

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\  
 Data File : BF095476.D  
 Acq On : 26 May 2017 23:24  
 Operator : SJ/MA  
 Sample : I3241-10 10X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

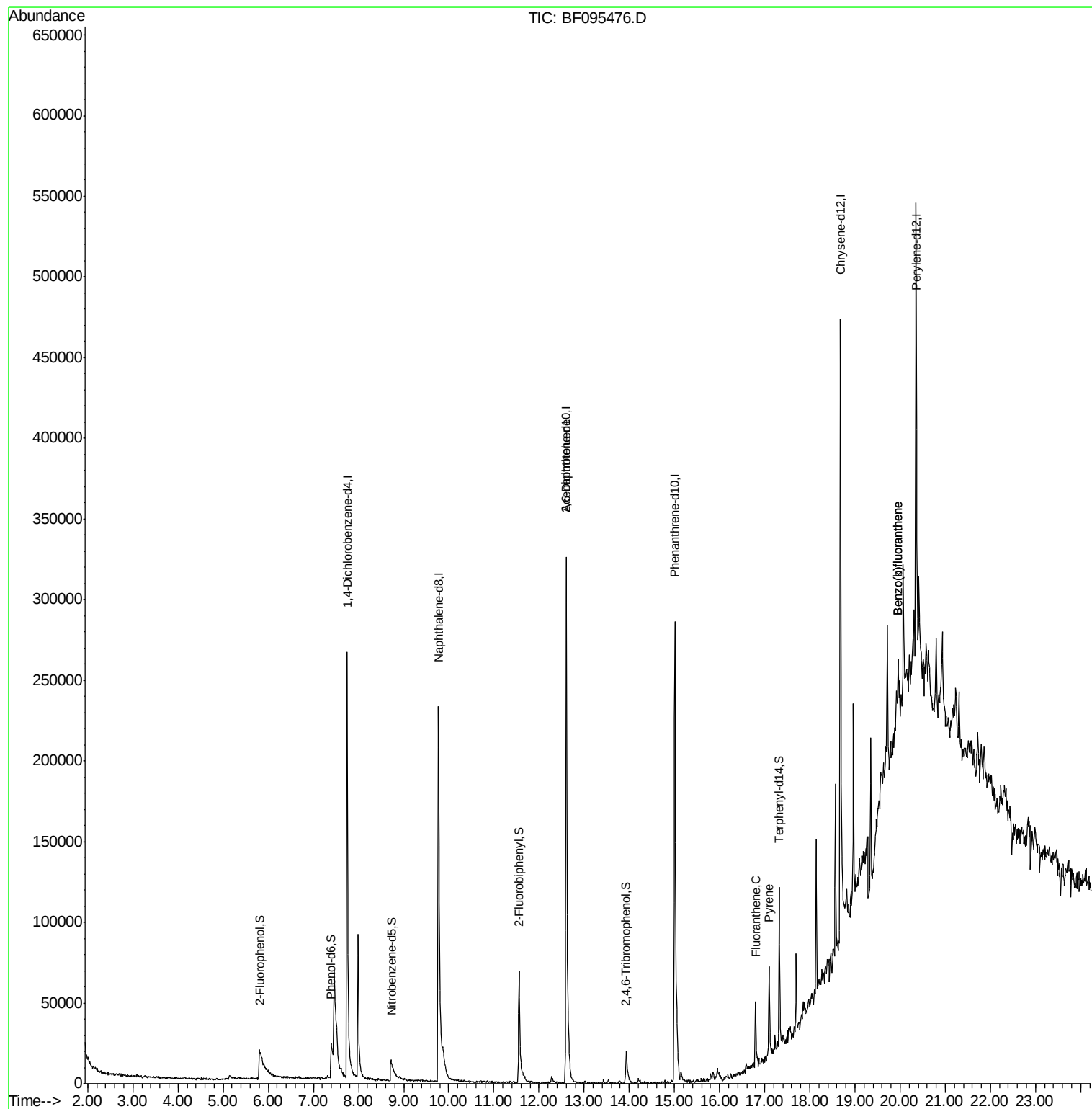
Quant Time: May 27 03:12:27 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 26 16:50:16 2017  
 Response via : Initial Calibration

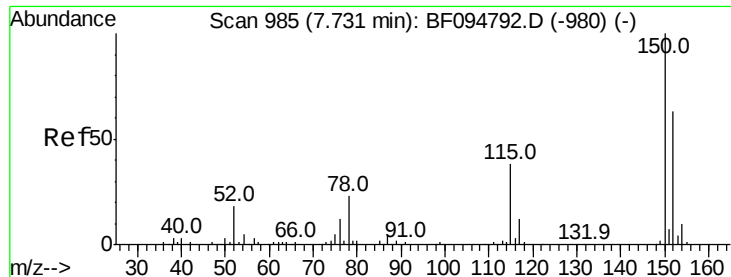
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.75  | 152  | 85010    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 9.77  | 136  | 336539   | 20.00 | ng    | 0.01     |
| 38) Acenaphthene-d10        | 12.60 | 164  | 144777   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 15.01 | 188  | 213053   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 18.68 | 240  | 194164   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 20.35 | 264  | 140982   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.81  | 112  | 36365    | 7.13  | ng    | 0.10     |
| 7) Phenol-d6                | 7.40  | 99   | 54358    | 8.89  | ng    | 0.11     |
| 23) Nitrobenzene-d5         | 8.72  | 82   | 24881    | 4.66  | ng    | 0.07     |
| 41) 2,4,6-Tribromophenol    | 13.94 | 330  | 9239     | 7.79  | ng    | 0.04     |
| 44) 2-Fluorobiphenyl        | 11.56 | 172  | 72330    | 7.19  | ng    | 0.02     |
| 78) Terphenyl-d14           | 17.32 | 244  | 46222    | 5.24  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 50) 2,6-Dinitrotoluene      | 12.60 | 165  | 14307    | 5.90  | ng    | # 31     |
| 74) Fluoranthene            | 16.79 | 202  | 34070    | 2.71  | ng    | 98       |
| 77) Pyrene                  | 17.09 | 202  | 34644    | 2.39  | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 19.95 | 252  | 19428    | 2.23  | ng    | # 69     |
| 88) Benzo(k)fluoranthene    | 19.95 | 252  | 19428    | 2.31  | ng    | # 73     |

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

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\  
Data File : BF095476.D  
Acq On : 26 May 2017 23:24  
Operator : SJ/MA  
Sample : I3241-10 10X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 27 03:12:27 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 26 16:50:16 2017  
Response via : Initial Calibration

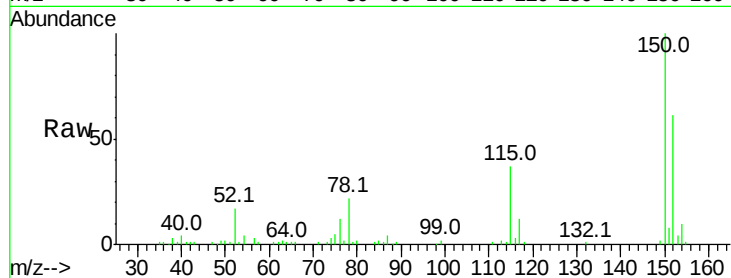




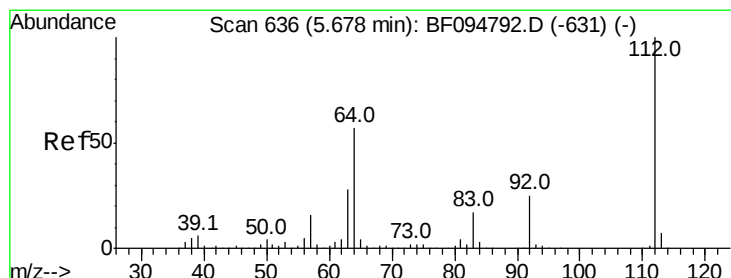
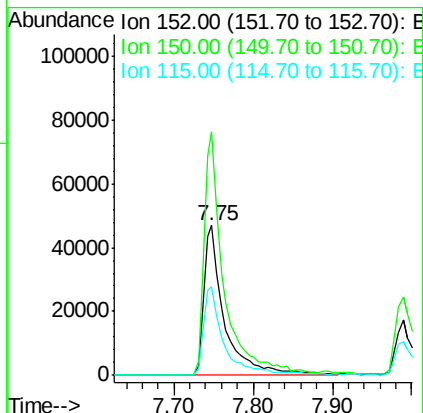
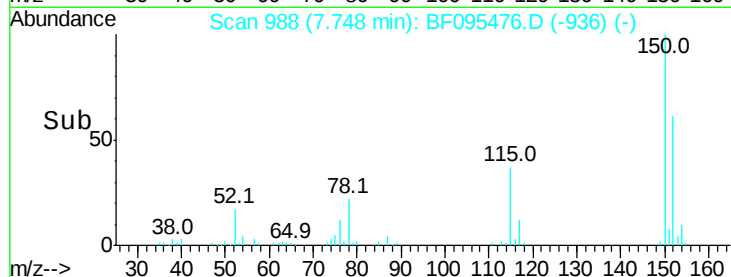
#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.75 min Scan# 988  
Delta R.T. 0.01 min  
Lab File: BF095476.D  
Acq: 26 May 2017 23:24

Tot Ion:152 Resp: 85010  
Ion Ratio Lower Upper  
152 100  
150 162.7 126.2 189.2  
115 59.5 52.2 78.2



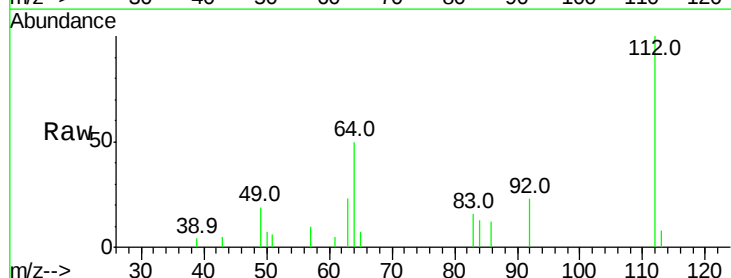
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



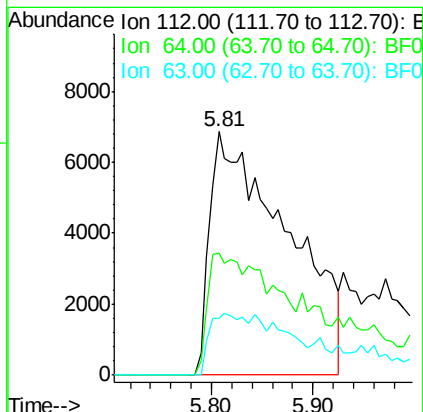
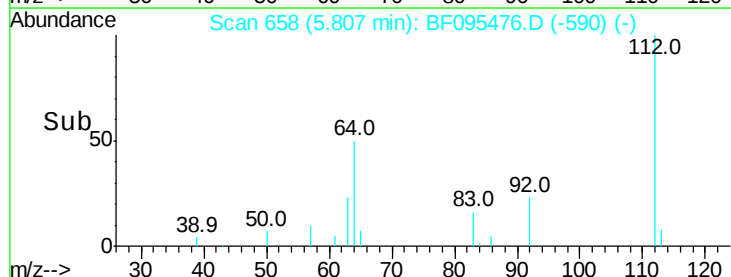
#5

2-Fluorophenol  
Concen: 7.13 ng  
RT: 5.81 min Scan# 658  
Delta R.T. 0.10 min  
Lab File: BF095476.D  
Acq: 26 May 2017 23:24

Tgt Ion:112 Resp: 36365  
Ion Ratio Lower Upper  
112 100  
64 50.2 46.0 69.0  
63 23.3 23.4 35.0#



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 8.89 ng

RT: 7.40 min Scan# 929

Delta R.T. 0.11 min

Lab File: BF095476.D

Acq: 26 May 2017 23:24

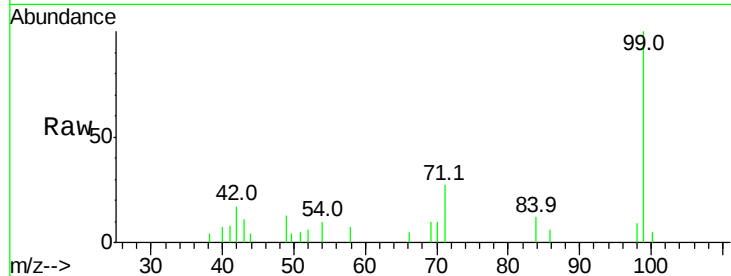
Tot Ion: 99 Resp: 54358

Ion Ratio Lower Upper

99 100

42 16.6 13.5 20.3

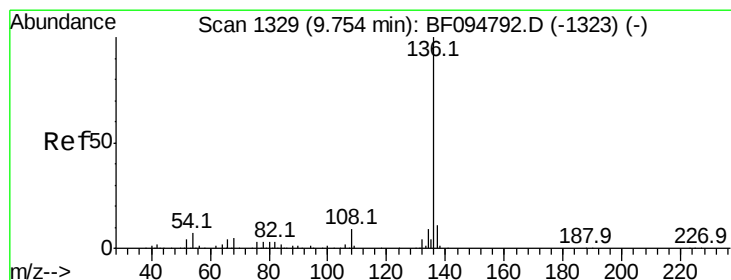
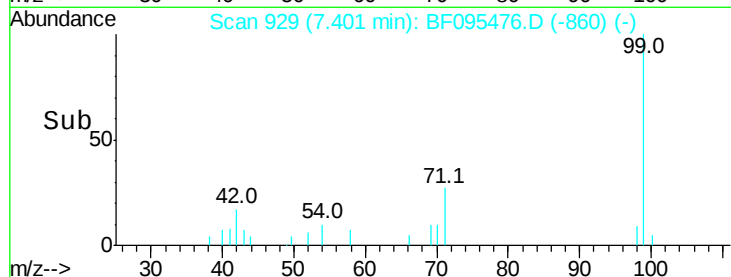
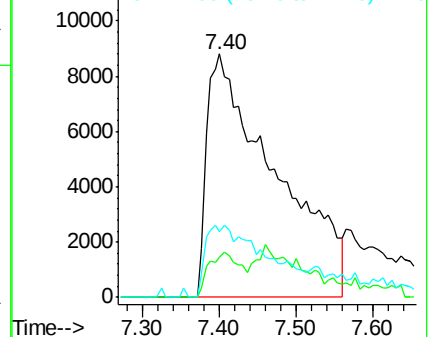
71 26.7 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.77 min Scan# 1332

Delta R.T. 0.01 min

Lab File: BF095476.D

Acq: 26 May 2017 23:24

Tgt Ion: 136 Resp: 336539

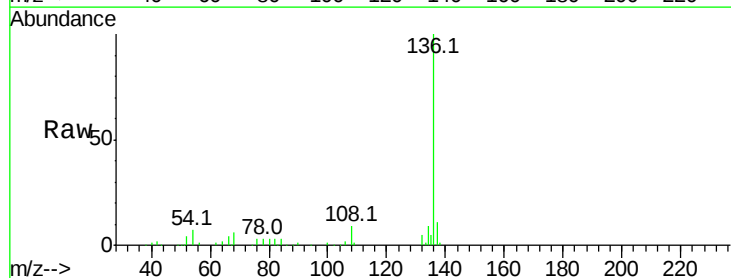
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 7.2 4.9 7.3

68 5.7 4.1 6.1

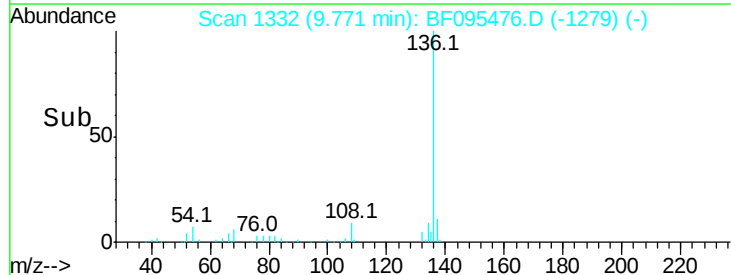
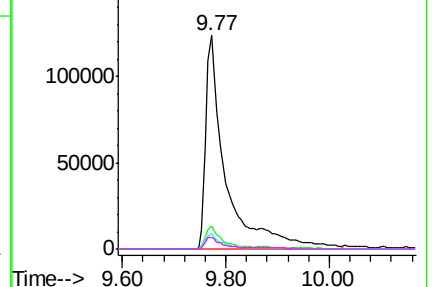


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 4.66 ng

RT: 8.72 min Scan# 1154

Delta R.T. 0.07 min

Lab File: BF095476.D

Acq: 26 May 2017 23:24

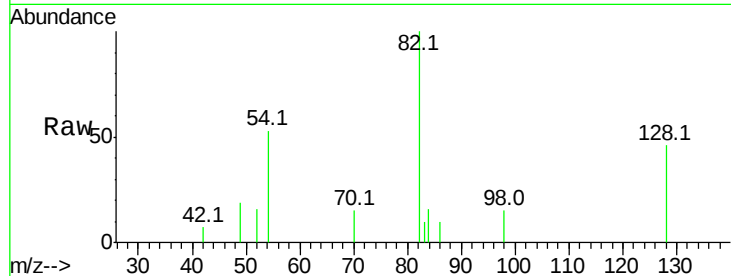
Tot Ion: 82 Resp: 24881

Ion Ratio Lower Upper

82 100

128 46.0 34.0 51.0

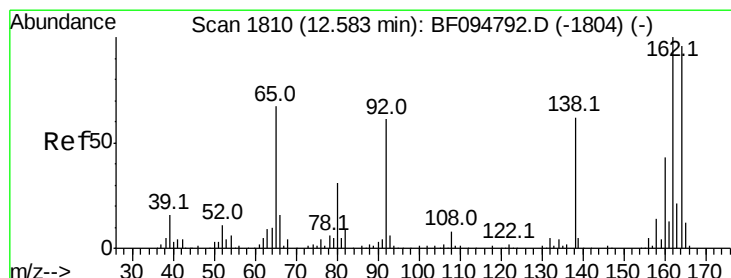
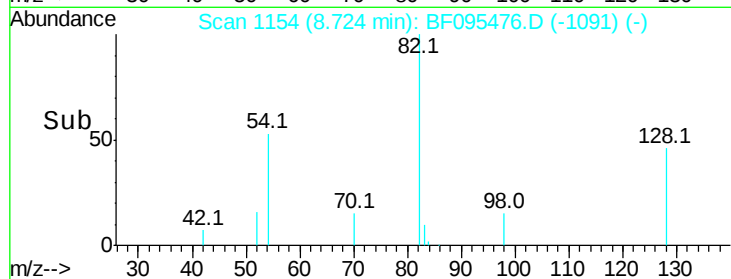
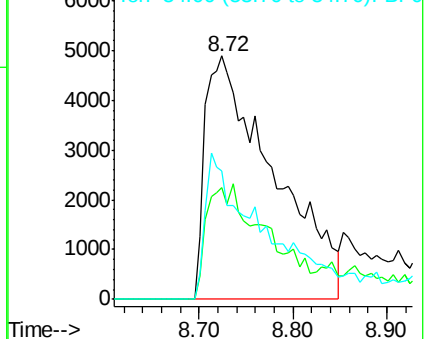
54 52.9 42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.60 min Scan# 1813

Delta R.T. 0.01 min

Lab File: BF095476.D

Acq: 26 May 2017 23:24

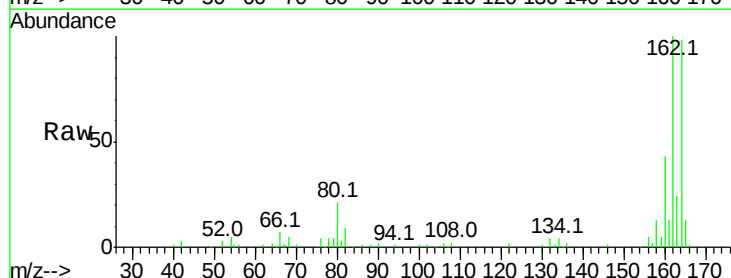
Tgt Ion:164 Resp: 144777

Ion Ratio Lower Upper

164 100

162 101.7 82.6 123.8

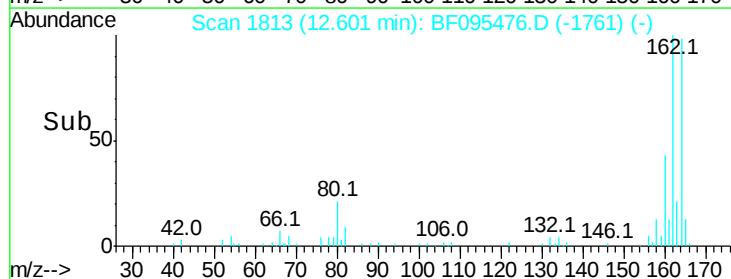
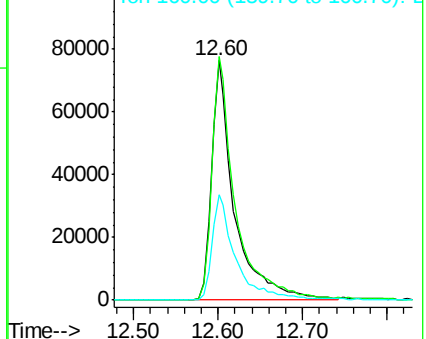
160 43.8 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

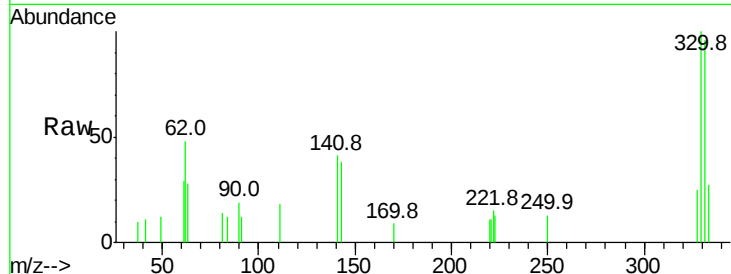
Ion 160.00 (159.70 to 160.70): E



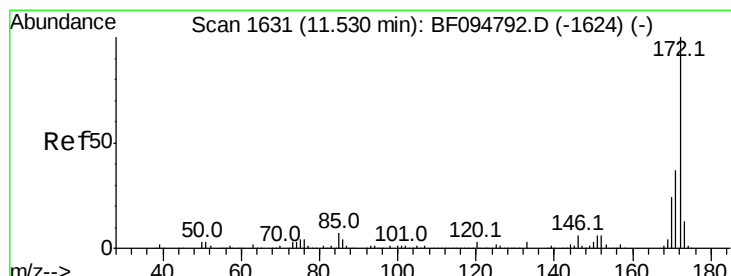
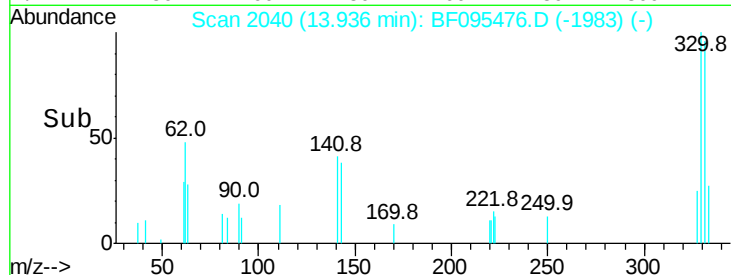
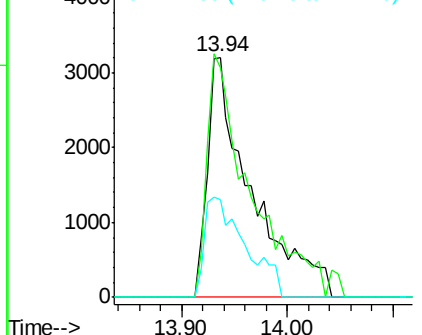


#41  
 2,4,6-Tribromophenol  
 Concen: 7.79 ng  
 RT: 13.94 min Scan# 2040  
 Delta R.T. 0.04 min  
 Lab File: BF095476.D  
 Acq: 26 May 2017 23:24

Tot Ion:330 Resp: 9239  
 Ion Ratio Lower Upper  
 330 100  
 332 100.1 76.6 115.0  
 141 33.6 31.4 47.2

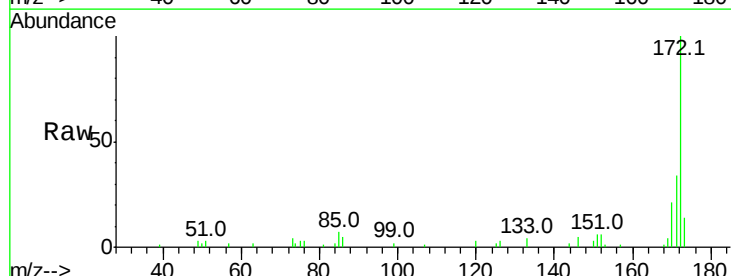


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

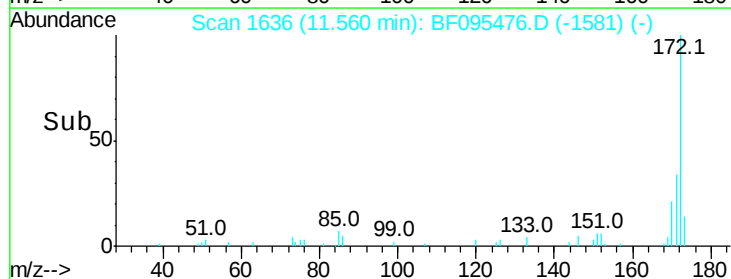
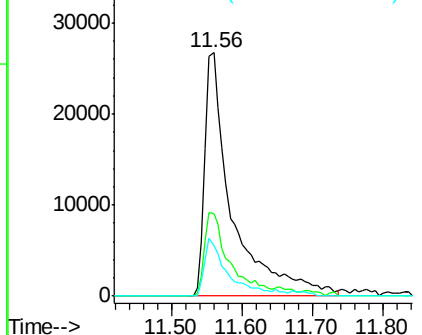


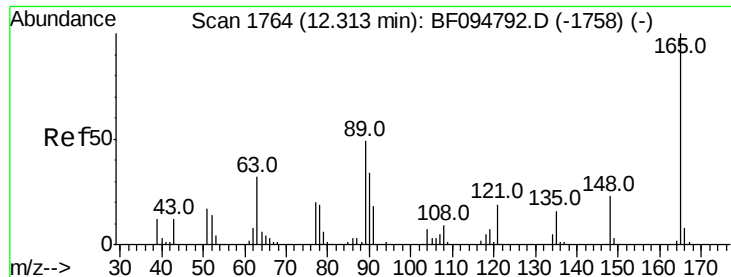
#44  
 2-Fluorobiphenyl  
 Concen: 7.19 ng  
 RT: 11.56 min Scan# 1636  
 Delta R.T. 0.02 min  
 Lab File: BF095476.D  
 Acq: 26 May 2017 23:24

Tgt Ion:172 Resp: 72330  
 Ion Ratio Lower Upper  
 172 100  
 171 33.9 29.6 44.4  
 170 20.9 19.8 29.8



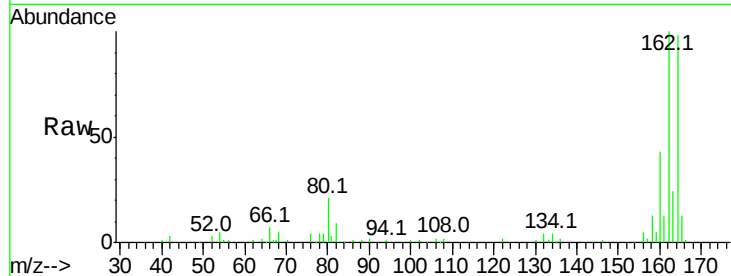
Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#50  
 2,6-Dinitrotoluene  
 Concen: 5.90 ng  
 RT: 12.60 min Scan# 1813  
 Delta R.T. 0.26 min  
 Lab File: BF095476.D  
 Acq: 26 May 2017 23:24

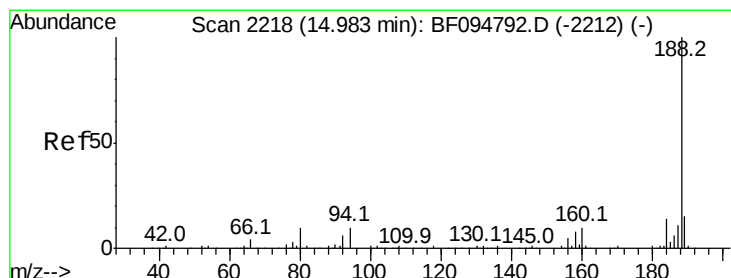
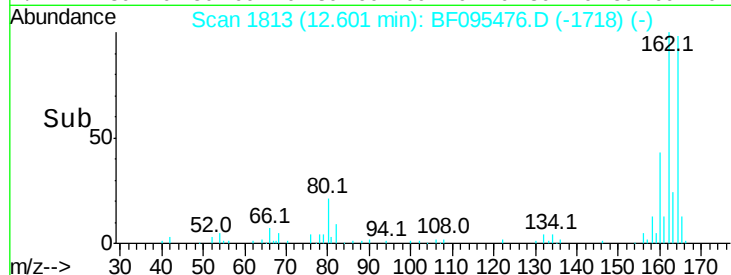
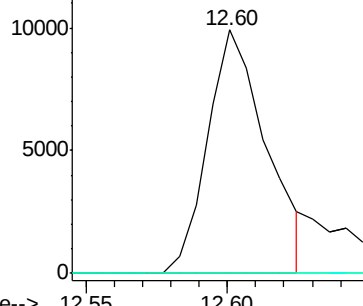
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 34.3  | 51.5# |
| 89      | 0.0   | 37.1  | 55.7# |



Abundance Ion 165.00 (164.70 to 165.70): E

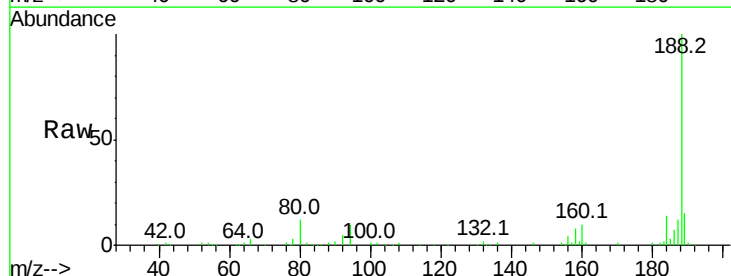
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 15.01 min Scan# 2222  
 Delta R.T. 0.01 min  
 Lab File: BF095476.D  
 Acq: 26 May 2017 23:24

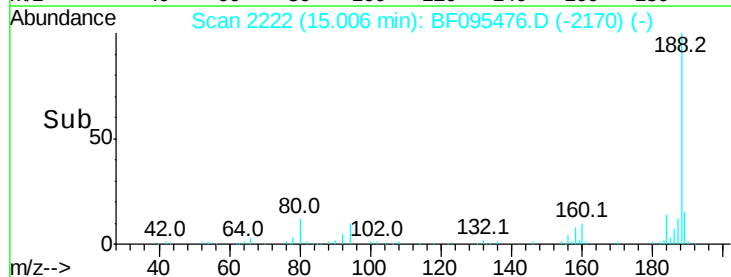
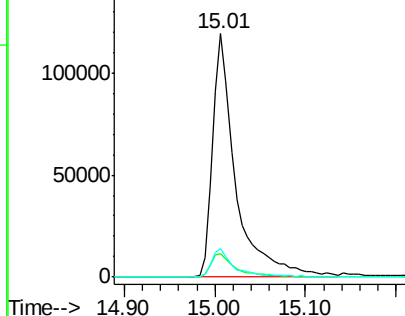
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.8   | 9.4   | 14.2  |
| 80      | 11.8  | 10.2  | 15.2  |

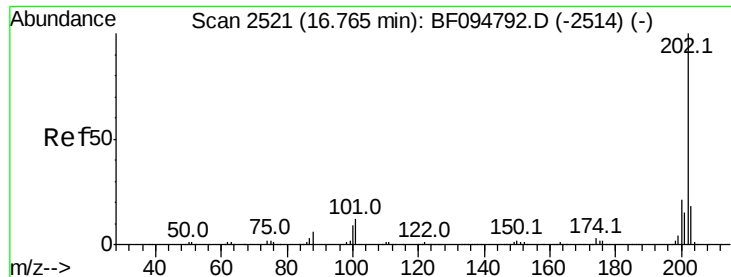


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

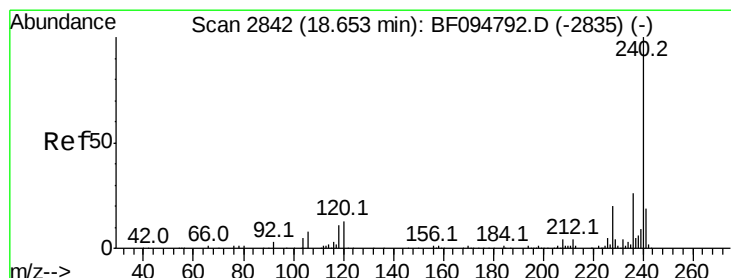
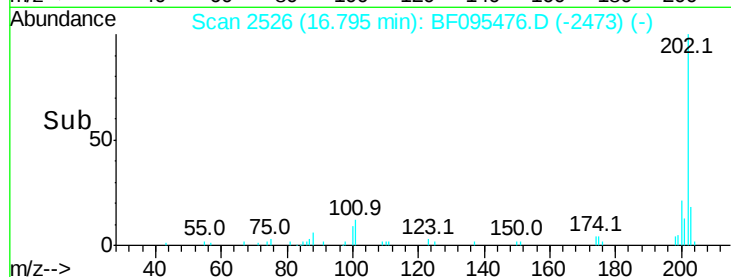
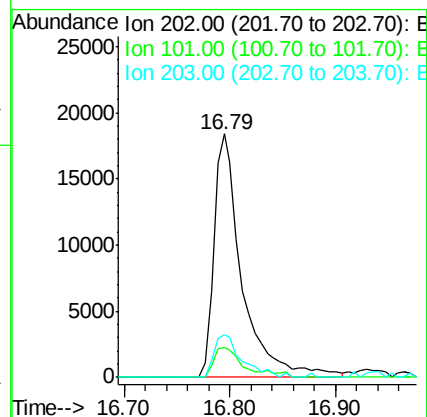
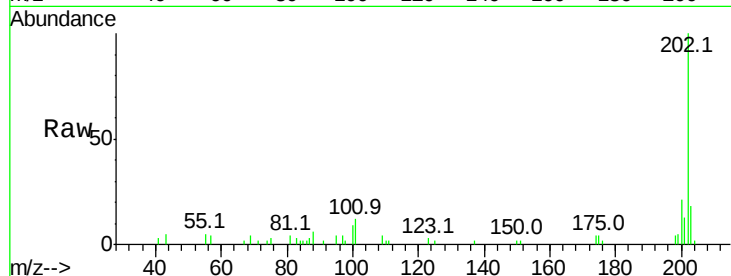
Ion 80.00 (79.70 to 80.70): BF0





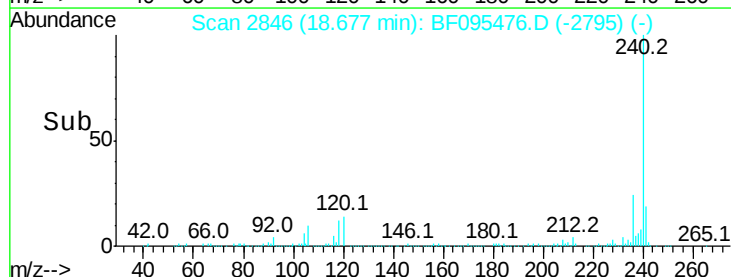
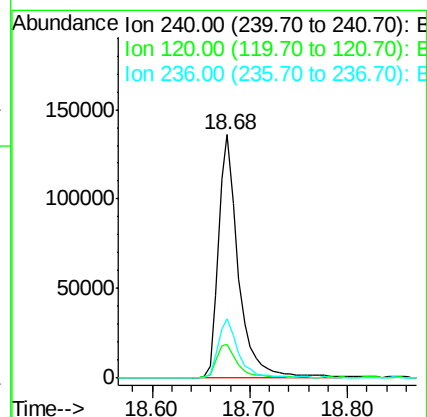
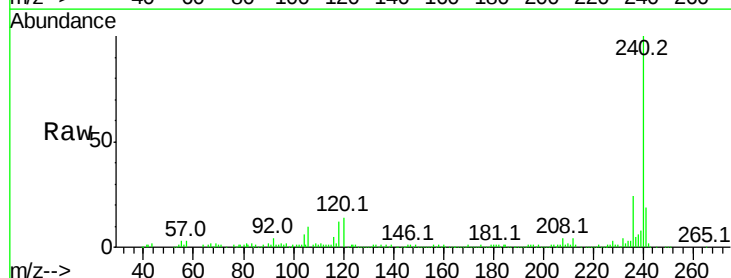
#74  
 Fluoranthene  
 Concen: 2.71 ng  
 RT: 16.79 min Scan# 2526  
 Delta R.T. 0.01 min  
 Lab File: BF095476.D  
 Acq: 26 May 2017 23:24

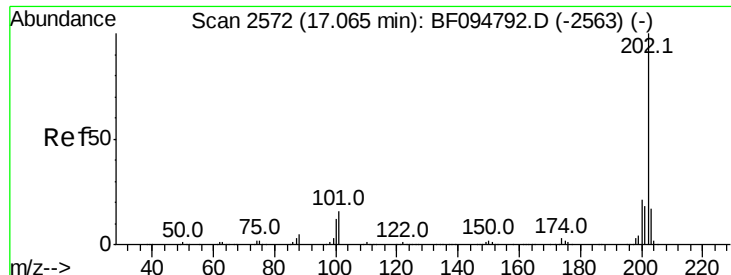
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.1  | 0.0   | 33.2  |
| 203     | 17.7  | 0.0   | 38.1  |



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 18.68 min Scan# 2846  
 Delta R.T. -0.00 min  
 Lab File: BF095476.D  
 Acq: 26 May 2017 23:24

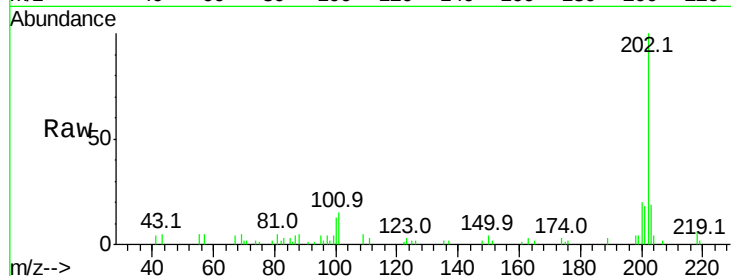
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 14.0  | 5.8   | 8.8#  |
| 236     | 24.5  | 20.5  | 30.7  |



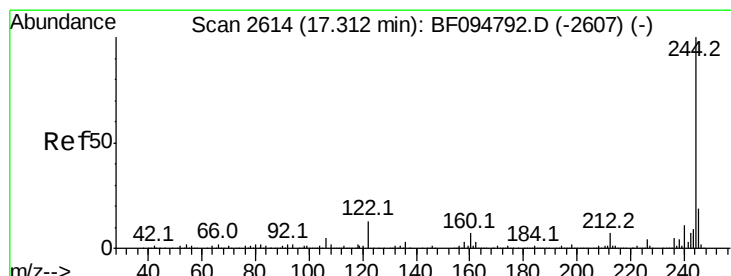
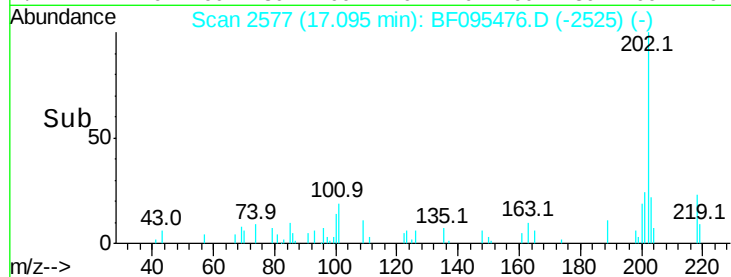
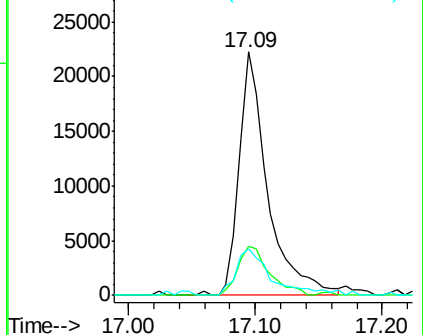


#77  
 Pvrene  
 Concen: 2.39 ng  
 RT: 17.09 min Scan# 2577  
 Delta R.T. 0.01 min  
 Lab File: BF095476.D  
 Acq: 26 May 2017 23:24

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.3  | 17.6  | 26.4  |
| 203     | 19.0  | 14.4  | 21.6  |

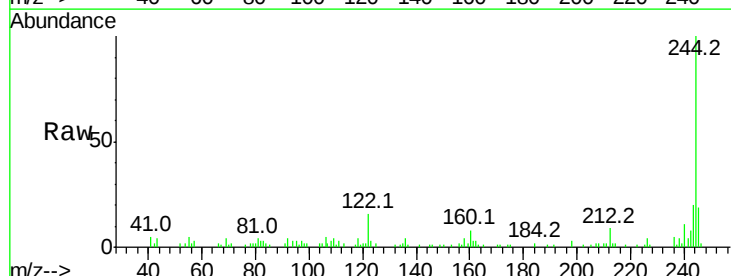


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E

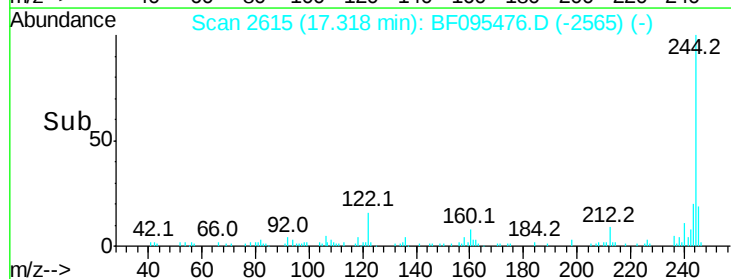
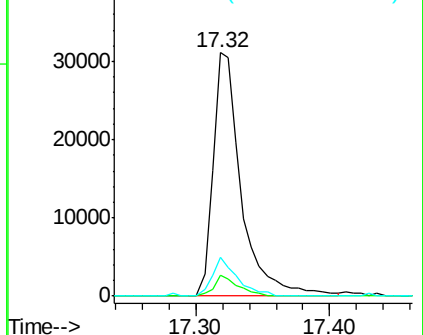


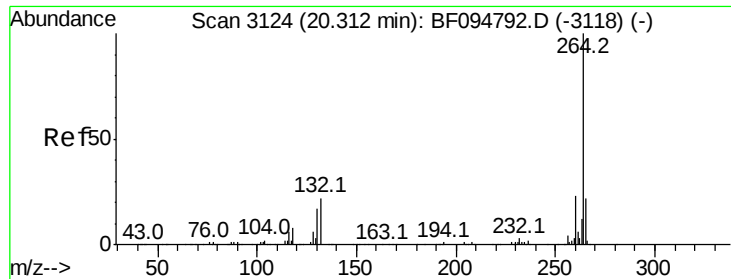
#78  
 Terphenyl-d14  
 Concen: 5.24 ng  
 RT: 17.32 min Scan# 2615  
 Delta R.T. -0.01 min  
 Lab File: BF095476.D  
 Acq: 26 May 2017 23:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.5   | 6.0   | 9.0   |
| 122     | 16.1  | 10.3  | 15.5  |



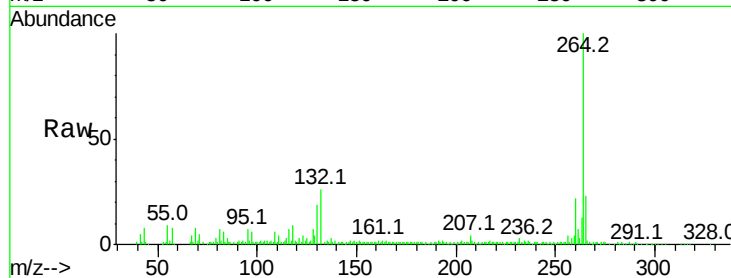
Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



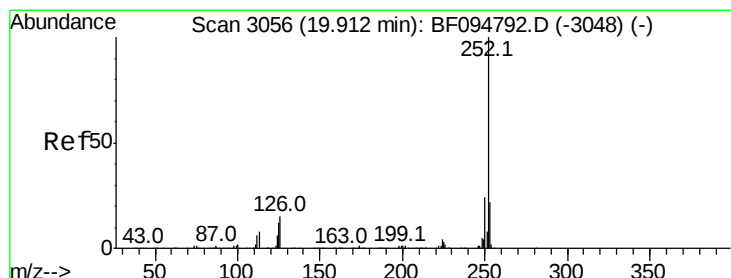
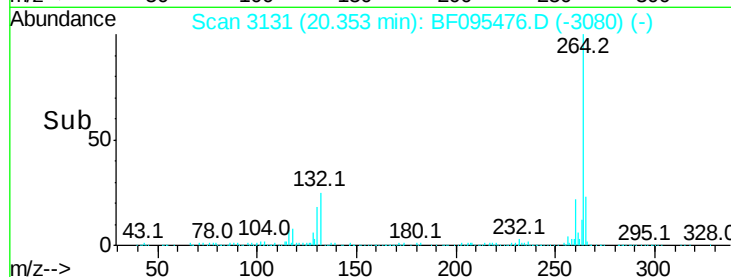
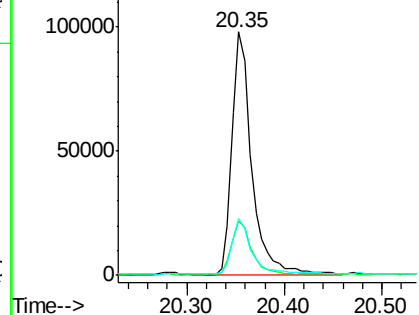


#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 20.35 min Scan# 3131  
Delta R.T. -0.00 min  
Lab File: BF095476.D  
Acq: 26 May 2017 23:24

|     |         |       |        |
|-----|---------|-------|--------|
| Tot | Ion:264 | Resp: | 140982 |
| Ion | Ratio   | Lower | Upper  |
| 264 | 100     |       |        |
| 260 | 22.4    | 19.5  | 29.3   |
| 265 | 23.2    | 17.2  | 25.8   |

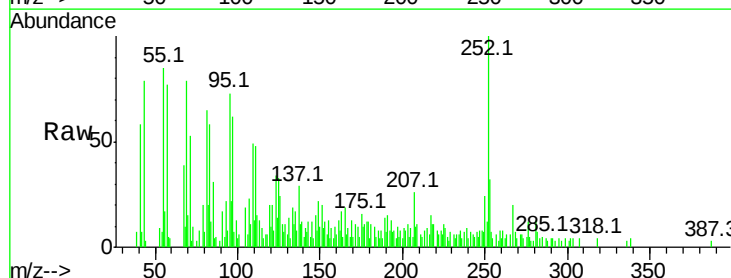


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

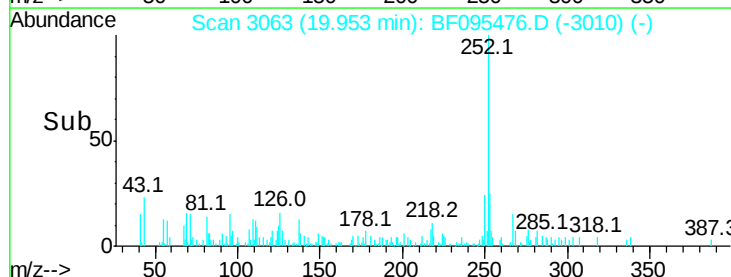
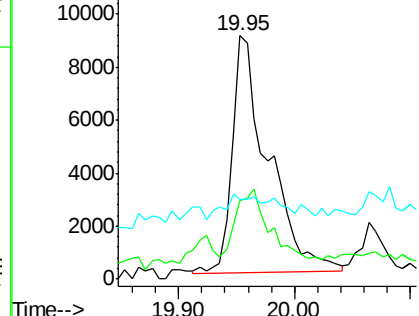


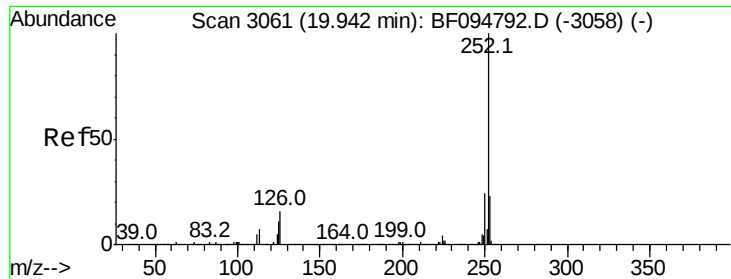
#87  
Benzo(b)fluoranthene  
Concen: 2.23 ng  
RT: 19.95 min Scan# 3063  
Delta R.T. 0.01 min  
Lab File: BF095476.D  
Acq: 26 May 2017 23:24

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:252 | Resp: | 19428 |
| Ion | Ratio   | Lower | Upper |
| 252 | 100     |       |       |
| 253 | 32.0    | 18.1  | 27.1# |
| 125 | 32.6    | 9.8   | 14.8# |



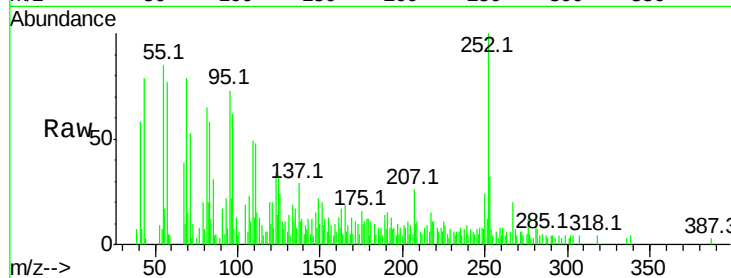
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#88  
 Benzo(k)fluoranthene  
 Concen: 2.31 ng  
 RT: 19.95 min Scan# 3063  
 Delta R.T. -0.02 min  
 Lab File: BF095476.D  
 Acq: 26 May 2017 23:24

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 32.0  | 18.4  | 27.6# |
| 125     | 32.6  | 13.1  | 19.7# |



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

