

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032217\  
 Data File : BF093843.D  
 Acq On : 22 Mar 2017 20:18  
 Operator : SJ/MA  
 Sample : I2296-01  
 Misc : LOD 8 PPB  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOD-SOIL-01-QT2-2017

Quant Time: Mar 23 13:16:34 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 23 02:02:22 2017  
 Response via : Initial Calibration

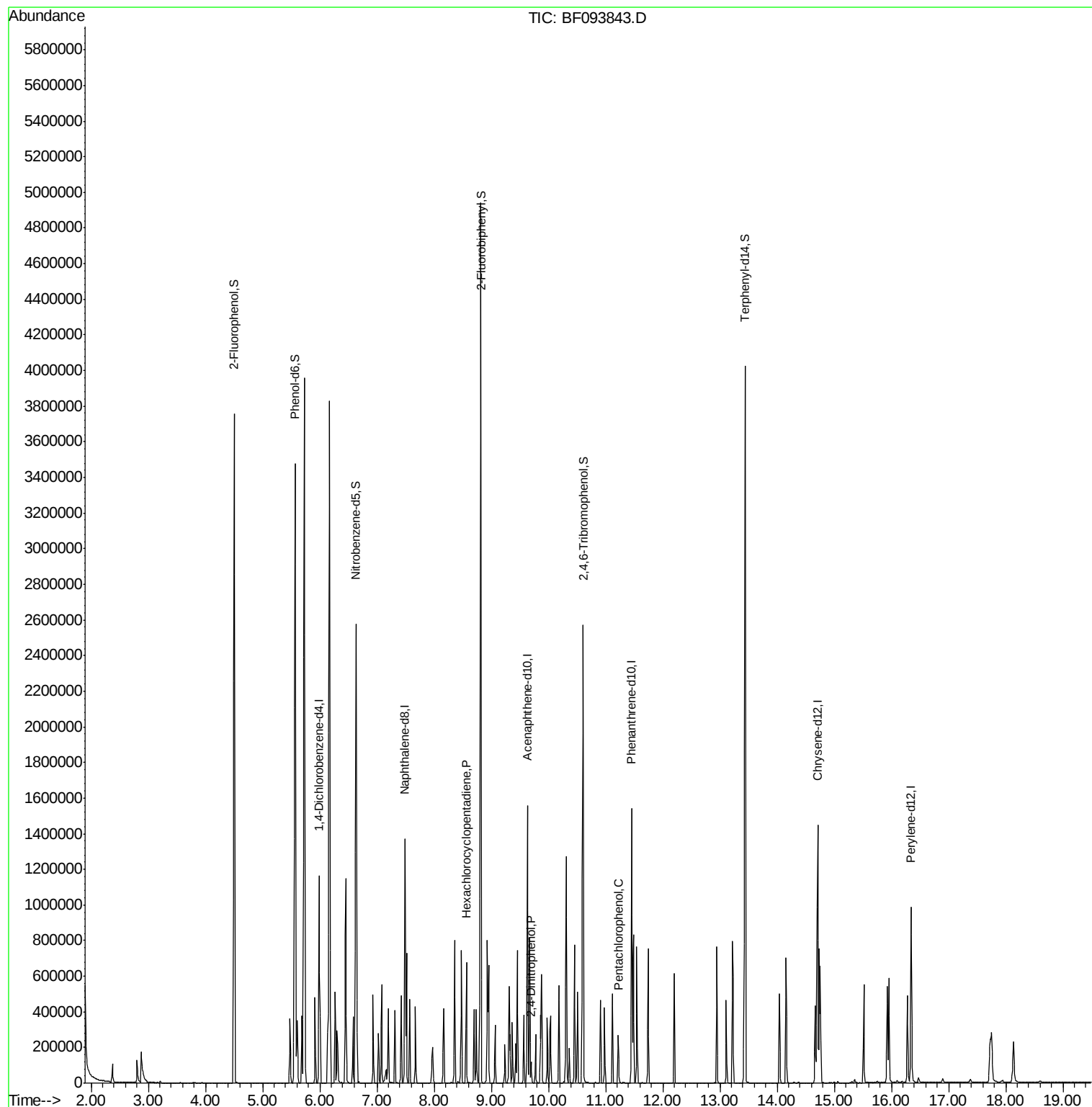
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4     | 5.99  | 152  | 180409   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8            | 7.49  | 136  | 743984   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10          | 9.63  | 164  | 334832   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10          | 11.46 | 188  | 587926   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12              | 14.71 | 240  | 499136   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12              | 16.34 | 264  | 405731   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds   |       |      |          |        |       |          |
| 5) 2-Fluorophenol             | 4.50  | 112  | 1391082  | 130.23 | ng    | 0.00     |
| 7) Phenol-d6                  | 5.57  | 99   | 1705698  | 129.08 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 6.63  | 82   | 1191148  | 91.37  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol      | 10.60 | 330  | 364889   | 137.91 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl          | 8.82  | 172  | 2063063  | 93.98  | ng    | 0.00     |
| 78) Terphenyl-d14             | 13.44 | 244  | 1725437  | 77.48  | ng    | 0.00     |
| Target Compounds              |       |      |          |        |       |          |
| 40) Hexachlorocyclopentadiene | 8.56  | 237  | 37747    | 8.81   | ng    | 99       |
| 53) 2,4-Dinitrophenol         | 9.70  | 184  | 12822    | 8.80   | ng    | # 81     |
| 69) Pentachlorophenol         | 11.22 | 266  | 27753    | 7.62   | ng    | 98       |

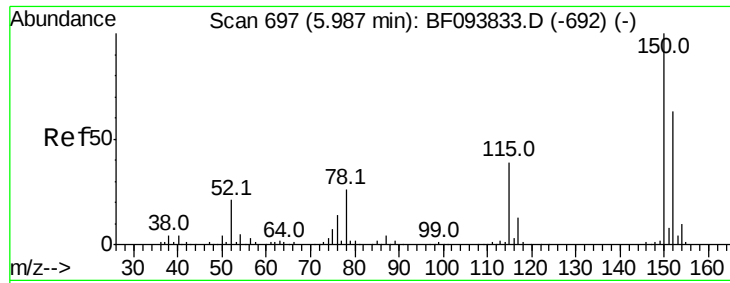
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032217\  
Data File : BF093843.D  
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Misc : LOD 8 PPB  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
LOD-SOIL-01-QT2-2017

Quant Time: Mar 23 13:16:34 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 23 02:02:22 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.99 min Scan# 697

Delta R.T. 0.00 min

Lab File: BF093843.D

Acq: 22 Mar 2017 20:18

Instrument :

BNA\_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

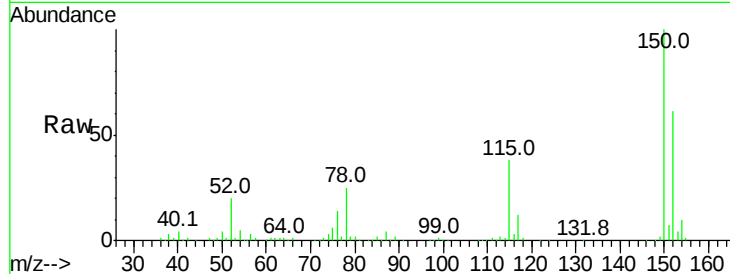
Tot Ion:152 Resp: 180409

Ion Ratio Lower Upper

152 100

150 163.3 126.2 189.2

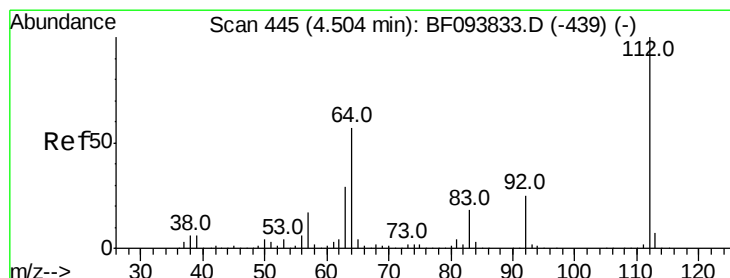
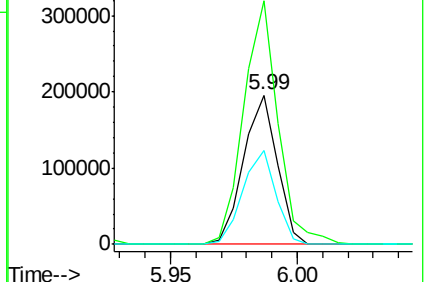
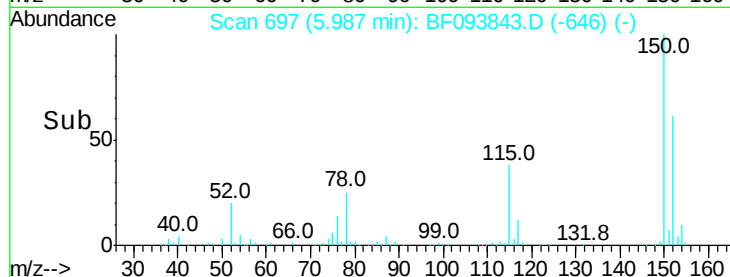
115 62.6 52.2 78.2



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: 130.23 ng

RT: 4.50 min Scan# 445

Delta R.T. 0.00 min

Lab File: BF093843.D

Acq: 22 Mar 2017 20:18

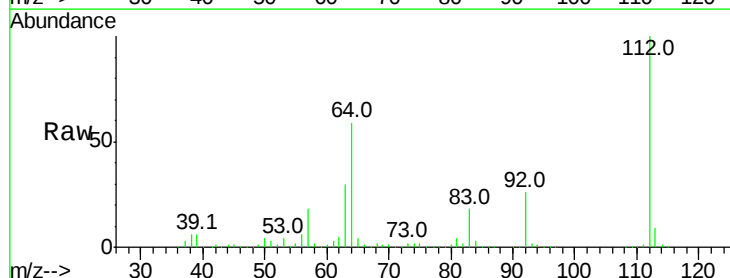
Tgt Ion:112 Resp: 1391082

Ion Ratio Lower Upper

112 100

64 59.1 46.0 69.0

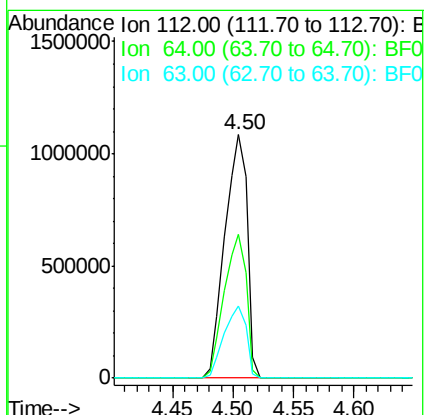
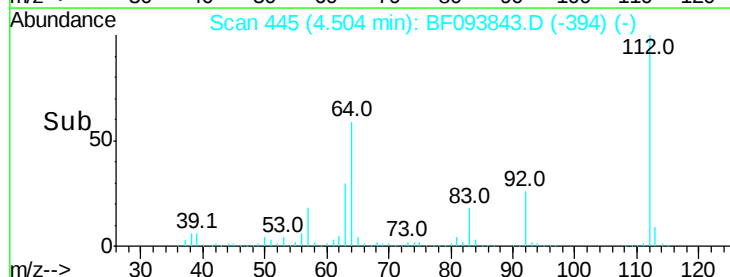
63 29.8 23.4 35.0

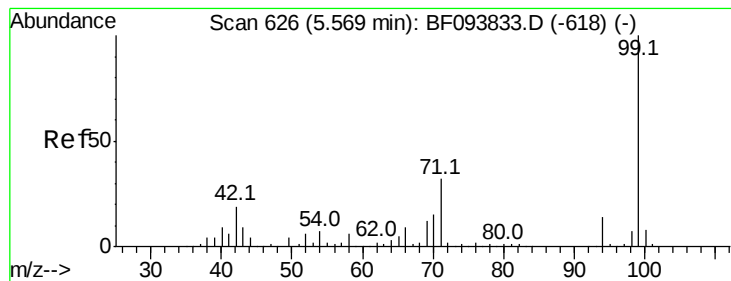


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 129.08 ng

RT: 5.57 min Scan# 626

Delta R.T. 0.00 min

Lab File: BF093843.D

Acq: 22 Mar 2017 20:18

Instrument :

BNA\_F

ClientSampleId :

LOD-SOIL-01-QT2-2017

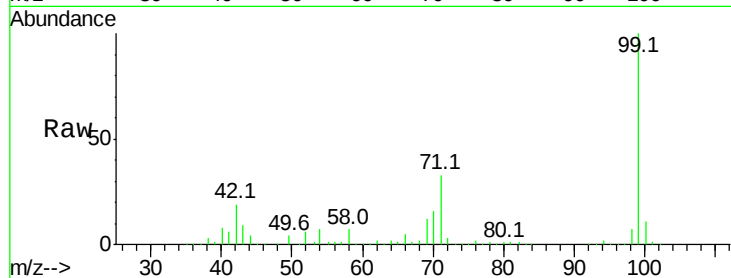
Tot Ion: 99 Resp: 1705698

Ion Ratio Lower Upper

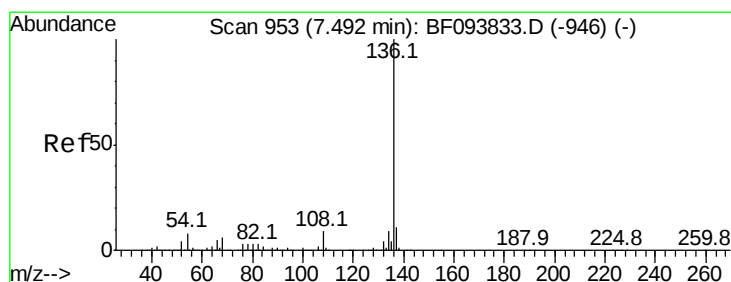
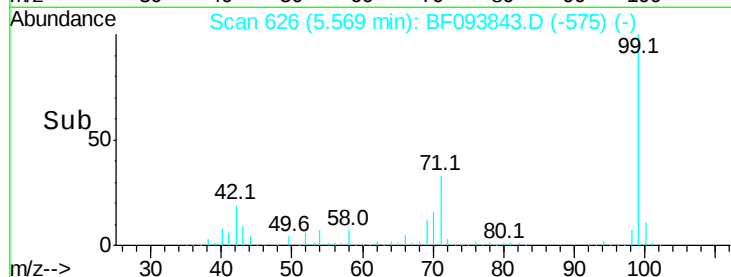
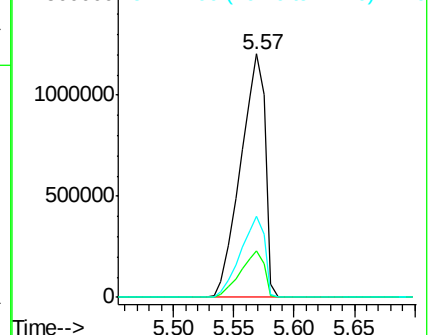
99 100

42 19.0 13.5 20.3

71 33.2 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: 7.49 min Scan# 953

Delta R.T. 0.00 min

Lab File: BF093843.D

Acq: 22 Mar 2017 20:18

Tgt Ion:136 Resp: 743984

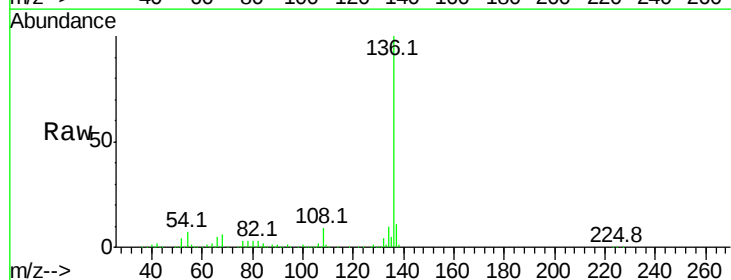
Ion Ratio Lower Upper

136 100

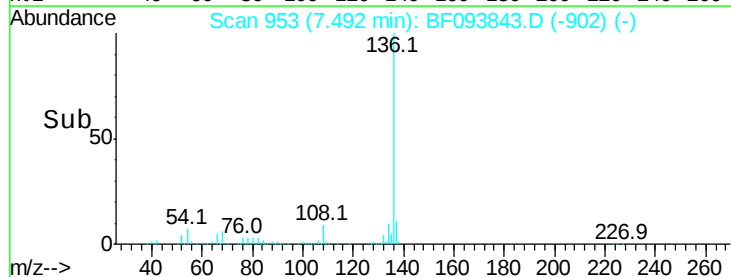
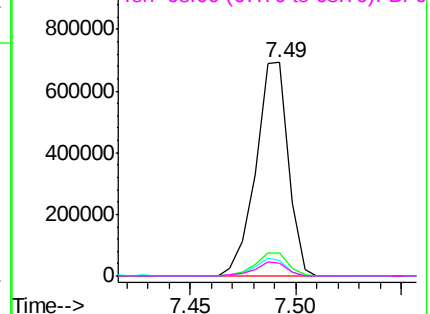
137 10.6 8.5 12.7

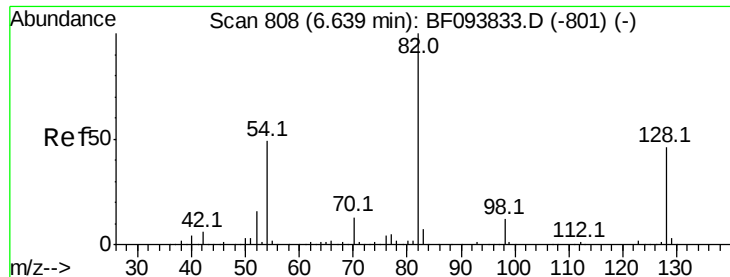
54 7.3 4.9 7.3#

68 5.9 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



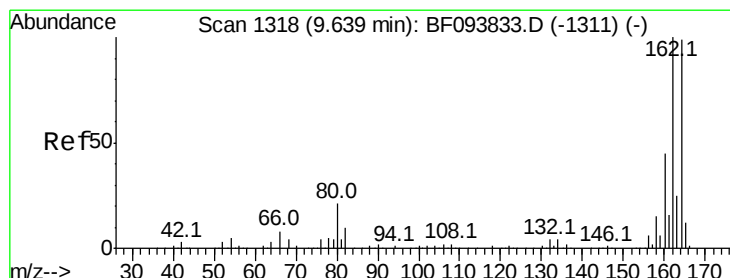
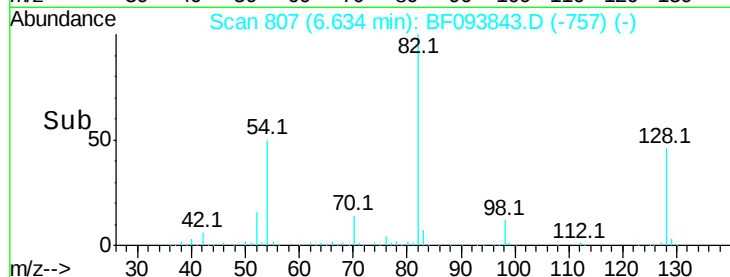
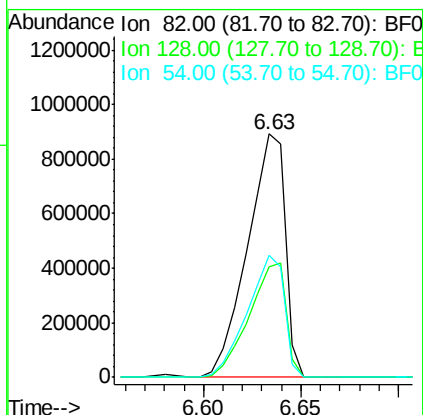
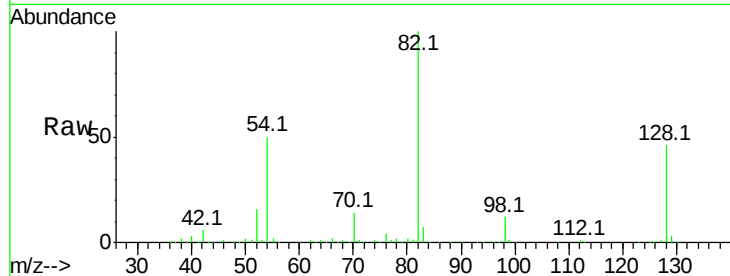


#23  
 Nitrobenzene-d5  
 Concen: 91.37 ng  
 RT: 6.63 min Scan# 807  
 Delta R.T. -0.01 min  
 Lab File: BF093843.D  
 Acq: 22 Mar 2017 20:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOD-SOIL-01-QT2-2017

Tot Ion: 82 Resp: 1191148  

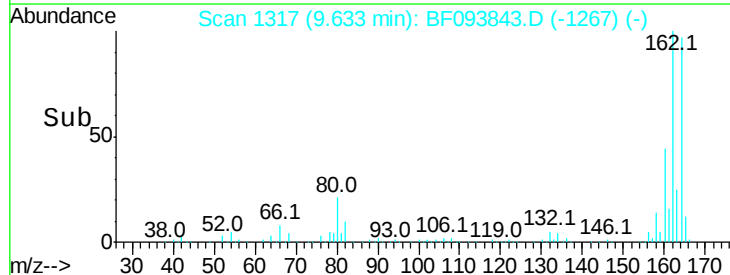
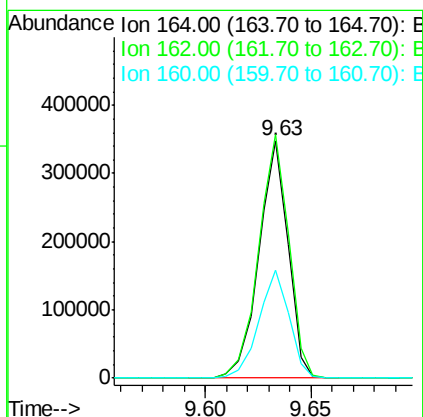
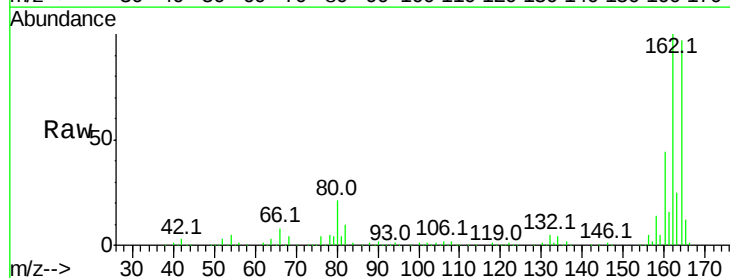
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 45.5  | 34.0  | 51.0  |
| 54  | 50.0  | 42.2  | 63.2  |

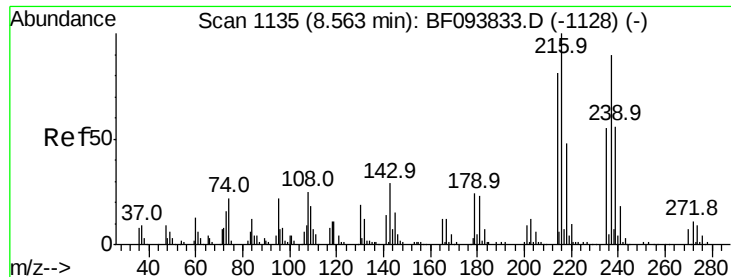


#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.63 min Scan# 1317  
 Delta R.T. -0.01 min  
 Lab File: BF093843.D  
 Acq: 22 Mar 2017 20:18

Tgt Ion:164 Resp: 334832  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 102.6 | 82.6  | 123.8 |
| 160 | 45.4  | 36.2  | 54.2  |

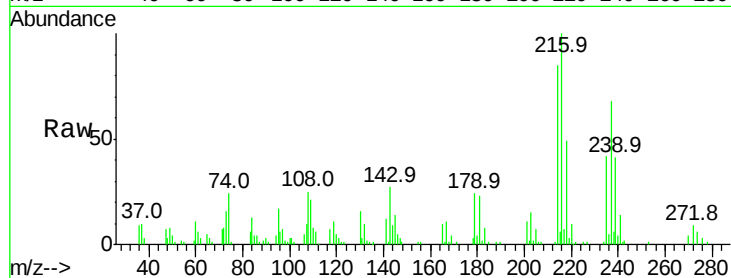




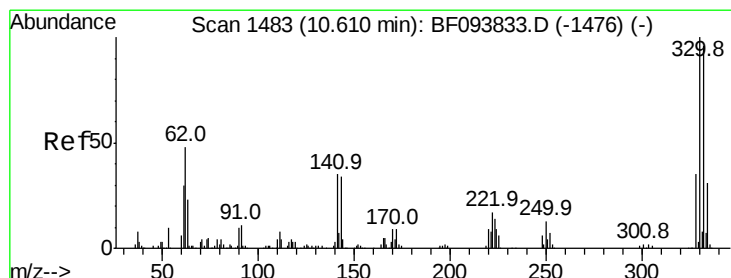
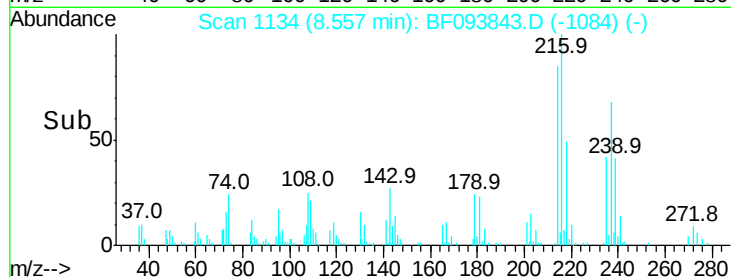
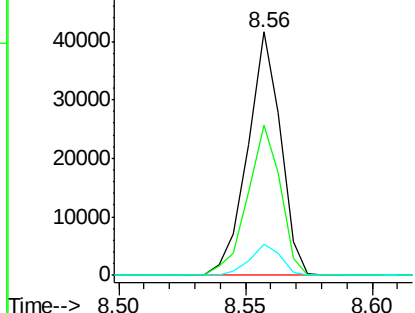
#40  
Hexachlorocyclopentadiene  
Concen: 8.81 ng  
RT: 8.56 min Scan# 1134  
Delta R.T. -0.01 min  
Lab File: BF093843.D  
Acq: 22 Mar 2017 20:18

Instrument :  
BNA\_F  
ClientSampleId :  
LOD-SOIL-01-QT2-2017

Tot Ion:237 Resp: 37747  
Ion Ratio Lower Upper  
237 100  
235 61.7 42.6 82.6  
272 13.0 0.0 31.9

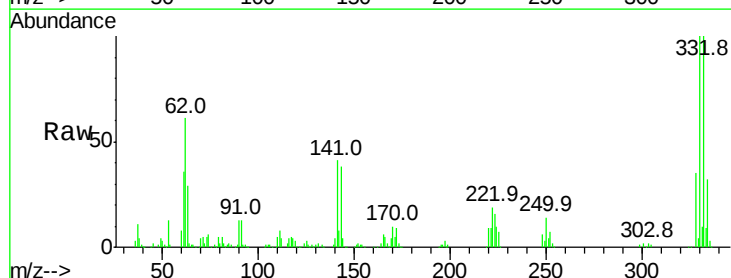


Abundance Ion 236.80 (236.50 to 237.50): E  
Ion 234.90 (234.60 to 235.60): E  
Ion 271.75 (271.45 to 272.45): E

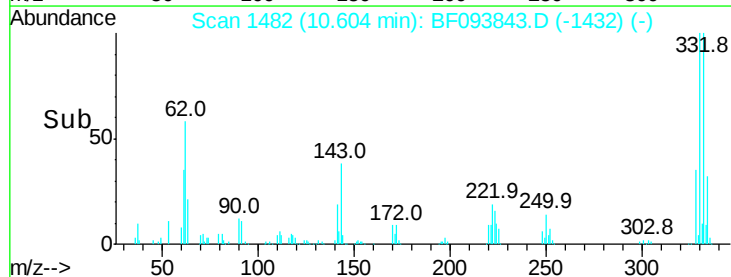
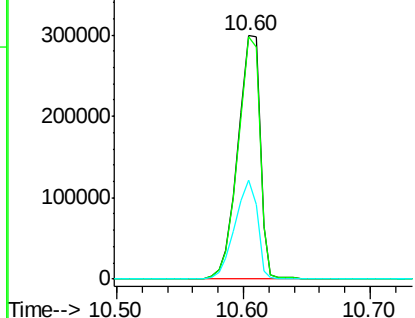


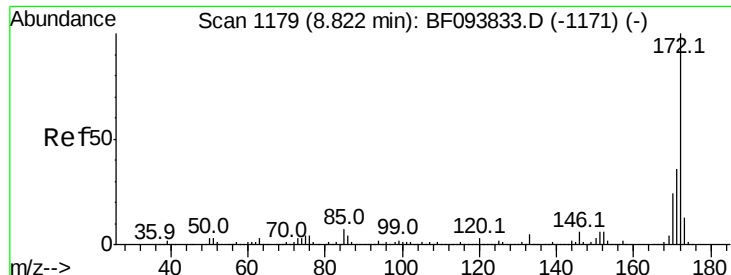
#41  
2,4,6-Tribromophenol  
Concen: 137.91 ng  
RT: 10.60 min Scan# 1482  
Delta R.T. -0.01 min  
Lab File: BF093843.D  
Acq: 22 Mar 2017 20:18

Tgt Ion:330 Resp: 364889  
Ion Ratio Lower Upper  
330 100  
332 98.0 76.6 115.0  
141 40.9 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



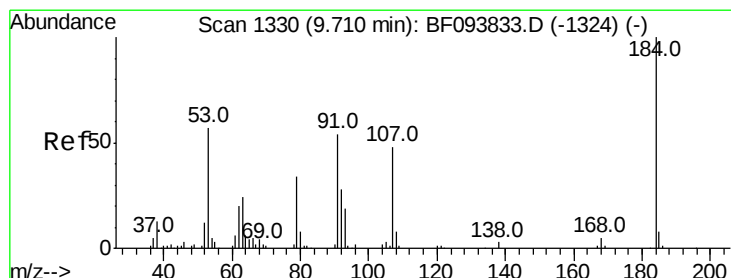
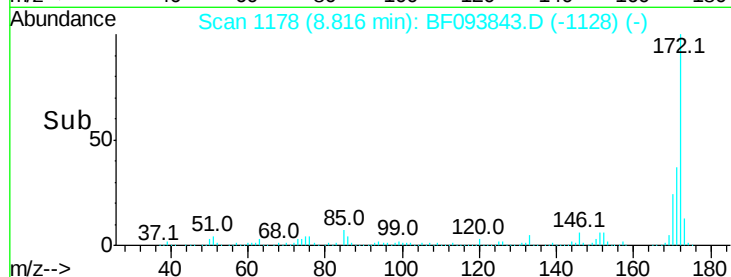
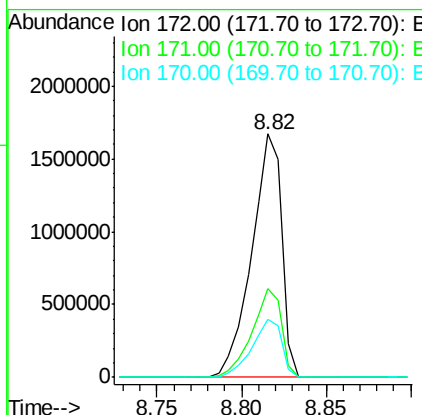
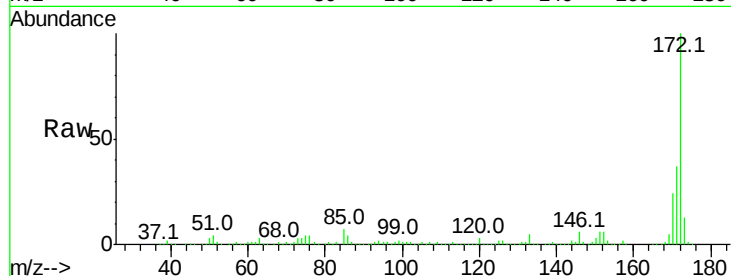


#44  
 2-Fluorobiphenyl  
 Concen: 93.98 ng  
 RT: 8.82 min Scan# 1178  
 Delta R.T. -0.01 min  
 Lab File: BF093843.D  
 Acq: 22 Mar 2017 20:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOD-SOIL-01-QT2-2017

Tot Ion:172 Resp: 2063063  

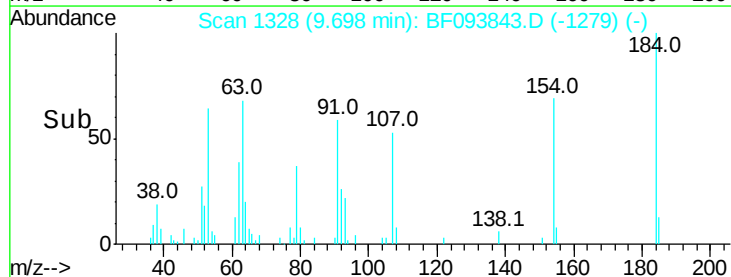
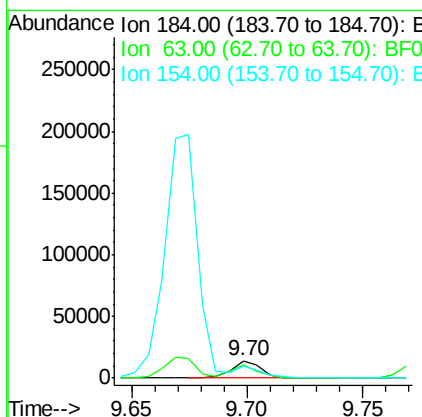
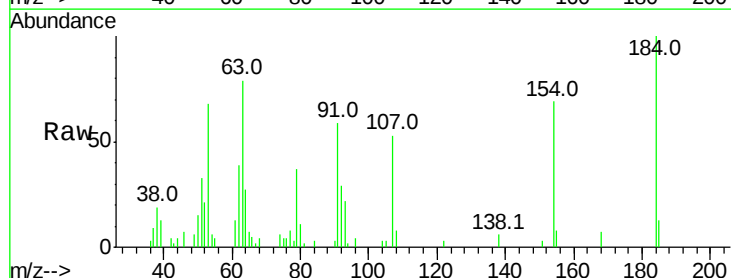
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.5  | 29.6  | 44.4  |
| 170 | 24.1  | 19.8  | 29.8  |

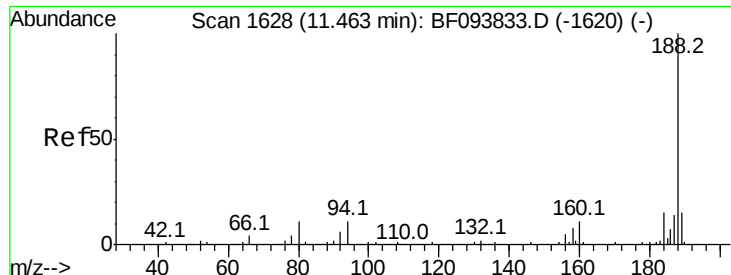


#53  
 2,4-Dinitrophenol  
 Concen: 8.80 ng  
 RT: 9.70 min Scan# 1328  
 Delta R.T. -0.01 min  
 Lab File: BF093843.D  
 Acq: 22 Mar 2017 20:18

Tgt Ion:184 Resp: 12822  

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 184 | 100   |       |        |
| 63  | 79.1  | 62.7  | 94.1   |
| 154 | 68.6  | 81.1  | 121.7# |

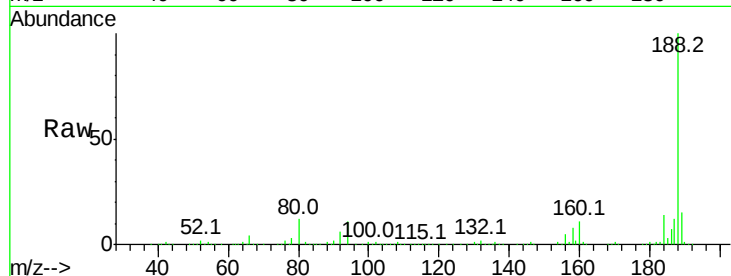




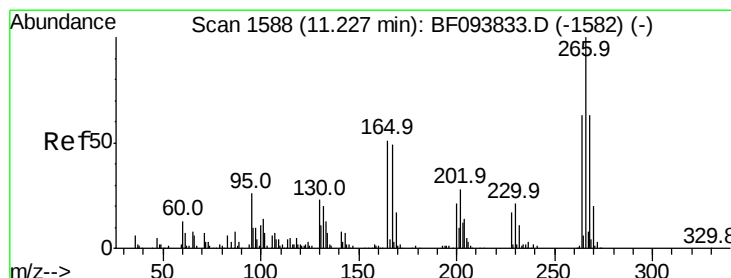
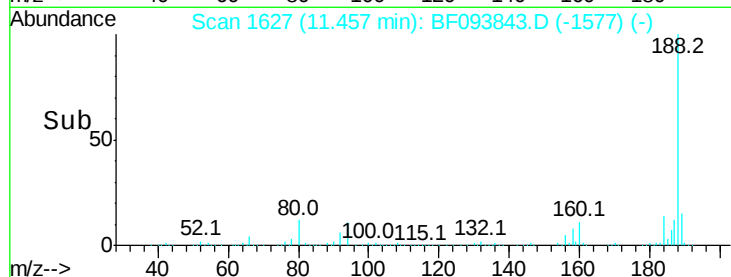
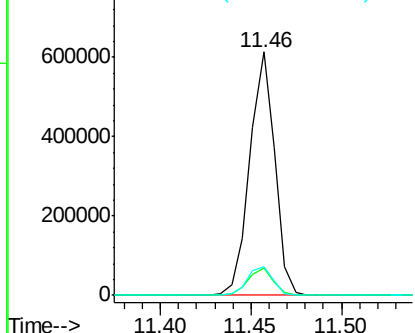
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.46 min Scan# 1627  
Delta R.T. -0.01 min  
Lab File: BF093843.D  
Acq: 22 Mar 2017 20:18

Instrument :  
BNA\_F  
ClientSampleId :  
LOD-SOIL-01-QT2-2017

Tot Ion:188 Resp: 587926  
Ion Ratio Lower Upper  
188 100  
94 11.2 9.4 14.2  
80 11.9 10.2 15.2

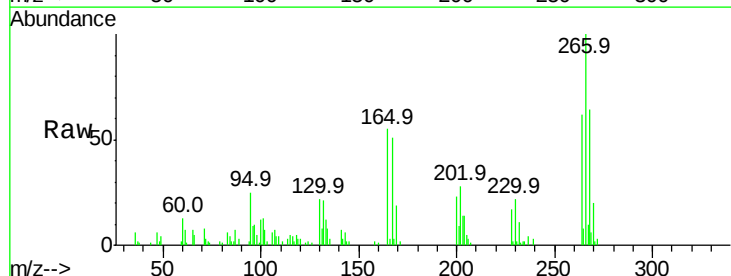


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

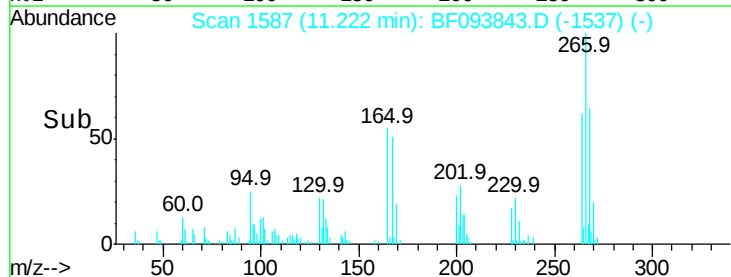
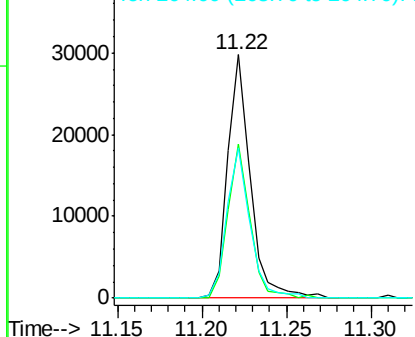


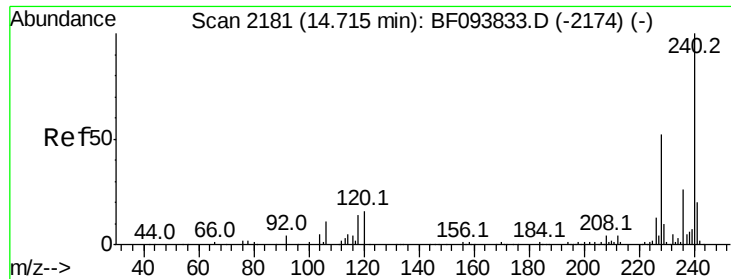
#69  
Pentachlorophenol  
Concen: 7.62 ng  
RT: 11.22 min Scan# 1587  
Delta R.T. -0.01 min  
Lab File: BF093843.D  
Acq: 22 Mar 2017 20:18

Tgt Ion:266 Resp: 27753  
Ion Ratio Lower Upper  
266 100  
268 63.5 51.1 76.7  
264 61.6 51.7 77.5



Abundance Ion 265.70 (265.40 to 266.40): E  
Ion 268.00 (267.70 to 268.70): E  
Ion 264.00 (263.70 to 264.70): E

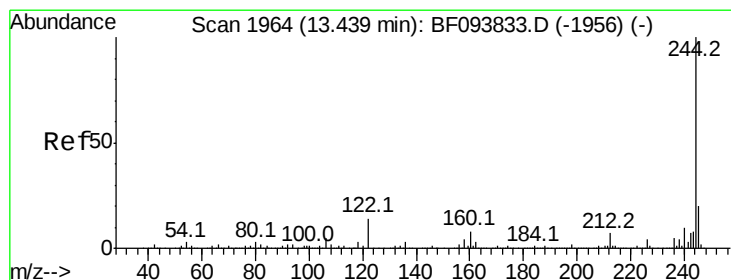
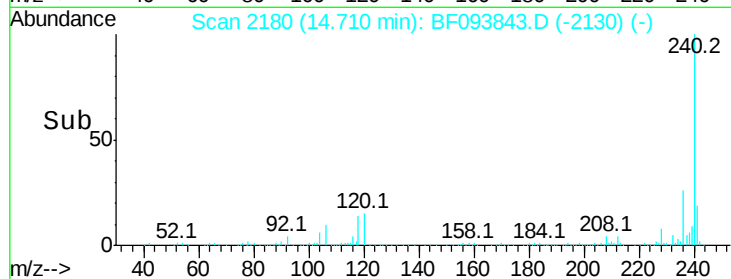
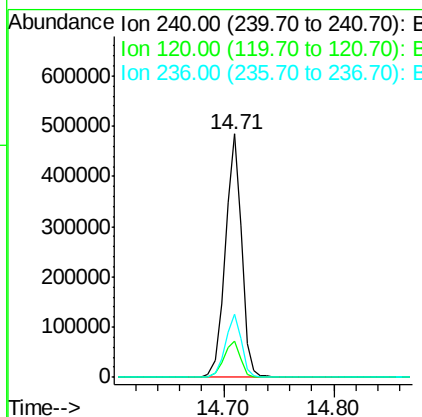
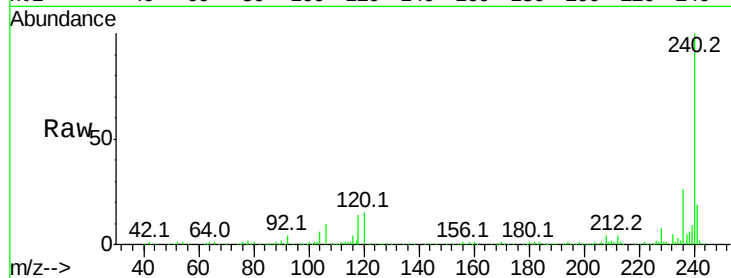




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.71 min Scan# 2180  
 Delta R.T. -0.01 min  
 Lab File: BF093843.D  
 Acq: 22 Mar 2017 20:18

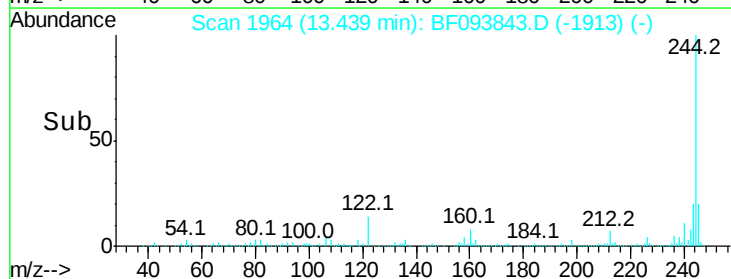
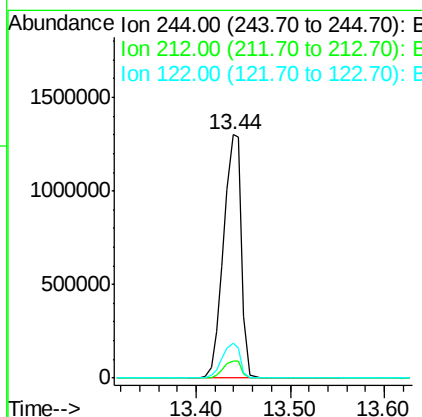
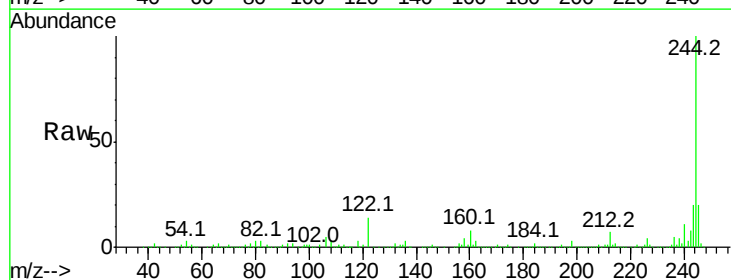
Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOD-SOIL-01-QT2-2017

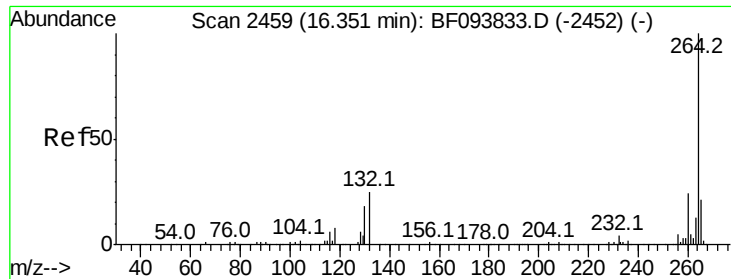
Tot Ion:240 Resp: 499136  
 Ion Ratio Lower Upper  
 240 100  
 120 15.0 5.8 8.8#  
 236 26.1 20.5 30.7



#78  
 Terphenyl-d14  
 Concen: 77.48 ng  
 RT: 13.44 min Scan# 1964  
 Delta R.T. 0.00 min  
 Lab File: BF093843.D  
 Acq: 22 Mar 2017 20:18

Tgt Ion:244 Resp: 1725437  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 6.0 9.0  
 122 14.2 10.3 15.5

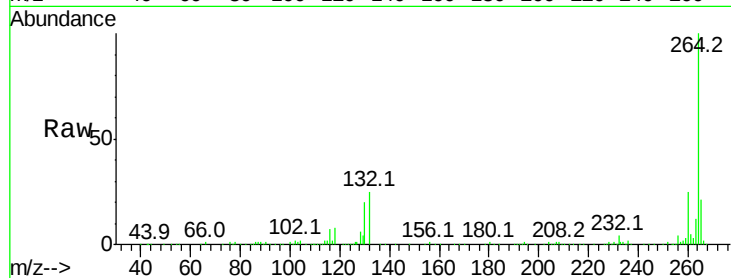




#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 16.34 min Scan# 2458  
 Delta R.T. -0.01 min  
 Lab File: BF093843.D  
 Acq: 22 Mar 2017 20:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOD-SOIL-01-QT2-2017

Tot Ion:264 Resp: 405731  
 Ion Ratio Lower Upper  
 264 100  
 260 24.8 19.5 29.3  
 265 21.4 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

