

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG121518\  
 Data File : BG038632.D  
 Acq On : 16 Dec 2018 9:27  
 Operator : JU/SJ  
 Sample : J6356-01  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGS

Quant Time: Dec 17 03:14:20 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG121218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 12 15:26:27 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.06  | 152  | 20849    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.87 | 136  | 82552    | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.69 | 164  | 53932    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.44 | 188  | 135688   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.72 | 240  | 142621   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 25.02 | 264  | 150652   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.61  | 112  | 173779   | 147.84 | ng    | 0.00     |
| 7) Phenol-d6                | 7.21  | 99   | 210761   | 130.61 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.23  | 82   | 179231   | 110.92 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.19 | 330  | 120911   | 162.67 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.32 | 172  | 412017   | 104.80 | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.05 | 244  | 791282   | 120.75 | ng    | 0.00     |

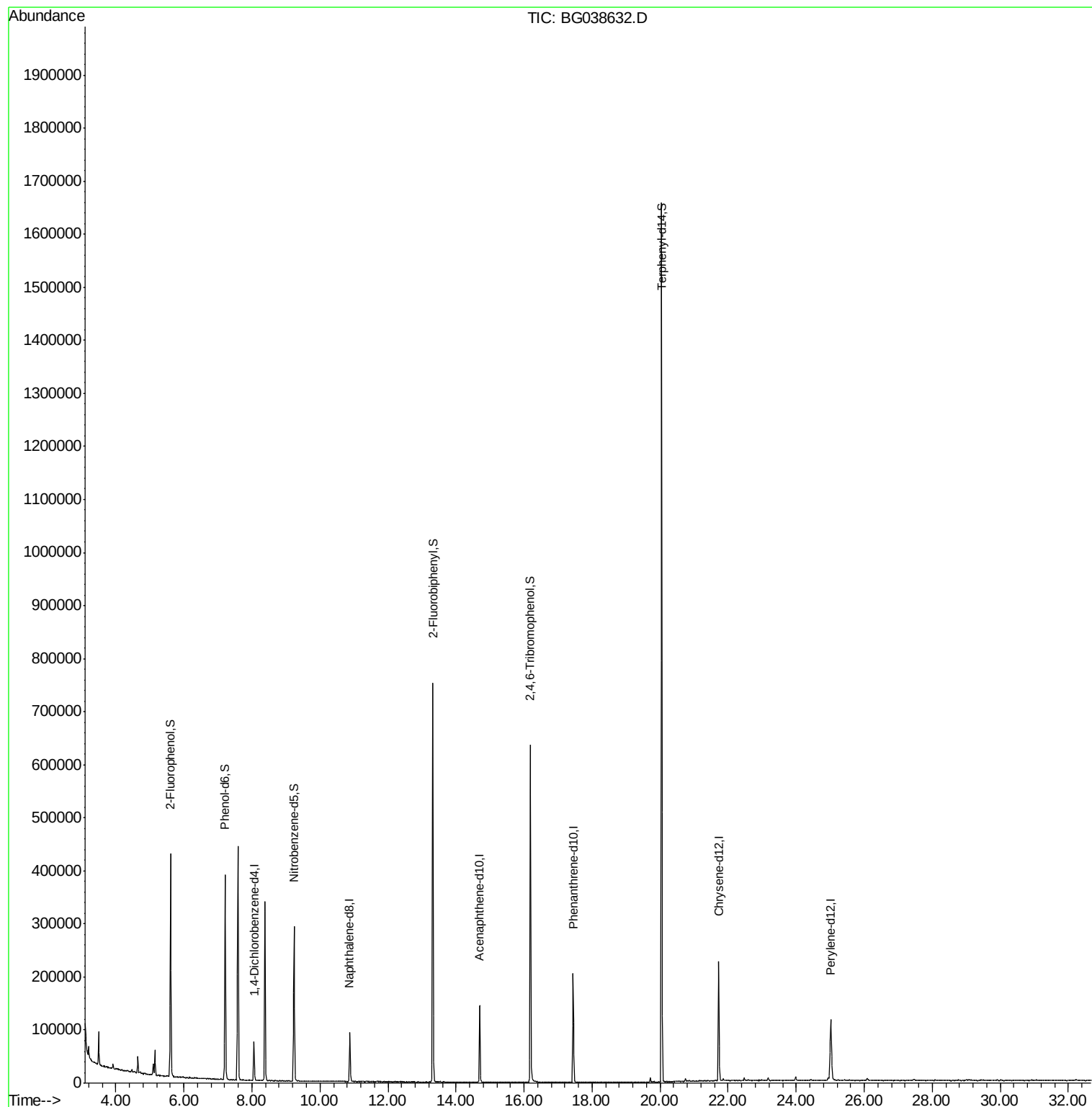
Target Compounds Qvalue

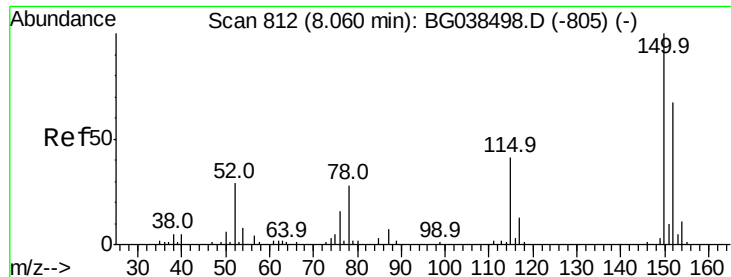
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
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QLast Update : Wed Dec 12 15:26:27 2018  
Response via : Initial Calibration



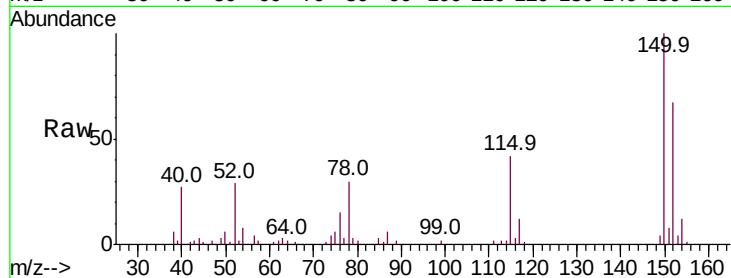


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 846  
Delta R.T. -0.00 min  
Lab File: BG038632.D  
Acq: 16 Dec 2018 9:27

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 148.3 | 119.5 | 179.3 |
| 115     | 62.3  | 49.6  | 74.4  |

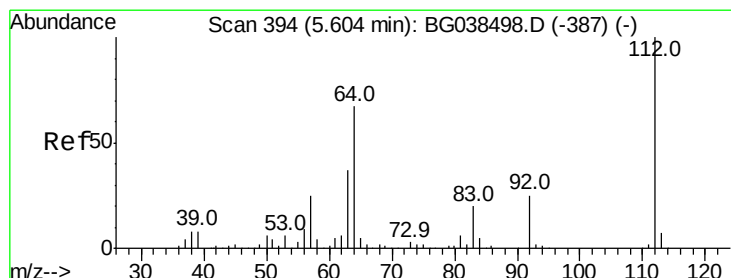
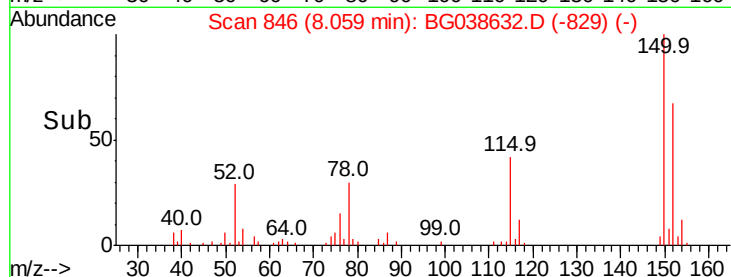
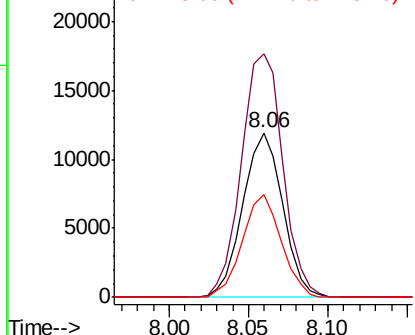


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

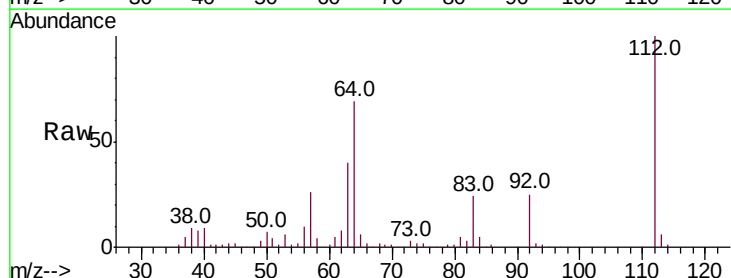
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 147.836 ng  
RT: 5.61 min Scan# 429  
Delta R.T. 0.01 min  
Lab File: BG038632.D  
Acq: 16 Dec 2018 9:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 68.8  | 53.4  | 80.2  |
| 63      | 40.5  | 29.3  | 43.9  |

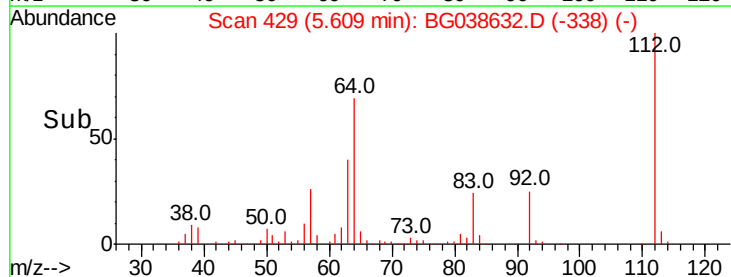
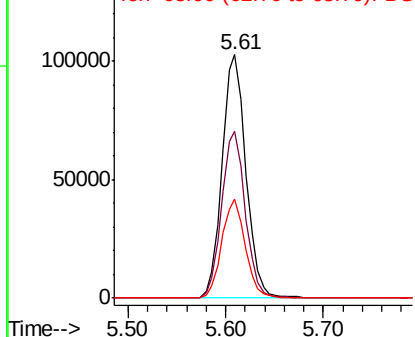


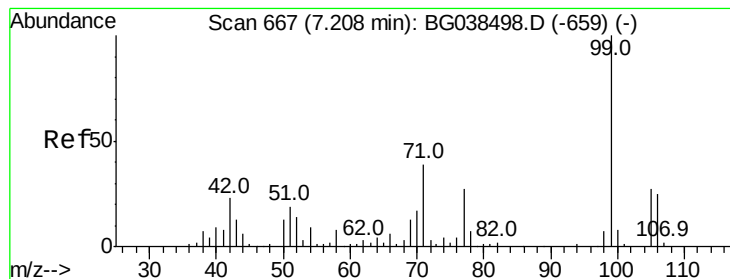
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG

Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 130.606 ng

RT: 7.21 min Scan# 702

Delta R.T. 0.01 min

Lab File: BG038632.D

Acq: 16 Dec 2018 9:27

Instrument :

BNA\_G

ClientSampleId :

SOIL-CUTTINGS

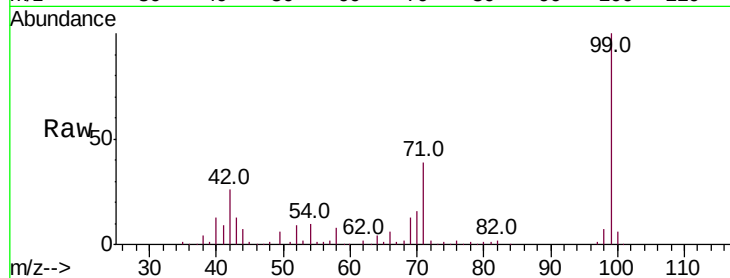
Tot Ion: 99 Resp: 210761

Ion Ratio Lower Upper

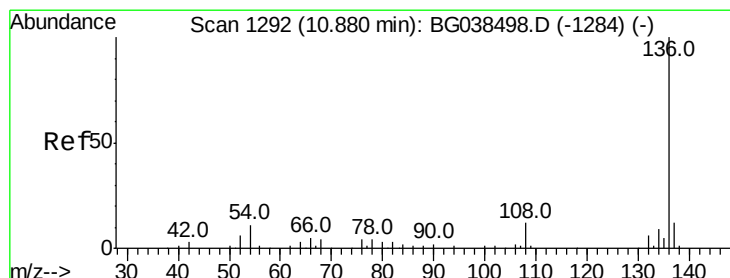
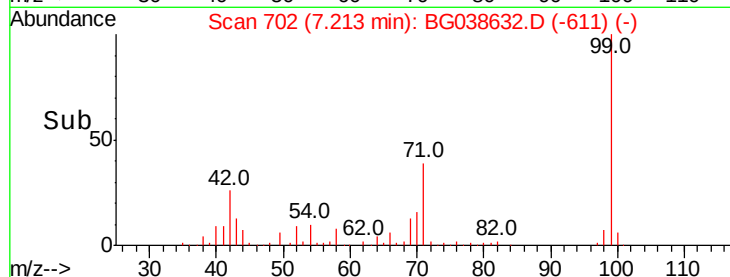
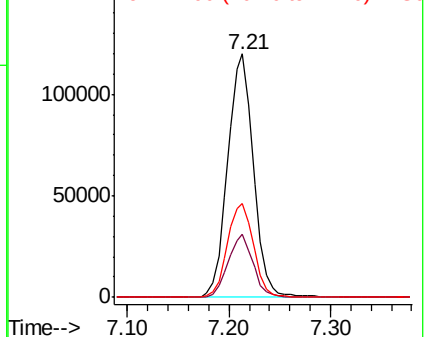
99 100

42 25.7 18.5 27.7

71 38.8 31.1 46.7



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.87 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BG038632.D

Acq: 16 Dec 2018 9:27

Tgt Ion:136 Resp: 82552

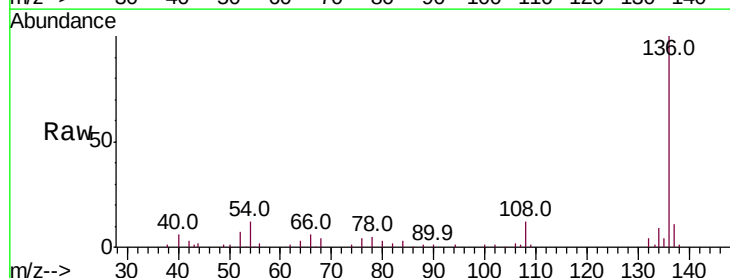
Ion Ratio Lower Upper

136 100

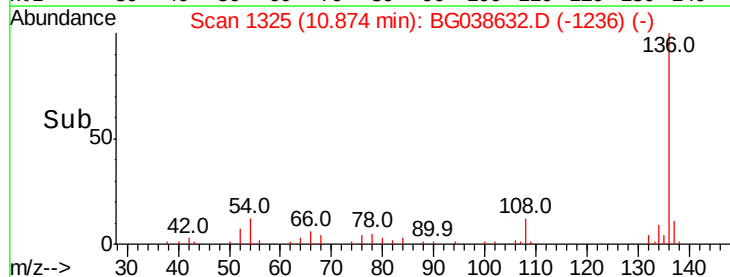
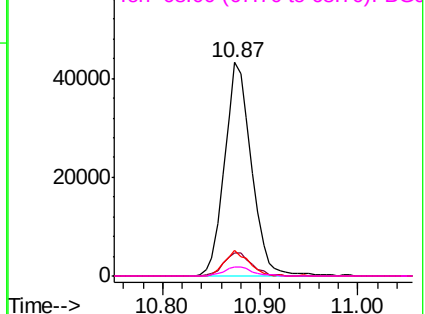
137 10.7 9.3 13.9

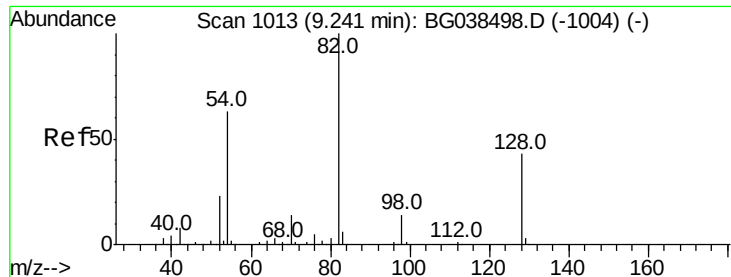
54 12.0 8.5 12.7

68 4.5 3.5 5.3



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): BGC  
Ion 68.00 (67.70 to 68.70): BGC





#23

Nitrobenzene-d5

Concen: 110.917 ng

RT: 9.23 min Scan# 1046

Delta R.T. -0.01 min

Lab File: BG038632.D

Acq: 16 Dec 2018 9:27

Instrument :

BNA\_G

ClientSampleId :

SOIL-CUTTINGS

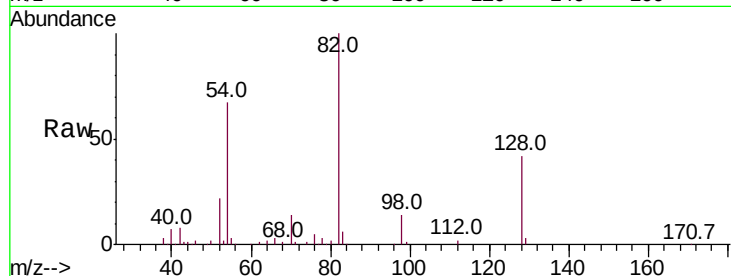
Tot Ion: 82 Resp: 179231

Ion Ratio Lower Upper

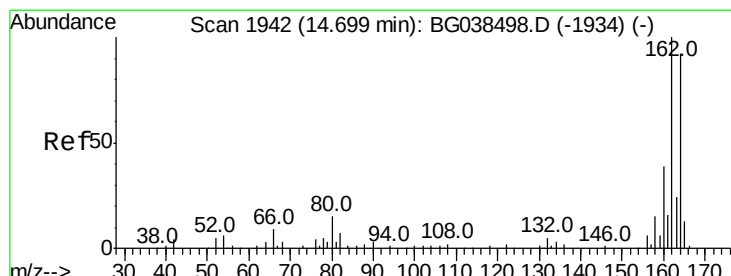
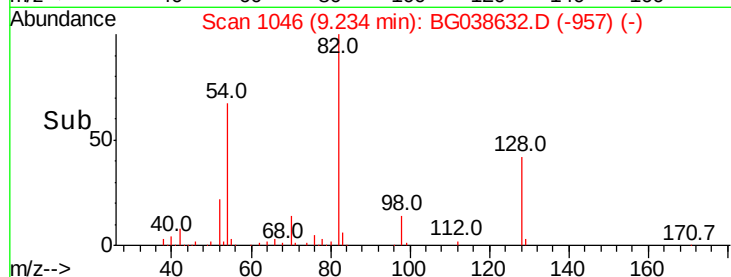
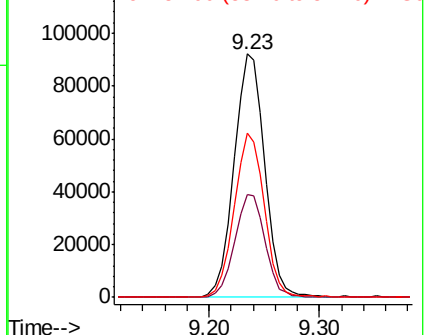
82 100

128 42.3 34.6 52.0

54 67.2 50.6 76.0



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.69 min Scan# 1975

Delta R.T. -0.01 min

Lab File: BG038632.D

Acq: 16 Dec 2018 9:27

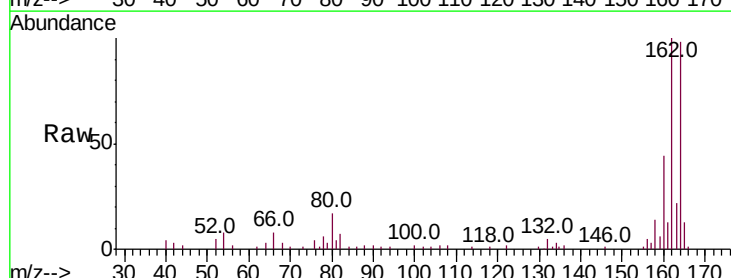
Tgt Ion: 164 Resp: 53932

Ion Ratio Lower Upper

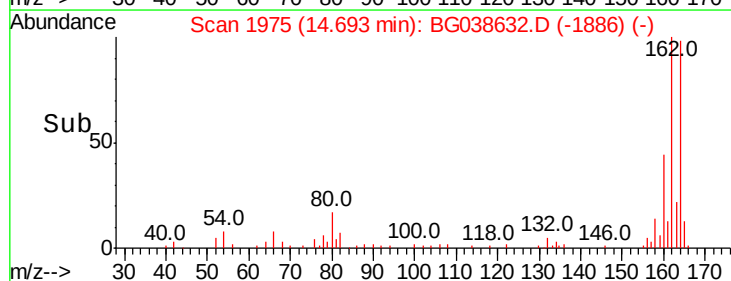
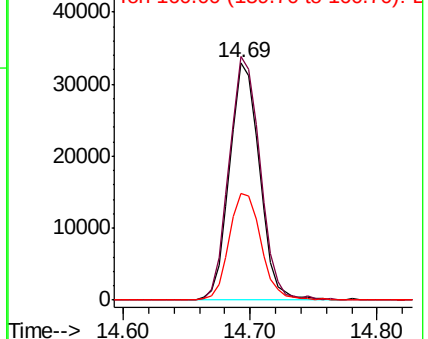
164 100

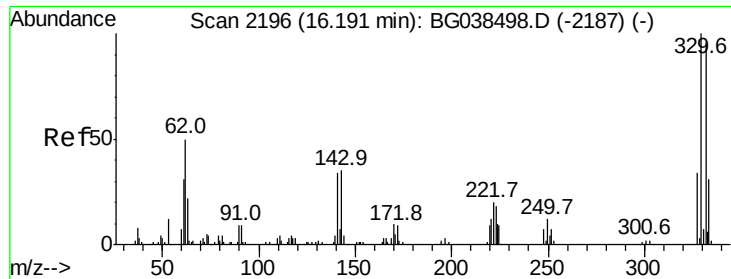
162 102.4 86.6 130.0

160 45.0 34.2 51.2



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





#42

2,4,6-Tribromophenol

Concen: 162.672 ng

RT: 16.19 min Scan# 2229

Delta R.T. -0.01 min

Lab File: BG038632.D

Acq: 16 Dec 2018 9:27

Instrument :

BNA\_G

ClientSampleId :

SOIL-CUTTINGS

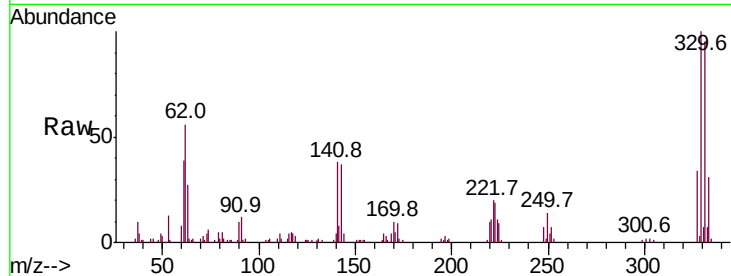
Tot Ion:330 Resp: 120911

Ion Ratio Lower Upper

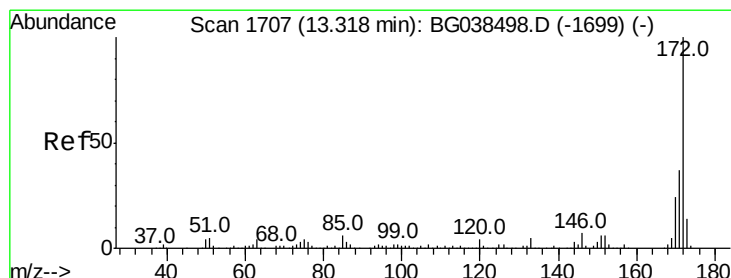
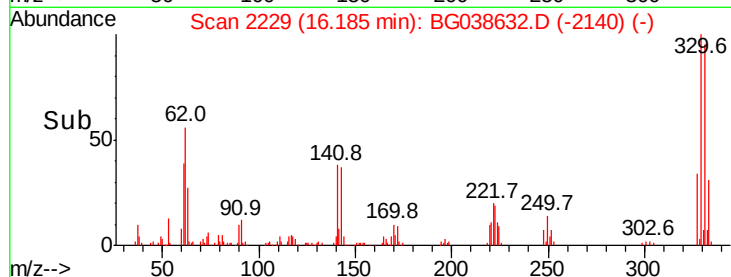
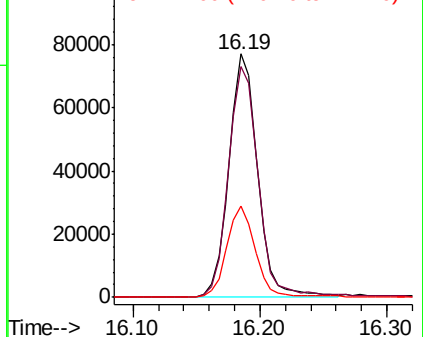
330 100

332 98.2 76.9 115.3

141 37.7 28.8 43.2



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



#45

2-Fluorobiphenyl

Concen: 104.803 ng

RT: 13.32 min Scan# 1741

Delta R.T. -0.00 min

Lab File: BG038632.D

Acq: 16 Dec 2018 9:27

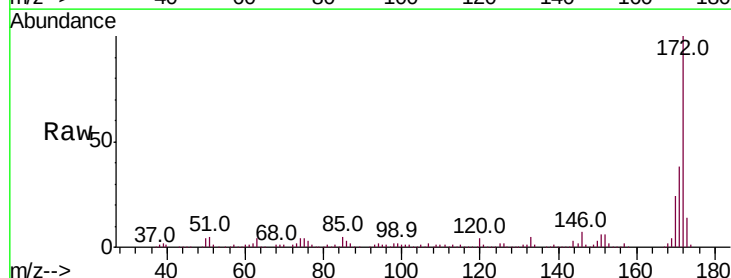
Tgt Ion:172 Resp: 412017

Ion Ratio Lower Upper

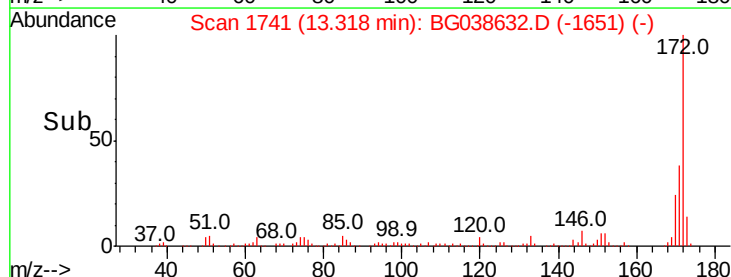
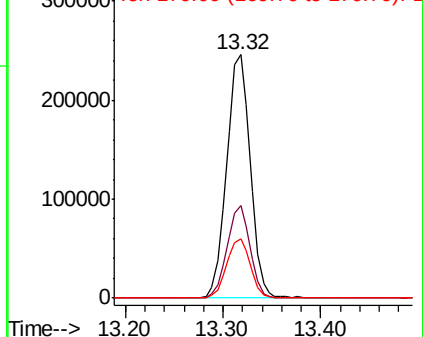
172 100

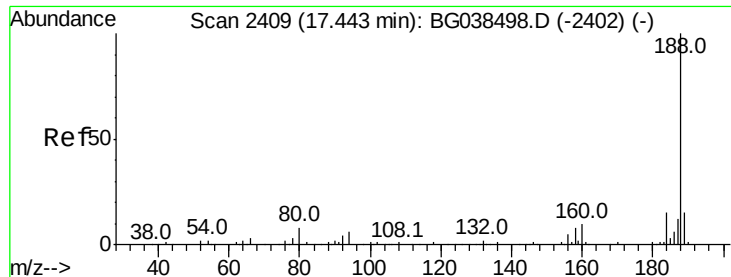
171 38.2 29.8 44.6

170 24.4 19.5 29.3



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

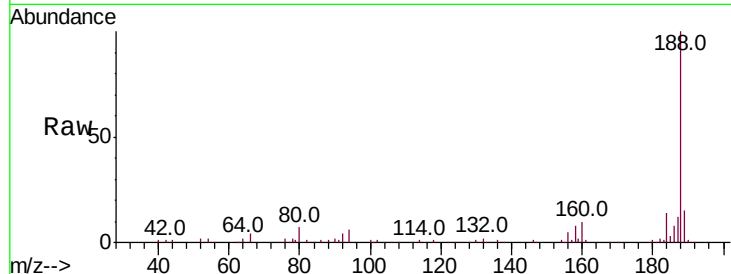




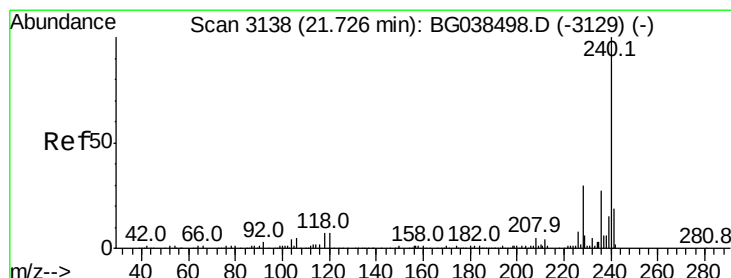
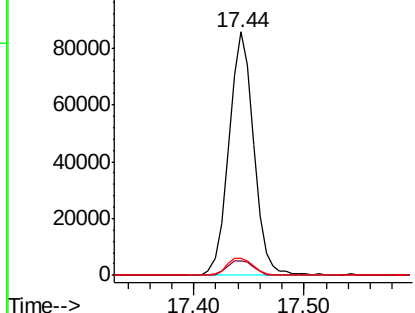
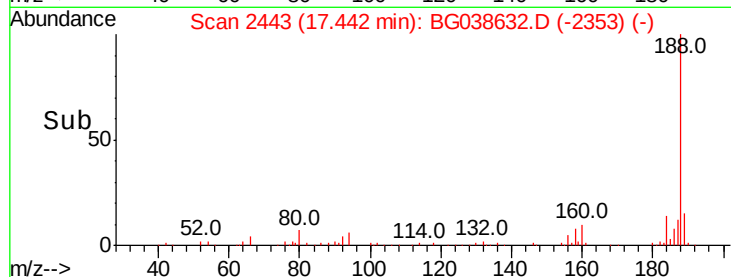
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.44 min Scan# 2443  
 Delta R.T. -0.00 min  
 Lab File: BG038632.D  
 Acq: 16 Dec 2018 9:27

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGS

Tot Ion:188 Resp: 135688  
 Ion Ratio Lower Upper  
 188 100  
 94 5.9 5.1 7.7  
 80 7.2 6.1 9.1

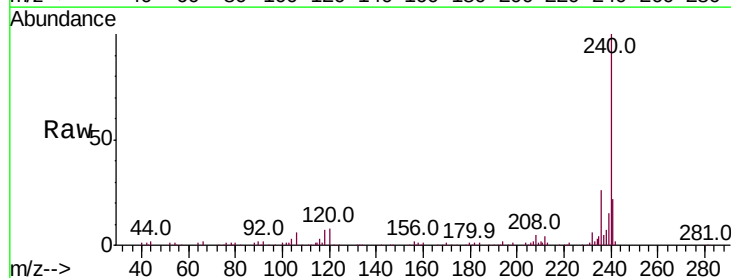


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BGC  
 Ion 80.00 (79.70 to 80.70): BGC

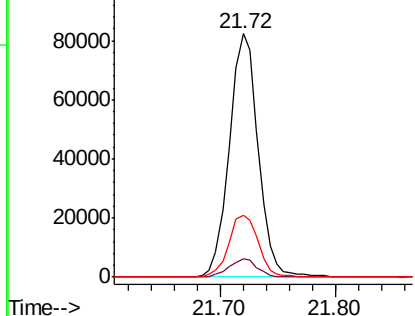
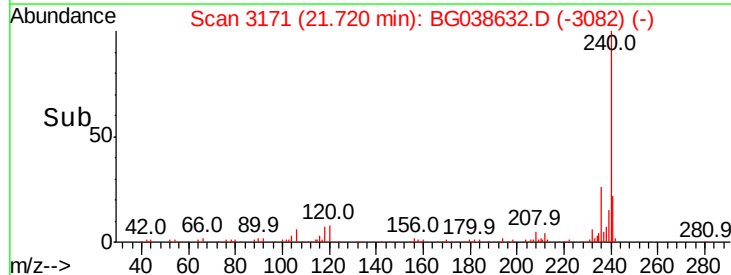


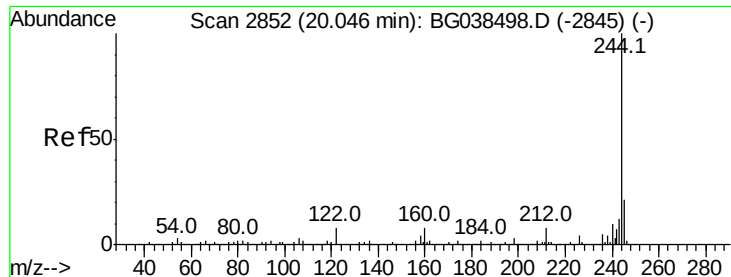
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.72 min Scan# 3171  
 Delta R.T. -0.01 min  
 Lab File: BG038632.D  
 Acq: 16 Dec 2018 9:27

Tgt Ion:240 Resp: 142621  
 Ion Ratio Lower Upper  
 240 100  
 120 7.7 5.3 7.9  
 236 25.5 21.4 32.2



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





#79

Terphenyl-d14

Concen: 120.746 ng

RT: 20.05 min Scan# 2886

Delta R.T. 0.00 min

Lab File: BG038632.D

Acq: 16 Dec 2018 9:27

Instrument :

BNA\_G

ClientSampleId :

SOIL-CUTTINGS

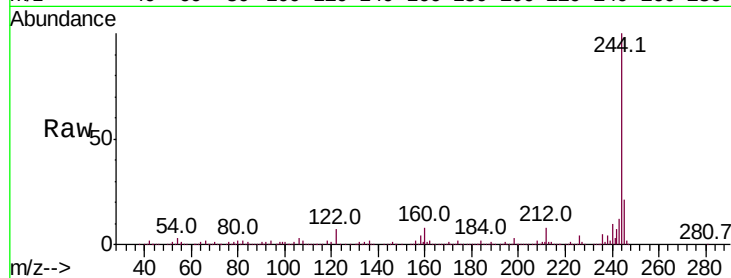
Tot Ion:244 Resp: 791282

Ion Ratio Lower Upper

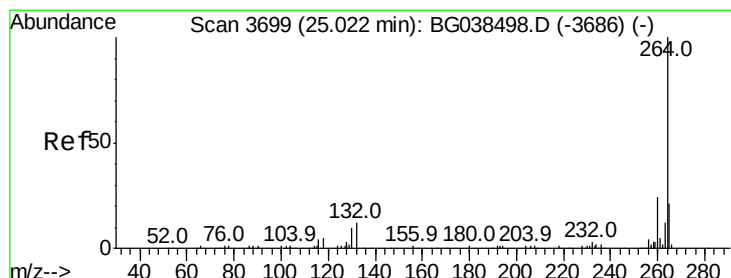
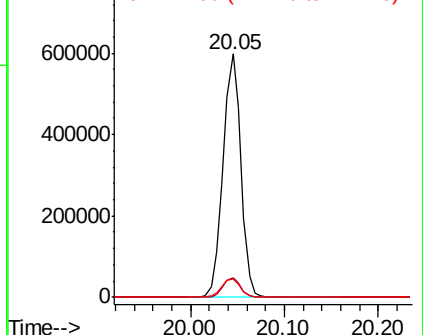
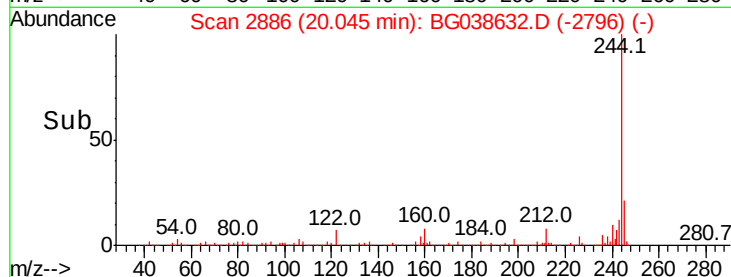
244 100

212 8.2 6.2 9.2

122 7.5 6.3 9.5



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 25.02 min Scan# 3732

Delta R.T. -0.01 min

Lab File: BG038632.D

Acq: 16 Dec 2018 9:27

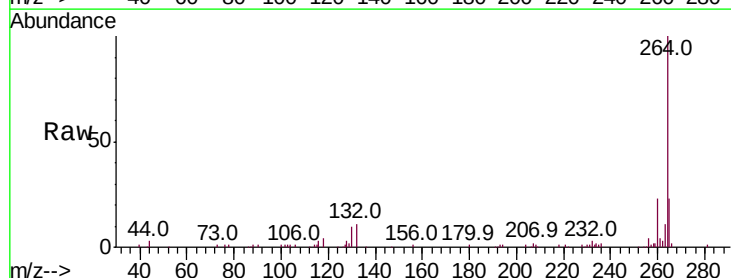
Tgt Ion:264 Resp: 150652

Ion Ratio Lower Upper

264 100

260 23.2 18.9 28.3

265 23.2 17.0 25.4



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

