

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG012418\  
 Data File : BG032290.D  
 Acq On : 25 Jan 2018 10:09  
 Operator : SJ/JU  
 Sample : J1255-04  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OWS-4

Quant Time: Jan 25 10:50:48 2018  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG011218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 24 14:02:41 2018  
 Response via : Initial Calibration

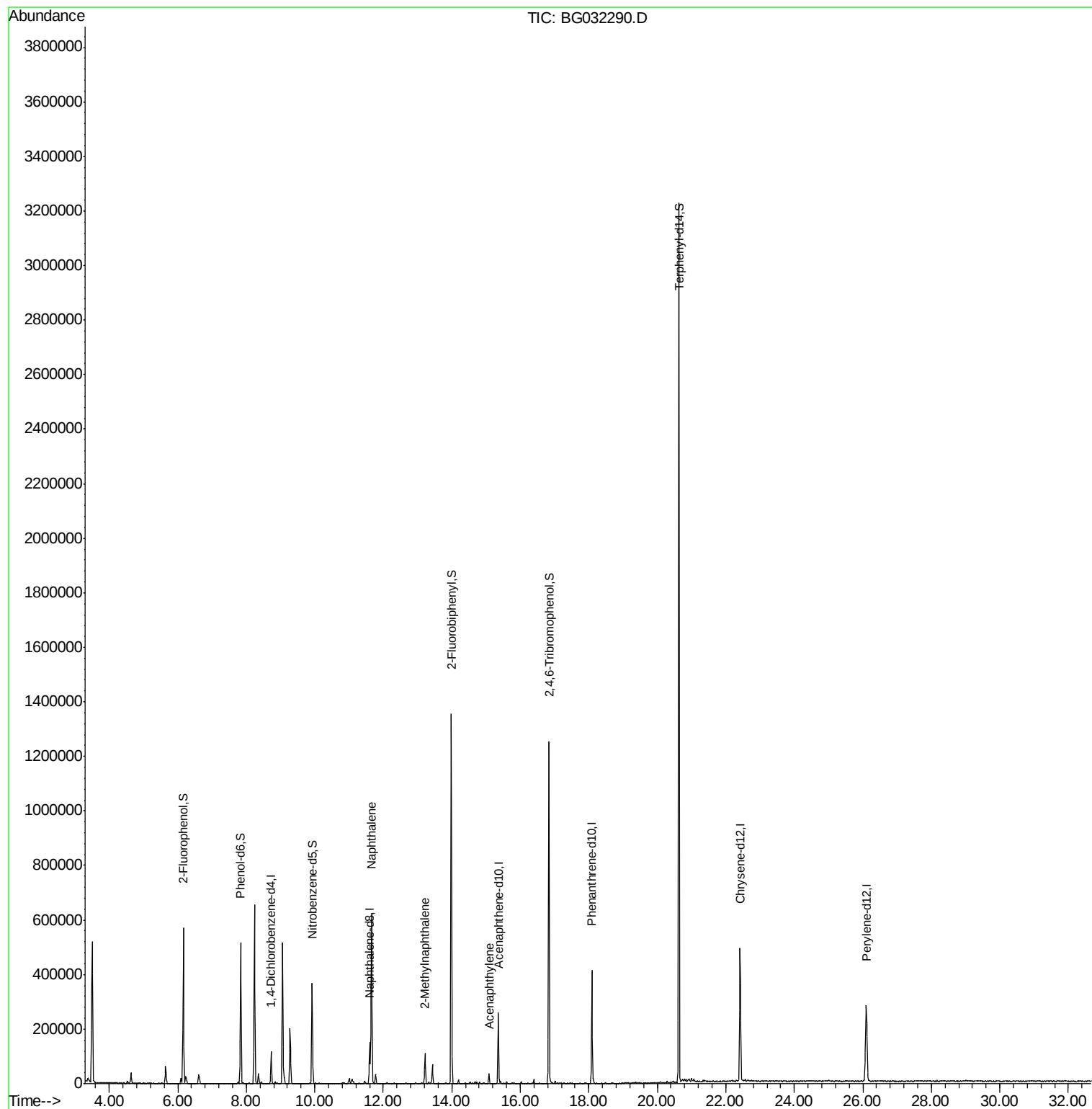
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.72  | 152  | 38384    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 11.61 | 136  | 147822   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 15.36 | 164  | 101711   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 18.09 | 188  | 286031   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 22.42 | 240  | 373780   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 26.10 | 264  | 396340   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 6.16  | 112  | 276219   | 131.61 | ng    | 0.00     |
| 7) Phenol-d6                | 7.83  | 99   | 312759   | 118.33 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.92  | 82   | 228838   | 104.73 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.84 | 330  | 278614   | 165.54 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.99 | 172  | 801254   | 97.68  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.63 | 244  | 1717911  | 101.48 | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 11.66 | 128  | 585119   | 79.904 | ng    | 99       |
| 37) 2-Methylnaphthalene     | 13.22 | 142  | 56291    | 9.682  | ng    | 96       |
| 48) Acenaphthylene          | 15.08 | 152  | 28984    | 2.806  | ng    | 97       |

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

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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.72 min Scan# 925

Delta R.T. -0.00 min

Lab File: BG032290.D

Acq: 25 Jan 2018 10:09

Instrument :

BNA\_G

ClientSampleId :

OWS-4

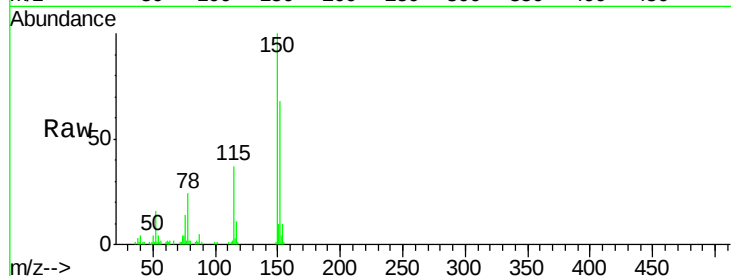
Tgt Ion:152 Resp: 38384

Ion Ratio Lower Upper

152 100

150 147.1 126.6 189.8

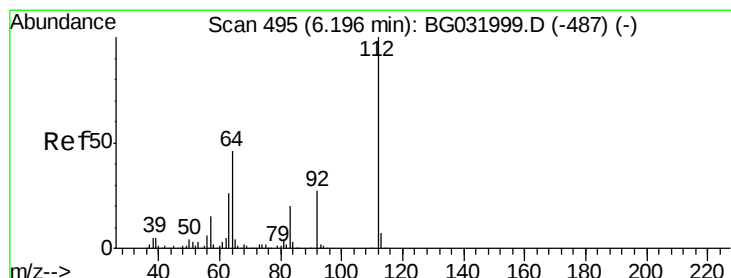
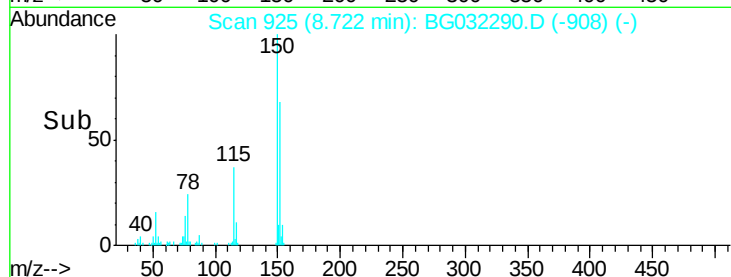
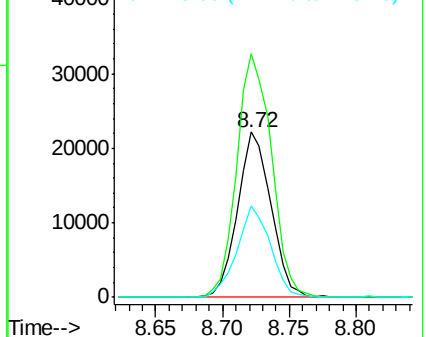
115 54.9 53.0 79.4



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: 131.614 ng

RT: 6.16 min Scan# 489

Delta R.T. 0.00 min

Lab File: BG032290.D

Acq: 25 Jan 2018 10:09

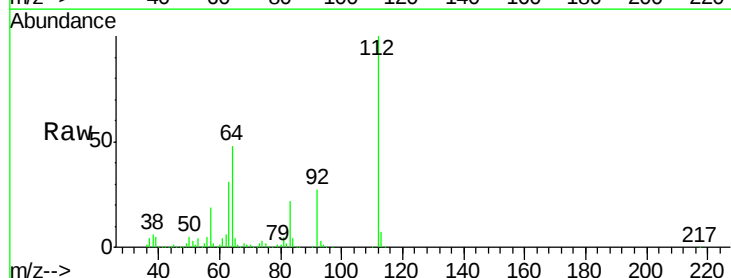
Tgt Ion:112 Resp: 276219

Ion Ratio Lower Upper

112 100

64 48.2 56.3 84.5#

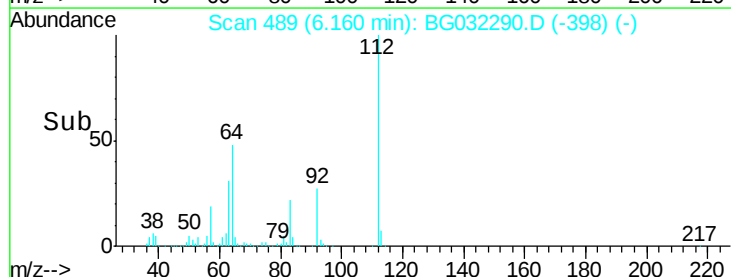
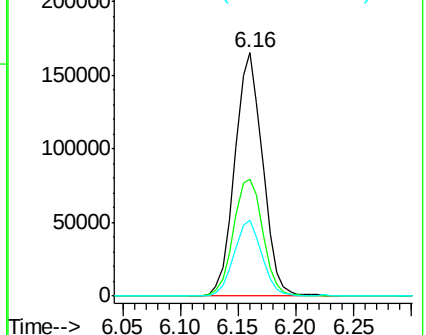
63 31.4 30.1 45.1

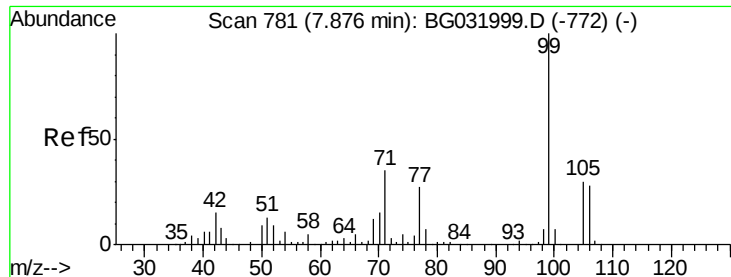


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 118.326 ng

RT: 7.83 min Scan# 774

Delta R.T. -0.00 min

Lab File: BG032290.D

Acq: 25 Jan 2018 10:09

Instrument :

BNA\_G

ClientSampleId :

OWS-4

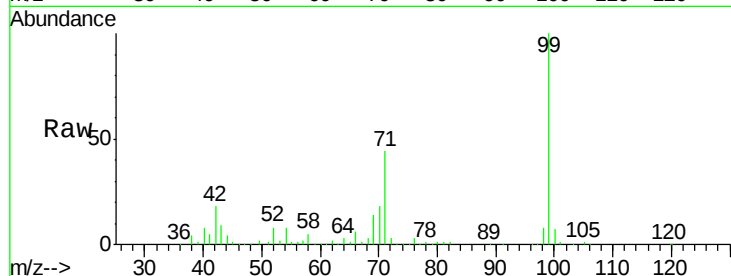
Tgt Ion: 99 Resp: 312759

Ion Ratio Lower Upper

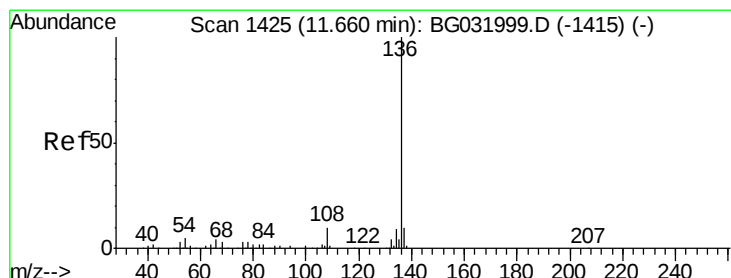
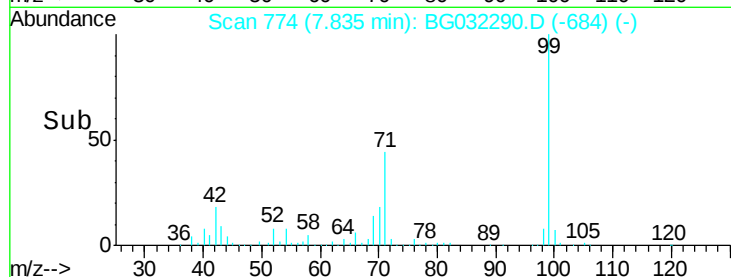
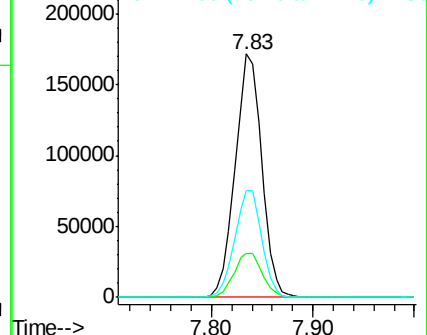
99 100

42 18.3 14.1 21.1

71 43.6 26.1 39.1#



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: 11.61 min Scan# 1416

Delta R.T. -0.00 min

Lab File: BG032290.D

Acq: 25 Jan 2018 10:09

Tgt Ion: 136 Resp: 147822

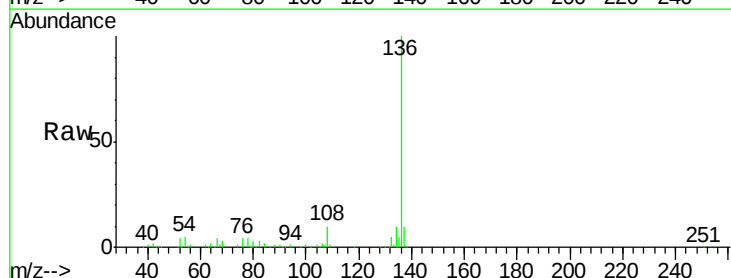
Ion Ratio Lower Upper

136 100

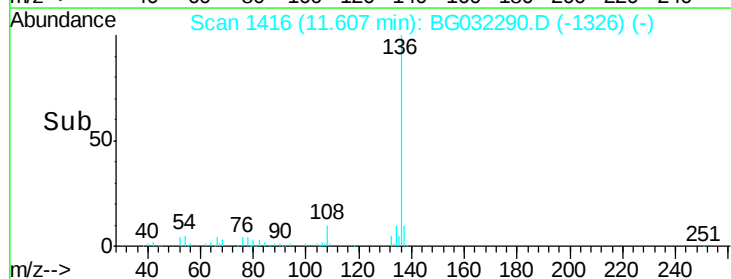
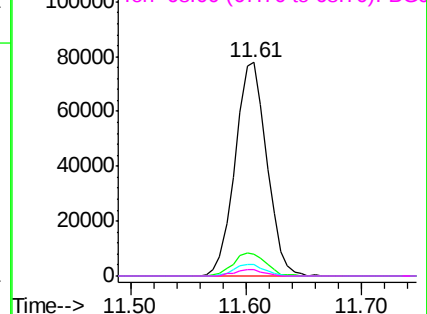
137 10.2 9.2 13.8

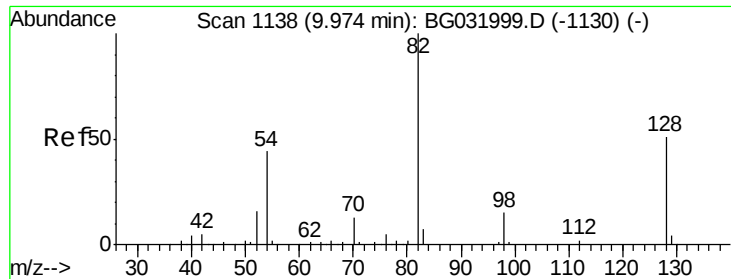
54 5.4 10.3 15.5#

68 3.1 4.5 6.7#



Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

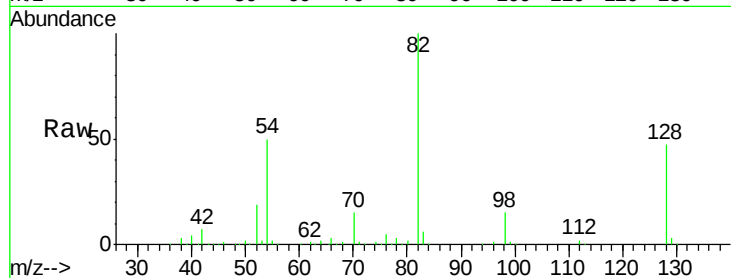




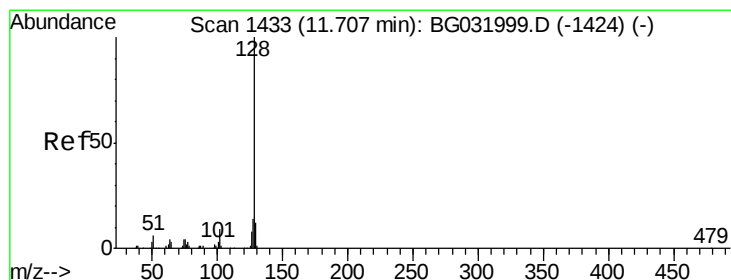
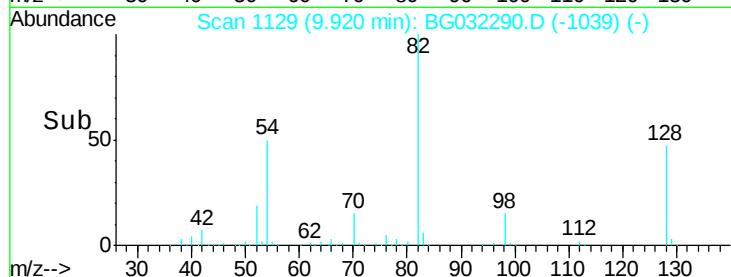
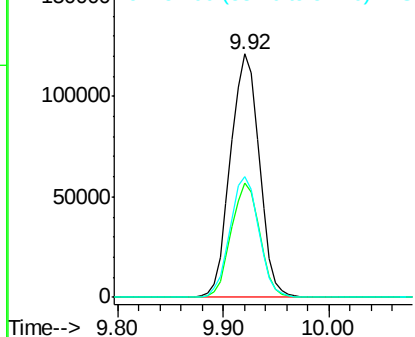
#23  
 Nitrobenzene-d5  
 Concen: 104.733 ng  
 RT: 9.92 min Scan# 1129  
 Delta R.T. -0.00 min  
 Lab File: BG032290.D  
 Acq: 25 Jan 2018 10:09

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OWS-4

Tgt Ion: 82 Resp: 228838  
 Ion Ratio Lower Upper  
 82 100  
 128 46.8 29.7 44.5#  
 54 49.5 43.1 64.7

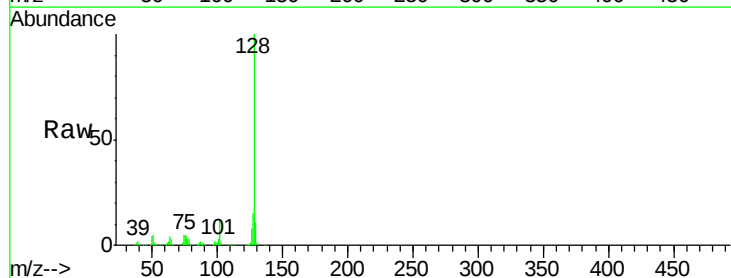


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

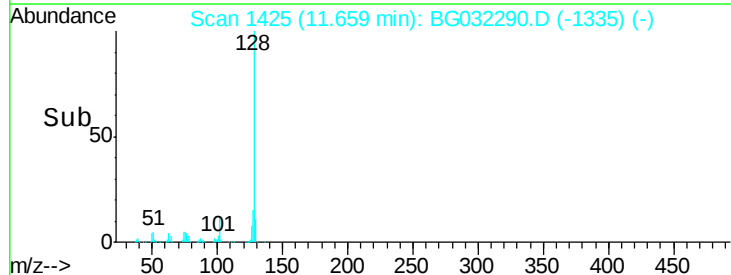
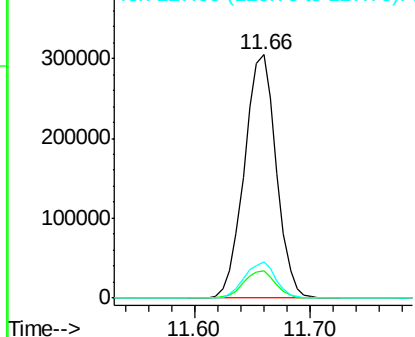


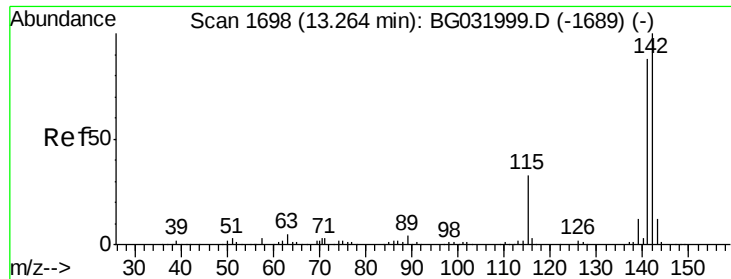
#31  
 Naphthalene  
 Concen: 79.904 ng  
 RT: 11.66 min Scan# 1425  
 Delta R.T. -0.00 min  
 Lab File: BG032290.D  
 Acq: 25 Jan 2018 10:09

Tgt Ion: 128 Resp: 585119  
 Ion Ratio Lower Upper  
 128 100  
 129 11.1 8.6 12.8  
 127 14.8 11.6 17.4



Abundance Ion 128.00 (127.70 to 128.70): BGC  
 Ion 129.00 (128.70 to 129.70): BGC  
 Ion 127.00 (126.70 to 127.70): BGC

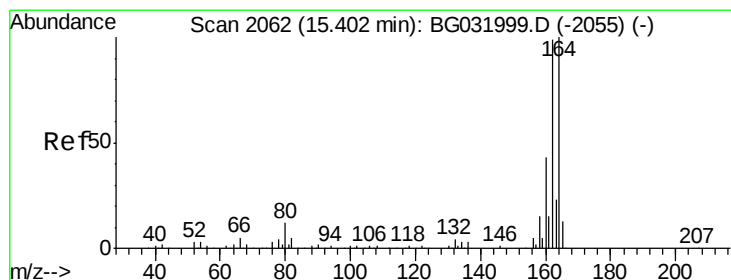
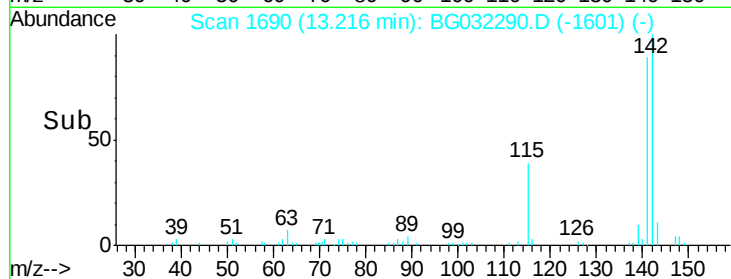
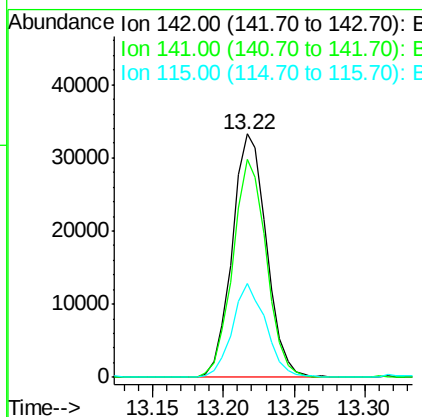
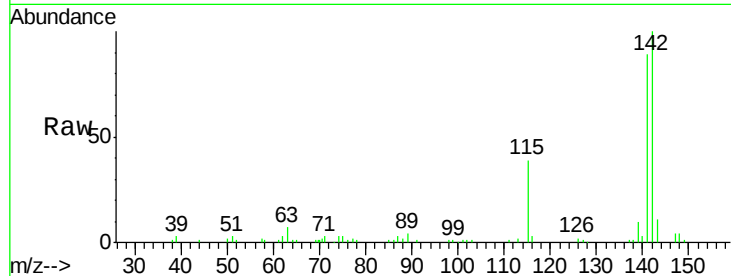




#37  
 2-Methylnaphthalene  
 Concen: 9.682 ng  
 RT: 13.22 min Scan# 1690  
 Delta R.T. -0.01 min  
 Lab File: BG032290.D  
 Acq: 25 Jan 2018 10:09

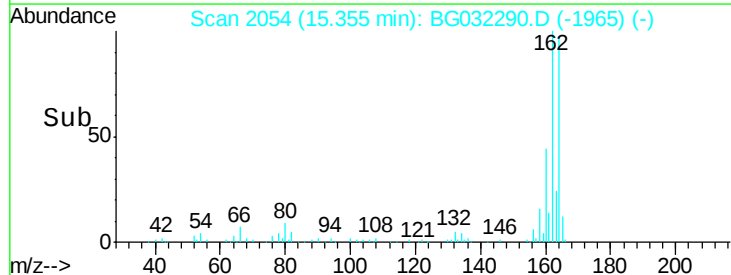
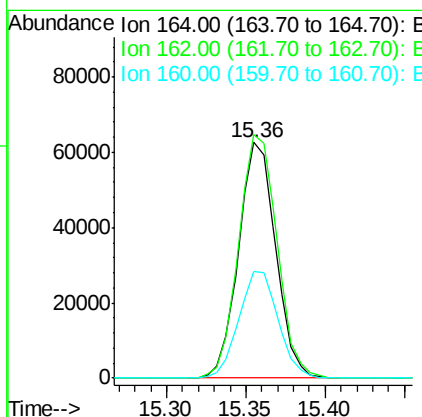
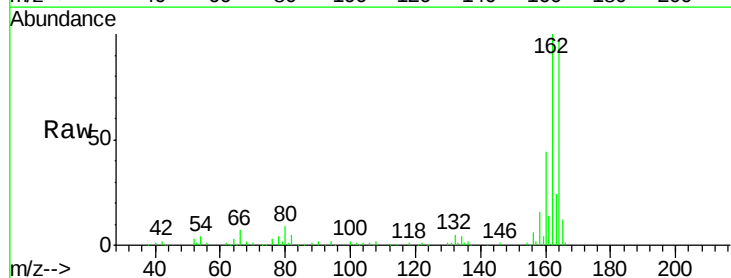
Instrument :  
 BNA\_G  
 ClientSampleId :  
 OWS-4

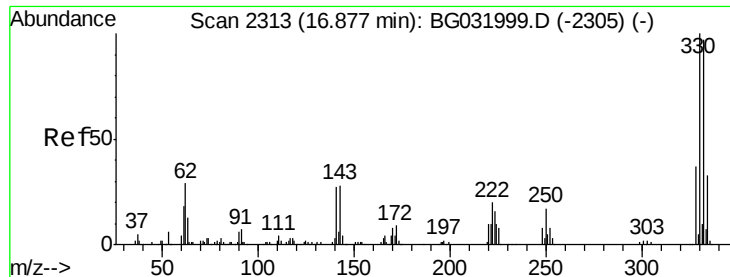
Tgt Ion:142 Resp: 56291  
 Ion Ratio Lower Upper  
 142 100  
 141 89.4 67.1 100.7  
 115 38.7 30.7 46.1



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 15.36 min Scan# 2054  
 Delta R.T. -0.01 min  
 Lab File: BG032290.D  
 Acq: 25 Jan 2018 10:09

Tgt Ion:164 Resp: 101711  
 Ion Ratio Lower Upper  
 164 100  
 162 103.3 78.8 118.2  
 160 45.4 35.4 53.0

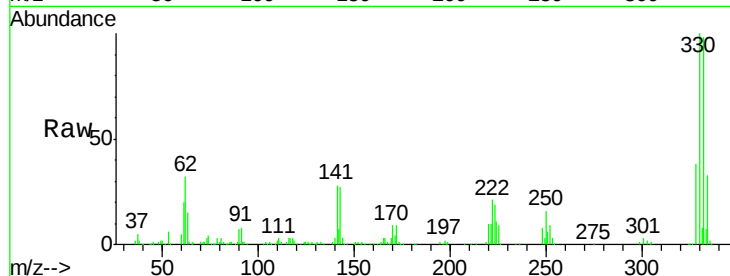




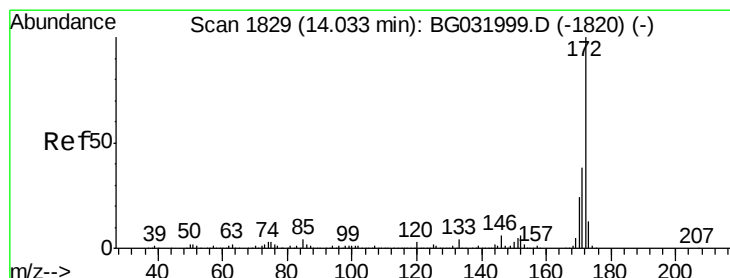
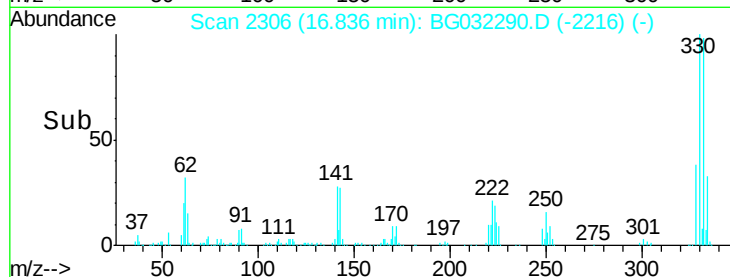
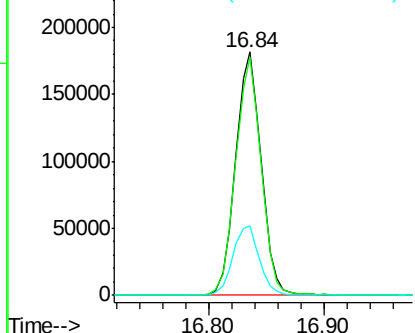
#41  
 2,4,6-Tribromophenol  
 Concen: 165.538 ng  
 RT: 16.84 min Scan# 2306  
 Delta R.T. -0.00 min  
 Lab File: BG032290.D  
 Acq: 25 Jan 2018 10:09

Instrument :  
 BNA\_G  
 ClientSampled :  
 OWS-4

Tgt Ion:330 Resp: 278614  
 Ion Ratio Lower Upper  
 330 100  
 332 97.8 77.0 115.6  
 141 29.3 25.2 37.8

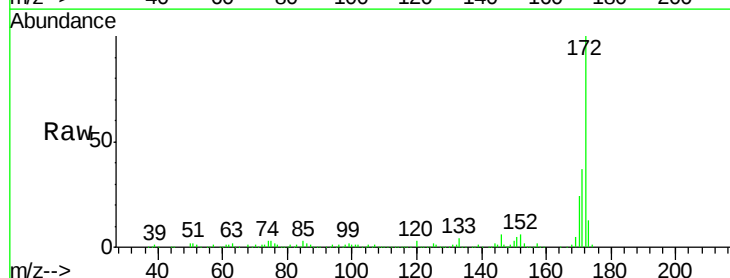


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

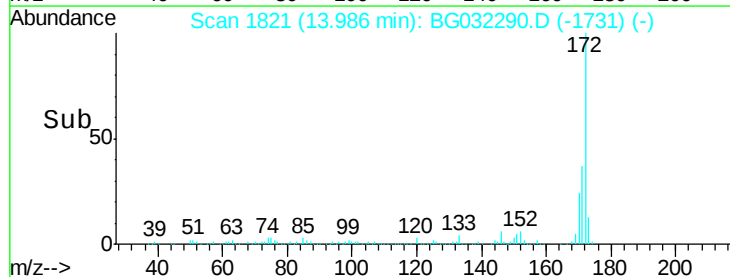
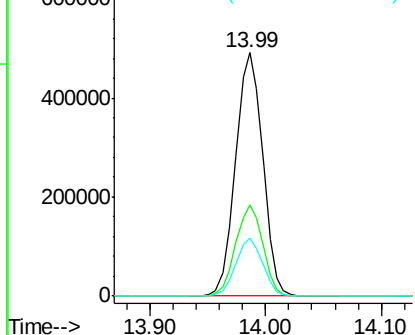


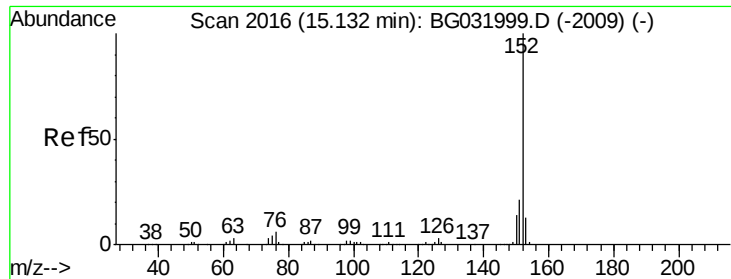
#44  
 2-Fluorobiphenyl  
 Concen: 97.680 ng  
 RT: 13.99 min Scan# 1821  
 Delta R.T. -0.00 min  
 Lab File: BG032290.D  
 Acq: 25 Jan 2018 10:09

Tgt Ion:172 Resp: 801254  
 Ion Ratio Lower Upper  
 172 100  
 171 37.4 30.0 45.0  
 170 23.9 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





#48

Acenaphthylene

Concen: 2.806 ng

RT: 15.08 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BG032290.D

Acq: 25 Jan 2018 10:09

Instrument :

BNA\_G

ClientSampleId :

OWS-4

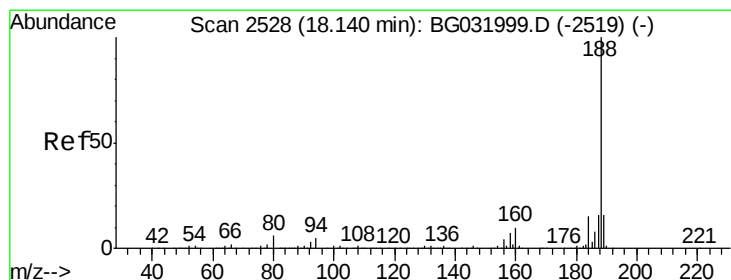
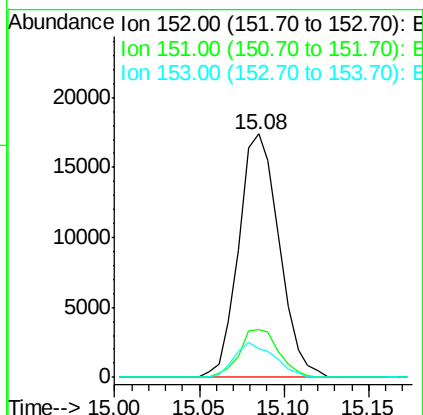
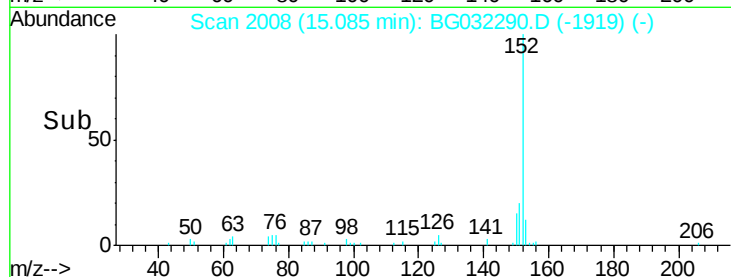
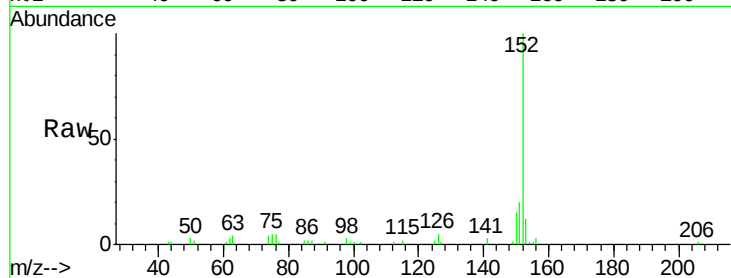
Tgt Ion:152 Resp: 28984

Ion Ratio Lower Upper

152 100

151 19.8 17.2 25.8

153 11.8 10.2 15.4



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.09 min Scan# 2520

Delta R.T. -0.00 min

Lab File: BG032290.D

Acq: 25 Jan 2018 10:09

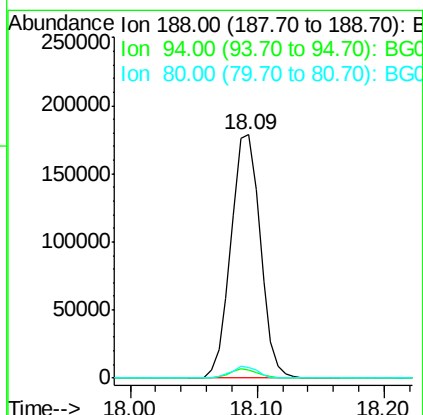
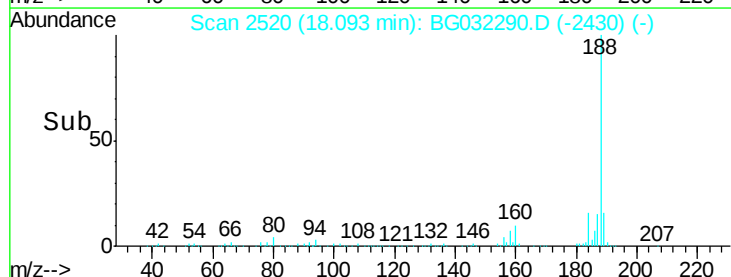
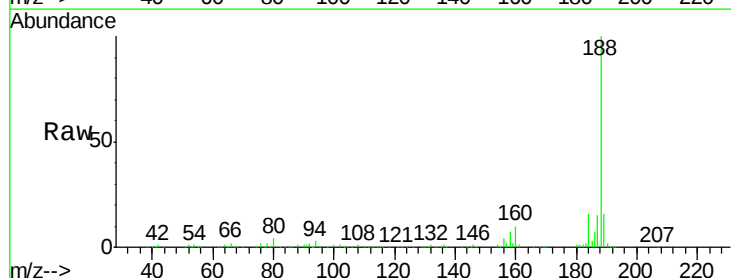
Tgt Ion:188 Resp: 286031

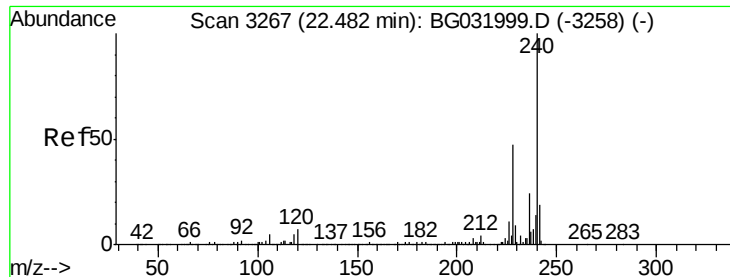
Ion Ratio Lower Upper

188 100

94 3.3 6.9 10.3#

80 4.2 7.7 11.5#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.42 min Scan# 3256

Delta R.T. -0.01 min

Lab File: BG032290.D

Acq: 25 Jan 2018 10:09

Instrument :

BNA\_G

ClientSampleId :

OWS-4

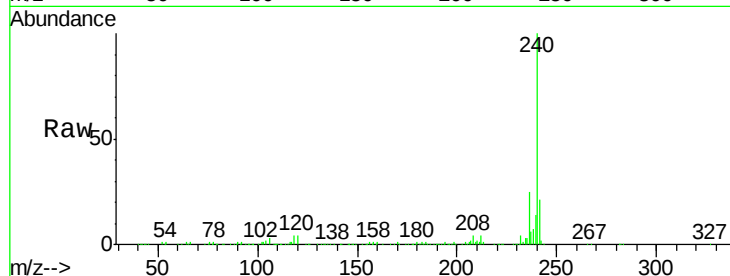
Tgt Ion:240 Resp: 373780

Ion Ratio Lower Upper

240 100

120 4.1 6.8 10.2#

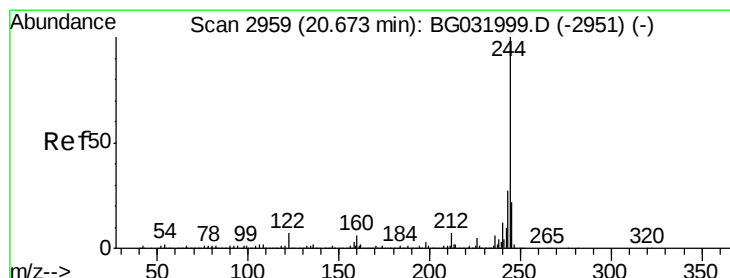
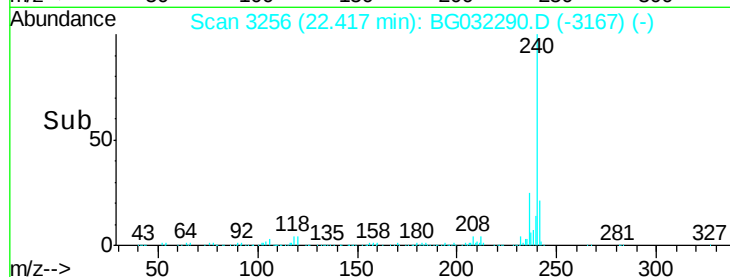
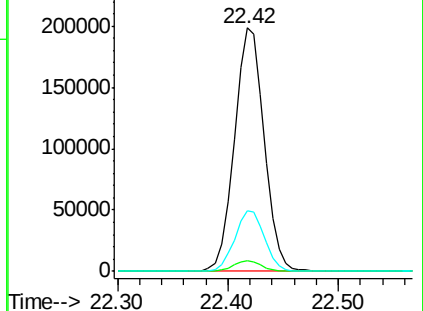
236 24.9 20.9 31.3



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

Terphenyl-d14

Concen: 101.483 ng

RT: 20.63 min Scan# 2952

Delta R.T. -0.00 min

Lab File: BG032290.D

Acq: 25 Jan 2018 10:09

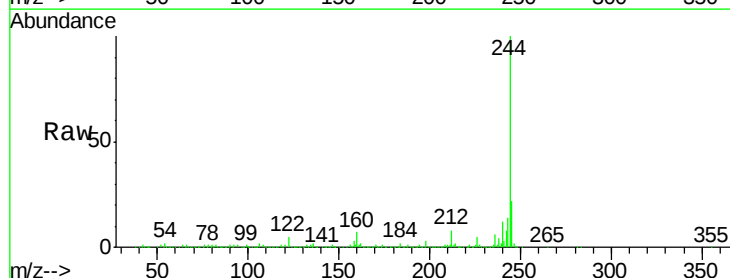
Tgt Ion:244 Resp: 1717911

Ion Ratio Lower Upper

244 100

212 8.1 5.8 8.8

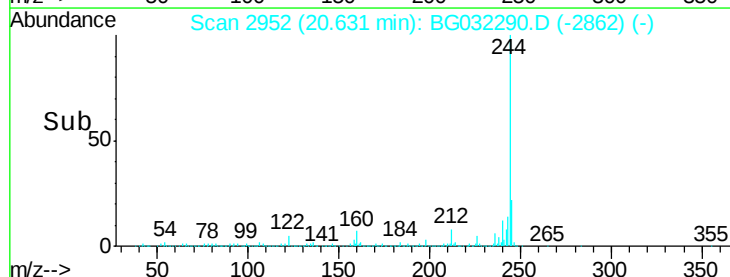
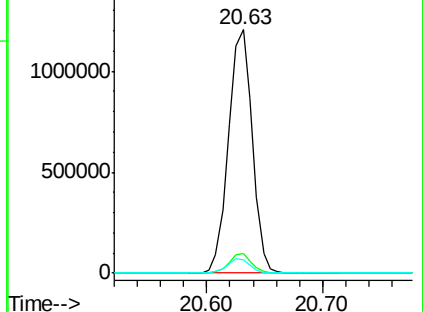
122 5.4 7.0 10.4#

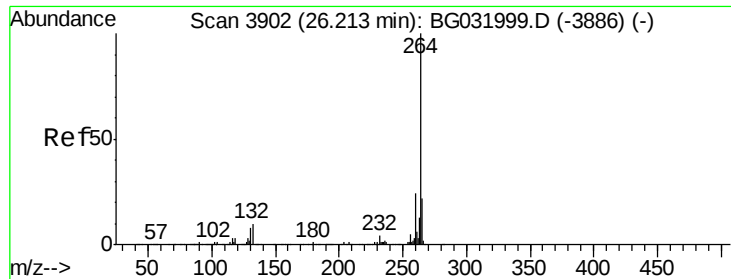


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 26.10 min Scan# 3883  
Delta R.T. -0.01 min  
Lab File: BG032290.D  
Acq: 25 Jan 2018 10:09

Instrument :  
BNA\_G  
ClientSampleId :  
OWS-4

Tgt Ion: 264 Resp: 396340  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.4  | 17.4  | 26.0  |
| 265 | 21.2  | 17.7  | 26.5  |

