

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG012418\  
 Data File : BG032285.D  
 Acq On : 25 Jan 2018 7:02  
 Operator : SJ/JU  
 Sample : J1254-04  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OWS-4

Quant Time: Jan 25 09:53:11 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

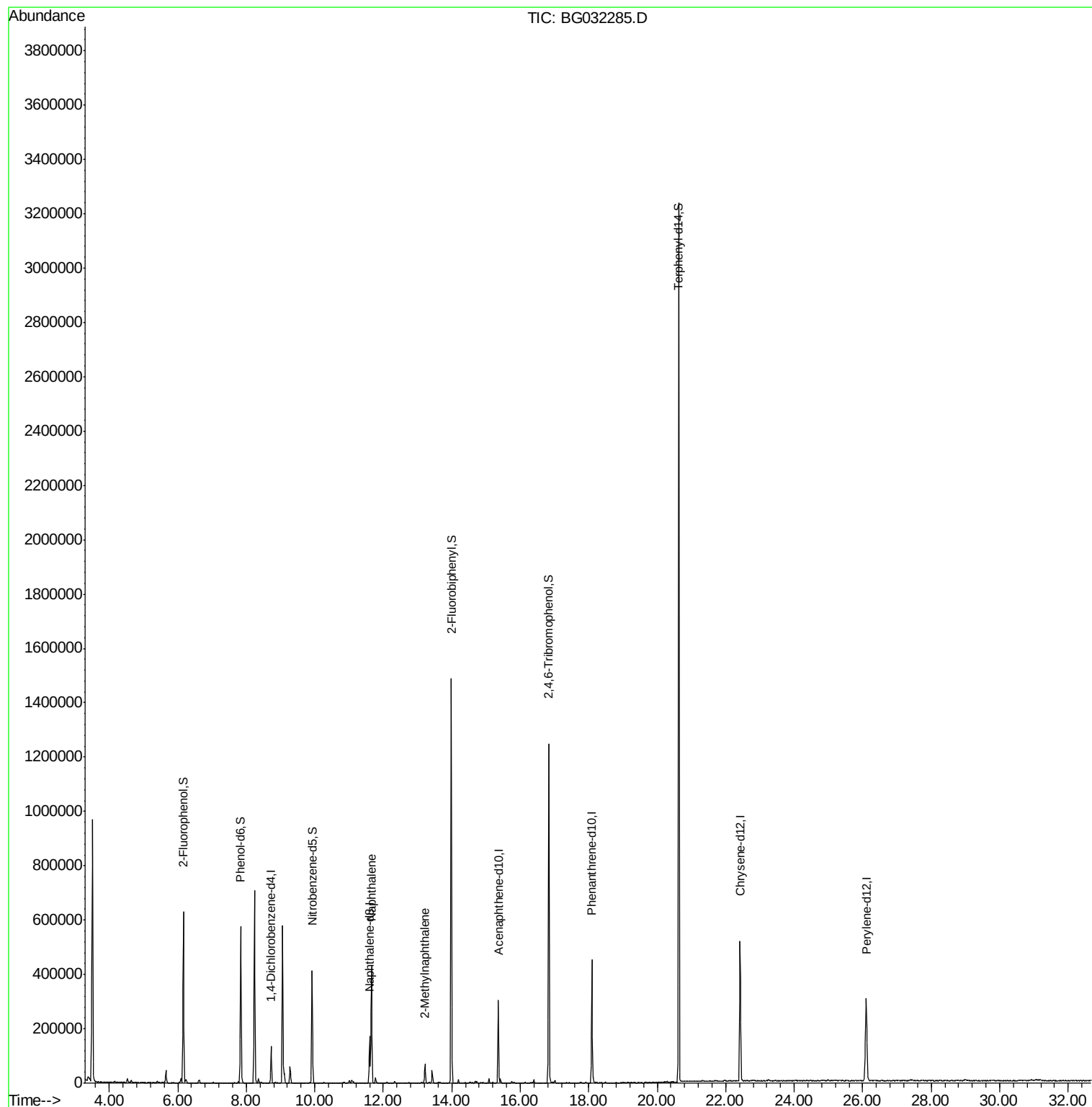
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.73  | 152  | 44981    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 11.60 | 136  | 175498   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 15.36 | 164  | 117259   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 18.09 | 188  | 312834   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 22.42 | 240  | 400945   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 26.10 | 264  | 411449   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 6.16  | 112  | 307597   | 125.07 | ng    | 0.00     |
| 7) Phenol-d6                | 7.84  | 99   | 357637   | 115.46 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.92  | 82   | 256410   | 98.85  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.84 | 330  | 292127   | 150.55 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.99 | 172  | 863351   | 91.29  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.63 | 244  | 1717008  | 94.56  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 11.65 | 128  | 398595   | 45.848 | ng    | 98       |
| 37) 2-Methylnaphthalene     | 13.22 | 142  | 36950    | 5.353  | ng    | 98       |

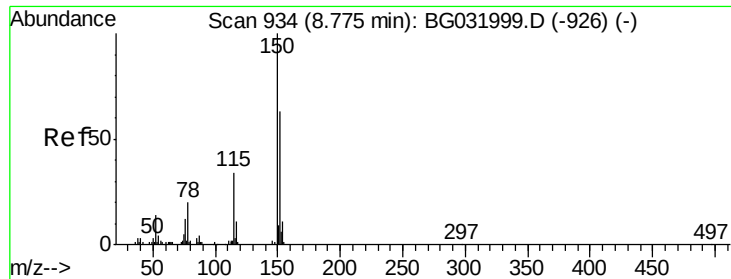
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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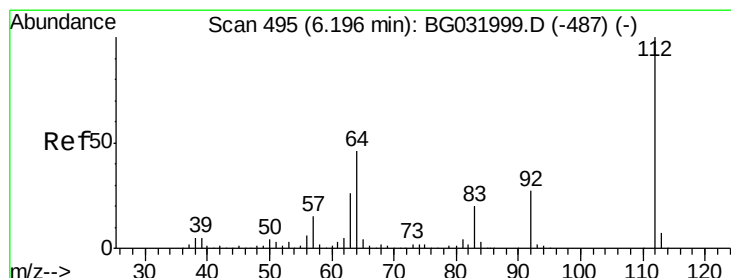
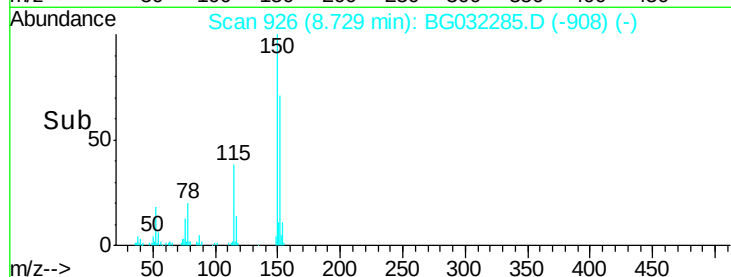
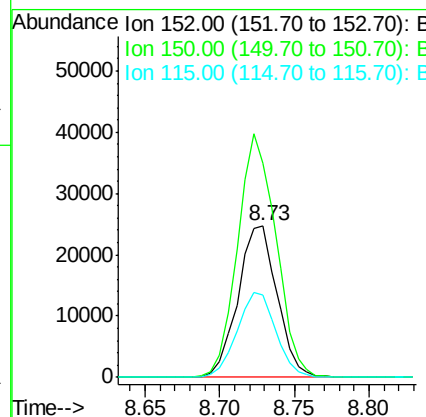
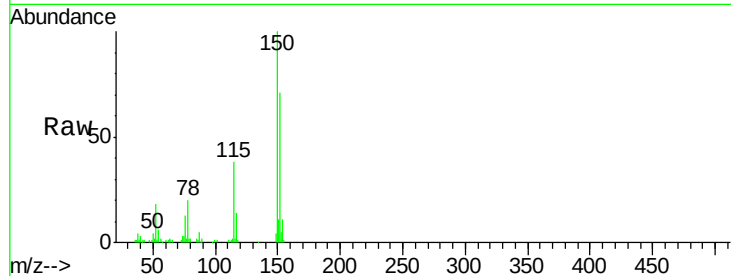


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.73 min Scan# 926  
Delta R.T. 0.01 min  
Lab File: BG032285.D  
Acq: 25 Jan 2018 7:02

Instrument :  
BNA\_G  
ClientSampleId :  
OWS-4

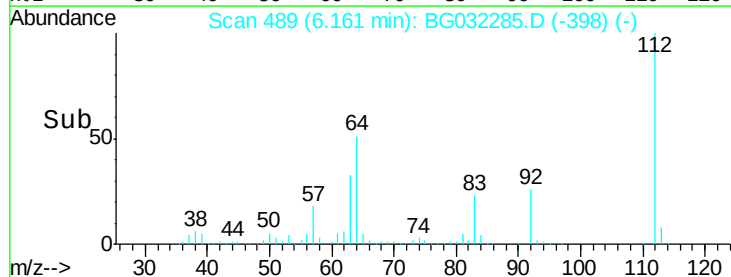
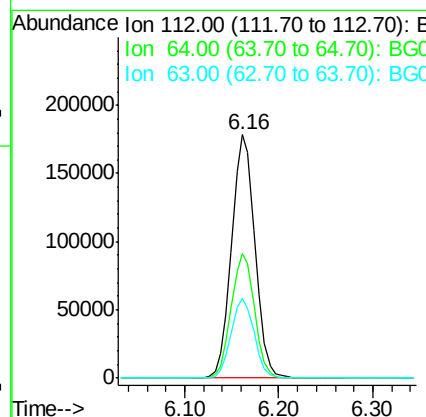
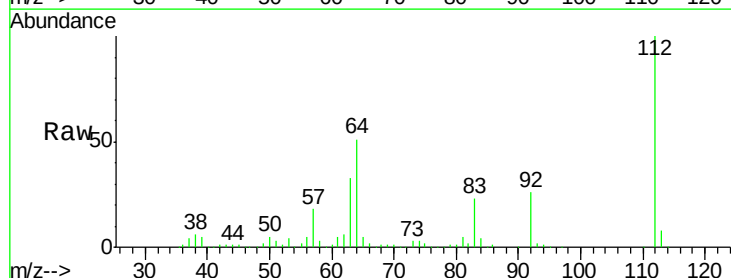
Tgt Ion:152 Resp: 44981  
Ion Ratio Lower Upper  
152 100  
150 141.1 126.6 189.8  
115 54.0 53.0 79.4

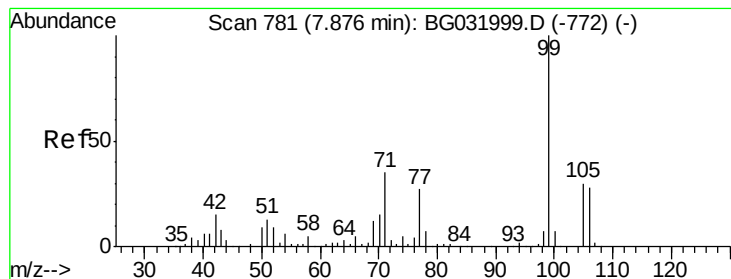


#5

2-Fluorophenol  
Concen: 125.069 ng  
RT: 6.16 min Scan# 489  
Delta R.T. 0.01 min  
Lab File: BG032285.D  
Acq: 25 Jan 2018 7:02

Tgt Ion:112 Resp: 307597  
Ion Ratio Lower Upper  
112 100  
64 50.9 56.3 84.5#  
63 32.7 30.1 45.1





#7

Phenol-d6

Concen: 115.461 ng

RT: 7.84 min Scan# 775

Delta R.T. 0.01 min

Lab File: BG032285.D

Acq: 25 Jan 2018 7:02

Instrument :

BNA\_G

ClientSampleId :

OWS-4

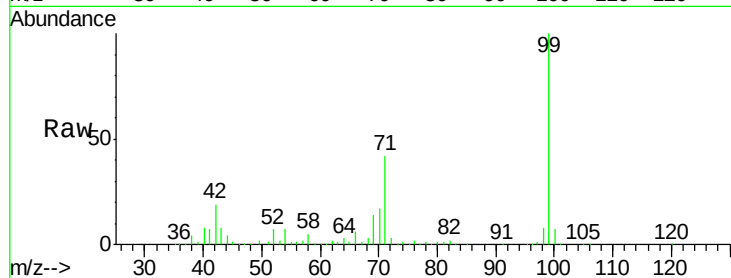
Tgt Ion: 99 Resp: 357637

Ion Ratio Lower Upper

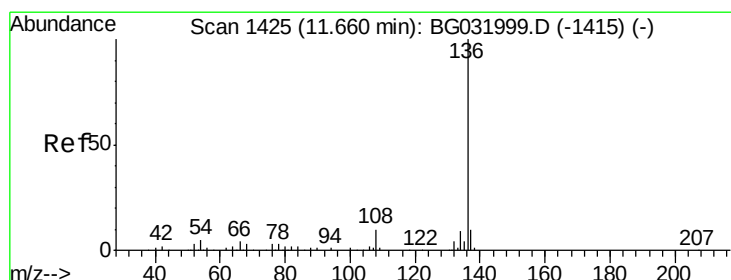
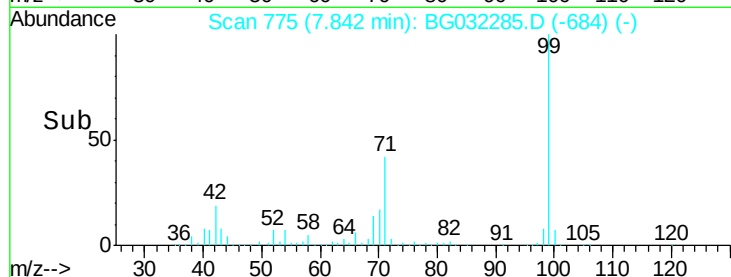
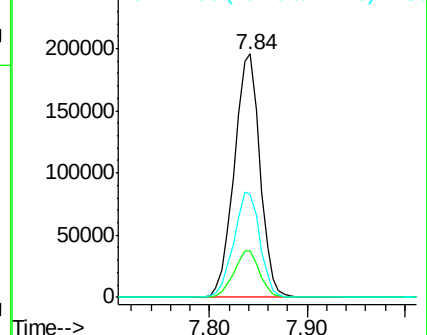
99 100

42 18.8 14.1 21.1

71 42.4 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: 11.60 min Scan# 1415

Delta R.T. -0.01 min

Lab File: BG032285.D

Acq: 25 Jan 2018 7:02

Tgt Ion: 136 Resp: 175498

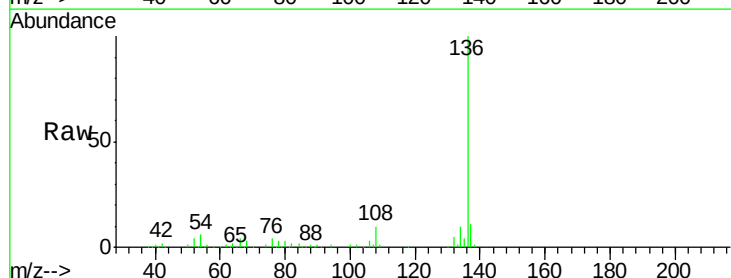
Ion Ratio Lower Upper

136 100

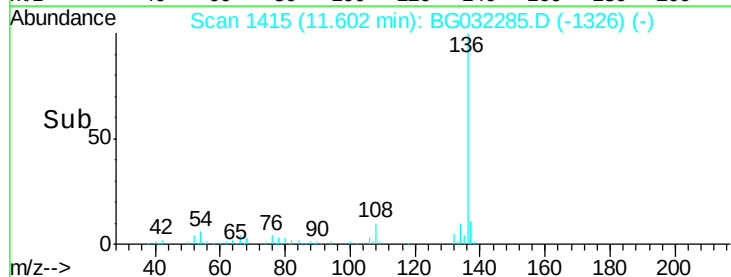
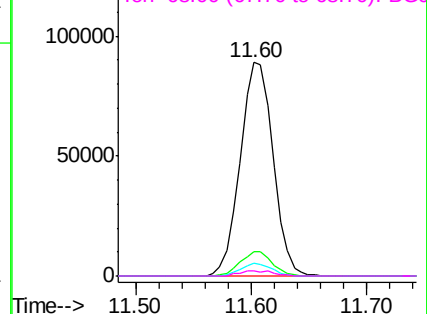
137 11.2 9.2 13.8

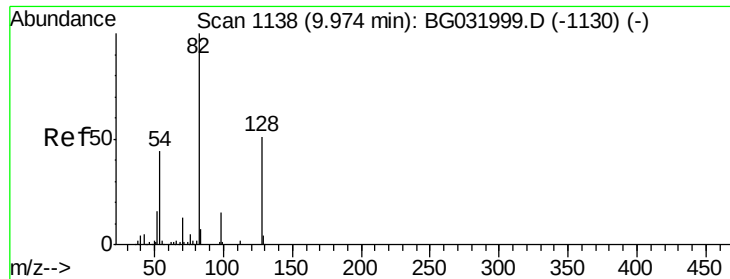
54 6.1 10.3 15.5#

68 2.6 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: 98.846 ng

RT: 9.92 min Scan# 1129

Delta R.T. -0.00 min

Lab File: BG032285.D

Acq: 25 Jan 2018 7:02

Instrument :

BNA\_G

ClientSampleId :

OWS-4

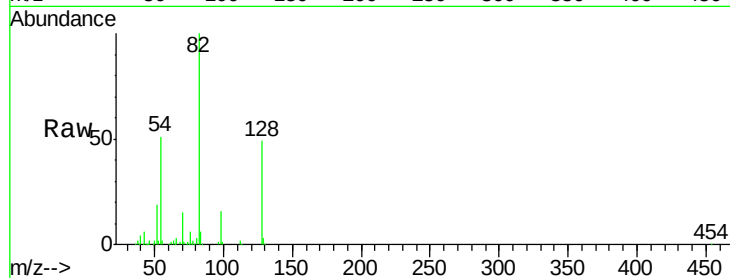
Tgt Ion: 82 Resp: 256410

Ion Ratio Lower Upper

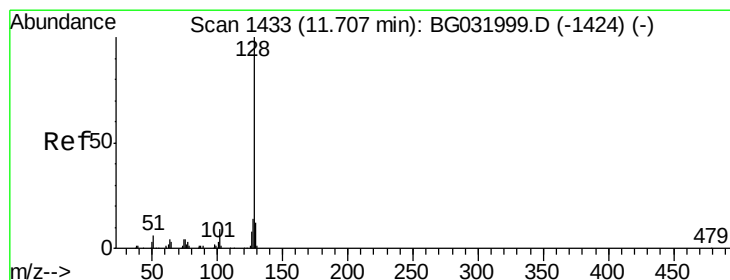
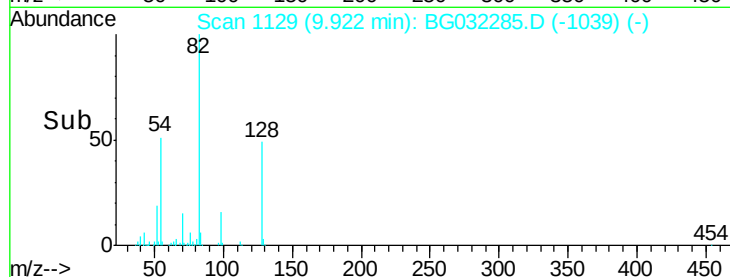
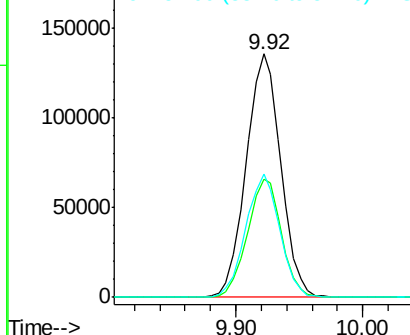
82 100

128 48.7 29.7 44.5#

54 50.6 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: 45.848 ng

RT: 11.65 min Scan# 1424

Delta R.T. -0.01 min

Lab File: BG032285.D

Acq: 25 Jan 2018 7:02

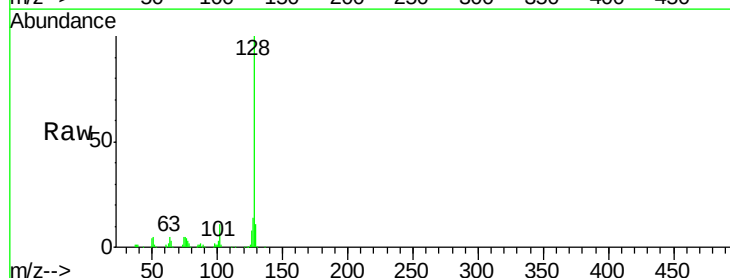
Tgt Ion: 128 Resp: 398595

Ion Ratio Lower Upper

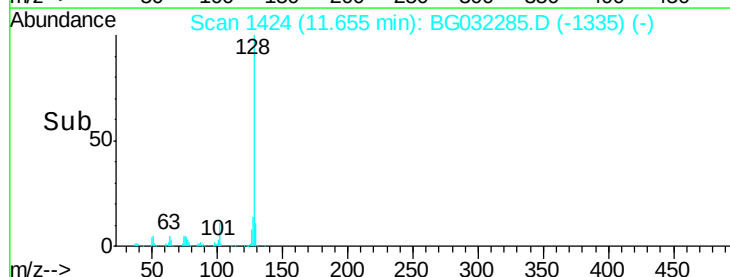
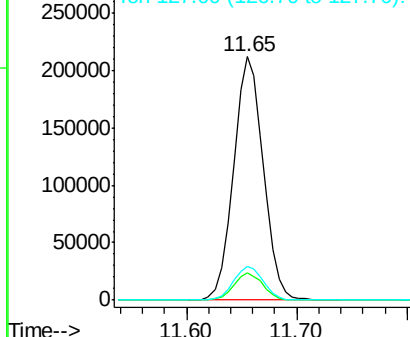
128 100

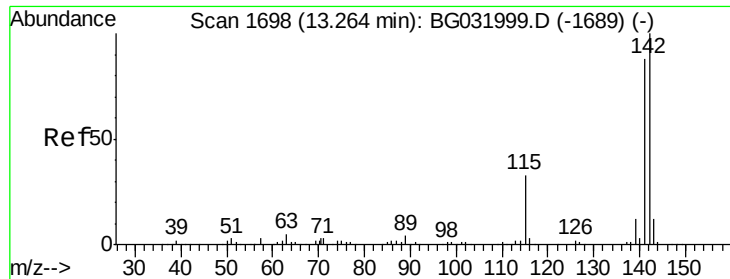
129 11.4 8.6 12.8

127 13.7 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

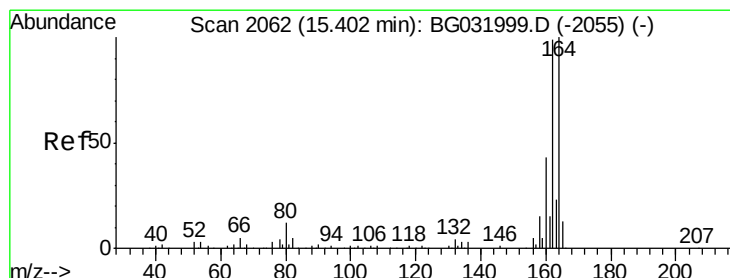
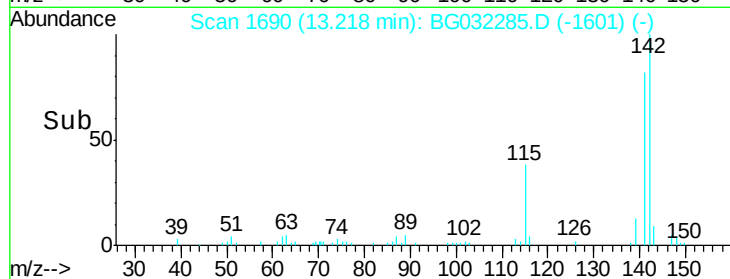
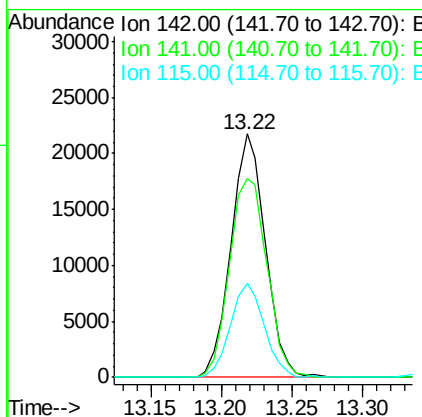
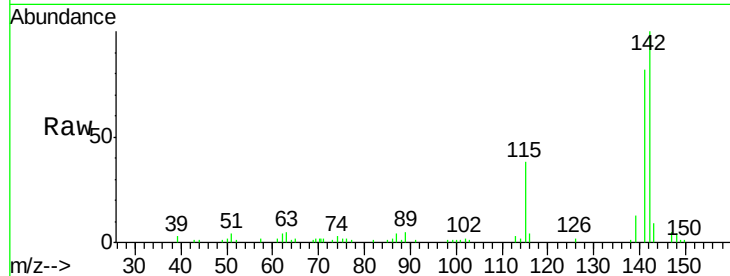




#37  
2-Methylnaphthalene  
Concen: 5.353 ng  
RT: 13.22 min Scan# 1690  
Delta R.T. -0.01 min  
Lab File: BG032285.D  
Acq: 25 Jan 2018 7:02

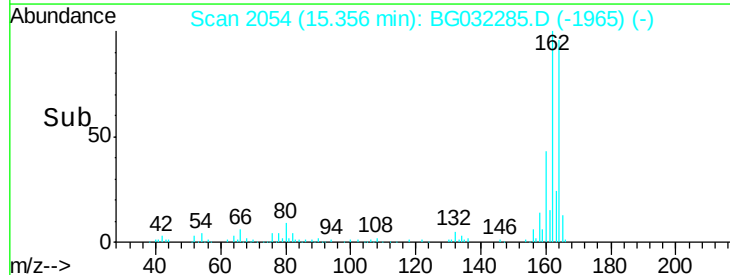
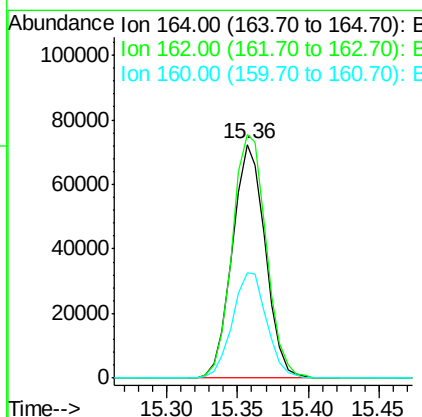
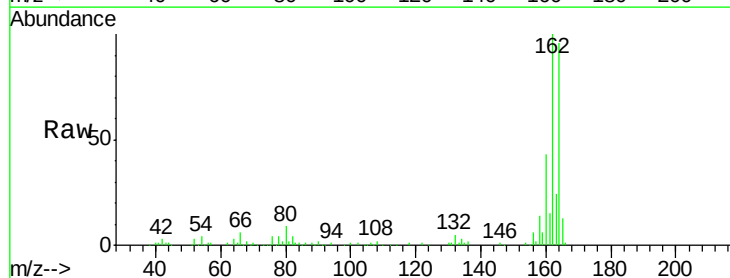
Instrument :  
BNA\_G  
ClientSampleId :  
OWS-4

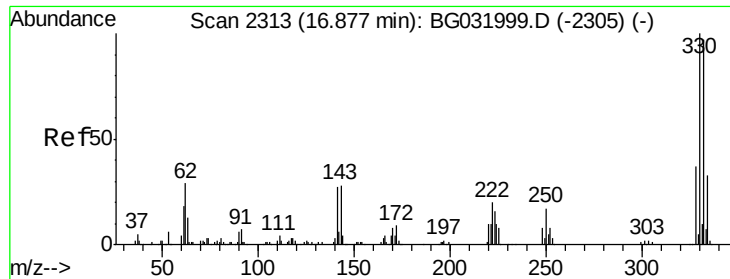
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 81.8  | 67.1  | 100.7 |
| 115     | 38.4  | 30.7  | 46.1  |



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.36 min Scan# 2054  
Delta R.T. -0.01 min  
Lab File: BG032285.D  
Acq: 25 Jan 2018 7:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.0 | 78.8  | 118.2 |
| 160     | 45.2  | 35.4  | 53.0  |





#41

2,4,6-Tribromophenol

Concen: 150.553 ng

RT: 16.84 min Scan# 2306

Delta R.T. -0.00 min

Lab File: BG032285.D

Acq: 25 Jan 2018 7:02

Instrument :

BNA\_G

ClientSampleId :

OWS-4

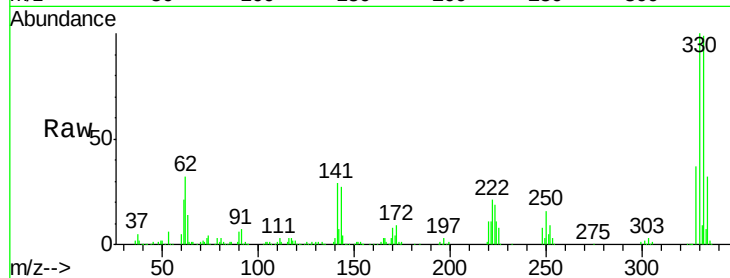
Tgt Ion:330 Resp: 292127

Ion Ratio Lower Upper

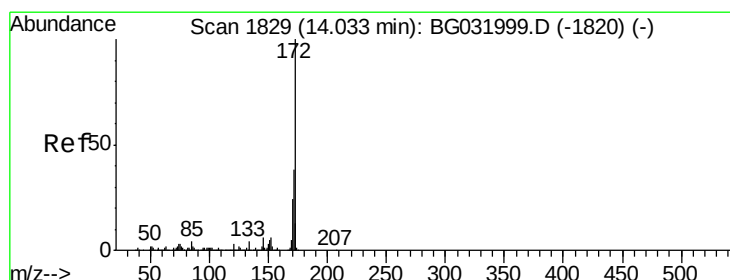
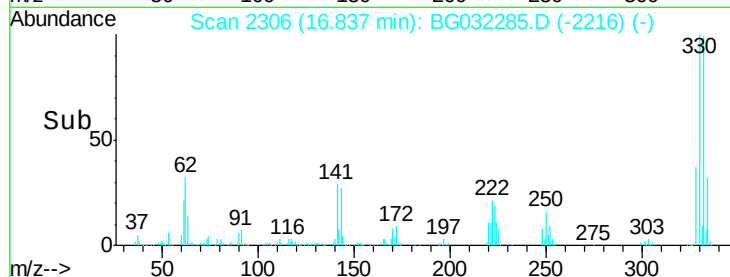
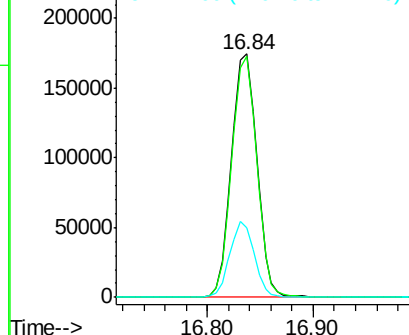
330 100

332 97.4 77.0 115.6

141 30.0 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: 91.295 ng

RT: 13.99 min Scan# 1821

Delta R.T. -0.00 min

Lab File: BG032285.D

Acq: 25 Jan 2018 7:02

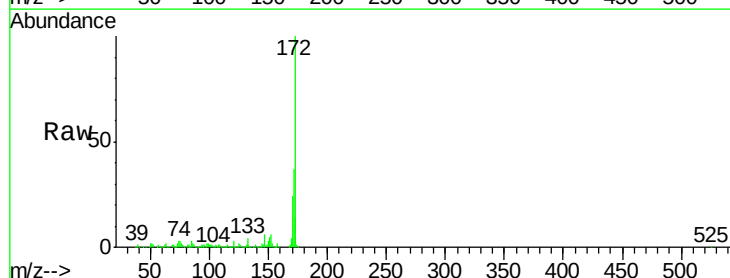
Tgt Ion:172 Resp: 863351

Ion Ratio Lower Upper

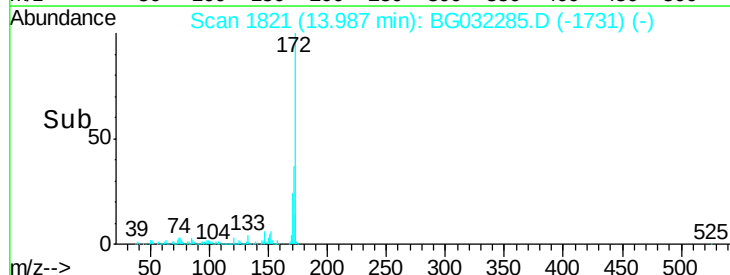
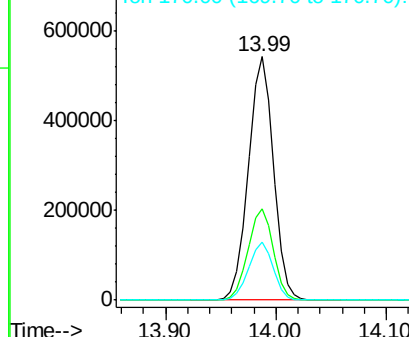
172 100

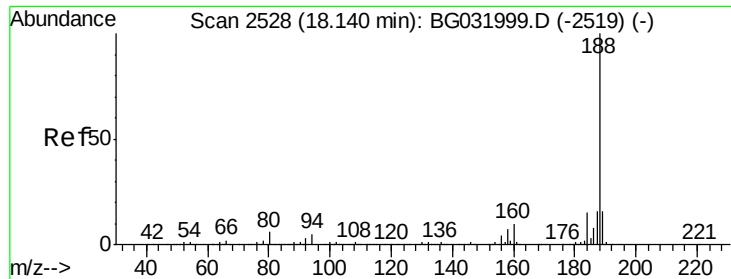
171 37.4 30.0 45.0

170 23.7 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

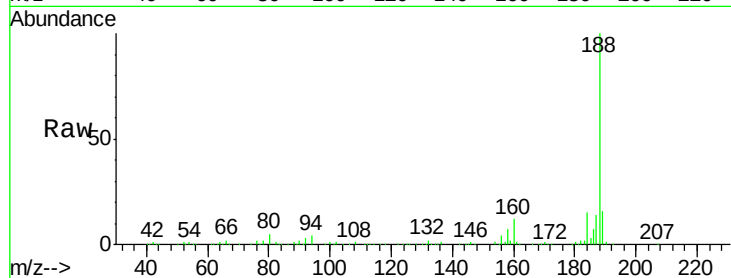




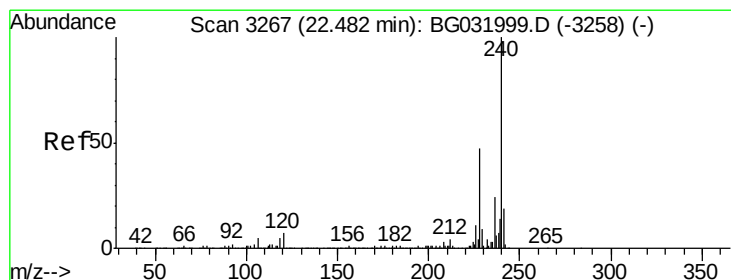
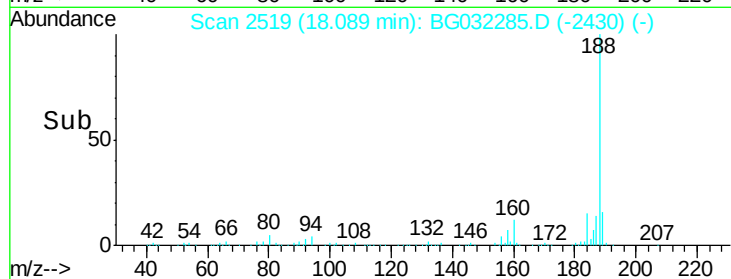
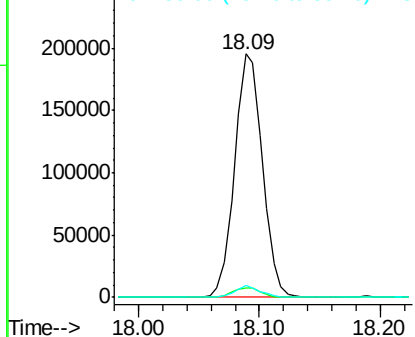
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.09 min Scan# 2519  
Delta R.T. -0.01 min  
Lab File: BG032285.D  
Acq: 25 Jan 2018 7:02

Instrument :  
BNA\_G  
ClientSampleId :  
OWS-4

Tgt Ion:188 Resp: 312834  
Ion Ratio Lower Upper  
188 100  
94 3.8 6.9 10.3#  
80 4.9 7.7 11.5#

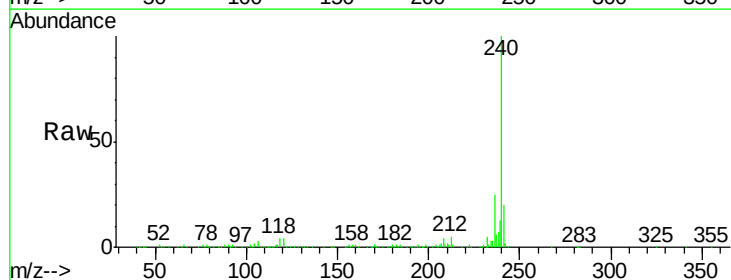


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

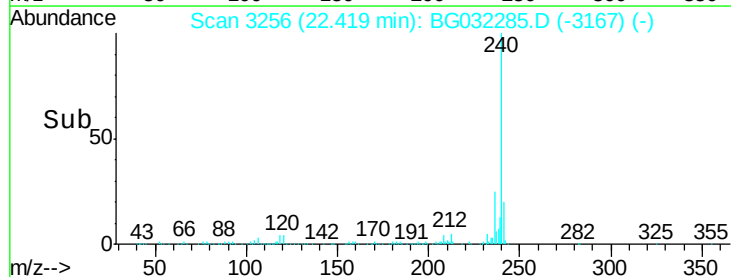
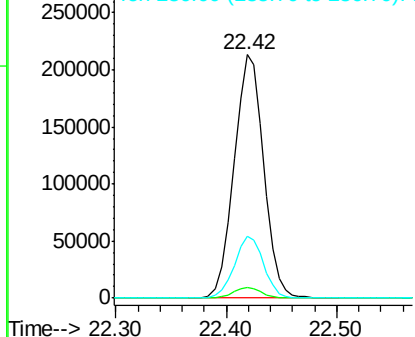


#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.42 min Scan# 3256  
Delta R.T. -0.01 min  
Lab File: BG032285.D  
Acq: 25 Jan 2018 7:02

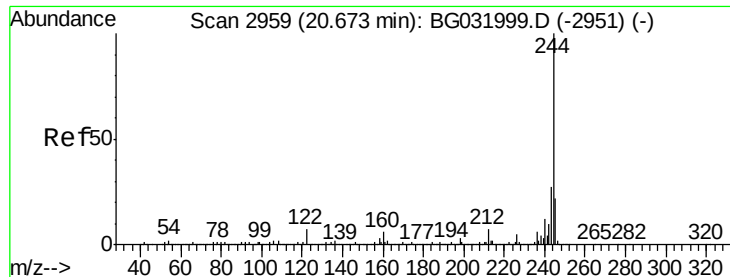
Tgt Ion:240 Resp: 400945  
Ion Ratio Lower Upper  
240 100  
120 4.5 6.8 10.2#  
236 25.3 20.9 31.3



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: 94.557 ng

RT: 20.63 min Scan# 2951

Delta R.T. -0.01 min

Lab File: BG032285.D

Acq: 25 Jan 2018 7:02

Instrument :

BNA\_G

ClientSampleId :

OWS-4

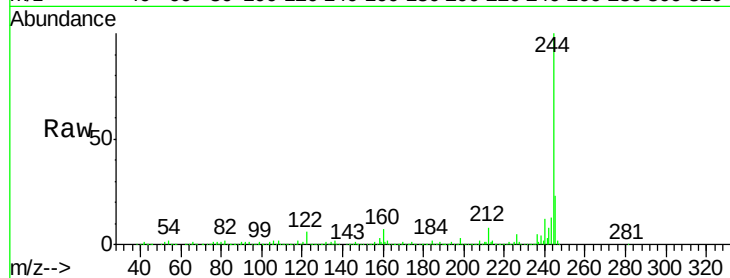
Tgt Ion:244 Resp: 1717008

Ion Ratio Lower Upper

244 100

212 7.9 5.8 8.8

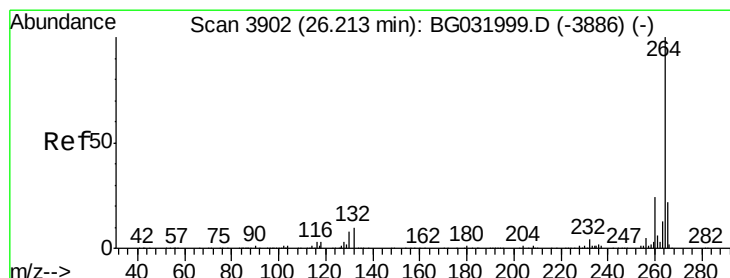
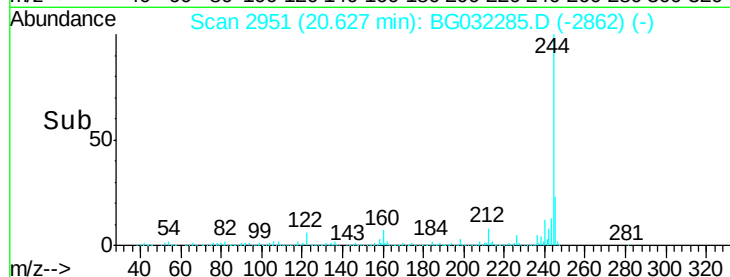
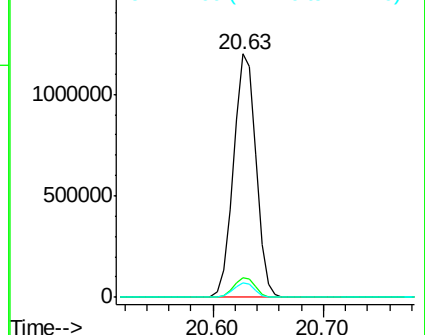
122 6.0 7.0 10.4#



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# 3882

Delta R.T. -0.01 min

Lab File: BG032285.D

Acq: 25 Jan 2018 7:02

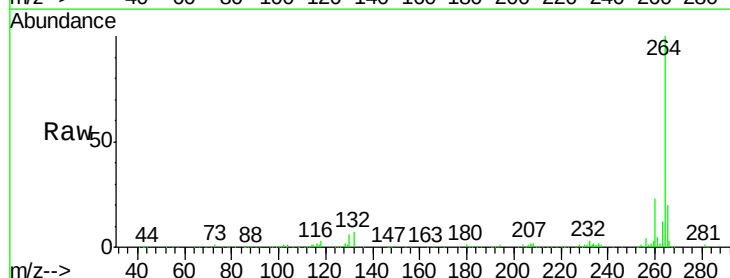
Tgt Ion:264 Resp: 411449

Ion Ratio Lower Upper

264 100

260 23.0 17.4 26.0

265 20.5 17.7 26.5



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

