

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG121117\  
 Data File : BG031480.D  
 Acq On : 12 Dec 2017 7:35  
 Operator : SJ/JU  
 Sample : I6766-05  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 12 11:16:43 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG121117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 11 17:25:55 2017  
 Response via : Initial Calibration

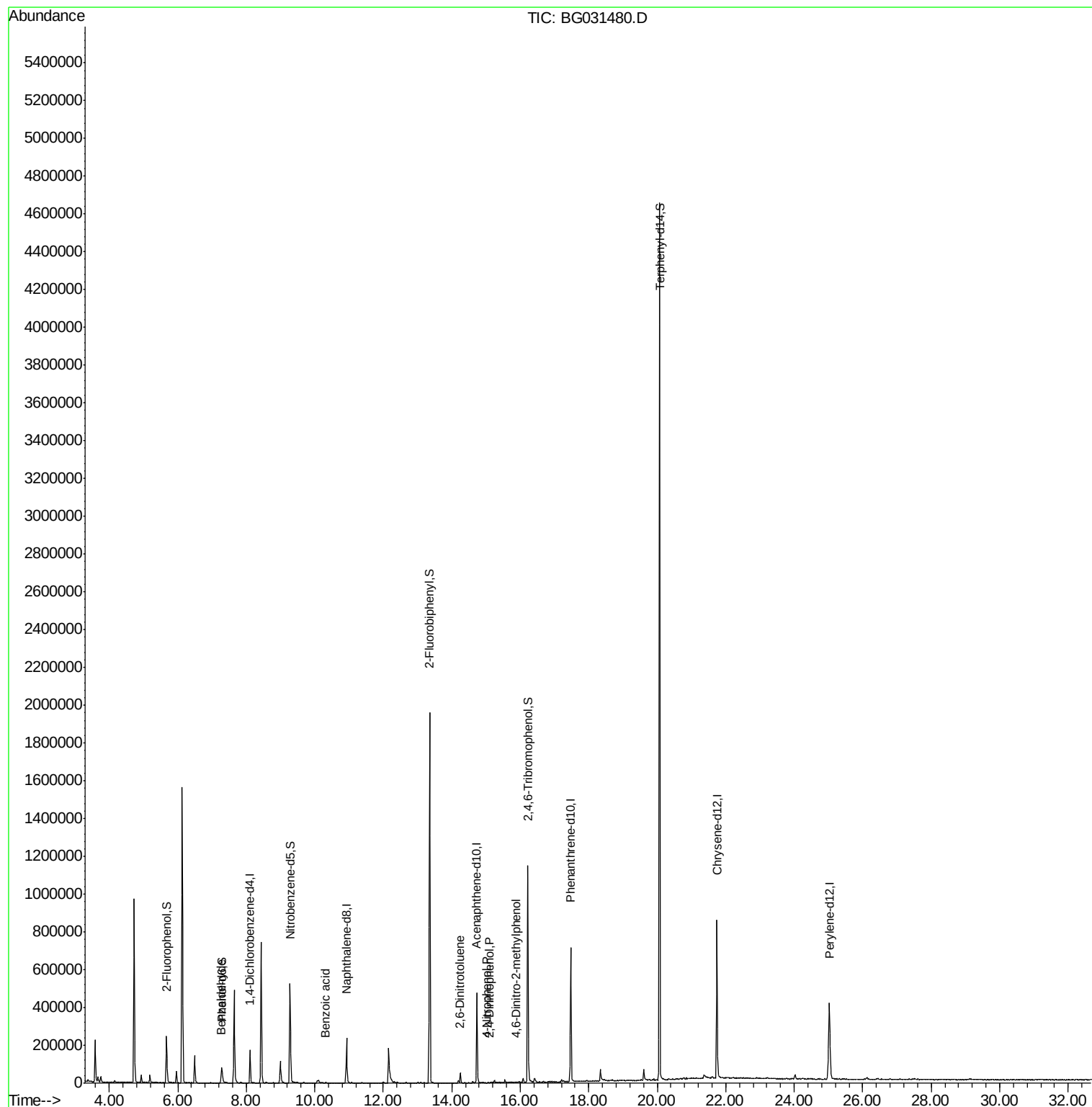
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.11  | 152  | 51959    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.93 | 136  | 236030   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.73 | 164  | 172538   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.48 | 188  | 475119   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.74 | 240  | 530643   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 25.03 | 264  | 466885   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.67  | 112  | 134448   | 45.87  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.28  | 99   | 65845    | 16.18  | ng    | 0.01     |
| 23) Nitrobenzene-d5            | 9.27  | 82   | 364710   | 95.24  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.22 | 330  | 232896   | 115.22 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.35 | 172  | 1102801  | 93.82  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.07 | 244  | 1970294  | 84.48  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 7.25  | 77   | 6646     | 2.818  | ng    | 95       |
| 32) Benzoic acid               | 10.31 | 122  | 693      | 7.404  | ng    | # 69     |
| 50) 2,6-Dinitrotoluene         | 14.25 | 165  | 9375     | 3.071  | ng    | # 18     |
| 53) 2,4-Dinitrophenol          | 15.11 | 184  | 53       | 9.088  | ng    | # 1      |
| 55) 4-Nitrophenol              | 15.01 | 139  | 54       | 3.567  | ng    | # 30     |
| 64) 4,6-Dinitro-2-methylphenol | 15.88 | 198  | 55       | 4.926  | ng    | # 29     |

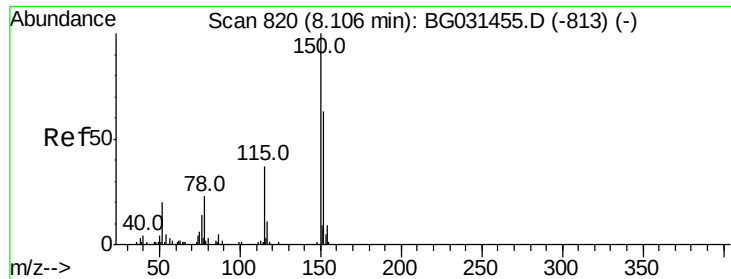
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_G  
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Quant Time: Dec 12 11:16:43 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG121117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 11 17:25:55 2017  
Response via : Initial Calibration



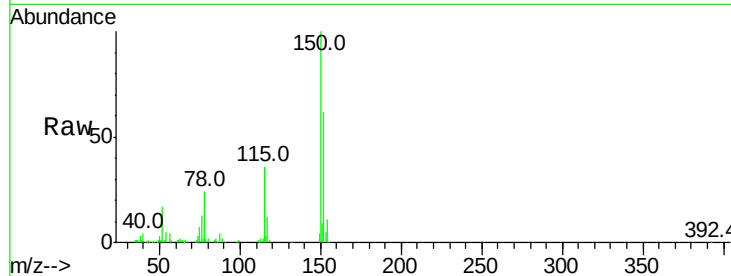


#1

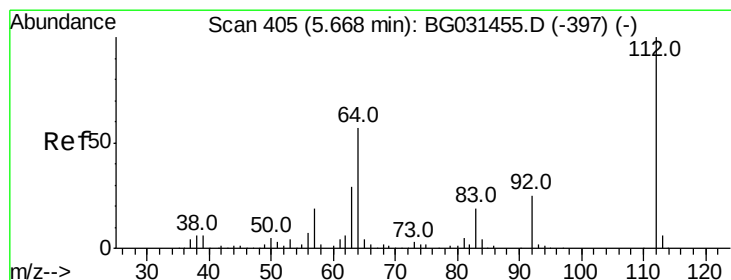
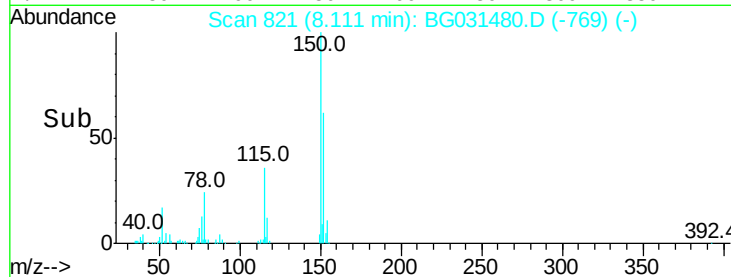
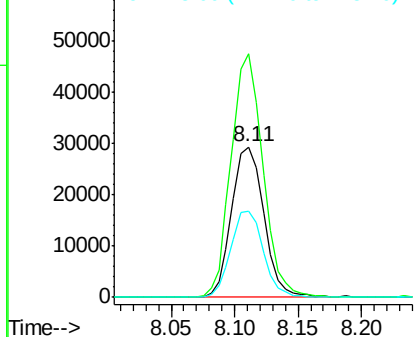
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.11 min Scan# 821  
Delta R.T. 0.00 min  
Lab File: BG031480.D  
Acq: 12 Dec 2017 7:35

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.7 | 126.6 | 189.8 |
| 115     | 57.5  | 53.0  | 79.4  |



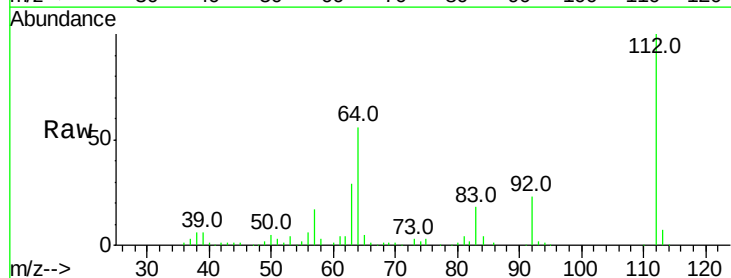
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



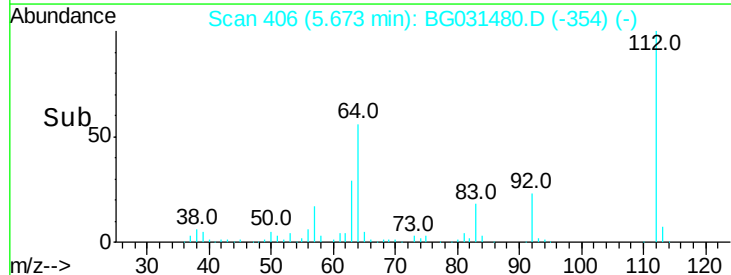
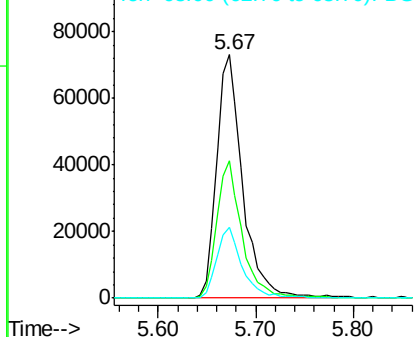
#5

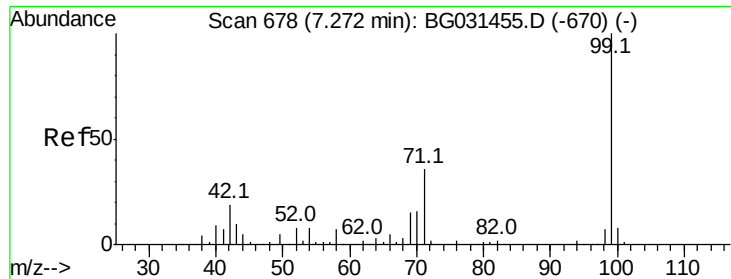
2-Fluorophenol  
Concen: 45.865 ng  
RT: 5.67 min Scan# 406  
Delta R.T. 0.01 min  
Lab File: BG031480.D  
Acq: 12 Dec 2017 7:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.2  | 56.3  | 84.5# |
| 63      | 29.3  | 30.1  | 45.1# |



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: 16.180 ng

RT: 7.28 min Scan# 680

Delta R.T. 0.01 min

Lab File: BG031480.D

Acq: 12 Dec 2017 7:35

Instrument :

BNA\_G

ClientSampleId :

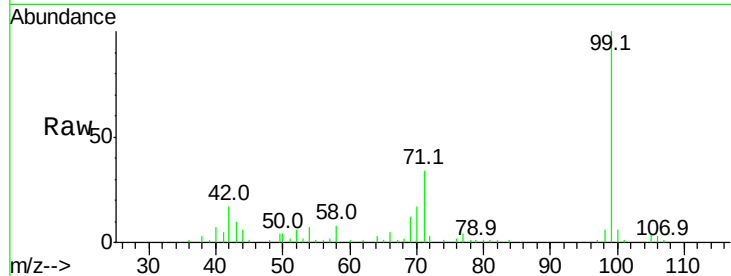
Tot Ion: 99 Resp: 65845

Ion Ratio Lower Upper

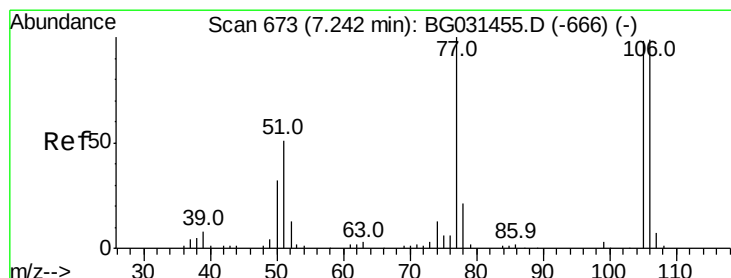
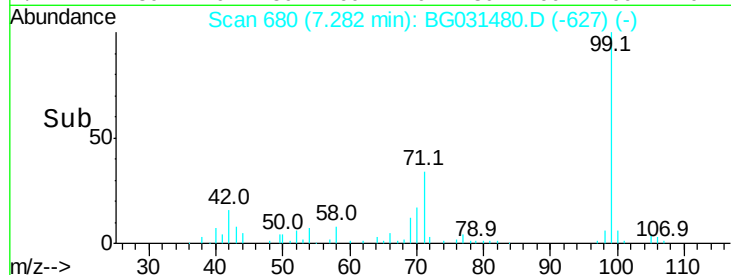
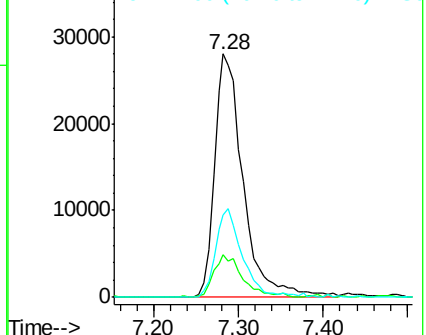
99 100

42 17.3 14.1 21.1

71 34.0 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



#9

Benzaldehyde

Concen: 2.818 ng

RT: 7.25 min Scan# 675

Delta R.T. 0.01 min

Lab File: BG031480.D

Acq: 12 Dec 2017 7:35

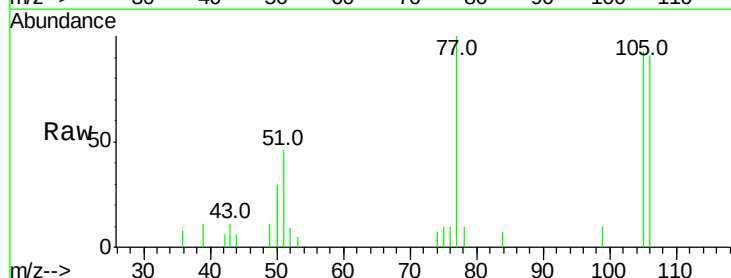
Tgt Ion: 77 Resp: 6646

Ion Ratio Lower Upper

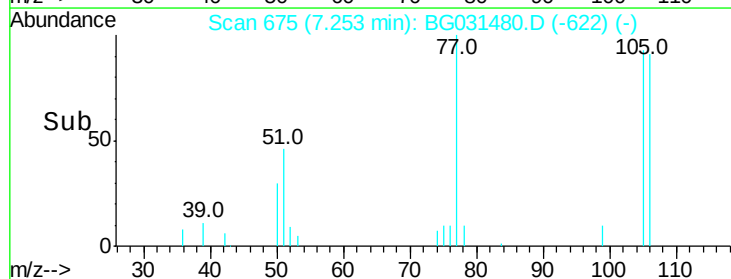
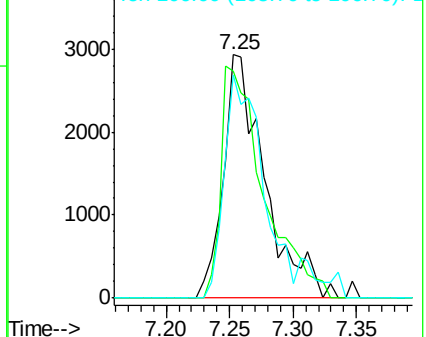
77 100

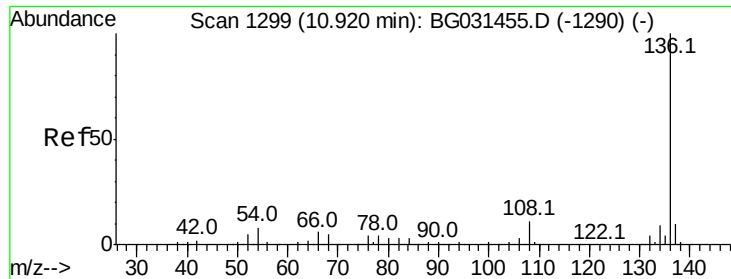
105 93.4 71.3 111.3

106 91.4 64.2 104.2



Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 105.00 (104.70 to 105.70): BGC  
Ion 106.00 (105.70 to 106.70): BGC

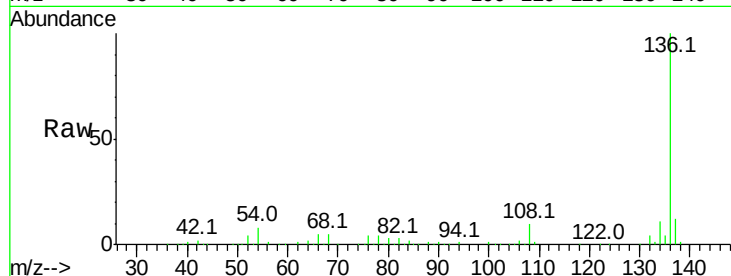




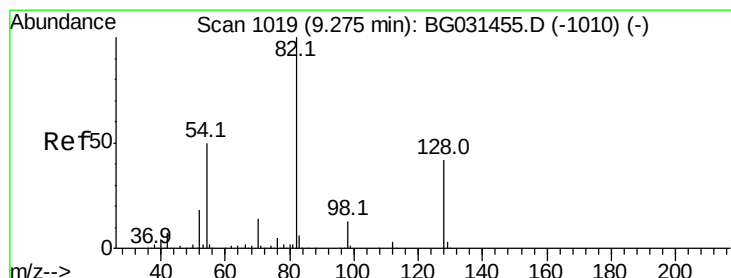
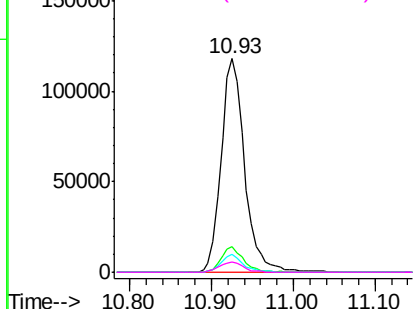
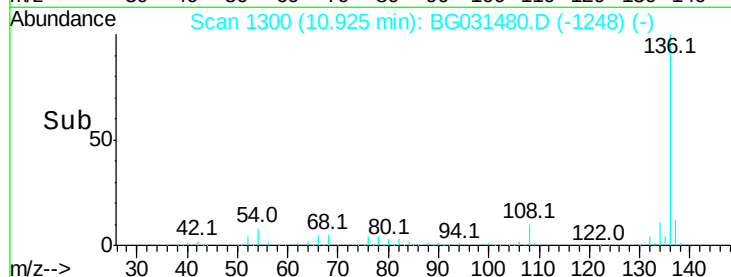
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.93 min Scan# 1300  
Delta R.T. 0.00 min  
Lab File: BG031480.D  
Acq: 12 Dec 2017 7:35

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 236030 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.7  | 9.2   | 13.8   |
| 54       | 8.1   | 10.3  | 15.5#  |
| 68       | 5.1   | 4.5   | 6.7    |

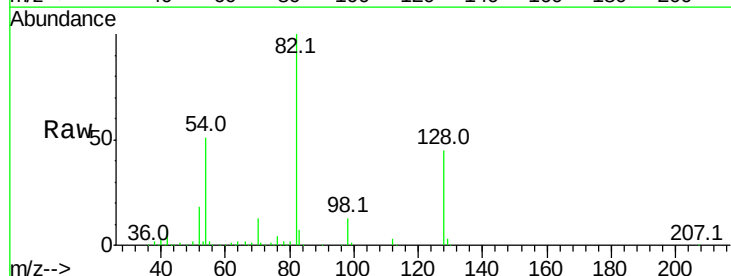


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

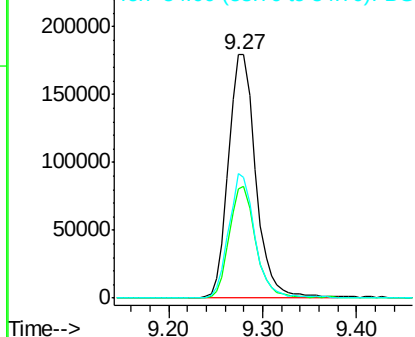
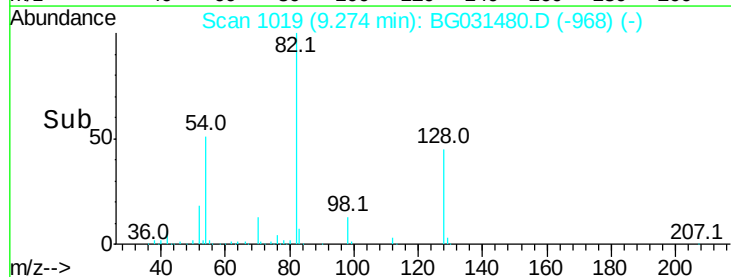


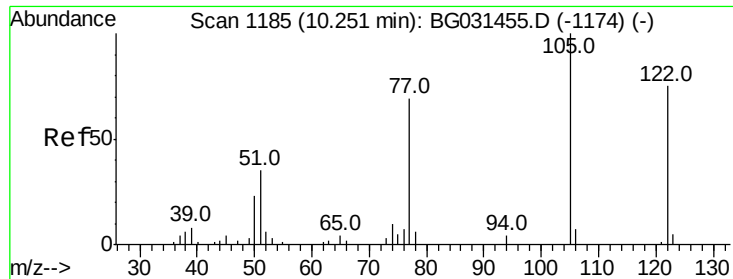
#23  
Nitrobenzene-d5  
Concen: 95.240 ng  
RT: 9.27 min Scan# 1019  
Delta R.T. -0.00 min  
Lab File: BG031480.D  
Acq: 12 Dec 2017 7:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 364710 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.9  | 29.7  | 44.5#  |
| 54       | 51.2  | 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





#32

Benzoic acid

Concen: 7.404 ng

RT: 10.31 min Scan# 1195

Delta R.T. 0.06 min

Lab File: BG031480.D

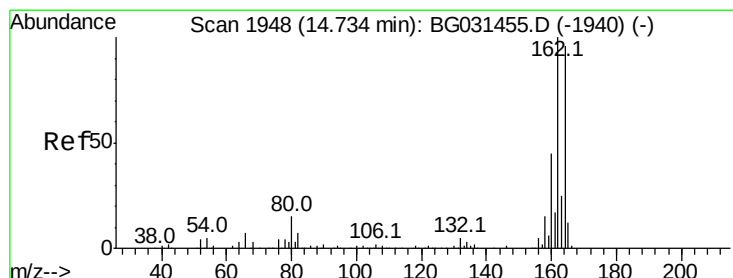
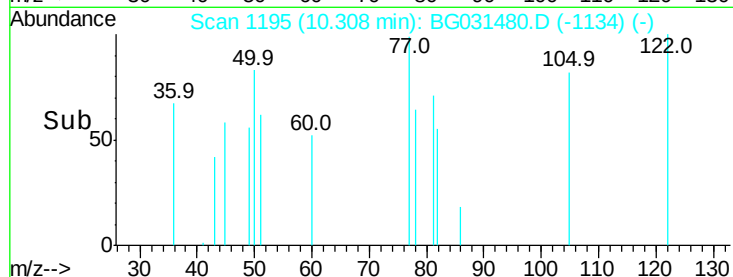
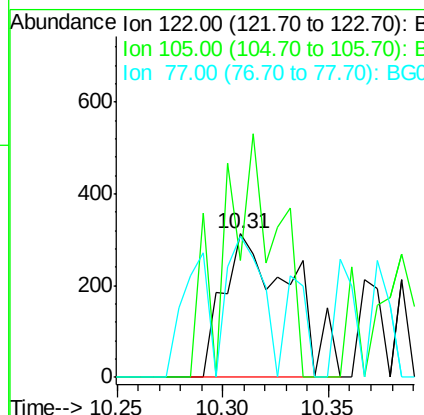
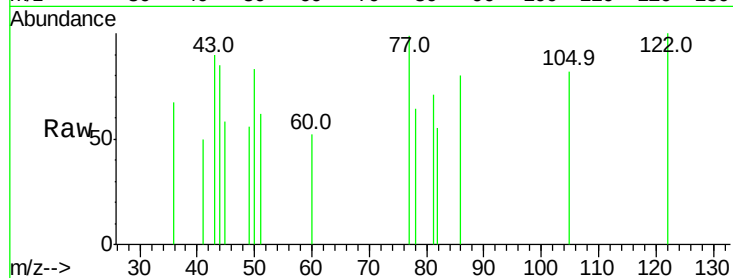
Acq: 12 Dec 2017 7:35

Instrument :

BNA\_G

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 122   | Resp: | 693    |
| Ion      | Ratio | Lower | Upper  |
| 122      | 100   |       |        |
| 105      | 82.1  | 123.5 | 163.5# |
| 77       | 99.0  | 85.7  | 125.7  |



#38

Acenaphthene-d10

Concen: 20.000 ng

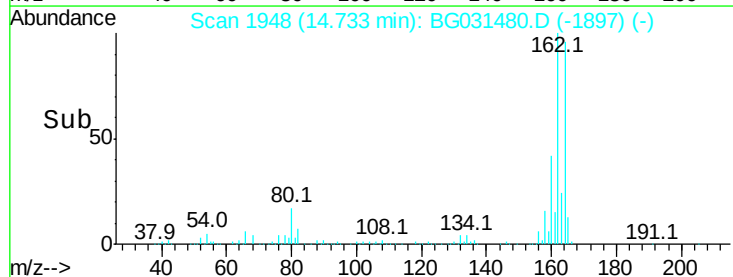
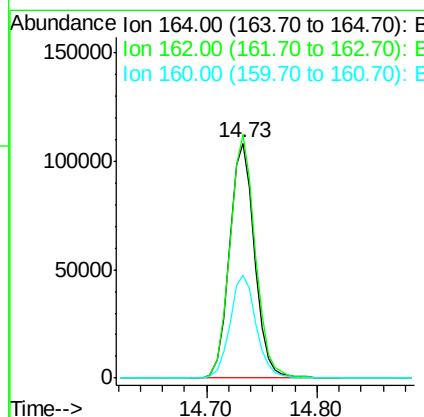
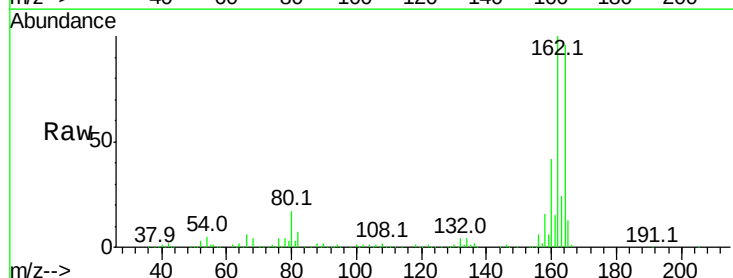
RT: 14.73 min Scan# 1948

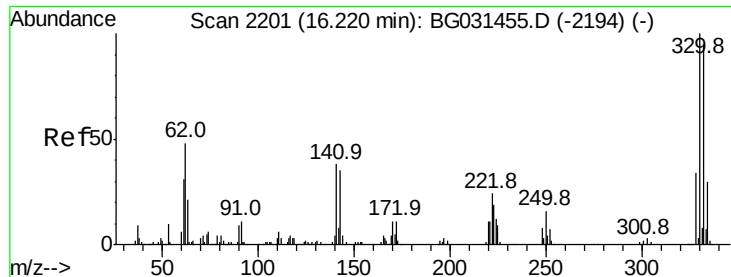
Delta R.T. -0.00 min

Lab File: BG031480.D

Acq: 12 Dec 2017 7:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 172538 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 162      | 103.6 | 78.8  | 118.2  |
| 160      | 44.0  | 35.4  | 53.0   |

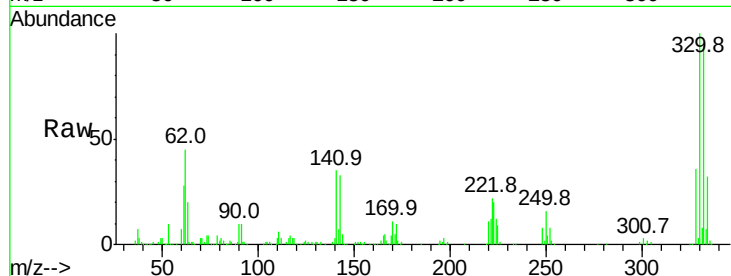




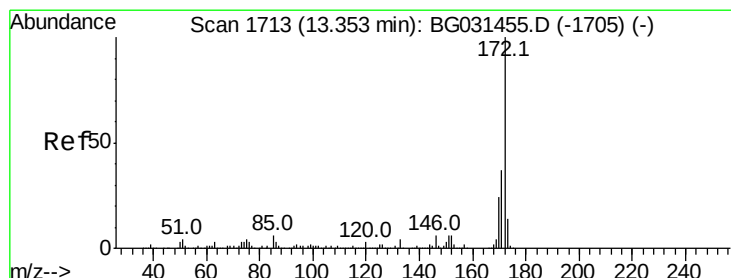
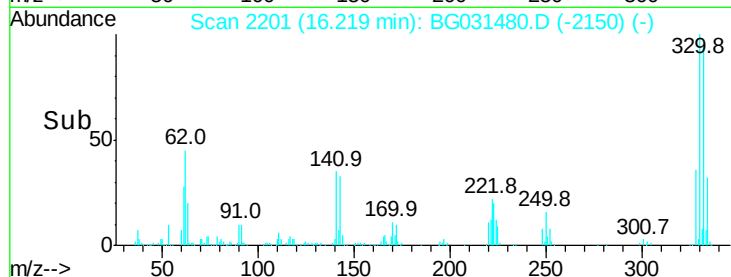
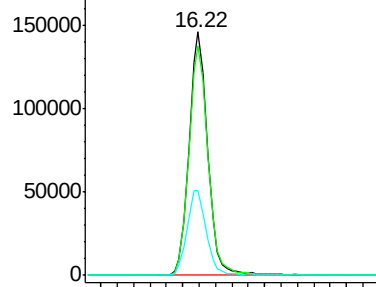
#41  
 2,4,6-Tribromophenol  
 Concen: 115.218 ng  
 RT: 16.22 min Scan# 2201  
 Delta R.T. -0.00 min  
 Lab File: BG031480.D  
 Acq: 12 Dec 2017 7:35

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.9  | 77.0  | 115.6 |
| 141     | 36.5  | 25.2  | 37.8  |

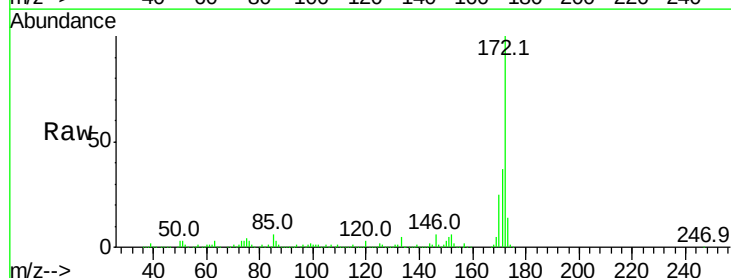


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

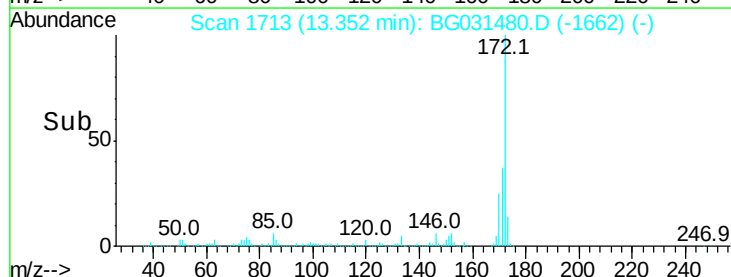
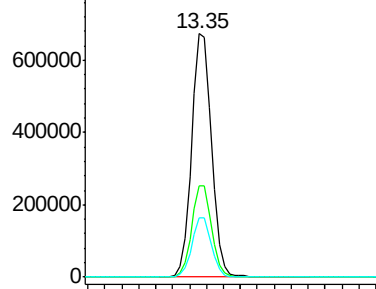


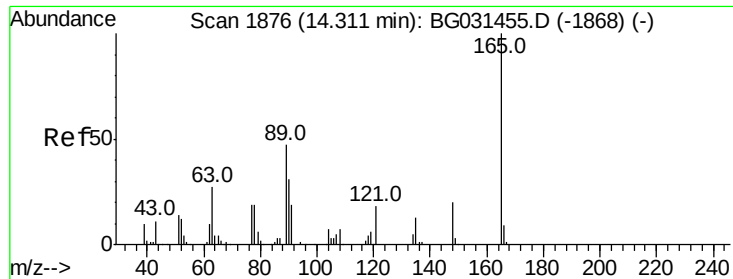
#44  
 2-Fluorobiphenyl  
 Concen: 93.821 ng  
 RT: 13.35 min Scan# 1713  
 Delta R.T. -0.00 min  
 Lab File: BG031480.D  
 Acq: 12 Dec 2017 7:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.3  | 30.0  | 45.0  |
| 170     | 24.5  | 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

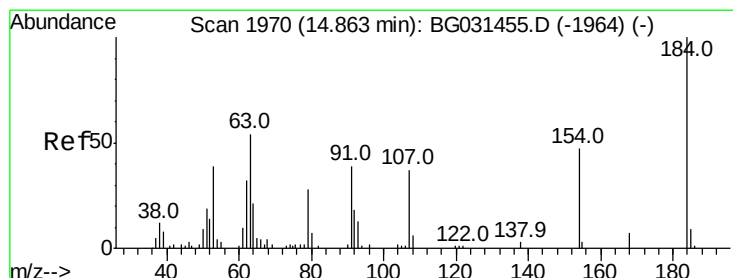
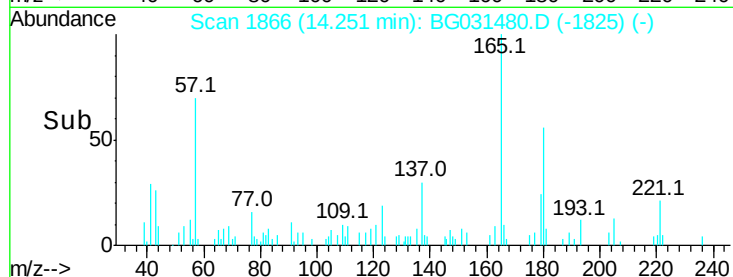
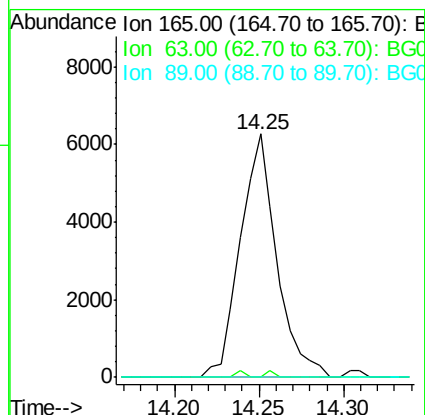
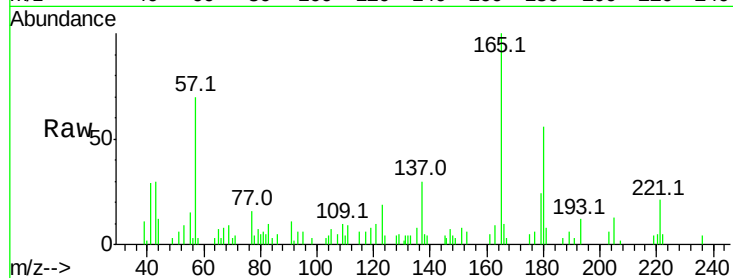




#50  
2,6-Dinitrotoluene  
Concen: 3.071 ng  
RT: 14.25 min Scan# 1866  
Delta R.T. -0.06 min  
Lab File: BG031480.D  
Acq: 12 Dec 2017 7:35

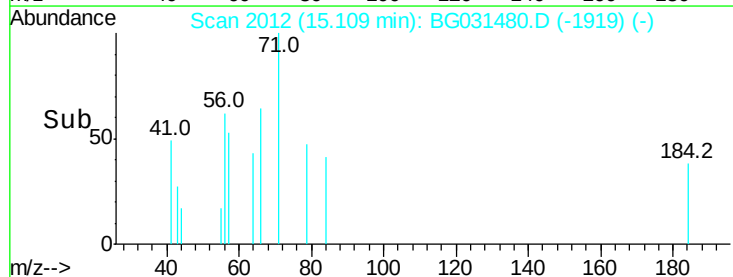
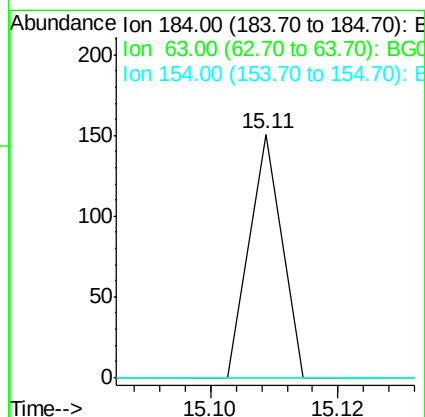
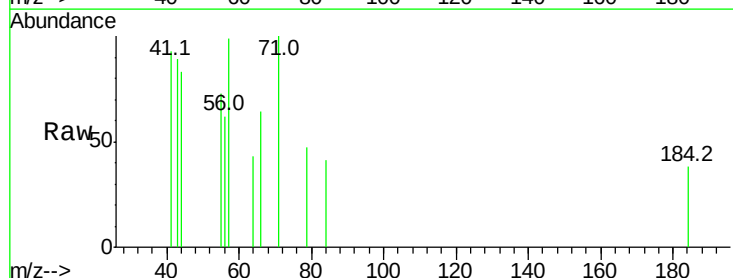
Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:165 Resp: 9375  
Ion Ratio Lower Upper  
165 100  
63 0.0 52.7 79.1#  
89 0.0 49.2 73.8#

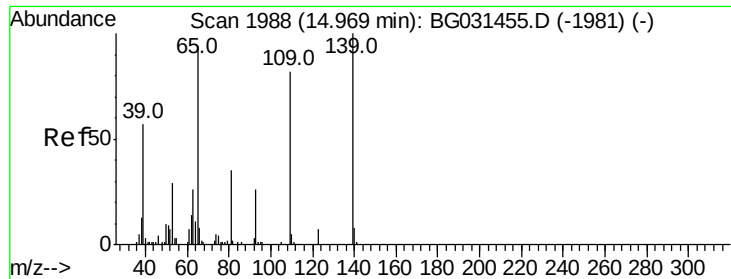


#53  
2,4-Dinitrophenol  
Concen: 9.088 ng  
RT: 15.11 min Scan# 2012  
Delta R.T. 0.25 min  
Lab File: BG031480.D  
Acq: 12 Dec 2017 7:35

Tgt Ion:184 Resp: 53  
Ion Ratio Lower Upper  
184 100  
63 0.0 59.8 89.8#  
154 0.0 101.8 152.8#



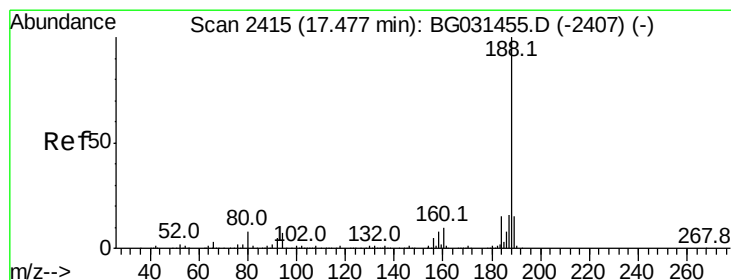
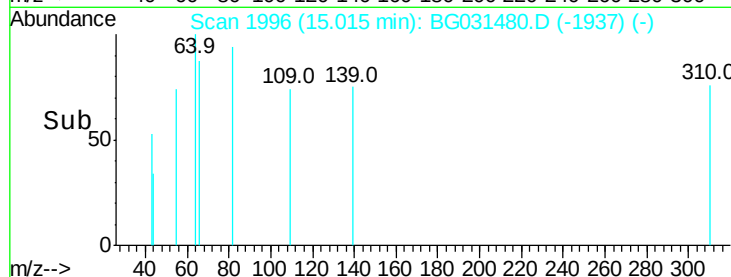
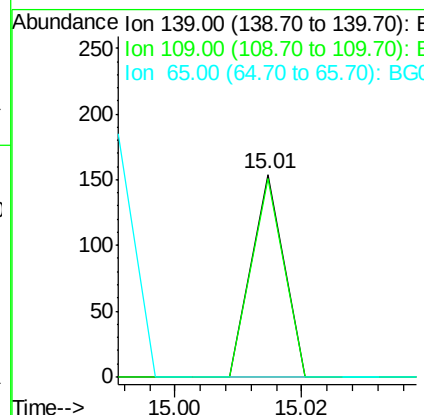
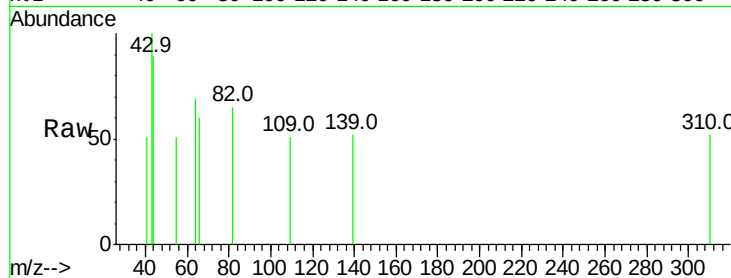




#55  
4-Nitrophenol  
Concen: 3.567 ng  
RT: 15.01 min Scan# 1996  
Delta R.T. 0.05 min  
Lab File: BG031480.D  
Acq: 12 Dec 2017 7:35

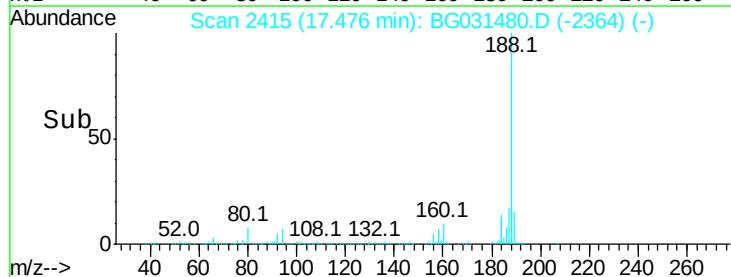
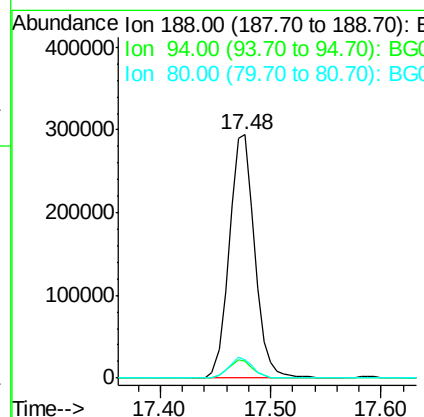
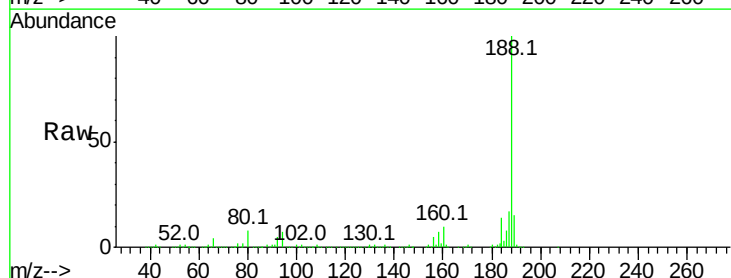
Instrument :  
BNA\_G  
ClientSampleId :

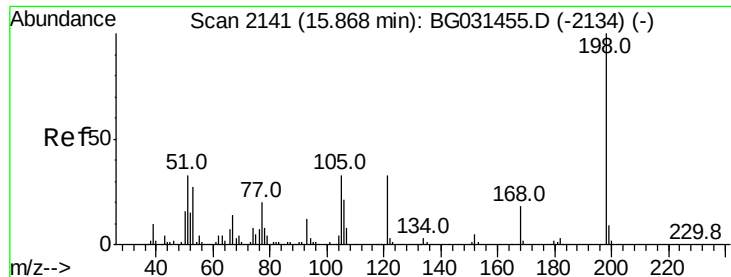
Tot Ion:139 Resp: 54  
Ion Ratio Lower Upper  
139 100  
109 98.1 62.2 102.2  
65 0.0 97.2 137.2#



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.48 min Scan# 2415  
Delta R.T. -0.00 min  
Lab File: BG031480.D  
Acq: 12 Dec 2017 7:35

Tgt Ion:188 Resp: 475119  
Ion Ratio Lower Upper  
188 100  
94 7.1 6.9 10.3  
80 7.6 7.7 11.5#

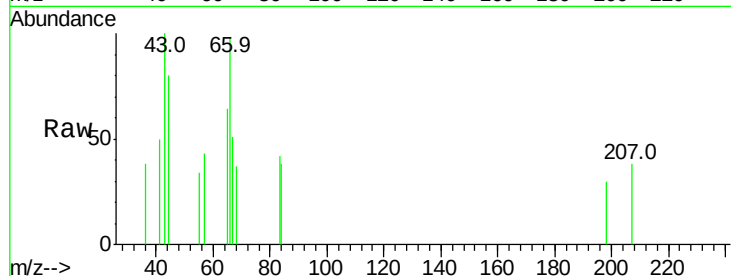




#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 4.926 ng  
 RT: 15.88 min Scan# 2143  
 Delta R.T. 0.01 min  
 Lab File: BG031480.D  
 Acq: 12 Dec 2017 7:35

Instrument :  
 BNA\_G  
 ClientSampleId :

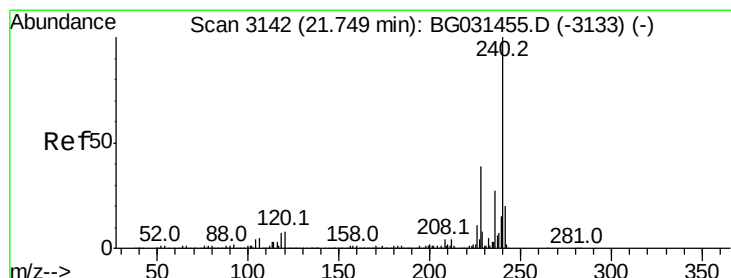
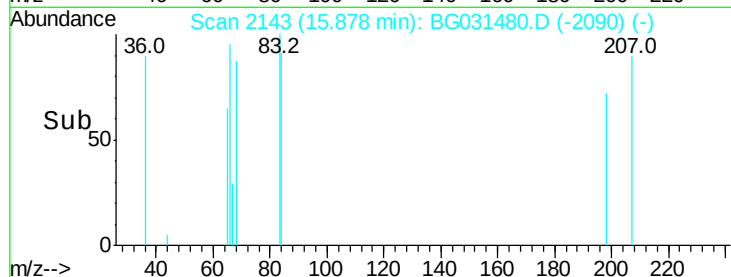
Tot Ion:198 Resp: 55  
 Ion Ratio Lower Upper  
 198 100  
 51 0.0 30.6 70.6#  
 105 0.0 23.8 63.8#



Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BG  
 Ion 105.00 (104.70 to 105.70): E

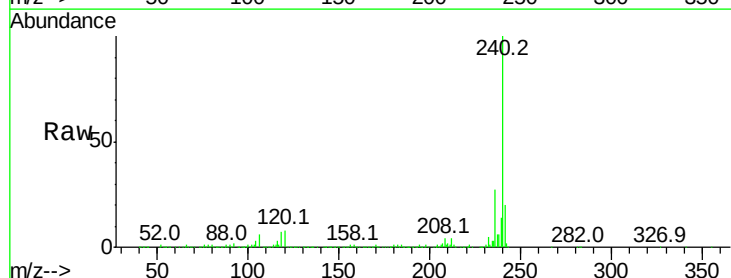
15.88

Time--> 15.86 15.88



#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.74 min Scan# 3141  
 Delta R.T. -0.01 min  
 Lab File: BG031480.D  
 Acq: 12 Dec 2017 7:35

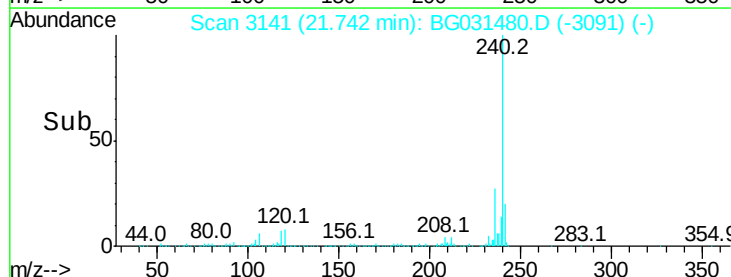
Tgt Ion:240 Resp: 530643  
 Ion Ratio Lower Upper  
 240 100  
 120 8.3 6.8 10.2  
 236 26.8 20.9 31.3

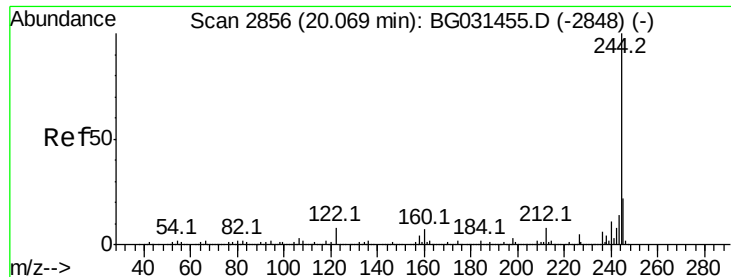


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

21.74

Time--> 21.70 21.80 21.90





#78

Terphenyl-d14

Concen: 84.478 ng

RT: 20.07 min Scan# 2856

Delta R.T. -0.00 min

Lab File: BG031480.D

Acq: 12 Dec 2017 7:35

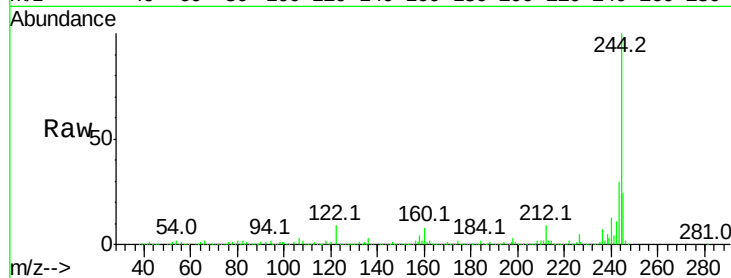
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:244 Resp: 1970294

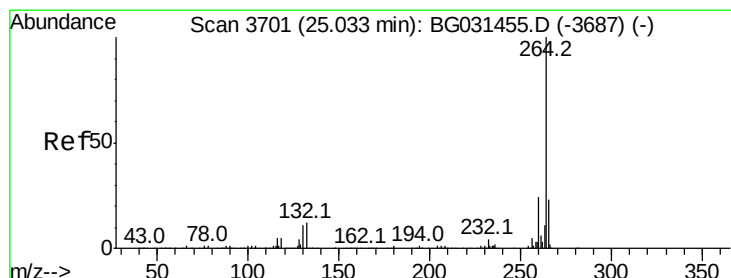
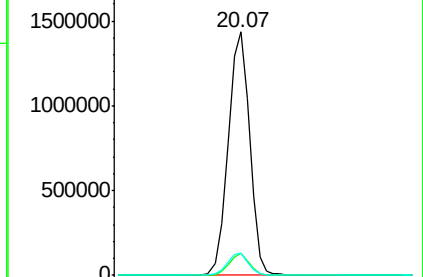
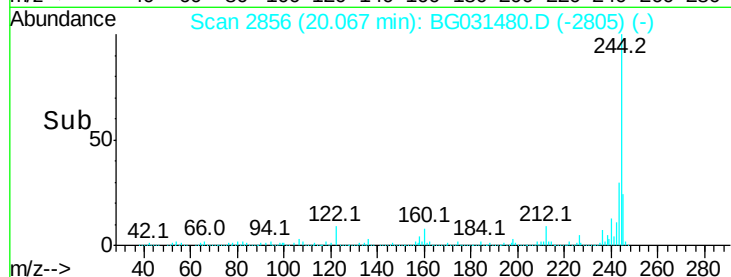
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.9   | 5.8   | 8.8#  |
| 122 | 9.2   | 7.0   | 10.4  |



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: 25.03 min Scan# 3700

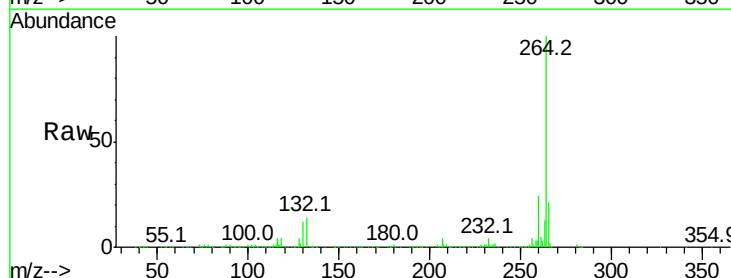
Delta R.T. -0.01 min

Lab File: BG031480.D

Acq: 12 Dec 2017 7:35

Tgt Ion:264 Resp: 466885

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.4  | 17.4  | 26.0  |
| 265 | 21.4  | 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

