

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG072518\  
 Data File : BG035891.D  
 Acq On : 26 Jul 2018 2:17  
 Operator : JU/SJ  
 Sample : J4140-02  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EPE-F-8(85-87)

Quant Time: Jul 26 04:33:07 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG071218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 25 11:04:14 2018  
 Response via : Initial Calibration

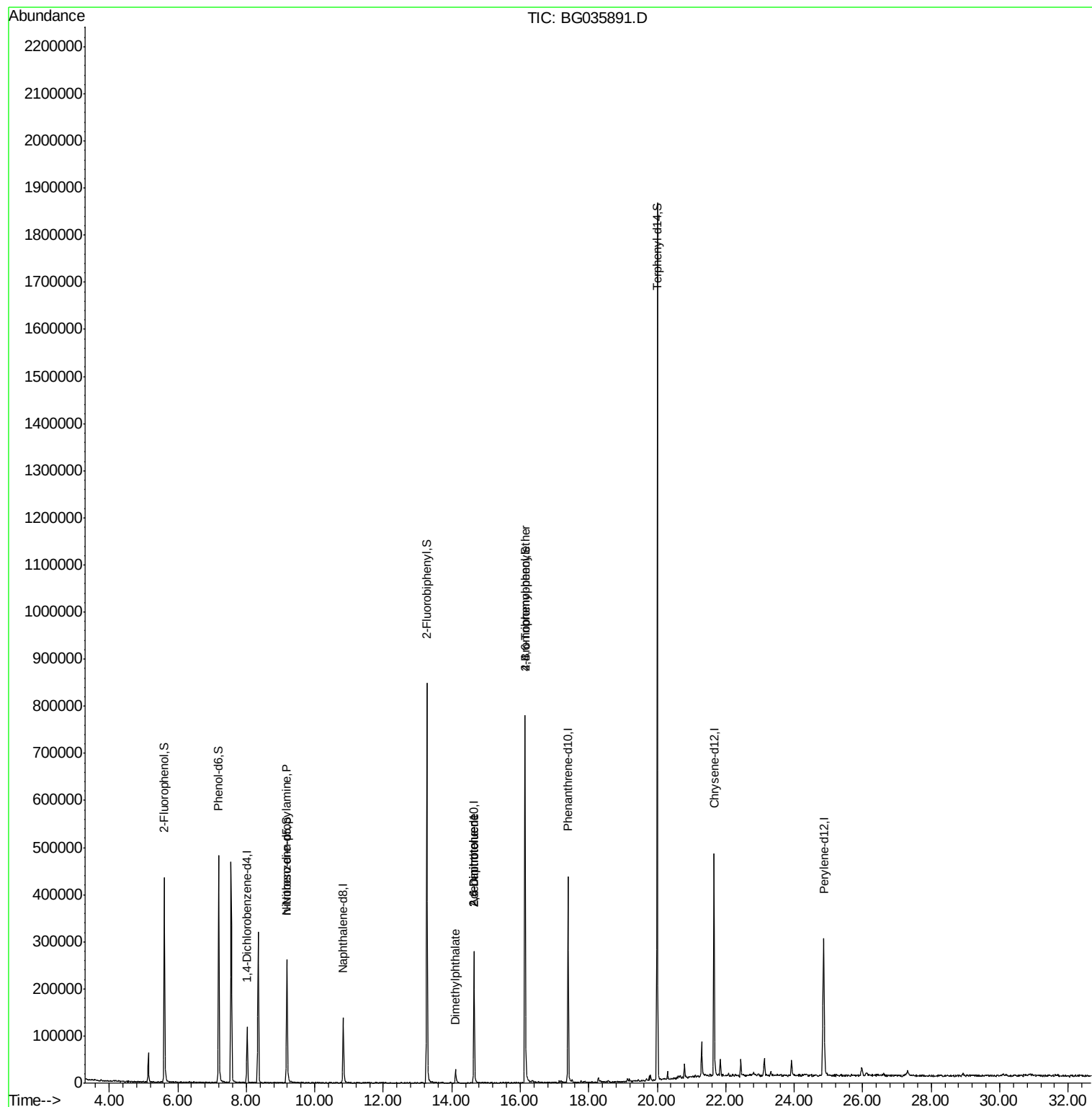
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.03  | 152  | 34267    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.83 | 136  | 128797   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.65 | 164  | 103524   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.39 | 188  | 302145   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.66 | 240  | 313151   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 24.86 | 264  | 299829   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 205961   | 99.79  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.19  | 99   | 308050   | 100.03 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.19  | 82   | 195777   | 63.50  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.14 | 330  | 156888   | 114.98 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.27 | 172  | 482768   | 62.48  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.00 | 244  | 884158   | 62.24  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.19  | 70   | 26669    | 10.284 | ng    | # 64     |
| 49) Dimethylphthalate          | 14.11 | 163  | 27754    | 3.060  | ng    | # 98     |
| 50) 2,6-Dinitrotoluene         | 14.65 | 165  | 14472    | 7.835  | ng    | # 18     |
| 56) 2,4-Dinitrotoluene         | 14.65 | 165  | 14472    | 5.461  | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 16.14 | 248  | 12506    | 3.568  | ng    | # 1      |

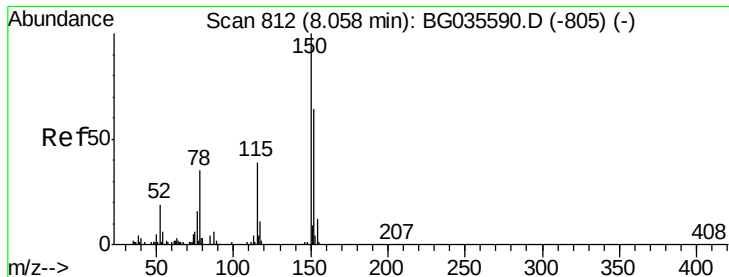
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG072518\  
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BNA\_G  
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EPE-F-8(85-87)

Quant Time: Jul 26 04:33:07 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG071218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 25 11:04:14 2018  
Response via : Initial Calibration



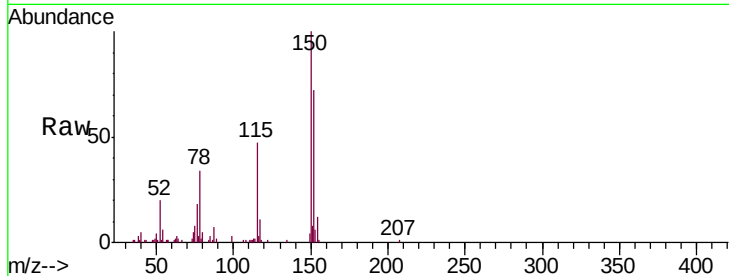


#1

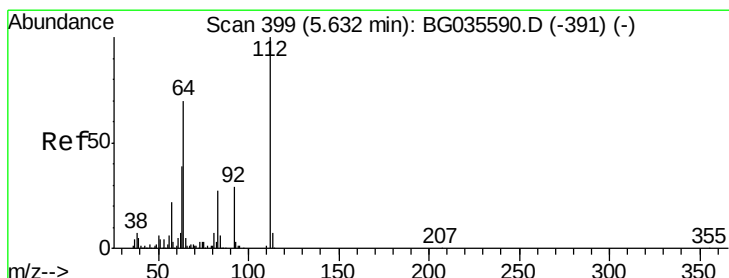
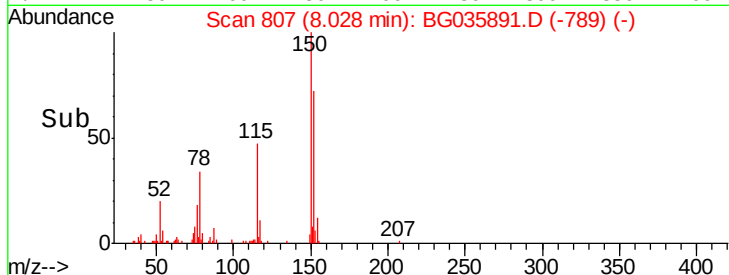
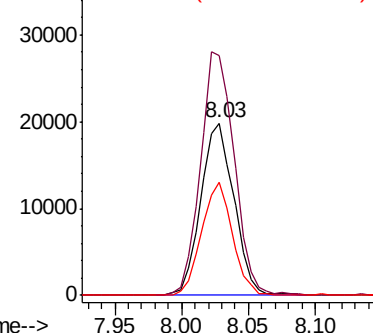
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.03 min Scan# 807  
Delta R.T. 0.00 min  
Lab File: BG035891.D  
Acq: 26 Jul 2018 2:17

Instrument :  
BNA\_G  
ClientSampleId :  
EPE-F-8(85-87)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 139.8 | 126.6 | 189.8 |
| 115     | 65.6  | 53.0  | 79.4  |



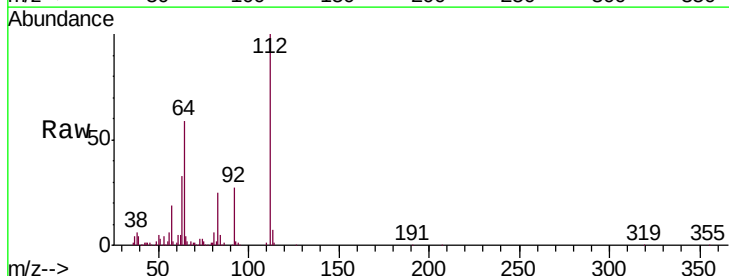
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



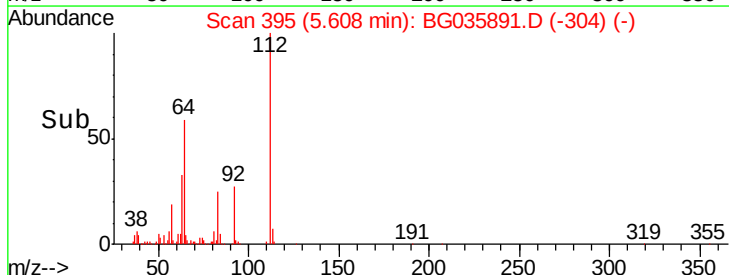
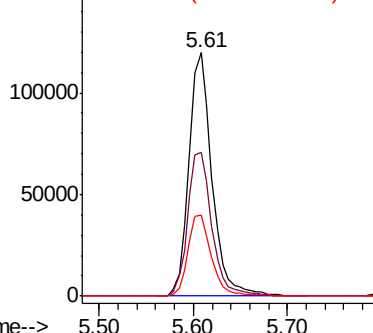
#5

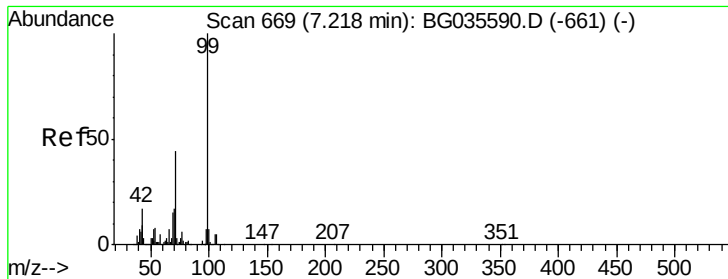
2-Fluorophenol  
Concen: 99.788 ng  
RT: 5.61 min Scan# 395  
Delta R.T. 0.00 min  
Lab File: BG035891.D  
Acq: 26 Jul 2018 2:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.2  | 56.3  | 84.5  |
| 63      | 33.0  | 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: 100.034 ng

RT: 7.19 min Scan# 665

Delta R.T. -0.00 min

Lab File: BG035891.D

Acq: 26 Jul 2018 2:17

Instrument :

BNA\_G

ClientSampleId :

EPE-F-8(85-87)

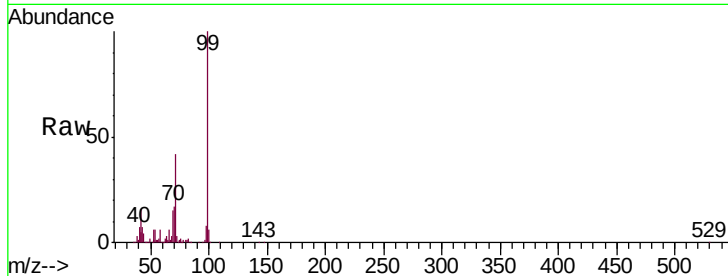
Tgt Ion: 99 Resp: 308050

Ion Ratio Lower Upper

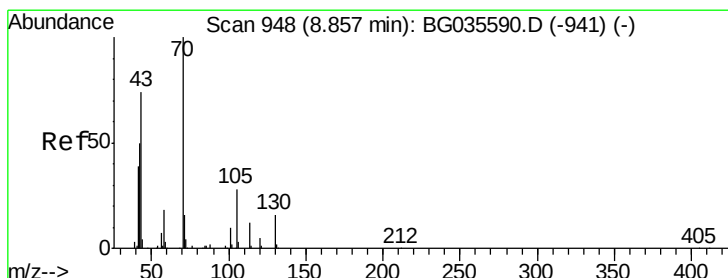
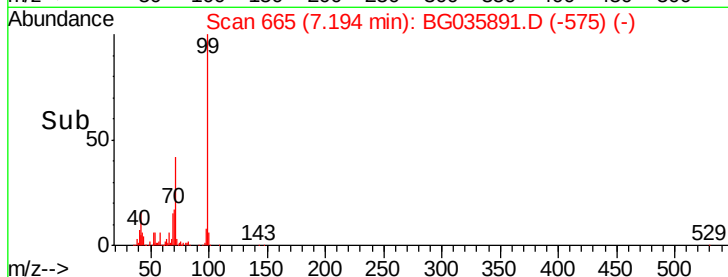
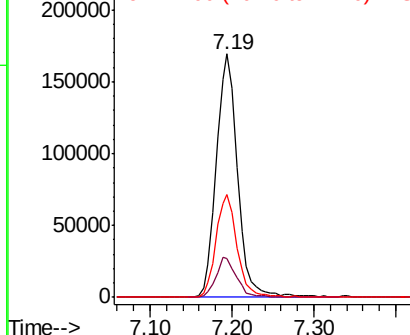
99 100

42 16.1 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



#19

n-Nitroso-di-n-propylamine

Concen: 10.284 ng

RT: 9.19 min Scan# 1004

Delta R.T. 0.36 min

Lab File: BG035891.D

Acq: 26 Jul 2018 2:17

Tgt Ion: 70 Resp: 26669

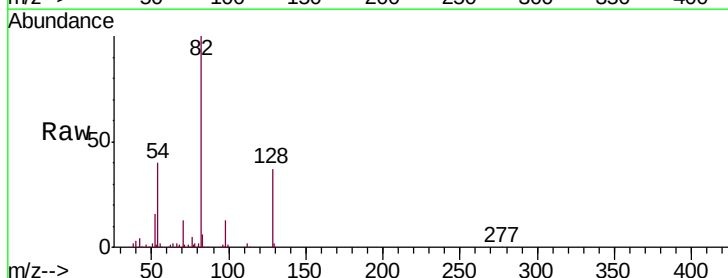
Ion Ratio Lower Upper

70 100

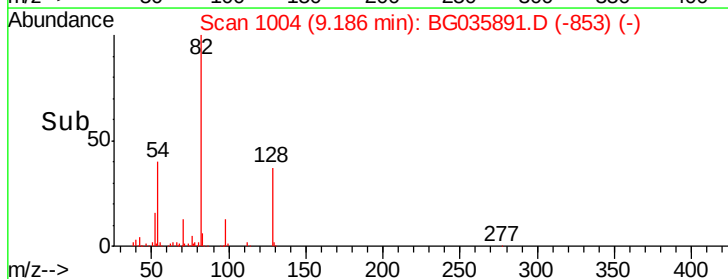
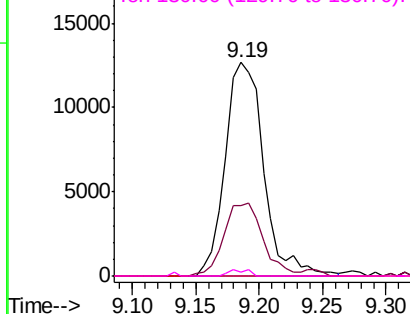
42 32.8 49.1 73.7#

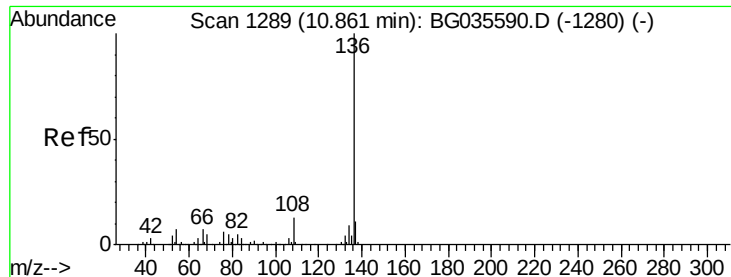
101 0.0 8.5 12.7#

130 1.8 13.4 20.0#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

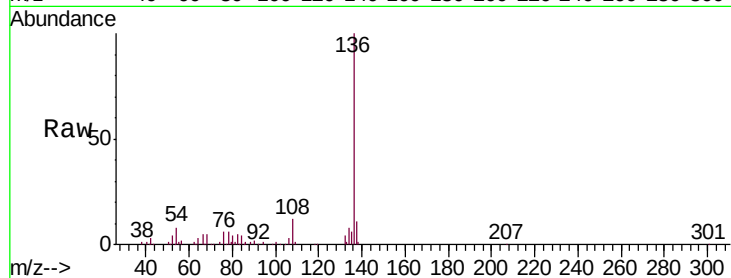




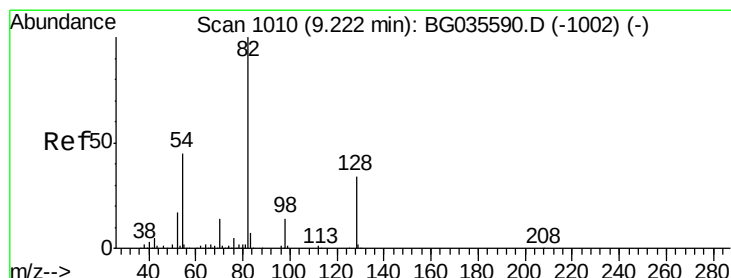
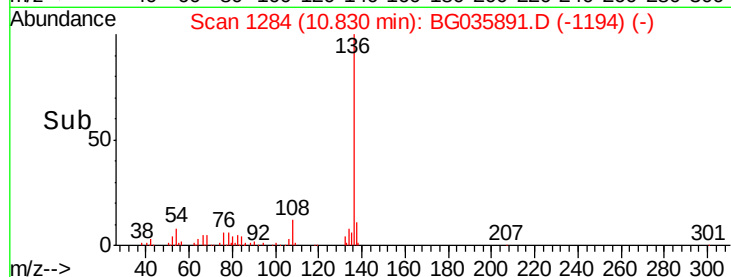
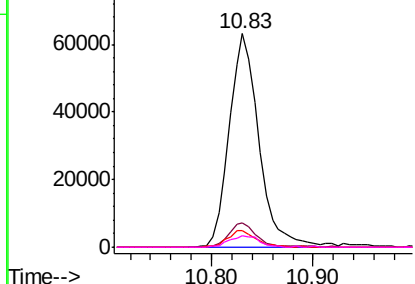
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.83 min Scan# 1284  
Delta R.T. -0.00 min  
Lab File: BG035891.D  
Acq: 26 Jul 2018 2:17

Instrument :  
BNA\_G  
ClientSampleId :  
EPE-F-8(85-87)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 128797 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 9.2   | 13.8   |
| 54       | 8.0   | 10.3  | 15.5#  |
| 68       | 5.3   | 4.5   | 6.7    |

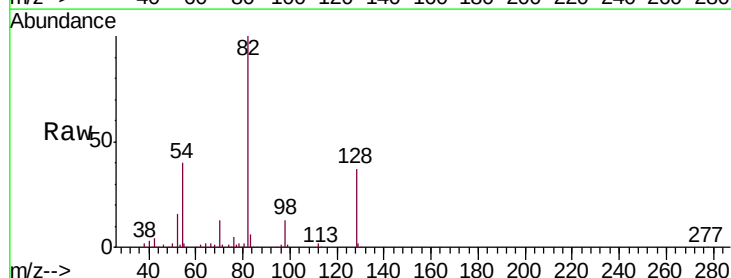


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

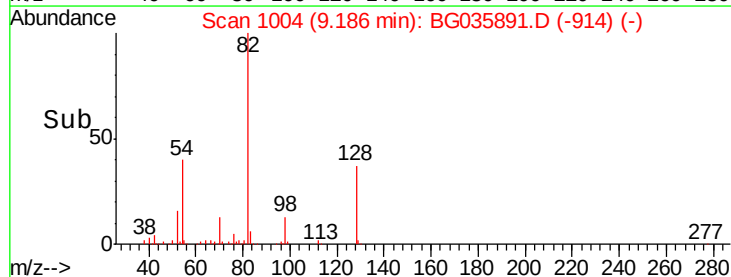
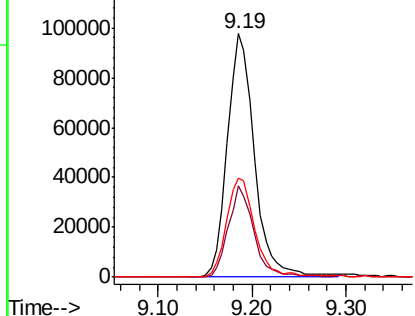


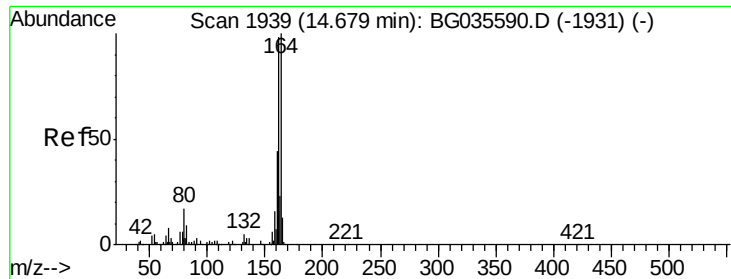
#23  
Nitrobenzene-d5  
Concen: 63.499 ng  
RT: 9.19 min Scan# 1004  
Delta R.T. -0.00 min  
Lab File: BG035891.D  
Acq: 26 Jul 2018 2:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 195777 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 37.3  | 29.7  | 44.5   |
| 54       | 40.5  | 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





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.65 min Scan# 1934

Delta R.T. -0.00 min

Lab File: BG035891.D

Acq: 26 Jul 2018 2:17

Instrument :

BNA\_G

ClientSampleId :

EPE-F-8(85-87)

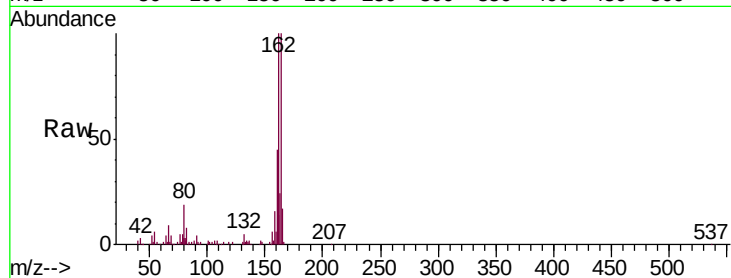
Tgt Ion:164 Resp: 103524

Ion Ratio Lower Upper

164 100

162 100.5 78.8 118.2

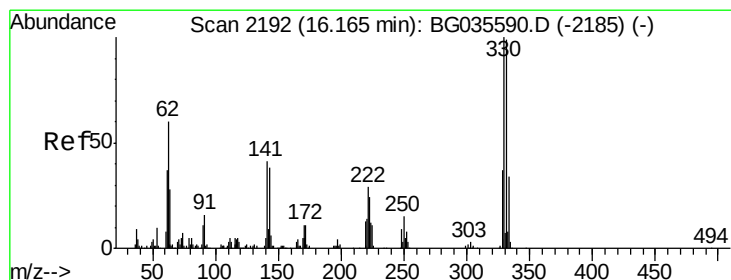
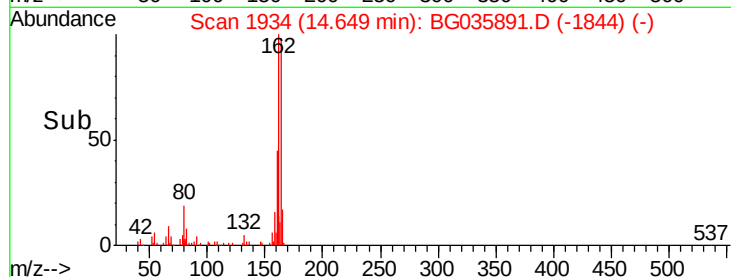
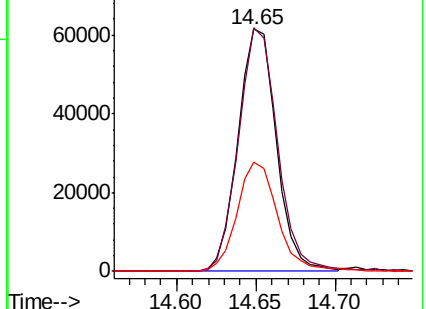
160 45.1 35.4 53.0



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 114.977 ng

RT: 16.14 min Scan# 2188

Delta R.T. -0.00 min

Lab File: BG035891.D

Acq: 26 Jul 2018 2:17

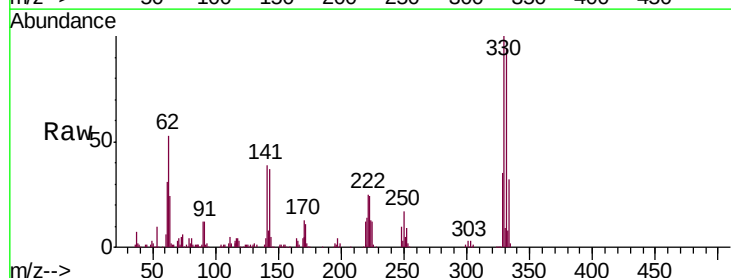
Tgt Ion:330 Resp: 156888

Ion Ratio Lower Upper

330 100

332 94.7 77.0 115.6

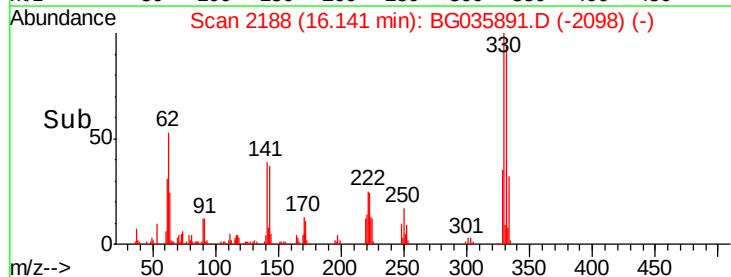
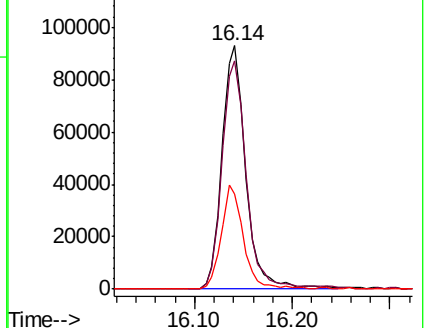
141 39.7 25.2 37.8#

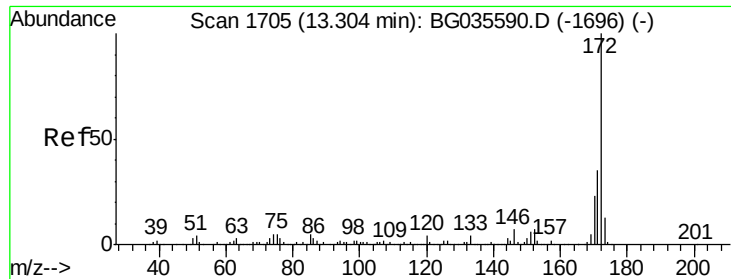


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

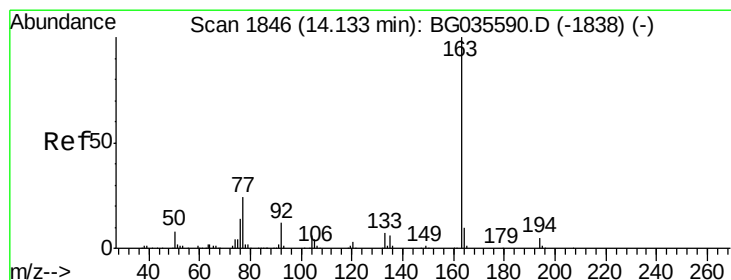
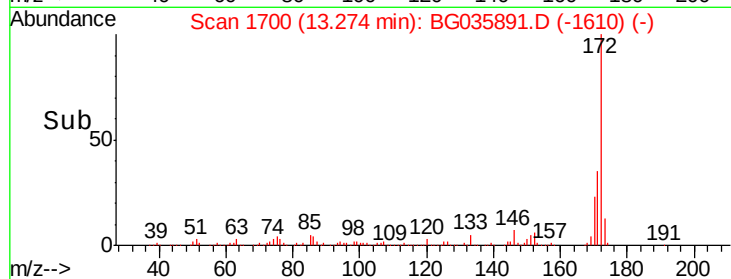
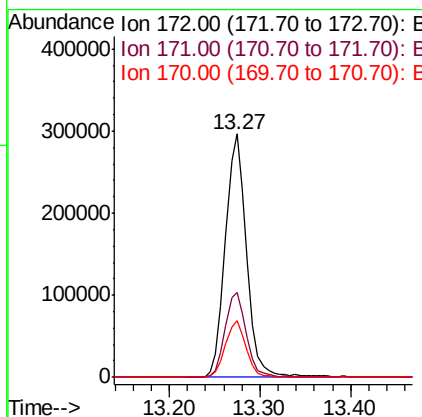
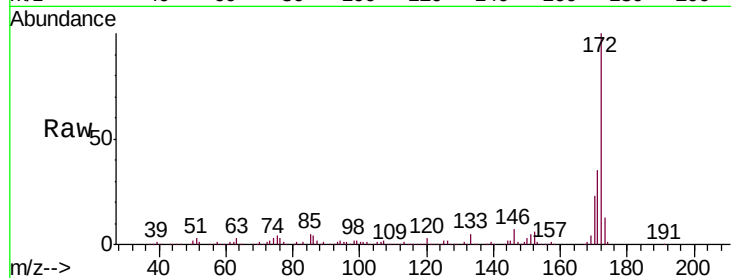




#44  
2-Fluorobiphenyl  
Concen: 62.477 ng  
RT: 13.27 min Scan# 1700  
Delta R.T. -0.00 min  
Lab File: BG035891.D  
Acq: 26 Jul 2018 2:17

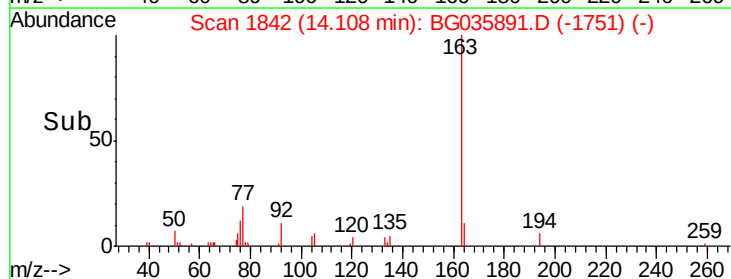
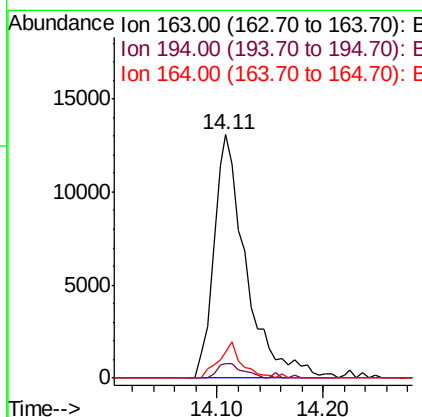
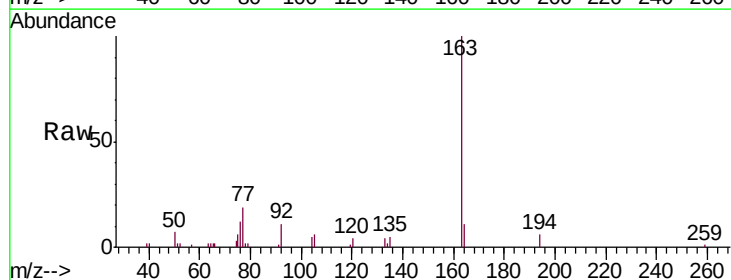
Instrument :  
BNA\_G  
ClientSampleId :  
EPE-F-8(85-87)

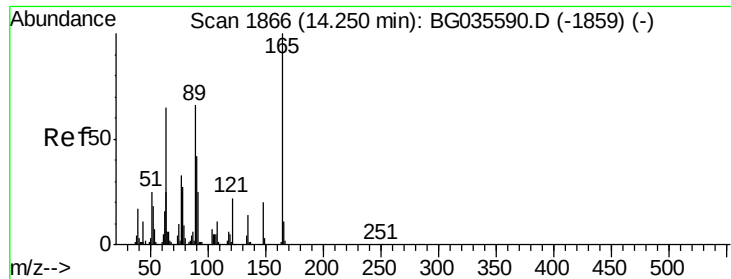
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.8  | 30.0  | 45.0  |
| 170     | 23.4  | 19.5  | 29.3  |



#49  
Dimethylphthalate  
Concen: 3.060 ng  
RT: 14.11 min Scan# 1842  
Delta R.T. 0.00 min  
Lab File: BG035891.D  
Acq: 26 Jul 2018 2:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.8   | 3.4   | 5.2#  |
| 164     | 10.9  | 8.2   | 12.4  |





#50

2,6-Dinitrotoluene

Concen: 7.835 ng

RT: 14.65 min Scan# 1934

Delta R.T. 0.42 min

Lab File: BG035891.D

Acq: 26 Jul 2018 2:17

Instrument :

BNA\_G

ClientSampleId :

EPE-F-8(85-87)

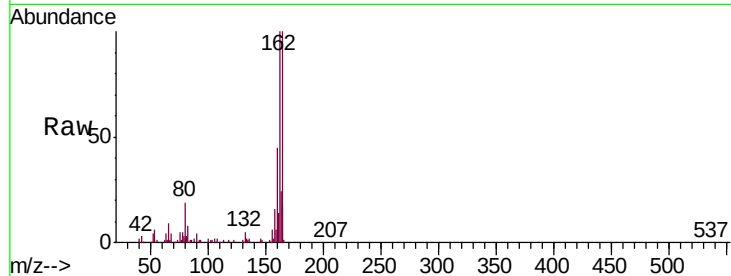
Tgt Ion:165 Resp: 14472

Ion Ratio Lower Upper

165 100

63 0.0 52.7 79.1#

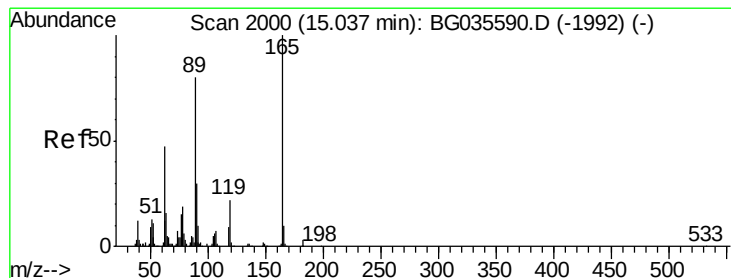
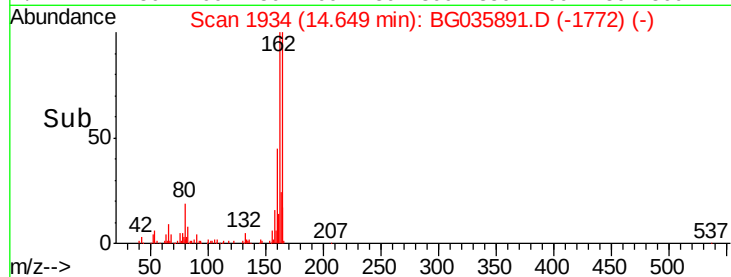
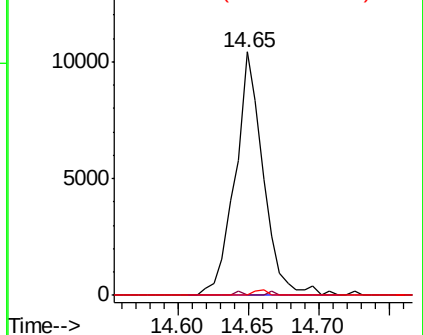
89 0.0 49.2 73.8#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC



#56

2,4-Dinitrotoluene

Concen: 5.461 ng

RT: 14.65 min Scan# 1934

Delta R.T. -0.37 min

Lab File: BG035891.D

Acq: 26 Jul 2018 2:17

Tgt Ion:165 Resp: 14472

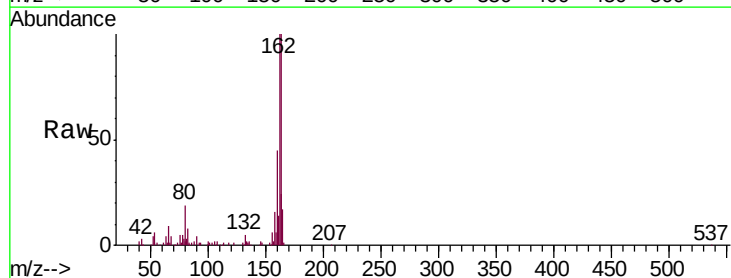
Ion Ratio Lower Upper

165 100

63 0.0 42.0 63.0#

89 0.0 66.9 100.3#

182 0.0 2.6 3.8#

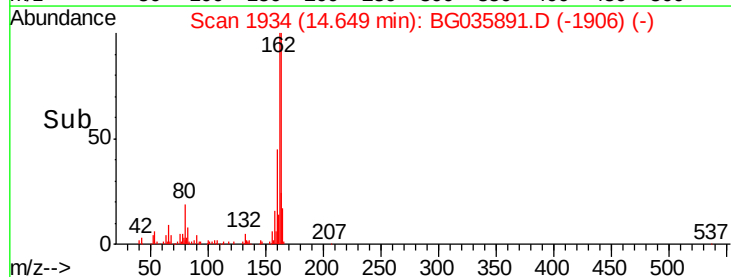
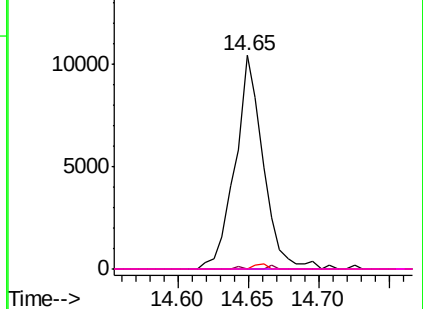


Abundance Ion 165.00 (164.70 to 165.70): E

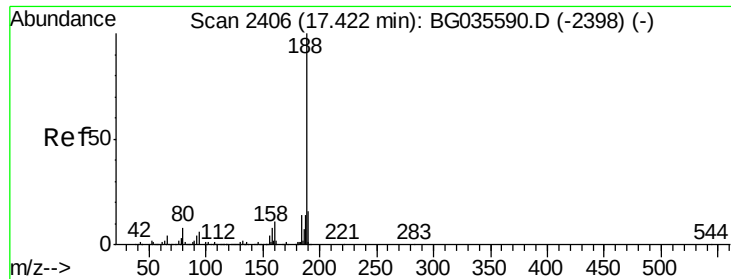
Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



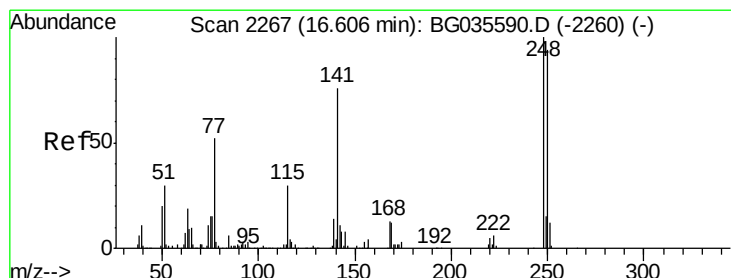
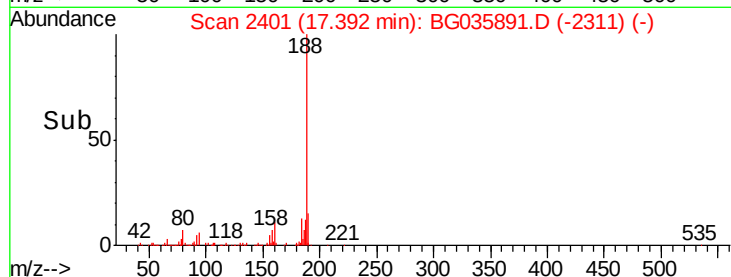
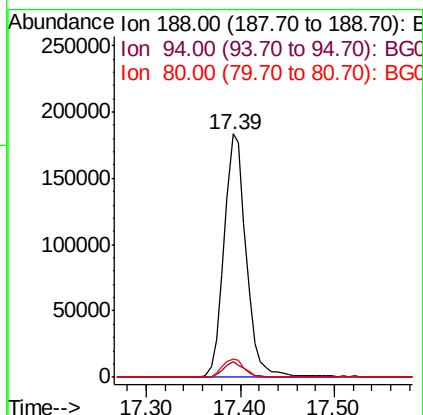
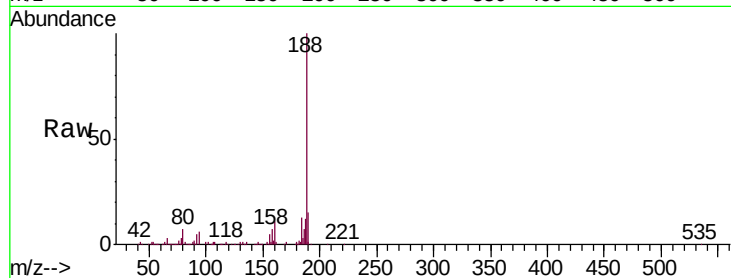




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.39 min Scan# 2401  
Delta R.T. -0.00 min  
Lab File: BG035891.D  
Acq: 26 Jul 2018 2:17

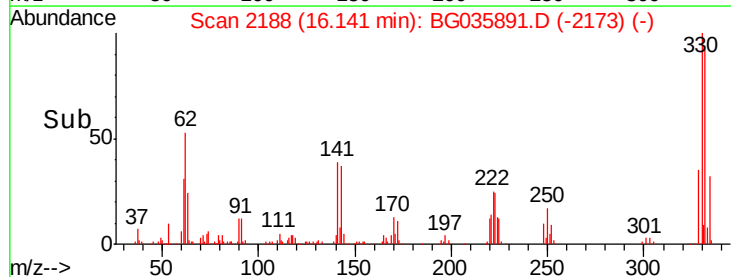
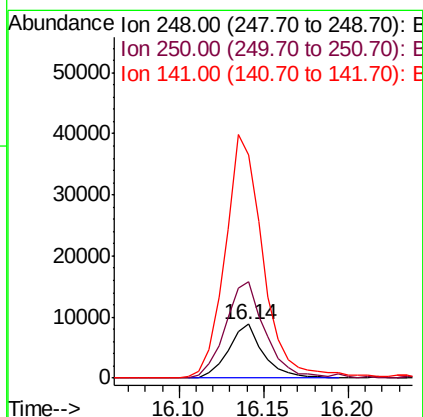
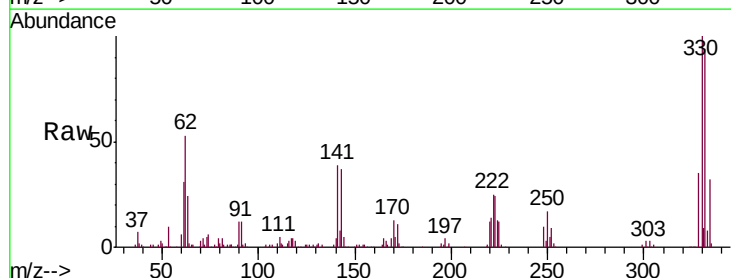
Instrument :  
BNA\_G  
ClientSampleId :  
EPE-F-8(85-87)

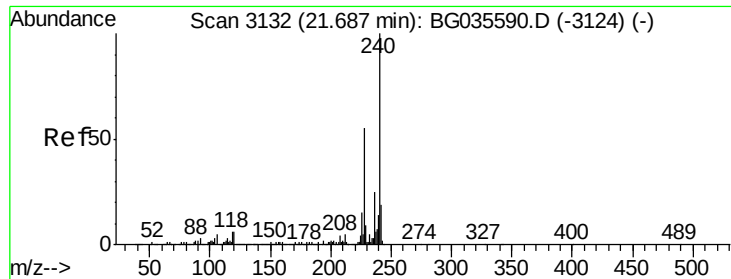
Tgt Ion:188 Resp: 302145  
Ion Ratio Lower Upper  
188 100  
94 6.2 6.9 10.3#  
80 7.3 7.7 11.5#



#66  
4-Bromophenyl-phenylether  
Concen: 3.568 ng  
RT: 16.14 min Scan# 2188  
Delta R.T. -0.44 min  
Lab File: BG035891.D  
Acq: 26 Jul 2018 2:17

Tgt Ion:248 Resp: 12506  
Ion Ratio Lower Upper  
248 100  
250 178.1 77.1 115.7#  
141 413.0 50.8 76.2#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.66 min Scan# 3127

Delta R.T. -0.00 min

Lab File: BG035891.D

Acq: 26 Jul 2018 2:17

Instrument :

BNA\_G

ClientSampleId :

EPE-F-8(85-87)

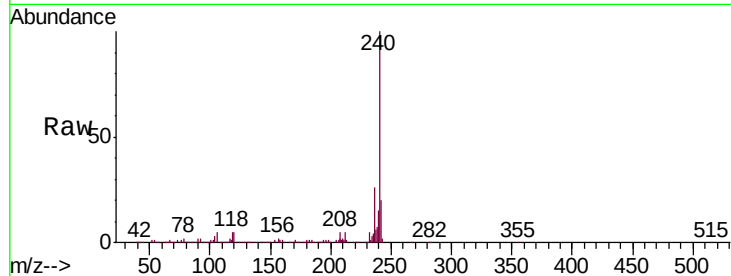
Tgt Ion:240 Resp: 313151

Ion Ratio Lower Upper

240 100

120 4.9 6.8 10.2#

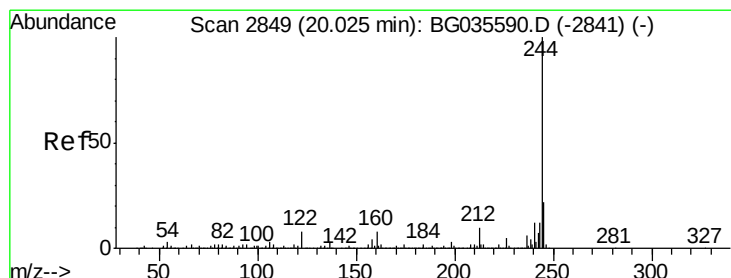
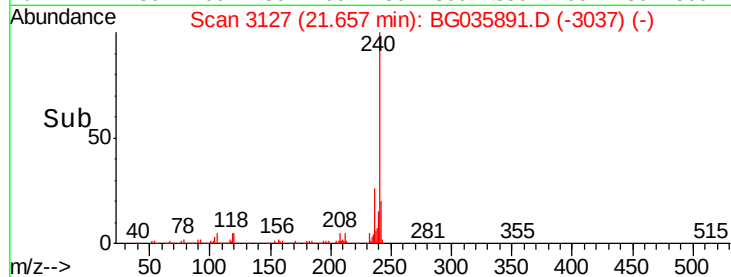
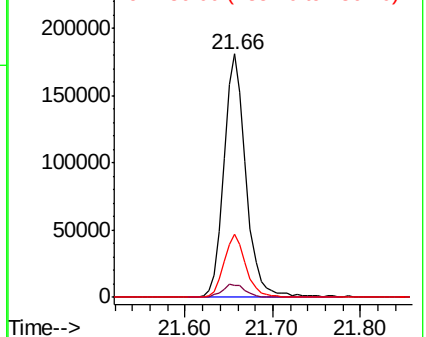
236 25.9 20.9 31.3



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: 62.237 ng

RT: 20.00 min Scan# 2845

Delta R.T. -0.00 min

Lab File: BG035891.D

Acq: 26 Jul 2018 2:17

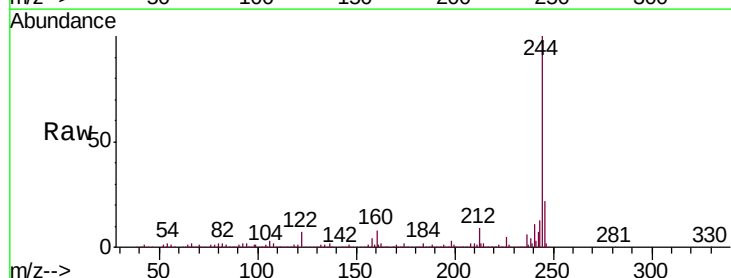
Tgt Ion:244 Resp: 884158

Ion Ratio Lower Upper

244 100

212 8.7 5.8 8.8

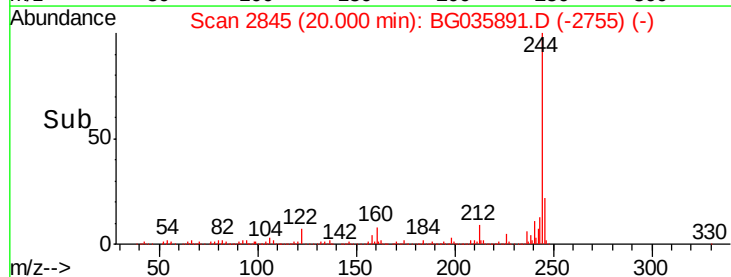
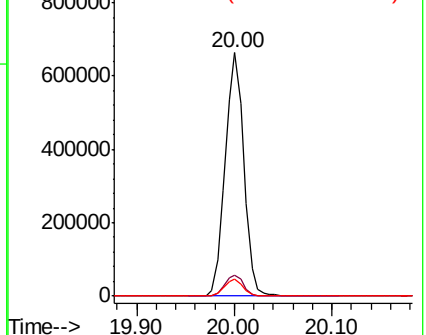
122 6.8 7.0 10.4#

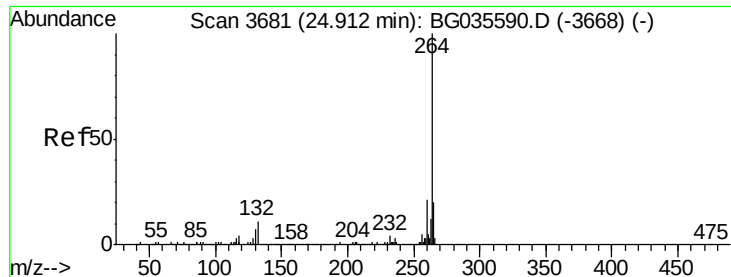


Abundance Ion 244.00 (243.70 to 244.70): E

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: 24.86 min Scan# 3672  
Delta R.T. -0.00 min  
Lab File: BG035891.D  
Acq: 26 Jul 2018 2:17

Instrument :  
BNA\_G  
ClientSampleId :  
EPE-F-8(85-87)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 17.4  | 26.0  |
| 265     | 21.2  | 17.7  | 26.5  |

