

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_G\DATA\BG012418\  
 Data File : BG032261.D  
 Acq On : 24 Jan 2018 15:17  
 Operator : SJ/JU  
 Sample : J1241-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EPE-106-4A(85-87)

Quant Time: Jan 24 16:14:04 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  | 36966    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.60 | 136  | 137065   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.36 | 164  | 96692    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.09 | 188  | 273925   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.42 | 240  | 375366   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 26.10 | 264  | 386624   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.16  | 112  | 263469   | 130.35 | ng    | 0.00     |
| 7) Phenol-d6                | 7.84  | 99   | 327008   | 128.46 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.92  | 82   | 197888   | 97.68  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.84 | 330  | 238067   | 148.79 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.99 | 172  | 637875   | 81.80  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.63 | 244  | 1358992  | 79.94  | ng    | 0.00     |

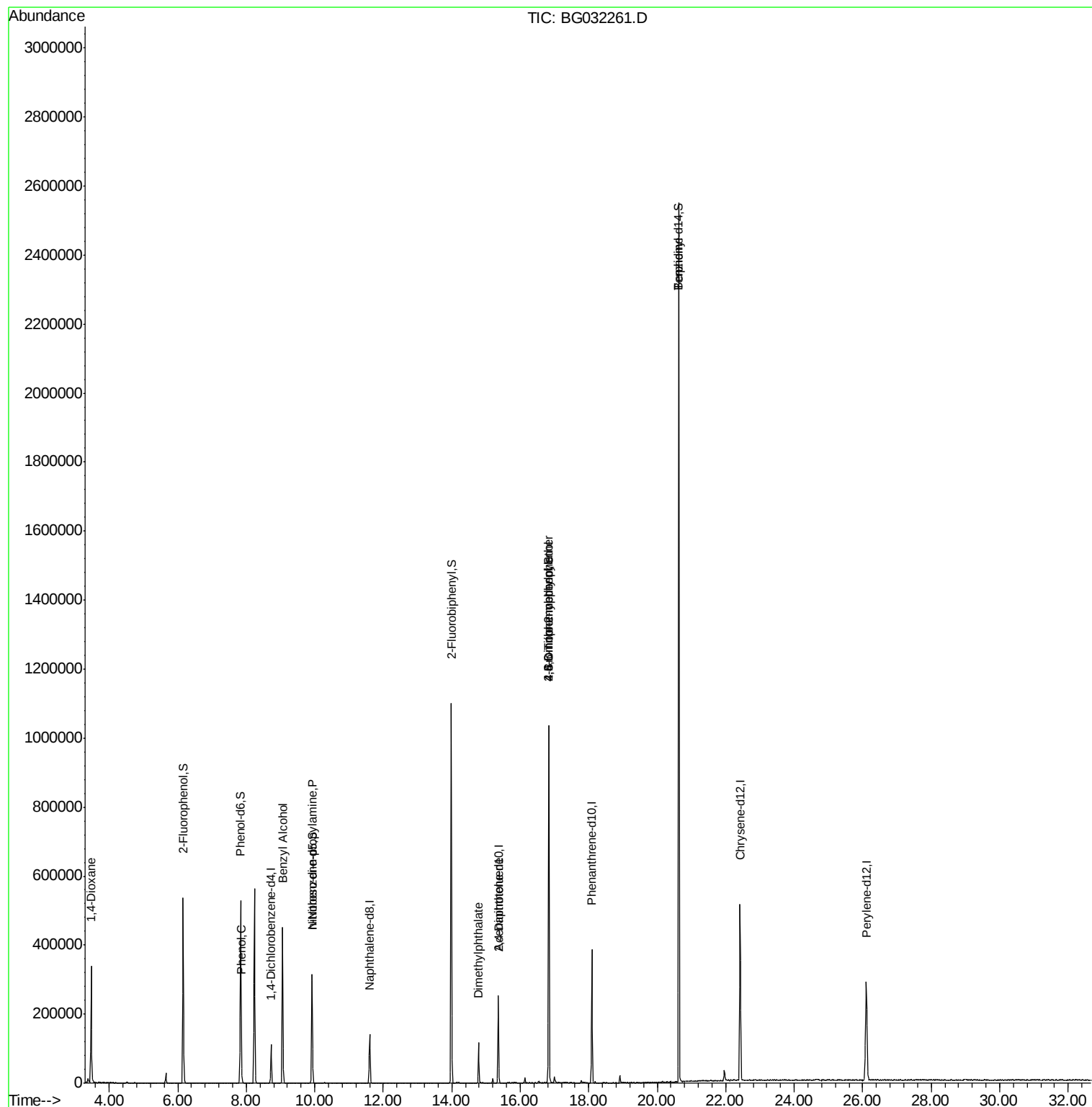
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.47  | 88   | 3600     | 4.636  | ng    | # 1    |
| 10) Phenol                     | 7.86  | 94   | 8151     | 3.251  | ng    | # 62   |
| 15) Benzyl Alcohol             | 9.06  | 79   | 3893     | 2.105  | ng    | # 48   |
| 19) n-Nitroso-di-n-propylamine | 9.92  | 70   | 29590    | 18.735 | ng    | # 78   |
| 49) Dimethylphthalate          | 14.78 | 163  | 85370    | 10.089 | ng    | # 97   |
| 56) 2,4-Dinitrotoluene         | 15.36 | 165  | 12748    | 5.391  | ng    | # 18   |
| 64) 4,6-Dinitro-2-methylphenol | 16.84 | 198  | 703      | 5.245  | ng    | # 36   |
| 66) 4-Bromophenyl-phenylether  | 16.83 | 248  | 20348    | 5.221  | ng    | # 1    |
| 76) Benzidine                  | 20.63 | 184  | 19220    | 2.048  | ng    | # 92   |

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

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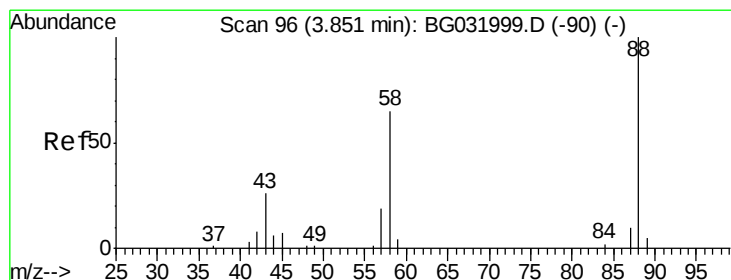
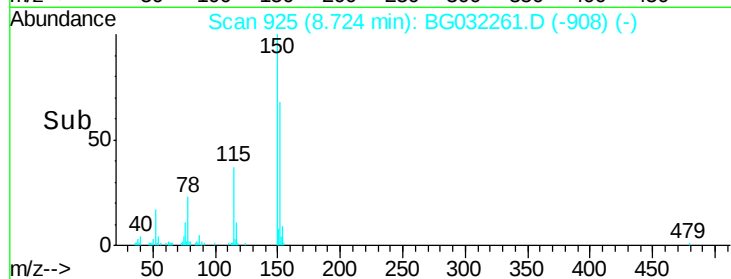
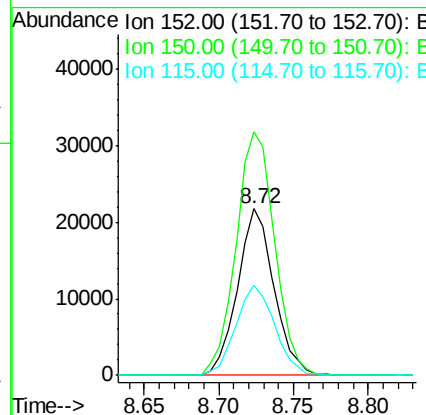
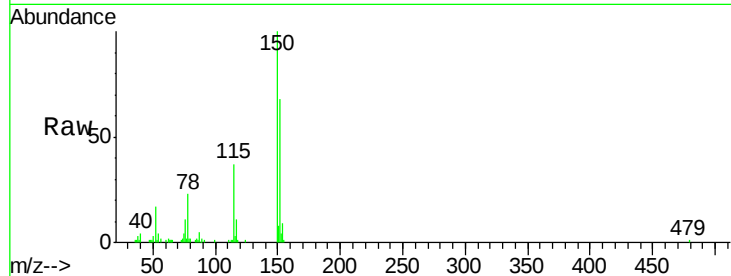


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.72 min Scan# 925  
Delta R.T. 0.00 min  
Lab File: BG032261.D  
Acq: 24 Jan 2018 15:17

Instrument :  
BNA\_G  
ClientSampleId :  
EPE-106-4A(85-87)

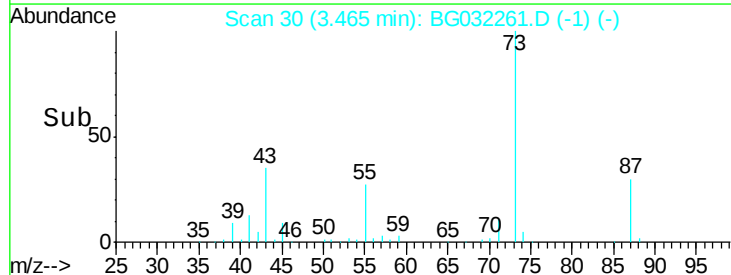
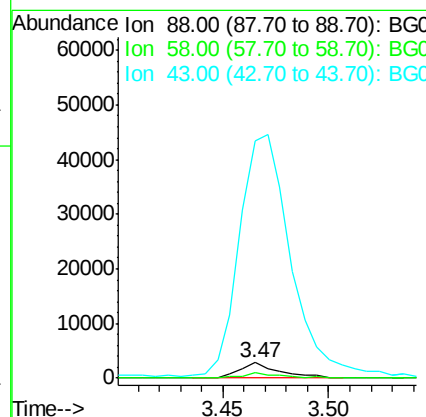
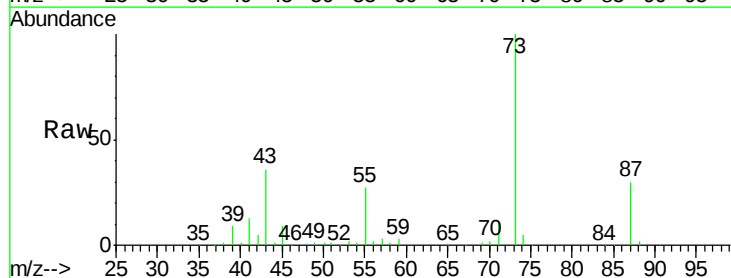
Tgt Ion:152 Resp: 36966  
Ion Ratio Lower Upper  
152 100  
150 146.2 126.6 189.8  
115 54.1 53.0 79.4

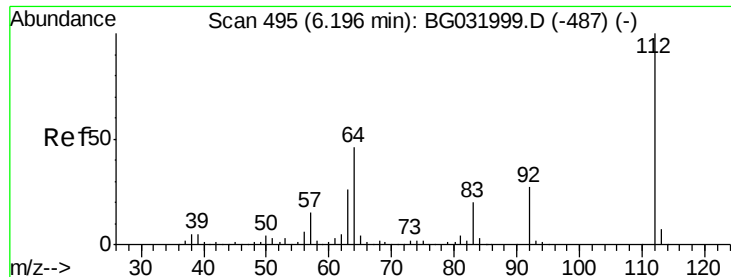


#2

1,4-Dioxane  
Concen: 4.636 ng  
RT: 3.47 min Scan# 30  
Delta R.T. -0.36 min  
Lab File: BG032261.D  
Acq: 24 Jan 2018 15:17

Tgt Ion: 88 Resp: 3600  
Ion Ratio Lower Upper  
88 100  
58 31.9 79.6 119.4#  
43 2103.4 27.4 41.0#





#5

2-Fluorophenol

Concen: 130.354 ng

RT: 6.16 min Scan# 488

Delta R.T. 0.00 min

Lab File: BG032261.D

Acq: 24 Jan 2018 15:17

Instrument :

BNA\_G

ClientSampleId :

EPE-106-4A(85-87)

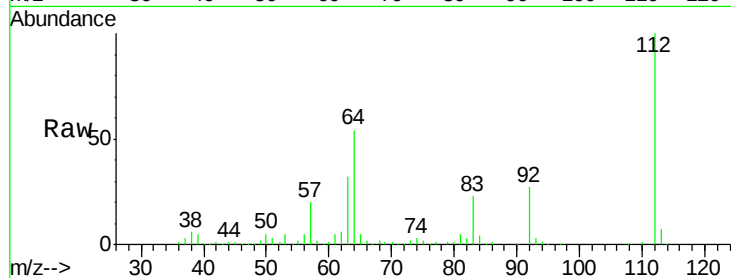
Tgt Ion: 112 Resp: 263469

Ion Ratio Lower Upper

112 100

64 53.9 56.3 84.5#

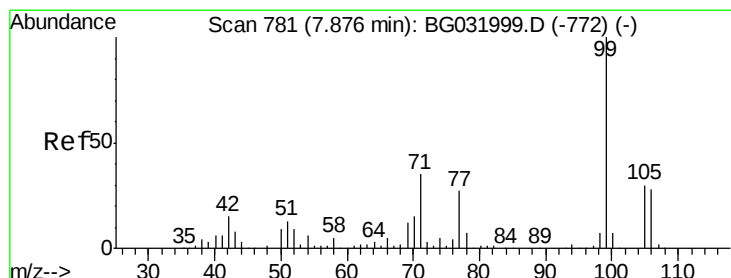
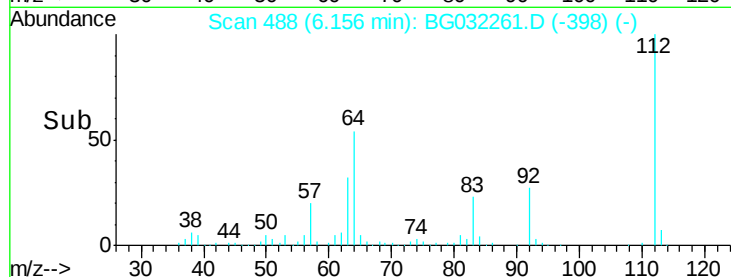
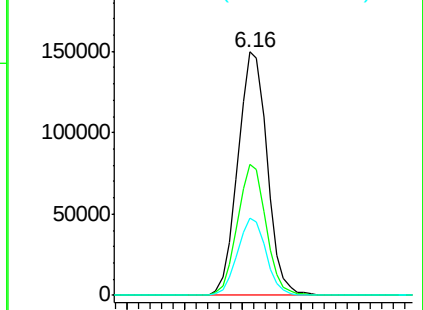
63 31.8 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#7

Phenol-d6

Concen: 128.463 ng

RT: 7.84 min Scan# 774

Delta R.T. 0.00 min

Lab File: BG032261.D

Acq: 24 Jan 2018 15:17

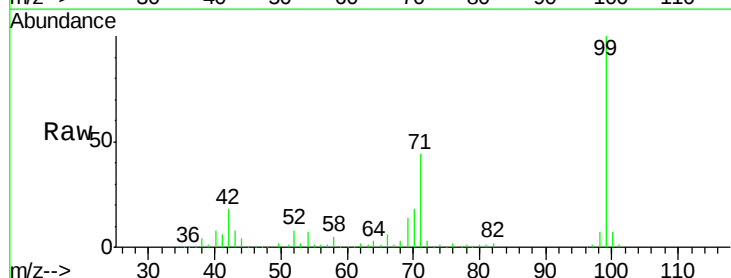
Tgt Ion: 99 Resp: 327008

Ion Ratio Lower Upper

99 100

42 18.4 14.1 21.1

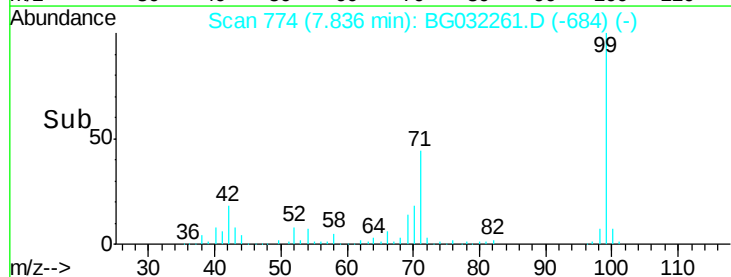
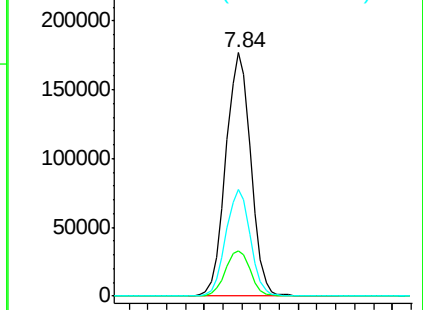
71 44.0 26.1 39.1#

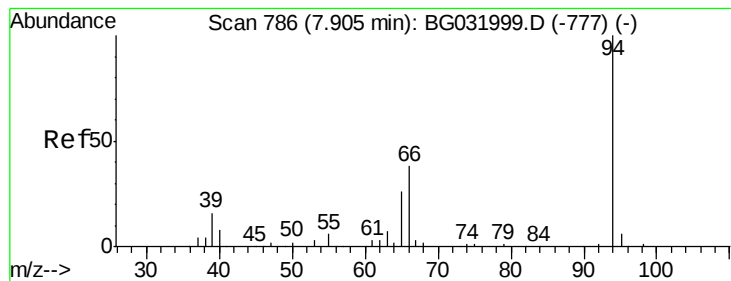


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC





#10

Phenol

Concen: 3.251 ng

RT: 7.86 min Scan# 778

Delta R.T. -0.01 min

Lab File: BG032261.D

Acq: 24 Jan 2018 15:17

Instrument :

BNA\_G

ClientSampleId :

EPE-106-4A(85-87)

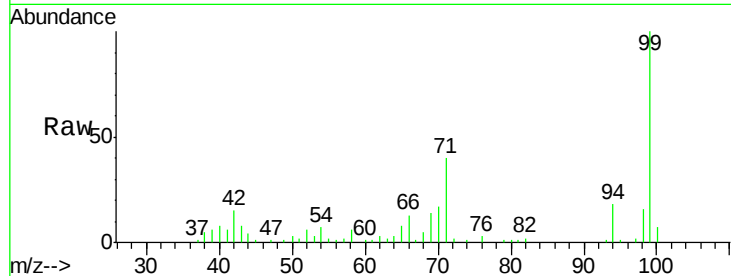
Tgt Ion: 94 Resp: 8151

Ion Ratio Lower Upper

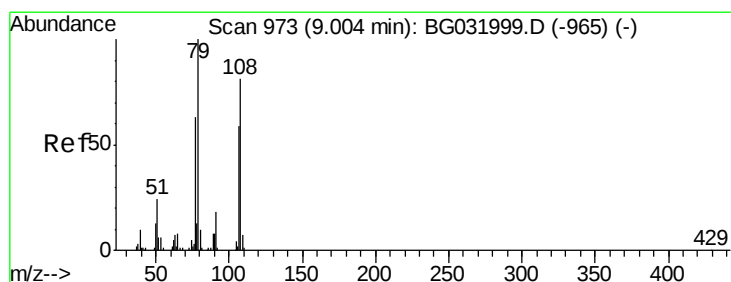
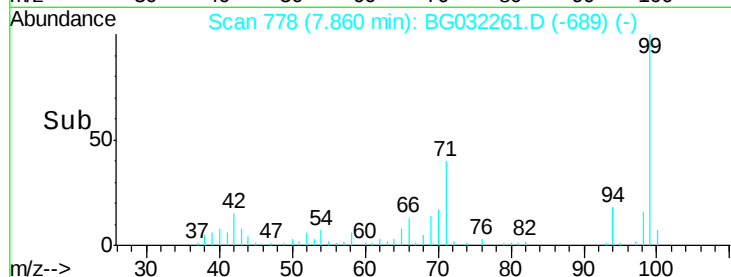
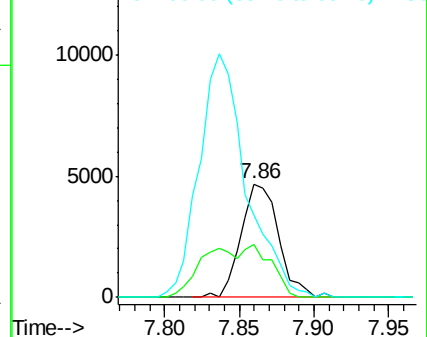
94 100

65 46.4 11.9 51.9

66 72.4 22.2 62.2#



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC



#15

Benzyl Alcohol

Concen: 2.105 ng

RT: 9.06 min Scan# 982

Delta R.T. 0.09 min

Lab File: BG032261.D

Acq: 24 Jan 2018 15:17

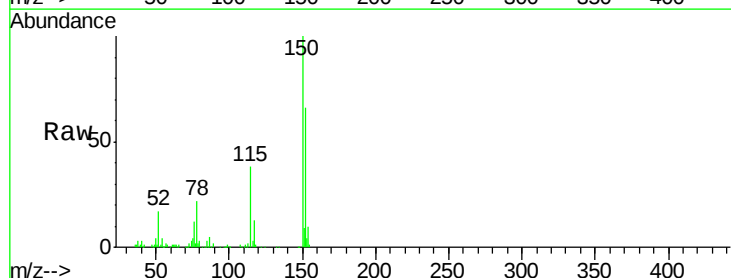
Tgt Ion: 79 Resp: 3893

Ion Ratio Lower Upper

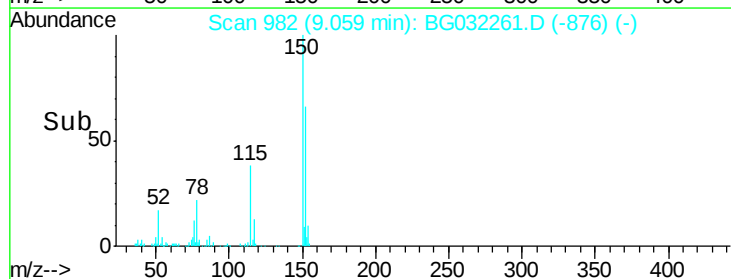
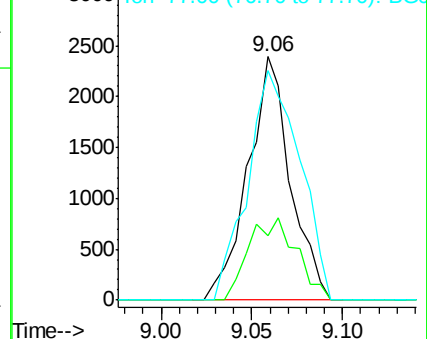
79 100

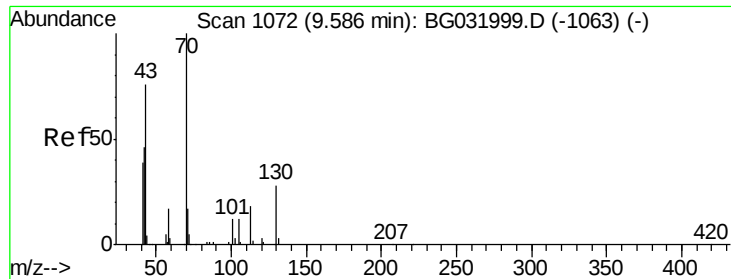
108 26.6 57.2 85.8#

77 94.3 46.1 69.1#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC

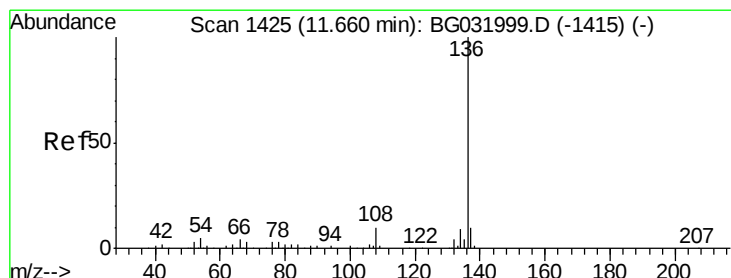
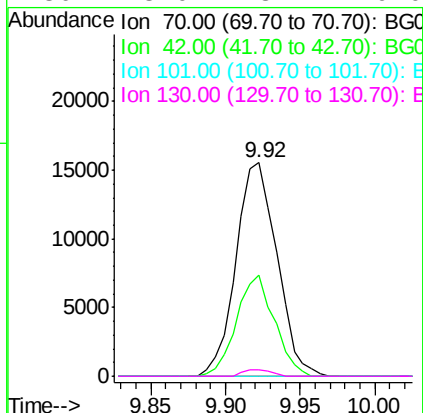
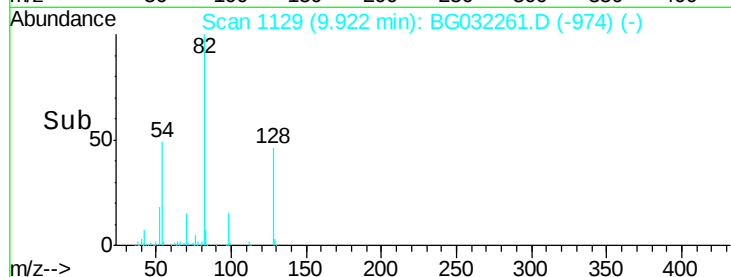
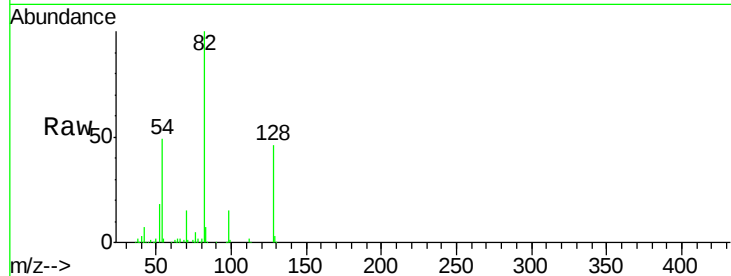




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.735 ng  
RT: 9.92 min Scan# 1129  
Delta R.T. 0.38 min  
Lab File: BG032261.D  
Acq: 24 Jan 2018 15:17

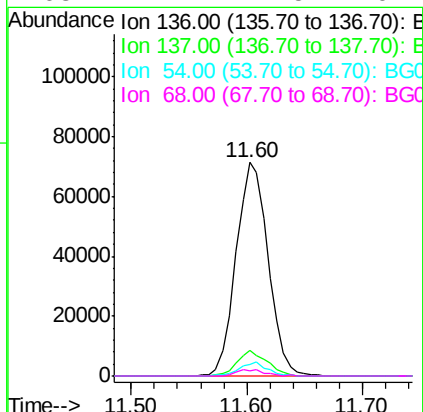
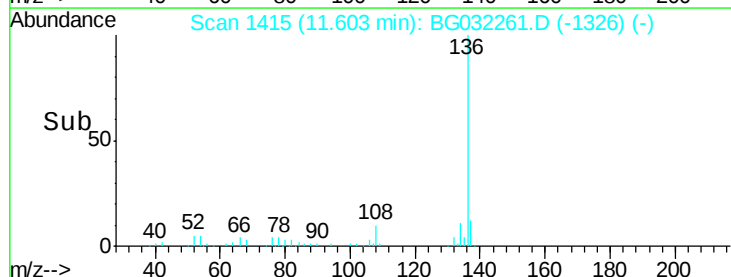
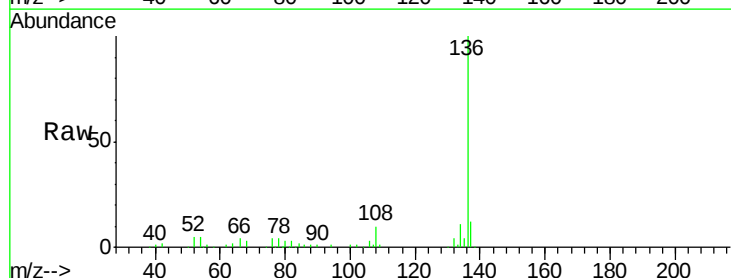
Instrument :  
BNA\_G  
ClientSampleId :  
EPE-106-4A(85-87)

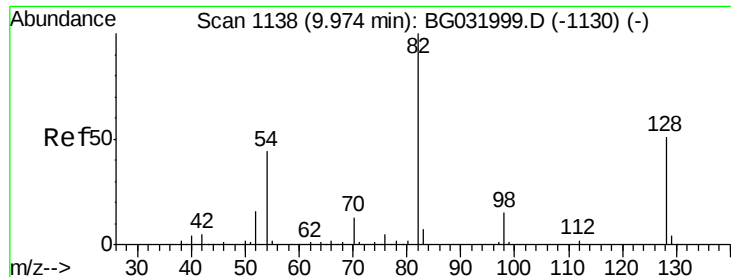
Tgt Ion: 70 Resp: 29590  
Ion Ratio Lower Upper  
70 100  
42 47.4 49.1 73.7#  
101 0.0 8.5 12.7#  
130 3.0 13.4 20.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.60 min Scan# 1415  
Delta R.T. -0.01 min  
Lab File: BG032261.D  
Acq: 24 Jan 2018 15:17

Tgt Ion: 136 Resp: 137065  
Ion Ratio Lower Upper  
136 100  
137 11.9 9.2 13.8  
54 5.3 10.3 15.5#  
68 2.7 4.5 6.7#

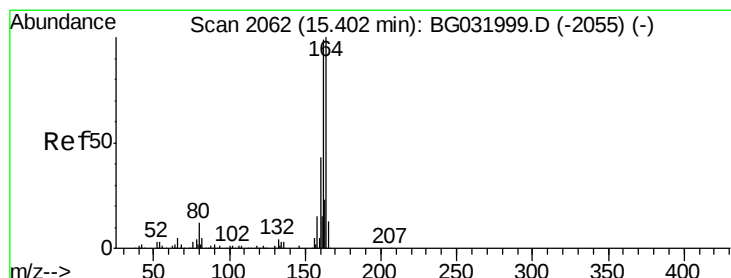
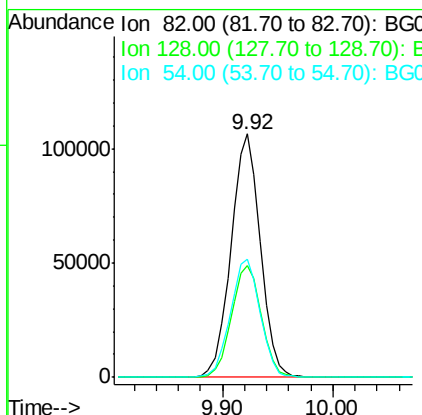
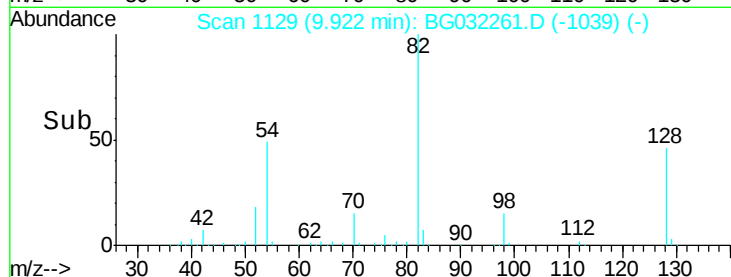
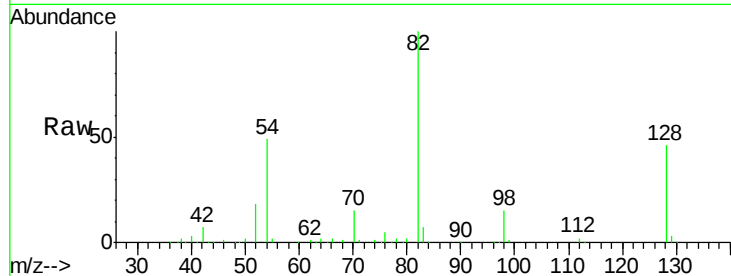




#23  
 Nitrobenzene-d5  
 Concen: 97.676 ng  
 RT: 9.92 min Scan# 1129  
 Delta R.T. 0.00 min  
 Lab File: BG032261.D  
 Acq: 24 Jan 2018 15:17

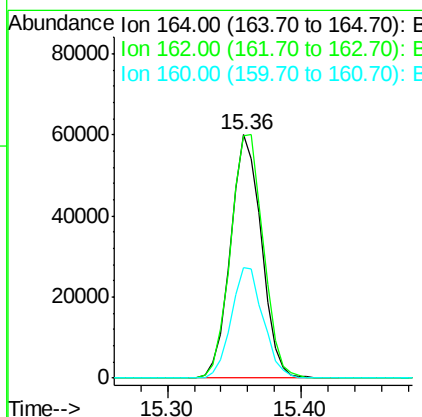
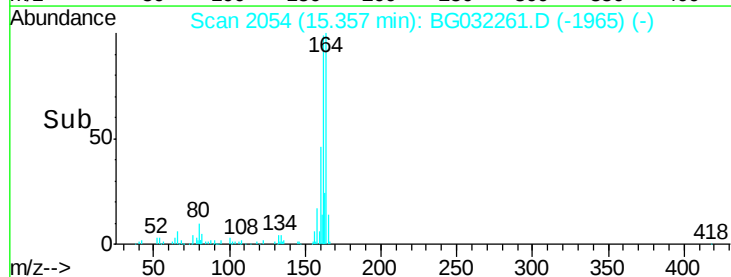
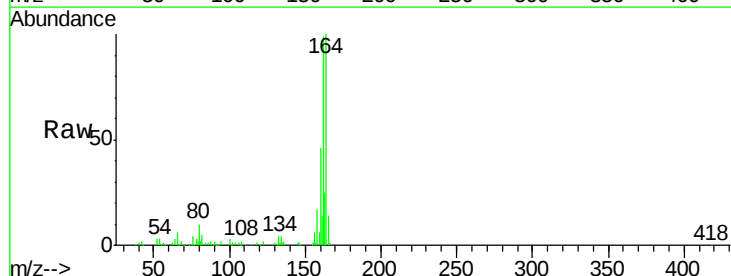
Instrument :  
 BNA\_G  
 ClientSampleId :  
 EPE-106-4A(85-87)

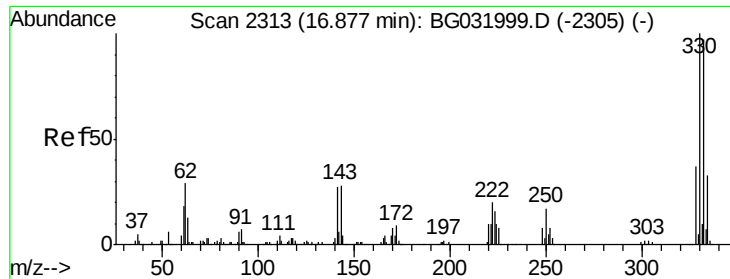
Tgt Ion: 82 Resp: 197888  
 Ion Ratio Lower Upper  
 82 100  
 128 45.9 29.7 44.5#  
 54 48.7 43.1 64.7



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 15.36 min Scan# 2054  
 Delta R.T. -0.01 min  
 Lab File: BG032261.D  
 Acq: 24 Jan 2018 15:17

Tgt Ion: 164 Resp: 96692  
 Ion Ratio Lower Upper  
 164 100  
 162 99.4 78.8 118.2  
 160 45.6 35.4 53.0

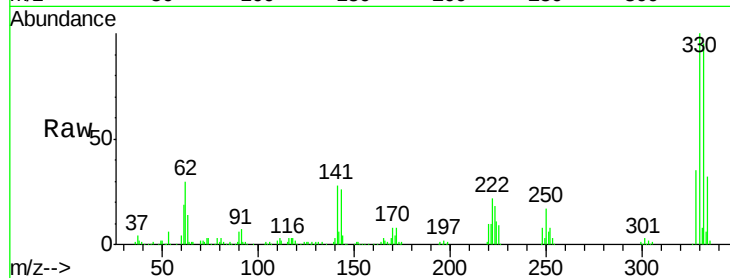




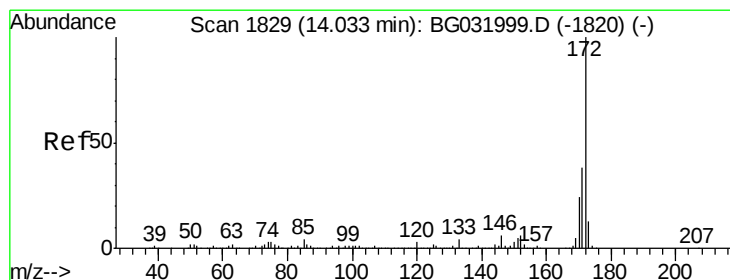
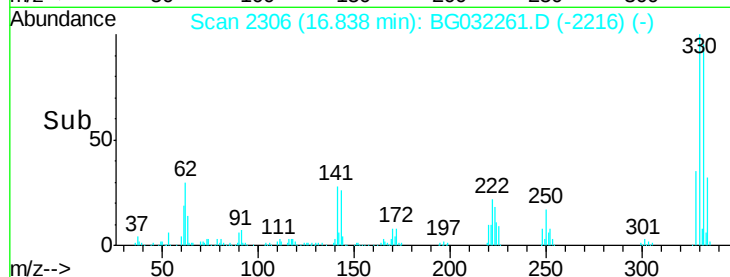
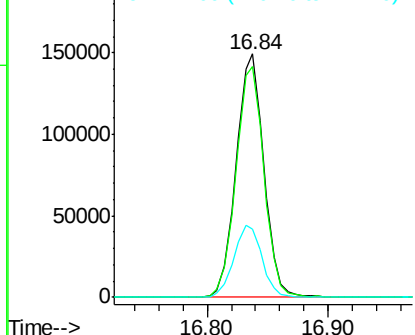
#41  
 2,4,6-Tribromophenol  
 Concen: 148.789 ng  
 RT: 16.84 min Scan# 2306  
 Delta R.T. 0.00 min  
 Lab File: BG032261.D  
 Acq: 24 Jan 2018 15:17

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EPE-106-4A(85-87)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.2  | 77.0  | 115.6 |
| 141     | 30.3  | 25.2  | 37.8  |

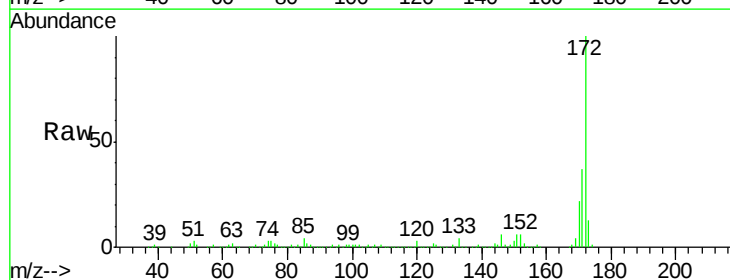


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

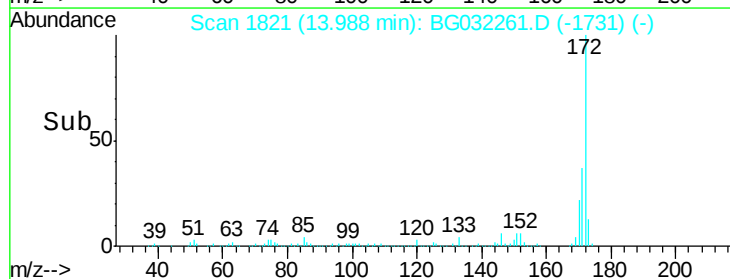
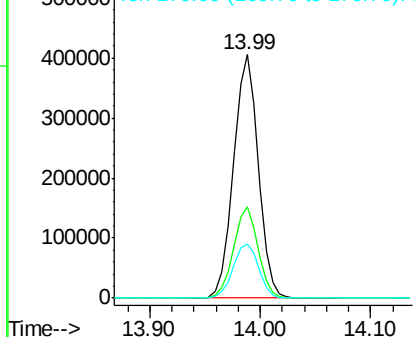


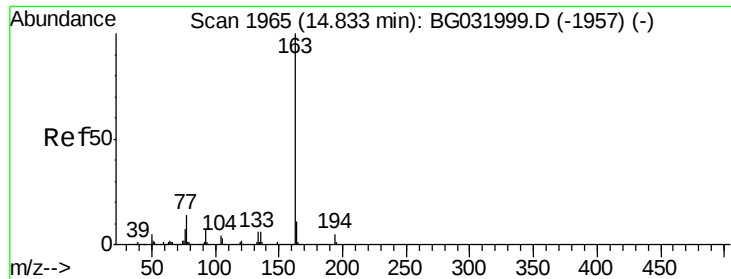
#44  
 2-Fluorobiphenyl  
 Concen: 81.799 ng  
 RT: 13.99 min Scan# 1821  
 Delta R.T. 0.00 min  
 Lab File: BG032261.D  
 Acq: 24 Jan 2018 15:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.4  | 30.0  | 45.0  |
| 170     | 22.5  | 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





#49

Dimethylphthalate

Concen: 10.089 ng

RT: 14.78 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BG032261.D

Acq: 24 Jan 2018 15:17

Instrument :

BNA\_G

ClientSampleId :

EPE-106-4A(85-87)

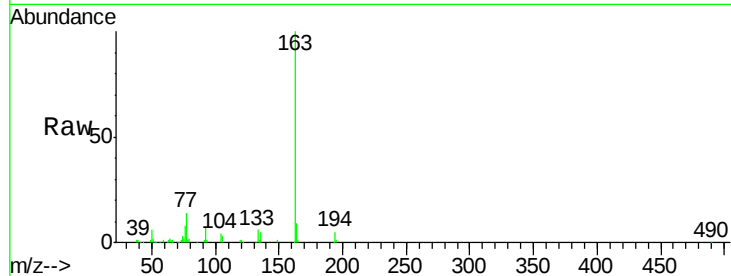
Tgt Ion:163 Resp: 85370

Ion Ratio Lower Upper

163 100

194 4.7 3.4 5.2

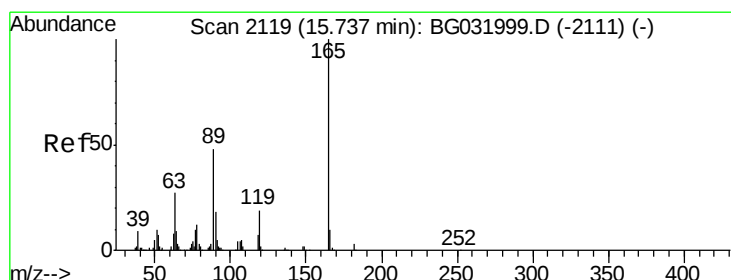
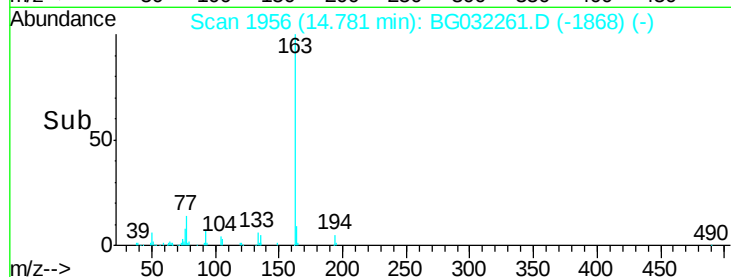
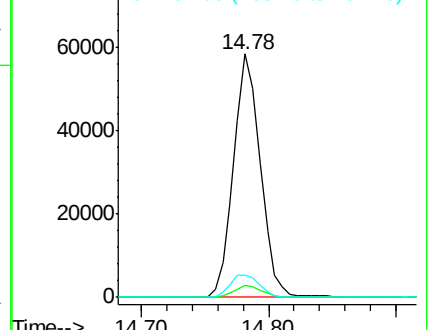
164 8.9 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#56

2,4-Dinitrotoluene

Concen: 5.391 ng

RT: 15.36 min Scan# 2054

Delta R.T. -0.34 min

Lab File: BG032261.D

Acq: 24 Jan 2018 15:17

Tgt Ion:165 Resp: 12748

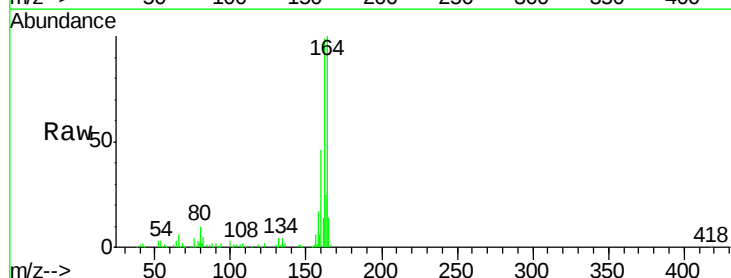
Ion Ratio Lower Upper

165 100

63 0.0 42.0 63.0#

89 1.9 66.9 100.3#

182 0.0 2.6 3.8#

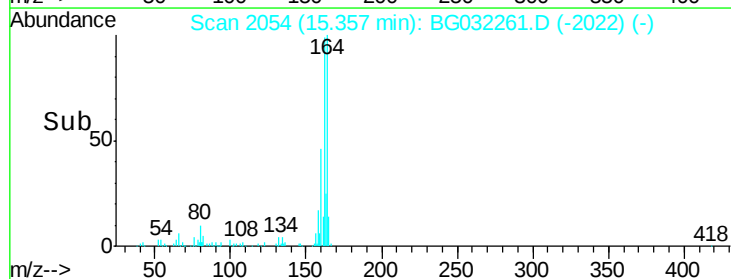
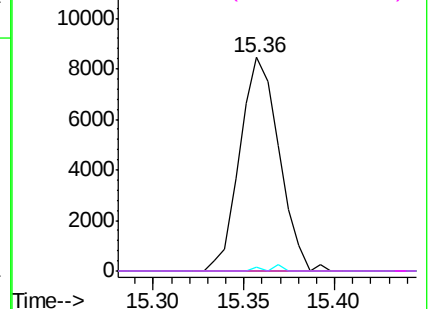


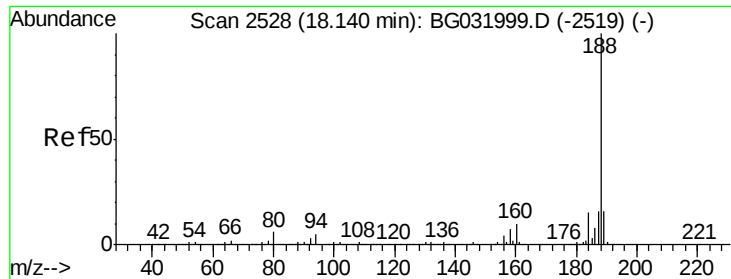
Abundance Ion 165.00 (164.70 to 165.70): E

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

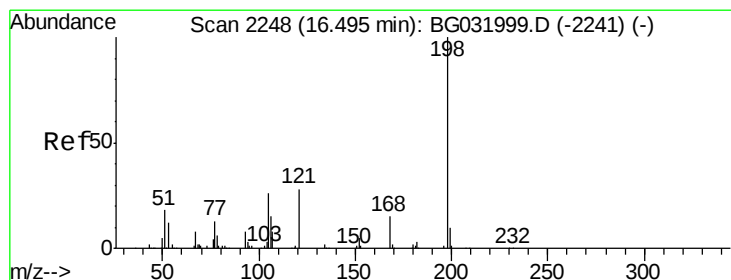
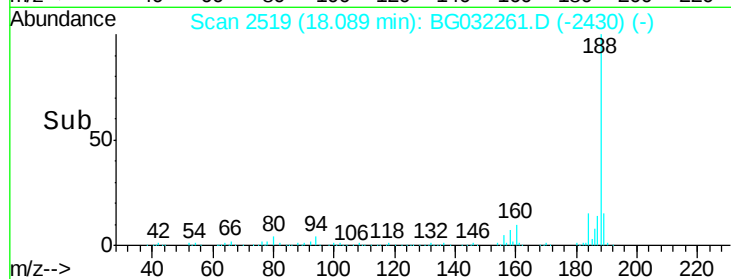
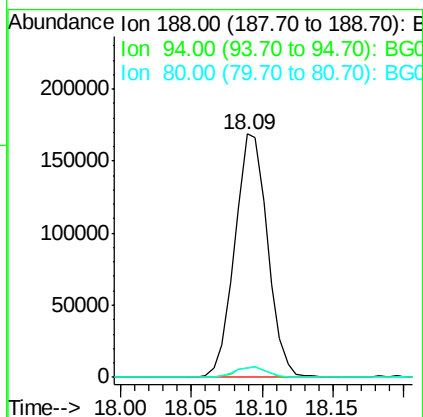
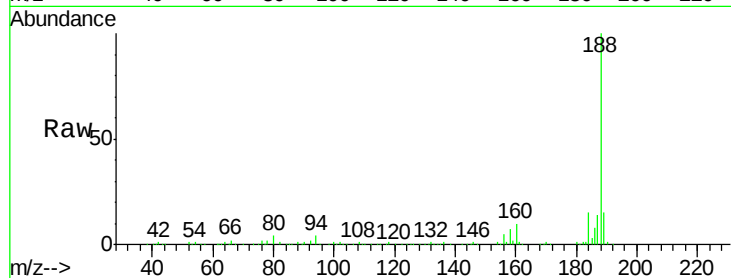




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.09 min Scan# 2519  
Delta R.T. -0.01 min  
Lab File: BG032261.D  
Acq: 24 Jan 2018 15:17

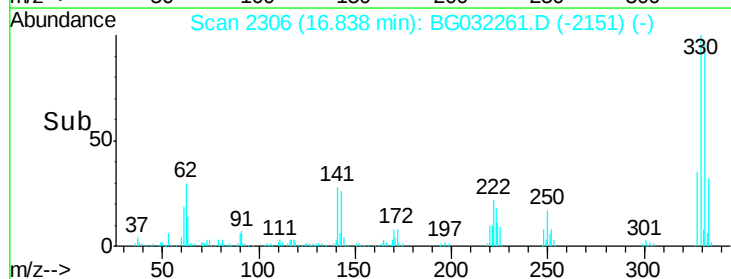
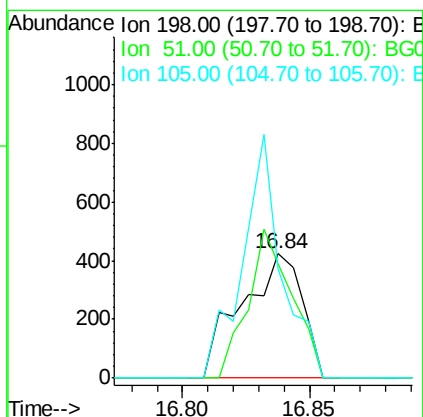
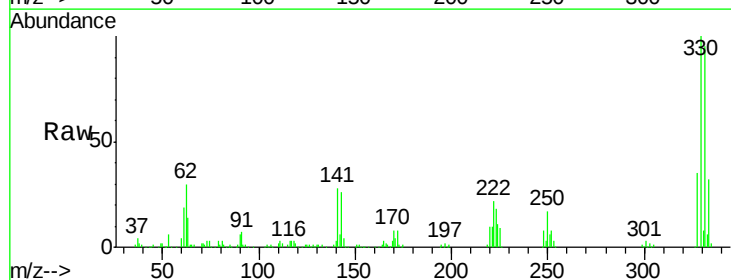
Instrument :  
BNA\_G  
ClientSampleId :  
EPE-106-4A(85-87)

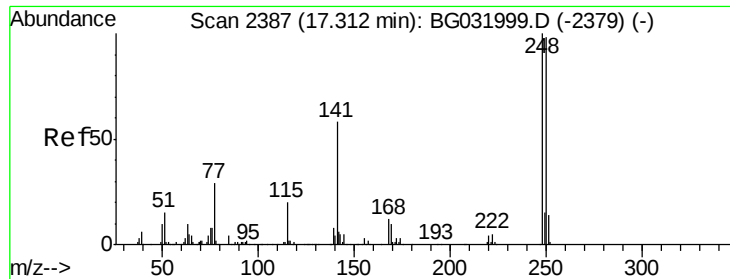
Tgt Ion:188 Resp: 273925  
Ion Ratio Lower Upper  
188 100  
94 4.0 6.9 10.3#  
80 3.8 7.7 11.5#



#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.245 ng  
RT: 16.84 min Scan# 2306  
Delta R.T. 0.38 min  
Lab File: BG032261.D  
Acq: 24 Jan 2018 15:17

Tgt Ion:198 Resp: 703  
Ion Ratio Lower Upper  
198 100  
51 92.4 30.6 70.6#  
105 87.7 23.8 63.8#

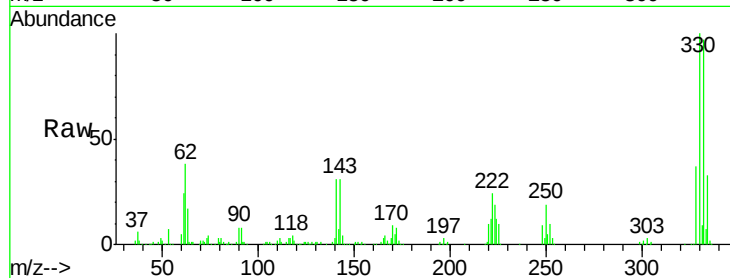




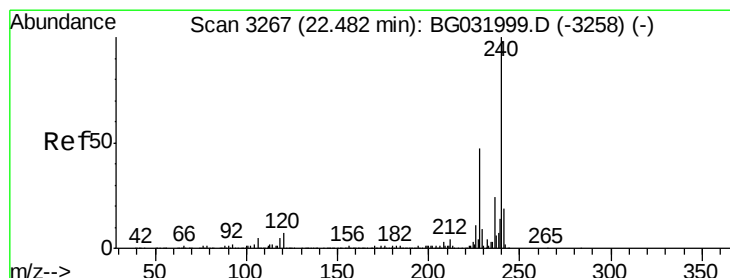
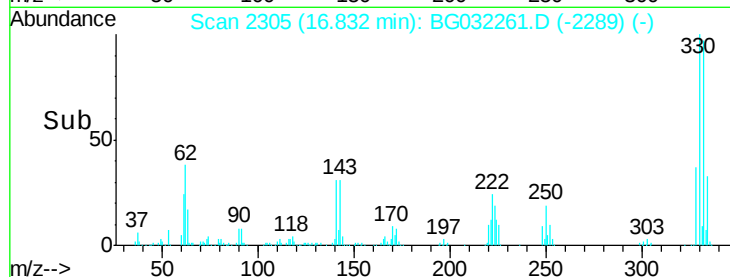
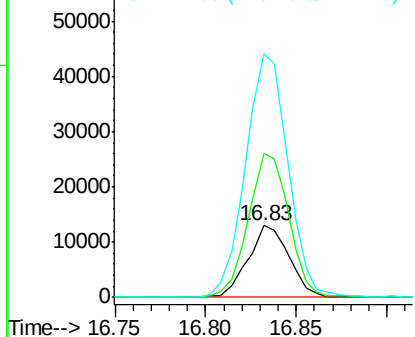
#66  
4-Bromophenyl-phenylether  
Concen: 5.221 ng  
RT: 16.83 min Scan# 2305  
Delta R.T. -0.43 min  
Lab File: BG032261.D  
Acq: 24 Jan 2018 15:17

Instrument :  
BNA\_G  
ClientSampleId :  
EPE-106-4A(85-87)

Tgt Ion:248 Resp: 20348  
Ion Ratio Lower Upper  
248 100  
250 200.6 77.1 115.7#  
141 338.2 50.8 76.2#

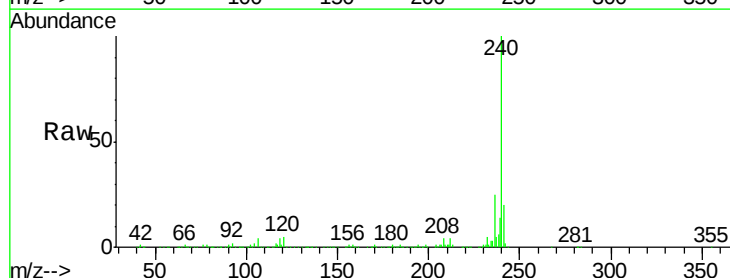


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

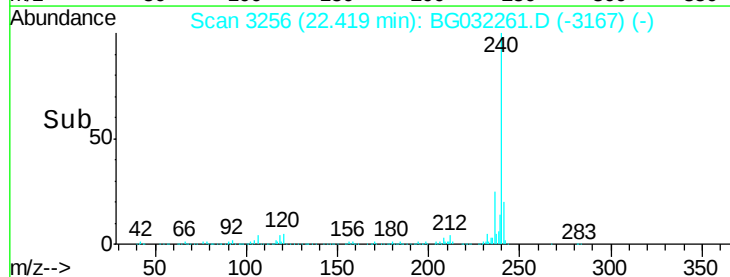
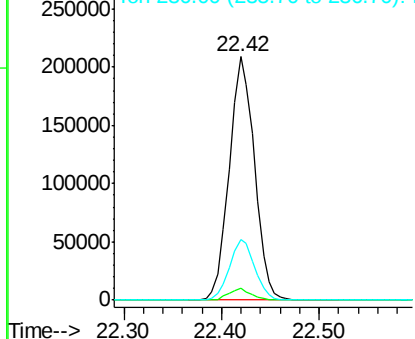


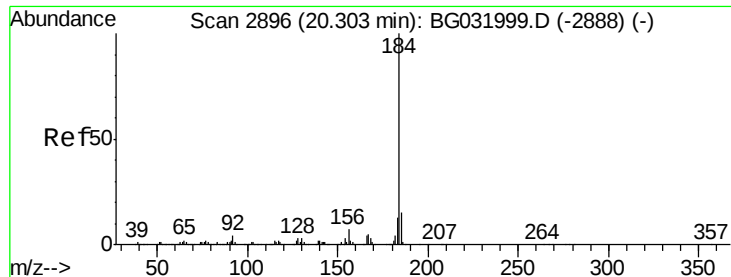
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.42 min Scan# 3256  
Delta R.T. -0.01 min  
Lab File: BG032261.D  
Acq: 24 Jan 2018 15:17

Tgt Ion:240 Resp: 375366  
Ion Ratio Lower Upper  
240 100  
120 4.7 6.8 10.2#  
236 25.1 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

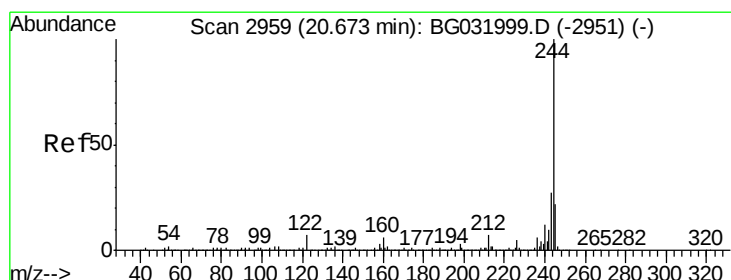
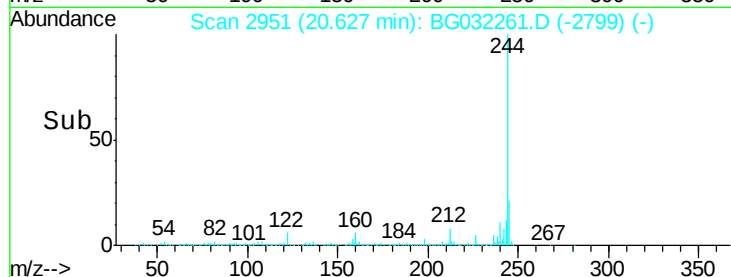
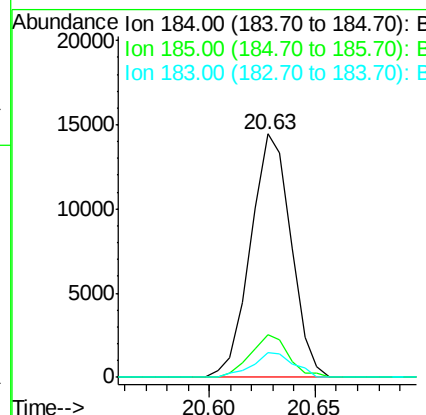
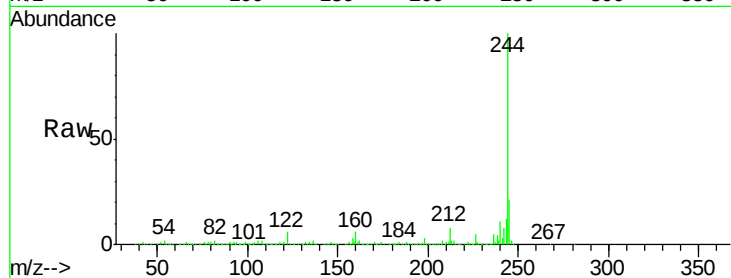




#76  
Benzidine  
Concen: 2.048 ng  
RT: 20.63 min Scan# 2951  
Delta R.T. 0.36 min  
Lab File: BG032261.D  
Acq: 24 Jan 2018 15:17

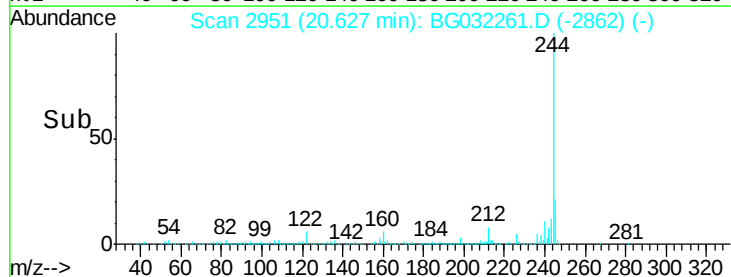
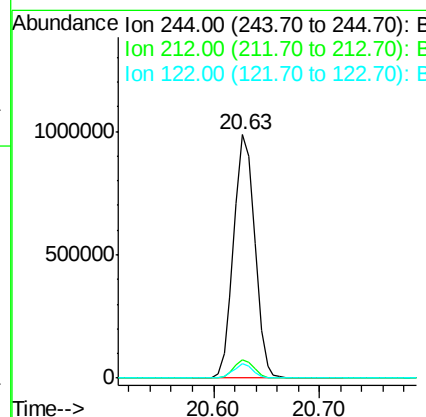
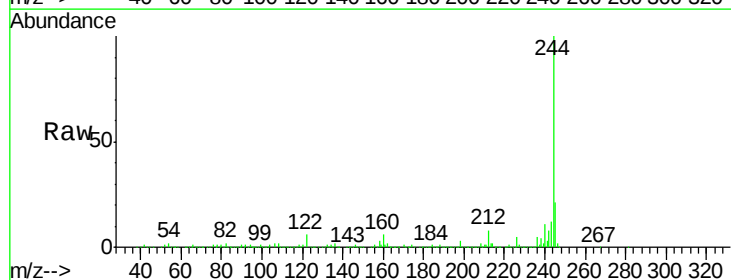
Instrument :  
BNA\_G  
ClientSampleId :  
EPE-106-4A(85-87)

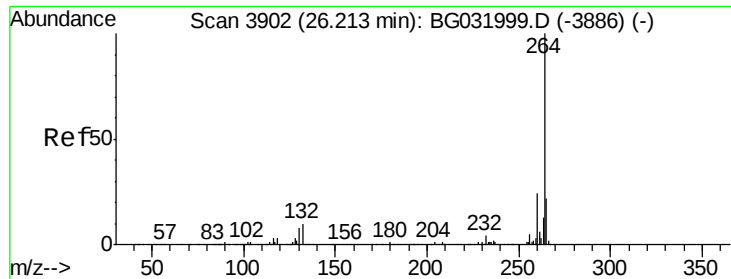
Tgt Ion:184 Resp: 19220  
Ion Ratio Lower Upper  
184 100  
185 17.4 11.1 16.7#  
183 10.1 10.6 16.0#



#78  
Terphenyl-d14  
Concen: 79.941 ng  
RT: 20.63 min Scan# 2951  
Delta R.T. -0.01 min  
Lab File: BG032261.D  
Acq: 24 Jan 2018 15:17

Tgt Ion:244 Resp: 1358992  
Ion Ratio Lower Upper  
244 100  
212 7.6 5.8 8.8  
122 6.1 7.0 10.4#





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 26.10 min Scan# 3883  
Delta R.T. -0.01 min  
Lab File: BG032261.D  
Acq: 24 Jan 2018 15:17

Instrument :  
BNA\_G  
ClientSampleId :  
EPE-106-4A(85-87)

Tgt Ion: 264 Resp: 386624  
Ion Ratio Lower Upper  
264 100  
260 23.2 17.4 26.0  
265 22.5 17.7 26.5

