

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG070220\  
 Data File : BG045918.D  
 Acq On : 2 Jul 2020 17:23  
 Operator : CG/JU  
 Sample : L3172-07  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP4-SS

Quant Time: Jul 03 00:36:42 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG061520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 02 14:02:29 2020  
 Response via : Initial Calibration

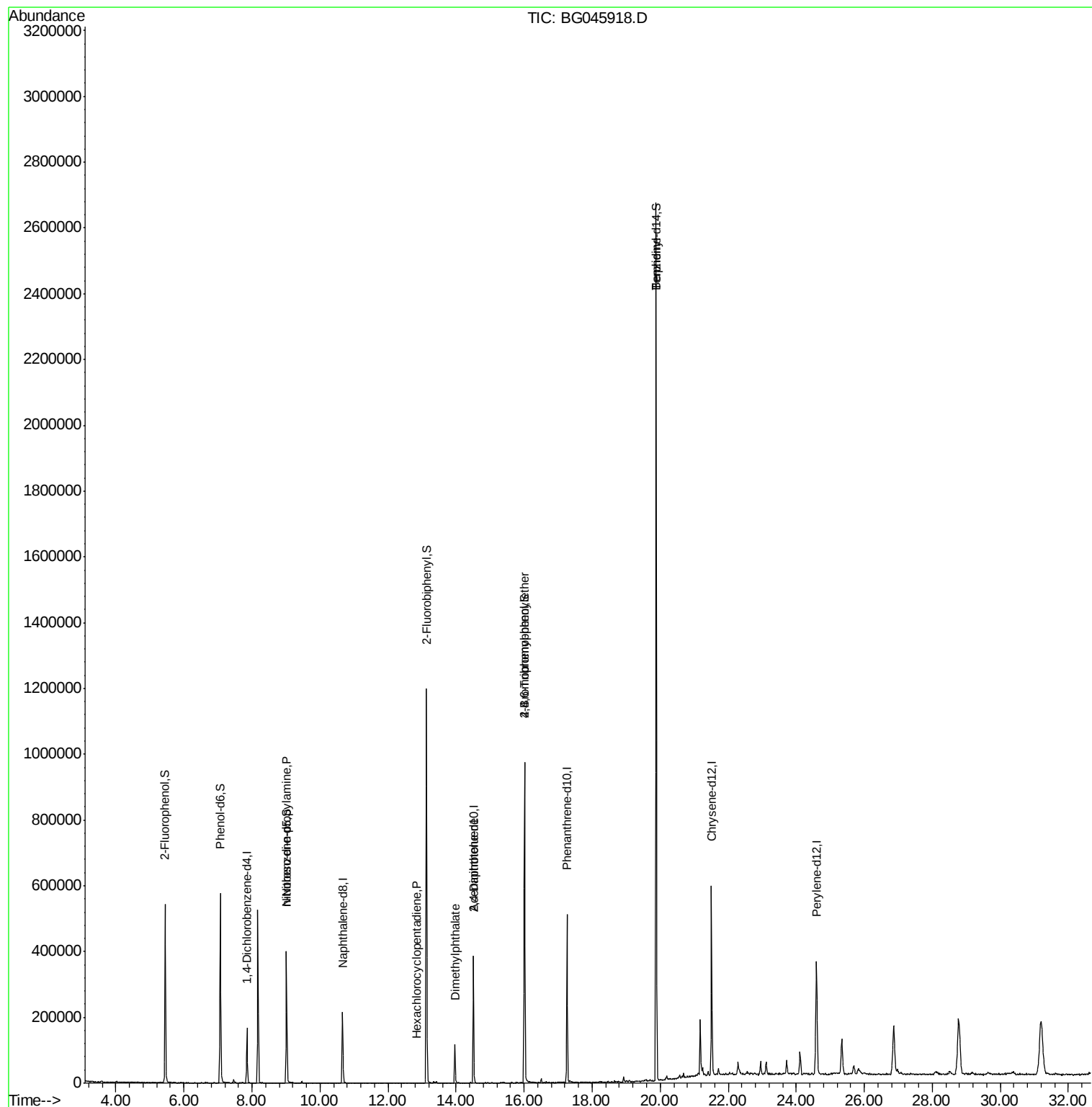
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.85  | 152  | 48676    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.66 | 136  | 190461   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.51 | 164  | 139709   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.26 | 188  | 330167   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.51 | 240  | 348061   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 24.59 | 264  | 359241   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.45  | 112  | 267499   | 92.83  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.07  | 99   | 383655   | 87.53  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.02  | 82   | 275584   | 66.10  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.01 | 330  | 201590   | 95.57  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.13 | 172  | 649316   | 68.30  | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.88 | 244  | 1233891  | 71.84  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.02  | 70   | 37537    | 13.026 | ng    | # 78     |
| 41) Hexachlorocyclopentadiene  | 12.85 | 237  | 57       | 8.439  | ng    | # 27     |
| 50) Dimethylphthalate          | 13.97 | 163  | 83363    | 7.617  | ng    | # 98     |
| 57) 2,4-Dinitrotoluene         | 14.51 | 165  | 18033    | 5.120  | ng    | # 23     |
| 67) 4-Bromophenyl-phenylether  | 16.01 | 248  | 13412    | 3.126  | ng    | # 1      |
| 77) Benzidine                  | 19.88 | 184  | 22113    | 2.444  | ng    | # 89     |

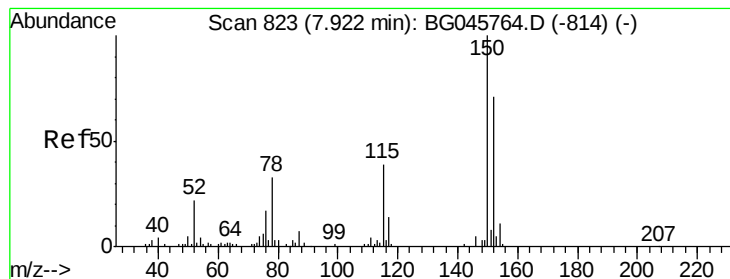
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG070220\  
Data File : BG045918.D  
Acq On : 2 Jul 2020 17:23  
Operator : CG/JU  
Sample : L3172-07  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
TP4-SS

Quant Time: Jul 03 00:36:42 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG061520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 02 14:02:29 2020  
Response via : Initial Calibration



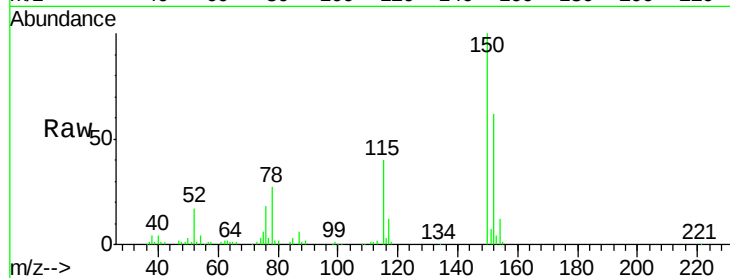


#1

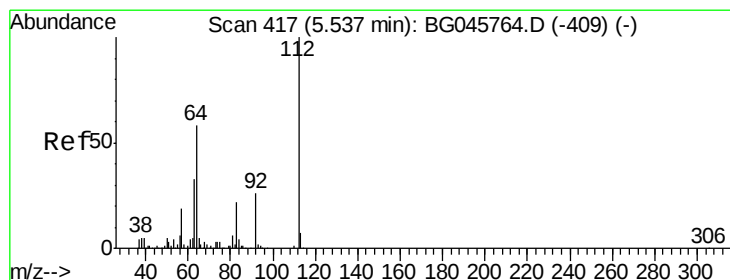
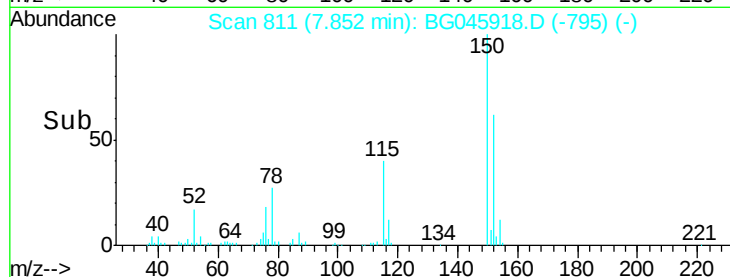
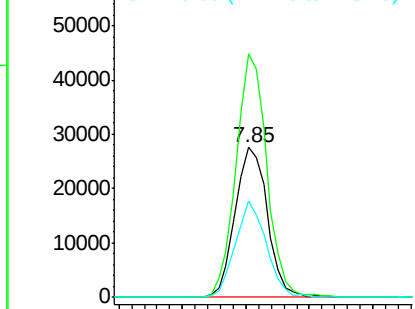
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.85 min Scan# 811  
Delta R.T. -0.01 min  
Lab File: BG045918.D  
Acq: 2 Jul 2020 17:23

Instrument :  
BNA\_G  
ClientSampleId :  
TP4-SS

Tot Ion:152 Resp: 48676  
Ion Ratio Lower Upper  
152 100  
150 162.3 124.5 186.7  
115 64.2 45.8 68.8



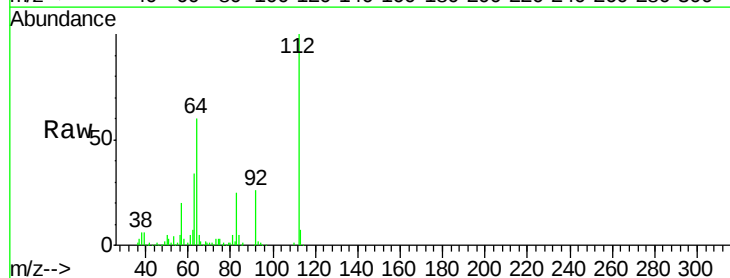
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



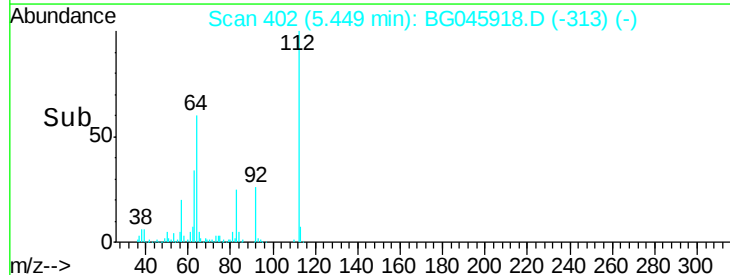
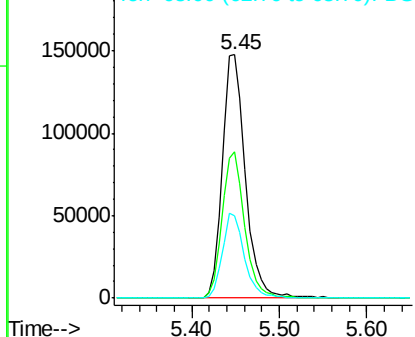
#5

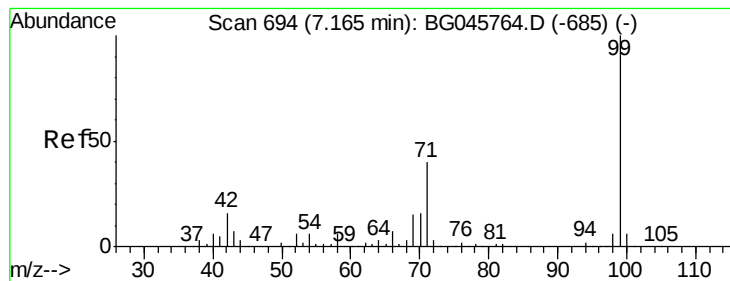
2-Fluorophenol  
Concen: 92.832 ng  
RT: 5.45 min Scan# 402  
Delta R.T. -0.01 min  
Lab File: BG045918.D  
Acq: 2 Jul 2020 17:23

Tgt Ion:112 Resp: 267499  
Ion Ratio Lower Upper  
112 100  
64 60.3 44.9 67.3  
63 34.1 26.9 40.3



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 87.531 ng

RT: 7.07 min Scan# 678

Delta R.T. -0.01 min

Lab File: BG045918.D

Acq: 2 Jul 2020 17:23

Instrument :

BNA\_G

ClientSampled :

TP4-SS

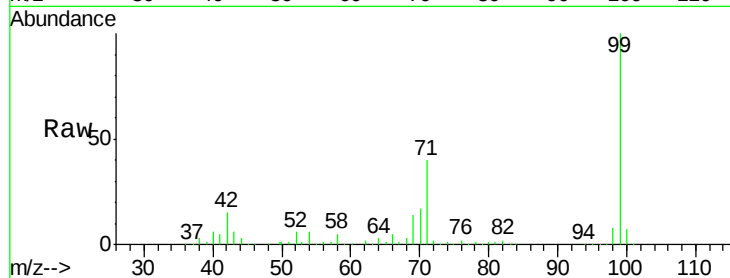
Tot Ion: 99 Resp: 383655

Ion Ratio Lower Upper

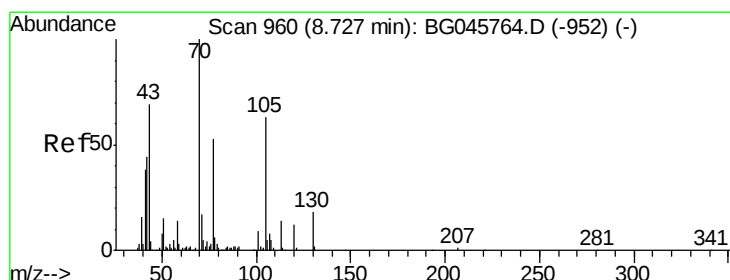
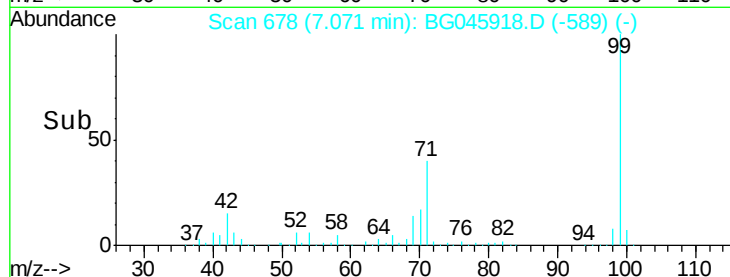
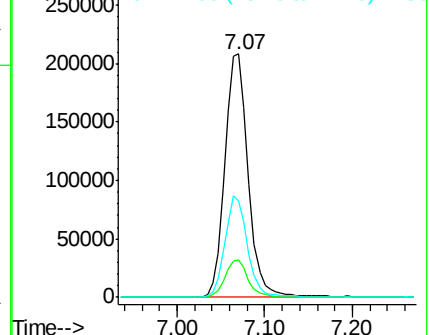
99 100

42 15.5 11.8 17.8

71 39.6 31.0 46.6



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: 13.026 ng

RT: 9.02 min Scan# 1009

Delta R.T. 0.35 min

Lab File: BG045918.D

Acq: 2 Jul 2020 17:23

Tgt Ion: 70 Resp: 37537

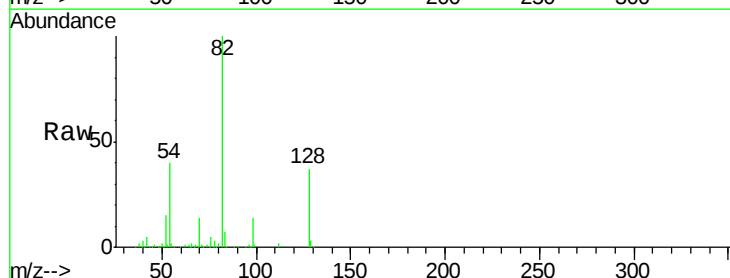
Ion Ratio Lower Upper

70 100

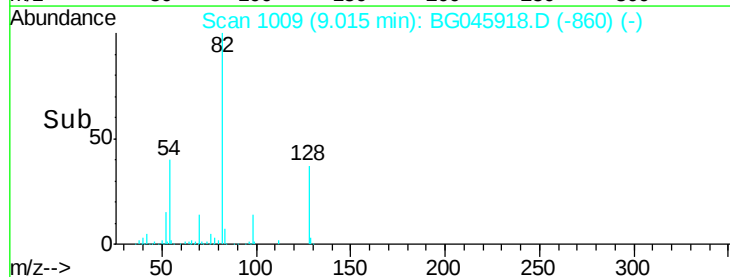
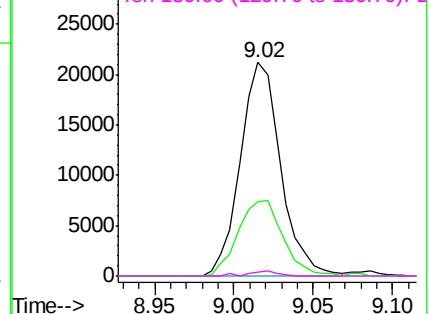
42 34.8 35.6 53.4#

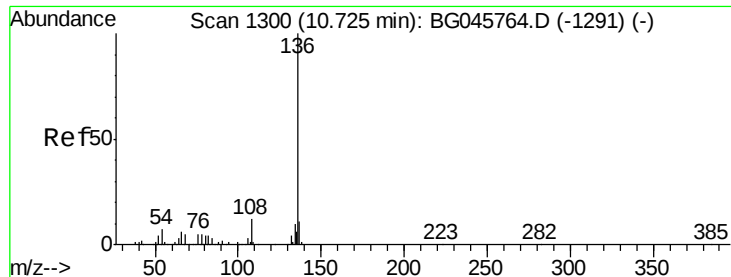
101 0.0 6.6 10.0#

130 2.0 14.8 22.2#



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

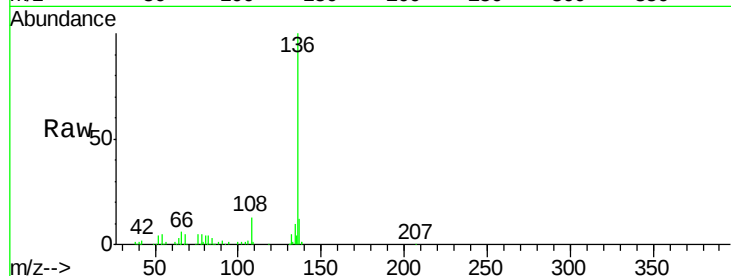




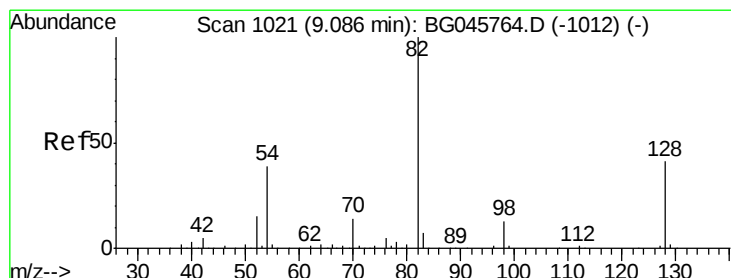
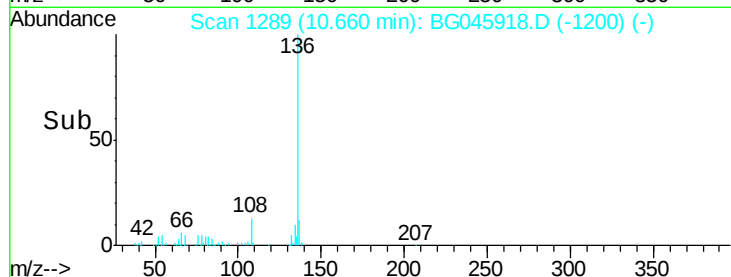
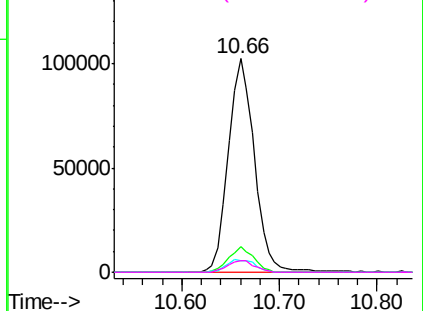
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.66 min Scan# 1289  
Delta R.T. -0.01 min  
Lab File: BG045918.D  
Acq: 2 Jul 2020 17:23

Instrument :  
BNA\_G  
ClientSampleId :  
TP4-SS

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 190461   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.8  | 8.2 12.4 |
| 54          | 5.3   | 4.6 7.0  |
| 68          | 5.5   | 5.0 7.4  |

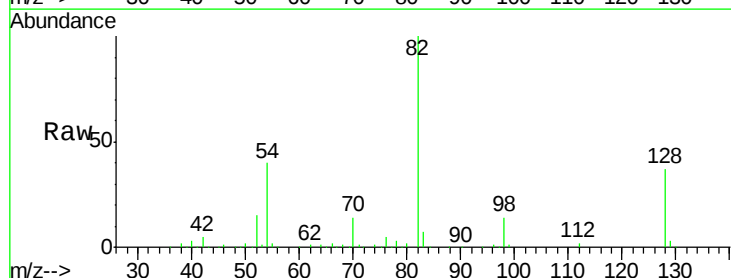


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

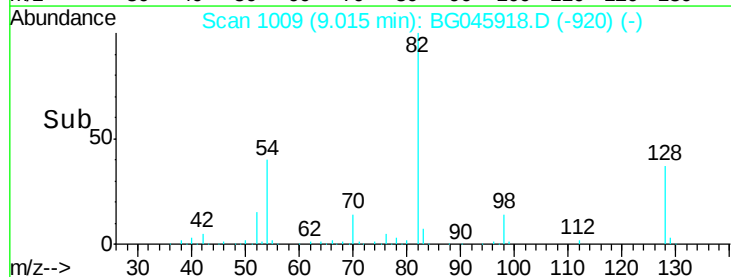
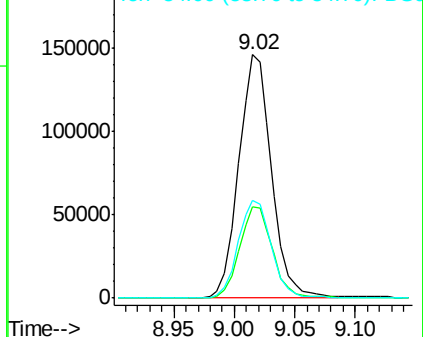


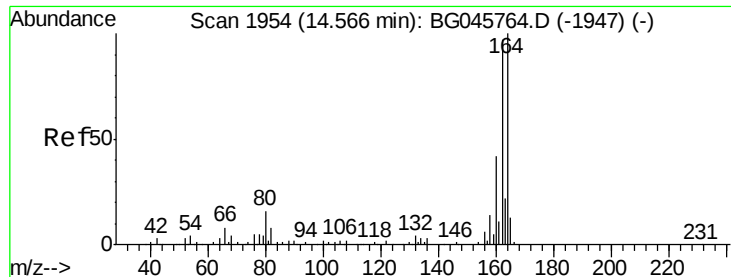
#23  
Nitrobenzene-d5  
Concen: 66.101 ng  
RT: 9.02 min Scan# 1009  
Delta R.T. -0.01 min  
Lab File: BG045918.D  
Acq: 2 Jul 2020 17:23

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 275584    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 37.4  | 29.9 44.9 |
| 54          | 40.0  | 33.3 49.9 |



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.51 min Scan# 1944

Delta R.T. -0.01 min

Lab File: BG045918.D

Acq: 2 Jul 2020 17:23

Instrument :

BNA\_G

ClientSampleId :

TP4-SS

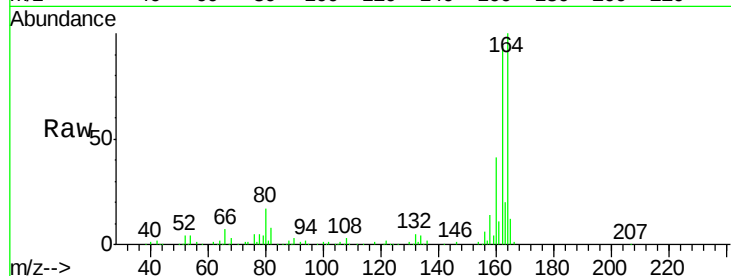
Tot Ion:164 Resp: 139709

Ion Ratio Lower Upper

164 100

162 94.2 78.8 118.2

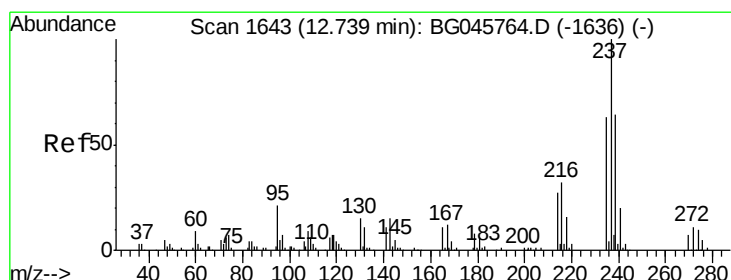
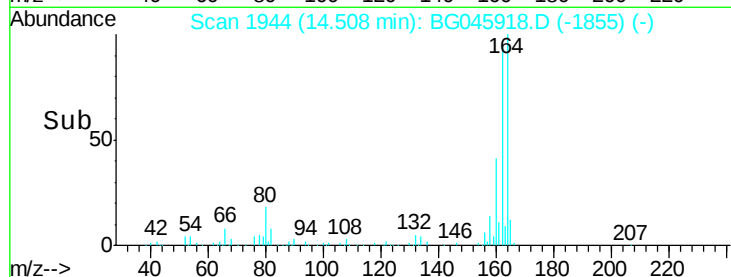
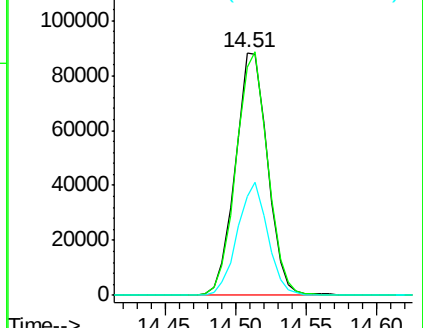
160 40.6 33.8 50.6



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

Hexachlorocyclopentadiene

Concen: 8.439 ng

RT: 12.85 min Scan# 1662

Delta R.T. 0.17 min

Lab File: BG045918.D

Acq: 2 Jul 2020 17:23

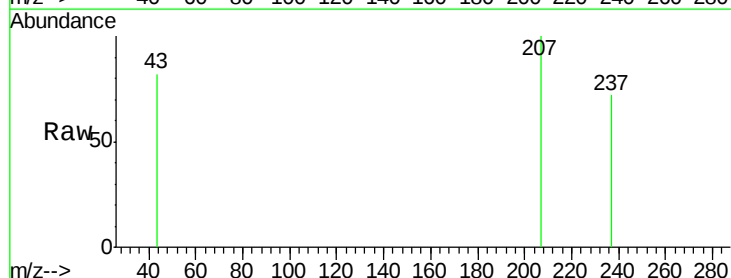
Tgt Ion:237 Resp: 57

Ion Ratio Lower Upper

237 100

235 0.0 43.3 83.3#

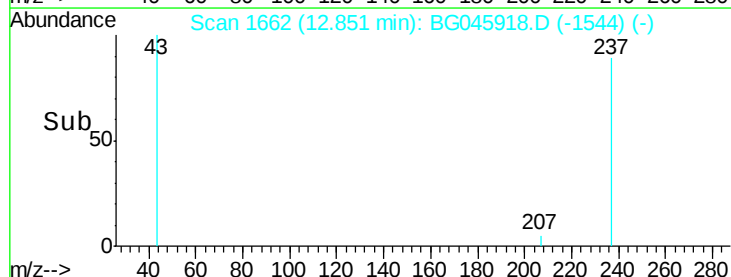
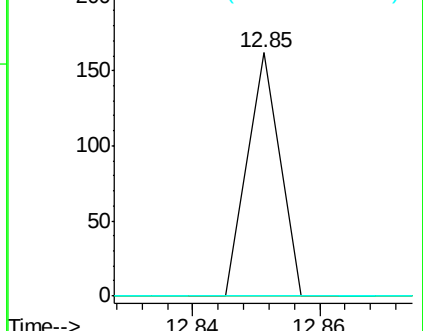
272 0.0 0.0 33.3

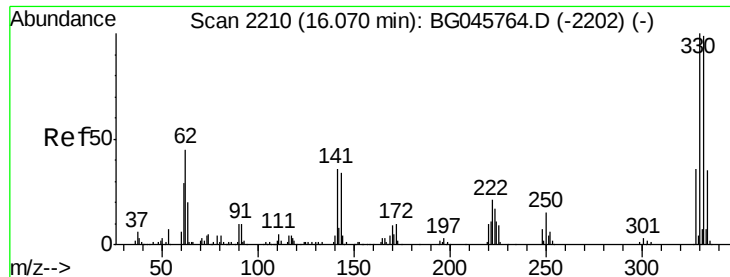


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

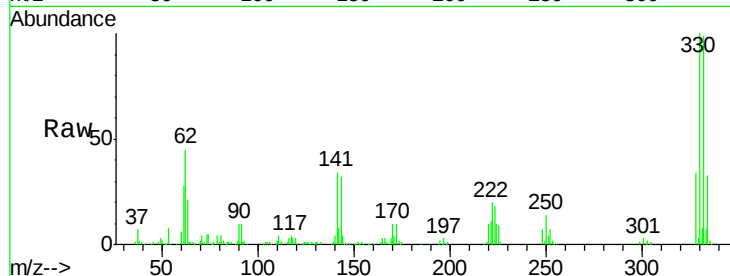




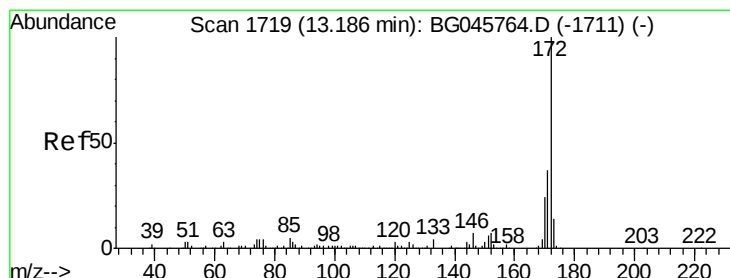
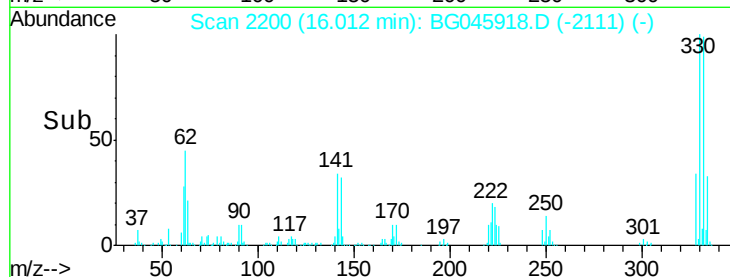
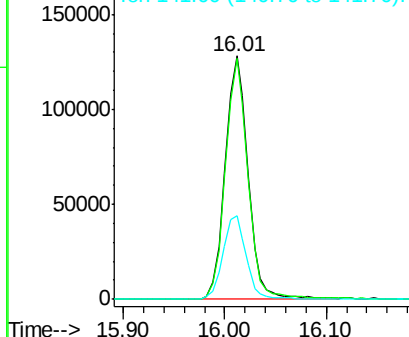
#42  
 2,4,6-Tribromophenol  
 Concen: 95.575 ng  
 RT: 16.01 min Scan# 2200  
 Delta R.T. -0.01 min  
 Lab File: BG045918.D  
 Acq: 2 Jul 2020 17:23

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP4-SS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.7  | 79.4  | 119.0 |
| 141     | 34.9  | 28.2  | 42.2  |

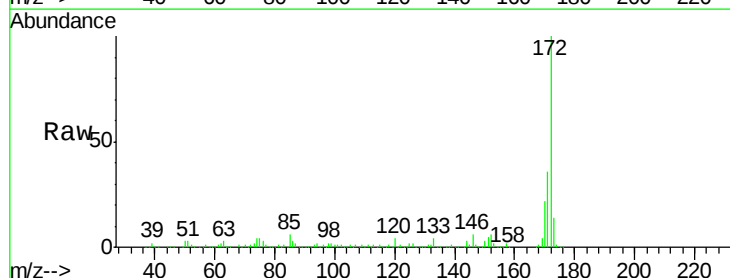


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

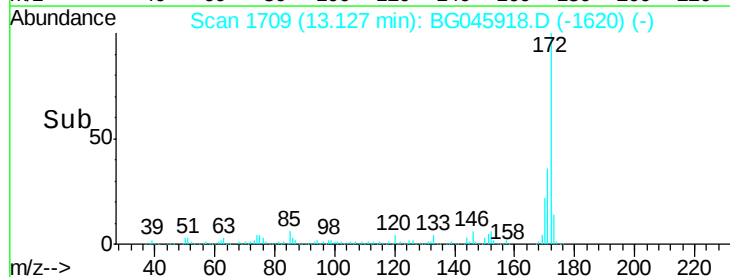
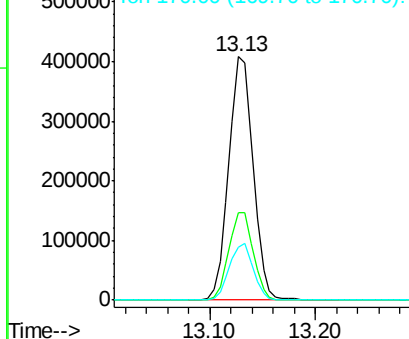


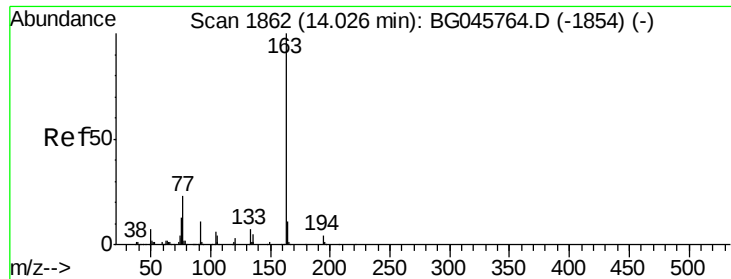
#45  
 2-Fluorobiphenyl  
 Concen: 68.300 ng  
 RT: 13.13 min Scan# 1709  
 Delta R.T. -0.01 min  
 Lab File: BG045918.D  
 Acq: 2 Jul 2020 17:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 28.5  | 42.7  |
| 170     | 21.8  | 18.9  | 28.3  |



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

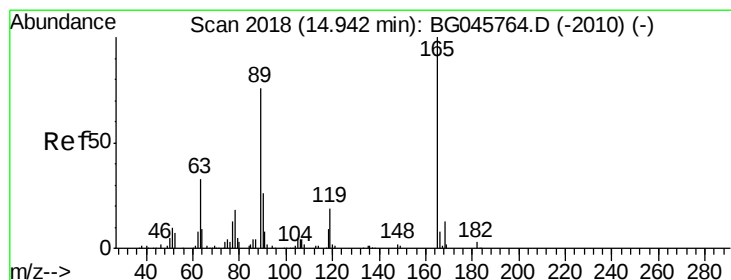
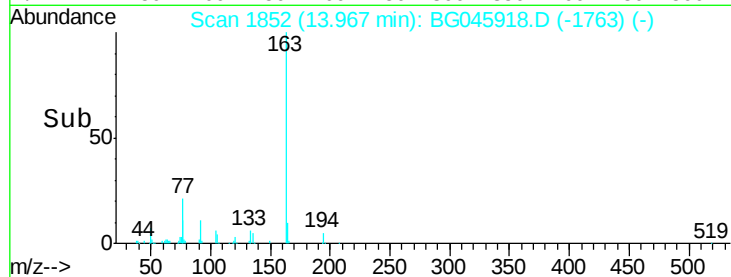
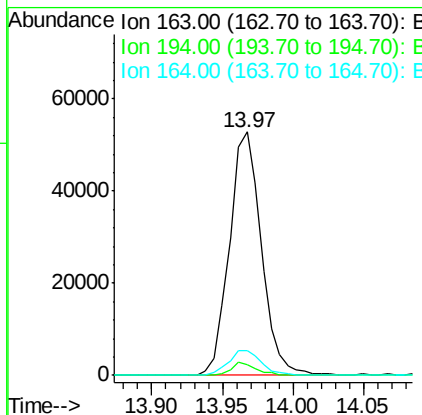
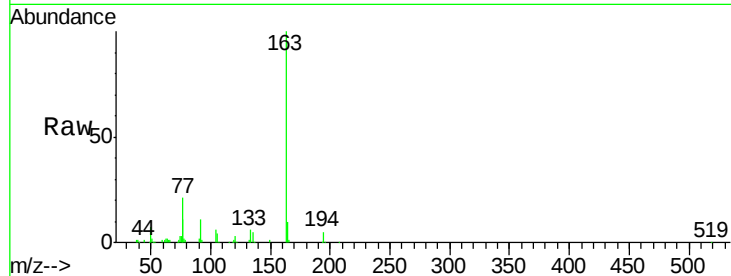




#50  
Dimethylphthalate  
Concen: 7.617 ng  
RT: 13.97 min Scan# 1852  
Delta R.T. -0.01 min  
Lab File: BG045918.D  
Acq: 2 Jul 2020 17:23

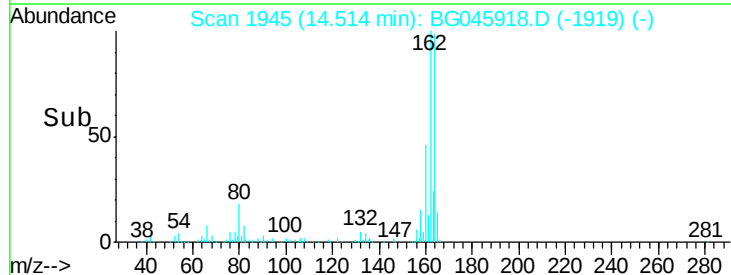
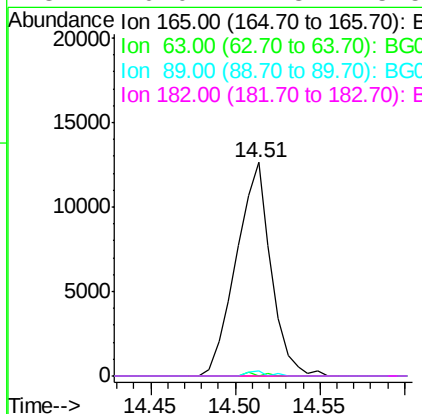
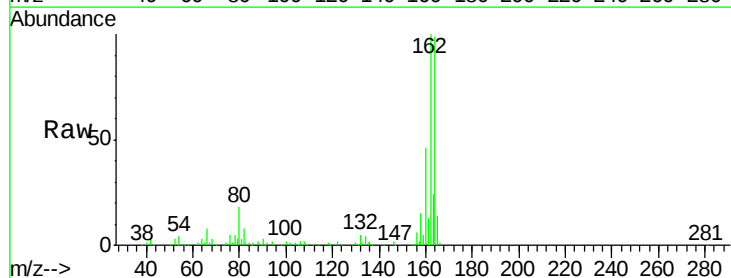
Instrument :  
BNA\_G  
ClientSampleId :  
TP4-SS

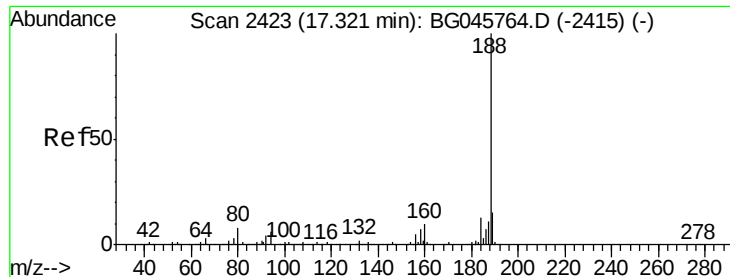
Tot Ion:163 Resp: 83363  
Ion Ratio Lower Upper  
163 100  
194 4.6 3.5 5.3  
164 10.0 8.7 13.1



#57  
2,4-Dinitrotoluene  
Concen: 5.120 ng  
RT: 14.51 min Scan# 1945  
Delta R.T. -0.38 min  
Lab File: BG045918.D  
Acq: 2 Jul 2020 17:23

Tgt Ion:165 Resp: 18033  
Ion Ratio Lower Upper  
165 100  
63 0.0 34.5 51.7#  
89 2.5 60.8 91.2#  
182 0.0 2.3 3.5#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.26 min Scan# 2413

Delta R.T. -0.01 min

Lab File: BG045918.D

Acq: 2 Jul 2020 17:23

Instrument :

BNA\_G

ClientSampleId :

TP4-SS

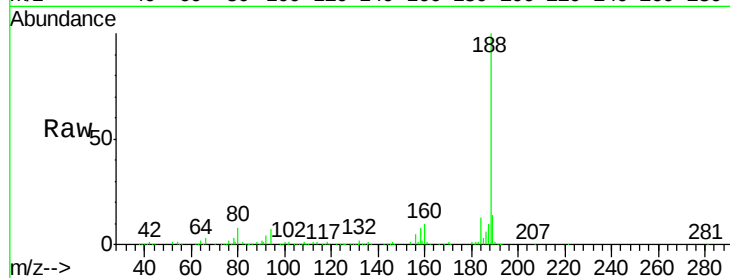
Tot Ion:188 Resp: 330167

Ion Ratio Lower Upper

188 100

94 6.9 5.5 8.3

80 7.7 6.1 9.1



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

300000

250000

200000

150000

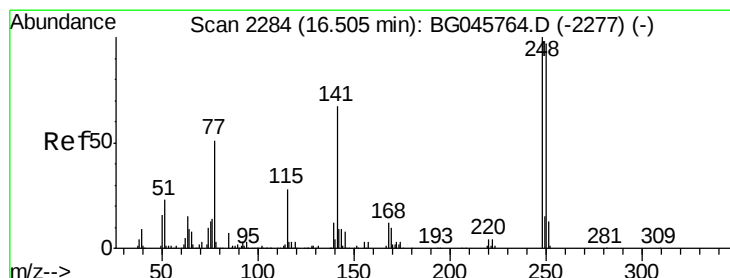
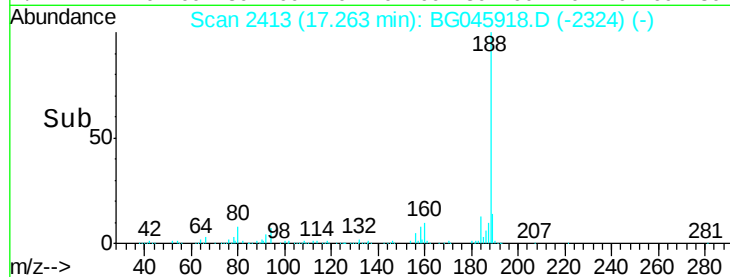
100000

50000

0

17.20 17.30

Time-->



#67

4-Bromophenyl-phenylether

Concen: 3.126 ng

RT: 16.01 min Scan# 2200

Delta R.T. -0.45 min

Lab File: BG045918.D

Acq: 2 Jul 2020 17:23

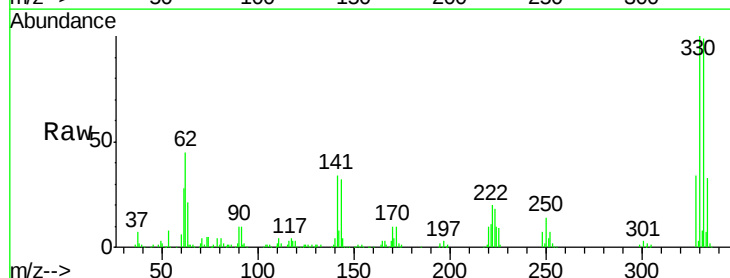
Tgt Ion:248 Resp: 13412

Ion Ratio Lower Upper

248 100

250 214.4 77.2 115.8#

141 520.8 52.6 79.0#



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

60000

50000

40000

30000

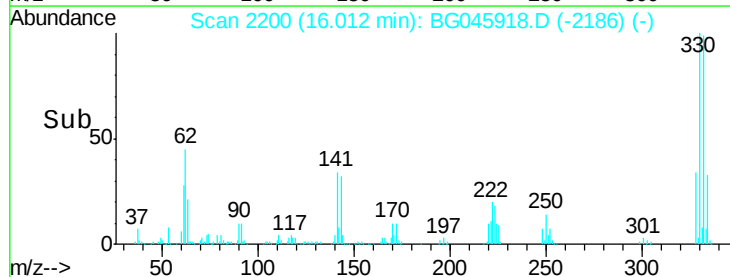
20000

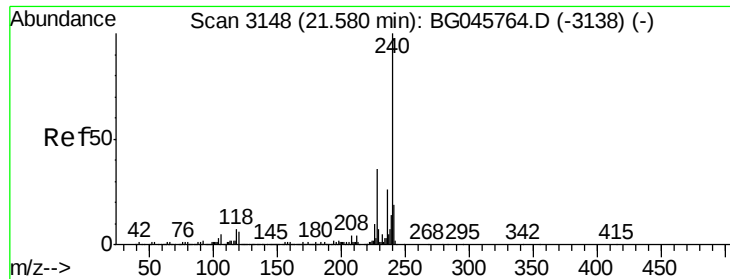
10000

0

15.95 16.00 16.05

Time-->

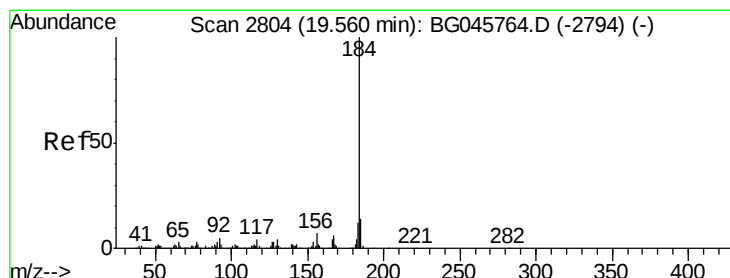
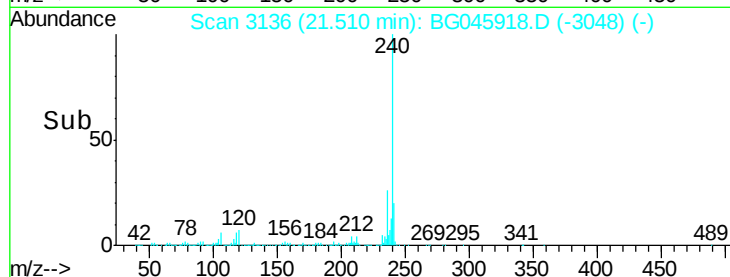
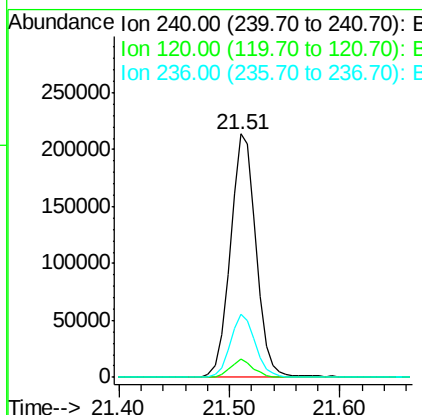
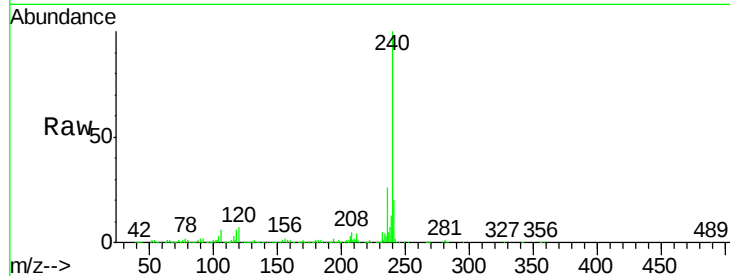




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.51 min Scan# 3136  
Delta R.T. -0.01 min  
Lab File: BG045918.D  
Acq: 2 Jul 2020 17:23

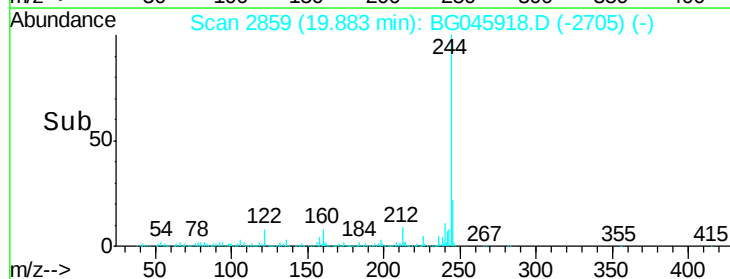
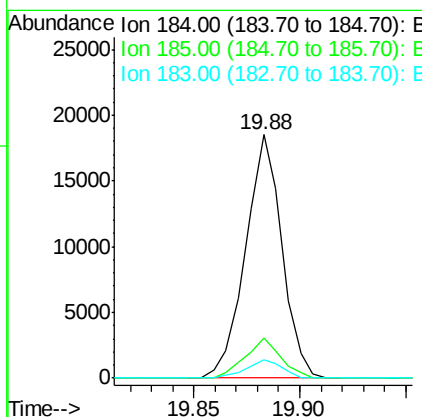
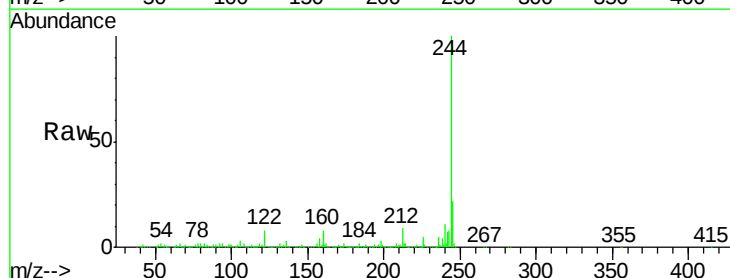
Instrument :  
BNA\_G  
ClientSampled :  
TP4-SS

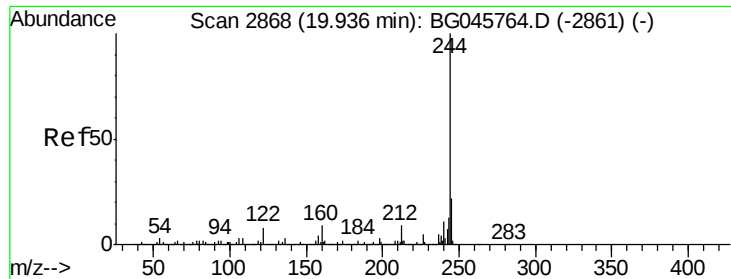
Tot Ion:240 Resp: 348061  
Ion Ratio Lower Upper  
240 100  
120 7.3 5.2 7.8  
236 25.8 20.8 31.2



#77  
Benzidine  
Concen: 2.444 ng  
RT: 19.88 min Scan# 2859  
Delta R.T. 0.38 min  
Lab File: BG045918.D  
Acq: 2 Jul 2020 17:23

Tgt Ion:184 Resp: 22113  
Ion Ratio Lower Upper  
184 100  
185 16.6 11.1 16.7  
183 7.3 10.6 15.8#



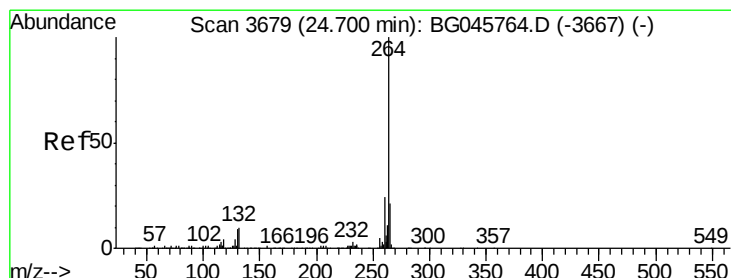
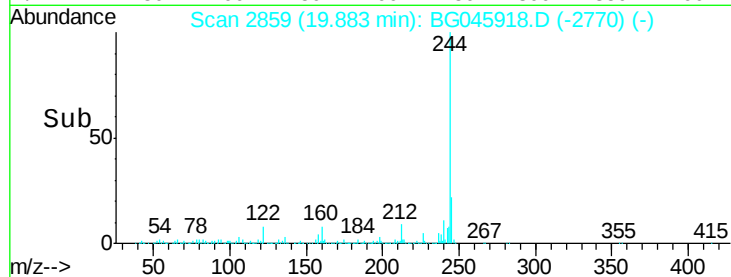
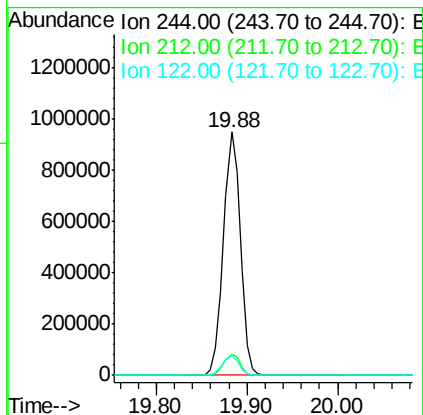
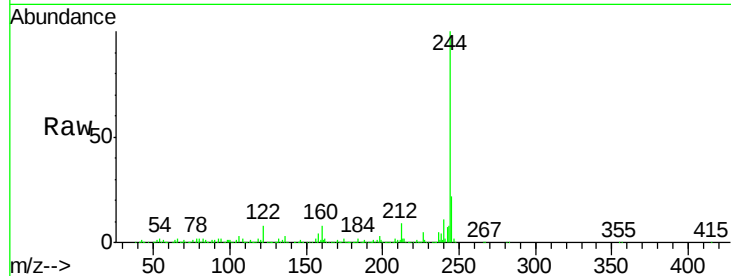


#79  
 Terphenyl-d14  
 Concen: 71.844 ng  
 RT: 19.88 min Scan# 2859  
 Delta R.T. -0.01 min  
 Lab File: BG045918.D  
 Acq: 2 Jul 2020 17:23

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP4-SS

Tot Ion:244 Resp: 1233891  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.8   | 7.0   | 10.6  |
| 122 | 8.1   | 6.6   | 9.8   |



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.59 min Scan# 3661  
 Delta R.T. -0.01 min  
 Lab File: BG045918.D  
 Acq: 2 Jul 2020 17:23

Tgt Ion:264 Resp: 359241  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.7  | 18.5  | 27.7  |
| 265 | 20.8  | 16.4  | 24.6  |

