

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG080119\  
 Data File : BG041875.D  
 Acq On : 1 Aug 2019 22:37  
 Operator : HP/JU  
 Sample : K4044-16RE  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-4

Quant Time: Aug 02 01:34:48 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG072719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 31 08:57:26 2019  
 Response via : Initial Calibration

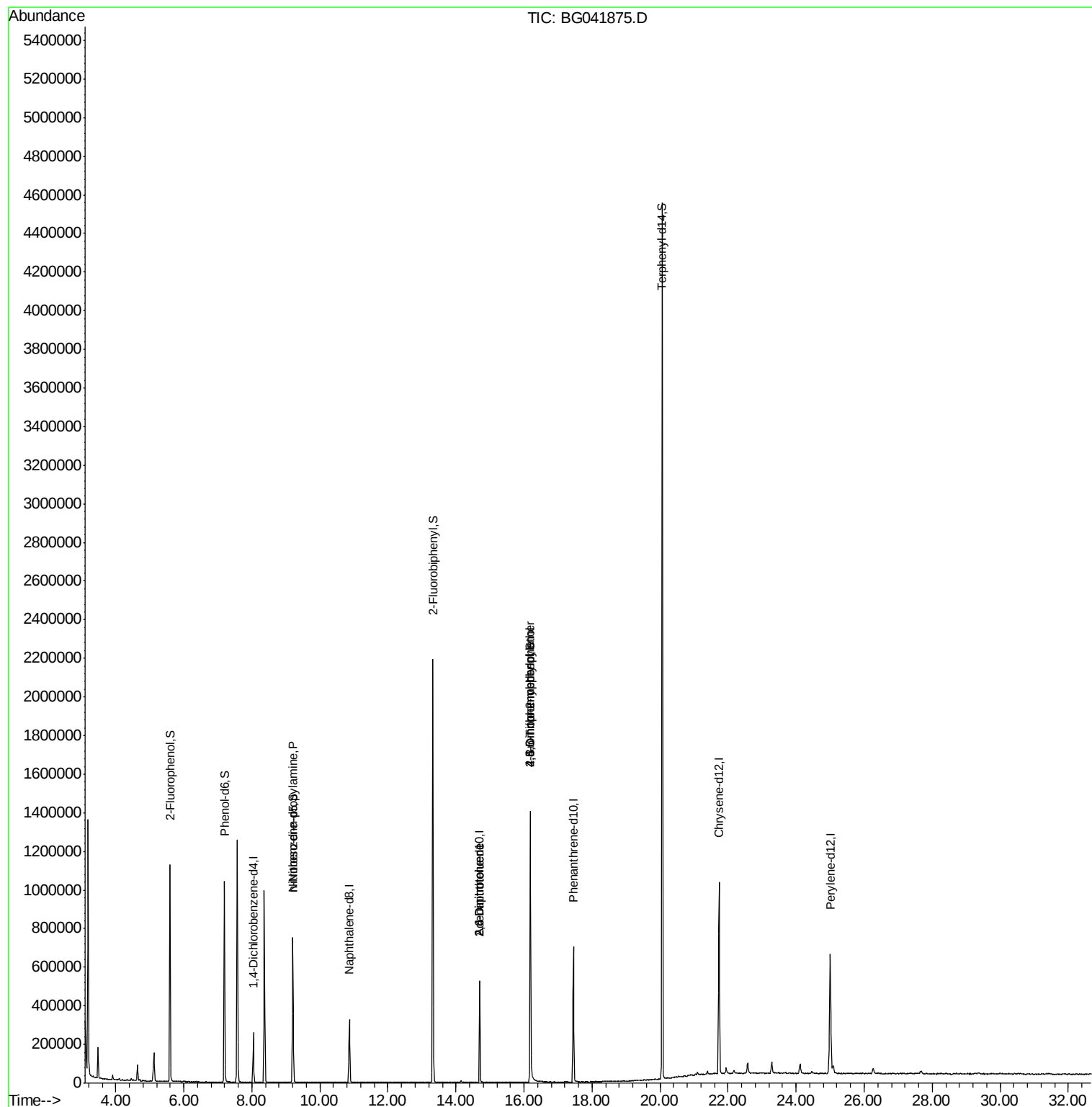
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.04  | 152  | 82044    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.86 | 136  | 300499   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.70 | 164  | 201355   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.45 | 188  | 456377   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.73 | 240  | 626525   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.00 | 264  | 751065   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.59  | 112  | 513664   | 121.81 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.19  | 99   | 620951   | 109.23 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.20  | 82   | 464702   | 106.42 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.19 | 330  | 319974   | 139.90 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.32 | 172  | 1168581  | 102.36 | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.07 | 244  | 2220210  | 81.09  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.20  | 70   | 61833    | 14.981 | ng    | # 70     |
| 51) 2,6-Dinitrotoluene         | 14.70 | 165  | 26089    | 9.073  | ng    | # 27     |
| 57) 2,4-Dinitrotoluene         | 14.70 | 165  | 26089    | 6.597  | ng    | # 29     |
| 65) 4,6-Dinitro-2-methylphenol | 16.18 | 198  | 949      | 7.217  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 16.18 | 248  | 23171    | 4.122  | ng    | # 1      |

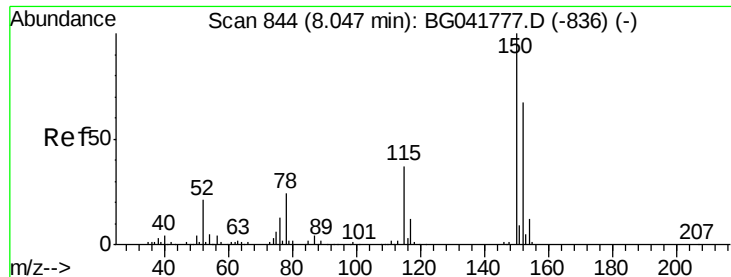
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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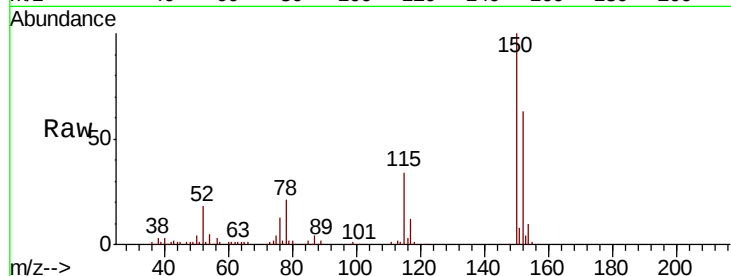


#1

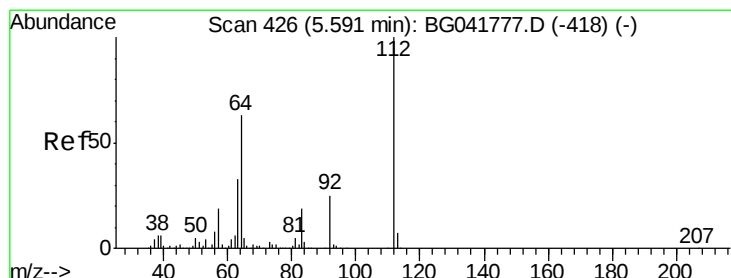
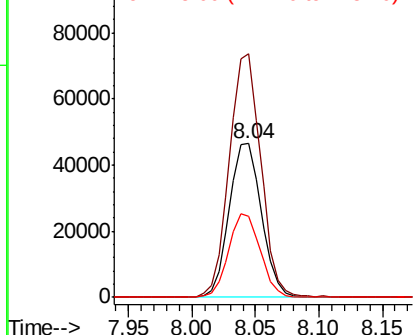
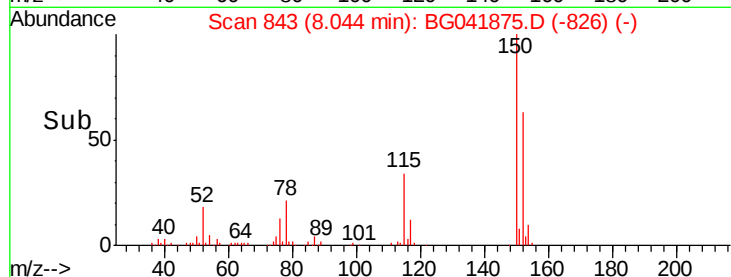
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.04 min Scan# 843  
Delta R.T. -0.00 min  
Lab File: BG041875.D  
Acq: 1 Aug 2019 22:37

Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

Tgt Ion:152 Resp: 82044  
Ion Ratio Lower Upper  
152 100  
150 158.4 126.9 190.3  
115 53.1 45.0 67.6



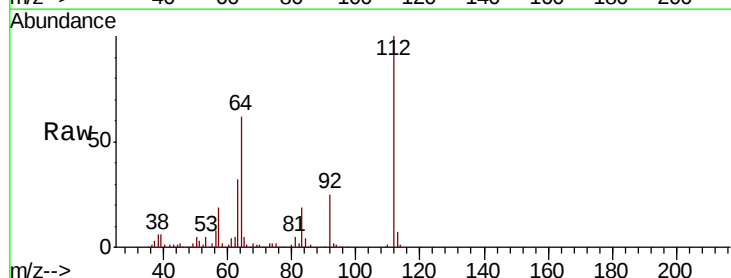
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



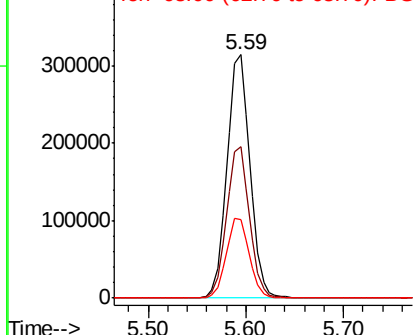
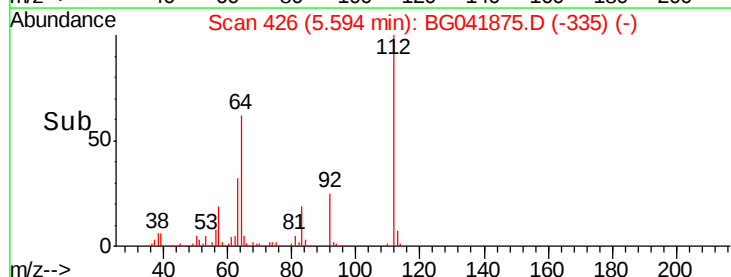
#5

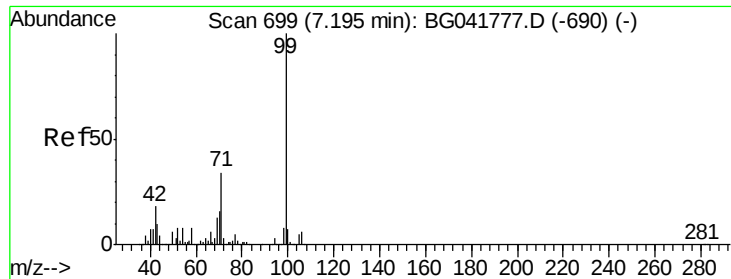
2-Fluorophenol  
Concen: 121.812 ng  
RT: 5.59 min Scan# 426  
Delta R.T. 0.00 min  
Lab File: BG041875.D  
Acq: 1 Aug 2019 22:37

Tgt Ion:112 Resp: 513664  
Ion Ratio Lower Upper  
112 100  
64 62.4 55.4 83.2  
63 32.4 29.1 43.7



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: 109.226 ng

RT: 7.19 min Scan# 698

Delta R.T. -0.00 min

Lab File: BG041875.D

Acq: 1 Aug 2019 22:37

Instrument :

BNA\_F

ClientSampleId :

TP-4

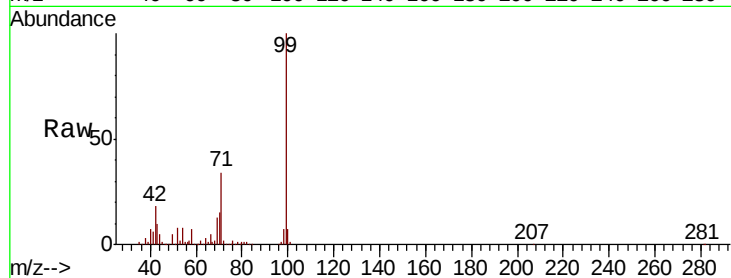
Tgt Ion: 99 Resp: 620951

Ion Ratio Lower Upper

99 100

42 18.4 17.6 26.4

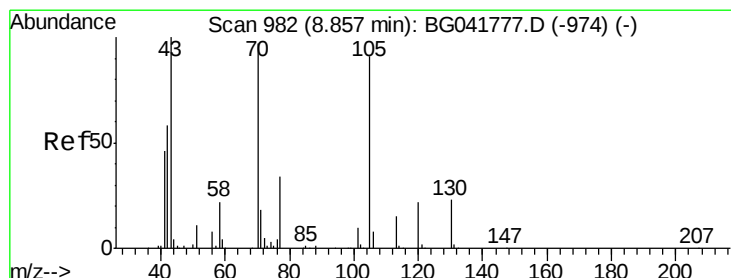
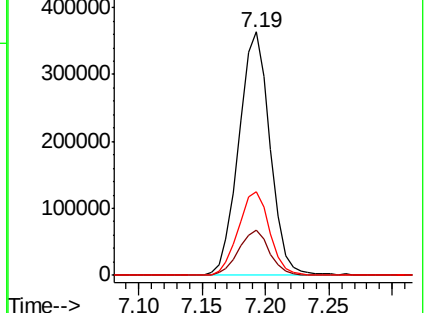
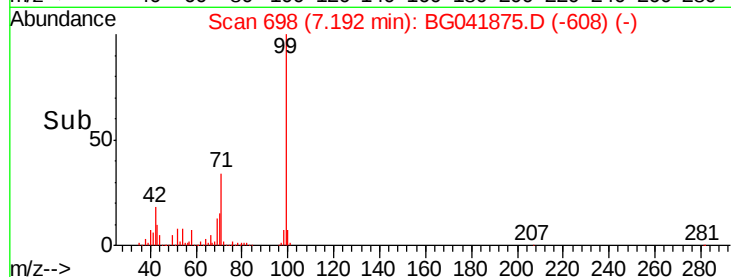
71 34.2 27.8 41.6



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: 14.981 ng

RT: 9.20 min Scan# 1040

Delta R.T. 0.34 min

Lab File: BG041875.D

Acq: 1 Aug 2019 22:37

Tgt Ion: 70 Resp: 61833

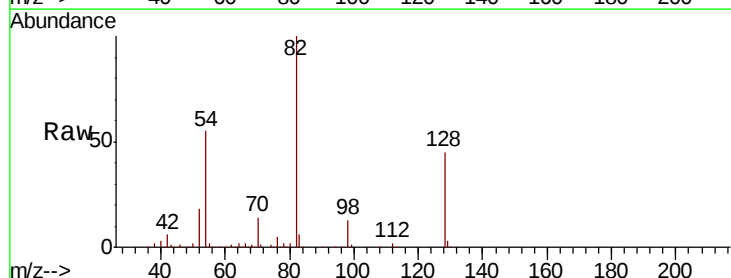
Ion Ratio Lower Upper

70 100

42 47.5 55.8 83.6#

101 0.0 8.1 12.1#

130 1.9 17.3 25.9#

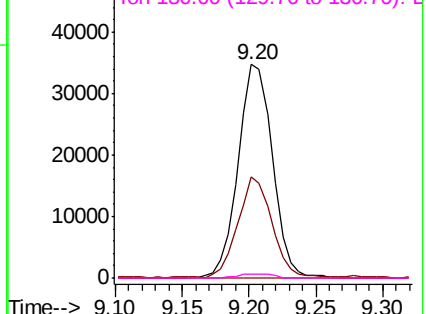
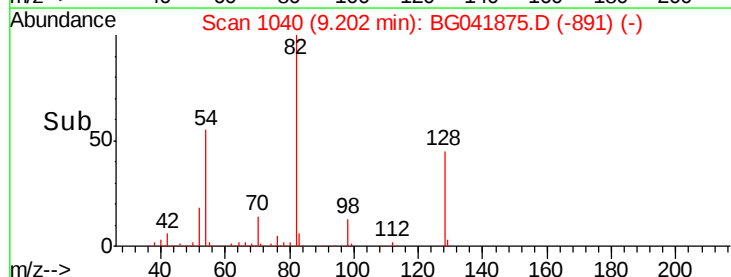


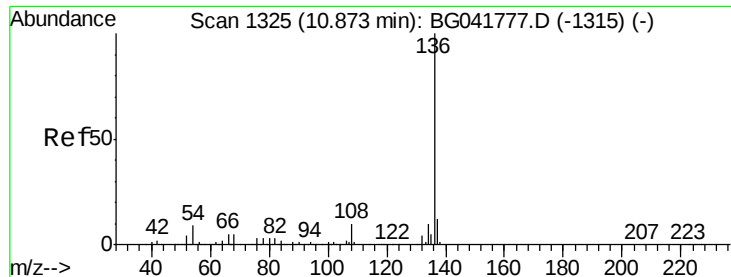
Abundance Ion 70.00 (69.70 to 70.70): BGC

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

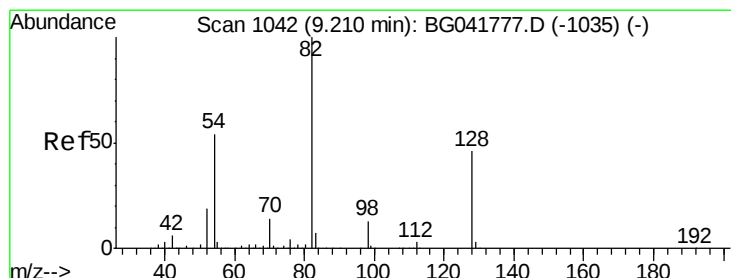
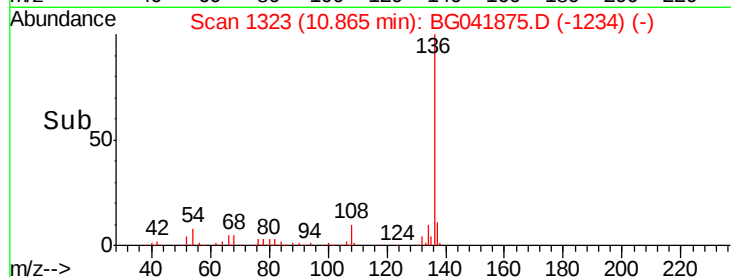
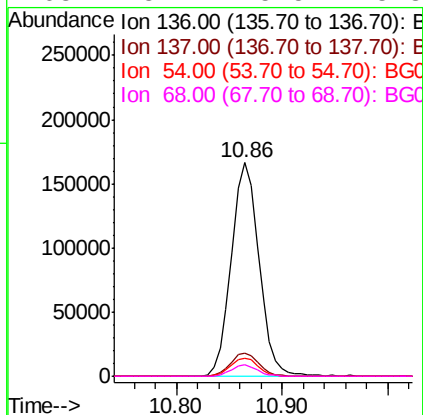
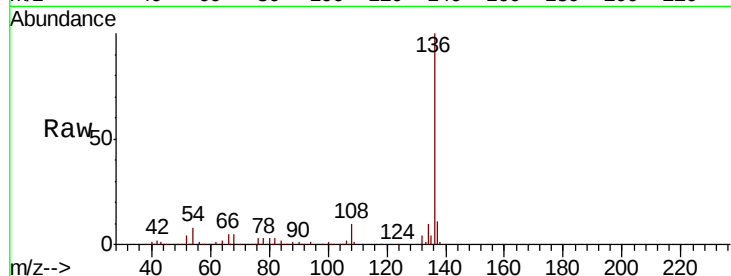




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1323  
Delta R.T. -0.01 min  
Lab File: BG041875.D  
Acq: 1 Aug 2019 22:37

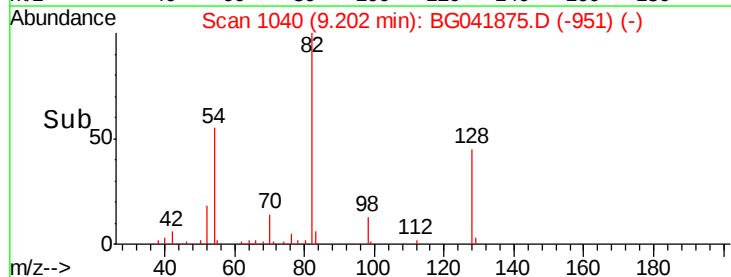
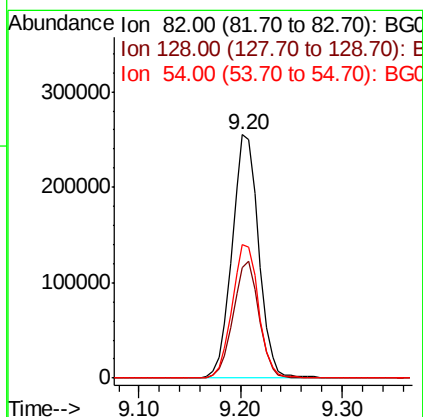
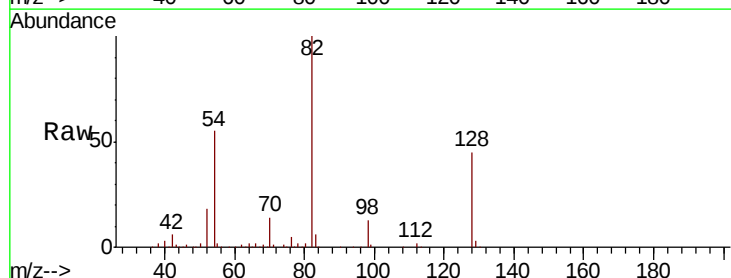
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

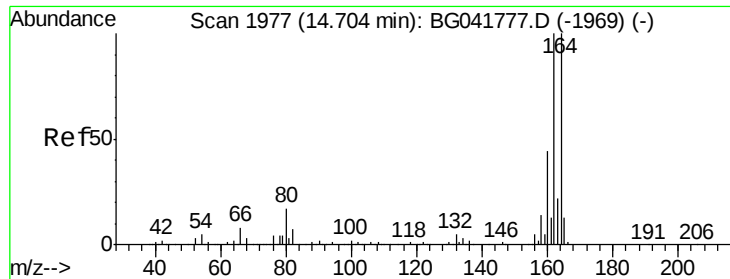
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 300499 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 9.2   | 13.8   |
| 54       | 8.4   | 8.7   | 13.1#  |
| 68       | 5.4   | 5.5   | 8.3#   |



#23  
Nitrobenzene-d5  
Concen: 106.420 ng  
RT: 9.20 min Scan# 1040  
Delta R.T. -0.01 min  
Lab File: BG041875.D  
Acq: 1 Aug 2019 22:37

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 464702 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 45.3  | 35.1  | 52.7   |
| 54       | 54.7  | 48.7  | 73.1   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.70 min Scan# 1975

Delta R.T. -0.01 min

Lab File: BG041875.D

Acq: 1 Aug 2019 22:37

Instrument :

BNA\_F

ClientSampleId :

TP-4

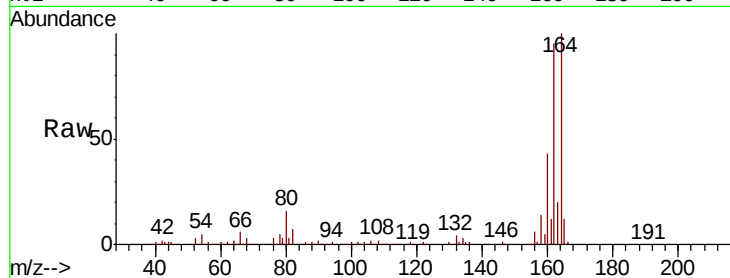
Tgt Ion:164 Resp: 201355

Ion Ratio Lower Upper

164 100

162 94.8 79.6 119.4

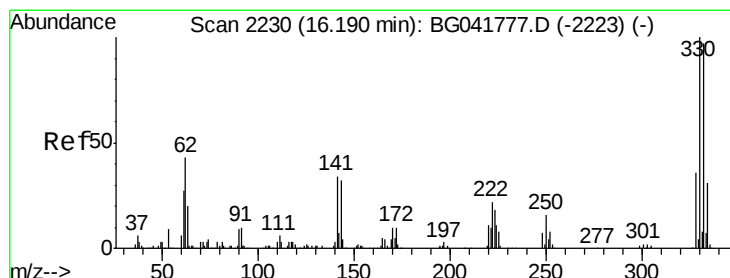
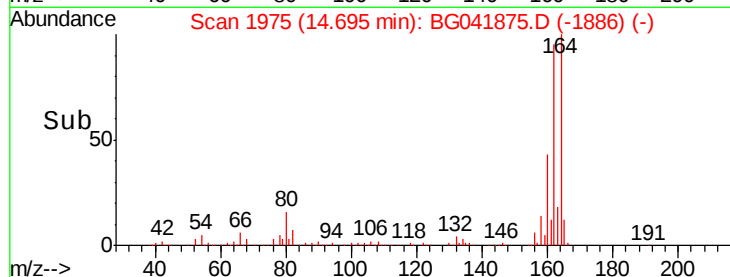
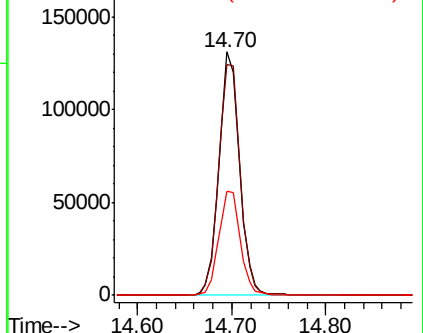
160 42.6 35.4 53.0



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



#42

2,4,6-Tribromophenol

Concen: 139.903 ng

RT: 16.19 min Scan# 2229

Delta R.T. -0.00 min

Lab File: BG041875.D

Acq: 1 Aug 2019 22:37

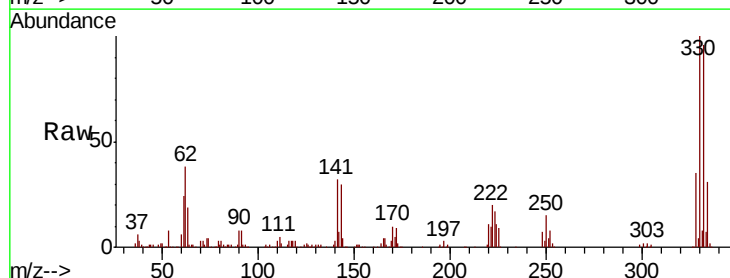
Tgt Ion:330 Resp: 319974

Ion Ratio Lower Upper

330 100

332 97.9 77.4 116.0

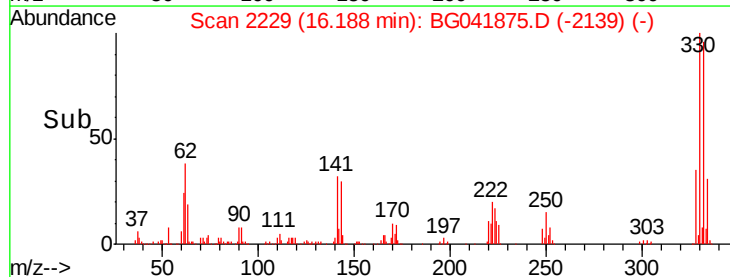
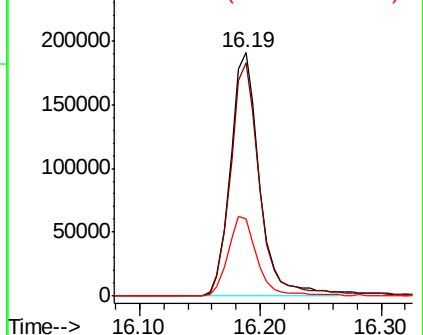
141 33.5 31.9 47.9

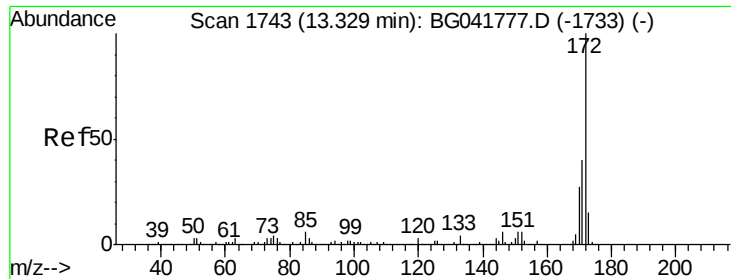


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

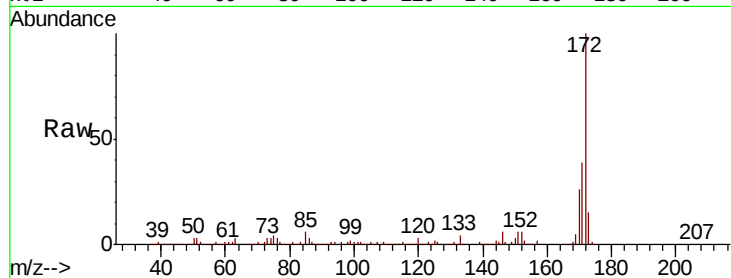




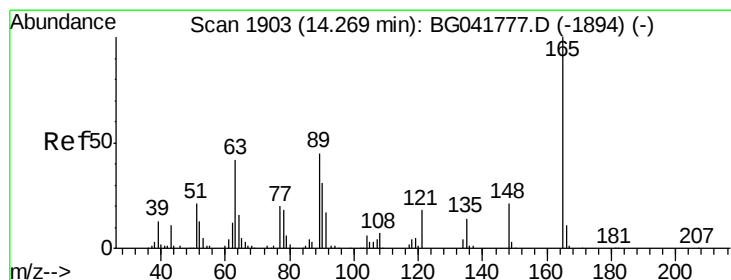
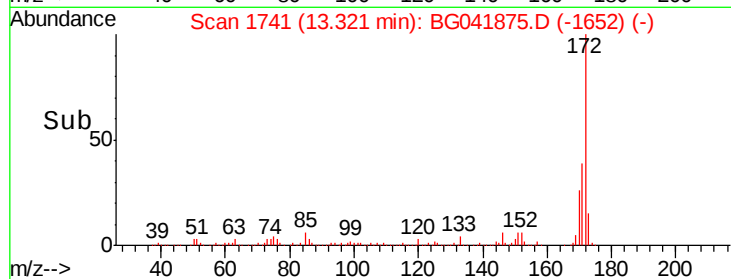
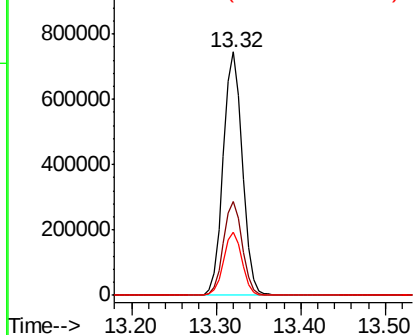
#45  
 2-Fluorobiphenyl  
 Concen: 102.359 ng  
 RT: 13.32 min Scan# 1741  
 Delta R.T. -0.01 min  
 Lab File: BG041875.D  
 Acq: 1 Aug 2019 22:37

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-4

Tgt Ion:172 Resp: 1168581  
 Ion Ratio Lower Upper  
 172 100  
 171 38.7 35.0 52.4  
 170 25.9 23.5 35.3

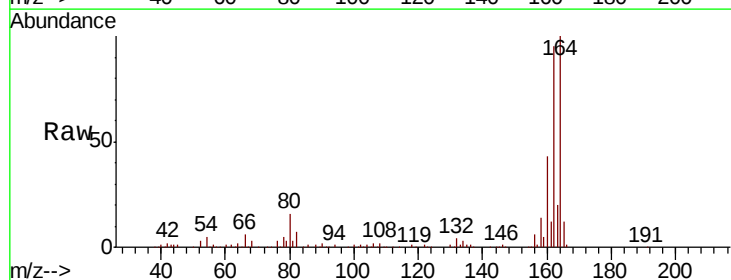


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

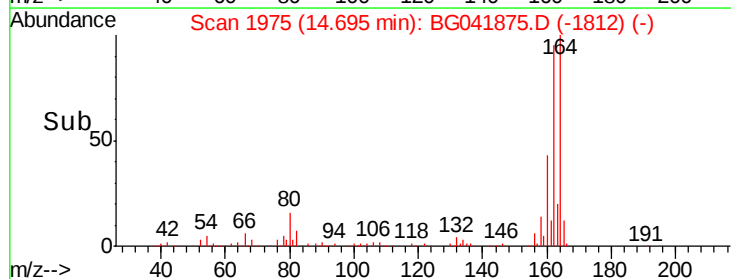
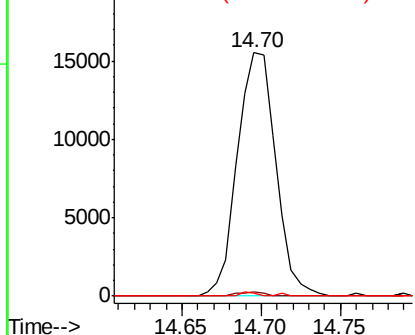


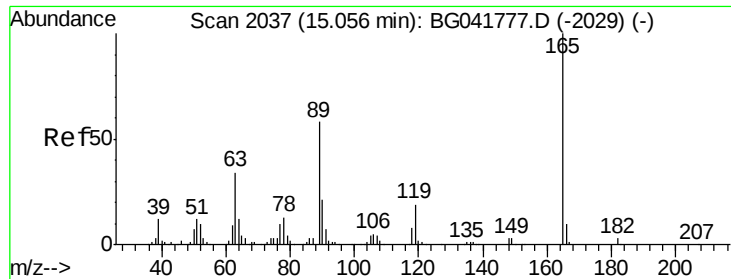
#51  
 2,6-Dinitrotoluene  
 Concen: 9.073 ng  
 RT: 14.70 min Scan# 1975  
 Delta R.T. 0.43 min  
 Lab File: BG041875.D  
 Acq: 1 Aug 2019 22:37

Tgt Ion:165 Resp: 26089  
 Ion Ratio Lower Upper  
 165 100  
 63 1.5 42.4 63.6#  
 89 1.0 42.1 63.1#



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

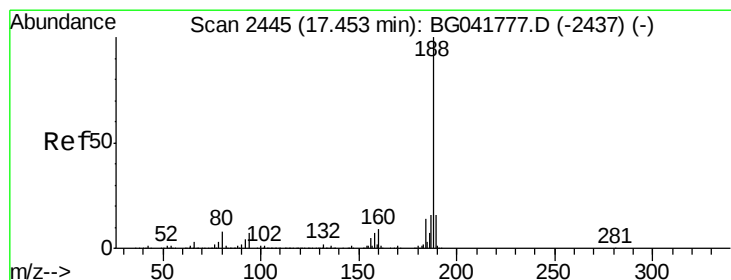
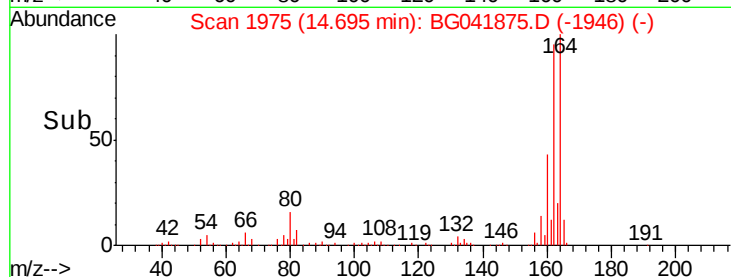
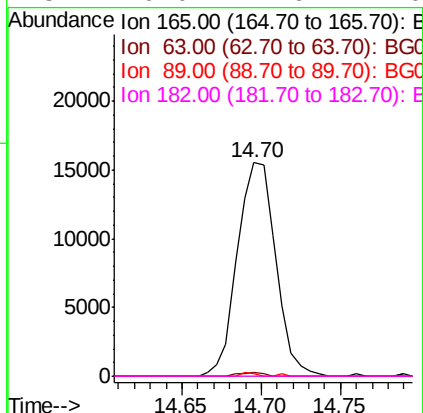
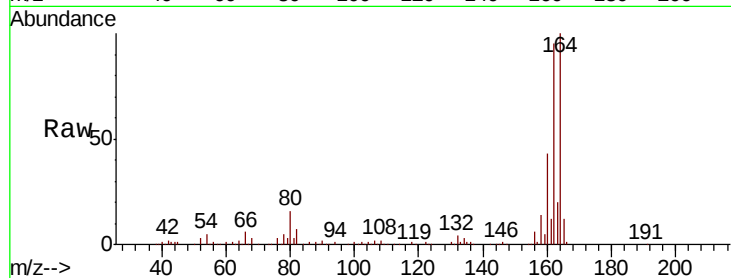




#57  
 2,4-Dinitrotoluene  
 Concen: 6.597 ng  
 RT: 14.70 min Scan# 1975  
 Delta R.T. -0.36 min  
 Lab File: BG041875.D  
 Acq: 1 Aug 2019 22:37

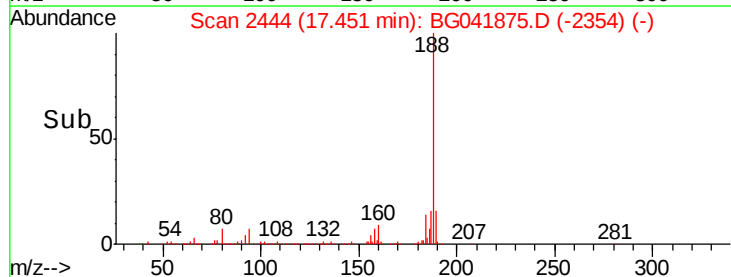
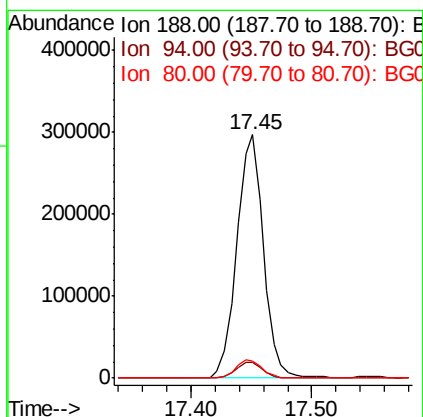
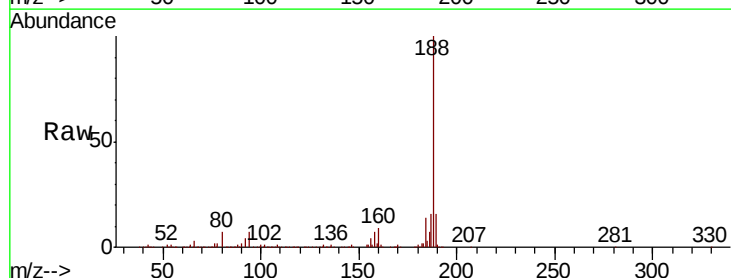
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-4

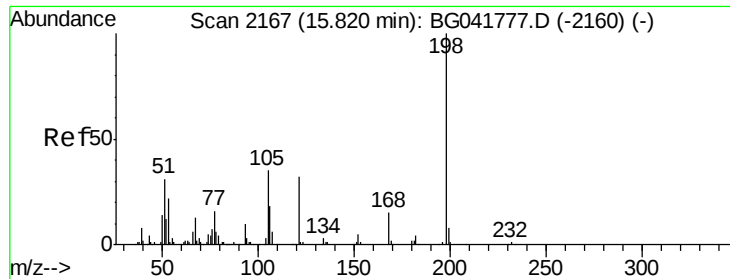
Tgt Ion:165 Resp: 26089  
 Ion Ratio Lower Upper  
 165 100  
 63 1.5 31.7 47.5#  
 89 1.0 50.2 75.4#  
 182 0.0 2.6 4.0#



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.45 min Scan# 2444  
 Delta R.T. -0.00 min  
 Lab File: BG041875.D  
 Acq: 1 Aug 2019 22:37

Tgt Ion:188 Resp: 456377  
 Ion Ratio Lower Upper  
 188 100  
 94 6.5 6.9 10.3#  
 80 7.1 8.0 12.0#





#65

4,6-Dinitro-2-methylphenol

Concen: 7.217 ng

RT: 16.18 min Scan# 2228

Delta R.T. 0.36 min

Lab File: BG041875.D

Acq: 1 Aug 2019 22:37

Instrument :

BNA\_F

ClientSampleId :

TP-4

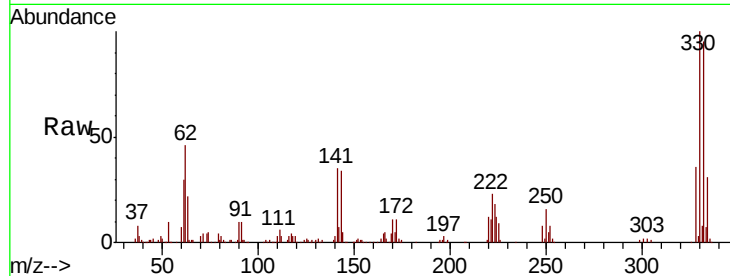
Tgt Ion:198 Resp: 949

Ion Ratio Lower Upper

198 100

51 85.8 22.3 62.3#

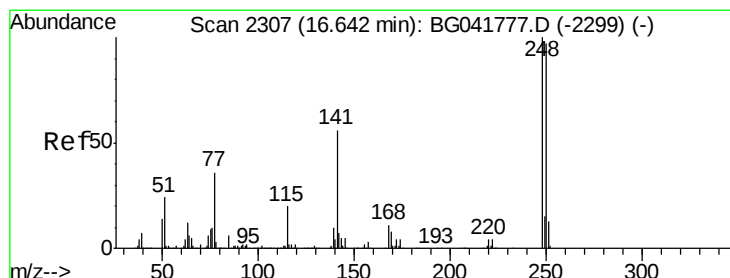
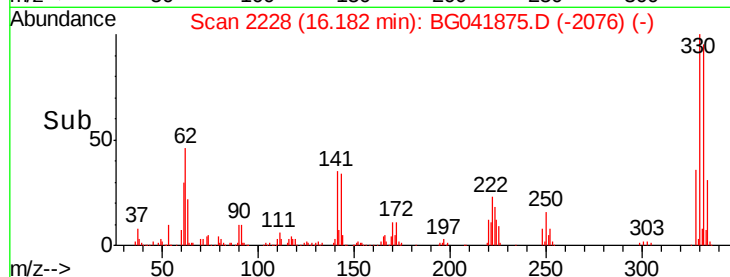
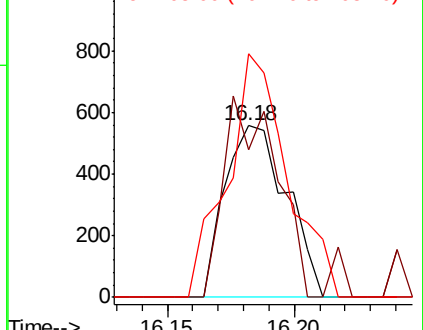
105 141.8 18.0 58.0#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG0

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 4.122 ng

RT: 16.18 min Scan# 2228

Delta R.T. -0.46 min

Lab File: BG041875.D

Acq: 1 Aug 2019 22:37

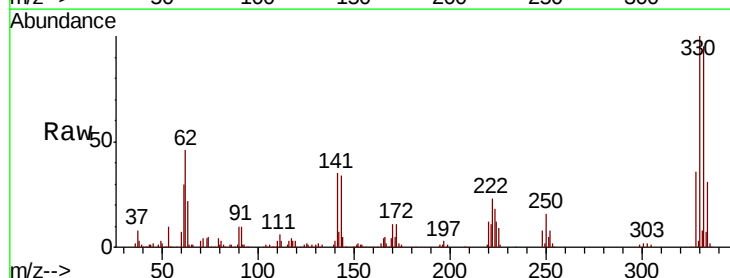
Tgt Ion:248 Resp: 23171

Ion Ratio Lower Upper

248 100

250 200.2 78.1 117.1#

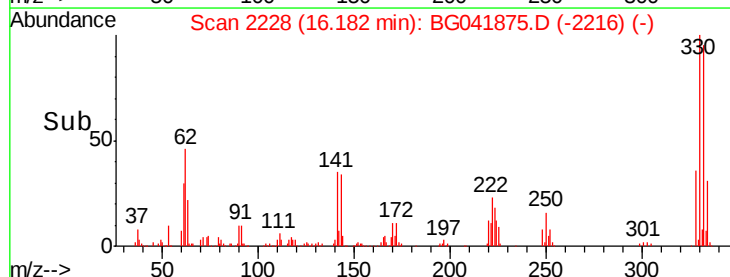
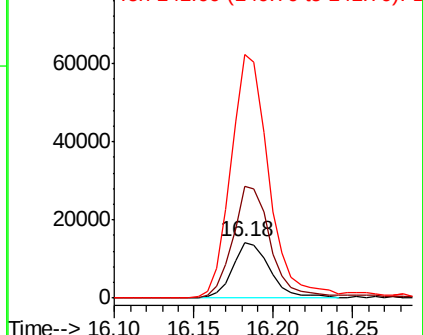
141 438.0 49.6 74.4#

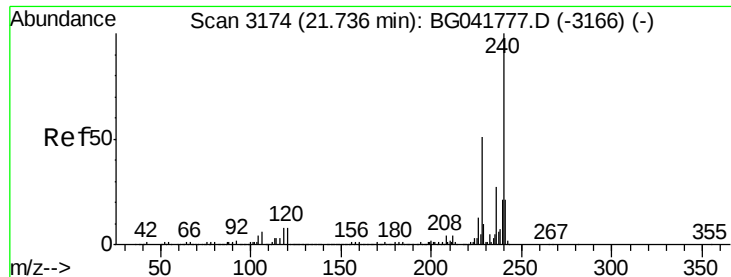


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

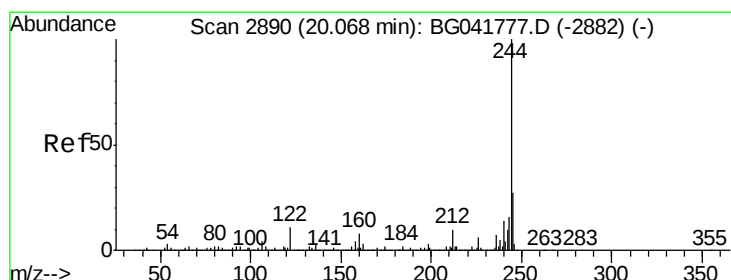
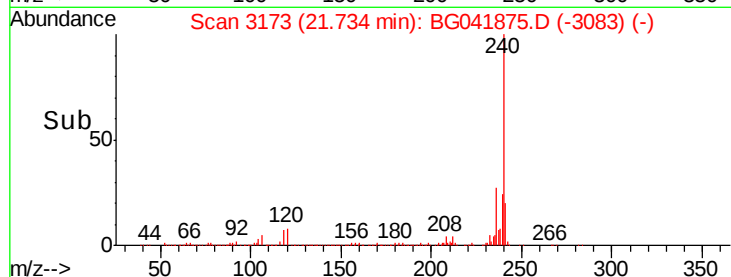
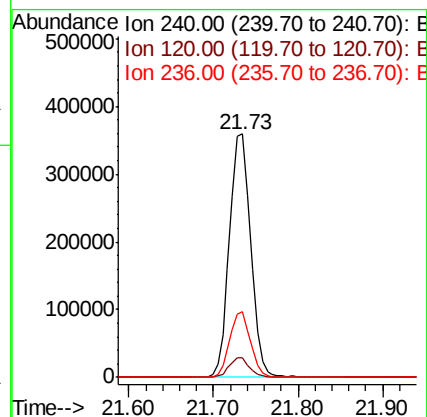
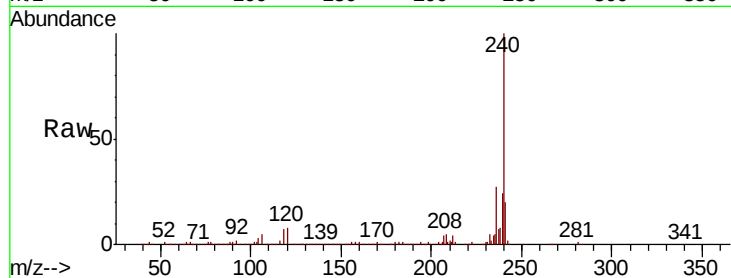




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.73 min Scan# 3173  
Delta R.T. -0.00 min  
Lab File: BG041875.D  
Acq: 1 Aug 2019 22:37

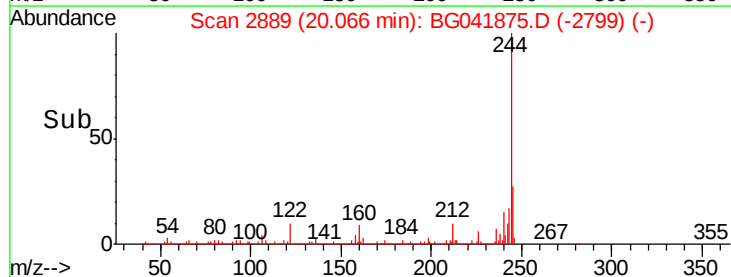
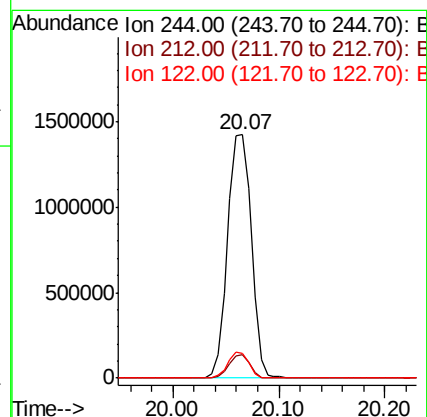
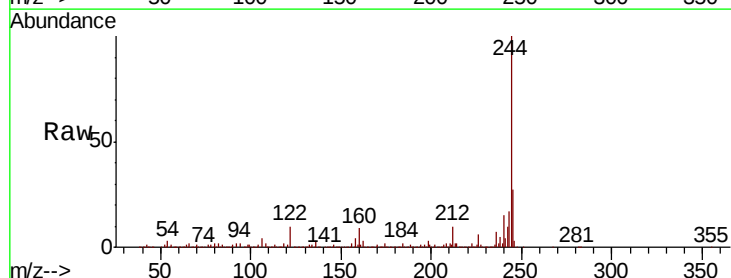
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

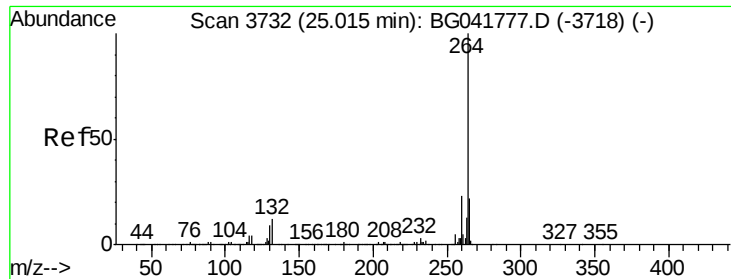
Tgt Ion:240 Resp: 626525  
Ion Ratio Lower Upper  
240 100  
120 7.8 8.0 12.0#  
236 27.0 22.6 33.8



#79  
Terphenyl-d14  
Concen: 81.089 ng  
RT: 20.07 min Scan# 2889  
Delta R.T. -0.00 min  
Lab File: BG041875.D  
Acq: 1 Aug 2019 22:37

Tgt Ion:244 Resp: 2220210  
Ion Ratio Lower Upper  
244 100  
212 9.6 9.7 14.5#  
122 10.4 12.5 18.7#





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.00 min Scan# 3729  
Delta R.T. -0.01 min  
Lab File: BG041875.D  
Acq: 1 Aug 2019 22:37

Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 751065 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.1  | 19.5  | 29.3   |
| 265      | 21.6  | 18.0  | 27.0   |

