

Data File : BG043975.D  
Acq On : 8 Jan 2020 20:01  
Operator : JU  
Sample : PB125951TB  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
PB125951TB

Quant Time: Jan 09 06:14:22 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG123019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 31 13:32:23 2019  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.95  | 152  | 119735   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 10.76 | 136  | 466745   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 14.59 | 164  | 285535   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 17.33 | 188  | 666525   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.58 | 240  | 565650   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 24.70 | 264  | 308420   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.54  | 112  | 979394   | 150.19 | ng    | 0.00     |
| 7) Phenol-d6                | 7.13  | 99   | 1273628  | 139.72 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.11  | 82   | 805223   | 92.29  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 16.07 | 330  | 504259   | 168.76 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.21 | 172  | 1661357  | 105.42 | ng    | -0.01    |
| 79) Terphenyl-d14           | 19.95 | 244  | 2427413  | 112.04 | ng    | -0.01    |

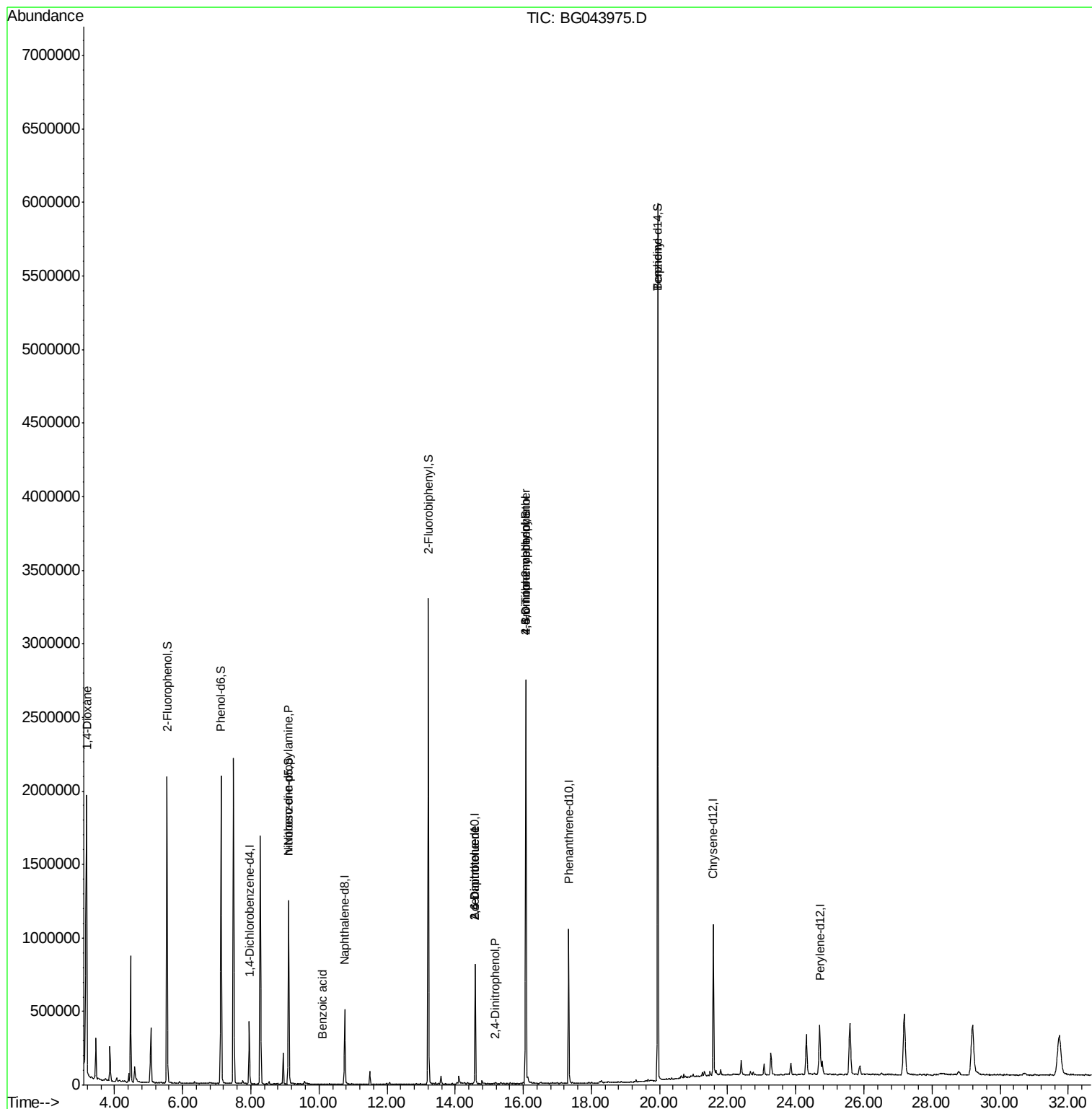
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.18  | 88   | 24258    | 8.532  | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 9.11  | 70   | 105906   | 15.601 | ng    | # 77   |
| 32) Benzoic acid               | 10.12 | 122  | 54       | 6.271  | ng    | # 1    |
| 51) 2,6-Dinitrotoluene         | 14.59 | 165  | 37754    | 8.239  | ng    | # 26   |
| 54) 2,4-Dinitrophenol          | 15.18 | 184  | 65       | 5.509  | ng    | # 20   |
| 57) 2,4-Dinitrotoluene         | 14.59 | 165  | 37754    | 6.055  | ng    | # 27   |
| 65) 4,6-Dinitro-2-methylphenol | 16.07 | 198  | 1811     | 4.869  | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 16.07 | 248  | 36926    | 4.926  | ng    | # 1    |
| 77) Benzidine                  | 19.95 | 184  | 49139    | 3.456  | ng    | # 93   |

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

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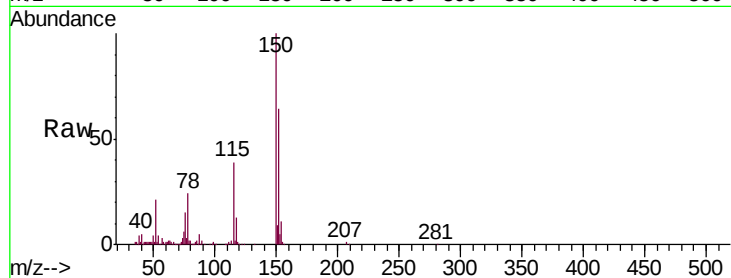


#1

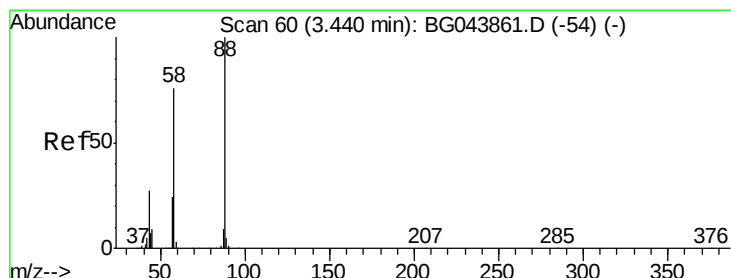
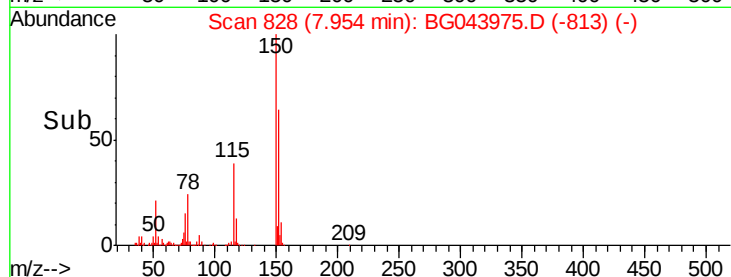
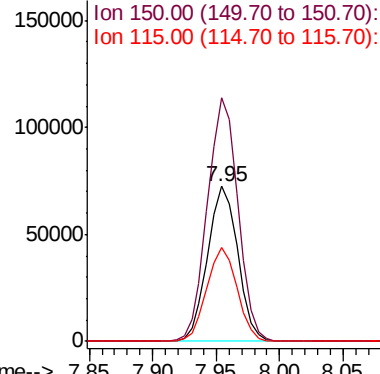
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.95 min Scan# 828  
Delta R.T. -0.01 min  
Lab File: BG043975.D  
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Tgt Ion:152 Resp: 119735  
Ion Ratio Lower Upper  
152 100  
150 156.9 127.0 190.4  
115 60.5 47.8 71.8



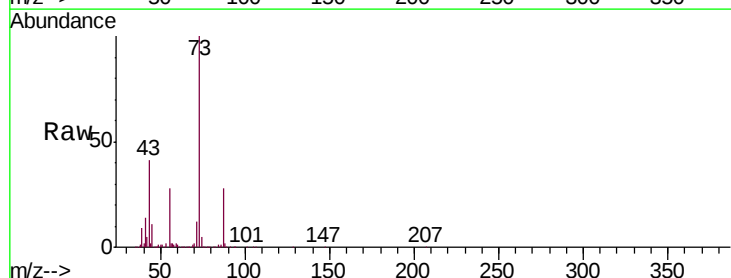
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



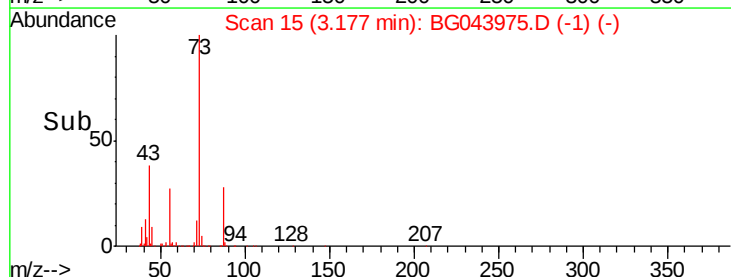
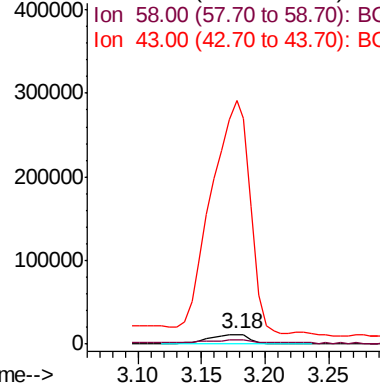
#2

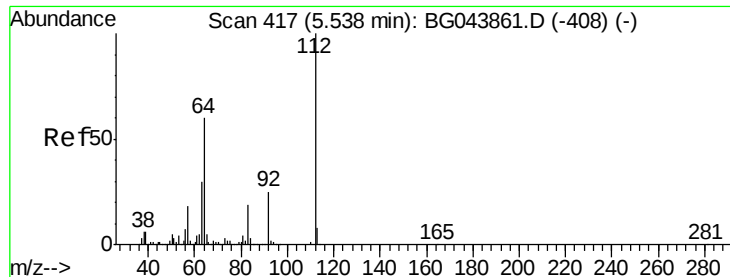
1,4-Dioxane  
Concen: 8.532 ng  
RT: 3.18 min Scan# 15  
Delta R.T. -0.26 min  
Lab File: BG043975.D  
Acq: 8 Jan 2020 20:01

Tgt Ion: 88 Resp: 24258  
Ion Ratio Lower Upper  
88 100  
58 38.4 59.8 89.8#  
43 2435.2 22.9 34.3#



Abundance Ion 88.00 (87.70 to 88.70): BGC  
Ion 58.00 (57.70 to 58.70): BGC  
Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 150.189 ng

RT: 5.54 min Scan# 417

Delta R.T. 0.00 min

Lab File: BG043975.D

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Instrument :

BNA\_G

ClientSampleId :

PB125951TB

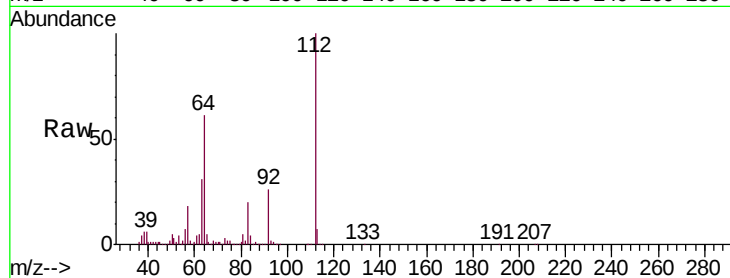
Tgt Ion: 112 Resp: 979394

Ion Ratio Lower Upper

112 100

64 60.5 47.8 71.6

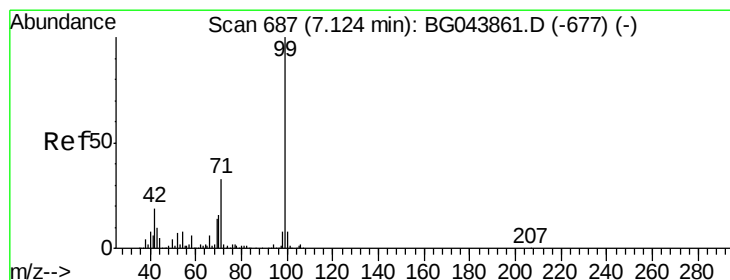
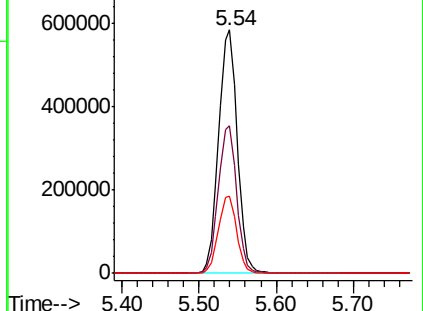
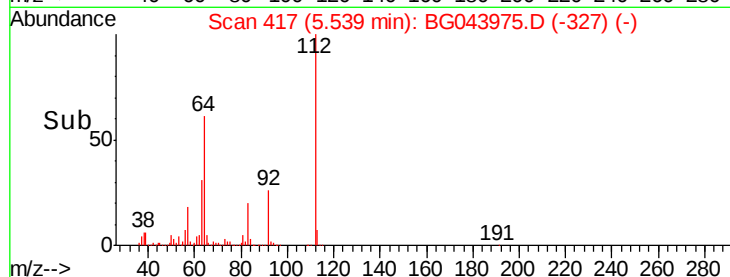
63 31.5 24.3 36.5



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: 139.724 ng

RT: 7.13 min Scan# 687

Delta R.T. 0.00 min

Lab File: BG043975.D

Acq: 8 Jan 2020 20:01

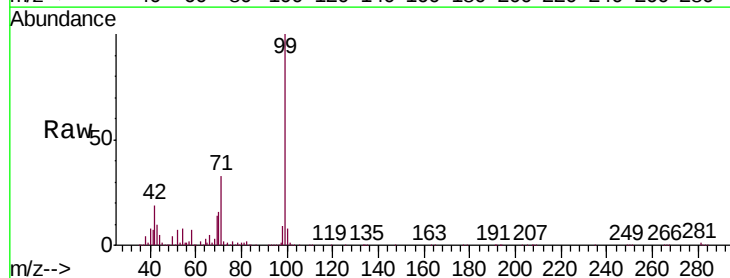
Tgt Ion: 99 Resp: 1273628

Ion Ratio Lower Upper

99 100

42 18.9 14.9 22.3

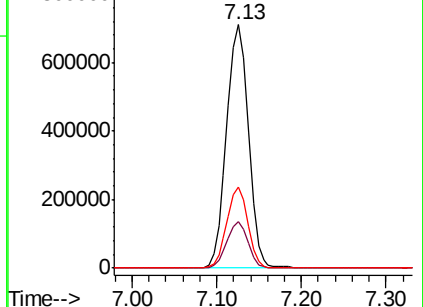
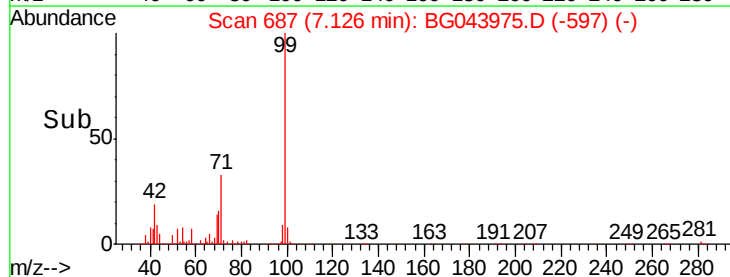
71 33.2 26.4 39.6

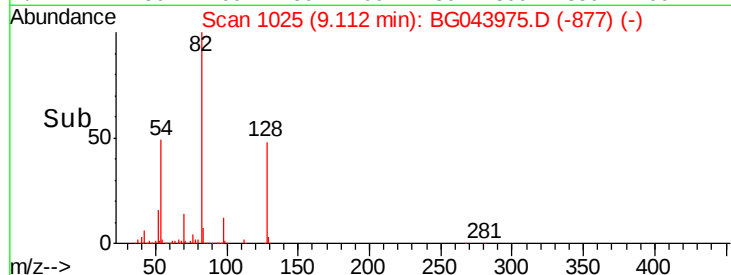
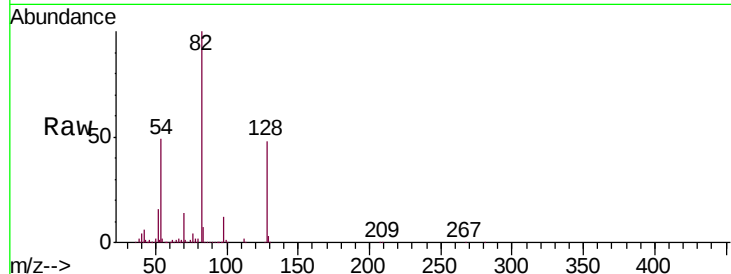


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC

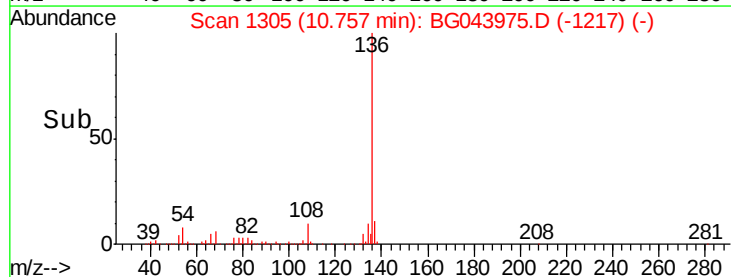
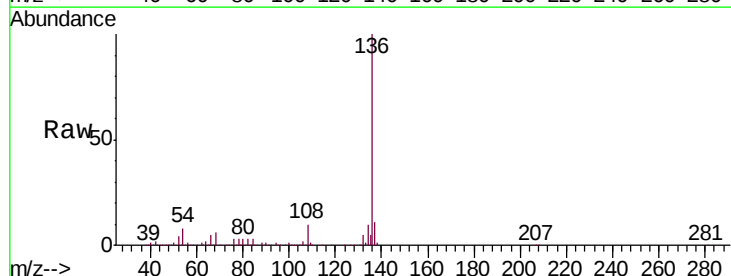
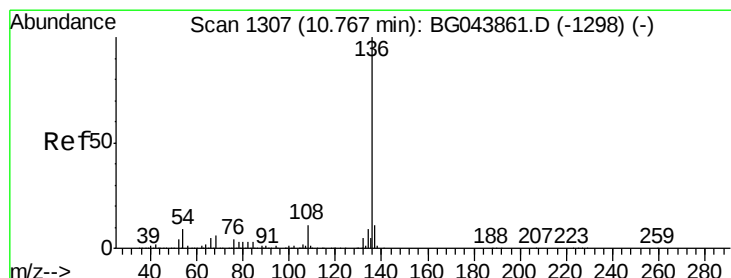
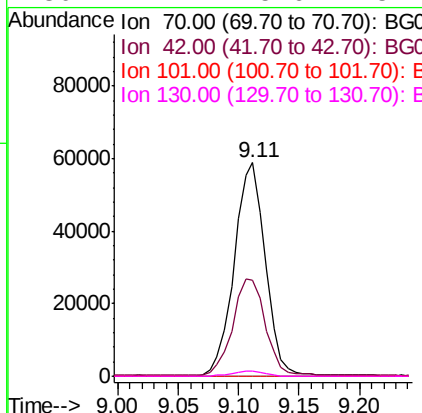




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.601 ng  
RT: 9.11 min Scan# 1025  
Delta R.T. 0.34 min  
Lab File: BG043975.D  
Acq: 8 Jan 2020 20:01

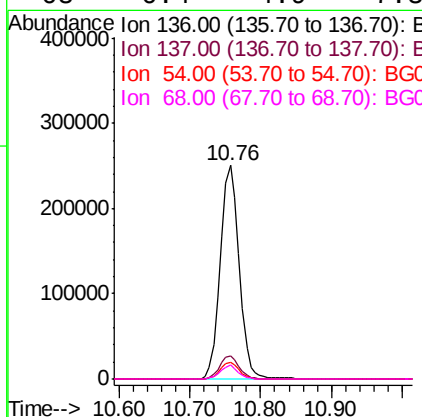
Instrument :  
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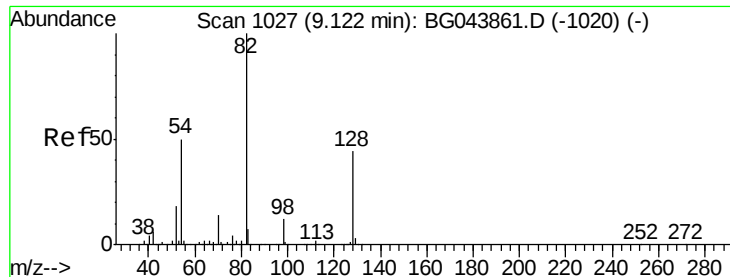
Tgt Ion: 70 Resp: 105906  
Ion Ratio Lower Upper  
70 100  
42 45.2 47.0 70.4#  
101 0.0 7.2 10.8#  
130 2.4 15.6 23.4#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.76 min Scan# 1305  
Delta R.T. -0.01 min  
Lab File: BG043975.D  
Acq: 8 Jan 2020 20:01

Tgt Ion: 136 Resp: 466745  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.8 13.2  
54 7.5 7.0 10.4  
68 6.4 4.9 7.3

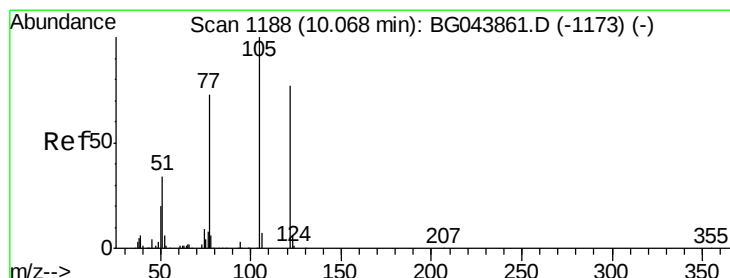
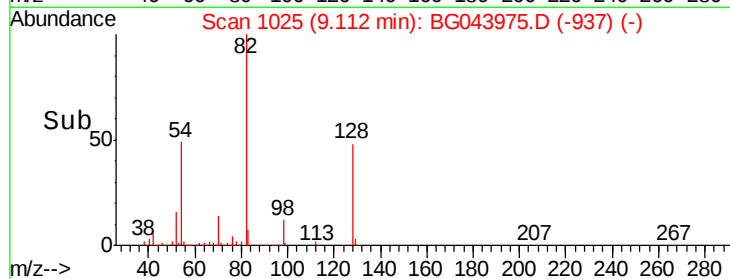
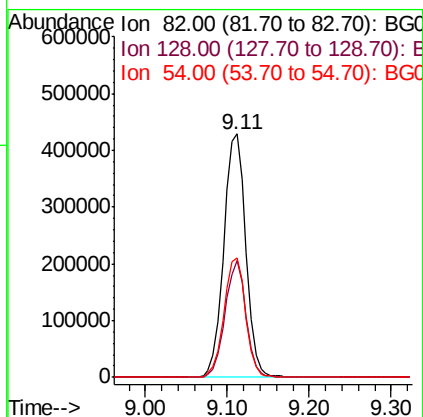
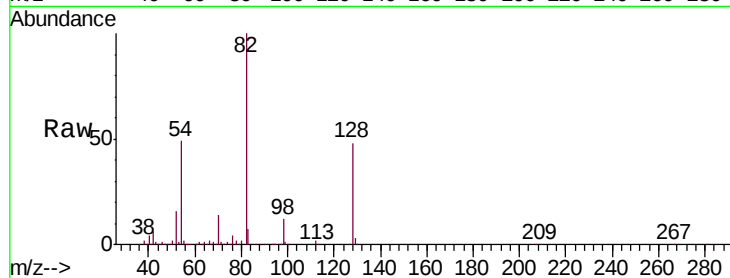




#23  
Nitrobenzene-d5  
Concen: 92.290 ng  
RT: 9.11 min Scan# 1025  
Delta R.T. -0.01 min  
Lab File: BG043975.D  
Acq: 8 Jan 2020 20:01

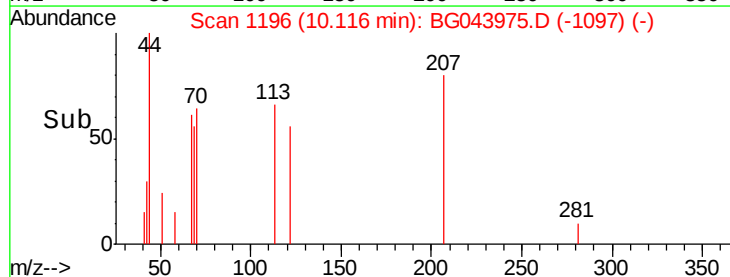
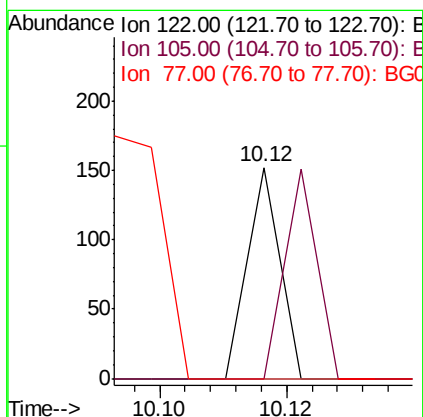
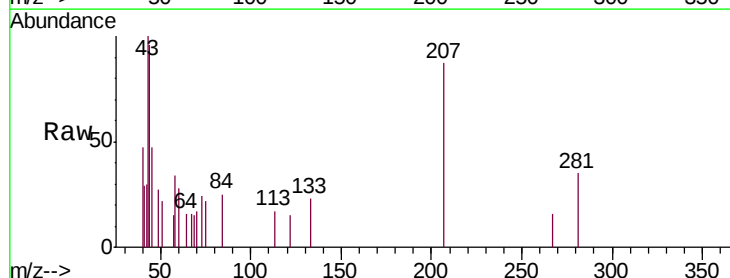
Instrument :  
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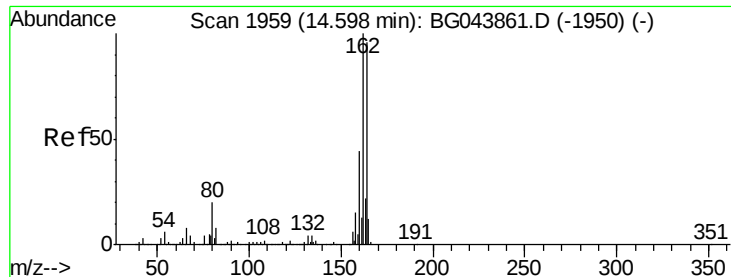
Tgt Ion: 82 Resp: 805223  
Ion Ratio Lower Upper  
82 100  
128 47.8 35.1 52.7  
54 49.1 40.1 60.1



#32  
Benzoic acid  
Concen: 6.271 ng  
RT: 10.12 min Scan# 1196  
Delta R.T. 0.05 min  
Lab File: BG043975.D  
Acq: 8 Jan 2020 20:01

Tgt Ion: 122 Resp: 54  
Ion Ratio Lower Upper  
122 100  
105 0.0 106.4 146.4#  
77 0.0 74.6 114.6#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.59 min Scan# 1957

Delta R.T. -0.01 min

Lab File: BG043975.D

Acq: 8 Jan 2020 20:01

Instrument :

BNA\_G

ClientSampleId :

PB125951TB

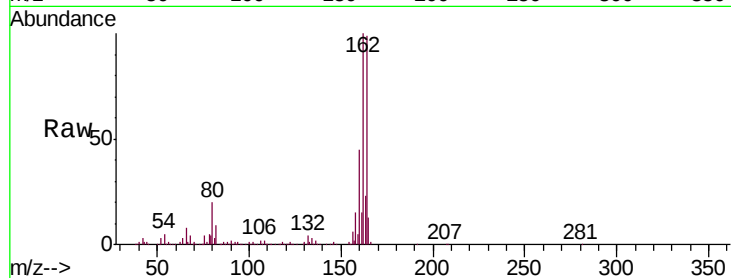
Tgt Ion:164 Resp: 285535

Ion Ratio Lower Upper

164 100

162 100.9 83.0 124.4

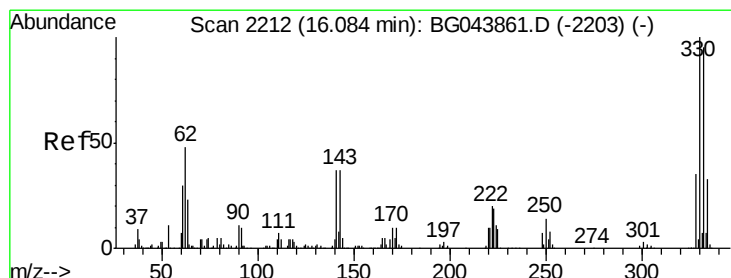
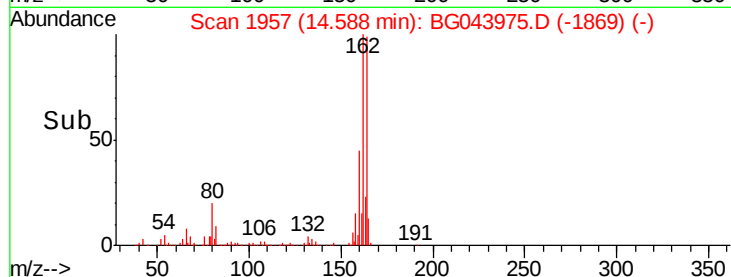
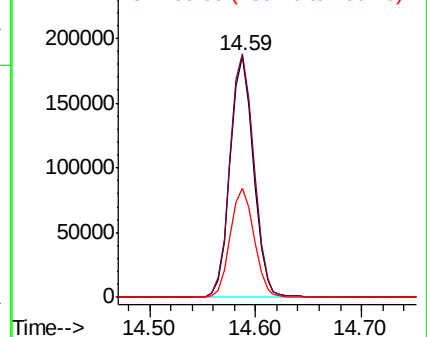
160 45.2 36.1 54.1



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: 168.758 ng

RT: 16.07 min Scan# 2210

Delta R.T. -0.01 min

Lab File: BG043975.D

Acq: 8 Jan 2020 20:01

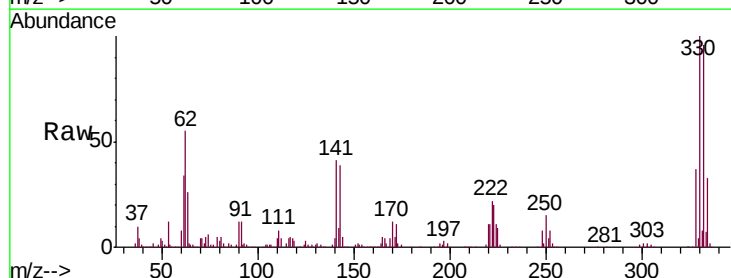
Tgt Ion:330 Resp: 504259

Ion Ratio Lower Upper

330 100

332 96.3 77.2 115.8

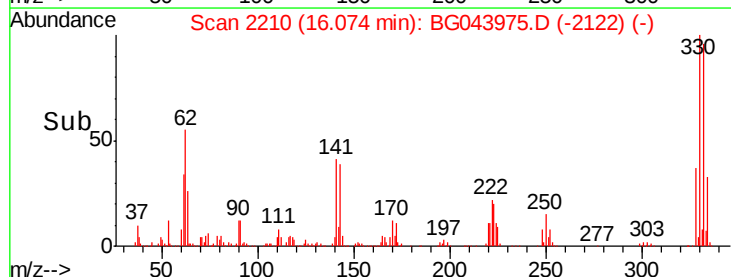
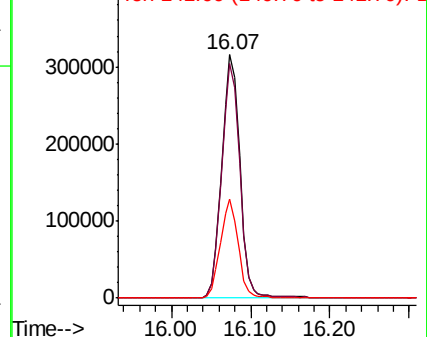
141 39.7 33.1 49.7

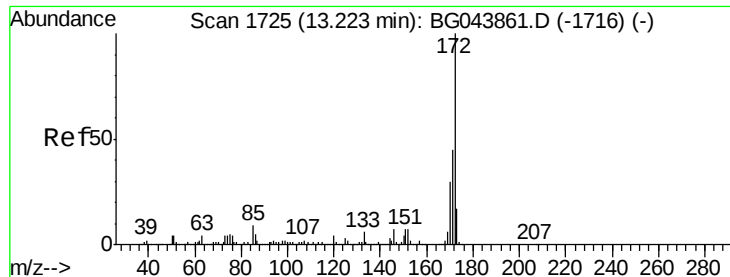


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

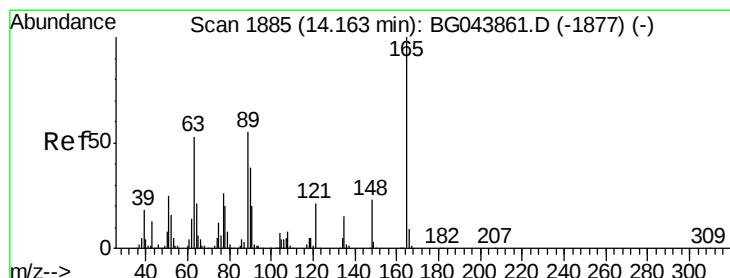
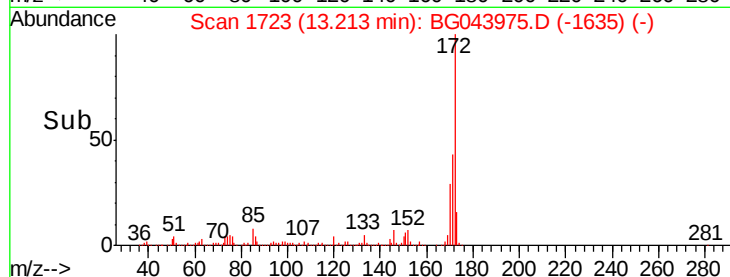
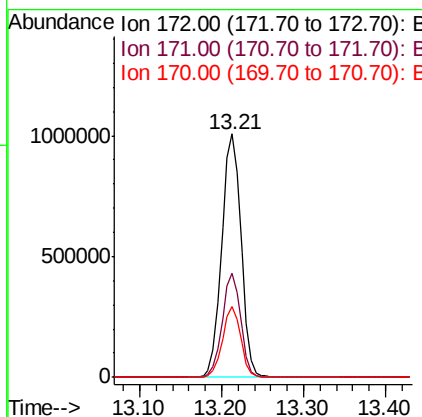
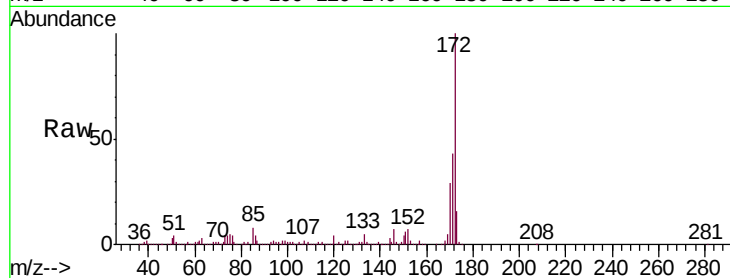




#45  
 2-Fluorobiphenyl  
 Concen: 105.416 ng  
 RT: 13.21 min Scan# 1723  
 Delta R.T. -0.01 min  
 Lab File: BG043975.D  
 Acq: 8 Jan 2020 20:01

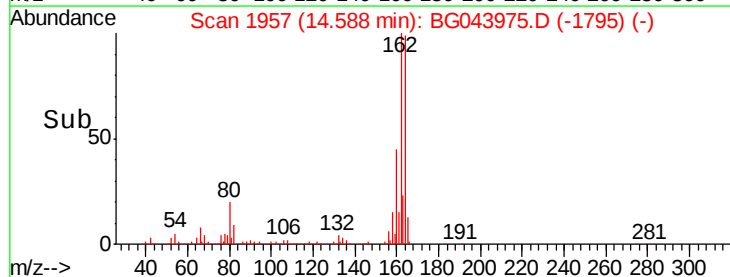
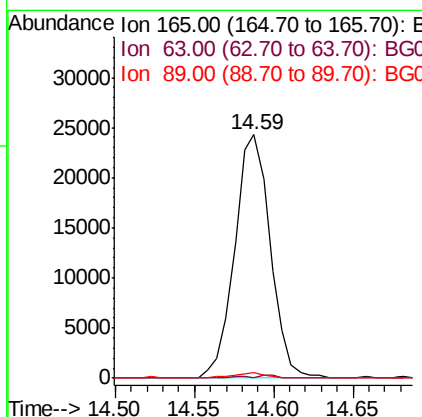
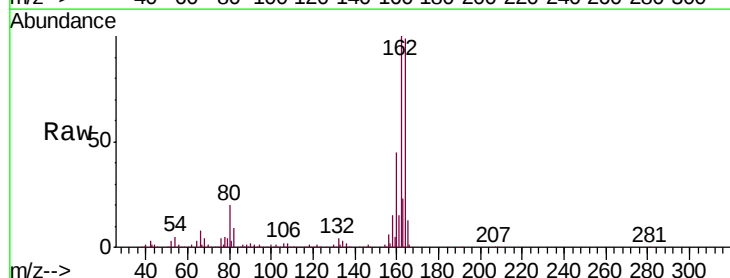
Instrument :  
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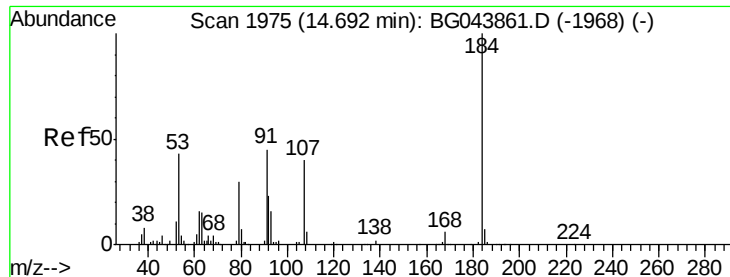
Tgt Ion:172 Resp: 1661357  
 Ion Ratio Lower Upper  
 172 100  
 171 42.7 35.8 53.8  
 170 29.1 24.2 36.4



#51  
 2,6-Dinitrotoluene  
 Concen: 8.239 ng  
 RT: 14.59 min Scan# 1957  
 Delta R.T. 0.42 min  
 Lab File: BG043975.D  
 Acq: 8 Jan 2020 20:01

Tgt Ion:165 Resp: 37754  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 43.1 64.7#  
 89 2.0 43.8 65.6#

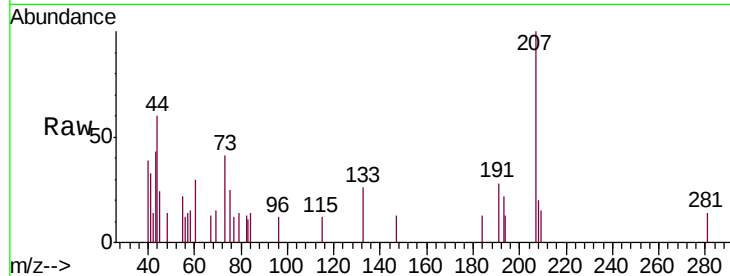




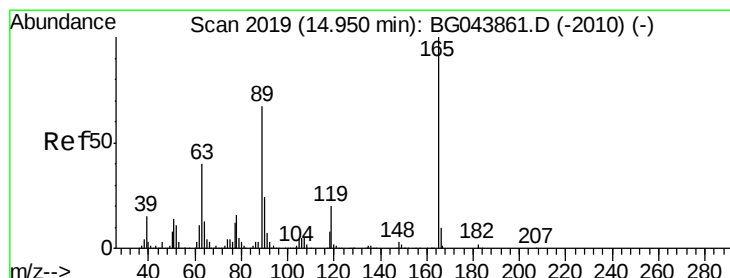
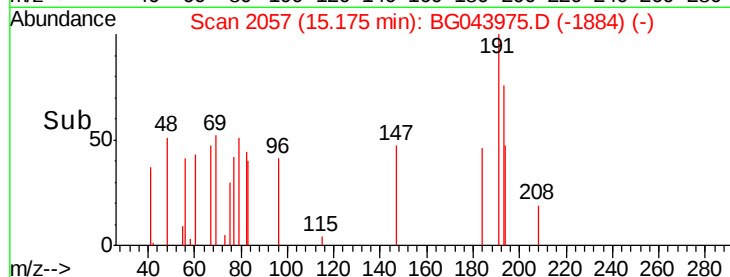
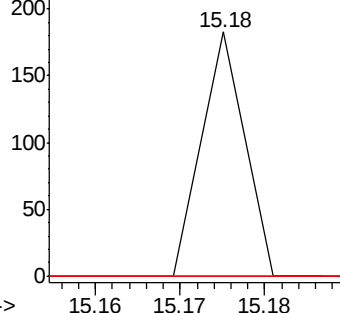
#54  
2,4-Dinitrophenol  
Concen: 5.509 ng  
RT: 15.18 min Scan# 2057  
Delta R.T. 0.48 min  
Lab File: BG043975.D  
Acq: 8 Jan 2020 20:01

Instrument :  
BNA\_G  
ClientSampleId :  
PB125951TB

Tgt Ion:184 Resp: 65  
Ion Ratio Lower Upper  
184 100  
63 0.0 46.6 70.0#  
154 0.0 50.2 75.4#

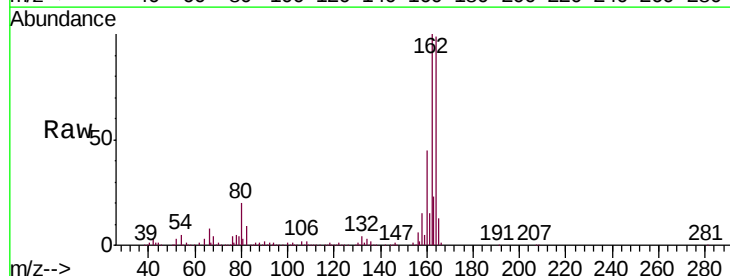


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 154.00 (153.70 to 154.70): E

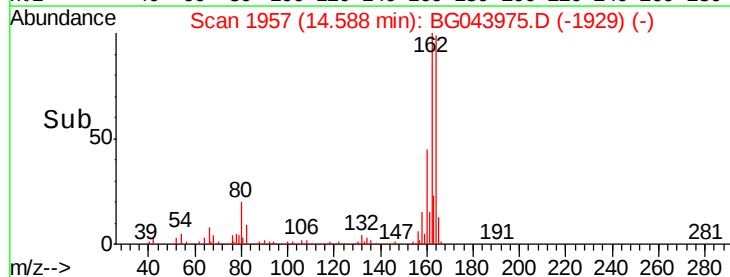
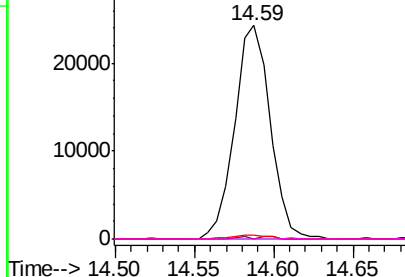


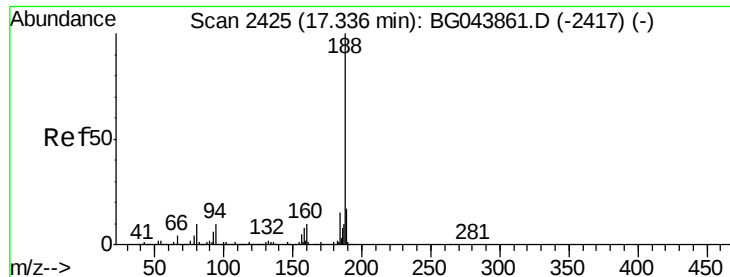
#57  
2,4-Dinitrotoluene  
Concen: 6.055 ng  
RT: 14.59 min Scan# 1957  
Delta R.T. -0.36 min  
Lab File: BG043975.D  
Acq: 8 Jan 2020 20:01

Tgt Ion:165 Resp: 37754  
Ion Ratio Lower Upper  
165 100  
63 0.0 31.9 47.9#  
89 2.0 53.8 80.6#  
182 0.0 2.0 3.0#



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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.33 min Scan# 2424

Delta R.T. -0.00 min

Lab File: BG043975.D

Acq: 8 Jan 2020 20:01

Instrument :

BNA\_G

ClientSampleId :

PB125951TB

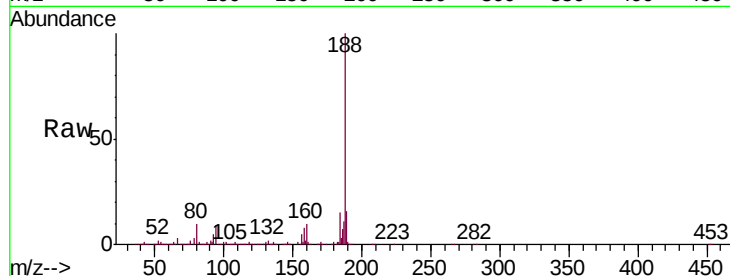
Tgt Ion:188 Resp: 666525

Ion Ratio Lower Upper

188 100

94 9.4 7.9 11.9

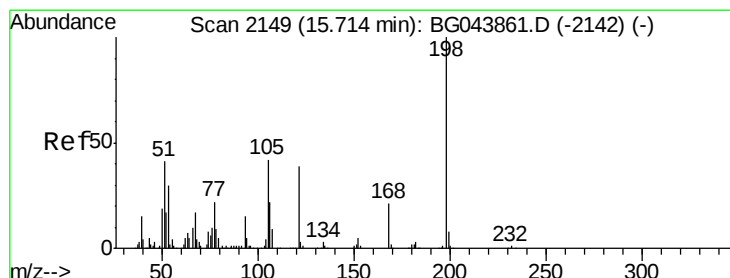
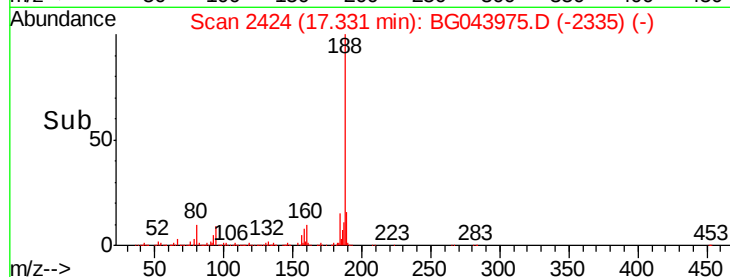
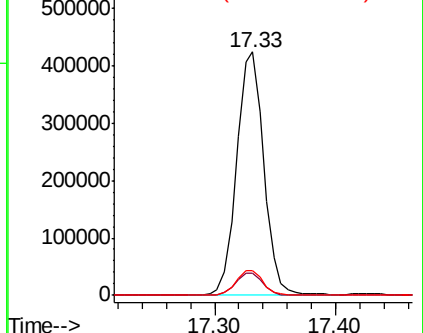
80 10.3 8.2 12.4



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



#65

4,6-Dinitro-2-methylphenol

Concen: 4.869 ng

RT: 16.07 min Scan# 2210

Delta R.T. 0.36 min

Lab File: BG043975.D

Acq: 8 Jan 2020 20:01

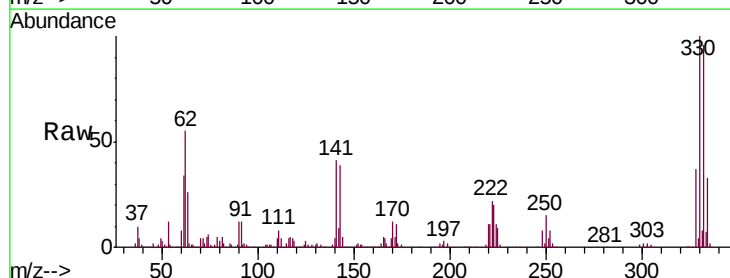
Tgt Ion:198 Resp: 1811

Ion Ratio Lower Upper

198 100

51 158.4 22.5 62.5#

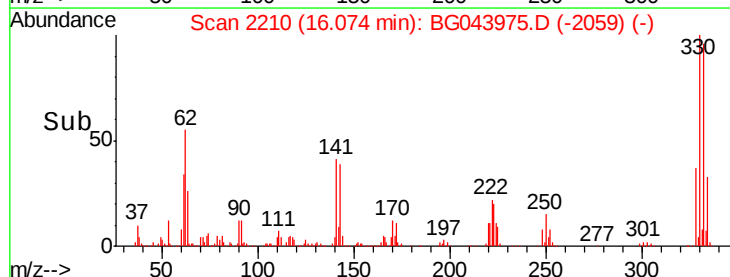
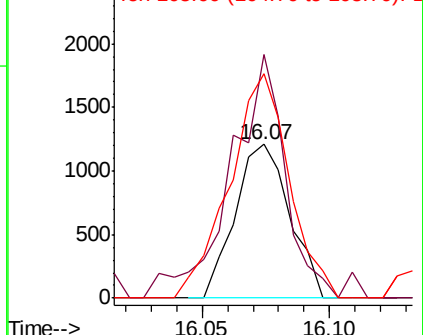
105 145.7 22.3 62.3#

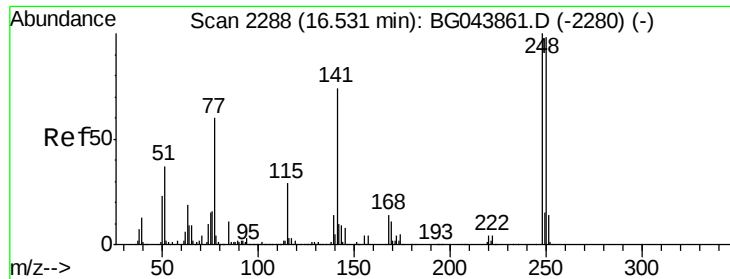


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

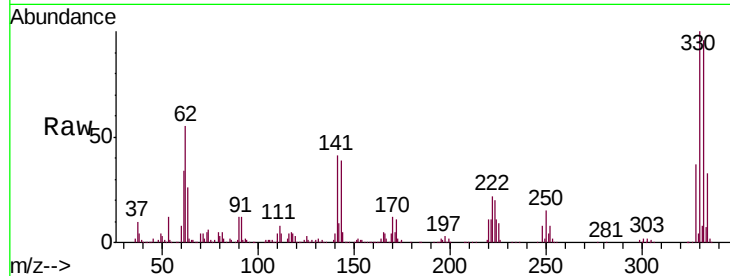




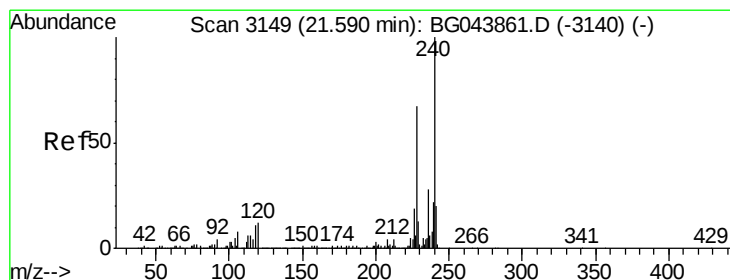
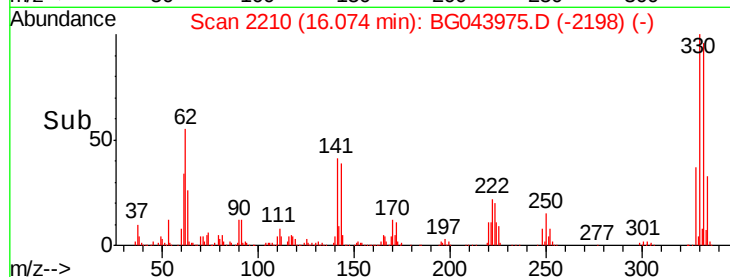
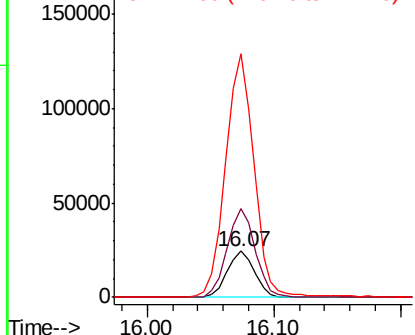
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.926 ng  
 RT: 16.07 min Scan# 2210  
 Delta R.T. -0.46 min  
 Lab File: BG043975.D  
 Acq: 8 Jan 2020 20:01

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB125951TB

Tgt Ion:248 Resp: 36926  
 Ion Ratio Lower Upper  
 248 100  
 250 190.5 78.2 117.2#  
 141 524.8 59.3 88.9#

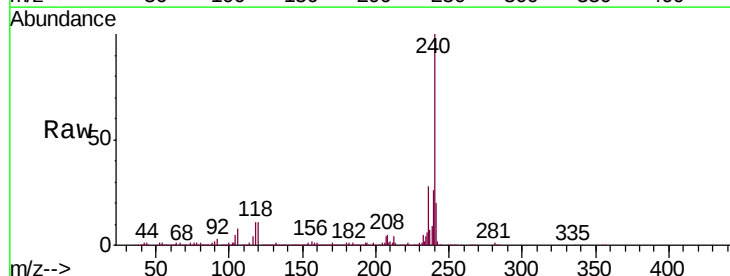


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

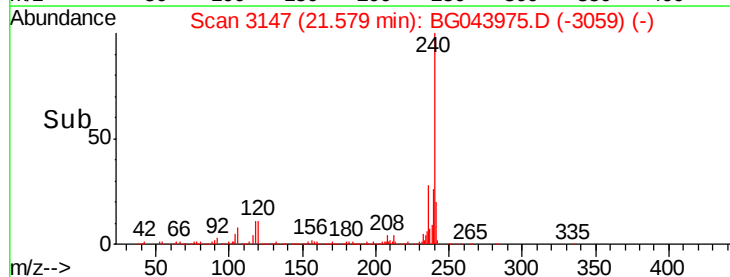
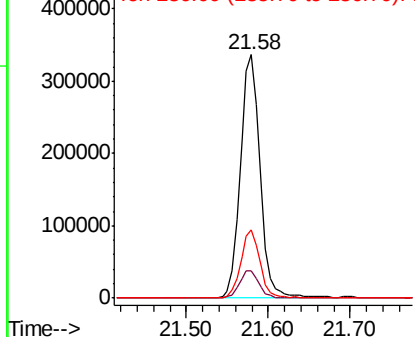


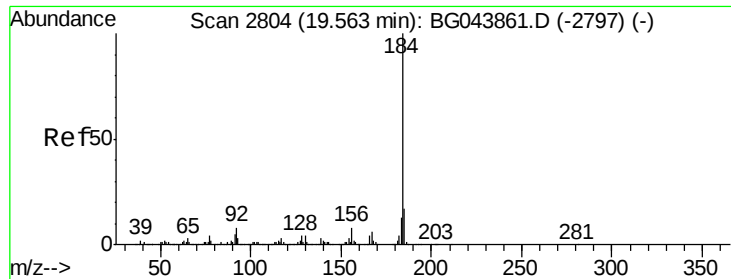
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.58 min Scan# 3147  
 Delta R.T. -0.01 min  
 Lab File: BG043975.D  
 Acq: 8 Jan 2020 20:01

Tgt Ion:240 Resp: 565650  
 Ion Ratio Lower Upper  
 240 100  
 120 11.1 9.6 14.4  
 236 28.0 22.2 33.2



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





#77

Benzidine

Concen: 3.456 ng

RT: 19.95 min Scan# 2869

Delta R.T. 0.38 min

Lab File: BG043975.D

Acq: 8 Jan 2020 20:01

Instrument :

BNA\_G

ClientSampleId :

PB125951TB

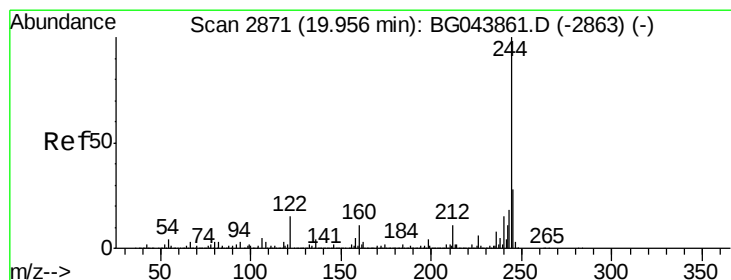
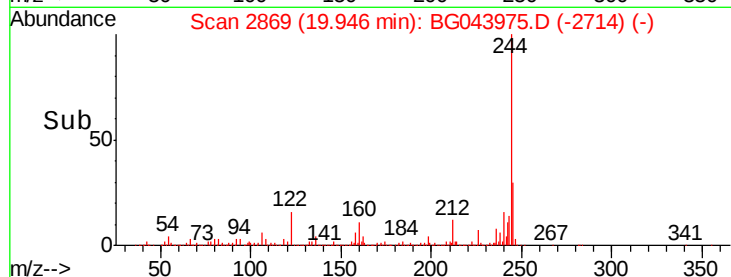
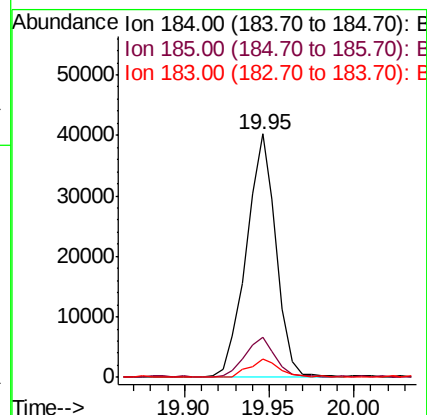
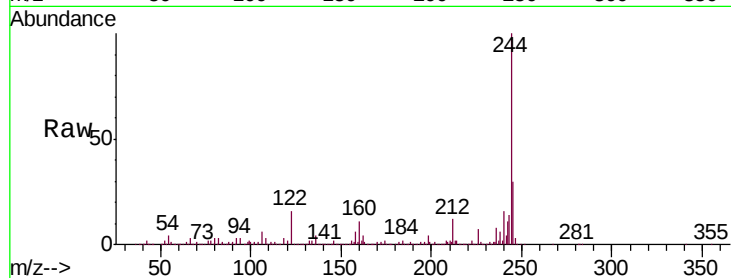
Tgt Ion:184 Resp: 49139

Ion Ratio Lower Upper

184 100

185 16.7 13.4 20.0

183 7.3 10.6 15.8#



#79

Terphenyl-d14

Concen: 112.041 ng

RT: 19.95 min Scan# 2869

Delta R.T. -0.01 min

Lab File: BG043975.D

Acq: 8 Jan 2020 20:01

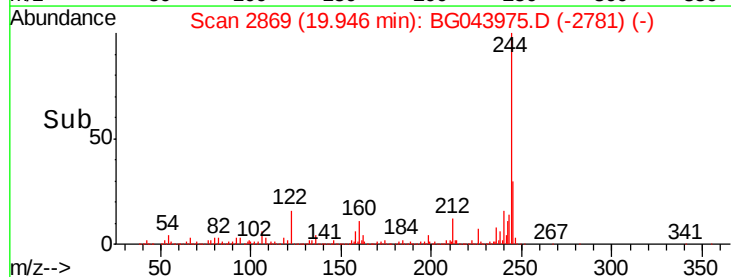
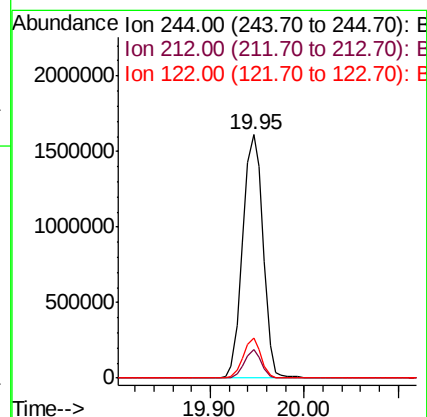
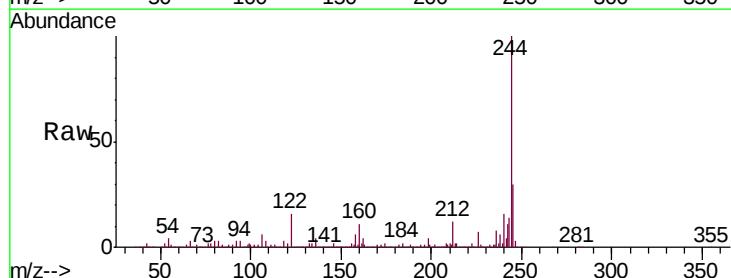
Tgt Ion:244 Resp: 2427413

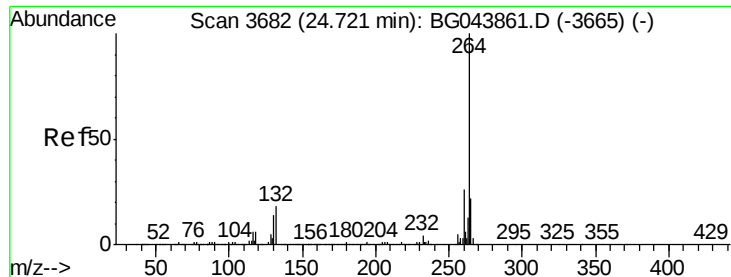
Ion Ratio Lower Upper

244 100

212 11.9 8.6 13.0

122 16.3 11.9 17.9

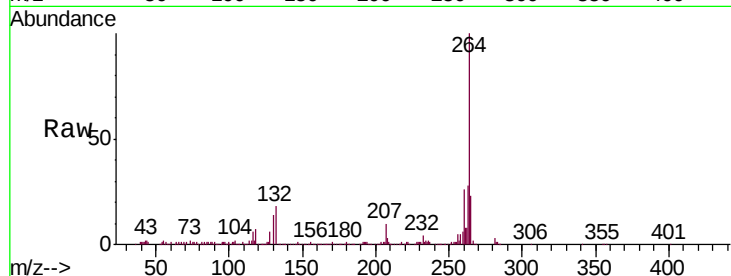




#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.70 min Scan# 3678  
Delta R.T. -0.02 min  
Lab File: BG043975.D  
Acq: 8 Jan 2020 20:01

Instrument :  
BNA\_G  
ClientSampleId :  
PB125951TB

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 308420 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 26.3  | 20.4  | 30.6   |
| 265      | 22.6  | 17.4  | 26.2   |



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

