

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG063020\  
 Data File : BG045889.D  
 Acq On : 30 Jun 2020 18:06  
 Operator : CG/JU  
 Sample : L3153-10  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP2-A

Quant Time: Jul 01 00:29:55 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG061520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 30 16:34:40 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.89  | 152  | 56565    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.70 | 136  | 217358   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.55 | 164  | 143384   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.30 | 188  | 317069   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.56 | 240  | 311259   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 24.67 | 264  | 317364   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.50  | 112 | 427659  | 127.71 | ng | 0.00 |
| 7) Phenol-d6             | 7.12  | 99  | 625698  | 122.84 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.06  | 82  | 430650  | 90.51  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 16.05 | 330 | 279770  | 129.24 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 13.17 | 172 | 922455  | 94.54  | ng | 0.00 |
| 79) Terphenyl-d14        | 19.92 | 244 | 1433004 | 93.30  | ng | 0.00 |

## Target Compounds

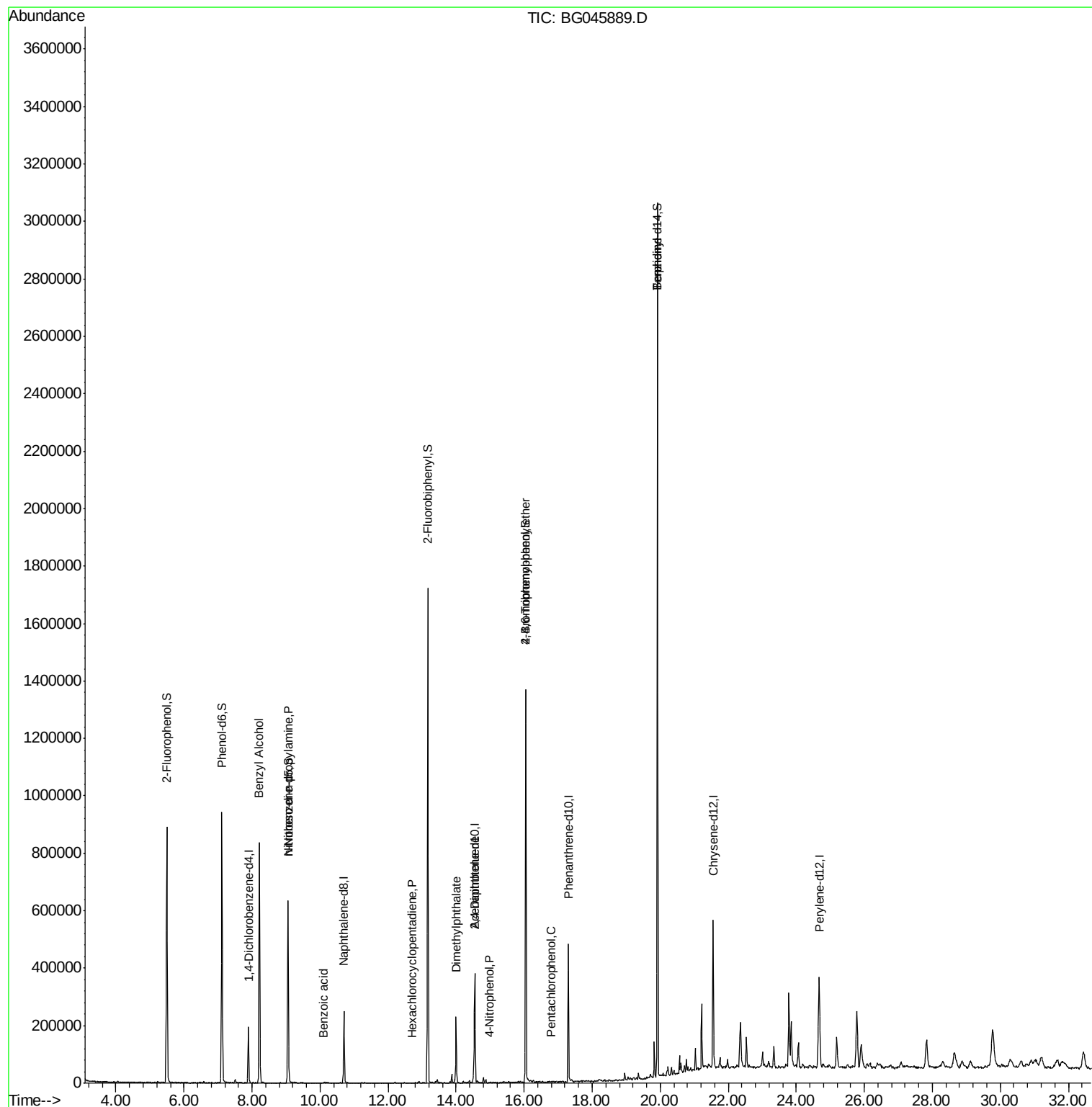
|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 15) Benzyl Alcohol             | 8.22  | 79  | 8020   | 2.035  | ng | # 60   |
| 19) n-Nitroso-di-n-propylamine | 9.06  | 70  | 59341  | 17.721 | ng | # 80   |
| 32) Benzoic acid               | 10.10 | 122 | 59     | 9.001  | ng | # 30   |
| 41) Hexachlorocyclopentadiene  | 12.71 | 237 | 71     | 8.443  | ng | # 28   |
| 50) Dimethylphthalate          | 14.00 | 163 | 156360 | 13.920 | ng | 97     |
| 56) 4-Nitrophenol              | 14.98 | 139 | 64     | 4.007  | ng | # 1    |
| 57) 2,4-Dinitrotoluene         | 14.55 | 165 | 19046  | 5.269  | ng | # 22   |
| 67) 4-Bromophenyl-phenylether  | 16.05 | 248 | 18260  | 4.432  | ng | # 1    |
| 70) Pentachlorophenol          | 16.79 | 266 | 55     | 7.656  | ng | # 19   |
| 77) Benzidine                  | 19.92 | 184 | 25844  | 3.194  | ng | # 85   |

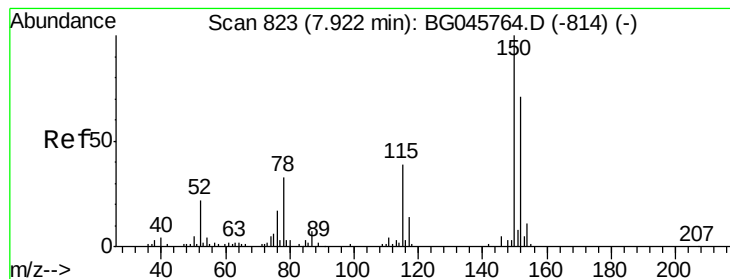
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG063020\  
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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SP2-A

Quant Time: Jul 01 00:29:55 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG061520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 30 16:34:40 2020  
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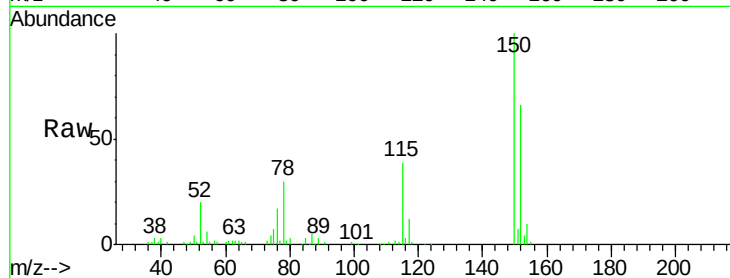


#1

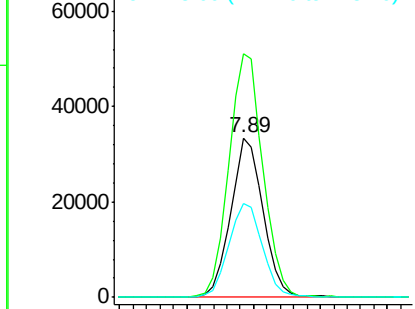
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.89 min Scan# 818  
Delta R.T. -0.00 min  
Lab File: BG045889.D  
Acq: 30 Jun 2020 18:06

Instrument :  
BNA\_G  
ClientSampleId :  
SP2-A

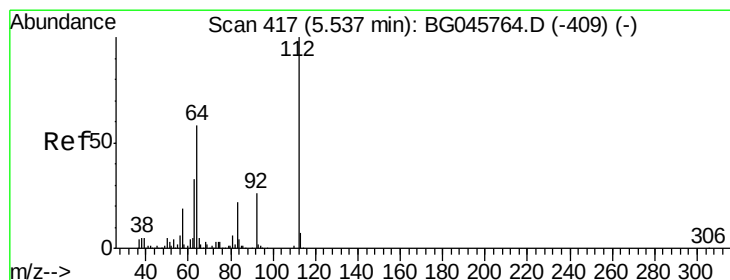
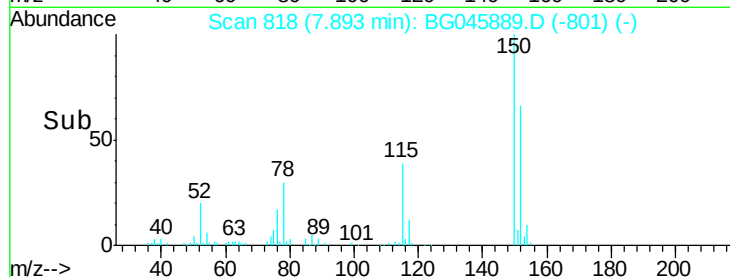
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.4 | 121.2 | 181.8 |
| 115     | 58.9  | 47.5  | 71.3  |



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



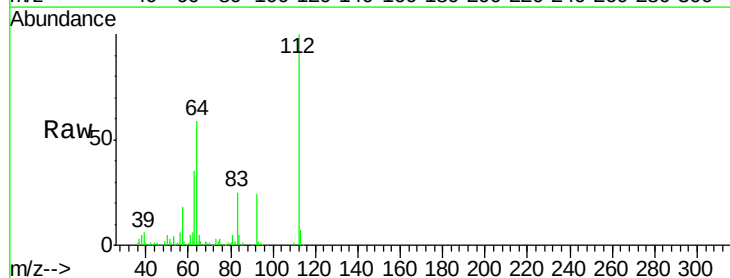
Time--> 7.80 7.85 7.90 7.95 8.00



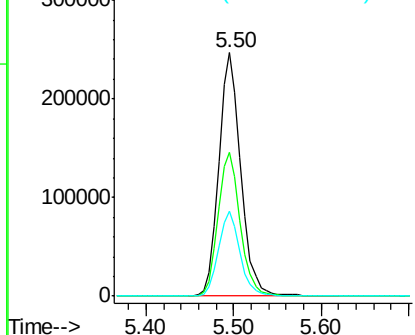
#5

2-Fluorophenol  
Concen: 127.714 ng  
RT: 5.50 min Scan# 410  
Delta R.T. 0.00 min  
Lab File: BG045889.D  
Acq: 30 Jun 2020 18:06

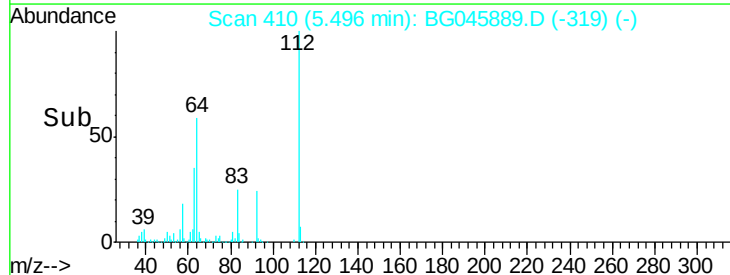
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.1  | 48.5  | 72.7  |
| 63      | 34.8  | 26.5  | 39.7  |

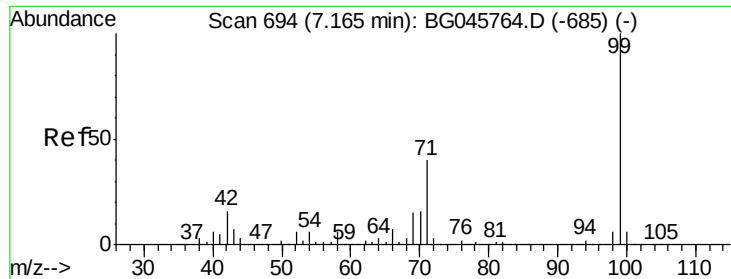


Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC



Time--> 5.40 5.50 5.60





#7

Phenol-d6

Concen: 122.844 ng

RT: 7.12 min Scan# 686

Delta R.T. 0.00 min

Lab File: BG045889.D

Acq: 30 Jun 2020 18:06

Instrument :

BNA\_G

ClientSampleId :

SP2-A

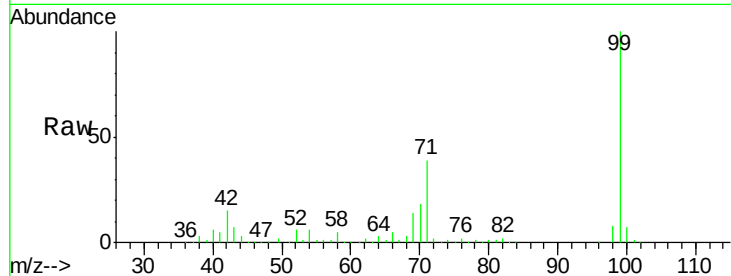
Tot Ion: 99 Resp: 625698

Ion Ratio Lower Upper

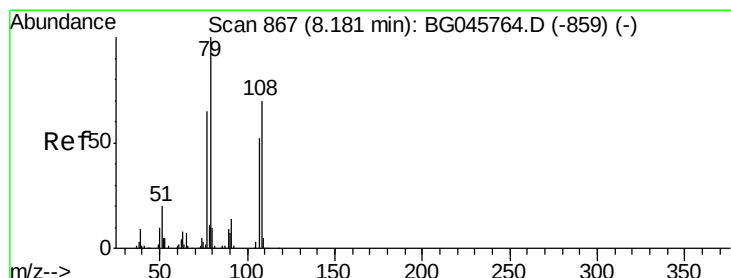
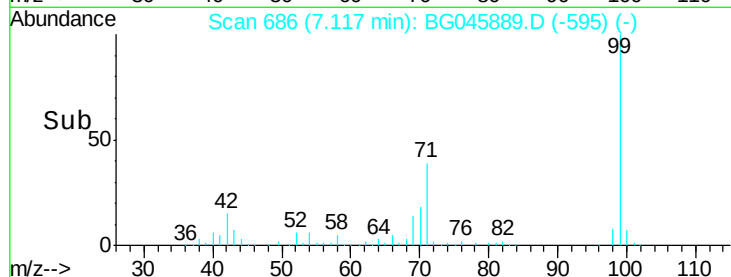
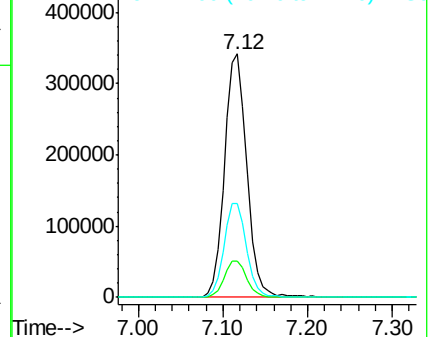
99 100

42 14.8 12.0 18.0

71 38.8 31.0 46.4



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



#15

Benzyl Alcohol

Concen: 2.035 ng

RT: 8.22 min Scan# 873

Delta R.T. 0.07 min

Lab File: BG045889.D

Acq: 30 Jun 2020 18:06

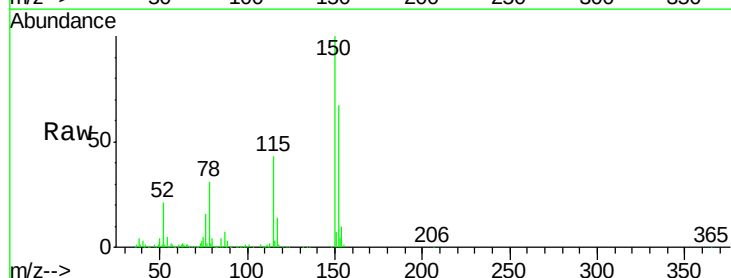
Tgt Ion: 79 Resp: 8020

Ion Ratio Lower Upper

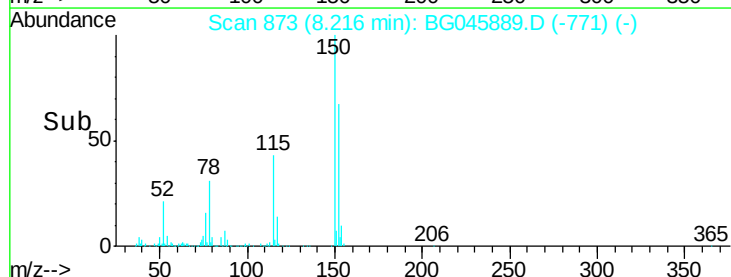
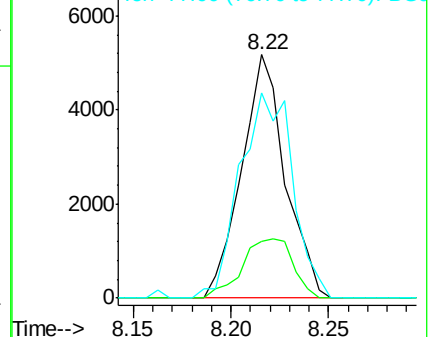
79 100

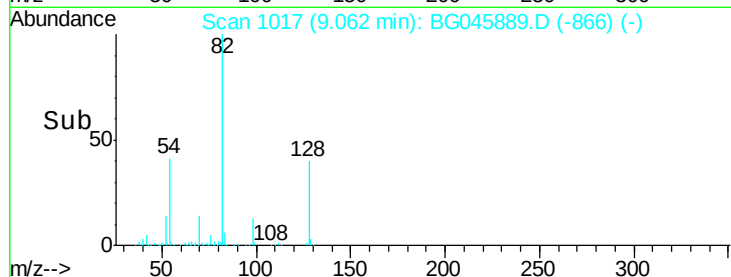
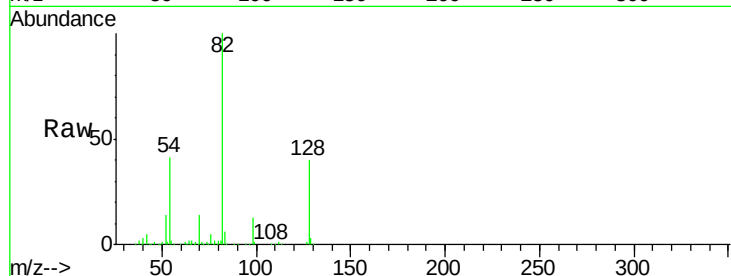
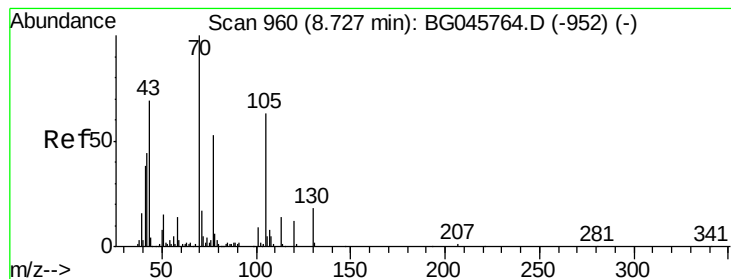
108 23.4 54.7 82.1#

77 84.4 52.6 79.0#



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: 17.721 ng

RT: 9.06 min Scan# 1017

Delta R.T. 0.36 min

Lab File: BG045889.D

Acq: 30 Jun 2020 18:06

Instrument :

BNA\_G

ClientSampleId :

SP2-A

Tot Ion: 70 Resp: 59341

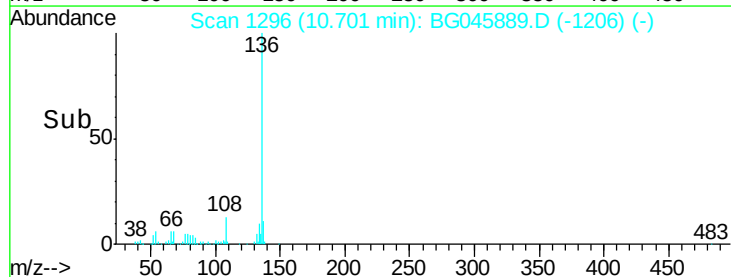
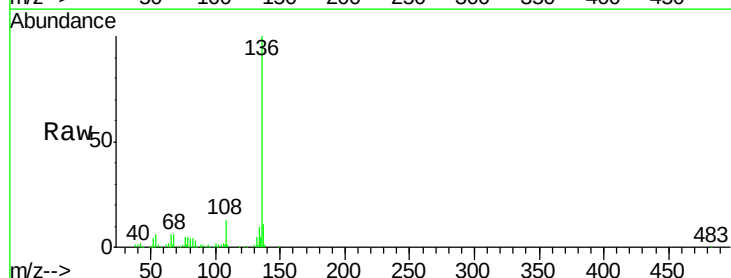
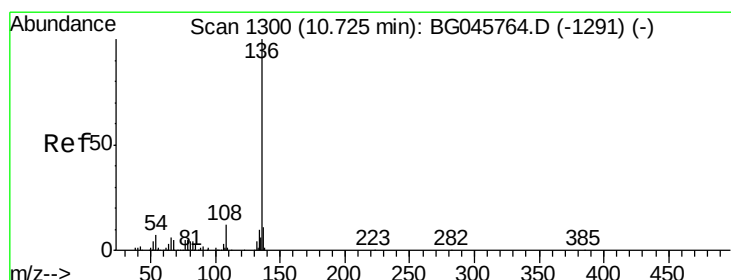
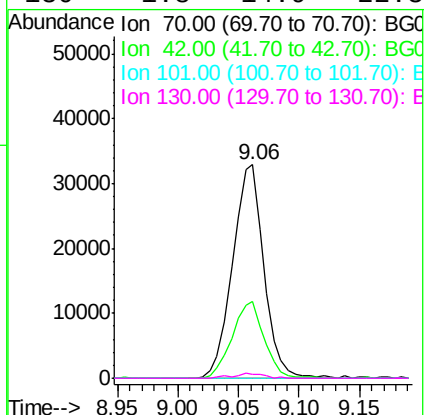
Ion Ratio Lower Upper

70 100

42 36.1 33.9 50.9

101 0.0 8.0 12.0#

130 1.8 14.9 22.3#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.70 min Scan# 1296

Delta R.T. -0.00 min

Lab File: BG045889.D

Acq: 30 Jun 2020 18:06

Tgt Ion:136 Resp: 217358

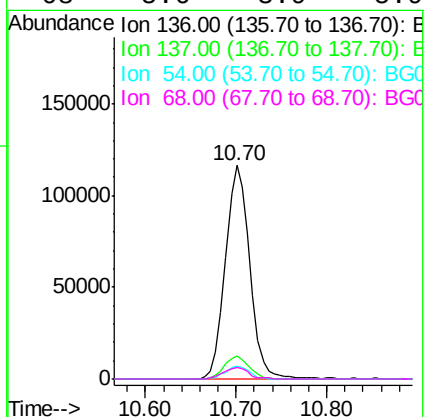
Ion Ratio Lower Upper

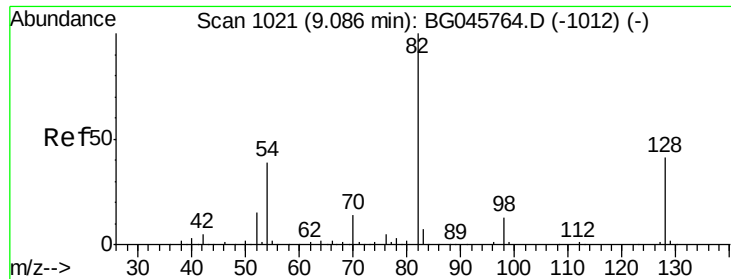
136 100

137 10.9 9.4 14.0

54 5.9 4.9 7.3

68 5.6 3.9 5.9

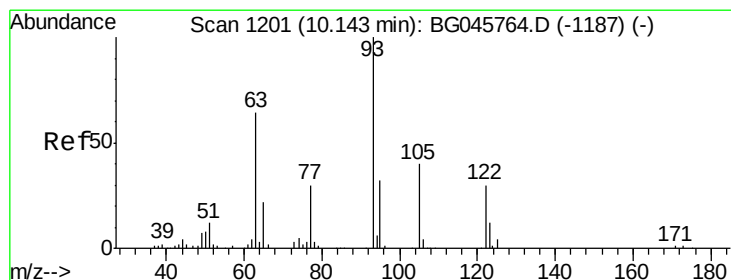
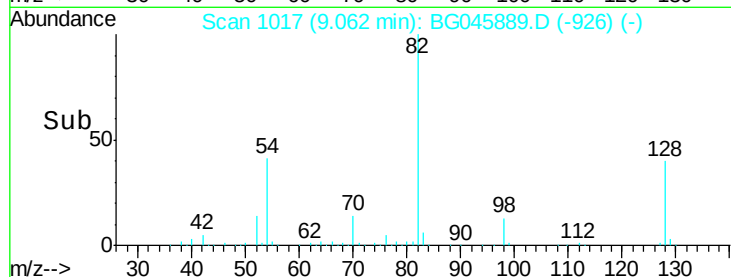
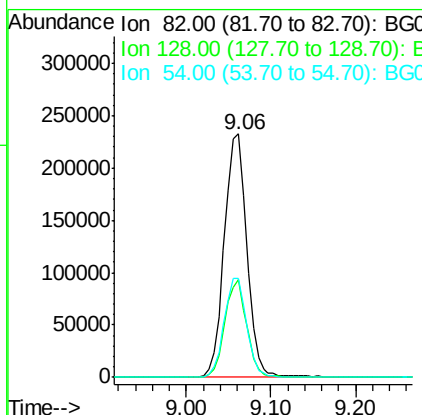
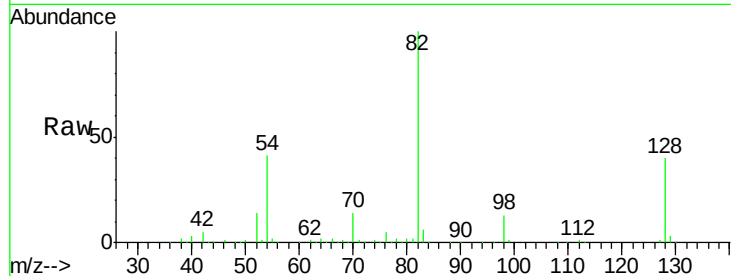




#23  
 Nitrobenzene-d5  
 Concen: 90.512 ng  
 RT: 9.06 min Scan# 1017  
 Delta R.T. 0.00 min  
 Lab File: BG045889.D  
 Acq: 30 Jun 2020 18:06

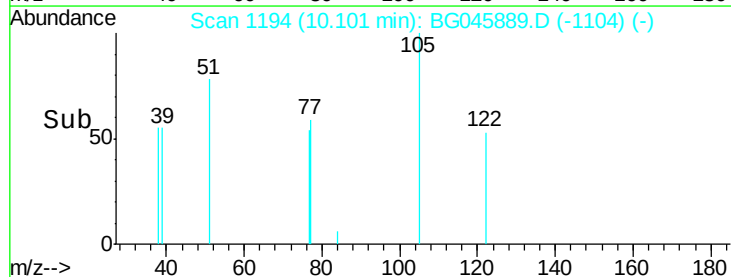
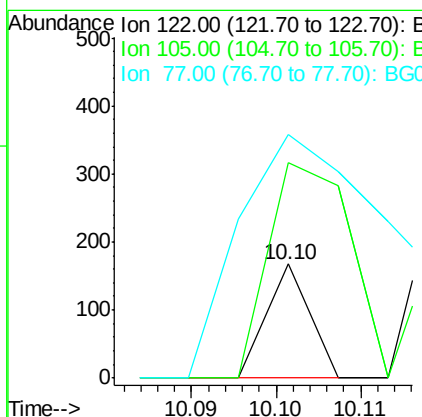
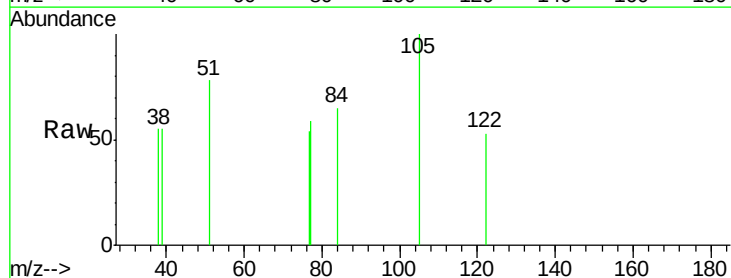
Instrument :  
 BNA\_G  
 ClientSampled :  
 SP2-A

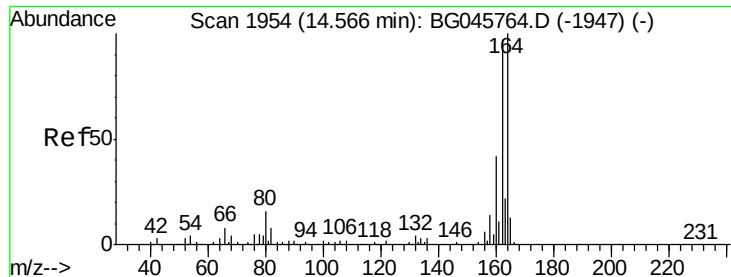
| Tot Ion   | 82   | Resp  | 430650 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 40.0 | 31.3  | 46.9   |
| 54        | 40.9 | 32.6  | 49.0   |



#32  
 Benzoic acid  
 Concen: 9.001 ng  
 RT: 10.10 min Scan# 1194  
 Delta R.T. -0.00 min  
 Lab File: BG045889.D  
 Acq: 30 Jun 2020 18:06

| Tgt Ion                                              | 122   | Resp  | 59     |
|------------------------------------------------------|-------|-------|--------|
| Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td> | 100   | Lower | Upper  |
| 105                                                  | 189.2 | 110.1 | 150.1# |
| 77                                                   | 214.4 | 94.1  | 134.1# |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.55 min Scan# 1951

Delta R.T. -0.00 min

Lab File: BG045889.D

Acq: 30 Jun 2020 18:06

Instrument :

BNA\_G

ClientSampleId :

SP2-A

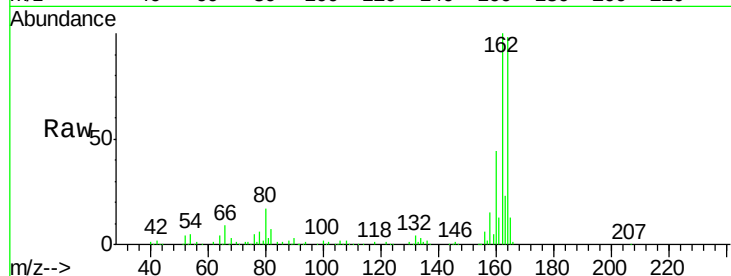
Tot Ion:164 Resp: 143384

Ion Ratio Lower Upper

164 100

162 101.6 80.6 120.8

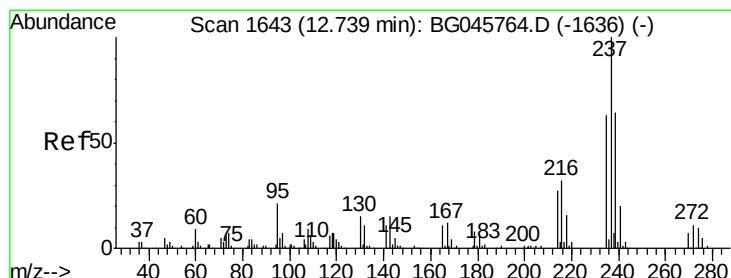
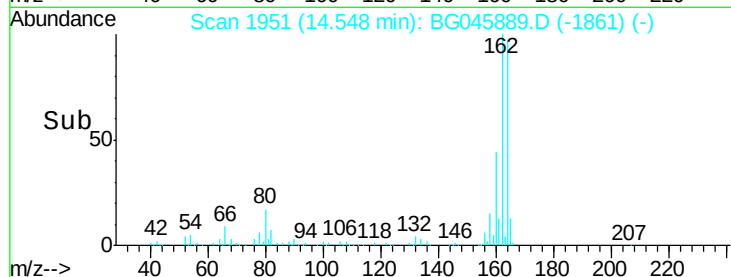
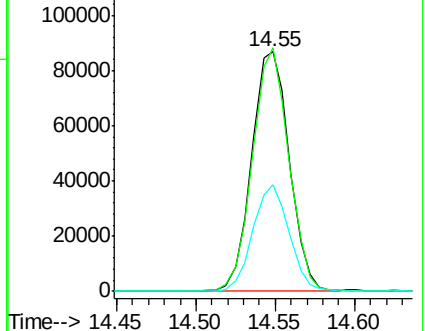
160 44.5 35.0 52.4



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: 8.443 ng

RT: 12.71 min Scan# 1638

Delta R.T. -0.01 min

Lab File: BG045889.D

Acq: 30 Jun 2020 18:06

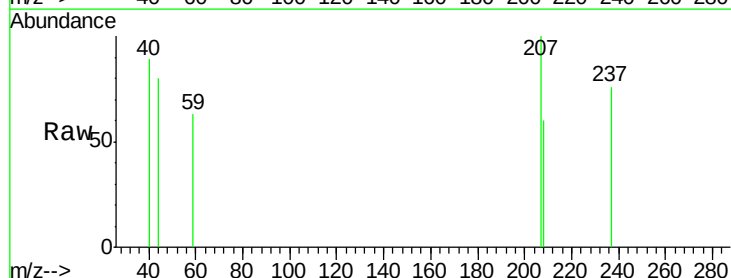
Tgt Ion:237 Resp: 71

Ion Ratio Lower Upper

237 100

235 0.0 41.3 81.3#

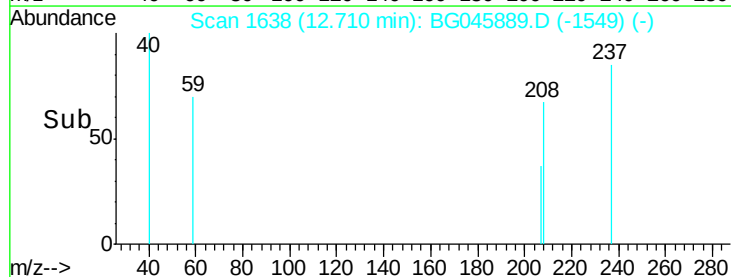
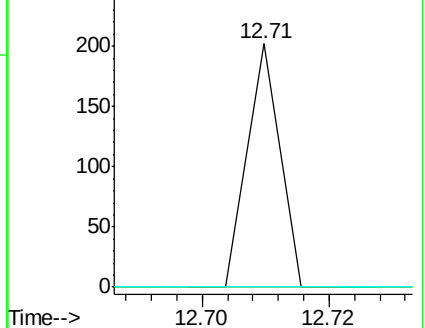
272 0.0 0.0 32.9

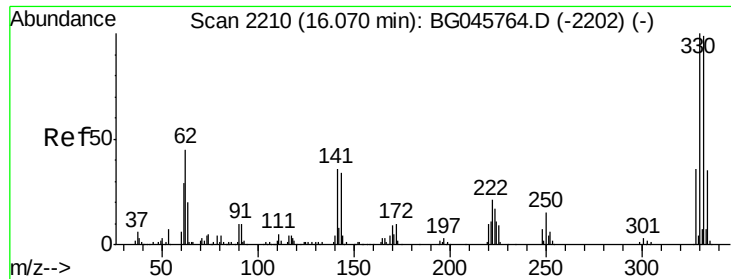


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E





#42

2,4,6-Tribromophenol

Concen: 129.240 ng

RT: 16.05 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BG045889.D

Acq: 30 Jun 2020 18:06

Instrument :

BNA\_G

ClientSampled :

SP2-A

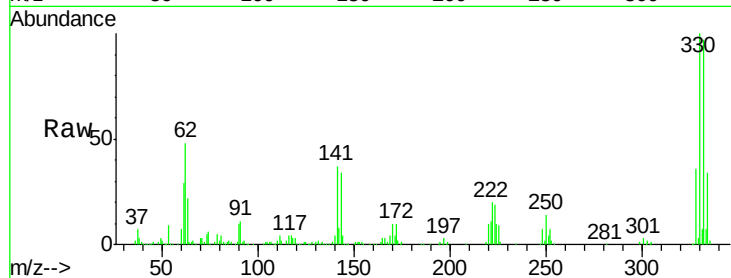
Tot Ion:330 Resp: 279770

Ion Ratio Lower Upper

330 100

332 97.4 76.6 114.8

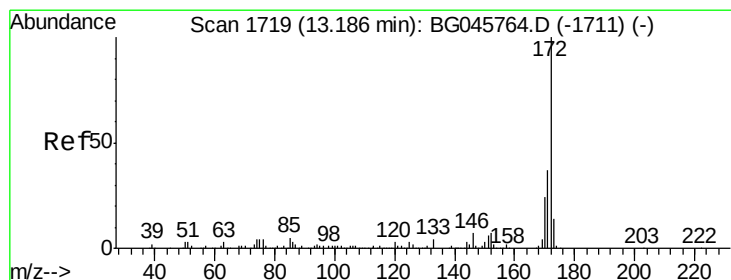
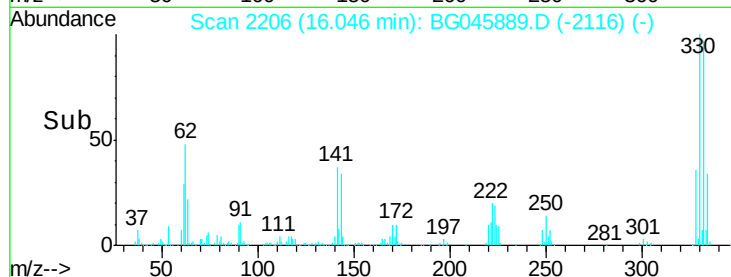
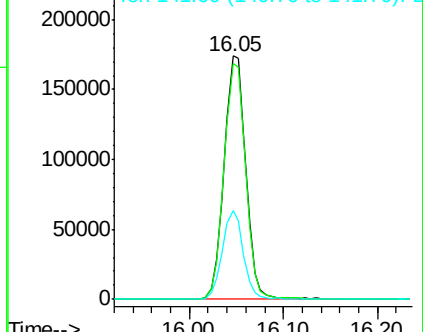
141 35.7 27.7 41.5



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: 94.543 ng

RT: 13.17 min Scan# 1716

Delta R.T. -0.00 min

Lab File: BG045889.D

Acq: 30 Jun 2020 18:06

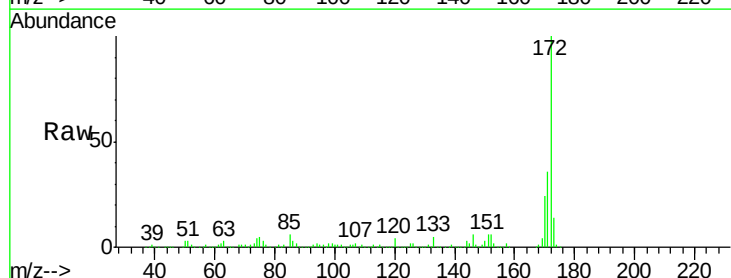
Tgt Ion:172 Resp: 922455

Ion Ratio Lower Upper

172 100

171 36.3 28.9 43.3

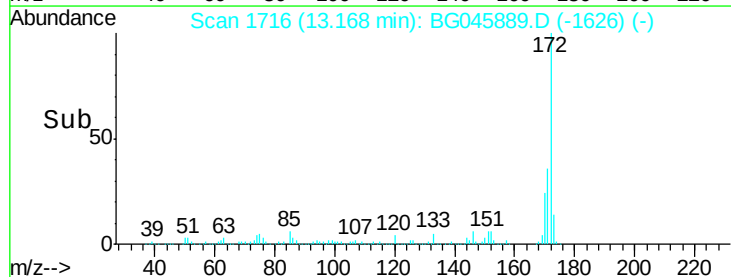
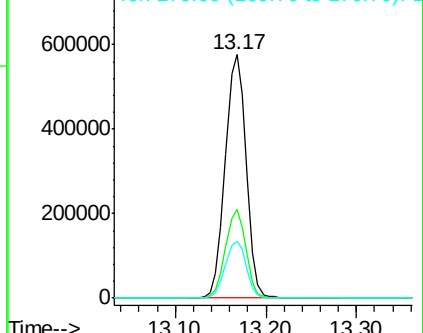
170 23.5 19.1 28.7



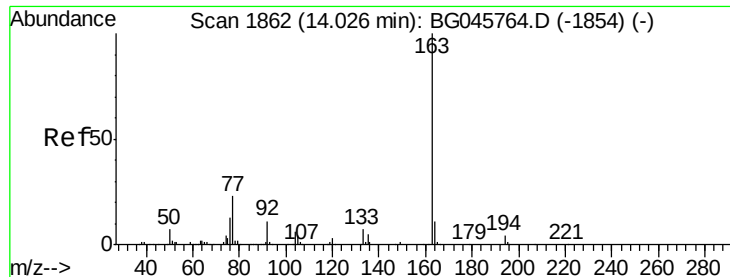
Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E







#50

Dimethylphthalate

Concen: 13.920 ng

RT: 14.00 min Scan# 1858

Delta R.T. -0.01 min

Lab File: BG045889.D

Acq: 30 Jun 2020 18:06

Instrument :

BNA\_G

ClientSampleId :

SP2-A

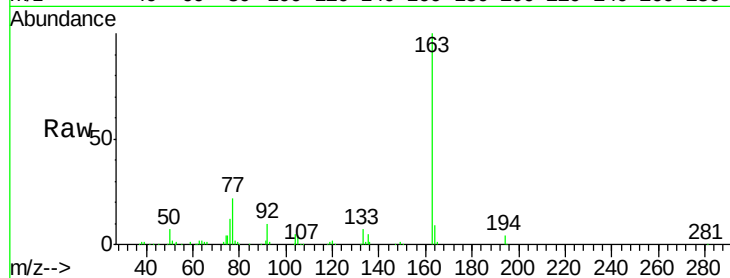
Tot Ion:163 Resp: 156360

Ion Ratio Lower Upper

163 100

194 4.1 3.3 4.9

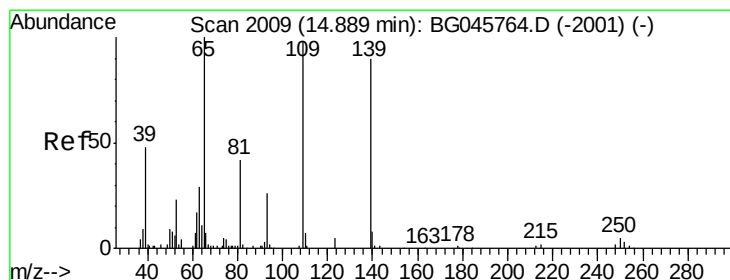
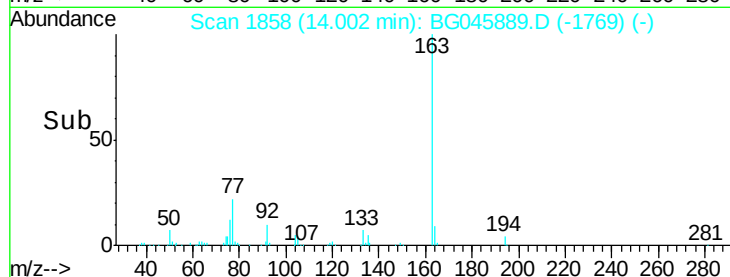
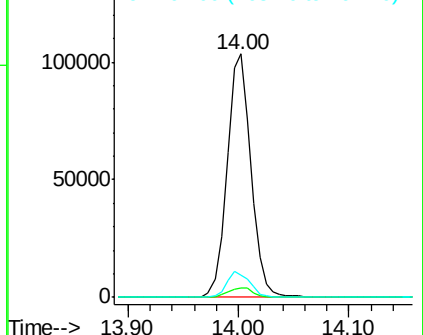
164 9.3 8.8 13.2



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

4-Nitrophenol

Concen: 4.007 ng

RT: 14.98 min Scan# 2025

Delta R.T. 0.15 min

Lab File: BG045889.D

Acq: 30 Jun 2020 18:06

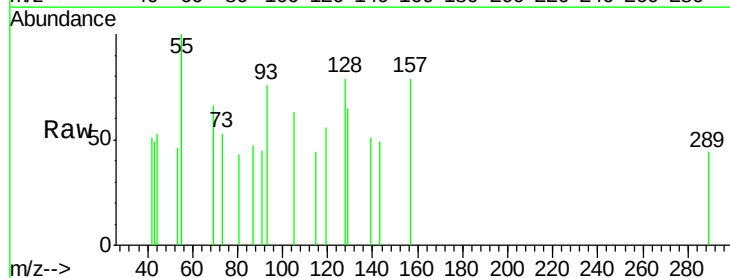
Tgt Ion:139 Resp: 64

Ion Ratio Lower Upper

139 100

109 0.0 83.9 123.9#

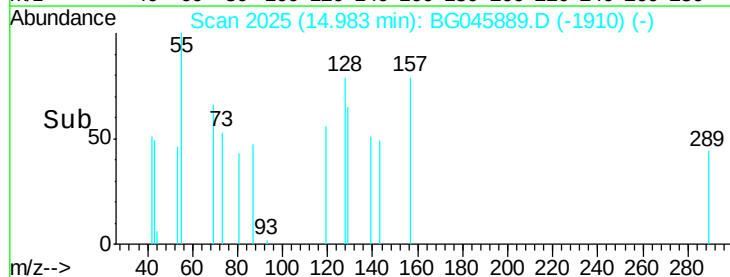
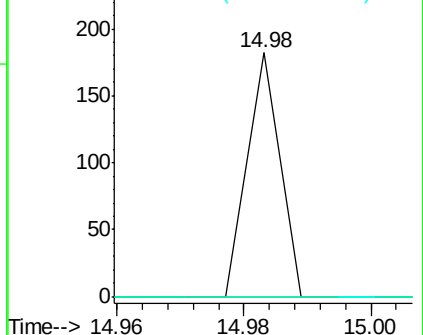
65 0.0 87.8 127.8#

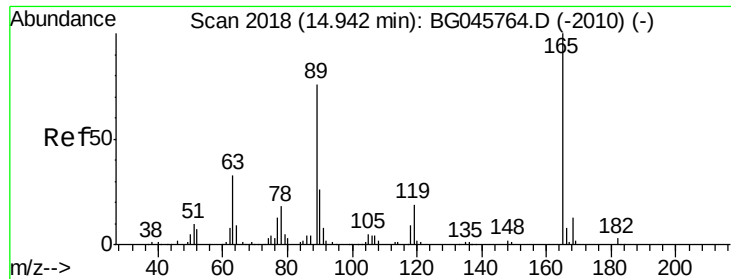


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BGC

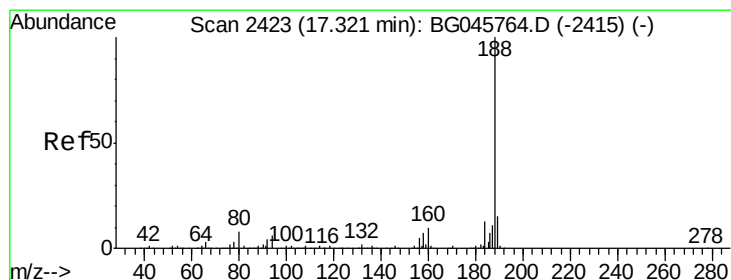
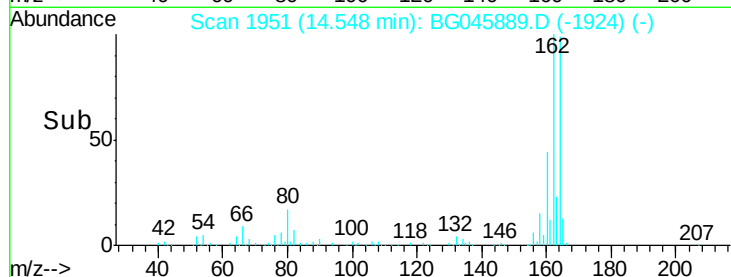
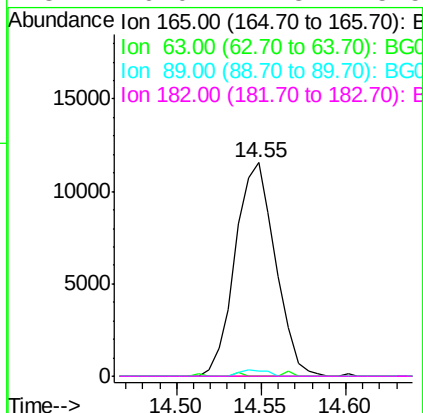
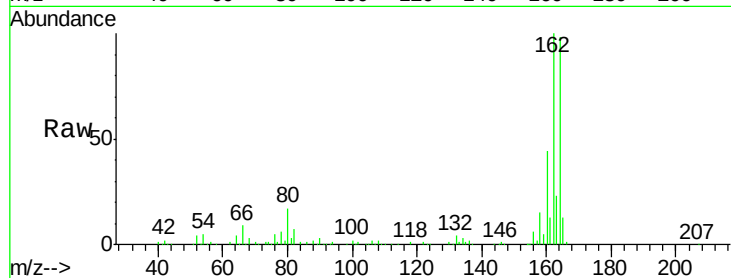




#57  
 2,4-Dinitrotoluene  
 Concen: 5.269 ng  
 RT: 14.55 min Scan# 1951  
 Delta R.T. -0.37 min  
 Lab File: BG045889.D  
 Acq: 30 Jun 2020 18:06

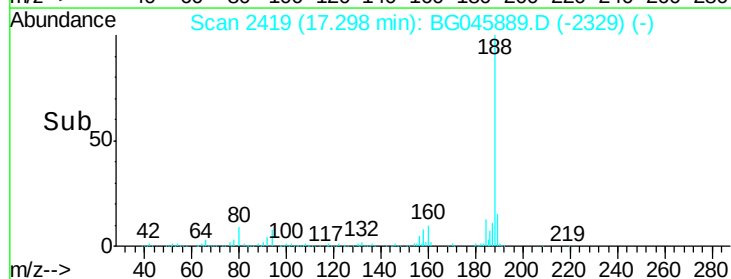
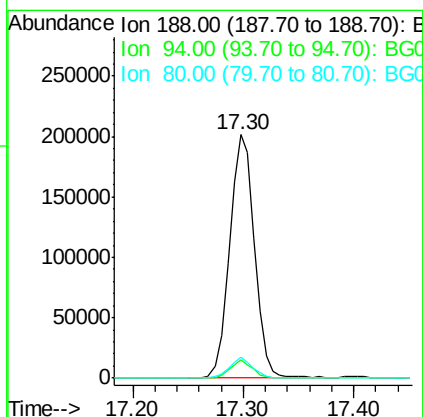
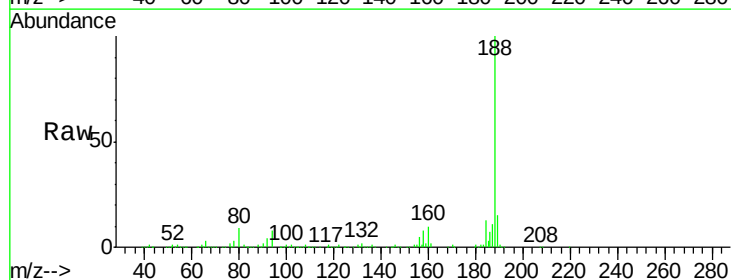
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP2-A

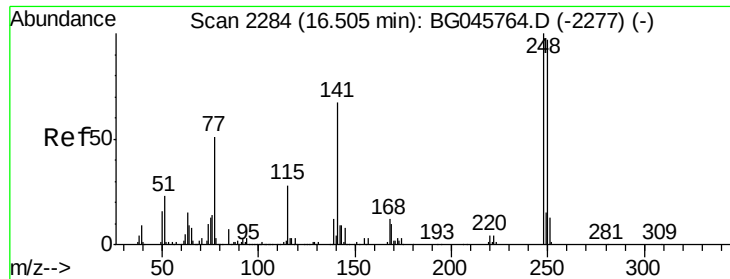
Tot Ion:165 Resp: 19046  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 35.2 52.8#  
 89 2.5 61.4 92.2#  
 182 0.0 2.3 3.5#



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.30 min Scan# 2419  
 Delta R.T. -0.00 min  
 Lab File: BG045889.D  
 Acq: 30 Jun 2020 18:06

Tgt Ion:188 Resp: 317069  
 Ion Ratio Lower Upper  
 188 100  
 94 7.5 5.7 8.5  
 80 8.8 6.6 10.0

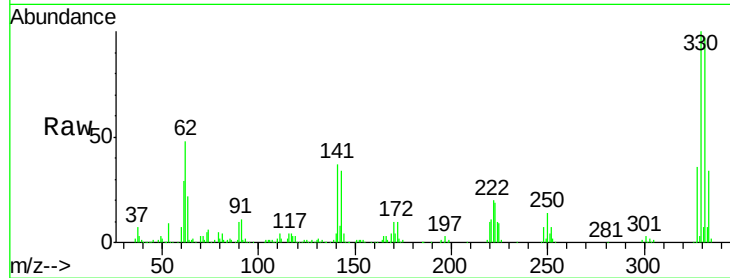




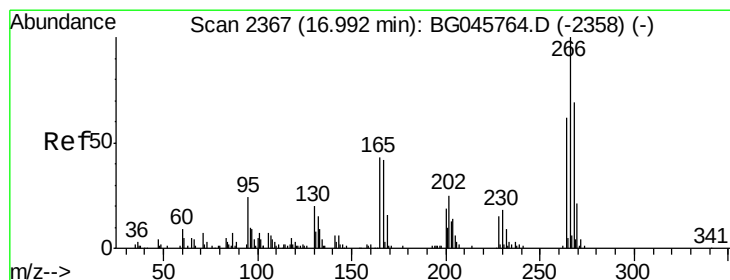
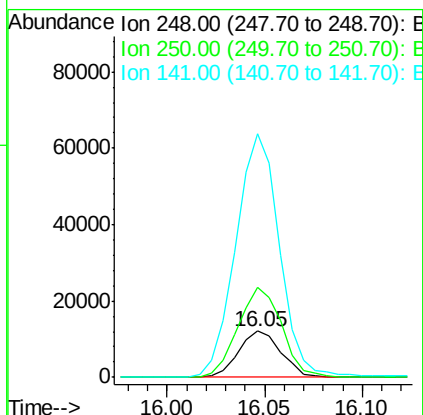
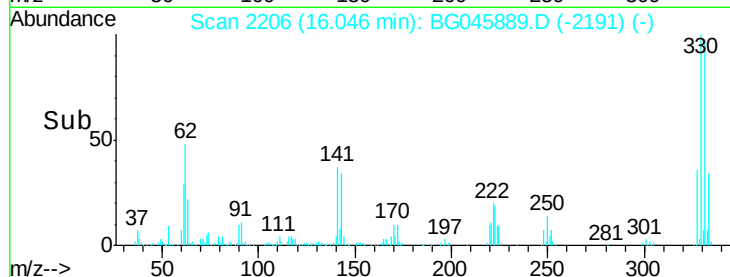
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.432 ng  
 RT: 16.05 min Scan# 2206  
 Delta R.T. -0.44 min  
 Lab File: BG045889.D  
 Acq: 30 Jun 2020 18:06

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP2-A

Tot Ion:248 Resp: 18260  
 Ion Ratio Lower Upper  
 248 100  
 250 195.7 76.8 115.2#  
 141 525.6 52.6 79.0#

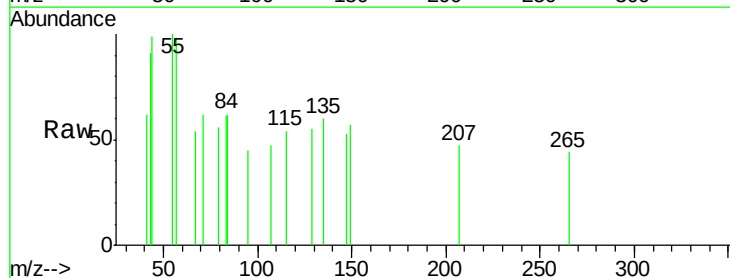


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

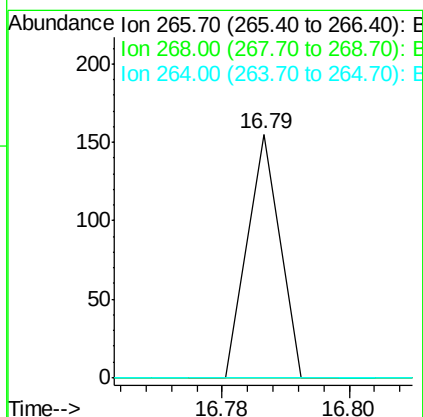
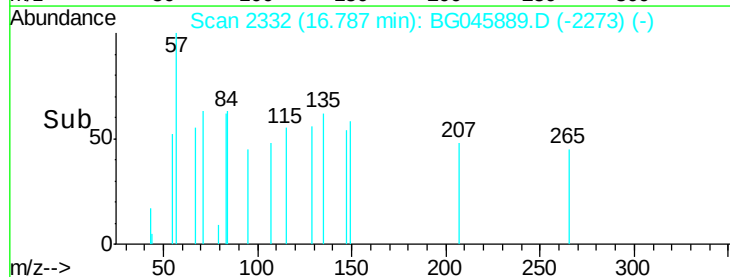


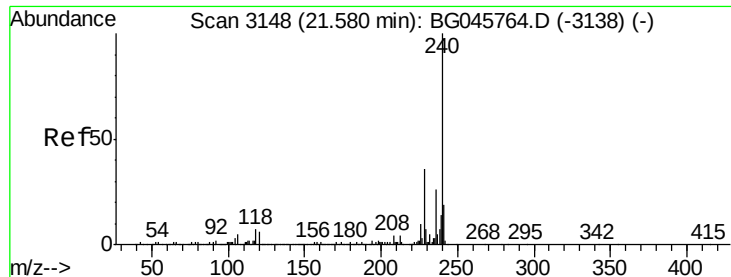
#70  
 Pentachlorophenol  
 Concen: 7.656 ng  
 RT: 16.79 min Scan# 2332  
 Delta R.T. -0.18 min  
 Lab File: BG045889.D  
 Acq: 30 Jun 2020 18:06

Tgt Ion:266 Resp: 55  
 Ion Ratio Lower Upper  
 266 100  
 268 0.0 50.9 76.3#  
 264 0.0 49.8 74.8#



Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.56 min Scan# 3144

Delta R.T. -0.00 min

Lab File: BG045889.D

Acq: 30 Jun 2020 18:06

Instrument :

BNA\_G

ClientSampled :

SP2-A

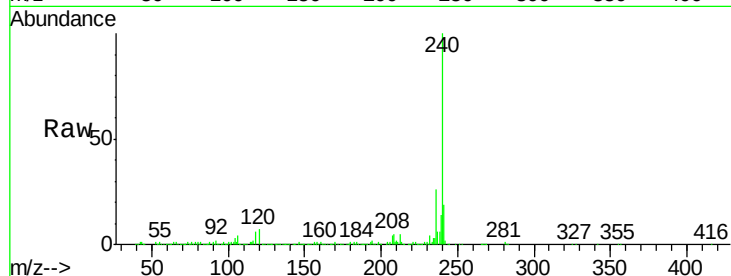
Tot Ion:240 Resp: 311259

Ion Ratio Lower Upper

240 100

120 6.5 5.6 8.4

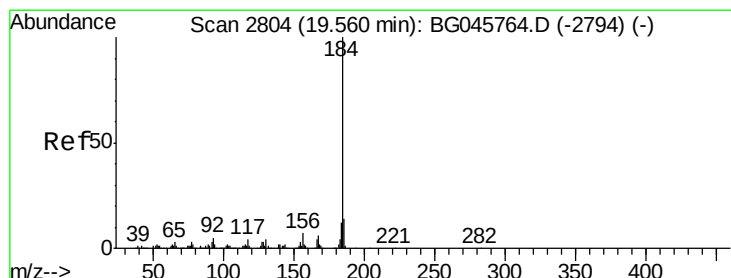
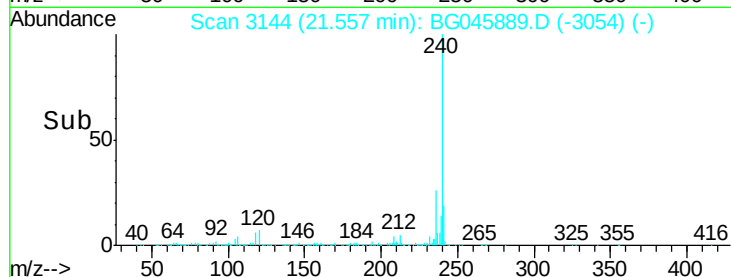
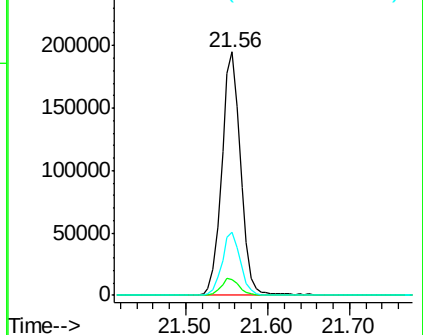
236 26.1 21.3 31.9



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: 3.194 ng

RT: 19.92 min Scan# 2865

Delta R.T. 0.37 min

Lab File: BG045889.D

Acq: 30 Jun 2020 18:06

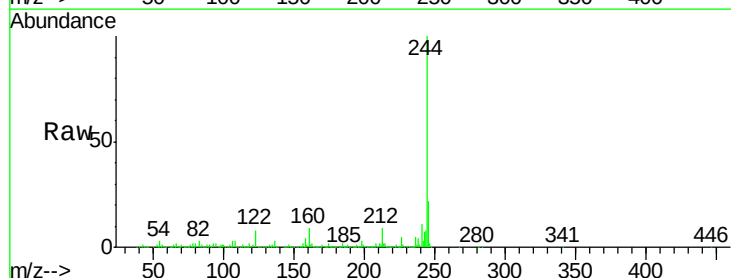
Tgt Ion:184 Resp: 25844

Ion Ratio Lower Upper

184 100

185 19.1 10.6 15.8#

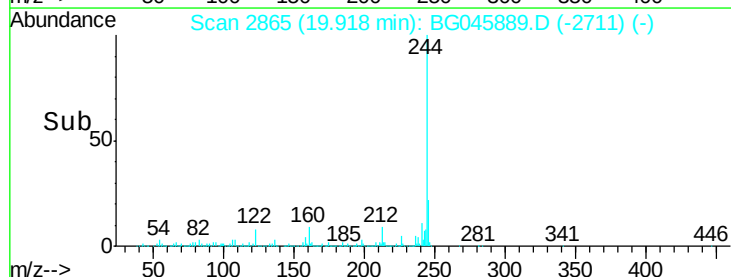
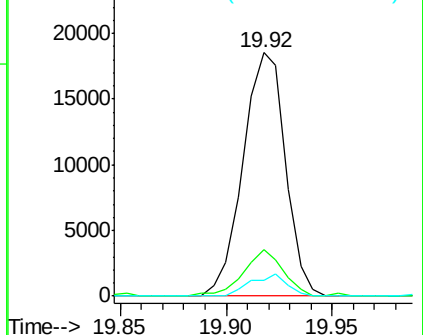
183 6.7 10.1 15.1#

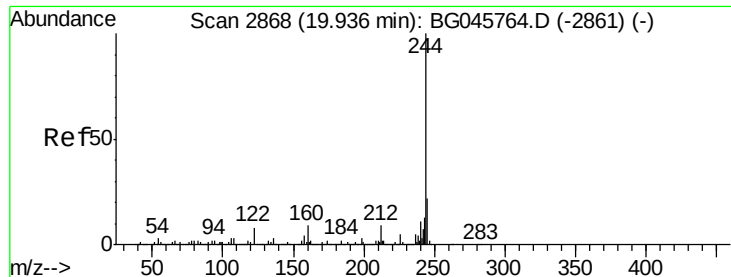


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 93.302 ng

RT: 19.92 min Scan# 2865

Delta R.T. -0.00 min

Lab File: BG045889.D

Acq: 30 Jun 2020 18:06

Instrument :

BNA\_G

ClientSampleId :

SP2-A

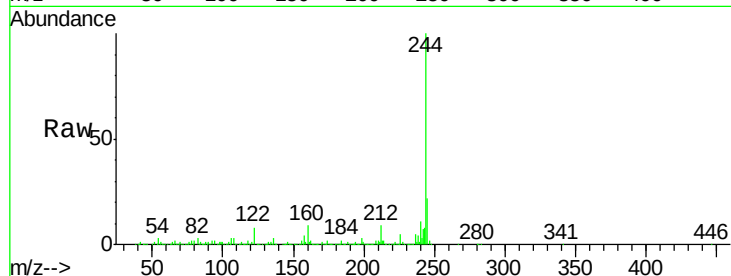
Tot Ion:244 Resp: 1433004

Ion Ratio Lower Upper

244 100

212 9.3 7.2 10.8

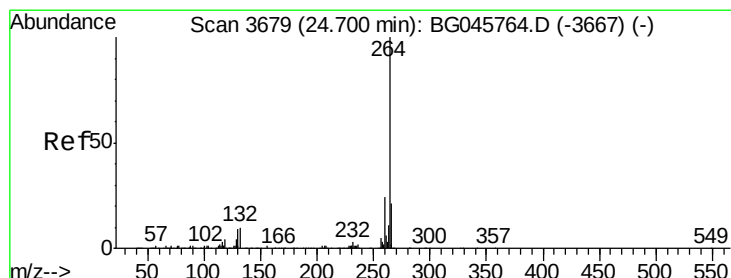
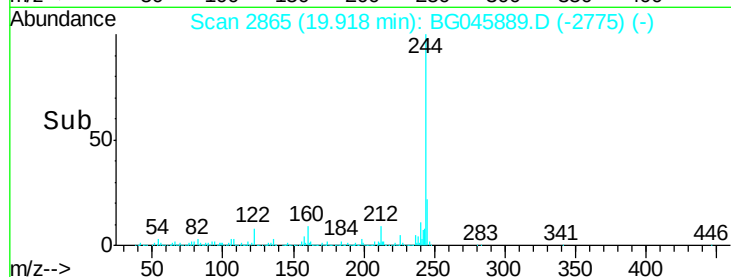
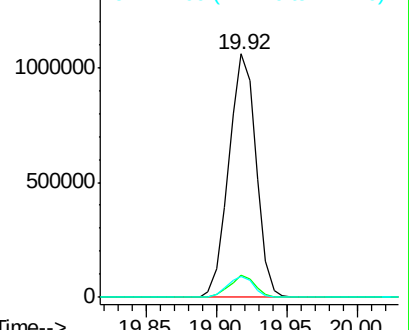
122 8.4 6.9 10.3



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: 24.67 min Scan# 3674

Delta R.T. -0.00 min

Lab File: BG045889.D

Acq: 30 Jun 2020 18:06

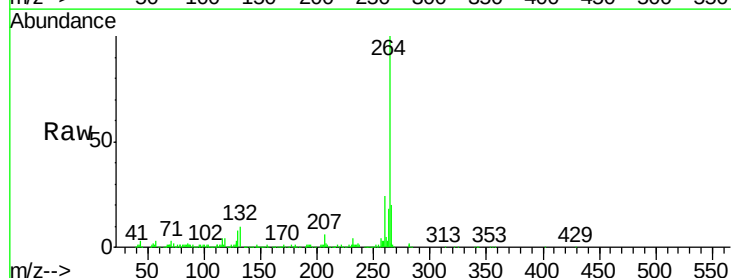
Tgt Ion:264 Resp: 317364

Ion Ratio Lower Upper

264 100

260 24.0 19.5 29.3

265 20.4 17.4 26.0



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

