

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031820\  
 Data File : BG044895.D  
 Acq On : 19 Mar 2020 12:59  
 Operator : CG/JU  
 Sample : L1873-06  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 19 14:32:32 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG031020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 16 17:37:15 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.04  | 152  | 81410    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 10.85 | 136  | 303449   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 14.67 | 164  | 197028   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 17.42 | 188  | 455357   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 21.68 | 240  | 480624   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 24.89 | 264  | 535996   | 20.00 | ng    | -0.02    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.61  | 112 | 604120  | 115.52 | ng | 0.00  |
| 7) Phenol-d6             | 7.20  | 99  | 769591  | 101.28 | ng | 0.00  |
| 23) Nitrobenzene-d5      | 9.20  | 82  | 611320  | 88.40  | ng | 0.00  |
| 42) 2,4,6-Tribromophenol | 16.16 | 330 | 384006  | 148.85 | ng | -0.01 |
| 45) 2-Fluorobiphenyl     | 13.30 | 172 | 1252263 | 91.02  | ng | 0.00  |
| 79) Terphenyl-d14        | 20.03 | 244 | 2232336 | 86.88  | ng | 0.00  |

## Target Compounds

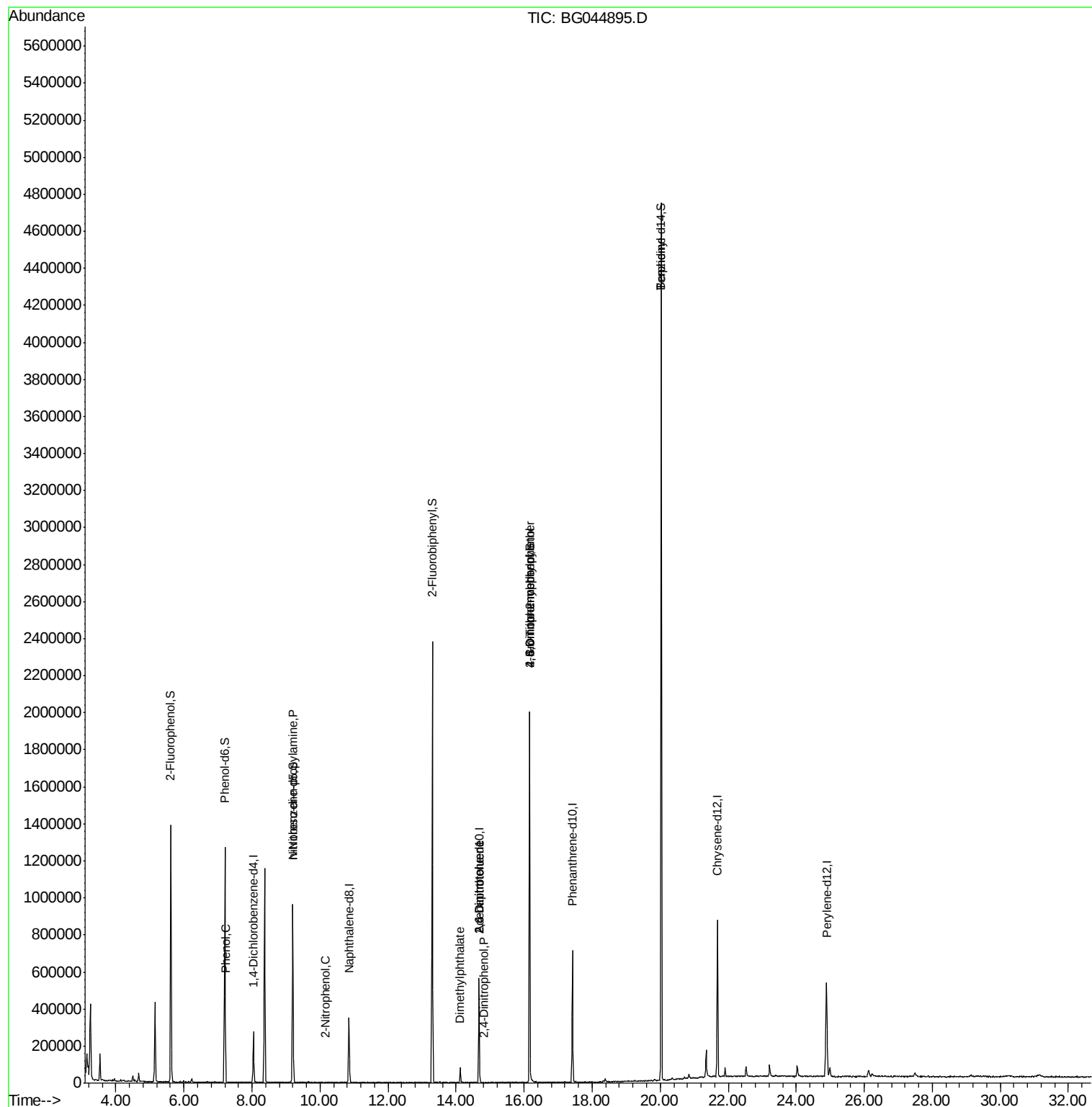
|                                |       |     |       |           |   | Qvalue |
|--------------------------------|-------|-----|-------|-----------|---|--------|
| 9) Benzaldehyde                | 7.19  | 77  | 1889  | Below Cal | # | 6      |
| 10) Phenol                     | 7.22  | 94  | 15554 | 2.068 ng  | # | 65     |
| 19) n-Nitroso-di-n-propylamine | 9.20  | 70  | 83393 | 15.543 ng | # | 76     |
| 26) 2-Nitrophenol              | 10.15 | 139 | 57    | 5.535 ng  | # | 28     |
| 50) Dimethylphthalate          | 14.12 | 163 | 53759 | 3.426 ng  |   | 96     |
| 51) 2,6-Dinitrotoluene         | 14.67 | 165 | 26102 | 8.252 ng  | # | 22     |
| 54) 2,4-Dinitrophenol          | 14.81 | 184 | 65    | 8.358 ng  | # | 21     |
| 57) 2,4-Dinitrotoluene         | 14.67 | 165 | 26102 | 6.017 ng  | # | 23     |
| 65) 4,6-Dinitro-2-methylphenol | 16.15 | 198 | 1347  | 8.256 ng  | # | 1      |
| 67) 4-Bromophenyl-phenylether  | 16.16 | 248 | 26115 | 4.588 ng  | # | 1      |
| 77) Benizidine                 | 20.03 | 184 | 41279 | 2.646 ng  | # | 92     |

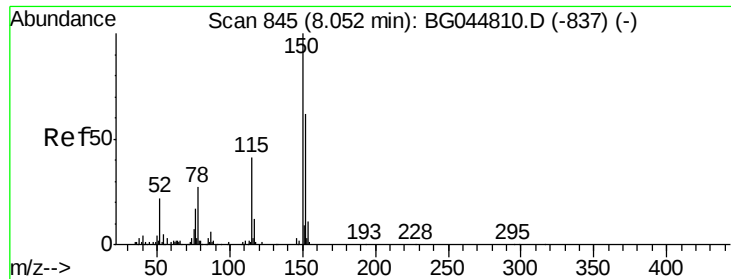
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L1873-06  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Mar 19 14:32:32 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG031020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 16 17:37:15 2020  
Response via : Initial Calibration



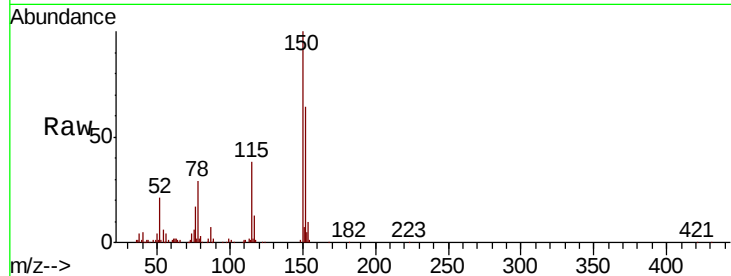


#1

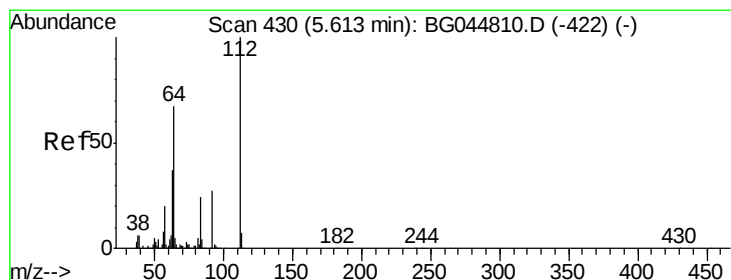
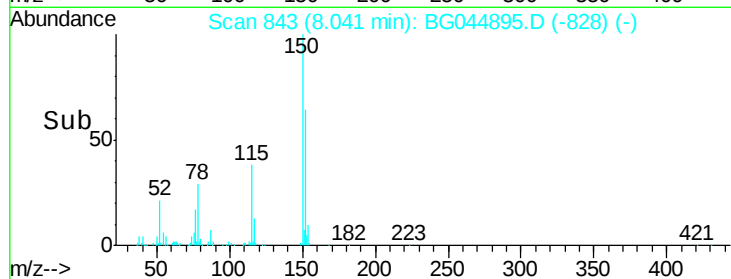
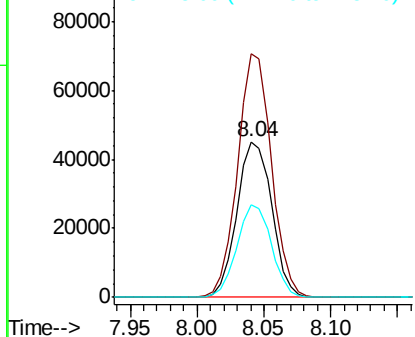
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.04 min Scan# 843  
Delta R.T. -0.01 min  
Lab File: BG044895.D  
Acq: 19 Mar 2020 12:59

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 81410  
Ion Ratio Lower Upper  
152 100  
150 156.6 128.8 193.2  
115 59.2 52.6 79.0



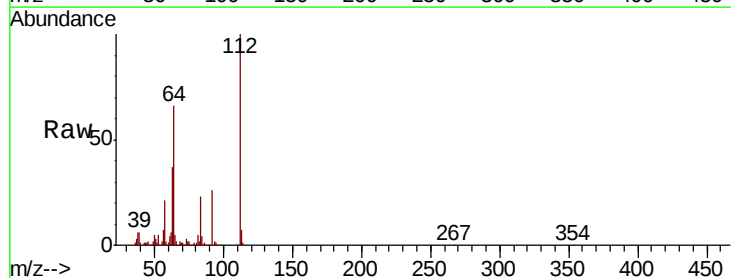
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



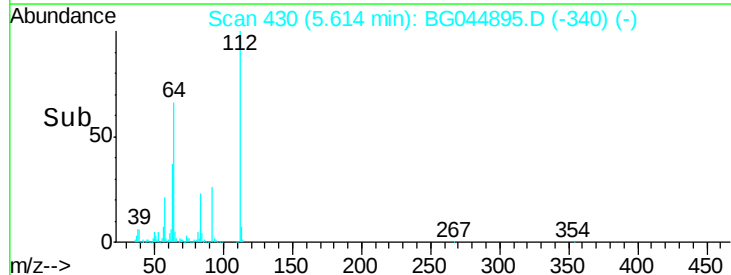
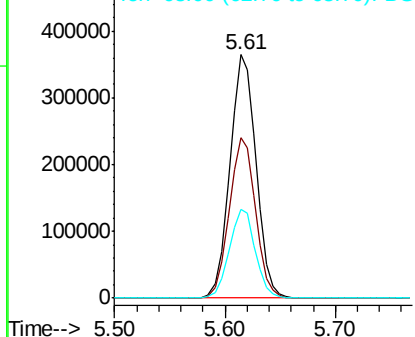
#5

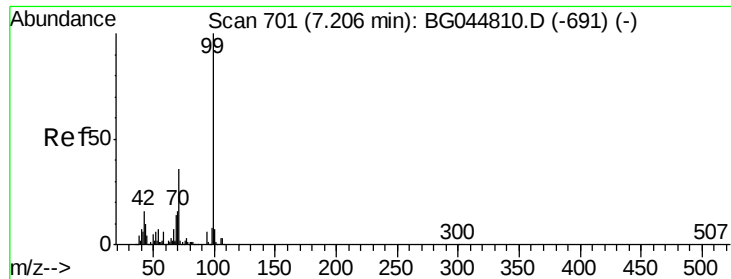
2-Fluorophenol  
Concen: 115.518 ng  
RT: 5.61 min Scan# 430  
Delta R.T. 0.00 min  
Lab File: BG044895.D  
Acq: 19 Mar 2020 12:59

Tgt Ion:112 Resp: 604120  
Ion Ratio Lower Upper  
112 100  
64 66.2 53.4 80.2  
63 36.5 29.4 44.2



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: 101.284 ng

RT: 7.20 min Scan# 700

Delta R.T. -0.00 min

Lab File: BG044895.D

Acq: 19 Mar 2020 12:59

Instrument :

BNA\_G

ClientSampleId :

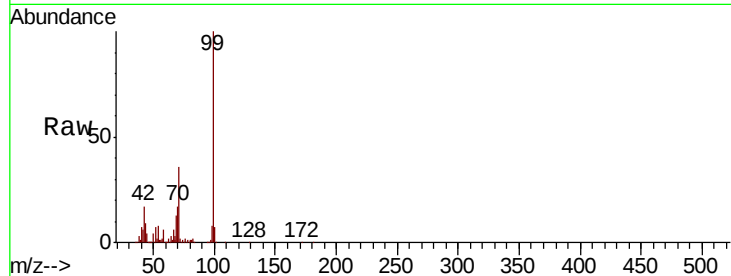
Tot Ion: 99 Resp: 769591

Ion Ratio Lower Upper

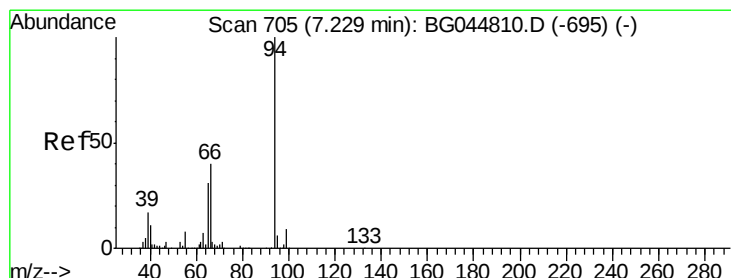
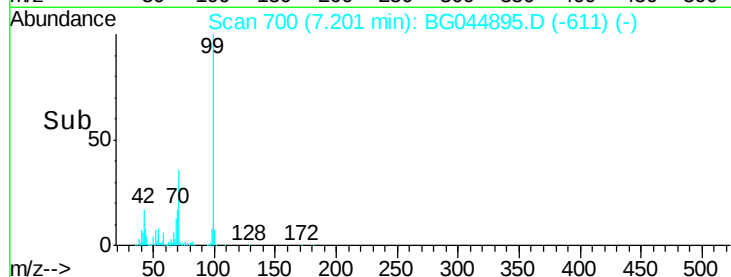
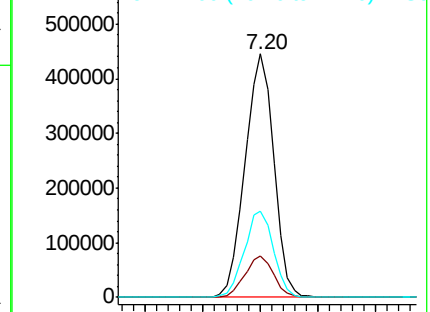
99 100

42 17.1 12.6 19.0

71 35.5 29.0 43.4



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



#10

Phenol

Concen: 2.068 ng

RT: 7.22 min Scan# 704

Delta R.T. -0.00 min

Lab File: BG044895.D

Acq: 19 Mar 2020 12:59

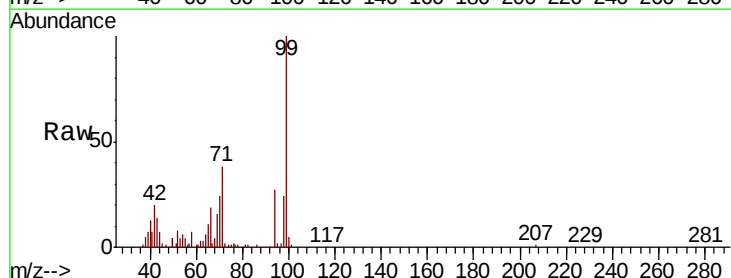
Tgt Ion: 94 Resp: 15554

Ion Ratio Lower Upper

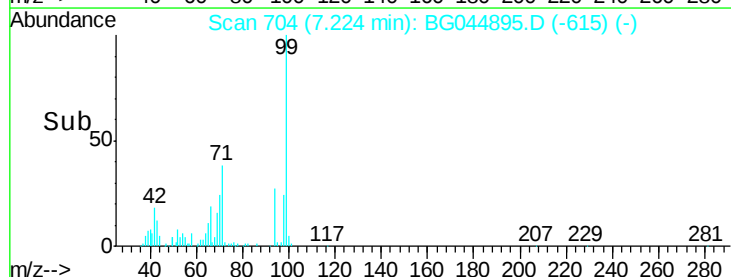
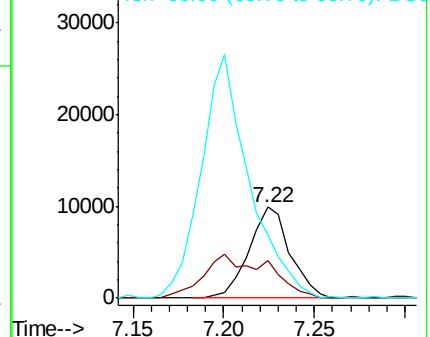
94 100

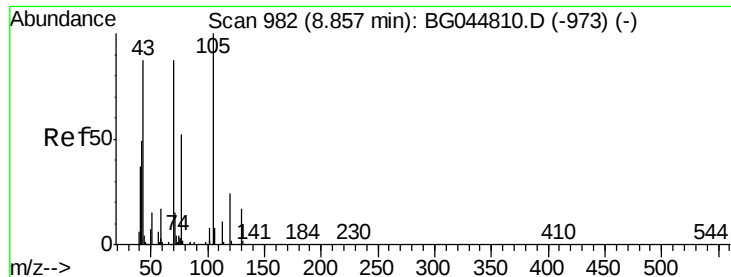
65 40.7 11.0 51.0

66 70.2 20.1 60.1#



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

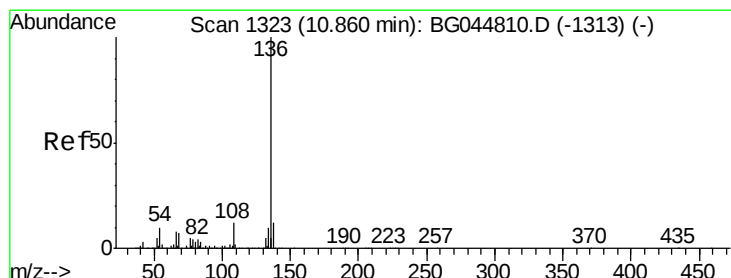
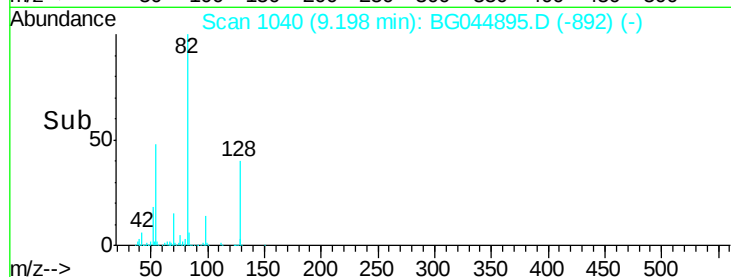
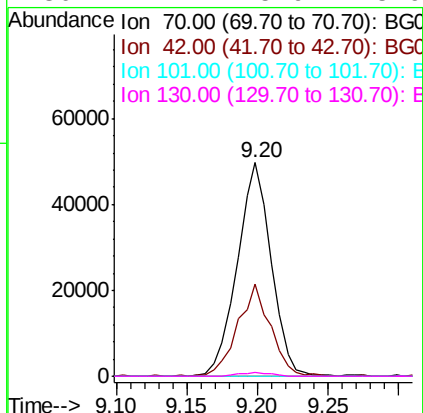
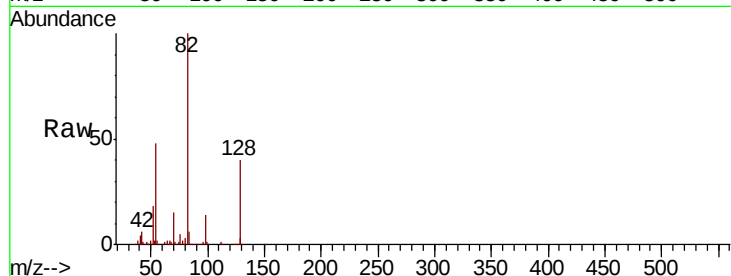




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.543 ng  
RT: 9.20 min Scan# 1040  
Delta R.T. 0.34 min  
Lab File: BG044895.D  
Acq: 19 Mar 2020 12:59

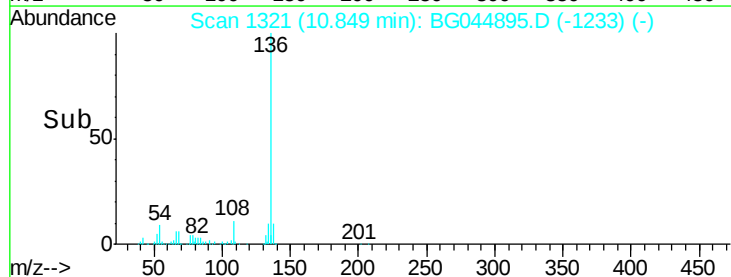
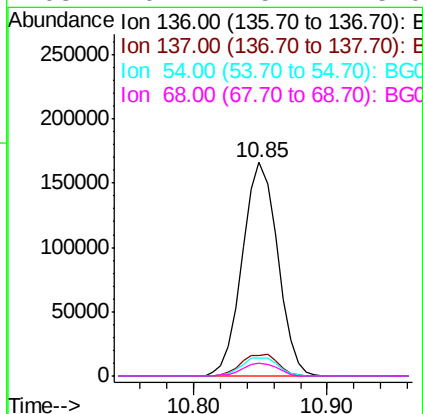
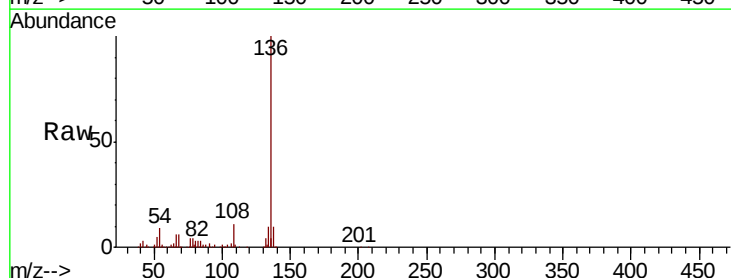
Instrument :  
BNA\_G  
ClientSampleId :

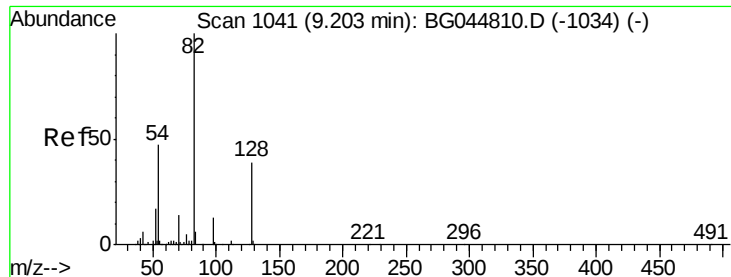
Tot Ion: 70 Resp: 83393  
Ion Ratio Lower Upper  
70 100  
42 43.3 45.7 68.5#  
101 0.0 7.4 11.2#  
130 1.7 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.85 min Scan# 1321  
Delta R.T. -0.01 min  
Lab File: BG044895.D  
Acq: 19 Mar 2020 12:59

Tgt Ion:136 Resp: 303449  
Ion Ratio Lower Upper  
136 100  
137 9.8 9.8 14.6  
54 8.6 7.9 11.9  
68 6.2 5.4 8.0

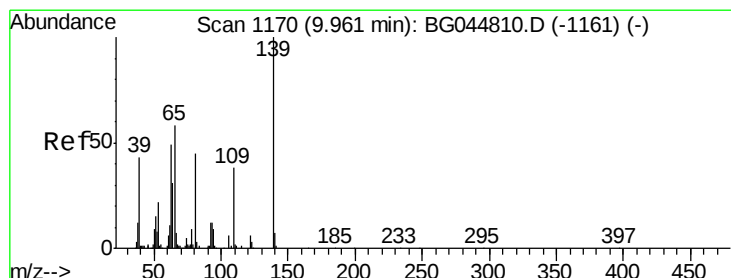
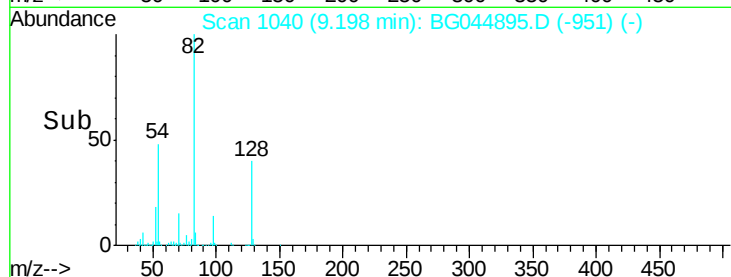
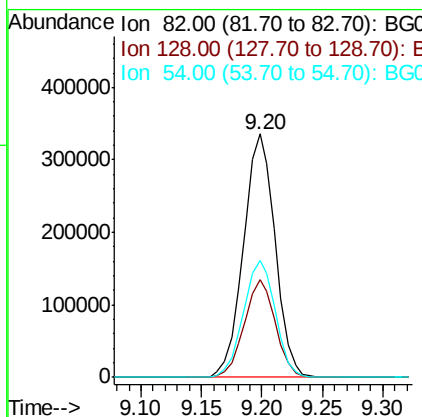
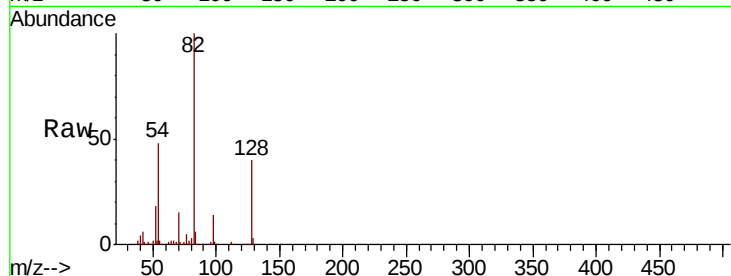




#23  
 Nitrobenzene-d5  
 Concen: 88.402 ng  
 RT: 9.20 min Scan# 1040  
 Delta R.T. -0.00 min  
 Lab File: BG044895.D  
 Acq: 19 Mar 2020 12:59

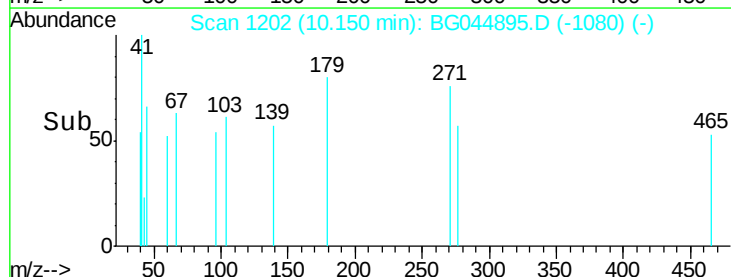
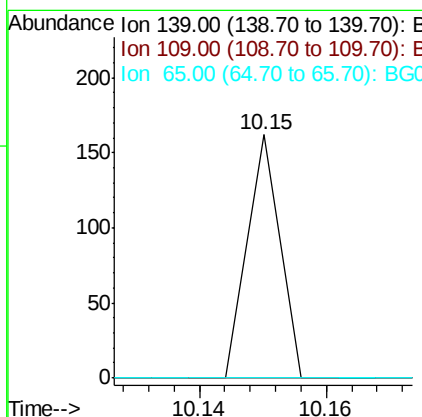
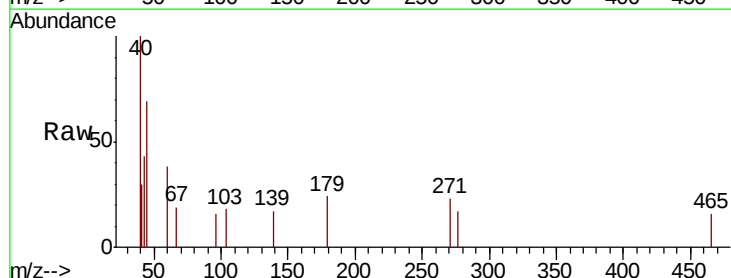
Instrument :  
 BNA\_G  
 ClientSampleId :

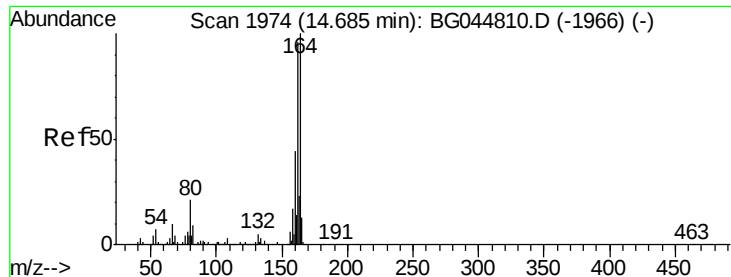
| Tot Ion   | 82    | Resp  | 611320 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 40.2  | 30.6  | 46.0   |
| 54        | 47.8  | 37.1  | 55.7   |



#26  
 2-Nitrophenol  
 Concen: 5.535 ng  
 RT: 10.15 min Scan# 1202  
 Delta R.T. 0.19 min  
 Lab File: BG044895.D  
 Acq: 19 Mar 2020 12:59

| Tgt Ion   | 139   | Resp  | 57    |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 139       | 100   |       |       |
| 109       | 0.0   | 30.2  | 45.4# |
| 65        | 0.0   | 46.3  | 69.5# |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.67 min Scan# 1972

Delta R.T. -0.01 min

Lab File: BG044895.D

Acq: 19 Mar 2020 12:59

Instrument :

BNA\_G

ClientSampleId :

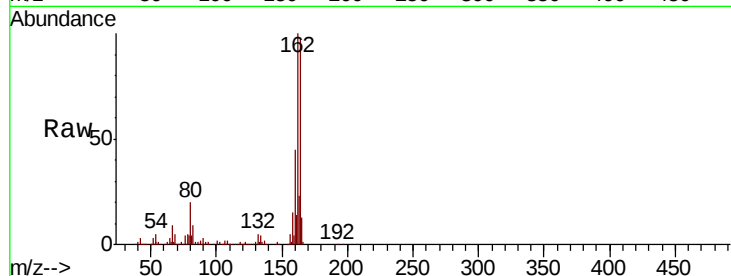
Tot Ion:164 Resp: 197028

Ion Ratio Lower Upper

164 100

162 103.5 76.7 115.1

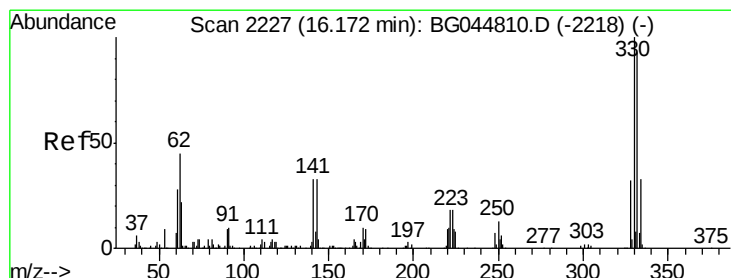
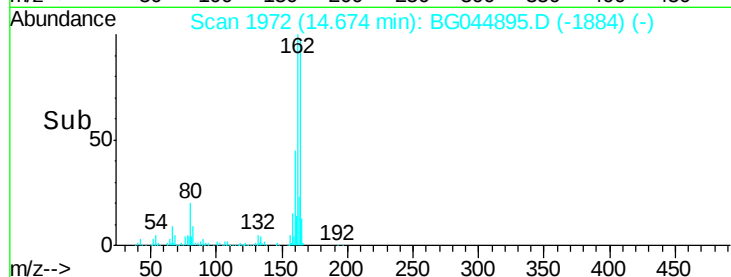
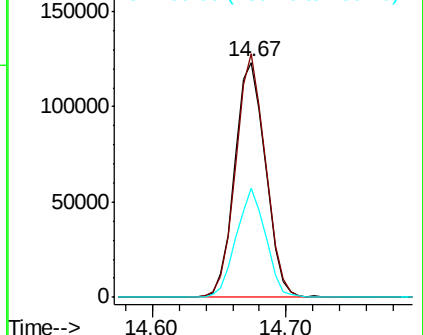
160 46.5 35.0 52.4



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



#42

2,4,6-Tribromophenol

Concen: 148.852 ng

RT: 16.16 min Scan# 2225

Delta R.T. -0.01 min

Lab File: BG044895.D

Acq: 19 Mar 2020 12:59

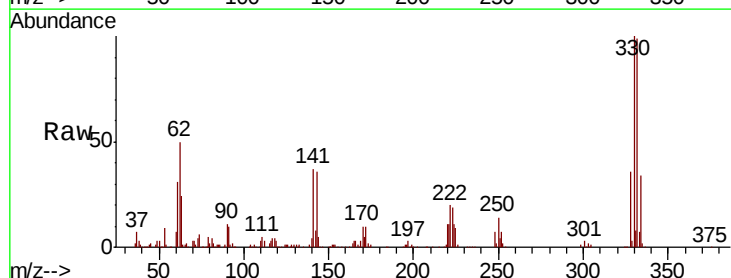
Tgt Ion:330 Resp: 384006

Ion Ratio Lower Upper

330 100

332 100.0 77.8 116.6

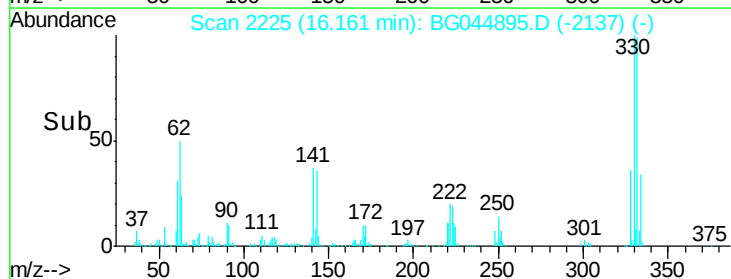
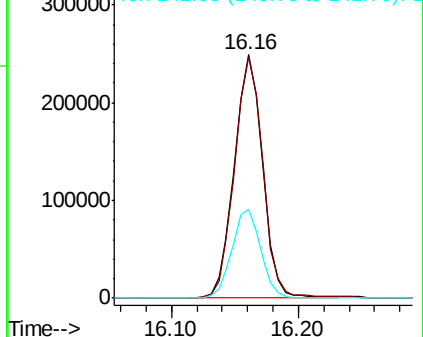
141 37.2 29.5 44.3

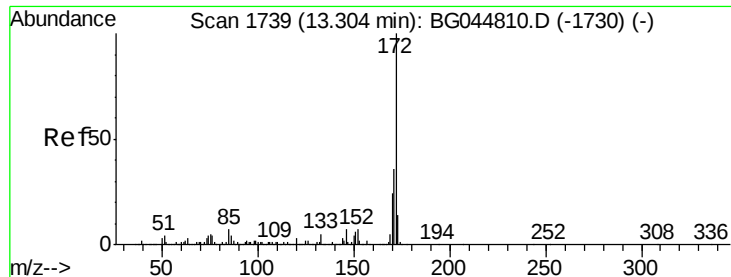


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

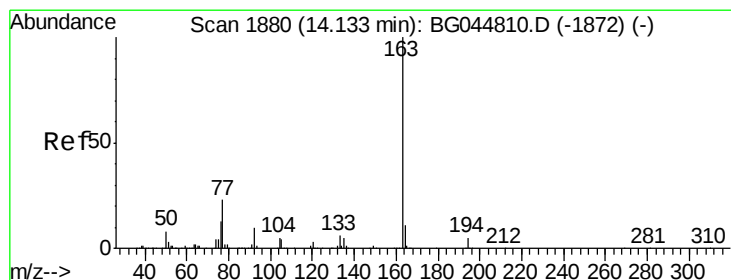
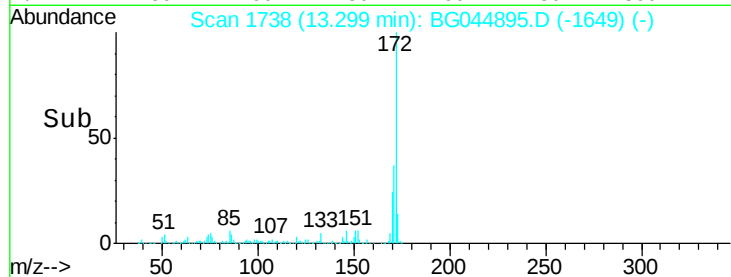
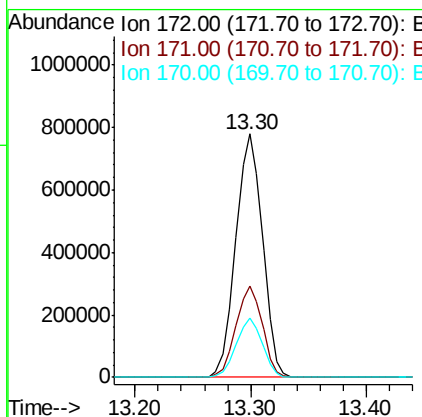
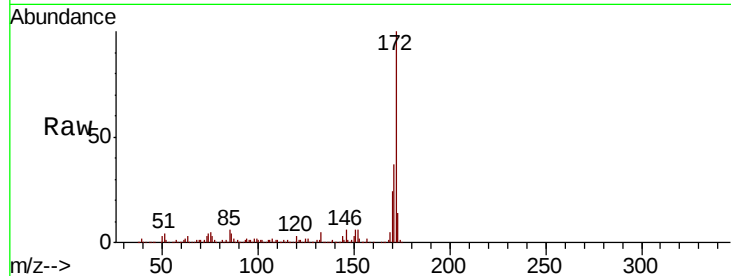




#45  
2-Fluorobiphenyl  
Concen: 91.017 ng  
RT: 13.30 min Scan# 1738  
Delta R.T. -0.00 min  
Lab File: BG044895.D  
Acq: 19 Mar 2020 12:59

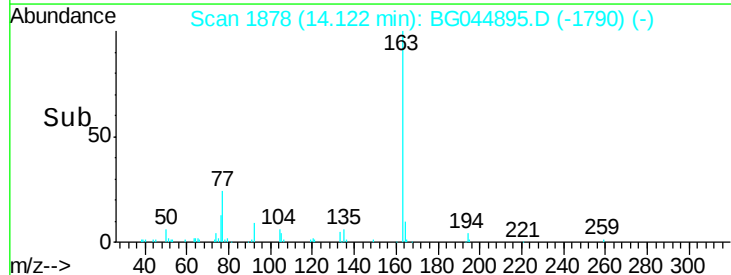
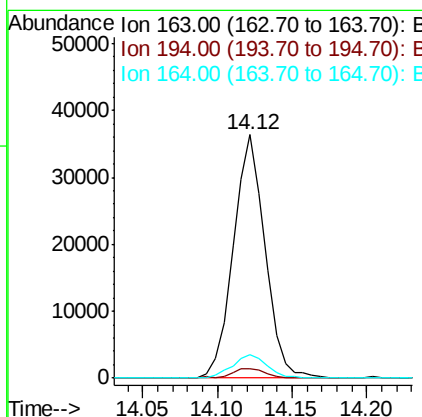
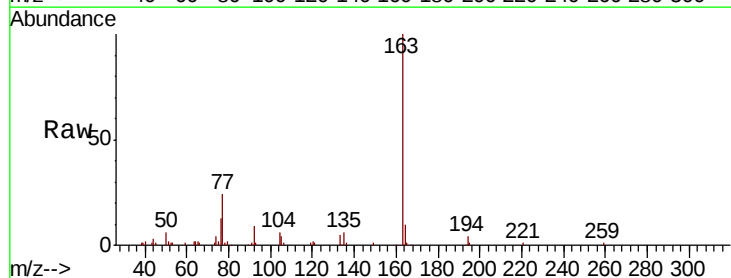
Instrument :  
BNA\_G  
ClientSampleId :

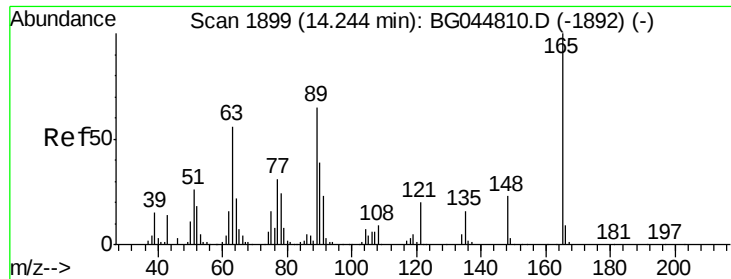
Tot Ion:172 Resp: 1252263  
Ion Ratio Lower Upper  
172 100  
171 37.5 28.7 43.1  
170 24.3 19.0 28.6



#50  
Dimethylphthalate  
Concen: 3.426 ng  
RT: 14.12 min Scan# 1878  
Delta R.T. -0.01 min  
Lab File: BG044895.D  
Acq: 19 Mar 2020 12:59

Tgt Ion:163 Resp: 53759  
Ion Ratio Lower Upper  
163 100  
194 4.1 3.7 5.5  
164 9.6 9.1 13.7





#51

2,6-Dinitrotoluene

Concen: 8.252 ng

RT: 14.67 min Scan# 1972

Delta R.T. 0.43 min

Lab File: BG044895.D

Acq: 19 Mar 2020 12:59

Instrument :

BNA\_G

ClientSampleId :

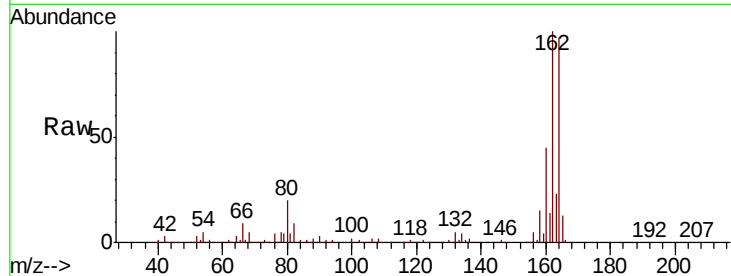
Tot Ion:165 Resp: 26102

Ion Ratio Lower Upper

165 100

63 2.1 45.8 68.8#

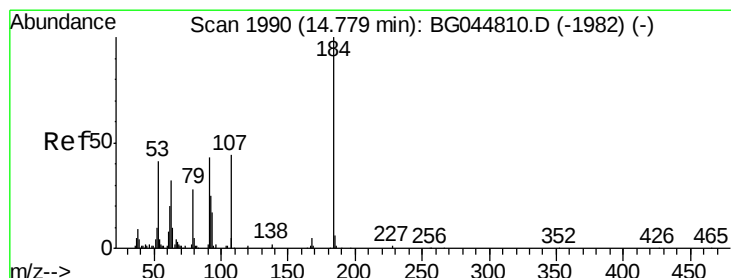
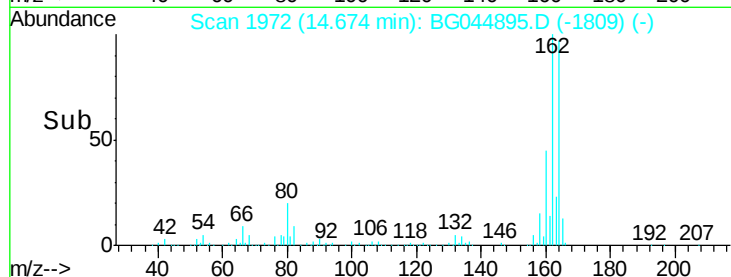
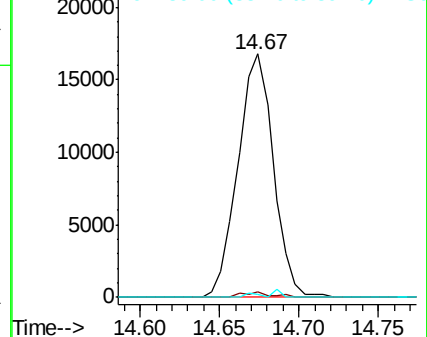
89 1.5 51.8 77.6#



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



#54

2,4-Dinitrophenol

Concen: 8.358 ng

RT: 14.81 min Scan# 1995

Delta R.T. 0.03 min

Lab File: BG044895.D

Acq: 19 Mar 2020 12:59

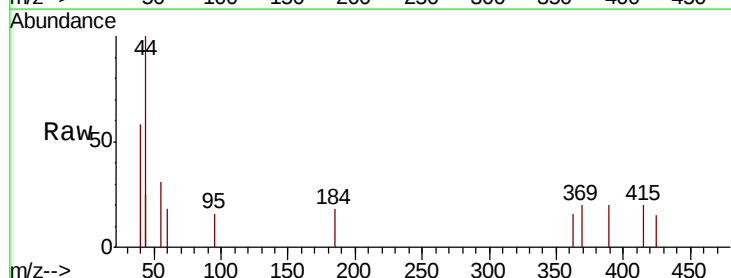
Tgt Ion:184 Resp: 65

Ion Ratio Lower Upper

184 100

63 0.0 45.5 68.3#

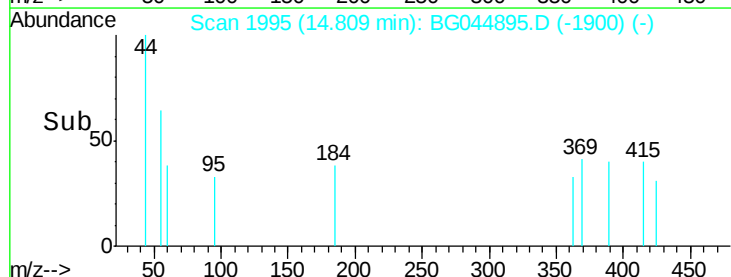
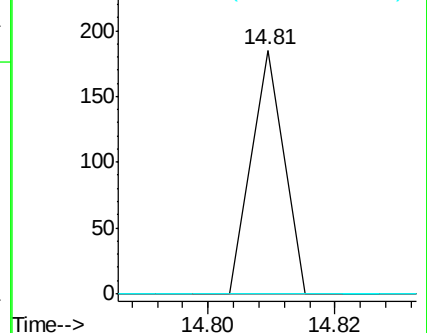
154 0.0 49.1 73.7#

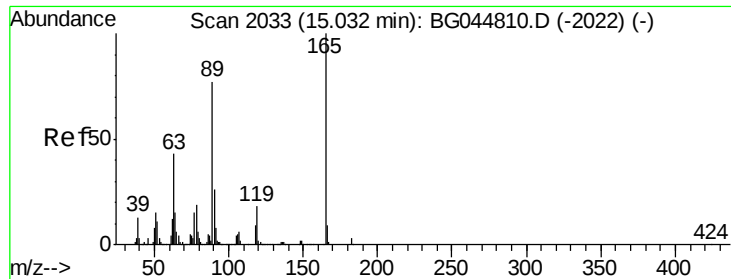


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 154.00 (153.70 to 154.70): E

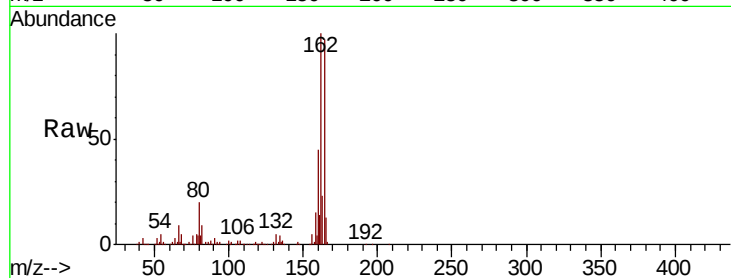




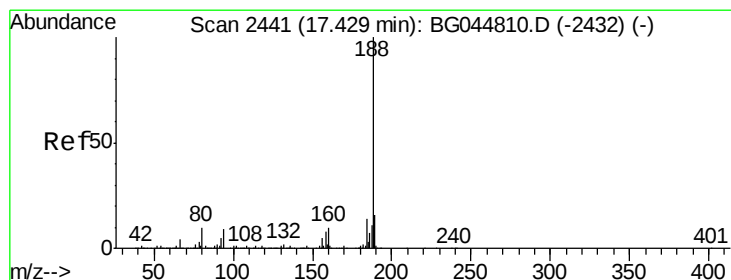
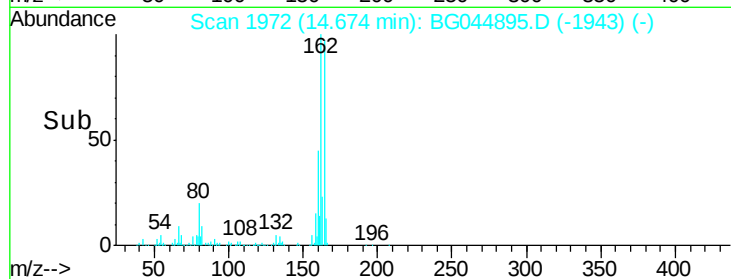
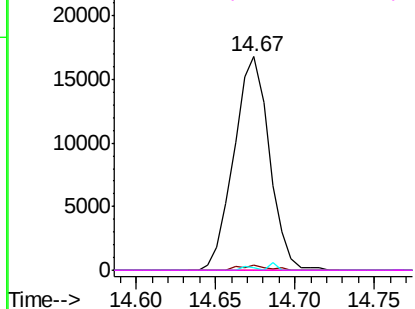
#57  
2,4-Dinitrotoluene  
Concen: 6.017 ng  
RT: 14.67 min Scan# 1972  
Delta R.T. -0.36 min  
Lab File: BG044895.D  
Acq: 19 Mar 2020 12:59

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:165 Resp: 26102  
Ion Ratio Lower Upper  
165 100  
63 2.1 34.6 52.0#  
89 1.5 61.3 91.9#  
182 0.0 2.2 3.2#

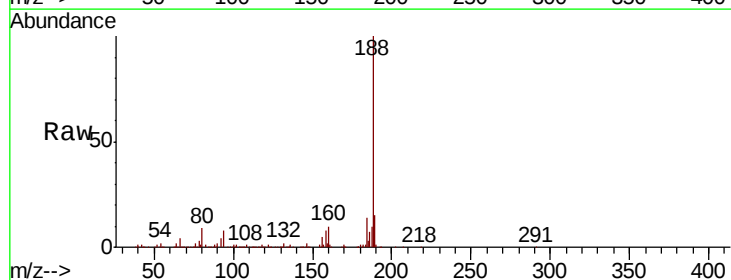


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC  
Ion 182.00 (181.70 to 182.70): E

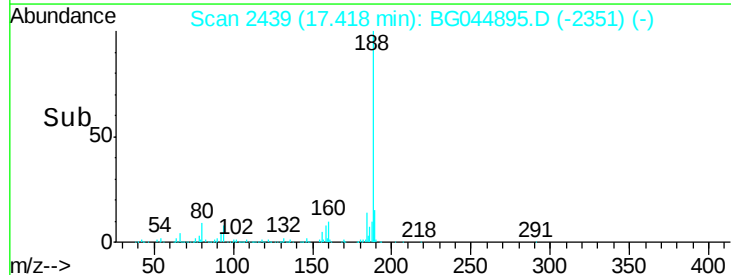
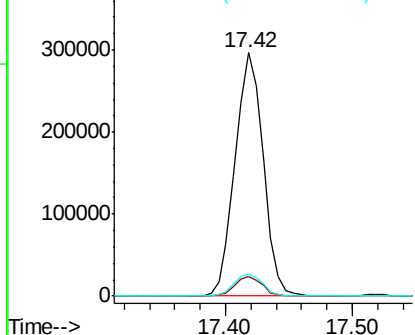


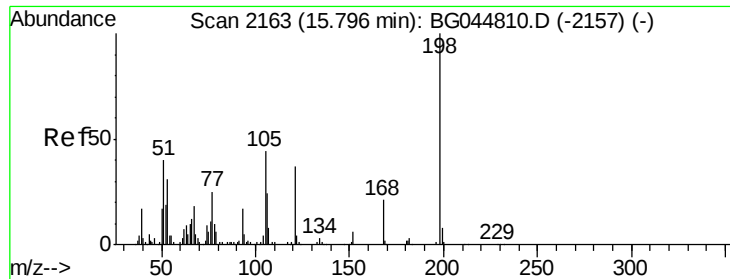
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.42 min Scan# 2439  
Delta R.T. -0.01 min  
Lab File: BG044895.D  
Acq: 19 Mar 2020 12:59

Tgt Ion:188 Resp: 455357  
Ion Ratio Lower Upper  
188 100  
94 8.0 7.3 10.9  
80 8.9 8.0 12.0



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

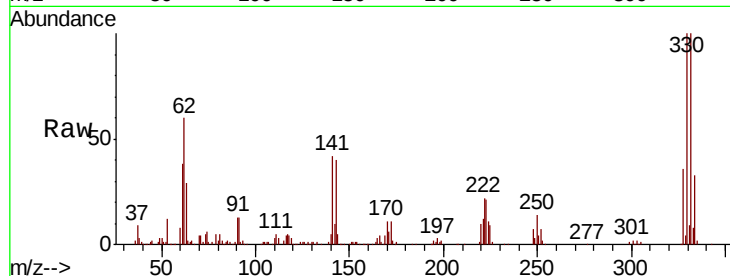




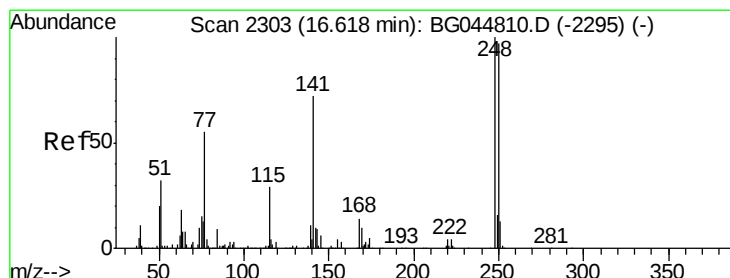
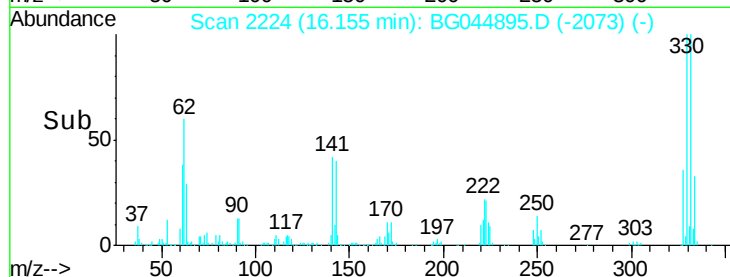
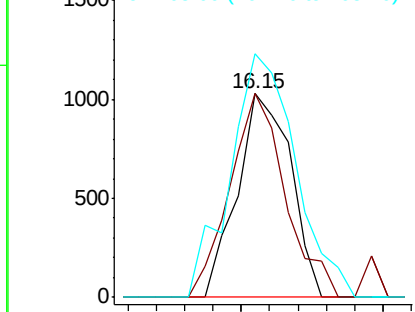
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.256 ng  
 RT: 16.15 min Scan# 2224  
 Delta R.T. 0.36 min  
 Lab File: BG044895.D  
 Acq: 19 Mar 2020 12:59

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:198 Resp: 1347  
 Ion Ratio Lower Upper  
 198 100  
 51 99.9 21.1 61.1#  
 105 119.5 24.5 64.5#

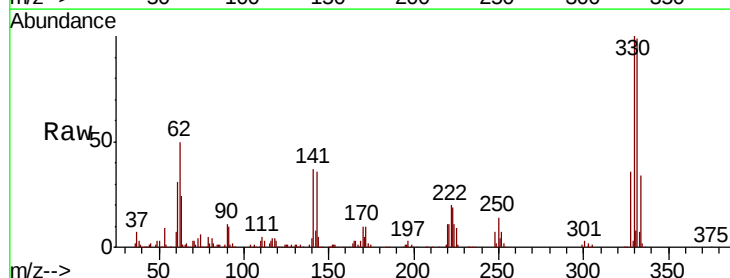


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BG0  
 Ion 105.00 (104.70 to 105.70): E

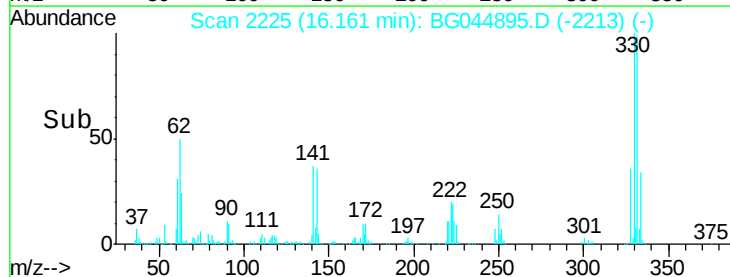
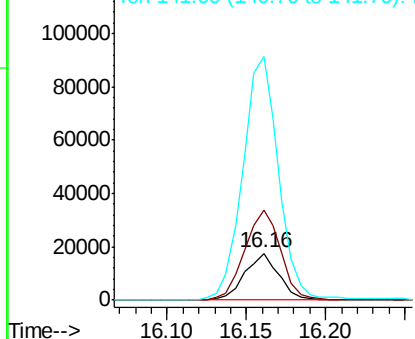


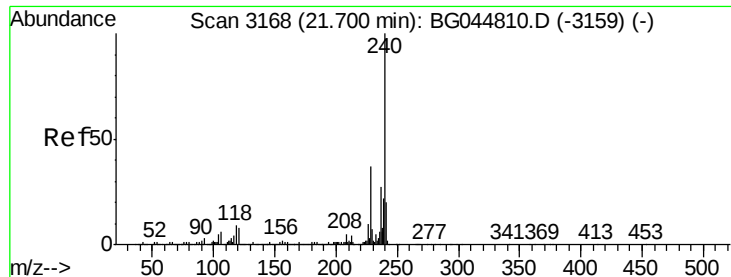
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.588 ng  
 RT: 16.16 min Scan# 2225  
 Delta R.T. -0.46 min  
 Lab File: BG044895.D  
 Acq: 19 Mar 2020 12:59

Tgt Ion:248 Resp: 26115  
 Ion Ratio Lower Upper  
 248 100  
 250 193.1 77.9 116.9#  
 141 521.8 57.5 86.3#



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: 21.68 min Scan# 3165

Delta R.T. -0.02 min

Lab File: BG044895.D

Acq: 19 Mar 2020 12:59

Instrument :

BNA\_G

ClientSampleId :

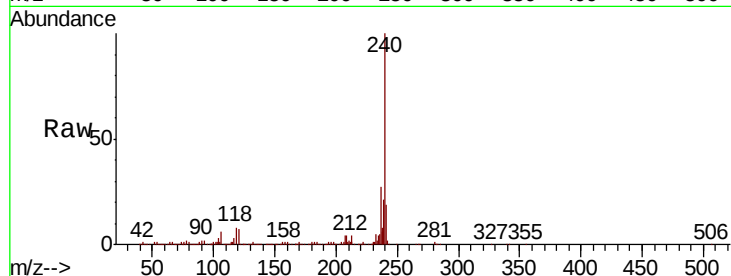
Tot Ion:240 Resp: 480624

Ion Ratio Lower Upper

240 100

120 7.5 6.7 10.1

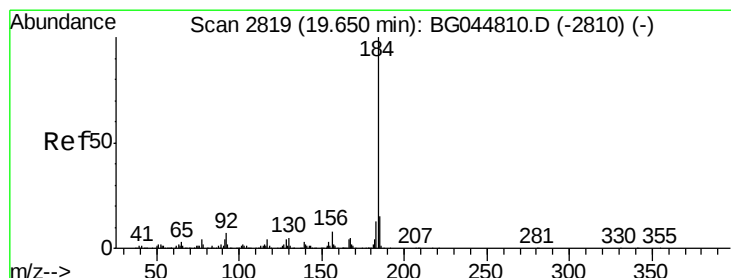
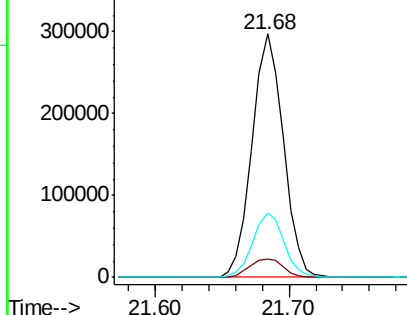
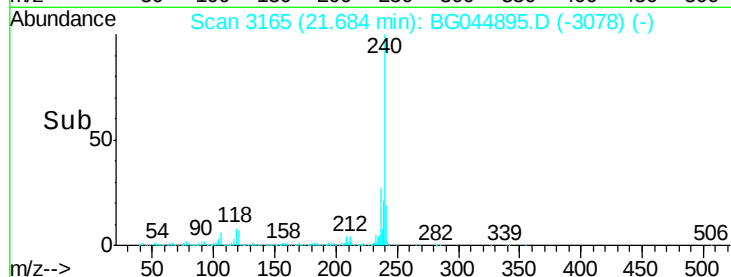
236 26.6 21.5 32.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Benzidine

Concen: 2.646 ng

RT: 20.03 min Scan# 2884

Delta R.T. 0.38 min

Lab File: BG044895.D

Acq: 19 Mar 2020 12:59

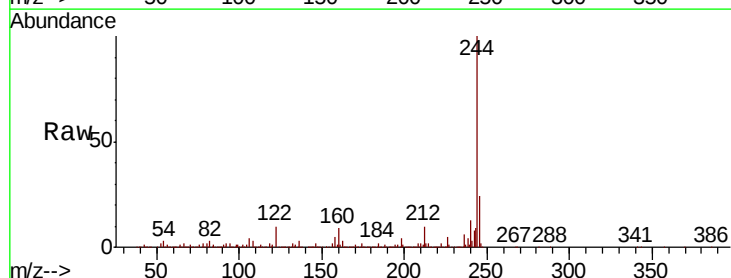
Tgt Ion:184 Resp: 41279

Ion Ratio Lower Upper

184 100

185 16.2 12.2 18.4

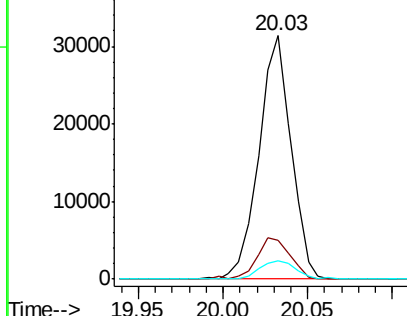
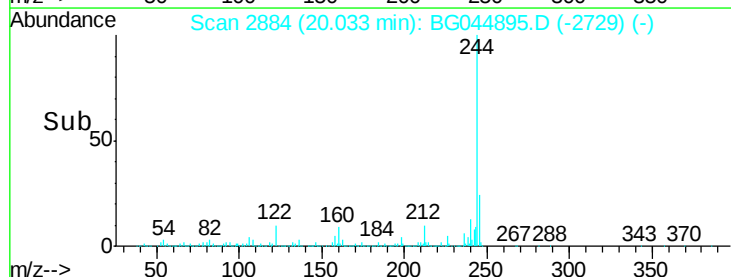
183 7.4 10.7 16.1#

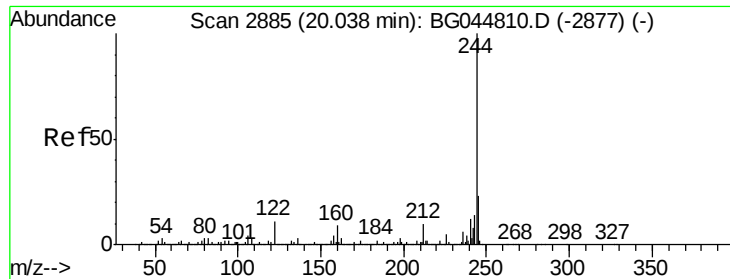


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 86.881 ng

RT: 20.03 min Scan# 2884

Delta R.T. -0.00 min

Lab File: BG044895.D

Acq: 19 Mar 2020 12:59

Instrument :

BNA\_G

ClientSampleId :

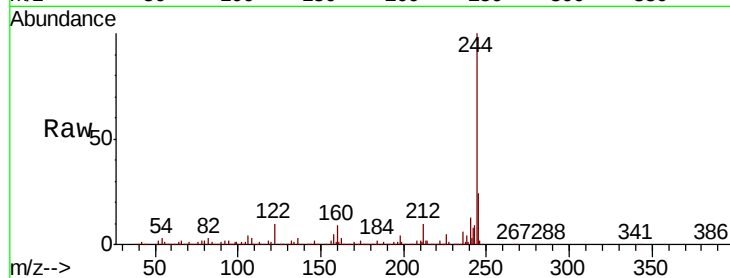
Tot Ion:244 Resp: 2232336

Ion Ratio Lower Upper

244 100

212 10.0 7.7 11.5

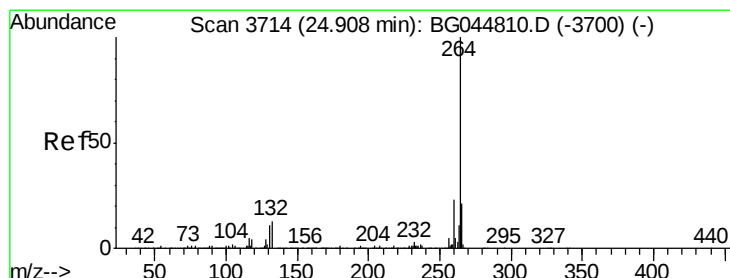
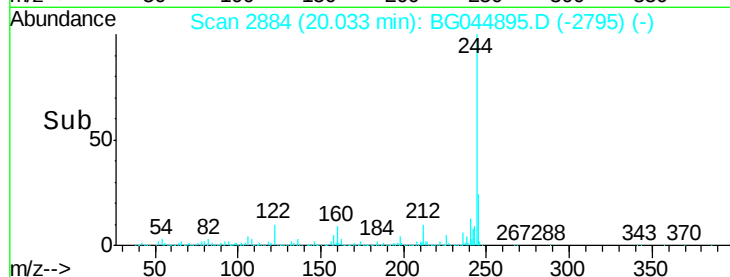
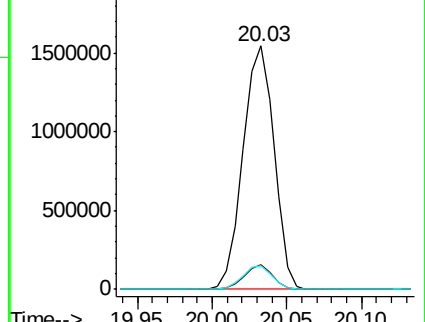
122 9.8 8.6 12.8



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 24.89 min Scan# 3711

Delta R.T. -0.02 min

Lab File: BG044895.D

Acq: 19 Mar 2020 12:59

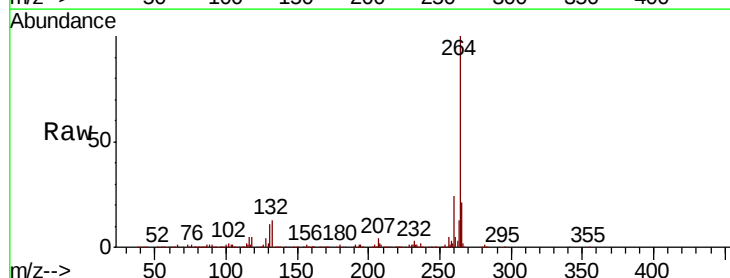
Tgt Ion:264 Resp: 535996

Ion Ratio Lower Upper

264 100

260 23.7 18.1 27.1

265 21.5 17.1 25.7



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

