

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031720\  
 Data File : BG044851.D  
 Acq On : 18 Mar 2020 3:05  
 Operator : CG/JU  
 Sample : L1917-04  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Mar 18 11:47:46 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 | 8.05  | 152  | 94643    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.85 | 136  | 380565   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.68 | 164  | 256538   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.42 | 188  | 560324   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.69 | 240  | 484331   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 24.89 | 264  | 559132   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.62  | 112  | 399645   | 65.73  | ng    | 0.00     |
| 7) Phenol-d6                | 7.20  | 99   | 411324   | 46.56  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.20  | 82   | 771520   | 88.96  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.16 | 330  | 482801   | 143.73 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.30 | 172  | 1604060  | 89.54  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.04 | 244  | 2273316  | 87.80  | ng    | 0.00     |

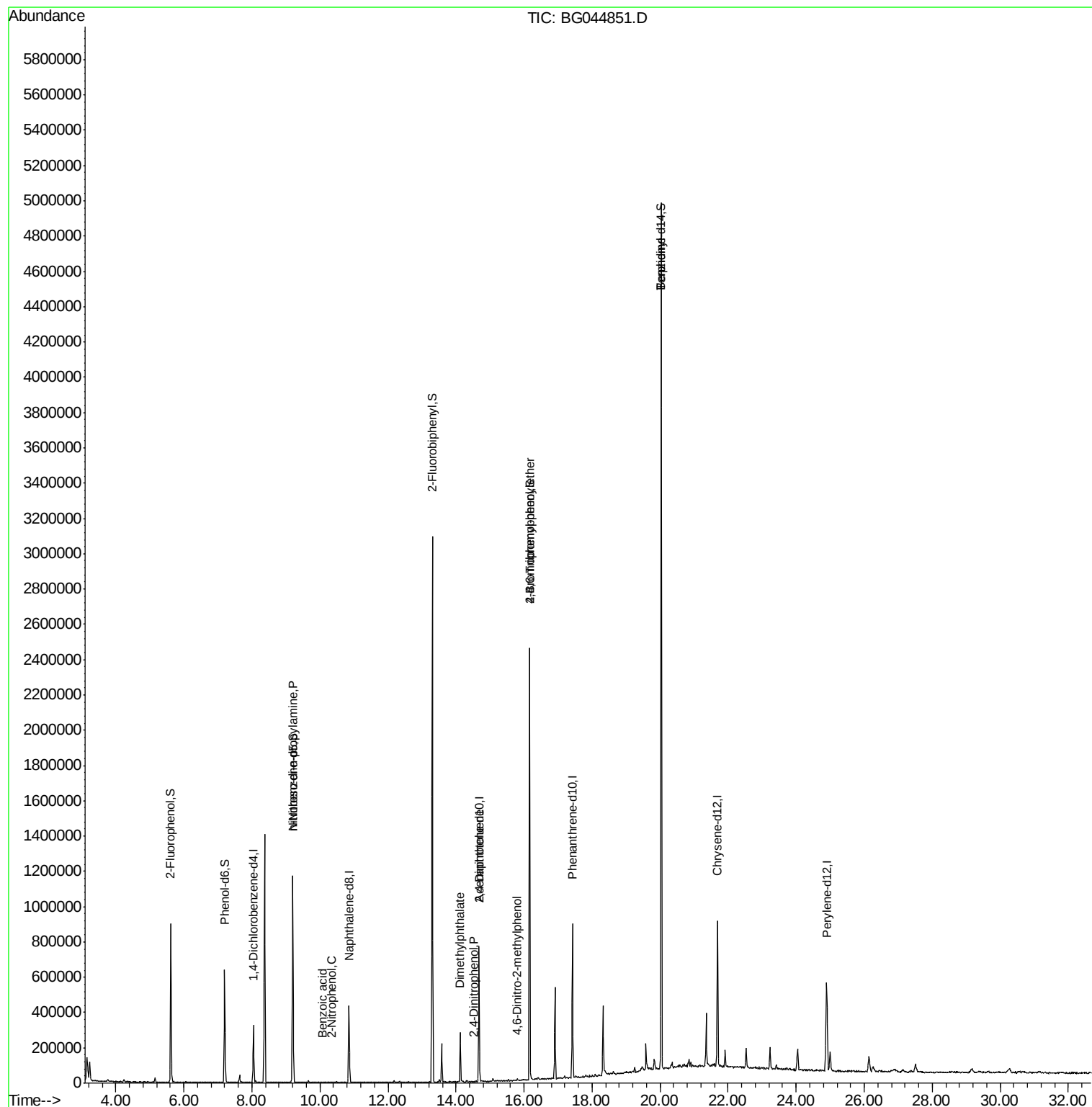
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 7.19  | 77   | 1199     | Below Cal |       | # 6    |
| 19) n-Nitroso-di-n-propylamine | 9.20  | 70   | 105149   | 16.858    | ng    | # 73   |
| 26) 2-Nitrophenol              | 10.34 | 139  | 72       | 5.536     | ng    | # 28   |
| 32) Benzoic acid               | 10.06 | 122  | 53       | 9.680     | ng    | # 1    |
| 50) Dimethylphthalate          | 14.12 | 163  | 188584   | 9.230     | ng    | 99     |
| 54) 2,4-Dinitrophenol          | 14.51 | 184  | 80       | 8.356     | ng    | # 21   |
| 57) 2,4-Dinitrotoluene         | 14.68 | 165  | 32687    | 5.787     | ng    | # 23   |
| 65) 4,6-Dinitro-2-methylphenol | 15.78 | 198  | 78       | 7.753     | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 16.16 | 248  | 33574    | 4.793     | ng    | # 1    |
| 77) Benzidine                  | 20.04 | 184  | 45390    | 2.887     | ng    | # 88   |

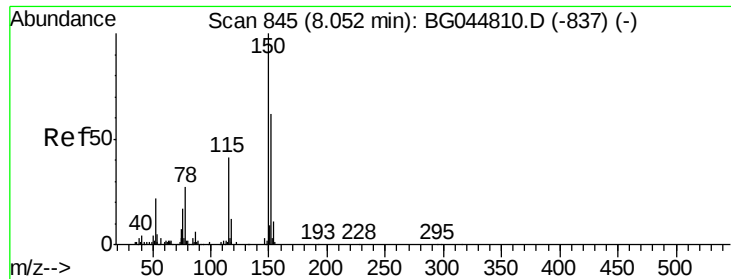
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :

Quant Time: Mar 18 11:47:46 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



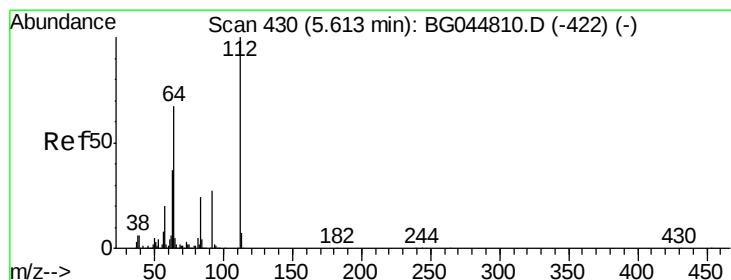
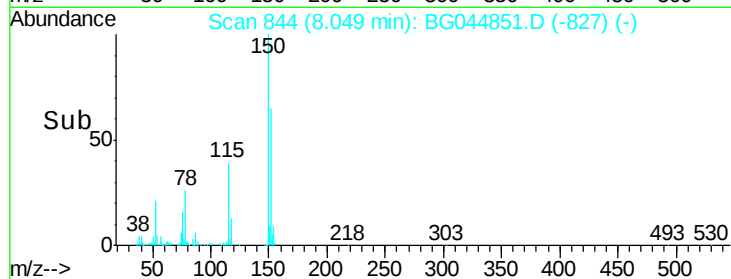
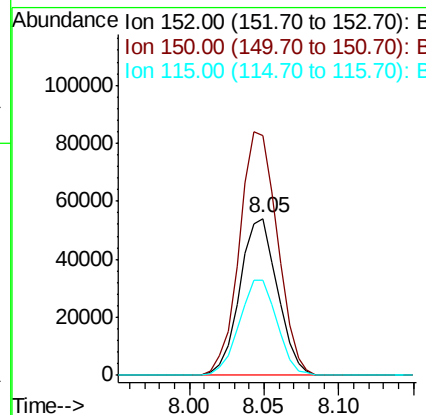
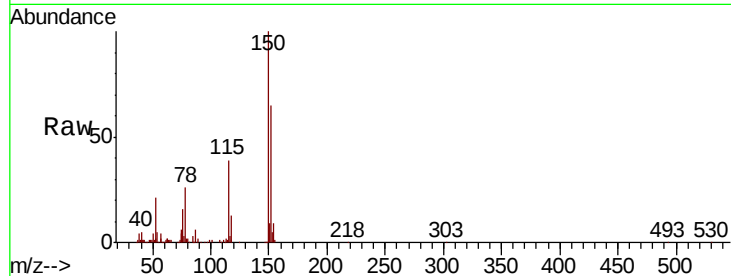


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 844  
Delta R.T. -0.00 min  
Lab File: BG044851.D  
Acq: 18 Mar 2020 3:05

Instrument :  
BNA\_N  
ClientSampleId :

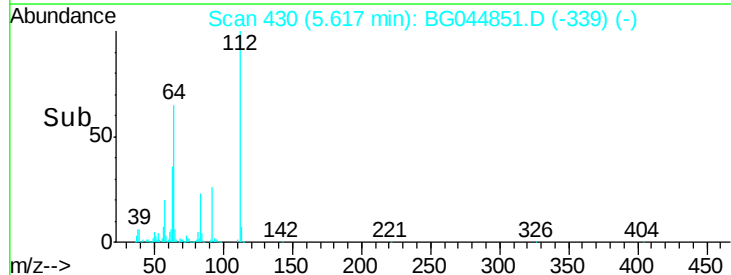
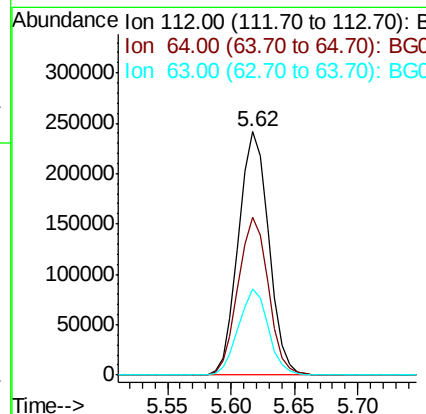
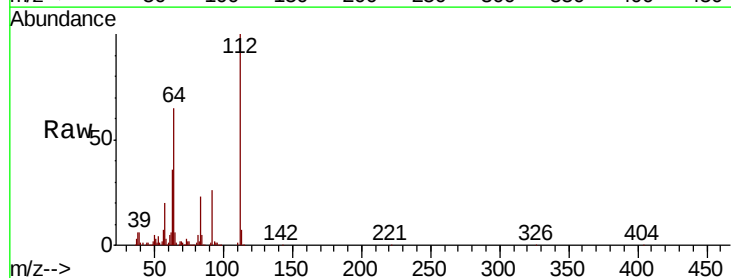
Tot Ion:152 Resp: 94643  
Ion Ratio Lower Upper  
152 100  
150 152.9 128.8 193.2  
115 60.4 52.6 79.0

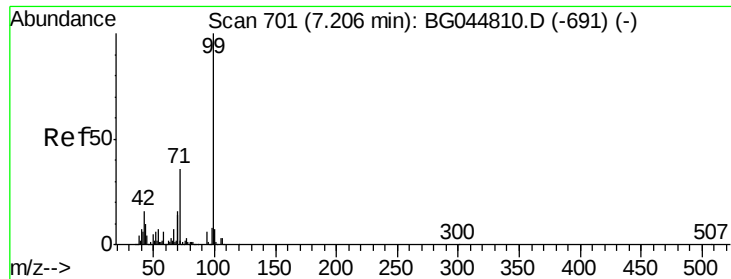


#5

2-Fluorophenol  
Concen: 65.734 ng  
RT: 5.62 min Scan# 430  
Delta R.T. 0.00 min  
Lab File: BG044851.D  
Acq: 18 Mar 2020 3:05

Tgt Ion:112 Resp: 399645  
Ion Ratio Lower Upper  
112 100  
64 65.1 53.4 80.2  
63 35.6 29.4 44.2





#7

Phenol-d6

Concen: 46.564 ng

RT: 7.20 min Scan# 699

Delta R.T. -0.01 min

Lab File: BG044851.D

Acq: 18 Mar 2020 3:05

Instrument :

BNA\_N

ClientSampleId :

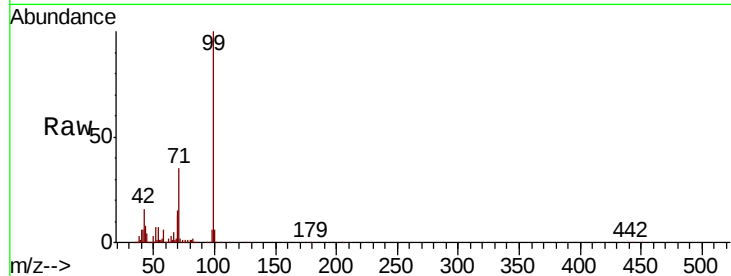
Tot Ion: 99 Resp: 411324

Ion Ratio Lower Upper

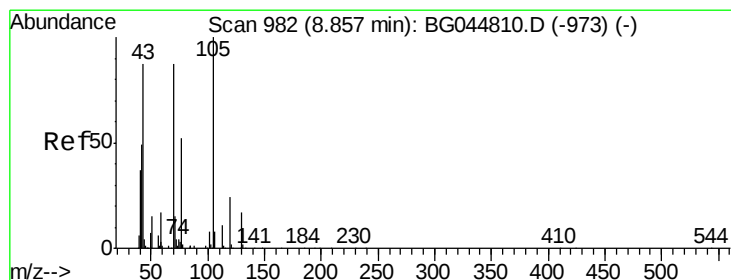
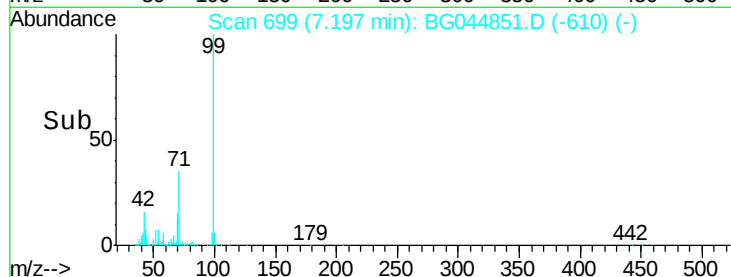
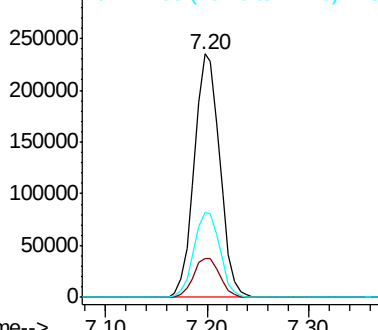
99 100

42 15.7 12.6 19.0

71 34.9 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



#19

n-Nitroso-di-n-propylamine

Concen: 16.858 ng

RT: 9.20 min Scan# 1040

Delta R.T. 0.34 min

Lab File: BG044851.D

Acq: 18 Mar 2020 3:05

Tgt Ion: 70 Resp: 105149

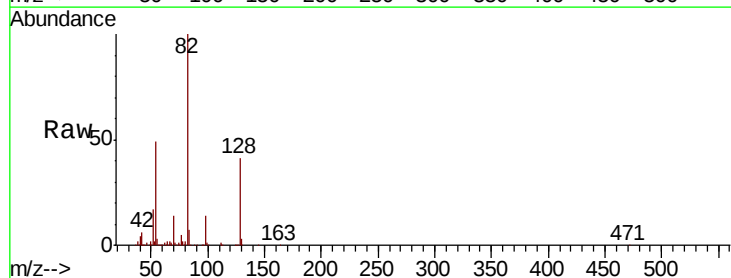
Ion Ratio Lower Upper

70 100

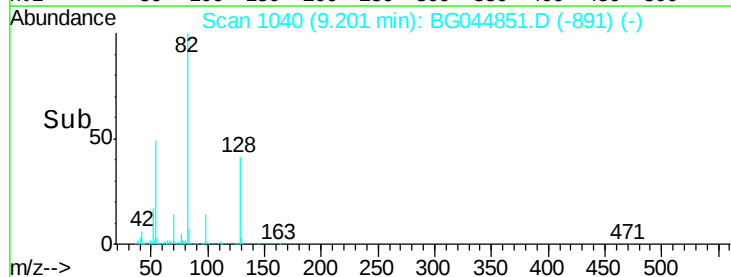
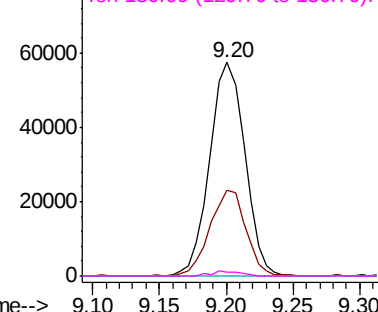
42 40.4 45.7 68.5#

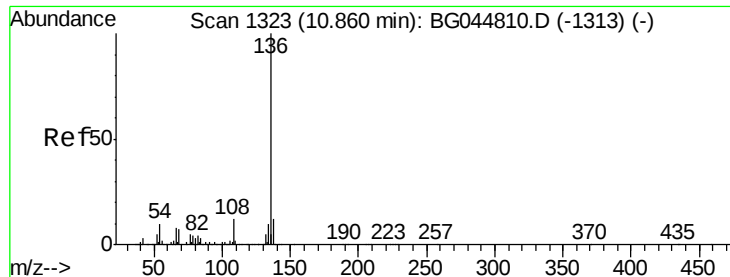
101 0.0 7.4 11.2#

130 1.7 15.9 23.9#



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

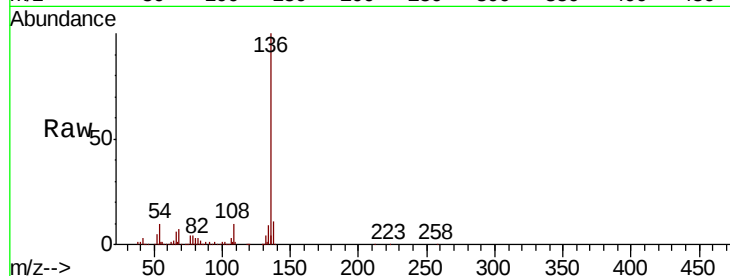




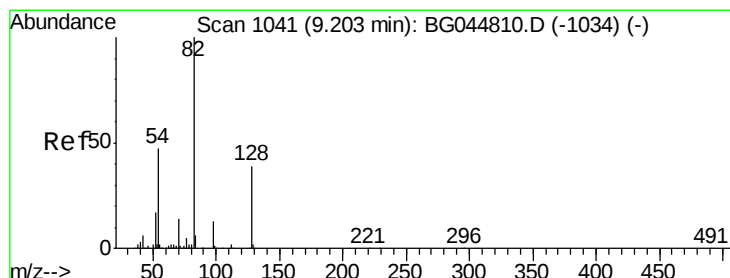
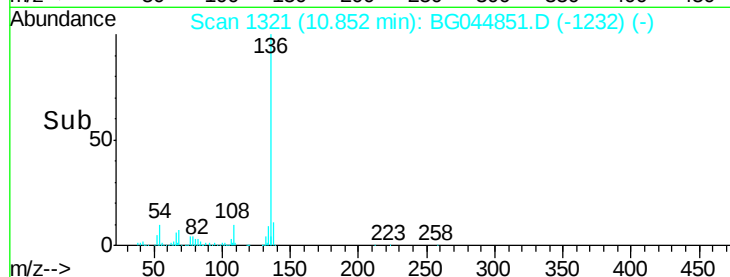
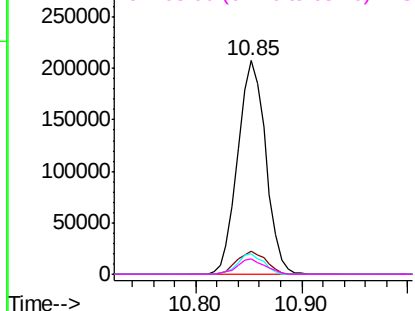
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.85 min Scan# 1321  
Delta R.T. -0.01 min  
Lab File: BG044851.D  
Acq: 18 Mar 2020 3:05

Instrument :  
BNA\_N  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 380565   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.7  | 9.8 14.6 |
| 54          | 9.8   | 7.9 11.9 |
| 68          | 6.9   | 5.4 8.0  |

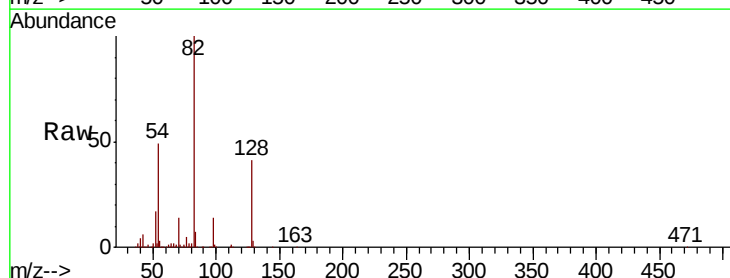


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

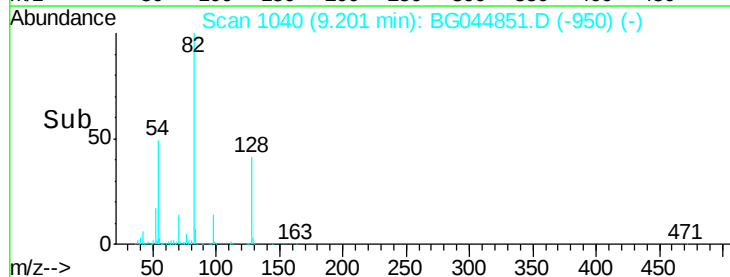
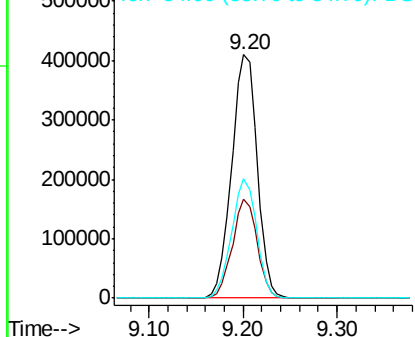


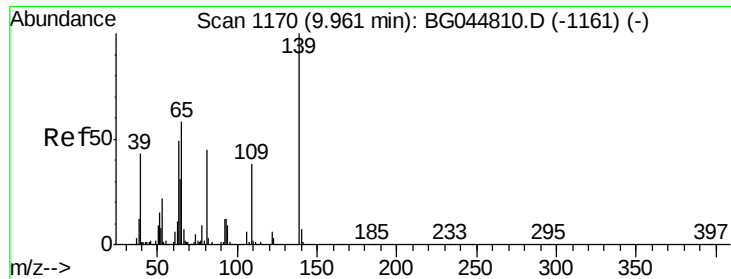
#23  
Nitrobenzene-d5  
Concen: 88.961 ng  
RT: 9.20 min Scan# 1040  
Delta R.T. -0.00 min  
Lab File: BG044851.D  
Acq: 18 Mar 2020 3:05

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 771520    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 40.6  | 30.6 46.0 |
| 54          | 49.0  | 37.1 55.7 |



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BGC

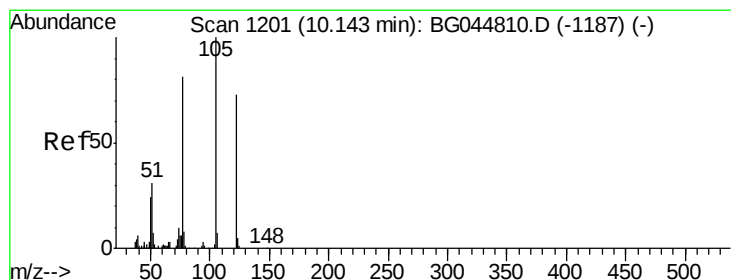
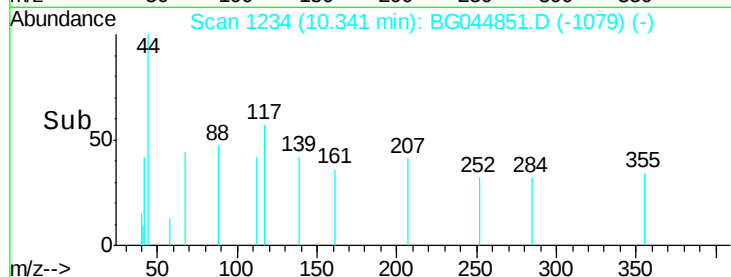
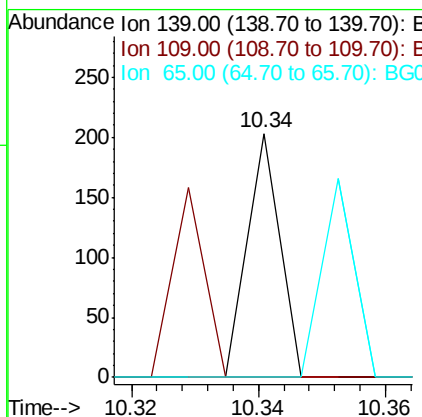
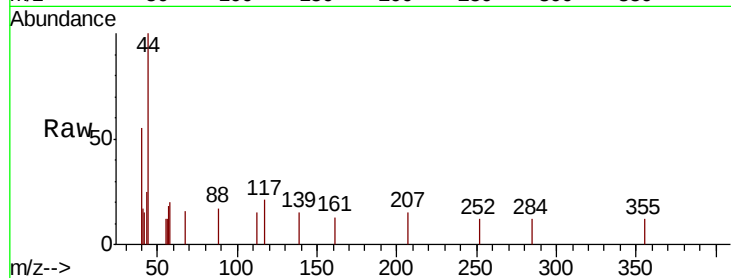




#26  
2-Nitrophenol  
Concen: 5.536 ng  
RT: 10.34 min Scan# 1234  
Delta R.T. 0.38 min  
Lab File: BG044851.D  
Acq: 18 Mar 2020 3:05

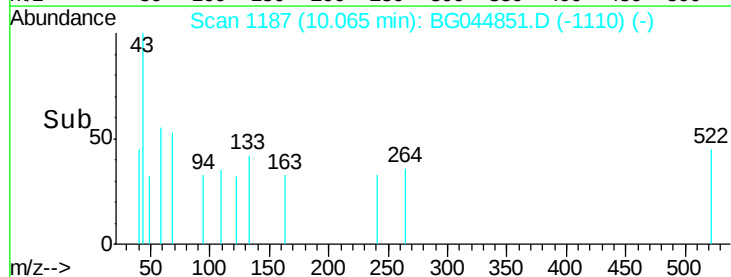
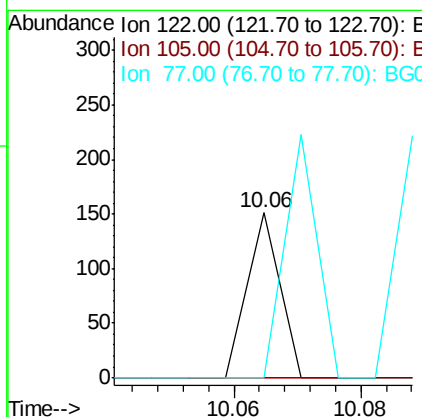
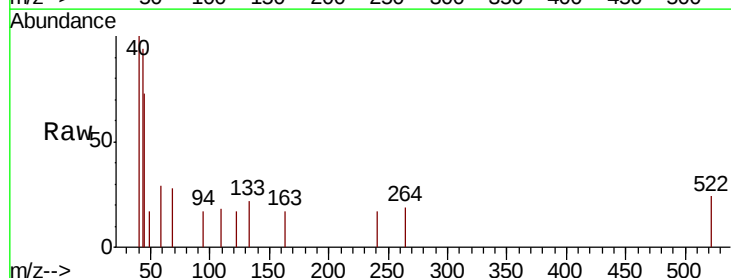
Instrument :  
BNA\_N  
ClientSampleId :

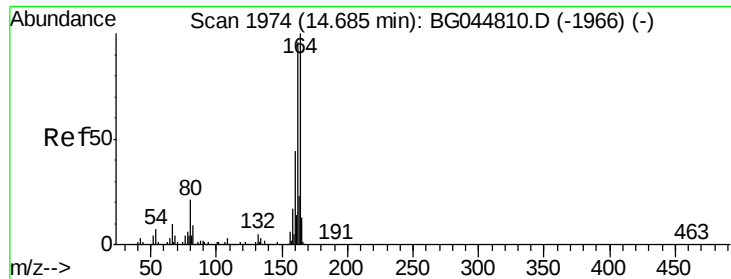
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 0.0   | 30.2  | 45.4# |
| 65      | 0.0   | 46.3  | 69.5# |



#32  
Benzoic acid  
Concen: 9.680 ng  
RT: 10.06 min Scan# 1187  
Delta R.T. -0.08 min  
Lab File: BG044851.D  
Acq: 18 Mar 2020 3:05

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 109.1 | 149.1# |
| 77      | 0.0   | 85.3  | 125.3# |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1972

Delta R.T. -0.01 min

Lab File: BG044851.D

Acq: 18 Mar 2020 3:05

Instrument :

BNA\_N

ClientSampleId :

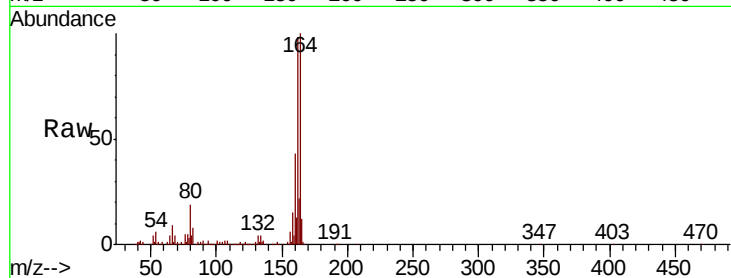
Tot Ion:164 Resp: 256538

Ion Ratio Lower Upper

164 100

162 98.0 76.7 115.1

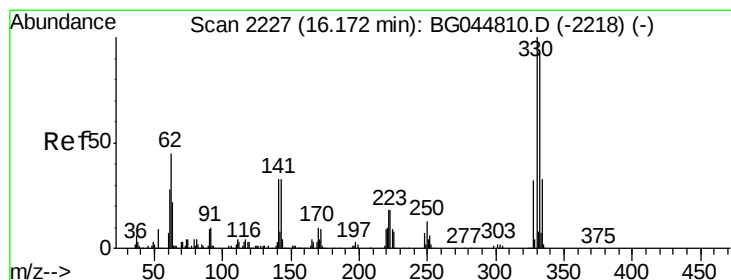
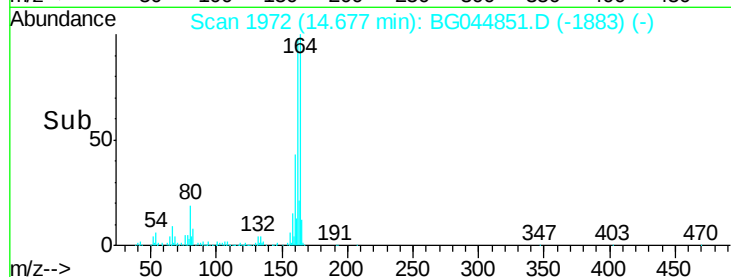
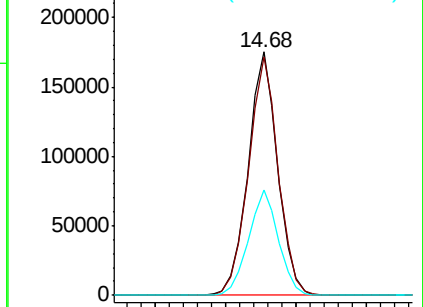
160 43.1 35.0 52.4



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: 143.735 ng

RT: 16.16 min Scan# 2225

Delta R.T. -0.01 min

Lab File: BG044851.D

Acq: 18 Mar 2020 3:05

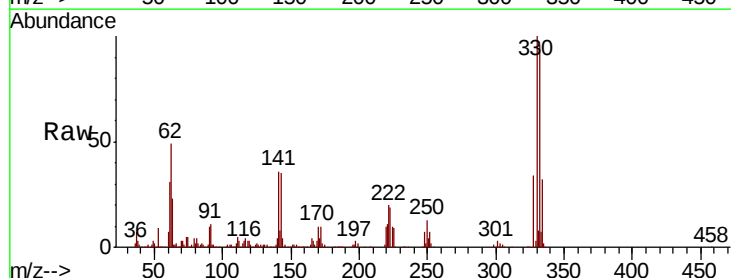
Tgt Ion:330 Resp: 482801

Ion Ratio Lower Upper

330 100

332 96.5 77.8 116.6

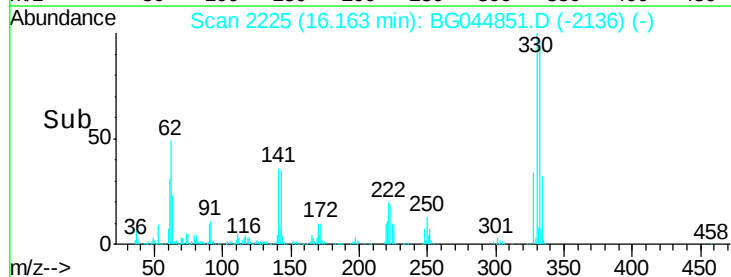
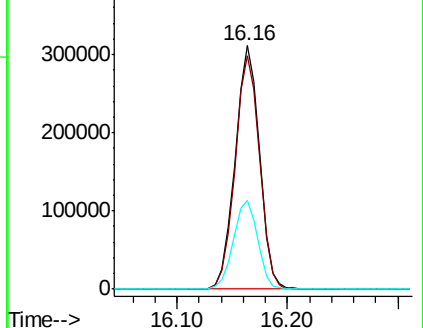
141 36.4 29.5 44.3

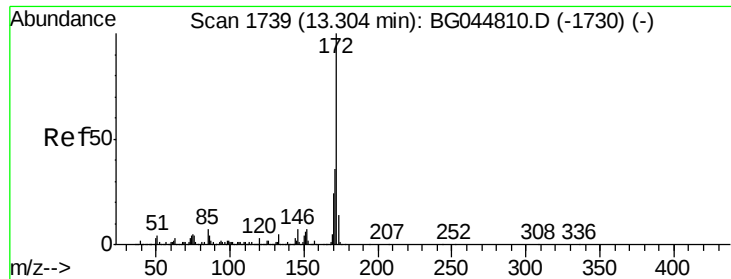


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

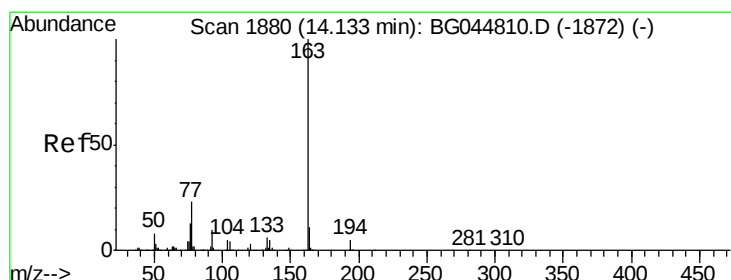
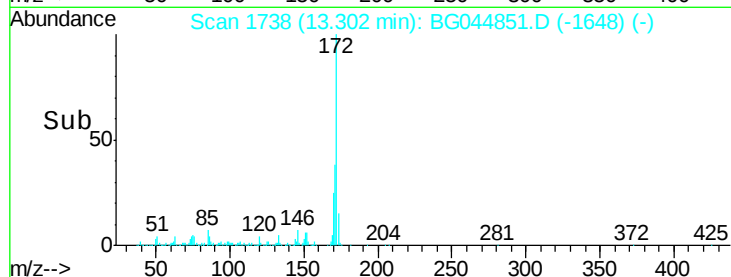
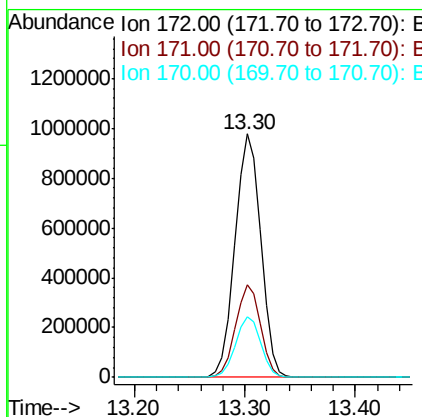
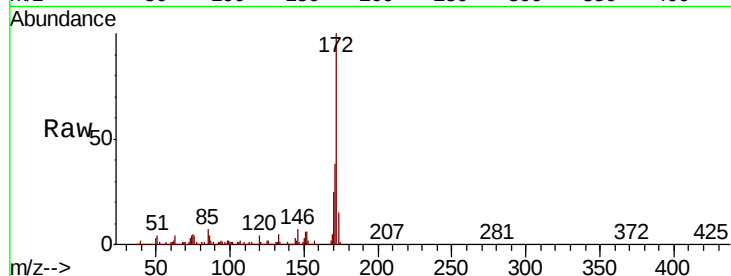




#45  
2-Fluorobiphenyl  
Concen: 89.541 ng  
RT: 13.30 min Scan# 1738  
Delta R.T. -0.00 min  
Lab File: BG044851.D  
Acq: 18 Mar 2020 3:05

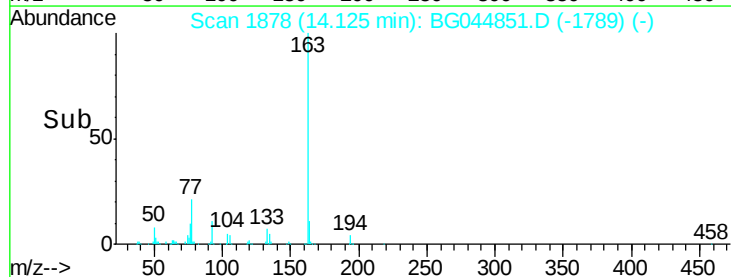
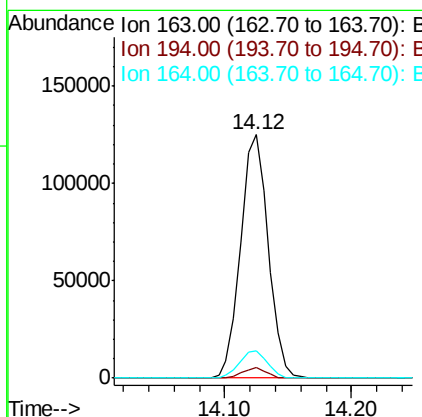
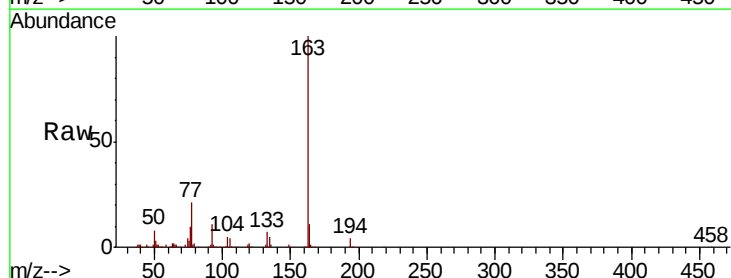
Instrument :  
BNA\_N  
ClientSampleId :

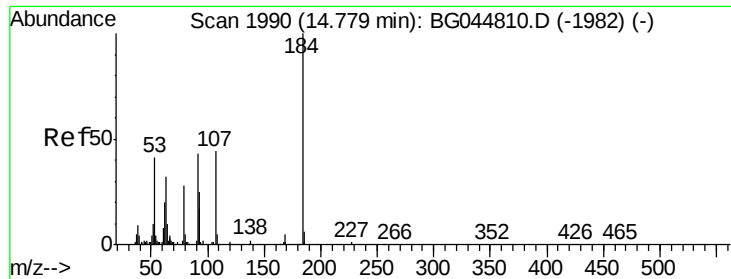
Tot Ion:172 Resp: 1604060  
Ion Ratio Lower Upper  
172 100  
171 38.1 28.7 43.1  
170 25.1 19.0 28.6



#50  
Dimethylphthalate  
Concen: 9.230 ng  
RT: 14.12 min Scan# 1878  
Delta R.T. -0.01 min  
Lab File: BG044851.D  
Acq: 18 Mar 2020 3:05

Tgt Ion:163 Resp: 188584  
Ion Ratio Lower Upper  
163 100  
194 4.2 3.7 5.5  
164 11.2 9.1 13.7

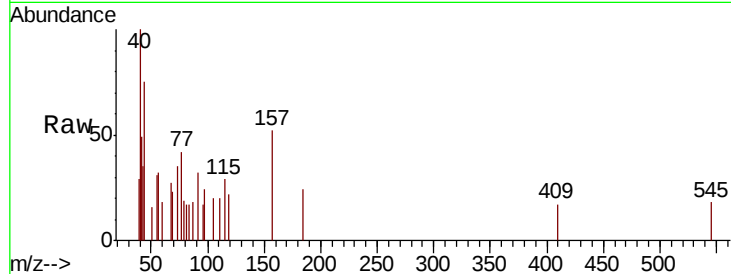




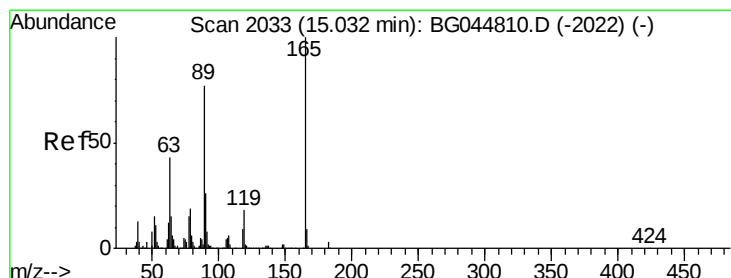
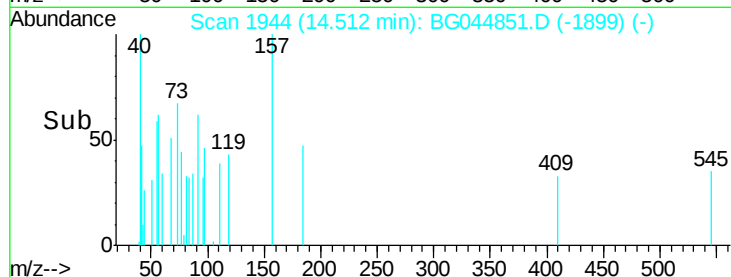
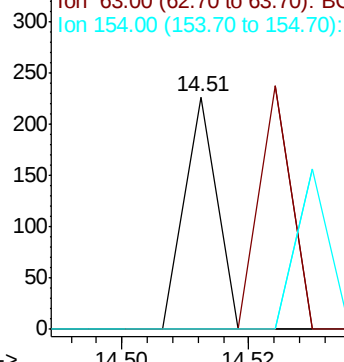
#54  
2,4-Dinitrophenol  
Concen: 8.356 ng  
RT: 14.51 min Scan# 1944  
Delta R.T. -0.27 min  
Lab File: BG044851.D  
Acq: 18 Mar 2020 3:05

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:184 Resp: 80  
Ion Ratio Lower Upper  
184 100  
63 0.0 45.5 68.3#  
154 0.0 49.1 73.7#

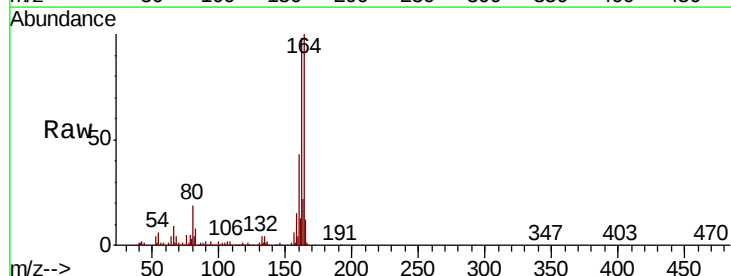


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 154.00 (153.70 to 154.70): E

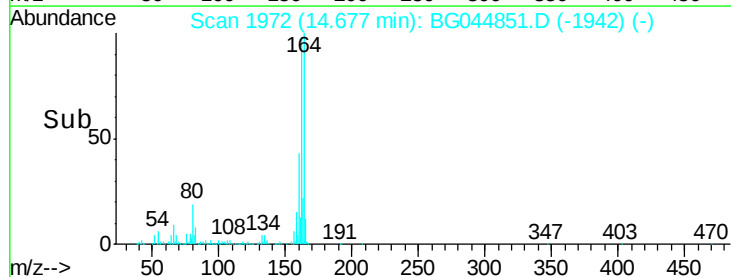
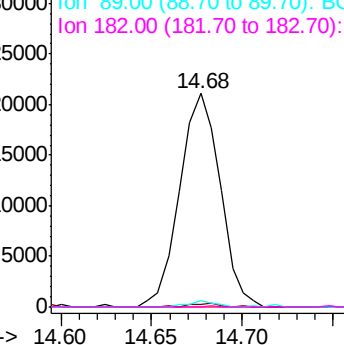


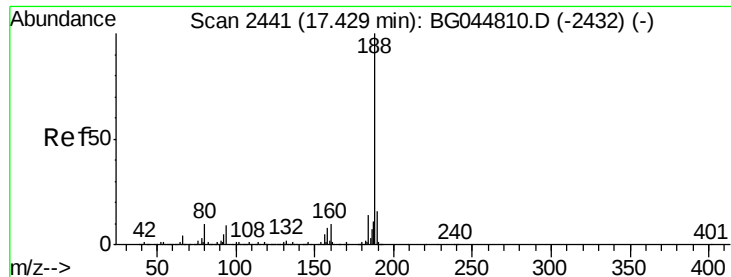
#57  
2,4-Dinitrotoluene  
Concen: 5.787 ng  
RT: 14.68 min Scan# 1972  
Delta R.T. -0.35 min  
Lab File: BG044851.D  
Acq: 18 Mar 2020 3:05

Tgt Ion:165 Resp: 32687  
Ion Ratio Lower Upper  
165 100  
63 1.0 34.6 52.0#  
89 2.8 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: BG044851.D

Acq: 18 Mar 2020 3:05

Instrument :

BNA\_N

ClientSampled :

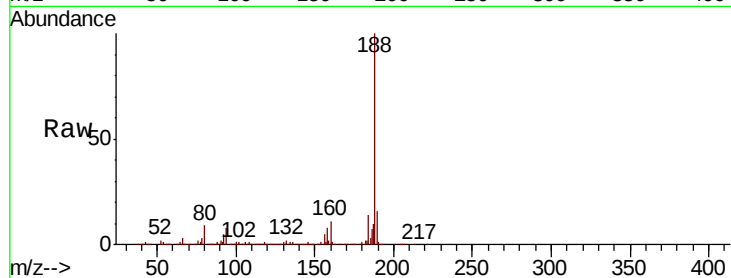
Tot Ion:188 Resp: 560324

Ion Ratio Lower Upper

188 100

94 8.3 7.3 10.9

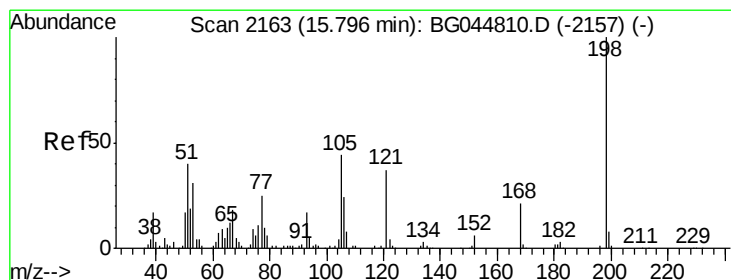
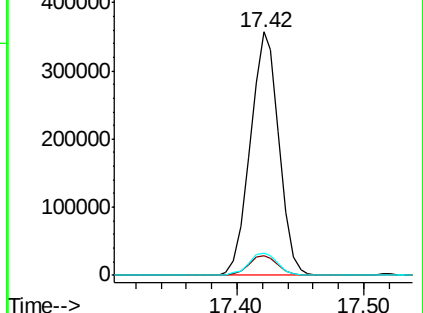
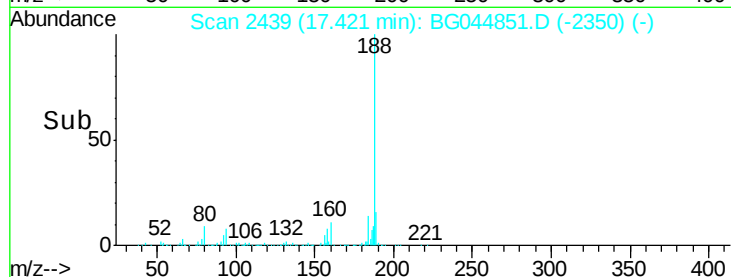
80 9.3 8.0 12.0



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#65

4,6-Dinitro-2-methylphenol

Concen: 7.753 ng

RT: 15.78 min Scan# 2160

Delta R.T. -0.01 min

Lab File: BG044851.D

Acq: 18 Mar 2020 3:05

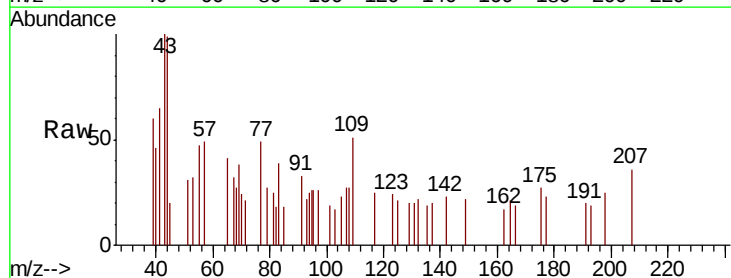
Tgt Ion:198 Resp: 78

Ion Ratio Lower Upper

198 100

51 124.9 21.1 61.1#

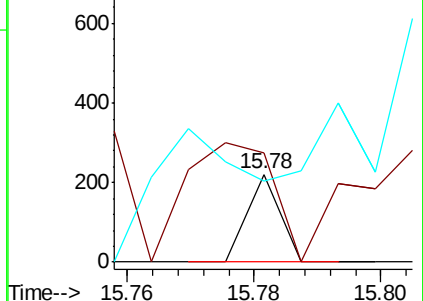
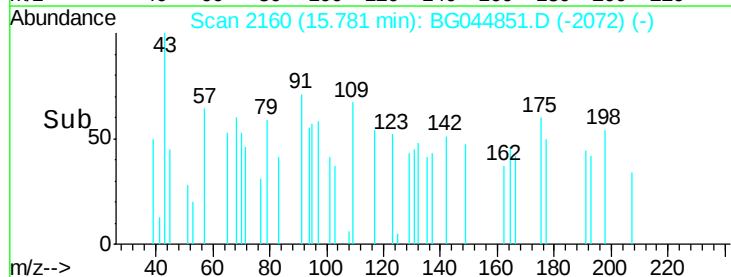
105 91.9 24.5 64.5#

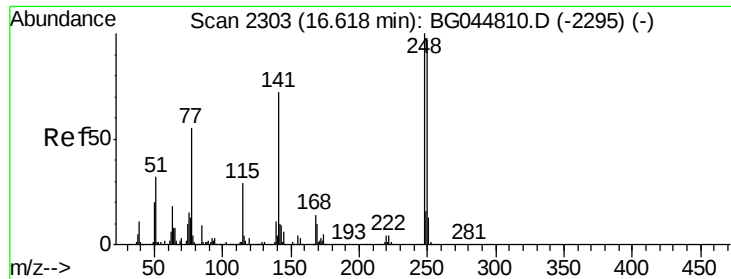


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG

Ion 105.00 (104.70 to 105.70): E

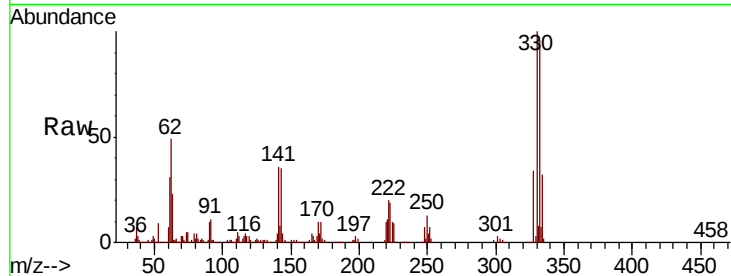




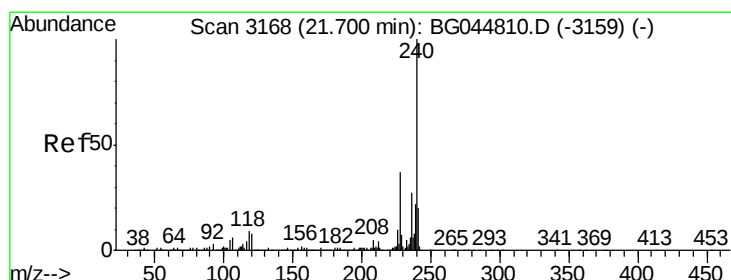
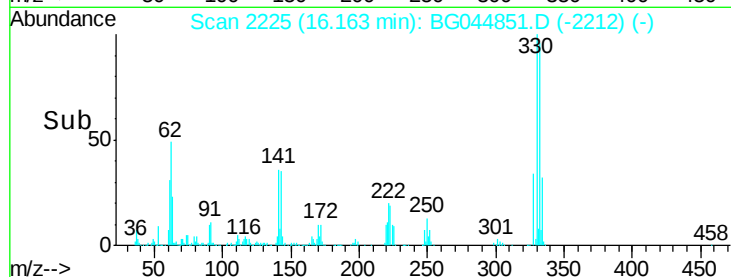
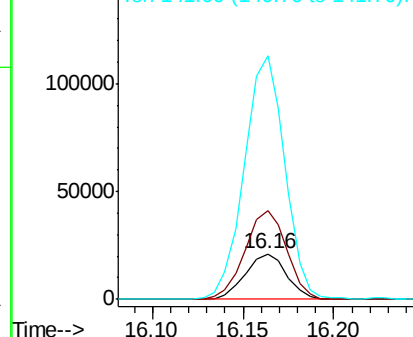
#67  
4-Bromophenyl-phenylether  
Concen: 4.793 ng  
RT: 16.16 min Scan# 2225  
Delta R.T. -0.45 min  
Lab File: BG044851.D  
Acq: 18 Mar 2020 3:05

Instrument :  
BNA\_N  
ClientSampled :

Tot Ion:248 Resp: 33574  
Ion Ratio Lower Upper  
248 100  
250 194.6 77.9 116.9#  
141 535.8 57.5 86.3#

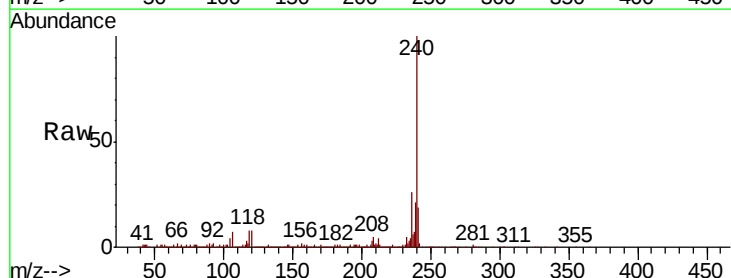


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

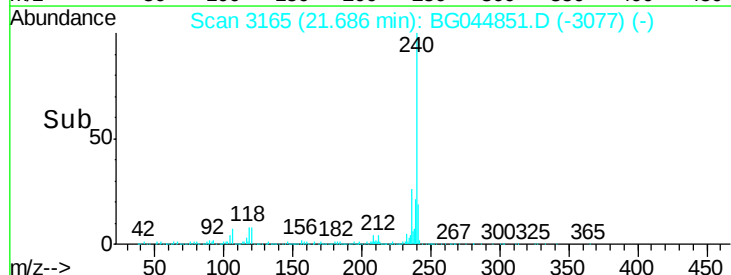
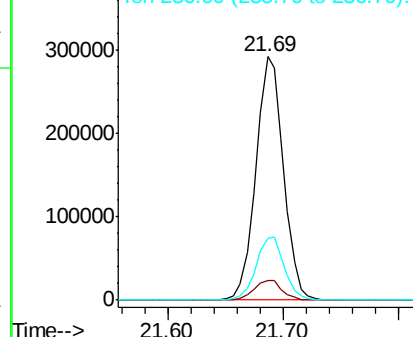


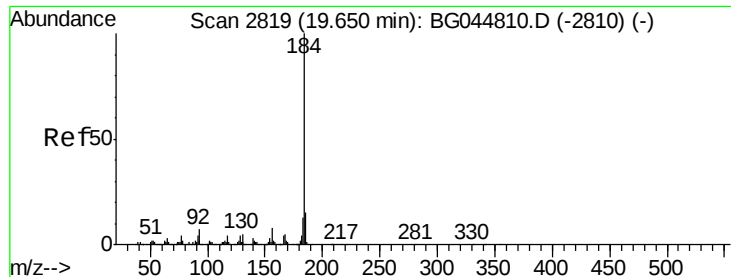
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.69 min Scan# 3165  
Delta R.T. -0.01 min  
Lab File: BG044851.D  
Acq: 18 Mar 2020 3:05

Tgt Ion:240 Resp: 484331  
Ion Ratio Lower Upper  
240 100  
120 8.2 6.7 10.1  
236 25.6 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: 2.887 ng

RT: 20.04 min Scan# 2884

Delta R.T. 0.39 min

Lab File: BG044851.D

Acq: 18 Mar 2020 3:05

Instrument :

BNA\_N

ClientSampleId :

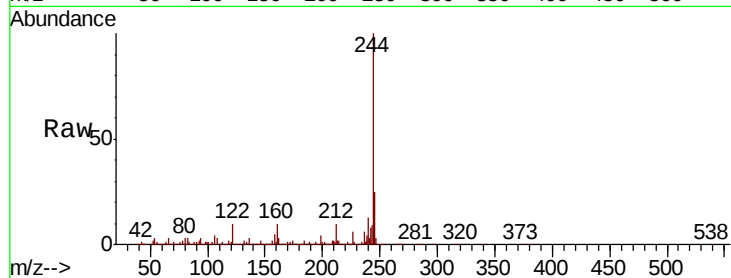
Tot Ion:184 Resp: 45390

Ion Ratio Lower Upper

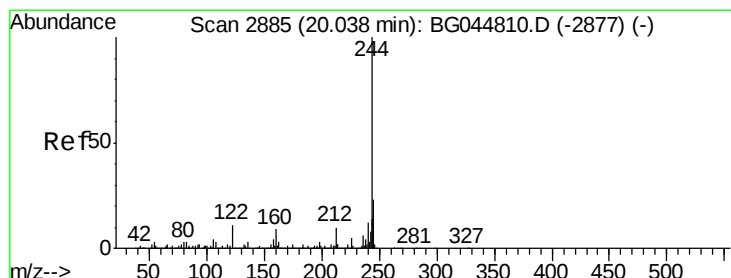
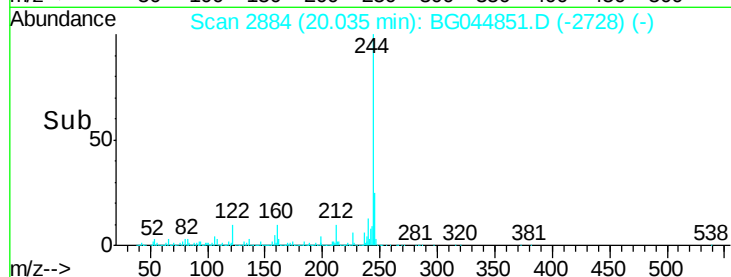
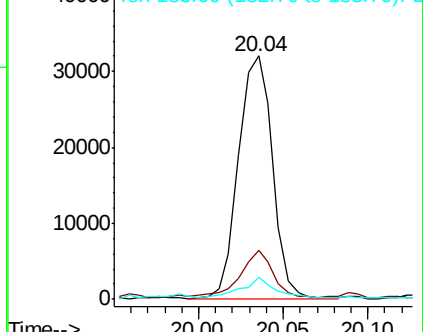
184 100

185 20.4 12.2 18.4#

183 8.9 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: 87.798 ng

RT: 20.04 min Scan# 2884

Delta R.T. -0.00 min

Lab File: BG044851.D

Acq: 18 Mar 2020 3:05

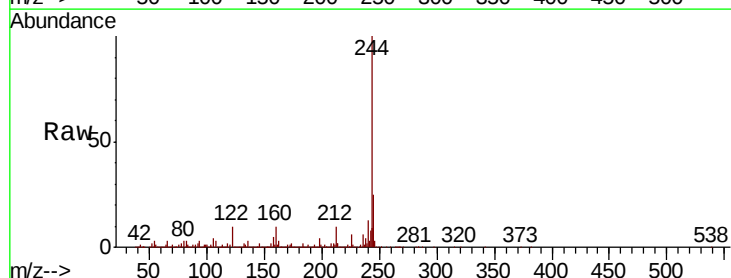
Tgt Ion:244 Resp: 2273316

Ion Ratio Lower Upper

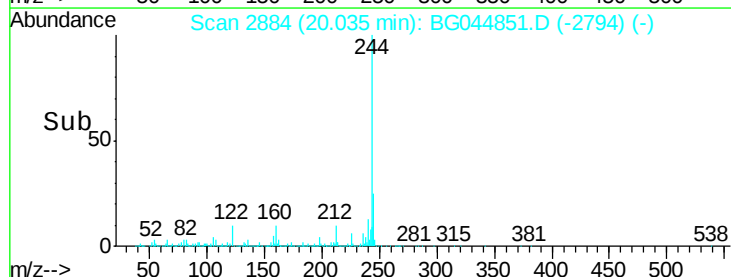
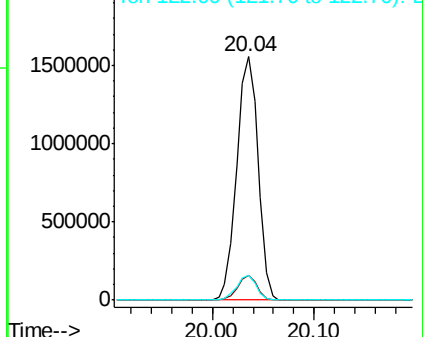
244 100

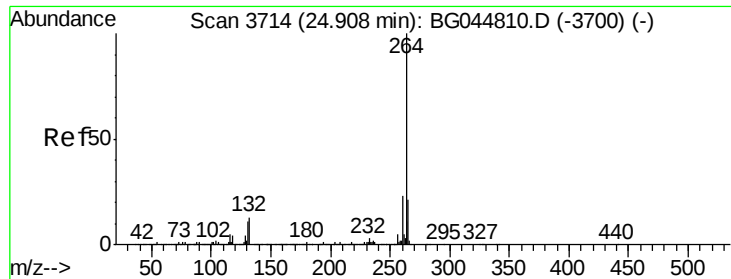
212 10.0 7.7 11.5

122 10.4 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

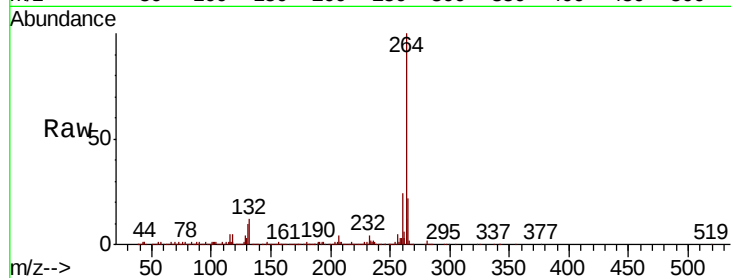




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.89 min Scan# 3711  
Delta R.T. -0.01 min  
Lab File: BG044851.D  
Acq: 18 Mar 2020 3:05

Instrument :  
BNA\_N  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 18.1  | 27.1  |
| 265     | 22.2  | 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

