

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG022520\  
 Data File : BG044596.D  
 Acq On : 26 Feb 2020 3:51  
 Operator : CG/JU  
 Sample : PB127049BL  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 26 05:07:01 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG022420.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 24 16:11:23 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.87  | 152  | 61916    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.67 | 136  | 240117   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.52 | 164  | 159442   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.26 | 188  | 382638   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.50 | 240  | 390362   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 24.56 | 264  | 405075   | 20.00 | ng    | 0.00     |

|                             |       |     |         |        |    |      |
|-----------------------------|-------|-----|---------|--------|----|------|
| System Monitoring Compounds |       |     |         |        |    |      |
| 5) 2-Fluorophenol           | 5.45  | 112 | 226751  | 58.76  | ng | 0.00 |
| 7) Phenol-d6                | 7.05  | 99  | 165751  | 31.38  | ng | 0.00 |
| 23) Nitrobenzene-d5         | 9.03  | 82  | 441826  | 94.80  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 16.01 | 330 | 326214  | 144.29 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 13.14 | 172 | 1061834 | 95.37  | ng | 0.00 |
| 79) Terphenyl-d14           | 19.88 | 244 | 1833098 | 88.90  | ng | 0.00 |

|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.32  | 88  | 212   | 0.126  | ng | # 1  |
| 4) n-Nitrosodimethylamine      | 3.64  | 42  | 62    | 0.035  | ng | # 1  |
| 9) Benzaldehyde                | 7.05  | 77  | 290   | 0.093  | ng | # 1  |
| 12) 1,3-Dichlorobenzene        | 7.76  | 146 | 443   | 0.088  | ng | # 27 |
| 13) 1,4-Dichlorobenzene        | 7.91  | 146 | 421   | 0.083  | ng | # 68 |
| 14) 1,2-Dichlorobenzene        | 8.22  | 146 | 216   | 0.045  | ng | # 12 |
| 15) Benzyl Alcohol             | 8.20  | 79  | 7152  | 2.008  | ng | # 44 |
| 19) n-Nitroso-di-n-propylamine | 9.03  | 70  | 56981 | 16.782 | ng | # 78 |
| 22) Acetophenone               | 8.70  | 105 | 3623  | 0.601  | ng | # 97 |
| 24) Nitrobenzene               | 9.02  | 77  | 1296  | 0.287  | ng | # 31 |
| 25) Isophorone                 | 9.63  | 82  | 250   | 0.029  | ng | # 65 |
| 31) Naphthalene                | 10.73 | 128 | 613   | 0.047  | ng | # 68 |
| 34) Hexachlorobutadiene        | 11.02 | 225 | 58    | 0.019  | ng | # 18 |
| 37) 2-Methylnaphthalene        | 12.37 | 142 | 130   | 0.013  | ng | # 15 |
| 38) 1-Methylnaphthalene        | 12.37 | 142 | 130   | 0.014  | ng | # 6  |
| 46) 1,1'-Biphenyl              | 13.35 | 154 | 2553  | 0.193  | ng | # 99 |
| 48) 2-Nitroaniline             | 13.14 | 65  | 1543  | 0.537  | ng | # 5  |
| 51) 2,6-Dinitrotoluene         | 14.52 | 165 | 21185 | 7.464  | ng | # 32 |
| 52) Acenaphthene               | 14.52 | 154 | 467   | 0.048  | ng | # 5  |
| 57) 2,4-Dinitrotoluene         | 14.52 | 165 | 21185 | 5.309  | ng | # 30 |
| 58) Fluorene                   | 16.01 | 166 | 13514 | 1.142  | ng | # 92 |
| 63) Azobenzene                 | 16.00 | 77  | 1574  | 0.145  | ng | # 16 |
| 65) 4,6-Dinitro-2-methylphenol | 16.01 | 198 | 801   | 0.338  | ng | # 1  |
| 66) n-Nitrosodiphenylamine     | 16.00 | 169 | 10995 | 0.921  | ng | # 42 |
| 67) 4-Bromophenyl-phenylether  | 16.01 | 248 | 22389 | 4.714  | ng | # 1  |
| 71) Phenanthrene               | 17.30 | 178 | 81    | 0.004  | ng | # 58 |
| 72) Anthracene                 | 17.30 | 178 | 81    | 0.004  | ng | # 59 |
| 74) Di-n-butylphthalate        | 18.23 | 149 | 516   | 0.022  | ng | # 77 |
| 75) Fluoranthene               | 19.67 | 202 | 490   | 0.020  | ng | # 62 |
| 77) Benzidine                  | 19.88 | 184 | 29052 | 2.173  | ng | # 94 |
| 78) Pyrene                     | 19.67 | 202 | 490   | 0.017  | ng | # 55 |
| 80) Butylbenzylphthalate       | 20.57 | 149 | 250   | 0.020  | ng | # 26 |
| 81) Benzo(a)anthracene         | 21.51 | 228 | 1327  | 0.048  | ng | # 66 |
| 83) Chrysene                   | 21.55 | 228 | 290   | 0.011  | ng | # 47 |

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QLast Update : Mon Feb 24 16:11:23 2020  
Response via : Initial Calibration

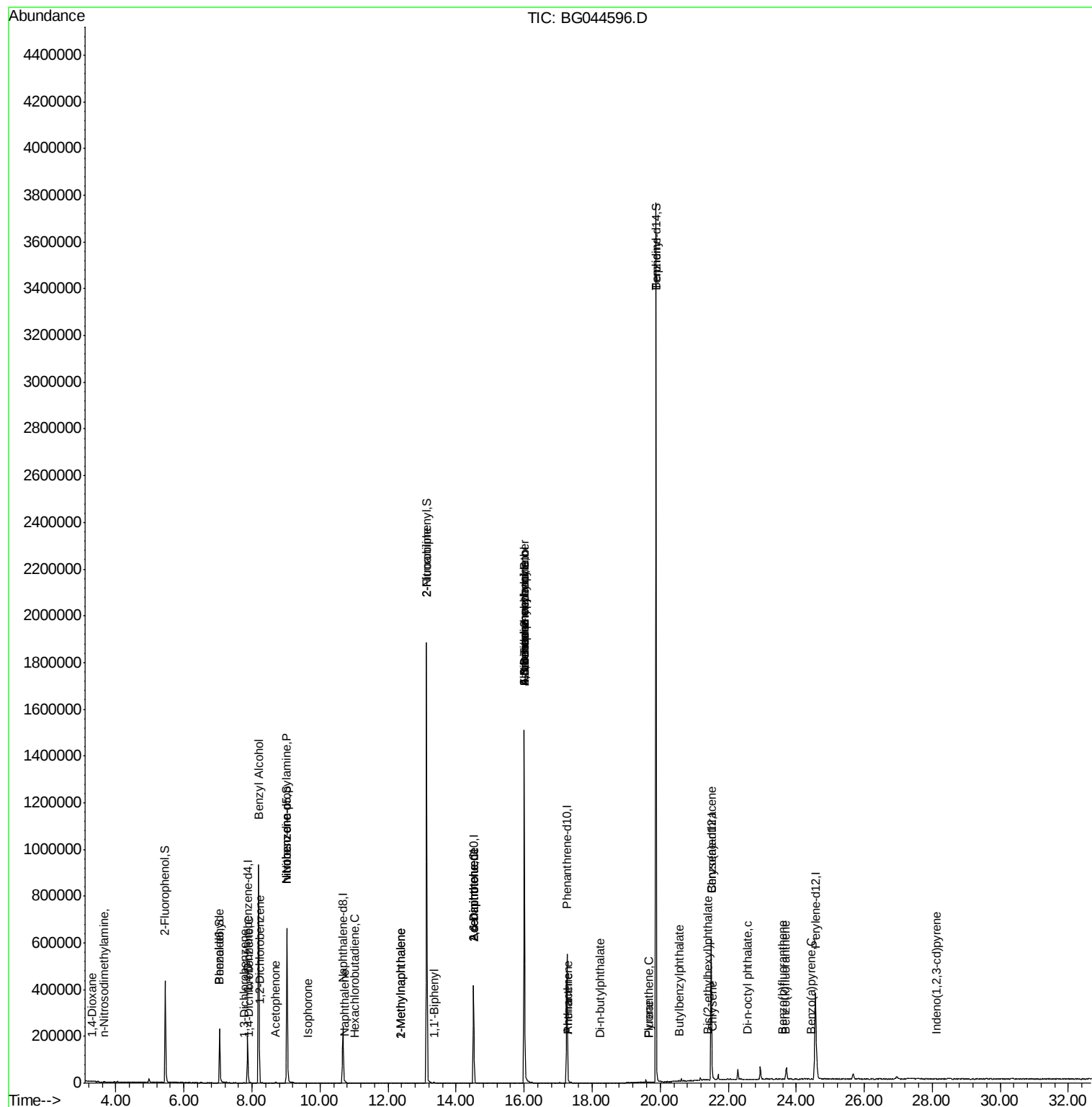
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 84) Bis(2-ethylhexyl)phthalate | 21.40 | 149  | 1612     | 0.094 | nq    | # 93     |
| 85) Di-n-octyl phthalate       | 22.56 | 149  | 885      | 0.029 | nq    | # 1      |
| 86) Indeno(1,2,3-cd)pyrene     | 28.14 | 276  | 69       | 0.002 | nq    | # 51     |
| 88) Benzo(b)fluoranthene       | 23.61 | 252  | 431      | 0.016 | nq    | # 1      |
| 89) Benzo(k)fluoranthene       | 23.67 | 252  | 632      | 0.024 | nq    | # 58     |
| 90) Benzo(a)pyrene             | 24.43 | 252  | 55       | 0.002 | nq    | # 58     |

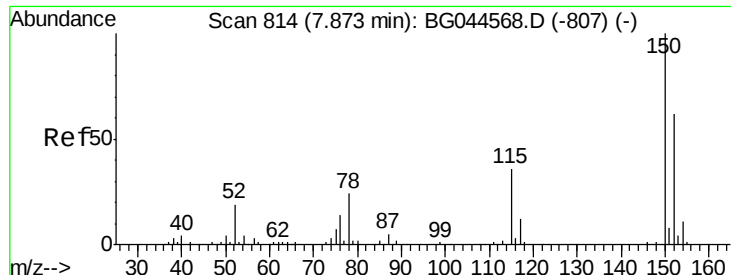
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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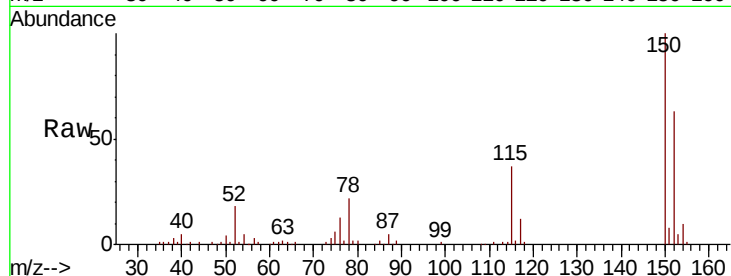


#1

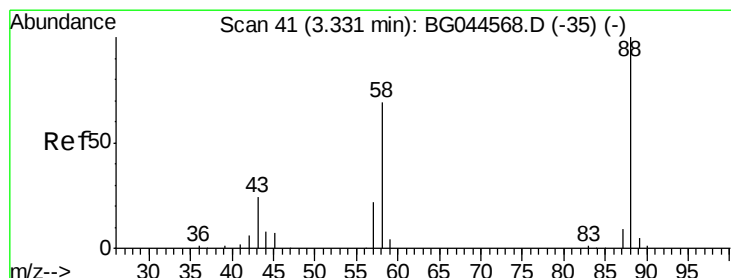
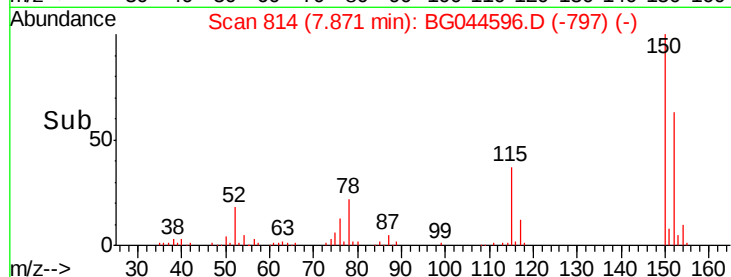
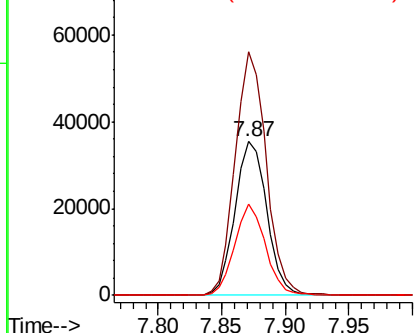
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.87 min Scan# 814  
Delta R.T. -0.00 min  
Lab File: BG044596.D  
Acq: 26 Feb 2020 3:51

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 61916  
Ion Ratio Lower Upper  
152 100  
150 158.7 128.9 193.3  
115 59.1 47.0 70.4



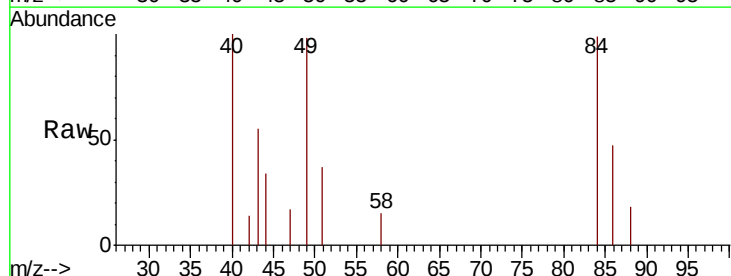
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



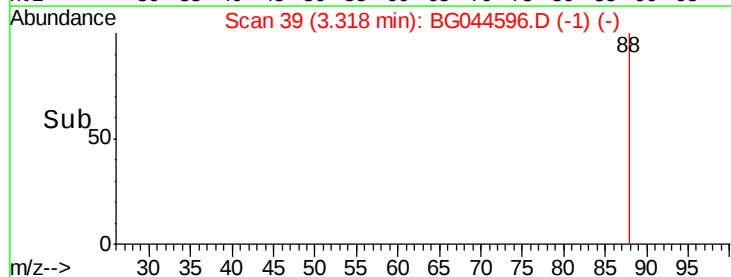
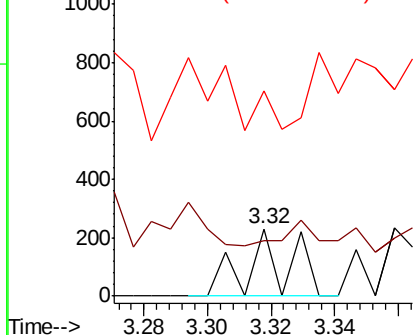
#2

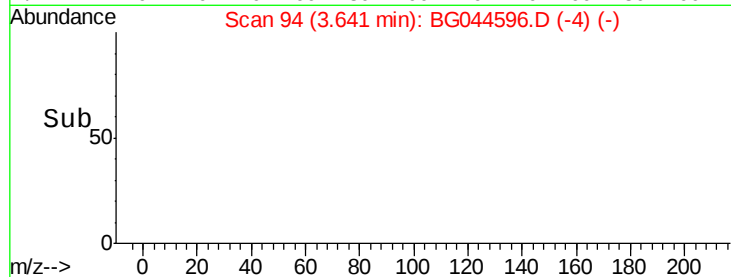
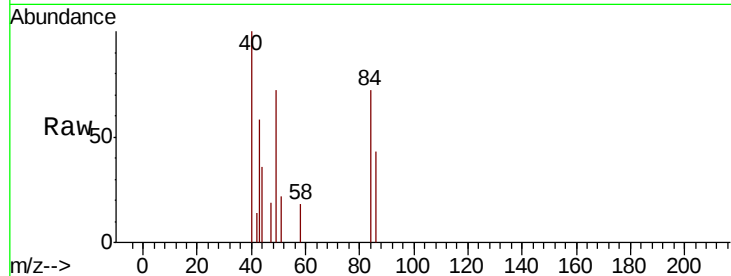
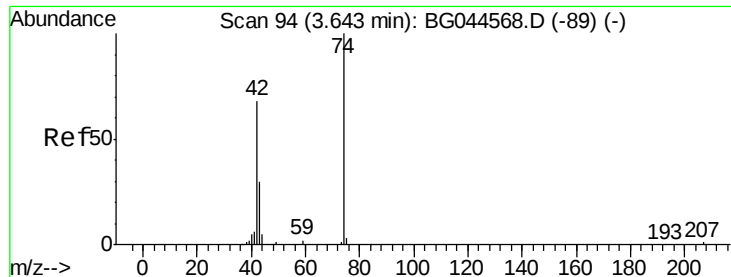
1,4-Dioxane  
Concen: 0.126 ng  
RT: 3.32 min Scan# 39  
Delta R.T. -0.01 min  
Lab File: BG044596.D  
Acq: 26 Feb 2020 3:51

Tgt Ion: 88 Resp: 212  
Ion Ratio Lower Upper  
88 100  
58 25.9 55.8 83.8#  
43 326.9 20.6 31.0#



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





#4

n-Nitrosodimethylamine

Concen: 0.035 ng

RT: 3.64 min Scan# 94

Delta R.T. -0.00 min

Lab File: BG044596.D

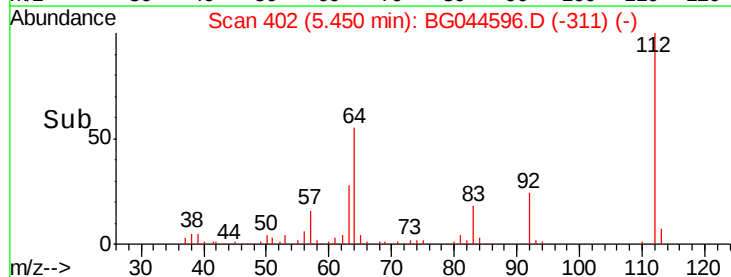
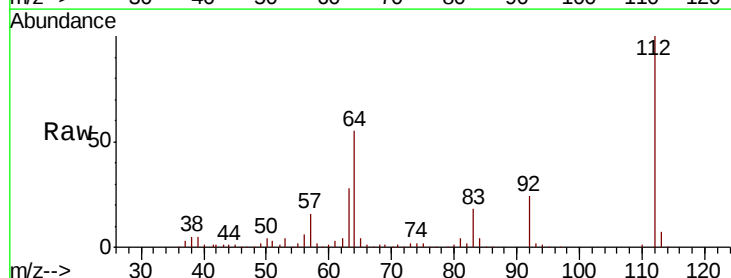
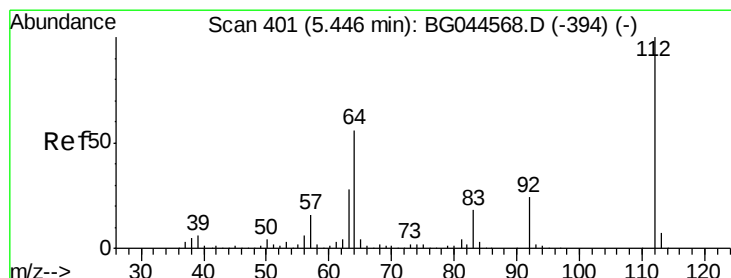
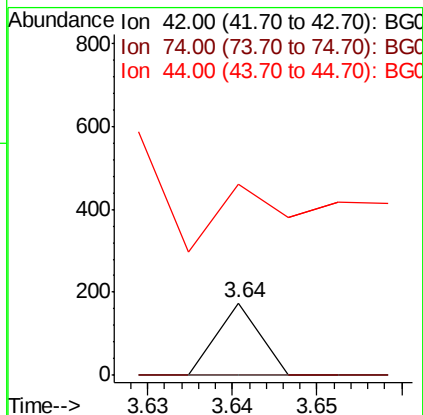
Acq: 26 Feb 2020 3:51

Instrument :

BNA\_G

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 42    | Resp: | 62     |
| Ion      | Ratio | Lower | Upper  |
| 42       | 100   |       |        |
| 74       | 0.0   | 117.6 | 176.4# |
| 44       | 263.4 | 6.3   | 9.5#   |



#5

2-Fluorophenol

Concen: 58.759 ng

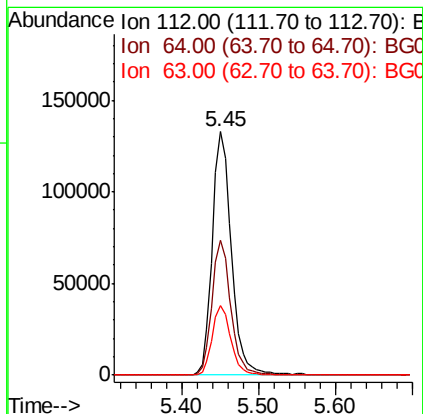
RT: 5.45 min Scan# 402

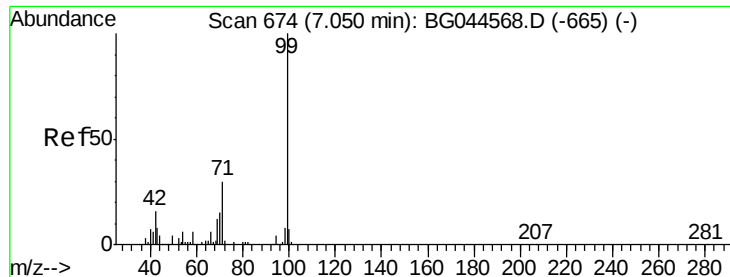
Delta R.T. 0.00 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 226751 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 64       | 55.3  | 44.8  | 67.2   |
| 63       | 28.3  | 22.3  | 33.5   |





#7

Phenol-d6

Concen: 31.379 ng

RT: 7.05 min Scan# 674

Delta R.T. -0.00 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

Instrument :

BNA\_G

ClientSampleId :

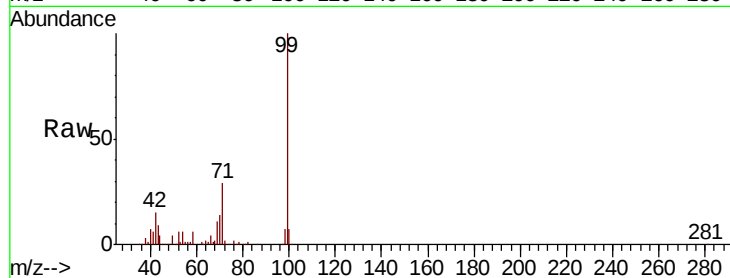
Tot Ion: 99 Resp: 165751

Ion Ratio Lower Upper

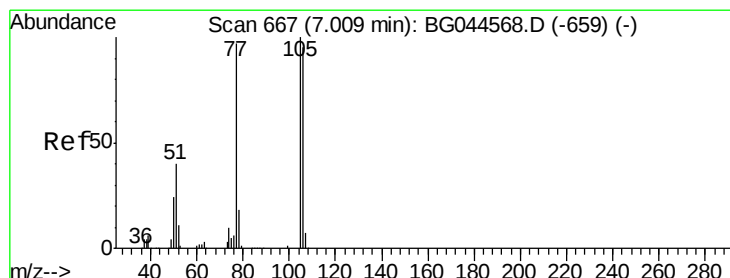
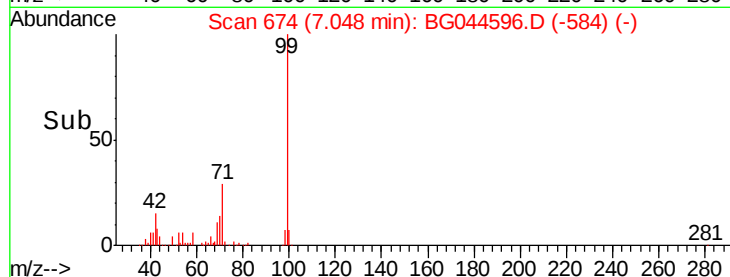
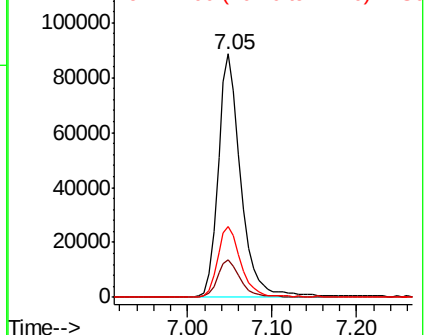
99 100

42 15.4 12.8 19.2

71 29.3 24.4 36.6



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



#9

Benzaldehyde

Concen: 0.093 ng

RT: 7.05 min Scan# 674

Delta R.T. 0.04 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

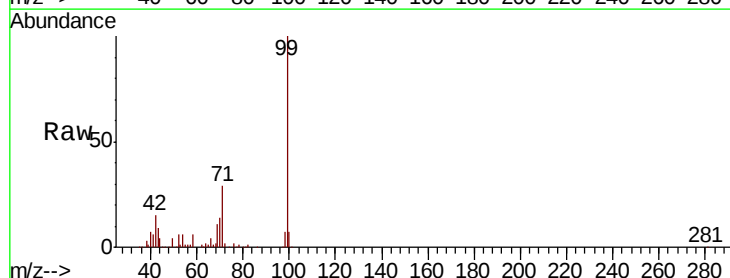
Tgt Ion: 77 Resp: 290

Ion Ratio Lower Upper

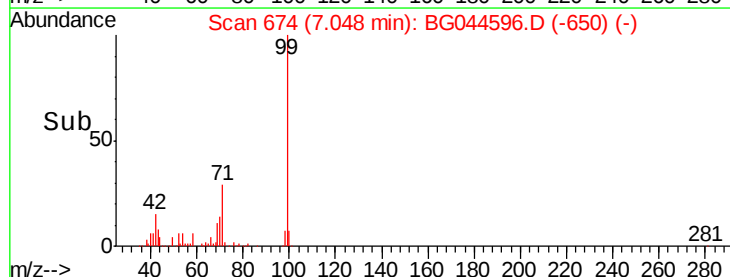
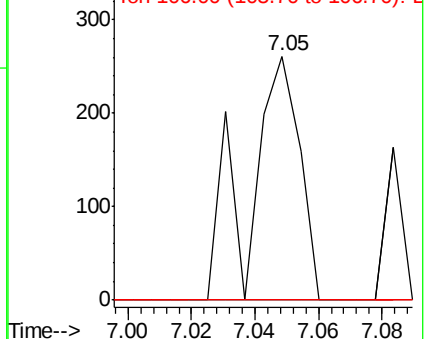
77 100

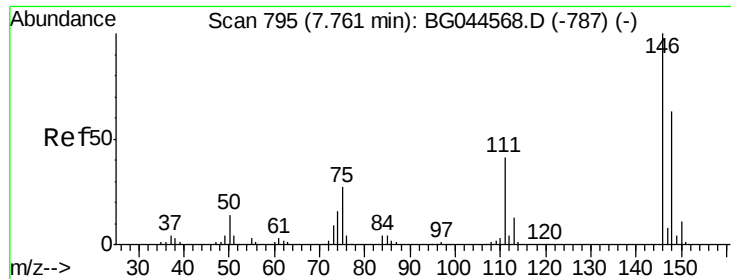
105 0.0 83.6 123.6#

106 0.0 78.2 118.2#



Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 105.00 (104.70 to 105.70): BGC  
Ion 106.00 (105.70 to 106.70): BGC





#12

1,3-Dichlorobenzene

Concen: 0.088 ng

RT: 7.76 min Scan# 795

Delta R.T. -0.00 min

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Acq: 26 Feb 2020 3:51

Instrument :

BNA\_G

ClientSampleId :

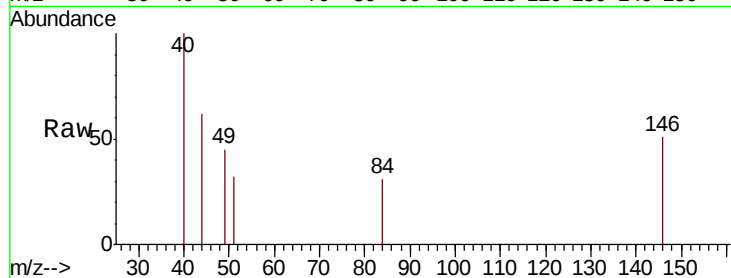
Tot Ion:146 Resp: 443

Ion Ratio Lower Upper

146 100

148 0.0 50.6 75.8#

75 0.0 21.4 32.0#



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): B

7.76

300

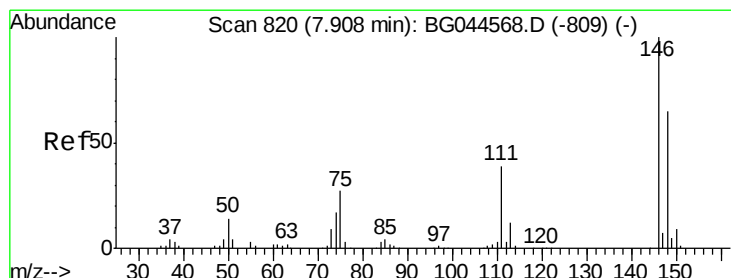
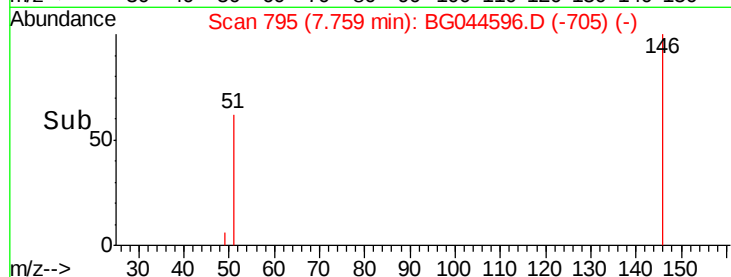
200

100

0

7.72 7.74 7.76 7.78 7.80

Time-->



#13

1,4-Dichlorobenzene

Concen: 0.083 ng

RT: 7.91 min Scan# 821

Delta R.T. 0.00 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

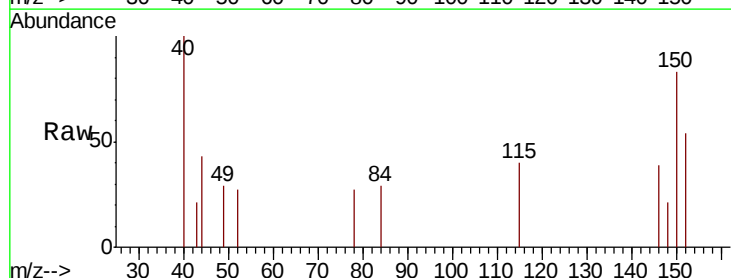
Tgt Ion:146 Resp: 421

Ion Ratio Lower Upper

146 100

148 54.6 51.9 77.9

111 0.0 30.8 46.2#



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E

7.91

500

400

300

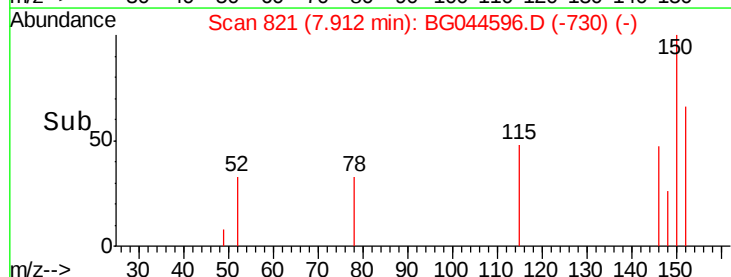
200

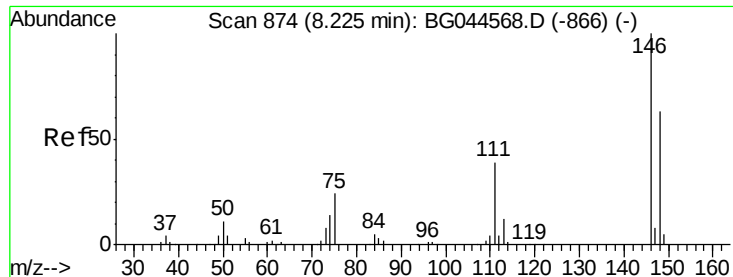
100

0

7.86 7.88 7.90 7.92 7.94

Time-->





#14

1,2-Dichlorobenzene

Concen: 0.045 ng

RT: 8.22 min Scan# 874

Delta R.T. -0.00 min

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ClientSampleId :

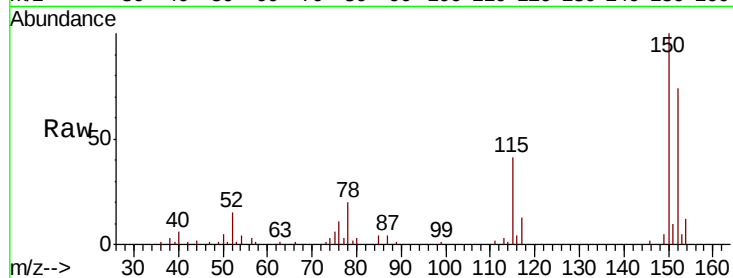
Tot Ion:146 Resp: 216

Ion Ratio Lower Upper

146 100

148 0.0 50.7 76.1#

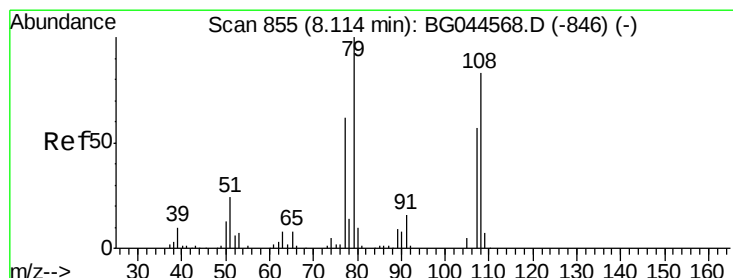
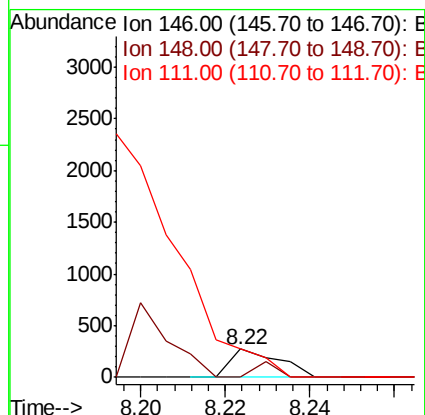
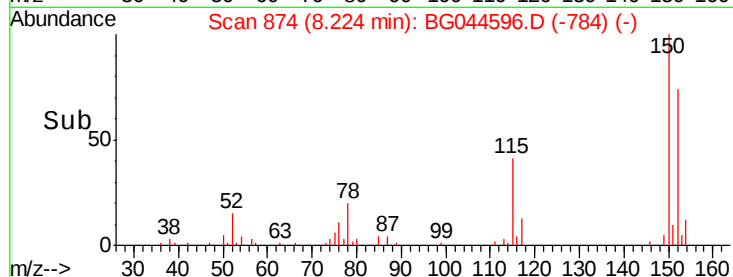
111 100.0 31.8 47.6#



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#15

Benzyl Alcohol

Concen: 2.008 ng

RT: 8.20 min Scan# 870

Delta R.T. 0.09 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

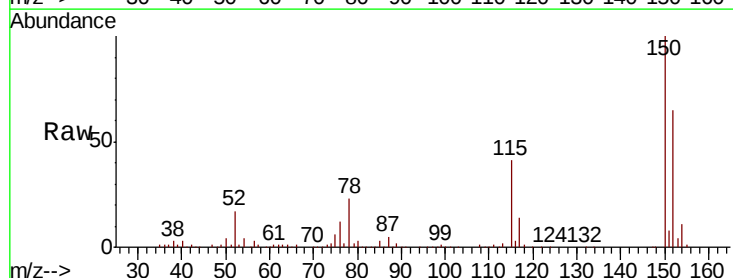
Tgt Ion: 79 Resp: 7152

Ion Ratio Lower Upper

79 100

108 30.7 66.0 99.0#

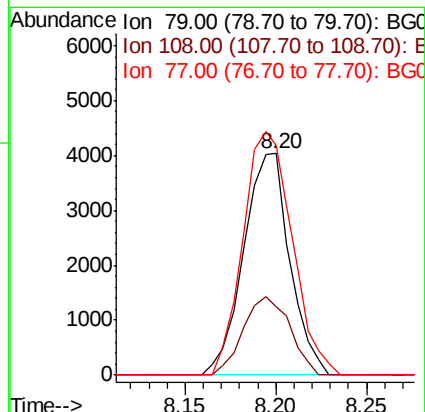
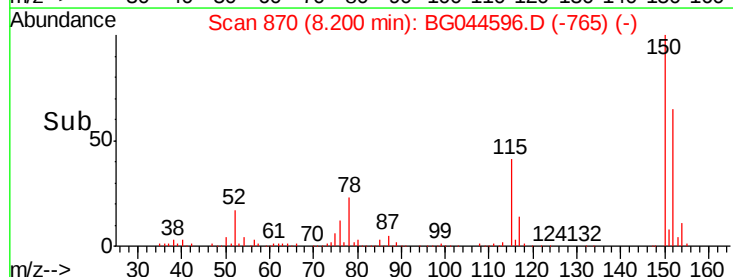
77 103.7 49.6 74.4#

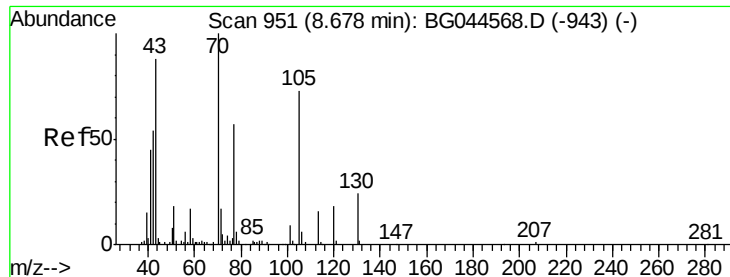


Abundance Ion 79.00 (78.70 to 79.70): BGC

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BGC





#19

n-Nitroso-di-n-propylamine

Concen: 16.782 ng

RT: 9.03 min Scan# 1011

Delta R.T. 0.35 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

Instrument :

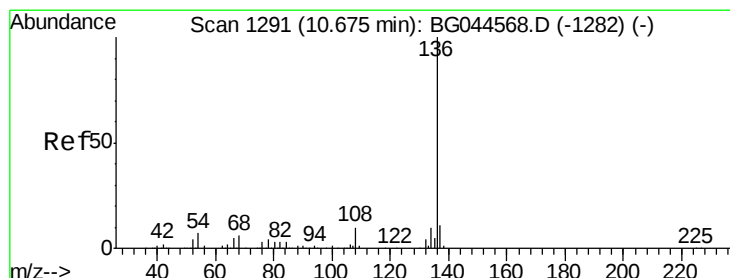
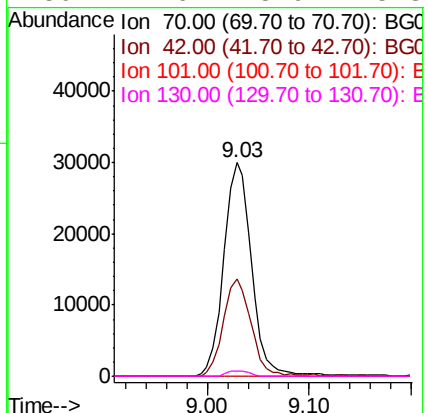
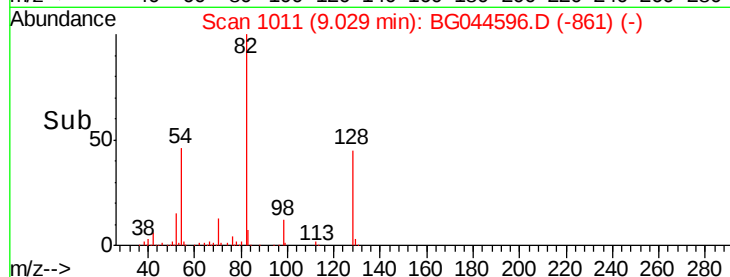
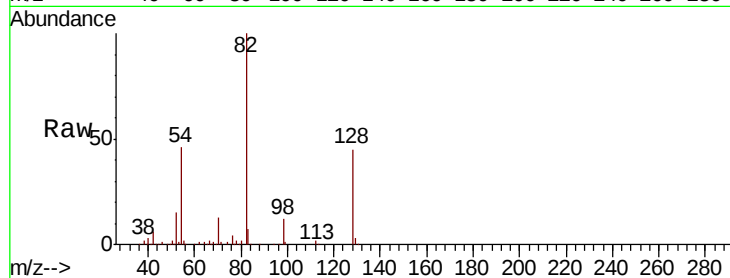
BNA\_G

ClientSampleId :

Tot Ion: 70 Resp: 56981

Ion Ratio Lower Upper

|     |      |      |       |
|-----|------|------|-------|
| 70  | 100  |      |       |
| 42  | 45.6 | 43.4 | 65.0  |
| 101 | 0.0  | 7.5  | 11.3# |
| 130 | 2.6  | 18.9 | 28.3# |



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.67 min Scan# 1291

Delta R.T. -0.00 min

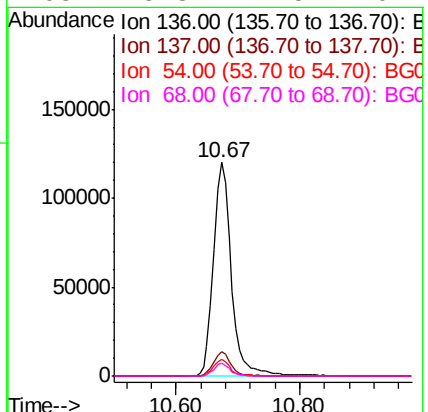
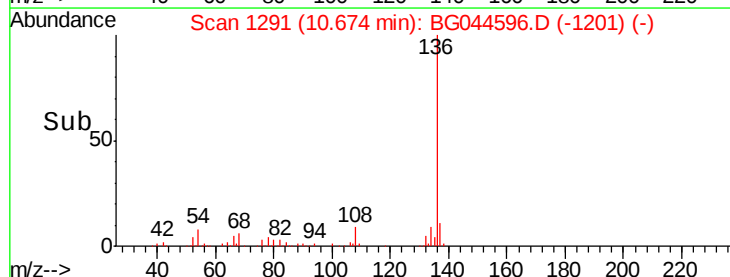
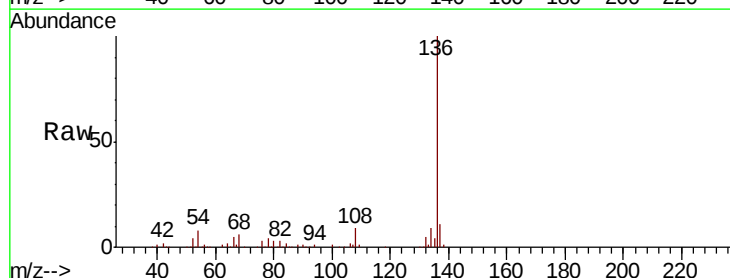
Lab File: BG044596.D

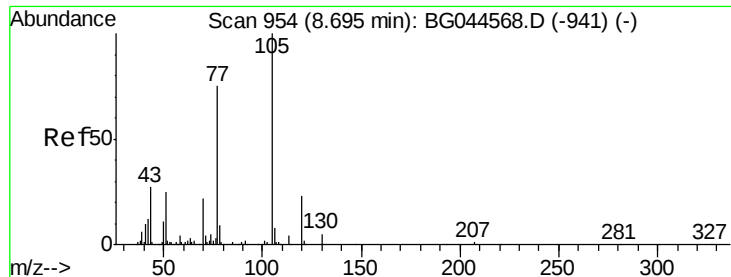
Acq: 26 Feb 2020 3:51

Tgt Ion: 136 Resp: 240117

Ion Ratio Lower Upper

|     |      |     |      |
|-----|------|-----|------|
| 136 | 100  |     |      |
| 137 | 11.2 | 8.8 | 13.2 |
| 54  | 7.7  | 5.7 | 8.5  |
| 68  | 5.8  | 4.5 | 6.7  |





#22

Acetophenone

Concen: 0.601 ng

RT: 8.70 min Scan# 955

Delta R.T. 0.00 min

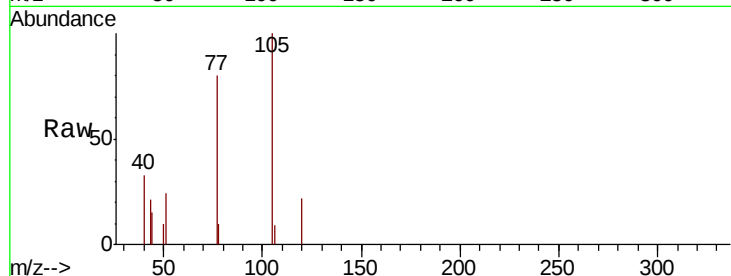
Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

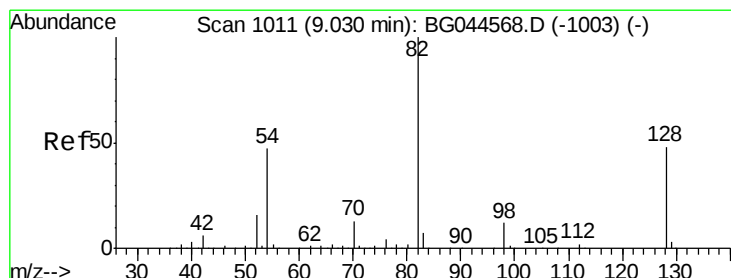
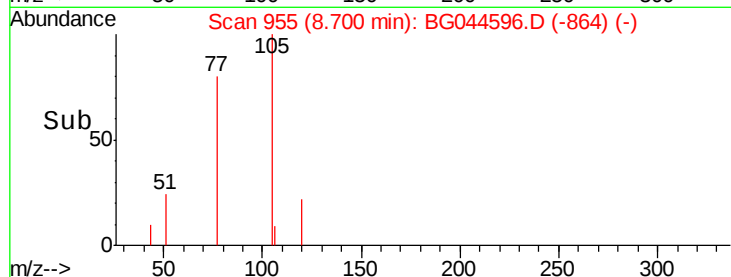
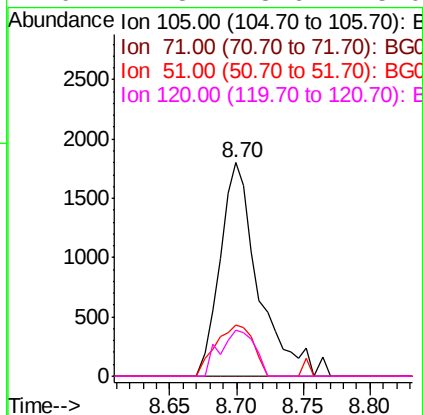
Instrument :

BNA\_G

ClientSampled :



|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 105   | Resp: | 3623  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 0.0   | 2.8   | 4.2#  |
| 51       | 23.9  | 19.9  | 29.9  |
| 120      | 21.8  | 18.6  | 28.0  |



#23

Nitrobenzene-d5

Concen: 94.796 ng

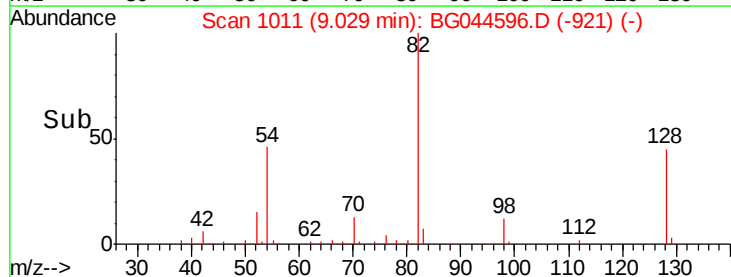
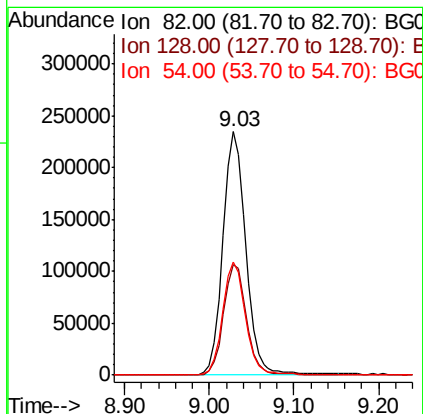
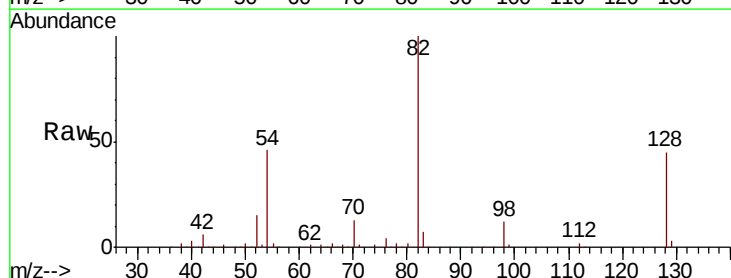
RT: 9.03 min Scan# 1011

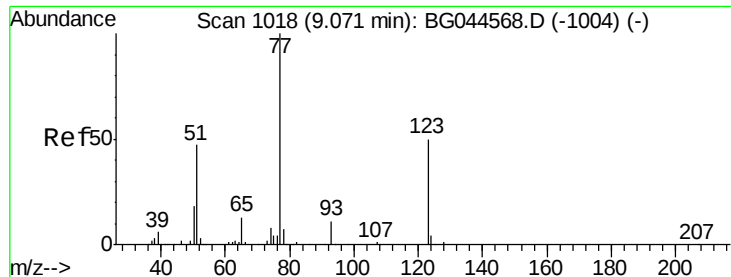
Delta R.T. -0.00 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 441826 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 45.4  | 38.1  | 57.1   |
| 54       | 46.5  | 37.5  | 56.3   |





#24

Nitrobenzene

Concen: 0.287 ng

RT: 9.02 min Scan# 1010

Delta R.T. -0.05 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

Instrument :

BNA\_G

ClientSampled :

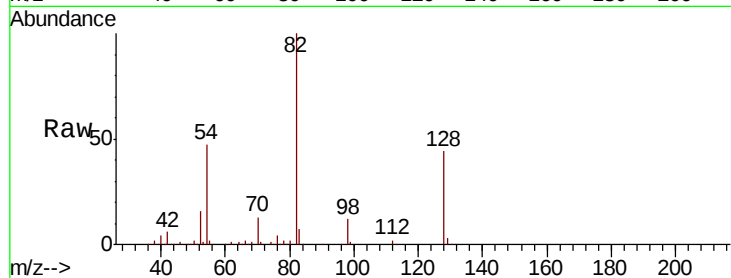
Tot Ion: 77 Resp: 1296

Ion Ratio Lower Upper

77 100

123 0.0 40.1 60.1#

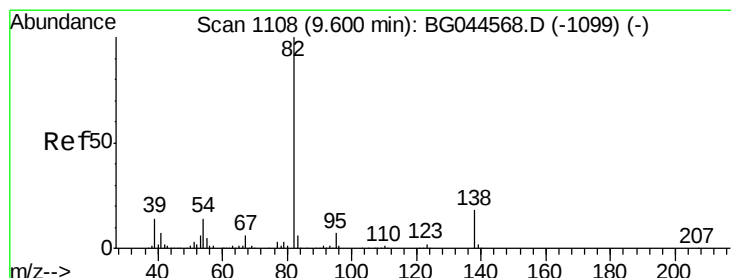
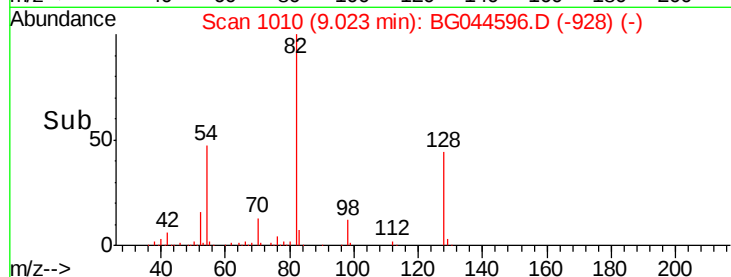
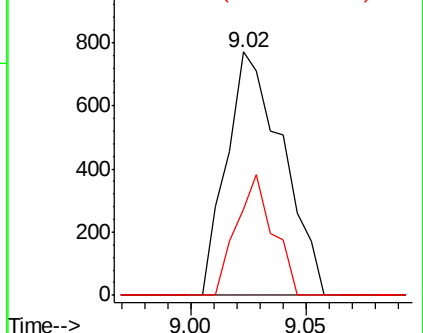
65 35.4 10.4 15.6#



Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 123.00 (122.70 to 123.70): BGC

Ion 65.00 (64.70 to 65.70): BGC



#25

Isophorone

Concen: 0.029 ng

RT: 9.63 min Scan# 1113

Delta R.T. 0.03 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

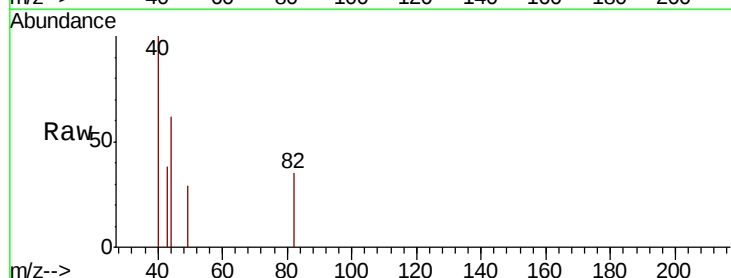
Tgt Ion: 82 Resp: 250

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

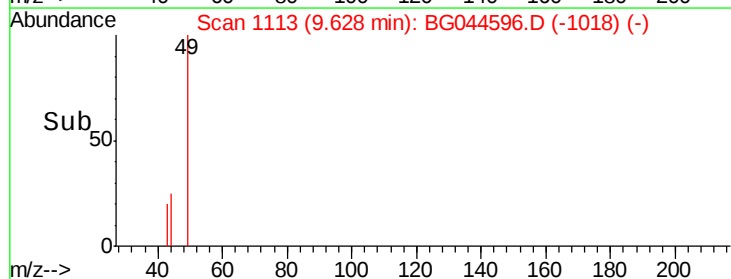
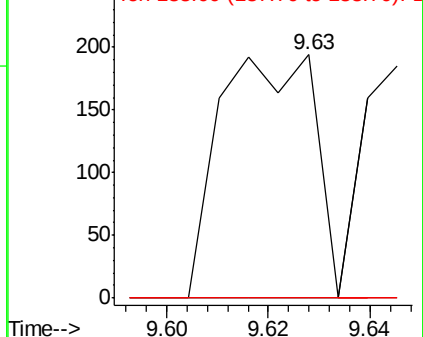
138 0.0 14.7 22.1#

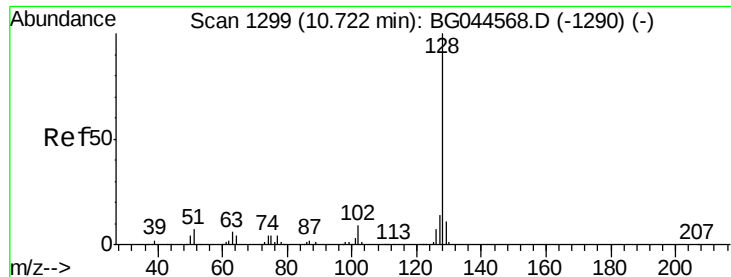


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 95.00 (94.70 to 95.70): BGC

Ion 138.00 (137.70 to 138.70): BGC

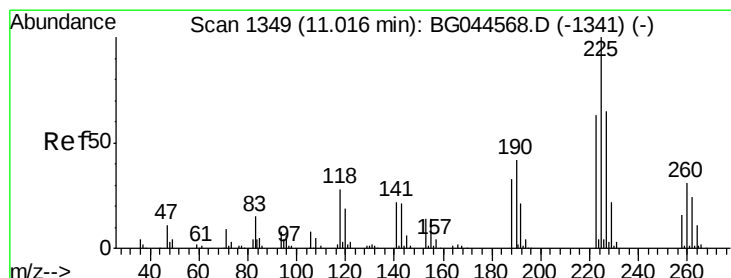
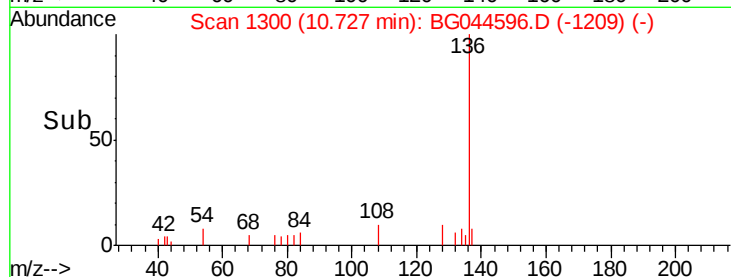
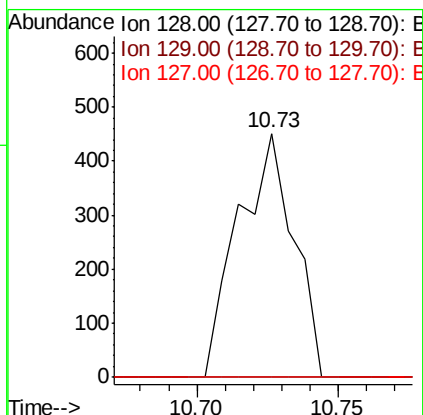
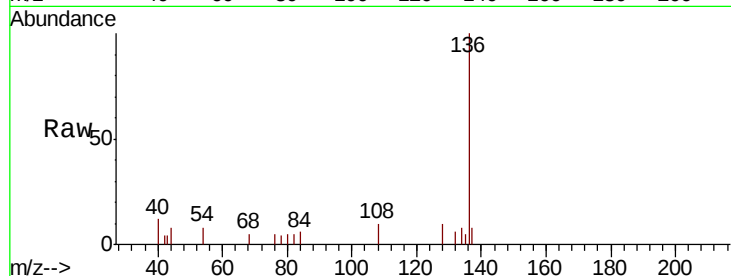




#31  
Naphthalene  
Concen: 0.047 ng  
RT: 10.73 min Scan# 1300  
Delta R.T. 0.00 min  
Lab File: BG044596.D  
Acq: 26 Feb 2020 3:51

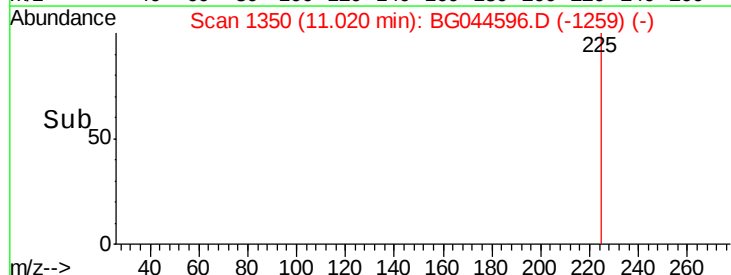
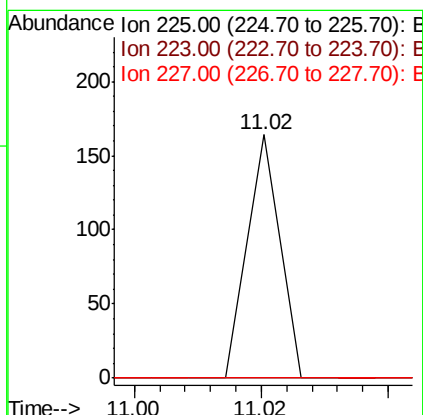
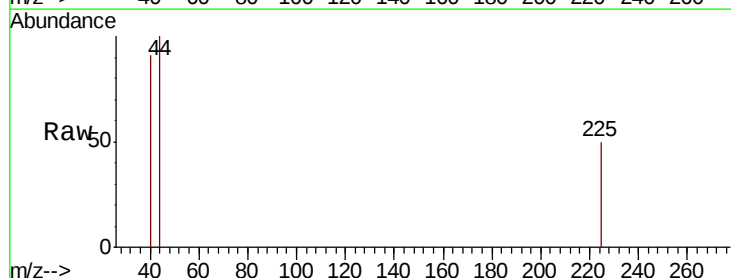
Instrument :  
BNA\_G  
ClientSampleId :

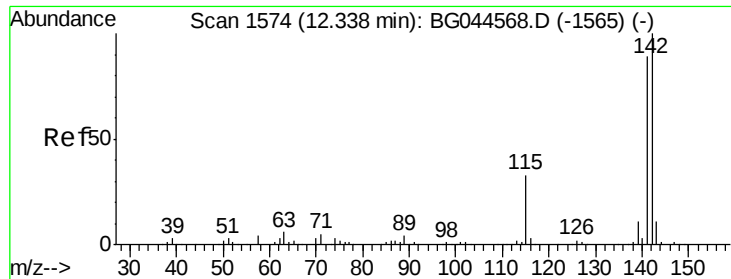
Tot Ion:128 Resp: 613  
Ion Ratio Lower Upper  
128 100  
129 0.0 9.0 13.6#  
127 0.0 11.0 16.4#



#34  
Hexachlorobutadiene  
Concen: 0.019 ng  
RT: 11.02 min Scan# 1350  
Delta R.T. 0.00 min  
Lab File: BG044596.D  
Acq: 26 Feb 2020 3:51

Tgt Ion:225 Resp: 58  
Ion Ratio Lower Upper  
225 100  
223 0.0 50.6 76.0#  
227 0.0 52.1 78.1#

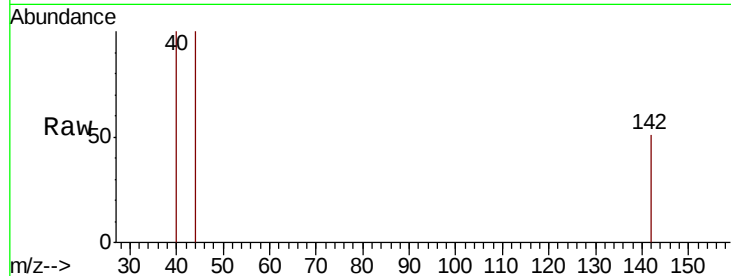




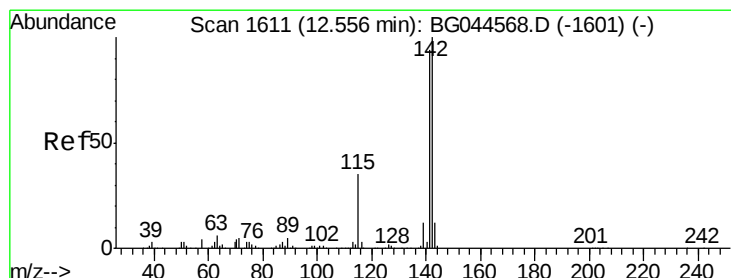
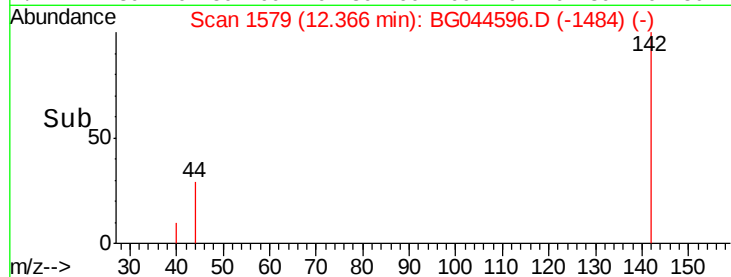
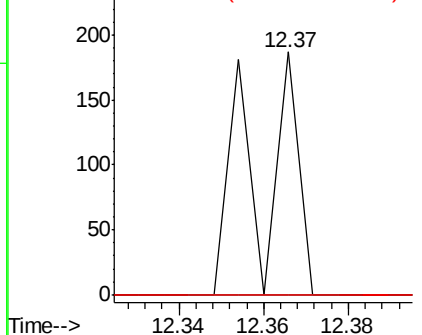
#37  
2-Methylnaphthalene  
Concen: 0.013 ng  
RT: 12.37 min Scan# 1579  
Delta R.T. 0.03 min  
Lab File: BG044596.D  
Acq: 26 Feb 2020 3:51

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 142     | 100   |       |        |
| 141     | 0.0   | 71.3  | 106.9# |
| 115     | 0.0   | 26.2  | 39.2#  |

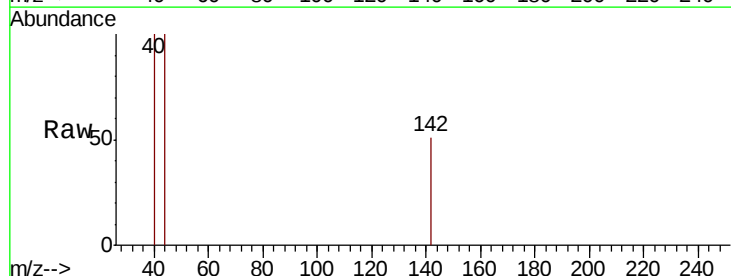


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

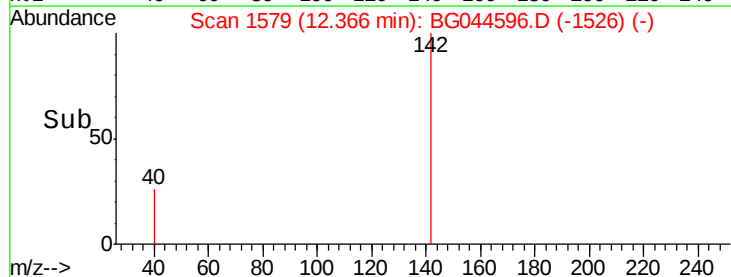
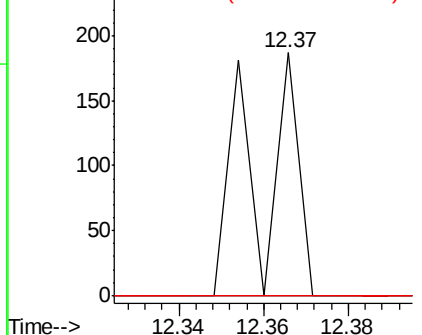


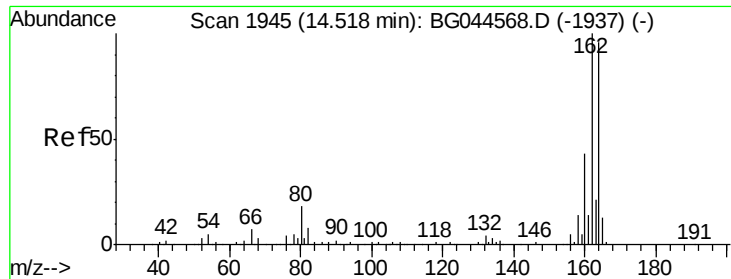
#38  
1-Methylnaphthalene  
Concen: 0.014 ng  
RT: 12.37 min Scan# 1579  
Delta R.T. -0.19 min  
Lab File: BG044596.D  
Acq: 26 Feb 2020 3:51

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 142     | 100   |       |        |
| 141     | 0.0   | 75.1  | 112.7# |
| 116     | 0.0   | 2.6   | 4.0#   |



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 116.00 (115.70 to 116.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.52 min Scan# 1945

Delta R.T. -0.00 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

Instrument :

BNA\_G

ClientSampleId :

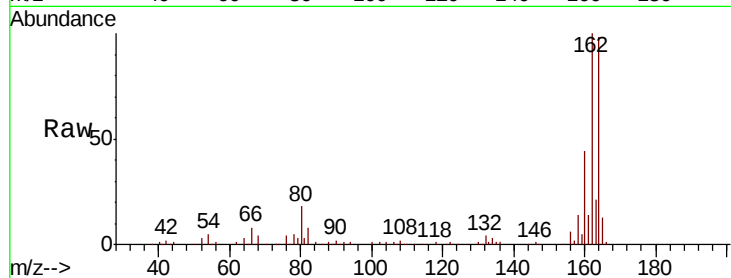
Tot Ion:164 Resp: 159442

Ion Ratio Lower Upper

164 100

162 102.0 83.6 125.4

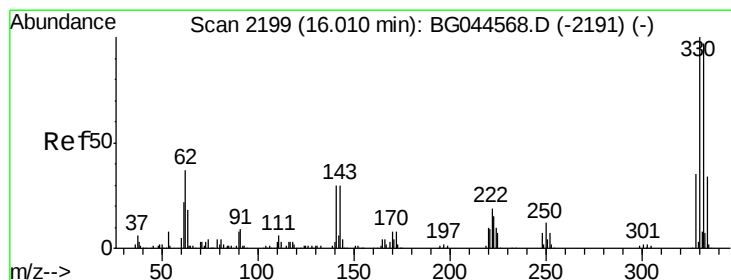
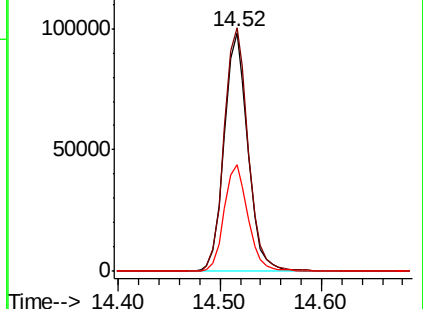
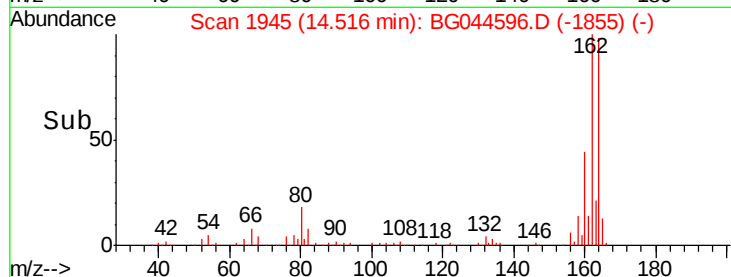
160 44.7 36.2 54.4



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: 144.294 ng

RT: 16.01 min Scan# 2199

Delta R.T. -0.00 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

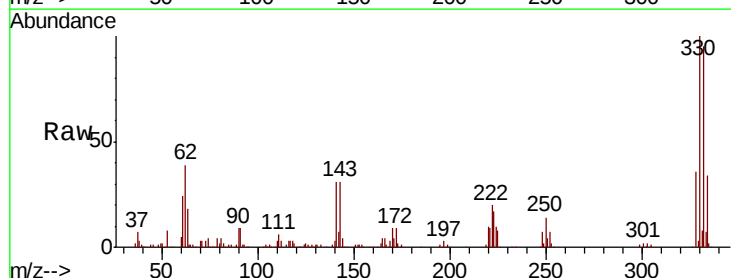
Tgt Ion:330 Resp: 326214

Ion Ratio Lower Upper

330 100

332 95.5 77.4 116.0

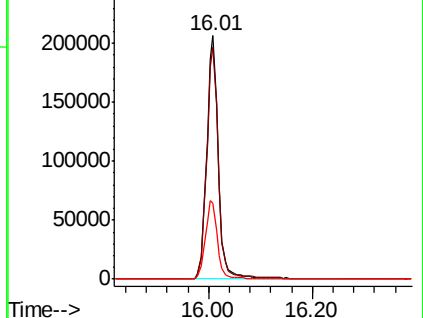
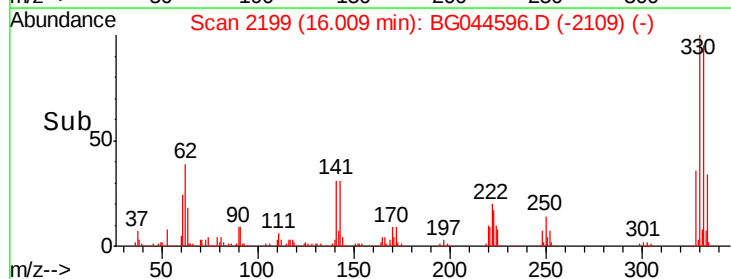
141 32.8 26.1 39.1

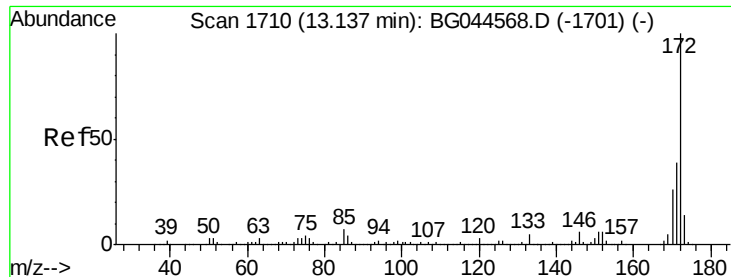


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



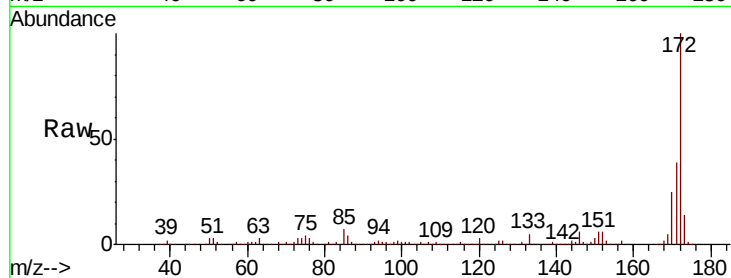


#45  
 2-Fluorobiphenyl  
 Concen: 95.366 ng  
 RT: 13.14 min Scan# 1710  
 Delta R.T. -0.00 min  
 Lab File: BG044596.D  
 Acq: 26 Feb 2020 3:51

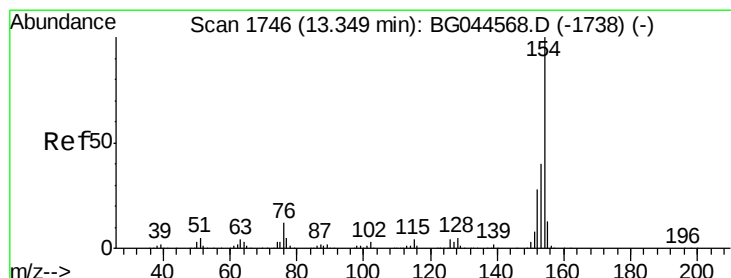
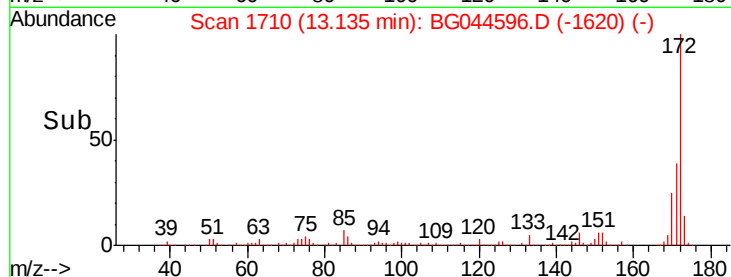
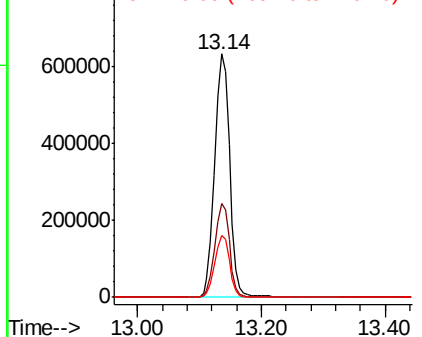
Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:172 Resp: 1061834  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 38.6  | 31.3  | 46.9  |
| 170 | 25.4  | 21.0  | 31.4  |



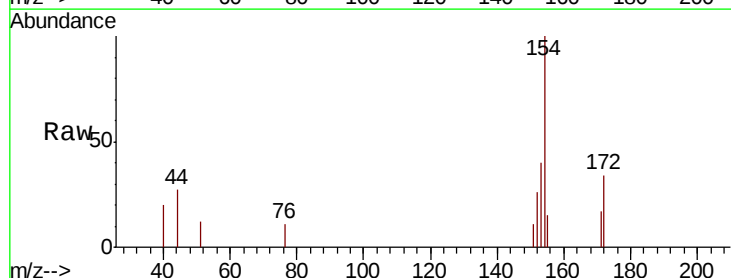
Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E



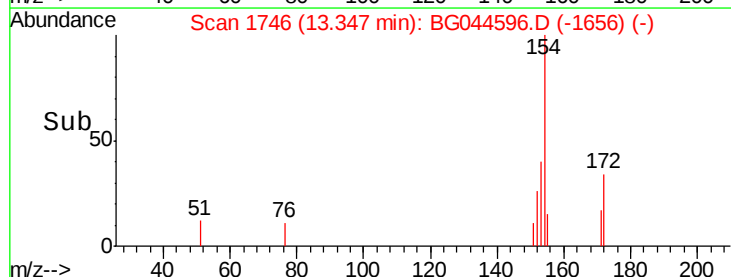
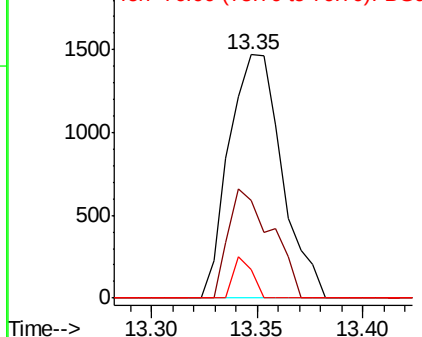
#46  
 1,1'-Biphenyl  
 Concen: 0.193 ng  
 RT: 13.35 min Scan# 1746  
 Delta R.T. -0.00 min  
 Lab File: BG044596.D  
 Acq: 26 Feb 2020 3:51

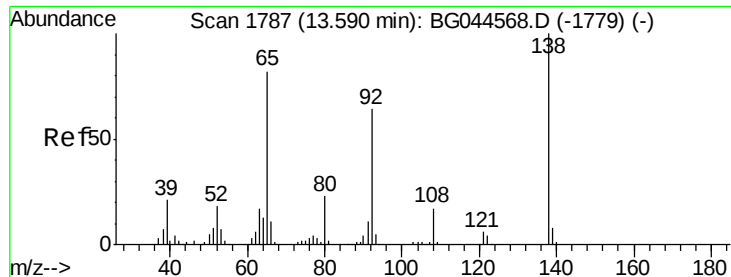
Tgt Ion:154 Resp: 2553  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 154 | 100   |       |       |
| 153 | 39.9  | 20.2  | 60.2  |
| 76  | 11.5  | 0.0   | 31.8  |



Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): BG





#48

2-Nitroaniline

Concen: 0.537 ng

RT: 13.14 min Scan# 1710

Delta R.T. -0.45 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

Instrument :

BNA\_G

ClientSampled :

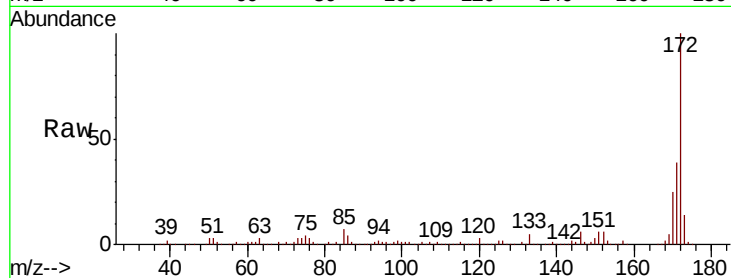
Tot Ion: 65 Resp: 1543

Ion Ratio Lower Upper

65 100

92 190.0 62.2 93.2#

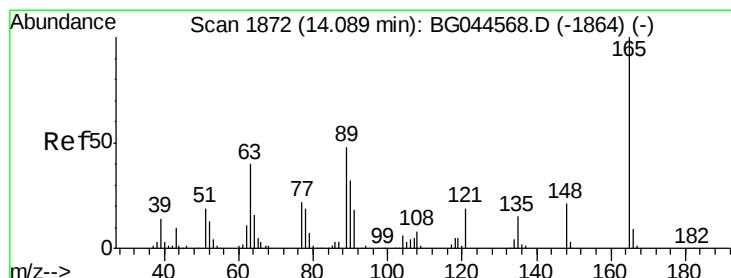
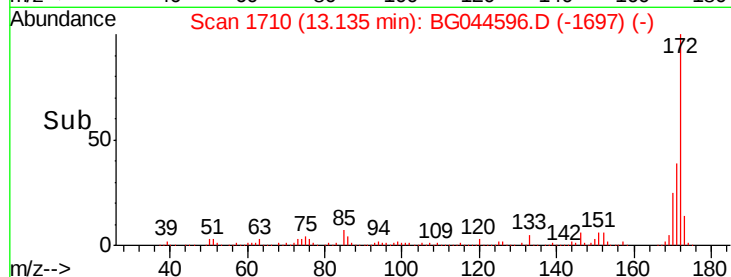
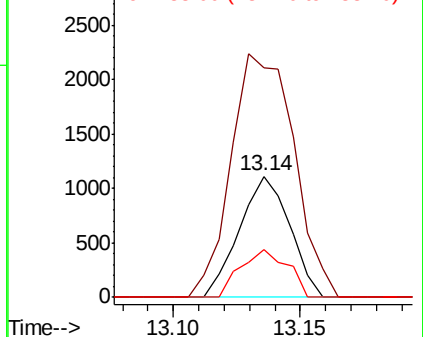
138 39.1 97.6 146.4#



Abundance Ion 65.00 (64.70 to 65.70): BGC

Ion 92.00 (91.70 to 92.70): BGC

Ion 138.00 (137.70 to 138.70): BGC



#51

2,6-Dinitrotoluene

Concen: 7.464 ng

RT: 14.52 min Scan# 1945

Delta R.T. 0.43 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

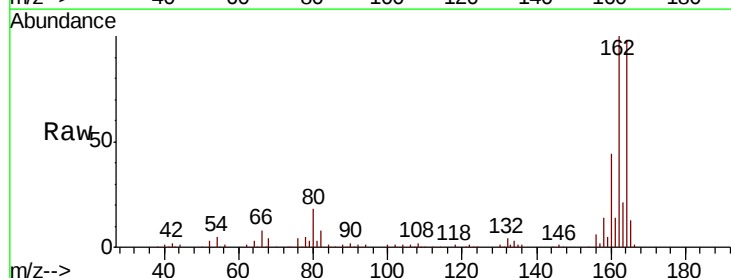
Tgt Ion: 165 Resp: 21185

Ion Ratio Lower Upper

165 100

63 0.0 35.8 53.6#

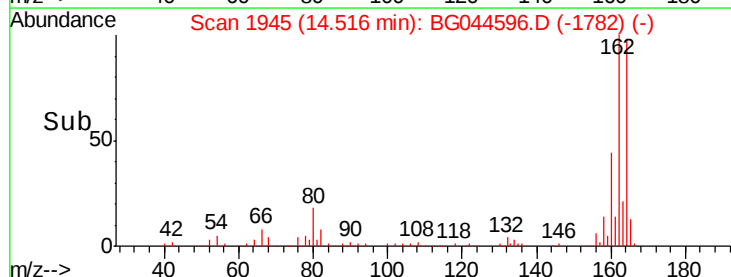
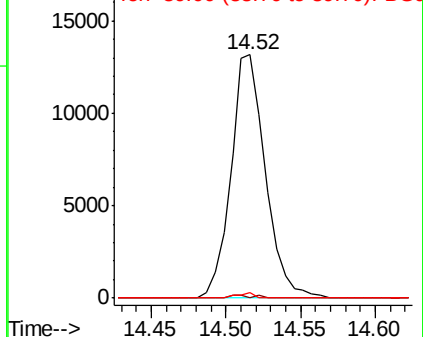
89 2.4 38.7 58.1#

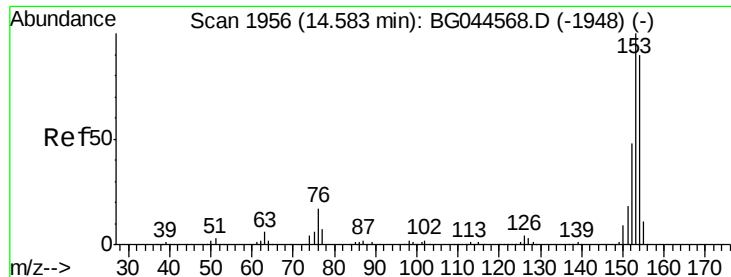


Abundance Ion 165.00 (164.70 to 165.70): BGC

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC





#52

Acenaphthene

Concen: 0.048 ng

RT: 14.52 min Scan# 1946

Delta R.T. -0.06 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

Instrument :

BNA\_G

ClientSampleId :

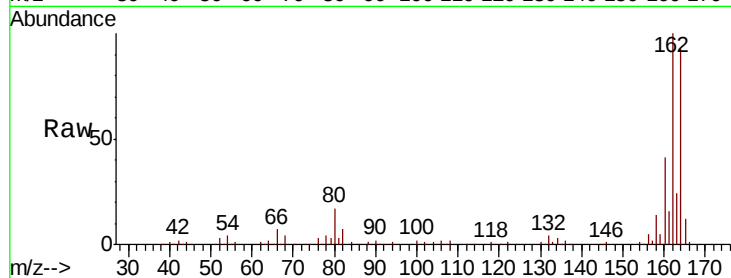
Tot Ion:154 Resp: 467

Ion Ratio Lower Upper

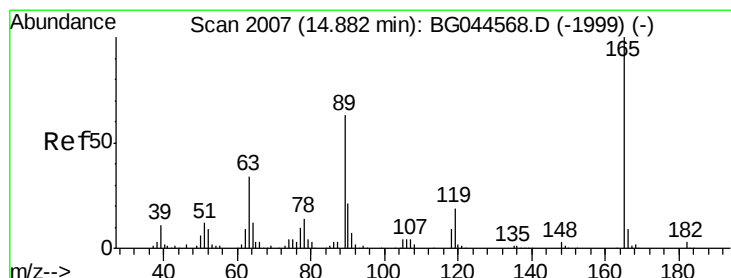
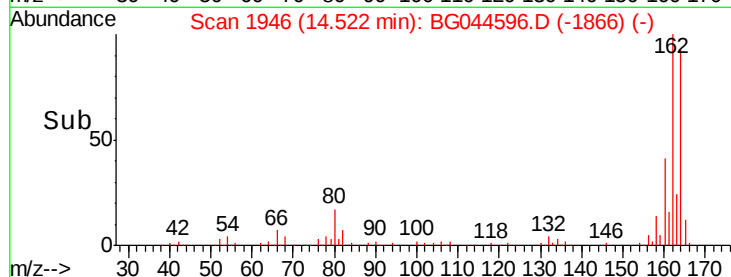
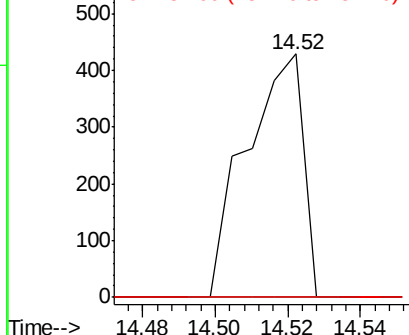
154 100

153 0.0 89.4 134.0#

152 0.0 43.0 64.4#



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



#57

2,4-Dinitrotoluene

Concen: 5.309 ng

RT: 14.52 min Scan# 1945

Delta R.T. -0.37 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

Tgt Ion:165 Resp: 21185

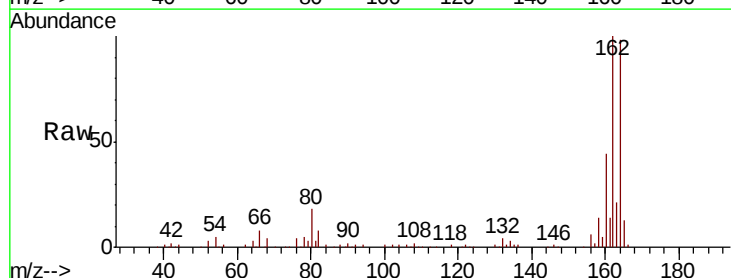
Ion Ratio Lower Upper

165 100

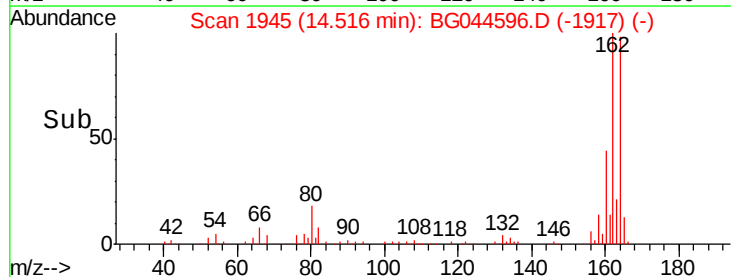
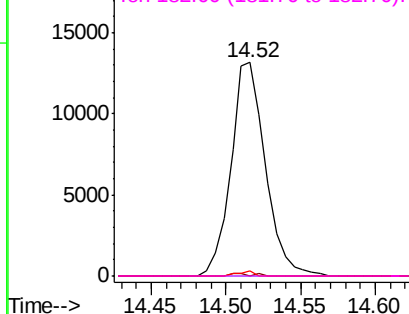
63 0.0 27.5 41.3#

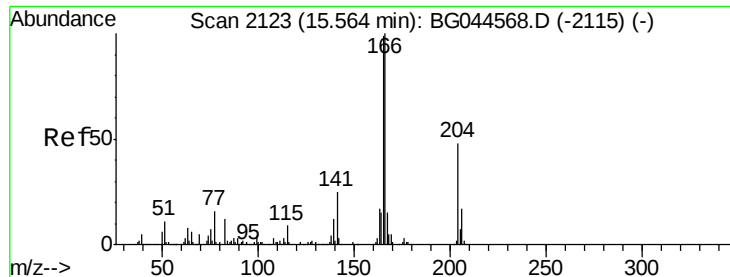
89 2.4 50.0 75.0#

182 0.0 2.3 3.5#



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





#58

Fluorene

Concen: 1.142 ng

RT: 16.01 min Scan# 2199

Delta R.T. 0.44 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

Instrument :

BNA\_G

ClientSampleId :

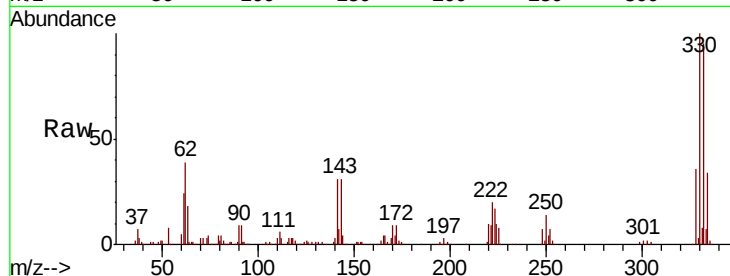
Tot Ion:166 Resp: 13514

Ion Ratio Lower Upper

166 100

165 97.7 79.2 118.8

167 35.3 11.7 17.5#

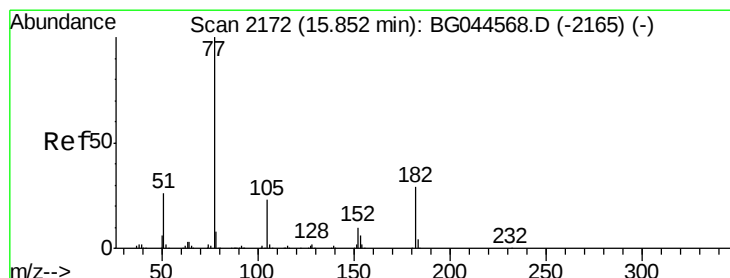
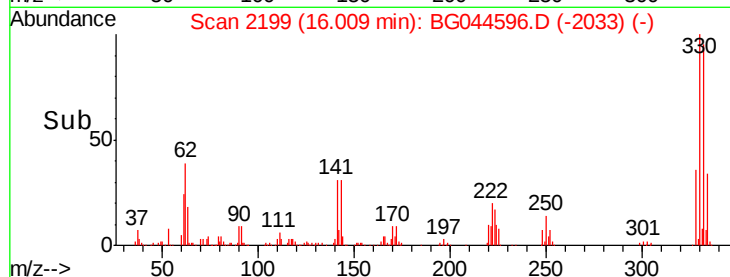
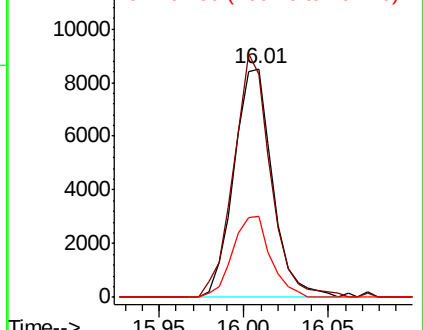


Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Azobenzene

Concen: 0.145 ng

RT: 16.00 min Scan# 2198

Delta R.T. 0.15 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

Tgt Ion: 77 Resp: 1574

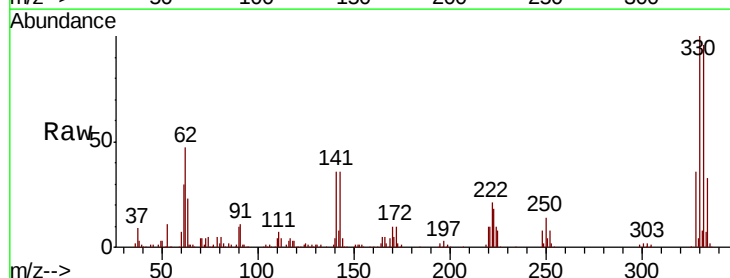
Ion Ratio Lower Upper

77 100

182 0.0 9.4 49.4#

105 74.1 3.4 43.4#

51 77.7 6.4 46.4#



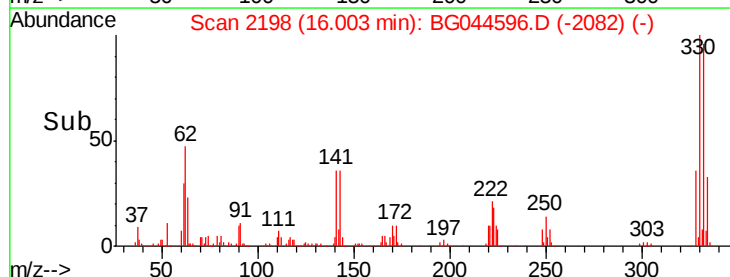
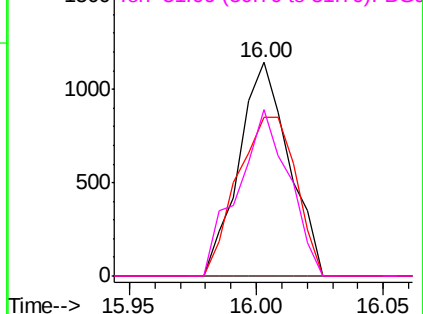
Abundance

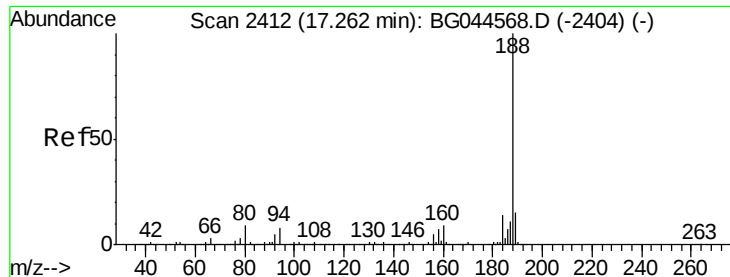
Ion 77.00 (76.70 to 77.70): BGC

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BGC





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.26 min Scan# 2412

Delta R.T. -0.00 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

Instrument :

BNA\_G

ClientSampleId :

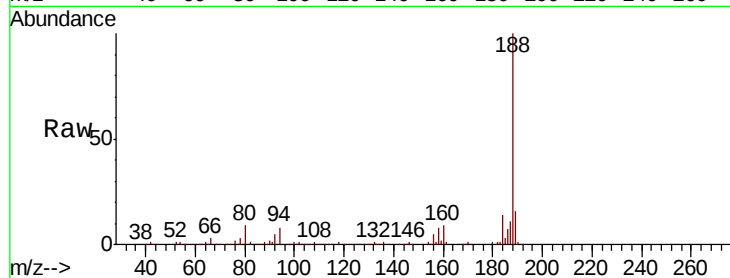
Tot Ion:188 Resp: 382638

Ion Ratio Lower Upper

188 100

94 7.9 6.7 10.1

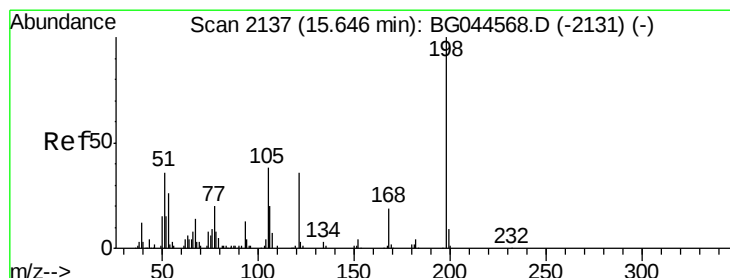
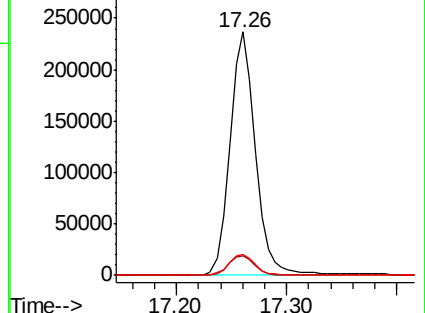
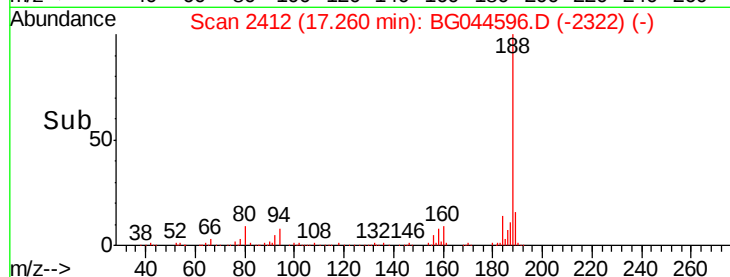
80 8.7 7.6 11.4



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: 0.338 ng

RT: 16.01 min Scan# 2199

Delta R.T. 0.36 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

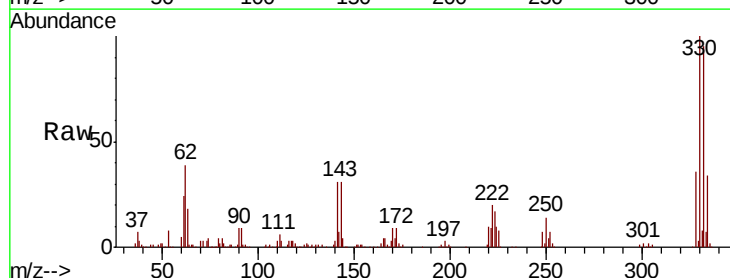
Tgt Ion:198 Resp: 801

Ion Ratio Lower Upper

198 100

51 101.7 17.0 57.0#

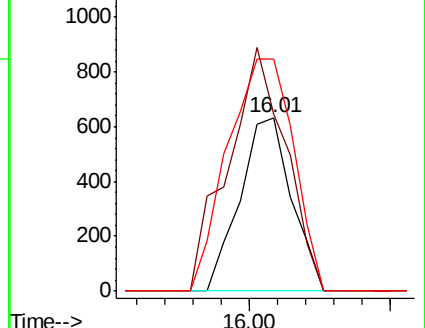
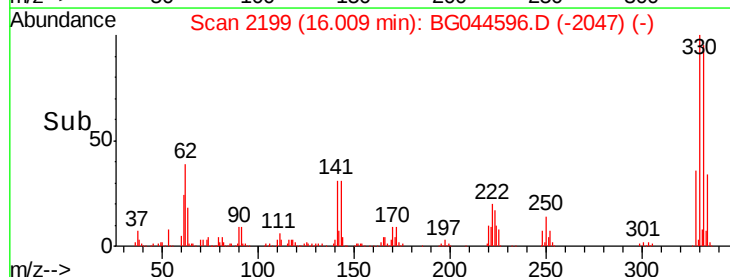
105 133.9 18.4 58.4#

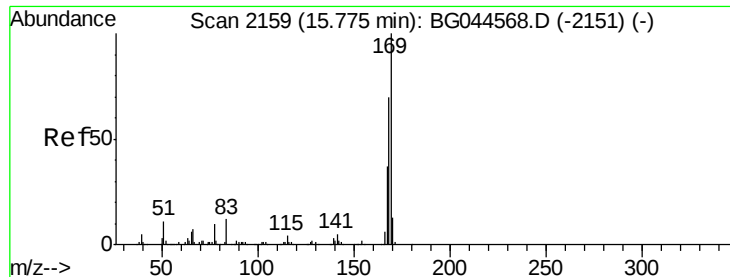


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG

Ion 105.00 (104.70 to 105.70): E

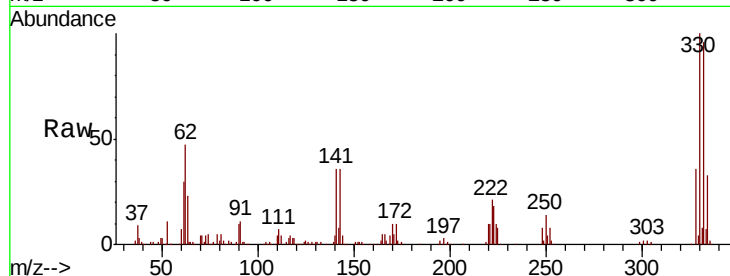




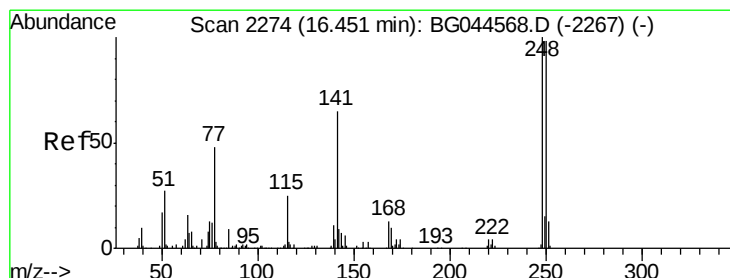
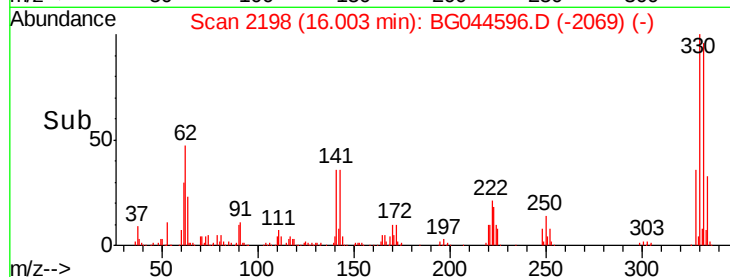
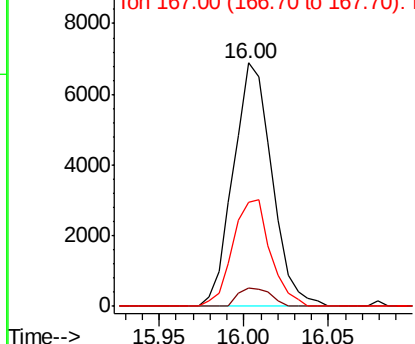
#66  
 n-Nitrosodiphenylamine  
 Concen: 0.921 ng  
 RT: 16.00 min Scan# 2198  
 Delta R.T. 0.23 min  
 Lab File: BG044596.D  
 Acq: 26 Feb 2020 3:51

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 7.3   | 56.1  | 84.1# |
| 167     | 50.3  | 29.4  | 44.0# |

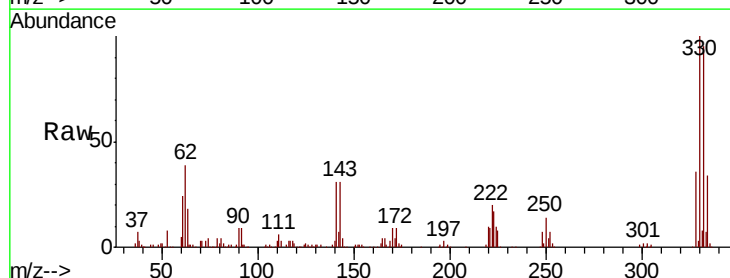


Abundance Ion 169.00 (168.70 to 169.70): E  
 Ion 168.00 (167.70 to 168.70): E  
 Ion 167.00 (166.70 to 167.70): E

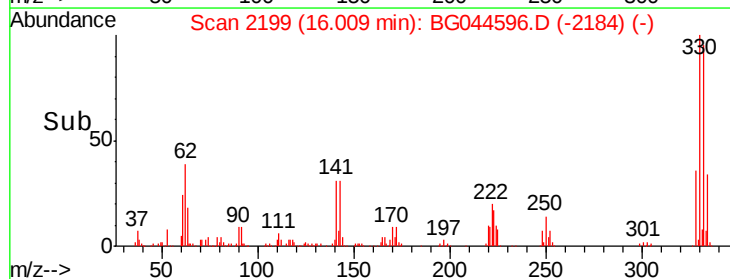
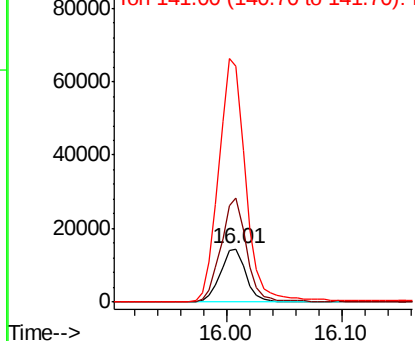


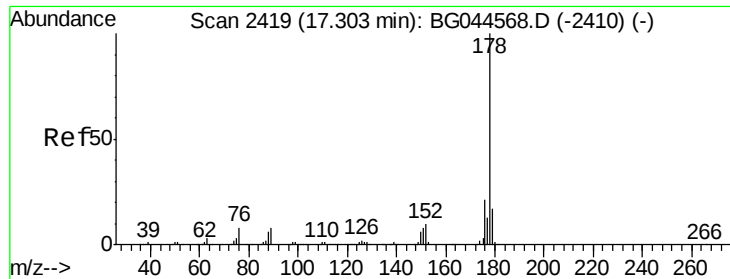
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.714 ng  
 RT: 16.01 min Scan# 2199  
 Delta R.T. -0.44 min  
 Lab File: BG044596.D  
 Acq: 26 Feb 2020 3:51

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 195.3 | 78.7  | 118.1# |
| 141     | 443.9 | 52.3  | 78.5#  |



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





#71

Phenanthrene

Concen: 0.004 ng

RT: 17.30 min Scan# 2419

Delta R.T. -0.00 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

Instrument :

BNA\_G

ClientSampleId :

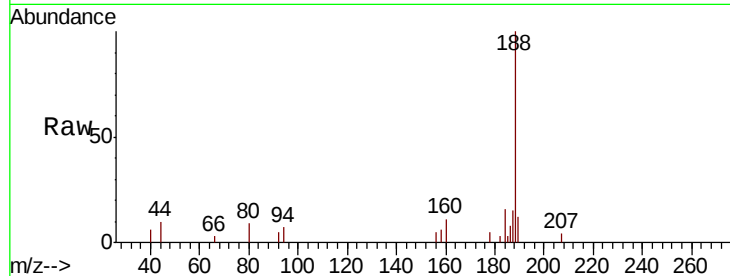
Tot Ion:178 Resp: 81

Ion Ratio Lower Upper

178 100

176 0.0 16.6 25.0#

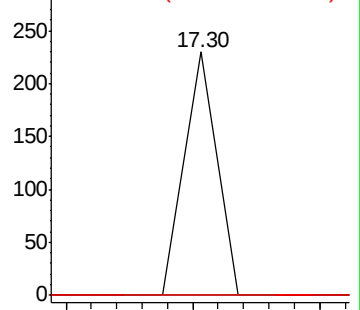
179 0.0 13.3 19.9#



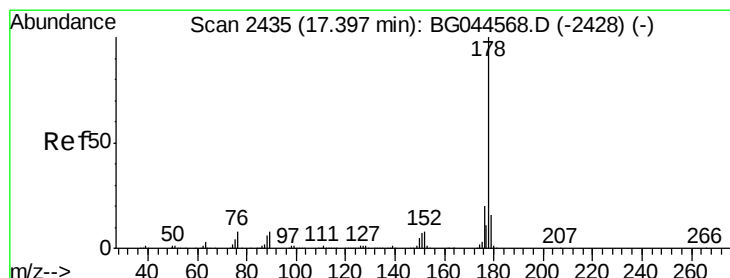
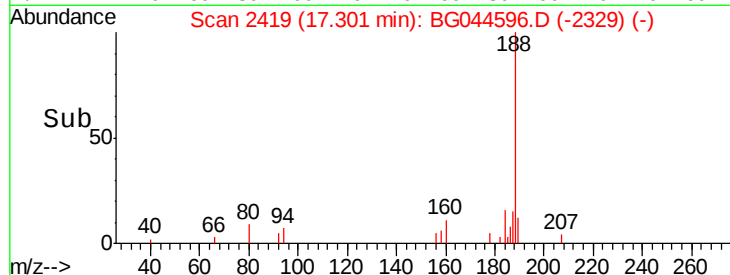
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 17.28 17.30 17.32



#72

Anthracene

Concen: 0.004 ng

RT: 17.30 min Scan# 2419

Delta R.T. -0.10 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

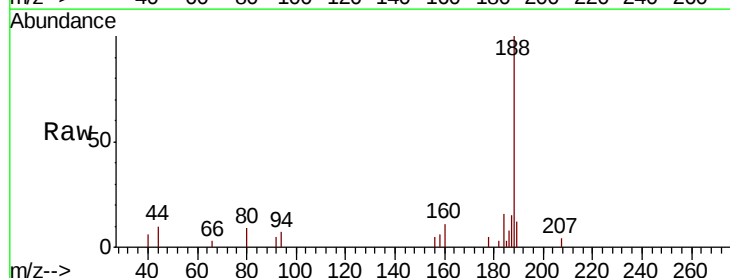
Tgt Ion:178 Resp: 81

Ion Ratio Lower Upper

178 100

176 0.0 15.9 23.9#

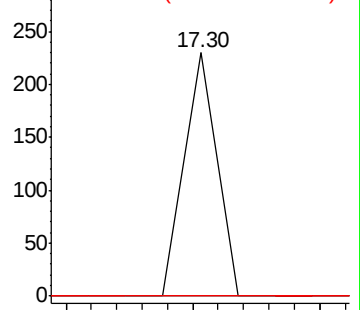
179 0.0 13.1 19.7#



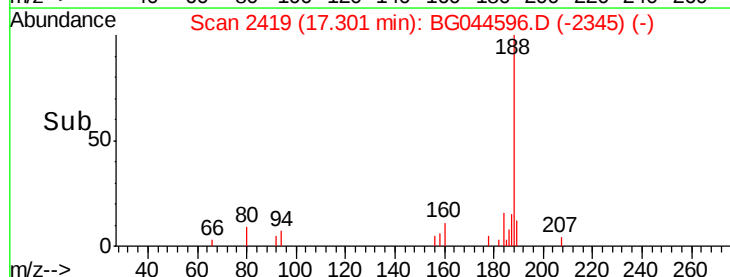
Abundance Ion 178.00 (177.70 to 178.70): E

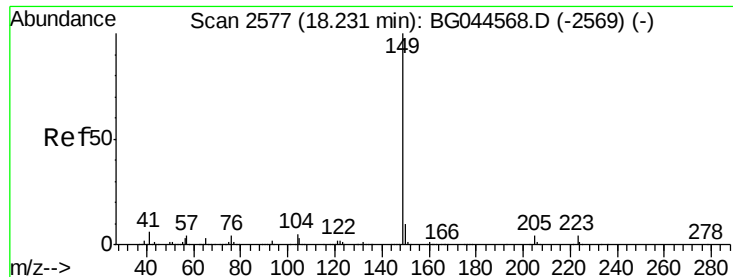
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 17.28 17.30 17.32





#74

Di-n-butylphthalate

Concen: 0.022 ng

RT: 18.23 min Scan# 2577

Delta R.T. -0.00 min

Lab File: BG044596.D

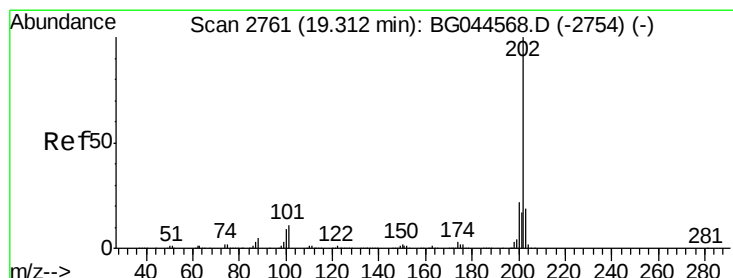
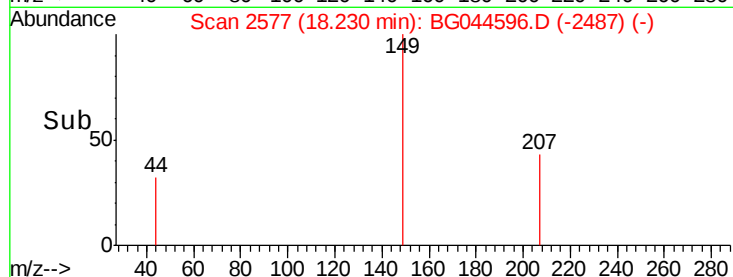
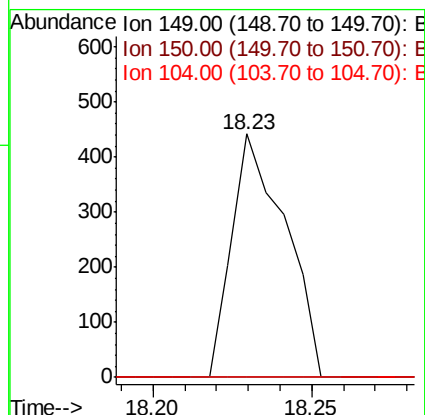
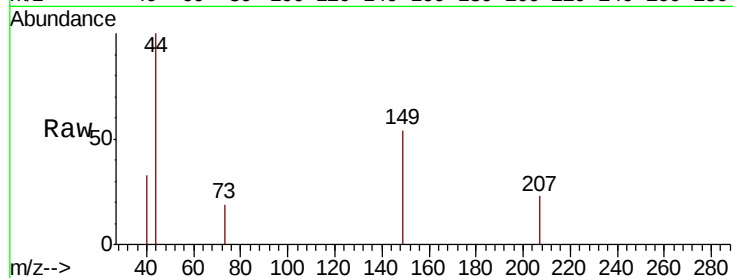
Acq: 26 Feb 2020 3:51

Instrument :

BNA\_G

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:149 | Resp: | 516       |
| Ion Ratio   | Lower | Upper     |
| 149         | 100   |           |
| 150         | 0.0   | 7.8 11.8# |
| 104         | 0.0   | 4.0 6.0#  |



#75

Fluoranthene

Concen: 0.020 ng

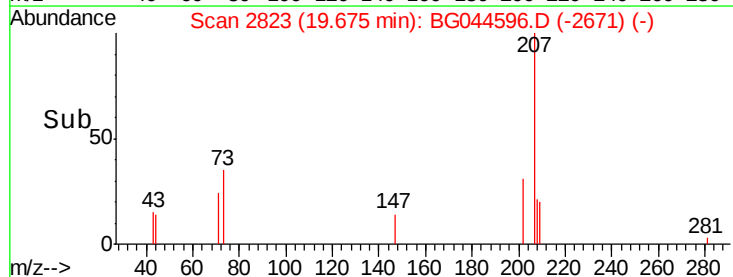
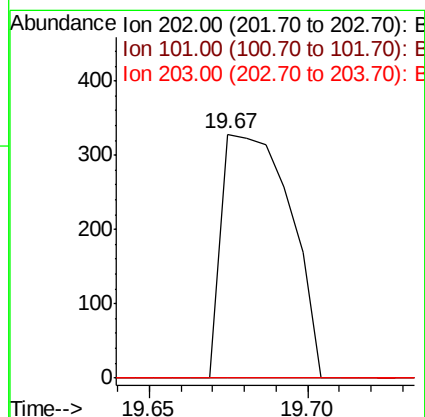
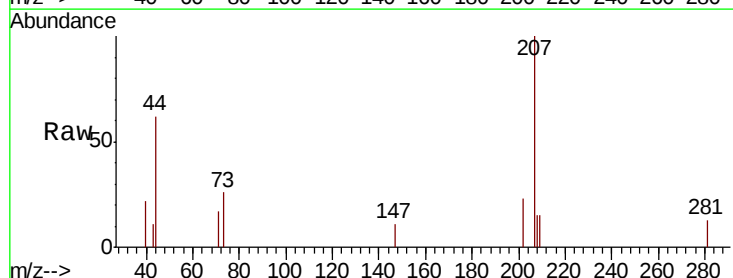
RT: 19.67 min Scan# 2823

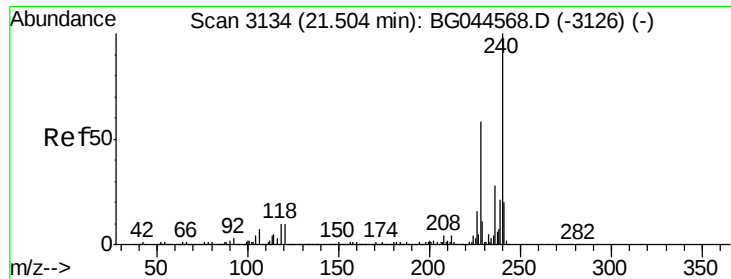
Delta R.T. 0.36 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 490      |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 0.0   | 0.0 31.0 |
| 203         | 0.0   | 0.0 39.2 |

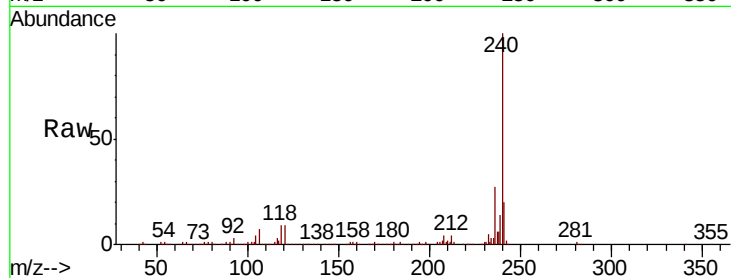




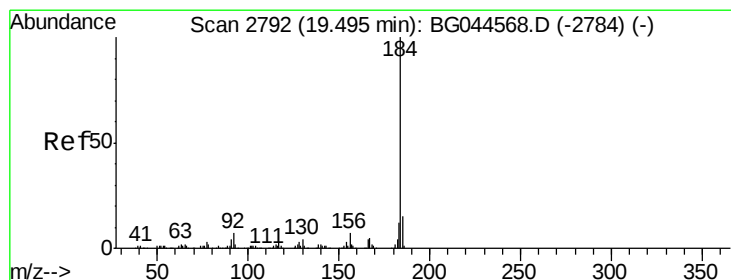
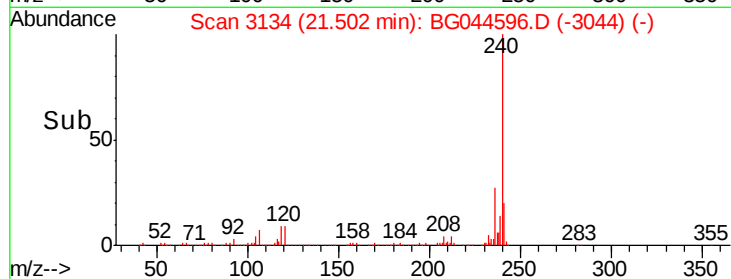
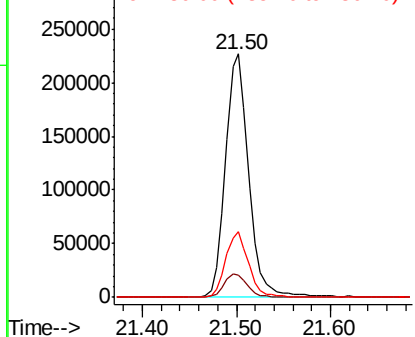
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.50 min Scan# 3134  
Delta R.T. -0.00 min  
Lab File: BG044596.D  
Acq: 26 Feb 2020 3:51

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:240 Resp: 390362  
Ion Ratio Lower Upper  
240 100  
120 9.3 8.3 12.5  
236 26.8 22.3 33.5

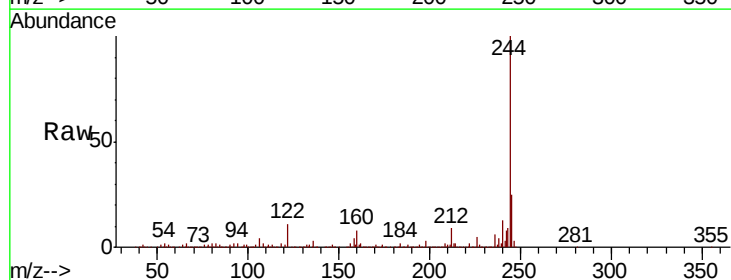


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

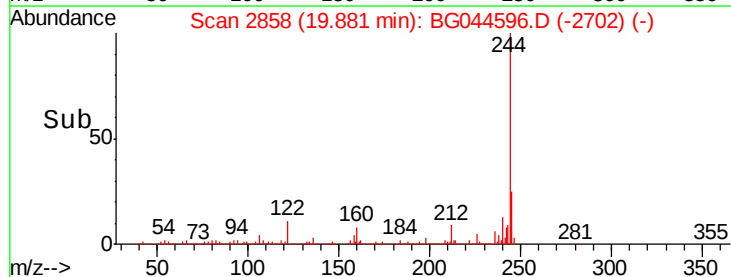
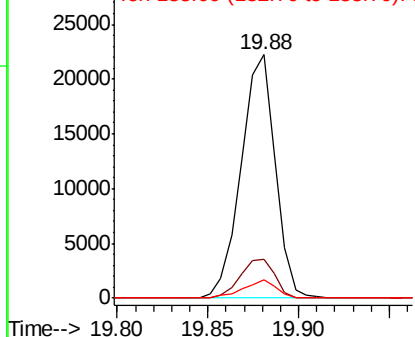


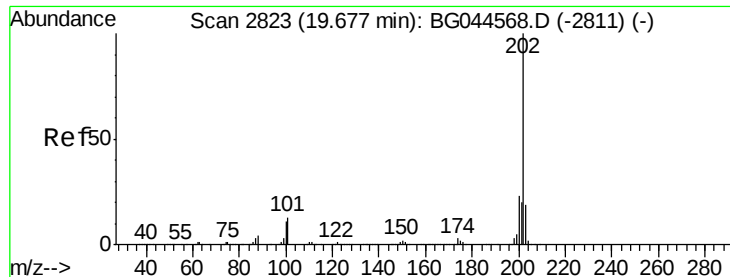
#77  
Benzidine  
Concen: 2.173 ng  
RT: 19.88 min Scan# 2858  
Delta R.T. 0.39 min  
Lab File: BG044596.D  
Acq: 26 Feb 2020 3:51

Tgt Ion:184 Resp: 29052  
Ion Ratio Lower Upper  
184 100  
185 16.0 12.2 18.4  
183 7.7 9.9 14.9#



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





#78

Pvrene

Concen: 0.017 ng

RT: 19.67 min Scan# 2823

Delta R.T. -0.00 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

Instrument :

BNA\_G

ClientSampleId :

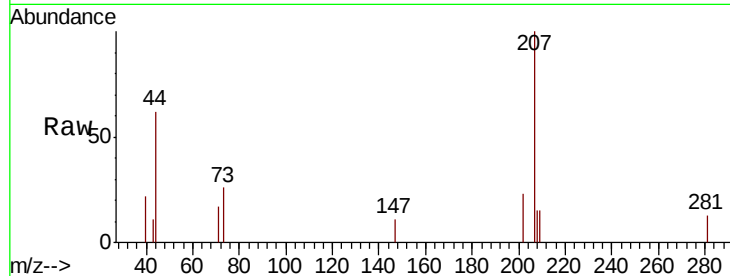
Tot Ion:202 Resp: 490

Ion Ratio Lower Upper

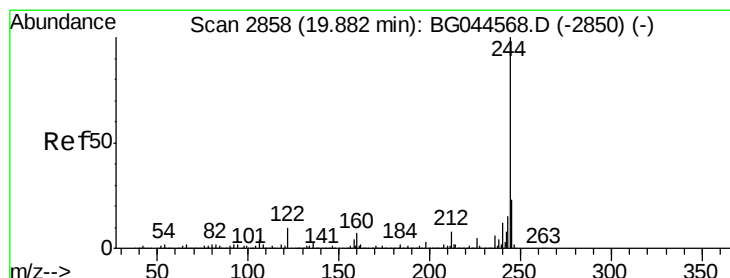
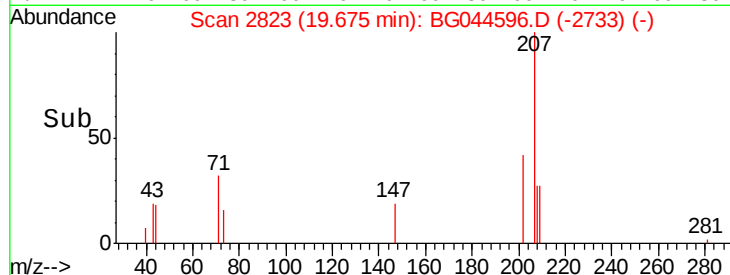
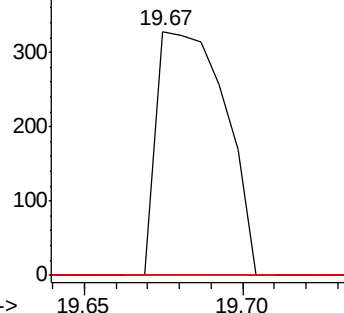
202 100

200 0.0 18.6 28.0#

203 0.0 15.3 22.9#



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 88.896 ng

RT: 19.88 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

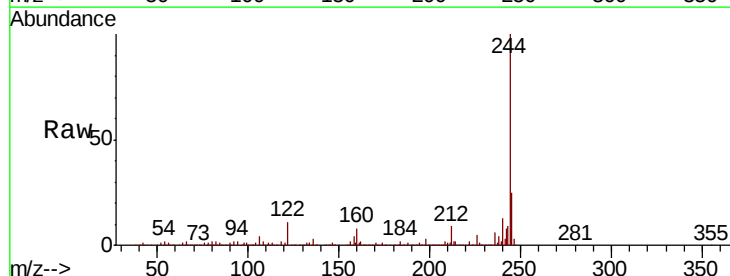
Tgt Ion:244 Resp: 1833098

Ion Ratio Lower Upper

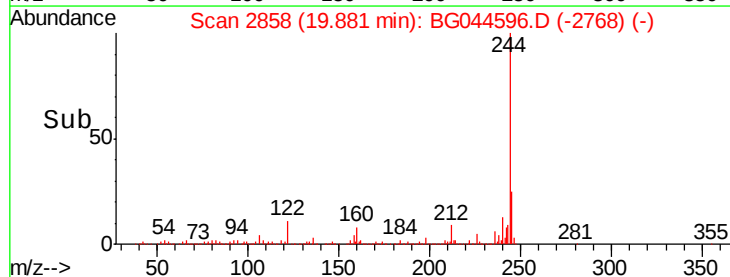
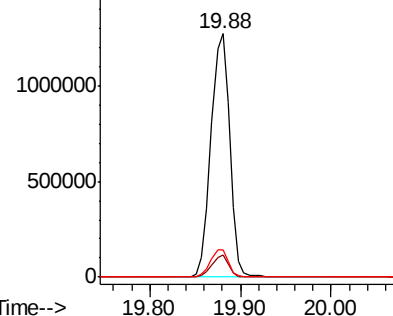
244 100

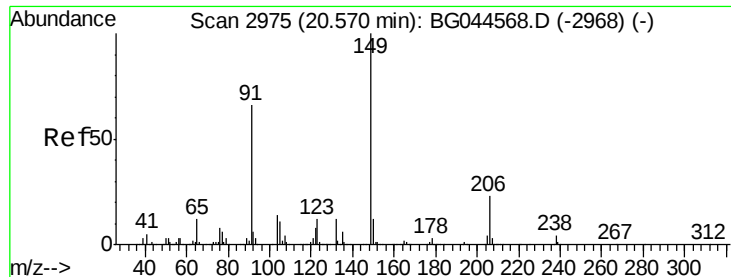
212 8.9 6.5 9.7

122 11.5 8.2 12.4



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





#80

Butylbenzylphthalate

Concen: 0.020 ng

RT: 20.57 min Scan# 2975

Delta R.T. -0.00 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

Instrument :

BNA\_G

ClientSampleId :

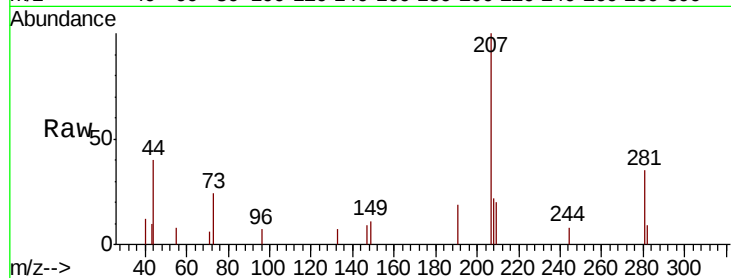
Tot Ion:149 Resp: 250

Ion Ratio Lower Upper

149 100

91 0.0 52.7 79.1#

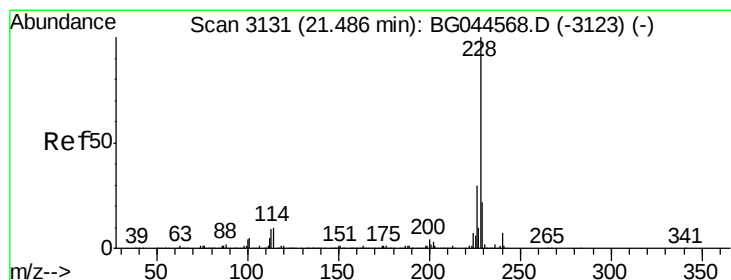
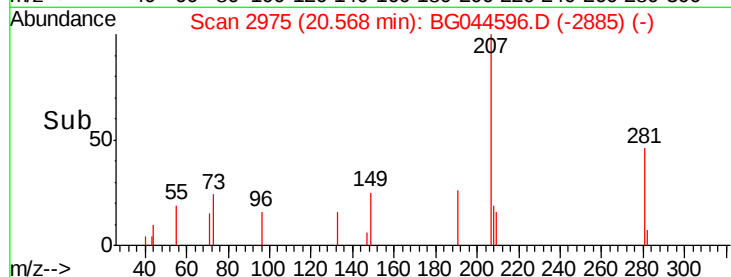
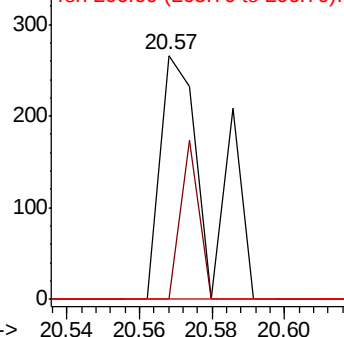
206 0.0 18.6 28.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BG0

Ion 206.00 (205.70 to 206.70): E



#81

Benzo(a)anthracene

Concen: 0.048 ng

RT: 21.51 min Scan# 3135

Delta R.T. 0.02 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

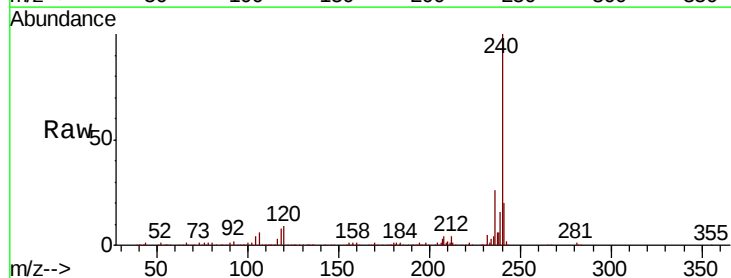
Tgt Ion:228 Resp: 1327

Ion Ratio Lower Upper

228 100

226 0.0 23.8 35.8#

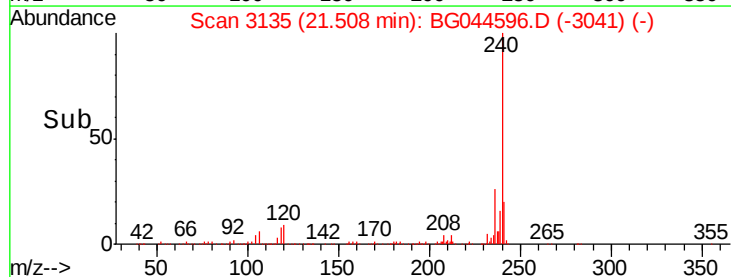
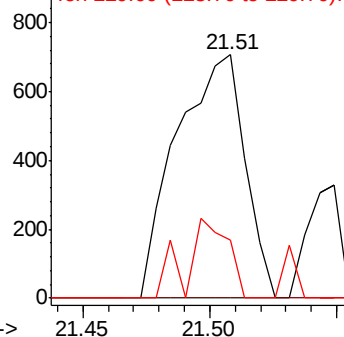
229 24.0 17.2 25.8

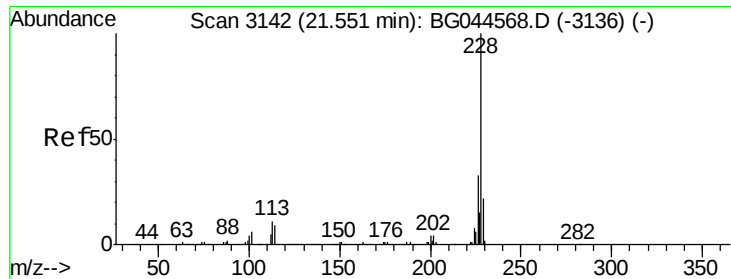


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

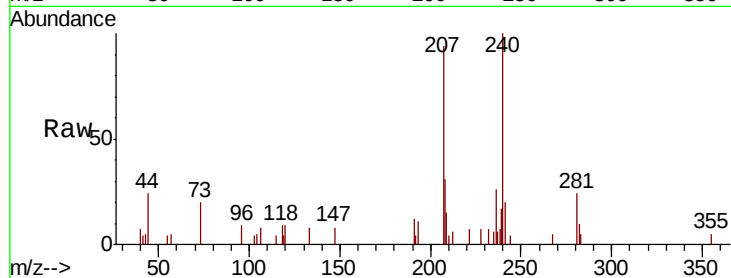




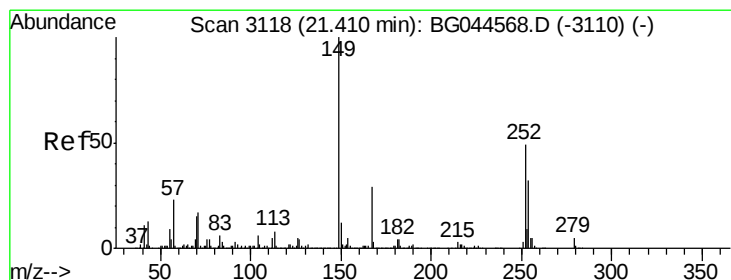
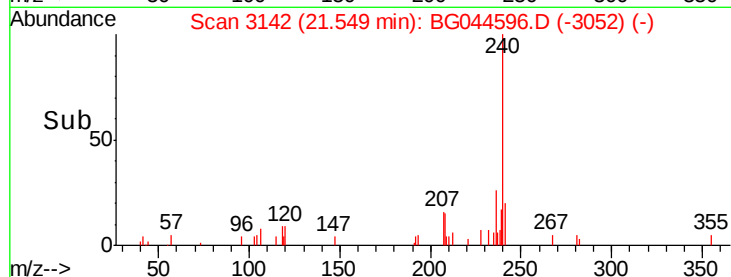
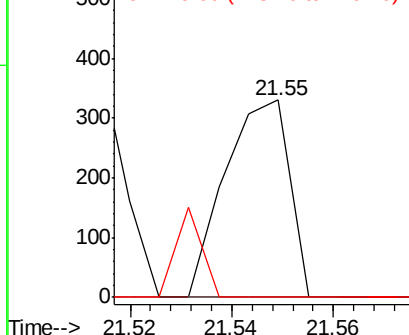
#83  
 Chrysene  
 Concen: 0.011 ng  
 RT: 21.55 min Scan# 3142  
 Delta R.T. -0.00 min  
 Lab File: BG044596.D  
 Acq: 26 Feb 2020 3:51

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 0.0   | 26.1  | 39.1# |
| 229     | 0.0   | 17.2  | 25.8# |

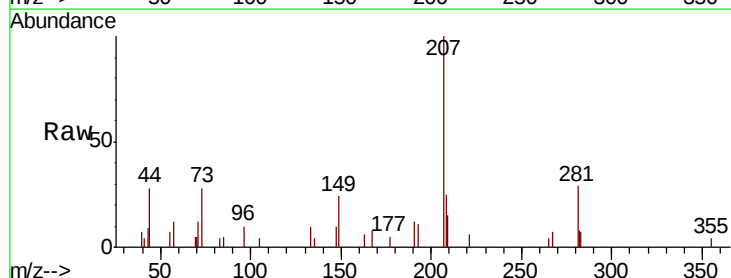


Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 226.00 (225.70 to 226.70): E  
 Ion 229.00 (228.70 to 229.70): E

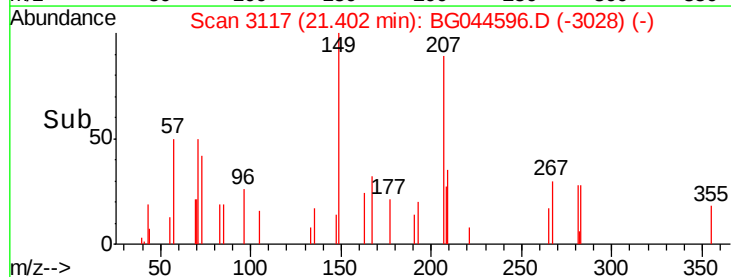
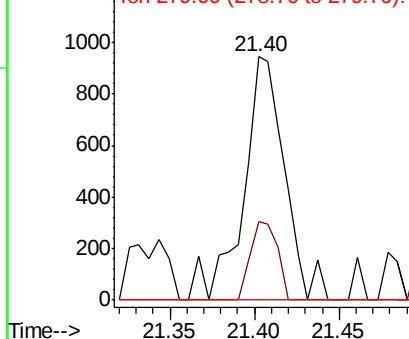


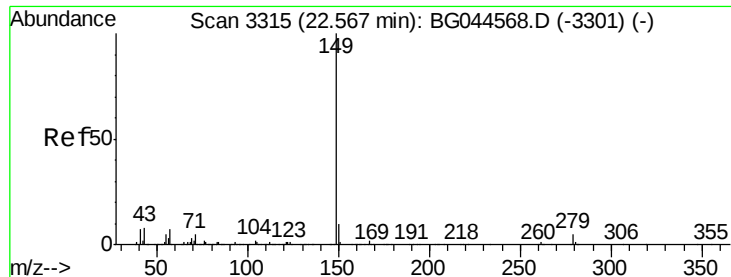
#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.094 ng  
 RT: 21.40 min Scan# 3117  
 Delta R.T. -0.01 min  
 Lab File: BG044596.D  
 Acq: 26 Feb 2020 3:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 32.2  | 23.4  | 35.0  |
| 279     | 0.0   | 4.2   | 6.4#  |



Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E





#85

Di-n-octyl phthalate

Concen: 0.029 ng

RT: 22.56 min Scan# 3314

Delta R.T. -0.01 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

Instrument :

BNA\_G

ClientSampled :

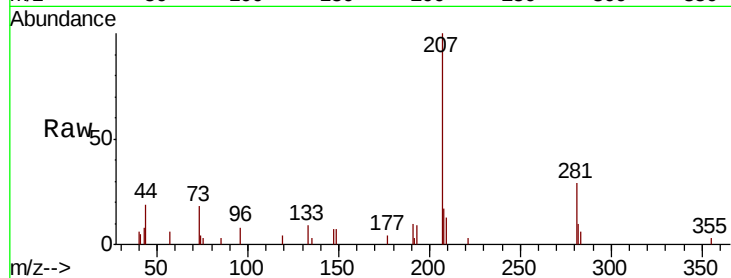
Tot Ion:149 Resp: 885

Ion Ratio Lower Upper

149 100

167 0.0 1.3 1.9#

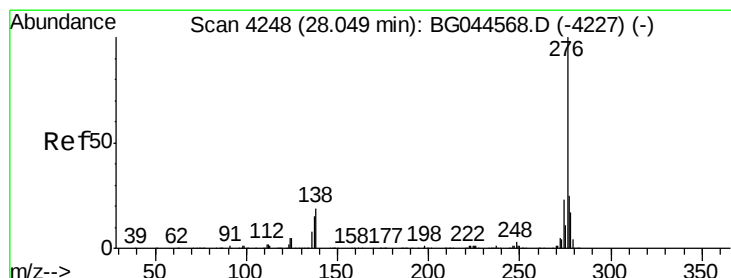
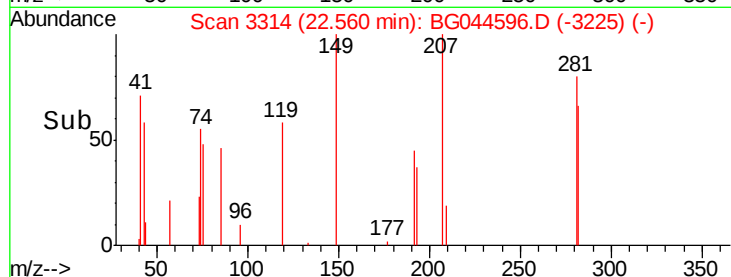
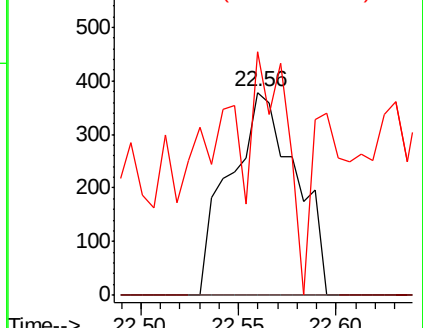
43 59.1 6.6 10.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BG



#86

Indeno(1,2,3-cd)pyrene

Concen: 0.002 ng

RT: 28.14 min Scan# 4263

Delta R.T. 0.09 min

Lab File: BG044596.D

Acq: 26 Feb 2020 3:51

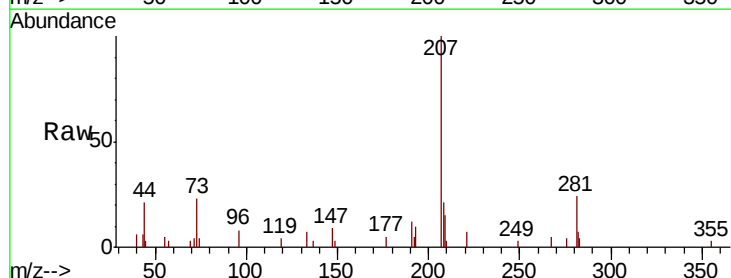
Tgt Ion:276 Resp: 69

Ion Ratio Lower Upper

276 100

138 0.0 18.2 27.4#

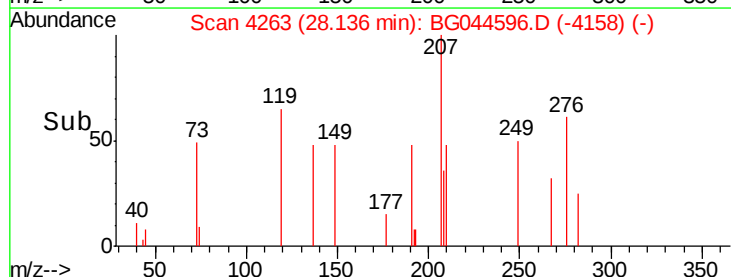
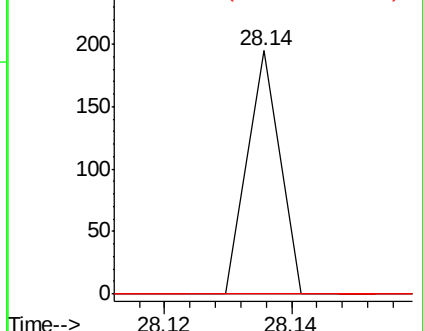
277 0.0 20.7 31.1#

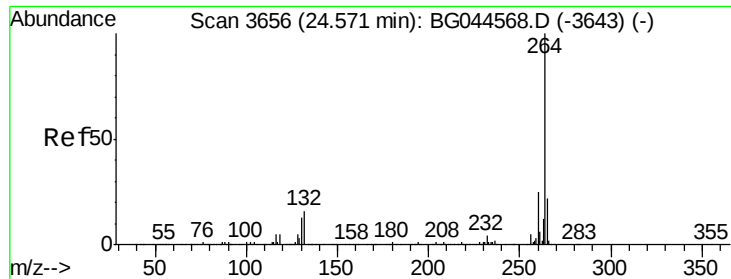


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

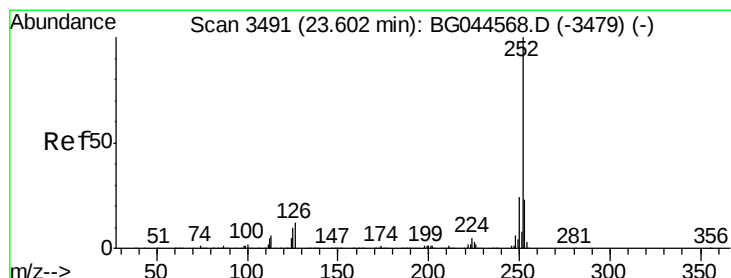
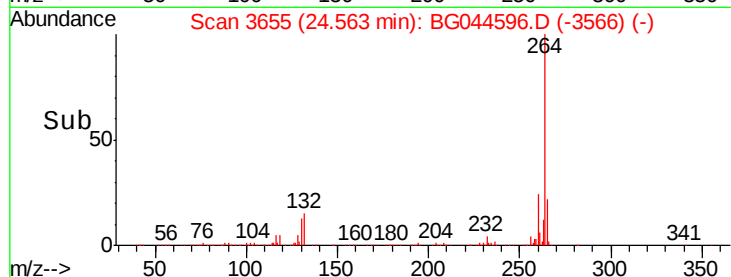
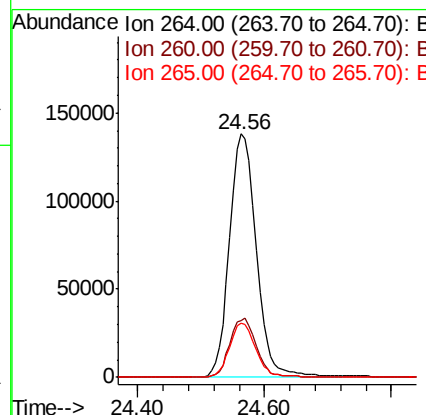
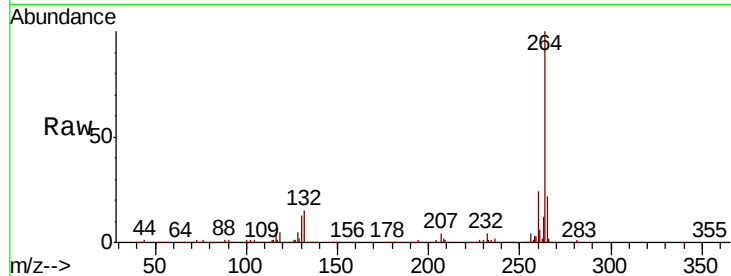




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.56 min Scan# 3655  
Delta R.T. -0.01 min  
Lab File: BG044596.D  
Acq: 26 Feb 2020 3:51

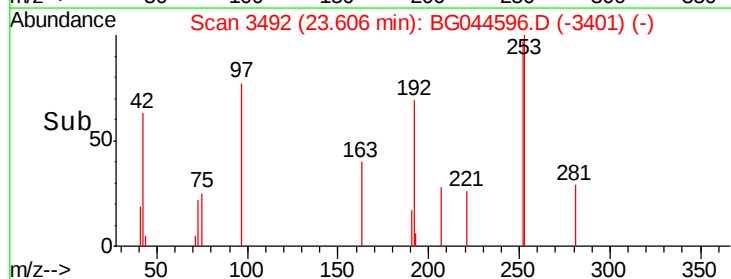
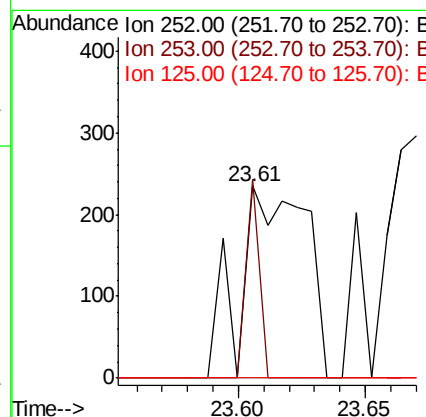
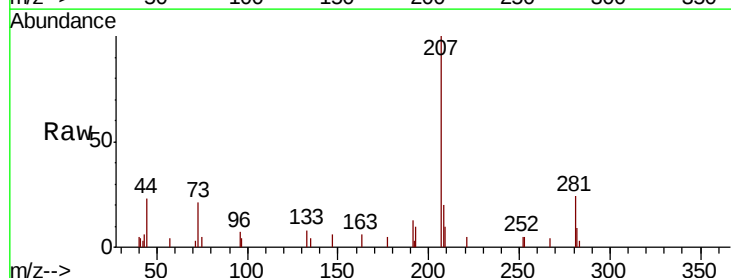
Instrument :  
BNA\_G  
ClientSampleId :

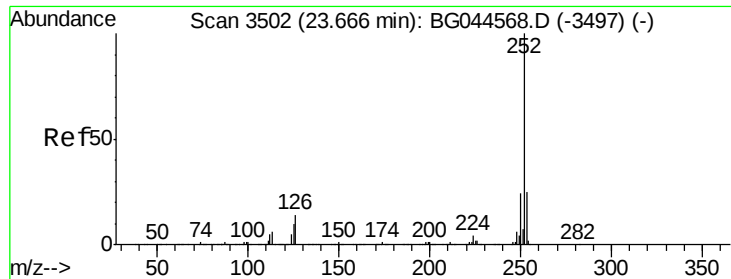
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.7  | 29.5  |
| 265     | 22.3  | 17.8  | 26.8  |



#88  
Benzo(b)fluoranthene  
Concen: 0.016 ng  
RT: 23.61 min Scan# 3492  
Delta R.T. 0.00 min  
Lab File: BG044596.D  
Acq: 26 Feb 2020 3:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 103.4 | 18.4  | 27.6# |
| 125     | 0.0   | 7.9   | 11.9# |

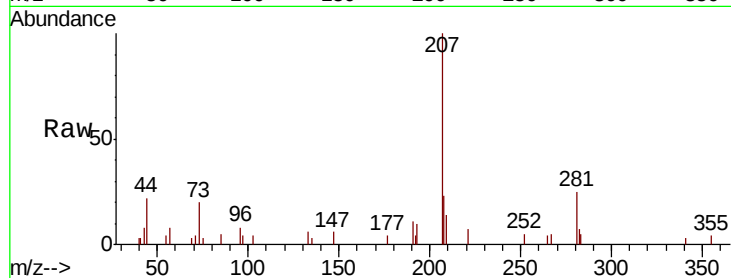




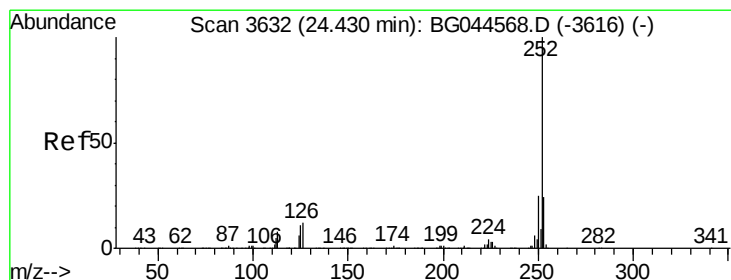
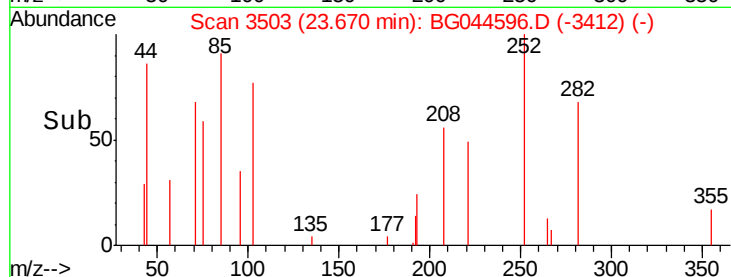
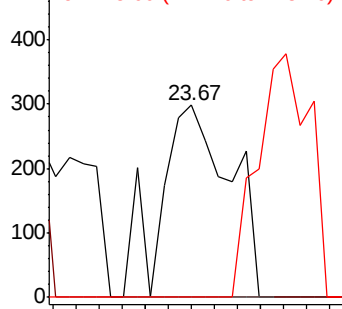
#89  
Benzo(k)fluoranthene  
Concen: 0.024 ng  
RT: 23.67 min Scan# 3503  
Delta R.T. 0.00 min  
Lab File: BG044596.D  
Acq: 26 Feb 2020 3:51

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:252 Resp: 632  
Ion Ratio Lower Upper  
252 100  
253 0.0 19.0 28.6#  
125 0.0 7.8 11.8#

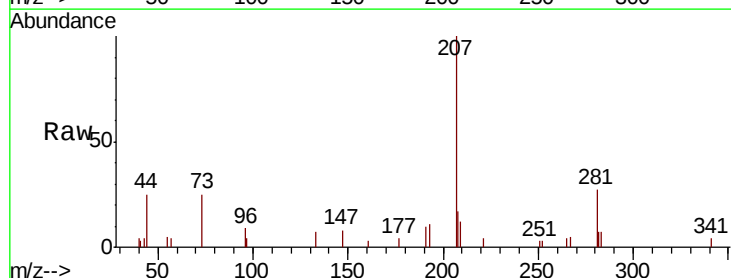


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#90  
Benzo(a)pyrene  
Concen: 0.002 ng  
RT: 24.43 min Scan# 3632  
Delta R.T. -0.00 min  
Lab File: BG044596.D  
Acq: 26 Feb 2020 3:51

Tgt Ion:252 Resp: 55  
Ion Ratio Lower Upper  
252 100  
253 0.0 19.0 28.4#  
125 0.0 8.5 12.7#



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

