

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG061419\  
 Data File : BG041258.D  
 Acq On : 14 Jun 2019 18:08  
 Operator : HP/JU  
 Sample : K3333-05RE  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CONCRETE-5

Quant Time: Jun 15 03:32:26 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG061419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 14 15:26:06 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.09  | 152  | 37813    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 10.91 | 136  | 159260   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 14.72 | 164  | 116357   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 17.47 | 188  | 272422   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 21.74 | 240  | 253469   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 25.06 | 264  | 187268   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.63  | 112  | 91752    | 44.71 | ng    | -0.01    |
| 7) Phenol-d6                | 7.24  | 99   | 244600   | 77.97 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.27  | 82   | 275668   | 75.12 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 16.21 | 330  | 24252    | 15.07 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.35 | 172  | 669391   | 76.15 | ng    | -0.01    |
| 79) Terphenyl-d14           | 20.06 | 244  | 1064649  | 82.35 | ng    | -0.01    |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.48  | 88   | 134      | 0.157  | ng    | # 1    |
| 3) Pyridine                    | 3.98  | 79   | 75       | 0.030  | ng    | # 1    |
| 4) n-Nitrosodimethylamine      | 3.84  | 42   | 622      | 0.478  | ng    | # 1    |
| 6) Aniline                     | 7.61  | 93   | 68       | 0.017  | ng    | # 1    |
| 9) Benzaldehyde                | 7.25  | 77   | 605      | 0.303  | ng    | # 1    |
| 10) Phenol                     | 7.27  | 94   | 942      | 0.280  | ng    | # 29   |
| 11) bis(2-Chloroethyl)ether    | 7.61  | 93   | 68       | 0.028  | ng    | # 1    |
| 15) Benzyl Alcohol             | 8.42  | 79   | 4365     | 1.512  | ng    | # 37   |
| 16) 2,2'-oxybis(1-Chloropropan | 8.50  | 45   | 54       | 0.014  | ng    | # 69   |
| 19) n-Nitroso-di-n-propylamine | 9.27  | 70   | 40146    | 16.719 | ng    | # 75   |
| 24) Nitrobenzene               | 9.27  | 77   | 947      | 0.257  | ng    | # 44   |
| 25) Isophorone                 | 9.83  | 82   | 9884     | 1.528  | ng    | # 94   |
| 26) 2-Nitrophenol              | 9.83  | 139  | 59       | 0.038  | ng    | # 27   |
| 28) bis(2-Chloroethoxy)methane | 10.66 | 93   | 63       | 0.018  | ng    | # 49   |
| 36) 4-Chloro-3-methylphenol    | 12.11 | 107  | 72       | 0.022  | ng    | # 23   |
| 46) 1,1'-Biphenyl              | 13.56 | 154  | 645      | 0.072  | ng    | # 81   |
| 48) 2-Nitroaniline             | 14.17 | 65   | 1550     | 0.571  | ng    | # 1    |
| 49) Acenaphthylene             | 14.84 | 152  | 55       | 0.005  | ng    | # 59   |
| 50) Dimethylphthalate          | 14.17 | 163  | 121140   | 12.352 | ng    | # 99   |
| 51) 2,6-Dinitrotoluene         | 14.17 | 165  | 1346     | 0.640  | ng    | # 29   |
| 52) Acenaphthene               | 14.73 | 154  | 431      | 0.064  | ng    | # 5    |
| 57) 2,4-Dinitrotoluene         | 14.72 | 165  | 14080    | 4.823  | ng    | # 22   |
| 58) Fluorene                   | 16.21 | 166  | 557      | 0.063  | ng    | # 53   |
| 63) Azobenzene                 | 16.08 | 77   | 54       | 0.006  | ng    | # 47   |
| 65) 4,6-Dinitro-2-methylphenol | 16.23 | 198  | 69       | 8.641  | ng    | # 36   |
| 66) n-Nitrosodiphenylamine     | 16.21 | 169  | 639      | 0.084  | ng    | # 45   |
| 67) 4-Bromophenyl-phenylether  | 16.21 | 248  | 1539     | 0.426  | ng    | # 1    |
| 71) Phenanthrene               | 17.51 | 178  | 334      | 0.023  | ng    | # 60   |
| 72) Anthracene                 | 17.51 | 178  | 334      | 0.023  | ng    | # 59   |
| 74) Di-n-butylphthalate        | 18.41 | 149  | 690      | 0.046  | ng    | # 77   |
| 75) Fluoranthene               | 19.53 | 202  | 369      | 0.020  | ng    | # 64   |
| 77) Benzidine                  | 20.06 | 184  | 16812    | 4.272  | ng    | # 94   |
| 78) Pyrene                     | 19.89 | 202  | 242      | 0.014  | ng    | # 55   |
| 80) Butylbenzylphthalate       | 20.74 | 149  | 217      | 0.033  | ng    | # 24   |

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 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CONCRETE-5

Quant Time: Jun 15 03:32:26 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG061419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 14 15:26:06 2019  
 Response via : Initial Calibration

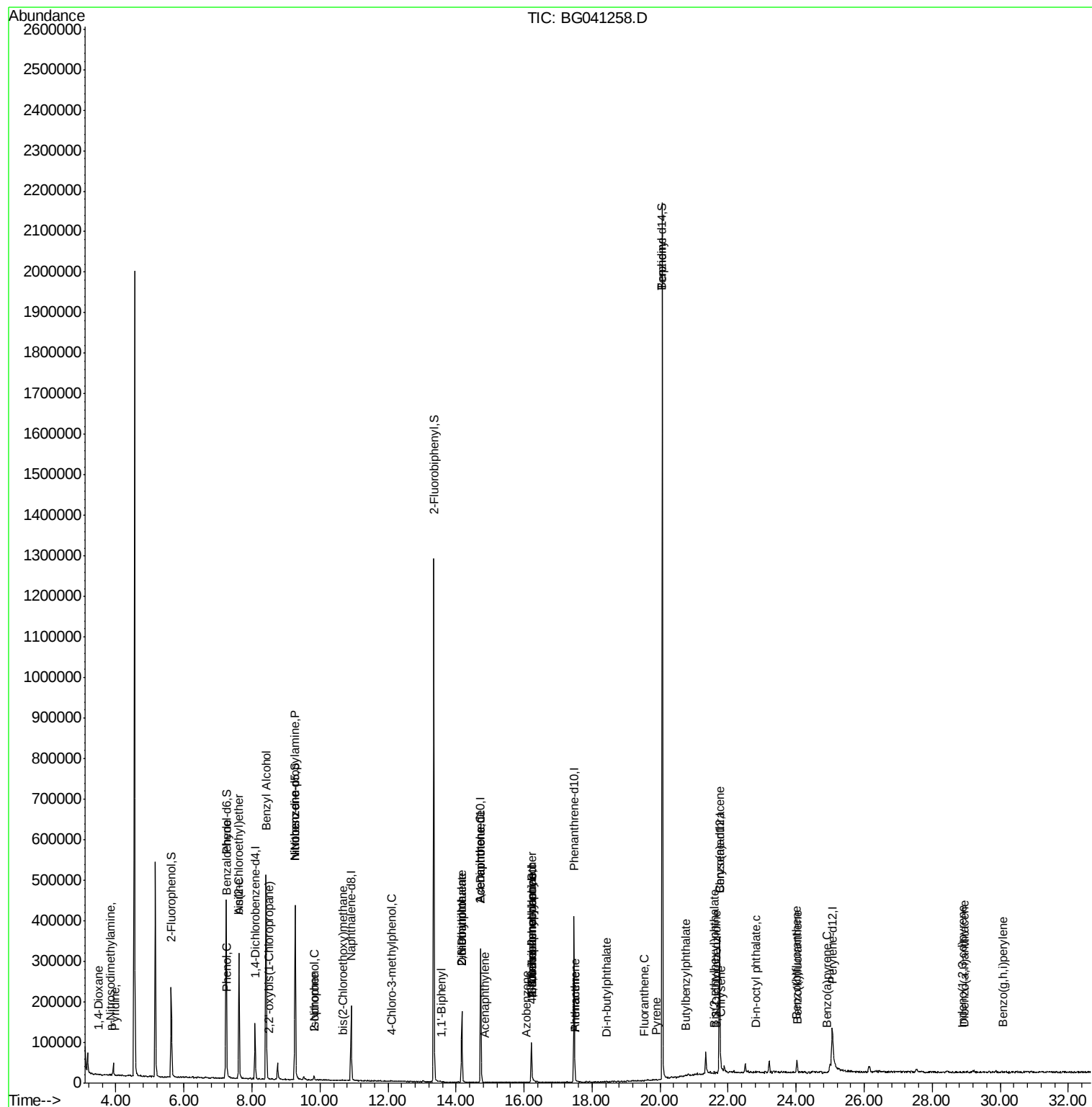
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 81) Benzo(a)anthracene         | 21.74 | 228  | 1356     | 0.081 | ng    | # 52     |
| 82) 3,3'-Dichlorobenzidine     | 21.64 | 252  | 88       | 0.017 | ng    | # 24     |
| 83) Chrysene                   | 21.79 | 228  | 504      | 0.030 | ng    | # 49     |
| 84) Bis(2-ethylhexyl)phthalate | 21.59 | 149  | 976      | 0.105 | ng    | # 50     |
| 85) Di-n-octyl phthalate       | 22.82 | 149  | 549      | 0.036 | ng    | # 1      |
| 86) Indeno(1,2,3-cd)pyrene     | 28.88 | 276  | 331      | 0.033 | ng    | # 56     |
| 88) Benzo(b)fluoranthene       | 24.01 | 252  | 580      | 0.051 | ng    | # 13     |
| 89) Benzo(k)fluoranthene       | 24.05 | 252  | 386      | 0.028 | ng    | # 60     |
| 90) Benzo(a)pyrene             | 24.90 | 252  | 271      | 0.024 | ng    | # 69     |
| 91) Dibenzo(a,h)anthracene     | 28.92 | 278  | 363      | 0.057 | ng    | # 58     |
| 92) Benzo(g,h,i)perylene       | 30.07 | 276  | 191      | 0.035 | ng    | # 57     |

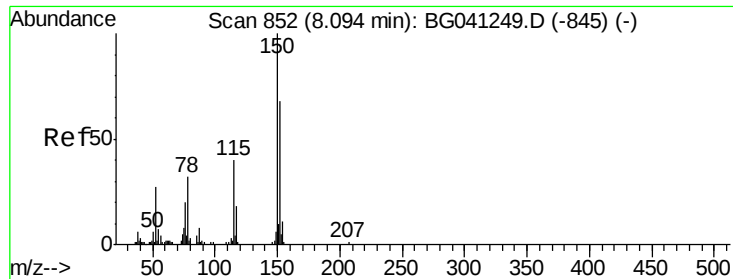
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.09 min Scan# 851

Delta R.T. -0.02 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

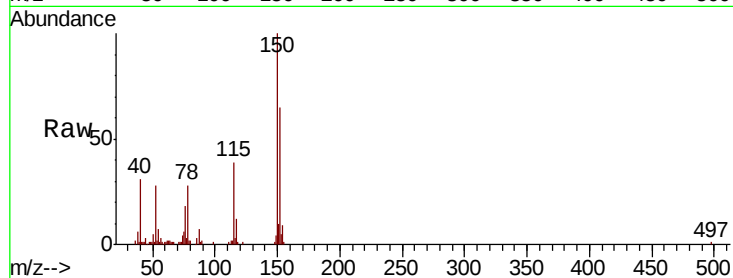
Tgt Ion:152 Resp: 37813

Ion Ratio Lower Upper

152 100

150 154.4 120.6 180.8

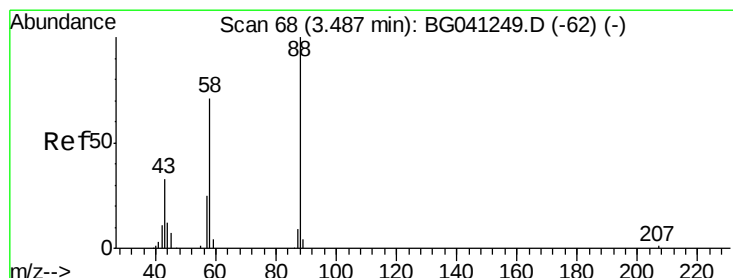
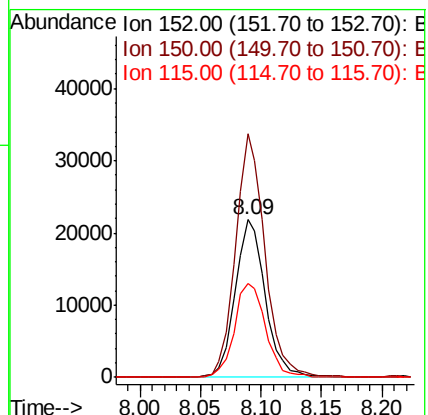
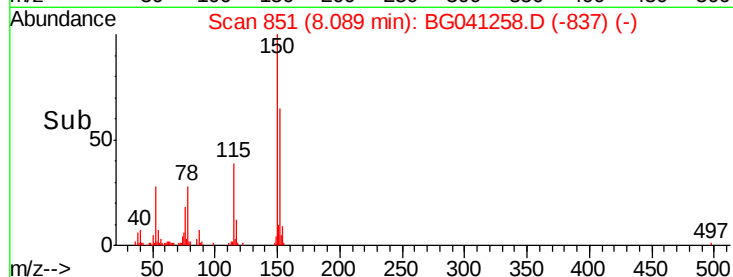
115 59.9 45.1 67.7



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: 0.157 ng

RT: 3.48 min Scan# 67

Delta R.T. -0.02 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

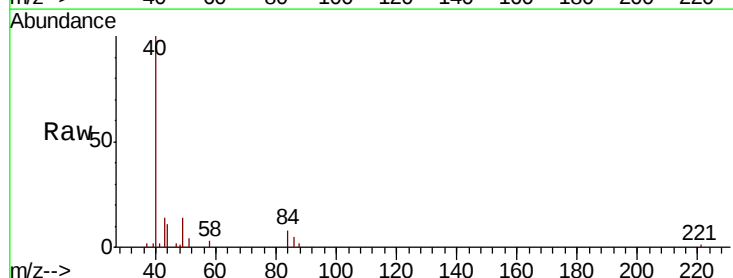
Tgt Ion: 88 Resp: 134

Ion Ratio Lower Upper

88 100

58 179.1 59.0 88.6#

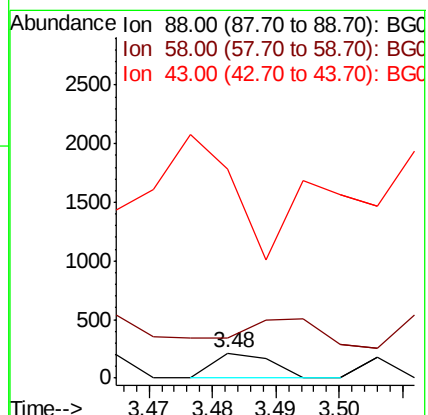
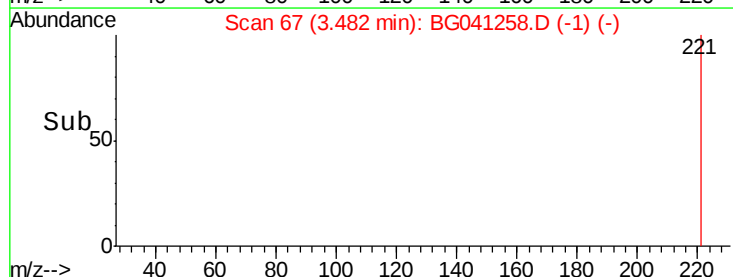
43 0.0 27.2 40.8#

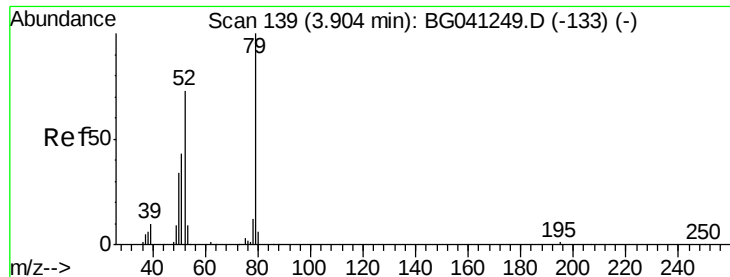


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC





#3

Pyridine

Concen: 0.030 ng

RT: 3.98 min Scan# 152

Delta R.T. 0.07 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

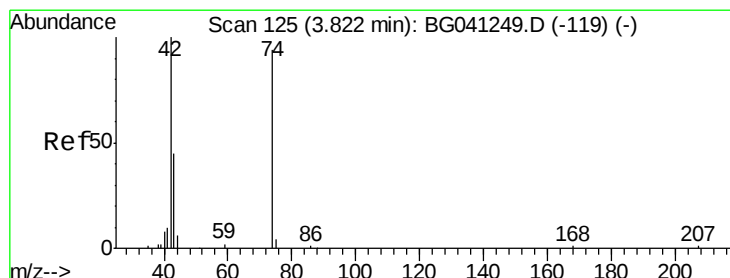
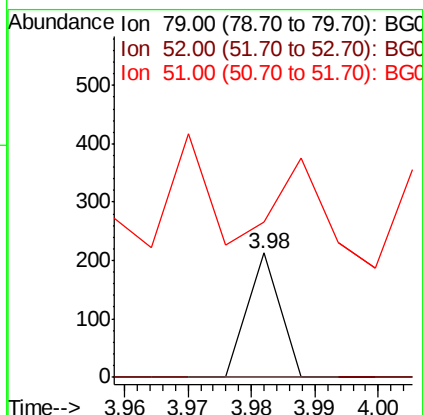
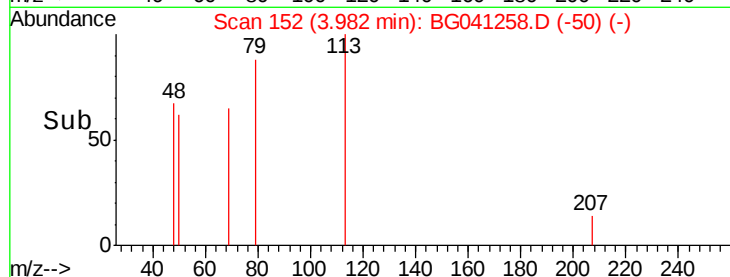
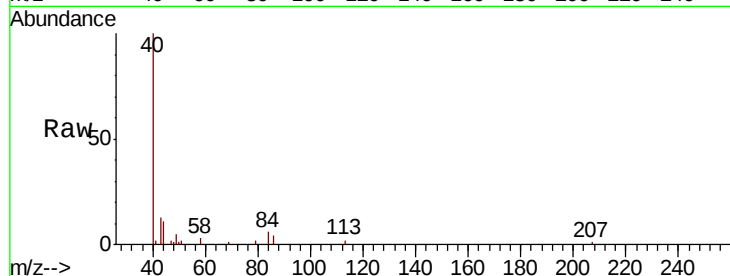
Tgt Ion: 79 Resp: 75

Ion Ratio Lower Upper

79 100

52 0.0 64.8 97.2#

51 124.4 35.3 52.9#



#4

n-Nitrosodimethylamine

Concen: 0.478 ng

RT: 3.84 min Scan# 127

Delta R.T. 0.00 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

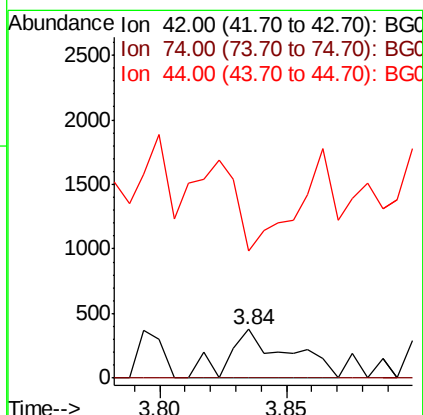
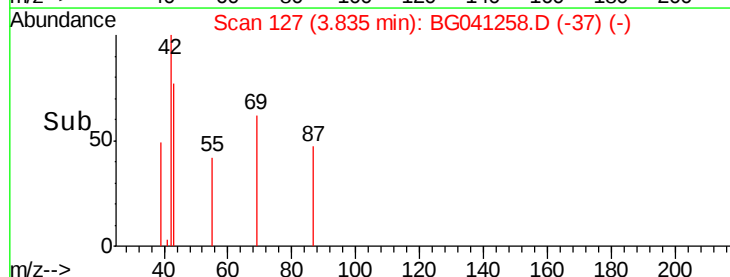
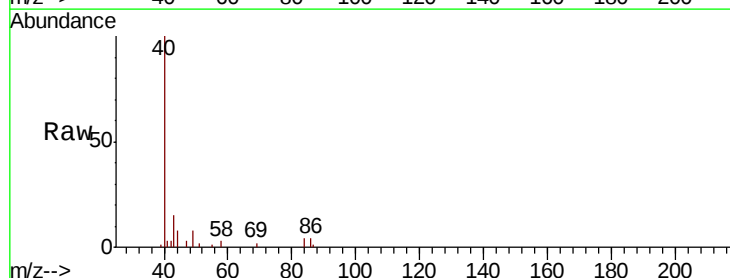
Tgt Ion: 42 Resp: 622

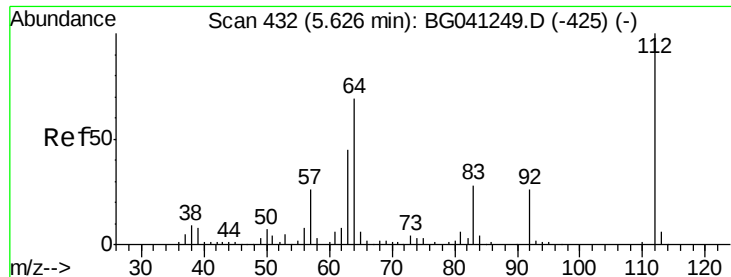
Ion Ratio Lower Upper

42 100

74 0.0 91.8 137.6#

44 262.9 6.0 9.0#





#5

2-Fluorophenol

Concen: 44.711 ng

RT: 5.63 min Scan# 432

Delta R.T. -0.01 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

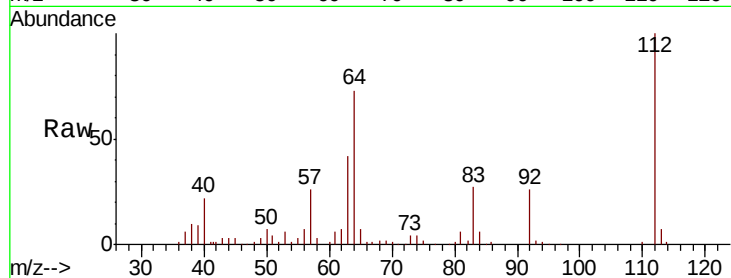
Tgt Ion: 112 Resp: 91752

Ion Ratio Lower Upper

112 100

64 73.4 56.2 84.2

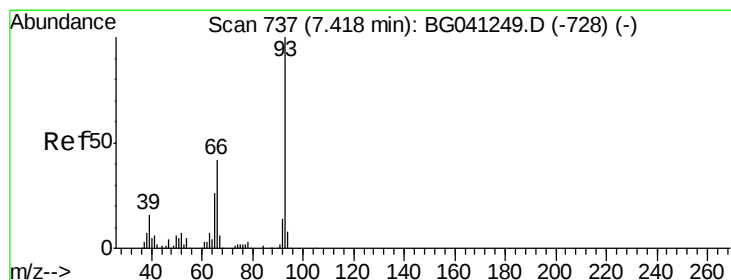
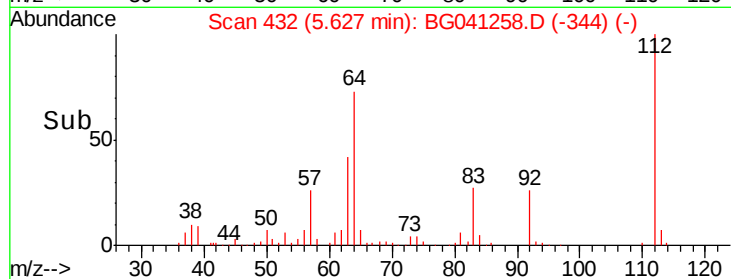
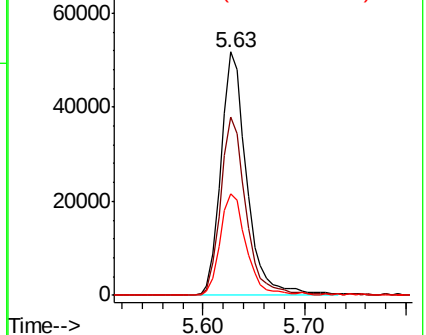
63 41.8 32.8 49.2



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#6

Aniline

Concen: 0.017 ng

RT: 7.61 min Scan# 769

Delta R.T. 0.18 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

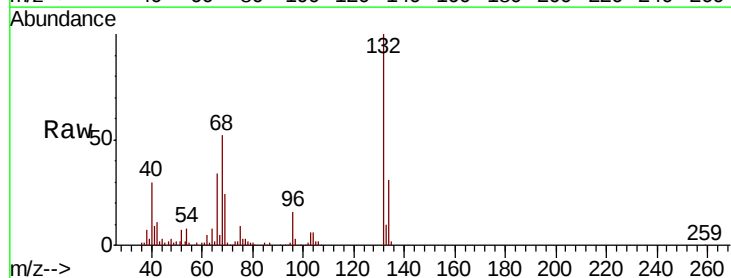
Tgt Ion: 93 Resp: 68

Ion Ratio Lower Upper

93 100

66 8804.2 33.8 50.8#

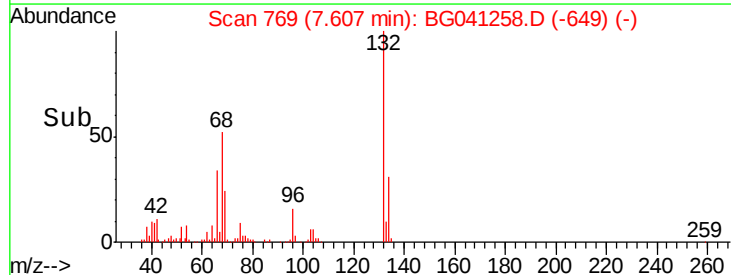
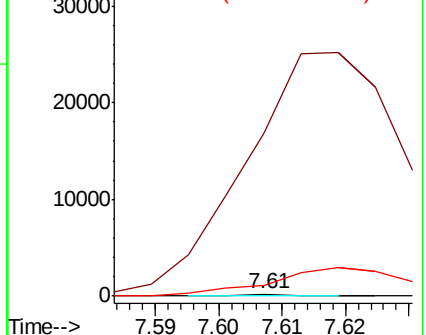
65 552.1 18.3 27.5#

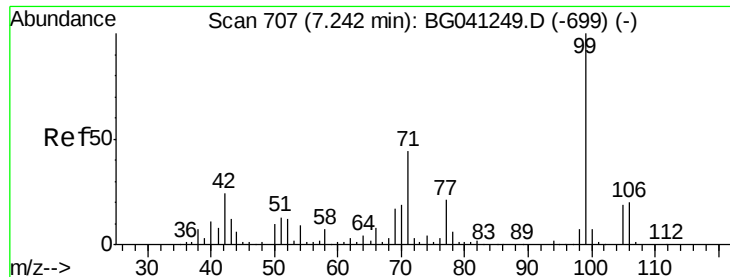


Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

Ion 65.00 (64.70 to 65.70): BGC





#7

Phenol-d6

Concen: 77.968 ng

RT: 7.24 min Scan# 707

Delta R.T. -0.00 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

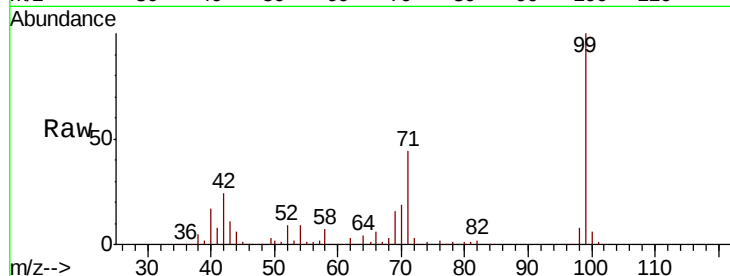
Tgt Ion: 99 Resp: 244600

Ion Ratio Lower Upper

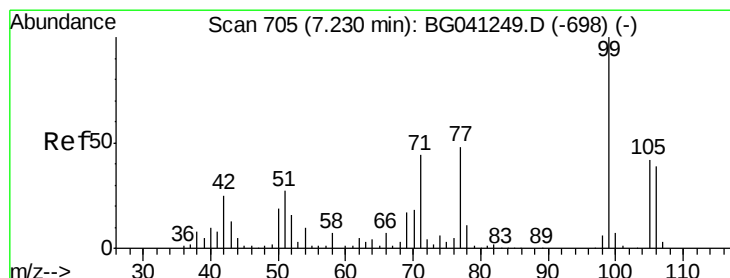
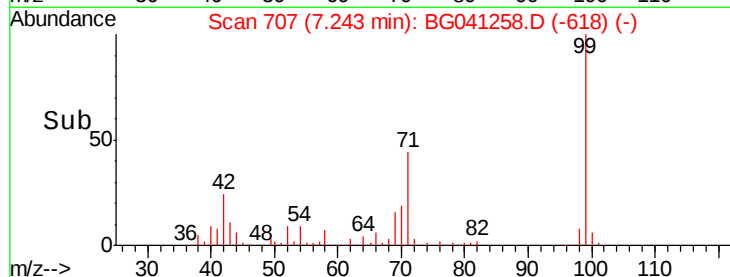
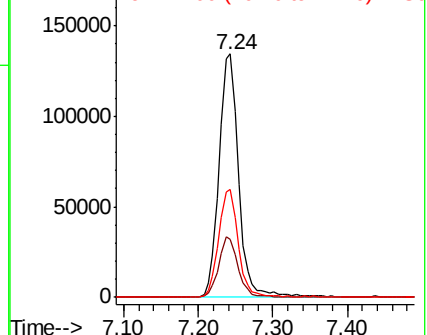
99 100

42 24.1 17.9 26.9

71 44.3 35.4 53.0



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: 0.303 ng

RT: 7.25 min Scan# 709

Delta R.T. 0.01 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

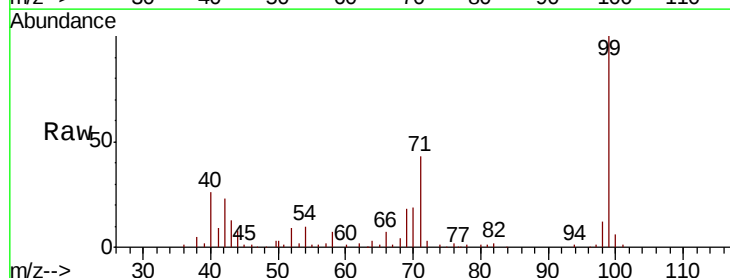
Tgt Ion: 77 Resp: 605

Ion Ratio Lower Upper

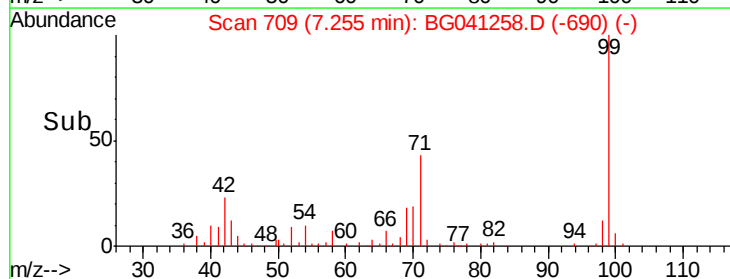
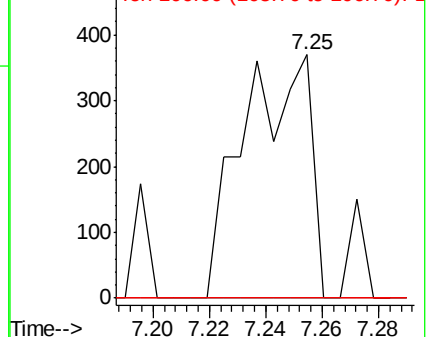
77 100

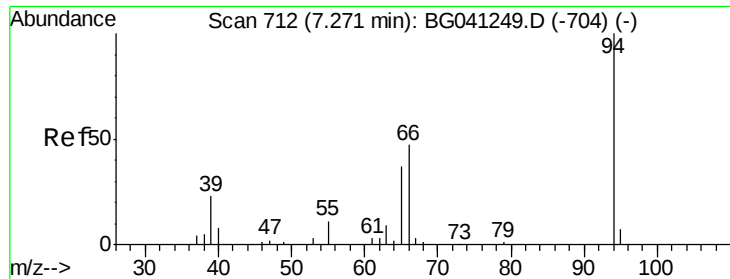
105 0.0 78.9 118.9#

106 0.0 76.7 116.7#



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

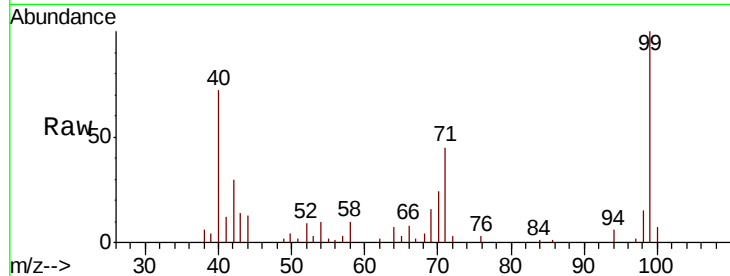




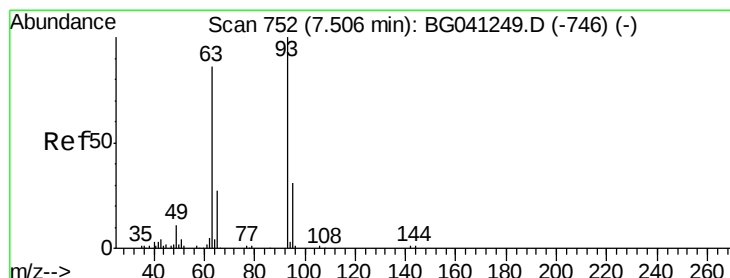
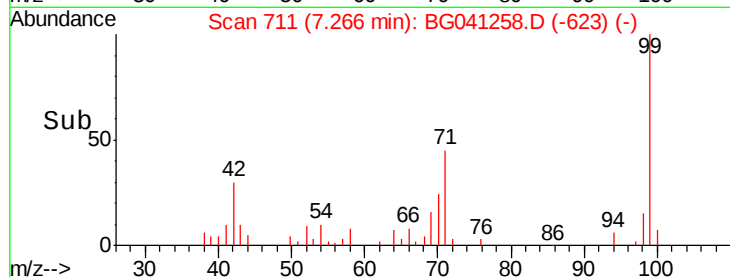
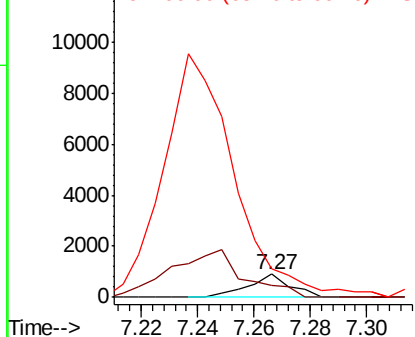
#10  
Phenol  
Concen: 0.280 ng  
RT: 7.27 min Scan# 711  
Delta R.T. -0.01 min  
Lab File: BG041258.D  
Acq: 14 Jun 2019 18:08

Instrument :  
BNA\_G  
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CONCRETE-5

Tgt Ion: 94 Resp: 942  
Ion Ratio Lower Upper  
94 100  
65 51.3 17.0 57.0  
66 125.5 32.4 72.4#

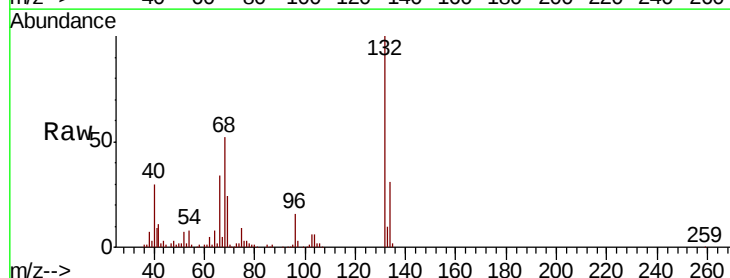


Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC

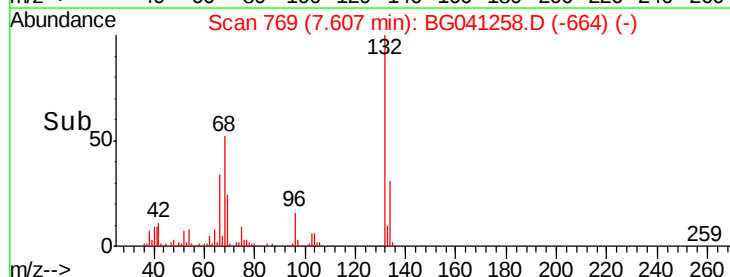
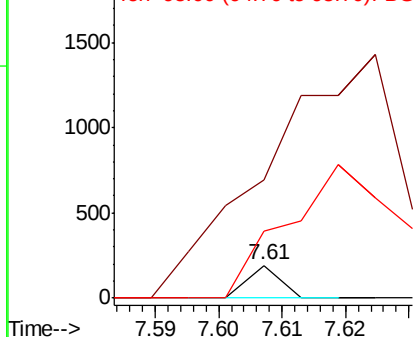


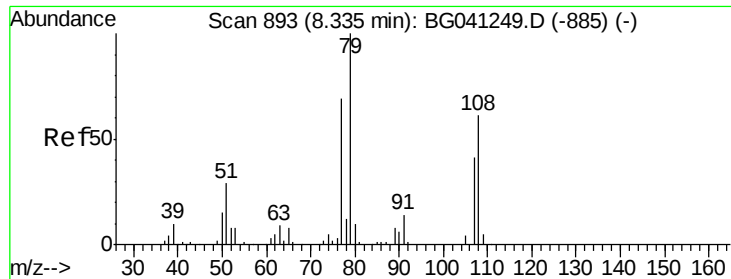
#11  
bis(2-Chloroethyl)ether  
Concen: 0.028 ng  
RT: 7.61 min Scan# 769  
Delta R.T. 0.09 min  
Lab File: BG041258.D  
Acq: 14 Jun 2019 18:08

Tgt Ion: 93 Resp: 68  
Ion Ratio Lower Upper  
93 100  
63 360.9 64.5 104.5#  
95 205.7 13.3 53.3#



Abundance Ion 93.00 (92.70 to 93.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 95.00 (94.70 to 95.70): BGC





#15

Benzyl Alcohol

Concen: 1.512 ng

RT: 8.42 min Scan# 907

Delta R.T. 0.08 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

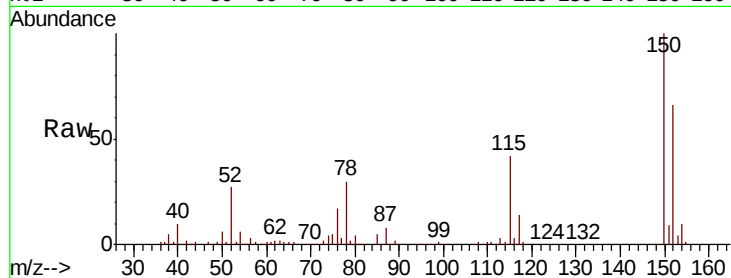
Tgt Ion: 79 Resp: 4365

Ion Ratio Lower Upper

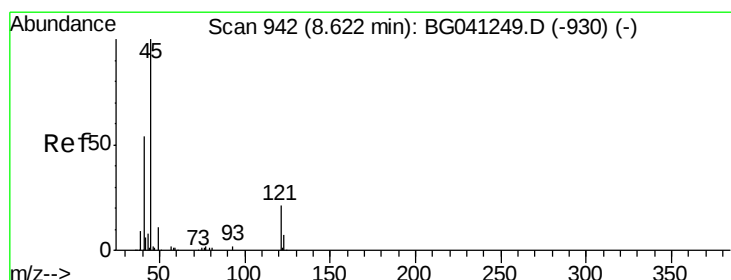
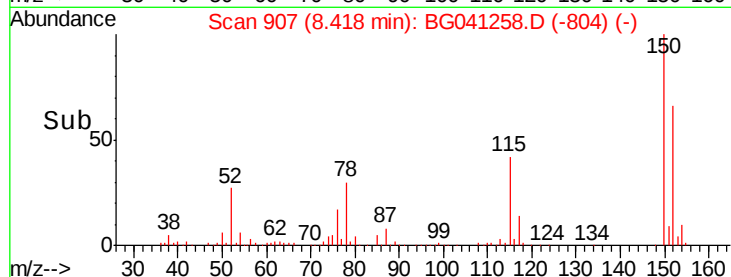
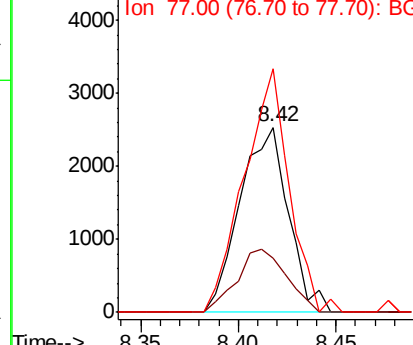
79 100

108 29.4 48.3 72.5#

77 131.8 52.3 78.5#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC



#16

2,2'-oxybis(1-Chloropropane)

Concen: 0.014 ng

RT: 8.50 min Scan# 921

Delta R.T. -0.13 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

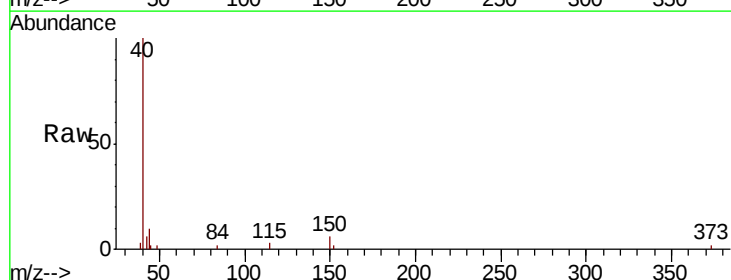
Tgt Ion: 45 Resp: 54

Ion Ratio Lower Upper

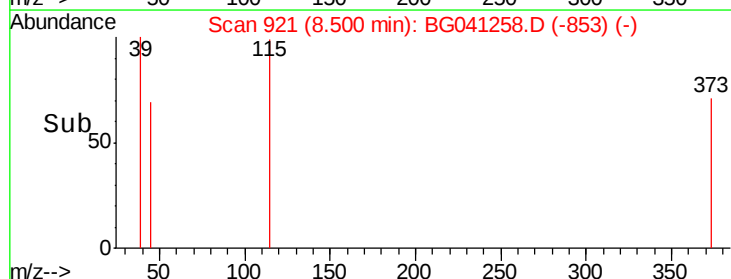
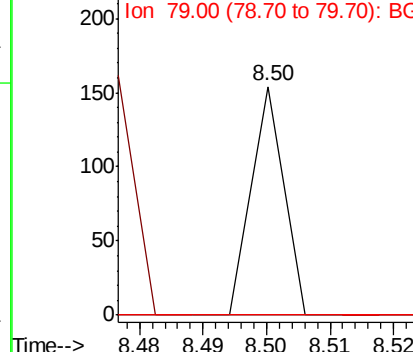
45 100

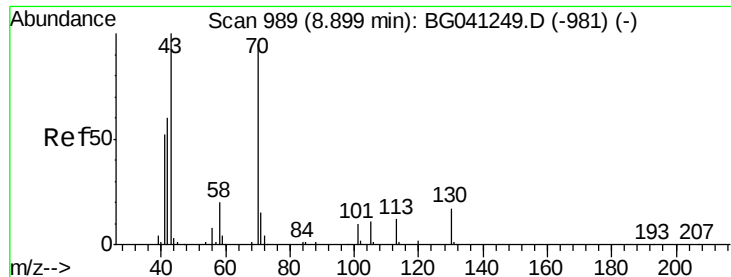
77 0.0 0.0 33.7

79 0.0 0.0 30.2



Abundance Ion 45.00 (44.70 to 45.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC  
Ion 79.00 (78.70 to 79.70): BGC





#19

n-Nitroso-di-n-propylamine

Concen: 16.719 ng

RT: 9.27 min Scan# 1052

Delta R.T. 0.36 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

Tgt Ion: 70 Resp: 40146

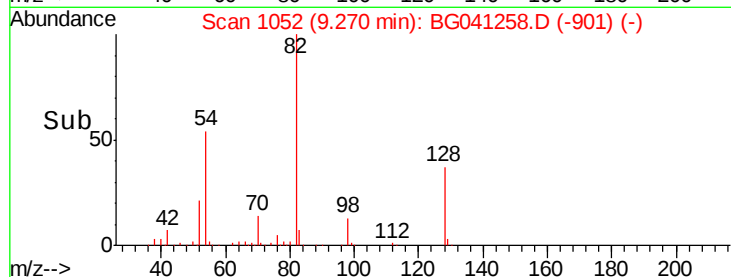
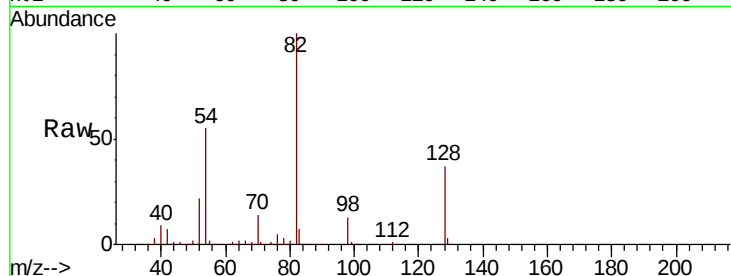
Ion Ratio Lower Upper

70 100

42 49.6 51.5 77.3#

101 0.0 8.1 12.1#

130 1.1 16.6 24.8#

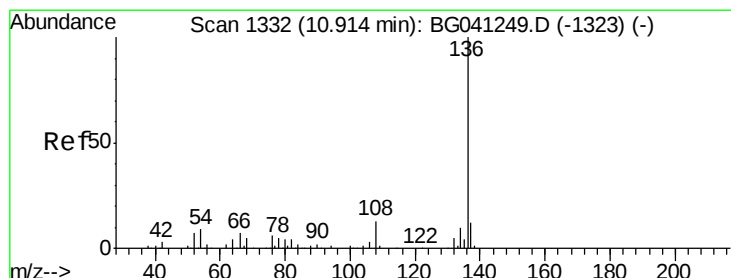
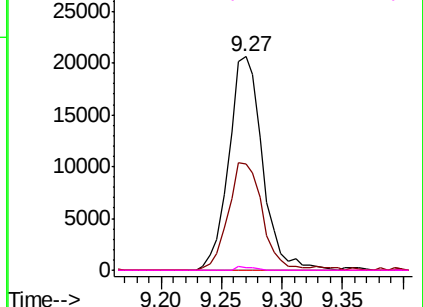


Abundance Ion 70.00 (69.70 to 70.70): BGC

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: 10.91 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Tgt Ion: 136 Resp: 159260

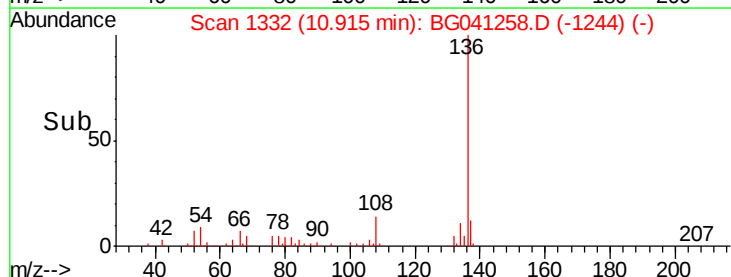
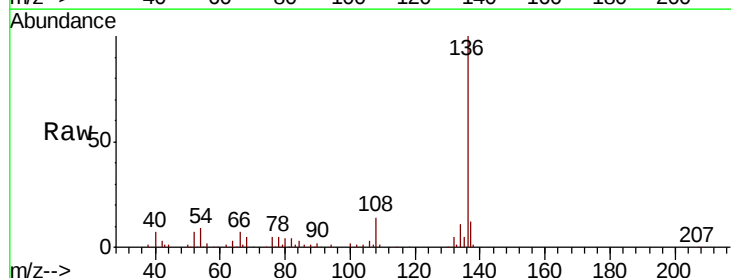
Ion Ratio Lower Upper

136 100

137 11.9 9.5 14.3

54 8.7 7.6 11.4

68 4.9 3.9 5.9

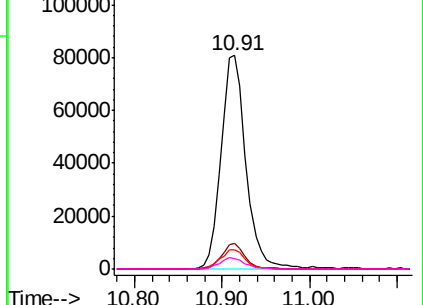


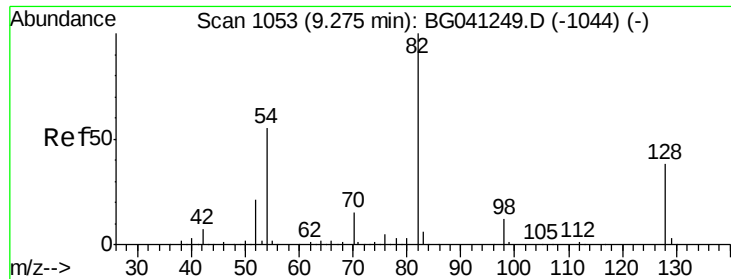
Abundance Ion 136.00 (135.70 to 136.70): BGC

Ion 137.00 (136.70 to 137.70): BGC

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC

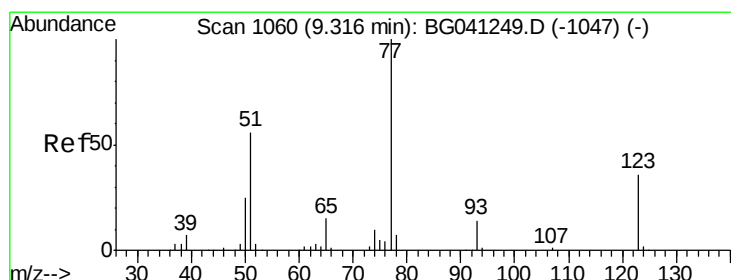
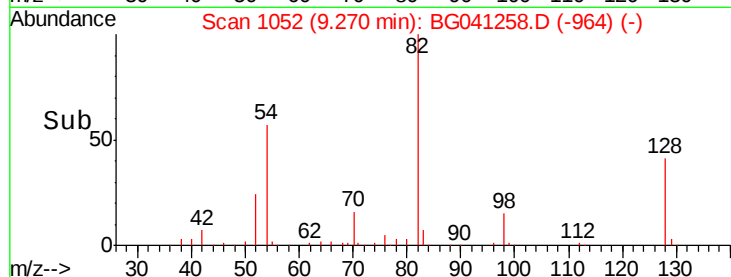
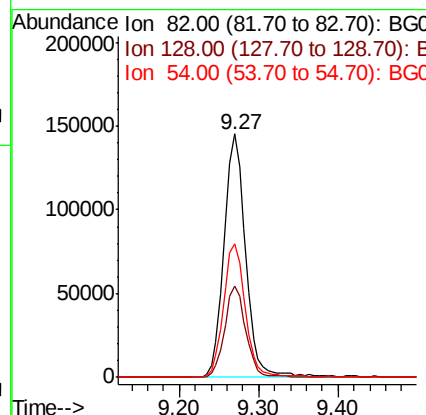
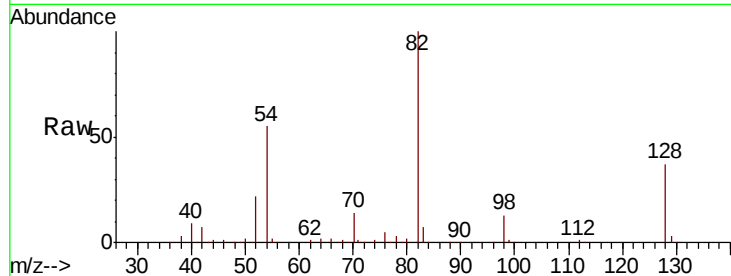




#23  
 Nitrobenzene-d5  
 Concen: 75.121 ng  
 RT: 9.27 min Scan# 1052  
 Delta R.T. -0.01 min  
 Lab File: BG041258.D  
 Acq: 14 Jun 2019 18:08

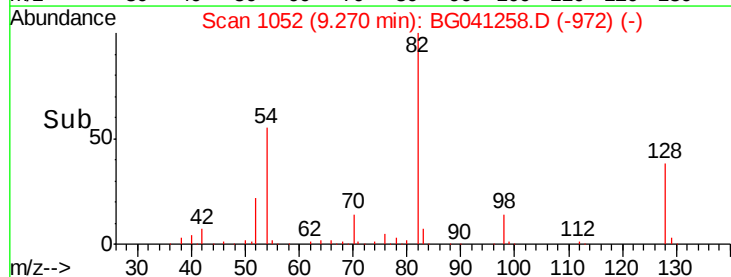
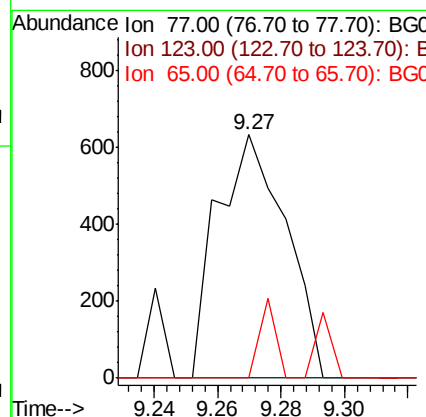
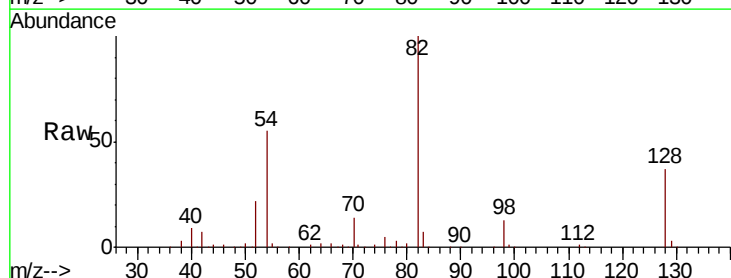
Instrument :  
 BNA\_G  
 ClientSampleId :  
 CONCRETE-5

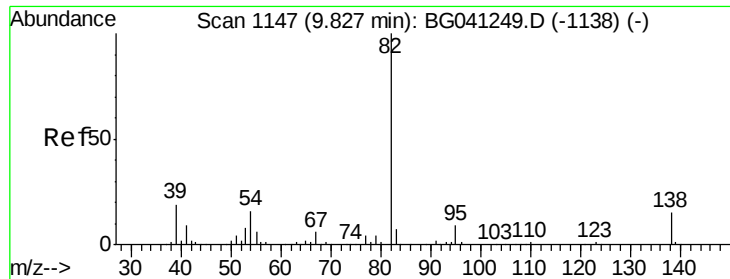
Tgt Ion: 82 Resp: 275668  
 Ion Ratio Lower Upper  
 82 100  
 128 37.5 30.5 45.7  
 54 54.7 44.6 66.8



#24  
 Nitrobenzene  
 Concen: 0.257 ng  
 RT: 9.27 min Scan# 1052  
 Delta R.T. -0.06 min  
 Lab File: BG041258.D  
 Acq: 14 Jun 2019 18:08

Tgt Ion: 77 Resp: 947  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 30.6 46.0#  
 65 0.0 12.3 18.5#





#25

Isophorone

Concen: 1.528 ng

RT: 9.83 min Scan# 1147

Delta R.T. -0.01 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

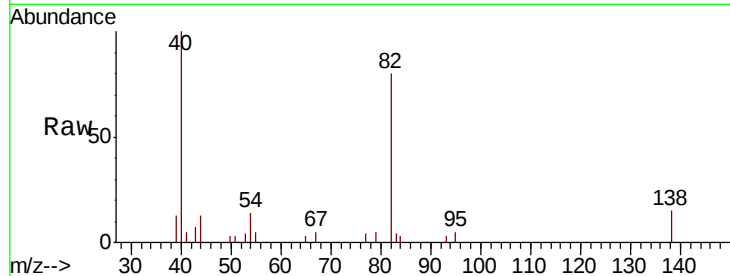
Tgt Ion: 82 Resp: 9884

Ion Ratio Lower Upper

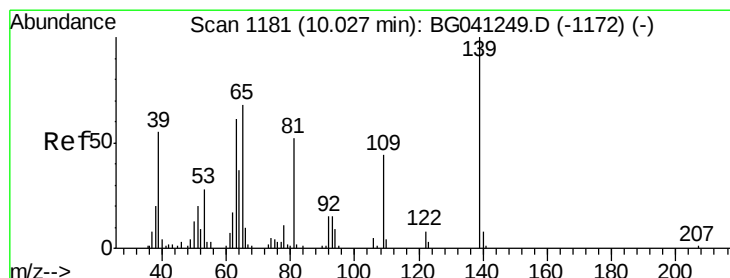
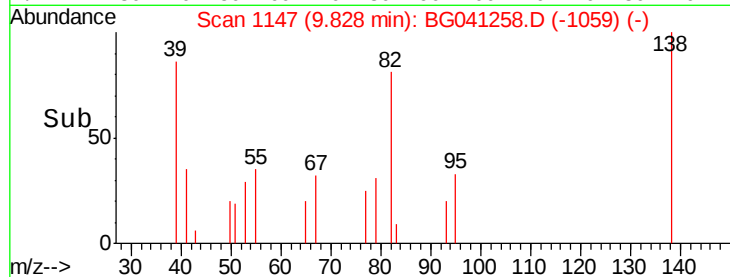
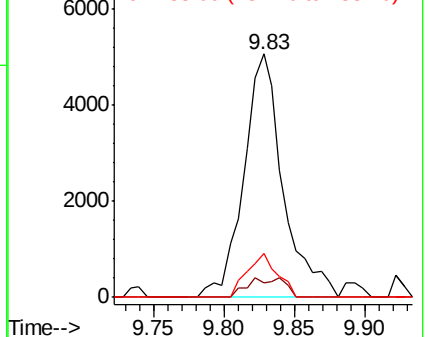
82 100

95 6.1 7.0 10.4#

138 18.2 12.6 19.0



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



#26

2-Nitrophenol

Concen: 0.038 ng

RT: 9.83 min Scan# 1148

Delta R.T. -0.20 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

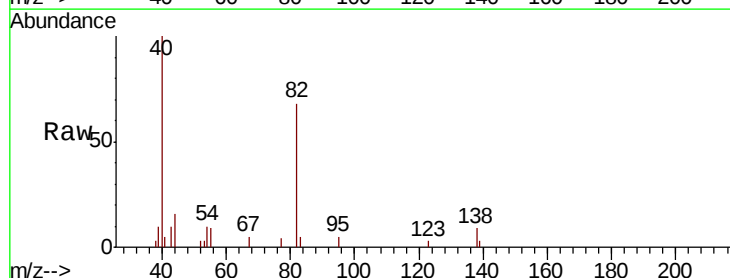
Tgt Ion: 139 Resp: 59

Ion Ratio Lower Upper

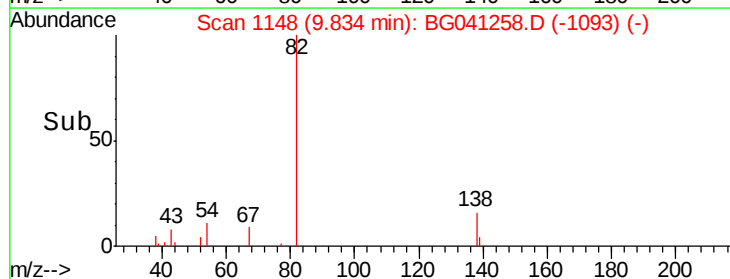
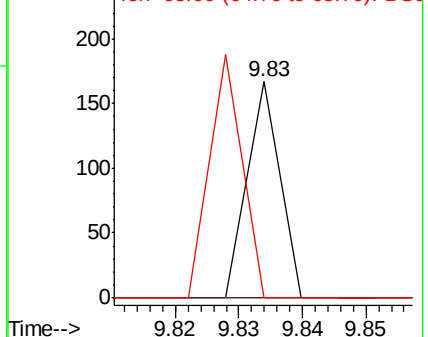
139 100

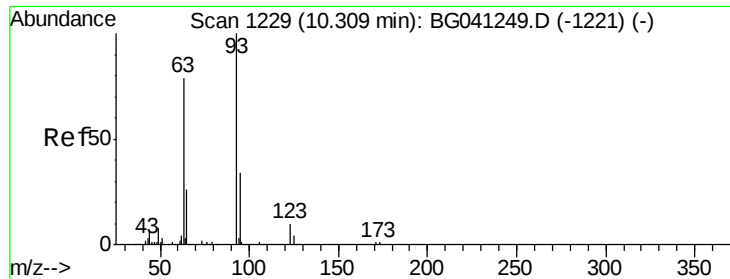
109 0.0 29.8 44.6#

65 0.0 47.8 71.6#



Abundance Ion 139.00 (138.70 to 139.70): BGC  
Ion 109.00 (108.70 to 109.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC

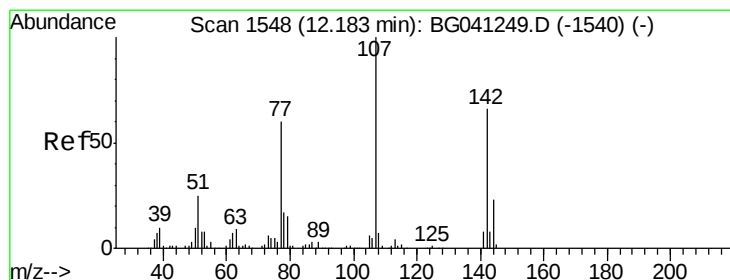
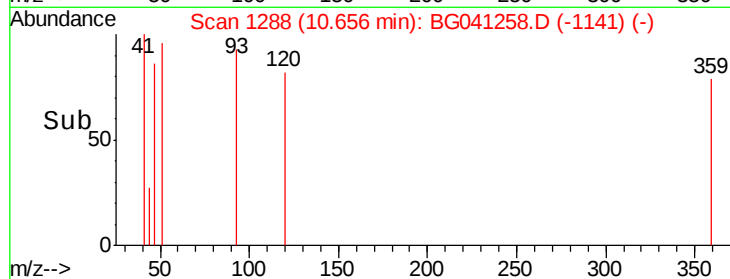
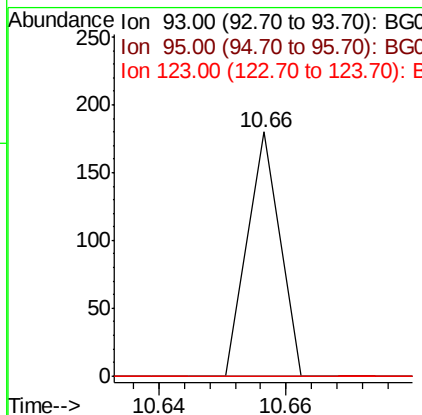
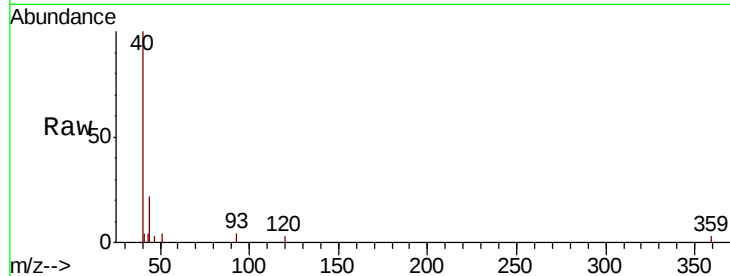




#28  
bis(2-Chloroethoxy)methane  
Concen: 0.018 ng  
RT: 10.66 min Scan# 1288  
Delta R.T. 0.34 min  
Lab File: BG041258.D  
Acq: 14 Jun 2019 18:08

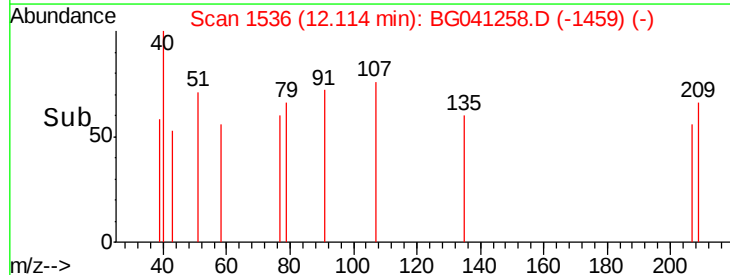
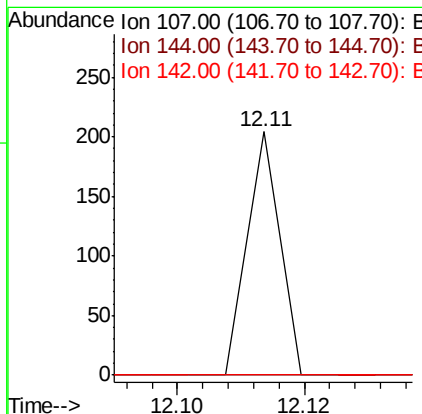
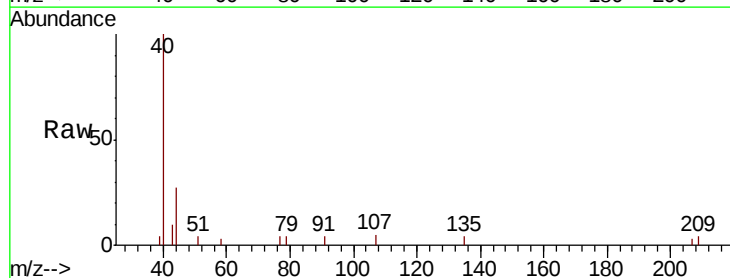
Instrument :  
BNA\_G  
ClientSampleId :  
CONCRETE-5

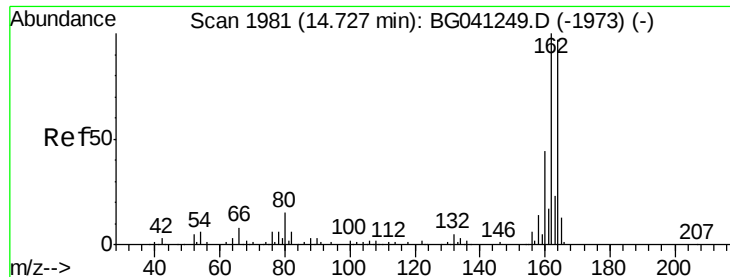
Tgt Ion: 93 Resp: 63  
Ion Ratio Lower Upper  
93 100  
95 0.0 26.2 39.2#  
123 0.0 9.5 14.3#



#36  
4-Chloro-3-methylphenol  
Concen: 0.022 ng  
RT: 12.11 min Scan# 1536  
Delta R.T. -0.07 min  
Lab File: BG041258.D  
Acq: 14 Jun 2019 18:08

Tgt Ion: 107 Resp: 72  
Ion Ratio Lower Upper  
107 100  
144 0.0 19.4 29.0#  
142 0.0 57.3 85.9#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.72 min Scan# 1980

Delta R.T. -0.02 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

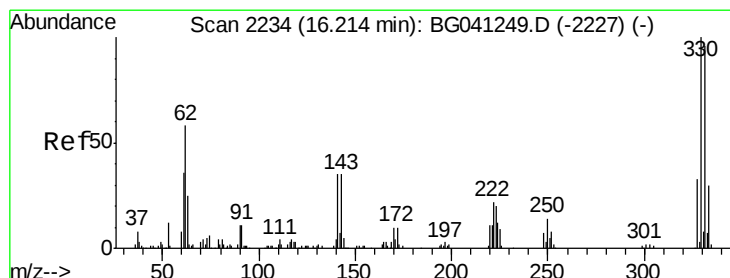
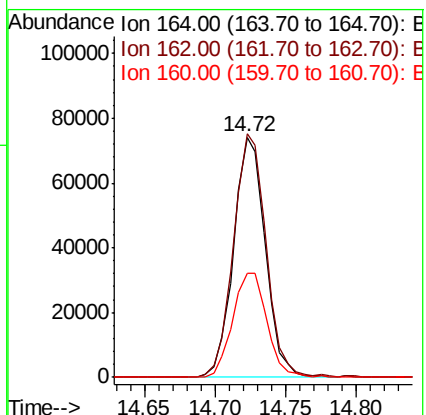
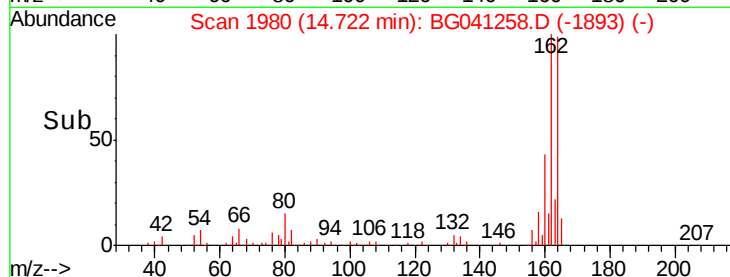
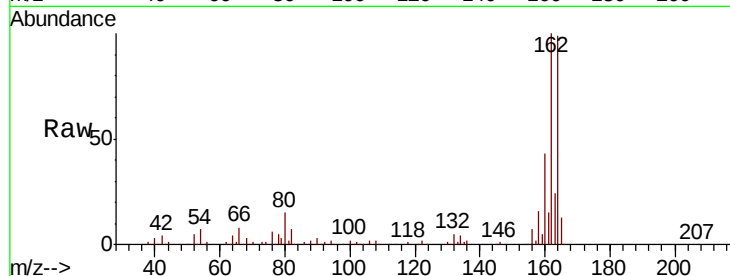
Tgt Ion:164 Resp: 116357

Ion Ratio Lower Upper

164 100

162 101.4 83.0 124.4

160 43.5 35.6 53.4



#42

2,4,6-Tribromophenol

Concen: 15.067 ng

RT: 16.21 min Scan# 2234

Delta R.T. -0.01 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

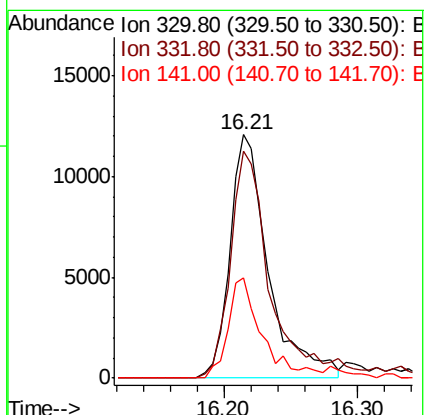
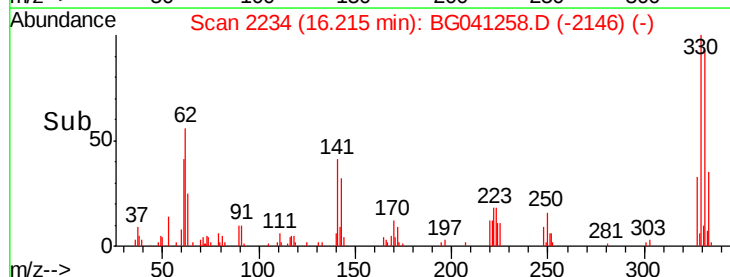
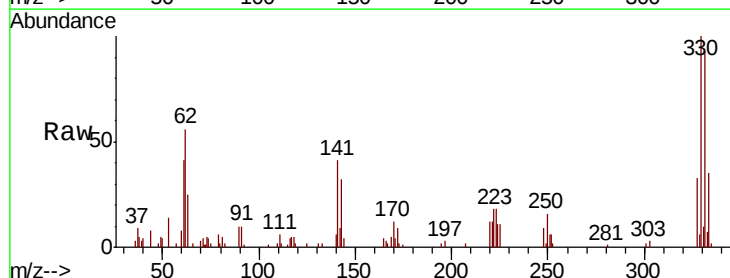
Tgt Ion:330 Resp: 24252

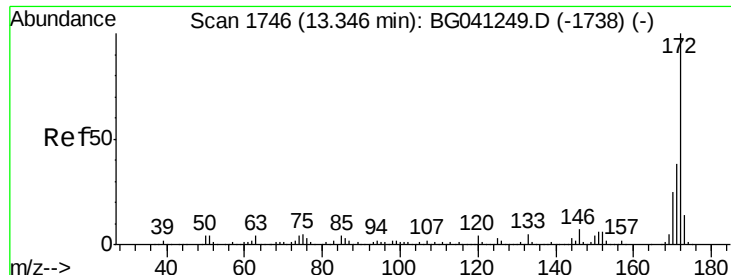
Ion Ratio Lower Upper

330 100

332 98.4 78.5 117.7

141 34.4 28.7 43.1

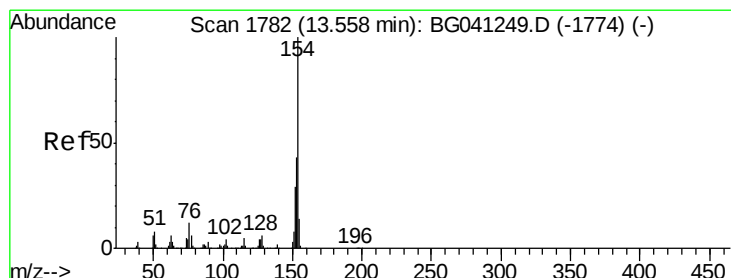
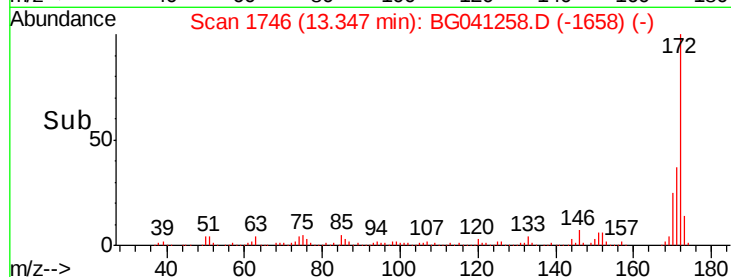
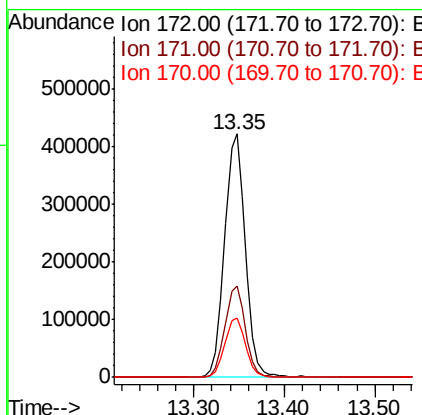
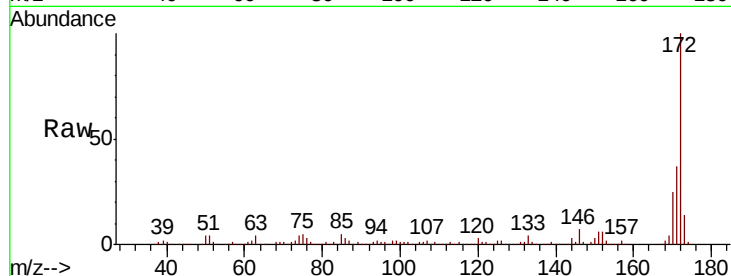




#45  
2-Fluorobiphenyl  
Concen: 76.148 ng  
RT: 13.35 min Scan# 1746  
Delta R.T. -0.01 min  
Lab File: BG041258.D  
Acq: 14 Jun 2019 18:08

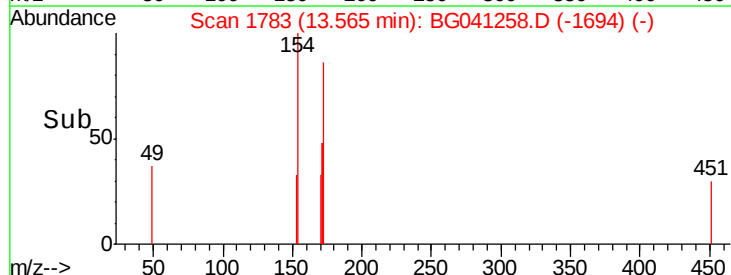
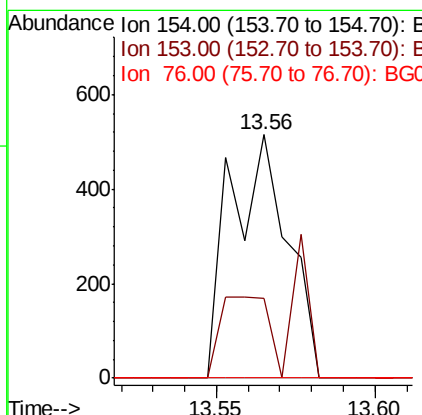
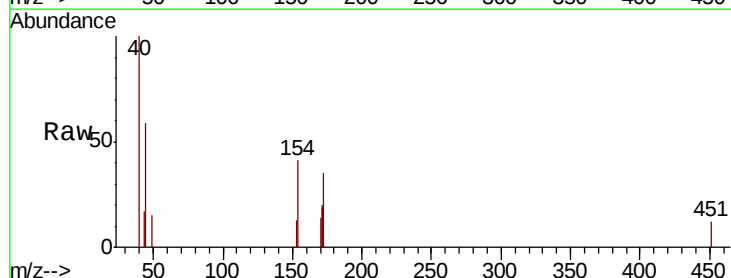
Instrument :  
BNA\_G  
ClientSampleId :  
CONCRETE-5

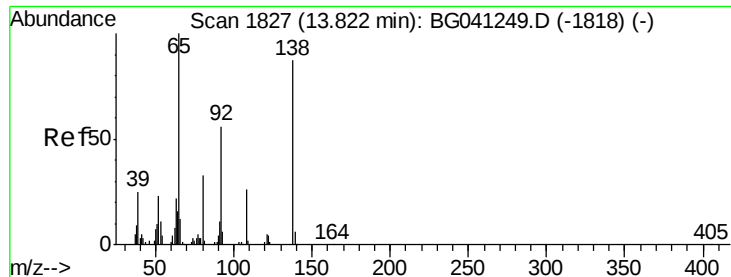
Tgt Ion:172 Resp: 669391  
Ion Ratio Lower Upper  
172 100  
171 37.4 31.1 46.7  
170 24.6 20.5 30.7



#46  
1,1'-Biphenyl  
Concen: 0.072 ng  
RT: 13.56 min Scan# 1783  
Delta R.T. -0.00 min  
Lab File: BG041258.D  
Acq: 14 Jun 2019 18:08

Tgt Ion:154 Resp: 645  
Ion Ratio Lower Upper  
154 100  
153 32.8 23.3 63.3  
76 0.0 0.0 31.1





#48

2-Nitroaniline

Concen: 0.571 ng

RT: 14.17 min Scan# 1886

Delta R.T. 0.34 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

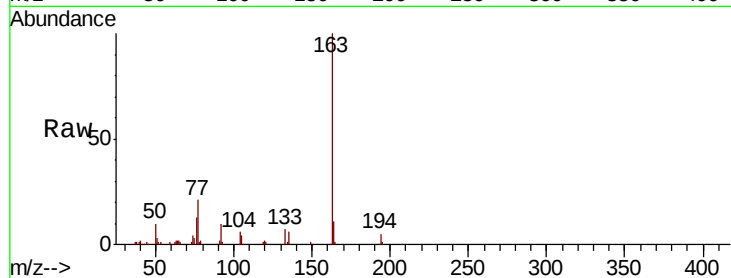
Tgt Ion: 65 Resp: 1550

Ion Ratio Lower Upper

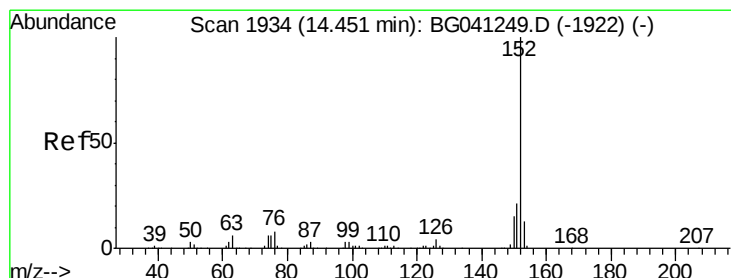
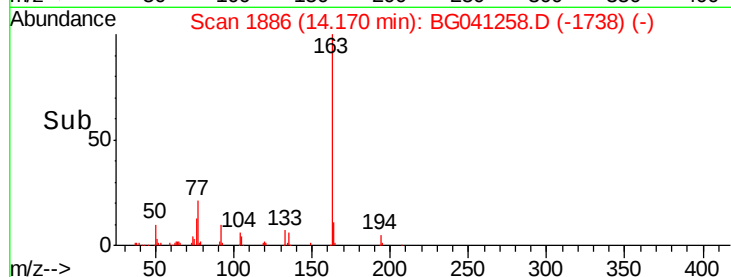
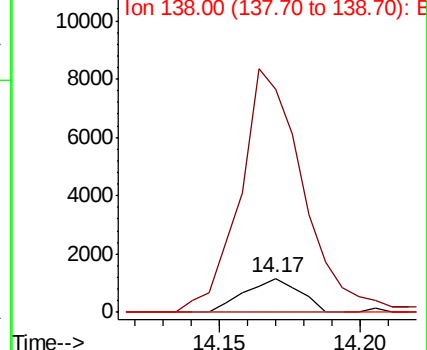
65 100

92 653.7 51.0 76.6#

138 0.0 71.2 106.8#



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



#49

Acenaphthylene

Concen: 0.005 ng

RT: 14.84 min Scan# 2000

Delta R.T. 0.38 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

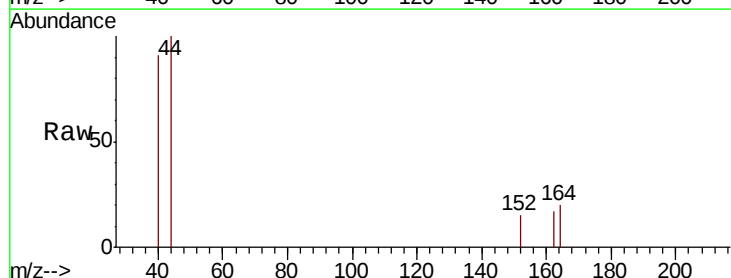
Tgt Ion: 152 Resp: 55

Ion Ratio Lower Upper

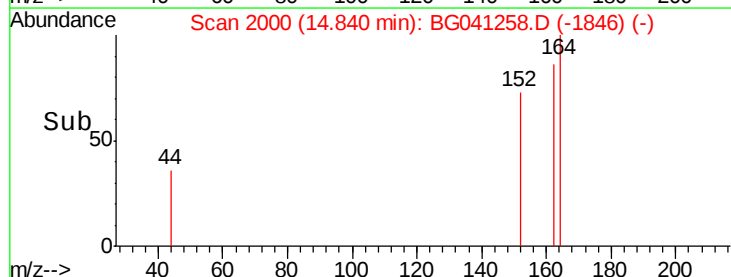
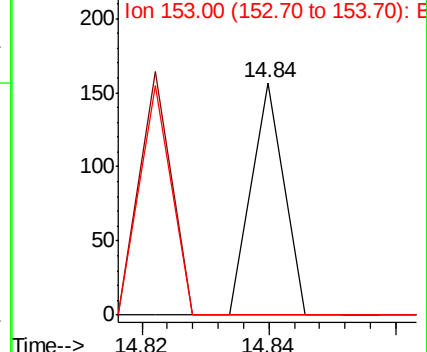
152 100

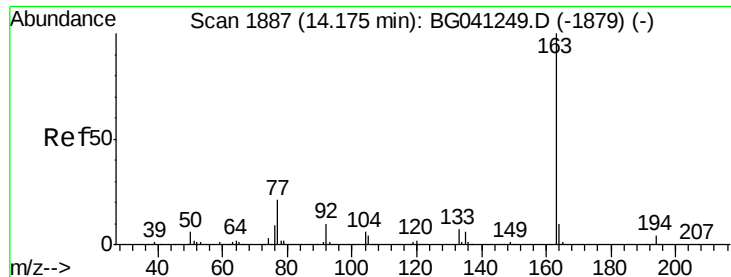
151 0.0 17.4 26.0#

153 0.0 11.0 16.4#



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





#50

Dimethylphthalate

Concen: 12.352 ng

RT: 14.17 min Scan# 1886

Delta R.T. -0.02 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

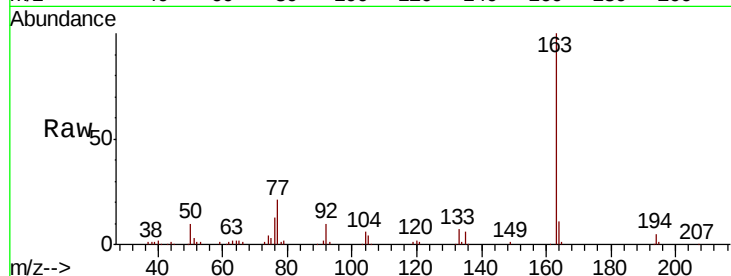
Tgt Ion:163 Resp: 121140

Ion Ratio Lower Upper

163 100

194 5.4 3.8 5.8

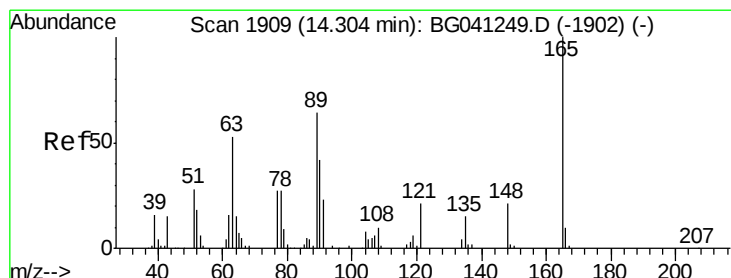
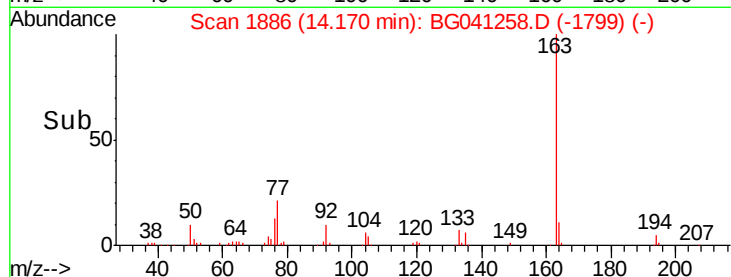
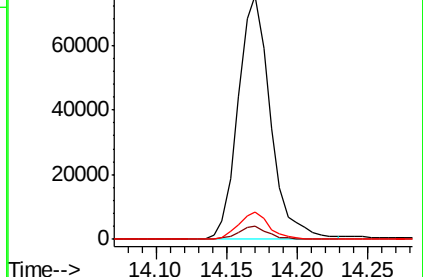
164 11.1 8.7 13.1



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

2,6-Dinitrotoluene

Concen: 0.640 ng

RT: 14.17 min Scan# 1886

Delta R.T. -0.15 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

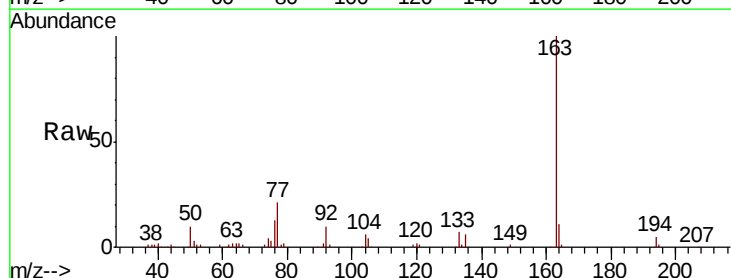
Tgt Ion:165 Resp: 1346

Ion Ratio Lower Upper

165 100

63 140.0 53.6 80.4#

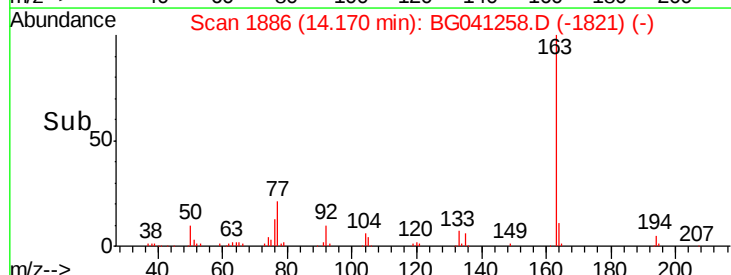
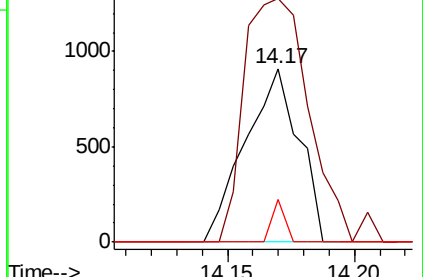
89 24.9 50.4 75.6#

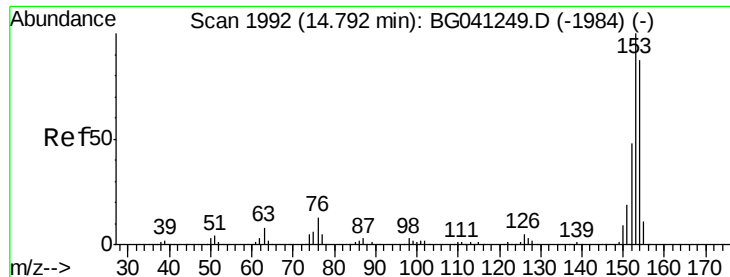


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC





#52

Acenaphthene

Concen: 0.064 ng

RT: 14.73 min Scan# 1981

Delta R.T. -0.07 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

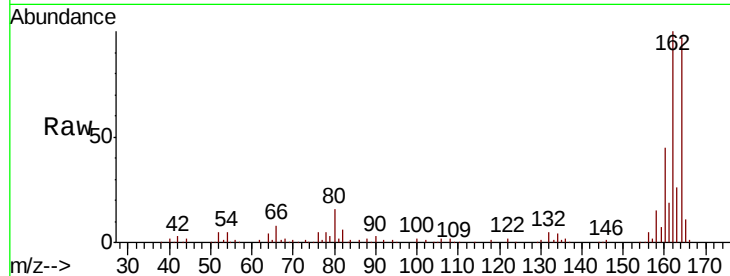
Tgt Ion:154 Resp: 431

Ion Ratio Lower Upper

154 100

153 0.0 88.6 133.0#

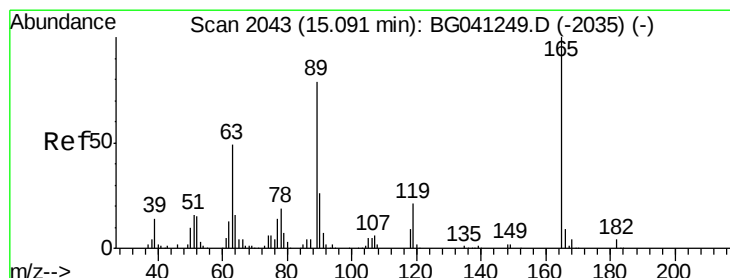
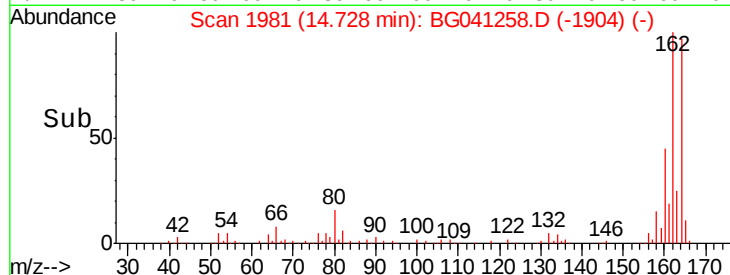
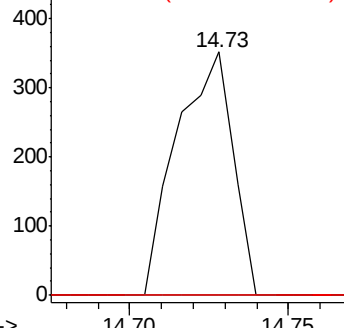
152 0.0 44.2 66.4#



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: 4.823 ng

RT: 14.72 min Scan# 1980

Delta R.T. -0.37 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Tgt Ion:165 Resp: 14080

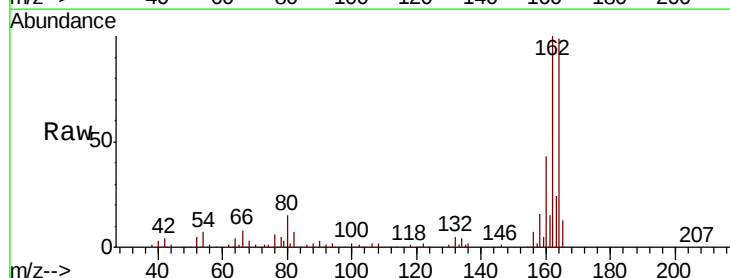
Ion Ratio Lower Upper

165 100

63 3.5 37.3 55.9#

89 0.0 61.0 91.6#

182 0.0 2.2 3.2#

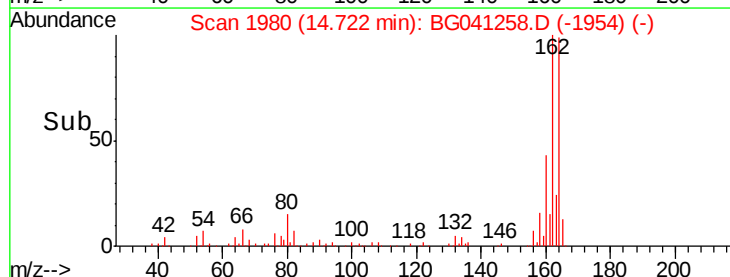
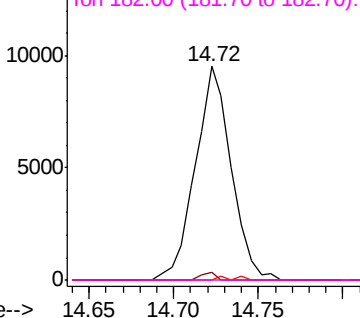


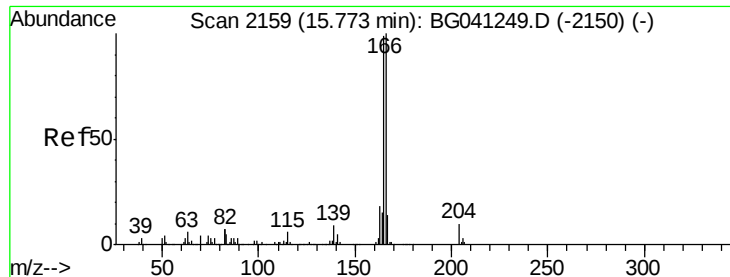
Abundance Ion 165.00 (164.70 to 165.70): E

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





#58

Fluorene

Concen: 0.063 ng

RT: 16.21 min Scan# 2233

Delta R.T. 0.43 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

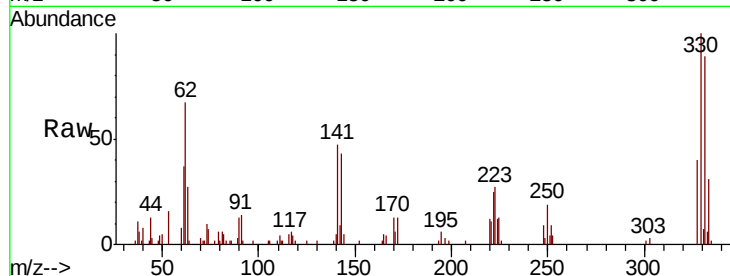
Tgt Ion: 166 Resp: 557

Ion Ratio Lower Upper

166 100

165 146.9 79.2 118.8#

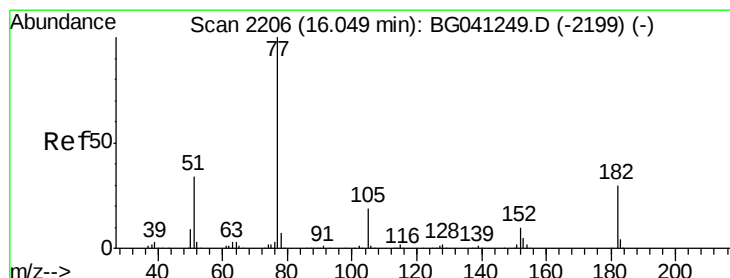
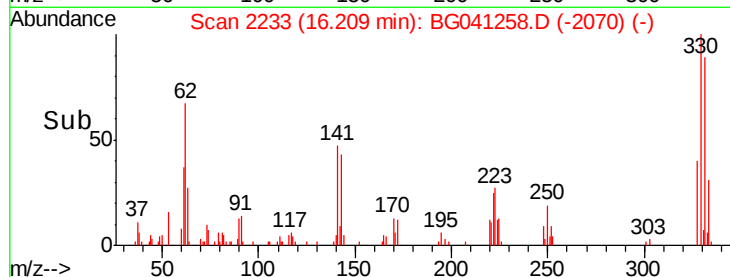
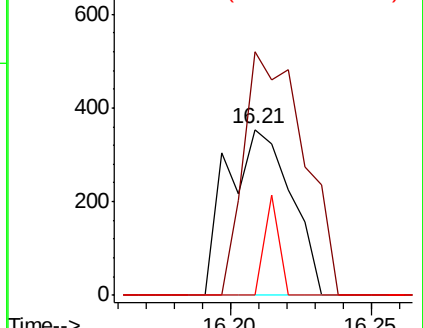
167 0.0 11.8 17.6#



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: 0.006 ng

RT: 16.08 min Scan# 2211

Delta R.T. 0.02 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Tgt Ion: 77 Resp: 54

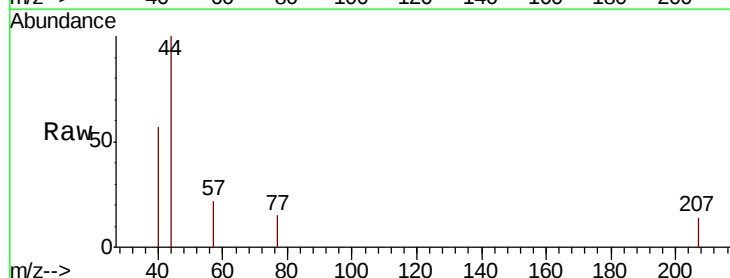
Ion Ratio Lower Upper

77 100

182 0.0 9.6 49.6#

105 0.0 0.0 37.5

51 0.0 13.7 53.7#

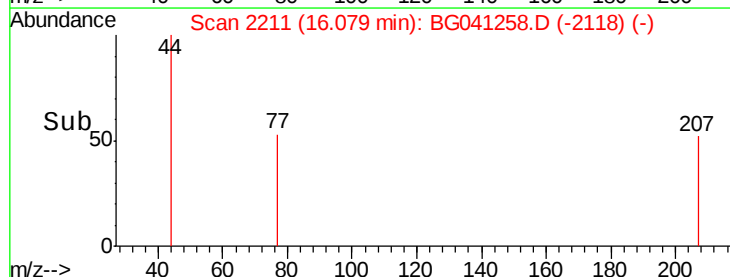
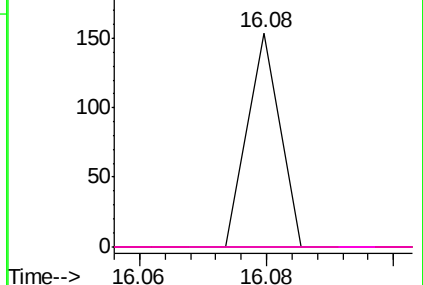


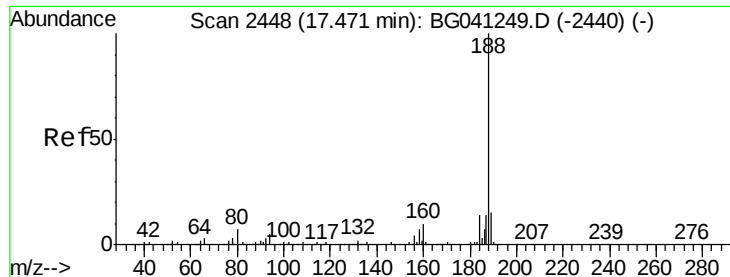
Abundance Ion 77.00 (76.70 to 77.70): BGC

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: 17.47 min Scan# 2447

Delta R.T. -0.02 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

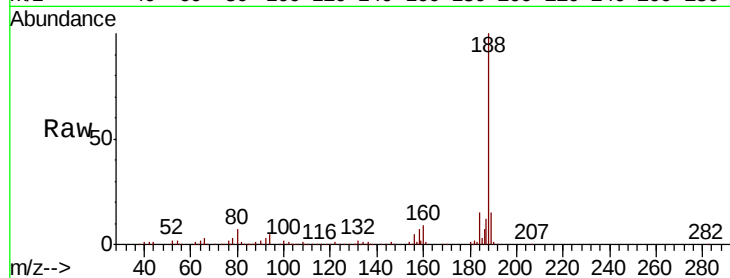
Tgt Ion:188 Resp: 272422

Ion Ratio Lower Upper

188 100

94 5.5 4.7 7.1

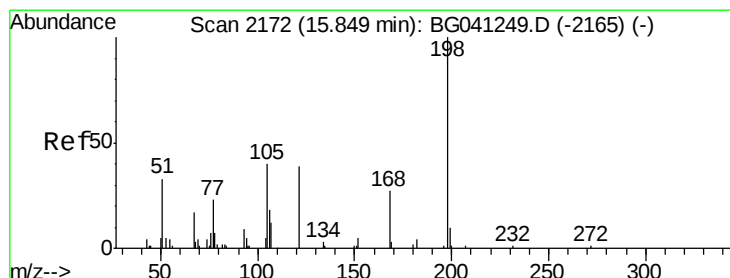
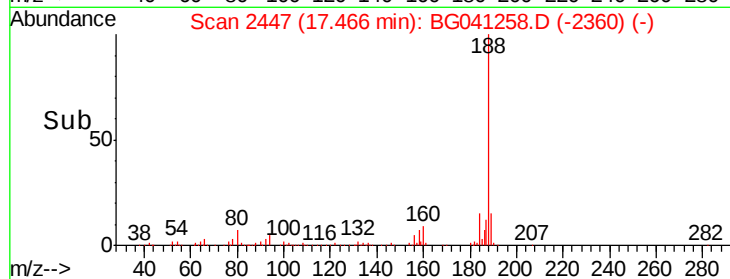
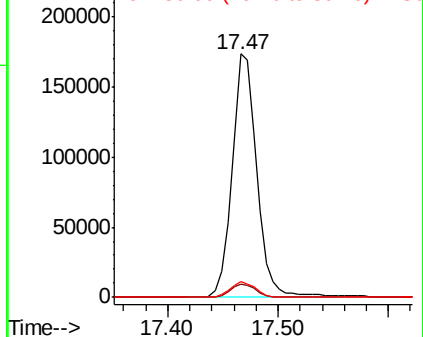
80 6.5 5.8 8.8



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: 8.641 ng

RT: 16.23 min Scan# 2236

Delta R.T. 0.37 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

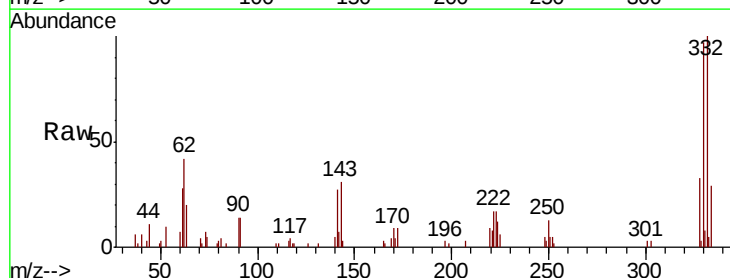
Tgt Ion:198 Resp: 69

Ion Ratio Lower Upper

198 100

51 0.0 21.6 61.6#

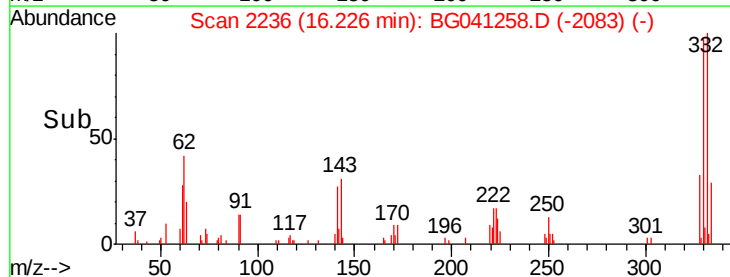
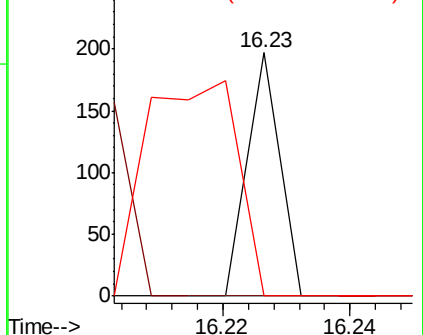
105 0.0 17.5 57.5#

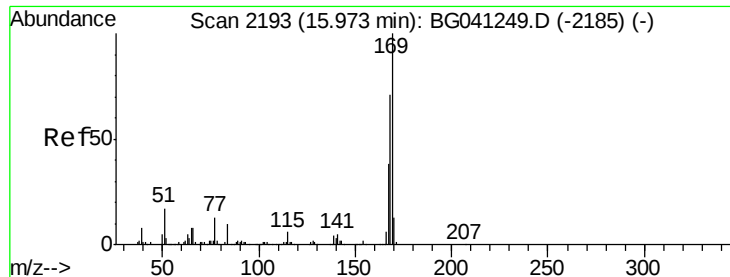


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

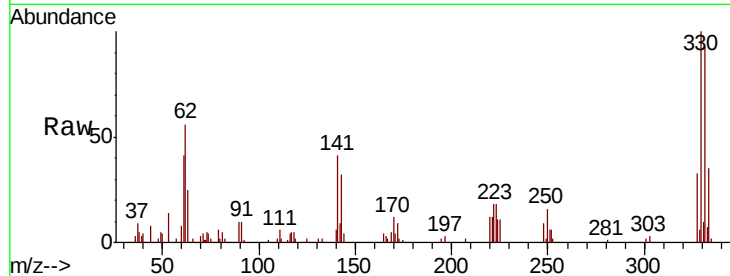




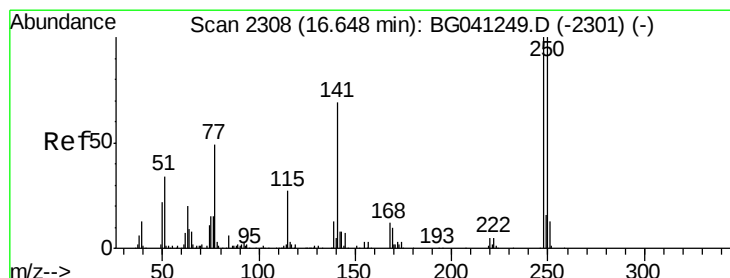
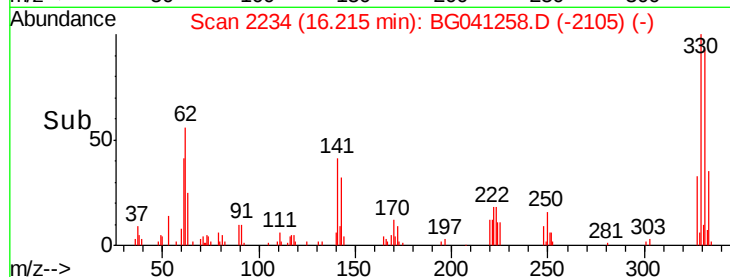
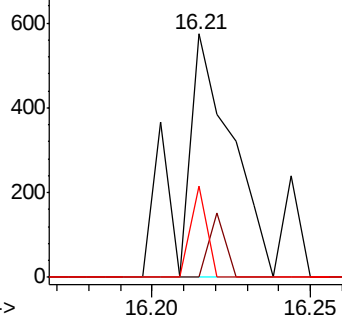
#66  
n-Nitrosodiphenylamine  
Concen: 0.084 ng  
RT: 16.21 min Scan# 2234  
Delta R.T. 0.23 min  
Lab File: BG041258.D  
Acq: 14 Jun 2019 18:08

Instrument :  
BNA\_G  
ClientSampleId :  
CONCRETE-5

Tgt Ion:169 Resp: 639  
Ion Ratio Lower Upper  
169 100  
168 0.0 55.7 83.5#  
167 37.5 30.2 45.2

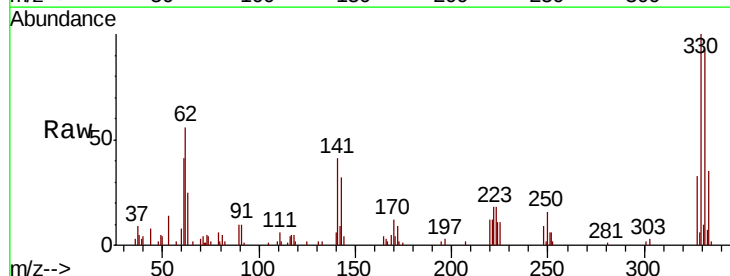


Abundance Ion 169.00 (168.70 to 169.70): E  
Ion 168.00 (167.70 to 168.70): E  
Ion 167.00 (166.70 to 167.70): E

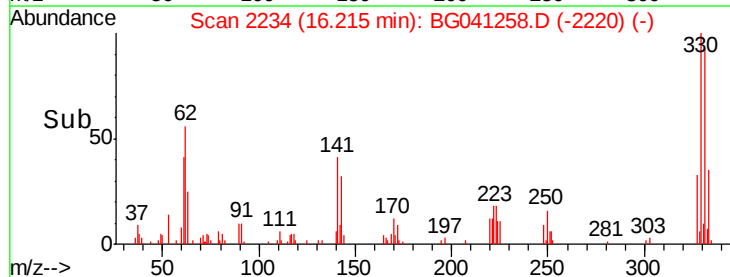
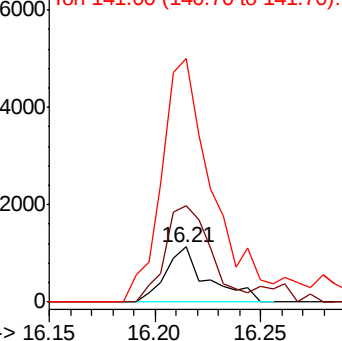


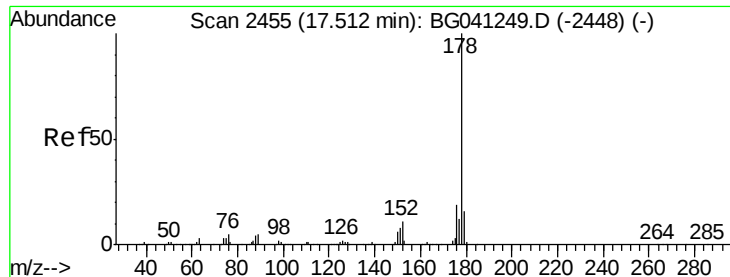
#67  
4-Bromophenyl-phenylether  
Concen: 0.426 ng  
RT: 16.21 min Scan# 2234  
Delta R.T. -0.45 min  
Lab File: BG041258.D  
Acq: 14 Jun 2019 18:08

Tgt Ion:248 Resp: 1539  
Ion Ratio Lower Upper  
248 100  
250 175.0 75.0 112.4#  
141 439.5 52.4 78.6#



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: 0.023 ng

RT: 17.51 min Scan# 2454

Delta R.T. -0.02 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

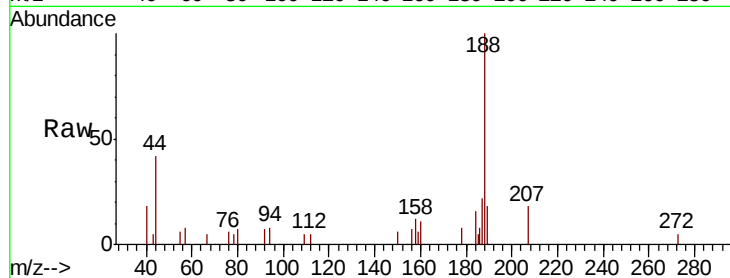
Tgt Ion:178 Resp: 334

Ion Ratio Lower Upper

178 100

176 0.0 15.5 23.3#

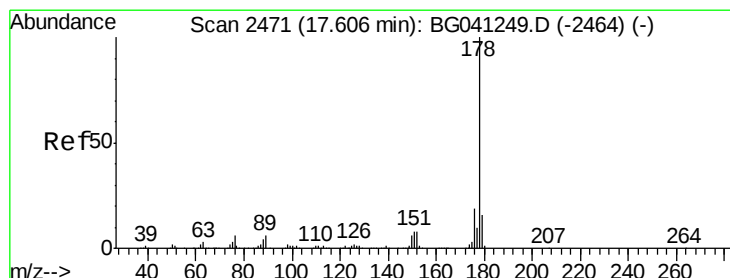
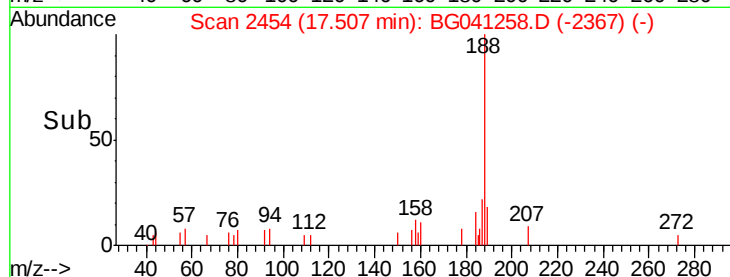
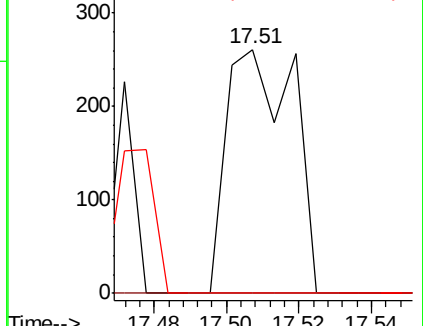
179 0.0 12.7 19.1#



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



#72

Anthracene

Concen: 0.023 ng

RT: 17.51 min Scan# 2454

Delta R.T. -0.10 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

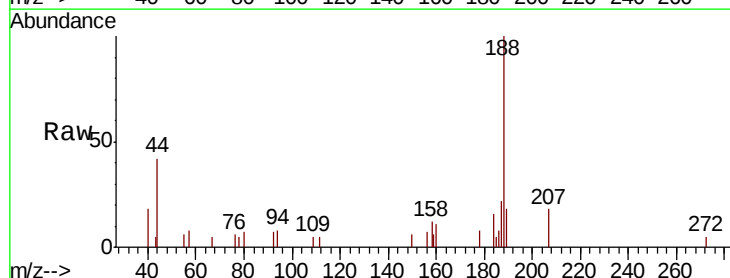
Tgt Ion:178 Resp: 334

Ion Ratio Lower Upper

178 100

176 0.0 15.6 23.4#

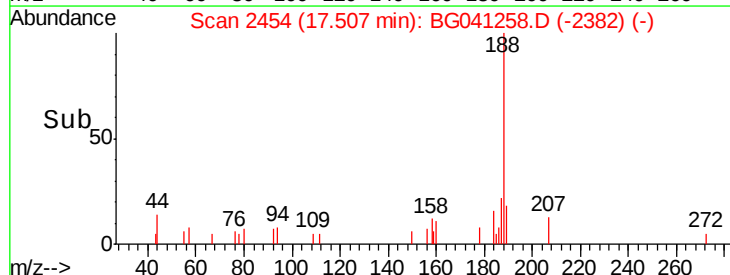
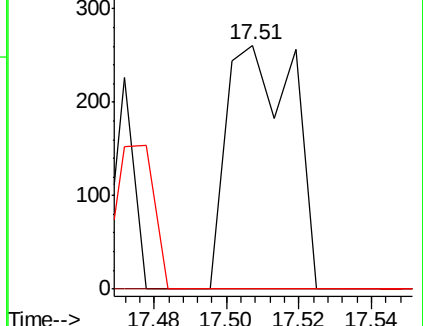
179 0.0 13.0 19.4#

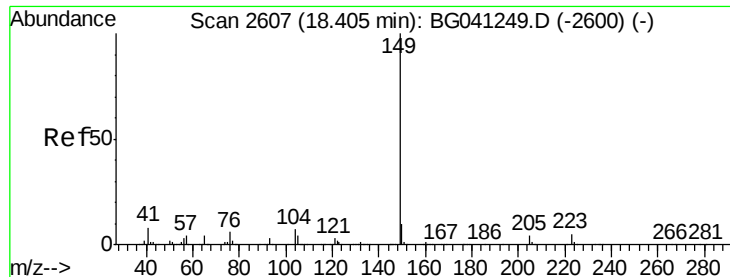


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Di-n-butylphthalate

Concen: 0.046 ng

RT: 18.41 min Scan# 2607

Delta R.T. -0.01 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

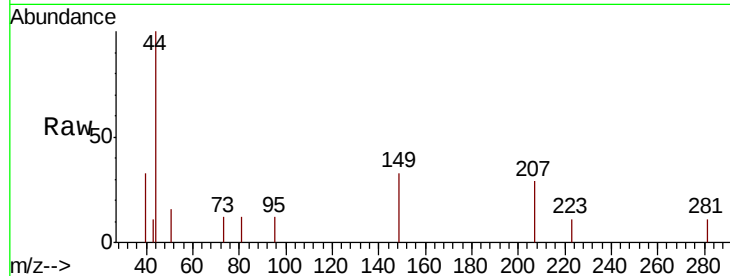
Tgt Ion:149 Resp: 690

Ion Ratio Lower Upper

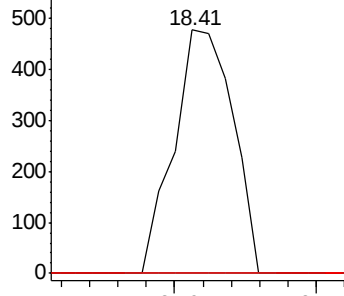
149 100

150 0.0 7.4 11.2#

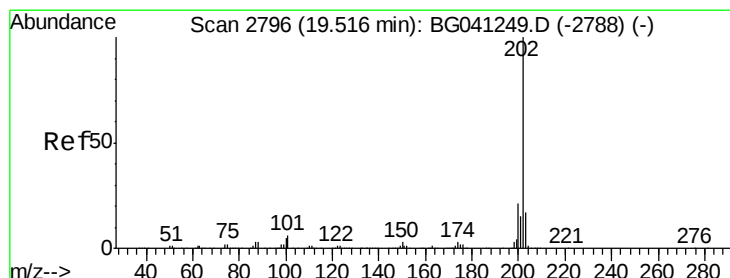
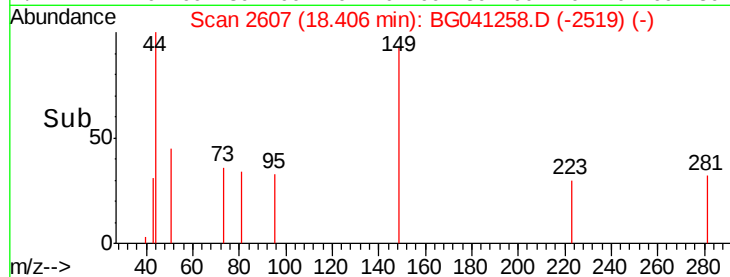
104 0.0 5.0 7.4#



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 104.00 (103.70 to 104.70): E



Time-->



#75

Fluoranthene

Concen: 0.020 ng

RT: 19.53 min Scan# 2798

Delta R.T. 0.00 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

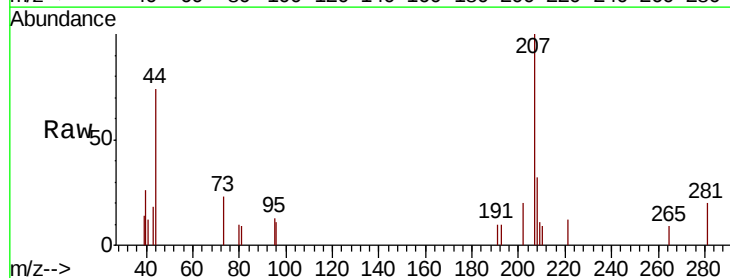
Tgt Ion:202 Resp: 369

Ion Ratio Lower Upper

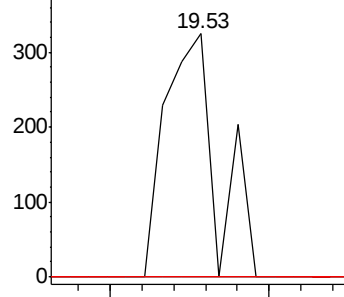
202 100

101 0.0 0.0 26.2

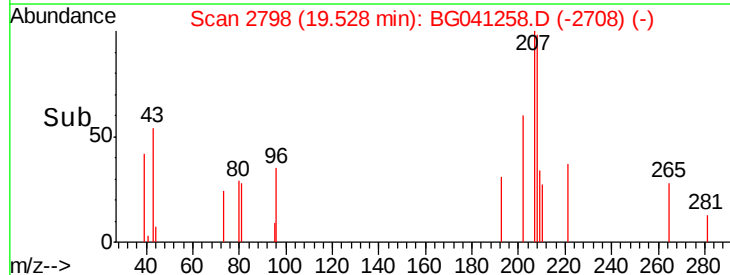
203 0.0 0.0 38.7

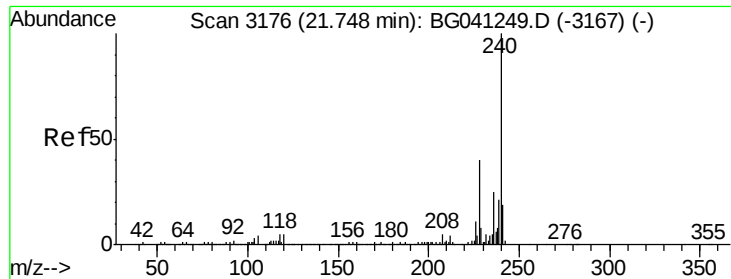


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



Time-->

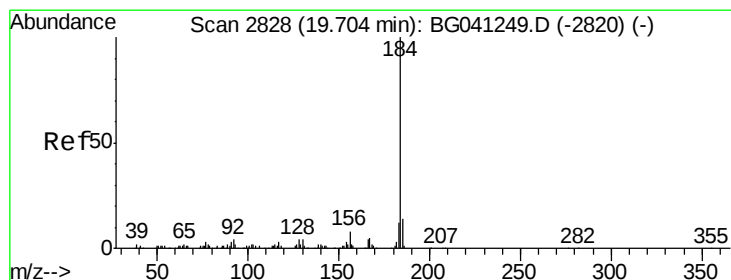
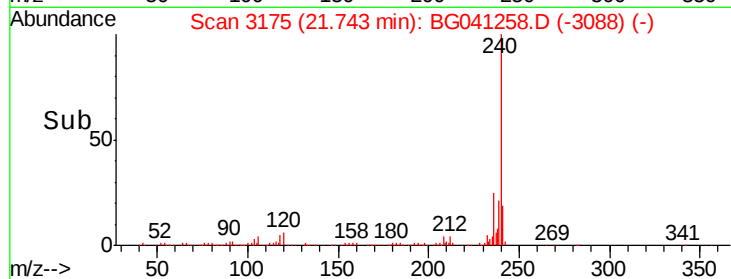
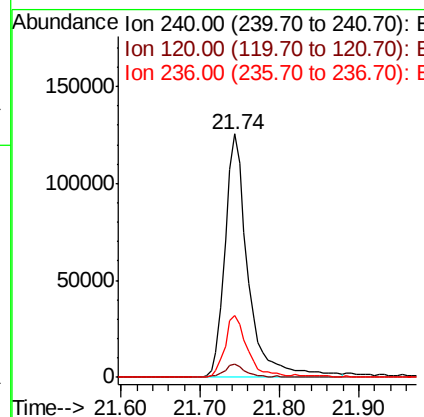
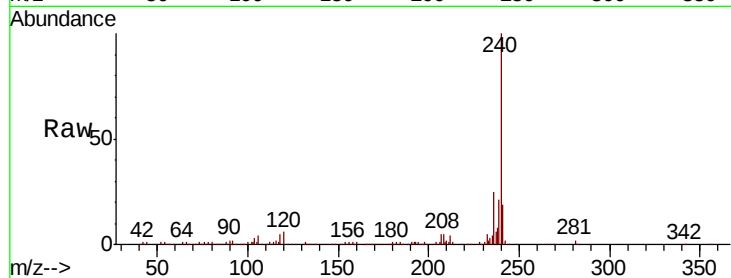




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.74 min Scan# 3175  
Delta R.T. -0.02 min  
Lab File: BG041258.D  
Acq: 14 Jun 2019 18:08

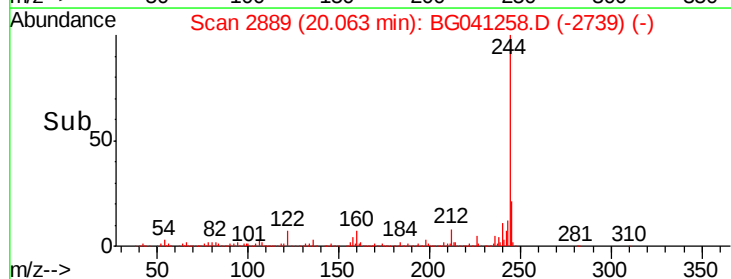
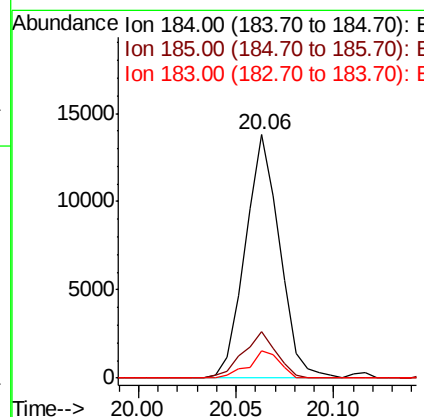
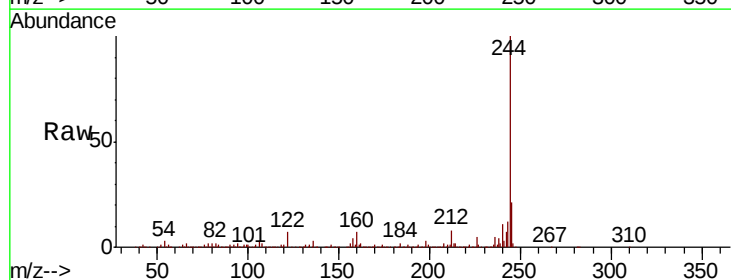
Instrument :  
BNA\_G  
ClientSampleId :  
CONCRETE-5

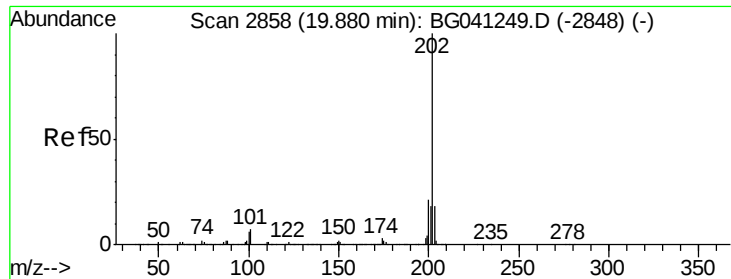
Tgt Ion:240 Resp: 253469  
Ion Ratio Lower Upper  
240 100  
120 5.5 4.5 6.7  
236 25.3 21.3 31.9



#77  
Benzidine  
Concen: 4.272 ng  
RT: 20.06 min Scan# 2889  
Delta R.T. 0.35 min  
Lab File: BG041258.D  
Acq: 14 Jun 2019 18:08

Tgt Ion:184 Resp: 16812  
Ion Ratio Lower Upper  
184 100  
185 19.1 13.3 19.9  
183 11.1 10.7 16.1





#78

Pyrene

Concen: 0.014 ng

RT: 19.89 min Scan# 2859

Delta R.T. -0.00 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

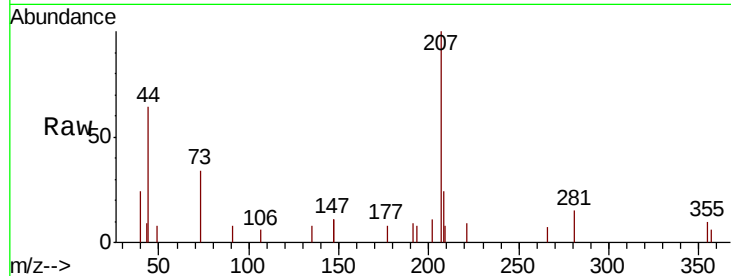
Tgt Ion:202 Resp: 242

Ion Ratio Lower Upper

202 100

200 0.0 17.5 26.3#

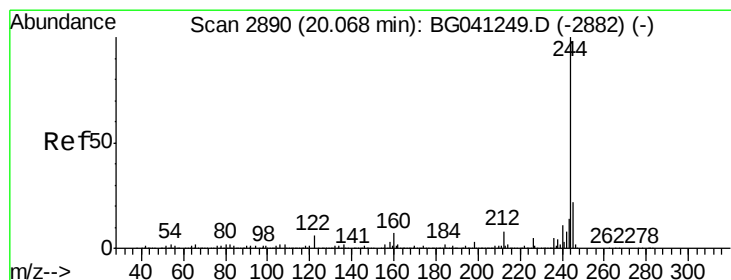
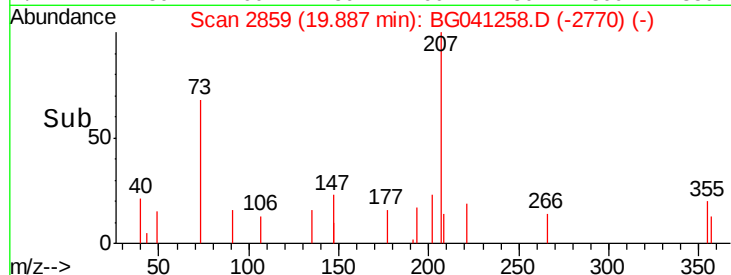
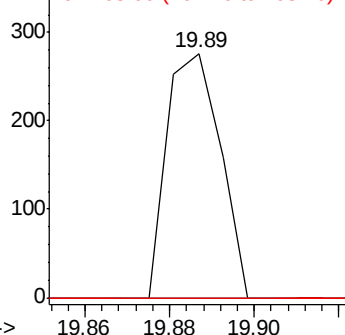
203 0.0 15.6 23.4#



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: 82.355 ng

RT: 20.06 min Scan# 2889

Delta R.T. -0.01 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

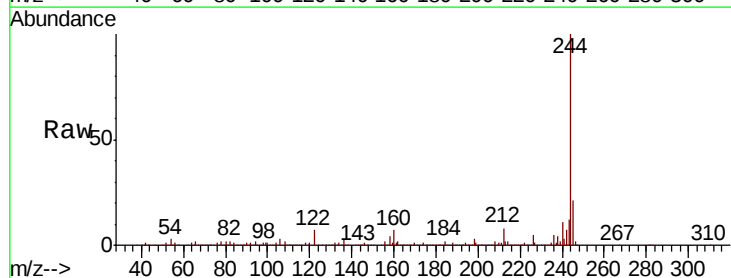
Tgt Ion:244 Resp: 1064649

Ion Ratio Lower Upper

244 100

212 8.0 7.0 10.4

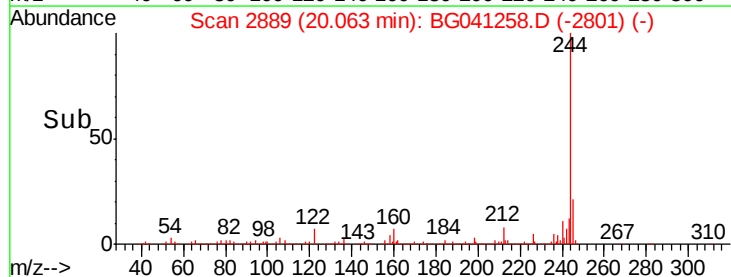
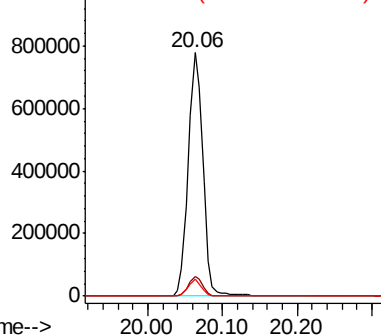
122 6.8 5.4 8.0

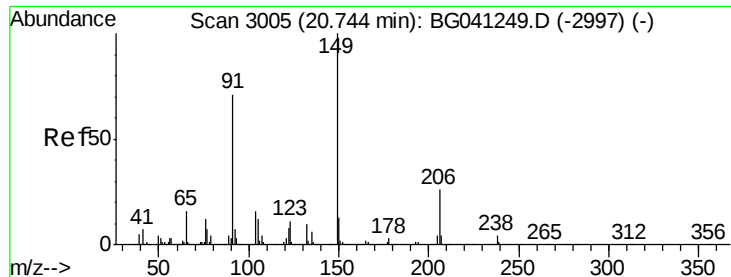


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

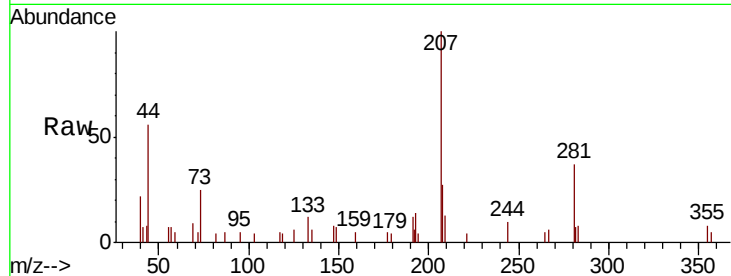




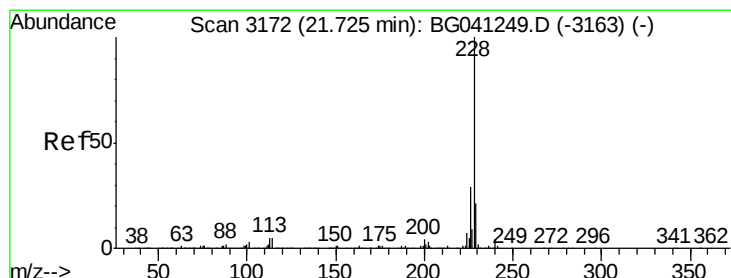
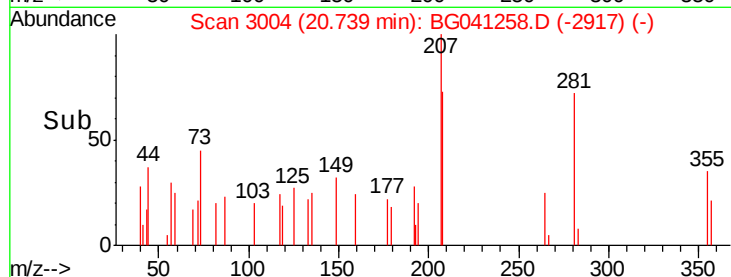
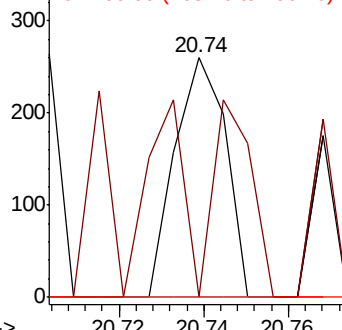
#80  
Butylbenzylphthalate  
Concen: 0.033 ng  
RT: 20.74 min Scan# 3004  
Delta R.T. -0.02 min  
Lab File: BG041258.D  
Acq: 14 Jun 2019 18:08

Instrument :  
BNA\_G  
ClientSampleId :  
CONCRETE-5

Tgt Ion:149 Resp: 217  
Ion Ratio Lower Upper  
149 100  
91 0.0 56.5 84.7#  
206 0.0 20.3 30.5#

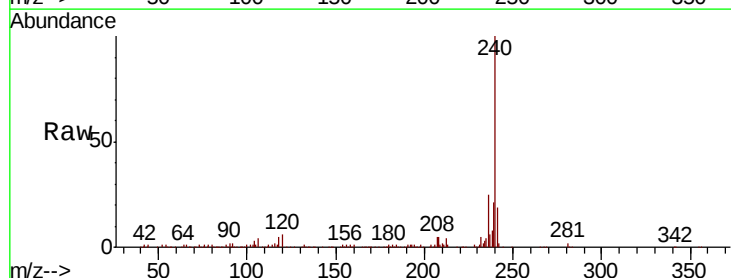


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 91.00 (90.70 to 91.70): BG0  
Ion 206.00 (205.70 to 206.70): E

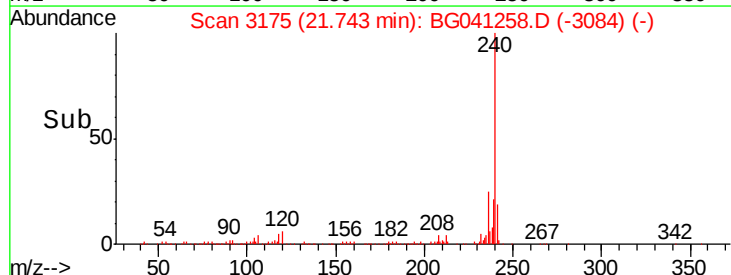
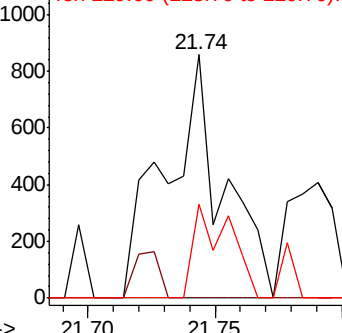


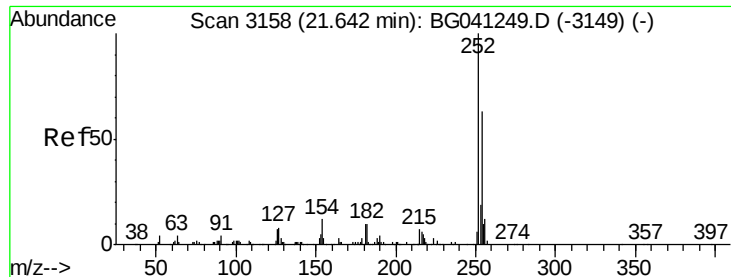
#81  
Benzo(a)anthracene  
Concen: 0.081 ng  
RT: 21.74 min Scan# 3175  
Delta R.T. 0.01 min  
Lab File: BG041258.D  
Acq: 14 Jun 2019 18:08

Tgt Ion:228 Resp: 1356  
Ion Ratio Lower Upper  
228 100  
226 0.0 23.5 35.3#  
229 38.5 16.7 25.1#



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

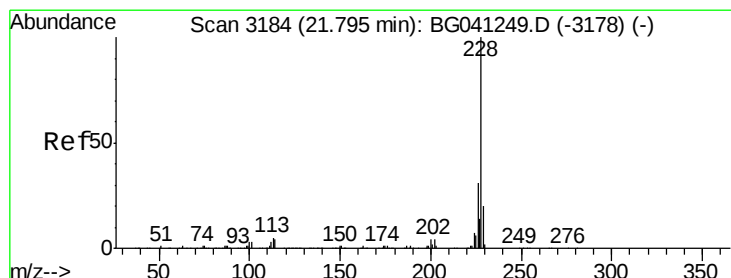
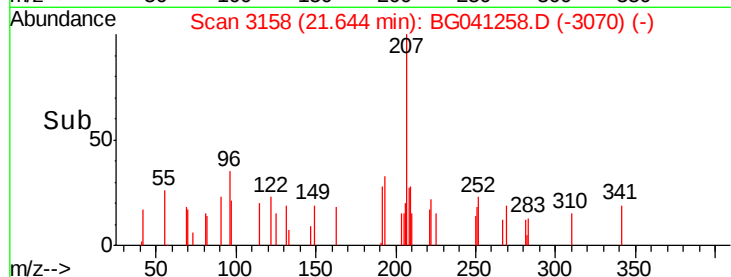
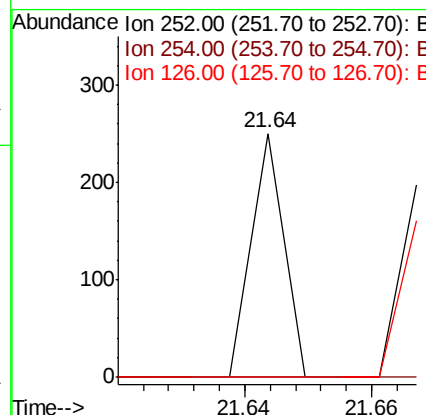
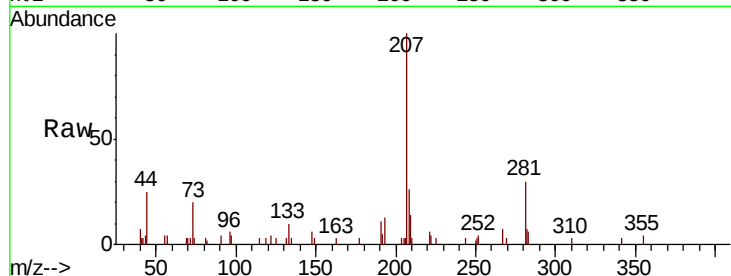




#82  
 3,3'-Dichlorobenzidine  
 Concen: 0.017 ng  
 RT: 21.64 min Scan# 3158  
 Delta R.T. -0.01 min  
 Lab File: BG041258.D  
 Acq: 14 Jun 2019 18:08

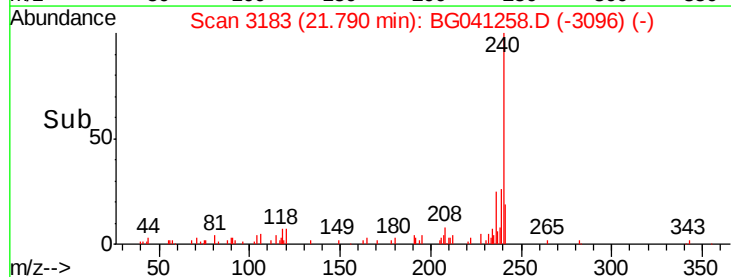
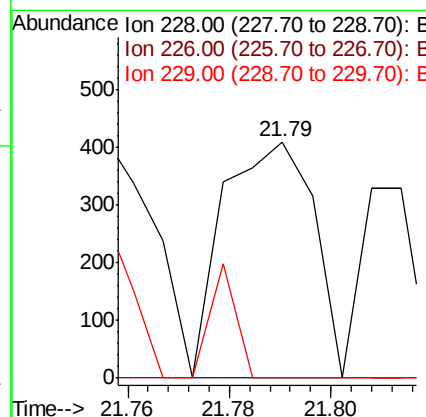
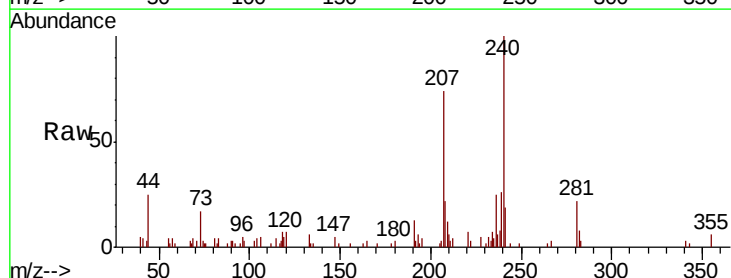
Instrument :  
 BNA\_G  
 ClientSampleId :  
 CONCRETE-5

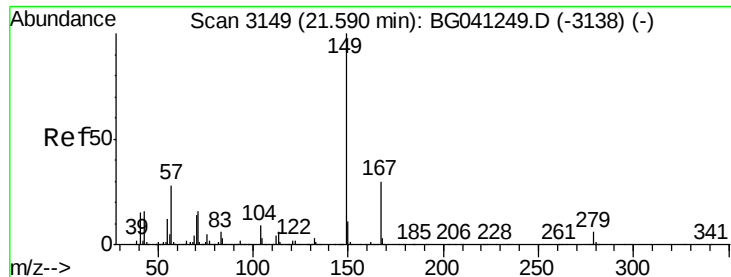
Tgt Ion:252 Resp: 88  
 Ion Ratio Lower Upper  
 252 100  
 254 0.0 52.1 78.1#  
 126 0.0 5.5 8.3#



#83  
 Chrysene  
 Concen: 0.030 ng  
 RT: 21.79 min Scan# 3183  
 Delta R.T. -0.02 min  
 Lab File: BG041258.D  
 Acq: 14 Jun 2019 18:08

Tgt Ion:228 Resp: 504  
 Ion Ratio Lower Upper  
 228 100  
 226 0.0 24.6 37.0#  
 229 0.0 16.6 24.8#





#84

Bis(2-ethylhexyl)phthalate

Concen: 0.105 ng

RT: 21.59 min Scan# 3149

Delta R.T. -0.02 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

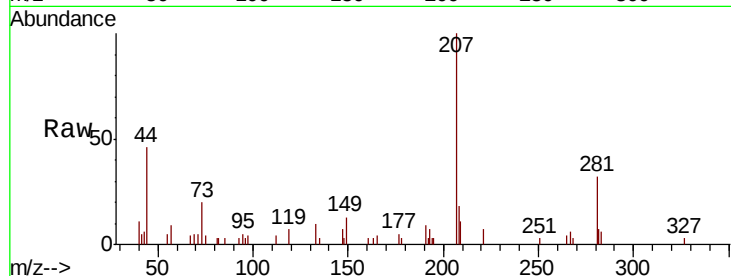
Tgt Ion:149 Resp: 976

Ion Ratio Lower Upper

149 100

167 0.0 24.6 37.0#

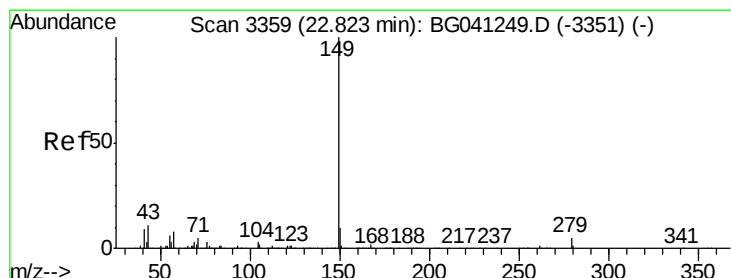
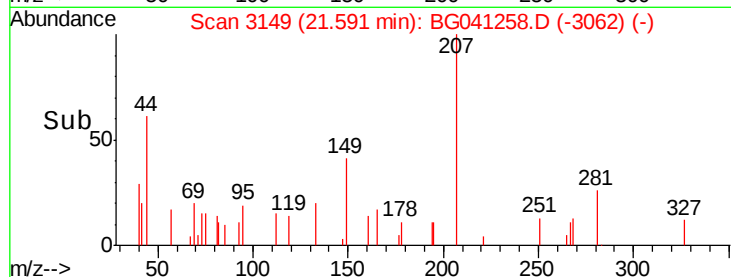
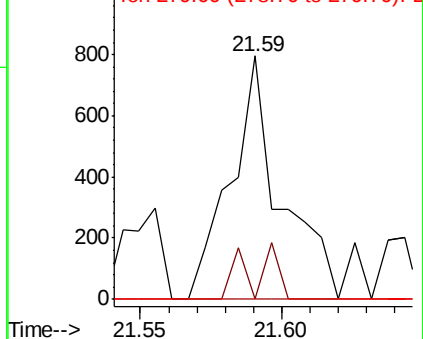
279 0.0 5.0 7.6#



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: 0.036 ng

RT: 22.82 min Scan# 3358

Delta R.T. -0.03 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

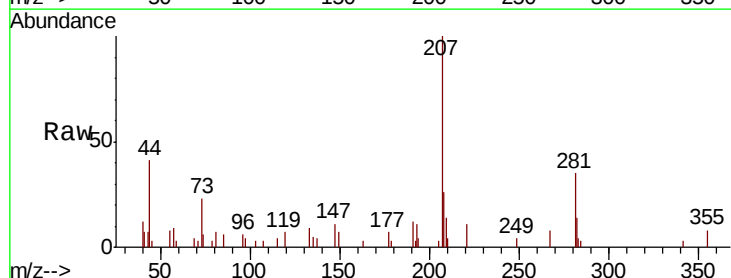
Tgt Ion:149 Resp: 549

Ion Ratio Lower Upper

149 100

167 0.0 1.4 2.0#

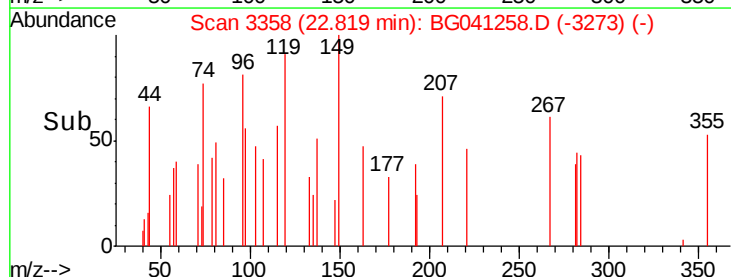
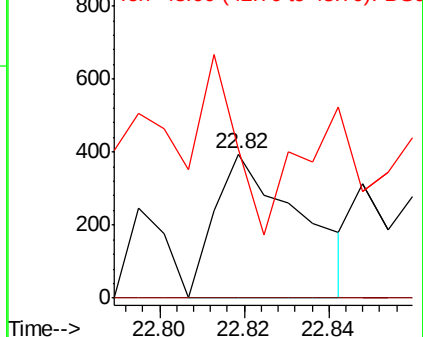
43 128.1 8.1 12.1#

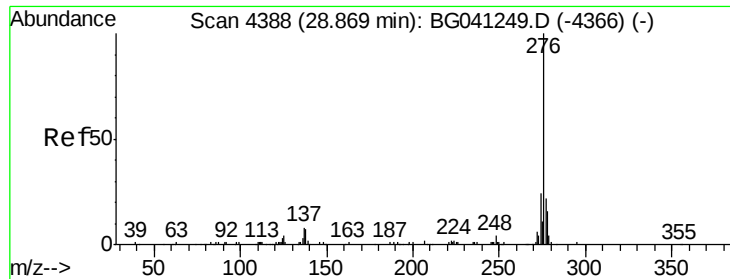


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BGC





#86

Indeno(1,2,3-cd)pyrene

Concen: 0.033 ng

RT: 28.88 min Scan# 4390

Delta R.T. -0.02 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

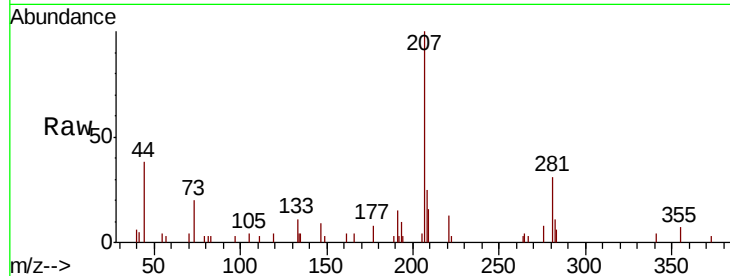
Tgt Ion:276 Resp: 331

Ion Ratio Lower Upper

276 100

138 0.0 5.7 8.5#

277 0.0 20.8 31.2#

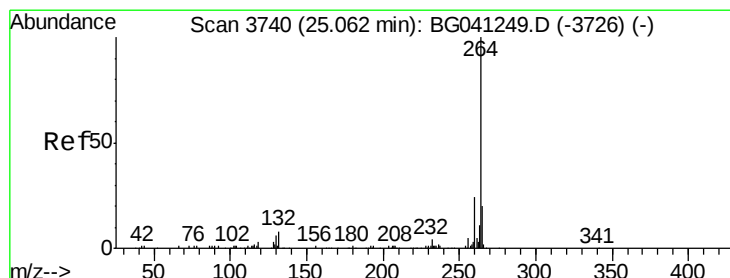
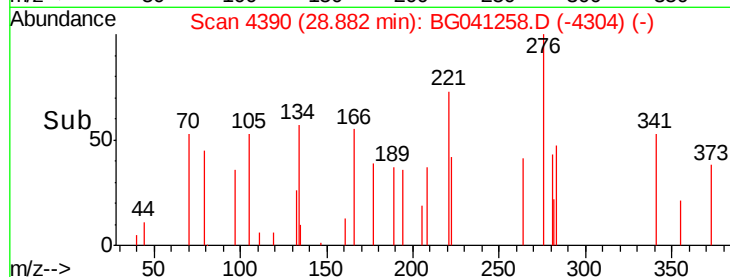
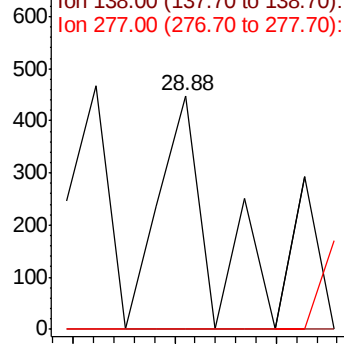


Abundance

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

Perylene-d12

Concen: 20.000 ng

RT: 25.06 min Scan# 3740

Delta R.T. -0.02 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

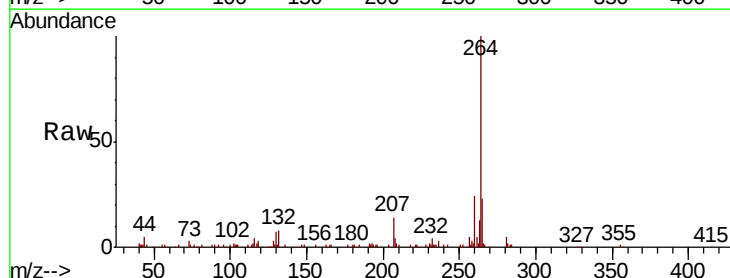
Tgt Ion:264 Resp: 187268

Ion Ratio Lower Upper

264 100

260 24.5 19.0 28.4

265 23.2 17.0 25.4

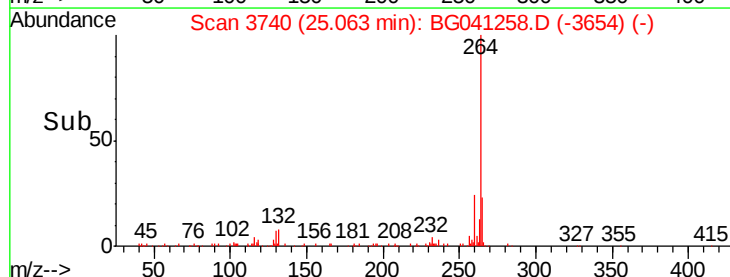
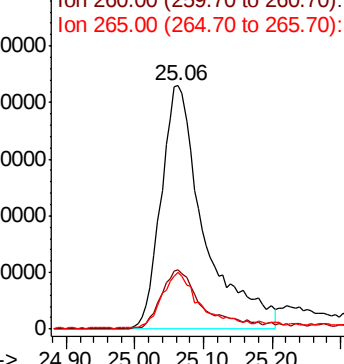


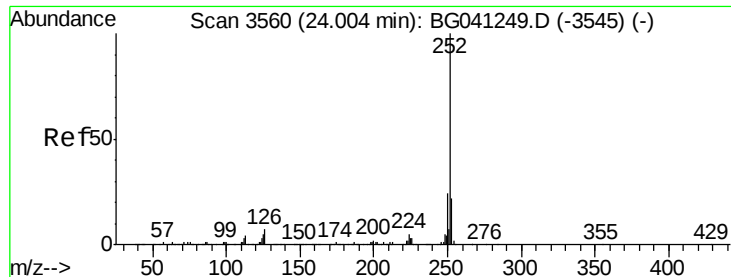
Abundance

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





#88

Benzo(b)fluoranthene

Concen: 0.051 ng

RT: 24.01 min Scan# 3560

Delta R.T. -0.01 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

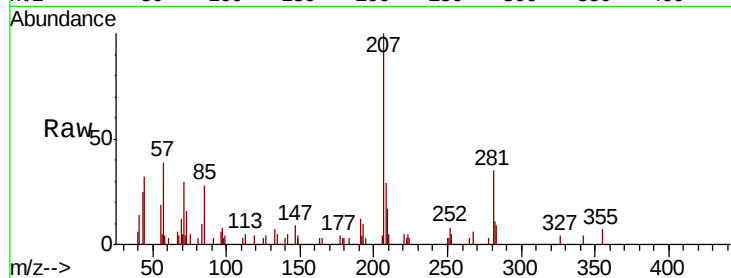
Tgt Ion:252 Resp: 580

Ion Ratio Lower Upper

252 100

253 61.9 18.4 27.6#

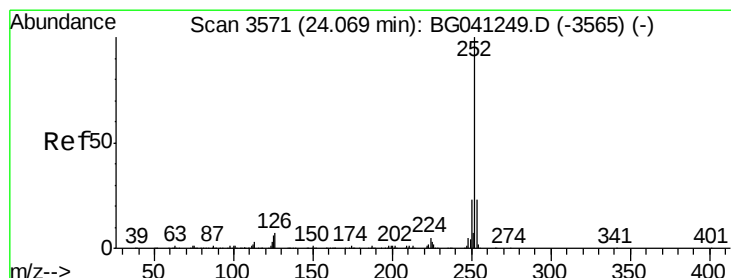
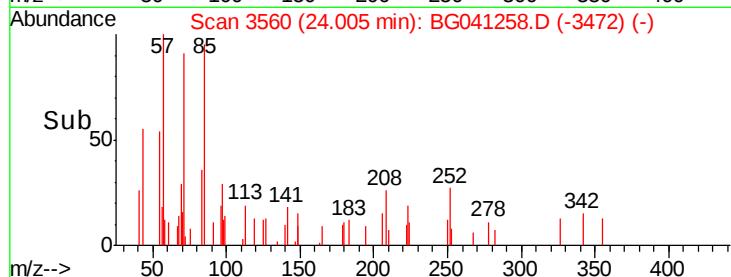
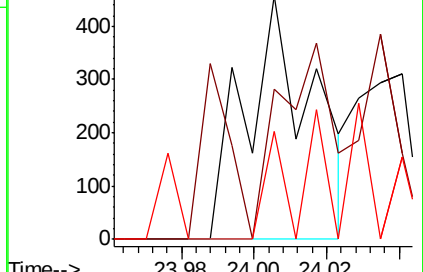
125 44.2 4.3 6.5#



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



#89

Benzo(k)fluoranthene

Concen: 0.028 ng

RT: 24.05 min Scan# 3568

Delta R.T. -0.04 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

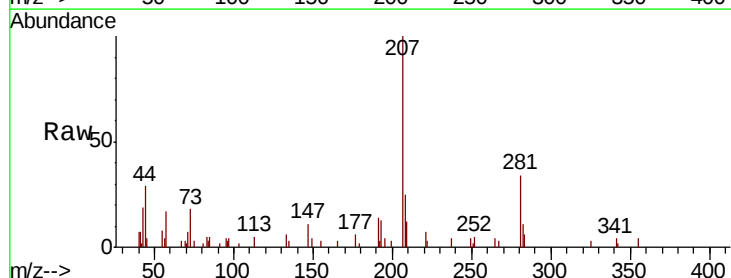
Tgt Ion:252 Resp: 386

Ion Ratio Lower Upper

252 100

253 0.0 17.8 26.6#

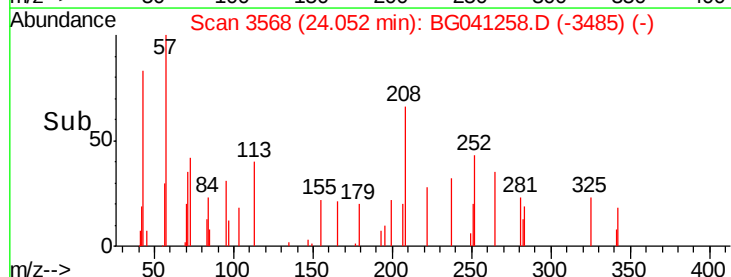
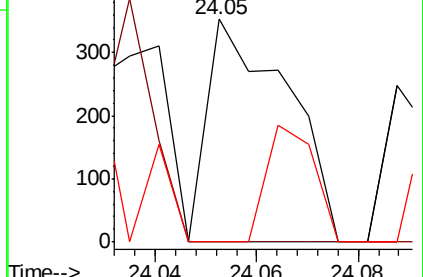
125 0.0 4.7 7.1#

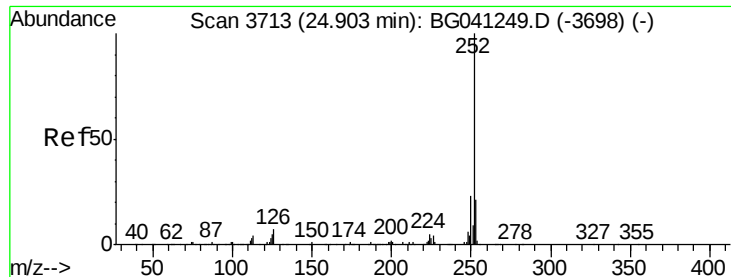


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 0.024 ng

RT: 24.90 min Scan# 3713

Delta R.T. -0.02 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-5

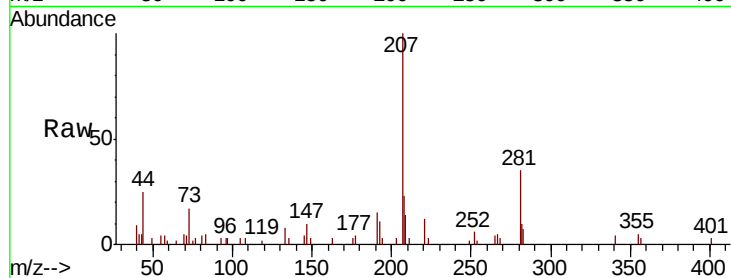
Tgt Ion: 252 Resp: 271

Ion Ratio Lower Upper

252 100

253 41.6 19.5 29.3#

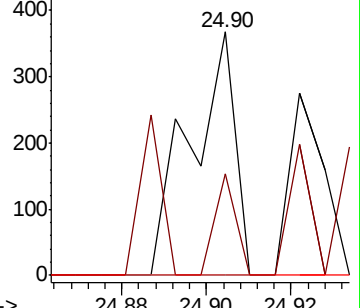
125 0.0 5.1 7.7#



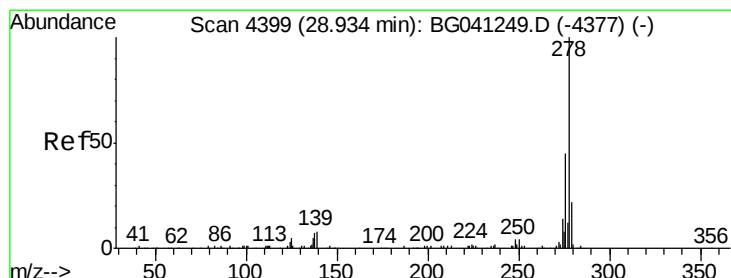
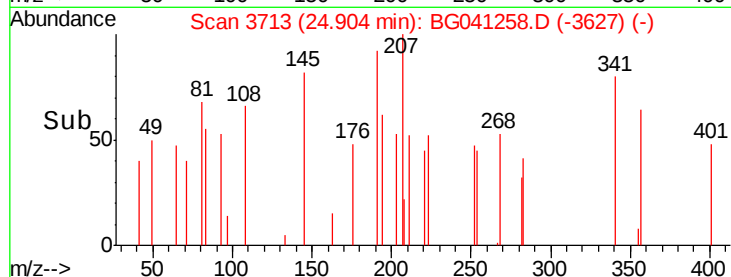
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#91

Dibenzo(a,h)anthracene

Concen: 0.057 ng

RT: 28.92 min Scan# 4397

Delta R.T. -0.04 min

Lab File: BG041258.D

Acq: 14 Jun 2019 18:08

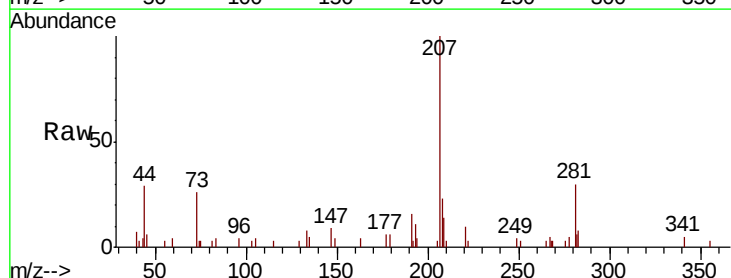
Tgt Ion: 278 Resp: 363

Ion Ratio Lower Upper

278 100

139 0.0 7.1 10.7#

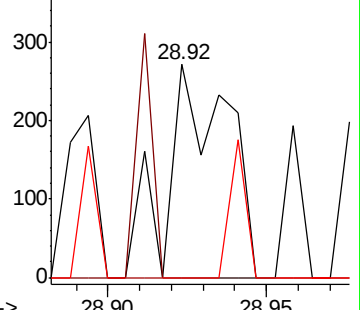
279 0.0 19.4 29.2#



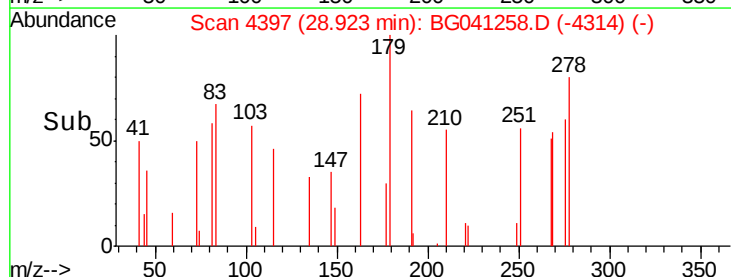
Abundance Ion 278.00 (277.70 to 278.70): E

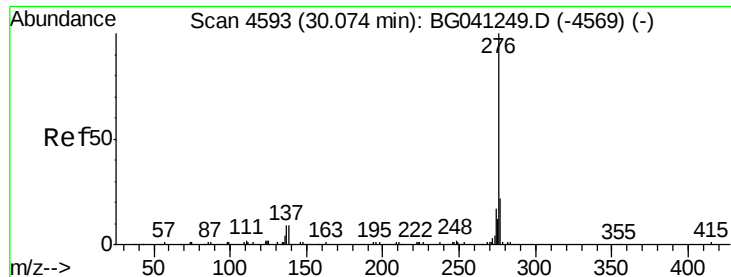
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->

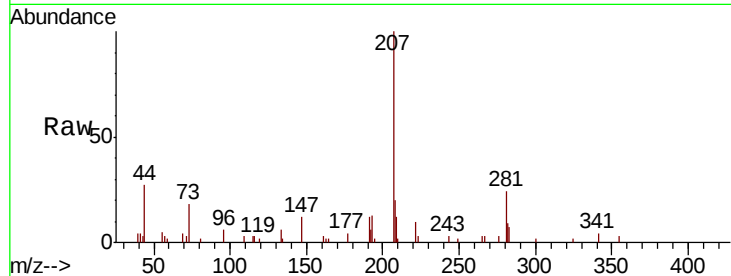




#92  
 Benzo(g,h,i)perylene  
 Concen: 0.035 ng  
 RT: 30.07 min Scan# 4593  
 Delta R.T. -0.04 min  
 Lab File: BG041258.D  
 Acq: 14 Jun 2019 18:08

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CONCRETE-5

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 0.0   | 19.4  | 29.0  |
| 138     | 0.0   | 9.7   | 14.5  |



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

