

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121716\  
 Data File : BG025289.D  
 Acq On : 18 Dec 2016 00:44  
 Operator : UM/SJ  
 Sample : H5995-15DL 5X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 18 04:02:48 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Dec 18 03:57:56 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.23  | 152  | 79607    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.06 | 136  | 302746   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.86 | 164  | 234505   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.61 | 188  | 489951   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.90 | 240  | 631138   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.33 | 264  | 647265   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |       |       |
|--------------------------------|-------|-----|-------|------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.58  | 96  | 1209  | 0.78 | ng/uL | 0.00  |
| 5) Phenol-d5                   | 7.40  | 99  | 20906 | 3.04 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.55  | 67  | 15897 | 3.74 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.76  | 132 | 13804 | 2.87 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.94  | 113 | 15722 | 2.74 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.41  | 128 | 8659  | 4.04 | ng/ul | -0.01 |
| 22) 2-Nitrophenol-d4           | 10.14 | 143 | 8444  | 3.16 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.68 | 165 | 17537 | 3.41 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 11.22 | 131 | 40648 | 8.05 | ng/ul | 0.02  |
| 43) Dimethylphthalate-d6       | 14.26 | 166 | 54782 | 3.40 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.56 | 160 | 71321 | 4.04 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 15.13 | 143 | 18169 | 6.55 | ng/ul | 0.04  |
| 57) Fluorene-d10               | 15.85 | 176 | 86675 | 5.71 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 16.00 | 200 | 9582  | 3.16 | ng/ul | 0.01  |
| 70) Anthracene-d10             | 17.71 | 188 | 82417 | 3.99 | ng/ul | 0.00  |
| 76) Pyrene-d10                 | 19.98 | 212 | 97856 | 3.76 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 25.09 | 264 | 93781 | 3.58 | ng/ul | 0.00  |

## Target Compounds

|                                |       |     |        |       | Ovalue    |
|--------------------------------|-------|-----|--------|-------|-----------|
| 4) Benzaldehyde                | 7.36  | 77  | 7059   | 1.37  | ng/ul# 1  |
| 6) Phenol                      | 7.42  | 94  | 57427  | 8.15  | ng/ul 98  |
| 11) 2-Methylphenol             | 8.68  | 108 | 70439  | 13.57 | ng/ul 94  |
| 16) 4-Methylphenol             | 9.02  | 108 | 184958 | 32.03 | ng/ul 84  |
| 17) Hexachloroethane           | 9.34  | 117 | 21554  | 10.08 | ng/ul# 1  |
| 20) Nitrobenzene               | 9.42  | 77  | 9358   | 1.42  | ng/ul# 52 |
| 21) Isophorone                 | 9.95  | 82  | 13320  | 1.07  | ng/ul# 1  |
| 24) 2,4-Dimethylphenol         | 10.22 | 107 | 316533 | 51.05 | ng/ul 93  |
| 25) Bis(2-Chloroethoxy)methane | 10.50 | 93  | 18953  | 2.98  | ng/ul# 1  |
| 28) Naphthalene                | 11.11 | 128 | 289209 | 20.55 | ng/ul# 97 |
| 32) Caprolactam                | 12.02 | 113 | 25198  | 12.16 | ng/ul# 1  |
| 34) 2-Methylnaphthalene        | 12.70 | 142 | 639610 | 57.59 | ng/ul 100 |
| 40) 1,1'-Biphenyl              | 13.69 | 154 | 112499 | 7.91  | ng/ul 99  |
| 41) 2-Chloronaphthalene        | 13.78 | 162 | 13866  | 1.23  | ng/ul# 43 |
| 45) 2,6-Dinitrotoluene         | 14.46 | 165 | 5290   | 1.55  | ng/ul# 18 |
| 47) Acenaphthylene             | 14.58 | 152 | 27323  | 1.59  | ng/ul# 1  |
| 49) Acenaphthene               | 14.93 | 153 | 77233  | 6.56  | ng/ul# 74 |
| 53) Dibenzofuran               | 15.25 | 168 | 142288 | 7.64  | ng/ul# 79 |
| 54) 2,4-Dinitrotoluene         | 15.24 | 165 | 28470  | 5.55  | ng/ul# 16 |
| 58) Fluorene                   | 15.91 | 166 | 243762 | 16.09 | ng/ul# 94 |
| 63) 4,6-Dinitro-2-methylphenol | 16.02 | 198 | 4720   | 1.50  | ng/ul# 1  |
| 64) N-Nitrosodiphenylamine     | 16.10 | 169 | 134523 | 10.67 | ng/ul# 42 |
| 69) Phenanthrene               | 17.65 | 178 | 474001 | 20.27 | ng/ul# 96 |

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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_G  
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Quant Title : SVOA CALIBRATION  
QLast Update : Sun Dec 18 03:57:56 2016  
Response via : Initial Calibration

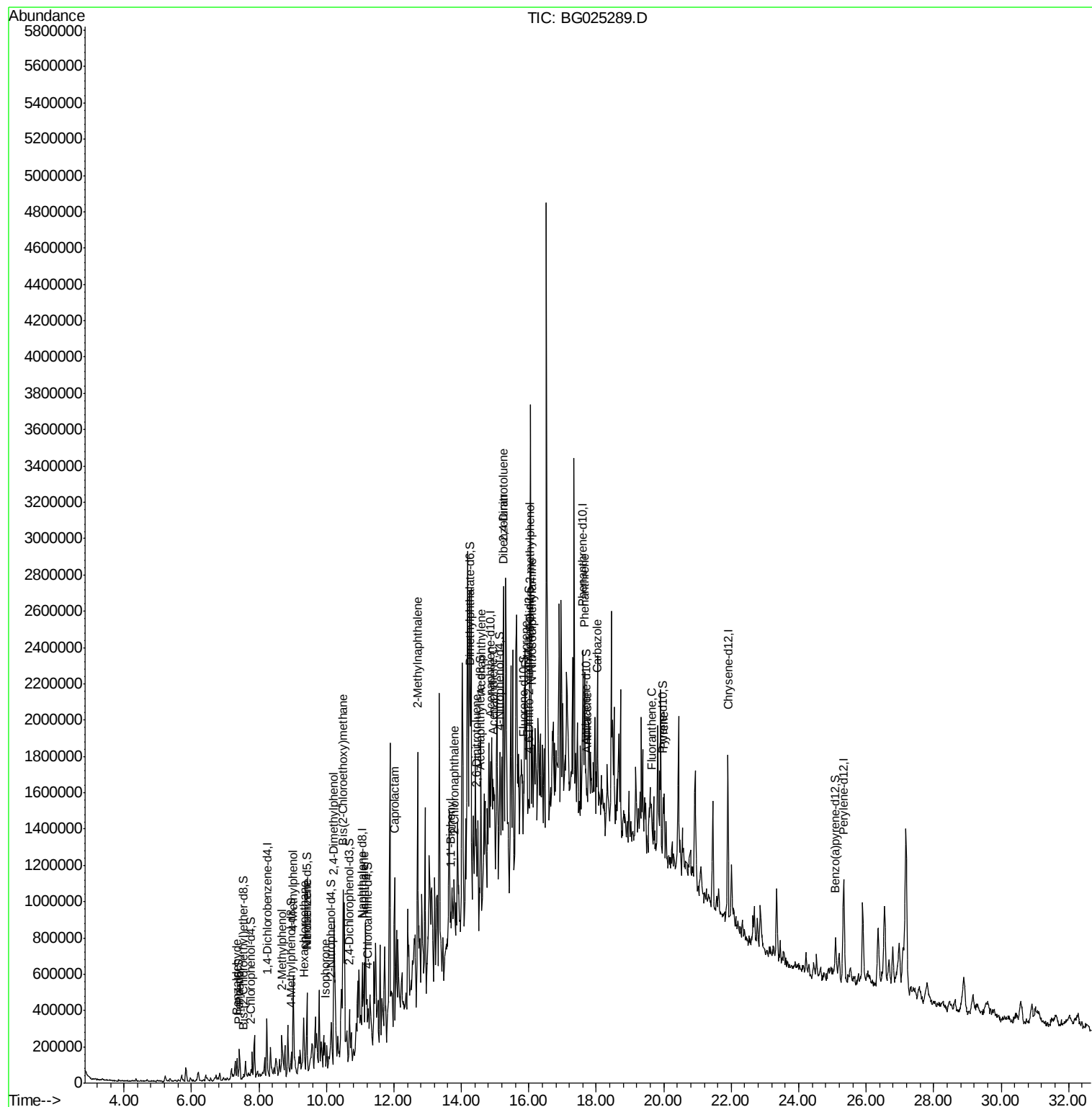
| Internal Standards | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|--------------------|-------|------|----------|------|--------|----------|
| 71) Anthracene     | 17.74 | 178  | 50450    | 2.10 | ng/ul# | 51       |
| 72) Carbazole      | 18.02 | 167  | 32079    | 1.60 | ng/ul# | 43       |
| 74) Fluoranthene   | 19.64 | 202  | 80443    | 2.89 | ng/ul# | 97       |
| 77) Pyrene         | 20.01 | 202  | 116424   | 3.84 | ng/ul  | 98       |

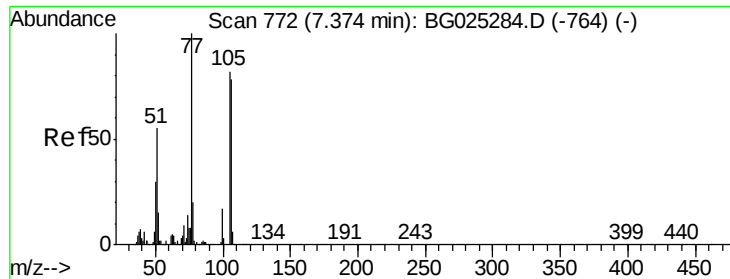
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sun Dec 18 03:57:56 2016  
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 1.37 ng/ul

RT: 7.36 min Scan# 769

Delta R.T. -0.02 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

Instrument :

BNA\_G

ClientSampleId :

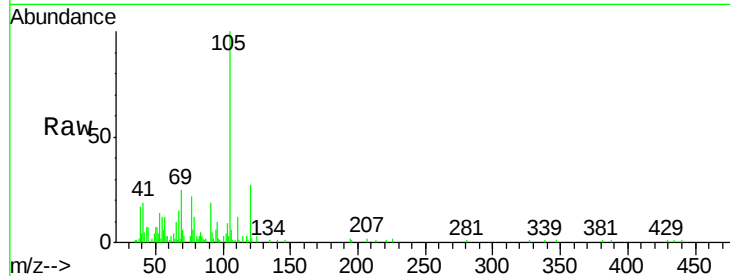
Tot Ion: 77 Resp: 7059

Ion Ratio Lower Upper

77 100

105 464.2 62.0 93.0#

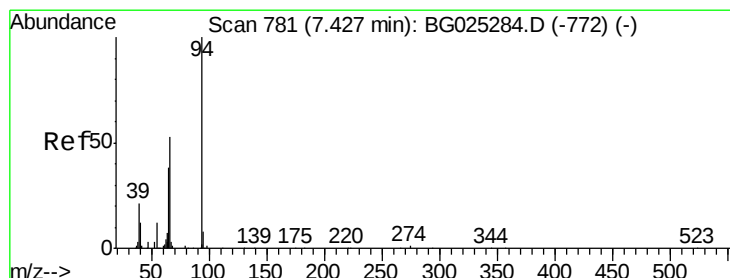
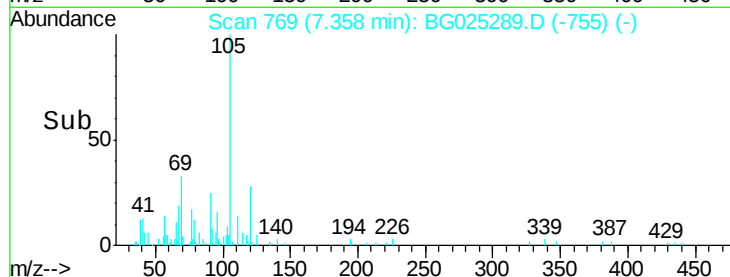
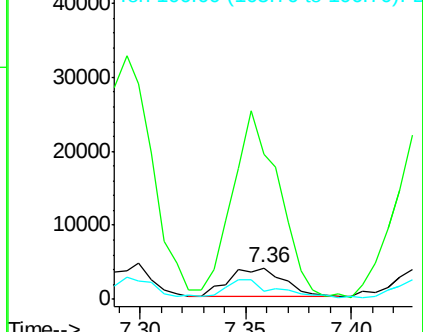
106 25.7 60.2 90.4#



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



#6

Phenol

Concen: 8.15 ng/ul

RT: 7.42 min Scan# 780

Delta R.T. -0.00 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

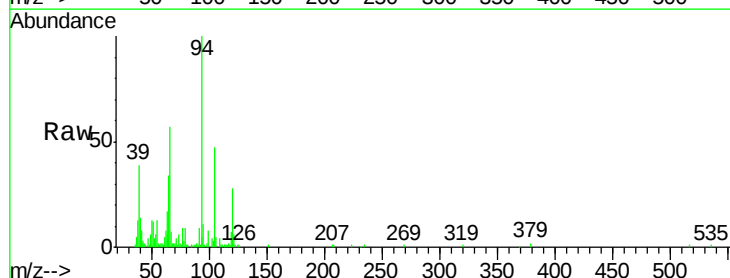
Tgt Ion: 94 Resp: 57427

Ion Ratio Lower Upper

94 100

65 33.9 26.8 40.2

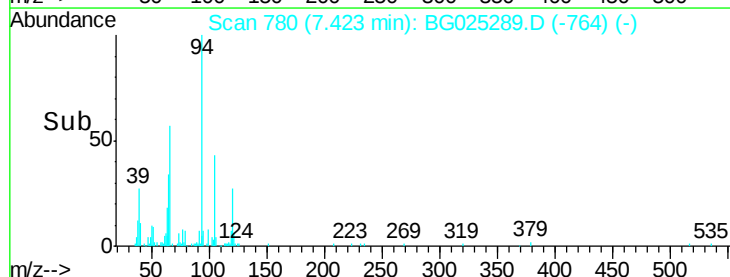
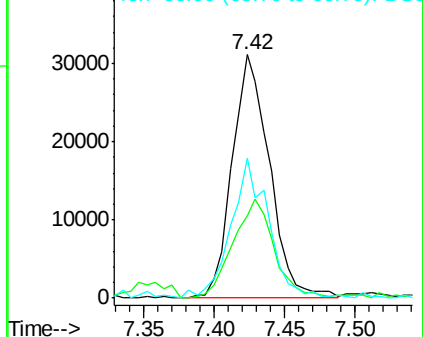
66 57.3 44.4 66.6

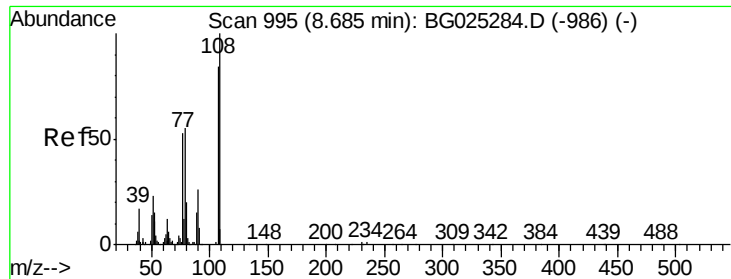


Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

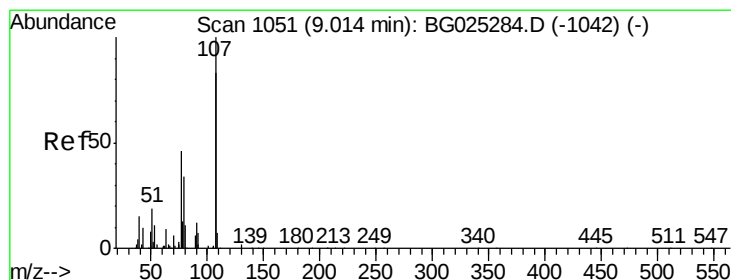
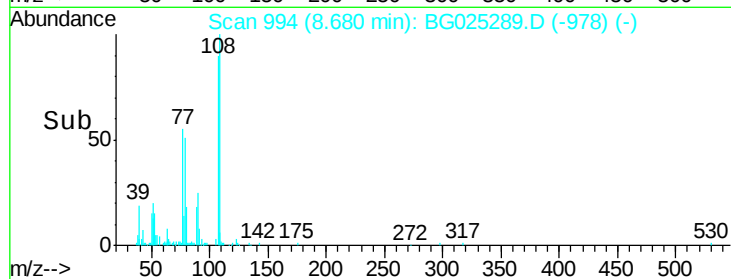
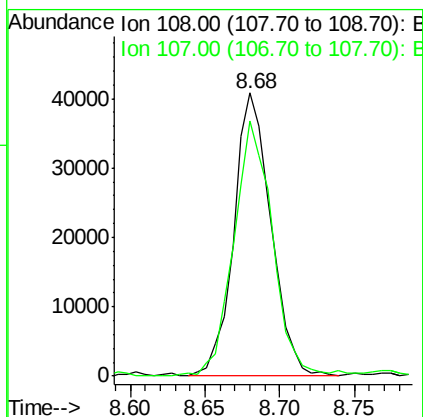
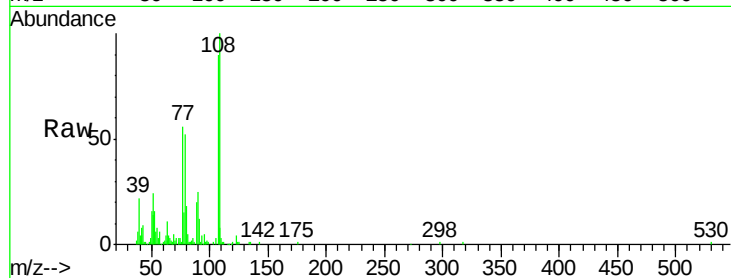




#11  
2-Methylphenol  
Concen: 13.57 ng/ul  
RT: 8.68 min Scan# 994  
Delta R.T. -0.00 min  
Lab File: BG025289.D  
Acq: 18 Dec 2016 00:44

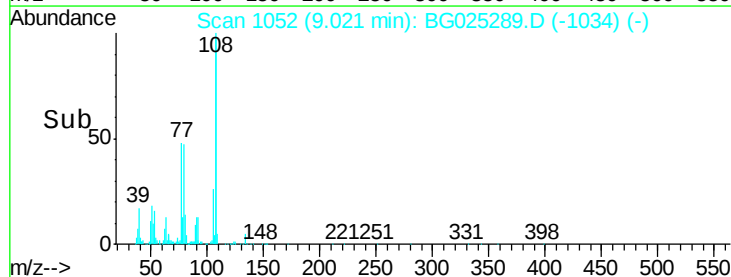
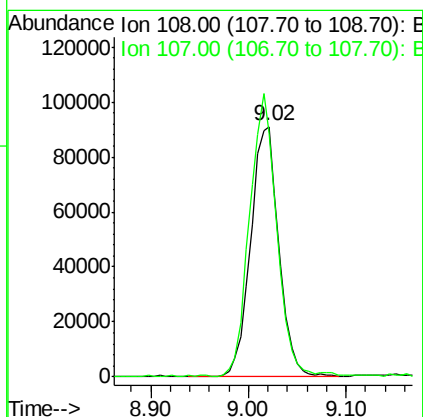
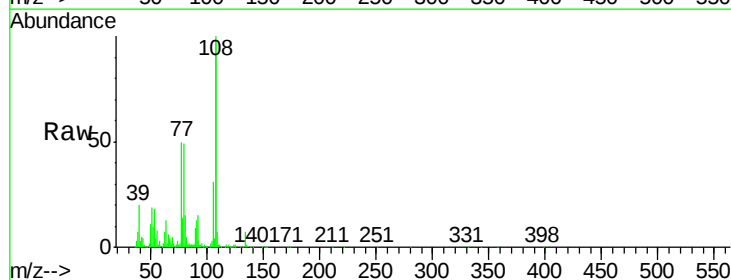
Instrument :  
BNA\_G  
ClientSampleId :

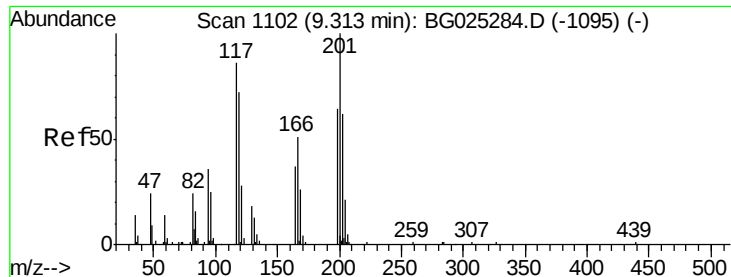
Tot Ion:108 Resp: 70439  
Ion Ratio Lower Upper  
108 100  
107 90.3 76.7 115.1



#16  
4-Methylphenol  
Concen: 32.03 ng/ul  
RT: 9.02 min Scan# 1052  
Delta R.T. 0.01 min  
Lab File: BG025289.D  
Acq: 18 Dec 2016 00:44

Tgt Ion:108 Resp: 184958  
Ion Ratio Lower Upper  
108 100  
107 97.2 91.7 137.5





#17

Hexachloroethane

Concen: 10.08 ng/ul

RT: 9.34 min Scan# 1106

Delta R.T. 0.03 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

Instrument :

BNA\_G

ClientSampleId :

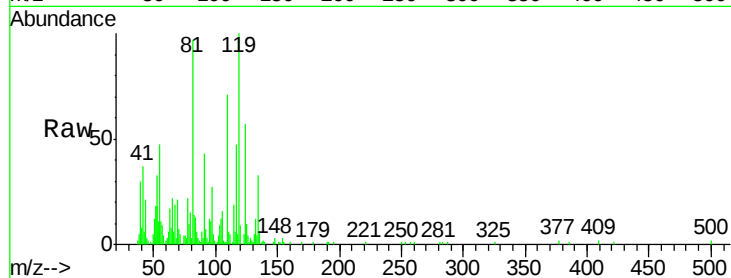
Tot Ion:117 Resp: 21554

Ion Ratio Lower Upper

117 100

201 0.0 91.9 137.9#

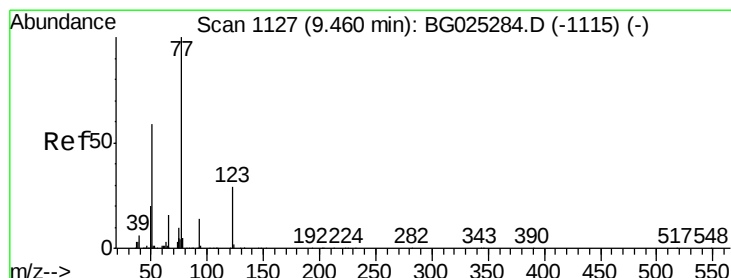
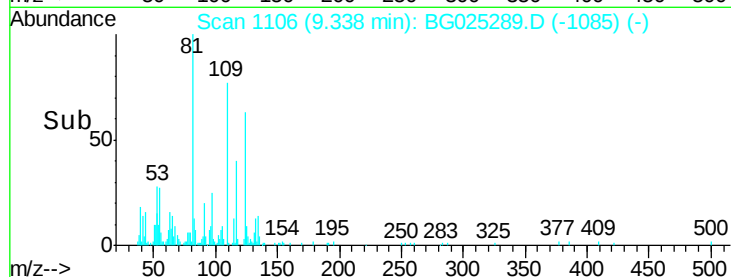
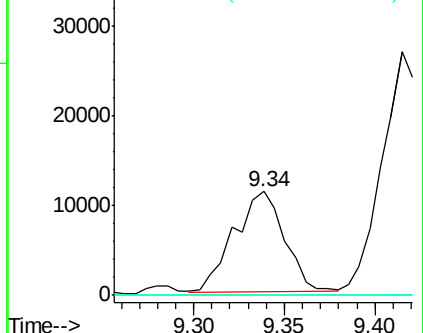
199 0.0 64.3 96.5#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E



#20

Nitrobenzene

Concen: 1.42 ng/ul

RT: 9.42 min Scan# 1120

Delta R.T. -0.04 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

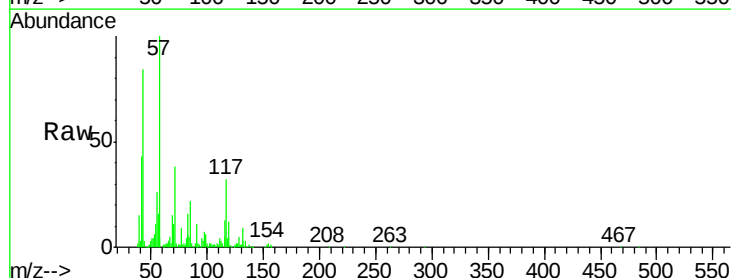
Tgt Ion: 77 Resp: 9358

Ion Ratio Lower Upper

77 100

123 5.8 27.4 41.0#

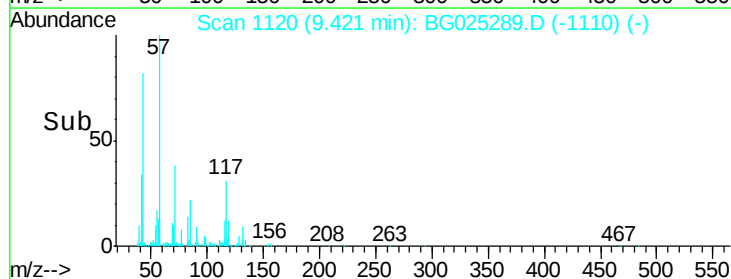
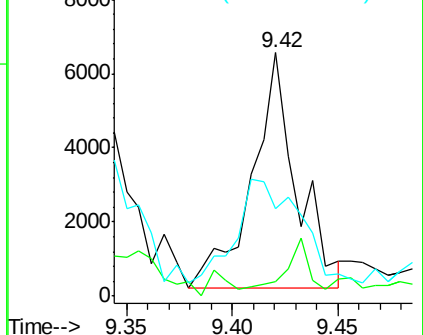
65 35.7 13.3 19.9#

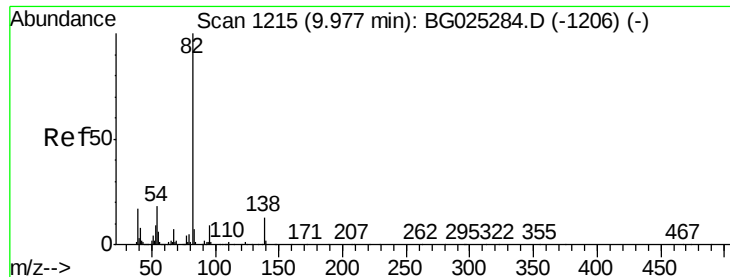


Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 123.00 (122.70 to 123.70): E

Ion 65.00 (64.70 to 65.70): BGC





#21

Isophorone

Concen: 1.07 ng/ul

RT: 9.95 min Scan# 1210

Delta R.T. -0.03 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

Instrument :

BNA\_G

ClientSampleId :

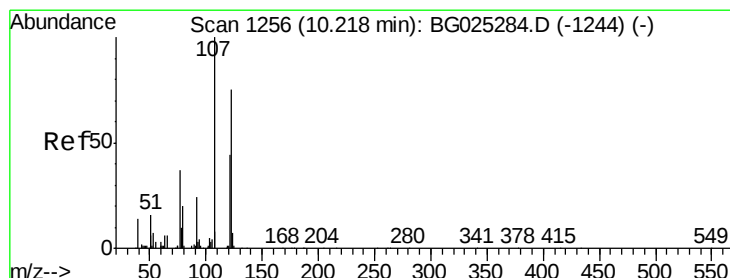
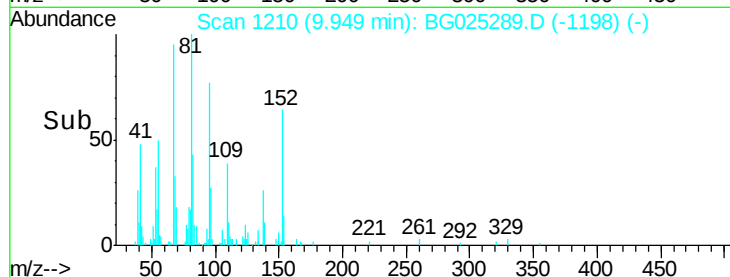
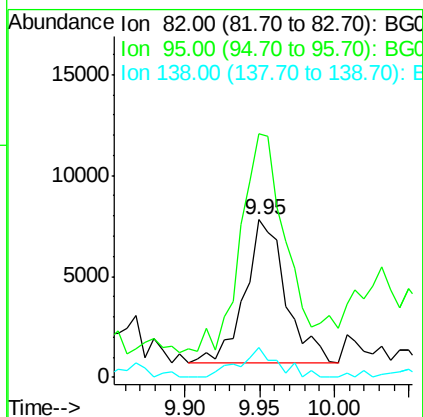
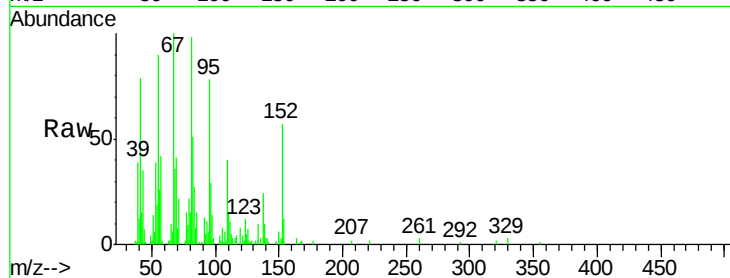
Tot Ion: 82 Resp: 13320

Ion Ratio Lower Upper

82 100

95 154.6 7.8 11.6#

138 19.0 12.2 18.2#



#24

2,4-Dimethylphenol

Concen: 51.05 ng/ul

RT: 10.22 min Scan# 1256

Delta R.T. 0.00 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

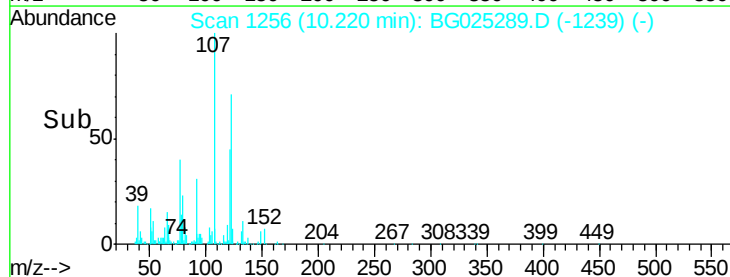
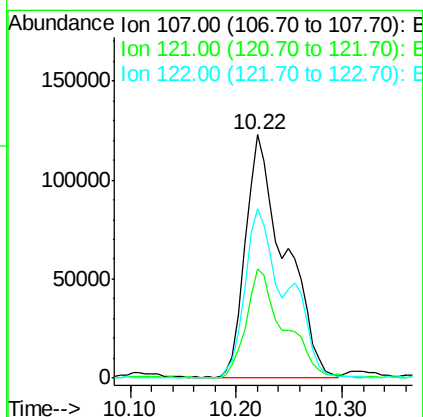
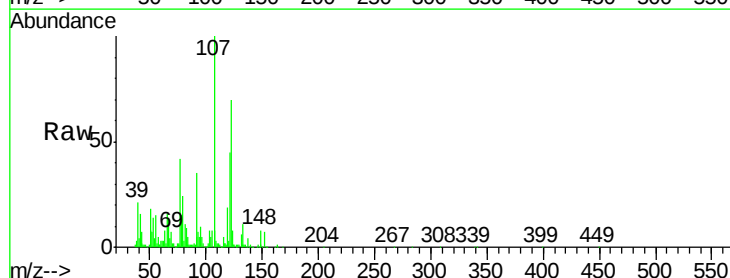
Tgt Ion: 107 Resp: 316533

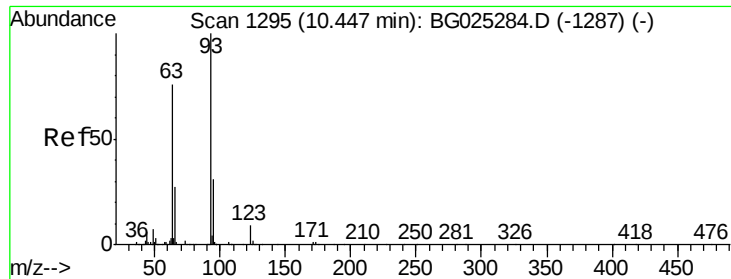
Ion Ratio Lower Upper

107 100

121 44.7 32.3 48.5

122 69.8 61.2 91.8





#25

Bis(2-Chloroethoxy)methane

Concen: 2.98 ng/ul

RT: 10.50 min Scan# 1303

Delta R.T. 0.05 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

Instrument :

BNA\_G

ClientSampleId :

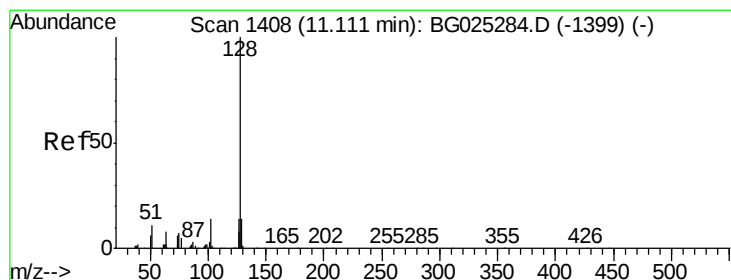
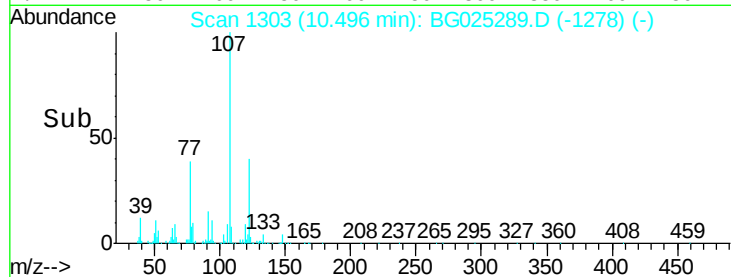
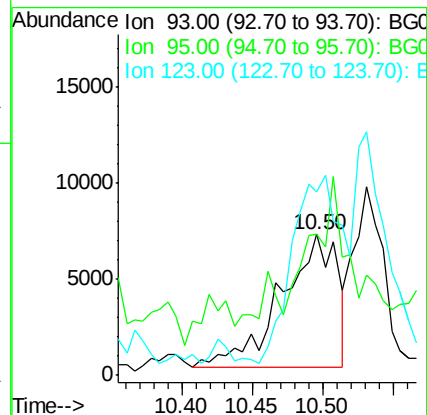
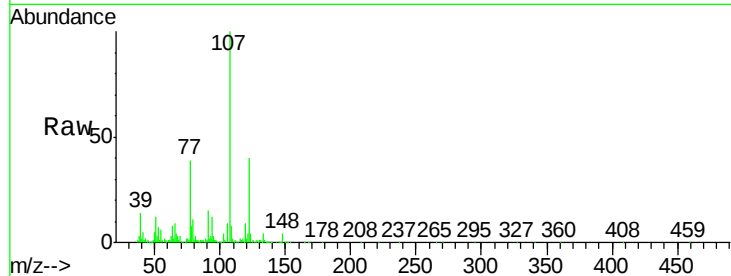
Tot Ion: 93 Resp: 18953

Ion Ratio Lower Upper

93 100

95 99.9 23.4 35.0#

123 130.1 7.8 11.6#



#28

Naphthalene

Concen: 20.55 ng/ul

RT: 11.11 min Scan# 1408

Delta R.T. 0.00 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

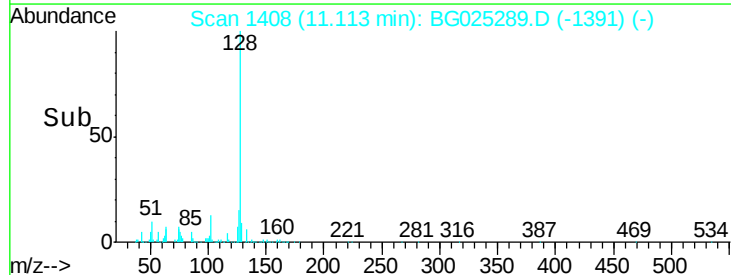
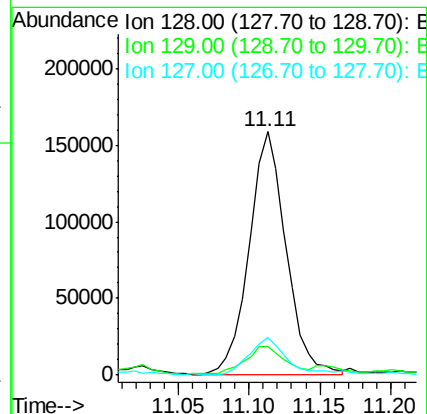
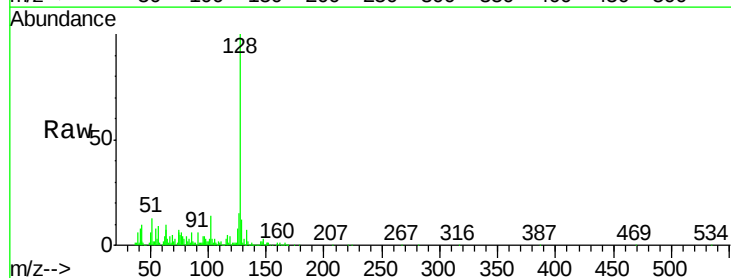
Tgt Ion: 128 Resp: 289209

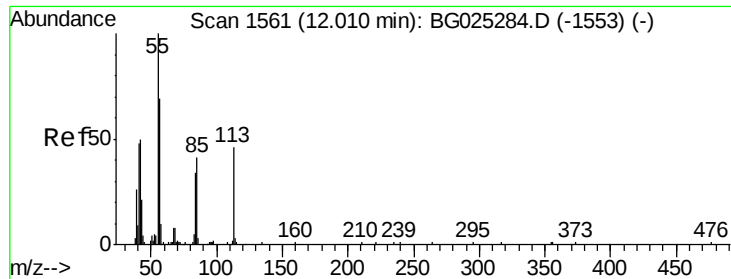
Ion Ratio Lower Upper

128 100

129 11.8 9.4 14.2

127 15.5 10.3 15.5#





#32

Caprolactam

Concen: 12.16 ng/ul

RT: 12.02 min Scan# 1562

Delta R.T. 0.01 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

Instrument :

BNA\_G

ClientSampleId :

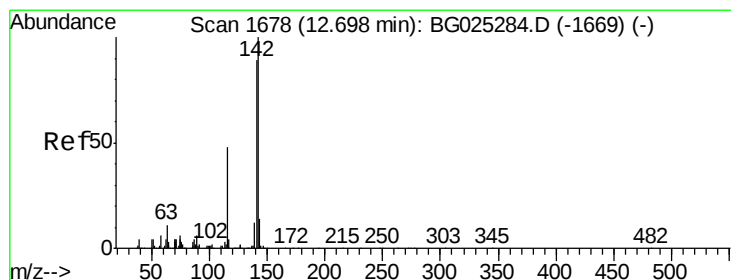
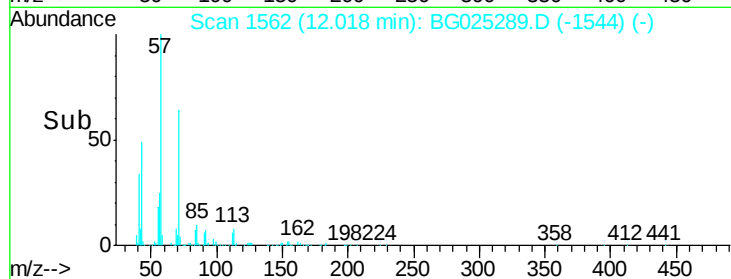
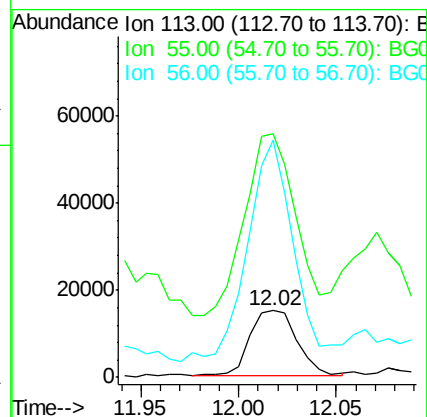
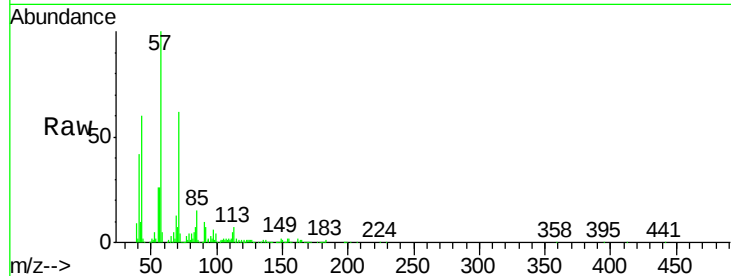
Tot Ion:113 Resp: 25198

Ion Ratio Lower Upper

113 100

55 366.6 168.6 252.8#

56 357.3 128.5 192.7#



#34

2-Methylnaphthalene

Concen: 57.59 ng/ul

RT: 12.70 min Scan# 1678

Delta R.T. 0.00 min

Lab File: BG025289.D

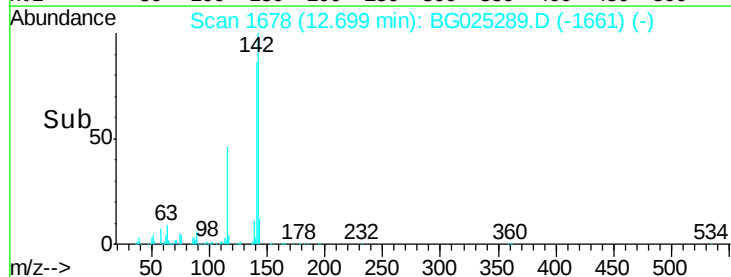
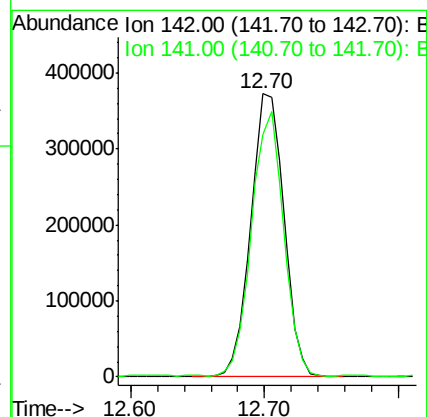
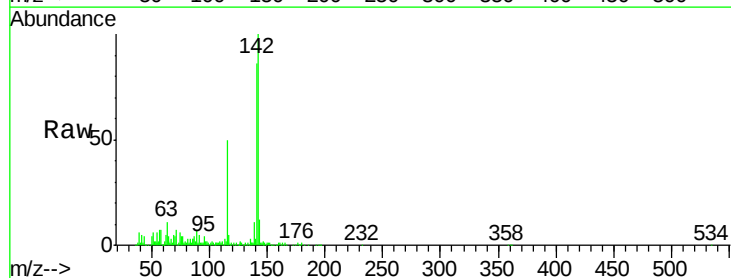
Acq: 18 Dec 2016 00:44

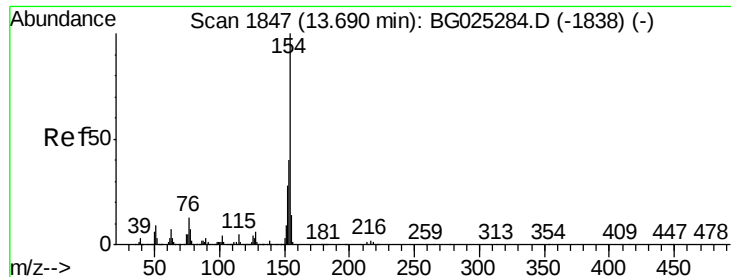
Tgt Ion:142 Resp: 639610

Ion Ratio Lower Upper

142 100

141 85.8 68.6 102.8

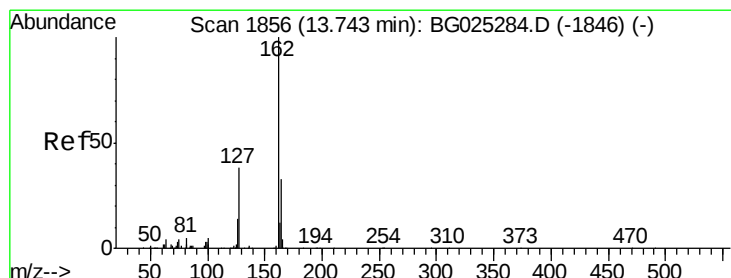
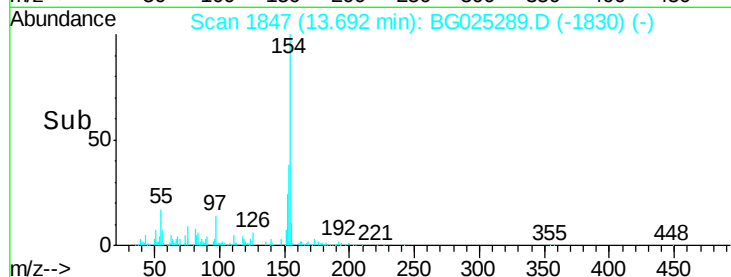
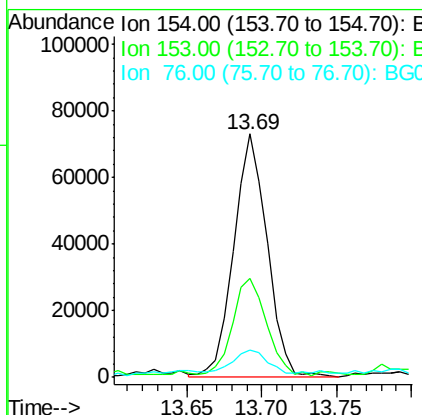
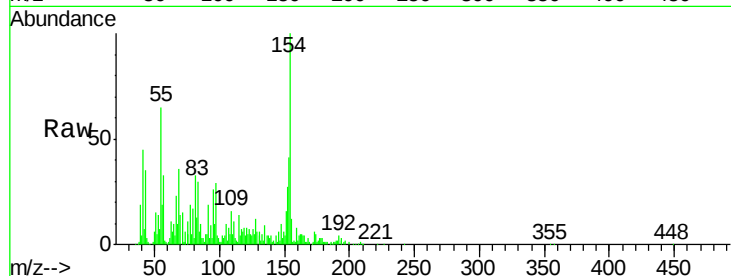




#40  
 1,1'-Biphenyl  
 Concen: 7.91 ng/ul  
 RT: 13.69 min Scan# 1847  
 Delta R.T. 0.00 min  
 Lab File: BG025289.D  
 Acq: 18 Dec 2016 00:44

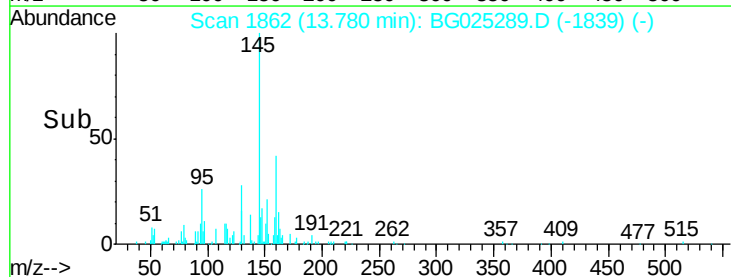
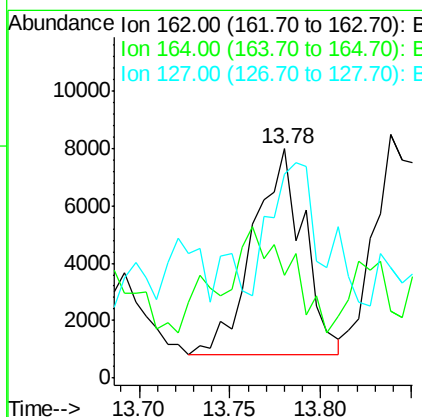
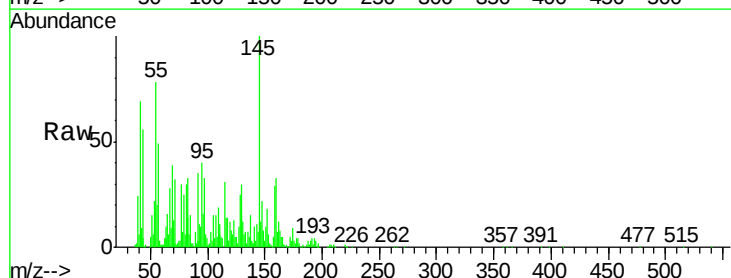
Instrument :  
 BNA\_G  
 ClientSampled :

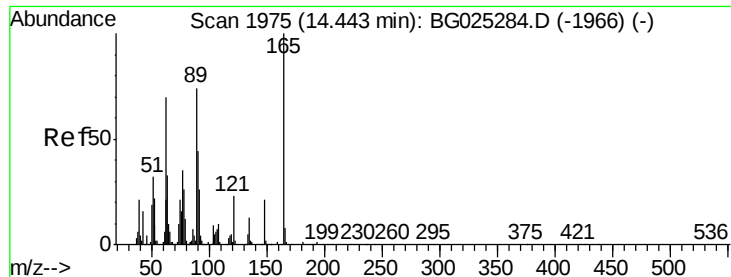
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 40.6  | 32.2  | 48.2  |
| 76      | 11.0  | 9.6   | 14.4  |



#41  
 2-Chloronaphthalene  
 Concen: 1.23 ng/ul  
 RT: 13.78 min Scan# 1862  
 Delta R.T. 0.04 min  
 Lab File: BG025289.D  
 Acq: 18 Dec 2016 00:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 45.1  | 25.0  | 37.6# |
| 127     | 89.2  | 30.7  | 46.1# |

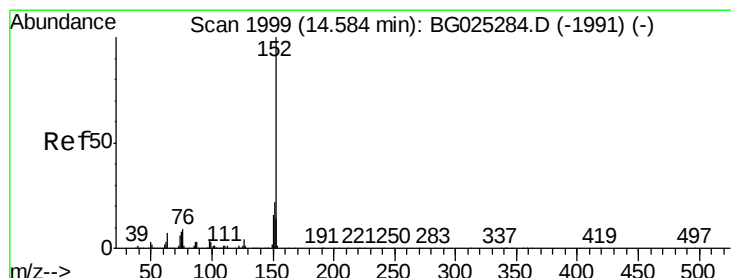
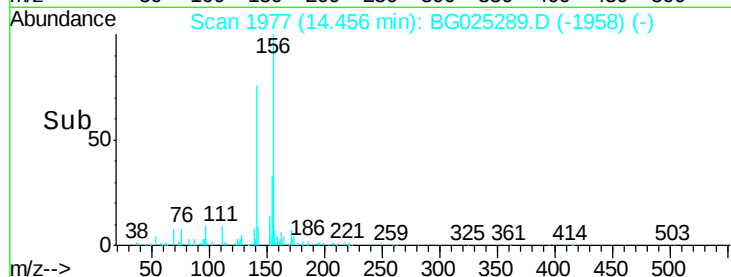
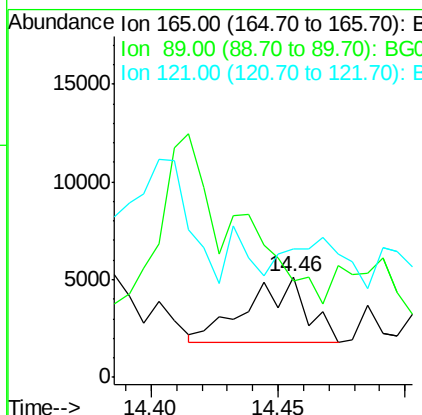
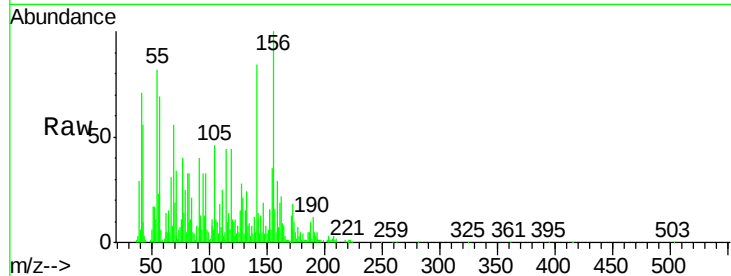




#45  
2,6-Dinitrotoluene  
Concen: 1.55 ng/ul  
RT: 14.46 min Scan# 1977  
Delta R.T. 0.01 min  
Lab File: BG025289.D  
Acq: 18 Dec 2016 00:44

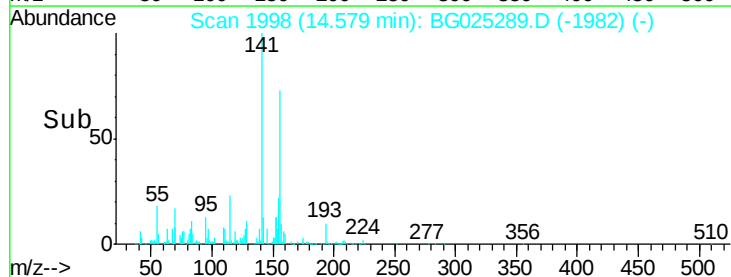
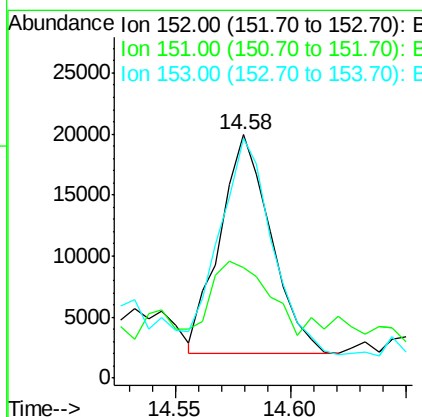
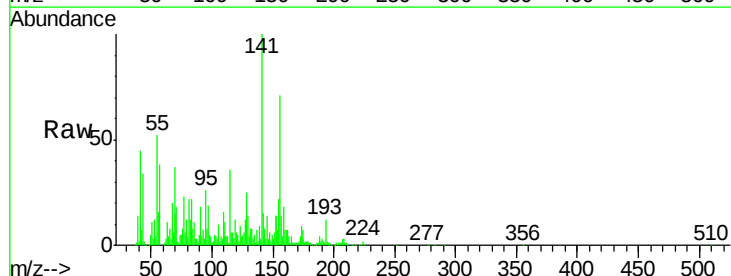
Instrument :  
BNA\_G  
ClientSampled :

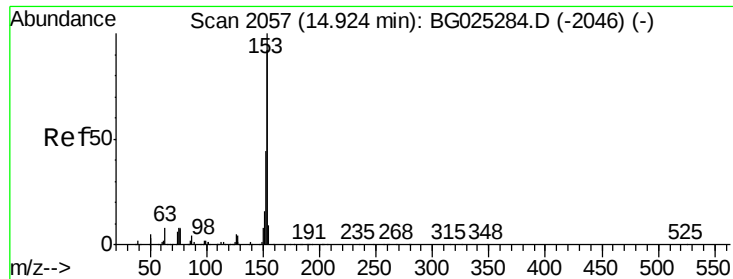
Tot Ion:165 Resp: 5290  
Ion Ratio Lower Upper  
165 100  
89 95.6 52.9 79.3#  
121 127.3 22.2 33.4#



#47  
Acenaphthylene  
Concen: 1.59 ng/ul  
RT: 14.58 min Scan# 1998  
Delta R.T. -0.00 min  
Lab File: BG025289.D  
Acq: 18 Dec 2016 00:44

Tgt Ion:152 Resp: 27323  
Ion Ratio Lower Upper  
152 100  
151 45.3 16.7 25.1#  
153 98.5 11.4 17.2#





#49

Acenaphthene

Concen: 6.56 ng/ul

RT: 14.93 min Scan# 2057

Delta R.T. 0.00 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

Instrument :

BNA\_G

ClientSampleId :

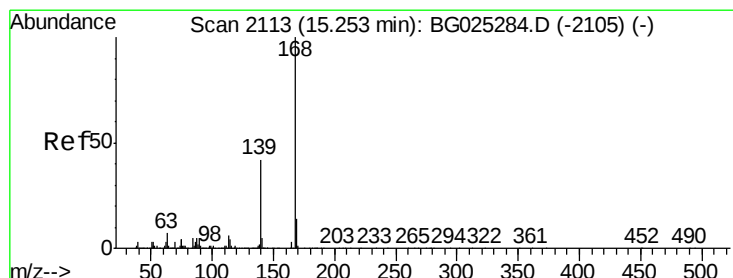
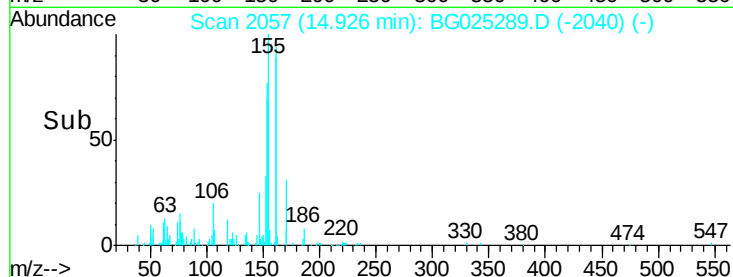
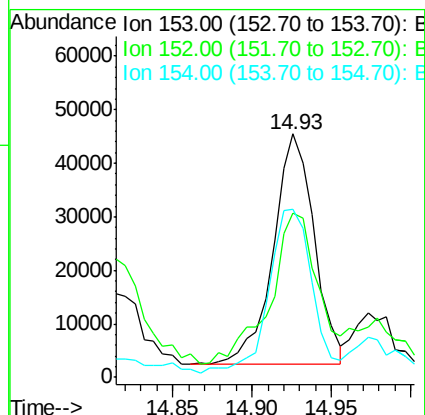
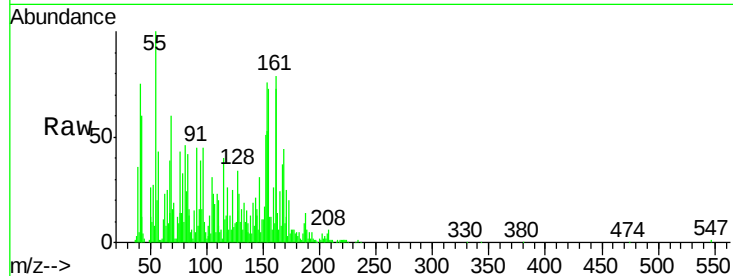
Tot Ion:153 Resp: 77233

Ion Ratio Lower Upper

153 100

152 67.6 36.5 54.7#

154 69.2 72.3 108.5#



#53

Dibenzofuran

Concen: 7.64 ng/ul

RT: 15.25 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BG025289.D

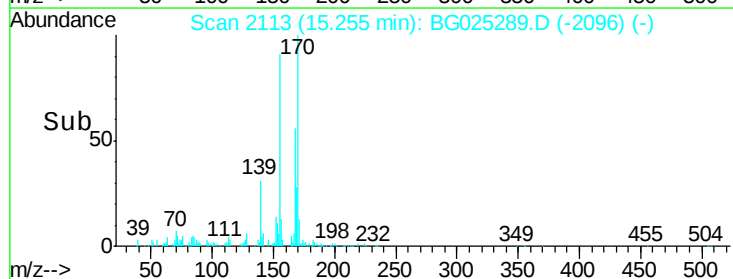
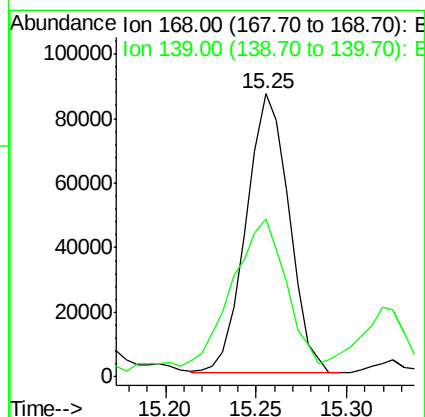
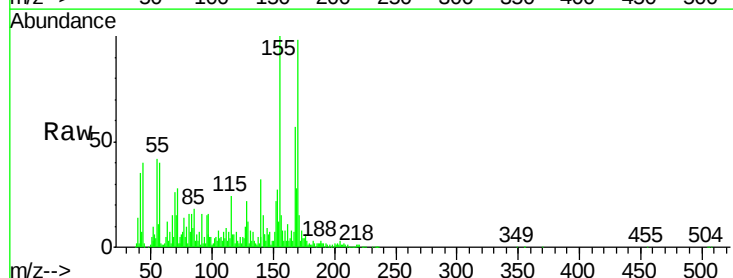
Acq: 18 Dec 2016 00:44

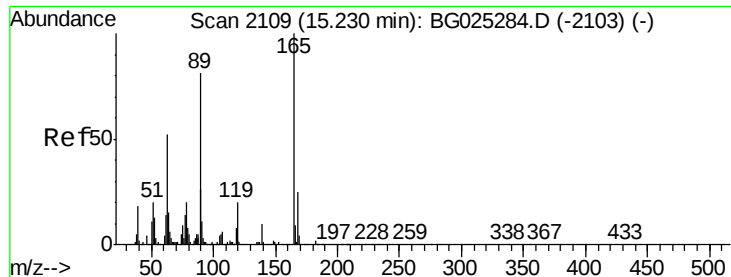
Tgt Ion:168 Resp: 142288

Ion Ratio Lower Upper

168 100

139 55.7 33.8 50.8#





#54

2,4-Dinitrotoluene

Concen: 5.55 ng/ul

RT: 15.24 min Scan# 2111

Delta R.T. 0.01 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

Instrument :

BNA\_G

ClientSampleId :

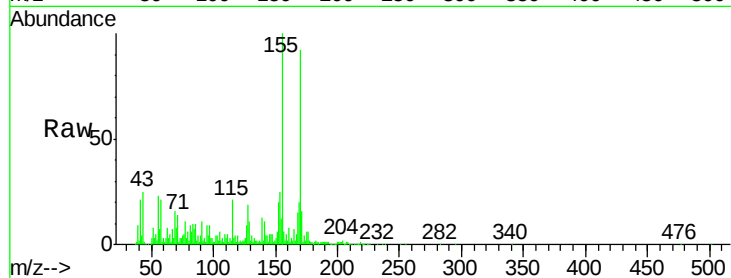
Tot Ion:165 Resp: 28470

Ion Ratio Lower Upper

165 100

63 121.0 46.8 70.2#

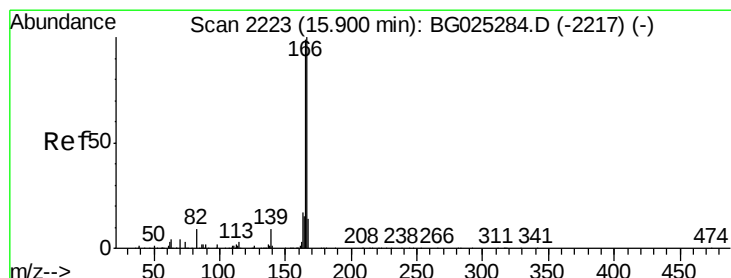
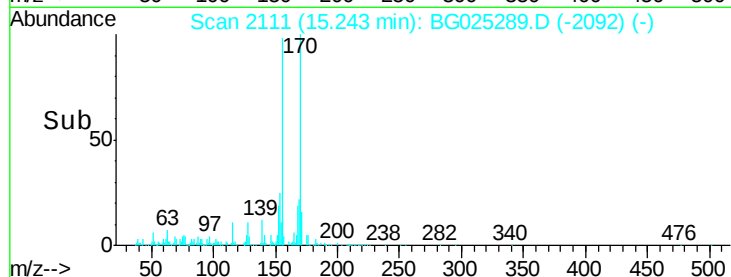
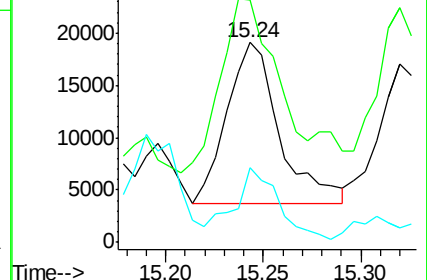
182 37.1 1.8 2.6#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG

Ion 182.00 (181.70 to 182.70): E



#58

Fluorene

Concen: 16.09 ng/ul

RT: 15.91 min Scan# 2224

Delta R.T. 0.01 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

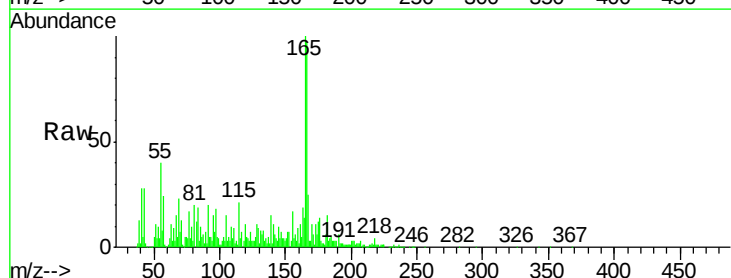
Tgt Ion:166 Resp: 243762

Ion Ratio Lower Upper

166 100

165 102.9 79.7 119.5

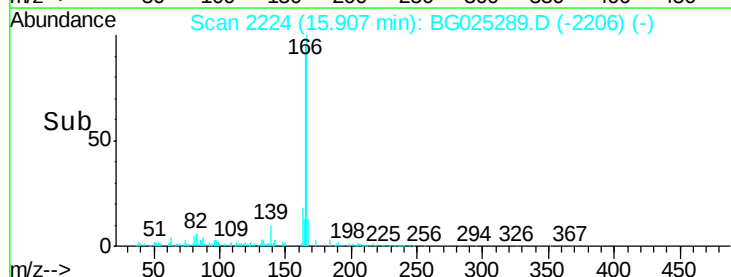
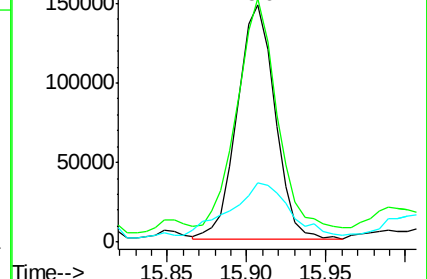
167 25.3 11.4 17.2#

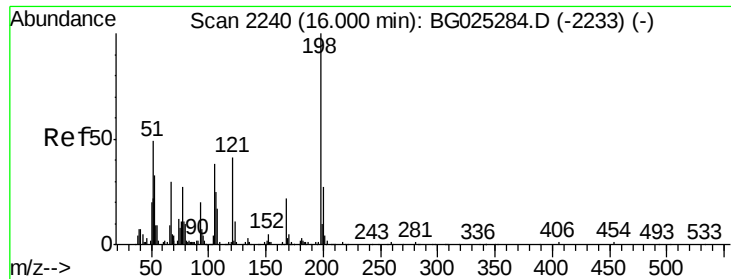


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

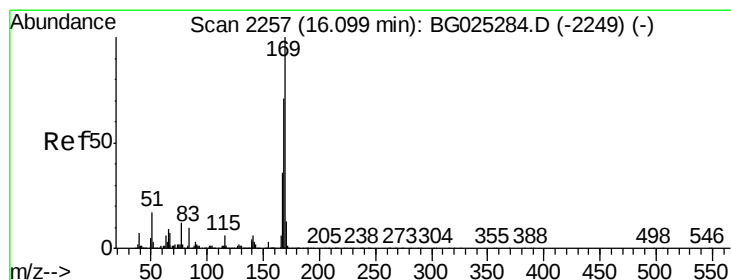
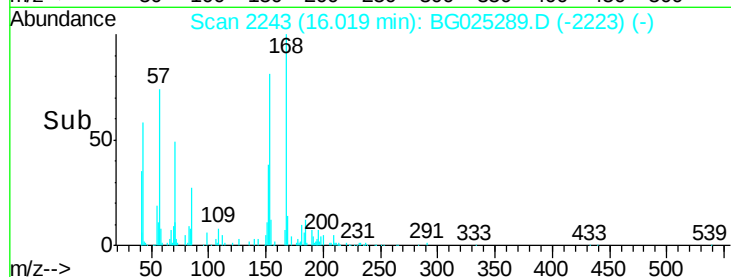
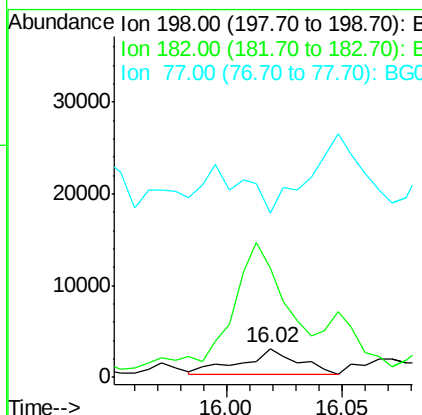
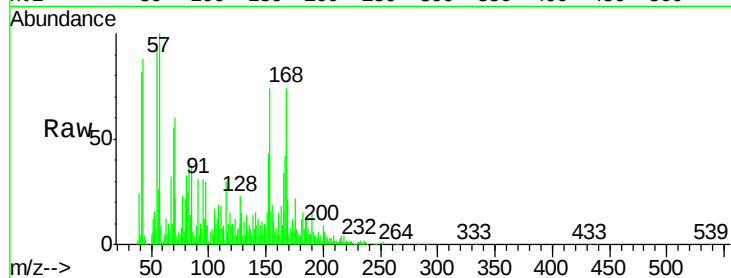




#63  
 4,6-Dinitro-2-methylphenol  
 Concen: 1.50 ng/ul  
 RT: 16.02 min Scan# 2243  
 Delta R.T. 0.02 min  
 Lab File: BG025289.D  
 Acq: 18 Dec 2016 00:44

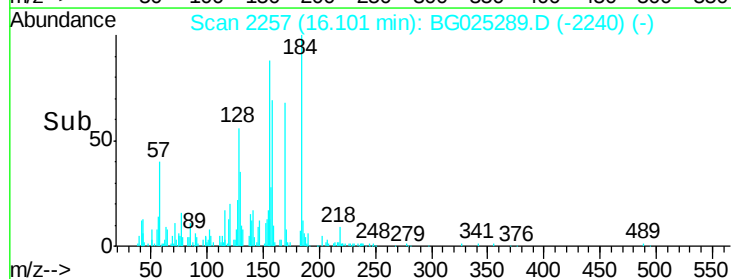
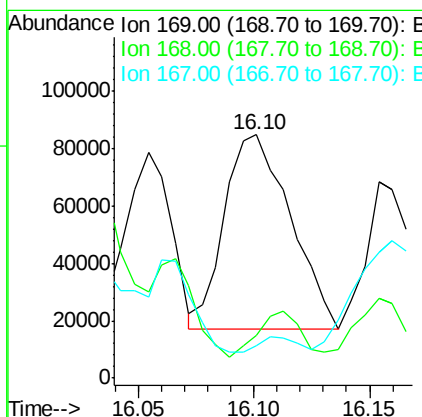
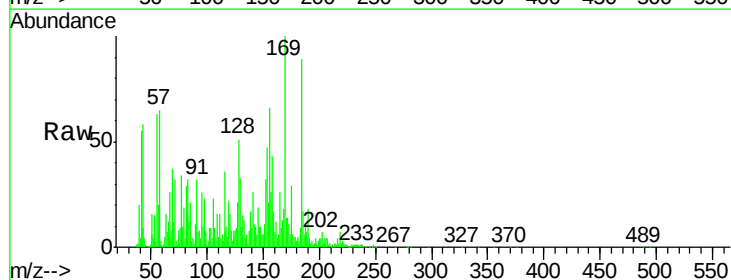
Instrument :  
 BNA\_G  
 ClientSampleId :

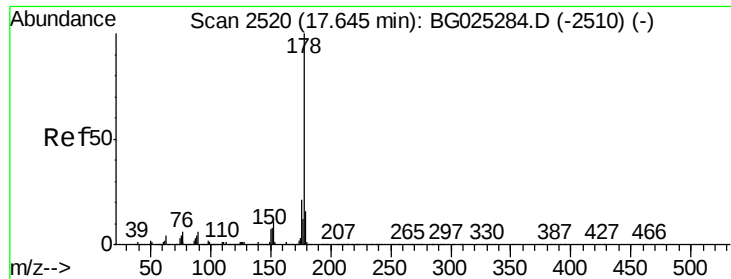
Tot Ion:198 Resp: 4720  
 Ion Ratio Lower Upper  
 198 100  
 182 377.7 5.8 6.4#  
 77 567.1 22.1 33.9#



#64  
 N-Nitrosodiphenylamine  
 Concen: 10.67 ng/ul  
 RT: 16.10 min Scan# 2257  
 Delta R.T. 0.00 min  
 Lab File: BG025289.D  
 Acq: 18 Dec 2016 00:44

Tgt Ion:169 Resp: 134523  
 Ion Ratio Lower Upper  
 169 100  
 168 17.7 59.1 88.7#  
 167 13.3 29.7 44.5#





#69

Phenanthrene

Concen: 20.27 ng/ul

RT: 17.65 min Scan# 2521

Delta R.T. 0.01 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

Instrument :

BNA\_G

ClientSampleId :

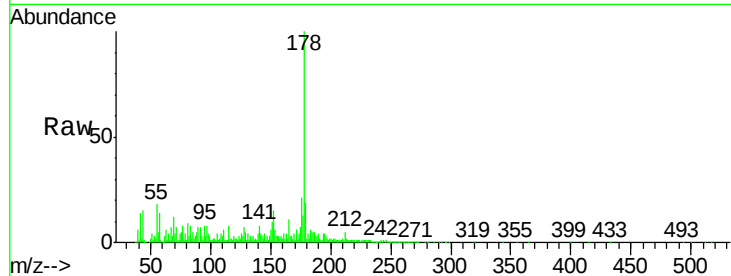
Tot Ion:178 Resp: 474001

Ion Ratio Lower Upper

178 100

179 19.2 12.4 18.6#

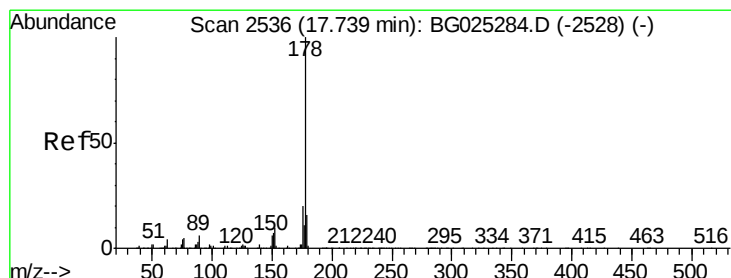
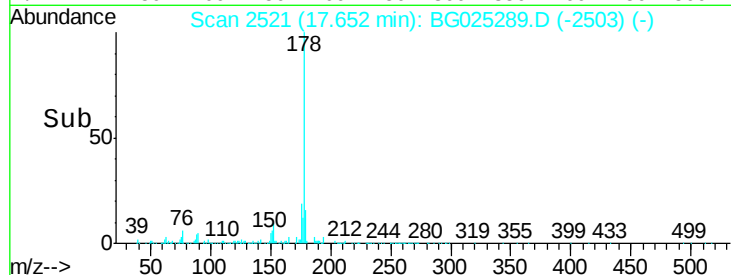
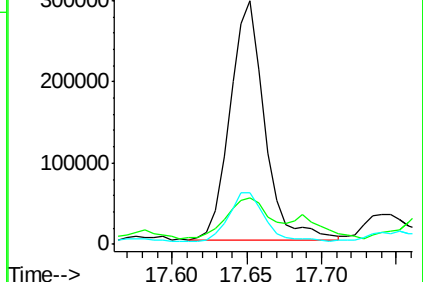
176 21.1 16.5 24.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 2.10 ng/ul

RT: 17.74 min Scan# 2536

Delta R.T. 0.00 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

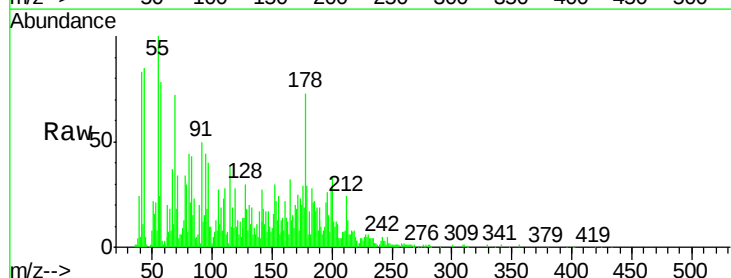
Tgt Ion:178 Resp: 50450

Ion Ratio Lower Upper

178 100

179 40.1 12.6 19.0#

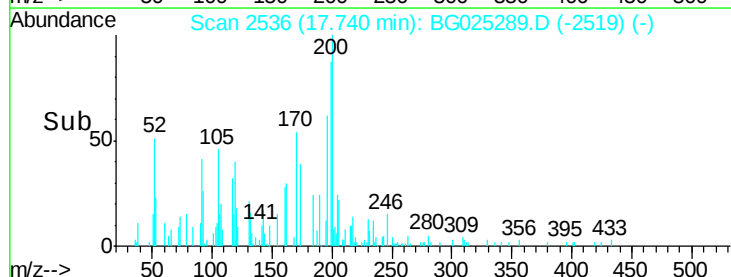
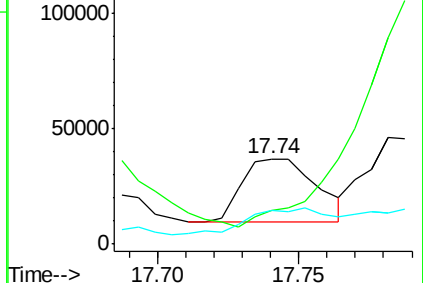
176 39.2 15.9 23.9#

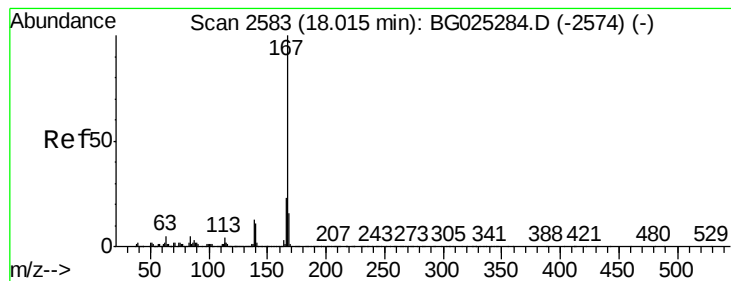


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 1.60 ng/ul

RT: 18.02 min Scan# 2583

Delta R.T. 0.00 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

Instrument :

BNA\_G

ClientSampleId :

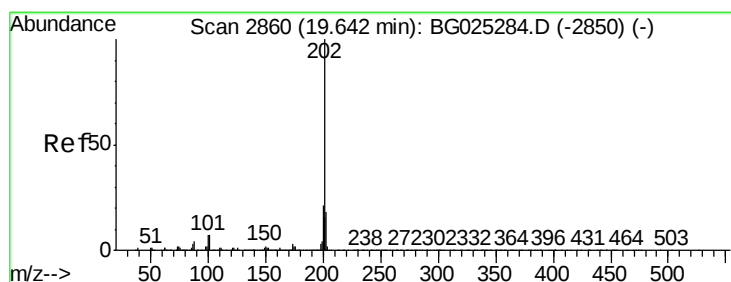
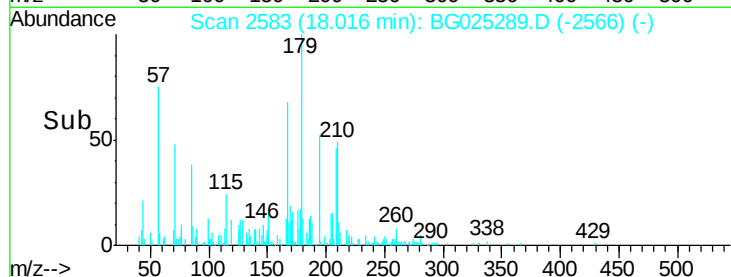
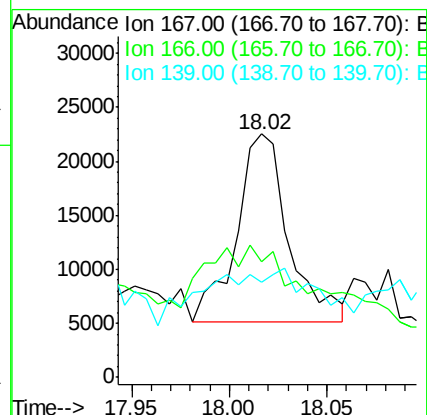
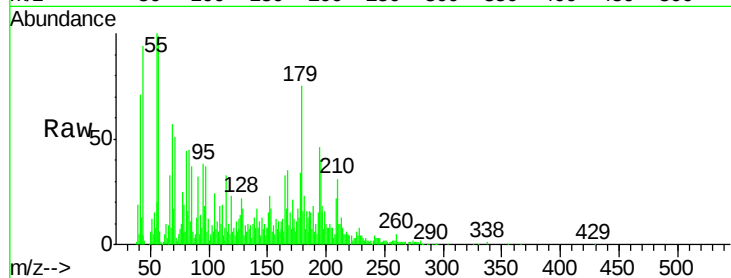
Tot Ion:167 Resp: 32079

Ion Ratio Lower Upper

167 100

166 47.7 17.9 26.9#

139 38.9 10.5 15.7#



#74

Fluoranthene

Concen: 2.89 ng/ul

RT: 19.64 min Scan# 2860

Delta R.T. 0.00 min

Lab File: BG025289.D

Acq: 18 Dec 2016 00:44

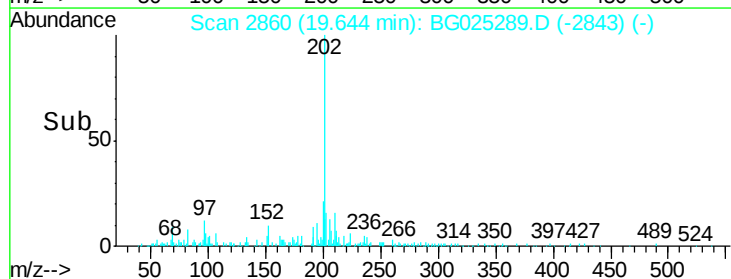
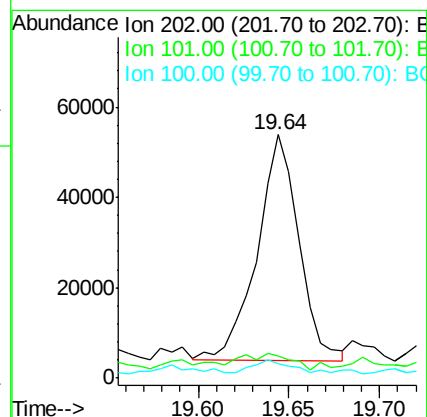
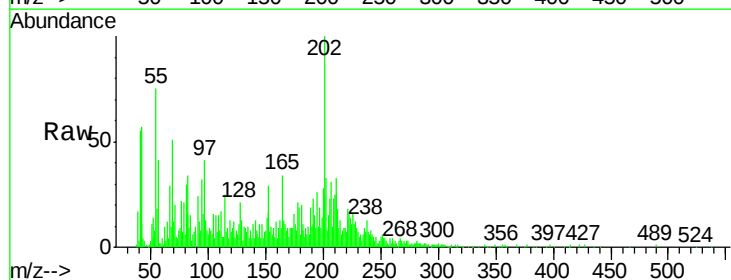
Tgt Ion:202 Resp: 80443

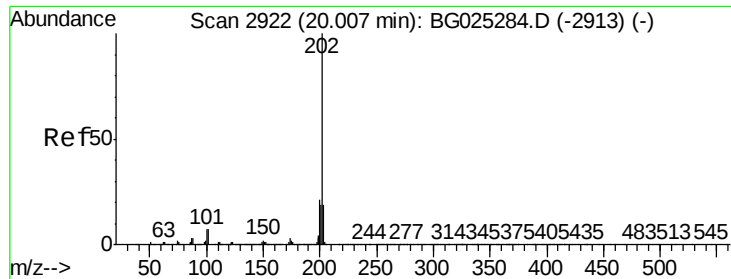
Ion Ratio Lower Upper

202 100

101 9.3 6.2 9.2#

100 5.9 5.2 7.8





#77  
 Pvrene  
 Concen: 3.84 ng/ul  
 RT: 20.01 min Scan# 2922  
 Delta R.T. 0.00 min  
 Lab File: BG025289.D  
 Acq: 18 Dec 2016 00:44

Instrument :  
 BNA\_G  
 ClientSampleId :

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 116424 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 9.1   | 6.9   | 10.3   |
| 100       | 7.5   | 6.6   | 10.0   |

