

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052215\  
 Data File : BG017261.D  
 Acq On : 23 May 2015 2:10  
 Operator : TP/IZ  
 Sample : G2353-06MS  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 VE4-11MS

Quant Time: May 25 08:14:11 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG051315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 25 08:11:45 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.68  | 152  | 35251    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.47 | 136  | 149819   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 14.34 | 164  | 86818    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.08 | 188  | 184190   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.27 | 240  | 204220   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 23.52 | 264  | 197537   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |        |        |    |      |
|--------------------------|-------|-----|--------|--------|----|------|
| 5) 2-Fluorophenol        | 5.28  | 112 | 144904 | 72.93  | ng | 0.00 |
| 7) Phenol-d6             | 6.89  | 99  | 123618 | 44.34  | ng | 0.00 |
| 23) Nitrobenzene-d5      | 8.84  | 82  | 276515 | 86.17  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 15.83 | 330 | 152684 | 145.48 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 12.95 | 172 | 553662 | 93.58  | ng | 0.00 |
| 78) Terphenyl-d14        | 19.71 | 244 | 592017 | 60.41  | ng | 0.00 |

## Target Compounds

|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.16  | 88  | 12983  | 16.56  | ng | 96     |
| 3) Pyridine                    | 3.56  | 79  | 19563  | 8.25   | ng | 94     |
| 4) n-Nitrosodimethylamine      | 3.47  | 42  | 27371  | 15.21  | ng | # 93   |
| 6) Aniline                     | 7.02  | 93  | 23202  | 6.01   | ng | # 91   |
| 8) 2-Chlorophenol              | 7.26  | 128 | 97621  | 41.07  | ng | 97     |
| 9) Benzaldehyde                | 6.82  | 77  | 19547  | 8.59   | ng | 89     |
| 10) Phenol                     | 6.92  | 94  | 48225  | 16.31  | ng | 96     |
| 11) bis(2-Chloroethyl)ether    | 7.12  | 93  | 107086 | 48.30  | ng | 99     |
| 12) 1,3-Dichlorobenzene        | 7.57  | 146 | 112498 | 42.38  | ng | 99     |
| 13) 1,4-Dichlorobenzene        | 7.72  | 146 | 114887 | 42.88  | ng | 94     |
| 14) 1,2-Dichlorobenzene        | 8.03  | 146 | 113419 | 44.32  | ng | 96     |
| 15) Benzyl Alcohol             | 7.93  | 79  | 67178  | 24.80  | ng | 94     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.22  | 45  | 176650 | 49.14  | ng | 99     |
| 17) 2-Methylphenol             | 8.15  | 107 | 69981  | 32.64  | ng | 92     |
| 18) Hexachloroethane           | 8.76  | 117 | 48194  | 43.06  | ng | 94     |
| 19) n-Nitroso-di-n-propylamine | 8.49  | 70  | 100679 | 41.44  | ng | 98     |
| 20) 3+4-Methylphenols          | 8.48  | 107 | 86487  | 29.03  | ng | 93     |
| 22) Acetophenone               | 8.51  | 105 | 175341 | 48.22  | ng | # 96   |
| 24) Nitrobenzene               | 8.89  | 77  | 149562 | 47.63  | ng | 97     |
| 25) Isophorone                 | 9.41  | 82  | 262921 | 44.45  | ng | 98     |
| 26) 2-Nitrophenol              | 9.60  | 139 | 66999  | 47.74  | ng | 95     |
| 27) 2,4-Dimethylphenol         | 9.67  | 122 | 99250  | 42.96  | ng | 98     |
| 28) bis(2-Chloroethoxy)methane | 9.90  | 93  | 137463 | 47.73  | ng | 98     |
| 29) 2,4-Dichlorophenol         | 10.14 | 162 | 104294 | 47.86  | ng | 97     |
| 30) 1,2,4-Trichlorobenzene     | 10.34 | 180 | 115810 | 46.84  | ng | 94     |
| 31) Naphthalene                | 10.53 | 128 | 343974 | 46.92  | ng | 98     |
| 32) Benzoic acid               | 9.80  | 122 | 21431  | 13.69  | ng | # 77   |
| 33) 4-Chloroaniline            | 10.64 | 127 | 14238  | 4.11   | ng | # 92   |
| 34) Hexachlorobutadiene        | 10.81 | 225 | 70468  | 45.02  | ng | 96     |
| 35) Caprolactam                | 11.43 | 113 | 6370   | 5.81   | ng | 95     |
| 36) 4-Chloro-3-methylphenol    | 11.79 | 107 | 113763 | 41.32  | ng | 97     |
| 37) 2-Methylnaphthalene        | 12.14 | 142 | 256844 | 44.17  | ng | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.52 | 216 | 127052 | 51.72  | ng | 99     |
| 40) Hexachlorocyclopentadiene  | 12.49 | 237 | 159400 | 106.39 | ng | 94     |

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Instrument :  
 BNA\_G  
 ClientSampleId :  
 VE4-11MS

Quant Time: May 25 08:14:11 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG051315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 25 08:11:45 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 12.77 | 196  | 88335    | 50.70  | ng    | 99       |
| 43) 2,4,5-Trichlorophenol      | 12.86 | 196  | 95607    | 53.26  | ng    | 96       |
| 45) 1,1'-Biphenyl              | 13.16 | 154  | 318911   | 51.00  | ng    | 99       |
| 46) 2-Chloronaphthalene        | 13.20 | 162  | 254297   | 51.36  | ng    | 97       |
| 47) 2-Nitroaniline             | 13.42 | 65   | 91694    | 47.60  | ng    | 99       |
| 48) Acenaphthylene             | 14.06 | 152  | 414241   | 48.85  | ng    | 100      |
| 49) Dimethylphthalate          | 13.80 | 163  | 326483   | 48.09  | ng    | 100      |
| 50) 2,6-Dinitrotoluene         | 13.92 | 165  | 75737    | 50.35  | ng    | 96       |
| 51) Acenaphthene               | 14.40 | 154  | 249844   | 49.88  | ng    | 98       |
| 52) 3-Nitroaniline             | 14.25 | 138  | 13857    | 8.30   | ng    | # 98     |
| 53) 2,4-Dinitrophenol          | 14.46 | 184  | 95060    | 108.84 | ng    | 97       |
| 54) Dibenzofuran               | 14.74 | 168  | 376864   | 50.61  | ng    | 98       |
| 55) 4-Nitrophenol              | 14.61 | 139  | 53495    | 39.81  | ng    | 89       |
| 56) 2,4-Dinitrotoluene         | 14.71 | 165  | 103503   | 49.33  | ng    | 97       |
| 57) Fluorene                   | 15.38 | 166  | 319984   | 48.55  | ng    | 97       |
| 58) 2,3,4,6-Tetrachlorophenol  | 14.97 | 232  | 86328    | 52.40  | ng    | 96       |
| 59) Diethylphthalate           | 15.17 | 149  | 333329   | 45.71  | ng    | 99       |
| 60) 4-Chlorophenyl-phenylether | 15.38 | 204  | 167993   | 49.62  | ng    | 96       |
| 61) 4-Nitroaniline             | 15.42 | 138  | 64237    | 34.50  | ng    | 97       |
| 62) Azobenzene                 | 15.67 | 77   | 342626   | 49.18  | ng    | 95       |
| 64) 4,6-Dinitro-2-methylphenol | 15.47 | 198  | 64297    | 50.93  | ng    | 97       |
| 65) n-Nitrosodiphenylamine     | 15.60 | 169  | 281614   | 49.80  | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 16.28 | 248  | 98605    | 49.09  | ng    | 95       |
| 67) Hexachlorobenzene          | 16.39 | 284  | 101598   | 47.93  | ng    | 97       |
| 68) Atrazine                   | 16.56 | 200  | 82344    | 39.81  | ng    | 98       |
| 69) Pentachlorophenol          | 16.74 | 266  | 137002   | 103.53 | ng    | 94       |
| 70) Phenanthrene               | 17.12 | 178  | 468114   | 49.29  | ng    | 99       |
| 71) Anthracene                 | 17.22 | 178  | 473665   | 49.21  | ng    | 97       |
| 72) Carbazole                  | 17.49 | 167  | 445979   | 50.42  | ng    | 98       |
| 73) Di-n-butylphthalate        | 18.06 | 149  | 574860   | 48.57  | ng    | 98       |
| 74) Fluoranthene               | 19.14 | 202  | 540300   | 47.37  | ng    | 97       |
| 77) Pyrene                     | 19.51 | 202  | 565324   | 45.12  | ng    | 100      |
| 79) Butylbenzylphthalate       | 20.41 | 149  | 269587   | 47.32  | ng    | 97       |
| 80) Benzo(a)anthracene         | 21.25 | 228  | 565357   | 48.31  | ng    | 99       |
| 82) Chrysene                   | 21.31 | 228  | 529275   | 48.55  | ng    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 21.18 | 149  | 384261   | 47.46  | ng    | 99       |
| 84) Di-n-octyl phthalate       | 22.06 | 149  | 655149   | 48.60  | ng    | 100      |
| 85) Indeno(1,2,3-cd)pyrene     | 25.83 | 276  | 623121   | 47.77  | ng    | 99       |
| 87) Benzo(b)fluoranthene       | 22.85 | 252  | 552193   | 47.95  | ng    | # 98     |
| 88) Benzo(k)fluoranthene       | 22.89 | 252  | 541853   | 49.56  | ng    | 99       |
| 89) Benzo(a)pyrene             | 23.43 | 252  | 528293   | 49.96  | ng    | 98       |
| 90) Dibenzo(a,h)anthracene     | 25.84 | 278  | 525458   | 48.40  | ng    | 99       |
| 91) Benzo(g,h,i)perylene       | 26.54 | 276  | 499962   | 48.93  | ng    | 95       |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.68 min Scan# 850

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

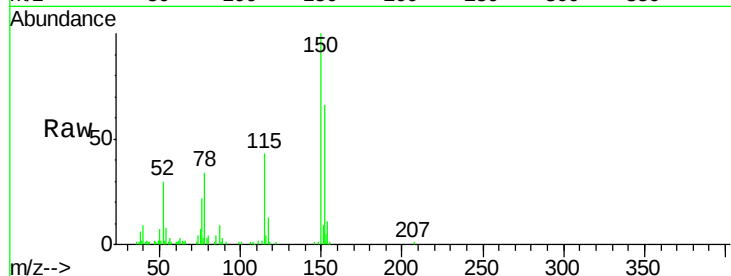
Tgt Ion:152 Resp: 35251

Ion Ratio Lower Upper

152 100

150 152.1 120.8 181.2

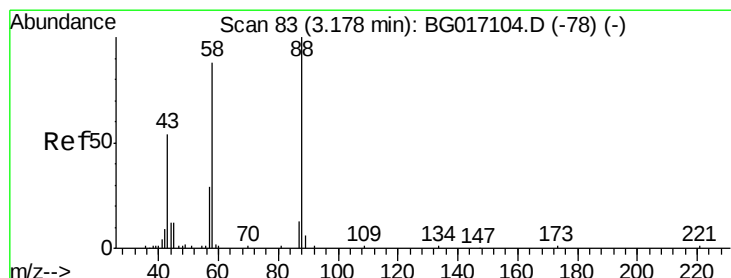
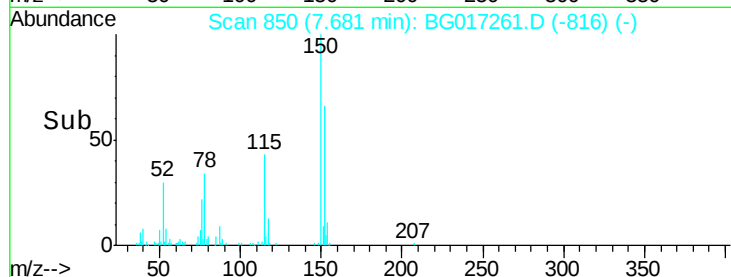
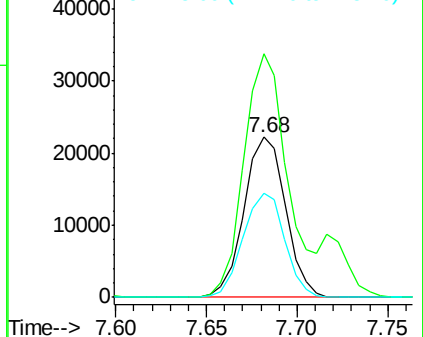
115 65.3 49.4 74.2



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: 16.56 ng

RT: 3.16 min Scan# 80

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

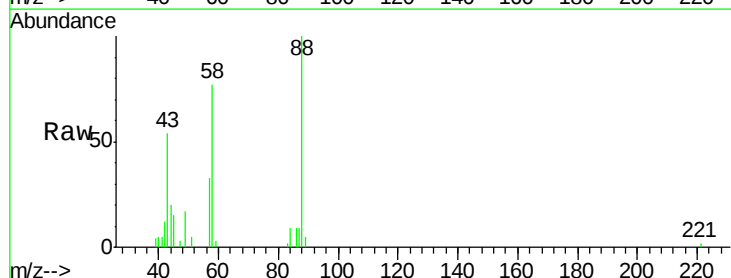
Tgt Ion: 88 Resp: 12983

Ion Ratio Lower Upper

88 100

58 86.9 68.6 103.0

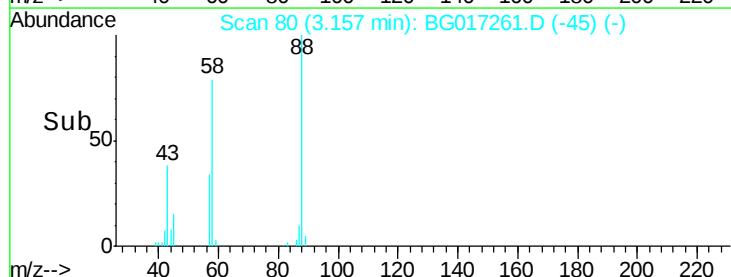
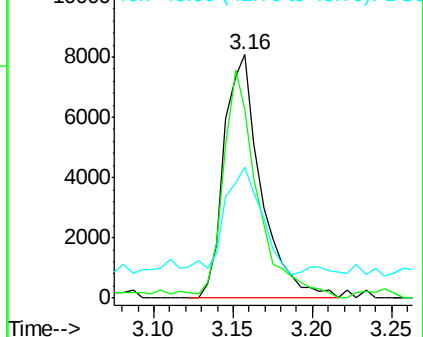
43 44.3 40.3 60.5



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: 8.25 ng

RT: 3.56 min Scan# 148

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

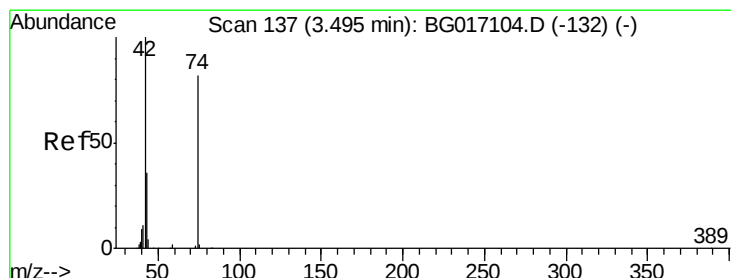
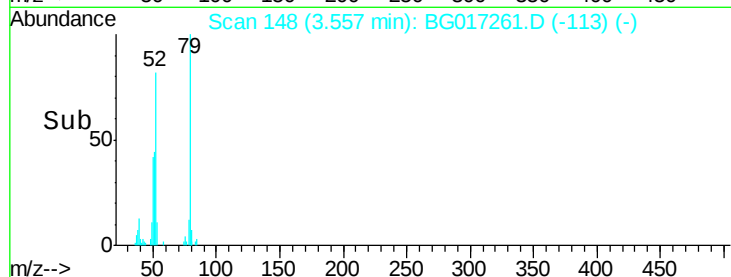
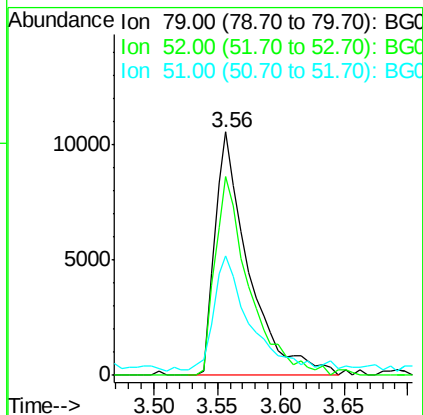
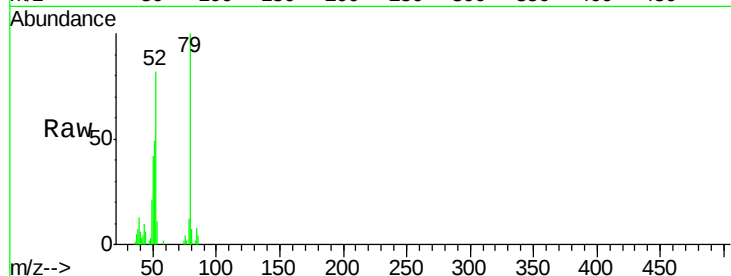
Tgt Ion: 79 Resp: 19563

Ion Ratio Lower Upper

79 100

52 81.9 72.2 108.2

51 49.3 40.6 60.8



#4

n-Nitrosodimethylamine

Concen: 15.21 ng

RT: 3.47 min Scan# 134

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

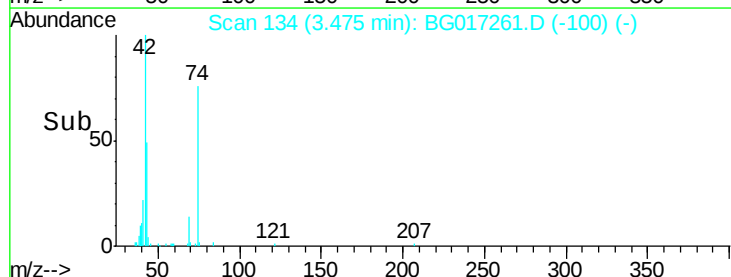
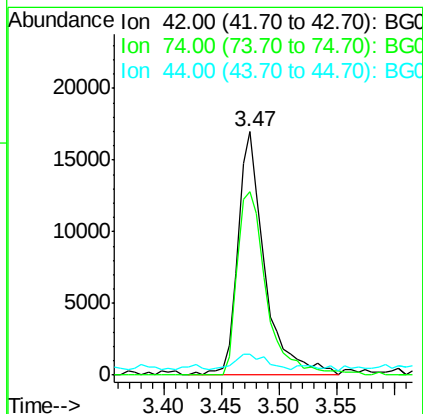
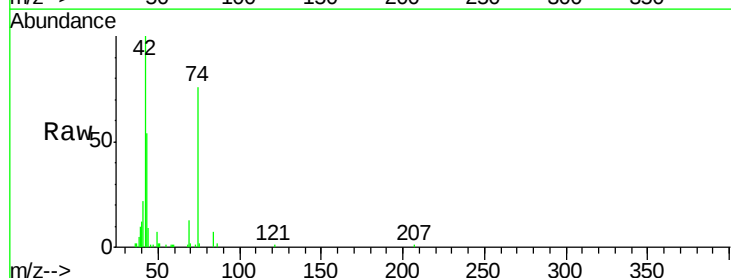
Tgt Ion: 42 Resp: 27371

Ion Ratio Lower Upper

42 100

74 75.6 65.2 97.8

44 8.5 3.2 4.8#





#5

2-Fluorophenol

Concen: 72.93 ng

RT: 5.28 min Scan# 442

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

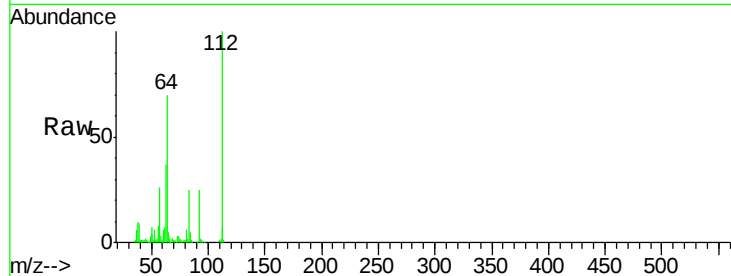
Tgt Ion: 112 Resp: 144904

Ion Ratio Lower Upper

112 100

64 69.6 48.1 72.1

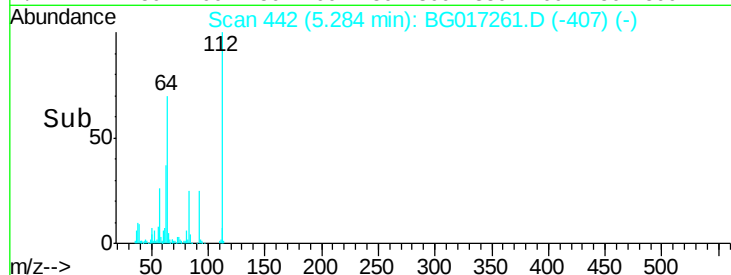
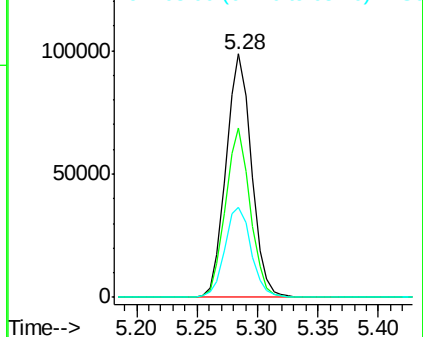
63 37.0 29.8 44.8



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#6

Aniline

Concen: 6.01 ng

RT: 7.02 min Scan# 737

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

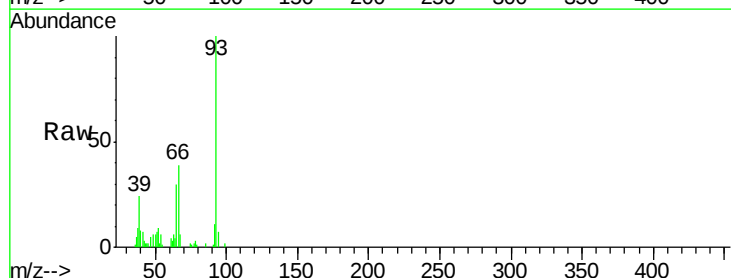
Tgt Ion: 93 Resp: 23202

Ion Ratio Lower Upper

93 100

66 39.5 35.8 53.8

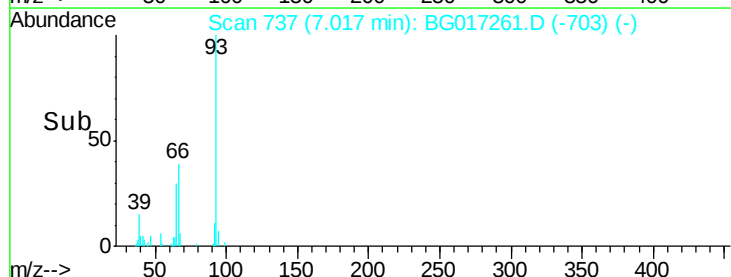
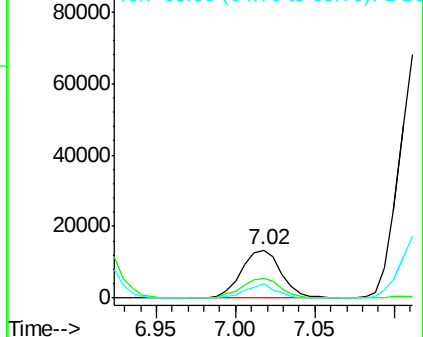
65 29.8 19.2 28.8#

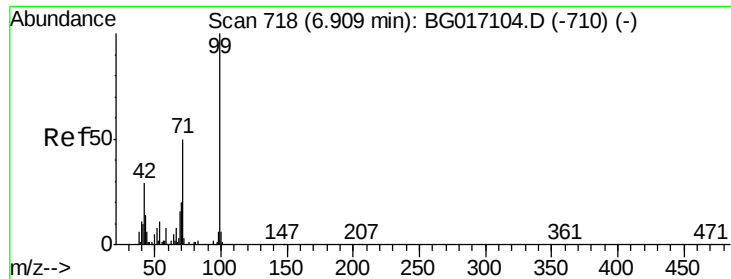


Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

Ion 65.00 (64.70 to 65.70): BGC





#7

Phenol-d6

Concen: 44.34 ng

RT: 6.89 min Scan# 715

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampled :

VE4-11MS

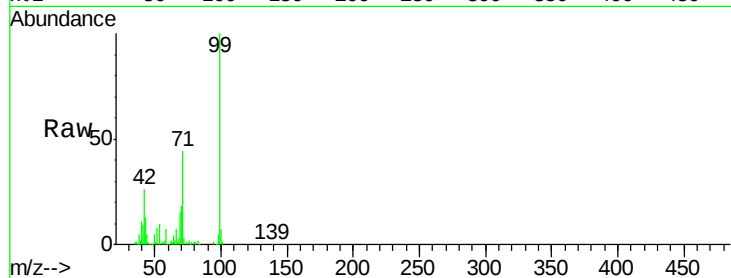
Tgt Ion: 99 Resp: 123618

Ion Ratio Lower Upper

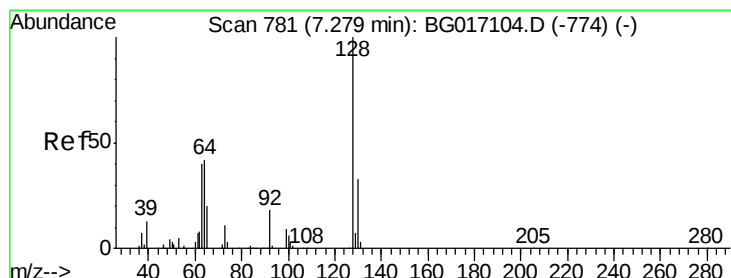
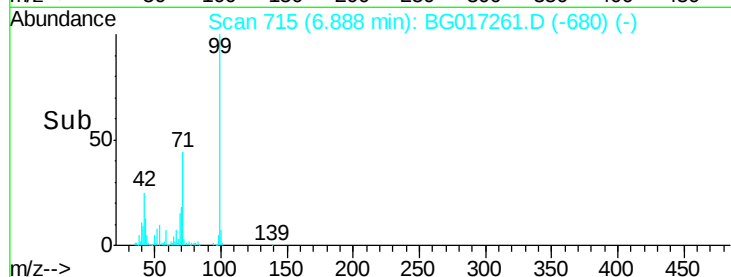
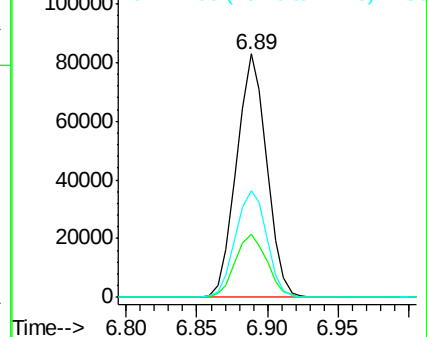
99 100

42 25.8 23.5 35.3

71 44.1 39.8 59.8



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



#8

2-Chlorophenol

Concen: 41.07 ng

RT: 7.26 min Scan# 778

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

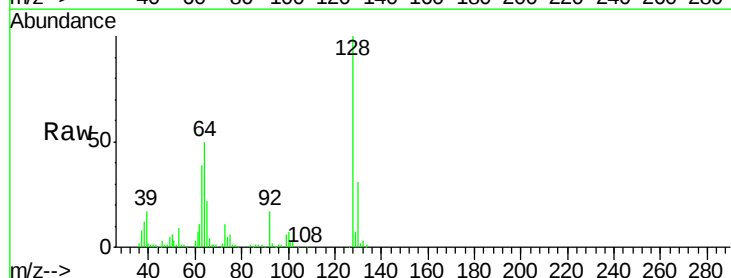
Tgt Ion: 128 Resp: 97621

Ion Ratio Lower Upper

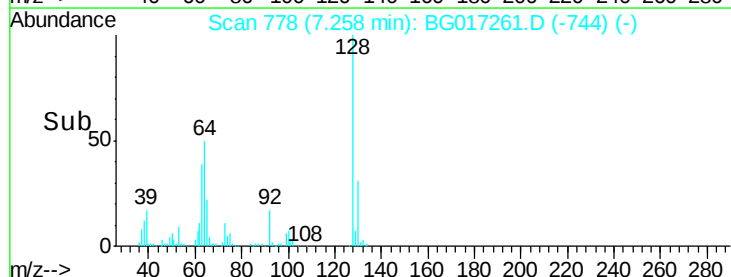
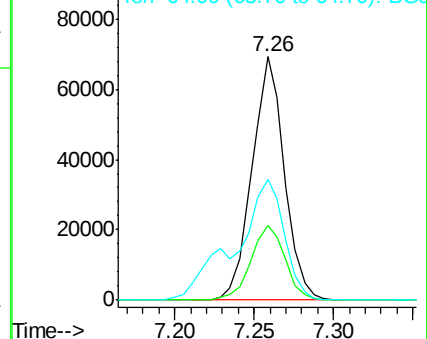
128 100

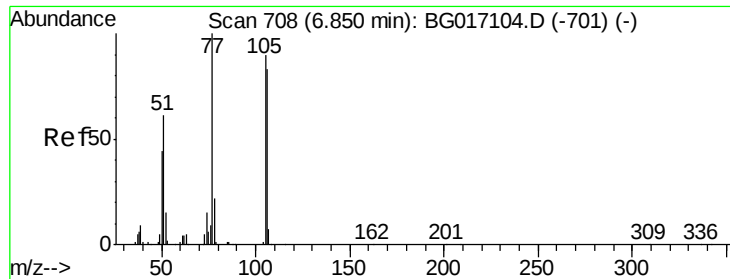
130 30.7 13.3 53.3

64 49.8 30.9 70.9



Abundance Ion 128.00 (127.70 to 128.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC  
Ion 64.00 (63.70 to 64.70): BGC





#9

Benzaldehyde

Concen: 8.59 ng

RT: 6.82 min Scan# 704

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

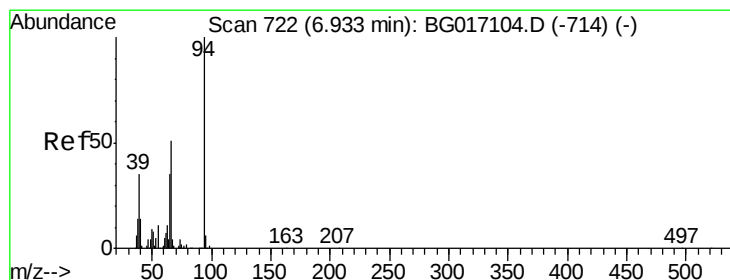
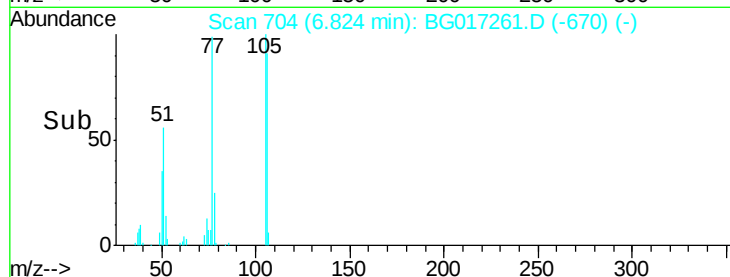
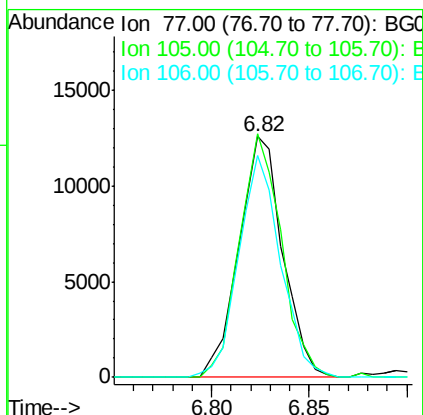
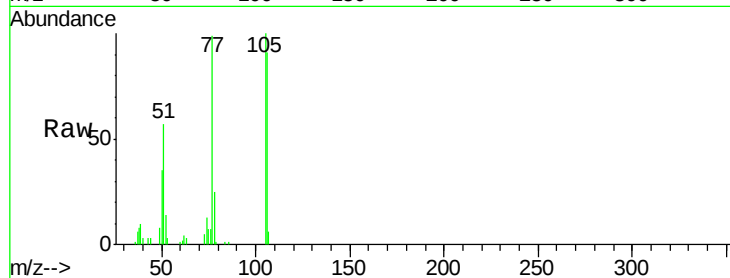
Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 19547 |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 105      | 101.2 | 69.5  | 109.5 |
| 106      | 92.5  | 63.4  | 103.4 |



#10

Phenol

Concen: 16.31 ng

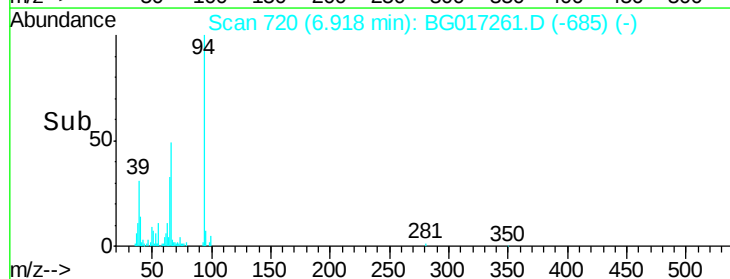
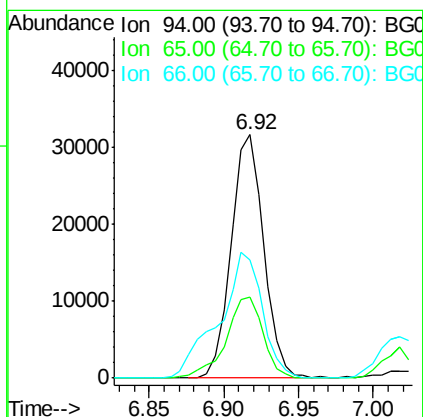
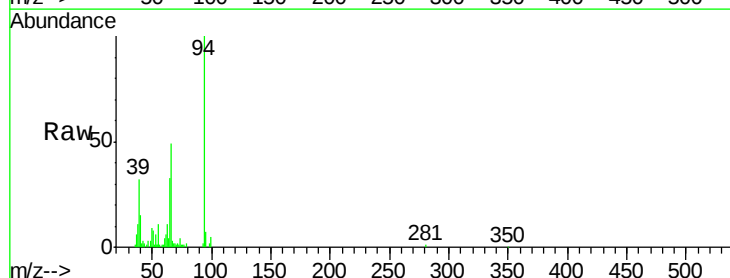
RT: 6.92 min Scan# 720

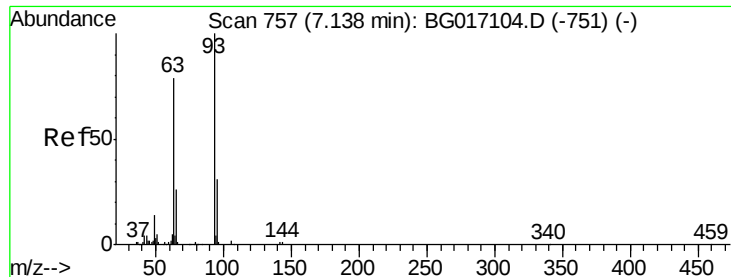
Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 48225 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 33.1  | 15.0  | 55.0  |
| 66       | 48.7  | 32.1  | 72.1  |

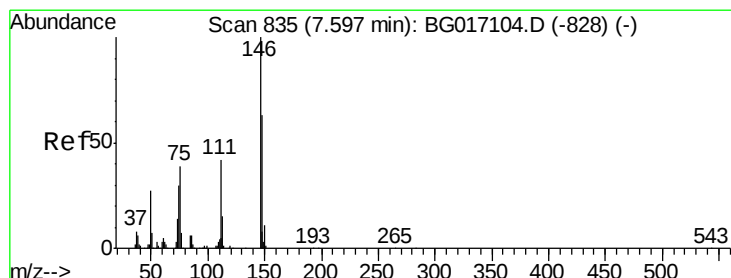
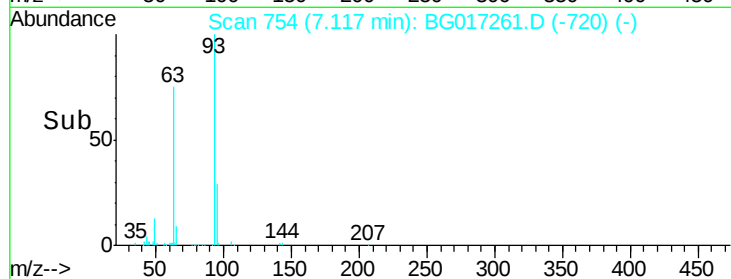
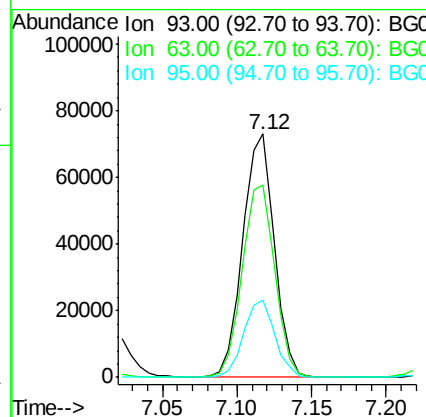
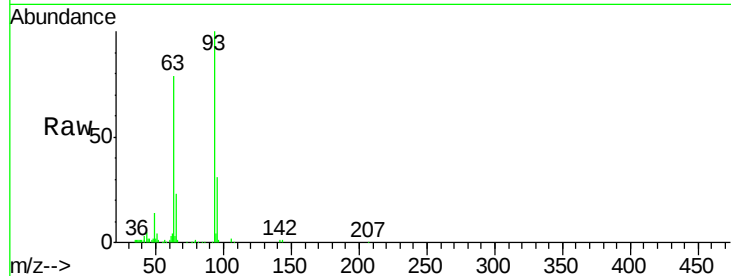




#11  
 bis(2-Chloroethyl)ether  
 Concen: 48.30 ng  
 RT: 7.12 min Scan# 754  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

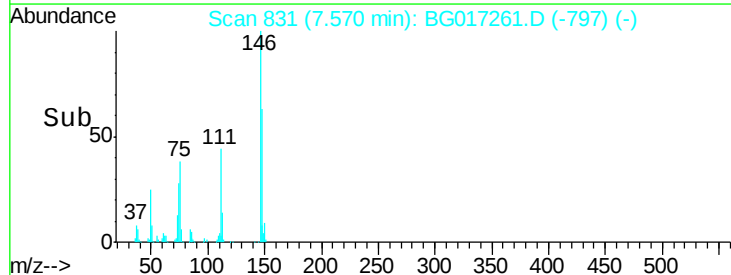
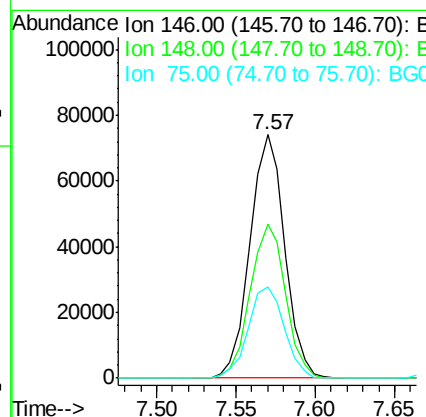
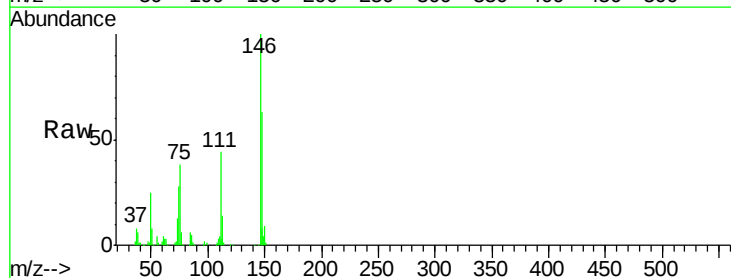
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VE4-11MS

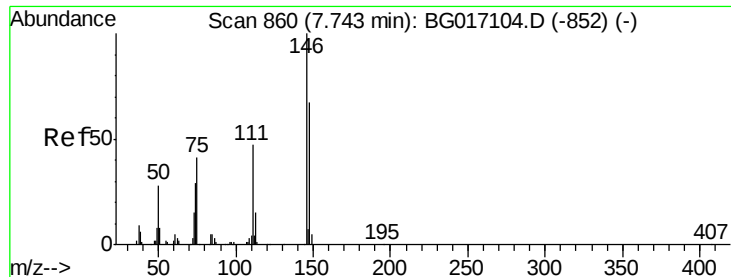
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 79.0  | 58.5  | 98.5  |
| 95      | 31.5  | 11.0  | 51.0  |



#12  
 1,3-Dichlorobenzene  
 Concen: 42.38 ng  
 RT: 7.57 min Scan# 831  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 63.3  | 50.6  | 75.8  |
| 75      | 37.7  | 31.4  | 47.2  |

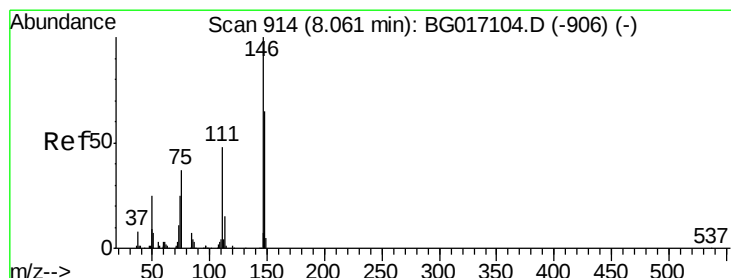
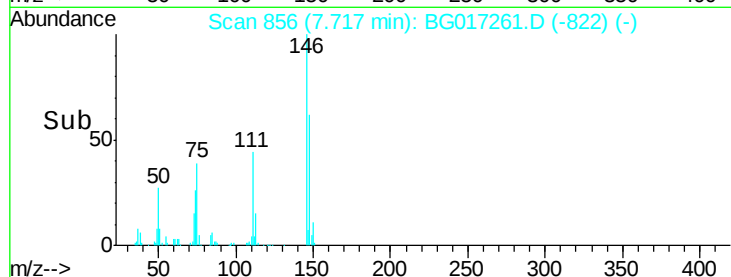
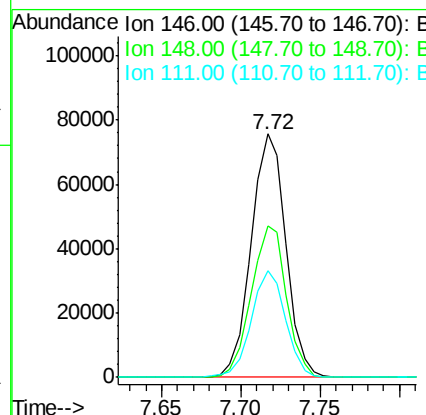
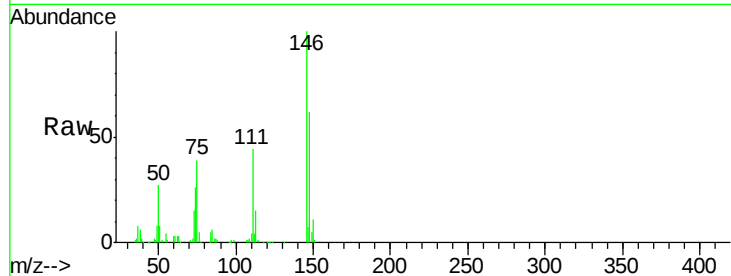




#13  
 1,4-Dichlorobenzene  
 Concen: 42.88 ng  
 RT: 7.72 min Scan# 856  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

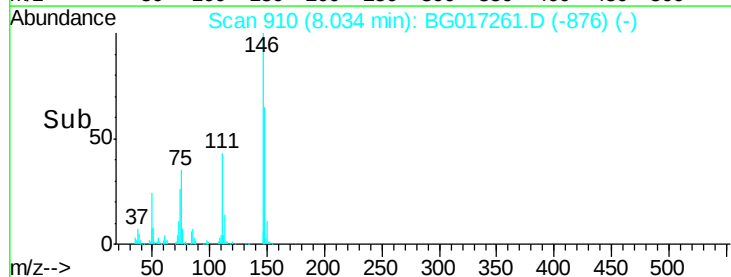
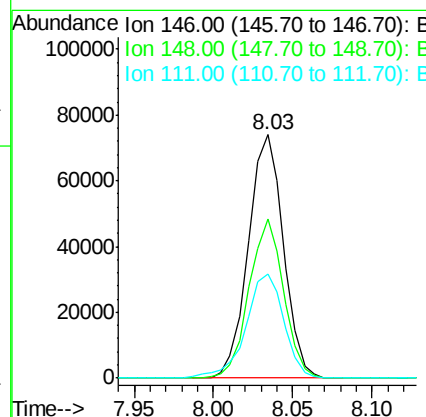
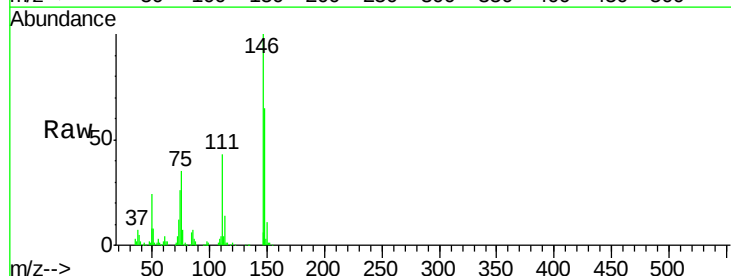
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VE4-11MS

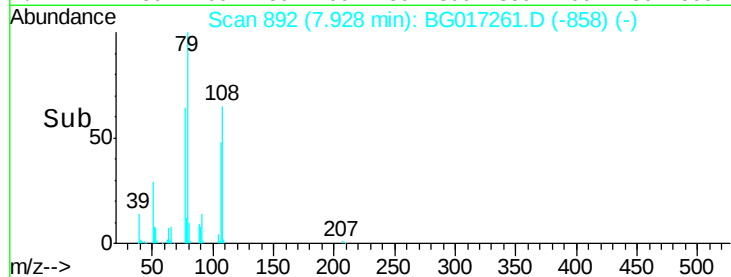
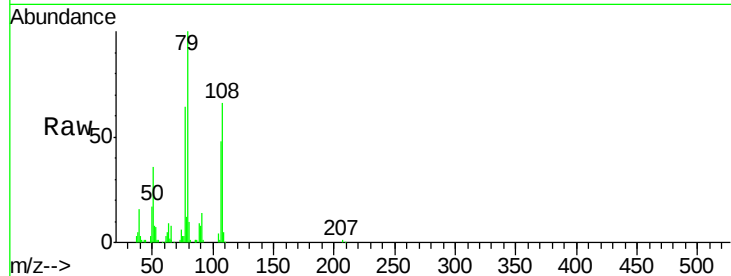
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 62.4  | 53.9  | 80.9  |
| 111     | 43.9  | 37.9  | 56.9  |



#14  
 1,2-Dichlorobenzene  
 Concen: 44.32 ng  
 RT: 8.03 min Scan# 910  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 65.2  | 52.3  | 78.5  |
| 111     | 42.7  | 39.0  | 58.4  |





#15

Benzyl Alcohol

Concen: 24.80 ng

RT: 7.93 min Scan# 892

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

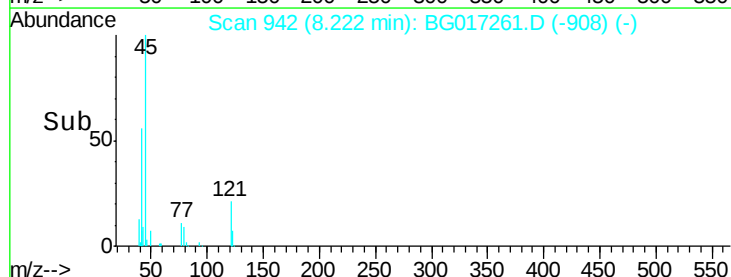
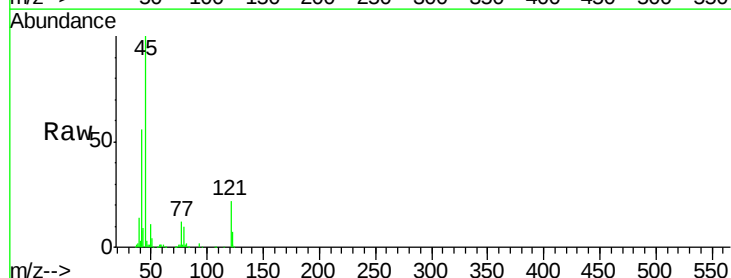
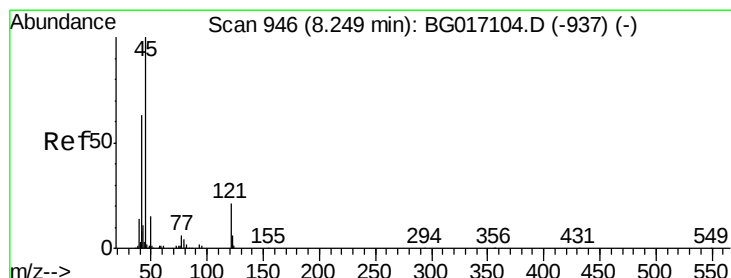
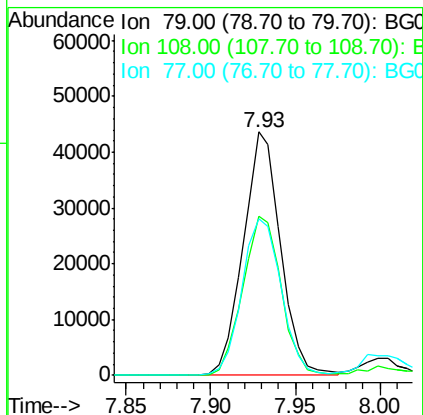
Tgt Ion: 79 Resp: 67178

Ion Ratio Lower Upper

79 100

108 65.5 55.8 83.6

77 64.1 55.4 83.0



#16

2,2'-oxybis(1-Chloropropane)

Concen: 49.14 ng

RT: 8.22 min Scan# 942

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

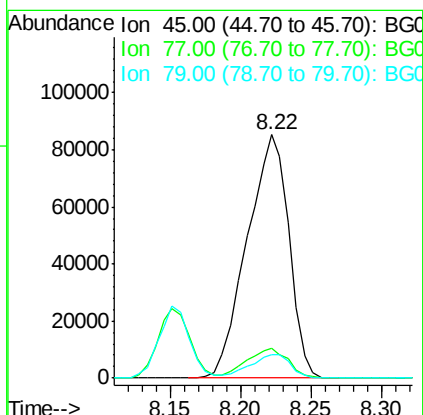
Tgt Ion: 45 Resp: 176650

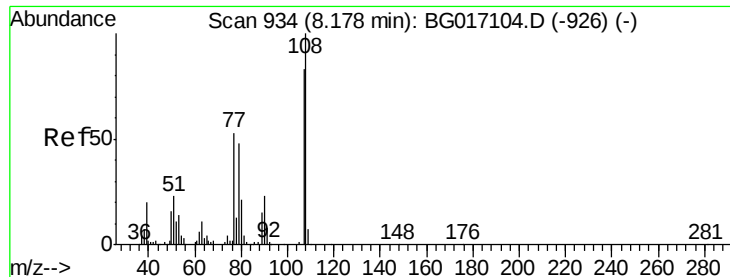
Ion Ratio Lower Upper

45 100

77 12.3 0.0 32.5

79 9.7 0.0 29.4





#17

2-Methylphenol

Concen: 32.64 ng

RT: 8.15 min Scan# 930

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

Tgt Ion:107 Resp: 69981

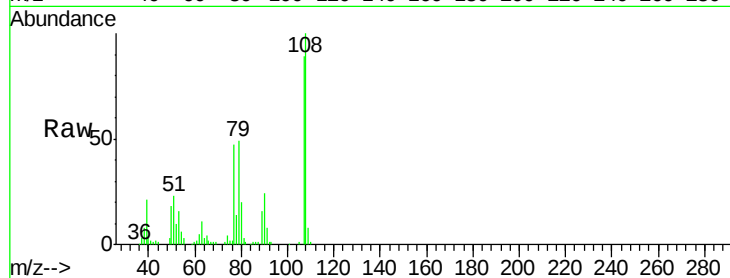
Ion Ratio Lower Upper

107 100

108 112.6 96.6 144.8

77 53.0 51.2 76.8

79 55.7 45.9 68.9

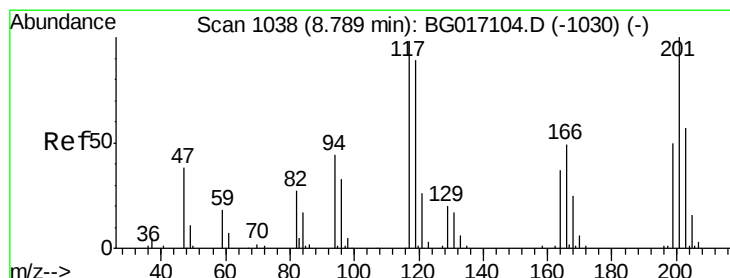
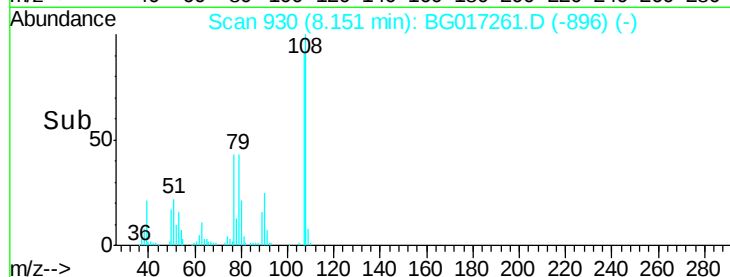
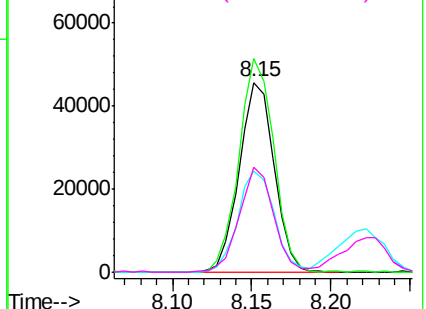


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BG

Ion 79.00 (78.70 to 79.70): BG



#18

Hexachloroethane

Concen: 43.06 ng

RT: 8.76 min Scan# 1033

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

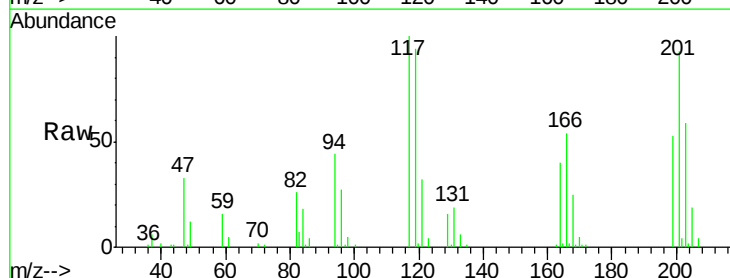
Tgt Ion:117 Resp: 48194

Ion Ratio Lower Upper

117 100

119 94.1 73.0 109.6

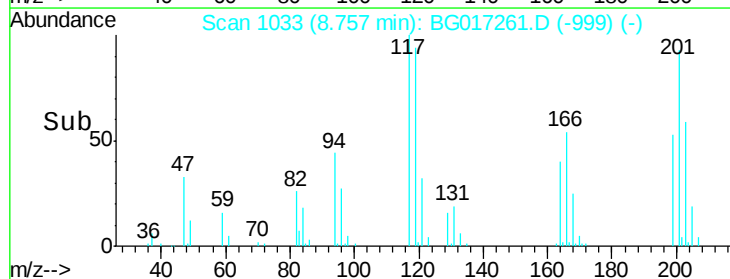
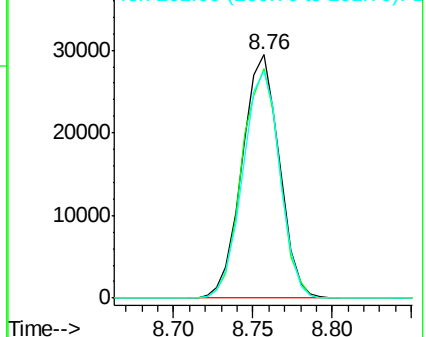
201 93.1 81.7 122.5

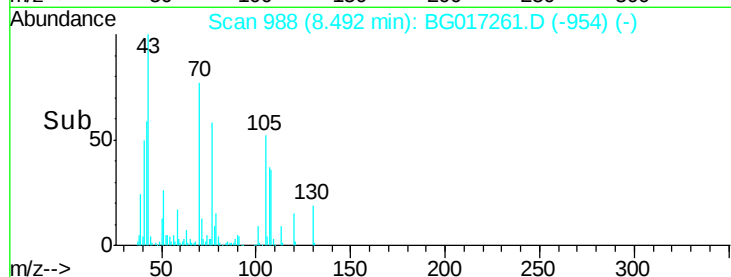
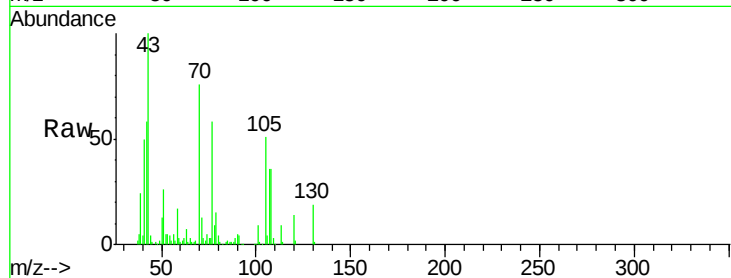
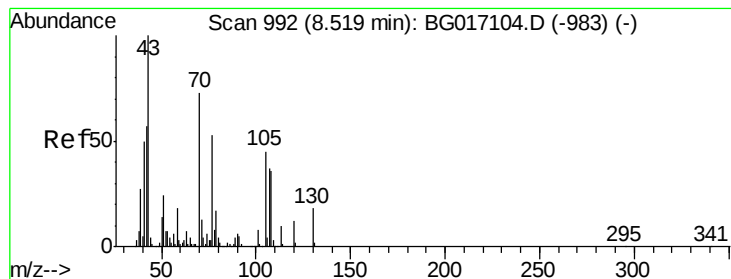


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E





#19

n-Nitroso-di-n-propylamine

Concen: 41.44 ng

RT: 8.49 min Scan# 988

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

Tgt Ion: 70 Resp: 100679

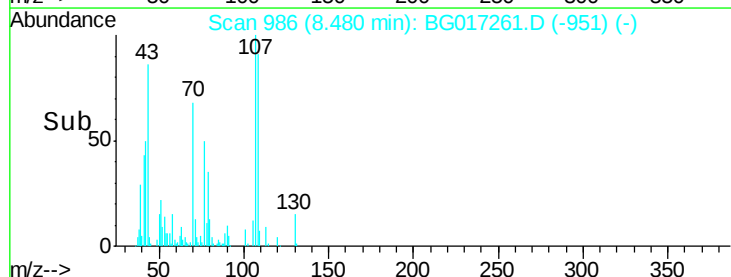
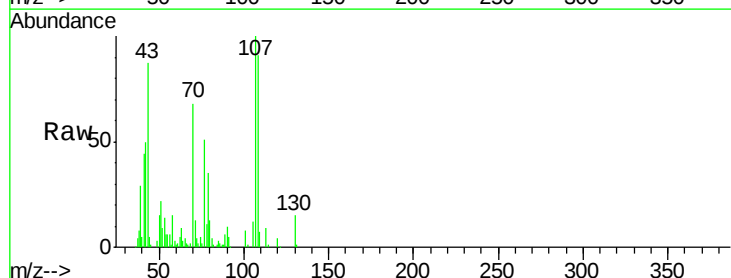
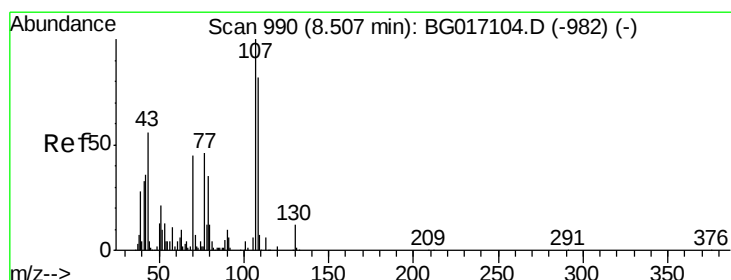
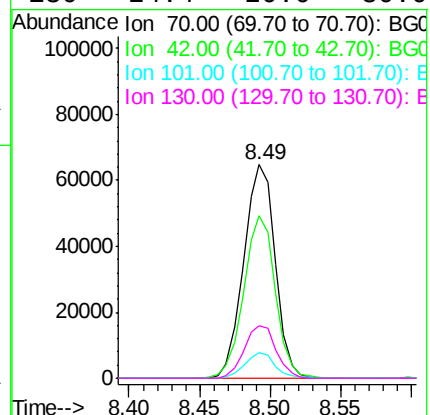
Ion Ratio Lower Upper

70 100

42 76.1 62.6 94.0

101 12.0 9.0 13.4

130 24.4 20.0 30.0



#20

3+4-Methylphenols

Concen: 29.03 ng

RT: 8.48 min Scan# 986

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Tgt Ion: 107 Resp: 86487

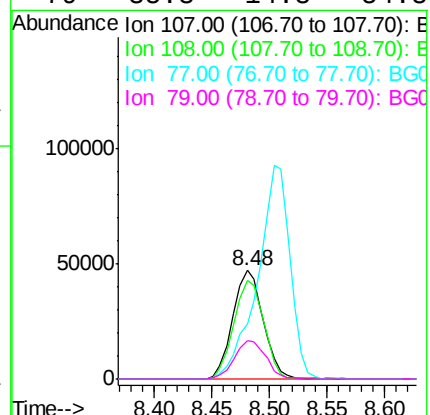
Ion Ratio Lower Upper

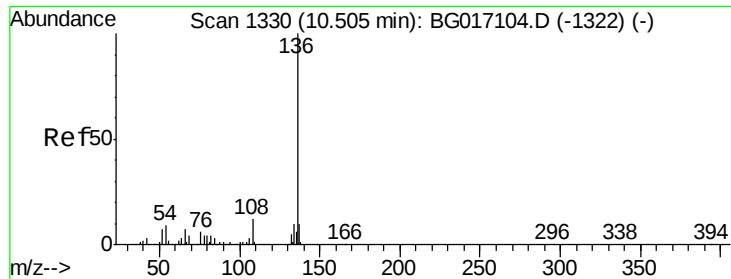
107 100

108 91.3 62.2 102.2

77 50.6 26.0 66.0

79 35.3 14.8 54.8

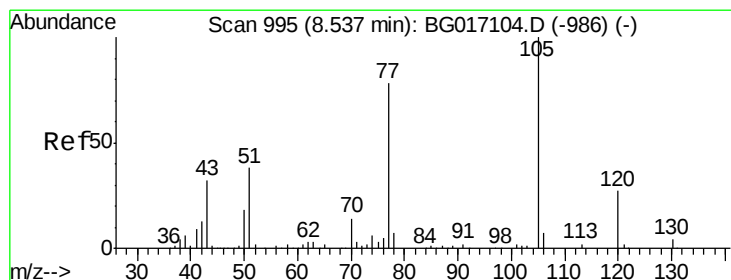
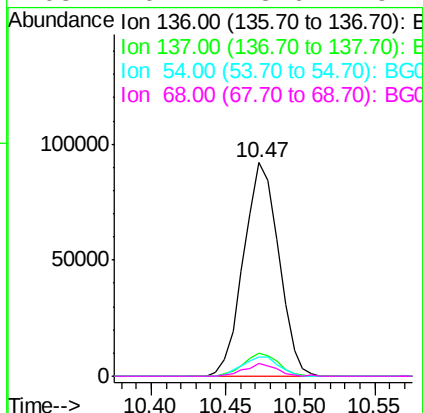
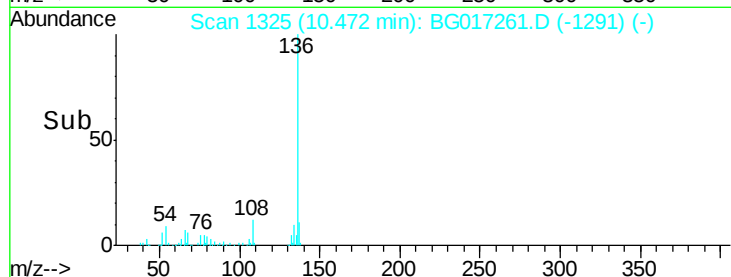
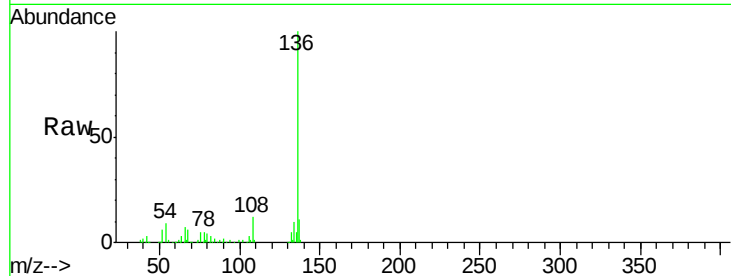




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.47 min Scan# 1325  
Delta R.T. 0.00 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

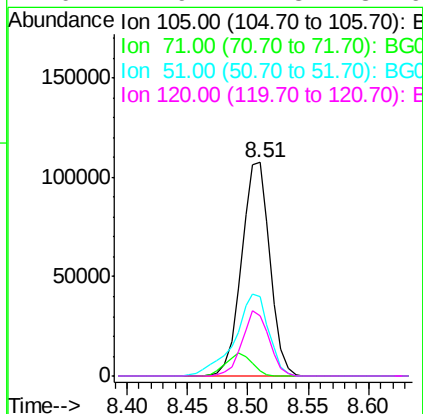
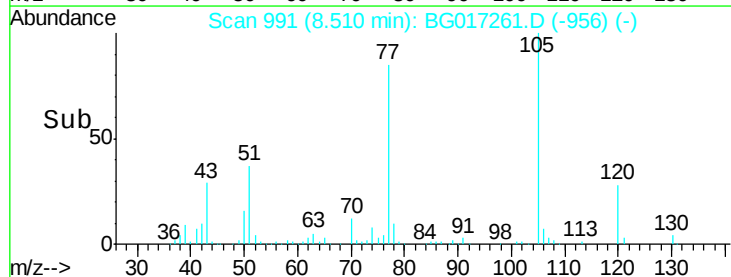
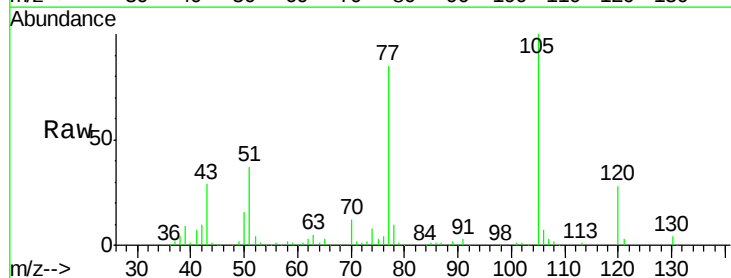
Instrument :  
BNA\_G  
ClientSampleId :  
VE4-11MS

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 149819 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.5  | 8.3   | 12.5   |
| 54       | 9.2   | 7.4   | 11.2   |
| 68       | 6.1   | 3.6   | 5.4#   |



#22  
Acetophenone  
Concen: 48.22 ng  
RT: 8.51 min Scan# 991  
Delta R.T. 0.01 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 175341 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 71       | 2.2   | 2.2   | 3.4#   |
| 51       | 36.9  | 32.8  | 49.2   |
| 120      | 27.9  | 21.8  | 32.6   |

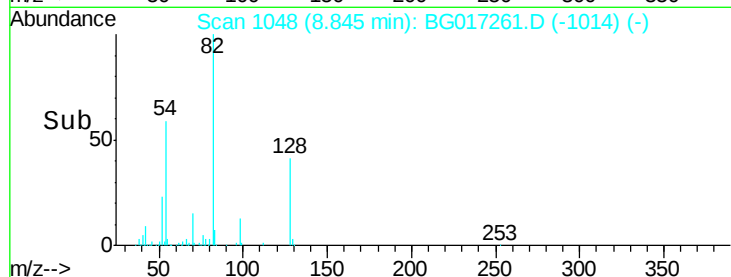
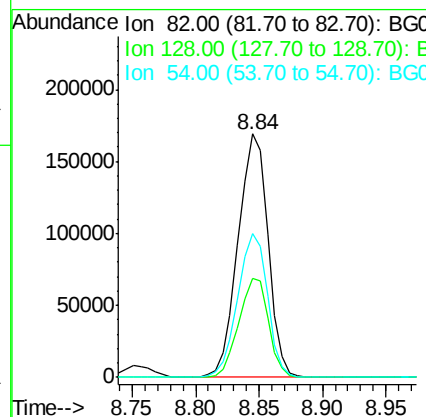
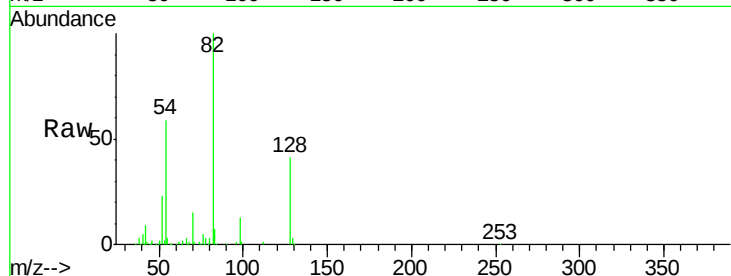




#23  
 Nitrobenzene-d5  
 Concen: 86.17 ng  
 RT: 8.84 min Scan# 1048  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

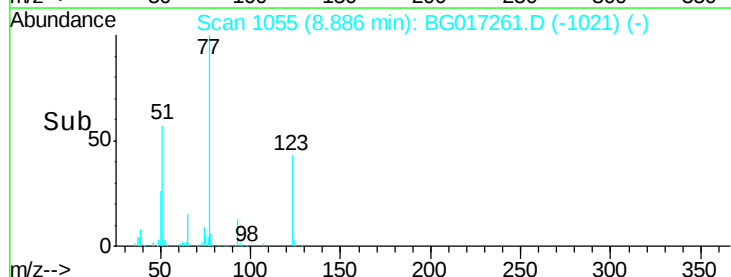
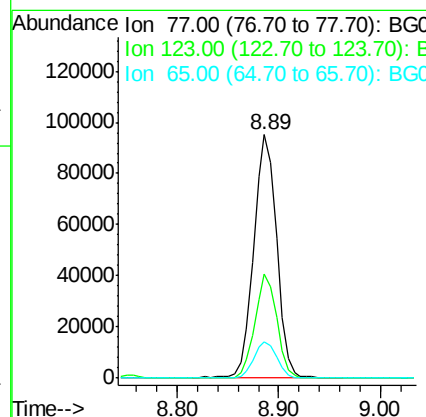
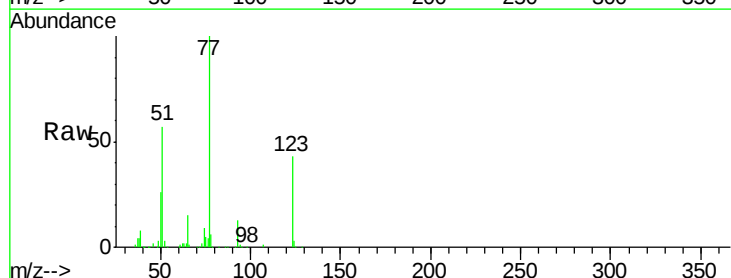
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VE4-11MS

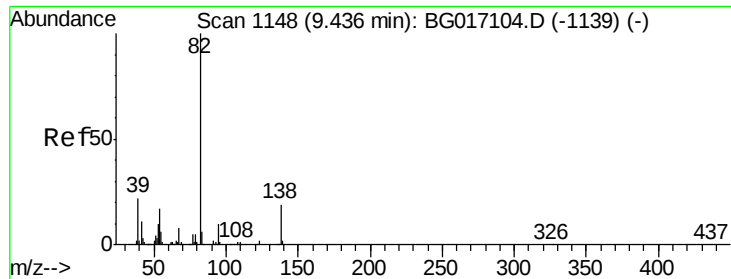
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 40.7  | 32.6  | 49.0  |
| 54      | 58.9  | 49.6  | 74.4  |



#24  
 Nitrobenzene  
 Concen: 47.63 ng  
 RT: 8.89 min Scan# 1055  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 42.6  | 33.0  | 49.4  |
| 65      | 15.1  | 13.3  | 19.9  |

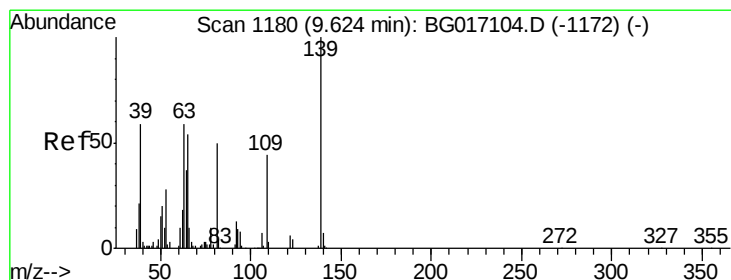
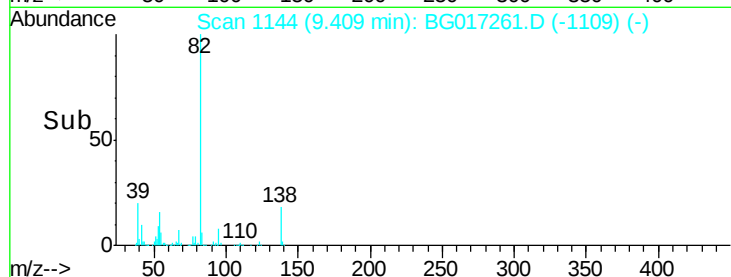
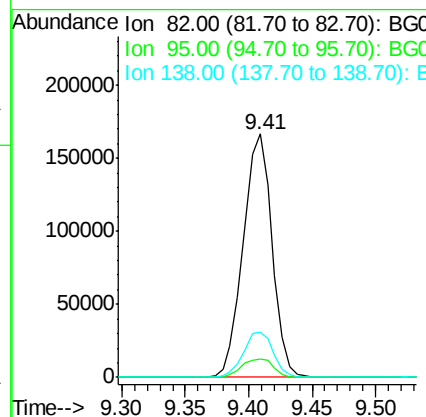
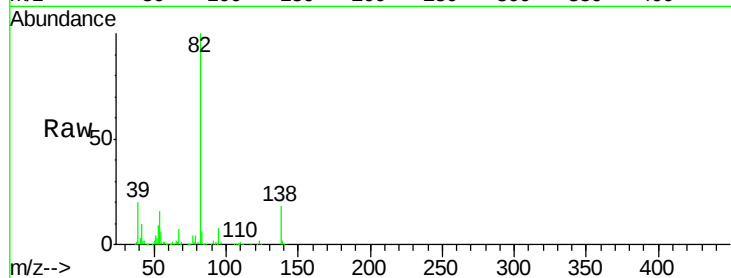




#25  
Isophorone  
Concen: 44.45 ng  
RT: 9.41 min Scan# 1144  
Delta R.T. 0.01 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

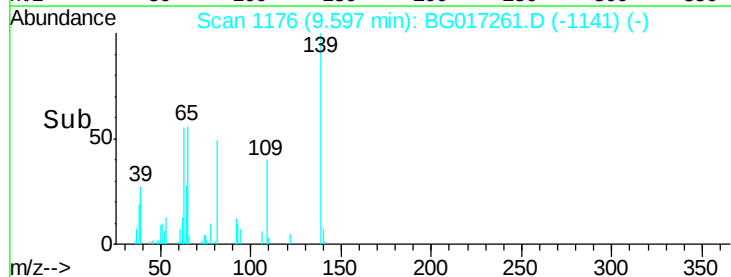
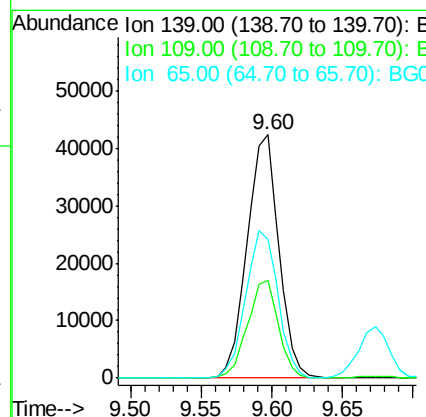
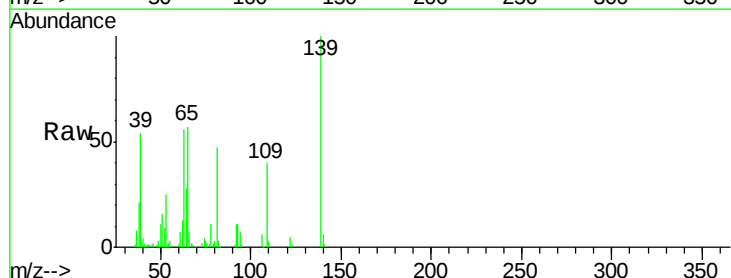
Instrument :  
BNA\_G  
ClientSampleId :  
VE4-11MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 7.7   | 7.7   | 11.5  |
| 138     | 18.3  | 15.0  | 22.6  |



#26  
2-Nitrophenol  
Concen: 47.74 ng  
RT: 9.60 min Scan# 1176  
Delta R.T. 0.01 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 40.0  | 34.9  | 52.3  |
| 65      | 57.1  | 43.0  | 64.4  |

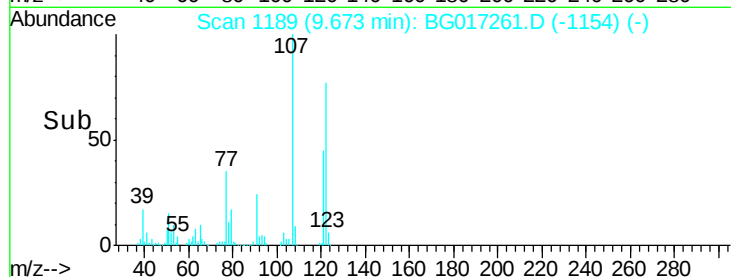
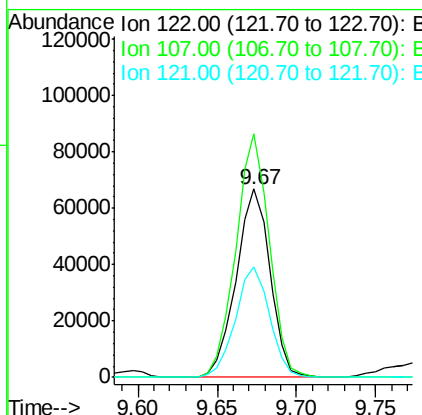
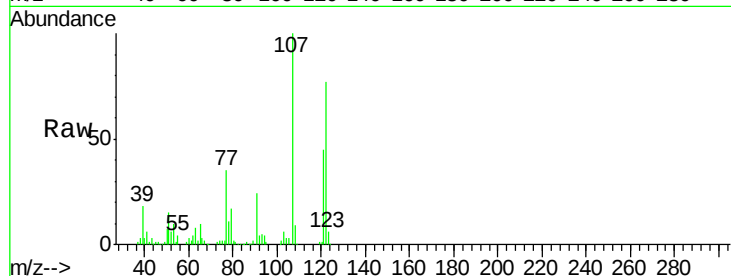




#27  
 2,4-Dimethylphenol  
 Concen: 42.96 ng  
 RT: 9.67 min Scan# 1189  
 Delta R.T. 0.01 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

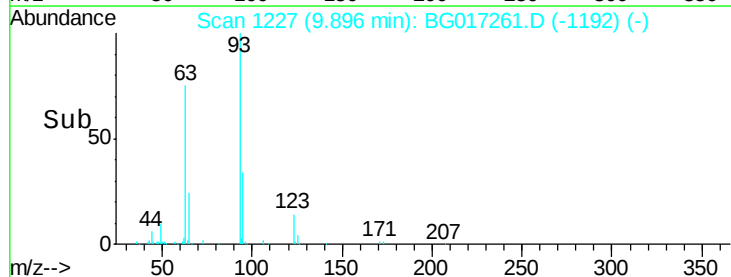
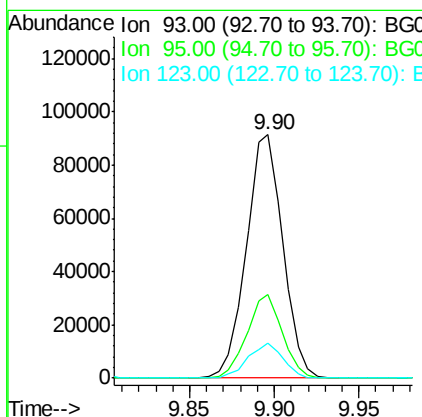
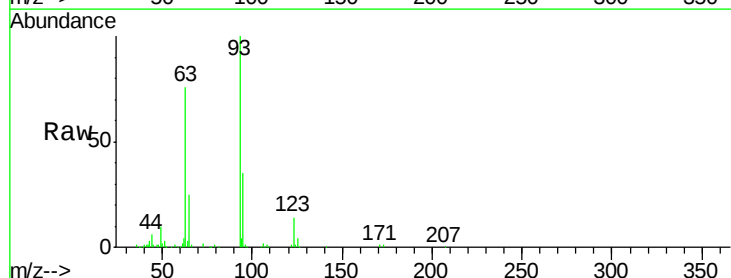
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VE4-11MS

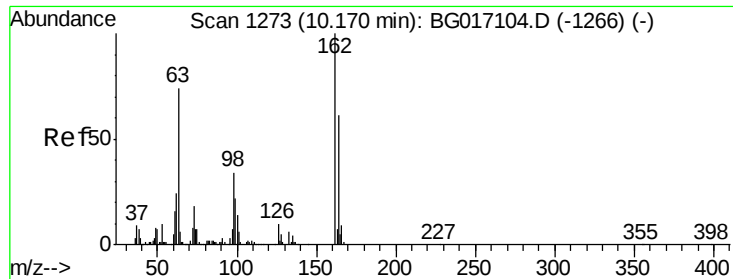
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 107     | 129.4 | 102.3 | 153.5 |
| 121     | 58.5  | 48.7  | 73.1  |



#28  
 bis(2-Chloroethoxy)methane  
 Concen: 47.73 ng  
 RT: 9.90 min Scan# 1227  
 Delta R.T. 0.01 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 34.6  | 28.0  | 42.0  |
| 123     | 14.4  | 10.3  | 15.5  |





#29

2,4-Dichlorophenol

Concen: 47.86 ng

RT: 10.14 min Scan# 1269

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

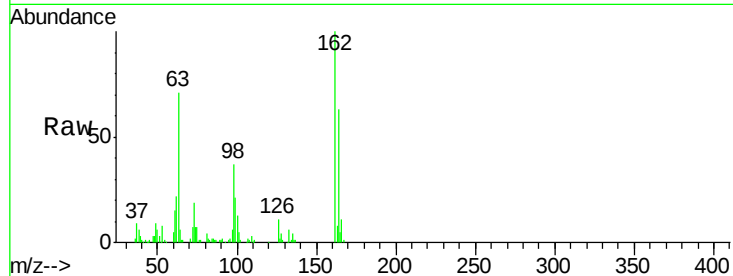
Tgt Ion:162 Resp: 104294

Ion Ratio Lower Upper

162 100

164 63.2 41.4 81.4

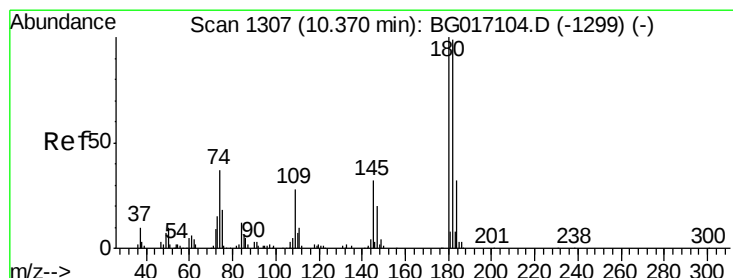
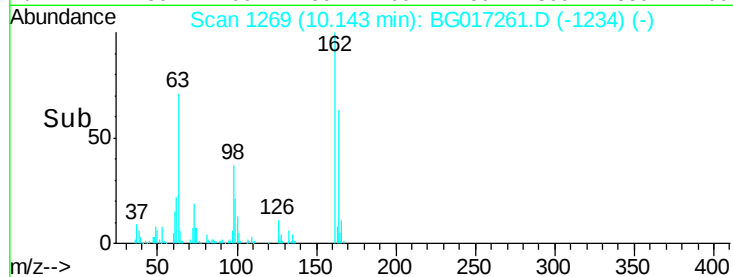
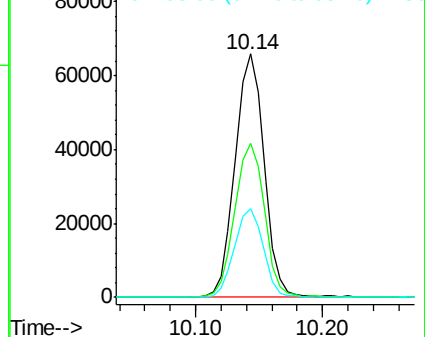
98 36.7 14.3 54.3



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): B



#30

1,2,4-Trichlorobenzene

Concen: 46.84 ng

RT: 10.34 min Scan# 1302

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

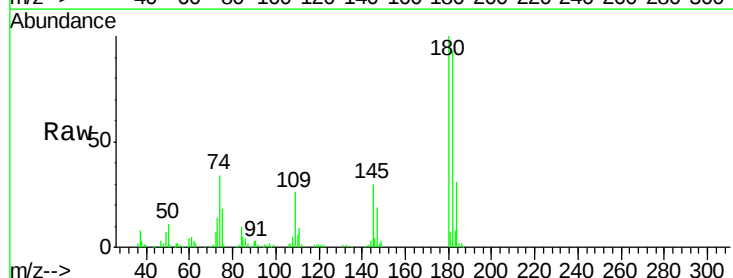
Tgt Ion:180 Resp: 115810

Ion Ratio Lower Upper

180 100

182 92.5 79.4 119.0

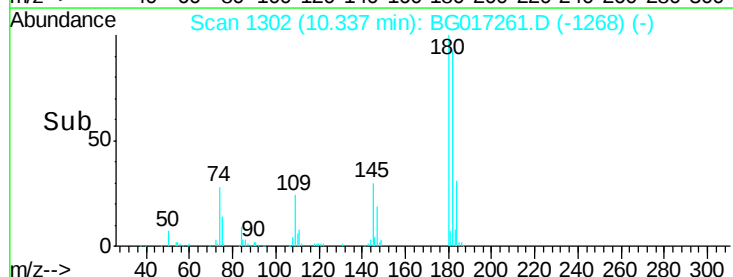
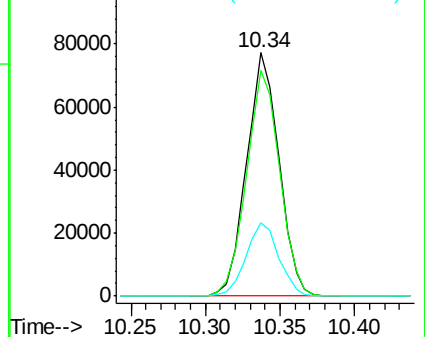
145 30.3 25.3 37.9



Abundance Ion 180.00 (179.70 to 180.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 145.00 (144.70 to 145.70): E

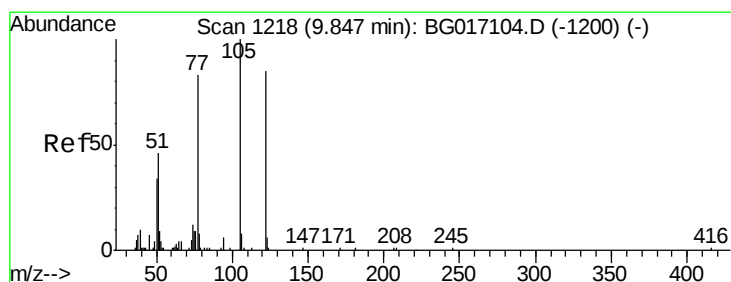
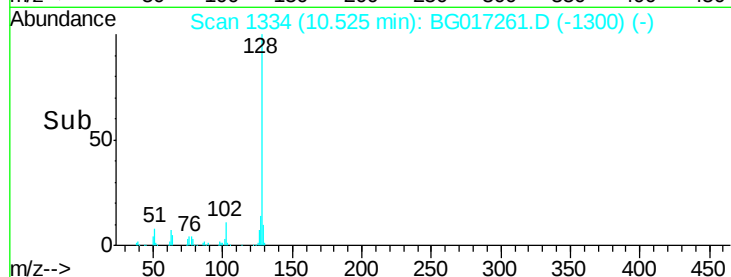
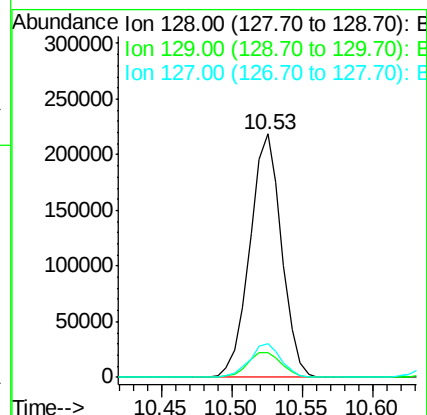
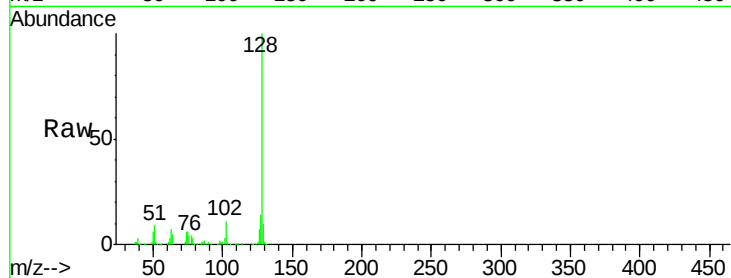




#31  
Naphthalene  
Concen: 46.92 ng  
RT: 10.53 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

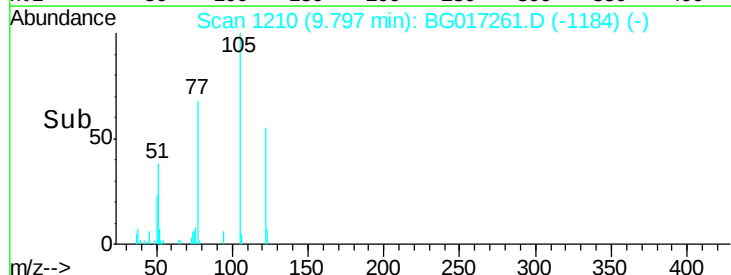
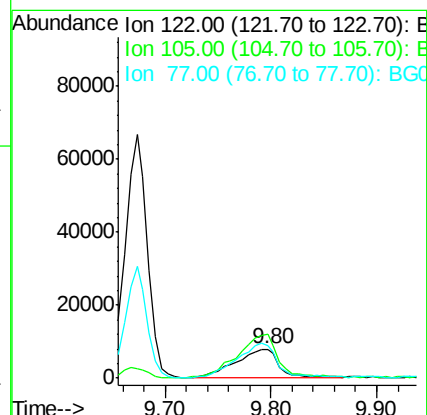
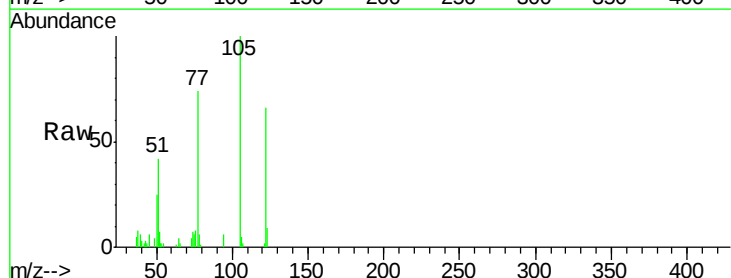
Instrument :  
BNA\_G  
ClientSampleId :  
VE4-11MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.3  | 7.6   | 11.4  |
| 127     | 13.9  | 10.6  | 16.0  |



#32  
Benzoic acid  
Concen: 13.69 ng  
RT: 9.80 min Scan# 1210  
Delta R.T. -0.05 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 151.2 | 96.7  | 136.7# |
| 77      | 112.0 | 78.5  | 118.5  |

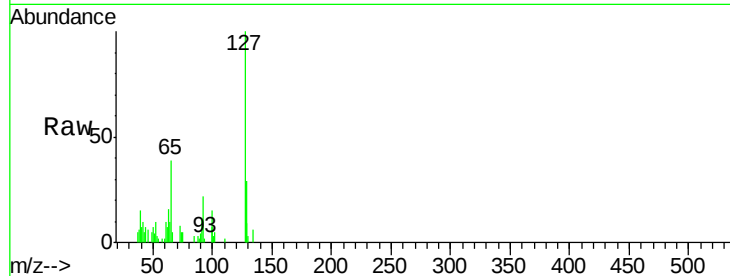




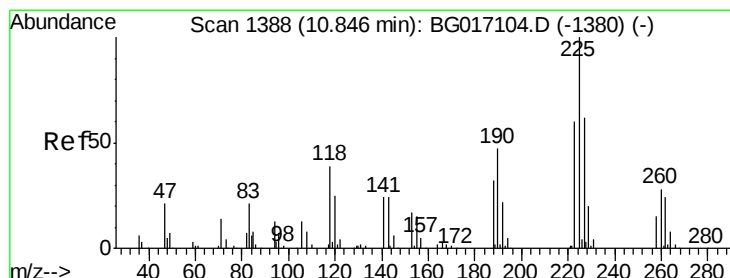
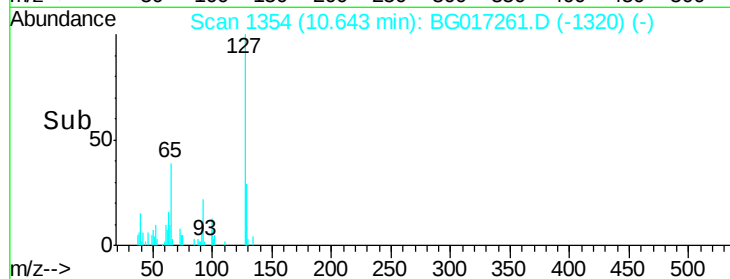
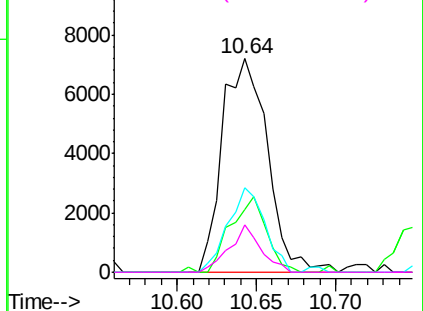
#33  
4-Chloroaniline  
Concen: 4.11 ng  
RT: 10.64 min Scan# 1354  
Delta R.T. 0.00 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

Instrument :  
BNA\_G  
ClientSampleId :  
VE4-11MS

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 127   | Resp: | 14238 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 29.5  | 24.8  | 37.2  |
| 65       | 39.4  | 25.8  | 38.6  |
| 92       | 22.4  | 15.0  | 22.4  |

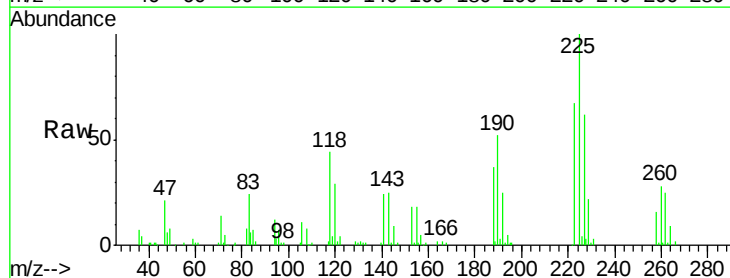


Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BG  
Ion 92.00 (91.70 to 92.70): BG

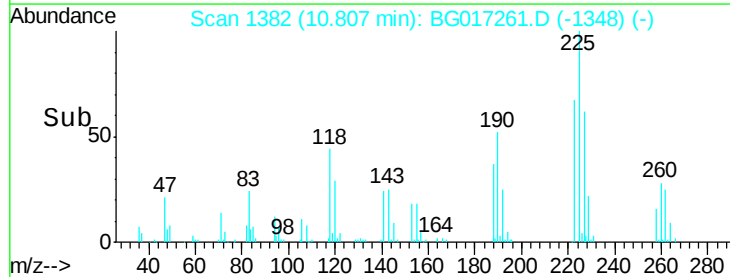
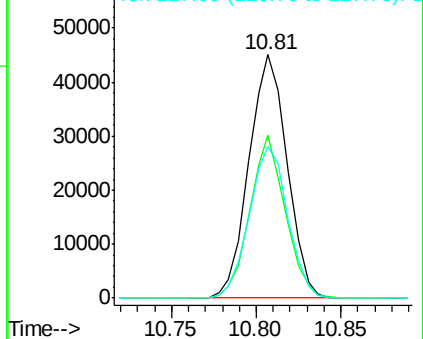


#34  
Hexachlorobutadiene  
Concen: 45.02 ng  
RT: 10.81 min Scan# 1382  
Delta R.T. 0.00 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 70468 |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 66.9  | 48.3  | 72.5  |
| 227      | 62.2  | 49.8  | 74.8  |



Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E





#35

Caprolactam

Concen: 5.81 ng

RT: 11.43 min Scan# 1488

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

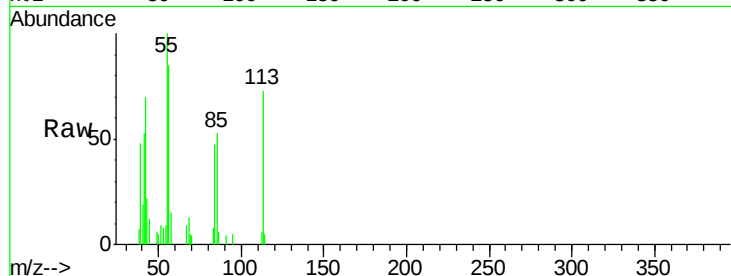
Tgt Ion:113 Resp: 6370

Ion Ratio Lower Upper

113 100

55 136.2 124.1 164.1

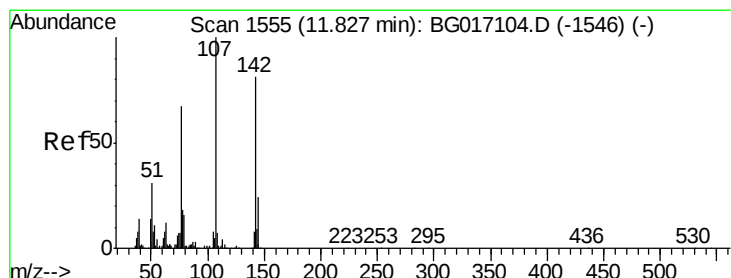
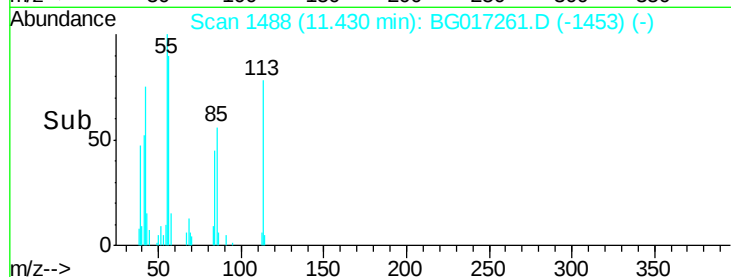
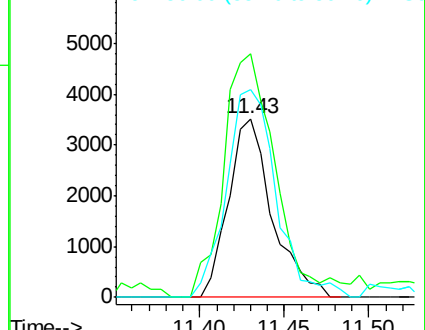
56 115.9 100.3 140.3



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BGC

Ion 56.00 (55.70 to 56.70): BGC



#36

4-Chloro-3-methylphenol

Concen: 41.32 ng

RT: 11.79 min Scan# 1550

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

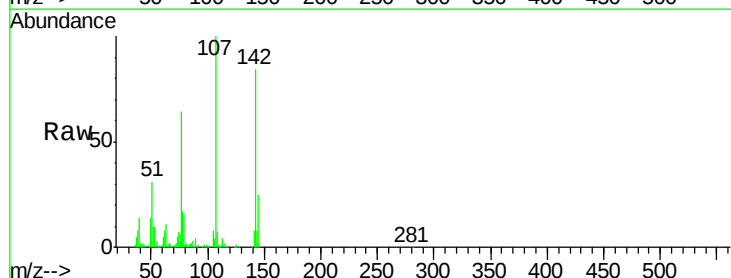
Tgt Ion:107 Resp: 113763

Ion Ratio Lower Upper

107 100

144 25.2 19.6 29.4

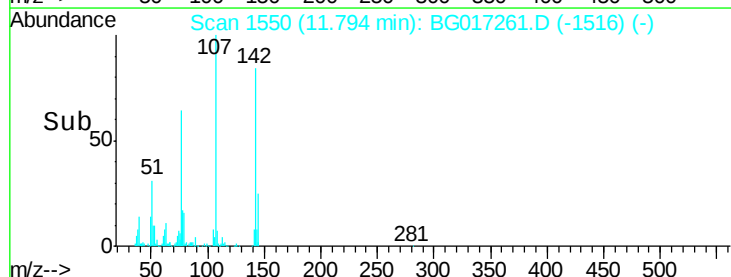
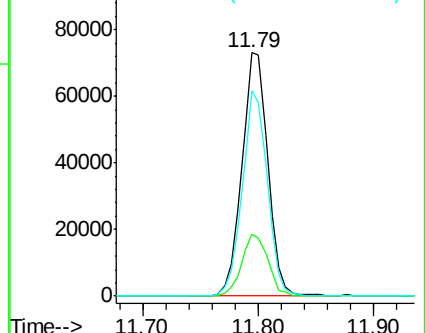
142 84.1 64.9 97.3

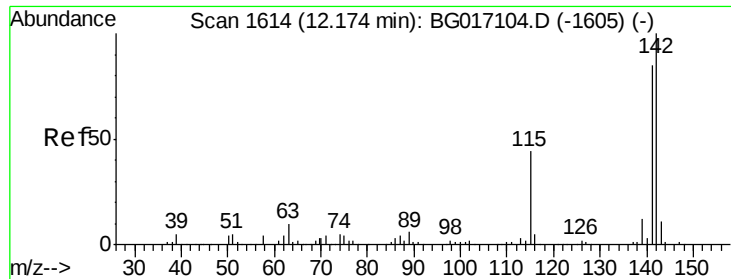


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

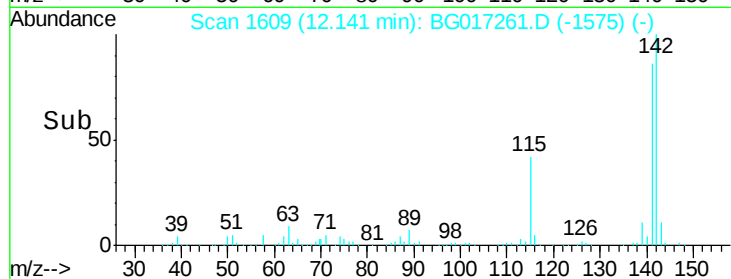
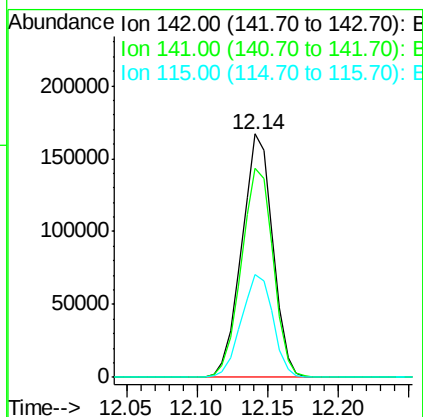
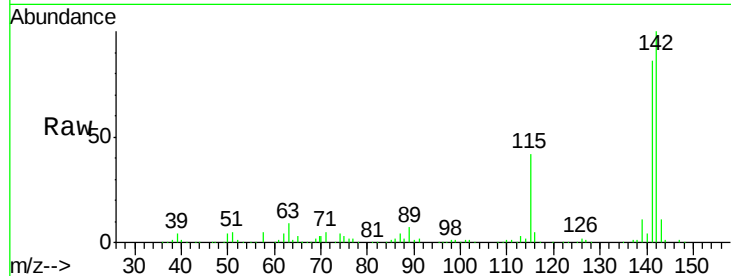




#37  
 2-Methylnaphthalene  
 Concen: 44.17 ng  
 RT: 12.14 min Scan# 1609  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

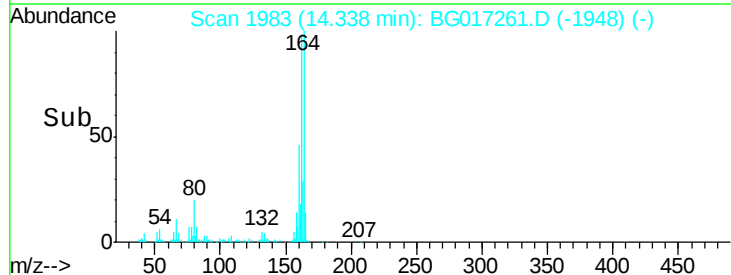
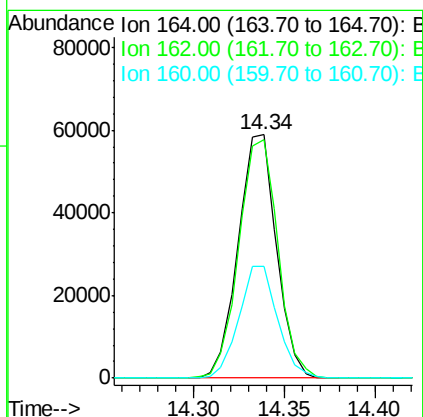
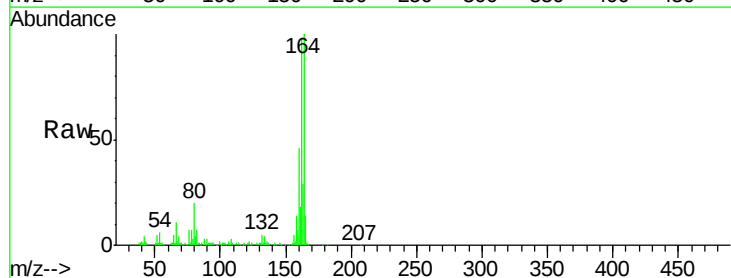
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VE4-11MS

Tgt Ion:142 Resp: 256844  
 Ion Ratio Lower Upper  
 142 100  
 141 85.9 68.2 102.2  
 115 42.0 35.6 53.4



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.34 min Scan# 1983  
 Delta R.T. 0.01 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

Tgt Ion:164 Resp: 86818  
 Ion Ratio Lower Upper  
 164 100  
 162 97.8 82.1 123.1  
 160 45.8 34.8 52.2





#39

1,2,4,5-Tetrachlorobenzene

Concen: 51.72 ng

RT: 12.52 min Scan# 1673

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

Tgt Ion:216 Resp: 127052

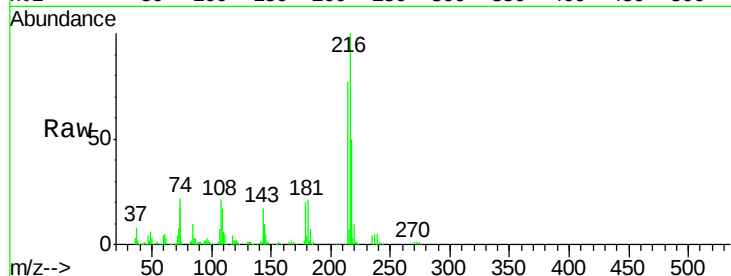
Ion Ratio Lower Upper

216 100

214 78.2 63.3 94.9

179 21.4 17.8 26.8

108 25.8 19.9 29.9

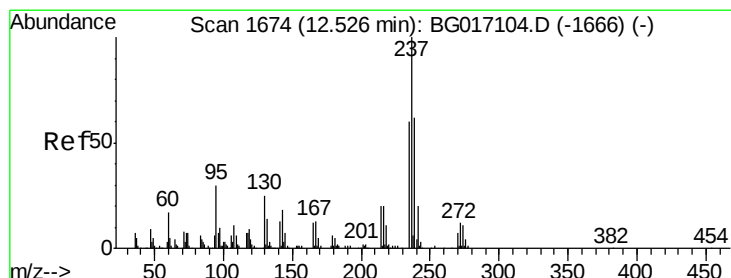
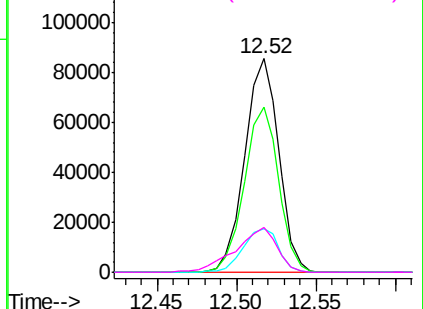
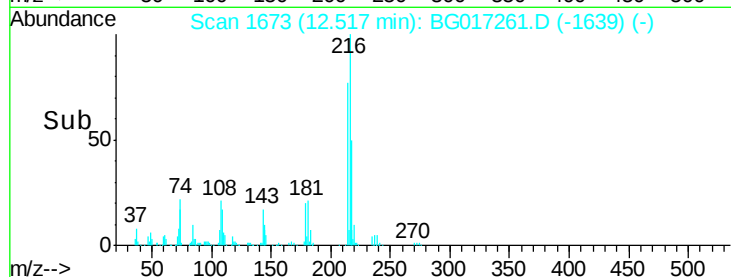


Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#40

Hexachlorocyclopentadiene

Concen: 106.39 ng

RT: 12.49 min Scan# 1669

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

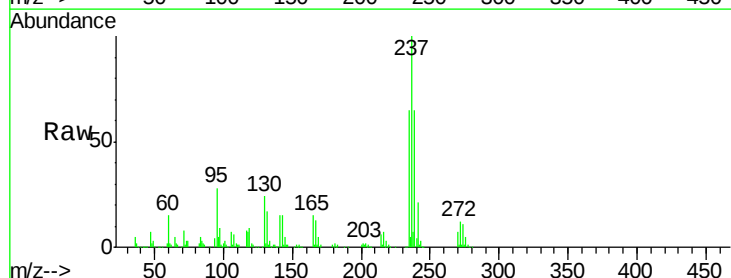
Tgt Ion:237 Resp: 159400

Ion Ratio Lower Upper

237 100

235 64.6 39.7 79.7

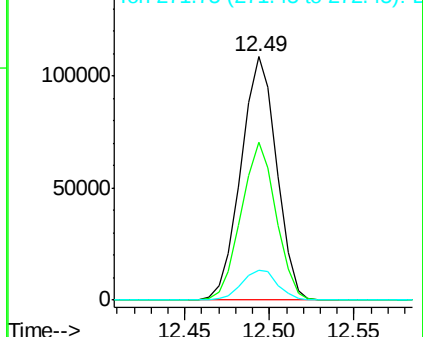
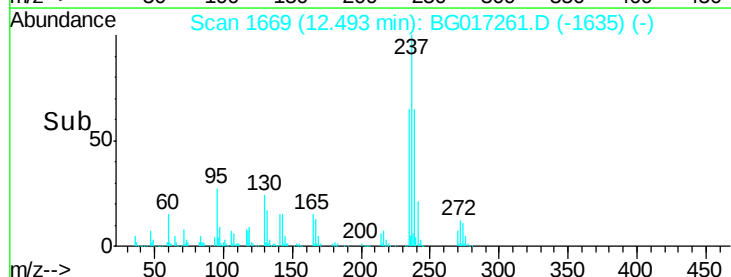
272 12.3 0.0 32.1

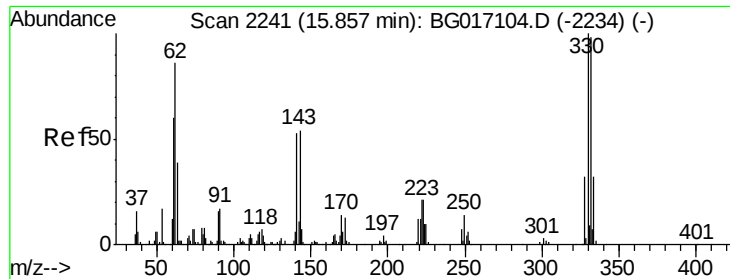


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

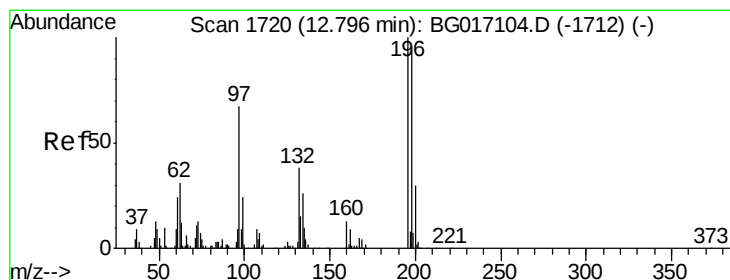
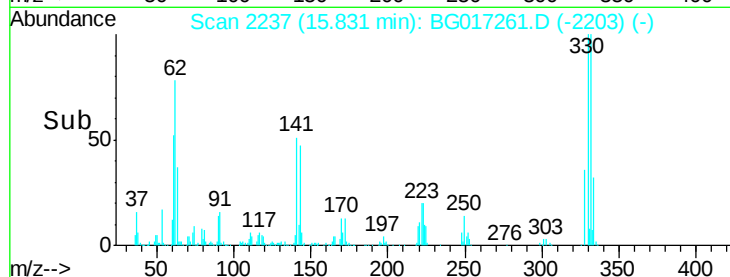
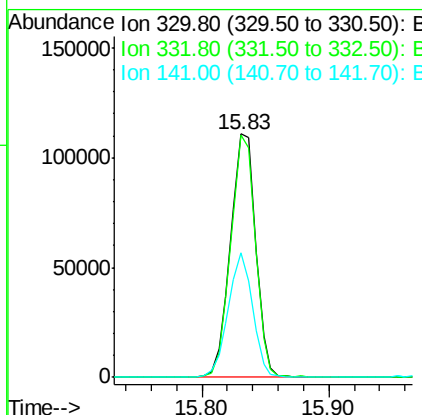
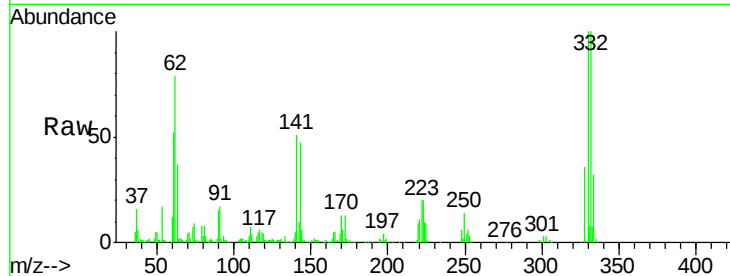




#41  
 2,4,6-Tribromophenol  
 Concen: 145.48 ng  
 RT: 15.83 min Scan# 2237  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

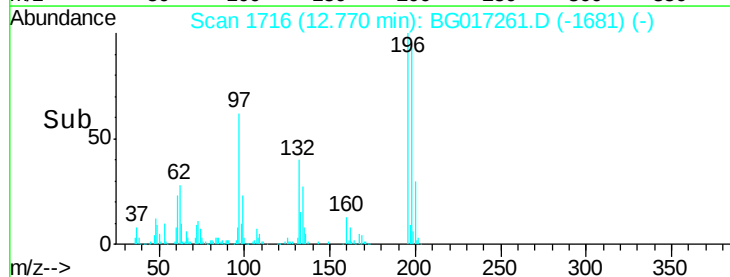
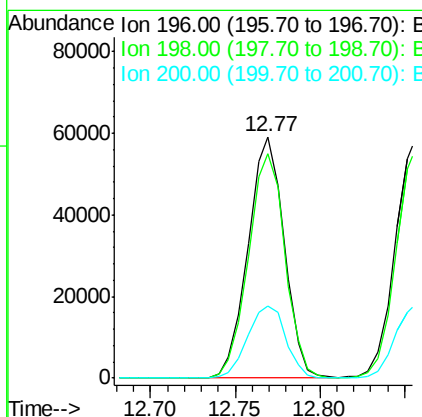
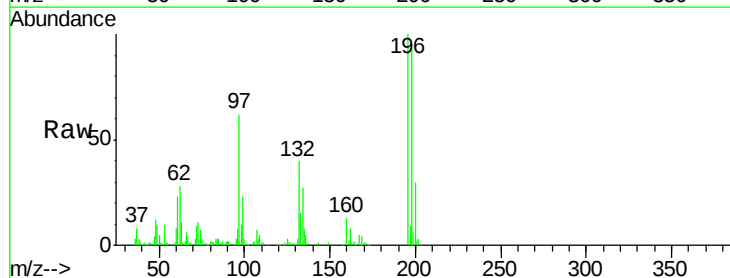
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VE4-11MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.1  | 76.9  | 115.3 |
| 141     | 49.7  | 42.2  | 63.2  |



#42  
 2,4,6-Trichlorophenol  
 Concen: 50.70 ng  
 RT: 12.77 min Scan# 1716  
 Delta R.T. 0.01 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 198     | 92.8  | 74.9  | 112.3 |
| 200     | 30.0  | 24.2  | 36.2  |

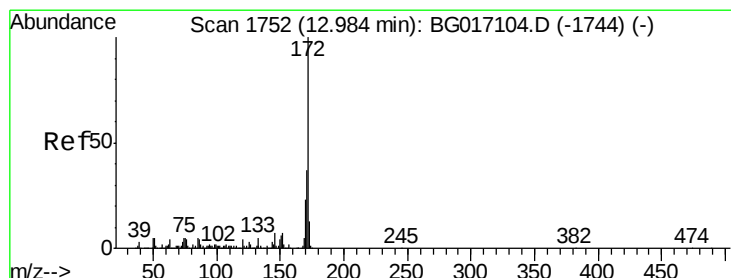
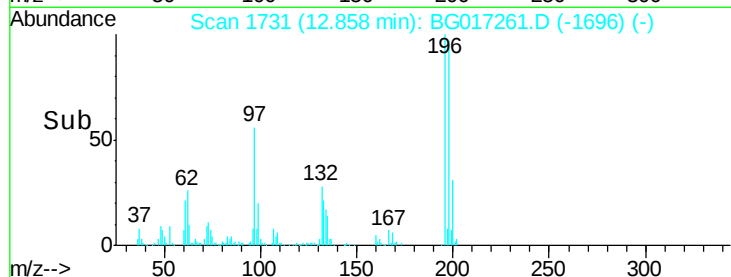
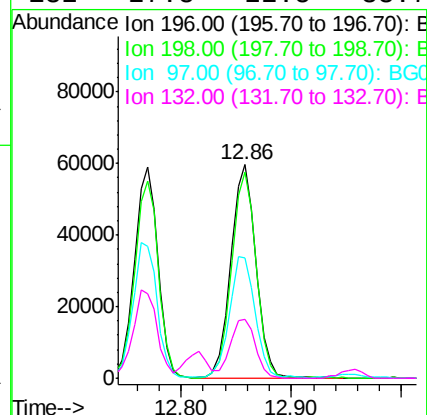
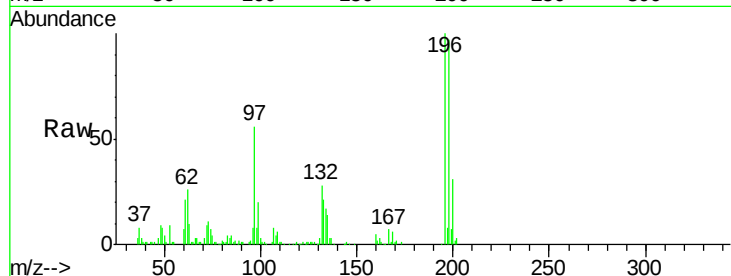




#43  
 2,4,5-Trichlorophenol  
 Concen: 53.26 ng  
 RT: 12.86 min Scan# 1731  
 Delta R.T. 0.01 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

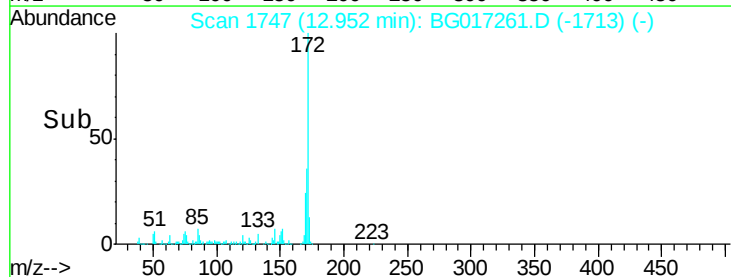
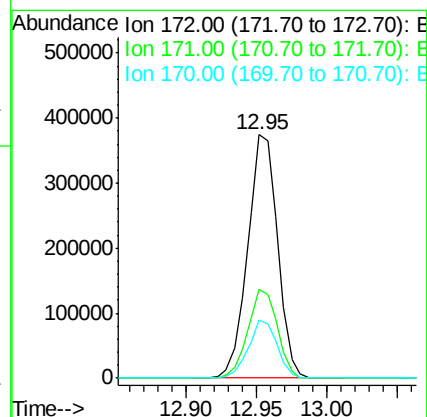
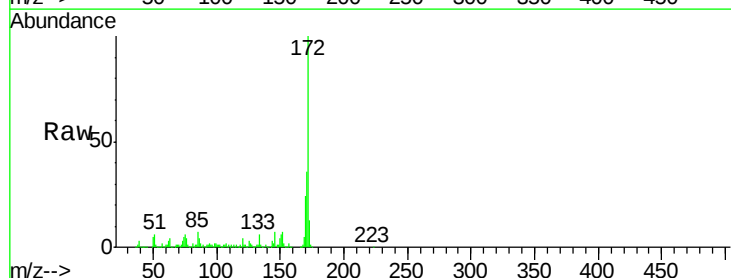
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VE4-11MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 198     | 96.6  | 71.4  | 107.0 |
| 97      | 56.3  | 45.4  | 68.0  |
| 132     | 27.8  | 22.5  | 33.7  |



#44  
 2-Fluorobiphenyl  
 Concen: 93.58 ng  
 RT: 12.95 min Scan# 1747  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.7  | 44.5  |
| 170     | 24.1  | 18.4  | 27.6  |

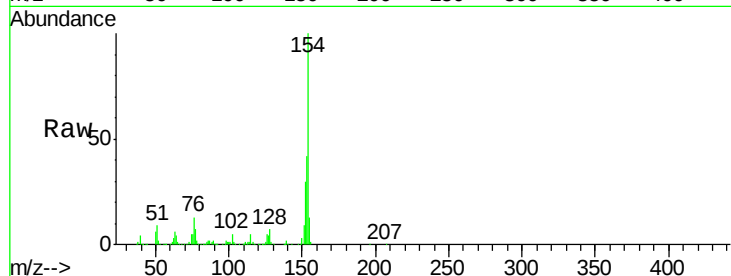




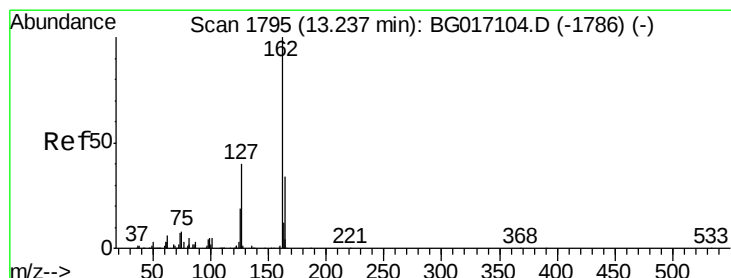
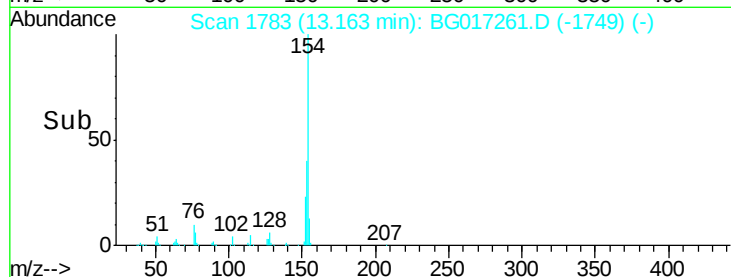
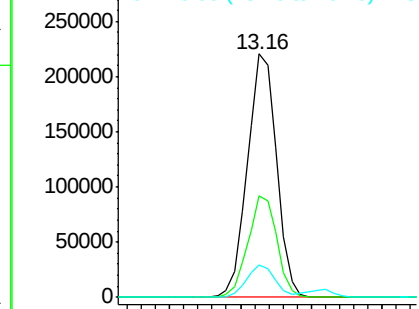
#45  
 1,1'-Biphenyl  
 Concen: 51.00 ng  
 RT: 13.16 min Scan# 1783  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

Instrument :  
 BNA\_G  
 ClientSampleId :  
 VE4-11MS

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 154   | Resp: | 318911 |
| Ion      | Ratio | Lower | Upper  |
| 154      | 100   |       |        |
| 153      | 41.8  | 21.5  | 61.5   |
| 76       | 13.5  | 0.0   | 31.9   |

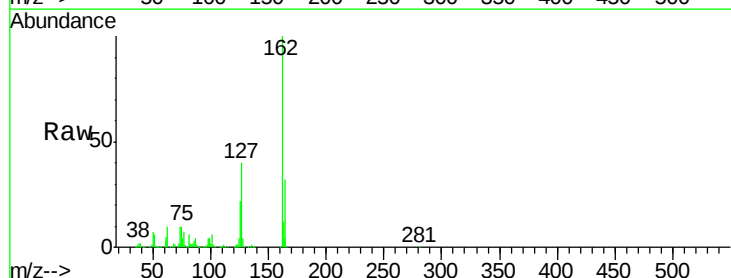


Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): BGC

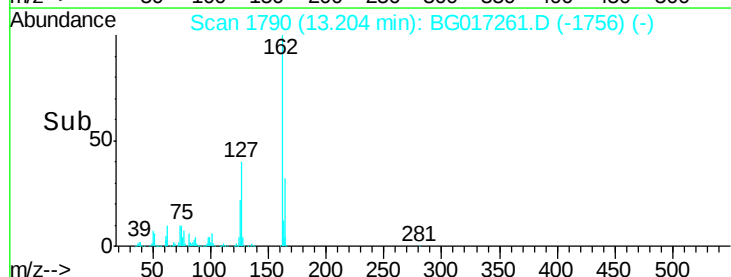
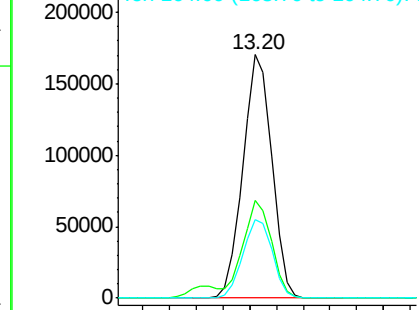


#46  
 2-Chloronaphthalene  
 Concen: 51.36 ng  
 RT: 13.20 min Scan# 1790  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 162   | Resp: | 254297 |
| Ion      | Ratio | Lower | Upper  |
| 162      | 100   |       |        |
| 127      | 39.9  | 33.5  | 50.3   |
| 164      | 32.0  | 27.0  | 40.6   |



Abundance Ion 162.00 (161.70 to 162.70): E  
 Ion 127.00 (126.70 to 127.70): E  
 Ion 164.00 (163.70 to 164.70): E





#47

2-Nitroaniline

Concen: 47.60 ng

RT: 13.42 min Scan# 1827

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

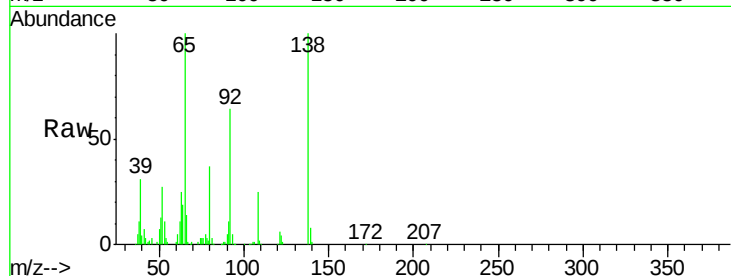
Tgt Ion: 65 Resp: 91694

Ion Ratio Lower Upper

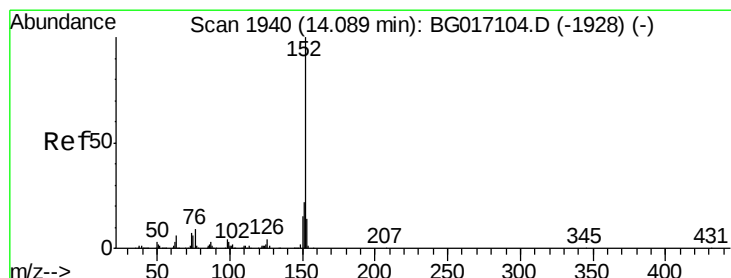
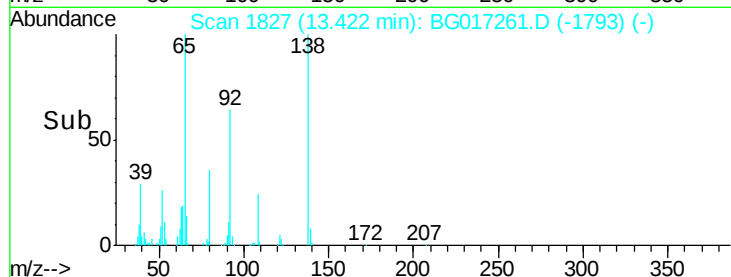
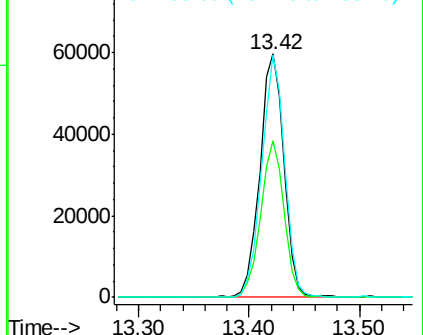
65 100

92 64.1 51.0 76.4

138 99.8 79.3 118.9



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



#48

Acenaphthylene

Concen: 48.85 ng

RT: 14.06 min Scan# 1935

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

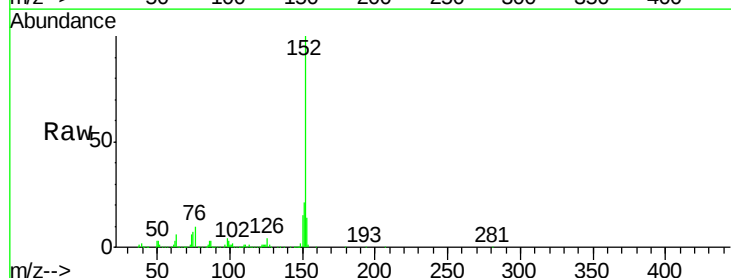
Tgt Ion: 152 Resp: 414241

Ion Ratio Lower Upper

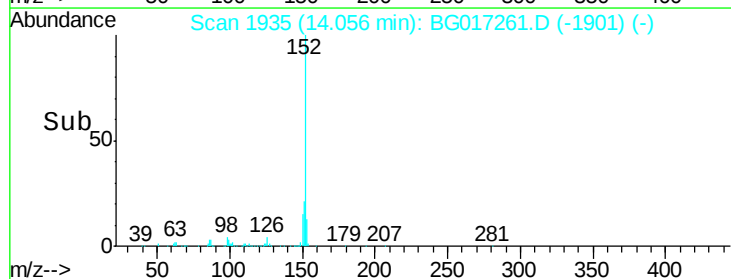
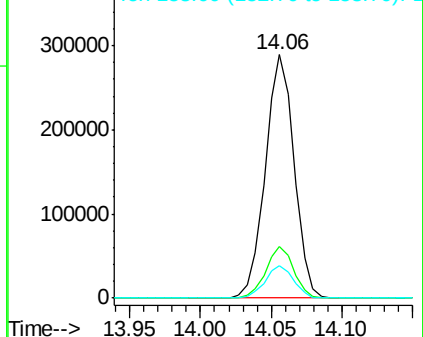
152 100

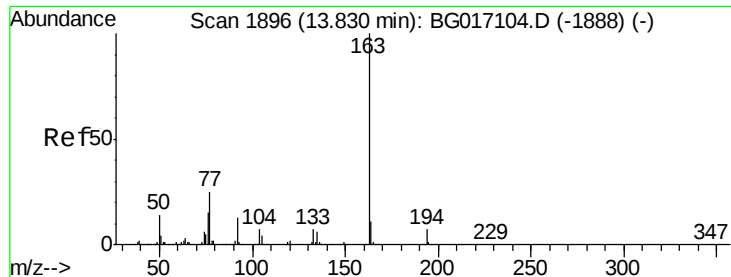
151 21.3 17.2 25.8

153 13.5 10.8 16.2



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

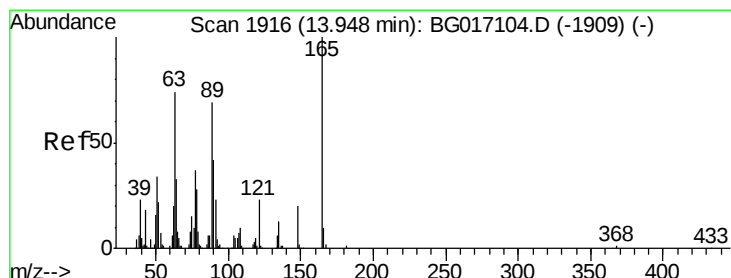
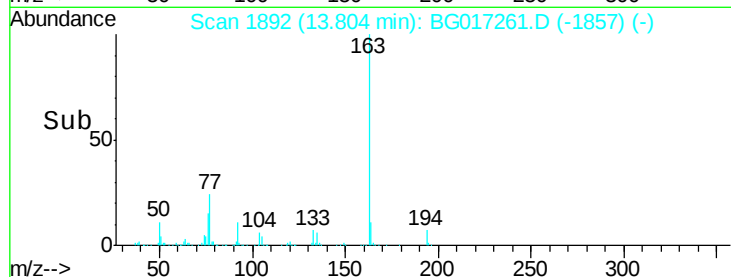
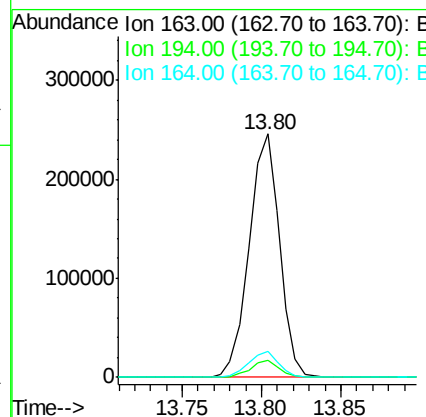
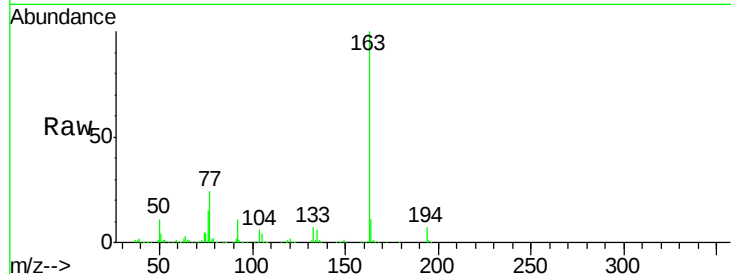




#49  
Dimethylphthalate  
Concen: 48.09 ng  
RT: 13.80 min Scan# 1892  
Delta R.T. 0.01 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

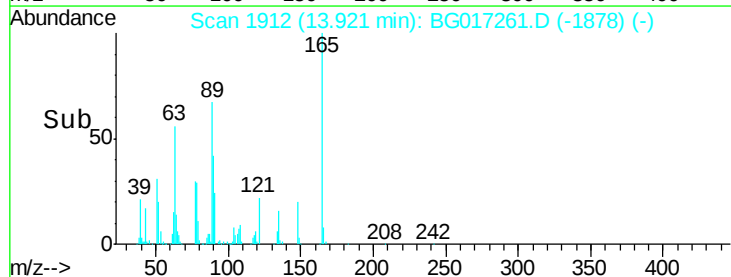
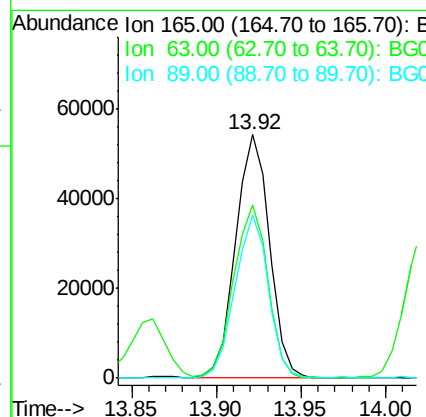
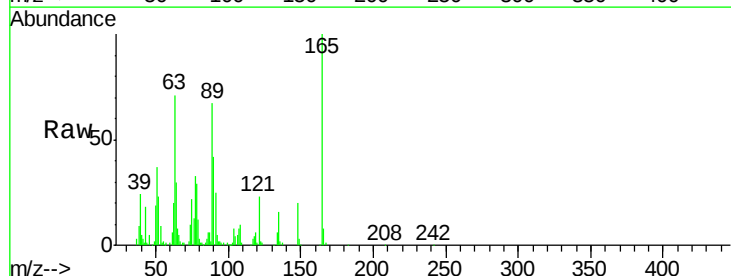
Instrument :  
BNA\_G  
ClientSampleId :  
VE4-11MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 6.8   | 5.6   | 8.4   |
| 164     | 10.6  | 8.6   | 13.0  |



#50  
2,6-Dinitrotoluene  
Concen: 50.35 ng  
RT: 13.92 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 71.0  | 60.6  | 90.8  |
| 89      | 66.8  | 55.0  | 82.6  |





#51

Acenaphthene

Concen: 49.88 ng

RT: 14.40 min Scan# 1994

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

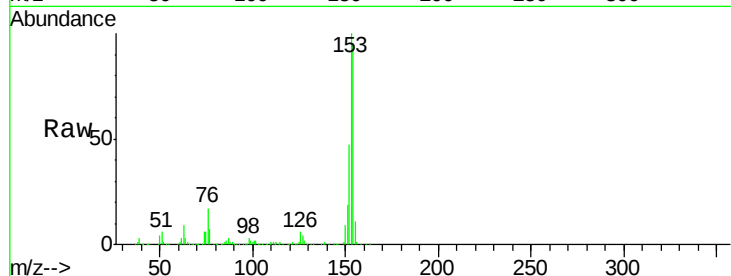
Tgt Ion:154 Resp: 249844

Ion Ratio Lower Upper

154 100

153 105.8 86.2 129.4

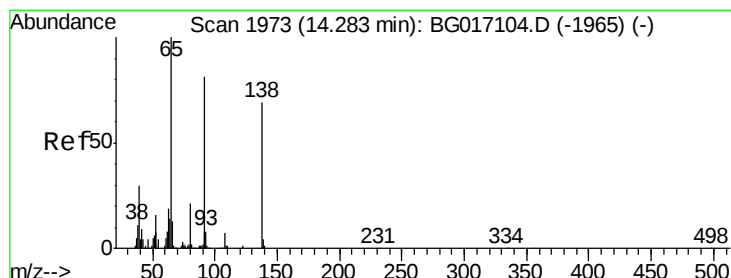
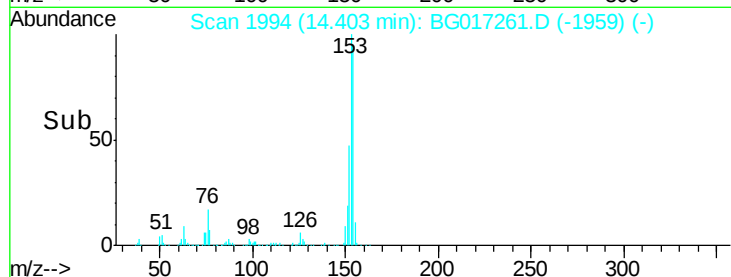
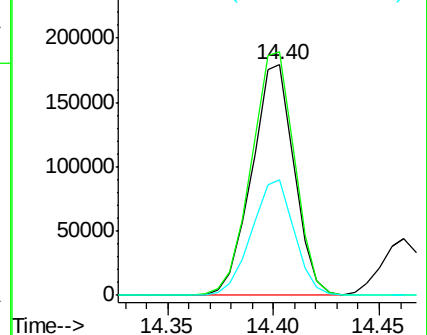
152 50.0 41.5 62.3



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



#52

3-Nitroaniline

Concen: 8.30 ng

RT: 14.25 min Scan# 1968

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

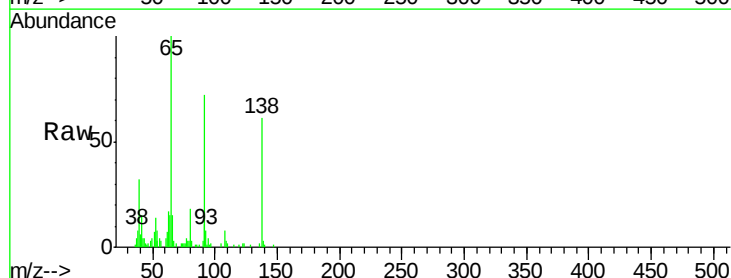
Tgt Ion:138 Resp: 13857

Ion Ratio Lower Upper

138 100

108 13.7 7.6 11.4#

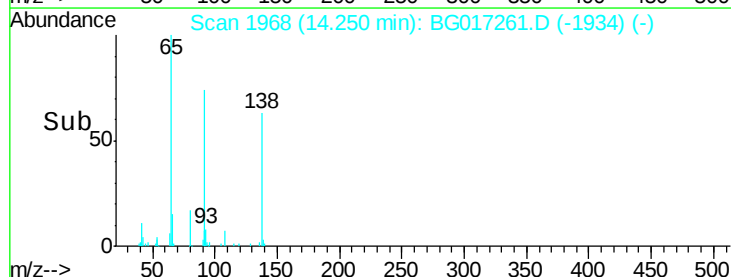
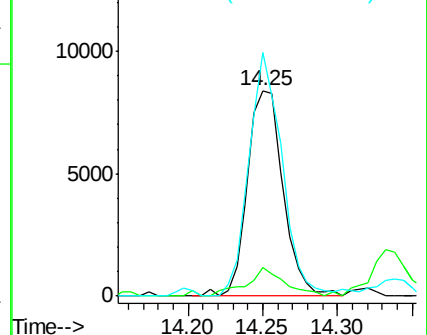
92 118.5 93.6 140.4

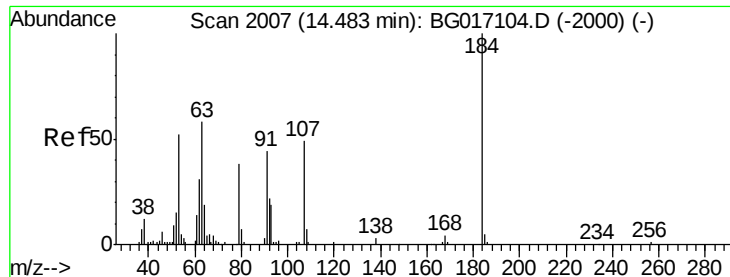


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BG

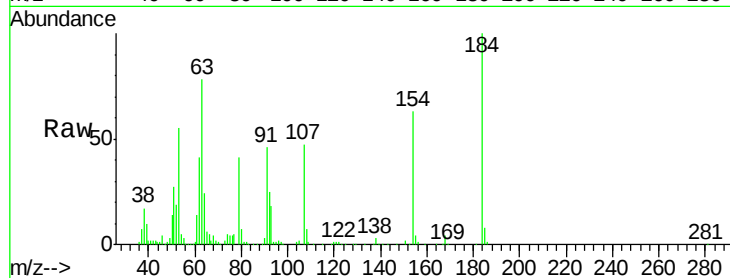




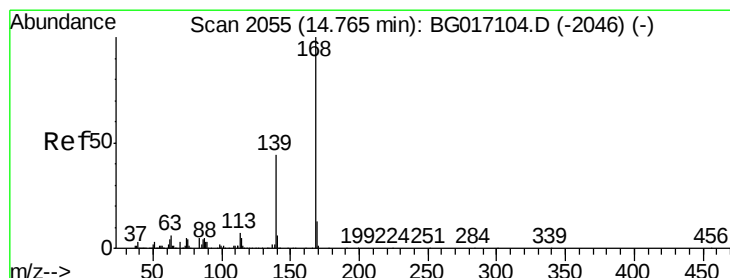
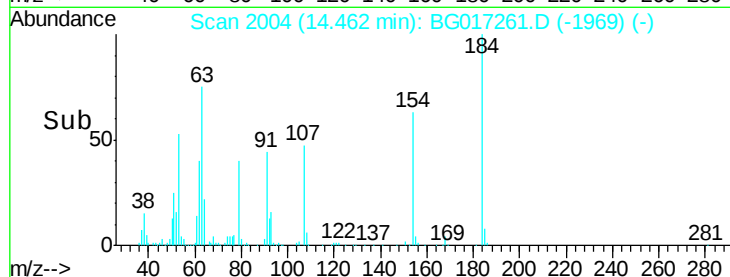
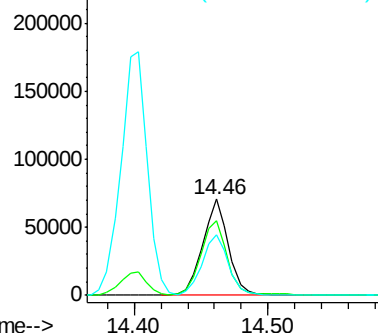
#53  
2,4-Dinitrophenol  
Concen: 108.84 ng  
RT: 14.46 min Scan# 2004  
Delta R.T. 0.01 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

Instrument :  
BNA\_G  
ClientSampleId :  
VE4-11MS

Tgt Ion:184 Resp: 95060  
Ion Ratio Lower Upper  
184 100  
63 77.9 63.6 95.4  
154 63.3 47.8 71.6

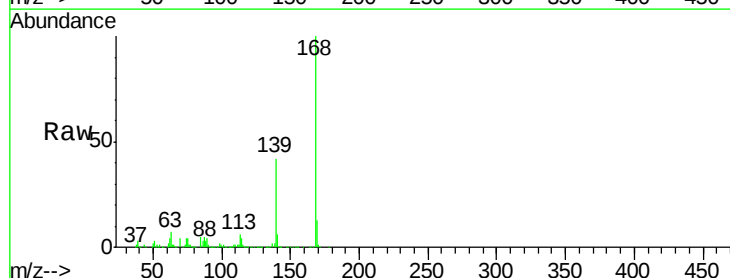


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BGO  
Ion 154.00 (153.70 to 154.70): E

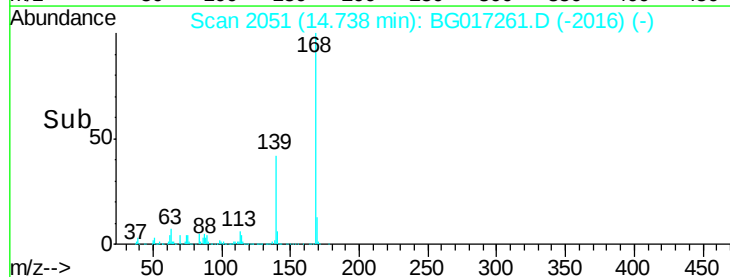
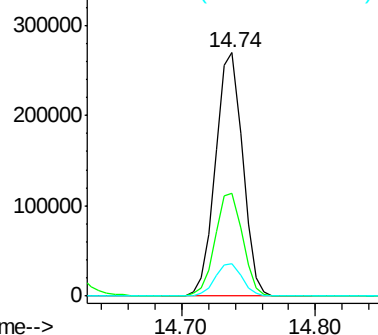


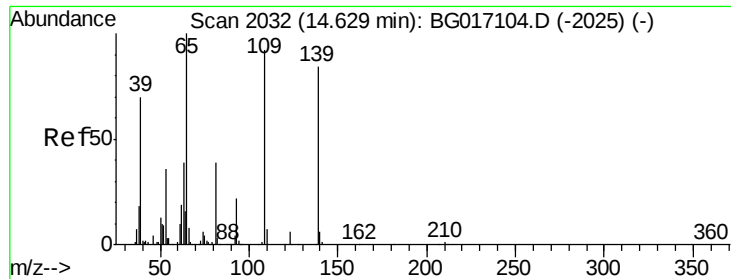
#54  
Dibenzofuran  
Concen: 50.61 ng  
RT: 14.74 min Scan# 2051  
Delta R.T. 0.01 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

Tgt Ion:168 Resp: 376864  
Ion Ratio Lower Upper  
168 100  
139 42.1 34.9 52.3  
169 13.2 10.5 15.7



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

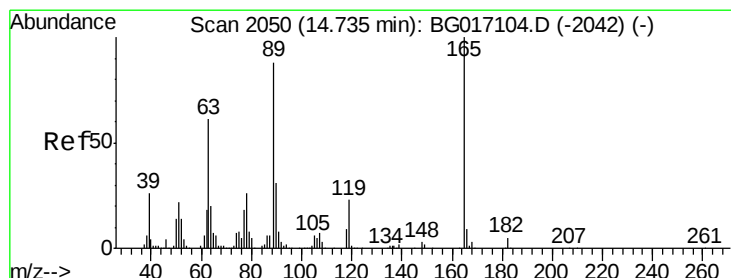
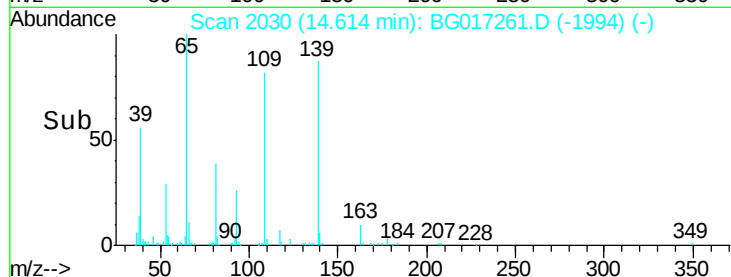
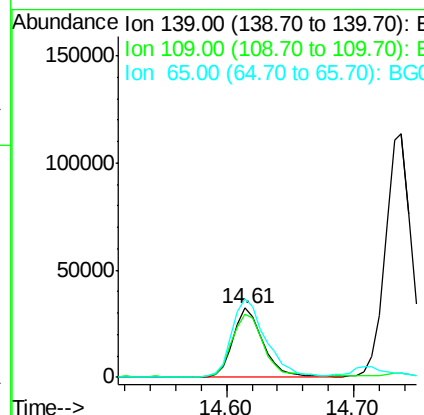
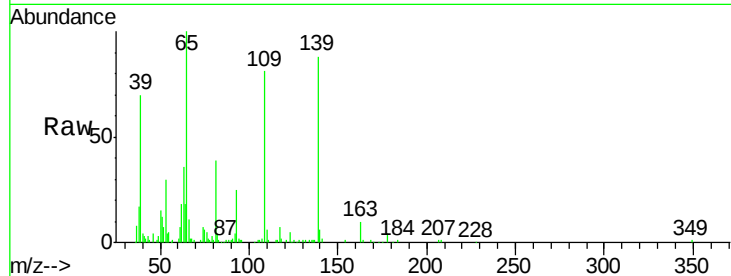




#55  
4-Nitrophenol  
Concen: 39.81 ng  
RT: 14.61 min Scan# 2030  
Delta R.T. 0.01 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

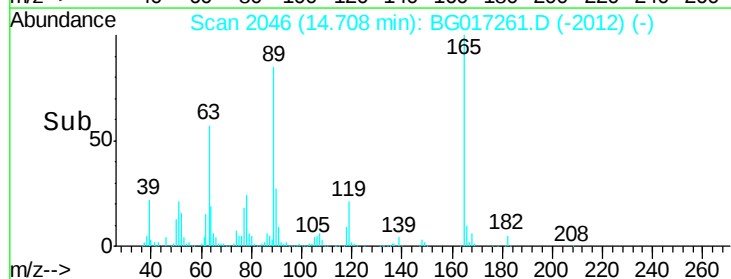
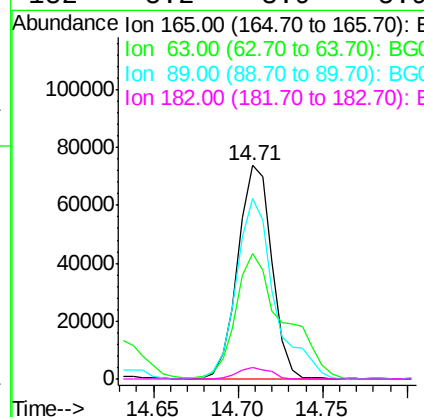
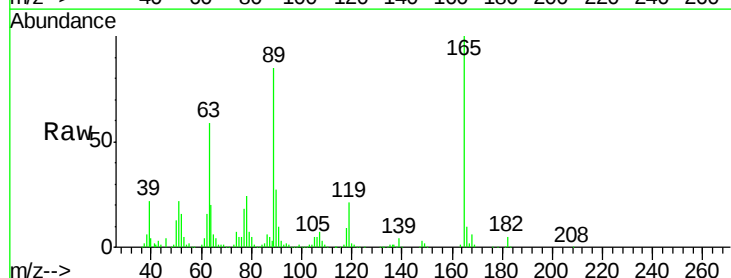
Instrument :  
BNA\_G  
ClientSampleId :  
VE4-11MS

Tgt Ion:139 Resp: 53495  
Ion Ratio Lower Upper  
139 100  
109 92.0 90.5 130.5  
65 113.6 99.9 139.9



#56  
2,4-Dinitrotoluene  
Concen: 49.33 ng  
RT: 14.71 min Scan# 2046  
Delta R.T. 0.00 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

Tgt Ion:165 Resp: 103503  
Ion Ratio Lower Upper  
165 100  
63 58.5 49.0 73.4  
89 84.5 70.1 105.1  
182 5.2 3.9 5.9





#57

Fluorene

Concen: 48.55 ng

RT: 15.38 min Scan# 2161

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

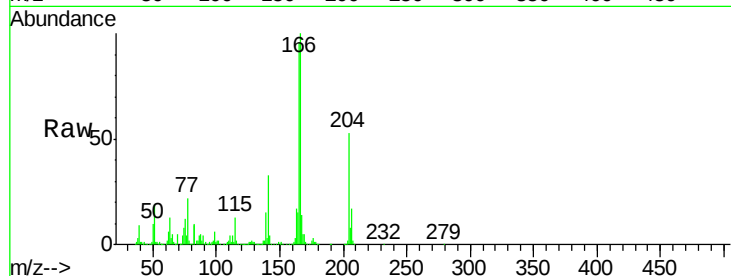
Tgt Ion:166 Resp: 319984

Ion Ratio Lower Upper

166 100

165 96.0 74.2 111.4

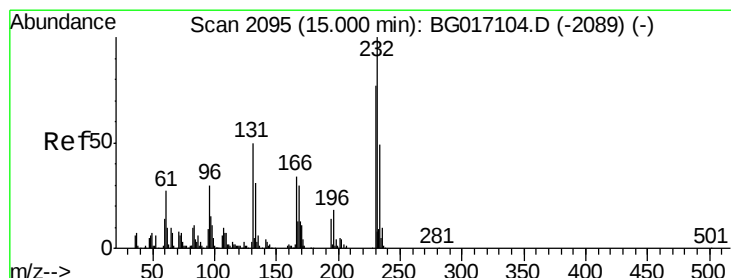
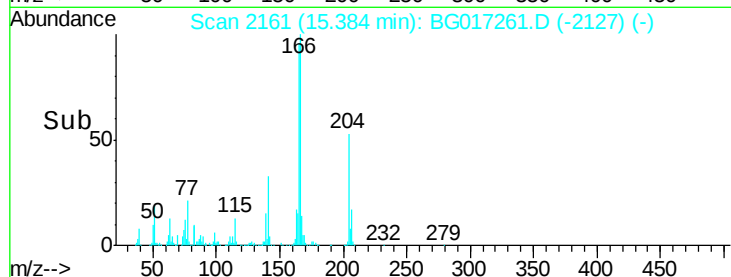
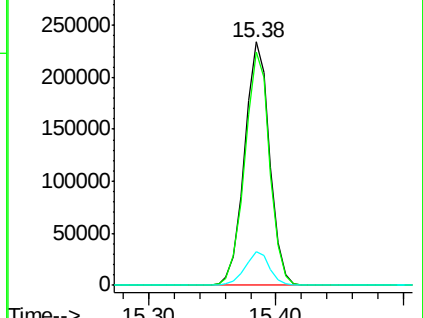
167 13.7 9.8 14.8



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



#58

2,3,4,6-Tetrachlorophenol

Concen: 52.40 ng

RT: 14.97 min Scan# 2090

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Tgt Ion:232 Resp: 86328

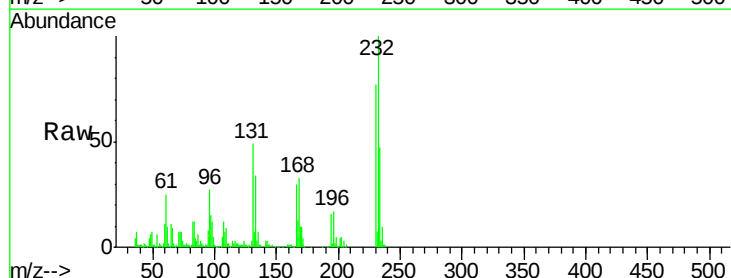
Ion Ratio Lower Upper

232 100

131 50.0 42.7 64.1

130 3.2 3.0 4.4

166 30.2 25.7 38.5

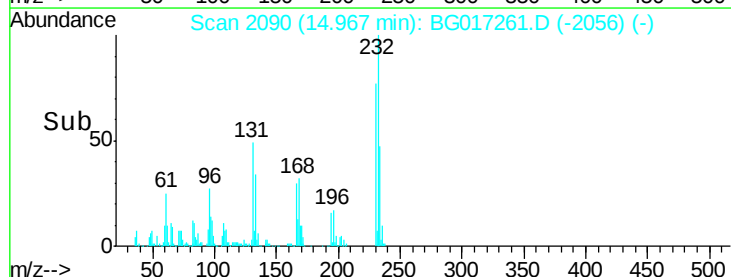
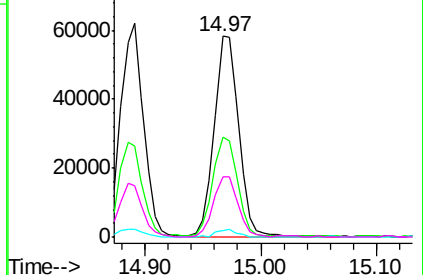


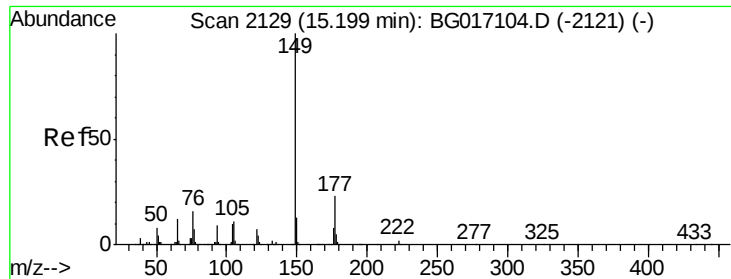
Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E

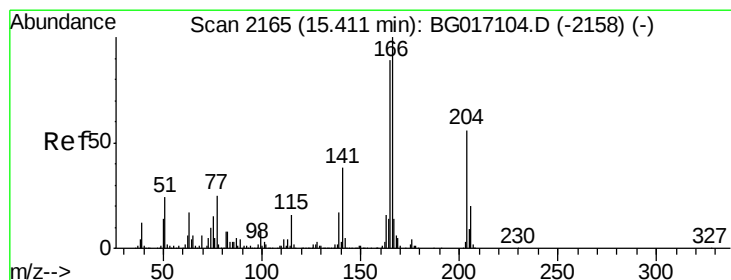
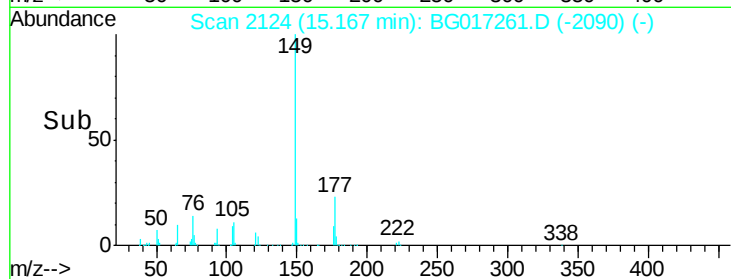
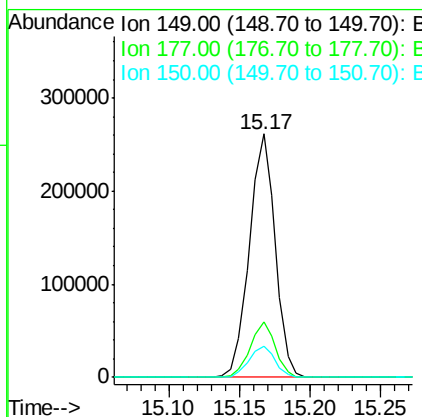
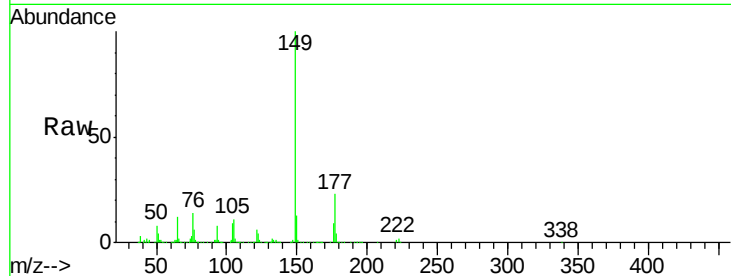




#59  
Diethylphthalate  
Concen: 45.71 ng  
RT: 15.17 min Scan# 2124  
Delta R.T. 0.00 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

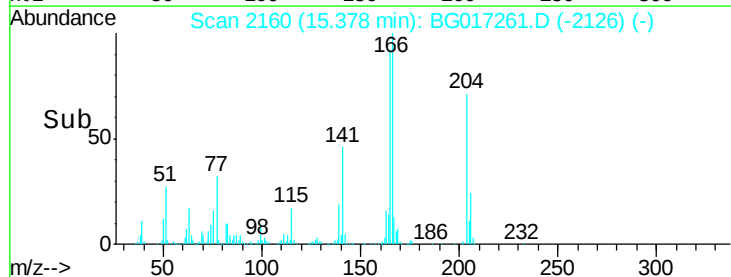
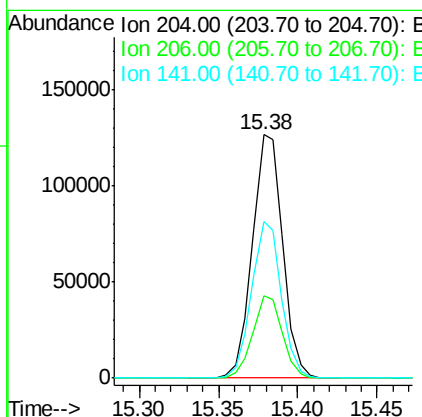
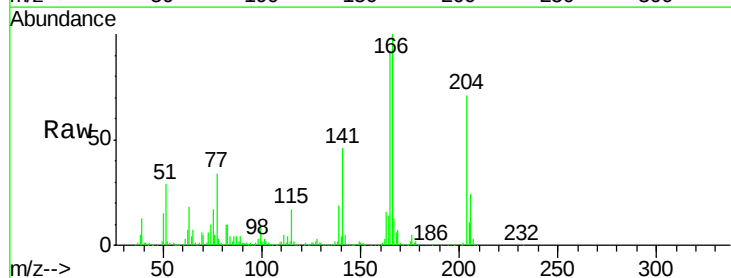
Instrument :  
BNA\_G  
ClientSampleId :  
VE4-11MS

Tgt Ion:149 Resp: 333329  
Ion Ratio Lower Upper  
149 100  
177 22.7 18.3 27.5  
150 12.6 10.4 15.6



#60  
4-Chlorophenyl-phenylether  
Concen: 49.62 ng  
RT: 15.38 min Scan# 2160  
Delta R.T. 0.00 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

Tgt Ion:204 Resp: 167993  
Ion Ratio Lower Upper  
204 100  
206 33.9 28.6 42.8  
141 64.3 54.2 81.2

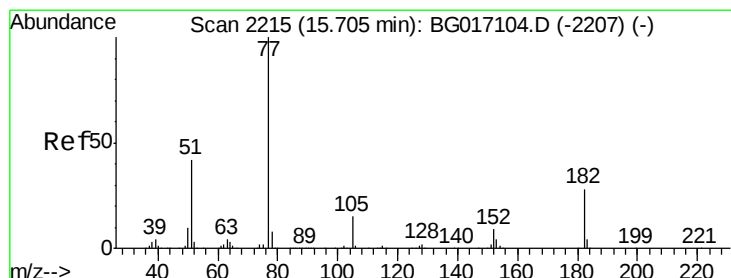
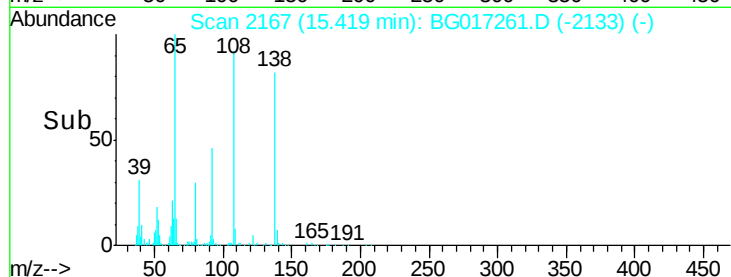
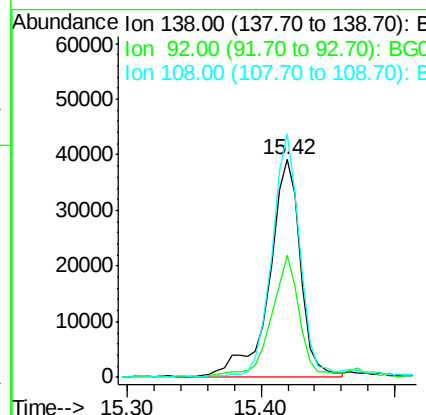
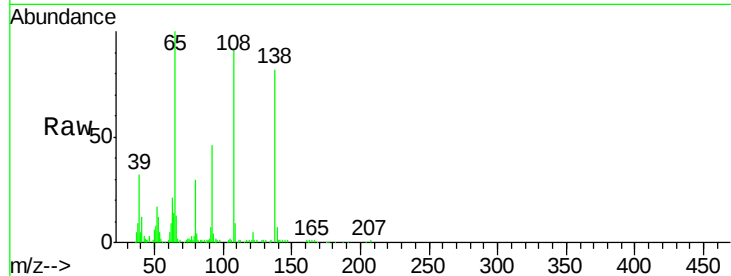




#61  
4-Nitroaniline  
Concen: 34.50 ng  
RT: 15.42 min Scan# 2167  
Delta R.T. 0.00 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

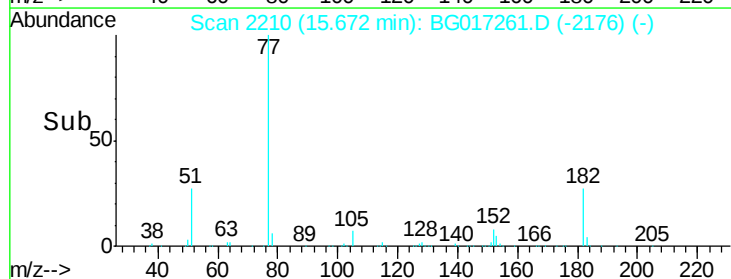
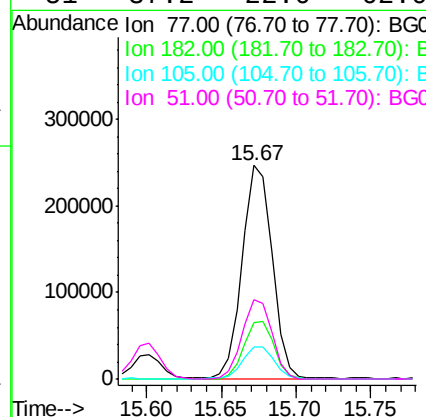
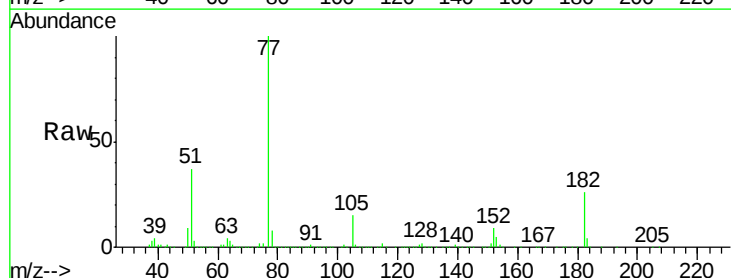
Instrument :  
BNA\_G  
ClientSampleId :  
VE4-11MS

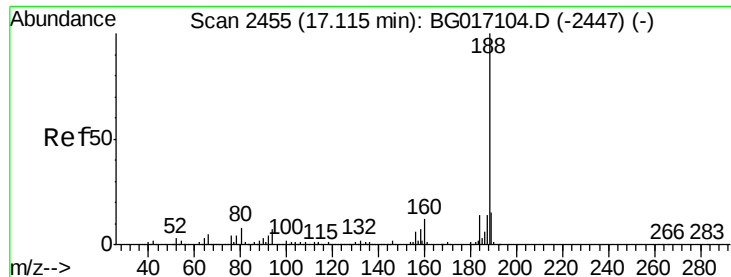
Tgt Ion: 138 Resp: 64237  
Ion Ratio Lower Upper  
138 100  
92 56.0 34.9 74.9  
108 111.8 95.8 135.8



#62  
Azobenzene  
Concen: 49.18 ng  
RT: 15.67 min Scan# 2210  
Delta R.T. 0.00 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

Tgt Ion: 77 Resp: 342626  
Ion Ratio Lower Upper  
77 100  
182 26.5 8.1 48.1  
105 15.2 0.0 34.8  
51 37.2 22.0 62.0

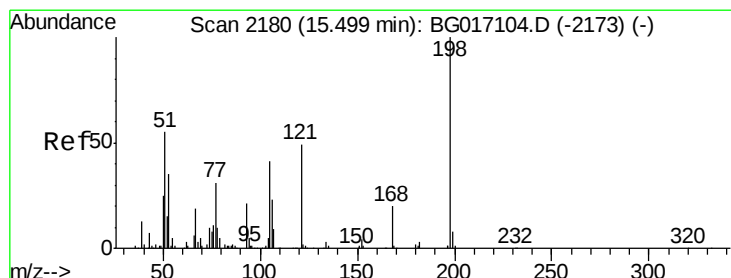
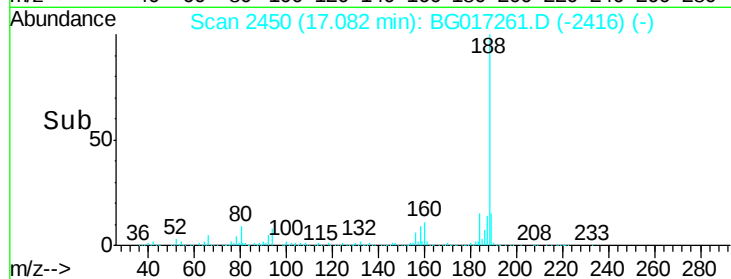
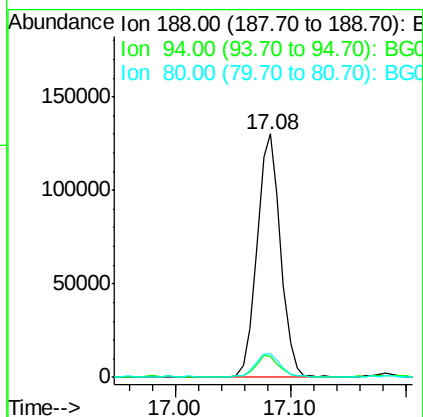
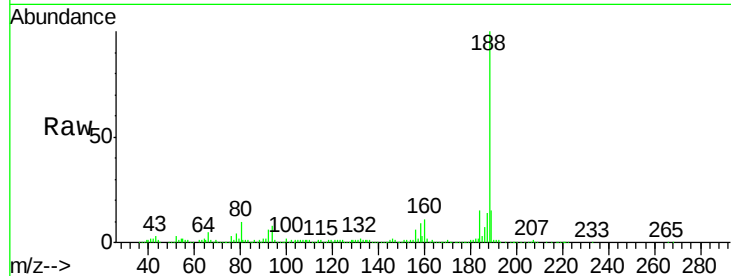




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.08 min Scan# 2450  
Delta R.T. 0.00 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

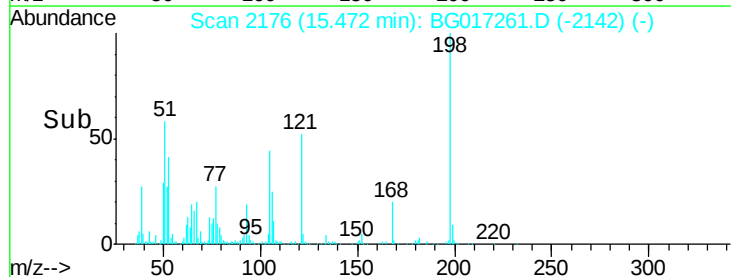
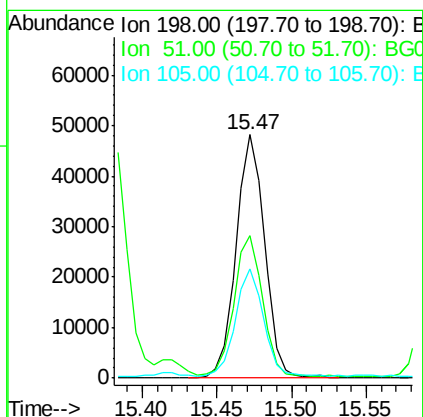
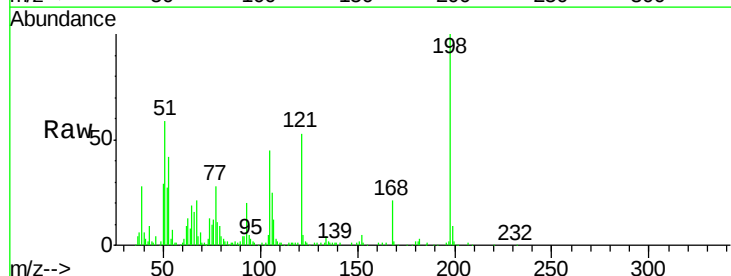
Instrument :  
BNA\_G  
ClientSampleId :  
VE4-11MS

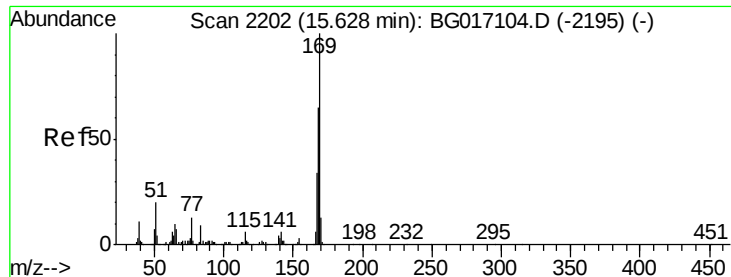
Tgt Ion:188 Resp: 184190  
Ion Ratio Lower Upper  
188 100  
94 8.4 5.8 8.6  
80 9.7 6.5 9.7#



#64  
4,6-Dinitro-2-methylphenol  
Concen: 50.93 ng  
RT: 15.47 min Scan# 2176  
Delta R.T. 0.00 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

Tgt Ion:198 Resp: 64297  
Ion Ratio Lower Upper  
198 100  
51 58.5 39.9 79.9  
105 44.9 22.0 62.0

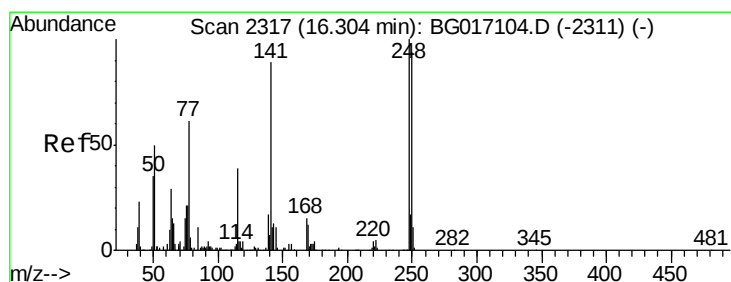
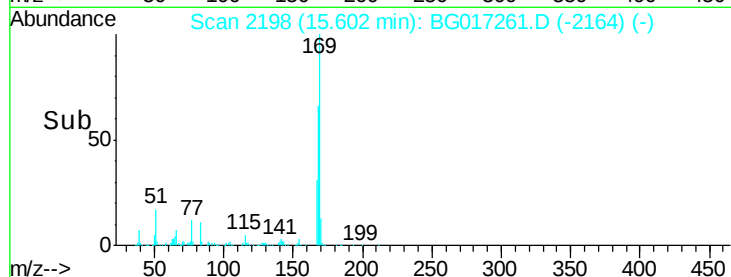
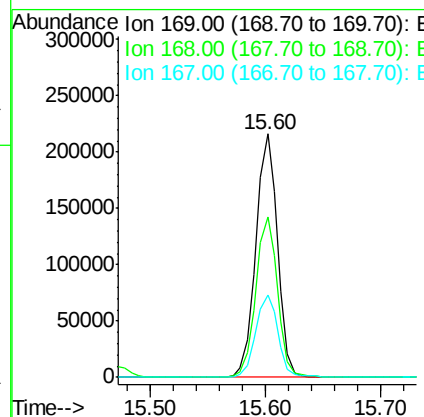
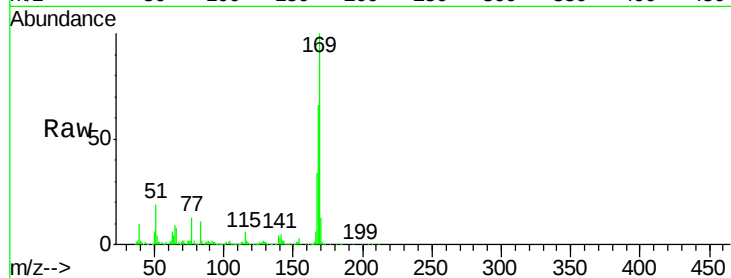




#65  
 n-Nitrosodiphenylamine  
 Concen: 49.80 ng  
 RT: 15.60 min Scan# 2198  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

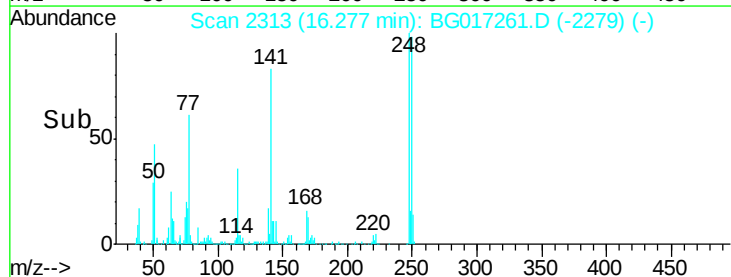
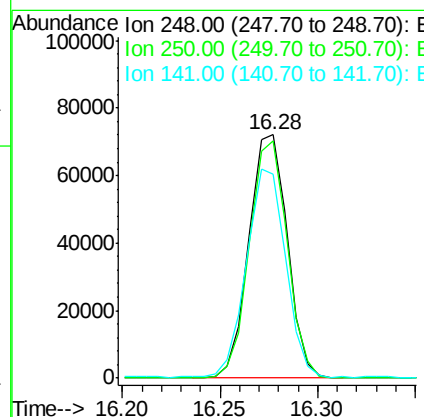
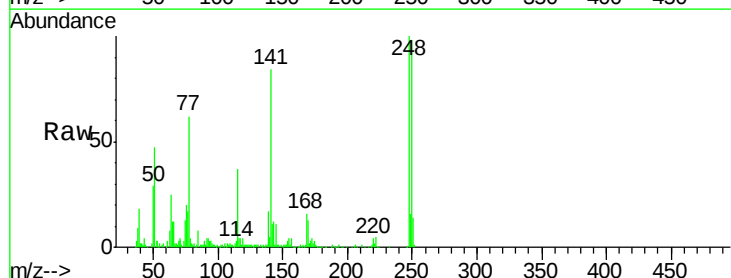
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VE4-11MS

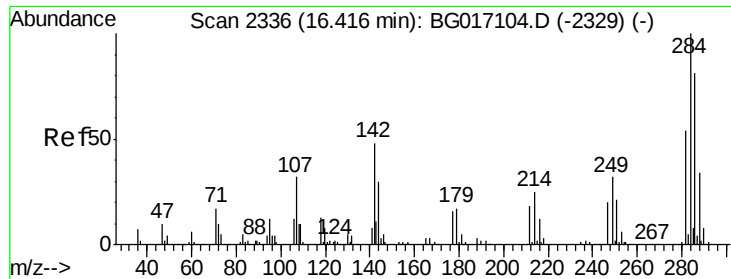
Tgt Ion:169 Resp: 281614  
 Ion Ratio Lower Upper  
 169 100  
 168 65.7 51.7 77.5  
 167 33.7 27.4 41.0



#66  
 4-Bromophenyl-phenylether  
 Concen: 49.09 ng  
 RT: 16.28 min Scan# 2313  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

Tgt Ion:248 Resp: 98605  
 Ion Ratio Lower Upper  
 248 100  
 250 97.5 75.0 112.4  
 141 83.7 71.3 106.9

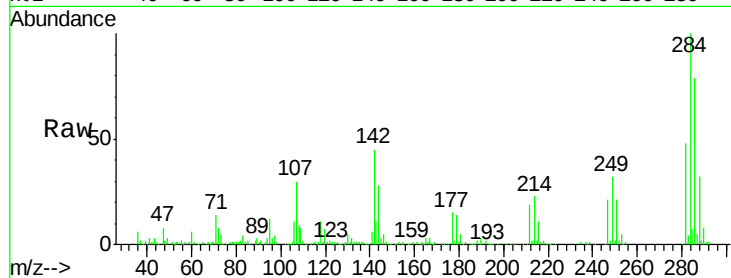




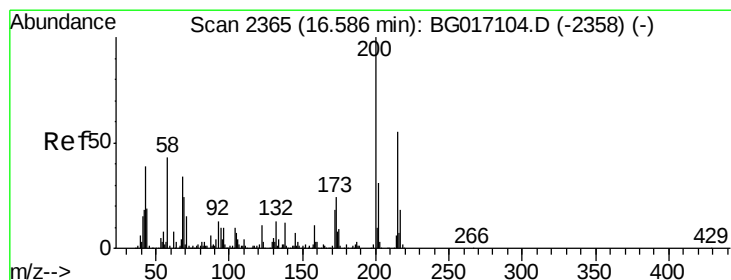
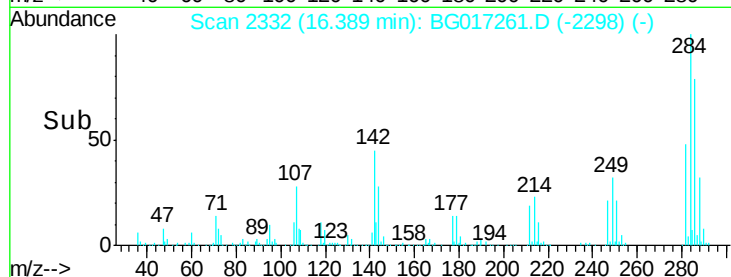
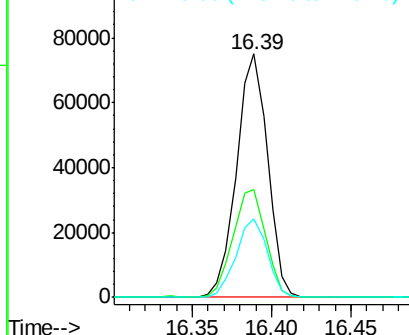
#67  
Hexachlorobenzene  
Concen: 47.93 ng  
RT: 16.39 min Scan# 2332  
Delta R.T. 0.00 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

Instrument :  
BNA\_G  
ClientSampleId :  
VE4-11MS

Tgt Ion: 284 Resp: 101598  
Ion Ratio Lower Upper  
284 100  
142 44.6 38.2 57.2  
249 32.2 25.2 37.8

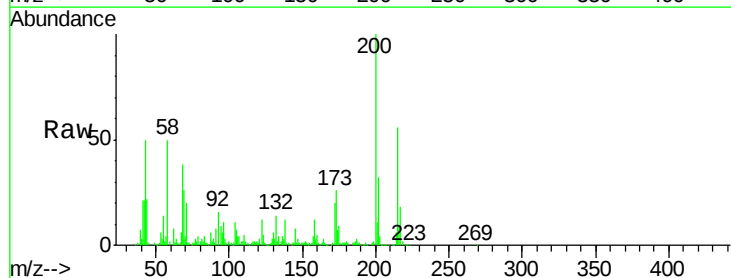


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

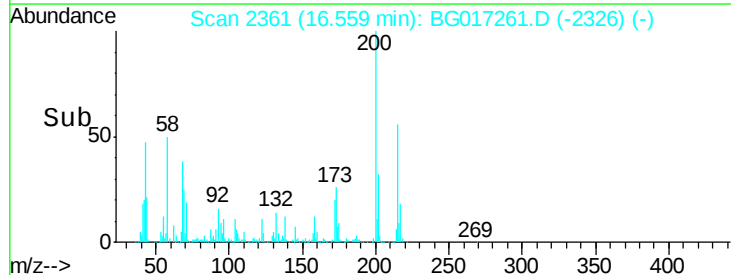
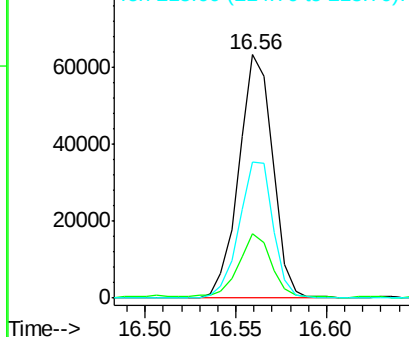


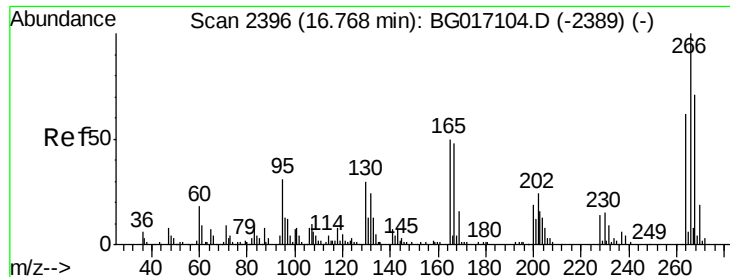
#68  
Atrazine  
Concen: 39.81 ng  
RT: 16.56 min Scan# 2361  
Delta R.T. 0.01 min  
Lab File: BG017261.D  
Acq: 23 May 2015 2:10

Tgt Ion: 200 Resp: 82344  
Ion Ratio Lower Upper  
200 100  
173 26.3 3.7 43.7  
215 55.9 35.5 75.5



Abundance Ion 200.00 (199.70 to 200.70): E  
Ion 173.00 (172.70 to 173.70): E  
Ion 215.00 (214.70 to 215.70): E

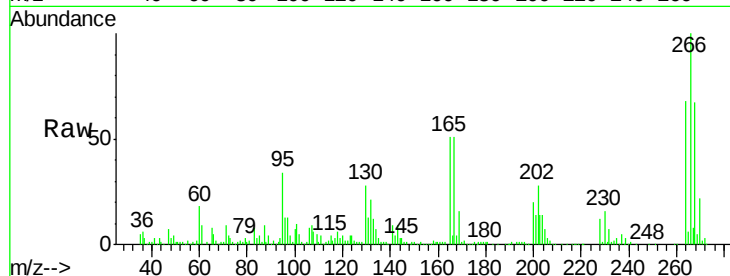




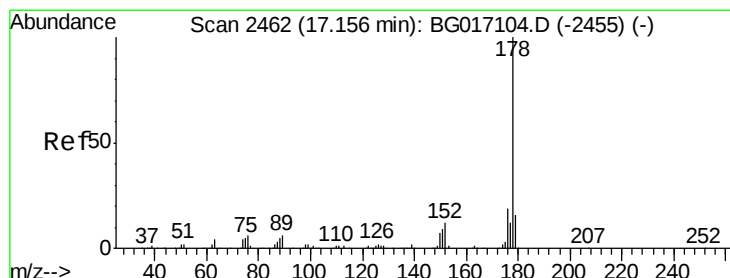
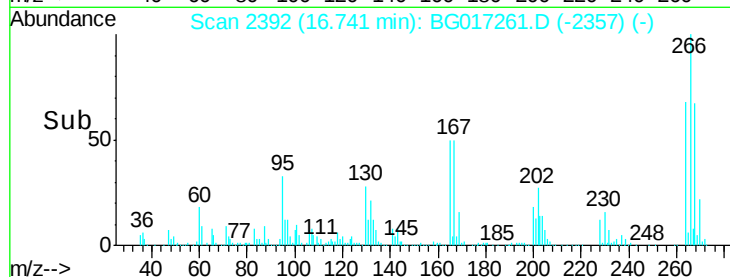
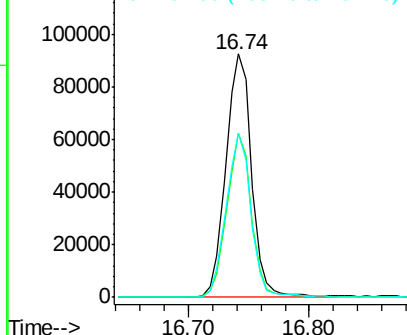
#69  
 Pentachlorophenol  
 Concen: 103.53 ng  
 RT: 16.74 min Scan# 2392  
 Delta R.T. 0.01 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

Instrument :  
 BNA\_G  
 ClientSampleId :  
 VE4-11MS

Tgt Ion: 266 Resp: 137002  
 Ion Ratio Lower Upper  
 266 100  
 268 67.5 56.6 84.8  
 264 67.7 49.4 74.0

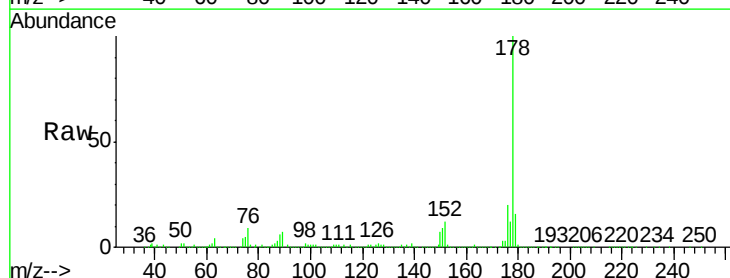


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

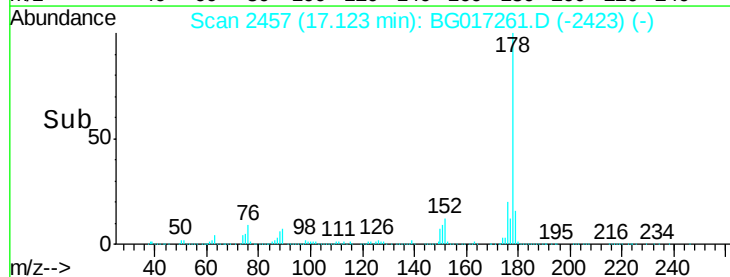
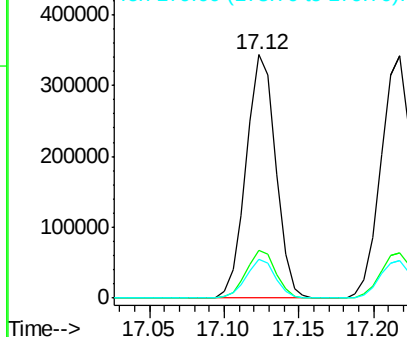


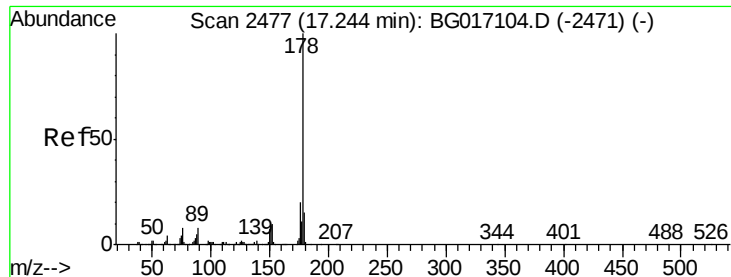
#70  
 Phenanthrene  
 Concen: 49.29 ng  
 RT: 17.12 min Scan# 2457  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

Tgt Ion: 178 Resp: 468114  
 Ion Ratio Lower Upper  
 178 100  
 176 19.5 15.4 23.2  
 179 15.9 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 49.21 ng

RT: 17.22 min Scan# 2473

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

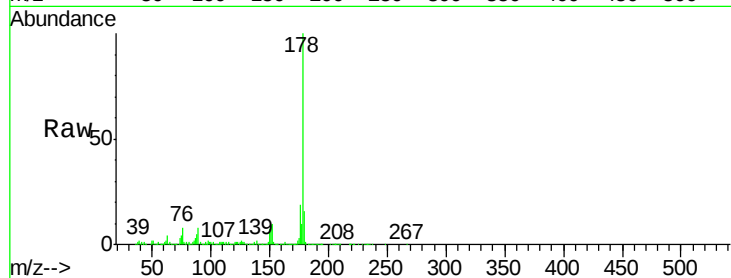
Tgt Ion:178 Resp: 473665

Ion Ratio Lower Upper

178 100

176 18.8 16.3 24.5

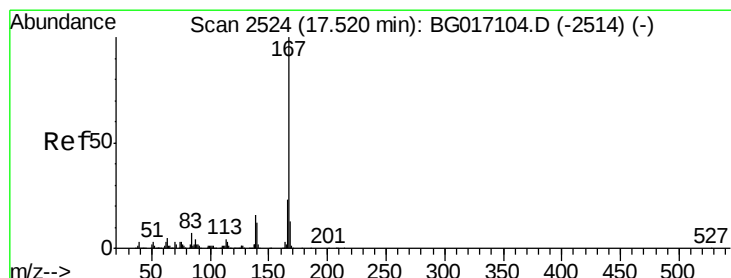
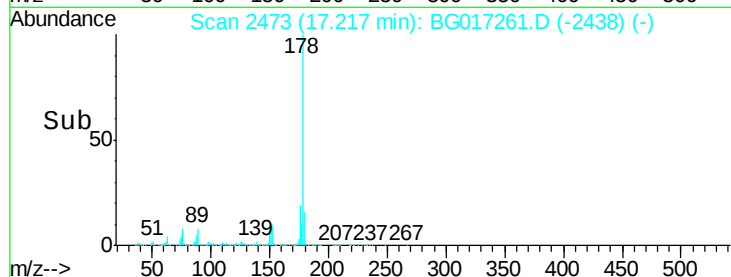
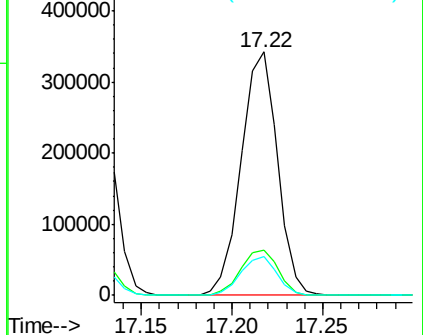
179 15.7 12.1 18.1



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

Carbazole

Concen: 50.42 ng

RT: 17.49 min Scan# 2520

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

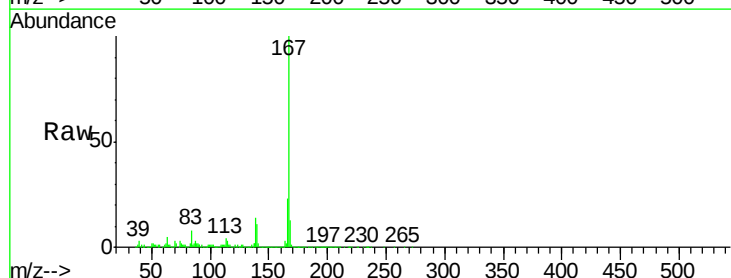
Tgt Ion:167 Resp: 445979

Ion Ratio Lower Upper

167 100

166 22.5 18.4 27.6

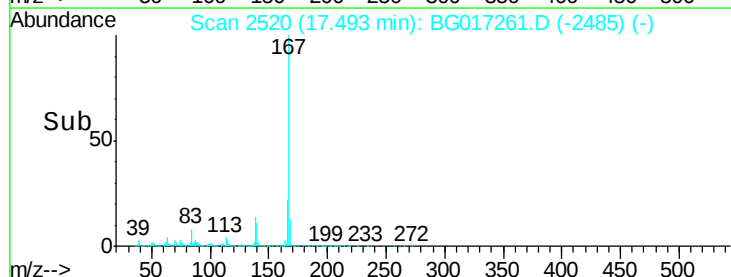
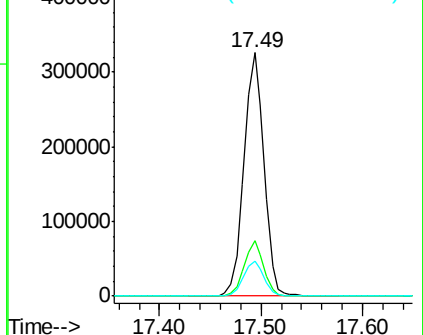
139 14.2 13.0 19.4

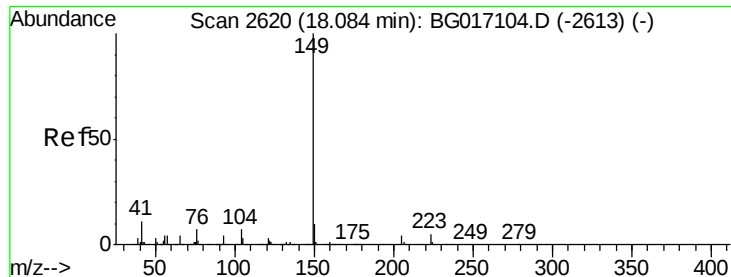


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#73

Di-n-butylphthalate

Concen: 48.57 ng

RT: 18.06 min Scan# 2616

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

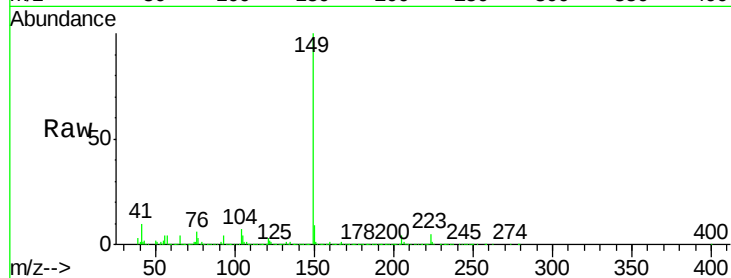
Tgt Ion:149 Resp: 574860

Ion Ratio Lower Upper

149 100

150 9.3 8.2 12.4

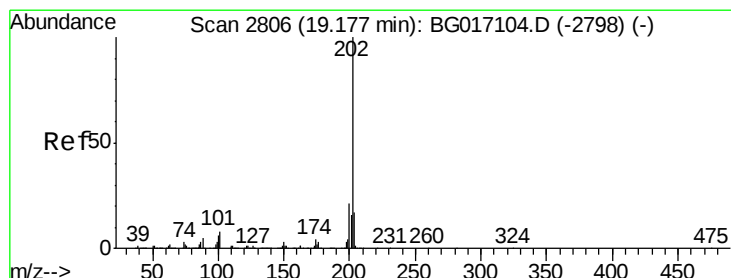
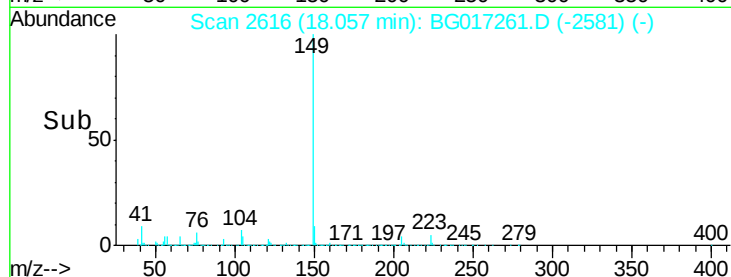
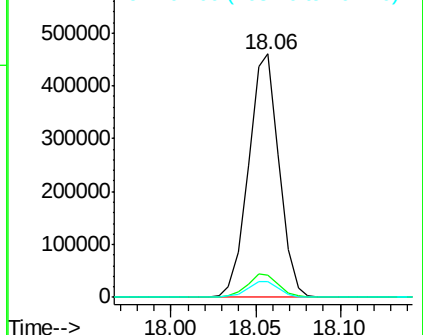
104 6.6 5.7 8.5



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



#74

Fluoranthene

Concen: 47.37 ng

RT: 19.14 min Scan# 2801

Delta R.T. 0.00 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

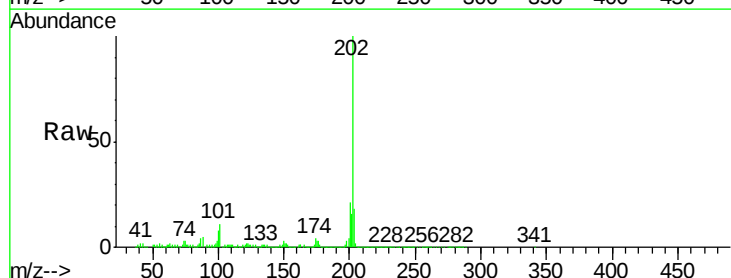
Tgt Ion:202 Resp: 540300

Ion Ratio Lower Upper

202 100

101 10.6 0.0 28.3

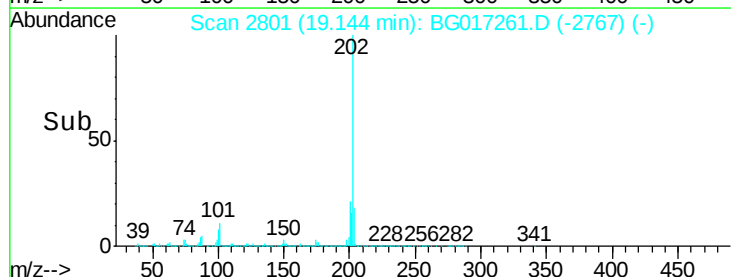
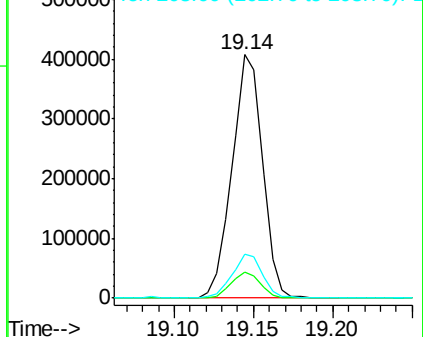
203 18.0 0.0 37.4

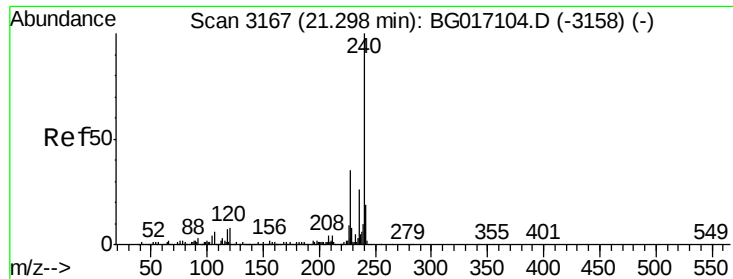


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.27 min Scan# 3163

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

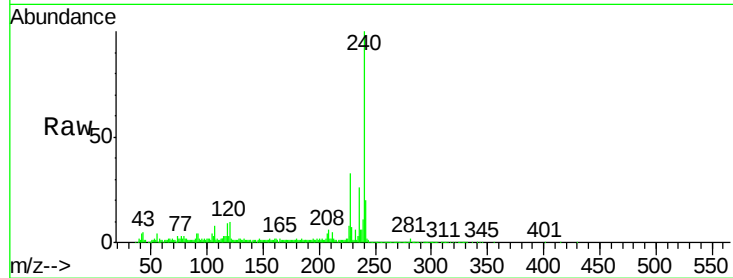
Tgt Ion:240 Resp: 204220

Ion Ratio Lower Upper

240 100

120 10.1 6.0 9.0#

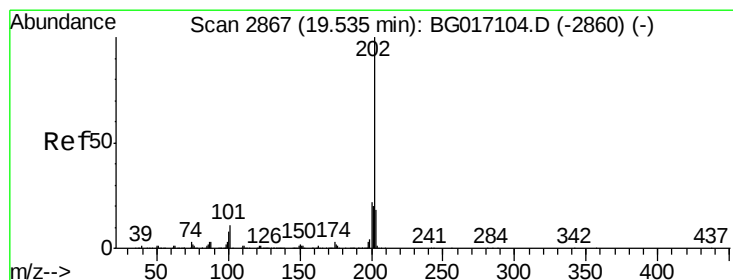
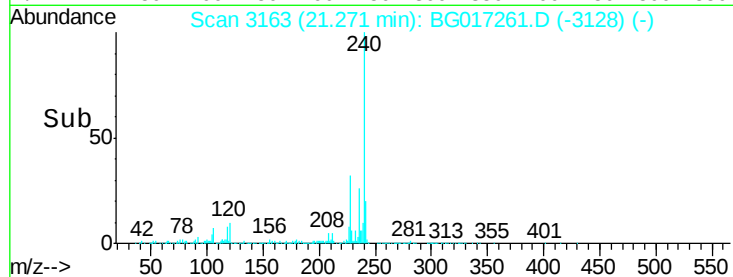
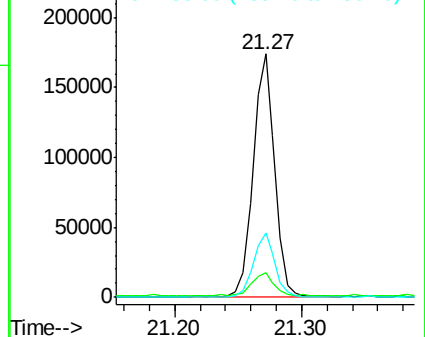
236 26.2 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 45.12 ng

RT: 19.51 min Scan# 2863

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

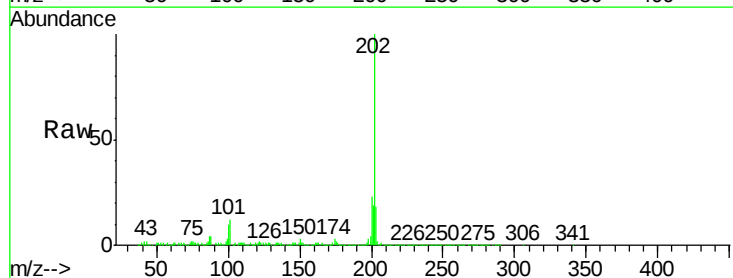
Tgt Ion:202 Resp: 565324

Ion Ratio Lower Upper

202 100

200 22.6 17.8 26.8

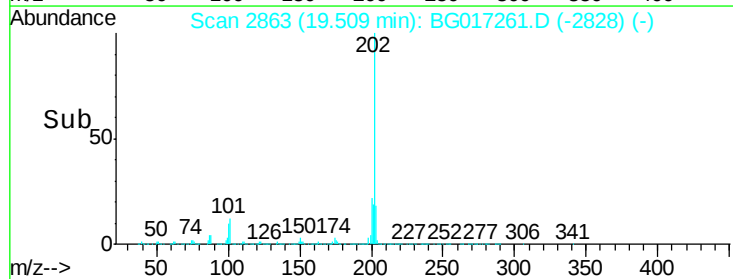
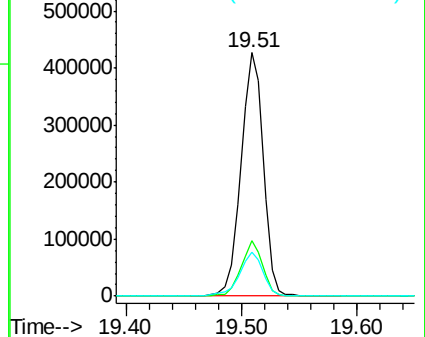
203 18.1 14.4 21.6

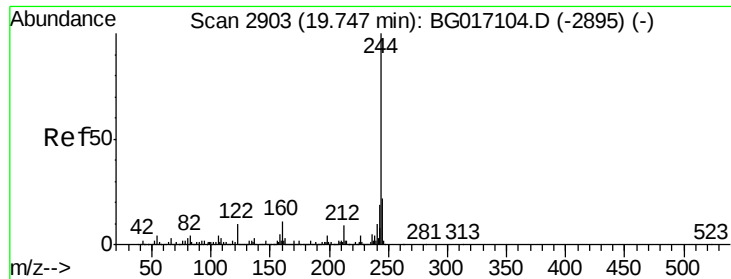


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

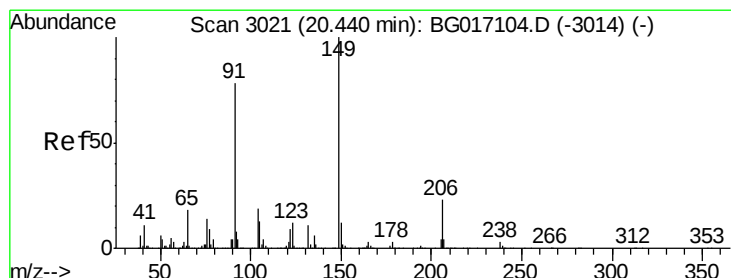
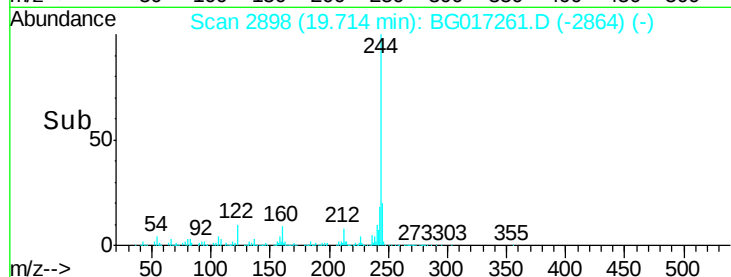
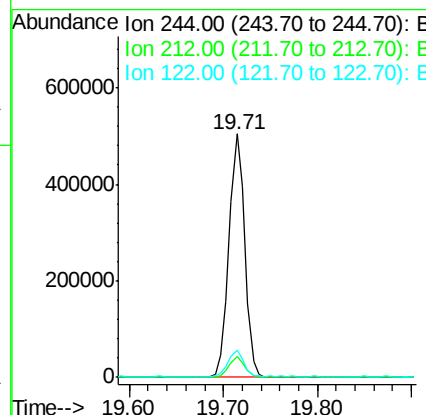
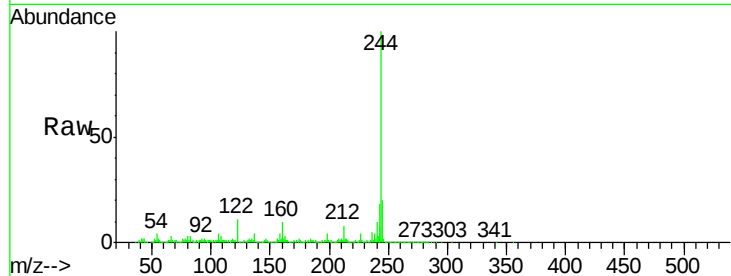




#78  
 Terphenyl-d14  
 Concen: 60.41 ng  
 RT: 19.71 min Scan# 2898  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

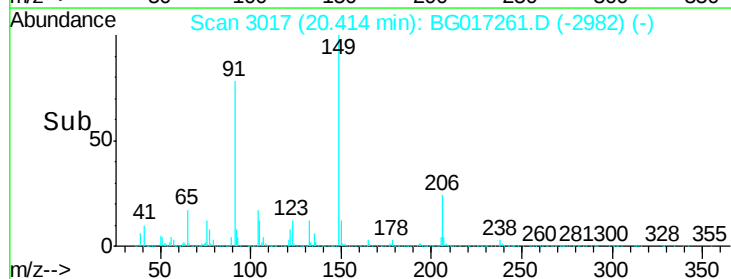
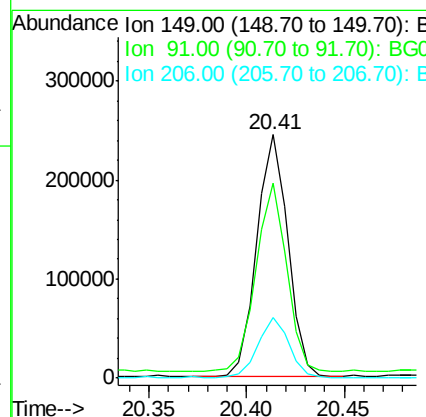
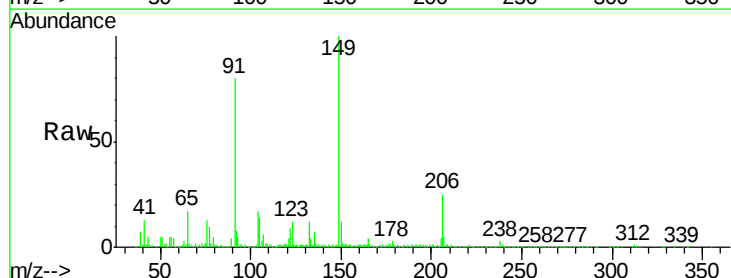
Instrument :  
 BNA\_G  
 ClientSampleId :  
 VE4-11MS

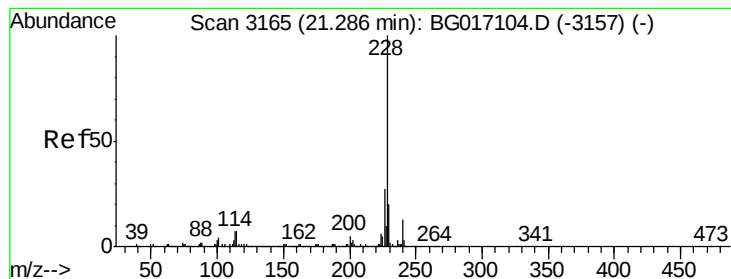
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.4   | 7.0   | 10.4  |
| 122     | 11.1  | 8.4   | 12.6  |



#79  
 Butylbenzylphthalate  
 Concen: 47.32 ng  
 RT: 20.41 min Scan# 3017  
 Delta R.T. 0.01 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 80.0  | 62.0  | 93.0  |
| 206     | 24.7  | 18.6  | 27.8  |





#80

Benzo(a)anthracene

Concen: 48.31 ng

RT: 21.25 min Scan# 3160

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

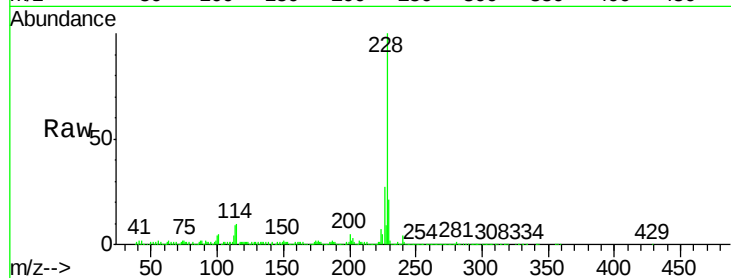
Tgt Ion:228 Resp: 565357

Ion Ratio Lower Upper

228 100

226 26.9 21.7 32.5

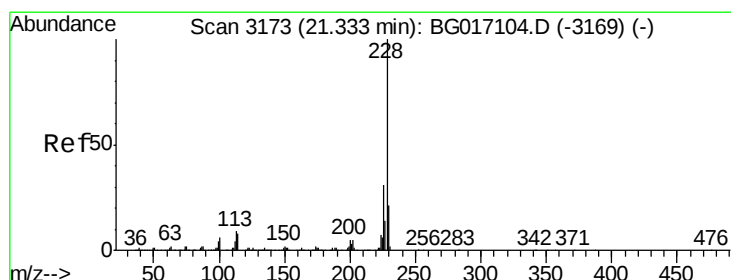
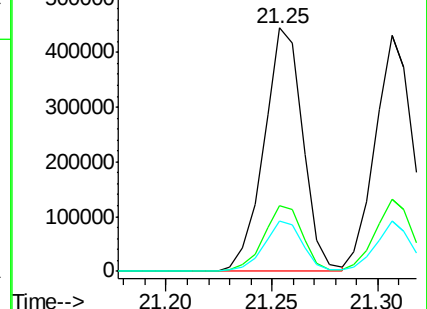
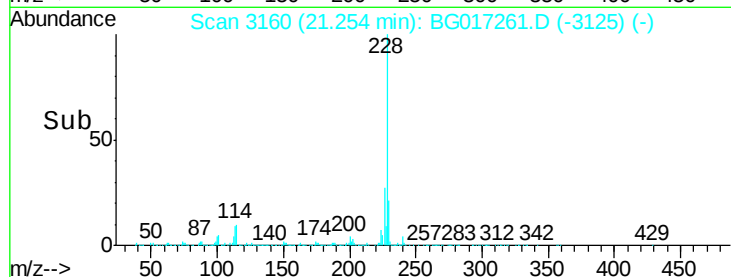
229 20.7 16.1 24.1



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

Chrysene

Concen: 48.55 ng

RT: 21.31 min Scan# 3169

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

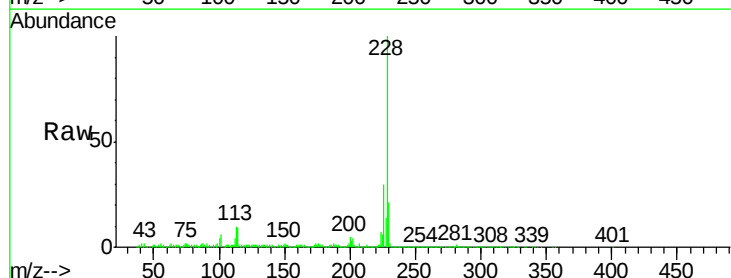
Tgt Ion:228 Resp: 529275

Ion Ratio Lower Upper

228 100

226 30.4 24.8 37.2

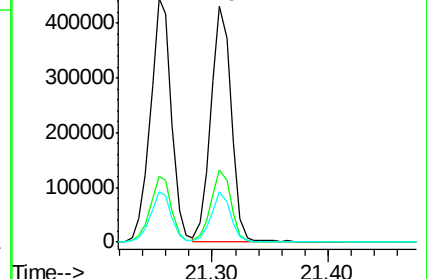
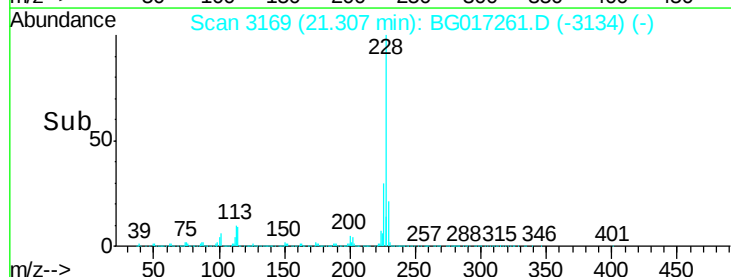
229 21.2 17.0 25.6

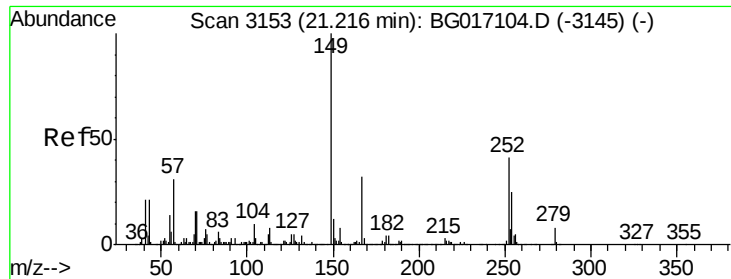


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

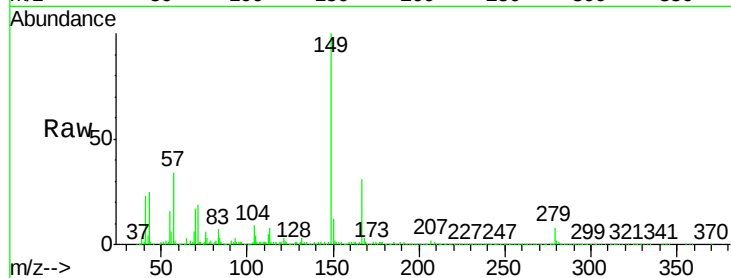




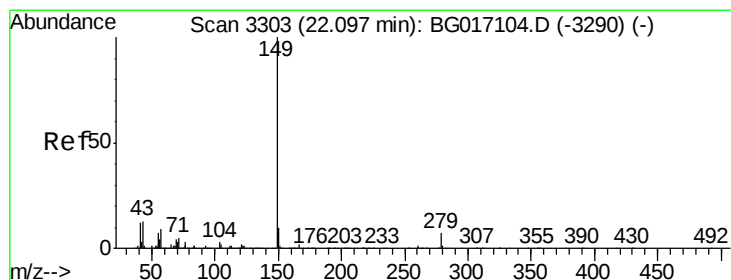
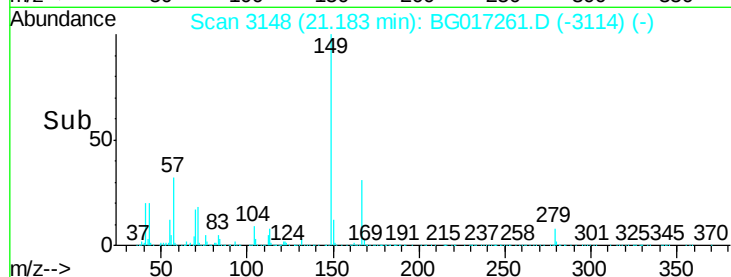
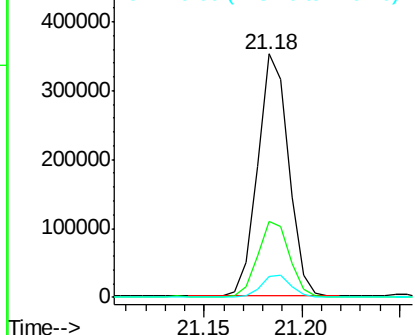
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 47.46 ng  
 RT: 21.18 min Scan# 3148  
 Delta R.T. 0.00 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

Instrument :  
 BNA\_G  
 ClientSampleId :  
 VE4-11MS

Tgt Ion:149 Resp: 384261  
 Ion Ratio Lower Upper  
 149 100  
 167 31.0 25.4 38.2  
 279 8.4 6.8 10.2

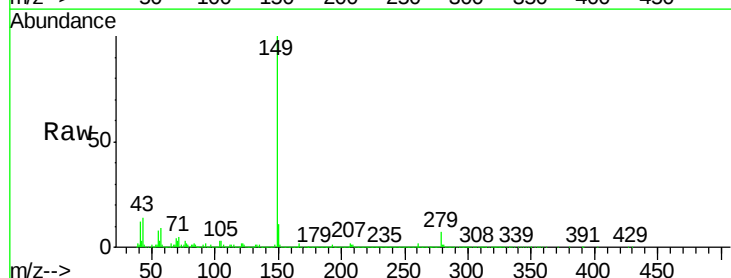


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

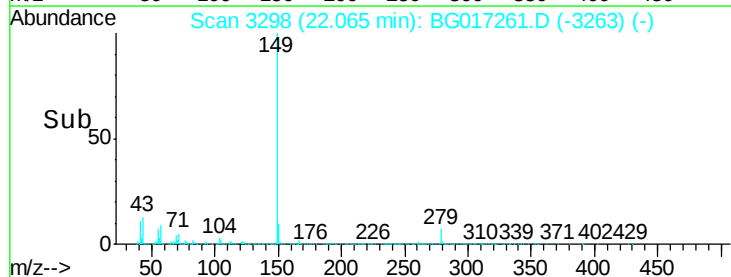
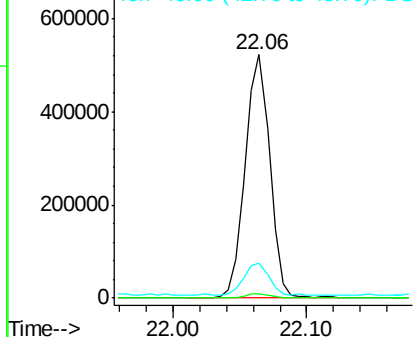


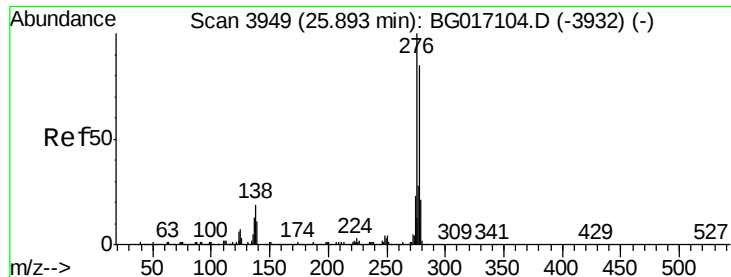
#84  
 Di-n-octyl phthalate  
 Concen: 48.60 ng  
 RT: 22.06 min Scan# 3298  
 Delta R.T. 0.01 min  
 Lab File: BG017261.D  
 Acq: 23 May 2015 2:10

Tgt Ion:149 Resp: 655149  
 Ion Ratio Lower Upper  
 149 100  
 167 1.9 1.4 2.0  
 43 13.6 10.9 16.3



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): BGO





#85

Indeno(1,2,3-cd)pyrene

Concen: 47.77 ng

RT: 25.83 min Scan# 3939

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

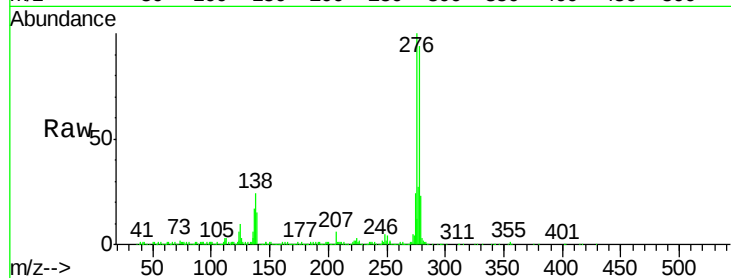
Tgt Ion:276 Resp: 623121

Ion Ratio Lower Upper

276 100

138 21.3 16.0 24.0

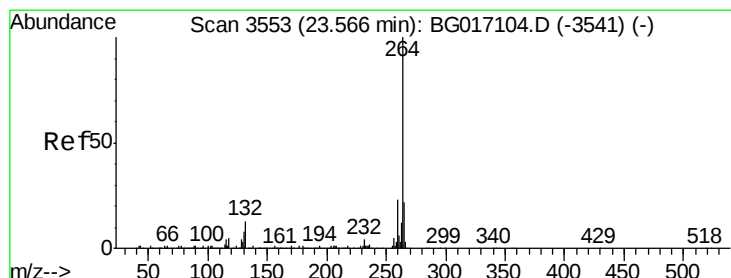
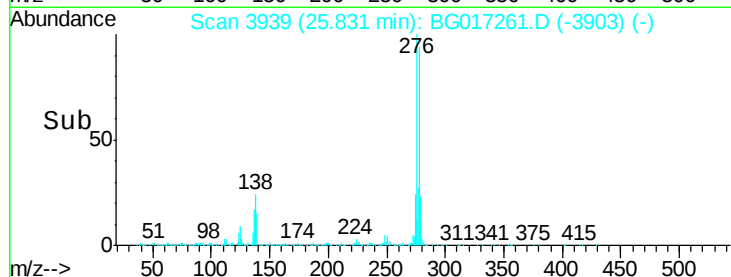
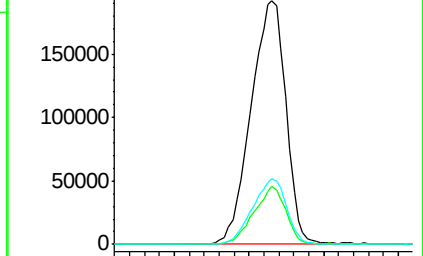
277 26.2 20.9 31.3



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 23.52 min Scan# 3546

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

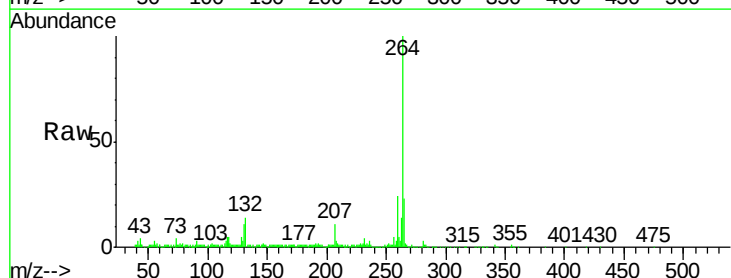
Tgt Ion:264 Resp: 197537

Ion Ratio Lower Upper

264 100

260 23.7 18.0 27.0

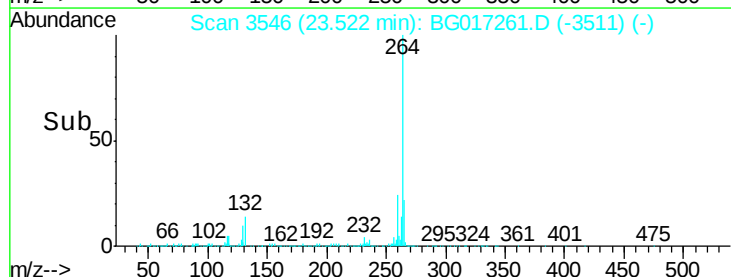
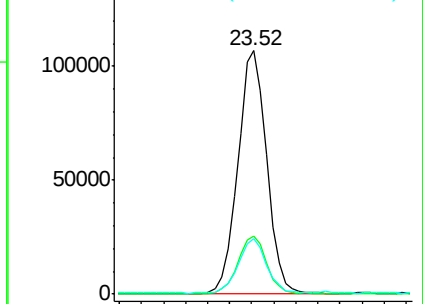
265 23.0 17.4 26.0

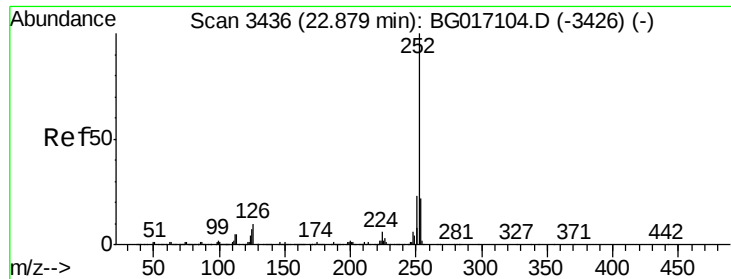


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 47.95 ng

RT: 22.85 min Scan# 3431

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

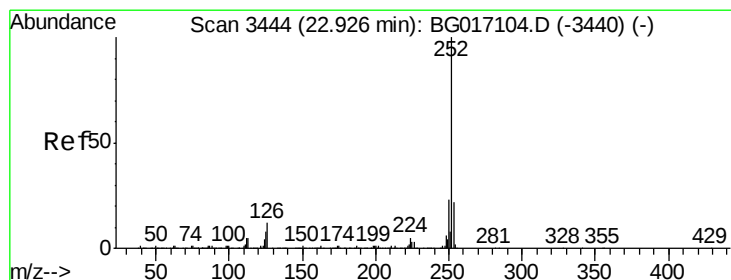
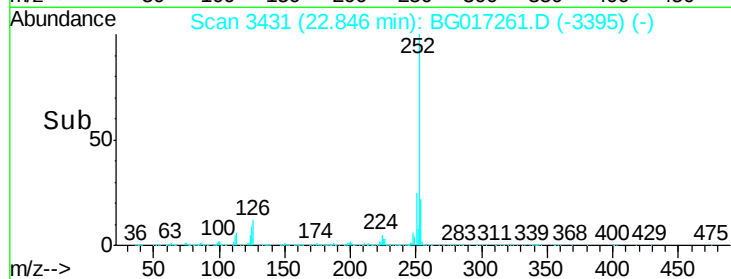
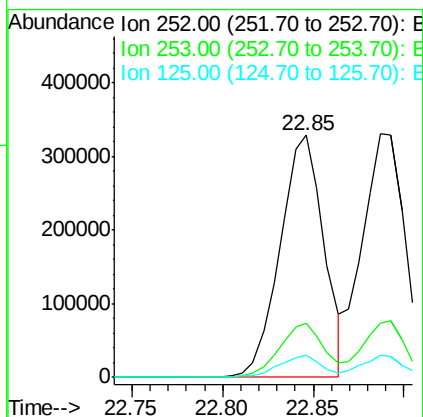
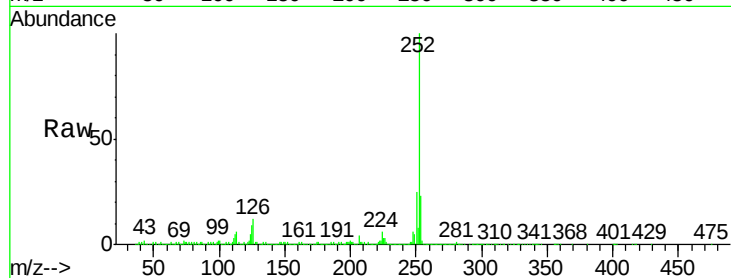
Tgt Ion:252 Resp: 552193

Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.2

125 9.0 5.9 8.9#



#88

Benzo(k)fluoranthene

Concen: 49.56 ng

RT: 22.89 min Scan# 3438

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

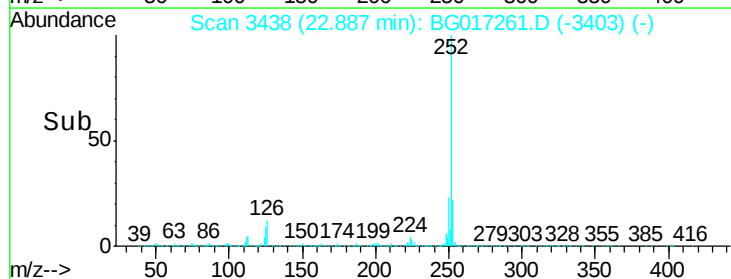
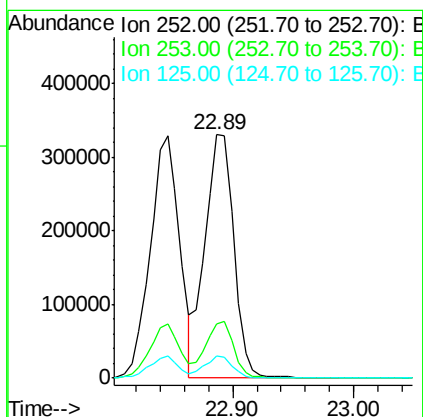
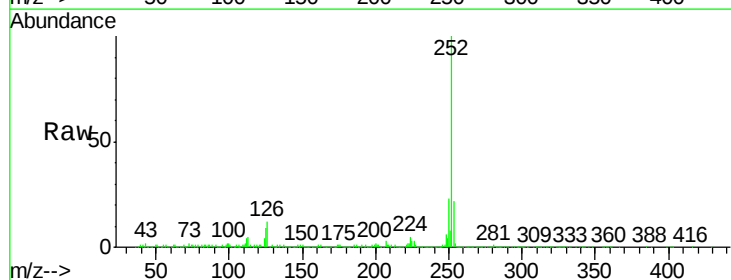
Tgt Ion:252 Resp: 541853

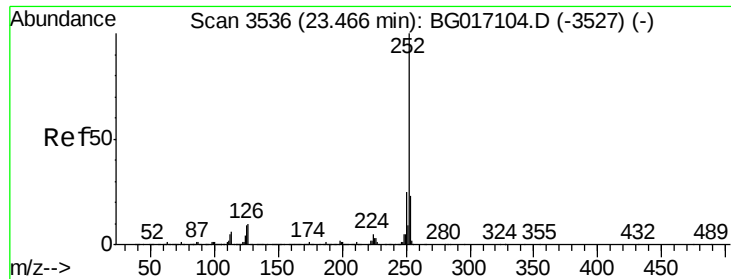
Ion Ratio Lower Upper

252 100

253 22.4 17.8 26.6

125 9.1 6.4 9.6





#89

Benzo(a)pyrene

Concen: 49.96 ng

RT: 23.43 min Scan# 3530

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

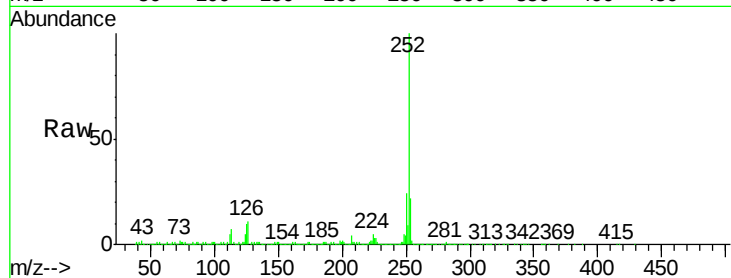
Tgt Ion:252 Resp: 528293

Ion Ratio Lower Upper

252 100

253 21.8 18.4 27.6

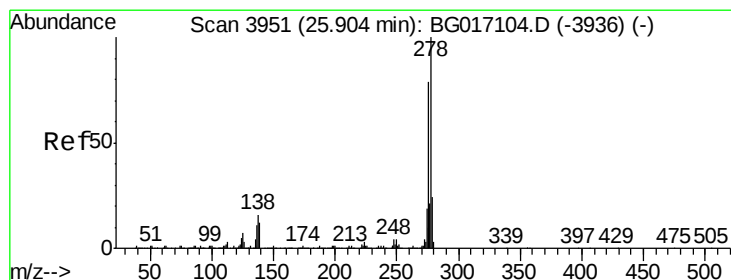
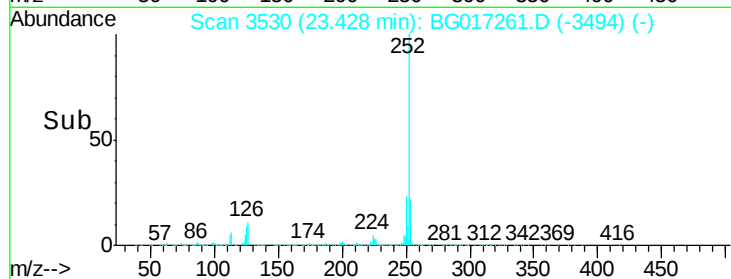
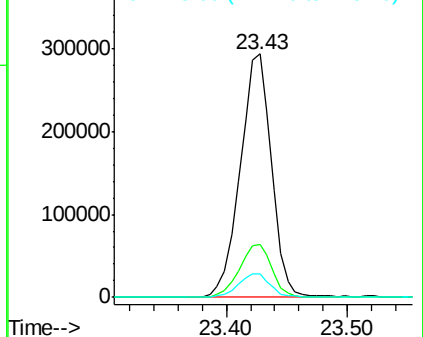
125 9.5 7.2 10.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 48.40 ng

RT: 25.84 min Scan# 3941

Delta R.T. 0.02 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

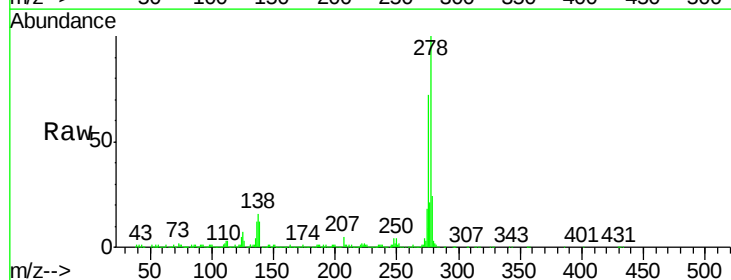
Tgt Ion:278 Resp: 525458

Ion Ratio Lower Upper

278 100

139 12.4 9.4 14.2

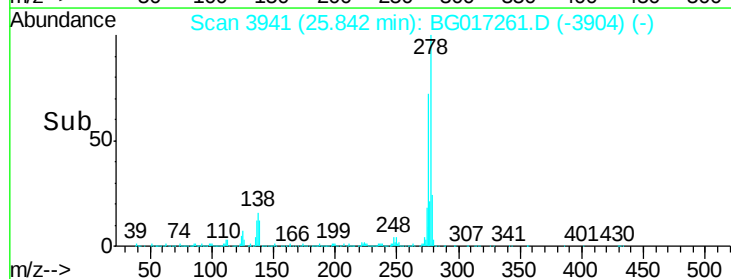
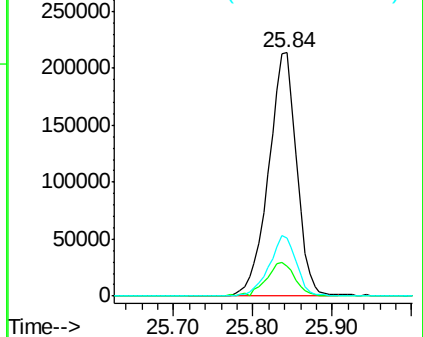
279 23.9 19.1 28.7

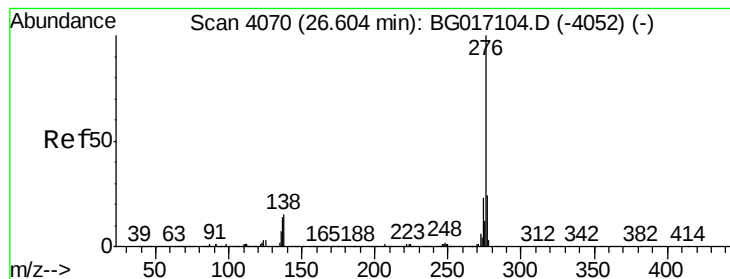


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 48.93 ng

RT: 26.54 min Scan# 4059

Delta R.T. 0.01 min

Lab File: BG017261.D

Acq: 23 May 2015 2:10

Instrument :

BNA\_G

ClientSampleId :

VE4-11MS

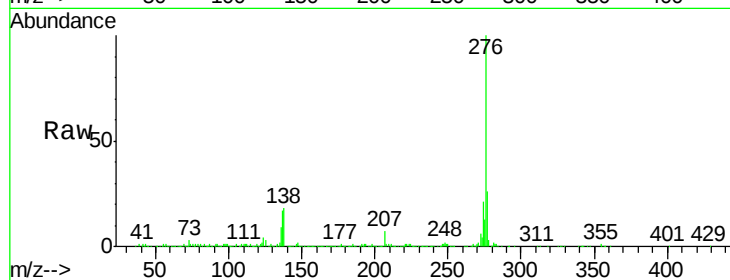
Tgt Ion: 276 Resp: 499962

Ion Ratio Lower Upper

276 100

277 25.6 18.9 28.3

138 17.5 11.8 17.8



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

