

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV092318\  
 Data File : VV007754.D  
 Acq On : 22 Sep 2018 23:41  
 Operator : SY/MD  
 Sample : J5012-09 50X  
 Misc : 5.0 mL/MSVOA\_V/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C08M9

Quant Time: Sep 24 02:37:00 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092318WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Sep 24 02:35:10 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 183058   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 176871   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 94708    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 40979    | 41.19    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 82.38% |
| 7) Chloroethane-d5             | 1.59    | 69    | 41179    | 45.55    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 91.10% |
| 11) 1,1-Dichloroethene-d2      | 2.14    | 63    | 78476    | 33.46    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 66.92% |
| 21) 2-Butanone-d5              | 3.95    | 46    | 60969    | 92.79    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 92.79% |
| 24) Chloroform-d               | 4.41    | 84    | 92989    | 43.65    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.30% |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 63667    | 46.86    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.72% |
| 32) Benzene-d6                 | 5.11    | 84    | 185776   | 45.70    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.40% |
| 36) 1,2-Dichloropropane-d6     | 6.13    | 67    | 56049    | 46.68    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.36% |
| 41) Toluene-d8                 | 7.36    | 98    | 192505   | 45.31    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.62% |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 21398    | 35.35    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.70% |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 46715    | 88.36    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 88.36% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 83493    | 44.55    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 89.10% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 92139    | 47.29    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.58% |

## Target Compounds

|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 9) Trichlorofluoromethane      | 2.13  | 101 | 903    | 0.370 ug/L # | 29     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13  | 101 | 903    | 0.652 ug/L # | 14     |
| 12) 1,1-Dichloroethene         | 2.14  | 96  | 747    | 0.615 ug/L # | 1      |
| 16) Methylene chloride         | 2.54  | 84  | 511    | 0.384 ug/L # | 85     |
| 33) Benzene                    | 5.15  | 78  | 44347  | 10.467 ug/L  | 100    |
| 37) 1,2-Dichloropropane        | 6.13  | 63  | 6770   | 6.347 ug/L # | 86     |
| 39) cis-1,3-Dichloropropene    | 7.04  | 75  | 1795   | 1.047 ug/L   | 86     |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75  | 1298   | 0.797 ug/L # | 75     |
| 51) Chlorobenzene              | 8.93  | 112 | 88664  | 24.510 ug/L  | 98     |
| 59) 1,2,3-Trichloropropane     | 11.23 | 75  | 2597   | 1.722 ug/L # | 43     |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146 | 9595   | 3.195 ug/L   | 98     |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146 | 103843 | 33.339 ug/L  | 100    |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146 | 233570 | 76.924 ug/L  | 100    |
| 67) 1,3,5-Trichlorobenzene     | 13.31 | 180 | 30885  | 12.246 ug/L  | 97     |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180 | 30885  | 13.645 ug/L  | 97     |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180 | 10457  | 4.571 ug/L   | 99     |

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MSVOA\_V  
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C08M9

Quant Time: Sep 24 02:37:00 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092318WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Sep 24 02:35:10 2018  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

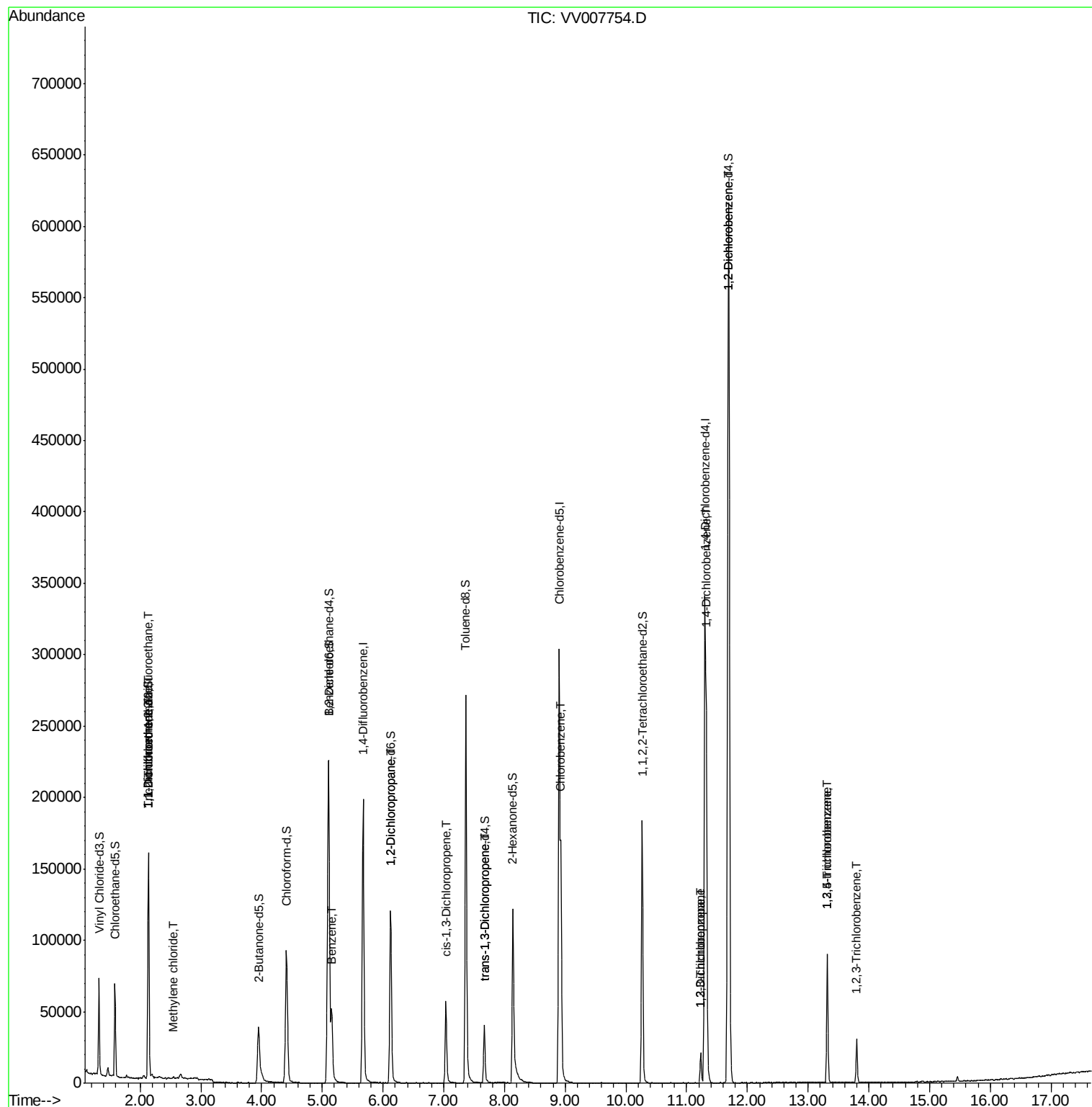
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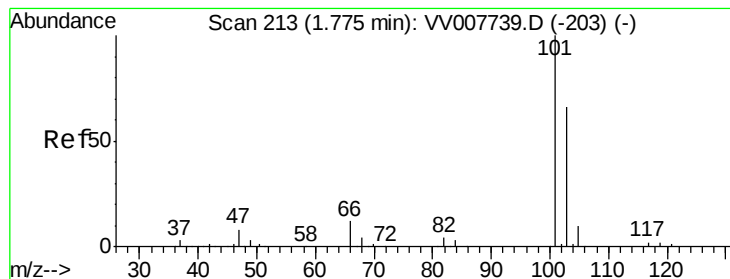
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV092318\  
Data File : VV007754.D  
Acq On : 22 Sep 2018 23:41  
Operator : SY/MD  
Sample : J5012-09 50X  
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Quant Time: Sep 24 02:37:00 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092318WMA.M  
Quant Title : VOC Analysis  
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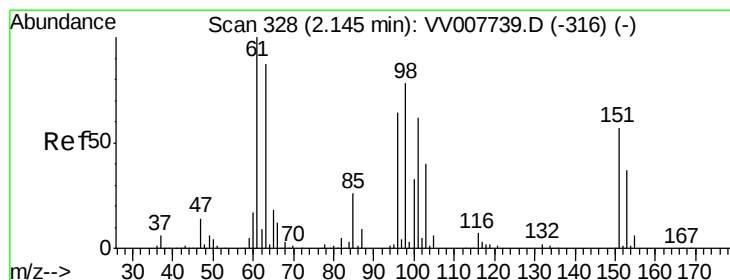
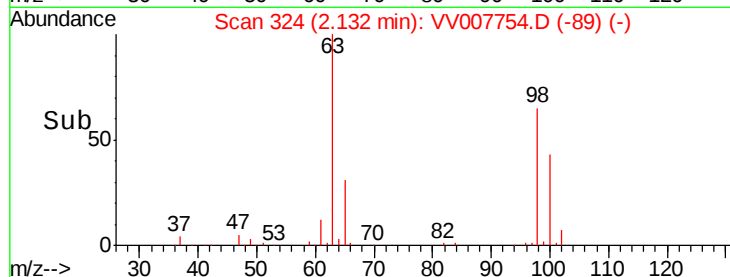
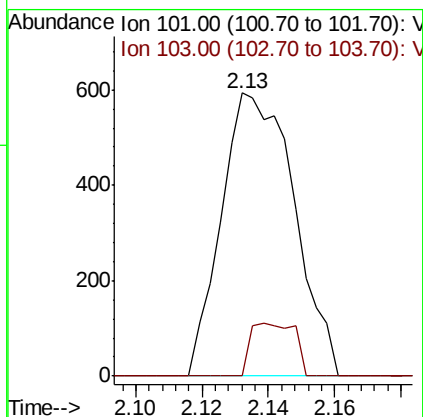
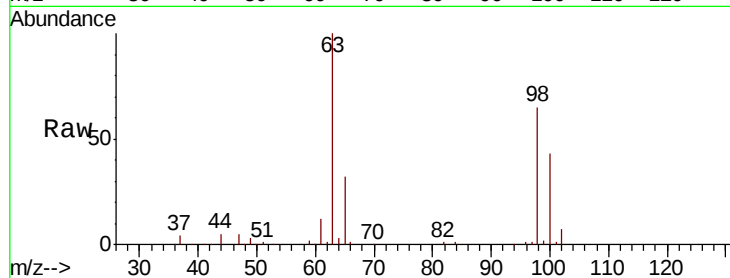


#9

Trichlorofluoromethane  
 Concen: 0.370 ug/L  
 RT: 2.13 min Scan# 324  
 Delta R.T. 0.36 min  
 Lab File: VV007754.D  
 Acq: 22 Sep 2018 23:41

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C08M9

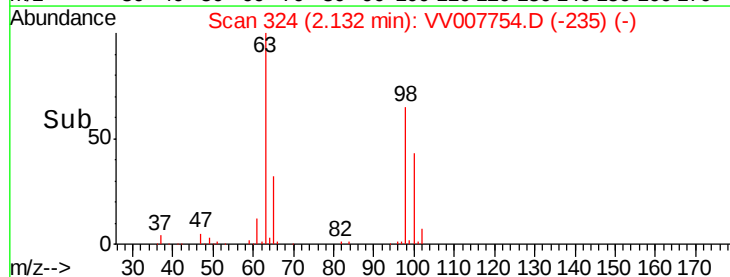
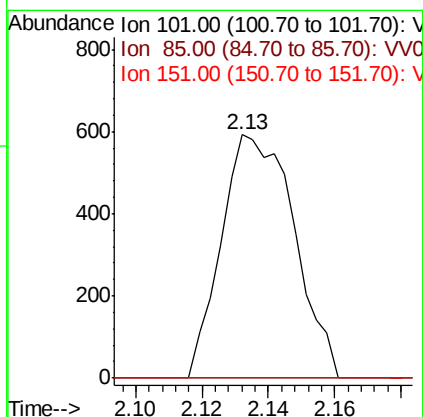
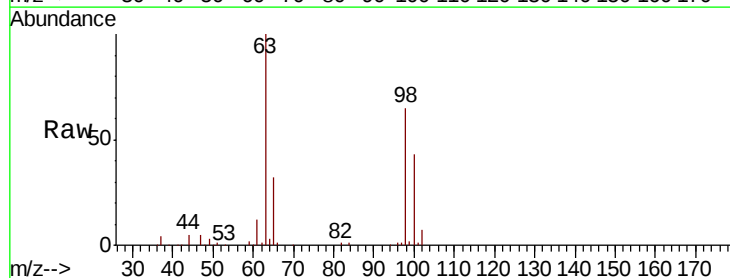
Tgt Ion:101 Resp: 903  
 Ion Ratio Lower Upper  
 101 100  
 103 9.0 51.4 77.2#

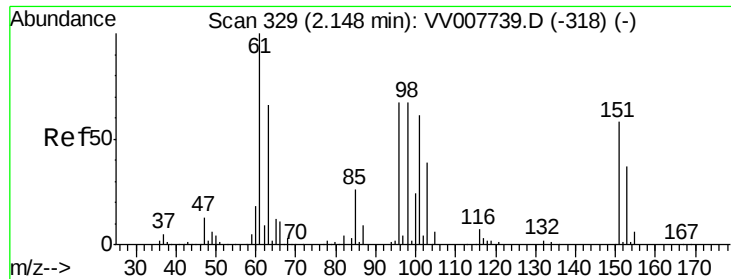


#10

1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.652 ug/L  
 RT: 2.13 min Scan# 324  
 Delta R.T. -0.01 min  
 Lab File: VV007754.D  
 Acq: 22 Sep 2018 23:41

Tgt Ion:101 Resp: 903  
 Ion Ratio Lower Upper  
 101 100  
 85 0.0 32.7 49.1#  
 151 0.0 72.2 108.2#





#12

1,1-Dichloroethene

Concen: 0.615 ug/L

RT: 2.14 min Scan# 328

Delta R.T. -0.00 min

Lab File: VV007754.D

Acq: 22 Sep 2018 23:41

Instrument :

MSVOA\_V

ClientSampled :

C08M9

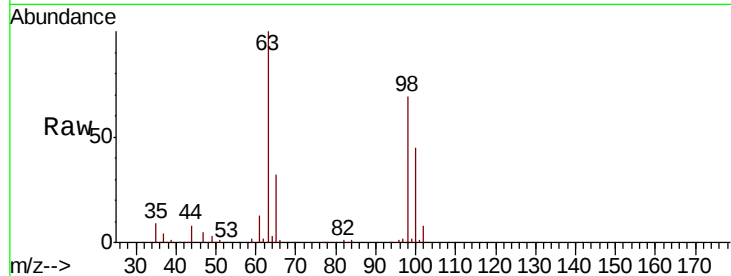
Tgt Ion: 96 Resp: 747

Ion Ratio Lower Upper

96 100

61 1012.5 107.3 199.3#

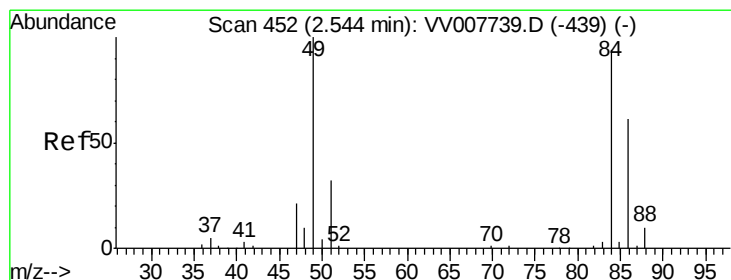
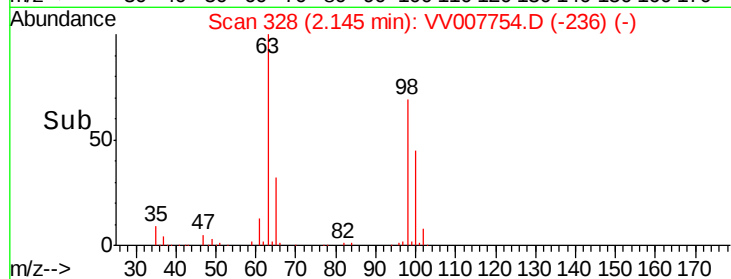
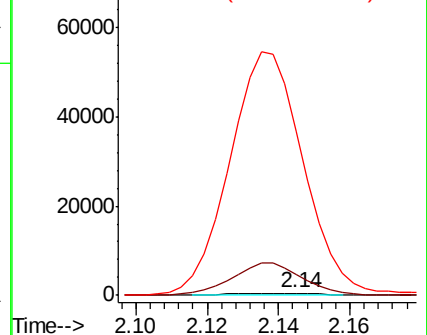
63 7963.7 78.8 146.4#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0



#16

Methylene chloride

Concen: 0.384 ug/L

RT: 2.54 min Scan# 452

Delta R.T. -0.00 min

Lab File: VV007754.D

Acq: 22 Sep 2018 23:41

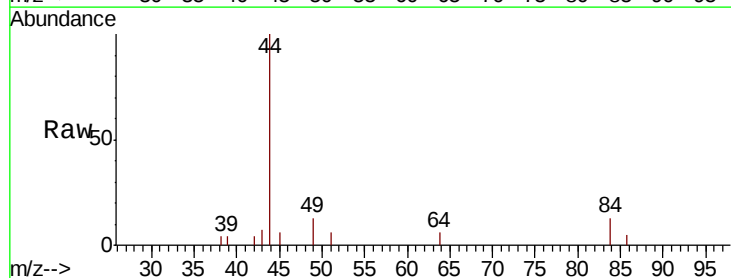
Tgt Ion: 84 Resp: 511

Ion Ratio Lower Upper

84 100

86 37.0 45.4 84.4#

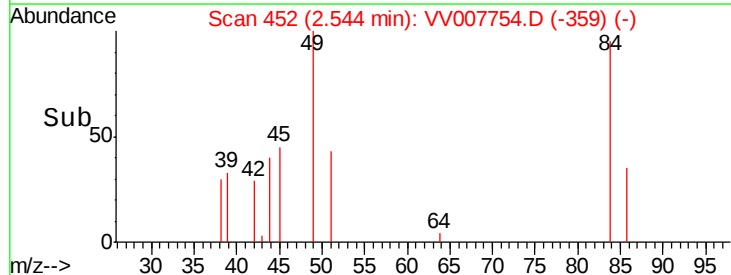
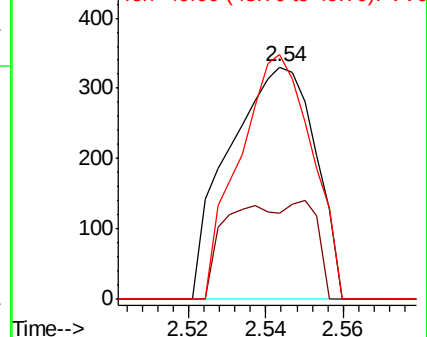
49 105.5 75.3 139.9

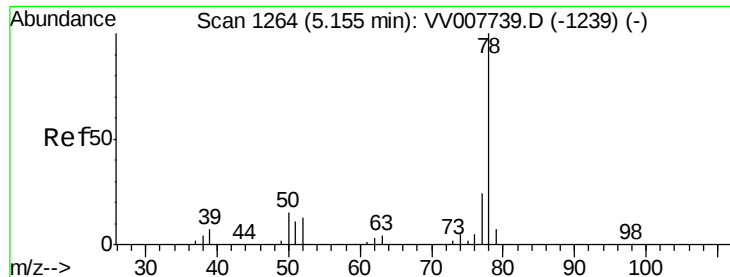


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0





#33

Benzene

Concen: 10.467 ug/L

RT: 5.15 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VV007754.D

Acq: 22 Sep 2018 23:41

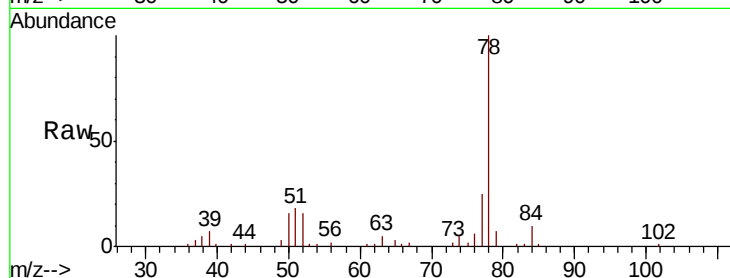
Instrument :

MSVOA\_V

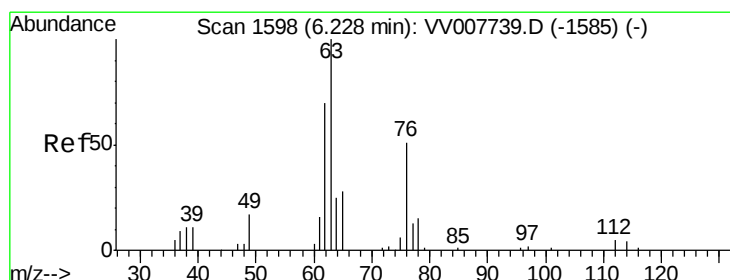
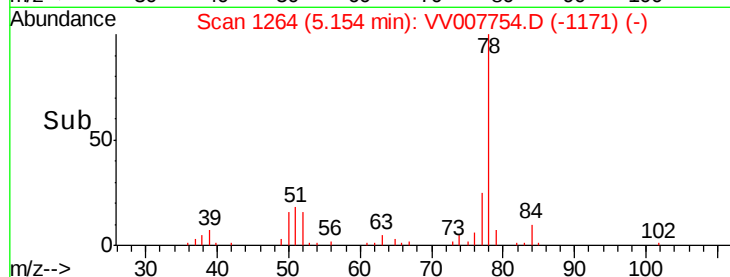
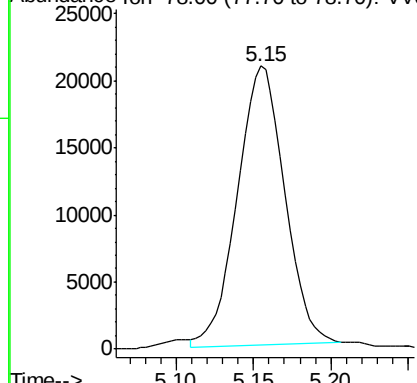
ClientSampleId :

C08M9

Tgt Ion: 78 Resp: 44347



Abundance Ion 78.00 (77.70 to 78.70): VV0



#37

1,2-Dichloropropane

Concen: 6.347 ug/L

RT: 6.13 min Scan# 1566

Delta R.T. -0.10 min

Lab File: VV007754.D

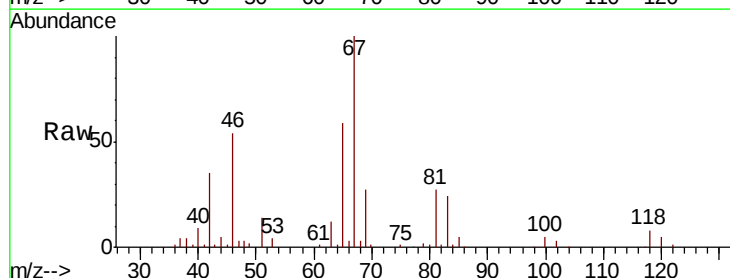
Acq: 22 Sep 2018 23:41

Tgt Ion: 63 Resp: 6770

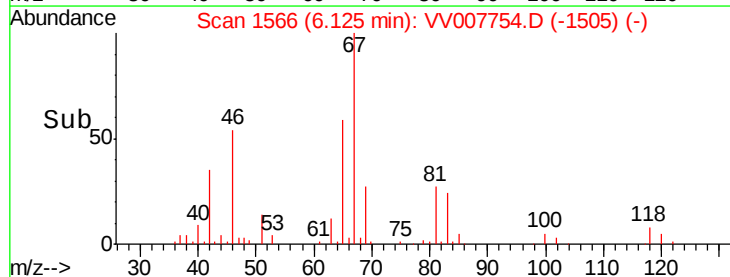
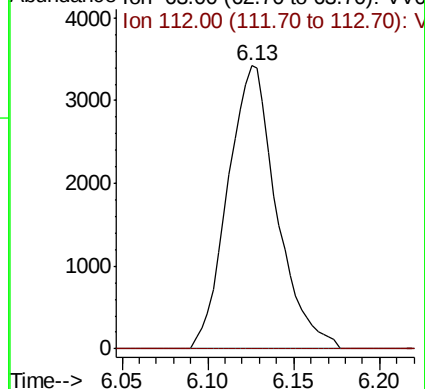
Ion Ratio Lower Upper

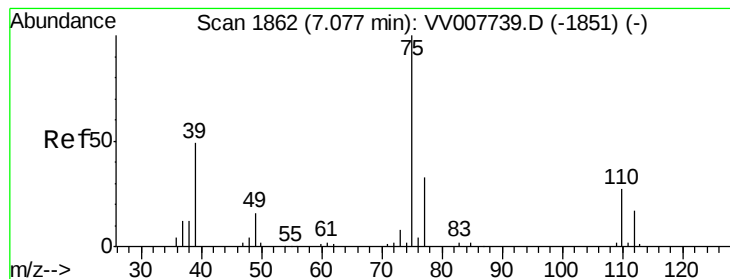
63 100

112 0.0 3.8 5.6#



Abundance Ion 63.00 (62.70 to 63.70): VV0





#39

cis-1,3-Dichloropropene

Concen: 1.047 ug/L

RT: 7.04 min Scan# 1849

Delta R.T. -0.04 min

Lab File: VV007754.D

Acq: 22 Sep 2018 23:41

Instrument :

MSVOA\_V

ClientSampleId :

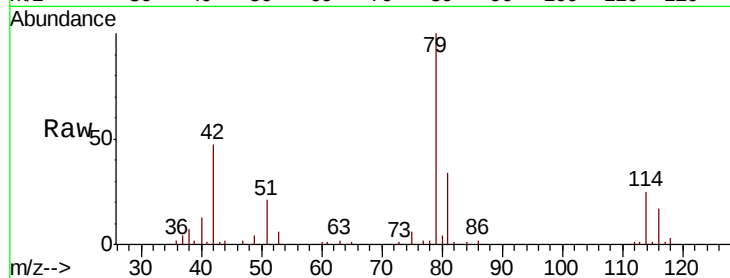
C08M9

Tgt Ion: 75 Resp: 1795

Ion Ratio Lower Upper

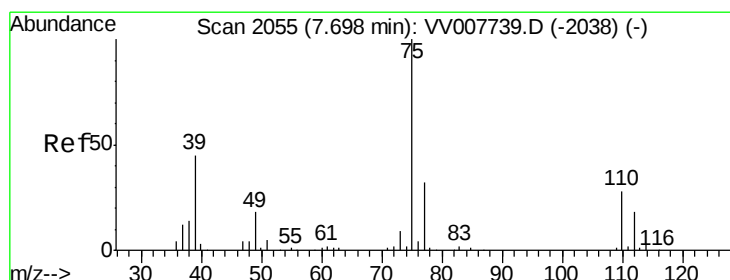
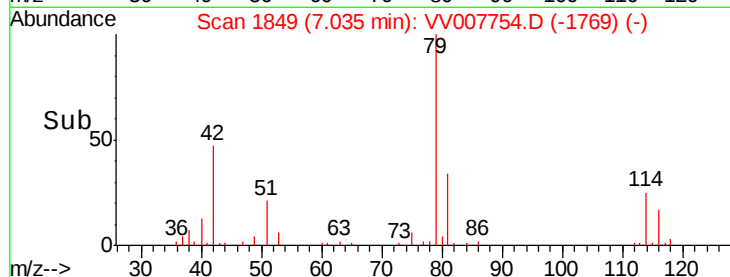
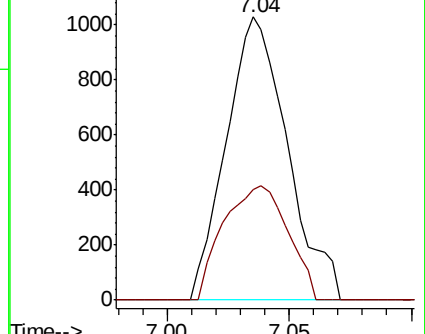
75 100

77 39.1 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.797 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.03 min

Lab File: VV007754.D

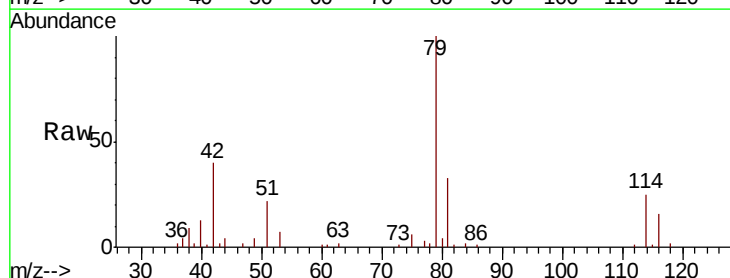
Acq: 22 Sep 2018 23:41

Tgt Ion: 75 Resp: 1298

Ion Ratio Lower Upper

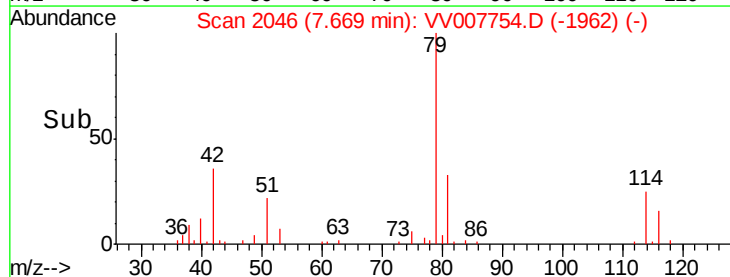
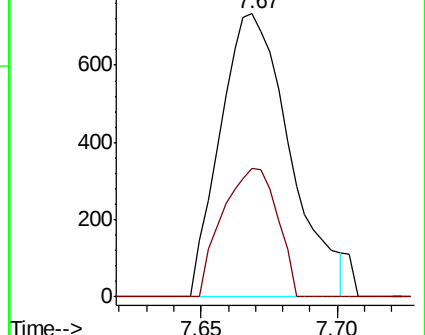
75 100

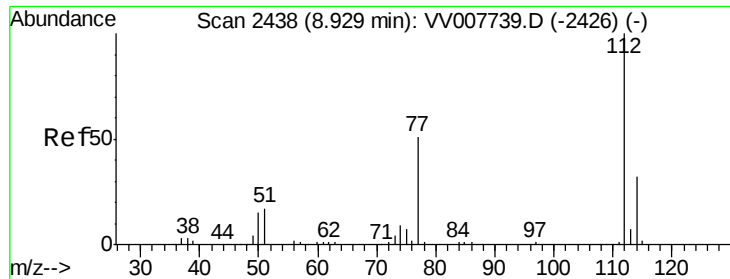
77 45.4 22.0 40.8#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#51

Chlorobenzene

Concen: 24.510 ug/L

RT: 8.93 min Scan# 2438

Delta R.T. -0.00 min

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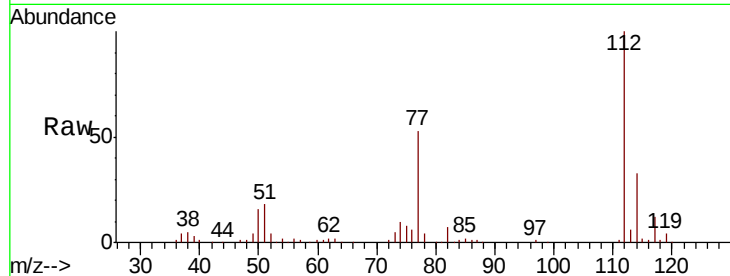
Tgt Ion: 112 Resp: 88664

Ion Ratio Lower Upper

112 100

114 32.8 22.3 41.3

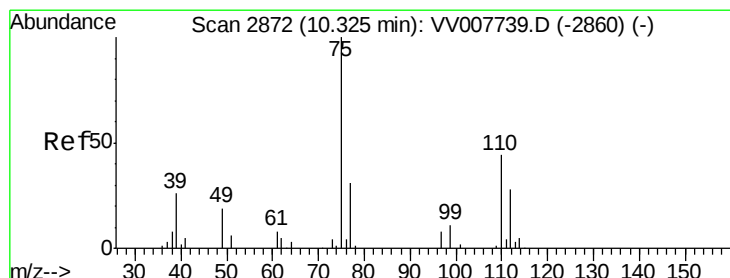
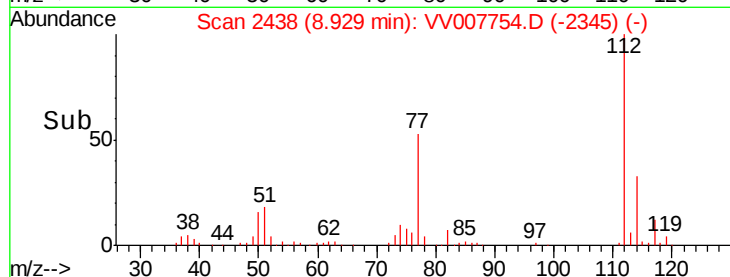
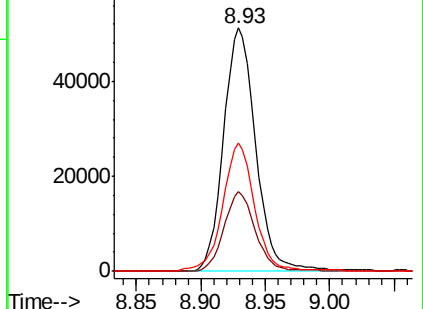
77 52.6 40.6 60.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0



#59

1,2,3-Trichloropropane

Concen: 1.722 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.91 min

Lab File: VV007754.D

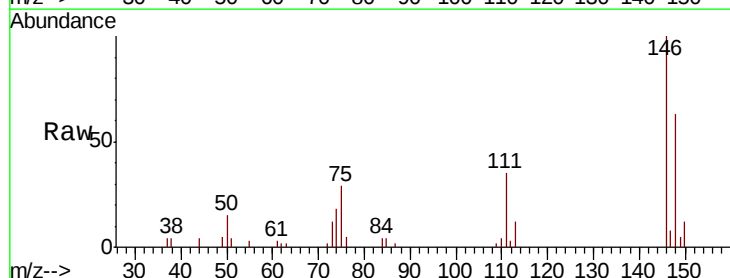
Acq: 22 Sep 2018 23:41

Tgt Ion: 75 Resp: 2597

Ion Ratio Lower Upper

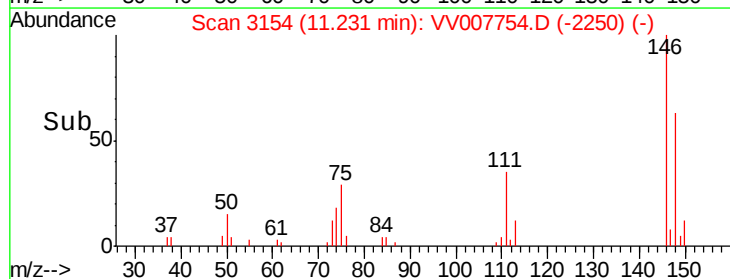
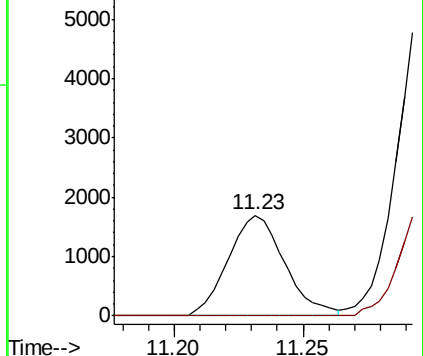
75 100

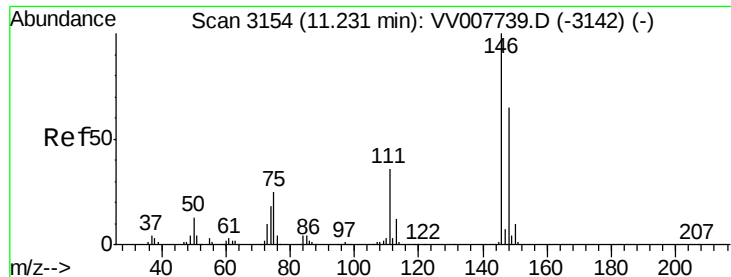
77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#62

1,3-Dichlorobenzene

Concen: 3.195 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. -0.00 min

Lab File: VV007754.D

Acq: 22 Sep 2018 23:41

Instrument :

MSVOA\_V

ClientSampleId :

C08M9

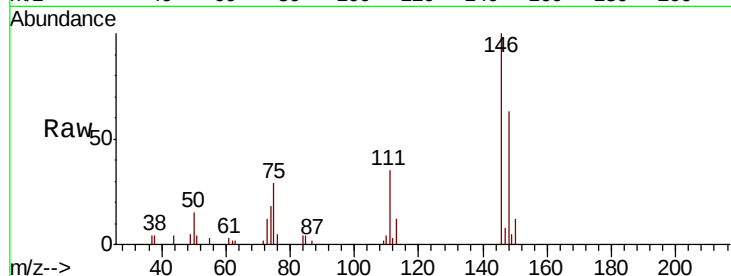
Tgt Ion:146 Resp: 9595

Ion Ratio Lower Upper

146 100

111 34.9 25.1 46.7

148 62.6 45.1 83.9

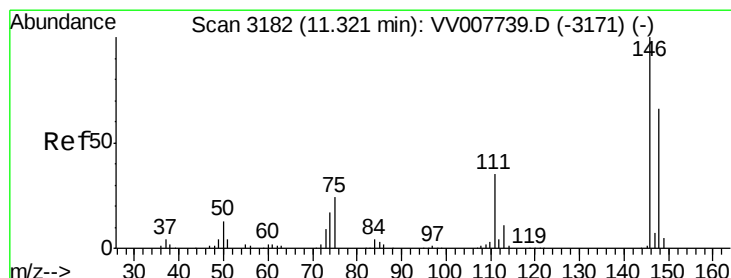
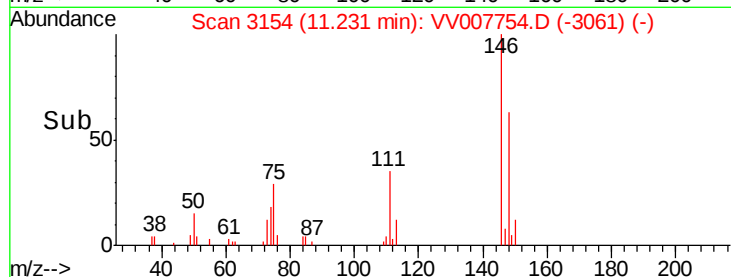
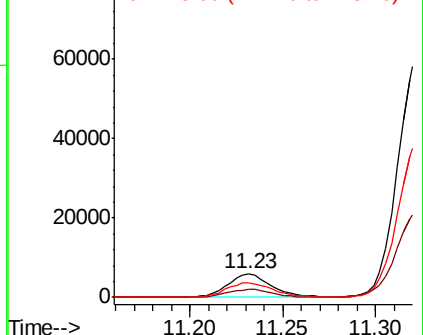


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 33.339 ug/L

RT: 11.32 min Scan# 3183

Delta R.T. 0.00 min

Lab File: VV007754.D

Acq: 22 Sep 2018 23:41

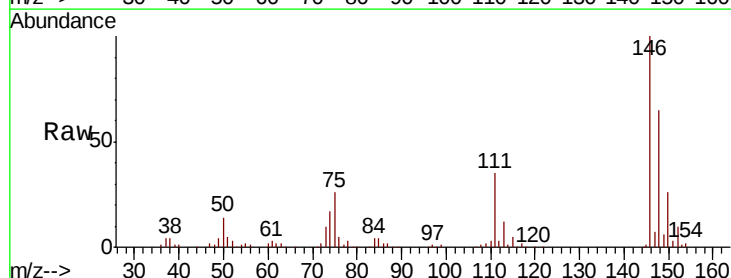
Tgt Ion:146 Resp: 103843

Ion Ratio Lower Upper

146 100

111 34.9 24.4 45.4

148 64.7 45.1 83.7

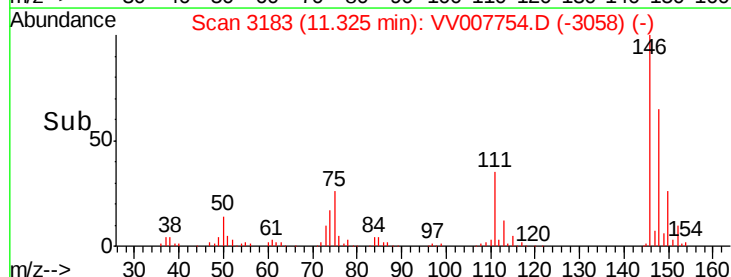
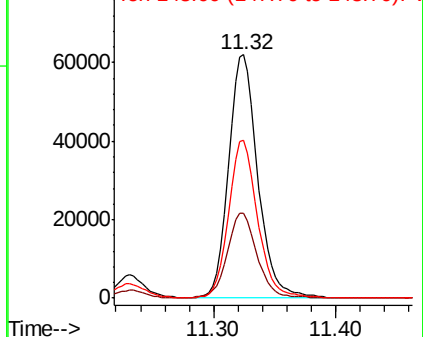


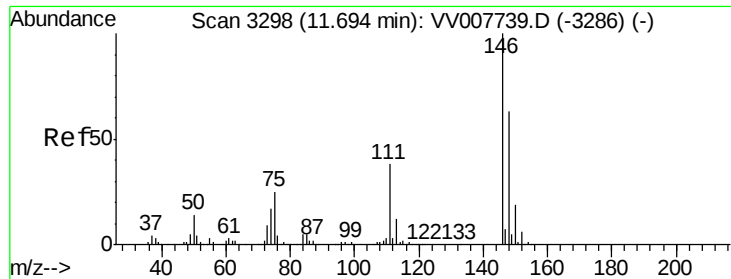
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

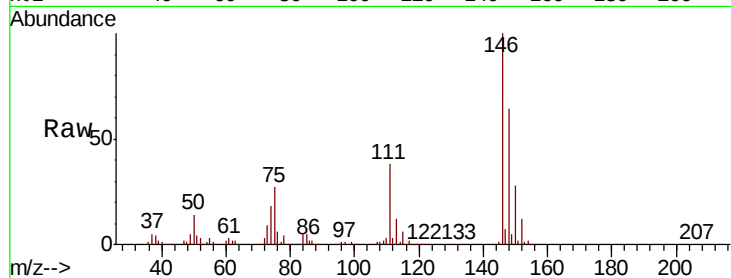




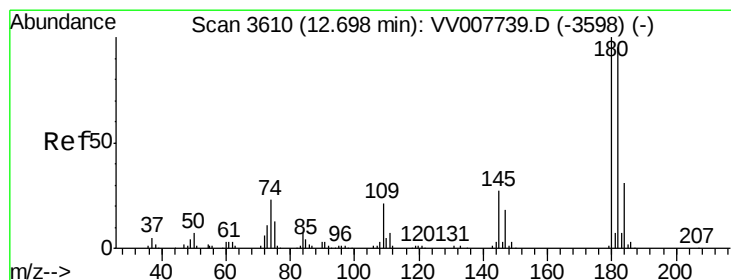
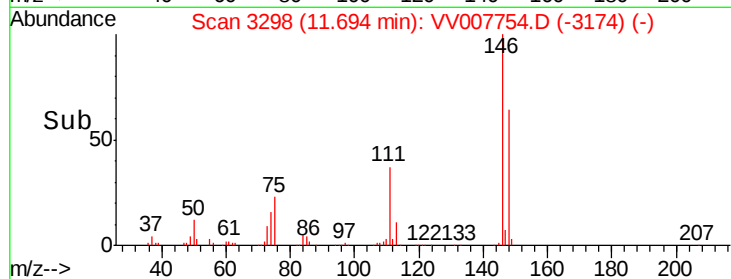
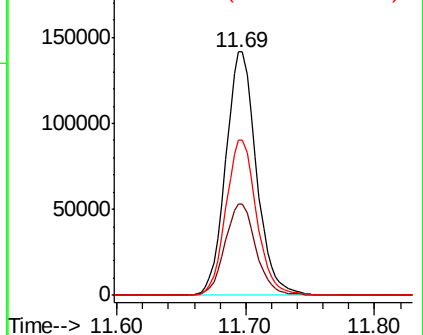
#65  
 1,2-Dichlorobenzene  
 Concen: 76.924 ug/L  
 RT: 11.69 min Scan# 3298  
 Delta R.T. -0.00 min  
 Lab File: VV007754.D  
 Acq: 22 Sep 2018 23:41

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C08M9

Tgt Ion:146 Resp: 233570  
 Ion Ratio Lower Upper  
 146 100  
 111 37.5 29.8 44.8  
 148 63.8 50.8 76.2

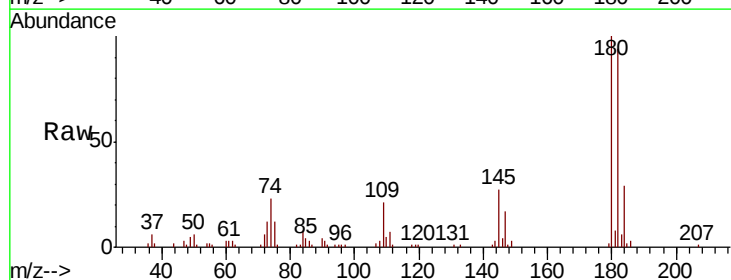


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

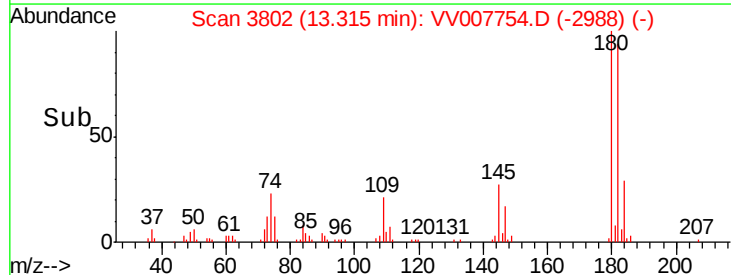
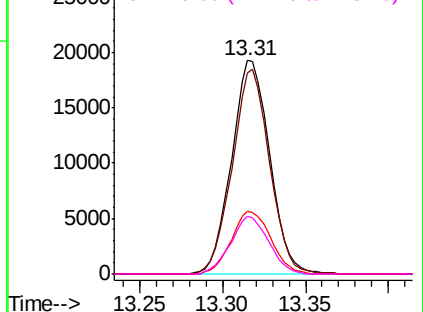


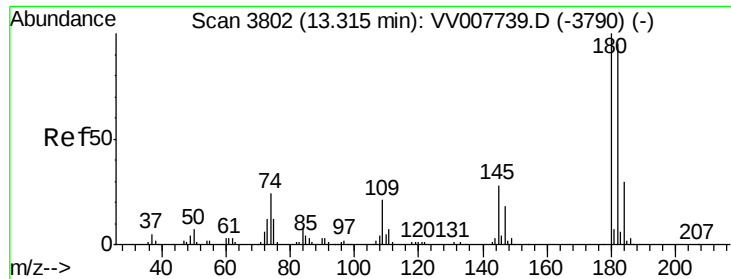
#67  
 1,3,5-Trichlorobenzene  
 Concen: 12.246 ug/L  
 RT: 13.31 min Scan# 3802  
 Delta R.T. 0.62 min  
 Lab File: VV007754.D  
 Acq: 22 Sep 2018 23:41

Tgt Ion:180 Resp: 30885  
 Ion Ratio Lower Upper  
 180 100  
 182 93.6 77.6 116.4  
 184 30.3 24.7 37.1  
 145 26.7 21.8 32.8



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

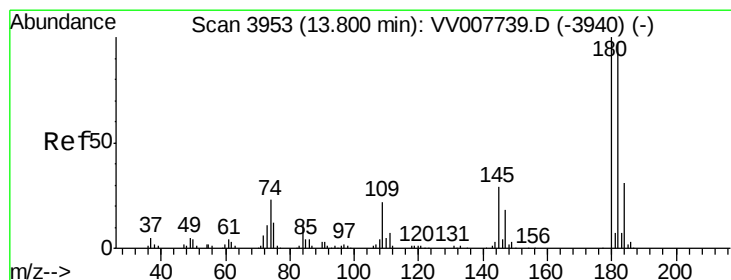
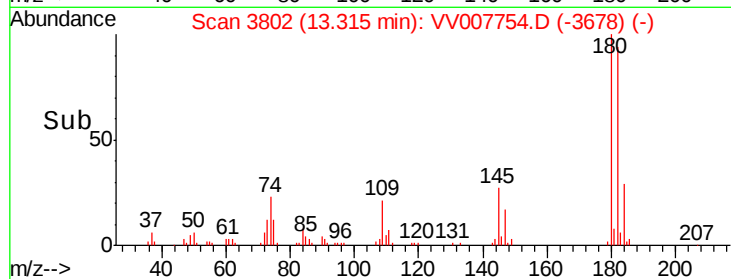
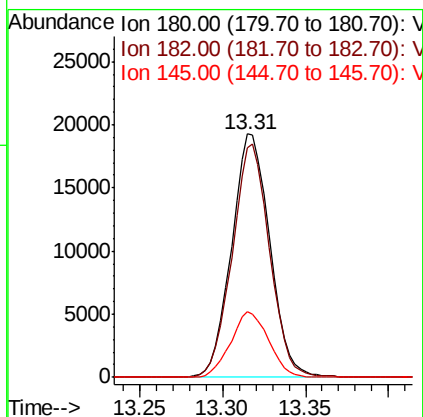
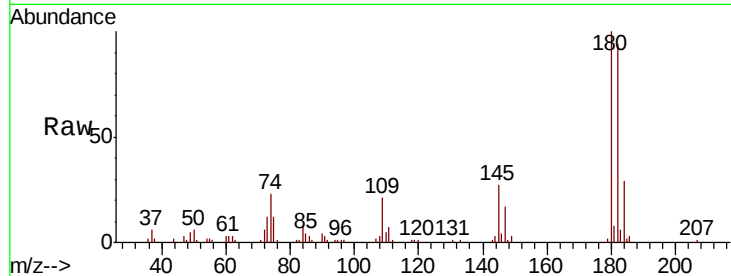




#68  
 1,2,4-trichlorobenzene  
 Concen: 13.645 ug/L  
 RT: 13.31 min Scan# 3802  
 Delta R.T. -0.00 min  
 Lab File: VV007754.D  
 Acq: 22 Sep 2018 23:41

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C08M9

Tgt Ion:180 Resp: 30885  
 Ion Ratio Lower Upper  
 180 100  
 182 93.6 77.0 115.6  
 145 26.7 22.2 33.2



#70  
 1,2,3-Trichlorobenzene  
 Concen: 4.571 ug/L  
 RT: 13.80 min Scan# 3953  
 Delta R.T. -0.00 min  
 Lab File: VV007754.D  
 Acq: 22 Sep 2018 23:41

Tgt Ion:180 Resp: 10457  
 Ion Ratio Lower Upper  
 180 100  
 182 95.5 77.4 116.2  
 145 29.6 23.3 34.9

