

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV092318\  
 Data File : VV007770.D  
 Acq On : 23 Sep 2018 06:44  
 Operator : SY/MD  
 Sample : J5013-09  
 Misc : 5.0 mL/MSVOA\_V/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C08M3

Quant Time: Sep 24 05:17:29 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092318WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Sep 24 05:16:03 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 182140   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 174609   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 93652    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 38018    | 38.40    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 76.80% |
| 7) Chloroethane-d5             | 1.59    | 69    | 38875    | 43.21    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 86.42% |
| 11) 1,1-Dichloroethene-d2      | 2.14    | 63    | 74978    | 32.13    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 64.26% |
| 21) 2-Butanone-d5              | 3.95    | 46    | 55332    | 84.63    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 84.63% |
| 24) Chloroform-d               | 4.41    | 84    | 88286    | 41.66    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.32% |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 59266    | 43.84    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.68% |
| 32) Benzene-d6                 | 5.11    | 84    | 179380   | 44.69    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.38% |
| 36) 1,2-Dichloropropane-d6     | 6.13    | 67    | 52457    | 44.26    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 88.52% |
| 41) Toluene-d8                 | 7.36    | 98    | 181470   | 43.27    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.54% |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 22583    | 37.79    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 75.58% |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 43351    | 83.06    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 83.06% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 79575    | 43.01    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 86.02% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 87752    | 45.55    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.10% |

## Target Compounds

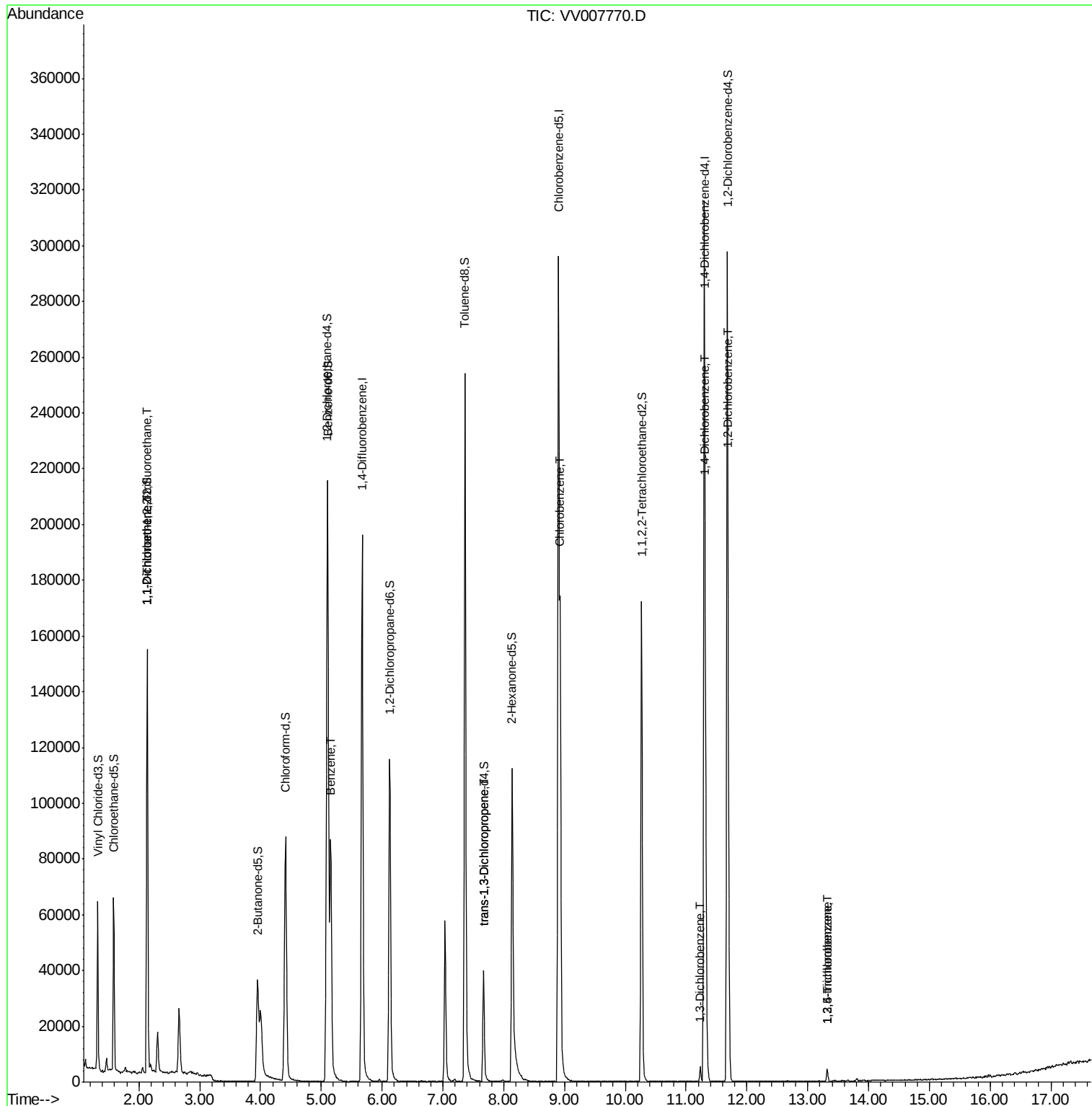
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14  | 101  | 773      | 0.561  | ug/L # | 14     |
| 12) 1,1-Dichloroethene         | 2.14  | 96   | 755      | 0.625  | ug/L # | 1      |
| 33) Benzene                    | 5.15  | 78   | 83580    | 19.983 | ug/L   | 100    |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75   | 1195     | 0.744  | ug/L # | 77     |
| 51) Chlorobenzene              | 8.93  | 112  | 90733    | 25.407 | ug/L   | 99     |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 2698     | 0.909  | ug/L   | 96     |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 31052    | 10.082 | ug/L   | 100    |
| 65) 1,2-Dichlorobenzene        | 11.70 | 146  | 22241    | 7.407  | ug/L   | 99     |
| 67) 1,3,5-Trichlorobenzene     | 13.32 | 180  | 2170     | 0.870  | ug/L   | 93     |
| 68) 1,2,4-trichlorobenzene     | 13.32 | 180  | 2170     | 0.970  | ug/L # | 93     |

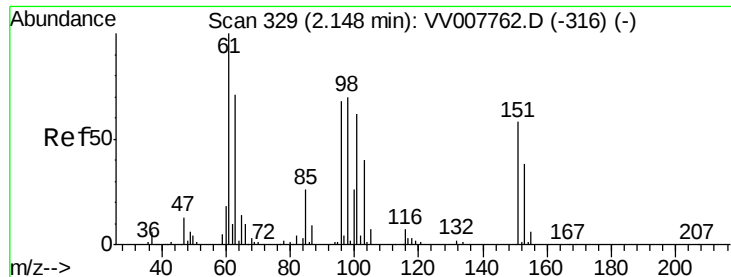
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV092318\  
Data File : VV007770.D  
Acq On : 23 Sep 2018 06:44  
Operator : SY/MD  
Sample : J5013-09  
Misc : 5.0 mL/MSVOA\_V/WATER  
ALS Vial : 44 Sample Multiplier: 1

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
C08M3

Quant Time: Sep 24 05:17:29 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092318WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Sep 24 05:16:03 2018  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.561 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VV007770.D

Acq: 23 Sep 2018 06:44

Instrument :

MSVOA\_V

ClientSampled :

C08M3

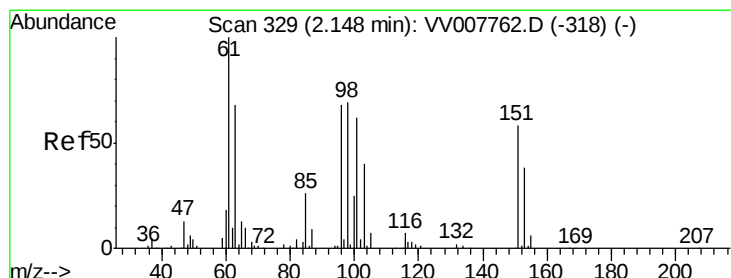
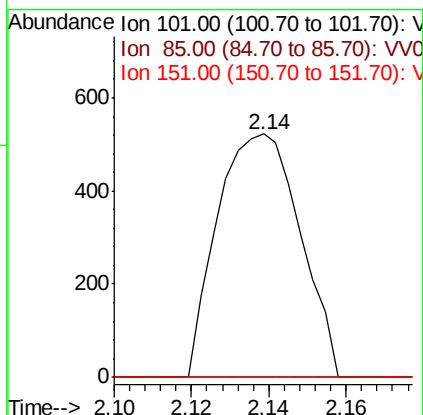
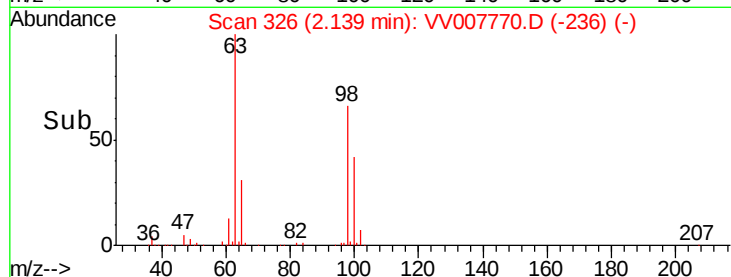
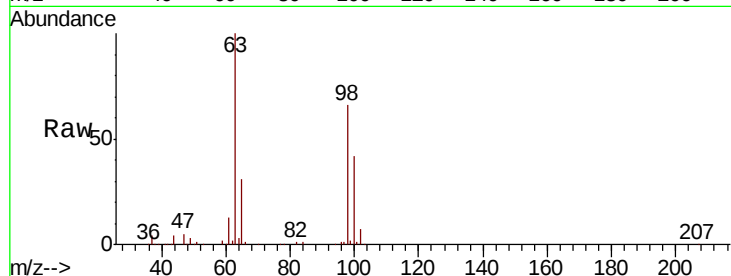
Tgt Ion: 101 Resp: 773

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: 0.625 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VV007770.D

Acq: 23 Sep 2018 06:44

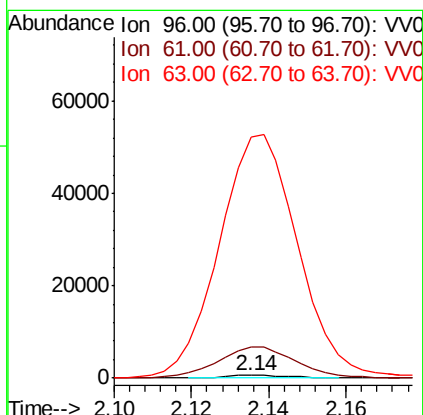
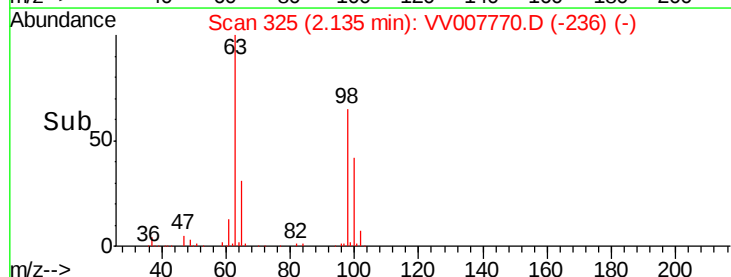
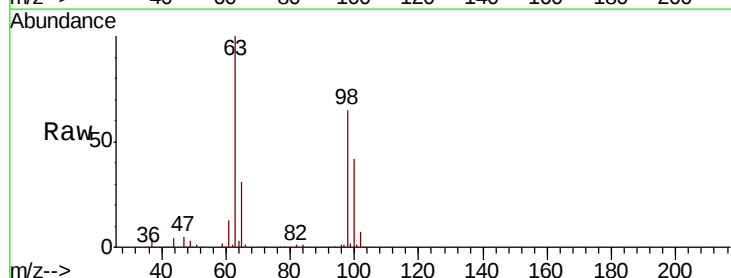
Tgt Ion: 96 Resp: 755

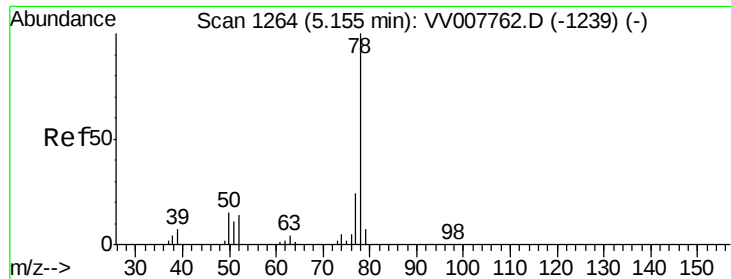
Ion Ratio Lower Upper

96 100

61 1089.2 107.3 199.3#

63 8403.9 78.8 146.4#





#33

Benzene

Concen: 19.983 ug/L

RT: 5.15 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VV007770.D

Acq: 23 Sep 2018 06:44

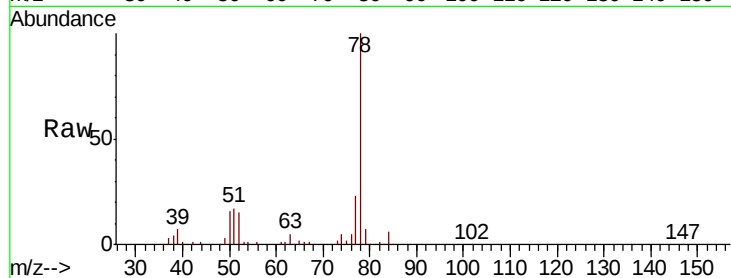
Instrument :

MSVOA\_V

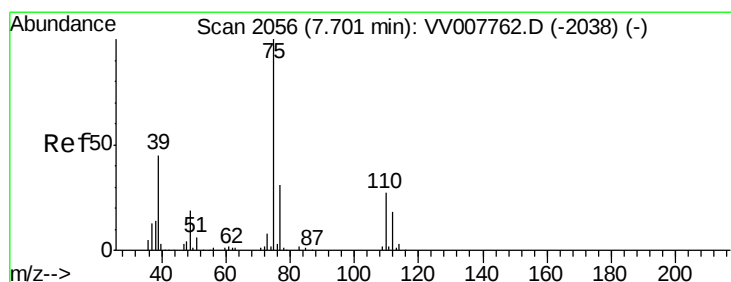
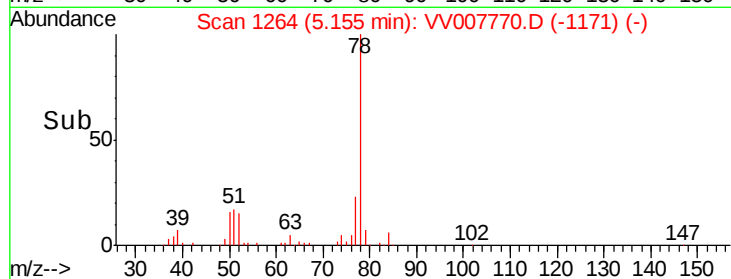
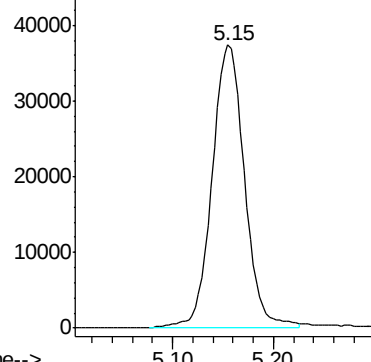
ClientSampleId :

C08M3

Tgt Ion: 78 Resp: 83580



Abundance Ion 78.00 (77.70 to 78.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.744 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. -0.03 min

Lab File: VV007770.D

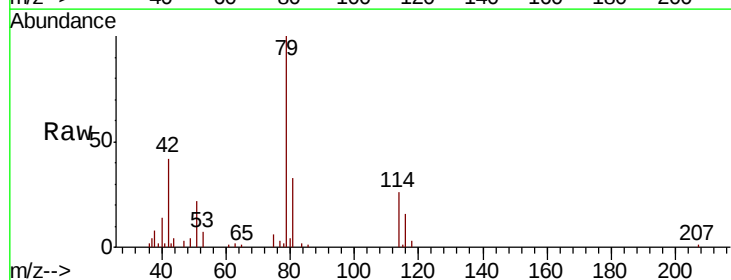
Acq: 23 Sep 2018 06:44

Tgt Ion: 75 Resp: 1195

Ion Ratio Lower Upper

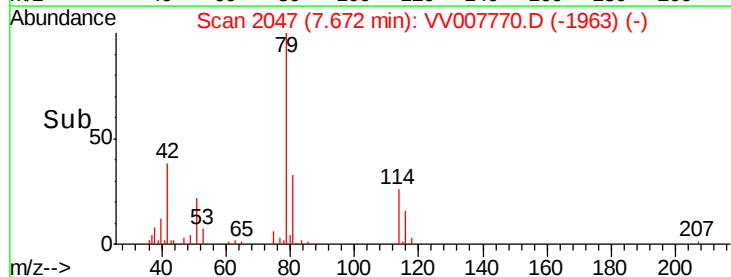
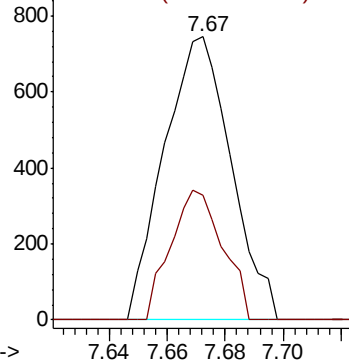
75 100

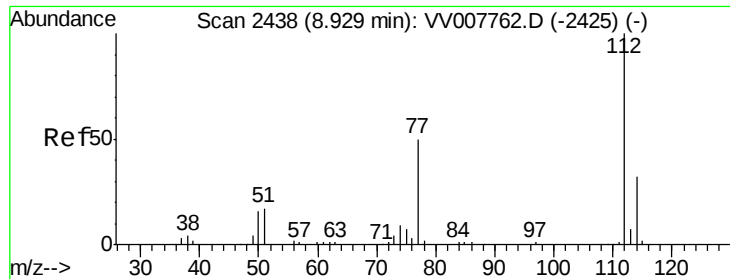
77 44.2 22.0 40.8#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#51

Chlorobenzene

Concen: 25.407 ug/L

RT: 8.93 min Scan# 2438

Delta R.T. 0.00 min

Lab File: VV007770.D

Acq: 23 Sep 2018 06:44

Instrument :

MSVOA\_V

ClientSampleId :

C08M3

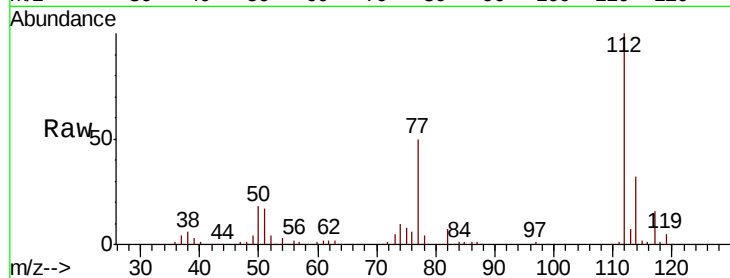
Tgt Ion:112 Resp: 90733

Ion Ratio Lower Upper

112 100

114 32.3 22.3 41.3

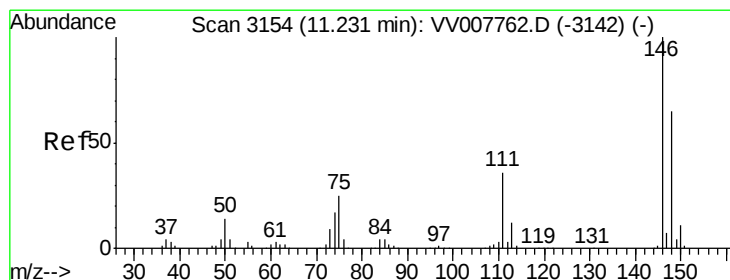
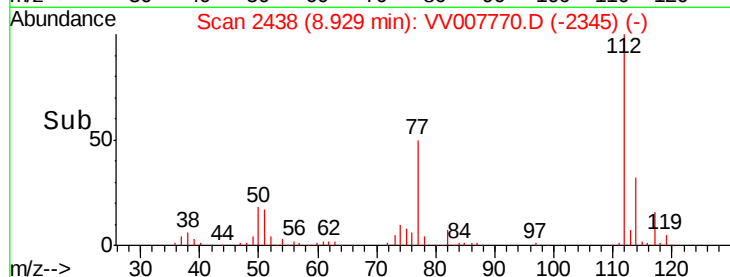
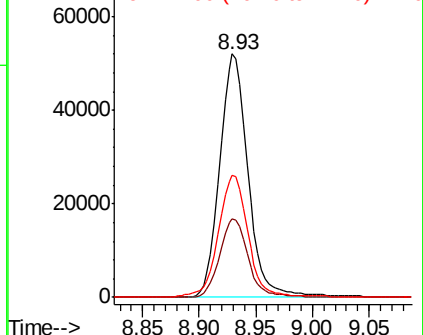
77 50.3 40.6 60.8



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): V



#62

1,3-Dichlorobenzene

Concen: 0.909 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.00 min

Lab File: VV007770.D

Acq: 23 Sep 2018 06:44

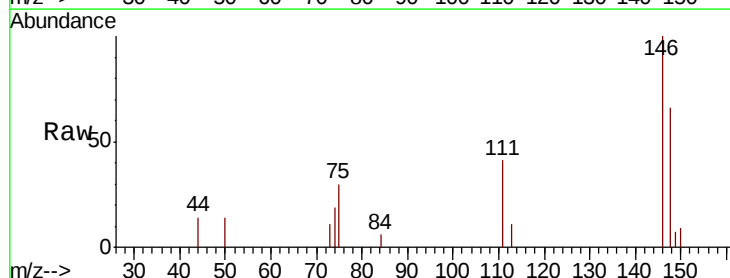
Tgt Ion:146 Resp: 2698

Ion Ratio Lower Upper

146 100

111 41.1 25.1 46.7

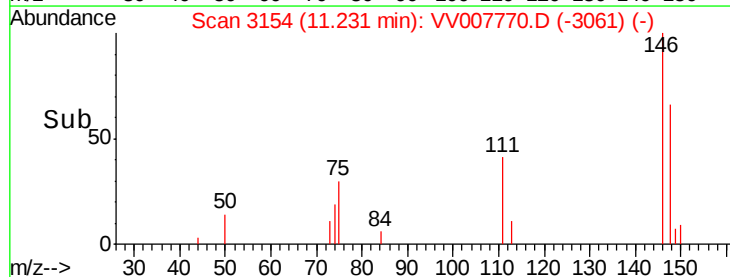
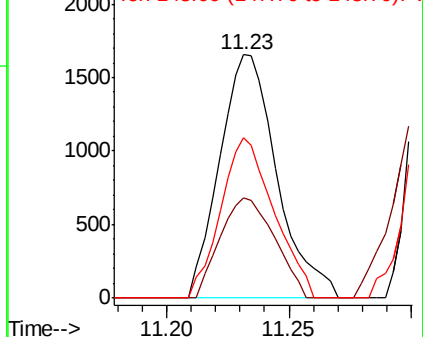
148 65.8 45.1 83.9

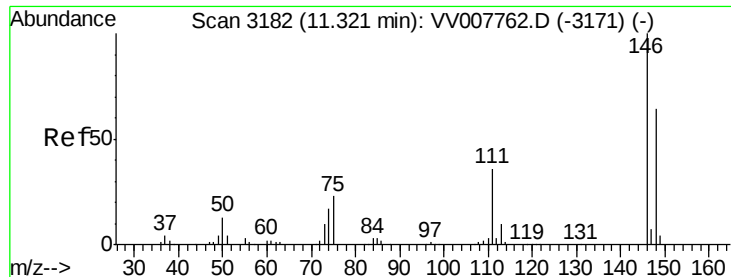


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 10.082 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV007770.D

Acq: 23 Sep 2018 06:44

Instrument :

MSVOA\_V

ClientSampleId :

C08M3

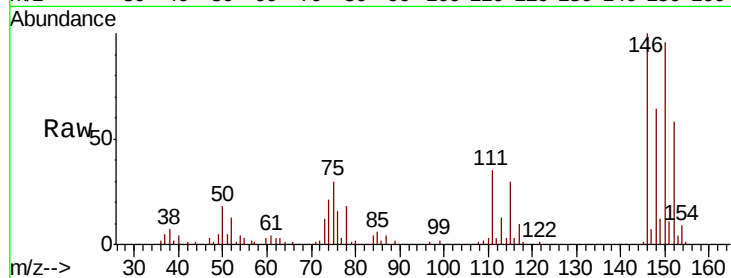
Tgt Ion:146 Resp: 31052

Ion Ratio Lower Upper

146 100

111 35.4 24.4 45.4

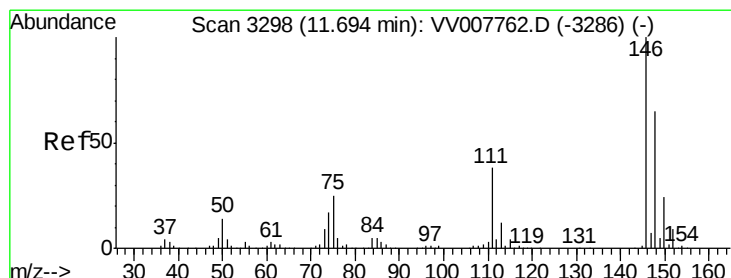
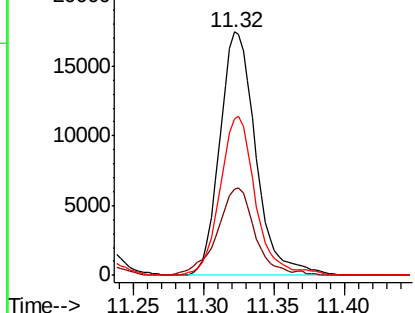
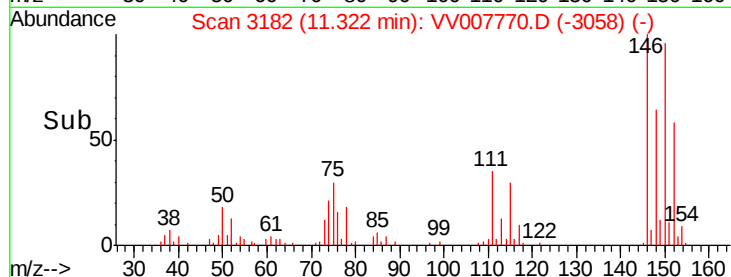
148 64.4 45.1 83.7



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: 7.407 ug/L

RT: 11.70 min Scan# 3299

Delta R.T. 0.00 min

Lab File: VV007770.D

Acq: 23 Sep 2018 06:44

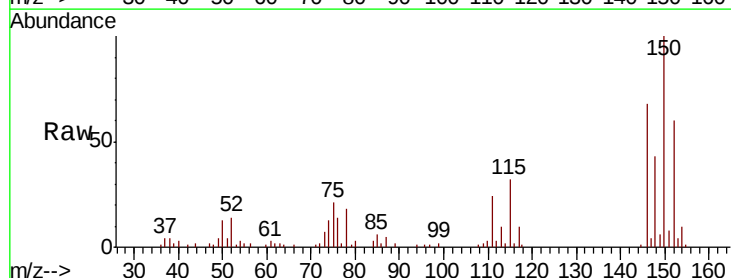
Tgt Ion:146 Resp: 22241

Ion Ratio Lower Upper

146 100

111 35.5 29.8 44.8

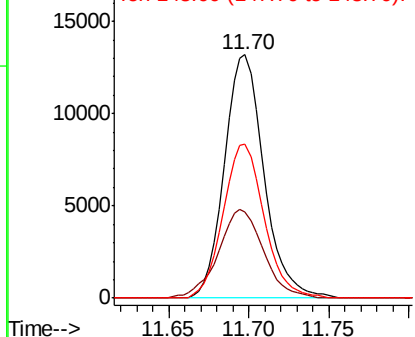
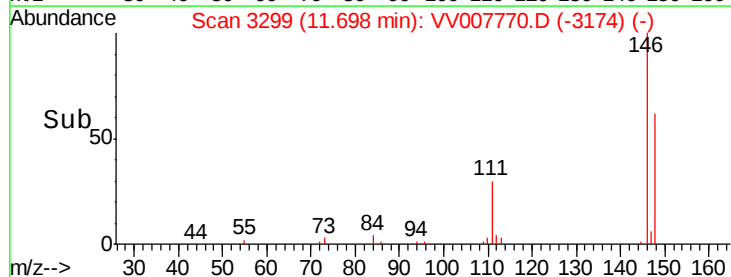
148 63.3 50.8 76.2

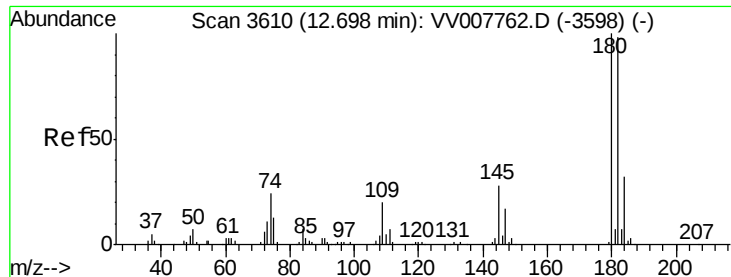


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

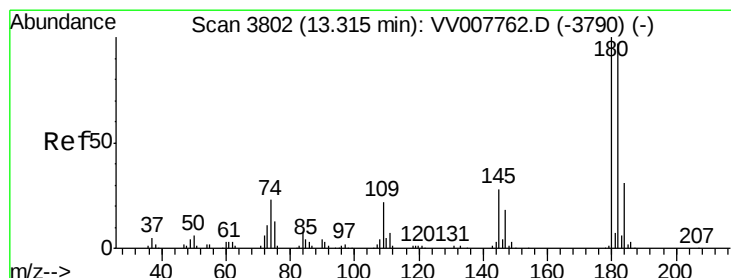
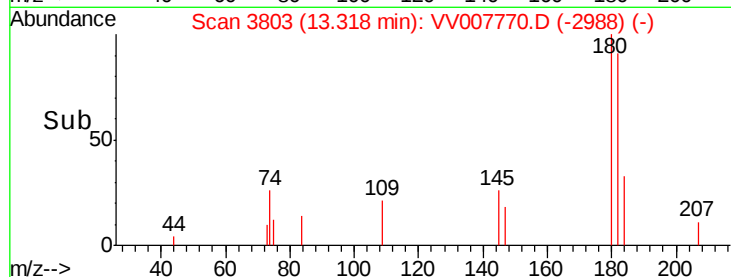
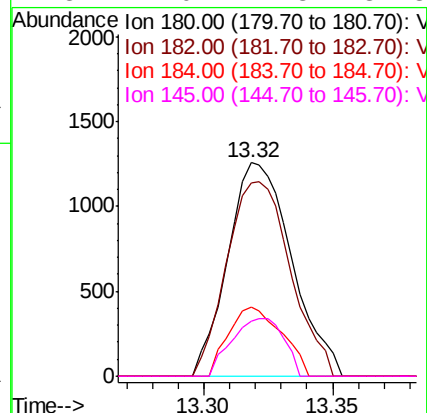
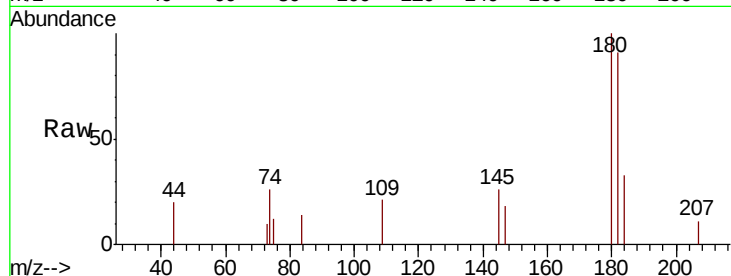




#67  
 1,3,5-Trichlorobenzene  
 Concen: 0.870 ug/L  
 RT: 13.32 min Scan# 3803  
 Delta R.T. 0.62 min  
 Lab File: VV007770.D  
 Acq: 23 Sep 2018 06:44

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C08M3

Tgt Ion:180 Resp: 2170  
 Ion Ratio Lower Upper  
 180 100  
 182 90.8 77.6 116.4  
 184 27.1 24.7 37.1  
 145 22.0 21.8 32.8



#68  
 1,2,4-trichlorobenzene  
 Concen: 0.970 ug/L  
 RT: 13.32 min Scan# 3803  
 Delta R.T. 0.00 min  
 Lab File: VV007770.D  
 Acq: 23 Sep 2018 06:44

Tgt Ion:180 Resp: 2170  
 Ion Ratio Lower Upper  
 180 100  
 182 90.8 77.0 115.6  
 145 22.0 22.2 33.2#

