

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102119\  
 Data File : VW013636.D  
 Acq On : 21 Oct 2019 15:25  
 Operator : SY/VA  
 Sample : K5422-04  
 Misc : 6.93G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Oct 21 16:41:09 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Oct 21 16:37:58 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 343164   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 292375   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 127440   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 114025   | 27.08    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 108.32% |
| 7) Chloroethane-d5             | 2.89   | 69    | 94763    | 24.11    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 96.44%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 170499   | 18.33    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 73.32%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 51003    | 33.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 67.74%  |
| 24) Chloroform-d               | 7.65   | 84    | 222412   | 23.16    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 92.64%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 112718   | 22.45    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 89.80%  |
| 29) Benzene-d6                 | 8.27   | 84    | 482415   | 27.46    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 109.84% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 142964   | 27.25    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 109.00% |
| 37) Toluene-d8                 | 10.32  | 98    | 424777   | 26.22    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 104.88% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 53610    | 22.65    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 90.60%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 42346    | 42.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 84.44%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 94668    | 22.03    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 88.12%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 103955   | 23.08    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 92.32%  |

## Target Compounds

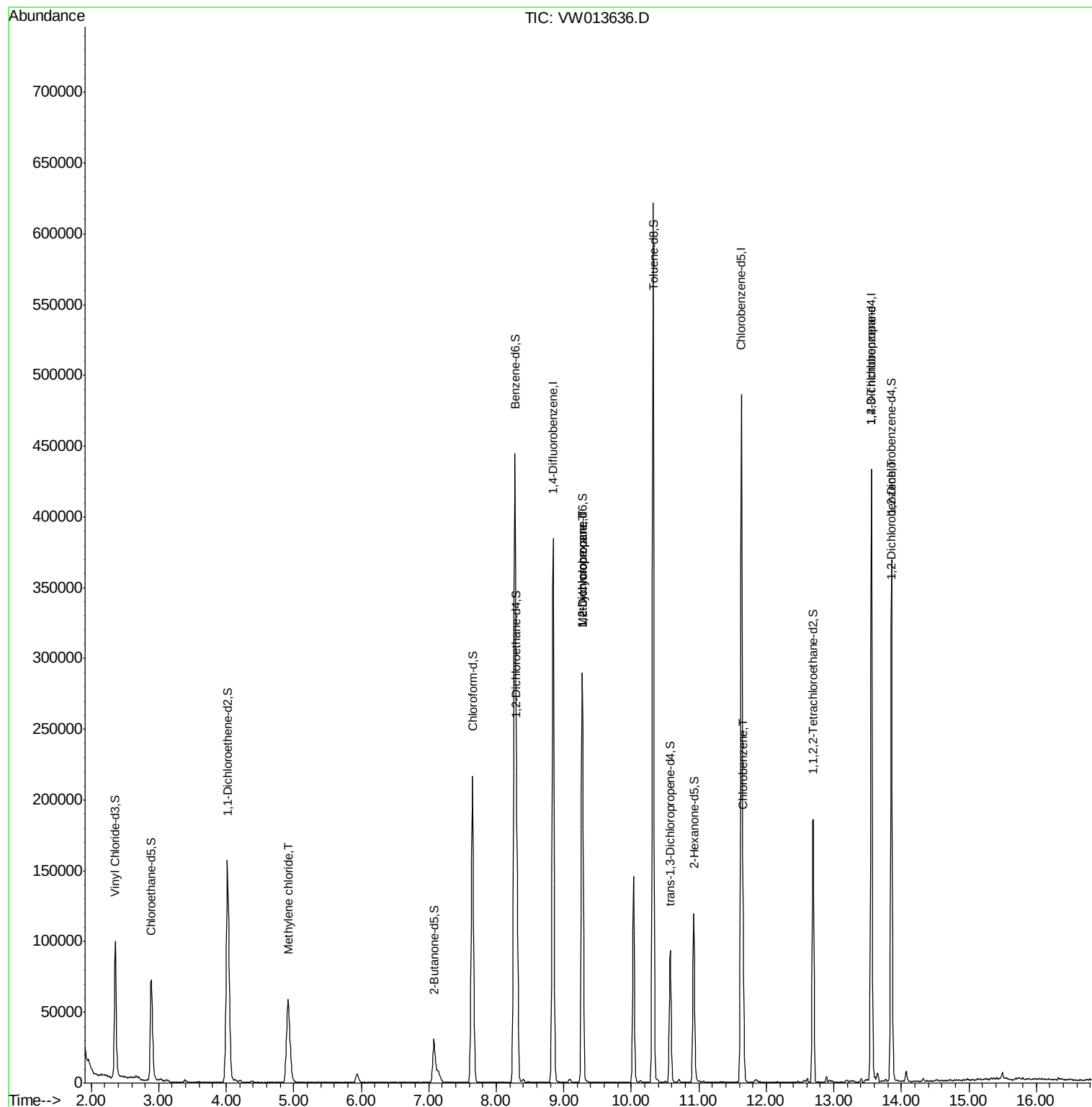
|                            |       |     |       |              | Ovalue |
|----------------------------|-------|-----|-------|--------------|--------|
| 16) Methylene chloride     | 4.92  | 84  | 54019 | 8.221 ug/L   | 95     |
| 36) Methylcyclohexane      | 9.27  | 83  | 34588 | 3.646 ug/L # | 20     |
| 40) 1,2-Dichloropropane    | 9.27  | 63  | 14874 | 2.900 ug/L # | 85     |
| 52) Chlorobenzene          | 11.66 | 112 | 51302 | 3.557 ug/L   | 92     |
| 59) 1,2,3-Trichloropropane | 13.55 | 75  | 13101 | 3.789 ug/L   | 92     |
| 65) 1,2-Dichlorobenzene    | 13.86 | 146 | 8544  | 1.090 ug/L   | 93     |

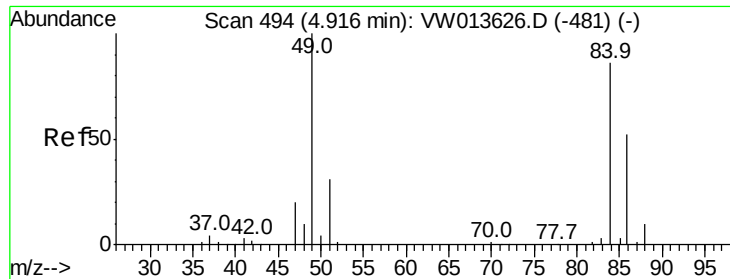
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : K5422-04  
Misc : 6.93G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Oct 21 16:41:09 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
Quant Title : VOC Analysis  
QLast Update : Mon Oct 21 16:37:58 2019  
Response via : Initial Calibration

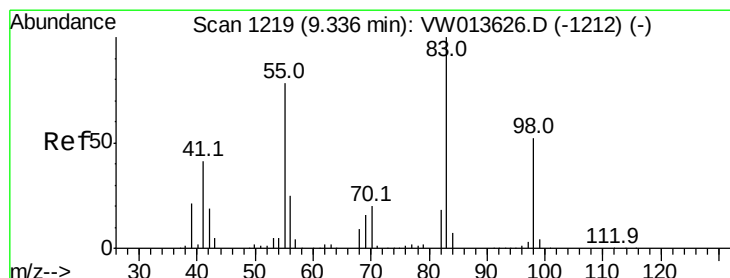
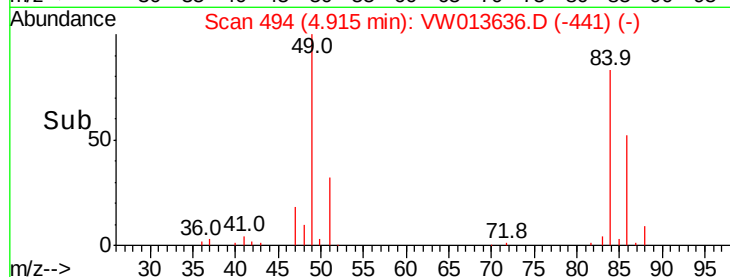
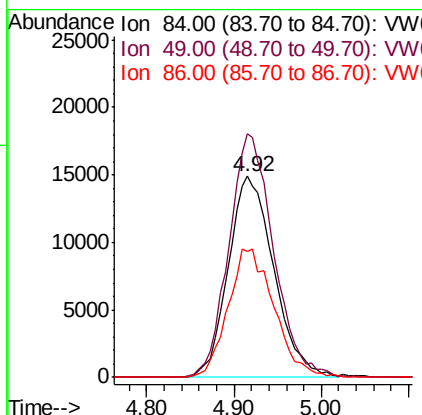
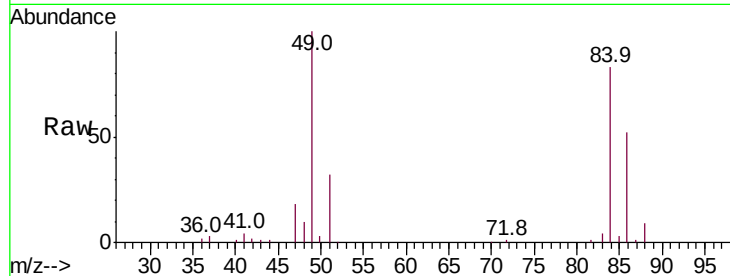




#16  
Methylene chloride  
Concen: 8.221 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VW013636.D  
Acq: 21 Oct 2019 15:25

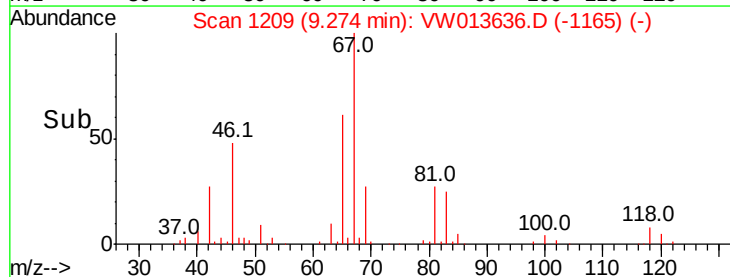
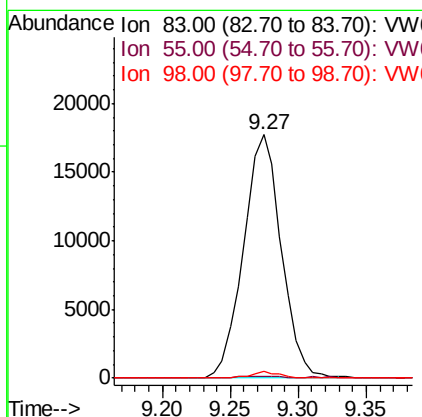
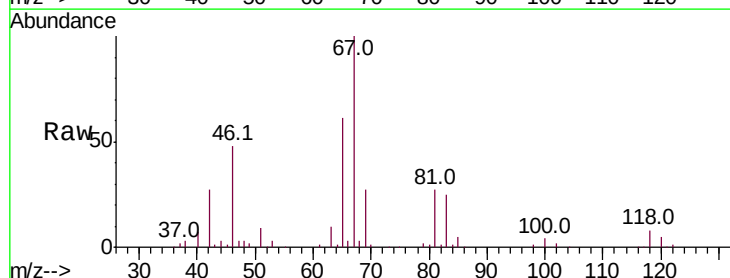
Instrument :  
MSVOA\_W  
ClientSampled :

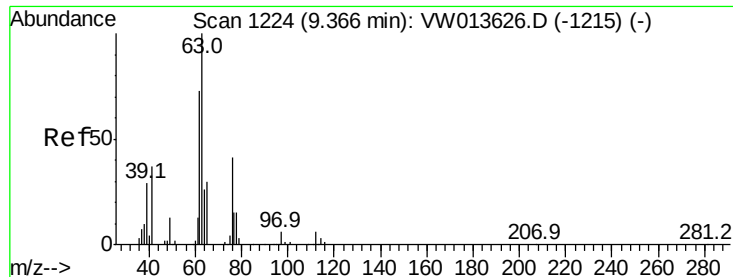
Tot Ion: 84 Resp: 54019  
Ion Ratio Lower Upper  
84 100  
49 121.2 80.2 148.9  
86 62.6 42.7 79.3



#36  
Methylcyclohexane  
Concen: 3.646 ug/L  
RT: 9.27 min Scan# 1209  
Delta R.T. -0.06 min  
Lab File: VW013636.D  
Acq: 21 Oct 2019 15:25

Tgt Ion: 83 Resp: 34588  
Ion Ratio Lower Upper  
83 100  
55 0.5 60.2 90.4#  
98 1.8 39.1 58.7#





#40

1,2-Dichloropropane

Concen: 2.900 ug/L

RT: 9.27 min Scan# 1208

Delta R.T. -0.10 min

Lab File: VW013636.D

Acq: 21 Oct 2019 15:25

Instrument :

MSVOA\_W

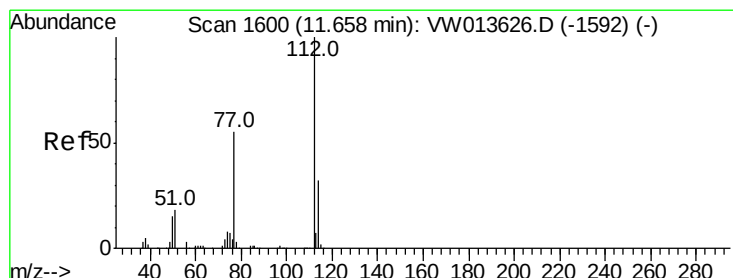
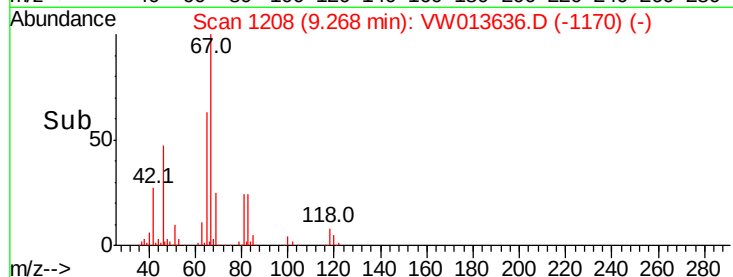
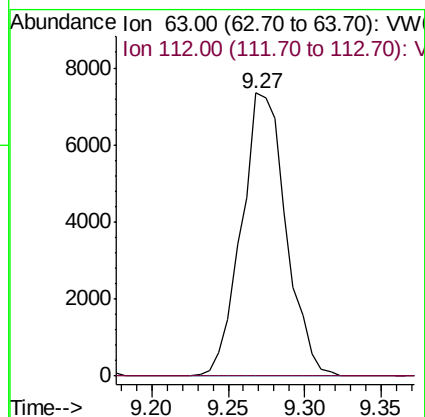
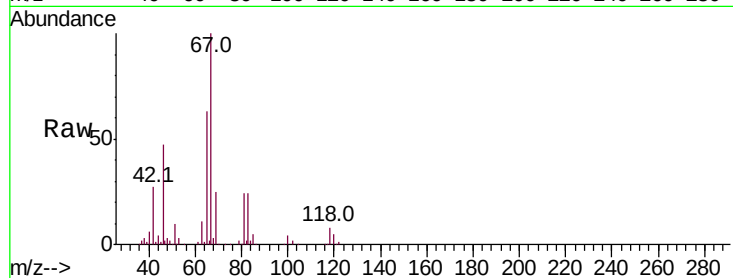
ClientSampleId :

Tot Ion: 63 Resp: 14874

Ion Ratio Lower Upper

63 100

112 0.0 3.9 5.9#



#52

Chlorobenzene

Concen: 3.557 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW013636.D

Acq: 21 Oct 2019 15:25

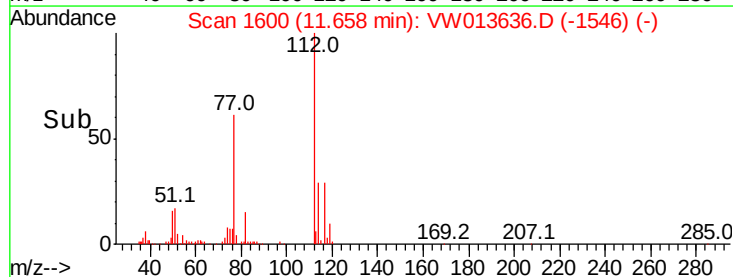
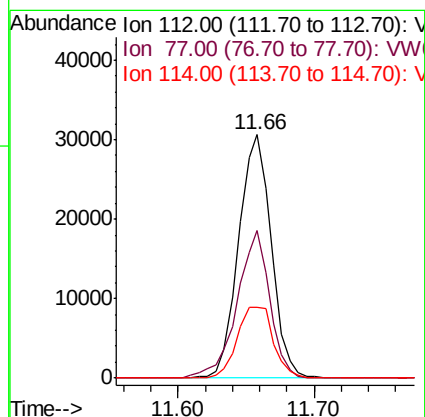
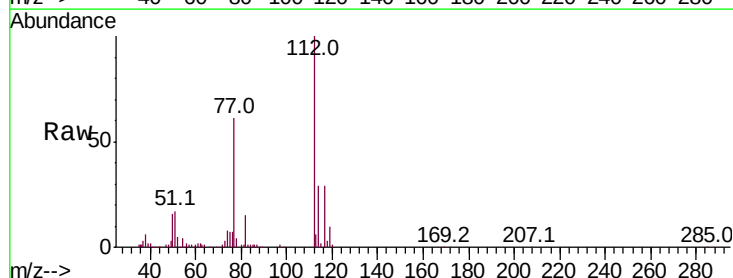
Tgt Ion: 112 Resp: 51302

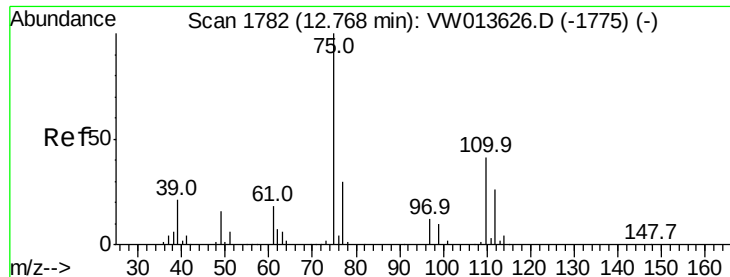
Ion Ratio Lower Upper

112 100

77 60.6 44.1 66.1

114 29.1 23.4 43.4





#59

1,2,3-Trichloropropane

Concen: 3.789 ug/L

RT: 13.55 min Scan# 1911

Delta R.T. 0.79 min

Lab File: VW013636.D

Acq: 21 Oct 2019 15:25

Instrument :

MSVOA\_W

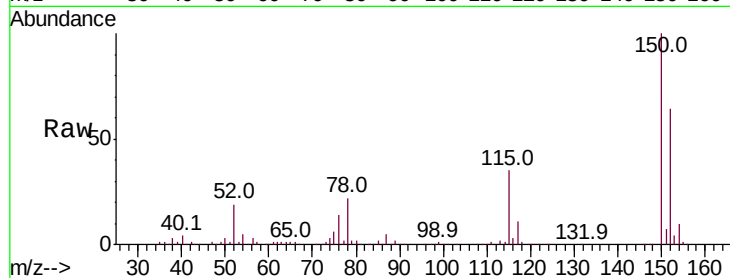
ClientSampleId :

Tot Ion: 75 Resp: 13101

Ion Ratio Lower Upper

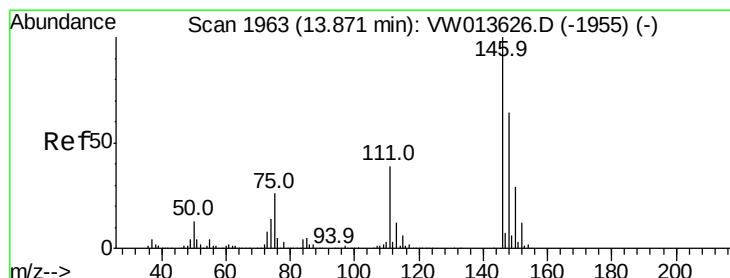
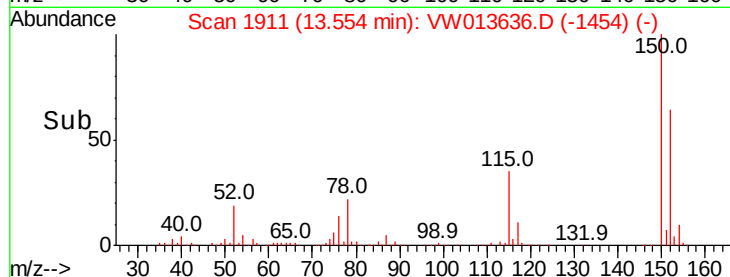
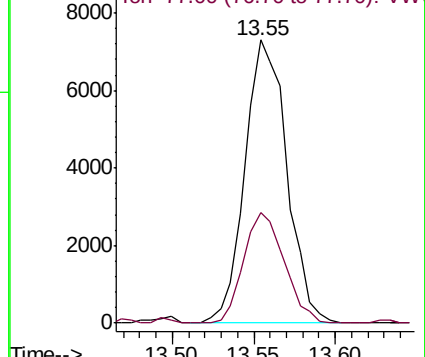
75 100

77 37.7 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#65

1,2-Dichlorobenzene

Concen: 1.090 ug/L

RT: 13.86 min Scan# 1962

Delta R.T. -0.01 min

Lab File: VW013636.D

Acq: 21 Oct 2019 15:25

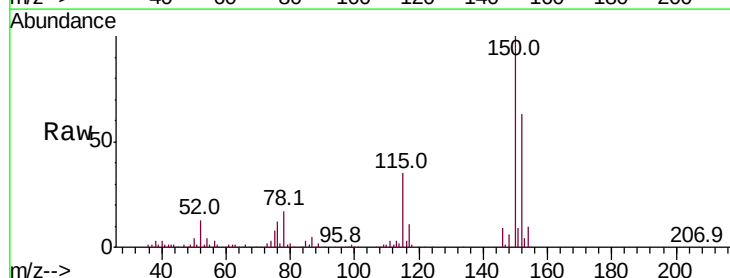
Tgt Ion: 146 Resp: 8544

Ion Ratio Lower Upper

146 100

111 34.0 30.7 46.1

148 60.9 53.3 79.9



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

