

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW120718\  
 Data File : VW007333.D  
 Acq On : 08 Dec 2018 04:19  
 Operator : SY/AP  
 Sample : J6270-02  
 Misc : 6.29G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 F9E01

Quant Time: Dec 08 05:49:24 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120718S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 08 04:46:36 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 107898   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 81543    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 30681    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 22640    | 32.21    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 128.84%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 17082    | 28.70    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 114.80%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 50666    | 20.90    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 83.60%   |
| 20) 2-Butanone-d5              | 7.08   | 46    | 15669    | 35.37    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 70.74%   |
| 24) Chloroform-d               | 7.65   | 84    | 69183    | 27.18    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 108.72%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 42215    | 29.14    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 116.56%  |
| 29) Benzene-d6                 | 8.27   | 84    | 133492   | 30.14    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 120.56%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 39975    | 31.63    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 126.52%# |
| 37) Toluene-d8                 | 10.32  | 98    | 116989   | 28.17    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 112.68%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 14314    | 22.15    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 88.60%   |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 11678    | 38.39    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 76.78%   |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 31252    | 27.14    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 108.56%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 30058    | 27.85    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 111.40%  |

## Target Compounds

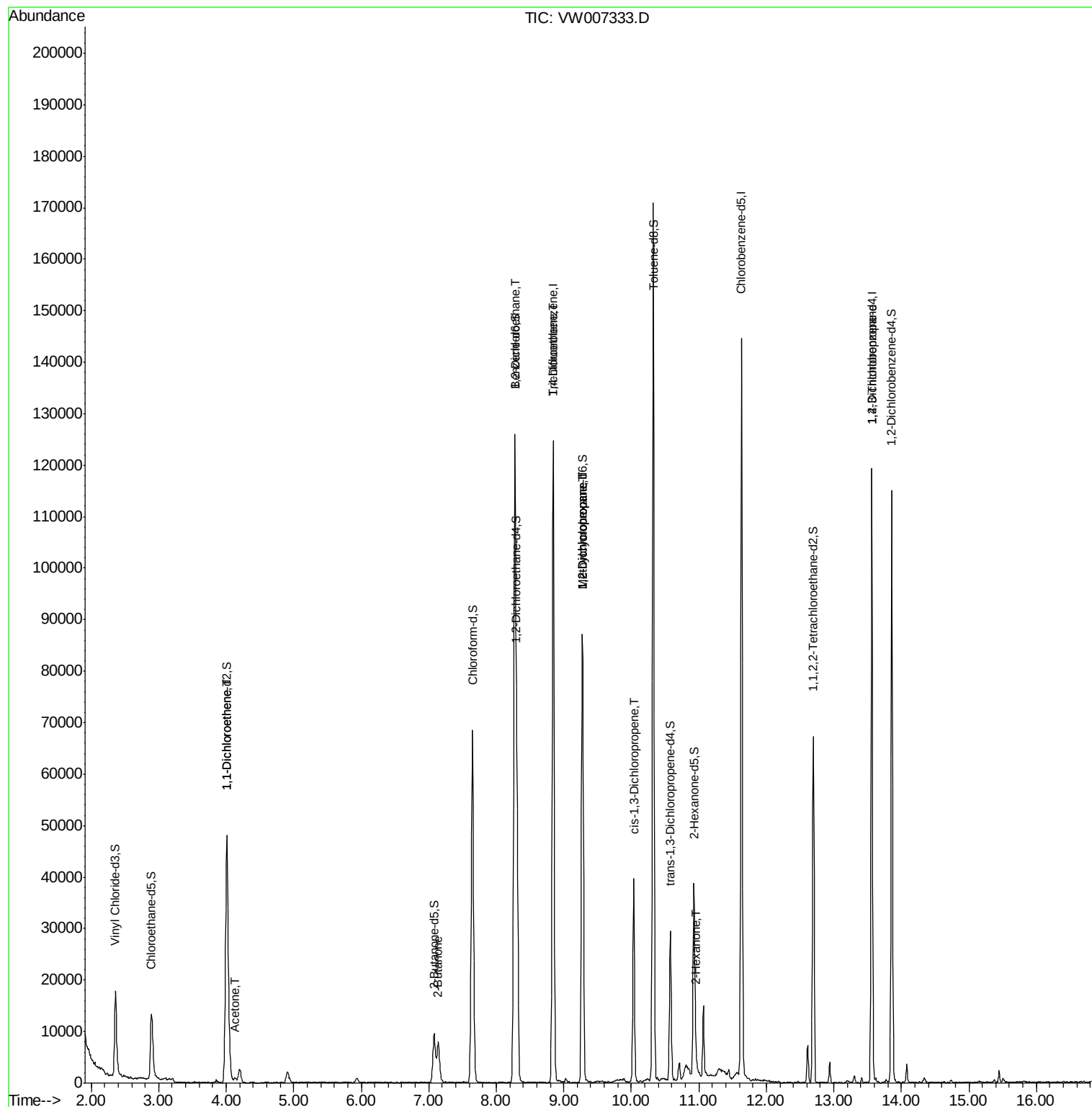
| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 12) 1,1-Dichloroethene      | 4.01  | 96   | 420      | 0.331 | ug/L # | 1      |
| 13) Acetone                 | 4.13  | 43   | 1064     | 2.066 | ug/L   | 67     |
| 21) 2-Butanone              | 7.14  | 43   | 2733     | 4.936 | ug/L # | 45     |
| 27) 1,2-Dichloroethane      | 8.27  | 62   | 845      | 0.471 | ug/L # | 76     |
| 35) Trichloroethene         | 8.84  | 95   | 3357     | 2.505 | ug/L # | 4      |
| 36) Methylcyclohexane       | 9.27  | 83   | 10048    | 4.343 | ug/L # | 20     |
| 40) 1,2-Dichloropropane     | 9.28  | 63   | 4630     | 4.050 | ug/L # | 86     |
| 42) cis-1,3-Dichloropropene | 10.03 | 75   | 1101     | 0.573 | ug/L   | 90     |
| 49) 2-Hexanone              | 10.96 | 43   | 1966     | 3.091 | ug/L # | 37     |
| 59) 1,2,3-Trichloropropane  | 13.56 | 75   | 3486     | 3.774 | ug/L   | 89     |

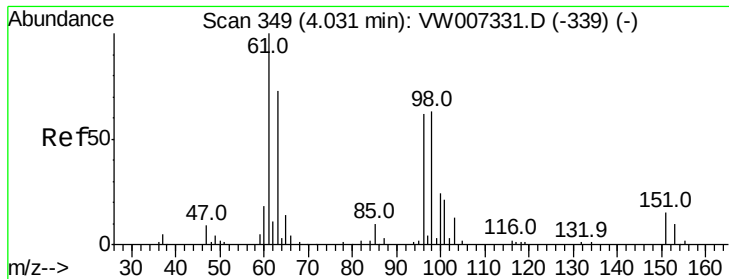
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : J6270-02  
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ALS Vial : 1 Sample Multiplier: 1

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MSVOA\_W  
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F9E01

Quant Time: Dec 08 05:49:24 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120718S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Dec 08 04:46:36 2018  
Response via : Initial Calibration

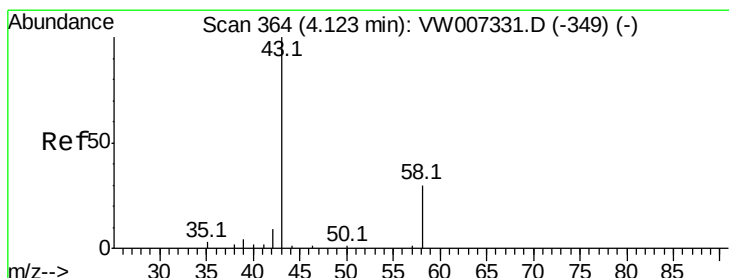
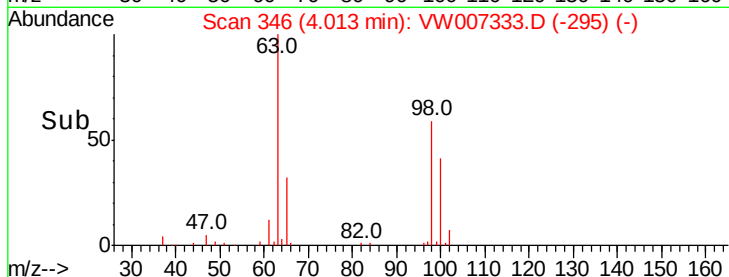
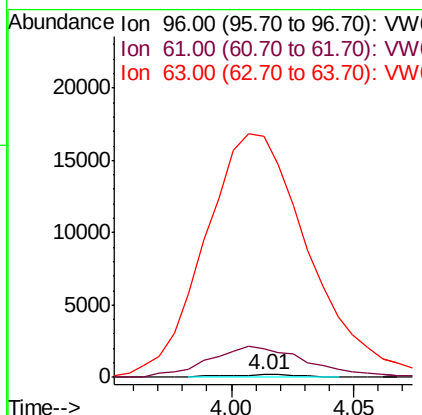
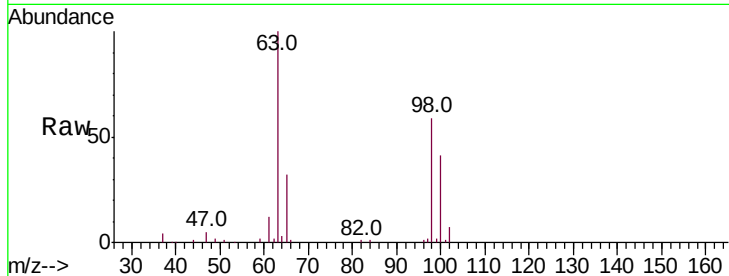




#12  
 1,1-Dichloroethene  
 Concen: 0.331 ug/L  
 RT: 4.01 min Scan# 346  
 Delta R.T. -0.02 min  
 Lab File: VW007333.D  
 Acq: 08 Dec 2018 04:19

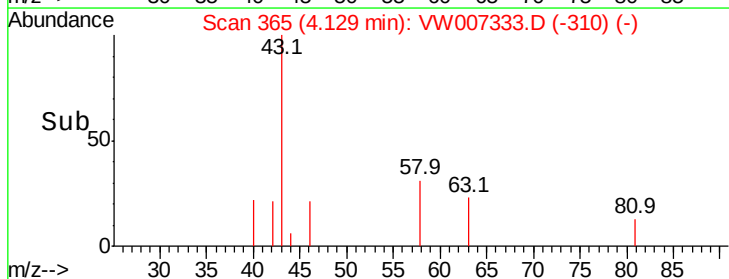
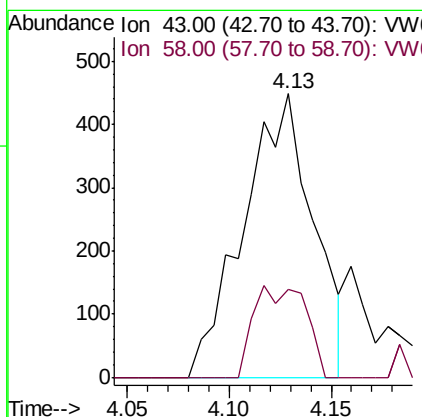
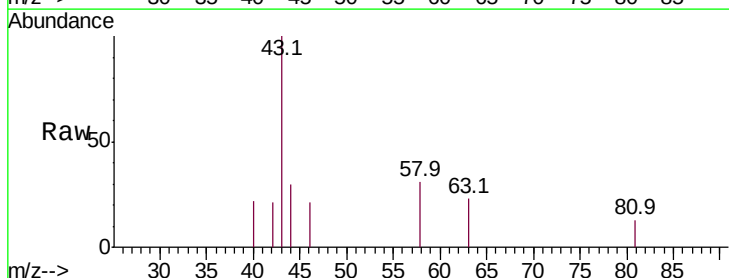
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 F9E01

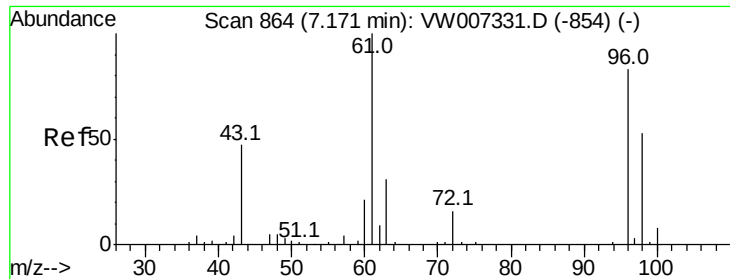
Tot Ion: 96 Resp: 420  
 Ion Ratio Lower Upper  
 96 100  
 61 964.9 117.2 217.8#  
 63 8233.7 89.7 166.7#



#13  
 Acetone  
 Concen: 2.066 ug/L  
 RT: 4.13 min Scan# 365  
 Delta R.T. 0.01 min  
 Lab File: VW007333.D  
 Acq: 08 Dec 2018 04:19

Tgt Ion: 43 Resp: 1064  
 Ion Ratio Lower Upper  
 43 100  
 58 12.0 0.0 59.2





#21

2-Butanone

Concen: 4.936 ug/L

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW007333.D

Acq: 08 Dec 2018 04:19

Instrument :

MSVOA\_W

ClientSampleId :

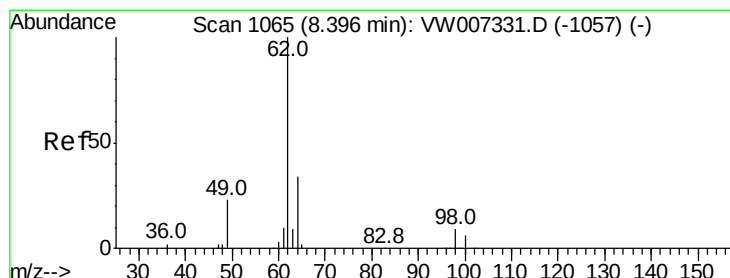
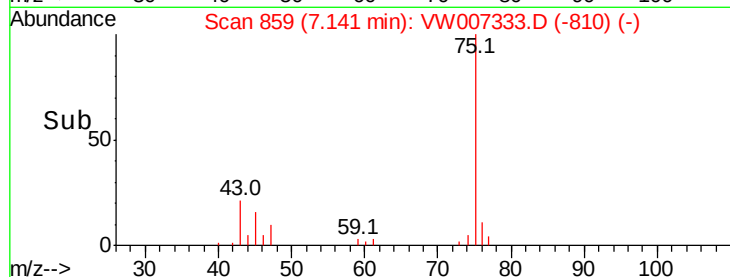
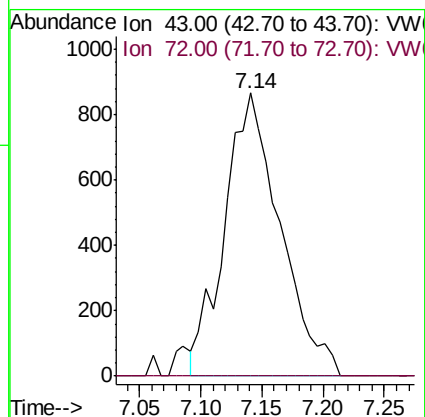
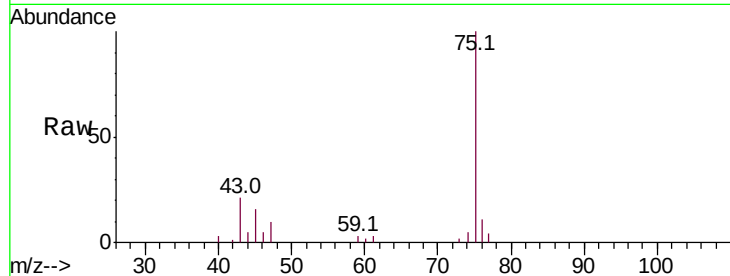
F9E01

Tot Ion: 43 Resp: 2733

Ion Ratio Lower Upper

43 100

72 0.0 14.7 44.1#



#27

1,2-Dichloroethane

Concen: 0.471 ug/L

RT: 8.27 min Scan# 1045

Delta R.T. -0.12 min

Lab File: VW007333.D

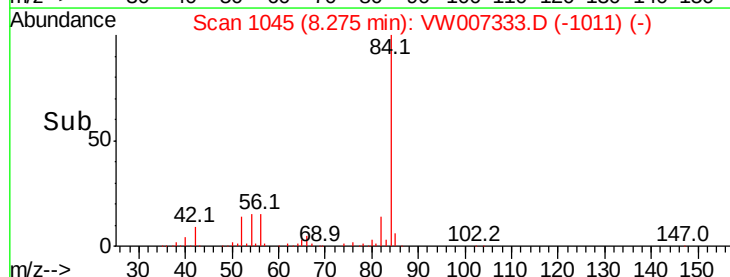
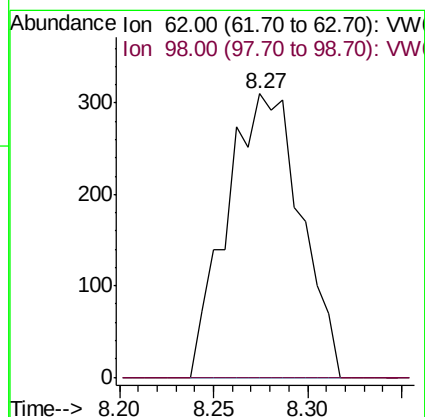
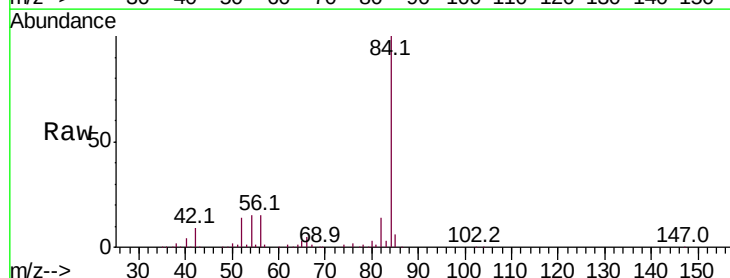
Acq: 08 Dec 2018 04:19

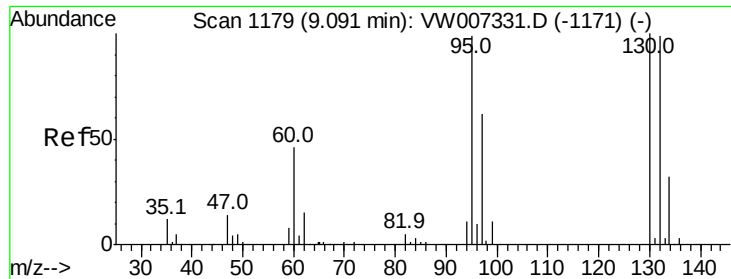
Tgt Ion: 62 Resp: 845

Ion Ratio Lower Upper

62 100

98 0.0 6.9 10.3#





#35

Trichloroethene

Concen: 2.505 ug/L

RT: 8.84 min Scan# 1138

Delta R.T. -0.25 min

Lab File: VW007333.D

Acq: 08 Dec 2018 04:19

Instrument :

MSVOA\_W

ClientSampleId :

F9E01

Tot Ion: 95 Resp: 3357

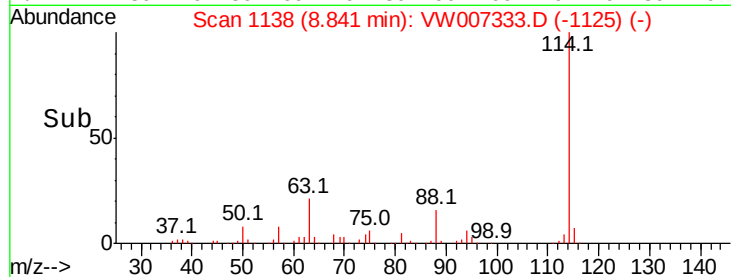
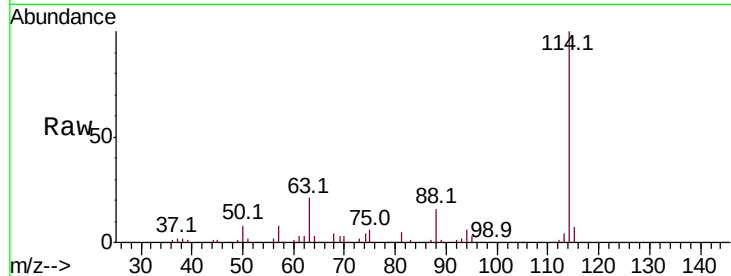
Ion Ratio Lower Upper

95 100

97 0.0 45.8 85.0#

132 0.0 68.0 126.4#

130 0.0 71.6 133.0#

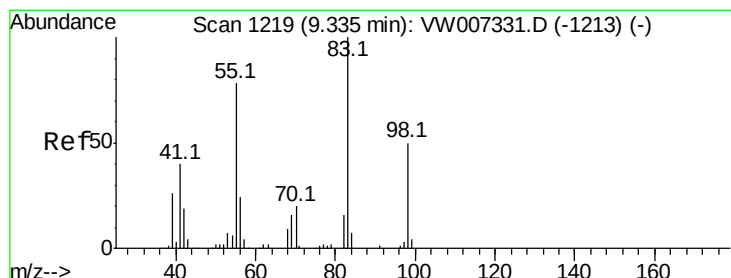
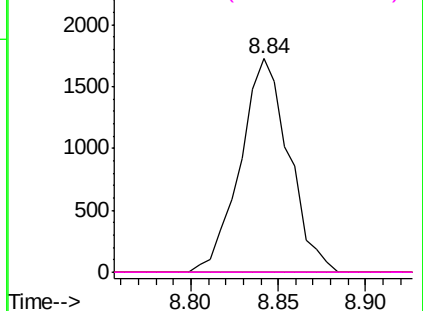


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 4.343 ug/L

RT: 9.27 min Scan# 1209

Delta R.T. -0.06 min

Lab File: VW007333.D

Acq: 08 Dec 2018 04:19

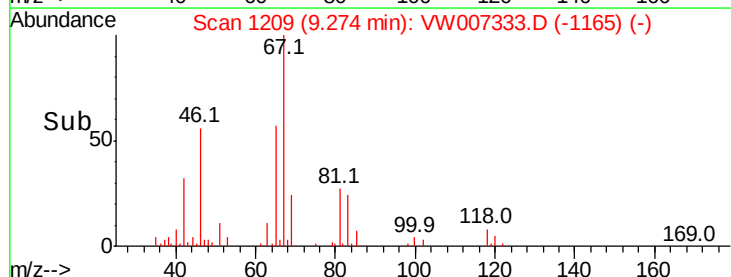
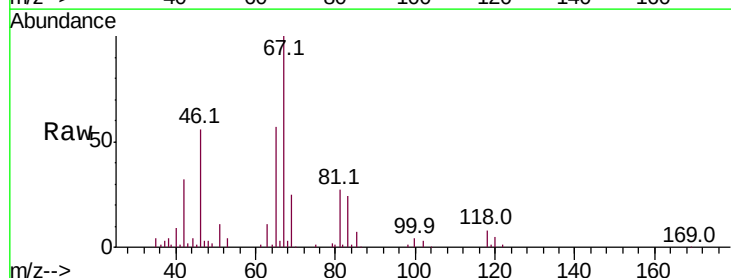
Tgt Ion: 83 Resp: 10048

Ion Ratio Lower Upper

83 100

55 0.0 59.4 89.2#

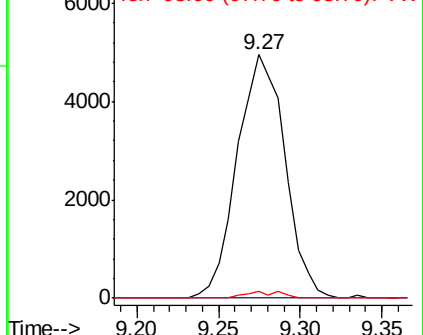
98 1.3 38.1 57.1#

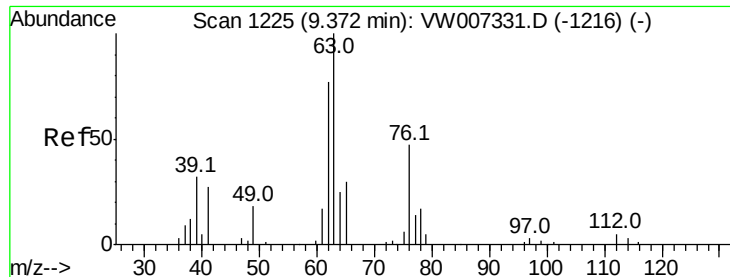


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 4.050 ug/L

RT: 9.28 min Scan# 1210

Delta R.T. -0.09 min

Lab File: VW007333.D

Acq: 08 Dec 2018 04:19

Instrument :

MSVOA\_W

ClientSampled :

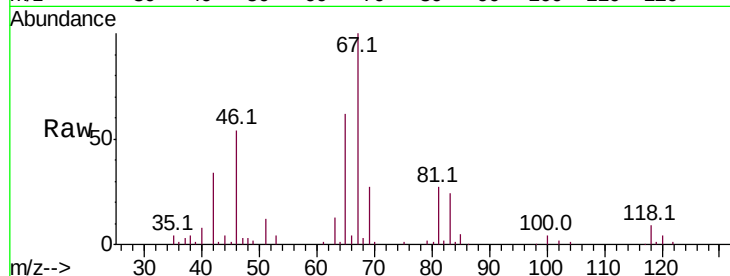
F9E01

Tot Ion: 63 Resp: 4630

Ion Ratio Lower Upper

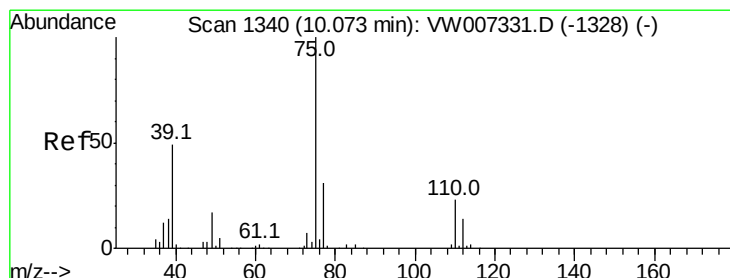
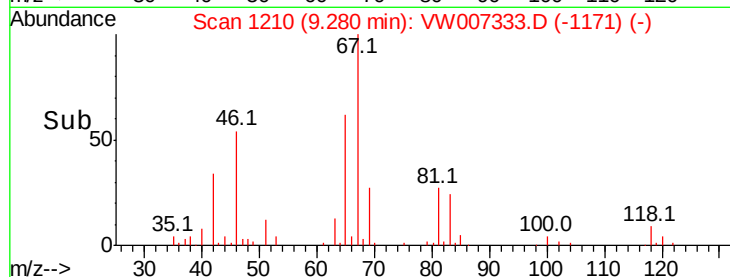
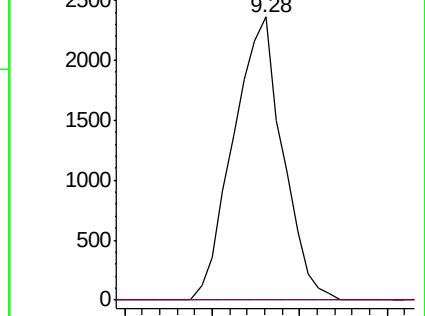
63 100

112 0.0 3.6 5.4#



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): VW



#42

cis-1,3-Dichloropropene

Concen: 0.573 ug/L

RT: 10.03 min Scan# 1333

Delta R.T. -0.04 min

Lab File: VW007333.D

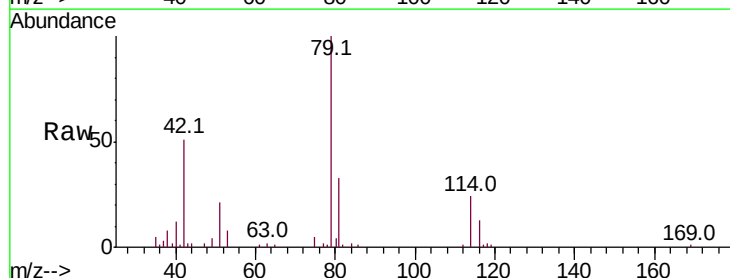
Acq: 08 Dec 2018 04:19

Tgt Ion: 75 Resp: 1101

Ion Ratio Lower Upper

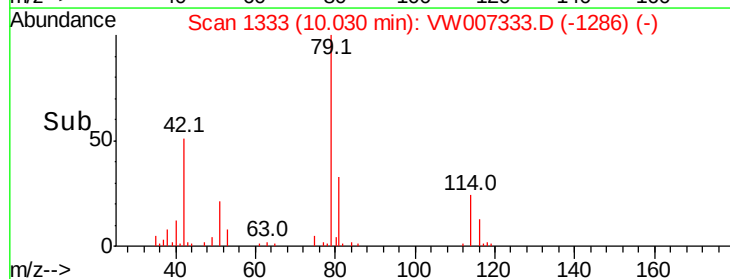
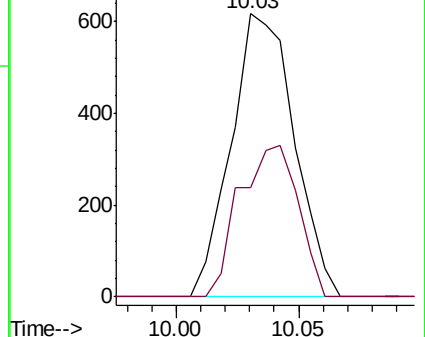
75 100

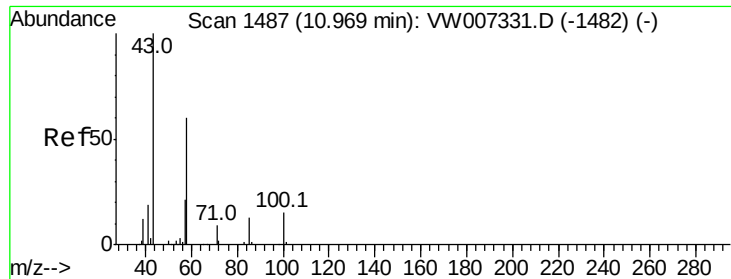
77 38.4 23.0 42.6



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#49

2-Hexanone

Concen: 3.091 ug/L

RT: 10.96 min Scan# 1485

Delta R.T. -0.01 min

Lab File: VW007333.D

Acq: 08 Dec 2018 04:19

Instrument :

MSVOA\_W

ClientSampled :

F9E01

Tot Ion: 43 Resp: 1966

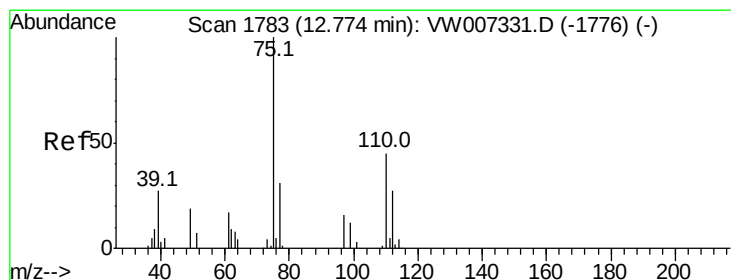
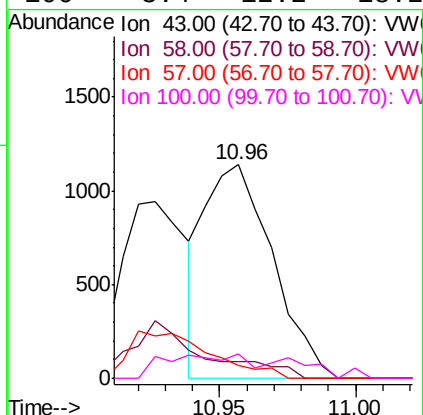
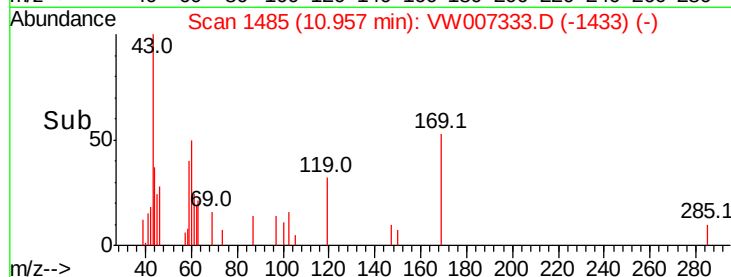
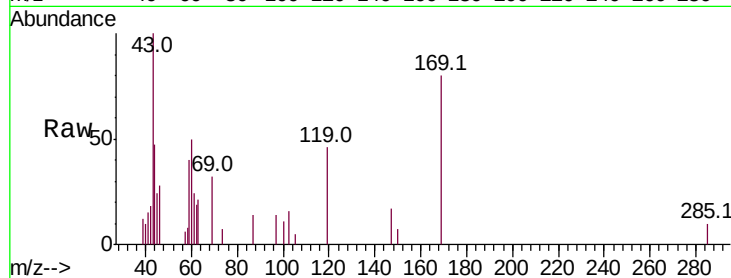
Ion Ratio Lower Upper

43 100

58 0.0 47.2 70.8#

57 0.0 17.6 26.4#

100 3.4 12.2 18.2#



#59

1,2,3-Trichloropropane

Concen: 3.774 ug/L

RT: 13.56 min Scan# 1912

Delta R.T. 0.79 min

Lab File: VW007333.D

Acq: 08 Dec 2018 04:19

Tgt Ion: 75 Resp: 3486

Ion Ratio Lower Upper

75 100

77 39.5 26.5 39.7

