

Data File : VW011269.D  
Acq On : 15 Jul 2019 18:51  
Operator : SY/VA  
Sample : K3798-06  
Misc : 4.73G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A52H0

Quant Time: Jul 16 05:07:12 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070219S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jul 16 05:02:41 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 260994   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 210157   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 71340    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.34   | 65    | 63052    | 15.82    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 63.28%   |
| 7) Chloroethane-d5             | 2.88   | 69    | 53124    | 19.00    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 76.00%   |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 117195   | 13.89    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 55.56%   |
| 20) 2-Butanone-d5              | 7.07   | 46    | 118389   | 75.41    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 150.82%# |
| 24) Chloroform-d               | 7.65   | 84    | 162036   | 22.65    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 90.60%   |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 113921   | 25.86    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 103.44%  |
| 29) Benzene-d6                 | 8.27   | 84    | 318473   | 24.60    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 98.40%   |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 115404   | 27.37    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 109.48%  |
| 37) Toluene-d8                 | 10.32  | 98    | 258724   | 22.42    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 89.68%   |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 44514    | 24.83    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 99.32%   |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 79146    | 81.86    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 163.72%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 112520   | 32.27    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 129.08%# |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 65390    | 23.88    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 95.52%   |

#### Target Compounds

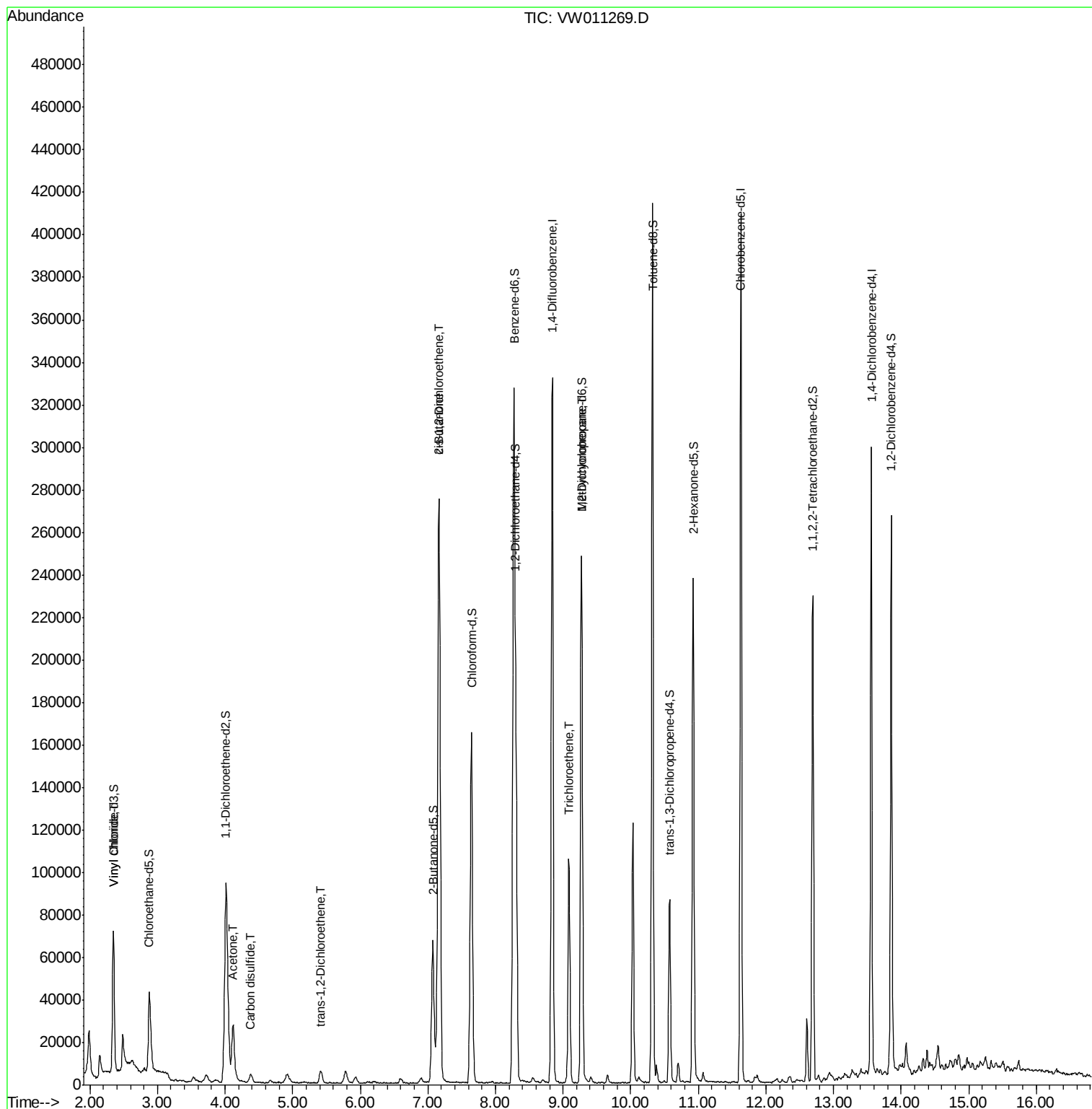
|                              |      |    |        |              | Qvalue |
|------------------------------|------|----|--------|--------------|--------|
| 5) Vinyl chloride            | 2.35 | 62 | 12358  | 2.717 ug/L   | 88     |
| 13) Acetone                  | 4.12 | 43 | 47902  | 31.240 ug/L  | 100    |
| 14) Carbon disulfide         | 4.38 | 76 | 7891   | 0.804 ug/L   | 98     |
| 18) trans-1,2-Dichloroethene | 5.41 | 96 | 2253   | 0.650 ug/L   | 79     |
| 21) 2-Butanone               | 7.17 | 43 | 12584  | 6.357 ug/L   | 79     |
| 22) cis-1,2-Dichloroethene   | 7.17 | 96 | 150152 | 40.023 ug/L  | 98     |
| 35) Trichloroethene          | 9.09 | 95 | 35108  | 10.592 ug/L  | 98     |
| 36) Methylcyclohexane        | 9.27 | 83 | 25154  | 4.217 ug/L # | 14     |

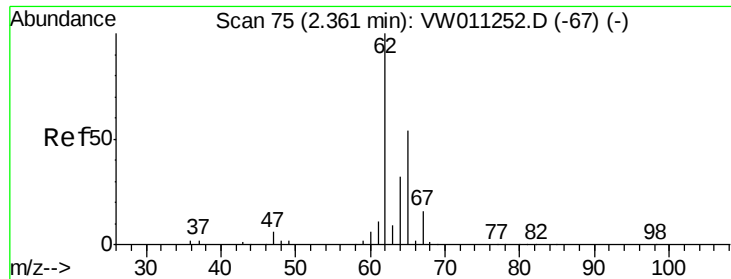
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 2.717 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

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Acq: 15 Jul 2019 18:51

Instrument :

MSVOA\_W

ClientSampleId :

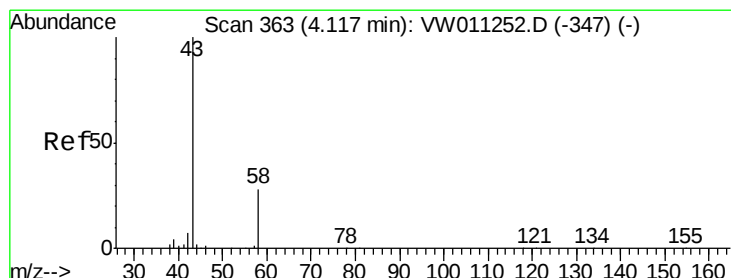
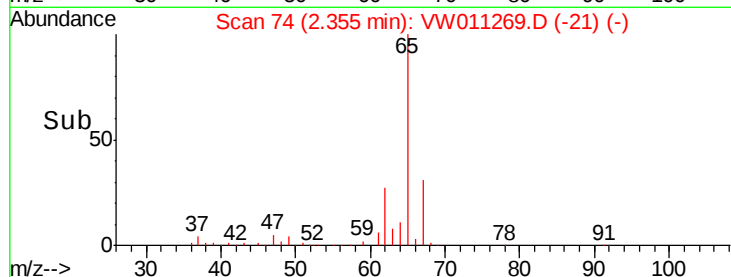
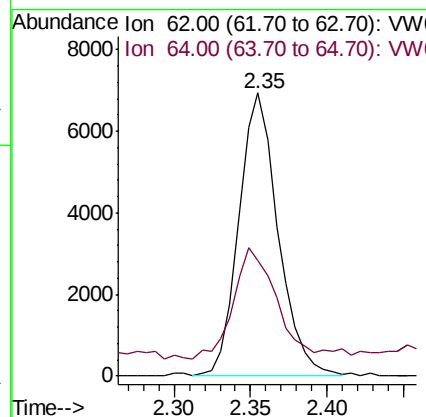
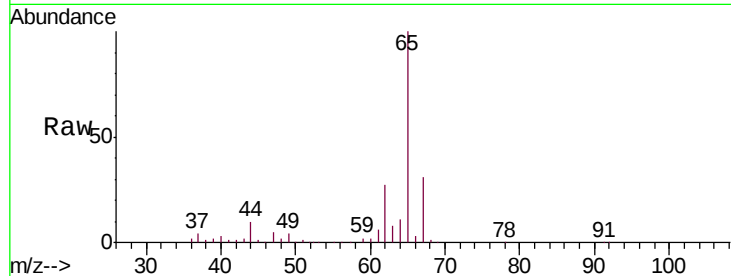
A52H0

Tgt Ion: 62 Resp: 12358

Ion Ratio Lower Upper

62 100

64 40.7 23.9 44.3



#13

Acetone

Concen: 31.240 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW011269.D

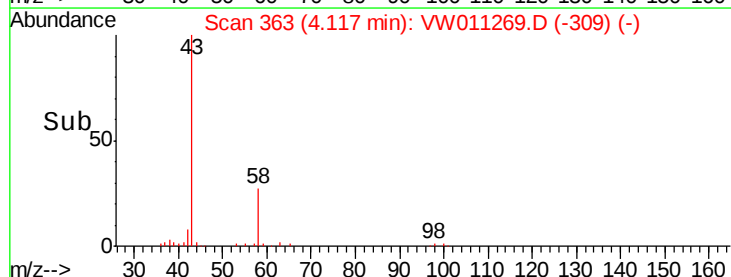
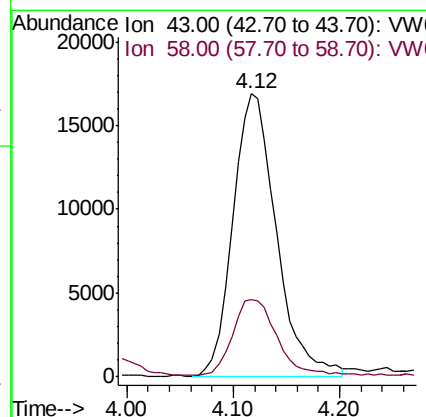
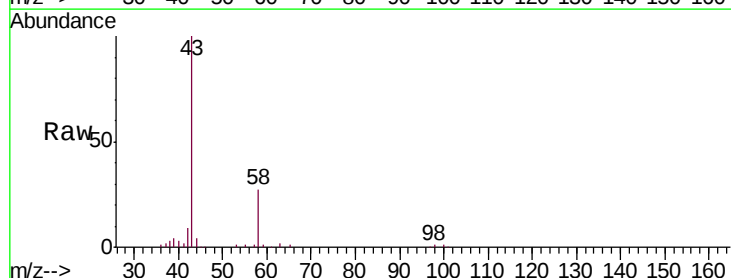
Acq: 15 Jul 2019 18:51

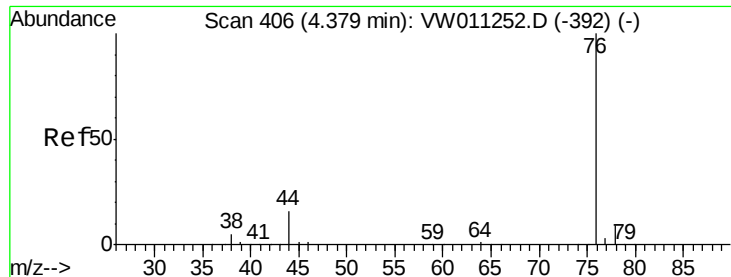
Tgt Ion: 43 Resp: 47902

Ion Ratio Lower Upper

43 100

58 27.5 0.0 55.0





#14

Carbon disulfide

Concen: 0.804 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW011269.D

Acq: 15 Jul 2019 18:51

Instrument :

MSVOA\_W

ClientSampled :

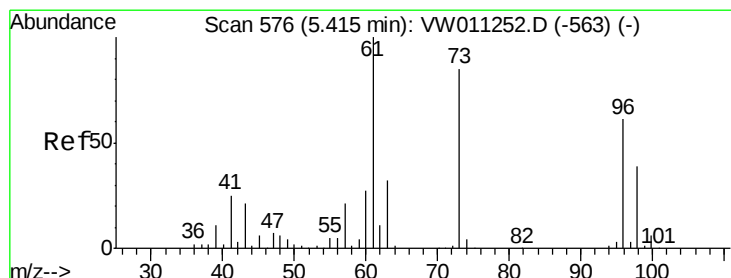
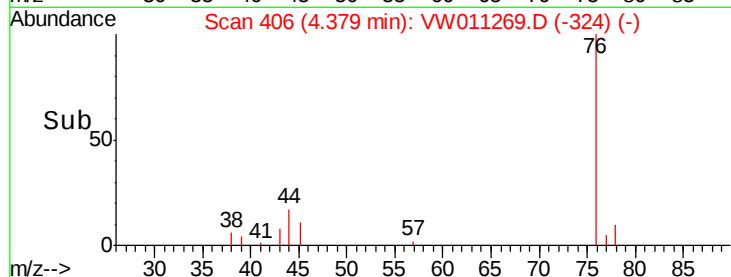
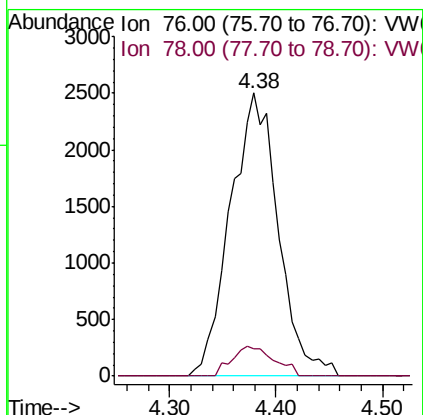
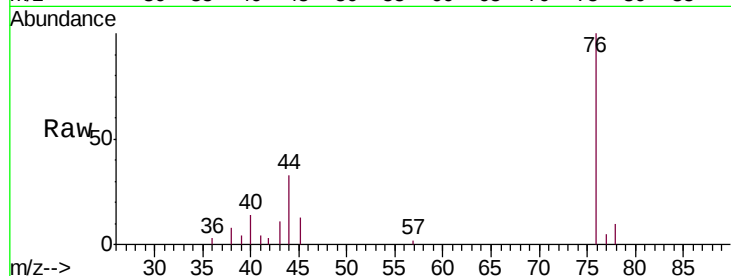
A52H0

Tgt Ion: 76 Resp: 7891

Ion Ratio Lower Upper

76 100

78 9.9 7.3 10.9



#18

trans-1,2-Dichloroethene

Concen: 0.650 ug/L

RT: 5.41 min Scan# 575

Delta R.T. -0.01 min

Lab File: VW011269.D

Acq: 15 Jul 2019 18:51

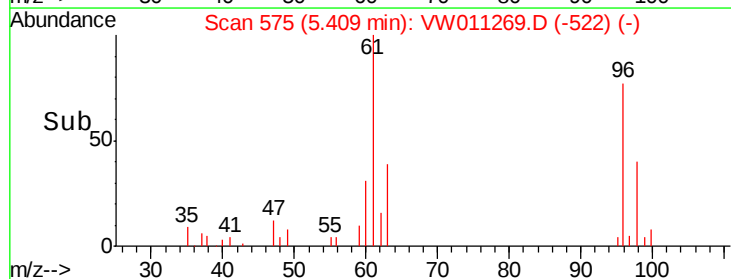
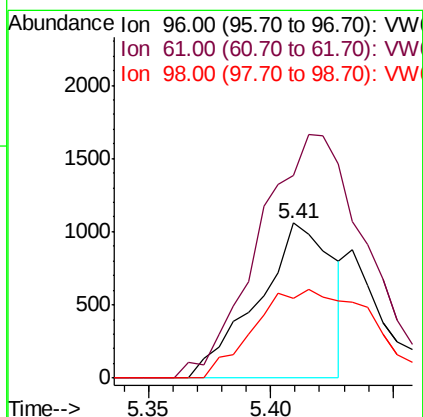
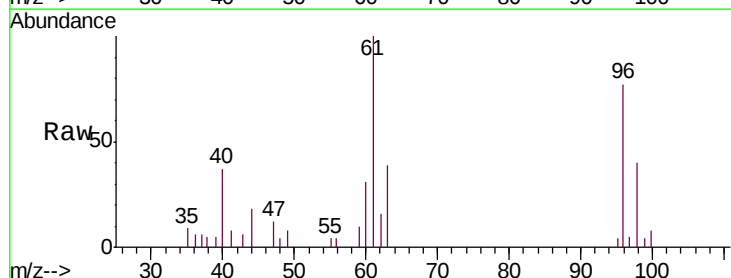
Tgt Ion: 96 Resp: 2253

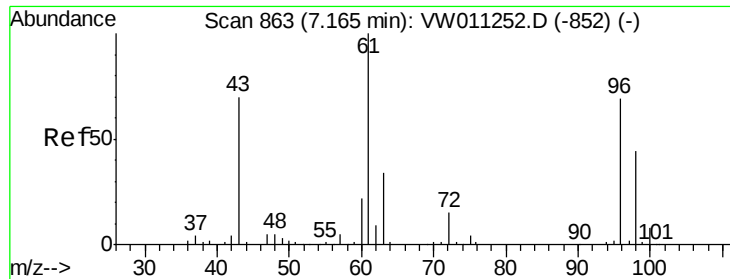
Ion Ratio Lower Upper

96 100

61 130.6 113.7 211.1

98 51.8 43.3 80.3





#21

2-Butanone

Concen: 6.357 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW011269.D

Acq: 15 Jul 2019 18:51

Instrument :

MSVOA\_W

ClientSampled :

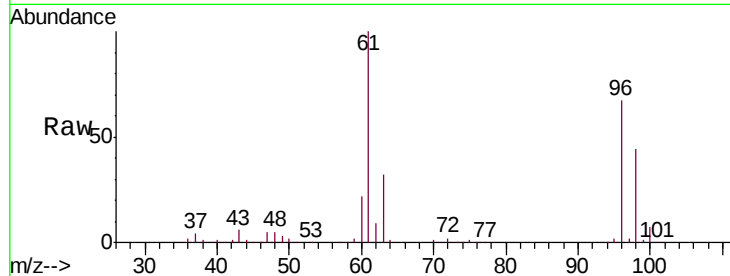
A52H0

Tgt Ion: 43 Resp: 12584

Ion Ratio Lower Upper

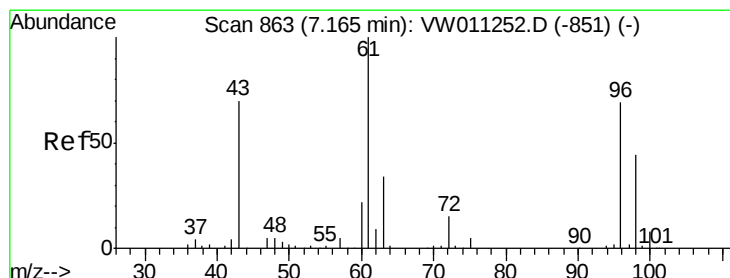
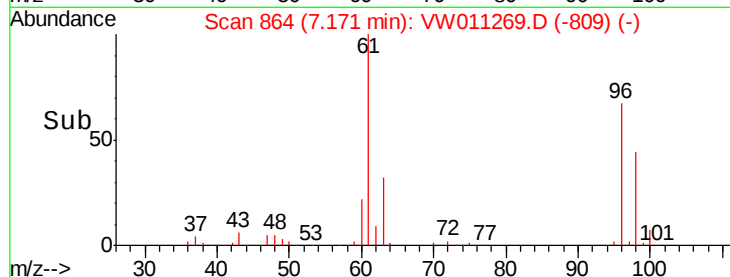
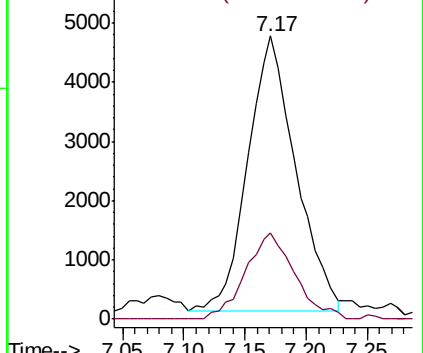
43 100

72 32.4 11.2 33.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#22

cis-1,2-Dichloroethene

Concen: 40.023 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW011269.D

Acq: 15 Jul 2019 18:51

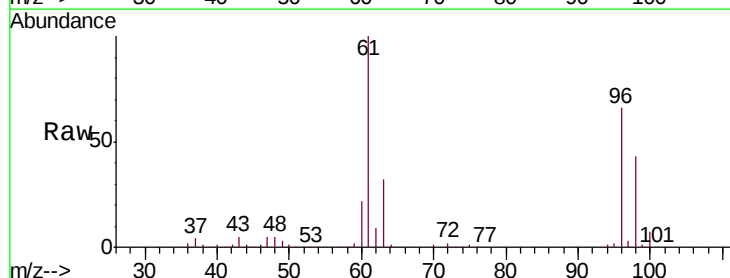
Tgt Ion: 96 Resp: 150152

Ion Ratio Lower Upper

96 100

61 150.4 103.2 191.6

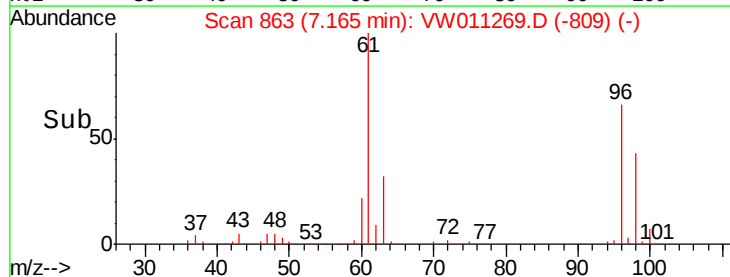
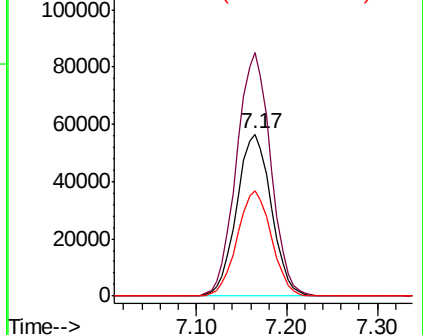
98 65.2 44.8 83.2

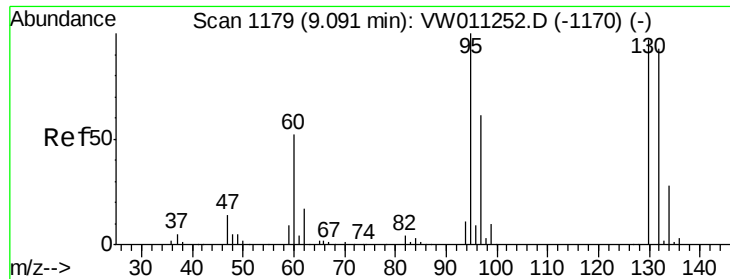


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW





#35

Trichloroethene

Concen: 10.592 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW011269.D

Acq: 15 Jul 2019 18:51

Instrument :

MSVOA\_W

ClientSampled :

A52H0

Tgt Ion: 95 Resp: 35108

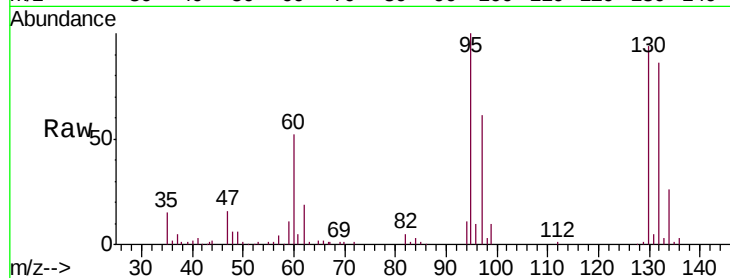
Ion Ratio Lower Upper

95 100

97 64.2 45.4 84.2

132 90.9 65.0 120.8

130 94.9 67.8 126.0



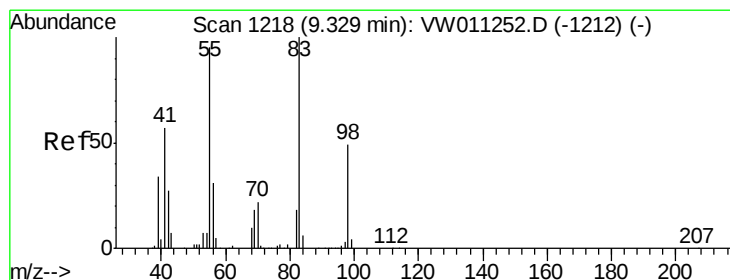
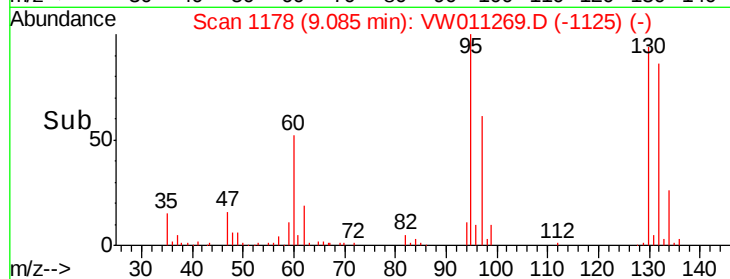
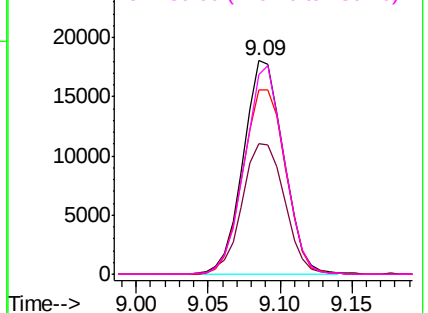
Abundance

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): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 4.217 ug/L

RT: 9.27 min Scan# 1209

Delta R.T. -0.05 min

Lab File: VW011269.D

Acq: 15 Jul 2019 18:51

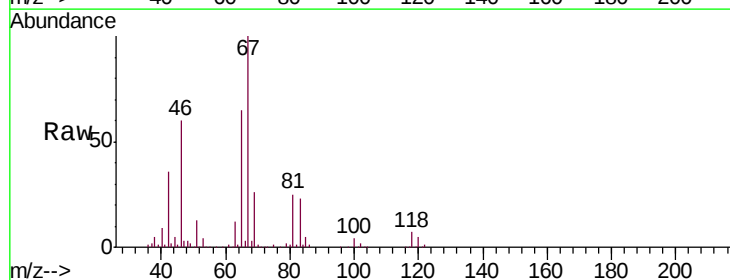
Tgt Ion: 83 Resp: 25154

Ion Ratio Lower Upper

83 100

55 0.5 72.2 108.4#

98 1.7 38.2 57.4#



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

