

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW120718\  
 Data File : VW007315.D  
 Acq On : 07 Dec 2018 18:49  
 Operator : SY/AP  
 Sample : J6171-19  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VHBLK01

Quant Time: Dec 08 02:06:14 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM120718S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 08 02:02:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 132753   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 113454   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 56600    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 22986    | 26.58    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 106.32% |
| 7) Chloroethane-d5             | 2.89   | 69    | 18319    | 25.02    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 100.08% |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 57094    | 19.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 76.56%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 25797    | 47.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 94.66%  |
| 24) Chloroform-d               | 7.65   | 84    | 74863    | 23.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 95.64%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 43722    | 24.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 98.12%  |
| 29) Benzene-d6                 | 8.27   | 84    | 152883   | 24.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 99.24%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 42853    | 24.37    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 97.48%  |
| 37) Toluene-d8                 | 10.32  | 98    | 143308   | 24.80    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 99.20%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 21638    | 24.07    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 96.28%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 19856    | 46.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 93.82%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 37302    | 23.28    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 93.12%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 49262    | 24.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 98.96%  |

## Target Compounds

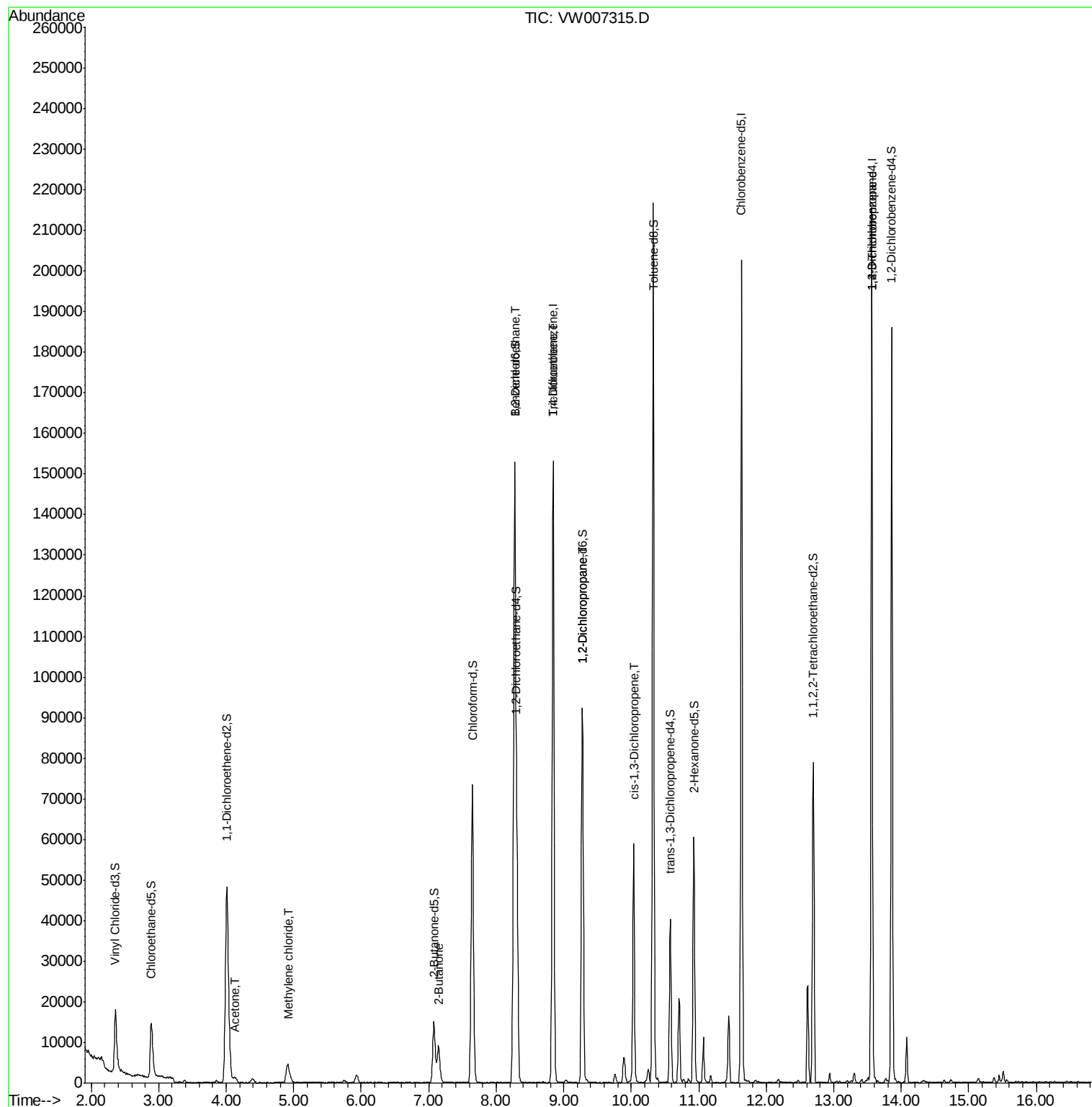
|                             |       |    |      |              | Ovalue |
|-----------------------------|-------|----|------|--------------|--------|
| 13) Acetone                 | 4.12  | 43 | 1731 | 2.731 ug/L   | 85     |
| 16) Methylene chloride      | 4.92  | 84 | 3944 | 1.839 ug/L   | 97     |
| 21) 2-Butanone              | 7.16  | 43 | 478  | 0.702 ug/L # | 45     |
| 27) 1,2-Dichloroethane      | 8.27  | 62 | 960  | 0.435 ug/L # | 76     |
| 35) Trichloroethene         | 8.84  | 95 | 4411 | 2.365 ug/L # | 5      |
| 40) 1,2-Dichloropropane     | 9.27  | 63 | 5158 | 3.243 ug/L # | 86     |
| 42) cis-1,3-Dichloropropene | 10.03 | 75 | 1530 | 0.573 ug/L # | 75     |
| 59) 1,2,3-Trichloropropane  | 13.56 | 75 | 6146 | 4.782 ug/L   | 90     |

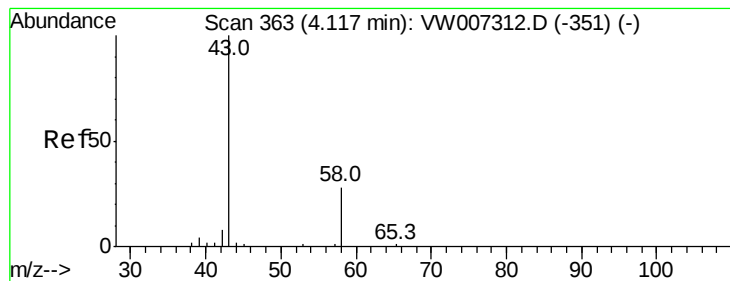
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Sat Dec 08 02:02:23 2018  
Response via : Initial Calibration





#13

Acetone

Concen: 2.731 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007315.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA\_W

ClientSampleId :

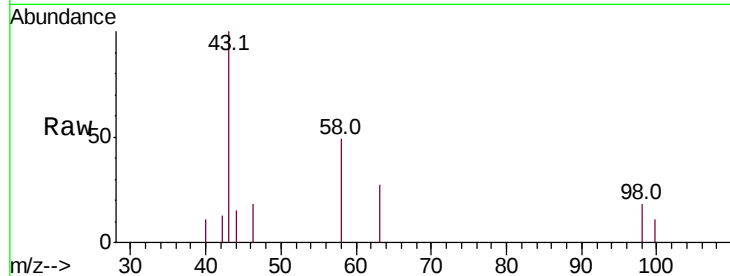
VHBLK01

Tot Ion: 43 Resp: 1731

Ion Ratio Lower Upper

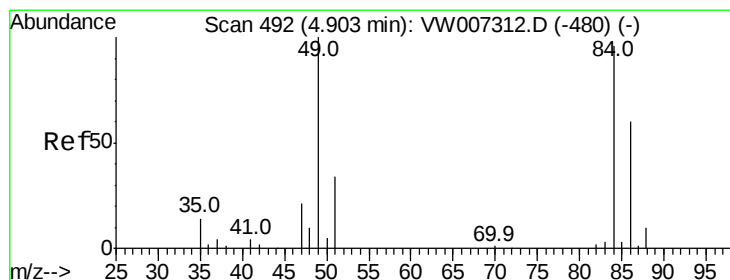
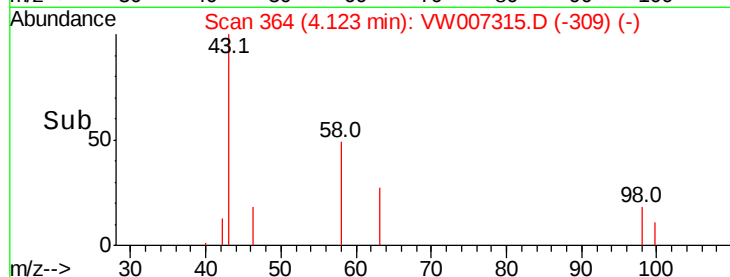
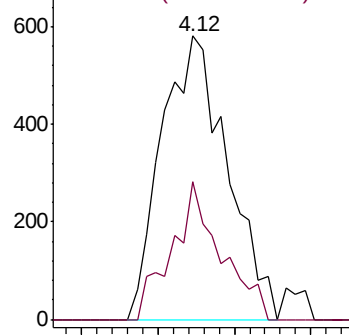
43 100

58 21.5 0.0 59.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#16

Methylene chloride

Concen: 1.839 ug/L

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW007315.D

Acq: 07 Dec 2018 18:49

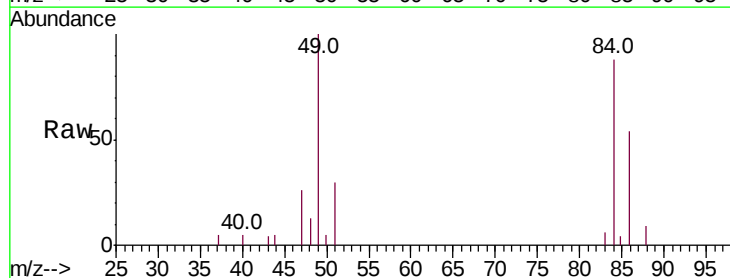
Tgt Ion: 84 Resp: 3944

Ion Ratio Lower Upper

84 100

49 114.1 80.8 150.2

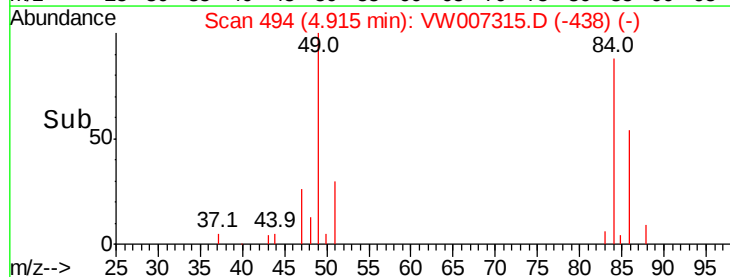
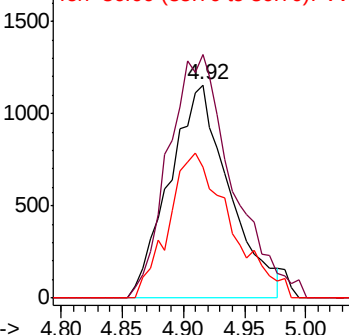
86 61.1 45.8 85.2

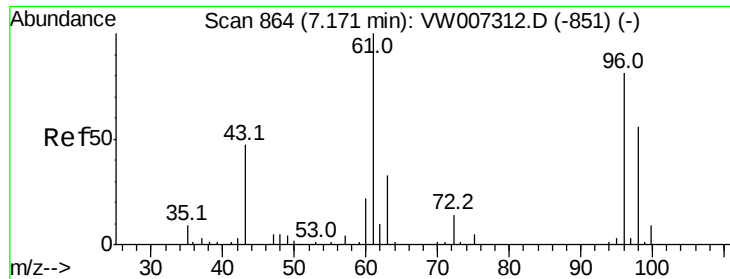


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW





#21

2-Butanone

Concen: 0.702 ug/L

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW007315.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA\_W

ClientSampleId :

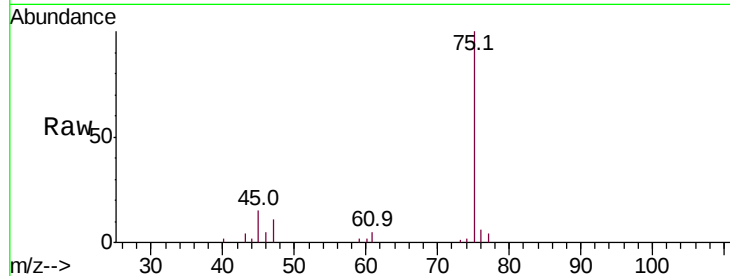
VHBLK01

Tot Ion: 43 Resp: 478

Ion Ratio Lower Upper

43 100

72 0.0 14.7 44.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.16

150

100

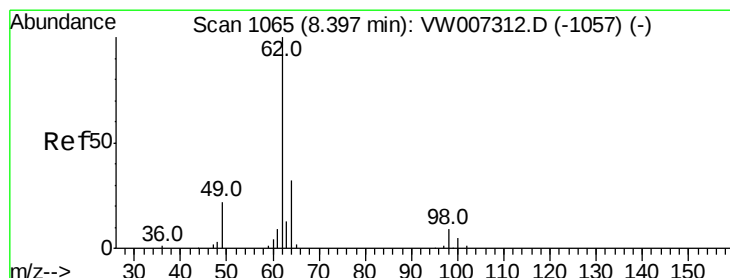
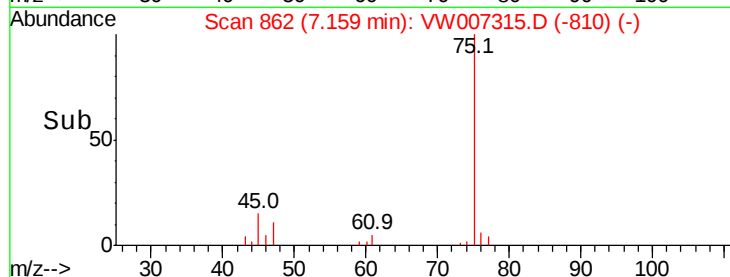
50

0

7.15

7.20

Time-->



#27

1,2-Dichloroethane

Concen: 0.435 ug/L

RT: 8.27 min Scan# 1045

Delta R.T. -0.12 min

Lab File: VW007315.D

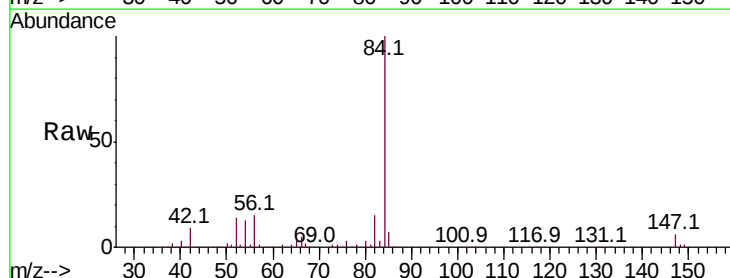
Acq: 07 Dec 2018 18:49

Tgt Ion: 62 Resp: 960

Ion Ratio Lower Upper

62 100

98 0.0 6.9 10.3#



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

8.27

500

400

300

200

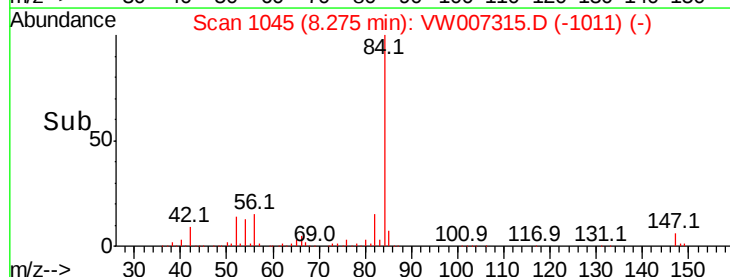
100

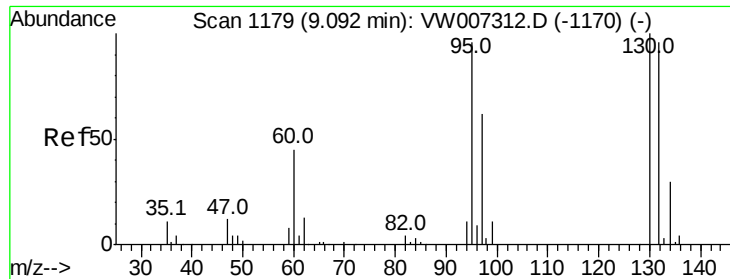
0

8.25

8.30

Time-->





#35

Trichloroethene

Concen: 2.365 ug/L

RT: 8.84 min Scan# 1138

Delta R.T. -0.25 min

Lab File: VW007315.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA\_W

ClientSampleId :

VHBLK01

Tot Ion: 95 Resp: 4411

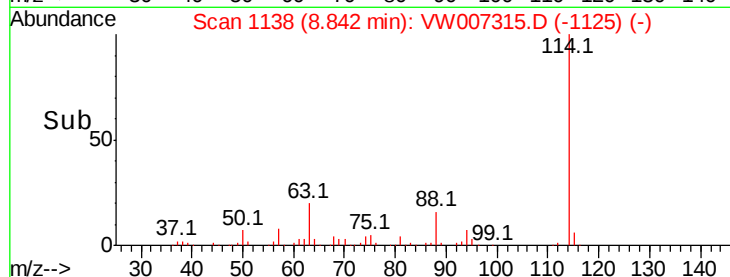
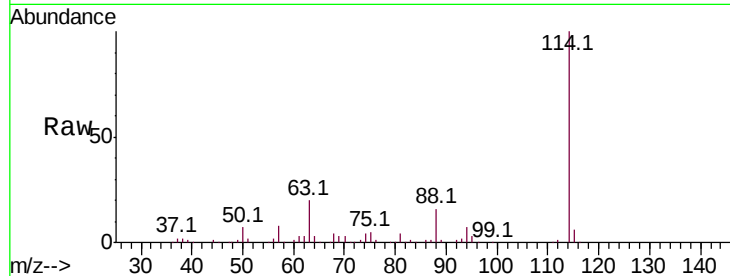
Ion Ratio Lower Upper

95 100

97 0.0 45.8 85.0#

132 0.7 68.0 126.4#

130 1.6 71.6 133.0#

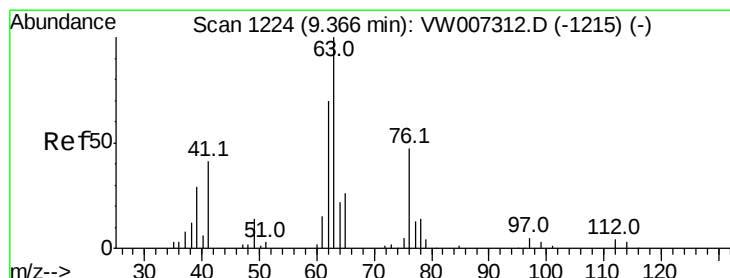
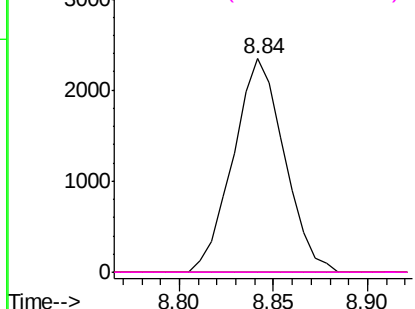


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#40

1,2-Dichloropropane

Concen: 3.243 ug/L

RT: 9.27 min Scan# 1209

Delta R.T. -0.09 min

Lab File: VW007315.D

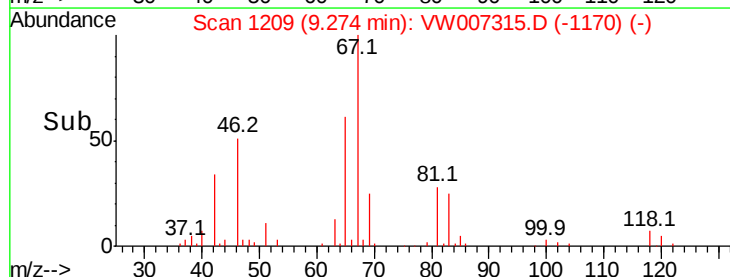
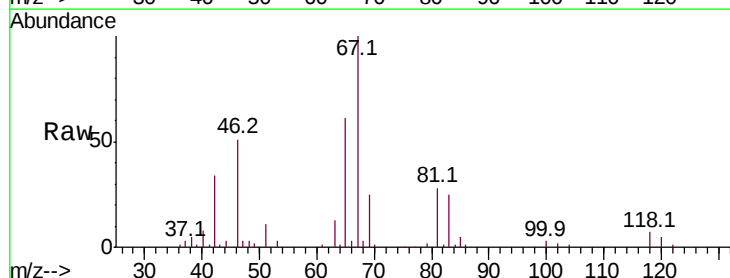
Acq: 07 Dec 2018 18:49

Tgt Ion: 63 Resp: 5158

Ion Ratio Lower Upper

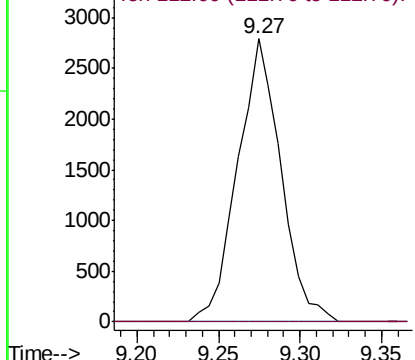
63 100

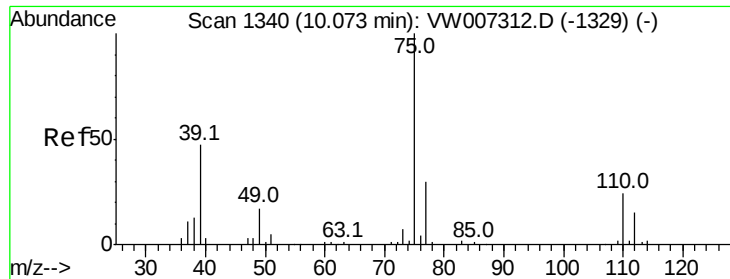
112 0.0 3.6 5.4#



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V





#42

cis-1,3-Dichloropropene

Concen: 0.573 ug/L

RT: 10.03 min Scan# 1333

Delta R.T. -0.04 min

Lab File: VW007315.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA\_W

ClientSampleId :

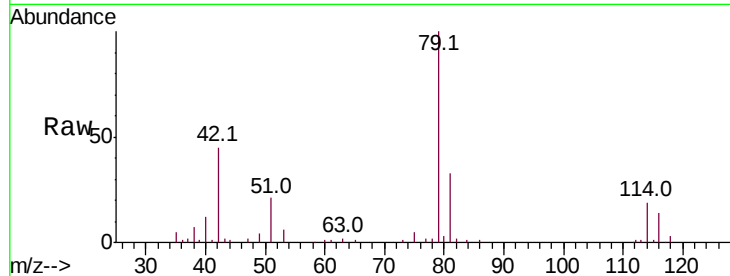
VHBLK01

Tot Ion: 75 Resp: 1530

Ion Ratio Lower Upper

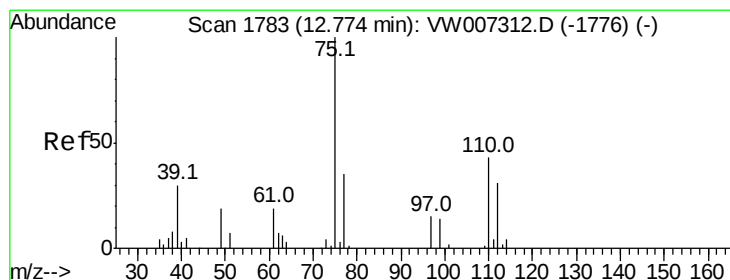
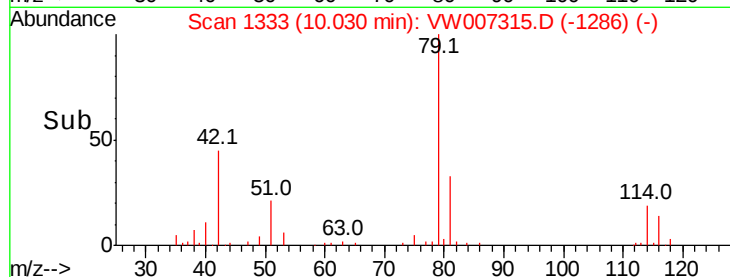
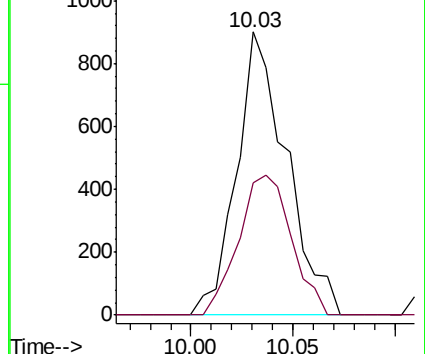
75 100

77 46.9 23.0 42.6#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#59

1,2,3-Trichloropropane

Concen: 4.782 ug/L

RT: 13.56 min Scan# 1912

Delta R.T. 0.79 min

Lab File: VW007315.D

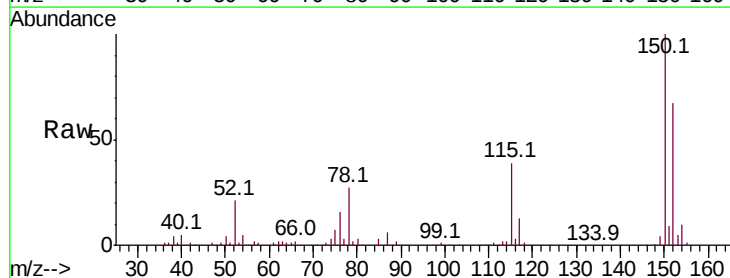
Acq: 07 Dec 2018 18:49

Tgt Ion: 75 Resp: 6146

Ion Ratio Lower Upper

75 100

77 39.0 26.5 39.7



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

