

Data File : VW006921.D  
Acq On : 16 Nov 2018 17:23  
Operator : SY/AP  
Sample : J5979-02  
Misc : 5.02G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
ETO65

Quant Time: Nov 16 23:54:54 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111418S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 16 23:51:03 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 103548   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 88930    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 31701    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 20692    | 22.51    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 90.04%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 17153    | 25.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 102.72% |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 45190    | 18.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 73.60%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 17542    | 34.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 69.24%  |
| 24) Chloroform-d               | 7.65   | 84    | 60959    | 26.59    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 106.36% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 36244    | 28.01    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 112.04% |
| 29) Benzene-d6                 | 8.28   | 84    | 120561   | 25.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 103.72% |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 38196    | 26.84    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 107.36% |
| 37) Toluene-d8                 | 10.33  | 98    | 120365   | 25.28    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 101.12% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 14386    | 23.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 94.12%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 14362    | 40.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 81.02%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 25274    | 20.52    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 82.08%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 28407    | 23.66    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 94.64%  |

#### Target Compounds

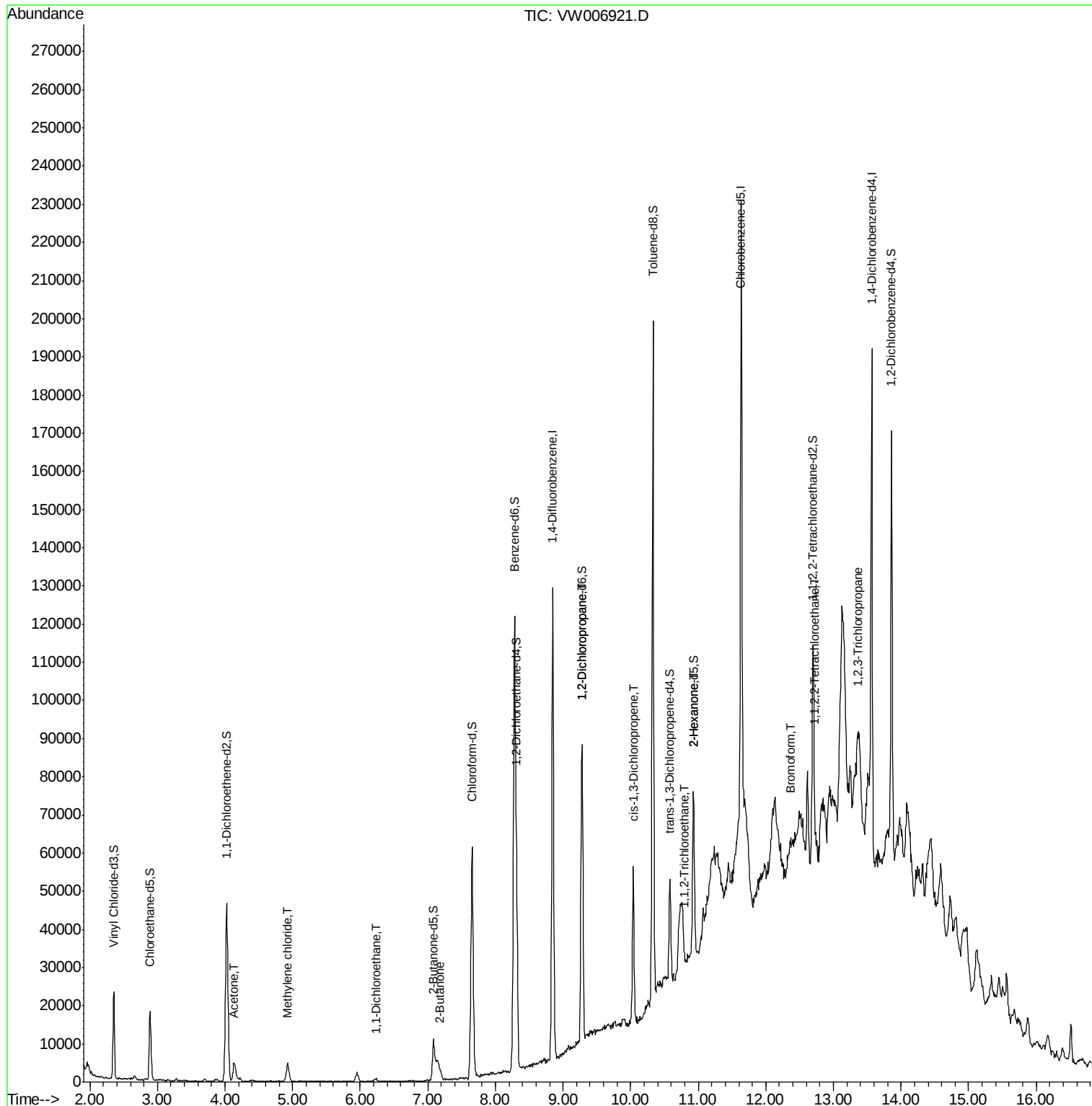
|                               |       |     |      |              | Qvalue |
|-------------------------------|-------|-----|------|--------------|--------|
| 13) Acetone                   | 4.13  | 43  | 8558 | 26.220 ug/L  | 96     |
| 16) Methylene chloride        | 4.93  | 84  | 3551 | 1.961 ug/L   | 89     |
| 19) 1,1-Dichloroethane        | 6.23  | 63  | 825  | 0.374 ug/L   | 92     |
| 21) 2-Butanone                | 7.18  | 43  | 3397 | 6.032 ug/L # | 59     |
| 40) 1,2-Dichloropropane       | 9.27  | 63  | 4301 | 3.510 ug/L # | 93     |
| 42) cis-1,3-Dichloropropene   | 10.04 | 75  | 1125 | 0.608 ug/L # | 49     |
| 46) 1,1,2-Trichloroethane     | 10.80 | 97  | 671  | 0.715 ug/L # | 77     |
| 49) 2-Hexanone                | 10.93 | 43  | 976  | 1.373 ug/L # | 32     |
| 58) 1,1,2,2-Tetrachloroethane | 12.72 | 83  | 796  | 0.669 ug/L # | 83     |
| 59) 1,2,3-Trichloropropane    | 13.37 | 75  | 489  | 0.528 ug/L   | 92     |
| 62) Bromoform                 | 12.36 | 173 | 302  | 0.759 ug/L # | 83     |

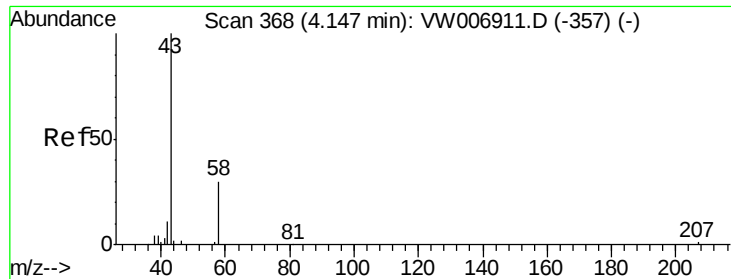
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Nov 16 23:51:03 2018  
Response via : Initial Calibration





#13

Acetone

Concen: 26.220 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.02 min

Lab File: VW006921.D

Acq: 16 Nov 2018 17:23

Instrument :

MSVOA\_W

ClientSampleId :

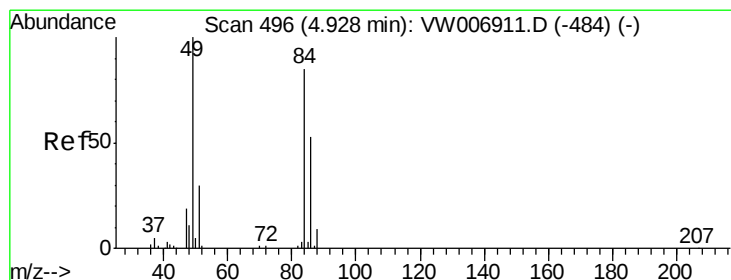
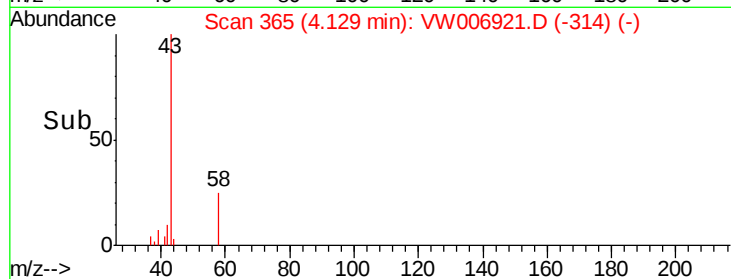
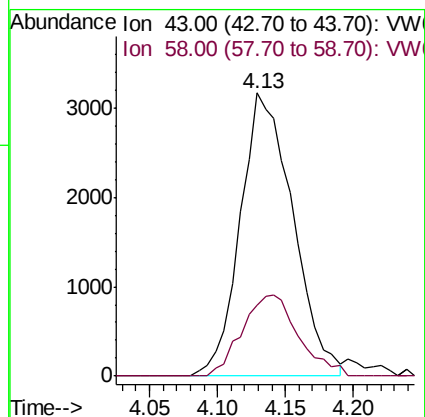
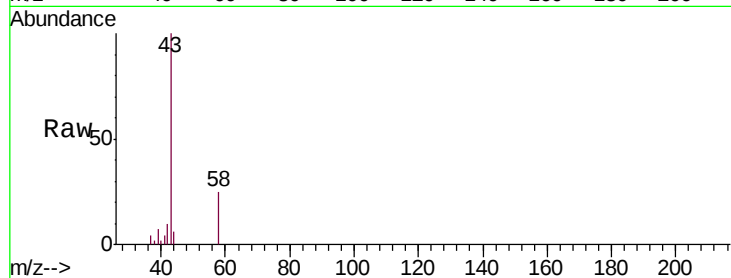
ETO65

Tgt Ion: 43 Resp: 8558

Ion Ratio Lower Upper

43 100

58 30.6 0.0 65.6



#16

Methylene chloride

Concen: 1.961 ug/L

RT: 4.93 min Scan# 497

Delta R.T. 0.01 min

Lab File: VW006921.D

Acq: 16 Nov 2018 17:23

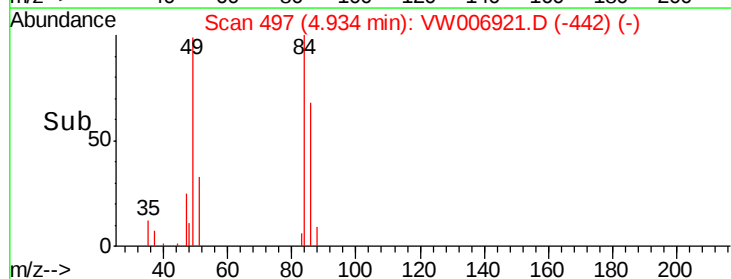
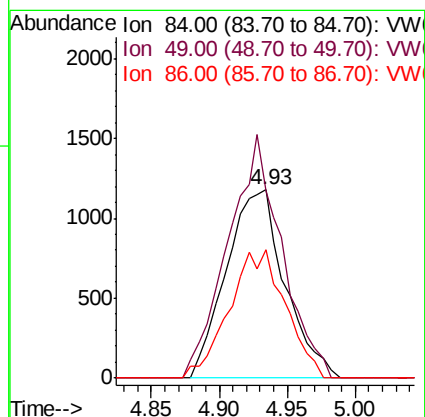
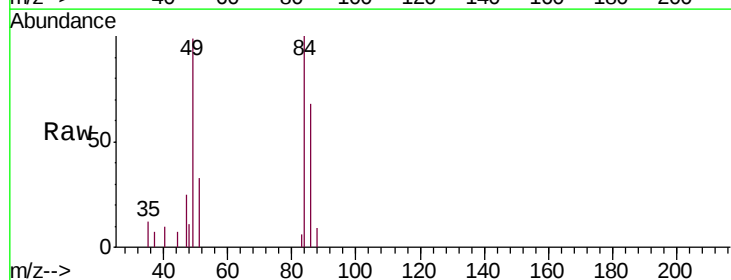
Tgt Ion: 84 Resp: 3551

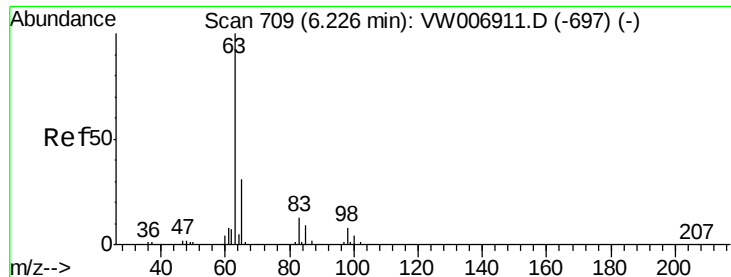
Ion Ratio Lower Upper

84 100

49 99.5 79.3 147.3

86 68.0 43.5 80.9

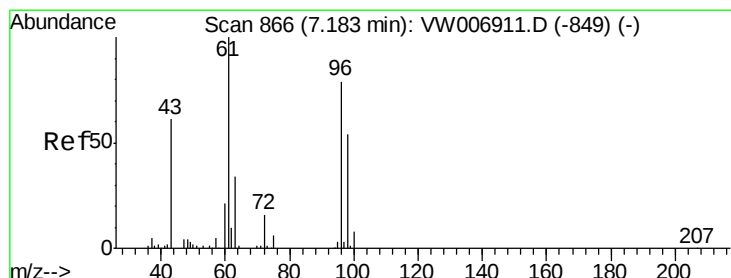
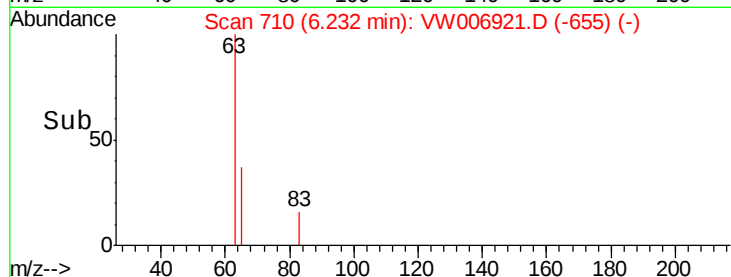
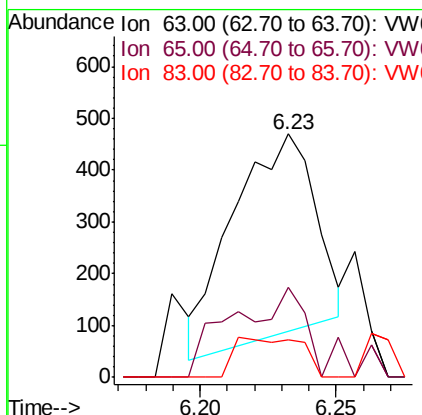
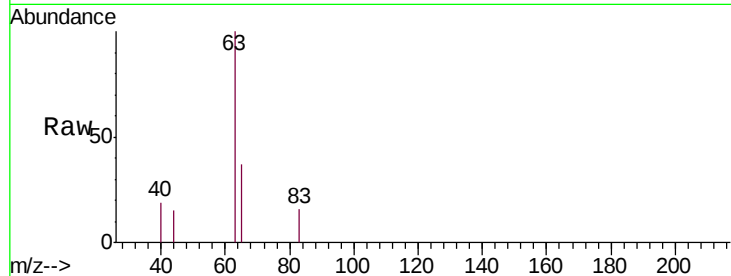




#19  
 1,1-Dichloroethane  
 Concen: 0.374 ug/L  
 RT: 6.23 min Scan# 710  
 Delta R.T. 0.01 min  
 Lab File: VW006921.D  
 Acq: 16 Nov 2018 17:23

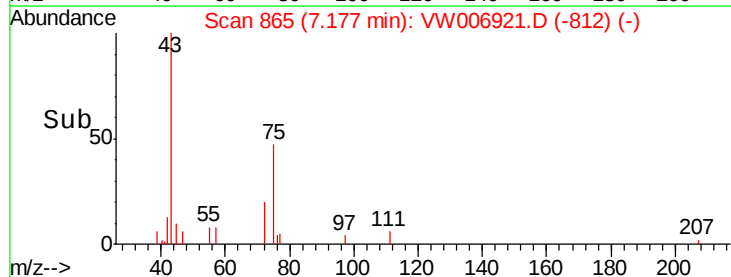
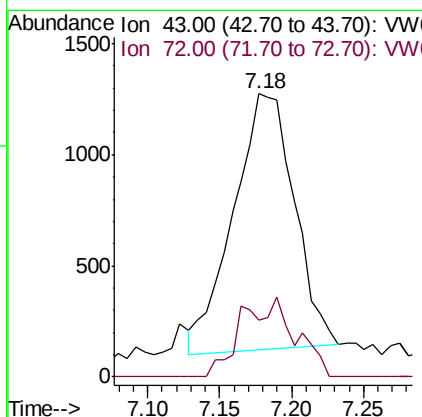
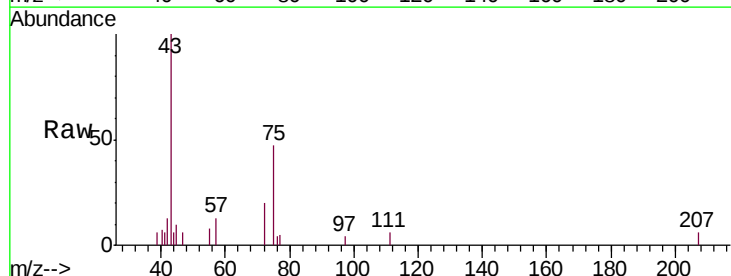
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 ETO65

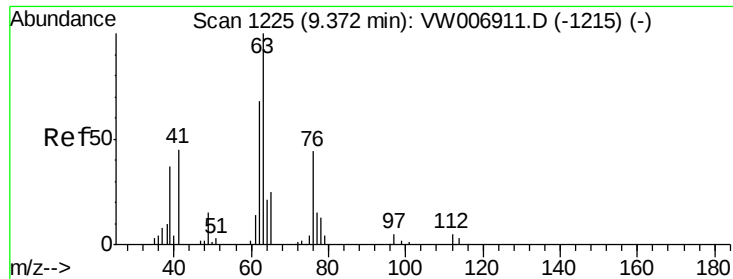
Tgt Ion: 63 Resp: 825  
 Ion Ratio Lower Upper  
 63 100  
 65 36.8 22.0 41.0  
 83 15.5 9.5 17.7



#21  
 2-Butanone  
 Concen: 6.032 ug/L  
 RT: 7.18 min Scan# 865  
 Delta R.T. -0.01 min  
 Lab File: VW006921.D  
 Acq: 16 Nov 2018 17:23

Tgt Ion: 43 Resp: 3397  
 Ion Ratio Lower Upper  
 43 100  
 72 5.9 13.5 40.5#

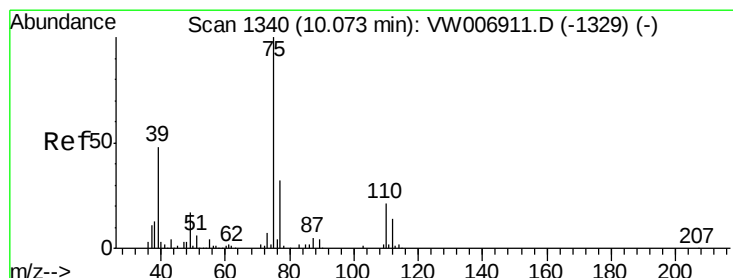
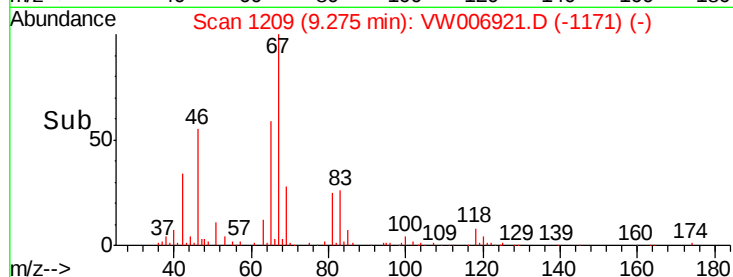
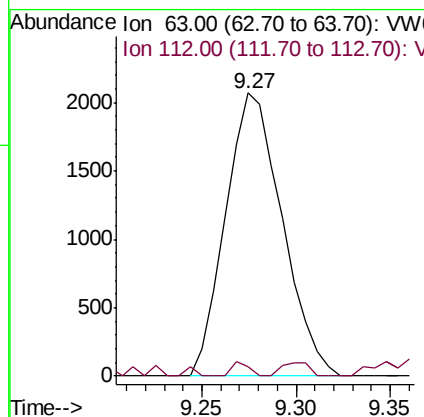
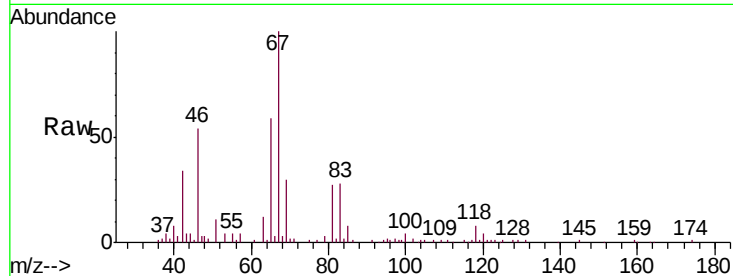




#40  
 1,2-Dichloropropane  
 Concen: 3.510 ug/L  
 RT: 9.27 min Scan# 1209  
 Delta R.T. -0.10 min  
 Lab File: VW006921.D  
 Acq: 16 Nov 2018 17:23

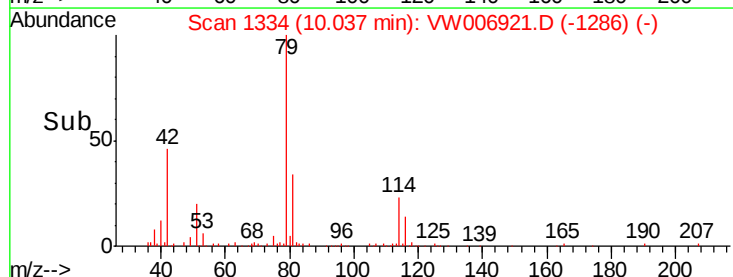
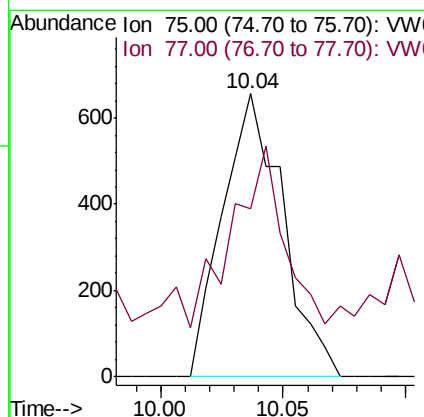
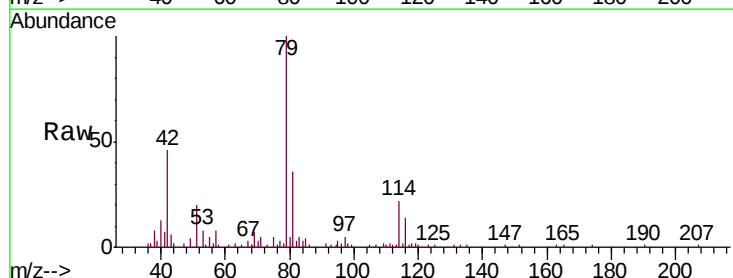
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 ETO65

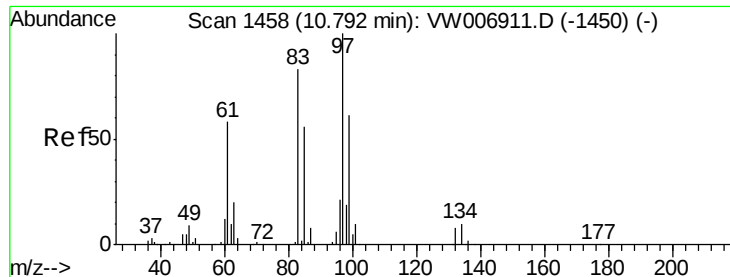
Tgt Ion: 63 Resp: 4301  
 Ion Ratio Lower Upper  
 63 100  
 112 1.5 3.1 4.7#



#42  
 cis-1,3-Dichloropropene  
 Concen: 0.608 ug/L  
 RT: 10.04 min Scan# 1334  
 Delta R.T. -0.04 min  
 Lab File: VW006921.D  
 Acq: 16 Nov 2018 17:23

Tgt Ion: 75 Resp: 1125  
 Ion Ratio Lower Upper  
 75 100  
 77 59.6 21.9 40.7#

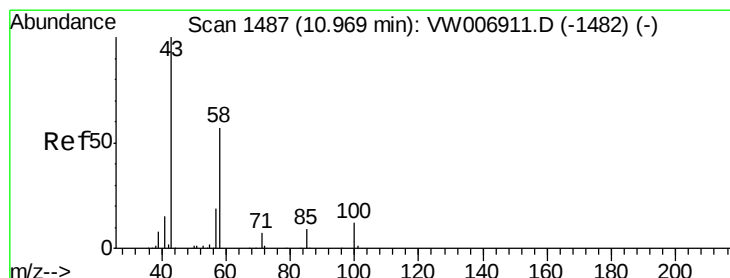
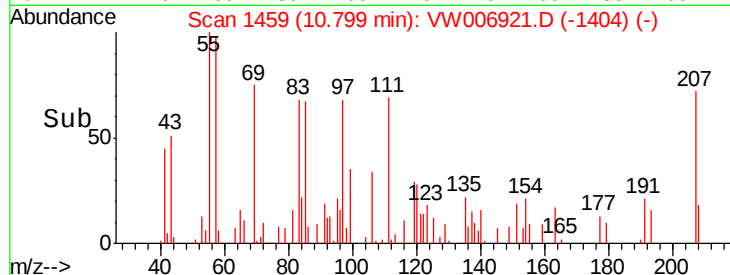
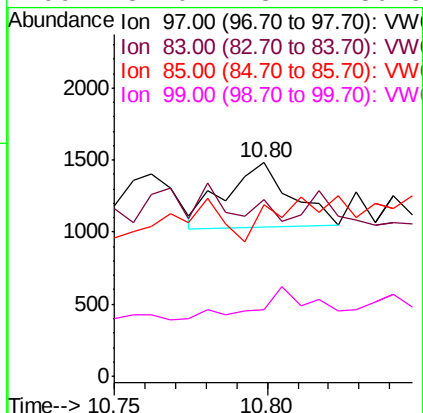
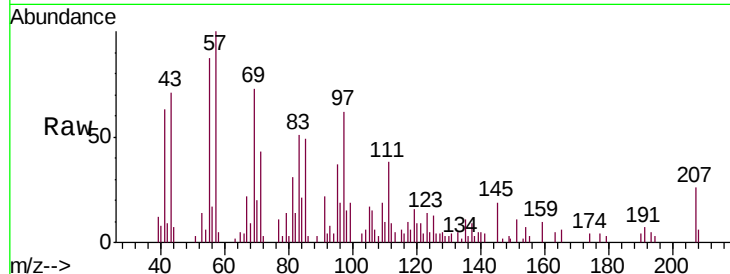




#46  
 1,1,2-Trichloroethane  
 Concen: 0.715 ug/L  
 RT: 10.80 min Scan# 1459  
 Delta R.T. 0.01 min  
 Lab File: VW006921.D  
 Acq: 16 Nov 2018 17:23

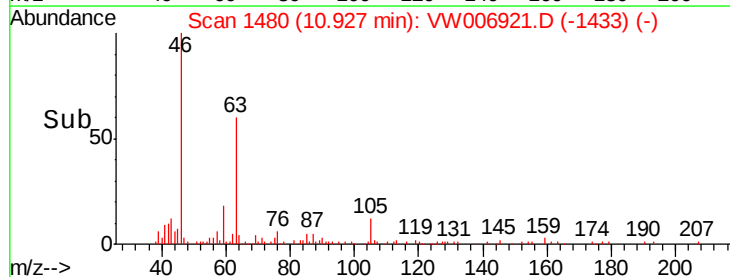
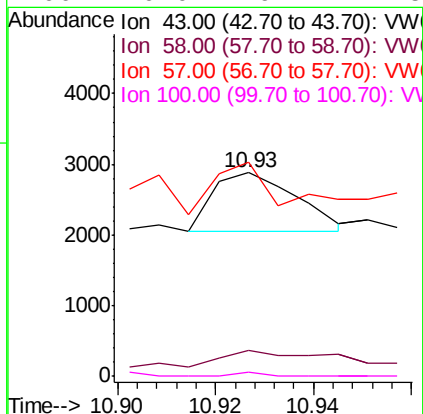
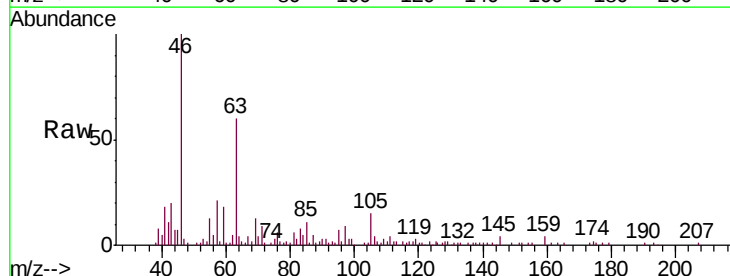
Instrument :  
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 ClientSampleId :  
 ETO65

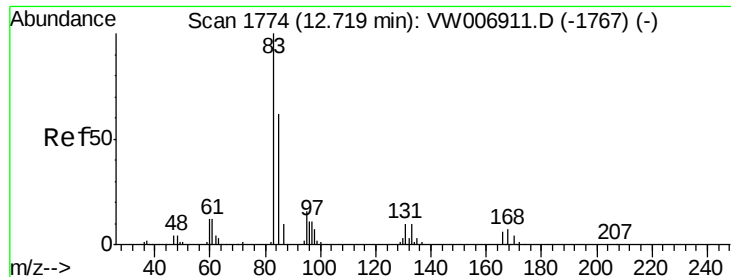
Tgt Ion: 97 Resp: 671  
 Ion Ratio Lower Upper  
 97 100  
 83 83.0 59.6 110.8  
 85 80.1 37.7 70.1#  
 99 31.0 43.4 80.6#



#49  
 2-Hexanone  
 Concen: 1.373 ug/L  
 RT: 10.93 min Scan# 1480  
 Delta R.T. -0.04 min  
 Lab File: VW006921.D  
 Acq: 16 Nov 2018 17:23

Tgt Ion: 43 Resp: 976  
 Ion Ratio Lower Upper  
 43 100  
 58 19.1 44.6 67.0#  
 57 83.8 16.0 24.0#  
 100 0.0 9.7 14.5#





#58

1,1,2,2-Tetrachloroethane

Concen: 0.669 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW006921.D

Acq: 16 Nov 2018 17:23

Instrument :

MSVOA\_W

ClientSampleId :

ETO65

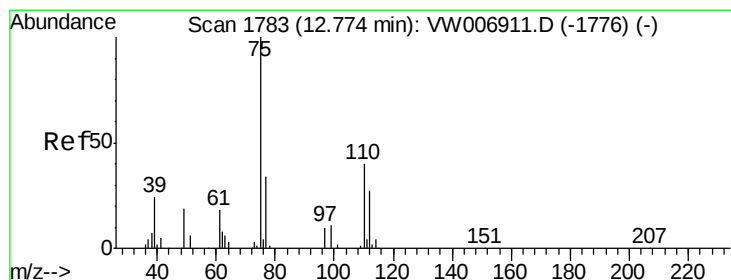
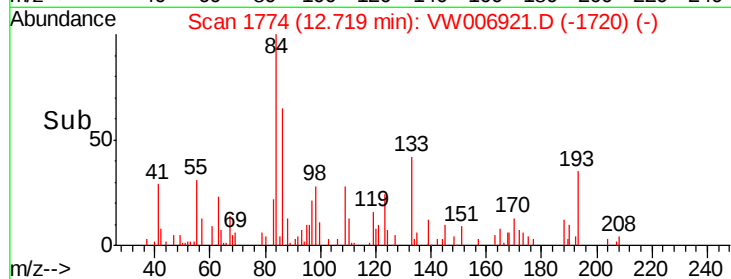
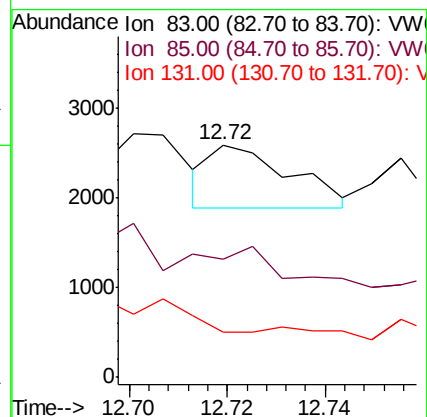
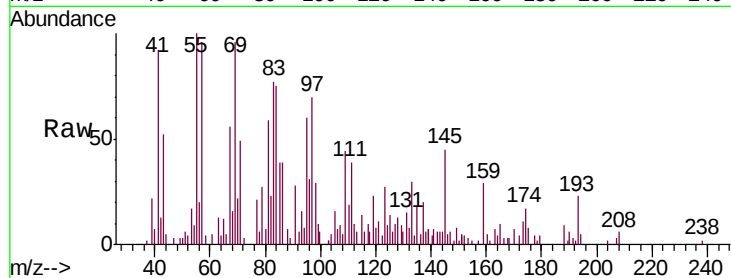
Tgt Ion: 83 Resp: 796

Ion Ratio Lower Upper

83 100

85 51.0 44.4 82.5

131 19.2 8.0 12.0#



#59

1,2,3-Trichloropropane

Concen: 0.528 ug/L

RT: 13.37 min Scan# 1880

Delta R.T. 0.59 min

Lab File: VW006921.D

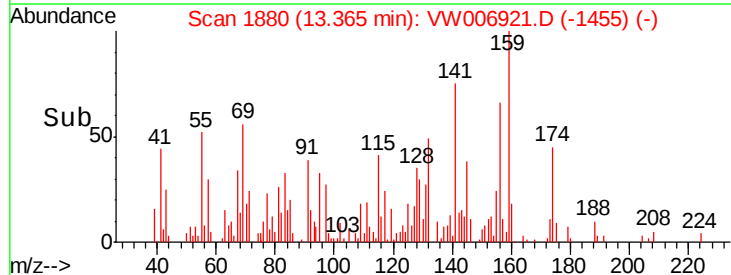
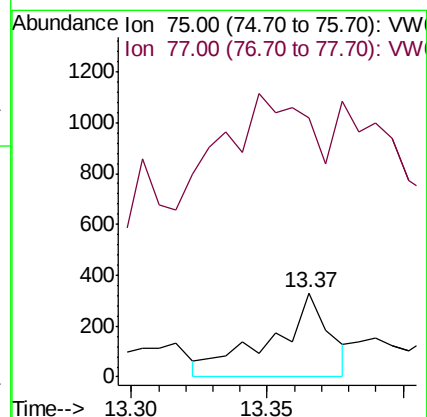
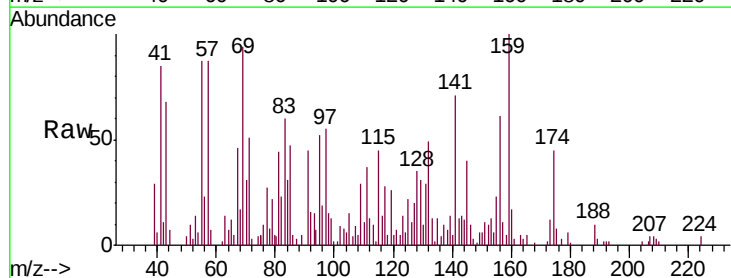
Acq: 16 Nov 2018 17:23

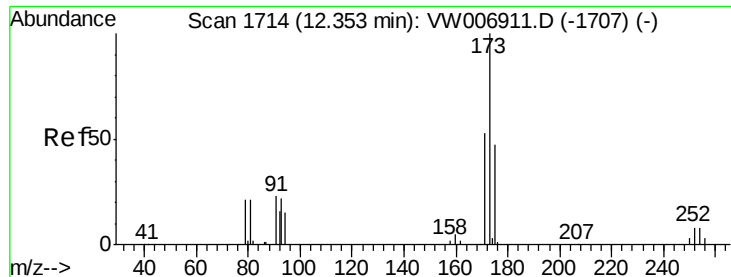
Tgt Ion: 75 Resp: 489

Ion Ratio Lower Upper

75 100

77 28.6 26.5 39.7





#62

Bromoform

Concen: 0.759 ug/L

RT: 12.36 min Scan# 1715

Delta R.T. 0.01 min

Lab File: VW006921.D

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Instrument :

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ClientSampleId :

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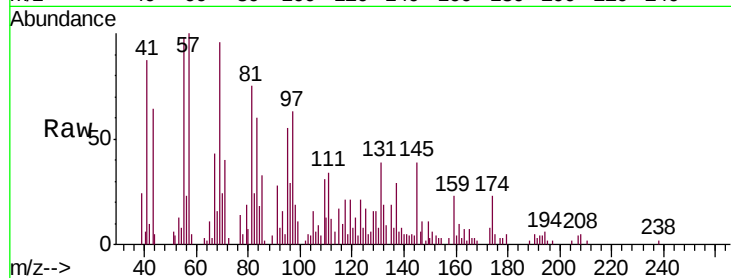
Tgt Ion:173 Resp: 302

Ion Ratio Lower Upper

173 100

175 38.1 39.5 59.3#

254 0.0 6.4 9.6#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

