

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW120420\  
 Data File : VW017553.D  
 Acq On : 04 Dec 2020 14:07  
 Operator : SY/VA  
 Sample : L4941-04  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 20 01:46:56 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM112420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sun Dec 20 01:44:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 387293   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 317471   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 110423   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 97100    | 19.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 76.24%  |
| 7) Chloroethane-d5             | 2.90   | 69    | 87885    | 20.44    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 81.76%  |
| 10) 1,1-Dichloroethene-d2      | 4.15   | 63    | 186      | 0.02     | ug/L | 0.12    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 0.08%#  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 46908    | 43.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 87.32%  |
| 24) Chloroform-d               | 7.65   | 84    | 247416   | 22.49    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 89.96%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 127098   | 23.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 94.16%  |
| 29) Benzene-d6                 | 8.28   | 84    | 462978   | 23.72    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 94.88%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 138485   | 25.64    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 102.56% |
| 37) Toluene-d8                 | 10.33  | 98    | 400477   | 22.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 90.12%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 47130    | 19.52    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 78.08%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 26509    | 39.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 79.30%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 89312    | 22.98    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 91.92%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 94439    | 23.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 92.40%  |

## Target Compounds

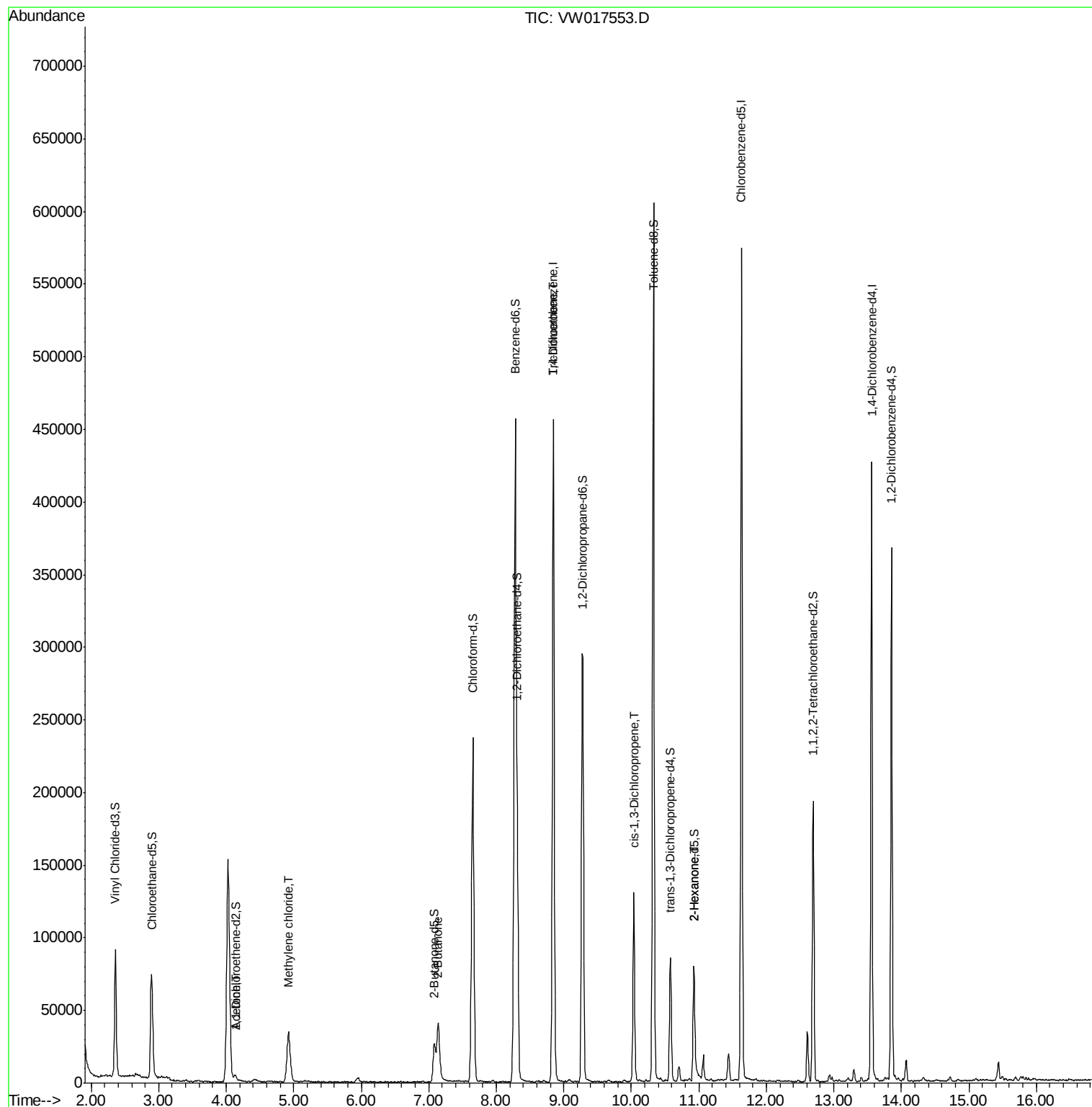
|                             |       |    |       |              | Ovalue |
|-----------------------------|-------|----|-------|--------------|--------|
| 13) Acetone                 | 4.14  | 43 | 3946  | 3.817 ug/L   | 43     |
| 16) Methylene chloride      | 4.93  | 84 | 28926 | 4.975 ug/L   | 98     |
| 21) 2-Butanone              | 7.14  | 43 | 1034  | 0.836 ug/L   | 73     |
| 35) Trichloroethene         | 8.85  | 95 | 11819 | 2.234 ug/L # | 3      |
| 42) cis-1,3-Dichloropropene | 10.04 | 75 | 3674  | 0.529 ug/L # | 55     |
| 49) 2-Hexanone              | 10.93 | 43 | 4579  | 3.142 ug/L # | 55     |

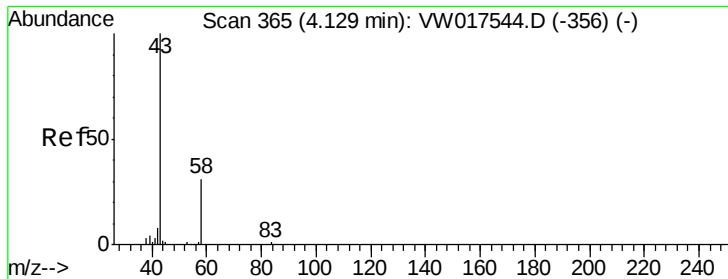
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Operator : SY/VA  
Sample : L4941-04  
Misc : 5.00G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Dec 20 01:46:56 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM112420S.M  
Quant Title : VOC Analysis  
QLast Update : Sun Dec 20 01:44:20 2020  
Response via : Initial Calibration





#13

Acetone

Concen: 3.817 ug/L

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW017553.D

Acq: 04 Dec 2020 14:07

Instrument :

MSVOA\_W

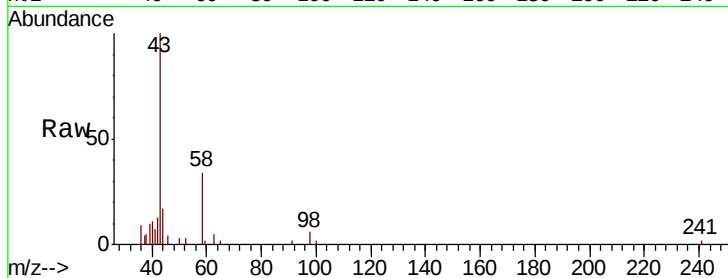
ClientSampleId :

Tot Ion: 43 Resp: 3946

Ion Ratio Lower Upper

43 100

58 1.7 0.0 68.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

3000

2500

2000

1500

1000

500

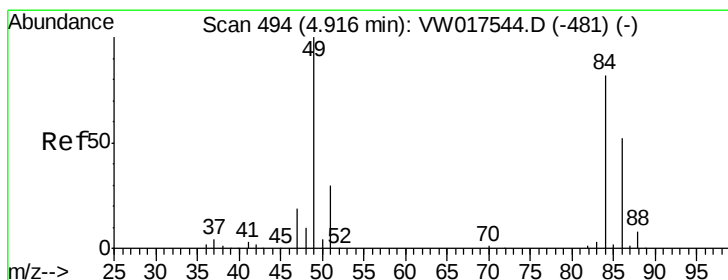
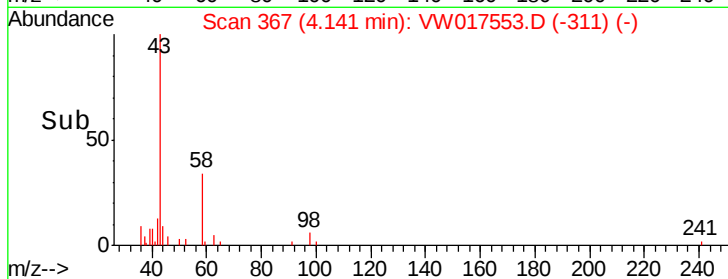
0

4.10

4.14

4.20

Time-->



#16

Methylene chloride

Concen: 4.975 ug/L

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

Lab File: VW017553.D

Acq: 04 Dec 2020 14:07

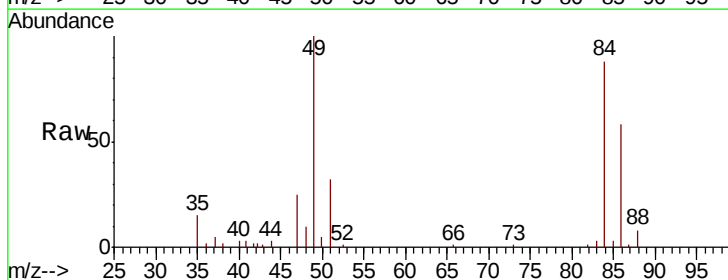
Tgt Ion: 84 Resp: 28926

Ion Ratio Lower Upper

84 100

49 113.6 81.2 150.8

86 65.9 44.5 82.7



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

10000

5000

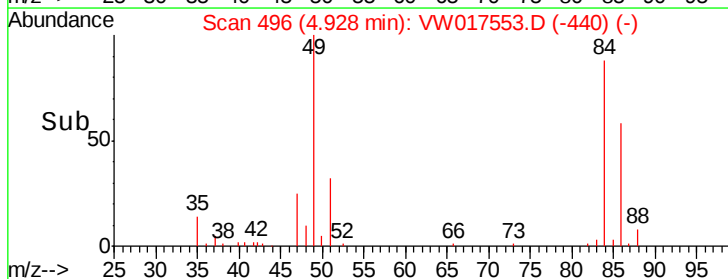
0

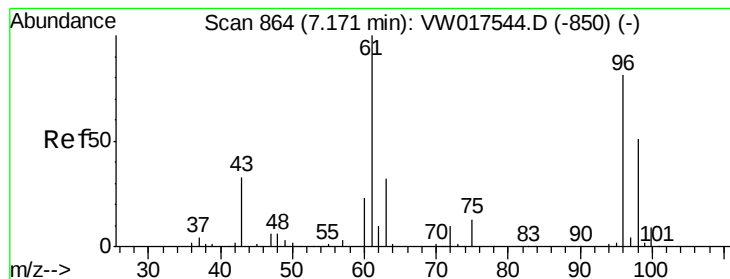
4.80

4.93

5.00

Time-->





#21

2-Butanone

Concen: 0.836 ug/L

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW017553.D

Acq: 04 Dec 2020 14:07

Instrument :

MSVOA\_W

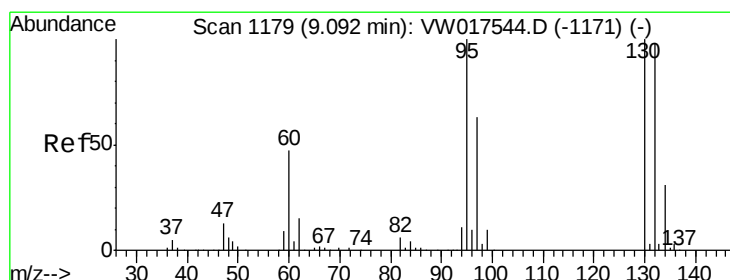
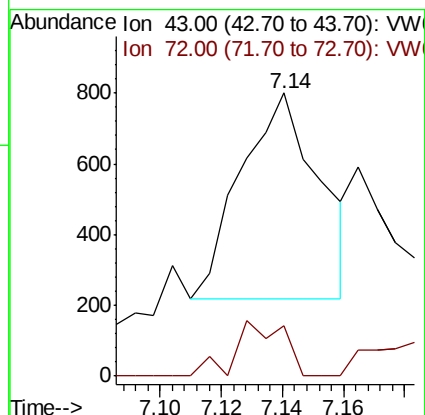
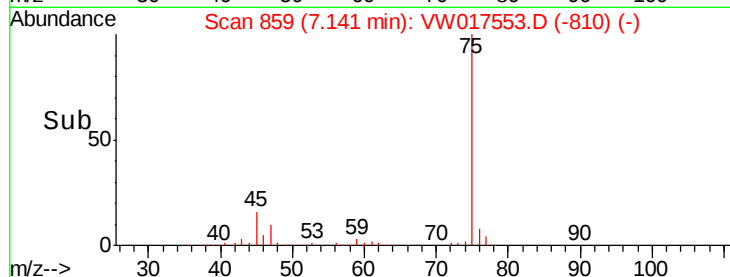
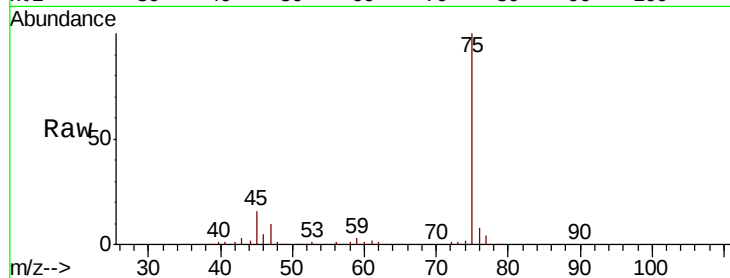
ClientSampled :

Tot Ion: 43 Resp: 1034

Ion Ratio Lower Upper

43 100

72 14.4 14.4 43.2



#35

Trichloroethene

Concen: 2.234 ug/L

RT: 8.85 min Scan# 1139

Delta R.T. -0.24 min

Lab File: VW017553.D

Acq: 04 Dec 2020 14:07

Tgt Ion: 95 Resp: 11819

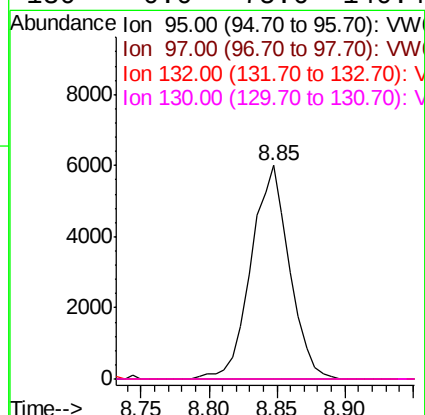
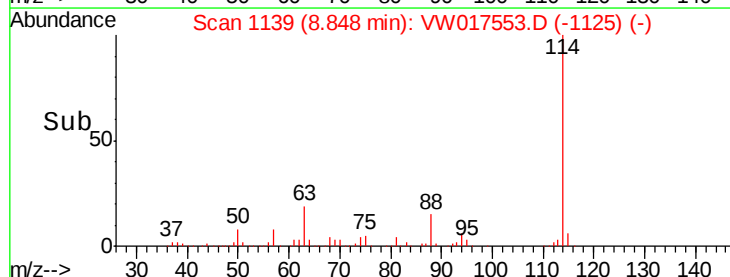
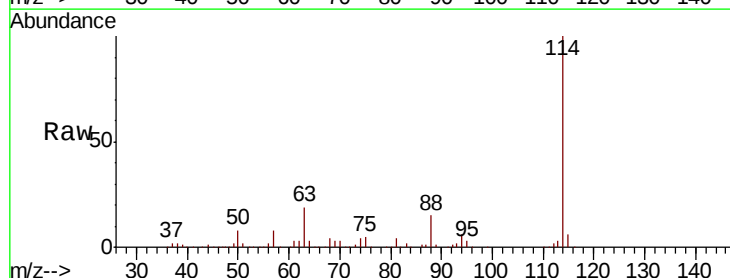
Ion Ratio Lower Upper

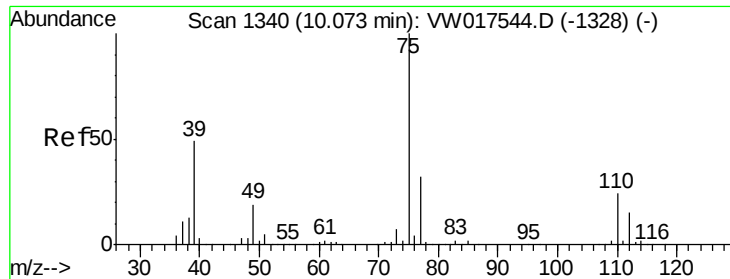
95 100

97 0.0 45.0 83.6#

132 0.0 71.0 131.8#

130 0.0 75.6 140.4#

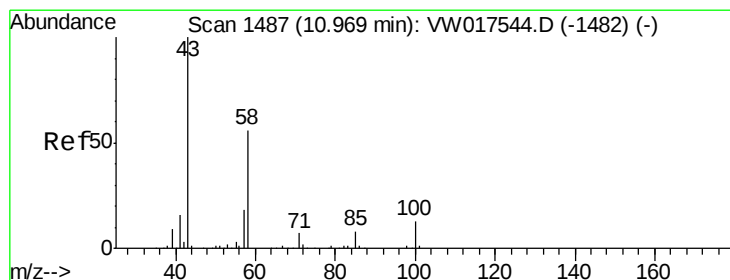
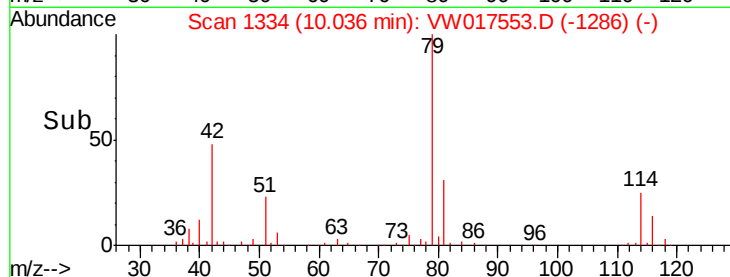
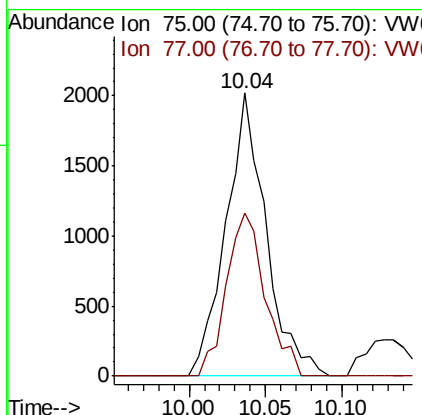
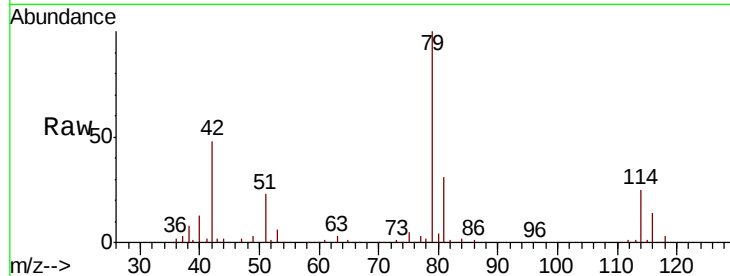




#42  
 cis-1,3-Dichloropropene  
 Concen: 0.529 ug/L  
 RT: 10.04 min Scan# 1334  
 Delta R.T. -0.04 min  
 Lab File: VW017553.D  
 Acq: 04 Dec 2020 14:07

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 75 Resp: 3674  
 Ion Ratio Lower Upper  
 75 100  
 77 57.6 22.7 42.3#



#49  
 2-Hexanone  
 Concen: 3.142 ug/L  
 RT: 10.93 min Scan# 1480  
 Delta R.T. -0.04 min  
 Lab File: VW017553.D  
 Acq: 04 Dec 2020 14:07

Tgt Ion: 43 Resp: 4579  
 Ion Ratio Lower Upper  
 43 100  
 58 20.9 51.3 76.9#  
 57 26.7 15.0 22.6#  
 100 0.4 12.2 18.2#

