

Data File : VU032998.D  
Acq On : 24 Jun 2019 11:41  
Operator : JC/SP  
Sample : K3478-11  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
ETF25

Quant Time: Jun 25 05:26:47 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jun 25 05:22:49 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 204018   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 199317   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 95690    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 39143    | 28.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 56.14%# |
| 7) Chloroethane-d5             | 1.68    | 69    | 39064    | 35.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 70.26%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 69652    | 24.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 49.60%# |
| 21) 2-Butanone-d5              | 4.17    | 46    | 126974   | 109.41   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 109.41% |
| 24) Chloroform-d               | 4.64    | 84    | 113874   | 42.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 84.02%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 82312    | 45.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.18%  |
| 32) Benzene-d6                 | 5.33    | 84    | 207843   | 40.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 80.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 72015    | 43.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 87.02%  |
| 41) Toluene-d8                 | 7.56    | 98    | 183916   | 37.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 75.60%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 34339    | 39.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 79.76%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 76075    | 98.43    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 98.43%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.42   | 84    | 119103   | 46.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.10%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 82222    | 44.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.80%  |

#### Target Compounds

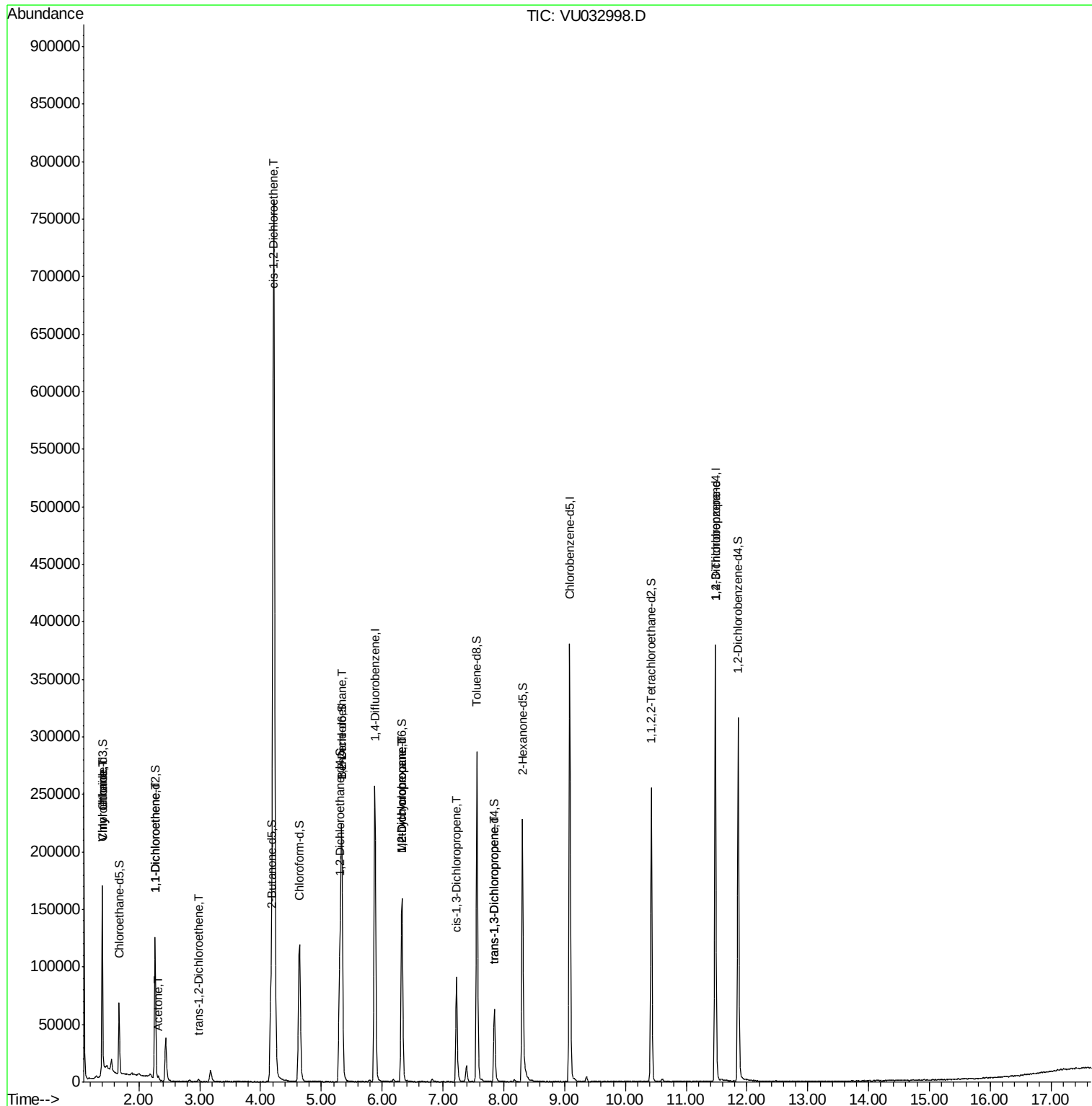
|                               |       |    |        |         |        | Qvalue |
|-------------------------------|-------|----|--------|---------|--------|--------|
| 5) Vinyl chloride             | 1.40  | 62 | 59571  | 32.154  | ug/L   | 87     |
| 8) Chloroethane               | 1.40  | 64 | 33875  | 31.764  | ug/L # | 49     |
| 12) 1,1-Dichloroethene        | 2.27  | 96 | 1715   | 1.335   | ug/L # | 1      |
| 13) Acetone                   | 2.32  | 43 | 3453   | 2.154   | ug/L   | 93     |
| 17) trans-1,2-Dichloroethene  | 2.98  | 96 | 843    | 0.605   | ug/L   | 96     |
| 20) cis-1,2-Dichloroethene    | 4.22  | 96 | 406862 | 268.067 | ug/L   | 95     |
| 27) 1,2-Dichloroethane        | 5.33  | 62 | 1303   | 0.579   | ug/L # | 77     |
| 35) Methylcyclohexane         | 6.32  | 83 | 17117  | 7.218   | ug/L # | 18     |
| 37) 1,2-Dichloropropane       | 6.32  | 63 | 8562   | 5.436   | ug/L # | 88     |
| 39) cis-1,3-Dichloropropene   | 7.22  | 75 | 2478   | 1.010   | ug/L # | 56     |
| 44) trans-1,3-Dichloropropene | 7.85  | 75 | 1739   | 0.755   | ug/L   | 86     |
| 59) 1,2,3-Trichloropropane    | 11.48 | 75 | 12521  | 5.957   | ug/L   | 91     |

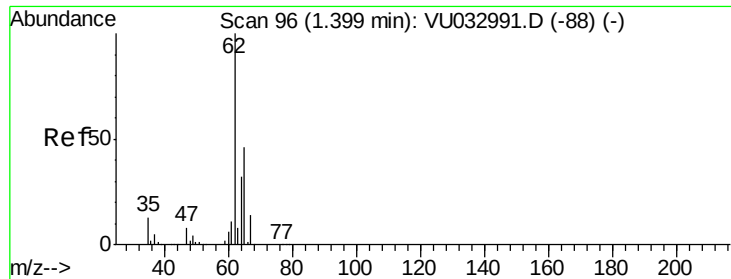
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 32.154 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032998.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA\_U

ClientSampleId :

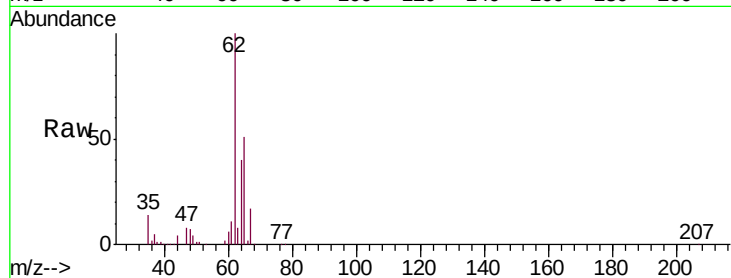
ETF25

Tgt Ion: 62 Resp: 59571

Ion Ratio Lower Upper

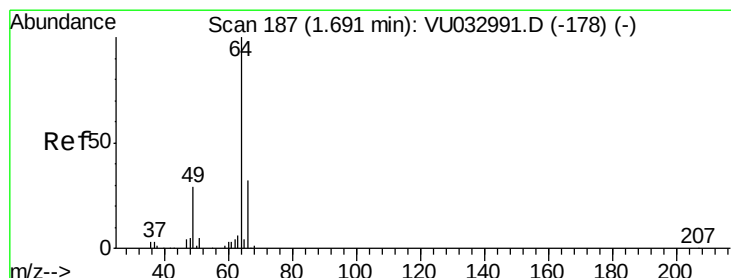
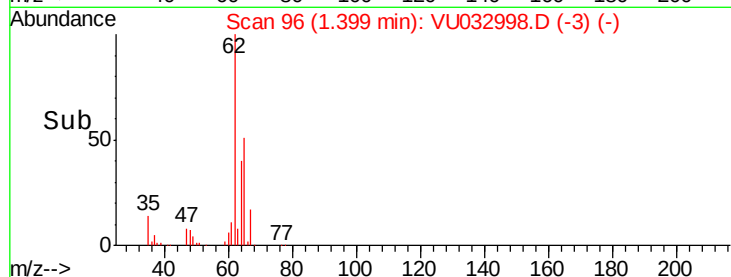
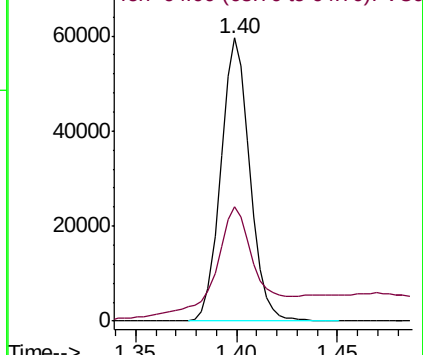
62 100

64 40.2 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU032991.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU032991.D (-88) (-)



#8

Chloroethane

Concen: 31.764 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.29 min

Lab File: VU032998.D

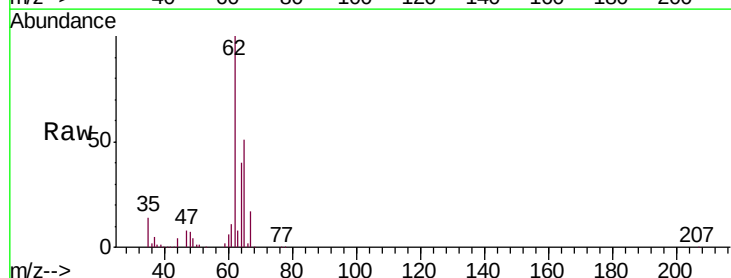
Acq: 24 Jun 2019 11:41

Tgt Ion: 64 Resp: 33875

Ion Ratio Lower Upper

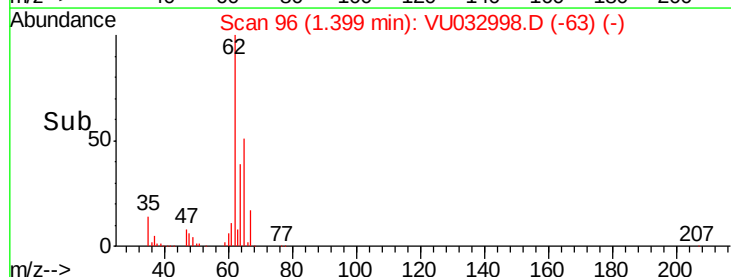
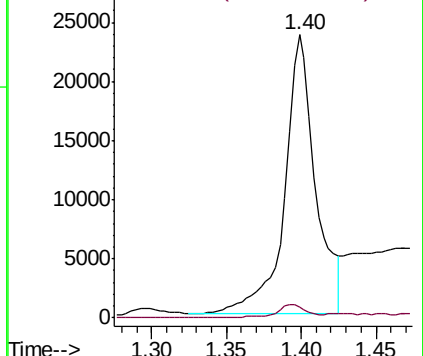
64 100

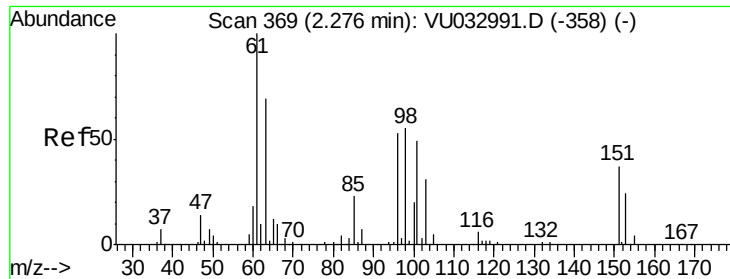
66 3.9 22.5 41.7#



Abundance Ion 64.00 (63.70 to 64.70): VU032991.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU032991.D (-178) (-)

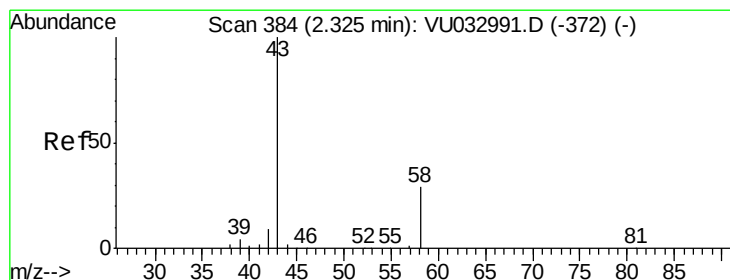
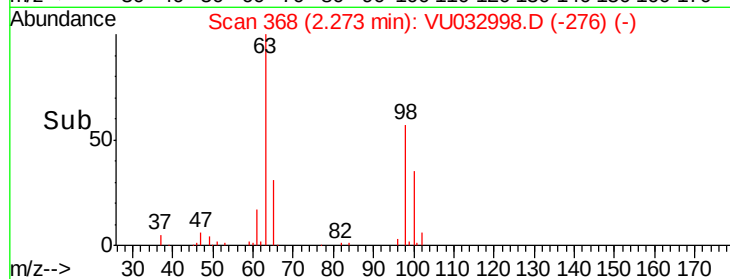
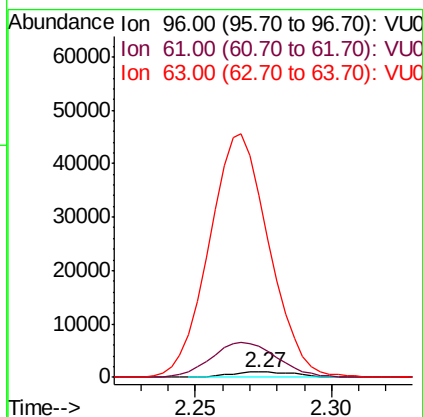
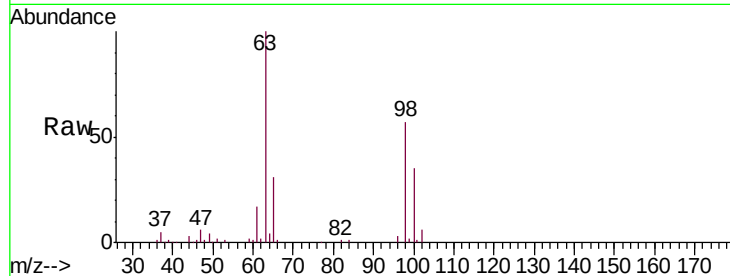




#12  
 1,1-Dichloroethene  
 Concen: 1.335 ug/L  
 RT: 2.27 min Scan# 368  
 Delta R.T. -0.00 min  
 Lab File: VU032998.D  
 Acq: 24 Jun 2019 11:41

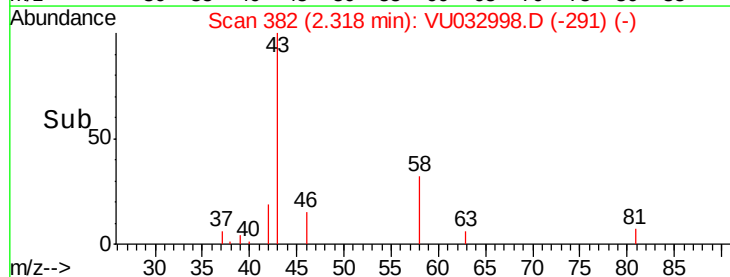
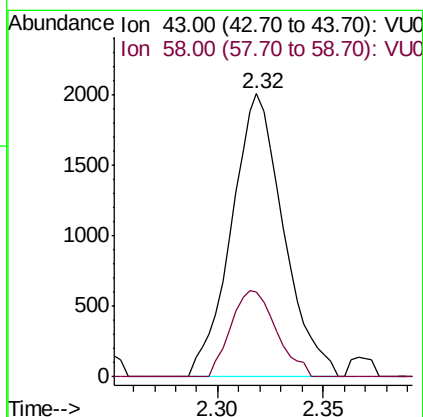
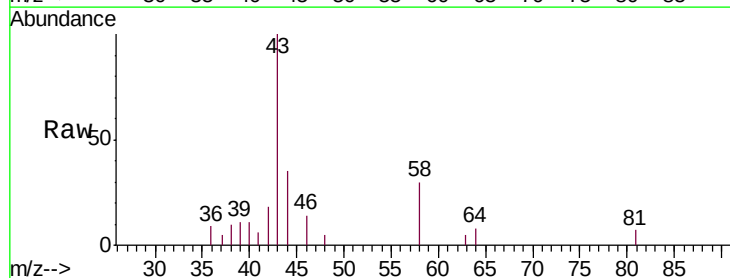
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ETF25

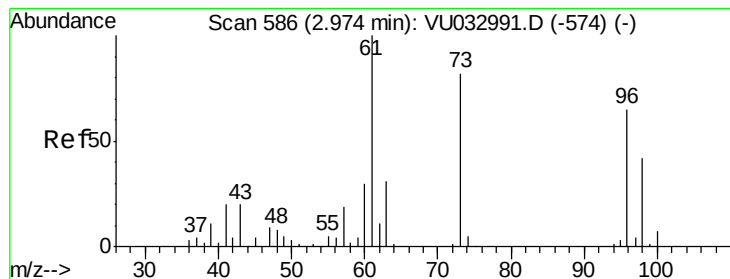
Tgt Ion: 96 Resp: 1715  
 Ion Ratio Lower Upper  
 96 100  
 61 567.7 131.0 243.4#  
 63 3394.4 101.0 187.6#



#13  
 Acetone  
 Concen: 2.154 ug/L  
 RT: 2.32 min Scan# 382  
 Delta R.T. -0.01 min  
 Lab File: VU032998.D  
 Acq: 24 Jun 2019 11:41

Tgt Ion: 43 Resp: 3453  
 Ion Ratio Lower Upper  
 43 100  
 58 26.5 0.0 60.6





#17

trans-1,2-Dichloroethene

Concen: 0.605 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.01 min

Lab File: VU032998.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA\_U

ClientSampleId :

ETF25

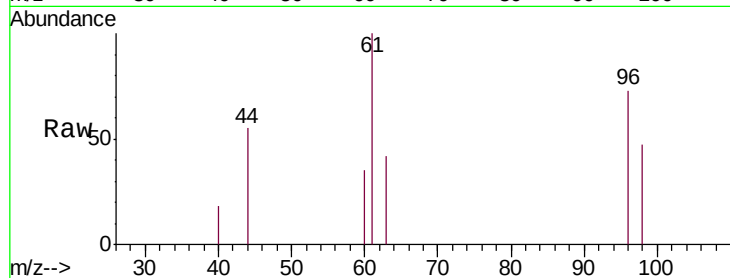
Tgt Ion: 96 Resp: 843

Ion Ratio Lower Upper

96 100

61 137.6 100.9 187.5

98 64.8 44.0 81.8

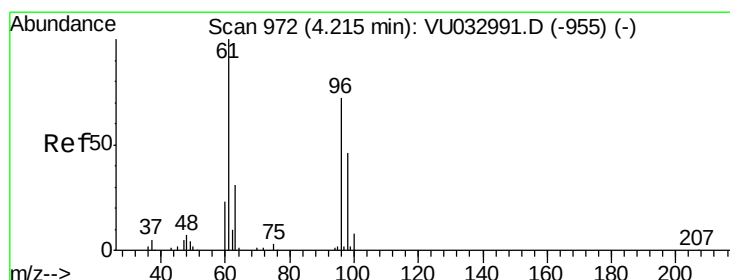
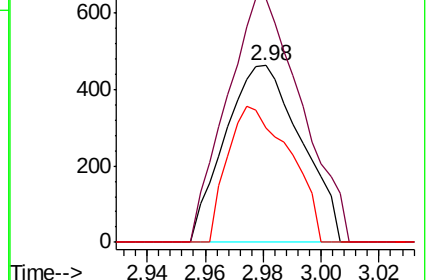
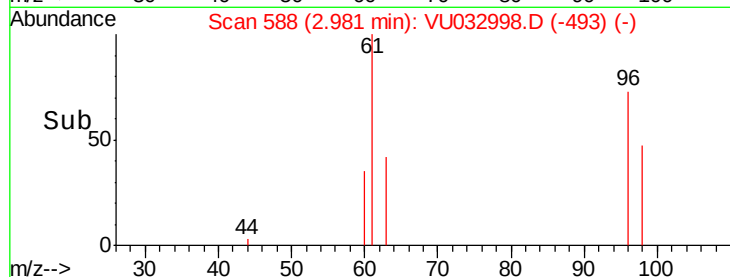


Abundance Ion 96.00 (95.70 to 96.70): VU032998.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU032998.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU032998.D (-574) (-)

Time-->



#20

cis-1,2-Dichloroethene

Concen: 268.067 ug/L

RT: 4.22 min Scan# 972

Delta R.T. 0.00 min

Lab File: VU032998.D

Acq: 24 Jun 2019 11:41

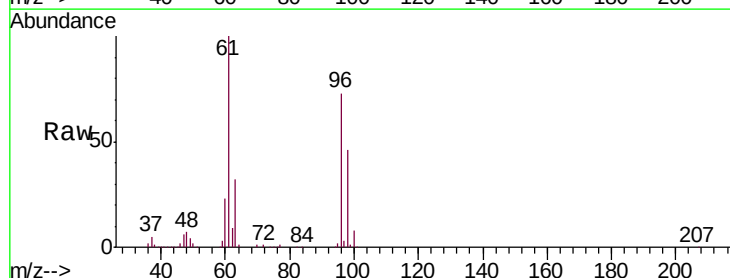
Tgt Ion: 96 Resp: 406862

Ion Ratio Lower Upper

96 100

61 137.8 92.4 171.6

68 0.0 0.0 0.0

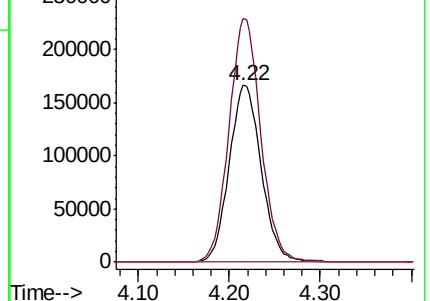
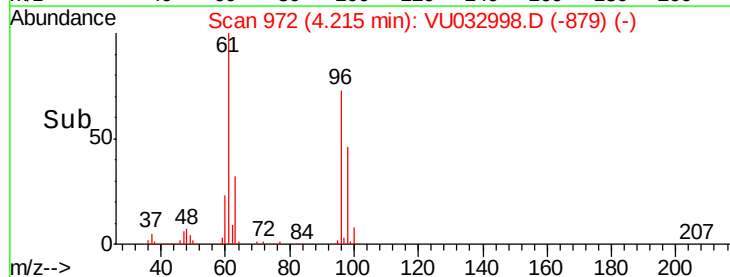


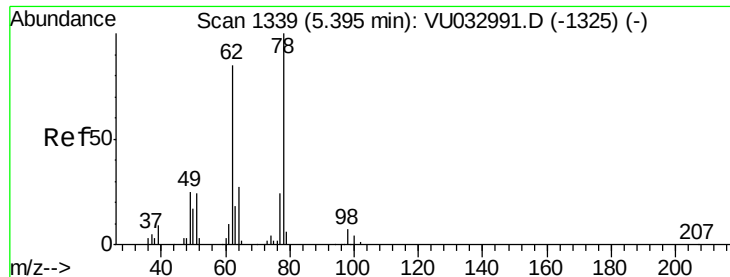
Abundance Ion 96.00 (95.70 to 96.70): VU032998.D (-955) (-)

Ion 61.00 (60.70 to 61.70): VU032998.D (-955) (-)

Ion 68.00 (67.70 to 68.70): VU032998.D (-955) (-)

Time-->

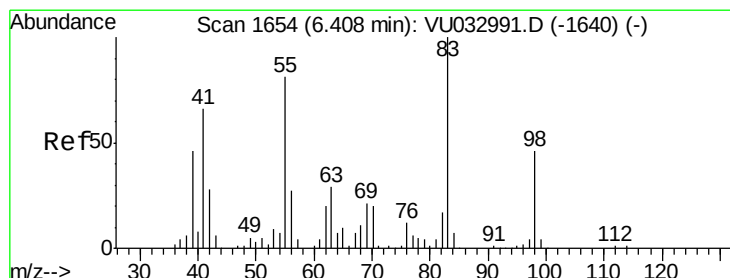
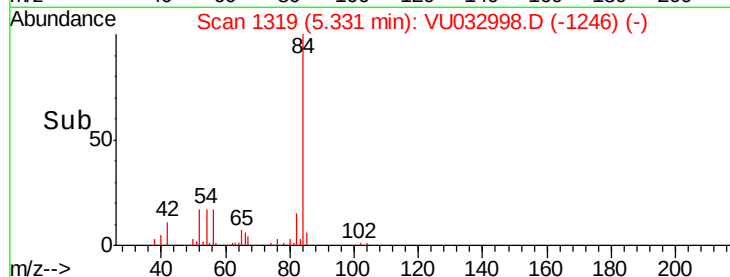
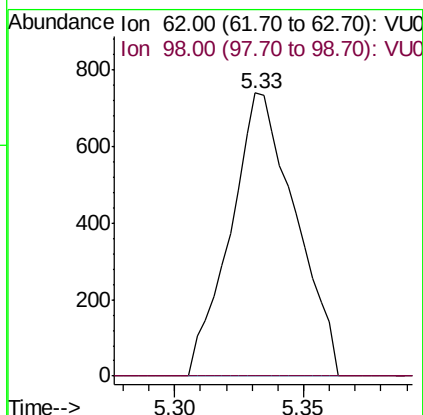
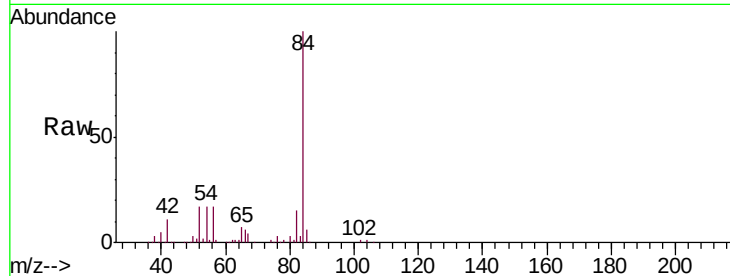




#27  
 1,2-Dichloroethane  
 Concen: 0.579 ug/L  
 RT: 5.33 min Scan# 1319  
 Delta R.T. -0.06 min  
 Lab File: VU032998.D  
 Acq: 24 Jun 2019 11:41

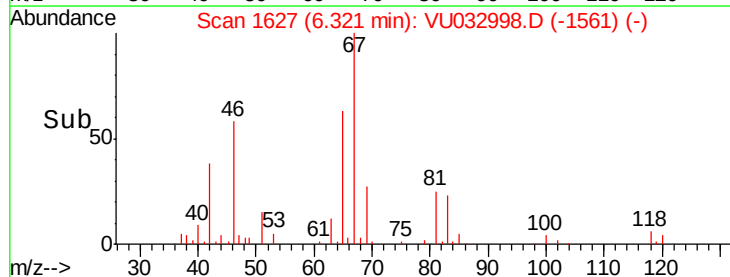
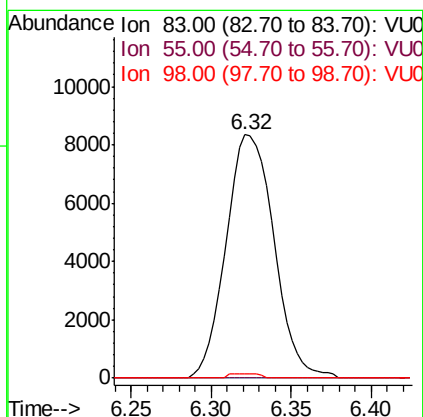
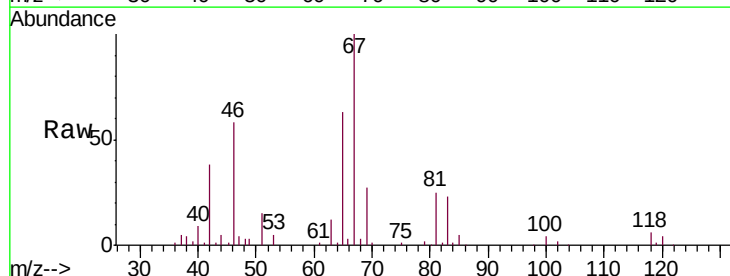
Instrument :  
 MSVOA\_U  
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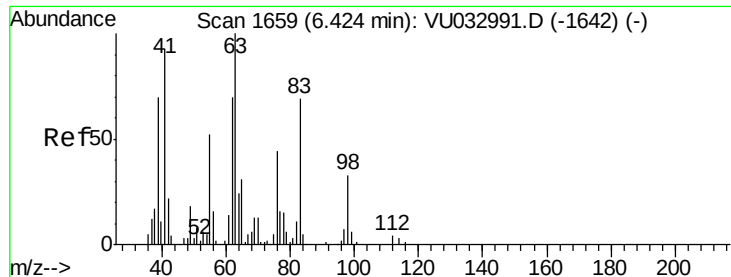
Tgt Ion: 62 Resp: 1303  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 6.6 10.0#



#35  
 Methylcyclohexane  
 Concen: 7.218 ug/L  
 RT: 6.32 min Scan# 1627  
 Delta R.T. -0.09 min  
 Lab File: VU032998.D  
 Acq: 24 Jun 2019 11:41

Tgt Ion: 83 Resp: 17117  
 Ion Ratio Lower Upper  
 83 100  
 55 0.0 62.6 94.0#  
 98 1.1 37.4 56.0#

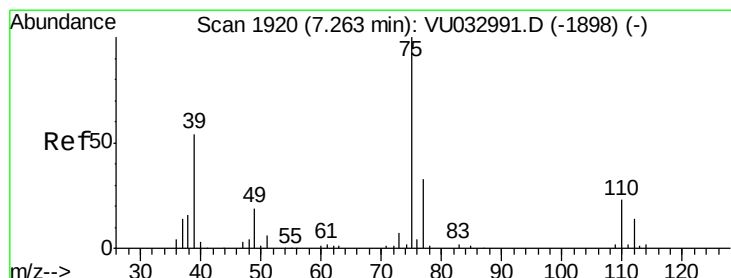
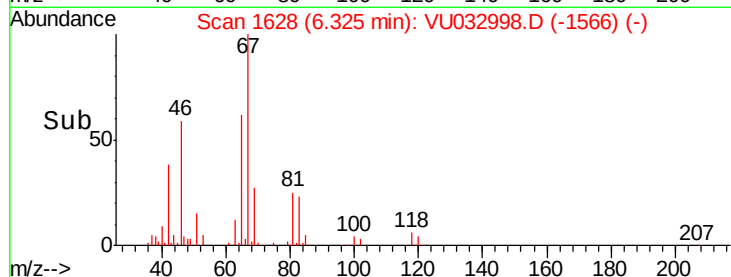
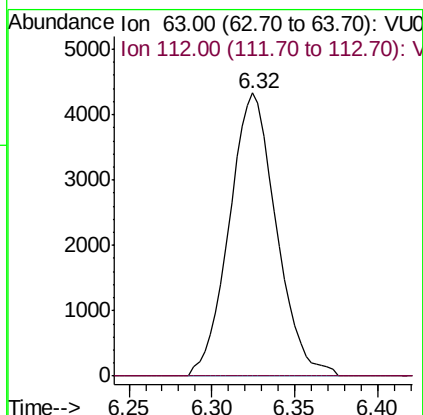
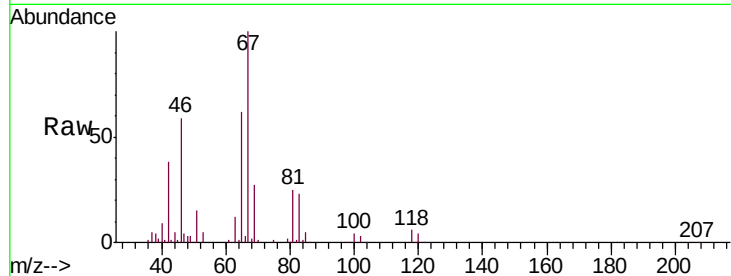




#37  
 1,2-Dichloropropane  
 Concen: 5.436 ug/L  
 RT: 6.32 min Scan# 1628  
 Delta R.T. -0.10 min  
 Lab File: VU032998.D  
 Acq: 24 Jun 2019 11:41

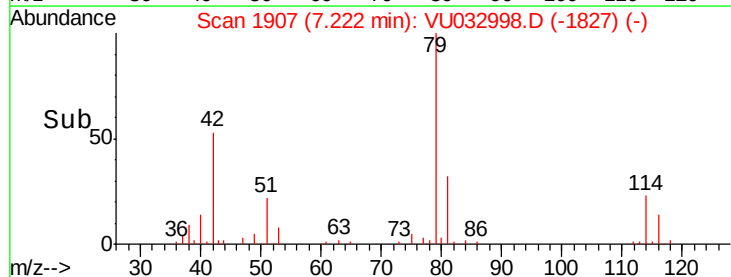
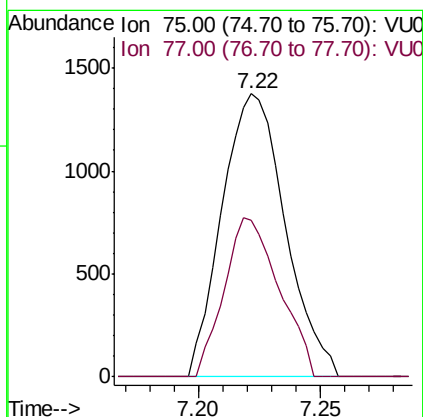
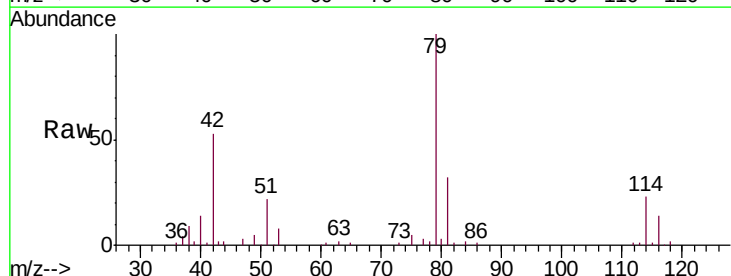
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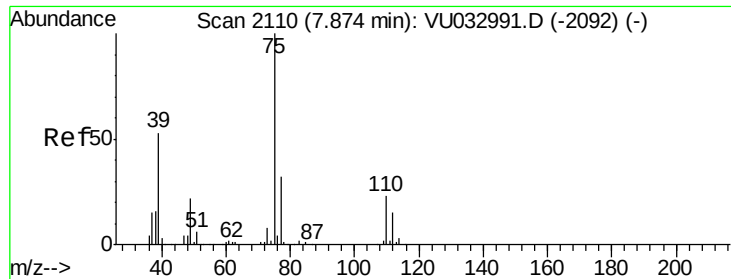
Tgt Ion: 63 Resp: 8562  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.0 4.6#



#39  
 cis-1,3-Dichloropropene  
 Concen: 1.010 ug/L  
 RT: 7.22 min Scan# 1907  
 Delta R.T. -0.04 min  
 Lab File: VU032998.D  
 Acq: 24 Jun 2019 11:41

Tgt Ion: 75 Resp: 2478  
 Ion Ratio Lower Upper  
 75 100  
 77 55.5 21.9 40.7#





#44

trans-1,3-Dichloropropene

Concen: 0.755 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU032998.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA\_U

ClientSampleId :

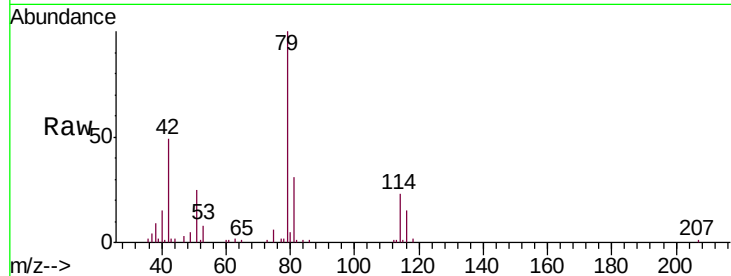
ETF25

Tgt Ion: 75 Resp: 1739

Ion Ratio Lower Upper

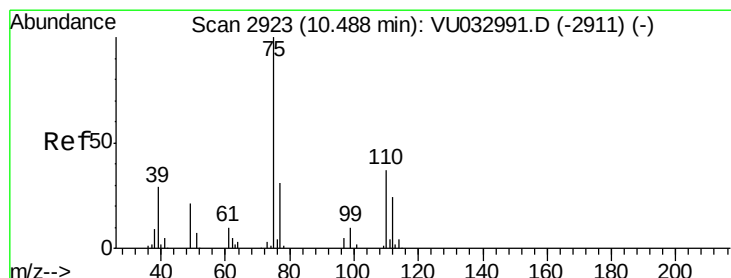
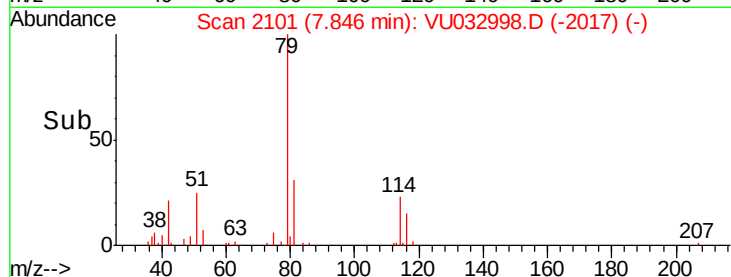
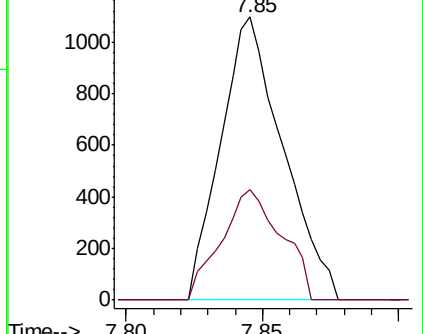
75 100

77 38.9 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#59

1,2,3-Trichloropropane

Concen: 5.957 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU032998.D

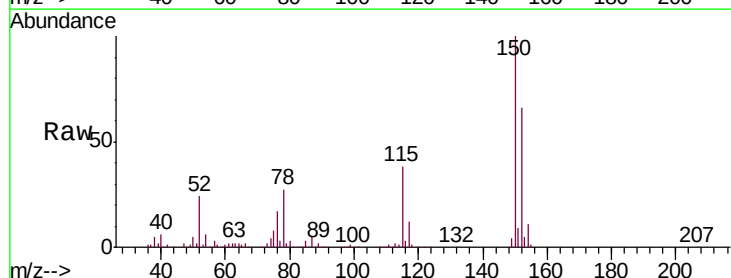
Acq: 24 Jun 2019 11:41

Tgt Ion: 75 Resp: 12521

Ion Ratio Lower Upper

75 100

77 37.0 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

