

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111920\  
 Data File : VU041336.D  
 Acq On : 19 Nov 2020 00:58  
 Operator : SY/MD  
 Sample : L4790-20MSD  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4419

Quant Time: Nov 19 02:25:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Nov 19 00:50:13 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 64688    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 65271    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 27991    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 20533    | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 86.20%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 17815    | 4.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 47989    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 97.60%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 88620    | 45.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 90.34%  |
| 24) Chloroform-d               | 5.08   | 84    | 49372    | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 30450    | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.60%  |
| 32) Benzene-d6                 | 5.74   | 84    | 84442    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 29464    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.20%  |
| 41) Toluene-d8                 | 7.91   | 98    | 68487    | 4.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 82.60%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 10726    | 4.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 82.20%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 64347    | 46.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 92.32%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 26277    | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 89.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 27513    | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.80% |

## Target Compounds

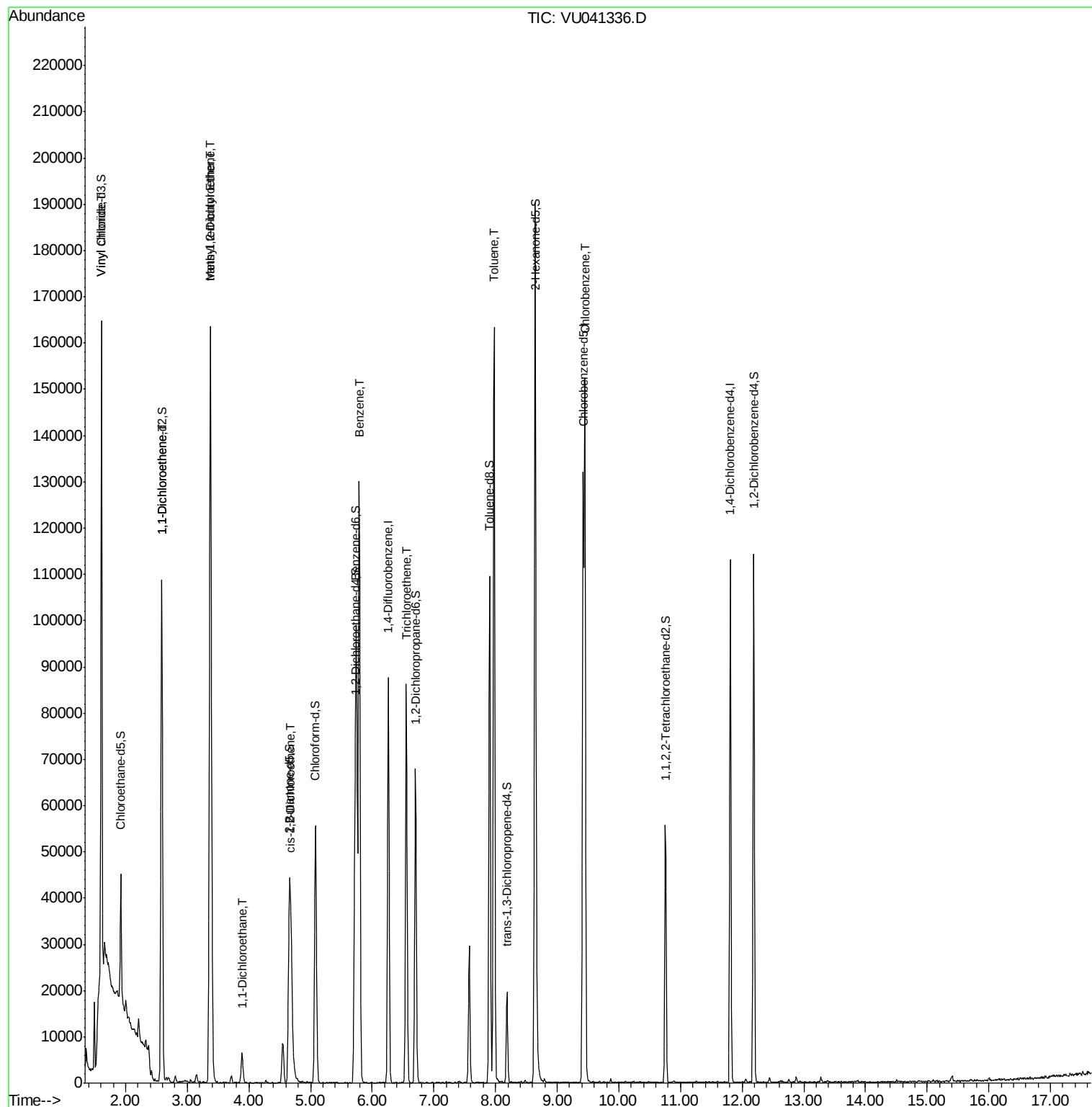
| Target Compounds             | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|------------------------------|------|------|----------|--------|--------|--------|
| 5) Vinyl chloride            | 1.61 | 62   | 72643    | 12.936 | ug/L # | 68     |
| 12) 1,1-Dichloroethene       | 2.59 | 96   | 24720    | 5.870  | ug/L   | 93     |
| 17) Methyl tert-butyl Ether  | 3.38 | 73   | 123065   | 10.675 | ug/L   | 99     |
| 18) trans-1,2-Dichloroethene | 3.37 | 96   | 21908    | 5.342  | ug/L   | 97     |
| 19) 1,1-Dichloroethane       | 3.89 | 63   | 7178     | 0.783  | ug/L   | 86     |
| 22) cis-1,2-Dichloroethene   | 4.68 | 96   | 5866     | 1.266  | ug/L   | 96     |
| 33) Benzene                  | 5.79 | 78   | 116107   | 6.564  | ug/L   | 100    |
| 34) Trichloroethene          | 6.55 | 95   | 28432    | 5.947  | ug/L   | 99     |
| 42) Toluene                  | 7.98 | 91   | 113649   | 6.012  | ug/L   | 100    |
| 51) Chlorobenzene            | 9.45 | 112  | 73721    | 5.888  | ug/L   | 98     |

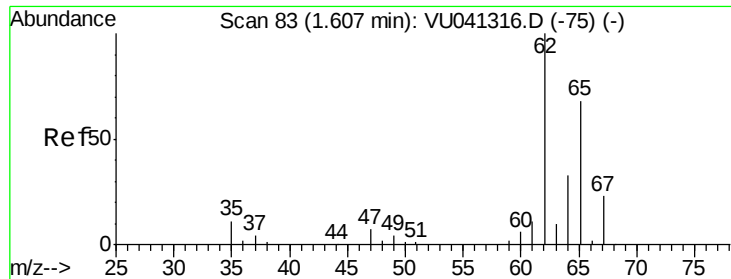
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Nov 19 00:50:13 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 12.936 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041336.D

Acq: 19 Nov 2020 00:58

Instrument :

MSVOA\_U

ClientSampleId :

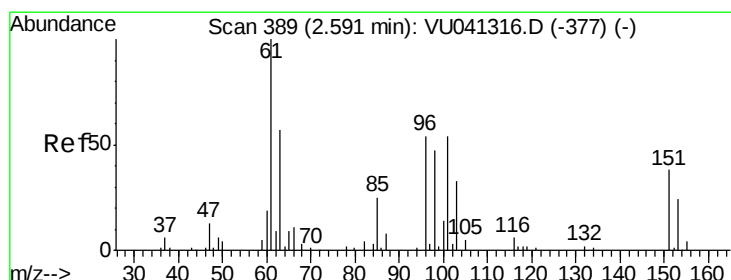
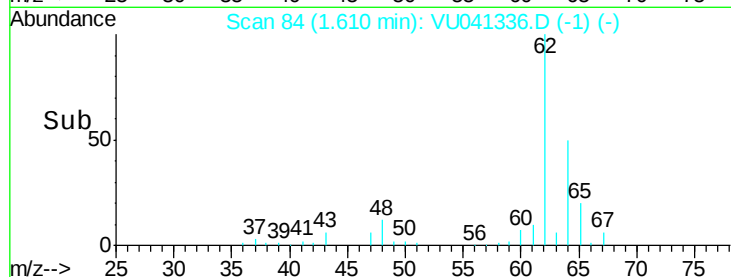
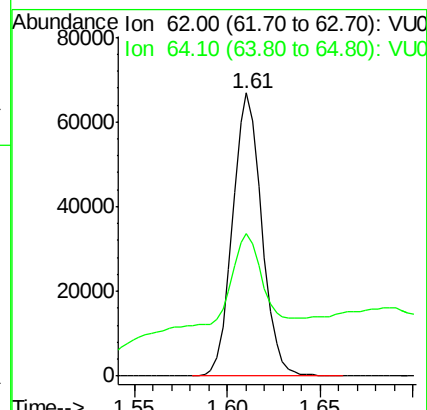
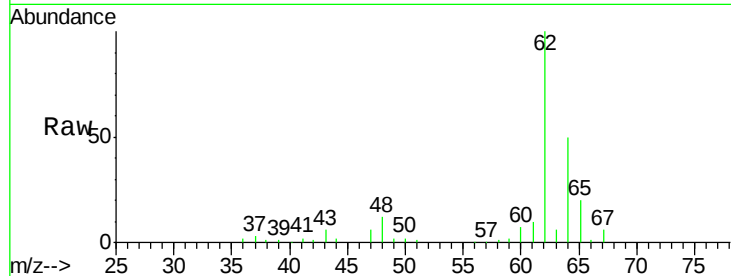
H4419

Tot Ion: 62 Resp: 72643

Ion Ratio Lower Upper

62 100

64 50.3 22.7 42.3#



#12

1,1-Dichloroethene

Concen: 5.870 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU041336.D

Acq: 19 Nov 2020 00:58

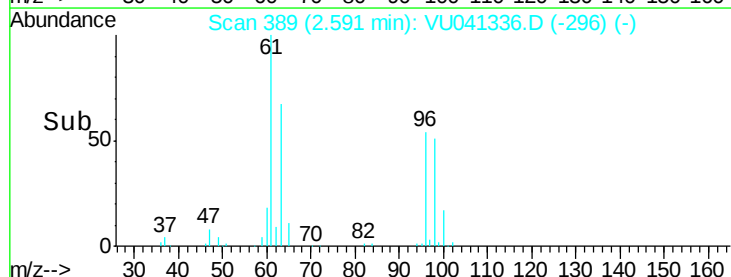
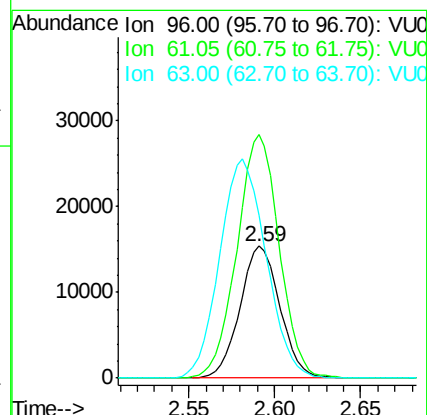
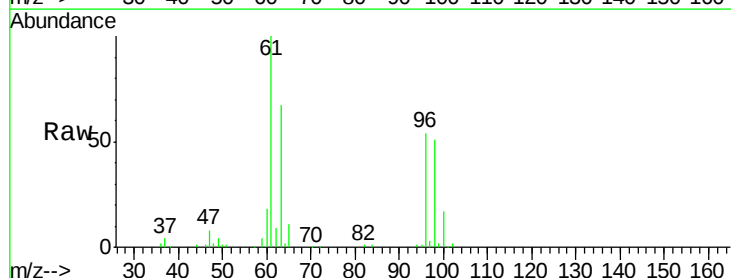
Tgt Ion: 96 Resp: 24720

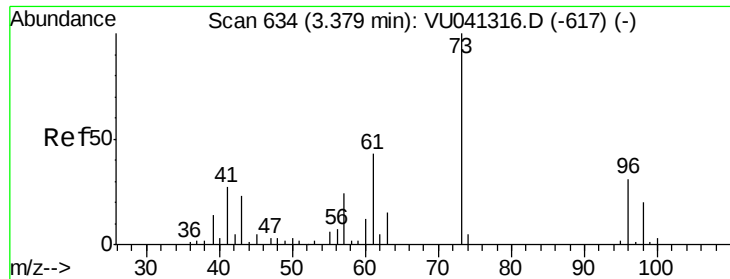
Ion Ratio Lower Upper

96 100

61 184.3 134.3 249.5

63 122.9 95.0 176.4

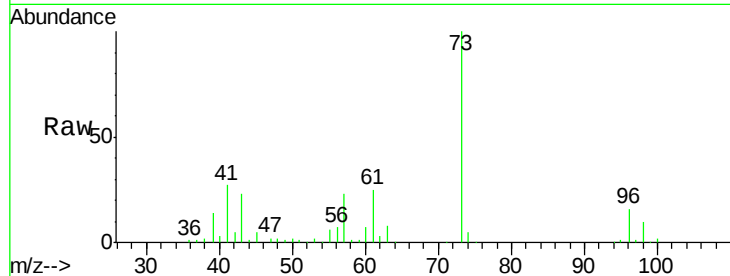




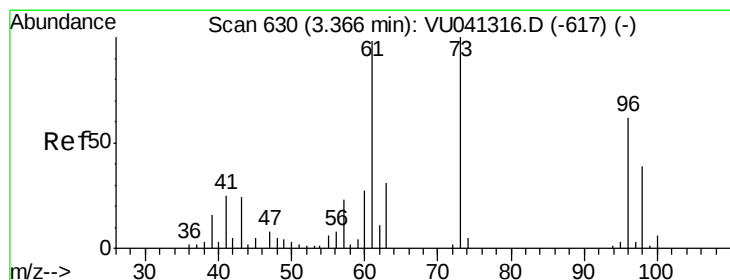
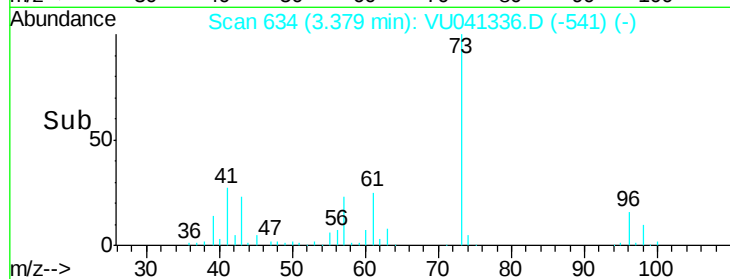
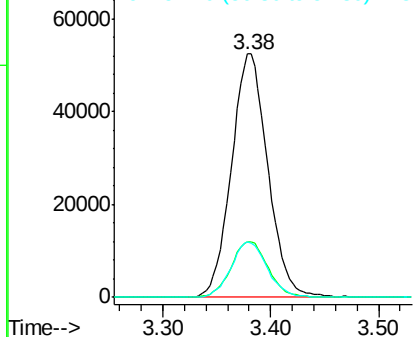
#17  
Methvl tert-butvl Ether  
Concen: 10.675 ug/L  
RT: 3.38 min Scan# 634  
Delta R.T. 0.00 min  
Lab File: VU041336.D  
Acq: 19 Nov 2020 00:58

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4419

Tot Ion: 73 Resp: 123065  
Ion Ratio Lower Upper  
73 100  
43 23.3 18.5 27.7  
57 22.7 18.4 27.6

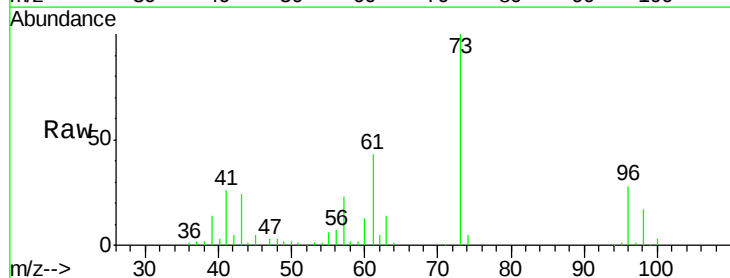


Abundance Ion 73.10 (72.80 to 73.80): VU0  
Ion 43.05 (42.75 to 43.75): VU0  
Ion 57.10 (56.80 to 57.80): VU0

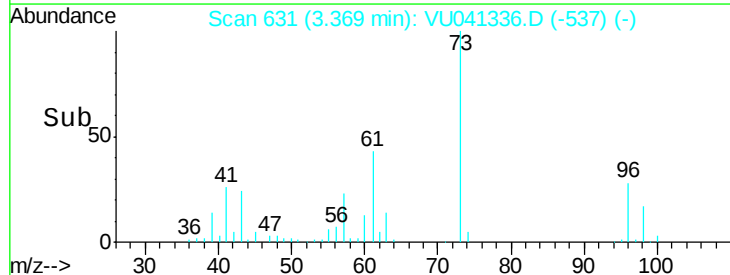
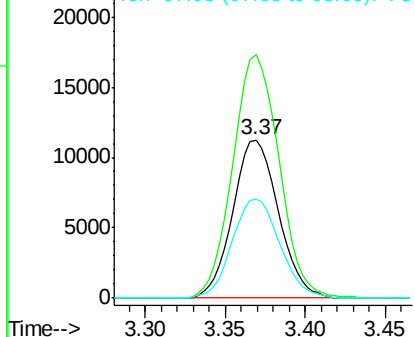


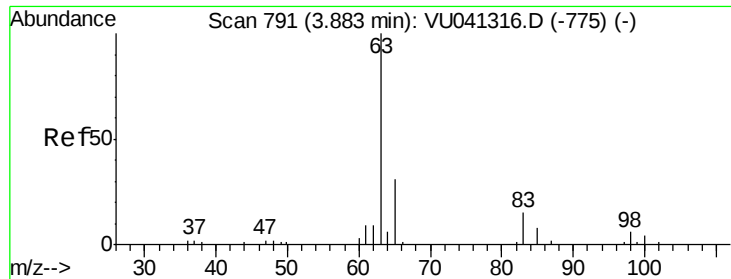
#18  
trans-1,2-Dichloroethene  
Concen: 5.342 ug/L  
RT: 3.37 min Scan# 631  
Delta R.T. 0.00 min  
Lab File: VU041336.D  
Acq: 19 Nov 2020 00:58

Tgt Ion: 96 Resp: 21908  
Ion Ratio Lower Upper  
96 100  
61 154.2 110.9 205.9  
98 62.9 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 97.95 (97.65 to 98.65): VU0

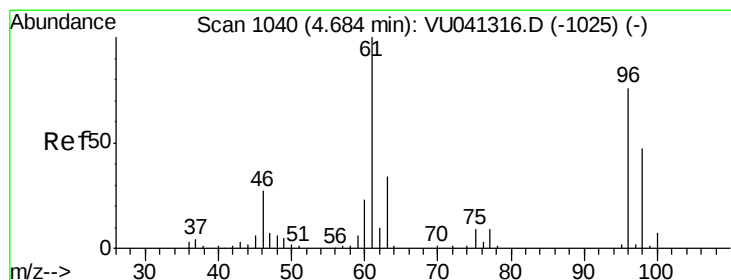
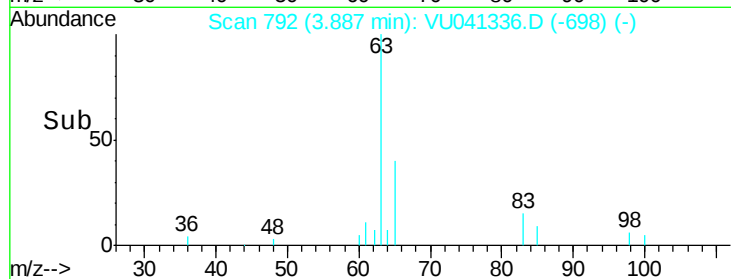
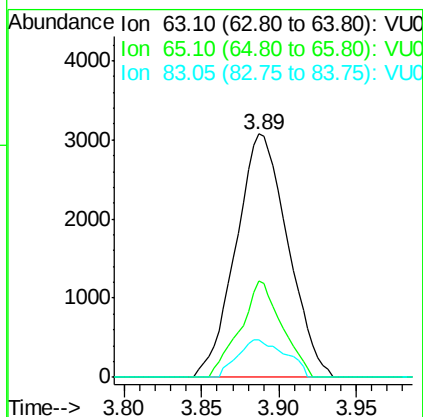
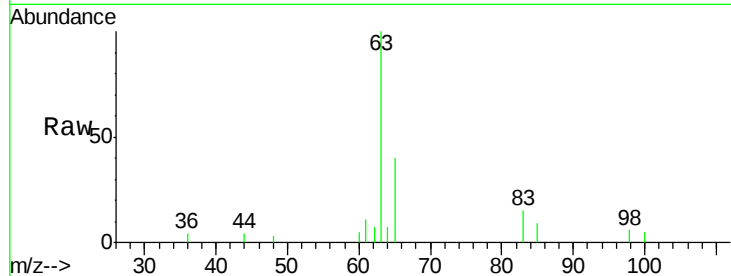




#19  
 1,1-Dichloroethane  
 Concen: 0.783 ug/L  
 RT: 3.89 min Scan# 792  
 Delta R.T. 0.00 min  
 Lab File: VU041336.D  
 Acq: 19 Nov 2020 00:58

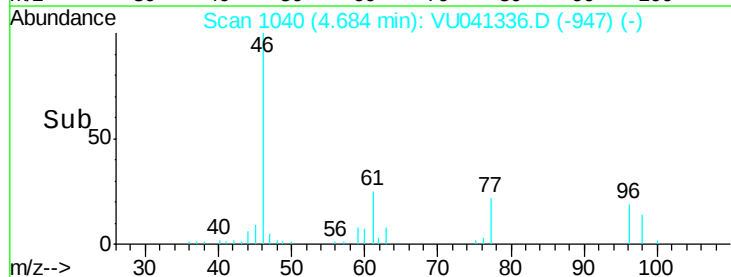
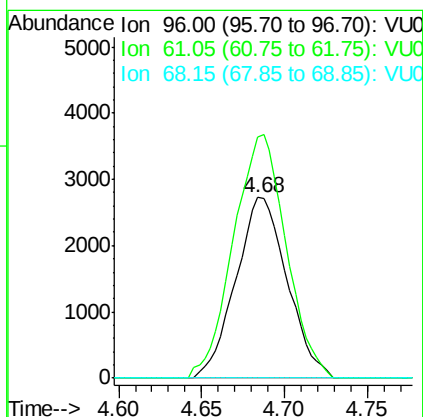
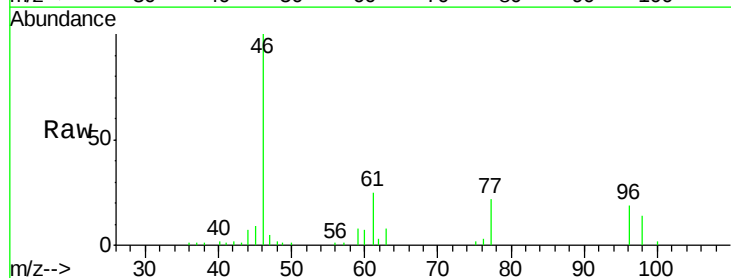
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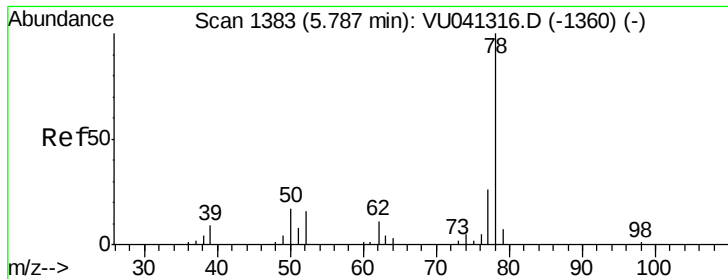
Tot Ion: 63 Resp: 7178  
 Ion Ratio Lower Upper  
 63 100  
 65 39.5 21.3 39.6  
 83 15.4 8.8 16.3



#22  
 cis-1,2-Dichloroethene  
 Concen: 1.266 ug/L  
 RT: 4.68 min Scan# 1040  
 Delta R.T. 0.00 min  
 Lab File: VU041336.D  
 Acq: 19 Nov 2020 00:58

Tgt Ion: 96 Resp: 5866  
 Ion Ratio Lower Upper  
 96 100  
 61 133.4 97.2 180.4  
 68 0.0 0.0 0.0

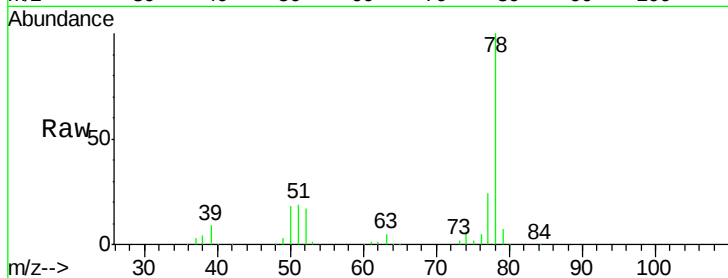




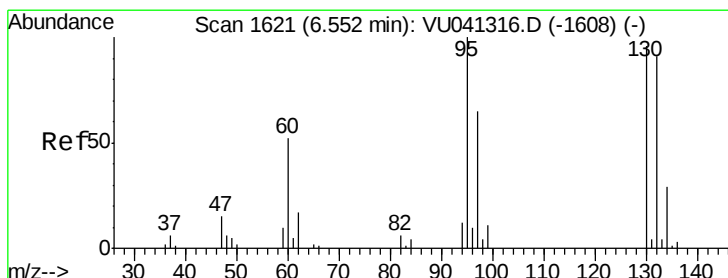
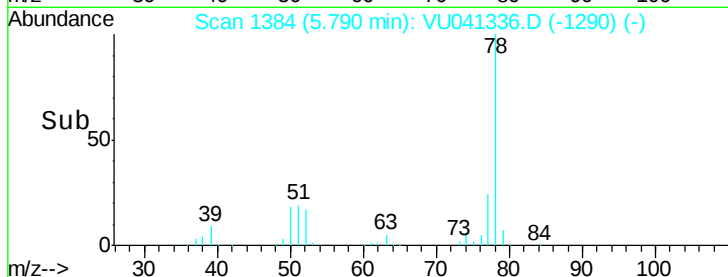
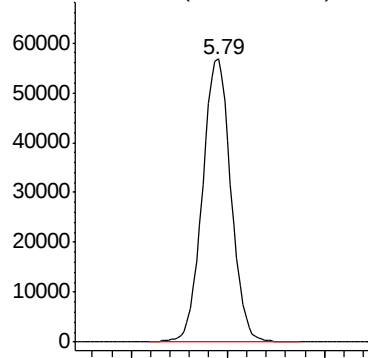
#33  
Benzene  
Concen: 6.564 ug/L  
RT: 5.79 min Scan# 1384  
Delta R.T. 0.00 min  
Lab File: VU041336.D  
Acq: 19 Nov 2020 00:58

Instrument :  
MSVOA\_U  
ClientSampled :  
H4419

Tgt Ion: 78 Resp: 116107



Abundance Ion 78.10 (77.80 to 78.80): VU0



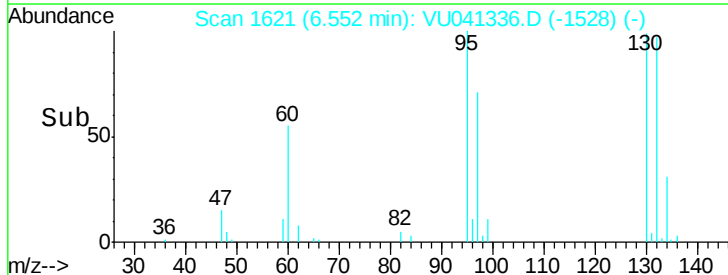
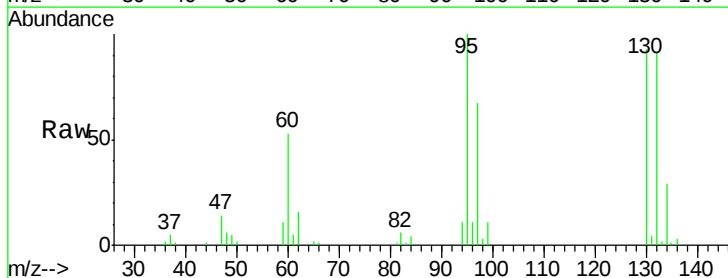
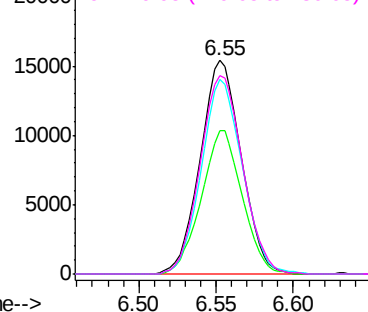
#34  
Trichloroethene  
Concen: 5.947 ug/L  
RT: 6.55 min Scan# 1621  
Delta R.T. 0.00 min  
Lab File: VU041336.D  
Acq: 19 Nov 2020 00:58

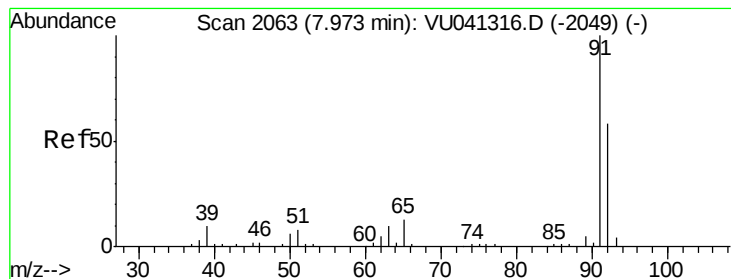
Tgt Ion: 95 Resp: 28432

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 66.9  | 45.6  | 84.6  |
| 132 | 91.1  | 64.8  | 120.4 |
| 130 | 93.1  | 64.8  | 120.4 |

Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0  
Ion 131.95 (131.65 to 132.65): V  
Ion 129.95 (129.65 to 130.65): V





#42

Toluene

Concen: 6.012 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU041336.D

Acq: 19 Nov 2020 00:58

Instrument :

MSVOA\_U

ClientSampleId :

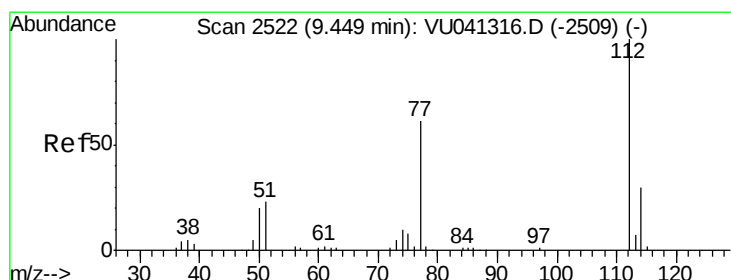
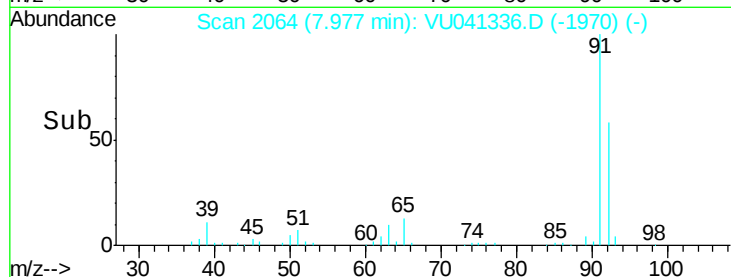
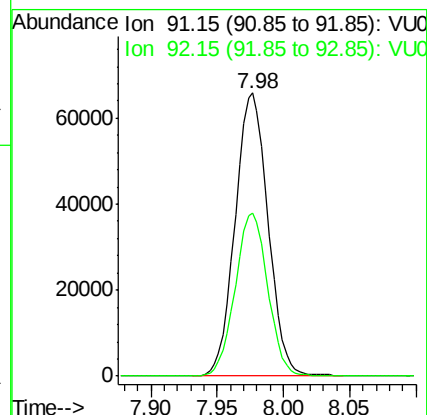
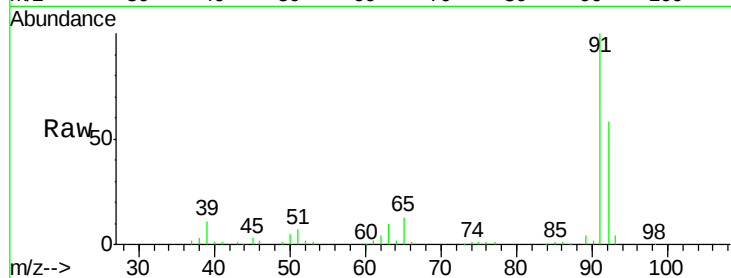
H4419

Tot Ion: 91 Resp: 113649

Ion Ratio Lower Upper

91 100

92 57.8 40.6 75.4



#51

Chlorobenzene

Concen: 5.888 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VU041336.D

Acq: 19 Nov 2020 00:58

Tgt Ion: 112 Resp: 73721

Ion Ratio Lower Upper

112 100

114 31.8 22.4 41.6

77 61.3 51.2 76.8

