

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101219\  
 Data File : VU035127.D  
 Acq On : 12 Oct 2019 07:19  
 Operator : JC/SP  
 Sample : K5309-14  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RD-3-001-01

Quant Time: Oct 14 02:14:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Oct 14 01:16:14 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 166045   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 177778   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 69313    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 52456    | 5.35     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 107.00% |
| 7) Chloroethane-d5             | 1.68   | 69    | 49605    | 5.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 108.20% |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 77712    | 3.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 75.20%  |
| 20) 2-Butanone-d5              | 4.17   | 46    | 153139   | 52.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 105.96% |
| 24) Chloroform-d               | 4.62   | 84    | 100553   | 5.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 109.60% |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 56940    | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 103.60% |
| 32) Benzene-d6                 | 5.32   | 84    | 191101   | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 68878    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 98.80%  |
| 41) Toluene-d8                 | 7.55   | 98    | 166496   | 4.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 82.60%  |
| 43) trans-1,3-Dichloropropene- | 7.84   | 79    | 19370    | 3.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 77.20%  |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 111956   | 46.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 93.86%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 59098    | 5.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 100.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 61184    | 5.23     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 104.60% |

## Target Compounds

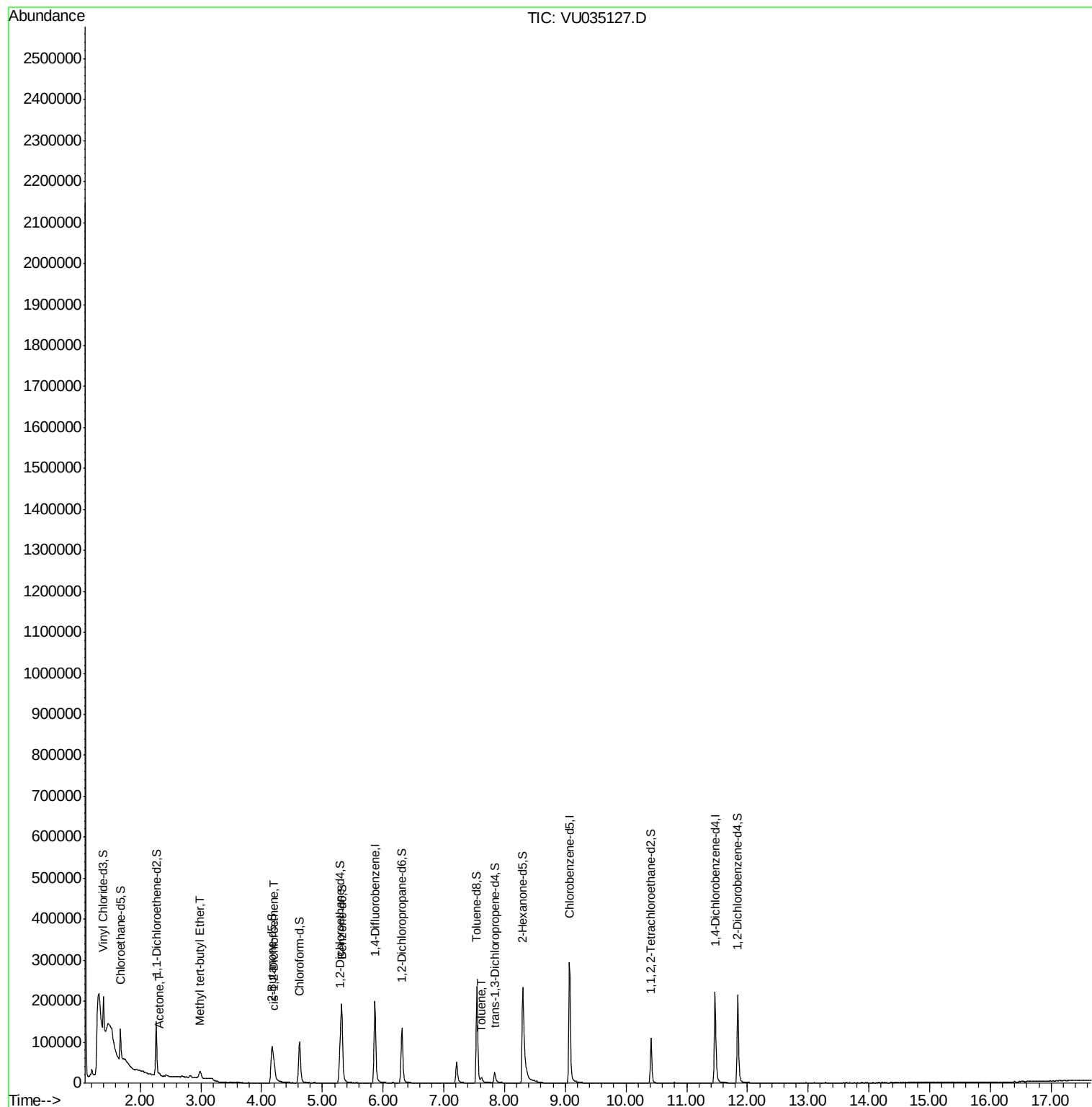
|                             |      |    |       |              | Ovalue |
|-----------------------------|------|----|-------|--------------|--------|
| 13) Acetone                 | 2.31 | 43 | 5981  | 2.526 ug/L   | 96     |
| 17) Methyl tert-butyl Ether | 2.99 | 73 | 15633 | 0.537 ug/L # | 95     |
| 22) cis-1,2-Dichloroethene  | 4.20 | 96 | 18687 | 1.467 ug/L   | 96     |
| 42) Toluene                 | 7.62 | 91 | 9045  | 0.162 ug/L   | 89     |

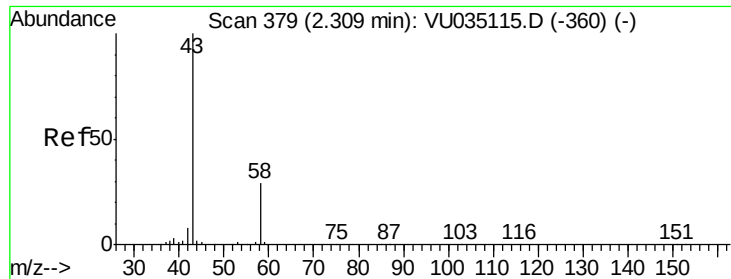
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 2.526 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU035127.D

Acq: 12 Oct 2019 07:19

Instrument :

MSVOA\_U

ClientSampleId :

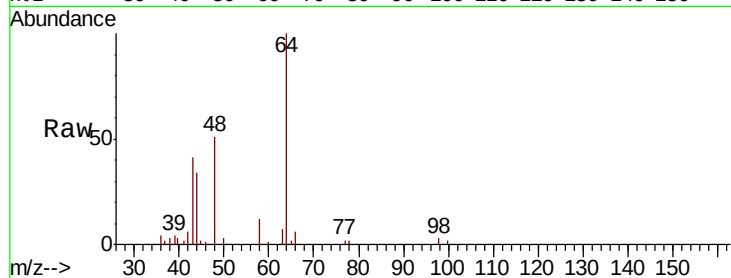
RD-3-001-01

Tot Ion: 43 Resp: 5981

Ion Ratio Lower Upper

43 100

58 30.8 0.0 66.6



Abundance Ion 43.05 (42.75 to 43.75): VU035127.D (-286) (-)

Ion 58.05 (57.75 to 58.75): VU035127.D (-286) (-)

2.31

3000

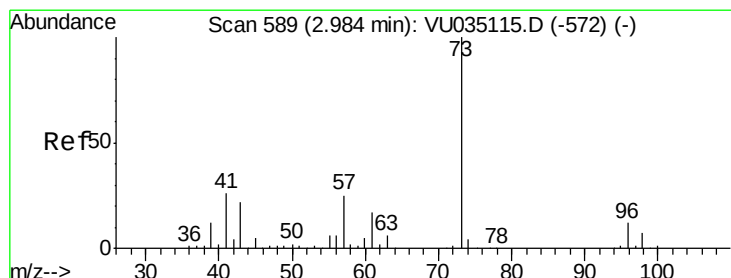
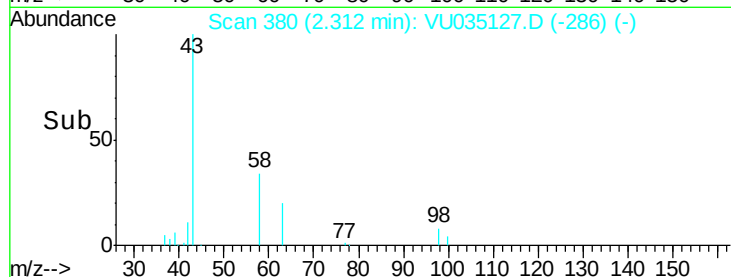
2000

1000

0

Time-->

2.25 2.30 2.35



#17

Methyl tert-butyl Ether

Concen: 0.537 ug/L

RT: 2.99 min Scan# 590

Delta R.T. 0.00 min

Lab File: VU035127.D

Acq: 12 Oct 2019 07:19

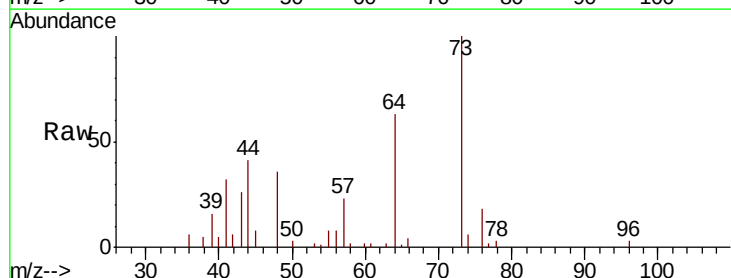
Tgt Ion: 73 Resp: 15633

Ion Ratio Lower Upper

73 100

43 24.9 16.3 24.5#

57 23.7 18.6 28.0



Abundance Ion 73.10 (72.80 to 73.80): VU035127.D (-496) (-)

Ion 43.05 (42.75 to 43.75): VU035127.D (-496) (-)

Ion 57.10 (56.80 to 57.80): VU035127.D (-496) (-)

2.99

8000

6000

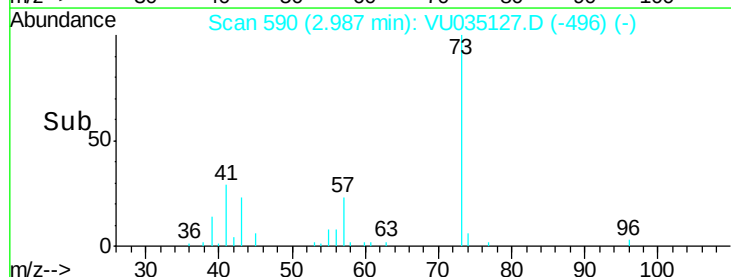
4000

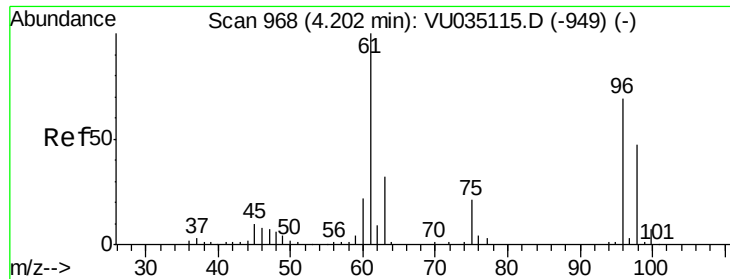
2000

0

Time-->

2.90 2.95 3.00 3.05





#22

cis-1,2-Dichloroethene

Concen: 1.467 ug/L

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU035127.D

Acq: 12 Oct 2019 07:19

Instrument :

MSVOA\_U

ClientSampleId :

RD-3-001-01

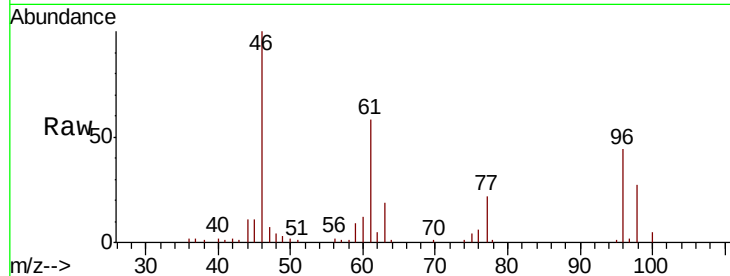
Tot Ion: 96 Resp: 18687

Ion Ratio Lower Upper

96 100

61 132.3 89.2 165.6

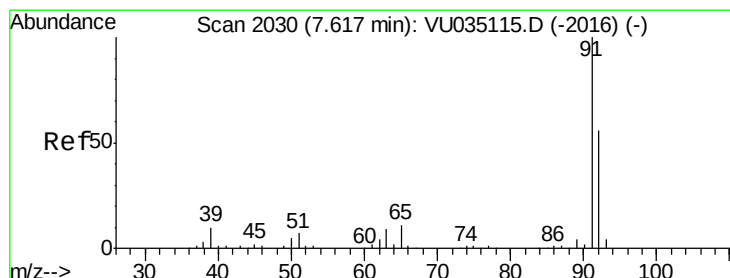
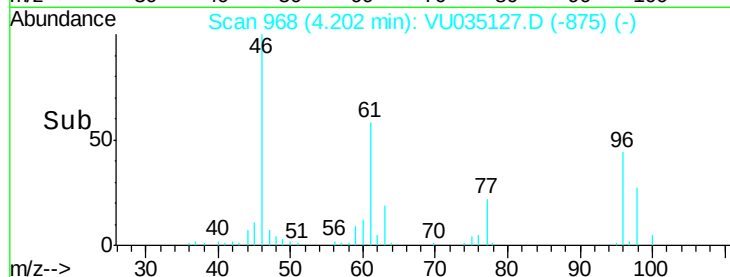
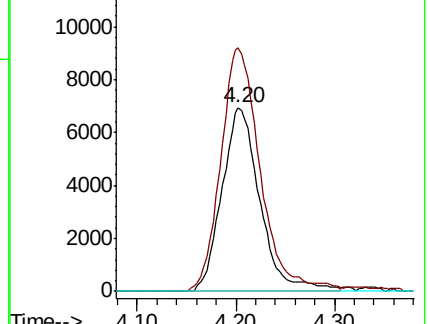
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035115.D (-949) (-)

Ion 61.05 (60.75 to 61.75): VU035115.D (-949) (-)

Ion 68.15 (67.85 to 68.85): VU035115.D (-949) (-)



#42

Toluene

Concen: 0.162 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU035127.D

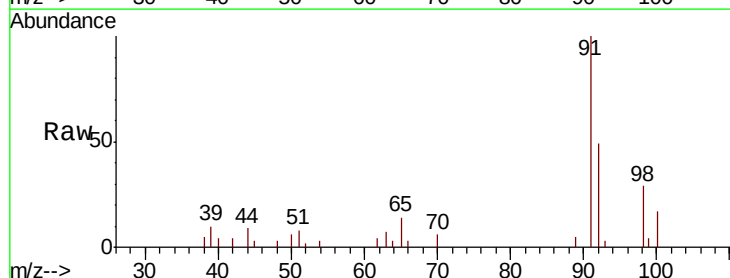
Acq: 12 Oct 2019 07:19

Tgt Ion: 91 Resp: 9045

Ion Ratio Lower Upper

91 100

92 49.0 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU035115.D (-1916) (-)

Ion 92.15 (91.85 to 92.85): VU035115.D (-1916) (-)

