

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101219\  
 Data File : VU035102.D  
 Acq On : 11 Oct 2019 20:21  
 Operator : JC/SP  
 Sample : K5310-04MS  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 IW-2-001-01MS

Manual Integrations  
 APPROVED

MMDadoda  
 10/15/2019 6:05:55 AM

Quant Time: Oct 12 04:19:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Oct 12 02:39:23 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 170491   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 177404   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 76189    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 54588    | 5.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 108.40% |
| 7) Chloroethane-d5             | 1.67   | 69    | 49260    | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 104.80% |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 100284   | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 94.40%  |
| 20) 2-Butanone-d5              | 4.19   | 46    | 119963   | 40.42    | ug/L | 0.02    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 80.84%  |
| 24) Chloroform-d               | 4.62   | 84    | 98728    | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 104.80% |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 55221    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.80%  |
| 32) Benzene-d6                 | 5.31   | 84    | 191226   | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 65345    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.00%  |
| 41) Toluene-d8                 | 7.55   | 98    | 164244   | 4.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 81.60%  |
| 43) trans-1,3-Dichloropropene- | 7.84   | 79    | 20936    | 4.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 83.80%  |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 115190   | 48.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 96.78%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 55675    | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 95.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 63471    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.80%  |

## Target Compounds

| Target Compounds             | R.T. | QIon | Response | Conc   | Units | Ovalue |
|------------------------------|------|------|----------|--------|-------|--------|
| 5) Vinyl chloride            | 1.40 | 62   | 148441   | 8.842  | ug/L  | 98     |
| 12) 1,1-Dichloroethene       | 2.27 | 96   | 38642    | 3.529  | ug/L  | 90     |
| 14) Carbon disulfide         | 2.62 | 76   | 120399m  | 3.304  | ug/L  |        |
| 18) trans-1,2-Dichloroethene | 2.96 | 96   | 163660   | 13.957 | ug/L  | 92     |
| 22) cis-1,2-Dichloroethene   | 4.20 | 96   | 10920    | 0.835  | ug/L  | 99     |
| 33) Benzene                  | 5.36 | 78   | 201458   | 3.770  | ug/L  | 100    |
| 34) Trichloroethene          | 6.16 | 95   | 50891    | 3.693  | ug/L  | 97     |
| 42) Toluene                  | 7.62 | 91   | 222888   | 3.996  | ug/L  | 96     |
| 51) Chlorobenzene            | 9.10 | 112  | 223064   | 6.171  | ug/L  | 99     |

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

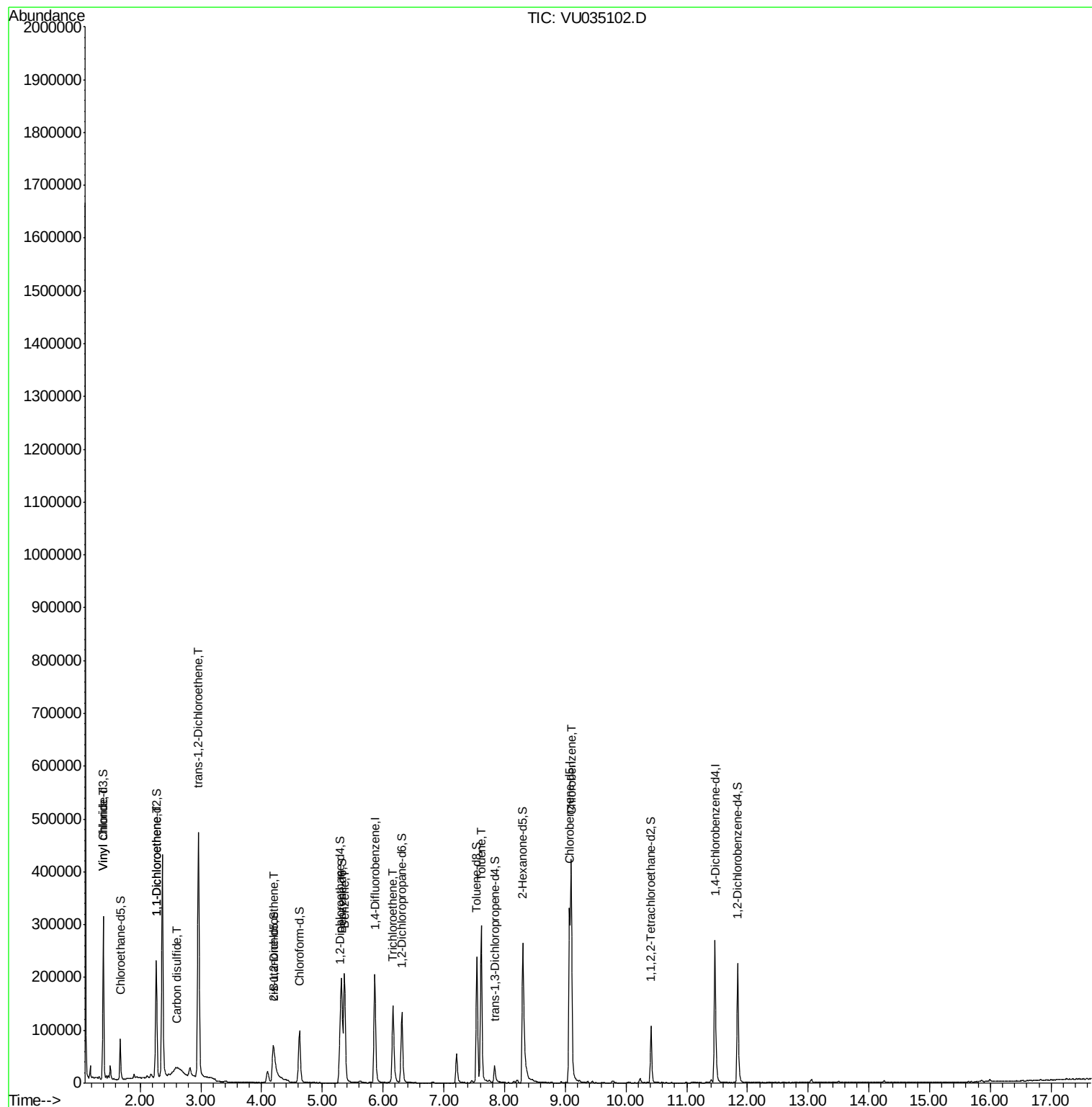
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU101219\  
Data File : VU035102.D  
Acq On : 11 Oct 2019 20:21  
Operator : JC/SP  
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Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 27 Sample Multiplier: 1

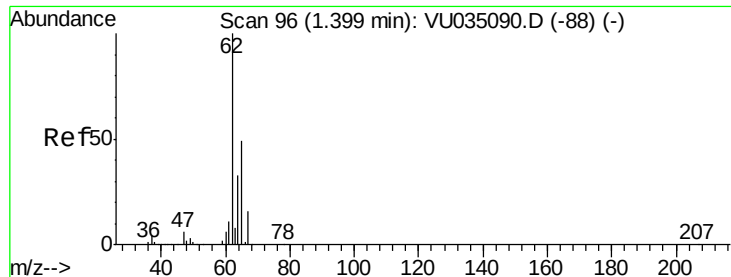
Instrument :  
MSVOA\_U  
ClientSampleId :  
IW-2-001-01MS

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Quant Time: Oct 12 04:19:53 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 12 02:39:23 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 8.842 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU035102.D

Acq: 11 Oct 2019 20:21

Instrument :

MSVOA\_U

ClientSampleId :

IW-2-001-01MS

Tot Ion: 62 Resp: 148441

Ion Ratio Lower Upper

62 100

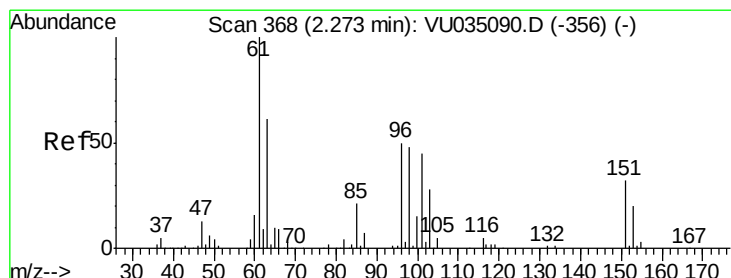
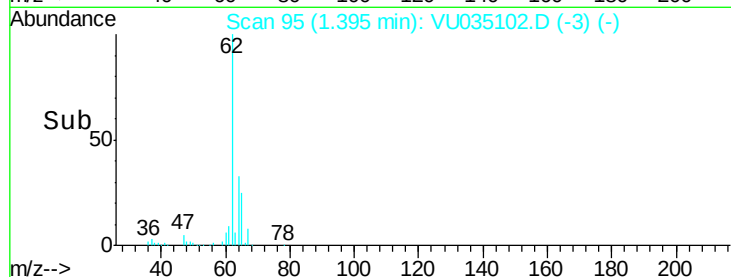
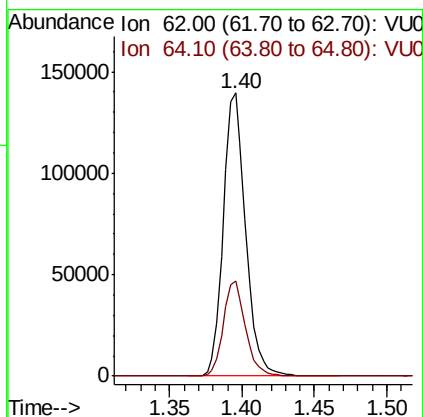
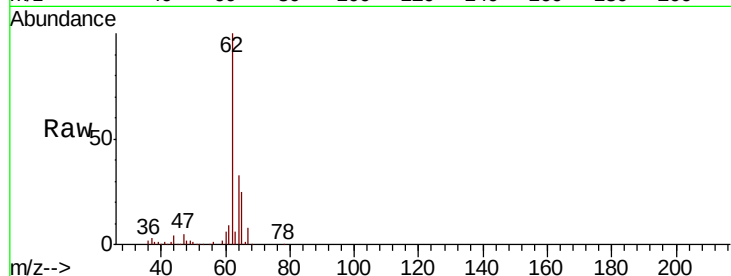
64 33.5 22.8 42.4

Manual Integrations

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#12

1,1-Dichloroethene

Concen: 3.529 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU035102.D

Acq: 11 Oct 2019 20:21

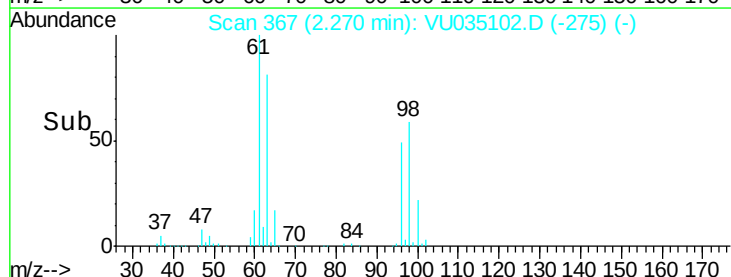
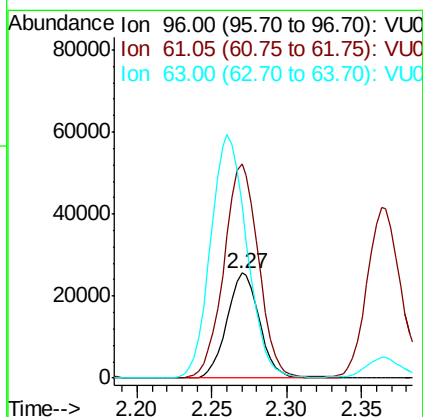
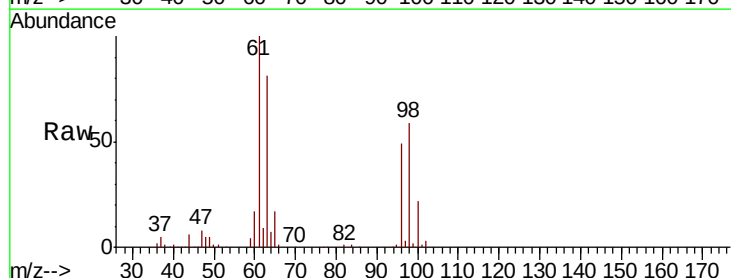
Tgt Ion: 96 Resp: 38642

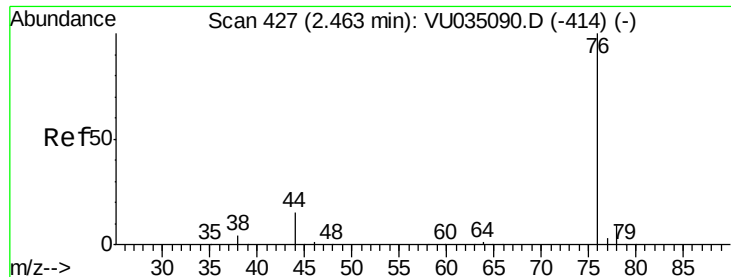
Ion Ratio Lower Upper

96 100

61 204.0 129.3 240.1

63 164.6 108.9 202.3





#14

Carbon disulfide

Concen: 3.304 ug/L m

RT: 2.62 min Scan# 475

Delta R.T. 0.15 min

Lab File: VU035102.D

Acq: 11 Oct 2019 20:21

Instrument :

MSVOA\_U

ClientSampleId :

IW-2-001-01MS

Tot Ion: 76 Resp: 120399

Ion Ratio Lower Upper

76 100

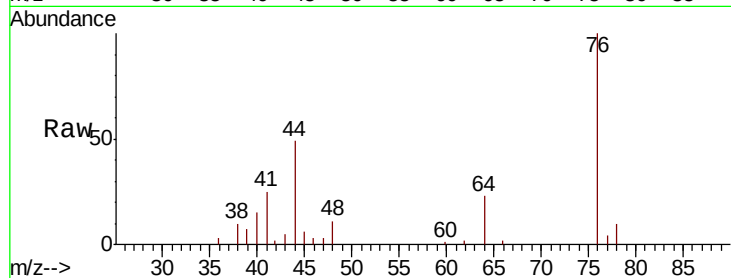
78 10.5 7.1 10.7

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Abundance Ion 76.05 (75.75 to 76.75): VU035102.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU035102.D (-414) (-)

12000

10000

8000

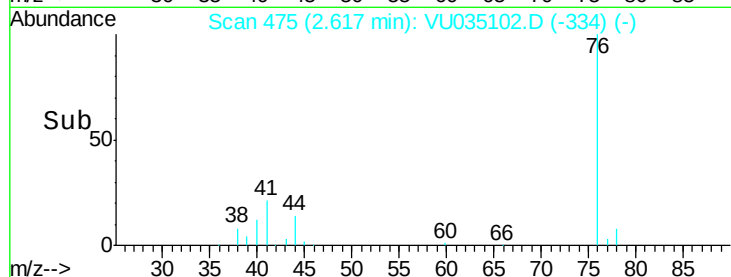
6000

4000

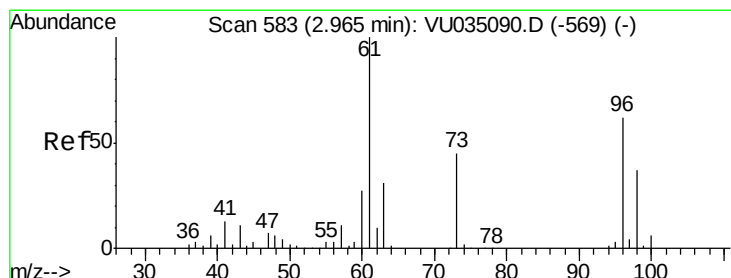
2000

0

Time-->



Time-->



#18

trans-1,2-Dichloroethene

Concen: 13.957 ug/L

RT: 2.96 min Scan# 581

Delta R.T. -0.01 min

Lab File: VU035102.D

Acq: 11 Oct 2019 20:21

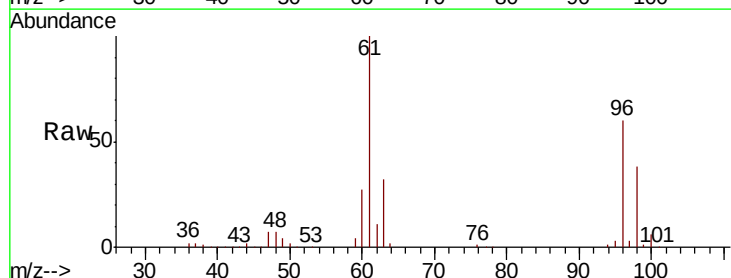
Tgt Ion: 96 Resp: 163660

Ion Ratio Lower Upper

96 100

61 167.0 107.1 198.9

98 63.4 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VU035102.D (-569) (-)

Ion 61.05 (60.75 to 61.75): VU035102.D (-569) (-)

Ion 97.95 (97.65 to 98.65): VU035102.D (-569) (-)

200000

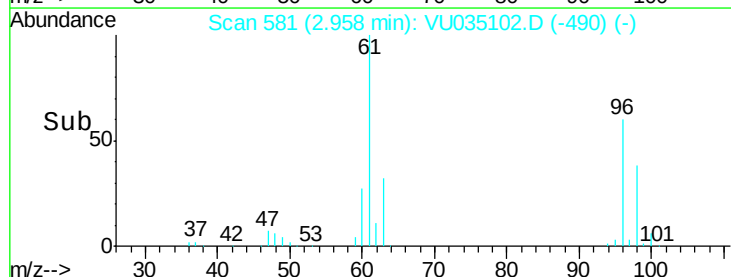
150000

100000

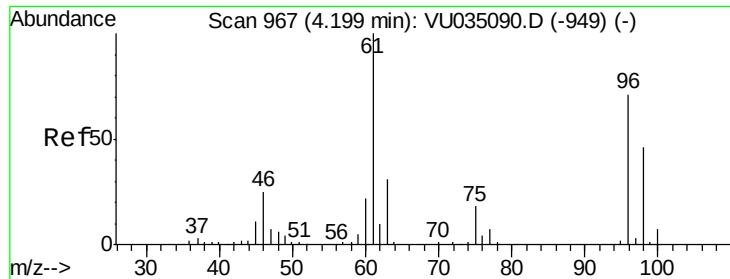
50000

0

Time-->



Time-->



#22

cis-1,2-Dichloroethene

Concen: 0.835 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU035102.D

Acq: 11 Oct 2019 20:21

Instrument :

MSVOA\_U

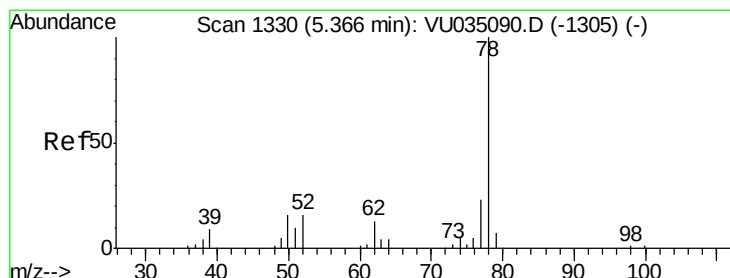
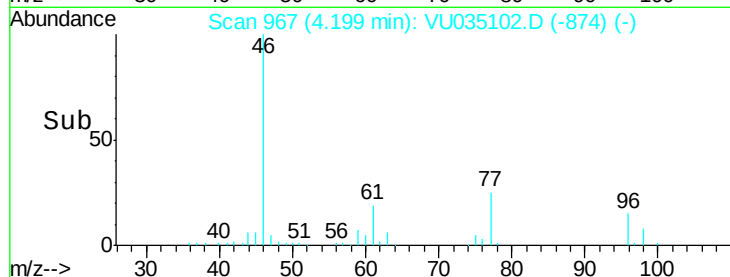
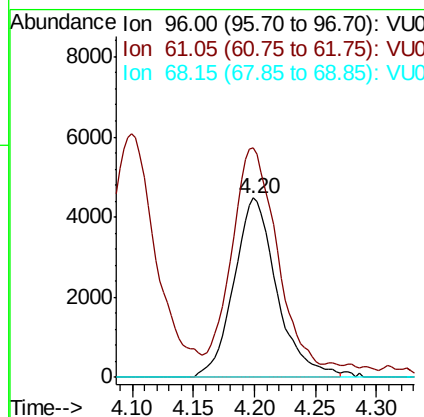
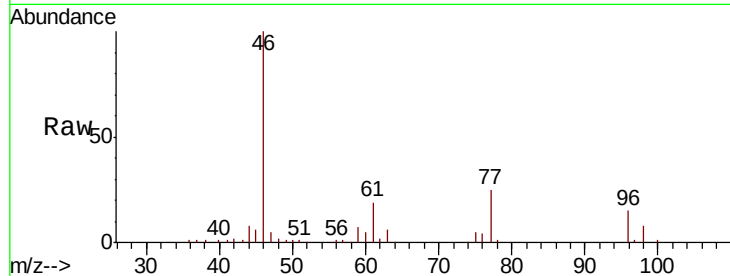
ClientSampleId :

IW-2-001-01MS

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 96      | 100   |       |       |       |
| 61      | 128.5 | 89.2  | 165.6 |       |
| 68      | 0.0   | 0.0   | 0.0   |       |

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#33

Benzene

Concen: 3.770 ug/L

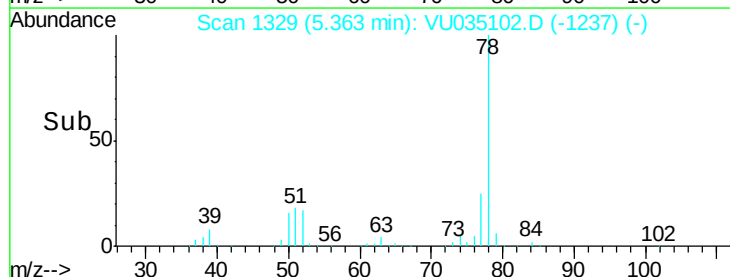
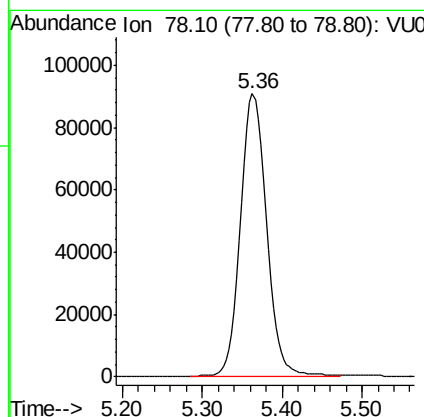
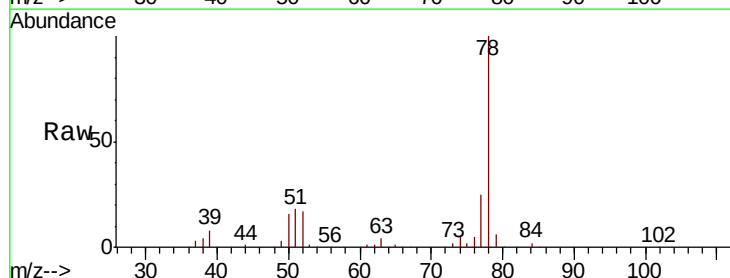
RT: 5.36 min Scan# 1329

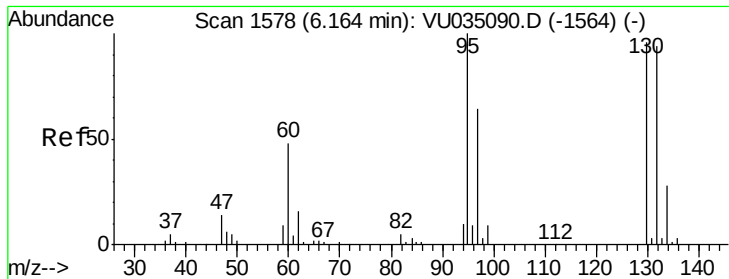
Delta R.T. -0.00 min

Lab File: VU035102.D

Acq: 11 Oct 2019 20:21

Tgt Ion: 78 Resp: 201458





#34

Trichloroethene

Concen: 3.693 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU035102.D

Acq: 11 Oct 2019 20:21

Instrument :

MSVOA\_U

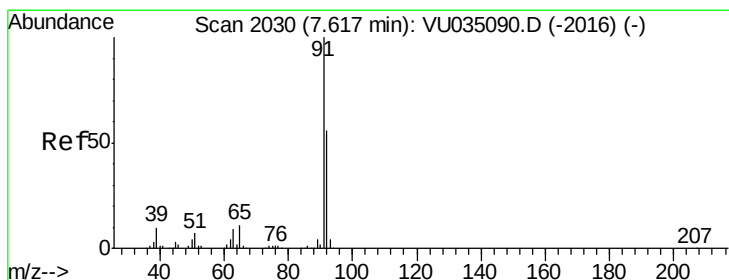
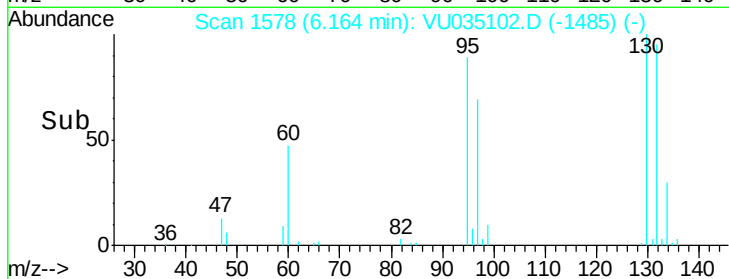
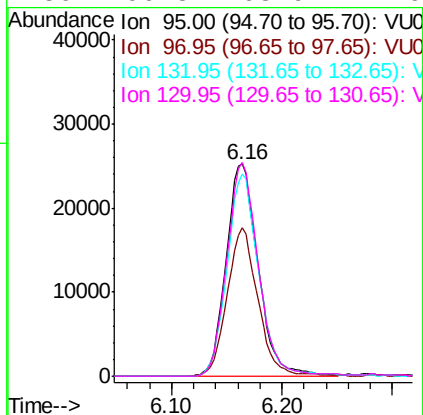
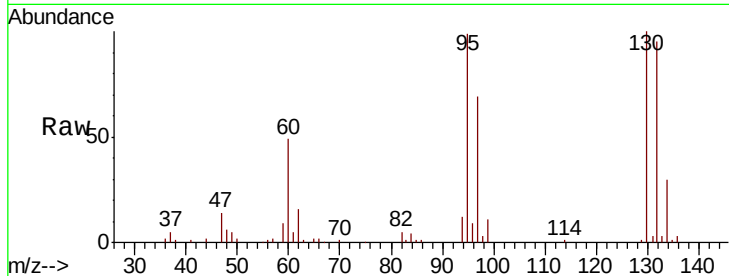
ClientSampleId :

IW-2-001-01MS

| Tot Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 95      | 100   |       | 50891 |       |       |
| 97      | 69.9  | 44.5  | 82.7  |       |       |
| 132     | 95.4  | 66.6  | 123.8 |       |       |
| 130     | 100.8 | 68.9  | 127.9 |       |       |

Manual Integrations  
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#42

Toluene

Concen: 3.996 ug/L

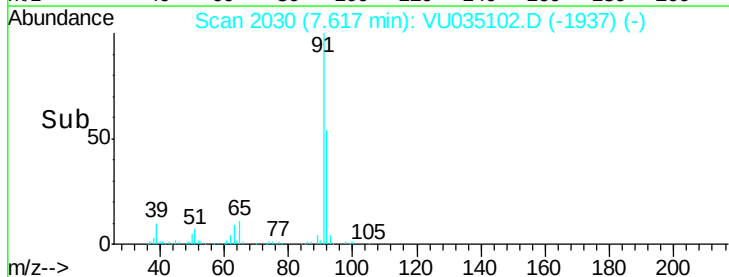
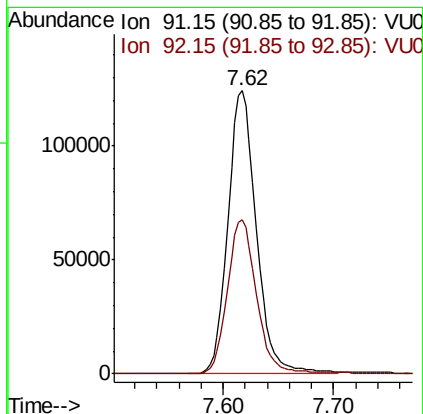
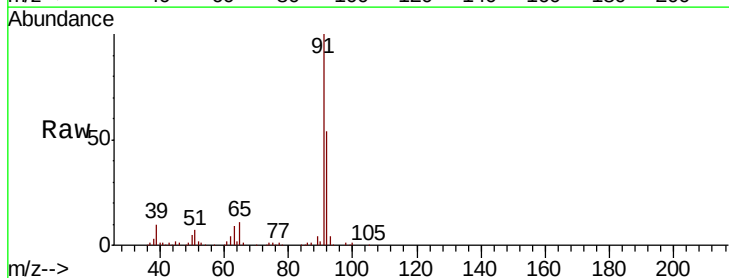
RT: 7.62 min Scan# 2030

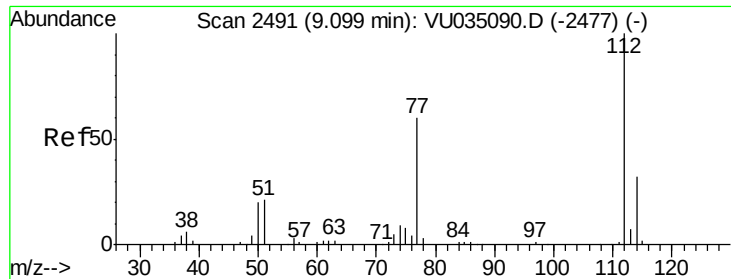
Delta R.T. -0.00 min

Lab File: VU035102.D

Acq: 11 Oct 2019 20:21

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 91      | 100  |       | 222888 |       |       |
| 92      | 54.3 | 40.0  | 74.2   |       |       |





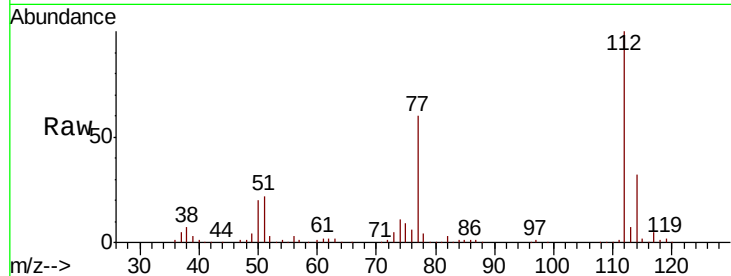
#51  
 Chlorobenzene  
 Concen: 6.171 ug/L  
 RT: 9.10 min Scan# 2491  
 Delta R.T. -0.00 min  
 Lab File: VU035102.D  
 Acq: 11 Oct 2019 20:21

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 IW-2-001-01MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 112   | Resp: | 223064 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 114       | 31.6  | 22.1  | 41.1   |
| 77        | 59.7  | 46.9  | 70.3   |

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 10/15/2019 6:05:55 AM



Abundance Ion 112.10 (111.80 to 112.80): V  
 Ion 114.05 (113.75 to 114.75): V  
 Ion 77.10 (76.80 to 77.80): VU0

