

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112219\  
 Data File : VV013743.D  
 Acq On : 22 Nov 2019 18:59  
 Operator : SY/MD  
 Sample : K5941-13  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 B0AC5

Manual Integrations  
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MMDadoda  
 11/26/2019 12:53:45 PM

Quant Time: Nov 23 03:12:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR112219WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Nov 23 01:35:18 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 327420   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 323643   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 149350   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 108893   | 5.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 107.40% |
| 7) Chloroethane-d5             | 1.58   | 69    | 99428    | 5.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 115.60% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 155658   | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 91.20%  |
| 20) 2-Butanone-d5              | 3.92   | 46    | 245592   | 58.30    | ug/L | -0.03   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 116.60% |
| 24) Chloroform-d               | 4.40   | 84    | 225902   | 5.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 110.60% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 109537   | 5.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 112.60% |
| 32) Benzene-d6                 | 5.10   | 84    | 433209   | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.80% |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 133471   | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 107.20% |
| 41) Toluene-d8                 | 7.36   | 98    | 381685   | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.40%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 45371    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.60%  |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 181261   | 50.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 101.48% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 95233    | 5.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 110.40% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 156029   | 5.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 118.40% |

## Target Compounds

| Target Compounds           | R.T. | QIon | Response | Conc   | Units | Ovalue |
|----------------------------|------|------|----------|--------|-------|--------|
| 12) 1,1-Dichloroethene     | 2.14 | 96   | 15313    | 0.973  | ug/L  | # 1    |
| 13) Acetone                | 2.19 | 43   | 8287m    | 2.813  | ug/L  |        |
| 14) Carbon disulfide       | 2.32 | 76   | 76529    | 2.106  | ug/L  | 97     |
| 16) Methylene chloride     | 2.54 | 84   | 6377     | 0.296  | ug/L  | 95     |
| 19) 1,1-Dichloroethane     | 3.23 | 63   | 56599    | 1.595  | ug/L  | 97     |
| 22) cis-1,2-Dichloroethene | 3.96 | 96   | 49497    | 2.374  | ug/L  | 95     |
| 25) Chloroform             | 4.42 | 83   | 45446    | 1.208  | ug/L  | 98     |
| 34) Trichloroethene        | 5.96 | 95   | 560076   | 25.574 | ug/L  | 98     |
| 38) Bromodichloromethane   | 6.56 | 83   | 4078     | 0.151  | ug/L  | 89     |

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

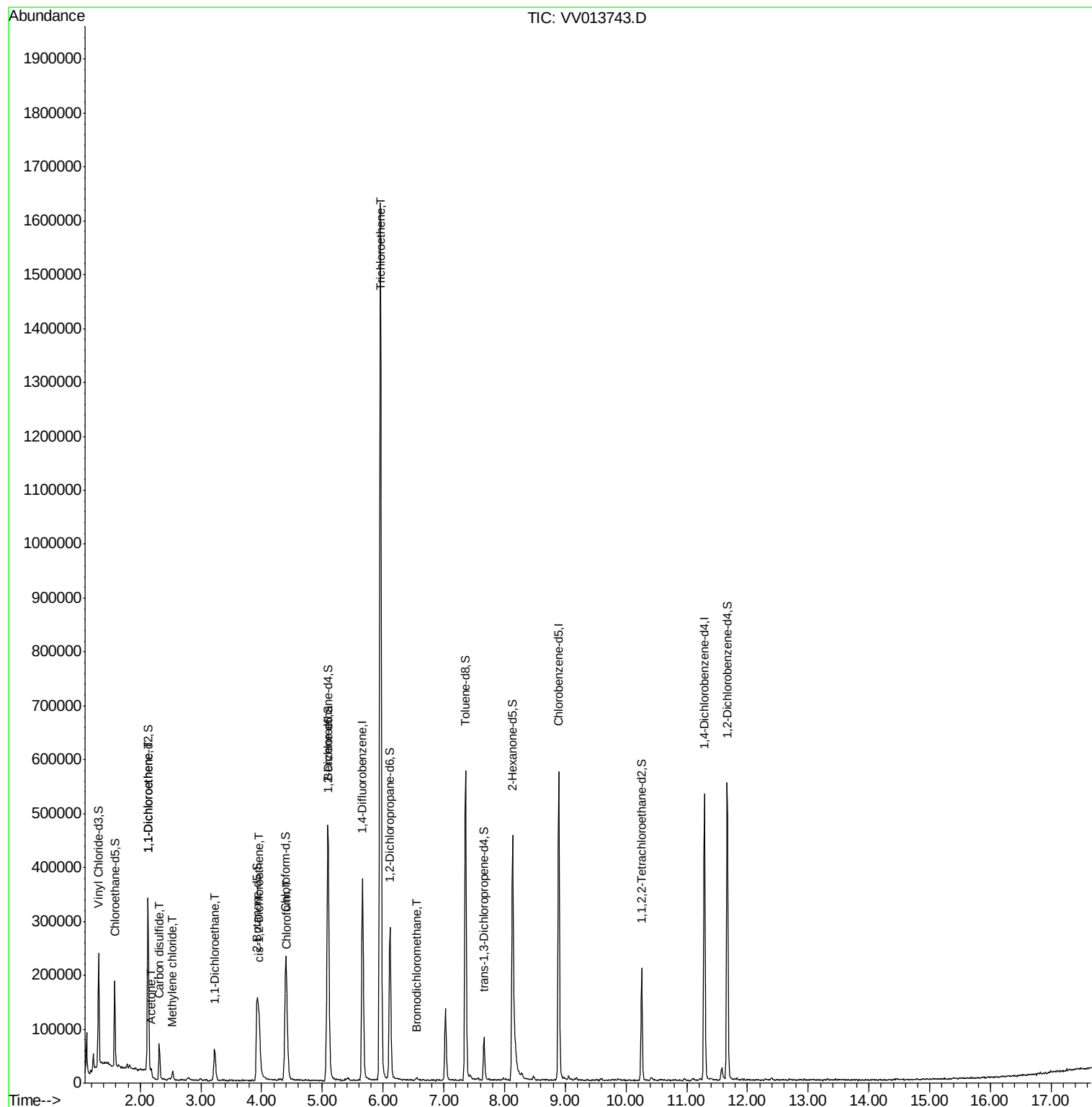
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV112219\  
Data File : VV013743.D  
Acq On : 22 Nov 2019 18:59  
Operator : SY/MD  
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ALS Vial : 21 Sample Multiplier: 1

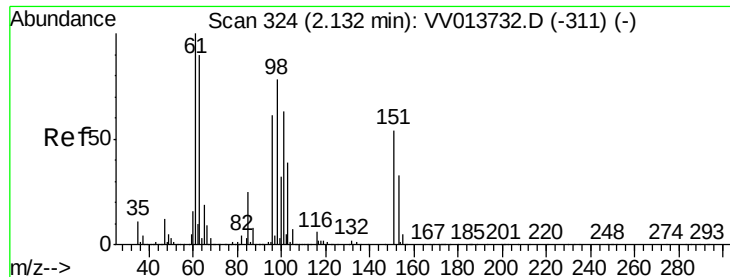
Instrument :  
MSVOA\_V  
ClientSampleId :  
B0AC5

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Quant Time: Nov 23 03:12:04 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR112219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Nov 23 01:35:18 2019  
Response via : Initial Calibration





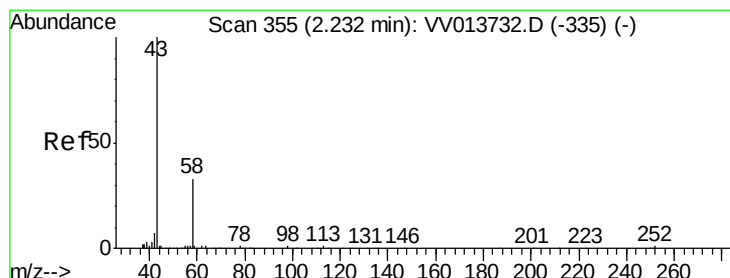
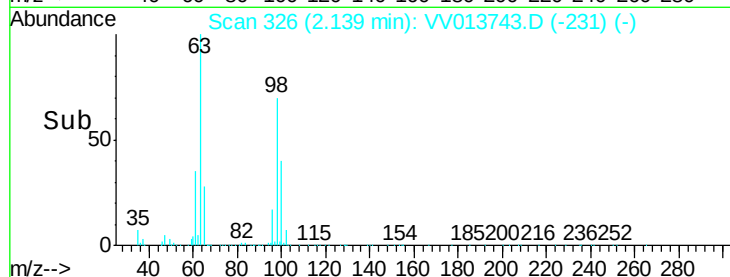
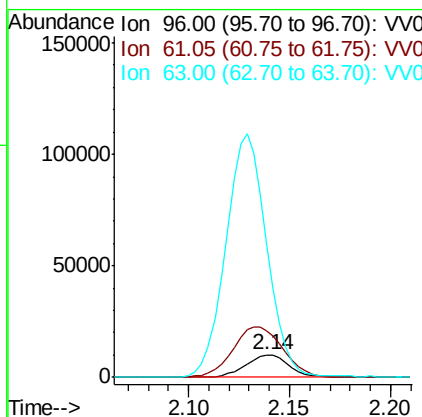
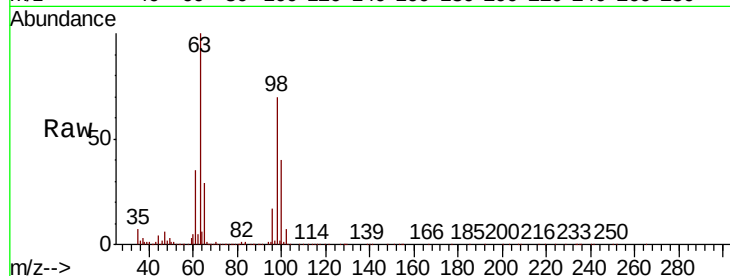
#12  
 1,1-Dichloroethene  
 Concen: 0.973 ug/L  
 RT: 2.14 min Scan# 326  
 Delta R.T. 0.01 min  
 Lab File: VV013743.D  
 Acq: 22 Nov 2019 18:59

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 B0AC5

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 96      | 100   |       |        |
| 61      | 209.3 | 116.3 | 215.9  |
| 63      | 593.5 | 96.7  | 179.7# |

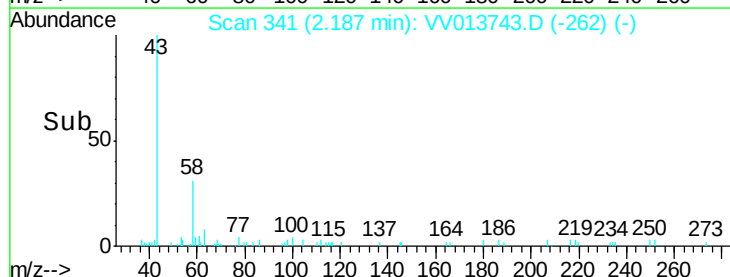
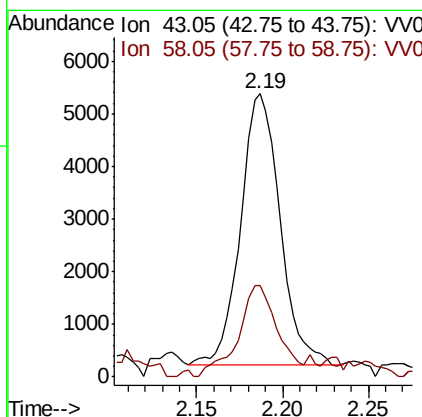
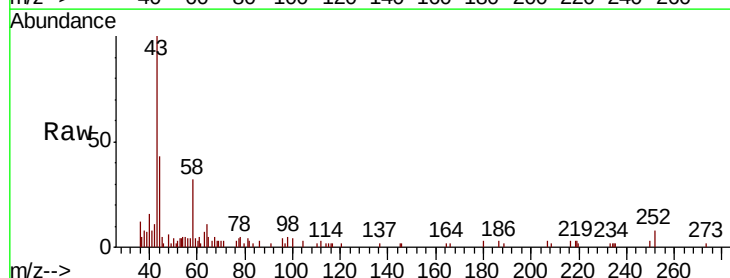
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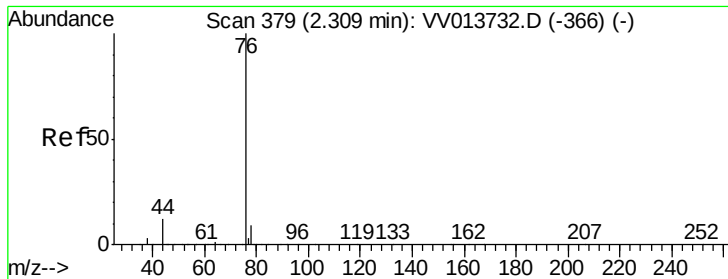
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#13  
 Acetone  
 Concen: 2.813 ug/L m  
 RT: 2.19 min Scan# 341  
 Delta R.T. -0.04 min  
 Lab File: VV013743.D  
 Acq: 22 Nov 2019 18:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 1.2   | 0.0   | 27.2  |





#14

Carbon disulfide

Concen: 2.106 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VV013743.D

Acq: 22 Nov 2019 18:59

Instrument :

MSVOA\_V

ClientSampleId :

B0AC5

Tot Ion: 76 Resp: 76529

Ion Ratio Lower Upper

76 100

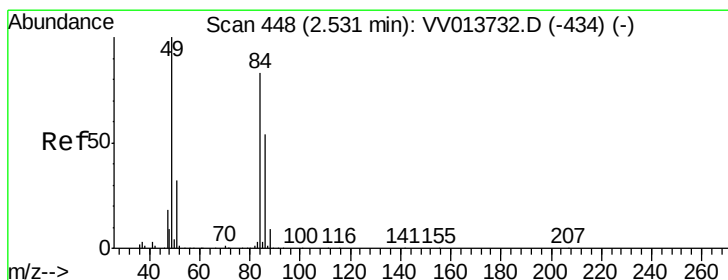
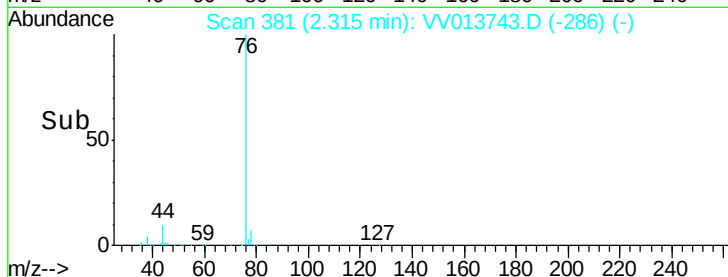
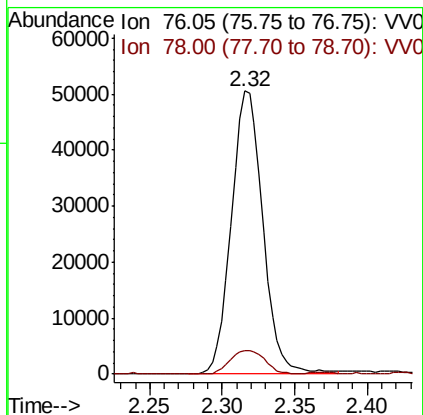
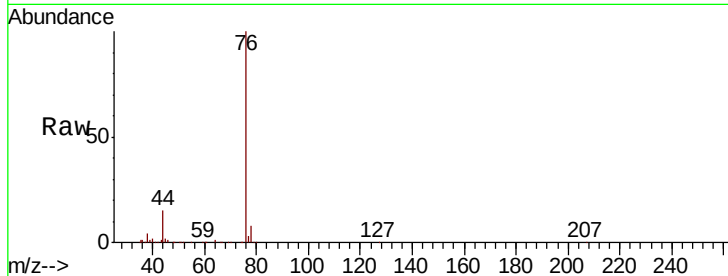
78 8.1 7.5 11.3

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#16

Methylene chloride

Concen: 0.296 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.01 min

Lab File: VV013743.D

Acq: 22 Nov 2019 18:59

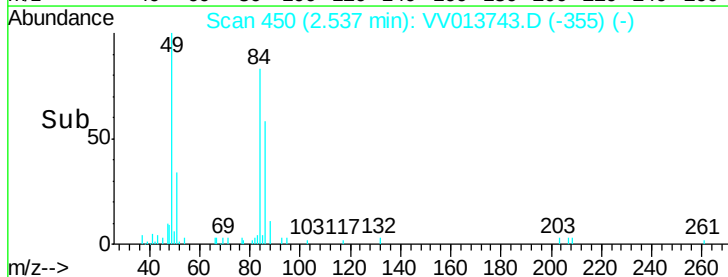
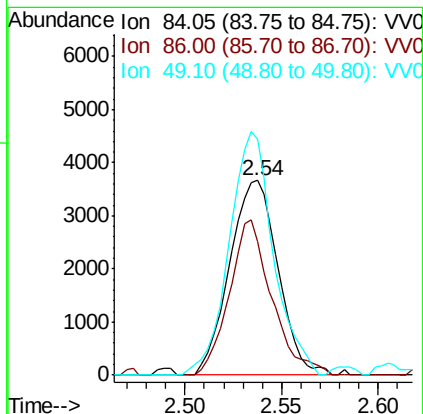
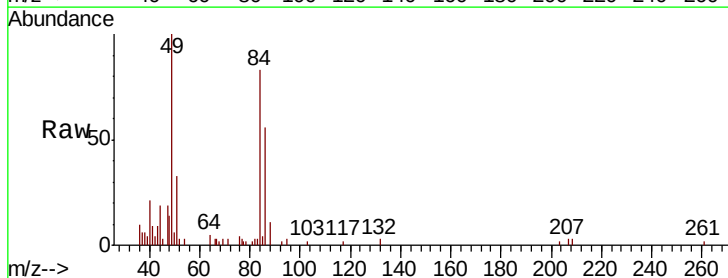
Tgt Ion: 84 Resp: 6377

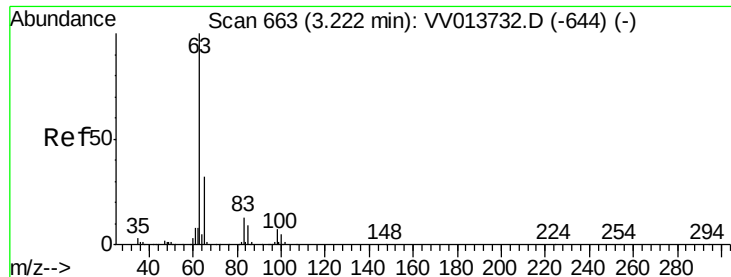
Ion Ratio Lower Upper

84 100

86 68.3 44.0 81.6

49 120.9 81.5 151.5





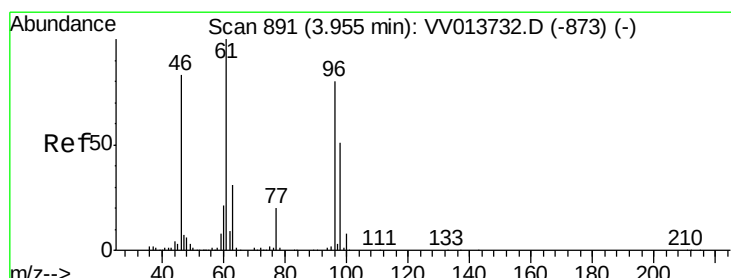
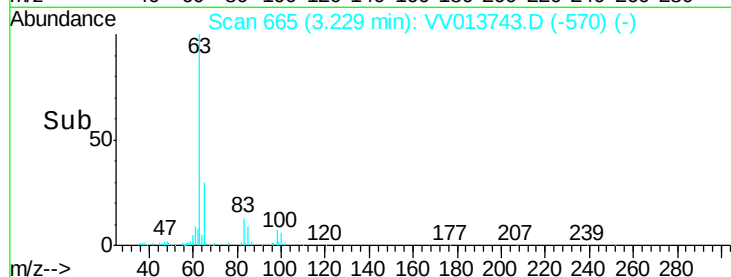
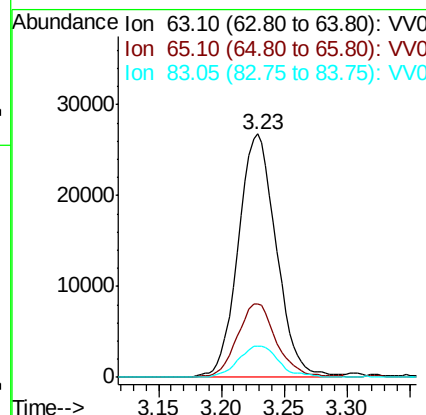
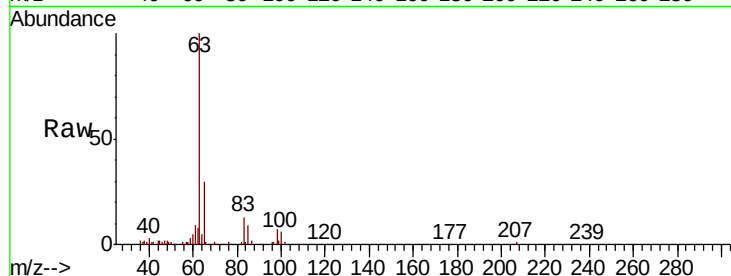
#19  
 1,1-Dichloroethane  
 Concen: 1.595 ug/L  
 RT: 3.23 min Scan# 665  
 Delta R.T. 0.01 min  
 Lab File: VV013743.D  
 Acq: 22 Nov 2019 18:59

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 B0AC5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 30.3  | 22.7  | 42.1  |
| 83      | 12.8  | 9.2   | 17.2  |

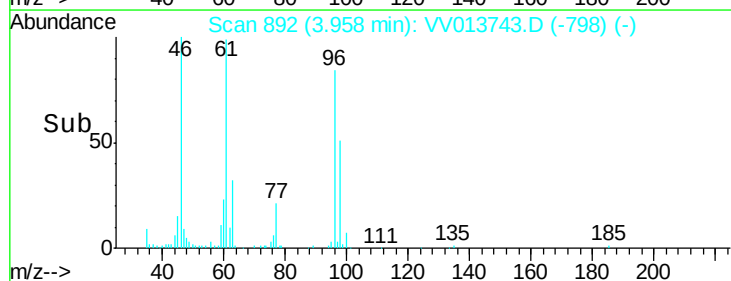
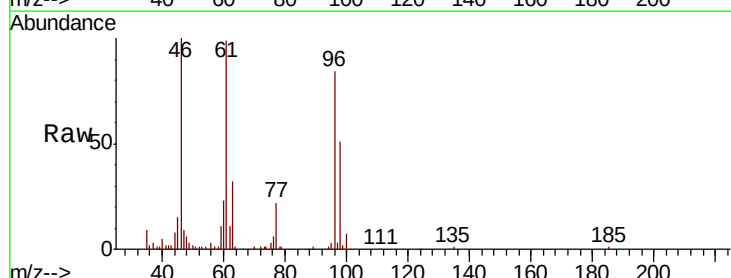
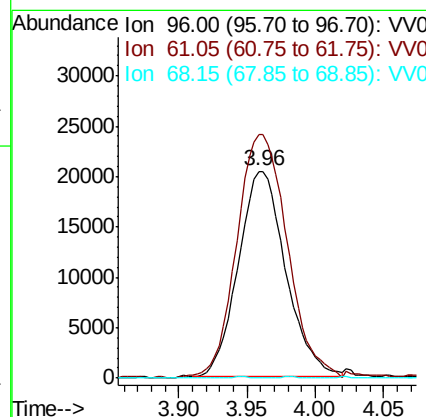
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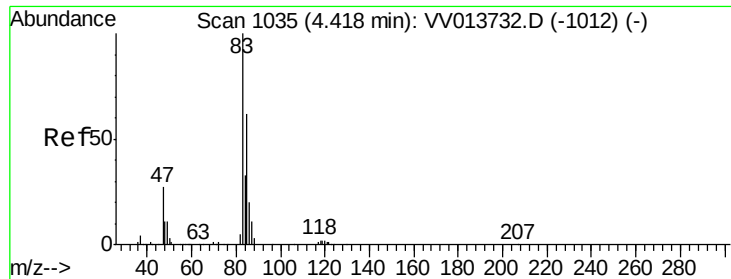
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#22  
 cis-1,2-Dichloroethene  
 Concen: 2.374 ug/L  
 RT: 3.96 min Scan# 892  
 Delta R.T. 0.00 min  
 Lab File: VV013743.D  
 Acq: 22 Nov 2019 18:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 117.9 | 86.1  | 159.9 |
| 68      | 0.0   | 0.0   | 0.0   |





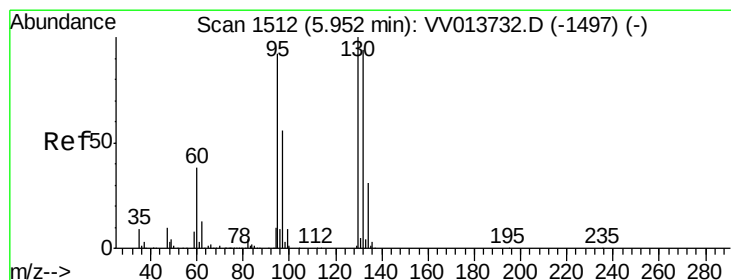
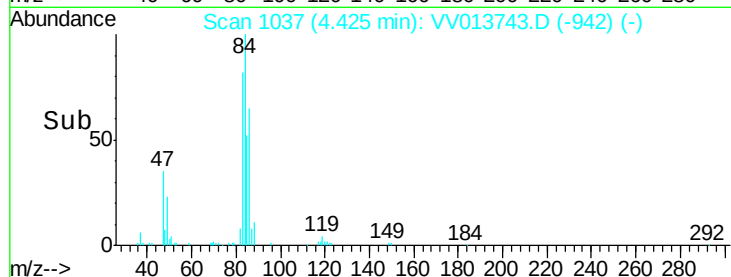
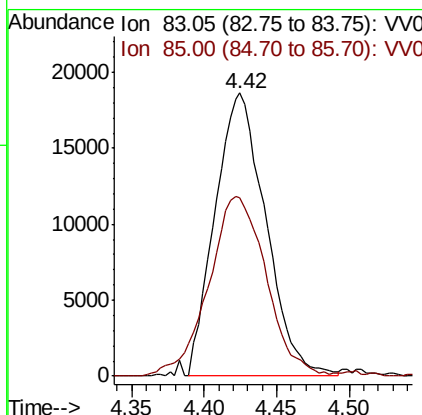
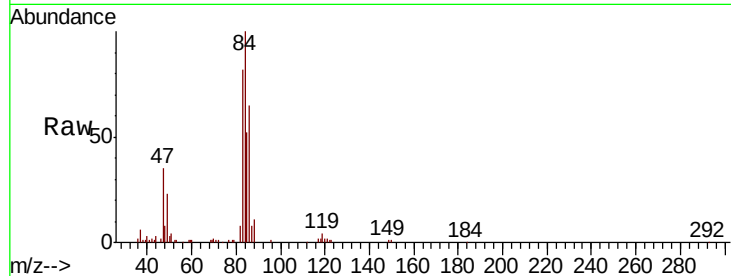
#25  
Chloroform  
Concen: 1.208 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. 0.01 min  
Lab File: VV013743.D  
Acq: 22 Nov 2019 18:59

Instrument :  
MSVOA\_V  
ClientSampleId :  
B0AC5

| Tot Ion   | 83   | Resp  | 45446 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 83        | 100  |       |       |
| 85        | 62.8 | 45.1  | 83.7  |

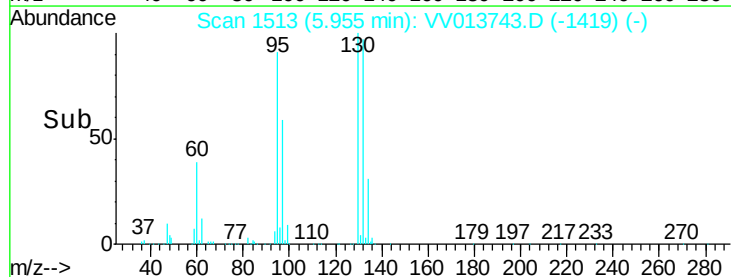
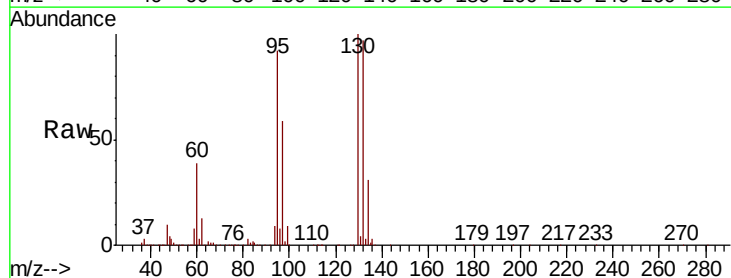
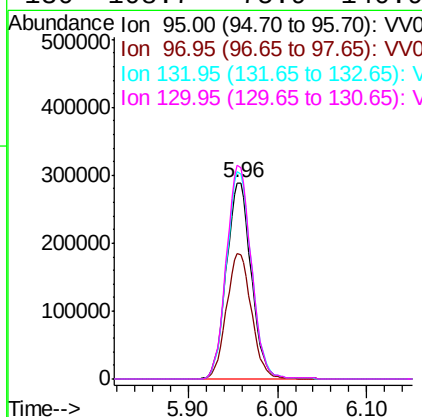
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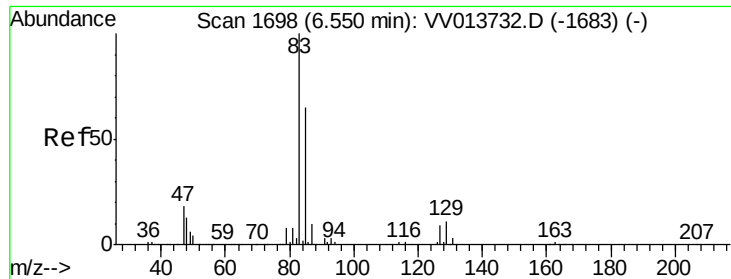
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#34  
Trichloroethene  
Concen: 25.574 ug/L  
RT: 5.96 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VV013743.D  
Acq: 22 Nov 2019 18:59

| Tgt Ion   | 95    | Resp  | 560076 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 95        | 100   |       |        |
| 97        | 63.7  | 45.6  | 84.8   |
| 132       | 105.8 | 70.5  | 130.9  |
| 130       | 108.7 | 75.9  | 140.9  |





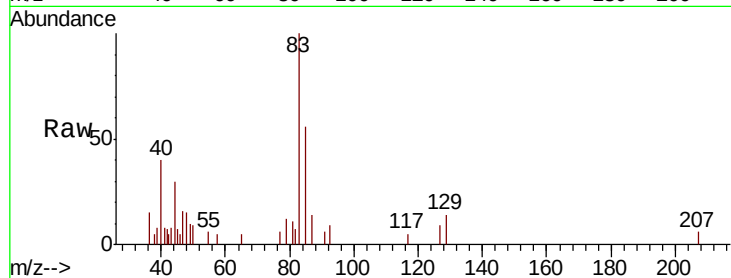
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 Bromodichloromethane  
 Concen: 0.151 ug/L  
 RT: 6.56 min Scan# 1700  
 Delta R.T. 0.01 min  
 Lab File: VV013743.D  
 Acq: 22 Nov 2019 18:59

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 B0AC5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 56.1  | 46.1  | 85.5  |
| 127     | 9.0   | 7.5   | 11.3  |

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Abundance Ion 82.95 (82.65 to 83.65): VV0  
 Ion 85.00 (84.70 to 85.70): VV0  
 Ion 126.90 (126.60 to 127.60): V

