

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U111919\  
 Data File : VU035765.D  
 Acq On : 19 Nov 2019 12:50  
 Operator : JC/SP  
 Sample : K5910-13DL 5X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 20 00:40:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR110419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Nov 20 00:37:27 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 204100   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 226758   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 97268    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 81731    | 3.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 77.80%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 79204    | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 92.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 110194   | 3.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 62.40%  |
| 20) 2-Butanone-d5              | 4.71   | 46    | 239313   | 51.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.18% |
| 24) Chloroform-d               | 5.11   | 84    | 163431   | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 87990    | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 100.00% |
| 32) Benzene-d6                 | 5.77   | 84    | 316107   | 4.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.74   | 67    | 108237   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.80%  |
| 41) Toluene-d8                 | 7.93   | 98    | 256923   | 3.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 76.00%  |
| 43) trans-1,3-Dichloropropene- | 8.22   | 79    | 36822    | 3.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 79.80%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 165347   | 45.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 91.54%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79  | 84    | 94366    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 95727    | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.20%  |

## Target Compounds

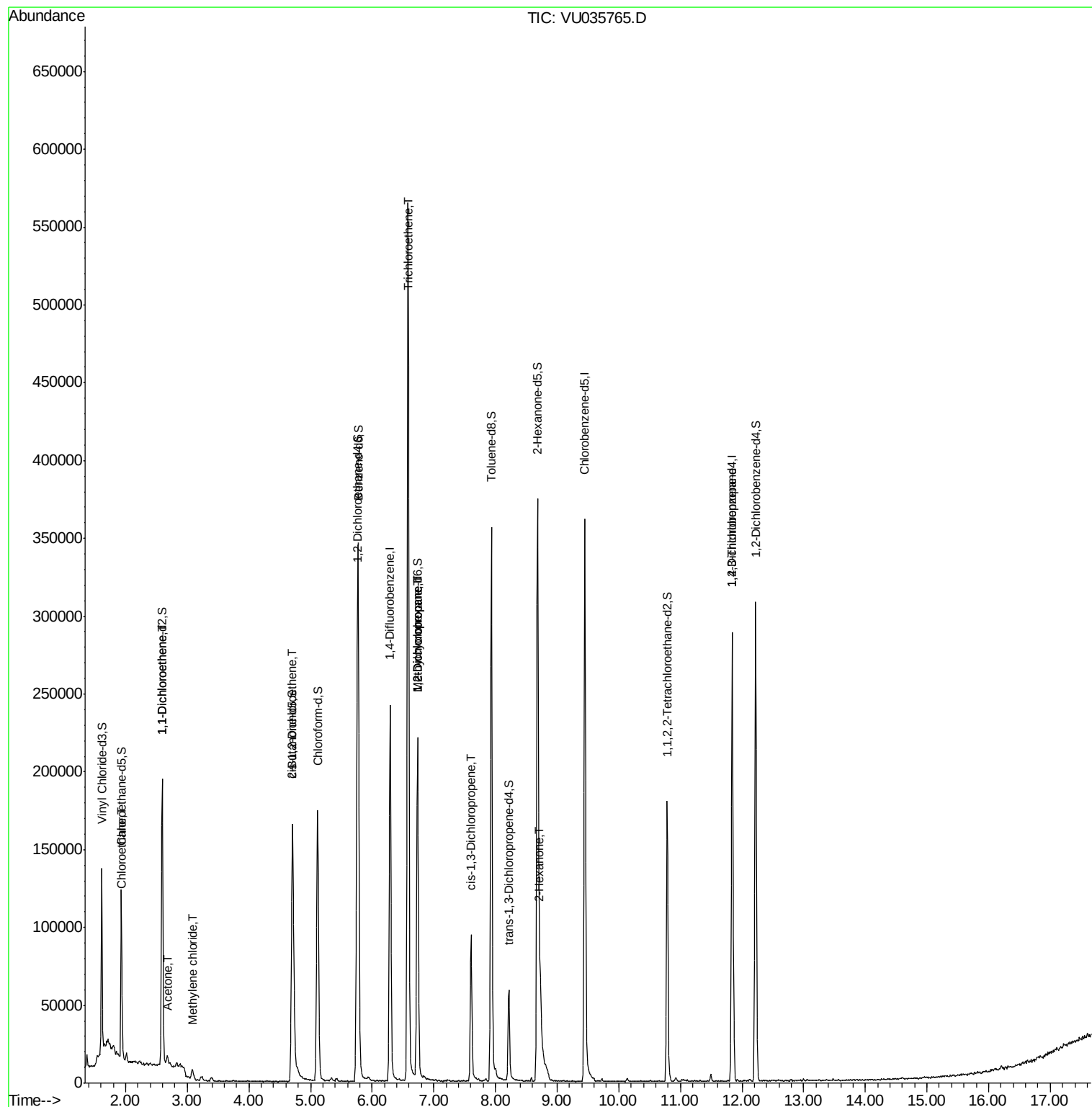
| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 8) Chloroethane             | 1.95  | 64   | 1115     | 0.075 | ug/L # | 53     |
| 12) 1,1-Dichloroethene      | 2.60  | 96   | 1907     | 0.106 | ug/L # | 1      |
| 13) Acetone                 | 2.68  | 43   | 6903     | 2.064 | ug/L   | 94     |
| 16) Methylene chloride      | 3.09  | 84   | 3561     | 0.167 | ug/L # | 82     |
| 22) cis-1,2-Dichloroethene  | 4.72  | 96   | 9553     | 0.468 | ug/L   | 98     |
| 34) Trichloroethene         | 6.58  | 95   | 197187   | 9.655 | ug/L   | 99     |
| 35) Methylcyclohexane       | 6.74  | 83   | 25431    | 0.817 | ug/L # | 18     |
| 37) 1,2-Dichloropropane     | 6.73  | 63   | 11272    | 0.536 | ug/L # | 87     |
| 39) cis-1,3-Dichloropropene | 7.61  | 75   | 2497     | 0.083 | ug/L # | 58     |
| 48) 2-Hexanone              | 8.73  | 43   | 13792    | 1.605 | ug/L # | 87     |
| 59) 1,2,3-Trichloropropane  | 11.84 | 75   | 10226    | 0.735 | ug/L   | 93     |

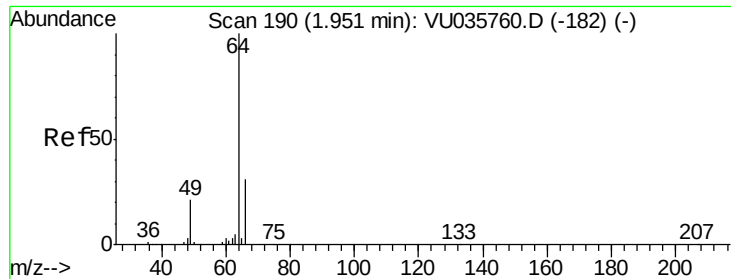
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : K5910-13DL 5X  
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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Nov 20 00:40:31 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR110419WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Nov 20 00:37:27 2019  
Response via : Initial Calibration

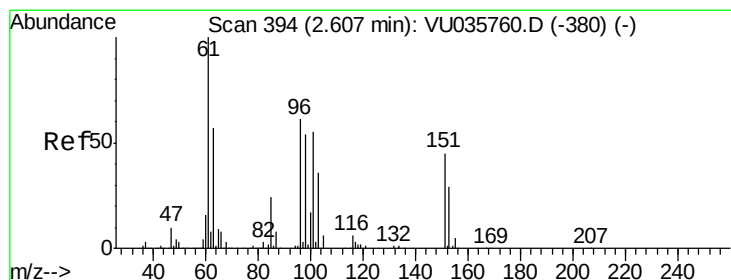
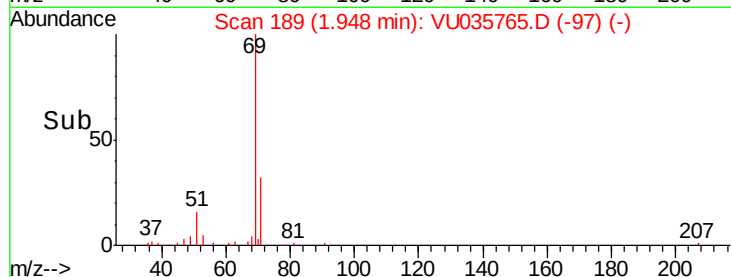
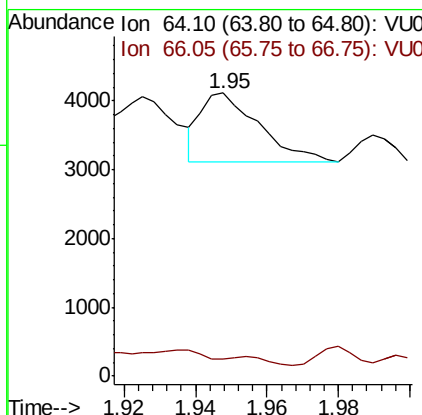
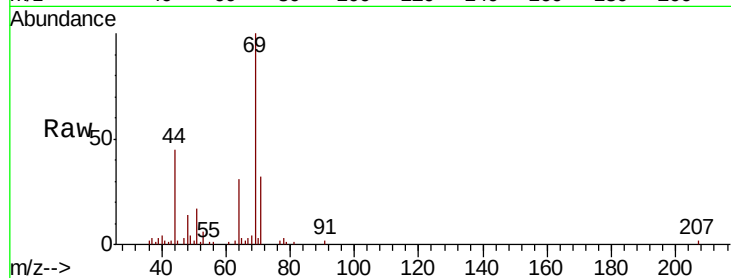




#8  
Chloroethane  
Concen: 0.075 ug/L  
RT: 1.95 min Scan# 189  
Delta R.T. -0.00 min  
Lab File: VU035765.D  
Acq: 19 Nov 2019 12:50

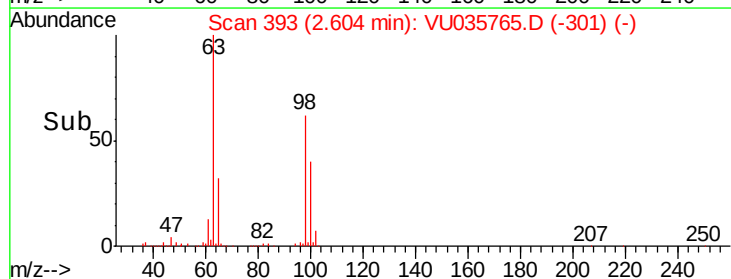
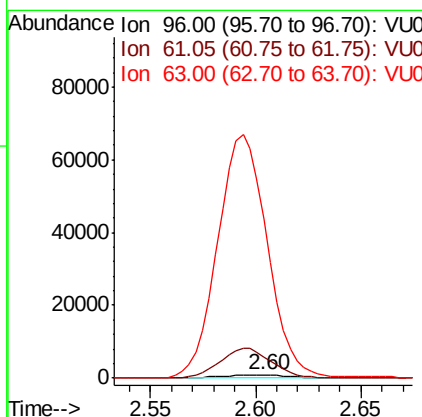
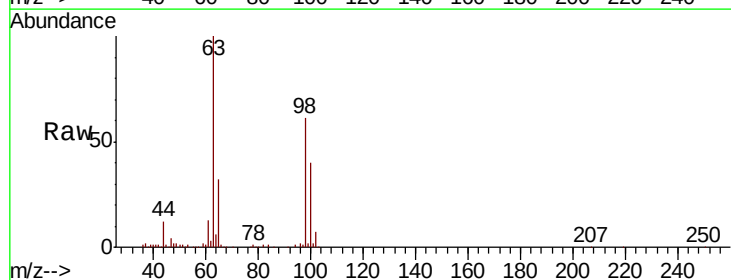
Instrument :  
MSVOA\_U  
ClientSampleId :

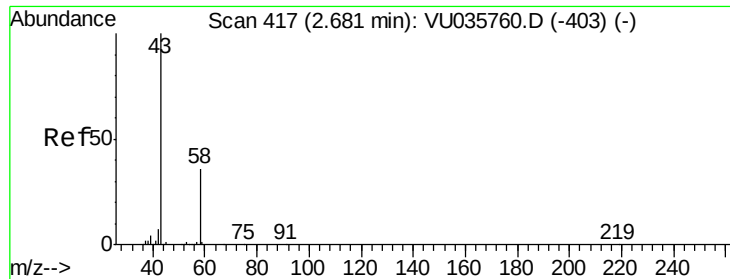
Tot Ion: 64 Resp: 1115  
Ion Ratio Lower Upper  
64 100  
66 5.9 22.5 41.7#



#12  
1,1-Dichloroethene  
Concen: 0.106 ug/L  
RT: 2.60 min Scan# 393  
Delta R.T. -0.00 min  
Lab File: VU035765.D  
Acq: 19 Nov 2019 12:50

Tgt Ion: 96 Resp: 1907  
Ion Ratio Lower Upper  
96 100  
61 627.1 123.1 228.5#  
63 4677.5 87.8 163.0#





#13

Acetone

Concen: 2.064 ug/L

RT: 2.68 min Scan# 416

Delta R.T. -0.00 min

Lab File: VU035765.D

Acq: 19 Nov 2019 12:50

Instrument :

MSVOA\_U

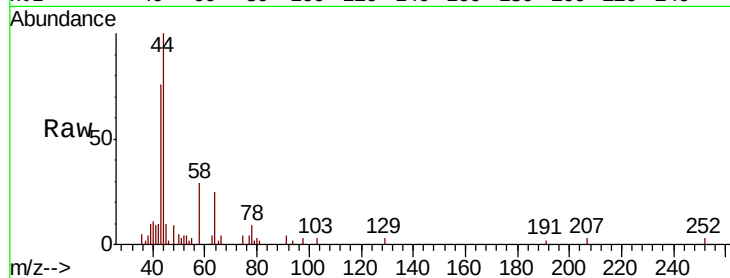
ClientSampleId :

Tot Ion: 43 Resp: 6903

Ion Ratio Lower Upper

43 100

58 38.6 0.0 69.8

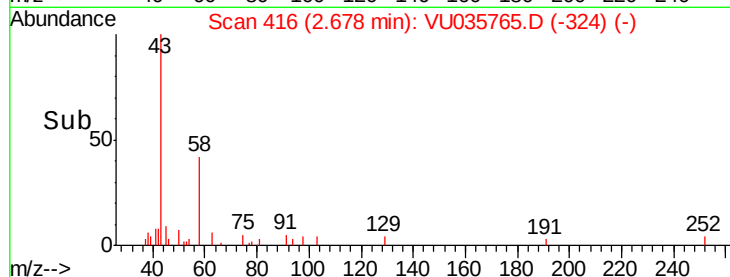


Abundance Ion 43.05 (42.75 to 43.75): VU035765.D (-324) (-)

Ion 58.05 (57.75 to 58.75): VU035765.D (-324) (-)

2.68

Time-->



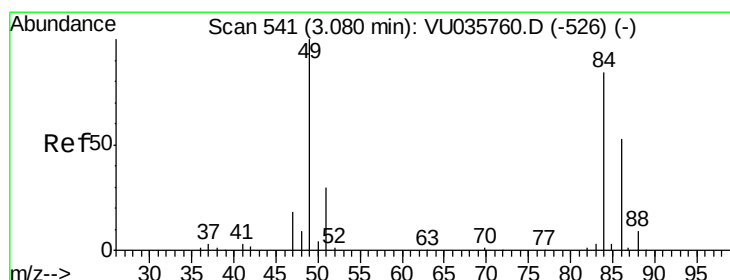
Abundance

Ion 43.05 (42.75 to 43.75): VU035765.D (-324) (-)

Ion 58.05 (57.75 to 58.75): VU035765.D (-324) (-)

2.68

Time-->



#16

Methylene chloride

Concen: 0.167 ug/L

RT: 3.09 min Scan# 543

Delta R.T. 0.01 min

Lab File: VU035765.D

Acq: 19 Nov 2019 12:50

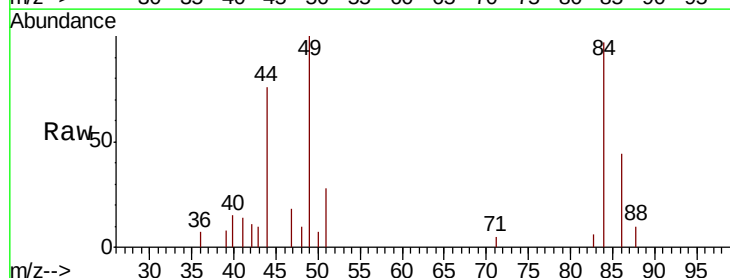
Tgt Ion: 84 Resp: 3561

Ion Ratio Lower Upper

84 100

86 44.9 45.8 85.2#

49 102.8 81.9 152.1



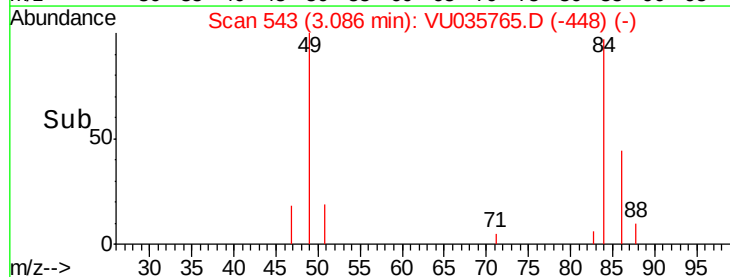
Abundance Ion 84.05 (83.75 to 84.75): VU035765.D (-448) (-)

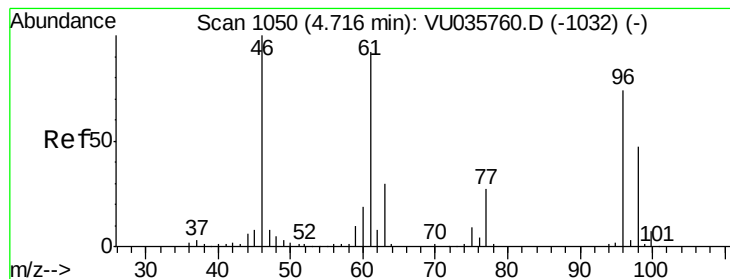
Ion 86.00 (85.70 to 86.70): VU035765.D (-448) (-)

Ion 49.10 (48.80 to 49.80): VU035765.D (-448) (-)

3.09

Time-->





#22

cis-1,2-Dichloroethene

Concen: 0.468 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

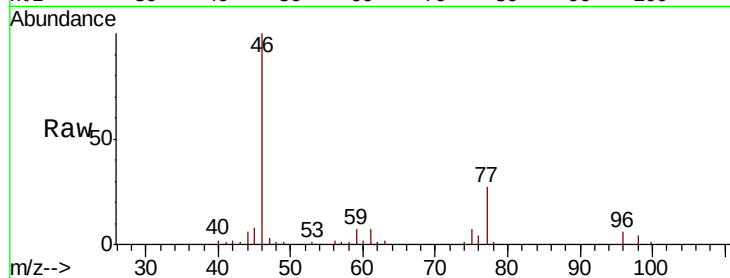
Lab File: VU035765.D

Acq: 19 Nov 2019 12:50

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 96 Resp: 9553

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 121.6 | 87.0  | 161.6 |
| 68  | 0.0   | 0.0   | 0.0   |

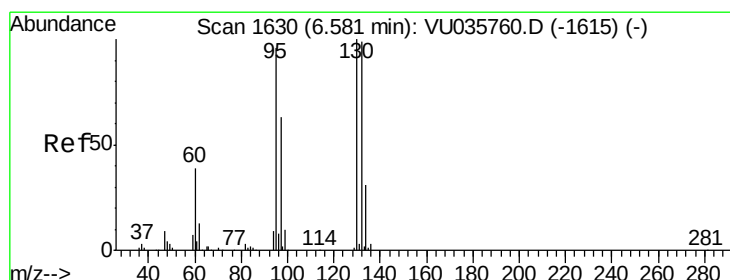
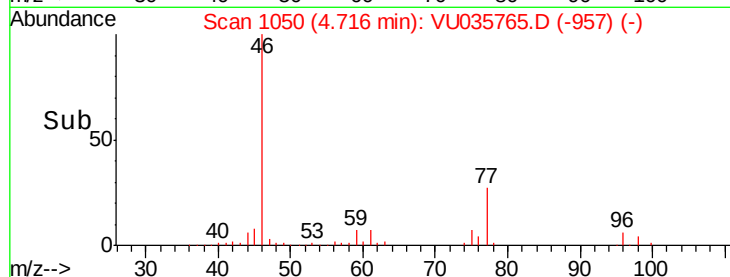
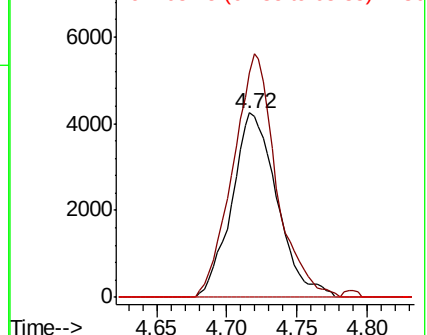


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#34

Trichloroethene

Concen: 9.655 ug/L

RT: 6.58 min Scan# 1630

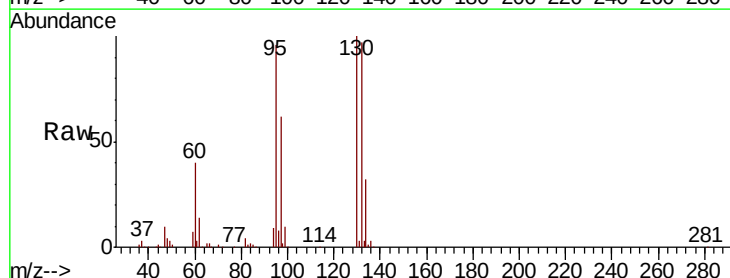
Delta R.T. -0.00 min

Lab File: VU035765.D

Acq: 19 Nov 2019 12:50

Tgt Ion: 95 Resp: 197187

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.5  | 44.5  | 82.7  |
| 132 | 100.6 | 69.9  | 129.7 |
| 130 | 103.9 | 74.1  | 137.7 |



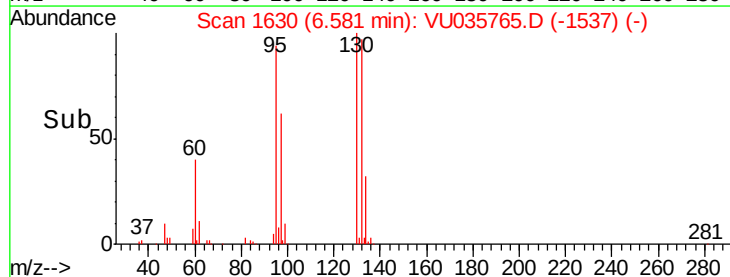
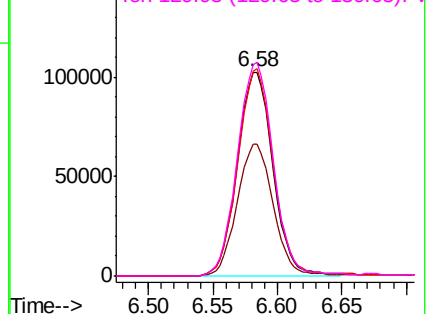
Abundance

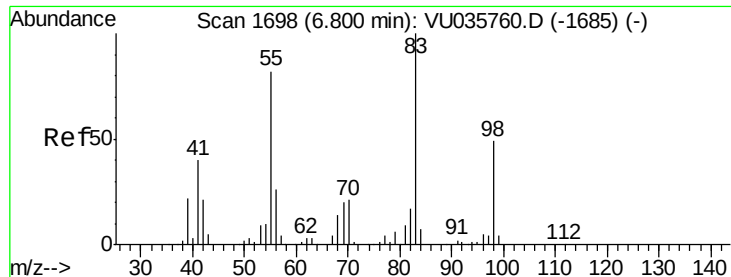
Ion 95.00 (94.70 to 95.70): VU0

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

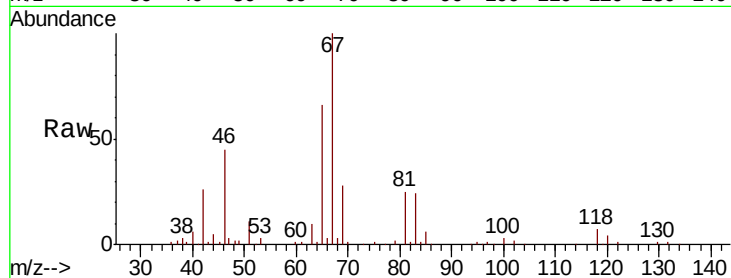




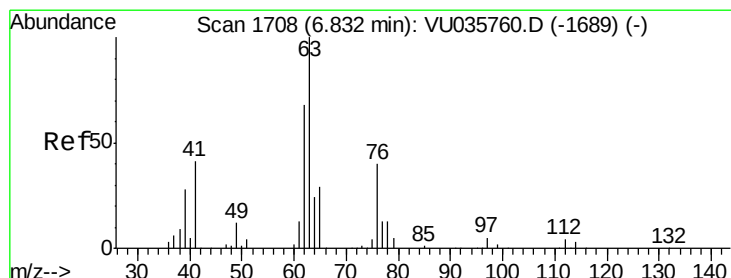
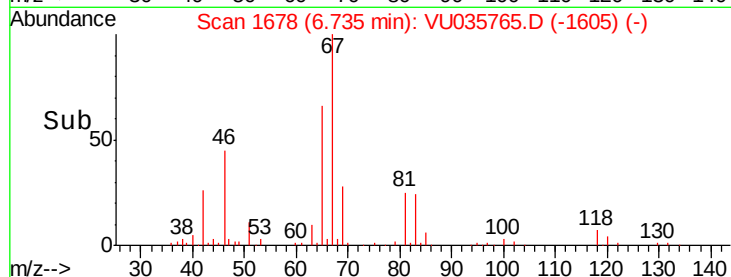
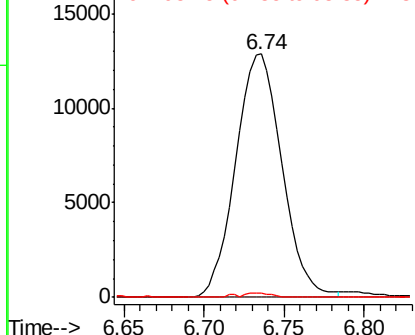
#35  
Methvlcvclohexane  
Concen: 0.817 ug/L  
RT: 6.74 min Scan# 1678  
Delta R.T. -0.06 min  
Lab File: VU035765.D  
Acq: 19 Nov 2019 12:50

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 83 Resp: 25431  
Ion Ratio Lower Upper  
83 100  
55 0.0 62.6 93.8#  
98 1.0 37.2 55.8#

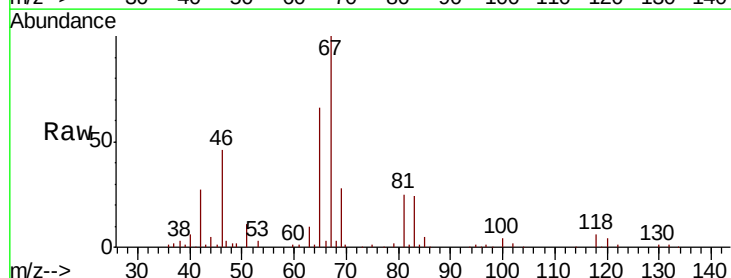


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

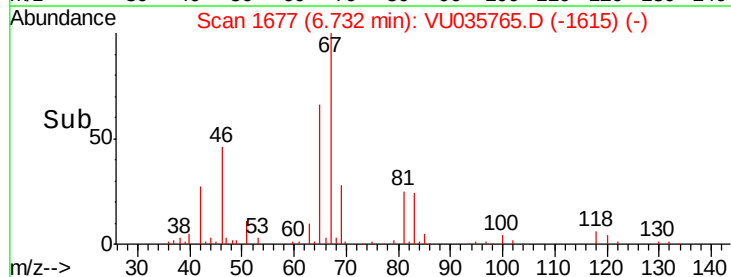
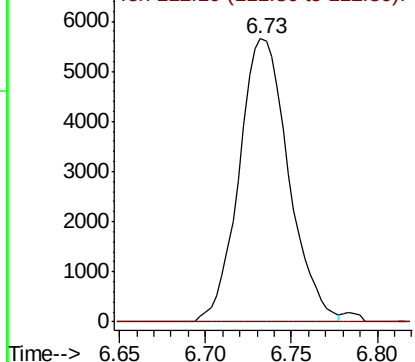


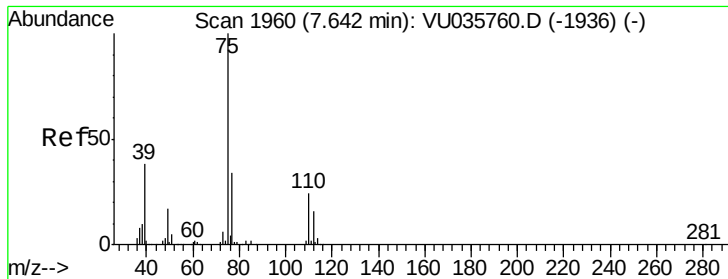
#37  
1,2-Dichloropropane  
Concen: 0.536 ug/L  
RT: 6.73 min Scan# 1677  
Delta R.T. -0.10 min  
Lab File: VU035765.D  
Acq: 19 Nov 2019 12:50

Tgt Ion: 63 Resp: 11272  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.4 5.2#



Abundance Ion 63.10 (62.80 to 63.80): VU0  
Ion 112.10 (111.80 to 112.80): V



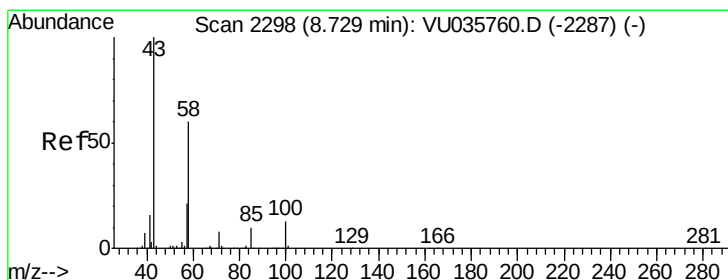
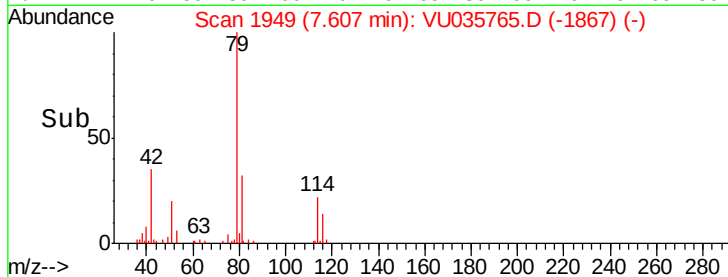
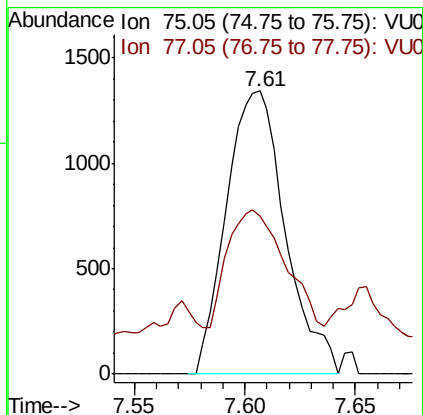
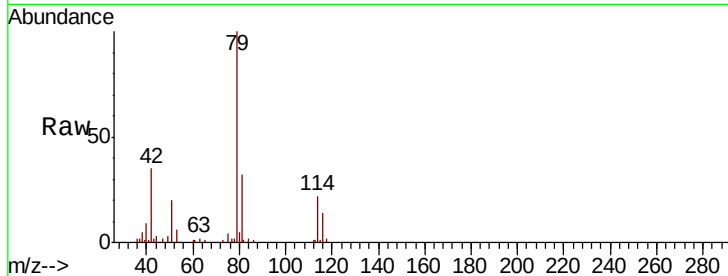


#39

cis-1,3-Dichloropropene  
 Concen: 0.083 ug/L  
 RT: 7.61 min Scan# 1949  
 Delta R.T. -0.04 min  
 Lab File: VU035765.D  
 Acq: 19 Nov 2019 12:50

Instrument :  
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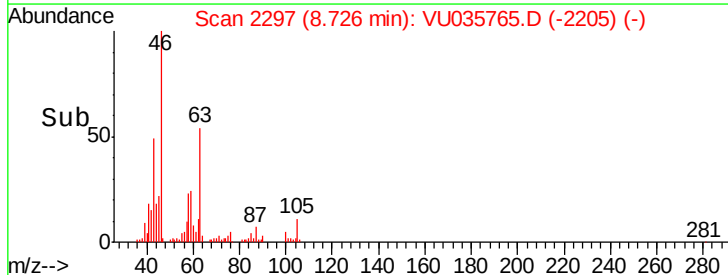
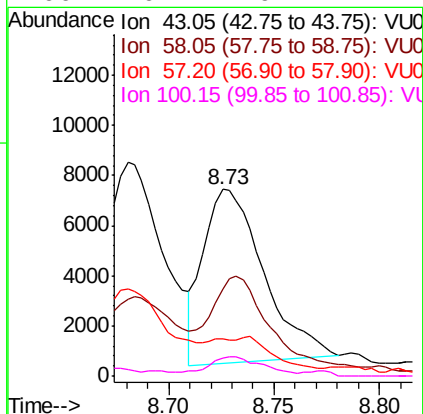
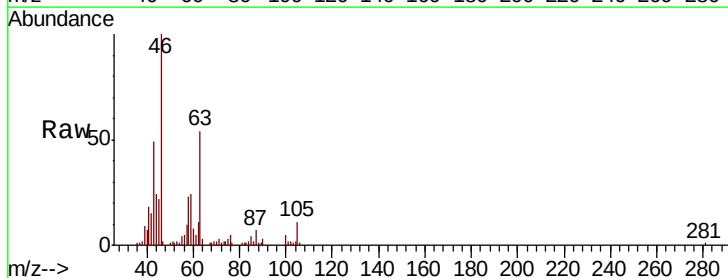
Tot Ion: 75 Resp: 2497  
 Ion Ratio Lower Upper  
 75 100  
 77 55.7 22.5 41.7#

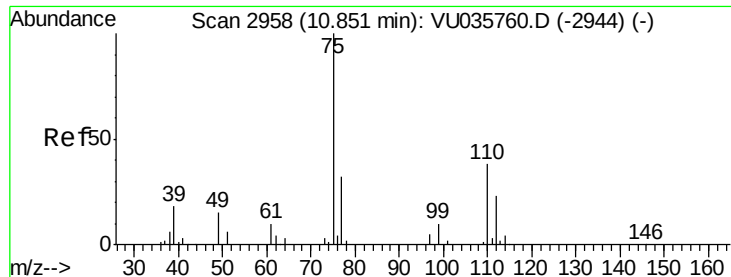


#48

2-Hexanone  
 Concen: 1.605 ug/L  
 RT: 8.73 min Scan# 2297  
 Delta R.T. -0.00 min  
 Lab File: VU035765.D  
 Acq: 19 Nov 2019 12:50

Tgt Ion: 43 Resp: 13792  
 Ion Ratio Lower Upper  
 43 100  
 58 58.3 44.1 66.1  
 57 0.0 15.1 22.7#  
 100 10.2 9.4 14.2





#59

1,2,3-Trichloropropane

Concen: 0.735 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU035765.D

Acq: 19 Nov 2019 12:50

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 75 Resp: 10226

Ion Ratio Lower Upper

75 100

77 37.6 26.8 40.2

