

Data File : VU036900.D  
Acq On : 25 Feb 2020 12:02  
Operator : JC/MD  
Sample : L1608-08  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0AR2

Quant Time: Feb 26 01:30:59 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Feb 26 01:28:52 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 198701   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 188369   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 71271    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 108505   | 65.03    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 130.06%  |
| 7) Chloroethane-d5             | 1.93    | 69    | 98996    | 71.70    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 143.40%# |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 144895   | 51.85    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 103.70%  |
| 21) 2-Butanone-d5              | 4.67    | 46    | 174870   | 156.23   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 156.23%# |
| 24) Chloroform-d               | 5.11    | 84    | 180774   | 70.94    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 141.88%# |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 124870   | 72.41    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 144.82%# |
| 32) Benzene-d6                 | 5.76    | 84    | 395513   | 72.61    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 145.22%# |
| 36) 1,2-Dichloropropane-d6     | 6.73    | 67    | 129267   | 73.25    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 146.50%# |
| 41) Toluene-d8                 | 7.93    | 98    | 360061   | 71.25    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 142.50%# |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 56295    | 68.64    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 137.28%# |
| 47) 2-Hexanone-d5              | 8.66    | 63    | 133283   | 154.46   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 154.46%# |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77   | 84    | 177475   | 71.33    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 142.66%# |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 106268   | 76.27    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 152.54%# |

#### Target Compounds

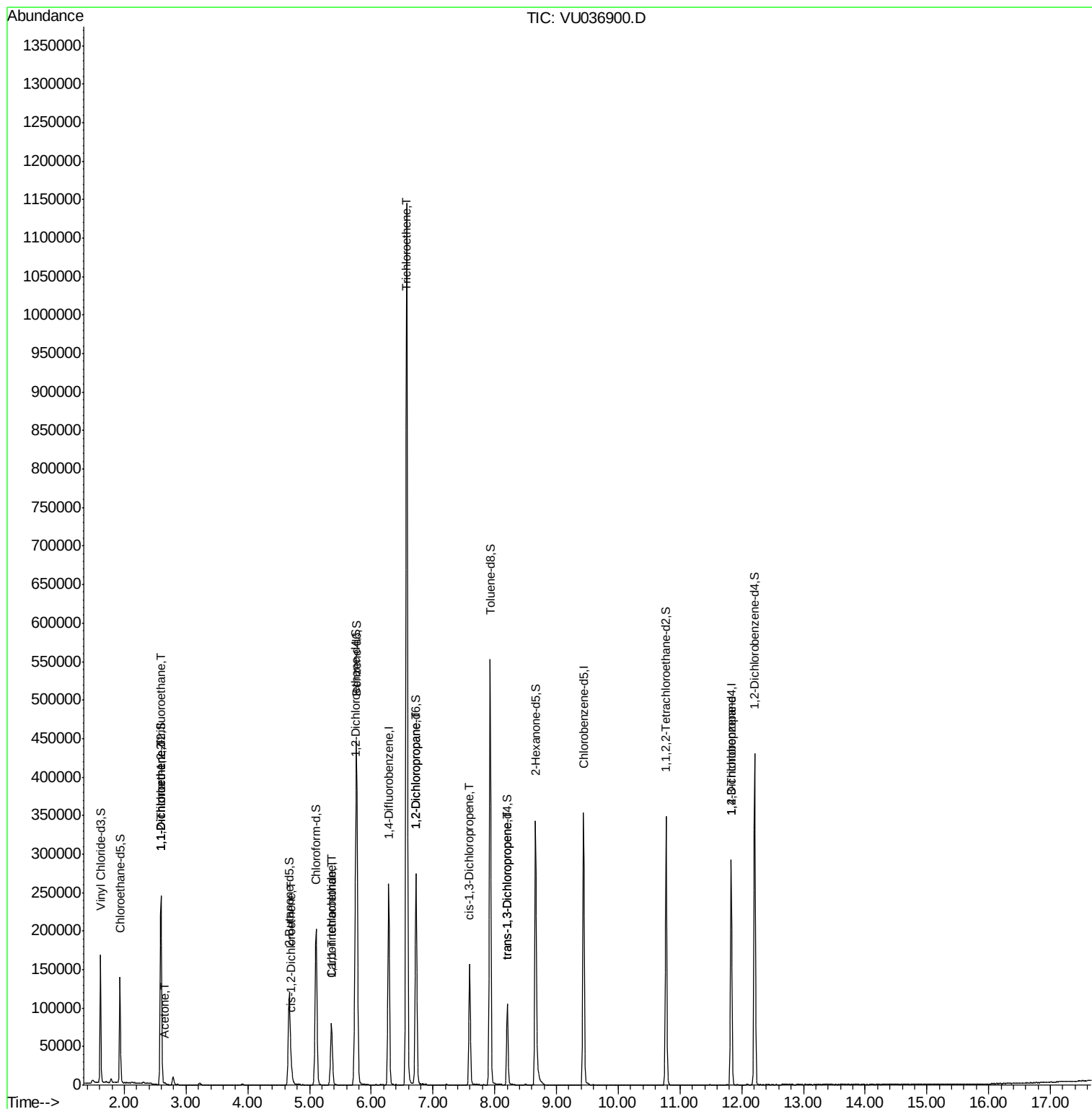
|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60  | 101 | 2153   | 1.697 ug/L # | 59     |
| 12) 1,1-Dichloroethene         | 2.60  | 96  | 2835   | 2.209 ug/L # | 1      |
| 13) Acetone                    | 2.66  | 43  | 3229   | 2.805 ug/L   | 96     |
| 20) cis-1,2-Dichloroethene     | 4.71  | 96  | 7137   | 4.630 ug/L   | 94     |
| 30) 1,1,1-Trichloroethane      | 5.36  | 97  | 54620  | 27.045 ug/L  | 99     |
| 31) Carbon tetrachloride       | 5.36  | 117 | 7161   | 4.524 ug/L   | 99     |
| 34) Trichloroethene            | 6.57  | 95  | 391052 | 267.363 ug/L | 98     |
| 37) 1,2-Dichloropropane        | 6.73  | 63  | 14333  | 8.945 ug/L # | 88     |
| 39) cis-1,3-Dichloropropene    | 7.59  | 75  | 3597   | 1.457 ug/L # | 56     |
| 44) trans-1,3-Dichloropropene  | 8.21  | 75  | 2415   | 1.128 ug/L # | 68     |
| 59) 1,2,3-Trichloropropane     | 11.83 | 75  | 10857  | 5.267 ug/L   | 93     |

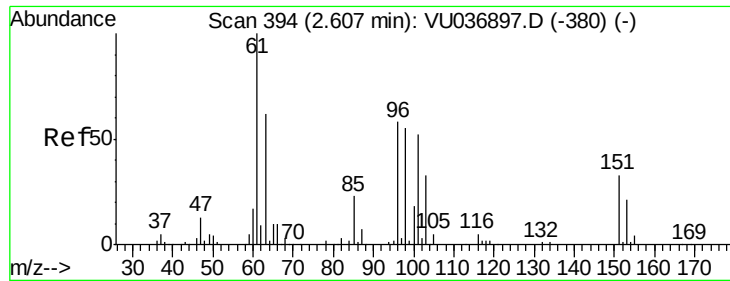
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Feb 26 01:28:52 2020  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.697 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.01 min

Lab File: VU036900.D

Acq: 25 Feb 2020 12:02

Instrument :

MSVOA\_U

ClientSampled :

C0AR2

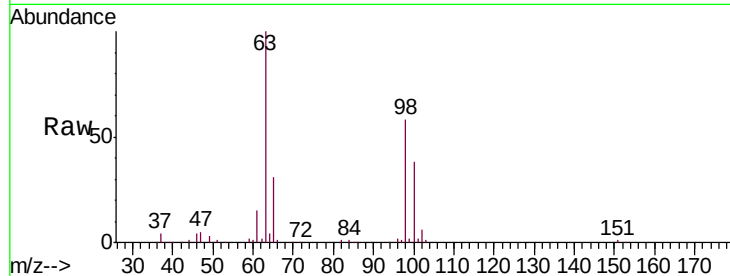
Tgt Ion: 101 Resp: 2153

Ion Ratio Lower Upper

101 100

85 19.9 36.4 54.6#

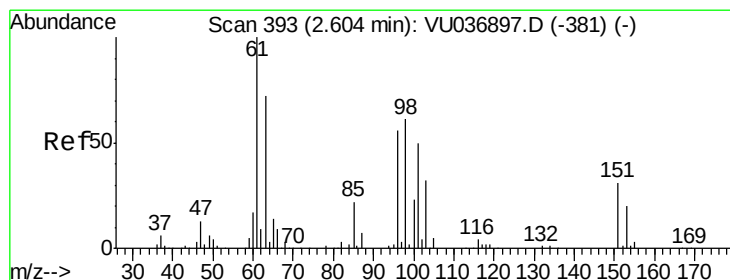
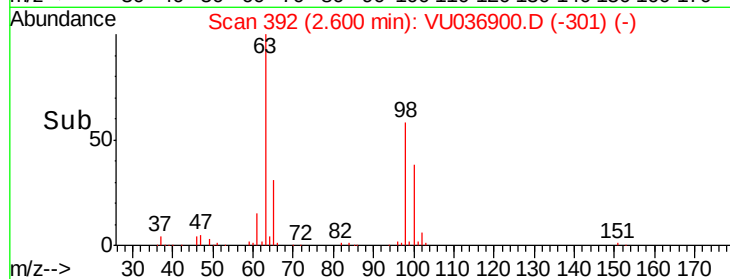
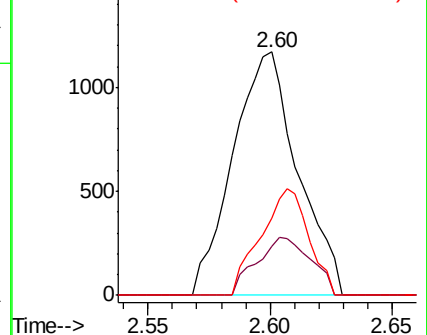
151 32.5 52.4 78.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.209 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.00 min

Lab File: VU036900.D

Acq: 25 Feb 2020 12:02

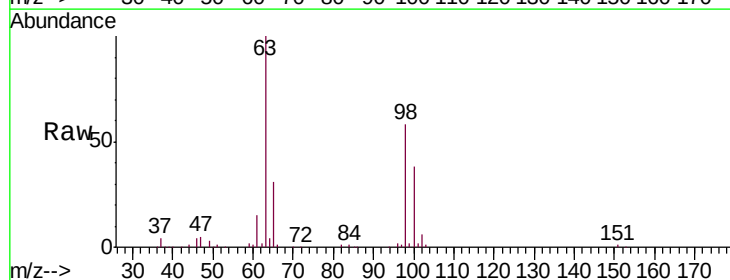
Tgt Ion: 96 Resp: 2835

Ion Ratio Lower Upper

96 100

61 626.3 127.5 236.7#

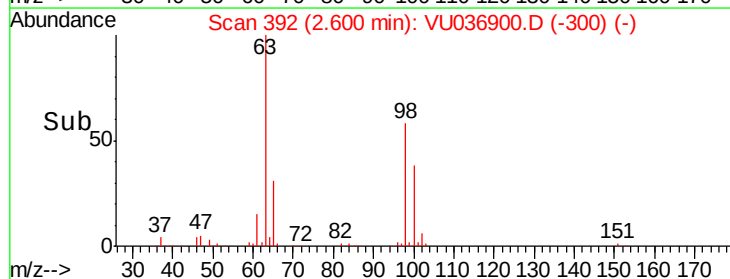
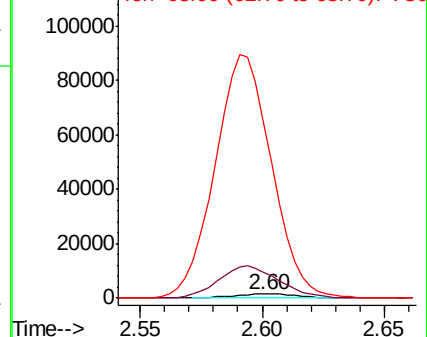
63 4242.3 101.4 188.2#

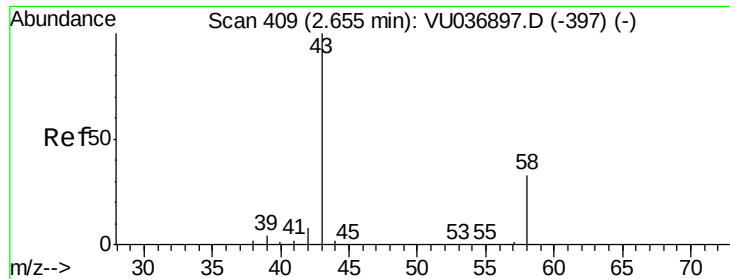


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 2.805 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU036900.D

Acq: 25 Feb 2020 12:02

Instrument :

MSVOA\_U

ClientSampled :

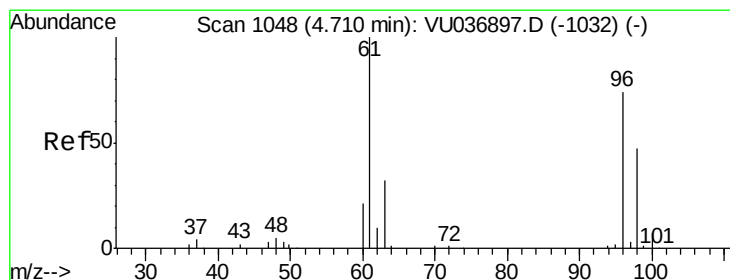
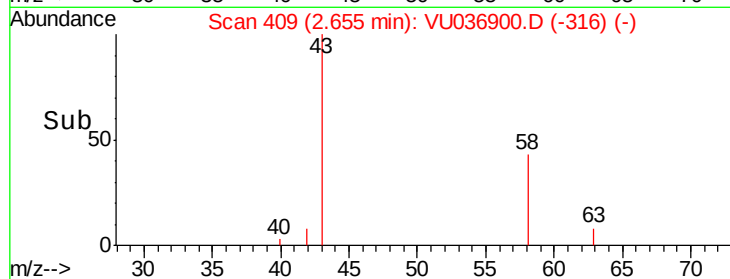
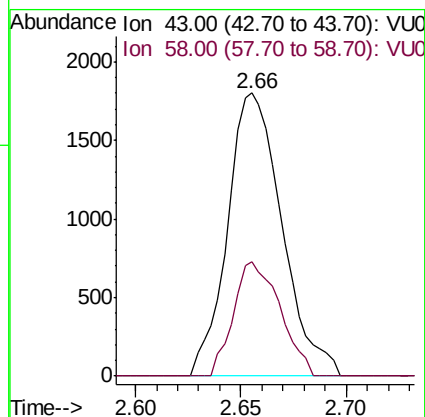
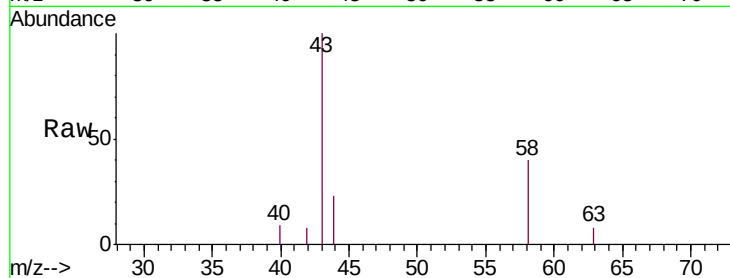
C0AR2

Tgt Ion: 43 Resp: 3229

Ion Ratio Lower Upper

43 100

58 34.5 0.0 64.6



#20

cis-1,2-Dichloroethene

Concen: 4.630 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU036900.D

Acq: 25 Feb 2020 12:02

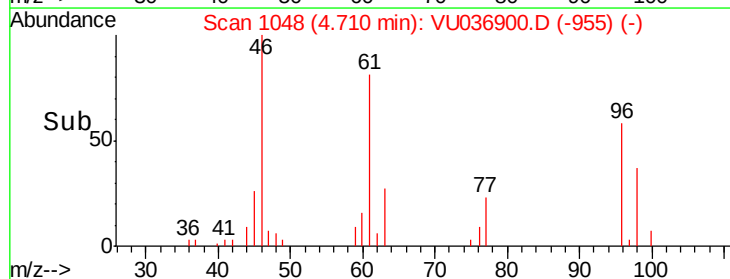
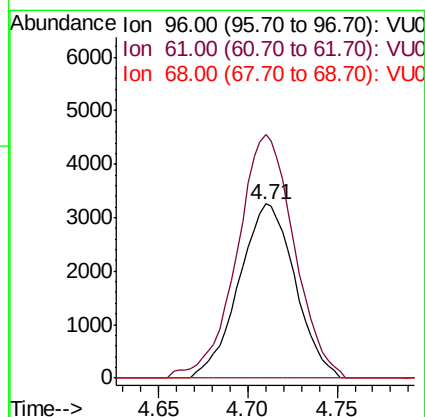
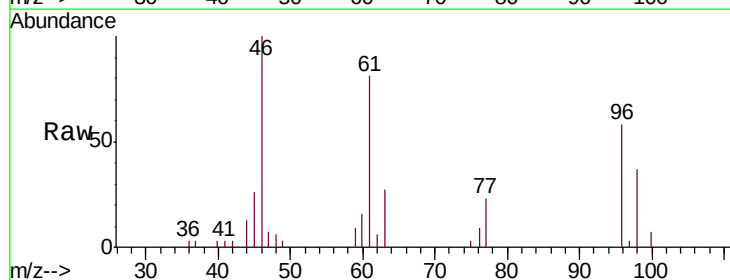
Tgt Ion: 96 Resp: 7137

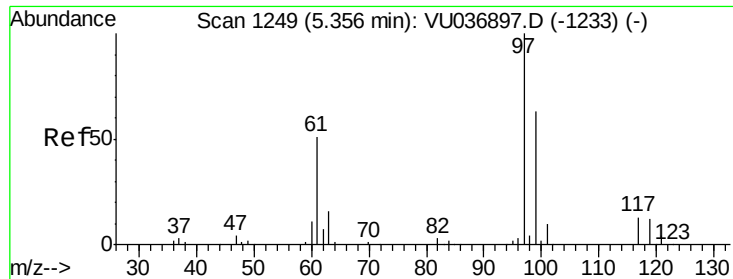
Ion Ratio Lower Upper

96 100

61 140.0 93.1 172.9

68 0.0 0.0 0.0

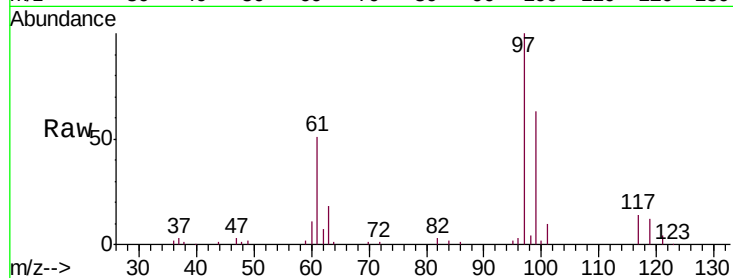




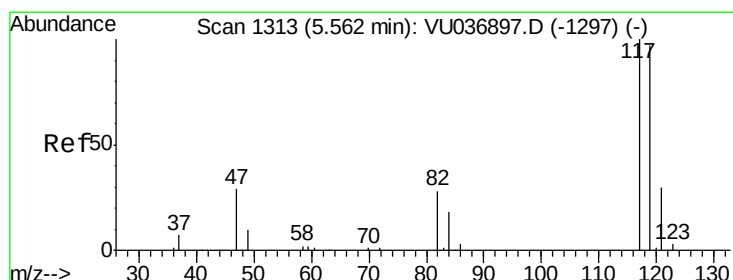
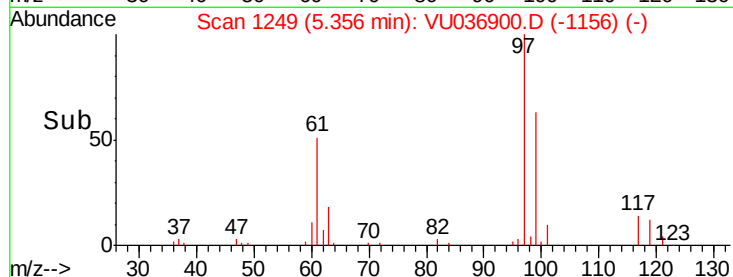
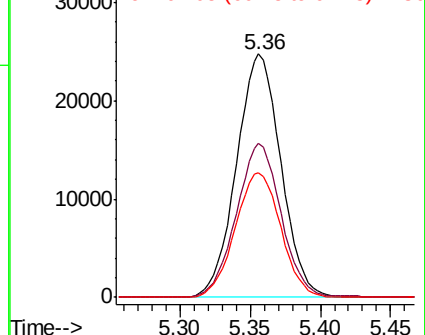
#30  
 1,1,1-Trichloroethane  
 Concen: 27.045 ug/L  
 RT: 5.36 min Scan# 1249  
 Delta R.T. 0.00 min  
 Lab File: VU036900.D  
 Acq: 25 Feb 2020 12:02

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0AR2

Tgt Ion: 97 Resp: 54620  
 Ion Ratio Lower Upper  
 97 100  
 99 63.4 50.4 75.6  
 61 52.2 40.3 60.5

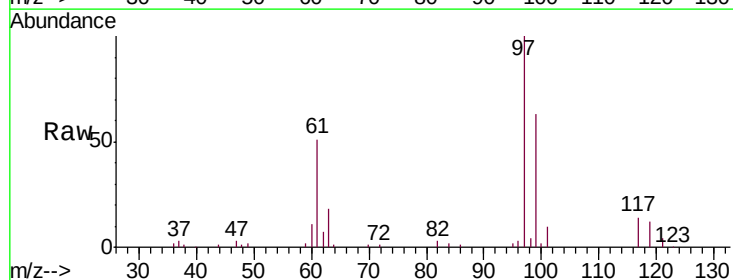


Abundance Ion 97.00 (96.70 to 97.70): VU0  
 Ion 99.00 (98.70 to 99.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0

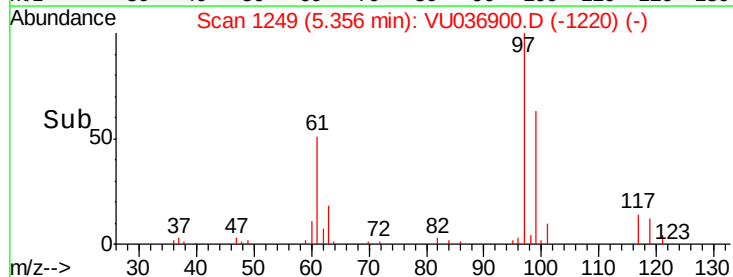
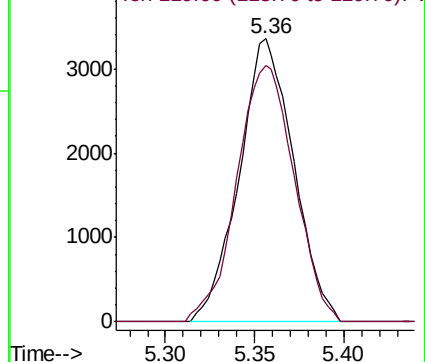


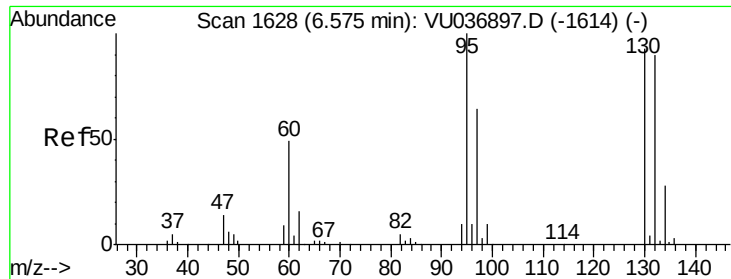
#31  
 Carbon tetrachloride  
 Concen: 4.524 ug/L  
 RT: 5.36 min Scan# 1249  
 Delta R.T. -0.21 min  
 Lab File: VU036900.D  
 Acq: 25 Feb 2020 12:02

Tgt Ion: 117 Resp: 7161  
 Ion Ratio Lower Upper  
 117 100  
 119 95.3 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V  
 Ion 119.00 (118.70 to 119.70): V





#34

Trichloroethene

Concen: 267.363 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU036900.D

Acq: 25 Feb 2020 12:02

Instrument :

MSVOA\_U

ClientSampleId :

C0AR2

Tgt Ion: 95 Resp: 391052

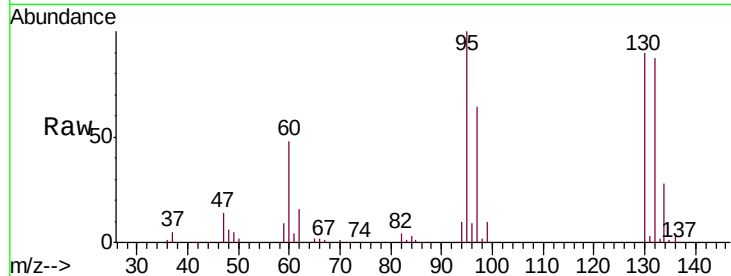
Ion Ratio Lower Upper

95 100

97 63.6 44.1 81.9

132 87.3 60.6 112.6

130 90.1 64.9 120.5

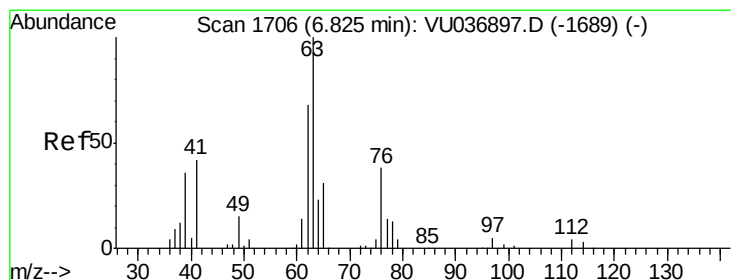
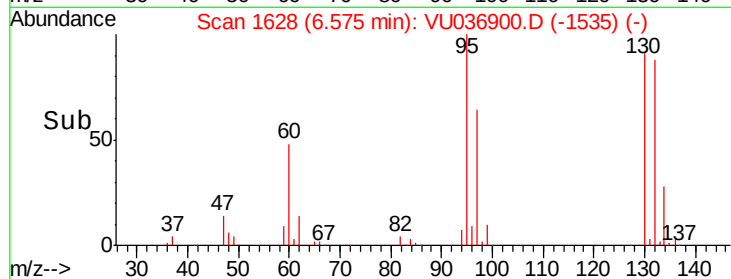
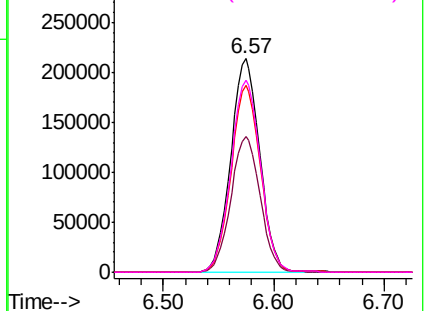


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#37

1,2-Dichloropropane

Concen: 8.945 ug/L

RT: 6.73 min Scan# 1675

Delta R.T. -0.10 min

Lab File: VU036900.D

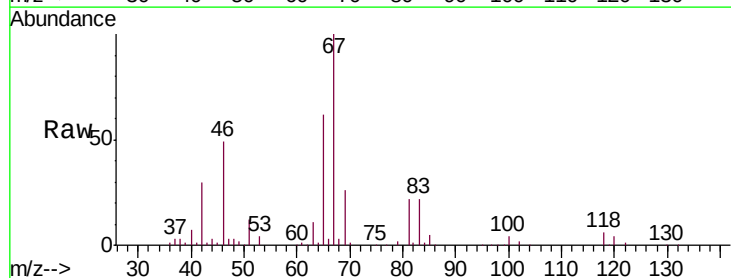
Acq: 25 Feb 2020 12:02

Tgt Ion: 63 Resp: 14333

Ion Ratio Lower Upper

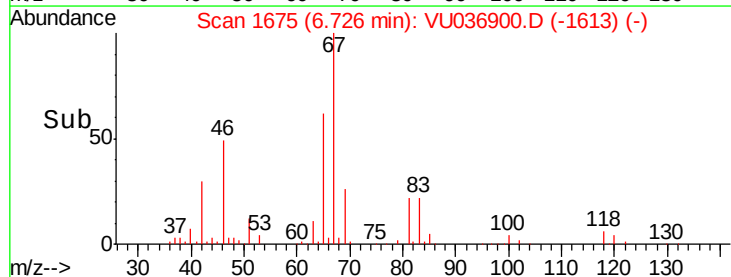
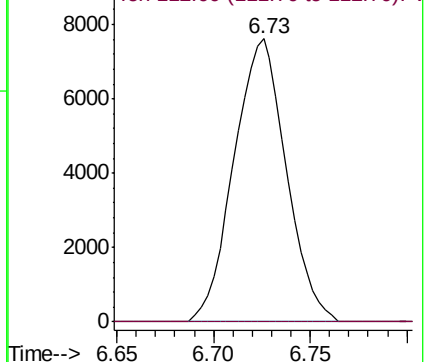
63 100

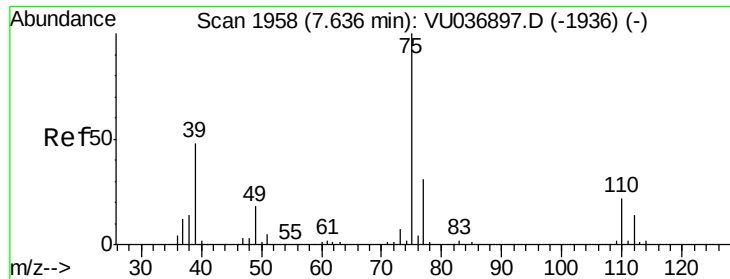
112 0.0 3.0 4.6#



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V



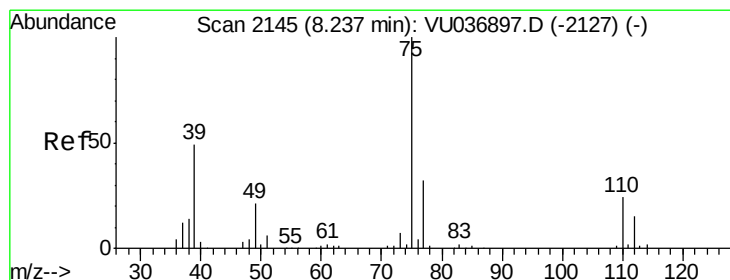
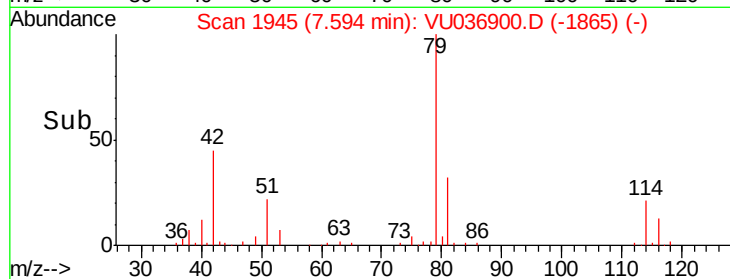
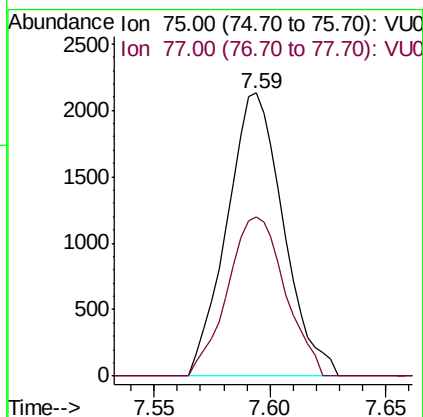
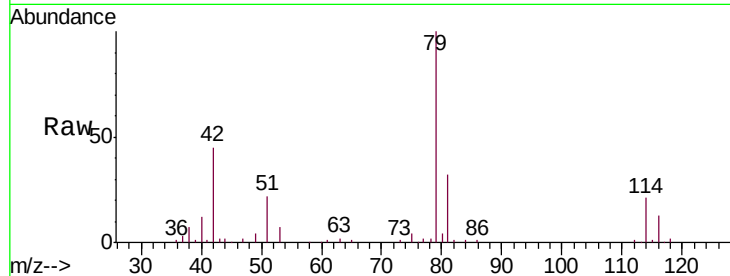


#39

cis-1,3-Dichloropropene  
Concen: 1.457 ug/L  
RT: 7.59 min Scan# 1945  
Delta R.T. -0.04 min  
Lab File: VU036900.D  
Acq: 25 Feb 2020 12:02

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0AR2

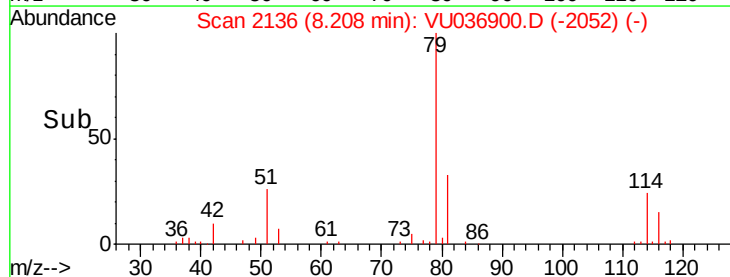
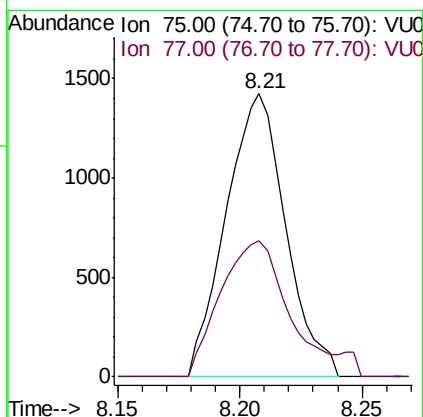
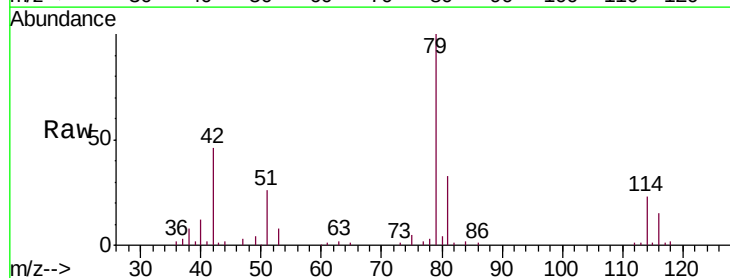
Tgt Ion: 75 Resp: 3597  
Ion Ratio Lower Upper  
75 100  
77 56.0 22.0 41.0#

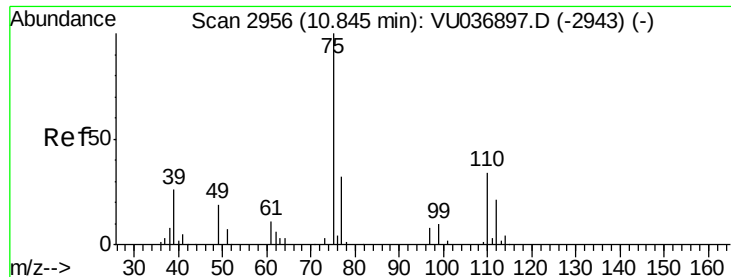


#44

trans-1,3-Dichloropropene  
Concen: 1.128 ug/L  
RT: 8.21 min Scan# 2136  
Delta R.T. -0.03 min  
Lab File: VU036900.D  
Acq: 25 Feb 2020 12:02

Tgt Ion: 75 Resp: 2415  
Ion Ratio Lower Upper  
75 100  
77 48.2 21.6 40.2#





#59

1,2,3-Trichloropropane

Concen: 5.267 ug/L

RT: 11.83 min Scan# 3262

Delta R.T. 0.98 min

Lab File: VU036900.D

Acq: 25 Feb 2020 12:02

Instrument :

MSVOA\_U

ClientSampleId :

C0AR2

Tgt Ion: 75 Resp: 10857

Ion Ratio Lower Upper

75 100

77 36.8 26.2 39.2

