

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102020\  
 Data File : VV019021.D  
 Acq On : 20 Oct 2020 17:57  
 Operator : SY/MD  
 Sample : L4430-02  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AB1

Quant Time: Oct 21 07:41:56 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 21 06:02:04 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 287790   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 287952   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 137910   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 78679    | 33.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 66.42%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 76374    | 40.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 81.38%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 139645   | 31.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 62.46%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 158151   | 95.78    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.78%  |
| 24) Chloroform-d               | 4.38    | 84    | 177447   | 41.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.38%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 126458   | 44.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.52%  |
| 32) Benzene-d6                 | 5.07    | 84    | 333084   | 39.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 79.24%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 113236   | 42.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 84.26%  |
| 41) Toluene-d8                 | 7.34    | 98    | 286315   | 37.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 75.94%# |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 50165    | 38.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 76.36%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 87031    | 87.17    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 87.17%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 142214   | 45.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 90.30%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 128867   | 45.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.86%  |

## Target Compounds

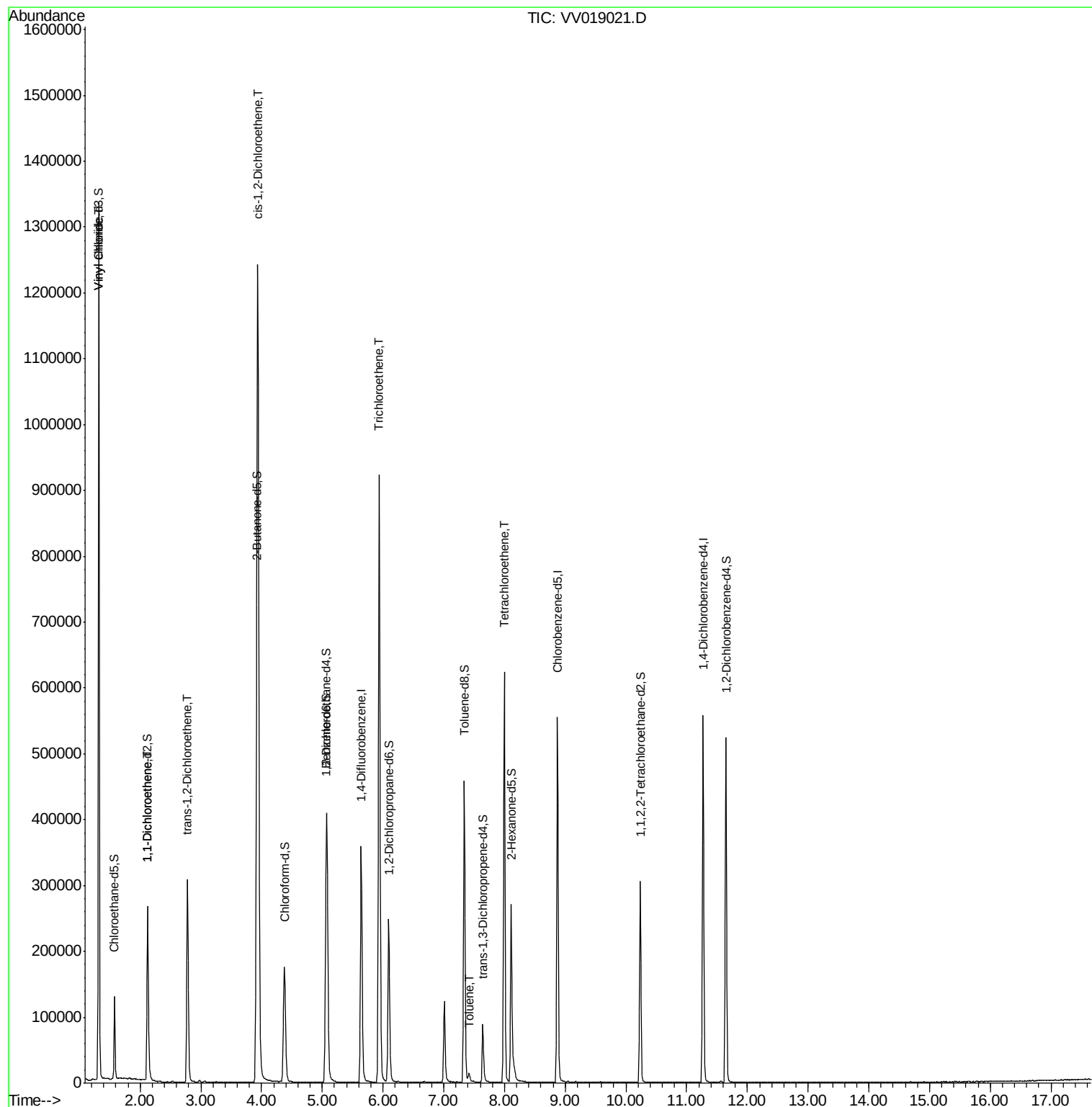
|                              |      |     |        |         | Ovalue   |
|------------------------------|------|-----|--------|---------|----------|
| 5) Vinyl chloride            | 1.32 | 62  | 739370 | 272.193 | ug/L 97  |
| 12) 1,1-Dichloroethene       | 2.13 | 96  | 13209  | 6.982   | ug/L # 1 |
| 17) trans-1,2-Dichloroethene | 2.78 | 96  | 109792 | 52.277  | ug/L 96  |
| 20) cis-1,2-Dichloroethene   | 3.94 | 96  | 641629 | 288.248 | ug/L 98  |
| 34) Trichloroethene          | 5.94 | 95  | 308537 | 121.210 | ug/L 99  |
| 42) Toluene                  | 7.42 | 91  | 10183  | 1.117   | ug/L 95  |
| 46) Tetrachloroethene        | 8.00 | 164 | 133758 | 74.561  | ug/L 100 |

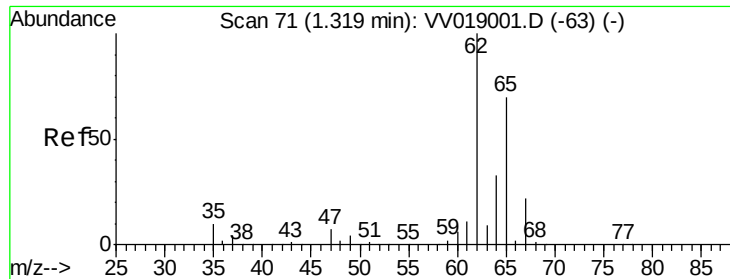
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L4430-02  
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Quant Title : VOC Analysis  
QLast Update : Wed Oct 21 06:02:04 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 272.193 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019021.D

Acq: 20 Oct 2020 17:57

Instrument :

MSVOA\_V

ClientSampled :

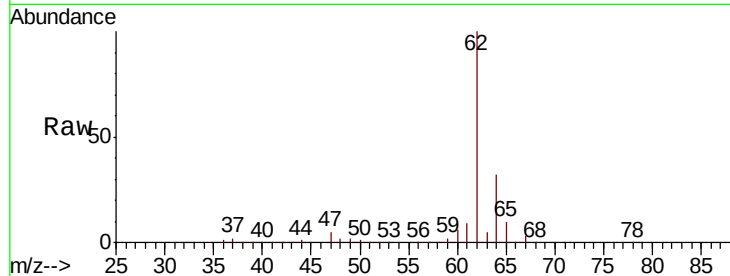
C0AB1

Tot Ion: 62 Resp: 739370

Ion Ratio Lower Upper

62 100

64 31.8 23.2 43.2



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

800000

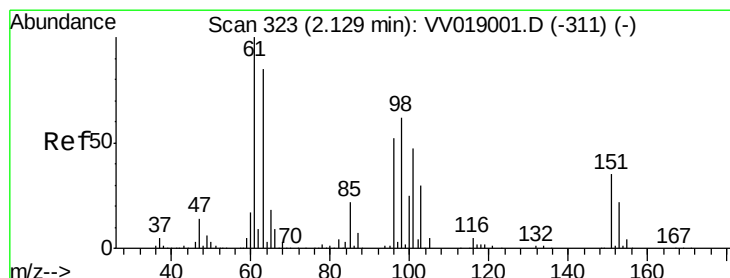
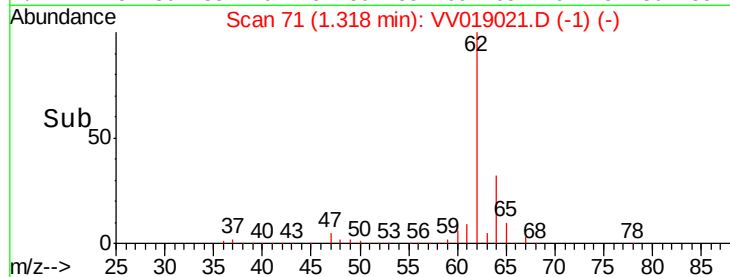
600000

400000

200000

0

Time-->



#12

1,1-Dichloroethene

Concen: 6.982 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019021.D

Acq: 20 Oct 2020 17:57

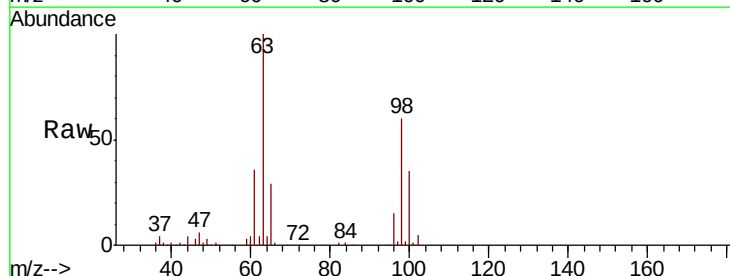
Tgt Ion: 96 Resp: 13209

Ion Ratio Lower Upper

96 100

61 235.9 133.5 247.9

63 648.3 102.1 189.7#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0

120000

100000

80000

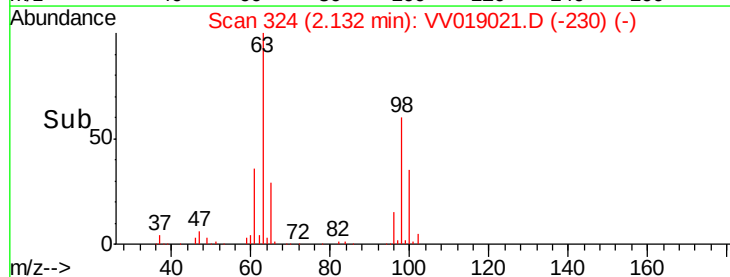
60000

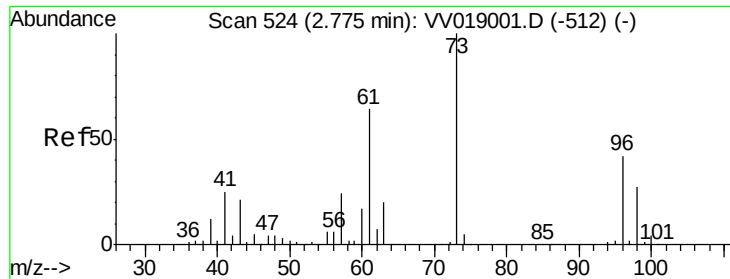
40000

20000

0

Time-->

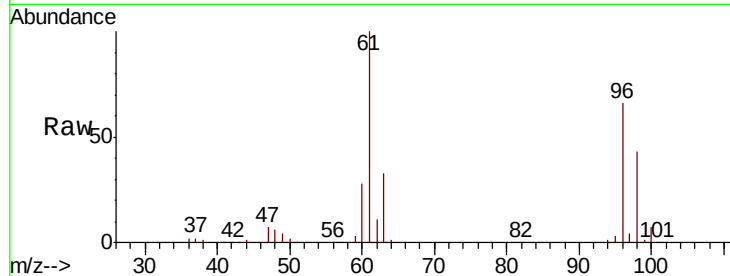




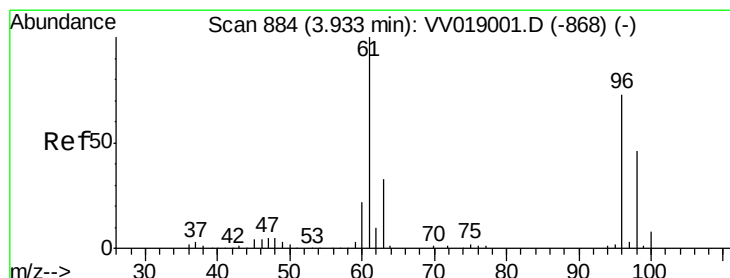
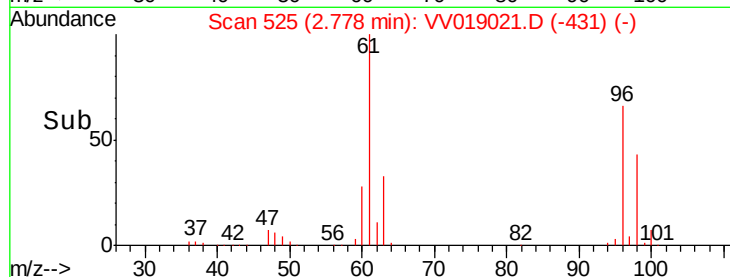
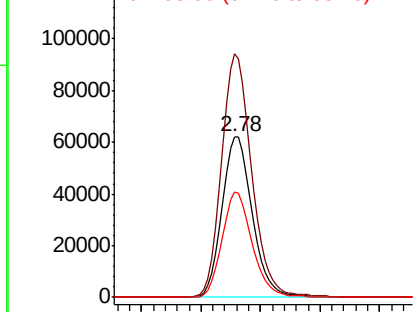
#17  
trans-1,2-Dichloroethene  
Concen: 52.277 ug/L  
RT: 2.78 min Scan# 525  
Delta R.T. 0.00 min  
Lab File: VV019021.D  
Acq: 20 Oct 2020 17:57

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AB1

Tot Ion: 96 Resp: 109792  
Ion Ratio Lower Upper  
96 100  
61 151.3 102.8 190.8  
98 65.8 44.0 81.6

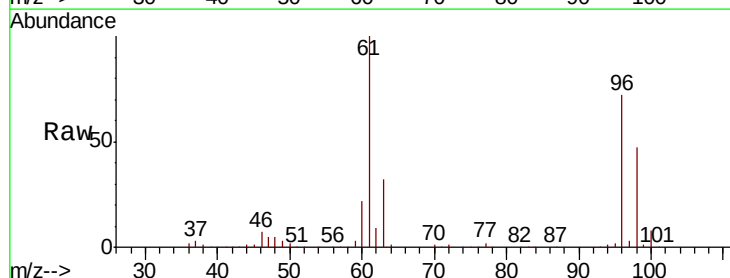


Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.00 (60.70 to 61.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0

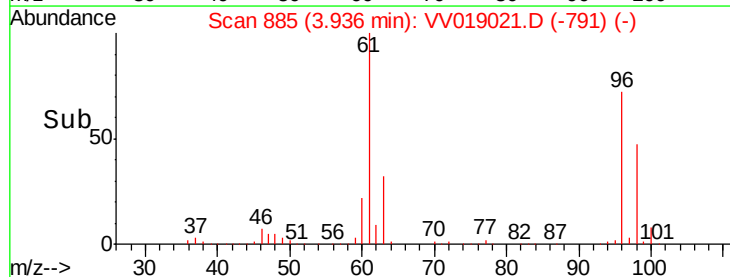
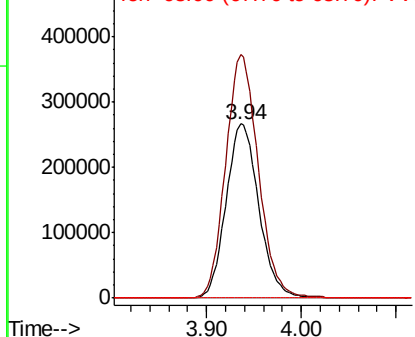


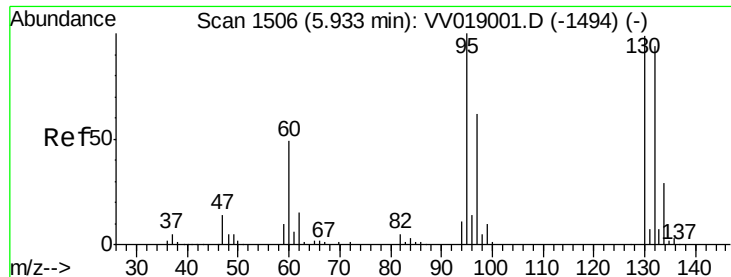
#20  
cis-1,2-Dichloroethene  
Concen: 288.248 ug/L  
RT: 3.94 min Scan# 885  
Delta R.T. 0.00 min  
Lab File: VV019021.D  
Acq: 20 Oct 2020 17:57

Tgt Ion: 96 Resp: 641629  
Ion Ratio Lower Upper  
96 100  
61 139.6 96.1 178.5  
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.00 (60.70 to 61.70): VV0  
Ion 68.00 (67.70 to 68.70): VV0

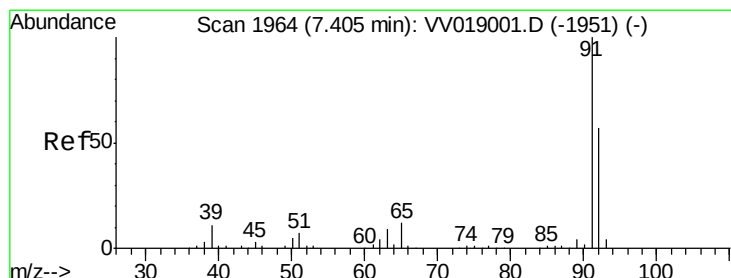
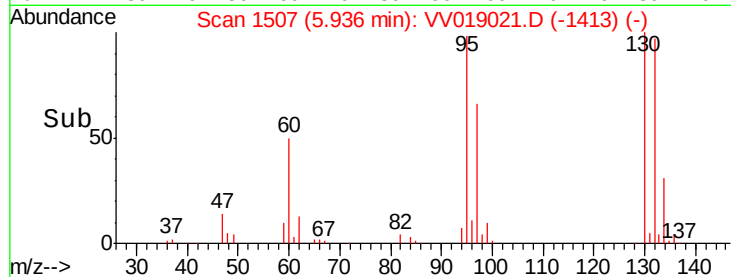
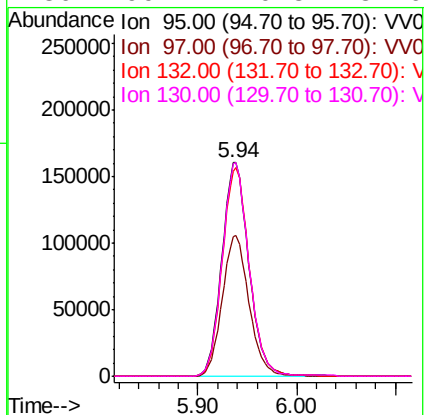
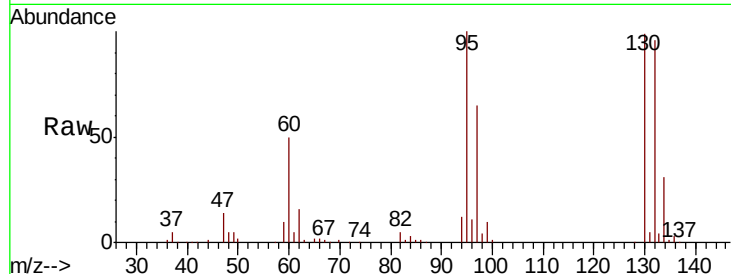




#34  
 Trichloroethene  
 Concen: 121.210 ug/L  
 RT: 5.94 min Scan# 1507  
 Delta R.T. 0.00 min  
 Lab File: VV019021.D  
 Acq: 20 Oct 2020 17:57

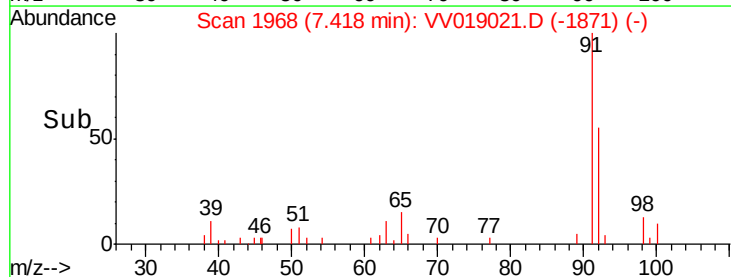
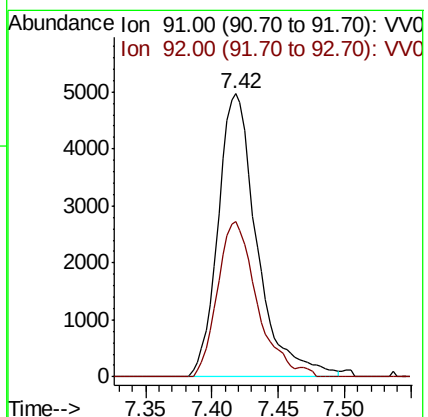
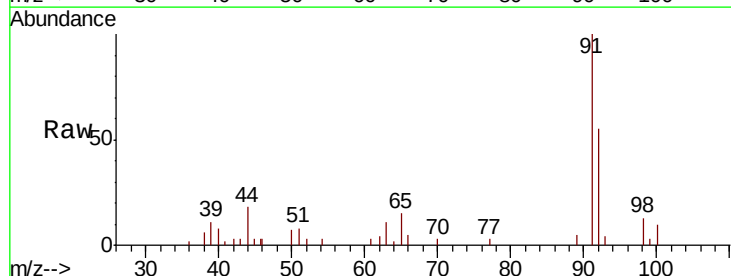
Instrument :  
 MSVOA\_V  
 ClientSampleID :  
 C0AB1

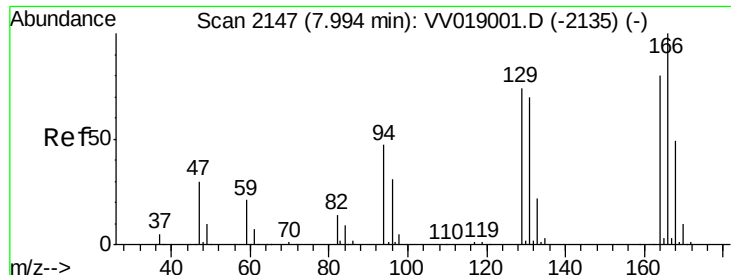
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 95    | Resp: | 308537 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 65.2  | 44.7  | 82.9   |
| 132      | 96.1  | 67.0  | 124.4  |
| 130      | 99.4  | 70.8  | 131.6  |



#42  
 Toluene  
 Concen: 1.117 ug/L  
 RT: 7.42 min Scan# 1968  
 Delta R.T. 0.01 min  
 Lab File: VV019021.D  
 Acq: 20 Oct 2020 17:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 10183 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 54.8  | 41.2  | 76.4  |





#46

Tetrachloroethene

Concen: 74.561 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV019021.D

Acq: 20 Oct 2020 17:57

Instrument :

MSVOA\_V

ClientSampleId :

C0AB1

Tot Ion:164 Resp: 133758

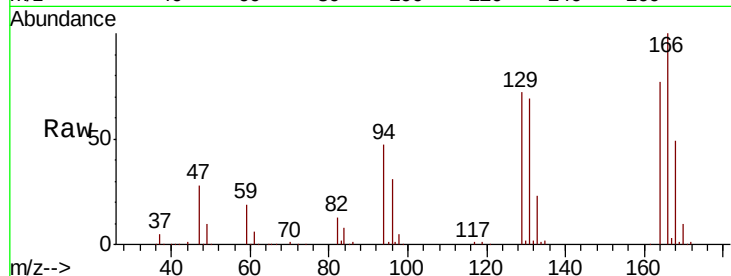
Ion Ratio Lower Upper

164 100

129 93.4 65.0 120.8

131 89.8 62.9 116.7

166 129.9 91.1 169.3



Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

