

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102519\  
 Data File : VV013338.D  
 Acq On : 25 Oct 2019 01:17  
 Operator : SY/MD  
 Sample : K5462-23  
 Misc : 25.0ML/MSVOA V/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 H0G27

Quant Time: Oct 25 06:29:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR102119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Oct 25 04:42:43 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 428579   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 453809   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 240419   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 174016   | 5.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 110.20% |
| 7) Chloroethane-d5             | 1.59   | 69    | 126927   | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 186689   | 3.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 66.40%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 298130   | 49.13    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 98.26%  |
| 24) Chloroform-d               | 4.40   | 84    | 318699   | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 85.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 156469   | 4.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.80%  |
| 32) Benzene-d6                 | 5.10   | 84    | 658486   | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 199885   | 4.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 90.40%  |
| 41) Toluene-d8                 | 7.36   | 98    | 534670   | 3.93     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 78.60%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 54874    | 3.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 65.60%  |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 178938   | 30.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 60.02%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 133737   | 4.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 83.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 230427   | 4.93     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.60%  |

## Target Compounds

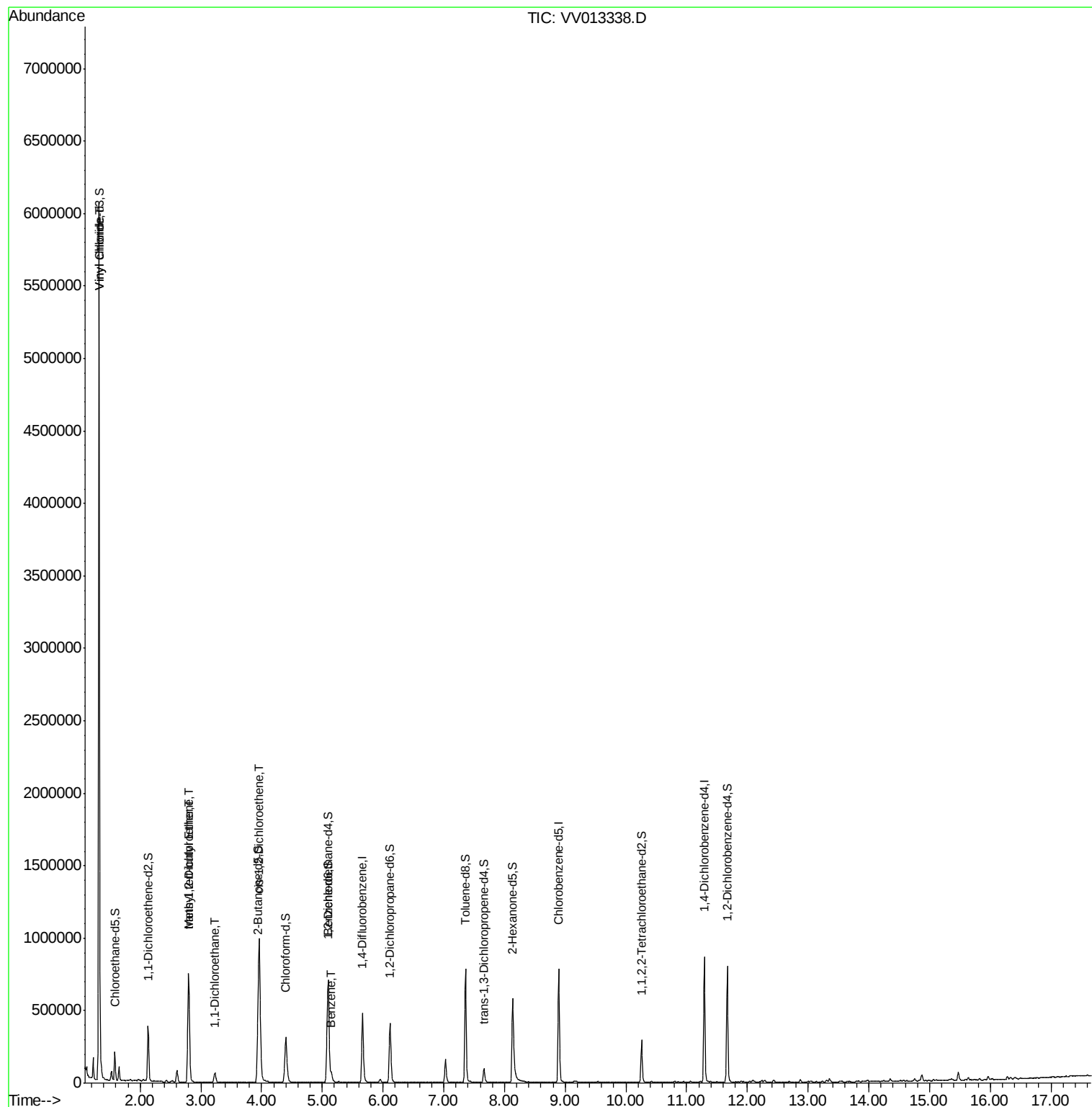
|                              |      |    |         |        | Ovalue    |
|------------------------------|------|----|---------|--------|-----------|
| 5) Vinyl chloride            | 1.32 | 62 | 3640743 | 88.024 | ug/L 99   |
| 17) Methyl tert-butyl Ether  | 2.80 | 73 | 442924  | 5.676  | ug/L 95   |
| 18) trans-1,2-Dichloroethene | 2.79 | 96 | 140785  | 3.544  | ug/L 92   |
| 19) 1,1-Dichloroethane       | 3.23 | 63 | 66809   | 1.035  | ug/L 98   |
| 22) cis-1,2-Dichloroethene   | 3.96 | 96 | 534419  | 12.570 | ug/L # 93 |
| 33) Benzene                  | 5.15 | 78 | 60174   | 0.347  | ug/L 100  |

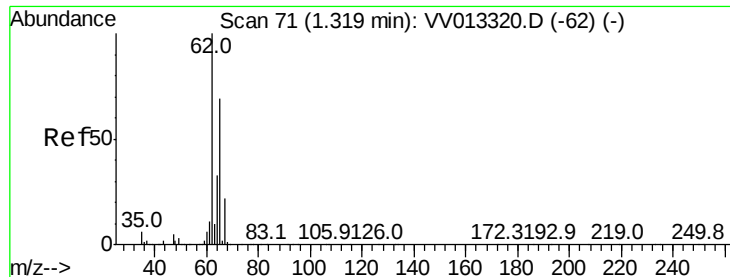
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 25 04:42:43 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 88.024 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013338.D

Acq: 25 Oct 2019 01:17

Instrument :

MSVOA\_V

ClientSampleId :

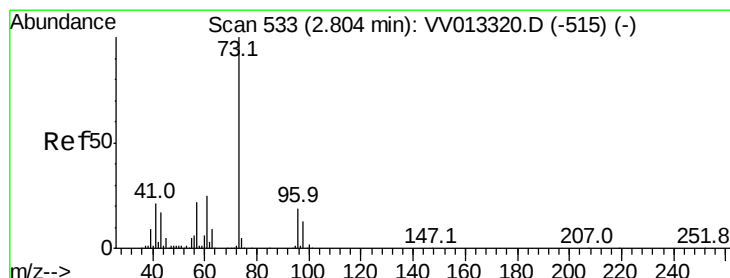
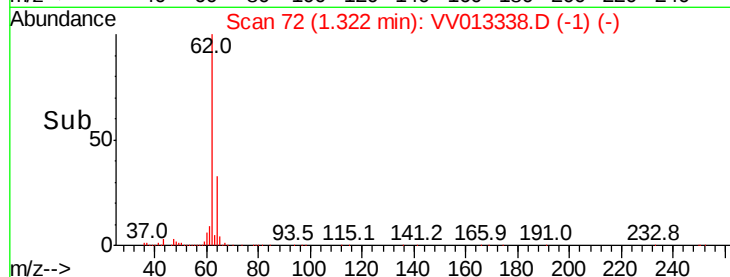
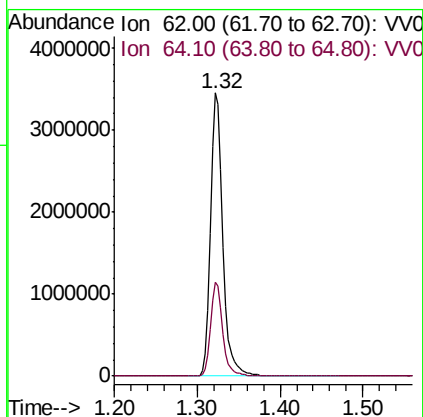
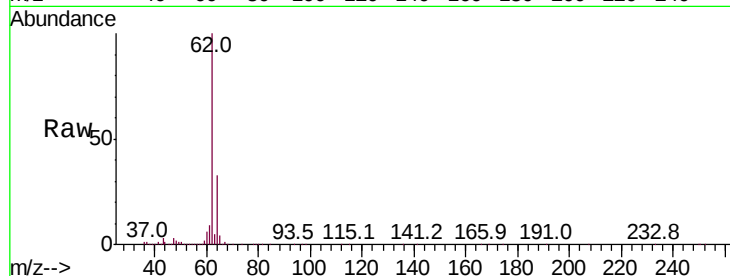
H0G27

Tot Ion: 62 Resp: 3640743

Ion Ratio Lower Upper

62 100

64 33.1 22.9 42.5



#17

Methyl tert-butyl Ether

Concen: 5.676 ug/L

RT: 2.80 min Scan# 533

Delta R.T. -0.00 min

Lab File: VV013338.D

Acq: 25 Oct 2019 01:17

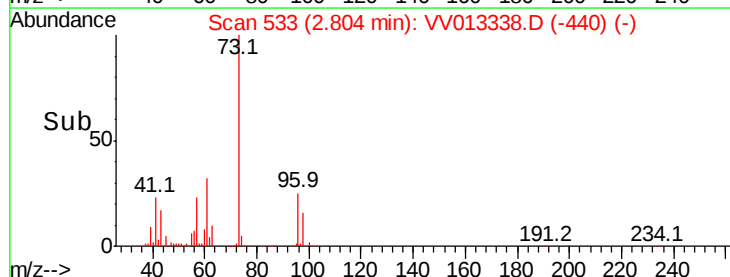
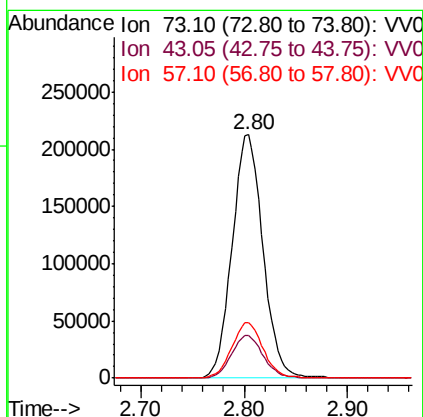
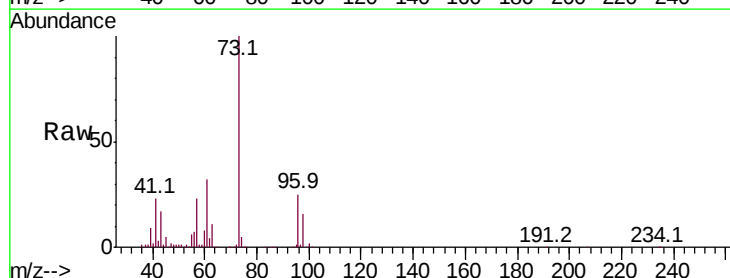
Tgt Ion: 73 Resp: 442924

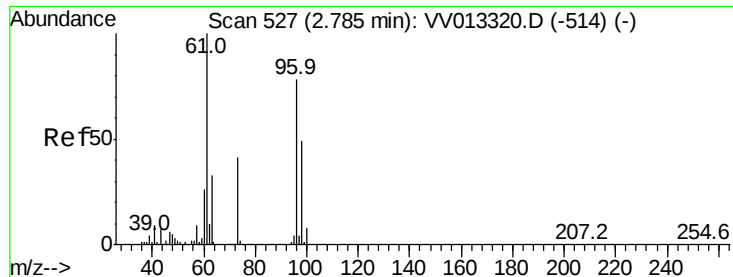
Ion Ratio Lower Upper

73 100

43 17.8 13.1 19.7

57 23.1 16.4 24.6





#18

trans-1,2-Dichloroethene

Concen: 3.544 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.01 min

Lab File: VV013338.D

Acq: 25 Oct 2019 01:17

Instrument :

MSVOA\_V

ClientSampleId :

H0G27

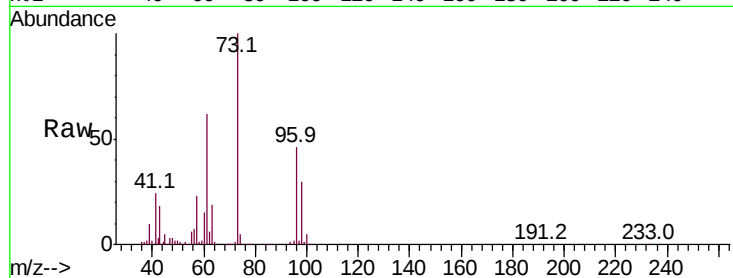
Tot Ion: 96 Resp: 140785

Ion Ratio Lower Upper

96 100

61 133.4 84.4 156.8

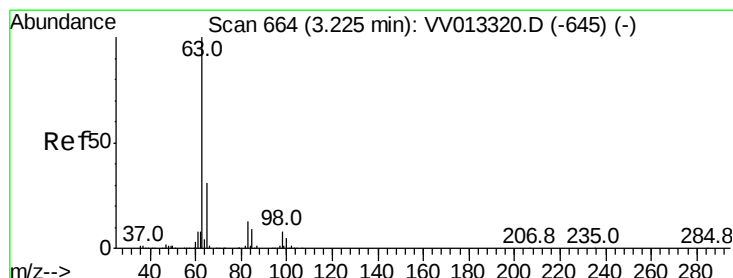
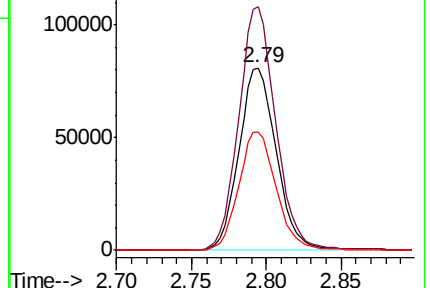
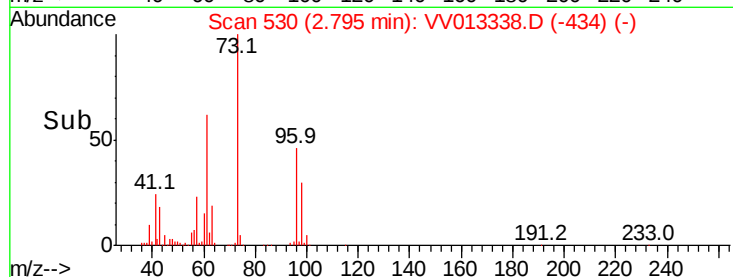
98 65.0 44.4 82.4



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0



#19

1,1-Dichloroethane

Concen: 1.035 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.01 min

Lab File: VV013338.D

Acq: 25 Oct 2019 01:17

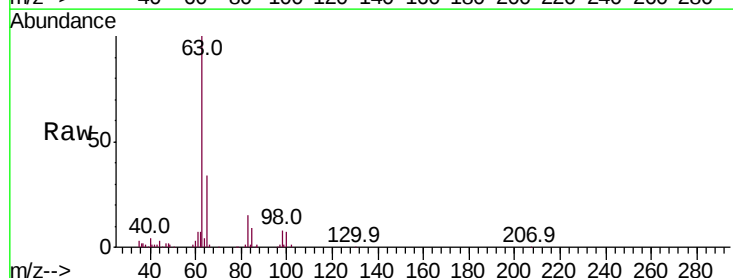
Tgt Ion: 63 Resp: 66809

Ion Ratio Lower Upper

63 100

65 34.2 23.0 42.8

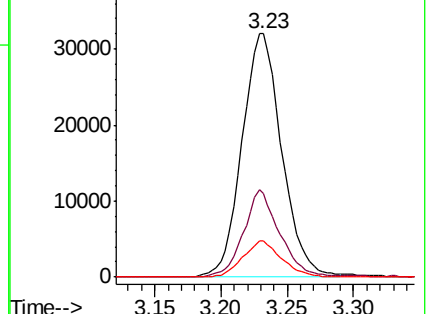
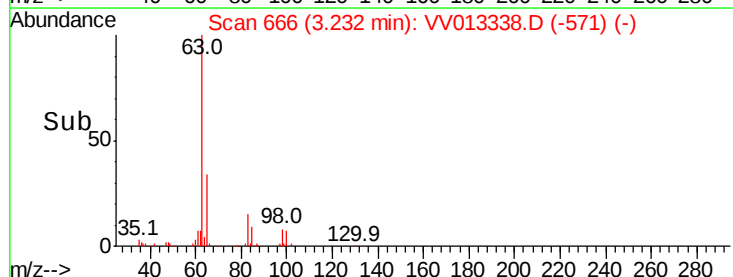
83 15.0 10.2 19.0

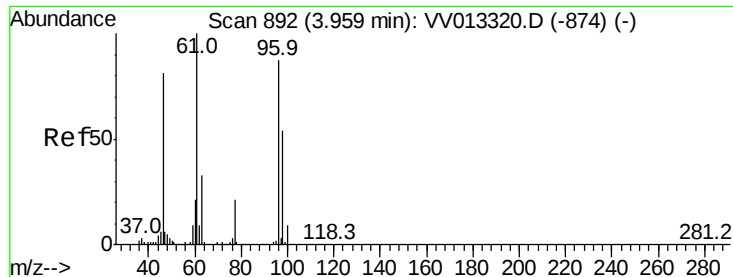


Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0





#22

cis-1,2-Dichloroethene

Concen: 12.570 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV013338.D

Acq: 25 Oct 2019 01:17

Instrument :

MSVOA\_V

ClientSampleId :

H0G27

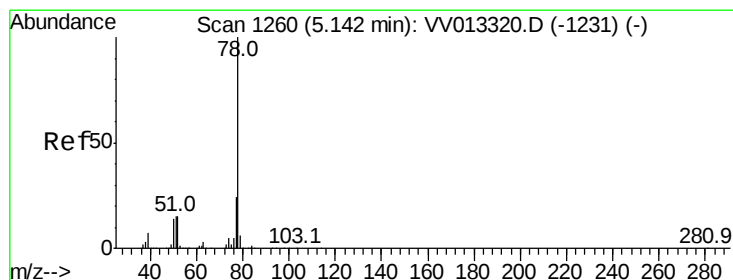
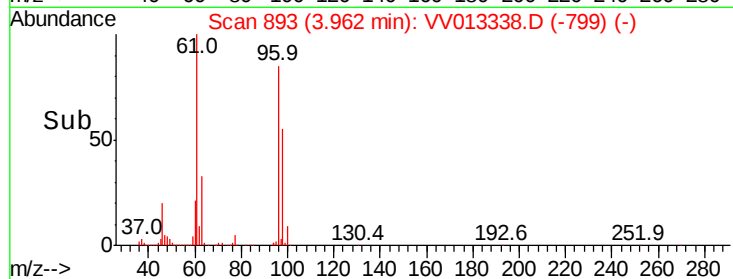
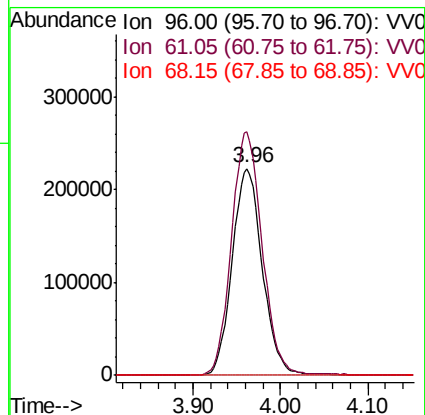
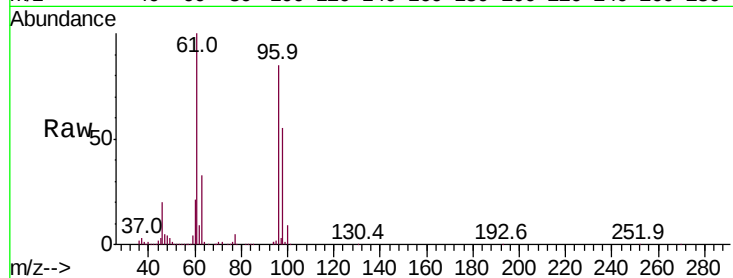
Tot Ion: 96 Resp: 534419

Ion Ratio Lower Upper

96 100

61 117.7 77.3 143.7

68 0.0 0.1 0.1#



#33

Benzene

Concen: 0.347 ug/L

RT: 5.15 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VV013338.D

Acq: 25 Oct 2019 01:17

Tgt Ion: 78 Resp: 60174

