

Data File : VV013350.D  
Acq On : 25 Oct 2019 16:56  
Operator : SY/MD  
Sample : K5462-15  
Misc : 25.0ML/MSVOA\_V/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
H0G12

Quant Time: Oct 26 01:02:04 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR102119WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 26 00:57:59 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 387743   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 415431   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 225344   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 186781   | 6.53     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 130.60%# |
| 7) Chloroethane-d5             | 1.58   | 69    | 142298   | 6.03     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 120.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 223760   | 4.40     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 88.00%   |
| 20) 2-Butanone-d5              | 3.94   | 46    | 373843   | 68.10    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 136.20%# |
| 24) Chloroform-d               | 4.40   | 84    | 342768   | 5.10     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 167266   | 5.37     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 107.40%  |
| 32) Benzene-d6                 | 5.10   | 84    | 757057   | 5.63     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 112.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 221576   | 5.48     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 109.60%  |
| 41) Toluene-d8                 | 7.36   | 98    | 635796   | 5.10     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.00%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 74071    | 4.83     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 96.60%   |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 230835   | 42.29    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 84.58%   |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 144433   | 4.94     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.80%   |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 253730   | 5.79     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 115.80%  |

#### Target Compounds

|                                |      |     |         |        |        | Qvalue |
|--------------------------------|------|-----|---------|--------|--------|--------|
| 5) Vinyl chloride              | 1.32 | 62  | 73410   | 1.962  | ug/L   | 92     |
| 8) Chloroethane                | 1.32 | 64  | 25405   | 1.139  | ug/L # | 66     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 2294    | 0.072  | ug/L # | 20     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 3984    | 0.131  | ug/L # | 1      |
| 15) Methyl Acetate             | 2.46 | 43  | 3273    | 0.341  | ug/L # | 53     |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 3641193 | 51.573 | ug/L   | 97     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 194858  | 5.422  | ug/L   | 92     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 101285  | 1.734  | ug/L   | 98     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 417146  | 10.845 | ug/L # | 90     |
| 25) Chloroform                 | 4.42 | 83  | 23674   | 0.311  | ug/L   | 90     |
| 33) Benzene                    | 5.15 | 78  | 51468   | 0.324  | ug/L   | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 66618   | 1.565  | ug/L   | 98     |
| 35) Methylcyclohexane          | 6.12 | 83  | 52684   | 0.804  | ug/L # | 19     |
| 39) cis-1,3-Dichloropropene    | 7.03 | 75  | 5012    | 0.092  | ug/L # | 47     |
| 48) 2-Hexanone                 | 8.18 | 43  | 17020   | 1.210  | ug/L # | 70     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV102519\  
Quantitation Report (Not Reviewed)

Data File : VV013350.D  
Acq On : 25 Oct 2019 16:56  
Operator : SY/MD  
Sample : K5462-15  
Misc : 25.0ML/MSVOA\_V/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
H0G12

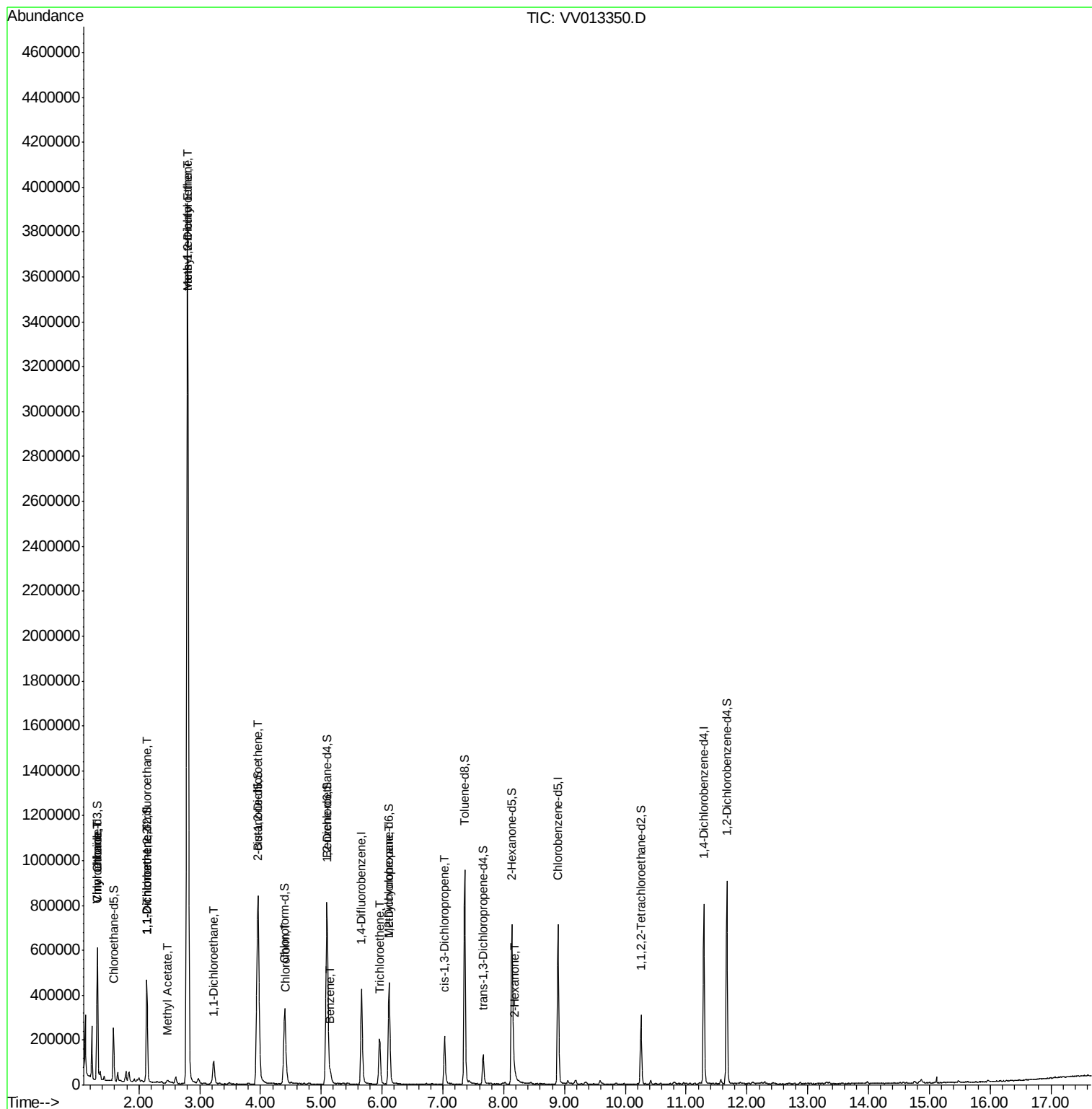
Quant Time: Oct 26 01:02:04 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR102119WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 26 00:57:59 2019  
Response via : Initial Calibration

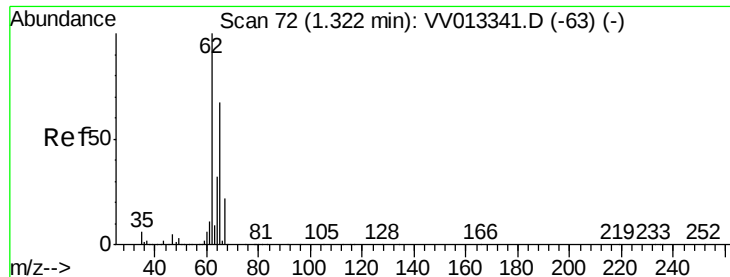
| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

Data File : VV013350.D  
Acq On : 25 Oct 2019 16:56  
Operator : SY/MD  
Sample : K5462-15  
Misc : 25.0ML/MSVOA\_V/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
H0G12

Quant Time: Oct 26 01:02:04 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR102119WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 26 00:57:59 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.962 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013350.D

Acq: 25 Oct 2019 16:56

Instrument :

MSVOA\_V

ClientSampleId :

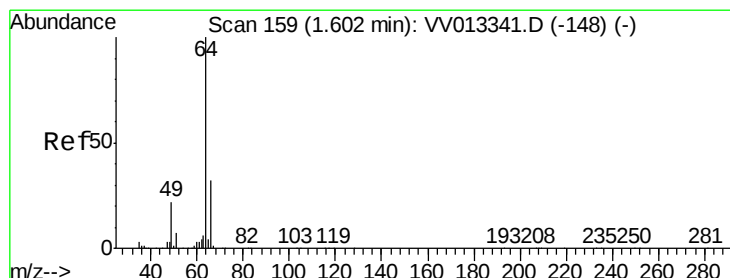
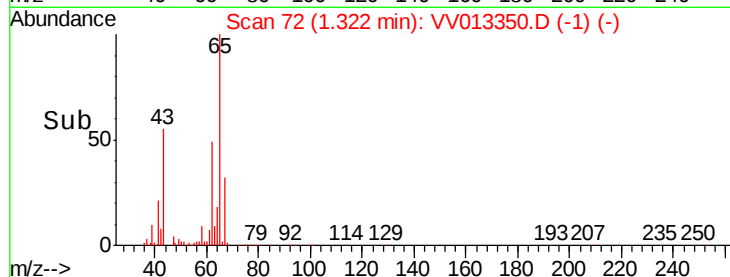
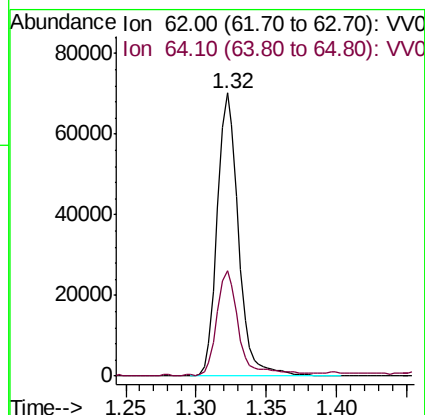
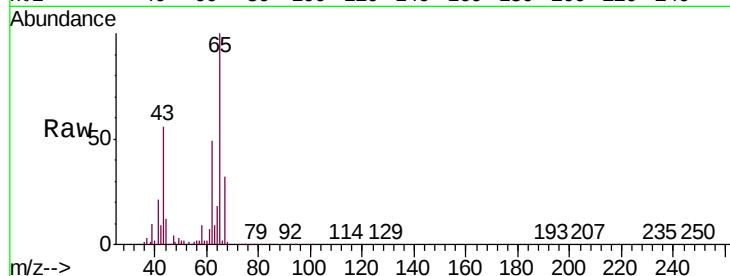
H0G12

Tgt Ion: 62 Resp: 73410

Ion Ratio Lower Upper

62 100

64 37.5 22.9 42.5



#8

Chloroethane

Concen: 1.139 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.28 min

Lab File: VV013350.D

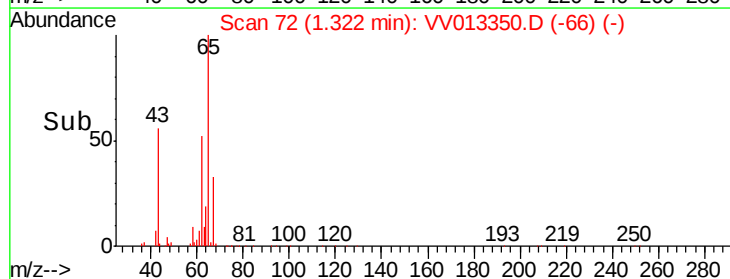
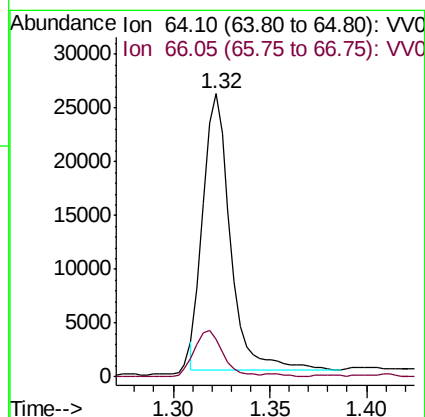
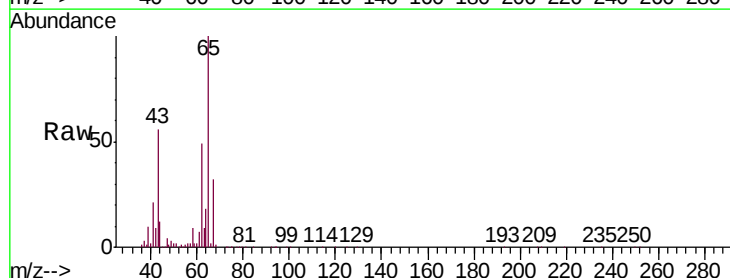
Acq: 25 Oct 2019 16:56

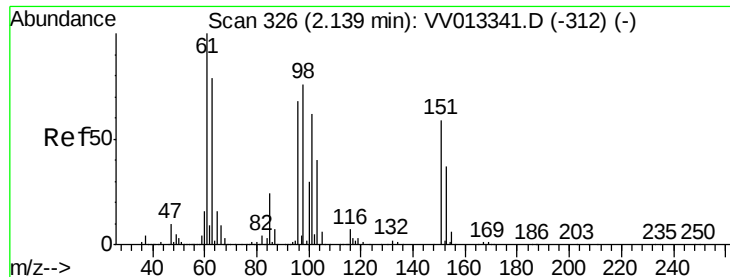
Tgt Ion: 64 Resp: 25405

Ion Ratio Lower Upper

64 100

66 13.2 22.7 42.3#





#10

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

Concen: 0.072 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV013350.D

Acq: 25 Oct 2019 16:56

Instrument :

MSVOA\_V

ClientSampleId :

H0G12

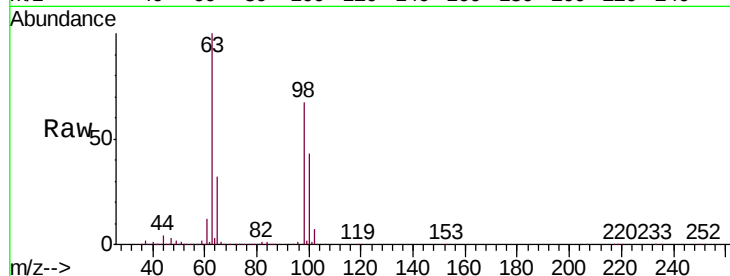
Tgt Ion:101 Resp: 2294

Ion Ratio Lower Upper

101 100

85 12.9 31.8 47.8#

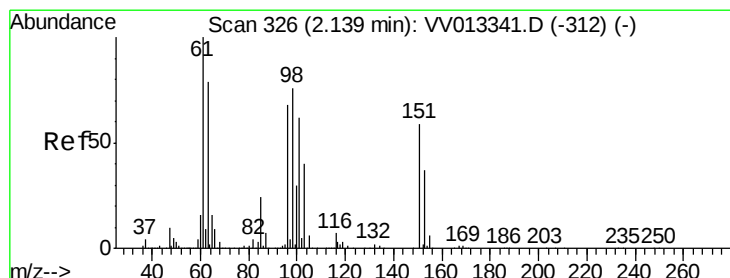
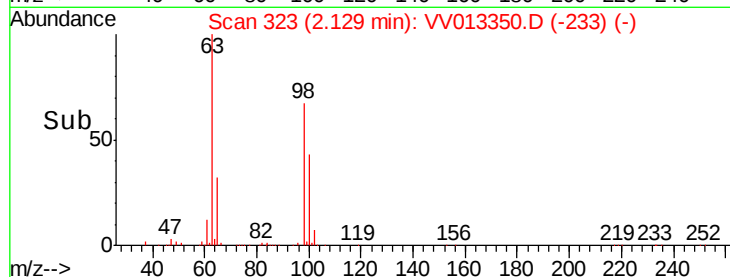
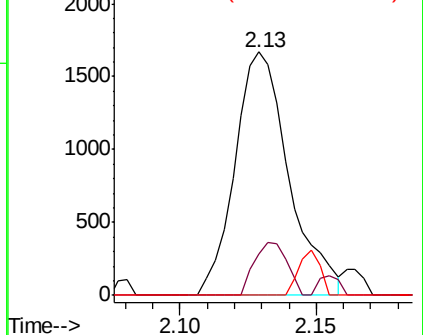
151 0.0 72.9 109.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.131 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV013350.D

Acq: 25 Oct 2019 16:56

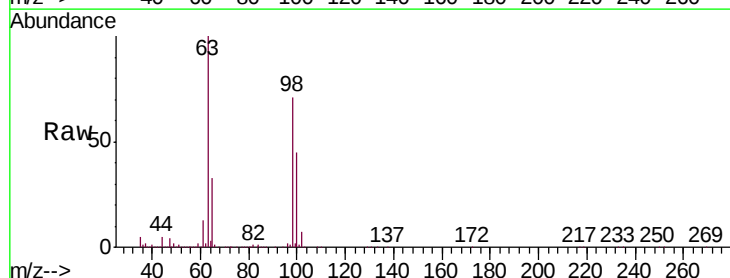
Tgt Ion: 96 Resp: 3984

Ion Ratio Lower Upper

96 100

61 848.6 104.0 193.1#

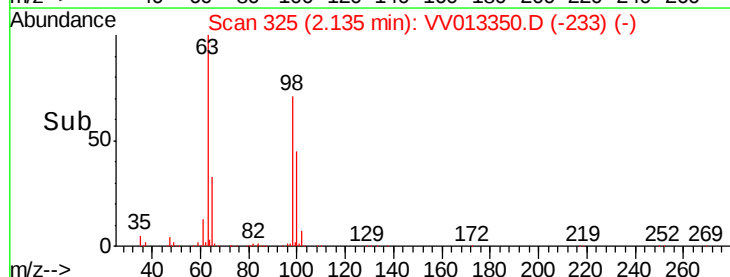
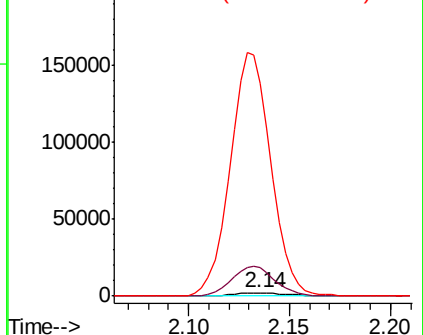
63 6441.9 67.1 124.5#

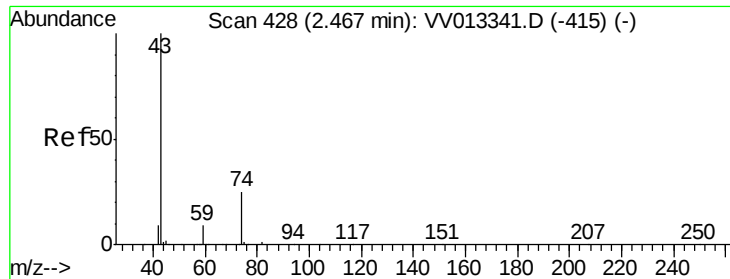


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#15

Methyl Acetate

Concen: 0.341 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.01 min

Lab File: VV013350.D

Acq: 25 Oct 2019 16:56

Instrument :

MSVOA\_V

ClientSampleId :

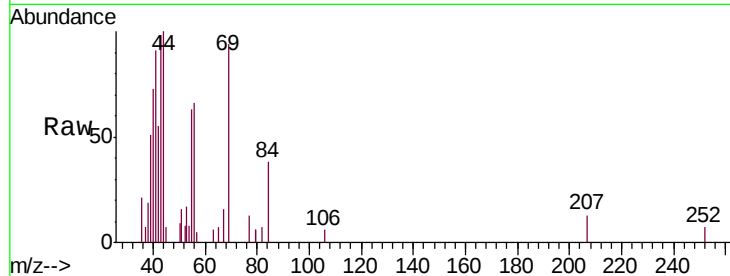
H0G12

Tgt Ion: 43 Resp: 3273

Ion Ratio Lower Upper

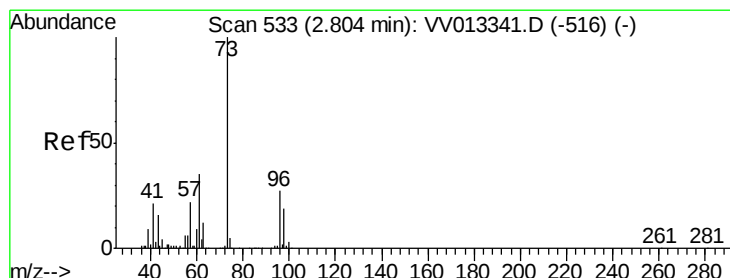
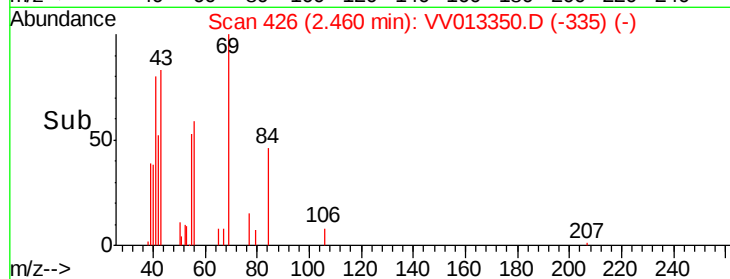
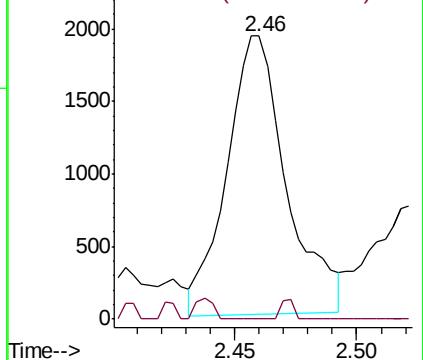
43 100

74 1.6 20.4 30.6#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#17

Methyl tert-butyl Ether

Concen: 51.573 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV013350.D

Acq: 25 Oct 2019 16:56

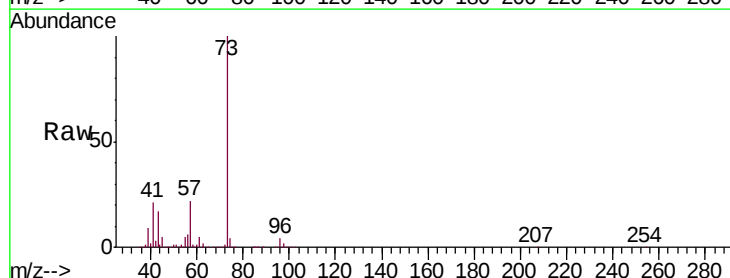
Tgt Ion: 73 Resp: 3641193

Ion Ratio Lower Upper

73 100

43 17.2 13.1 19.7

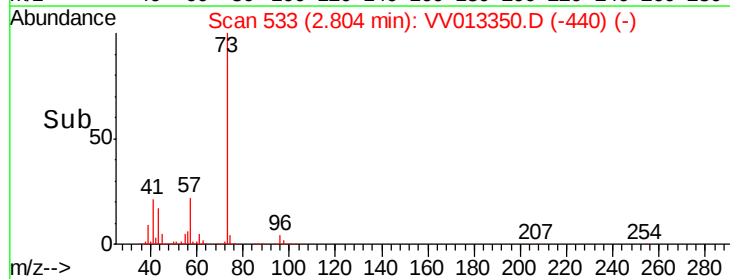
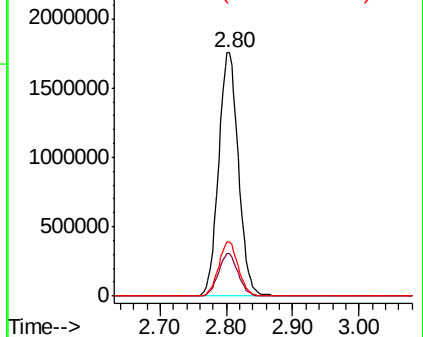
57 22.1 16.4 24.6

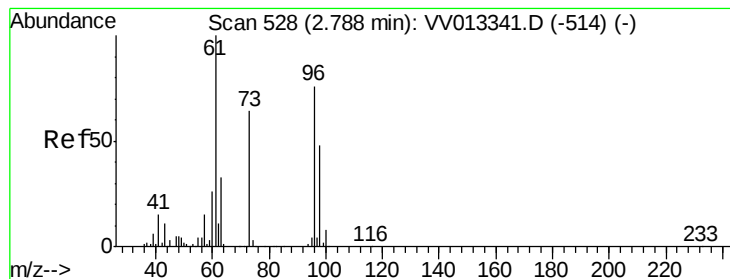


Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0





#18

trans-1,2-Dichloroethene

Concen: 5.422 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV013350.D

Acq: 25 Oct 2019 16:56

Instrument :

MSVOA\_V

ClientSampleId :

H0G12

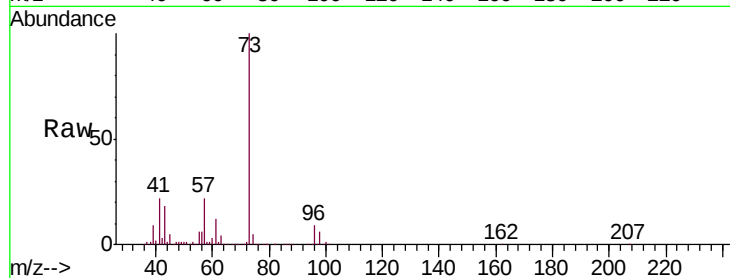
Tgt Ion: 96 Resp: 194858

Ion Ratio Lower Upper

96 100

61 134.3 84.4 156.8

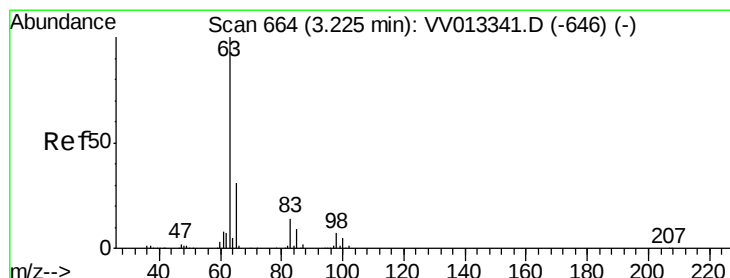
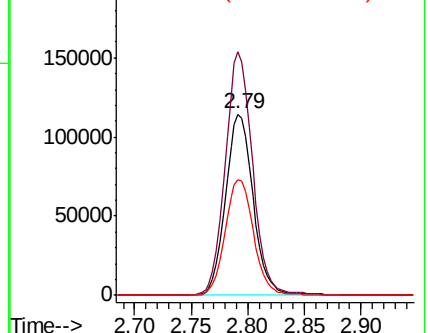
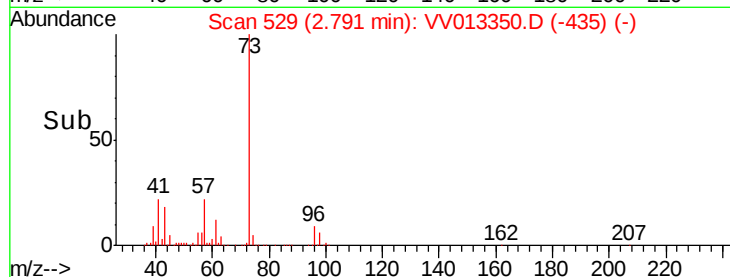
98 64.2 44.4 82.4



Abundance Ion 96.00 (95.70 to 96.70): VV013350.D (-435) (-)

Ion 61.05 (60.75 to 61.75): VV013350.D (-435) (-)

Ion 97.95 (97.65 to 98.65): VV013350.D (-435) (-)



#19

1,1-Dichloroethane

Concen: 1.734 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV013350.D

Acq: 25 Oct 2019 16:56

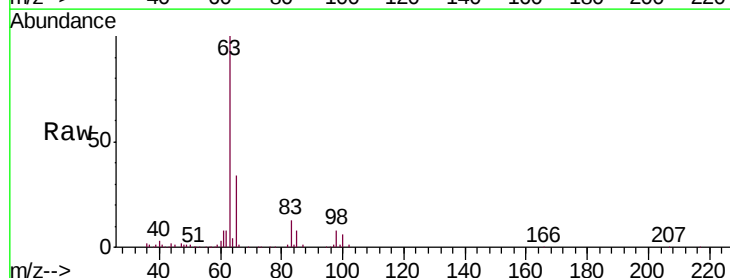
Tgt Ion: 63 Resp: 101285

Ion Ratio Lower Upper

63 100

65 34.0 23.0 42.8

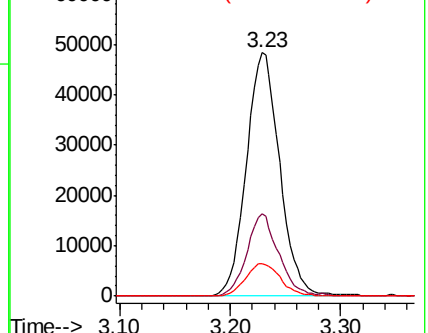
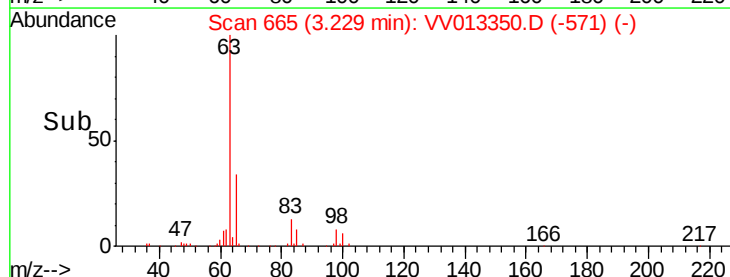
83 13.3 10.2 19.0

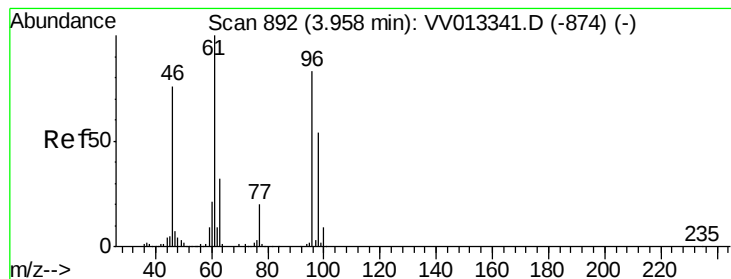


Abundance Ion 63.10 (62.80 to 63.80): VV013350.D (-571) (-)

Ion 65.10 (64.80 to 65.80): VV013350.D (-571) (-)

Ion 83.05 (82.75 to 83.75): VV013350.D (-571) (-)





#22

cis-1,2-Dichloroethene

Concen: 10.845 ug/L

RT: 3.96 min Scan# 892

Delta R.T. 0.00 min

Lab File: VV013350.D

Acq: 25 Oct 2019 16:56

Instrument :

MSVOA\_V

ClientSampleId :

H0G12

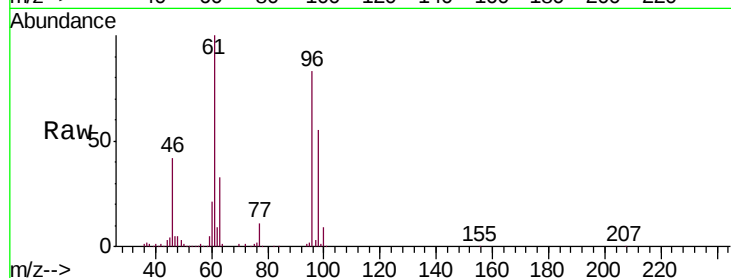
Tgt Ion: 96 Resp: 417146

Ion Ratio Lower Upper

96 100

61 121.2 77.3 143.7

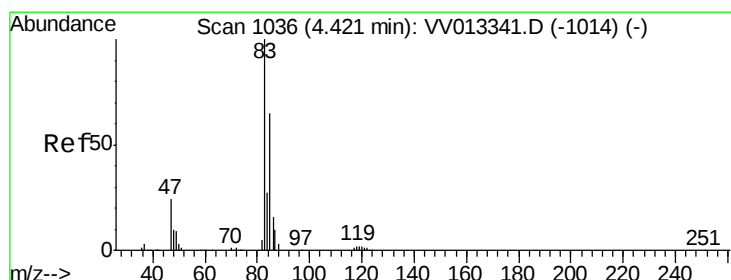
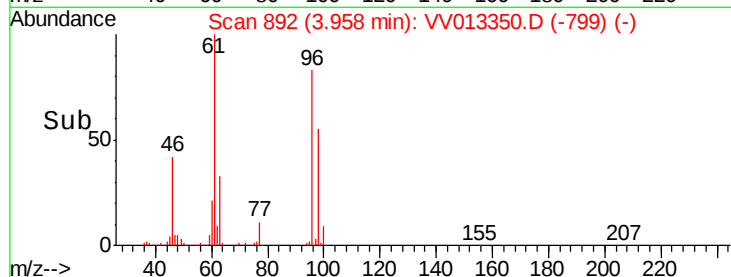
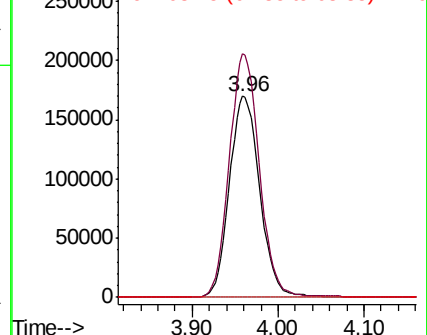
68 0.0 0.1 0.1#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0



#25

Chloroform

Concen: 0.311 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV013350.D

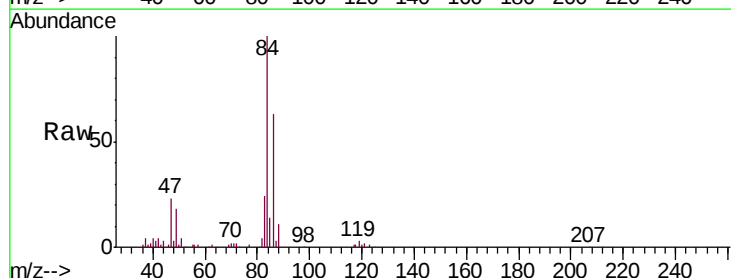
Acq: 25 Oct 2019 16:56

Tgt Ion: 83 Resp: 23674

Ion Ratio Lower Upper

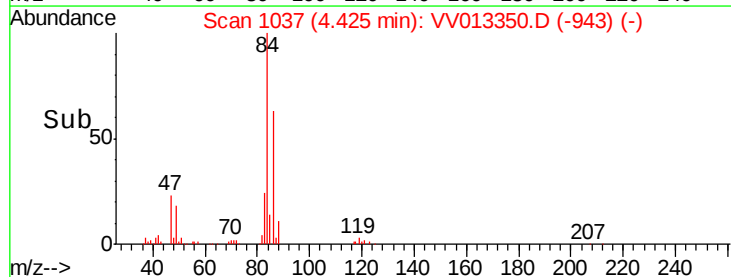
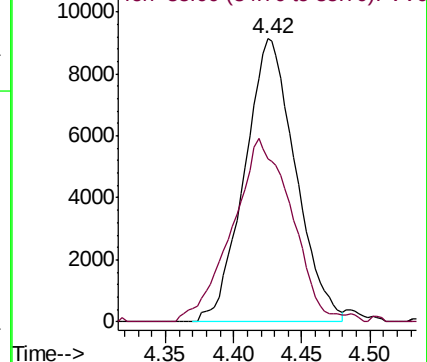
83 100

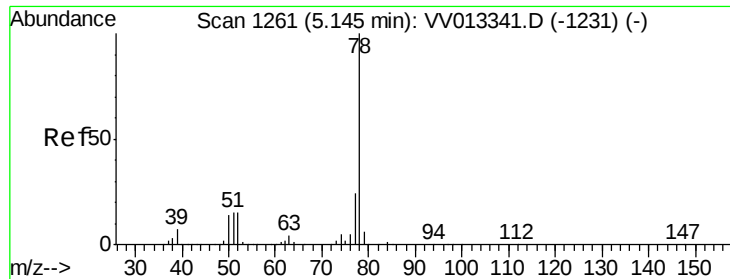
85 57.6 45.7 84.9



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0

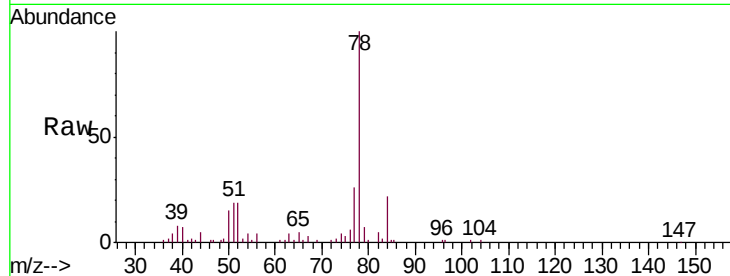




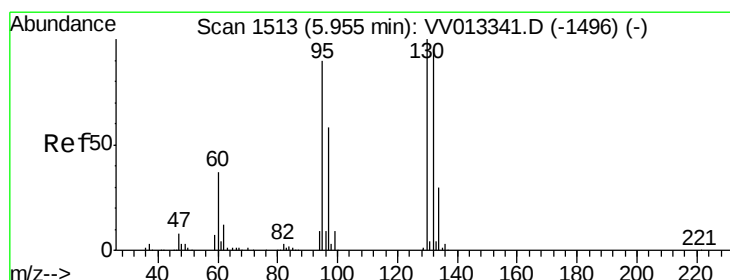
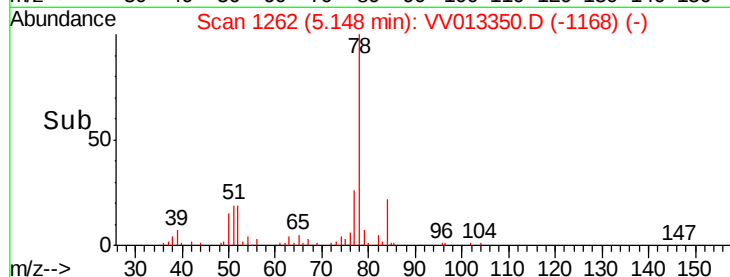
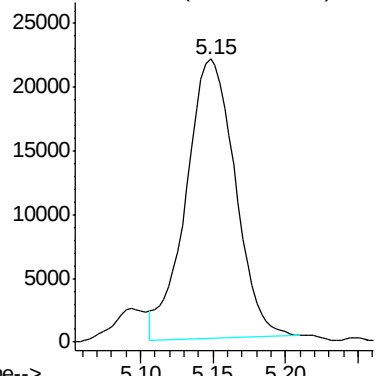
#33  
Benzene  
Concen: 0.324 ug/L  
RT: 5.15 min Scan# 1262  
Delta R.T. 0.00 min  
Lab File: VV013350.D  
Acq: 25 Oct 2019 16:56

Tgt Ion: 78 Resp: 51468

Instrument :  
MSVOA\_V  
ClientSampleId :  
H0G12



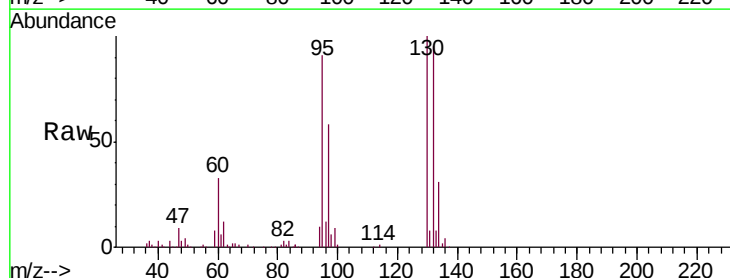
Abundance Ion 78.10 (77.80 to 78.80): VV0



#34  
Trichloroethene  
Concen: 1.565 ug/L  
RT: 5.96 min Scan# 1514  
Delta R.T. 0.00 min  
Lab File: VV013350.D  
Acq: 25 Oct 2019 16:56

Tgt Ion: 95 Resp: 66618

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.3  | 45.2  | 84.0  |
| 132 | 104.3 | 70.6  | 131.2 |
| 130 | 110.2 | 75.5  | 140.3 |

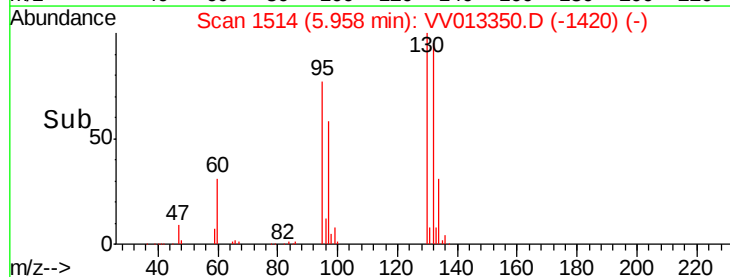
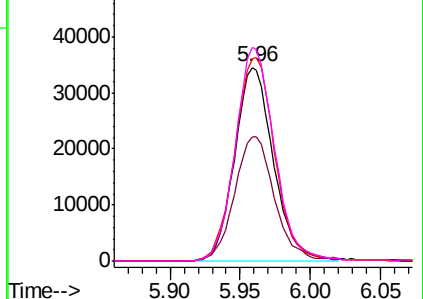


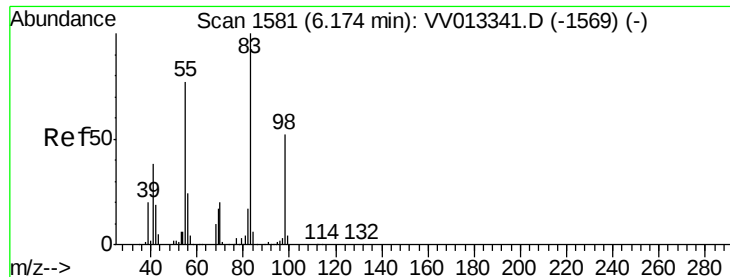
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V





#35

Methylcyclohexane

Concen: 0.804 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.06 min

Lab File: VV013350.D

Acq: 25 Oct 2019 16:56

Instrument :

MSVOA\_V

ClientSampleId :

H0G12

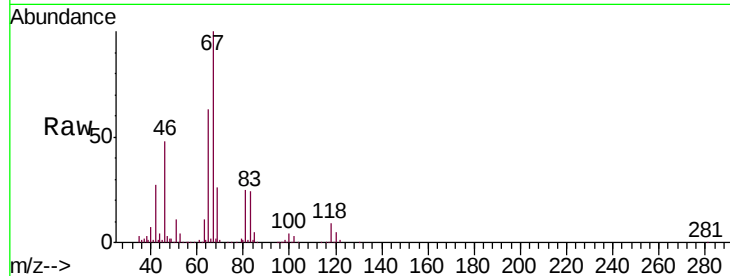
Tgt Ion: 83 Resp: 52684

Ion Ratio Lower Upper

83 100

55 0.5 62.4 93.6#

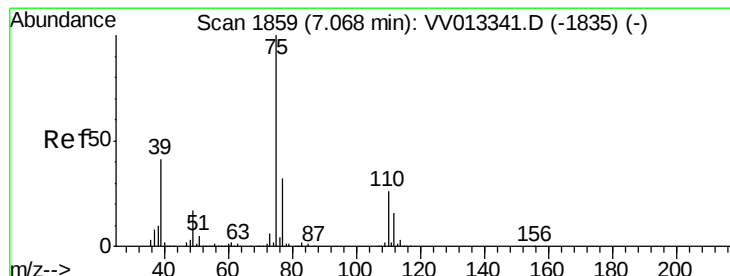
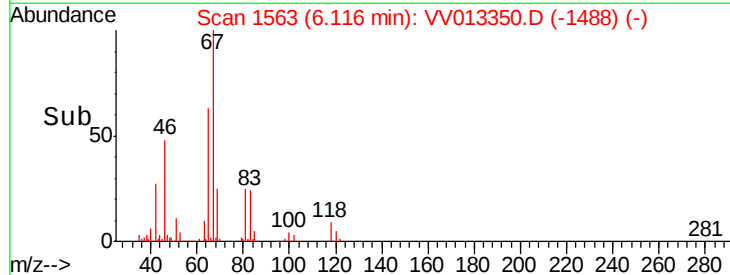
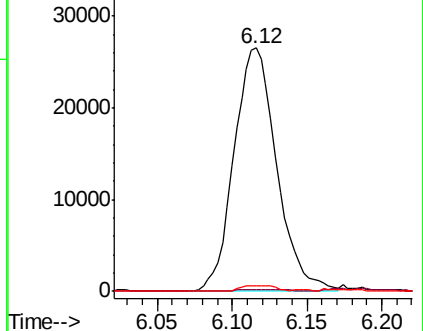
98 1.8 39.2 58.8#



Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0



#39

cis-1,3-Dichloropropene

Concen: 0.092 ug/L

RT: 7.03 min Scan# 1846

Delta R.T. -0.04 min

Lab File: VV013350.D

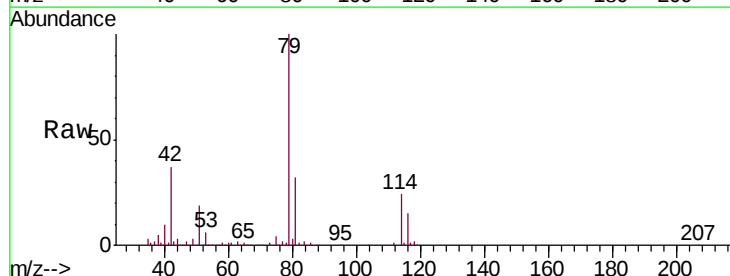
Acq: 25 Oct 2019 16:56

Tgt Ion: 75 Resp: 5012

Ion Ratio Lower Upper

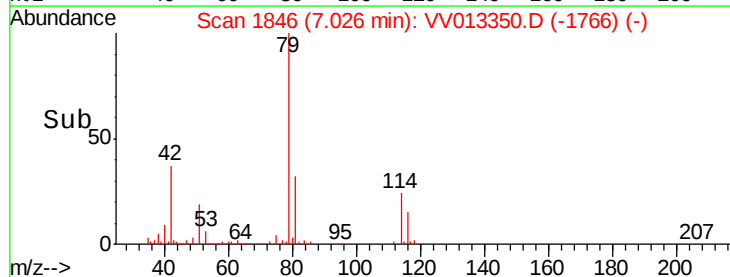
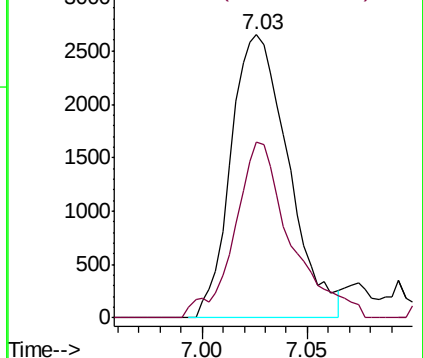
75 100

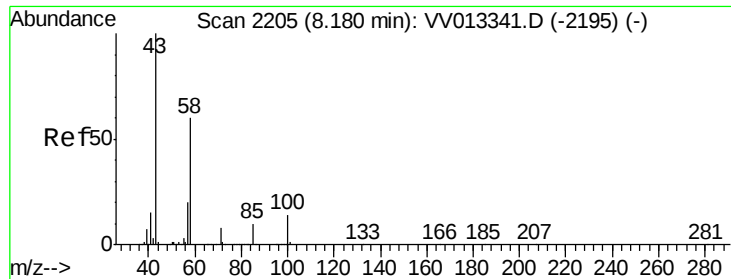
77 62.1 22.6 42.0#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0





#48

2-Hexanone

Concen: 1.210 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VV013350.D

Acq: 25 Oct 2019 16:56

Instrument :  
MSVOA\_V  
ClientSampleId :  
H0G12

Tgt Ion: 43 Resp: 17020

Ion Ratio Lower Upper

43 100

58 34.0 45.1 67.7#

57 0.0 15.5 23.3#

100 15.1 10.2 15.2

