

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042520\  
 Data File : VV015713.D  
 Acq On : 25 Apr 2020 22:54  
 Operator : SY/MD  
 Sample : L2413-20MS  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 ETKM8MS

Quant Time: May 11 03:42:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Apr 27 01:12:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 125942   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 121491   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 57038    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 36276    | 5.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 110.20% |
| 7) Chloroethane-d5             | 1.58   | 69    | 27741    | 4.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 82306    | 5.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 114.20% |
| 20) 2-Butanone-d5              | 3.92   | 46    | 109390   | 51.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.52% |
| 24) Chloroform-d               | 4.38   | 84    | 71043    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 41395    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.40%  |
| 32) Benzene-d6                 | 5.08   | 84    | 132044   | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 44829    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 96.80%  |
| 41) Toluene-d8                 | 7.34   | 98    | 121234   | 4.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.00%  |
| 43) trans-1,3-Dichloropropene- | 7.64   | 79    | 10975    | 3.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 61.20%  |
| 46) 2-Hexanone-d5              | 8.11   | 63    | 81142    | 46.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 92.88%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 31862    | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 92.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 46139    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 95.20%  |

## Target Compounds

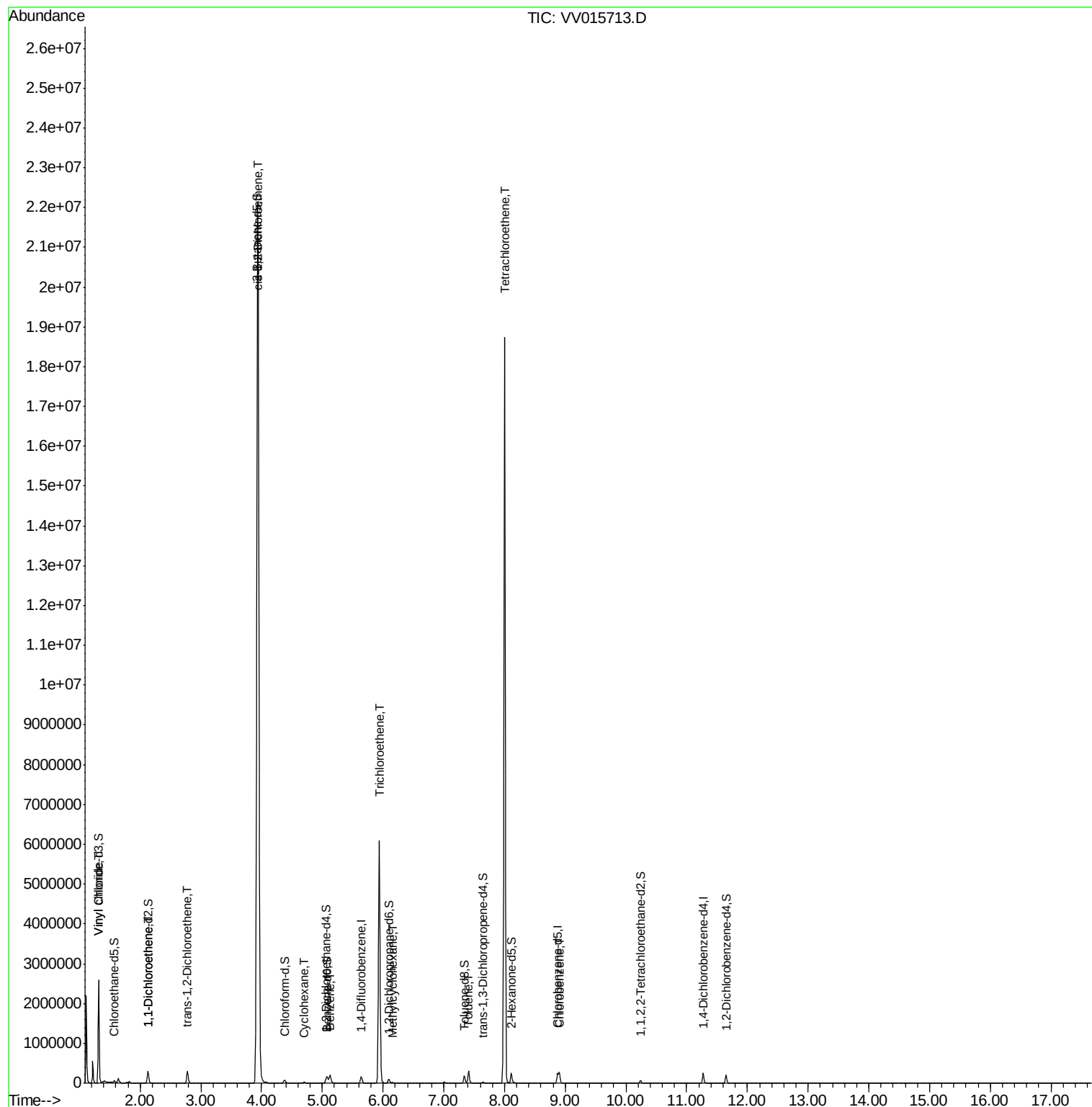
| Target Compounds             | R.T. | QIon | Response | Conc     | Units | Ovalue |
|------------------------------|------|------|----------|----------|-------|--------|
| 5) Vinyl chloride            | 1.32 | 62   | 1448285  | 145.305  | ug/L  | 100    |
| 12) 1,1-Dichloroethene       | 2.13 | 96   | 67348    | 9.188    | ug/L  | # 85   |
| 18) trans-1,2-Dichloroethene | 2.78 | 96   | 100447   | 12.239   | ug/L  | 98     |
| 22) cis-1,2-Dichloroethene   | 3.94 | 96   | 11827020 | 1303.307 | ug/L  | 95     |
| 30) Cyclohexane              | 4.70 | 56   | 10049    | 0.683    | ug/L  | 96     |
| 33) Benzene                  | 5.13 | 78   | 195402   | 5.629    | ug/L  | 100    |
| 34) Trichloroethene          | 5.94 | 95   | 2065276  | 215.451  | ug/L  | 98     |
| 35) Methylcyclohexane        | 6.15 | 83   | 4253     | 0.289    | ug/L  | 94     |
| 42) Toluene                  | 7.41 | 91   | 205925   | 5.552    | ug/L  | 99     |
| 47) Tetrachloroethene        | 8.00 | 164  | 3758698  | 544.577  | ug/L  | 97     |
| 51) Chlorobenzene            | 8.90 | 112  | 132108   | 5.437    | ug/L  | 97     |

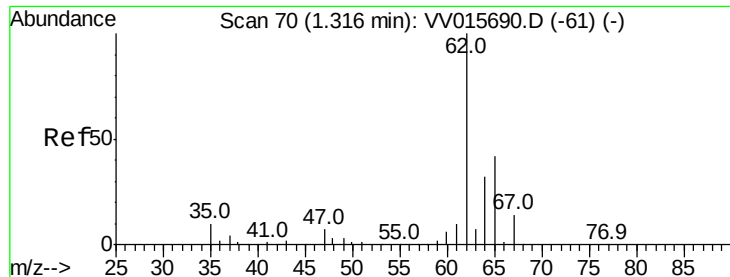
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV042520\  
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Sample : L2413-20MS  
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Instrument :  
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ClientSampleId :  
ETKM8MS

Quant Time: May 11 03:42:02 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon Apr 27 01:12:28 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 145.305 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

Instrument :

MSVOA\_V

ClientSampleId :

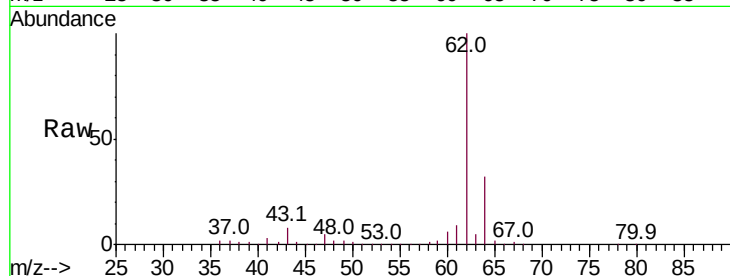
ETKM8MS

Tot Ion: 62 Resp: 1448285

Ion Ratio Lower Upper

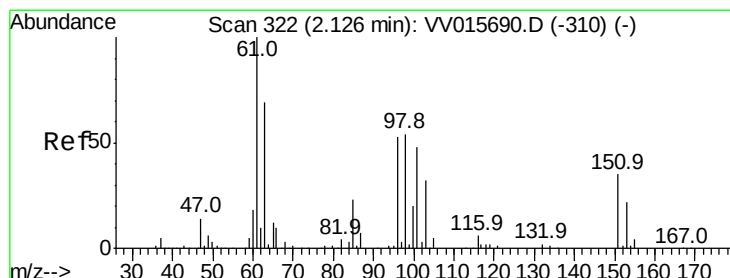
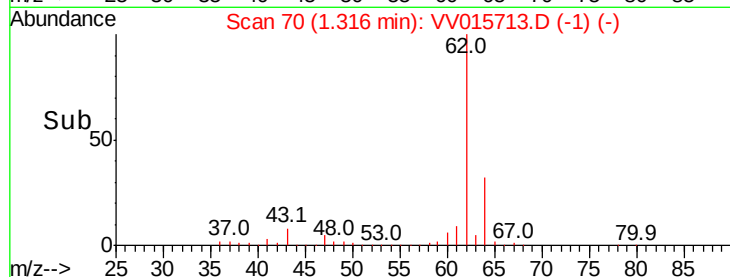
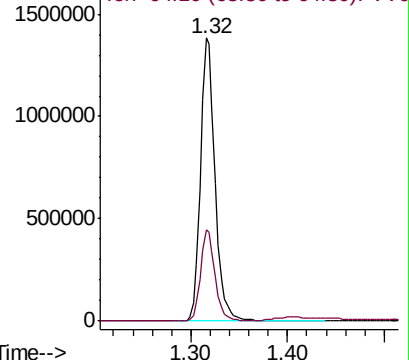
62 100

64 32.1 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#12

1,1-Dichloroethene

Concen: 9.188 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.01 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

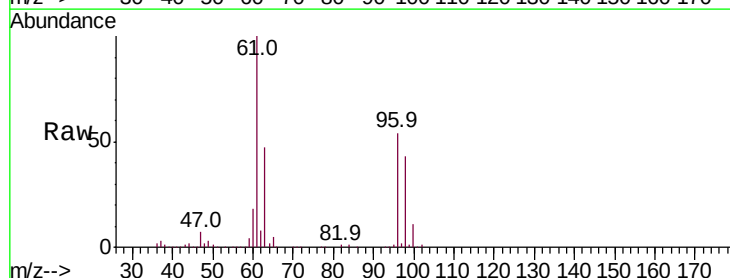
Tgt Ion: 96 Resp: 67348

Ion Ratio Lower Upper

96 100

61 185.3 130.1 241.7

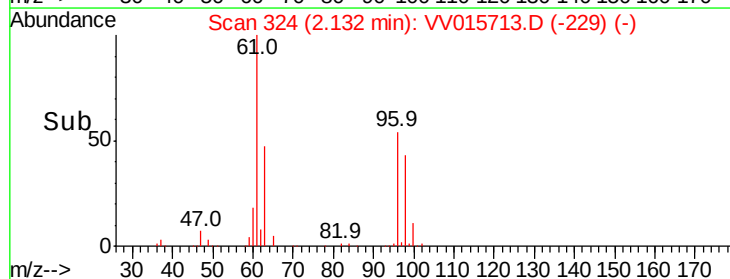
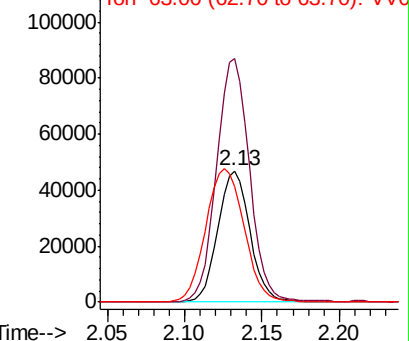
63 87.6 91.4 169.8#

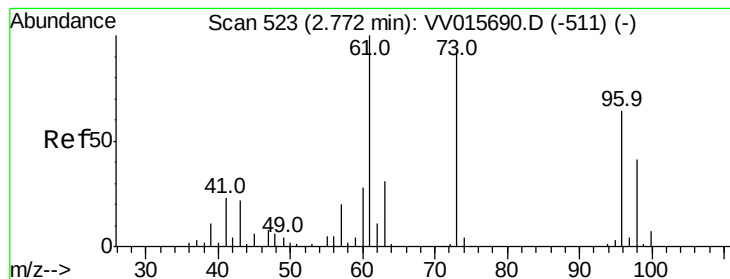


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#18

trans-1,2-Dichloroethene

Concen: 12.239 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.01 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

Instrument :

MSVOA\_V

ClientSampleId :

ETKM8MS

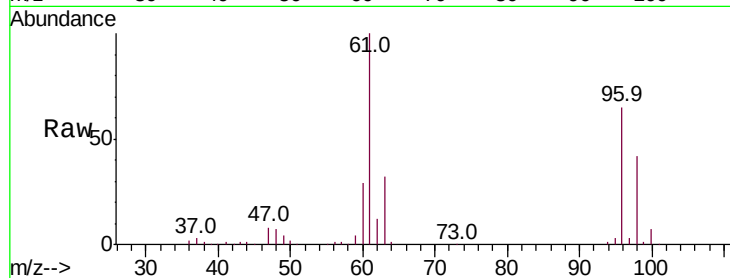
Tot Ion: 96 Resp: 100447

Ion Ratio Lower Upper

96 100

61 154.2 105.5 195.9

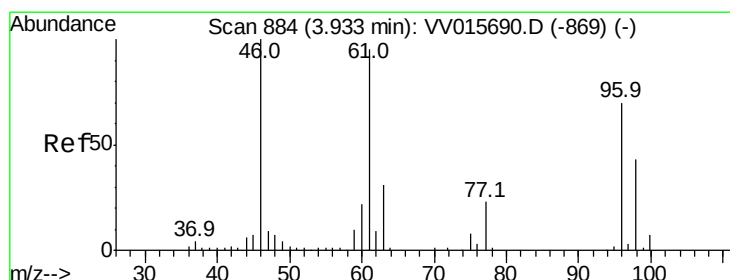
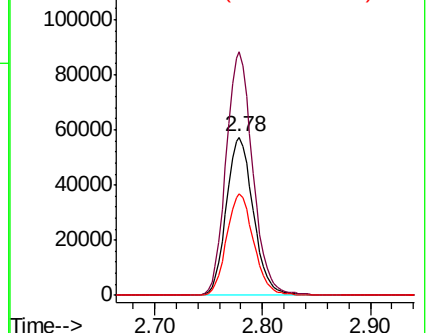
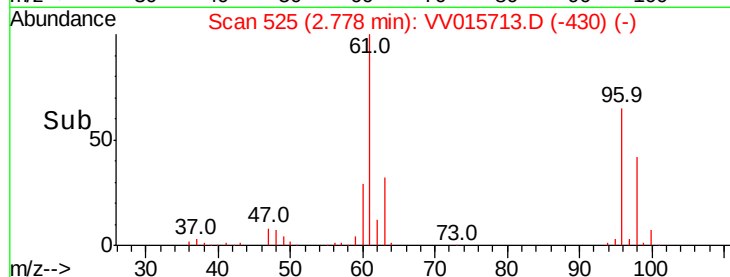
98 64.6 44.2 82.0



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



#22

cis-1,2-Dichloroethene

Concen: 1303.307 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.01 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

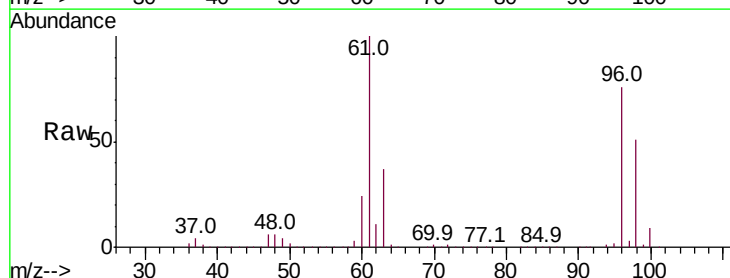
Tgt Ion: 96 Resp: 11827020

Ion Ratio Lower Upper

96 100

61 131.3 96.4 179.0

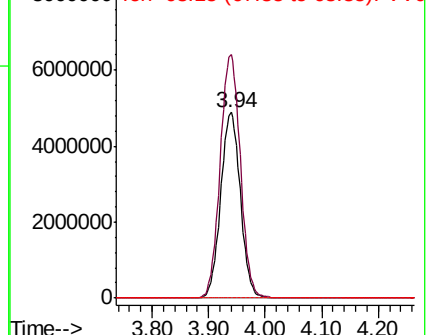
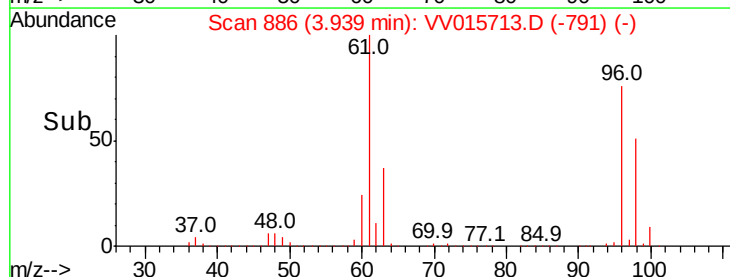
68 0.0 0.0 0.0

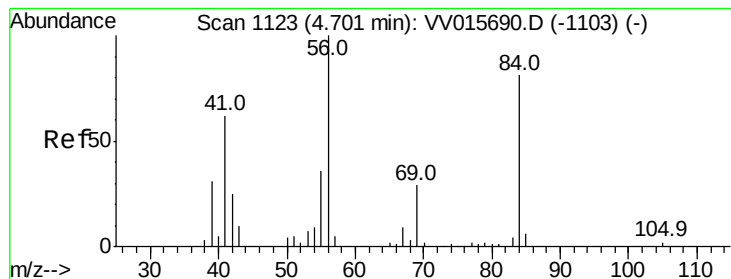


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0





#30

Cyclohexane

Concen: 0.683 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

Instrument :

MSVOA\_V

ClientSampleId :

ETKM8MS

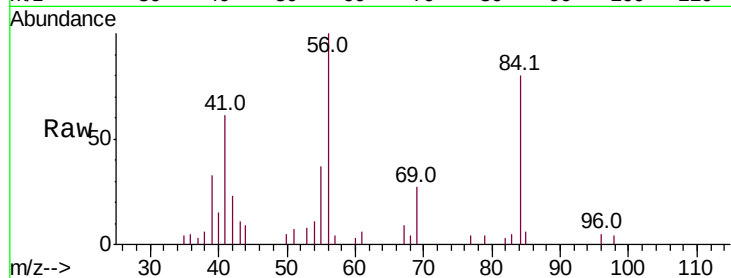
Tot Ion: 56 Resp: 10049

Ion Ratio Lower Upper

56 100

69 30.6 23.9 35.9

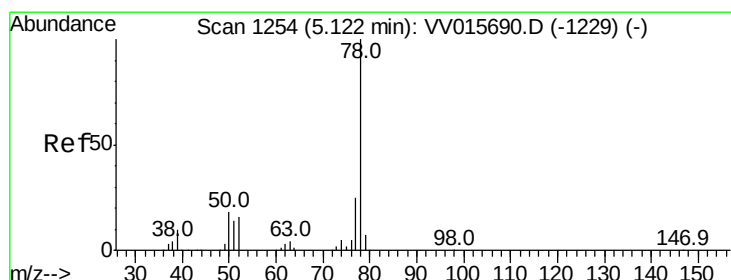
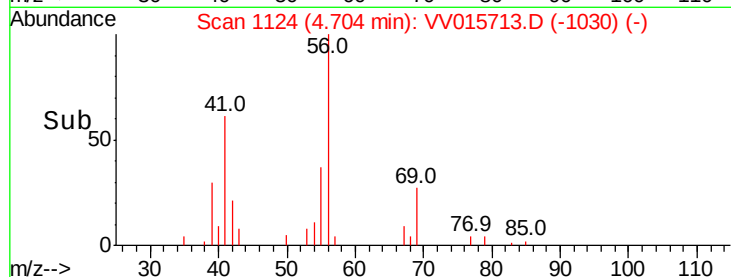
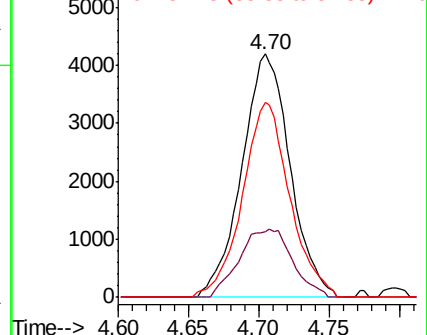
84 78.6 66.9 100.3



Abundance Ion 56.10 (55.80 to 56.80): VV015690.D (-1103) (-)

Ion 69.15 (68.85 to 69.85): VV015690.D (-1103) (-)

Ion 84.15 (83.85 to 84.85): VV015690.D (-1103) (-)



#33

Benzene

Concen: 5.629 ug/L

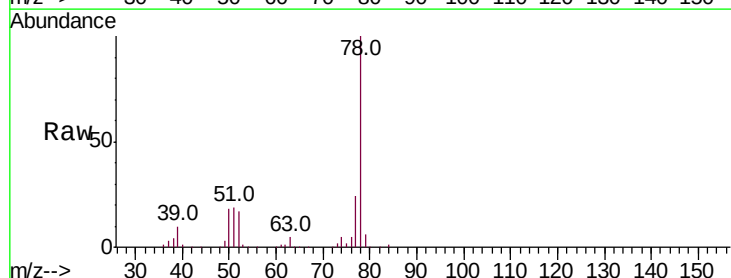
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

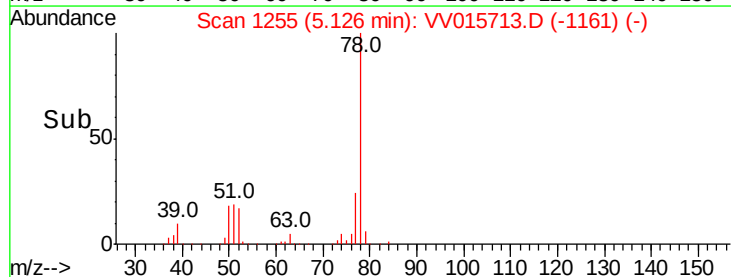
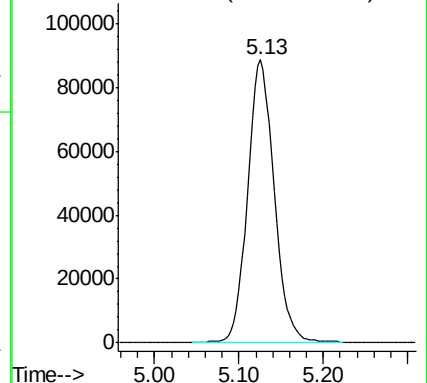
Lab File: VV015713.D

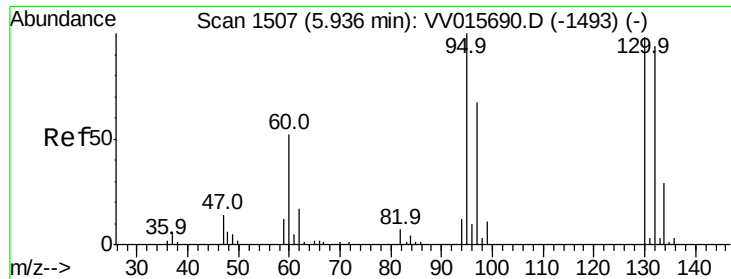
Acq: 25 Apr 2020 22:54

Tgt Ion: 78 Resp: 195402



Abundance Ion 78.10 (77.80 to 78.80): VV015690.D (-1229) (-)





#34

Trichloroethene

Concen: 215.451 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

Instrument :

MSVOA\_V

ClientSampleId :

ETKM8MS

Tot Ion: 95 Resp: 2065276

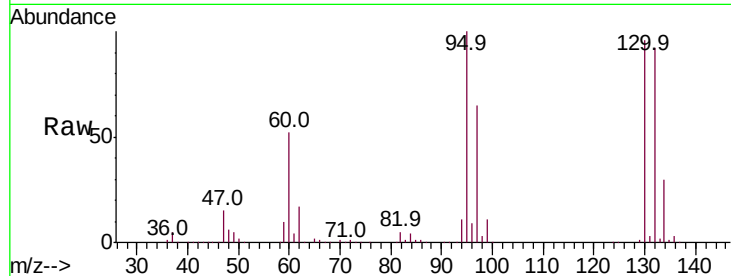
Ion Ratio Lower Upper

95 100

97 64.7 44.7 82.9

132 91.8 65.2 121.0

130 95.8 65.0 120.6

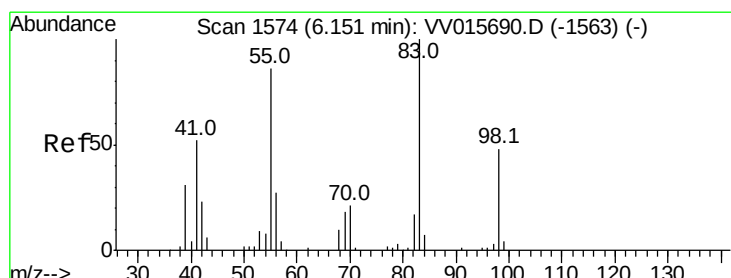
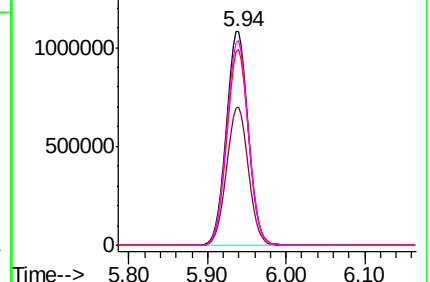
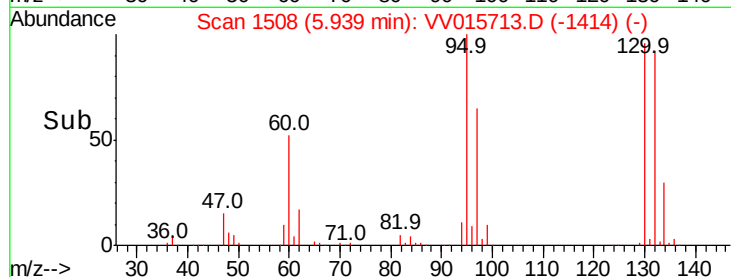


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 0.289 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

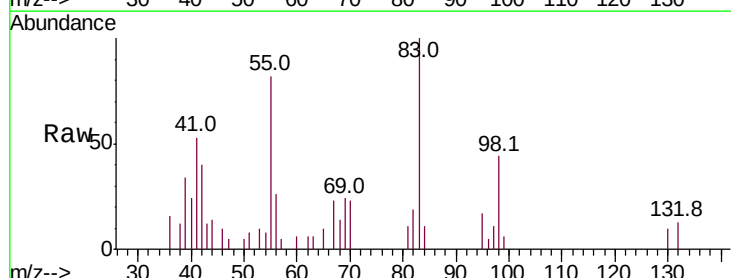
Tgt Ion: 83 Resp: 4253

Ion Ratio Lower Upper

83 100

55 91.7 66.6 99.8

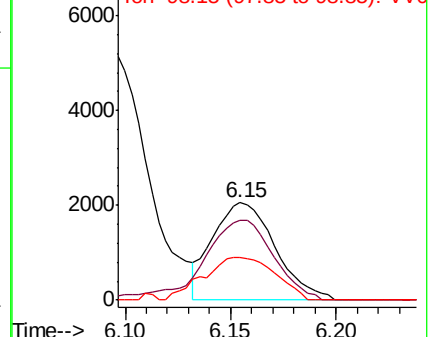
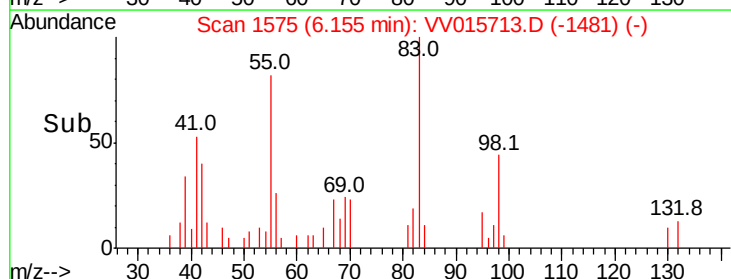
98 50.0 39.5 59.3

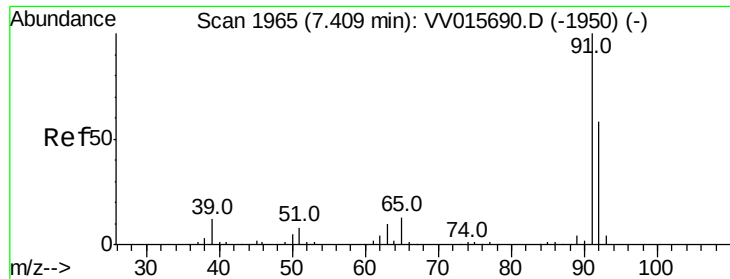


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#42

Toluene

Concen: 5.552 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

Instrument :

MSVOA\_V

ClientSampleId :

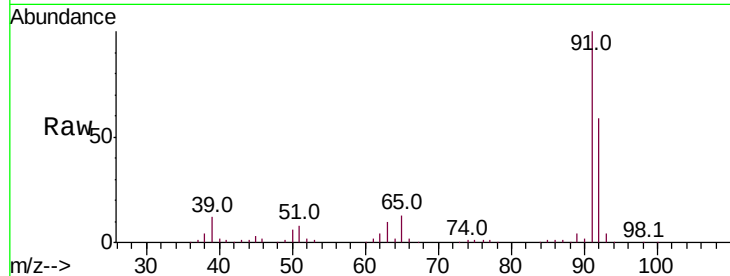
ETKM8MS

Tot Ion: 91 Resp: 205925

Ion Ratio Lower Upper

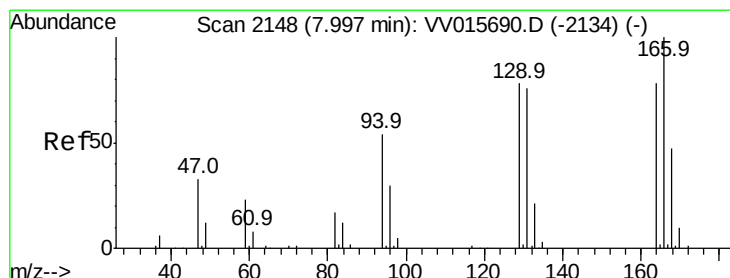
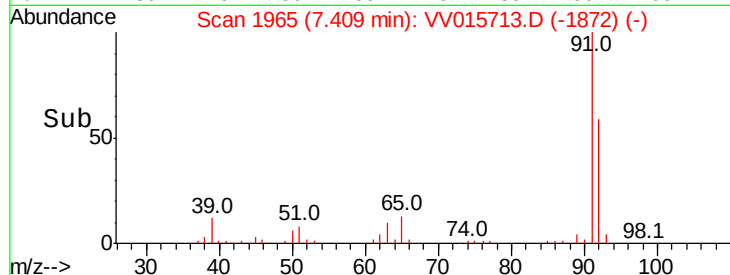
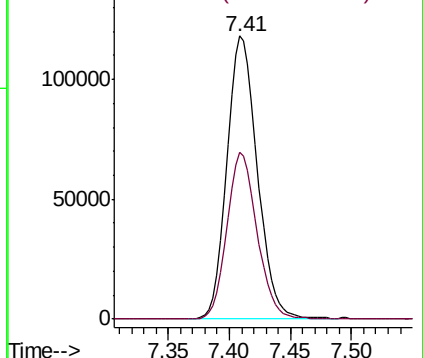
91 100

92 58.8 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VV015713.D (-1950) (-)

Ion 92.15 (91.85 to 92.85): VV015713.D (-1950) (-)



#47

Tetrachloroethene

Concen: 544.577 ug/L

RT: 8.00 min Scan# 2150

Delta R.T. 0.01 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

Tgt Ion:164 Resp: 3758698

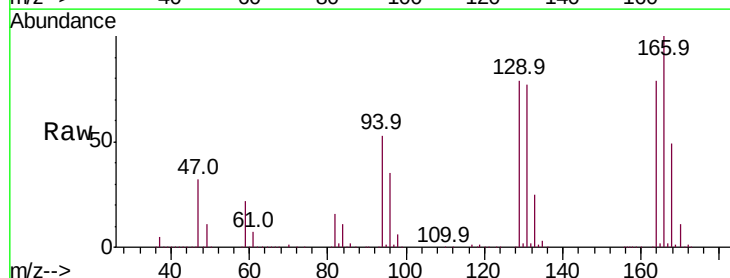
Ion Ratio Lower Upper

164 100

129 100.0 66.7 123.9

131 96.6 66.6 123.6

166 125.9 85.3 158.5

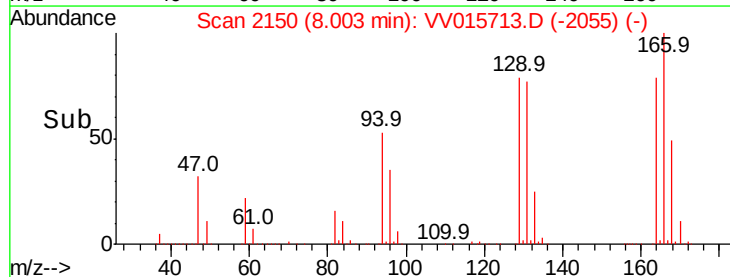
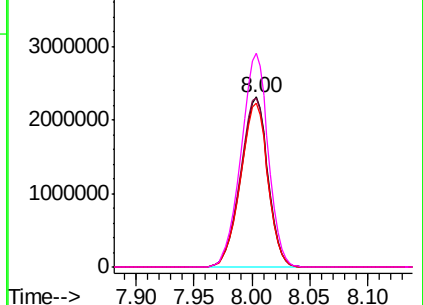


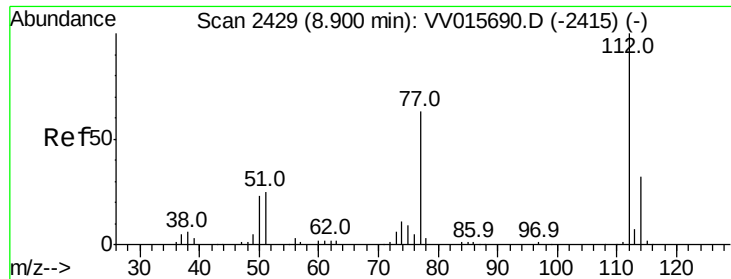
Abundance Ion 163.90 (163.60 to 164.60): VV015713.D (-2055) (-)

Ion 128.95 (128.65 to 129.65): VV015713.D (-2055) (-)

Ion 130.95 (130.65 to 131.65): VV015713.D (-2055) (-)

Ion 165.90 (165.60 to 166.60): VV015713.D (-2055) (-)





#51

Chlorobenzene

Concen: 5.437 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV015713.D

Acq: 25 Apr 2020 22:54

Instrument :

MSVOA\_V

ClientSampleId :

ETKM8MS

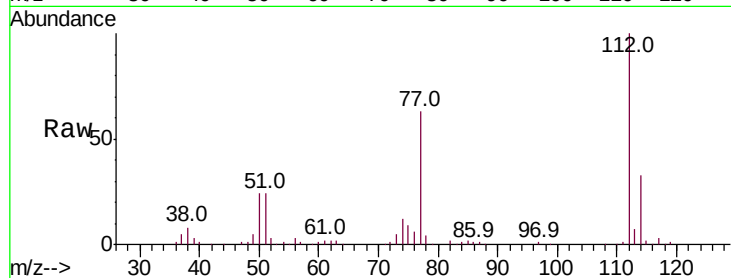
Tot Ion:112 Resp: 132108

Ion Ratio Lower Upper

112 100

114 33.3 21.6 40.2

77 62.7 48.9 73.3



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0

