

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042420\  
 Data File : VV015669.D  
 Acq On : 24 Apr 2020 13:24  
 Operator : SY/MD  
 Sample : L2416-01  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 ETKN9

Quant Time: Apr 25 00:53:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Apr 25 00:15:39 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 133530   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 129118   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 62737    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 62824    | 9.00     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 180.00%# |
| 7) Chloroethane-d5             | 1.58   | 69    | 32626    | 4.85     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.00%   |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 51282    | 3.36     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 67.20%   |
| 20) 2-Butanone-d5              | 3.90   | 46    | 106933   | 47.72    | ug/L | -0.03    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 95.44%   |
| 24) Chloroform-d               | 4.37   | 84    | 78263    | 4.81     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.20%   |
| 26) 1,2-Dichloroethane-d4      | 5.05   | 65    | 43343    | 4.76     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.20%   |
| 32) Benzene-d6                 | 5.07   | 84    | 143987   | 4.67     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.40%   |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 46148    | 4.69     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.80%   |
| 41) Toluene-d8                 | 7.33   | 98    | 130994   | 4.47     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.40%   |
| 43) trans-1,3-Dichloropropene- | 7.64   | 79    | 16448    | 4.32     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 86.40%   |
| 46) 2-Hexanone-d5              | 8.11   | 63    | 76868    | 41.39    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 82.78%   |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 33290    | 4.54     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 90.80%   |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 51394    | 4.82     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.40%   |

## Target Compounds

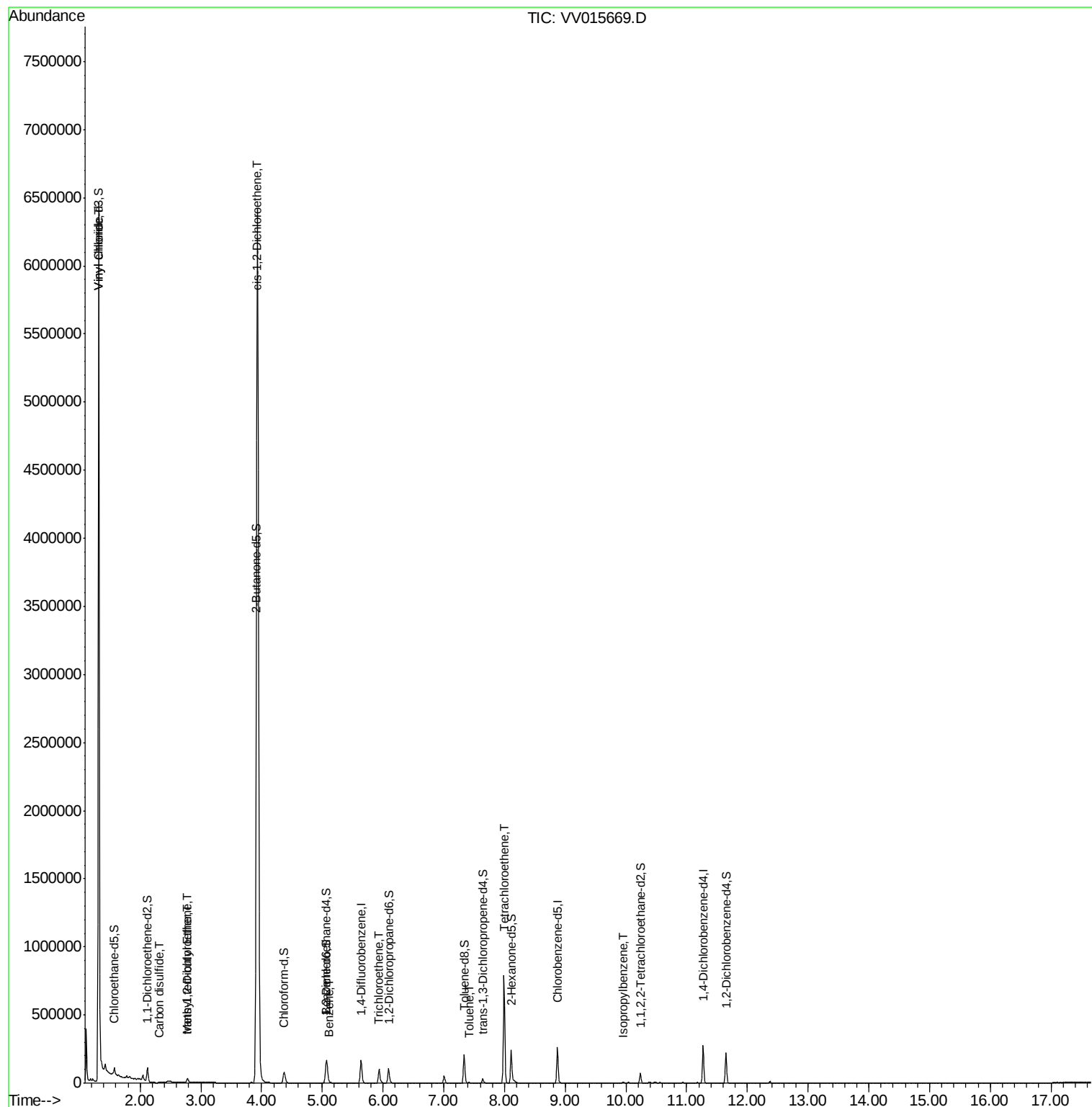
|                              |      |     |         |         | Ovalue    |
|------------------------------|------|-----|---------|---------|-----------|
| 5) Vinyl chloride            | 1.32 | 62  | 3879267 | 367.086 | ug/L 94   |
| 14) Carbon disulfide         | 2.31 | 76  | 4804    | 0.219   | ug/L 100  |
| 17) Methyl tert-butyl Ether  | 2.78 | 73  | 6347    | 0.291   | ug/L # 84 |
| 18) trans-1,2-Dichloroethene | 2.78 | 96  | 7706    | 0.886   | ug/L 98   |
| 22) cis-1,2-Dichloroethene   | 3.93 | 96  | 3360825 | 349.308 | ug/L 98   |
| 33) Benzene                  | 5.13 | 78  | 4708    | 0.128   | ug/L 100  |
| 34) Trichloroethene          | 5.94 | 95  | 34644   | 3.401   | ug/L 98   |
| 42) Toluene                  | 7.41 | 91  | 3547    | 0.090   | ug/L 91   |
| 47) Tetrachloroethene        | 7.99 | 164 | 157314  | 21.446  | ug/L 96   |
| 56) Isopropylbenzene         | 9.95 | 105 | 3092    | 0.068   | ug/L 95   |

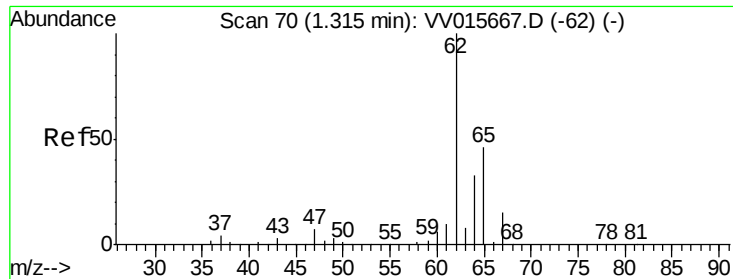
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Apr 25 00:15:39 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 367.086 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV015669.D

Acq: 24 Apr 2020 13:24

Instrument :

MSVOA\_V

ClientSampled :

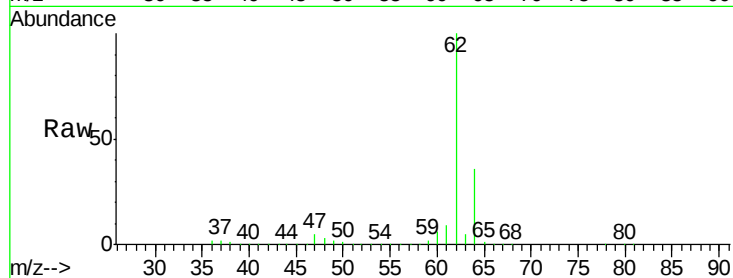
ETKN9

Tot Ion: 62 Resp: 3879267

Ion Ratio Lower Upper

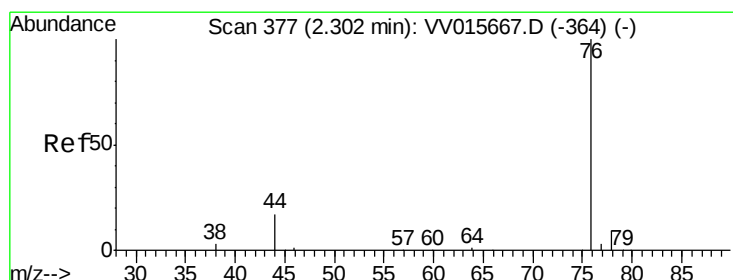
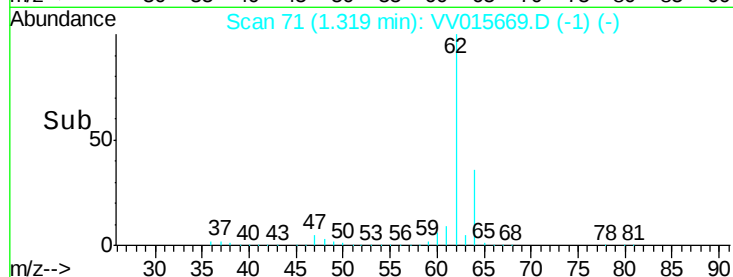
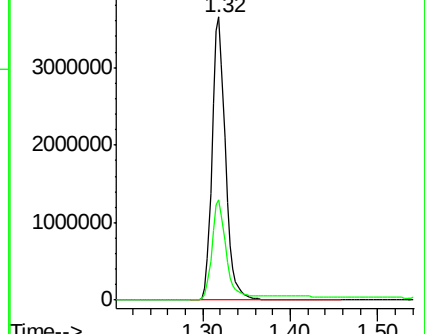
62 100

64 35.5 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#14

Carbon disulfide

Concen: 0.219 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.01 min

Lab File: VV015669.D

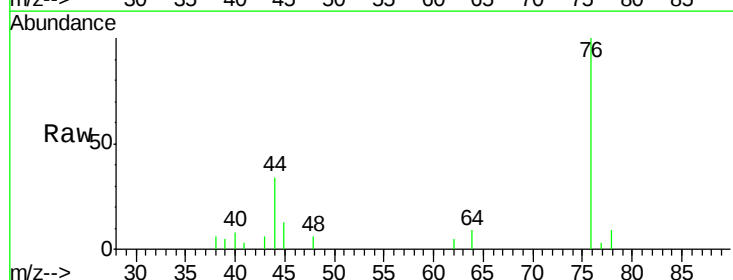
Acq: 24 Apr 2020 13:24

Tgt Ion: 76 Resp: 4804

Ion Ratio Lower Upper

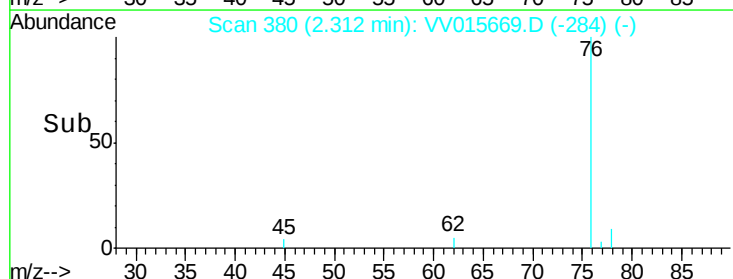
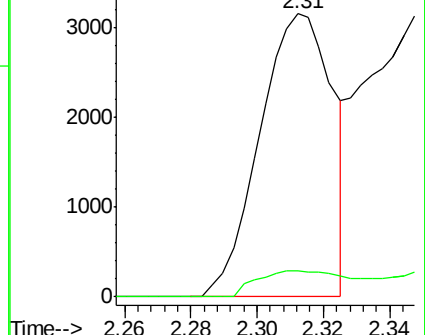
76 100

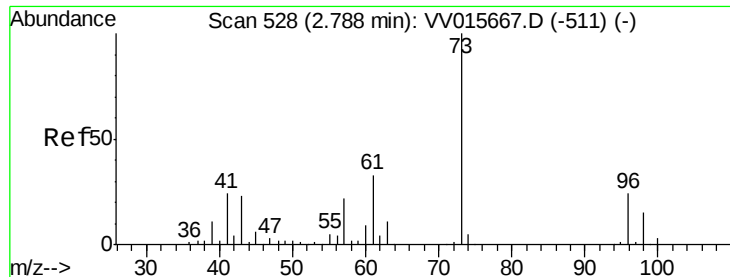
78 9.3 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



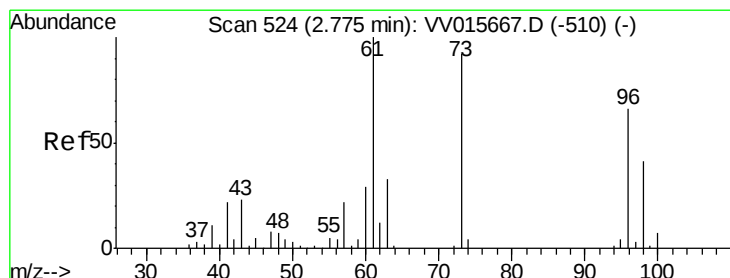
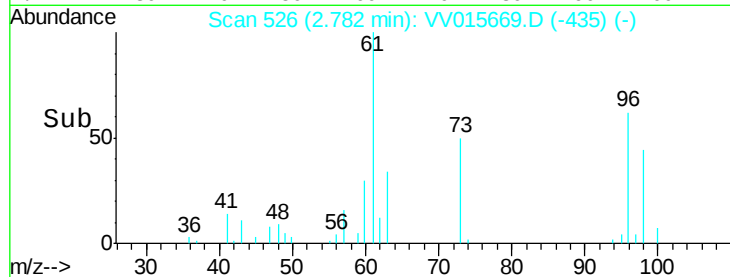
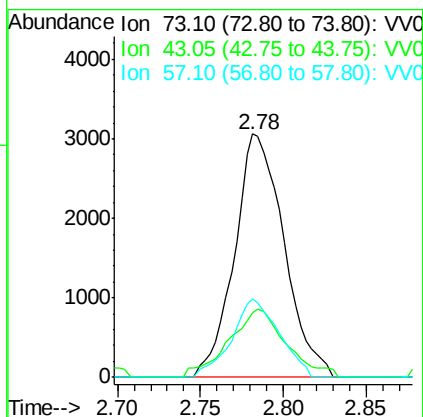
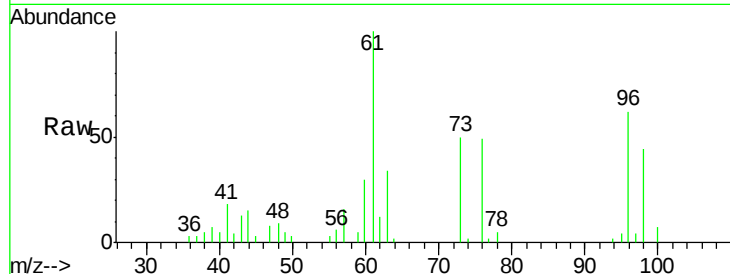


#17

Methyl tert-butyl Ether  
 Concen: 0.291 ug/L  
 RT: 2.78 min Scan# 526  
 Delta R.T. -0.01 min  
 Lab File: VV015669.D  
 Acq: 24 Apr 2020 13:24

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 ETKN9

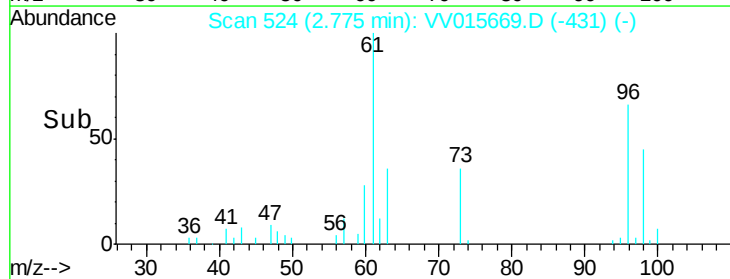
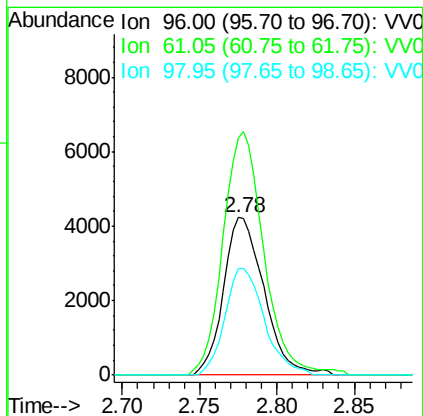
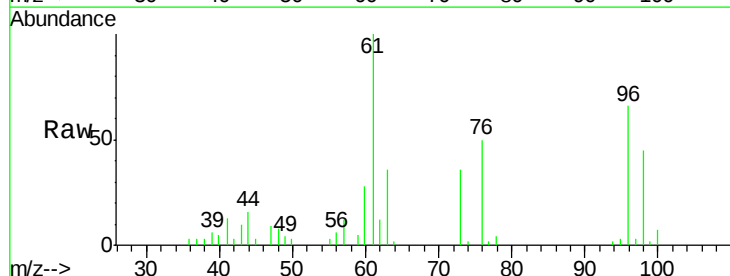
Tot Ion: 73 Resp: 6347  
 Ion Ratio Lower Upper  
 73 100  
 43 32.3 20.1 30.1#  
 57 30.8 17.8 26.8#

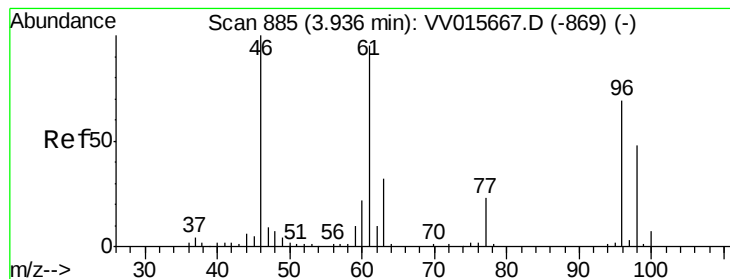


#18

trans-1,2-Dichloroethene  
 Concen: 0.886 ug/L  
 RT: 2.78 min Scan# 524  
 Delta R.T. 0.00 min  
 Lab File: VV015669.D  
 Acq: 24 Apr 2020 13:24

Tgt Ion: 96 Resp: 7706  
 Ion Ratio Lower Upper  
 96 100  
 61 150.8 105.5 195.9  
 98 67.6 44.2 82.0





#22

cis-1,2-Dichloroethene

Concen: 349.308 ug/L

RT: 3.93 min Scan# 884

Delta R.T. -0.00 min

Lab File: VV015669.D

Acq: 24 Apr 2020 13:24

Instrument :

MSVOA\_V

ClientSampleId :

ETKN9

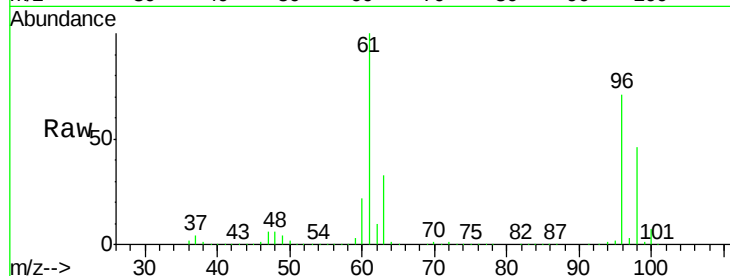
Tot Ion: 96 Resp: 3360825

Ion Ratio Lower Upper

96 100

61 140.4 96.4 179.0

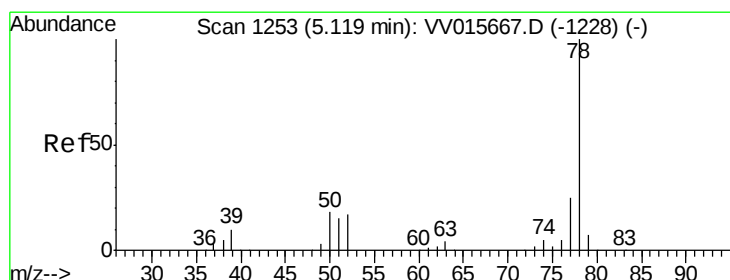
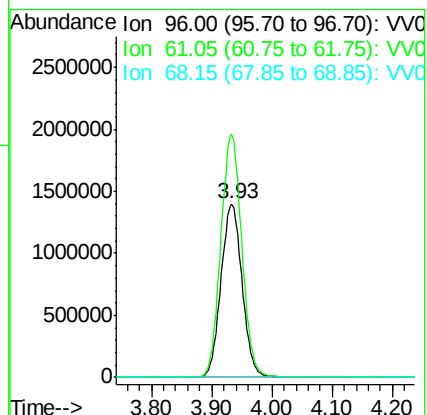
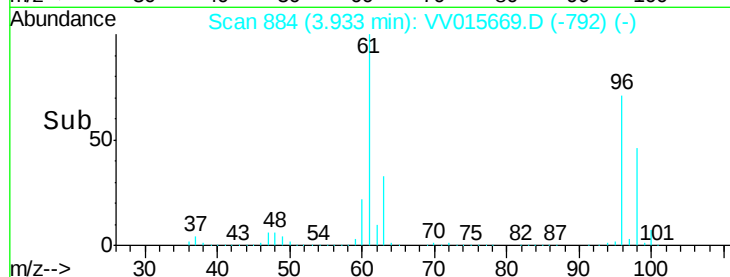
68 0.0 0.0 0.0



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



#33

Benzene

Concen: 0.128 ug/L

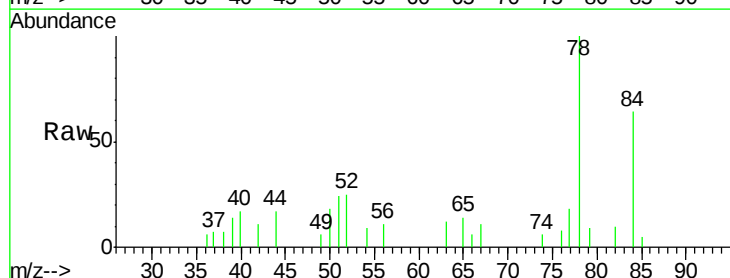
RT: 5.13 min Scan# 1255

Delta R.T. 0.01 min

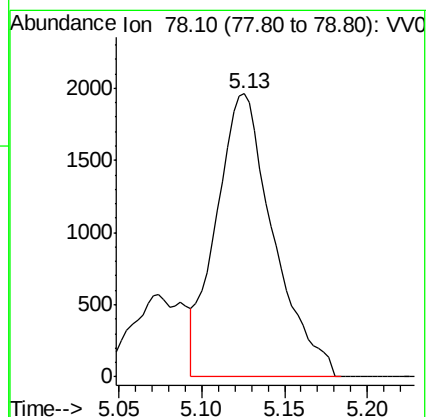
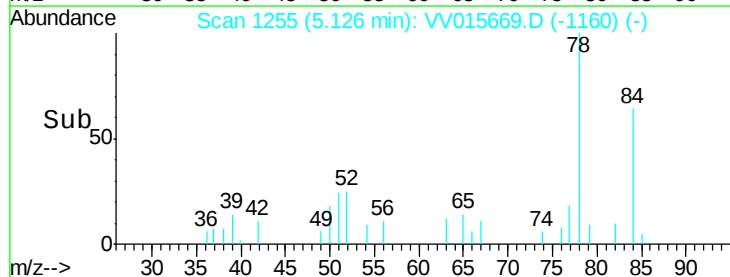
Lab File: VV015669.D

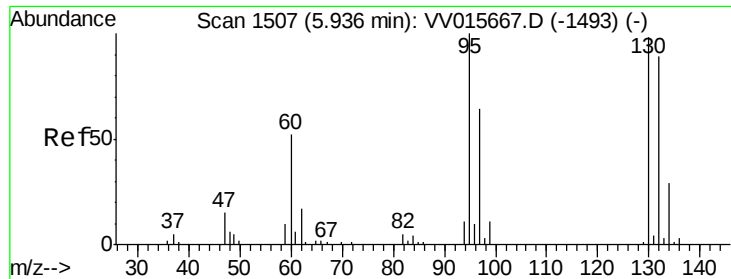
Acq: 24 Apr 2020 13:24

Tgt Ion: 78 Resp: 4708



Abundance Ion 78.10 (77.80 to 78.80): VV0

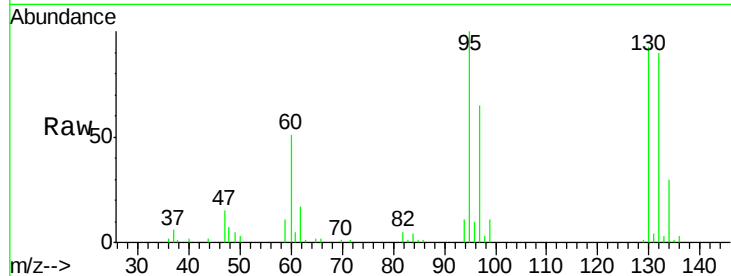




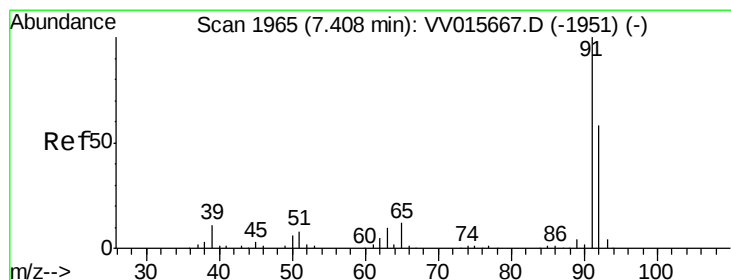
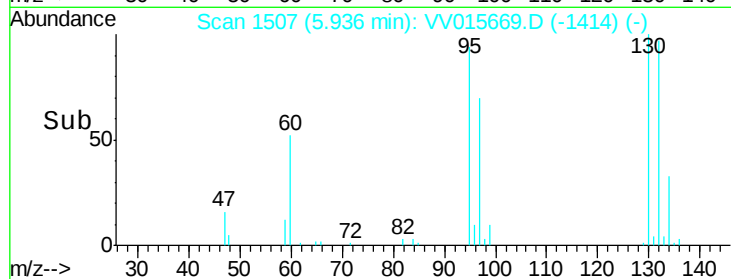
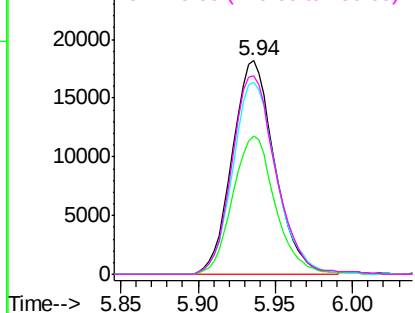
#34  
 Trichloroethene  
 Concen: 3.401 ug/L  
 RT: 5.94 min Scan# 1507  
 Delta R.T. 0.00 min  
 Lab File: VV015669.D  
 Acq: 24 Apr 2020 13:24

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
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Tot Ion: 95 Resp: 34644  
 Ion Ratio Lower Upper  
 95 100  
 97 64.8 44.7 82.9  
 132 90.1 65.2 121.0  
 130 93.0 65.0 120.6

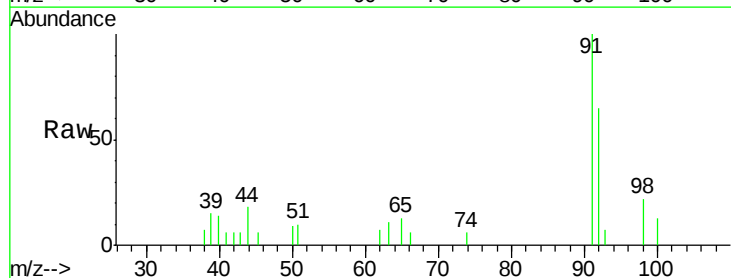


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 96.95 (96.65 to 97.65): VV0  
 Ion 131.95 (131.65 to 132.65): VV0  
 Ion 129.95 (129.65 to 130.65): VV0

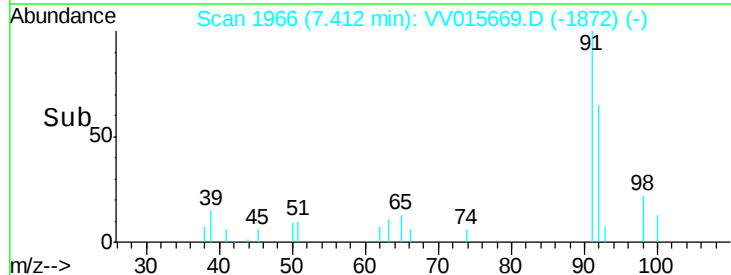
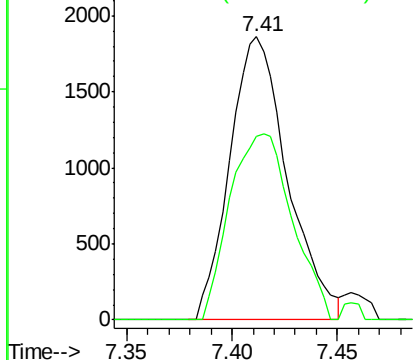


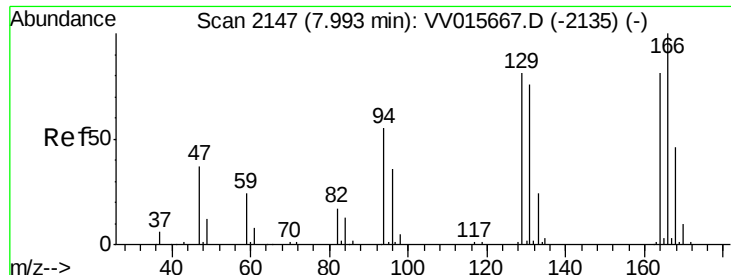
#42  
 Toluene  
 Concen: 0.090 ug/L  
 RT: 7.41 min Scan# 1966  
 Delta R.T. 0.00 min  
 Lab File: VV015669.D  
 Acq: 24 Apr 2020 13:24

Tgt Ion: 91 Resp: 3547  
 Ion Ratio Lower Upper  
 91 100  
 92 64.6 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VV0  
 Ion 92.15 (91.85 to 92.85): VV0





#47

Tetrachloroethene

Concen: 21.446 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VV015669.D

Acq: 24 Apr 2020 13:24

Instrument :  
MSVOA\_V  
ClientSampleId :  
ETKN9

Tot Ion:164 Resp: 157314

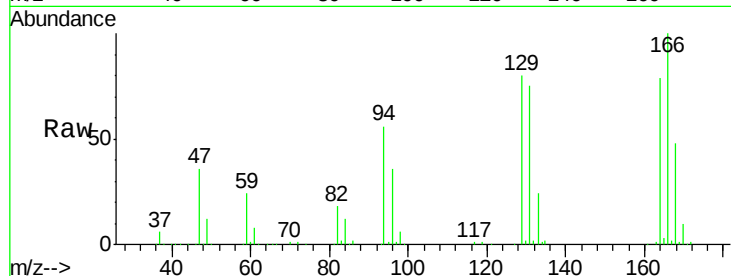
Ion Ratio Lower Upper

164 100

129 101.7 66.7 123.9

131 95.2 66.6 123.6

166 127.3 85.3 158.5

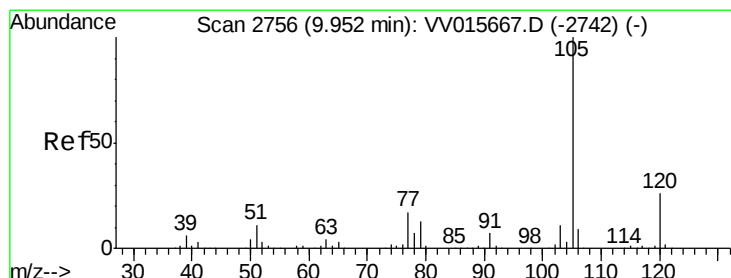
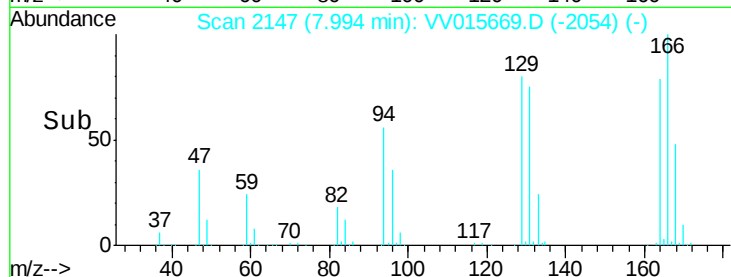
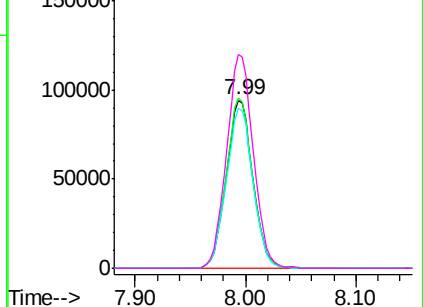


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#56

Isopropylbenzene

Concen: 0.068 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV015669.D

Acq: 24 Apr 2020 13:24

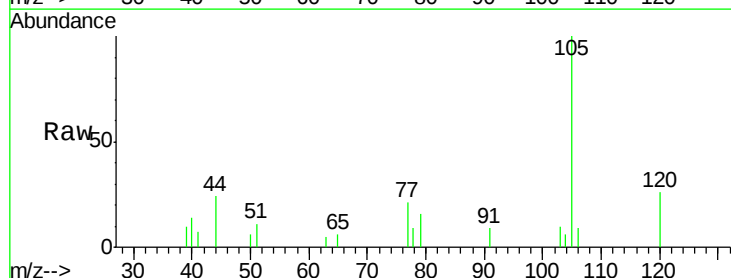
Tgt Ion:105 Resp: 3092

Ion Ratio Lower Upper

105 100

120 24.5 20.7 31.1

77 20.7 13.9 20.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VV0

