

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111220\  
 Data File : VW017191.D  
 Acq On : 12 Nov 2020 17:42  
 Operator : SY/VA  
 Sample : VIBLK05  
 Misc : 5.00G/10ML/MSVOA W/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VIBLK05

Quant Time: Nov 13 04:21:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 13 04:11:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 434029   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 403974   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 200360   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 119880   | 21.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 87.72%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 98128    | 23.29    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.16%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 162236   | 16.59    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 66.36%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 73395    | 60.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 120.06% |
| 24) Chloroform-d               | 7.65   | 84    | 257383   | 25.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 101.60% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 143332   | 28.45    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 113.80% |
| 29) Benzene-d6                 | 8.27   | 84    | 491586   | 23.90    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 95.60%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 139789   | 24.57    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 98.28%  |
| 37) Toluene-d8                 | 10.32  | 98    | 471439   | 24.30    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 97.20%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 65168    | 25.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 101.60% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 62116    | 62.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 125.10% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 138532   | 27.95    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 111.80% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 202877   | 28.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 114.96% |

## Target Compounds

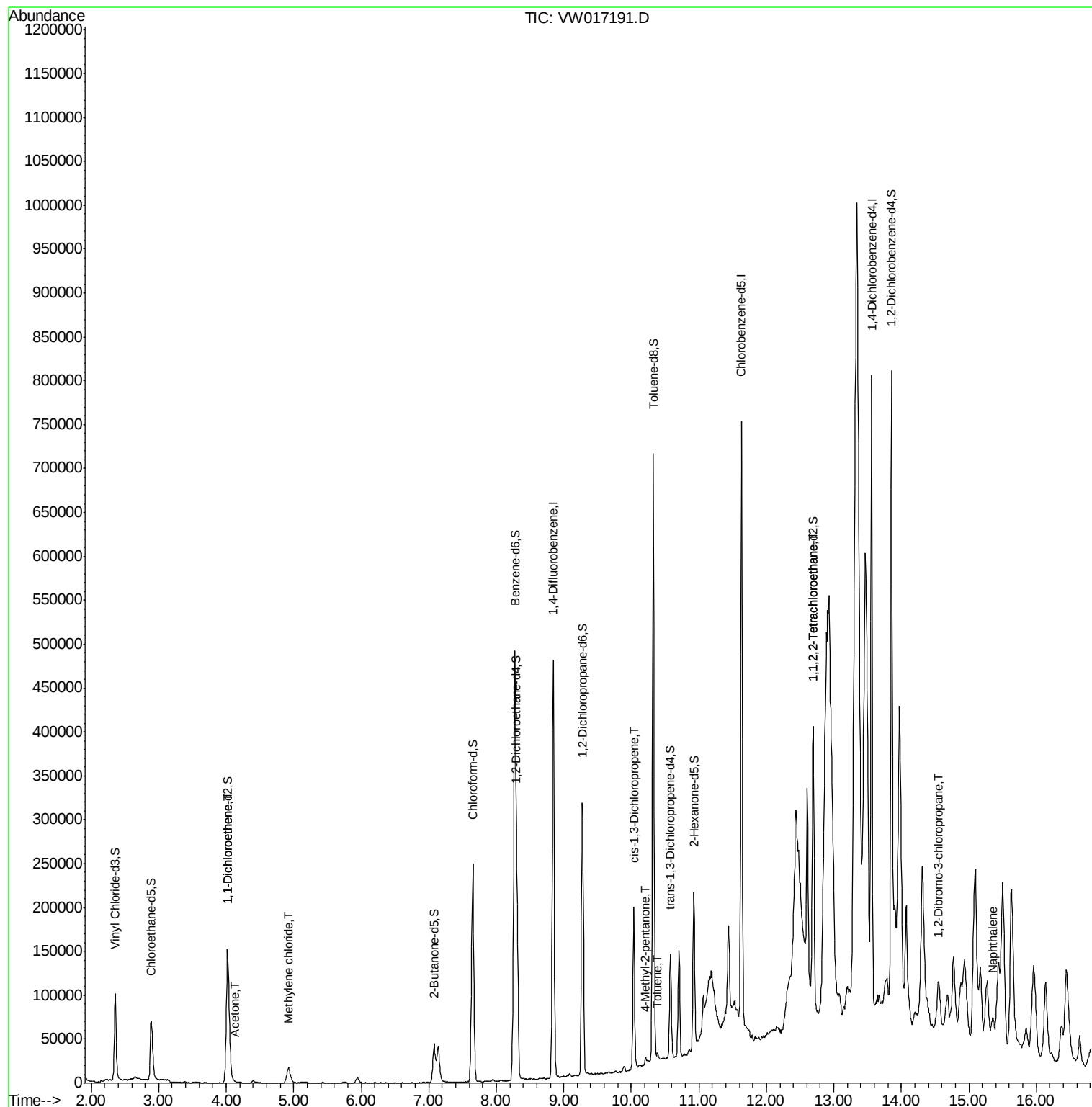
|                                |       |     |       |              | Ovalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 12) 1,1-Dichloroethene         | 4.01  | 96  | 1698  | 0.315 ug/L # | 1      |
| 13) Acetone                    | 4.14  | 43  | 1388  | 1.696 ug/L   | 68     |
| 16) Methylene chloride         | 4.92  | 84  | 16969 | 2.900 ug/L   | 89     |
| 42) cis-1,3-Dichloropropene    | 10.04 | 75  | 5227  | 0.666 ug/L # | 46     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 5503  | 1.799 ug/L   | 93     |
| 44) Toluene                    | 10.39 | 91  | 5479  | 0.235 ug/L   | 89     |
| 58) 1,1,2,2-Tetrachloroethane  | 12.69 | 83  | 4275  | 0.866 ug/L # | 54     |
| 66) 1,2-Dibromo-3-chloropropan | 14.54 | 75  | 1888  | 2.541 ug/L # | 43     |
| 69) Naphthalene                | 15.36 | 128 | 6534  | 0.484 ug/L # | 89     |

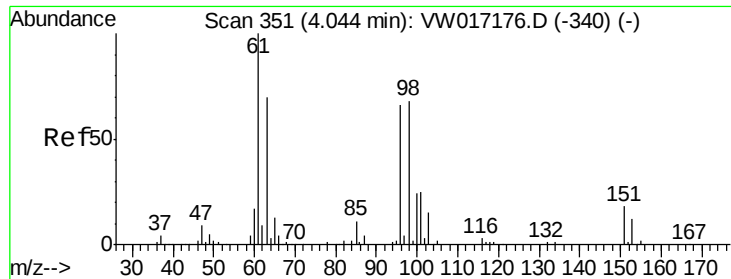
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Nov 13 04:11:30 2020  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 0.315 ug/L

RT: 4.01 min Scan# 346

Delta R.T. -0.03 min

Lab File: VW017191.D

Acq: 12 Nov 2020 17:42

Instrument :

MSVOA\_W

ClientSampleId :

VIBLK05

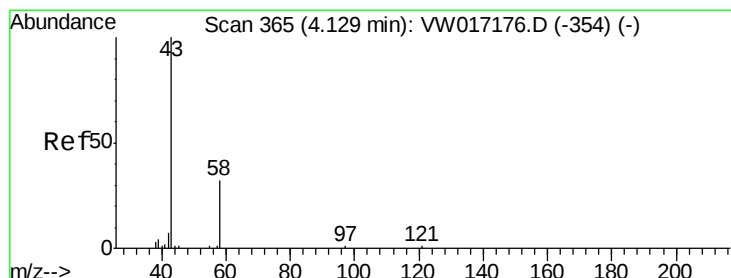
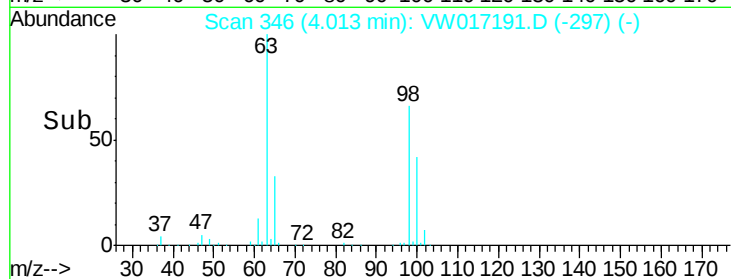
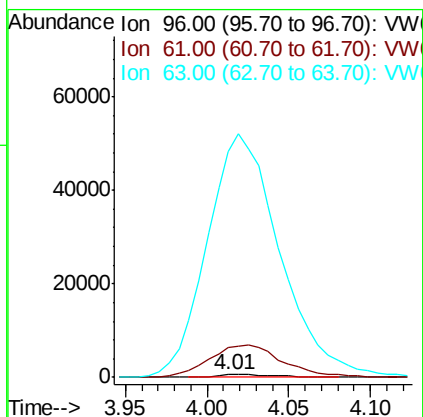
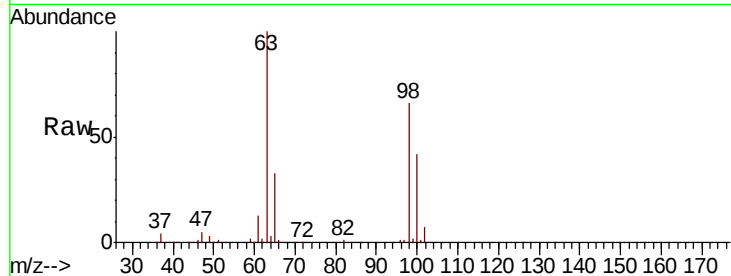
Tot Ion: 96 Resp: 1698

Ion Ratio Lower Upper

96 100

61 1020.8 103.8 192.8#

63 7719.7 84.4 156.7#



#13

Acetone

Concen: 1.696 ug/L

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW017191.D

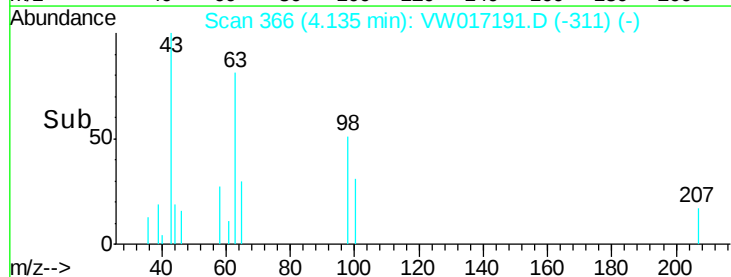
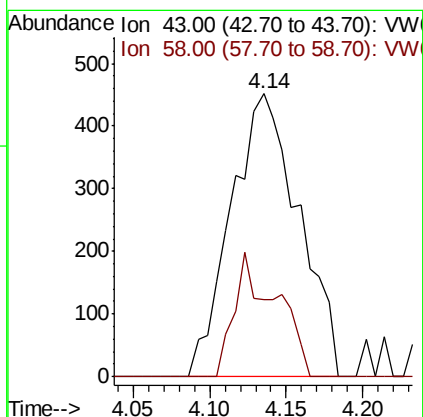
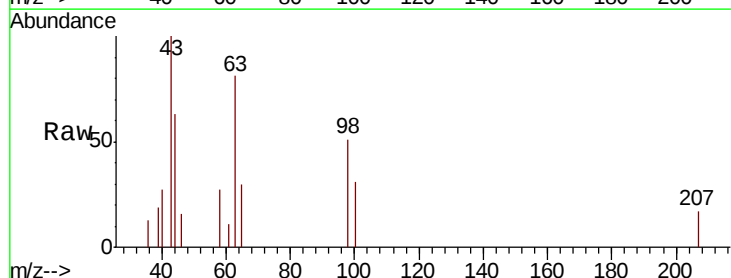
Acq: 12 Nov 2020 17:42

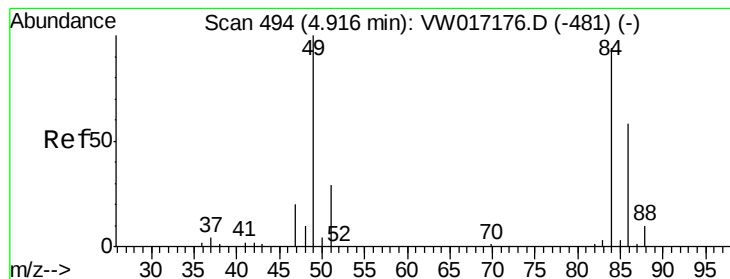
Tgt Ion: 43 Resp: 1388

Ion Ratio Lower Upper

43 100

58 16.3 0.0 69.2





#16

Methvlene chloride

Concen: 2.900 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW017191.D

Acq: 12 Nov 2020 17:42

Instrument :

MSVOA\_W

ClientSampleId :

VIBLK05

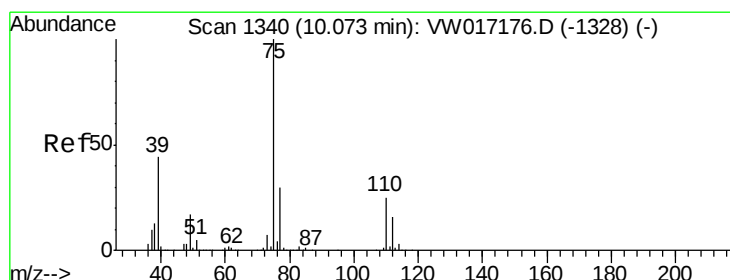
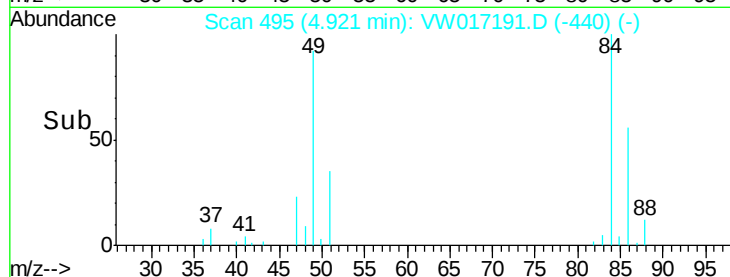
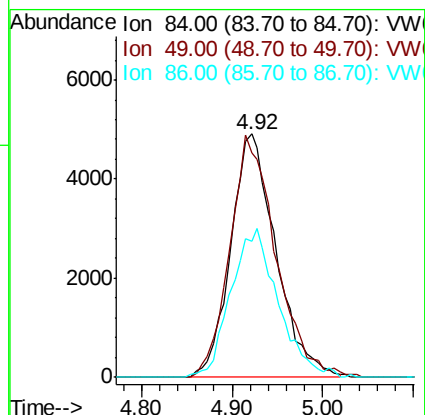
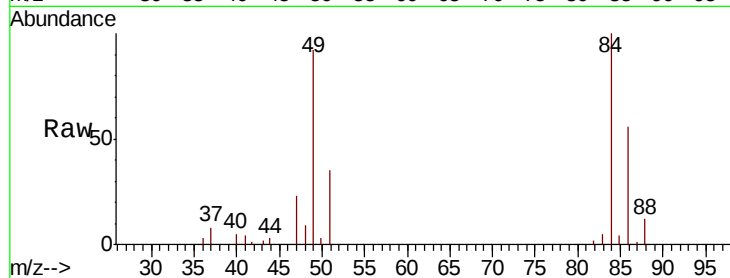
Tot Ion: 84 Resp: 16969

Ion Ratio Lower Upper

84 100

49 92.2 72.3 134.3

86 55.7 45.1 83.7



#42

cis-1,3-Dichloropropene

Concen: 0.666 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW017191.D

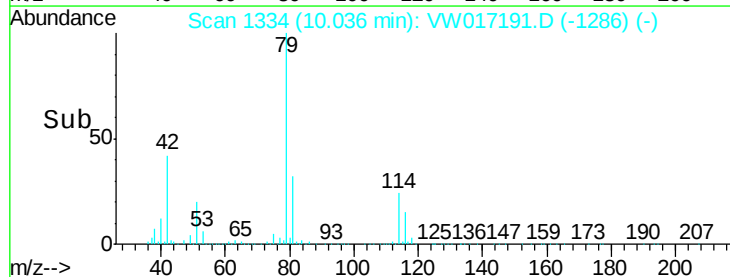
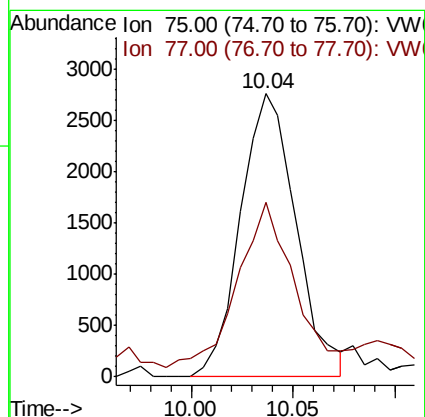
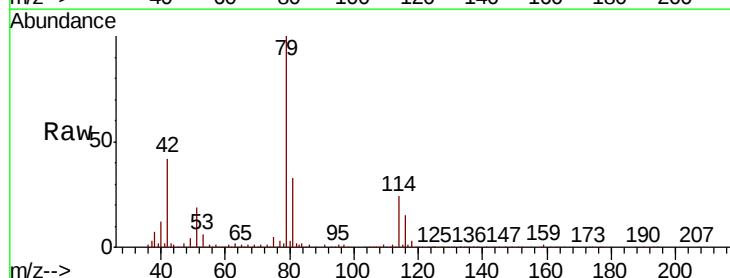
Acq: 12 Nov 2020 17:42

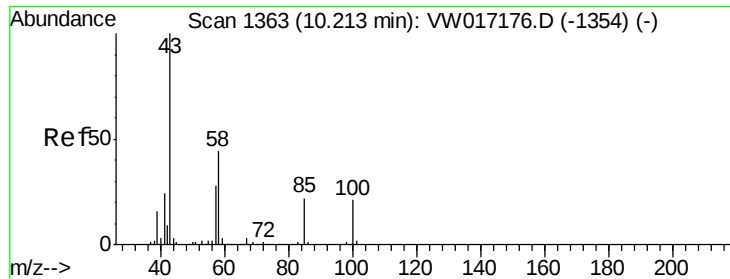
Tgt Ion: 75 Resp: 5227

Ion Ratio Lower Upper

75 100

77 61.6 22.0 41.0#

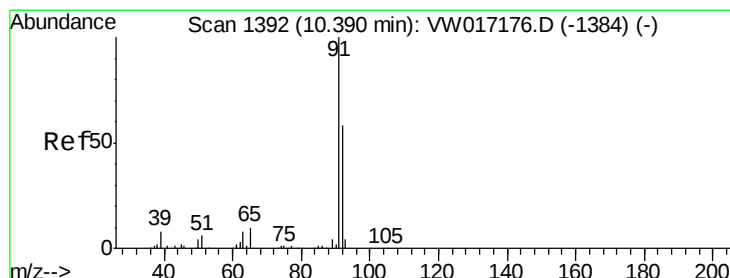
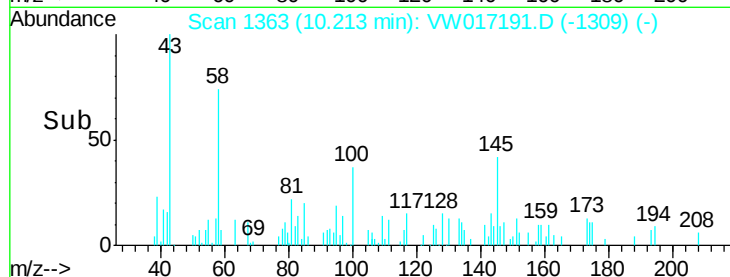
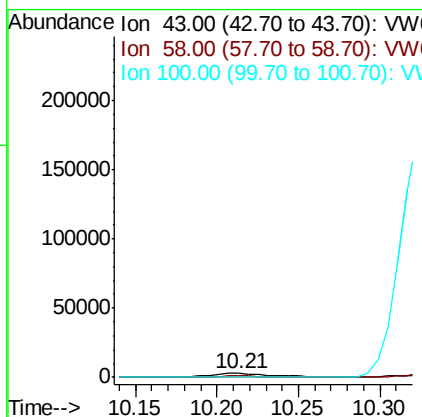
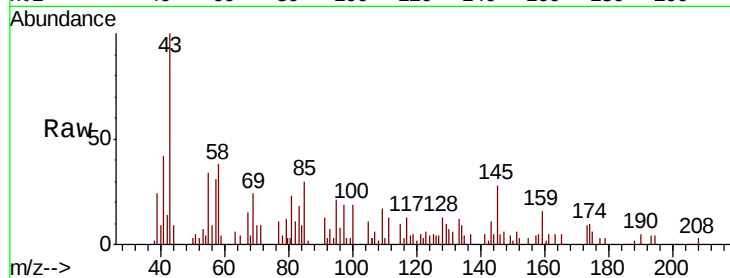




#43  
4-Methyl-2-pentanone  
Concen: 1.799 ug/L  
RT: 10.21 min Scan# 1363  
Delta R.T. -0.00 min  
Lab File: VW017191.D  
Acq: 12 Nov 2020 17:42

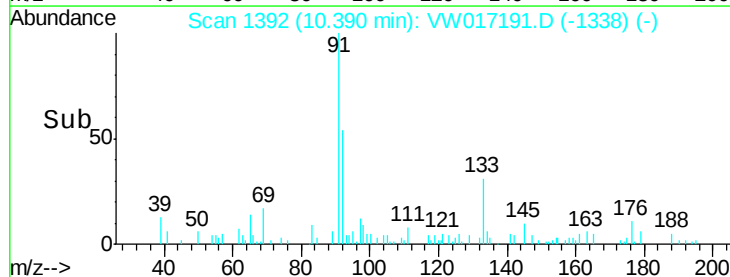
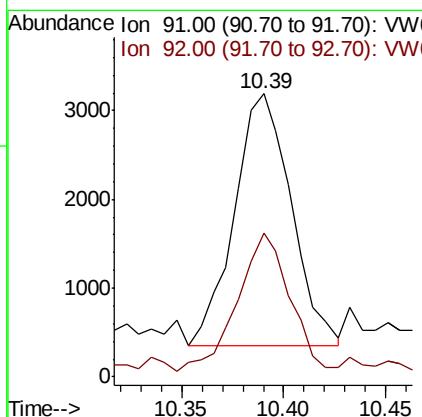
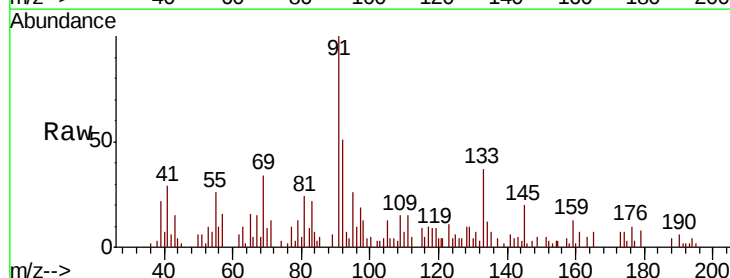
Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK05

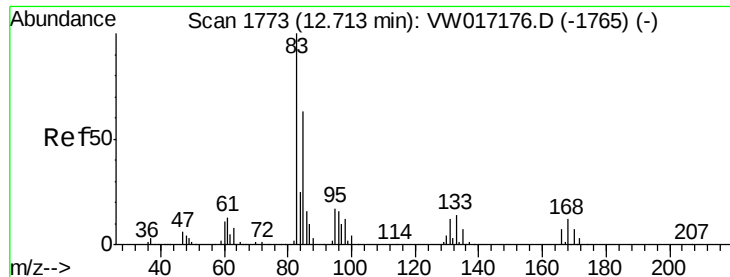
Tot Ion: 43 Resp: 5503  
Ion Ratio Lower Upper  
43 100  
58 38.3 35.0 52.6  
100 18.6 16.6 24.8



#44  
Toluene  
Concen: 0.235 ug/L  
RT: 10.39 min Scan# 1392  
Delta R.T. -0.00 min  
Lab File: VW017191.D  
Acq: 12 Nov 2020 17:42

Tgt Ion: 91 Resp: 5479  
Ion Ratio Lower Upper  
91 100  
92 50.7 41.4 76.8





#58

1,1,2,2-Tetrachloroethane

Concen: 0.866 ug/L

RT: 12.69 min Scan# 1769

Delta R.T. -0.02 min

Lab File: VW017191.D

Acq: 12 Nov 2020 17:42

Instrument :

MSVOA\_W

ClientSampleId :

VIBLK05

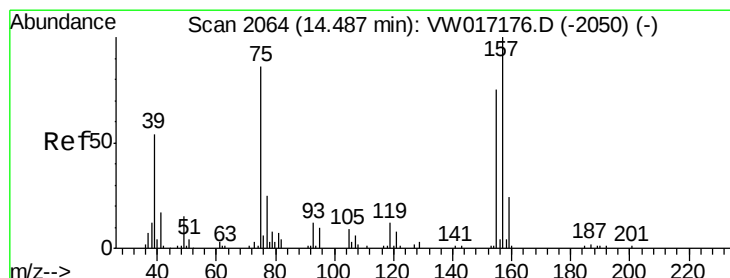
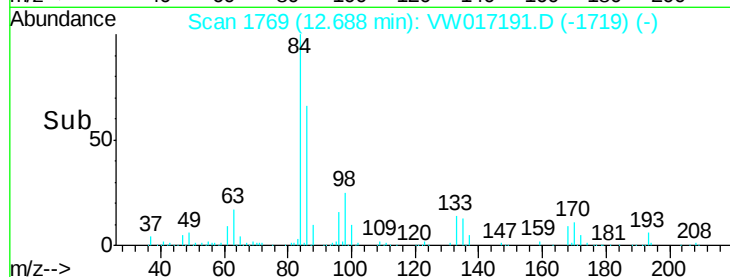
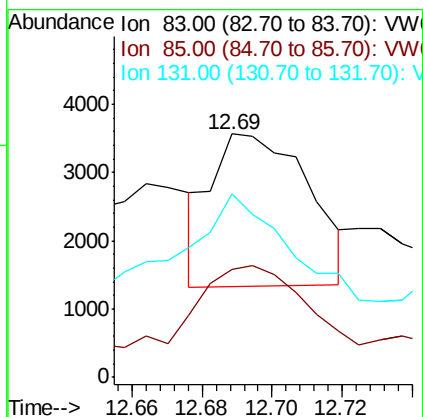
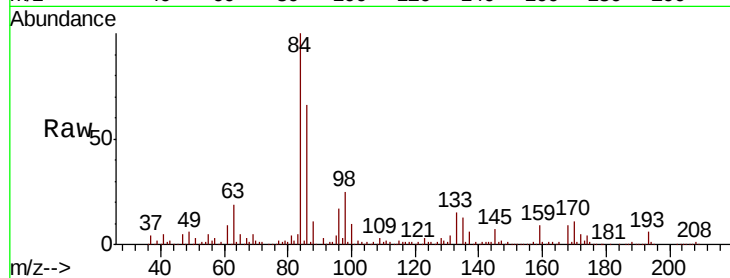
Tot Ion: 83 Resp: 4275

Ion Ratio Lower Upper

83 100

85 44.4 44.9 83.5#

131 75.2 8.8 13.2#



#66

1,2-Dibromo-3-chloropropane

Concen: 2.541 ug/L

RT: 14.54 min Scan# 2073

Delta R.T. 0.05 min

Lab File: VW017191.D

Acq: 12 Nov 2020 17:42

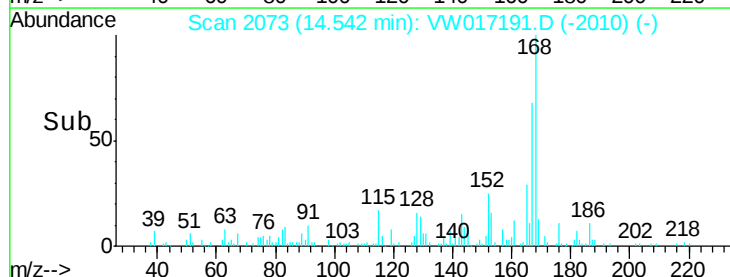
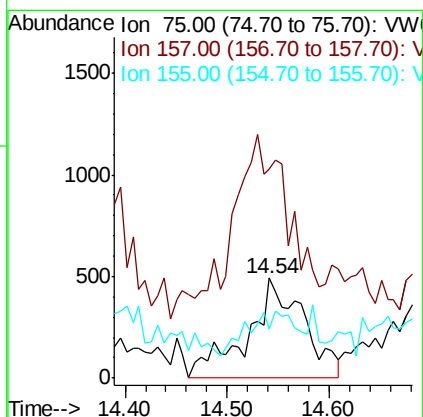
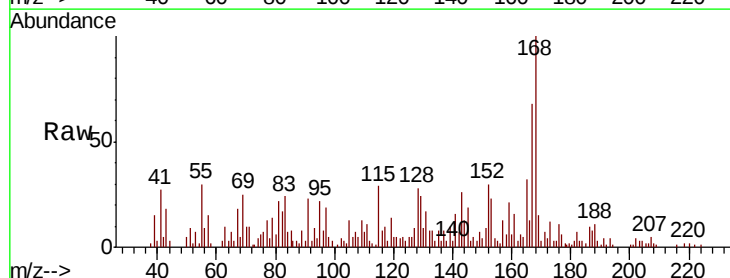
Tgt Ion: 75 Resp: 1888

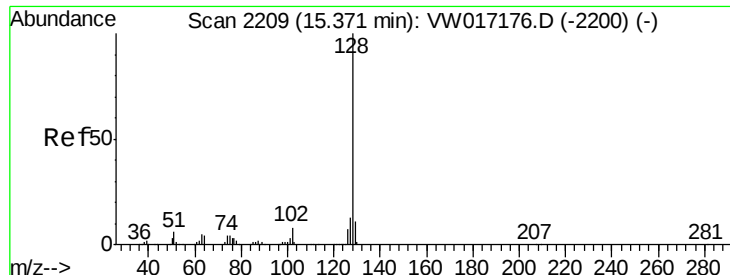
Ion Ratio Lower Upper

75 100

157 209.4 108.2 162.4#

155 48.9 79.1 118.7#





#69

Naphthalene

Concen: 0.484 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

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ClientSampleId :

VIBLK05

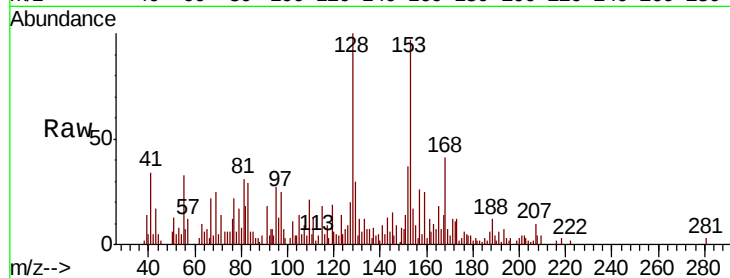
Tot Ion:128 Resp: 6534

Ion Ratio Lower Upper

128 100

129 7.0 8.6 12.8#

127 17.2 10.2 15.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

