

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112420\  
 Data File : VW017483.D  
 Acq On : 24 Nov 2020 19:29  
 Operator : SY/VA  
 Sample : L4853-03RE  
 Misc : 4.17G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Nov 25 01:48:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM112420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 25 01:45:49 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 500664   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 367405   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 105174   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 153652   | 23.33    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.32%  |
| 7) Chloroethane-d5             | 2.90   | 69    | 125445   | 22.57    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 90.28%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 247358   | 16.87    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 67.48%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 68197    | 49.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 98.20%  |
| 24) Chloroform-d               | 7.65   | 84    | 318469   | 22.39    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 89.56%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 168145   | 24.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 96.36%  |
| 29) Benzene-d6                 | 8.27   | 84    | 624248   | 27.63    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 110.52% |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 179330   | 28.69    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 114.76% |
| 37) Toluene-d8                 | 10.33  | 98    | 499947   | 24.30    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 97.20%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 69995    | 25.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 100.24% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 47630    | 61.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 123.10% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 107687   | 23.94    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 95.76%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 88656    | 22.77    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 91.08%  |

## Target Compounds

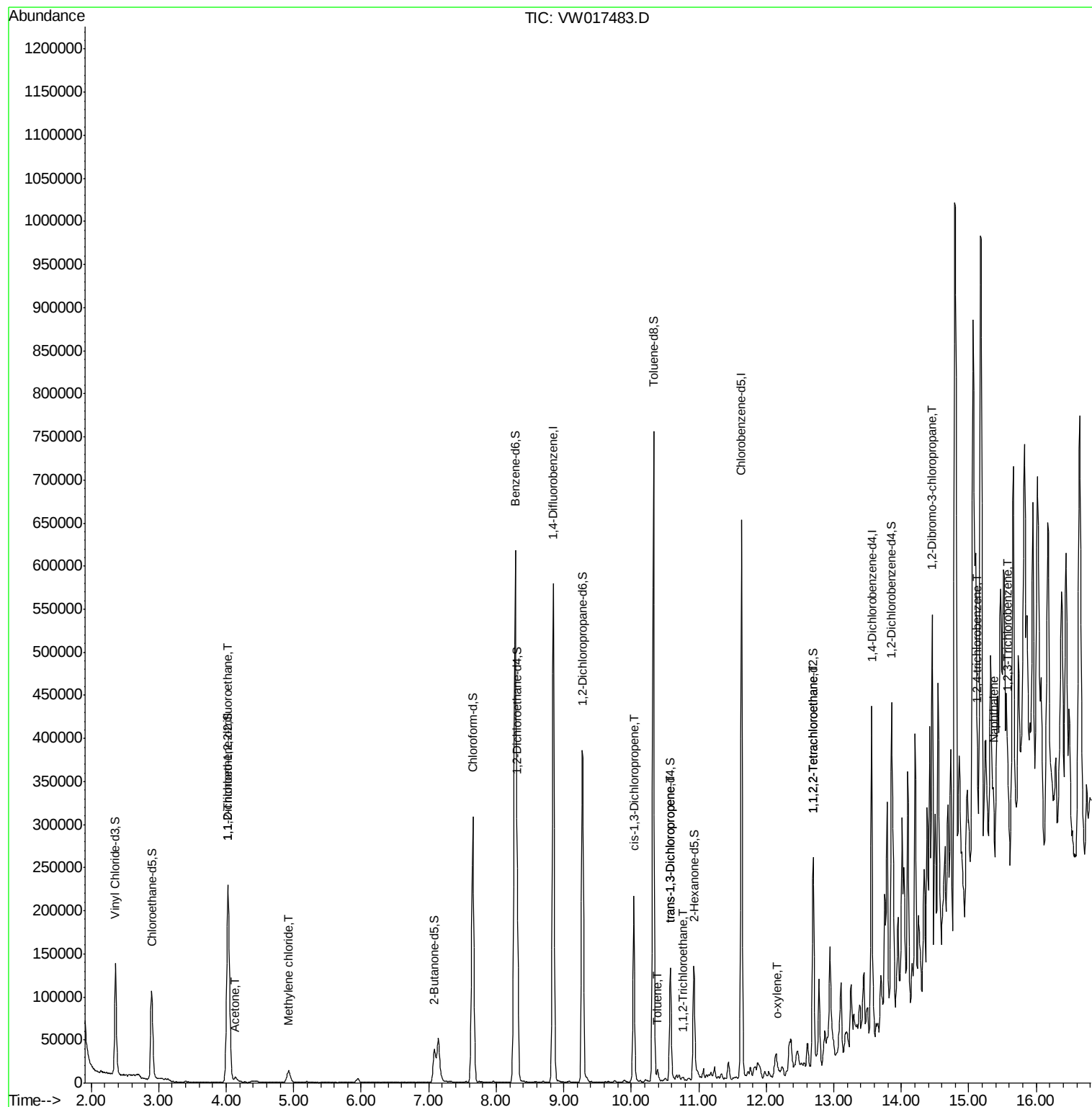
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.03  | 101  | 2209     | 0.310 | ug/L # | 35     |
| 13) Acetone                    | 4.14  | 43   | 9729     | 7.280 | ug/L   | 94     |
| 16) Methylene chloride         | 4.92  | 84   | 5500     | 0.732 | ug/L   | 93     |
| 42) cis-1,3-Dichloropropene    | 10.04 | 75   | 5653     | 0.704 | ug/L # | 78     |
| 44) Toluene                    | 10.39 | 91   | 8919     | 0.375 | ug/L   | 97     |
| 45) trans-1,3-Dichloropropene  | 10.58 | 75   | 3409     | 0.495 | ug/L   | 92     |
| 46) 1,1,2-Trichloroethane      | 10.77 | 97   | 1094     | 0.281 | ug/L # | 29     |
| 55) o-xylene                   | 12.17 | 106  | 2640     | 0.276 | ug/L   | 87     |
| 58) 1,1,2,2-Tetrachloroethane  | 12.69 | 83   | 2877     | 0.688 | ug/L # | 70     |
| 66) 1,2-Dibromo-3-chloropropan | 14.46 | 75   | 2283     | 6.003 | ug/L # | 1      |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180  | 2154     | 0.548 | ug/L # | 1      |
| 69) Naphthalene                | 15.36 | 128  | 48021    | 7.919 | ug/L # | 94     |
| 70) 1,2,3-Trichlorobenzene     | 15.58 | 180  | 2269     | 0.693 | ug/L # | 85     |

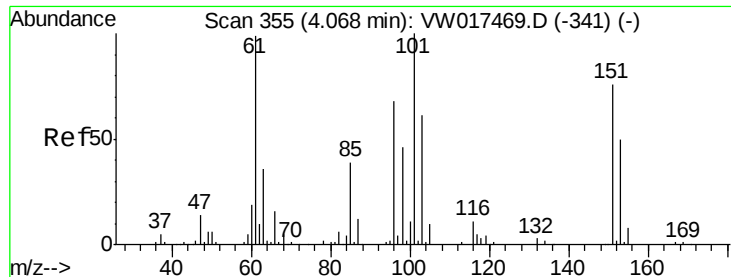
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW112420\  
Data File : VW017483.D  
Acq On : 24 Nov 2020 19:29  
Operator : SY/VA  
Sample : L4853-03RE  
Misc : 4.17G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Nov 25 01:48:39 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM112420S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Nov 25 01:45:49 2020  
Response via : Initial Calibration





#11

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

Concen: 0.310 ug/L

RT: 4.03 min Scan# 348

Delta R.T. -0.04 min

Lab File: VW017483.D

Acq: 24 Nov 2020 19:29

Instrument :

MSVOA\_W

ClientSampled :

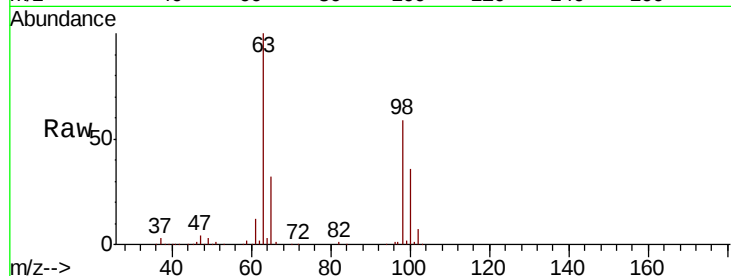
Tot Ion:101 Resp: 2209

Ion Ratio Lower Upper

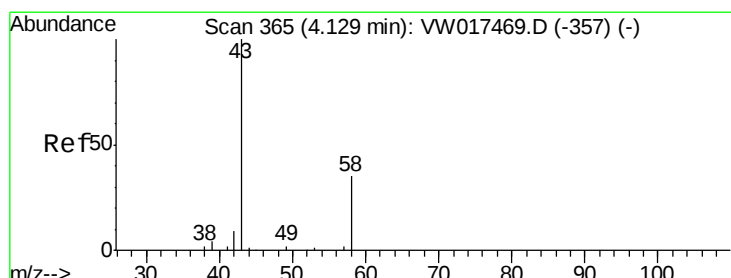
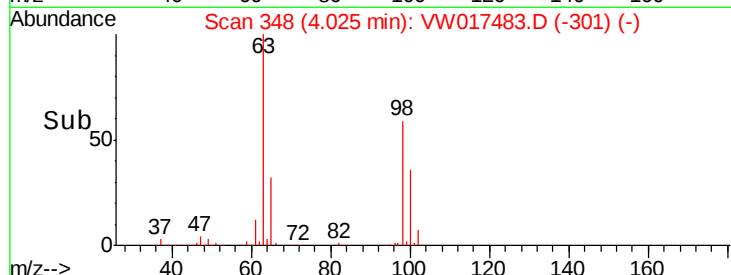
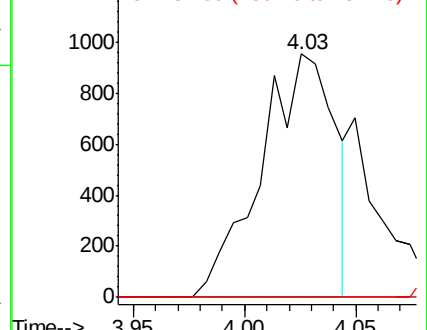
101 100

85 0.0 34.2 51.4#

151 0.0 30.4 45.6#



Abundance Ion 101.00 (100.70 to 101.70): V  
Ion 85.00 (84.70 to 85.70): VW  
Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 7.280 ug/L

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW017483.D

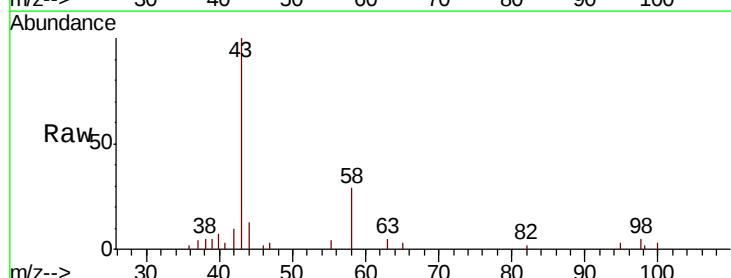
Acq: 24 Nov 2020 19:29

Tgt Ion: 43 Resp: 9729

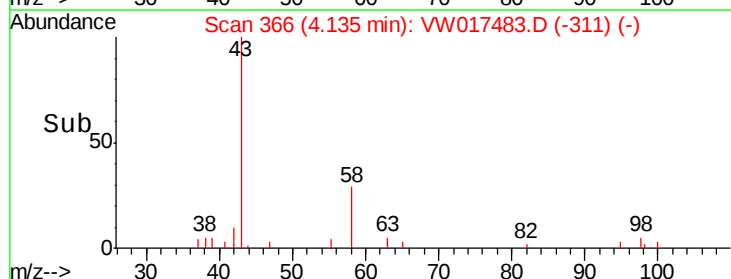
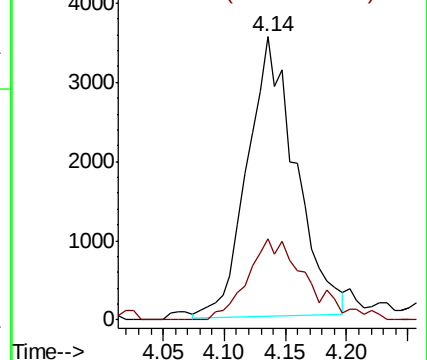
Ion Ratio Lower Upper

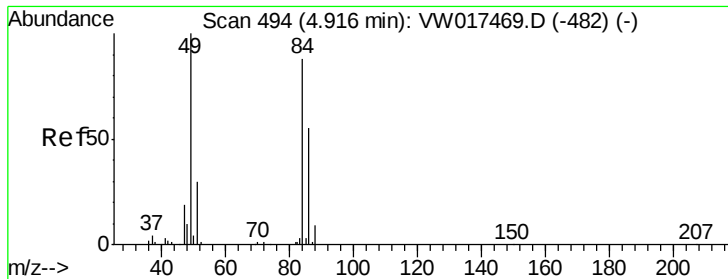
43 100

58 31.0 0.0 68.4



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW

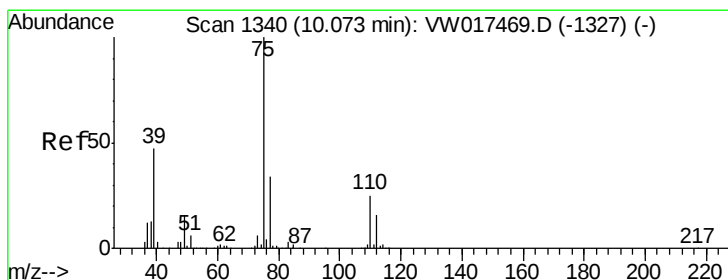
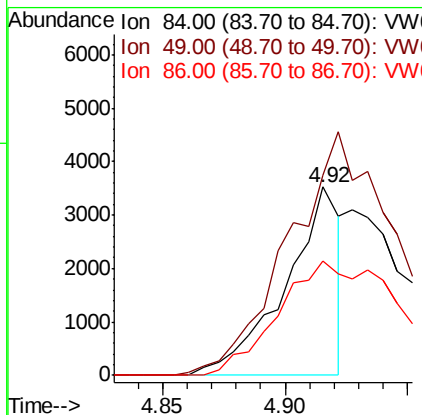
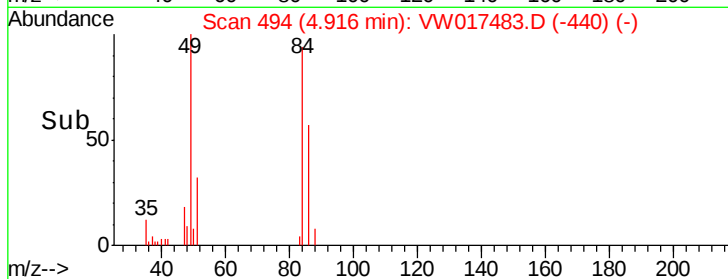
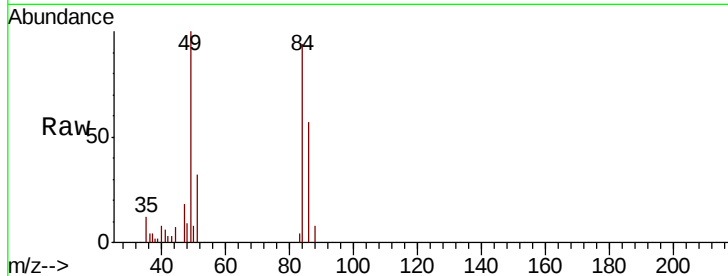




#16  
Methylene chloride  
Concen: 0.732 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. -0.00 min  
Lab File: VW017483.D  
Acq: 24 Nov 2020 19:29

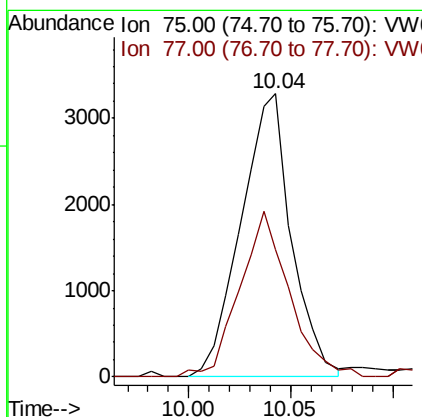
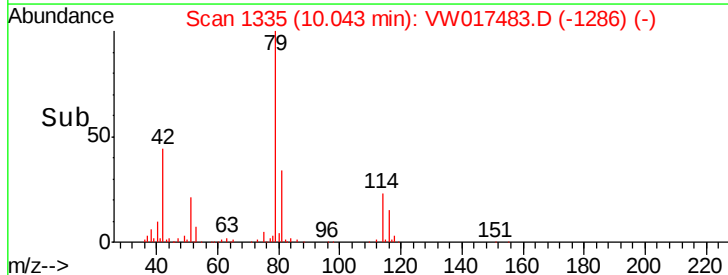
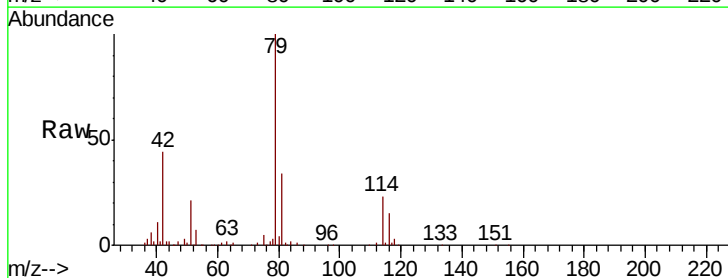
Instrument :  
MSVOA\_W  
ClientSampleId :

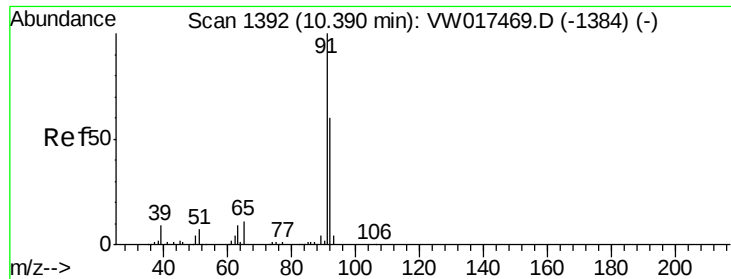
Tot Ion: 84 Resp: 5500  
Ion Ratio Lower Upper  
84 100  
49 106.6 81.2 150.8  
86 60.5 44.5 82.7



#42  
cis-1,3-Dichloropropene  
Concen: 0.704 ug/L  
RT: 10.04 min Scan# 1335  
Delta R.T. -0.03 min  
Lab File: VW017483.D  
Acq: 24 Nov 2020 19:29

Tgt Ion: 75 Resp: 5653  
Ion Ratio Lower Upper  
75 100  
77 45.0 22.7 42.3#





#44

Toluene

Concen: 0.375 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW017483.D

Acq: 24 Nov 2020 19:29

Instrument :

MSVOA\_W

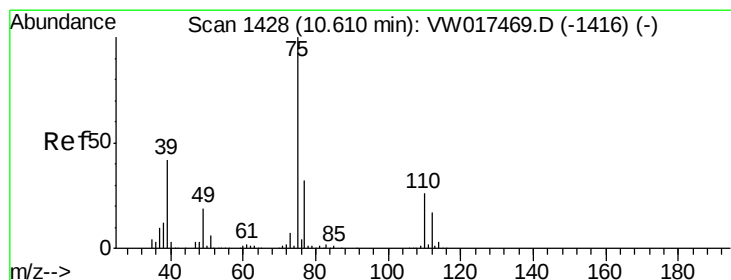
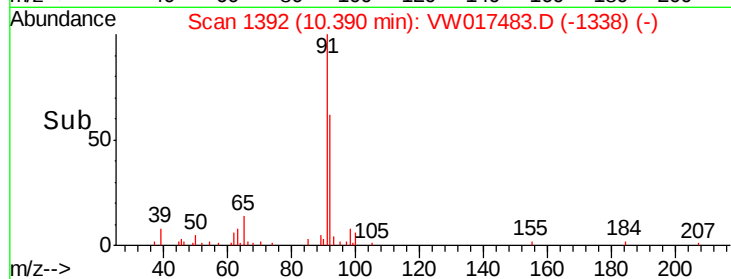
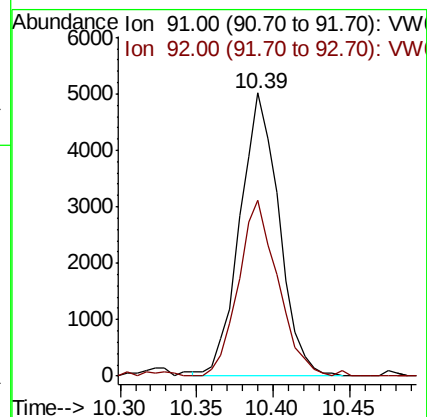
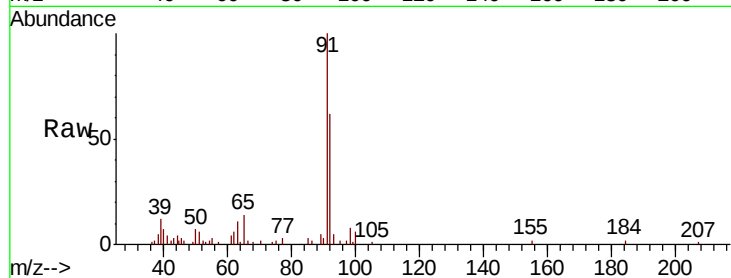
ClientSampleId :

Tot Ion: 91 Resp: 8919

Ion Ratio Lower Upper

91 100

92 62.0 41.6 77.3



#45

trans-1,3-Dichloropropene

Concen: 0.495 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.03 min

Lab File: VW017483.D

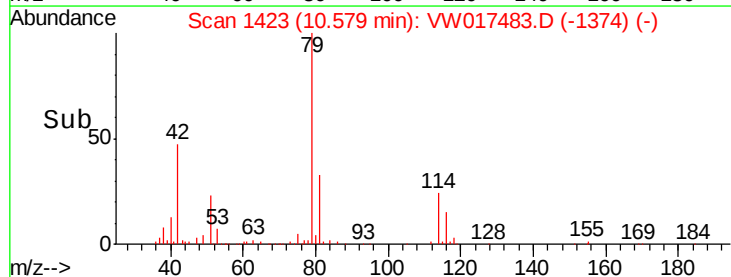
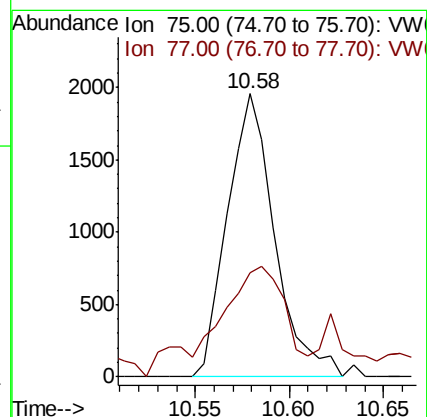
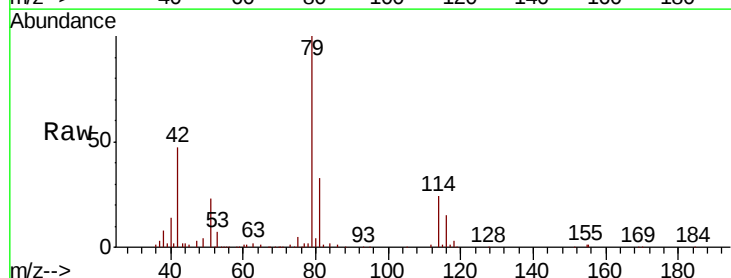
Acq: 24 Nov 2020 19:29

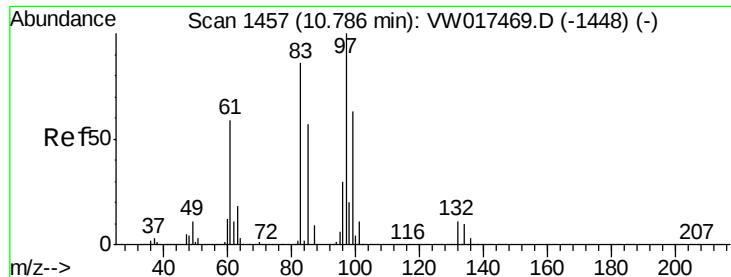
Tgt Ion: 75 Resp: 3409

Ion Ratio Lower Upper

75 100

77 36.8 22.6 42.0

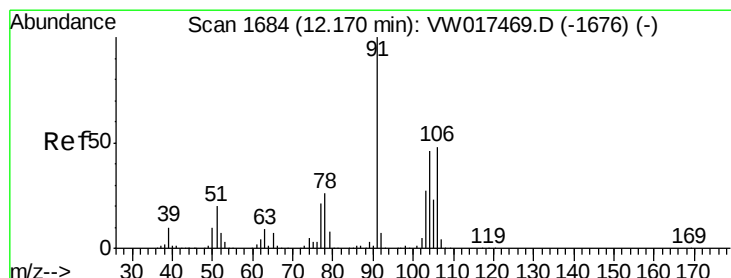
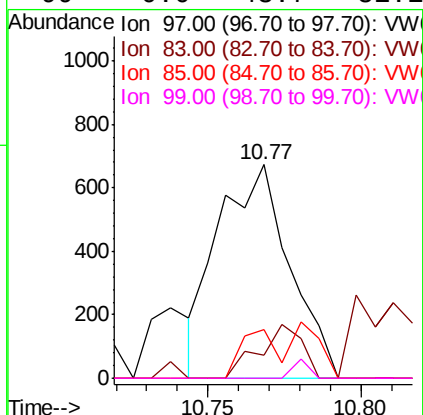
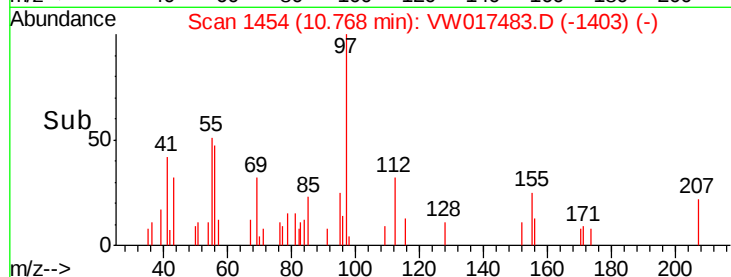
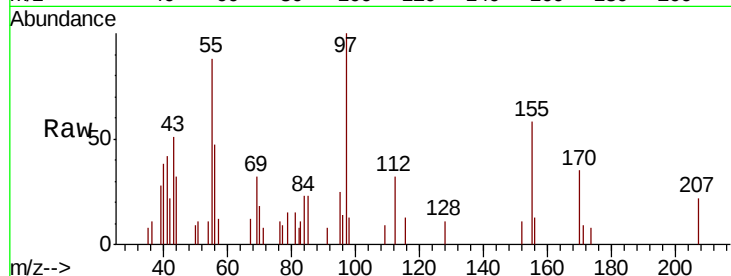




#46  
 1,1,2-Trichloroethane  
 Concen: 0.281 ug/L  
 RT: 10.77 min Scan# 1454  
 Delta R.T. -0.02 min  
 Lab File: VW017483.D  
 Acq: 24 Nov 2020 19:29

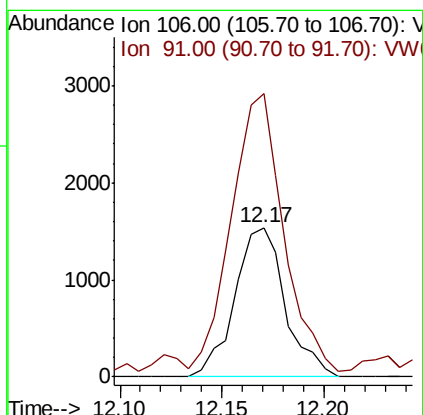
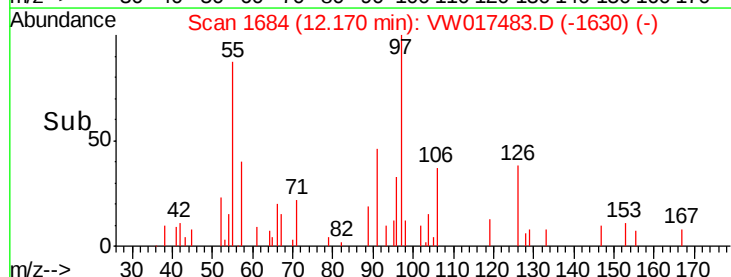
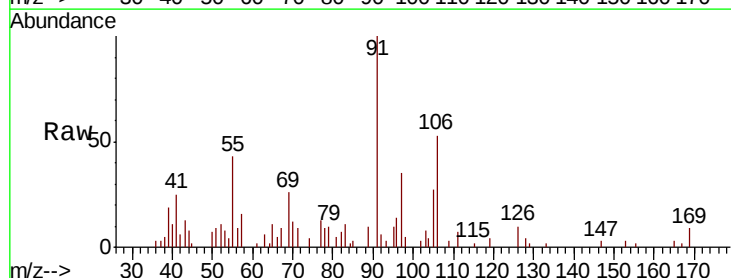
Instrument :  
 MSVOA\_W  
 ClientSampleId :

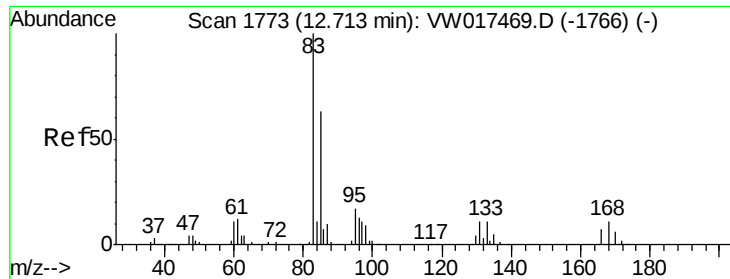
Tot Ion: 97 Resp: 1094  
 Ion Ratio Lower Upper  
 97 100  
 83 10.7 58.5 108.7#  
 85 23.0 37.8 70.2#  
 99 0.0 43.7 81.1#



#55  
 o-xylene  
 Concen: 0.276 ug/L  
 RT: 12.17 min Scan# 1684  
 Delta R.T. -0.00 min  
 Lab File: VW017483.D  
 Acq: 24 Nov 2020 19:29

Tgt Ion: 106 Resp: 2640  
 Ion Ratio Lower Upper  
 106 100  
 91 189.8 147.6 274.2





#58

1,1,2,2-Tetrachloroethane

Concen: 0.688 ug/L

RT: 12.69 min Scan# 1770

Delta R.T. -0.02 min

Lab File: VW017483.D

Acq: 24 Nov 2020 19:29

Instrument :

MSVOA\_W

ClientSampled :

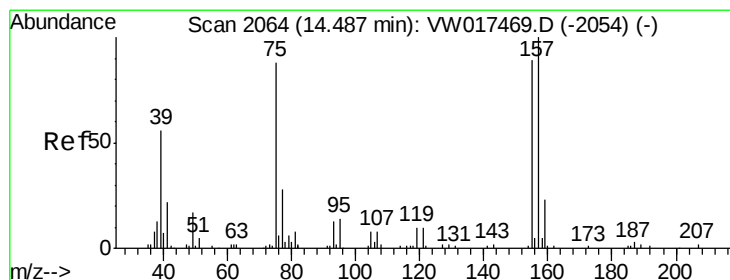
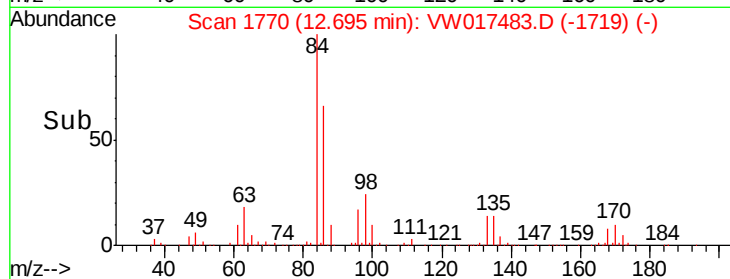
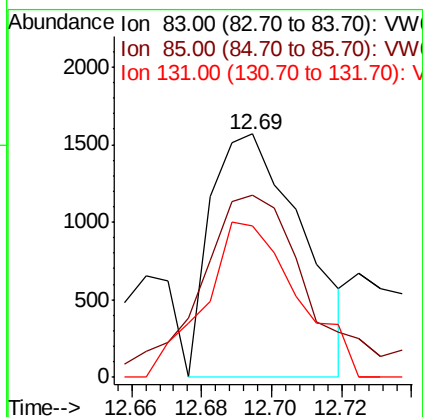
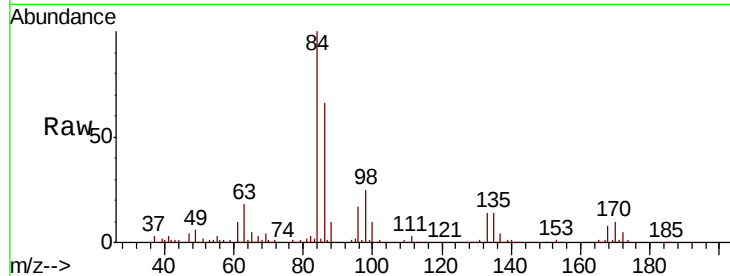
Tot Ion: 83 Resp: 2877

Ion Ratio Lower Upper

83 100

85 75.0 45.3 84.1

131 62.4 8.3 12.5#



#66

1,2-Dibromo-3-chloropropane

Concen: 6.003 ug/L

RT: 14.46 min Scan# 2060

Delta R.T. -0.02 min

Lab File: VW017483.D

Acq: 24 Nov 2020 19:29

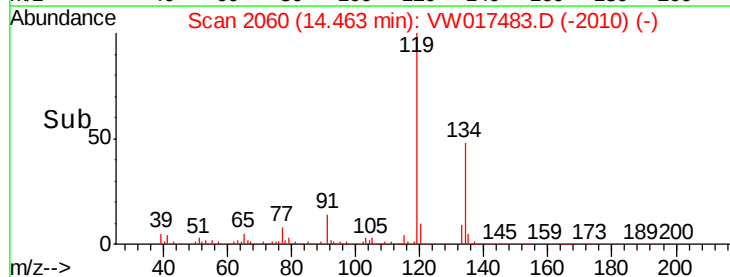
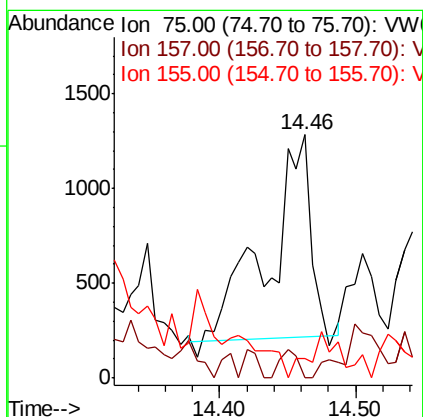
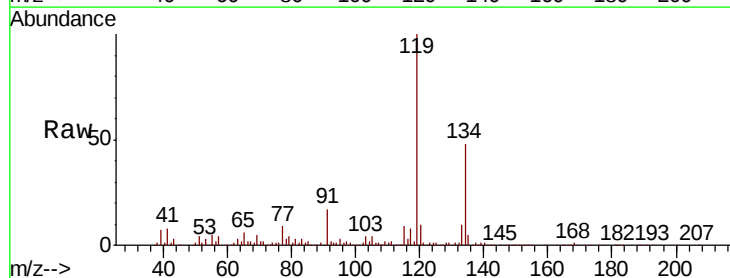
Tgt Ion: 75 Resp: 2283

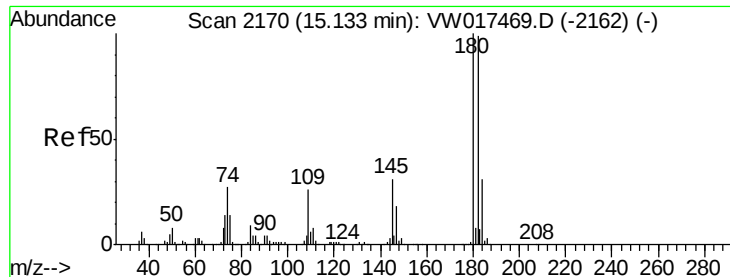
Ion Ratio Lower Upper

75 100

157 0.0 99.9 149.9#

155 7.9 71.4 107.0#

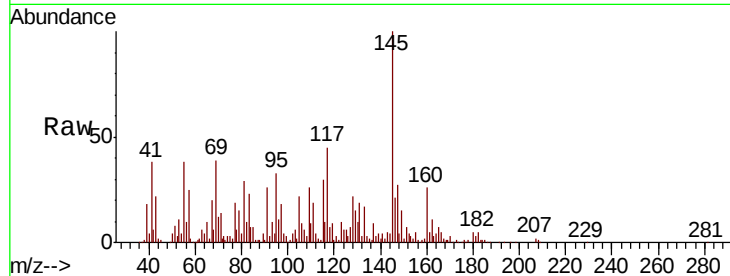




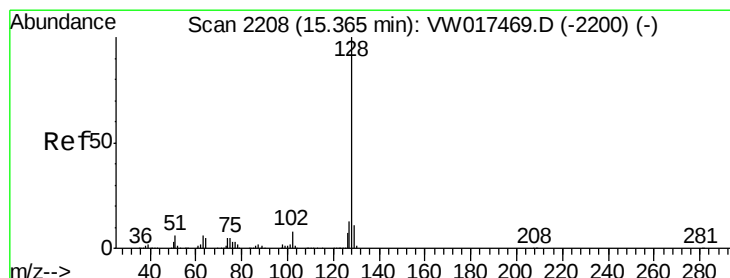
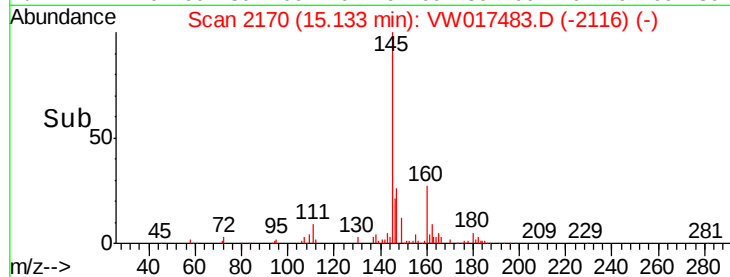
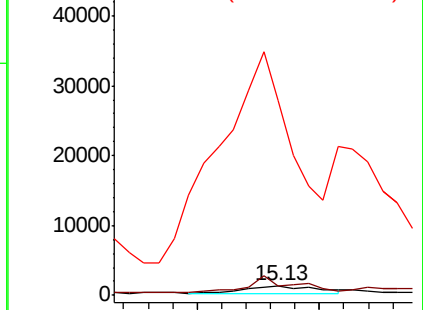
#68  
 1,2,4-trichlorobenzene  
 Concen: 0.548 ug/L  
 RT: 15.13 min Scan# 2170  
 Delta R.T. -0.00 min  
 Lab File: VW017483.D  
 Acq: 24 Nov 2020 19:29

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:180 Resp: 2154  
 Ion Ratio Lower Upper  
 180 100  
 182 95.7 71.3 106.9  
 145 3791.4 24.0 36.0#

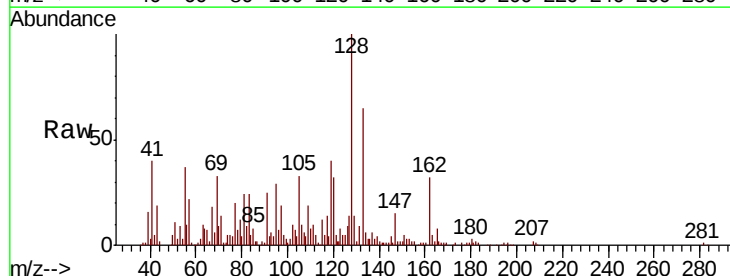


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V

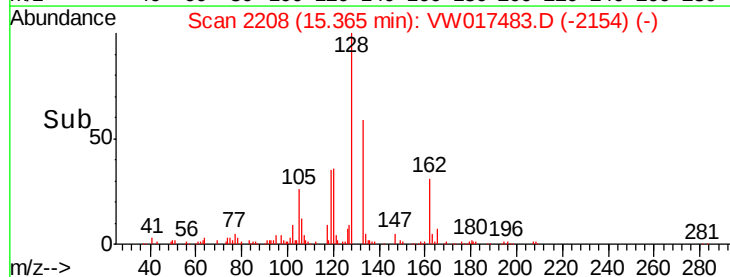
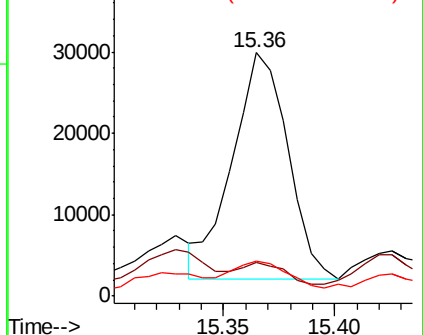


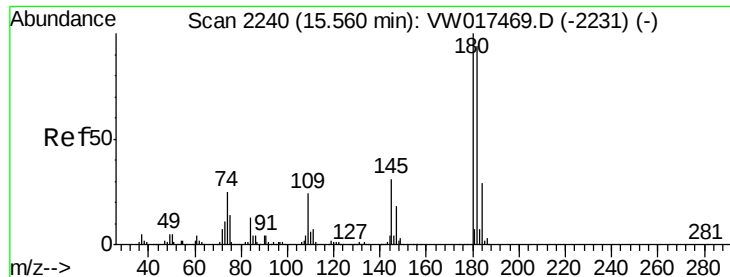
#69  
 Naphthalene  
 Concen: 7.919 ug/L  
 RT: 15.36 min Scan# 2208  
 Delta R.T. -0.00 min  
 Lab File: VW017483.D  
 Acq: 24 Nov 2020 19:29

Tgt Ion:128 Resp: 48021  
 Ion Ratio Lower Upper  
 128 100  
 129 6.9 8.7 13.1#  
 127 12.3 10.7 16.1



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

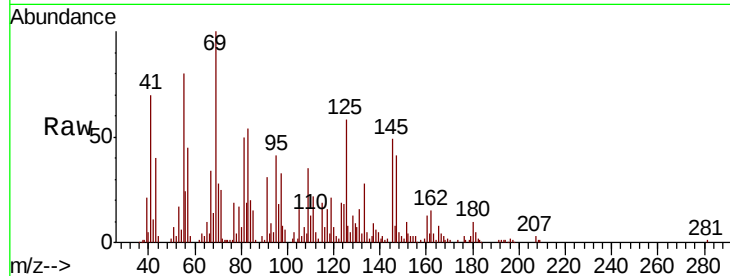




#70  
 1,2,3-Trichlorobenzene  
 Concen: 0.693 ug/L  
 RT: 15.58 min Scan# 2243  
 Delta R.T. 0.02 min  
 Lab File: VW017483.D  
 Acq: 24 Nov 2020 19:29

Instrument :  
 MSVOA\_W  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 92.3  | 74.7  | 112.1 |
| 145     | 0.0   | 25.4  | 38.0  |



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V

