

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV040120\  
 Data File : VV015355.D  
 Acq On : 02 Apr 2020 03:24  
 Operator : SY/MD  
 Sample : L2005-04 10X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Apr 02 06:41:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM040120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 02 06:34:01 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 708117   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 672132   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 322115   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 162035   | 25.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 51.04%# |
| 7) Chloroethane-d5             | 1.58    | 69    | 162926   | 30.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 60.08%# |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 269151   | 23.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 47.44%# |
| 21) 2-Butanone-d5              | 3.94    | 46    | 300724   | 89.11    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 89.11%  |
| 24) Chloroform-d               | 4.38    | 84    | 386721   | 36.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 73.78%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 252905   | 38.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 77.46%  |
| 32) Benzene-d6                 | 5.08    | 84    | 763994   | 36.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 73.82%  |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 240392   | 39.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 78.78%  |
| 41) Toluene-d8                 | 7.34    | 98    | 727891   | 36.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 73.54%# |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 106397   | 31.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 63.10%  |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 234451   | 84.12    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 84.12%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 363540   | 41.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 83.74%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 300004   | 40.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 81.88%  |

## Target Compounds

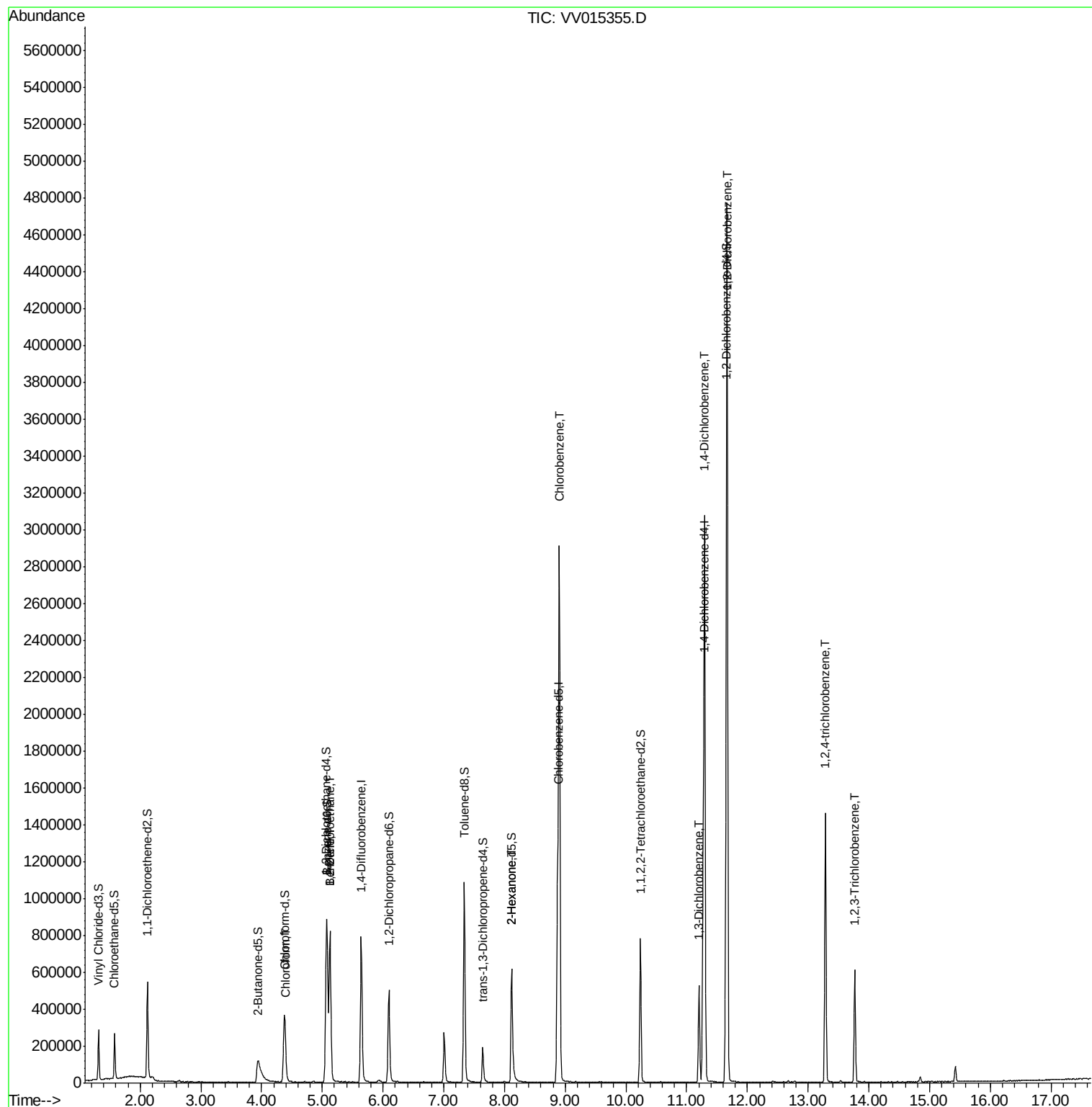
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 25) Chloroform             | 4.41  | 83   | 18574    | 1.946   | ug/L   | 97     |
| 27) 1,2-Dichloroethane     | 5.12  | 62   | 8688     | 1.208   | ug/L # | 84     |
| 33) Benzene                | 5.13  | 78   | 844258   | 42.438  | ug/L   | 100    |
| 48) 2-Hexanone             | 8.12  | 43   | 28431    | 5.470   | ug/L # | 43     |
| 51) Chlorobenzene          | 8.90  | 112  | 1555949  | 107.377 | ug/L   | 98     |
| 62) 1,3-Dichlorobenzene    | 11.21 | 146  | 207130   | 19.101  | ug/L   | 98     |
| 63) 1,4-Dichlorobenzene    | 11.30 | 146  | 1184380  | 107.690 | ug/L   | 98     |
| 65) 1,2-Dichlorobenzene    | 11.67 | 146  | 1779946  | 160.928 | ug/L   | 99     |
| 68) 1,2,4-trichlorobenzene | 13.29 | 180  | 417051   | 63.530  | ug/L   | 98     |
| 70) 1,2,3-Trichlorobenzene | 13.77 | 180  | 169380   | 25.049  | ug/L   | 100    |

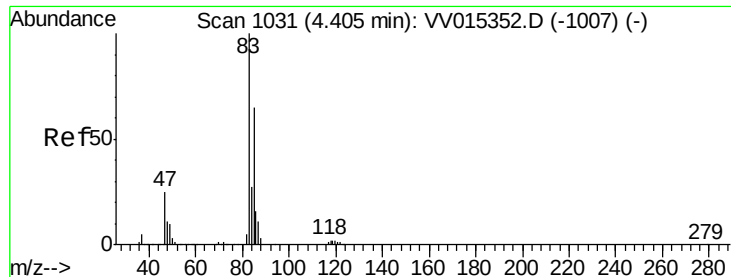
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV040120\  
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Operator : SY/MD  
Sample : L2005-04 10X  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Apr 02 06:41:48 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM040120WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Apr 02 06:34:01 2020  
Response via : Initial Calibration

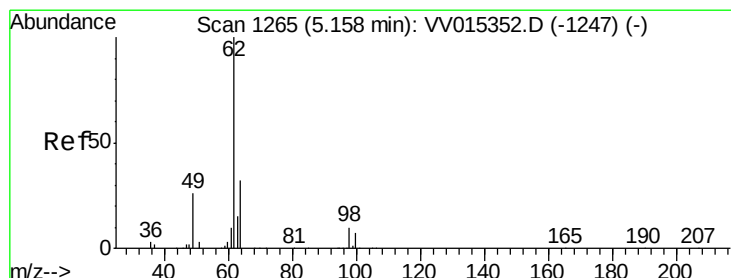
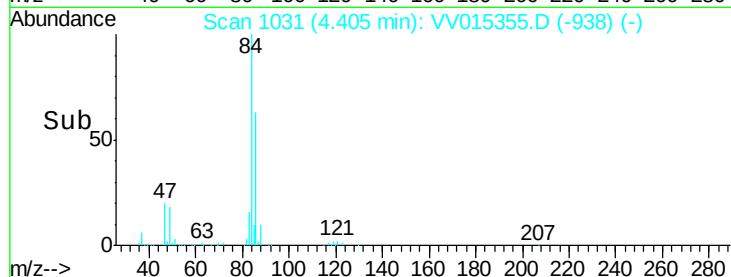
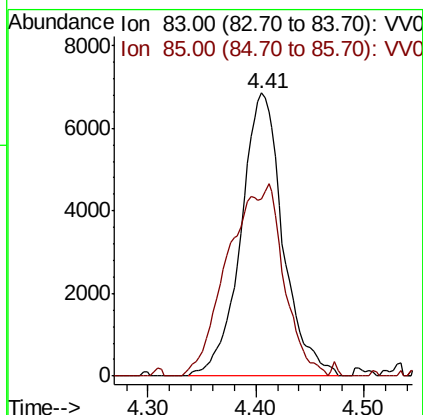
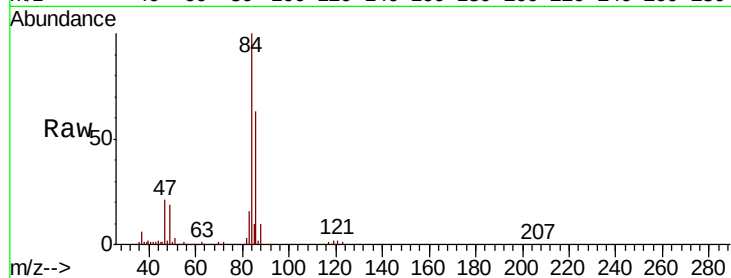




#25  
Chloroform  
Concen: 1.946 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: VV015355.D  
Acq: 02 Apr 2020 03:24

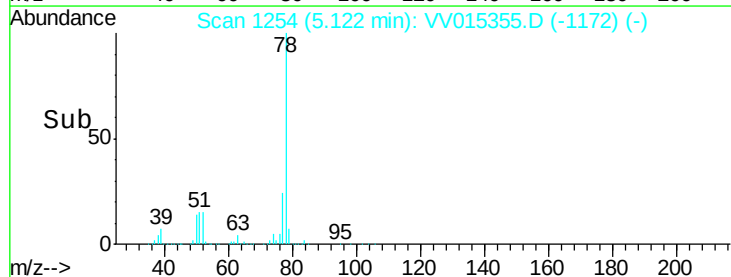
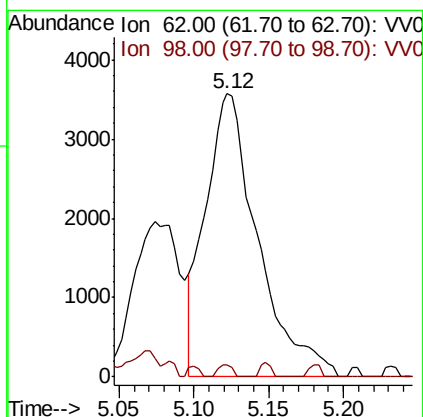
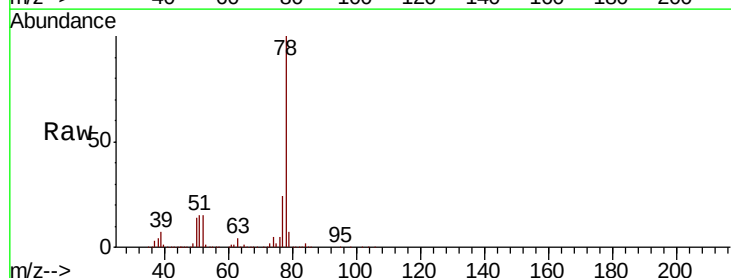
Instrument :  
MSVOA\_V  
ClientSampleId :

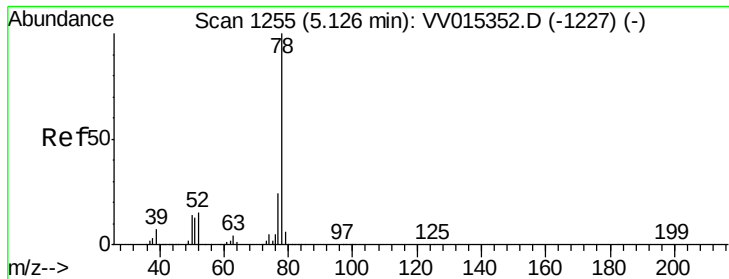
Tot Ion: 83 Resp: 18574  
Ion Ratio Lower Upper  
83 100  
85 62.4 45.1 83.9



#27  
1,2-Dichloroethane  
Concen: 1.208 ug/L  
RT: 5.12 min Scan# 1254  
Delta R.T. -0.04 min  
Lab File: VV015355.D  
Acq: 02 Apr 2020 03:24

Tgt Ion: 62 Resp: 8688  
Ion Ratio Lower Upper  
62 100  
98 4.0 7.9 11.9#





#33

Benzene

Concen: 42.438 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VV015355.D

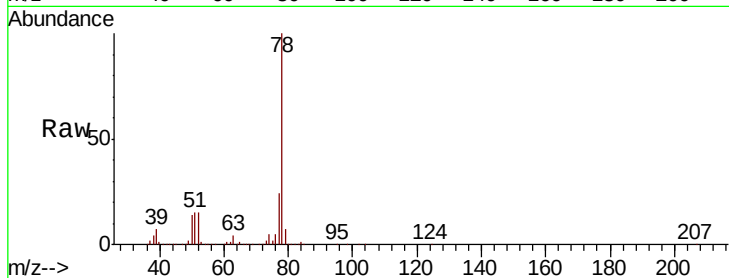
Acq: 02 Apr 2020 03:24

Instrument :

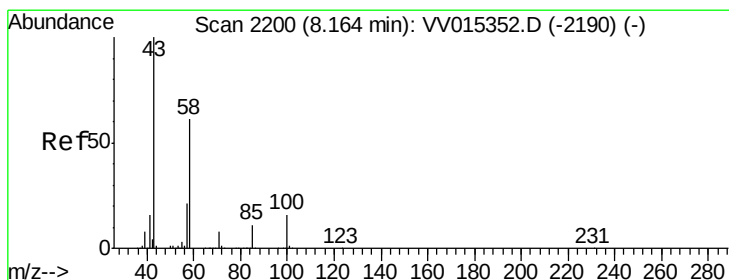
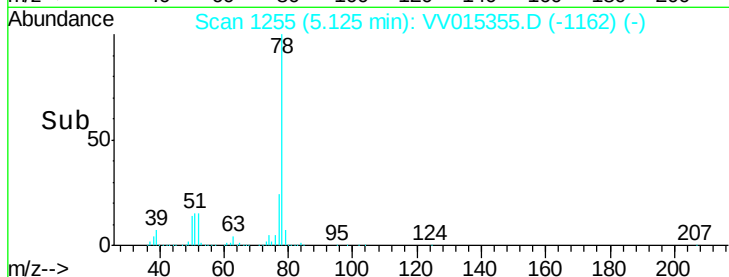
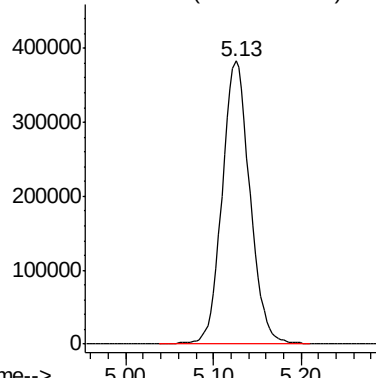
MSVOA\_V

ClientSampleId :

Tgt Ion: 78 Resp: 844258



Abundance Ion 78.00 (77.70 to 78.70): VV0



#48

2-Hexanone

Concen: 5.470 ug/L

RT: 8.12 min Scan# 2185

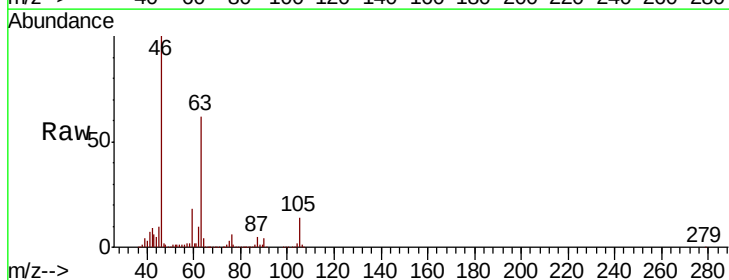
Delta R.T. -0.05 min

Lab File: VV015355.D

Acq: 02 Apr 2020 03:24

Tgt Ion: 43 Resp: 28431

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 0.0   | 47.4  | 71.2# |
| 57  | 25.5  | 16.7  | 25.1# |
| 100 | 0.3   | 11.5  | 17.3# |

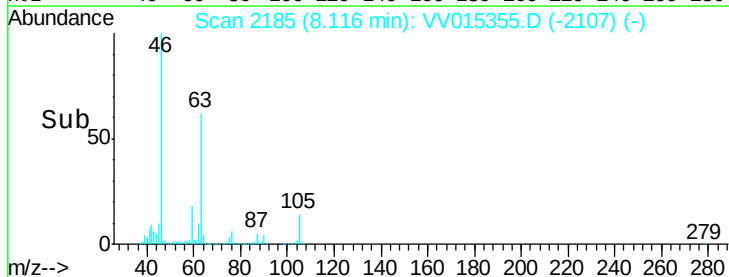
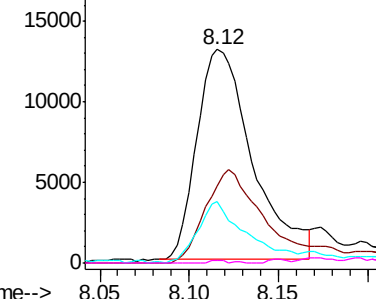


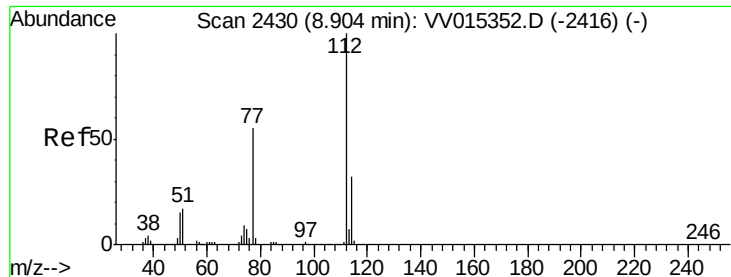
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0

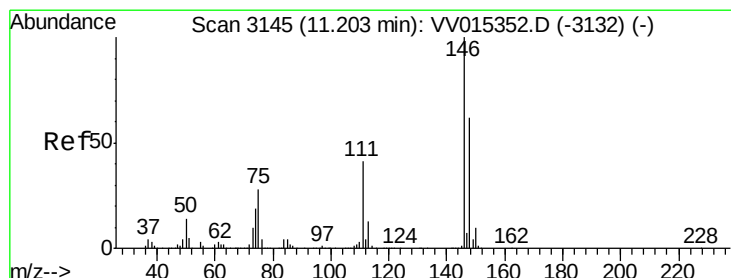
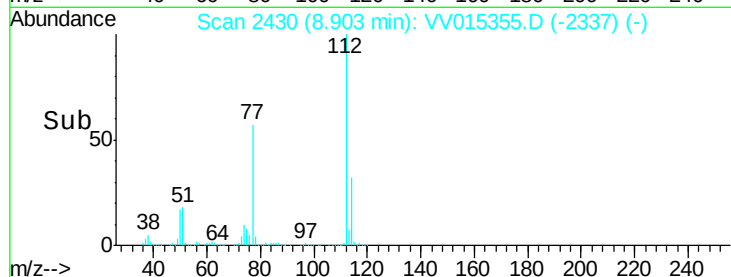
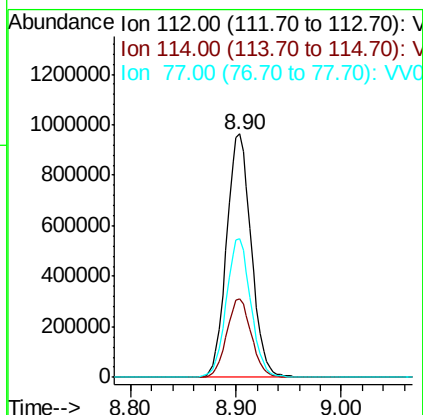
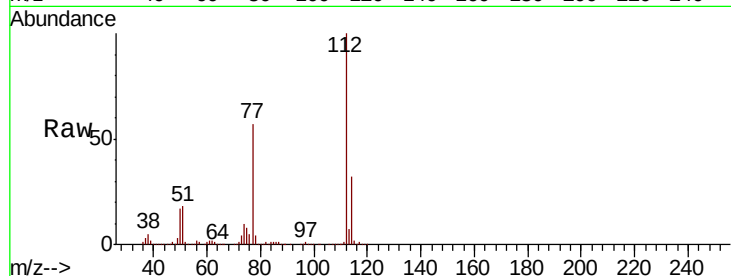




#51  
Chlorobenzene  
Concen: 107.377 ug/L  
RT: 8.90 min Scan# 2430  
Delta R.T. -0.00 min  
Lab File: VV015355.D  
Acq: 02 Apr 2020 03:24

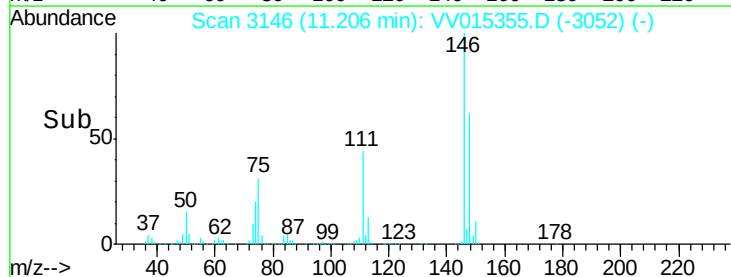
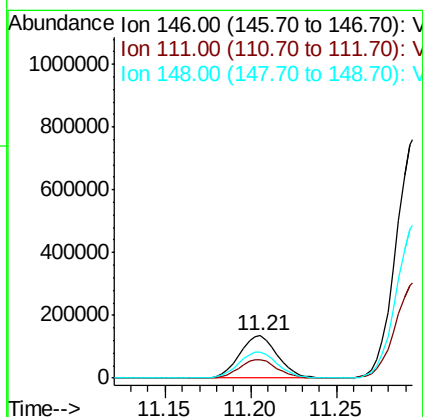
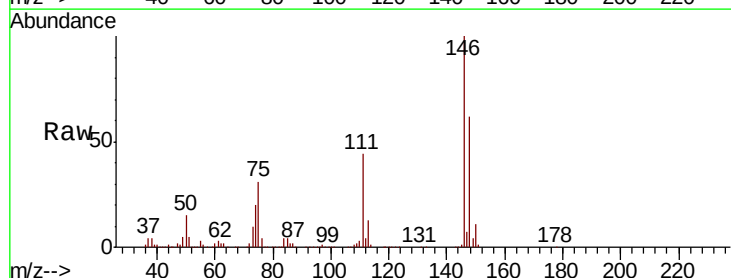
Instrument :  
MSVOA\_V  
ClientSampleId :

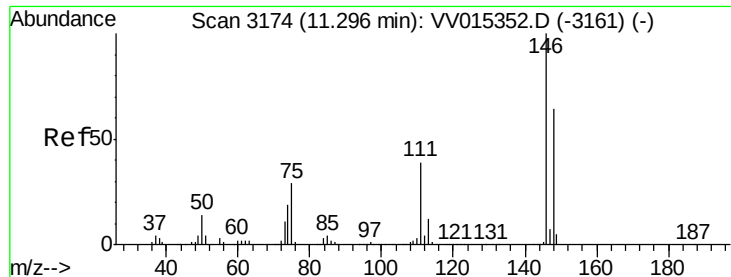
Tot Ion:112 Resp: 1555949  
Ion Ratio Lower Upper  
112 100  
114 32.3 21.8 40.4  
77 56.7 46.2 69.2



#62  
1,3-Dichlorobenzene  
Concen: 19.101 ug/L  
RT: 11.21 min Scan# 3146  
Delta R.T. 0.00 min  
Lab File: VV015355.D  
Acq: 02 Apr 2020 03:24

Tgt Ion:146 Resp: 207130  
Ion Ratio Lower Upper  
146 100  
111 44.1 30.2 56.2  
148 62.1 44.7 83.1

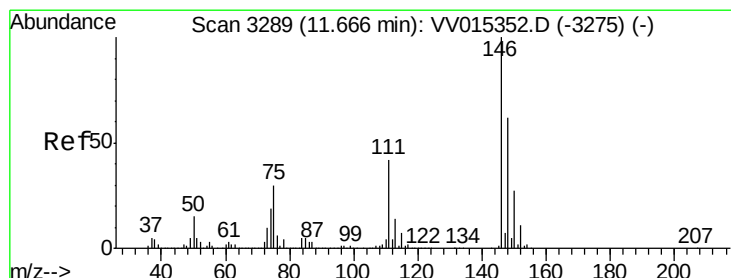
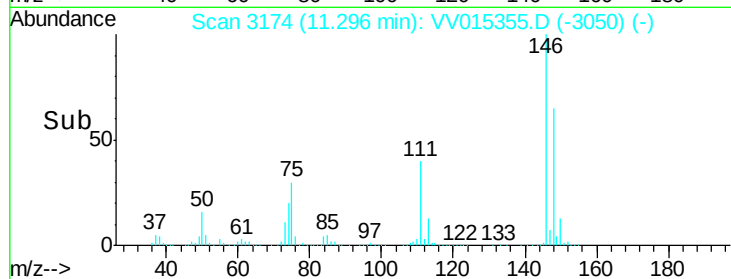
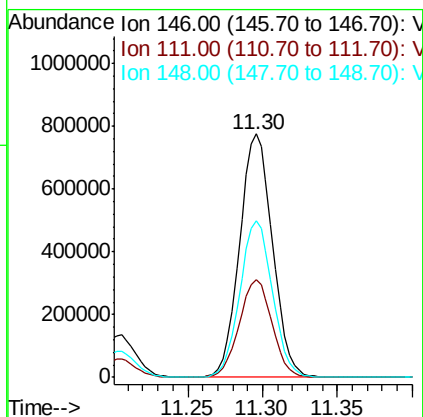
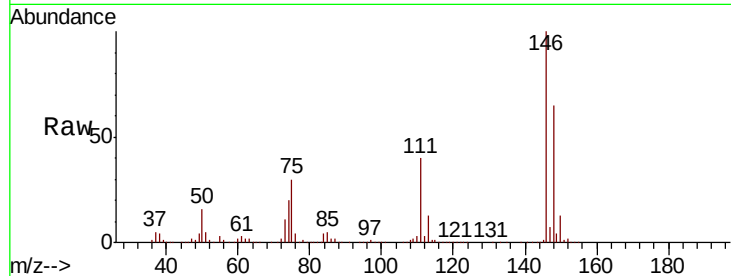




#63  
 1,4-Dichlorobenzene  
 Concen: 107.690 ug/L  
 RT: 11.30 min Scan# 3174  
 Delta R.T. -0.00 min  
 Lab File: VV015355.D  
 Acq: 02 Apr 2020 03:24

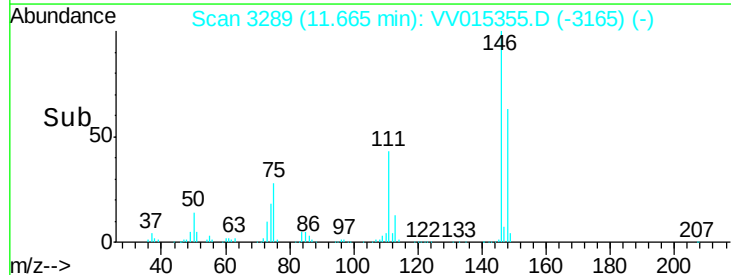
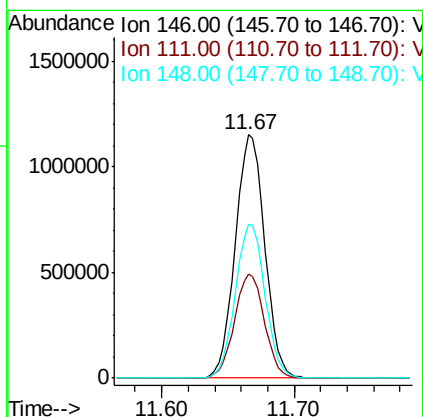
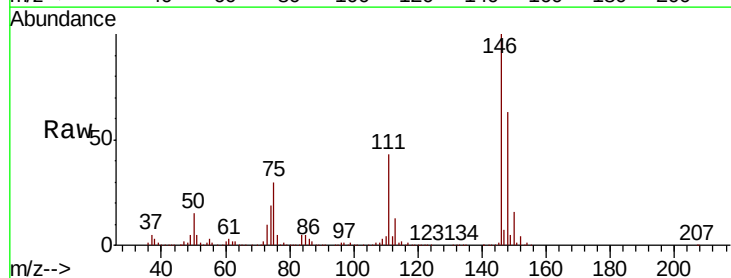
Instrument :  
 MSVOA\_V  
 ClientSampled :

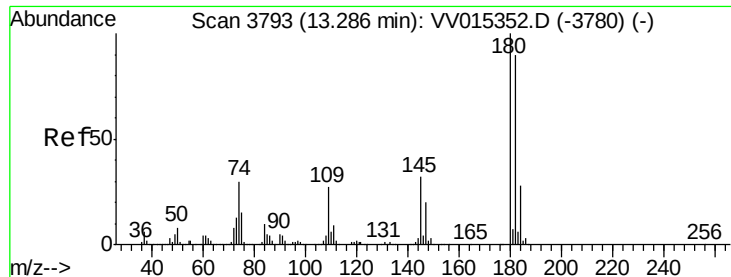
Tot Ion:146 Resp: 1184380  
 Ion Ratio Lower Upper  
 146 100  
 111 39.9 29.3 54.5  
 148 64.5 44.7 82.9



#65  
 1,2-Dichlorobenzene  
 Concen: 160.928 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. -0.00 min  
 Lab File: VV015355.D  
 Acq: 02 Apr 2020 03:24

Tgt Ion:146 Resp: 1779946  
 Ion Ratio Lower Upper  
 146 100  
 111 42.9 35.1 52.7  
 148 63.1 51.0 76.4

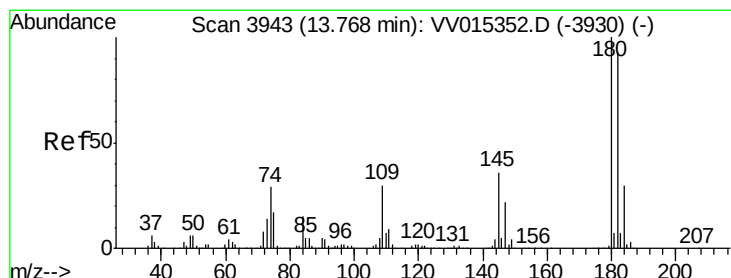
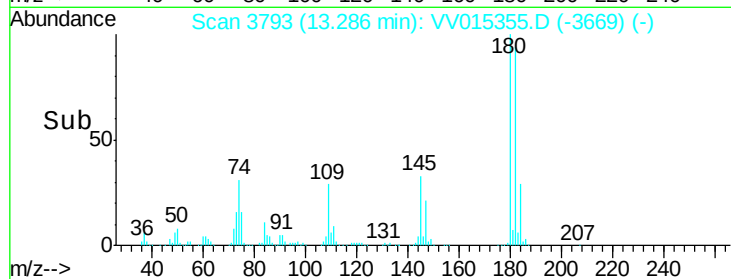
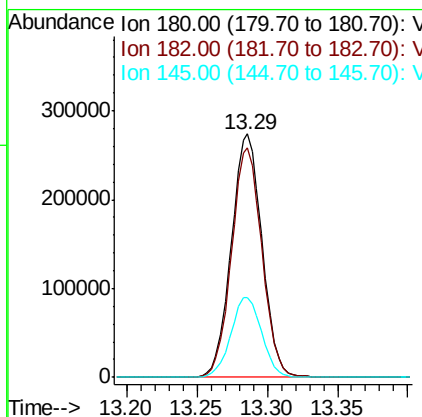
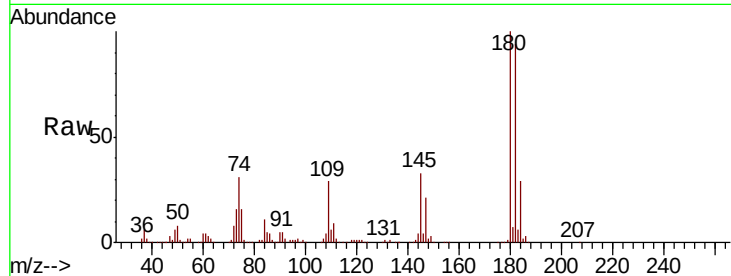




#68  
 1,2,4-trichlorobenzene  
 Concen: 63.530 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. -0.00 min  
 Lab File: VV015355.D  
 Acq: 02 Apr 2020 03:24

Instrument :  
 MSVOA\_V  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.5  | 75.8  | 113.8 |
| 145     | 33.3  | 27.7  | 41.5  |



#70  
 1,2,3-Trichlorobenzene  
 Concen: 25.049 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. -0.00 min  
 Lab File: VV015355.D  
 Acq: 02 Apr 2020 03:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.5  | 76.1  | 114.1 |
| 145     | 35.3  | 28.2  | 42.4  |

