

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU011521\  
 Data File : VU042083.D  
 Acq On : 15 Jan 2021 19:38  
 Operator : SY/MD  
 Sample : M1164-02  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFXP9

Quant Time: Jan 16 01:15:02 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR011321WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Jan 16 01:05:16 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.260  | 114   | 110497   | 5.00     | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420  | 117   | 120048   | 5.00     | ug/L   | 0.00     |
| 60) 1,4-Dichlorobenzene-d4    | 11.809 | 152   | 58875    | 5.00     | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601  | 65    | 36864    | 4.42     | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 88.40%   |
| 7) Chloroethane-d5            | 1.919  | 69    | 42718    | 5.41     | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 108.20%  |
| 11) 1,1-Dichloroethene-d2     | 2.575  | 63    | 63517    | 3.78     | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 75.60%   |
| 20) 2-Butanone-d5             | 4.655  | 46    | 172494   | 61.65    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 123.30%  |
| 24) Chloroform-d              | 5.080  | 84    | 87980    | 5.15     | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 103.00%  |
| 26) 1,2-Dichloroethane-d4     | 5.716  | 65    | 50498    | 5.43     | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 108.60%  |
| 32) Benzene-d6                | 5.742  | 84    | 156426   | 4.03     | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 80.60%   |
| 36) 1,2-Dichloropropane-d6    | 6.700  | 67    | 54980    | 4.32     | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 86.40%   |
| 41) Toluene-d8                | 7.903  | 98    | 133512   | 3.85     | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 77.00%   |
| 43) trans-1,3-Dichloroprop... | 8.186  | 79    | 21542    | 4.21     | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 84.20%   |
| 46) 2-Hexanone-d5             | 8.642  | 63    | 137562   | 52.45    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 104.90%  |
| 57) 1,1,2,2-Tetrachloroeth... | 10.755 | 84    | 64559    | 6.66     | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 133.20%# |
| 64) 1,2-Dichlorobenzene-d4    | 12.189 | 152   | 55945    | 5.05     | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 101.00%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.385  | 85    | 85564    | 8.42     | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.144  | 101   | 1911     | 0.12     | ug/L   | 89       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578  | 101   | 564      | 0.06     | ug/L # | 21       |
| 12) 1,1-Dichloroethene        | 2.591  | 96    | 8584     | 0.99     | ug/L # | 25       |
| 13) Acetone                   | 2.658  | 43    | 3716     | 2.12     | ug/L   | 98       |
| 15) Methyl Acetate            | 2.954  | 43    | 511      | 0.12     | ug/L # | 51       |
| 17) Methyl tert-butyl Ether   | 3.382  | 73    | 7460     | 0.33     | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 3.369  | 96    | 1999     | 0.23     | ug/L   | 79       |
| 19) 1,1-Dichloroethane        | 3.887  | 63    | 4087     | 0.24     | ug/L   | 91       |
| 22) cis-1,2-Dichloroethene    | 4.687  | 96    | 32686    | 3.56     | ug/L   | 83       |
| 25) Chloroform                | 5.102  | 83    | 3297     | 0.19     | ug/L   | 96       |
| 33) Benzene                   | 5.790  | 78    | 2176     | 0.05     | ug/L   | 100      |
| 34) Trichloroethene           | 6.552  | 95    | 588154   | 52.96    | ug/L   | 99       |
| 35) Methylcyclohexane         | 6.700  | 83    | 12812    | 0.73     | ug/L # | 16       |
| 37) 1,2-Dichloropropane       | 6.703  | 63    | 5578     | 0.48     | ug/L # | 90       |
| 39) cis-1,3-Dichloropropene   | 7.575  | 75    | 1311     | 0.08     | ug/L # | 52       |
| 42) Toluene                   | 7.977  | 91    | 3918     | 0.08     | ug/L   | 92       |
| 44) trans-1,3-Dichloropropene | 8.186  | 75    | 815      | 0.05     | ug/L # | 75       |
| 45) 1,1,2-Trichloroethane     | 8.559  | 97    | 621      | 0.08     | ug/L # | 6        |
| 47) Tetrachloroethene         | 8.555  | 164   | 87433    | 12.15    | ug/L   | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU011521\  
Data File : VU042083.D  
Acq On : 15 Jan 2021 19:38  
Operator : SY/MD  
Sample : M1164-02  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFXP9

Quant Time: Jan 16 01:15:02 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR011321WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Jan 16 01:05:16 2021  
Response via : Initial Calibration

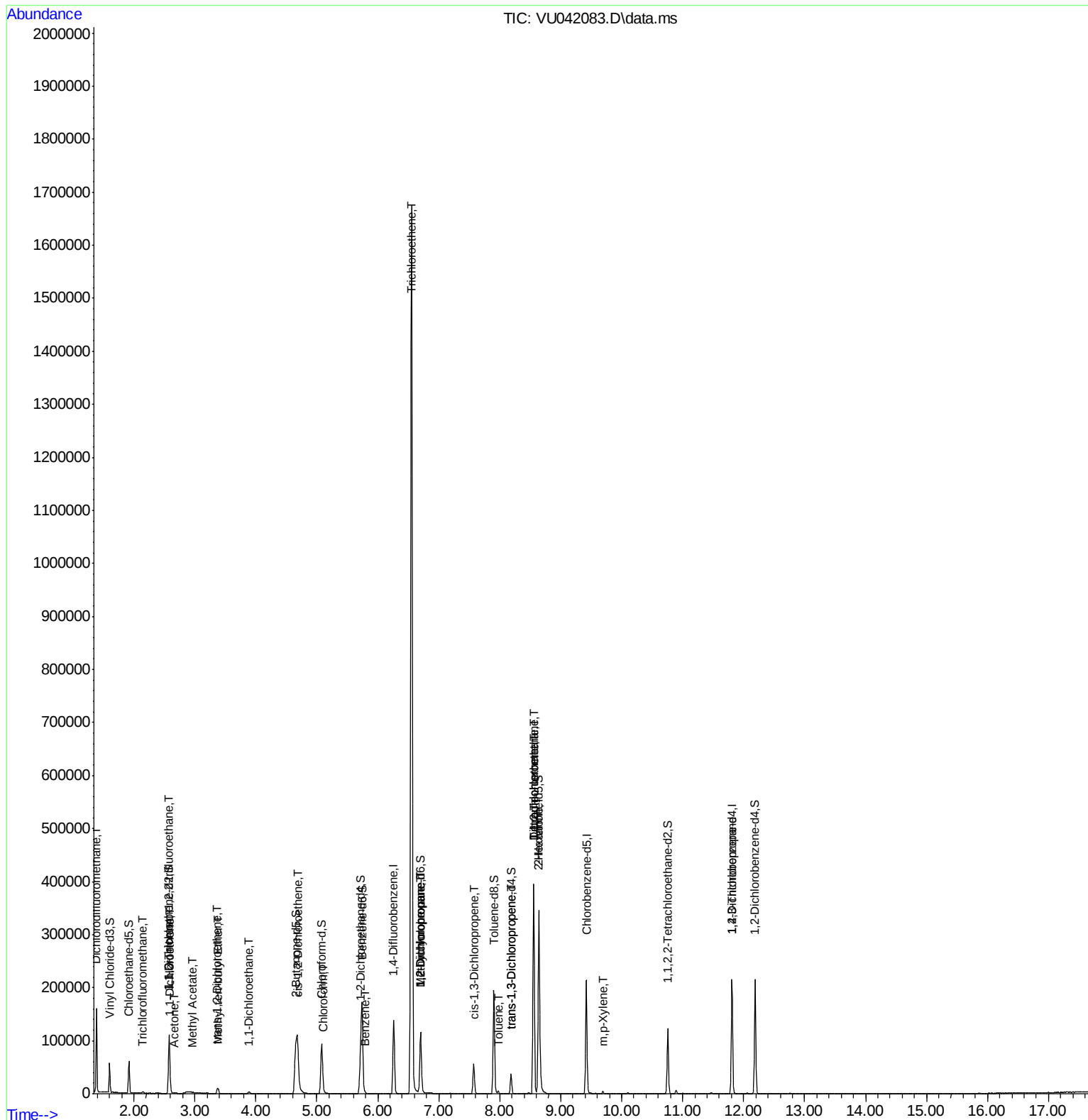
| Compound                   | R.T.   | QIon | Response | Conc | Units  | Dev(Min) |
|----------------------------|--------|------|----------|------|--------|----------|
| 48) 2-Hexanone             | 8.639  | 43   | 15268    | 2.84 | ug/L # | 68       |
| 49) Dibromochloromethane   | 8.559  | 129  | 86120    | 9.69 | ug/L # | 11       |
| 53) m,p-Xylene             | 9.694  | 106  | 1321     | 0.08 | ug/L   | 88       |
| 59) 1,2,3-Trichloropropane | 11.809 | 75   | 6569     | 0.87 | ug/L   | 98       |

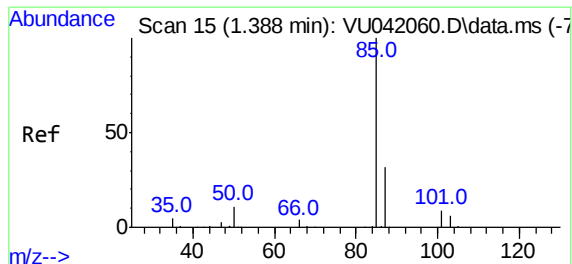
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU011521\  
Data File : VU042083.D  
Acq On : 15 Jan 2021 19:38  
Operator : SY/MD  
Sample : M1164-02  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFXP9

Quant Time: Jan 16 01:15:02 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR011321WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Jan 16 01:05:16 2021  
Response via : Initial Calibration

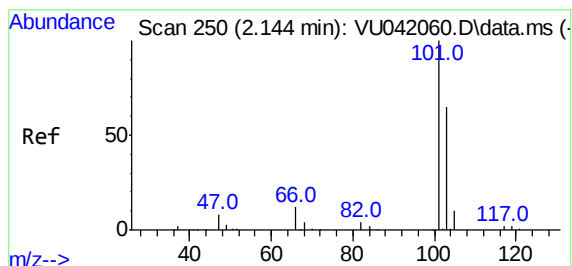
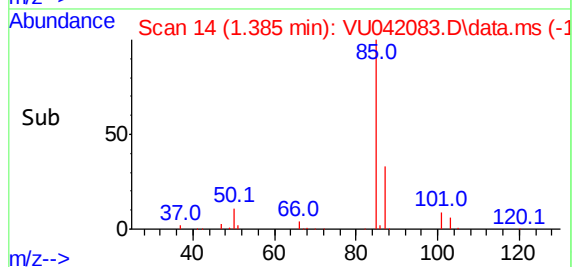
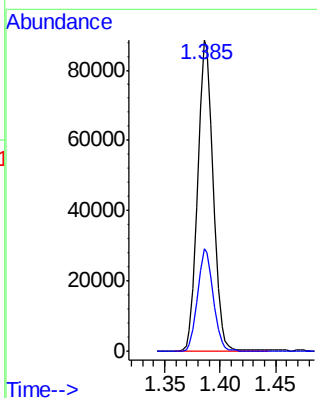
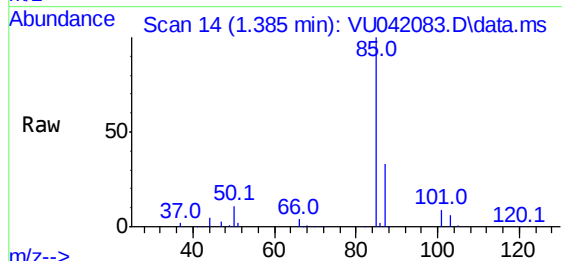




#2  
Dichlorodifluoromethane  
Concen: 8.42 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. -0.003 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

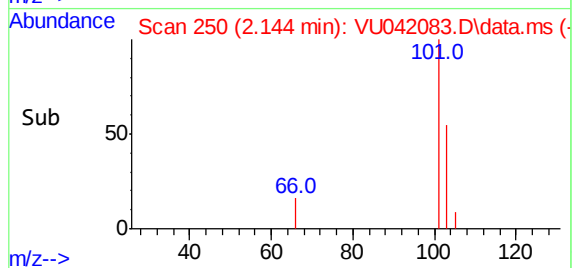
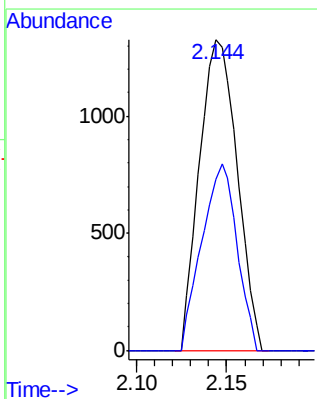
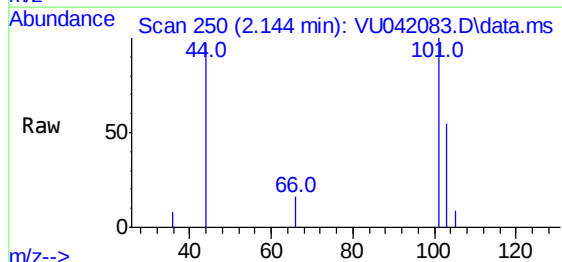
Instrument :  
MSVOA\_U  
ClientSampled :  
BFXP9

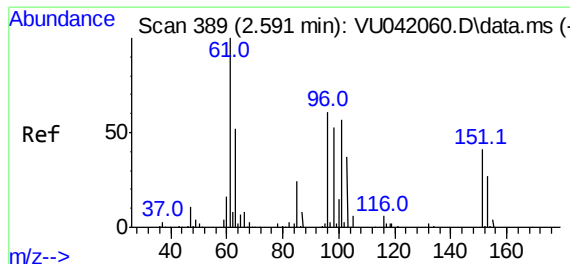
Tgt Ion: 85 Resp: 85564  
Ion Ratio Lower Upper  
85 100  
87 32.9 25.7 38.5



#9  
Trichlorofluoromethane  
Concen: 0.12 ug/L  
RT: 2.144 min Scan# 250  
Delta R.T. 0.000 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

Tgt Ion:101 Resp: 1911  
Ion Ratio Lower Upper  
101 100  
103 55.9 51.6 77.4

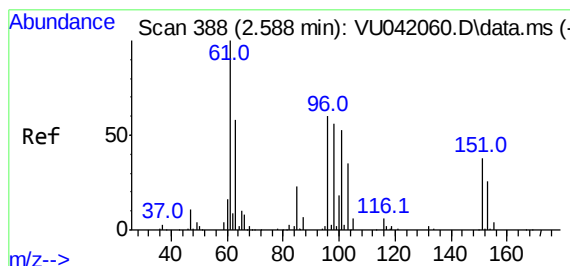
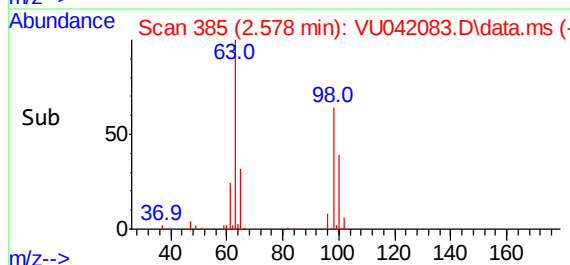
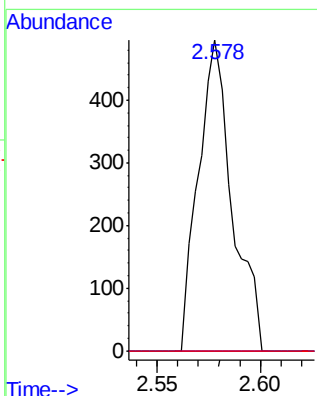
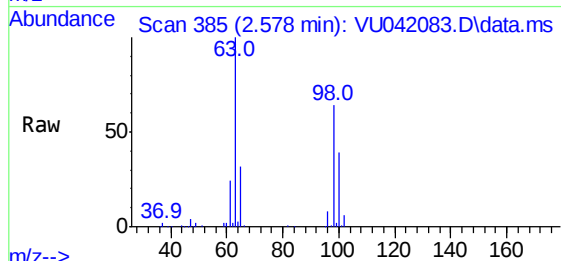




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.06 ug/L  
 RT: 2.578 min Scan# 385  
 Delta R.T. -0.013 min  
 Lab File: VU042083.D  
 Acq: 15 Jan 2021 19:38

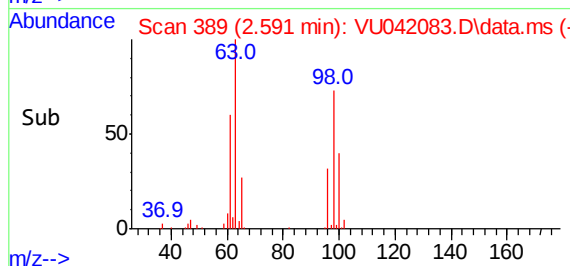
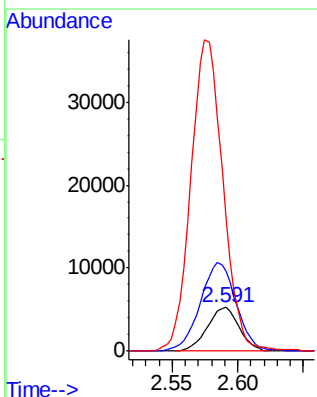
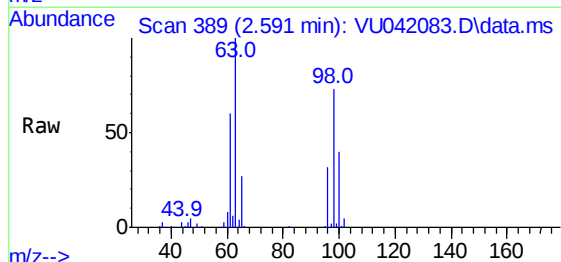
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFXP9

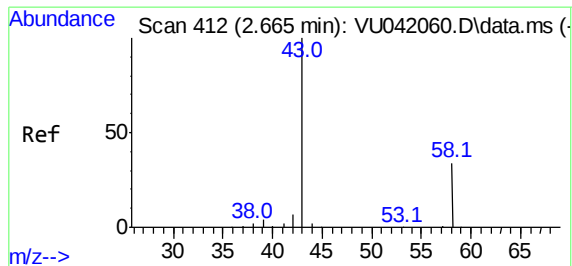
Tgt Ion:101 Resp: 564  
 Ion Ratio Lower Upper  
 101 100  
 85 0.0 35.9 53.9#  
 151 0.0 55.4 83.2#



#12  
 1,1-Dichloroethene  
 Concen: 0.99 ug/L  
 RT: 2.591 min Scan# 389  
 Delta R.T. 0.003 min  
 Lab File: VU042083.D  
 Acq: 15 Jan 2021 19:38

Tgt Ion: 96 Resp: 8584  
 Ion Ratio Lower Upper  
 96 100  
 61 186.0 122.2 226.9  
 63 309.3 82.8 153.8#

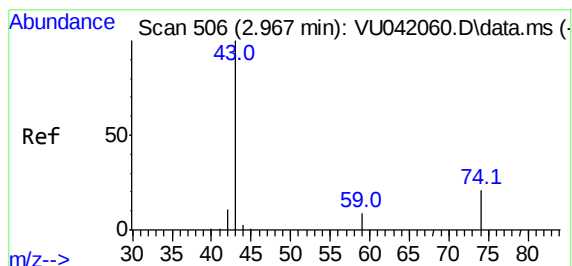
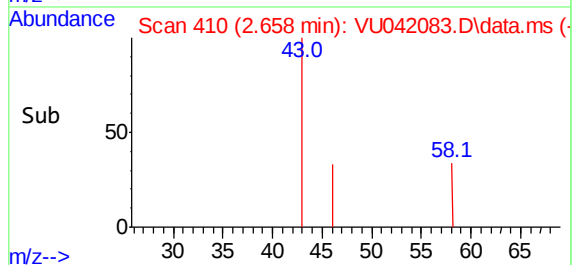
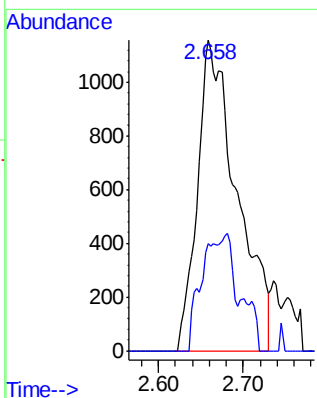
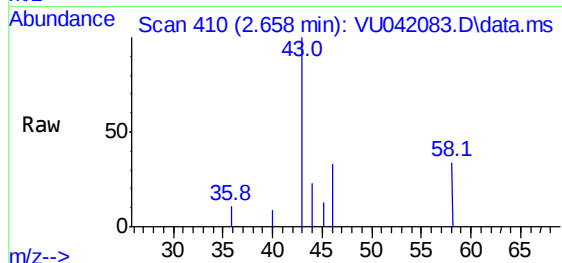




#13  
Acetone  
Concen: 2.12 ug/L  
RT: 2.658 min Scan# 410  
Delta R.T. -0.006 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

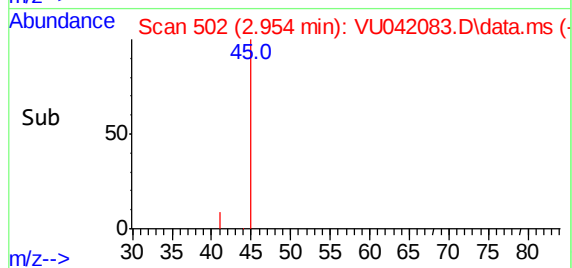
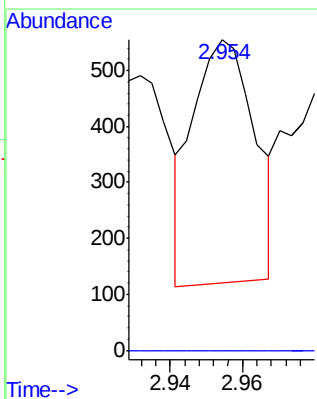
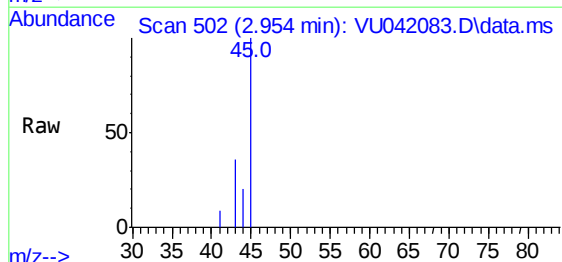
Instrument :  
MSVOA\_U  
ClientSampled :  
BFXP9

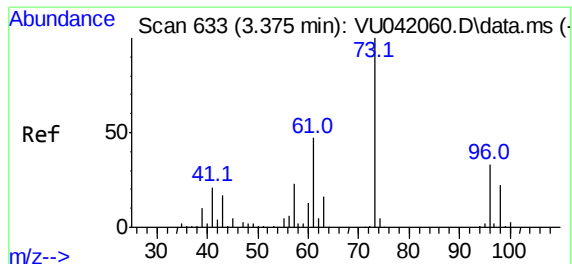
Tgt Ion: 43 Resp: 3716  
Ion Ratio Lower Upper  
43 100  
58 29.9 0.0 57.4



#15  
Methyl Acetate  
Concen: 0.12 ug/L  
RT: 2.954 min Scan# 502  
Delta R.T. -0.013 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

Tgt Ion: 43 Resp: 511  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.2 28.8#

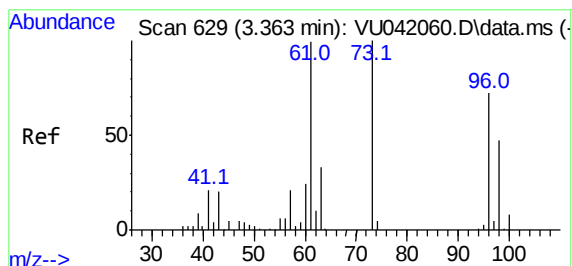
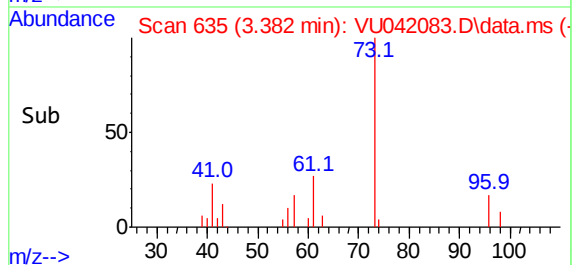
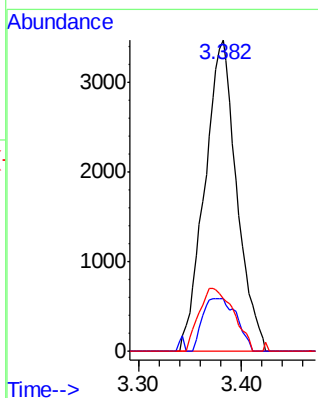
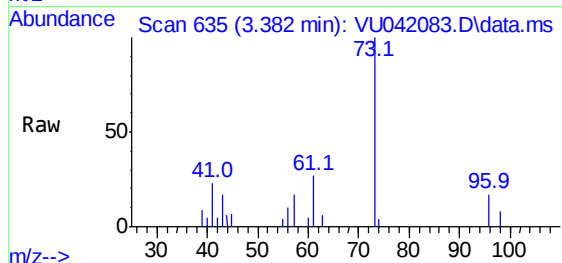




#17  
Methyl tert-butyl Ether  
Concen: 0.33 ug/L  
RT: 3.382 min Scan# 635  
Delta R.T. 0.006 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

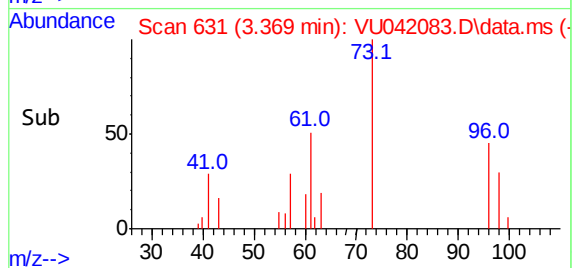
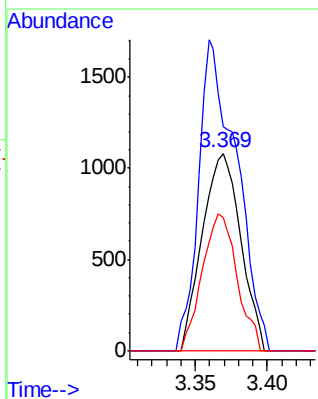
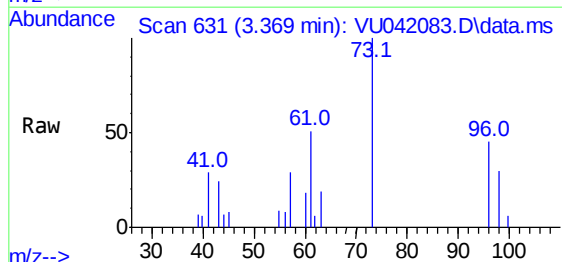
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFXP9

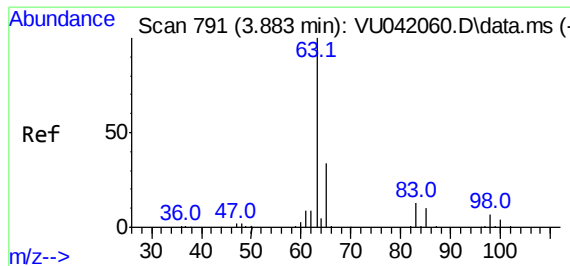
Tgt Ion: 73 Resp: 7460  
Ion Ratio Lower Upper  
73 100  
43 17.8 15.1 22.7  
57 21.7 18.0 27.0



#18  
trans-1,2-Dichloroethene  
Concen: 0.23 ug/L  
RT: 3.369 min Scan# 631  
Delta R.T. 0.006 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

Tgt Ion: 96 Resp: 1999  
Ion Ratio Lower Upper  
96 100  
61 113.6 103.2 191.6  
98 67.3 43.8 81.3

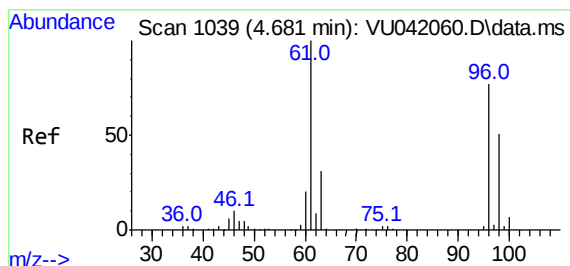
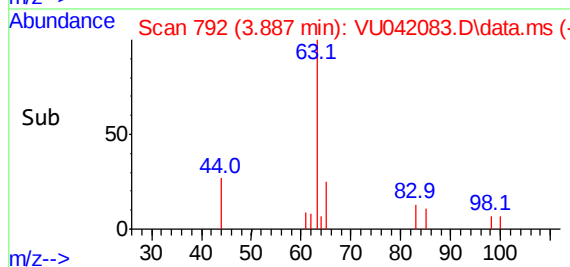
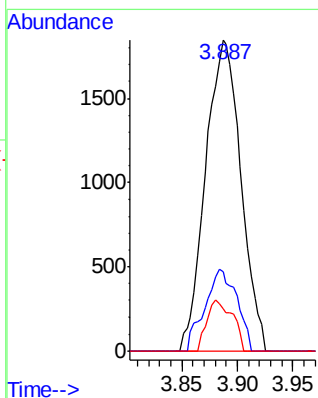
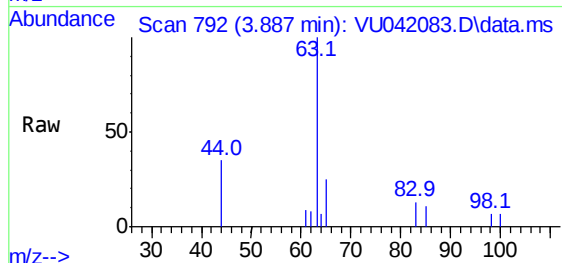




#19  
1,1-Dichloroethane  
Concen: 0.24 ug/L  
RT: 3.887 min Scan# 792  
Delta R.T. 0.003 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

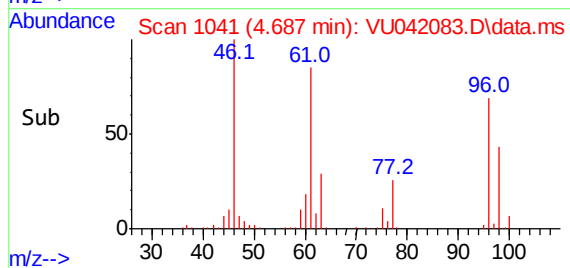
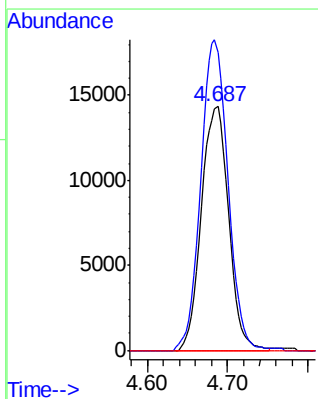
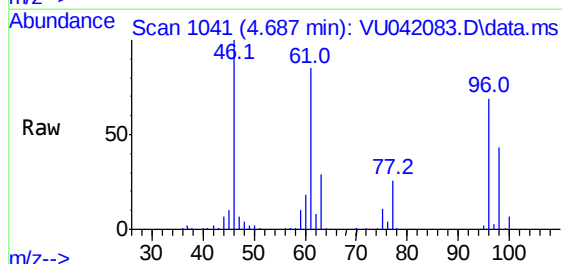
Instrument :  
MSVOA\_U  
ClientSampled :  
BFXP9

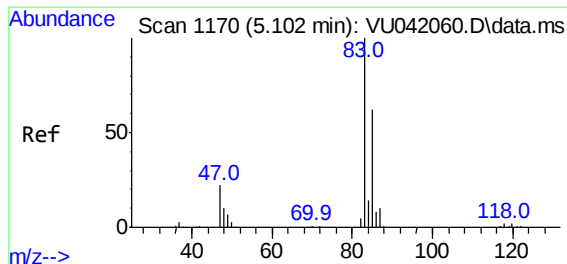
Tgt Ion: 63 Resp: 4087  
Ion Ratio Lower Upper  
63 100  
65 25.4 22.7 42.1  
83 13.4 9.4 17.6



#22  
cis-1,2-Dichloroethene  
Concen: 3.56 ug/L  
RT: 4.687 min Scan# 1041  
Delta R.T. 0.006 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

Tgt Ion: 96 Resp: 32686  
Ion Ratio Lower Upper  
96 100  
61 121.9 100.3 186.3  
68 0.0 0.0 0.0

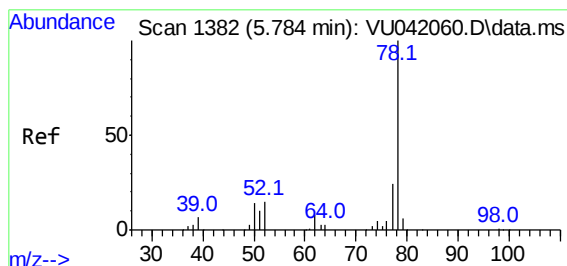
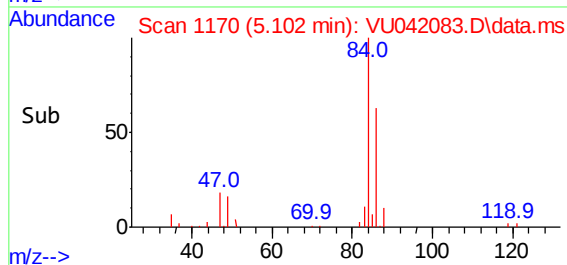
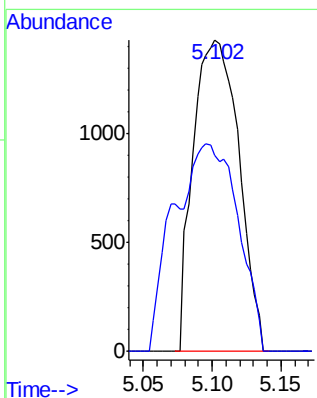
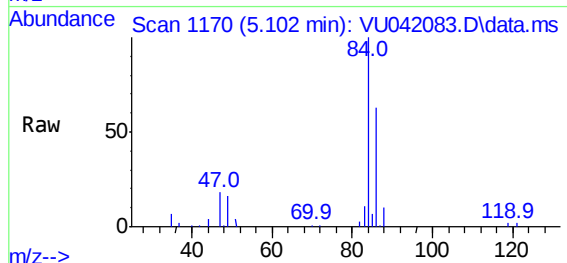




#25  
Chloroform  
Concen: 0.19 ug/L  
RT: 5.102 min Scan# 1170  
Delta R.T. 0.000 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

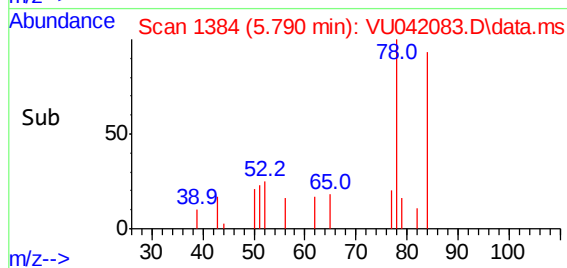
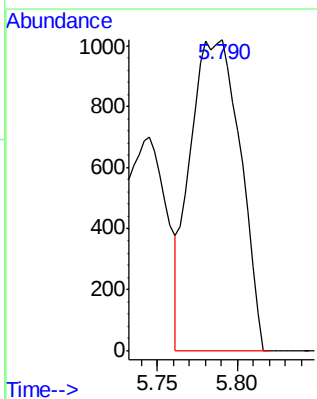
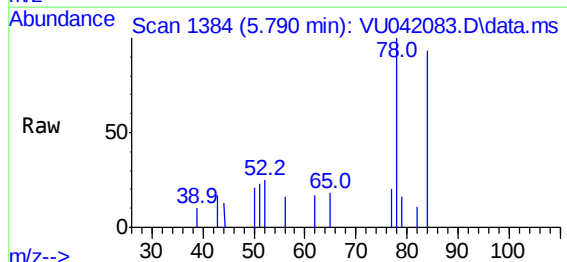
Instrument :  
MSVOA\_U  
ClientSampled :  
BFXP9

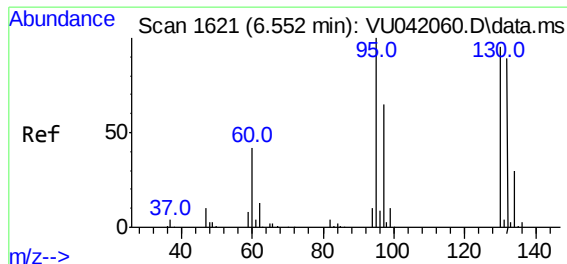
Tgt Ion: 83 Resp: 3297  
Ion Ratio Lower Upper  
83 100  
85 63.0 46.1 85.7



#33  
Benzene  
Concen: 0.05 ug/L  
RT: 5.790 min Scan# 1384  
Delta R.T. 0.006 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

Tgt Ion: 78 Resp: 2176



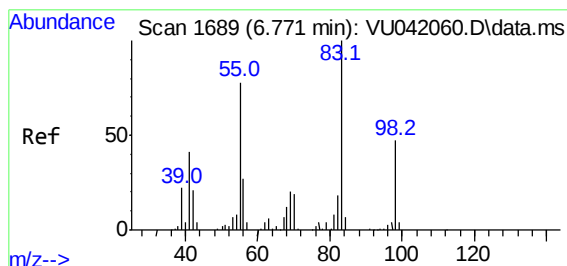
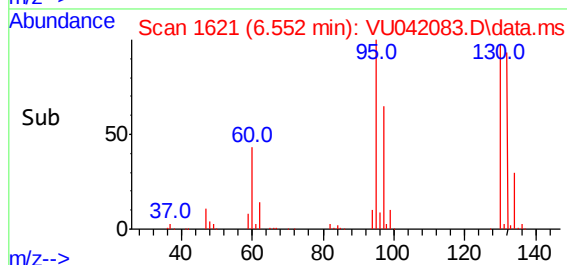
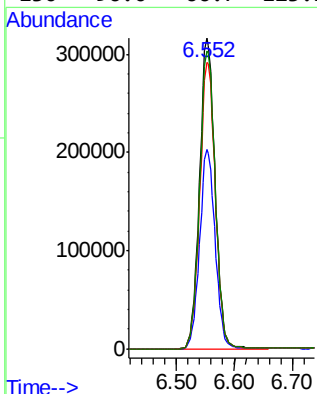
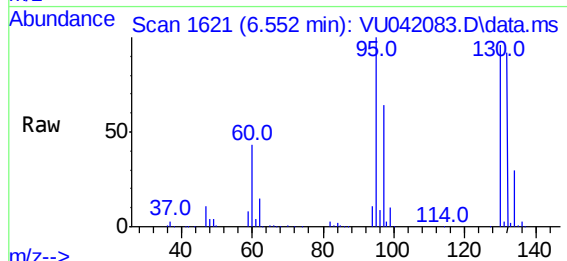


#34  
Trichloroethene  
Concen: 52.96 ug/L  
RT: 6.552 min Scan# 1621  
Delta R.T. 0.000 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFXP9

Tgt Ion: 95 Resp: 588154

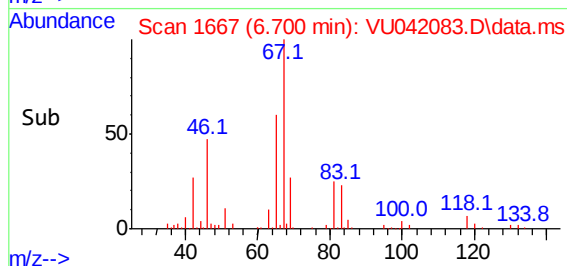
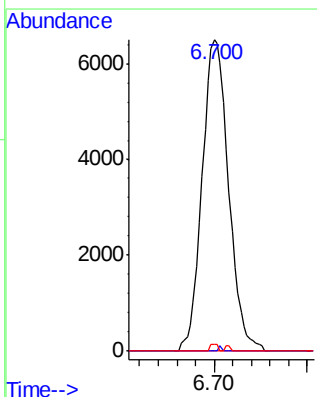
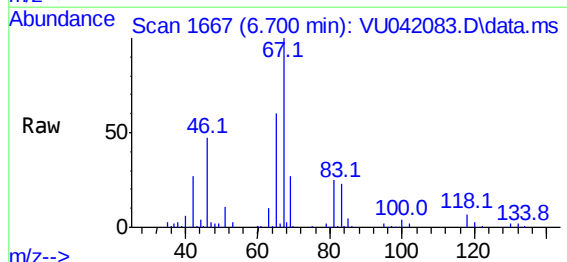
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.2  | 43.6  | 81.0  |
| 132 | 92.0  | 64.3  | 119.3 |
| 130 | 96.0  | 66.7  | 123.9 |

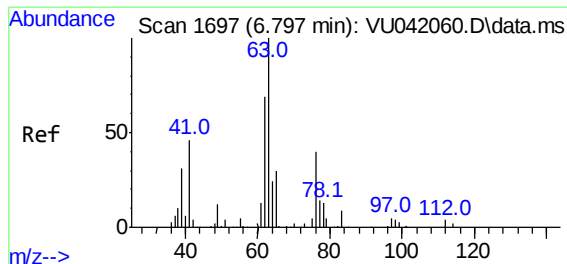


#35  
Methylcyclohexane  
Concen: 0.73 ug/L  
RT: 6.700 min Scan# 1667  
Delta R.T. -0.071 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

Tgt Ion: 83 Resp: 12812

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 83  | 100   |       |        |
| 55  | 0.1   | 66.8  | 100.2# |
| 98  | 0.0   | 35.7  | 53.5#  |

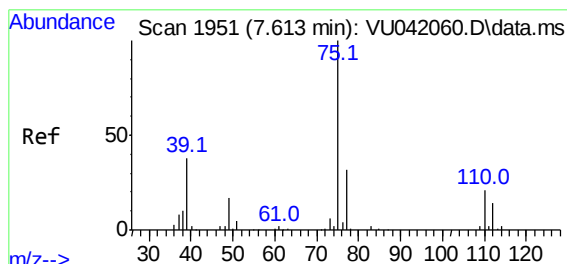
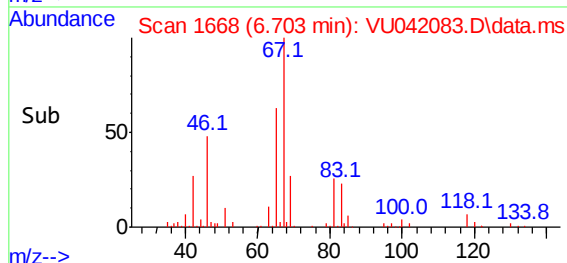
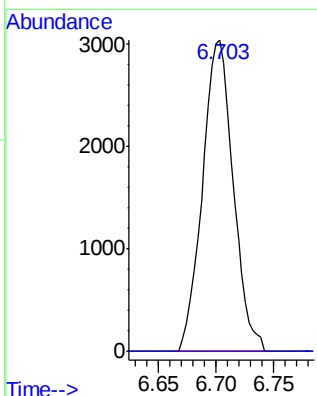
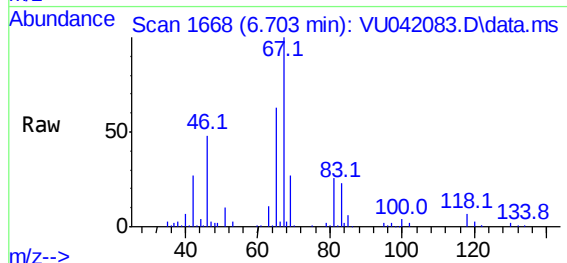




#37  
1,2-Dichloropropane  
Concen: 0.48 ug/L  
RT: 6.703 min Scan# 1668  
Delta R.T. -0.093 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

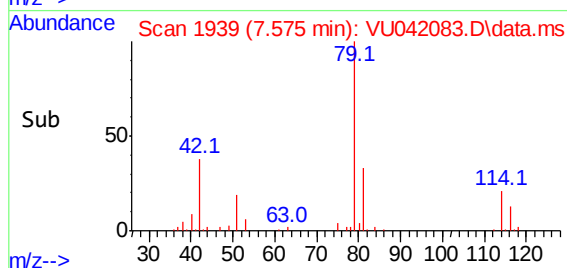
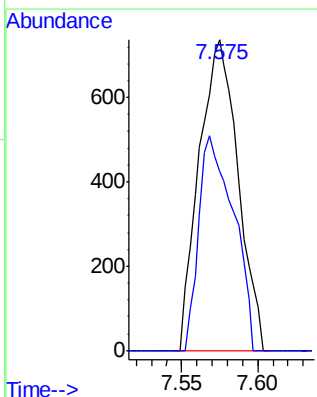
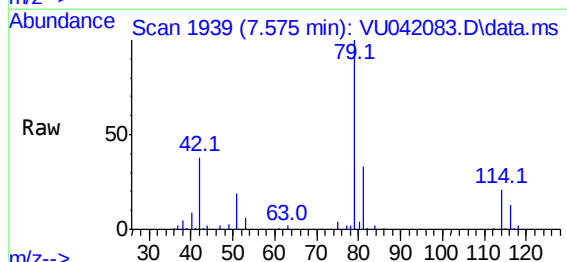
Instrument :  
MSVOA\_U  
ClientSampled :  
BFXP9

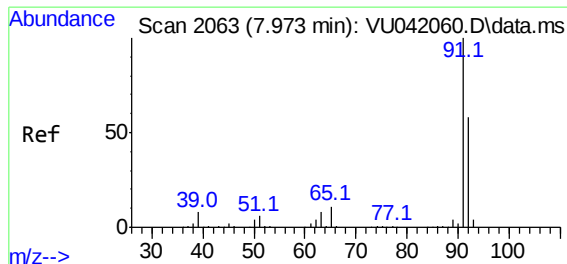
Tgt Ion: 63 Resp: 5578  
Ion Ratio Lower Upper  
63 100  
112 0.0 2.7 4.1#



#39  
cis-1,3-Dichloropropene  
Concen: 0.08 ug/L  
RT: 7.575 min Scan# 1939  
Delta R.T. -0.039 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

Tgt Ion: 75 Resp: 1311  
Ion Ratio Lower Upper  
75 100  
77 57.7 21.9 40.7#

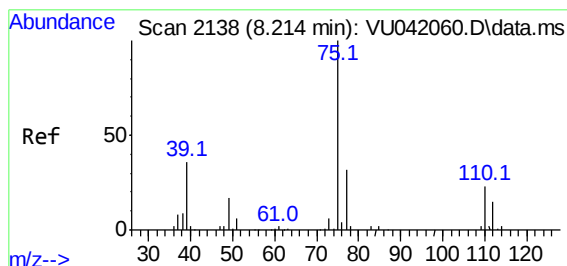
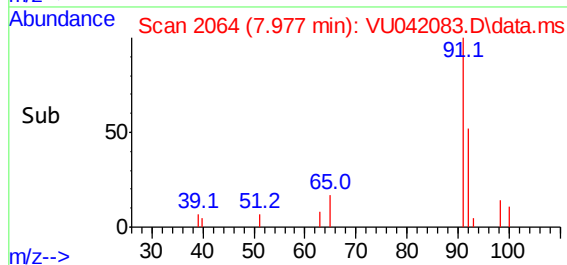
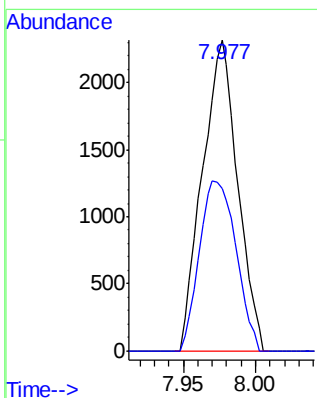
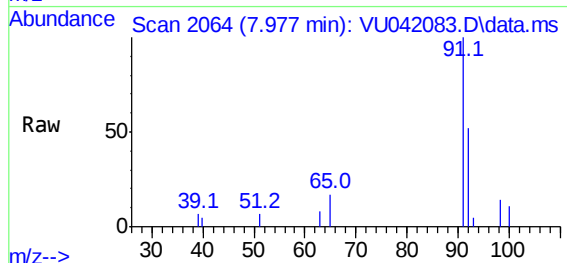




#42  
Toluene  
Concen: 0.08 ug/L  
RT: 7.977 min Scan# 2064  
Delta R.T. 0.003 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

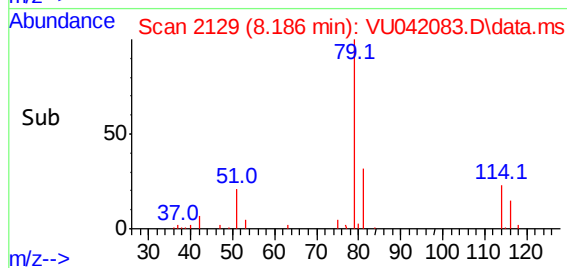
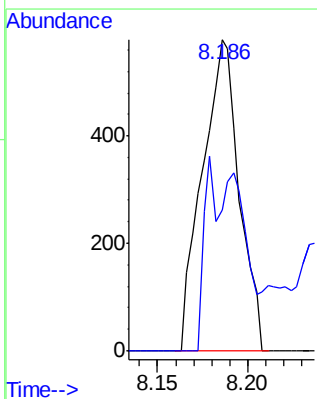
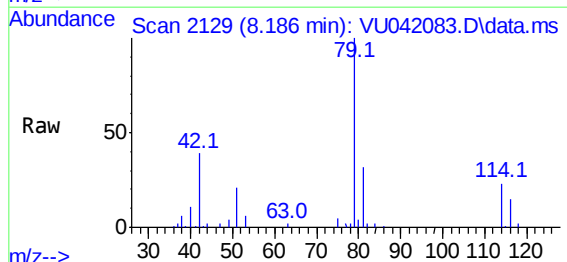
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFXP9

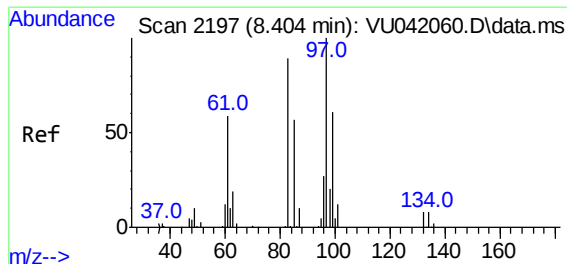
Tgt Ion: 91 Resp: 3918  
Ion Ratio Lower Upper  
91 100  
92 52.4 40.7 75.7



#44  
trans-1,3-Dichloropropene  
Concen: 0.05 ug/L  
RT: 8.186 min Scan# 2129  
Delta R.T. -0.029 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

Tgt Ion: 75 Resp: 815  
Ion Ratio Lower Upper  
75 100  
77 45.4 22.0 41.0#



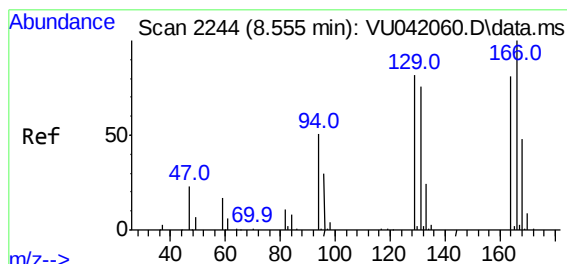
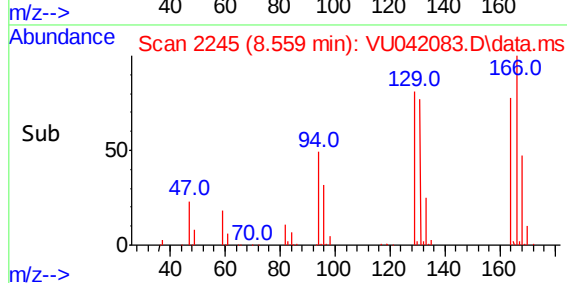
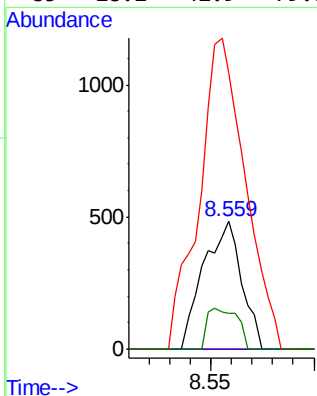
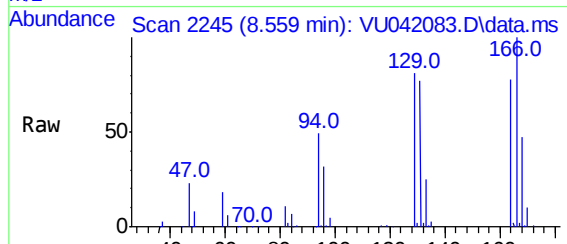


#45  
1,1,2-Trichloroethane  
Concen: 0.08 ug/L  
RT: 8.559 min Scan# 2245  
Delta R.T. 0.154 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFXP9

Tgt Ion: 97 Resp: 621

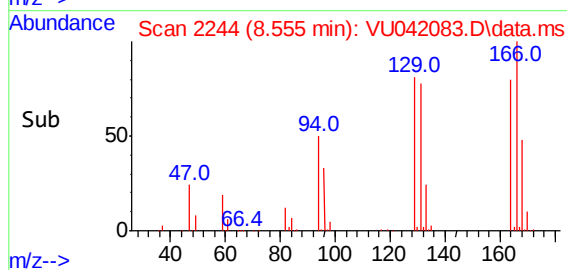
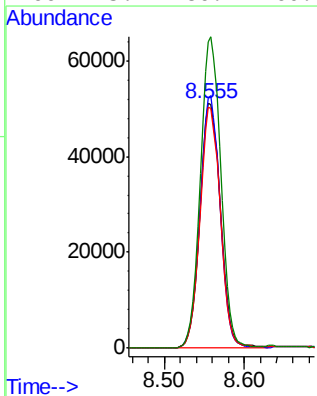
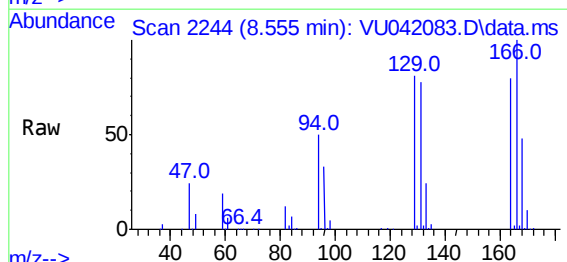
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 97  | 100   |       |        |
| 99  | 0.0   | 44.7  | 83.1#  |
| 83  | 216.6 | 61.6  | 114.4# |
| 85  | 28.2  | 42.9  | 79.7#  |

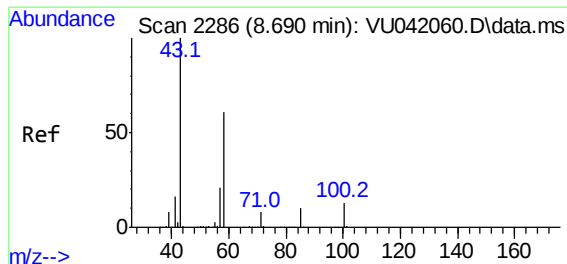


#47  
Tetrachloroethene  
Concen: 12.15 ug/L  
RT: 8.555 min Scan# 2244  
Delta R.T. 0.000 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

Tgt Ion: 164 Resp: 87433

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 102.2 | 68.7  | 127.5 |
| 131 | 98.4  | 65.2  | 121.0 |
| 166 | 125.4 | 86.2  | 160.0 |

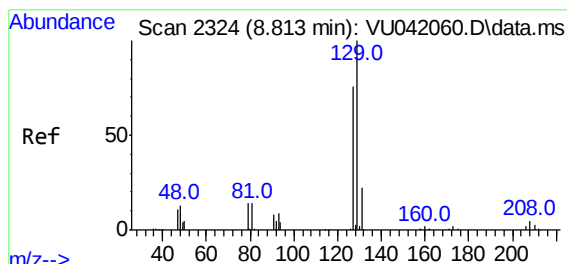
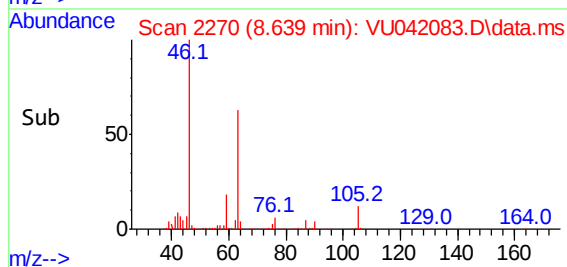
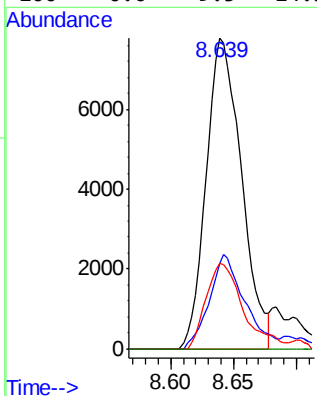
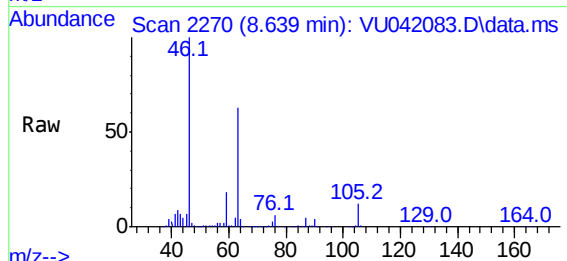




#48  
2-Hexanone  
Concen: 2.84 ug/L  
RT: 8.639 min Scan# 2270  
Delta R.T. -0.051 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

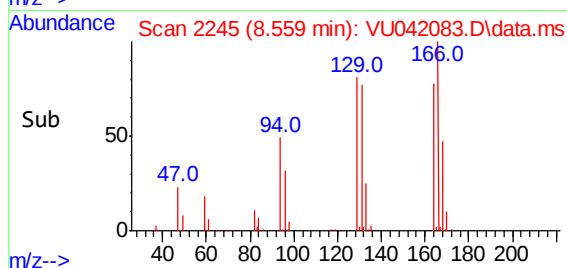
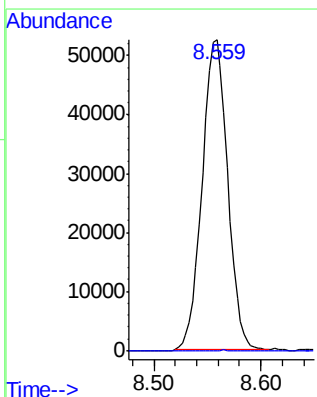
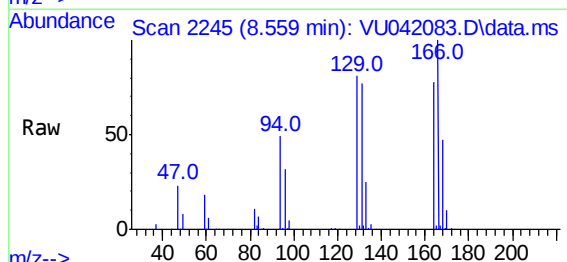
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFXP9

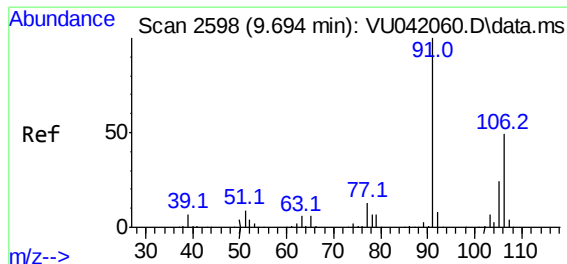
Tgt Ion: 43 Resp: 15268  
Ion Ratio Lower Upper  
43 100  
58 30.5 47.8 71.8#  
57 28.8 17.4 26.0#  
100 0.0 9.5 14.3#



#49  
Dibromochloromethane  
Concen: 9.69 ug/L  
RT: 8.559 min Scan# 2245  
Delta R.T. -0.254 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

Tgt Ion: 129 Resp: 86120  
Ion Ratio Lower Upper  
129 100  
127 0.0 53.7 99.7#

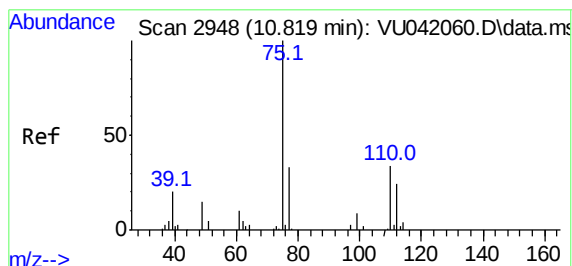
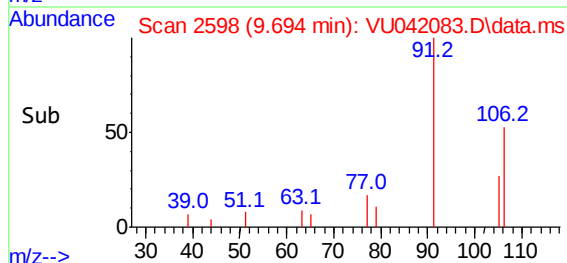
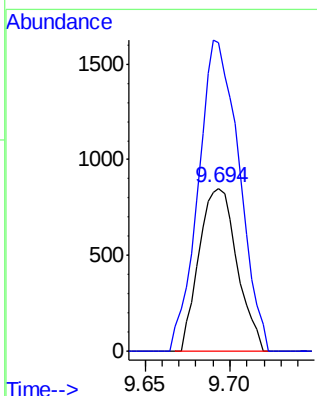
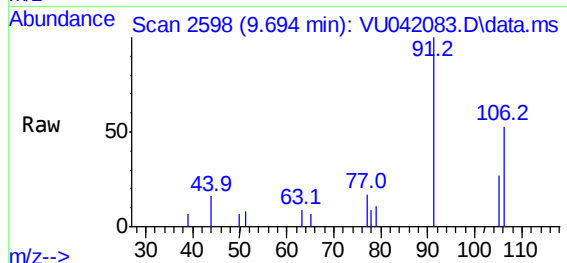




#53  
m,p-Xylene  
Concen: 0.08 ug/L  
RT: 9.694 min Scan# 2598  
Delta R.T. 0.000 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

Instrument :  
MSVOA\_U  
ClientSampled :  
BFXP9

Tgt Ion:106 Resp: 1321  
Ion Ratio Lower Upper  
106 100  
91 189.8 145.7 270.5



#59  
1,2,3-Trichloropropane  
Concen: 0.87 ug/L  
RT: 11.809 min Scan# 3256  
Delta R.T. 0.990 min  
Lab File: VU042083.D  
Acq: 15 Jan 2021 19:38

Tgt Ion: 75 Resp: 6569  
Ion Ratio Lower Upper  
75 100  
77 33.0 25.6 38.4

