

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU112022\  
 Data File : VU051985.D  
 Acq On : 20 Nov 2022 19:58  
 Operator : JC/MD  
 Sample : N5710-10  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0KY9

Quant Time: Nov 21 01:03:31 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM111522WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 18 00:53:49 2022  
 Response via : Initial Calibration

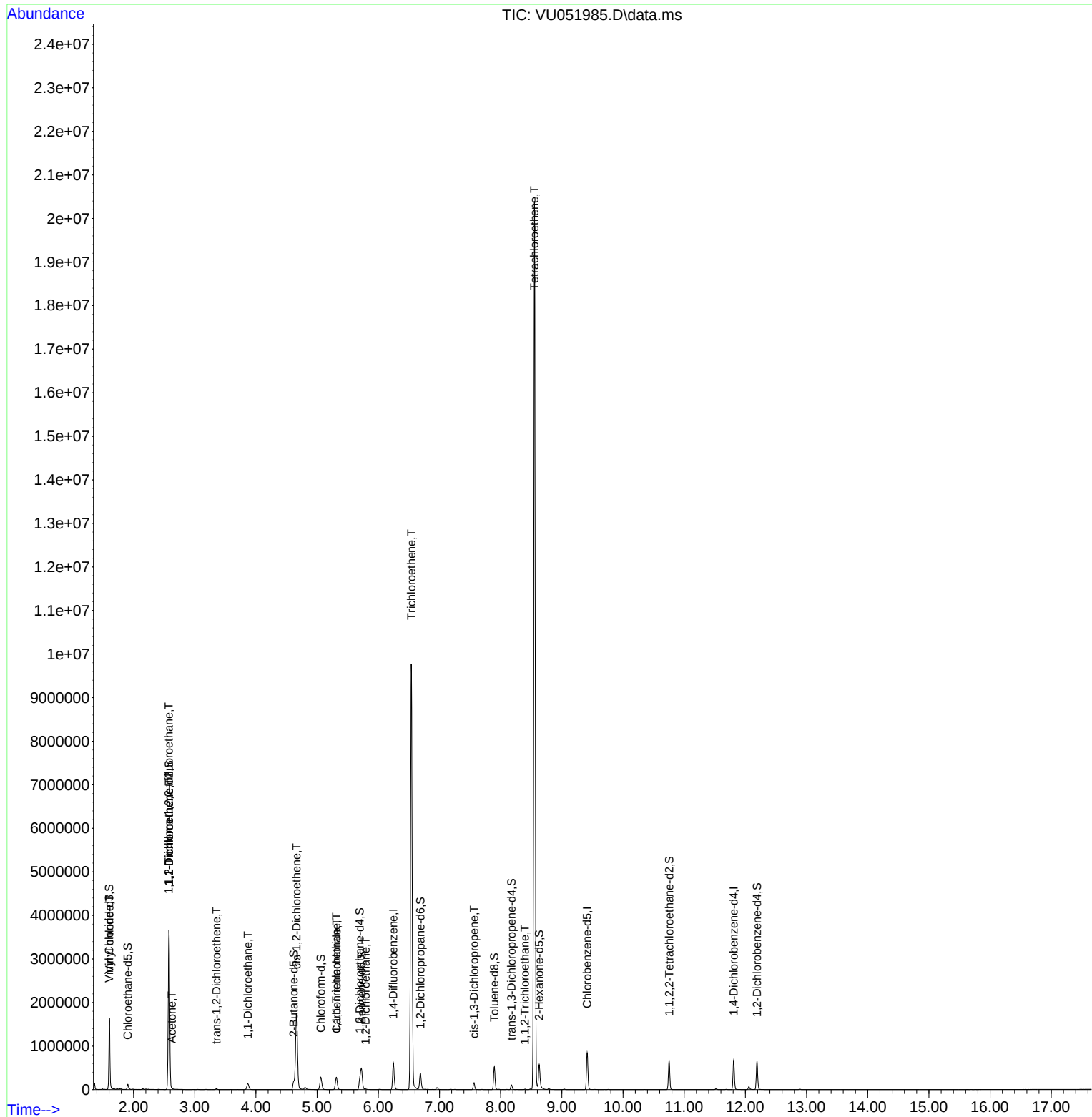
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) 1,4-Difluorobenzene        | 6.247          | 114  | 495527     | 50.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414          | 117  | 490024     | 50.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809         | 152  | 188423     | 50.000    | ug/L   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 4) Vinyl Chloride-d3          | 1.601          | 65   | 96289      | 39.581    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 79.160%   |        |          |
| 7) Chloroethane-d5            | 1.906          | 69   | 102324     | 41.981    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 83.960%   |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.578          | 63   | 764695     | 175.292   | ug/L   | 0.01     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 350.580%# |        |          |
| 21) 2-Butanone-d5             | 4.617          | 46   | 261982     | 94.706    | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 94.710%   |        |          |
| 24) Chloroform-d              | 5.060          | 84   | 268147     | 43.971    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 87.940%   |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.697          | 65   | 171606     | 45.970    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 91.940%   |        |          |
| 32) Benzene-d6                | 5.726          | 84   | 477777     | 46.762    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 93.520%   |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.687          | 67   | 188862     | 49.659    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 99.320%   |        |          |
| 41) Toluene-d8                | 7.896          | 98   | 362648     | 43.243    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 86.480%   |        |          |
| 43) trans-1,3-Dichloroprop... | 8.176          | 79   | 62537      | 41.283    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 82.560%   |        |          |
| 47) 2-Hexanone-d5             | 8.629          | 63   | 195935     | 101.371   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 101.370%  |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755         | 84   | 341571     | 46.146    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 92.300%   |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.192         | 152  | 182011     | 54.890    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 109.780%  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 5) Vinyl chloride             | 1.604          | 62   | 1067007    | 254.618   | ug/L   | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575          | 101  | 3912       | 1.237     | ug/L # | 26       |
| 12) 1,1-Dichloroethene        | 2.578          | 96   | 1274267    | 431.506   | ug/L # | 83       |
| 13) Acetone                   | 2.623          | 43   | 12774      | 4.316     | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 3.353          | 96   | 8344       | 2.622     | ug/L   | 96       |
| 19) 1,1-Dichloroethane        | 3.867          | 63   | 162275     | 25.054    | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.665          | 96   | 949718     | 255.709   | ug/L   | 100      |
| 27) 1,2-Dichloroethane        | 5.793          | 62   | 7365       | 1.475     | ug/L # | 94       |
| 30) 1,1,1-Trichloroethane     | 5.314          | 97   | 202052     | 40.784    | ug/L   | 98       |
| 31) Carbon tetrachloride      | 5.317          | 117  | 27432      | 6.623     | ug/L   | 100      |
| 34) Trichloroethene           | 6.539          | 95   | 3422722    | 1024.957  | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene   | 7.565          | 75   | 3625       | 0.694     | ug/L # | 59       |
| 45) 1,1,2-Trichloroethane     | 8.398          | 97   | 3631       | 0.895     | ug/L   | 96       |
| 46) Tetrachloroethene         | 8.552          | 164  | 4465784    | 1674.529  | ug/L   | 98       |
| -----                         |                |      |            |           |        |          |

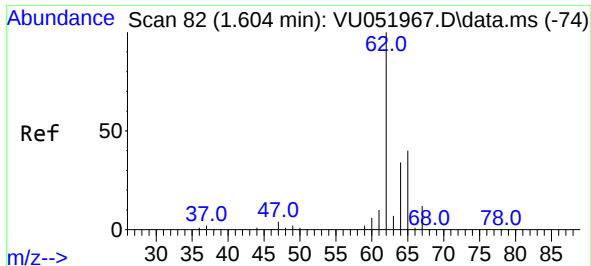
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU112022\  
Data File : VU051985.D  
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Sample : N5710-10  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0KY9

Quant Time: Nov 21 01:03:31 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM111522WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 18 00:53:49 2022  
Response via : Initial Calibration

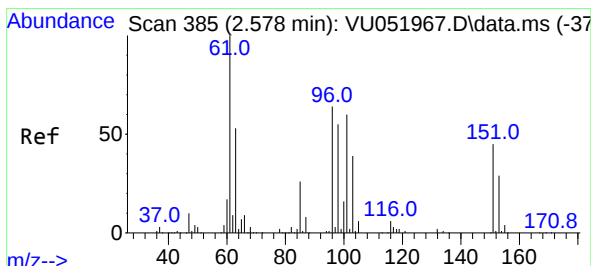
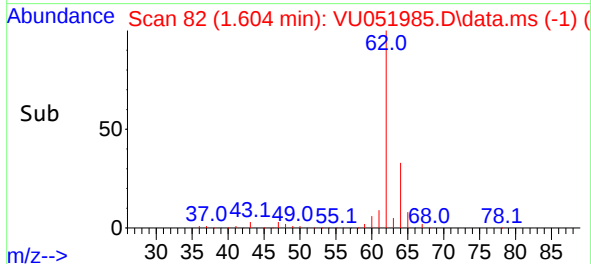
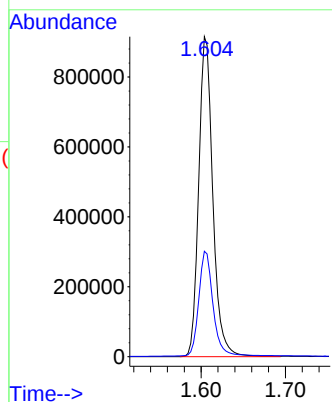
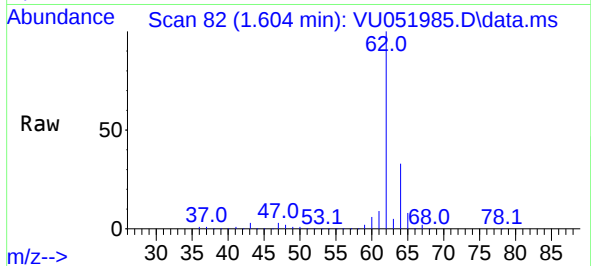




#5  
 Vinyl chloride  
 Concen: 254.618 ug/L  
 RT: 1.604 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: VU051985.D  
 Acq: 20 Nov 2022 19:58

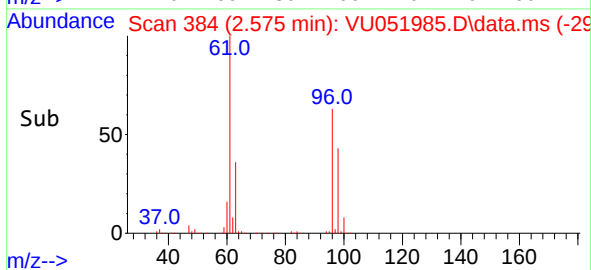
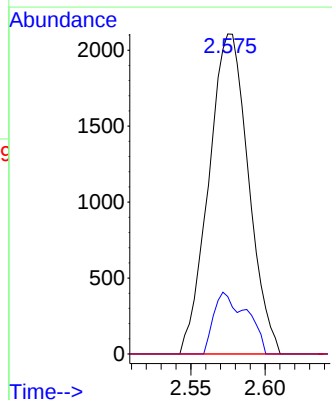
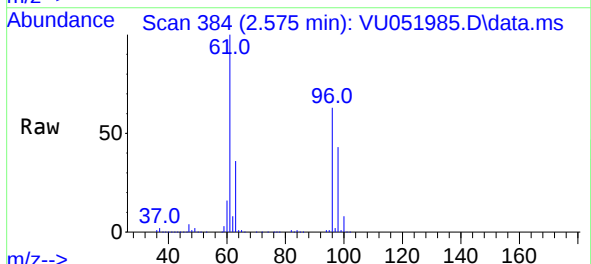
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0KY9

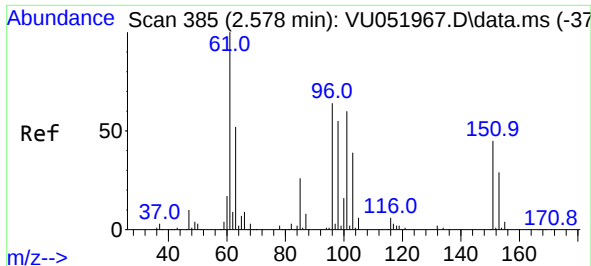
Tgt Ion: 62 Resp: 1067007  
 Ion Ratio Lower Upper  
 62 100  
 64 32.9 24.3 45.1



#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 1.237 ug/L  
 RT: 2.575 min Scan# 384  
 Delta R.T. -0.000 min  
 Lab File: VU051985.D  
 Acq: 20 Nov 2022 19:58

Tgt Ion: 101 Resp: 3912  
 Ion Ratio Lower Upper  
 101 100  
 85 10.3 34.2 51.2#  
 151 0.0 58.3 87.5#

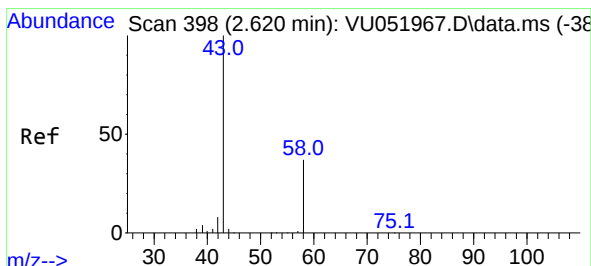
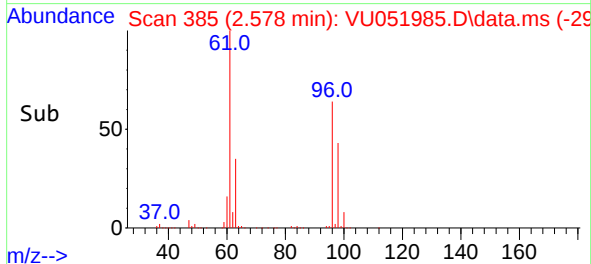
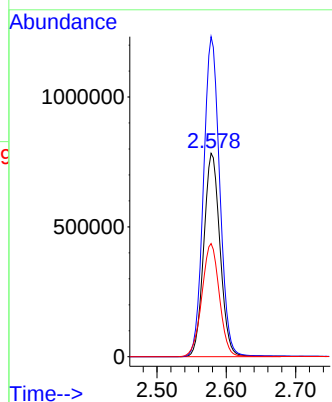
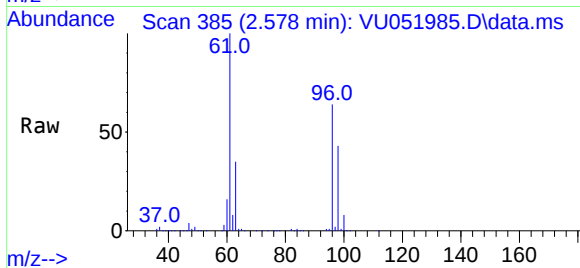




#12  
1,1-Dichloroethene  
Concen: 431.506 ug/L  
RT: 2.578 min Scan# 385  
Delta R.T. 0.003 min  
Lab File: VU051985.D  
Acq: 20 Nov 2022 19:58

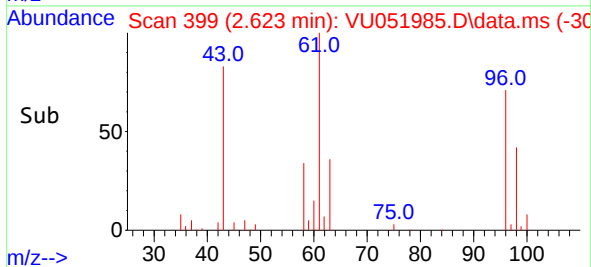
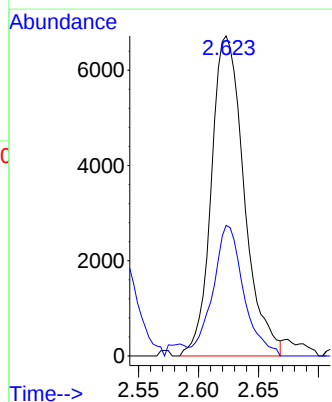
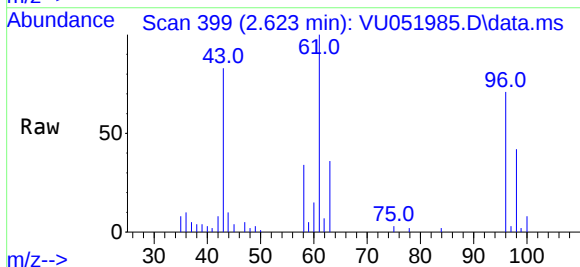
Instrument :  
MSVOA\_U  
ClientSampleId :  
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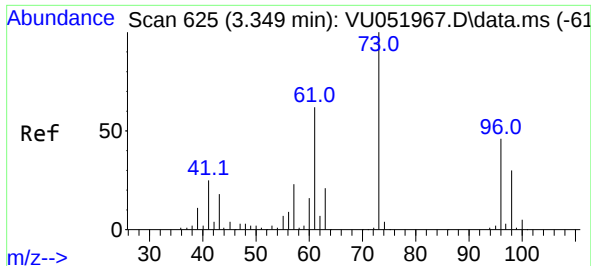
Tgt Ion: 96 Resp: 1274267  
Ion Ratio Lower Upper  
96 100  
61 157.3 110.7 205.5  
63 55.6 68.6 127.4#



#13  
Acetone  
Concen: 4.316 ug/L  
RT: 2.623 min Scan# 399  
Delta R.T. 0.003 min  
Lab File: VU051985.D  
Acq: 20 Nov 2022 19:58

Tgt Ion: 43 Resp: 12774  
Ion Ratio Lower Upper  
43 100  
58 38.2 0.0 75.4

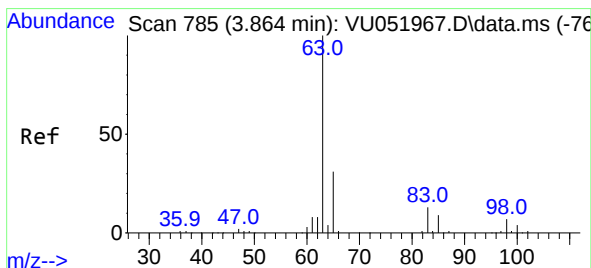
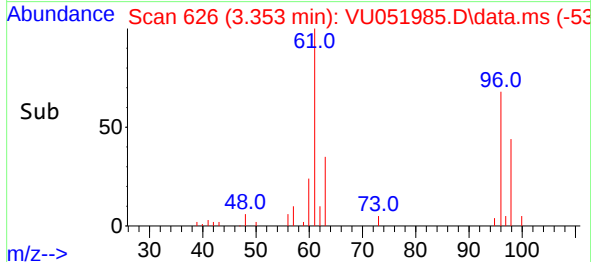
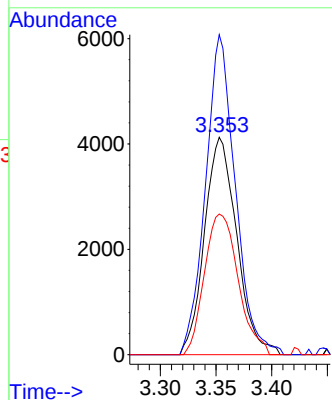
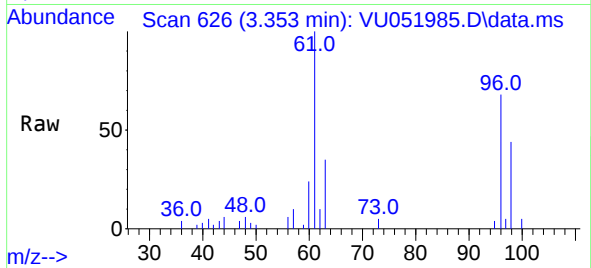




#17  
trans-1,2-Dichloroethene  
Concen: 2.622 ug/L  
RT: 3.353 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VU051985.D  
Acq: 20 Nov 2022 19:58

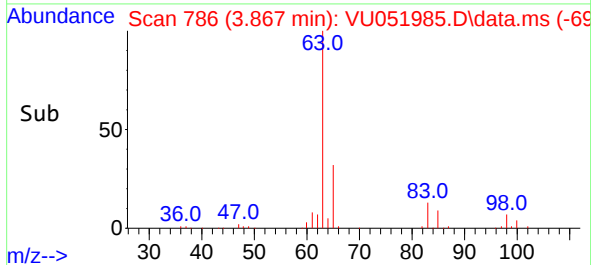
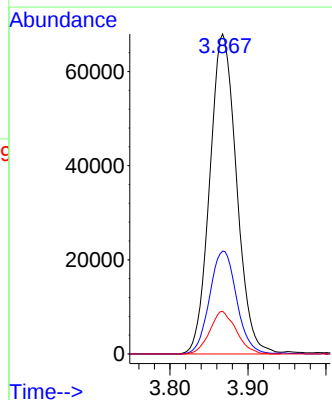
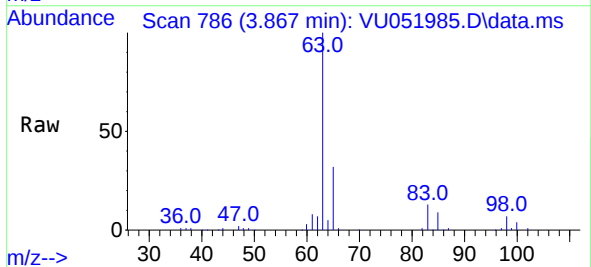
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0KY9

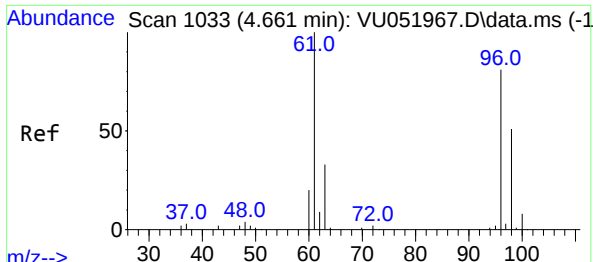
Tgt Ion: 96 Resp: 8344  
Ion Ratio Lower Upper  
96 100  
61 147.2 98.3 182.7  
98 64.7 45.5 84.5



#19  
1,1-Dichloroethane  
Concen: 25.054 ug/L  
RT: 3.867 min Scan# 786  
Delta R.T. 0.003 min  
Lab File: VU051985.D  
Acq: 20 Nov 2022 19:58

Tgt Ion: 63 Resp: 162275  
Ion Ratio Lower Upper  
63 100  
65 32.2 22.2 41.2  
83 13.4 9.6 17.8



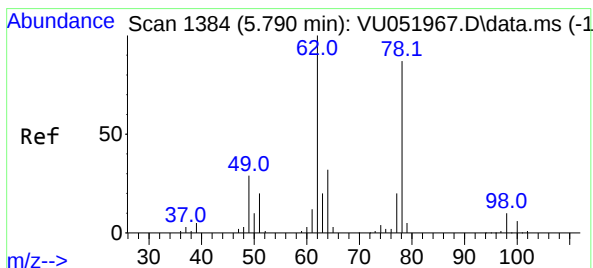
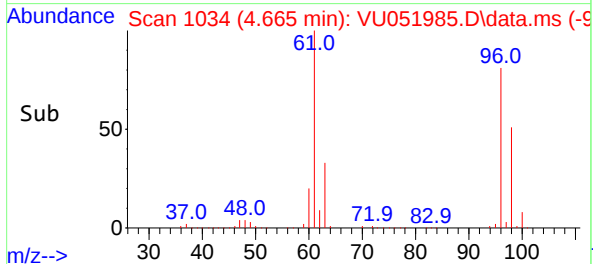
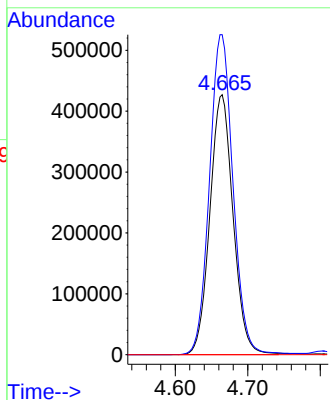
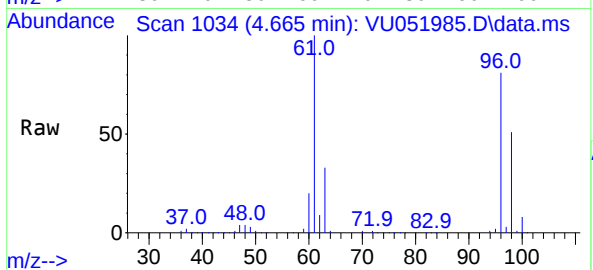


#20  
 cis-1,2-Dichloroethene  
 Concen: 255.709 ug/L  
 RT: 4.665 min Scan# 1033  
 Delta R.T. -0.000 min  
 Lab File: VU051985.D  
 Acq: 20 Nov 2022 19:58

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0KY9

Tgt Ion: 96 Resp: 949718

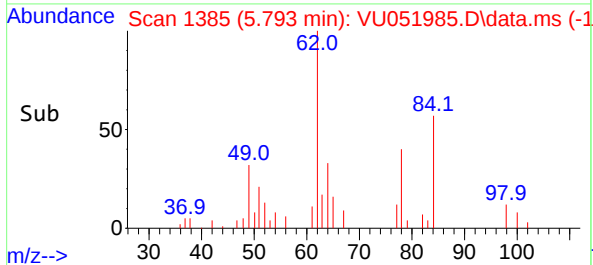
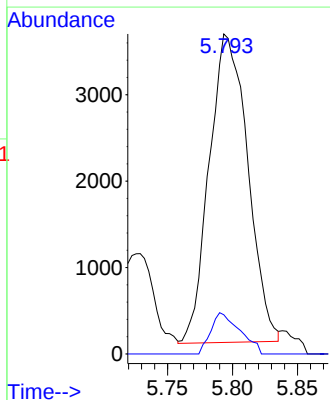
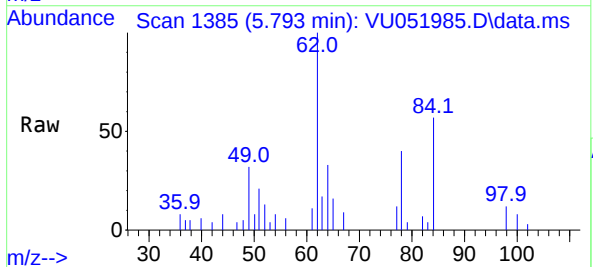
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 123.0 | 86.0  | 159.8 |
| 68  | 0.0   | 0.0   | 0.0   |

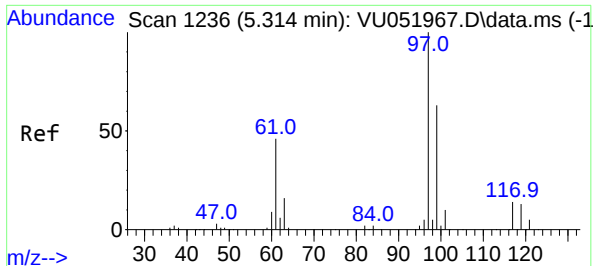


#27  
 1,2-Dichloroethane  
 Concen: 1.475 ug/L  
 RT: 5.793 min Scan# 1385  
 Delta R.T. 0.003 min  
 Lab File: VU051985.D  
 Acq: 20 Nov 2022 19:58

Tgt Ion: 62 Resp: 7365

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 62  | 100   |       |       |
| 98  | 12.2  | 8.1   | 12.1# |

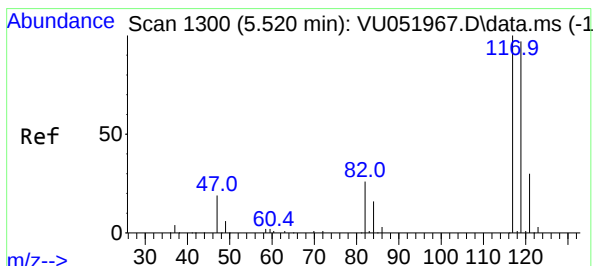
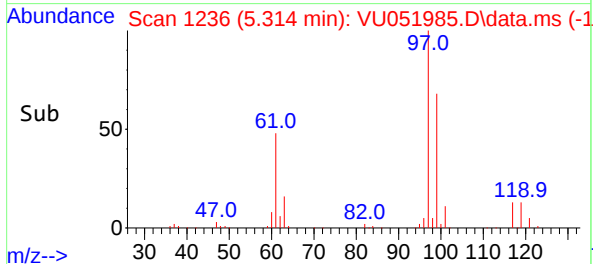
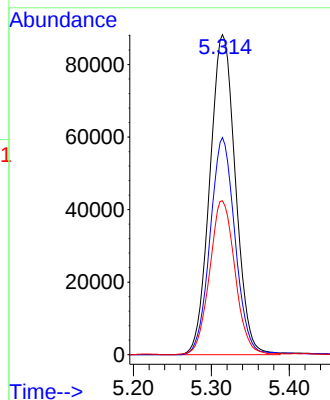
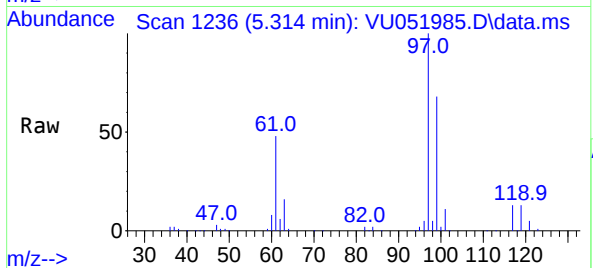




#30  
1,1,1-Trichloroethane  
Concen: 40.784 ug/L  
RT: 5.314 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VU051985.D  
Acq: 20 Nov 2022 19:58

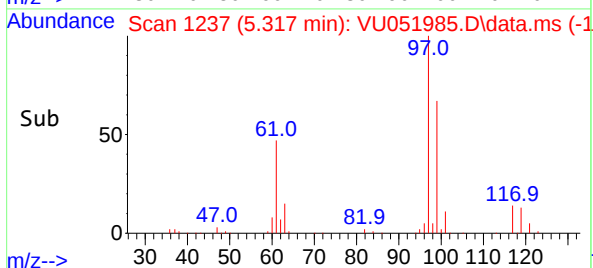
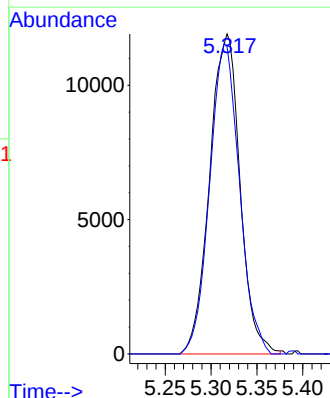
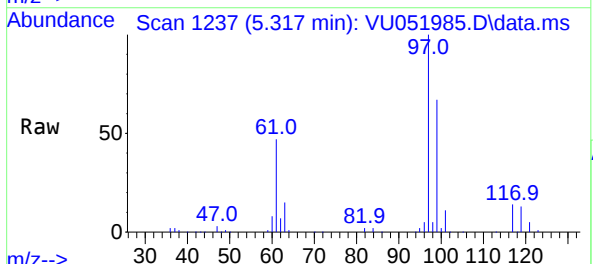
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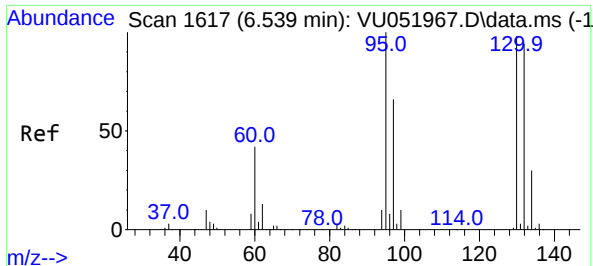
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|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 202052 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 66.0  | 51.2  | 76.8   |
| 61       | 47.6  | 37.4  | 56.2   |



#31  
Carbon tetrachloride  
Concen: 6.623 ug/L  
RT: 5.317 min Scan# 1237  
Delta R.T. -0.206 min  
Lab File: VU051985.D  
Acq: 20 Nov 2022 19:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 27432 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 94.8  | 75.6  | 113.4 |



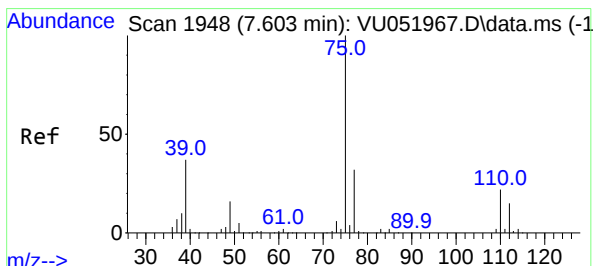
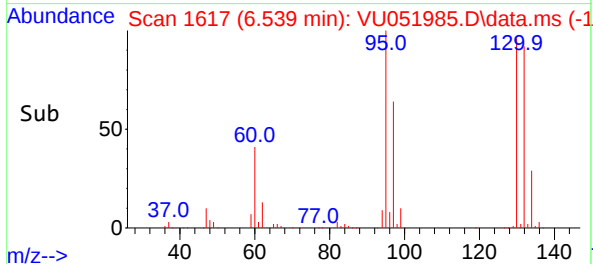
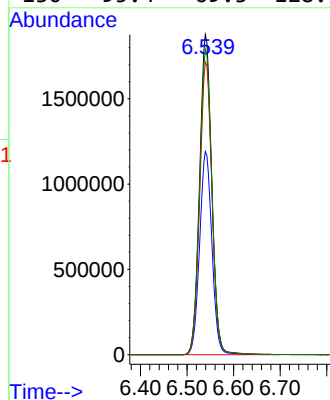
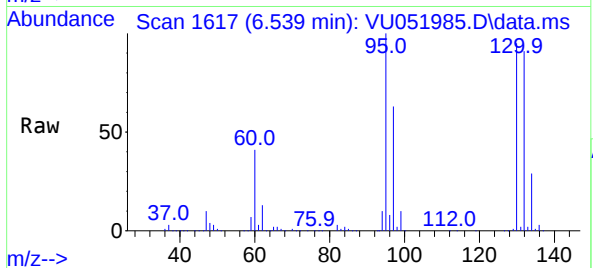


#34  
Trichloroethene  
Concen: 1024.957 ug/L  
RT: 6.539 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VU051985.D  
Acq: 20 Nov 2022 19:58

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0KY9

Tgt Ion: 95 Resp: 3422722

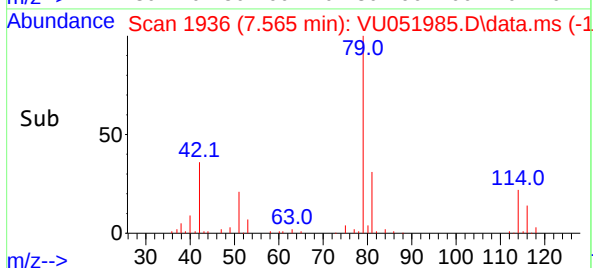
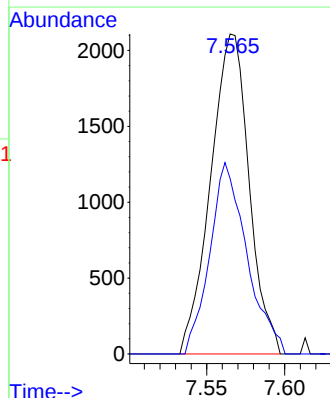
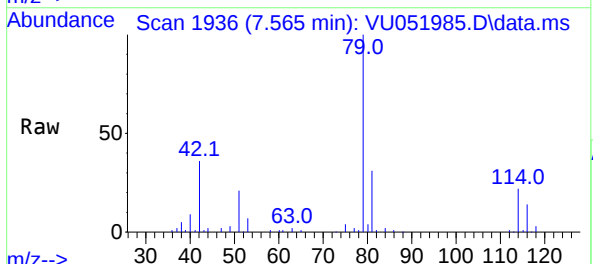
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 63.4  | 45.8  | 85.0  |
| 132 | 91.5  | 65.3  | 121.3 |
| 130 | 95.4  | 69.3  | 128.7 |

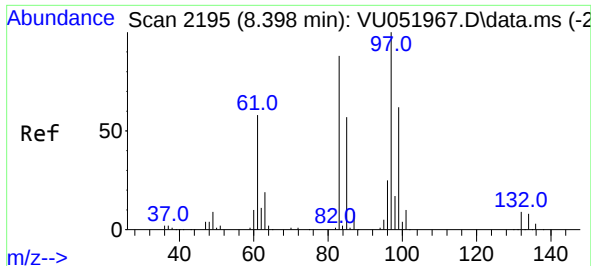


#39  
cis-1,3-Dichloropropene  
Concen: 0.694 ug/L  
RT: 7.565 min Scan# 1936  
Delta R.T. -0.042 min  
Lab File: VU051985.D  
Acq: 20 Nov 2022 19:58

Tgt Ion: 75 Resp: 3625

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 54.8  | 22.5  | 41.7# |



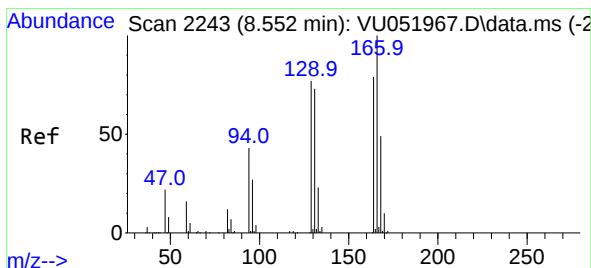
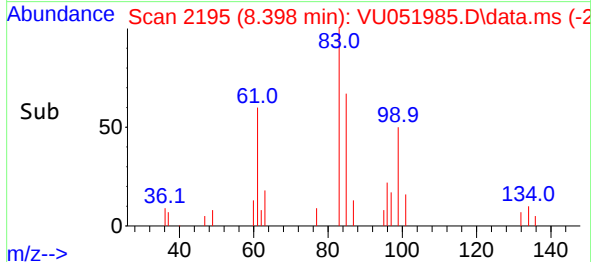
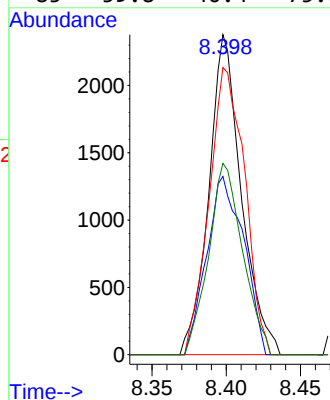
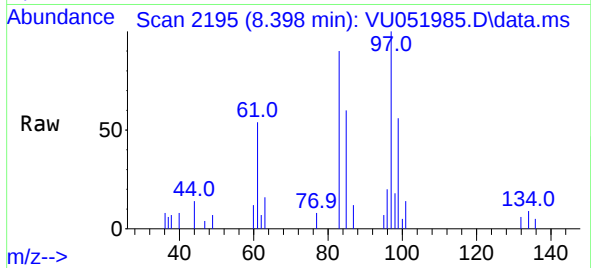


#45  
1,1,2-Trichloroethane  
Concen: 0.895 ug/L  
RT: 8.398 min Scan# 2195  
Delta R.T. -0.000 min  
Lab File: VU051985.D  
Acq: 20 Nov 2022 19:58

Instrument :  
MSVOA\_U  
ClientSampleId :  
COKY9

Tgt Ion: 97 Resp: 3631

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 55.7  | 44.3  | 82.3  |
| 83  | 89.8  | 62.3  | 115.7 |
| 85  | 59.8  | 40.4  | 75.0  |



#46  
Tetrachloroethene  
Concen: 1674.529 ug/L  
RT: 8.552 min Scan# 2243  
Delta R.T. -0.000 min  
Lab File: VU051985.D  
Acq: 20 Nov 2022 19:58

Tgt Ion: 164 Resp: 4465784

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 100.2 | 68.5  | 127.1 |
| 131 | 95.7  | 66.6  | 123.8 |
| 166 | 126.9 | 91.9  | 170.7 |

