

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU060922\  
 Data File : VU048979.D  
 Acq On : 09 Jun 2022 15:07  
 Operator : SY/MD  
 Sample : N3248-04  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EXYW9

Quant Time: Jun 10 01:03:52 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM051622WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jun 10 01:01:44 2022  
 Response via : Initial Calibration

| Compound                      | R.T. QIon |       | Response | Conc    | Units     | Dev(Min) |
|-------------------------------|-----------|-------|----------|---------|-----------|----------|
| -----                         |           |       |          |         |           |          |
| Internal Standards            |           |       |          |         |           |          |
| 1) 1,4-Difluorobenzene        | 6.247     | 114   | 313486   | 50.000  | ug/L      | 0.00     |
| 28) Chlorobenzene-d5          | 9.417     | 117   | 298210   | 50.000  | ug/L      | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812    | 152   | 143589   | 50.000  | ug/L      | 0.00     |
|                               |           |       |          |         |           |          |
| System Monitoring Compounds   |           |       |          |         |           |          |
| 4) Vinyl Chloride-d3          | 1.597     | 65    | 103306   | 53.803  | ug/L      | 0.00     |
| Spiked Amount 50.000          | Range 60  | - 135 | Recovery | =       | 107.600%  |          |
| 7) Chloroethane-d5            | 1.887     | 69    | 75329    | 52.366  | ug/L      | -0.02    |
| Spiked Amount 50.000          | Range 70  | - 130 | Recovery | =       | 104.740%  |          |
| 11) 1,1-Dichloroethene-d2     | 2.565     | 63    | 297732   | 68.564  | ug/L      | 0.00     |
| Spiked Amount 50.000          | Range 60  | - 125 | Recovery | =       | 137.120%# |          |
| 21) 2-Butanone-d5             | 4.620     | 46    | 225395   | 123.355 | ug/L      | 0.00     |
| Spiked Amount 100.000         | Range 40  | - 130 | Recovery | =       | 123.360%  |          |
| 24) Chloroform-d              | 5.060     | 84    | 210613   | 43.407  | ug/L      | 0.00     |
| Spiked Amount 50.000          | Range 70  | - 125 | Recovery | =       | 86.820%   |          |
| 26) 1,2-Dichloroethane-d4     | 5.700     | 65    | 137632   | 40.207  | ug/L      | 0.00     |
| Spiked Amount 50.000          | Range 70  | - 125 | Recovery | =       | 80.420%   |          |
| 32) Benzene-d6                | 5.726     | 84    | 392362   | 47.276  | ug/L      | 0.00     |
| Spiked Amount 50.000          | Range 70  | - 125 | Recovery | =       | 94.560%   |          |
| 36) 1,2-Dichloropropane-d6    | 6.690     | 67    | 133556   | 54.816  | ug/L      | 0.00     |
| Spiked Amount 50.000          | Range 70  | - 120 | Recovery | =       | 109.640%  |          |
| 41) Toluene-d8                | 7.899     | 98    | 353573   | 45.292  | ug/L      | 0.00     |
| Spiked Amount 50.000          | Range 80  | - 120 | Recovery | =       | 90.580%   |          |
| 43) trans-1,3-Dichloroprop... | 8.179     | 79    | 65322    | 41.927  | ug/L      | 0.00     |
| Spiked Amount 50.000          | Range 60  | - 125 | Recovery | =       | 83.860%   |          |
| 47) 2-Hexanone-d5             | 8.632     | 63    | 154701   | 115.778 | ug/L      | 0.00     |
| Spiked Amount 100.000         | Range 45  | - 130 | Recovery | =       | 115.780%  |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758    | 84    | 222443   | 55.174  | ug/L      | 0.00     |
| Spiked Amount 50.000          | Range 65  | - 120 | Recovery | =       | 110.340%  |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.195    | 152   | 144667   | 49.284  | ug/L      | 0.00     |
| Spiked Amount 50.000          | Range 80  | - 120 | Recovery | =       | 98.560%   |          |
|                               |           |       |          |         |           |          |
| Target Compounds              |           |       |          |         |           | Qvalue   |
| 9) Trichlorofluoromethane     | 2.124     | 101   | 9572     | 2.217   | ug/L      | 96       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.562     | 101   | 2051     | 0.932   | ug/L #    | 21       |
| 12) 1,1-Dichloroethene        | 2.571     | 96    | 287426   | 140.920 | ug/L #    | 81       |
| 17) trans-1,2-Dichloroethene  | 3.350     | 96    | 8156     | 3.708   | ug/L      | 98       |
| 19) 1,1-Dichloroethane        | 3.864     | 63    | 563660   | 139.954 | ug/L      | 99       |
| 20) cis-1,2-Dichloroethene    | 4.661     | 96    | 363821   | 146.651 | ug/L      | 99       |
| 22) 2-Butanone                | 4.713     | 43    | 3599     | 1.909   | ug/L #    | 66       |
| 25) Chloroform                | 5.086     | 83    | 24466    | 5.204   | ug/L      | 95       |
| 27) 1,2-Dichloroethane        | 5.793     | 62    | 3873     | 0.960   | ug/L      | 99       |
| 30) 1,1,1-Trichloroethane     | 5.314     | 97    | 1549946  | 343.264 | ug/L      | 99       |
| 31) Carbon tetrachloride      | 5.314     | 117   | 195979   | 47.625  | ug/L      | 97       |
| 34) Trichloroethene           | 6.539     | 95    | 305281   | 123.850 | ug/L      | 97       |
| 39) cis-1,3-Dichloropropene   | 7.565     | 75    | 3906     | 1.050   | ug/L #    | 16       |
| 44) trans-1,3-Dichloropropene | 8.179     | 75    | 2775     | 0.707   | ug/L      | 97       |
| 45) 1,1,2-Trichloroethane     | 8.401     | 97    | 7052     | 3.023   | ug/L      | 92       |
| 46) Tetrachloroethene         | 8.552     | 164   | 163542   | 81.307  | ug/L      | 98       |
| -----                         |           |       |          |         |           |          |

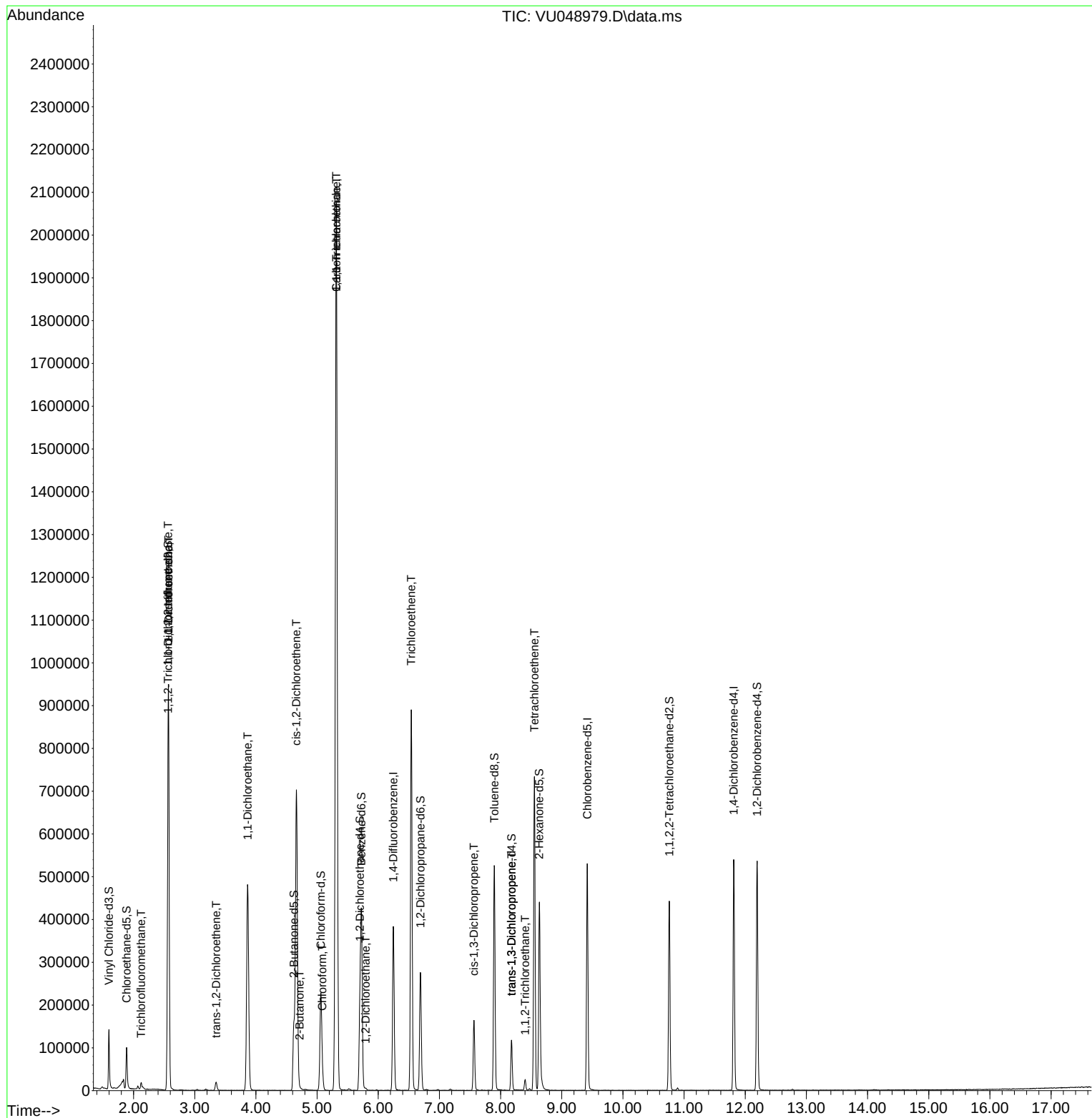
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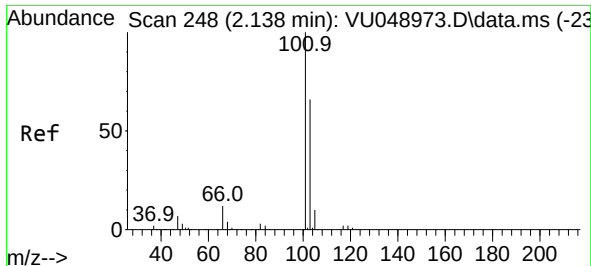
**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
EXYW9

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU060922\  
Data File : VU048979.D  
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Sample : N3248-04  
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ALS Vial : 9 Sample Multiplier: 1

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EXYW9

Quant Time: Jun 10 01:03:52 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM051622WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jun 10 01:01:44 2022  
Response via : Initial Calibration

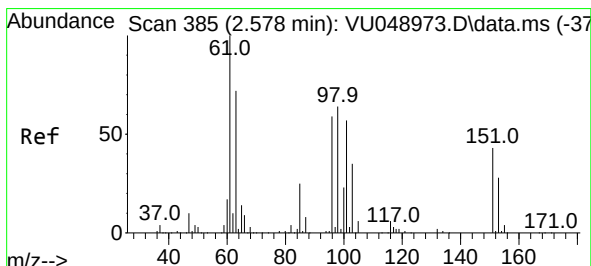
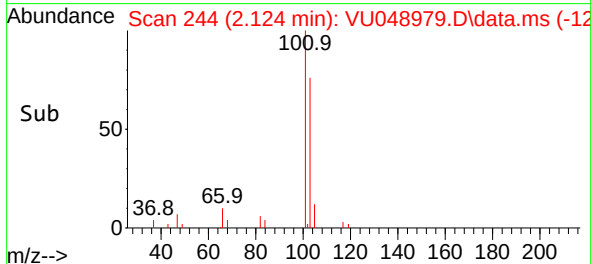
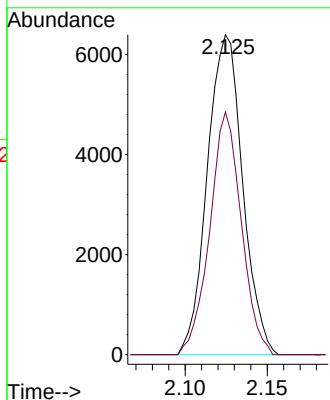
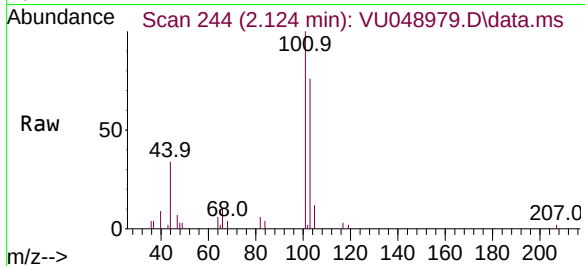




#9  
 Trichlorofluoromethane  
 Concen: 2.217 ug/L  
 RT: 2.124 min Scan# 248  
 Delta R.T. -0.013 min  
 Lab File: VU048979.D  
 Acq: 09 Jun 2022 15:07

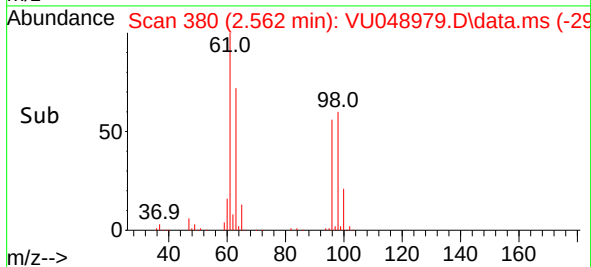
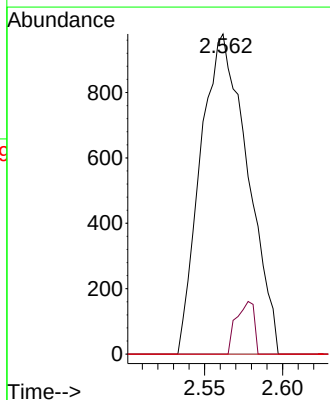
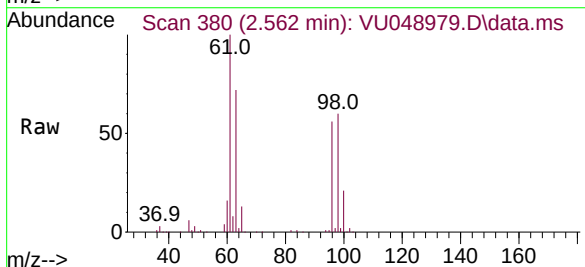
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EXYW9

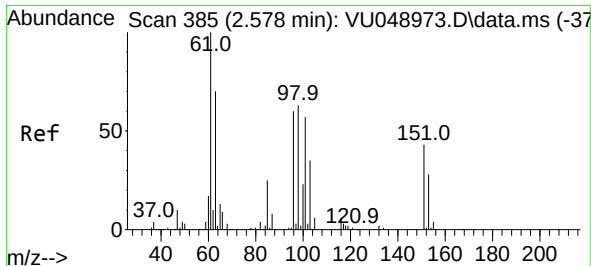
Tgt Ion:101 Resp: 9572  
 Ion Ratio Lower Upper  
 101 100  
 103 67.7 51.6 77.4



#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.932 ug/L  
 RT: 2.562 min Scan# 380  
 Delta R.T. -0.016 min  
 Lab File: VU048979.D  
 Acq: 09 Jun 2022 15:07

Tgt Ion:101 Resp: 2051  
 Ion Ratio Lower Upper  
 101 100  
 85 6.3 35.7 53.5#  
 151 0.0 64.4 96.6#

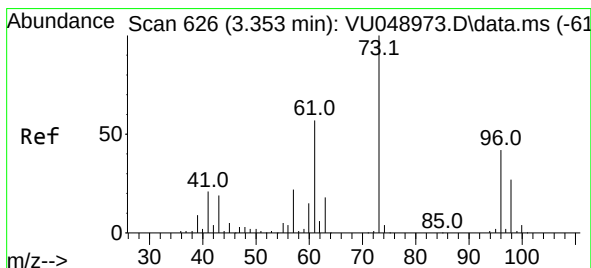
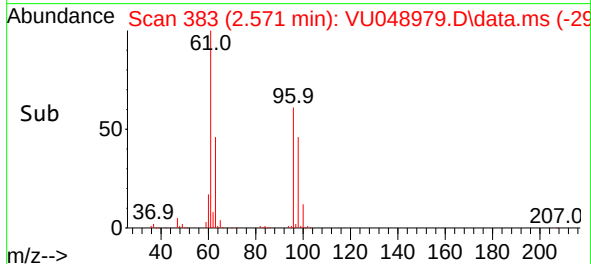
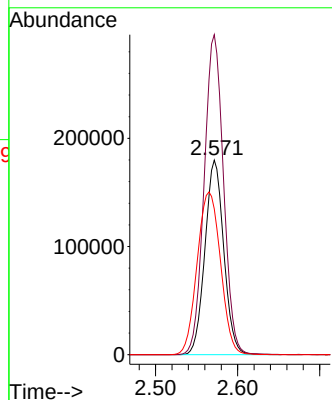
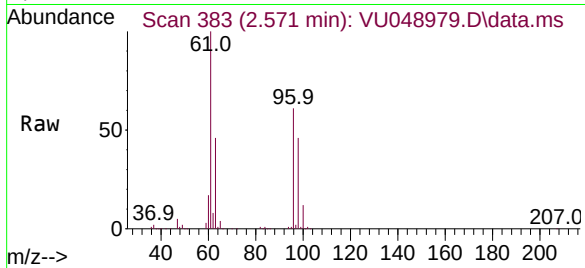




#12  
1,1-Dichloroethene  
Concen: 140.920 ug/L  
RT: 2.571 min Scan# 383  
Delta R.T. -0.007 min  
Lab File: VU048979.D  
Acq: 09 Jun 2022 15:07

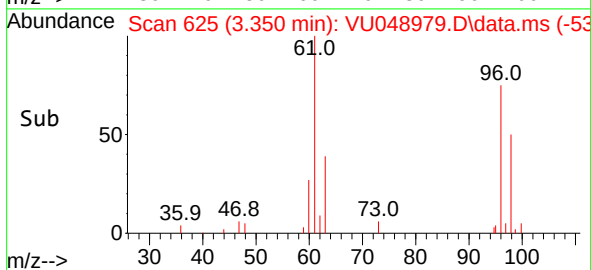
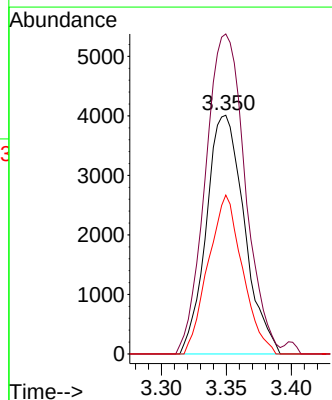
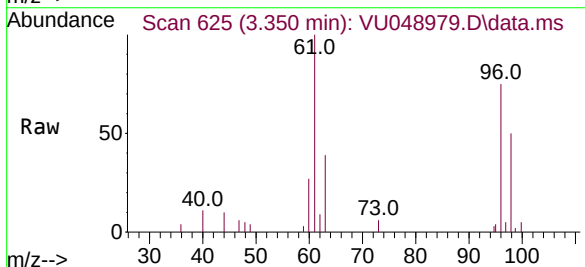
Instrument :  
MSVOA\_U  
ClientSampleId :  
EXYW9

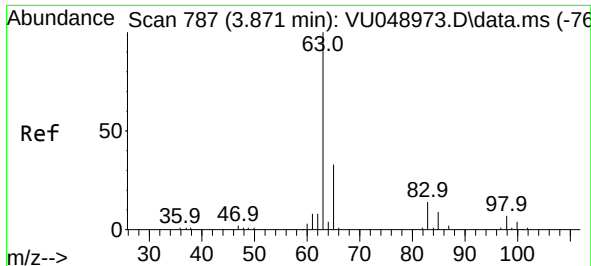
Tgt Ion: 96 Resp: 287426  
Ion Ratio Lower Upper  
96 100  
61 164.5 120.6 224.0  
63 74.9 82.3 152.9#



#17  
trans-1,2-Dichloroethene  
Concen: 3.708 ug/L  
RT: 3.350 min Scan# 625  
Delta R.T. -0.003 min  
Lab File: VU048979.D  
Acq: 09 Jun 2022 15:07

Tgt Ion: 96 Resp: 8156  
Ion Ratio Lower Upper  
96 100  
61 134.1 94.2 175.0  
98 69.6 45.1 83.7





#19

1,1-Dichloroethane

Concen: 139.954 ug/L

RT: 3.864 min Scan# 71

Delta R.T. -0.007 min

Lab File: VU048979.D

Acq: 09 Jun 2022 15:07

Instrument :

MSVOA\_U

ClientSampleId :

EXYW9

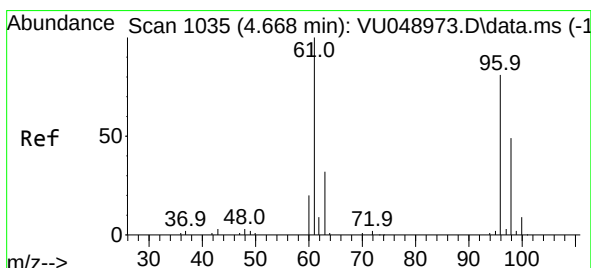
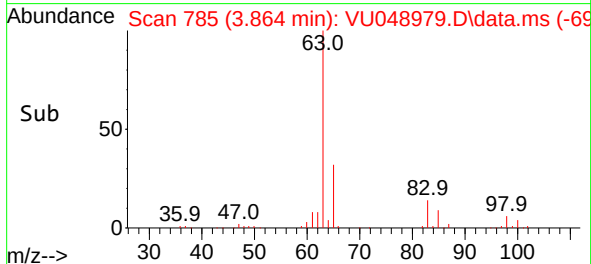
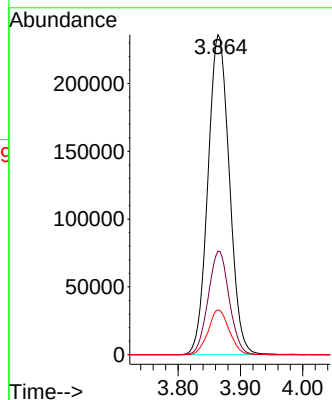
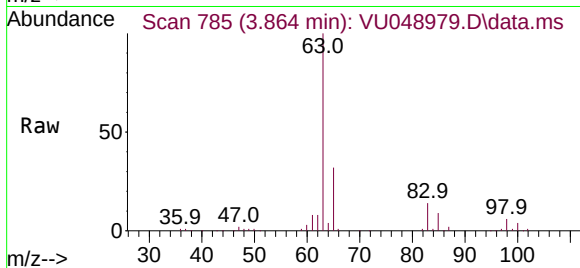
Tgt Ion: 63 Resp: 563660

Ion Ratio Lower Upper

63 100

65 32.3 21.8 40.6

83 14.0 9.8 18.2



#20

cis-1,2-Dichloroethene

Concen: 146.651 ug/L

RT: 4.661 min Scan# 1033

Delta R.T. -0.007 min

Lab File: VU048979.D

Acq: 09 Jun 2022 15:07

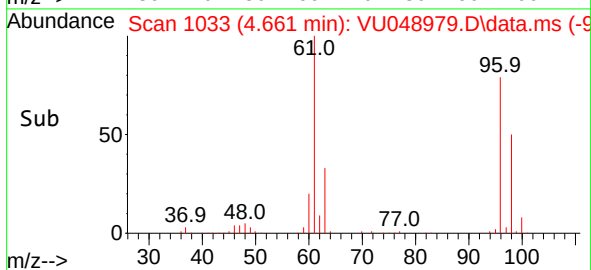
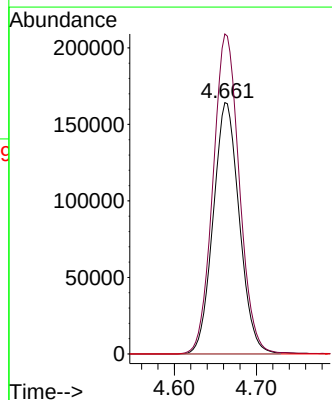
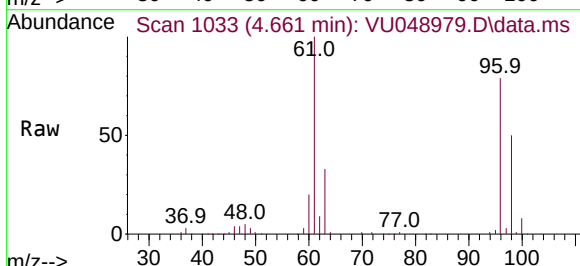
Tgt Ion: 96 Resp: 363821

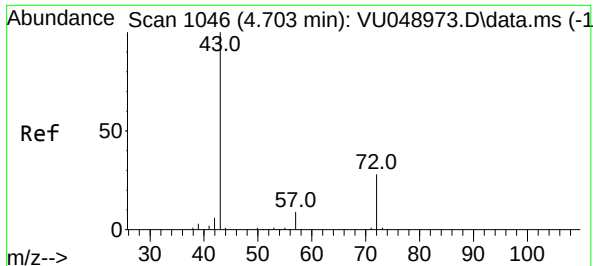
Ion Ratio Lower Upper

96 100

61 127.3 88.3 164.1

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 1.909 ug/L

RT: 4.713 min Scan# 1104

Delta R.T. 0.009 min

Lab File: VU048979.D

Acq: 09 Jun 2022 15:07

Instrument :

MSVOA\_U

ClientSampleId :

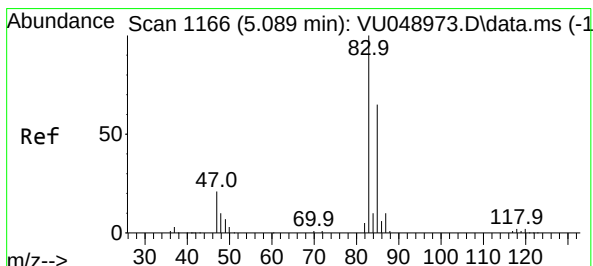
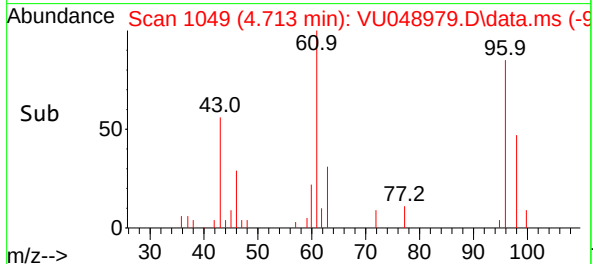
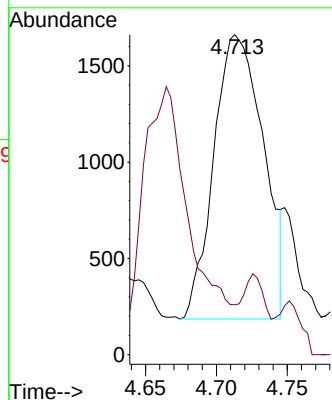
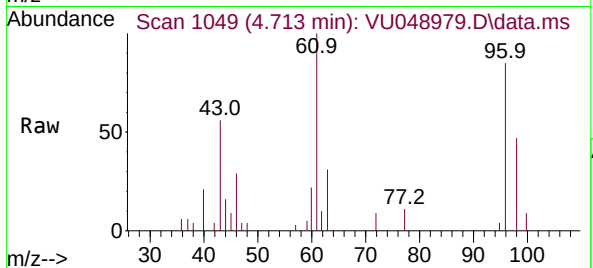
EXYW9

Tgt Ion: 43 Resp: 3599

Ion Ratio Lower Upper

43 100

72 12.2 15.4 46.2#



#25

Chloroform

Concen: 5.204 ug/L

RT: 5.086 min Scan# 1165

Delta R.T. -0.003 min

Lab File: VU048979.D

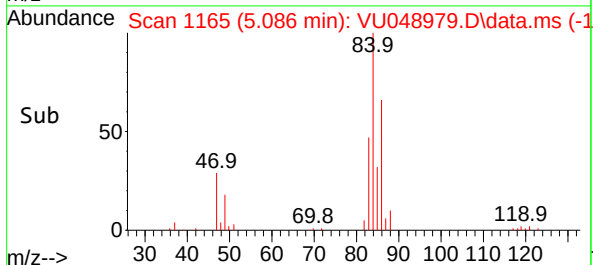
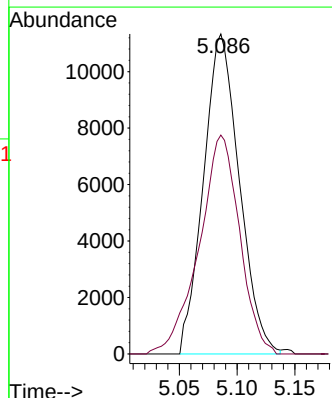
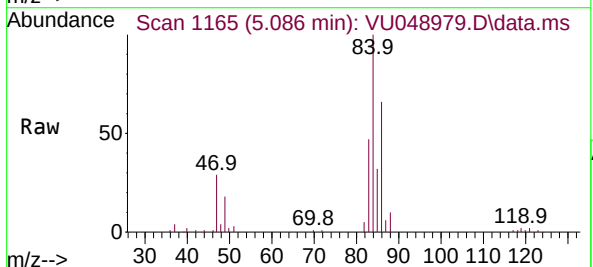
Acq: 09 Jun 2022 15:07

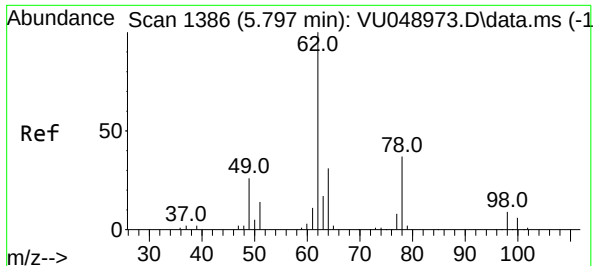
Tgt Ion: 83 Resp: 24466

Ion Ratio Lower Upper

83 100

85 68.4 45.1 83.7





#27

1,2-Dichloroethane

Concen: 0.960 ug/L

RT: 5.793 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU048979.D

Acq: 09 Jun 2022 15:07

Instrument :

MSVOA\_U

ClientSampleId :

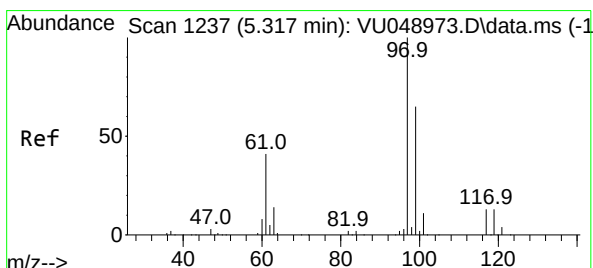
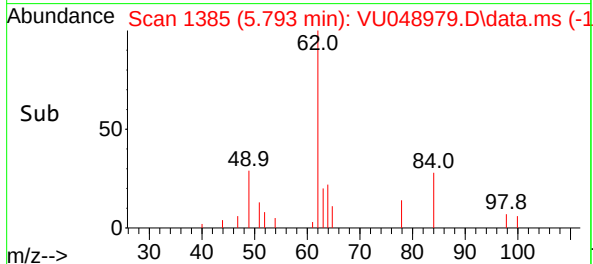
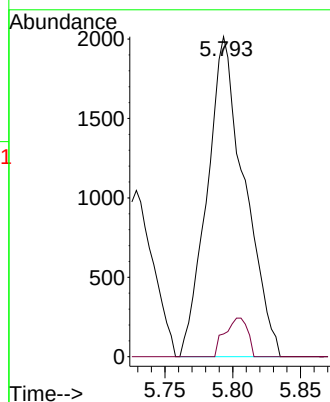
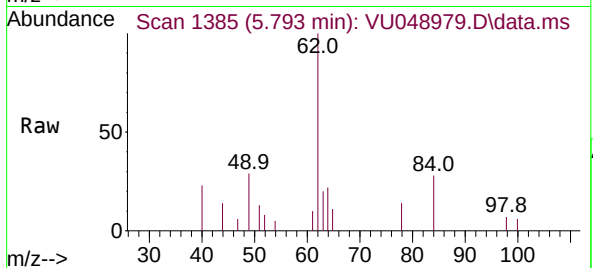
EXYW9

Tgt Ion: 62 Resp: 3873

Ion Ratio Lower Upper

62 100

98 7.1 6.0 9.0



#30

1,1,1-Trichloroethane

Concen: 343.264 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. -0.003 min

Lab File: VU048979.D

Acq: 09 Jun 2022 15:07

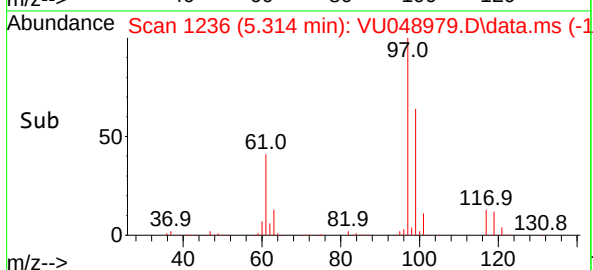
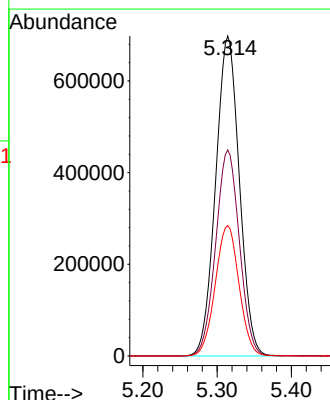
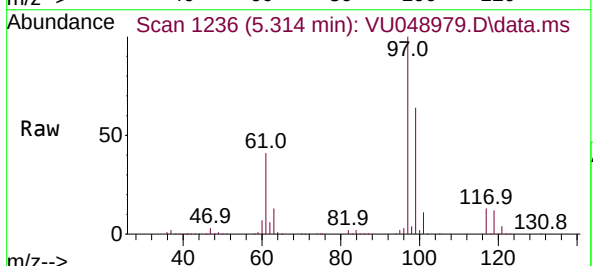
Tgt Ion: 97 Resp: 1549946

Ion Ratio Lower Upper

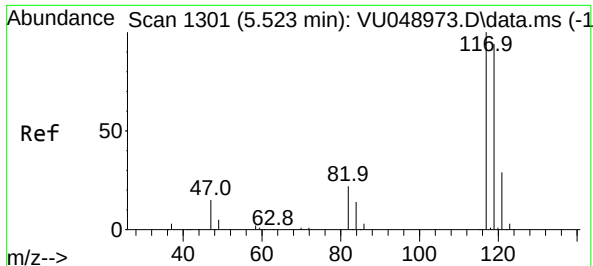
97 100

99 64.5 50.3 75.5

61 41.0 32.6 48.8



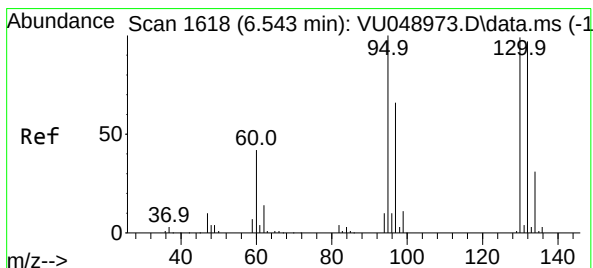
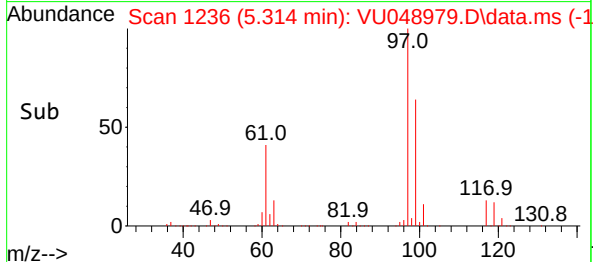
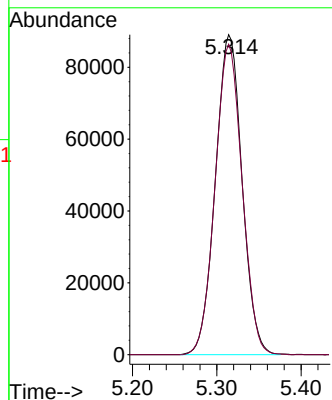
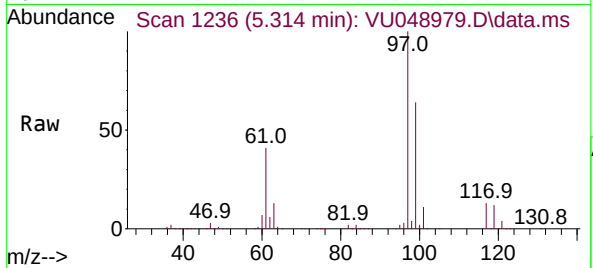




#31  
Carbon tetrachloride  
Concen: 47.625 ug/L  
RT: 5.314 min Scan# 117  
Delta R.T. -0.209 min  
Lab File: VU048979.D  
Acq: 09 Jun 2022 15:07

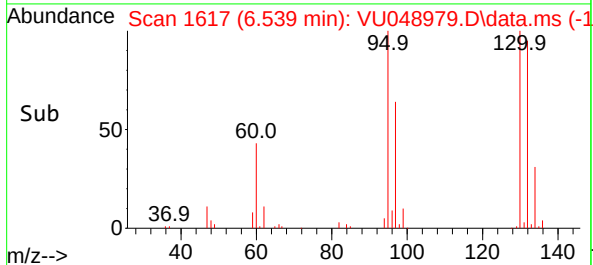
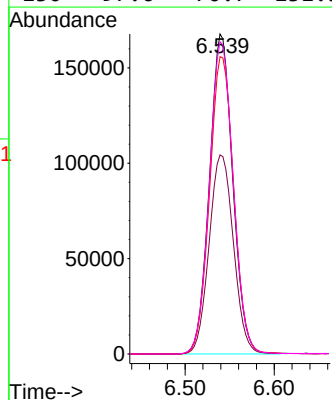
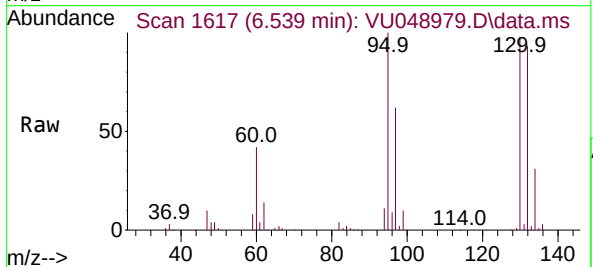
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ClientSampleId :  
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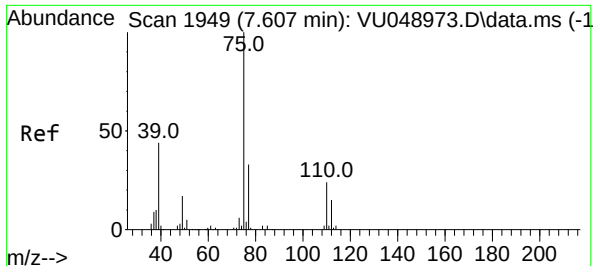
Tgt Ion:117 Resp: 195979  
Ion Ratio Lower Upper  
117 100  
119 98.2 76.0 114.0



#34  
Trichloroethene  
Concen: 123.850 ug/L  
RT: 6.539 min Scan# 1617  
Delta R.T. -0.003 min  
Lab File: VU048979.D  
Acq: 09 Jun 2022 15:07

Tgt Ion: 95 Resp: 305281  
Ion Ratio Lower Upper  
95 100  
97 62.2 45.2 84.0  
132 92.9 67.3 124.9  
130 97.6 70.7 131.3





#39

cis-1,3-Dichloropropene

Concen: 1.050 ug/L

RT: 7.565 min Scan# 1949

Delta R.T. -0.042 min

Lab File: VU048979.D

Acq: 09 Jun 2022 15:07

Instrument :

MSVOA\_U

ClientSampleId :

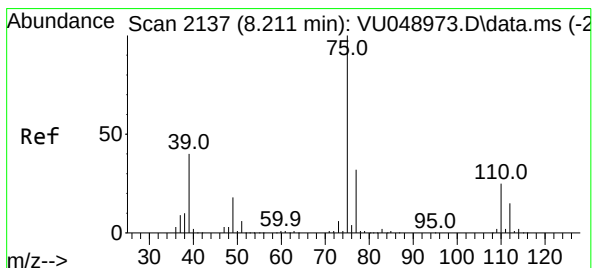
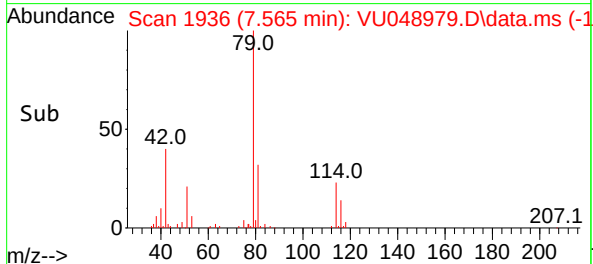
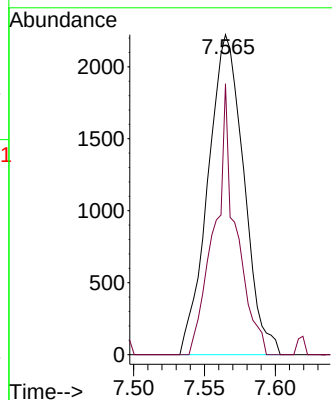
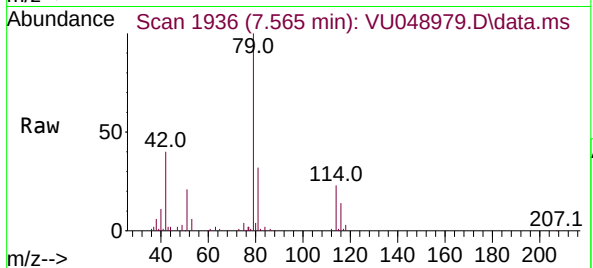
EXYW9

Tgt Ion: 75 Resp: 3906

Ion Ratio Lower Upper

75 100

77 79.7 22.9 42.5#



#44

trans-1,3-Dichloropropene

Concen: 0.707 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.032 min

Lab File: VU048979.D

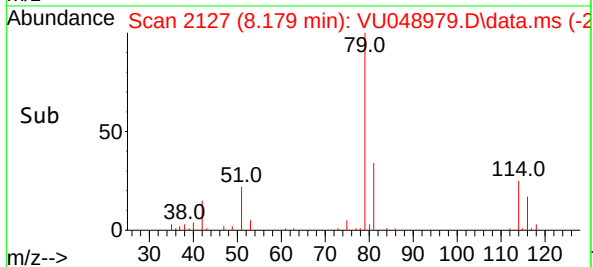
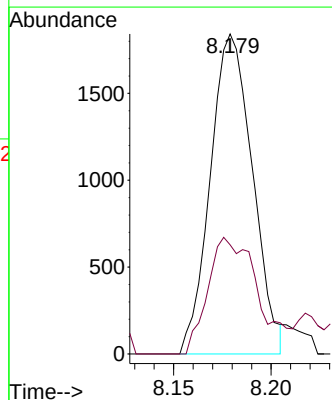
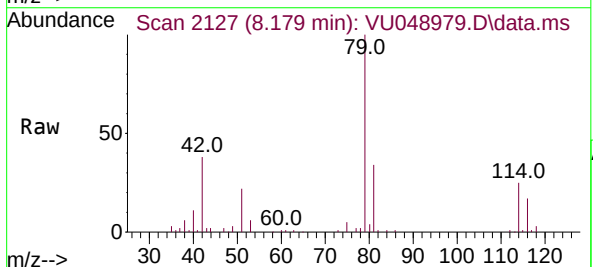
Acq: 09 Jun 2022 15:07

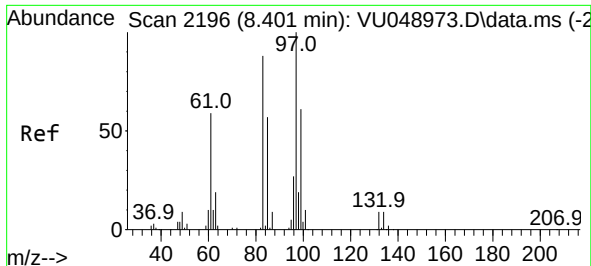
Tgt Ion: 75 Resp: 2775

Ion Ratio Lower Upper

75 100

77 34.1 22.7 42.1



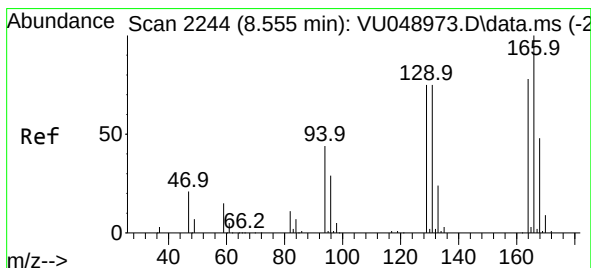
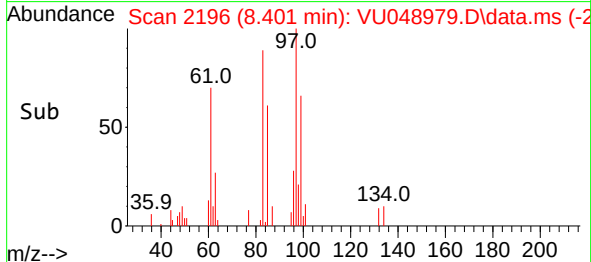
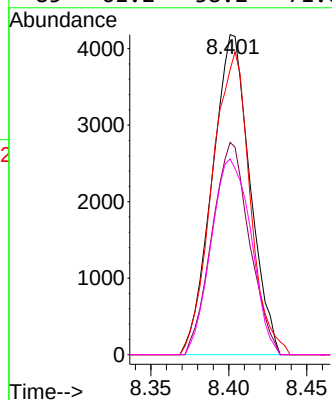
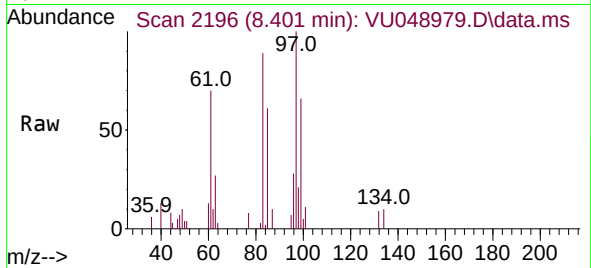


#45  
1,1,2-Trichloroethane  
Concen: 3.023 ug/L  
RT: 8.401 min Scan# 2196  
Delta R.T. -0.000 min  
Lab File: VU048979.D  
Acq: 09 Jun 2022 15:07

Instrument :  
MSVOA\_U  
ClientSampleId :  
EXYW9

Tgt Ion: 97 Resp: 7052

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 66.4  | 42.2  | 78.4  |
| 83  | 89.1  | 58.4  | 108.6 |
| 85  | 61.2  | 38.2  | 71.0  |



#46  
Tetrachloroethene  
Concen: 81.307 ug/L  
RT: 8.552 min Scan# 2243  
Delta R.T. -0.003 min  
Lab File: VU048979.D  
Acq: 09 Jun 2022 15:07

Tgt Ion: 164 Resp: 163542

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 97.3  | 64.3  | 119.3 |
| 131 | 91.2  | 64.5  | 119.7 |
| 166 | 125.4 | 87.5  | 162.5 |

