

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW111122\  
 Data File : VW028892.D  
 Acq On : 11 Nov 2022 22:03  
 Operator : SY/MD  
 Sample : N5592-14  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 H0AB9

Quant Time: Nov 12 02:58:20 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111122WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Nov 11 22:27:09 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.613  | 114   | 306201   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.847  | 117   | 282512   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.243 | 152   | 133995   | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304  | 65    | 87459    | 4.685    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 93.800%  |
| 7) Chloroethane-d5            | 1.568  | 69    | 77885    | 4.746    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 95.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.108  | 63    | 138778   | 4.079    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 81.600%  |
| 20) 2-Butanone-d5             | 3.883  | 46    | 188217   | 60.232   | ug/L   | -0.02    |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 120.460% |
| 24) Chloroform-d              | 4.343  | 84    | 189771   | 4.951    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 99.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.031  | 65    | 88126    | 5.111    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 102.200% |
| 32) Benzene-d6                | 5.047  | 84    | 401486   | 4.761    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 95.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.066  | 67    | 117540   | 4.992    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 99.800%  |
| 41) Toluene-d8                | 7.310  | 98    | 357935   | 4.715    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 94.400%  |
| 43) trans-1,3-Dichloroprop... | 7.622  | 79    | 35872    | 4.671    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 93.400%  |
| 46) 2-Hexanone-d5             | 8.088  | 63    | 165239   | 50.407   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 100.820% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.210 | 84    | 81347    | 4.983    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 99.600%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.616 | 152   | 127507   | 5.319    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 106.400% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl chloride             | 1.311  | 62    | 2491     | 0.103    | ug/L # | 1        |
| 8) Chloroethane               | 1.413  | 64    | 109910   | 7.740    | ug/L # | 53       |
| 12) 1,1-Dichloroethene        | 2.118  | 96    | 41230    | 2.224    | ug/L # | 69       |
| 17) Methyl tert-butyl Ether   | 2.764  | 73    | 2736     | 0.069    | ug/L # | 88       |
| 18) trans-1,2-Dichloroethene  | 2.761  | 96    | 749      | 0.035    | ug/L # | 58       |
| 19) 1,1-Dichloroethane        | 3.188  | 63    | 15662    | 0.446    | ug/L   | 95       |
| 22) cis-1,2-Dichloroethene    | 3.908  | 96    | 65503    | 2.997    | ug/L   | 98       |
| 25) Chloroform                | 4.371  | 83    | 7447     | 0.202    | ug/L   | 92       |
| 29) 1,1,1-Trichloroethane     | 4.600  | 97    | 624      | 0.019    | ug/L # | 70       |
| 34) Trichloroethene           | 5.908  | 95    | 243193   | 11.003   | ug/L   | 99       |
| 35) Methylcyclohexane         | 6.066  | 83    | 29150    | 0.750    | ug/L # | 21       |
| 37) 1,2-Dichloropropane       | 6.066  | 63    | 12529    | 0.629    | ug/L # | 85       |
| 45) 1,1,2-Trichloroethane     | 7.966  | 97    | 3555     | 0.273    | ug/L # | 1        |
| 47) Tetrachloroethene         | 7.969  | 164   | 475288   | 26.857   | ug/L   | 99       |
| 49) Dibromochloromethane      | 7.969  | 129   | 423520   | 26.880   | ug/L # | 10       |
| 51) Chlorobenzene             | 8.879  | 112   | 13120    | 0.228    | ug/L   | 97       |
| 61) 1,2,3-Trichloropropane    | 11.243 | 75    | 17240    | 1.883    | ug/L # | 60       |
| 64) 1,3-Dichlorobenzene       | 11.268 | 146   | 10120    | 0.248    | ug/L   | 94       |
| -----                         |        |       |          |          |        |          |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV111122\  
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Sample : N5592-14  
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ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
H0AB9

Quant Time: Nov 12 02:58:20 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111122WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Nov 11 22:27:09 2022  
Response via : Initial Calibration

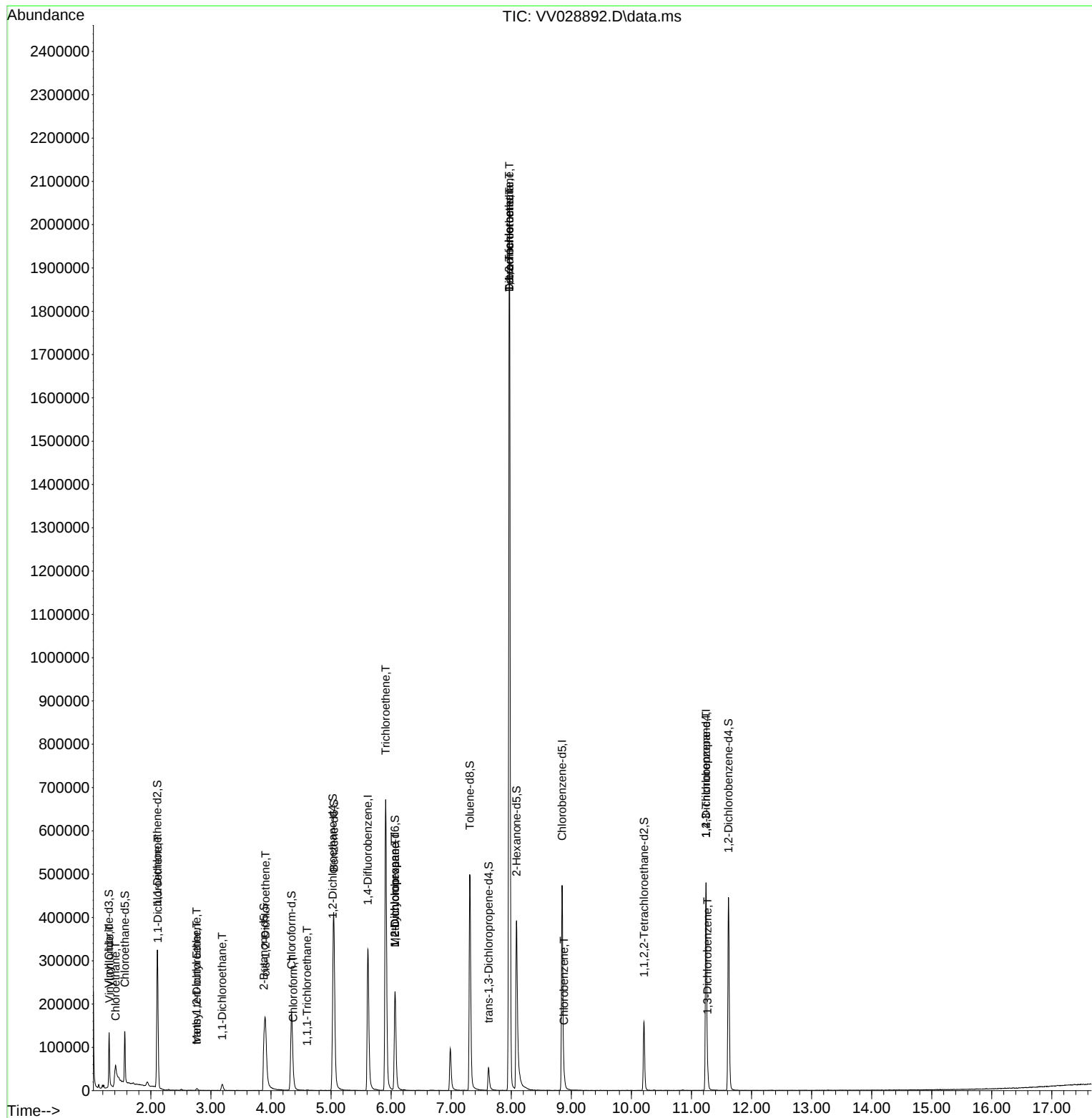
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

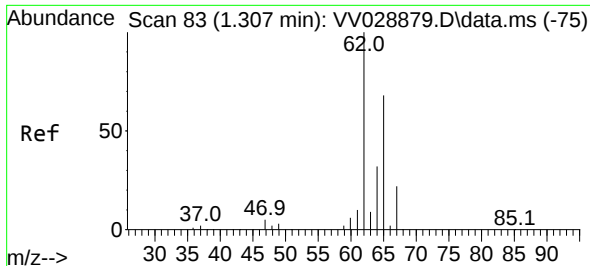
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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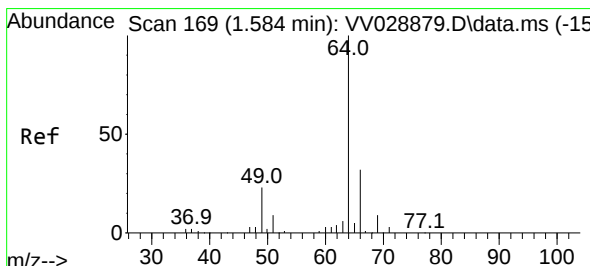
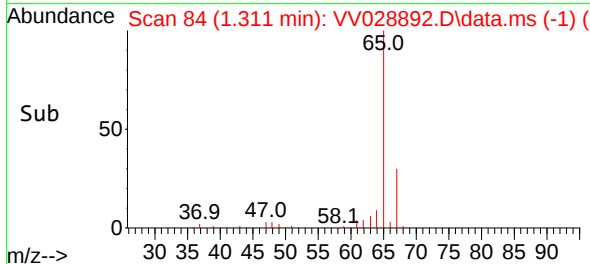
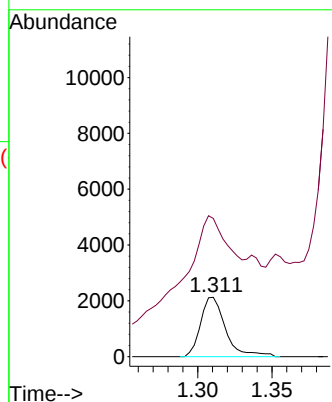
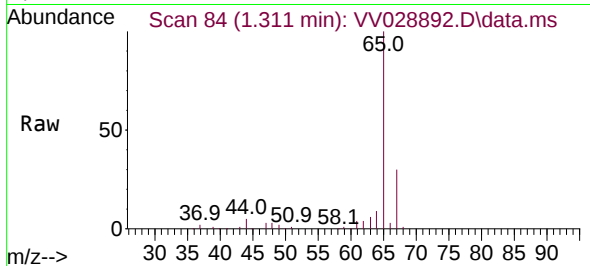




#5  
 Vinyl chloride  
 Concen: 0.103 ug/L  
 RT: 1.311 min Scan# 84  
 Delta R.T. 0.003 min  
 Lab File: VV028892.D  
 Acq: 11 Nov 2022 22:03

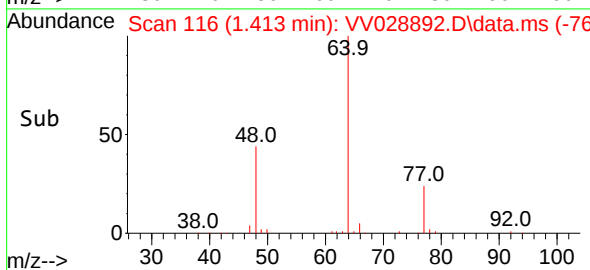
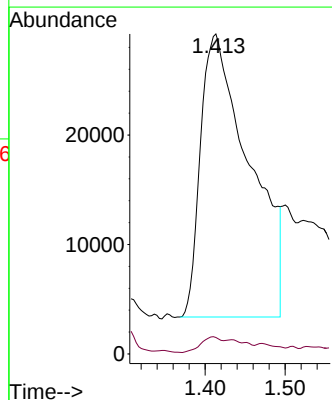
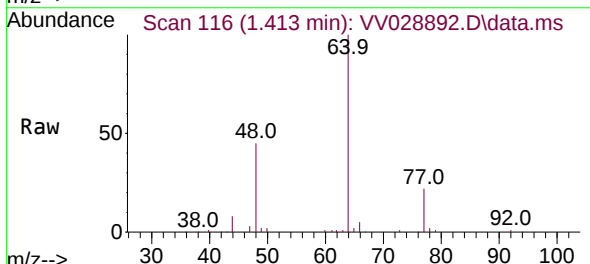
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 H0AB9

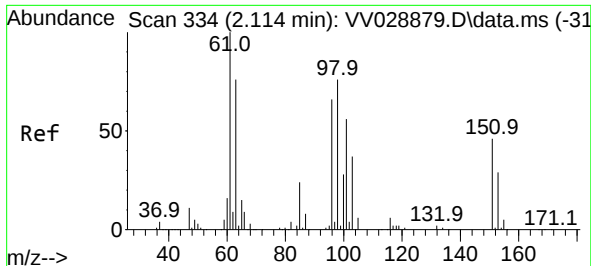
Tgt Ion: 62 Resp: 2491  
 Ion Ratio Lower Upper  
 62 100  
 64 232.8 22.8 42.4#



#8  
 Chloroethane  
 Concen: 7.740 ug/L  
 RT: 1.413 min Scan# 116  
 Delta R.T. -0.170 min  
 Lab File: VV028892.D  
 Acq: 11 Nov 2022 22:03

Tgt Ion: 64 Resp: 109910  
 Ion Ratio Lower Upper  
 64 100  
 66 5.2 22.0 40.8#





#12

1,1-Dichloroethene

Concen: 2.224 ug/L

RT: 2.118 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV028892.D

Acq: 11 Nov 2022 22:03

Instrument :

MSVOA\_V

ClientSampleId :

H0AB9

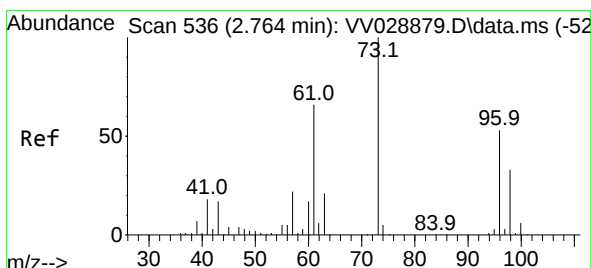
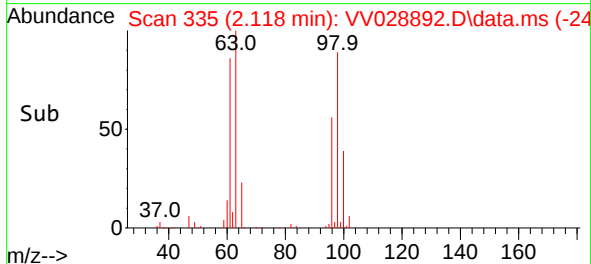
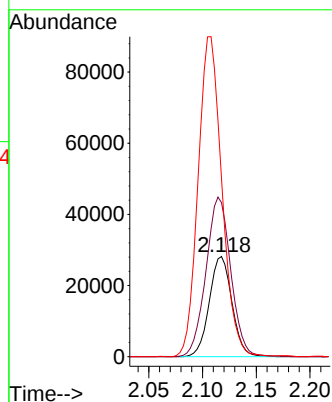
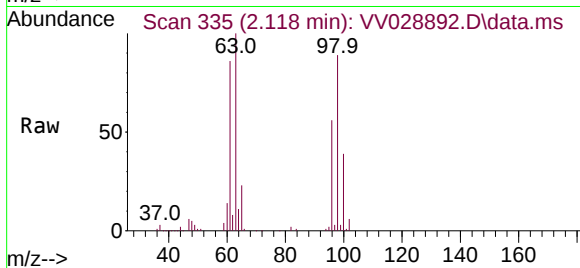
Tgt Ion: 96 Resp: 41230

Ion Ratio Lower Upper

96 100

61 153.9 104.2 193.4

63 178.5 75.9 140.9#



#17

Methyl tert-butyl Ether

Concen: 0.069 ug/L

RT: 2.764 min Scan# 536

Delta R.T. -0.000 min

Lab File: VV028892.D

Acq: 11 Nov 2022 22:03

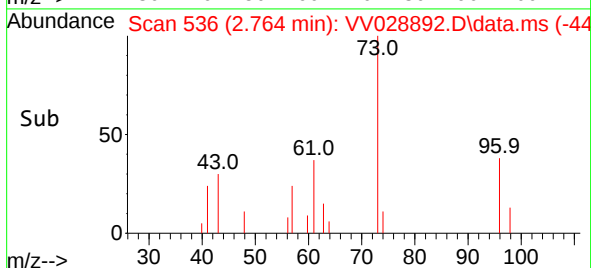
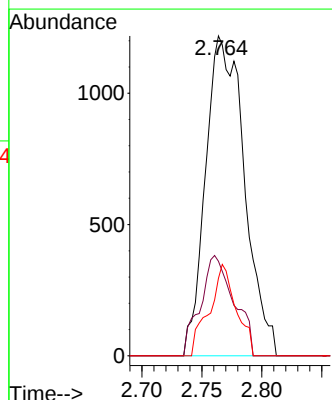
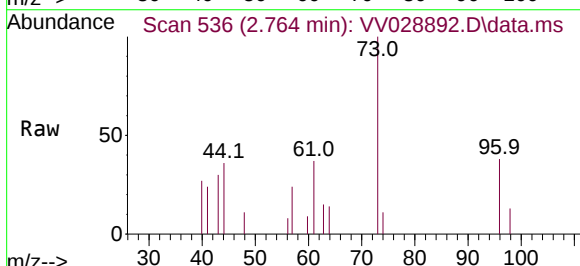
Tgt Ion: 73 Resp: 2736

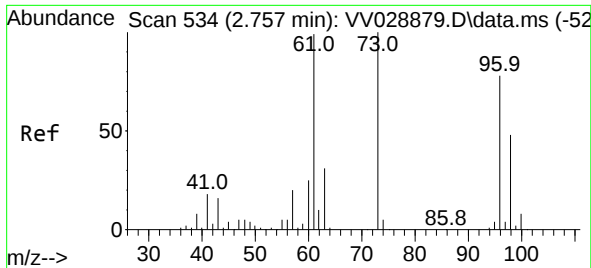
Ion Ratio Lower Upper

73 100

43 27.3 13.0 19.4#

57 19.9 16.6 24.8

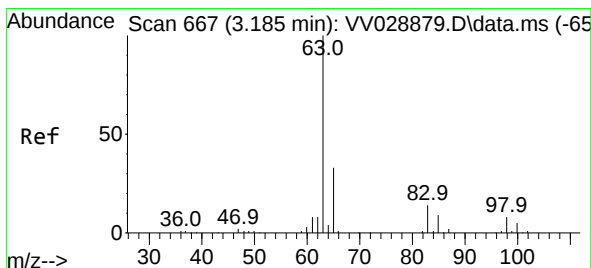
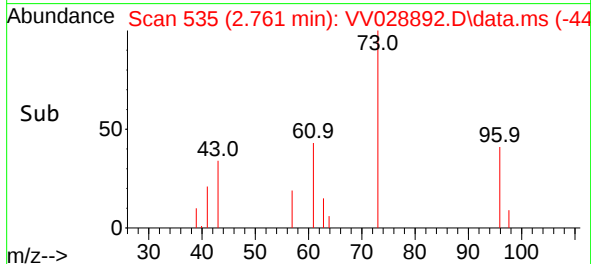
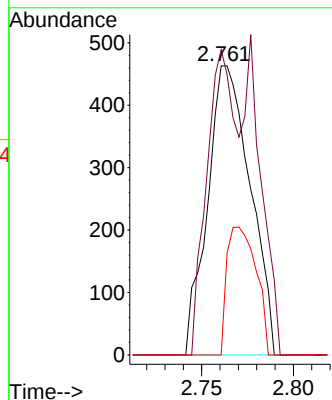
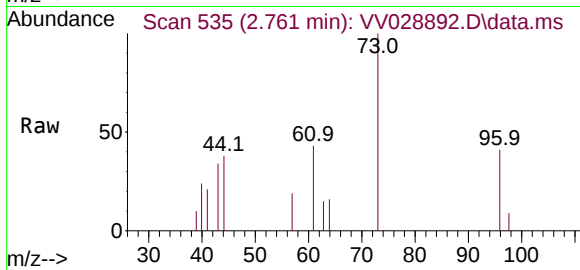




#18  
trans-1,2-Dichloroethene  
Concen: 0.035 ug/L  
RT: 2.761 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VV028892.D  
Acq: 11 Nov 2022 22:03

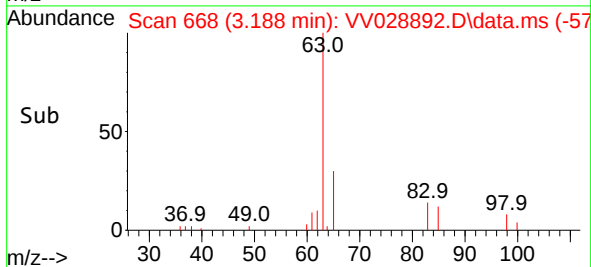
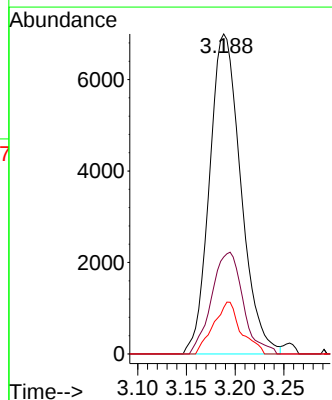
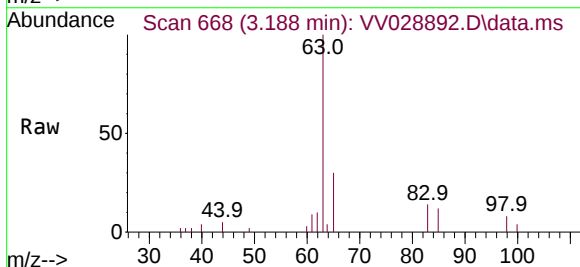
Instrument :  
MSVOA\_V  
ClientSampleId :  
H0AB9

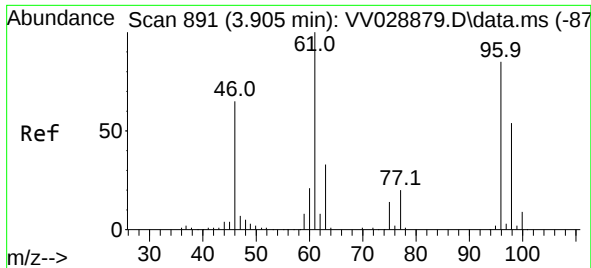
Tgt Ion: 96 Resp: 749  
Ion Ratio Lower Upper  
96 100  
61 105.6 91.8 170.6  
98 0.0 46.4 86.2#



#19  
1,1-Dichloroethane  
Concen: 0.446 ug/L  
RT: 3.188 min Scan# 668  
Delta R.T. 0.003 min  
Lab File: VV028892.D  
Acq: 11 Nov 2022 22:03

Tgt Ion: 63 Resp: 15662  
Ion Ratio Lower Upper  
63 100  
65 29.2 23.0 42.6  
83 13.9 9.4 17.6





#22

cis-1,2-Dichloroethene

Concen: 2.997 ug/L

RT: 3.908 min Scan# 891

Delta R.T. 0.003 min

Lab File: VV028892.D

Acq: 11 Nov 2022 22:03

Instrument :

MSVOA\_V

ClientSampleId :

H0AB9

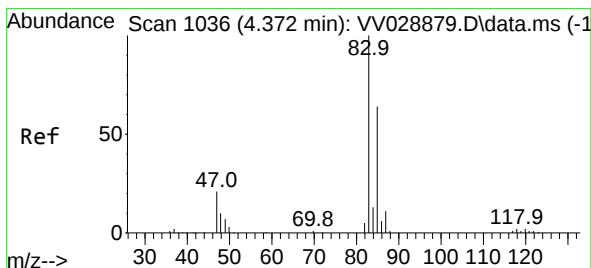
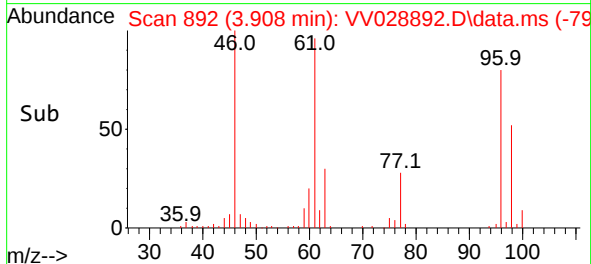
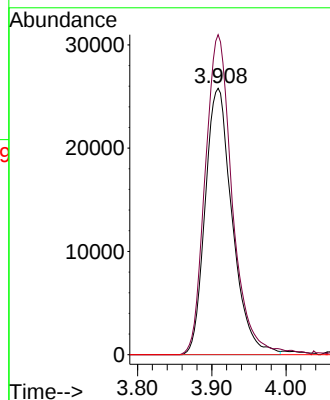
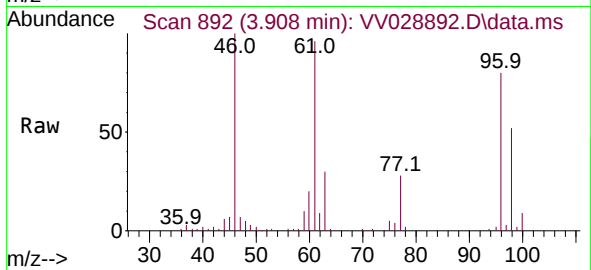
Tgt Ion: 96 Resp: 65503

Ion Ratio Lower Upper

96 100

61 120.1 82.3 152.9

68 0.0 0.0 0.0



#25

Chloroform

Concen: 0.202 ug/L

RT: 4.371 min Scan# 1036

Delta R.T. -0.000 min

Lab File: VV028892.D

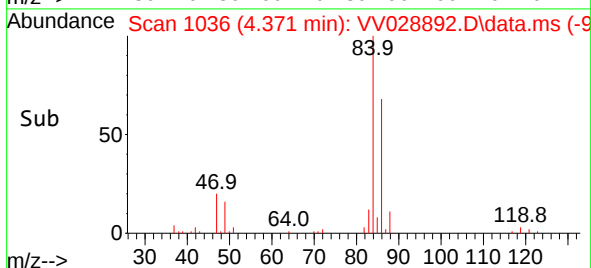
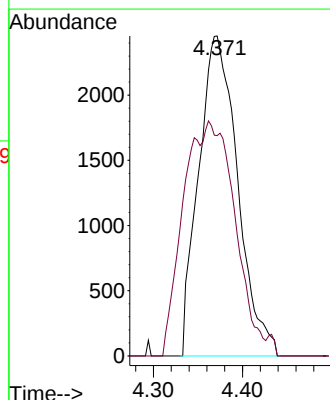
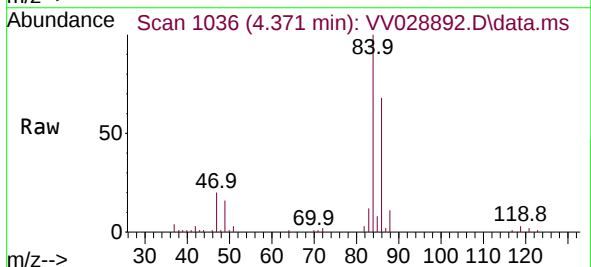
Acq: 11 Nov 2022 22:03

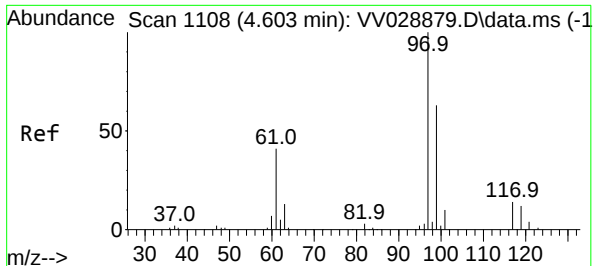
Tgt Ion: 83 Resp: 7447

Ion Ratio Lower Upper

83 100

85 68.8 43.7 81.1





#29

1,1,1-Trichloroethane

Concen: 0.019 ug/L

RT: 4.600 min Scan# 1107

Delta R.T. -0.003 min

Lab File: VV028892.D

Acq: 11 Nov 2022 22:03

Instrument :

MSVOA\_V

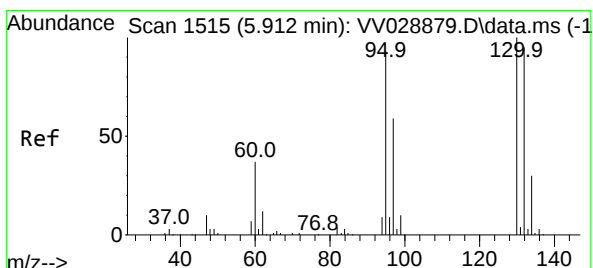
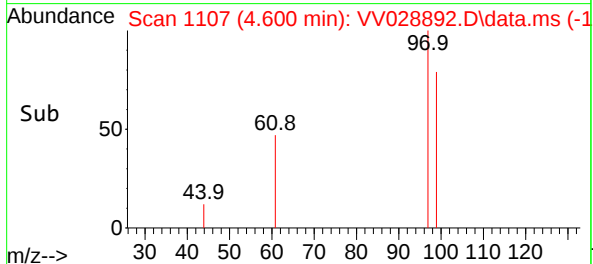
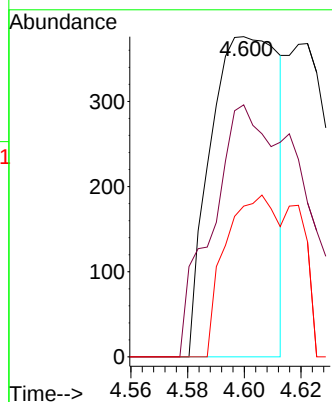
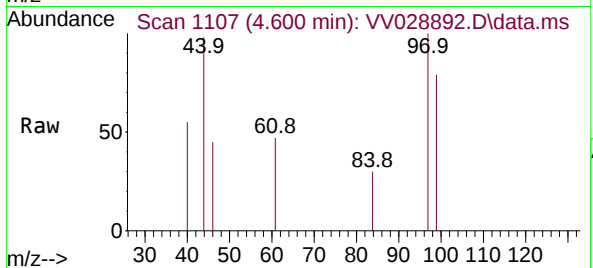
ClientSampleId :

H0AB9

Tgt Ion: 97 Resp: 624

Ion Ratio Lower Upper

|    |       |      |       |
|----|-------|------|-------|
| 97 | 100   |      |       |
| 99 | 102.2 | 52.7 | 79.1# |
| 61 | 39.4  | 33.8 | 50.6  |



#34

Trichloroethene

Concen: 11.003 ug/L

RT: 5.908 min Scan# 1514

Delta R.T. -0.003 min

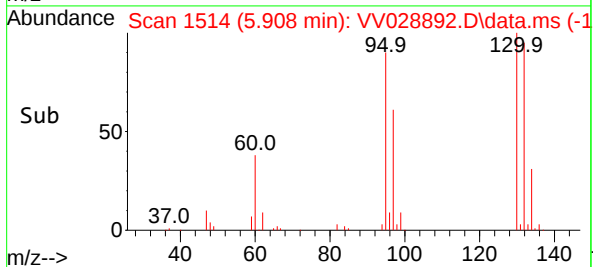
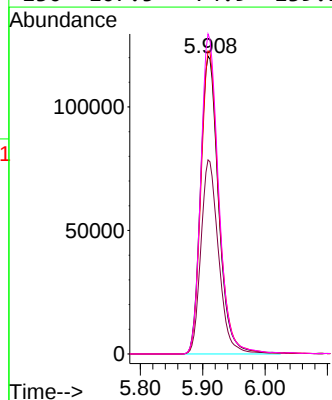
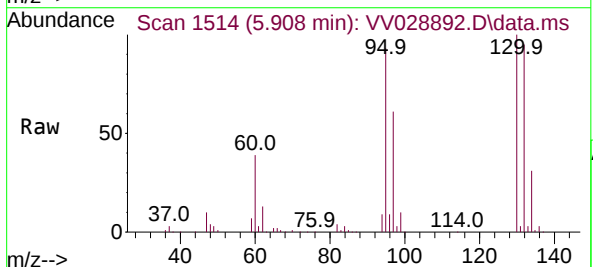
Lab File: VV028892.D

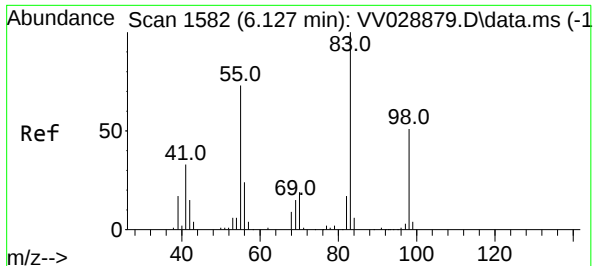
Acq: 11 Nov 2022 22:03

Tgt Ion: 95 Resp: 243193

Ion Ratio Lower Upper

|     |       |      |       |
|-----|-------|------|-------|
| 95  | 100   |      |       |
| 97  | 65.2  | 45.6 | 84.8  |
| 132 | 101.8 | 69.1 | 128.3 |
| 130 | 107.5 | 74.9 | 139.1 |





#35

Methylcyclohexane

Concen: 0.750 ug/L

RT: 6.066 min Scan# 1563

Delta R.T. -0.061 min

Lab File: VV028892.D

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MSVOA\_V

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H0AB9

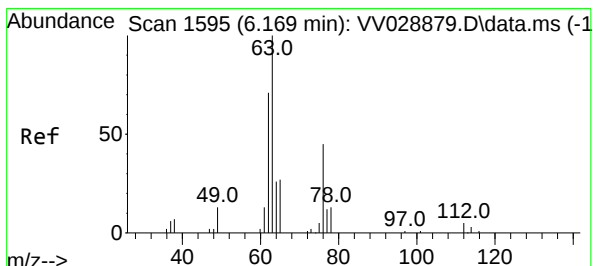
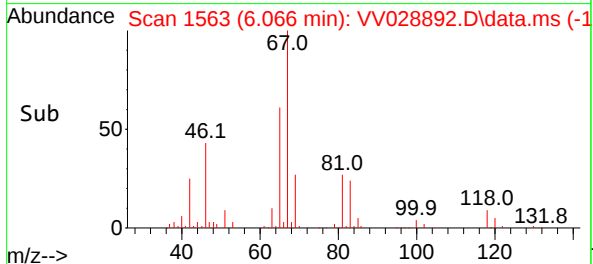
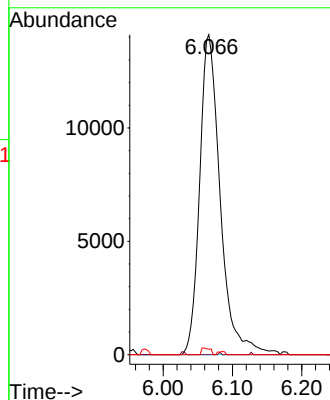
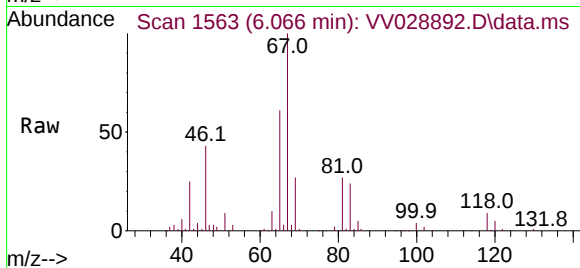
Tgt Ion: 83 Resp: 29150

Ion Ratio Lower Upper

83 100

55 0.1 55.8 83.6#

98 0.9 38.2 57.2#



#37

1,2-Dichloropropane

Concen: 0.629 ug/L

RT: 6.066 min Scan# 1563

Delta R.T. -0.103 min

Lab File: VV028892.D

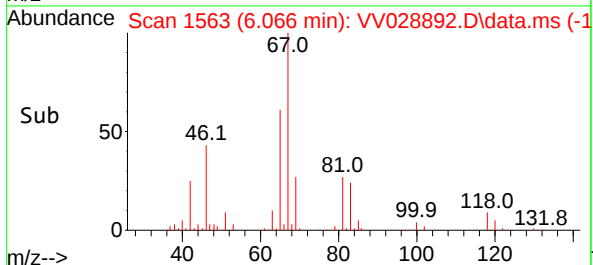
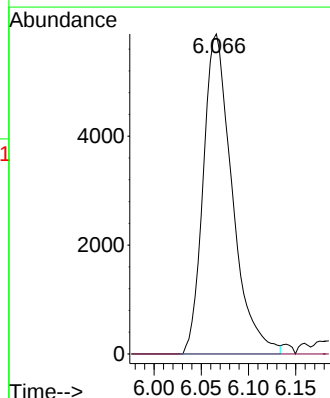
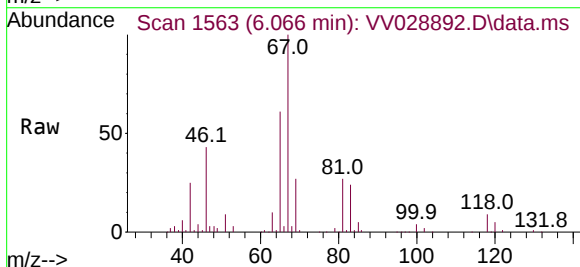
Acq: 11 Nov 2022 22:03

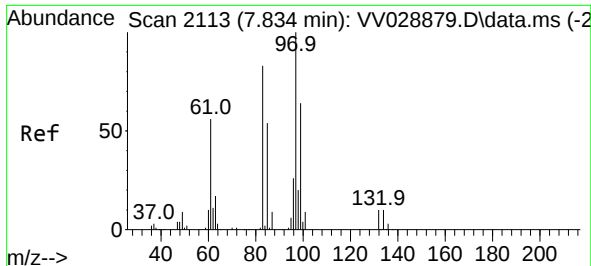
Tgt Ion: 63 Resp: 12529

Ion Ratio Lower Upper

63 100

112 0.0 4.0 6.0#

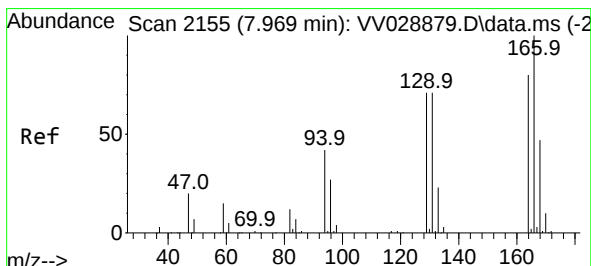
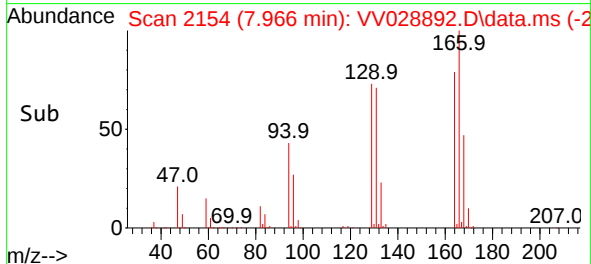
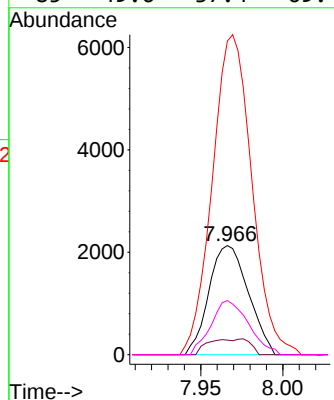
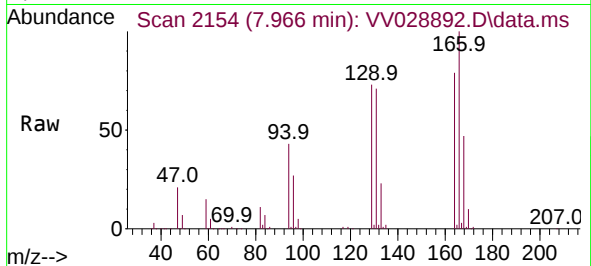




#45  
1,1,2-Trichloroethane  
Concen: 0.273 ug/L  
RT: 7.966 min Scan# 2113  
Delta R.T. 0.132 min  
Lab File: VV028892.D  
Acq: 11 Nov 2022 22:03

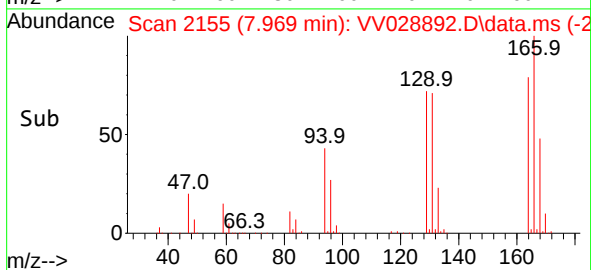
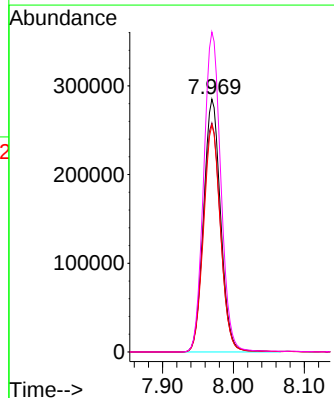
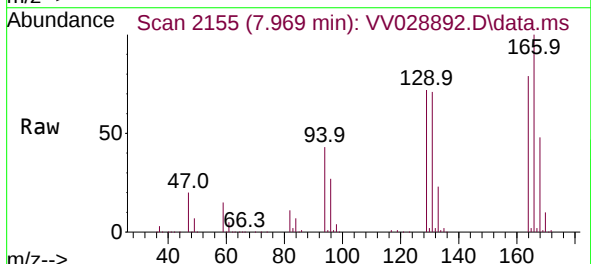
Instrument :  
MSVOA\_V  
ClientSampleId :  
H0AB9

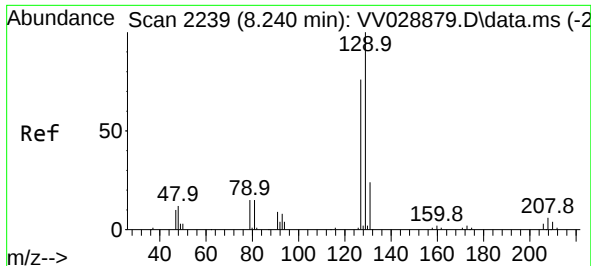
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 3555   |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 13.4  | 41.5  | 77.1#  |
| 83       | 287.2 | 60.0  | 111.4# |
| 85       | 49.6  | 37.4  | 69.4   |



#47  
Tetrachloroethene  
Concen: 26.857 ug/L  
RT: 7.969 min Scan# 2155  
Delta R.T. -0.000 min  
Lab File: VV028892.D  
Acq: 11 Nov 2022 22:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 475288 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 90.6  | 63.9  | 118.7  |
| 131      | 89.8  | 61.8  | 114.8  |
| 166      | 126.6 | 90.2  | 167.4  |





#49

Dibromochloromethane

Concen: 26.880 ug/L

RT: 7.969 min Scan# 2155

Delta R.T. -0.270 min

Lab File: VV028892.D

Acq: 11 Nov 2022 22:03

Instrument :

MSVOA\_V

ClientSampleId :

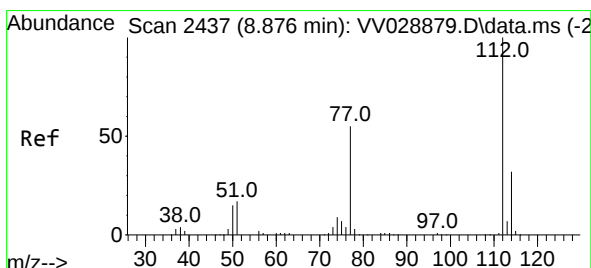
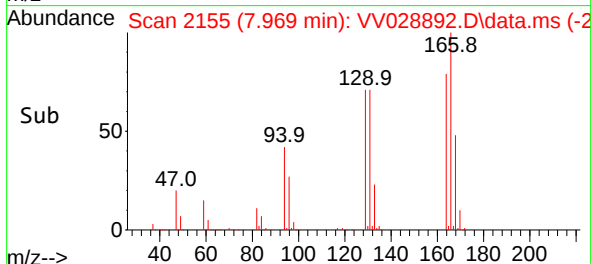
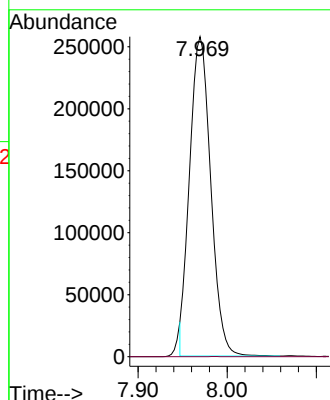
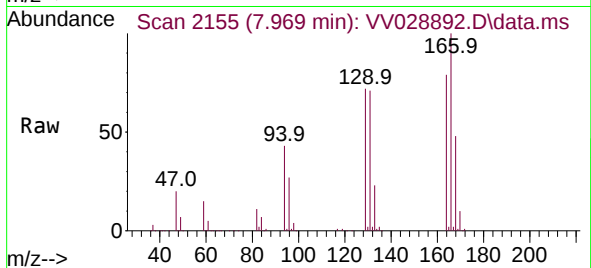
H0AB9

Tgt Ion:129 Resp: 423520

Ion Ratio Lower Upper

129 100

127 0.0 54.5 101.1#



#51

Chlorobenzene

Concen: 0.228 ug/L

RT: 8.879 min Scan# 2438

Delta R.T. 0.003 min

Lab File: VV028892.D

Acq: 11 Nov 2022 22:03

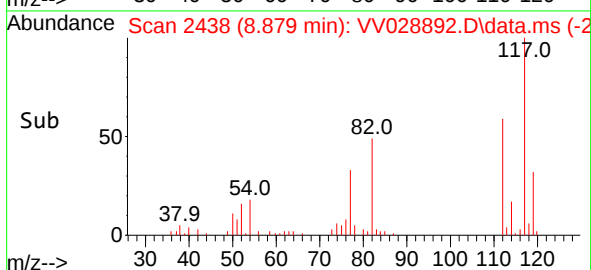
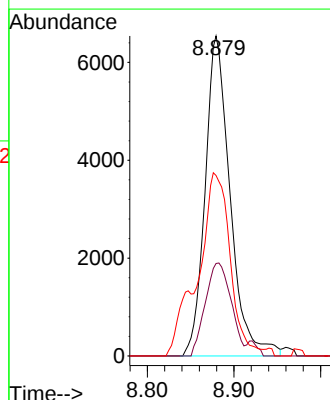
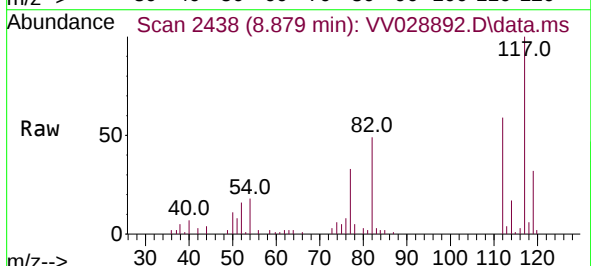
Tgt Ion:112 Resp: 13120

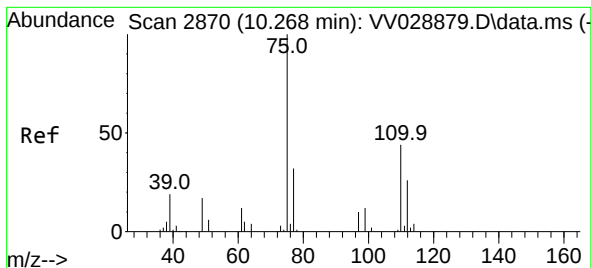
Ion Ratio Lower Upper

112 100

114 28.9 22.4 41.6

77 56.4 44.4 66.6





#61

1,2,3-Trichloropropane

Concen: 1.883 ug/L

RT: 11.243 min Scan# 31173

Delta R.T. 0.974 min

Lab File: VV028892.D

Acq: 11 Nov 2022 22:03

Instrument :

MSVOA\_V

ClientSampleId :

H0AB9

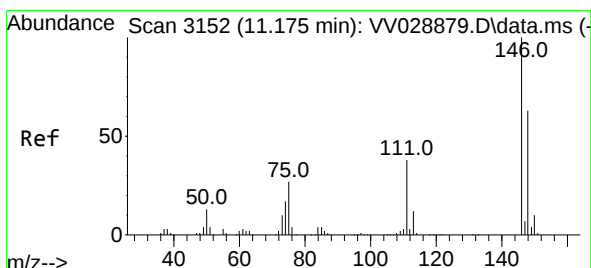
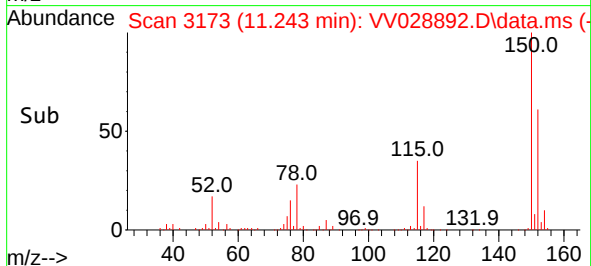
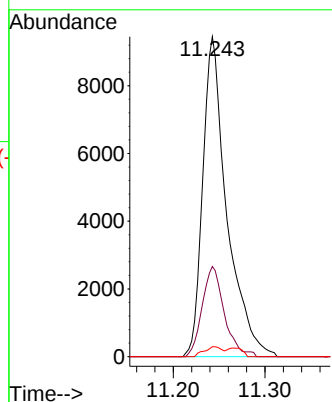
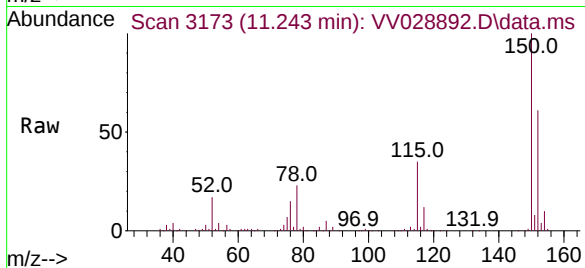
Tgt Ion: 75 Resp: 17240

Ion Ratio Lower Upper

75 100

77 25.8 26.2 39.2#

110 2.3 32.6 48.8#



#64

1,3-Dichlorobenzene

Concen: 0.248 ug/L

RT: 11.268 min Scan# 3181

Delta R.T. 0.093 min

Lab File: VV028892.D

Acq: 11 Nov 2022 22:03

Tgt Ion:146 Resp: 10120

Ion Ratio Lower Upper

146 100

111 41.3 26.9 50.1

148 68.7 44.1 81.9

