

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV082423\  
 Data File : VV031919.D  
 Acq On : 24 Aug 2023 19:11  
 Operator : SY/MD  
 Sample : 04153-01  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 69 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Aug 25 01:01:00 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR082323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Aug 25 00:56:34 2023  
 Response via : Initial Calibration

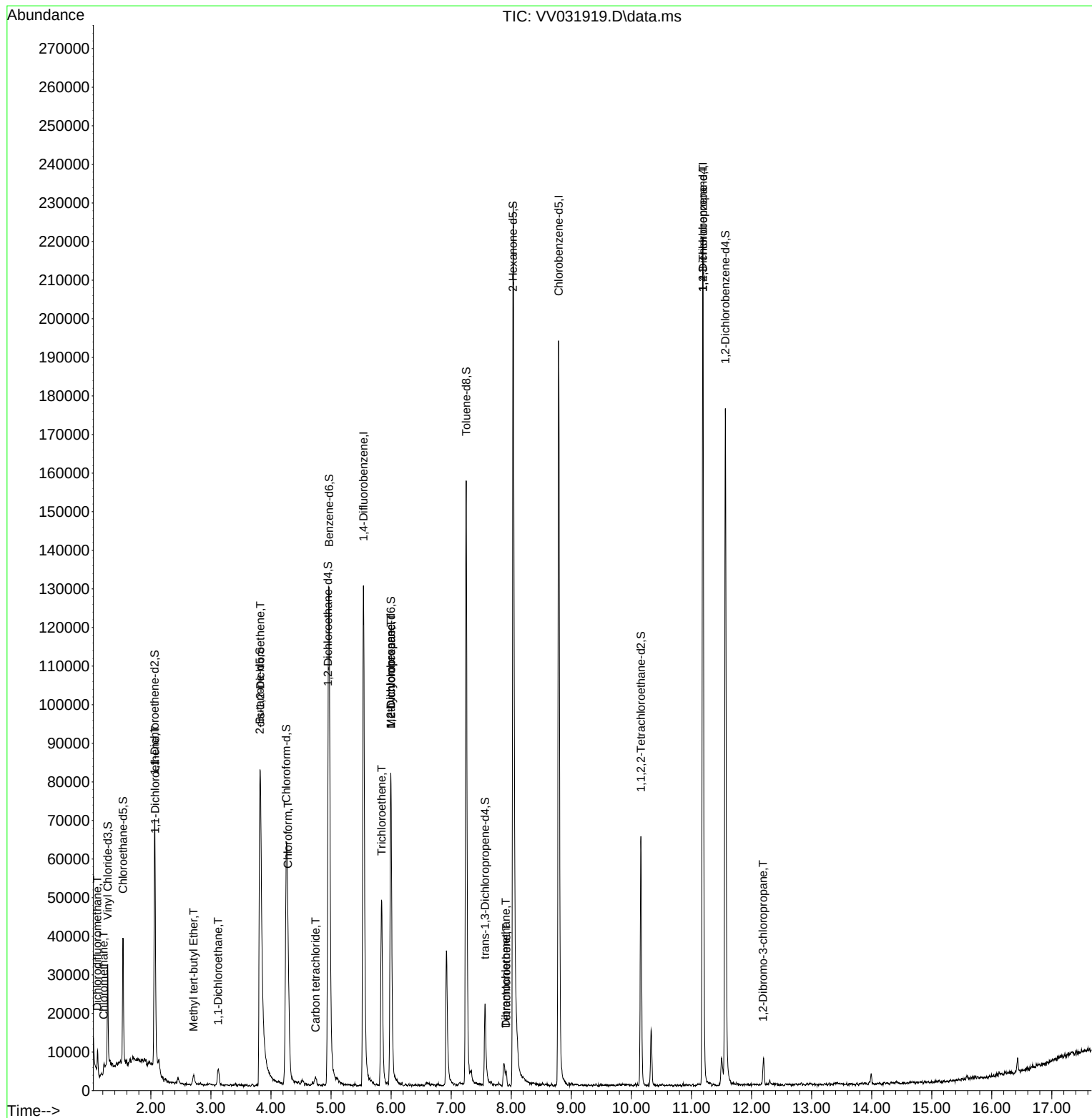
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.538  | 114   | 113402   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.789  | 117   | 105408   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191 | 152   | 55501    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.281  | 65    | 16359    | 4.271    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 85.400%  |
| 7) Chloroethane-d5            | 1.535  | 69    | 21717    | 4.950    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 99.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.063  | 65    | 10078    | 4.471    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 89.400%  |
| 20) 2-Butanone-d5             | 3.815  | 46    | 113481   | 61.207   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 122.420% |
| 24) Chloroform-d              | 4.256  | 84    | 61958    | 4.780    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 95.600%  |
| 26) 1,2-Dichloroethane-d4     | 4.950  | 65    | 32040    | 4.797    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 96.000%  |
| 32) Benzene-d6                | 4.966  | 84    | 116738   | 4.867    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 97.400%  |
| 36) 1,2-Dichloropropane-d6    | 5.995  | 67    | 41032    | 4.851    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 97.000%  |
| 41) Toluene-d8                | 7.249  | 98    | 105249   | 4.729    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 94.600%  |
| 43) trans-1,3-Dichloroprop... | 7.564  | 79    | 14116    | 4.577    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 91.600%  |
| 46) 2-Hexanone-d5             | 8.030  | 63    | 89722    | 54.561   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 109.120% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159 | 84    | 32018    | 5.276    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 105.600% |
| 66) 1,2-Dichlorobenzene-d4    | 11.564 | 152   | 42868    | 4.769    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 95.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.108  | 85    | 829      | 0.128    | ug/L   | 99       |
| 3) Chloromethane              | 1.217  | 50    | 1029     | 0.148    | ug/L   | 90       |
| 12) 1,1-Dichloroethene        | 2.072  | 96    | 4363     | 0.855    | ug/L # | 1        |
| 17) Methyl tert-butyl Ether   | 2.709  | 73    | 2451     | 0.155    | ug/L # | 78       |
| 19) 1,1-Dichloroethane        | 3.121  | 63    | 4961     | 0.416    | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 3.821  | 96    | 21061    | 3.160    | ug/L   | 99       |
| 25) Chloroform                | 4.281  | 83    | 26235    | 2.160    | ug/L   | 96       |
| 31) Carbon tetrachloride      | 4.741  | 117   | 1423     | 0.173    | ug/L   | 85       |
| 34) Trichloroethene           | 5.841  | 95    | 17510    | 2.467    | ug/L   | 97       |
| 35) Methylcyclohexane         | 5.995  | 83    | 9596     | 0.929    | ug/L # | 20       |
| 37) 1,2-Dichloropropane       | 5.995  | 63    | 4484     | 0.670    | ug/L # | 87       |
| 47) Tetrachloroethene         | 7.918  | 164   | 815      | 0.180    | ug/L   | 86       |
| 49) Dibromochloromethane      | 7.908  | 129   | 504      | 0.101    | ug/L # | 11       |
| 61) 1,2,3-Trichloropropane    | 11.191 | 75    | 7355     | 1.799    | ug/L # | 68       |
| 68) 1,2-Dibromo-3-chloropr... | 12.191 | 75    | 262      | 0.283    | ug/L # | 9        |
| -----                         |        |       |          |          |        |          |

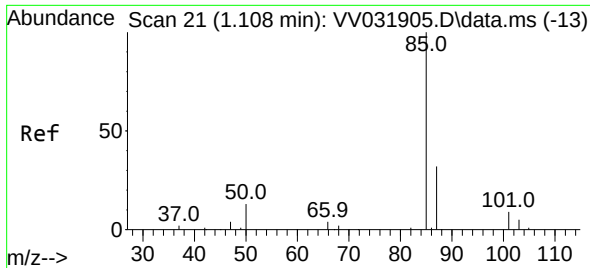
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV082423\  
Data File : VV031919.D  
Acq On : 24 Aug 2023 19:11  
Operator : SY/MD  
Sample : 04153-01  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 69 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Aug 25 01:01:00 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR082323WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Aug 25 00:56:34 2023  
Response via : Initial Calibration

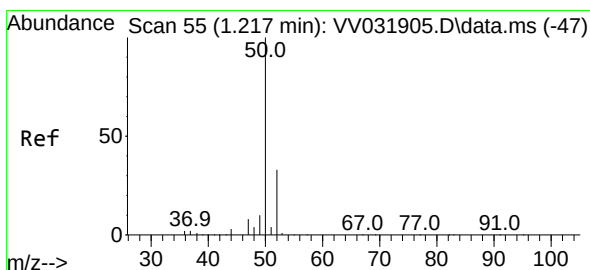
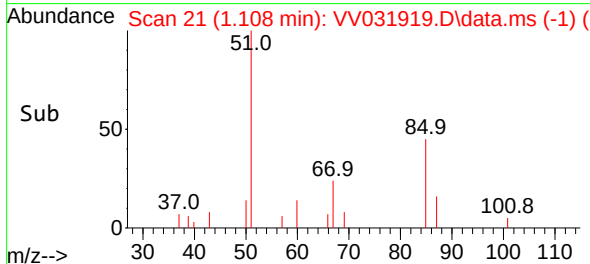
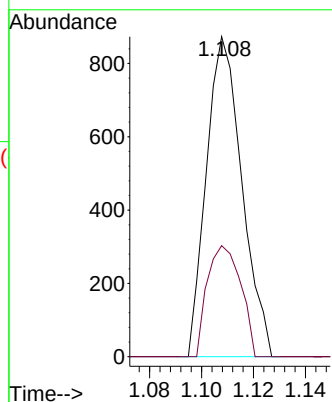
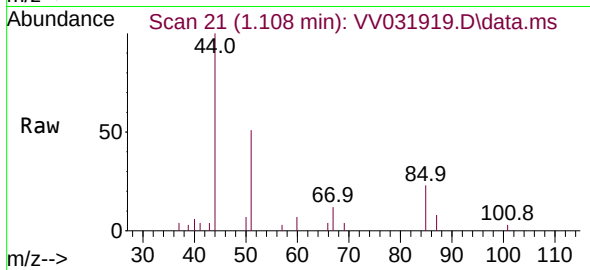




#2  
Dichlorodifluoromethane  
Concen: 0.128 ug/L  
RT: 1.108 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VV031919.D  
Acq: 24 Aug 2023 19:11

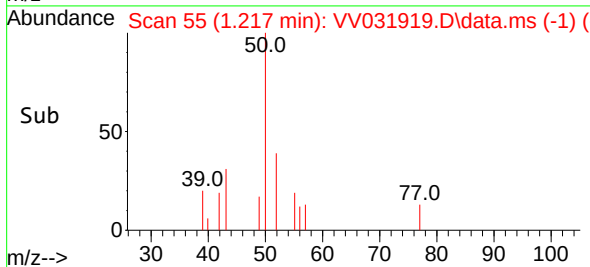
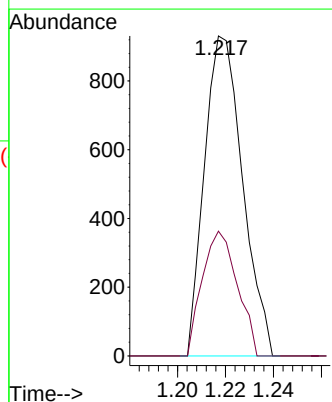
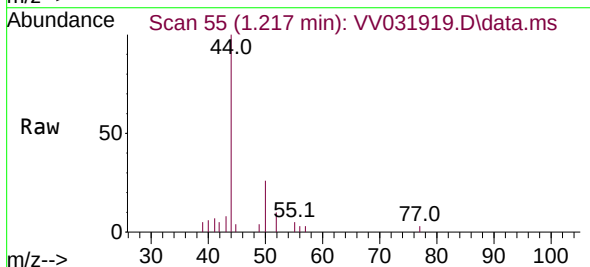
Instrument :  
MSVOA\_V  
ClientSampleId :

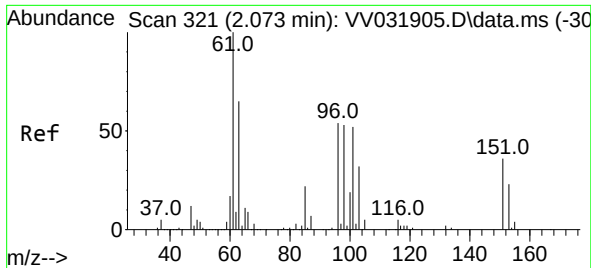
Tgt Ion: 85 Resp: 829  
Ion Ratio Lower Upper  
85 100  
87 32.6 25.7 38.5



#3  
Chloromethane  
Concen: 0.148 ug/L  
RT: 1.217 min Scan# 55  
Delta R.T. -0.000 min  
Lab File: VV031919.D  
Acq: 24 Aug 2023 19:11

Tgt Ion: 50 Resp: 1029  
Ion Ratio Lower Upper  
50 100  
52 39.0 23.3 43.3





#12

1,1-Dichloroethene

Concen: 0.855 ug/L

RT: 2.072 min Scan# 31

Delta R.T. -0.000 min

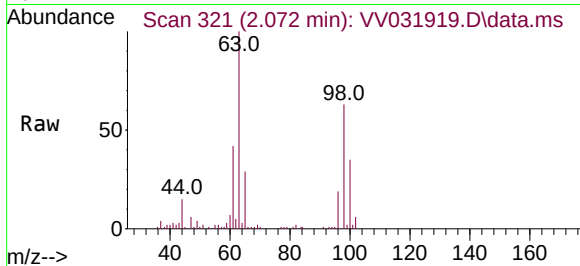
Lab File: VV031919.D

Acq: 24 Aug 2023 19:11

Instrument :

MSVOA\_V

ClientSampleId :



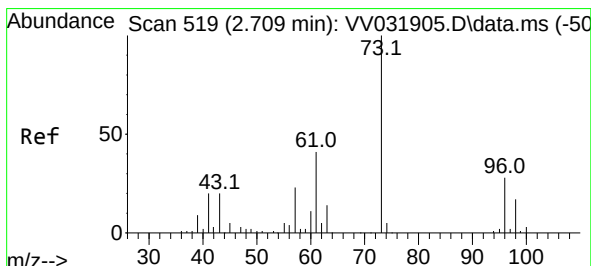
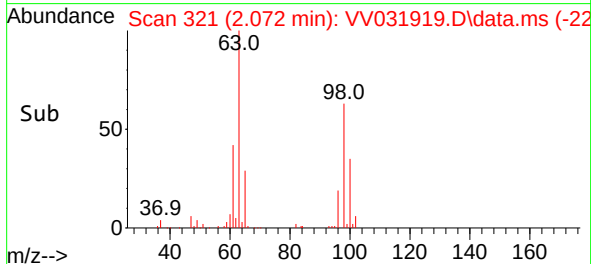
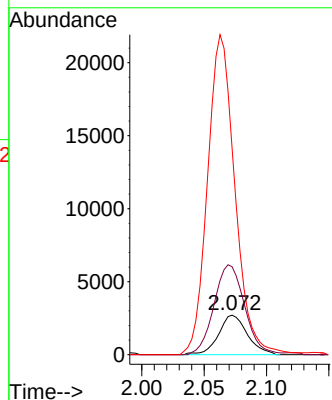
Tgt Ion: 96 Resp: 4363

Ion Ratio Lower Upper

96 100

61 222.5 129.0 239.6

63 524.0 99.0 183.8#



#17

Methyl tert-butyl Ether

Concen: 0.155 ug/L

RT: 2.709 min Scan# 519

Delta R.T. -0.000 min

Lab File: VV031919.D

Acq: 24 Aug 2023 19:11

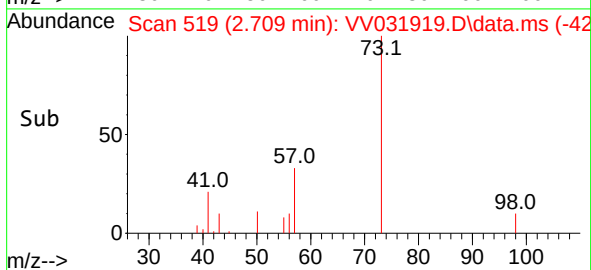
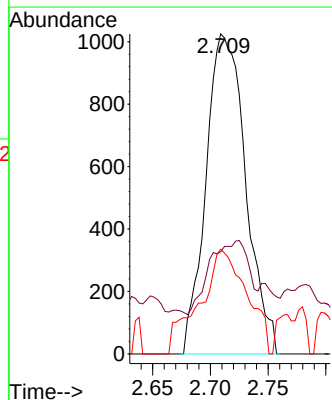
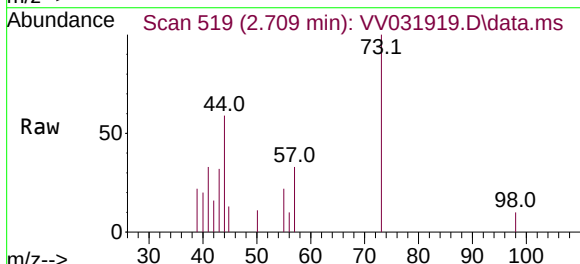
Tgt Ion: 73 Resp: 2451

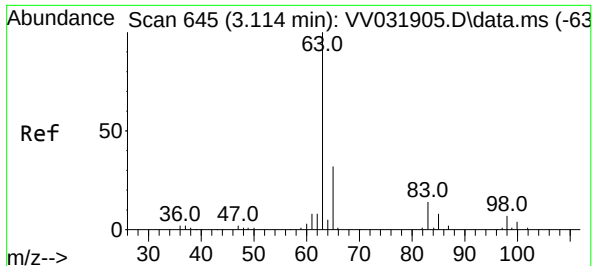
Ion Ratio Lower Upper

73 100

43 22.9 15.6 23.4

57 39.0 17.8 26.8#





#19

1,1-Dichloroethane

Concen: 0.416 ug/L

RT: 3.121 min Scan# 64

Delta R.T. 0.006 min

Lab File: VV031919.D

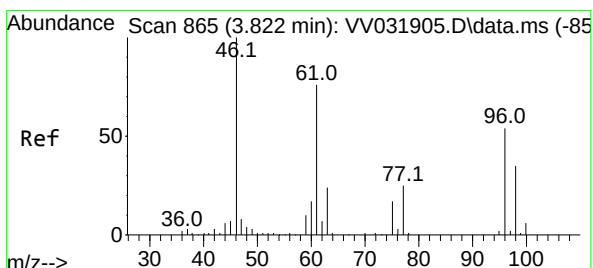
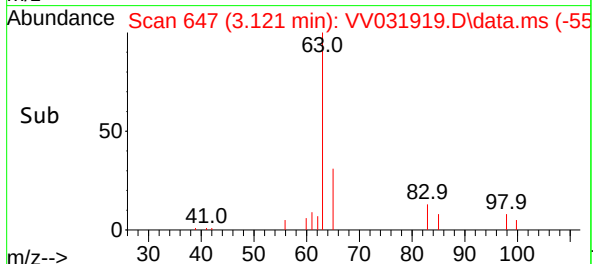
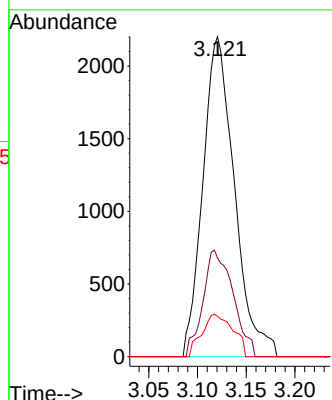
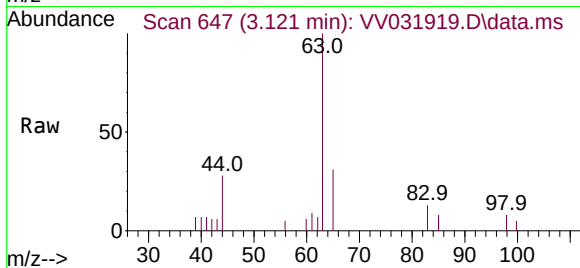
Acq: 24 Aug 2023 19:11

Instrument :

MSVOA\_V

ClientSampleId :

|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 4961  |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 65 30.8     | 21.9 40.7   |
| 83 12.6     | 9.2 17.2    |



#22

cis-1,2-Dichloroethene

Concen: 3.160 ug/L

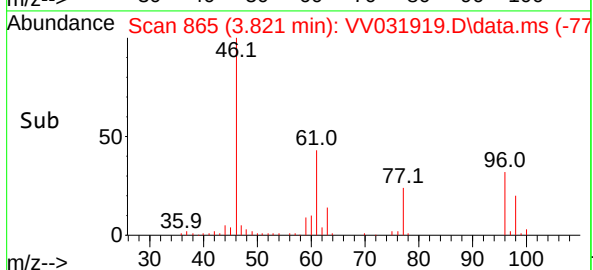
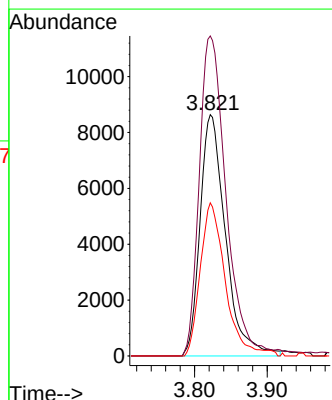
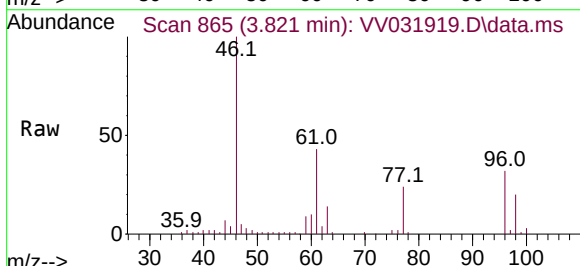
RT: 3.821 min Scan# 865

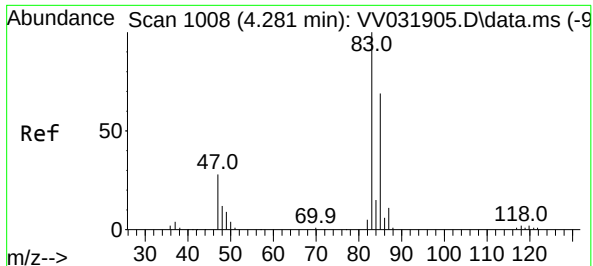
Delta R.T. -0.000 min

Lab File: VV031919.D

Acq: 24 Aug 2023 19:11

|             |             |
|-------------|-------------|
| Tgt Ion: 96 | Resp: 21061 |
| Ion Ratio   | Lower Upper |
| 96 100      |             |
| 61 132.6    | 94.1 174.8  |
| 98 63.5     | 43.8 81.4   |





#25

Chloroform

Concen: 2.160 ug/L

RT: 4.281 min Scan# 1100

Delta R.T. -0.000 min

Lab File: VV031919.D

Acq: 24 Aug 2023 19:11

Instrument :

MSVOA\_V

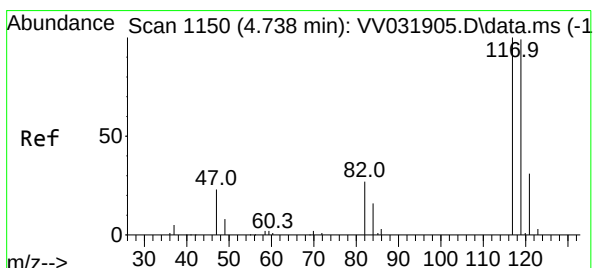
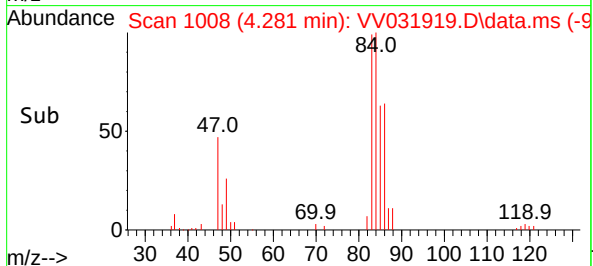
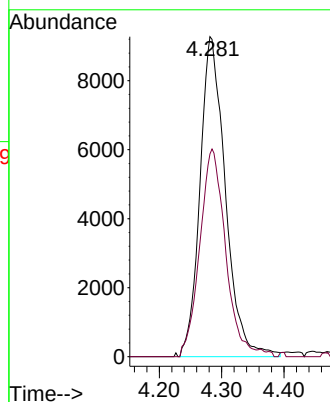
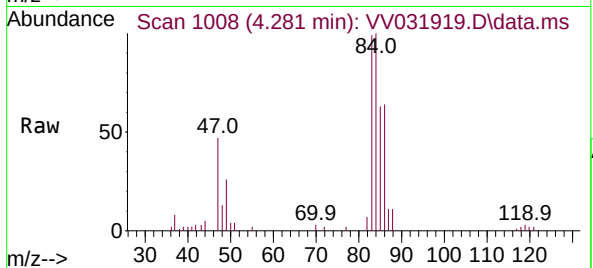
ClientSampleId :

Tgt Ion: 83 Resp: 26235

Ion Ratio Lower Upper

83 100

85 63.3 46.4 86.2



#31

Carbon tetrachloride

Concen: 0.173 ug/L

RT: 4.741 min Scan# 1151

Delta R.T. 0.003 min

Lab File: VV031919.D

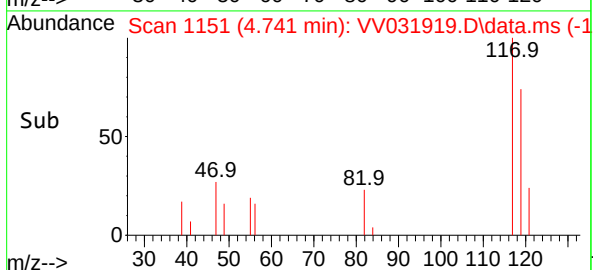
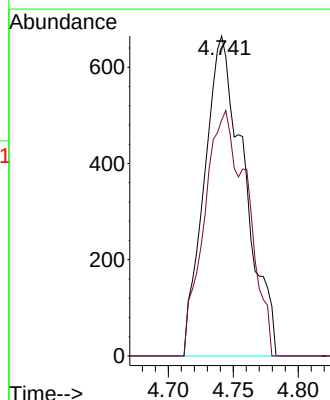
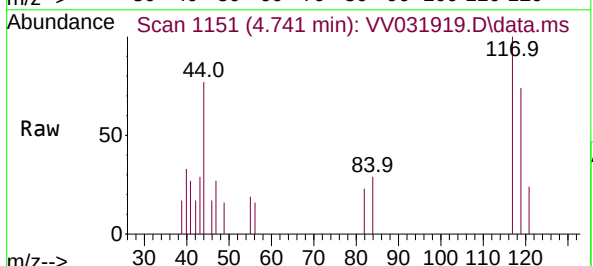
Acq: 24 Aug 2023 19:11

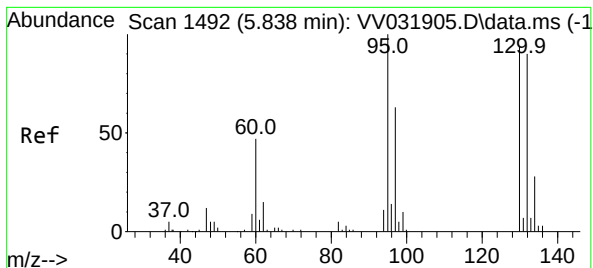
Tgt Ion: 117 Resp: 1423

Ion Ratio Lower Upper

117 100

119 82.9 78.4 117.6





#34

Trichloroethene

Concen: 2.467 ug/L

RT: 5.841 min Scan# 1493

Delta R.T. 0.003 min

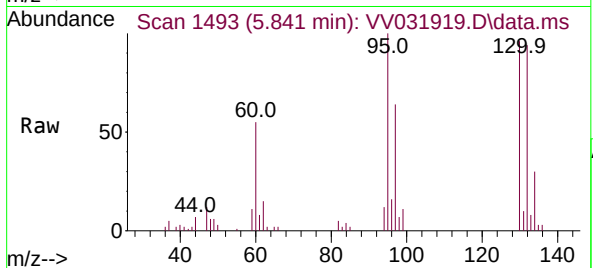
Lab File: VV031919.D

Acq: 24 Aug 2023 19:11

Instrument :

MSVOA\_V

ClientSampleId :



Tgt Ion: 95 Resp: 17510

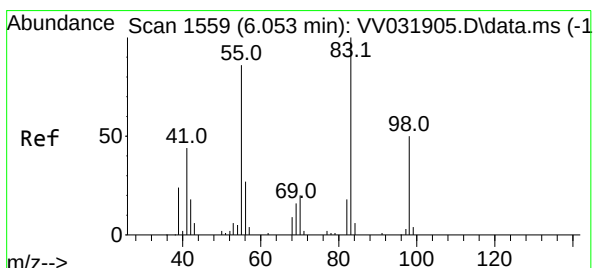
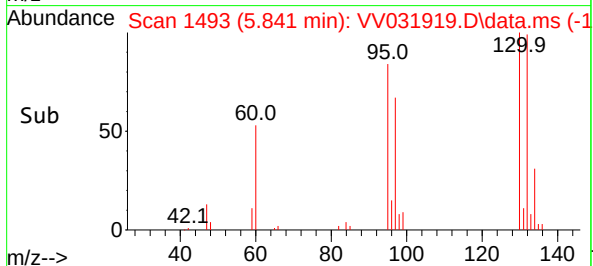
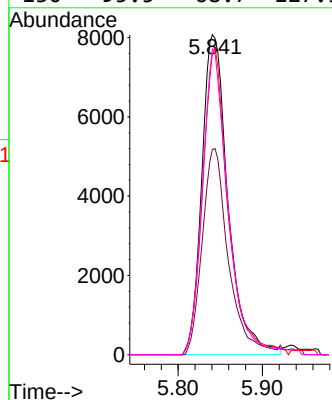
Ion Ratio Lower Upper

95 100

97 64.2 47.7 88.7

132 94.1 63.8 118.4

130 95.5 68.7 127.5



#35

Methylcyclohexane

Concen: 0.929 ug/L

RT: 5.995 min Scan# 1541

Delta R.T. -0.058 min

Lab File: VV031919.D

Acq: 24 Aug 2023 19:11

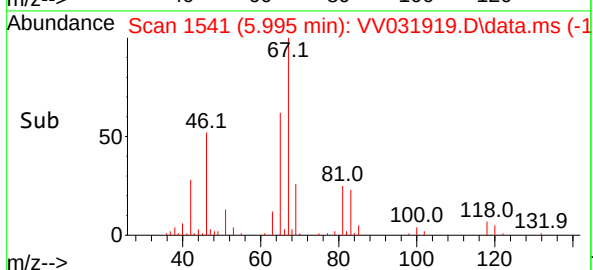
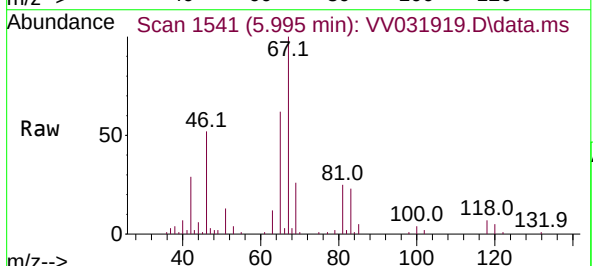
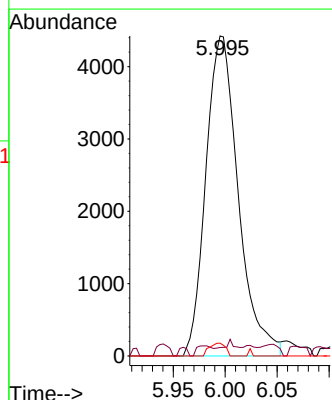
Tgt Ion: 83 Resp: 9596

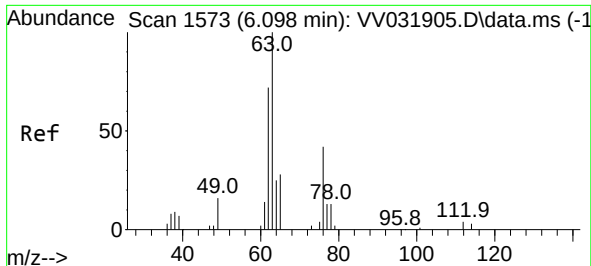
Ion Ratio Lower Upper

83 100

55 1.9 62.6 94.0#

98 2.0 37.8 56.8#





#37

1,2-Dichloropropane

Concen: 0.670 ug/L

RT: 5.995 min Scan# 11

Delta R.T. -0.103 min

Lab File: VV031919.D

Acq: 24 Aug 2023 19:11

Instrument :

MSVOA\_V

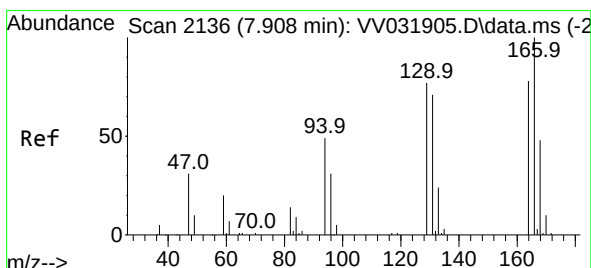
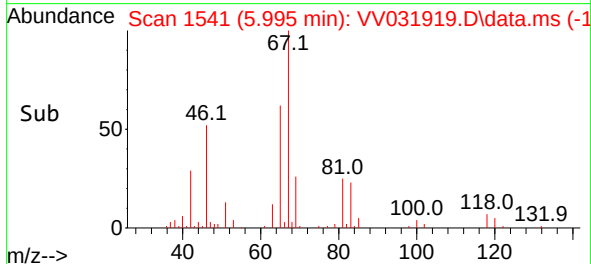
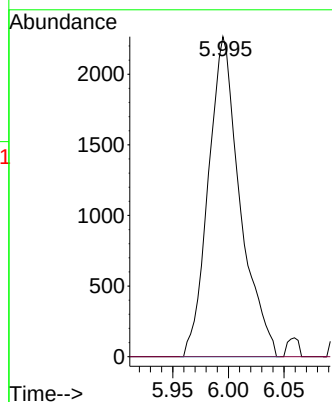
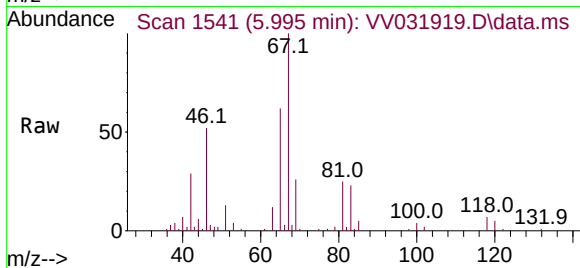
ClientSampleId :

Tgt Ion: 63 Resp: 4484

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.2#



#47

Tetrachloroethene

Concen: 0.180 ug/L

RT: 7.918 min Scan# 2139

Delta R.T. 0.009 min

Lab File: VV031919.D

Acq: 24 Aug 2023 19:11

Tgt Ion:164 Resp: 815

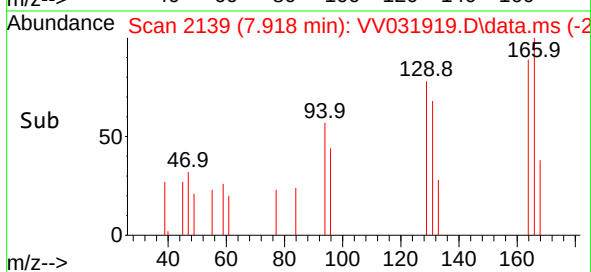
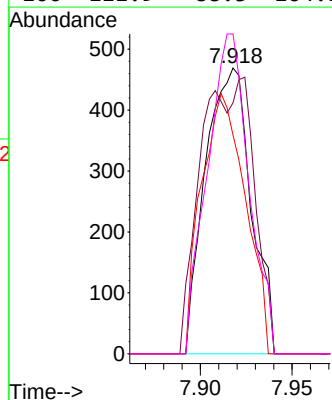
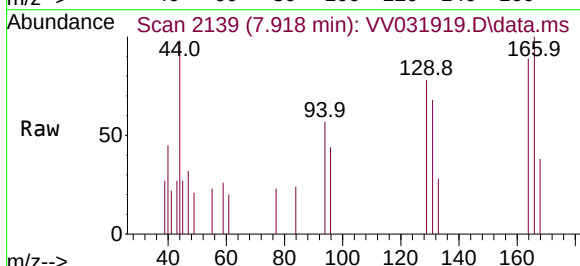
Ion Ratio Lower Upper

164 100

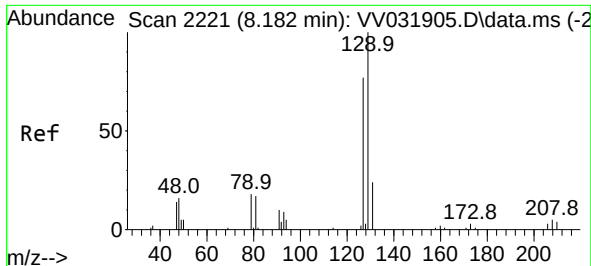
129 87.8 70.6 131.2

131 76.5 64.6 120.0

166 111.9 88.3 164.1







#49

Dibromochloromethane

Concen: 0.101 ug/L

RT: 7.908 min Scan# 2136

Delta R.T. -0.274 min

Lab File: VV031919.D

Acq: 24 Aug 2023 19:11

Instrument :

MSVOA\_V

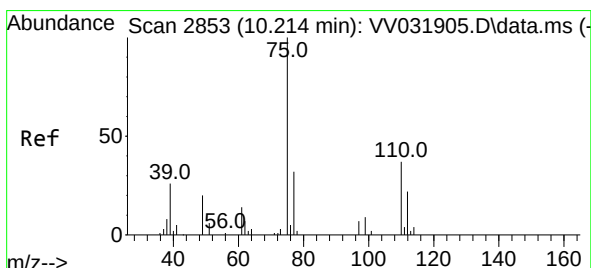
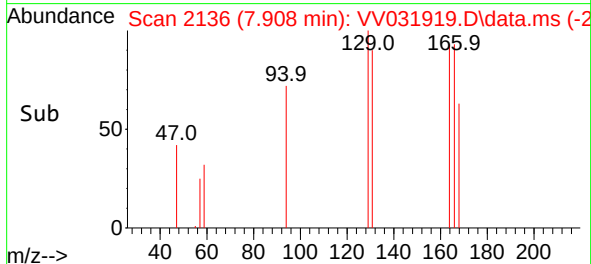
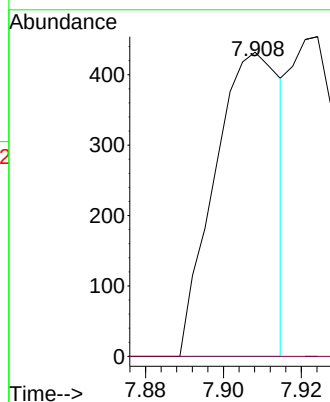
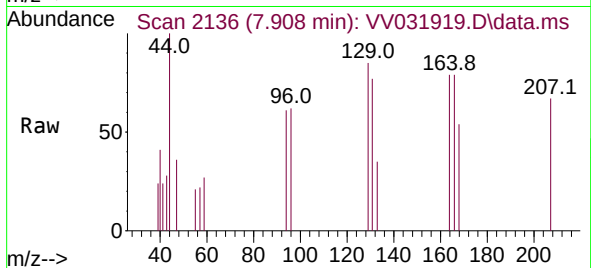
ClientSampleId :

Tgt Ion:129 Resp: 504

Ion Ratio Lower Upper

129 100

127 0.0 53.7 99.7#



#61

1,2,3-Trichloropropane

Concen: 1.799 ug/L

RT: 11.191 min Scan# 3157

Delta R.T. 0.977 min

Lab File: VV031919.D

Acq: 24 Aug 2023 19:11

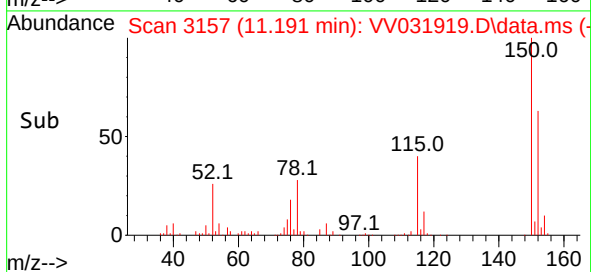
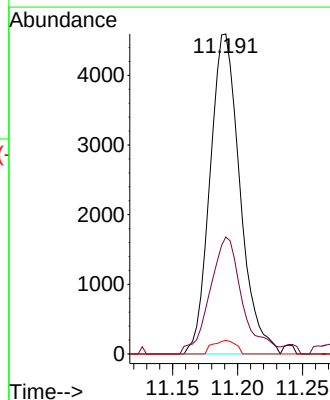
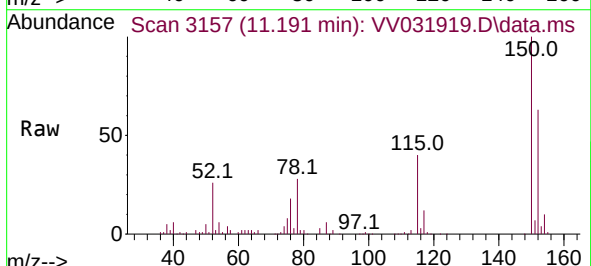
Tgt Ion: 75 Resp: 7355

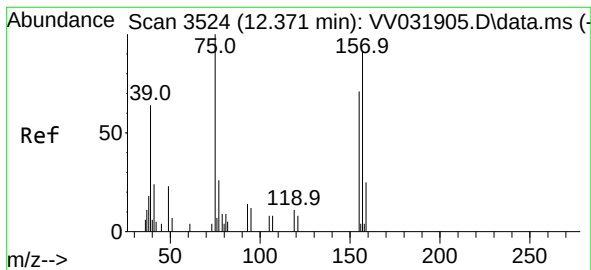
Ion Ratio Lower Upper

75 100

77 39.5 28.8 43.2

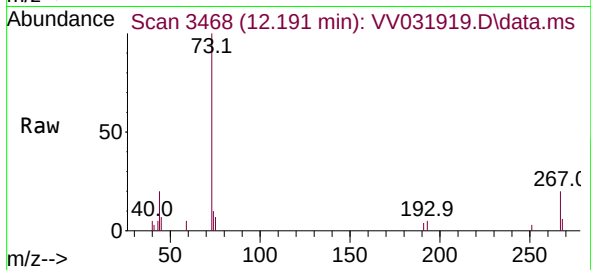
110 3.2 30.2 45.2#





#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 0.283 ug/L  
 RT: 12.191 min Scan# 34  
 Delta R.T. -0.180 min  
 Lab File: VV031919.D  
 Acq: 24 Aug 2023 19:11

Instrument :  
 MSVOA\_V  
 ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 262    |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 155      | 0.0   | 56.1  | 84.1#  |
| 157      | 0.0   | 71.1  | 106.7# |

