

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW070822\  
 Data File : VW026701.D  
 Acq On : 08 Jul 2022 16:47  
 Operator : SY/MD  
 Sample : N3598-12  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 COAJ0

Quant Time: Jul 08 23:57:48 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR062322WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Jul 08 23:50:05 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.625  | 114   | 171097   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.853  | 117   | 170017   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.249 | 152   | 66975    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.323  | 65    | 53150    | 3.863    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 77.200%  |
| 7) Chloroethane-d5            | 1.584  | 69    | 49816    | 4.507    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 90.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.121  | 63    | 75449    | 3.086    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 61.800%  |
| 20) 2-Butanone-d5             | 3.921  | 46    | 49907    | 36.482   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 72.960%  |
| 24) Chloroform-d              | 4.362  | 84    | 112636   | 5.008    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 100.200% |
| 26) 1,2-Dichloroethane-d4     | 5.043  | 65    | 43796    | 5.055    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 101.200% |
| 32) Benzene-d6                | 5.063  | 84    | 189546   | 3.881    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 77.600%  |
| 36) 1,2-Dichloropropane-d6    | 6.079  | 67    | 63141    | 4.702    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 94.000%  |
| 41) Toluene-d8                | 7.320  | 98    | 138001   | 3.142    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 62.800%# |
| 43) trans-1,3-Dichloroprop... | 7.628  | 79    | 11853    | 3.415    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 68.200%  |
| 46) 2-Hexanone-d5             | 8.095  | 63    | 63505    | 48.032   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 96.060%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.217 | 84    | 46106    | 5.248    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 105.000% |
| 66) 1,2-Dichlorobenzene-d4    | 11.622 | 152   | 53489    | 4.826    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 96.600%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.259  | 50    | 2145     | 0.151    | ug/L   | 97       |
| 5) Vinyl chloride             | 1.326  | 62    | 4301     | 0.284    | ug/L # | 1        |
| 6) Bromomethane               | 1.539  | 94    | 999      | 0.122    | ug/L   | 96       |
| 8) Chloroethane               | 1.429  | 64    | 28101    | 2.724    | ug/L # | 55       |
| 12) 1,1-Dichloroethene        | 2.127  | 96    | 1006     | 0.087    | ug/L # | 1        |
| 13) Acetone                   | 2.207  | 43    | 7018     | 8.087    | ug/L   | 68       |
| 14) Carbon disulfide          | 2.307  | 76    | 8109     | 0.266    | ug/L   | 99       |
| 17) Methyl tert-butyl Ether   | 2.789  | 73    | 1439     | 0.076    | ug/L # | 32       |
| 18) trans-1,2-Dichloroethene  | 2.773  | 96    | 1314     | 0.111    | ug/L   | 87       |
| 21) 2-Butanone                | 4.108  | 43    | 23234    | 17.796   | ug/L # | 48       |
| 22) cis-1,2-Dichloroethene    | 3.931  | 96    | 15148    | 1.294    | ug/L   | 97       |
| 25) Chloroform                | 4.391  | 83    | 49407    | 2.182    | ug/L   | 99       |
| 27) 1,2-Dichloroethane        | 5.056  | 62    | 599      | 0.059    | ug/L # | 72       |
| 34) Trichloroethene           | 5.928  | 95    | 14207    | 1.089    | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.075  | 83    | 15621    | 0.809    | ug/L # | 20       |
| 38) Bromodichloromethane      | 6.516  | 83    | 45714    | 3.237    | ug/L # | 97       |
| 39) cis-1,3-Dichloropropene   | 6.992  | 75    | 860      | 0.072    | ug/L # | 72       |
| 42) Toluene                   | 7.391  | 91    | 183447   | 3.580    | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 7.976  | 97    | 918      | 0.122    | ug/L # | 1        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV070822\  
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 Sample : N3598-12  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AJ0

Quant Time: Jul 08 23:57:48 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR062322WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Jul 08 23:50:05 2022  
 Response via : Initial Calibration

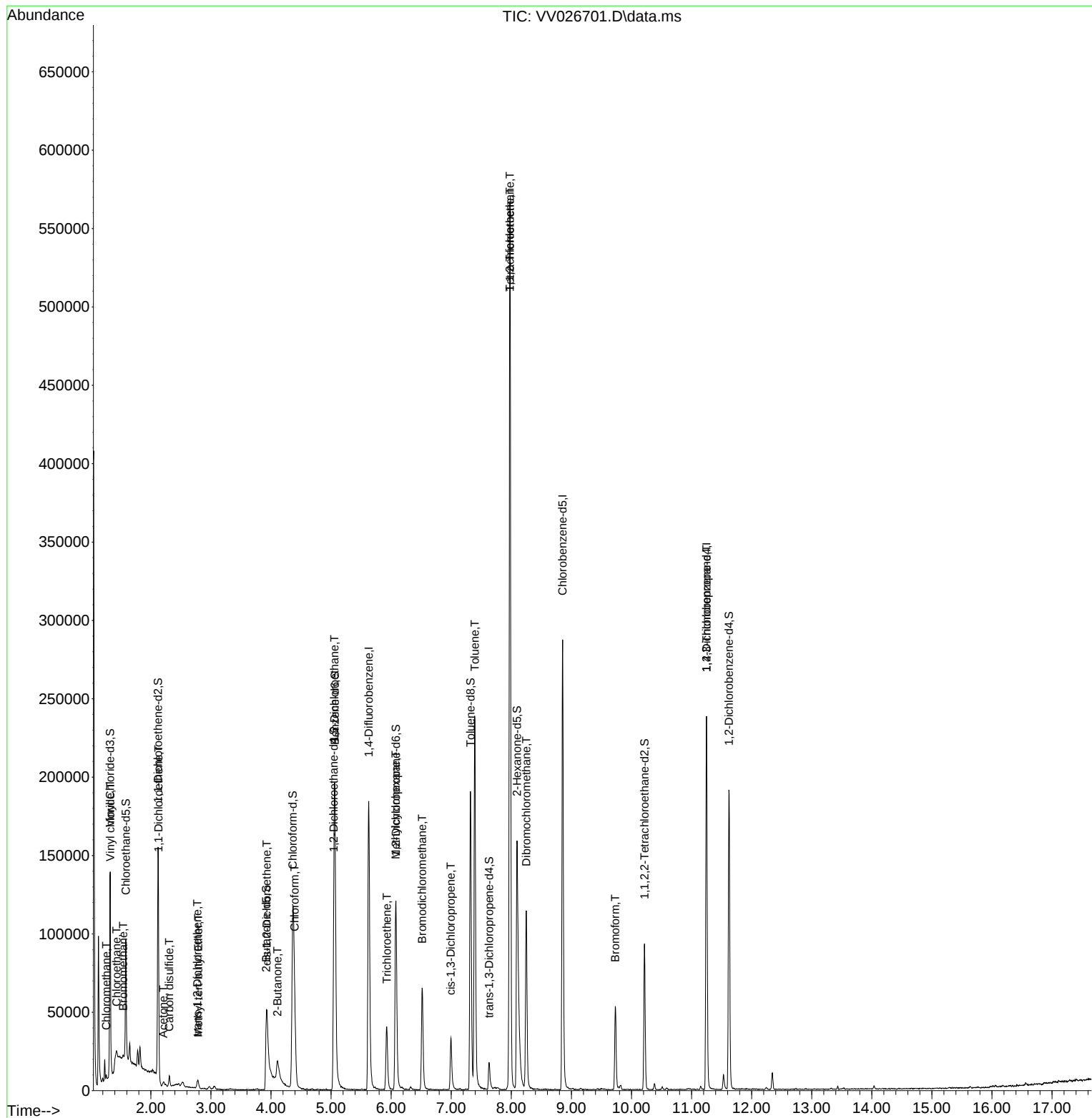
| Compound                   | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|----------------------------|--------|------|----------|--------|--------|----------|
| 47) Tetrachloroethene      | 7.976  | 164  | 131009   | 12.609 | ug/L   | 99       |
| 49) Dibromochloromethane   | 8.249  | 129  | 60189    | 7.878  | ug/L   | 99       |
| 59) Bromoform              | 9.731  | 173  | 24249    | 9.825  | ug/L   | 93       |
| 61) 1,2,3-Trichloropropane | 11.249 | 75   | 7358     | 1.697  | ug/L # | 62       |

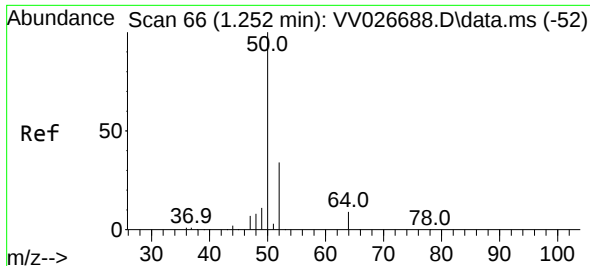
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 08 23:50:05 2022  
Response via : Initial Calibration

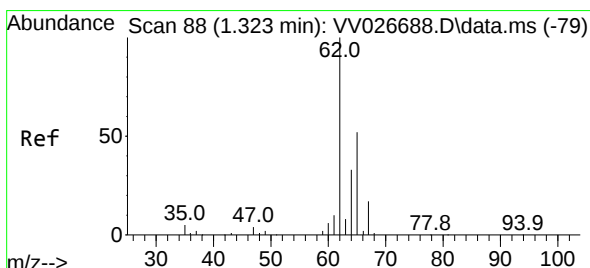
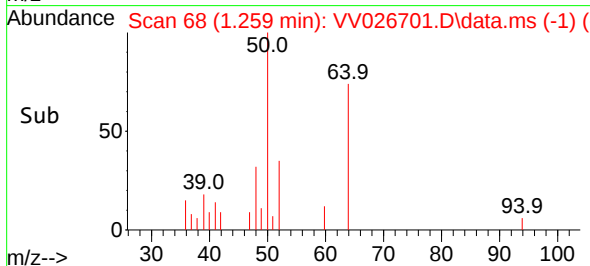
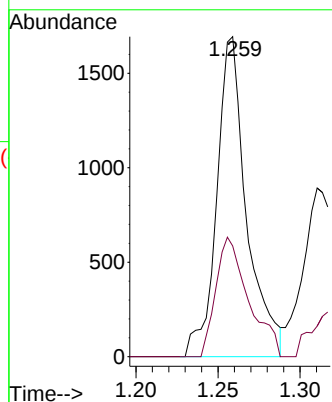
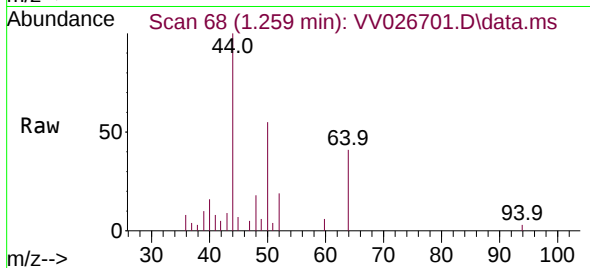




#3  
Chloromethane  
Concen: 0.151 ug/L  
RT: 1.259 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VV026701.D  
Acq: 08 Jul 2022 16:47

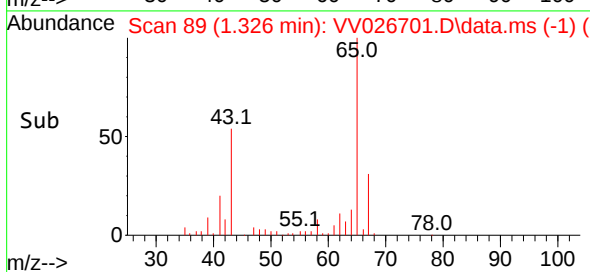
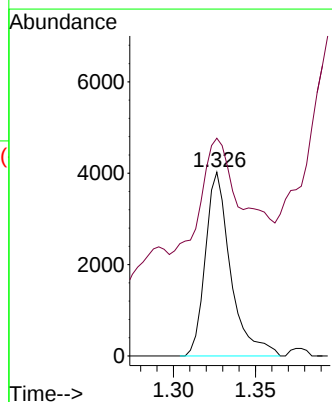
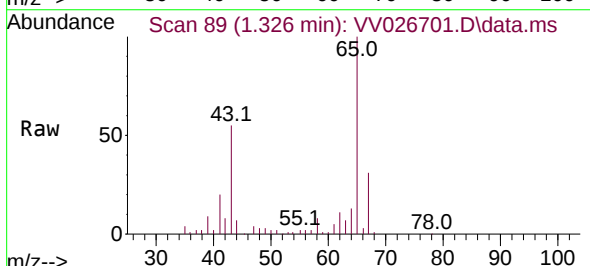
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AJ0

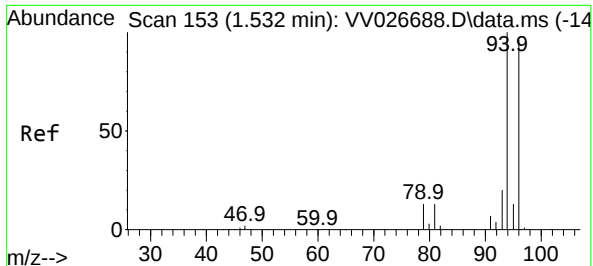
Tgt Ion: 50 Resp: 2145  
Ion Ratio Lower Upper  
50 100  
52 34.6 23.0 42.6



#5  
Vinyl chloride  
Concen: 0.284 ug/L  
RT: 1.326 min Scan# 89  
Delta R.T. 0.003 min  
Lab File: VV026701.D  
Acq: 08 Jul 2022 16:47

Tgt Ion: 62 Resp: 4301  
Ion Ratio Lower Upper  
62 100  
64 118.4 26.2 48.6#

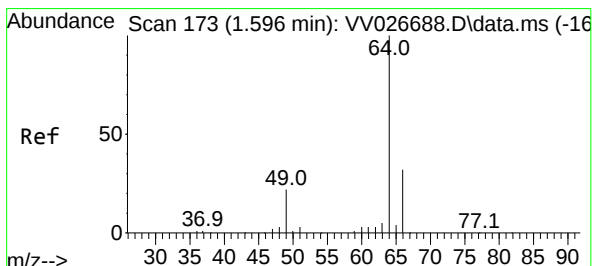
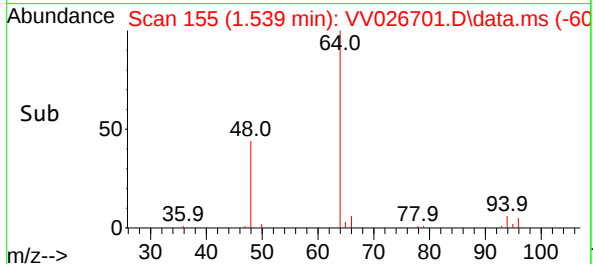
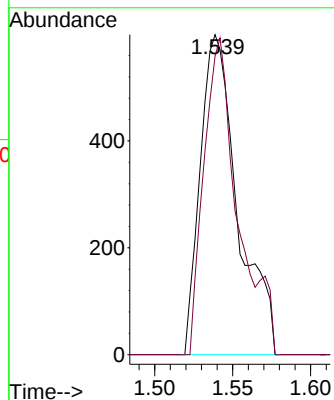
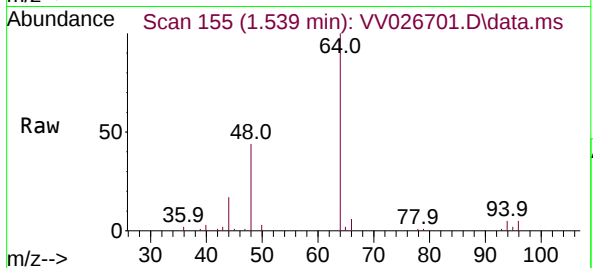




#6  
Bromomethane  
Concen: 0.122 ug/L  
RT: 1.539 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VV026701.D  
Acq: 08 Jul 2022 16:47

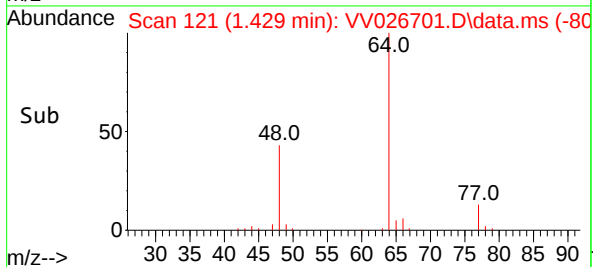
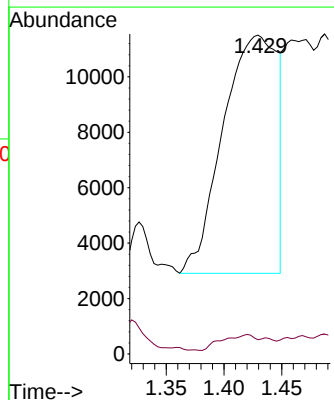
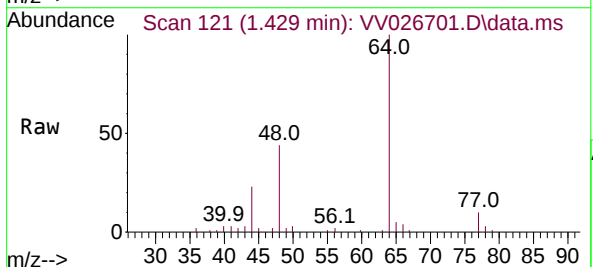
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AJ0

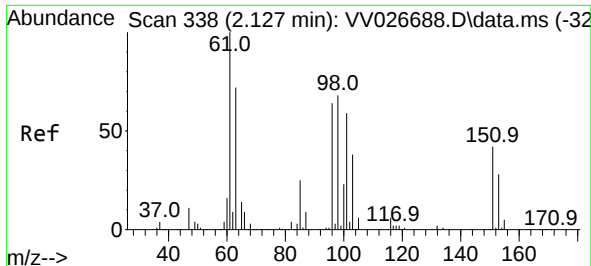
Tgt Ion: 94 Resp: 999  
Ion Ratio Lower Upper  
94 100  
96 93.3 68.0 126.2



#8  
Chloroethane  
Concen: 2.724 ug/L  
RT: 1.429 min Scan# 121  
Delta R.T. -0.167 min  
Lab File: VV026701.D  
Acq: 08 Jul 2022 16:47

Tgt Ion: 64 Resp: 28101  
Ion Ratio Lower Upper  
64 100  
66 4.5 20.0 37.2#





#12

1,1-Dichloroethene

Concen: 0.087 ug/L

RT: 2.127 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV026701.D

Acq: 08 Jul 2022 16:47

Instrument :

MSVOA\_V

ClientSampleId :

C0AJ0

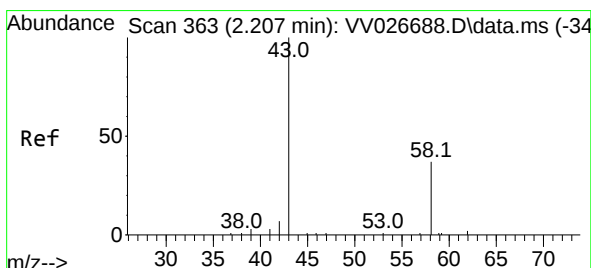
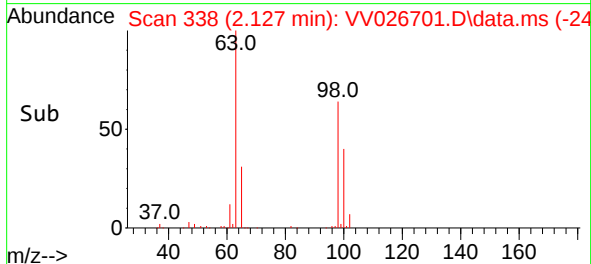
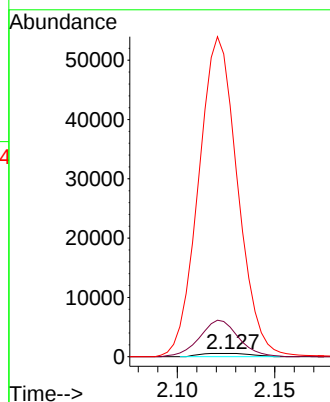
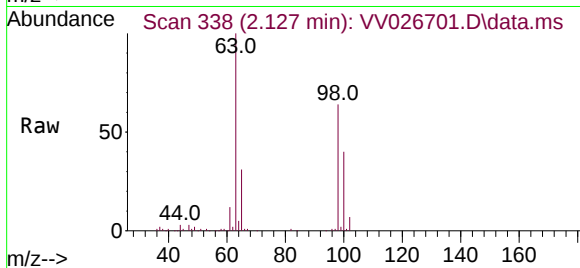
Tgt Ion: 96 Resp: 1006

Ion Ratio Lower Upper

96 100

61 903.3 115.4 214.4#

63 7678.3 87.4 162.2#



#13

Acetone

Concen: 8.087 ug/L

RT: 2.207 min Scan# 363

Delta R.T. 0.000 min

Lab File: VV026701.D

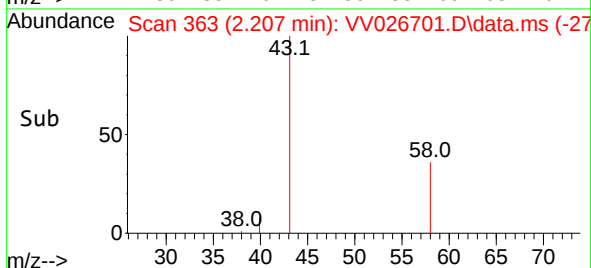
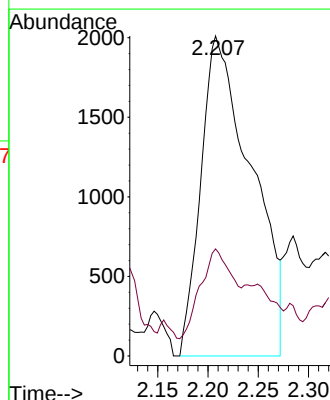
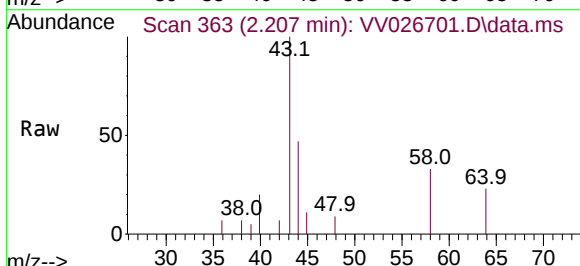
Acq: 08 Jul 2022 16:47

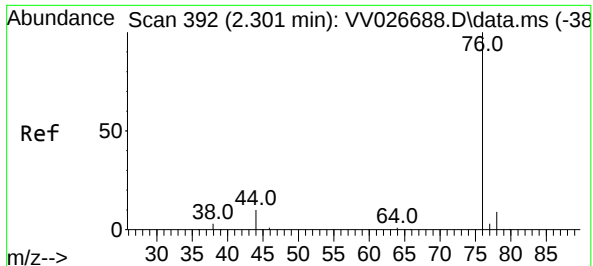
Tgt Ion: 43 Resp: 7018

Ion Ratio Lower Upper

43 100

58 18.2 0.0 75.0

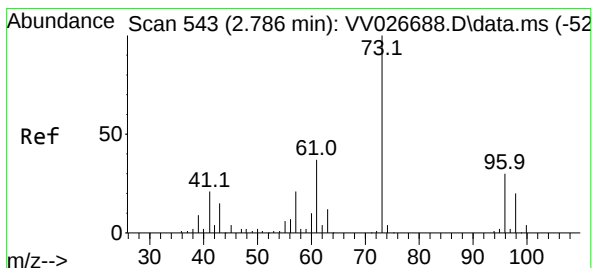
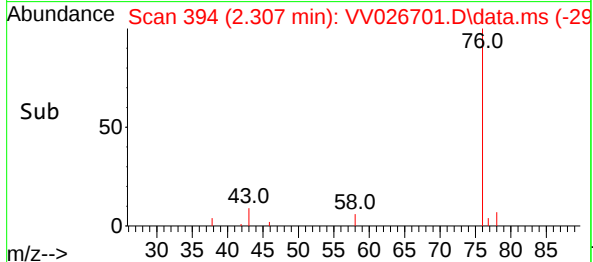
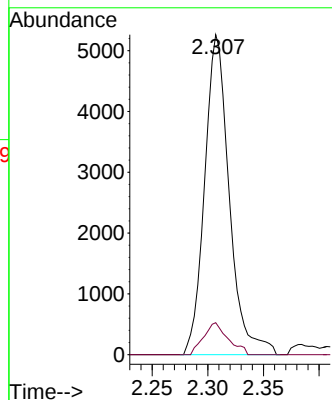
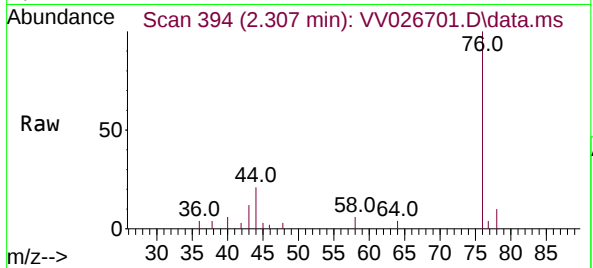




#14  
Carbon disulfide  
Concen: 0.266 ug/L  
RT: 2.307 min Scan# 392  
Delta R.T. 0.006 min  
Lab File: VV026701.D  
Acq: 08 Jul 2022 16:47

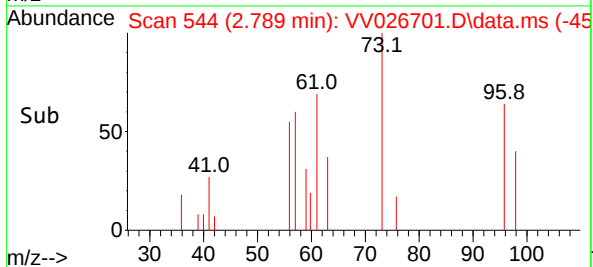
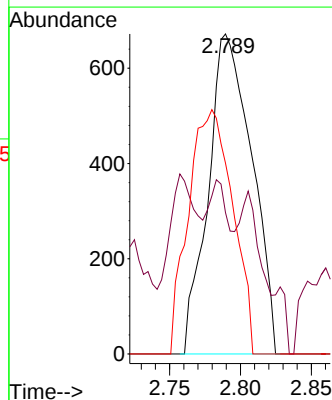
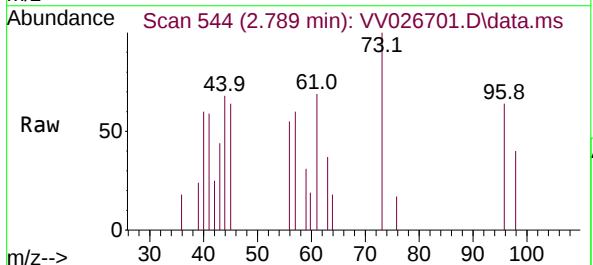
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ClientSampleId :  
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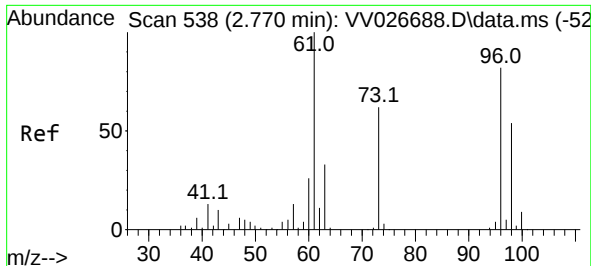
Tgt Ion: 76 Resp: 8109  
Ion Ratio Lower Upper  
76 100  
78 10.0 7.8 11.6



#17  
Methyl tert-butyl Ether  
Concen: 0.076 ug/L  
RT: 2.789 min Scan# 544  
Delta R.T. 0.003 min  
Lab File: VV026701.D  
Acq: 08 Jul 2022 16:47

Tgt Ion: 73 Resp: 1439  
Ion Ratio Lower Upper  
73 100  
43 15.6 13.3 19.9  
57 77.4 17.2 25.8#

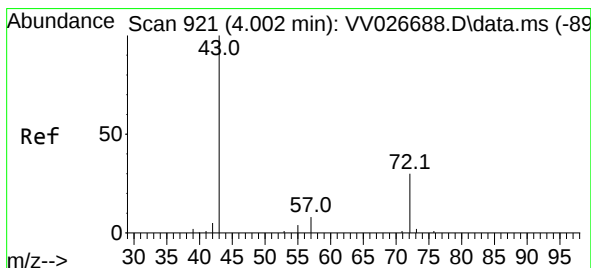
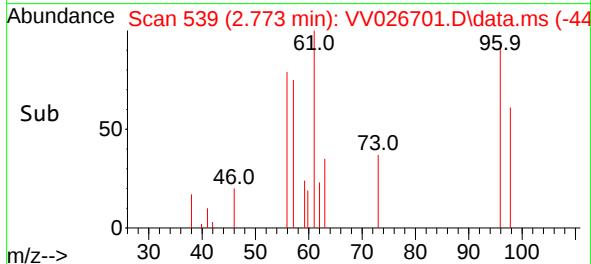
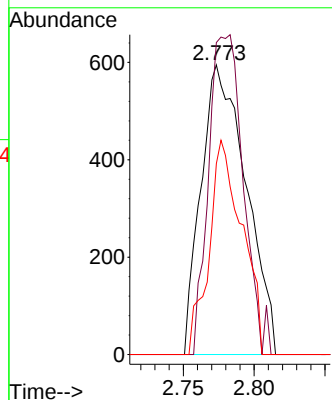
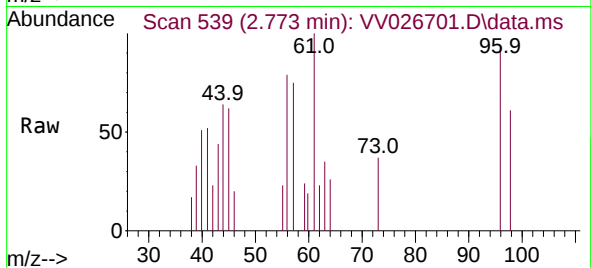




#18  
trans-1,2-Dichloroethene  
Concen: 0.111 ug/L  
RT: 2.773 min Scan# 511  
Delta R.T. 0.003 min  
Lab File: VV026701.D  
Acq: 08 Jul 2022 16:47

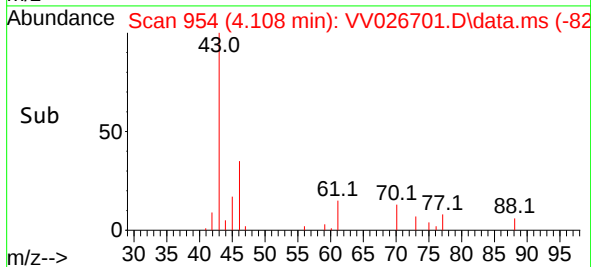
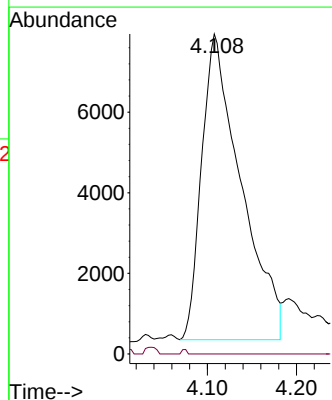
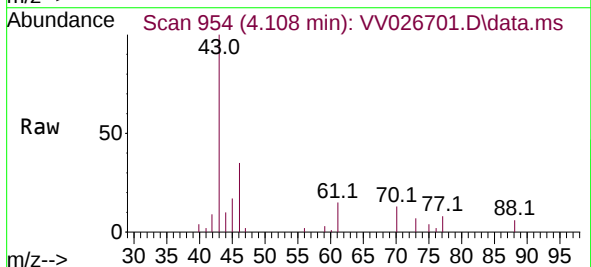
Instrument :  
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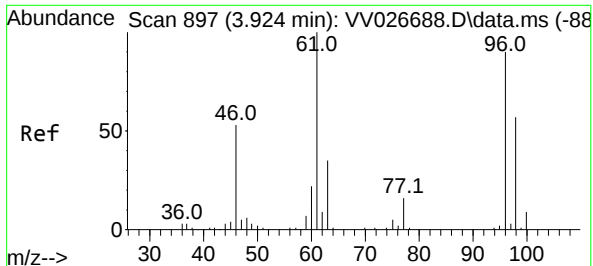
Tgt Ion: 96 Resp: 1314  
Ion Ratio Lower Upper  
96 100  
61 107.7 90.4 167.8  
98 65.9 45.6 84.8



#21  
2-Butanone  
Concen: 17.796 ug/L  
RT: 4.108 min Scan# 954  
Delta R.T. 0.106 min  
Lab File: VV026701.D  
Acq: 08 Jul 2022 16:47

Tgt Ion: 43 Resp: 23234  
Ion Ratio Lower Upper  
43 100  
72 0.2 13.5 40.5#





#22

cis-1,2-Dichloroethene

Concen: 1.294 ug/L

RT: 3.931 min Scan# 897

Delta R.T. 0.006 min

Lab File: VV026701.D

Acq: 08 Jul 2022 16:47

Instrument :

MSVOA\_V

ClientSampleId :

C0AJ0

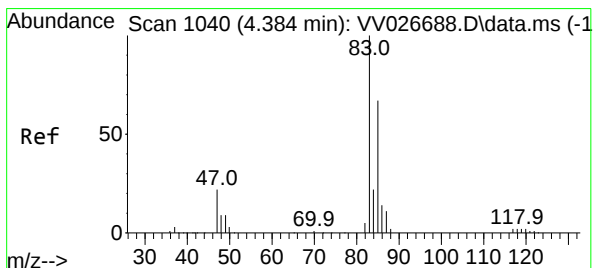
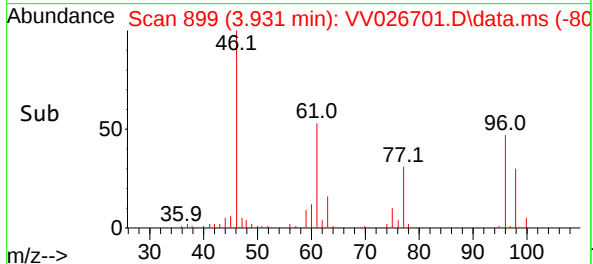
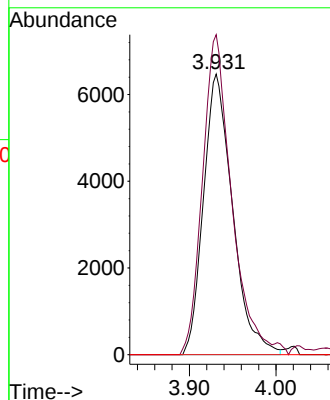
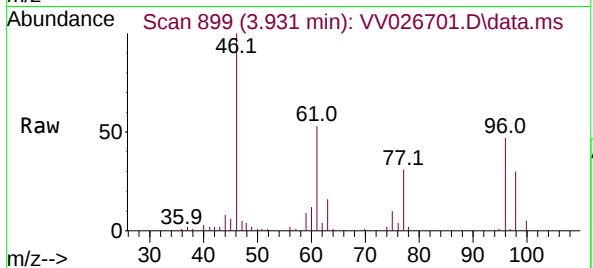
Tgt Ion: 96 Resp: 15148

Ion Ratio Lower Upper

96 100

61 114.0 82.0 152.2

68 0.0 0.0 0.0



#25

Chloroform

Concen: 2.182 ug/L

RT: 4.391 min Scan# 1042

Delta R.T. 0.006 min

Lab File: VV026701.D

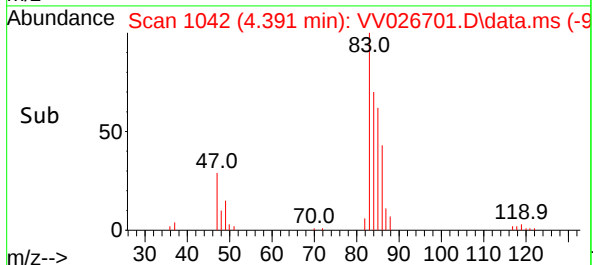
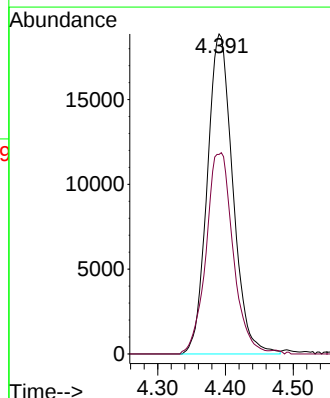
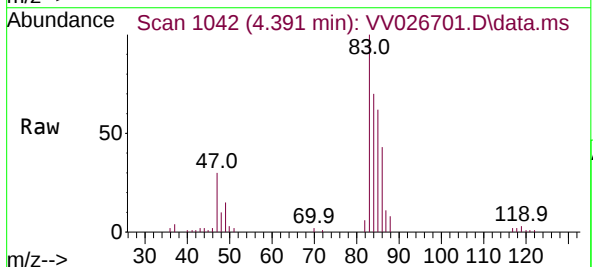
Acq: 08 Jul 2022 16:47

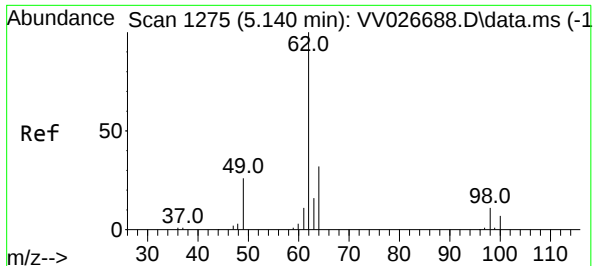
Tgt Ion: 83 Resp: 49407

Ion Ratio Lower Upper

83 100

85 62.4 44.0 81.8





#27

1,2-Dichloroethane

Concen: 0.059 ug/L

RT: 5.056 min Scan# 11

Delta R.T. -0.084 min

Lab File: VV026701.D

Acq: 08 Jul 2022 16:47

Instrument :

MSVOA\_V

ClientSampleId :

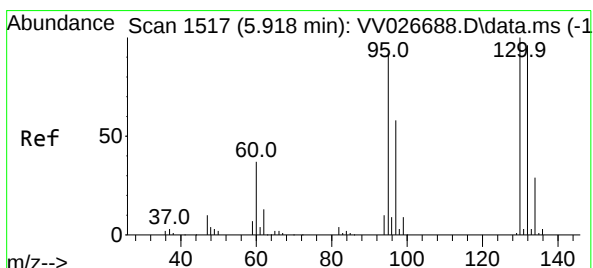
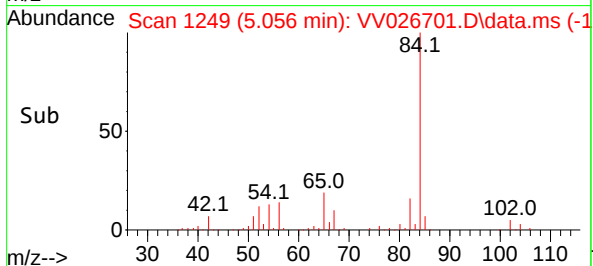
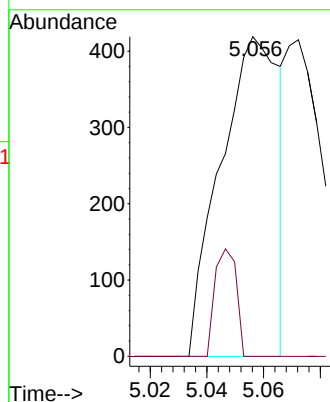
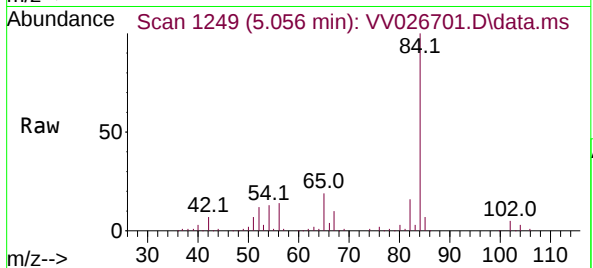
COAJ0

Tgt Ion: 62 Resp: 599

Ion Ratio Lower Upper

62 100

98 0.0 8.4 12.6#



#34

Trichloroethene

Concen: 1.089 ug/L

RT: 5.928 min Scan# 1520

Delta R.T. 0.010 min

Lab File: VV026701.D

Acq: 08 Jul 2022 16:47

Tgt Ion: 95 Resp: 14207

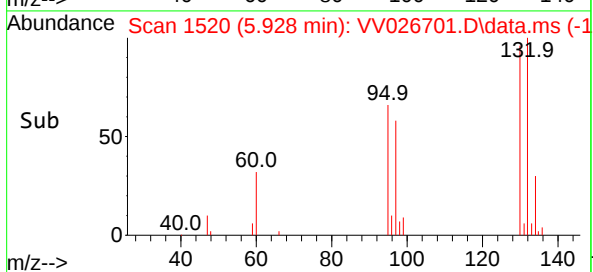
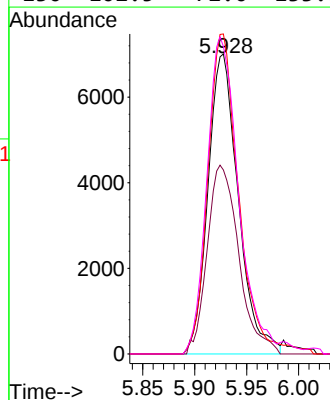
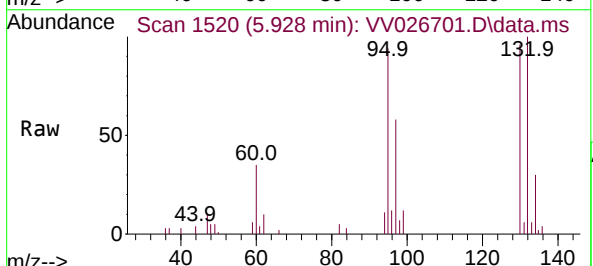
Ion Ratio Lower Upper

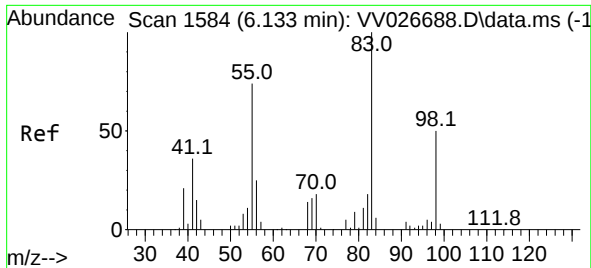
95 100

97 61.4 46.8 87.0

132 106.7 69.9 129.7

130 102.5 72.0 133.8

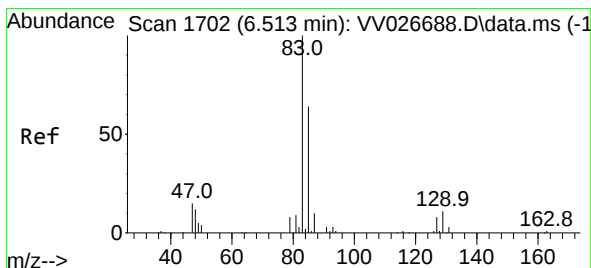
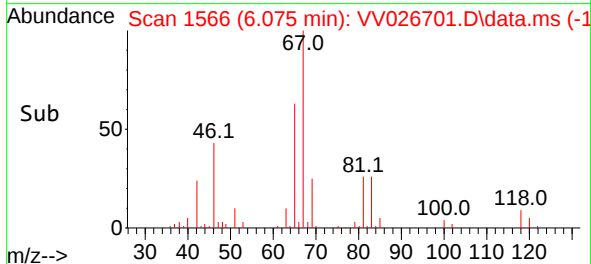
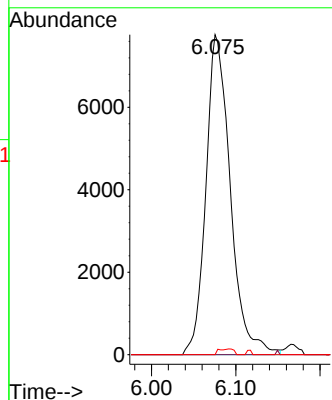
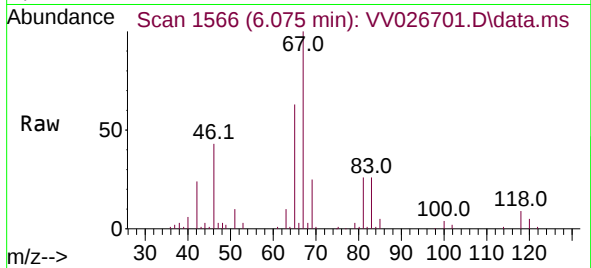




#35  
Methylcyclohexane  
Concen: 0.809 ug/L  
RT: 6.075 min Scan# 11  
Delta R.T. -0.058 min  
Lab File: VV026701.D  
Acq: 08 Jul 2022 16:47

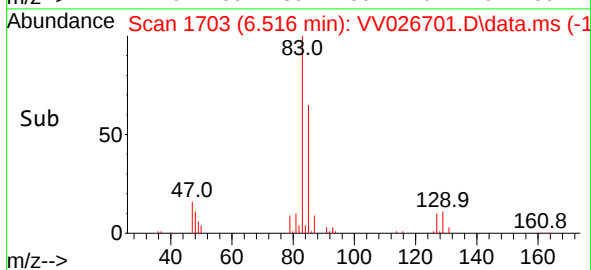
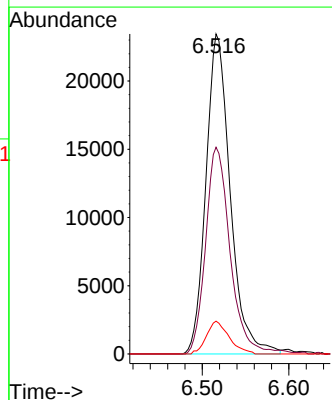
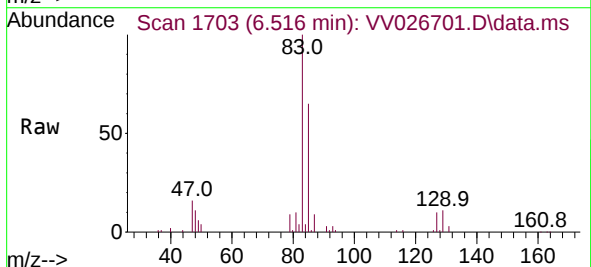
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AJ0

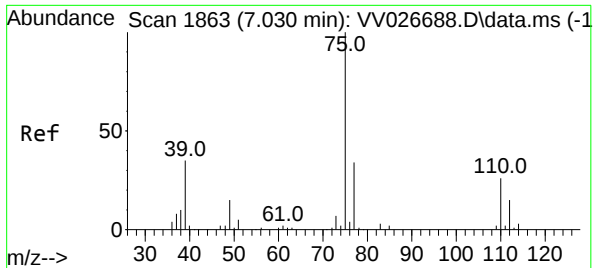
Tgt Ion: 83 Resp: 15621  
Ion Ratio Lower Upper  
83 100  
55 0.0 57.0 85.4#  
98 1.1 39.8 59.8#



#38  
Bromodichloromethane  
Concen: 3.237 ug/L  
RT: 6.516 min Scan# 1703  
Delta R.T. 0.003 min  
Lab File: VV026701.D  
Acq: 08 Jul 2022 16:47

Tgt Ion: 83 Resp: 45714  
Ion Ratio Lower Upper  
83 100  
85 64.6 44.0 81.8  
127 10.2 6.6 10.0#





#39

cis-1,3-Dichloropropene

Concen: 0.072 ug/L

RT: 6.992 min Scan# 1851

Delta R.T. -0.039 min

Lab File: VV026701.D

Acq: 08 Jul 2022 16:47

Instrument :

MSVOA\_V

ClientSampleId :

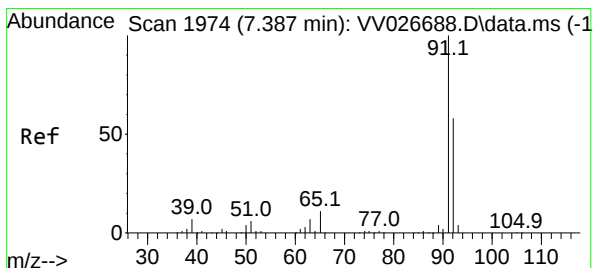
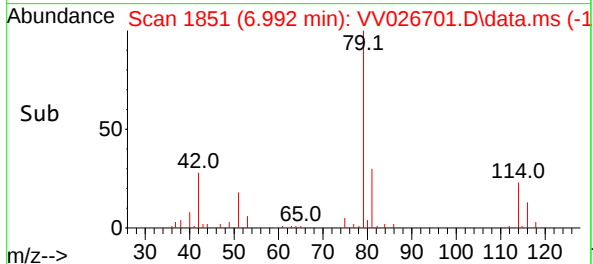
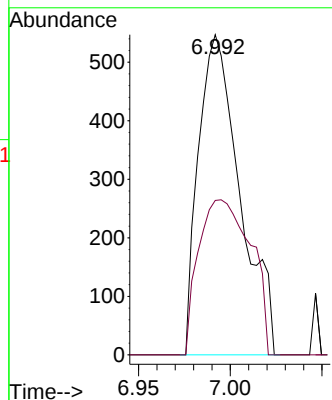
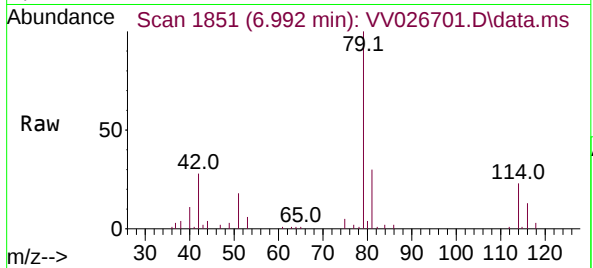
C0AJ0

Tgt Ion: 75 Resp: 860

Ion Ratio Lower Upper

75 100

77 48.3 22.8 42.4#



#42

Toluene

Concen: 3.580 ug/L

RT: 7.391 min Scan# 1975

Delta R.T. 0.003 min

Lab File: VV026701.D

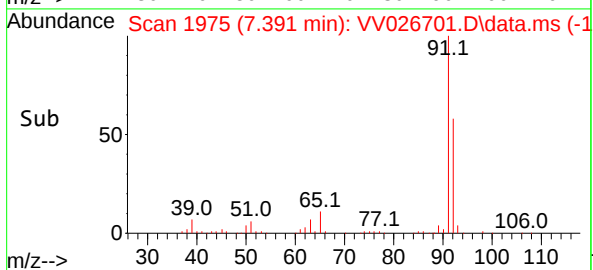
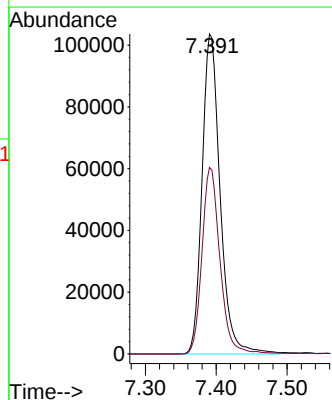
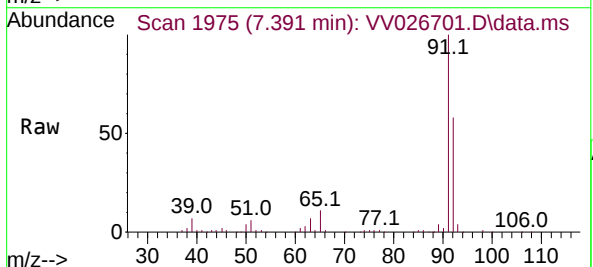
Acq: 08 Jul 2022 16:47

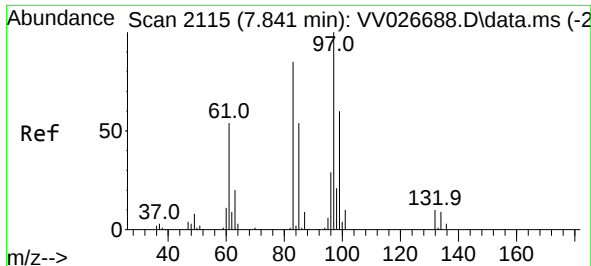
Tgt Ion: 91 Resp: 183447

Ion Ratio Lower Upper

91 100

92 58.3 40.3 74.9





#45

1,1,2-Trichloroethane

Concen: 0.122 ug/L

RT: 7.976 min Scan# 2115

Delta R.T. 0.135 min

Lab File: VV026701.D

Acq: 08 Jul 2022 16:47

Instrument :

MSVOA\_V

ClientSampleId :

C0AJ0

Tgt Ion: 97 Resp: 918

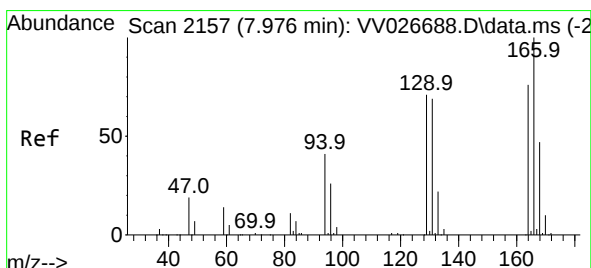
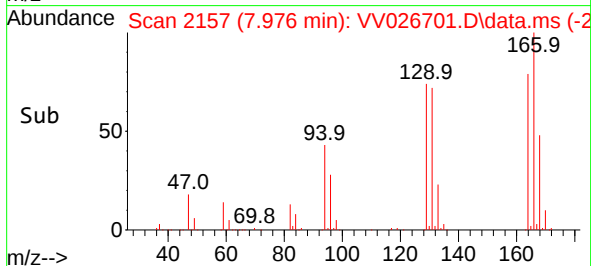
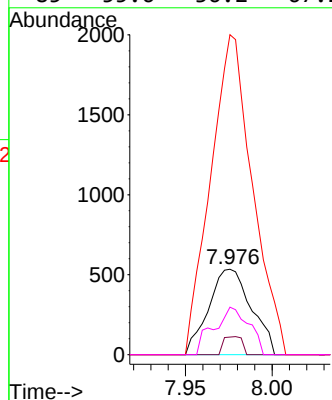
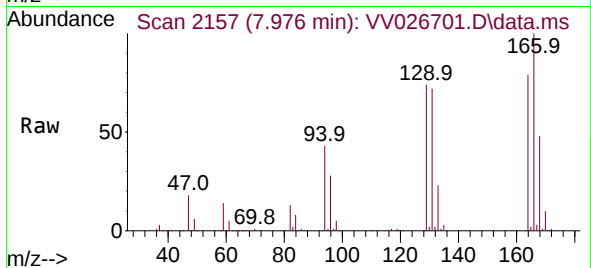
Ion Ratio Lower Upper

97 100

99 20.6 43.4 80.6#

83 374.7 58.0 107.8#

85 55.6 36.2 67.2



#47

Tetrachloroethene

Concen: 12.609 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. 0.000 min

Lab File: VV026701.D

Acq: 08 Jul 2022 16:47

Tgt Ion:164 Resp: 131009

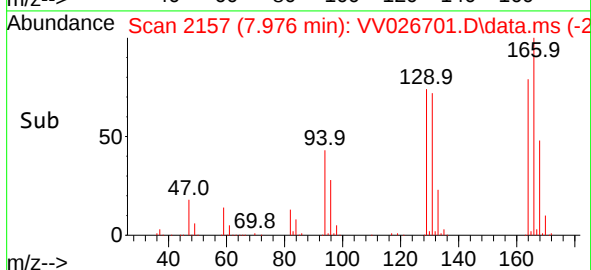
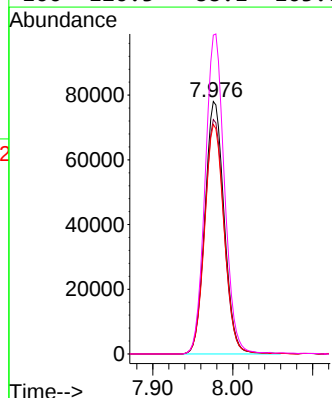
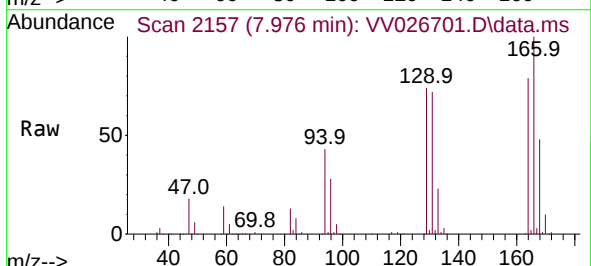
Ion Ratio Lower Upper

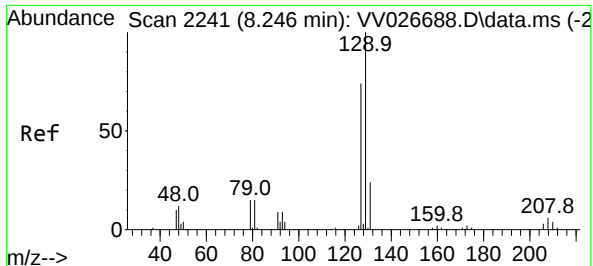
164 100

129 92.8 66.4 123.2

131 90.9 64.4 119.6

166 126.3 88.1 163.7





#49

Dibromochloromethane

Concen: 7.878 ug/L

RT: 8.249 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV026701.D

Acq: 08 Jul 2022 16:47

Instrument :

MSVOA\_V

ClientSampleId :

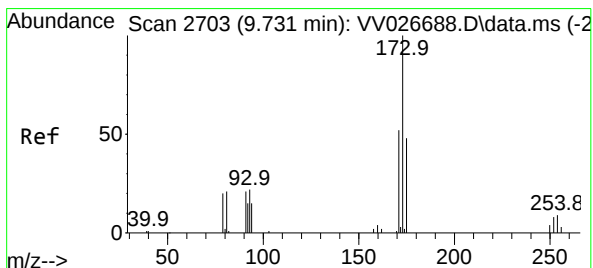
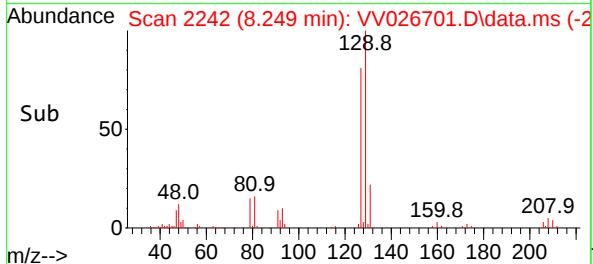
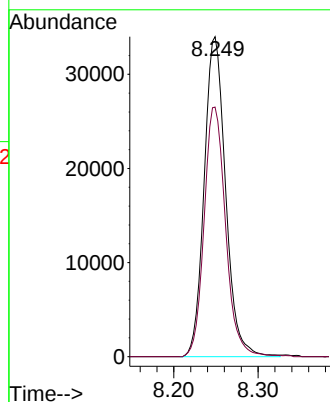
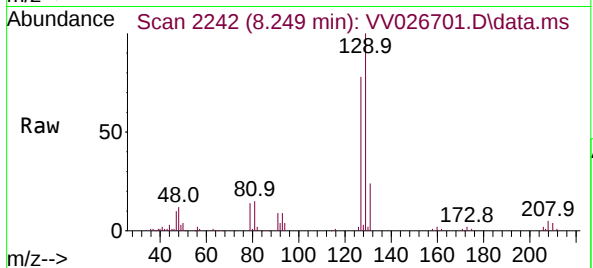
C0AJ0

Tgt Ion:129 Resp: 60189

Ion Ratio Lower Upper

129 100

127 78.0 54.2 100.6



#59

Bromoform

Concen: 9.825 ug/L

RT: 9.731 min Scan# 2703

Delta R.T. 0.000 min

Lab File: VV026701.D

Acq: 08 Jul 2022 16:47

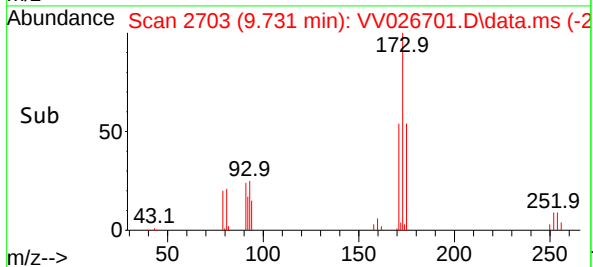
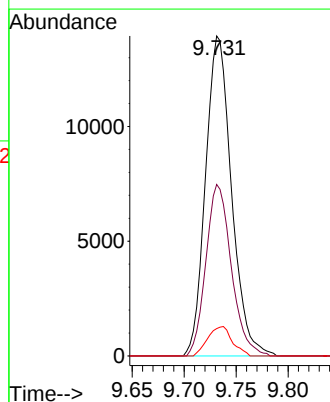
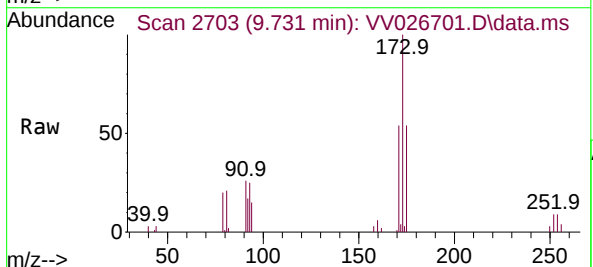
Tgt Ion:173 Resp: 24249

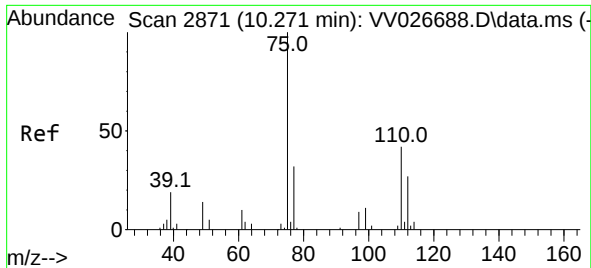
Ion Ratio Lower Upper

173 100

175 52.5 37.9 56.9

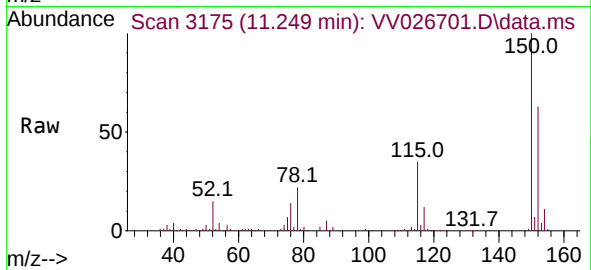
254 8.7 6.3 9.5





#61  
 1,2,3-Trichloropropane  
 Concen: 1.697 ug/L  
 RT: 11.249 min Scan# 31  
 Delta R.T. 0.977 min  
 Lab File: VV026701.D  
 Acq: 08 Jul 2022 16:47

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AJ0



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 7358  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 29.0  | 25.8  | 38.6  |
| 110      | 1.2   | 32.5  | 48.7# |

