

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV090923\  
 Data File : VV031992.D  
 Acq On : 09 Sep 2023 11:50  
 Operator : SY/MD  
 Sample : 04267-14  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Sep 09 21:53:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR082323WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Sat Sep 09 21:51:31 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.539  | 114   | 120226   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.789  | 117   | 119059   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191 | 152   | 63640    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278  | 65    | 22896    | 5.639    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 112.800% |
| 7) Chloroethane-d5            | 1.532  | 69    | 27908    | 6.000    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 120.000% |
| 11) 1,1-Dichloroethene-d2     | 2.060  | 65    | 13275    | 5.555    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 111.000% |
| 20) 2-Butanone-d5             | 3.796  | 46    | 105629   | 53.738   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 107.480% |
| 24) Chloroform-d              | 4.256  | 84    | 62708    | 4.563    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 91.200%  |
| 26) 1,2-Dichloroethane-d4     | 4.947  | 65    | 33449    | 4.723    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 94.400%  |
| 32) Benzene-d6                | 4.963  | 84    | 129952   | 4.797    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 96.000%  |
| 36) 1,2-Dichloropropane-d6    | 5.992  | 67    | 45352    | 4.747    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 95.000%  |
| 41) Toluene-d8                | 7.249  | 98    | 114319   | 4.547    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 91.000%  |
| 43) trans-1,3-Dichloroprop... | 7.564  | 79    | 12503    | 3.589    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 71.800%  |
| 46) 2-Hexanone-d5             | 8.031  | 63    | 82394    | 44.360   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 88.720%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159 | 84    | 31190    | 4.551    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 91.000%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.564 | 152   | 41389    | 4.016    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 80.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.214  | 50    | 1624     | 0.221    | ug/L   | 98       |
| 5) Vinyl chloride             | 1.282  | 62    | 739      | 0.098    | ug/L # | 43       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.066  | 101   | 885      | 0.153    | ug/L # | 42       |
| 12) 1,1-Dichloroethene        | 2.069  | 96    | 47120    | 8.706    | ug/L   | 87       |
| 13) Acetone                   | 2.127  | 43    | 1747     | 1.508    | ug/L   | 69       |
| 16) Methylene chloride        | 2.449  | 84    | 4821     | 0.548    | ug/L   | 97       |
| 17) Methyl tert-butyl Ether   | 2.709  | 73    | 7189     | 0.428    | ug/L # | 86       |
| 18) trans-1,2-Dichloroethene  | 2.700  | 96    | 3097     | 0.505    | ug/L   | 87       |
| 19) 1,1-Dichloroethane        | 3.114  | 63    | 25731    | 2.036    | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 3.812  | 96    | 1153885  | 163.278  | ug/L   | 98       |
| 25) Chloroform                | 4.281  | 83    | 8452     | 0.656    | ug/L   | 99       |
| 27) 1,2-Dichloroethane        | 5.060  | 62    | 5899     | 0.766    | ug/L   | 96       |
| 29) 1,1,1-Trichloroethane     | 4.516  | 97    | 3787     | 0.329    | ug/L   | 94       |
| 34) Trichloroethene           | 5.834  | 95    | 133886   | 16.703   | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 5.989  | 63    | 4717     | 0.624    | ug/L # | 87       |
| 39) cis-1,3-Dichloropropene   | 6.924  | 75    | 937      | 0.082    | ug/L # | 65       |
| 42) Toluene                   | 7.333  | 91    | 2646     | 0.087    | ug/L   | 98       |
| 49) Dibromochloromethane      | 7.915  | 129   | 398      | 0.071    | ug/L # | 11       |
| 51) Chlorobenzene             | 8.825  | 112   | 4343     | 0.225    | ug/L   | 97       |

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MSVOA\_V  
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Quant Time: Sep 09 21:53:16 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR082323WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Sat Sep 09 21:51:31 2023  
Response via : Initial Calibration

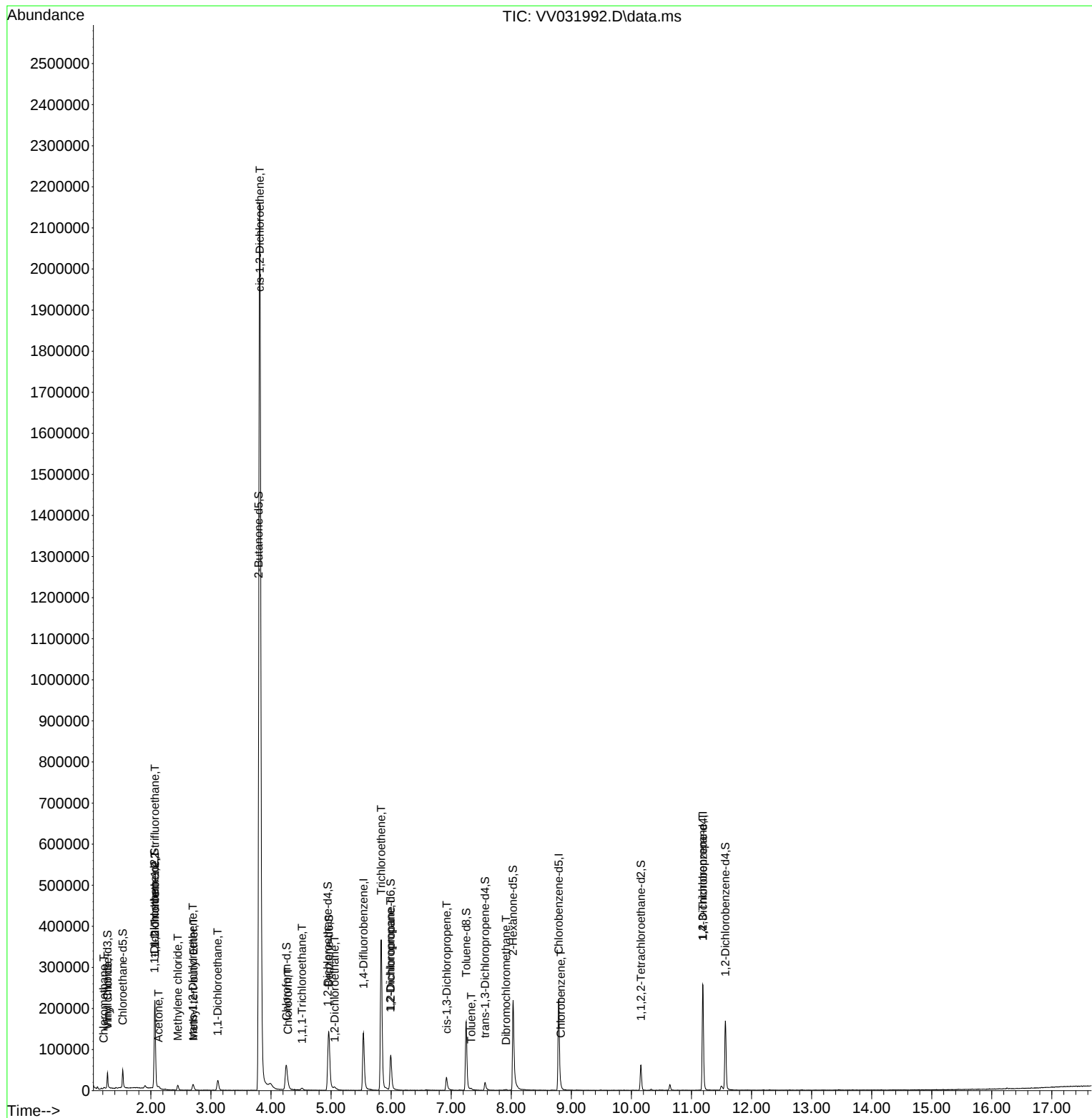
| Compound                   | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|--------|------|----------|-------|--------|----------|
| 61) 1,2,3-Trichloropropane | 11.188 | 75   | 8733     | 1.863 | ug/L # | 70       |

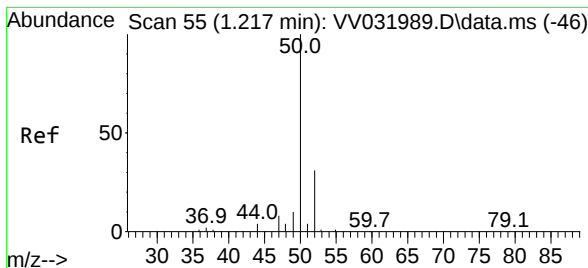
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.221 ug/L

RT: 1.214 min Scan# 54

Delta R.T. -0.003 min

Lab File: VV031992.D

Acq: 09 Sep 2023 11:50

Instrument :

MSVOA\_V

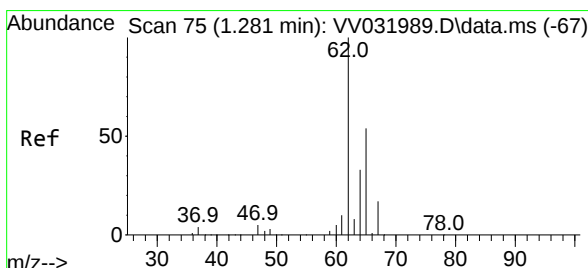
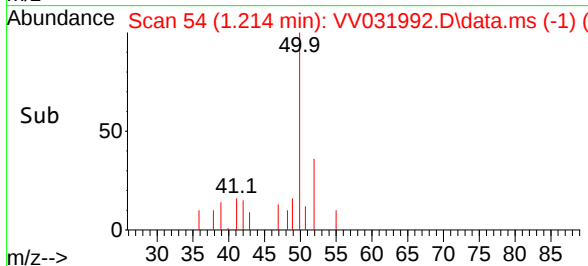
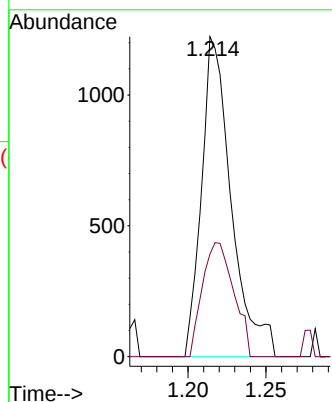
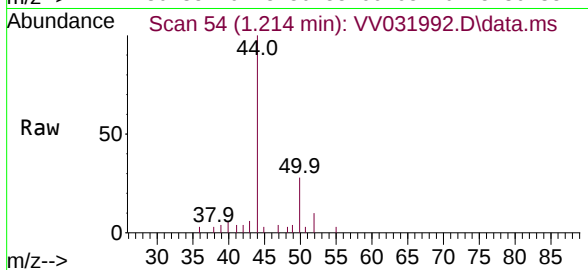
ClientSampleId :

Tgt Ion: 50 Resp: 1624

Ion Ratio Lower Upper

50 100

52 32.1 23.3 43.3



#5

Vinyl chloride

Concen: 0.098 ug/L

RT: 1.282 min Scan# 75

Delta R.T. 0.000 min

Lab File: VV031992.D

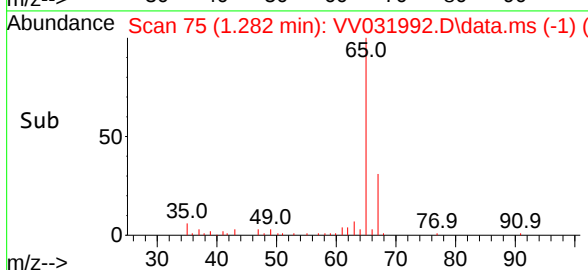
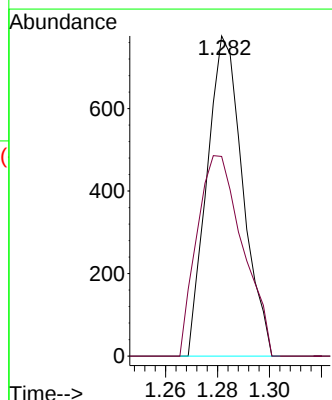
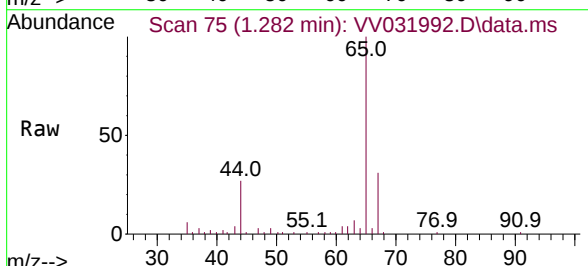
Acq: 09 Sep 2023 11:50

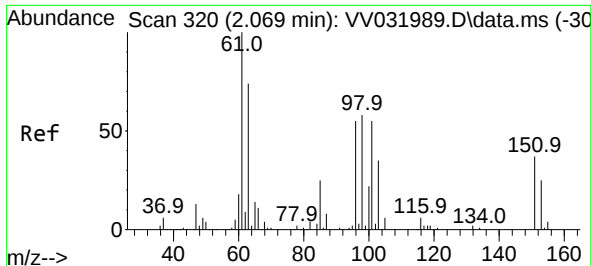
Tgt Ion: 62 Resp: 739

Ion Ratio Lower Upper

62 100

64 62.4 21.7 40.3#





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.153 ug/L

RT: 2.066 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV031992.D

Acq: 09 Sep 2023 11:50

Instrument :

MSVOA\_V

ClientSampleId :

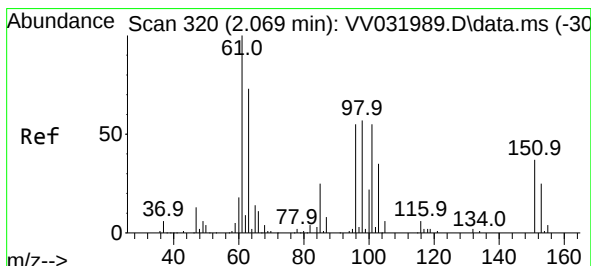
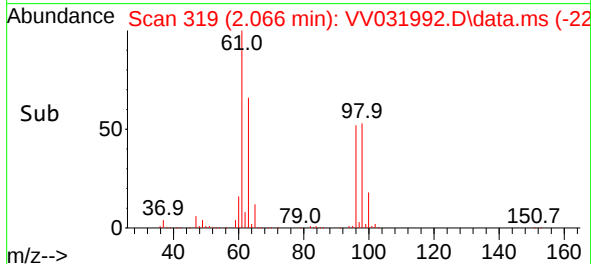
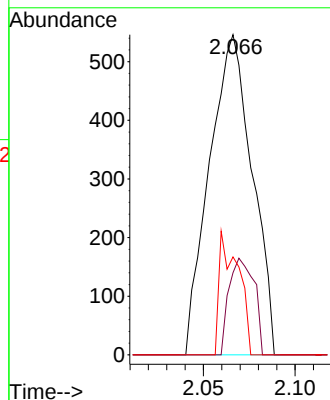
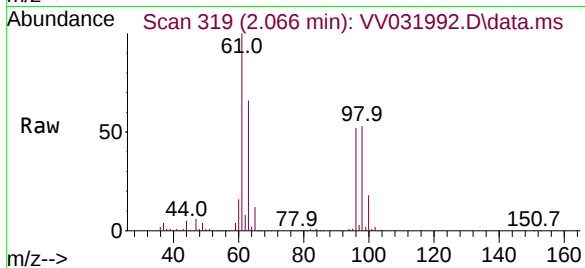
Tgt Ion:101 Resp: 885

Ion Ratio Lower Upper

101 100

85 17.7 38.3 57.5#

151 17.2 58.5 87.7#



#12

1,1-Dichloroethene

Concen: 8.706 ug/L

RT: 2.069 min Scan# 320

Delta R.T. 0.000 min

Lab File: VV031992.D

Acq: 09 Sep 2023 11:50

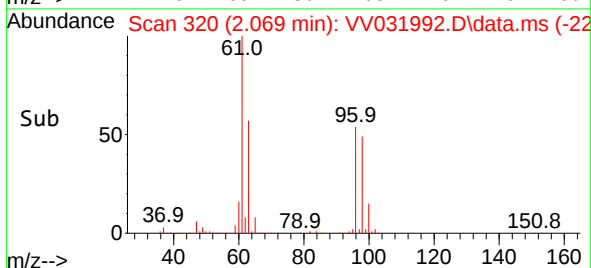
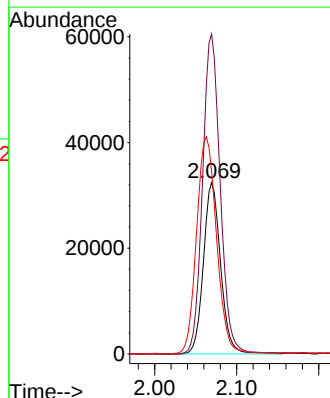
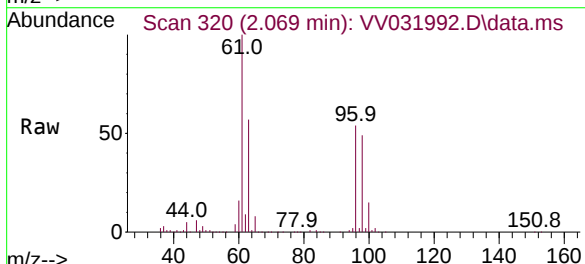
Tgt Ion: 96 Resp: 47120

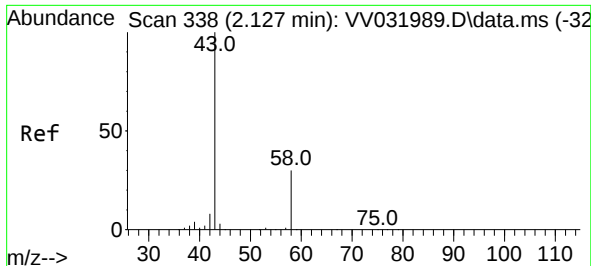
Ion Ratio Lower Upper

96 100

61 186.7 129.0 239.6

63 106.5 99.0 183.8





#13

Acetone

Concen: 1.508 ug/L

RT: 2.127 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV031992.D

Acq: 09 Sep 2023 11:50

Instrument :

MSVOA\_V

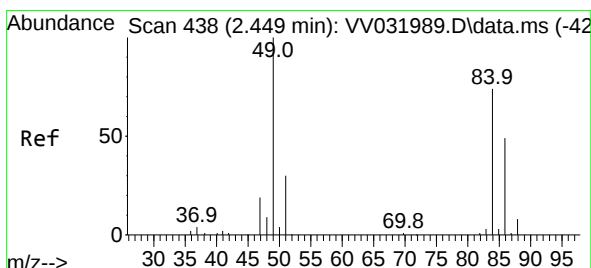
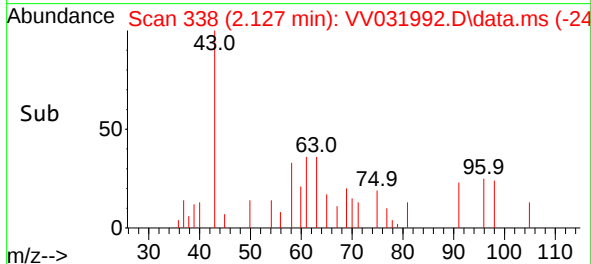
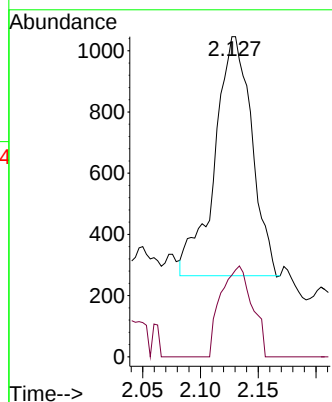
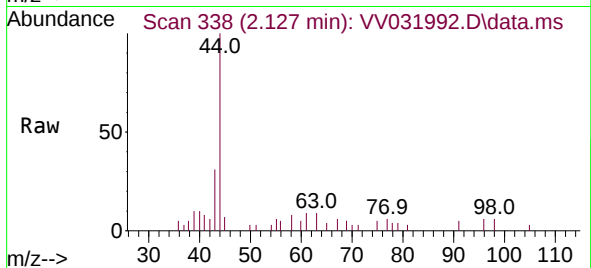
ClientSampleId :

Tgt Ion: 43 Resp: 1747

Ion Ratio Lower Upper

43 100

58 32.2 0.0 37.0



#16

Methylene chloride

Concen: 0.548 ug/L

RT: 2.449 min Scan# 438

Delta R.T. 0.000 min

Lab File: VV031992.D

Acq: 09 Sep 2023 11:50

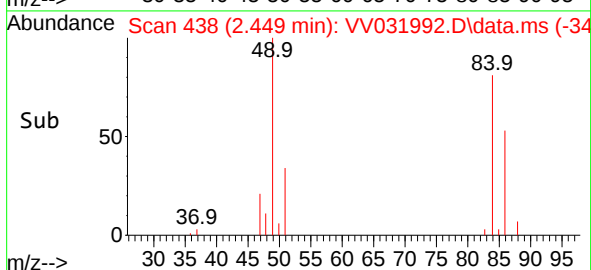
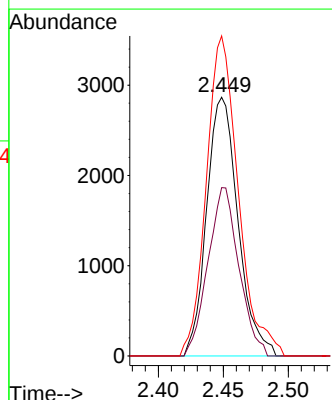
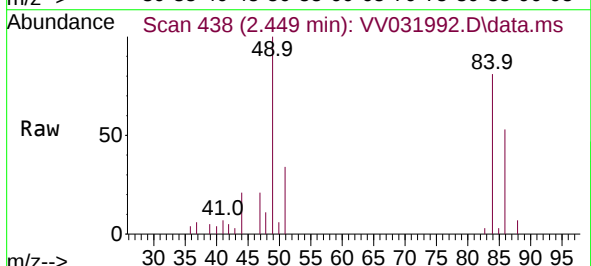
Tgt Ion: 84 Resp: 4821

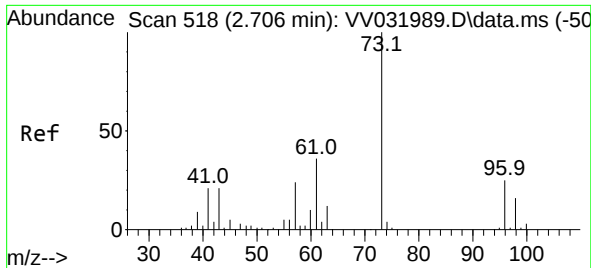
Ion Ratio Lower Upper

84 100

86 65.1 42.6 79.2

49 123.7 88.5 164.4





#17

Methyl tert-butyl Ether

Concen: 0.428 ug/L

RT: 2.709 min Scan# 518

Delta R.T. 0.003 min

Lab File: VV031992.D

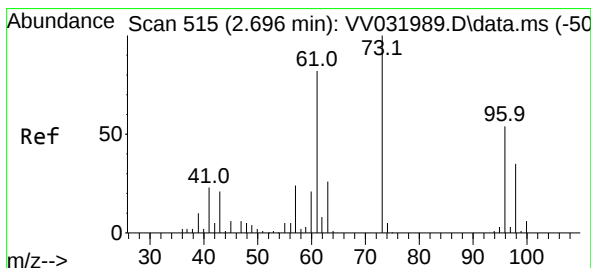
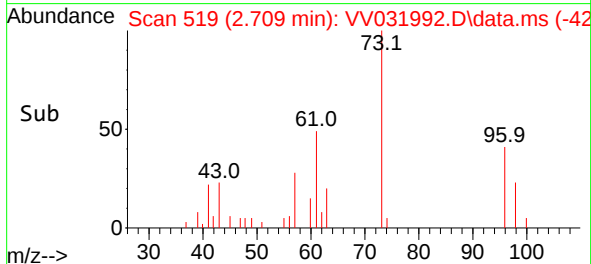
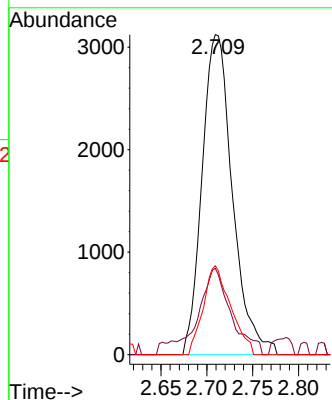
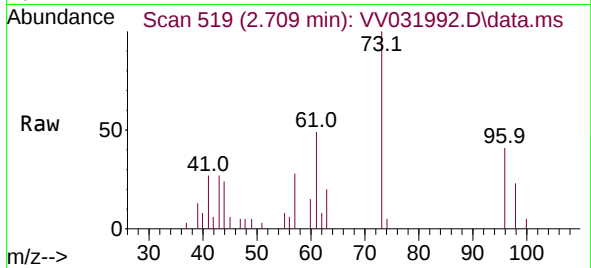
Acq: 09 Sep 2023 11:50

Instrument :

MSVOA\_V

ClientSampleId :

|             |             |
|-------------|-------------|
| Tgt Ion: 73 | Resp: 7189  |
| Ion Ratio   | Lower Upper |
| 73 100      |             |
| 43 30.3     | 15.6 23.4#  |
| 57 25.1     | 17.8 26.8   |



#18

trans-1,2-Dichloroethene

Concen: 0.505 ug/L

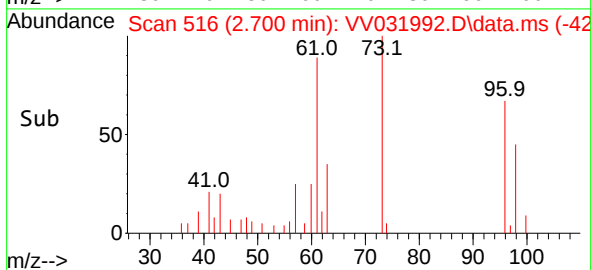
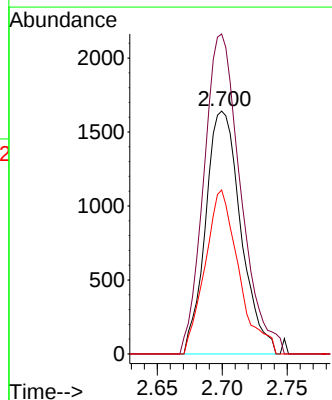
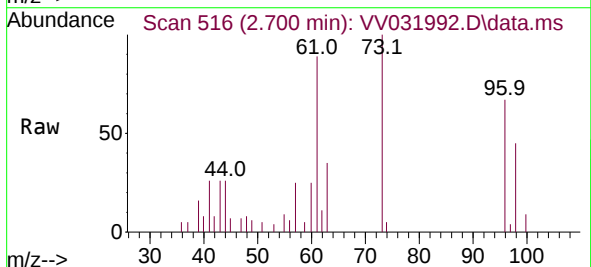
RT: 2.700 min Scan# 516

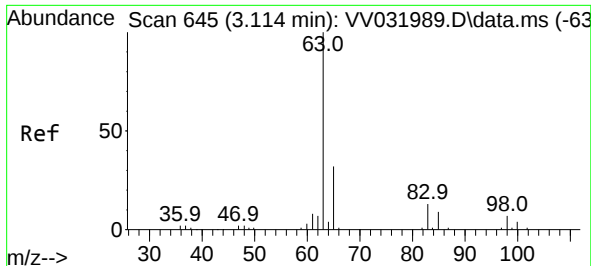
Delta R.T. 0.003 min

Lab File: VV031992.D

Acq: 09 Sep 2023 11:50

|             |             |
|-------------|-------------|
| Tgt Ion: 96 | Resp: 3097  |
| Ion Ratio   | Lower Upper |
| 96 100      |             |
| 61 131.7    | 106.8 198.4 |
| 98 67.5     | 44.9 83.3   |





#19

1,1-Dichloroethane

Concen: 2.036 ug/L

RT: 3.114 min Scan# 64

Delta R.T. 0.000 min

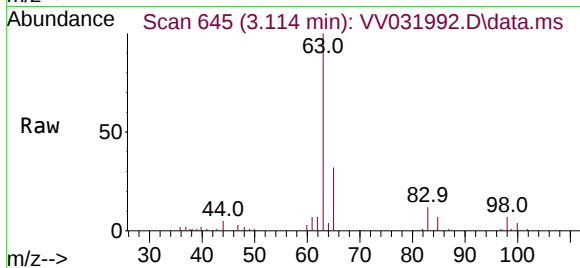
Lab File: VV031992.D

Acq: 09 Sep 2023 11:50

Instrument :

MSVOA\_V

ClientSampleId :



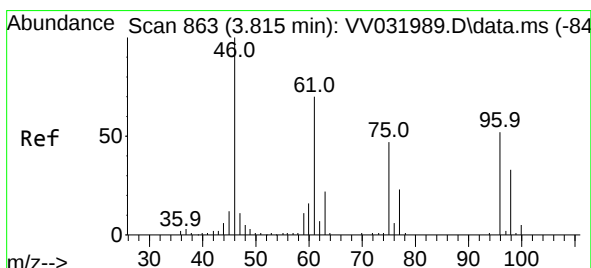
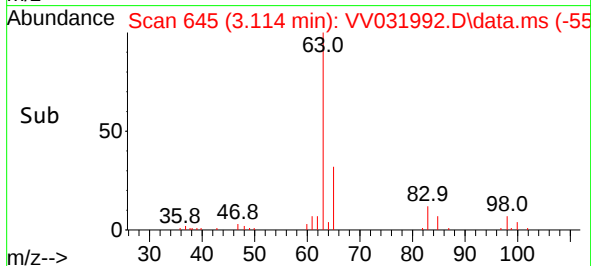
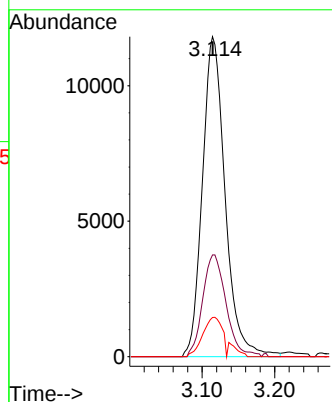
Tgt Ion: 63 Resp: 25731

Ion Ratio Lower Upper

63 100

65 31.8 21.9 40.7

83 12.3 9.2 17.2



#22

cis-1,2-Dichloroethene

Concen: 163.278 ug/L

RT: 3.812 min Scan# 862

Delta R.T. -0.003 min

Lab File: VV031992.D

Acq: 09 Sep 2023 11:50

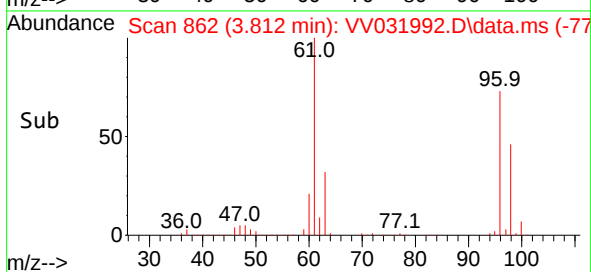
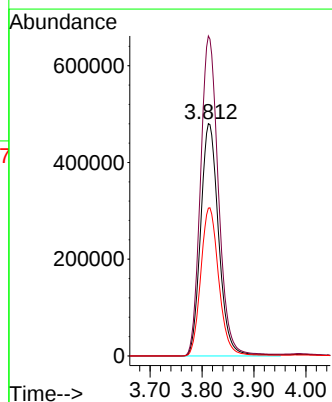
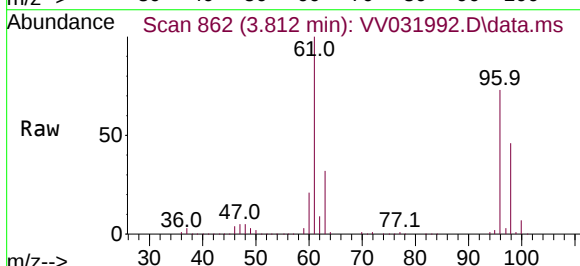
Tgt Ion: 96 Resp: 1153885

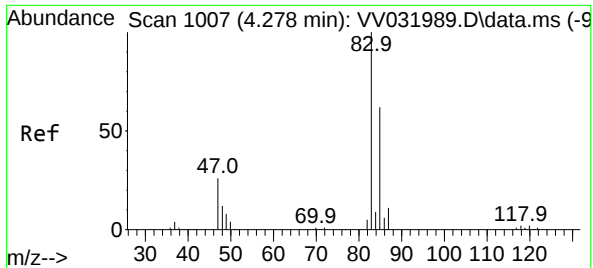
Ion Ratio Lower Upper

96 100

61 137.8 94.1 174.8

98 63.7 43.8 81.4

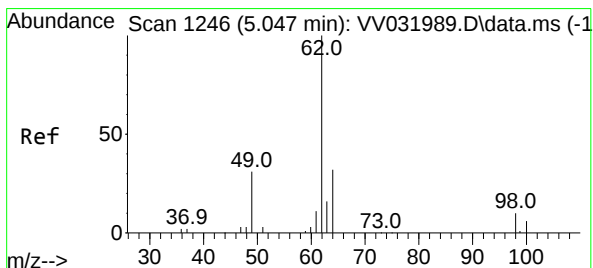
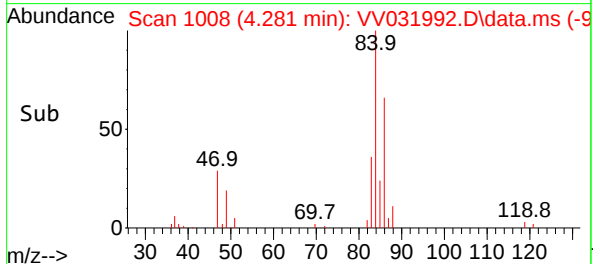
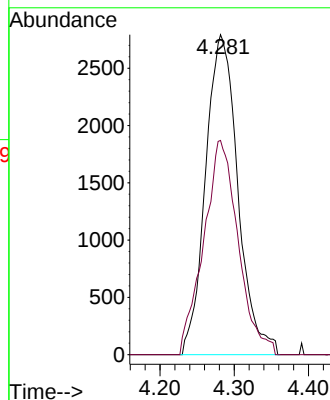
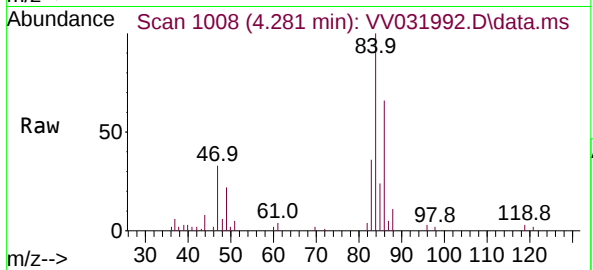




#25  
Chloroform  
Concen: 0.656 ug/L  
RT: 4.281 min Scan# 10  
Delta R.T. 0.003 min  
Lab File: VV031992.D  
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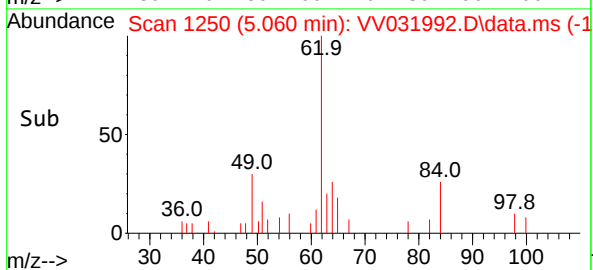
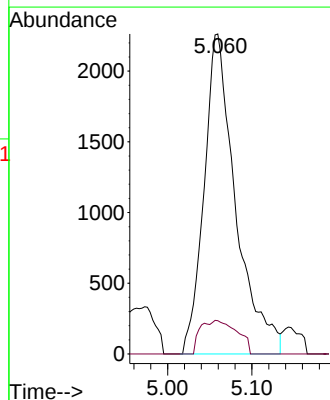
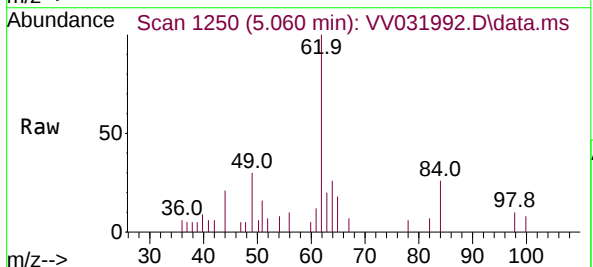
Instrument :  
MSVOA\_V  
ClientSampleId :

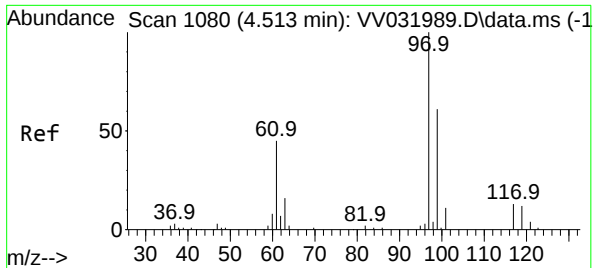
Tgt Ion: 83 Resp: 8452  
Ion Ratio Lower Upper  
83 100  
85 67.0 46.4 86.2



#27  
1,2-Dichloroethane  
Concen: 0.766 ug/L  
RT: 5.060 min Scan# 1250  
Delta R.T. 0.013 min  
Lab File: VV031992.D  
Acq: 09 Sep 2023 11:50

Tgt Ion: 62 Resp: 5899  
Ion Ratio Lower Upper  
62 100  
98 10.4 7.2 10.8

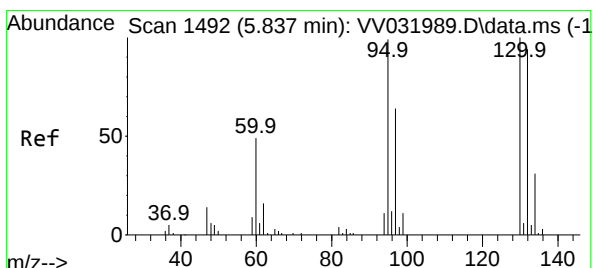
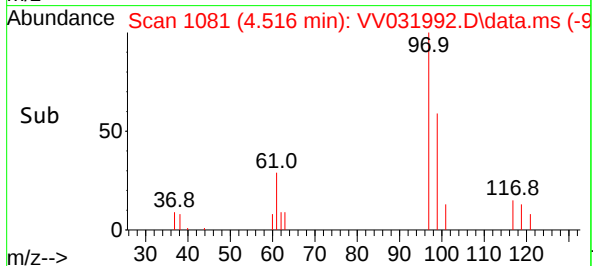
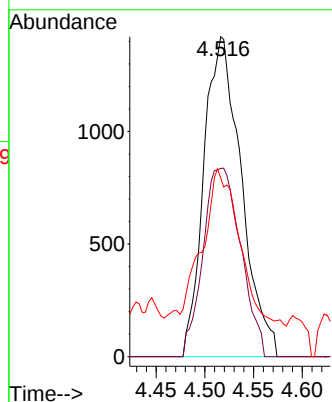
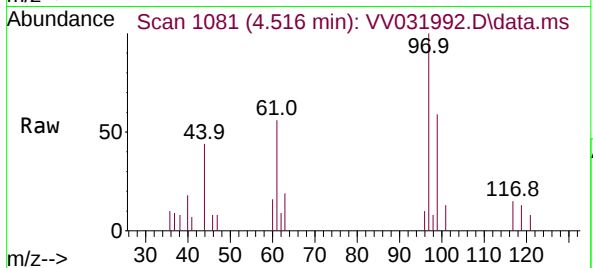




#29  
1,1,1-Trichloroethane  
Concen: 0.329 ug/L  
RT: 4.516 min Scan# 1080  
Delta R.T. 0.003 min  
Lab File: VV031992.D  
Acq: 09 Sep 2023 11:50

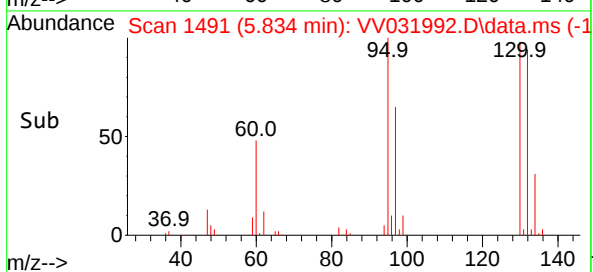
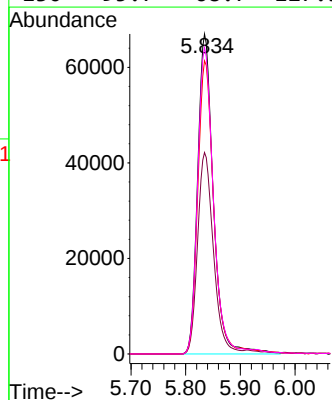
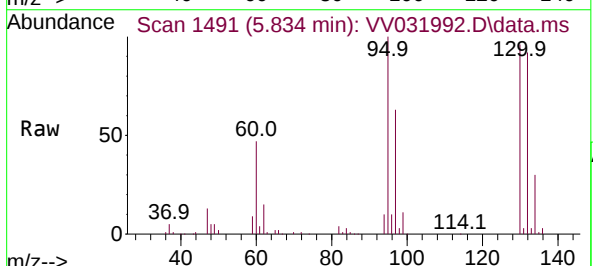
Instrument :  
MSVOA\_V  
ClientSampleId :

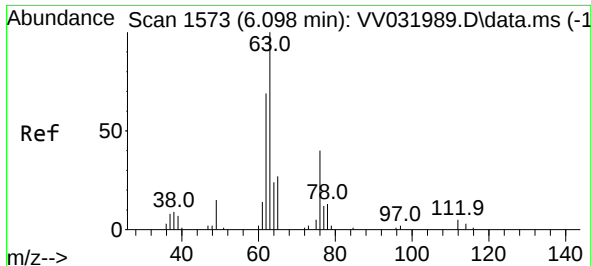
Tgt Ion: 97 Resp: 3787  
Ion Ratio Lower Upper  
97 100  
99 59.5 51.1 76.7  
61 49.5 35.5 53.3



#34  
Trichloroethene  
Concen: 16.703 ug/L  
RT: 5.834 min Scan# 1491  
Delta R.T. -0.003 min  
Lab File: VV031992.D  
Acq: 09 Sep 2023 11:50

Tgt Ion: 95 Resp: 133886  
Ion Ratio Lower Upper  
95 100  
97 62.9 47.7 88.7  
132 91.6 63.8 118.4  
130 95.7 68.7 127.5

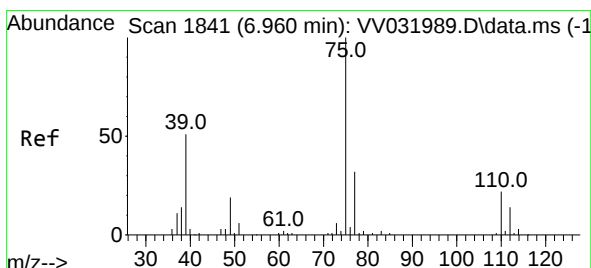
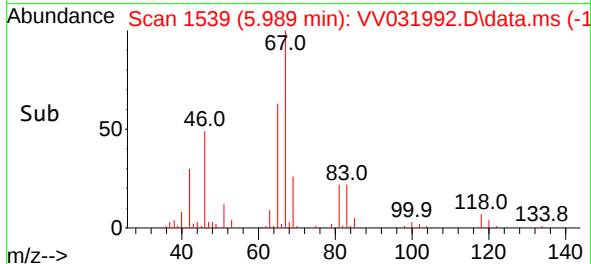
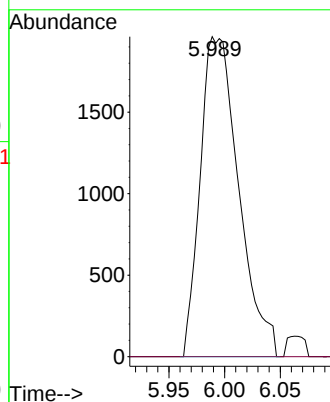
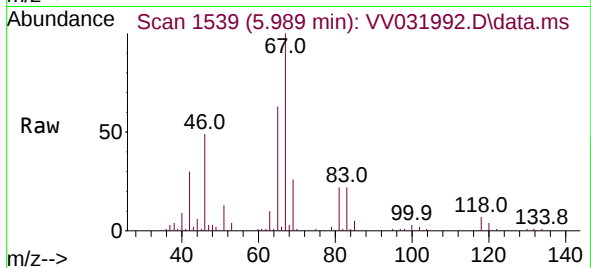




#37  
1,2-Dichloropropane  
Concen: 0.624 ug/L  
RT: 5.989 min Scan# 11  
Delta R.T. -0.109 min  
Lab File: VV031992.D  
Acq: 09 Sep 2023 11:50

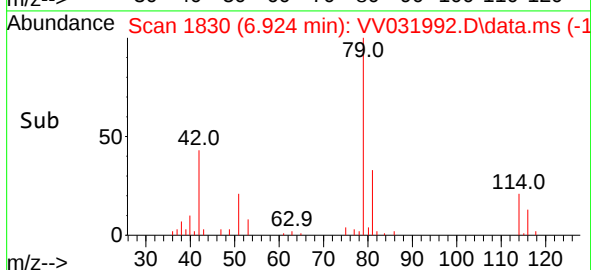
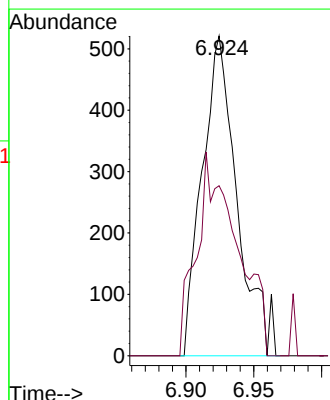
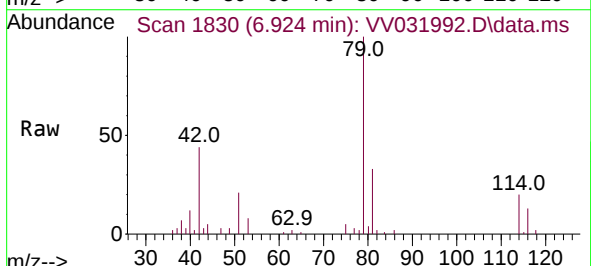
Instrument :  
MSVOA\_V  
ClientSampleId :

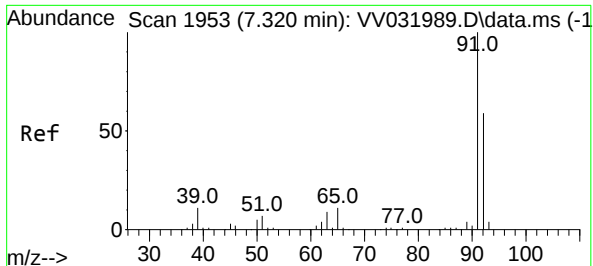
Tgt Ion: 63 Resp: 4717  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.4 5.2#



#39  
cis-1,3-Dichloropropene  
Concen: 0.082 ug/L  
RT: 6.924 min Scan# 1830  
Delta R.T. -0.035 min  
Lab File: VV031992.D  
Acq: 09 Sep 2023 11:50

Tgt Ion: 75 Resp: 937  
Ion Ratio Lower Upper  
75 100  
77 53.2 23.2 43.2#





#42

Toluene

Concen: 0.087 ug/L

RT: 7.333 min Scan# 1953

Delta R.T. 0.013 min

Lab File: VV031992.D

Acq: 09 Sep 2023 11:50

Instrument :

MSVOA\_V

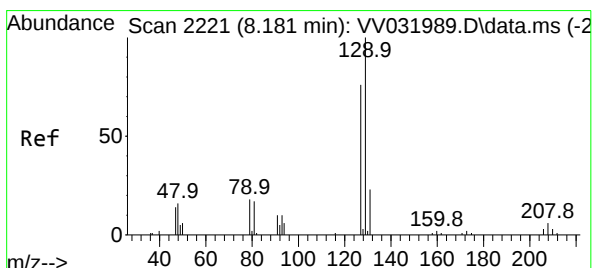
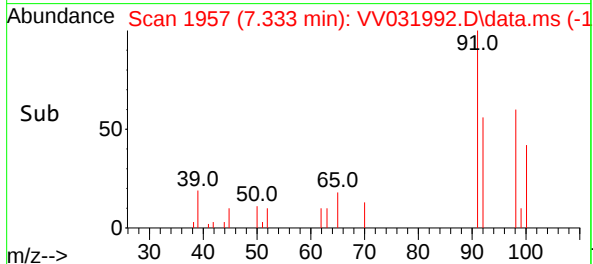
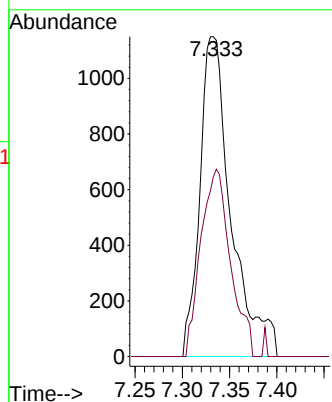
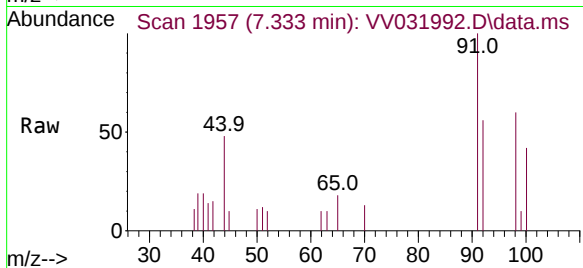
ClientSampleId :

Tgt Ion: 91 Resp: 2646

Ion Ratio Lower Upper

91 100

92 56.2 40.5 75.1



#49

Dibromochloromethane

Concen: 0.071 ug/L

RT: 7.915 min Scan# 2138

Delta R.T. -0.267 min

Lab File: VV031992.D

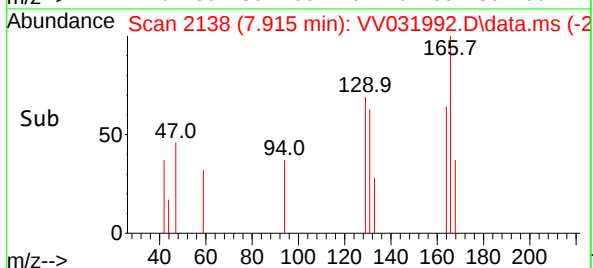
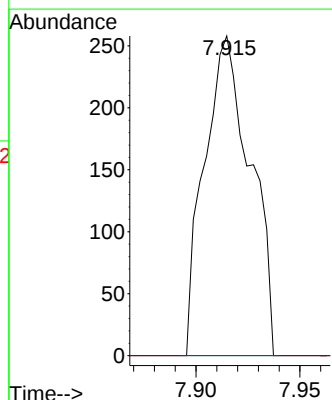
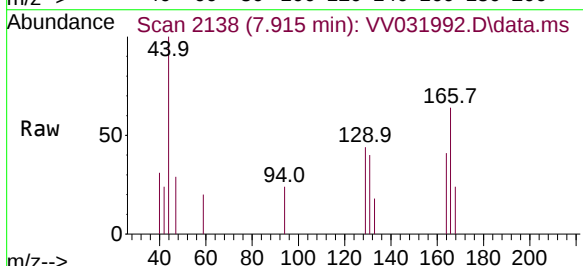
Acq: 09 Sep 2023 11:50

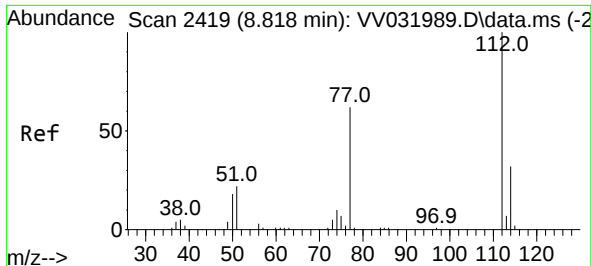
Tgt Ion: 129 Resp: 398

Ion Ratio Lower Upper

129 100

127 0.0 53.7 99.7#

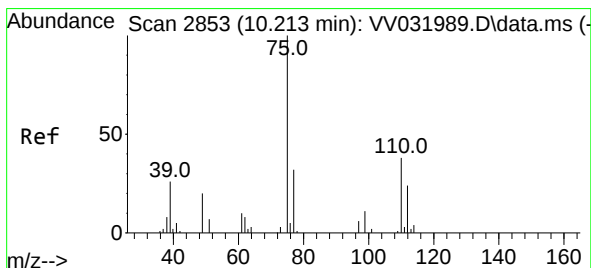
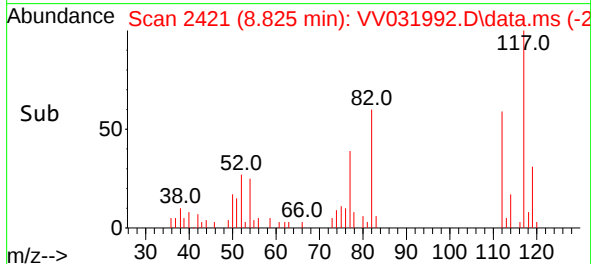
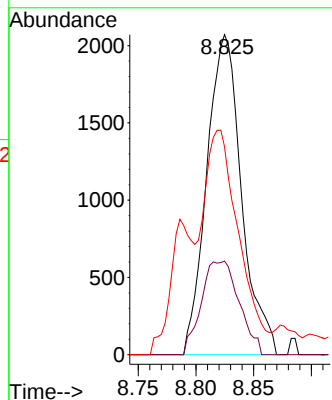
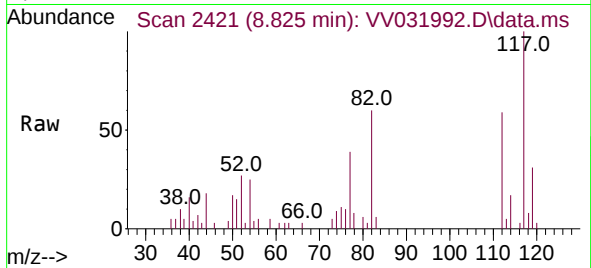




#51  
Chlorobenzene  
Concen: 0.225 ug/L  
RT: 8.825 min Scan# 2419  
Delta R.T. 0.007 min  
Lab File: VV031992.D  
Acq: 09 Sep 2023 11:50

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion:112 Resp: 4343  
Ion Ratio Lower Upper  
112 100  
114 29.3 22.3 41.3  
77 65.0 50.6 75.8



#61  
1,2,3-Trichloropropane  
Concen: 1.863 ug/L  
RT: 11.188 min Scan# 3156  
Delta R.T. 0.974 min  
Lab File: VV031992.D  
Acq: 09 Sep 2023 11:50

Tgt Ion: 75 Resp: 8733  
Ion Ratio Lower Upper  
75 100  
77 35.7 28.8 43.2  
110 2.3 30.2 45.2#

