

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW051923\  
 Data File : VW031149.D  
 Acq On : 20 May 2023 09:16  
 Operator : SY/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 60 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050348

Quant Time: May 22 00:16:56 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM051923WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat May 20 01:55:03 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.542   | 114   | 281314   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.792   | 117   | 245314   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191  | 152   | 154262   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.282   | 65    | 109669   | 45.616   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 91.240%  |
| 7) Chloroethane-d5            | 1.532   | 69    | 86239    | 46.563   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 93.120%  |
| 11) 1,1-Dichloroethene-d2     | 2.063   | 65    | 52874    | 46.899   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 93.800%  |
| 21) 2-Butanone-d5             | 3.793   | 46    | 132573   | 103.487  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 103.490% |
| 24) Chloroform-d              | 4.256   | 84    | 201052   | 47.271   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.540%  |
| 26) 1,2-Dichloroethane-d4     | 4.947   | 65    | 139055   | 48.383   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.760%  |
| 32) Benzene-d6                | 4.966   | 84    | 365589   | 54.974   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 109.940% |
| 36) 1,2-Dichloropropane-d6    | 5.995   | 67    | 106409   | 53.477   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 106.960% |
| 41) Toluene-d8                | 7.249   | 98    | 341926   | 55.089   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 110.180% |
| 43) trans-1,3-Dichloroprop... | 7.558   | 79    | 48815    | 48.898   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 97.800%  |
| 47) 2-Hexanone-d5             | 8.030   | 63    | 81180    | 104.637  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 104.640% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159  | 84    | 143818   | 48.189   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 96.380%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.567  | 152   | 140391   | 50.645   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 101.280% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.108   | 85    | 85054    | 46.832   | ug/L   | 99       |
| 3) Chloromethane              | 1.217   | 50    | 97716    | 49.146   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.285   | 62    | 86018    | 48.436   | ug/L   | 100      |
| 6) Bromomethane               | 1.484   | 94    | 44614    | 44.826   | ug/L   | 95       |
| 8) Chloroethane               | 1.548   | 64    | 53258    | 46.539   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.716   | 101   | 166281   | 47.604   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.072   | 101   | 86238    | 46.816   | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.072   | 96    | 73341    | 46.934   | ug/L   | 90       |
| 13) Acetone                   | 2.114   | 43    | 110541   | 66.373   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.246   | 76    | 135873   | 47.714   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.375   | 43    | 98368    | 51.969   | ug/L   | 98       |
| 16) Methylene chloride        | 2.452   | 84    | 85536    | 49.168   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 2.699   | 96    | 68879    | 47.674   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 2.709   | 73    | 296481   | 53.121   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.117   | 63    | 161899   | 49.171   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.822   | 96    | 89259    | 50.116   | ug/L   | 98       |
| 22) 2-Butanone                | 3.873   | 43    | 134944   | 84.494   | ug/L   | 99       |
| 23) Bromochloromethane        | 4.153   | 128   | 49445    | 50.519   | ug/L   | 98       |
| 25) Chloroform                | 4.281   | 83    | 182231   | 49.544   | ug/L   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW051923\  
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 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 60 Sample Multiplier: 1

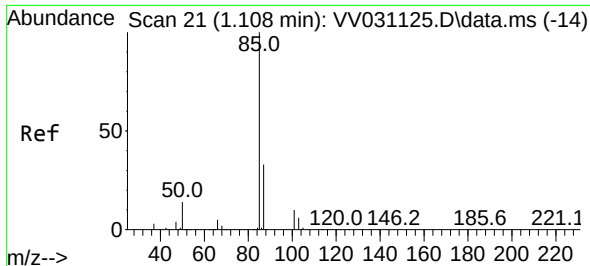
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050348

Quant Time: May 22 00:16:56 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM051923WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat May 20 01:55:03 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.047  | 62   | 159865   | 51.226  | ug/L  | 98       |
| 29) Cyclohexane               | 4.590  | 56   | 108377   | 56.143  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 4.519  | 97   | 165922   | 55.119  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.741  | 117  | 143208   | 54.608  | ug/L  | 99       |
| 33) Benzene                   | 5.018  | 78   | 331816   | 56.460  | ug/L  | 100      |
| 34) Trichloroethene           | 5.838  | 95   | 83844    | 53.243  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.059  | 83   | 111345   | 53.285  | ug/L  | 100      |
| 37) 1,2-Dichloropropane       | 6.098  | 63   | 90318    | 55.835  | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.439  | 83   | 137261   | 54.740  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 6.960  | 75   | 129319   | 51.845  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.166  | 43   | 296173   | 118.987 | ug/L  | 98       |
| 42) Toluene                   | 7.323  | 91   | 364065   | 57.256  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.587  | 75   | 128311   | 50.850  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.773  | 97   | 87292    | 49.454  | ug/L  | 98       |
| 46) Tetrachloroethene         | 7.911  | 164  | 67139    | 49.652  | ug/L  | 95       |
| 48) 2-Hexanone                | 8.082  | 43   | 210378   | 101.475 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.182  | 129  | 98215    | 49.316  | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 8.288  | 107  | 90171    | 51.381  | ug/L  | 99       |
| 51) Chlorobenzene             | 8.821  | 112  | 223869   | 49.466  | ug/L  | 98       |
| 52) Ethylbenzene              | 8.953  | 91   | 379624   | 52.146  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.079  | 106  | 148777   | 52.684  | ug/L  | 92       |
| 54) o-Xylene                  | 9.484  | 106  | 145619   | 52.271  | ug/L  | 97       |
| 55) Styrene                   | 9.500  | 104  | 254203   | 51.594  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.185 | 83   | 147548   | 50.875  | ug/L  | 97       |
| 59) Bromoform                 | 9.670  | 173  | 81877    | 45.774  | ug/L  | 98       |
| 60) Isopropylbenzene          | 9.873  | 105  | 394118   | 47.771  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.217 | 75   | 113226   | 47.711  | ug/L  | 97       |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 353894   | 52.185  | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene    | 10.857 | 105  | 353260   | 53.276  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.124 | 146  | 215229   | 50.914  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.217 | 146  | 218726   | 49.735  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 11.587 | 146  | 220878   | 51.495  | ug/L  | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.371 | 75   | 35895    | 49.274  | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene    | 12.590 | 180  | 154299   | 47.217  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.207 | 180  | 131692   | 47.353  | ug/L  | 98       |
| 71) Naphthalene               | 13.445 | 128  | 348058   | 48.182  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.689 | 180  | 136610   | 49.157  | ug/L  | 98       |

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

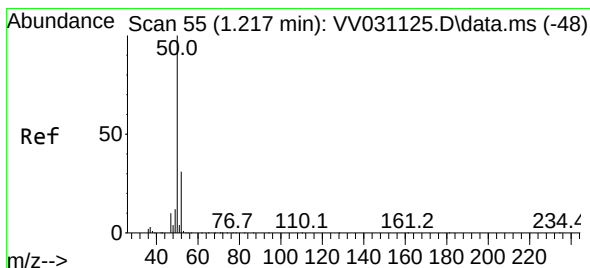
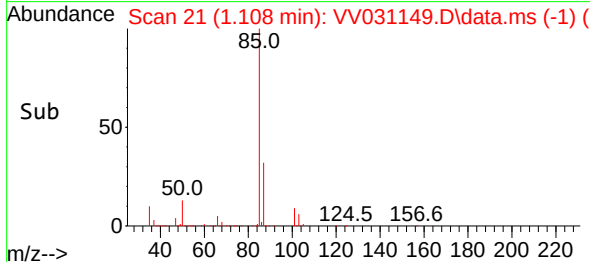
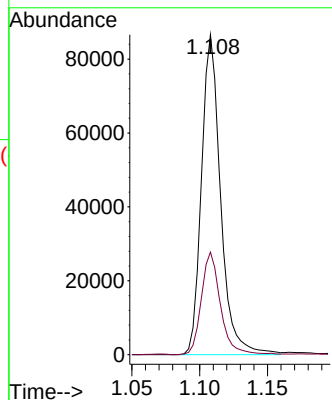
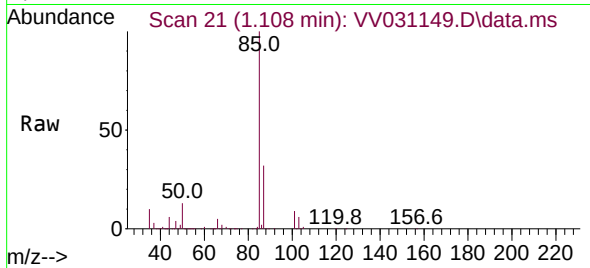




#2  
 Dichlorodifluoromethane  
 Concen: 46.832 ug/L  
 RT: 1.108 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VV031149.D  
 Acq: 20 May 2023 09:16

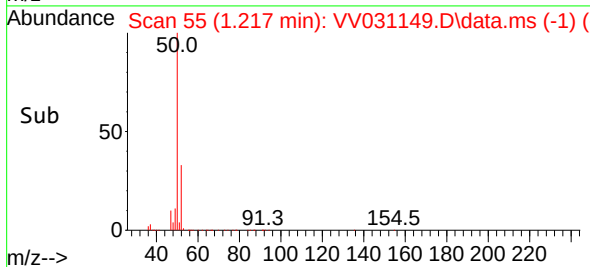
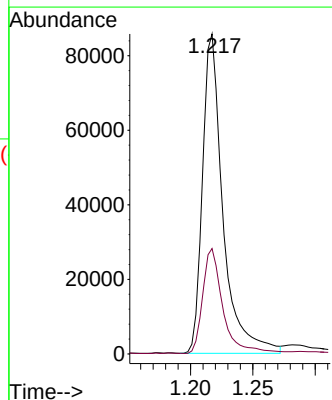
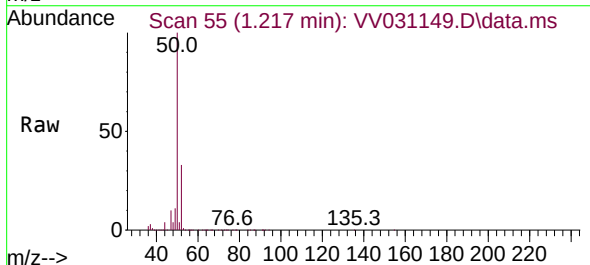
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050348

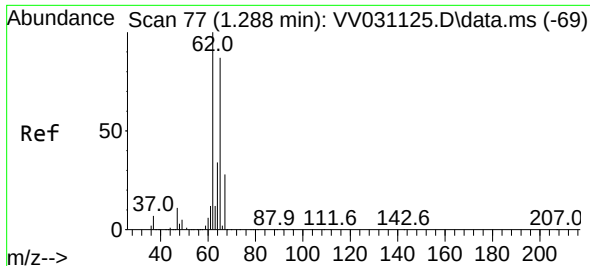
Tgt Ion: 85 Resp: 85054  
 Ion Ratio Lower Upper  
 85 100  
 87 31.9 25.2 37.8



#3  
 Chloromethane  
 Concen: 49.146 ug/L  
 RT: 1.217 min Scan# 55  
 Delta R.T. 0.000 min  
 Lab File: VV031149.D  
 Acq: 20 May 2023 09:16

Tgt Ion: 50 Resp: 97716  
 Ion Ratio Lower Upper  
 50 100  
 52 33.0 23.3 43.3

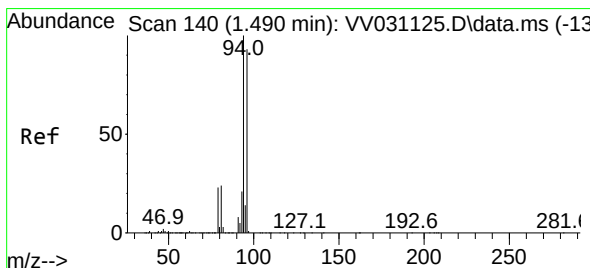
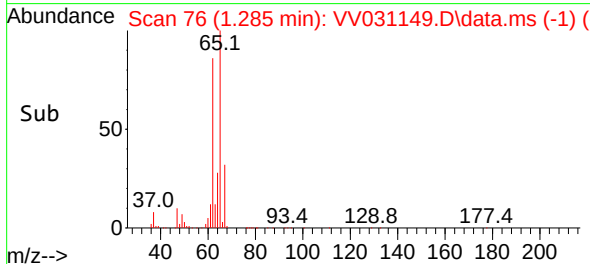
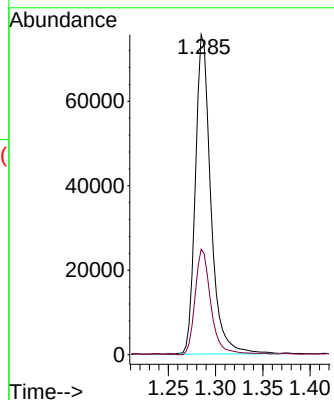
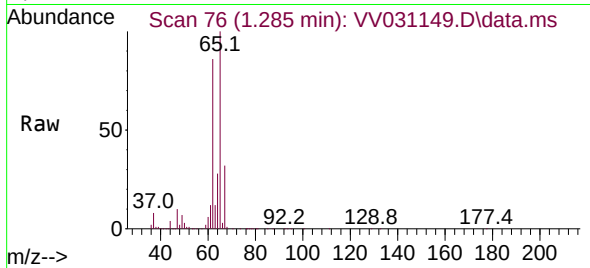




#5  
 Vinyl chloride  
 Concen: 48.436 ug/L  
 RT: 1.285 min Scan# 77  
 Delta R.T. -0.003 min  
 Lab File: VV031149.D  
 Acq: 20 May 2023 09:16

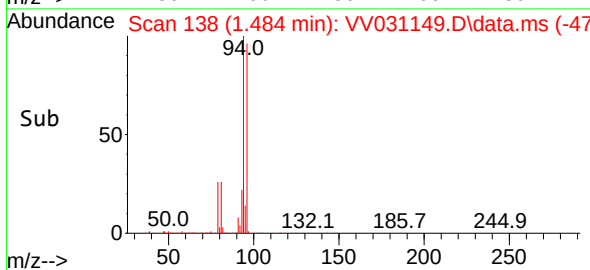
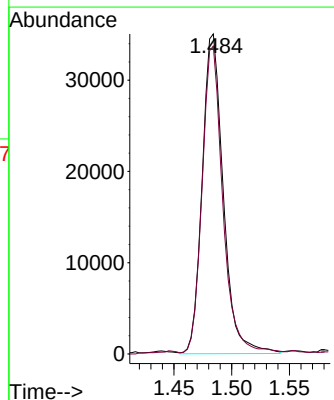
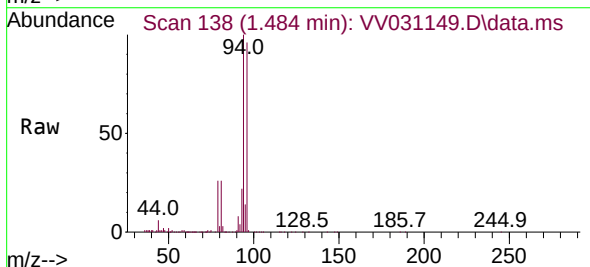
Instrument :  
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 ClientSampleId :  
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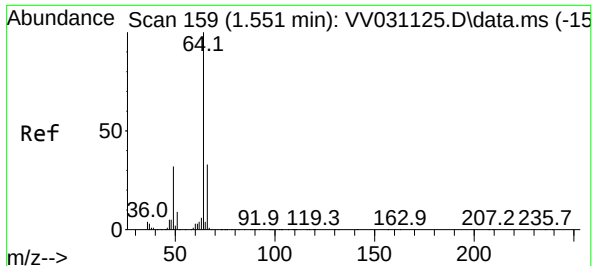
Tgt Ion: 62 Resp: 86018  
 Ion Ratio Lower Upper  
 62 100  
 64 33.0 23.1 42.9



#6  
 Bromomethane  
 Concen: 44.826 ug/L  
 RT: 1.484 min Scan# 138  
 Delta R.T. -0.006 min  
 Lab File: VV031149.D  
 Acq: 20 May 2023 09:16

Tgt Ion: 94 Resp: 44614  
 Ion Ratio Lower Upper  
 94 100  
 96 96.2 63.9 118.7

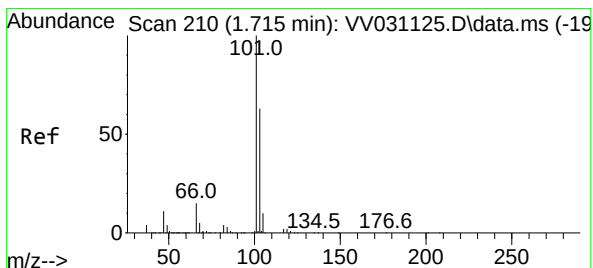
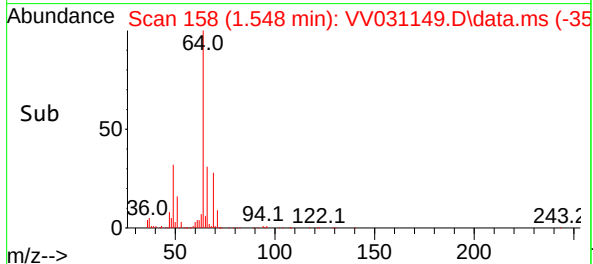
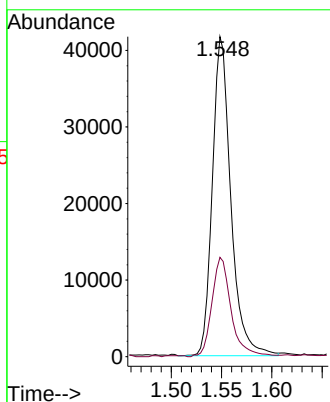
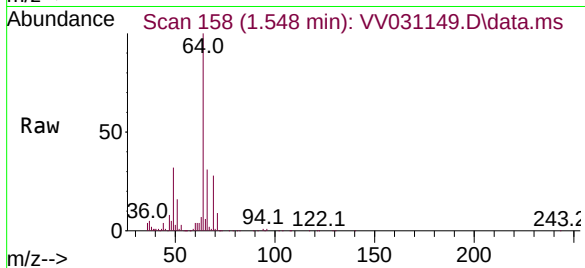




#8  
Chloroethane  
Concen: 46.539 ug/L  
RT: 1.548 min Scan# 158  
Delta R.T. -0.003 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

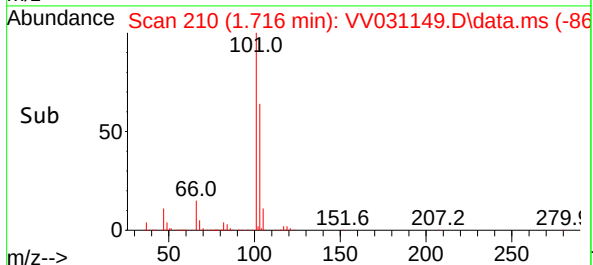
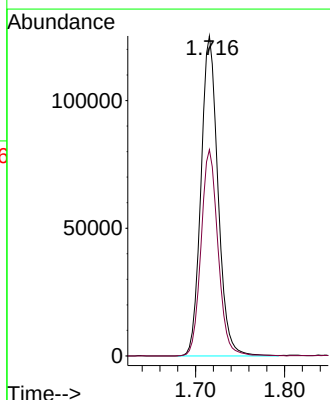
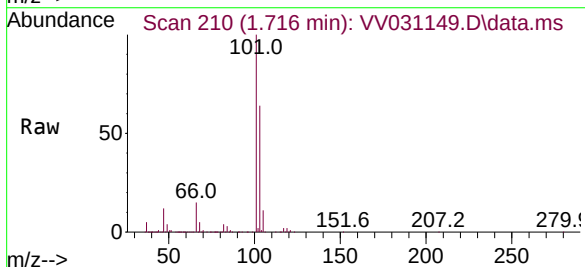
Instrument :  
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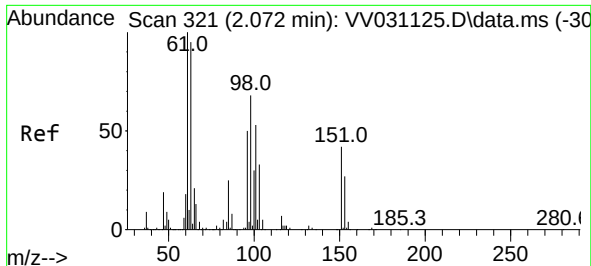
Tgt Ion: 64 Resp: 53258  
Ion Ratio Lower Upper  
64 100  
66 31.0 22.1 41.1



#9  
Trichlorofluoromethane  
Concen: 47.604 ug/L  
RT: 1.716 min Scan# 210  
Delta R.T. 0.000 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

Tgt Ion:101 Resp: 166281  
Ion Ratio Lower Upper  
101 100  
103 64.1 51.4 77.2

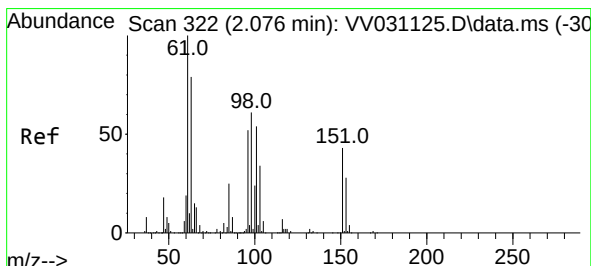
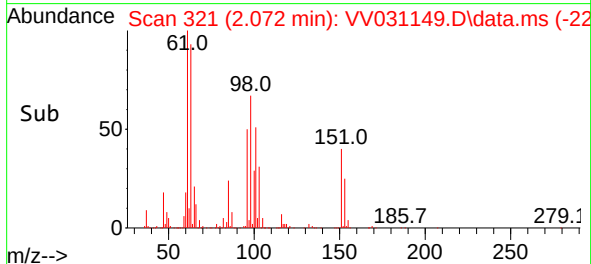
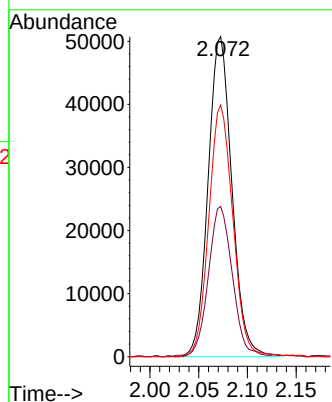
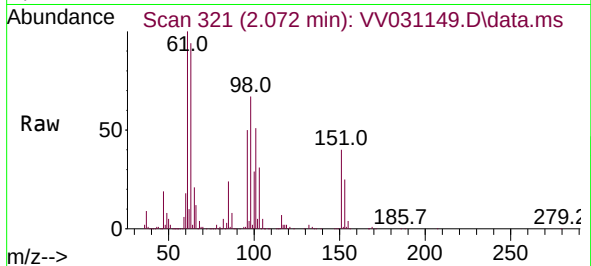




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 46.816 ug/L  
 RT: 2.072 min Scan# 321  
 Delta R.T. 0.000 min  
 Lab File: VV031149.D  
 Acq: 20 May 2023 09:16

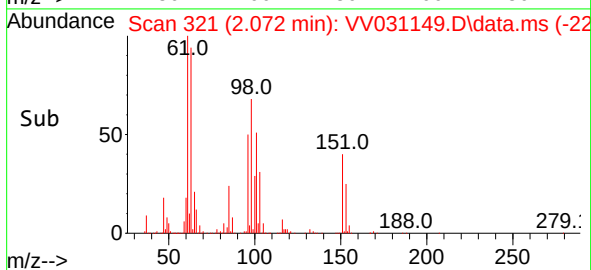
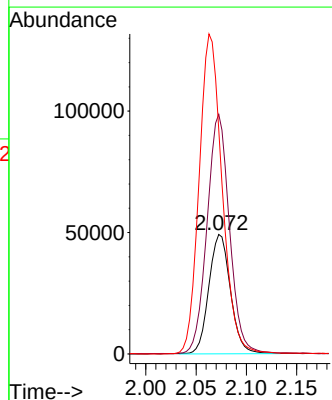
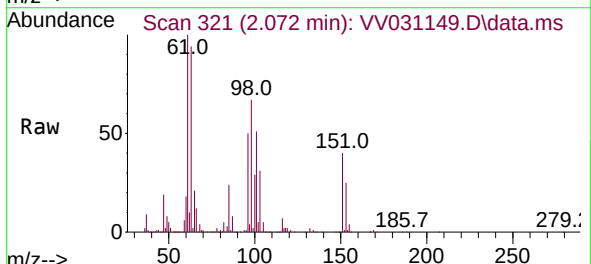
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050348

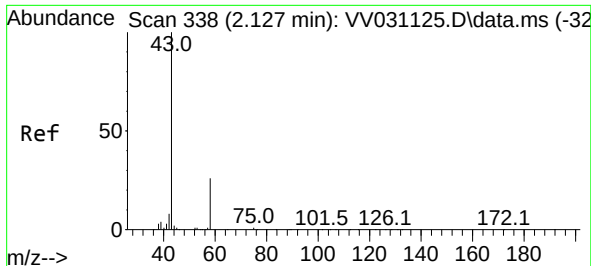
Tgt Ion: 101 Resp: 86238  
 Ion Ratio Lower Upper  
 101 100  
 85 46.7 38.0 57.0  
 151 79.4 61.7 92.5



#12  
 1,1-Dichloroethene  
 Concen: 46.934 ug/L  
 RT: 2.072 min Scan# 321  
 Delta R.T. -0.003 min  
 Lab File: VV031149.D  
 Acq: 20 May 2023 09:16

Tgt Ion: 96 Resp: 73341  
 Ion Ratio Lower Upper  
 96 100  
 61 200.7 137.9 256.1  
 63 187.8 114.2 212.0





#13

Acetone

Concen: 66.373 ug/L

RT: 2.114 min Scan# 31

Delta R.T. -0.013 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

Instrument :

MSVOA\_V

ClientSampleId :

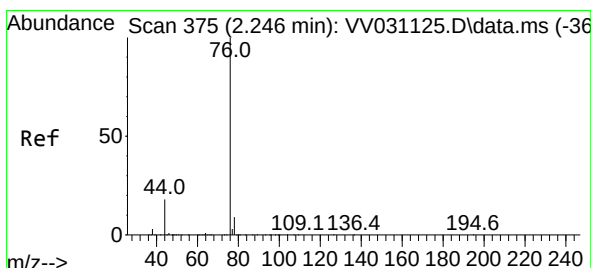
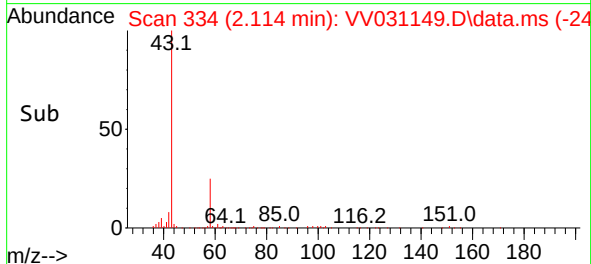
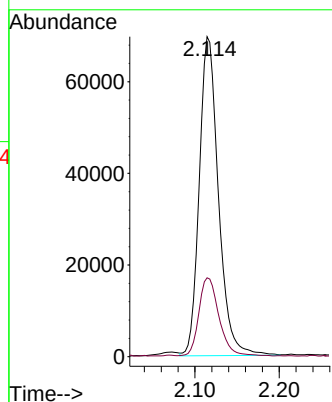
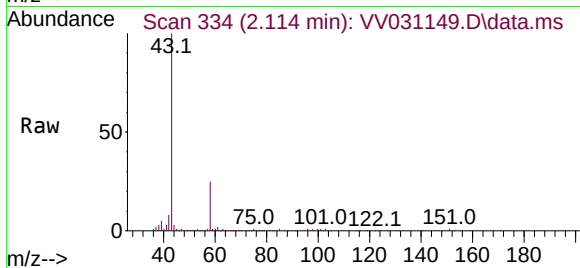
VSTD050348

Tgt Ion: 43 Resp: 110541

Ion Ratio Lower Upper

43 100

58 26.0 0.0 54.0



#14

Carbon disulfide

Concen: 47.714 ug/L

RT: 2.246 min Scan# 375

Delta R.T. 0.000 min

Lab File: VV031149.D

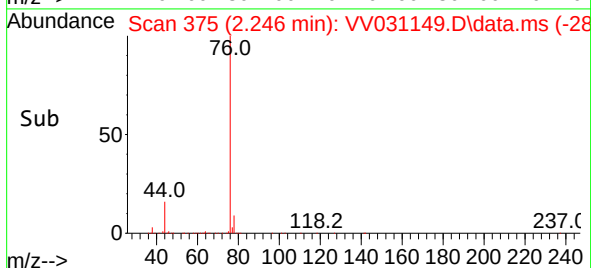
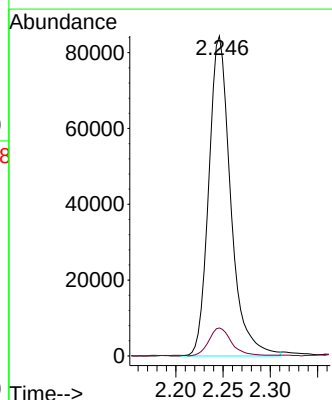
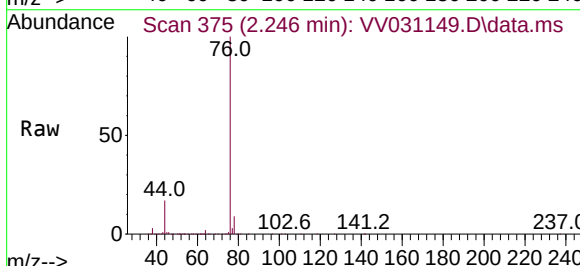
Acq: 20 May 2023 09:16

Tgt Ion: 76 Resp: 135873

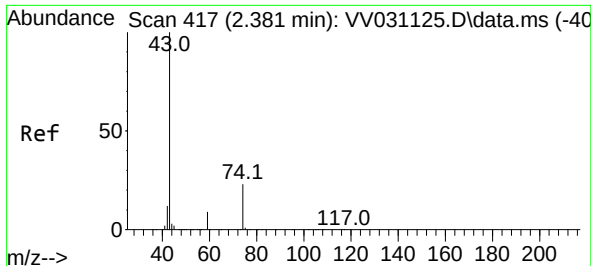
Ion Ratio Lower Upper

76 100

78 8.8 7.0 10.4



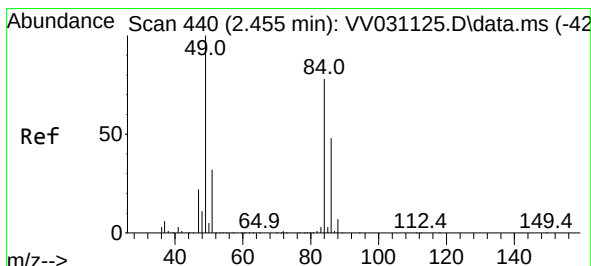
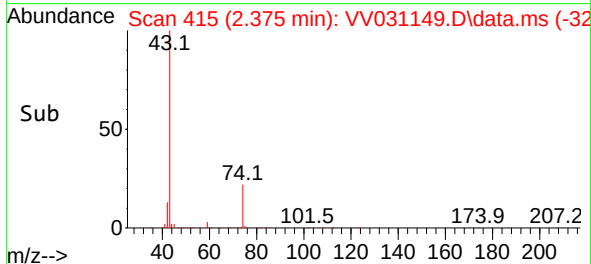
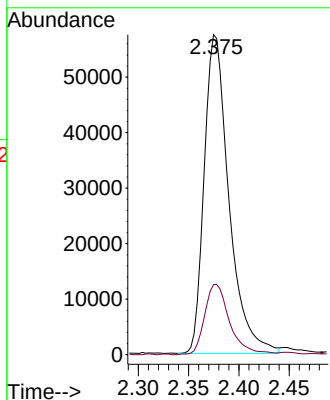
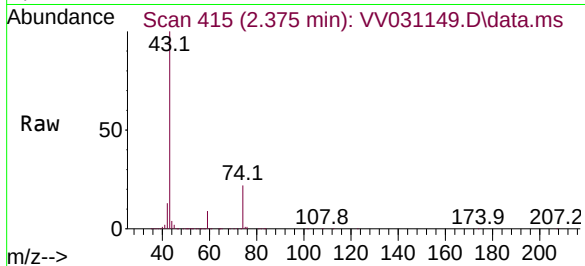




#15  
Methyl Acetate  
Concen: 51.969 ug/L  
RT: 2.375 min Scan# 417  
Delta R.T. -0.006 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

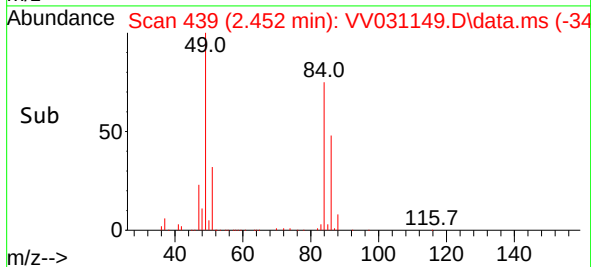
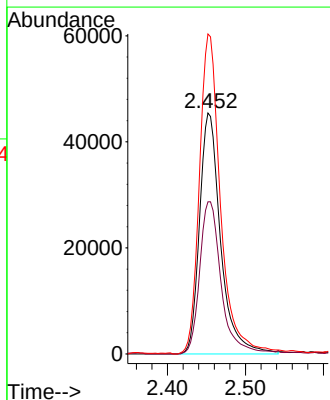
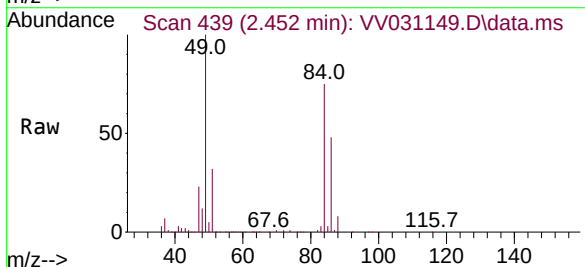
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050348

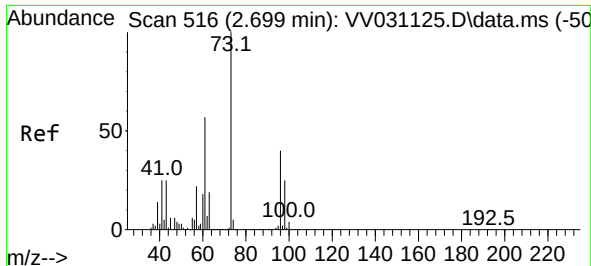
Tgt Ion: 43 Resp: 98368  
Ion Ratio Lower Upper  
43 100  
74 21.8 18.1 27.1



#16  
Methylene chloride  
Concen: 49.168 ug/L  
RT: 2.452 min Scan# 439  
Delta R.T. -0.003 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

Tgt Ion: 84 Resp: 85536  
Ion Ratio Lower Upper  
84 100  
86 63.1 43.3 80.3  
49 132.8 92.6 172.0





#17

trans-1,2-Dichloroethene

Concen: 47.674 ug/L

RT: 2.699 min Scan# 516

Delta R.T. 0.000 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050348

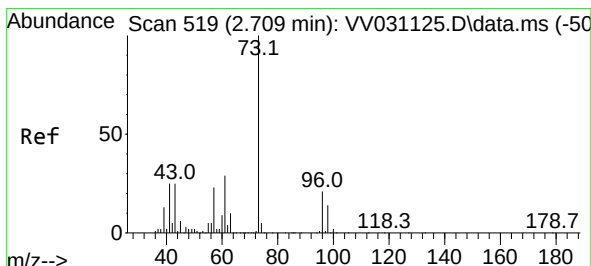
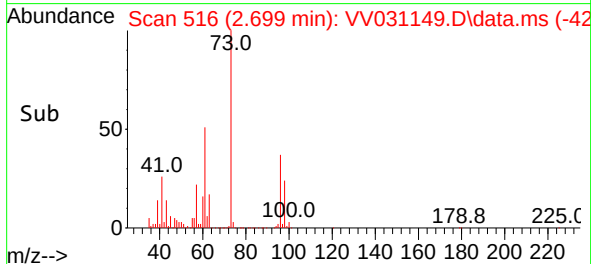
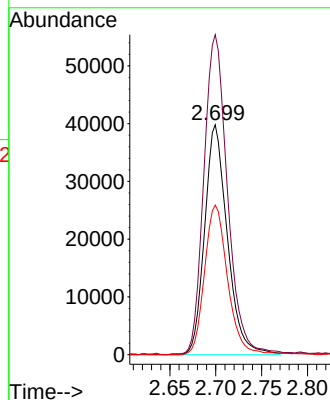
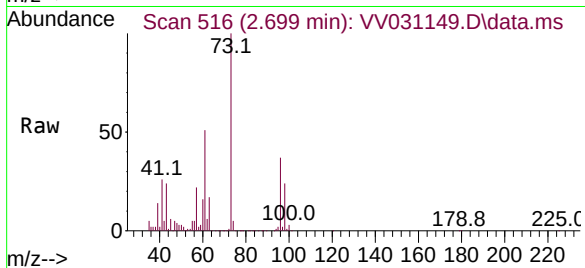
Tgt Ion: 96 Resp: 68879

Ion Ratio Lower Upper

96 100

61 139.2 100.0 185.6

98 65.0 45.4 84.2



#18

Methyl tert-butyl Ether

Concen: 53.121 ug/L

RT: 2.709 min Scan# 519

Delta R.T. 0.000 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

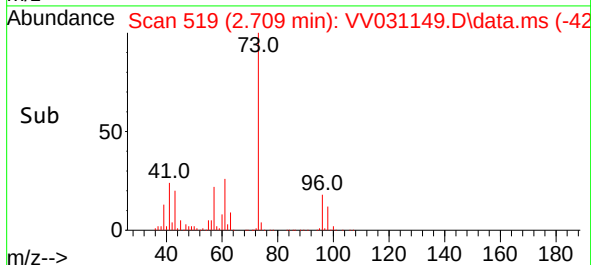
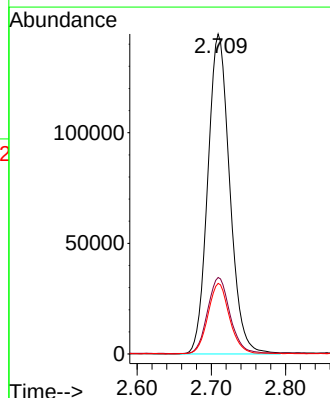
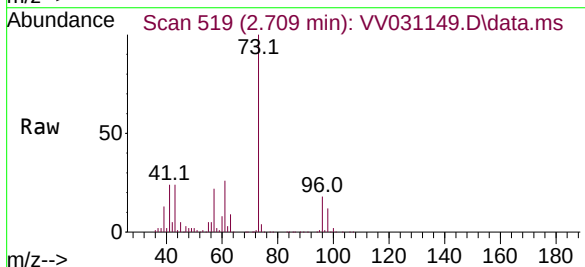
Tgt Ion: 73 Resp: 296481

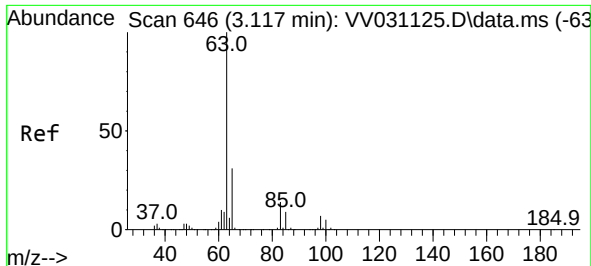
Ion Ratio Lower Upper

73 100

43 24.3 19.4 29.2

57 21.4 17.1 25.7





#19

1,1-Dichloroethane

Concen: 49.171 ug/L

RT: 3.117 min Scan# 64

Delta R.T. 0.000 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050348

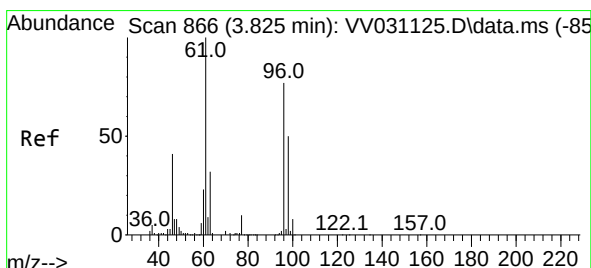
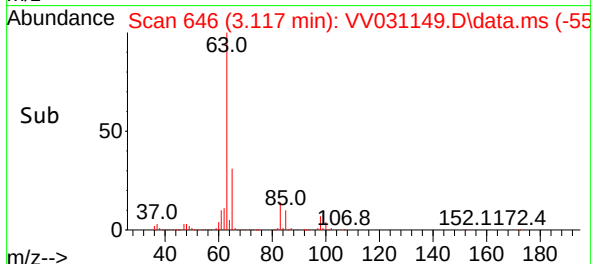
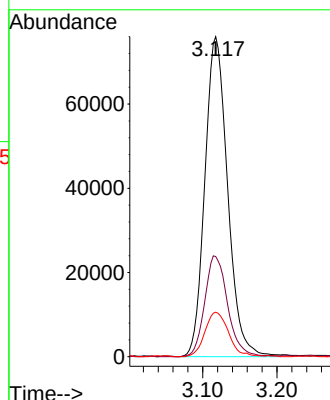
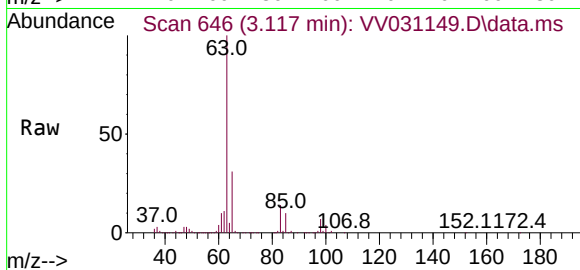
Tgt Ion: 63 Resp: 161899

Ion Ratio Lower Upper

63 100

65 31.3 21.9 40.7

83 13.9 10.4 19.2



#20

cis-1,2-Dichloroethene

Concen: 50.116 ug/L

RT: 3.822 min Scan# 865

Delta R.T. -0.003 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

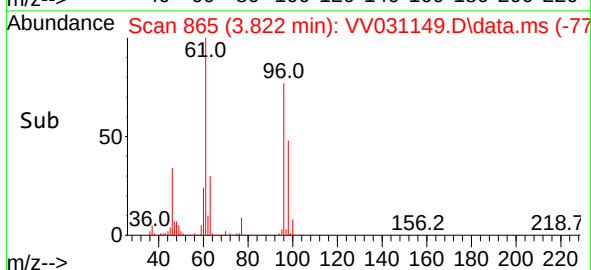
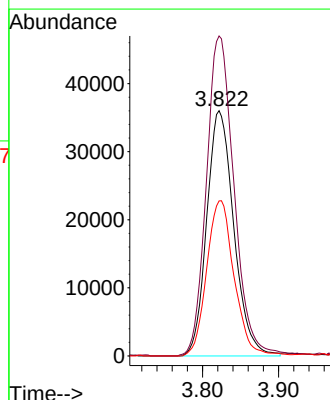
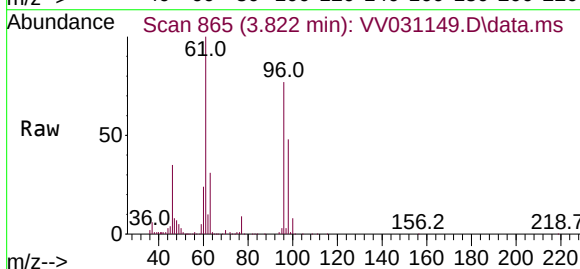
Tgt Ion: 96 Resp: 89259

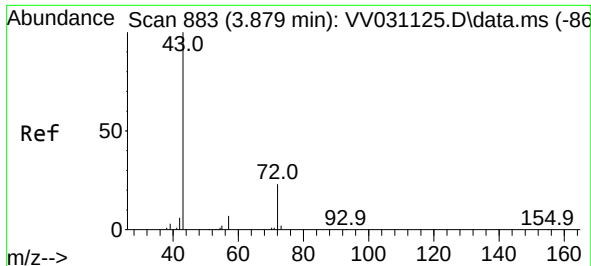
Ion Ratio Lower Upper

96 100

61 130.4 89.2 165.6

98 63.2 43.0 80.0

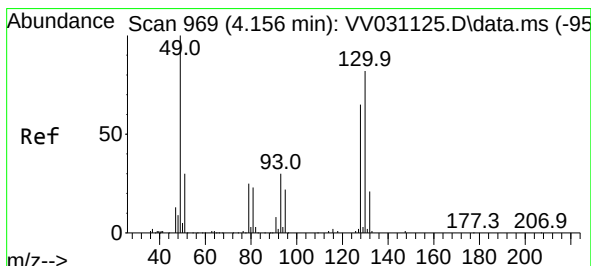
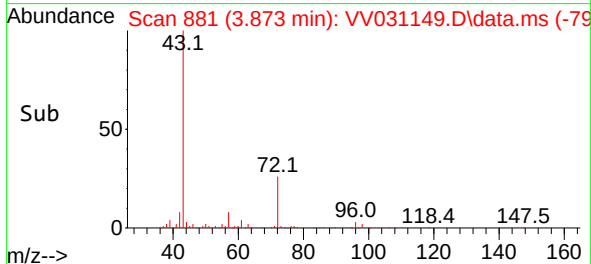
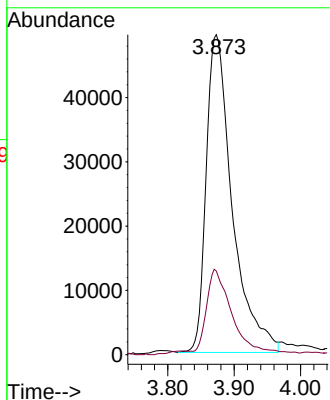
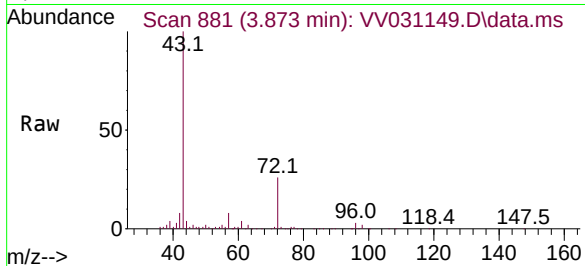




#22  
2-Butanone  
Concen: 84.494 ug/L  
RT: 3.873 min Scan# 881  
Delta R.T. -0.006 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

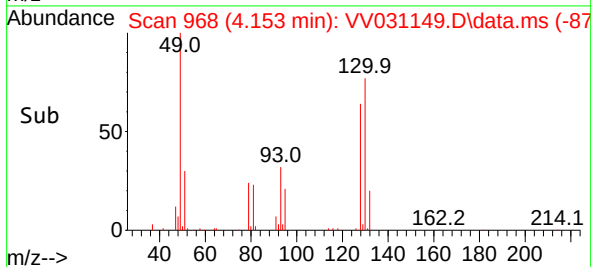
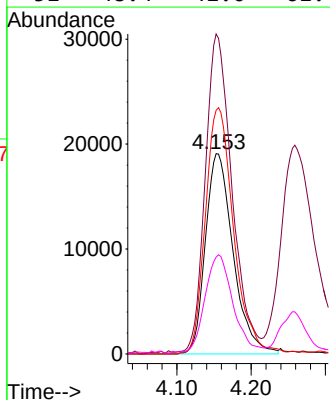
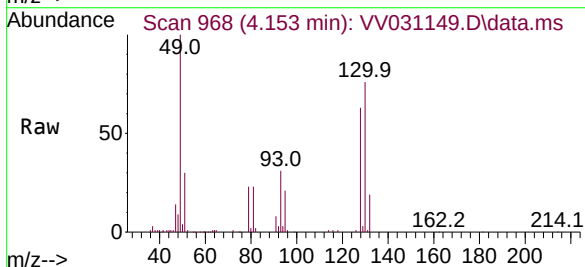
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050348

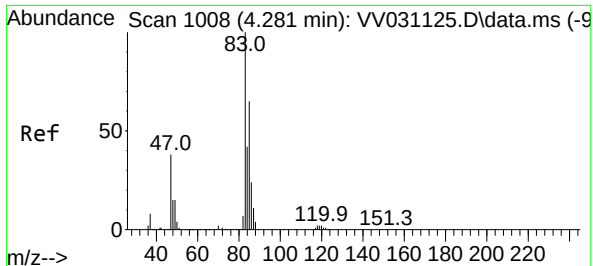
Tgt Ion: 43 Resp: 134944  
Ion Ratio Lower Upper  
43 100  
72 24.4 11.9 35.7



#23  
Bromochloromethane  
Concen: 50.519 ug/L  
RT: 4.153 min Scan# 968  
Delta R.T. -0.003 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

Tgt Ion:128 Resp: 49445  
Ion Ratio Lower Upper  
128 100  
49 159.8 113.2 210.2  
130 121.6 87.5 162.5  
51 48.4 41.0 61.4





#25

Chloroform

Concen: 49.544 ug/L

RT: 4.281 min Scan# 1008

Delta R.T. 0.000 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

Instrument :

MSVOA\_V

ClientSampleId :

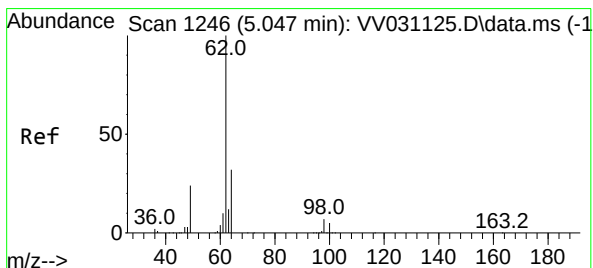
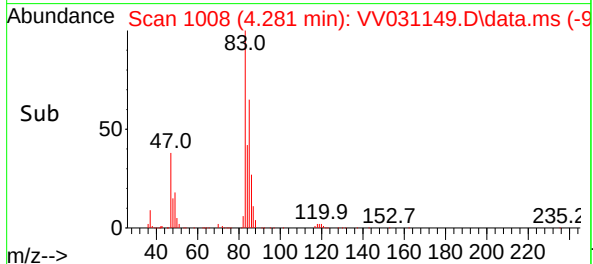
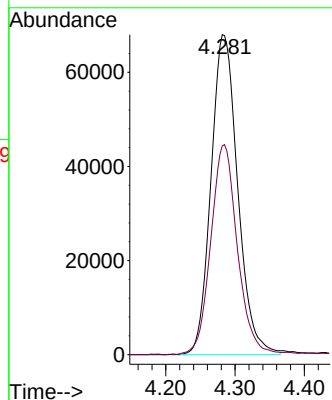
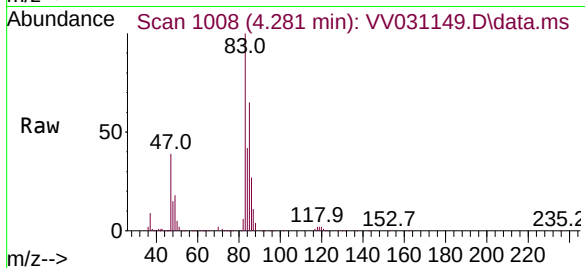
VSTD050348

Tgt Ion: 83 Resp: 182231

Ion Ratio Lower Upper

83 100

85 65.3 47.3 87.9



#27

1,2-Dichloroethane

Concen: 51.226 ug/L

RT: 5.047 min Scan# 1246

Delta R.T. 0.000 min

Lab File: VV031149.D

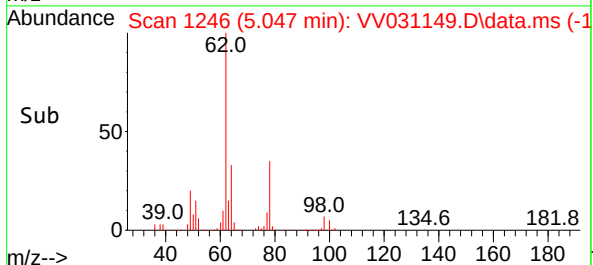
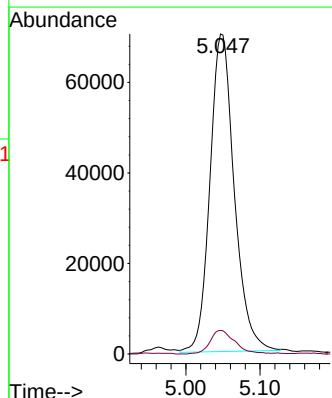
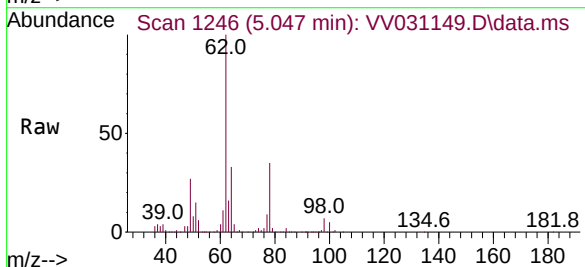
Acq: 20 May 2023 09:16

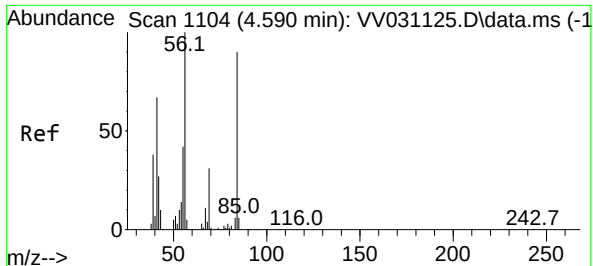
Tgt Ion: 62 Resp: 159865

Ion Ratio Lower Upper

62 100

98 7.4 6.3 9.5





#29

Cyclohexane

Concen: 56.143 ug/L

RT: 4.590 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050348

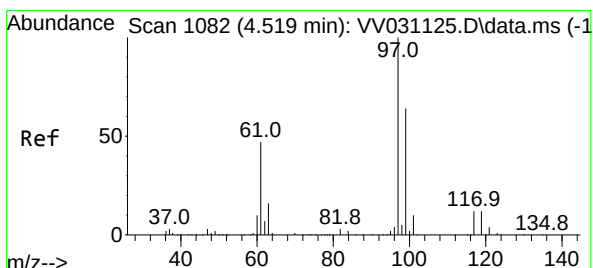
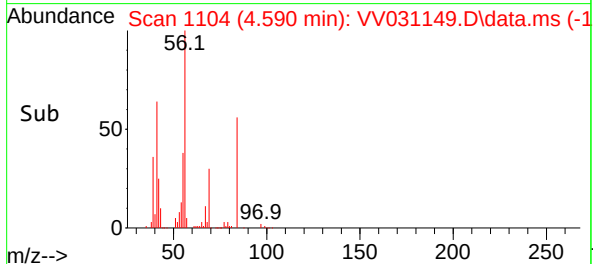
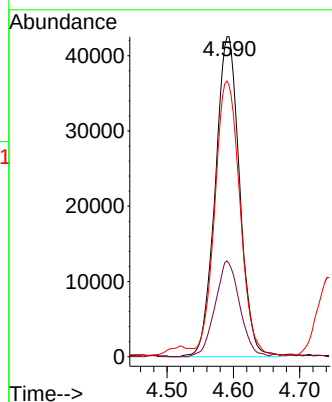
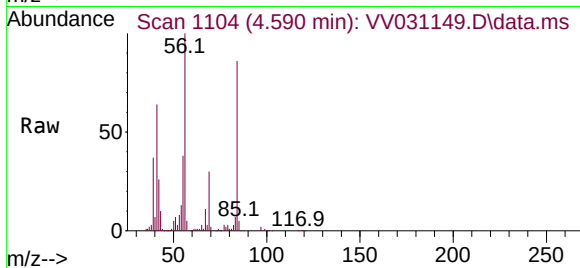
Tgt Ion: 56 Resp: 108377

Ion Ratio Lower Upper

56 100

69 30.2 25.1 37.7

84 88.2 71.5 107.3



#30

1,1,1-Trichloroethane

Concen: 55.119 ug/L

RT: 4.519 min Scan# 1082

Delta R.T. 0.000 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

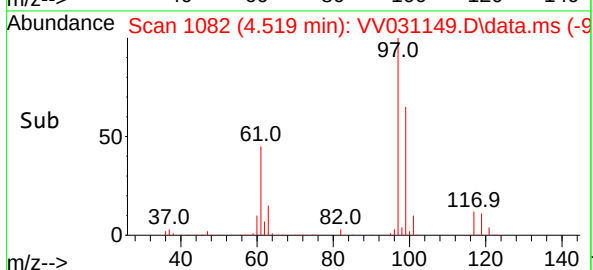
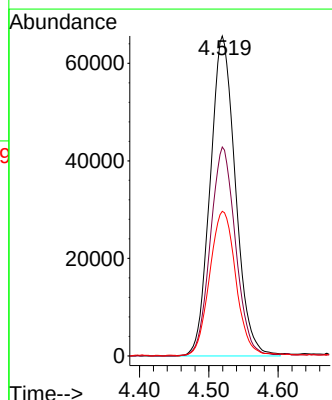
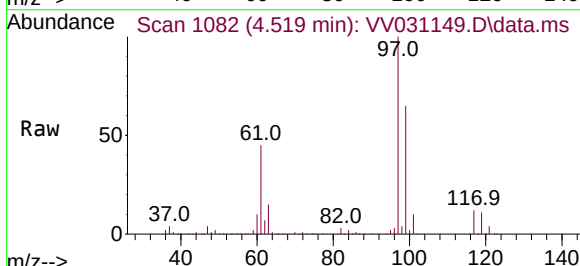
Tgt Ion: 97 Resp: 165922

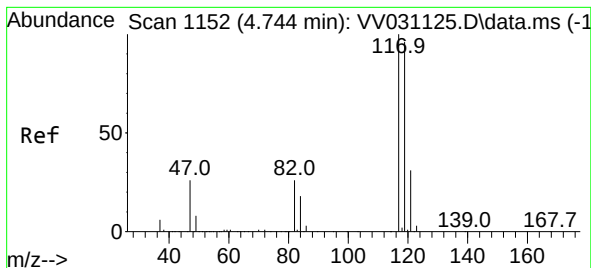
Ion Ratio Lower Upper

97 100

99 64.8 51.9 77.9

61 46.9 38.2 57.2





#31

Carbon tetrachloride

Concen: 54.608 ug/L

RT: 4.741 min Scan# 1152

Delta R.T. -0.003 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

Instrument :

MSVOA\_V

ClientSampleId :

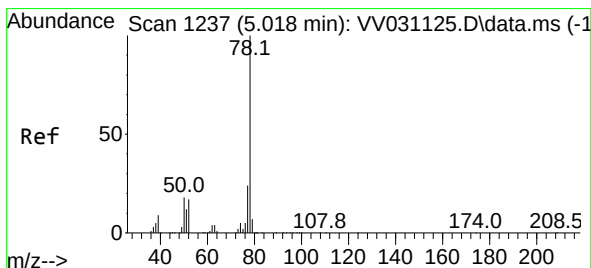
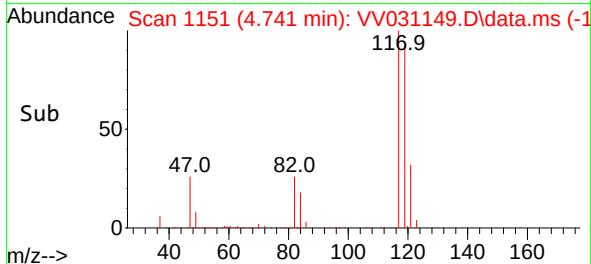
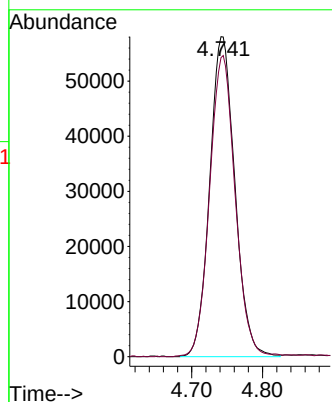
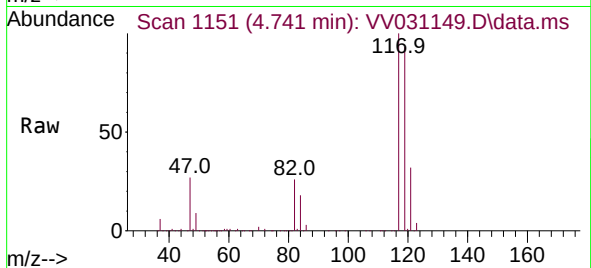
VSTD050348

Tgt Ion:117 Resp: 143208

Ion Ratio Lower Upper

117 100

119 95.4 76.9 115.3



#33

Benzene

Concen: 56.460 ug/L

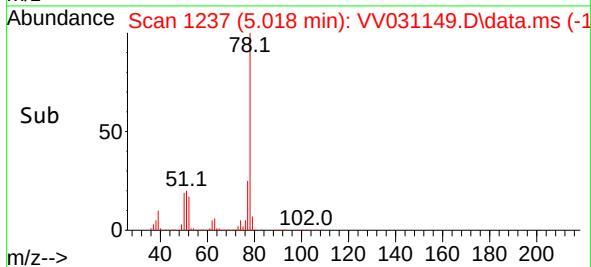
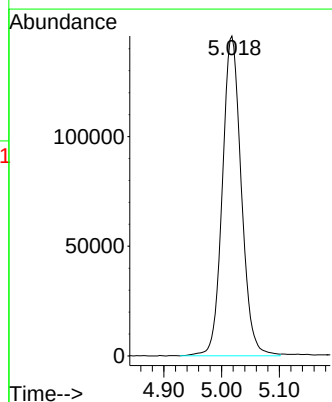
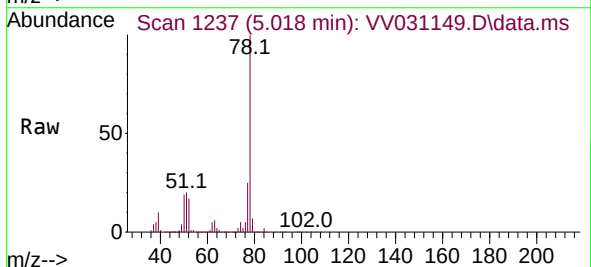
RT: 5.018 min Scan# 1237

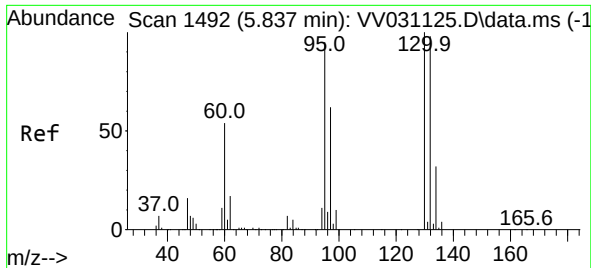
Delta R.T. 0.000 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

Tgt Ion: 78 Resp: 331816



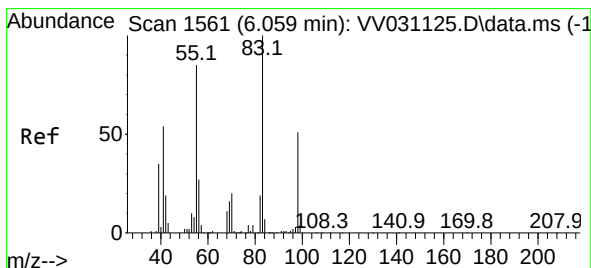
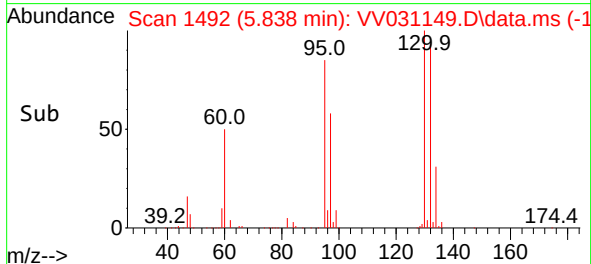
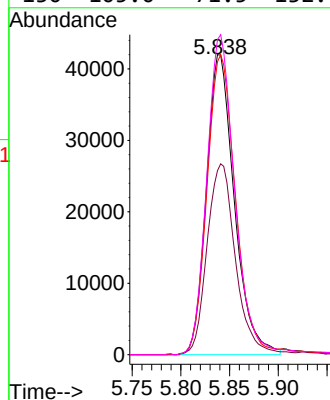
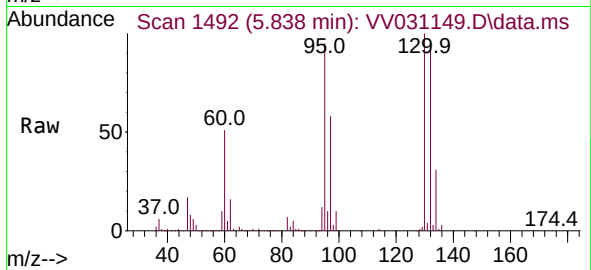


#34  
 Trichloroethene  
 Concen: 53.243 ug/L  
 RT: 5.838 min Scan# 1492  
 Delta R.T. 0.000 min  
 Lab File: VV031149.D  
 Acq: 20 May 2023 09:16

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050348

Tgt Ion: 95 Resp: 83844

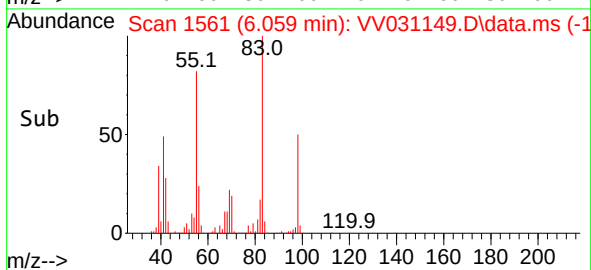
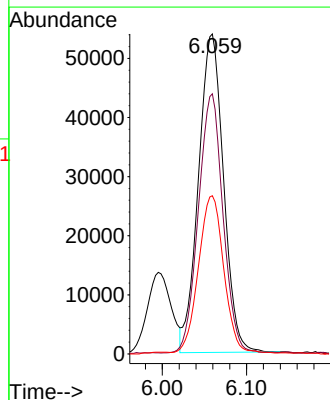
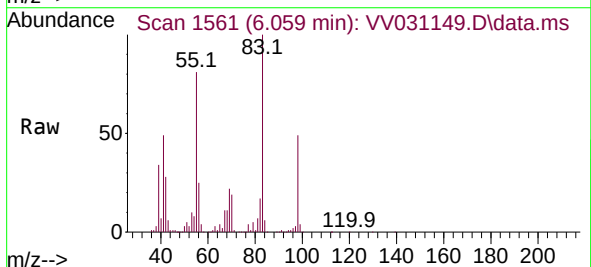
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 61.3  | 44.4  | 82.5  |
| 132 | 97.6  | 70.2  | 130.4 |
| 130 | 105.0 | 71.5  | 132.7 |



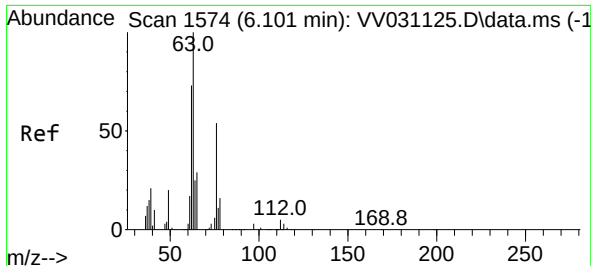
#35  
 Methylcyclohexane  
 Concen: 53.285 ug/L  
 RT: 6.059 min Scan# 1561  
 Delta R.T. 0.000 min  
 Lab File: VV031149.D  
 Acq: 20 May 2023 09:16

Tgt Ion: 83 Resp: 111345

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 79.8  | 64.2  | 96.2  |
| 98  | 50.1  | 40.0  | 60.0  |



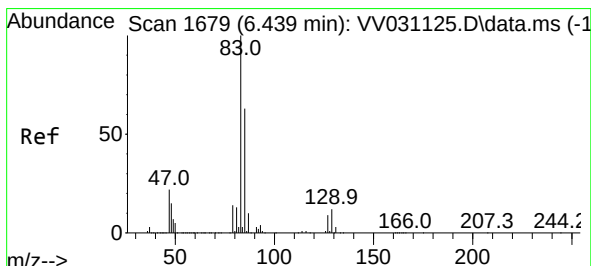
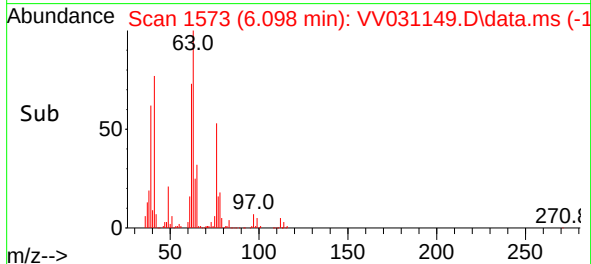
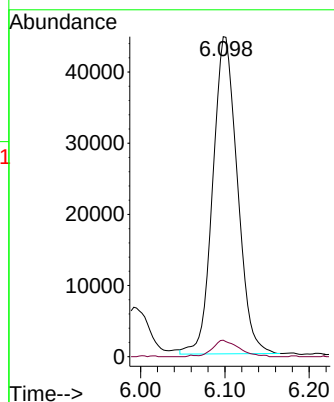
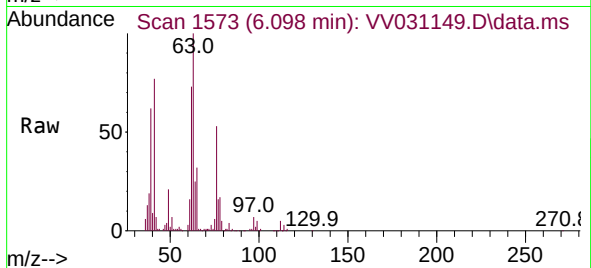




#37  
1,2-Dichloropropane  
Concen: 55.835 ug/L  
RT: 6.098 min Scan# 1574  
Delta R.T. -0.003 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

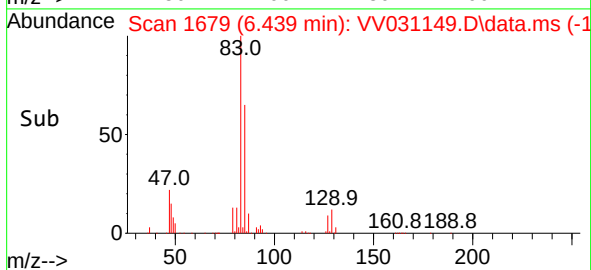
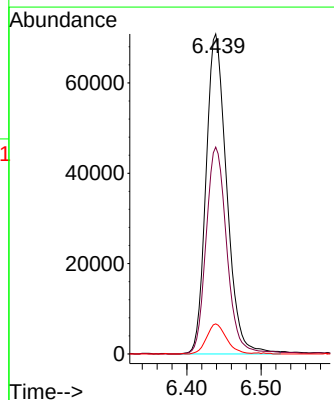
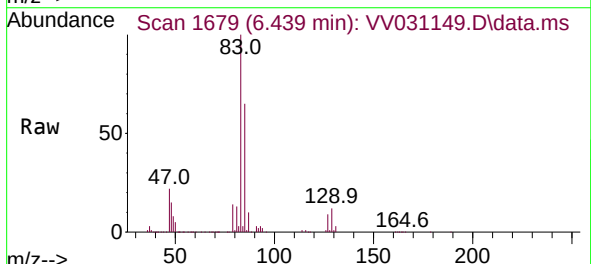
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050348

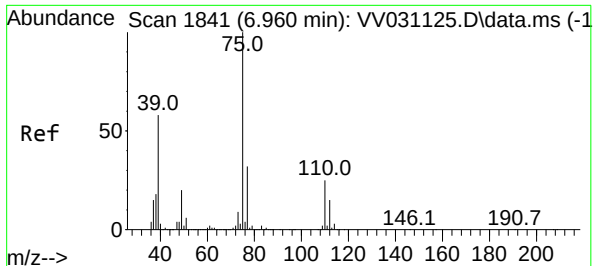
Tgt Ion: 63 Resp: 90318  
Ion Ratio Lower Upper  
63 100  
112 5.4 4.3 6.5



#38  
Bromodichloromethane  
Concen: 54.740 ug/L  
RT: 6.439 min Scan# 1679  
Delta R.T. 0.000 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

Tgt Ion: 83 Resp: 137261  
Ion Ratio Lower Upper  
83 100  
85 64.7 44.0 81.6  
127 9.4 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 51.845 ug/L

RT: 6.960 min Scan# 11

Delta R.T. 0.000 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

Instrument :

MSVOA\_V

ClientSampleId :

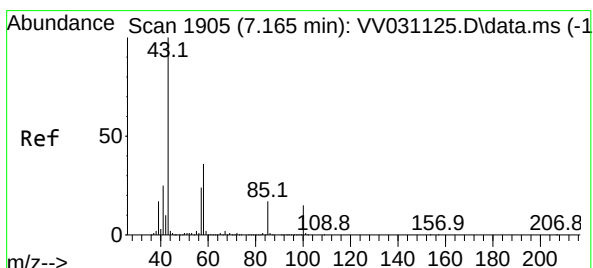
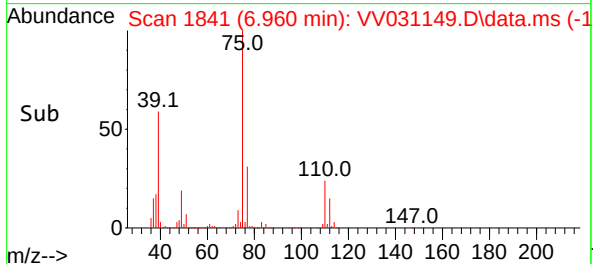
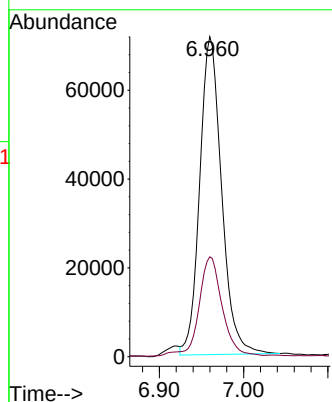
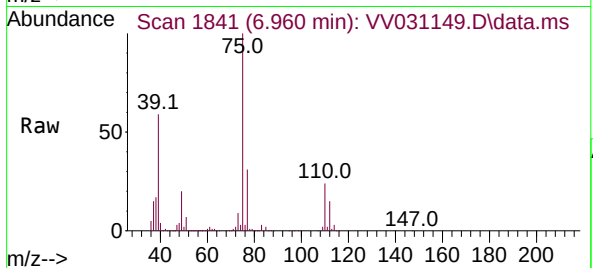
VSTD050348

Tgt Ion: 75 Resp: 129319

Ion Ratio Lower Upper

75 100

77 31.2 22.3 41.3



#40

4-Methyl-2-pentanone

Concen: 118.987 ug/L

RT: 7.166 min Scan# 1905

Delta R.T. 0.000 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

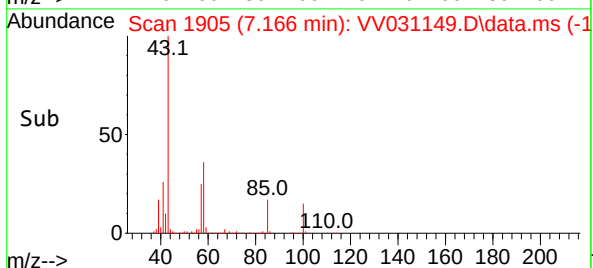
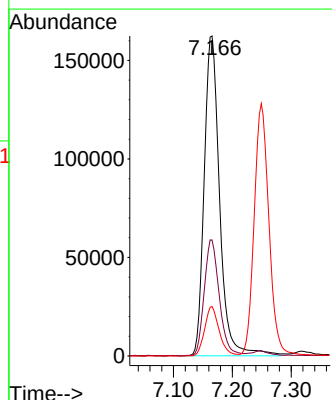
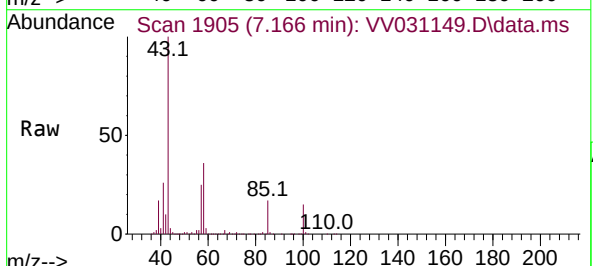
Tgt Ion: 43 Resp: 296173

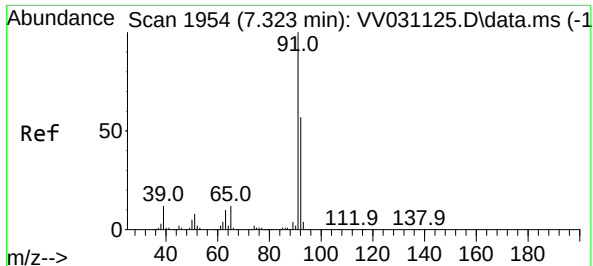
Ion Ratio Lower Upper

43 100

58 34.8 29.0 43.4

100 14.5 12.2 18.4





#42

Toluene

Concen: 57.256 ug/L

RT: 7.323 min Scan# 1954

Delta R.T. 0.000 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

Instrument :

MSVOA\_V

ClientSampleId :

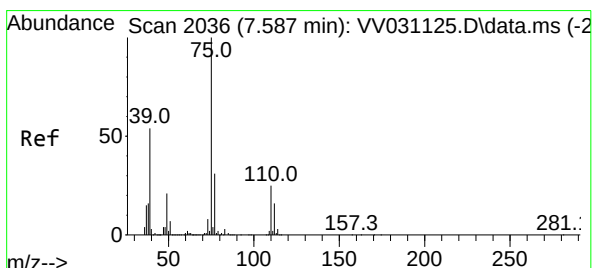
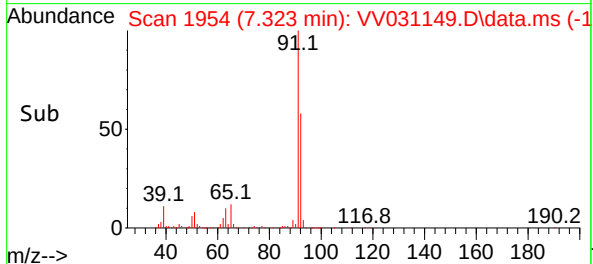
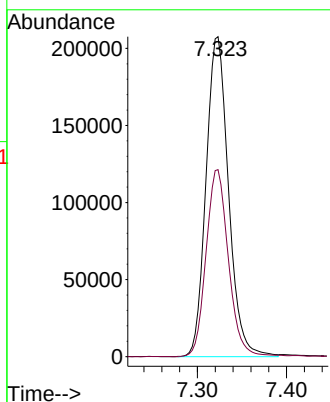
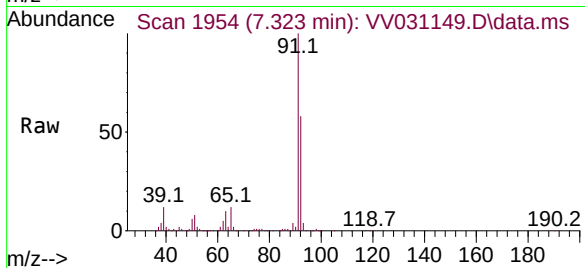
VSTD050348

Tgt Ion: 91 Resp: 364065

Ion Ratio Lower Upper

91 100

92 58.5 40.9 76.0



#44

trans-1,3-Dichloropropene

Concen: 50.850 ug/L

RT: 7.587 min Scan# 2036

Delta R.T. 0.000 min

Lab File: VV031149.D

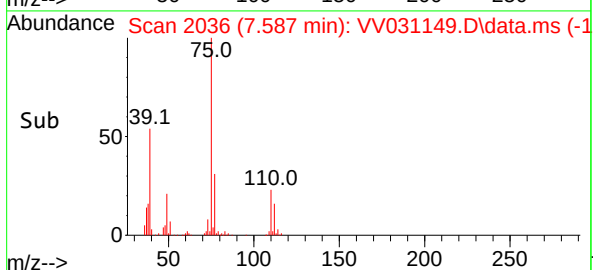
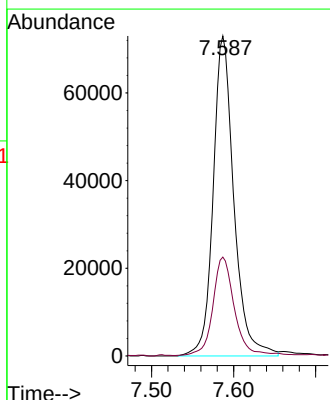
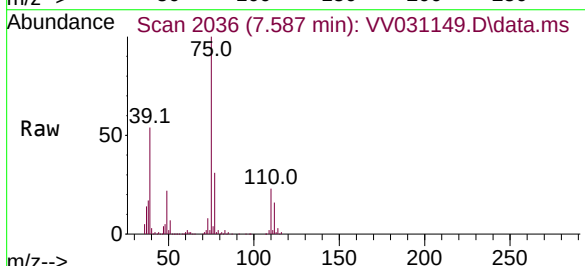
Acq: 20 May 2023 09:16

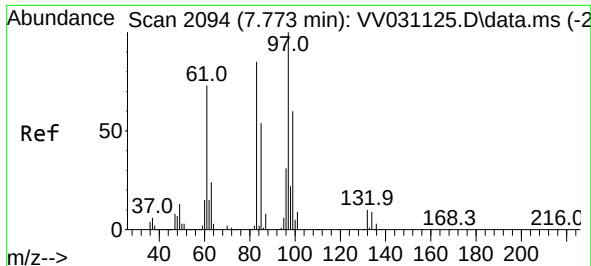
Tgt Ion: 75 Resp: 128311

Ion Ratio Lower Upper

75 100

77 30.9 22.2 41.2

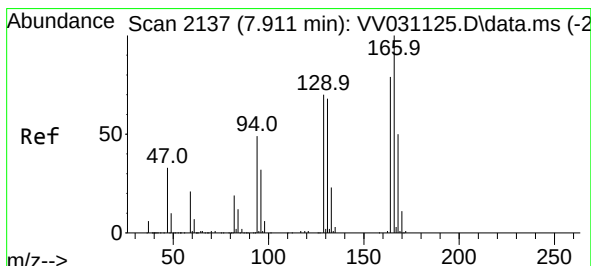
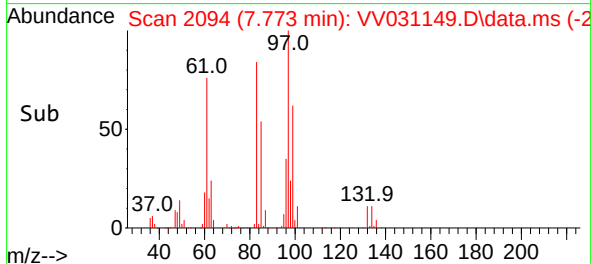
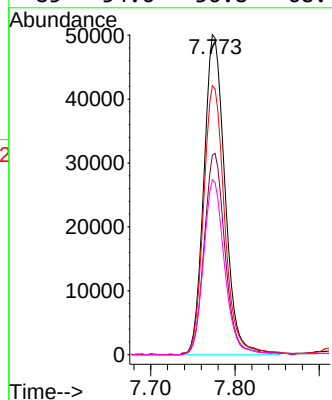
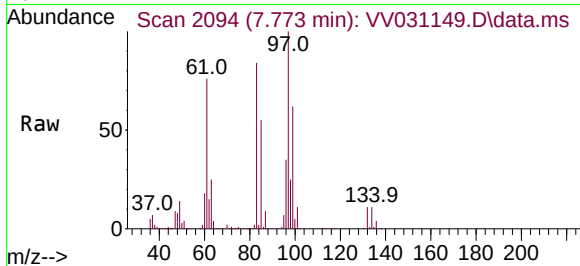




#45  
1,1,2-Trichloroethane  
Concen: 49.454 ug/L  
RT: 7.773 min Scan# 2094  
Delta R.T. 0.000 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

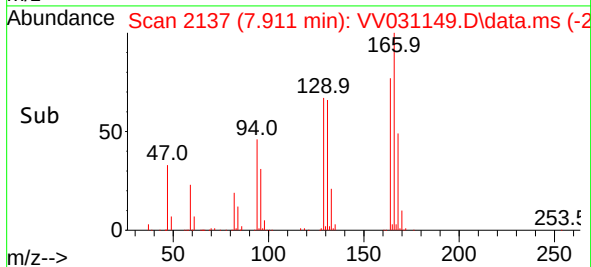
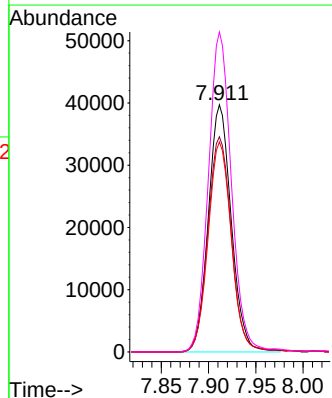
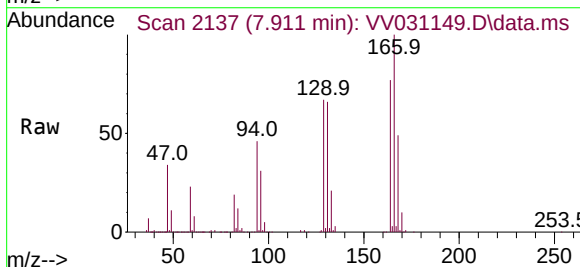
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050348

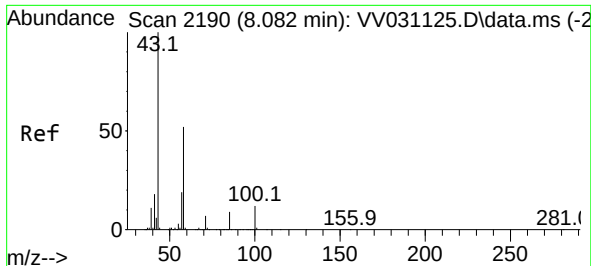
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 87292 |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 62.3     | 43.2 80.2   |
| 83 84.1     | 60.5 112.3  |
| 85 54.6     | 36.8 68.4   |



#46  
Tetrachloroethene  
Concen: 49.652 ug/L  
RT: 7.911 min Scan# 2137  
Delta R.T. 0.000 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 67139 |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 129 | 87.1    | 65.5  | 121.7 |
| 131 | 85.0    | 62.1  | 115.3 |
| 166 | 129.5   | 93.4  | 173.4 |

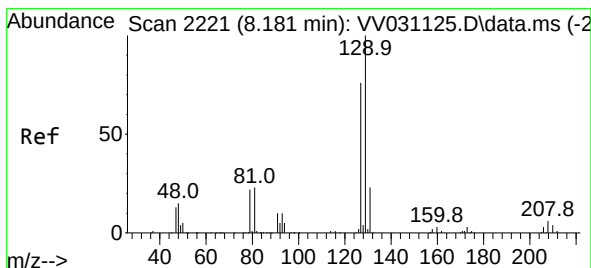
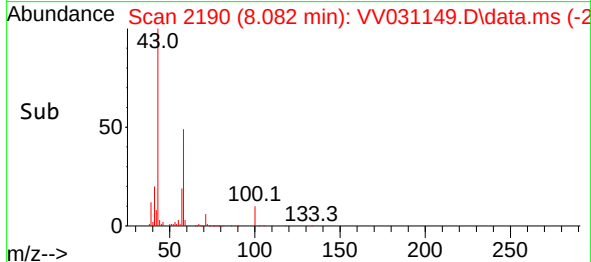
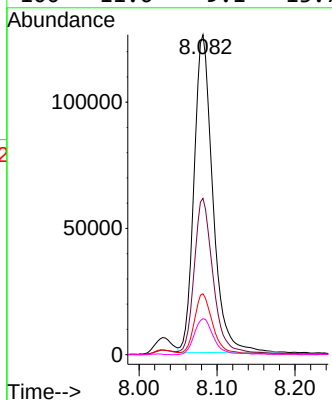
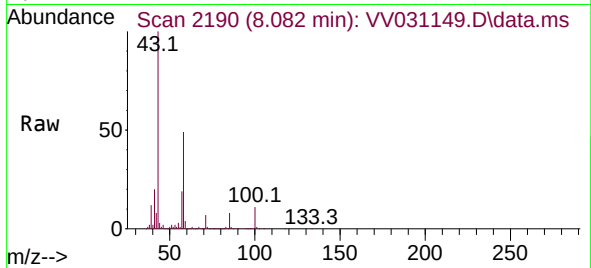




#48  
2-Hexanone  
Concen: 101.475 ug/L  
RT: 8.082 min Scan# 2190  
Delta R.T. 0.000 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

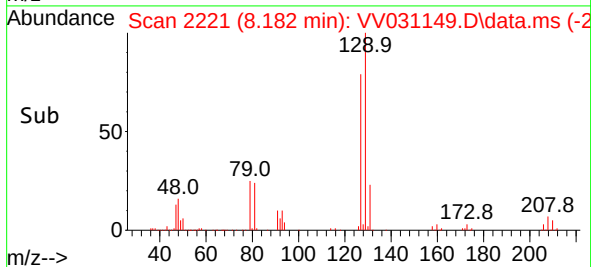
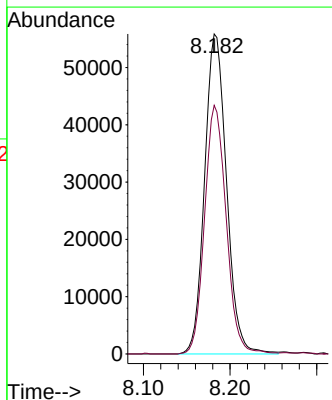
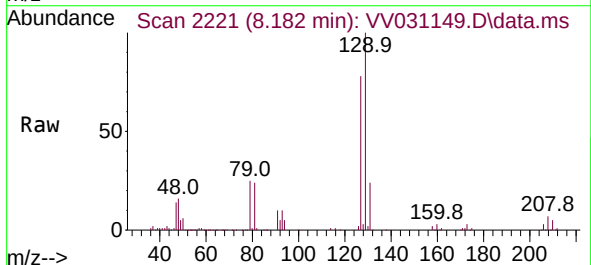
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050348

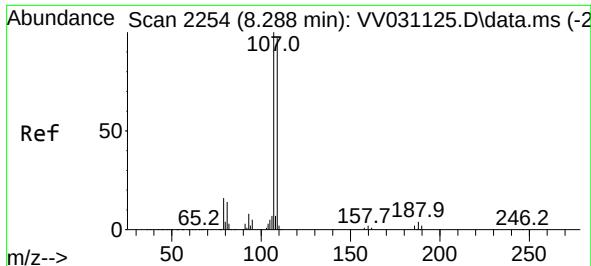
Tgt Ion: 43 Resp: 210378  
Ion Ratio Lower Upper  
43 100  
58 48.9 39.8 59.6  
57 18.9 14.4 21.6  
100 11.6 9.1 13.7



#49  
Dibromochloromethane  
Concen: 49.316 ug/L  
RT: 8.182 min Scan# 2221  
Delta R.T. 0.000 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

Tgt Ion: 129 Resp: 98215  
Ion Ratio Lower Upper  
129 100  
127 77.7 56.1 104.1





#50

1,2-Dibromoethane

Concen: 51.381 ug/L

RT: 8.288 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050348

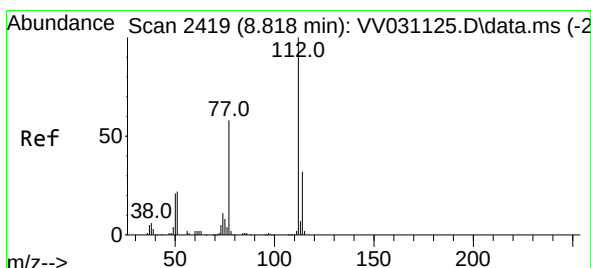
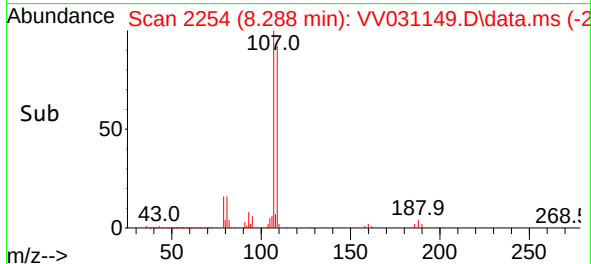
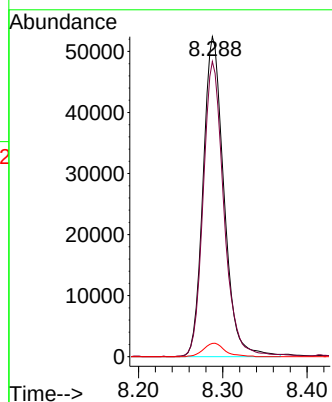
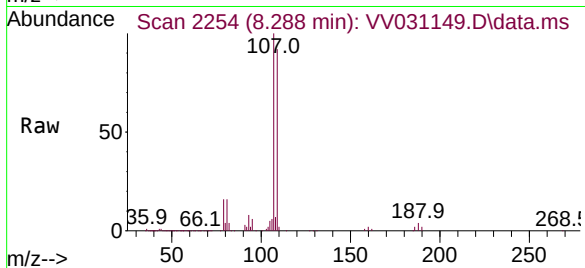
Tgt Ion:107 Resp: 90171

Ion Ratio Lower Upper

107 100

109 92.3 65.6 121.8

188 4.2 3.8 5.6



#51

Chlorobenzene

Concen: 49.466 ug/L

RT: 8.821 min Scan# 2420

Delta R.T. 0.003 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

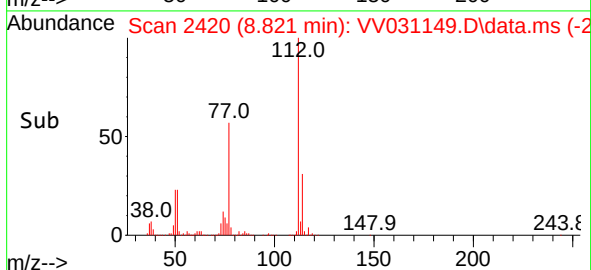
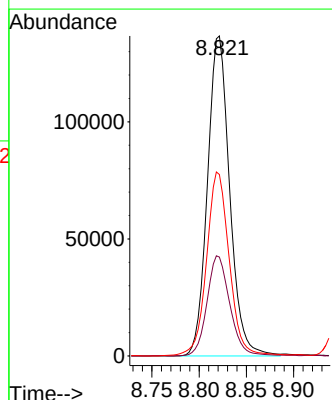
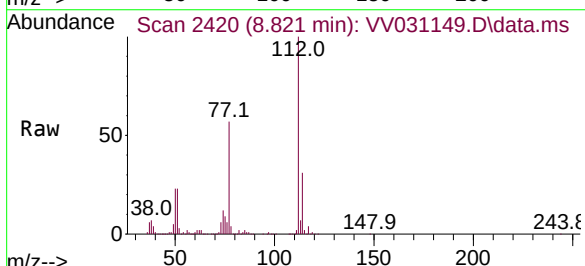
Tgt Ion:112 Resp: 223869

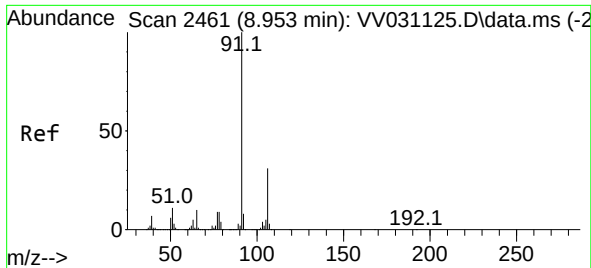
Ion Ratio Lower Upper

112 100

114 30.9 23.0 42.8

77 56.7 46.2 69.4

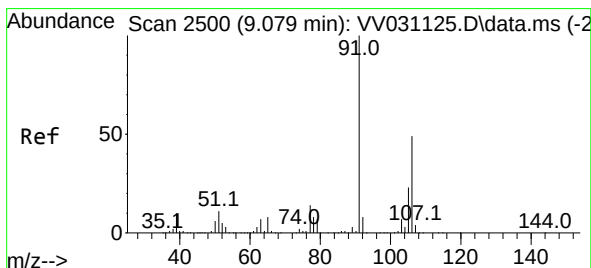
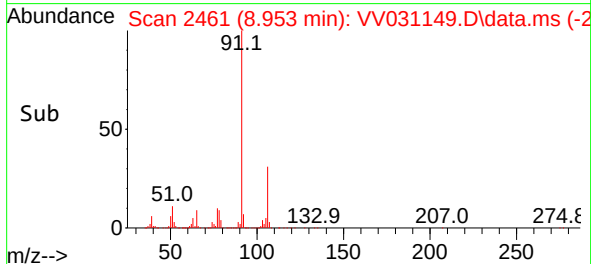
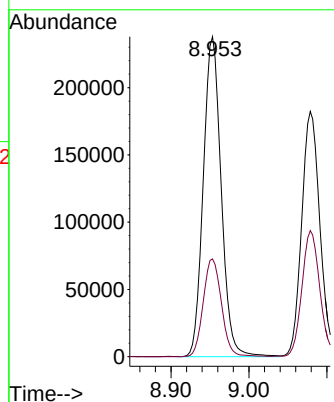
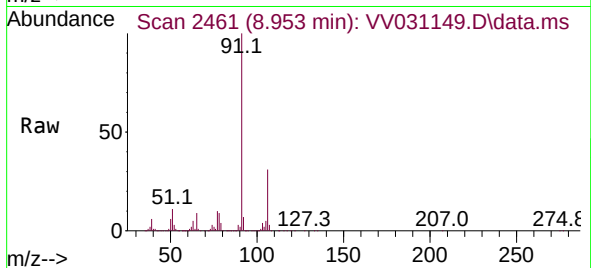




#52  
Ethylbenzene  
Concen: 52.146 ug/L  
RT: 8.953 min Scan# 2461  
Delta R.T. 0.000 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

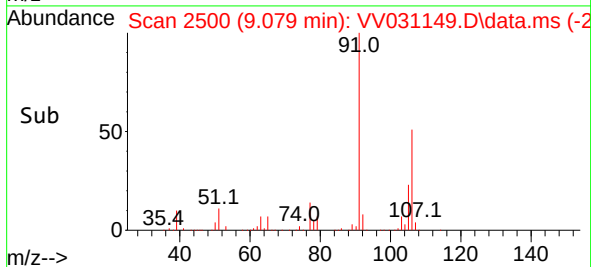
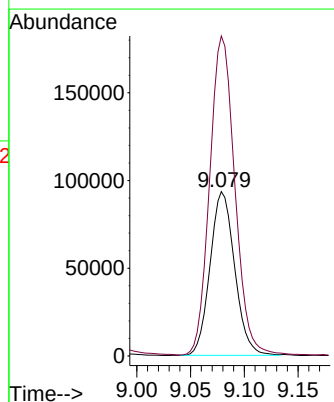
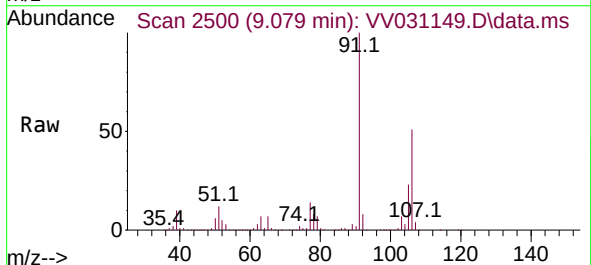
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050348

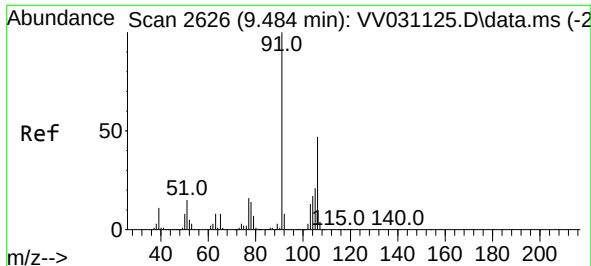
Tgt Ion: 91 Resp: 379624  
Ion Ratio Lower Upper  
91 100  
106 30.5 21.5 39.9



#53  
m,p-Xylene  
Concen: 52.684 ug/L  
RT: 9.079 min Scan# 2500  
Delta R.T. 0.000 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

Tgt Ion: 106 Resp: 148777  
Ion Ratio Lower Upper  
106 100  
91 194.7 145.3 269.8

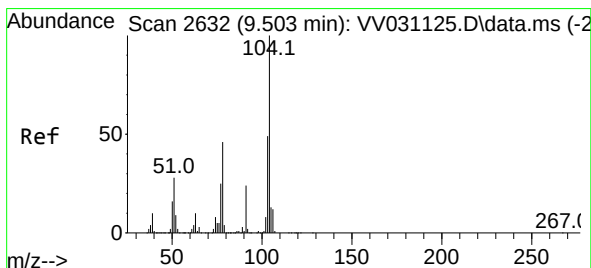
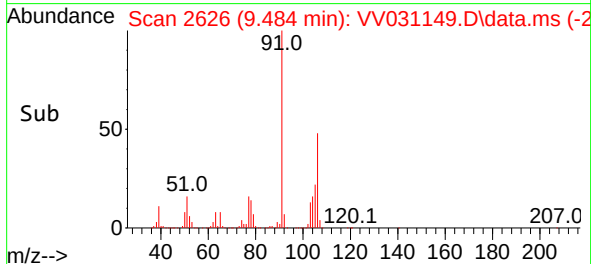
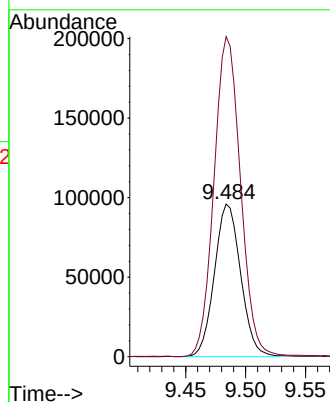
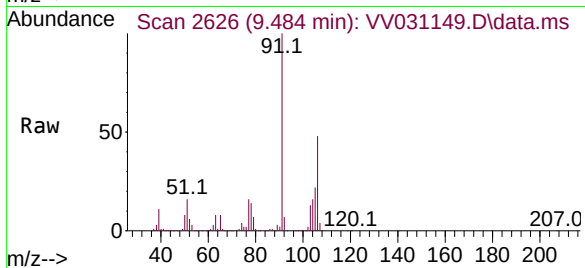




#54  
o-Xylene  
Concen: 52.271 ug/L  
RT: 9.484 min Scan# 2626  
Delta R.T. 0.000 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

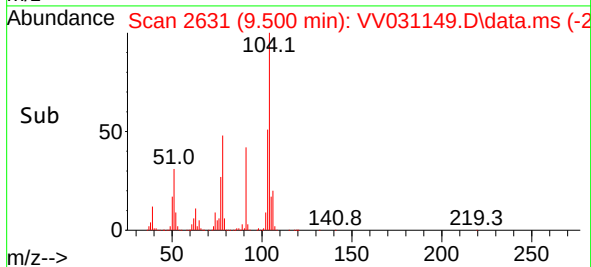
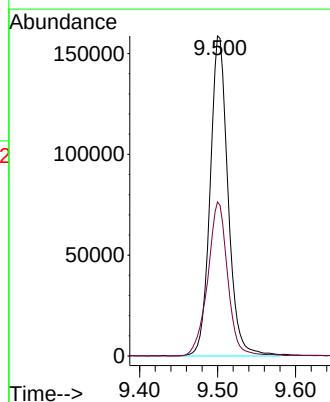
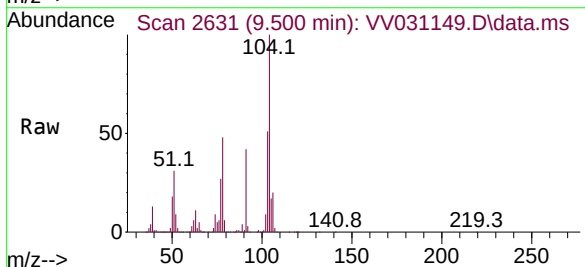
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050348

Tgt Ion:106 Resp: 145619  
Ion Ratio Lower Upper  
106 100  
91 209.5 150.4 279.2

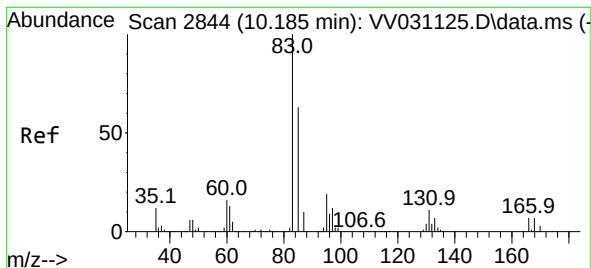


#55  
Styrene  
Concen: 51.594 ug/L  
RT: 9.500 min Scan# 2631  
Delta R.T. -0.003 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

Tgt Ion:104 Resp: 254203  
Ion Ratio Lower Upper  
104 100  
78 48.2 33.2 61.6



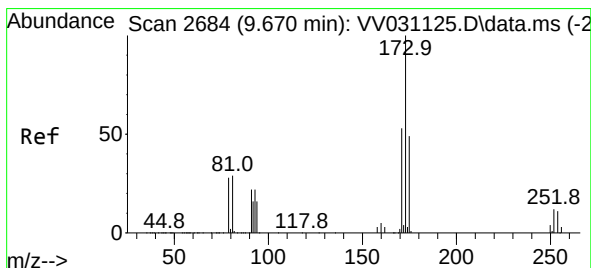
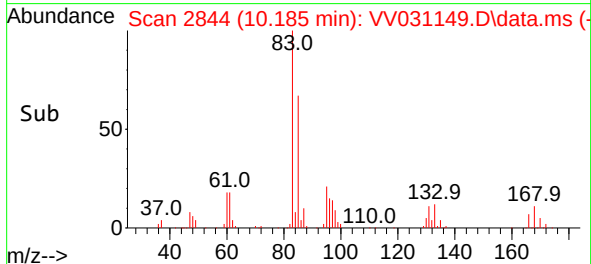
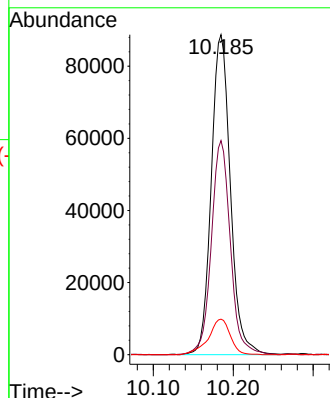
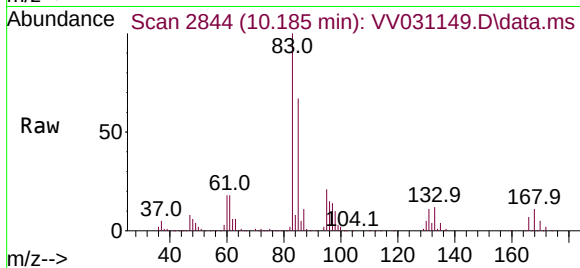




#57  
1,1,2,2-Tetrachloroethane  
Concen: 50.875 ug/L  
RT: 10.185 min Scan# 2844  
Delta R.T. 0.000 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

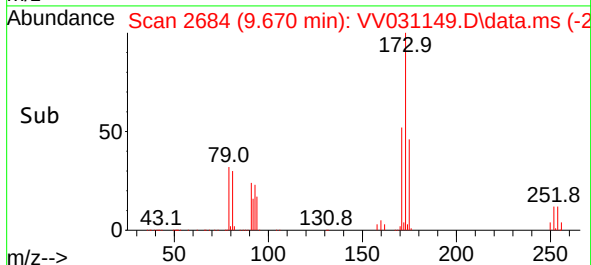
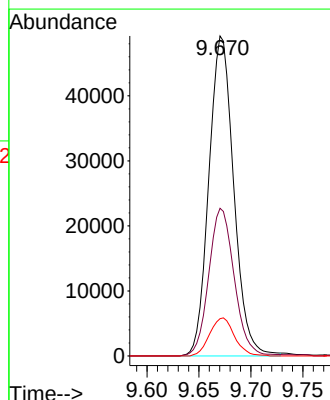
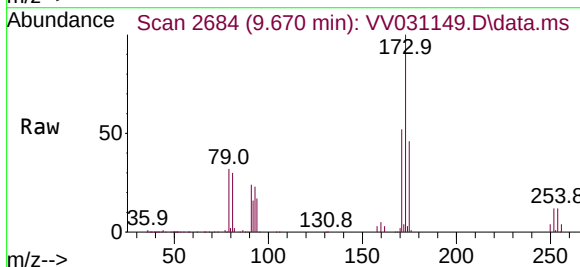
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050348

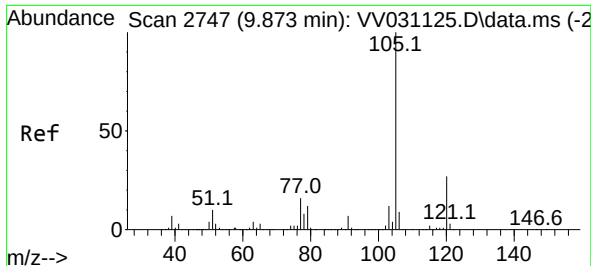
Tgt Ion: 83 Resp: 147548  
Ion Ratio Lower Upper  
83 100  
85 66.9 45.0 83.6  
131 11.1 9.2 13.8



#59  
Bromoform  
Concen: 45.774 ug/L  
RT: 9.670 min Scan# 2684  
Delta R.T. 0.000 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

Tgt Ion: 173 Resp: 81877  
Ion Ratio Lower Upper  
173 100  
175 47.5 38.8 58.2  
254 11.9 8.8 13.2

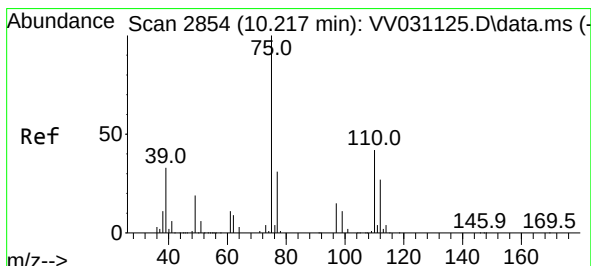
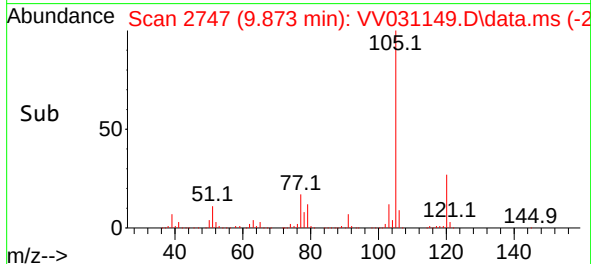
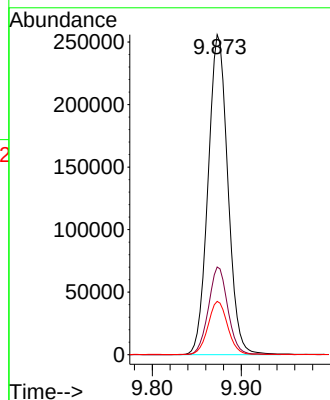
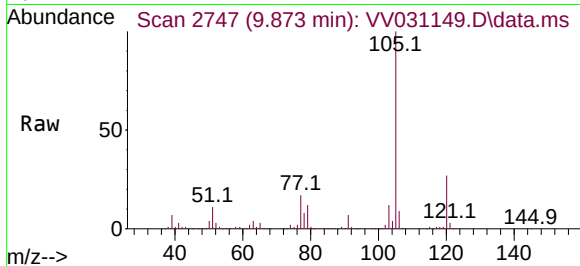




#60  
Isopropylbenzene  
Concen: 47.771 ug/L  
RT: 9.873 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

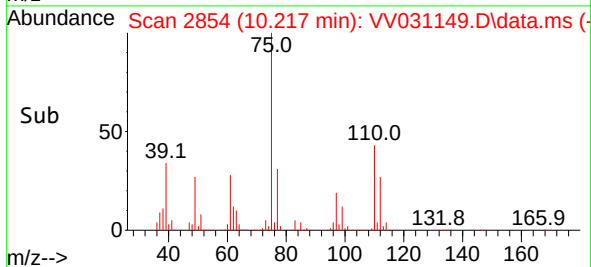
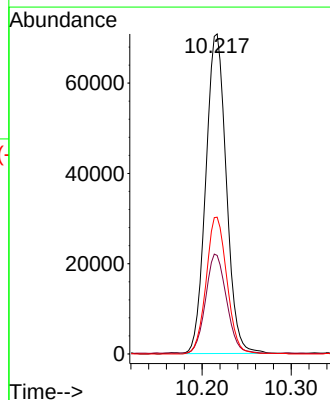
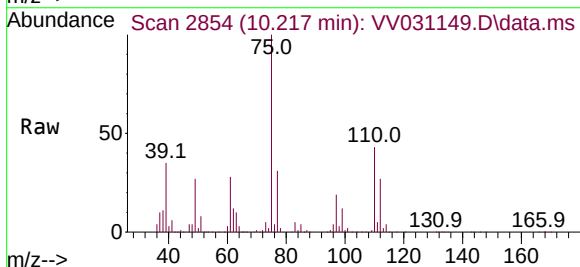
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050348

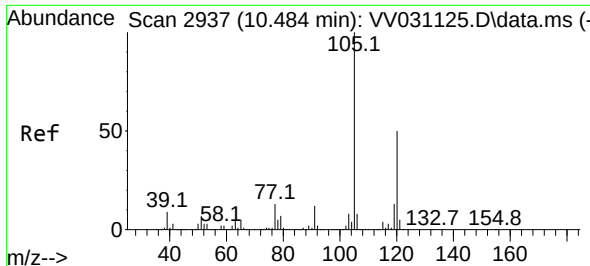
Tgt Ion:105 Resp: 394118  
Ion Ratio Lower Upper  
105 100  
120 26.8 21.4 32.0  
77 16.4 13.0 19.6



#61  
1,2,3-Trichloropropane  
Concen: 47.711 ug/L  
RT: 10.217 min Scan# 2854  
Delta R.T. 0.000 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

Tgt Ion: 75 Resp: 113226  
Ion Ratio Lower Upper  
75 100  
77 31.8 25.5 38.3  
110 43.3 32.5 48.7

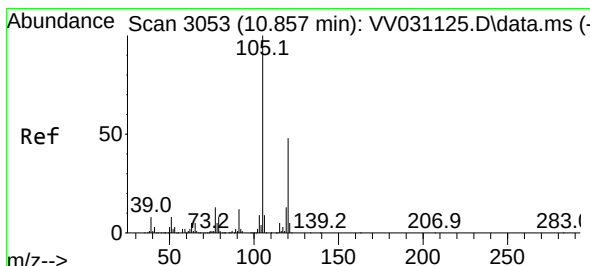
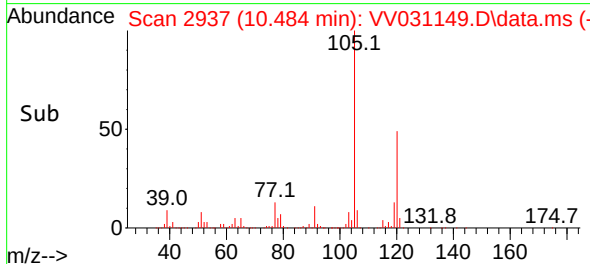
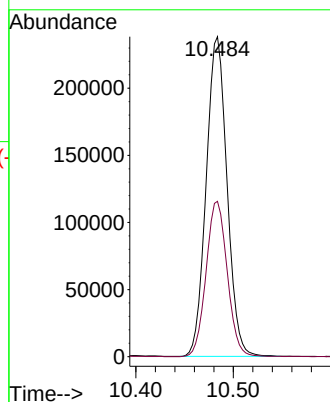
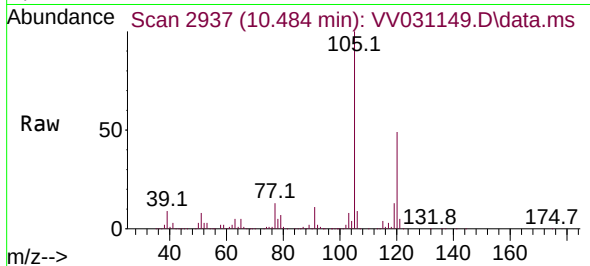




#62  
 1,3,5-Trimethylbenzene  
 Concen: 52.185 ug/L  
 RT: 10.484 min Scan# 2937  
 Delta R.T. 0.000 min  
 Lab File: VV031149.D  
 Acq: 20 May 2023 09:16

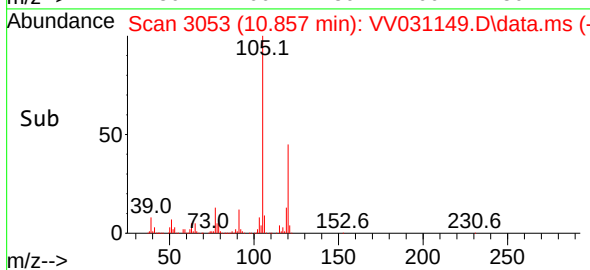
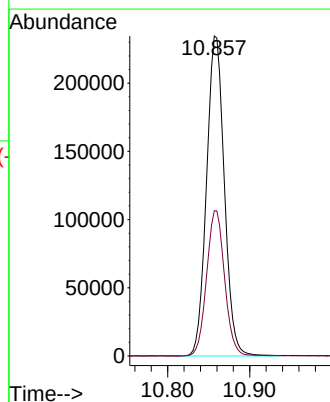
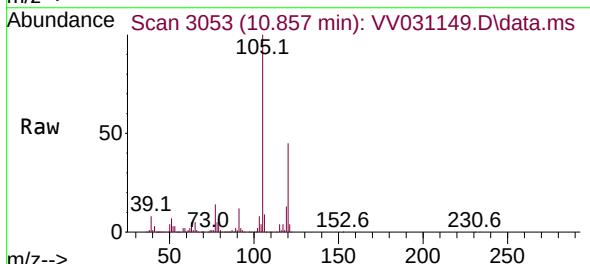
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050348

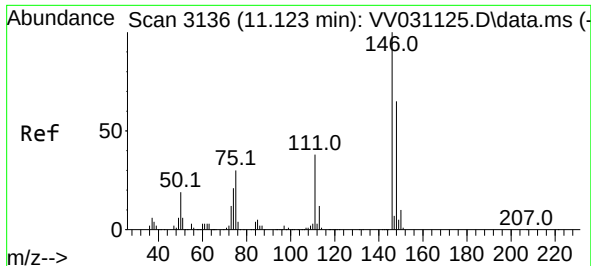
Tgt Ion:105 Resp: 353894  
 Ion Ratio Lower Upper  
 105 100  
 120 49.4 40.5 60.7



#63  
 1,2,4-Trimethylbenzene  
 Concen: 53.276 ug/L  
 RT: 10.857 min Scan# 3053  
 Delta R.T. 0.000 min  
 Lab File: VV031149.D  
 Acq: 20 May 2023 09:16

Tgt Ion:105 Resp: 353260  
 Ion Ratio Lower Upper  
 105 100  
 120 45.9 37.5 56.3

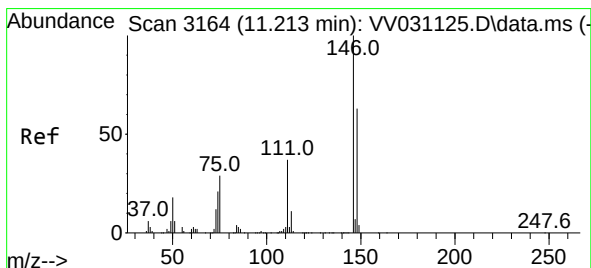
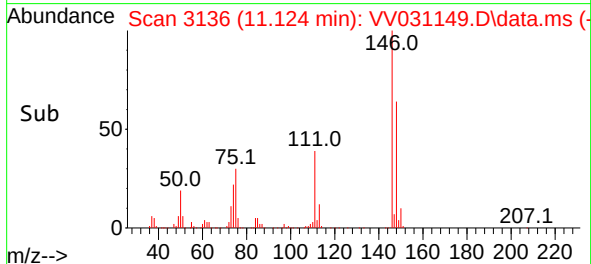
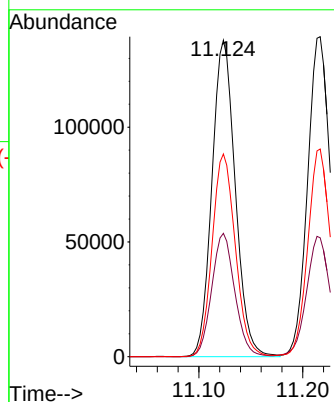
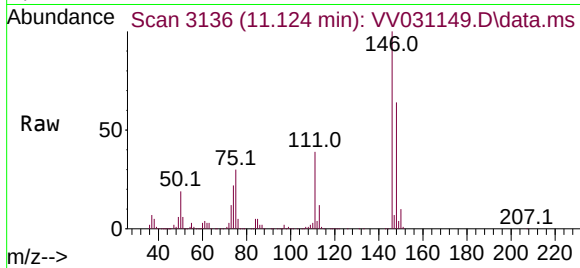




#64  
1,3-Dichlorobenzene  
Concen: 50.914 ug/L  
RT: 11.124 min Scan# 3136  
Delta R.T. 0.000 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

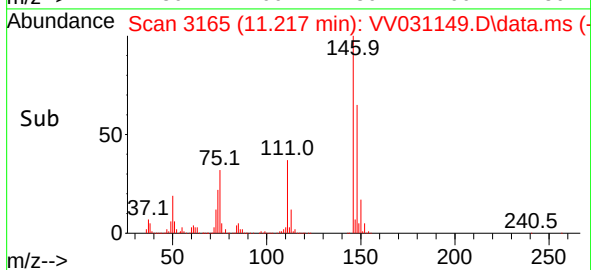
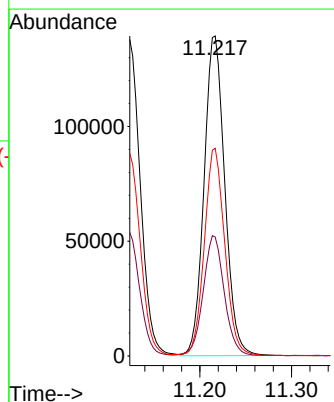
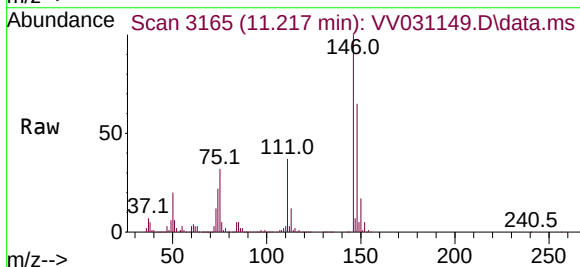
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050348

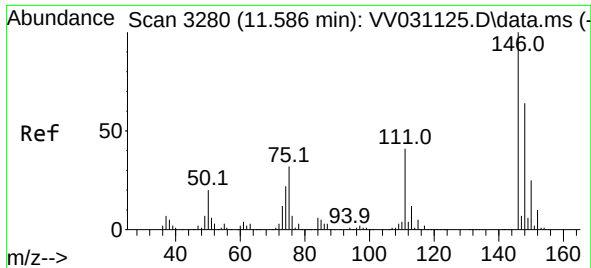
Tgt Ion:146 Resp: 215229  
Ion Ratio Lower Upper  
146 100  
111 39.0 27.2 50.4  
148 64.1 44.4 82.5



#65  
1,4-Dichlorobenzene  
Concen: 49.735 ug/L  
RT: 11.217 min Scan# 3165  
Delta R.T. 0.003 min  
Lab File: VV031149.D  
Acq: 20 May 2023 09:16

Tgt Ion:146 Resp: 218726  
Ion Ratio Lower Upper  
146 100  
111 37.1 25.5 47.3  
148 64.9 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 51.495 ug/L

RT: 11.587 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050348

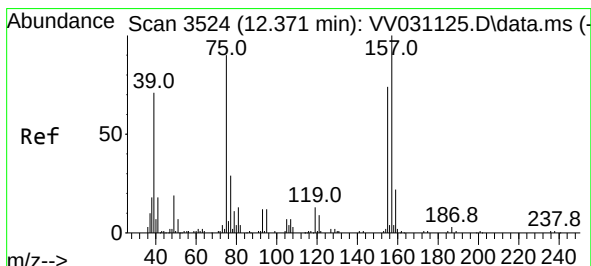
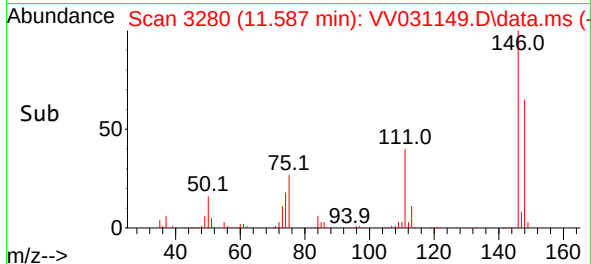
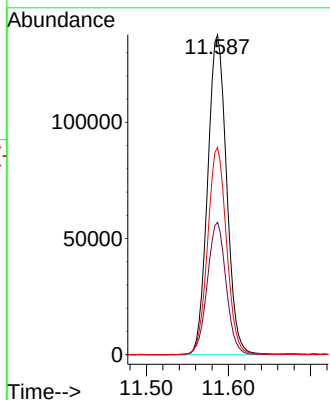
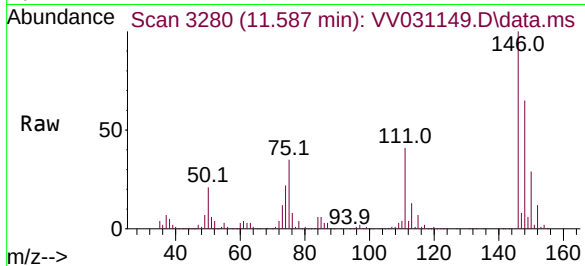
Tgt Ion:146 Resp: 220878

Ion Ratio Lower Upper

146 100

111 41.3 31.4 47.2

148 64.8 50.2 75.4



#68

1,2-Dibromo-3-chloropropane

Concen: 49.274 ug/L

RT: 12.371 min Scan# 3524

Delta R.T. 0.000 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

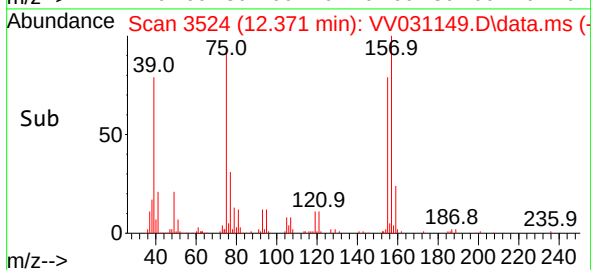
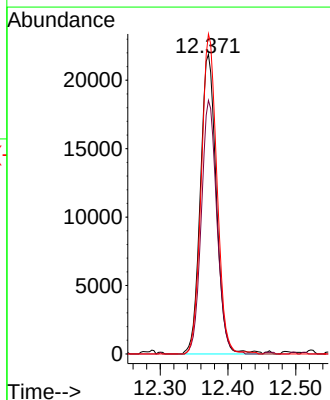
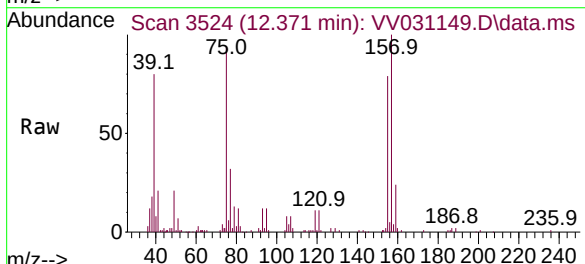
Tgt Ion: 75 Resp: 35895

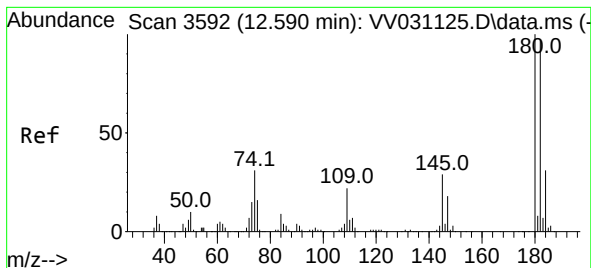
Ion Ratio Lower Upper

75 100

155 84.6 70.9 106.3

157 106.8 88.1 132.1





#69

1,3,5-Trichlorobenzene

Concen: 47.217 ug/L

RT: 12.590 min Scan# 3592

Delta R.T. 0.000 min

Lab File: VV031149.D

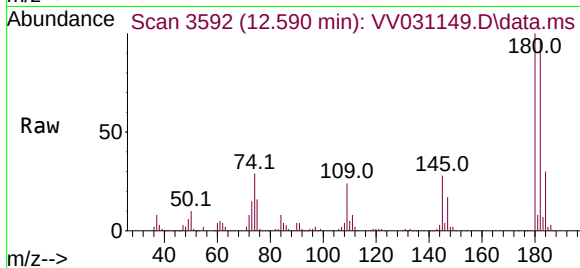
Acq: 20 May 2023 09:16

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050348



Tgt Ion:180 Resp: 154299

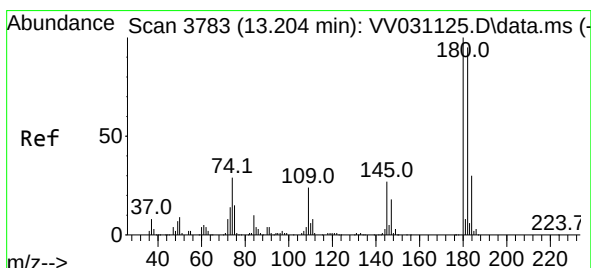
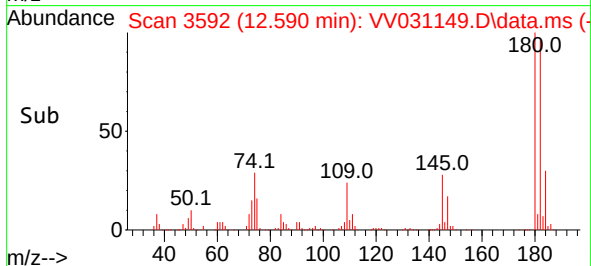
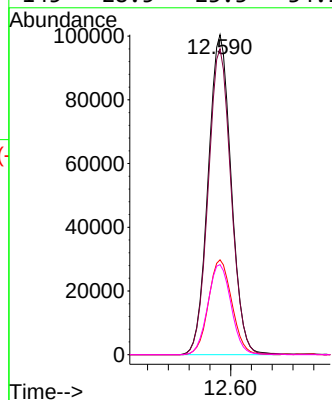
Ion Ratio Lower Upper

180 100

182 94.9 76.6 115.0

184 30.2 24.6 37.0

145 28.5 23.3 34.9



#70

1,2,4-trichlorobenzene

Concen: 47.353 ug/L

RT: 13.207 min Scan# 3784

Delta R.T. 0.003 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

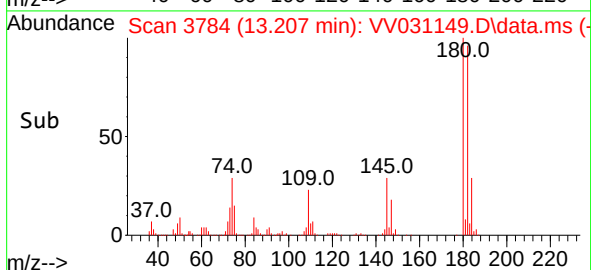
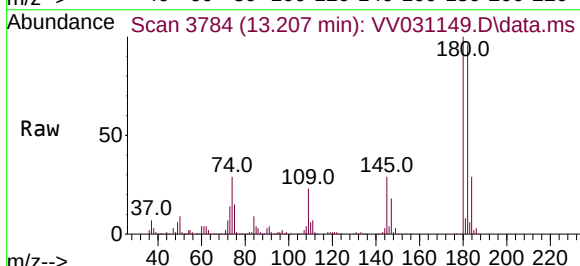
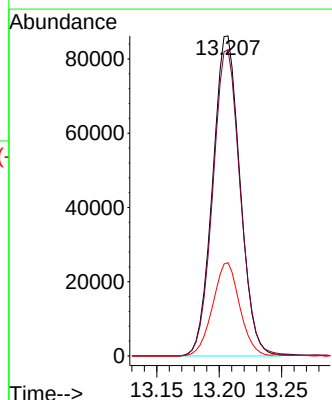
Tgt Ion:180 Resp: 131692

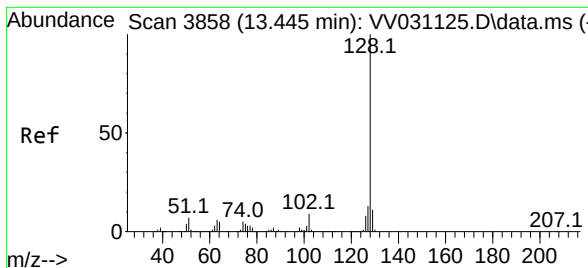
Ion Ratio Lower Upper

180 100

182 96.3 75.4 113.2

145 28.8 23.1 34.7





#71

Naphthalene

Concen: 48.182 ug/L

RT: 13.445 min Scan# 3858

Delta R.T. 0.000 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050348

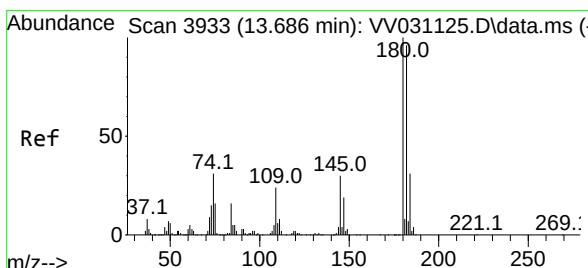
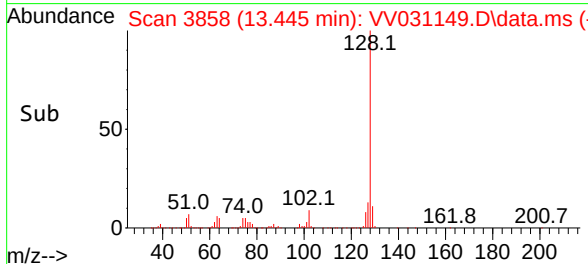
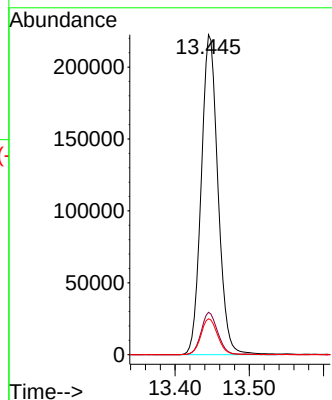
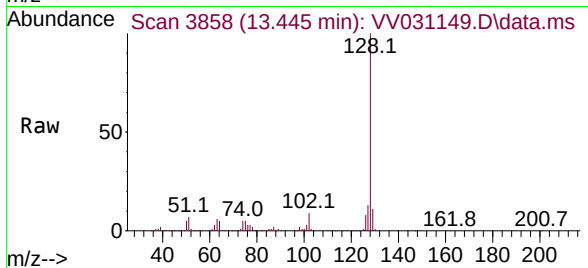
Tgt Ion:128 Resp: 348058

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

129 11.2 8.8 13.2



#72

1,2,3-Trichlorobenzene

Concen: 49.157 ug/L

RT: 13.689 min Scan# 3934

Delta R.T. 0.003 min

Lab File: VV031149.D

Acq: 20 May 2023 09:16

Tgt Ion:180 Resp: 136610

Ion Ratio Lower Upper

180 100

182 96.2 75.4 113.0

145 30.6 24.2 36.4

