

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW011823\  
 Data File : VW029891.D  
 Acq On : 18 Jan 2023 11:12  
 Operator : SY/MD  
 Sample : VSTD05004  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050204

Quant Time: Jan 19 00:25:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM011823WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jan 19 00:23:54 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Difluorobenzene        | 5.609  | 114  | 460254   | 50.000  | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 8.844  | 117  | 449999   | 50.000  | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.236 | 152  | 281871   | 50.000  | ug/L  | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 4) Vinyl Chloride-d3          | 1.304  | 65   | 166118   | 56.375  | ug/L  | 0.00     |
| 7) Chloroethane-d5            | 1.561  | 69   | 137856   | 60.416  | ug/L  | 0.00     |
| 11) 1,1-Dichloroethene-d2     | 2.105  | 63   | 284315   | 60.934  | ug/L  | 0.00     |
| 21) 2-Butanone-d5             | 3.867  | 46   | 197314   | 111.157 | ug/L  | 0.00     |
| 24) Chloroform-d              | 4.339  | 84   | 305738   | 55.715  | ug/L  | 0.00     |
| 26) 1,2-Dichloroethane-d4     | 5.021  | 65   | 171104   | 54.873  | ug/L  | 0.00     |
| 32) Benzene-d6                | 5.040  | 84   | 633165   | 52.354  | ug/L  | 0.00     |
| 36) 1,2-Dichloropropane-d6    | 6.060  | 67   | 190597   | 51.673  | ug/L  | 0.00     |
| 41) Toluene-d8                | 7.307  | 98   | 586471   | 51.715  | ug/L  | 0.00     |
| 43) trans-1,3-Dichloroprop... | 7.613  | 79   | 87214    | 47.801  | ug/L  | 0.00     |
| 47) 2-Hexanone-d5             | 8.082  | 63   | 174326   | 109.821 | ug/L  | 0.00     |
| 56) 1,1,2,2-Tetrachloroeth... | 10.204 | 84   | 293300   | 54.855  | ug/L  | 0.00     |
| 66) 1,2-Dichlorobenzene-d4    | 11.612 | 152  | 253748   | 47.483  | ug/L  | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.127  | 85   | 160000   | 45.562  | ug/L  | 100      |
| 3) Chloromethane              | 1.240  | 50   | 160136   | 40.604  | ug/L  | 100      |
| 5) Vinyl chloride             | 1.307  | 62   | 187727   | 53.379  | ug/L  | 100      |
| 6) Bromomethane               | 1.516  | 94   | 77625    | 56.320  | ug/L  | 100      |
| 8) Chloroethane               | 1.581  | 64   | 118105   | 58.969  | ug/L  | 100      |
| 9) Trichlorofluoromethane     | 1.751  | 101  | 248621   | 55.939  | ug/L  | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.114  | 101  | 148886   | 59.107  | ug/L  | 100      |
| 12) 1,1-Dichloroethene        | 2.114  | 96   | 144391   | 56.714  | ug/L  | 100      |
| 13) Acetone                   | 2.156  | 43   | 207077   | 156.719 | ug/L  | 100      |
| 14) Carbon disulfide          | 2.291  | 76   | 369254   | 46.116  | ug/L  | 100      |
| 15) Methyl Acetate            | 2.423  | 43   | 141184   | 54.152  | ug/L  | 100      |
| 16) Methylene chloride        | 2.500  | 84   | 171369   | 54.767  | ug/L  | 100      |
| 17) trans-1,2-Dichloroethene  | 2.754  | 96   | 152235   | 53.092  | ug/L  | 100      |
| 18) Methyl tert-butyl Ether   | 2.764  | 73   | 486212   | 54.934  | ug/L  | 100      |
| 19) 1,1-Dichloroethane        | 3.182  | 63   | 280332   | 56.186  | ug/L  | 100      |
| 20) cis-1,2-Dichloroethene    | 3.902  | 96   | 174703   | 54.965  | ug/L  | 100      |
| 22) 2-Butanone                | 3.950  | 43   | 233916   | 123.849 | ug/L  | 100      |
| 23) Bromochloromethane        | 4.236  | 128  | 91726    | 55.800  | ug/L  | 100      |
| 25) Chloroform                | 4.365  | 83   | 293607   | 56.794  | ug/L  | 100      |
| 27) 1,2-Dichloroethane        | 5.121  | 62   | 205687   | 56.373  | ug/L  | 100      |
| 29) Cyclohexane               | 4.671  | 56   | 229440   | 47.726  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane     | 4.600  | 97   | 251516   | 51.082  | ug/L  | 100      |
| 31) Carbon tetrachloride      | 4.818  | 117  | 215131   | 50.409  | ug/L  | 100      |
| 33) Benzene                   | 5.092  | 78   | 670655   | 52.439  | ug/L  | 100      |
| 34) Trichloroethene           | 5.905  | 95   | 161891   | 50.890  | ug/L  | 100      |
| 35) Methylcyclohexane         | 6.124  | 83   | 270631   | 50.288  | ug/L  | 100      |
| 37) 1,2-Dichloropropane       | 6.166  | 63   | 171684   | 55.086  | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.500  | 83   | 220957   | 51.921  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.018  | 75   | 242346   | 48.801  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.220  | 43   | 397119   | 107.622 | ug/L  | 100      |
| 42) Toluene                   | 7.378  | 91   | 718984   | 52.348  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.641  | 75   | 226618   | 48.128  | ug/L  | 100      |

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 Operator : SY/MD  
 Sample : VSTD05004  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 4 Sample Multiplier: 1

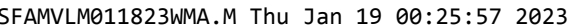
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050204

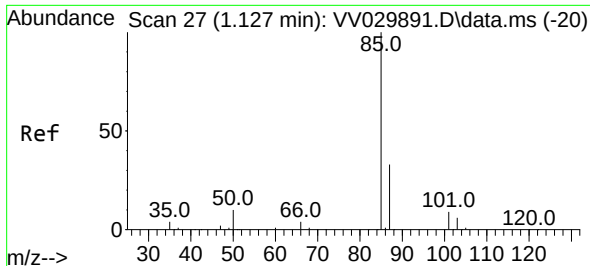
Quant Time: Jan 19 00:25:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM011823WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jan 19 00:23:54 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 45) 1,1,2-Trichloroethane     | 7.828  | 97   | 173626   | 54.065  | ug/L  | 100      |
| 46) Tetrachloroethene         | 7.966  | 164  | 133156   | 51.910  | ug/L  | 100      |
| 48) 2-Hexanone                | 8.133  | 43   | 327014   | 113.844 | ug/L  | 100      |
| 49) Dibromochloromethane      | 8.236  | 129  | 181077   | 51.744  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.342  | 107  | 174840   | 53.087  | ug/L  | 100      |
| 51) Chlorobenzene             | 8.873  | 112  | 470545   | 53.705  | ug/L  | 100      |
| 52) Ethylbenzene              | 9.002  | 91   | 763984   | 52.940  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.127  | 106  | 303139   | 53.014  | ug/L  | 100      |
| 54) o-Xylene                  | 9.532  | 106  | 296285   | 52.516  | ug/L  | 100      |
| 55) Styrene                   | 9.551  | 104  | 551929   | 55.620  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.230 | 83   | 287411   | 55.613  | ug/L  | 100      |
| 59) Bromoform                 | 9.719  | 173  | 129979   | 43.415  | ug/L  | 100      |
| 60) Isopropylbenzene          | 9.921  | 105  | 788223   | 48.553  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.262 | 75   | 212949   | 49.349  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 10.529 | 105  | 690577   | 48.121  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.902 | 105  | 693141   | 48.743  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.169 | 146  | 405252   | 50.330  | ug/L  | 100      |
| 65) 1,4-Dichlorobenzene       | 11.262 | 146  | 409462   | 49.973  | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene       | 11.632 | 146  | 406799   | 49.496  | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.413 | 75   | 57988    | 44.093  | ug/L  | 100      |
| 69) 1,3,5-Trichlorobenzene    | 12.632 | 180  | 310645   | 48.833  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.246 | 180  | 274990   | 48.701  | ug/L  | 100      |
| 71) Naphthalene               | 13.490 | 128  | 768221   | 57.420  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.728 | 180  | 273421   | 49.402  | ug/L  | 100      |

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

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Response via : Initial Calibration

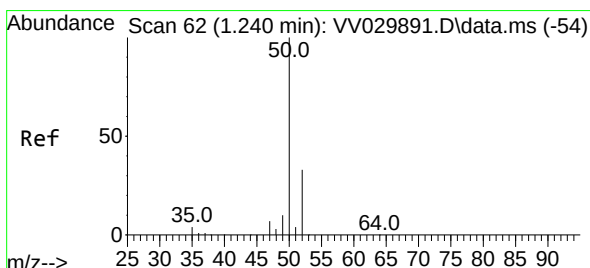
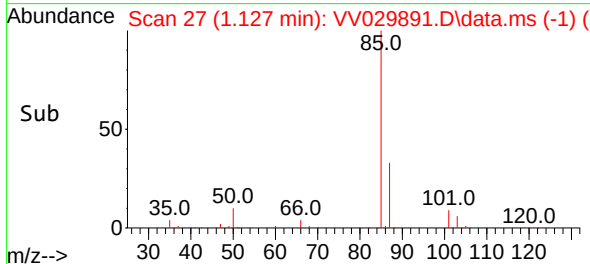
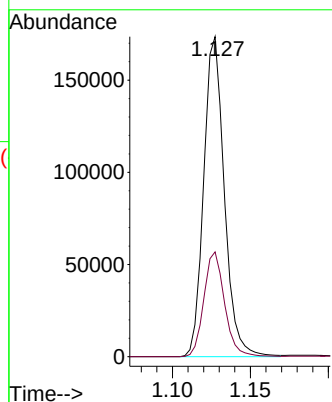
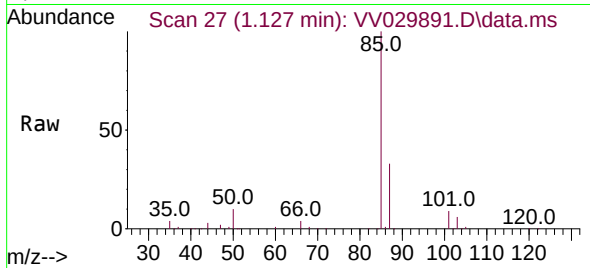




#2  
 Dichlorodifluoromethane  
 Concen: 45.562 ug/L  
 RT: 1.127 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VV029891.D  
 Acq: 18 Jan 2023 11:12

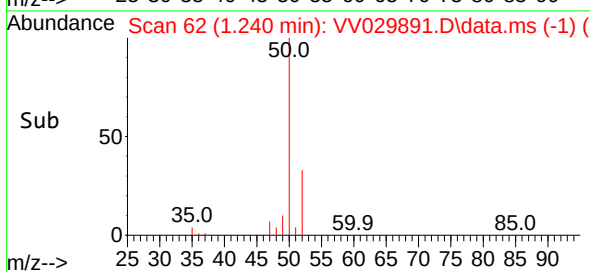
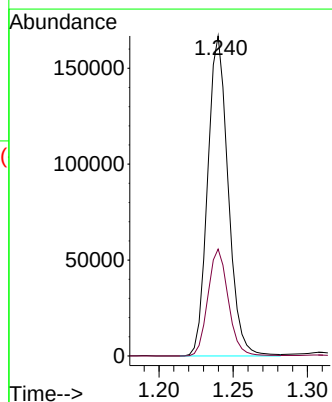
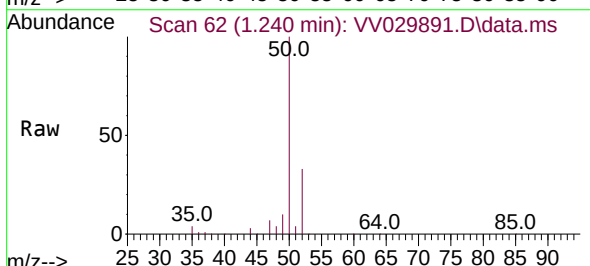
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050204

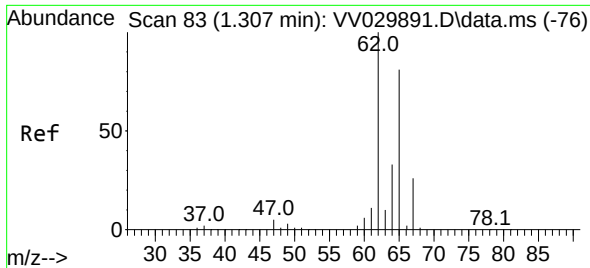
Tgt Ion: 85 Resp: 160000  
 Ion Ratio Lower Upper  
 85 100  
 87 32.8 26.2 39.4



#3  
 Chloromethane  
 Concen: 40.604 ug/L  
 RT: 1.240 min Scan# 62  
 Delta R.T. 0.000 min  
 Lab File: VV029891.D  
 Acq: 18 Jan 2023 11:12

Tgt Ion: 50 Resp: 160136  
 Ion Ratio Lower Upper  
 50 100  
 52 33.4 23.4 43.4

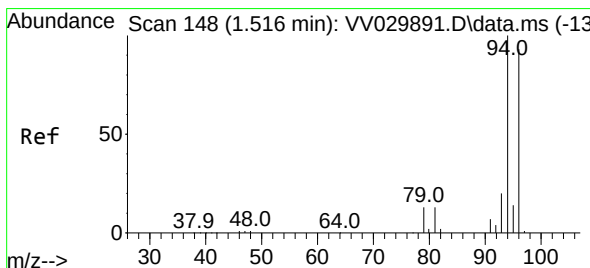
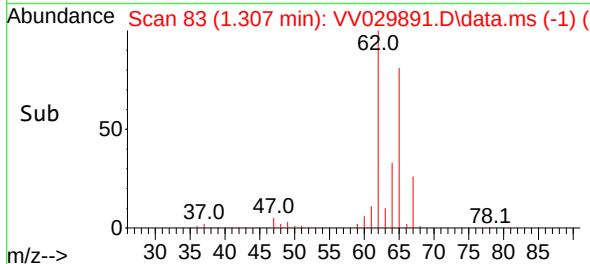
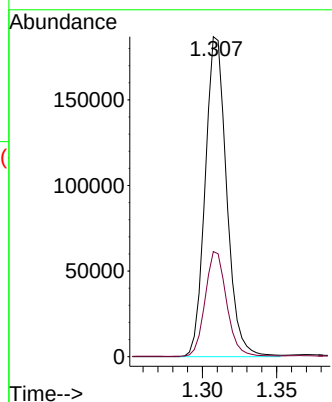
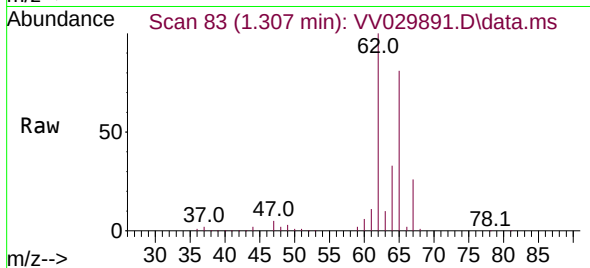




#5  
 Vinyl chloride  
 Concen: 53.379 ug/L  
 RT: 1.307 min Scan# 83  
 Delta R.T. 0.000 min  
 Lab File: VV029891.D  
 Acq: 18 Jan 2023 11:12

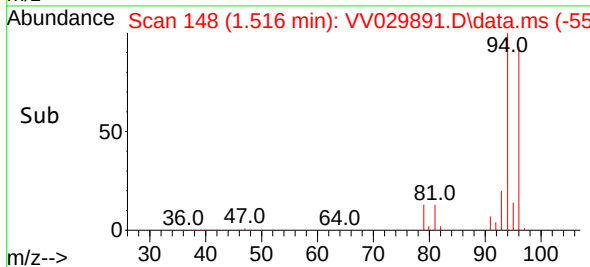
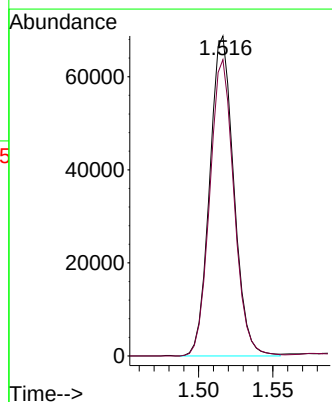
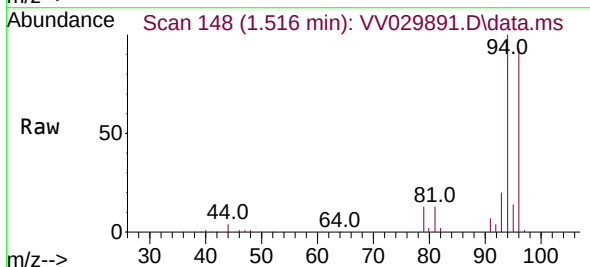
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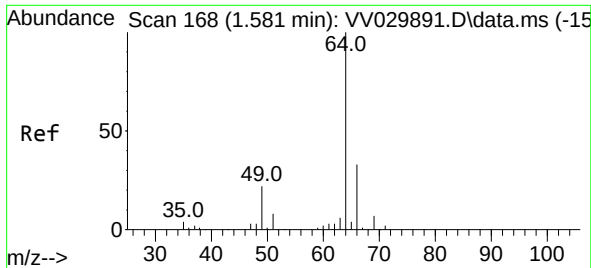
Tgt Ion: 62 Resp: 187727  
 Ion Ratio Lower Upper  
 62 100  
 64 32.9 23.0 42.8



#6  
 Bromomethane  
 Concen: 56.320 ug/L  
 RT: 1.516 min Scan# 148  
 Delta R.T. 0.000 min  
 Lab File: VV029891.D  
 Acq: 18 Jan 2023 11:12

Tgt Ion: 94 Resp: 77625  
 Ion Ratio Lower Upper  
 94 100  
 96 92.6 64.8 120.4

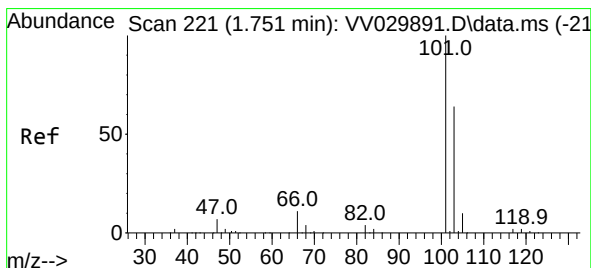
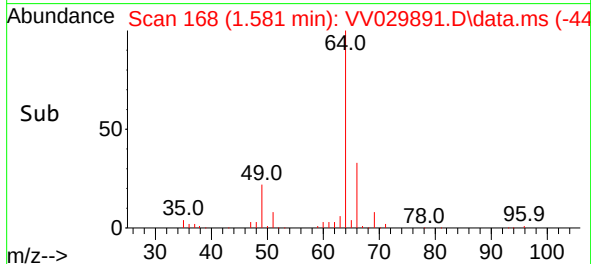
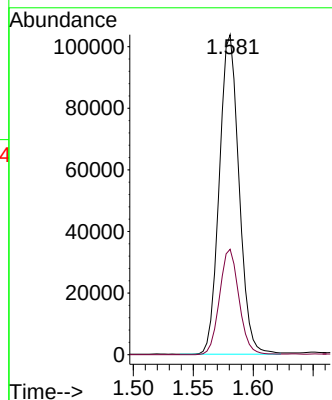
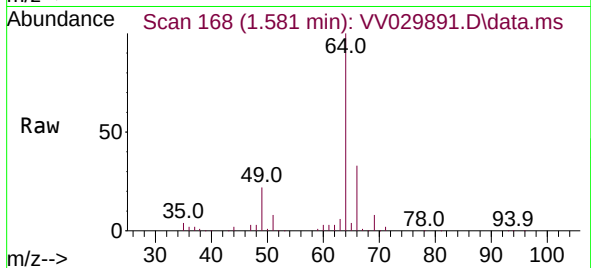




#8  
Chloroethane  
Concen: 58.969 ug/L  
RT: 1.581 min Scan# 168  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

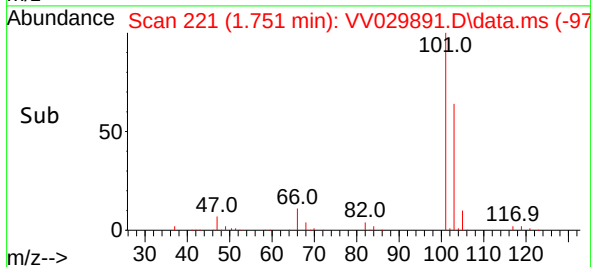
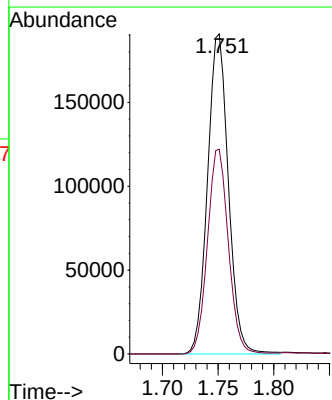
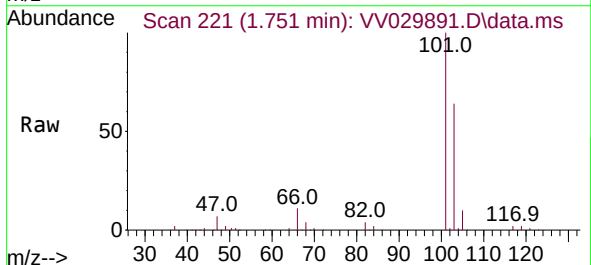
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050204

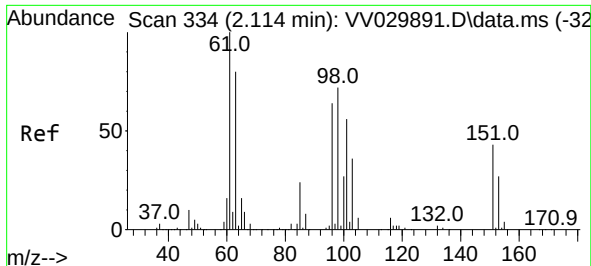
Tgt Ion: 64 Resp: 118105  
Ion Ratio Lower Upper  
64 100  
66 33.0 23.1 42.9



#9  
Trichlorofluoromethane  
Concen: 55.939 ug/L  
RT: 1.751 min Scan# 221  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

Tgt Ion:101 Resp: 248621  
Ion Ratio Lower Upper  
101 100  
103 64.1 51.3 76.9

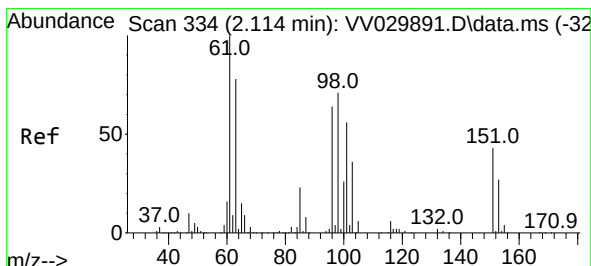
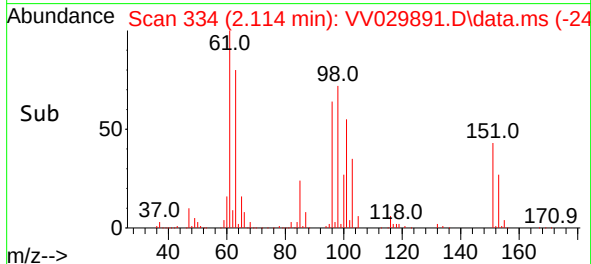
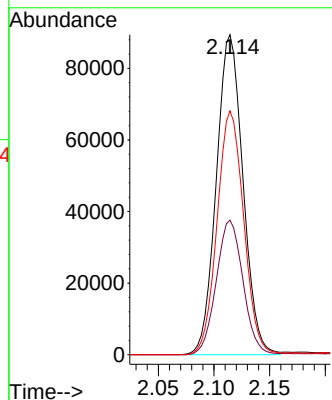
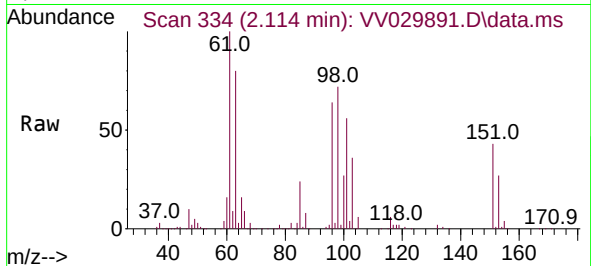




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 59.107 ug/L  
 RT: 2.114 min Scan# 334  
 Delta R.T. 0.000 min  
 Lab File: VV029891.D  
 Acq: 18 Jan 2023 11:12

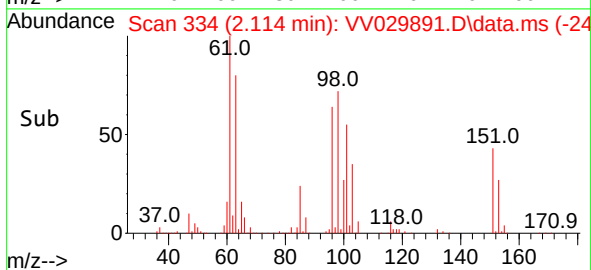
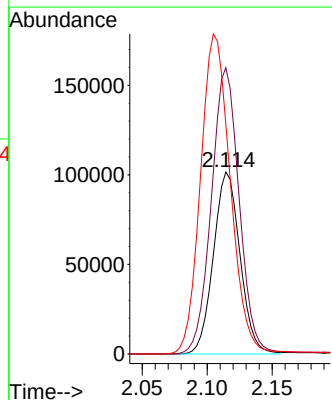
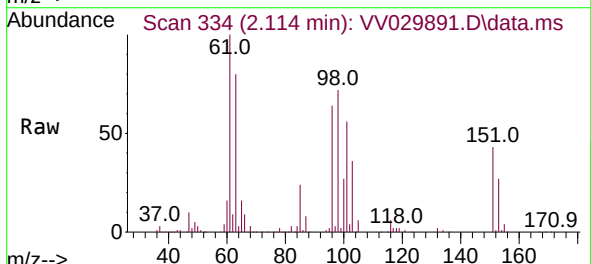
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050204

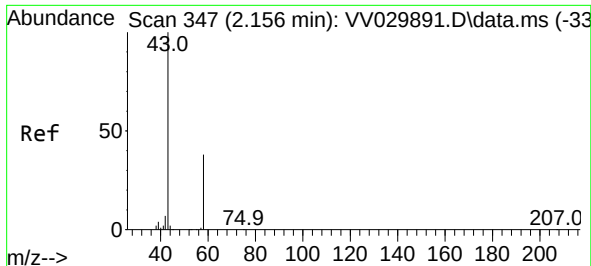
Tgt Ion:101 Resp: 148886  
 Ion Ratio Lower Upper  
 101 100  
 85 42.1 33.7 50.5  
 151 76.2 61.0 91.4



#12  
 1,1-Dichloroethene  
 Concen: 56.714 ug/L  
 RT: 2.114 min Scan# 334  
 Delta R.T. 0.000 min  
 Lab File: VV029891.D  
 Acq: 18 Jan 2023 11:12

Tgt Ion: 96 Resp: 144391  
 Ion Ratio Lower Upper  
 96 100  
 61 157.4 110.2 204.6  
 63 126.6 88.6 164.6





#13

Acetone

Concen: 156.719 ug/L

RT: 2.156 min Scan# 347

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

Instrument :

MSVOA\_V

ClientSampleId :

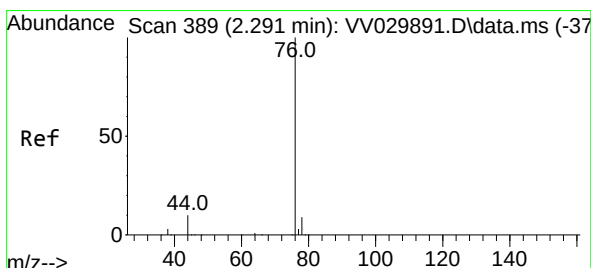
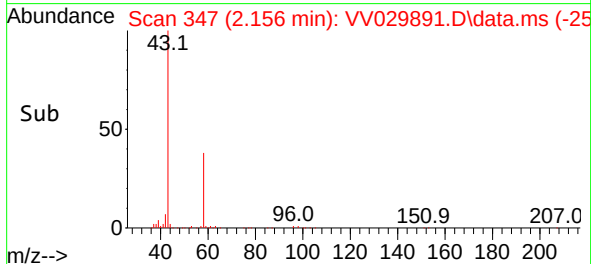
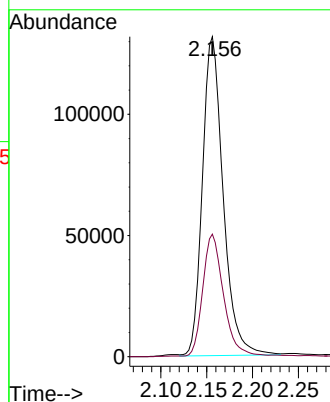
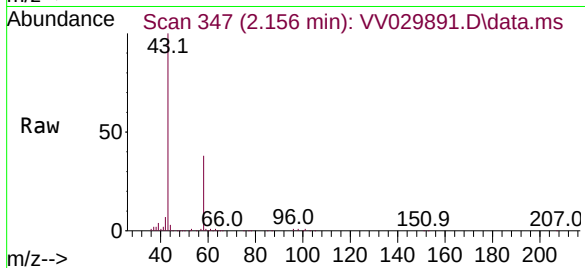
VSTD050204

Tgt Ion: 43 Resp: 207077

Ion Ratio Lower Upper

43 100

58 38.0 0.0 76.0



#14

Carbon disulfide

Concen: 46.116 ug/L

RT: 2.291 min Scan# 389

Delta R.T. 0.000 min

Lab File: VV029891.D

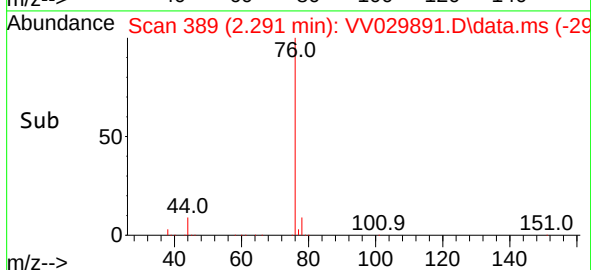
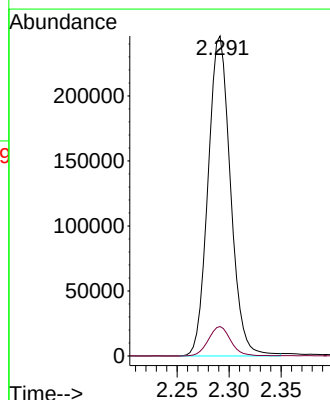
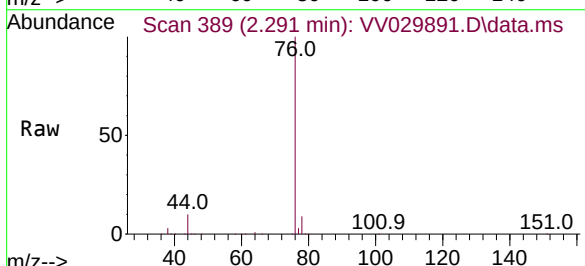
Acq: 18 Jan 2023 11:12

Tgt Ion: 76 Resp: 369254

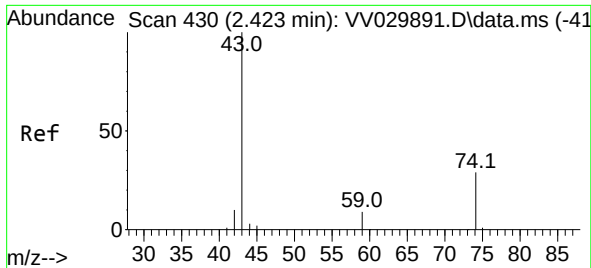
Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



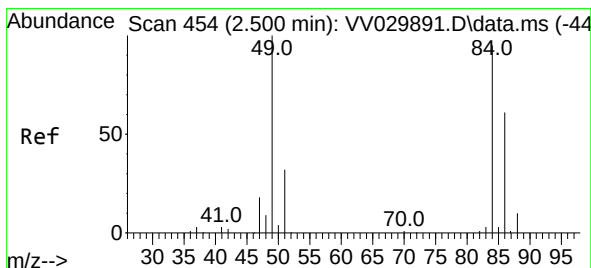
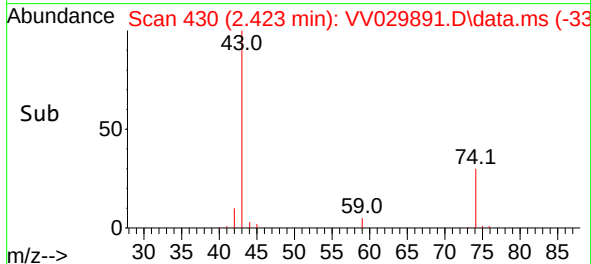
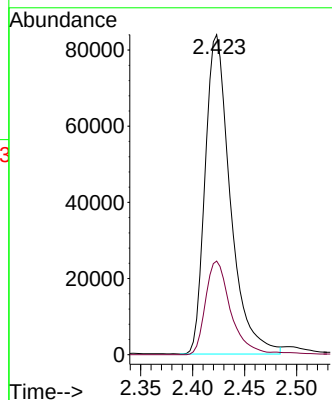
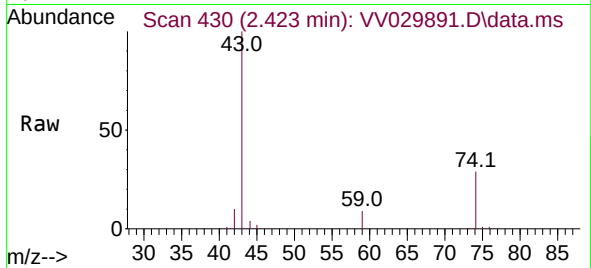




#15  
Methyl Acetate  
Concen: 54.152 ug/L  
RT: 2.423 min Scan# 411  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

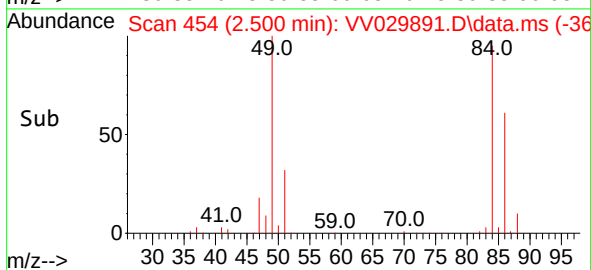
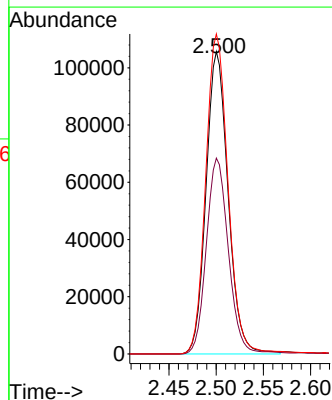
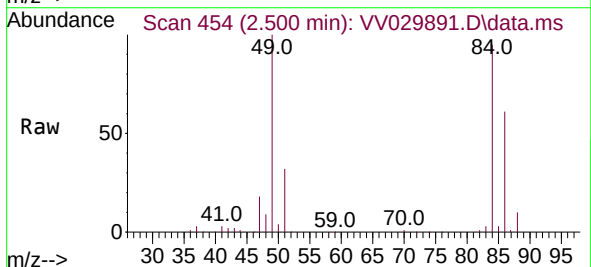
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050204

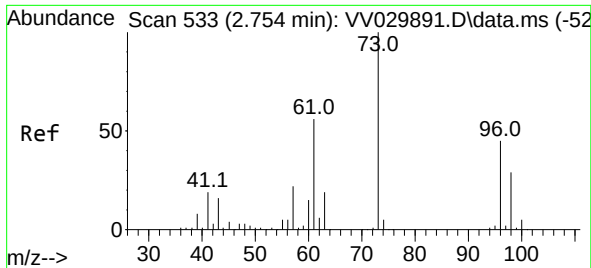
Tgt Ion: 43 Resp: 141184  
Ion Ratio Lower Upper  
43 100  
74 29.1 23.3 34.9



#16  
Methylene chloride  
Concen: 54.767 ug/L  
RT: 2.500 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

Tgt Ion: 84 Resp: 171369  
Ion Ratio Lower Upper  
84 100  
86 64.7 45.3 84.1  
49 105.8 74.1 137.5



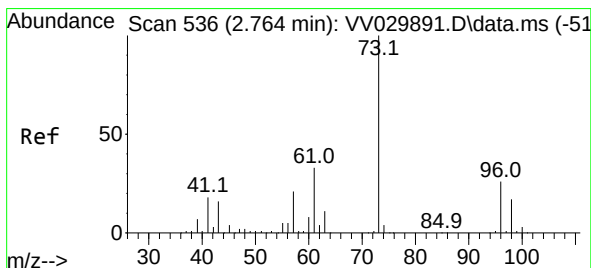
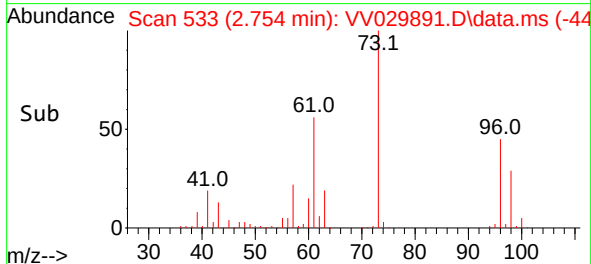
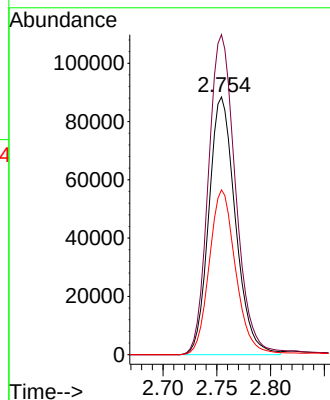
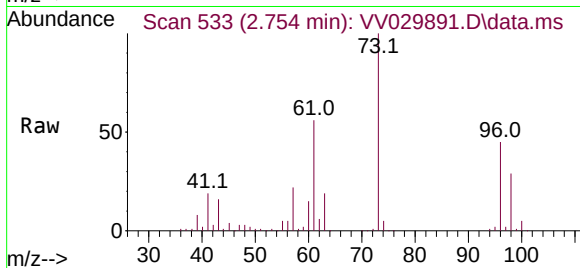


#17  
 trans-1,2-Dichloroethene  
 Concen: 53.092 ug/L  
 RT: 2.754 min Scan# 51  
 Delta R.T. 0.000 min  
 Lab File: VV029891.D  
 Acq: 18 Jan 2023 11:12

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050204

Tgt Ion: 96 Resp: 152235  

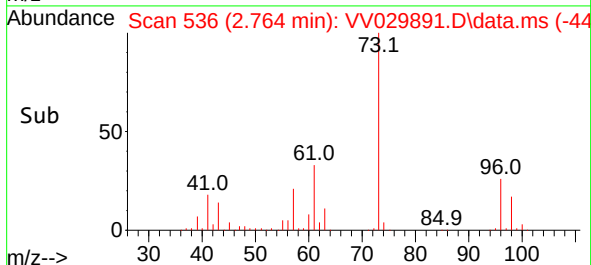
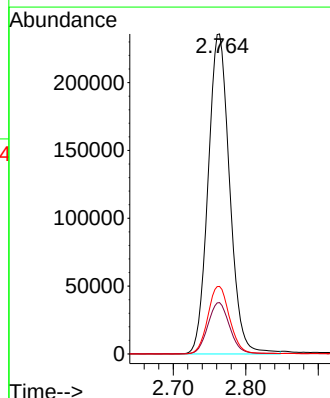
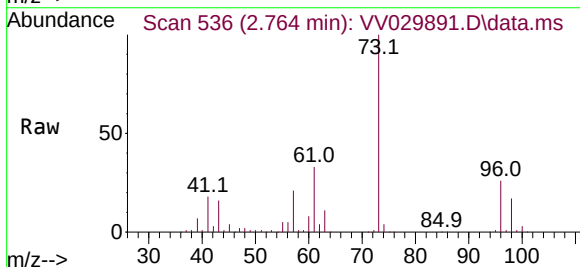
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 124.2 | 86.9  | 161.5 |
| 98  | 63.9  | 44.7  | 83.1  |

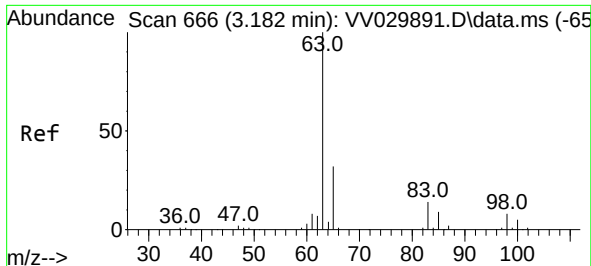


#18  
 Methyl tert-butyl Ether  
 Concen: 54.934 ug/L  
 RT: 2.764 min Scan# 536  
 Delta R.T. 0.000 min  
 Lab File: VV029891.D  
 Acq: 18 Jan 2023 11:12

Tgt Ion: 73 Resp: 486212  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 43  | 16.0  | 12.8  | 19.2  |
| 57  | 21.4  | 17.1  | 25.7  |





#19

1,1-Dichloroethane

Concen: 56.186 ug/L

RT: 3.182 min Scan# 6

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050204

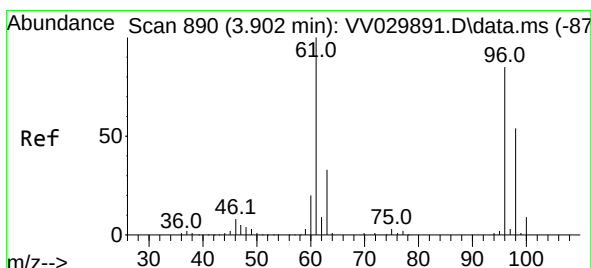
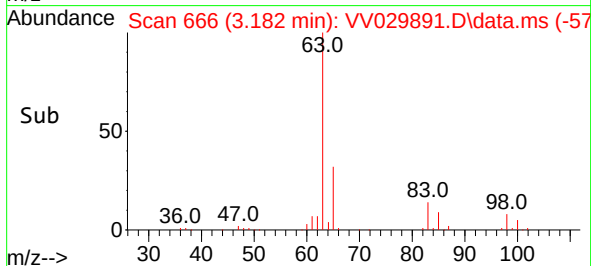
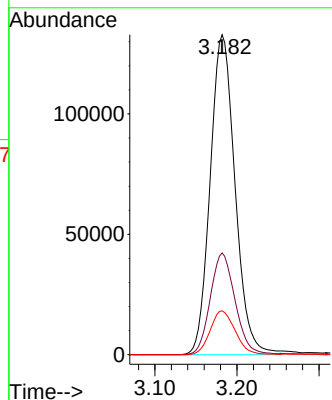
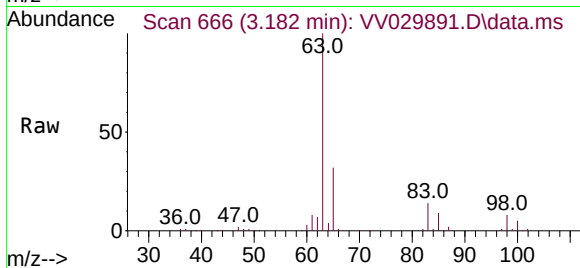
Tgt Ion: 63 Resp: 280332

Ion Ratio Lower Upper

63 100

65 31.8 22.3 41.3

83 13.7 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 54.965 ug/L

RT: 3.902 min Scan# 890

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

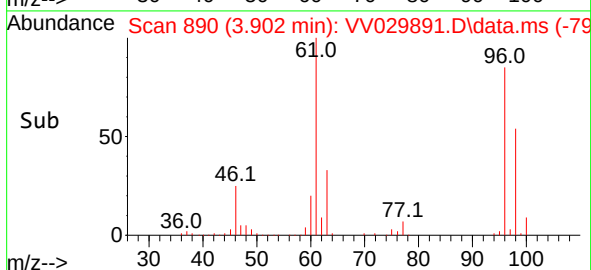
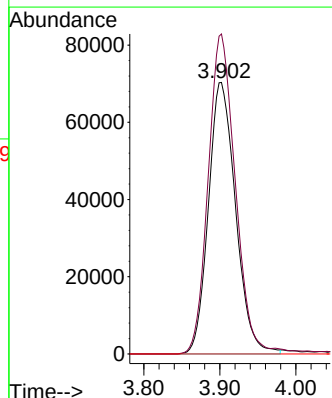
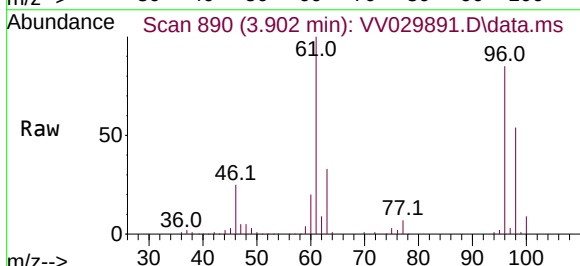
Tgt Ion: 96 Resp: 174703

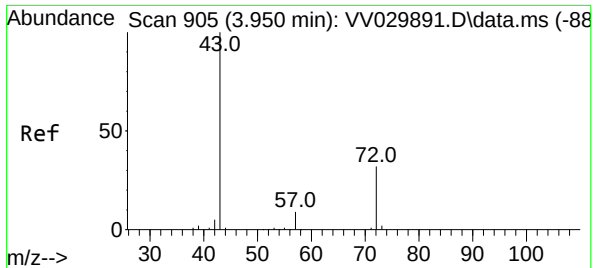
Ion Ratio Lower Upper

96 100

61 117.9 82.5 153.3

68 0.0 0.0 0.0

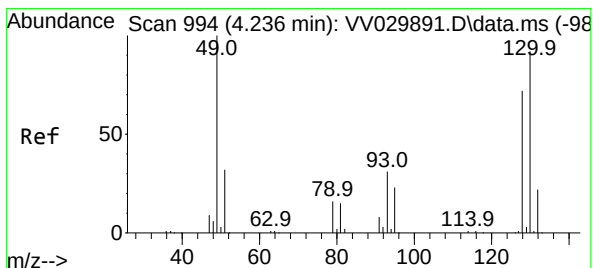
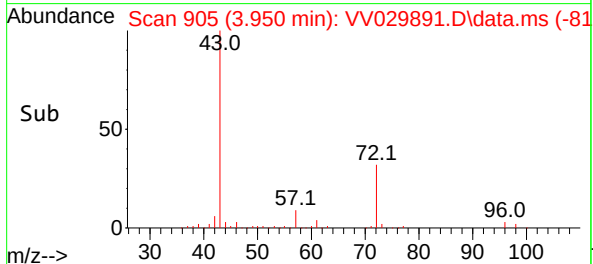
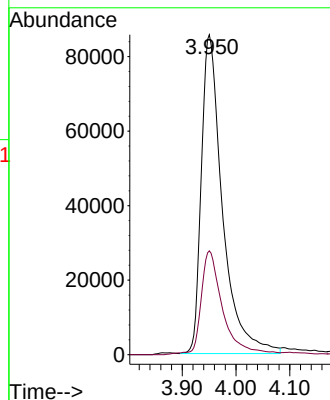
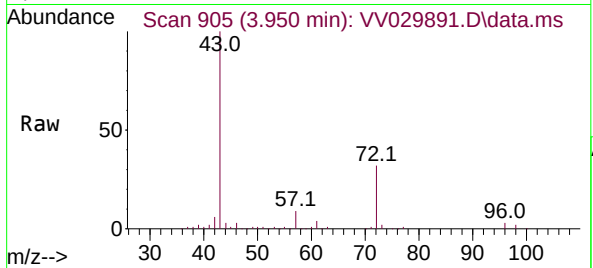




#22  
2-Butanone  
Concen: 123.849 ug/L  
RT: 3.950 min Scan# 905  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

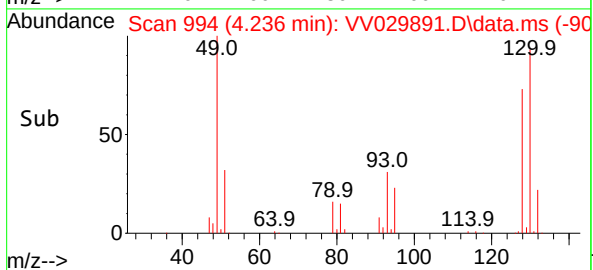
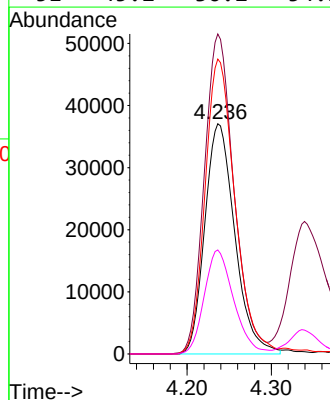
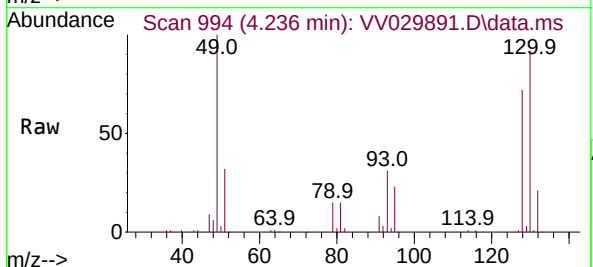
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050204

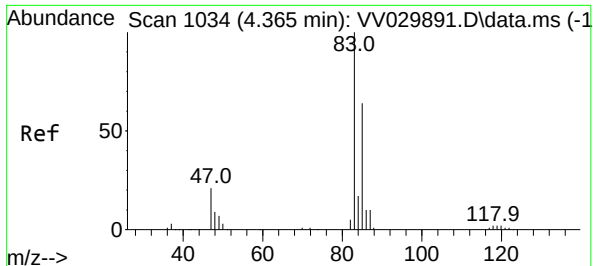
Tgt Ion: 43 Resp: 233916  
Ion Ratio Lower Upper  
43 100  
72 30.9 15.4 46.4



#23  
Bromochloromethane  
Concen: 55.800 ug/L  
RT: 4.236 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

Tgt Ion: 128 Resp: 91726  
Ion Ratio Lower Upper  
128 100  
49 139.0 97.3 180.7  
130 128.1 89.7 166.5  
51 45.2 36.2 54.2





#25

Chloroform

Concen: 56.794 ug/L

RT: 4.365 min Scan# 1034

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

Instrument :

MSVOA\_V

ClientSampleId :

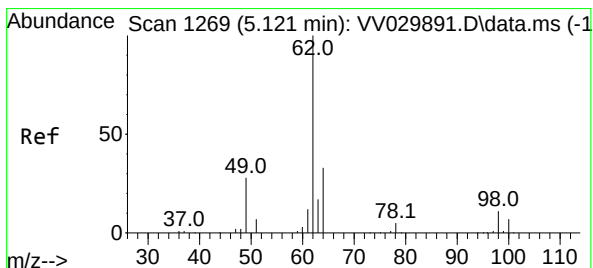
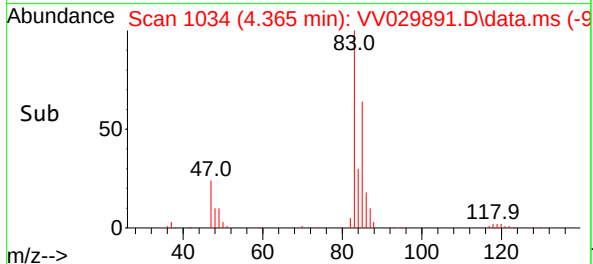
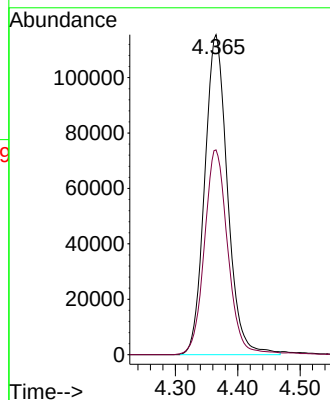
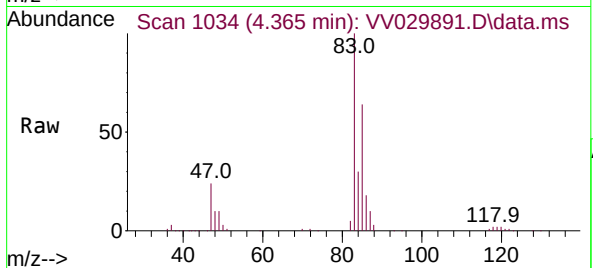
VSTD050204

Tgt Ion: 83 Resp: 293607

Ion Ratio Lower Upper

83 100

85 64.0 44.8 83.2



#27

1,2-Dichloroethane

Concen: 56.373 ug/L

RT: 5.121 min Scan# 1269

Delta R.T. 0.000 min

Lab File: VV029891.D

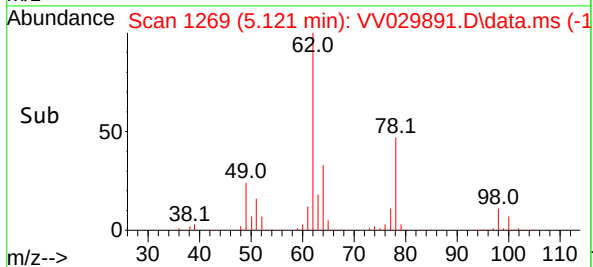
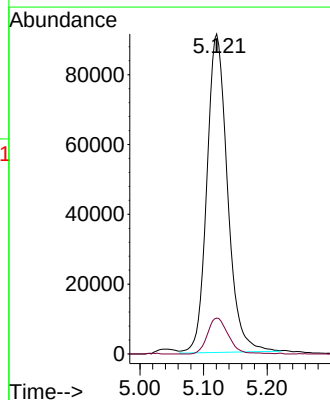
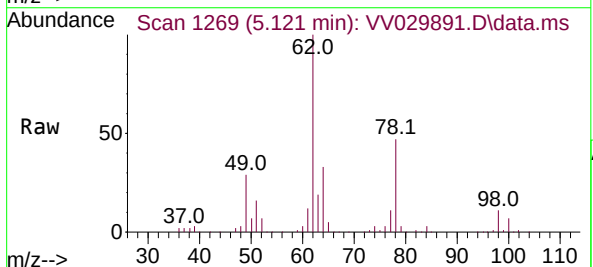
Acq: 18 Jan 2023 11:12

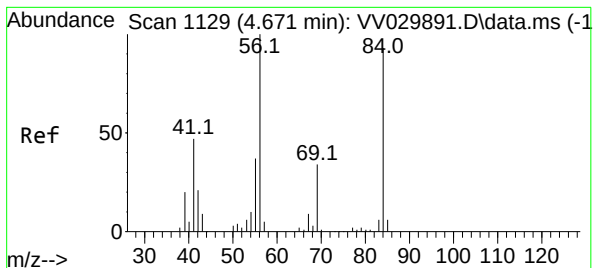
Tgt Ion: 62 Resp: 205687

Ion Ratio Lower Upper

62 100

98 11.2 9.0 13.4





#29

Cyclohexane

Concen: 47.726 ug/L

RT: 4.671 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050204

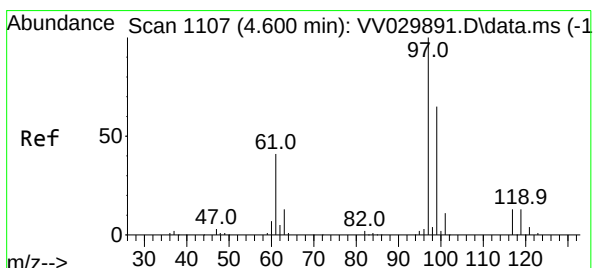
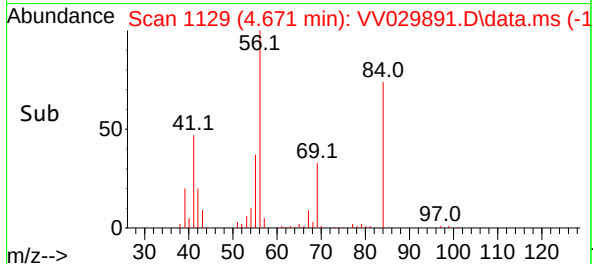
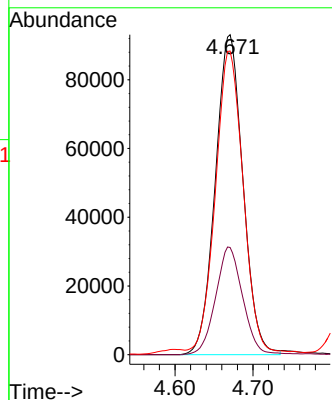
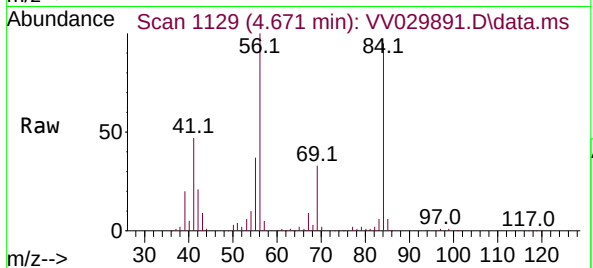
Tgt Ion: 56 Resp: 229440

Ion Ratio Lower Upper

56 100

69 32.8 26.2 39.4

84 93.4 74.7 112.1



#30

1,1,1-Trichloroethane

Concen: 51.082 ug/L

RT: 4.600 min Scan# 1107

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

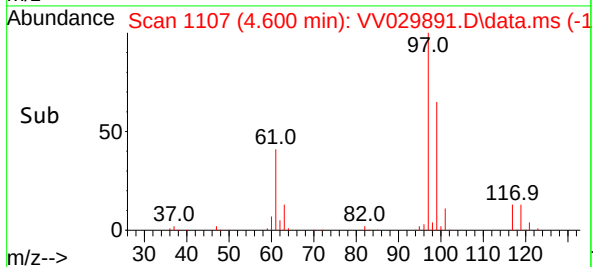
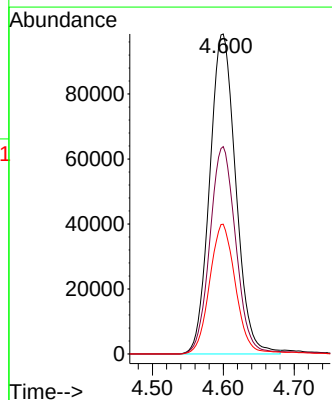
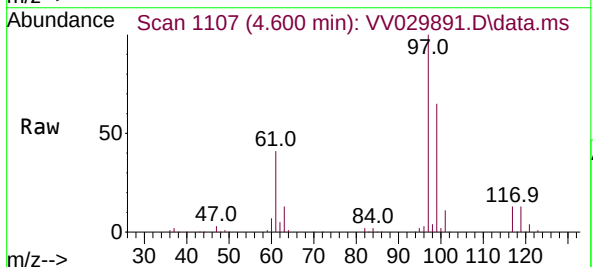
Tgt Ion: 97 Resp: 251516

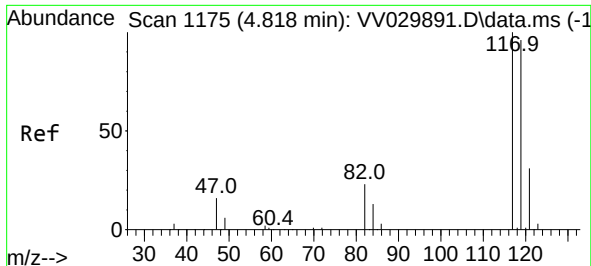
Ion Ratio Lower Upper

97 100

99 64.9 51.9 77.9

61 40.2 32.2 48.2

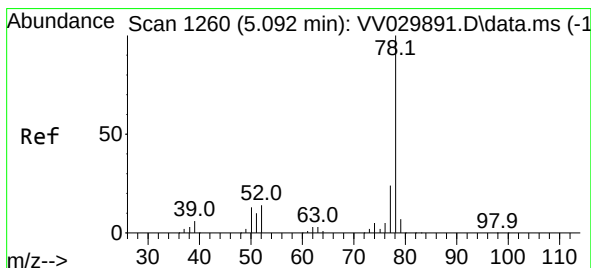
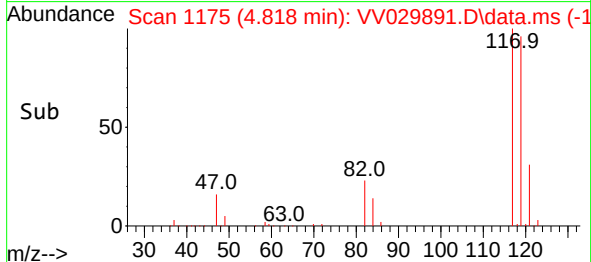
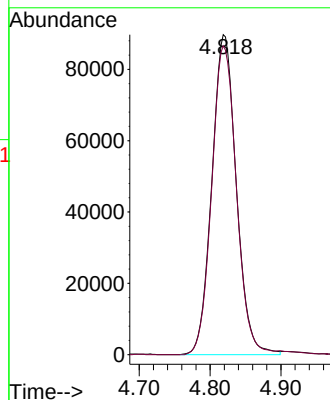
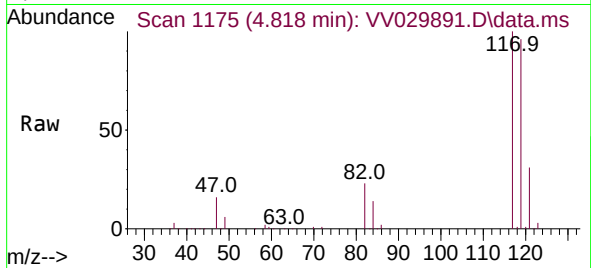




#31  
Carbon tetrachloride  
Concen: 50.409 ug/L  
RT: 4.818 min Scan# 1175  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

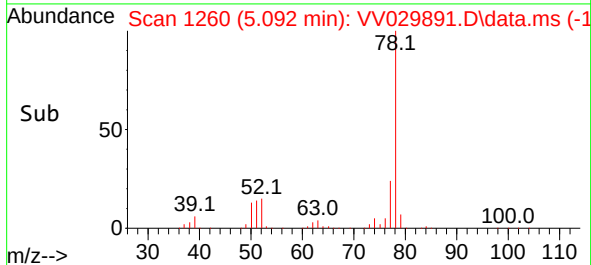
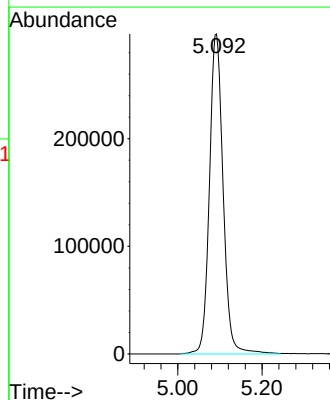
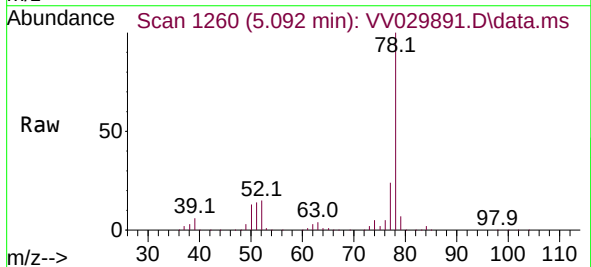
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050204

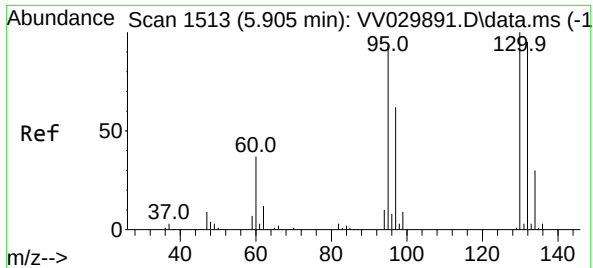
Tgt Ion:117 Resp: 215131  
Ion Ratio Lower Upper  
117 100  
119 97.4 77.9 116.9



#33  
Benzene  
Concen: 52.439 ug/L  
RT: 5.092 min Scan# 1260  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

Tgt Ion: 78 Resp: 670655

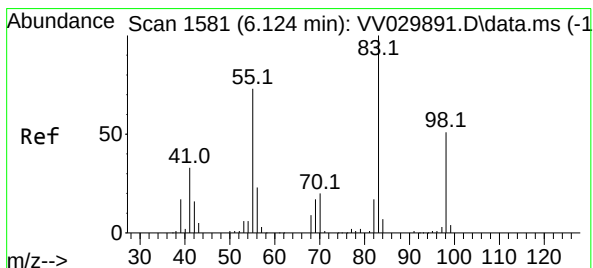
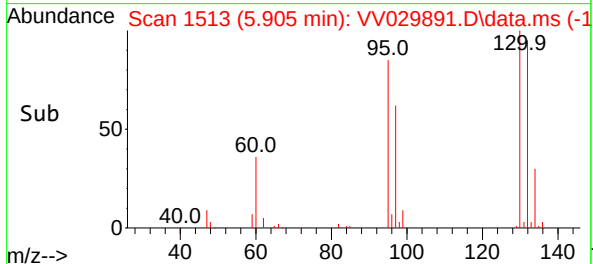
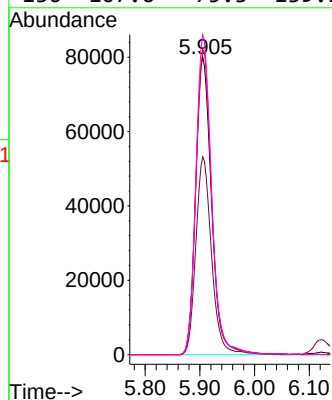
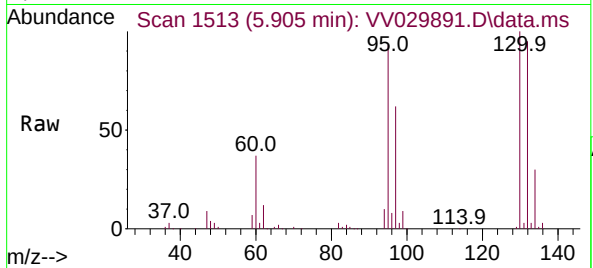




#34  
Trichloroethene  
Concen: 50.890 ug/L  
RT: 5.905 min Scan# 1513  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

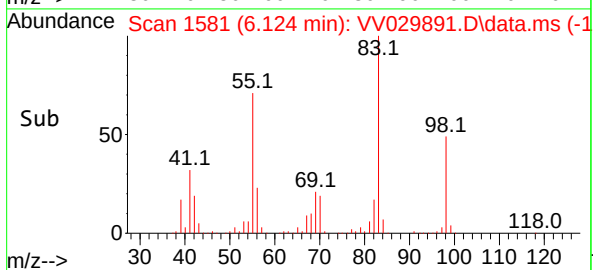
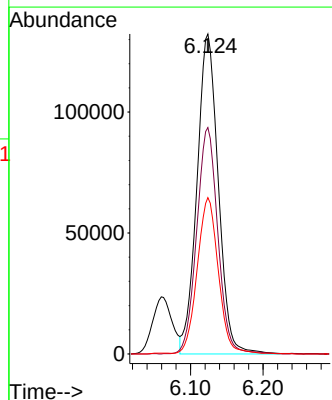
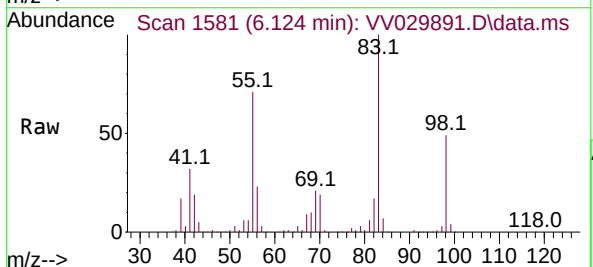
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050204

Tgt Ion: 95 Resp: 161891  
Ion Ratio Lower Upper  
95 100  
97 66.5 46.5 86.5  
132 102.6 71.8 133.4  
130 107.6 75.3 139.9

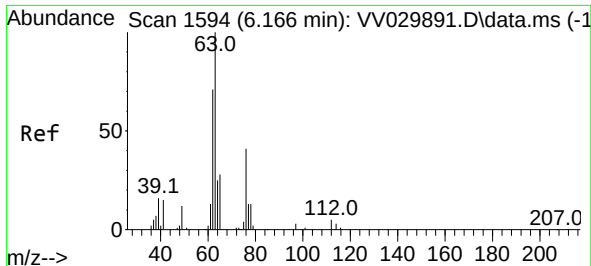


#35  
Methylcyclohexane  
Concen: 50.288 ug/L  
RT: 6.124 min Scan# 1581  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

Tgt Ion: 83 Resp: 270631  
Ion Ratio Lower Upper  
83 100  
55 70.2 56.2 84.2  
98 48.1 38.5 57.7







#37

1,2-Dichloropropane

Concen: 55.086 ug/L

RT: 6.166 min Scan# 1594

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

Instrument :

MSVOA\_V

ClientSampleId :

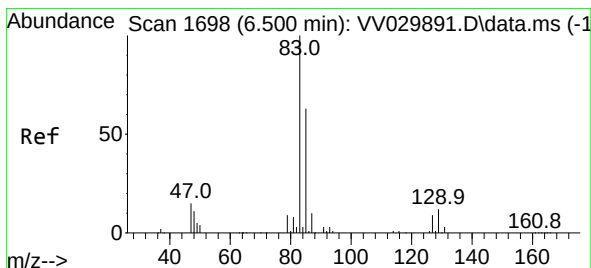
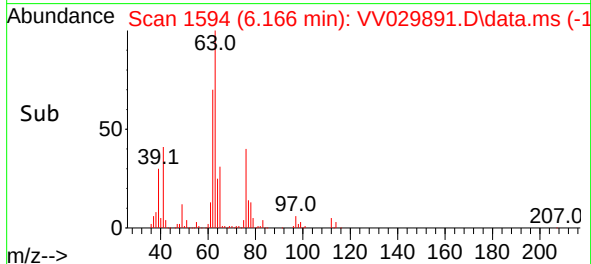
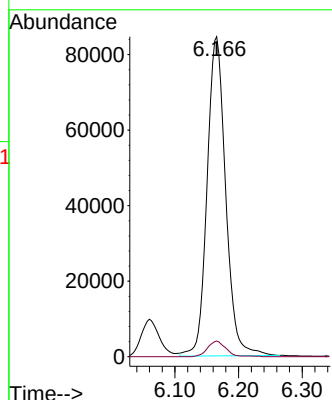
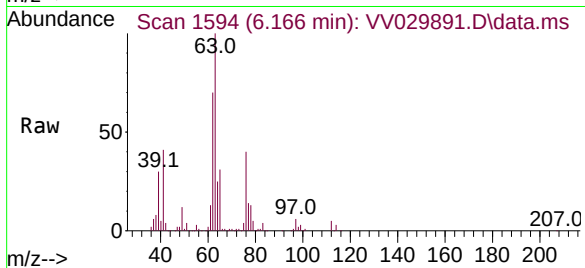
VSTD050204

Tgt Ion: 63 Resp: 171684

Ion Ratio Lower Upper

63 100

112 4.7 3.8 5.6



#38

Bromodichloromethane

Concen: 51.921 ug/L

RT: 6.500 min Scan# 1698

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

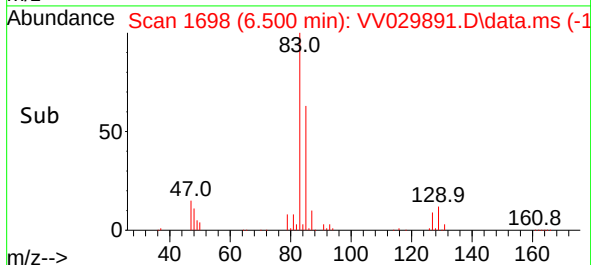
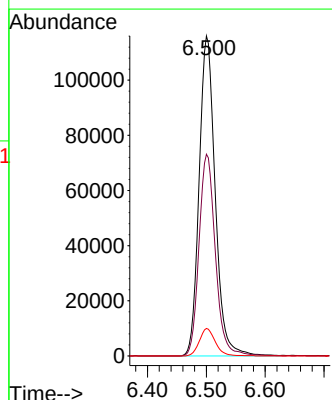
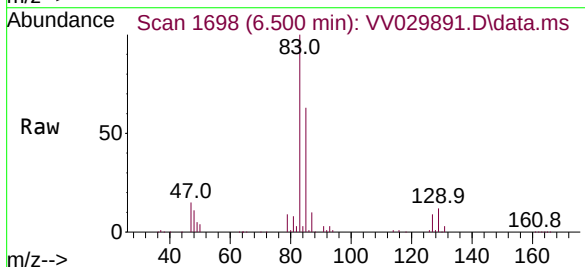
Tgt Ion: 83 Resp: 220957

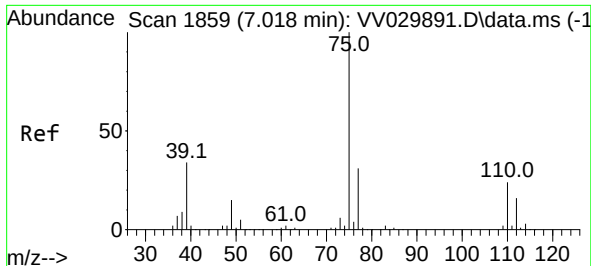
Ion Ratio Lower Upper

83 100

85 63.1 44.2 82.0

127 8.6 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 48.801 ug/L

RT: 7.018 min Scan# 1859

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

Instrument :

MSVOA\_V

ClientSampleId :

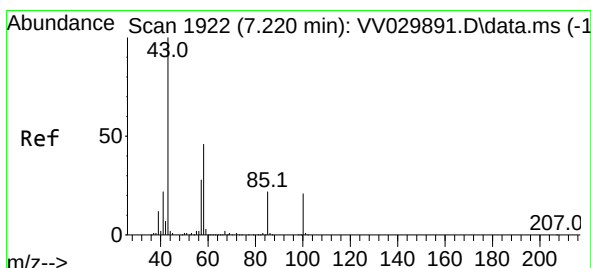
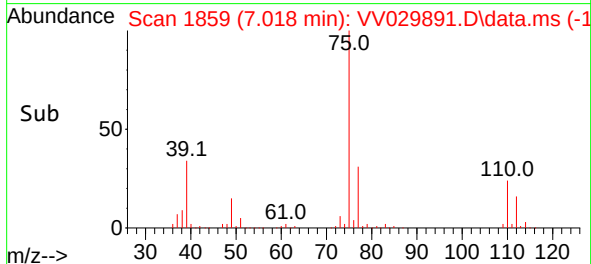
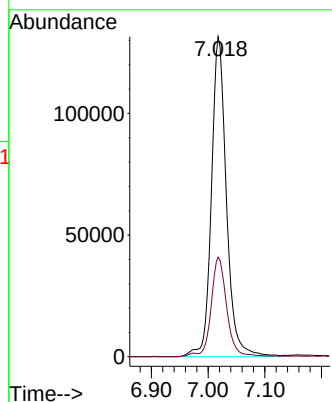
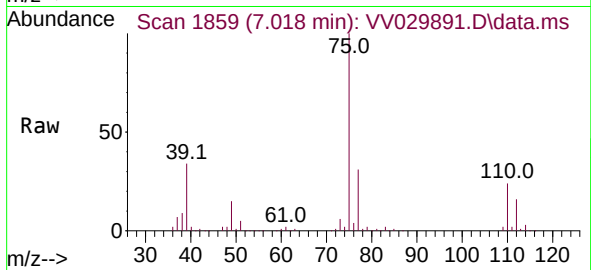
VSTD050204

Tgt Ion: 75 Resp: 242346

Ion Ratio Lower Upper

75 100

77 31.1 21.8 40.4



#40

4-Methyl-2-pentanone

Concen: 107.622 ug/L

RT: 7.220 min Scan# 1922

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

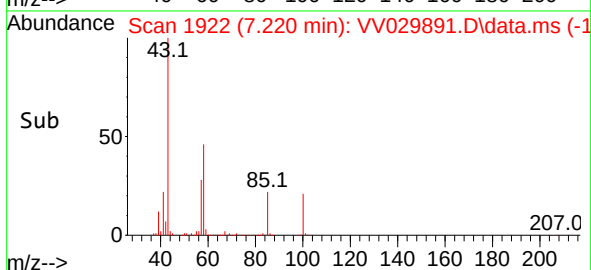
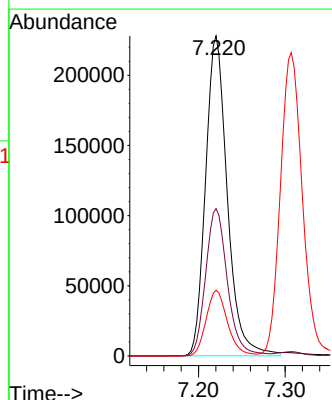
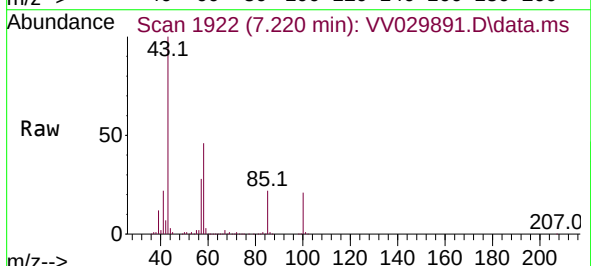
Tgt Ion: 43 Resp: 397119

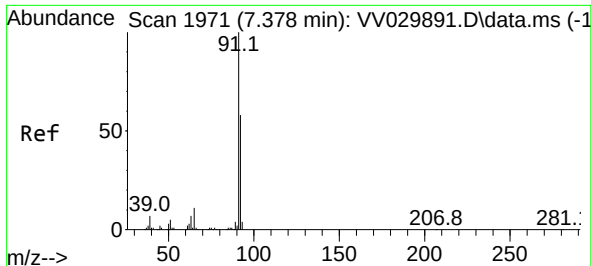
Ion Ratio Lower Upper

43 100

58 46.3 37.0 55.6

100 20.2 16.2 24.2

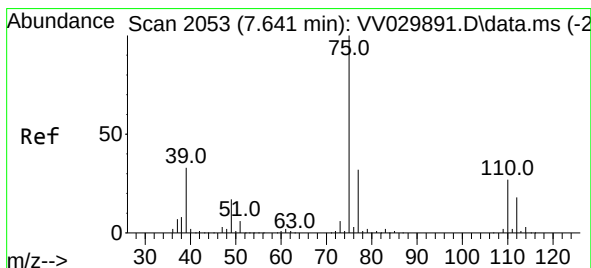
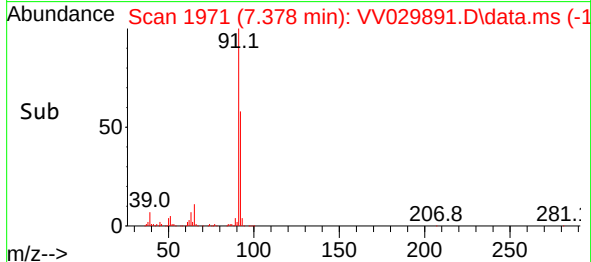
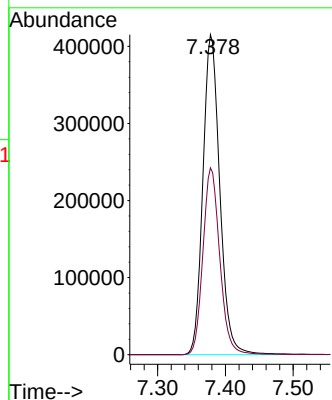
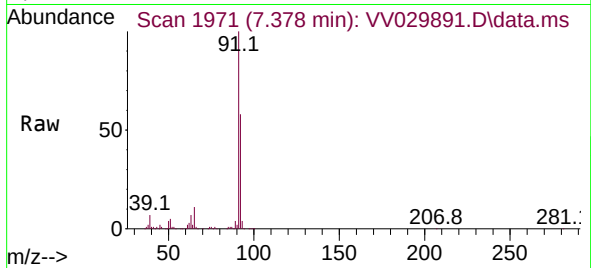




#42  
Toluene  
Concen: 52.348 ug/L  
RT: 7.378 min Scan# 1971  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

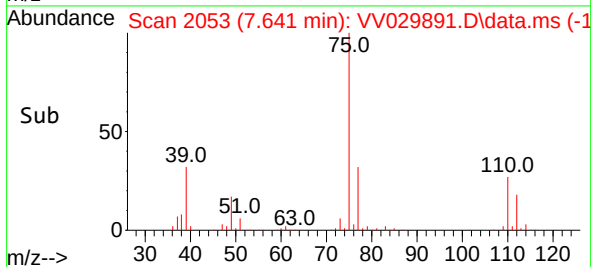
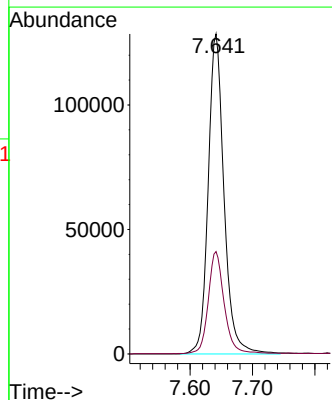
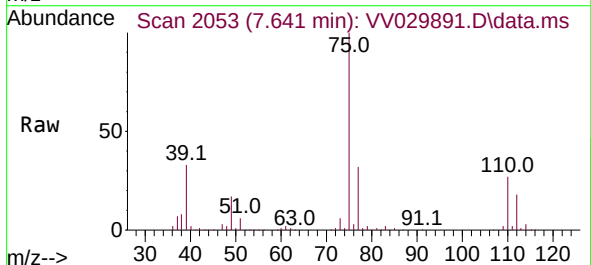
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050204

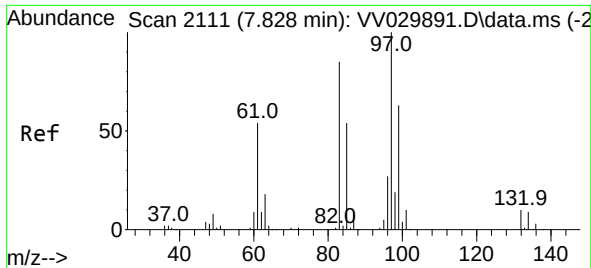
Tgt Ion: 91 Resp: 718984  
Ion Ratio Lower Upper  
91 100  
92 58.4 40.9 75.9



#44  
trans-1,3-Dichloropropene  
Concen: 48.128 ug/L  
RT: 7.641 min Scan# 2053  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

Tgt Ion: 75 Resp: 226618  
Ion Ratio Lower Upper  
75 100  
77 32.0 22.4 41.6



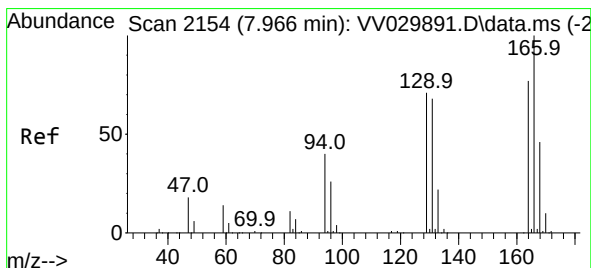
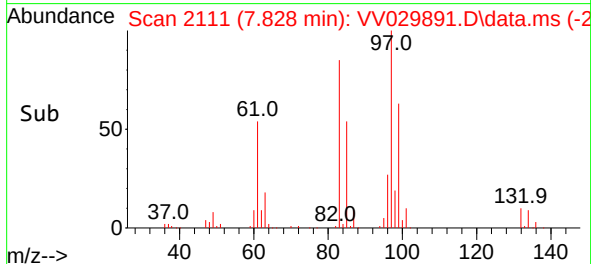
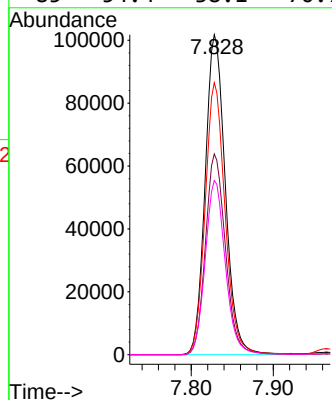
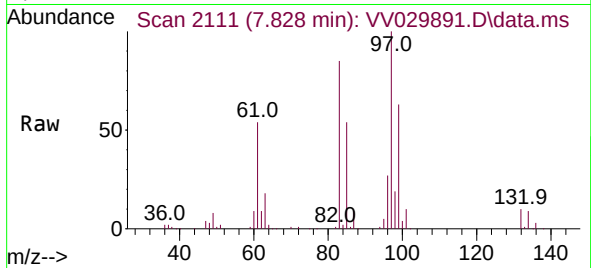


#45  
1,1,2-Trichloroethane  
Concen: 54.065 ug/L  
RT: 7.828 min Scan# 2111  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050204

Tgt Ion: 97 Resp: 173626

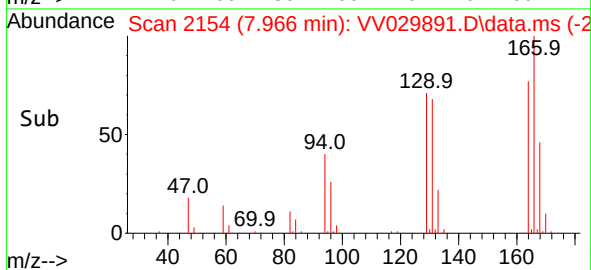
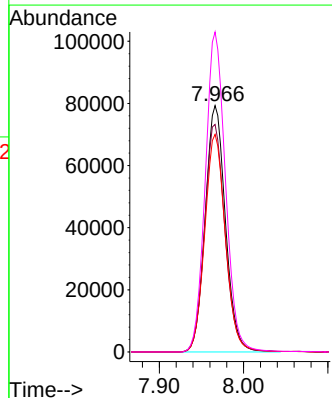
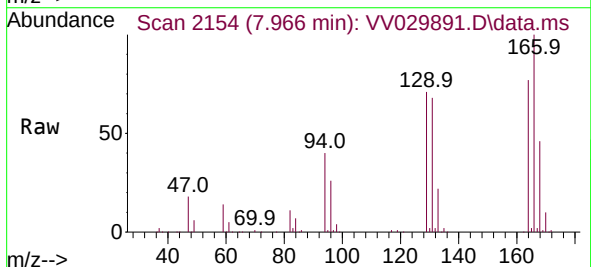
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 62.7  | 43.9  | 81.5  |
| 83  | 85.0  | 59.5  | 110.5 |
| 85  | 54.4  | 38.1  | 70.7  |

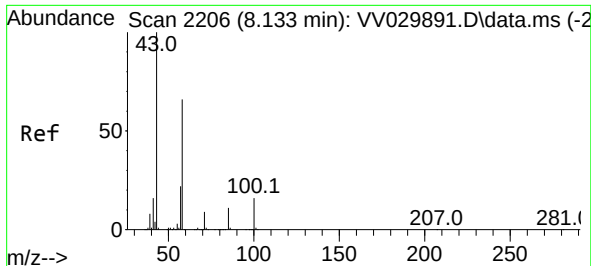


#46  
Tetrachloroethene  
Concen: 51.910 ug/L  
RT: 7.966 min Scan# 2154  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

Tgt Ion: 164 Resp: 133156

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 92.3  | 64.6  | 120.0 |
| 131 | 88.3  | 61.8  | 114.8 |
| 166 | 129.9 | 90.9  | 168.9 |



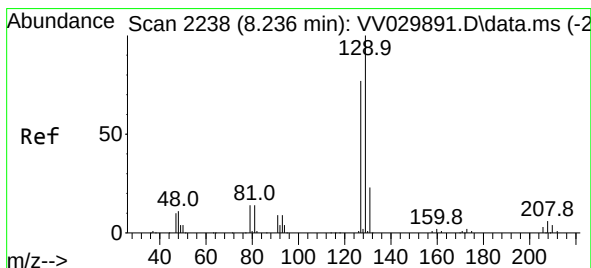
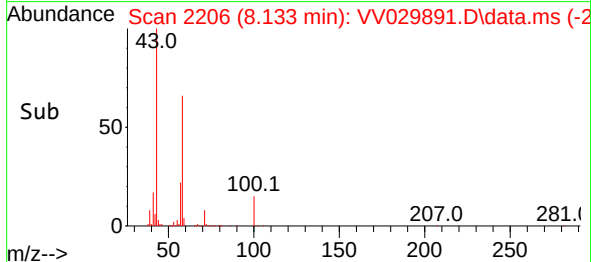
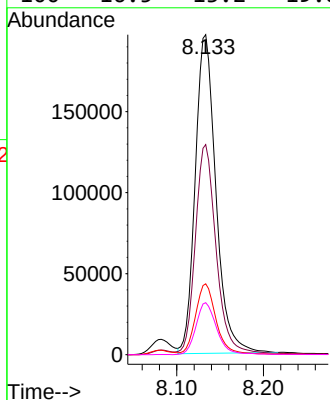
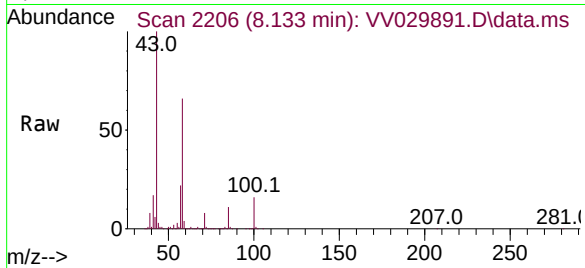


#48  
2-Hexanone  
Concen: 113.844 ug/L  
RT: 8.133 min Scan# 2206  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050204

Tgt Ion: 43 Resp: 327014

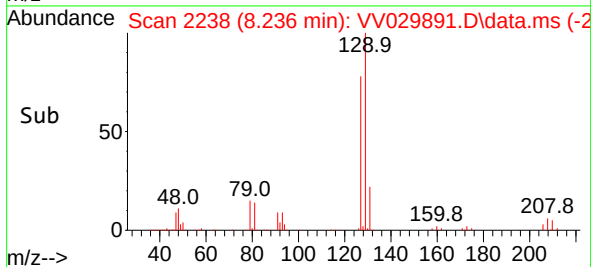
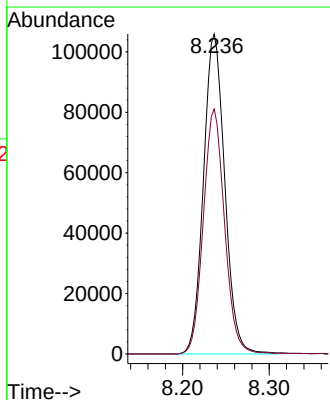
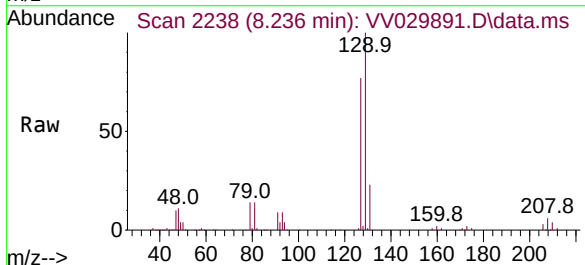
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 66.5  | 53.2  | 79.8  |
| 57  | 22.0  | 17.6  | 26.4  |
| 100 | 16.5  | 13.2  | 19.8  |

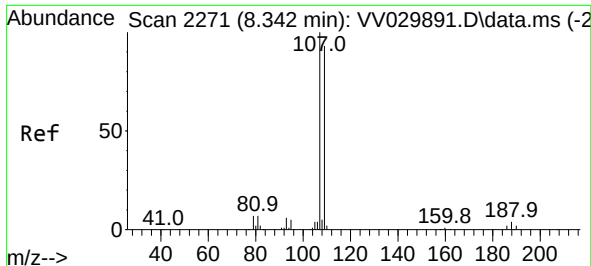


#49  
Dibromochloromethane  
Concen: 51.744 ug/L  
RT: 8.236 min Scan# 2238  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

Tgt Ion: 129 Resp: 181077

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 76.5  | 53.5  | 99.5  |





#50

1,2-Dibromoethane

Concen: 53.087 ug/L

RT: 8.342 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050204

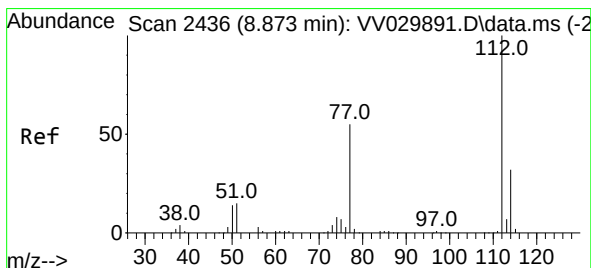
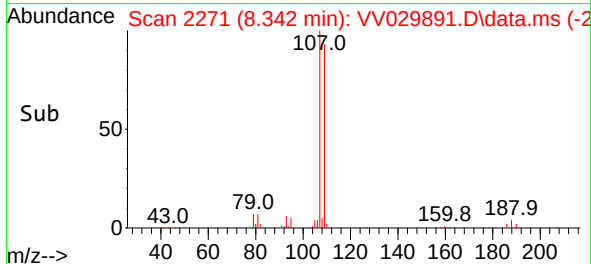
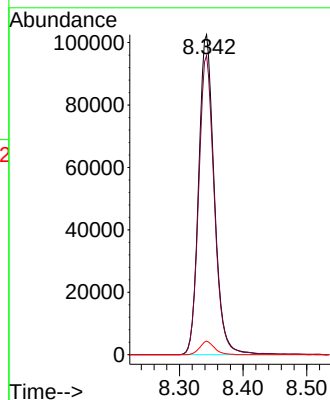
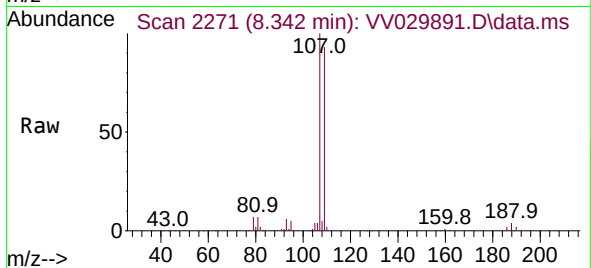
Tgt Ion:107 Resp: 174840

Ion Ratio Lower Upper

107 100

109 93.5 65.5 121.6

188 4.2 3.4 5.0



#51

Chlorobenzene

Concen: 53.705 ug/L

RT: 8.873 min Scan# 2436

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

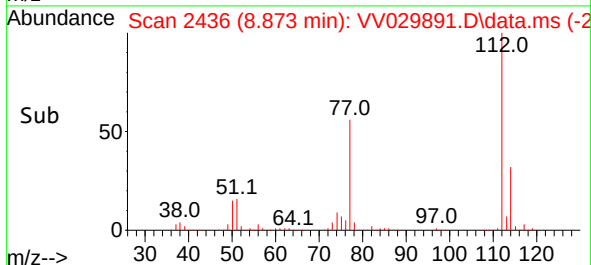
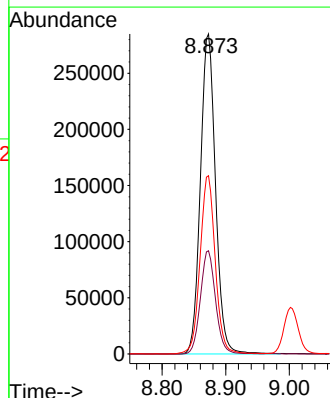
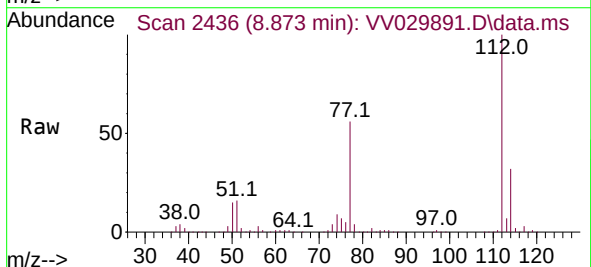
Tgt Ion:112 Resp: 470545

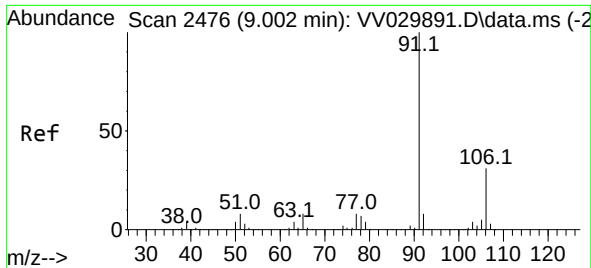
Ion Ratio Lower Upper

112 100

114 32.3 22.6 42.0

77 55.7 44.6 66.8

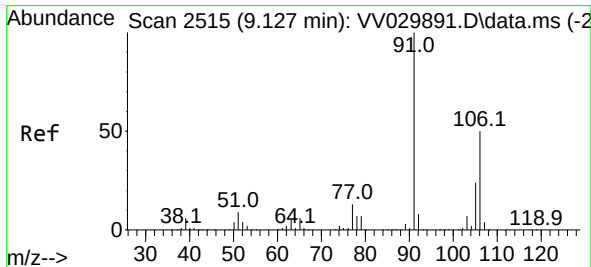
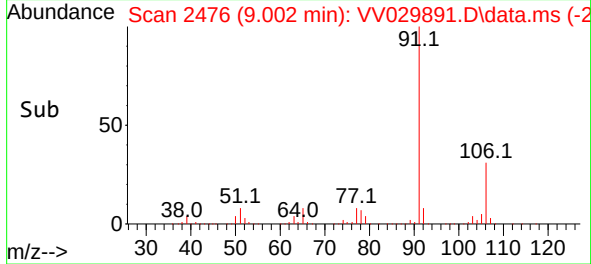
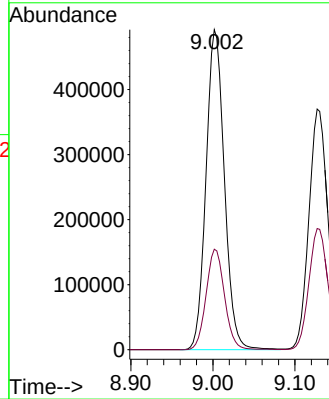
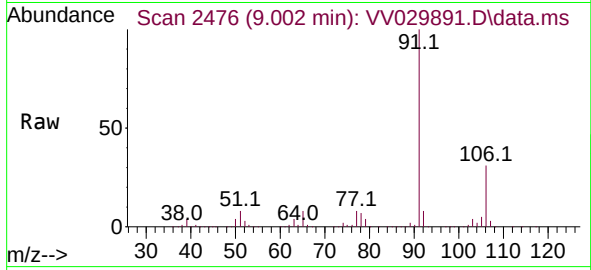




#52  
Ethylbenzene  
Concen: 52.940 ug/L  
RT: 9.002 min Scan# 2476  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

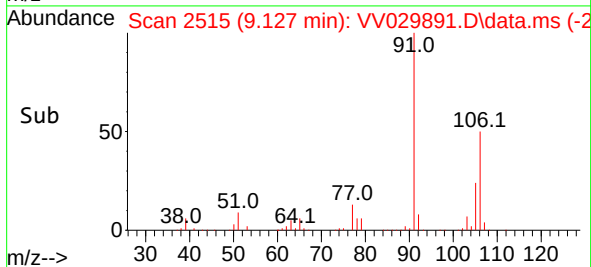
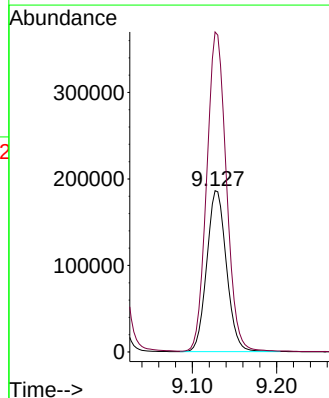
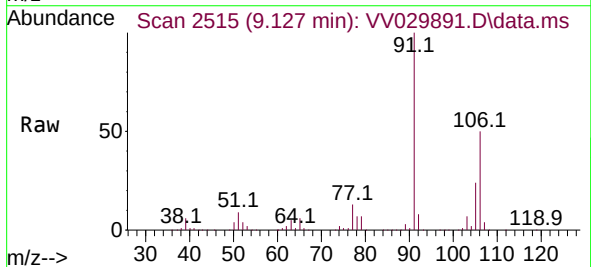
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050204

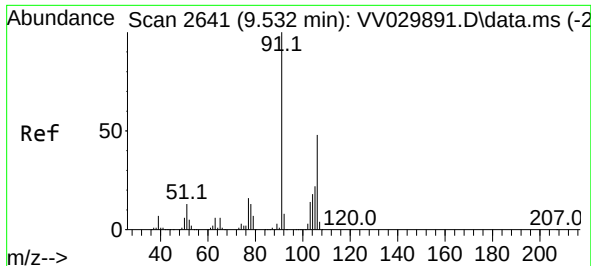
Tgt Ion: 91 Resp: 763984  
Ion Ratio Lower Upper  
91 100  
106 31.4 22.0 40.8



#53  
m,p-Xylene  
Concen: 53.014 ug/L  
RT: 9.127 min Scan# 2515  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

Tgt Ion:106 Resp: 303139  
Ion Ratio Lower Upper  
106 100  
91 198.5 138.9 258.1

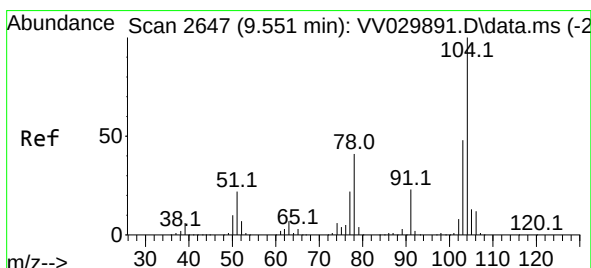
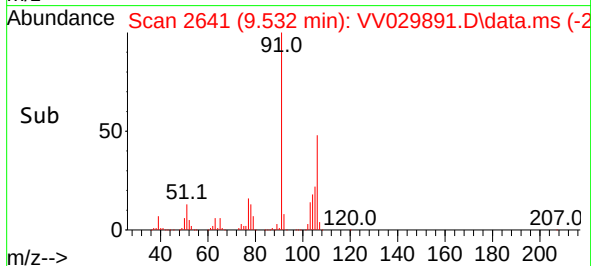
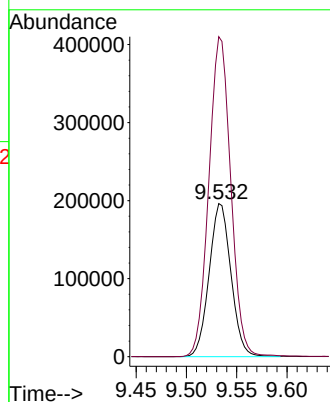
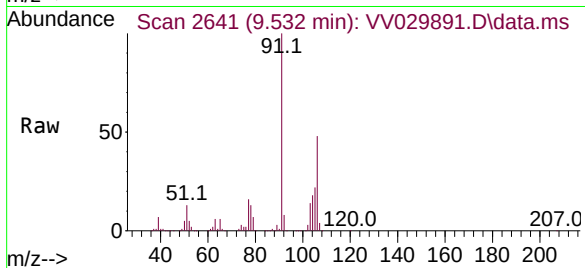




#54  
o-Xylene  
Concen: 52.516 ug/L  
RT: 9.532 min Scan# 2641  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

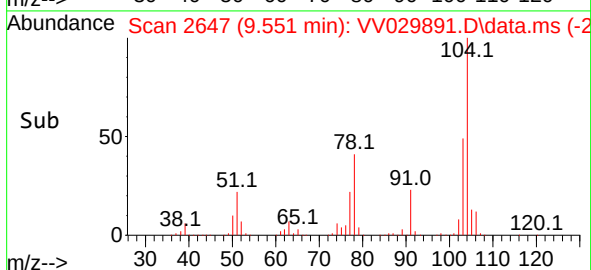
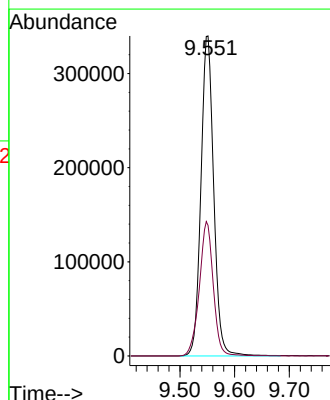
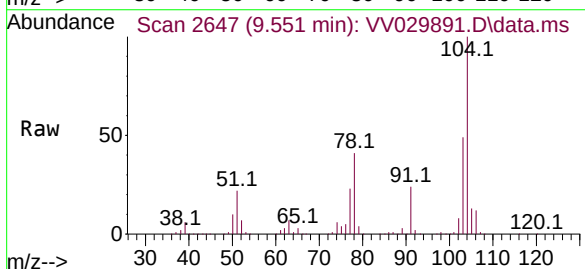
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050204

Tgt Ion:106 Resp: 296285  
Ion Ratio Lower Upper  
106 100  
91 208.9 146.2 271.6

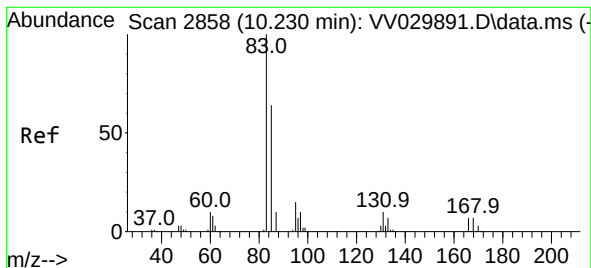


#55  
Styrene  
Concen: 55.620 ug/L  
RT: 9.551 min Scan# 2647  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

Tgt Ion:104 Resp: 551929  
Ion Ratio Lower Upper  
104 100  
78 40.8 28.6 53.0







#57

1,1,2,2-Tetrachloroethane

Concen: 55.613 ug/L

RT: 10.230 min Scan# 2858

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050204

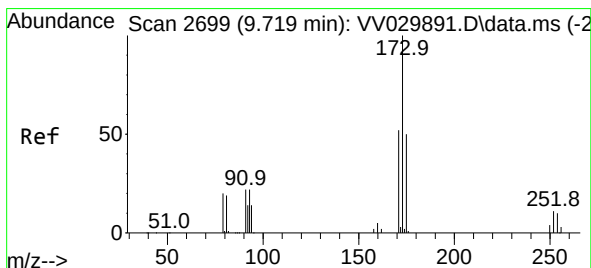
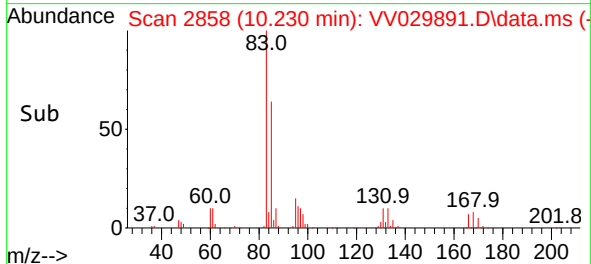
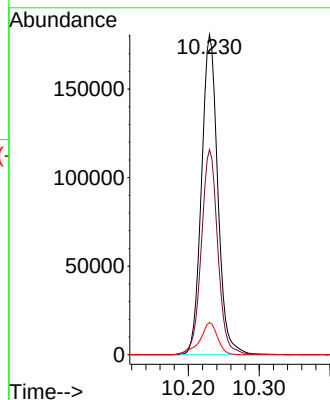
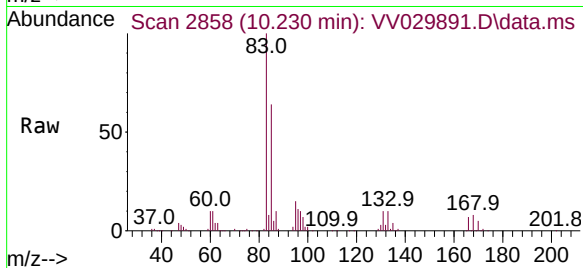
Tgt Ion: 83 Resp: 287411

Ion Ratio Lower Upper

83 100

85 64.1 44.9 83.3

131 10.1 8.1 12.1



#59

Bromoform

Concen: 43.415 ug/L

RT: 9.719 min Scan# 2699

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

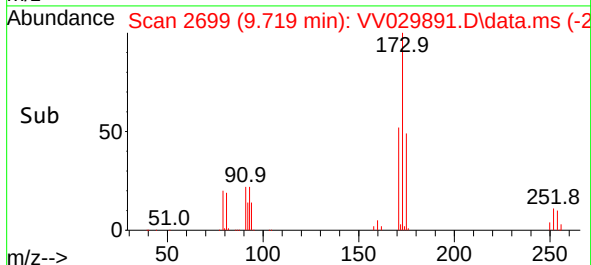
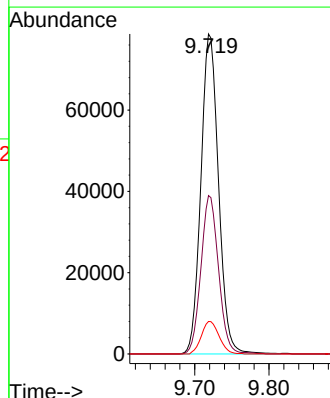
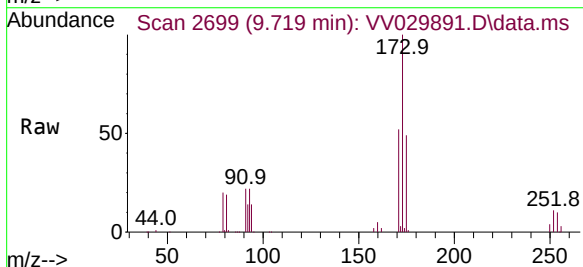
Tgt Ion: 173 Resp: 129979

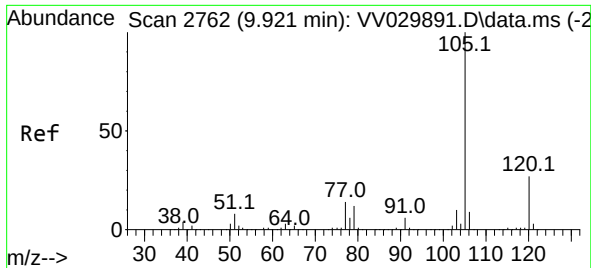
Ion Ratio Lower Upper

173 100

175 49.4 39.5 59.3

254 10.2 8.2 12.2

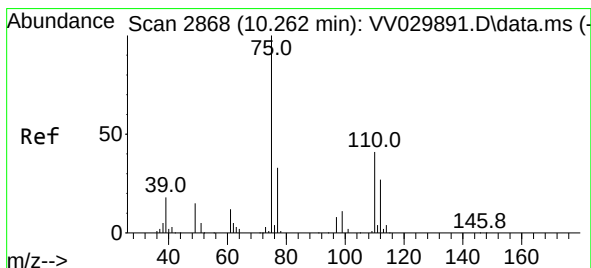
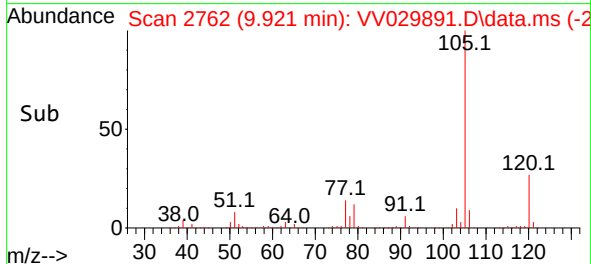
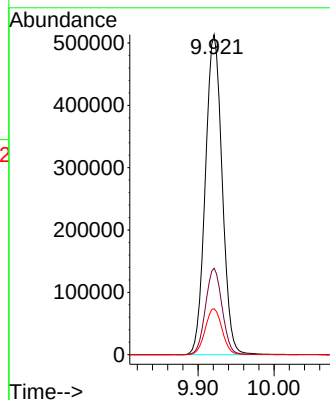
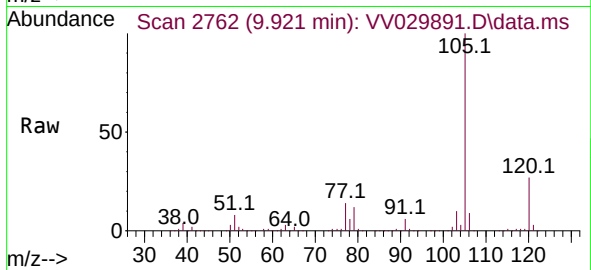




#60  
Isopropylbenzene  
Concen: 48.553 ug/L  
RT: 9.921 min Scan# 2762  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

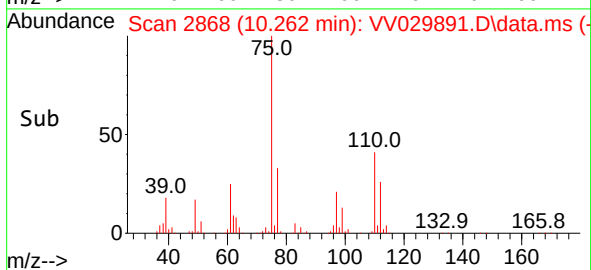
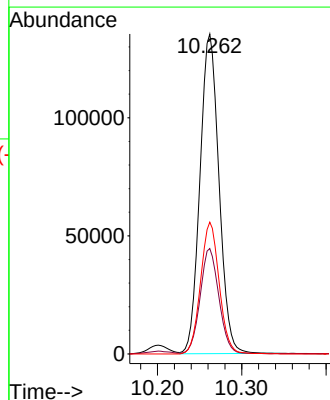
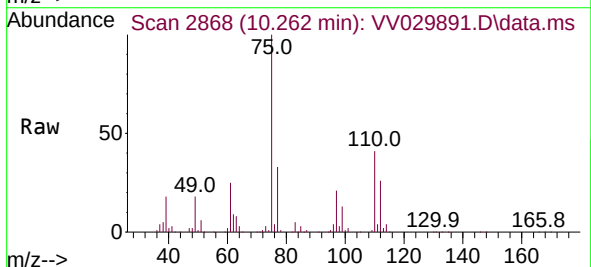
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050204

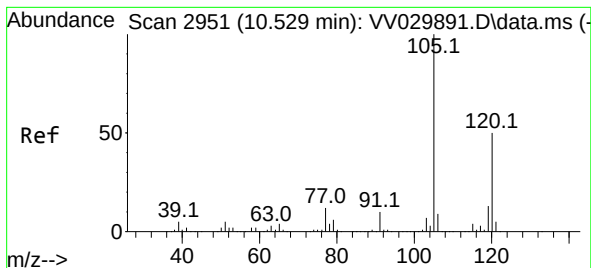
Tgt Ion:105 Resp: 788223  
Ion Ratio Lower Upper  
105 100  
120 26.8 21.4 32.2  
77 14.5 11.6 17.4



#61  
1,2,3-Trichloropropane  
Concen: 49.349 ug/L  
RT: 10.262 min Scan# 2868  
Delta R.T. 0.000 min  
Lab File: VV029891.D  
Acq: 18 Jan 2023 11:12

Tgt Ion: 75 Resp: 212949  
Ion Ratio Lower Upper  
75 100  
77 32.4 25.9 38.9  
110 40.4 32.3 48.5





#62

1,3,5-Trimethylbenzene

Concen: 48.121 ug/L

RT: 10.529 min Scan# 2951

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

Instrument :

MSVOA\_V

ClientSampleId :

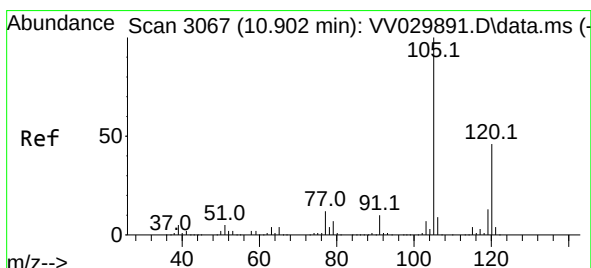
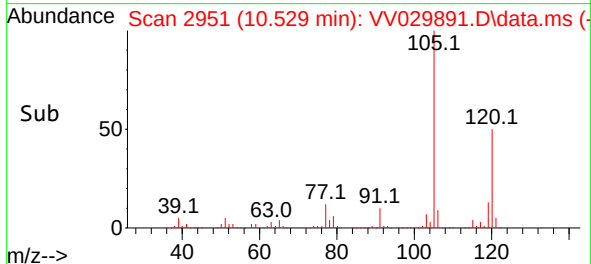
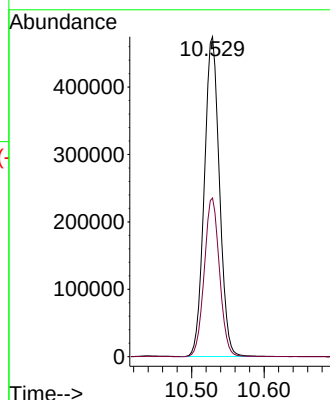
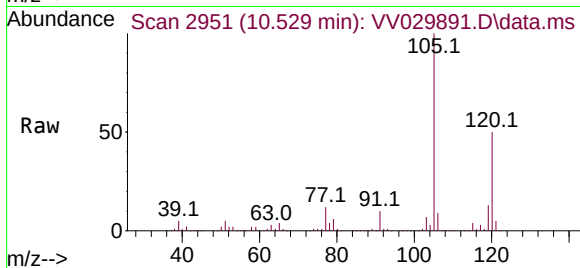
VSTD050204

Tgt Ion:105 Resp: 690577

Ion Ratio Lower Upper

105 100

120 49.9 39.9 59.9



#63

1,2,4-Trimethylbenzene

Concen: 48.743 ug/L

RT: 10.902 min Scan# 3067

Delta R.T. 0.000 min

Lab File: VV029891.D

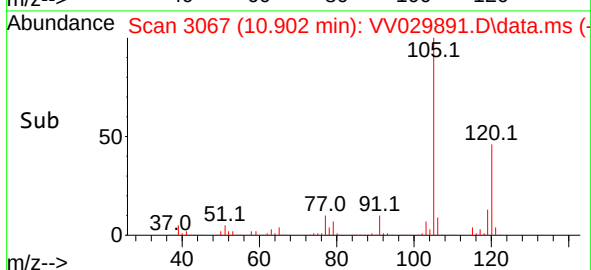
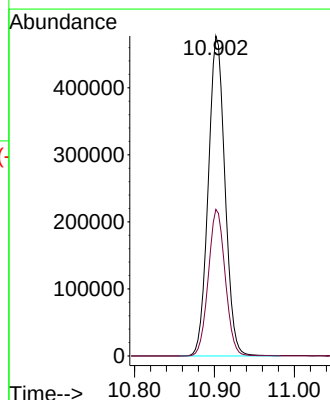
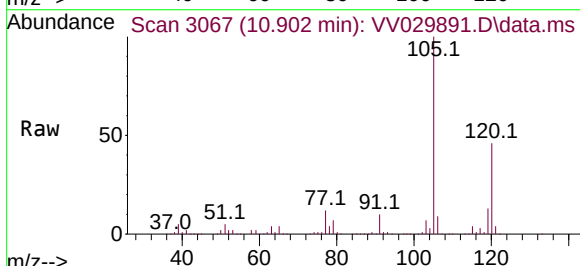
Acq: 18 Jan 2023 11:12

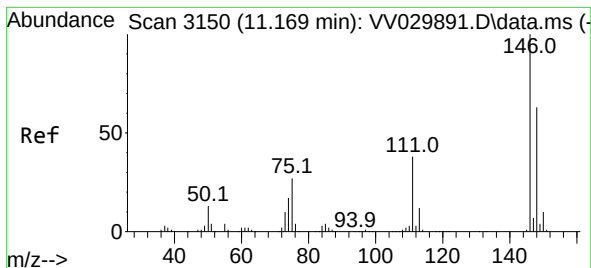
Tgt Ion:105 Resp: 693141

Ion Ratio Lower Upper

105 100

120 46.3 37.0 55.6





#64

1,3-Dichlorobenzene

Concen: 50.330 ug/L

RT: 11.169 min Scan# 3150

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050204

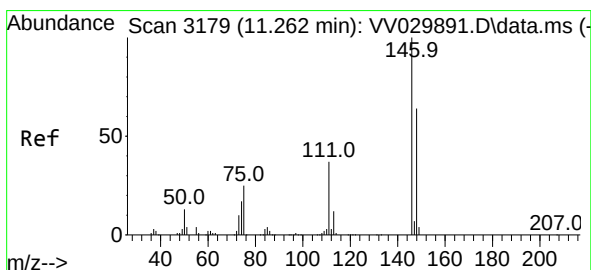
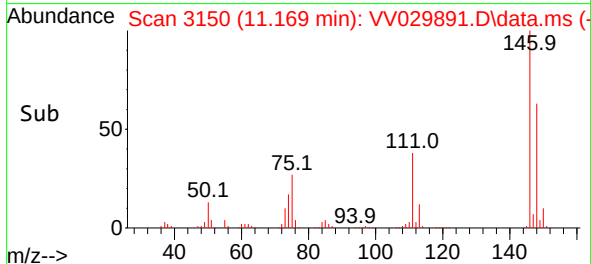
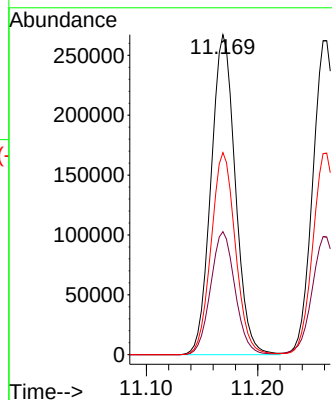
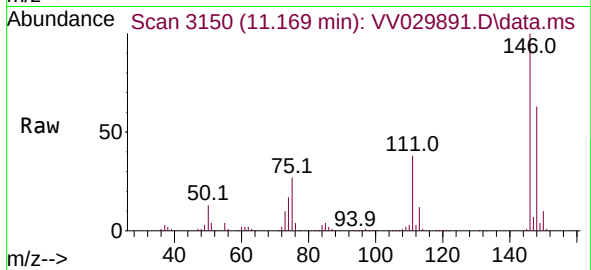
Tgt Ion:146 Resp: 405252

Ion Ratio Lower Upper

146 100

111 38.5 26.9 50.1

148 63.2 44.2 82.2



#65

1,4-Dichlorobenzene

Concen: 49.973 ug/L

RT: 11.262 min Scan# 3179

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

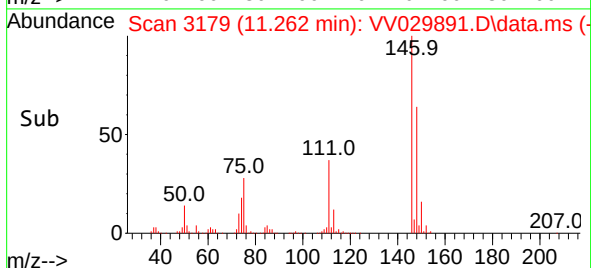
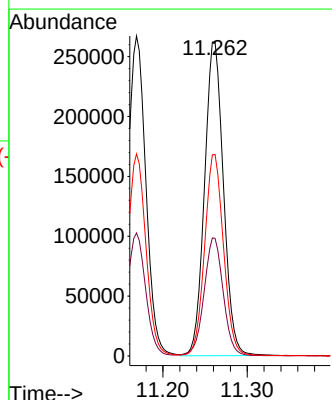
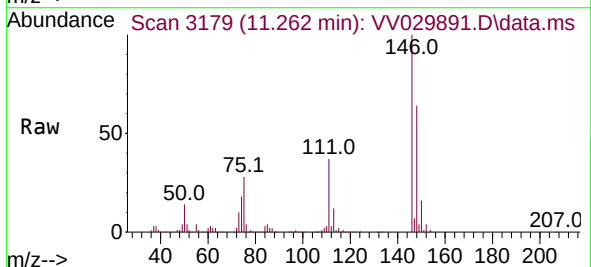
Tgt Ion:146 Resp: 409462

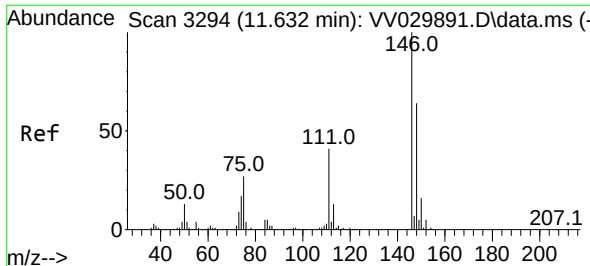
Ion Ratio Lower Upper

146 100

111 37.5 26.2 48.8

148 64.2 44.9 83.5





#67

1,2-Dichlorobenzene

Concen: 49.496 ug/L

RT: 11.632 min Scan# 3294

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050204

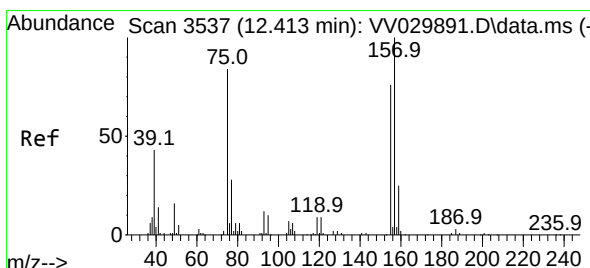
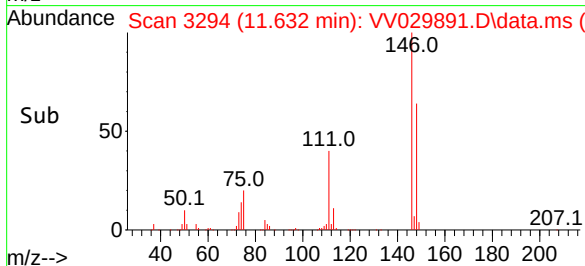
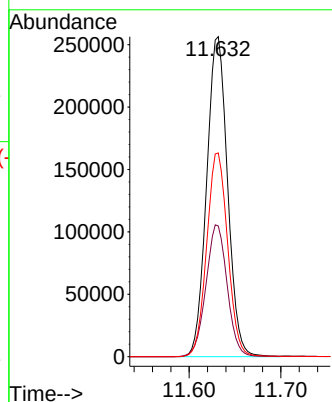
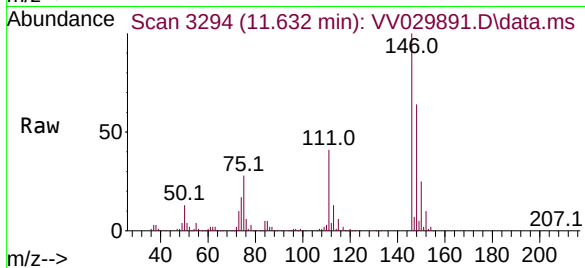
Tgt Ion:146 Resp: 406799

Ion Ratio Lower Upper

146 100

111 40.9 32.7 49.1

148 63.7 51.0 76.4



#68

1,2-Dibromo-3-chloropropane

Concen: 44.093 ug/L

RT: 12.413 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

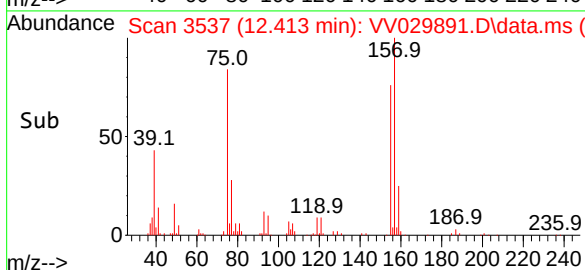
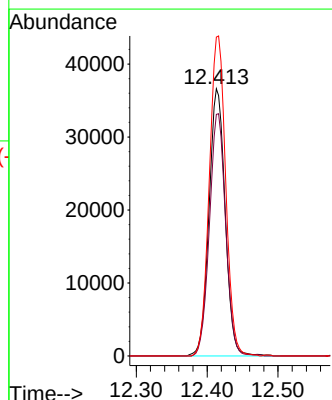
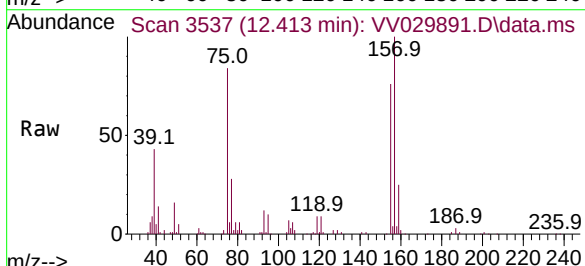
Tgt Ion: 75 Resp: 57988

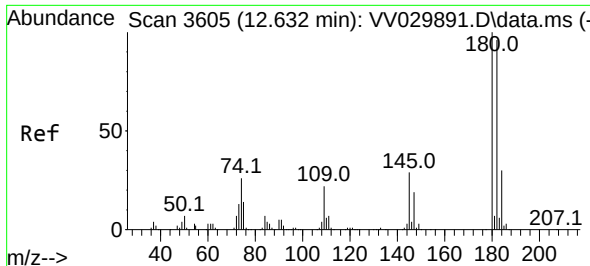
Ion Ratio Lower Upper

75 100

155 90.4 72.3 108.5

157 119.3 95.4 143.2

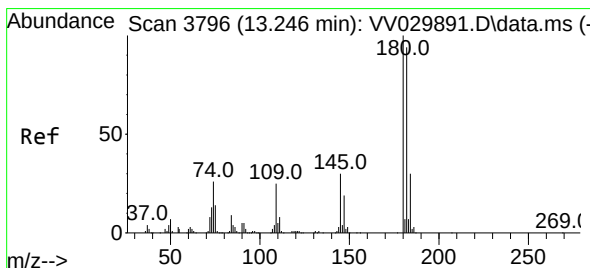
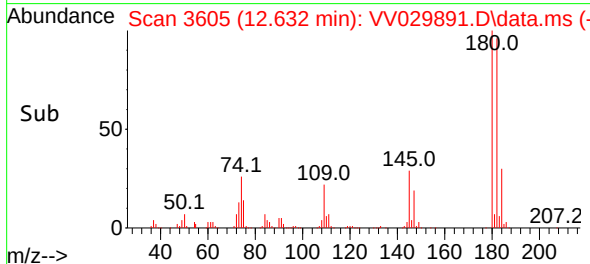
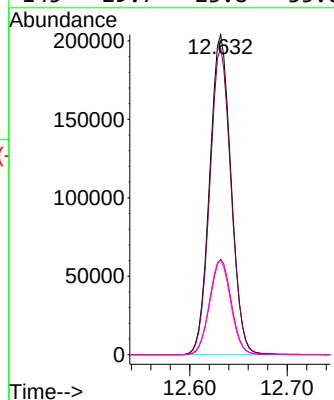
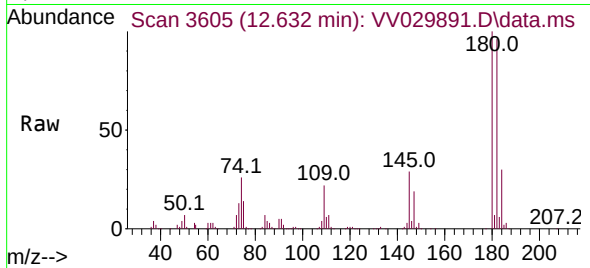




#69  
 1,3,5-Trichlorobenzene  
 Concen: 48.833 ug/L  
 RT: 12.632 min Scan# 3605  
 Delta R.T. 0.000 min  
 Lab File: VV029891.D  
 Acq: 18 Jan 2023 11:12

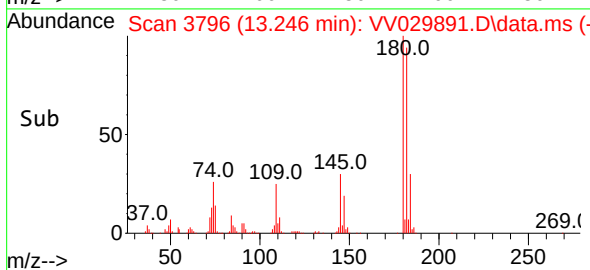
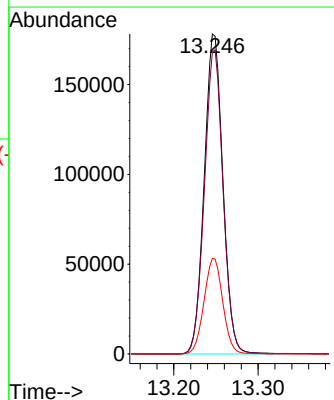
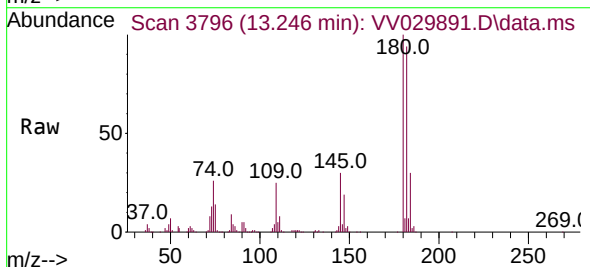
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050204

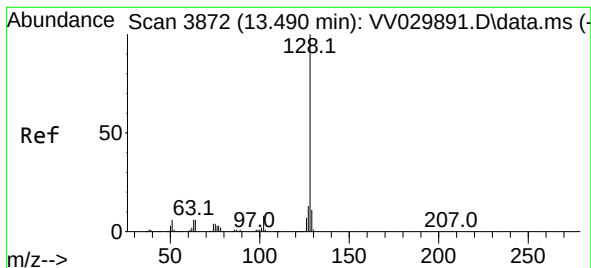
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 310645 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 95.3  | 76.2  | 114.4  |
| 184       | 29.9  | 23.9  | 35.9   |
| 145       | 29.7  | 23.8  | 35.6   |



#70  
 1,2,4-trichlorobenzene  
 Concen: 48.701 ug/L  
 RT: 13.246 min Scan# 3796  
 Delta R.T. 0.000 min  
 Lab File: VV029891.D  
 Acq: 18 Jan 2023 11:12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 274990 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 95.0  | 76.0  | 114.0  |
| 145       | 30.0  | 24.0  | 36.0   |





#71

Naphthalene

Concen: 57.420 ug/L

RT: 13.490 min Scan# 3872

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050204

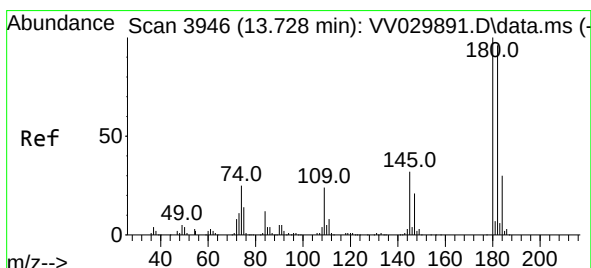
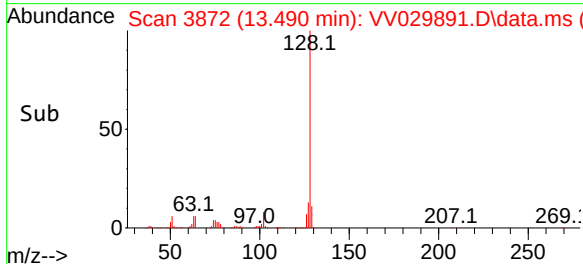
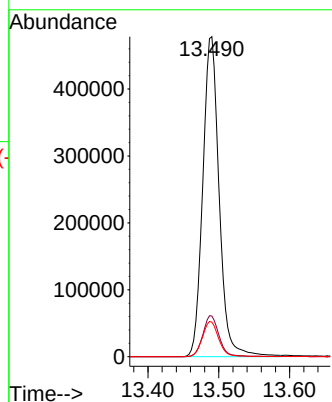
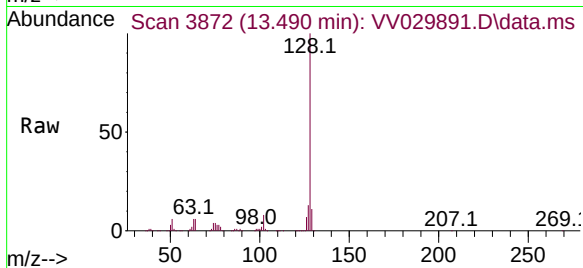
Tgt Ion:128 Resp: 768221

Ion Ratio Lower Upper

128 100

127 12.6 10.1 15.1

129 10.9 8.7 13.1



#72

1,2,3-Trichlorobenzene

Concen: 49.402 ug/L

RT: 13.728 min Scan# 3946

Delta R.T. 0.000 min

Lab File: VV029891.D

Acq: 18 Jan 2023 11:12

Tgt Ion:180 Resp: 273421

Ion Ratio Lower Upper

180 100

182 95.4 76.3 114.5

145 32.1 25.7 38.5

