

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW120423\  
 Data File : VW033088.D  
 Acq On : 04 Dec 2023 09:23  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Dec 05 03:18:49 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM120123WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Dec 04 04:21:32 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.532   | 114   | 336422   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.783   | 117   | 334294   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.185  | 152   | 205450   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278   | 65    | 91622    | 45.558   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 91.120%  |
| 7) Chloroethane-d5            | 1.529   | 69    | 64408    | 45.963   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 91.920%  |
| 11) 1,1-Dichloroethene-d2     | 2.059   | 65    | 35222    | 46.037   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 92.080%  |
| 21) 2-Butanone-d5             | 3.776   | 46    | 101447   | 101.560  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 101.560% |
| 24) Chloroform-d              | 4.246   | 84    | 205096   | 48.054   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.100%  |
| 26) 1,2-Dichloroethane-d4     | 4.937   | 65    | 126779   | 47.777   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.560%  |
| 32) Benzene-d6                | 4.956   | 84    | 372262   | 47.614   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.220%  |
| 36) 1,2-Dichloropropane-d6    | 5.985   | 67    | 103688   | 49.324   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 98.640%  |
| 41) Toluene-d8                | 7.243   | 98    | 362594   | 48.616   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 97.240%  |
| 43) trans-1,3-Dichloroprop... | 7.551   | 79    | 63124    | 47.487   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 94.980%  |
| 47) 2-Hexanone-d5             | 8.021   | 63    | 83095    | 98.394   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 98.390%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.152  | 84    | 150483   | 50.357   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 100.720% |
| 66) 1,2-Dichlorobenzene-d4    | 11.561  | 152   | 174876   | 47.840   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 95.680%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105   | 85    | 174524   | 47.460   | ug/L   | 99       |
| 3) Chloromethane              | 1.214   | 50    | 117877   | 48.602   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.285   | 62    | 111587   | 47.973   | ug/L   | 98       |
| 6) Bromomethane               | 1.484   | 94    | 73970    | 48.735   | ug/L   | 98       |
| 8) Chloroethane               | 1.548   | 64    | 58476    | 47.220   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.712   | 101   | 190953   | 49.751   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069   | 101   | 89462    | 49.635   | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 2.069   | 96    | 84195    | 49.919   | ug/L   | 98       |
| 13) Acetone                   | 2.108   | 43    | 86614    | 90.829   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.240   | 76    | 294091   | 48.600   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.368   | 43    | 78822    | 49.593   | ug/L   | 97       |
| 16) Methylene chloride        | 2.445   | 84    | 107592   | 48.174   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 2.693   | 96    | 108626   | 49.052   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 2.699   | 73    | 337628   | 50.188   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.108   | 63    | 179190   | 48.889   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.812   | 96    | 117403   | 49.964   | ug/L   | 100      |
| 22) 2-Butanone                | 3.857   | 43    | 111174   | 91.611   | ug/L   | 98       |
| 23) Bromochloromethane        | 4.143   | 128   | 65668    | 48.671   | ug/L   | 98       |
| 25) Chloroform                | 4.272   | 83    | 208963   | 49.572   | ug/L   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW120423\  
 Data File : VW033088.D  
 Acq On : 04 Dec 2023 09:23  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

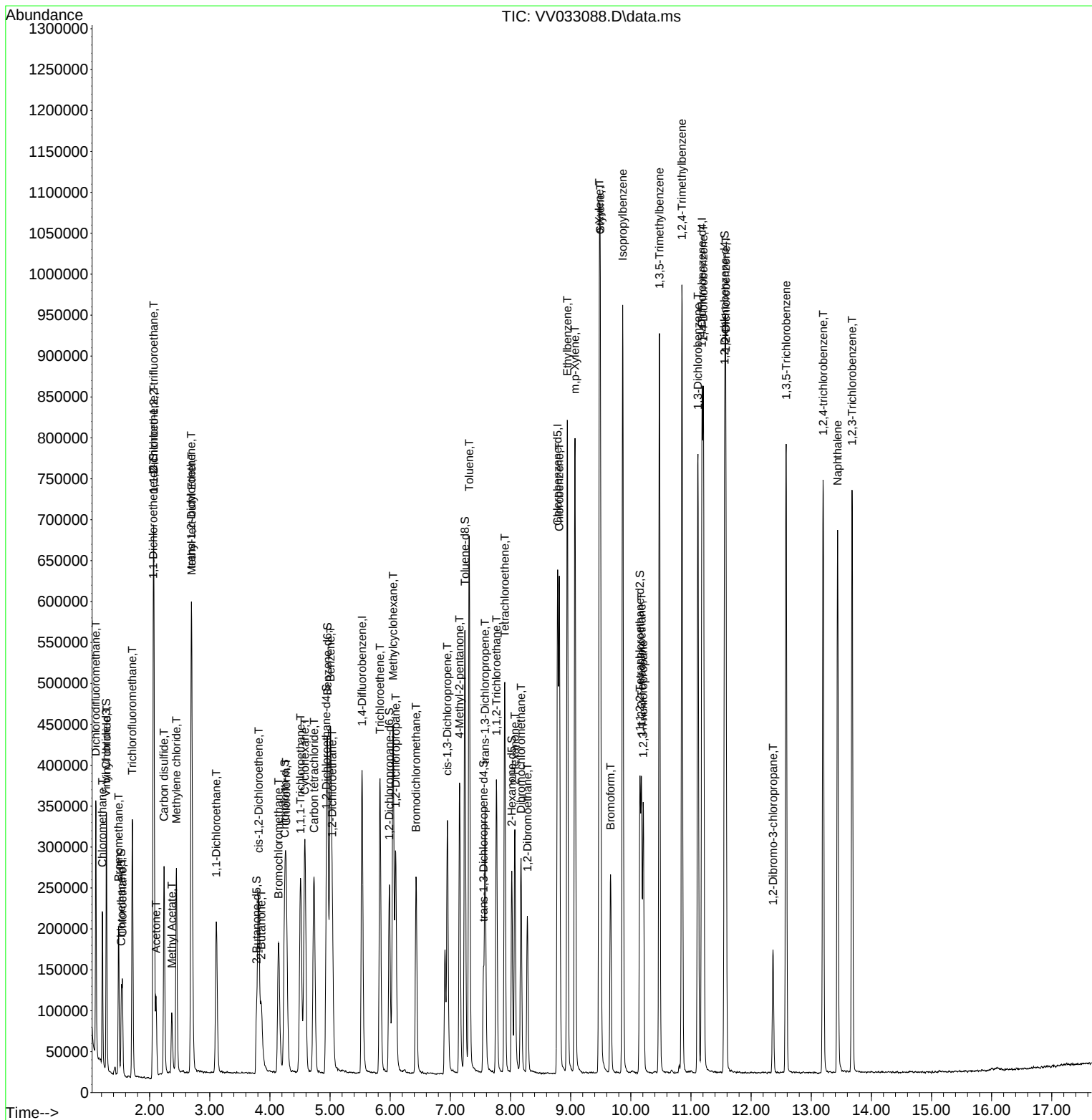
Instrument :  
 MSVOA\_V  
 ClientSampleId :

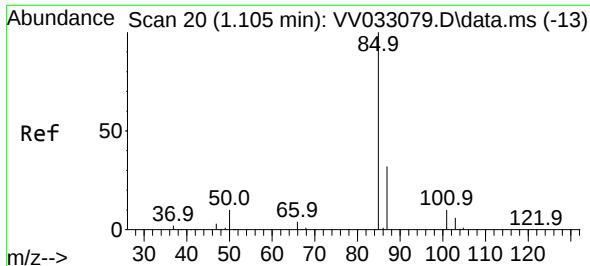
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 Quant Title : VOC Analysis  
 QLast Update : Mon Dec 04 04:21:32 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.037  | 62   | 165353   | 49.641  | ug/L  | 99       |
| 29) Cyclohexane               | 4.580  | 56   | 154659   | 50.089  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.510  | 97   | 204154   | 49.415  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.735  | 117  | 190684   | 49.638  | ug/L  | 99       |
| 33) Benzene                   | 5.008  | 78   | 427004   | 50.406  | ug/L  | 100      |
| 34) Trichloroethene           | 5.831  | 95   | 124134   | 49.049  | ug/L  | 96       |
| 35) Methylcyclohexane         | 6.046  | 83   | 187819   | 51.134  | ug/L  | 100      |
| 37) 1,2-Dichloropropane       | 6.091  | 63   | 98009    | 49.991  | ug/L  | 98       |
| 38) Bromodichloromethane      | 6.429  | 83   | 159550   | 50.480  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 6.950  | 75   | 176777   | 49.691  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone      | 7.153  | 43   | 209406   | 100.598 | ug/L  | 99       |
| 42) Toluene                   | 7.313  | 91   | 484346   | 50.738  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 7.577  | 75   | 183196   | 50.926  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 113038   | 49.727  | ug/L  | 99       |
| 46) Tetrachloroethene         | 7.905  | 164  | 109119   | 50.156  | ug/L  | 96       |
| 48) 2-Hexanone                | 8.072  | 43   | 168613   | 97.698  | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.175  | 129  | 134607   | 49.604  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.281  | 107  | 117639   | 48.540  | ug/L  | 95       |
| 51) Chlorobenzene             | 8.812  | 112  | 328797   | 48.980  | ug/L  | 99       |
| 52) Ethylbenzene              | 8.947  | 91   | 553856   | 50.406  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.072  | 106  | 221784   | 50.969  | ug/L  | 95       |
| 54) o-Xylene                  | 9.477  | 106  | 213921   | 49.821  | ug/L  | 97       |
| 55) Styrene                   | 9.493  | 104  | 383045   | 51.568  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.178 | 83   | 152972   | 49.254  | ug/L  | 98       |
| 59) Bromoform                 | 9.664  | 173  | 109386   | 49.056  | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.866  | 105  | 592594   | 50.024  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 119913   | 46.808  | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.477 | 105  | 480219   | 50.315  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 505614   | 50.868  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.117 | 146  | 305964   | 48.345  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.207 | 146  | 312586   | 47.548  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.580 | 146  | 298509   | 48.112  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.365 | 75   | 35848    | 45.604  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 12.583 | 180  | 242100   | 47.757  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.197 | 180  | 227403   | 48.554  | ug/L  | 99       |
| 71) Naphthalene               | 13.438 | 128  | 525794   | 46.034  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.680 | 180  | 218033   | 48.245  | ug/L  | 99       |

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

Quant Time: Dec 05 03:18:49 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM120123WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Dec 04 04:21:32 2023  
Response via : Initial Calibration

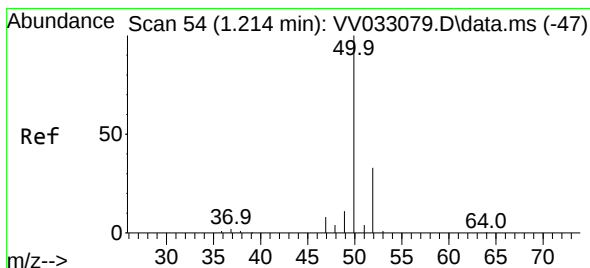
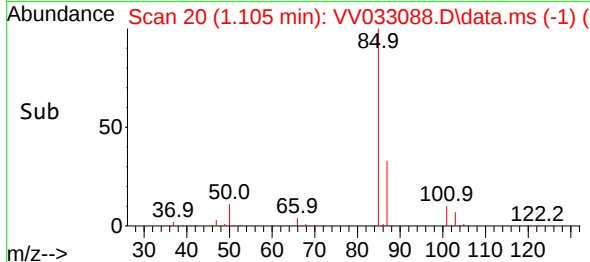
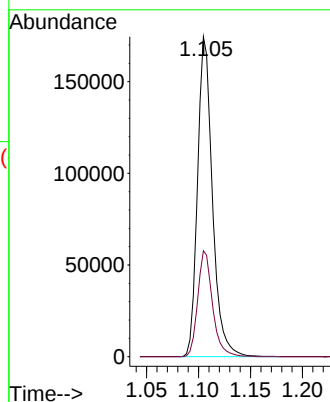
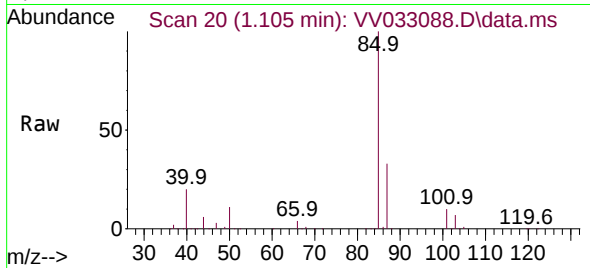




#2  
 Dichlorodifluoromethane  
 Concen: 47.460 ug/L  
 RT: 1.105 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: VV033088.D  
 Acq: 04 Dec 2023 09:23

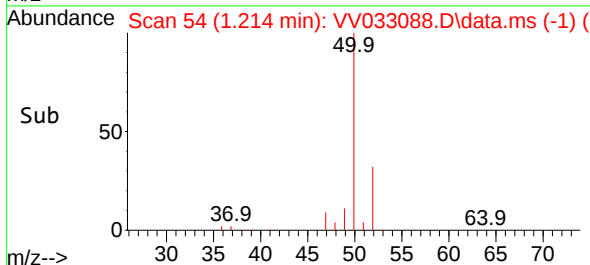
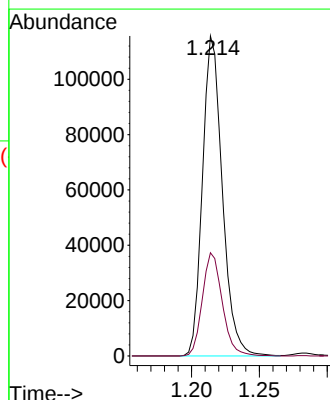
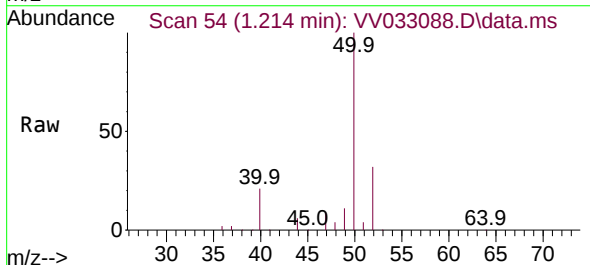
Instrument :  
 MSVOA\_V  
 ClientSampleId :

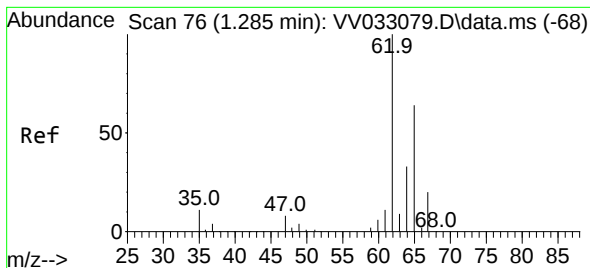
Tgt Ion: 85 Resp: 174524  
 Ion Ratio Lower Upper  
 85 100  
 87 32.9 26.0 39.0



#3  
 Chloromethane  
 Concen: 48.602 ug/L  
 RT: 1.214 min Scan# 54  
 Delta R.T. -0.000 min  
 Lab File: VV033088.D  
 Acq: 04 Dec 2023 09:23

Tgt Ion: 50 Resp: 117877  
 Ion Ratio Lower Upper  
 50 100  
 52 32.3 22.8 42.4





#5

Vinyl chloride

Concen: 47.973 ug/L

RT: 1.285 min Scan# 76

Delta R.T. -0.000 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

Instrument :

MSVOA\_V

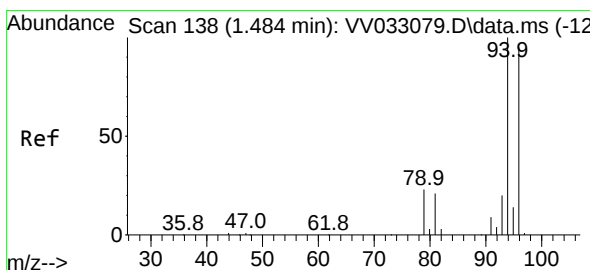
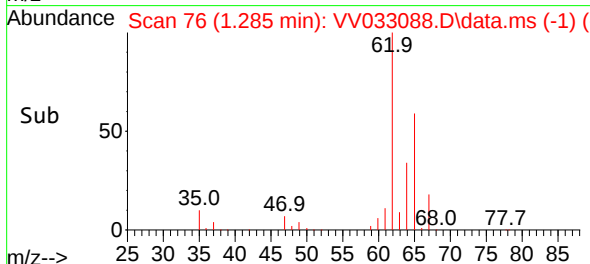
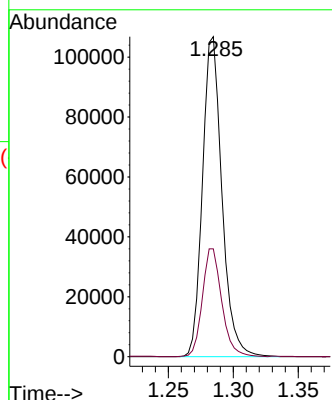
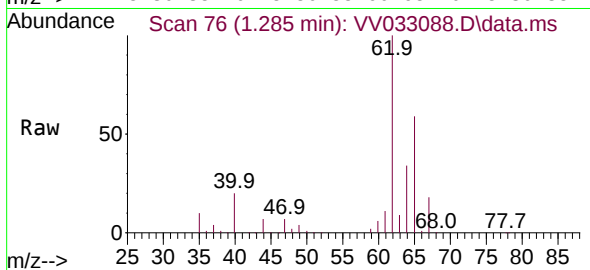
ClientSampleId :

Tgt Ion: 62 Resp: 111587

Ion Ratio Lower Upper

62 100

64 33.7 24.2 45.0



#6

Bromomethane

Concen: 48.735 ug/L

RT: 1.484 min Scan# 138

Delta R.T. -0.000 min

Lab File: VV033088.D

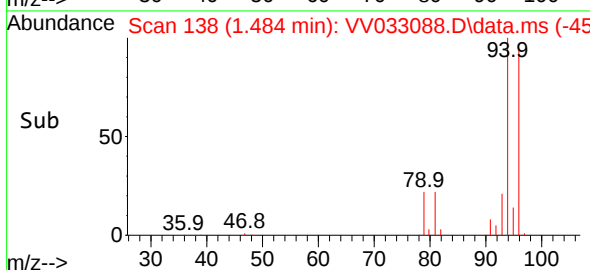
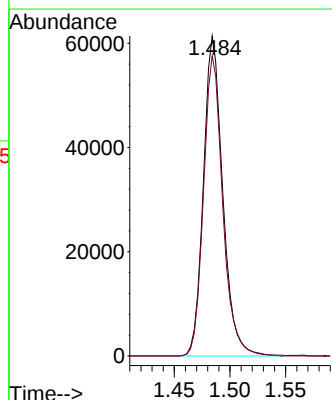
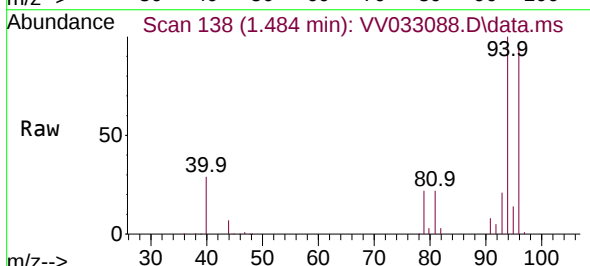
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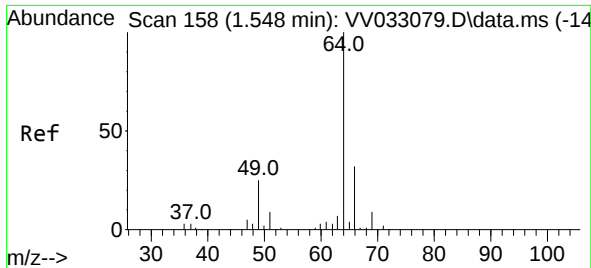
Tgt Ion: 94 Resp: 73970

Ion Ratio Lower Upper

94 100

96 93.8 67.1 124.7

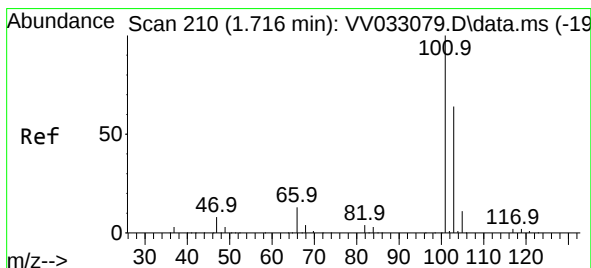
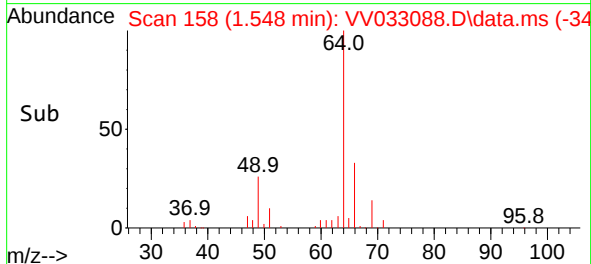
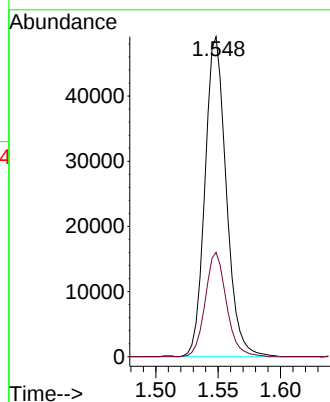
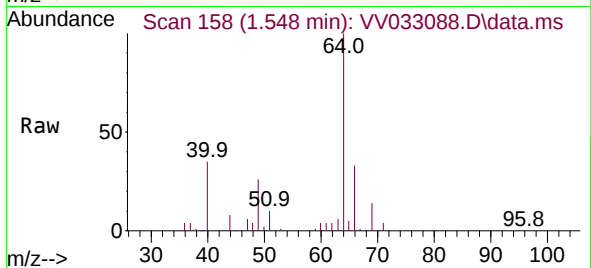




#8  
Chloroethane  
Concen: 47.220 ug/L  
RT: 1.548 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

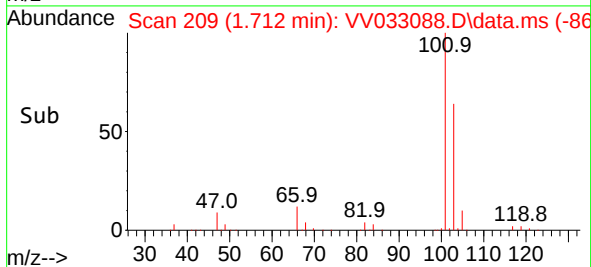
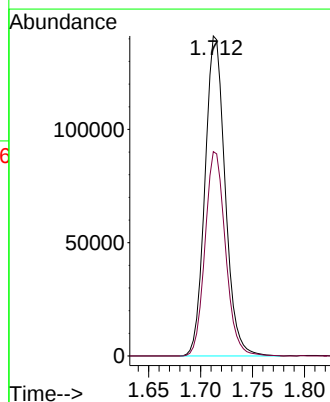
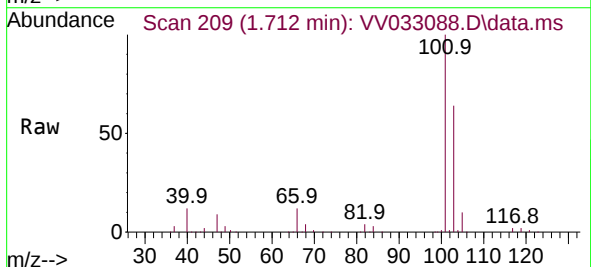
Instrument :  
MSVOA\_V  
ClientSampleId :

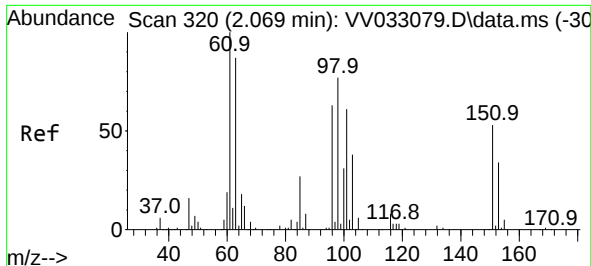
Tgt Ion: 64 Resp: 58476  
Ion Ratio Lower Upper  
64 100  
66 32.6 22.3 41.5



#9  
Trichlorofluoromethane  
Concen: 49.751 ug/L  
RT: 1.712 min Scan# 209  
Delta R.T. -0.003 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Tgt Ion:101 Resp: 190953  
Ion Ratio Lower Upper  
101 100  
103 64.5 51.3 76.9

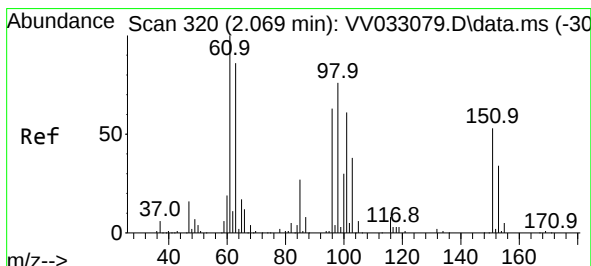
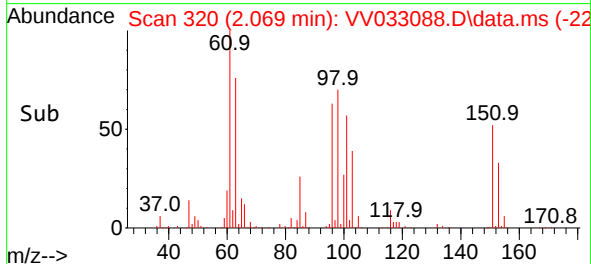
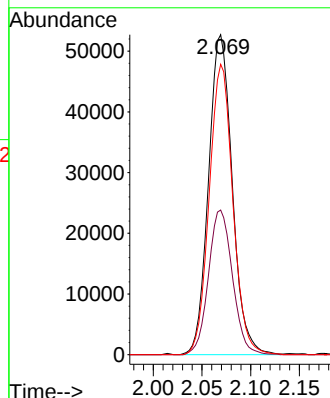
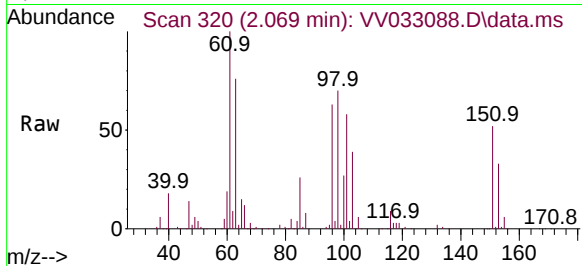




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 49.635 ug/L  
 RT: 2.069 min Scan# 31  
 Delta R.T. -0.000 min  
 Lab File: VV033088.D  
 Acq: 04 Dec 2023 09:23

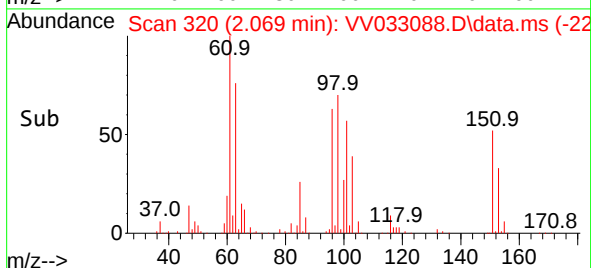
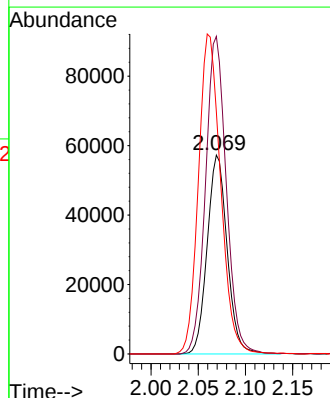
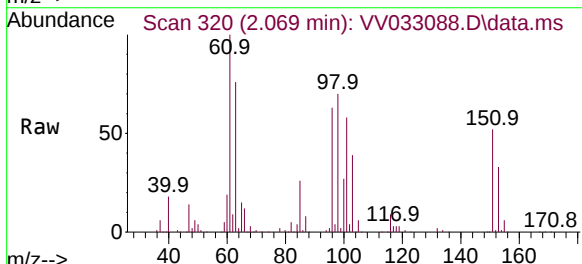
Instrument :  
 MSVOA\_V  
 ClientSampleId :

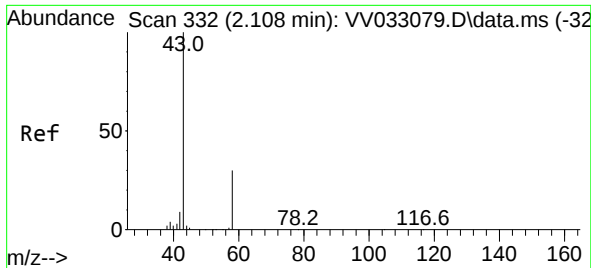
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 Ion Ratio Lower Upper  
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 151 90.3 69.1 103.7



#12  
 1,1-Dichloroethene  
 Concen: 49.919 ug/L  
 RT: 2.069 min Scan# 320  
 Delta R.T. -0.000 min  
 Lab File: VV033088.D  
 Acq: 04 Dec 2023 09:23

Tgt Ion: 96 Resp: 84195  
 Ion Ratio Lower Upper  
 96 100  
 61 159.6 109.1 202.7  
 63 121.7 85.3 158.3





#13

Acetone

Concen: 90.829 ug/L

RT: 2.108 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

Instrument :

MSVOA\_V

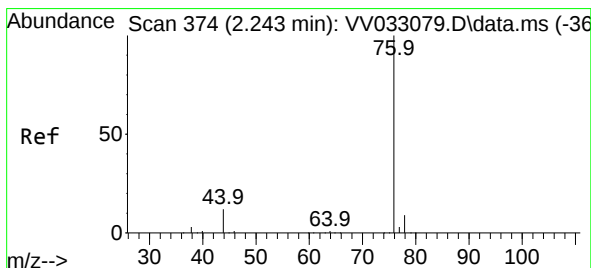
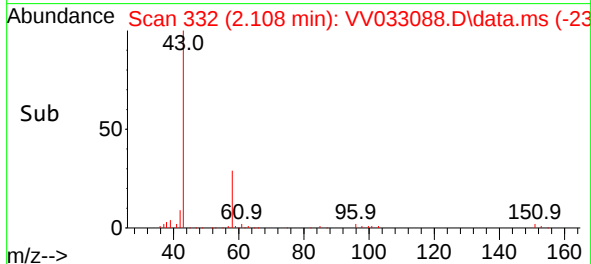
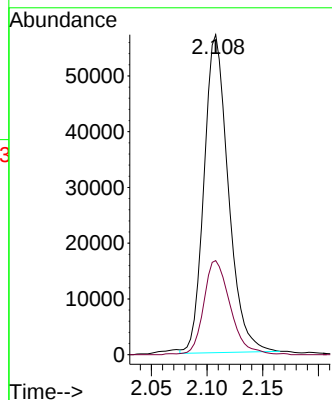
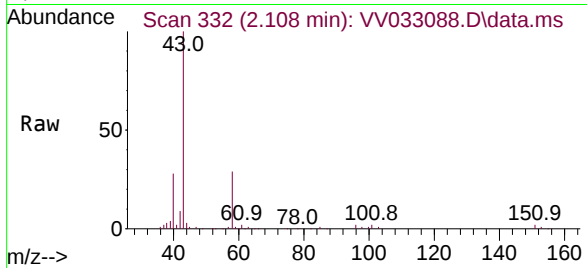
ClientSampleId :

Tgt Ion: 43 Resp: 86614

Ion Ratio Lower Upper

43 100

58 32.2 0.0 62.8



#14

Carbon disulfide

Concen: 48.600 ug/L

RT: 2.240 min Scan# 373

Delta R.T. -0.003 min

Lab File: VV033088.D

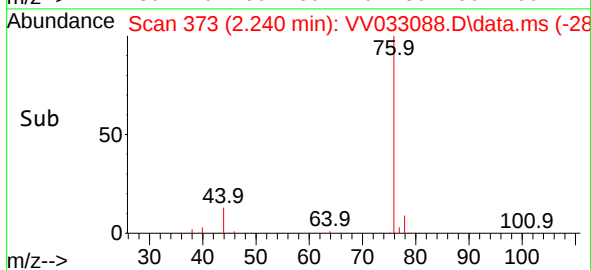
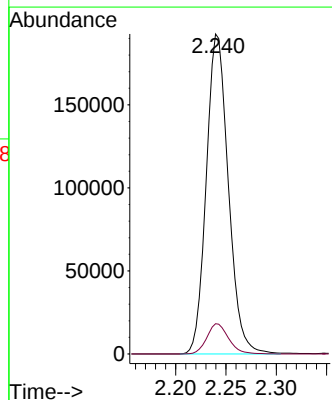
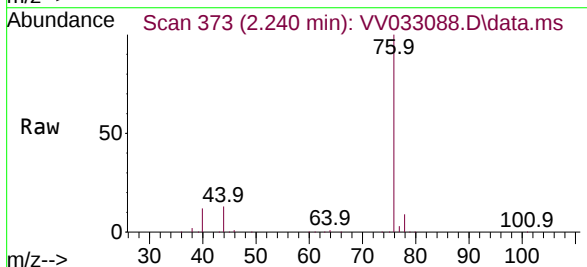
Acq: 04 Dec 2023 09:23

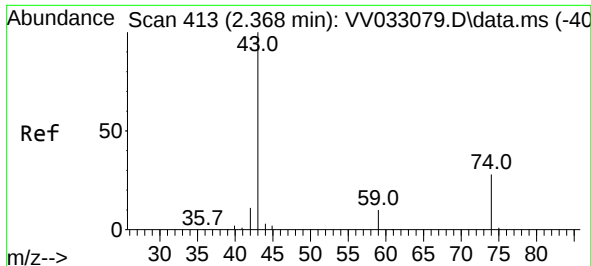
Tgt Ion: 76 Resp: 294091

Ion Ratio Lower Upper

76 100

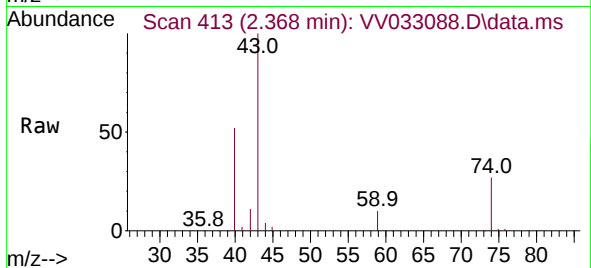
78 9.5 7.4 11.0



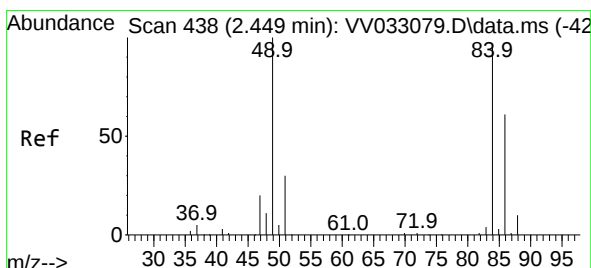
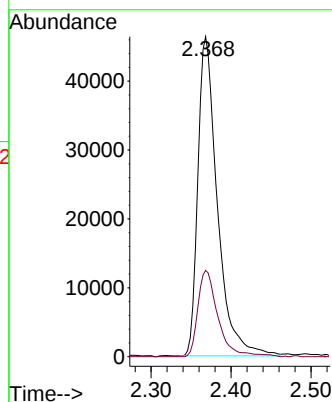
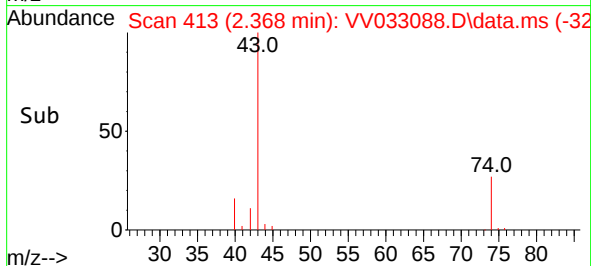


#15  
Methyl Acetate  
Concen: 49.593 ug/L  
RT: 2.368 min Scan# 413  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Instrument :  
MSVOA\_V  
ClientSampleId :

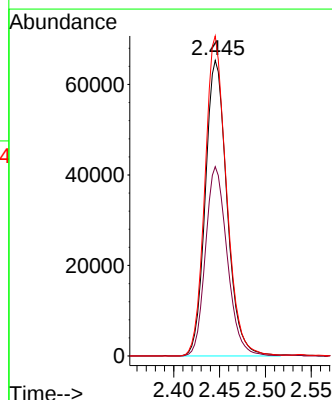
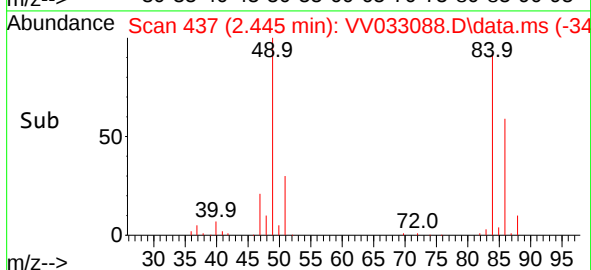
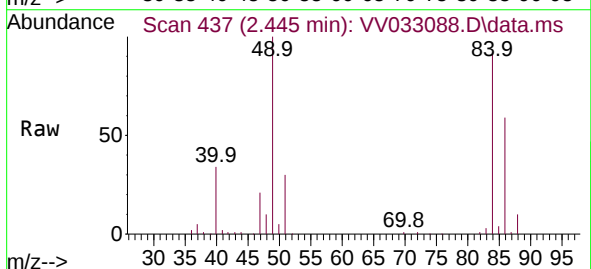


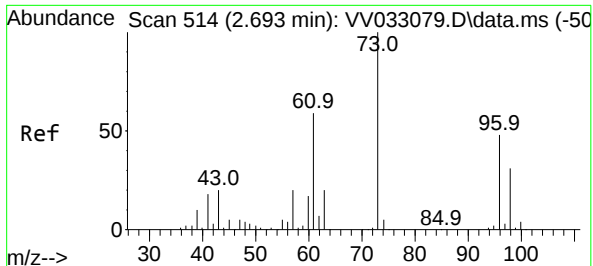
Tgt Ion: 43 Resp: 78822  
Ion Ratio Lower Upper  
43 100  
74 26.7 22.6 33.8



#16  
Methylene chloride  
Concen: 48.174 ug/L  
RT: 2.445 min Scan# 437  
Delta R.T. -0.003 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Tgt Ion: 84 Resp: 107592  
Ion Ratio Lower Upper  
84 100  
86 64.0 45.9 85.3  
49 108.3 75.5 140.1





#17

trans-1,2-Dichloroethene

Concen: 49.052 ug/L

RT: 2.693 min Scan# 514

Delta R.T. -0.000 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

Instrument :

MSVOA\_V

ClientSampleId :

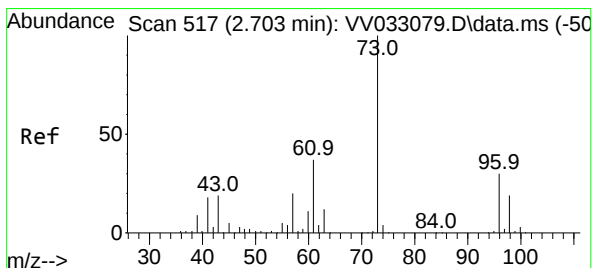
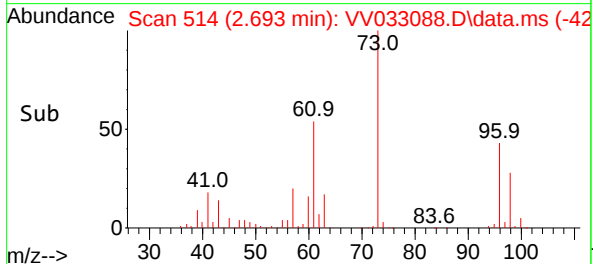
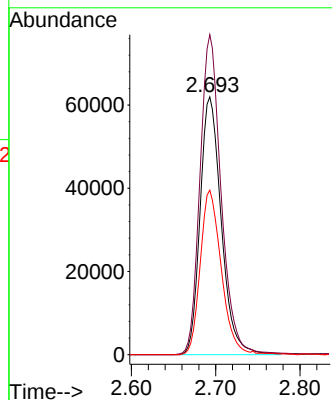
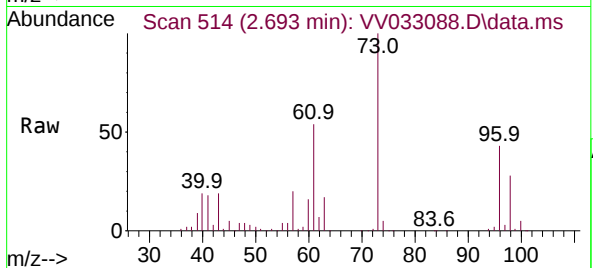
Tgt Ion: 96 Resp: 108626

Ion Ratio Lower Upper

96 100

61 124.1 86.5 160.6

98 63.8 45.1 83.7



#18

Methyl tert-butyl Ether

Concen: 50.188 ug/L

RT: 2.699 min Scan# 516

Delta R.T. -0.003 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

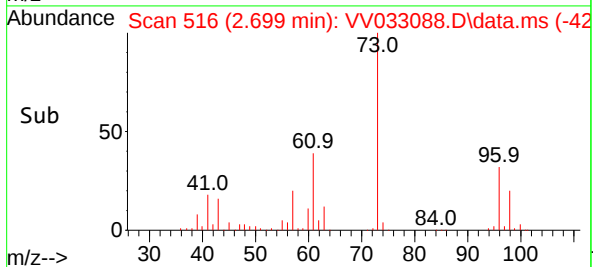
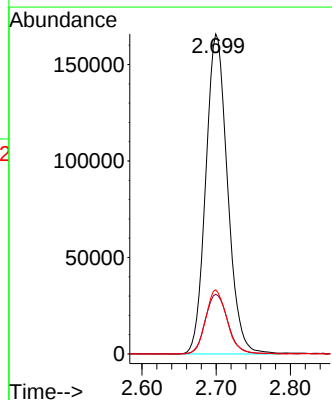
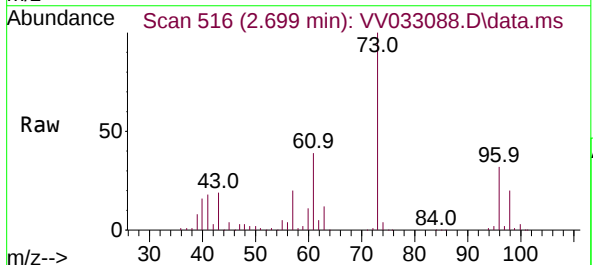
Tgt Ion: 73 Resp: 337628

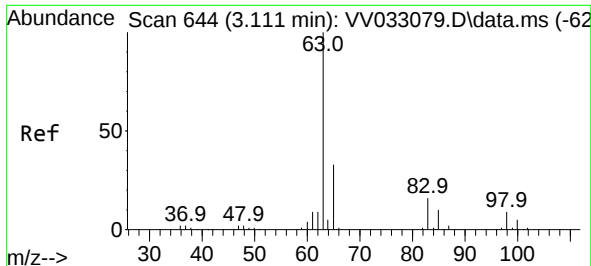
Ion Ratio Lower Upper

73 100

43 19.3 15.4 23.2

57 19.6 16.1 24.1





#19

1,1-Dichloroethane

Concen: 48.889 ug/L

RT: 3.108 min Scan# 64

Delta R.T. -0.003 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

Instrument :

MSVOA\_V

ClientSampleId :

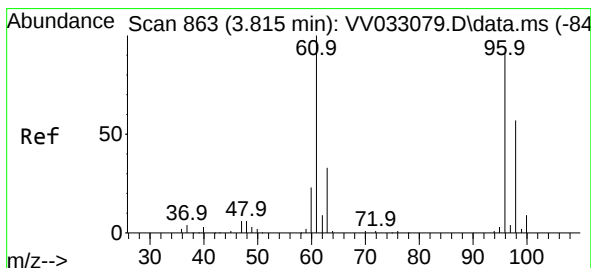
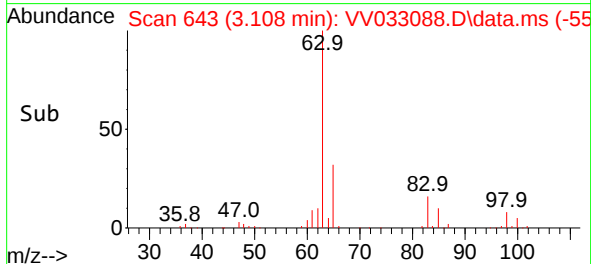
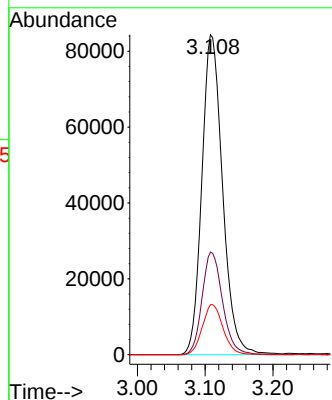
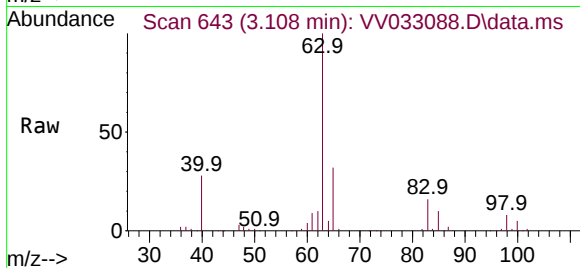
Tgt Ion: 63 Resp: 179190

Ion Ratio Lower Upper

63 100

65 32.1 23.0 42.6

83 15.6 11.4 21.2



#20

cis-1,2-Dichloroethene

Concen: 49.964 ug/L

RT: 3.812 min Scan# 862

Delta R.T. -0.003 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

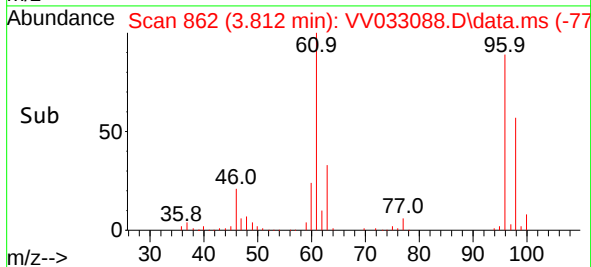
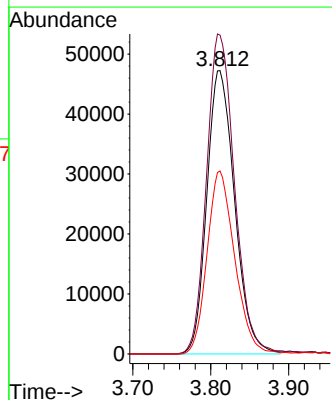
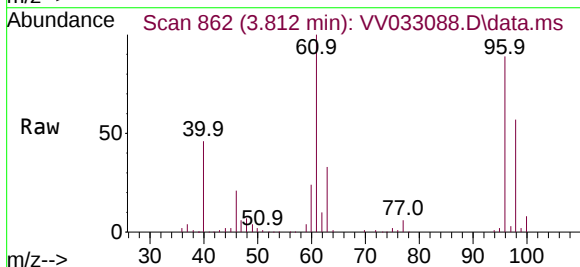
Tgt Ion: 96 Resp: 117403

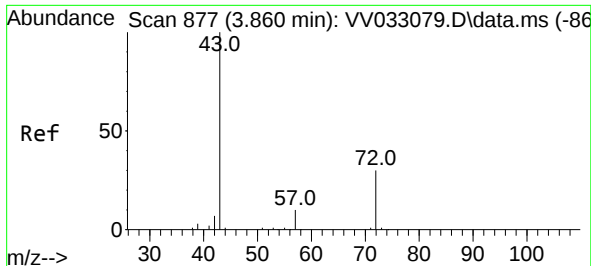
Ion Ratio Lower Upper

96 100

61 112.5 79.1 146.9

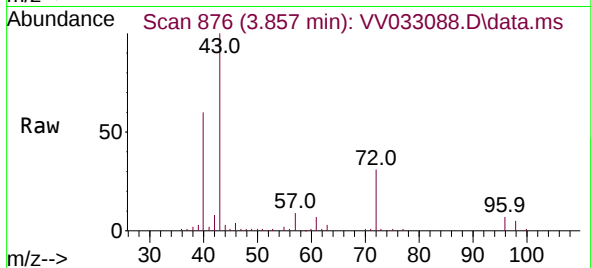
98 64.6 45.1 83.7



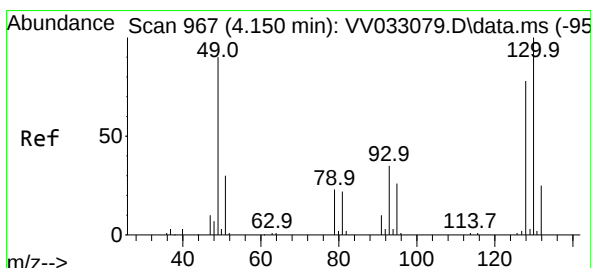
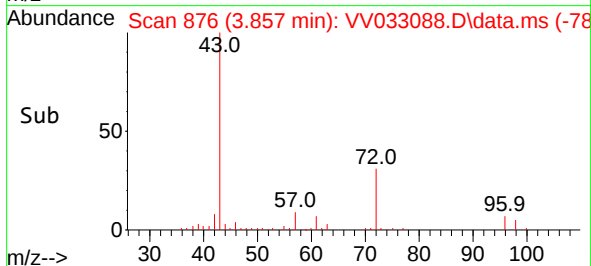
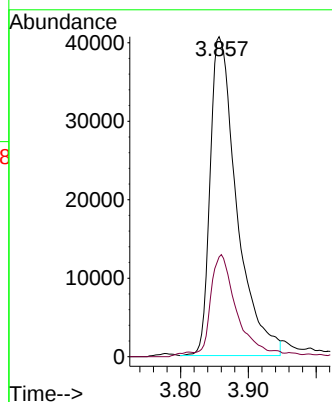


#22  
2-Butanone  
Concen: 91.611 ug/L  
RT: 3.857 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Instrument :  
MSVOA\_V  
ClientSampleId :

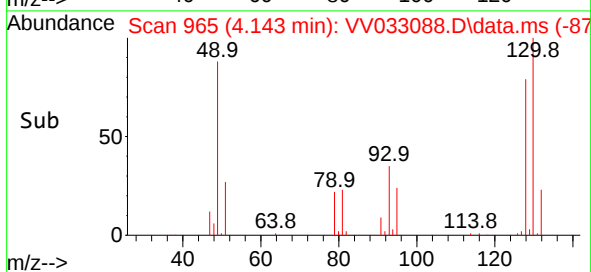
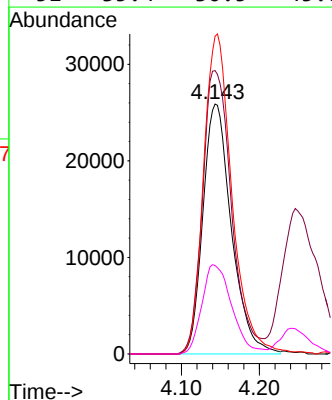
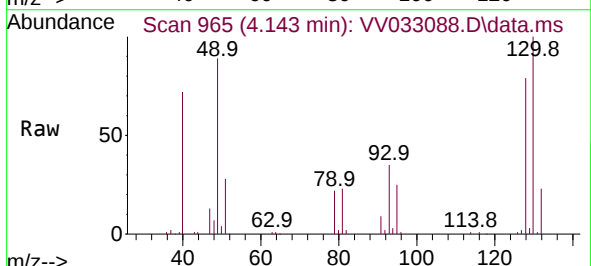


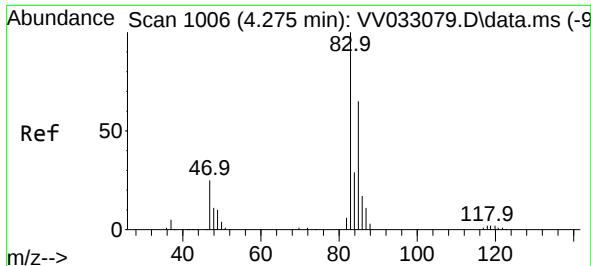
Tgt Ion: 43 Resp: 111174  
Ion Ratio Lower Upper  
43 100  
72 28.3 14.6 43.8



#23  
Bromochloromethane  
Concen: 48.671 ug/L  
RT: 4.143 min Scan# 965  
Delta R.T. -0.007 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Tgt Ion:128 Resp: 65668  
Ion Ratio Lower Upper  
128 100  
49 113.4 81.7 151.7  
130 127.2 90.1 167.3  
51 35.4 30.5 45.7

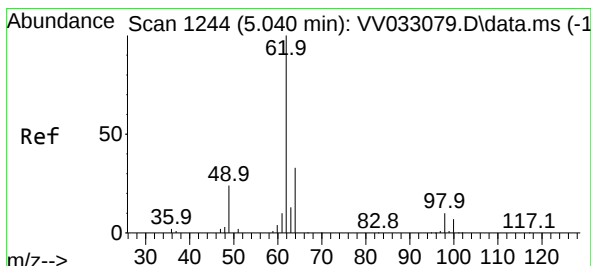
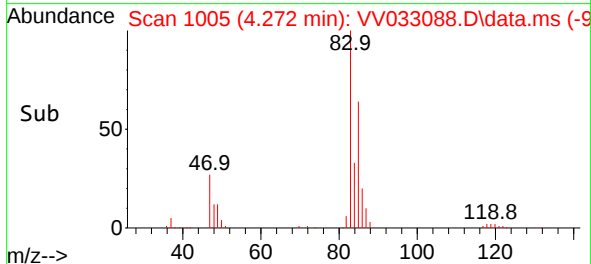
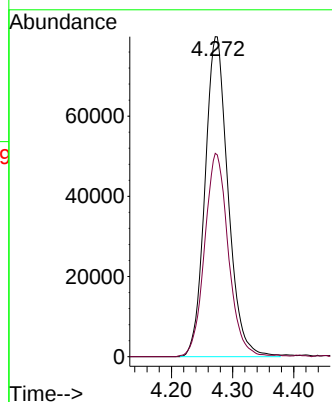
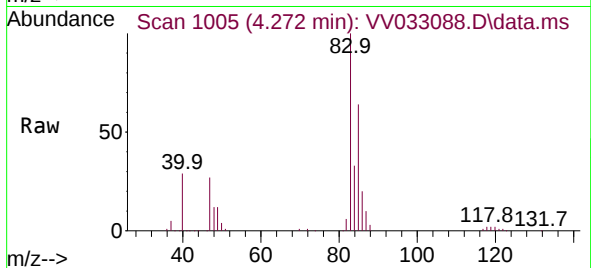




#25  
Chloroform  
Concen: 49.572 ug/L  
RT: 4.272 min Scan# 1006  
Delta R.T. -0.003 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

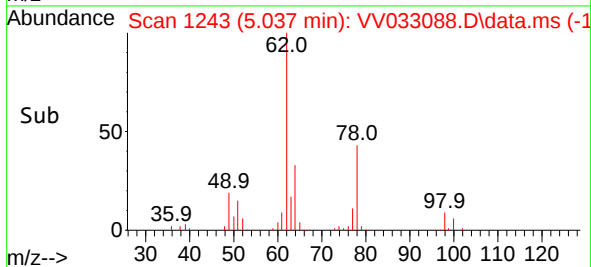
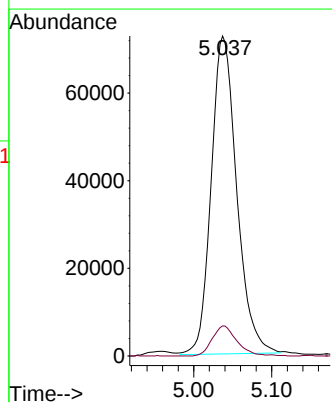
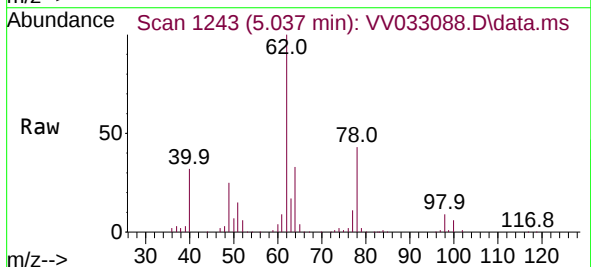
Instrument :  
MSVOA\_V  
ClientSampleId :

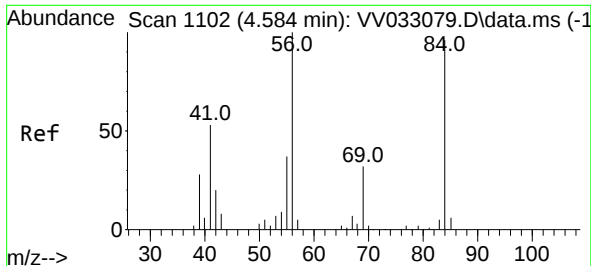
Tgt Ion: 83 Resp: 208963  
Ion Ratio Lower Upper  
83 100  
85 63.6 43.5 80.7



#27  
1,2-Dichloroethane  
Concen: 49.641 ug/L  
RT: 5.037 min Scan# 1243  
Delta R.T. -0.003 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Tgt Ion: 62 Resp: 165353  
Ion Ratio Lower Upper  
62 100  
98 9.4 7.8 11.8

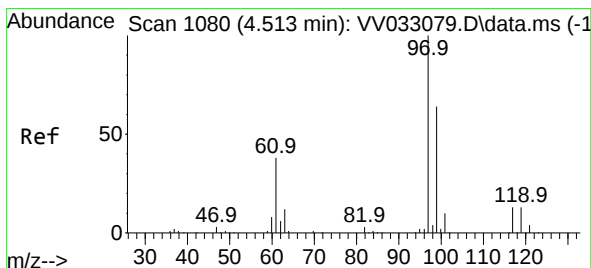
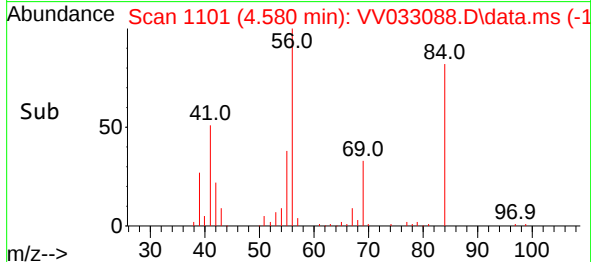
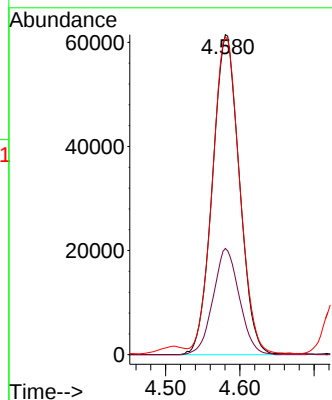
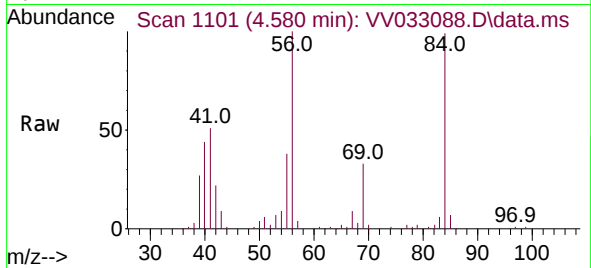




#29  
Cyclohexane  
Concen: 50.089 ug/L  
RT: 4.580 min Scan# 1102  
Delta R.T. -0.003 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

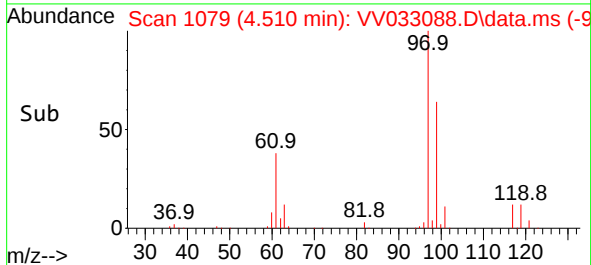
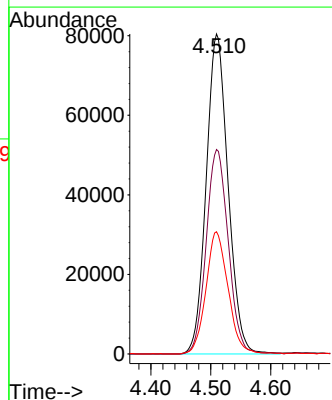
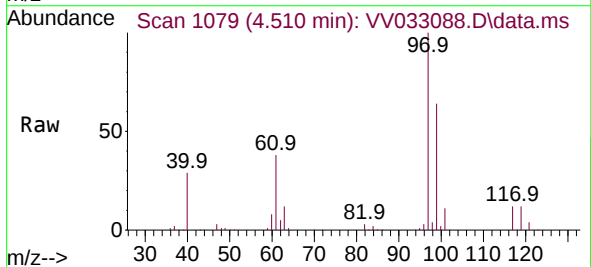
Instrument :  
MSVOA\_V  
ClientSampleId :

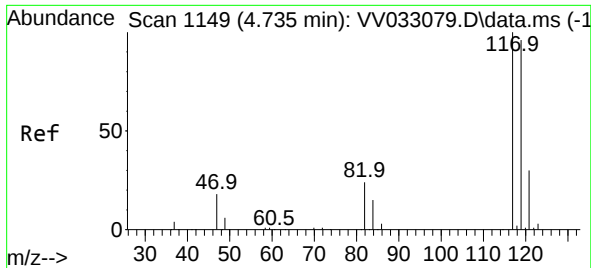
Tgt Ion: 56 Resp: 154659  
Ion Ratio Lower Upper  
56 100  
69 32.3 26.9 40.3  
84 99.9 80.6 121.0



#30  
1,1,1-Trichloroethane  
Concen: 49.415 ug/L  
RT: 4.510 min Scan# 1079  
Delta R.T. -0.003 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Tgt Ion: 97 Resp: 204154  
Ion Ratio Lower Upper  
97 100  
99 64.4 51.3 76.9  
61 38.6 31.8 47.8

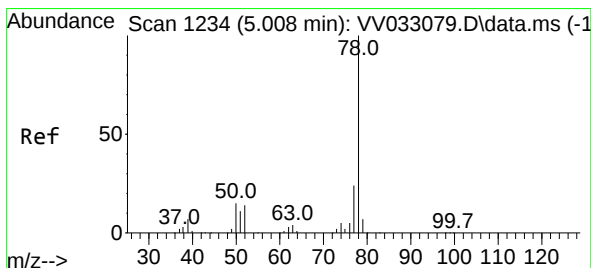
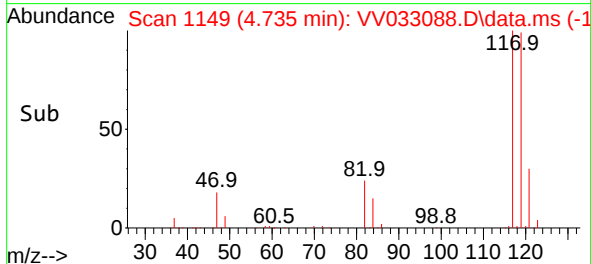
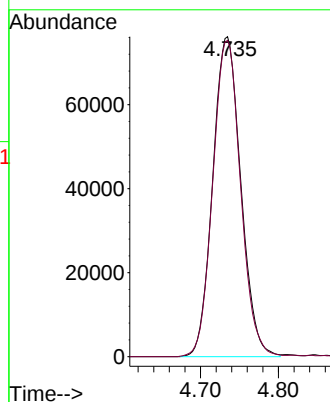
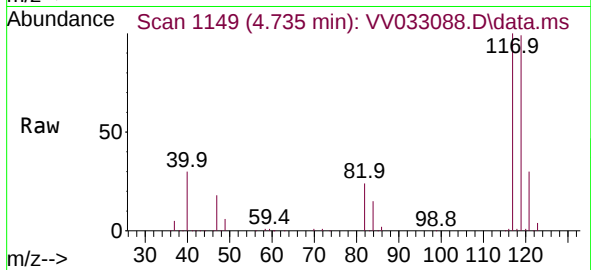




#31  
Carbon tetrachloride  
Concen: 49.638 ug/L  
RT: 4.735 min Scan# 1149  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

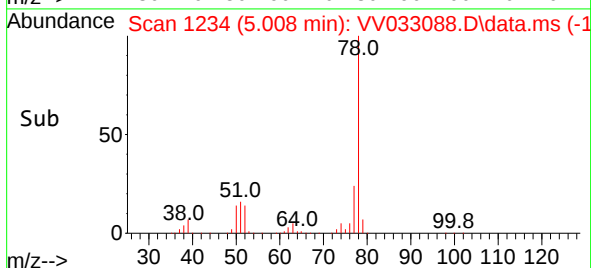
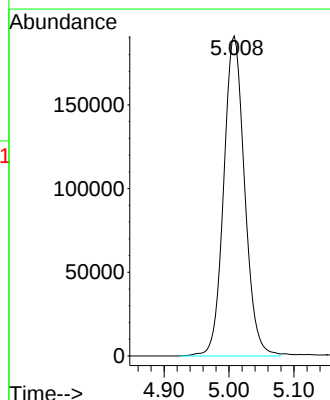
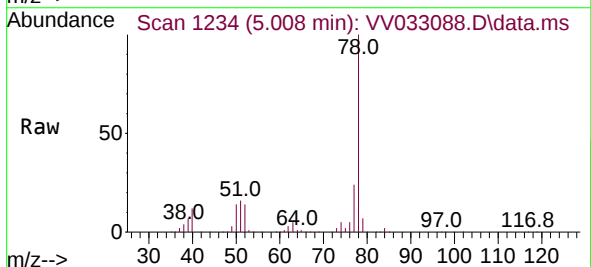
Instrument :  
MSVOA\_V  
ClientSampleId :

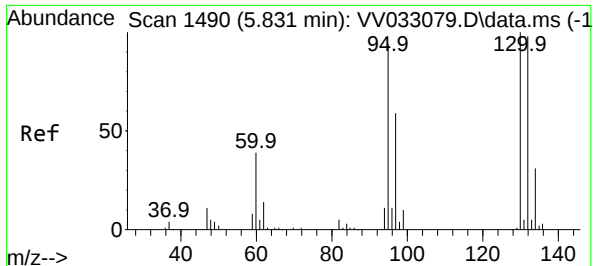
Tgt Ion:117 Resp: 190684  
Ion Ratio Lower Upper  
117 100  
119 97.9 77.5 116.3



#33  
Benzene  
Concen: 50.406 ug/L  
RT: 5.008 min Scan# 1234  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Tgt Ion: 78 Resp: 427004





#34

Trichloroethene

Concen: 49.049 ug/L

RT: 5.831 min Scan# 1490

Delta R.T. -0.000 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

Instrument :

MSVOA\_V

ClientSampleId :

Tgt Ion: 95 Resp: 124134

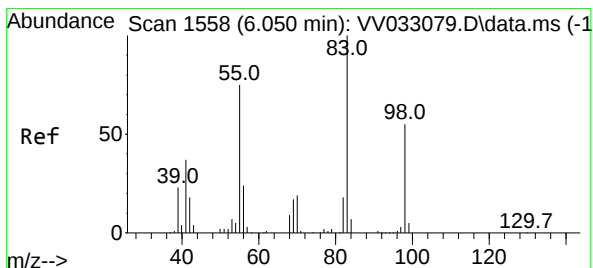
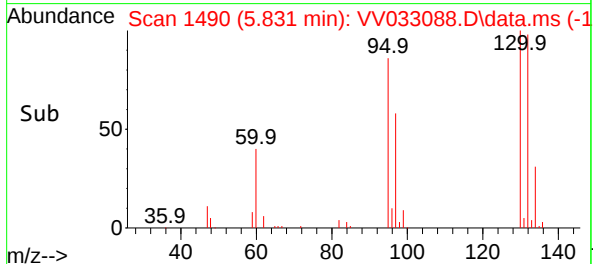
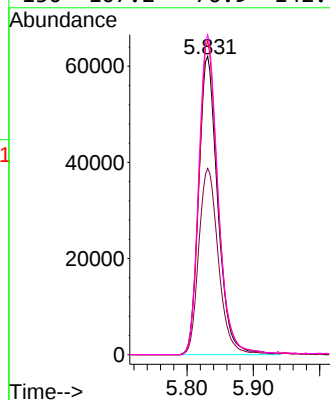
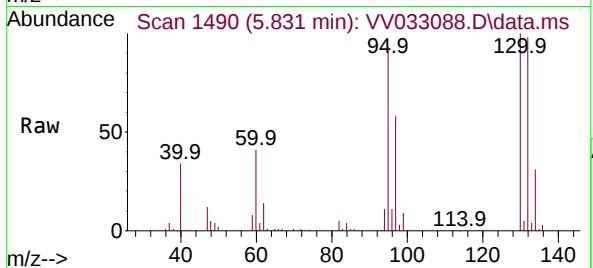
Ion Ratio Lower Upper

95 100

97 62.4 45.8 85.0

132 105.2 77.4 143.8

130 107.2 76.9 142.7



#35

Methylcyclohexane

Concen: 51.134 ug/L

RT: 6.046 min Scan# 1557

Delta R.T. -0.003 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

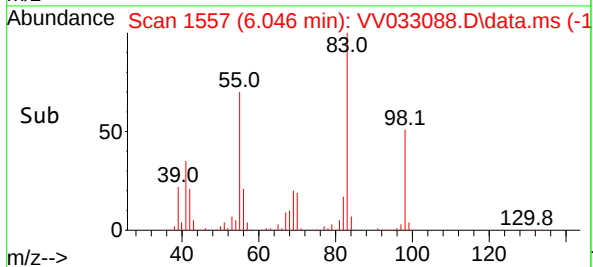
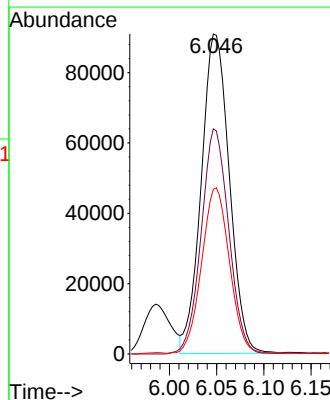
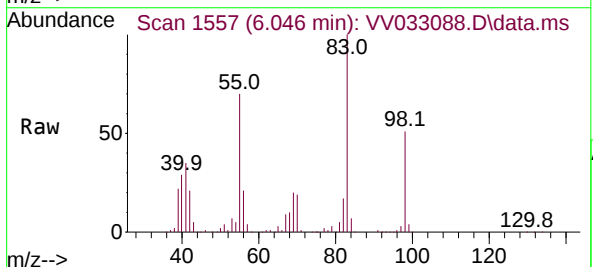
Tgt Ion: 83 Resp: 187819

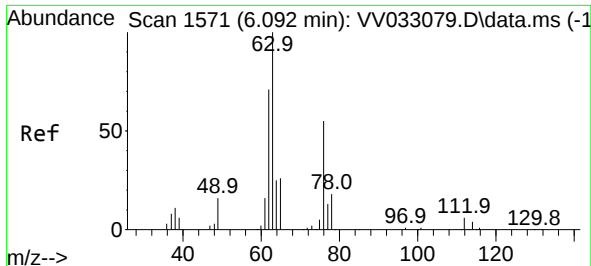
Ion Ratio Lower Upper

83 100

55 69.1 54.8 82.2

98 51.6 41.4 62.0





#37

1,2-Dichloropropane

Concen: 49.991 ug/L

RT: 6.091 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

Instrument :

MSVOA\_V

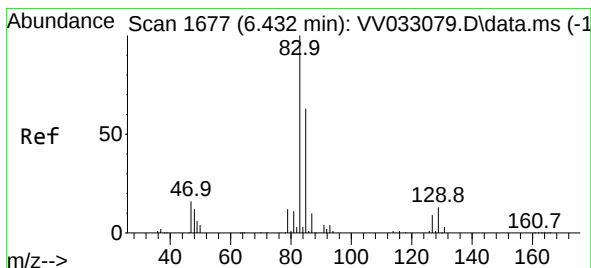
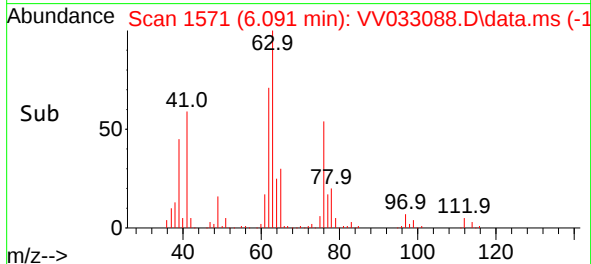
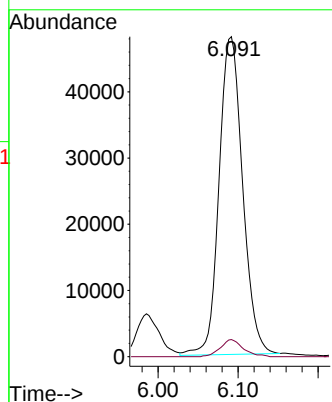
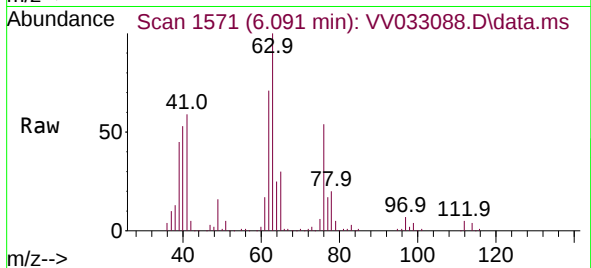
ClientSampleId :

Tgt Ion: 63 Resp: 98009

Ion Ratio Lower Upper

63 100

112 5.1 4.6 6.8



#38

Bromodichloromethane

Concen: 50.480 ug/L

RT: 6.429 min Scan# 1676

Delta R.T. -0.003 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

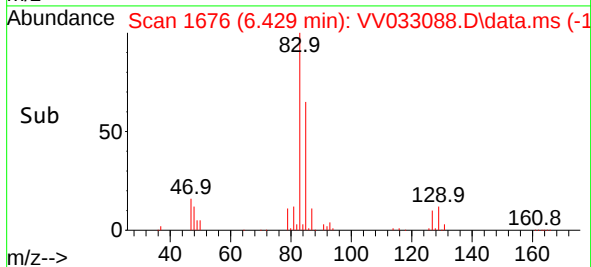
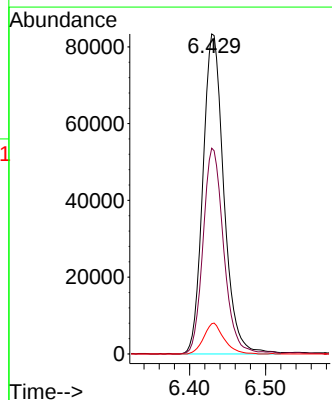
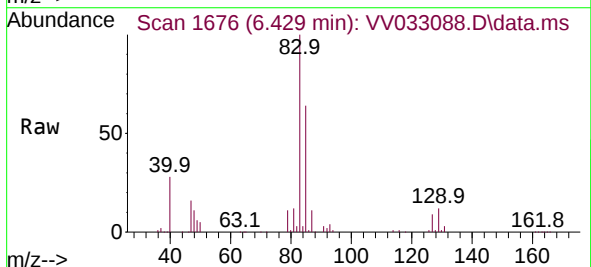
Tgt Ion: 83 Resp: 159550

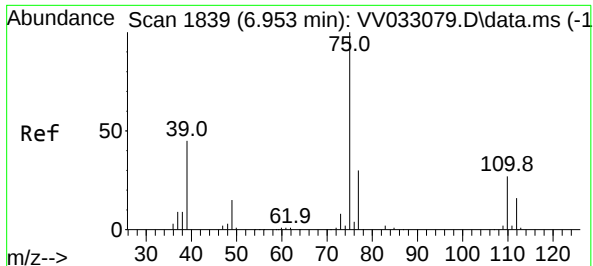
Ion Ratio Lower Upper

83 100

85 64.3 45.6 84.6

127 9.5 7.4 11.2





#39

cis-1,3-Dichloropropene

Concen: 49.691 ug/L

RT: 6.950 min Scan# 1839

Delta R.T. -0.003 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

Instrument :

MSVOA\_V

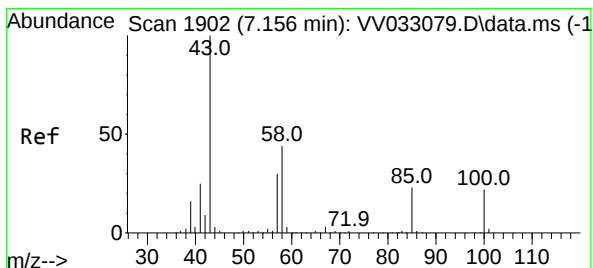
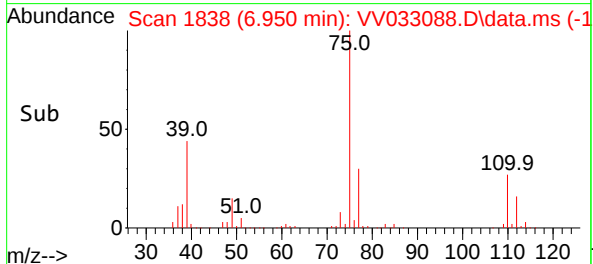
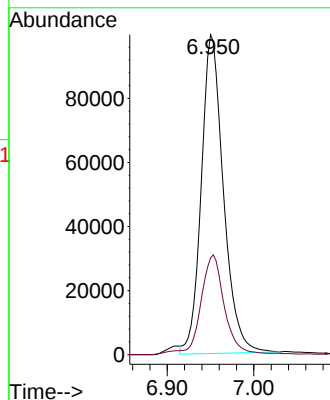
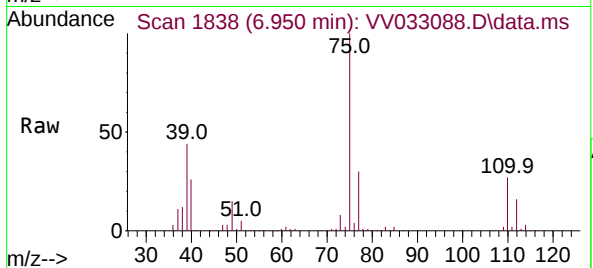
ClientSampleId :

Tgt Ion: 75 Resp: 176777

Ion Ratio Lower Upper

75 100

77 30.2 22.4 41.6



#40

4-Methyl-2-pentanone

Concen: 100.598 ug/L

RT: 7.153 min Scan# 1901

Delta R.T. -0.003 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

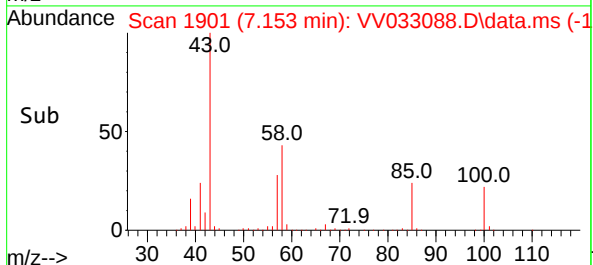
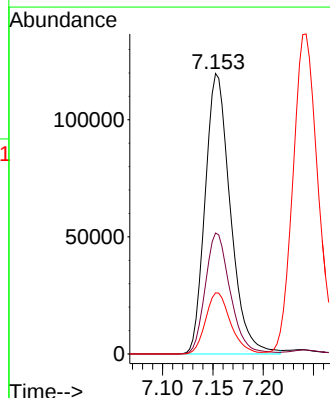
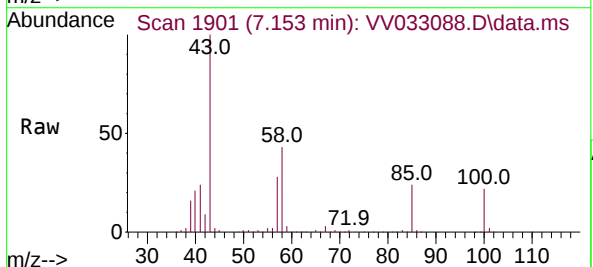
Tgt Ion: 43 Resp: 209406

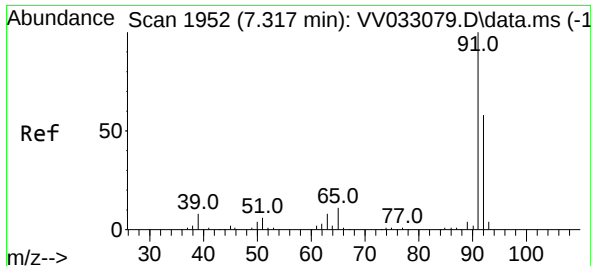
Ion Ratio Lower Upper

43 100

58 42.6 34.5 51.7

100 21.5 17.0 25.6





#42

Toluene

Concen: 50.738 ug/L

RT: 7.313 min Scan# 1951

Delta R.T. -0.003 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

Instrument :

MSVOA\_V

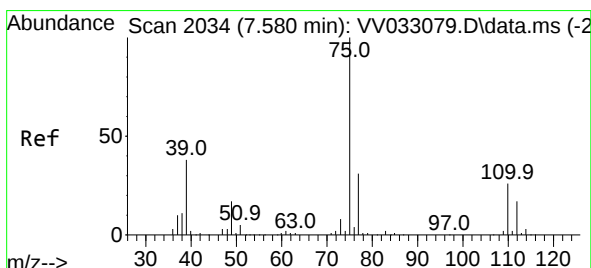
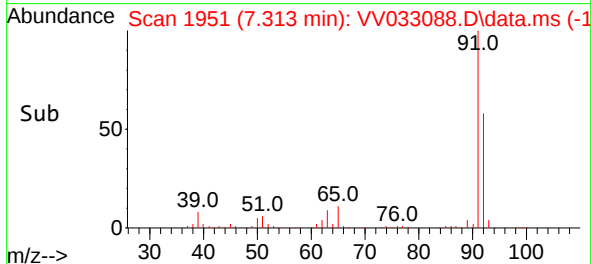
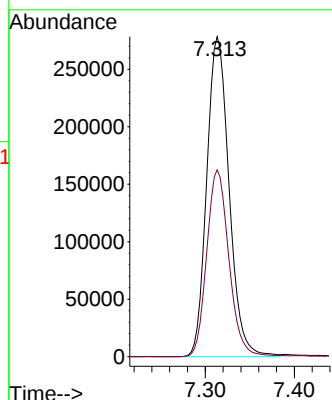
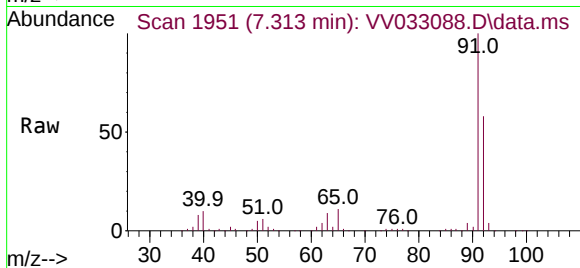
ClientSampleId :

Tgt Ion: 91 Resp: 484346

Ion Ratio Lower Upper

91 100

92 58.4 41.3 76.7



#44

trans-1,3-Dichloropropene

Concen: 50.926 ug/L

RT: 7.577 min Scan# 2033

Delta R.T. -0.003 min

Lab File: VV033088.D

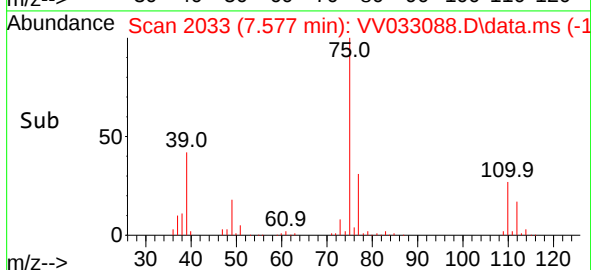
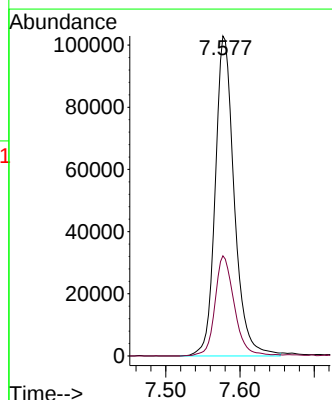
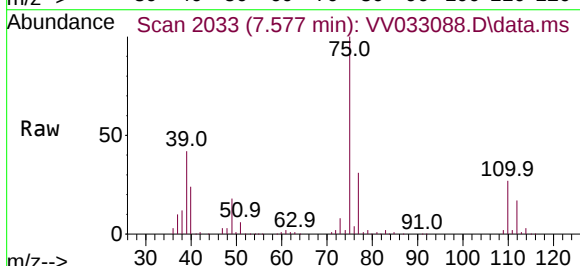
Acq: 04 Dec 2023 09:23

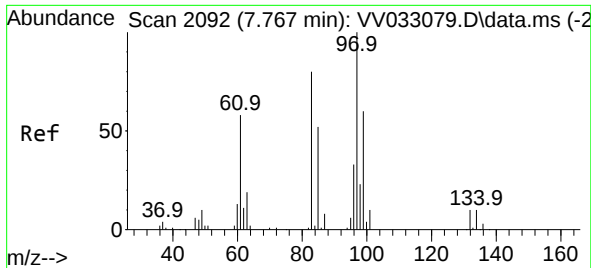
Tgt Ion: 75 Resp: 183196

Ion Ratio Lower Upper

75 100

77 31.3 22.0 41.0



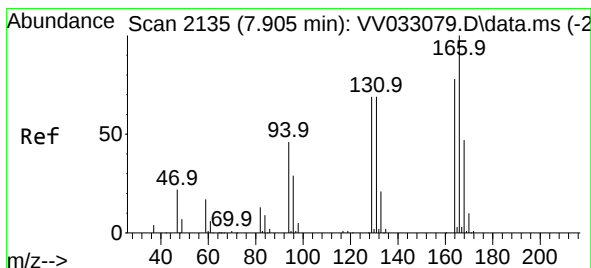
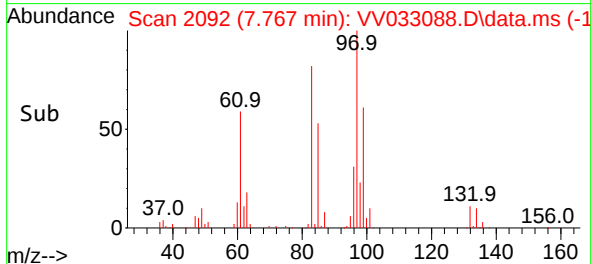
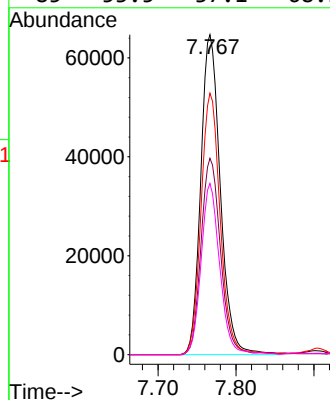
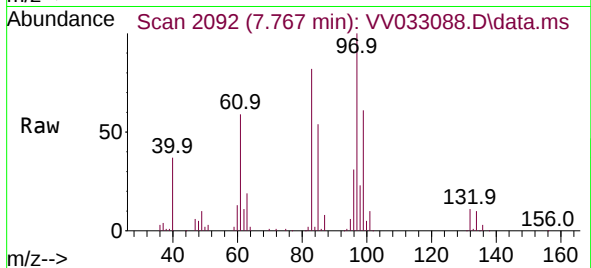


#45  
1,1,2-Trichloroethane  
Concen: 49.727 ug/L  
RT: 7.767 min Scan# 2092  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion: 97 Resp: 113038

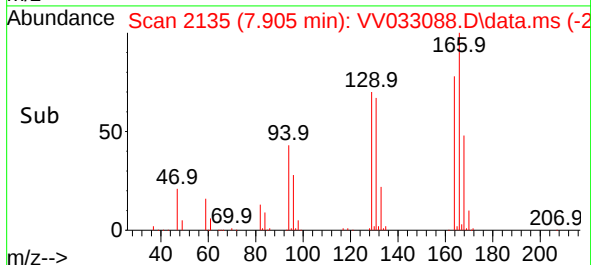
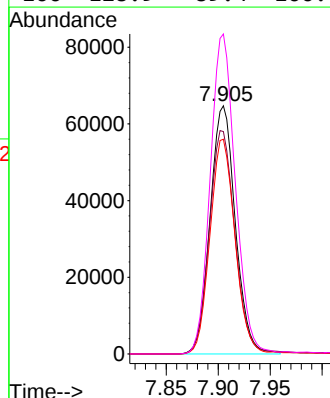
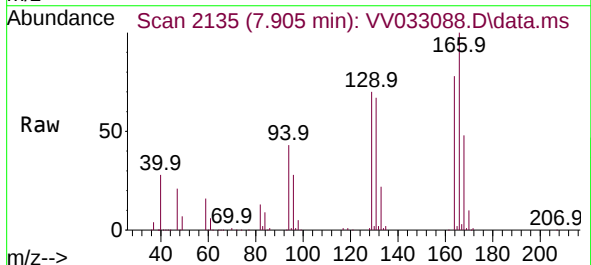
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 61.3  | 43.2  | 80.2  |
| 83  | 81.7  | 55.8  | 103.6 |
| 85  | 53.5  | 37.1  | 68.9  |

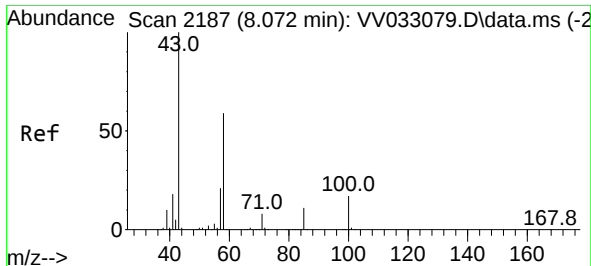


#46  
Tetrachloroethene  
Concen: 50.156 ug/L  
RT: 7.905 min Scan# 2135  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Tgt Ion: 164 Resp: 109119

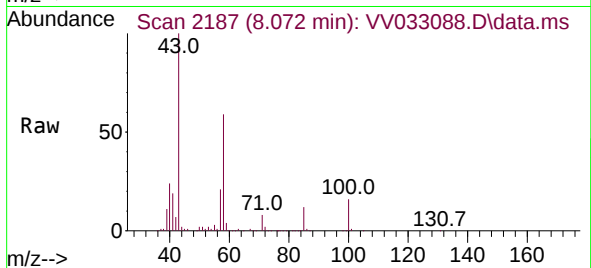
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 89.6  | 65.6  | 121.8 |
| 131 | 86.5  | 64.7  | 120.1 |
| 166 | 128.9 | 89.4  | 166.0 |





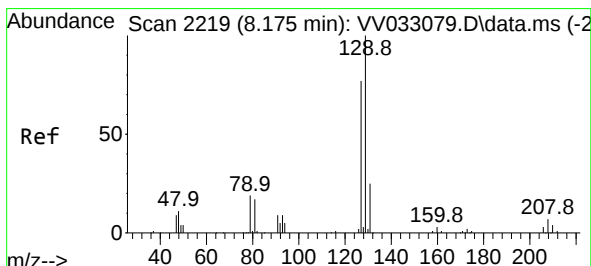
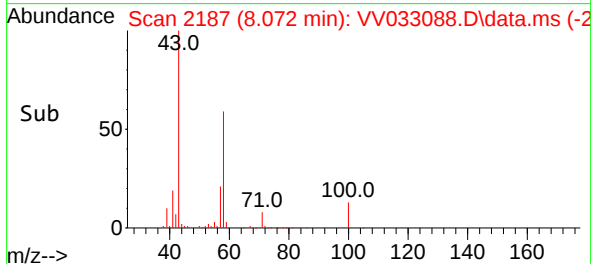
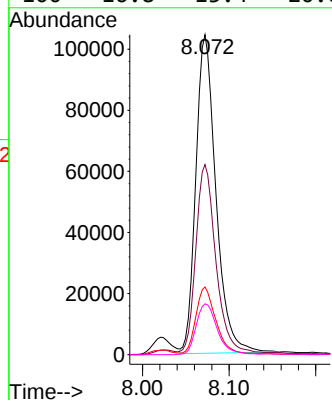
#48  
2-Hexanone  
Concen: 97.698 ug/L  
RT: 8.072 min Scan# 2187  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Instrument :  
MSVOA\_V  
ClientSampleId :



Tgt Ion: 43 Resp: 168613

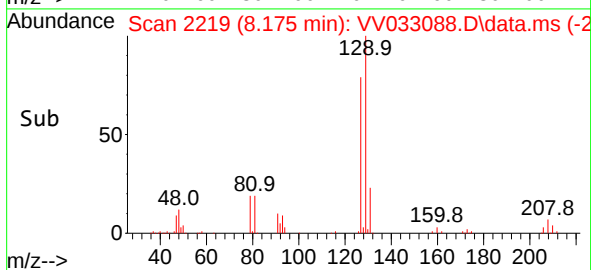
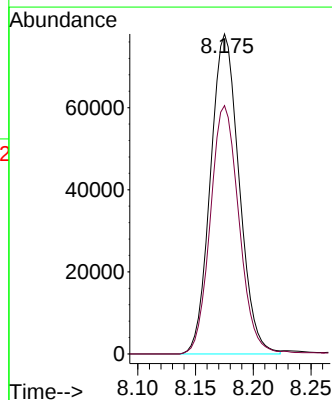
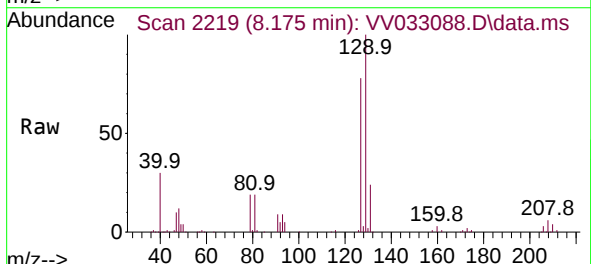
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 58.6  | 47.9  | 71.9  |
| 57  | 20.3  | 17.4  | 26.0  |
| 100 | 16.8  | 13.4  | 20.0  |

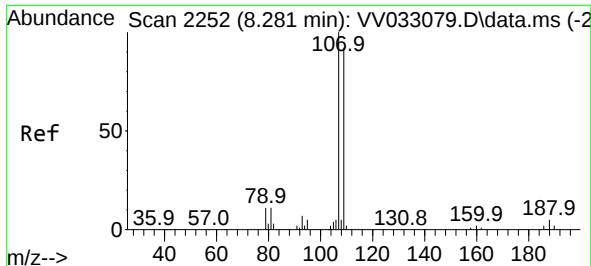


#49  
Dibromochloromethane  
Concen: 49.604 ug/L  
RT: 8.175 min Scan# 2219  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Tgt Ion: 129 Resp: 134607

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 77.6  | 54.1  | 100.5 |





#50

1,2-Dibromoethane

Concen: 48.540 ug/L

RT: 8.281 min Scan# 21

Delta R.T. -0.000 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

Instrument :

MSVOA\_V

ClientSampleId :

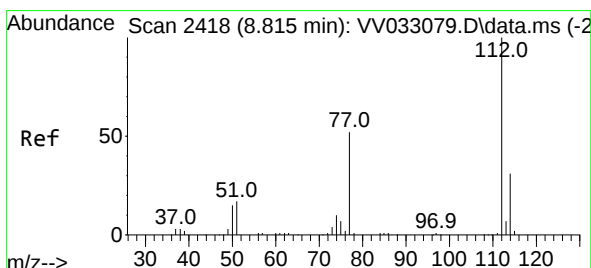
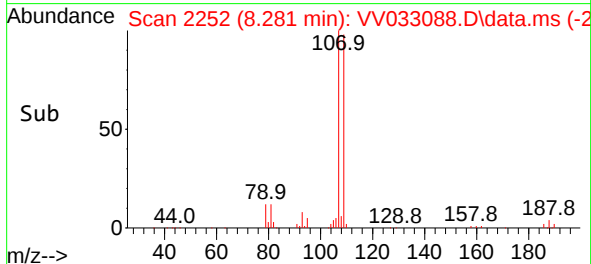
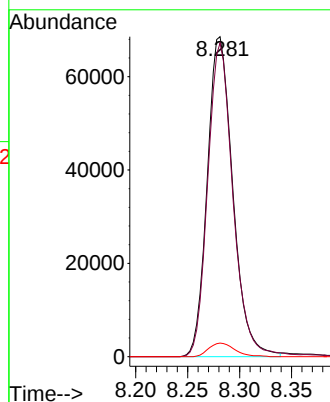
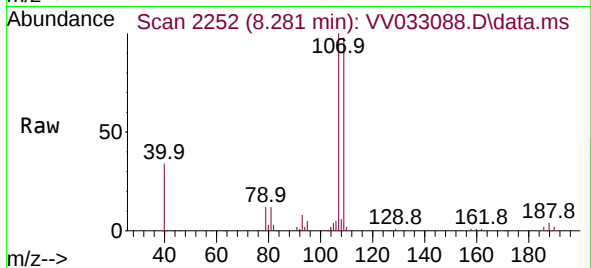
Tgt Ion:107 Resp: 117639

Ion Ratio Lower Upper

107 100

109 98.0 65.2 121.2

188 4.2 3.8 5.6



#51

Chlorobenzene

Concen: 48.980 ug/L

RT: 8.812 min Scan# 2417

Delta R.T. -0.003 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

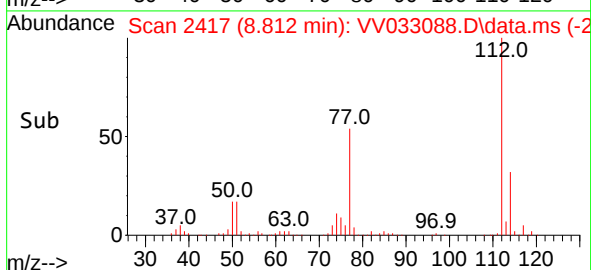
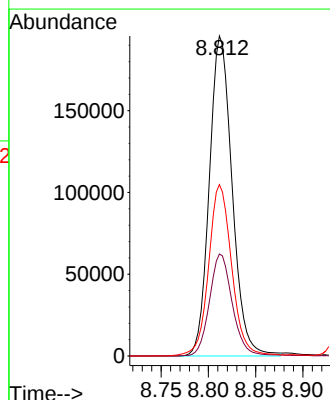
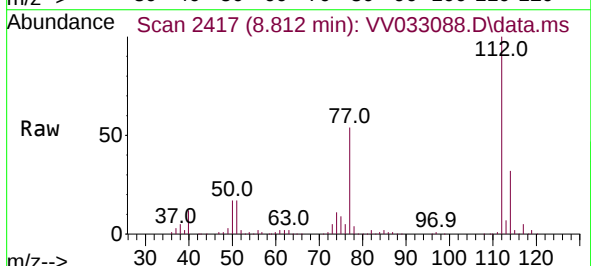
Tgt Ion:112 Resp: 328797

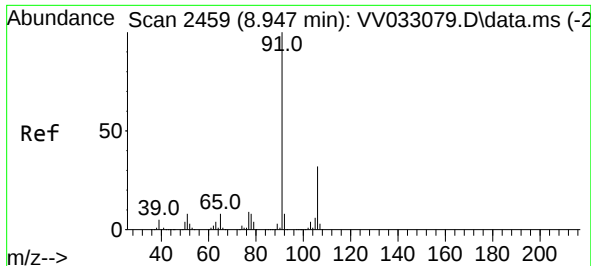
Ion Ratio Lower Upper

112 100

114 31.9 22.9 42.5

77 53.5 42.6 64.0

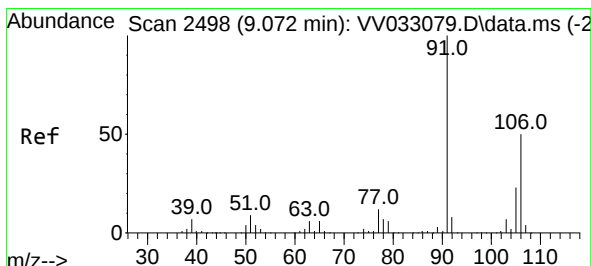
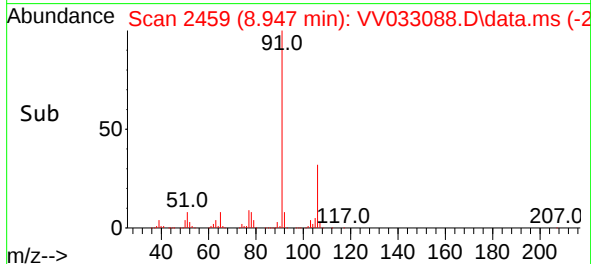
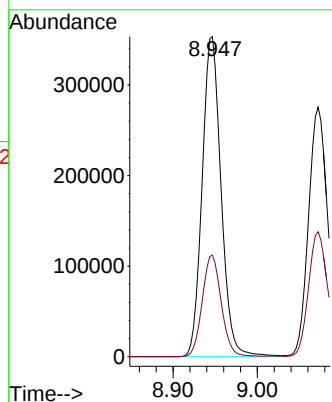
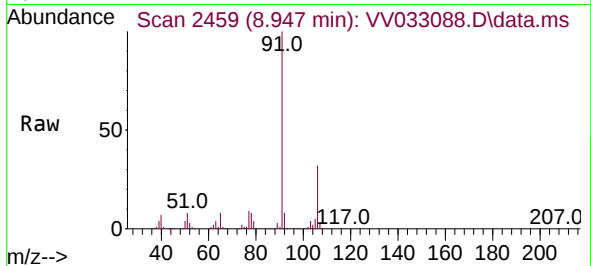




#52  
Ethylbenzene  
Concen: 50.406 ug/L  
RT: 8.947 min Scan# 2459  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

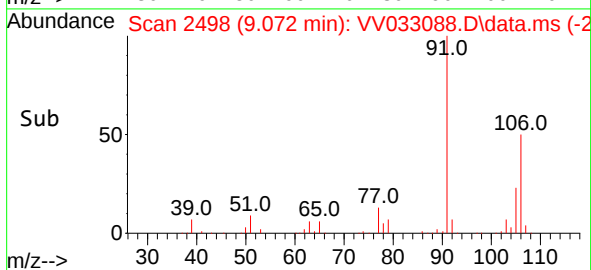
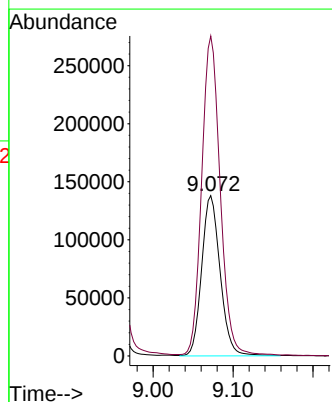
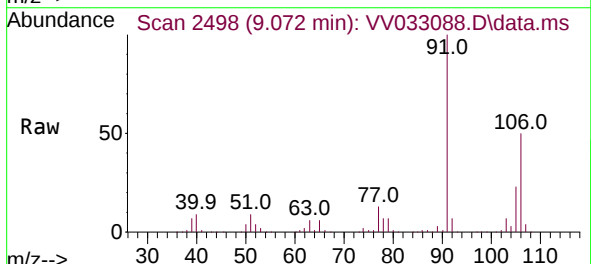
Instrument :  
MSVOA\_V  
ClientSampleId :

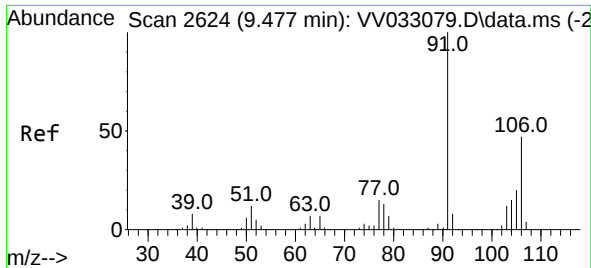
Tgt Ion: 91 Resp: 553856  
Ion Ratio Lower Upper  
91 100  
106 31.7 22.6 42.0



#53  
m,p-Xylene  
Concen: 50.969 ug/L  
RT: 9.072 min Scan# 2498  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Tgt Ion:106 Resp: 221784  
Ion Ratio Lower Upper  
106 100  
91 199.6 145.2 269.6

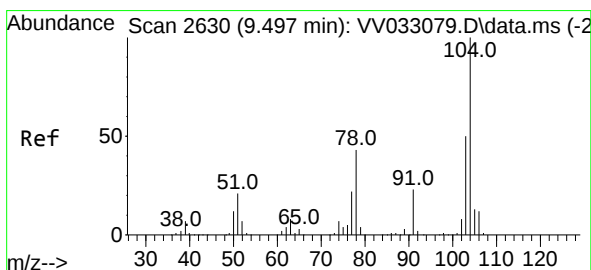
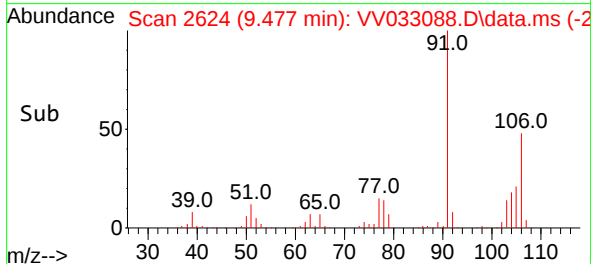
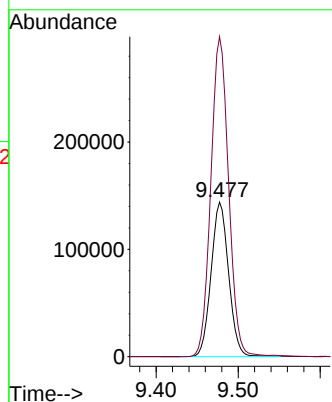
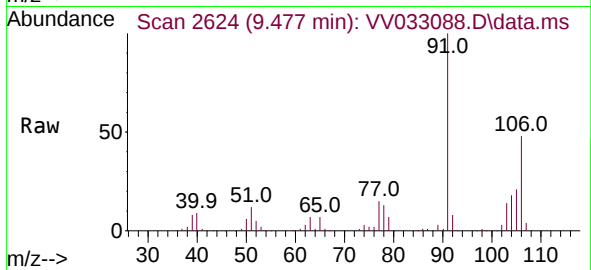




#54  
o-Xylene  
Concen: 49.821 ug/L  
RT: 9.477 min Scan# 2624  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

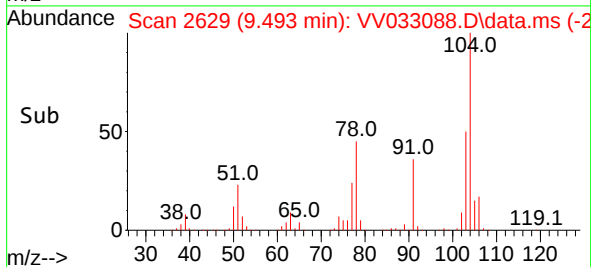
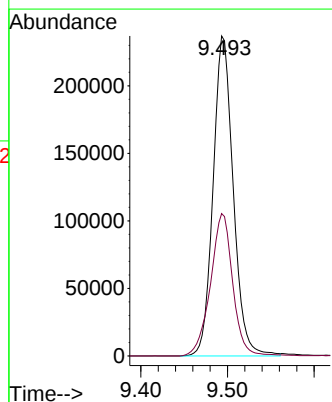
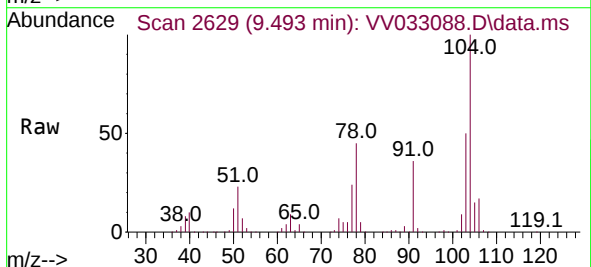
Instrument :  
MSVOA\_V  
ClientSampleId :

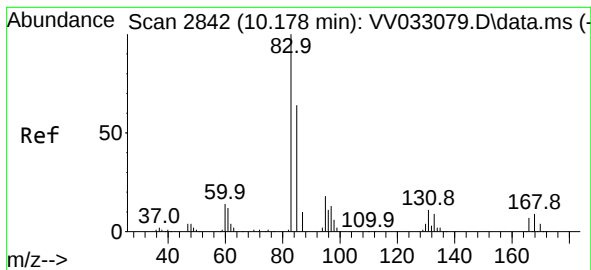
Tgt Ion:106 Resp: 213921  
Ion Ratio Lower Upper  
106 100  
91 207.1 147.8 274.6



#55  
Styrene  
Concen: 51.568 ug/L  
RT: 9.493 min Scan# 2629  
Delta R.T. -0.003 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Tgt Ion:104 Resp: 383045  
Ion Ratio Lower Upper  
104 100  
78 44.5 30.2 56.0

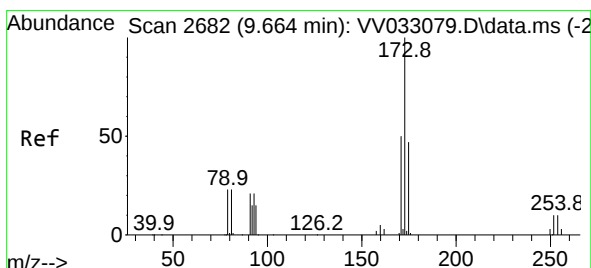
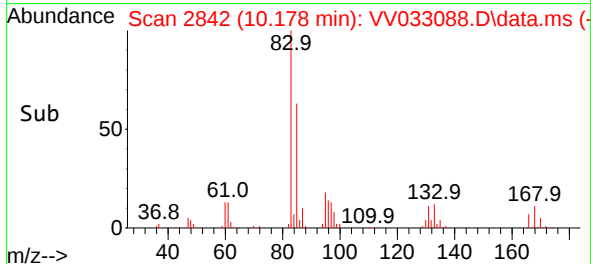
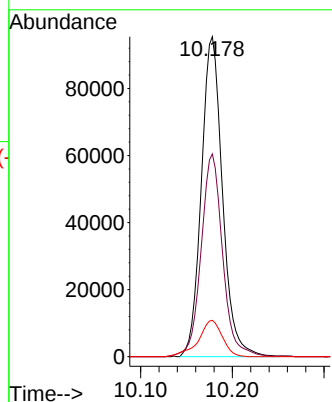
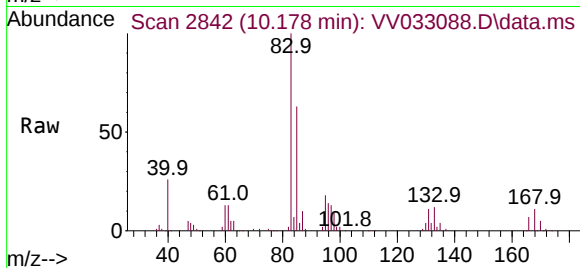




#57  
1,1,2,2-Tetrachloroethane  
Concen: 49.254 ug/L  
RT: 10.178 min Scan# 2842  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

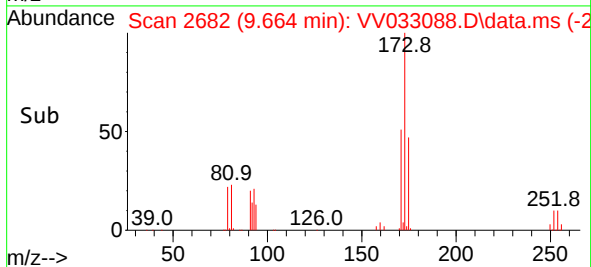
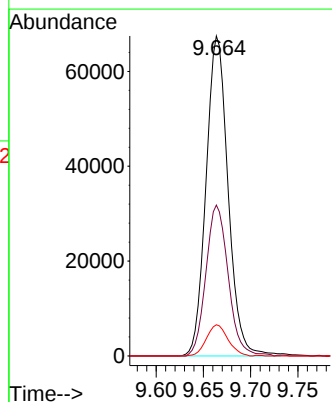
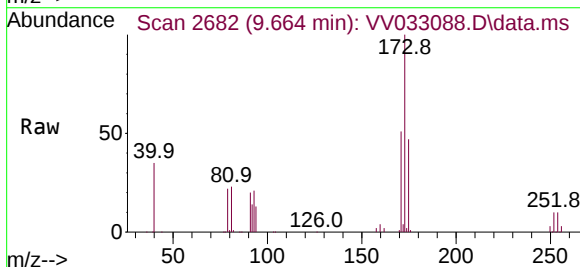
Instrument :  
MSVOA\_V  
ClientSampleId :

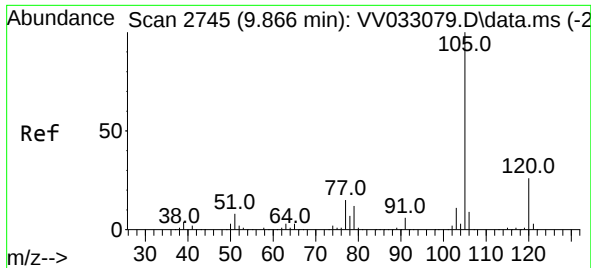
Tgt Ion: 83 Resp: 152972  
Ion Ratio Lower Upper  
83 100  
85 63.3 45.5 84.5  
131 11.4 9.7 14.5



#59  
Bromoform  
Concen: 49.056 ug/L  
RT: 9.664 min Scan# 2682  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Tgt Ion: 173 Resp: 109386  
Ion Ratio Lower Upper  
173 100  
175 47.4 38.7 58.1  
254 9.5 8.0 12.0

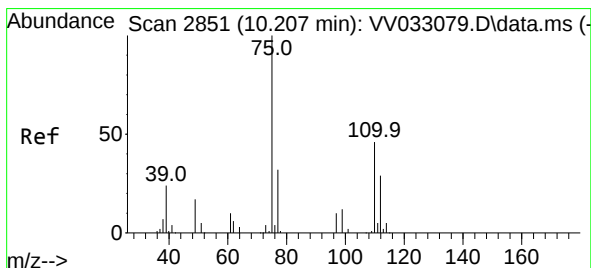
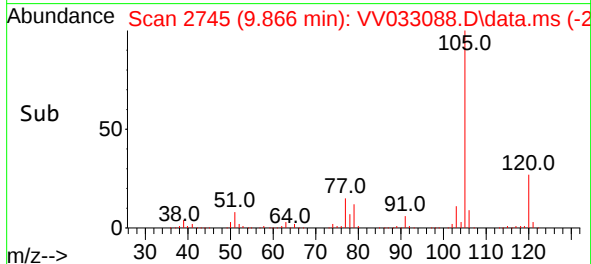
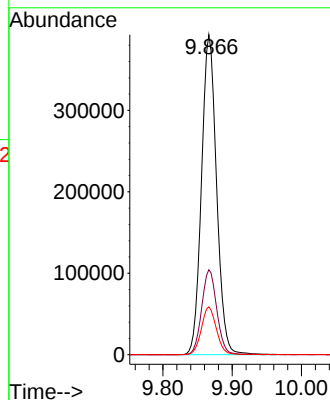
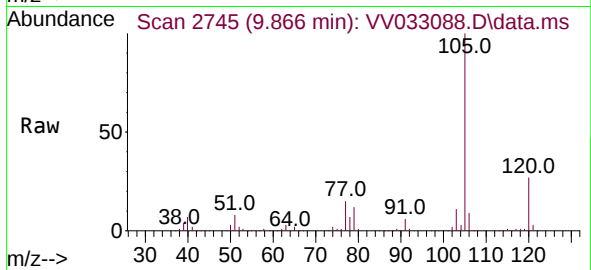




#60  
Isopropylbenzene  
Concen: 50.024 ug/L  
RT: 9.866 min Scan# 2745  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

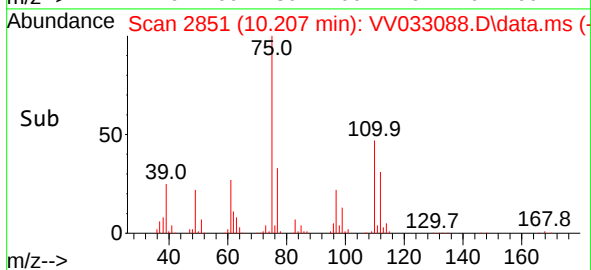
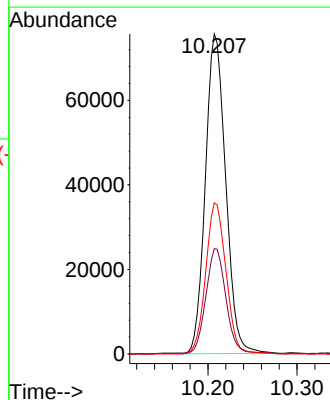
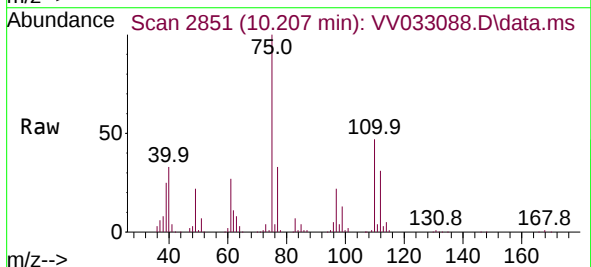
Instrument :  
MSVOA\_V  
ClientSampleId :

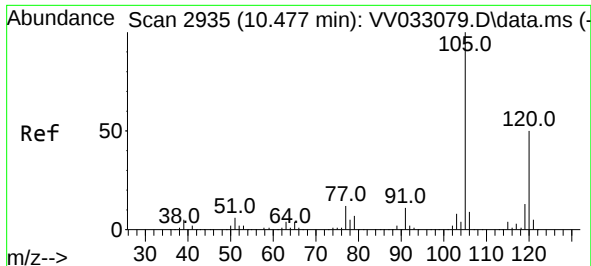
Tgt Ion:105 Resp: 592594  
Ion Ratio Lower Upper  
105 100  
120 26.6 21.3 31.9  
77 15.0 12.0 18.0



#61  
1,2,3-Trichloropropane  
Concen: 46.808 ug/L  
RT: 10.207 min Scan# 2851  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Tgt Ion: 75 Resp: 119913  
Ion Ratio Lower Upper  
75 100  
77 32.0 27.0 40.6  
110 47.1 38.1 57.1

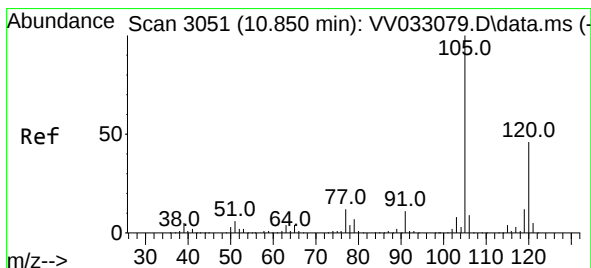
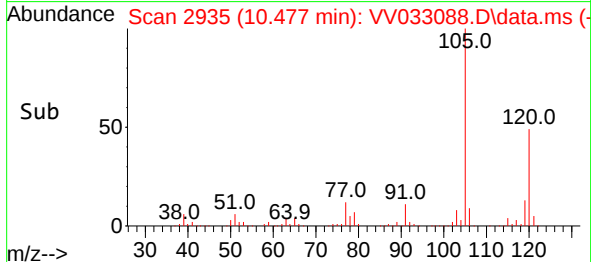
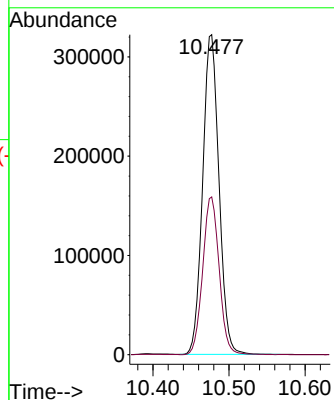
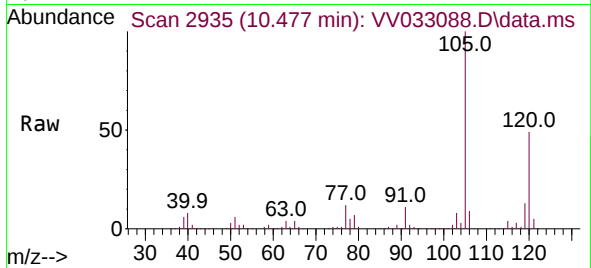




#62  
1,3,5-Trimethylbenzene  
Concen: 50.315 ug/L  
RT: 10.477 min Scan# 2935  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

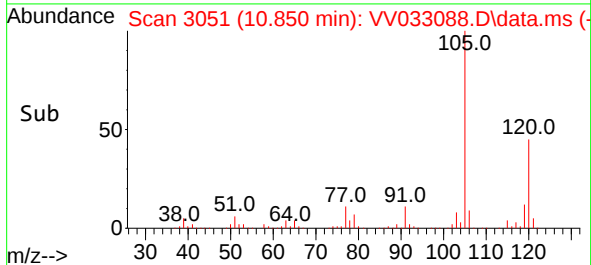
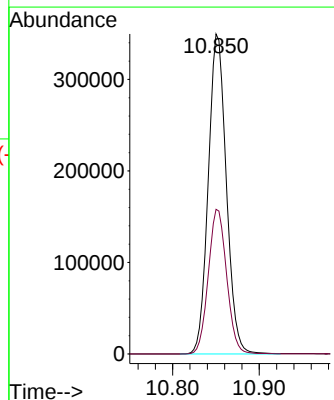
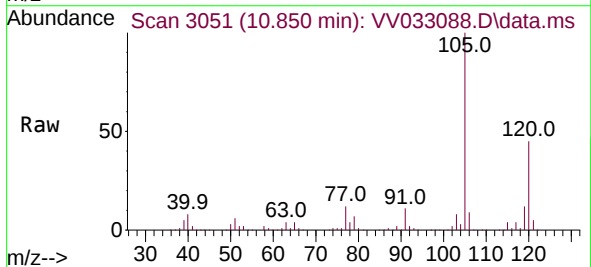
Instrument :  
MSVOA\_V  
ClientSampleId :

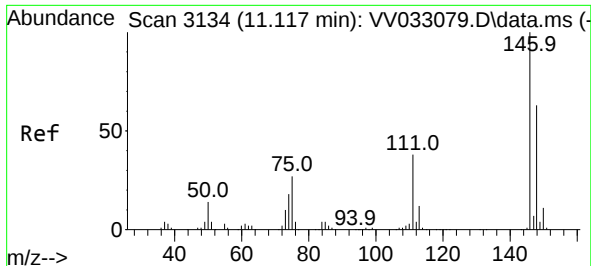
Tgt Ion:105 Resp: 480219  
Ion Ratio Lower Upper  
105 100  
120 49.7 39.7 59.5



#63  
1,2,4-Trimethylbenzene  
Concen: 50.868 ug/L  
RT: 10.850 min Scan# 3051  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Tgt Ion:105 Resp: 505614  
Ion Ratio Lower Upper  
105 100  
120 45.9 36.7 55.1

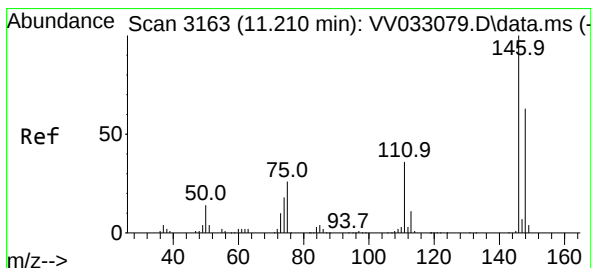
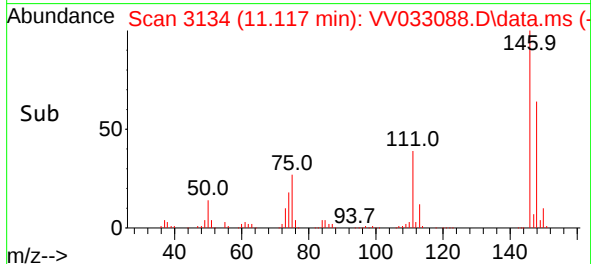
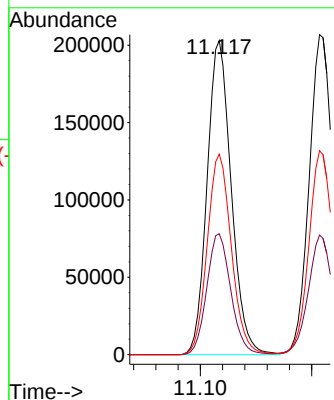
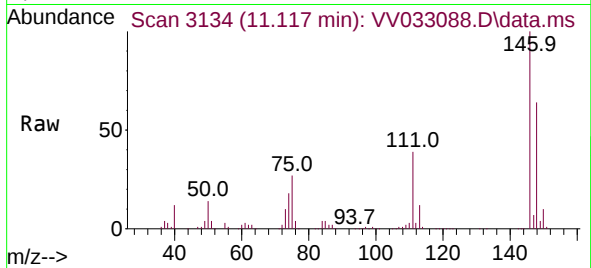




#64  
1,3-Dichlorobenzene  
Concen: 48.345 ug/L  
RT: 11.117 min Scan# 3134  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

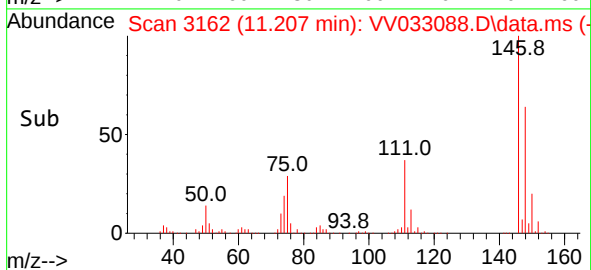
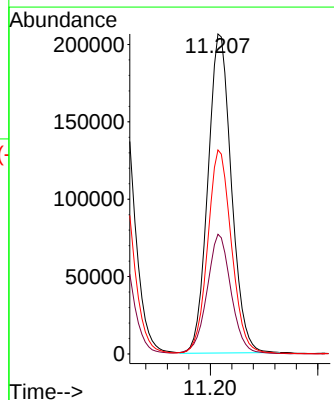
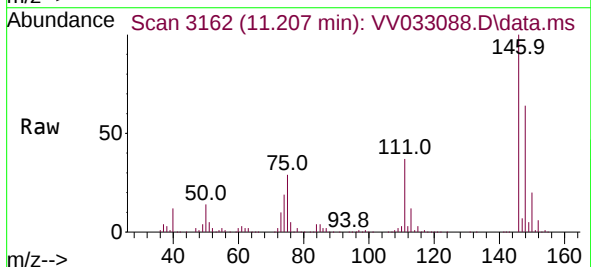
Instrument :  
MSVOA\_V  
ClientSampleId :

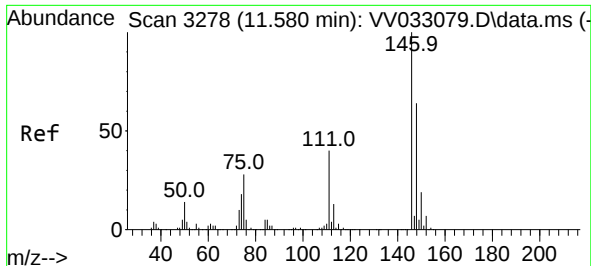
Tgt Ion:146 Resp: 305964  
Ion Ratio Lower Upper  
146 100  
111 38.5 26.2 48.6  
148 63.8 44.5 82.7



#65  
1,4-Dichlorobenzene  
Concen: 47.548 ug/L  
RT: 11.207 min Scan# 3162  
Delta R.T. -0.003 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

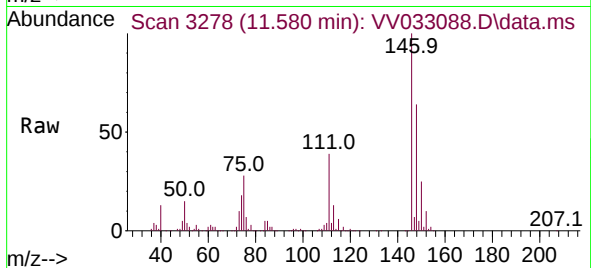
Tgt Ion:146 Resp: 312586  
Ion Ratio Lower Upper  
146 100  
111 37.4 25.9 48.1  
148 63.8 44.9 83.5



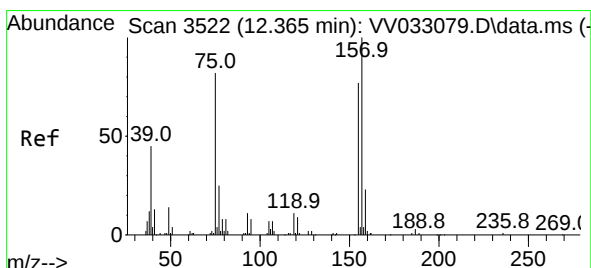
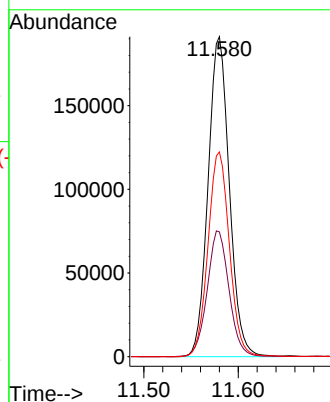
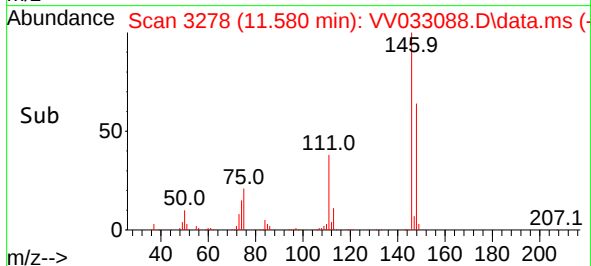


#67  
1,2-Dichlorobenzene  
Concen: 48.112 ug/L  
RT: 11.580 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

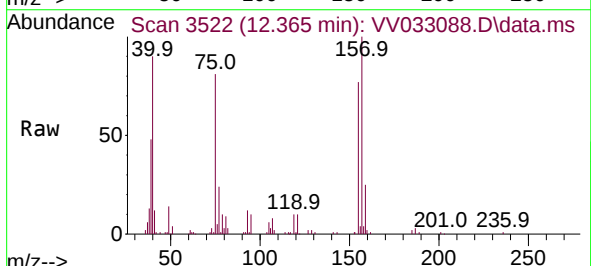
Instrument :  
MSVOA\_V  
ClientSampleId :



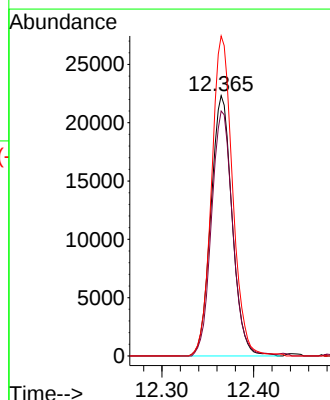
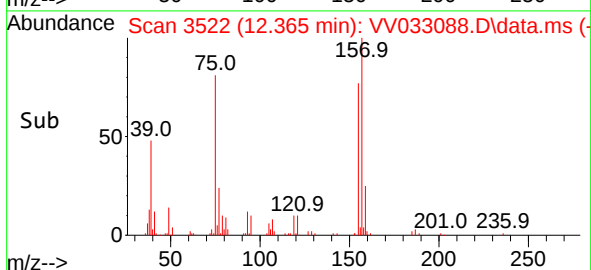
Tgt Ion:146 Resp: 298509  
Ion Ratio Lower Upper  
146 100  
111 39.0 32.4 48.6  
148 64.0 51.8 77.8

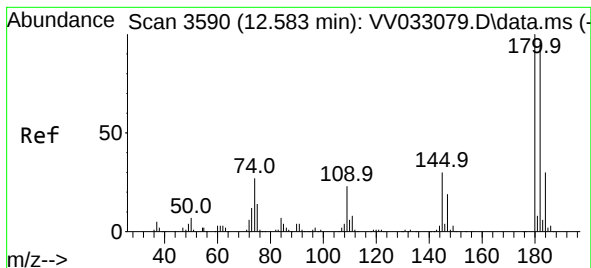


#68  
1,2-Dibromo-3-chloropropane  
Concen: 45.604 ug/L  
RT: 12.365 min Scan# 3522  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23



Tgt Ion: 75 Resp: 35848  
Ion Ratio Lower Upper  
75 100  
155 94.1 75.8 113.6  
157 122.9 95.4 143.0





#69

1,3,5-Trichlorobenzene

Concen: 47.757 ug/L

RT: 12.583 min Scan# 3590

Delta R.T. -0.000 min

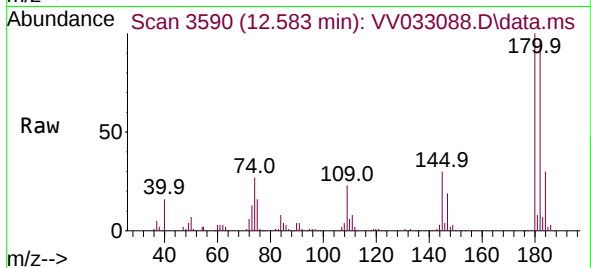
Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

Instrument :

MSVOA\_V

ClientSampleId :



Tgt Ion:180 Resp: 242100

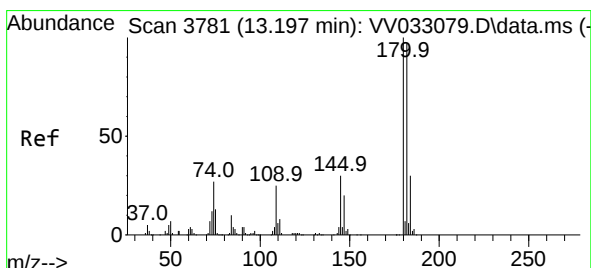
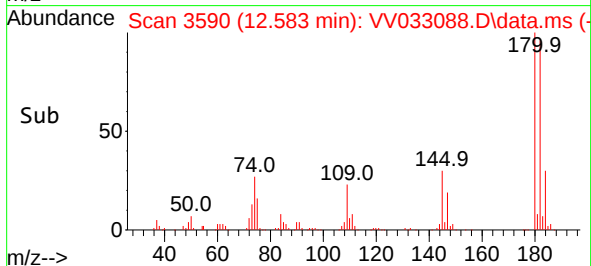
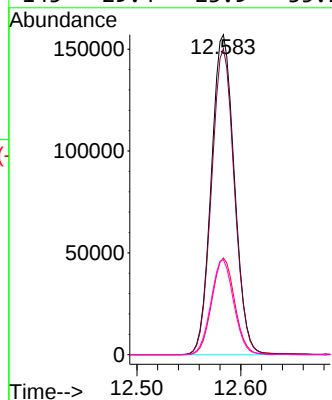
Ion Ratio Lower Upper

180 100

182 95.0 76.2 114.4

184 29.9 24.2 36.4

145 29.4 23.9 35.9



#70

1,2,4-trichlorobenzene

Concen: 48.554 ug/L

RT: 13.197 min Scan# 3781

Delta R.T. -0.000 min

Lab File: VV033088.D

Acq: 04 Dec 2023 09:23

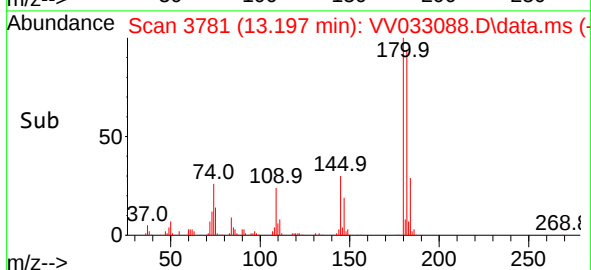
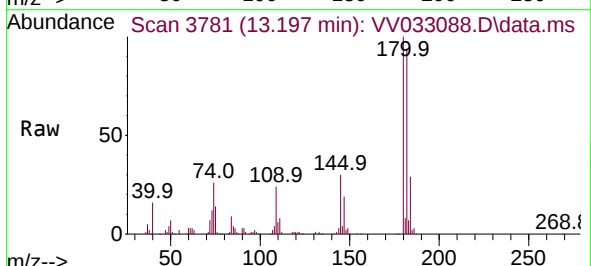
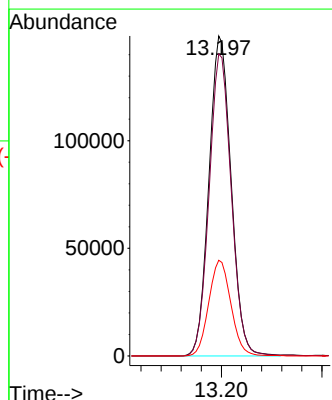
Tgt Ion:180 Resp: 227403

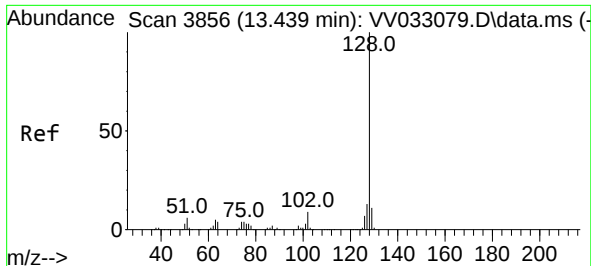
Ion Ratio Lower Upper

180 100

182 94.4 76.3 114.5

145 29.8 23.4 35.0

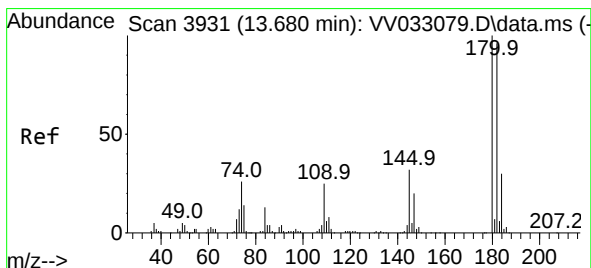
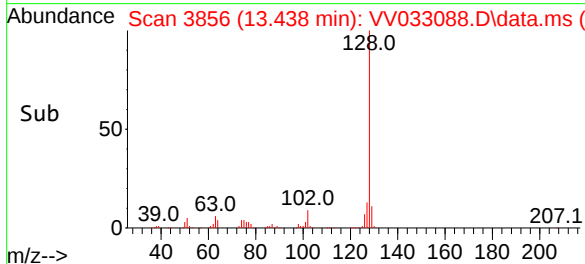
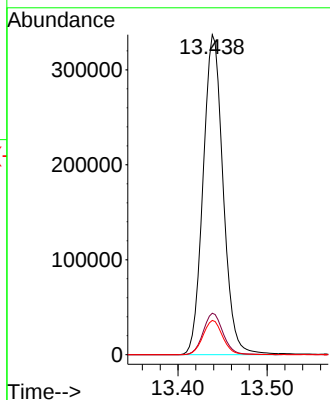
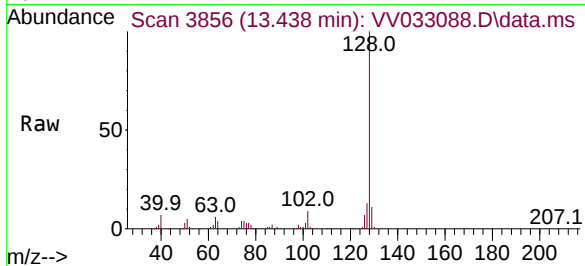




#71  
Naphthalene  
Concen: 46.034 ug/L  
RT: 13.438 min Scan# 3856  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

Instrument :  
MSVOA\_V  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 525794 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 12.9  | 10.6  | 16.0   |
| 129      | 10.5  | 8.6   | 13.0   |



#72  
1,2,3-Trichlorobenzene  
Concen: 48.245 ug/L  
RT: 13.680 min Scan# 3931  
Delta R.T. -0.000 min  
Lab File: VV033088.D  
Acq: 04 Dec 2023 09:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 218033 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.1  | 75.2  | 112.8  |
| 145      | 31.9  | 24.9  | 37.3   |

