

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD091423\  
 Data File : VD077113.D  
 Acq On : 14 Sep 2023 09:33  
 Operator : JC/SY  
 Sample : VSTDCCC025  
 Misc : 5.00G/10.0ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Sep 14 23:20:25 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\SFAMDLM090123SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Sat Sep 02 01:35:39 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.775  | 114   | 276888   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.581 | 117   | 284390   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 158127   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.270  | 65    | 158875   | 23.286   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 93.160%  |
| 7) Chloroethane-d5            | 2.799  | 69    | 139240   | 24.817   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 99.280%  |
| 11) 1,1-Dichloroethene-d2     | 3.917  | 65    | 34353    | 22.166   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 88.680%  |
| 21) 2-Butanone-d5             | 6.981  | 46    | 44072    | 51.276   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 102.560% |
| 24) Chloroform-d              | 7.569  | 84    | 194292   | 25.644   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 102.560% |
| 26) 1,2-Dichloroethane-d4     | 8.228  | 65    | 94473    | 26.308   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 105.240% |
| 32) Benzene-d6                | 8.199  | 84    | 381557   | 24.292   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 97.160%  |
| 36) 1,2-Dichloropropane-d6    | 9.210  | 67    | 110791   | 24.596   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 98.400%  |
| 41) Toluene-d8                | 10.269 | 98    | 351204   | 24.426   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 97.720%  |
| 43) trans-1,3-Dichloroprop... | 10.522 | 79    | 46830    | 22.817   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 91.280%  |
| 47) 2-Hexanone-d5             | 10.875 | 63    | 36899    | 51.289   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 102.580% |
| 56) 1,1,2,2-Tetrachloroeth... | 12.651 | 84    | 107370   | 26.738   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 106.960% |
| 66) 1,2-Dichlorobenzene-d4    | 13.816 | 152   | 120226   | 23.688   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 94.760%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.934  | 85    | 86757    | 24.433   | ug/L   | 98       |
| 3) Chloromethane              | 2.146  | 50    | 142102   | 23.583   | ug/L   | 98       |
| 5) Vinyl chloride             | 2.281  | 62    | 167491   | 23.696   | ug/L   | 97       |
| 6) Bromomethane               | 2.687  | 94    | 111020   | 22.485   | ug/L   | 90       |
| 8) Chloroethane               | 2.834  | 64    | 110974   | 23.924   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 3.175  | 101   | 155635   | 23.286   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 3.964  | 101   | 101906   | 24.927   | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 3.940  | 96    | 84148    | 22.632   | ug/L   | 88       |
| 13) Acetone                   | 4.016  | 43    | 61771    | 50.098   | ug/L   | 97       |
| 14) Carbon disulfide          | 4.269  | 76    | 267927   | 22.260   | ug/L   | 99       |
| 15) Methyl Acetate            | 4.558  | 43    | 40407    | 24.501   | ug/L # | 77       |
| 16) Methylene chloride        | 4.793  | 84    | 113261   | 20.098   | ug/L   | 96       |
| 17) trans-1,2-Dichloroethene  | 5.311  | 96    | 92181    | 22.770   | ug/L   | 89       |
| 18) Methyl tert-butyl Ether   | 5.316  | 73    | 197431   | 22.582   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 6.111  | 63    | 162508   | 23.807   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 7.081  | 96    | 105791   | 22.825   | ug/L   | 98       |
| 22) 2-Butanone                | 7.081  | 43    | 72867    | 48.986   | ug/L   | 97       |
| 23) Bromochloromethane        | 7.428  | 128   | 53712    | 24.283   | ug/L   | 96       |
| 25) Chloroform                | 7.593  | 83    | 184378   | 24.191   | ug/L   | 99       |

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 ALS Vial : 2 Sample Multiplier: 1

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 MSVOA\_D  
 ClientSampleId :

Quant Time: Sep 14 23:20:25 2023  
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 Quant Title : SFAM01.0  
 QLast Update : Sat Sep 02 01:35:39 2023  
 Response via : Initial Calibration

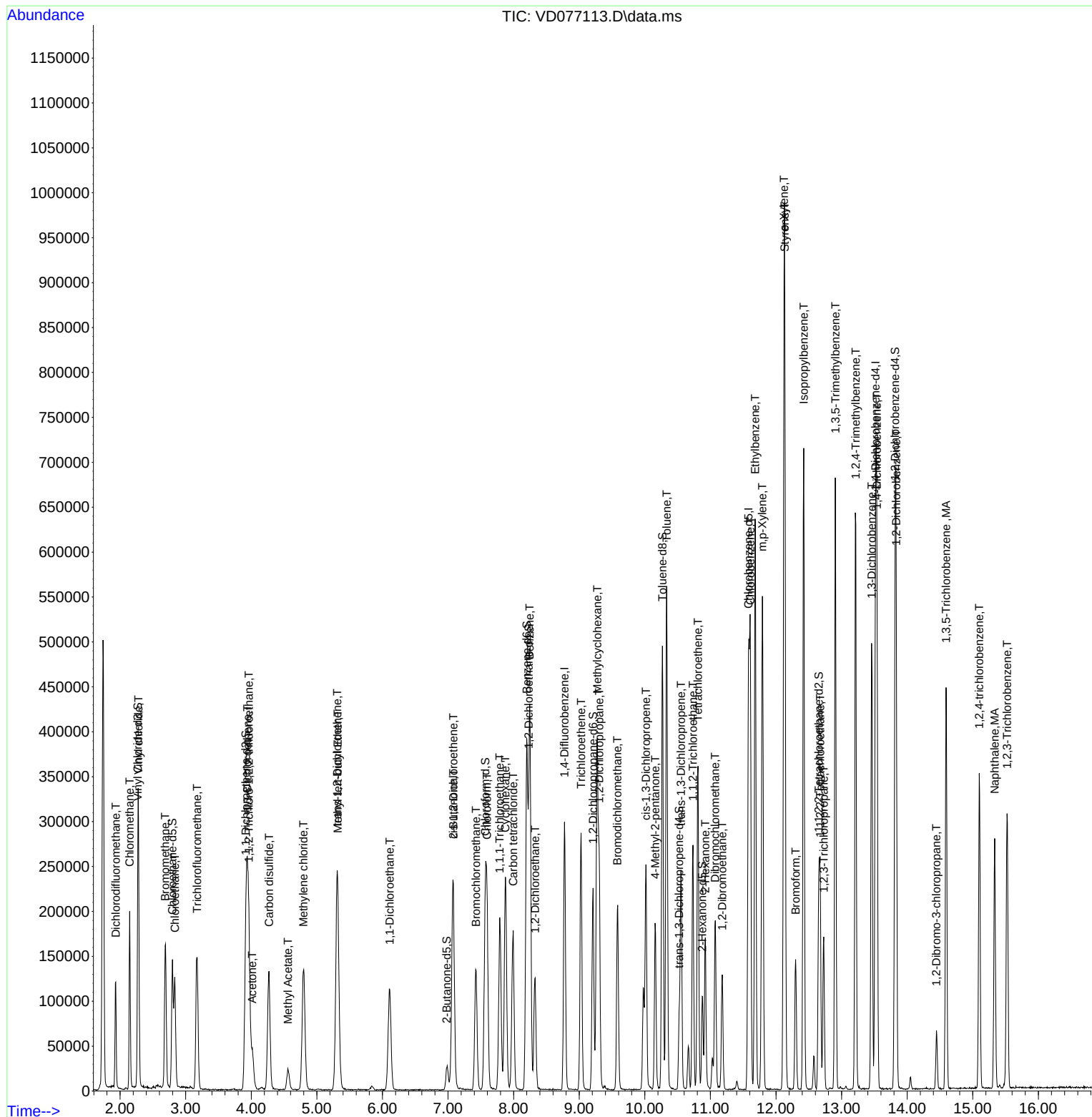
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 8.328  | 62   | 111078   | 24.333 | ug/L  | 99       |
| 29) Cyclohexane               | 7.875  | 56   | 120772   | 22.583 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 7.787  | 97   | 159493   | 23.991 | ug/L  | 98       |
| 31) Carbon tetrachloride      | 7.993  | 117  | 133983   | 23.825 | ug/L  | 98       |
| 33) Benzene                   | 8.246  | 78   | 400448   | 23.441 | ug/L  | 100      |
| 34) Trichloroethene           | 9.028  | 95   | 100837   | 22.260 | ug/L  | 98       |
| 35) Methylcyclohexane         | 9.275  | 83   | 160549   | 22.982 | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 9.304  | 63   | 103052   | 23.916 | ug/L  | 99       |
| 38) Bromodichloromethane      | 9.581  | 83   | 141097   | 23.735 | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 10.016 | 75   | 157862   | 23.043 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 10.157 | 43   | 116418   | 49.159 | ug/L  | 99       |
| 42) Toluene                   | 10.334 | 91   | 437339   | 23.634 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 10.551 | 75   | 137186   | 23.423 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 10.734 | 97   | 87420    | 23.975 | ug/L  | 94       |
| 46) Tetrachloroethene         | 10.810 | 164  | 85790    | 23.167 | ug/L  | 97       |
| 48) 2-Hexanone                | 10.922 | 43   | 100293   | 54.917 | ug/L  | 98       |
| 49) Dibromochloromethane      | 11.069 | 129  | 103040   | 24.195 | ug/L  | 93       |
| 50) 1,2-Dibromoethane         | 11.181 | 107  | 86457    | 24.001 | ug/L  | 95       |
| 51) Chlorobenzene             | 11.610 | 112  | 283575   | 22.919 | ug/L  | 98       |
| 52) Ethylbenzene              | 11.681 | 91   | 464299   | 23.185 | ug/L  | 99       |
| 53) m,p-Xylene                | 11.793 | 106  | 184090   | 23.807 | ug/L  | 96       |
| 54) o-Xylene                  | 12.122 | 106  | 173608   | 23.259 | ug/L  | 98       |
| 55) Styrene                   | 12.134 | 104  | 321100   | 24.073 | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 107350   | 25.031 | ug/L  | 99       |
| 59) Bromoform                 | 12.298 | 173  | 65909    | 23.110 | ug/L  | 99       |
| 60) Isopropylbenzene          | 12.422 | 105  | 467314   | 22.930 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 12.728 | 75   | 69289    | 22.957 | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 354112   | 22.465 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 353530   | 22.892 | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 13.457 | 146  | 220999   | 22.761 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 13.540 | 146  | 232830   | 22.953 | ug/L  | 96       |
| 67) 1,2-Dichlorobenzene       | 13.834 | 146  | 205177   | 22.975 | ug/L  | 95       |
| 68) 1,2-Dibromo-3-chloropr... | 14.445 | 75   | 14951    | 23.685 | ug/L  | 95       |
| 69) 1,3,5-Trichlorobenzene    | 14.592 | 180  | 145557   | 22.748 | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 15.098 | 180  | 117007   | 21.365 | ug/L  | 98       |
| 71) Naphthalene               | 15.334 | 128  | 241522   | 22.061 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 112748   | 22.415 | ug/L  | 99       |

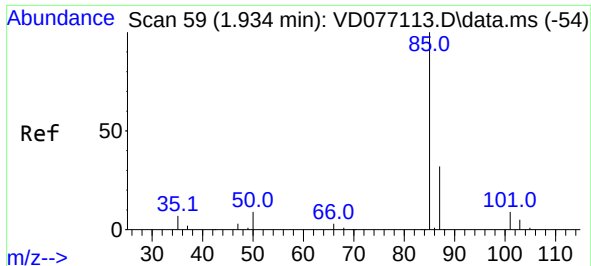
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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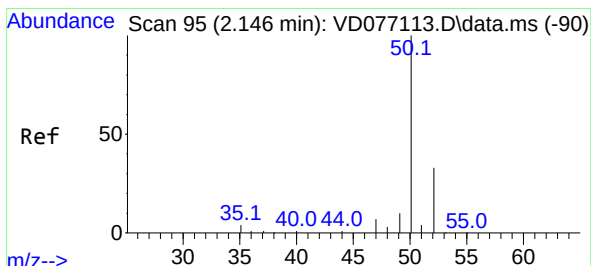
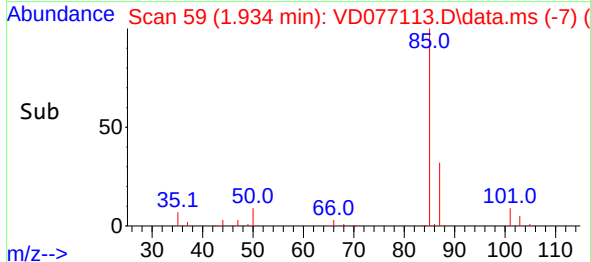
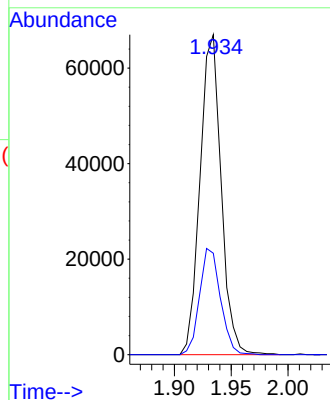
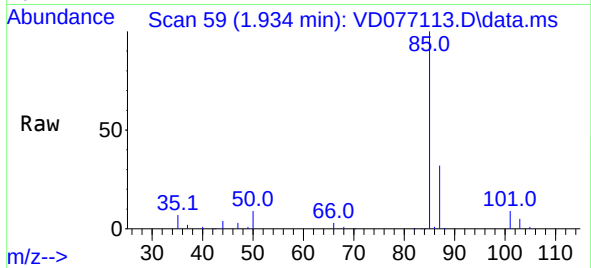




#2  
 Dichlorodifluoromethane  
 Concen: 24.433 ug/L  
 RT: 1.934 min Scan# 59  
 Delta R.T. 0.006 min  
 Lab File: VD077113.D  
 Acq: 14 Sep 2023 09:33

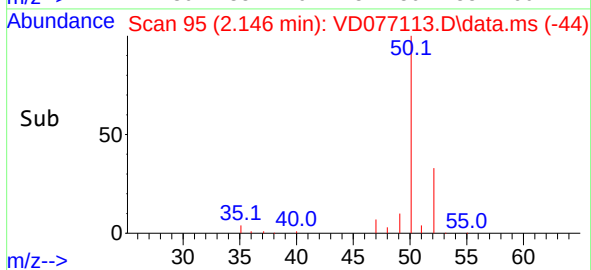
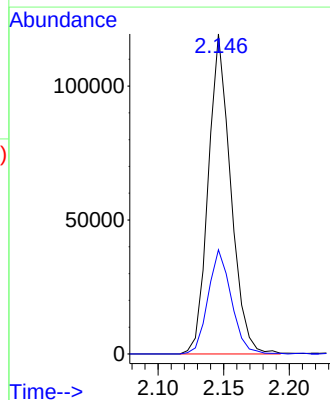
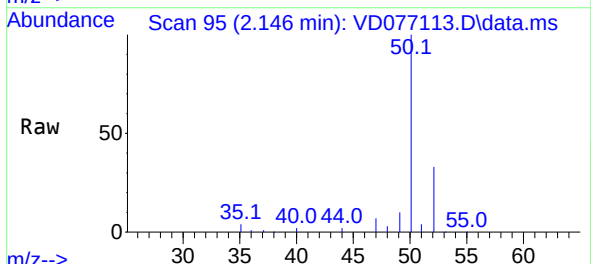
Instrument :  
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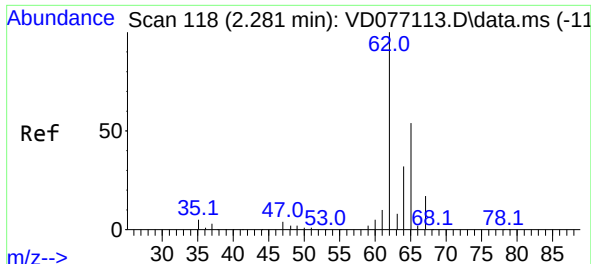
Tgt Ion: 85 Resp: 86757  
 Ion Ratio Lower Upper  
 85 100  
 87 32.9 27.0 40.6



#3  
 Chloromethane  
 Concen: 23.583 ug/L  
 RT: 2.146 min Scan# 95  
 Delta R.T. 0.000 min  
 Lab File: VD077113.D  
 Acq: 14 Sep 2023 09:33

Tgt Ion: 50 Resp: 142102  
 Ion Ratio Lower Upper  
 50 100  
 52 32.6 23.5 43.7

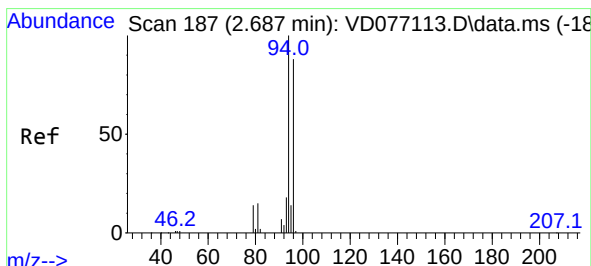
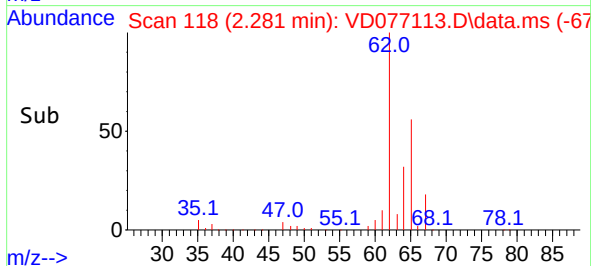
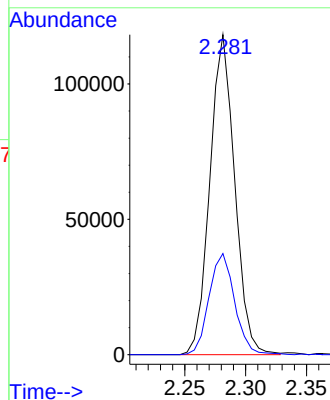
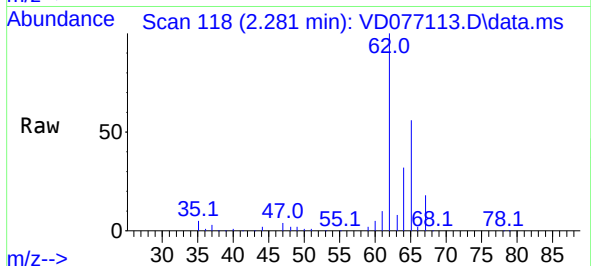




#5  
 Vinyl chloride  
 Concen: 23.696 ug/L  
 RT: 2.281 min Scan# 118  
 Delta R.T. 0.000 min  
 Lab File: VD077113.D  
 Acq: 14 Sep 2023 09:33

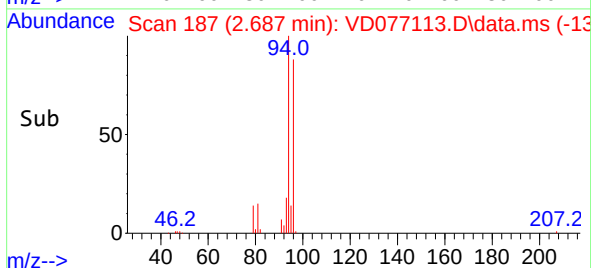
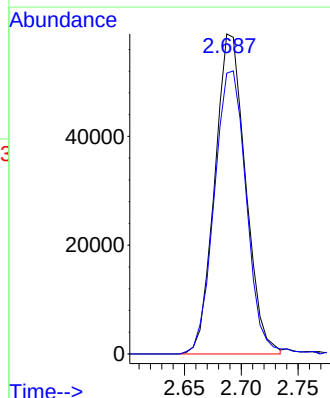
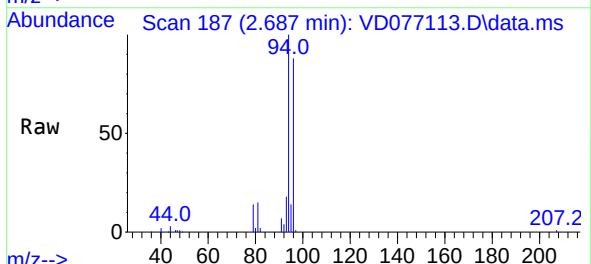
Instrument :  
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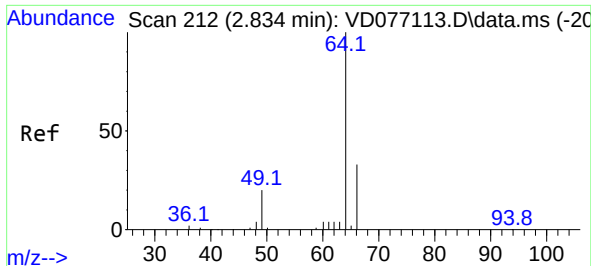
Tgt Ion: 62 Resp: 167491  
 Ion Ratio Lower Upper  
 62 100  
 64 31.6 23.2 43.2



#6  
 Bromomethane  
 Concen: 22.485 ug/L  
 RT: 2.687 min Scan# 187  
 Delta R.T. -0.006 min  
 Lab File: VD077113.D  
 Acq: 14 Sep 2023 09:33

Tgt Ion: 94 Resp: 111020  
 Ion Ratio Lower Upper  
 94 100  
 96 87.7 68.2 126.6

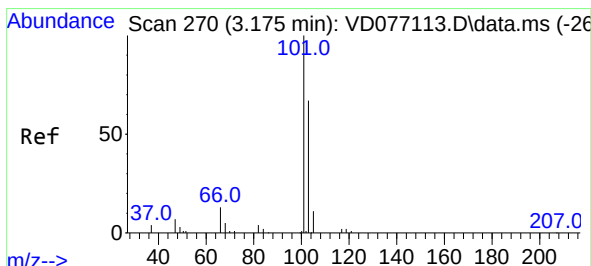
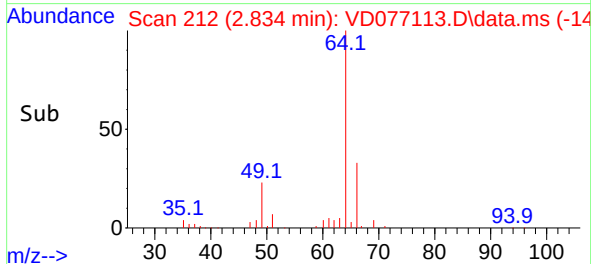
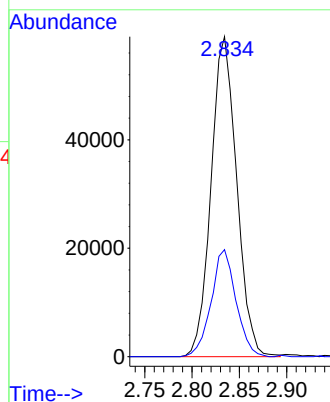
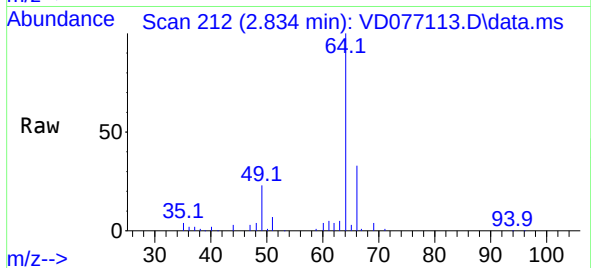




#8  
Chloroethane  
Concen: 23.924 ug/L  
RT: 2.834 min Scan# 212  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

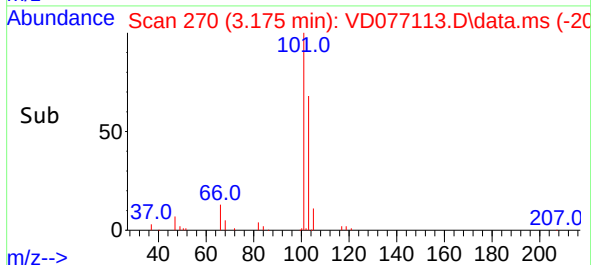
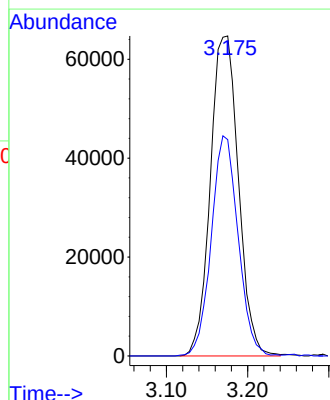
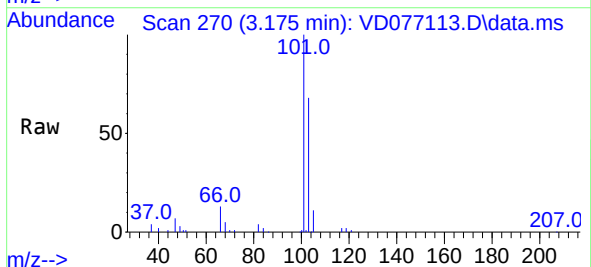
Instrument :  
MSVOA\_D  
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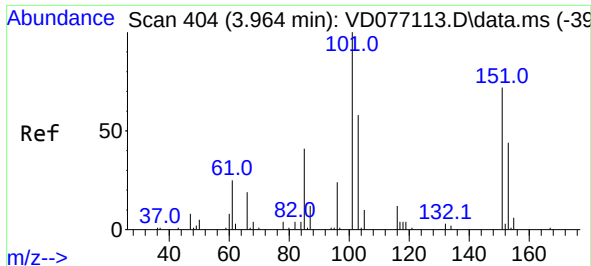
Tgt Ion: 64 Resp: 110974  
Ion Ratio Lower Upper  
64 100  
66 33.5 23.0 42.6



#9  
Trichlorofluoromethane  
Concen: 23.286 ug/L  
RT: 3.175 min Scan# 270  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion:101 Resp: 155635  
Ion Ratio Lower Upper  
101 100  
103 65.7 52.0 78.0

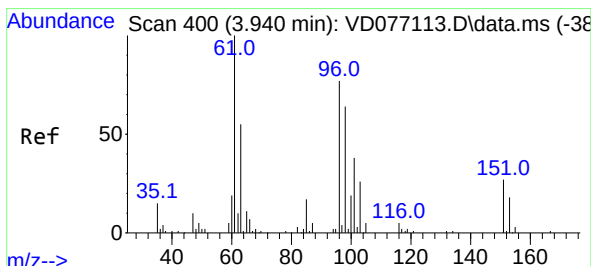
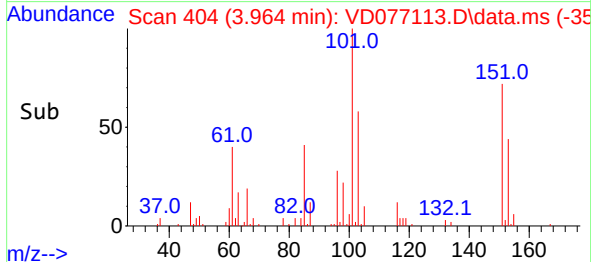
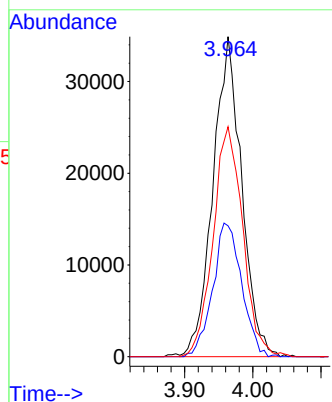
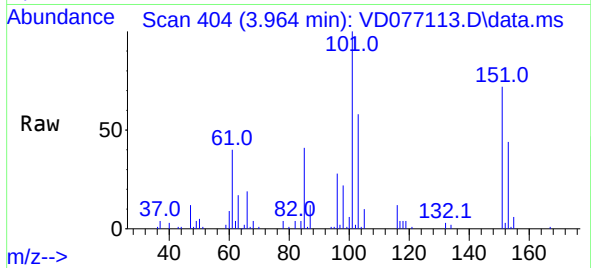




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 24.927 ug/L  
RT: 3.964 min Scan# 404  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

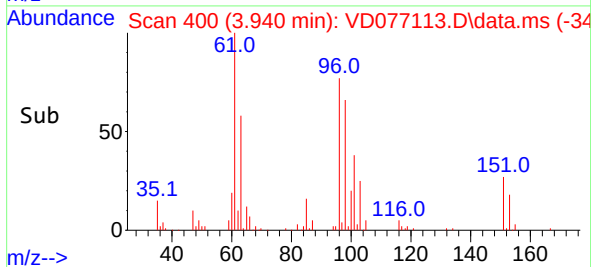
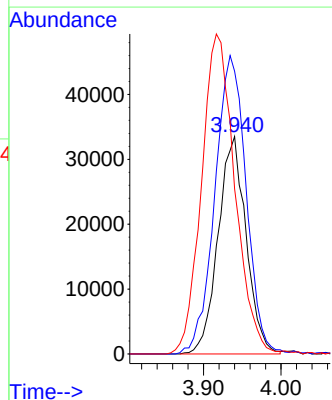
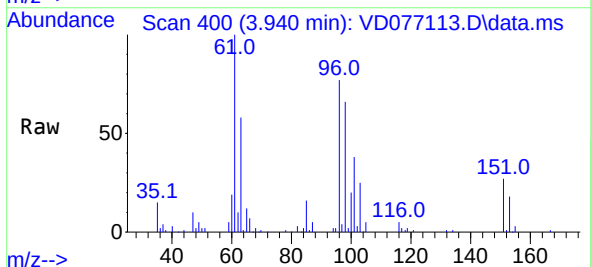
Instrument :  
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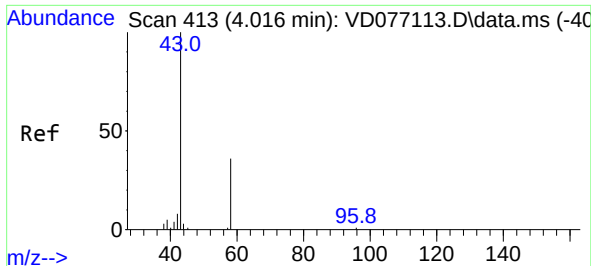
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Ion Ratio Lower Upper  
101 100  
85 42.1 33.4 50.2  
151 74.1 59.6 89.4



#12  
1,1-Dichloroethene  
Concen: 22.632 ug/L  
RT: 3.940 min Scan# 400  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion: 96 Resp: 84148  
Ion Ratio Lower Upper  
96 100  
61 130.0 95.5 177.3  
63 76.0 68.6 127.4





#13

Acetone

Concen: 50.098 ug/L

RT: 4.016 min Scan# 413

Delta R.T. 0.000 min

Lab File: VD077113.D

Acq: 14 Sep 2023 09:33

Instrument :

MSVOA\_D

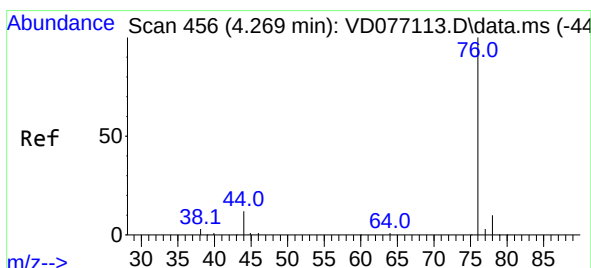
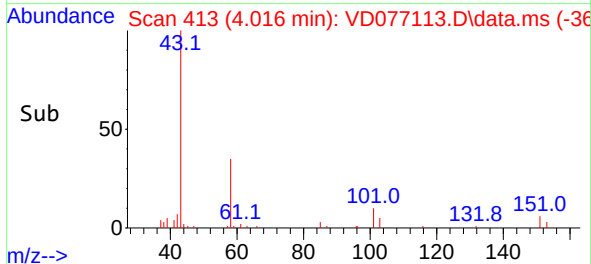
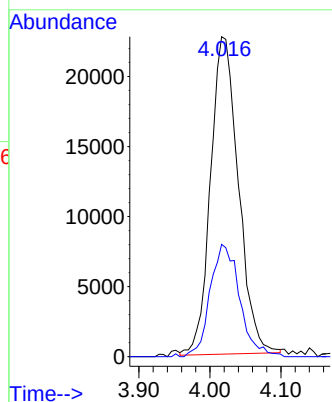
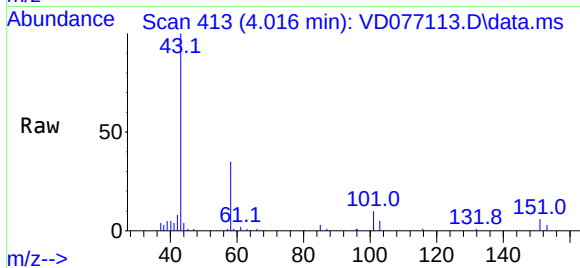
ClientSampleId :

Tgt Ion: 43 Resp: 61771

Ion Ratio Lower Upper

43 100

58 37.4 0.0 71.8



#14

Carbon disulfide

Concen: 22.260 ug/L

RT: 4.269 min Scan# 456

Delta R.T. 0.000 min

Lab File: VD077113.D

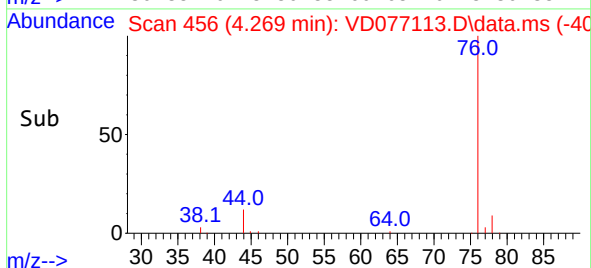
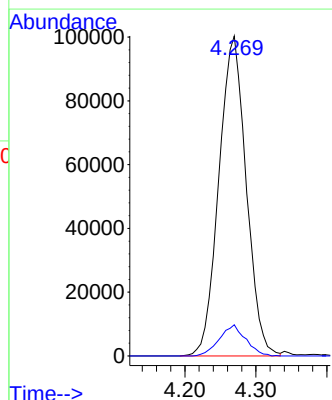
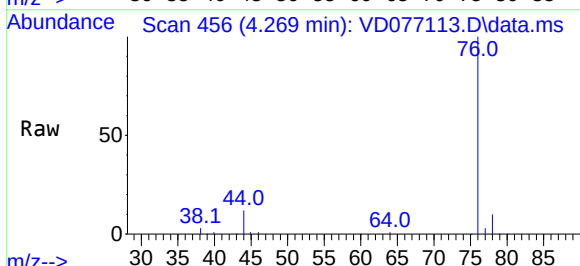
Acq: 14 Sep 2023 09:33

Tgt Ion: 76 Resp: 267927

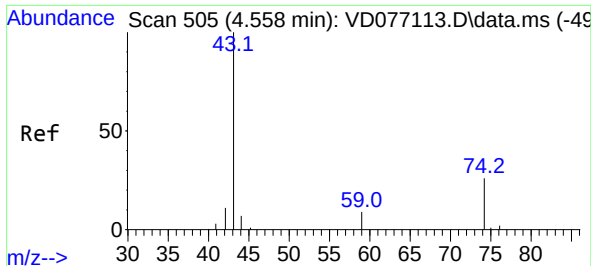
Ion Ratio Lower Upper

76 100

78 9.7 7.5 11.3







#15

Methyl Acetate

Concen: 24.501 ug/L

RT: 4.558 min Scan# 505

Delta R.T. -0.012 min

Lab File: VD077113.D

Acq: 14 Sep 2023 09:33

Instrument :

MSVOA\_D

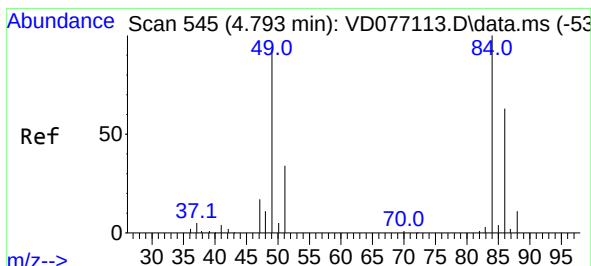
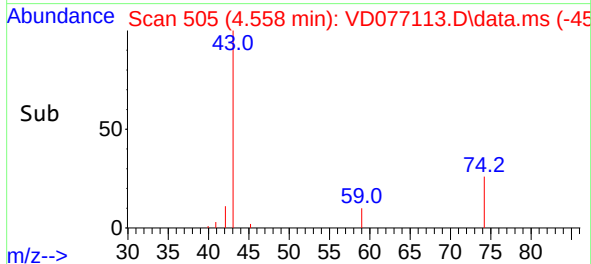
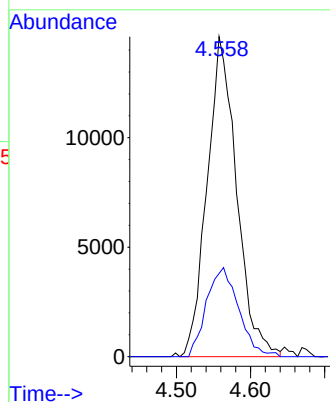
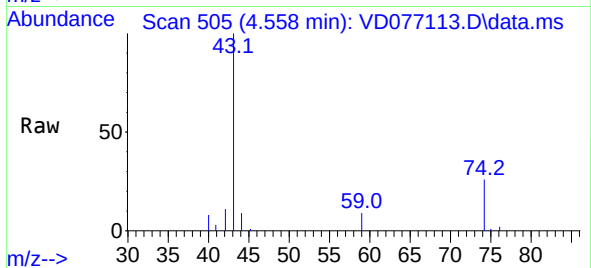
ClientSampleId :

Tgt Ion: 43 Resp: 40407

Ion Ratio Lower Upper

43 100

74 30.0 0.2 0.2#



#16

Methylene chloride

Concen: 20.098 ug/L

RT: 4.793 min Scan# 545

Delta R.T. -0.012 min

Lab File: VD077113.D

Acq: 14 Sep 2023 09:33

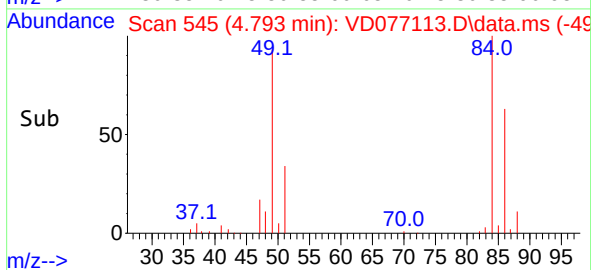
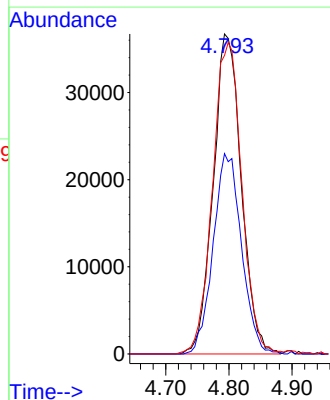
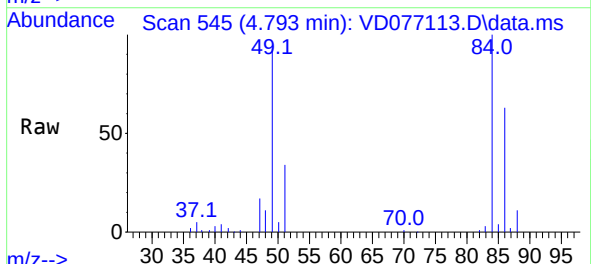
Tgt Ion: 84 Resp: 113261

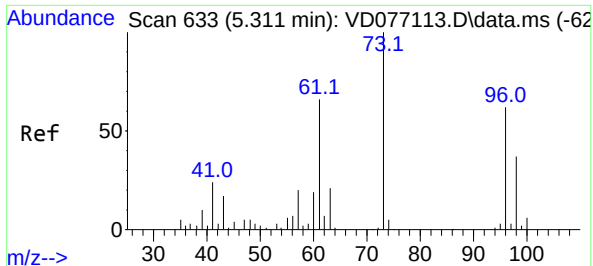
Ion Ratio Lower Upper

84 100

86 62.6 45.3 84.1

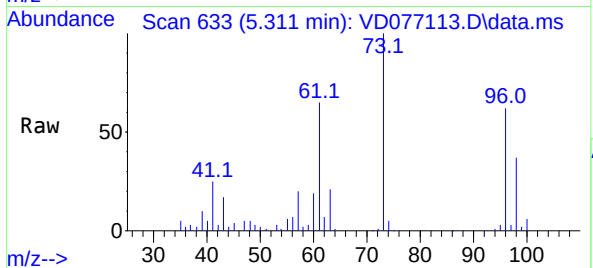
49 93.3 69.2 128.6



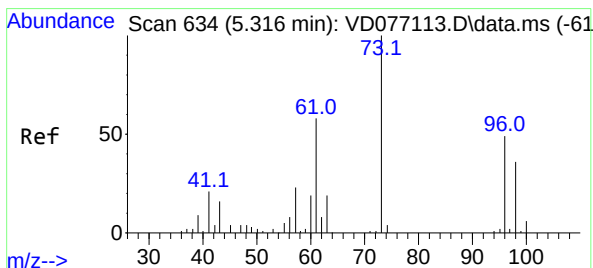
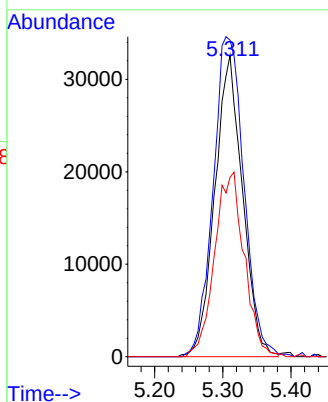
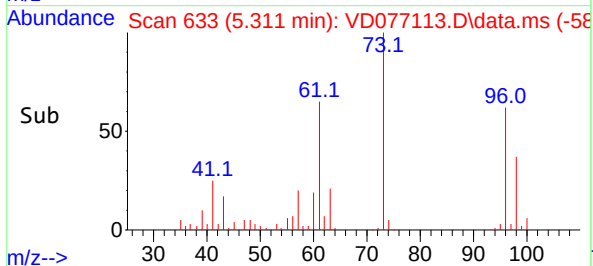


#17  
trans-1,2-Dichloroethene  
Concen: 22.770 ug/L  
RT: 5.311 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

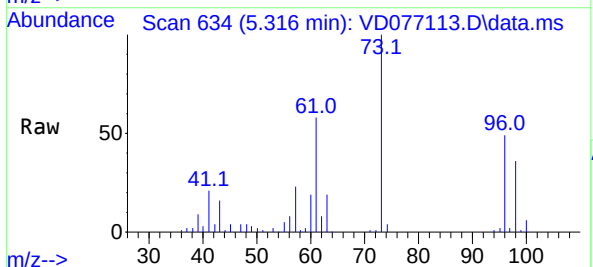
Instrument :  
MSVOA\_D  
ClientSampleId :



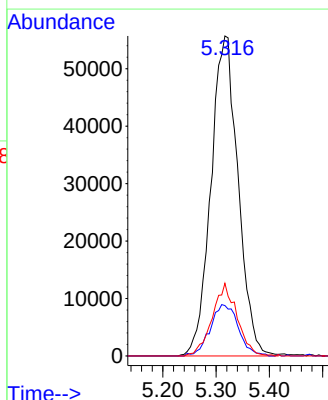
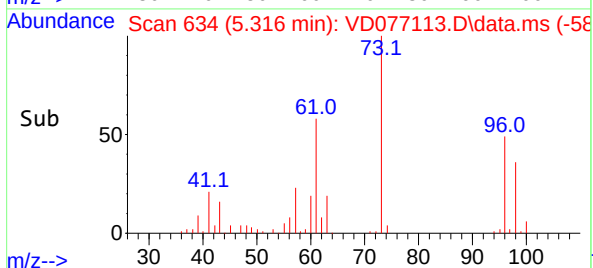
Tgt Ion: 96 Resp: 92181  
Ion Ratio Lower Upper  
96 100  
61 105.1 85.1 158.1  
98 59.6 43.7 81.1

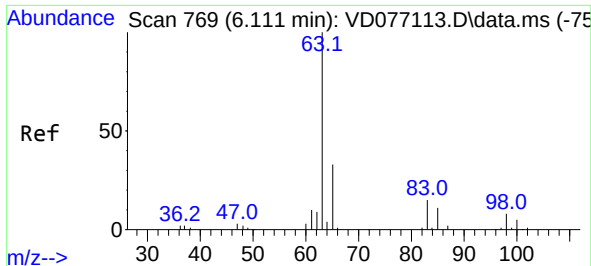


#18  
Methyl tert-butyl Ether  
Concen: 22.582 ug/L  
RT: 5.316 min Scan# 634  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33



Tgt Ion: 73 Resp: 197431  
Ion Ratio Lower Upper  
73 100  
43 16.5 12.5 18.7  
57 20.7 16.8 25.2

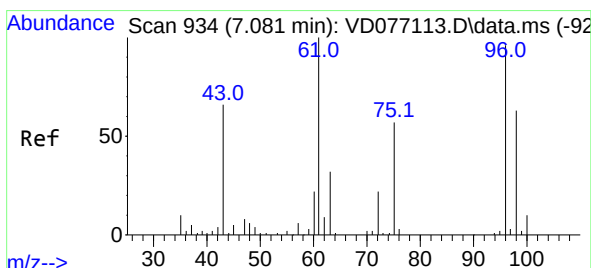
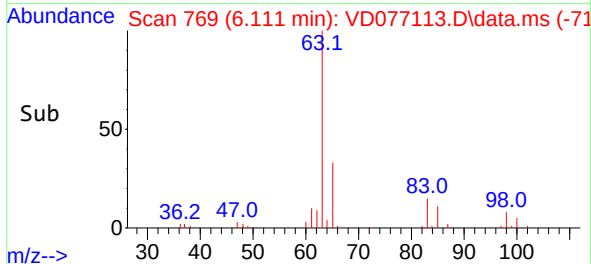
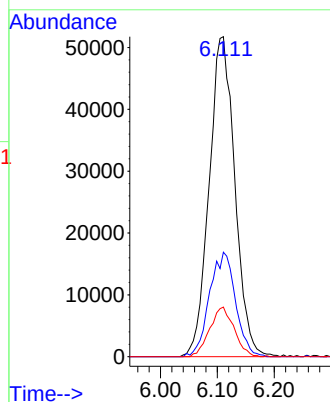
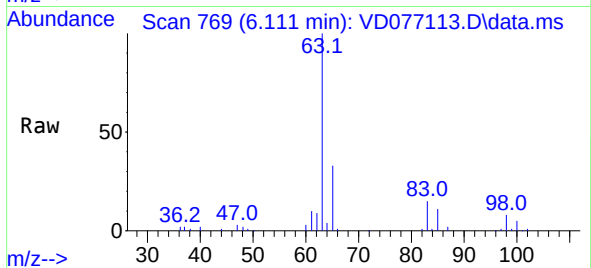




#19  
1,1-Dichloroethane  
Concen: 23.807 ug/L  
RT: 6.111 min Scan# 769  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

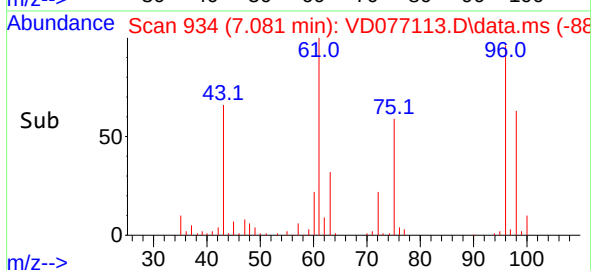
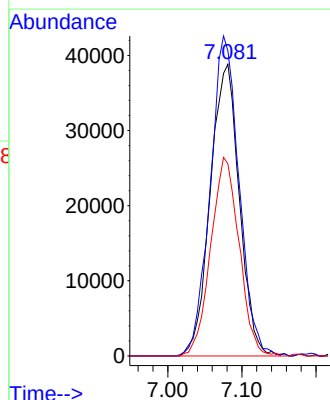
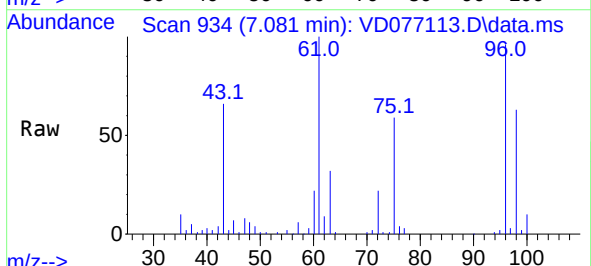
Instrument :  
MSVOA\_D  
ClientSampleId :

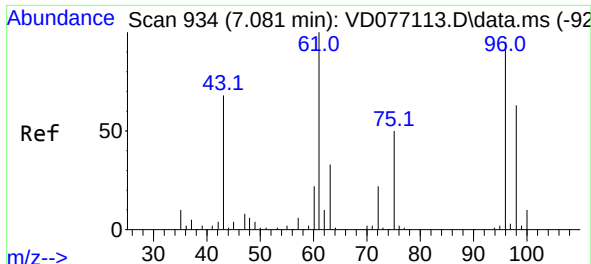
Tgt Ion: 63 Resp: 162508  
Ion Ratio Lower Upper  
63 100  
65 32.6 22.5 41.9  
83 15.5 9.9 18.5



#20  
cis-1,2-Dichloroethene  
Concen: 22.825 ug/L  
RT: 7.081 min Scan# 934  
Delta R.T. 0.006 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion: 96 Resp: 105791  
Ion Ratio Lower Upper  
96 100  
61 104.6 75.5 140.1  
98 65.9 45.8 85.0

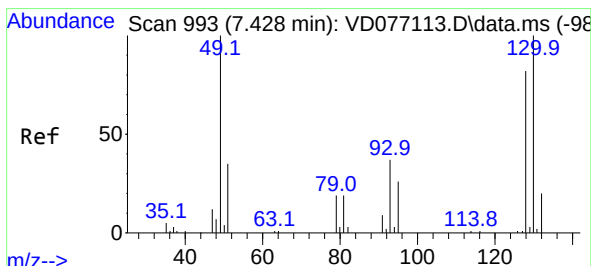
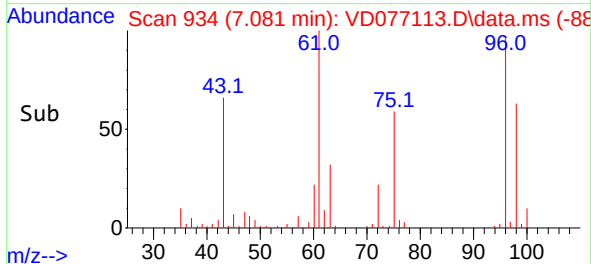
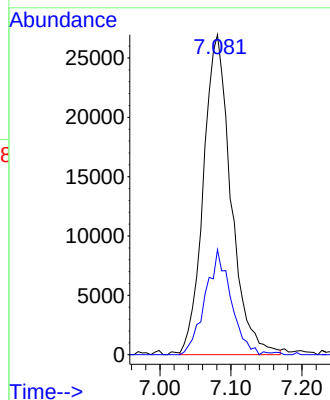
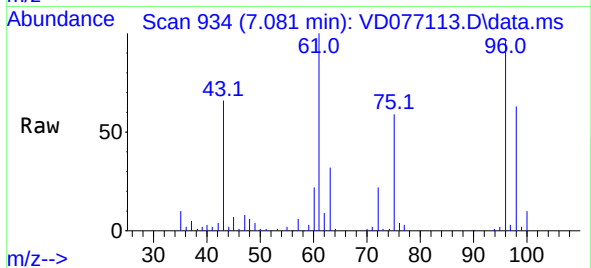




#22  
2-Butanone  
Concen: 48.986 ug/L  
RT: 7.081 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

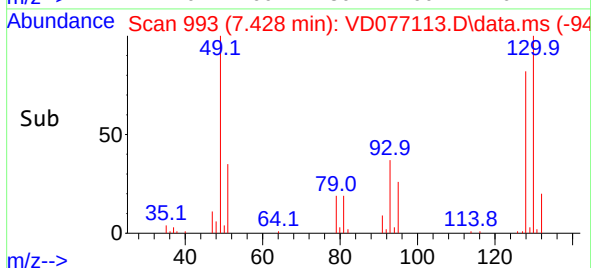
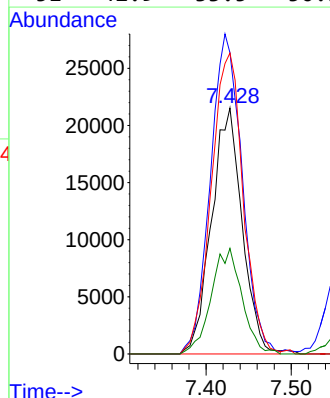
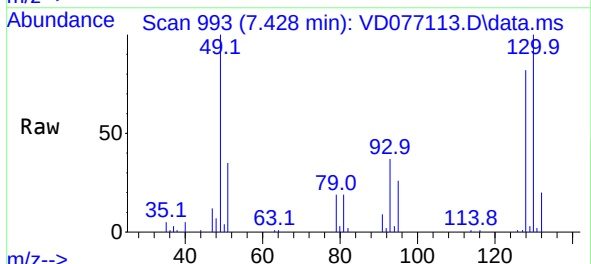
Instrument :  
MSVOA\_D  
ClientSampleId :

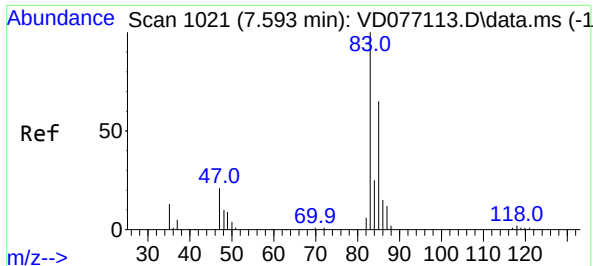
Tgt Ion: 43 Resp: 72867  
Ion Ratio Lower Upper  
43 100  
72 30.4 16.0 48.0



#23  
Bromochloromethane  
Concen: 24.283 ug/L  
RT: 7.428 min Scan# 993  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion:128 Resp: 53712  
Ion Ratio Lower Upper  
128 100  
49 122.5 86.5 160.6  
130 122.4 91.2 169.4  
51 42.9 33.5 50.3





#25

Chloroform

Concen: 24.191 ug/L

RT: 7.593 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VD077113.D

Acq: 14 Sep 2023 09:33

Instrument :

MSVOA\_D

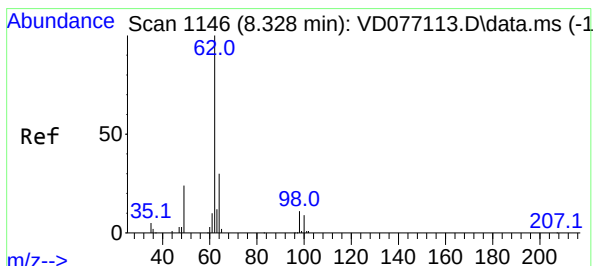
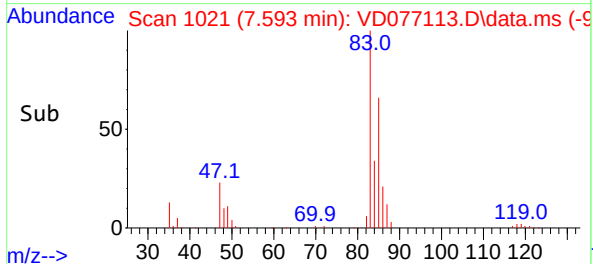
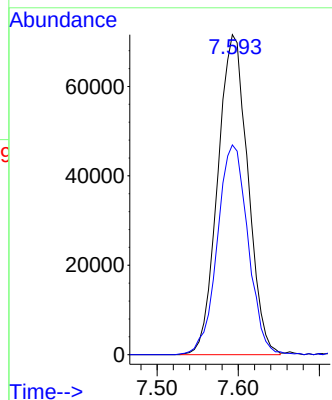
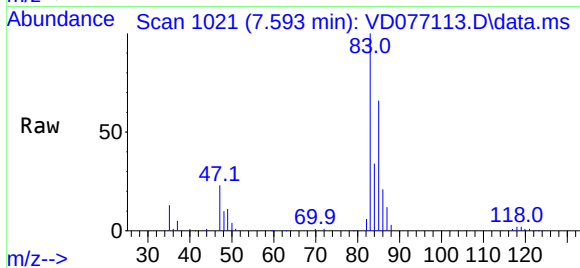
ClientSampleId :

Tgt Ion: 83 Resp: 184378

Ion Ratio Lower Upper

83 100

85 65.5 46.2 85.8



#27

1,2-Dichloroethane

Concen: 24.333 ug/L

RT: 8.328 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VD077113.D

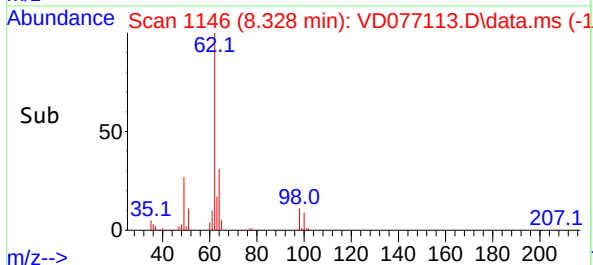
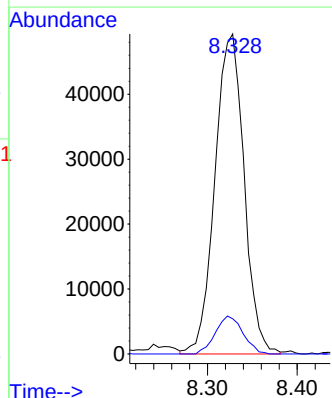
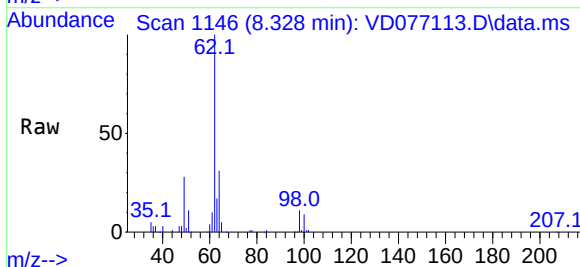
Acq: 14 Sep 2023 09:33

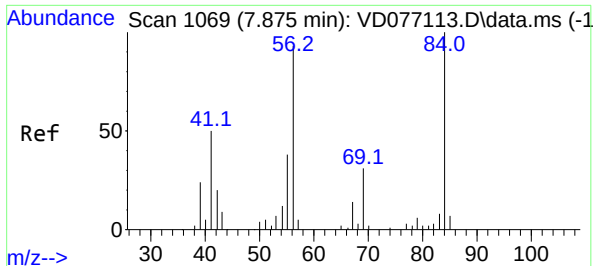
Tgt Ion: 62 Resp: 111078

Ion Ratio Lower Upper

62 100

98 11.0 9.0 13.4





#29

Cyclohexane

Concen: 22.583 ug/L

RT: 7.875 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VD077113.D

Acq: 14 Sep 2023 09:33

Instrument :

MSVOA\_D

ClientSampleId :

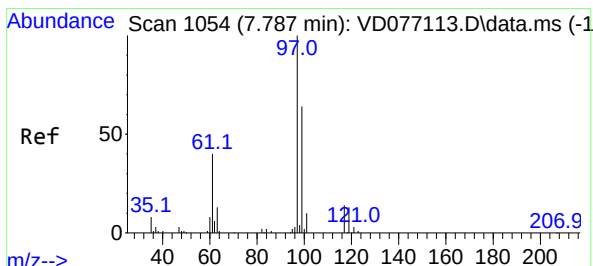
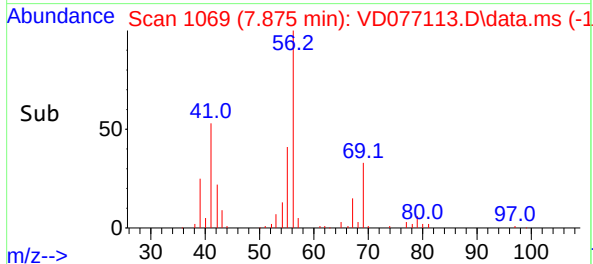
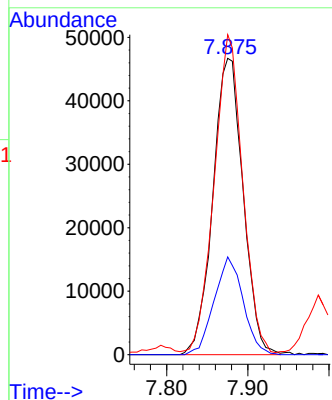
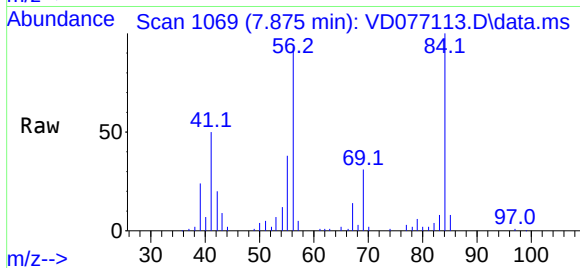
Tgt Ion: 56 Resp: 120772

Ion Ratio Lower Upper

56 100

69 31.6 25.5 38.3

84 102.7 82.6 124.0



#30

1,1,1-Trichloroethane

Concen: 23.991 ug/L

RT: 7.787 min Scan# 1054

Delta R.T. -0.006 min

Lab File: VD077113.D

Acq: 14 Sep 2023 09:33

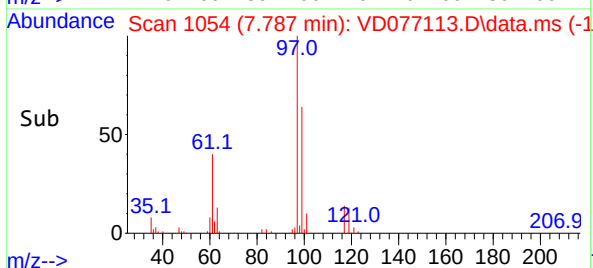
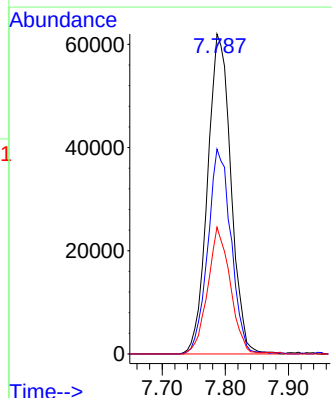
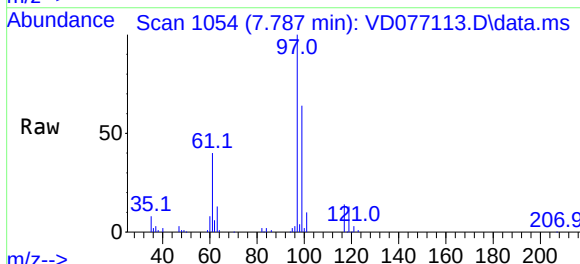
Tgt Ion: 97 Resp: 159493

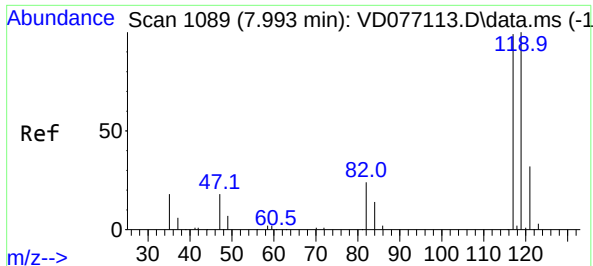
Ion Ratio Lower Upper

97 100

99 63.5 50.7 76.1

61 38.1 32.6 48.8

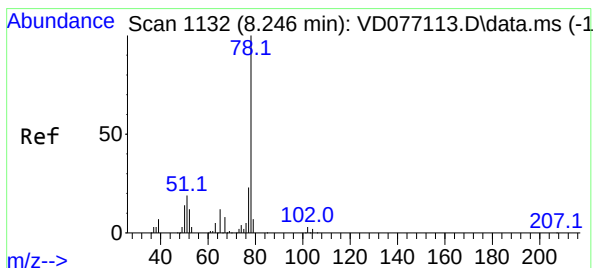
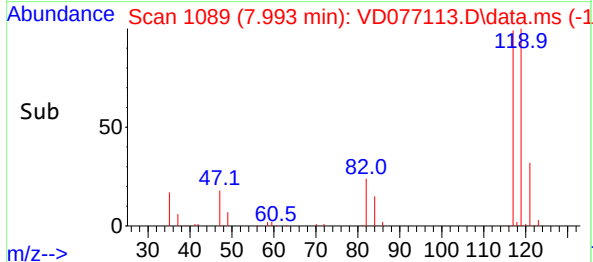
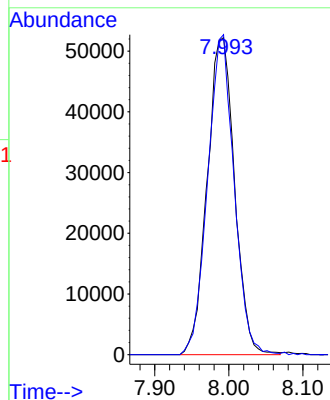
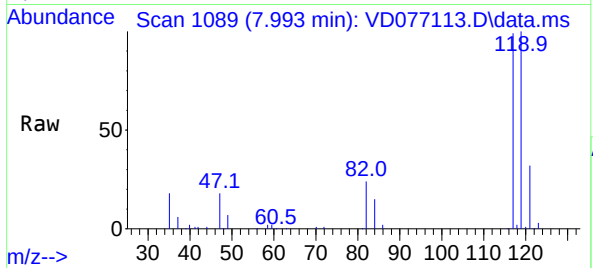




#31  
Carbon tetrachloride  
Concen: 23.825 ug/L  
RT: 7.993 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

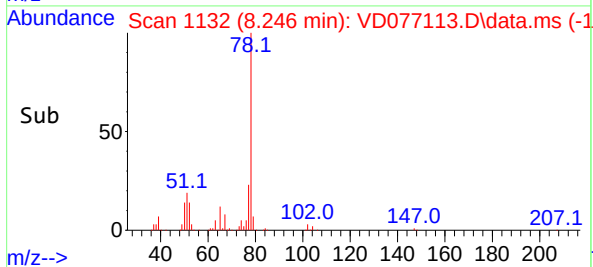
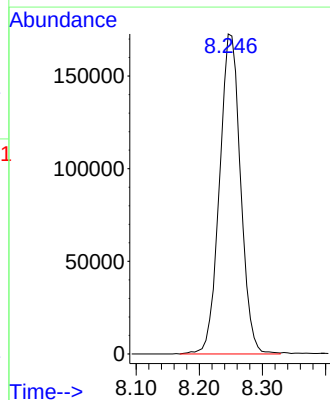
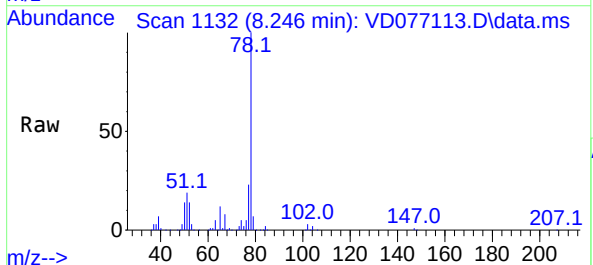
Instrument :  
MSVOA\_D  
ClientSampleId :

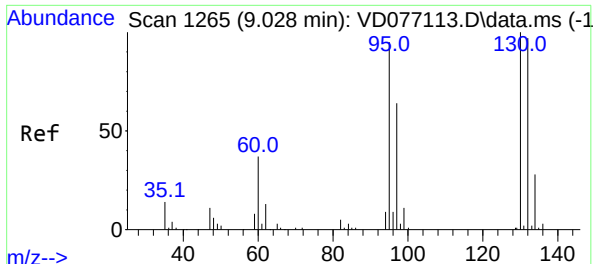
Tgt Ion:117 Resp: 133983  
Ion Ratio Lower Upper  
117 100  
119 97.2 76.2 114.4



#33  
Benzene  
Concen: 23.441 ug/L  
RT: 8.246 min Scan# 1132  
Delta R.T. -0.006 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

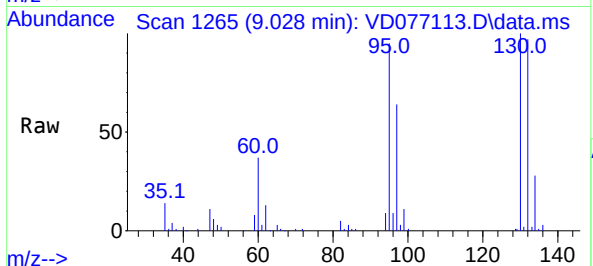
Tgt Ion: 78 Resp: 400448



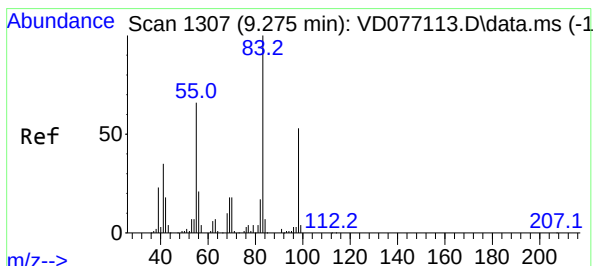
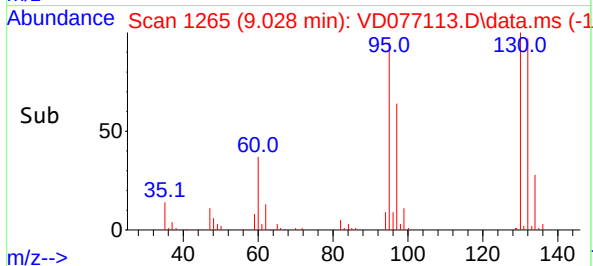
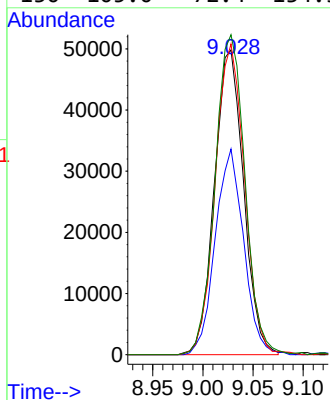


#34  
Trichloroethene  
Concen: 22.260 ug/L  
RT: 9.028 min Scan# 1265  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Instrument :  
MSVOA\_D  
ClientSampleId :

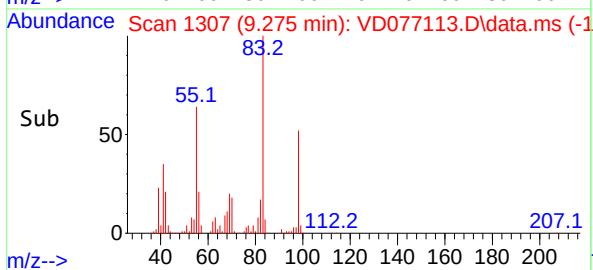
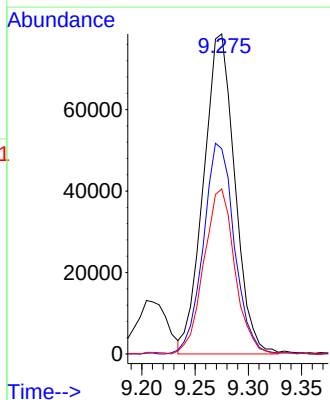
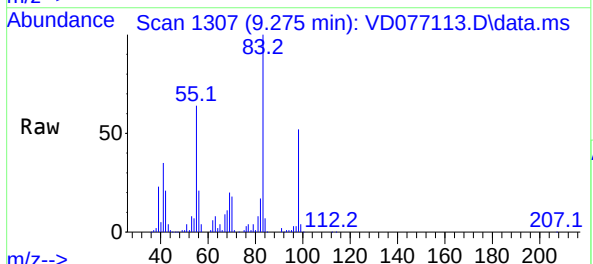


Tgt Ion: 95 Resp: 100837  
Ion Ratio Lower Upper  
95 100  
97 67.4 46.4 86.2  
132 101.9 70.1 130.1  
130 105.0 72.4 134.5

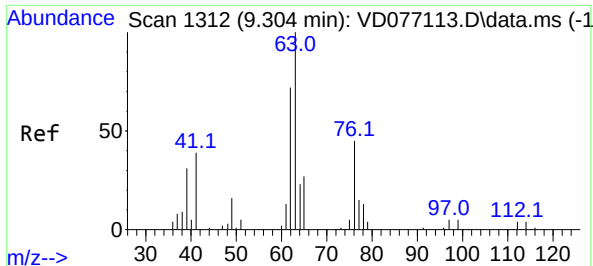


#35  
Methylcyclohexane  
Concen: 22.982 ug/L  
RT: 9.275 min Scan# 1307  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion: 83 Resp: 160549  
Ion Ratio Lower Upper  
83 100  
55 65.3 51.5 77.3  
98 50.9 40.7 61.1



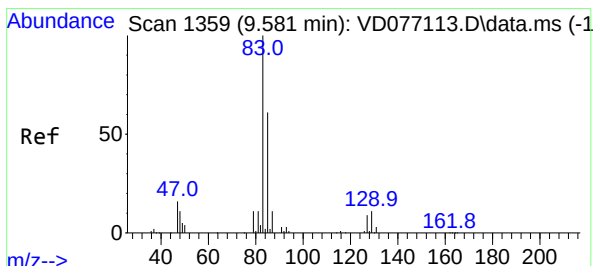
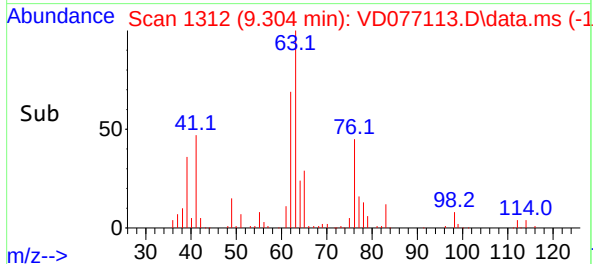
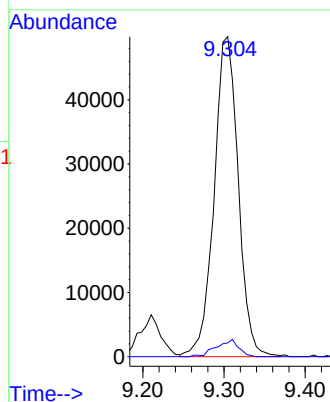
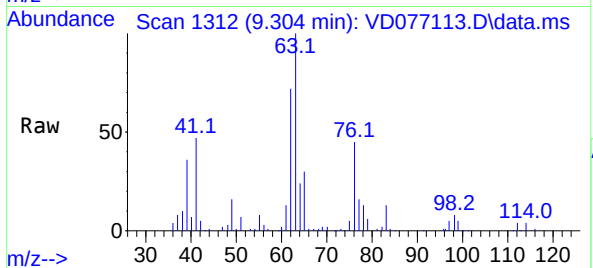




#37  
1,2-Dichloropropane  
Concen: 23.916 ug/L  
RT: 9.304 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

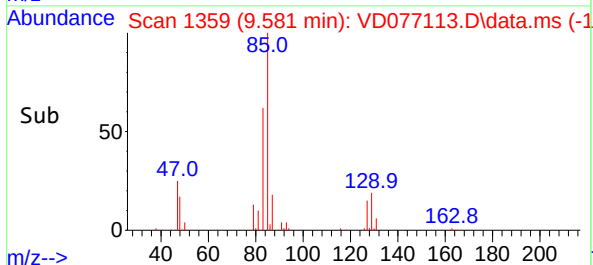
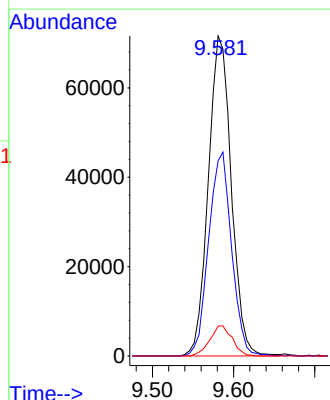
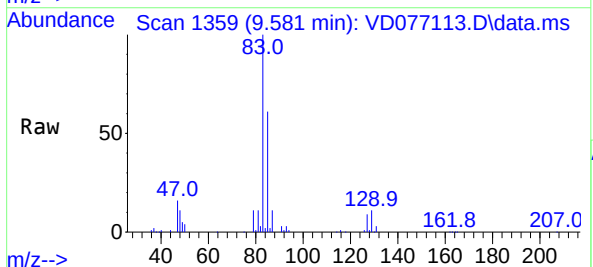
Instrument :  
MSVOA\_D  
ClientSampleId :

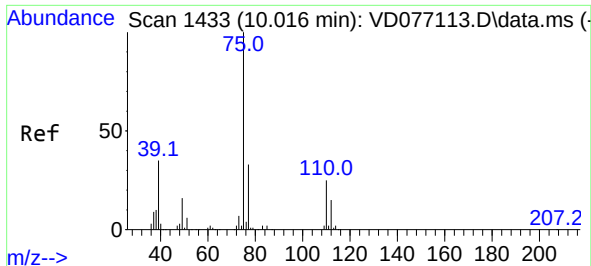
Tgt Ion: 63 Resp: 103052  
Ion Ratio Lower Upper  
63 100  
112 4.7 4.0 6.0



#38  
Bromodichloromethane  
Concen: 23.735 ug/L  
RT: 9.581 min Scan# 1359  
Delta R.T. -0.006 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion: 83 Resp: 141097  
Ion Ratio Lower Upper  
83 100  
85 61.0 44.0 81.6  
127 9.3 7.5 11.3





#39

cis-1,3-Dichloropropene

Concen: 23.043 ug/L

RT: 10.016 min Scan# 1433

Delta R.T. 0.000 min

Lab File: VD077113.D

Acq: 14 Sep 2023 09:33

Instrument :

MSVOA\_D

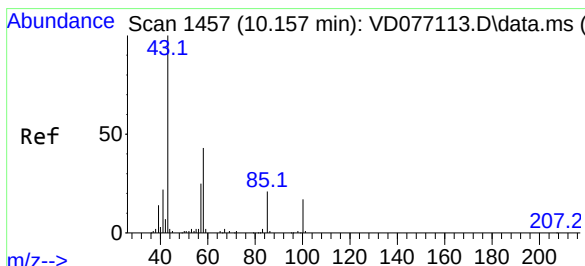
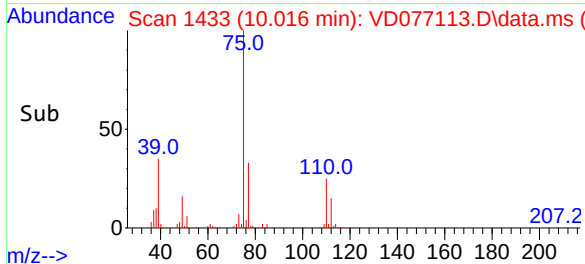
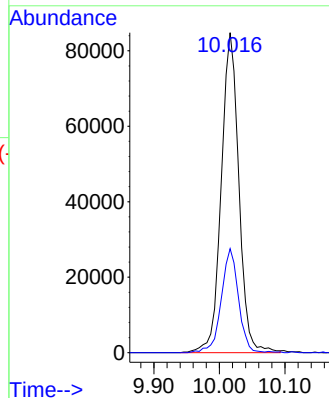
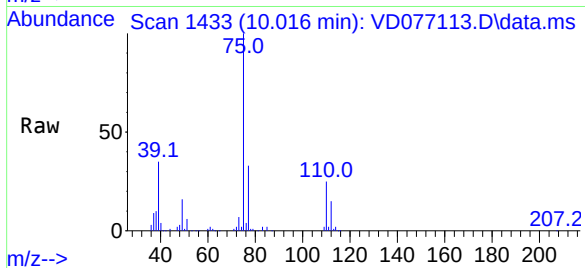
ClientSampleId :

Tgt Ion: 75 Resp: 157862

Ion Ratio Lower Upper

75 100

77 32.5 23.2 43.2



#40

4-Methyl-2-pentanone

Concen: 49.159 ug/L

RT: 10.157 min Scan# 1457

Delta R.T. 0.000 min

Lab File: VD077113.D

Acq: 14 Sep 2023 09:33

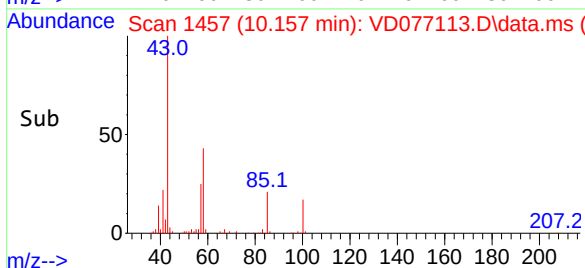
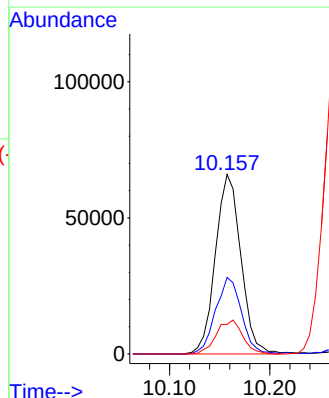
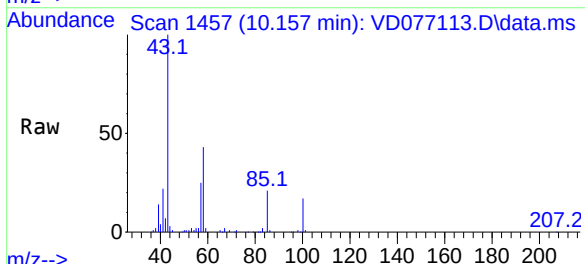
Tgt Ion: 43 Resp: 116418

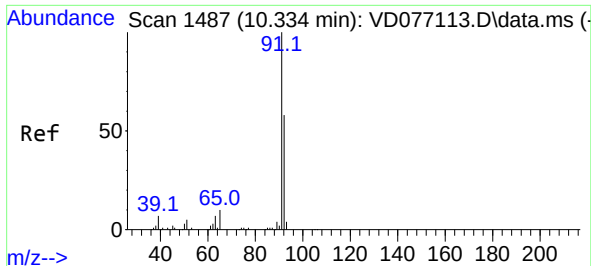
Ion Ratio Lower Upper

43 100

58 43.2 34.6 51.8

100 19.5 16.2 24.4

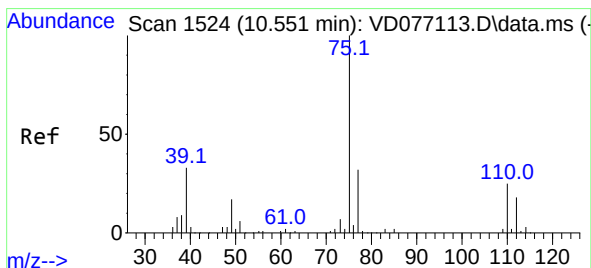
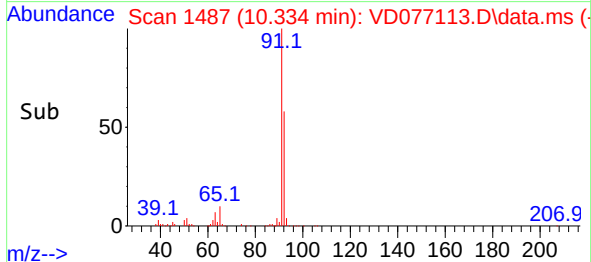
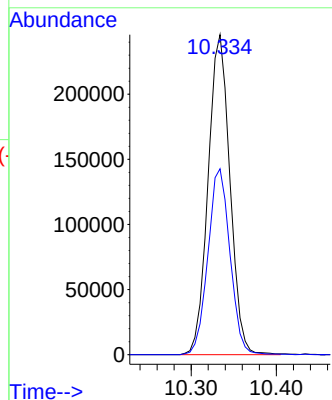
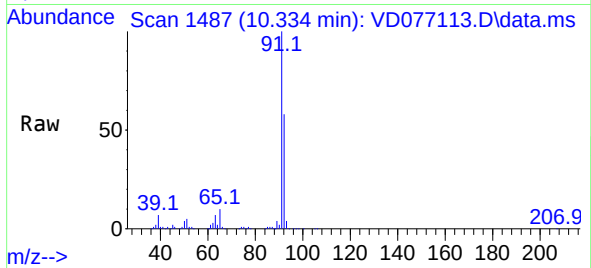




#42  
Toluene  
Concen: 23.634 ug/L  
RT: 10.334 min Scan# 1487  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

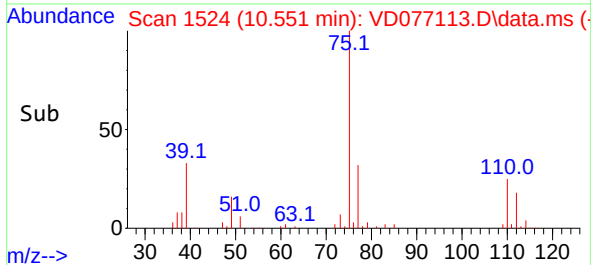
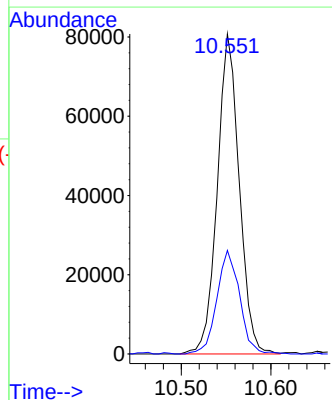
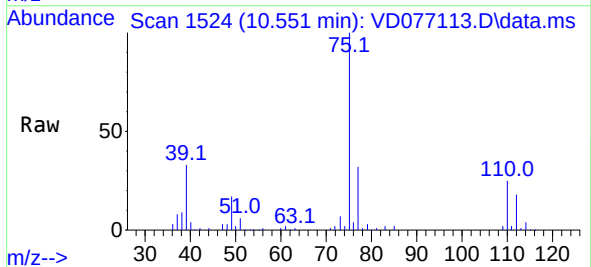
Instrument :  
MSVOA\_D  
ClientSampleId :

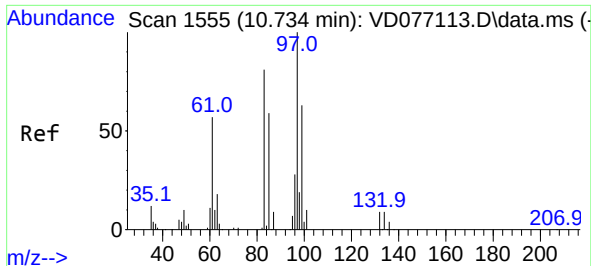
Tgt Ion: 91 Resp: 437339  
Ion Ratio Lower Upper  
91 100  
92 58.1 40.8 75.8



#44  
trans-1,3-Dichloropropene  
Concen: 23.423 ug/L  
RT: 10.551 min Scan# 1524  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

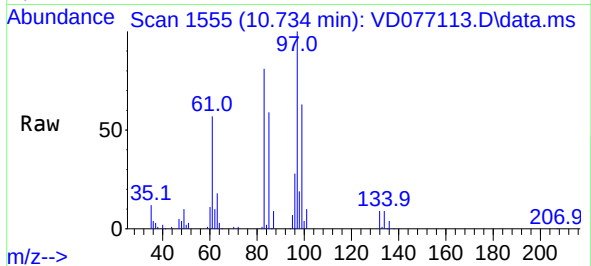
Tgt Ion: 75 Resp: 137186  
Ion Ratio Lower Upper  
75 100  
77 32.3 22.5 41.9





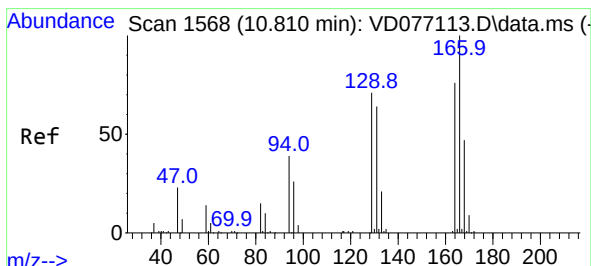
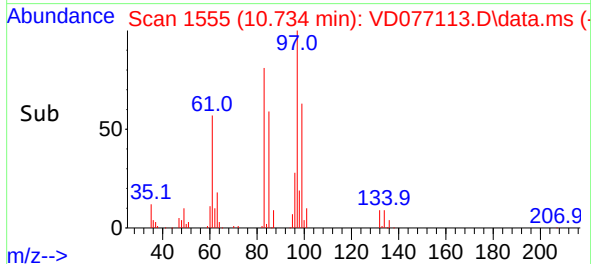
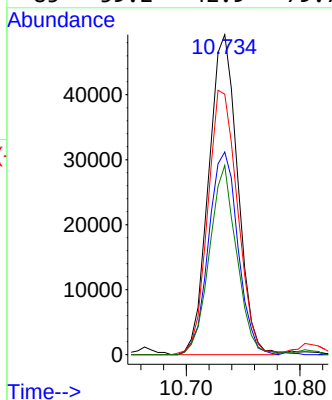
#45  
1,1,2-Trichloroethane  
Concen: 23.975 ug/L  
RT: 10.734 min Scan# 1555  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion: 97 Resp: 87420

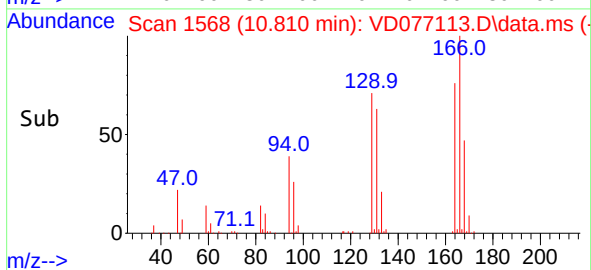
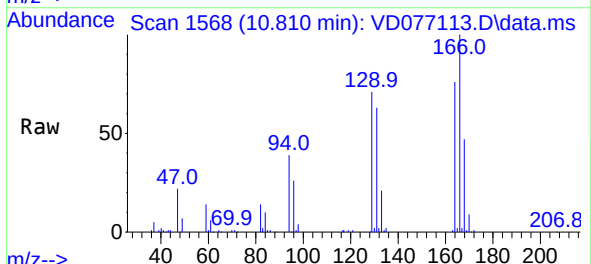
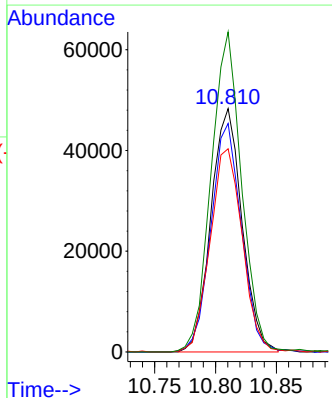
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 63.4  | 46.1  | 85.5  |
| 83  | 81.4  | 64.3  | 119.3 |
| 85  | 59.2  | 42.9  | 79.7  |

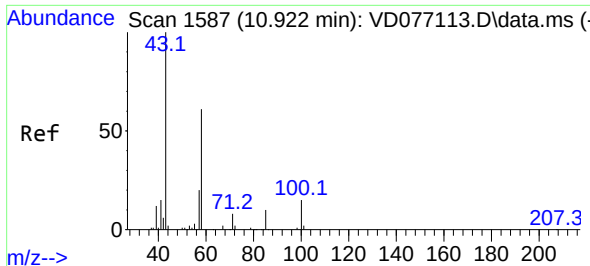


#46  
Tetrachloroethene  
Concen: 23.167 ug/L  
RT: 10.810 min Scan# 1568  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion: 164 Resp: 85790

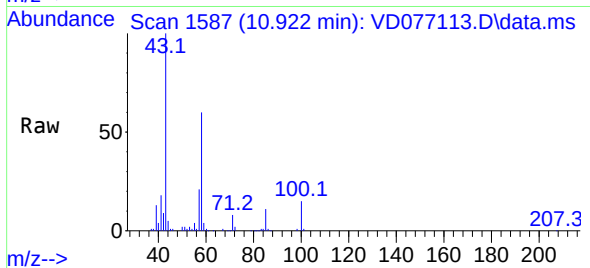
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 93.9  | 66.4  | 123.4 |
| 131 | 83.5  | 62.6  | 116.3 |
| 166 | 131.5 | 89.6  | 166.4 |



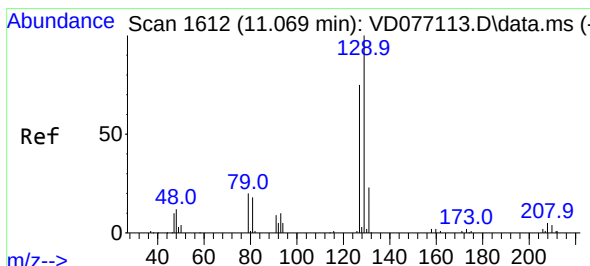
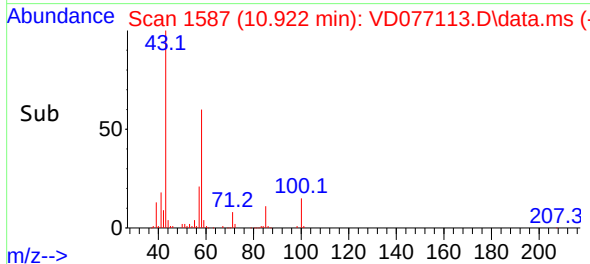
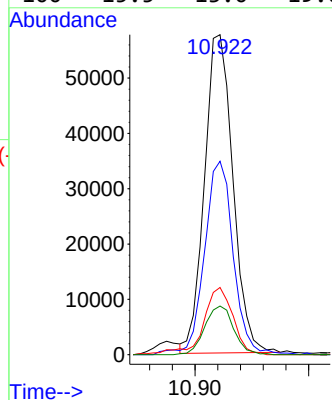


#48  
2-Hexanone  
Concen: 54.917 ug/L  
RT: 10.922 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Instrument :  
MSVOA\_D  
ClientSampleId :

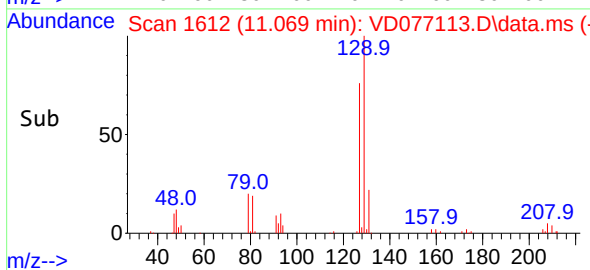
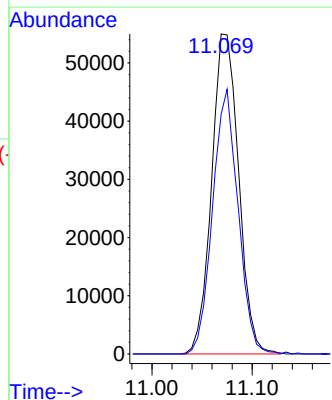
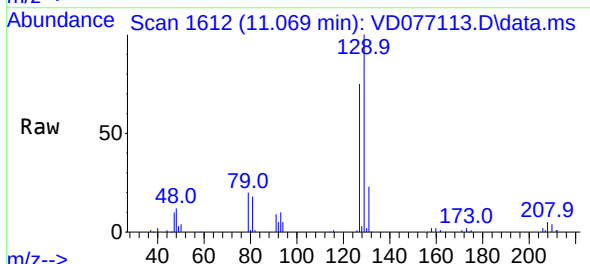


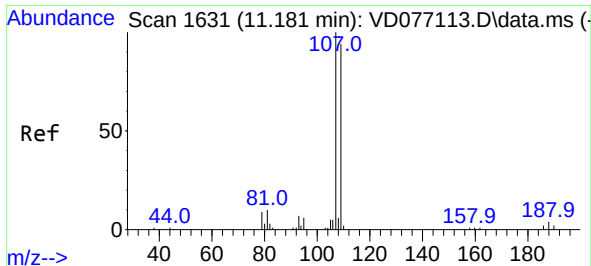
Tgt Ion: 43 Resp: 100293  
Ion Ratio Lower Upper  
43 100  
58 60.7 50.6 75.8  
57 20.4 16.6 24.8  
100 15.5 13.0 19.6



#49  
Dibromochloromethane  
Concen: 24.195 ug/L  
RT: 11.069 min Scan# 1612  
Delta R.T. -0.006 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion: 129 Resp: 103040  
Ion Ratio Lower Upper  
129 100  
127 74.9 56.6 105.2

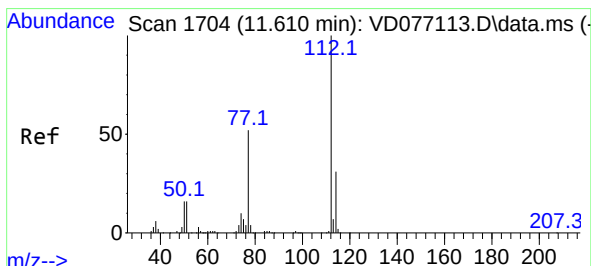
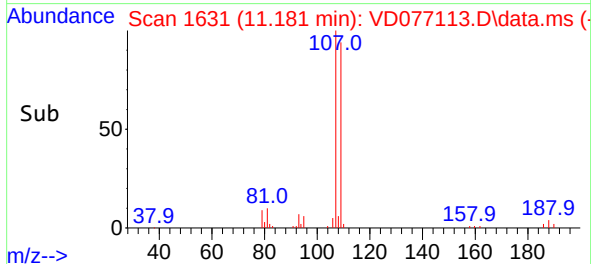
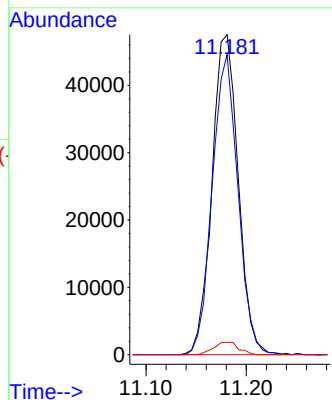
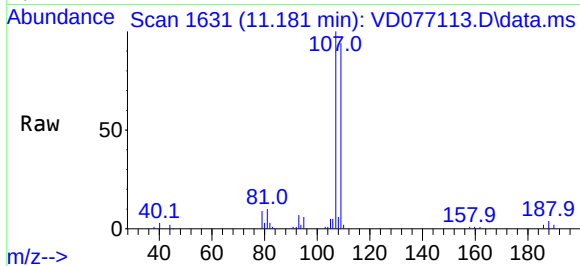




#50  
1,2-Dibromoethane  
Concen: 24.001 ug/L  
RT: 11.181 min Scan# 1631  
Delta R.T. 0.006 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

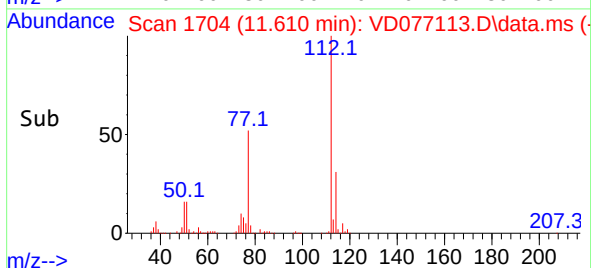
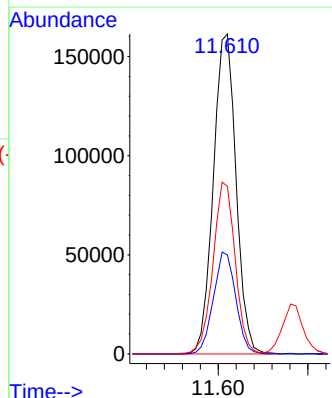
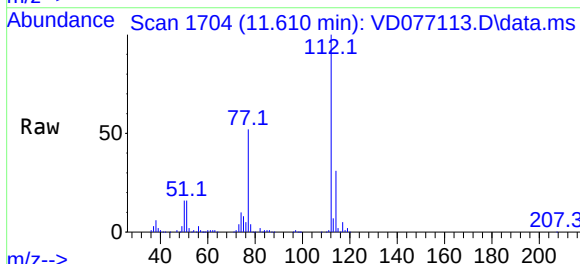
Instrument :  
MSVOA\_D  
ClientSampleId :

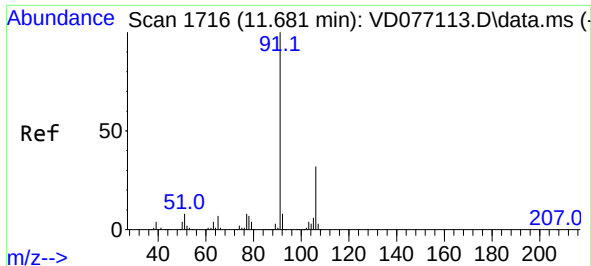
Tgt Ion:107 Resp: 86457  
Ion Ratio Lower Upper  
107 100  
109 93.7 62.4 116.0  
188 3.9 3.0 4.4



#51  
Chlorobenzene  
Concen: 22.919 ug/L  
RT: 11.610 min Scan# 1704  
Delta R.T. 0.006 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion:112 Resp: 283575  
Ion Ratio Lower Upper  
112 100  
114 31.0 21.0 39.0  
77 52.4 41.0 61.4

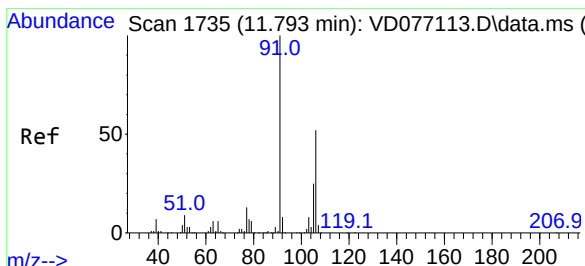
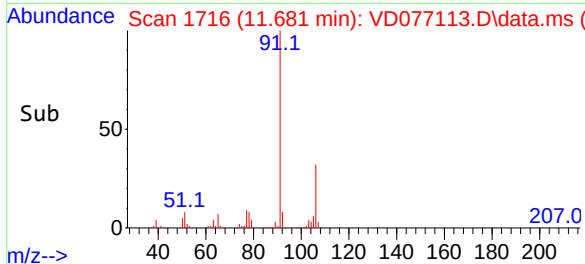
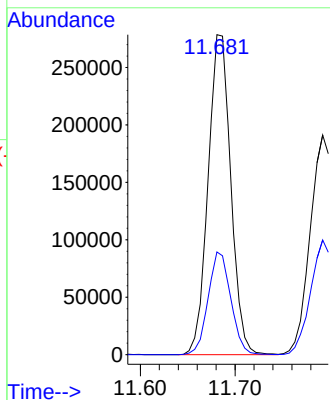
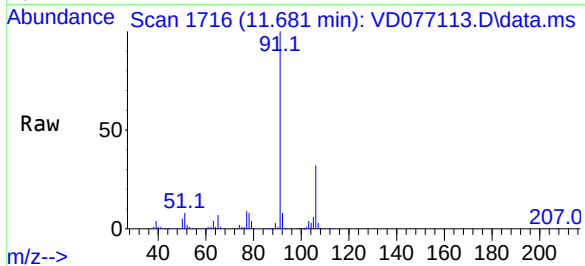




#52  
Ethylbenzene  
Concen: 23.185 ug/L  
RT: 11.681 min Scan# 1716  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

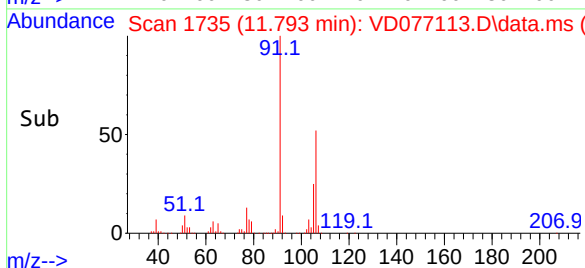
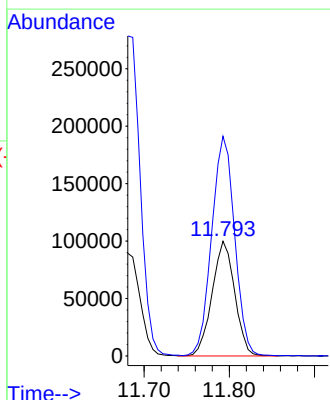
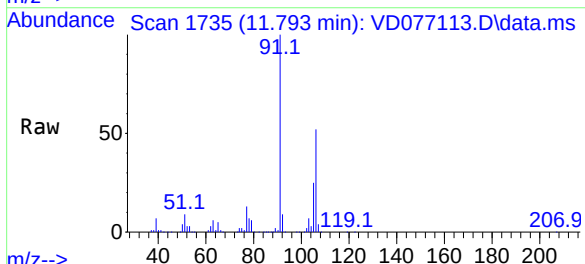
Instrument :  
MSVOA\_D  
ClientSampleId :

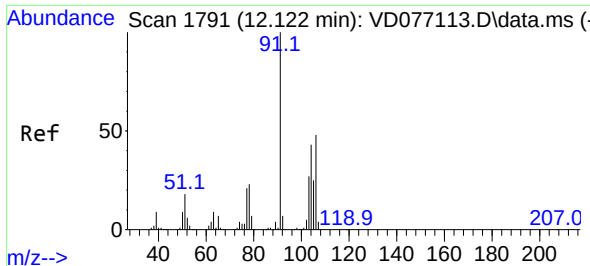
Tgt Ion: 91 Resp: 464299  
Ion Ratio Lower Upper  
91 100  
106 32.1 22.1 41.1



#53  
m,p-Xylene  
Concen: 23.807 ug/L  
RT: 11.793 min Scan# 1735  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion:106 Resp: 184090  
Ion Ratio Lower Upper  
106 100  
91 191.4 138.2 256.6

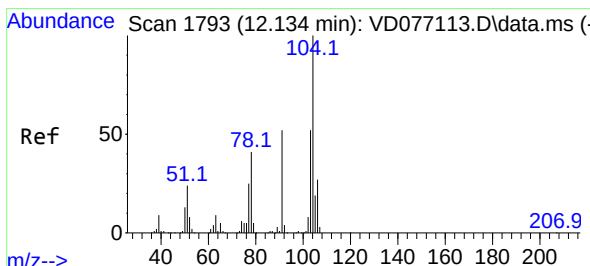
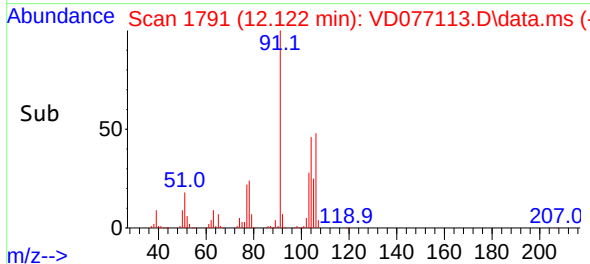
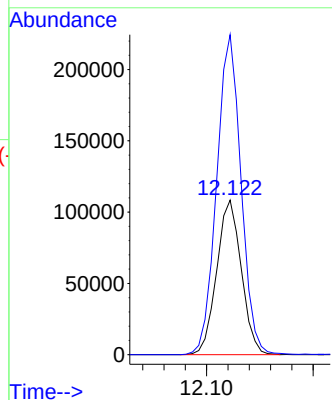
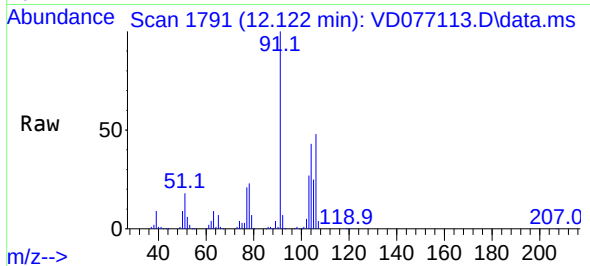




#54  
o-Xylene  
Concen: 23.259 ug/L  
RT: 12.122 min Scan# 1791  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

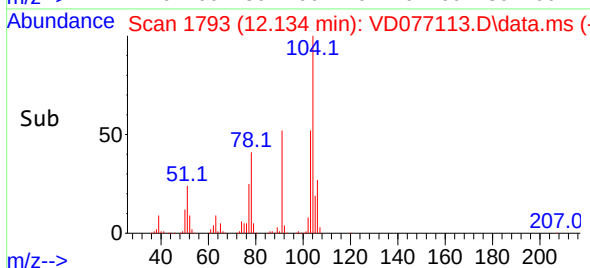
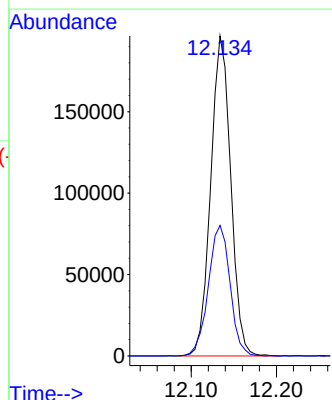
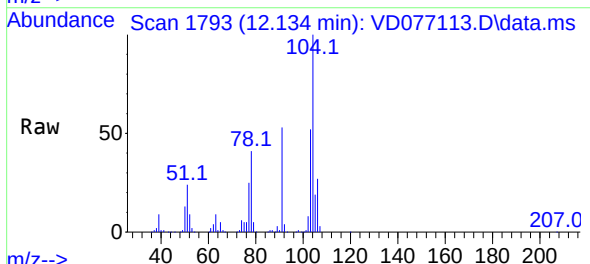
Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion:106 Resp: 173608  
Ion Ratio Lower Upper  
106 100  
91 207.1 146.9 272.7

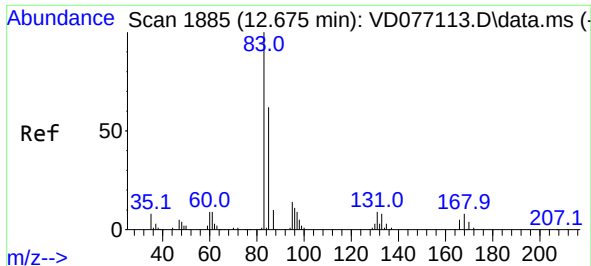


#55  
Styrene  
Concen: 24.073 ug/L  
RT: 12.134 min Scan# 1793  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion:104 Resp: 321100  
Ion Ratio Lower Upper  
104 100  
78 40.8 27.8 51.6



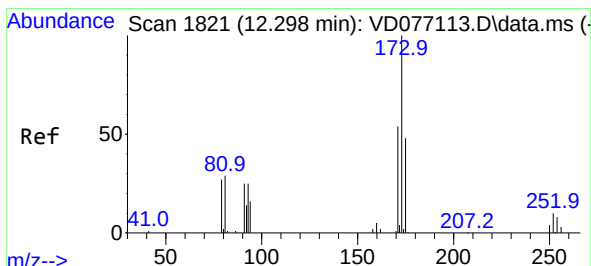
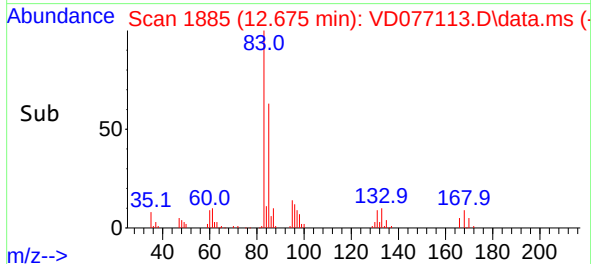
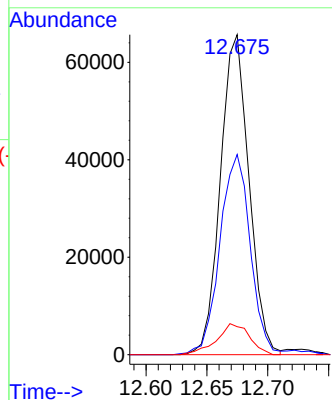
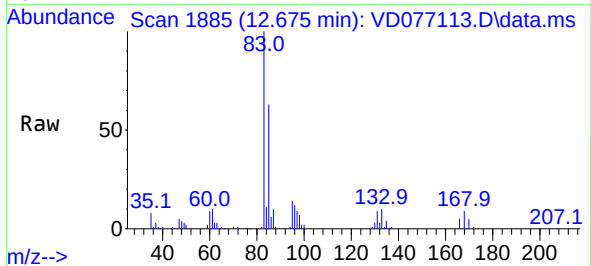




#57  
1,1,2,2-Tetrachloroethane  
Concen: 25.031 ug/L  
RT: 12.675 min Scan# 1885  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

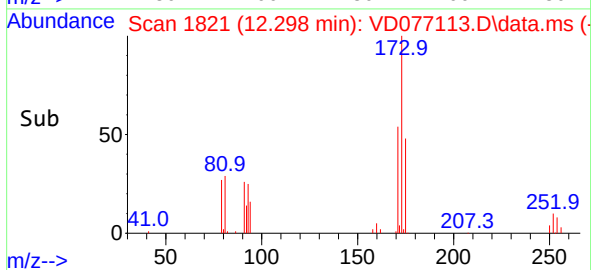
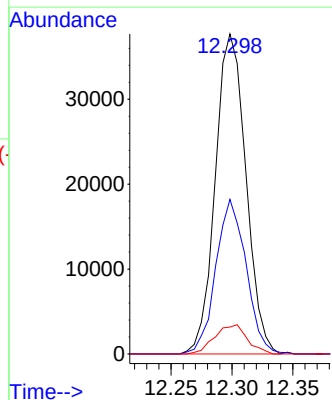
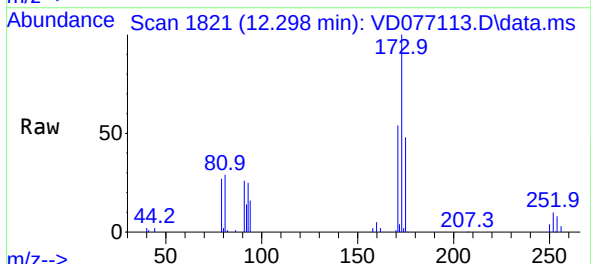
Instrument :  
MSVOA\_D  
ClientSampleId :

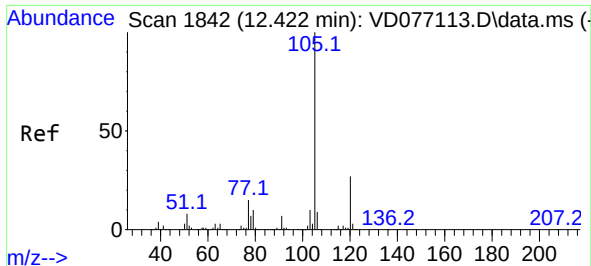
Tgt Ion: 83 Resp: 107350  
Ion Ratio Lower Upper  
83 100  
85 62.6 43.6 81.0  
131 8.7 7.8 11.8



#59  
Bromoform  
Concen: 23.110 ug/L  
RT: 12.298 min Scan# 1821  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion: 173 Resp: 65909  
Ion Ratio Lower Upper  
173 100  
175 47.9 38.7 58.1  
254 9.7 7.0 10.6



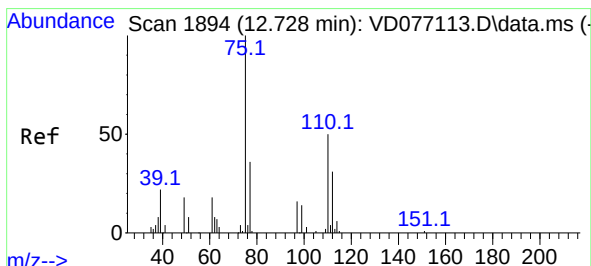
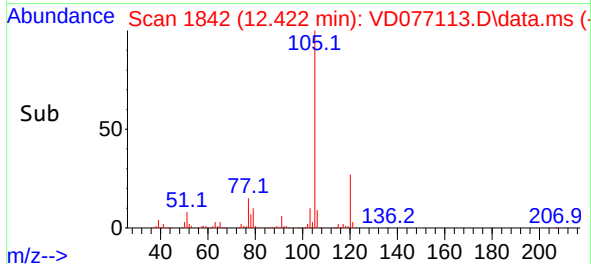
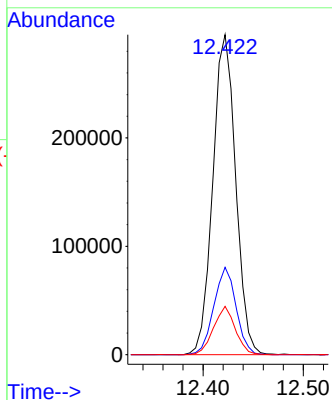
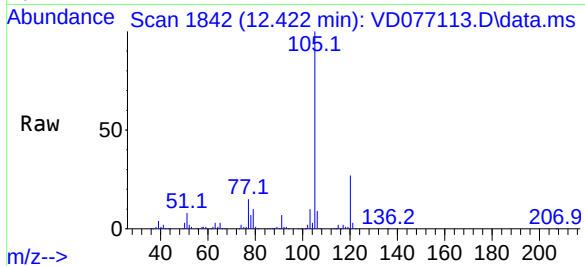


#60  
Isopropylbenzene  
Concen: 22.930 ug/L  
RT: 12.422 min Scan# 1842  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion:105 Resp: 467314

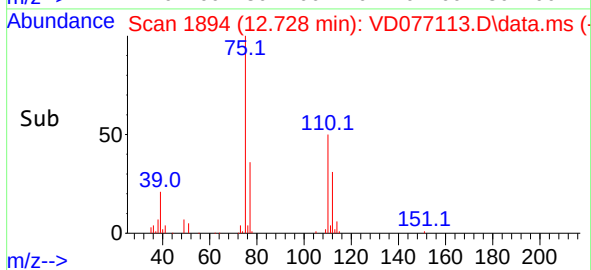
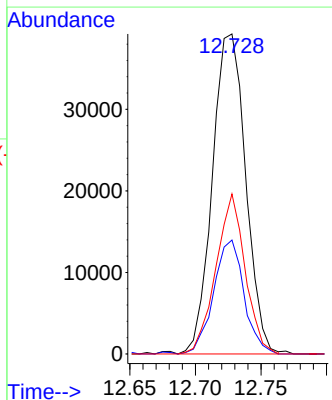
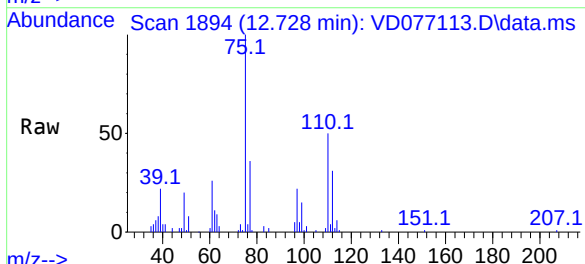
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 26.6  | 21.8  | 32.6  |
| 77  | 14.4  | 11.9  | 17.9  |

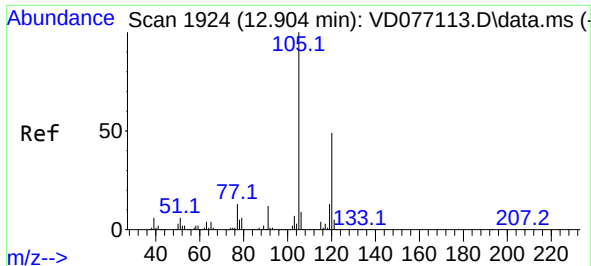


#61  
1,2,3-Trichloropropane  
Concen: 22.957 ug/L  
RT: 12.728 min Scan# 1894  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion: 75 Resp: 69289

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 32.6  | 26.6  | 40.0  |
| 110 | 43.8  | 33.6  | 50.4  |

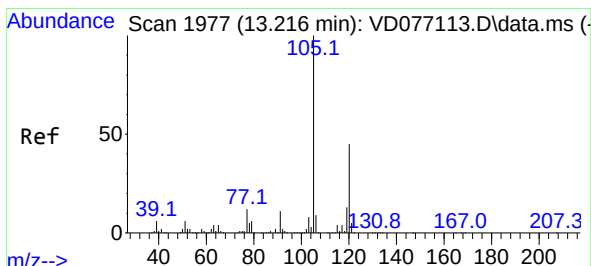
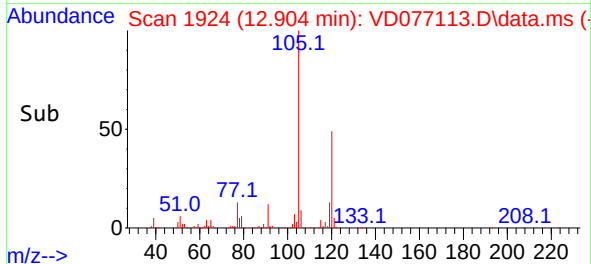
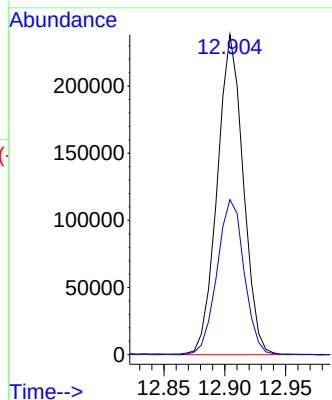
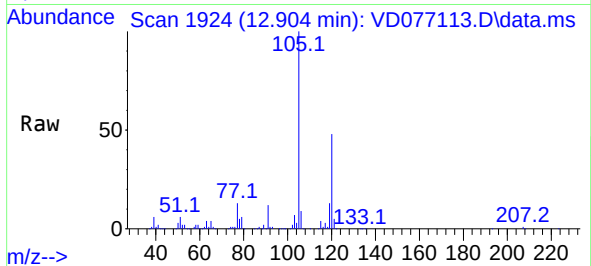




#62  
1,3,5-Trimethylbenzene  
Concen: 22.465 ug/L  
RT: 12.904 min Scan# 1924  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

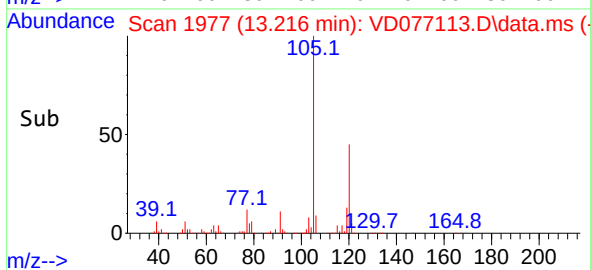
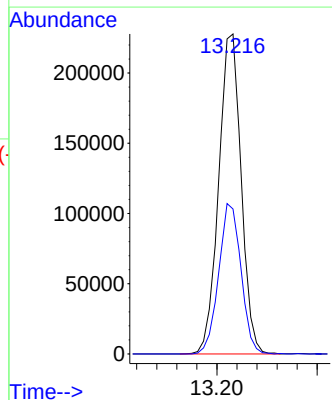
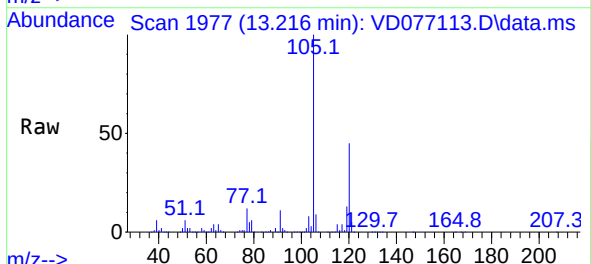
Instrument :  
MSVOA\_D  
ClientSampleId :

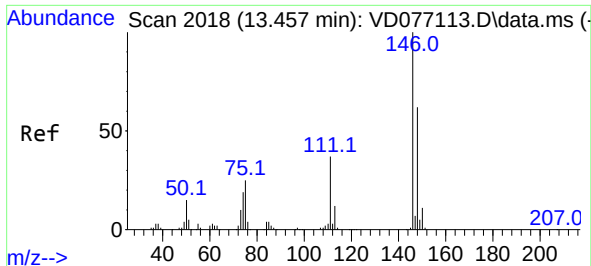
Tgt Ion:105 Resp: 354112  
Ion Ratio Lower Upper  
105 100  
120 50.4 40.2 60.2



#63  
1,2,4-Trimethylbenzene  
Concen: 22.892 ug/L  
RT: 13.216 min Scan# 1977  
Delta R.T. 0.006 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

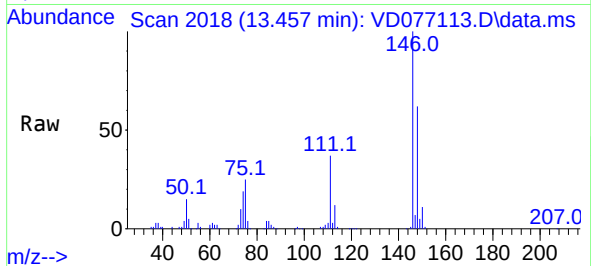
Tgt Ion:105 Resp: 353530  
Ion Ratio Lower Upper  
105 100  
120 46.6 37.8 56.8



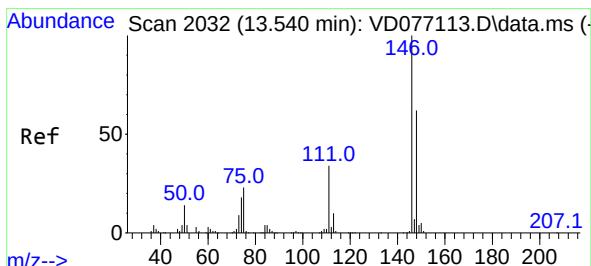
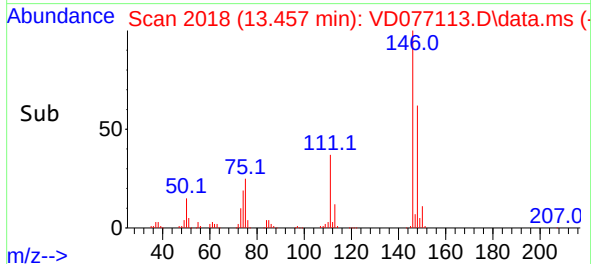
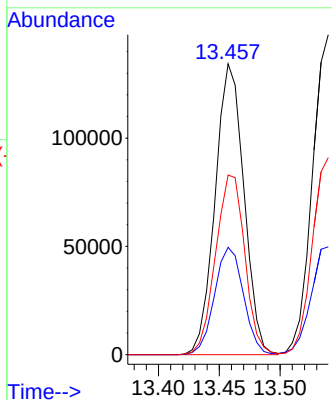


#64  
1,3-Dichlorobenzene  
Concen: 22.761 ug/L  
RT: 13.457 min Scan# 2018  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Instrument :  
MSVOA\_D  
ClientSampleId :

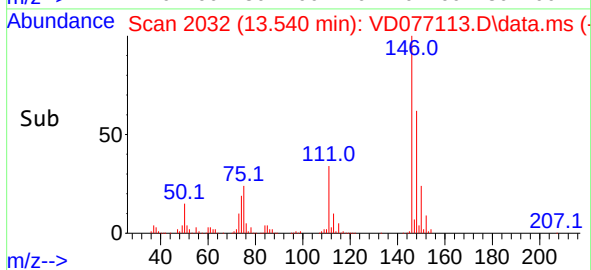
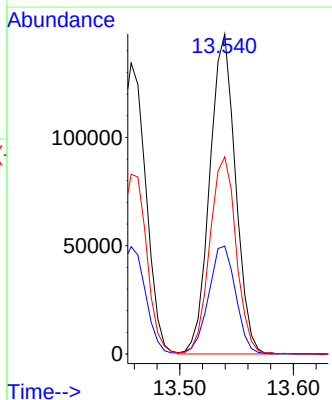
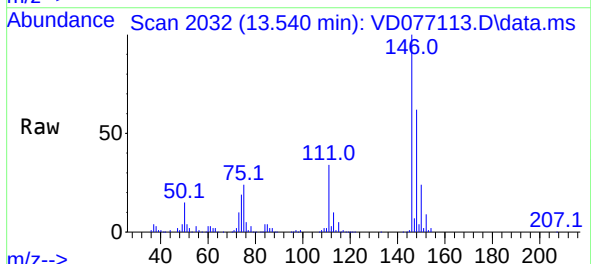


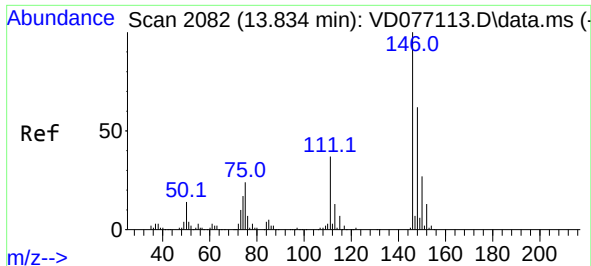
Tgt Ion:146 Resp: 220999  
Ion Ratio Lower Upper  
146 100  
111 36.9 25.2 46.8  
148 61.7 42.7 79.3



#65  
1,4-Dichlorobenzene  
Concen: 22.953 ug/L  
RT: 13.540 min Scan# 2032  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion:146 Resp: 232830  
Ion Ratio Lower Upper  
146 100  
111 33.7 25.5 47.3  
148 61.6 45.5 84.5





#67

1,2-Dichlorobenzene

Concen: 22.975 ug/L

RT: 13.834 min Scan# 2082

Delta R.T. 0.000 min

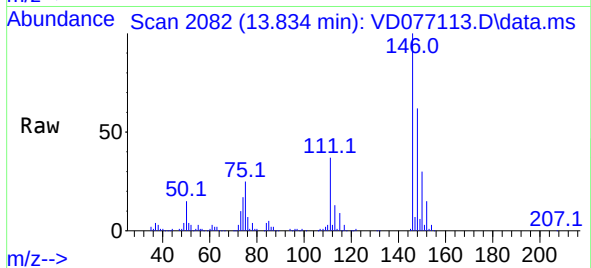
Lab File: VD077113.D

Acq: 14 Sep 2023 09:33

Instrument :

MSVOA\_D

ClientSampleId :



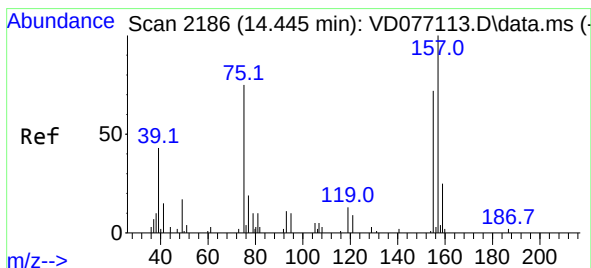
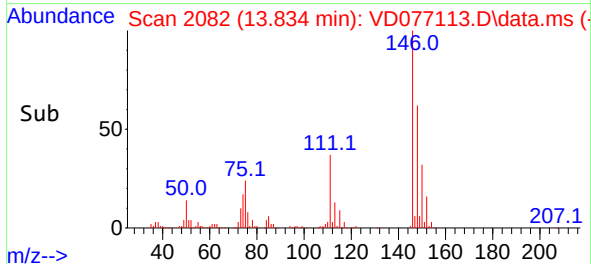
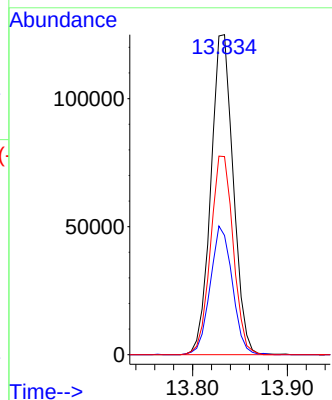
Tgt Ion:146 Resp: 205177

Ion Ratio Lower Upper

146 100

111 37.2 31.8 47.6

148 61.9 53.0 79.4



#68

1,2-Dibromo-3-chloropropane

Concen: 23.685 ug/L

RT: 14.445 min Scan# 2186

Delta R.T. 0.000 min

Lab File: VD077113.D

Acq: 14 Sep 2023 09:33

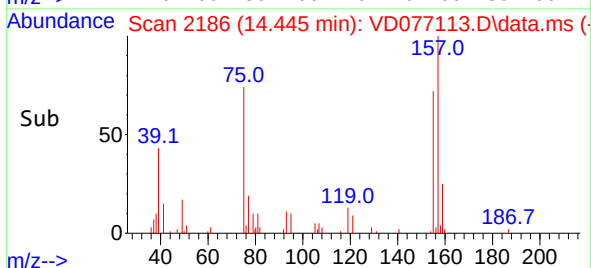
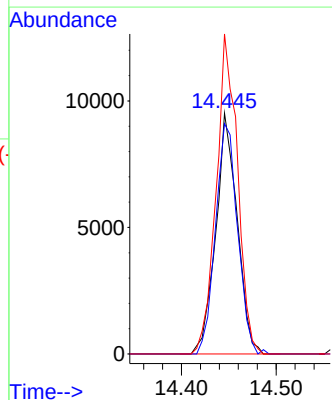
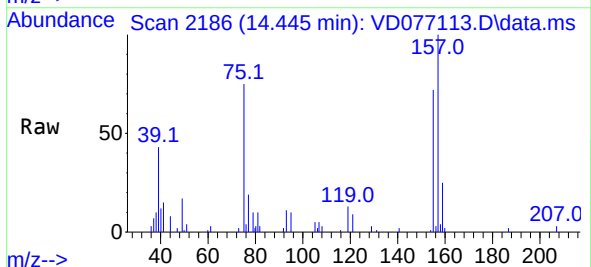
Tgt Ion: 75 Resp: 14951

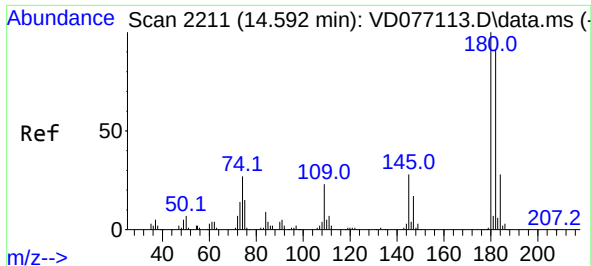
Ion Ratio Lower Upper

75 100

155 95.6 79.0 118.6

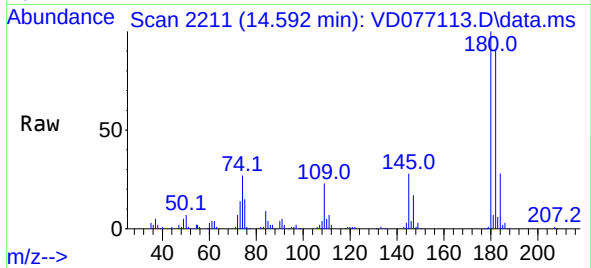
157 132.9 100.2 150.4



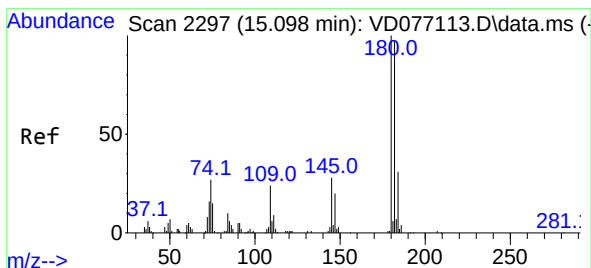
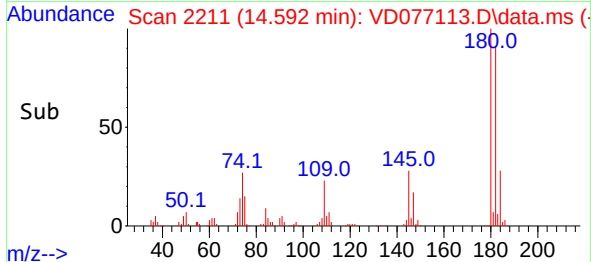
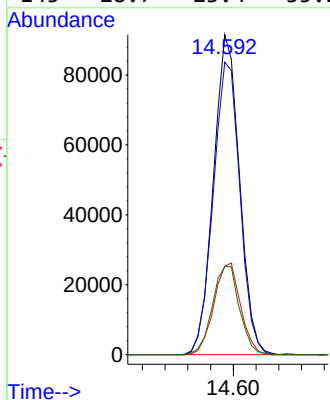


#69  
 1,3,5-Trichlorobenzene  
 Concen: 22.748 ug/L  
 RT: 14.592 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VD077113.D  
 Acq: 14 Sep 2023 09:33

Instrument :  
 MSVOA\_D  
 ClientSampleId :

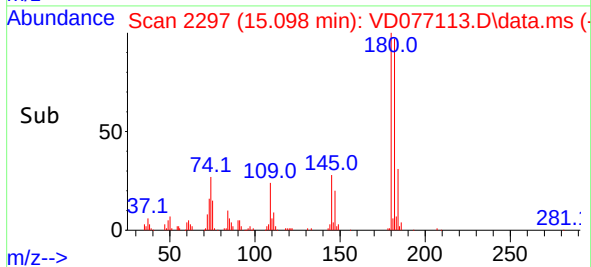
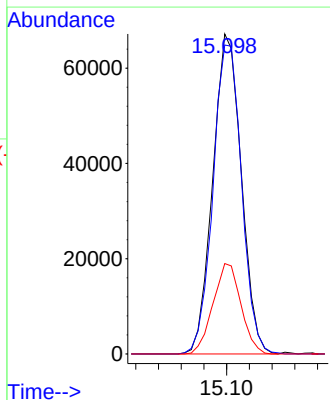
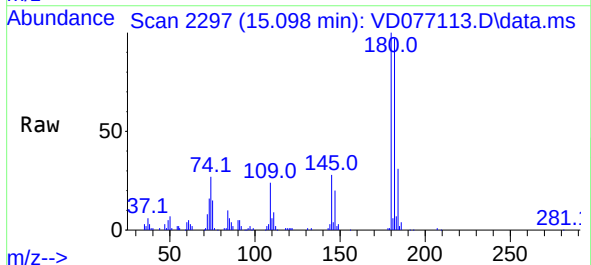


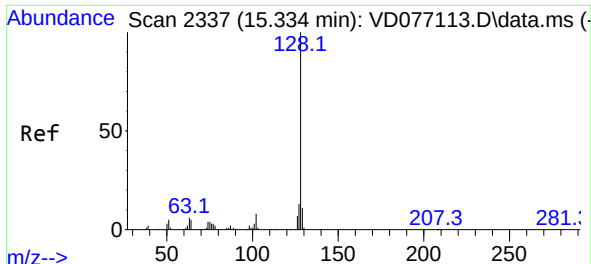
Tgt Ion:180 Resp: 145557  
 Ion Ratio Lower Upper  
 180 100  
 182 93.8 77.0 115.4  
 184 29.1 24.2 36.2  
 145 28.7 23.4 35.2



#70  
 1,2,4-trichlorobenzene  
 Concen: 21.365 ug/L  
 RT: 15.098 min Scan# 2297  
 Delta R.T. 0.000 min  
 Lab File: VD077113.D  
 Acq: 14 Sep 2023 09:33

Tgt Ion:180 Resp: 117007  
 Ion Ratio Lower Upper  
 180 100  
 182 97.1 76.3 114.5  
 145 27.7 23.8 35.8

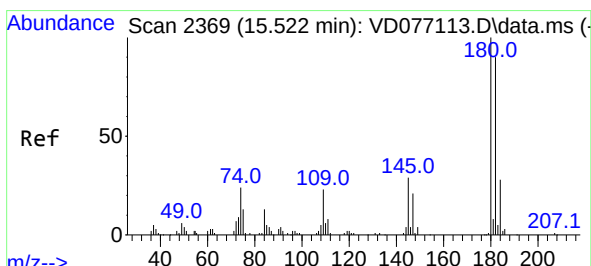
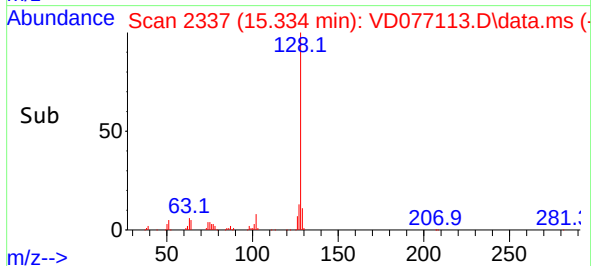
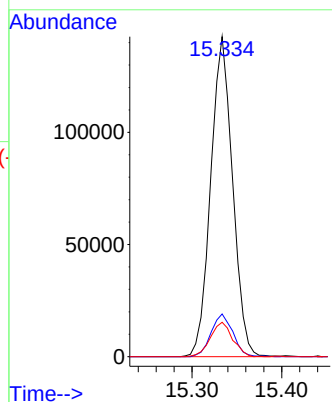
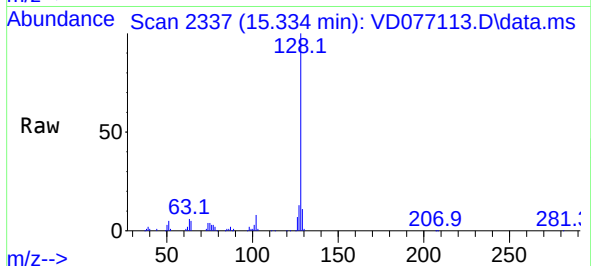




#71  
Naphthalene  
Concen: 22.061 ug/L  
RT: 15.334 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion:128 Resp: 241522  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.6 16.0  
129 10.9 8.6 13.0



#72  
1,2,3-Trichlorobenzene  
Concen: 22.415 ug/L  
RT: 15.522 min Scan# 2369  
Delta R.T. 0.000 min  
Lab File: VD077113.D  
Acq: 14 Sep 2023 09:33

Tgt Ion:180 Resp: 112748  
Ion Ratio Lower Upper  
180 100  
182 95.1 76.6 115.0  
145 30.3 25.4 38.2

