

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX021425\  
 Data File : VX044960.D  
 Acq On : 14 Feb 2025 14:43  
 Operator : JC/MD  
 Sample : Q1352-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Feb 14 22:15:02 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X021025W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 11 03:41:08 2025  
 Response via : Initial Calibration

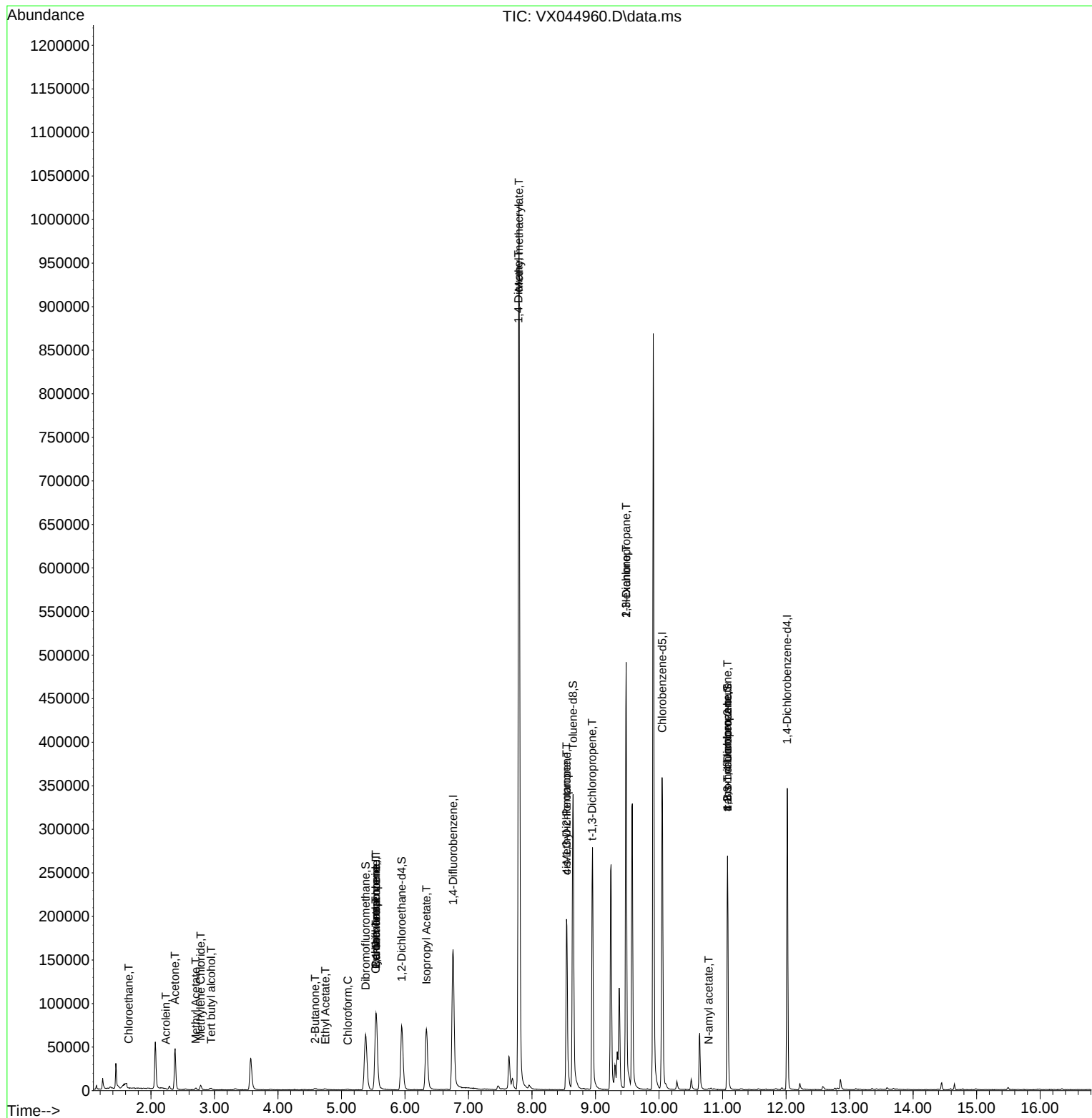
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.544  | 168   | 83348    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 169946   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.049 | 117   | 154821   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 66540    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.946  | 65    | 67561    | 55.375   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 110.740% |          |
| 35) Dibromofluoromethane      | 5.379  | 113   | 56676    | 51.294   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 102.580% |          |
| 50) Toluene-d8                | 8.647  | 98    | 211950   | 50.728   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 101.460% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 72775    | 51.666   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 103.340% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 6) Chloroethane               | 1.648  | 64    | 87       | 1.472    | ug/l #     | 42       |
| 11) Tert butyl alcohol        | 2.947  | 59    | 1739     | 7.683    | ug/l #     | 73       |
| 13) Acrolein                  | 2.233  | 56    | 500      | 2.141    | ug/l       | 95       |
| 16) Acetone                   | 2.380  | 43    | 49394    | 100.706  | ug/l       | 96       |
| 18) Methyl Acetate            | 2.703  | 43    | 2336     | 1.509    | ug/l #     | 89       |
| 20) Methylene Chloride        | 2.782  | 84    | 2256     | 1.878    | ug/l       | 91       |
| 25) 2-Butanone                | 4.587  | 43    | 3440     | 4.319    | ug/l #     | 89       |
| 30) Chloroform                | 5.099  | 83    | 879      | 0.441    | ug/l       | 91       |
| 31) Cyclohexane               | 5.538  | 56    | 2126     | 1.122    | ug/l #     | 24       |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 7316     | 4.589    | ug/l #     | 50       |
| 37) Ethyl Acetate             | 4.745  | 43    | 2719     | 1.533    | ug/l #     | 73       |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 9006     | 5.765    | ug/l #     | 14       |
| 43) Isopropyl Acetate         | 6.336  | 43    | 100784   | 35.198   | ug/l       | 99       |
| 48) Methyl methacrylate       | 7.793  | 41    | 87680    | 64.944   | ug/l #     | 44       |
| 49) 1,4-Dioxane               | 7.787  | 88    | 70       | 2.417    | ug/l #     | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.543  | 43    | 77024    | 44.248   | ug/l #     | 50       |
| 53) t-1,3-Dichloropropene     | 8.945  | 75    | 634      | 0.377    | ug/l #     | 42       |
| 54) cis-1,3-Dichloropropene   | 8.543  | 75    | 32781    | 17.471   | ug/l #     | 64       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 4585     | 2.299    | ug/l #     | 42       |
| 59) 2-Hexanone                | 9.482  | 43    | 61975    | 49.414   | ug/l #     | 51       |
| 74) N-amyl acetate            | 10.781 | 43    | 591      | 0.244    | ug/l #     | 43       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 38480    | 26.083   | ug/l #     | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 38480    | 67.095   | ug/l #     | 11       |
| -----                         |        |       |          |          |            |          |

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

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ClientSampleId :

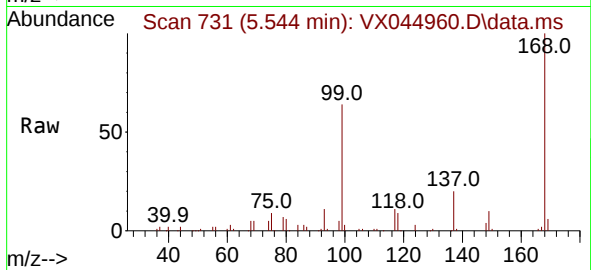
Quant Time: Feb 14 22:15:02 2025  
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Quant Title : SW846 8260  
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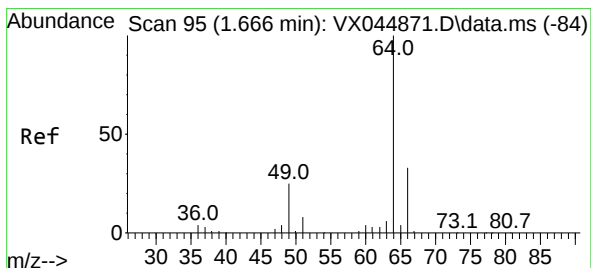
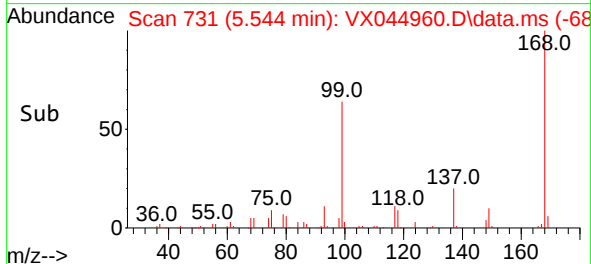
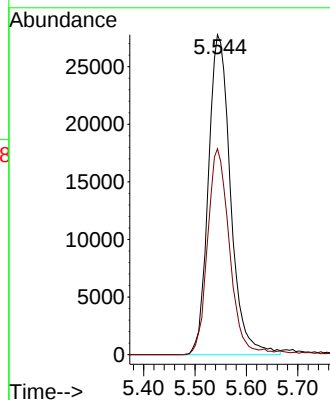


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. 0.001 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

Instrument :  
MSVOA\_X  
ClientSampleId :

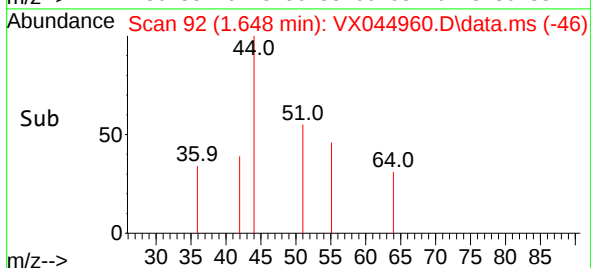
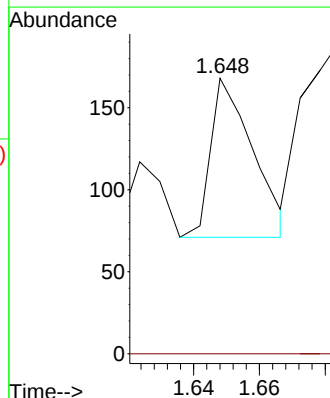
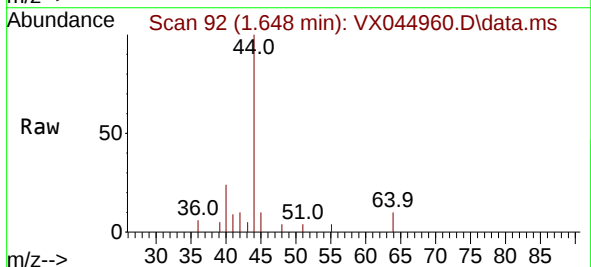


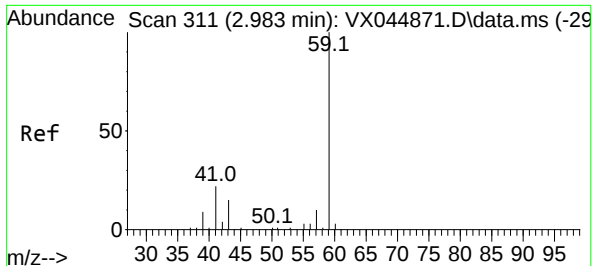
Tgt Ion:168 Resp: 83348  
Ion Ratio Lower Upper  
168 100  
99 64.3 51.2 76.8



#6  
Chloroethane  
Concen: 1.472 ug/l  
RT: 1.648 min Scan# 92  
Delta R.T. -0.018 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

Tgt Ion: 64 Resp: 87  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.9 38.9#





#11

Tert butyl alcohol

Concen: 7.683 ug/l

RT: 2.947 min Scan# 305

Delta R.T. -0.036 min

Lab File: VX044960.D

Acq: 14 Feb 2025 14:43

Instrument :

MSVOA\_X

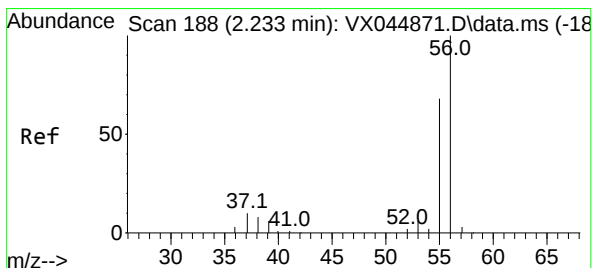
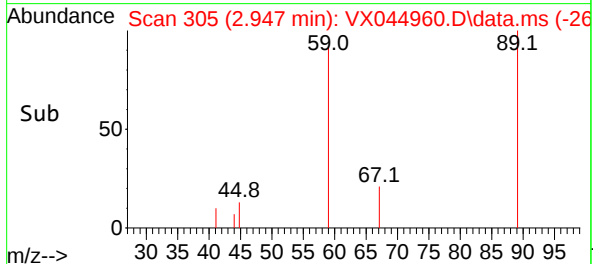
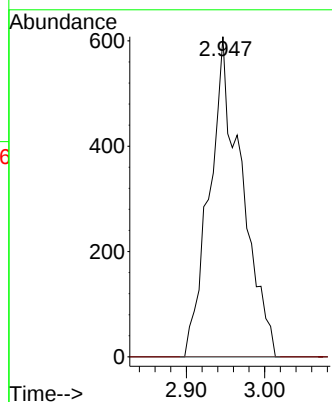
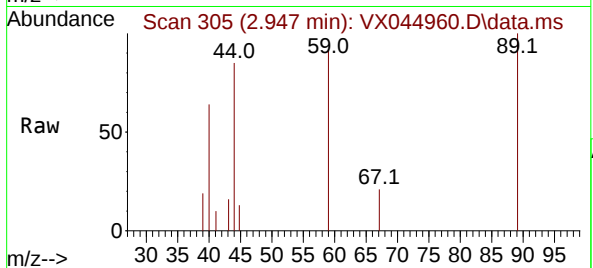
ClientSampleId :

Tgt Ion: 59 Resp: 1739

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



#13

Acrolein

Concen: 2.141 ug/l

RT: 2.233 min Scan# 188

Delta R.T. 0.000 min

Lab File: VX044960.D

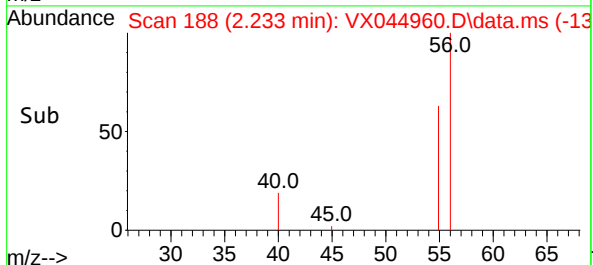
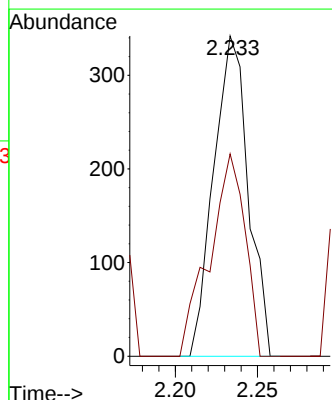
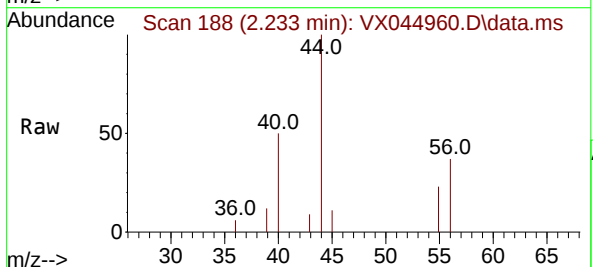
Acq: 14 Feb 2025 14:43

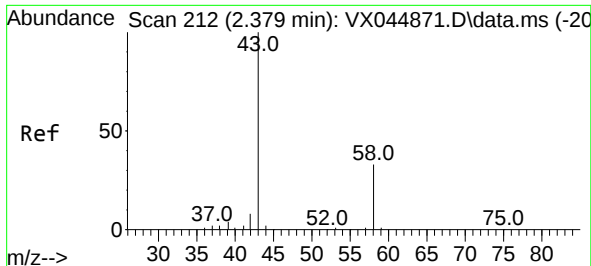
Tgt Ion: 56 Resp: 500

Ion Ratio Lower Upper

56 100

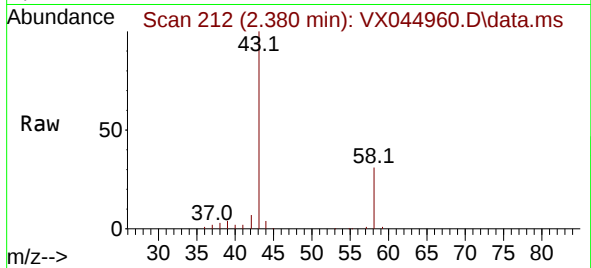
55 65.2 55.7 83.5



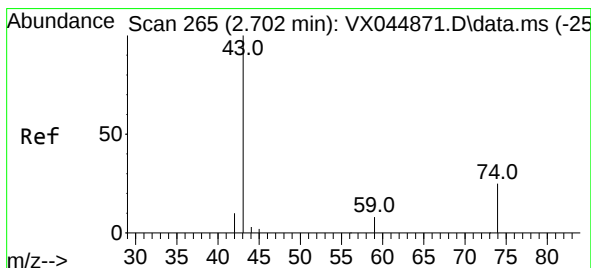
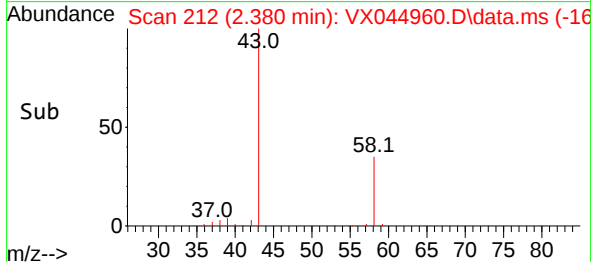
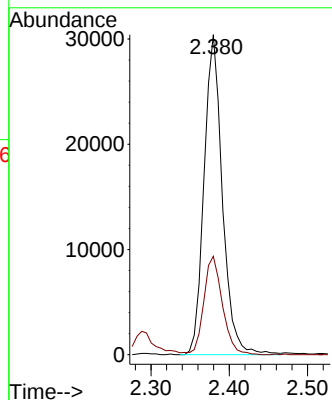


#16  
Acetone  
Concen: 100.706 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.000 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

Instrument :  
MSVOA\_X  
ClientSampleId :

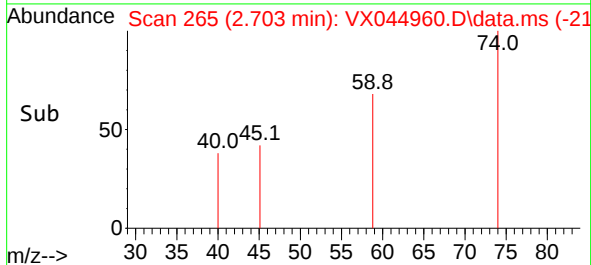
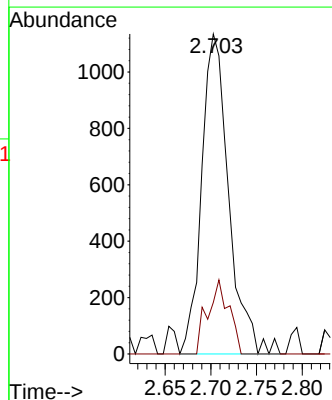
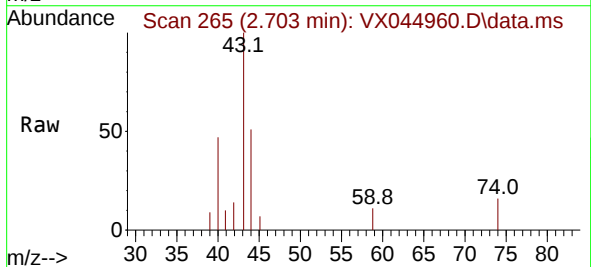


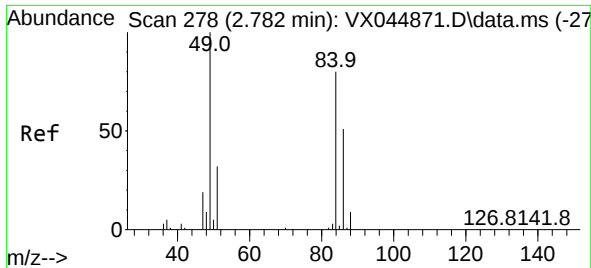
Tgt Ion: 43 Resp: 49394  
Ion Ratio Lower Upper  
43 100  
58 30.8 26.5 39.7



#18  
Methyl Acetate  
Concen: 1.509 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. 0.000 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

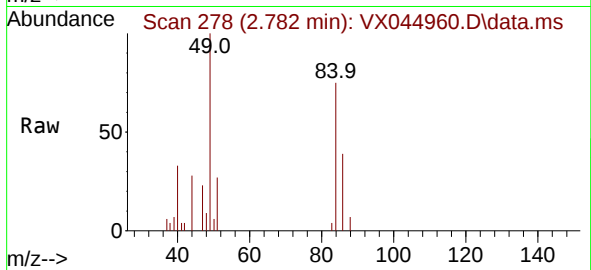
Tgt Ion: 43 Resp: 2336  
Ion Ratio Lower Upper  
43 100  
74 18.2 18.9 28.3#



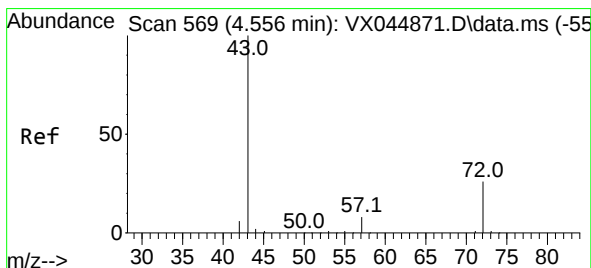
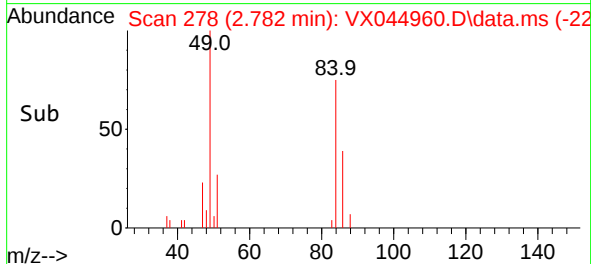
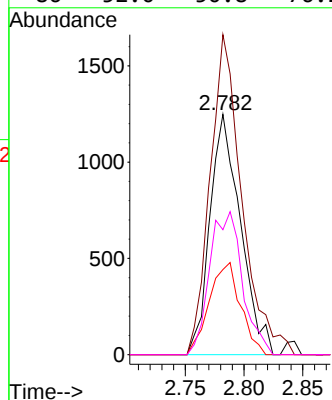


#20  
Methylene Chloride  
Concen: 1.878 ug/l  
RT: 2.782 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

Instrument :  
MSVOA\_X  
ClientSampleId :

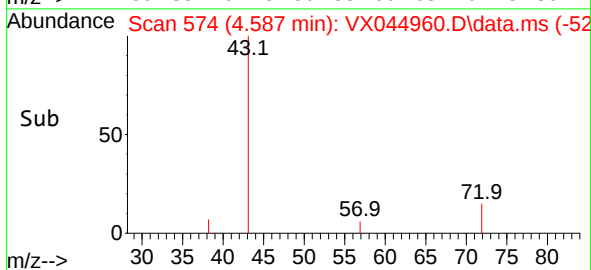
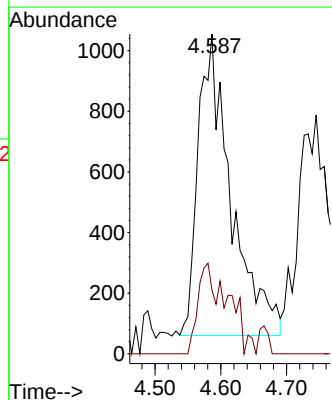
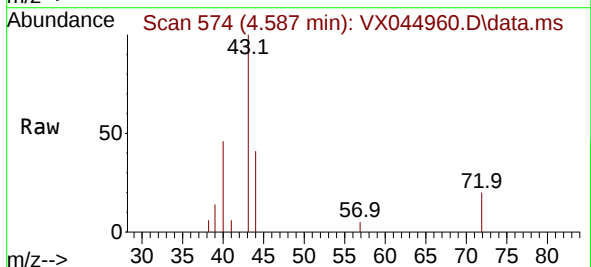


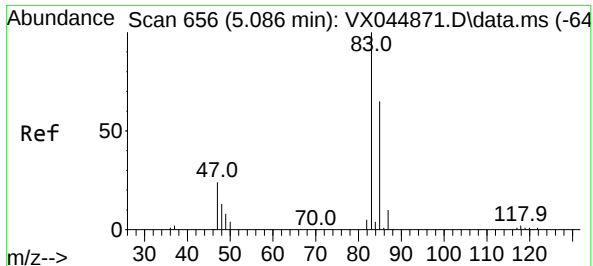
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 2256  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 133.2 | 100.1 | 150.1 |
| 51       | 35.4  | 31.7  | 47.5  |
| 86       | 52.0  | 50.8  | 76.2  |



#25  
2-Butanone  
Concen: 4.319 ug/l  
RT: 4.587 min Scan# 574  
Delta R.T. 0.031 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 3440  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 21.0  | 21.2  | 31.8# |





#30

Chloroform

Concen: 0.441 ug/l

RT: 5.099 min Scan# 61

Delta R.T. 0.012 min

Lab File: VX044960.D

Acq: 14 Feb 2025 14:43

Instrument :

MSVOA\_X

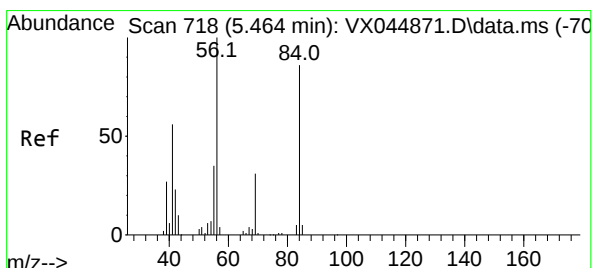
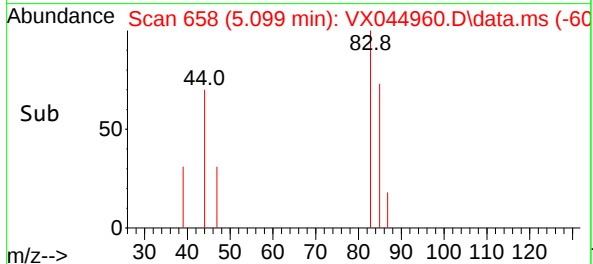
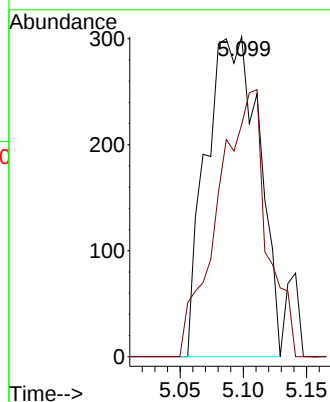
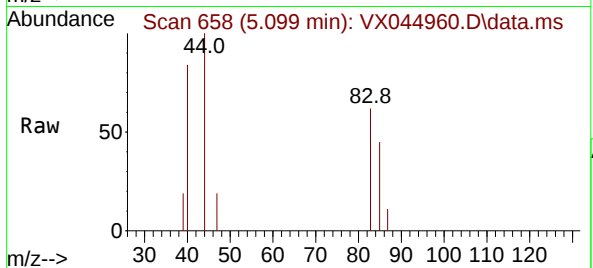
ClientSampleId :

Tgt Ion: 83 Resp: 879

Ion Ratio Lower Upper

83 100

85 72.5 52.1 78.1



#31

Cyclohexane

Concen: 1.122 ug/l

RT: 5.538 min Scan# 730

Delta R.T. 0.073 min

Lab File: VX044960.D

Acq: 14 Feb 2025 14:43

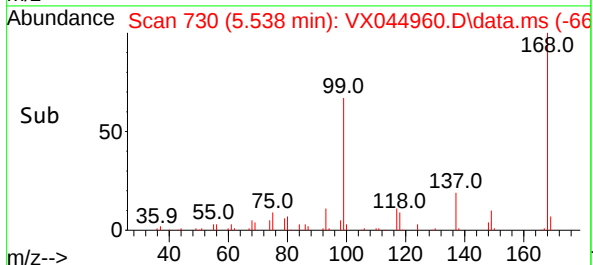
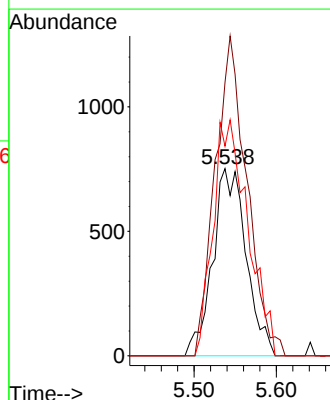
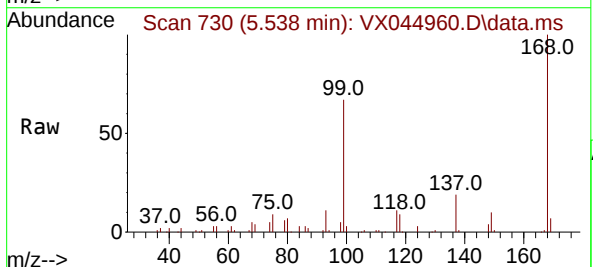
Tgt Ion: 56 Resp: 2126

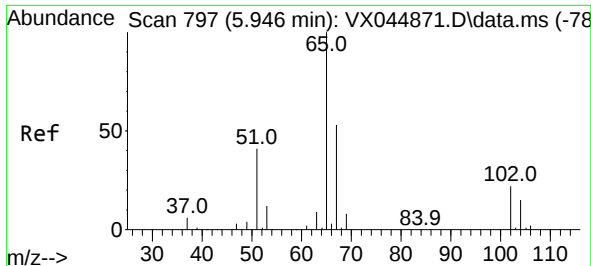
Ion Ratio Lower Upper

56 100

69 146.0 24.4 36.6#

84 112.0 69.0 103.6#





#33

1,2-Dichloroethane-d4

Concen: 55.375 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.000 min

Lab File: VX044960.D

Acq: 14 Feb 2025 14:43

Instrument :

MSVOA\_X

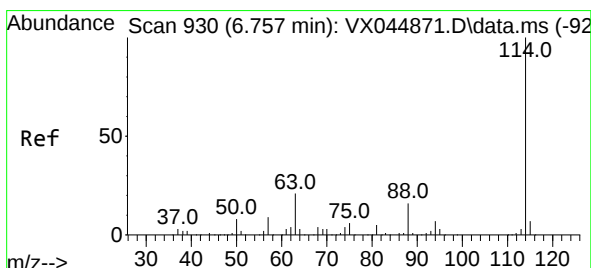
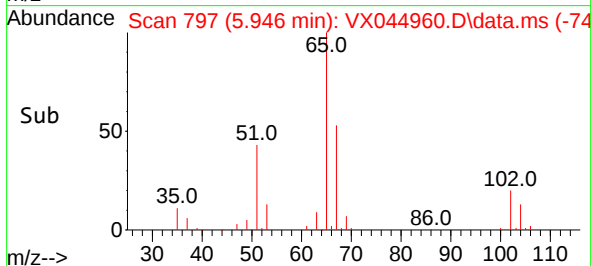
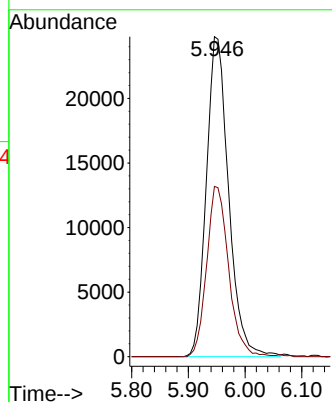
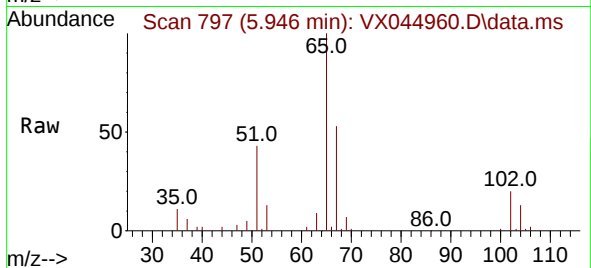
ClientSampleId :

Tgt Ion: 65 Resp: 67561

Ion Ratio Lower Upper

65 100

67 52.6 0.0 108.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044960.D

Acq: 14 Feb 2025 14:43

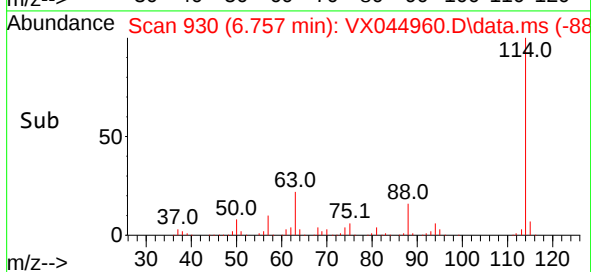
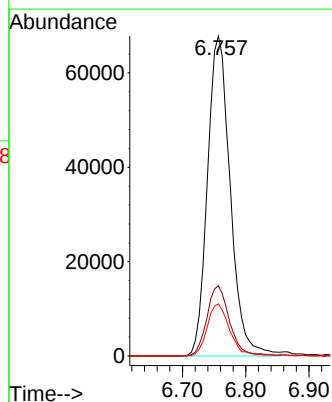
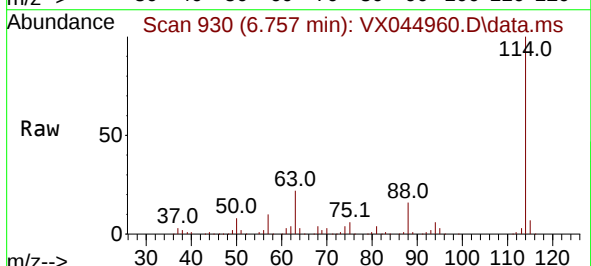
Tgt Ion: 114 Resp: 169946

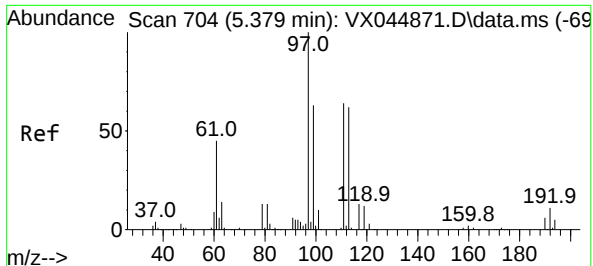
Ion Ratio Lower Upper

114 100

63 22.0 0.0 42.4

88 16.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 51.294 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044960.D

Acq: 14 Feb 2025 14:43

Instrument :

MSVOA\_X

ClientSampleId :

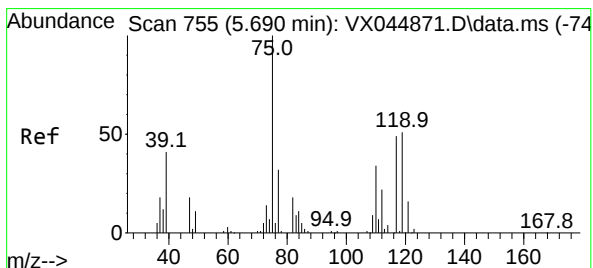
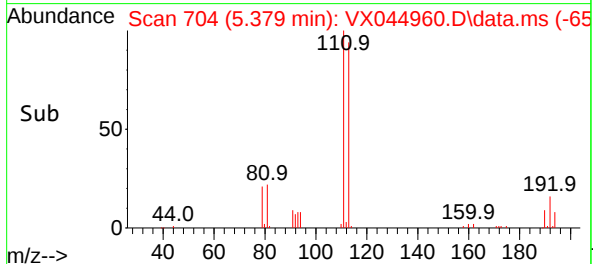
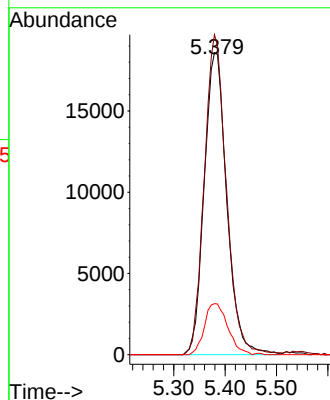
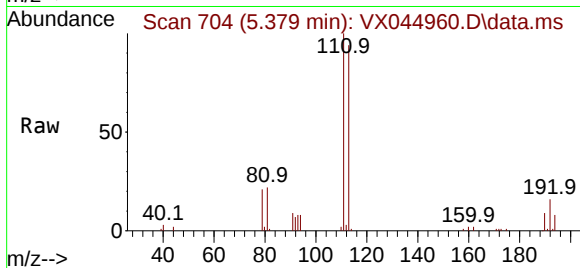
Tgt Ion:113 Resp: 56676

Ion Ratio Lower Upper

113 100

111 103.6 83.5 125.3

192 17.5 14.4 21.6



#36

1,1-Dichloropropene

Concen: 4.589 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.146 min

Lab File: VX044960.D

Acq: 14 Feb 2025 14:43

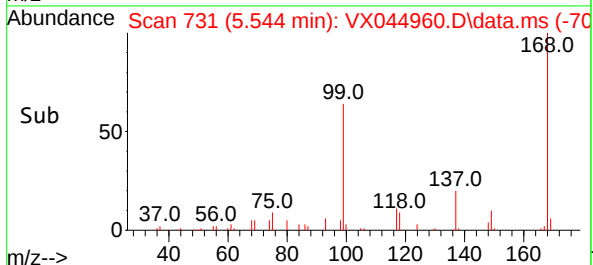
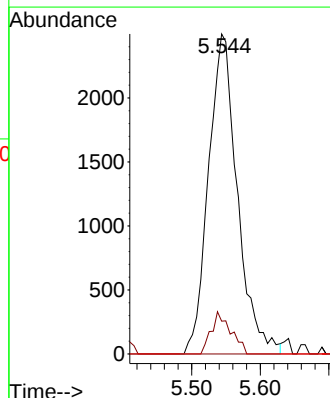
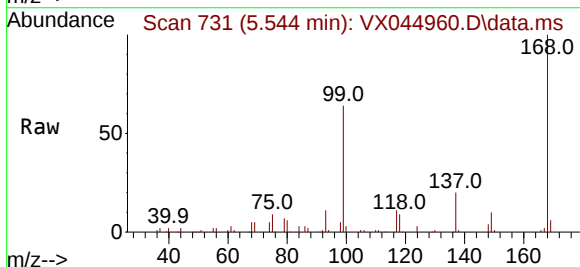
Tgt Ion: 75 Resp: 7316

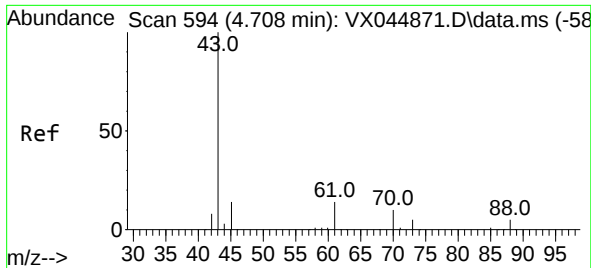
Ion Ratio Lower Upper

75 100

110 8.9 17.2 51.6#

77 0.0 24.6 37.0#

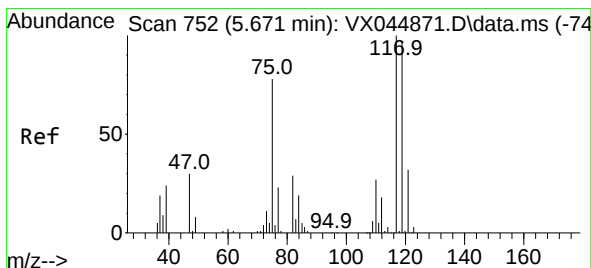
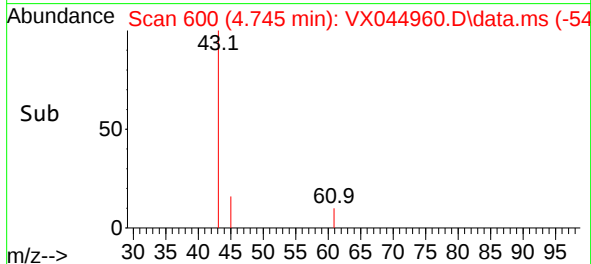
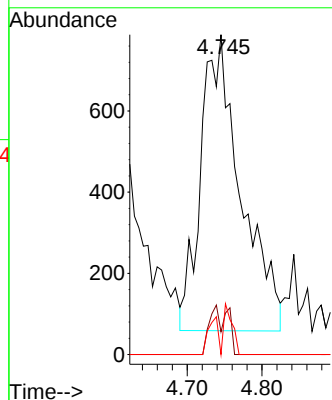
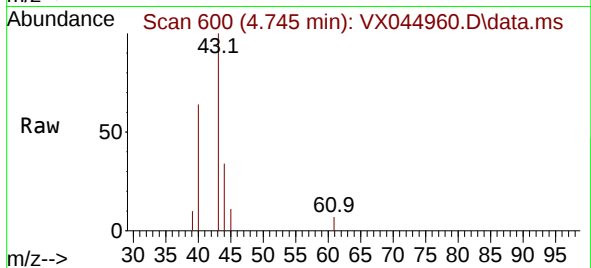




#37  
Ethyl Acetate  
Concen: 1.533 ug/l  
RT: 4.745 min Scan# 600  
Delta R.T. 0.037 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

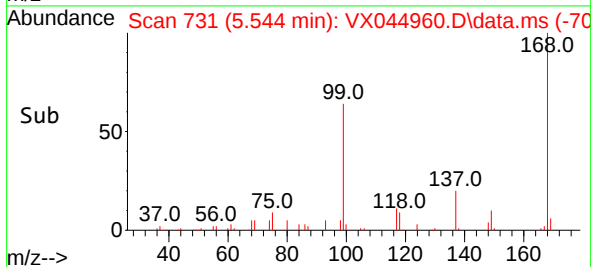
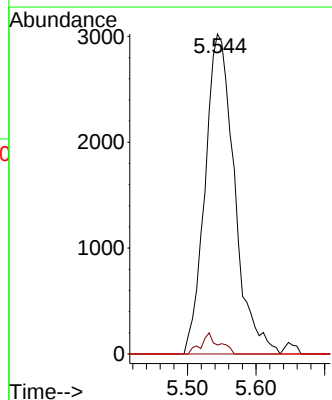
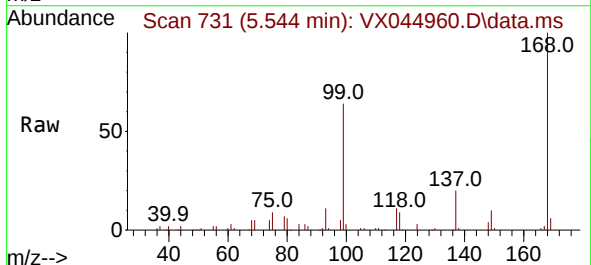
Instrument :  
MSVOA\_X  
ClientSampleId :

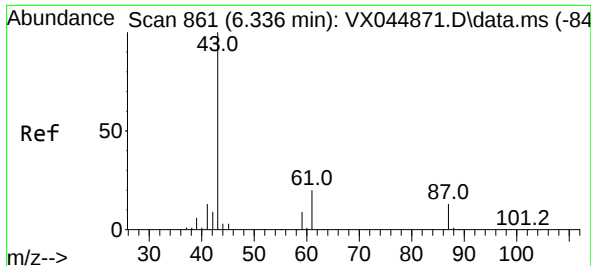
Tgt Ion: 43 Resp: 2719  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.0 16.4#  
70 3.7 8.2 12.2#



#38  
Carbon Tetrachloride  
Concen: 5.765 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.128 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

Tgt Ion: 117 Resp: 9006  
Ion Ratio Lower Upper  
117 100  
119 2.8 77.5 116.3#  
121 0.0 25.6 38.4#

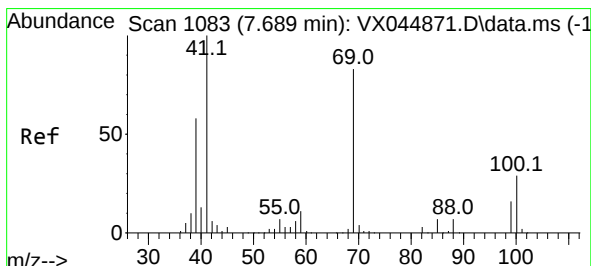
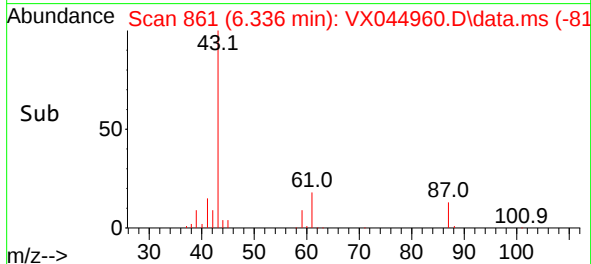
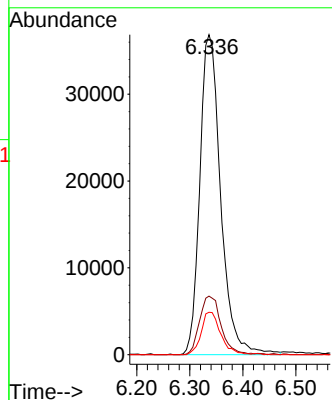
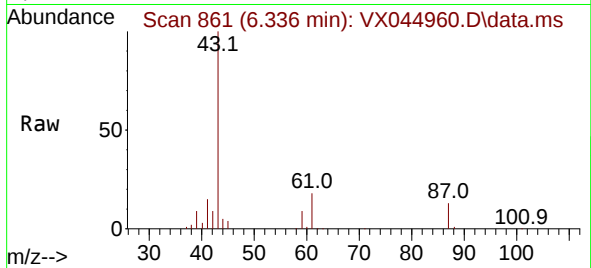




#43  
Isopropyl Acetate  
Concen: 35.198 ug/l  
RT: 6.336 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

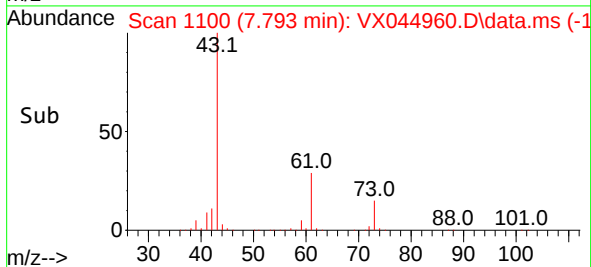
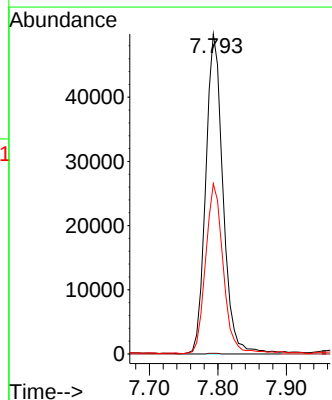
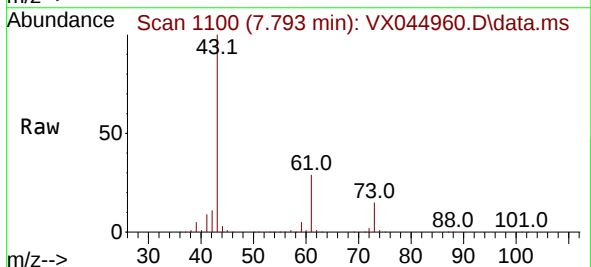
Instrument :  
MSVOA\_X  
ClientSampleId :

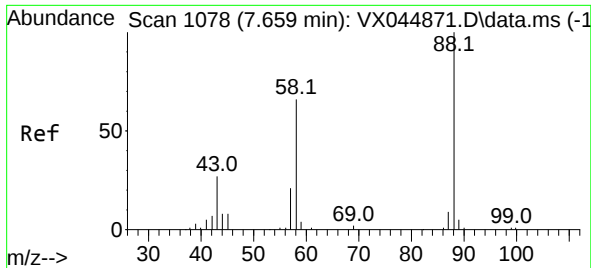
Tgt Ion: 43 Resp: 100784  
Ion Ratio Lower Upper  
43 100  
61 18.8 15.8 23.8  
87 12.4 10.0 15.0



#48  
Methyl methacrylate  
Concen: 64.944 ug/l  
RT: 7.793 min Scan# 1100  
Delta R.T. 0.104 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

Tgt Ion: 41 Resp: 87680  
Ion Ratio Lower Upper  
41 100  
69 0.1 65.8 98.8#  
39 53.8 46.4 69.6

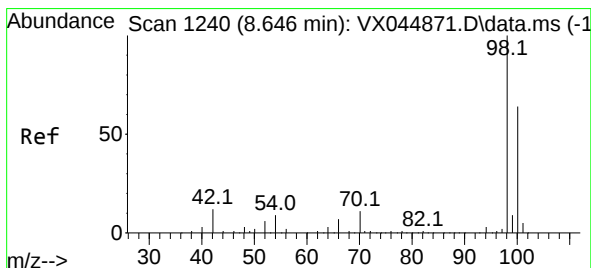
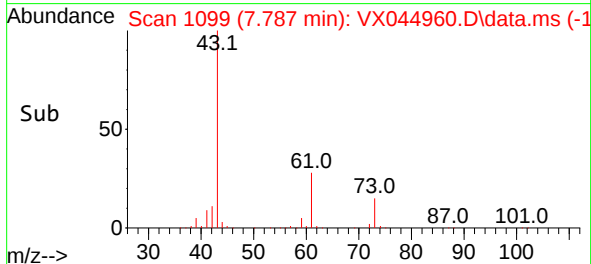
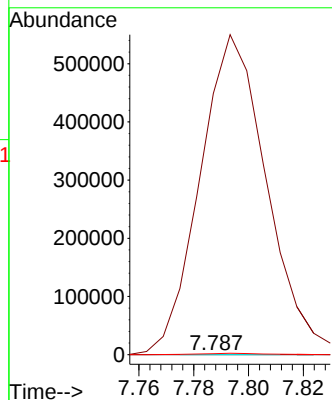
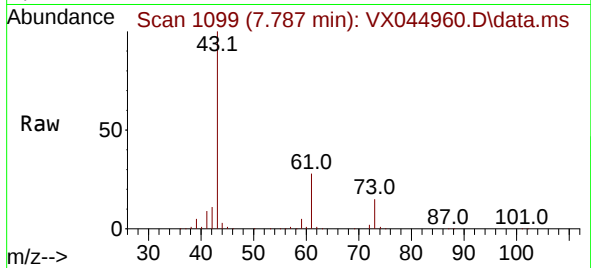




#49  
1,4-Dioxane  
Concen: 2.417 ug/l  
RT: 7.787 min Scan# 1078  
Delta R.T. 0.128 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

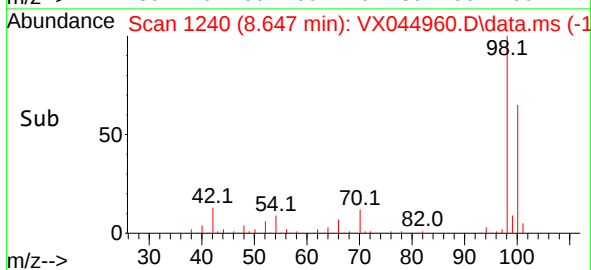
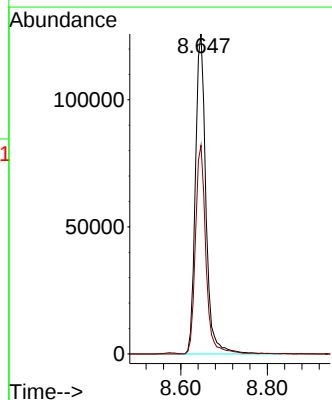
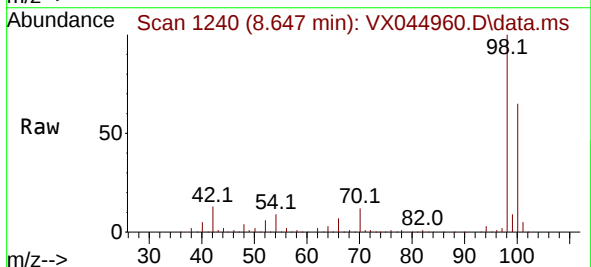
Instrument :  
MSVOA\_X  
ClientSampleId :

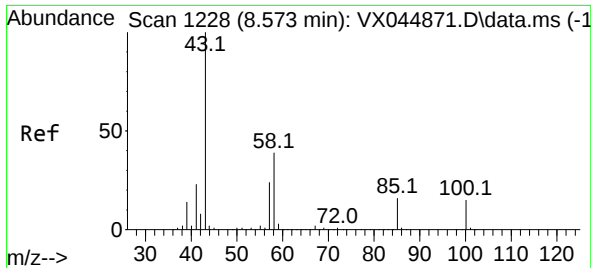
Tgt Ion: 88 Resp: 70  
Ion Ratio Lower Upper  
88 100  
43 1364122.9 26.6 39.8#  
58 5911.4 55.9 83.9#



#50  
Toluene-d8  
Concen: 50.728 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

Tgt Ion: 98 Resp: 211950  
Ion Ratio Lower Upper  
98 100  
100 64.5 52.7 79.1

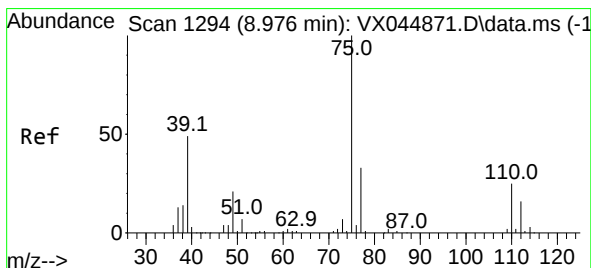
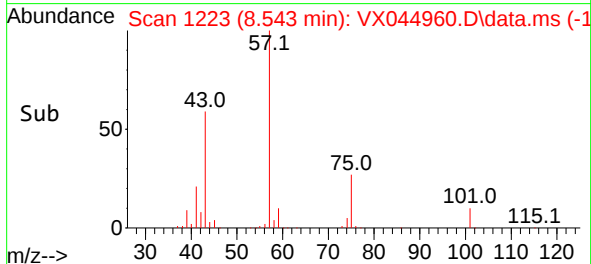
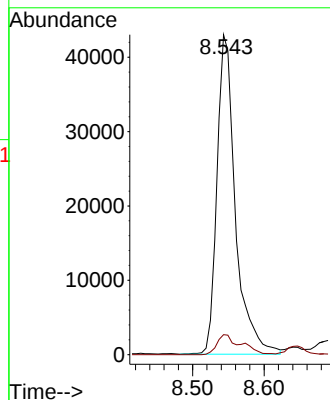
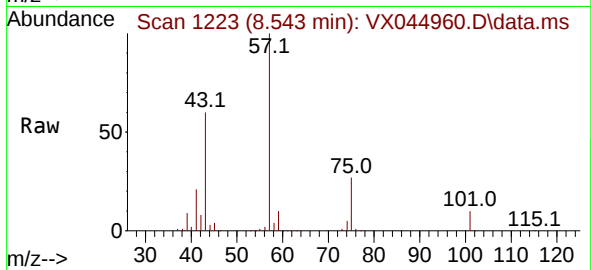




#51  
4-Methyl-2-Pentanone  
Concen: 44.248 ug/l  
RT: 8.543 min Scan# 11  
Delta R.T. -0.030 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

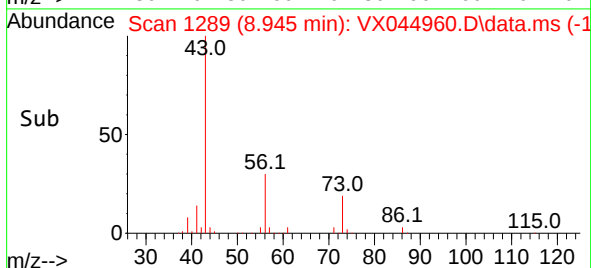
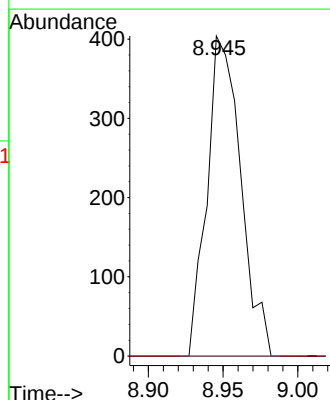
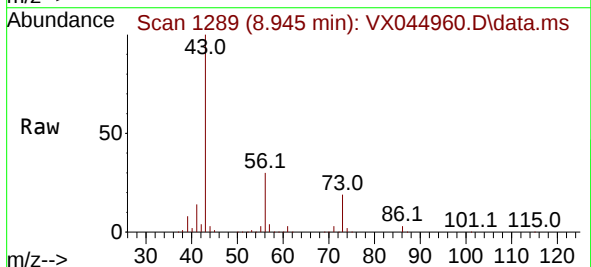
Instrument :  
MSVOA\_X  
ClientSampleId :

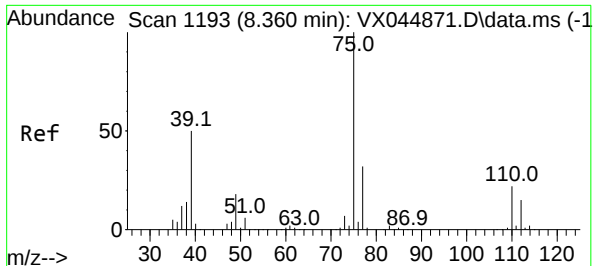
Tgt Ion: 43 Resp: 77024  
Ion Ratio Lower Upper  
43 100  
58 8.2 30.8 46.2#



#53  
t-1,3-Dichloropropene  
Concen: 0.377 ug/l  
RT: 8.945 min Scan# 1289  
Delta R.T. -0.030 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

Tgt Ion: 75 Resp: 634  
Ion Ratio Lower Upper  
75 100  
77 0.0 26.0 39.0#

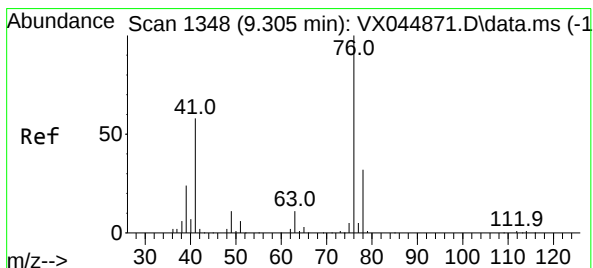
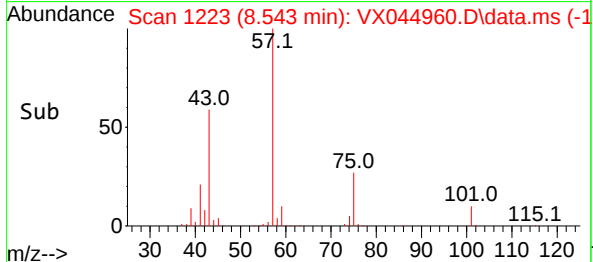
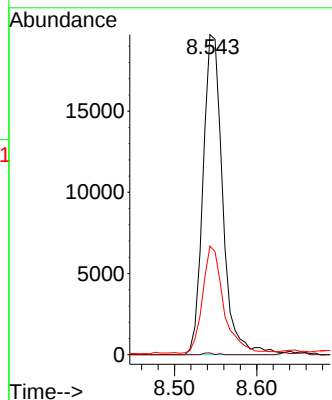
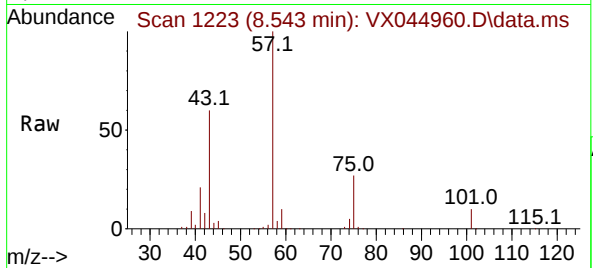




#54  
 cis-1,3-Dichloropropene  
 Concen: 17.471 ug/l  
 RT: 8.543 min Scan# 1193  
 Delta R.T. 0.183 min  
 Lab File: VX044960.D  
 Acq: 14 Feb 2025 14:43

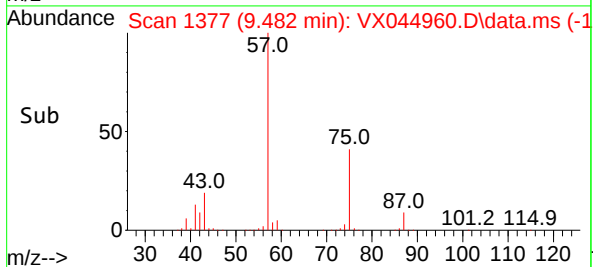
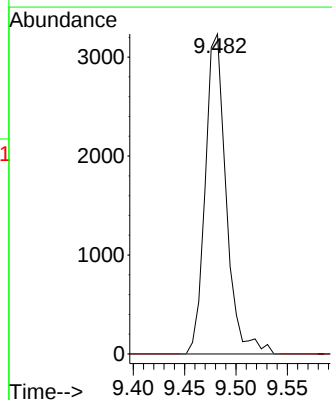
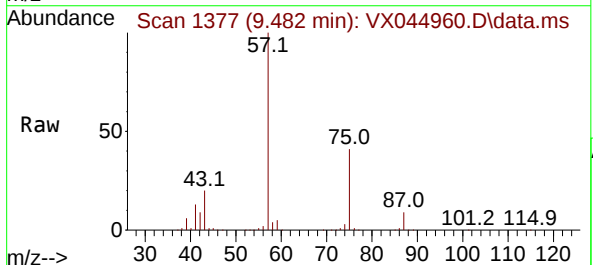
Instrument :  
 MSVOA\_X  
 ClientSampleId :

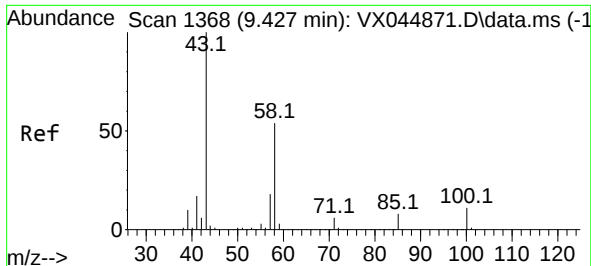
Tgt Ion: 75 Resp: 32781  
 Ion Ratio Lower Upper  
 75 100  
 77 0.6 25.3 37.9#  
 39 33.5 40.0 60.0#



#57  
 1,3-Dichloropropane  
 Concen: 2.299 ug/l  
 RT: 9.482 min Scan# 1377  
 Delta R.T. 0.177 min  
 Lab File: VX044960.D  
 Acq: 14 Feb 2025 14:43

Tgt Ion: 76 Resp: 4585  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 25.8 38.8#

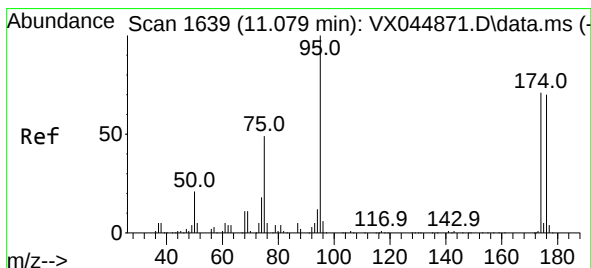
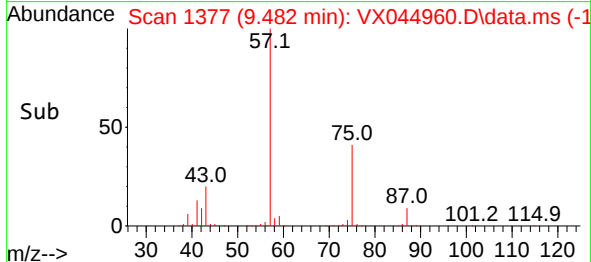
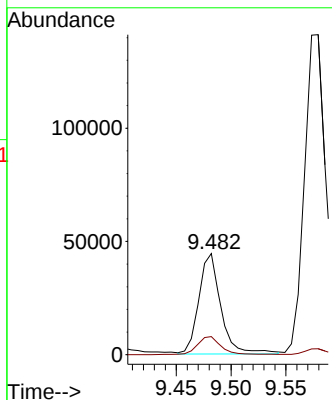
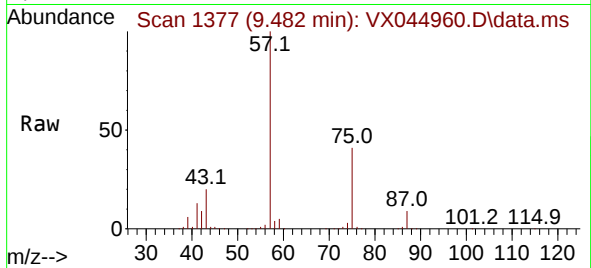




#59  
2-Hexanone  
Concen: 49.414 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.055 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

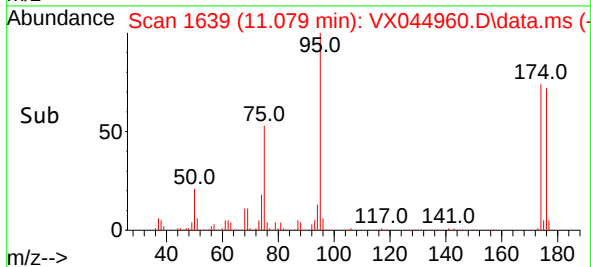
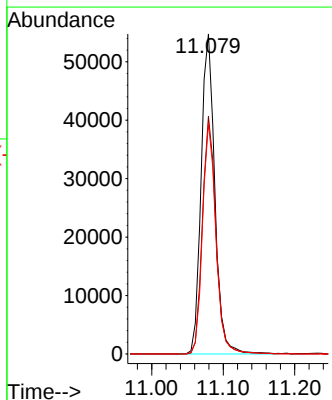
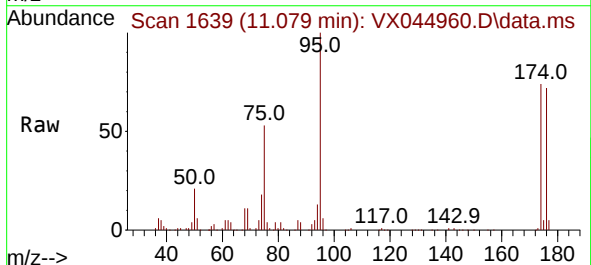
Instrument :  
MSVOA\_X  
ClientSampleId :

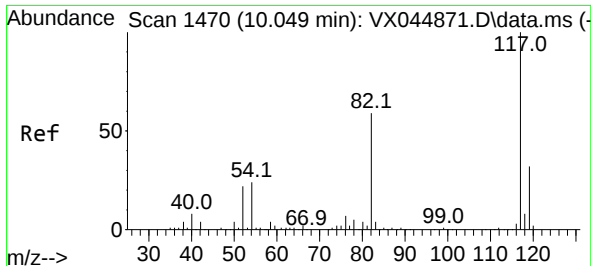
Tgt Ion: 43 Resp: 61975  
Ion Ratio Lower Upper  
43 100  
58 19.7 27.5 82.4#



#62  
4-Bromofluorobenzene  
Concen: 51.666 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

Tgt Ion: 95 Resp: 72775  
Ion Ratio Lower Upper  
95 100  
174 73.7 0.0 142.6  
176 70.6 0.0 141.6

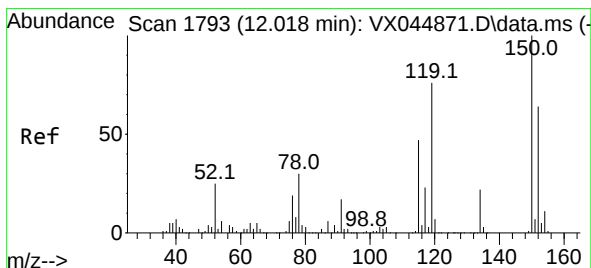
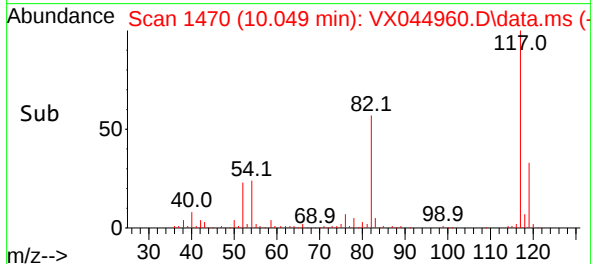
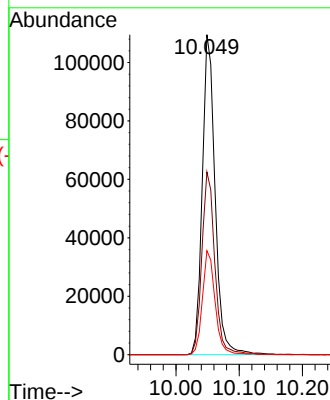
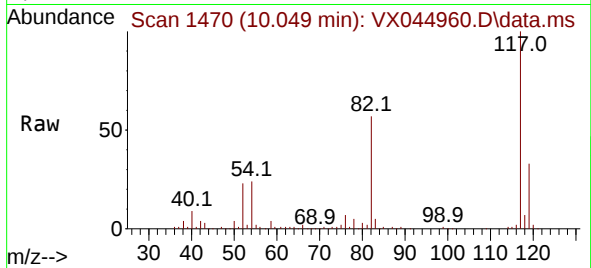




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. 0.000 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

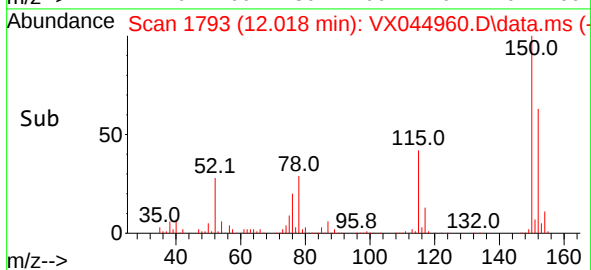
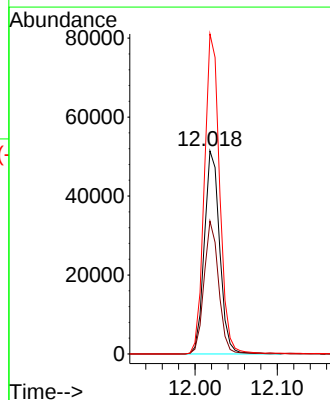
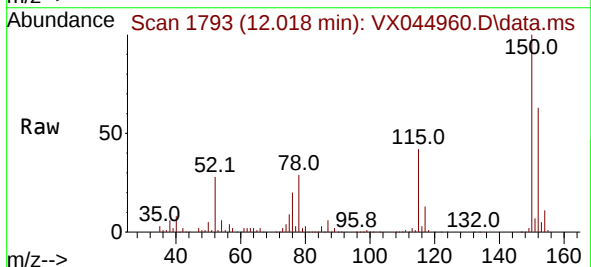
Instrument :  
MSVOA\_X  
ClientSampleId :

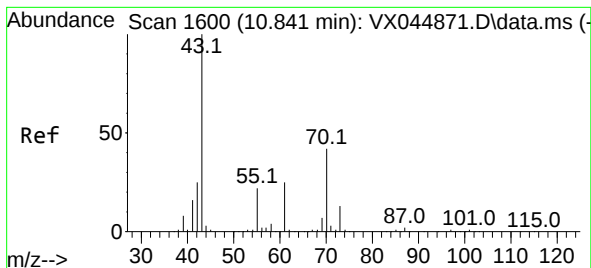
Tgt Ion:117 Resp: 154821  
Ion Ratio Lower Upper  
117 100  
82 57.1 47.5 71.3  
119 32.5 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. 0.000 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

Tgt Ion:152 Resp: 66540  
Ion Ratio Lower Upper  
152 100  
115 62.3 43.4 130.1  
150 157.5 0.0 350.4





#74

N-amy1 acetate

Concen: 0.244 ug/l

RT: 10.781 min Scan# 1639

Delta R.T. -0.061 min

Lab File: VX044960.D

Acq: 14 Feb 2025 14:43

Instrument :

MSVOA\_X

ClientSampleId :

Tgt Ion: 43 Resp: 591

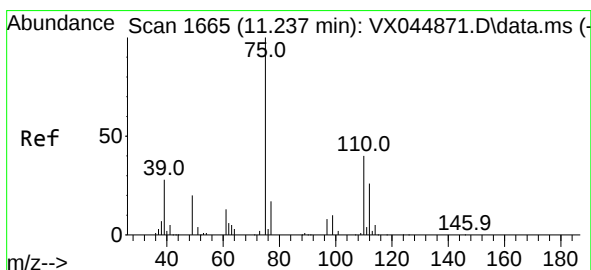
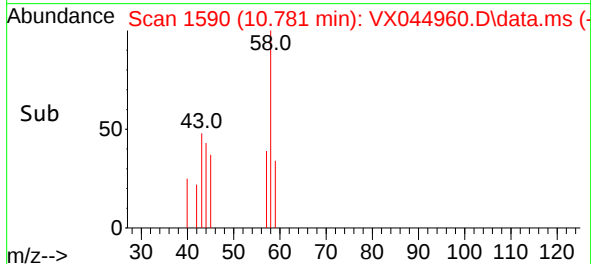
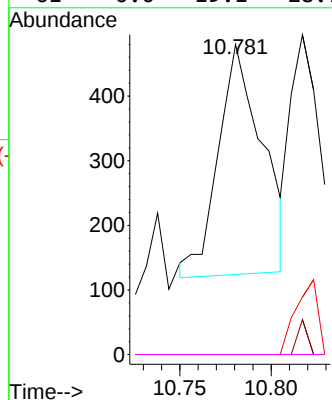
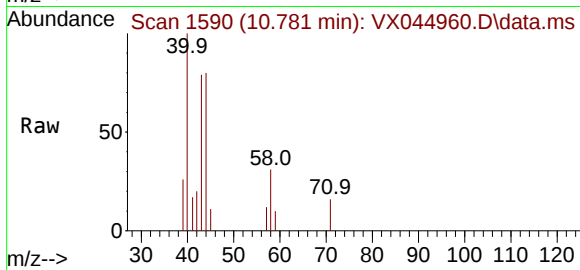
Ion Ratio Lower Upper

43 100

70 0.0 33.7 50.5#

55 0.0 18.6 27.8#

61 0.0 19.1 28.7#



#76

1,2,3-Trichloropropane

Concen: 26.083 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX044960.D

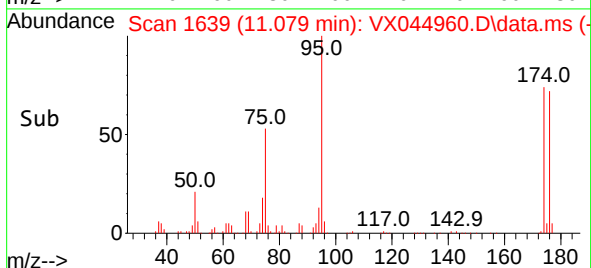
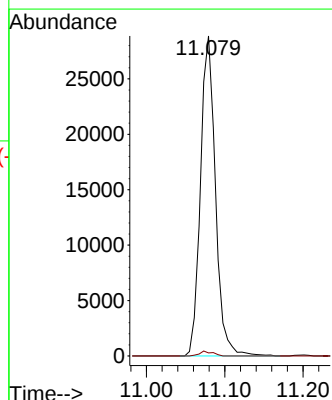
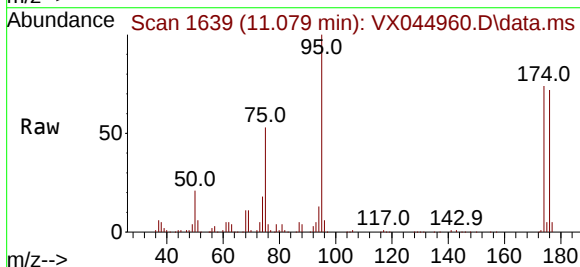
Acq: 14 Feb 2025 14:43

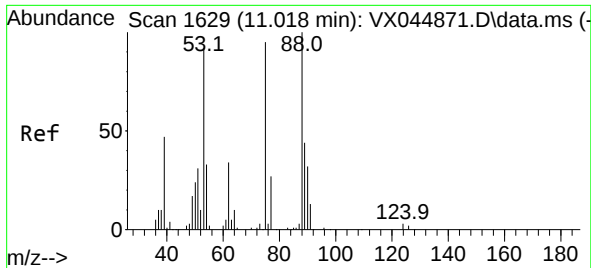
Tgt Ion: 75 Resp: 38480

Ion Ratio Lower Upper

75 100

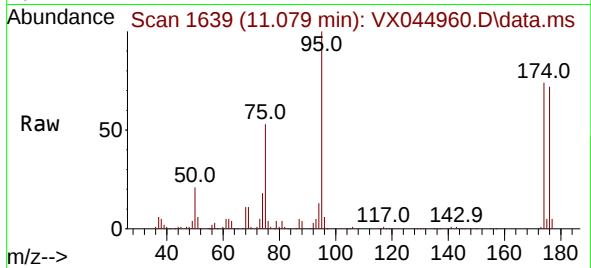
77 1.3 21.9 65.7#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 67.095 ug/l  
RT: 11.079 min Scan# 10  
Delta R.T. 0.061 min  
Lab File: VX044960.D  
Acq: 14 Feb 2025 14:43

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 75 Resp: 38480  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 36.6 54.8#

