

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX021425\  
 Data File : VX044962.D  
 Acq On : 14 Feb 2025 15:29  
 Operator : JC/MD  
 Sample : Q1356-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Feb 14 22:15:29 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

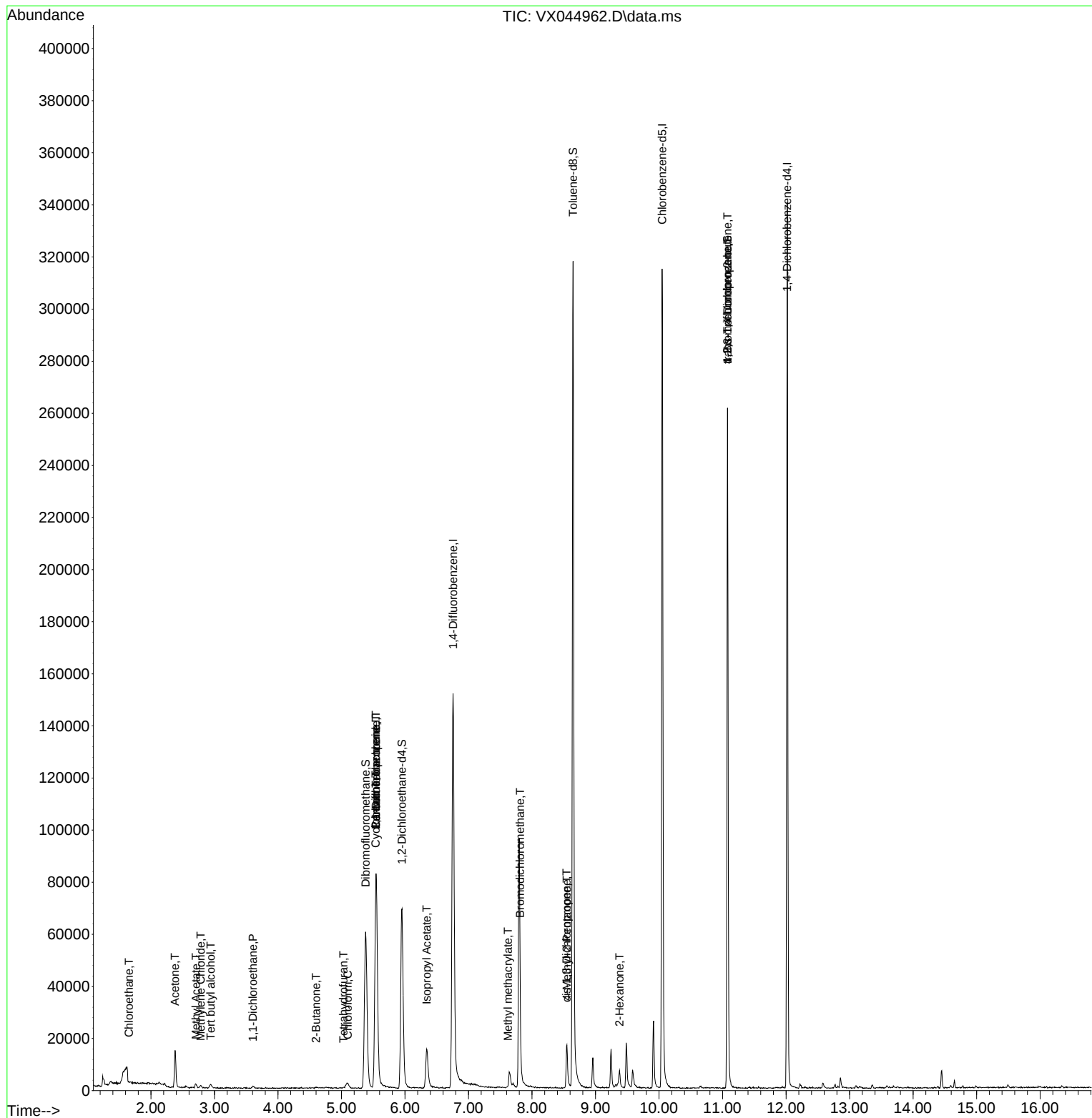
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.544  | 168   | 78767    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 161354   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.049 | 117   | 147582   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 65157    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 64334    | 55.797   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 111.600% |
| 35) Dibromofluoromethane      | 5.379  | 113   | 52974    | 50.496   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 101.000% |
| 50) Toluene-d8                | 8.647  | 98    | 199003   | 50.165   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 100.340% |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 69016    | 51.607   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 103.220% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 6) Chloroethane               | 1.654  | 64    | 76       | 1.462    | ug/l # | 42       |
| 11) Tert butyl alcohol        | 2.941  | 59    | 880      | 4.114    | ug/l # | 73       |
| 16) Acetone                   | 2.380  | 43    | 14951    | 32.255   | ug/l   | 96       |
| 18) Methyl Acetate            | 2.709  | 43    | 2102     | 1.437    | ug/l   | 91       |
| 20) Methylene Chloride        | 2.782  | 84    | 470      | 0.414    | ug/l # | 87       |
| 24) 1,1-Dichloroethane        | 3.605  | 63    | 1253     | 0.645    | ug/l # | 83       |
| 25) 2-Butanone                | 4.599  | 43    | 319      | 0.424    | ug/l # | 48       |
| 29) Tetrahydrofuran           | 5.032  | 42    | 220      | 0.440    | ug/l # | 33       |
| 30) Chloroform                | 5.099  | 83    | 2631     | 1.397    | ug/l   | 95       |
| 31) Cyclohexane               | 5.538  | 56    | 1927     | 1.076    | ug/l # | 4        |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 7035     | 4.648    | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 8573     | 5.780    | ug/l # | 15       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 22497    | 8.275    | ug/l   | 98       |
| 47) Bromodichloromethane      | 7.812  | 83    | 339      | 0.215    | ug/l # | 83       |
| 48) Methyl methacrylate       | 7.623  | 41    | 959      | 0.748    | ug/l # | 25       |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 7253     | 4.389    | ug/l # | 45       |
| 54) cis-1,3-Dichloropropene   | 8.543  | 75    | 2916     | 1.637    | ug/l # | 61       |
| 59) 2-Hexanone                | 9.378  | 43    | 5550     | 4.661    | ug/l # | 24       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 36281    | 25.114   | ug/l # | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 36281    | 64.604   | ug/l # | 11       |
| -----                         |        |       |          |          |        |          |

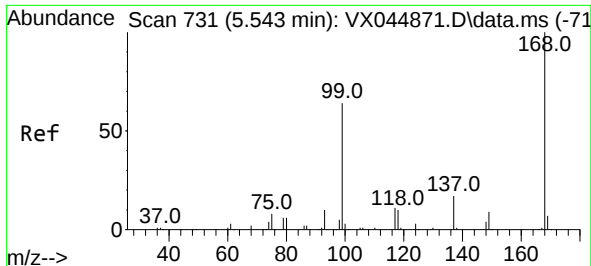
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX021425\  
Data File : VX044962.D  
Acq On : 14 Feb 2025 15:29  
Operator : JC/MD  
Sample : Q1356-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

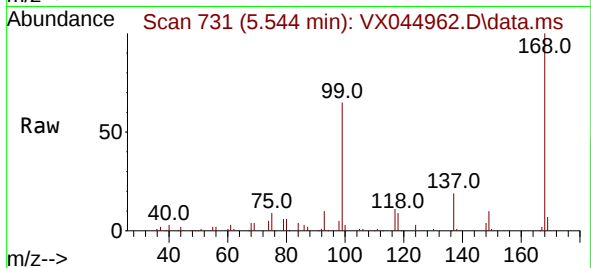
Quant Time: Feb 14 22:15:29 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X021025W.M  
Quant Title : SW846 8260  
QLast Update : Tue Feb 11 03:41:08 2025  
Response via : Initial Calibration



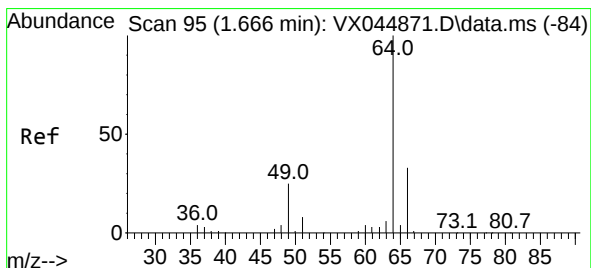
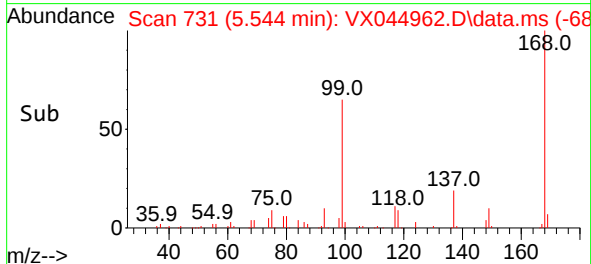
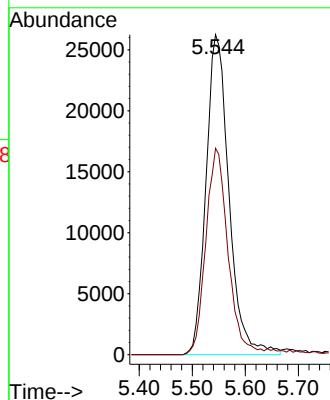


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. 0.001 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

Instrument :  
MSVOA\_X  
ClientSampleId :

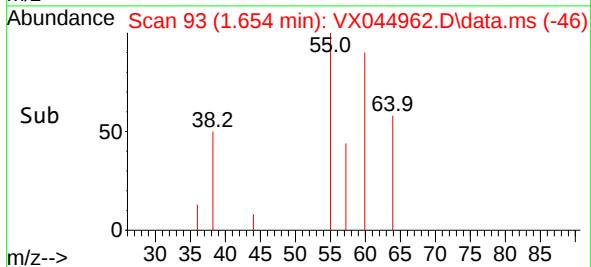
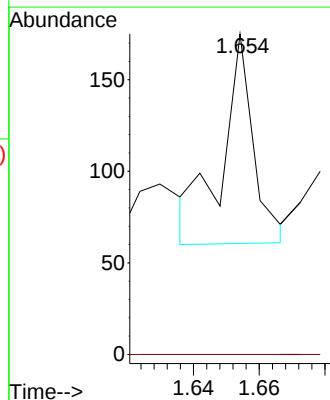
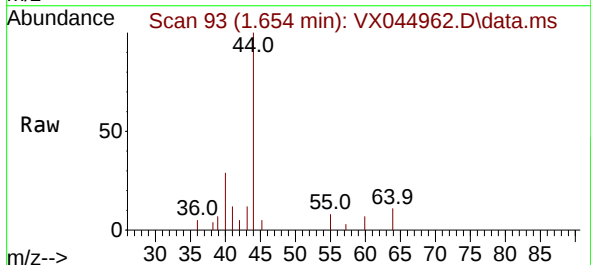


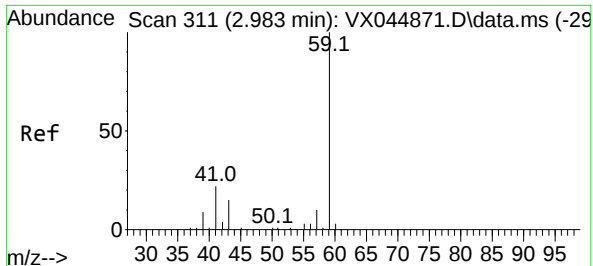
Tgt Ion:168 Resp: 78767  
Ion Ratio Lower Upper  
168 100  
99 64.5 51.2 76.8



#6  
Chloroethane  
Concen: 1.462 ug/l  
RT: 1.654 min Scan# 93  
Delta R.T. -0.012 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

Tgt Ion: 64 Resp: 76  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.9 38.9#

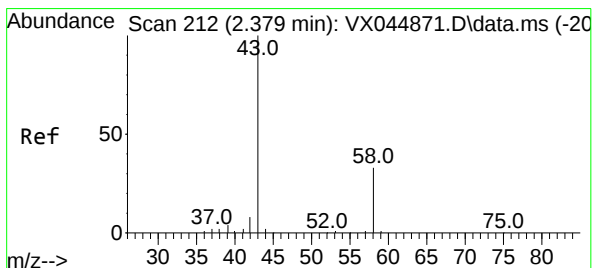
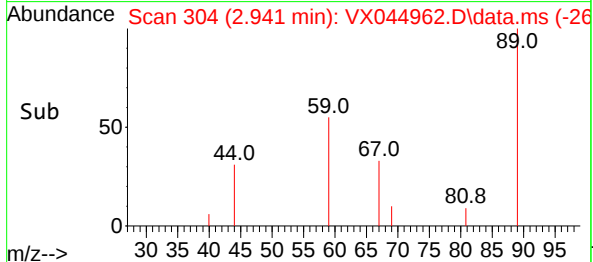
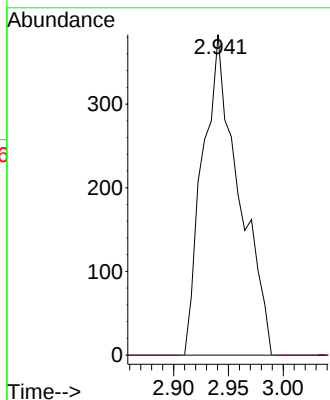
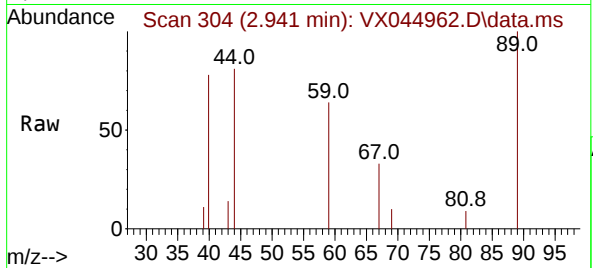




#11  
Tert butyl alcohol  
Concen: 4.114 ug/l  
RT: 2.941 min Scan# 304  
Delta R.T. -0.042 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

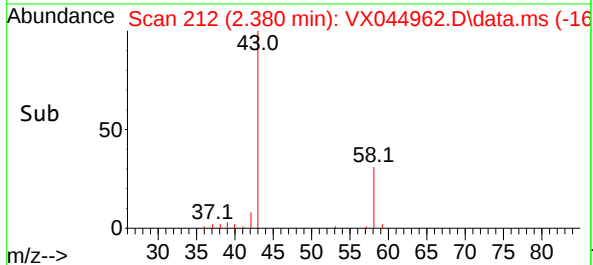
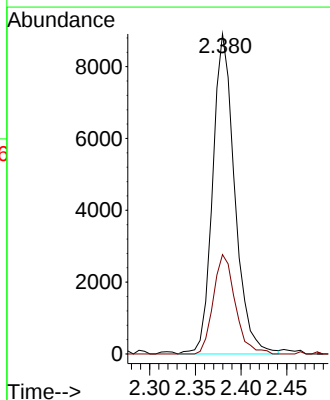
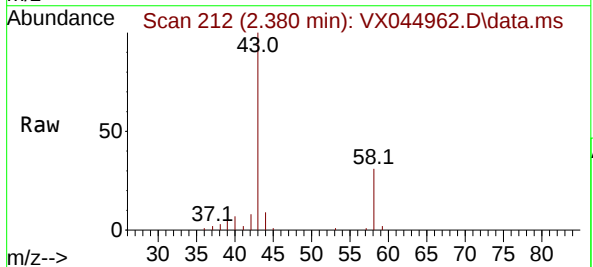
Instrument :  
MSVOA\_X  
ClientSampleId :

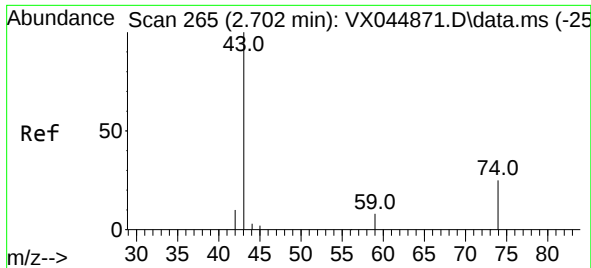
Tgt Ion: 59 Resp: 880  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.1 12.1#



#16  
Acetone  
Concen: 32.255 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.000 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

Tgt Ion: 43 Resp: 14951  
Ion Ratio Lower Upper  
43 100  
58 31.1 26.5 39.7

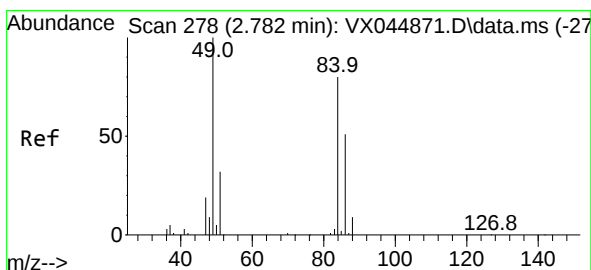
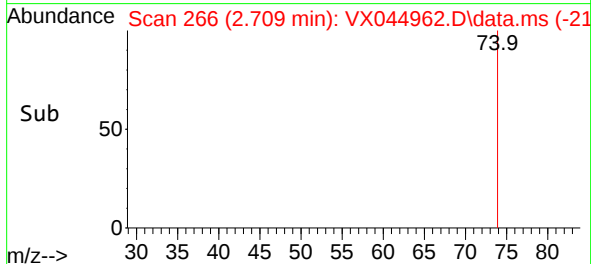
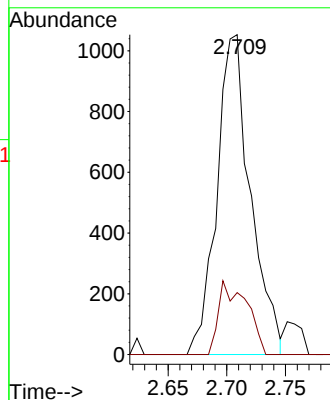
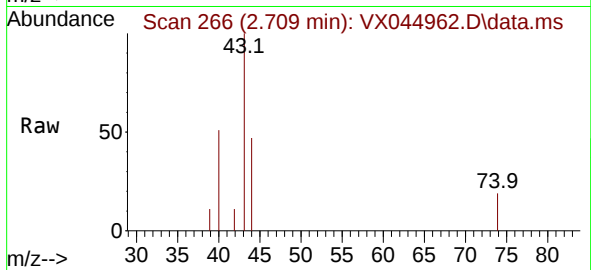




#18  
Methyl Acetate  
Concen: 1.437 ug/l  
RT: 2.709 min Scan# 2102  
Delta R.T. 0.006 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

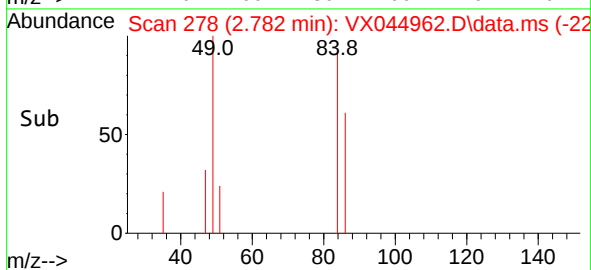
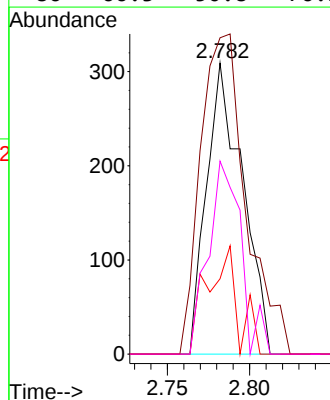
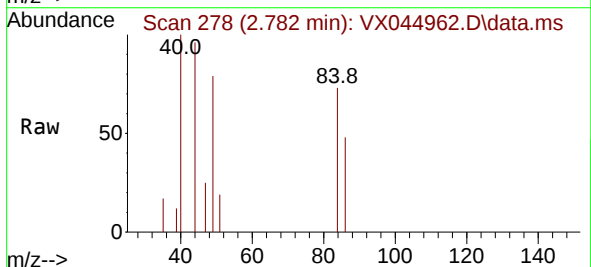
Instrument :  
MSVOA\_X  
ClientSampleId :

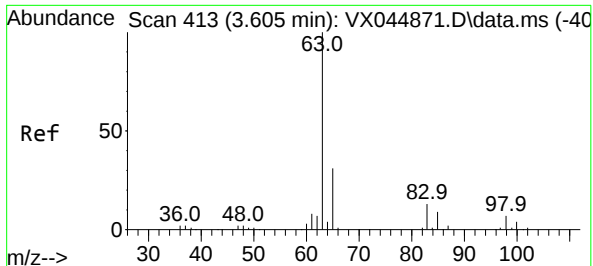
Tgt Ion: 43 Resp: 2102  
Ion Ratio Lower Upper  
43 100  
74 19.3 18.9 28.3



#20  
Methylene Chloride  
Concen: 0.414 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. 0.000 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

Tgt Ion: 84 Resp: 470  
Ion Ratio Lower Upper  
84 100  
49 108.7 100.1 150.1  
51 25.9 31.7 47.5#  
86 66.3 50.8 76.2

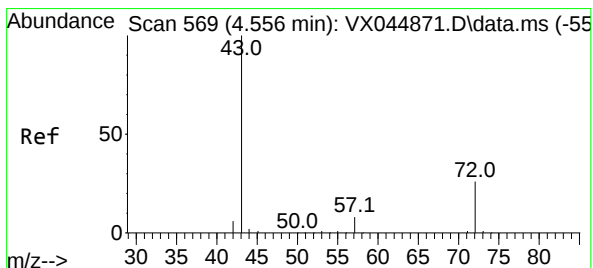
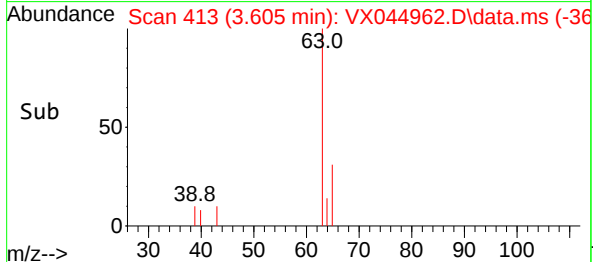
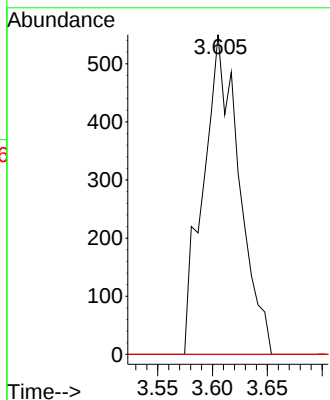
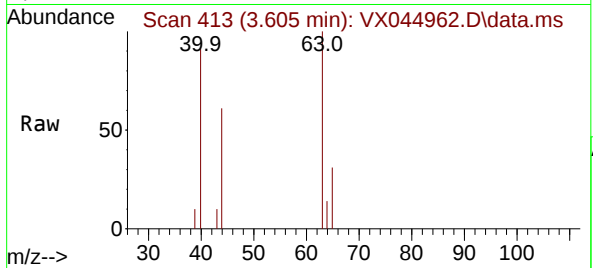




#24  
1,1-Dichloroethane  
Concen: 0.645 ug/l  
RT: 3.605 min Scan# 413  
Delta R.T. 0.000 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

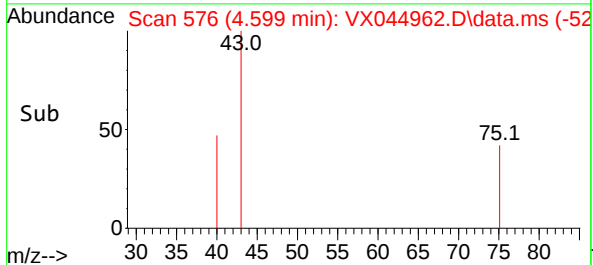
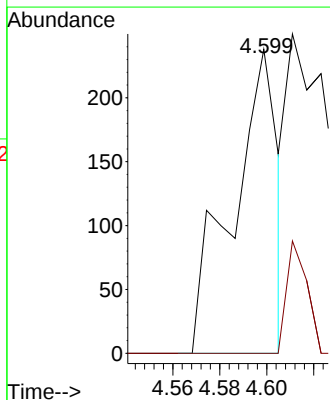
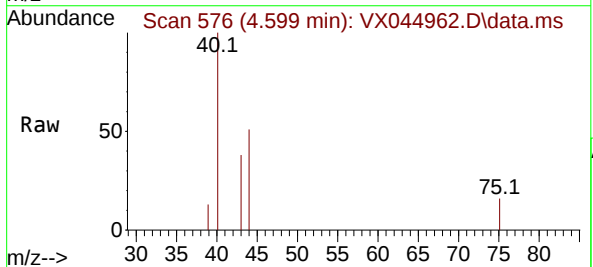
Instrument :  
MSVOA\_X  
ClientSampleId :

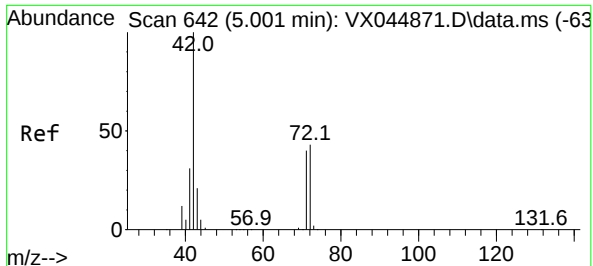
Tgt Ion: 63 Resp: 1253  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.3 9.9#  
100 0.0 2.1 6.5#



#25  
2-Butanone  
Concen: 0.424 ug/l  
RT: 4.599 min Scan# 576  
Delta R.T. 0.043 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

Tgt Ion: 43 Resp: 319  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.2 31.8#





#29

Tetrahydrofuran

Concen: 0.440 ug/l

RT: 5.032 min Scan# 64

Delta R.T. 0.031 min

Lab File: VX044962.D

Acq: 14 Feb 2025 15:29

Instrument :

MSVOA\_X

ClientSampleId :

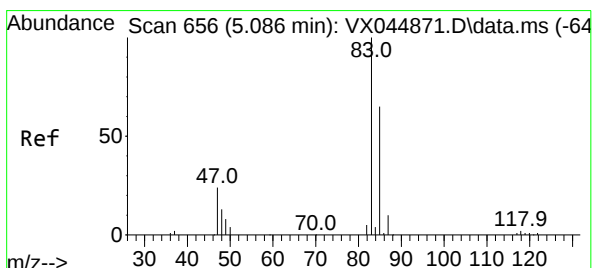
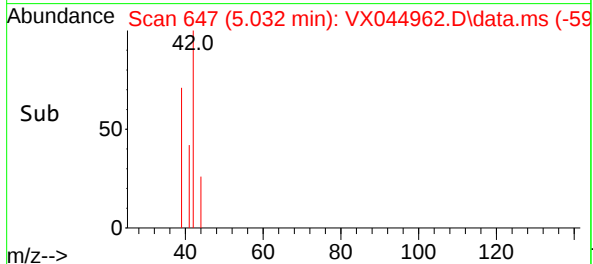
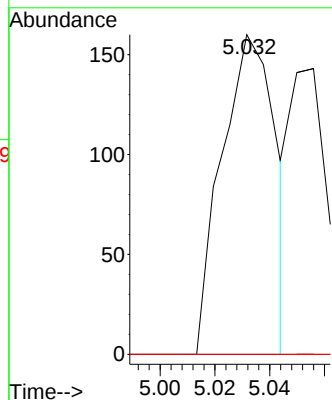
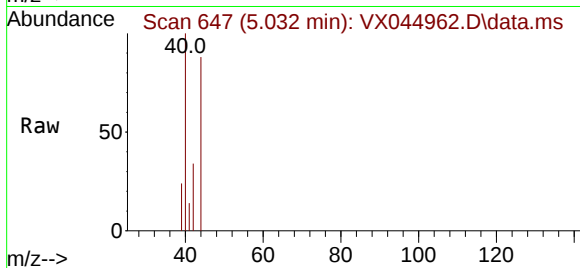
Tgt Ion: 42 Resp: 220

Ion Ratio Lower Upper

42 100

72 0.0 35.0 52.4#

71 0.0 32.6 48.8#



#30

Chloroform

Concen: 1.397 ug/l

RT: 5.099 min Scan# 658

Delta R.T. 0.013 min

Lab File: VX044962.D

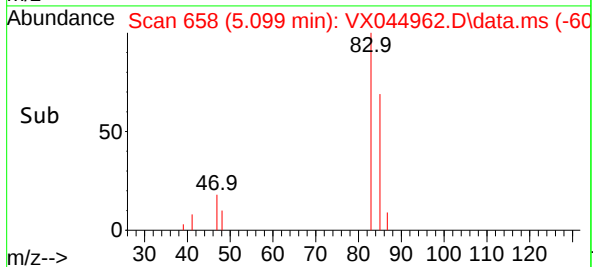
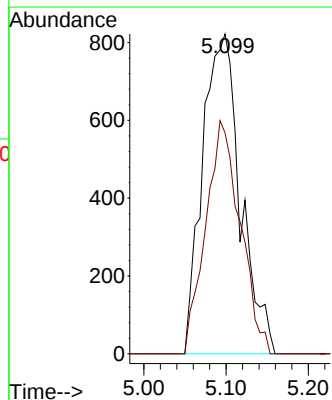
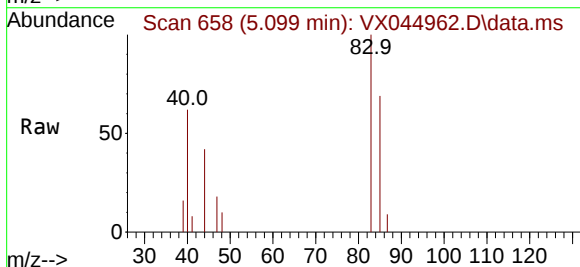
Acq: 14 Feb 2025 15:29

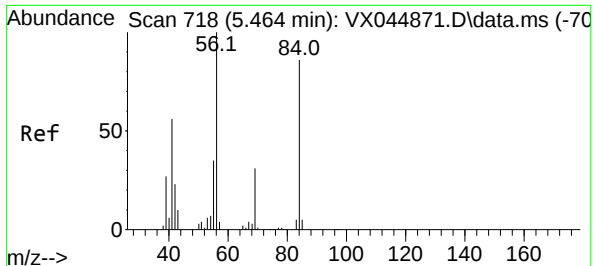
Tgt Ion: 83 Resp: 2631

Ion Ratio Lower Upper

83 100

85 69.1 52.1 78.1

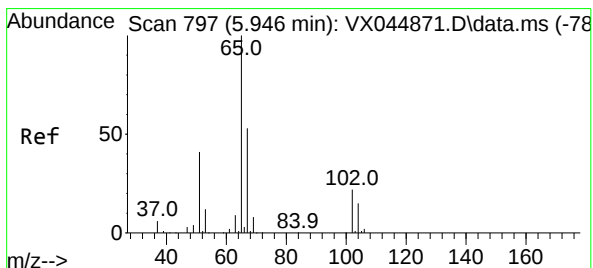
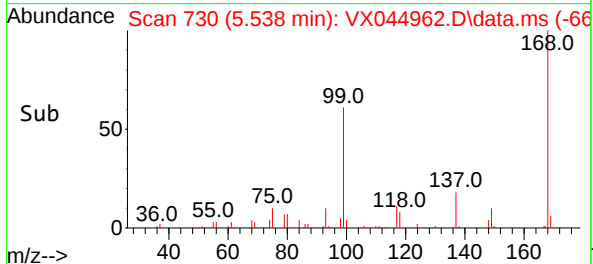
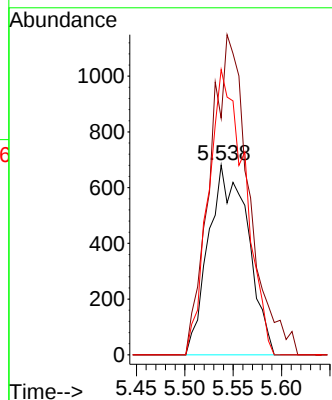
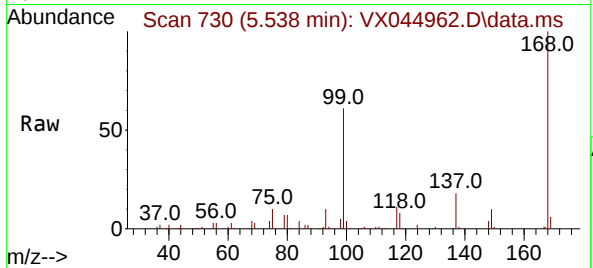




#31  
Cyclohexane  
Concen: 1.076 ug/l  
RT: 5.538 min Scan# 718  
Delta R.T. 0.073 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

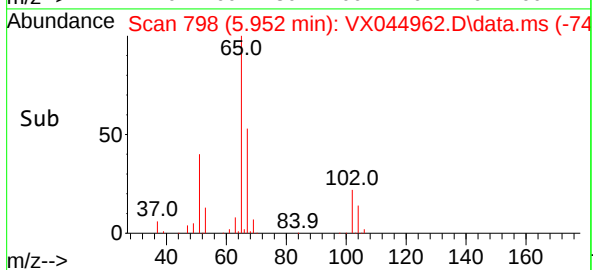
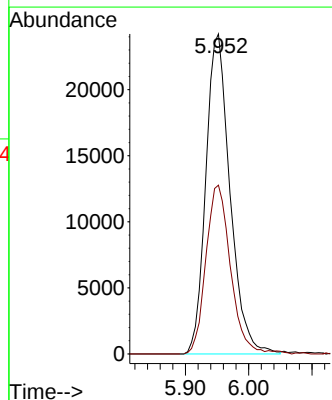
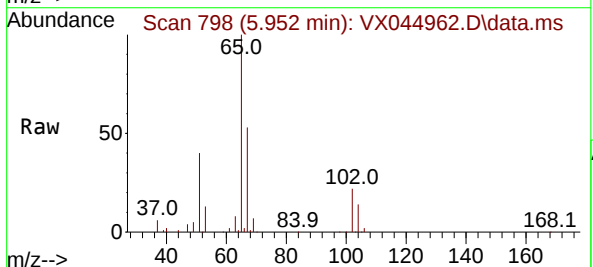
Instrument :  
MSVOA\_X  
ClientSampleId :

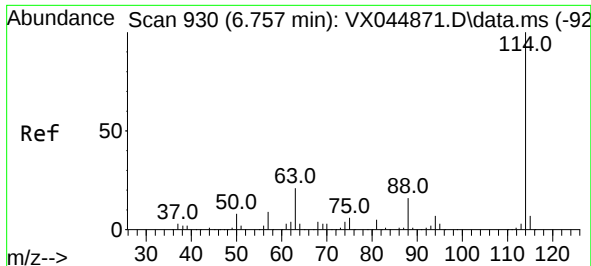
Tgt Ion: 56 Resp: 1927  
Ion Ratio Lower Upper  
56 100  
69 124.7 24.4 36.6#  
84 150.4 69.0 103.6#



#33  
1,2-Dichloroethane-d4  
Concen: 55.797 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.006 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

Tgt Ion: 65 Resp: 64334  
Ion Ratio Lower Upper  
65 100  
67 53.9 0.0 108.2

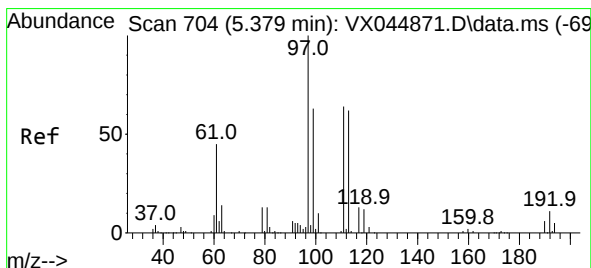
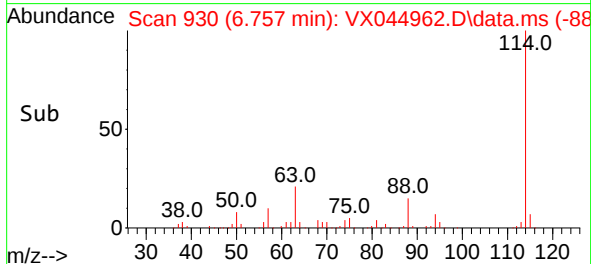
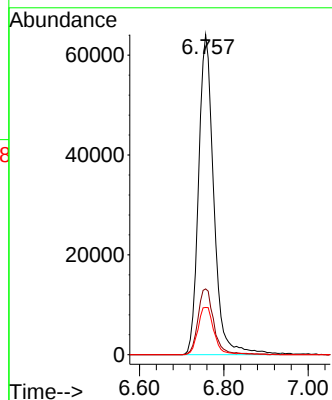
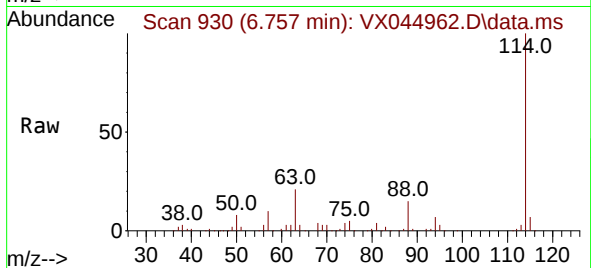




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 913  
Delta R.T. 0.000 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

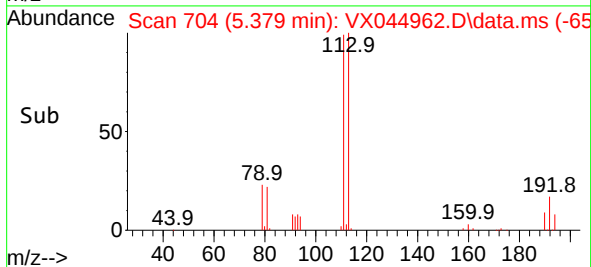
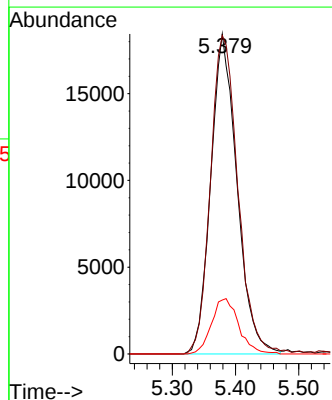
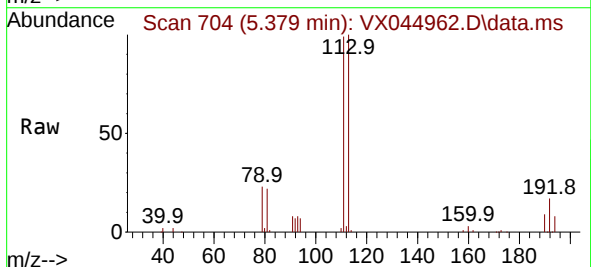
Instrument :  
MSVOA\_X  
ClientSampleId :

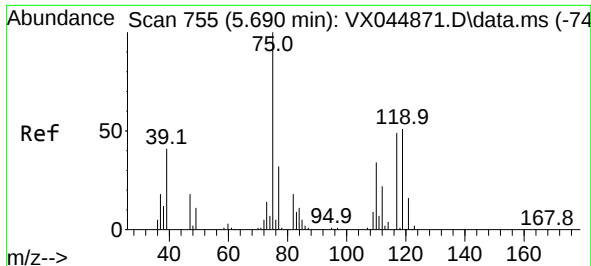
Tgt Ion:114 Resp: 161354  
Ion Ratio Lower Upper  
114 100  
63 20.6 0.0 42.4  
88 14.7 0.0 31.4



#35  
Dibromofluoromethane  
Concen: 50.496 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. 0.000 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

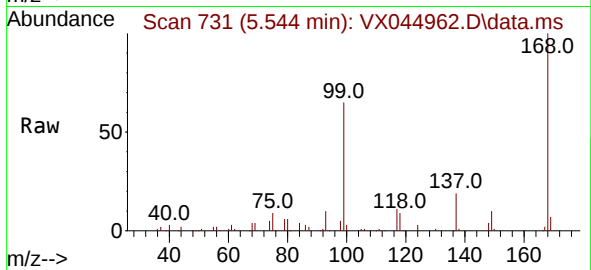
Tgt Ion:113 Resp: 52974  
Ion Ratio Lower Upper  
113 100  
111 103.9 83.5 125.3  
192 18.0 14.4 21.6



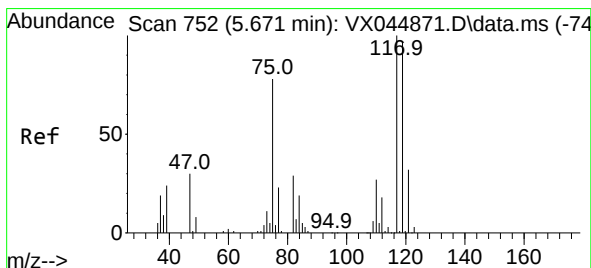
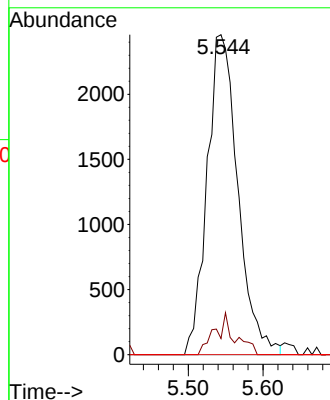
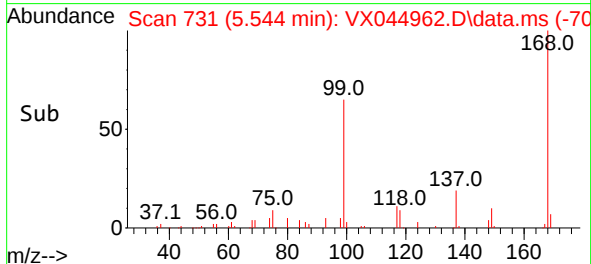


#36  
 1,1-Dichloropropene  
 Concen: 4.648 ug/l  
 RT: 5.544 min Scan# 711  
 Delta R.T. -0.146 min  
 Lab File: VX044962.D  
 Acq: 14 Feb 2025 15:29

Instrument :  
 MSVOA\_X  
 ClientSampleId :

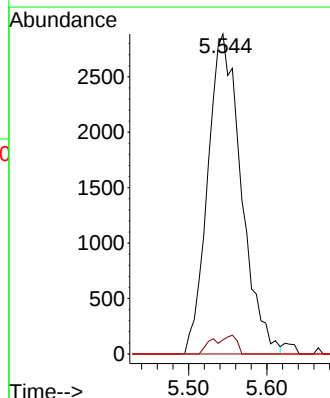
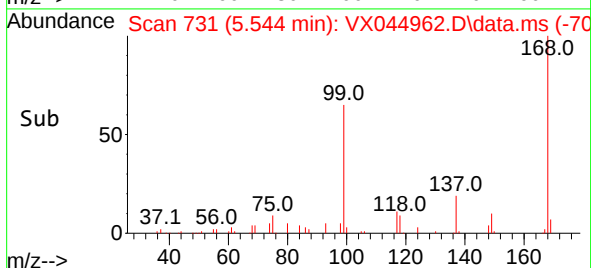
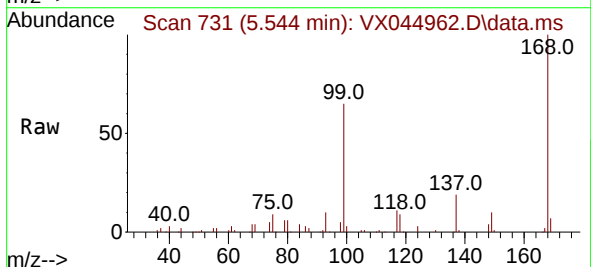


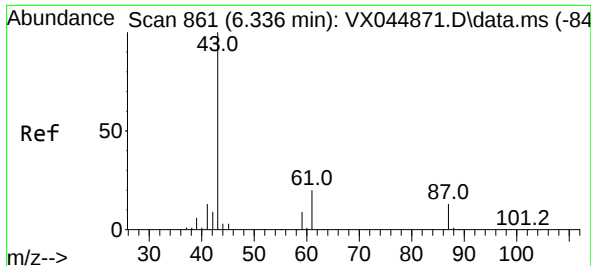
Tgt Ion: 75 Resp: 7035  
 Ion Ratio Lower Upper  
 75 100  
 110 6.4 17.2 51.6#  
 77 0.0 24.6 37.0#



#38  
 Carbon Tetrachloride  
 Concen: 5.780 ug/l  
 RT: 5.544 min Scan# 731  
 Delta R.T. -0.128 min  
 Lab File: VX044962.D  
 Acq: 14 Feb 2025 15:29

Tgt Ion: 117 Resp: 8573  
 Ion Ratio Lower Upper  
 117 100  
 119 4.4 77.5 116.3#  
 121 0.0 25.6 38.4#

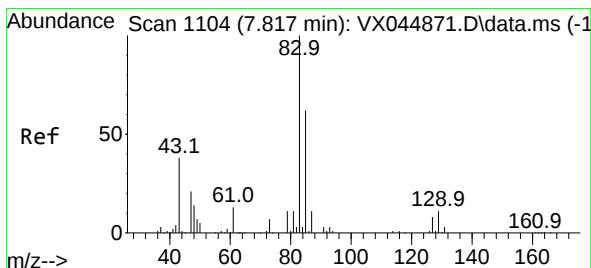
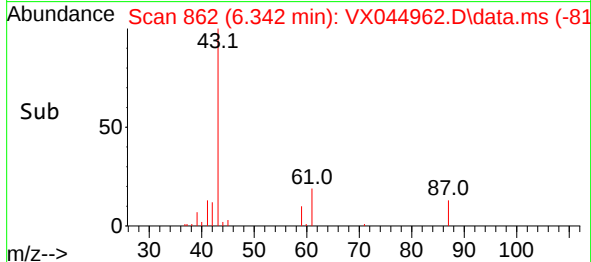
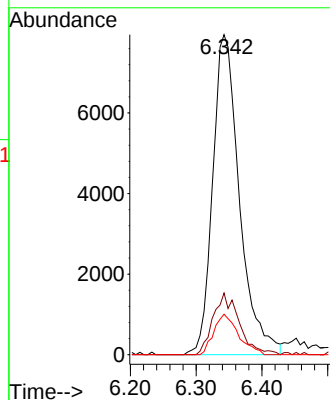
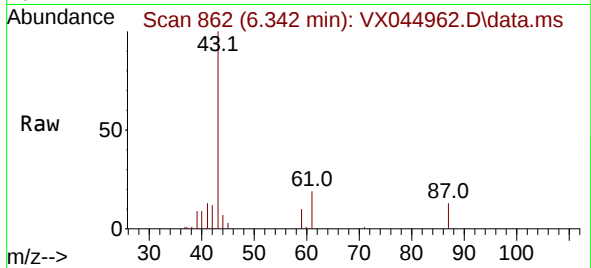




#43  
Isopropyl Acetate  
Concen: 8.275 ug/l  
RT: 6.342 min Scan# 861  
Delta R.T. 0.006 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

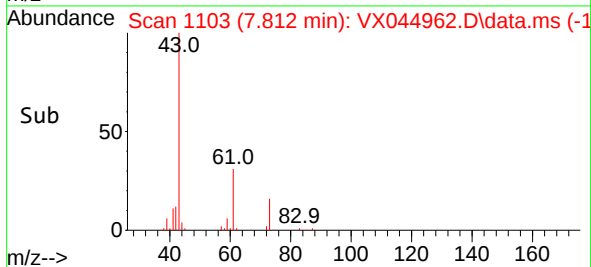
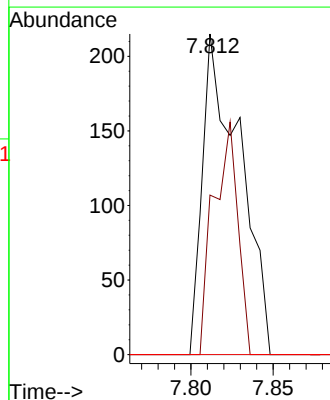
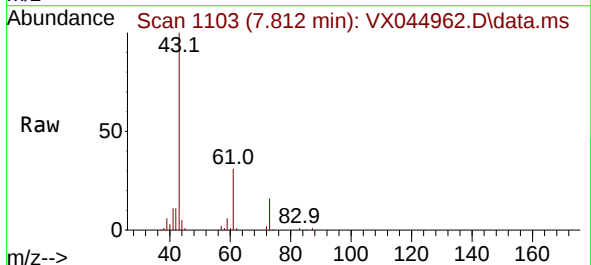
Instrument :  
MSVOA\_X  
ClientSampleId :

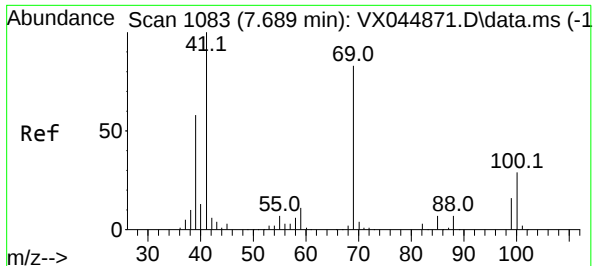
Tgt Ion: 43 Resp: 22497  
Ion Ratio Lower Upper  
43 100  
61 18.8 15.8 23.8  
87 11.6 10.0 15.0



#47  
Bromodichloromethane  
Concen: 0.215 ug/l  
RT: 7.812 min Scan# 1103  
Delta R.T. -0.006 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

Tgt Ion: 83 Resp: 339  
Ion Ratio Lower Upper  
83 100  
85 49.8 50.0 75.0#  
127 0.0 6.4 9.6#





#48

Methyl methacrylate

Concen: 0.748 ug/l

RT: 7.623 min Scan# 1083

Delta R.T. -0.067 min

Lab File: VX044962.D

Acq: 14 Feb 2025 15:29

Instrument :

MSVOA\_X

ClientSampleId :

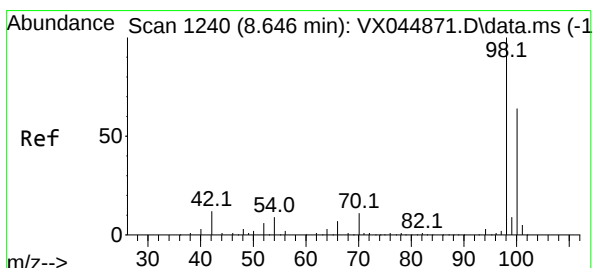
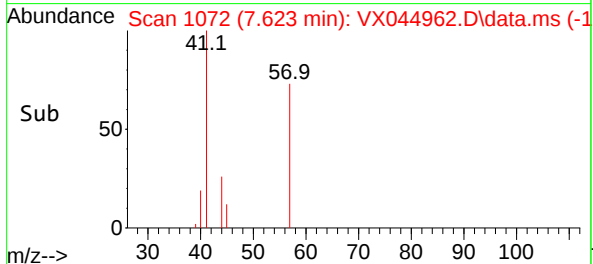
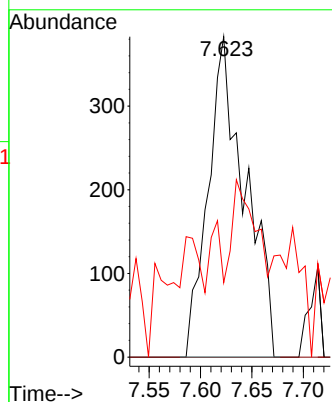
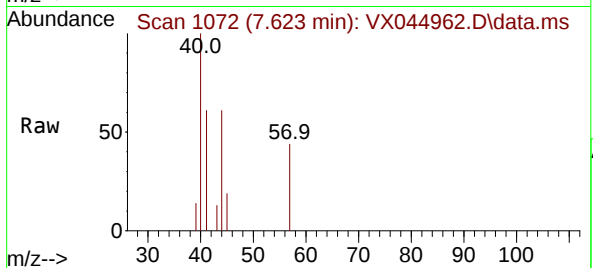
Tgt Ion: 41 Resp: 959

Ion Ratio Lower Upper

41 100

69 0.0 65.8 98.8#

39 19.6 46.4 69.6#



#50

Toluene-d8

Concen: 50.165 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044962.D

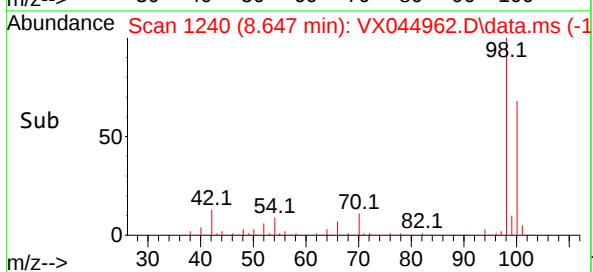
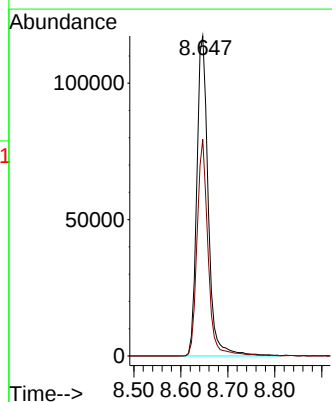
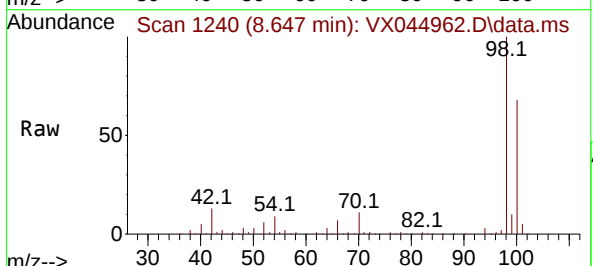
Acq: 14 Feb 2025 15:29

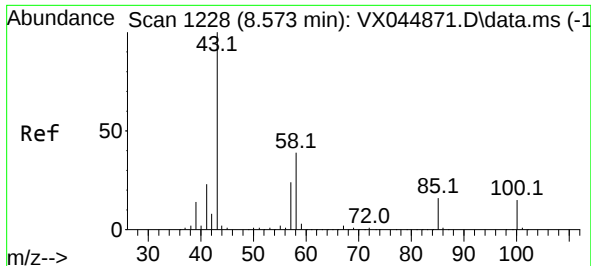
Tgt Ion: 98 Resp: 199003

Ion Ratio Lower Upper

98 100

100 65.1 52.7 79.1

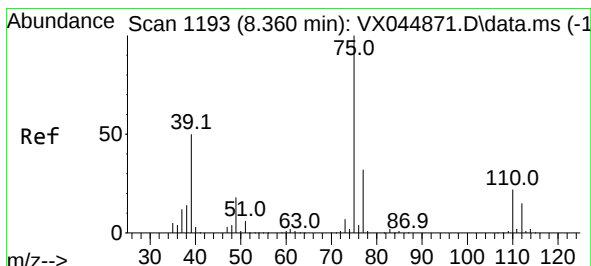
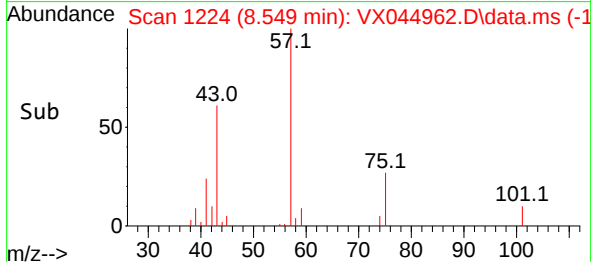
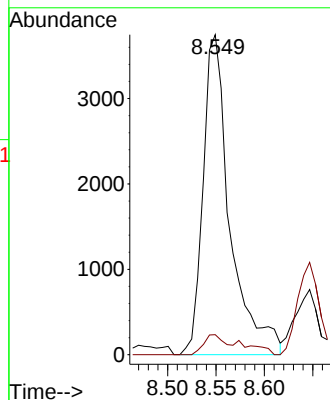
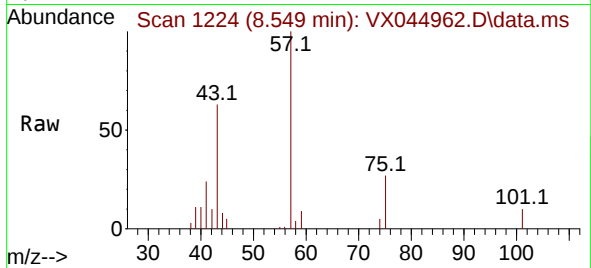




#51  
4-Methyl-2-Pentanone  
Concen: 4.389 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

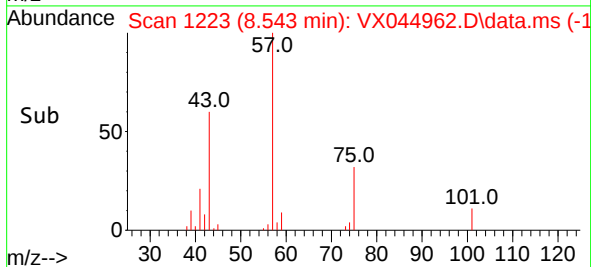
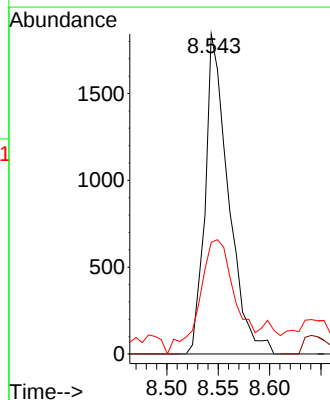
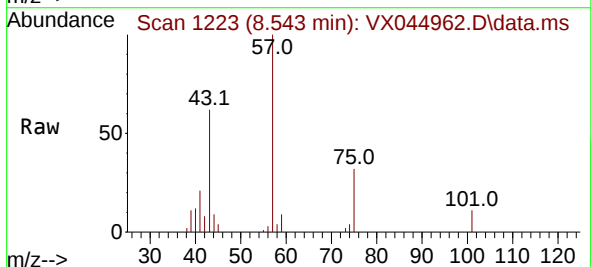
Instrument :  
MSVOA\_X  
ClientSampleId :

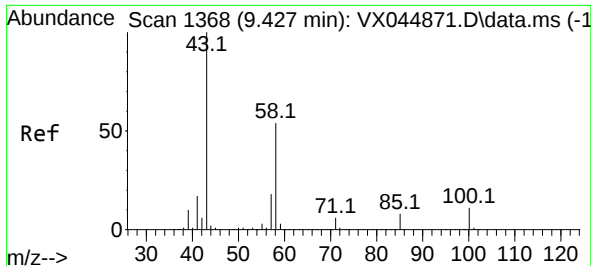
Tgt Ion: 43 Resp: 7253  
Ion Ratio Lower Upper  
43 100  
58 5.2 30.8 46.2#



#54  
cis-1,3-Dichloropropene  
Concen: 1.637 ug/l  
RT: 8.543 min Scan# 1223  
Delta R.T. 0.183 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

Tgt Ion: 75 Resp: 2916  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.3 37.9#  
39 31.0 40.0 60.0#





#59

2-Hexanone

Concen: 4.661 ug/l

RT: 9.378 min Scan# 11

Delta R.T. -0.048 min

Lab File: VX044962.D

Acq: 14 Feb 2025 15:29

Instrument :

MSVOA\_X

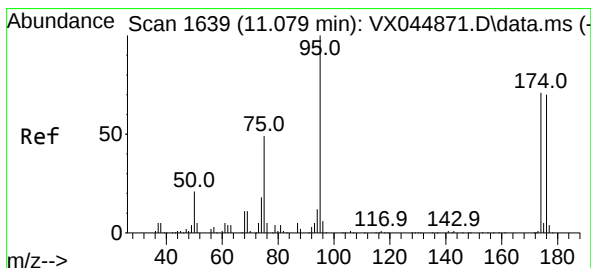
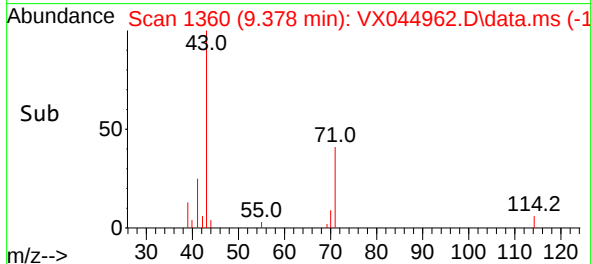
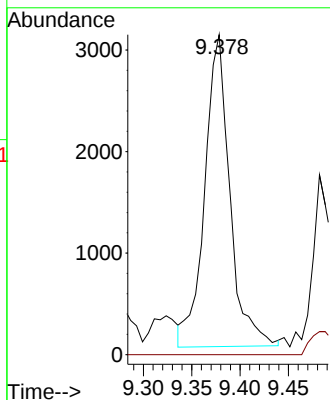
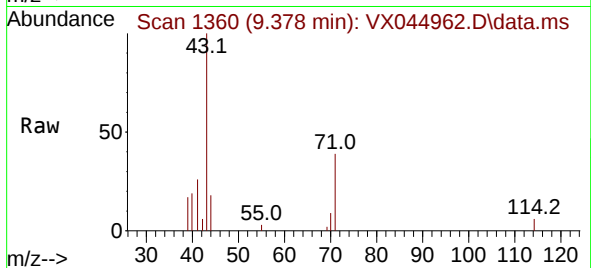
ClientSampleId :

Tgt Ion: 43 Resp: 5550

Ion Ratio Lower Upper

43 100

58 0.0 27.5 82.4#



#62

4-Bromofluorobenzene

Concen: 51.607 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044962.D

Acq: 14 Feb 2025 15:29

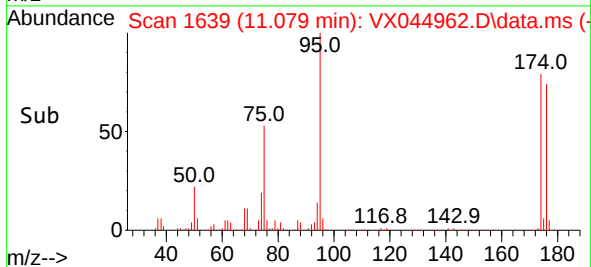
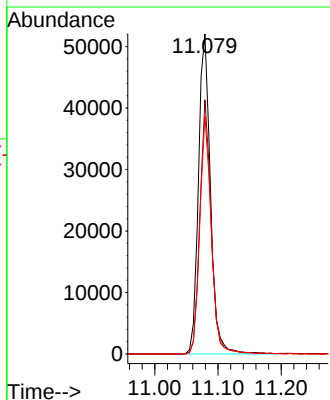
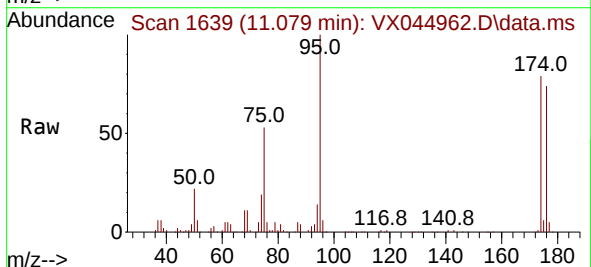
Tgt Ion: 95 Resp: 69016

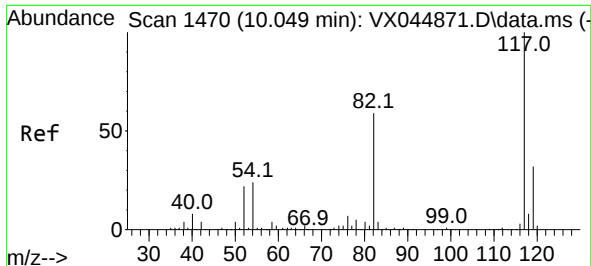
Ion Ratio Lower Upper

95 100

174 74.8 0.0 142.6

176 71.5 0.0 141.6

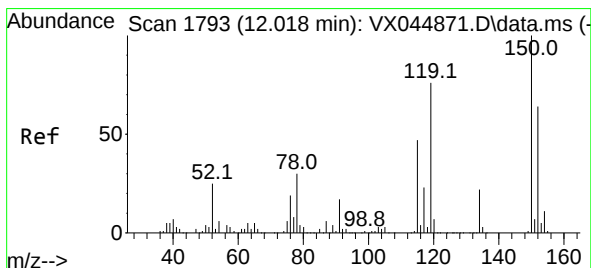
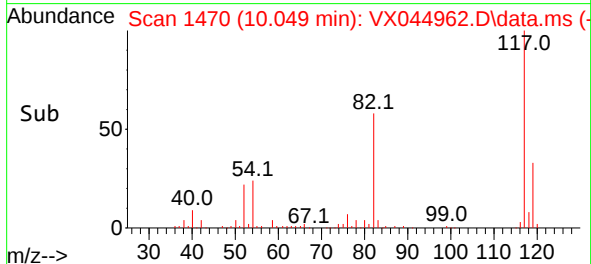
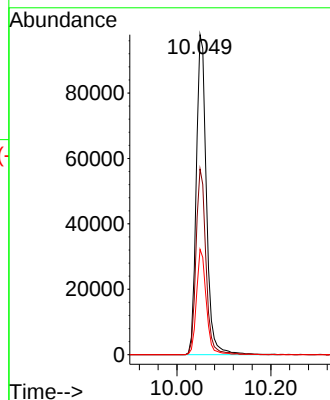
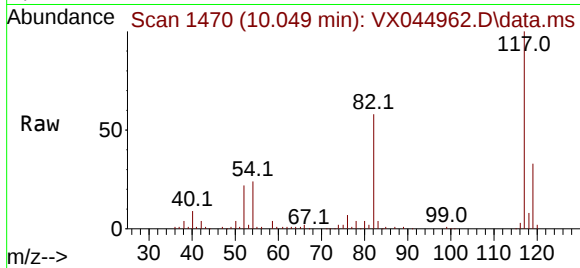




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. 0.000 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

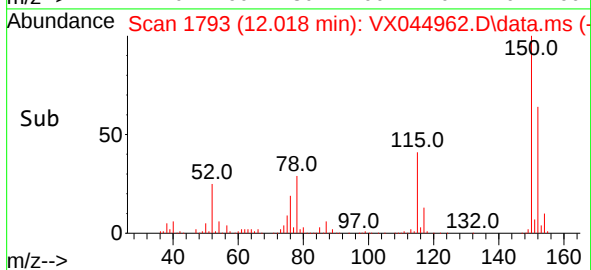
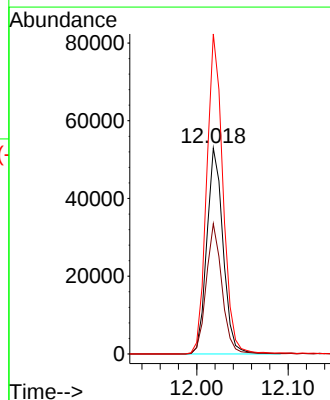
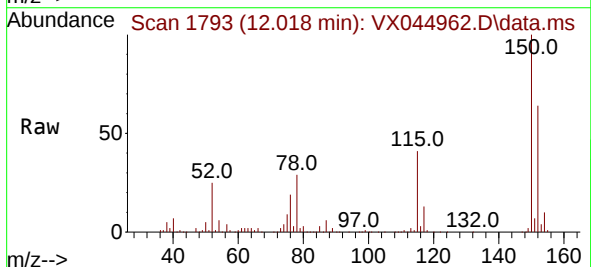
Instrument :  
MSVOA\_X  
ClientSampleId :

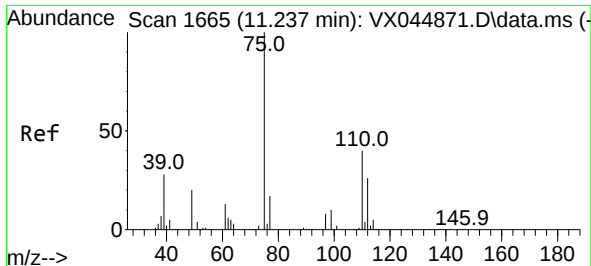
Tgt Ion:117 Resp: 147582  
Ion Ratio Lower Upper  
117 100  
82 58.1 47.5 71.3  
119 32.9 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. 0.000 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

Tgt Ion:152 Resp: 65157  
Ion Ratio Lower Upper  
152 100  
115 61.5 43.4 130.1  
150 155.3 0.0 350.4

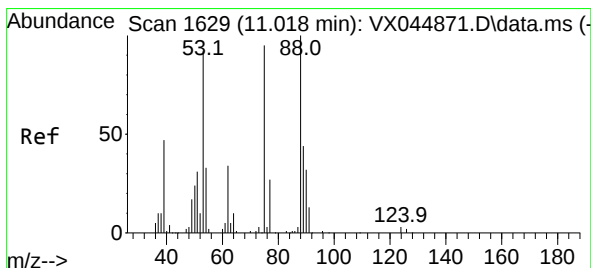
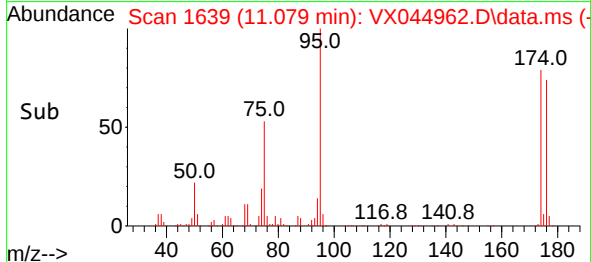
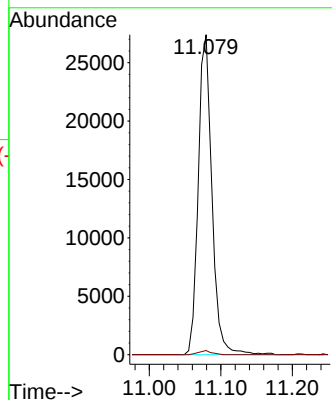
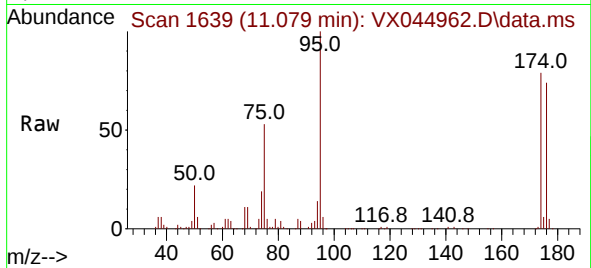




#76  
1,2,3-Trichloropropane  
Concen: 25.114 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 75 Resp: 36281  
Ion Ratio Lower Upper  
75 100  
77 1.2 21.9 65.7#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.604 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX044962.D  
Acq: 14 Feb 2025 15:29

Tgt Ion: 75 Resp: 36281  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 36.6 54.8#

