

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102124\  
 Data File : VX043460.D  
 Acq On : 21 Oct 2024 17:21  
 Operator : JC/MD  
 Sample : PB164196ZHE#02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 22 02:42:04 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100124W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 02 16:50:57 2024  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 82829               | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 159721              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 139638              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 61139               | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 72011               | 53.234 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 106.460% |        |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 54680               | 49.641 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 99.280%  |        |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 188643              | 49.419 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 98.840%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 68575               | 49.450 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 98.900%  |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        | Qvalue |          |
| 5) Bromomethane               | 1.593          | 94   | 174                 | 0.429  | ug/l # | 45       |
| 11) Tert butyl alcohol        | 2.953          | 59   | 3249                | 12.622 | ug/l # | 71       |
| 16) Acetone                   | 2.392          | 43   | 28086               | 49.718 | ug/l   | 98       |
| 18) Methyl Acetate            | 2.715          | 43   | 3664                | 2.585  | ug/l   | 95       |
| 20) Methylene Chloride        | 2.794          | 84   | 3052                | 2.930  | ug/l # | 84       |
| 23) Vinyl Acetate             | 3.690          | 43   | 70                  | 6.359  | ug/l # | 71       |
| 25) 2-Butanone                | 4.605          | 43   | 1362                | 1.758  | ug/l   | 91       |
| 31) Cyclohexane               | 5.550          | 56   | 2110                | 1.446  | ug/l # | 33       |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 7026                | 5.049  | ug/l # | 51       |
| 37) Ethyl Acetate             | 4.751          | 43   | 854                 | 0.511  | ug/l # | 76       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 9733                | 5.908  | ug/l # | 15       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 88163               | 31.941 | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.617          | 41   | 2706                | 1.998  | ug/l # | 13       |
| 49) 1,4-Dioxane               | 7.806          | 88   | 132                 | 5.014  | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 67403               | 40.207 | ug/l # | 51       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 29844               | 17.167 | ug/l # | 60       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 3772                | 2.107  | ug/l # | 43       |
| 59) 2-Hexanone                | 9.482          | 43   | 54009               | 42.604 | ug/l # | 52       |
| 74) N-amyl acetate            | 10.811         | 43   | 757                 | 0.335  | ug/l # | 49       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 37913               | 27.957 | ug/l # | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 37913               | 72.454 | ug/l # | 8        |

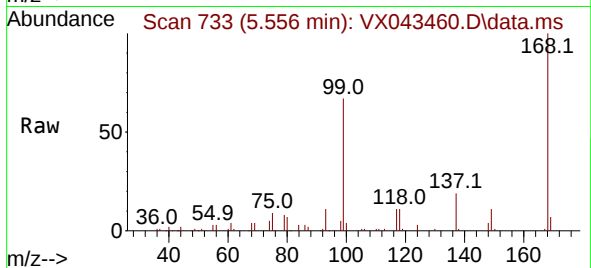
(#) = qualifier out of range (m) = manual integration (+) = signals summed



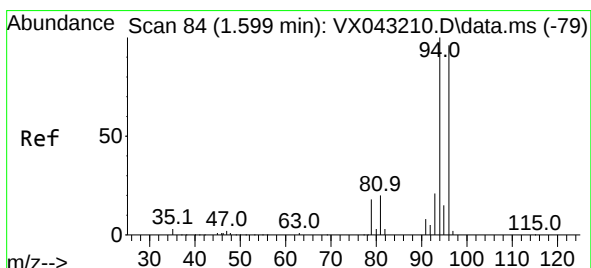
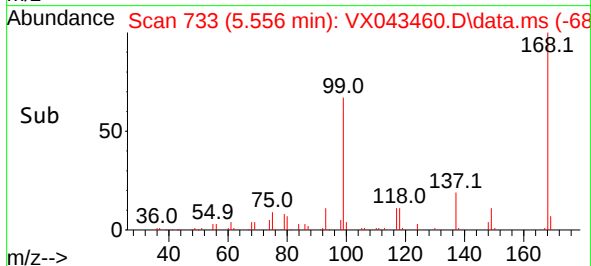
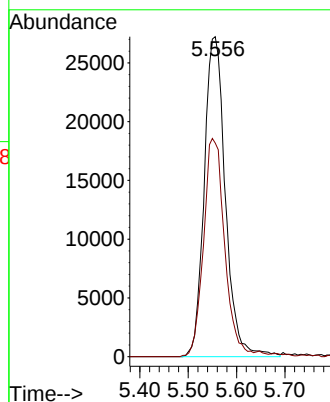


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Instrument :  
MSVOA\_X  
ClientSampleId :

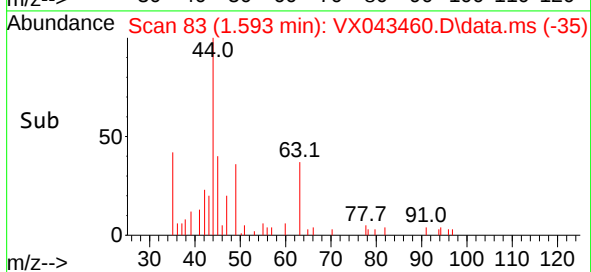
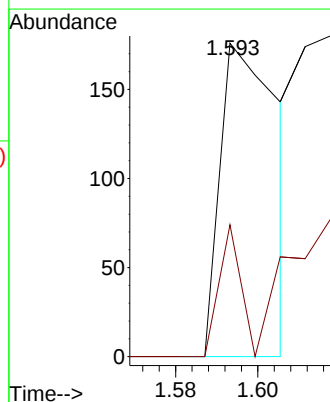
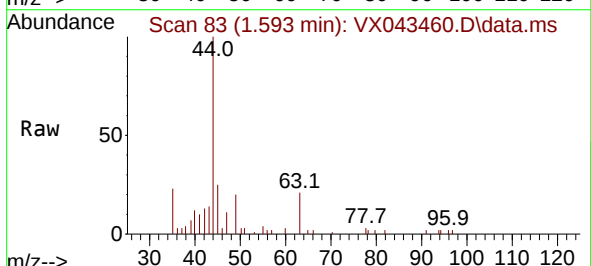


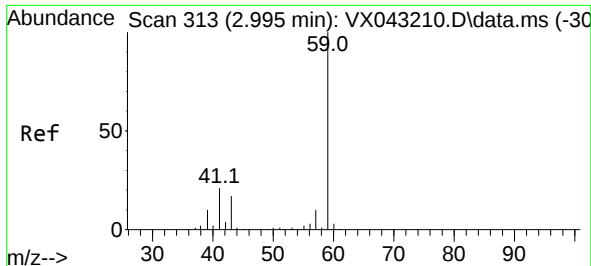
Tgt Ion:168 Resp: 82829  
Ion Ratio Lower Upper  
168 100  
99 66.7 49.7 74.5



#5  
Bromomethane  
Concen: 0.429 ug/l  
RT: 1.593 min Scan# 83  
Delta R.T. -0.006 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

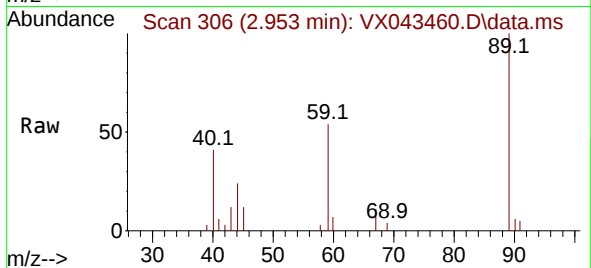
Tgt Ion: 94 Resp: 174  
Ion Ratio Lower Upper  
94 100  
96 42.0 76.6 115.0#



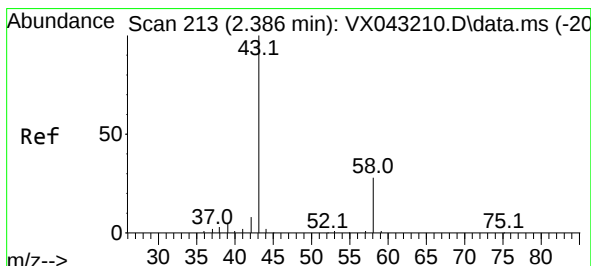
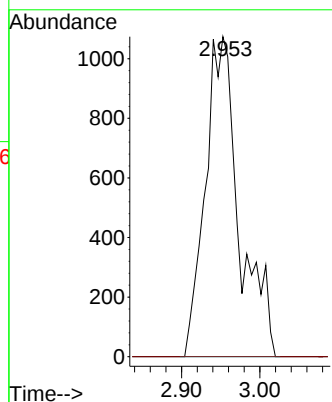
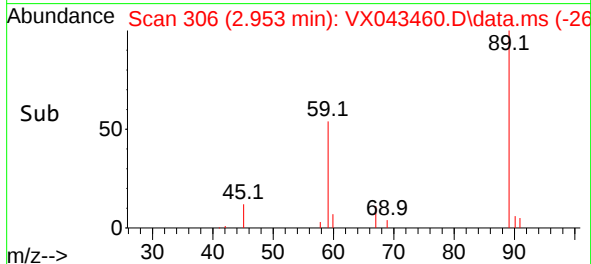


#11  
Tert butyl alcohol  
Concen: 12.622 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.043 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Instrument :  
MSVOA\_X  
ClientSampleId :

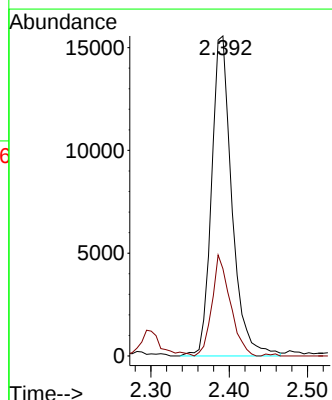
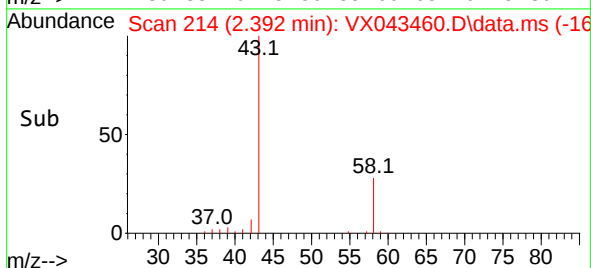
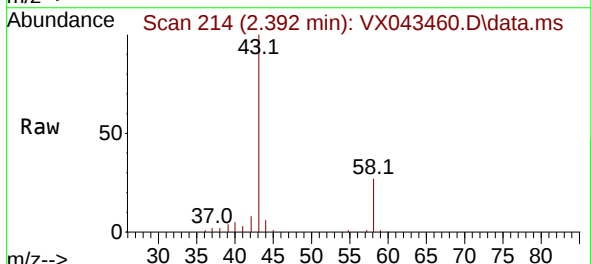


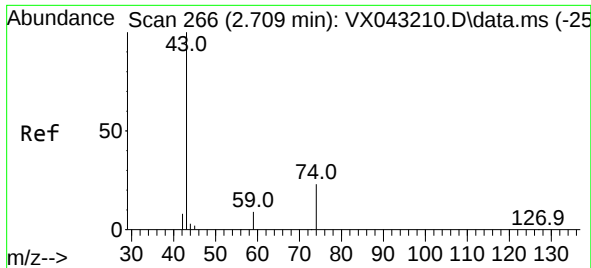
Tgt Ion: 59 Resp: 3249  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 13.0#



#16  
Acetone  
Concen: 49.718 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. 0.006 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Tgt Ion: 43 Resp: 28086  
Ion Ratio Lower Upper  
43 100  
58 27.2 22.6 33.8

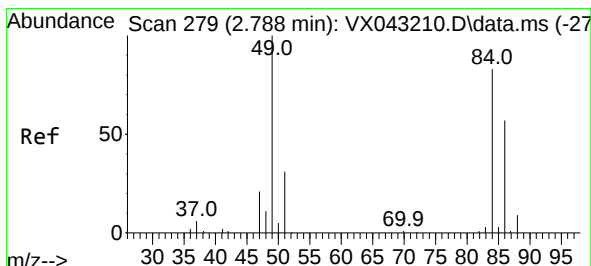
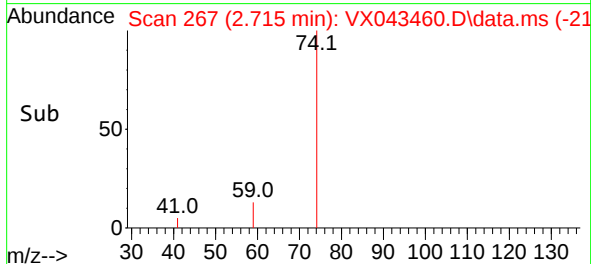
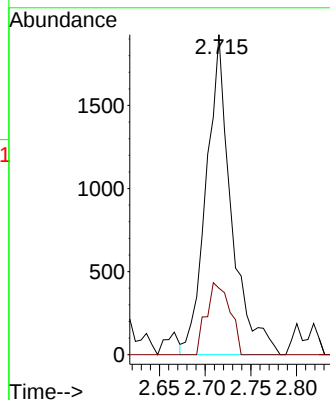
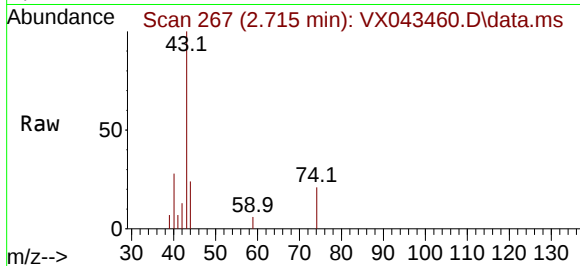




#18  
Methyl Acetate  
Concen: 2.585 ug/l  
RT: 2.715 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

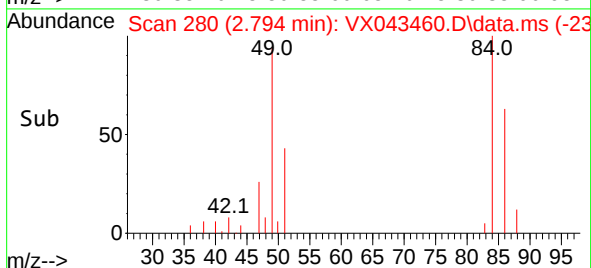
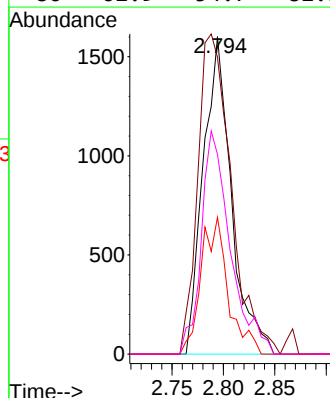
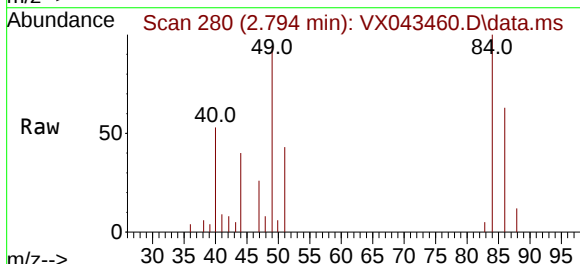
Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 43 Resp: 3664  
Ion Ratio Lower Upper  
43 100  
74 21.2 19.1 28.7



#20  
Methylene Chloride  
Concen: 2.930 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.006 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Tgt Ion: 84 Resp: 3052  
Ion Ratio Lower Upper  
84 100  
49 93.6 96.7 145.1#  
51 43.1 30.4 45.6  
86 62.9 54.7 82.1

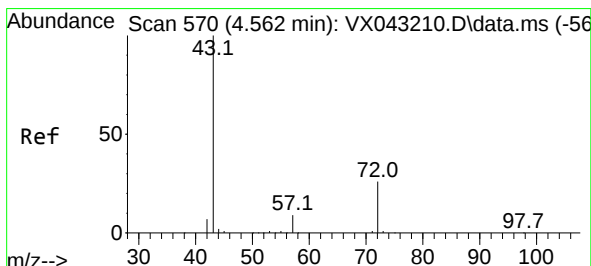
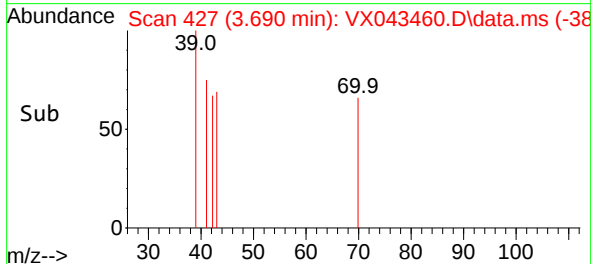
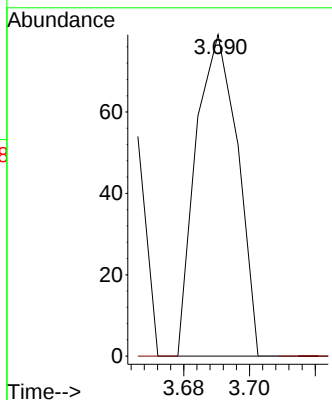
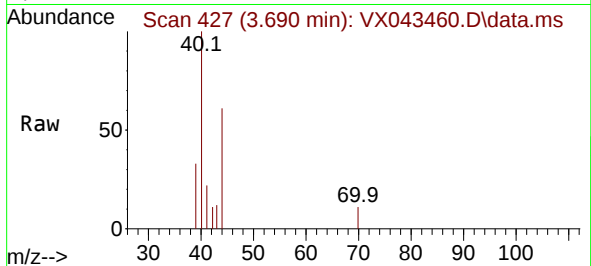




#23  
 Vinyl Acetate  
 Concen: 6.359 ug/l  
 RT: 3.690 min Scan# 41  
 Delta R.T. -0.031 min  
 Lab File: VX043460.D  
 Acq: 21 Oct 2024 17:21

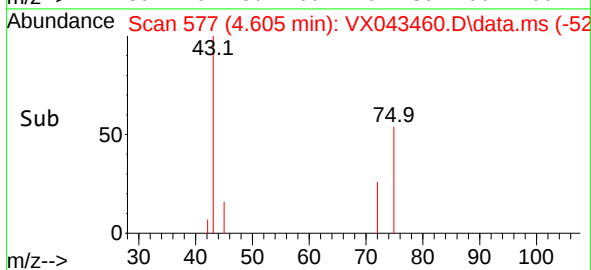
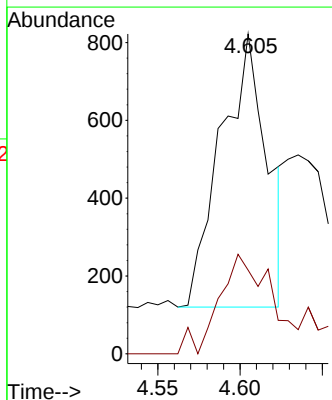
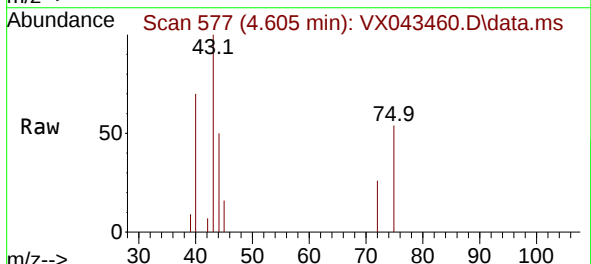
Instrument :  
 MSVOA\_X  
 ClientSampleId :

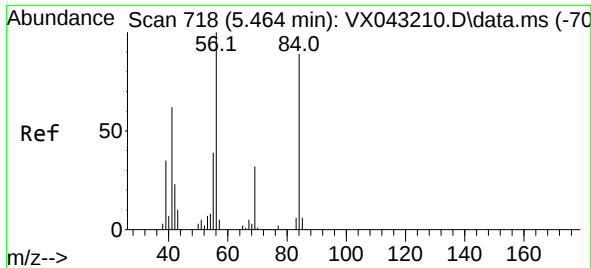
Tgt Ion: 43 Resp: 70  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 8.8 13.2#



#25  
 2-Butanone  
 Concen: 1.758 ug/l  
 RT: 4.605 min Scan# 577  
 Delta R.T. 0.043 min  
 Lab File: VX043460.D  
 Acq: 21 Oct 2024 17:21

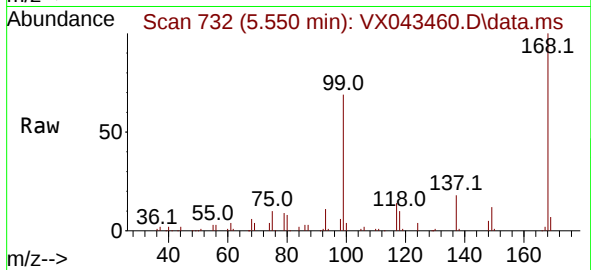
Tgt Ion: 43 Resp: 1362  
 Ion Ratio Lower Upper  
 43 100  
 72 30.6 20.6 31.0



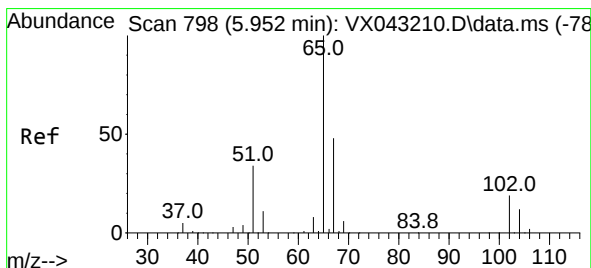
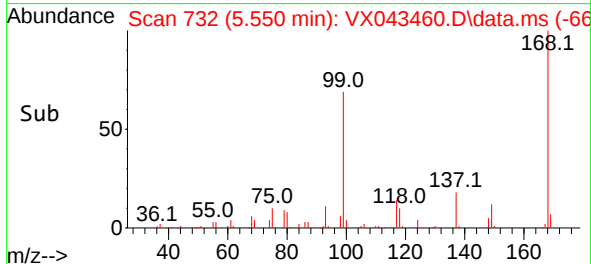
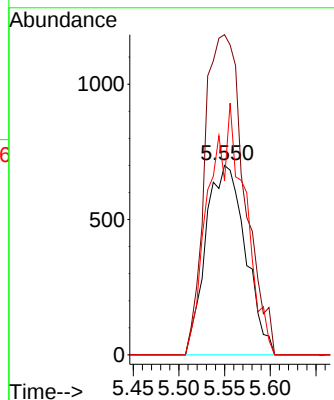


#31  
Cyclohexane  
Concen: 1.446 ug/l  
RT: 5.550 min Scan# 718  
Delta R.T. 0.085 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Instrument :  
MSVOA\_X  
ClientSampleId :

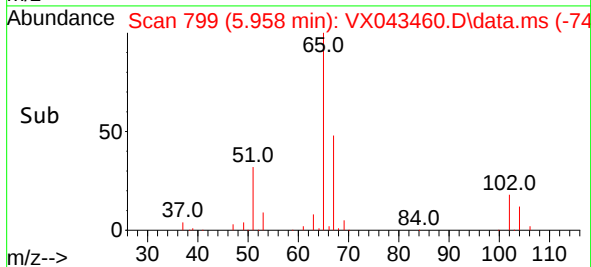
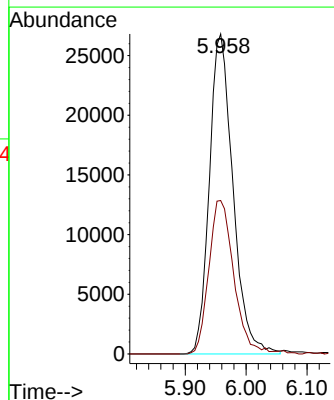
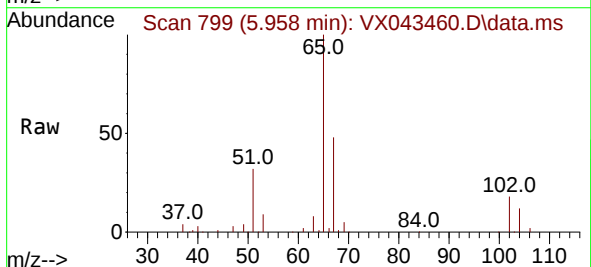


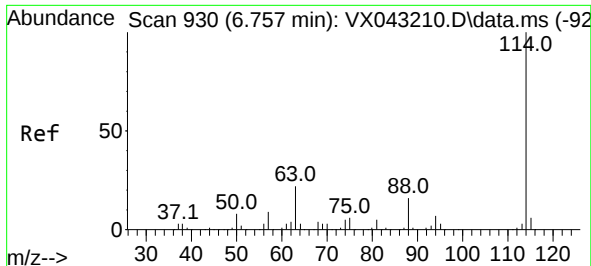
Tgt Ion: 56 Resp: 2110  
Ion Ratio Lower Upper  
56 100  
69 169.0 25.8 38.6#  
84 92.0 71.1 106.7



#33  
1,2-Dichloroethane-d4  
Concen: 53.234 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.006 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Tgt Ion: 65 Resp: 72011  
Ion Ratio Lower Upper  
65 100  
67 50.7 0.0 99.0

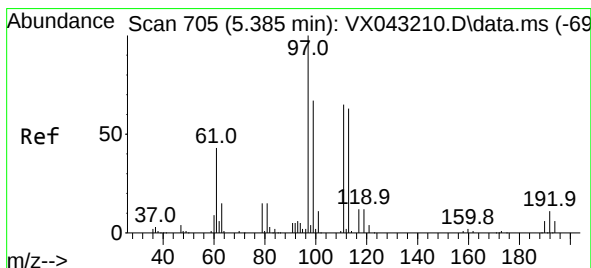
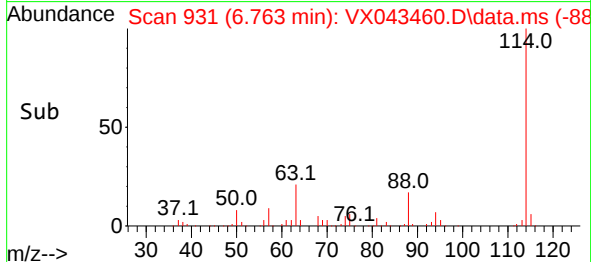
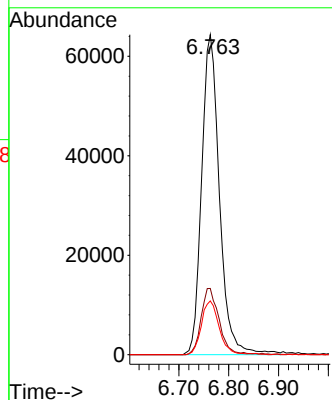
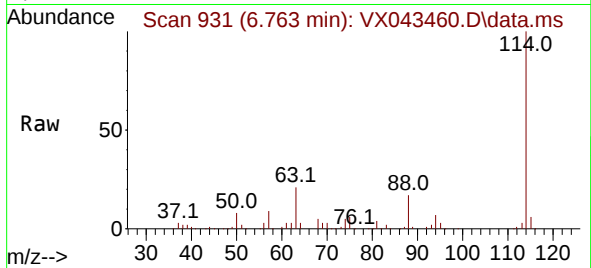




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. 0.006 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

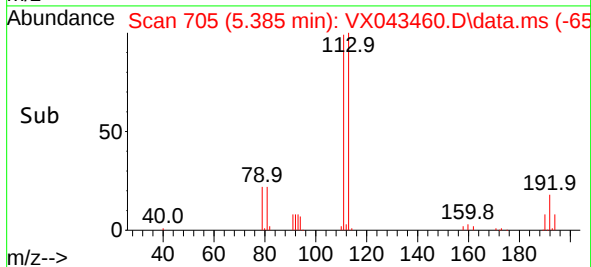
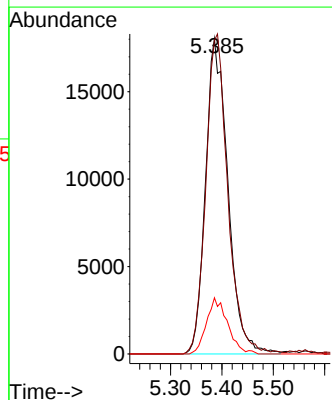
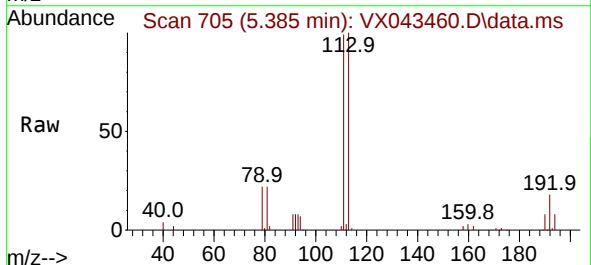
Instrument :  
MSVOA\_X  
ClientSampleId :

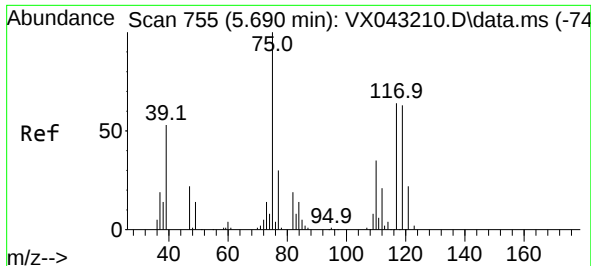
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Ion Ratio Lower Upper  
114 100  
63 20.7 0.0 43.0  
88 16.8 0.0 33.0



#35  
Dibromofluoromethane  
Concen: 49.641 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

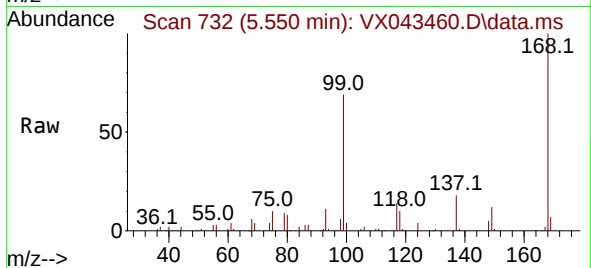
Tgt Ion:113 Resp: 54680  
Ion Ratio Lower Upper  
113 100  
111 99.1 83.4 125.0  
192 16.8 14.1 21.1



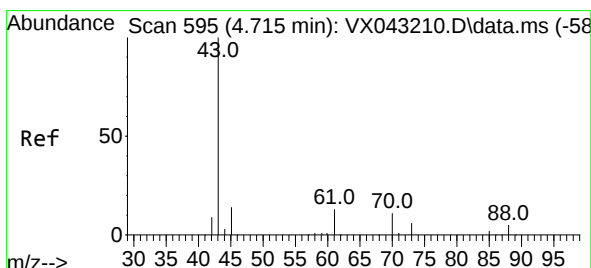
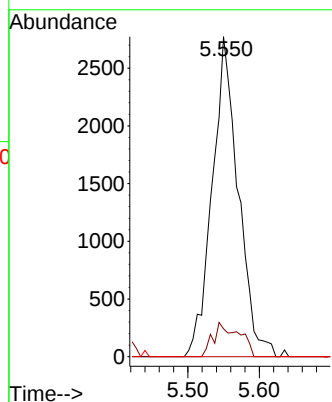
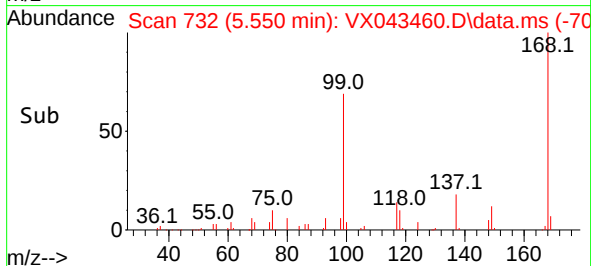


#36  
1,1-Dichloropropene  
Concen: 5.049 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Instrument :  
MSVOA\_X  
ClientSampleId :

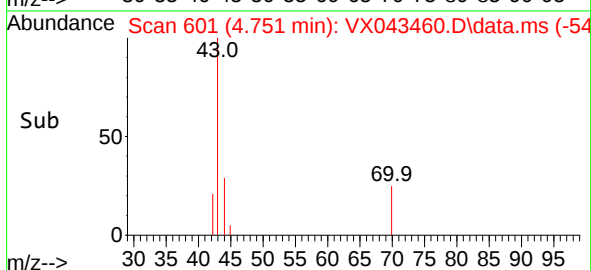
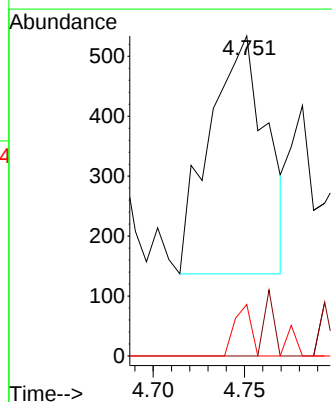
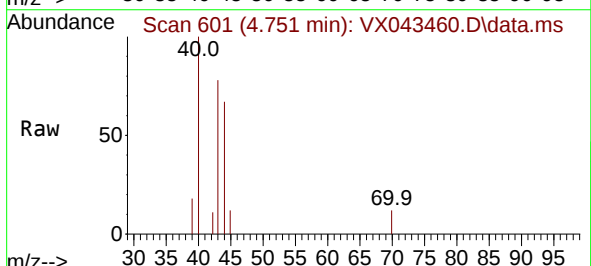


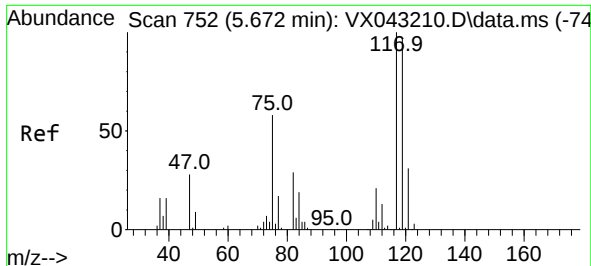
Tgt Ion: 75 Resp: 7026  
Ion Ratio Lower Upper  
75 100  
110 10.6 17.8 53.3#  
77 0.0 24.9 37.3#



#37  
Ethyl Acetate  
Concen: 0.511 ug/l  
RT: 4.751 min Scan# 601  
Delta R.T. 0.037 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

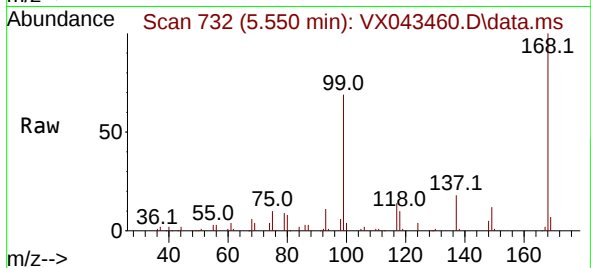
Tgt Ion: 43 Resp: 854  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.0 16.4#  
70 6.4 8.9 13.3#



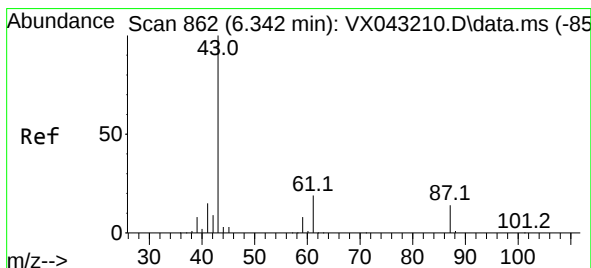
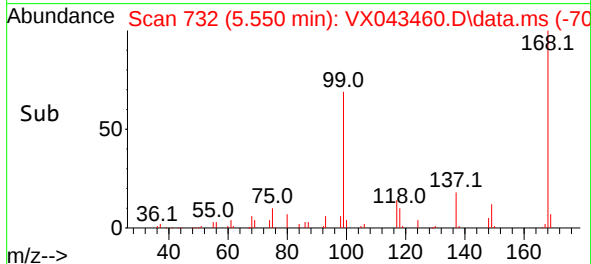
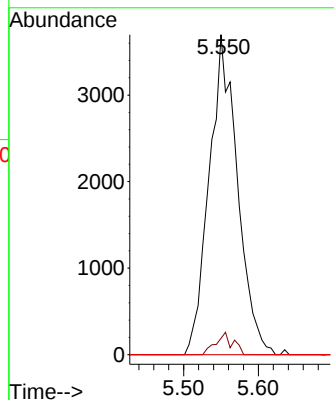


#38  
Carbon Tetrachloride  
Concen: 5.908 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Instrument :  
MSVOA\_X  
ClientSampleId :

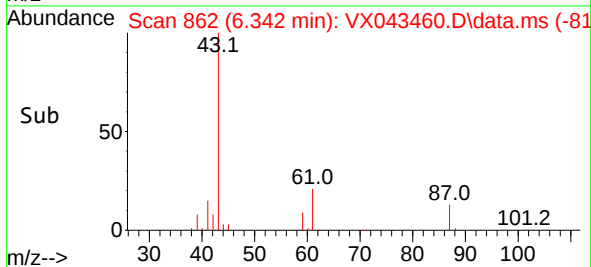
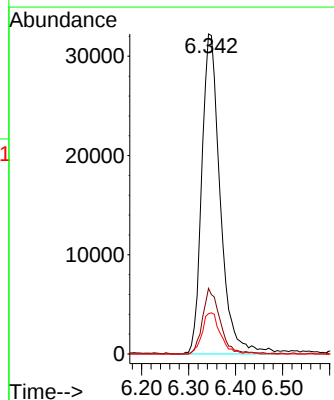
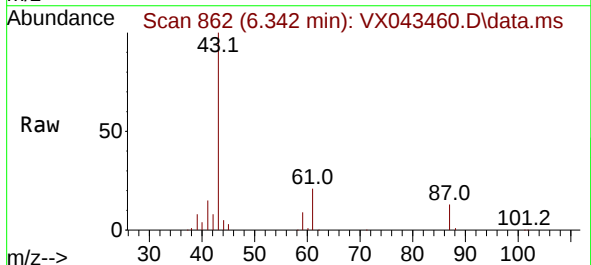


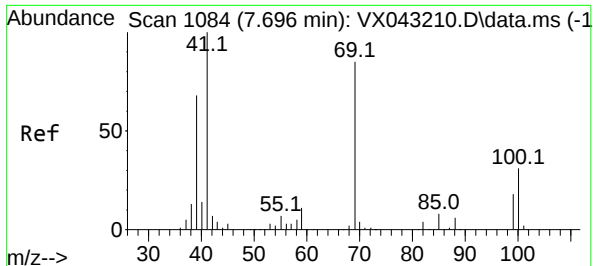
Tgt Ion:117 Resp: 9733  
Ion Ratio Lower Upper  
117 100  
119 5.1 77.7 116.5#  
121 0.0 24.3 36.5#



#43  
Isopropyl Acetate  
Concen: 31.941 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.000 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

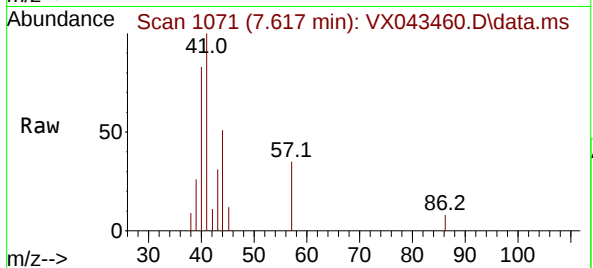
Tgt Ion: 43 Resp: 88163  
Ion Ratio Lower Upper  
43 100  
61 19.4 15.1 22.7  
87 12.5 10.8 16.2



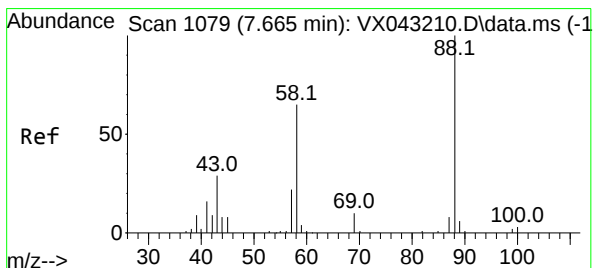
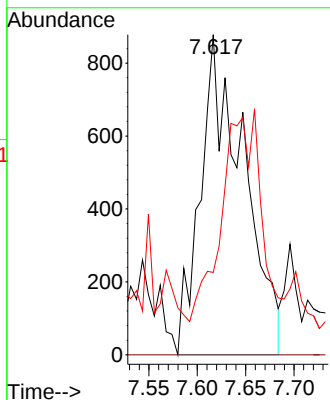
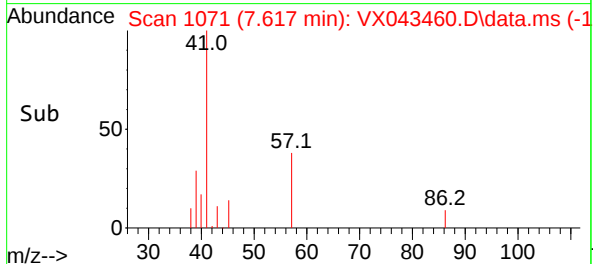


#48  
Methyl methacrylate  
Concen: 1.998 ug/l  
RT: 7.617 min Scan# 1102  
Delta R.T. -0.079 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Instrument :  
MSVOA\_X  
ClientSampleId :

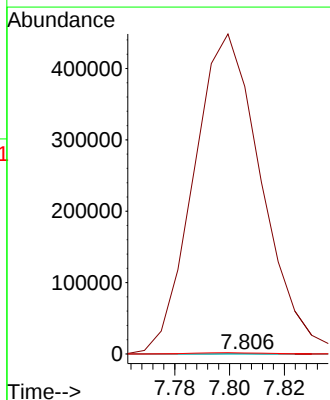
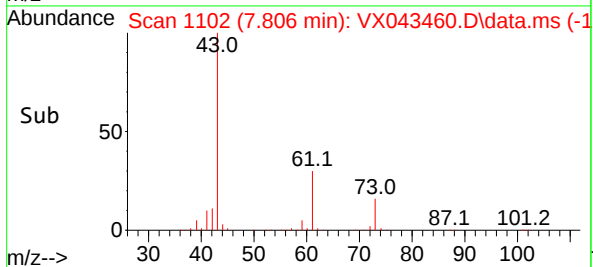
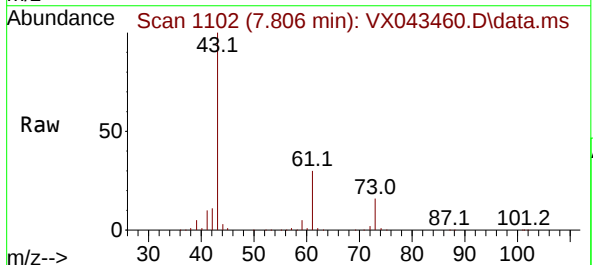


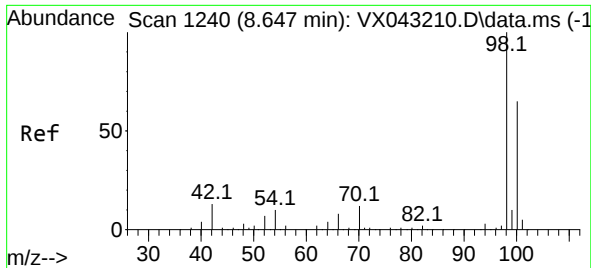
Tgt Ion: 41 Resp: 2706  
Ion Ratio Lower Upper  
41 100  
69 0.0 64.1 96.1#  
39 0.0 52.8 79.2#



#49  
1,4-Dioxane  
Concen: 5.014 ug/l  
RT: 7.806 min Scan# 1102  
Delta R.T. 0.140 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Tgt Ion: 88 Resp: 132  
Ion Ratio Lower Upper  
88 100  
43 600657.6 29.5 44.3#  
58 2552.3 55.2 82.8#

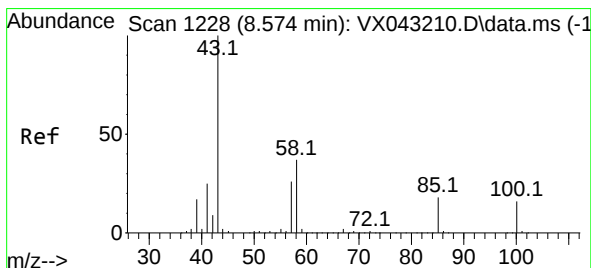
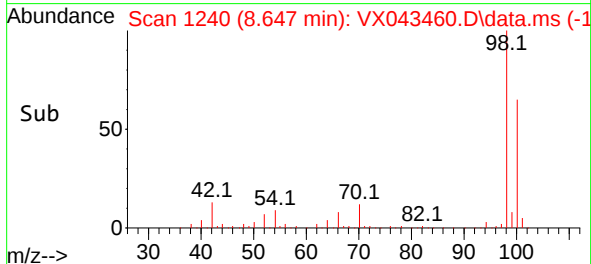
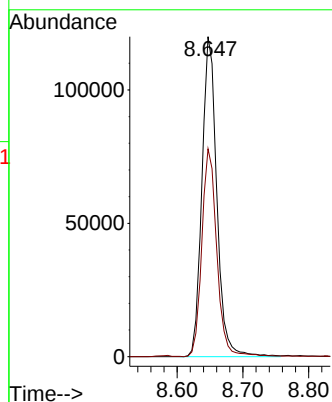
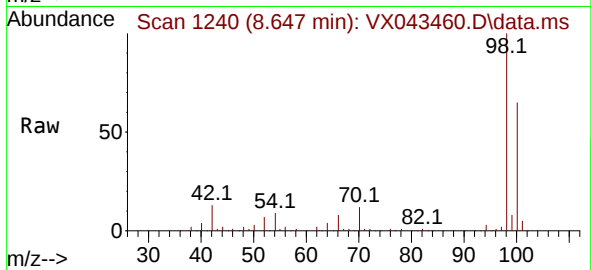




#50  
Toluene-d8  
Concen: 49.419 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

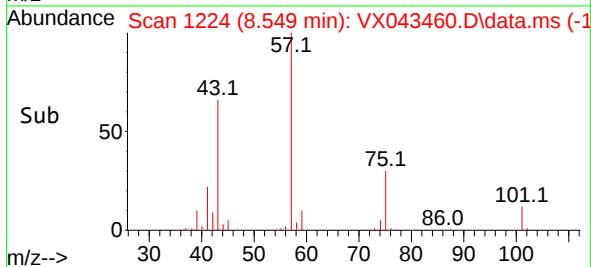
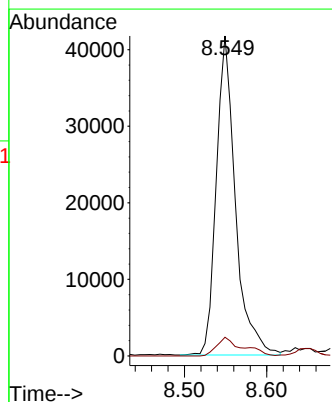
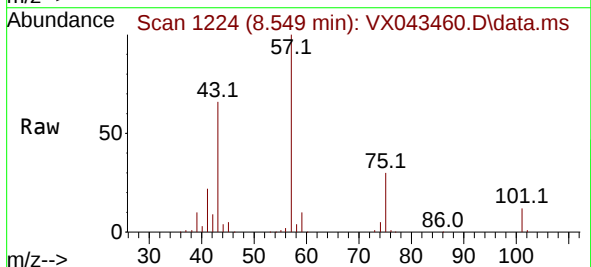
Instrument :  
MSVOA\_X  
ClientSampleId :

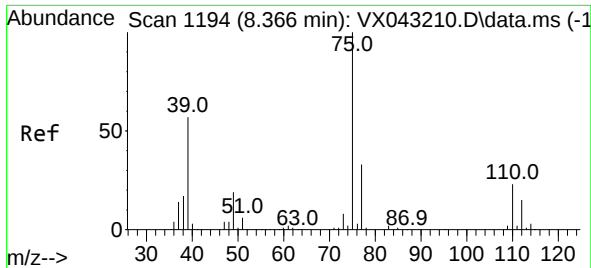
Tgt Ion: 98 Resp: 188643  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.4 78.6



#51  
4-Methyl-2-Pentanone  
Concen: 40.207 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.024 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Tgt Ion: 43 Resp: 67403  
Ion Ratio Lower Upper  
43 100  
58 7.9 30.0 45.0#

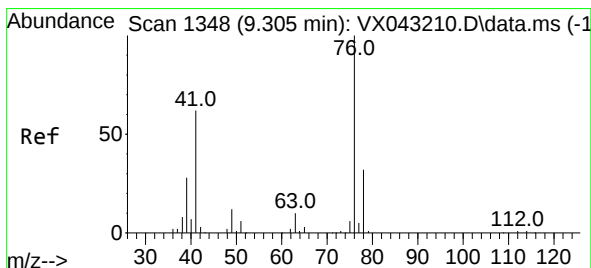
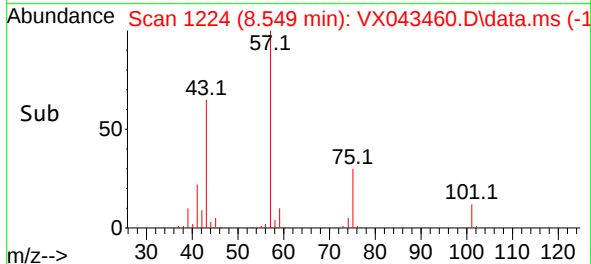
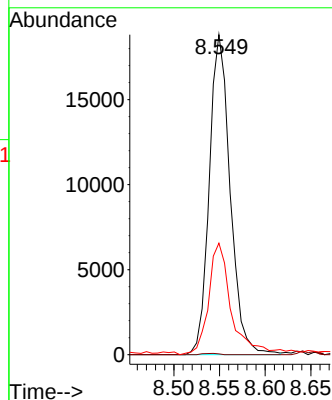
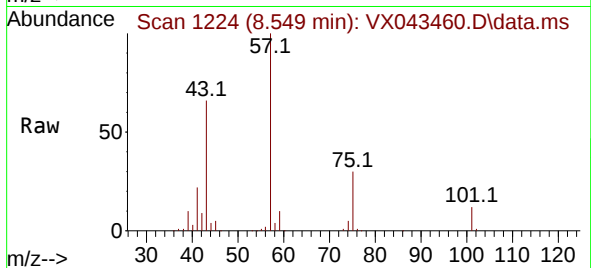




#54  
cis-1,3-Dichloropropene  
Concen: 17.167 ug/l  
RT: 8.549 min Scan# 1194  
Delta R.T. 0.183 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

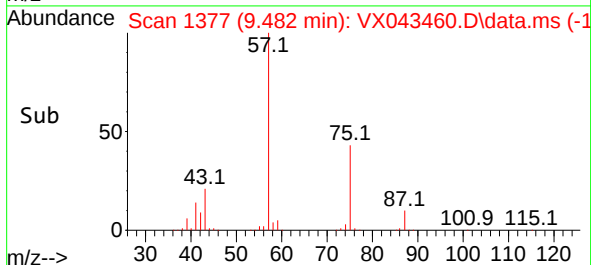
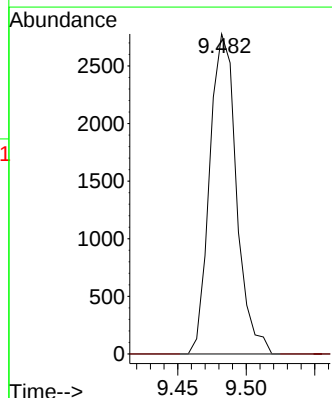
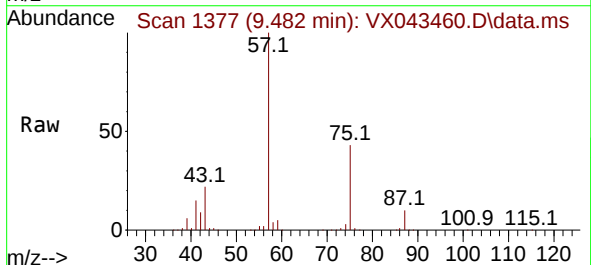
Instrument :  
MSVOA\_X  
ClientSampleId :

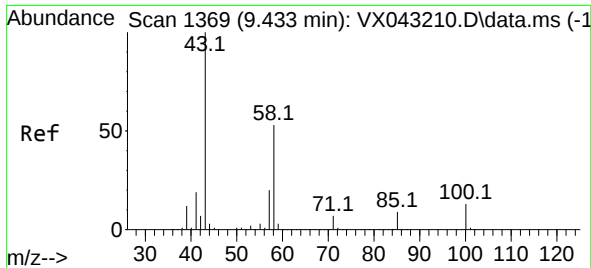
Tgt Ion: 75 Resp: 29844  
Ion Ratio Lower Upper  
75 100  
77 0.3 26.0 39.0#  
39 34.9 45.8 68.8#



#57  
1,3-Dichloropropane  
Concen: 2.107 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.177 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Tgt Ion: 76 Resp: 3772  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.7 38.5#

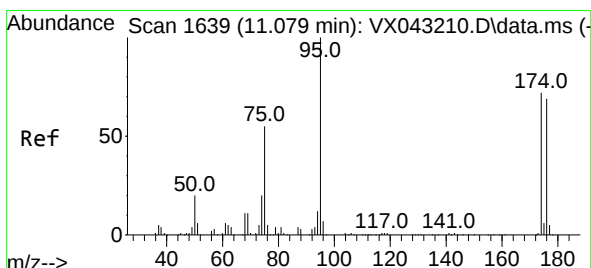
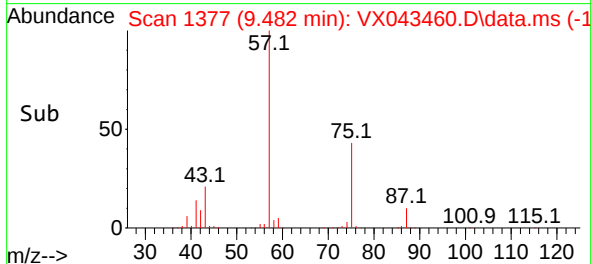
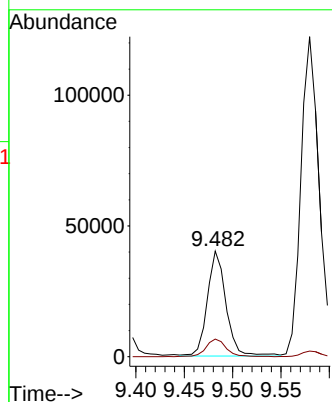
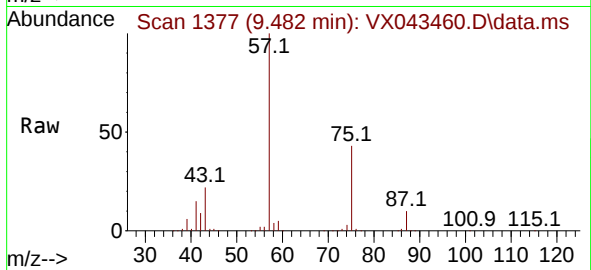




#59  
2-Hexanone  
Concen: 42.604 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.049 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

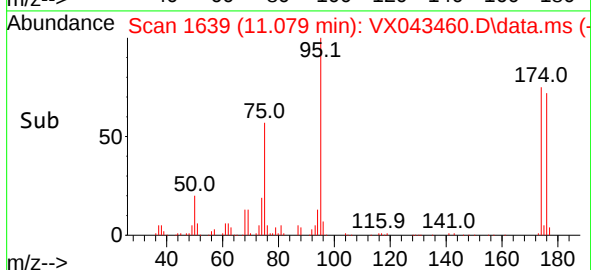
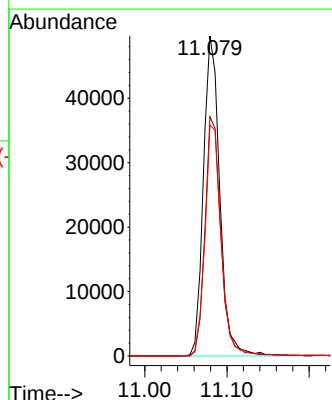
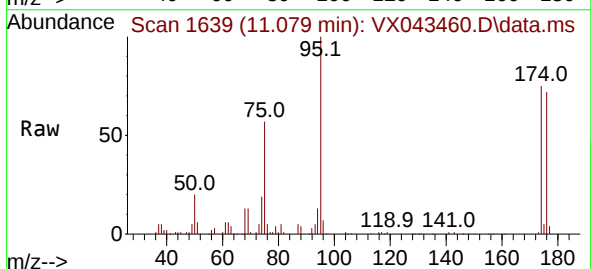
Instrument :  
MSVOA\_X  
ClientSampleId :

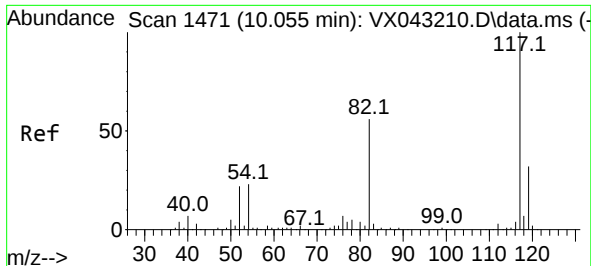
Tgt Ion: 43 Resp: 54009  
Ion Ratio Lower Upper  
43 100  
58 18.4 26.1 78.3#



#62  
4-Bromofluorobenzene  
Concen: 49.450 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

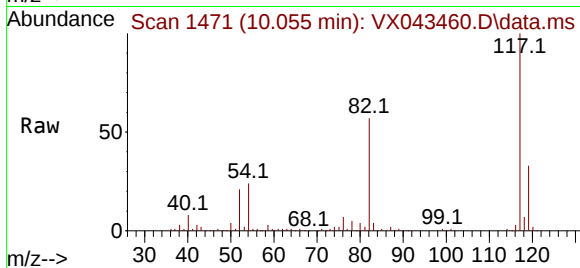
Tgt Ion: 95 Resp: 68575  
Ion Ratio Lower Upper  
95 100  
174 72.9 0.0 145.0  
176 71.8 0.0 143.0



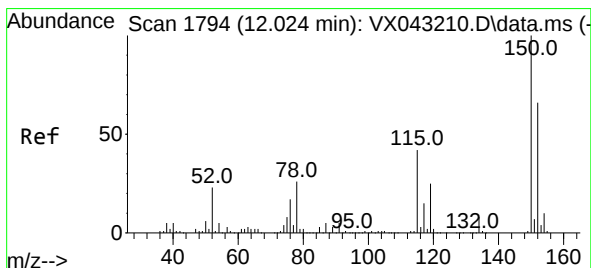
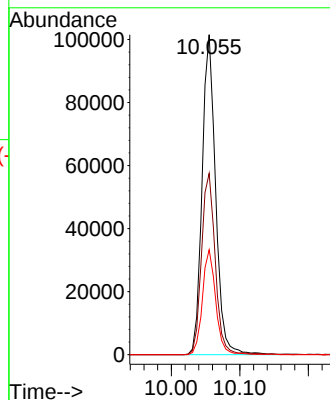
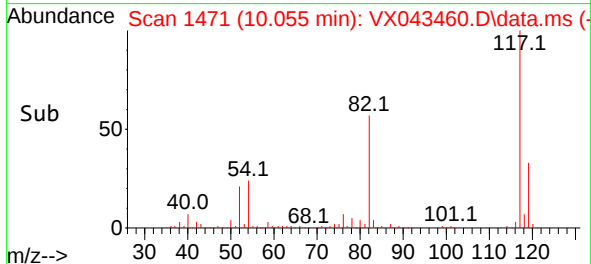


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Instrument :  
MSVOA\_X  
ClientSampleId :

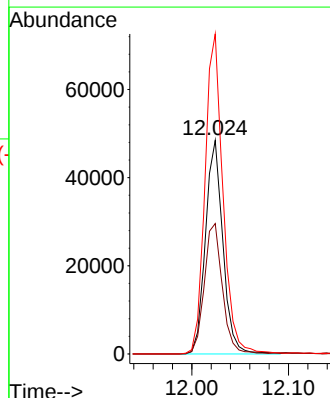
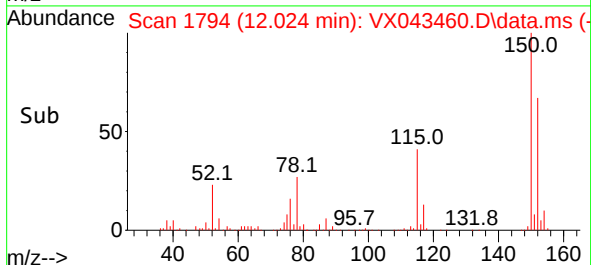
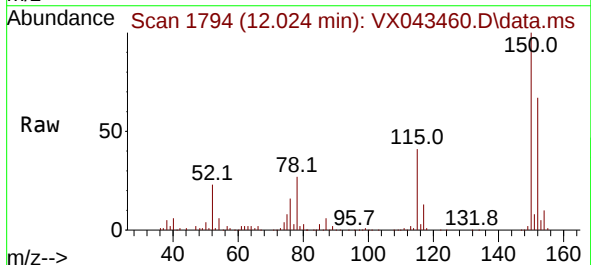


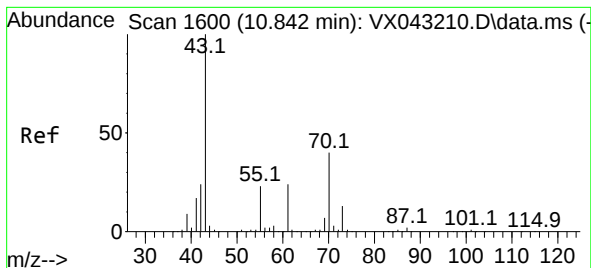
Tgt Ion:117 Resp: 139638  
Ion Ratio Lower Upper  
117 100  
82 56.7 45.0 67.6  
119 32.8 25.3 37.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

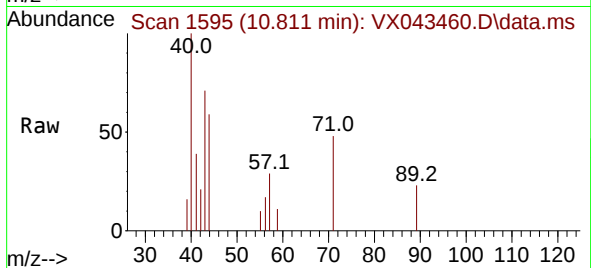
Tgt Ion:152 Resp: 61139  
Ion Ratio Lower Upper  
152 100  
115 63.3 44.1 132.3  
150 153.7 0.0 347.4



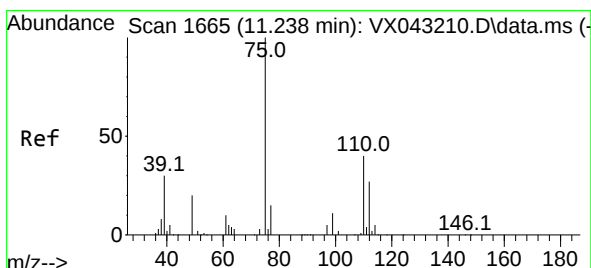
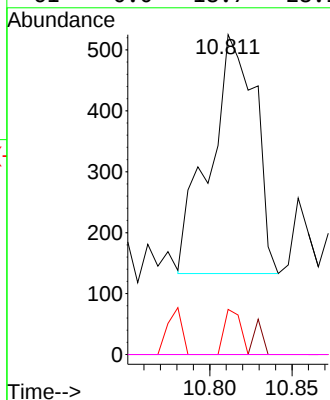
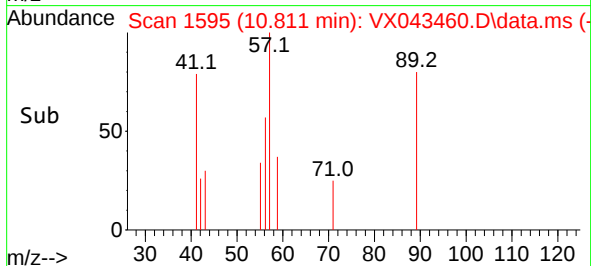


#74  
N-amy1 acetate  
Concen: 0.335 ug/l  
RT: 10.811 min Scan# 1639  
Delta R.T. -0.030 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Instrument :  
MSVOA\_X  
ClientSampleId :

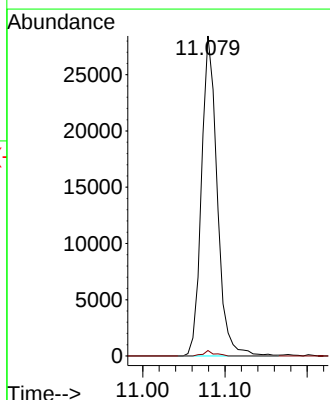
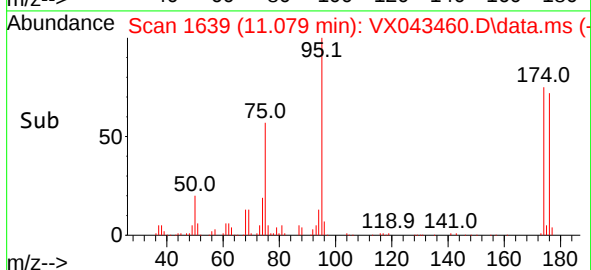
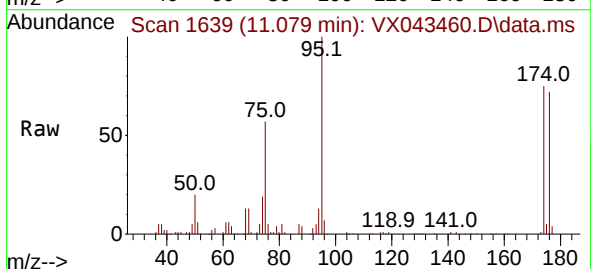


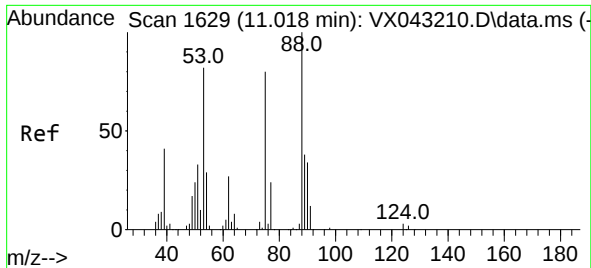
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 757   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 2.8   | 33.1  | 49.7# |
| 55       | 6.7   | 18.6  | 27.8# |
| 61       | 0.0   | 18.7  | 28.1# |



#76  
1,2,3-Trichloropropane  
Concen: 27.957 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

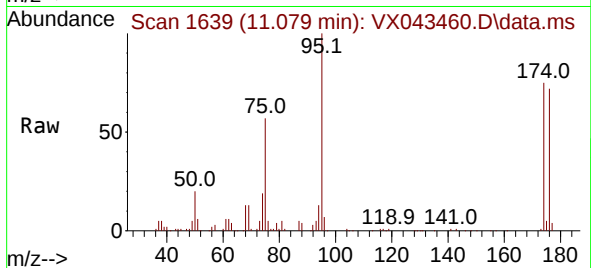
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 37913 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 1.2   | 22.0  | 66.0# |





#81  
trans-1,4-Dichloro-2-butene  
Concen: 72.454 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX043460.D  
Acq: 21 Oct 2024 17:21

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 75 Resp: 37913  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.9 125.9#  
89 0.0 38.6 58.0#

