

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX012725\  
 Data File : VX044723.D  
 Acq On : 27 Jan 2025 14:55  
 Operator : JC/MD  
 Sample : PB166212ZHE#01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB166212ZHE#01

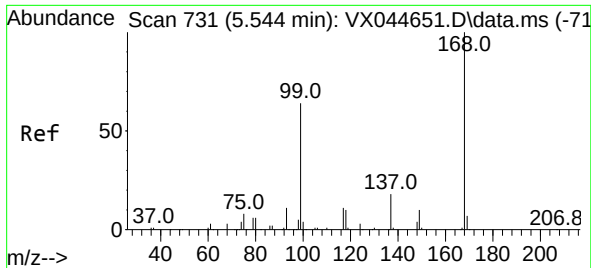
Quant Time: Jan 28 04:13:13 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011525W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 16 01:16:09 2025  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 5.544          | 168  | 143166     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 292604     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.049         | 117  | 256413     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 109686     | 50.000   | ug/l   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.946          | 65   | 107580     | 49.783   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 99.560%  |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 94384      | 50.775   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 101.540% |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 352598     | 54.401   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 108.800% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 124135     | 51.375   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = | 102.760% |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 11) Tert butyl alcohol        | 2.941          | 59   | 1464       | 3.039    | ug/l # | 90       |
| 13) Acrolein                  | 2.233          | 56   | 263        | 1.160    | ug/l # | 15       |
| 16) Acetone                   | 2.380          | 43   | 60114      | 70.311   | ug/l   | 94       |
| 18) Methyl Acetate            | 2.709          | 43   | 2990       | 1.134    | ug/l   | 97       |
| 20) Methylene Chloride        | 2.782          | 84   | 2079       | 1.044    | ug/l   | 94       |
| 25) 2-Butanone                | 4.587          | 43   | 6396       | 5.032    | ug/l   | 95       |
| 29) Tetrahydrofuran           | 5.032          | 42   | 454        | 0.554    | ug/l   | 92       |
| 30) Chloroform                | 5.087          | 83   | 1364       | 0.402    | ug/l   | 96       |
| 36) 1,1-Dichloropropene       | 5.538          | 75   | 12500      | 4.831    | ug/l # | 49       |
| 37) Ethyl Acetate             | 4.745          | 43   | 3218       | 1.168    | ug/l # | 96       |
| 38) Carbon Tetrachloride      | 5.538          | 117  | 14958      | 5.139    | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.336          | 43   | 150470     | 29.683   | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.617          | 41   | 3626       | 1.541    | ug/l # | 37       |
| 49) 1,4-Dioxane               | 7.787          | 88   | 209        | 4.257    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.543          | 43   | 115711     | 41.305   | ug/l # | 50       |
| 53) t-1,3-Dichloropropene     | 8.958          | 75   | 907        | 0.279    | ug/l # | 44       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 55967      | 15.855   | ug/l # | 56       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 6792       | 2.009    | ug/l # | 43       |
| 59) 2-Hexanone                | 9.482          | 43   | 89158      | 43.260   | ug/l # | 51       |
| 74) N-amyl acetate            | 10.817         | 43   | 1451       | 0.329    | ug/l # | 52       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 61319      | 23.036   | ug/l # | 32       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 61319      | 52.679   | ug/l # | 12       |
| -----                         |                |      |            |          |        |          |

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

Quant Time: Jan 28 04:13:13 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011525W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 16 01:16:09 2025  
Response via : Initial Calibration

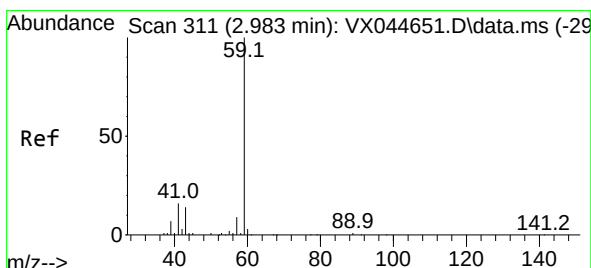
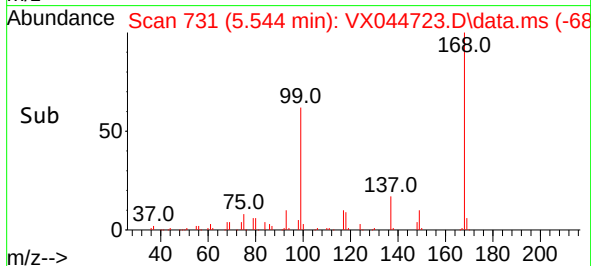
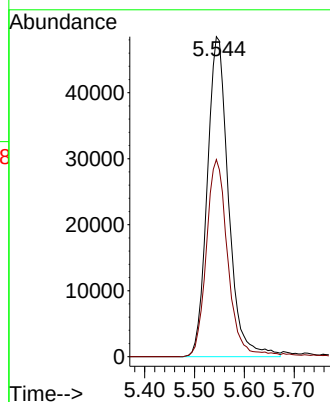
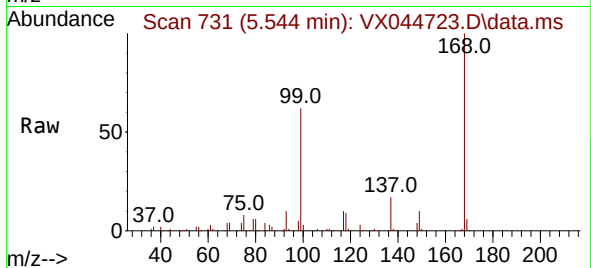




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

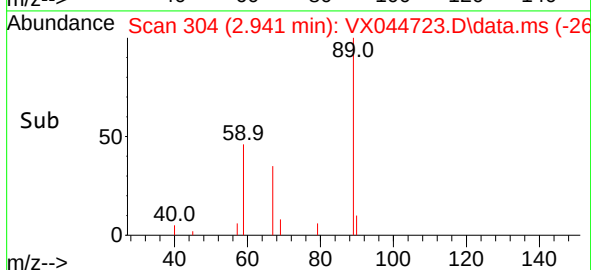
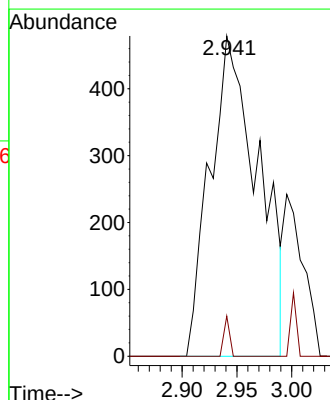
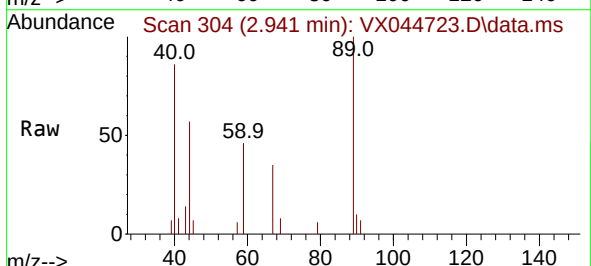
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#01

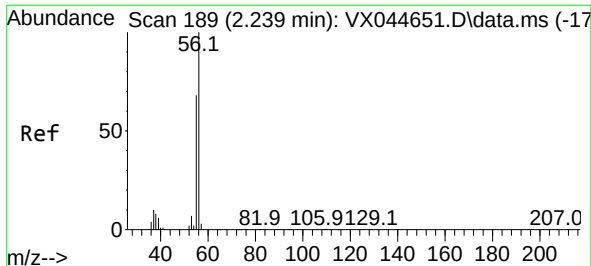
Tgt Ion:168 Resp: 143166  
Ion Ratio Lower Upper  
168 100  
99 61.6 51.1 76.7



#11  
Tert butyl alcohol  
Concen: 3.039 ug/l  
RT: 2.941 min Scan# 304  
Delta R.T. -0.042 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Tgt Ion: 59 Resp: 1464  
Ion Ratio Lower Upper  
59 100  
57 1.5 3.9 5.9#

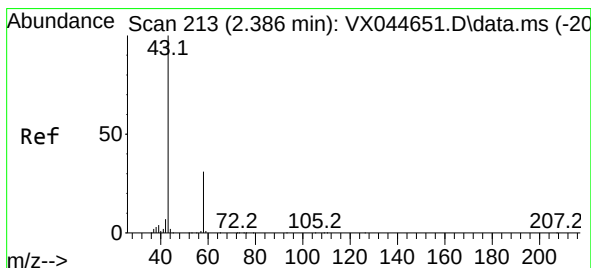
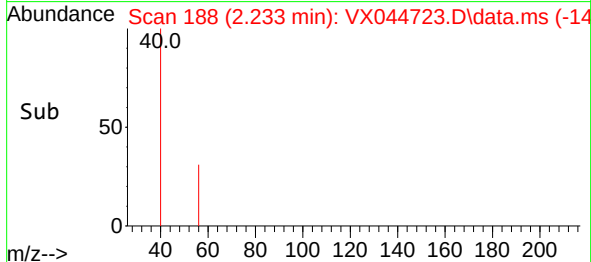
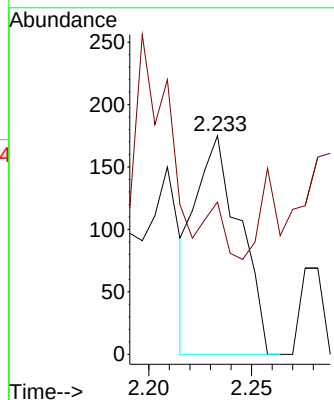
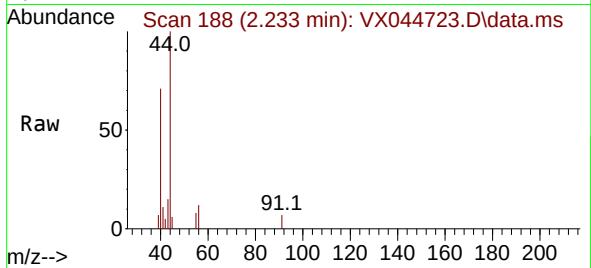




#13  
Acrolein  
Concen: 1.160 ug/l  
RT: 2.233 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

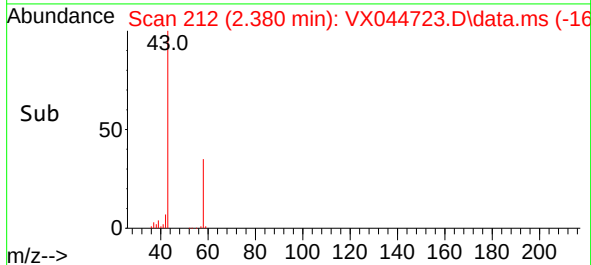
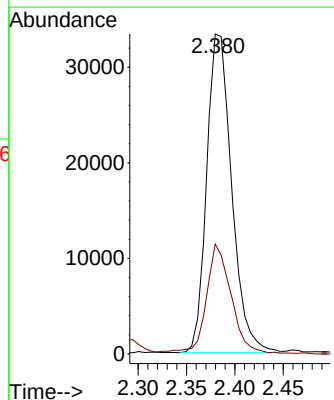
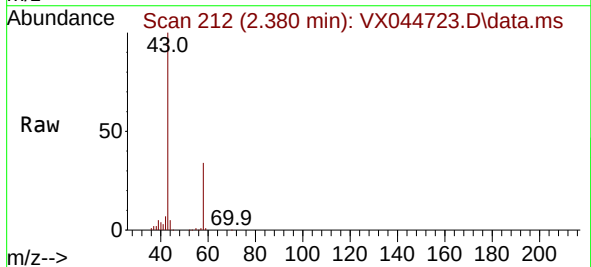
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#01

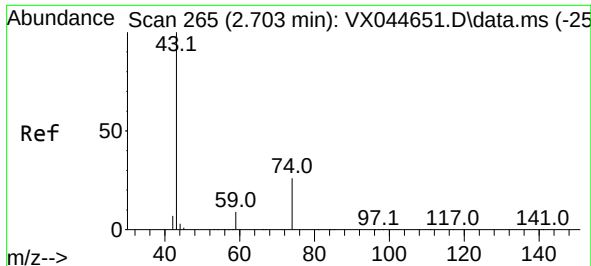
Tgt Ion: 56 Resp: 263  
Ion Ratio Lower Upper  
56 100  
55 0.0 55.1 82.7#



#16  
Acetone  
Concen: 70.311 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.006 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Tgt Ion: 43 Resp: 60114  
Ion Ratio Lower Upper  
43 100  
58 34.2 24.6 37.0

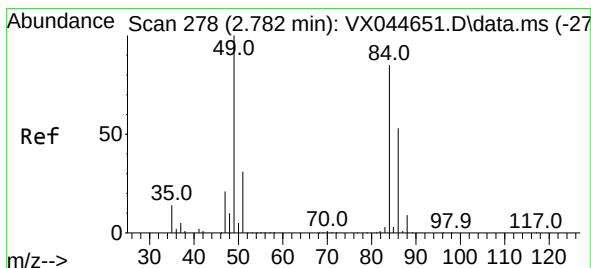
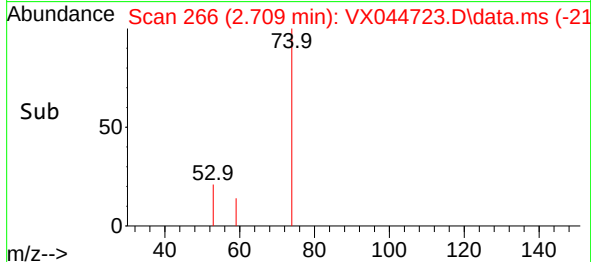
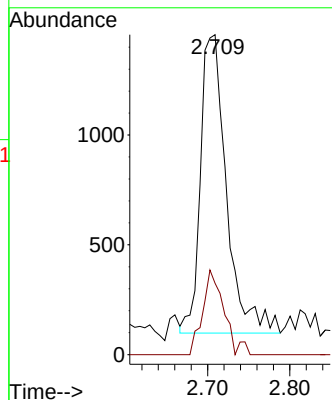
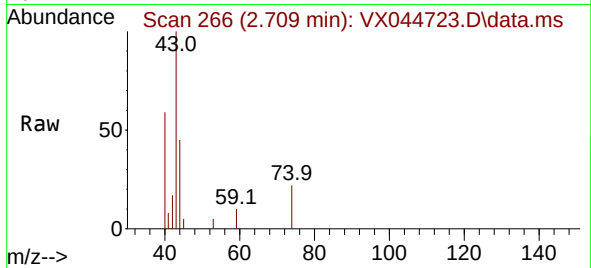




#18  
Methyl Acetate  
Concen: 1.134 ug/l  
RT: 2.709 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

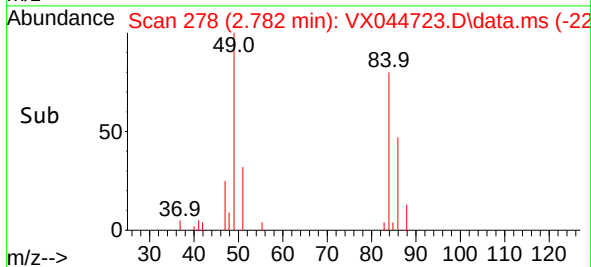
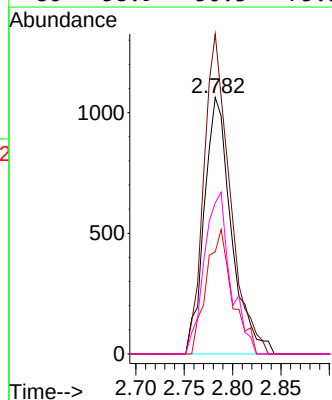
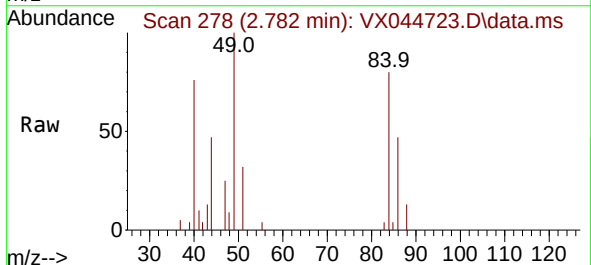
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#01

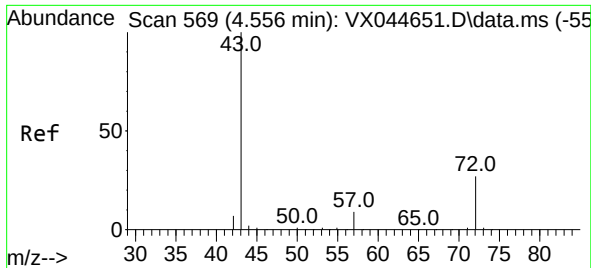
Tgt Ion: 43 Resp: 2990  
Ion Ratio Lower Upper  
43 100  
74 23.2 19.8 29.8



#20  
Methylene Chloride  
Concen: 1.044 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. 0.000 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Tgt Ion: 84 Resp: 2079  
Ion Ratio Lower Upper  
84 100  
49 124.7 94.2 141.4  
51 39.8 28.8 43.2  
86 58.9 50.3 75.5

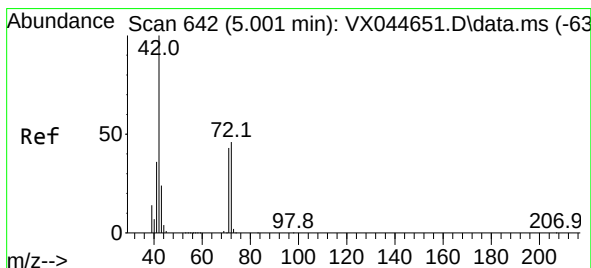
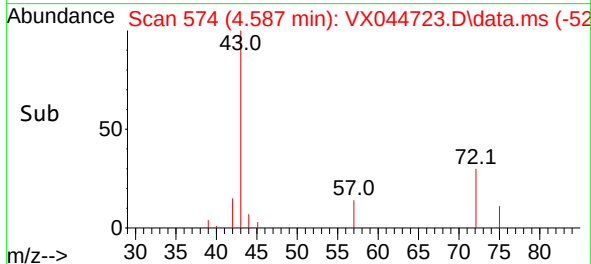
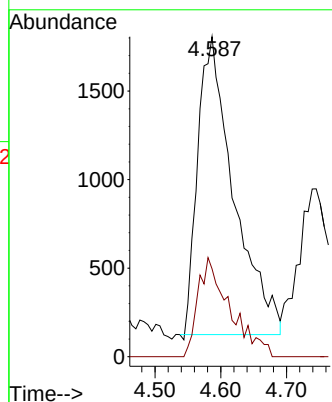
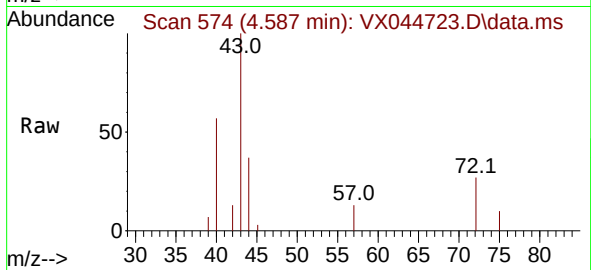




#25  
2-Butanone  
Concen: 5.032 ug/l  
RT: 4.587 min Scan# 51  
Delta R.T. 0.031 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

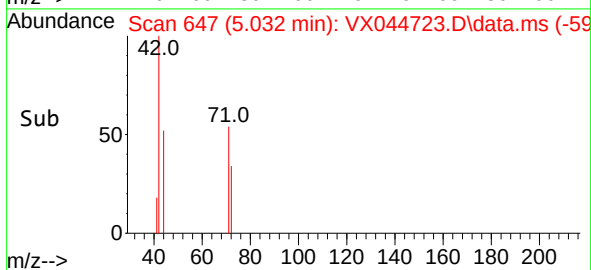
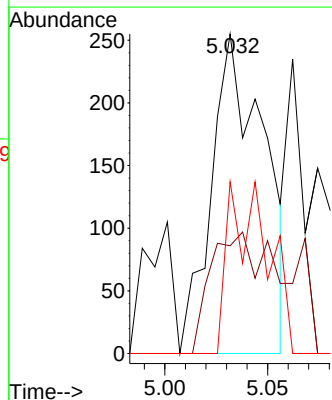
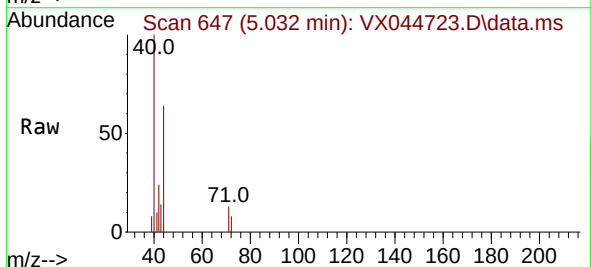
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#01

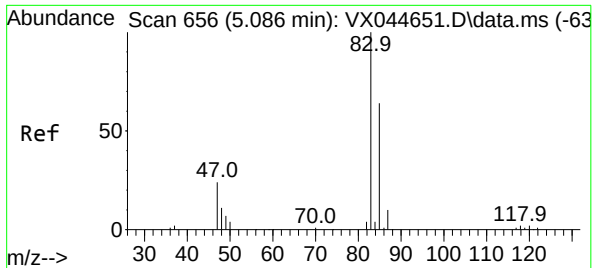
Tgt Ion: 43 Resp: 6396  
Ion Ratio Lower Upper  
43 100  
72 29.5 21.7 32.5



#29  
Tetrahydrofuran  
Concen: 0.554 ug/l  
RT: 5.032 min Scan# 647  
Delta R.T. 0.031 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Tgt Ion: 42 Resp: 454  
Ion Ratio Lower Upper  
42 100  
72 54.6 38.2 57.4  
71 40.3 35.3 52.9

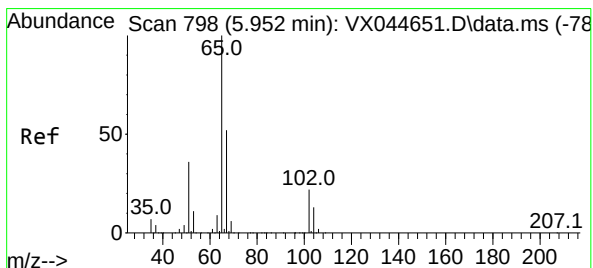
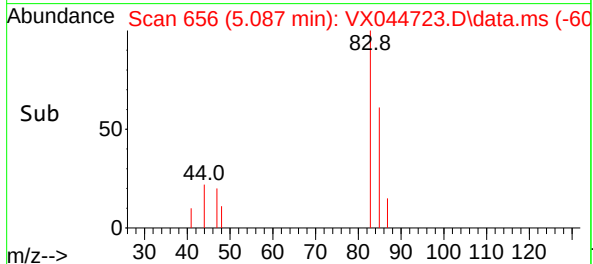
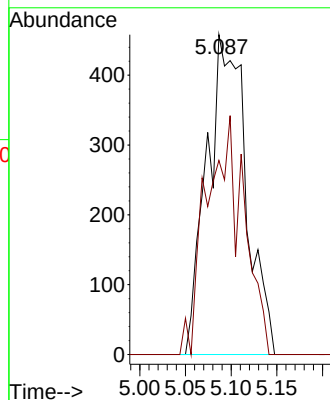
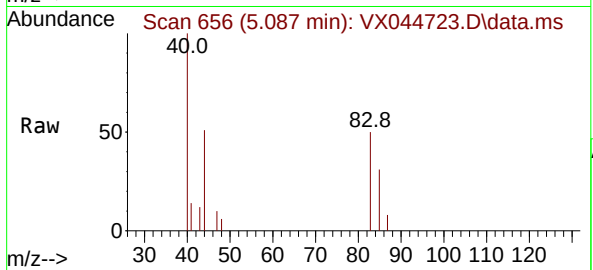




#30  
Chloroform  
Concen: 0.402 ug/l  
RT: 5.087 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

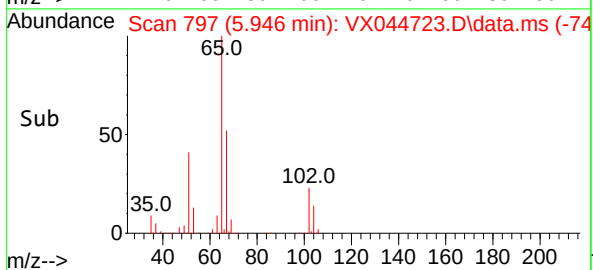
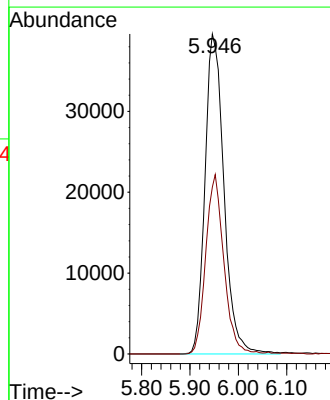
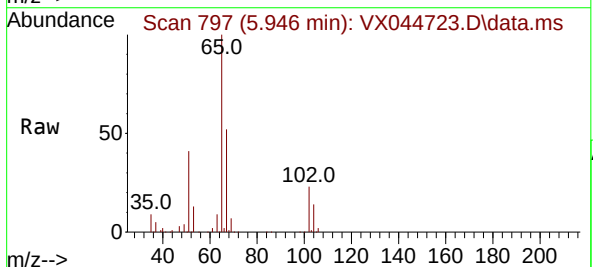
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#01

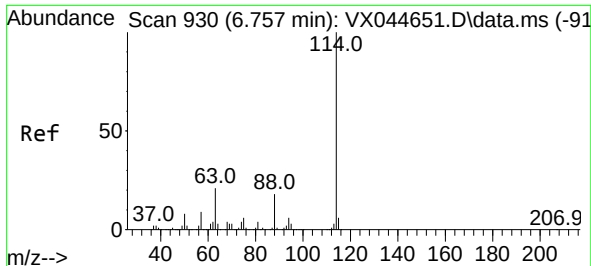
Tgt Ion: 83 Resp: 1364  
Ion Ratio Lower Upper  
83 100  
85 60.7 51.2 76.8



#33  
1,2-Dichloroethane-d4  
Concen: 49.783 ug/l  
RT: 5.946 min Scan# 797  
Delta R.T. -0.006 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Tgt Ion: 65 Resp: 107580  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 103.4

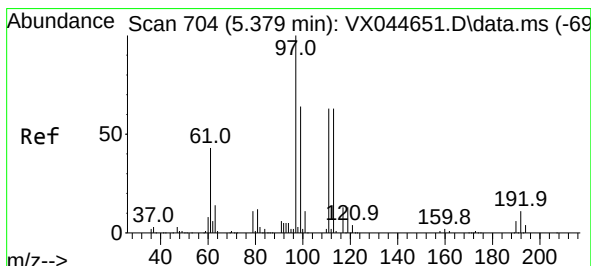
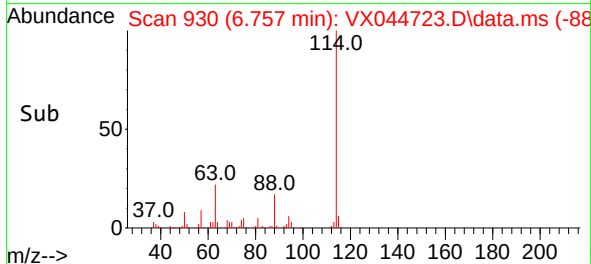
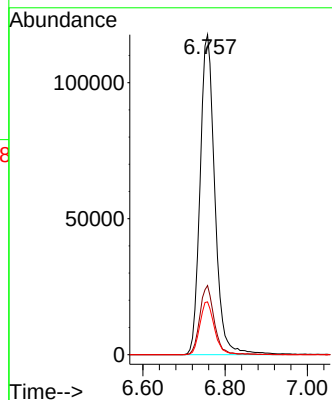
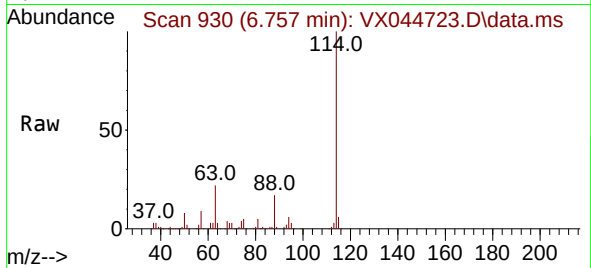




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

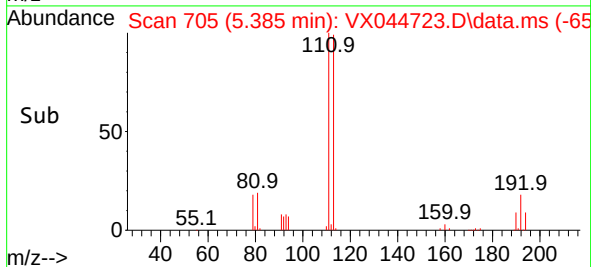
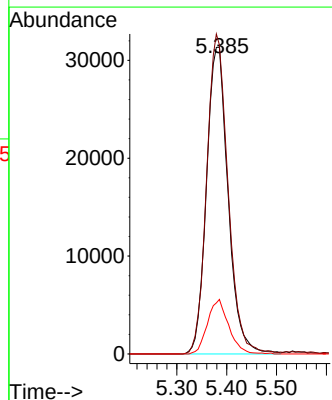
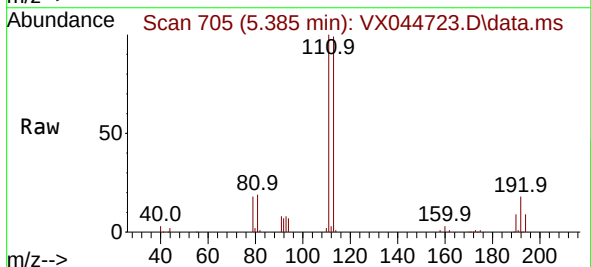
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#01

Tgt Ion:114 Resp: 292604  
Ion Ratio Lower Upper  
114 100  
63 21.6 0.0 43.0  
88 16.5 0.0 35.4

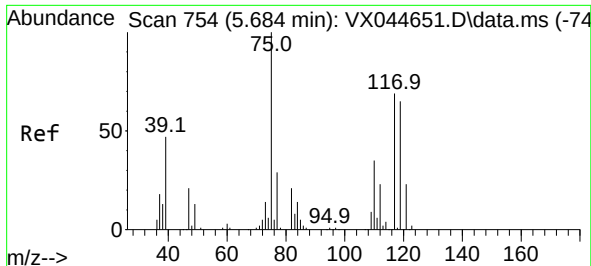


#35  
Dibromofluoromethane  
Concen: 50.775 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Tgt Ion:113 Resp: 94384  
Ion Ratio Lower Upper  
113 100  
111 103.0 81.6 122.4  
192 17.5 14.4 21.6



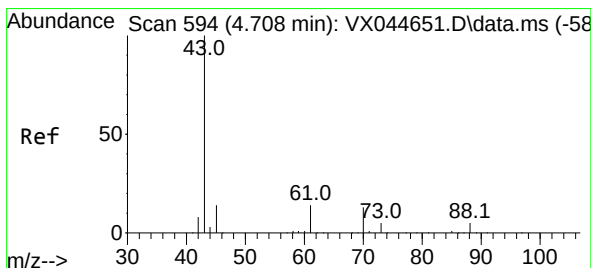
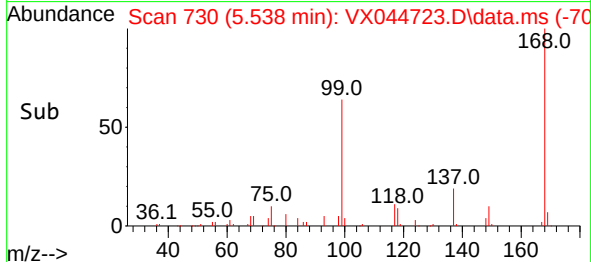
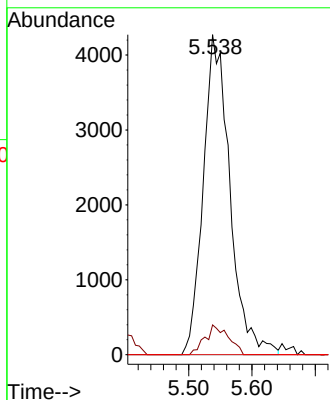
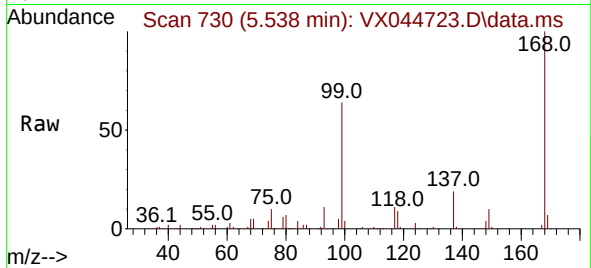




#36  
1,1-Dichloropropene  
Concen: 4.831 ug/l  
RT: 5.538 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

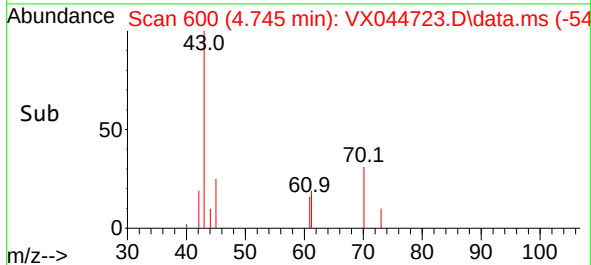
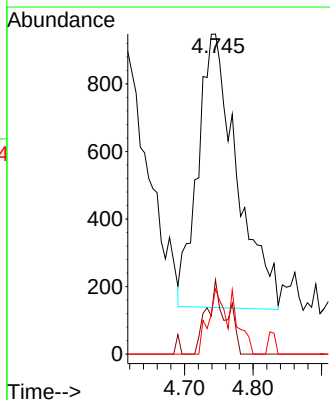
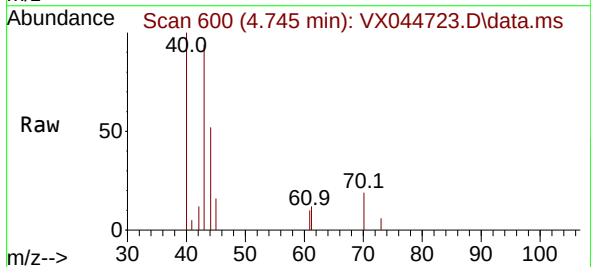
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#01

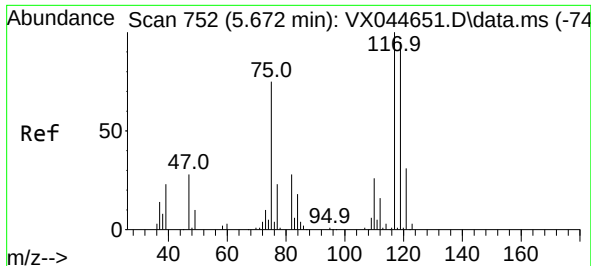
Tgt Ion: 75 Resp: 12500  
Ion Ratio Lower Upper  
75 100  
110 8.2 17.9 53.8#  
77 0.0 24.5 36.7#



#37  
Ethyl Acetate  
Concen: 1.168 ug/l  
RT: 4.745 min Scan# 600  
Delta R.T. 0.037 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

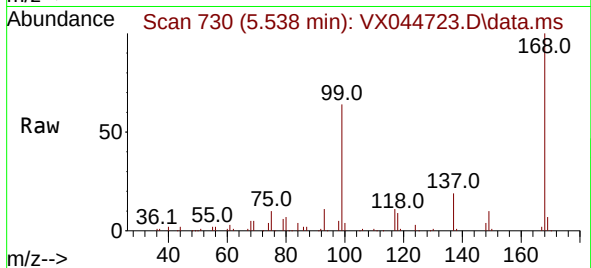
Tgt Ion: 43 Resp: 3218  
Ion Ratio Lower Upper  
43 100  
61 13.6 10.9 16.3  
70 9.7 10.1 15.1#



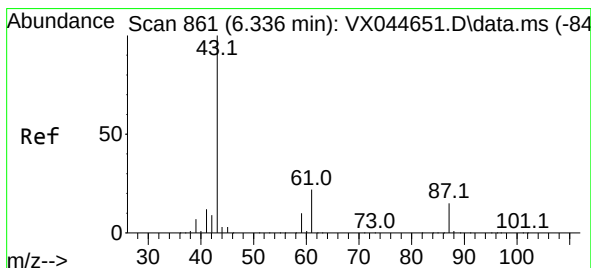
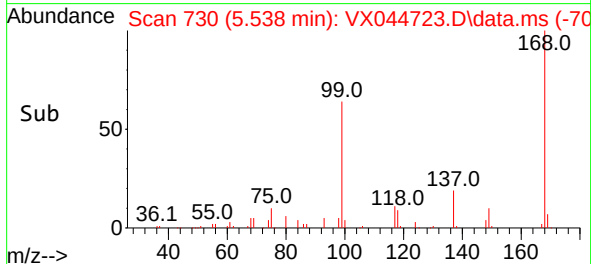
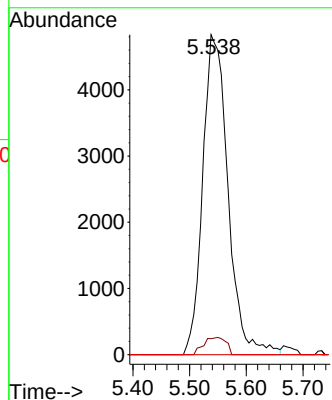


#38  
Carbon Tetrachloride  
Concen: 5.139 ug/l  
RT: 5.538 min Scan# 71  
Delta R.T. -0.134 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#01

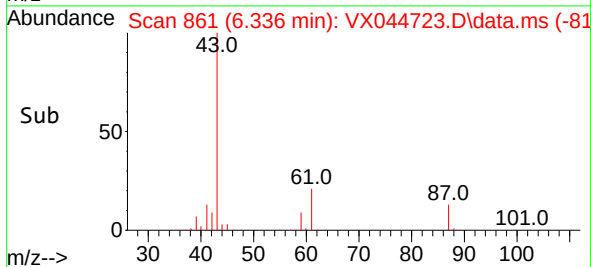
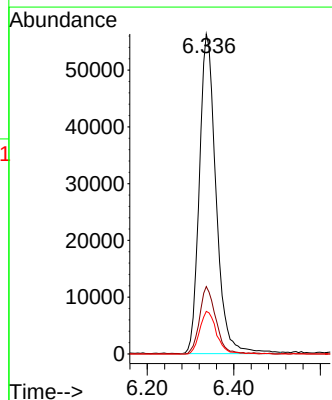
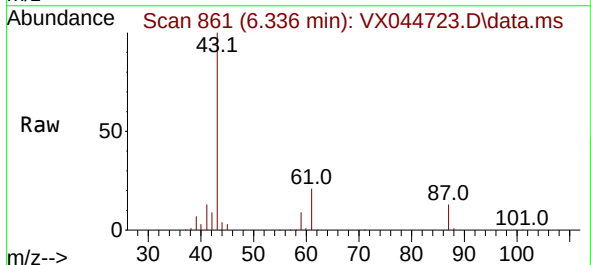


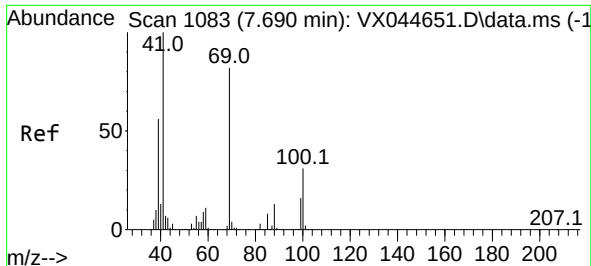
Tgt Ion:117 Resp: 14958  
Ion Ratio Lower Upper  
117 100  
119 5.0 76.0 114.0#  
121 0.0 24.6 36.8#



#43  
Isopropyl Acetate  
Concen: 29.683 ug/l  
RT: 6.336 min Scan# 861  
Delta R.T. 0.000 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Tgt Ion: 43 Resp: 150470  
Ion Ratio Lower Upper  
43 100  
61 20.5 16.6 24.8  
87 13.3 11.0 16.6

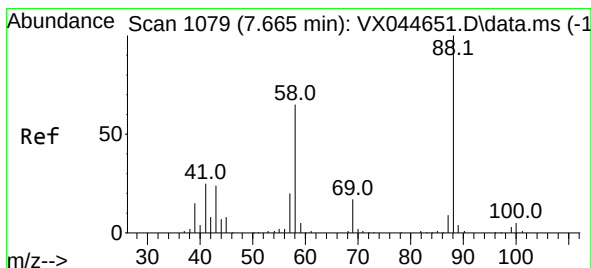
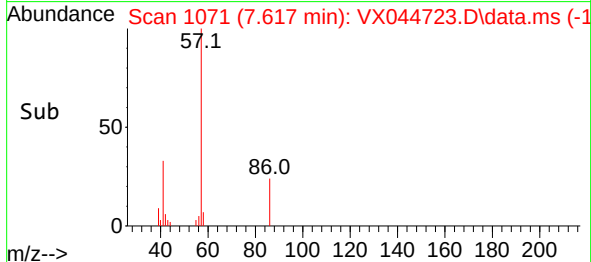
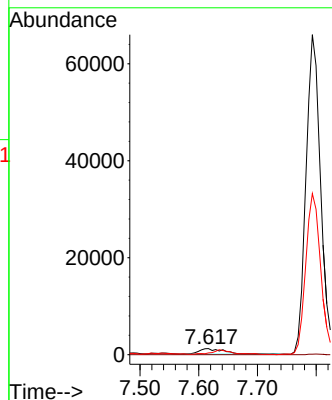
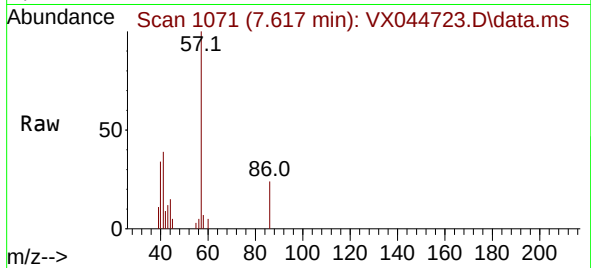




#48  
Methyl methacrylate  
Concen: 1.541 ug/l  
RT: 7.617 min Scan# 1071  
Delta R.T. -0.073 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

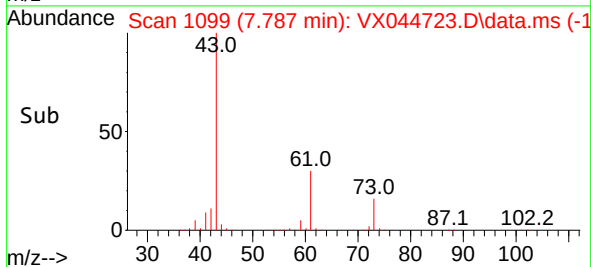
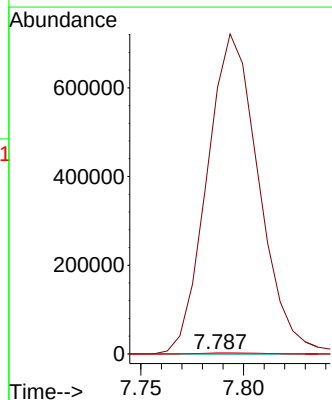
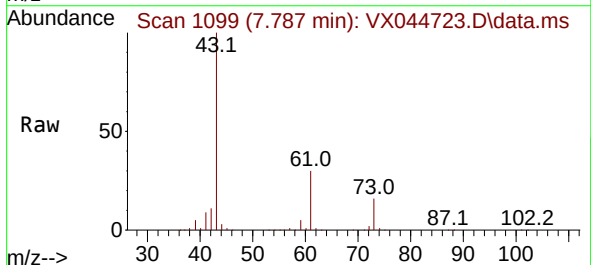
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#01

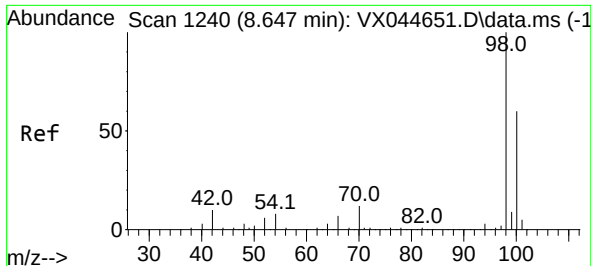
Tgt Ion: 41 Resp: 3626  
Ion Ratio Lower Upper  
41 100  
69 0.0 66.8 100.2#  
39 75.7 47.4 71.0#



#49  
1,4-Dioxane  
Concen: 4.257 ug/l  
RT: 7.787 min Scan# 1099  
Delta R.T. 0.122 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Tgt Ion: 88 Resp: 209  
Ion Ratio Lower Upper  
88 100  
43 616112.0 27.0 40.4#  
58 2386.1 55.8 83.8#

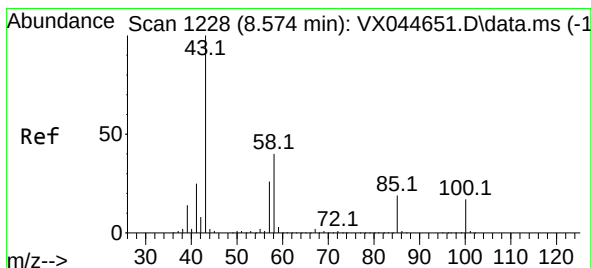
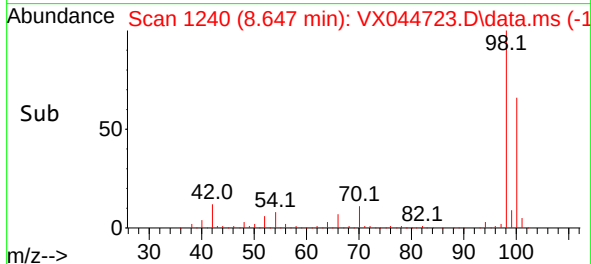
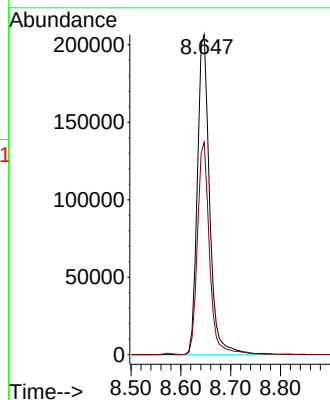
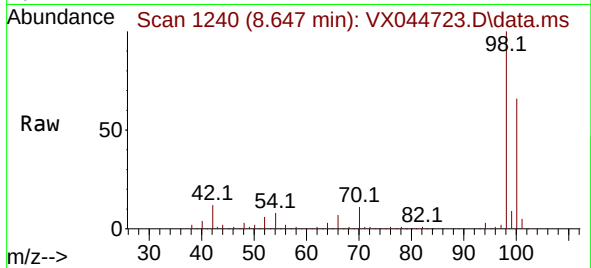




#50  
Toluene-d8  
Concen: 54.401 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

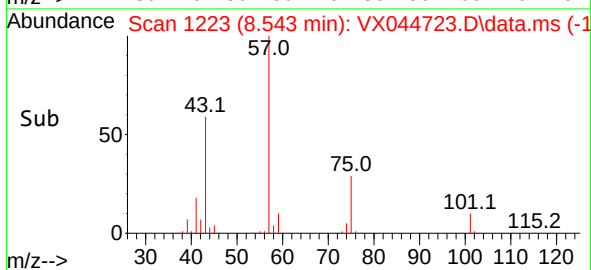
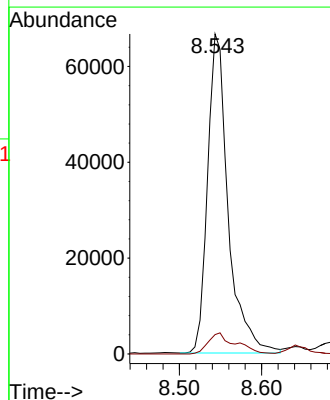
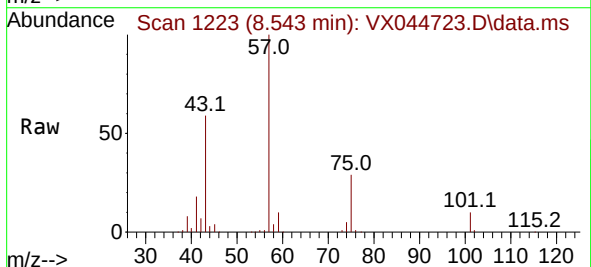
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#01

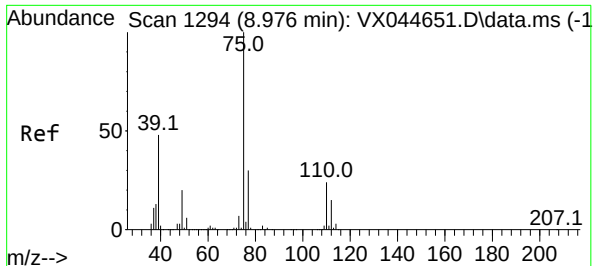
Tgt Ion: 98 Resp: 352598  
Ion Ratio Lower Upper  
98 100  
100 65.2 53.2 79.8



#51  
4-Methyl-2-Pentanone  
Concen: 41.305 ug/l  
RT: 8.543 min Scan# 1223  
Delta R.T. -0.030 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Tgt Ion: 43 Resp: 115711  
Ion Ratio Lower Upper  
43 100  
58 8.8 31.9 47.9#

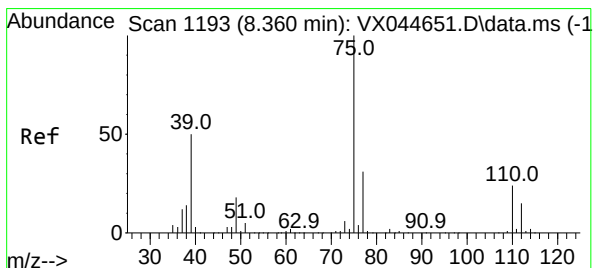
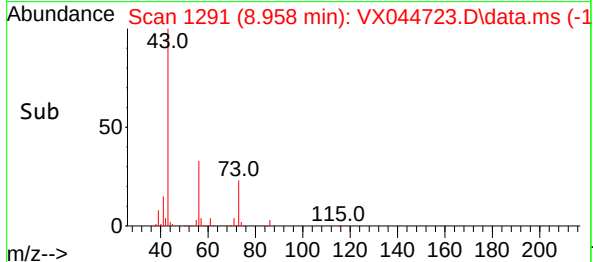
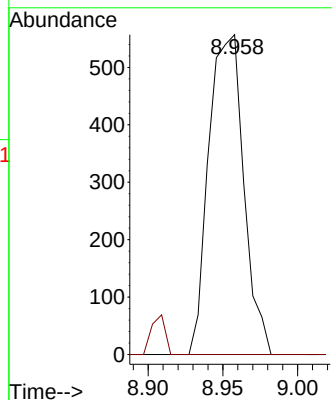
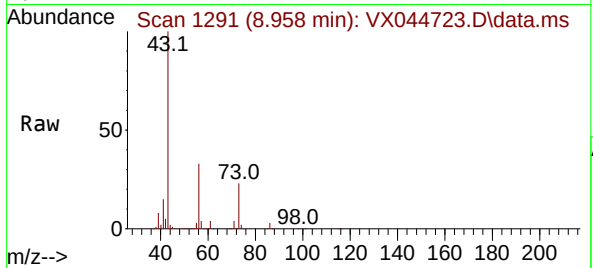




#53  
t-1,3-Dichloropropene  
Concen: 0.279 ug/l  
RT: 8.958 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

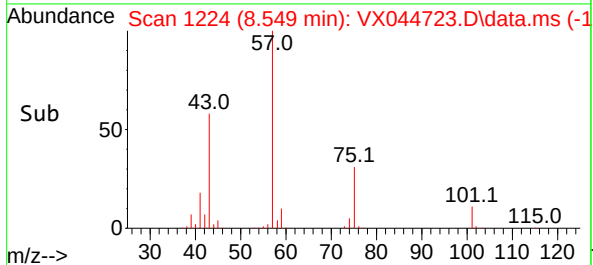
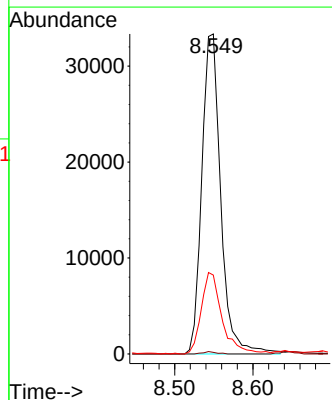
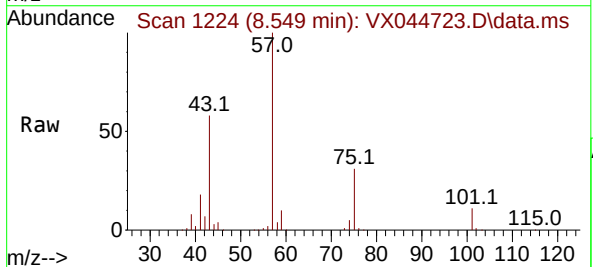
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#01

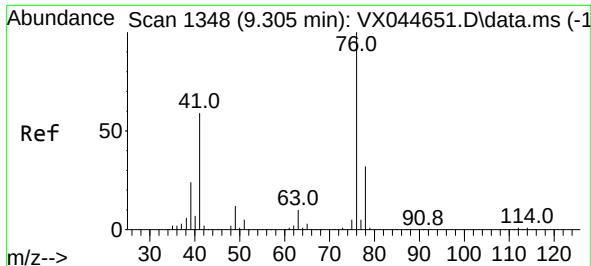
Tgt Ion: 75 Resp: 907  
Ion Ratio Lower Upper  
75 100  
77 0.0 24.4 36.6#



#54  
cis-1,3-Dichloropropene  
Concen: 15.855 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. 0.189 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Tgt Ion: 75 Resp: 55967  
Ion Ratio Lower Upper  
75 100  
77 0.5 25.1 37.7#  
39 24.7 40.3 60.5#





#57

1,3-Dichloropropane

Concen: 2.009 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX044723.D

Acq: 27 Jan 2025 14:55

Instrument :

MSVOA\_X

ClientSampleId :

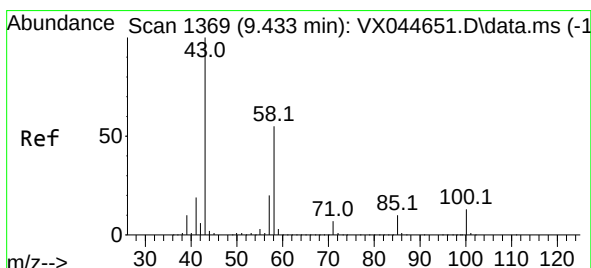
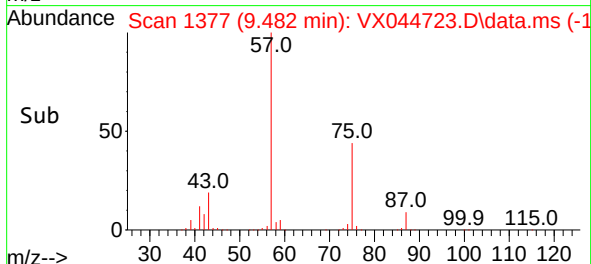
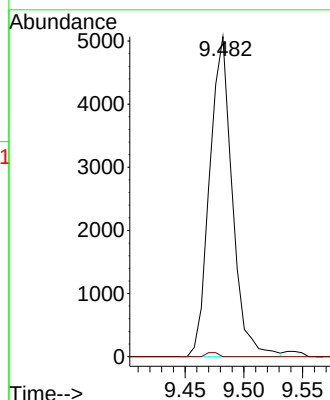
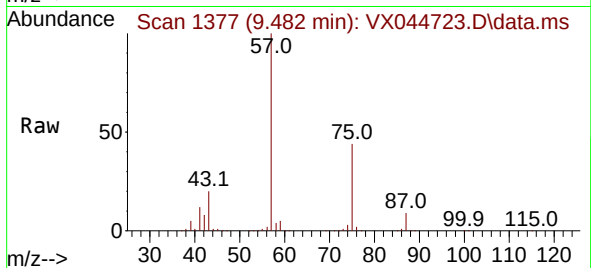
PB166212ZHE#01

Tgt Ion: 76 Resp: 6792

Ion Ratio Lower Upper

76 100

78 0.7 26.0 39.0#



#59

2-Hexanone

Concen: 43.260 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX044723.D

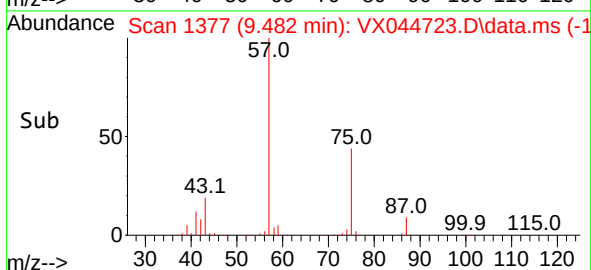
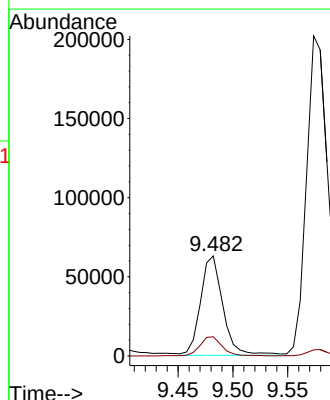
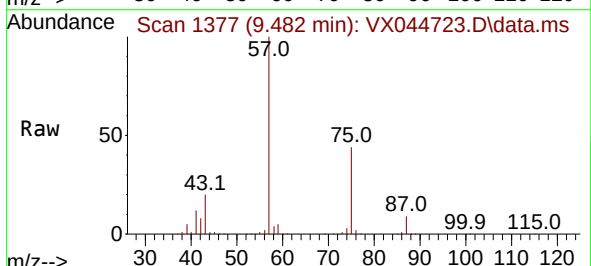
Acq: 27 Jan 2025 14:55

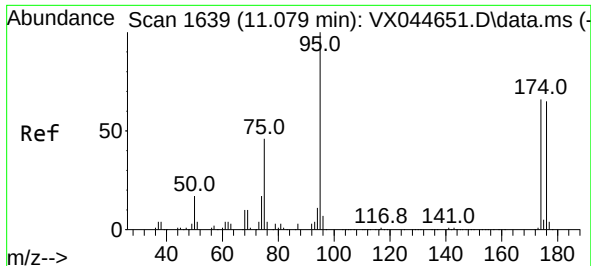
Tgt Ion: 43 Resp: 89158

Ion Ratio Lower Upper

43 100

58 19.7 27.8 83.3#

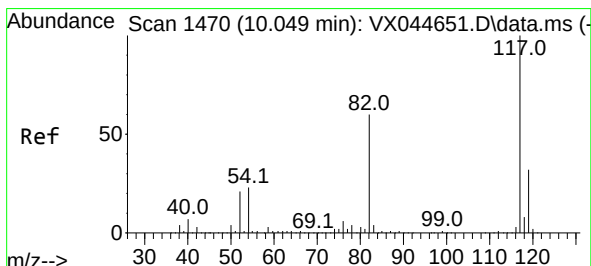
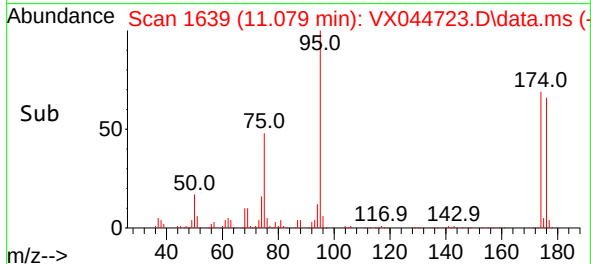
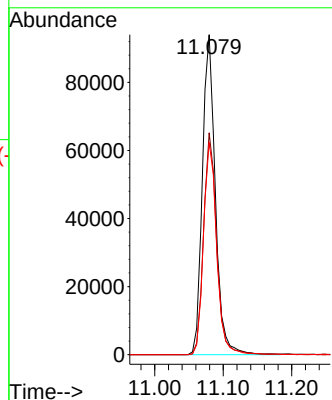
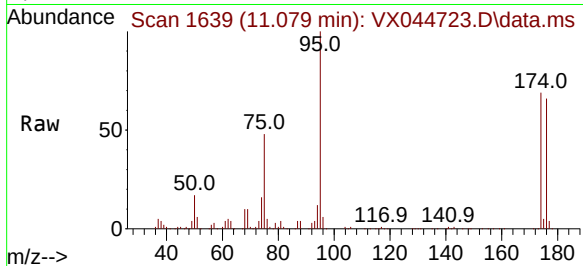




#62  
4-Bromofluorobenzene  
Concen: 51.375 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

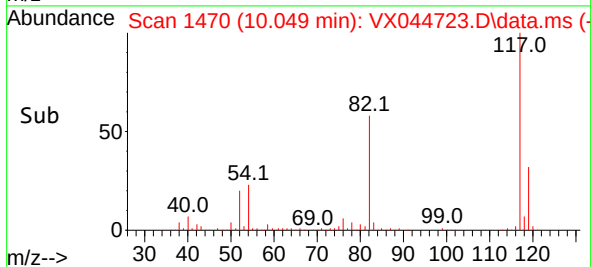
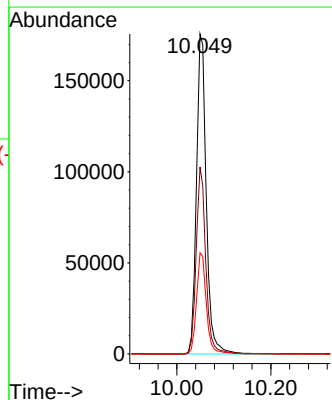
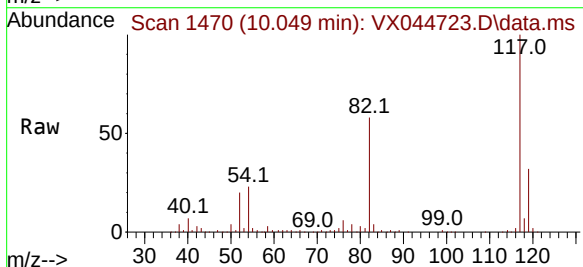
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#01

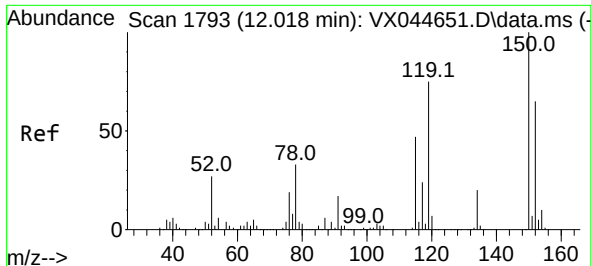
Tgt Ion: 95 Resp: 124135  
Ion Ratio Lower Upper  
95 100  
174 69.7 0.0 133.0  
176 67.4 0.0 129.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. 0.000 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Tgt Ion: 117 Resp: 256413  
Ion Ratio Lower Upper  
117 100  
82 58.4 47.6 71.4  
119 31.6 25.4 38.2

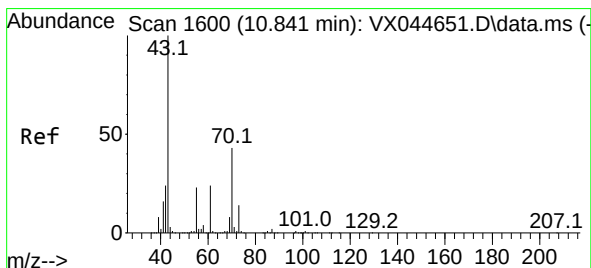
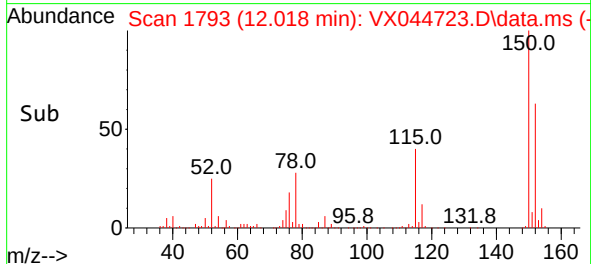
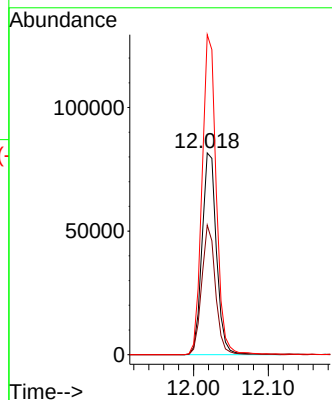
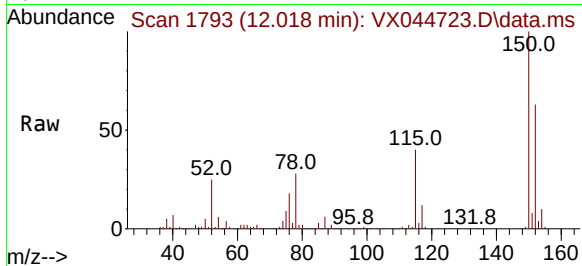




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

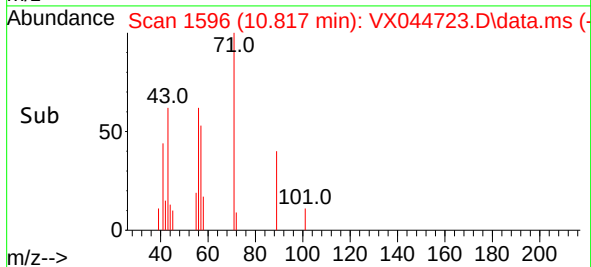
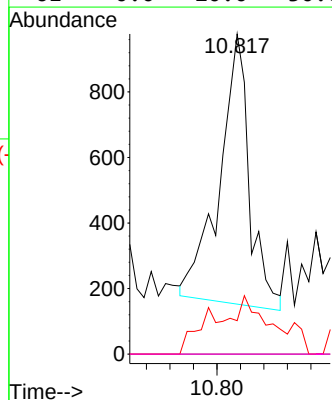
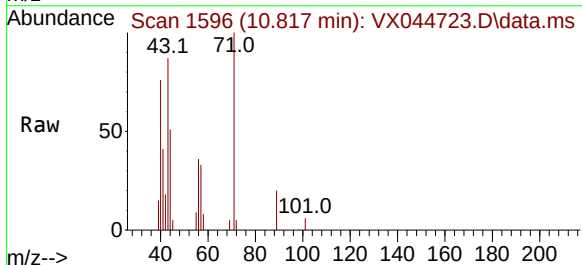
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#01

Tgt Ion:152 Resp: 109686  
Ion Ratio Lower Upper  
152 100  
115 61.2 43.8 131.4  
150 156.0 0.0 347.8

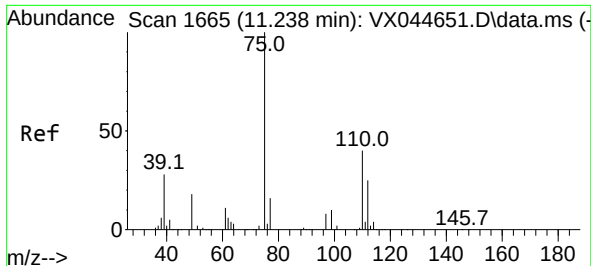


#74  
N-ethyl acetate  
Concen: 0.329 ug/l  
RT: 10.817 min Scan# 1596  
Delta R.T. -0.024 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Tgt Ion: 43 Resp: 1451  
Ion Ratio Lower Upper  
43 100  
70 0.0 35.2 52.8#  
55 28.5 19.0 28.4#  
61 0.0 20.0 30.0#



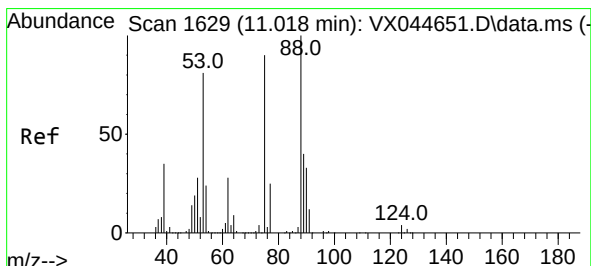
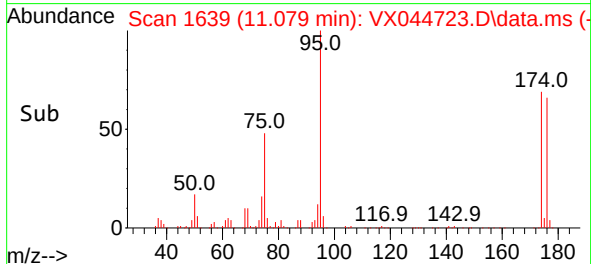
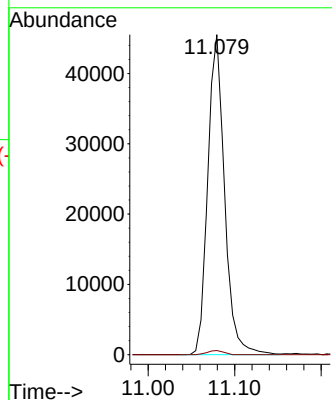
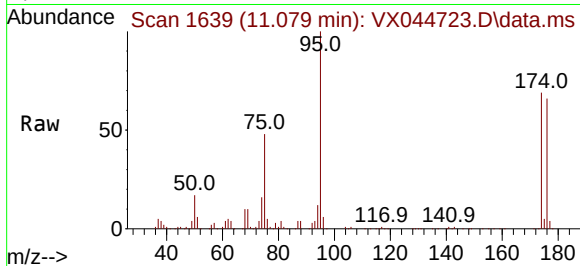




#76  
1,2,3-Trichloropropane  
Concen: 23.036 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#01

Tgt Ion: 75 Resp: 61319  
Ion Ratio Lower Upper  
75 100  
77 1.3 23.4 70.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 52.679 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX044723.D  
Acq: 27 Jan 2025 14:55

Tgt Ion: 75 Resp: 61319  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.3 111.5#  
89 0.1 37.4 56.0#

