

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX012725\  
 Data File : VX044724.D  
 Acq On : 27 Jan 2025 15:18  
 Operator : JC/MD  
 Sample : PB166212ZHE#02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB166212ZHE#02

Quant Time: Jan 28 04:13:41 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

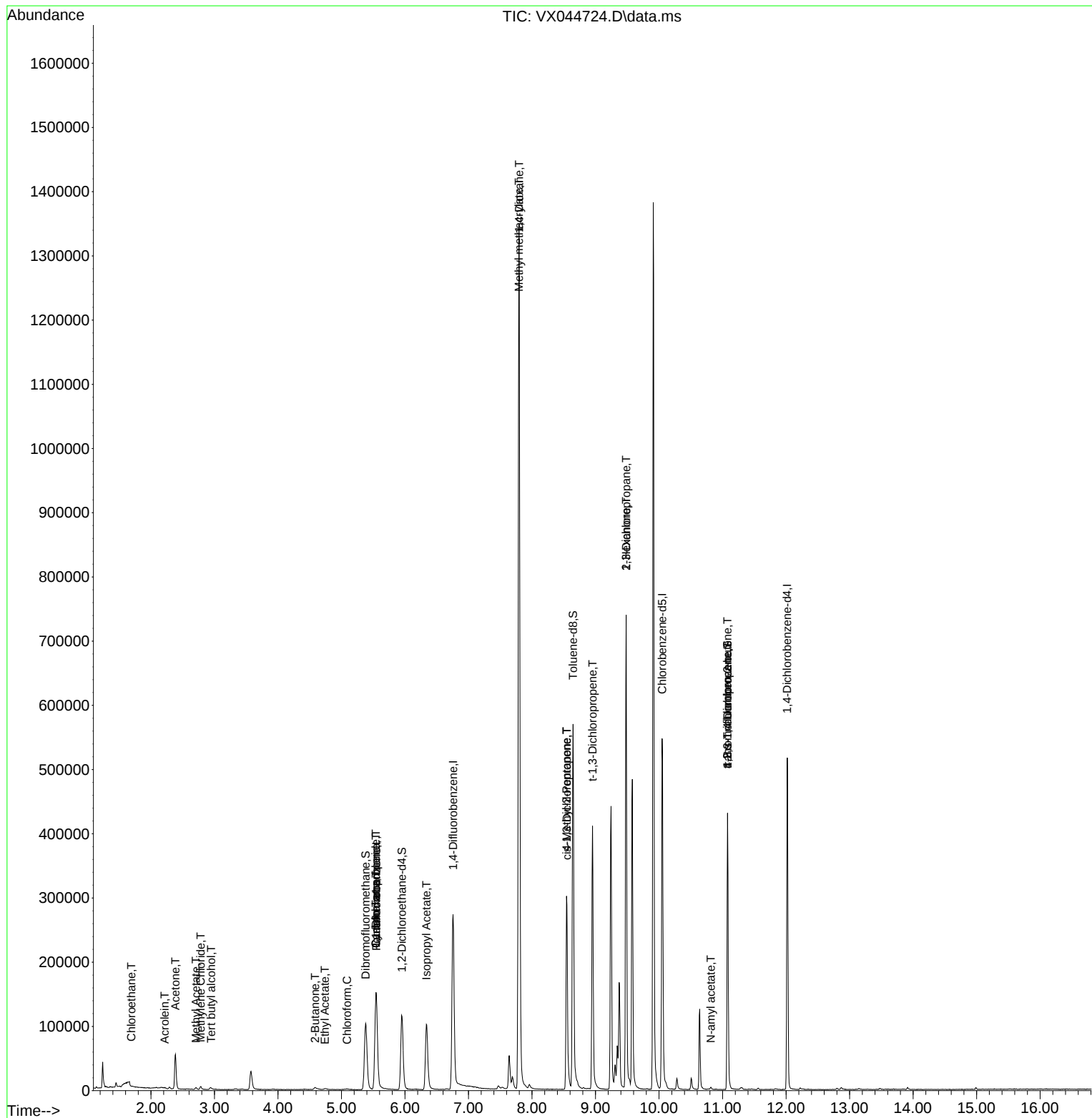
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 5.549          | 168  | 149280     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 295118     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.049         | 117  | 249832     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 106375     | 50.000   | ug/l   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 107748     | 47.819   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 95.640%  |        |          |
| 35) Dibromofluoromethane      | 5.379          | 113  | 94468      | 50.387   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 100.780% |        |          |
| 50) Toluene-d8                | 8.646          | 98   | 355410     | 54.367   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 108.740% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 123453     | 50.658   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = | 101.320% |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 6) Chloroethane               | 1.690          | 64   | 386        | 0.981    | ug/l # | 41       |
| 11) Tert butyl alcohol        | 2.946          | 59   | 1657       | 3.299    | ug/l # | 85       |
| 13) Acrolein                  | 2.215          | 56   | 412        | 1.743    | ug/l # | 80       |
| 16) Acetone                   | 2.385          | 43   | 60152      | 67.474   | ug/l   | 92       |
| 18) Methyl Acetate            | 2.708          | 43   | 3370       | 1.225    | ug/l   | 99       |
| 20) Methylene Chloride        | 2.782          | 84   | 2168       | 1.044    | ug/l   | 95       |
| 25) 2-Butanone                | 4.586          | 43   | 7167       | 5.407    | ug/l   | 98       |
| 30) Chloroform                | 5.086          | 83   | 1492       | 0.421    | ug/l # | 69       |
| 31) Cyclohexane               | 5.543          | 56   | 3618       | 1.275    | ug/l # | 10       |
| 36) 1,1-Dichloropropene       | 5.543          | 75   | 12722      | 4.875    | ug/l # | 49       |
| 37) Ethyl Acetate             | 4.739          | 43   | 3819       | 1.374    | ug/l # | 88       |
| 38) Carbon Tetrachloride      | 5.543          | 117  | 15181      | 5.171    | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.336          | 43   | 152587     | 29.844   | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.793          | 41   | 114039     | 48.052   | ug/l # | 42       |
| 49) 1,4-Dioxane               | 7.799          | 88   | 191        | 3.857    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.543          | 43   | 114849     | 40.648   | ug/l # | 50       |
| 53) t-1,3-Dichloropropene     | 8.951          | 75   | 879        | 0.268    | ug/l # | 44       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 55789      | 15.670   | ug/l # | 56       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 6873       | 2.015    | ug/l # | 42       |
| 59) 2-Hexanone                | 9.482          | 43   | 89103      | 42.865   | ug/l # | 50       |
| 74) N-amyl acetate            | 10.817         | 43   | 1814       | 0.424    | ug/l # | 47       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 60809      | 23.555   | ug/l # | 31       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 60809      | 53.867   | ug/l # | 12       |
| -----                         |                |      |            |          |        |          |

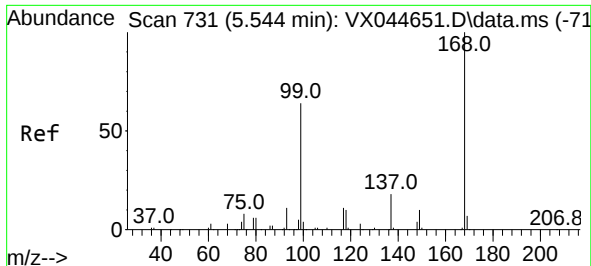
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Jan 16 01:16:09 2025  
Response via : Initial Calibration

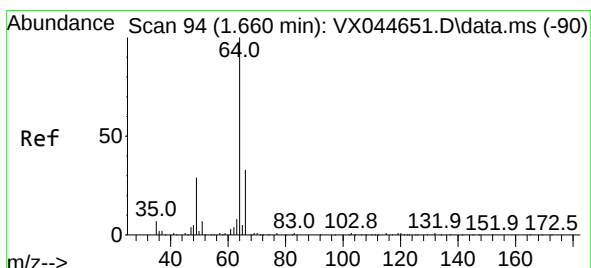
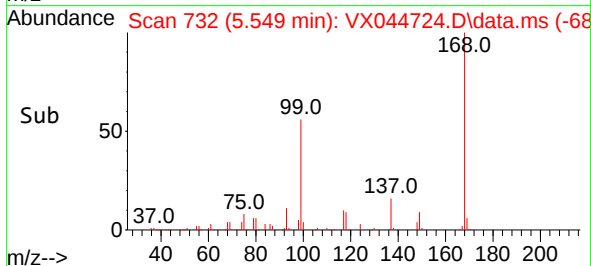
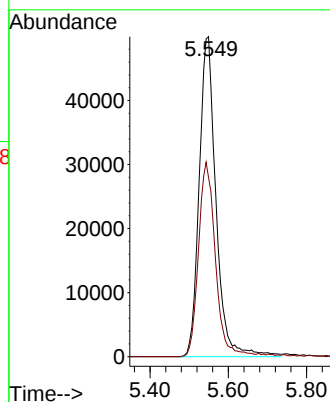
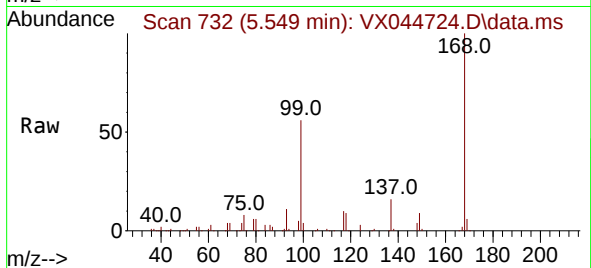




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.549 min Scan# 71  
Delta R.T. 0.005 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

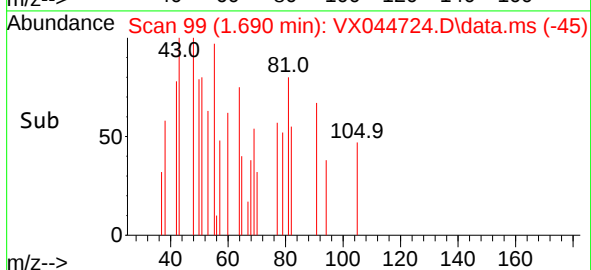
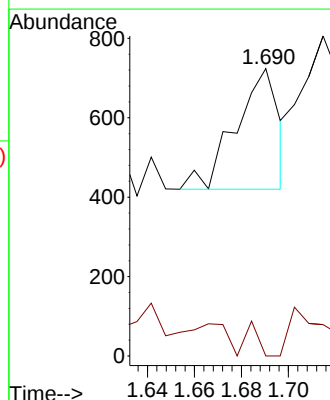
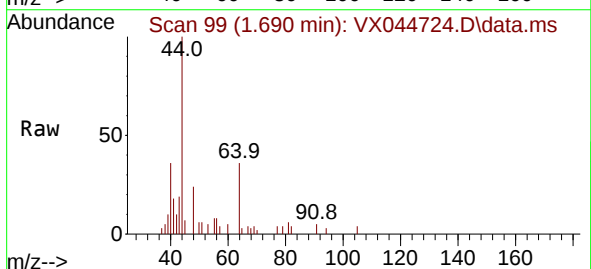
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#02

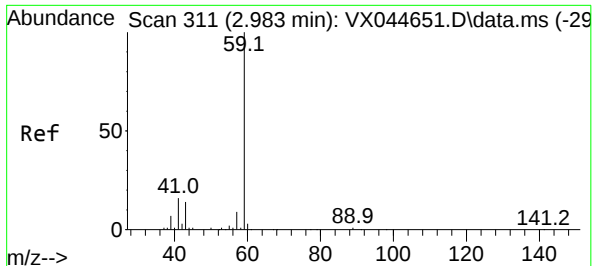
Tgt Ion:168 Resp: 149280  
Ion Ratio Lower Upper  
168 100  
99 56.0 51.1 76.7



#6  
Chloroethane  
Concen: 0.981 ug/l  
RT: 1.690 min Scan# 99  
Delta R.T. 0.030 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

Tgt Ion: 64 Resp: 386  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.6 39.8#





#11

Tert butyl alcohol

Concen: 3.299 ug/l

RT: 2.946 min Scan# 305

Delta R.T. -0.037 min

Lab File: VX044724.D

Acq: 27 Jan 2025 15:18

Instrument :

MSVOA\_X

ClientSampleId :

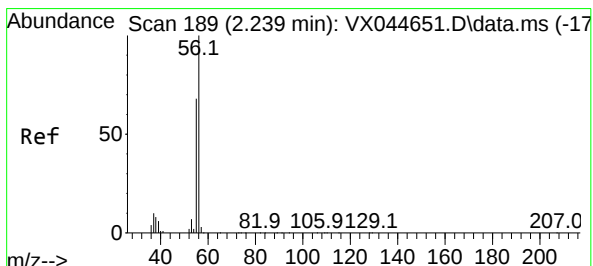
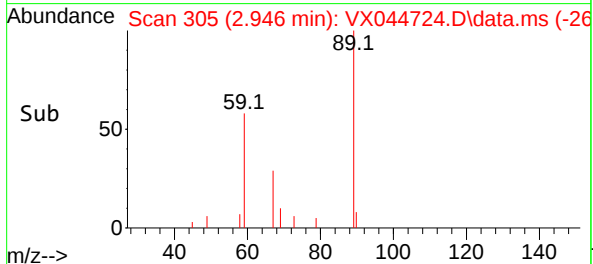
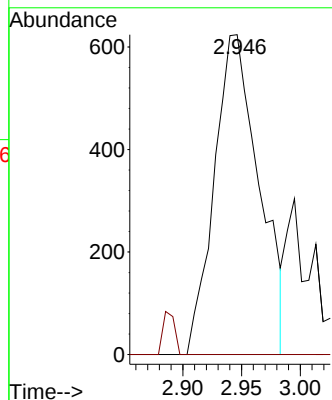
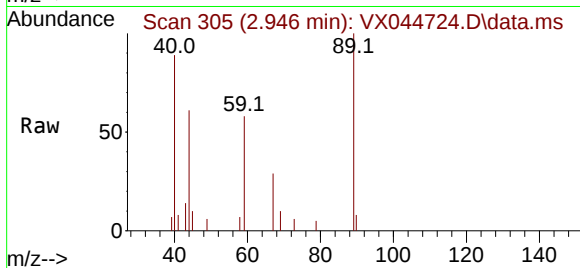
PB166212ZHE#02

Tgt Ion: 59 Resp: 1657

Ion Ratio Lower Upper

59 100

57 0.0 3.9 5.9#



#13

Acrolein

Concen: 1.743 ug/l

RT: 2.215 min Scan# 185

Delta R.T. -0.025 min

Lab File: VX044724.D

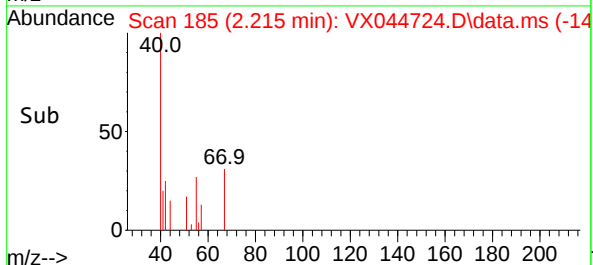
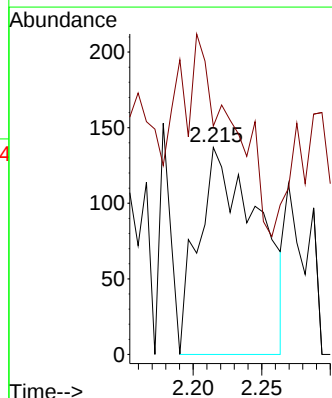
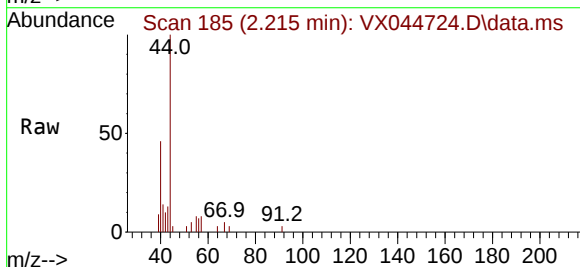
Acq: 27 Jan 2025 15:18

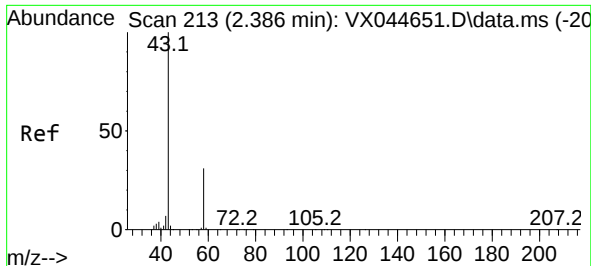
Tgt Ion: 56 Resp: 412

Ion Ratio Lower Upper

56 100

55 85.4 55.1 82.7#

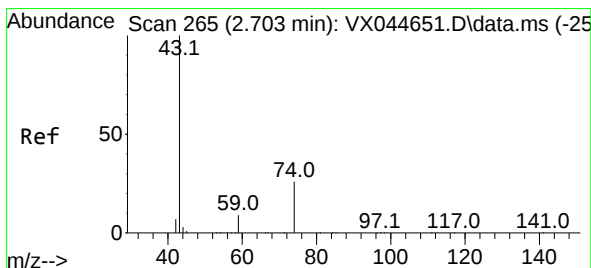
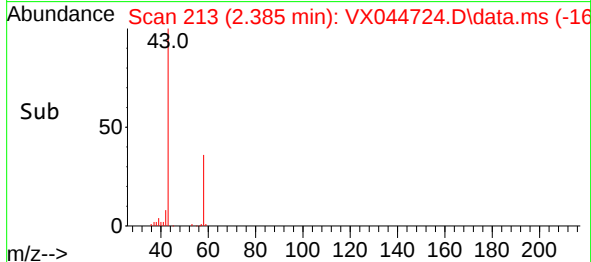
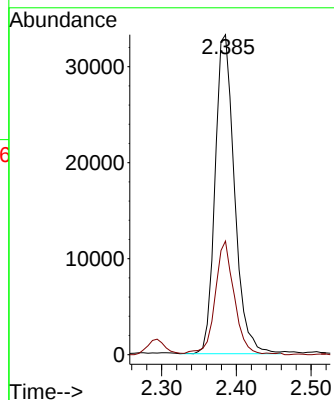
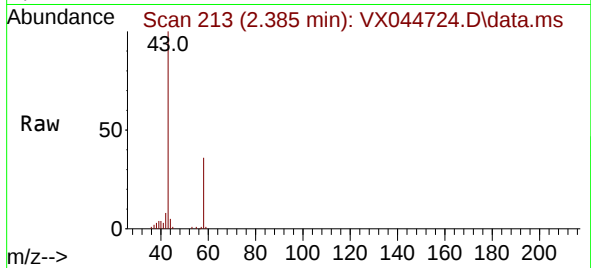




#16  
Acetone  
Concen: 67.474 ug/l  
RT: 2.385 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

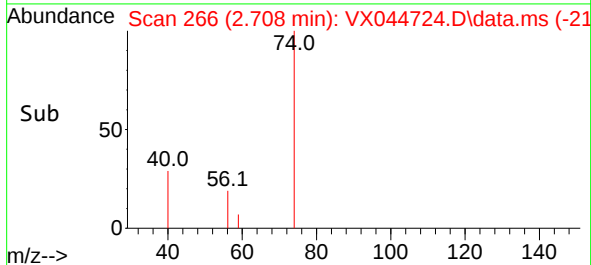
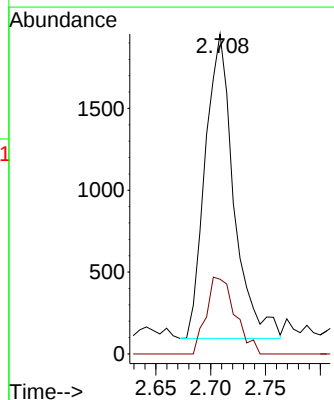
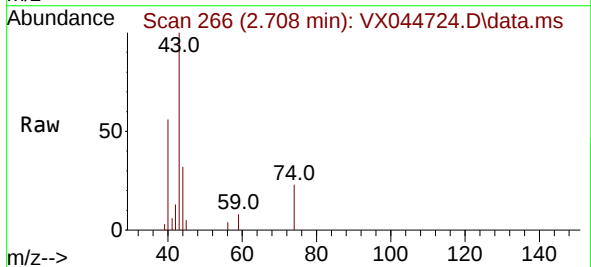
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#02

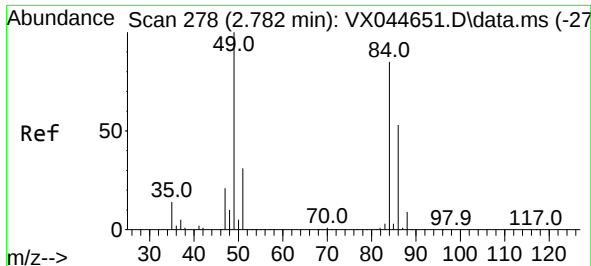
Tgt Ion: 43 Resp: 60152  
Ion Ratio Lower Upper  
43 100  
58 35.2 24.6 37.0



#18  
Methyl Acetate  
Concen: 1.225 ug/l  
RT: 2.708 min Scan# 266  
Delta R.T. 0.006 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

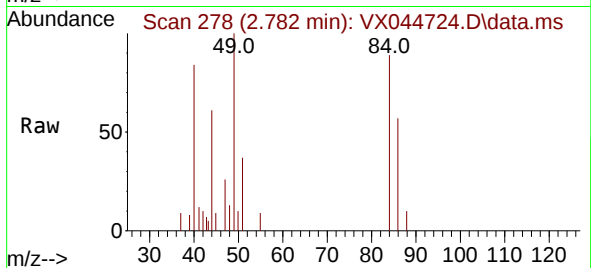
Tgt Ion: 43 Resp: 3370  
Ion Ratio Lower Upper  
43 100  
74 25.4 19.8 29.8



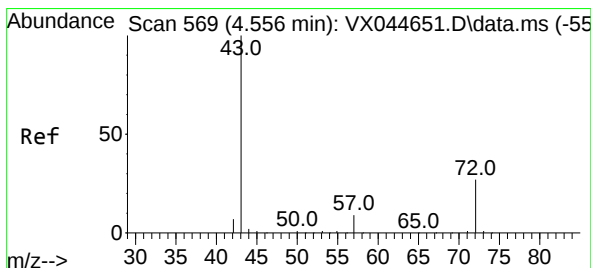
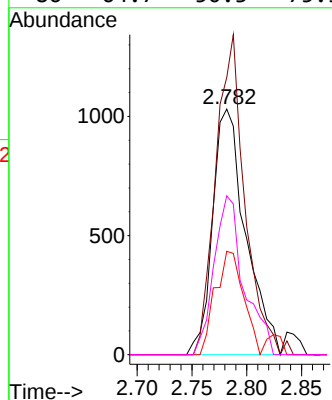


#20  
Methylene Chloride  
Concen: 1.044 ug/l  
RT: 2.782 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#02

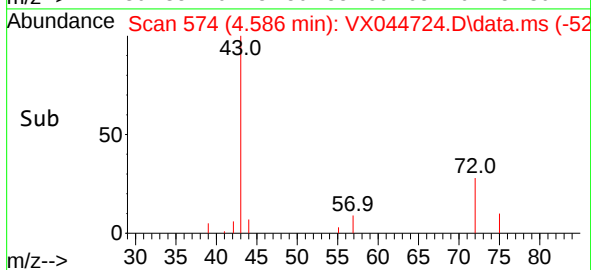
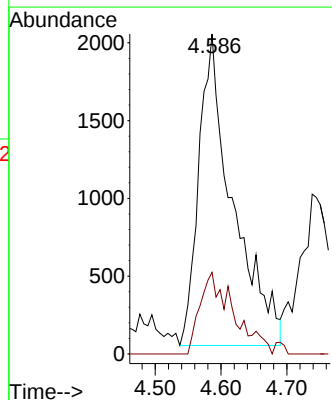
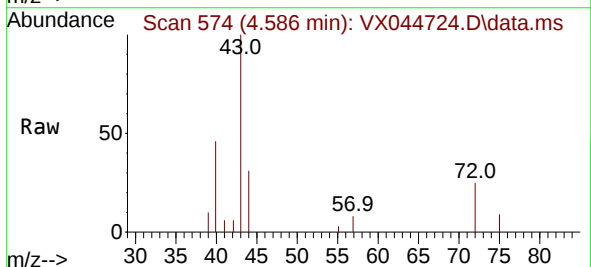


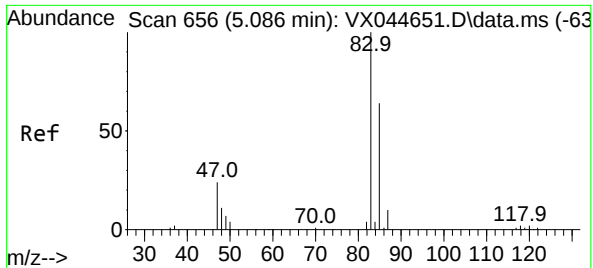
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|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 2168  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 112.9 | 94.2  | 141.4 |
| 51       | 42.1  | 28.8  | 43.2  |
| 86       | 64.7  | 50.3  | 75.5  |



#25  
2-Butanone  
Concen: 5.407 ug/l  
RT: 4.586 min Scan# 574  
Delta R.T. 0.030 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 7167  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 26.2  | 21.7  | 32.5  |

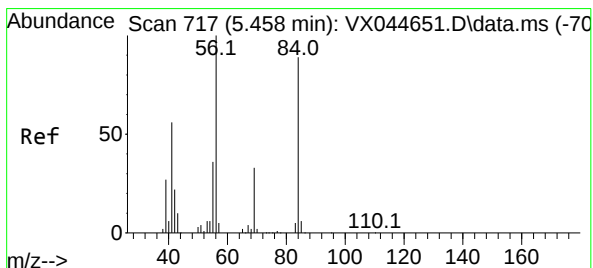
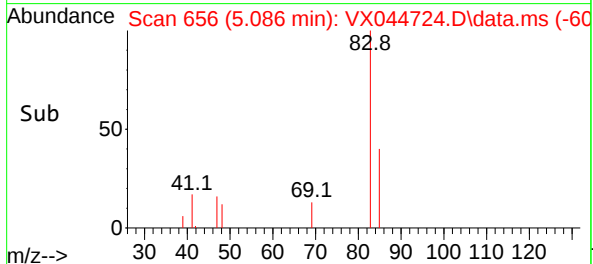
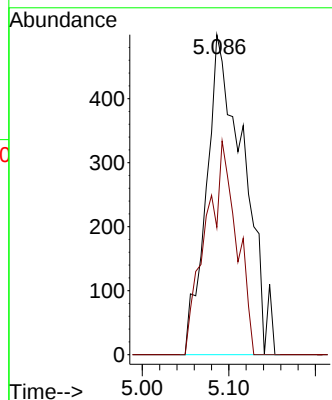
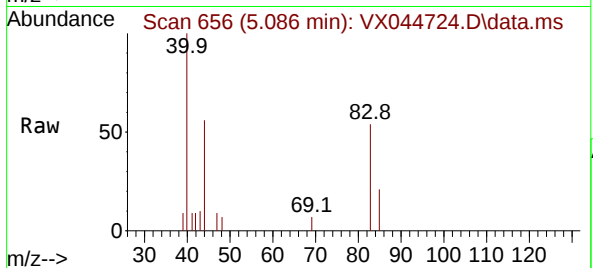




#30  
Chloroform  
Concen: 0.421 ug/l  
RT: 5.086 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

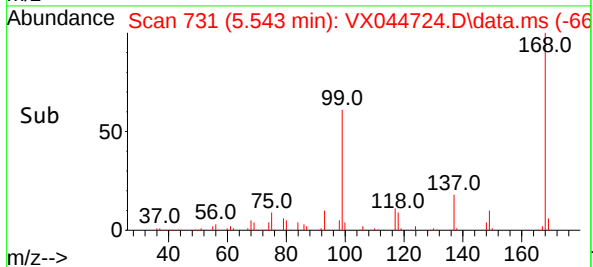
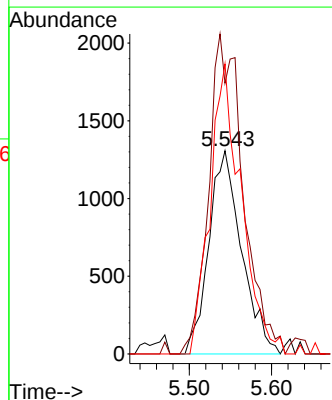
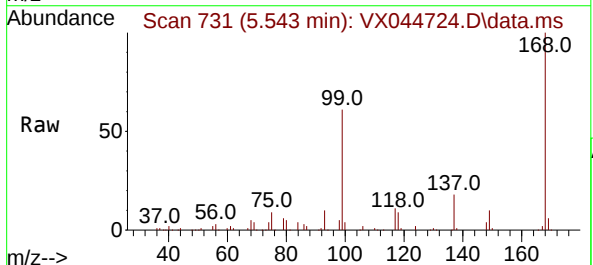
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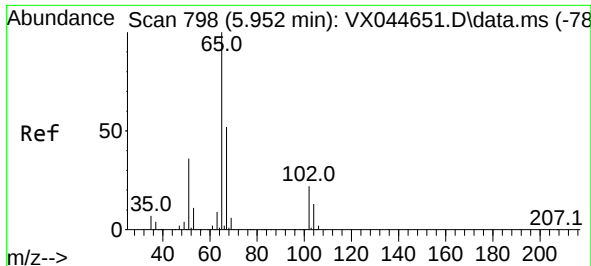
Tgt Ion: 83 Resp: 1492  
Ion Ratio Lower Upper  
83 100  
85 39.8 51.2 76.8#



#31  
Cyclohexane  
Concen: 1.275 ug/l  
RT: 5.543 min Scan# 731  
Delta R.T. 0.085 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

Tgt Ion: 56 Resp: 3618  
Ion Ratio Lower Upper  
56 100  
69 133.3 26.8 40.2#  
84 142.8 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 47.819 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX044724.D

Acq: 27 Jan 2025 15:18

Instrument :

MSVOA\_X

ClientSampleId :

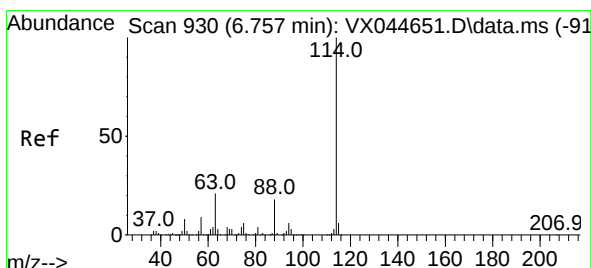
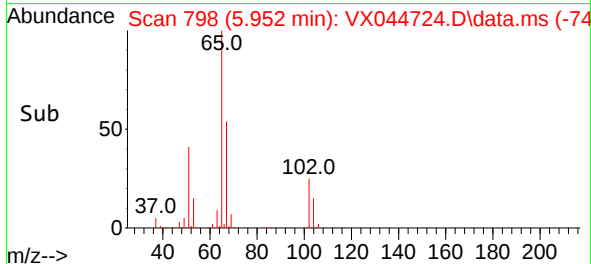
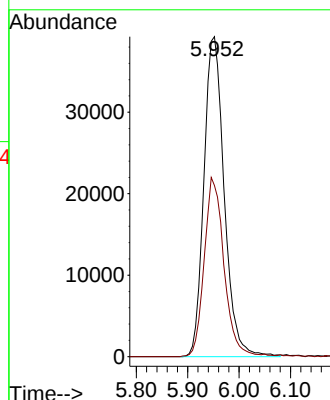
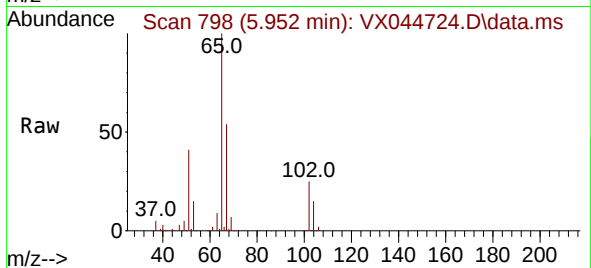
PB166212ZHE#02

Tgt Ion: 65 Resp: 107748

Ion Ratio Lower Upper

65 100

67 54.7 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044724.D

Acq: 27 Jan 2025 15:18

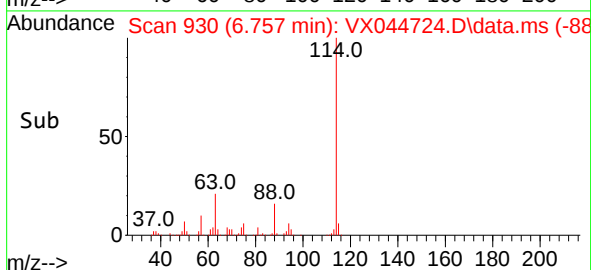
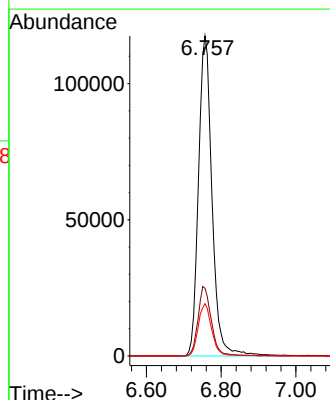
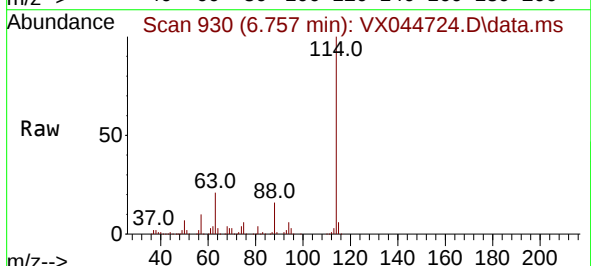
Tgt Ion: 114 Resp: 295118

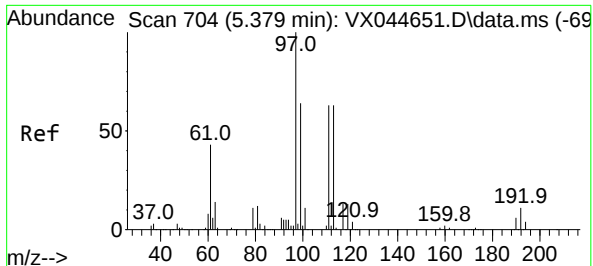
Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.0

88 16.4 0.0 35.4

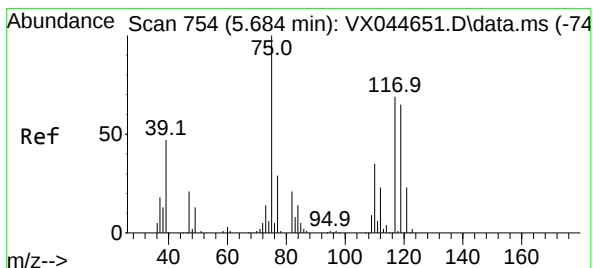
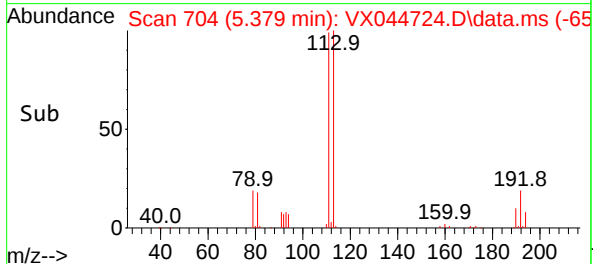
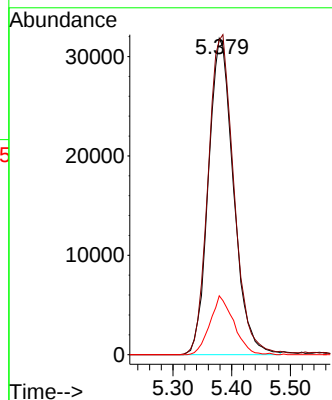
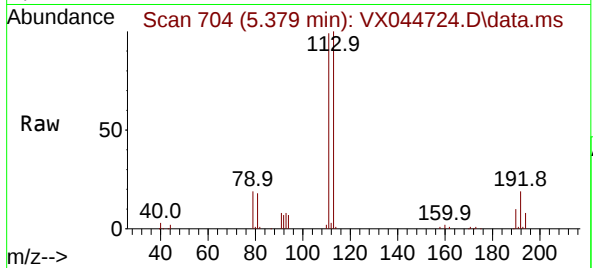




#35  
Dibromofluoromethane  
Concen: 50.387 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. -0.000 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

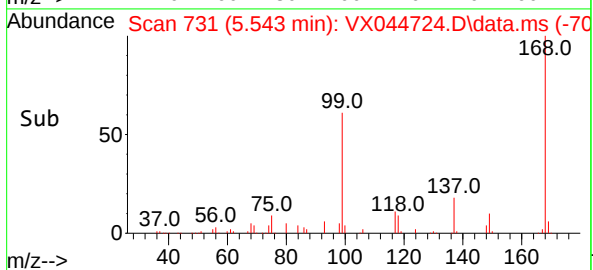
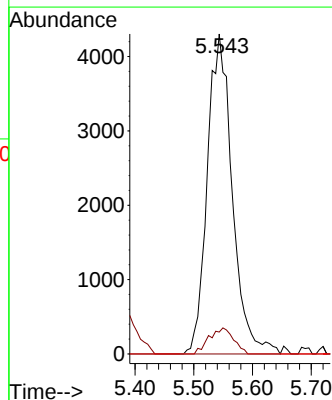
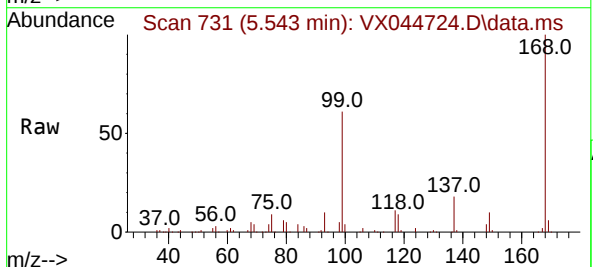
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#02

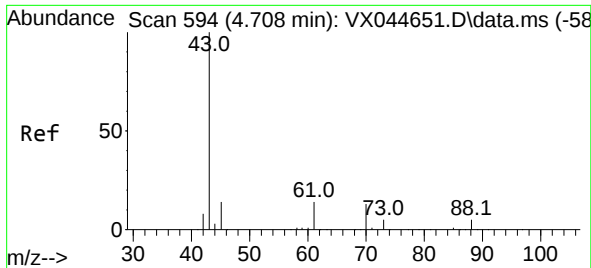
Tgt Ion:113 Resp: 94468  
Ion Ratio Lower Upper  
113 100  
111 104.0 81.6 122.4  
192 17.7 14.4 21.6



#36  
1,1-Dichloropropene  
Concen: 4.875 ug/l  
RT: 5.543 min Scan# 731  
Delta R.T. -0.140 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

Tgt Ion: 75 Resp: 12722  
Ion Ratio Lower Upper  
75 100  
110 8.0 17.9 53.8#  
77 0.0 24.5 36.7#

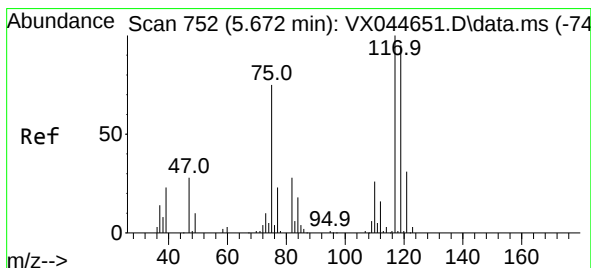
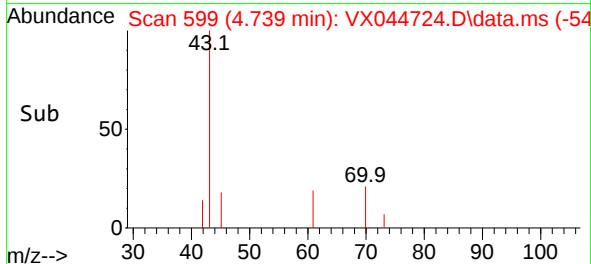
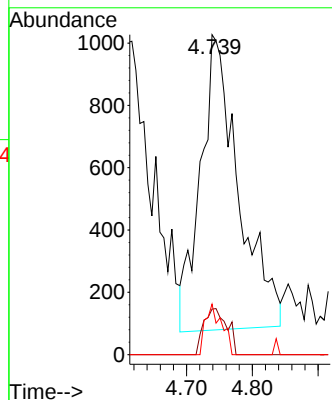
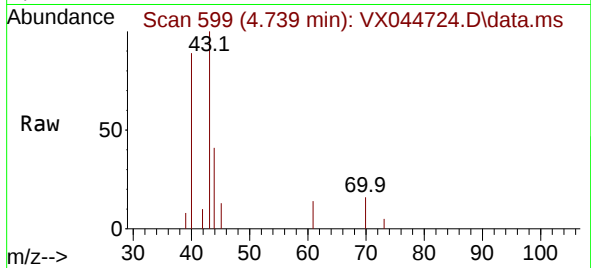




#37  
Ethyl Acetate  
Concen: 1.374 ug/l  
RT: 4.739 min Scan# 51  
Delta R.T. 0.030 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

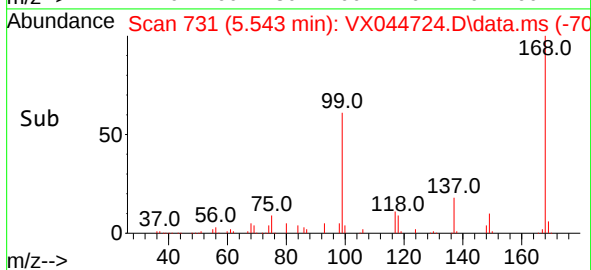
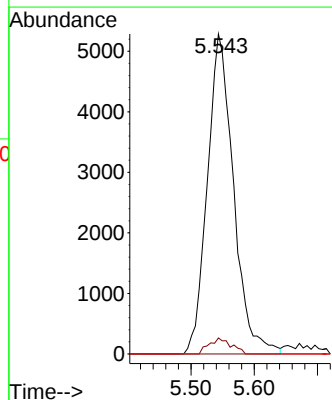
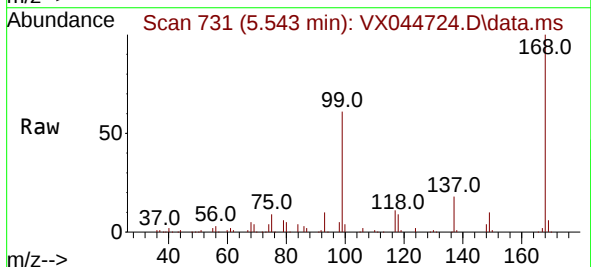
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#02

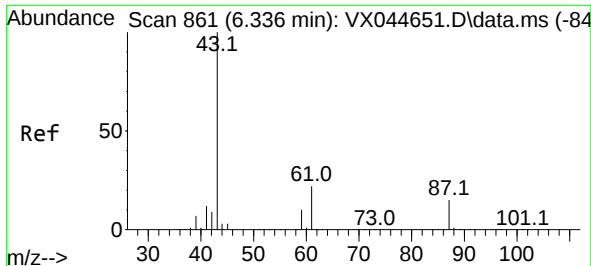
Tgt Ion: 43 Resp: 3819  
Ion Ratio Lower Upper  
43 100  
61 9.6 10.9 16.3#  
70 7.4 10.1 15.1#



#38  
Carbon Tetrachloride  
Concen: 5.171 ug/l  
RT: 5.543 min Scan# 731  
Delta R.T. -0.128 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

Tgt Ion: 117 Resp: 15181  
Ion Ratio Lower Upper  
117 100  
119 5.0 76.0 114.0#  
121 0.0 24.6 36.8#

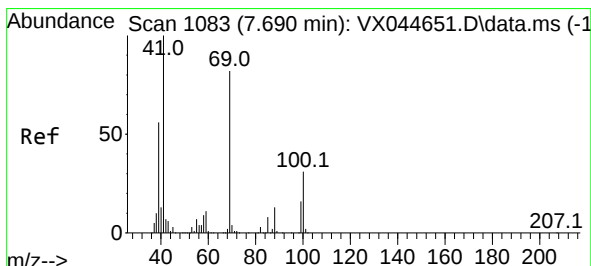
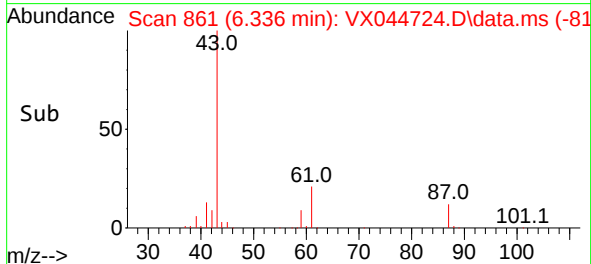
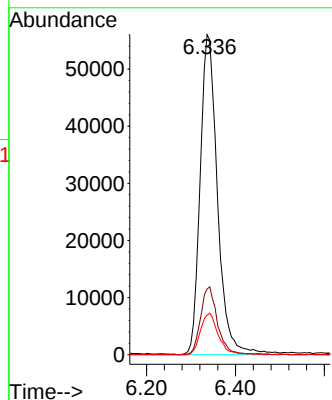
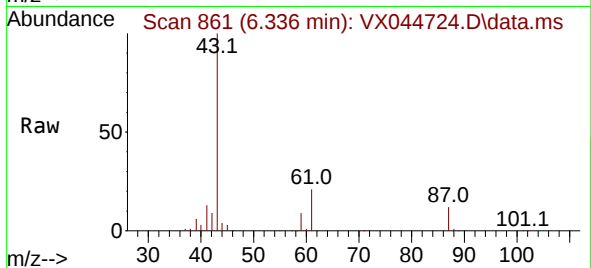




#43  
Isopropyl Acetate  
Concen: 29.844 ug/l  
RT: 6.336 min Scan# 80  
Delta R.T. -0.000 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

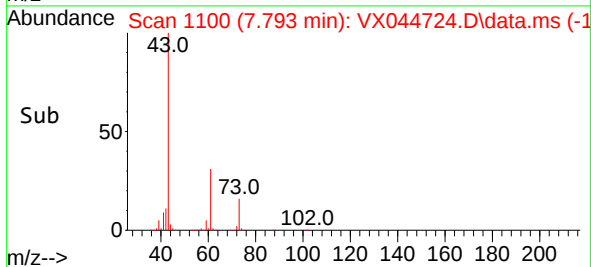
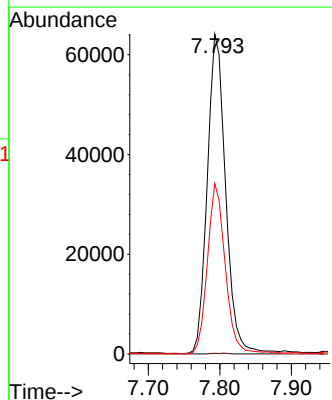
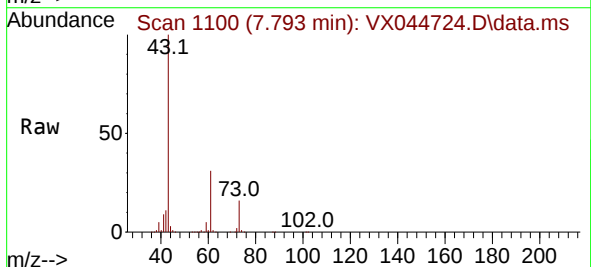
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#02

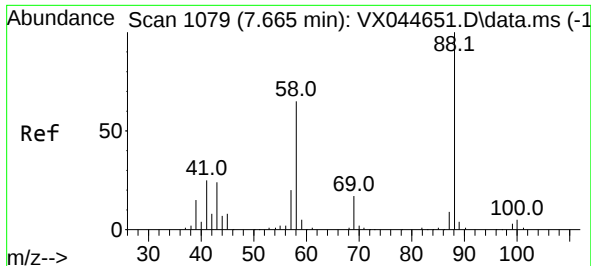
Tgt Ion: 43 Resp: 152587  
Ion Ratio Lower Upper  
43 100  
61 20.4 16.6 24.8  
87 13.2 11.0 16.6



#48  
Methyl methacrylate  
Concen: 48.052 ug/l  
RT: 7.793 min Scan# 1100  
Delta R.T. 0.103 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

Tgt Ion: 41 Resp: 114039  
Ion Ratio Lower Upper  
41 100  
69 0.2 66.8 100.2#  
39 52.3 47.4 71.0





#49

1,4-Dioxane

Concen: 3.857 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.134 min

Lab File: VX044724.D

Acq: 27 Jan 2025 15:18

Instrument :

MSVOA\_X

ClientSampleId :

PB166212ZHE#02

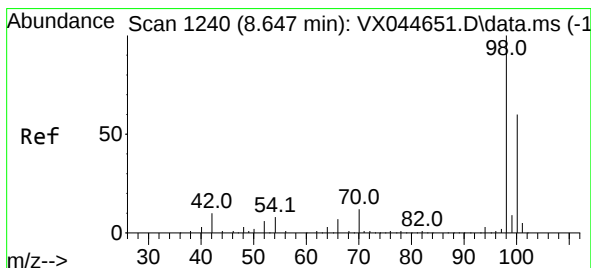
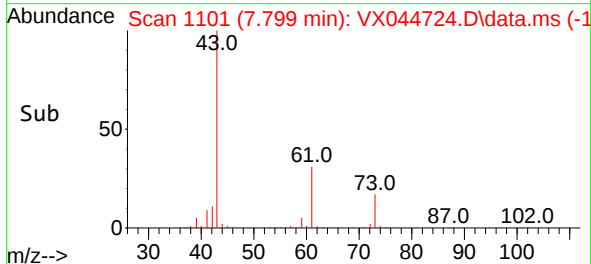
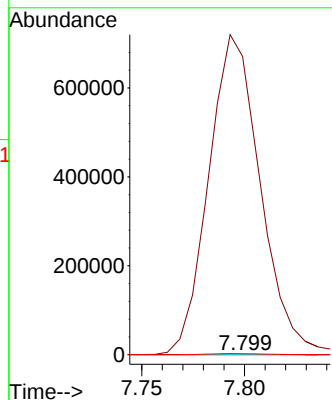
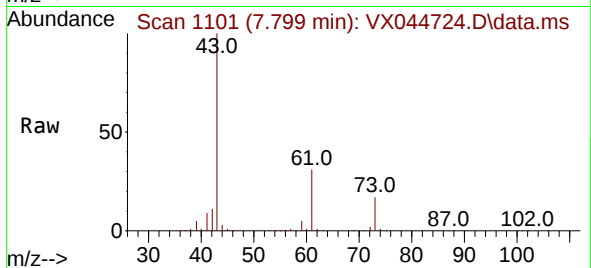
Tgt Ion: 88 Resp: 191

Ion Ratio Lower Upper

88 100

43 671486.4 27.0 40.4#

58 2514.1 55.8 83.8#



#50

Toluene-d8

Concen: 54.367 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX044724.D

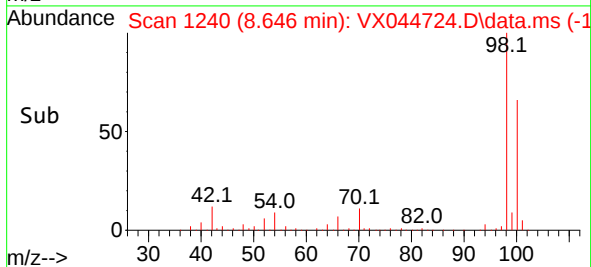
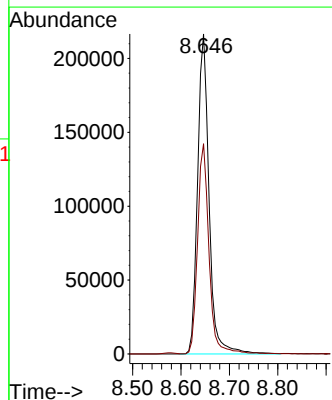
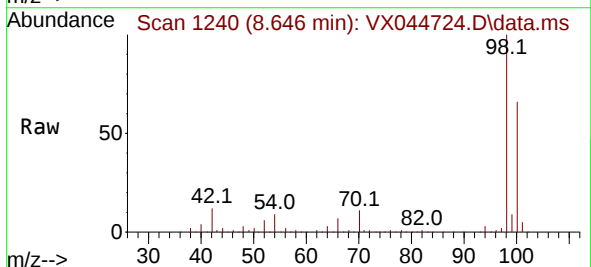
Acq: 27 Jan 2025 15:18

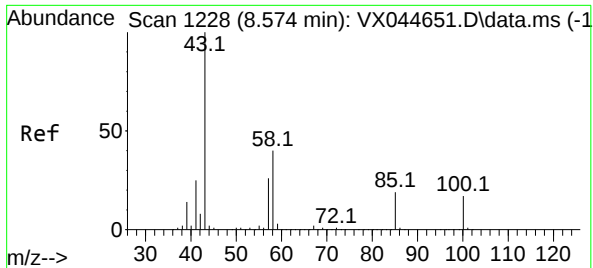
Tgt Ion: 98 Resp: 355410

Ion Ratio Lower Upper

98 100

100 65.3 53.2 79.8

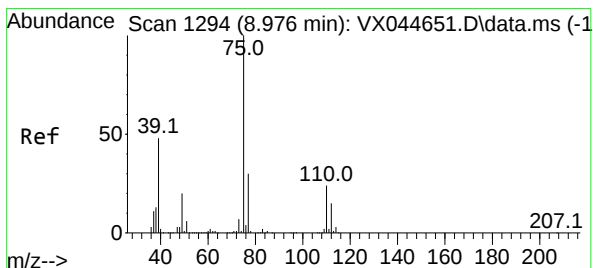
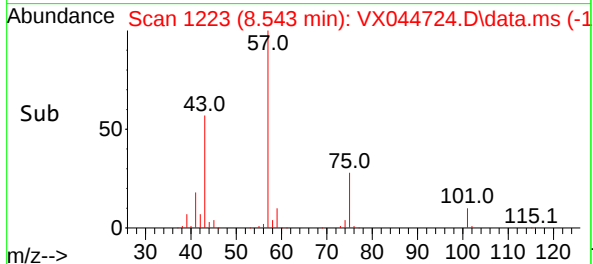
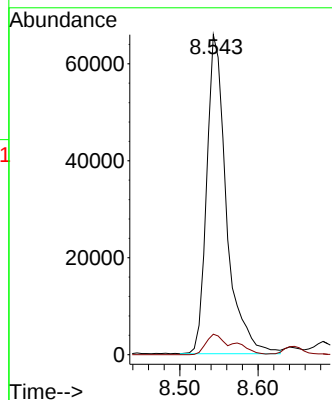
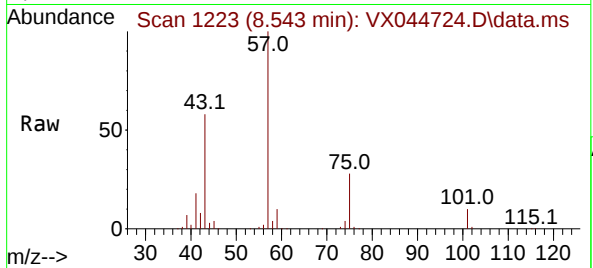




#51  
4-Methyl-2-Pentanone  
Concen: 40.648 ug/l  
RT: 8.543 min Scan# 11  
Delta R.T. -0.031 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

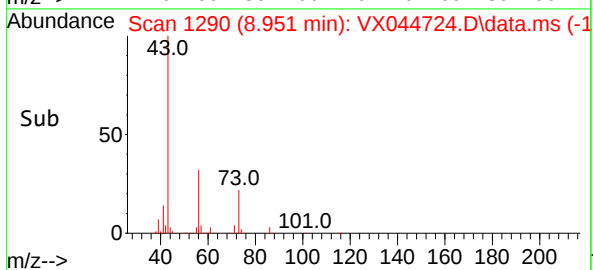
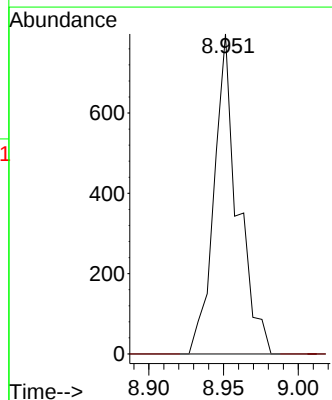
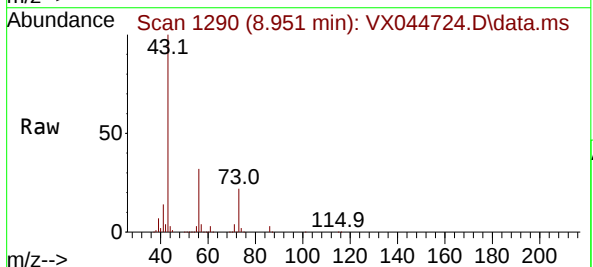
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#02

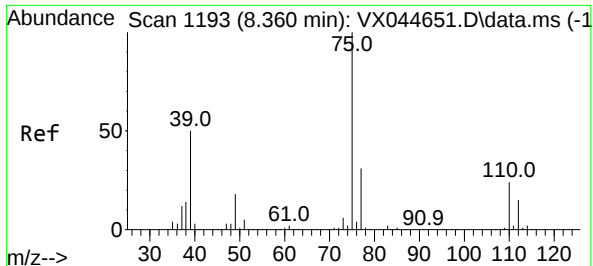
Tgt Ion: 43 Resp: 114849  
Ion Ratio Lower Upper  
43 100  
58 8.9 31.9 47.9#



#53  
t-1,3-Dichloropropene  
Concen: 0.268 ug/l  
RT: 8.951 min Scan# 1290  
Delta R.T. -0.025 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

Tgt Ion: 75 Resp: 879  
Ion Ratio Lower Upper  
75 100  
77 0.0 24.4 36.6#

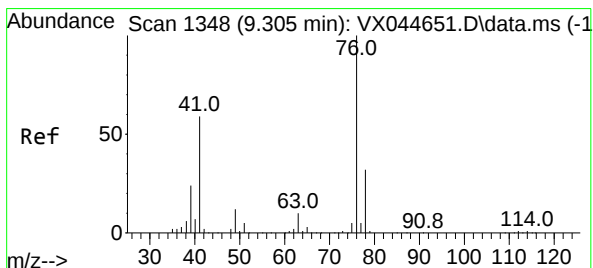
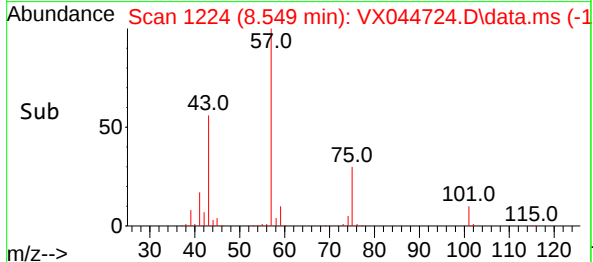
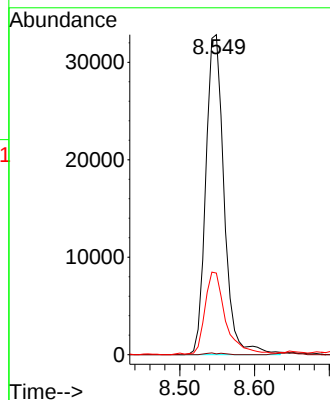
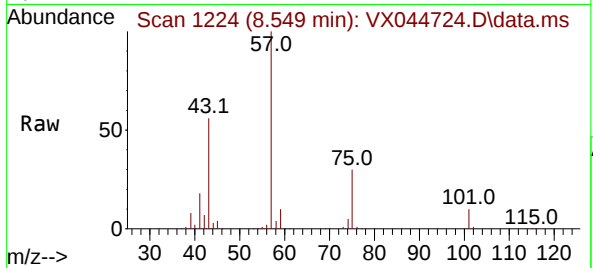




#54  
cis-1,3-Dichloropropene  
Concen: 15.670 ug/l  
RT: 8.549 min Scan# 1193  
Delta R.T. 0.189 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

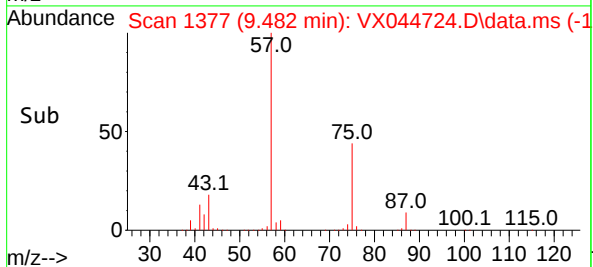
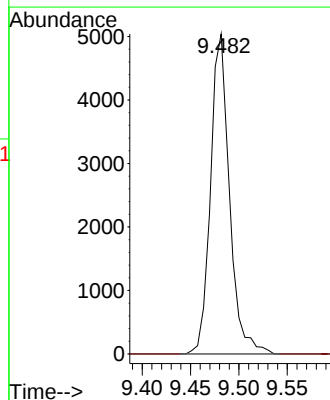
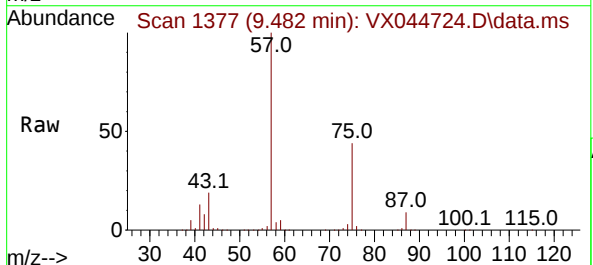
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#02

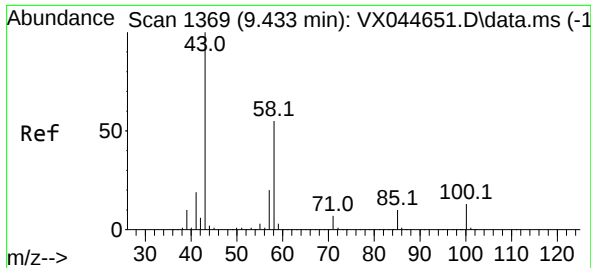
Tgt Ion: 75 Resp: 55789  
Ion Ratio Lower Upper  
75 100  
77 0.3 25.1 37.7#  
39 25.0 40.3 60.5#



#57  
1,3-Dichloropropane  
Concen: 2.015 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.177 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

Tgt Ion: 76 Resp: 6873  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.0 39.0#

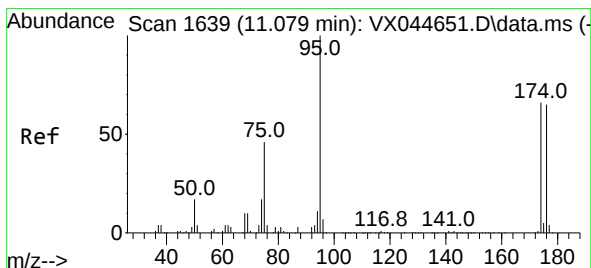
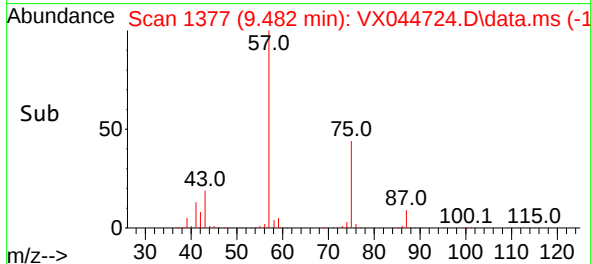
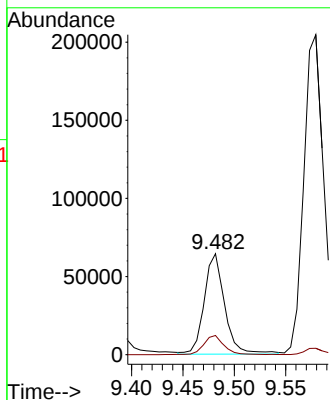
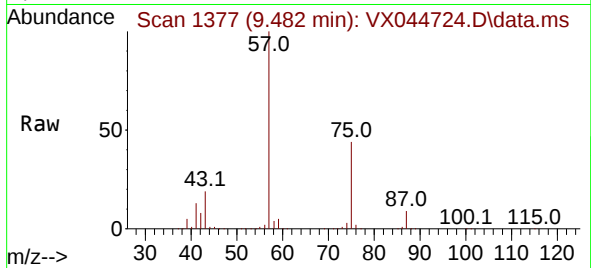




#59  
2-Hexanone  
Concen: 42.865 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.049 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

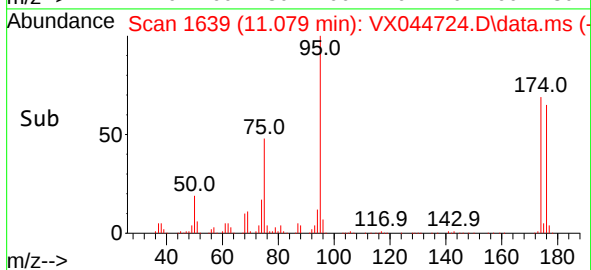
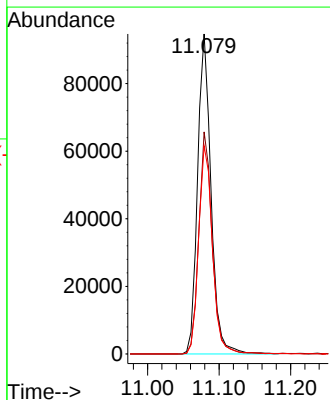
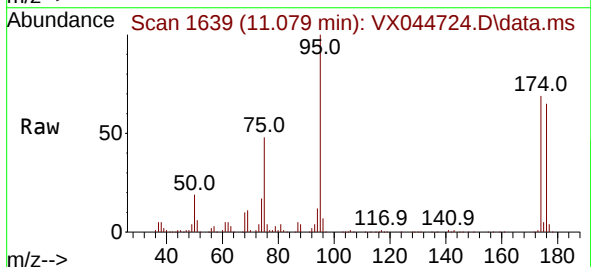
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#02

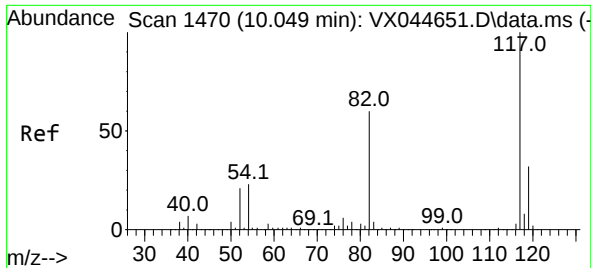
Tgt Ion: 43 Resp: 89103  
Ion Ratio Lower Upper  
43 100  
58 19.3 27.8 83.3#



#62  
4-Bromofluorobenzene  
Concen: 50.658 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

Tgt Ion: 95 Resp: 123453  
Ion Ratio Lower Upper  
95 100  
174 69.3 0.0 133.0  
176 67.1 0.0 129.4

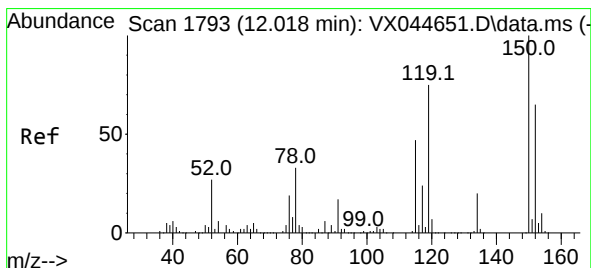
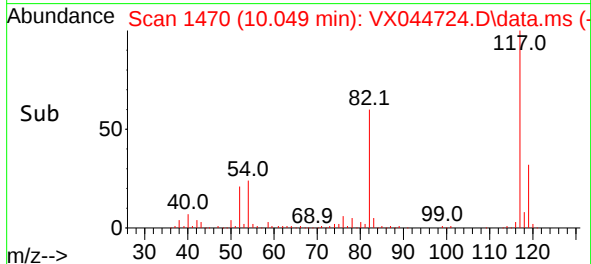
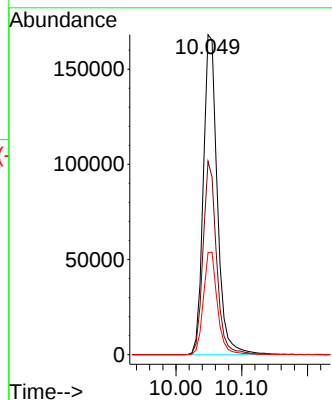
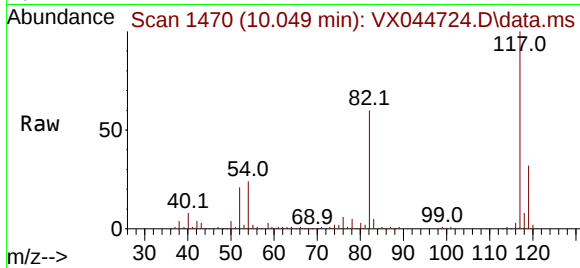




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

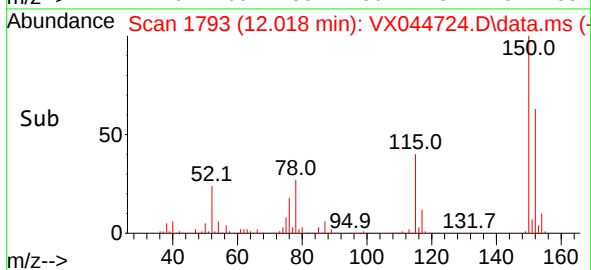
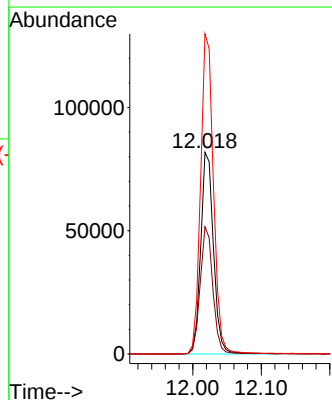
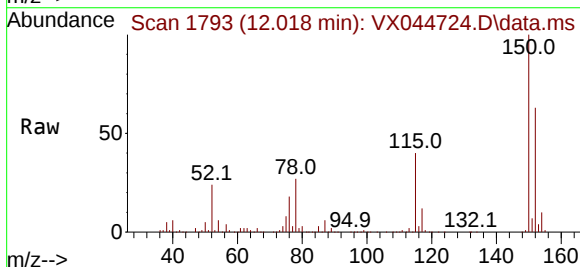
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#02

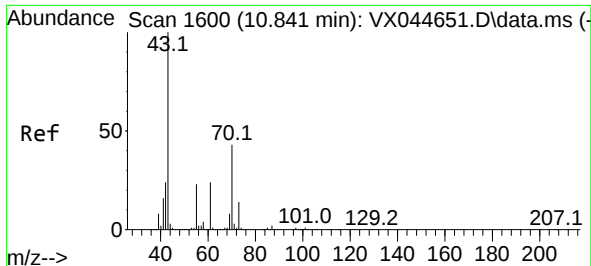
Tgt Ion:117 Resp: 249832  
Ion Ratio Lower Upper  
117 100  
82 60.4 47.6 71.4  
119 31.9 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. -0.000 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

Tgt Ion:152 Resp: 106375  
Ion Ratio Lower Upper  
152 100  
115 62.7 43.8 131.4  
150 159.6 0.0 347.8

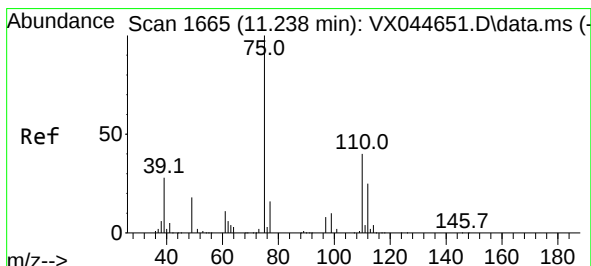
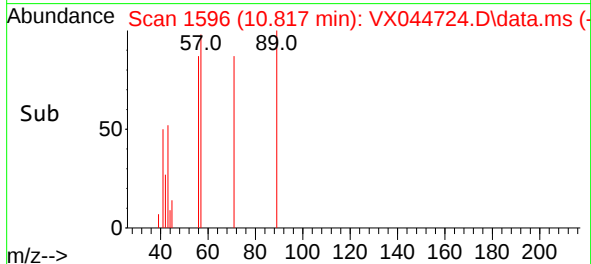
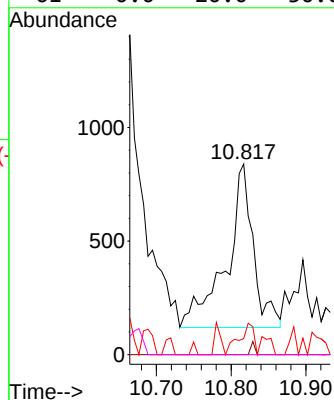
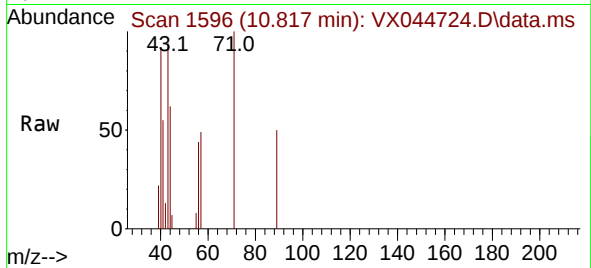




#74  
N-amy1 acetate  
Concen: 0.424 ug/l  
RT: 10.817 min Scan# 1639  
Delta R.T. -0.025 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

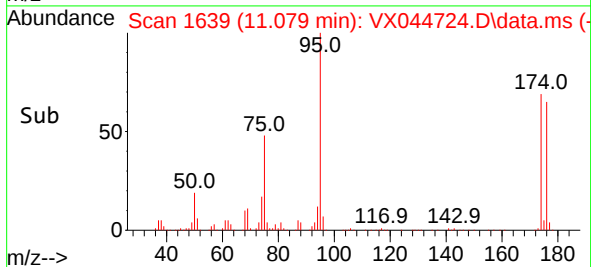
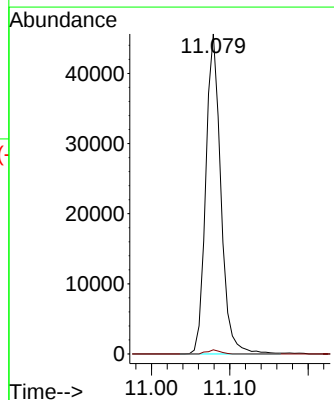
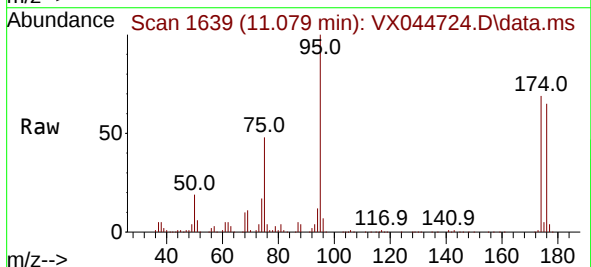
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB166212ZHE#02

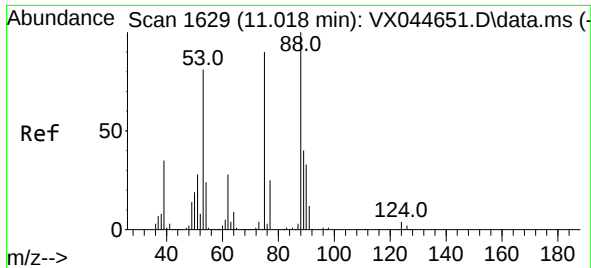
|             |                 |
|-------------|-----------------|
| Tgt Ion: 43 | Resp: 1814      |
| Ion Ratio   | Lower Upper     |
| 43          | 100             |
| 70          | 0.0 35.2 52.8#  |
| 55          | 10.4 19.0 28.4# |
| 61          | 0.0 20.0 30.0#  |



#76  
1,2,3-Trichloropropane  
Concen: 23.555 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX044724.D  
Acq: 27 Jan 2025 15:18

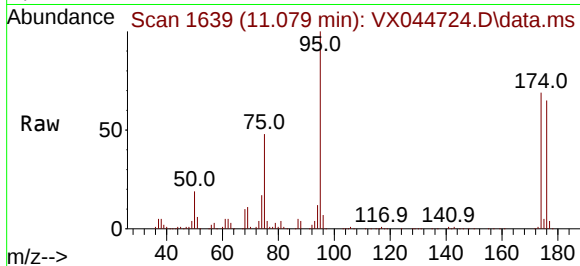
|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 60809    |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 77          | 1.1 23.4 70.2# |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 53.867 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX044724.D  
 Acq: 27 Jan 2025 15:18

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB166212ZHE#02



Tgt Ion: 75 Resp: 60809  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 74.3 111.5#  
 89 0.0 37.4 56.0#

