

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102624\  
 Data File : VX043553.D  
 Acq On : 26 Oct 2024 06:20  
 Operator : JC/MD  
 Sample : P4487-08  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 53 Sample Multiplier: 1

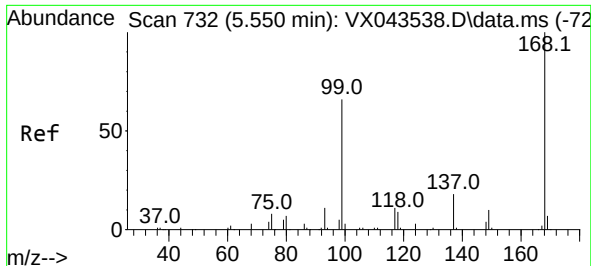
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 26 07:02:33 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102624W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 26 04:43:47 2024  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.544          | 168  | 137270              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 262081              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 220785              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 94723               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 120828              | 55.489 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 110.980% |        |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 88581               | 50.759 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 101.520% |        |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 299221              | 49.450 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 98.900%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 107156              | 48.484 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 96.960%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        | Qvalue |          |
| 5) Bromomethane               | 1.599          | 94   | 249                 | 0.359  | ug/l # | 67       |
| 6) Chloroethane               | 1.636          | 64   | 229                 | 0.394  | ug/l # | 1        |
| 11) Tert butyl alcohol        | 2.941          | 59   | 7207                | 15.496 | ug/l # | 100      |
| 13) Acrolein                  | 2.245          | 56   | 297                 | 0.810  | ug/l   | 92       |
| 16) Acetone                   | 2.392          | 43   | 31897               | 34.317 | ug/l   | 95       |
| 18) Methyl Acetate            | 2.715          | 43   | 3145                | 1.126  | ug/l   | 94       |
| 20) Methylene Chloride        | 2.788          | 84   | 4933                | 2.716  | ug/l # | 82       |
| 29) Tetrahydrofuran           | 5.050          | 42   | 618                 | 0.670  | ug/l   | 98       |
| 31) Cyclohexane               | 5.544          | 56   | 2894                | 1.219  | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.544          | 75   | 11540               | 5.587  | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 14304               | 6.095  | ug/l # | 15       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 125021              | 28.038 | ug/l   | 100      |
| 48) Methyl methacrylate       | 7.799          | 41   | 103317              | 49.629 | ug/l # | 42       |
| 49) 1,4-Dioxane               | 7.799          | 88   | 156                 | 2.917  | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 95649               | 33.854 | ug/l # | 45       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 44436               | 17.401 | ug/l # | 60       |
| 56) Ethyl methacrylate        | 9.250          | 69   | 806                 | 0.278  | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 5410                | 1.824  | ug/l # | 42       |
| 59) 2-Hexanone                | 9.482          | 43   | 73379               | 34.348 | ug/l # | 51       |
| 74) N-amyl acetate            | 10.817         | 43   | 748                 | 0.219  | ug/l # | 42       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 53252               | 24.183 | ug/l # | 33       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 53252               | 64.781 | ug/l # | 7        |
| -----                         |                |      |                     |        |        |          |

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

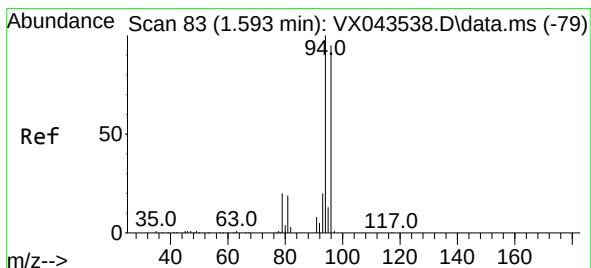
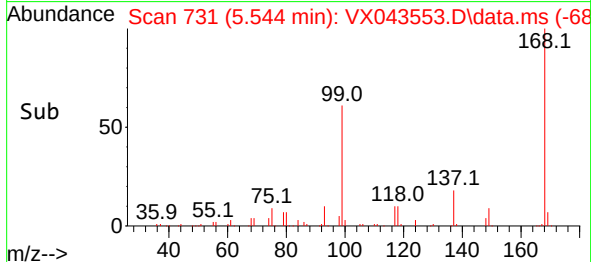
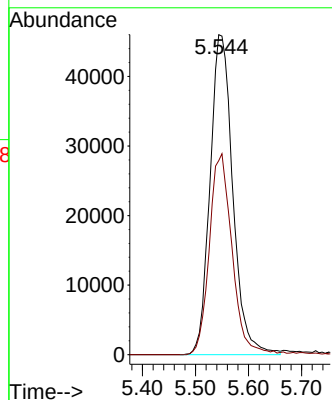
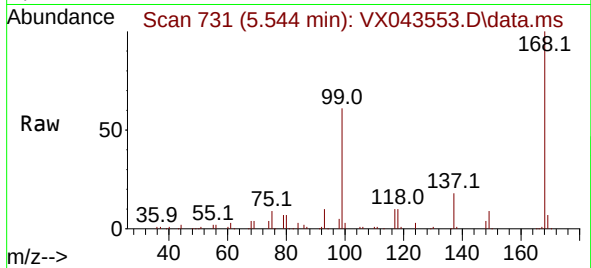




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX043553.D  
Acq: 26 Oct 2024 06:20

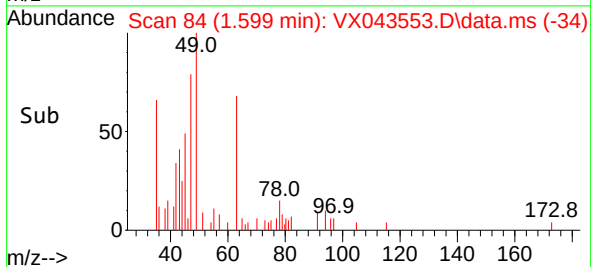
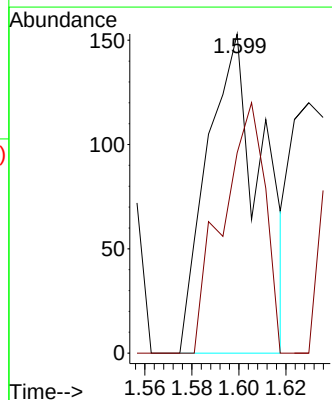
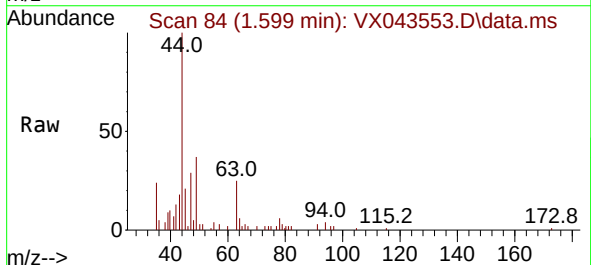
Instrument :  
MSVOA\_X  
ClientSampleId :

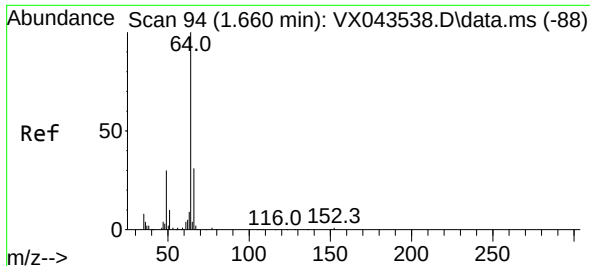
Tgt Ion:168 Resp: 137270  
Ion Ratio Lower Upper  
168 100  
99 60.7 52.6 78.8



#5  
Bromomethane  
Concen: 0.359 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.006 min  
Lab File: VX043553.D  
Acq: 26 Oct 2024 06:20

Tgt Ion: 94 Resp: 249  
Ion Ratio Lower Upper  
94 100  
96 62.7 75.9 113.9#

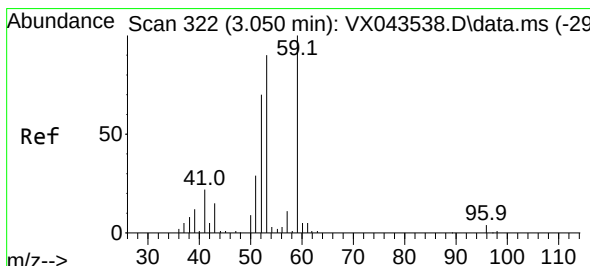
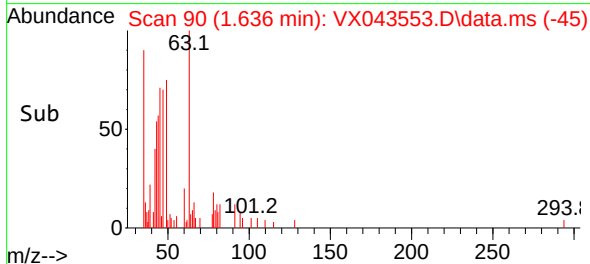
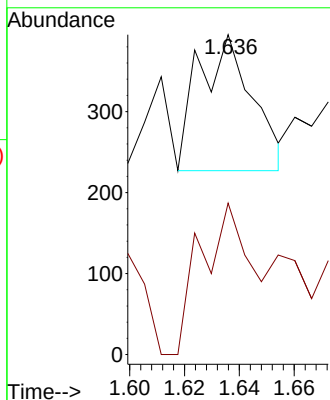
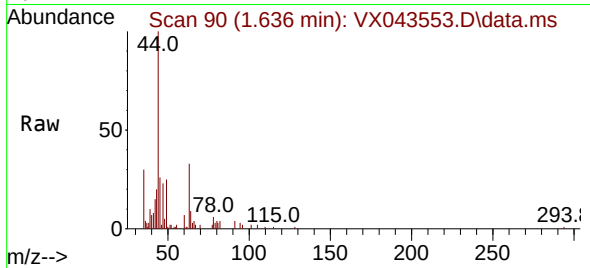




#6  
Chloroethane  
Concen: 0.394 ug/l  
RT: 1.636 min Scan# 90  
Delta R.T. -0.024 min  
Lab File: VX043553.D  
Acq: 26 Oct 2024 06:20

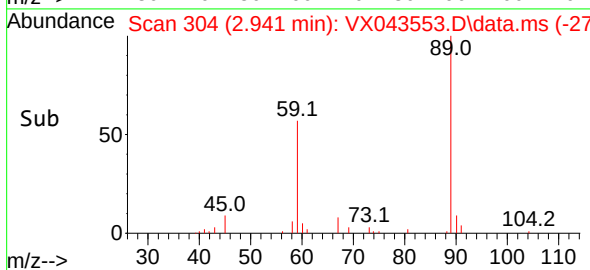
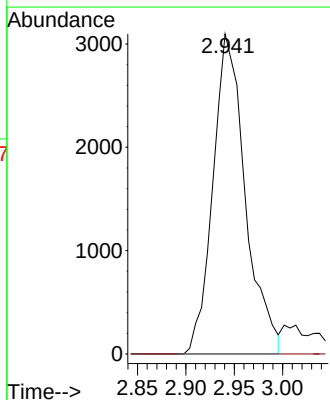
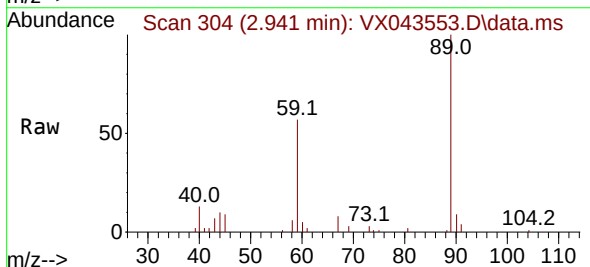
Instrument :  
MSVOA\_X  
ClientSampleId :

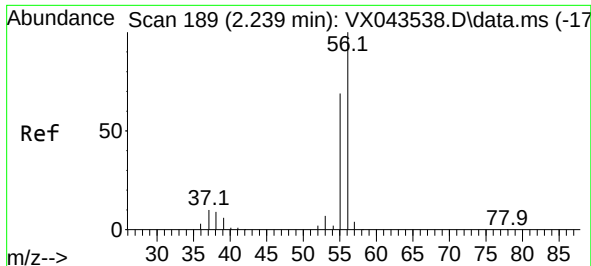
Tgt Ion: 64 Resp: 229  
Ion Ratio Lower Upper  
64 100  
66 111.3 25.1 37.7#



#11  
Tert butyl alcohol  
Concen: 15.496 ug/l  
RT: 2.941 min Scan# 304  
Delta R.T. -0.110 min  
Lab File: VX043553.D  
Acq: 26 Oct 2024 06:20

Tgt Ion: 59 Resp: 7207  
Ion Ratio Lower Upper  
59 100  
57 0.0 0.0 0.0





#13

Acrolein

Concen: 0.810 ug/l

RT: 2.245 min Scan# 19

Delta R.T. 0.006 min

Lab File: VX043553.D

Acq: 26 Oct 2024 06:20

Instrument :

MSVOA\_X

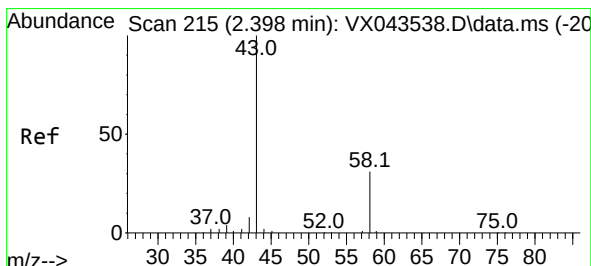
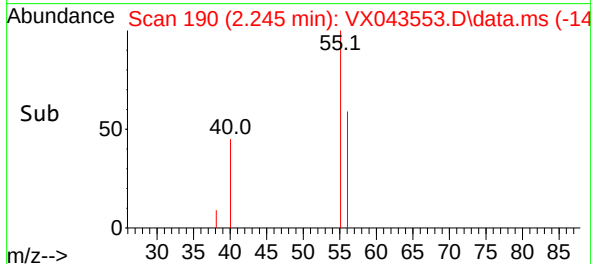
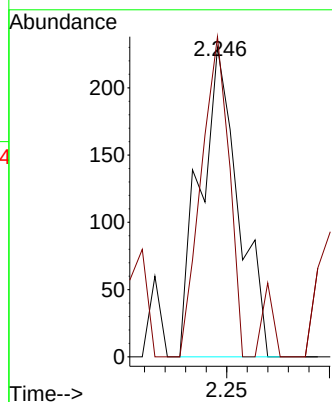
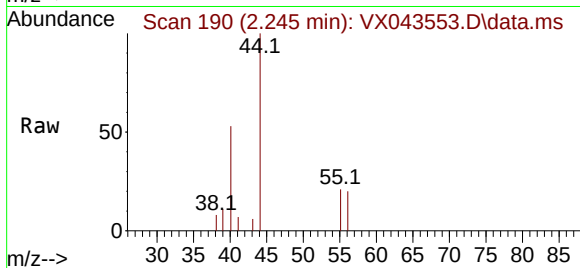
ClientSampleId :

Tgt Ion: 56 Resp: 297

Ion Ratio Lower Upper

56 100

55 75.8 55.3 82.9



#16

Acetone

Concen: 34.317 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.006 min

Lab File: VX043553.D

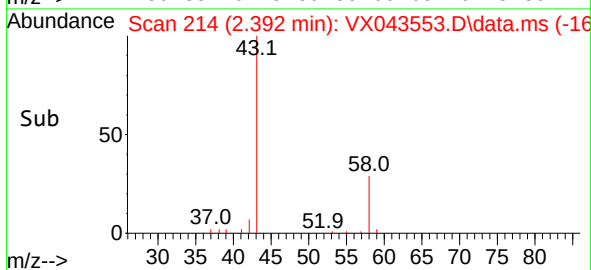
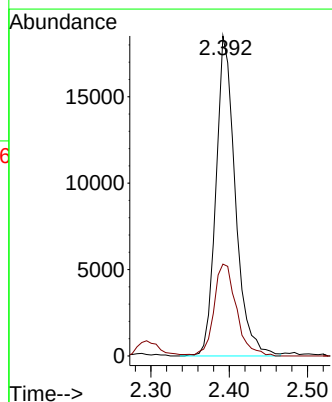
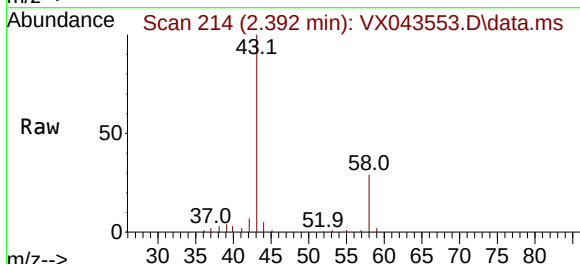
Acq: 26 Oct 2024 06:20

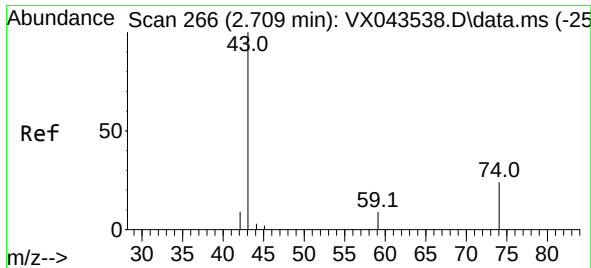
Tgt Ion: 43 Resp: 31897

Ion Ratio Lower Upper

43 100

58 28.7 25.1 37.7

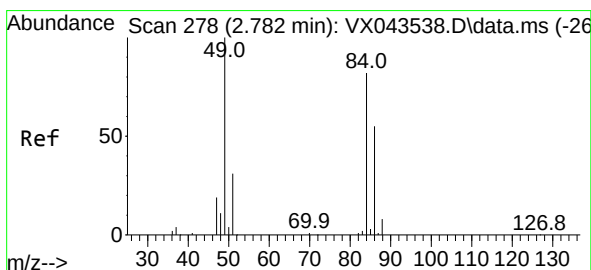
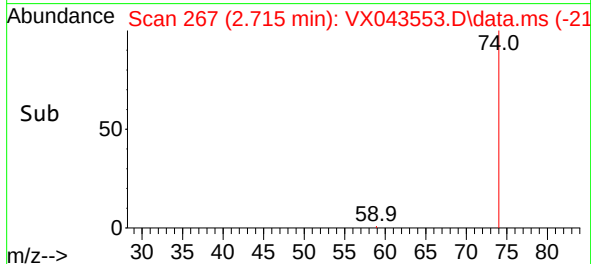
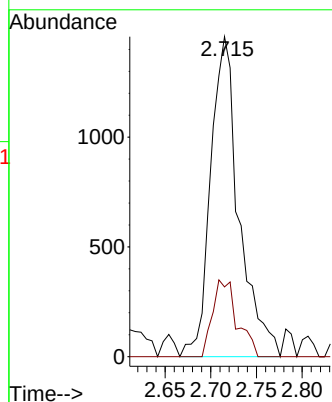
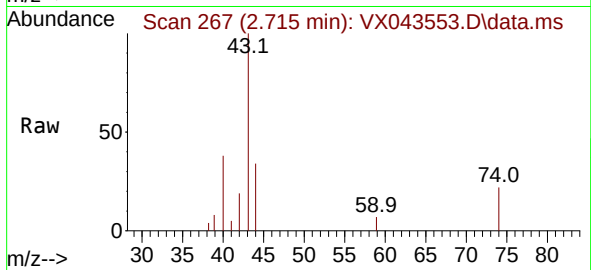




#18  
Methyl Acetate  
Concen: 1.126 ug/l  
RT: 2.715 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VX043553.D  
Acq: 26 Oct 2024 06:20

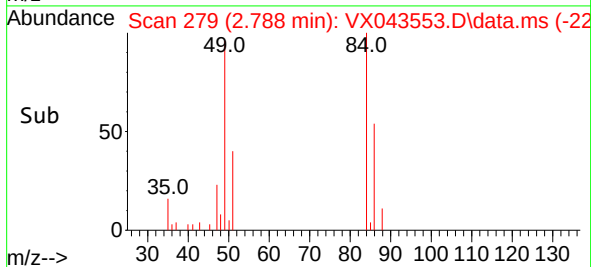
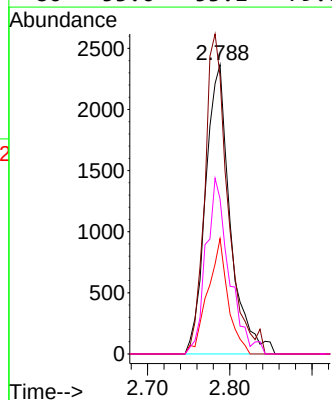
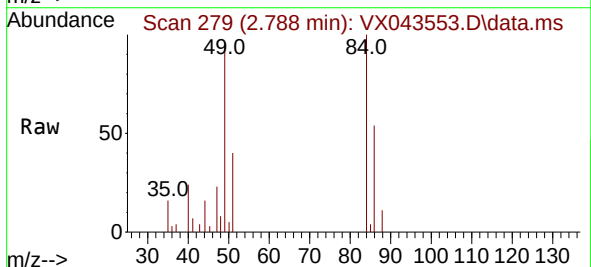
Instrument :  
MSVOA\_X  
ClientSampleId :

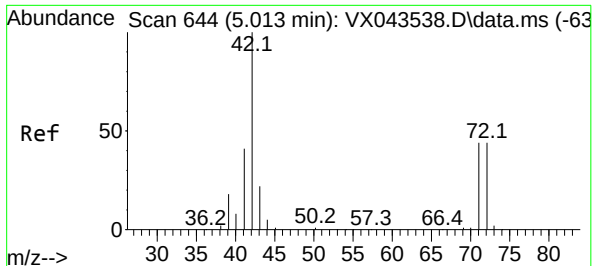
Tgt Ion: 43 Resp: 3145  
Ion Ratio Lower Upper  
43 100  
74 20.7 19.1 28.7



#20  
Methylene Chloride  
Concen: 2.716 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.006 min  
Lab File: VX043553.D  
Acq: 26 Oct 2024 06:20

Tgt Ion: 84 Resp: 4933  
Ion Ratio Lower Upper  
84 100  
49 96.0 97.0 145.6#  
51 39.9 29.8 44.8  
86 53.6 53.1 79.7





#29

Tetrahydrofuran

Concen: 0.670 ug/l

RT: 5.050 min Scan# 618

Delta R.T. 0.037 min

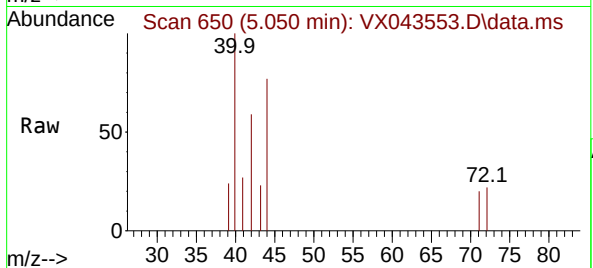
Lab File: VX043553.D

Acq: 26 Oct 2024 06:20

Instrument :

MSVOA\_X

ClientSampleId :



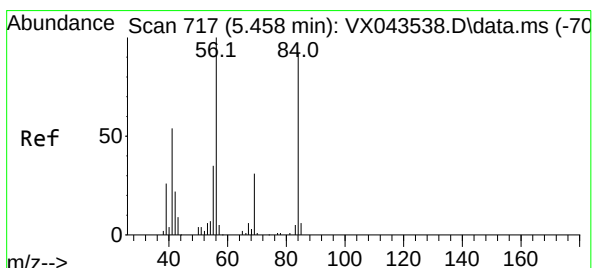
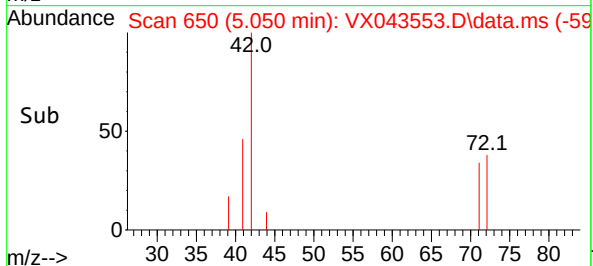
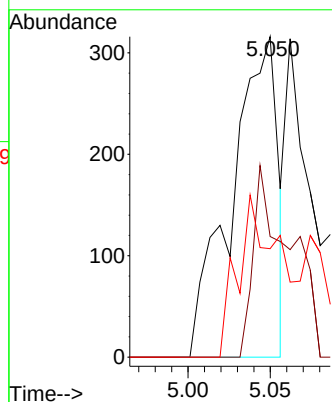
Tgt Ion: 42 Resp: 618

Ion Ratio Lower Upper

42 100

72 47.4 36.6 55.0

71 43.2 34.2 51.4



#31

Cyclohexane

Concen: 1.219 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.086 min

Lab File: VX043553.D

Acq: 26 Oct 2024 06:20

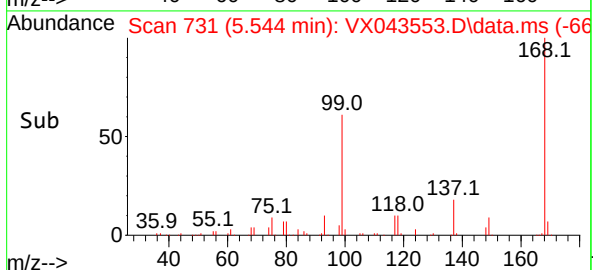
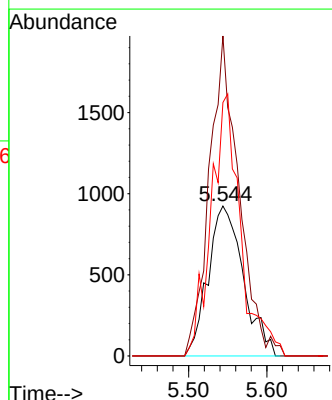
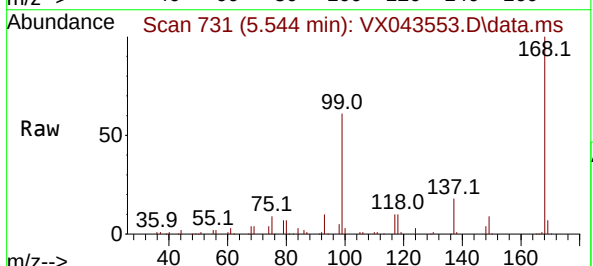
Tgt Ion: 56 Resp: 2894

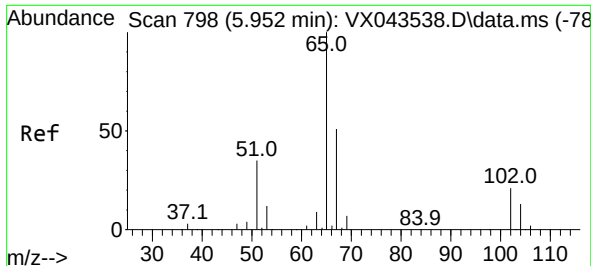
Ion Ratio Lower Upper

56 100

69 213.4 24.9 37.3#

84 169.0 73.3 109.9#

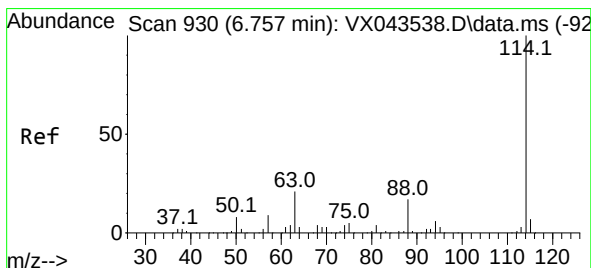
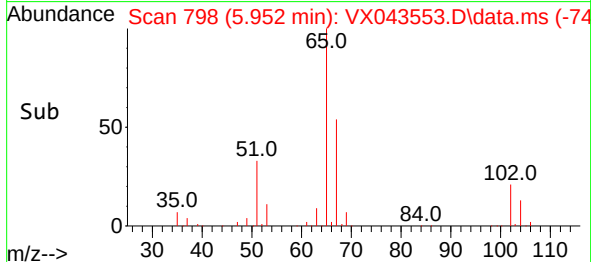
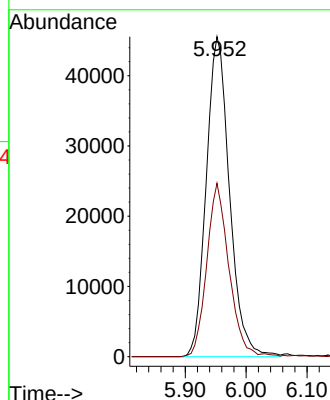
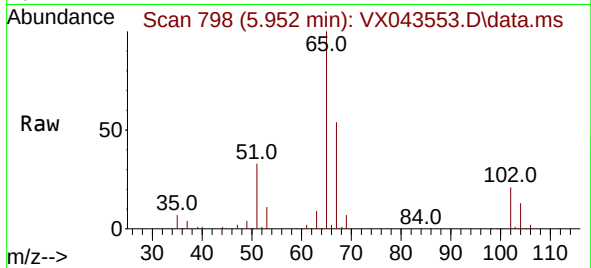




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.489 ug/l  
 RT: 5.952 min Scan# 798  
 Delta R.T. 0.000 min  
 Lab File: VX043553.D  
 Acq: 26 Oct 2024 06:20

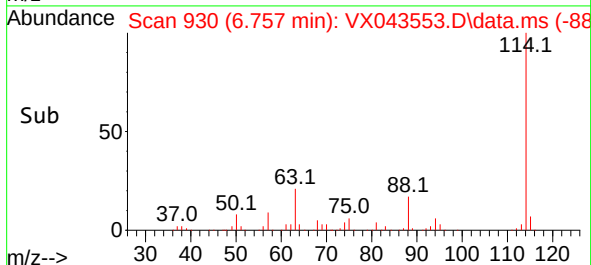
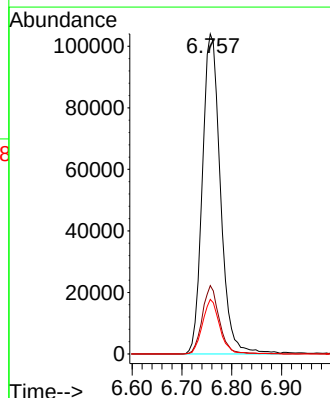
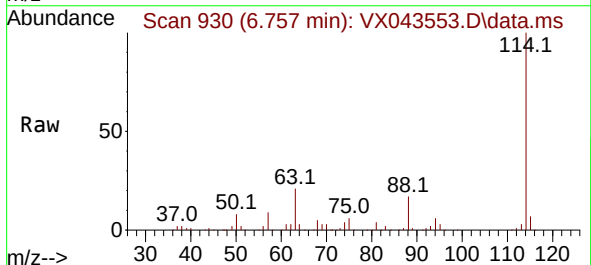
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tgt Ion: 65 Resp: 120828  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 103.4

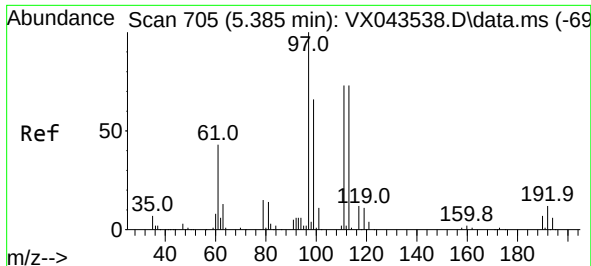


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.757 min Scan# 930  
 Delta R.T. 0.000 min  
 Lab File: VX043553.D  
 Acq: 26 Oct 2024 06:20

Tgt Ion: 114 Resp: 262081  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 41.2  
 88 17.0 0.0 34.0

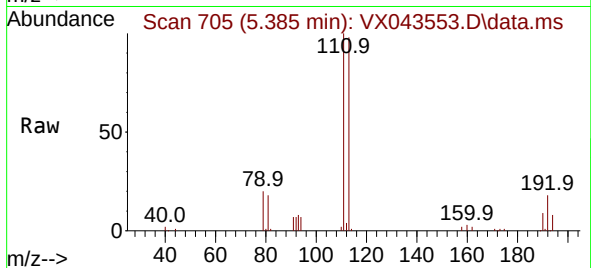




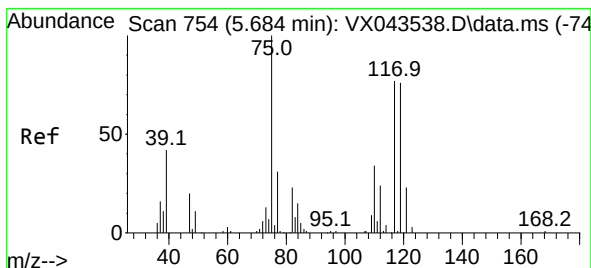
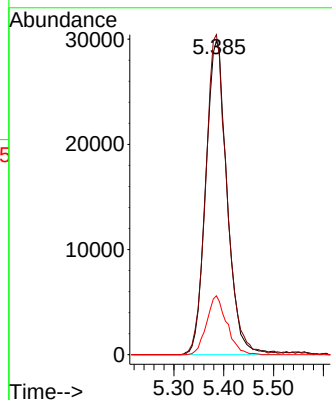
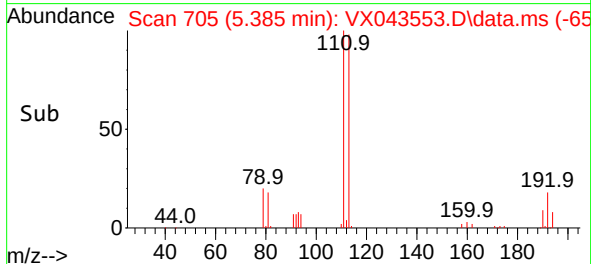


#35  
Dibromofluoromethane  
Concen: 50.759 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX043553.D  
Acq: 26 Oct 2024 06:20

Instrument :  
MSVOA\_X  
ClientSampleId :

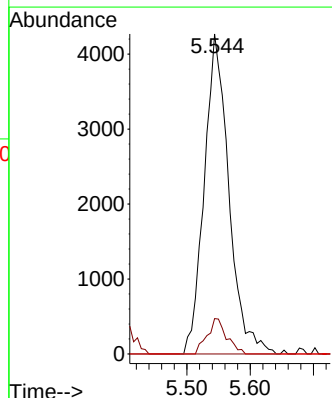
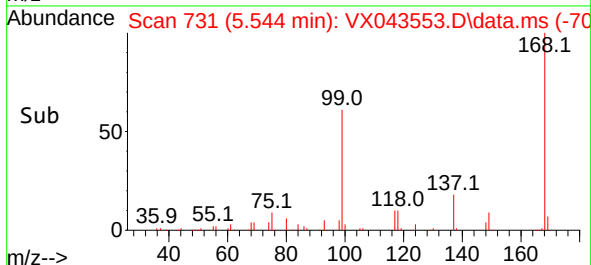
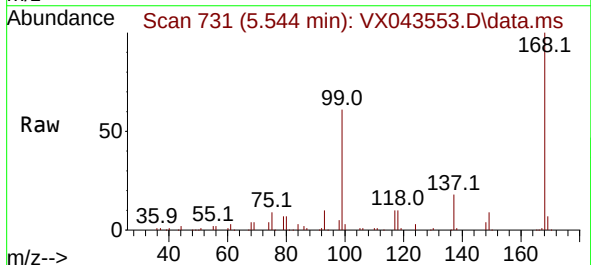


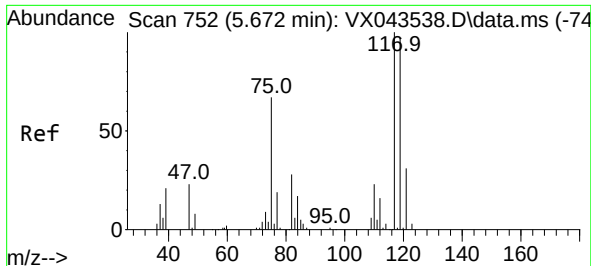
Tgt Ion:113 Resp: 88581  
Ion Ratio Lower Upper  
113 100  
111 100.9 81.4 122.0  
192 17.9 14.1 21.1



#36  
1,1-Dichloropropene  
Concen: 5.587 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.140 min  
Lab File: VX043553.D  
Acq: 26 Oct 2024 06:20

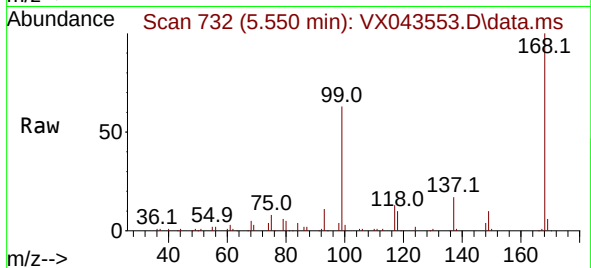
Tgt Ion: 75 Resp: 11540  
Ion Ratio Lower Upper  
75 100  
110 8.8 17.9 53.7#  
77 0.0 25.0 37.4#



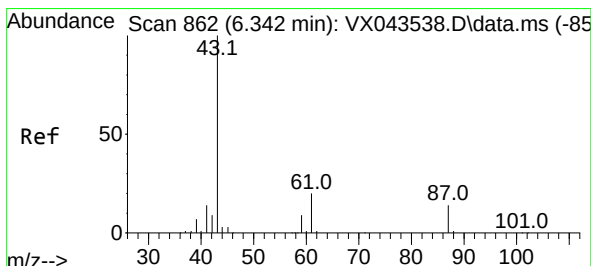
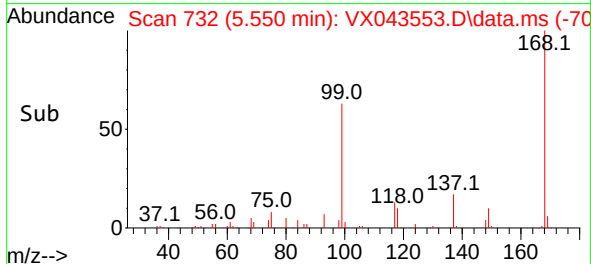
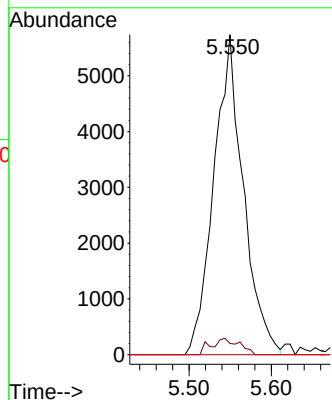


#38  
Carbon Tetrachloride  
Concen: 6.095 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX043553.D  
Acq: 26 Oct 2024 06:20

Instrument :  
MSVOA\_X  
ClientSampleId :

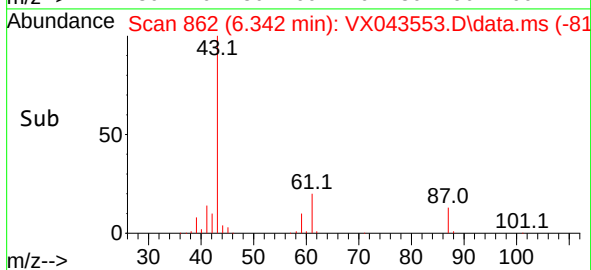
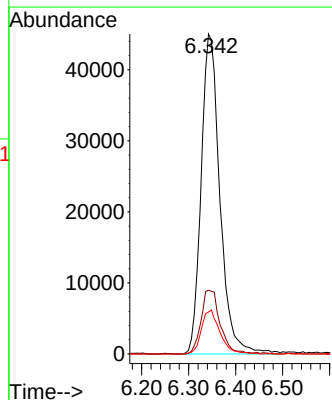
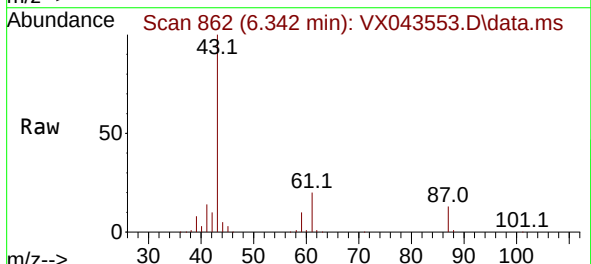


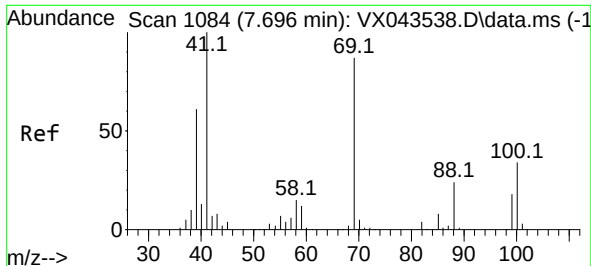
Tgt Ion:117 Resp: 14304  
Ion Ratio Lower Upper  
117 100  
119 3.5 77.0 115.6#  
121 0.0 24.7 37.1#



#43  
Isopropyl Acetate  
Concen: 28.038 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.000 min  
Lab File: VX043553.D  
Acq: 26 Oct 2024 06:20

Tgt Ion: 43 Resp: 125021  
Ion Ratio Lower Upper  
43 100  
61 20.2 16.2 24.4  
87 13.5 11.0 16.6





#48

Methyl methacrylate

Concen: 49.629 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.104 min

Lab File: VX043553.D

Acq: 26 Oct 2024 06:20

Instrument :

MSVOA\_X

ClientSampleId :

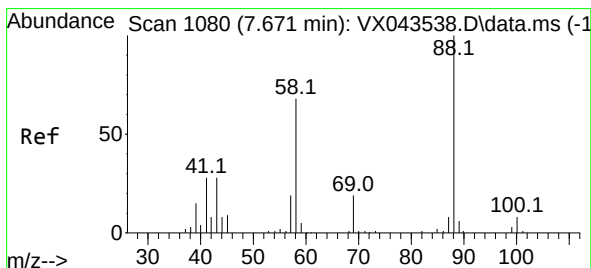
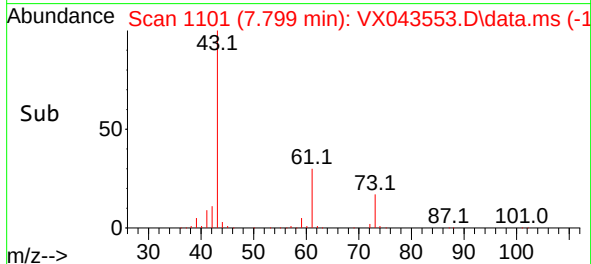
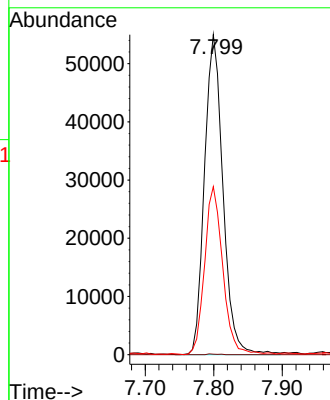
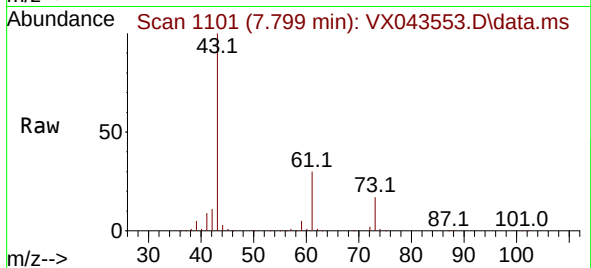
Tgt Ion: 41 Resp: 103317

Ion Ratio Lower Upper

41 100

69 0.1 67.7 101.5#

39 51.9 46.3 69.5



#49

1,4-Dioxane

Concen: 2.917 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.128 min

Lab File: VX043553.D

Acq: 26 Oct 2024 06:20

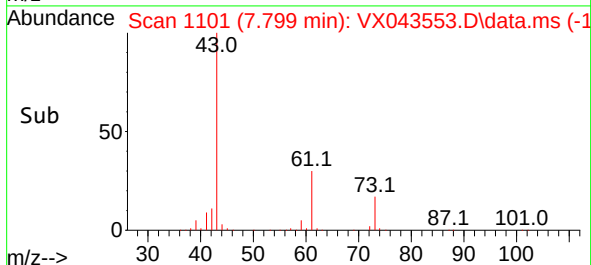
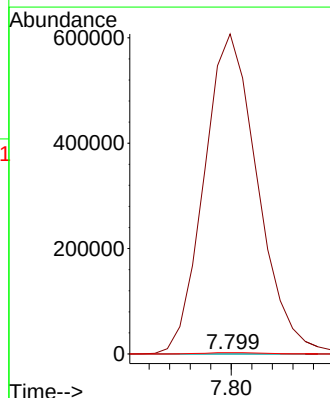
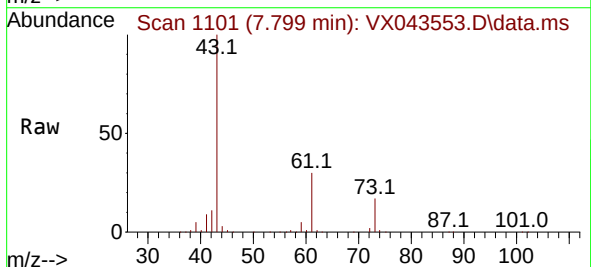
Tgt Ion: 88 Resp: 156

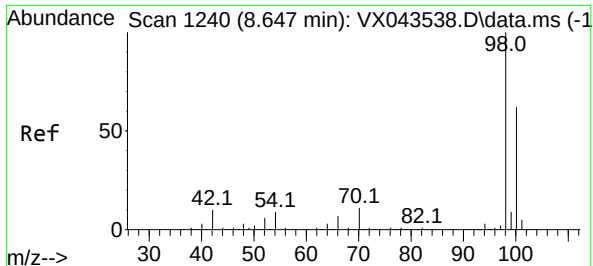
Ion Ratio Lower Upper

88 100

43 713923.1 25.3 37.9#

58 3297.4 53.9 80.9#





#50

Toluene-d8

Concen: 49.450 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX043553.D

Acq: 26 Oct 2024 06:20

Instrument :

MSVOA\_X

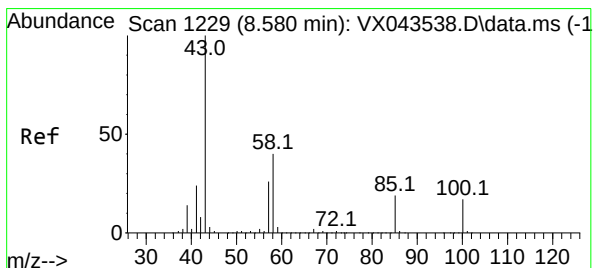
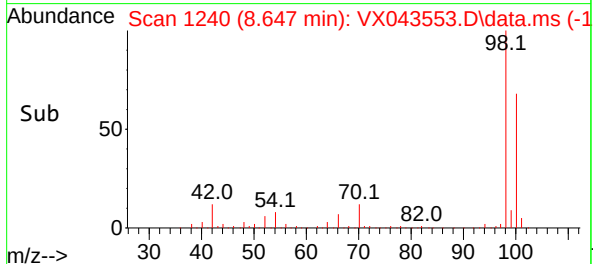
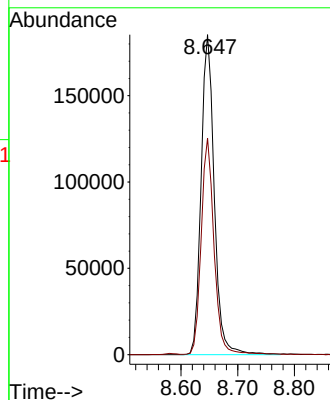
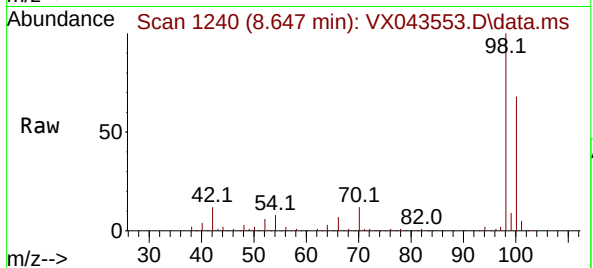
ClientSampleId :

Tgt Ion: 98 Resp: 299221

Ion Ratio Lower Upper

98 100

100 65.8 53.4 80.2



#51

4-Methyl-2-Pentanone

Concen: 33.854 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. -0.030 min

Lab File: VX043553.D

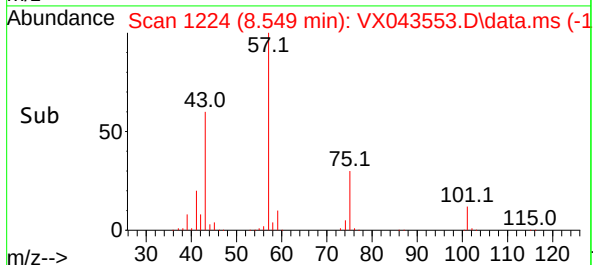
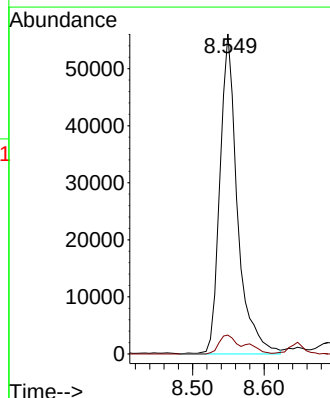
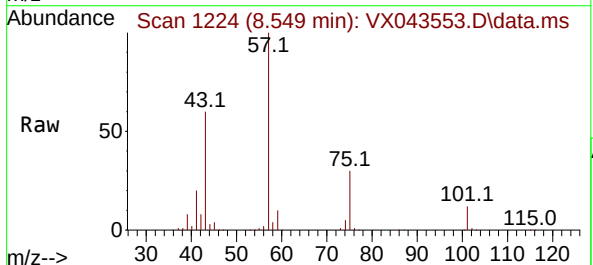
Acq: 26 Oct 2024 06:20

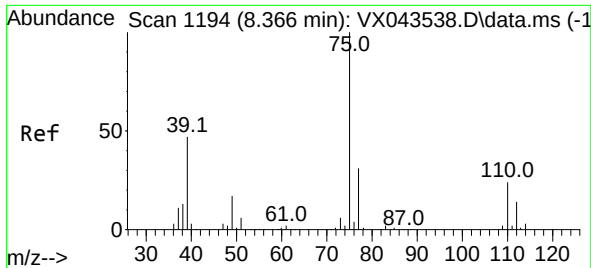
Tgt Ion: 43 Resp: 95649

Ion Ratio Lower Upper

43 100

58 5.8 31.7 47.5#

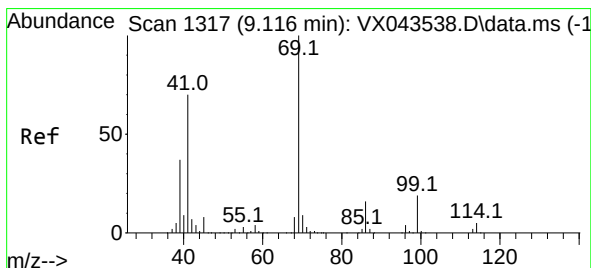
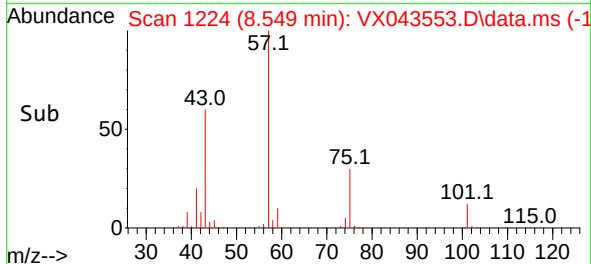
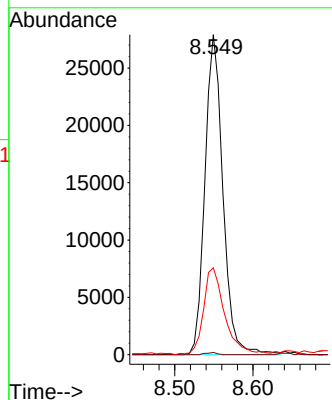
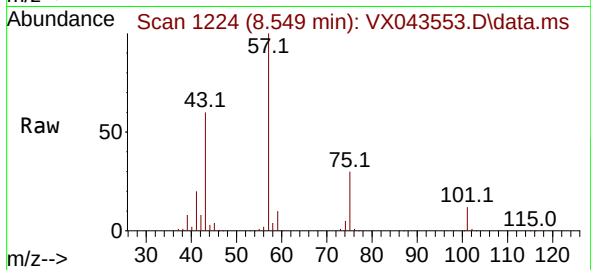




#54  
 cis-1,3-Dichloropropene  
 Concen: 17.401 ug/l  
 RT: 8.549 min Scan# 1194  
 Delta R.T. 0.183 min  
 Lab File: VX043553.D  
 Acq: 26 Oct 2024 06:20

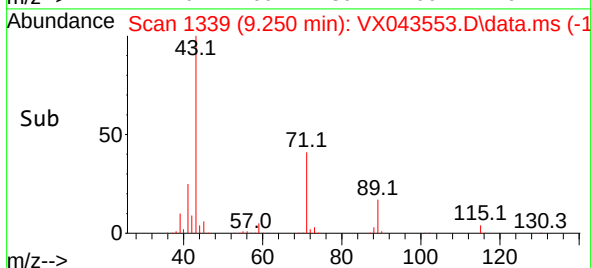
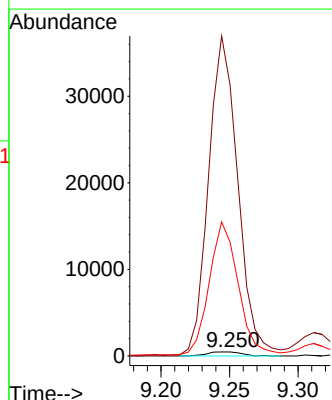
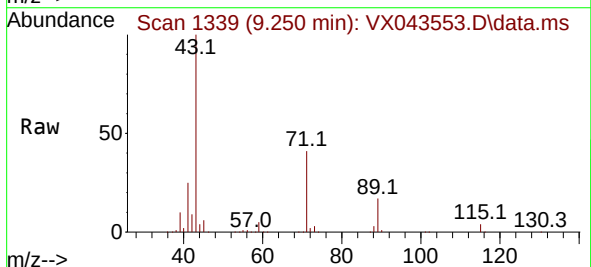
Instrument :  
 MSVOA\_X  
 ClientSampleId :

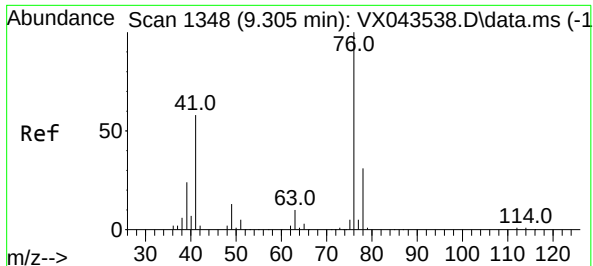
Tgt Ion: 75 Resp: 44436  
 Ion Ratio Lower Upper  
 75 100  
 77 0.7 24.8 37.2#  
 39 26.8 37.7 56.5#



#56  
 Ethyl methacrylate  
 Concen: 0.278 ug/l  
 RT: 9.250 min Scan# 1339  
 Delta R.T. 0.134 min  
 Lab File: VX043553.D  
 Acq: 26 Oct 2024 06:20

Tgt Ion: 69 Resp: 806  
 Ion Ratio Lower Upper  
 69 100  
 41 6790.3 53.8 80.8#  
 39 2804.3 29.9 44.9#





#57

1,3-Dichloropropane

Concen: 1.824 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX043553.D

Acq: 26 Oct 2024 06:20

Instrument :

MSVOA\_X

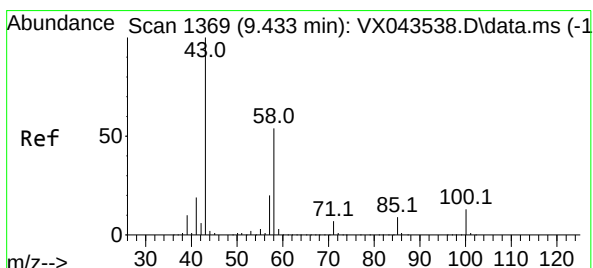
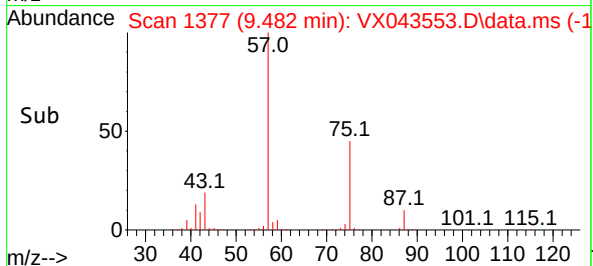
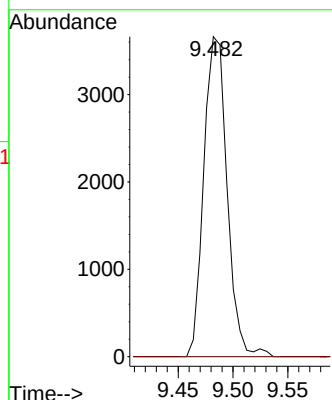
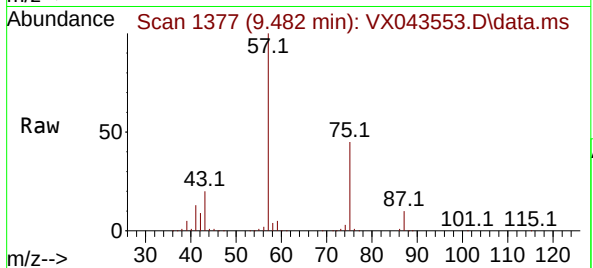
ClientSampleId :

Tgt Ion: 76 Resp: 5410

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 34.348 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX043553.D

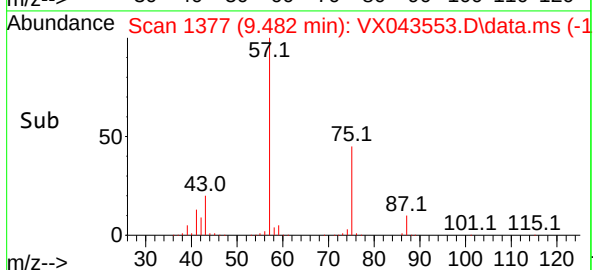
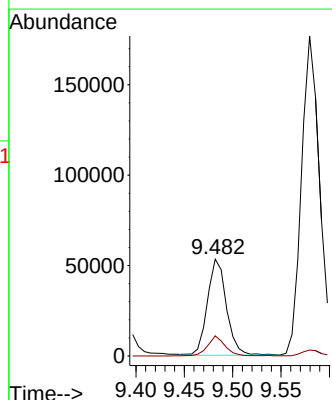
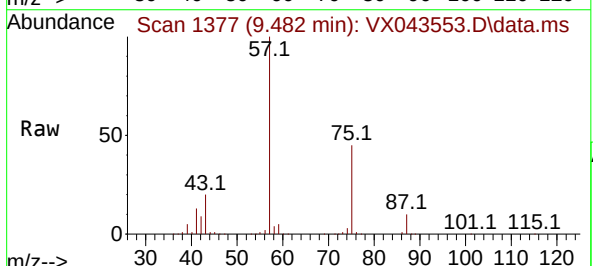
Acq: 26 Oct 2024 06:20

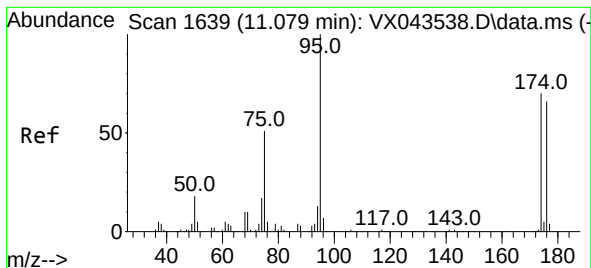
Tgt Ion: 43 Resp: 73379

Ion Ratio Lower Upper

43 100

58 19.4 27.5 82.5#

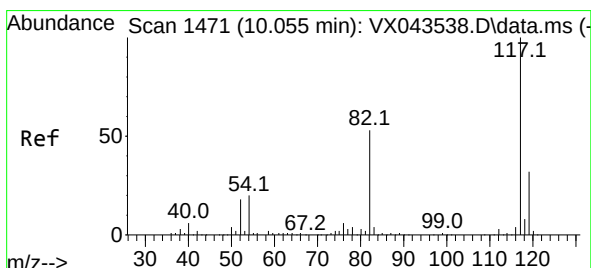
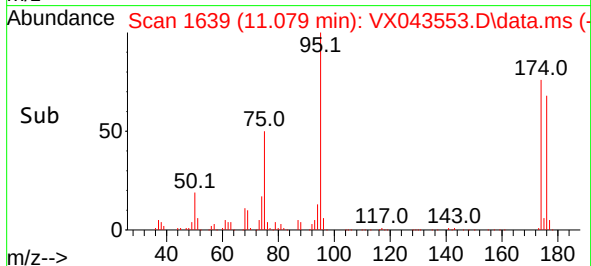
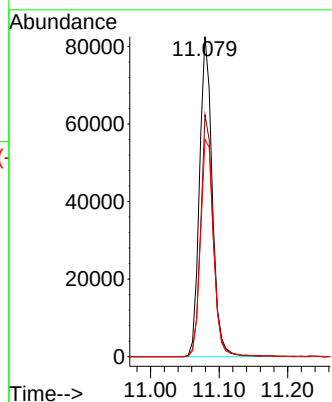
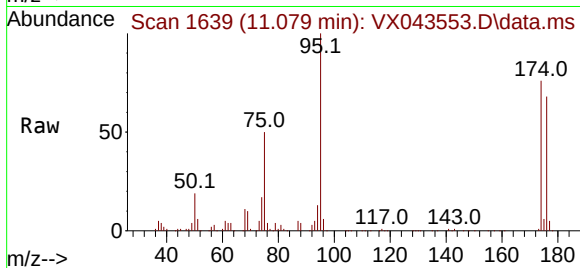




#62  
4-Bromofluorobenzene  
Concen: 48.484 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX043553.D  
Acq: 26 Oct 2024 06:20

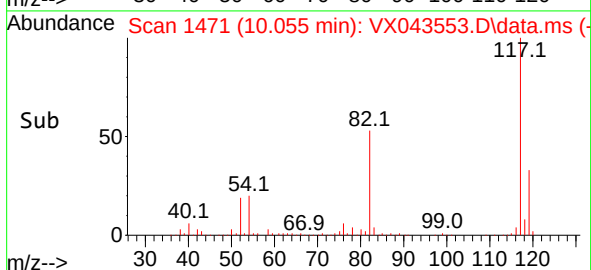
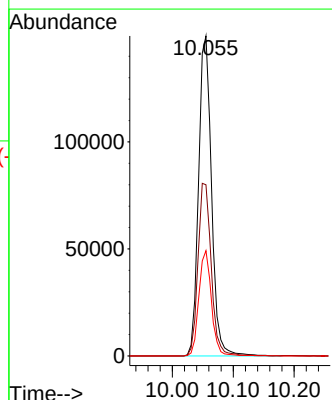
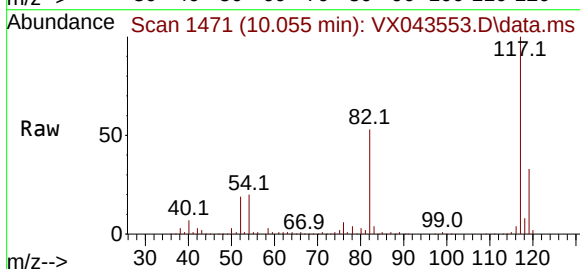
Instrument :  
MSVOA\_X  
ClientSampleId :

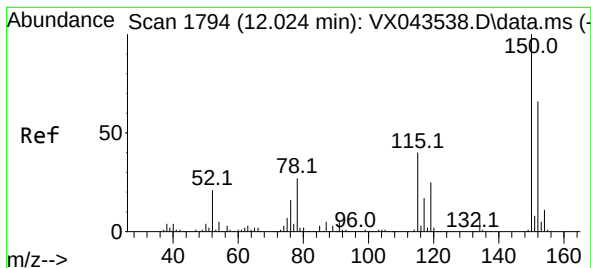
Tgt Ion: 95 Resp: 107156  
Ion Ratio Lower Upper  
95 100  
174 73.7 0.0 146.6  
176 69.8 0.0 139.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX043553.D  
Acq: 26 Oct 2024 06:20

Tgt Ion: 117 Resp: 220785  
Ion Ratio Lower Upper  
117 100  
82 53.5 42.1 63.1  
119 32.9 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX043553.D

Acq: 26 Oct 2024 06:20

Instrument :

MSVOA\_X

ClientSampleId :

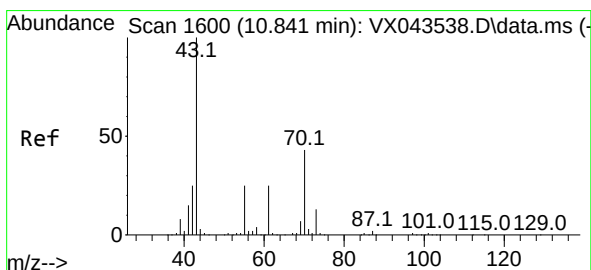
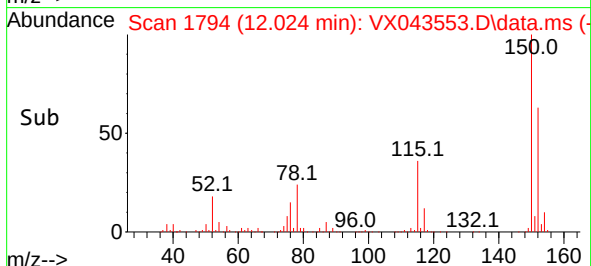
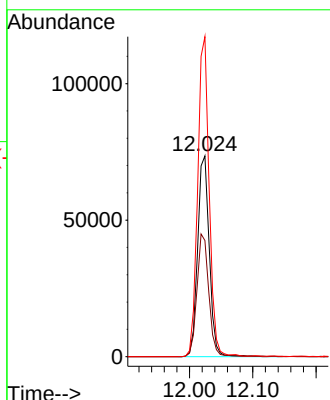
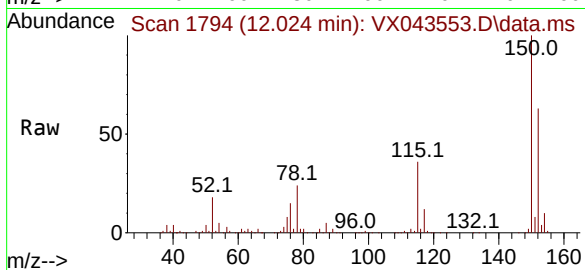
Tgt Ion:152 Resp: 94723

Ion Ratio Lower Upper

152 100

115 61.9 42.9 128.7

150 156.4 0.0 343.6



#74

N-ethyl acetate

Concen: 0.219 ug/l

RT: 10.817 min Scan# 1596

Delta R.T. -0.024 min

Lab File: VX043553.D

Acq: 26 Oct 2024 06:20

Tgt Ion: 43 Resp: 748

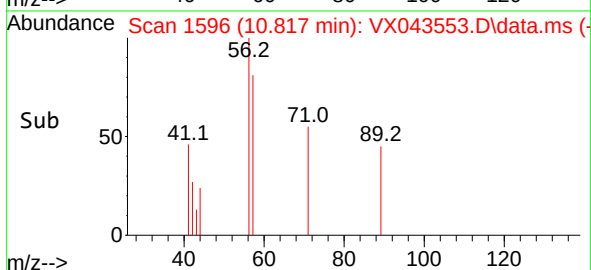
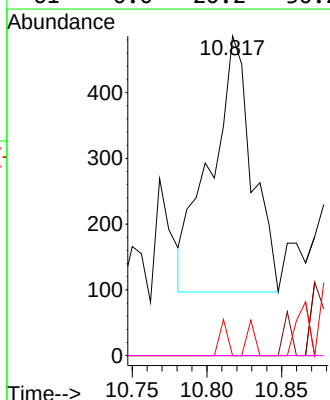
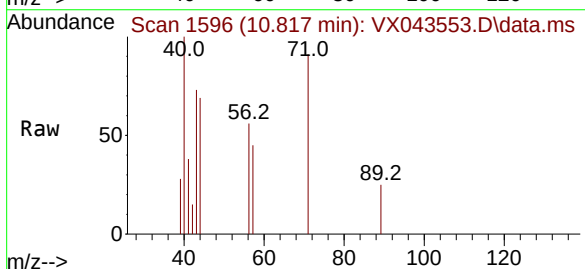
Ion Ratio Lower Upper

43 100

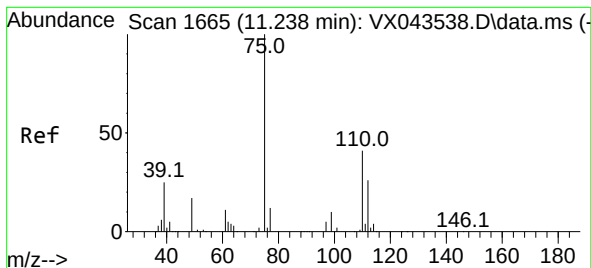
70 0.0 34.6 52.0#

55 0.0 19.6 29.4#

61 0.0 20.2 30.2#







#76

1,2,3-Trichloropropane

Concen: 24.183 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX043553.D

Acq: 26 Oct 2024 06:20

Instrument :

MSVOA\_X

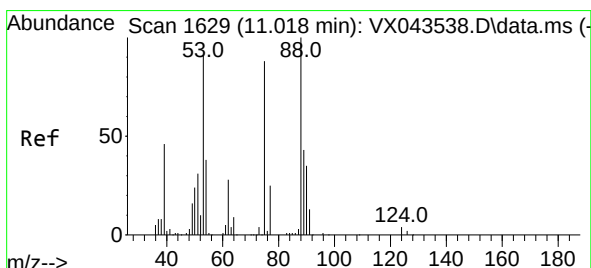
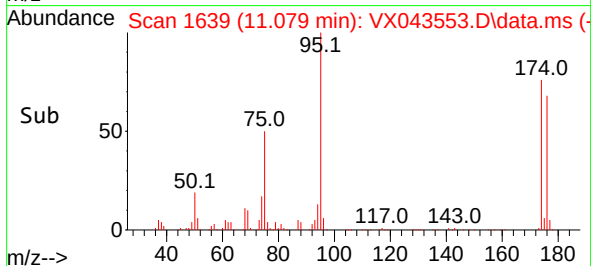
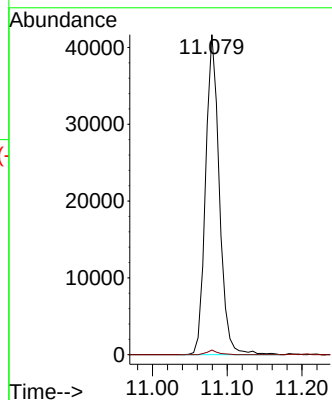
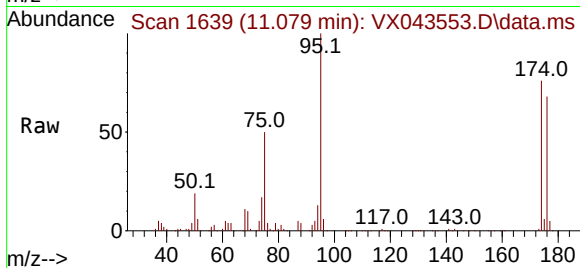
ClientSampleId :

Tgt Ion: 75 Resp: 53252

Ion Ratio Lower Upper

75 100

77 1.2 22.4 67.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.781 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX043553.D

Acq: 26 Oct 2024 06:20

Tgt Ion: 75 Resp: 53252

Ion Ratio Lower Upper

75 100

53 0.0 84.6 126.8#

89 0.0 38.6 58.0#

