

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX020325\  
 Data File : VX044819.D  
 Acq On : 03 Feb 2025 16:55  
 Operator : JC/MD  
 Sample : Q1232-18  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Feb 04 02:11:35 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

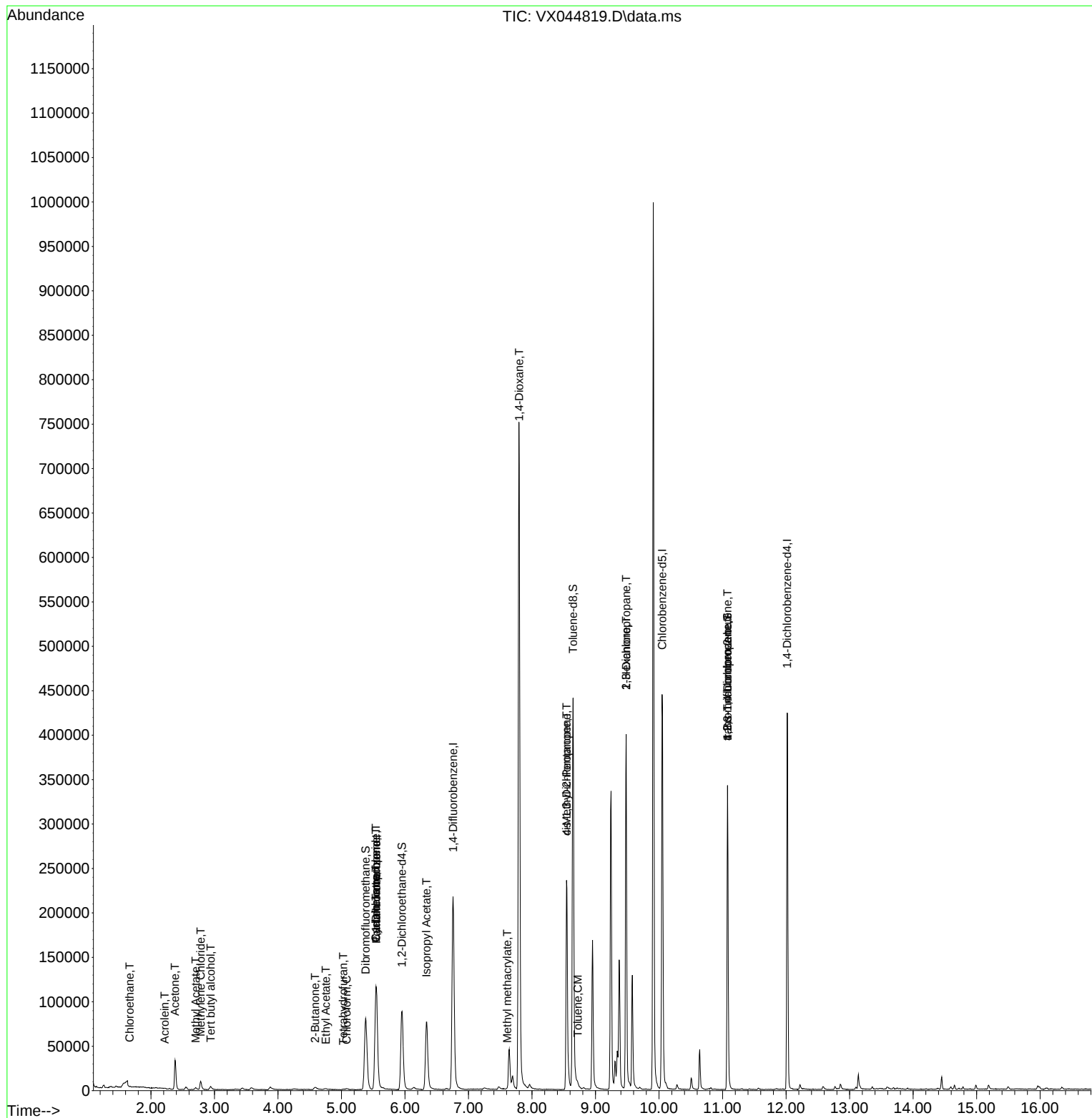
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 115498   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 232958   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.049 | 117   | 204621   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 85623    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 82379    | 47.253   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 94.500%  |
| 35) Dibromofluoromethane      | 5.379  | 113   | 72678    | 49.109   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 98.220%  |
| 50) Toluene-d8                | 8.647  | 98    | 276609   | 53.604   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 107.200% |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 94005    | 48.867   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 97.740%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 6) Chloroethane               | 1.666  | 64    | 137      | 0.450    | ug/l # | 41       |
| 11) Tert butyl alcohol        | 2.940  | 59    | 2164     | 5.568    | ug/l # | 85       |
| 13) Acrolein                  | 2.215  | 56    | 139      | 0.760    | ug/l # | 15       |
| 16) Acetone                   | 2.380  | 43    | 36115    | 52.360   | ug/l   | 96       |
| 18) Methyl Acetate            | 2.703  | 43    | 2850     | 1.339    | ug/l   | 92       |
| 20) Methylene Chloride        | 2.782  | 84    | 4724     | 2.941    | ug/l # | 79       |
| 25) 2-Butanone                | 4.586  | 43    | 3805     | 3.710    | ug/l   | 93       |
| 29) Tetrahydrofuran           | 5.025  | 42    | 463      | 0.700    | ug/l # | 30       |
| 30) Chloroform                | 5.080  | 83    | 592      | 0.216    | ug/l # | 82       |
| 31) Cyclohexane               | 5.544  | 56    | 2724     | 1.241    | ug/l # | 2        |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 9925     | 4.818    | ug/l # | 49       |
| 37) Ethyl Acetate             | 4.751  | 43    | 2371     | 1.081    | ug/l # | 70       |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 11627    | 5.018    | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.336  | 43    | 112520   | 27.880   | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.610  | 41    | 2746     | 1.466    | ug/l # | 13       |
| 49) 1,4-Dioxane               | 7.799  | 88    | 60       | 1.535    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.543  | 43    | 89084    | 39.942   | ug/l # | 50       |
| 52) Toluene                   | 8.720  | 92    | 864      | 0.221    | ug/l   | 85       |
| 54) cis-1,3-Dichloropropene   | 8.543  | 75    | 41946    | 14.925   | ug/l # | 57       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 3690     | 1.371    | ug/l # | 42       |
| 59) 2-Hexanone                | 9.482  | 43    | 49335    | 30.066   | ug/l # | 51       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 47195    | 22.712   | ug/l # | 32       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 47195    | 51.940   | ug/l # | 12       |
| -----                         |        |       |          |          |        |          |

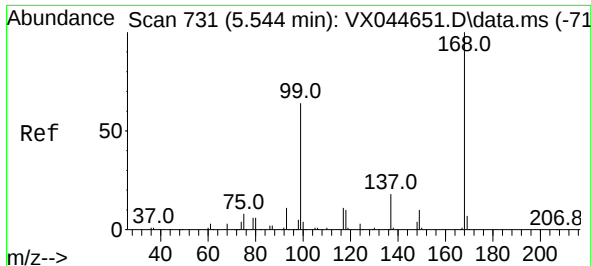
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

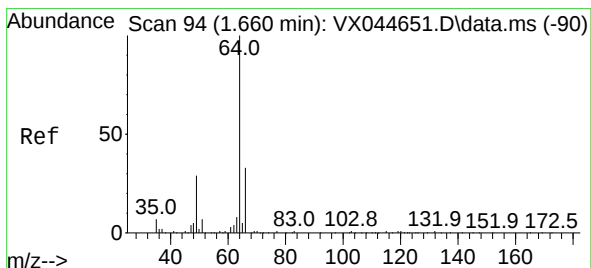
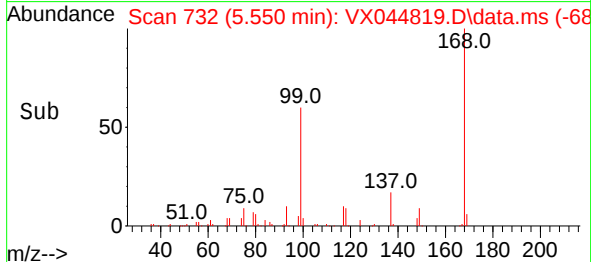
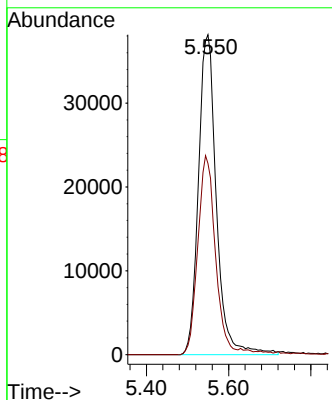
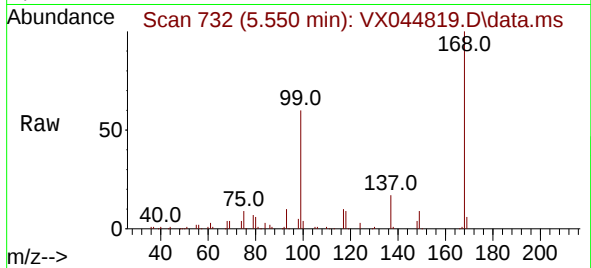




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

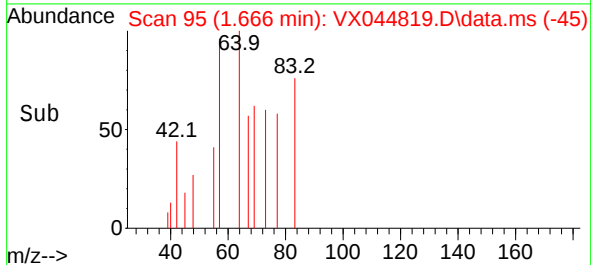
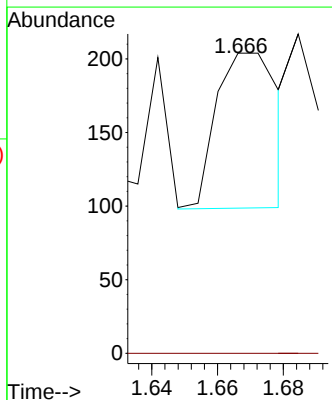
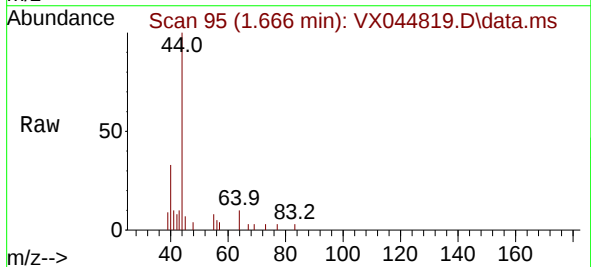
Instrument :  
MSVOA\_X  
ClientSampleId :

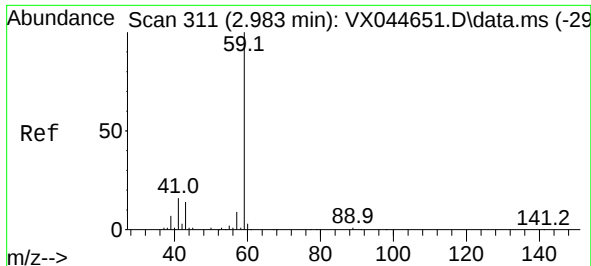
Tgt Ion:168 Resp: 115498  
Ion Ratio Lower Upper  
168 100  
99 59.7 51.1 76.7



#6  
Chloroethane  
Concen: 0.450 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. 0.006 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

Tgt Ion: 64 Resp: 137  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.6 39.8#





#11

Tert butyl alcohol

Concen: 5.568 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.043 min

Lab File: VX044819.D

Acq: 03 Feb 2025 16:55

Instrument :

MSVOA\_X

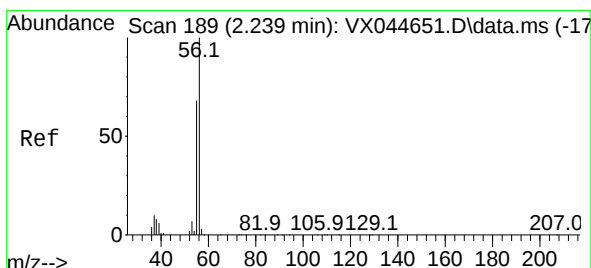
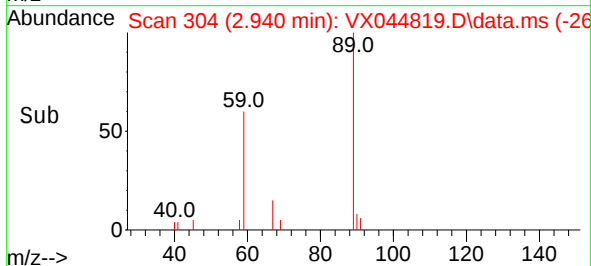
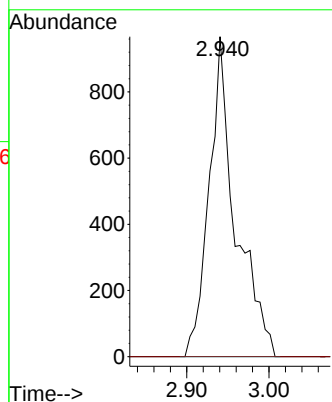
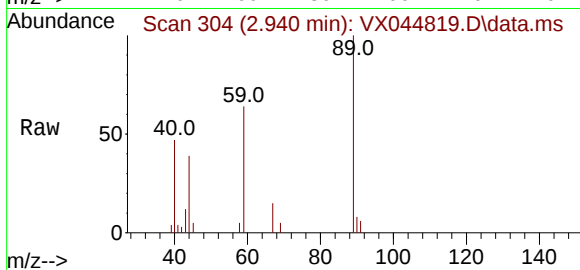
ClientSampleId :

Tgt Ion: 59 Resp: 2164

Ion Ratio Lower Upper

59 100

57 0.0 3.9 5.9#



#13

Acrolein

Concen: 0.760 ug/l

RT: 2.215 min Scan# 185

Delta R.T. -0.024 min

Lab File: VX044819.D

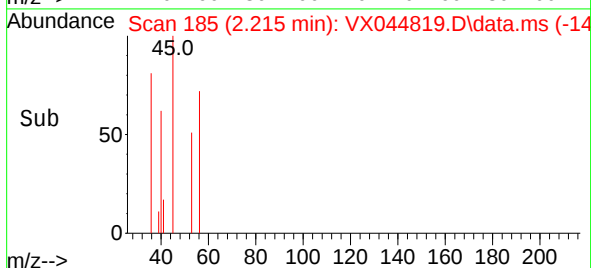
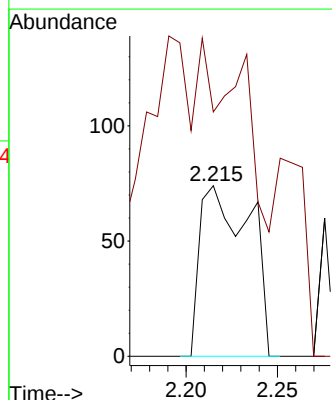
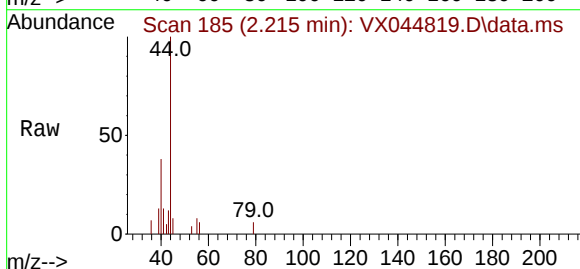
Acq: 03 Feb 2025 16:55

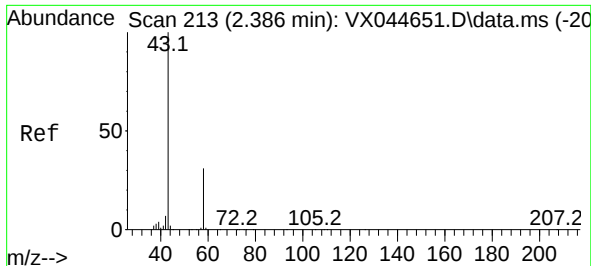
Tgt Ion: 56 Resp: 139

Ion Ratio Lower Upper

56 100

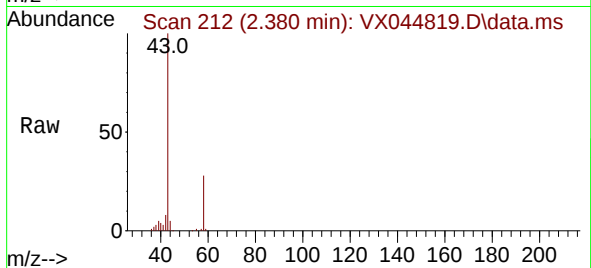
55 0.0 55.1 82.7#



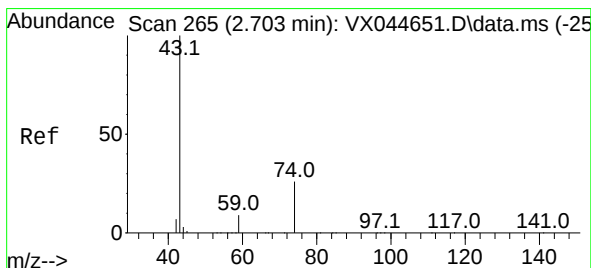
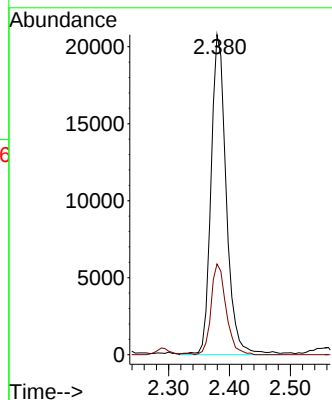
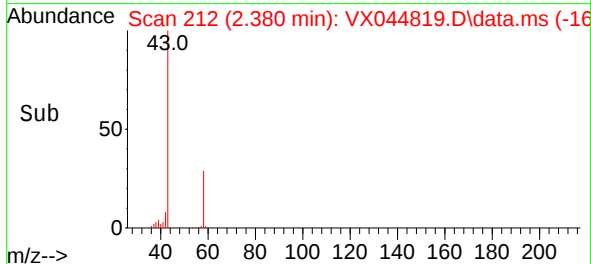


#16  
Acetone  
Concen: 52.360 ug/l  
RT: 2.380 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

Instrument :  
MSVOA\_X  
ClientSampleId :

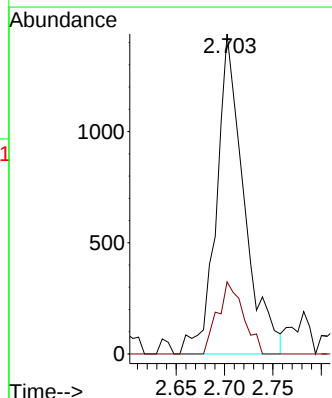
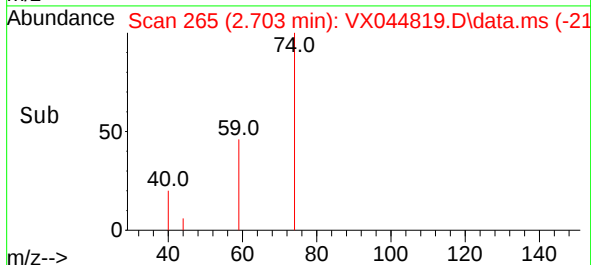
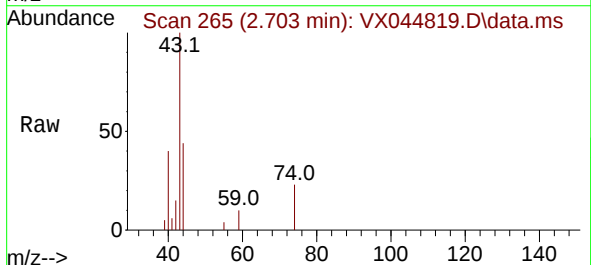


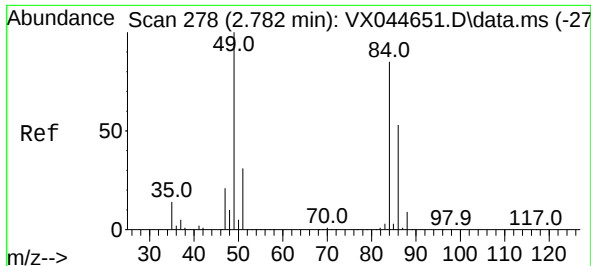
Tgt Ion: 43 Resp: 36115  
Ion Ratio Lower Upper  
43 100  
58 28.4 24.6 37.0



#18  
Methyl Acetate  
Concen: 1.339 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. 0.000 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

Tgt Ion: 43 Resp: 2850  
Ion Ratio Lower Upper  
43 100  
74 21.0 19.8 29.8





#20

Methylene Chloride

Concen: 2.941 ug/l

RT: 2.782 min Scan# 21

Delta R.T. 0.000 min

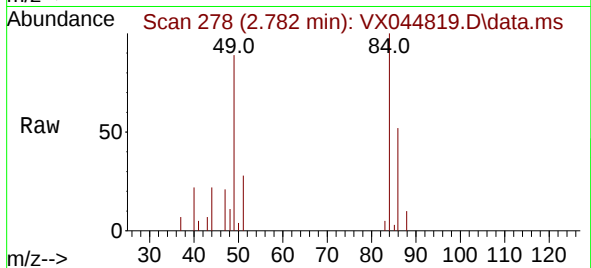
Lab File: VX044819.D

Acq: 03 Feb 2025 16:55

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 84 Resp: 4724

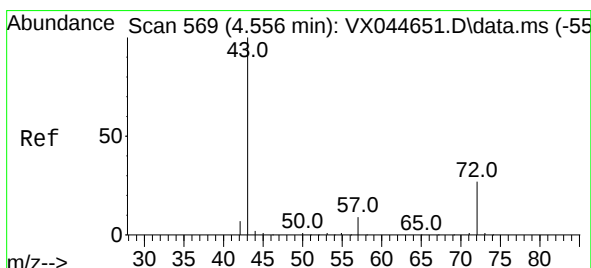
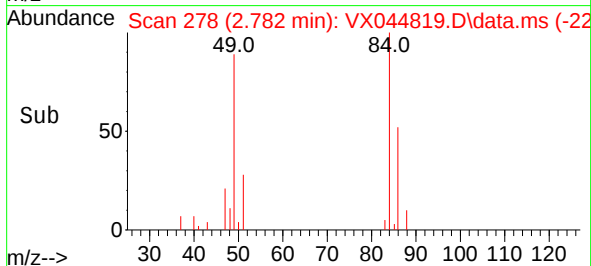
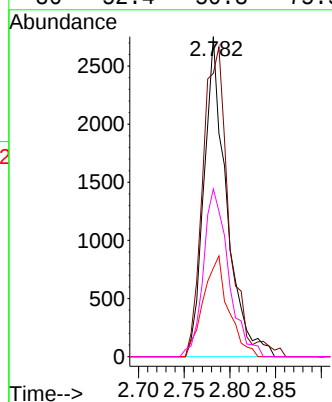
Ion Ratio Lower Upper

84 100

49 88.6 94.2 141.4#

51 27.6 28.8 43.2#

86 52.4 50.3 75.5



#25

2-Butanone

Concen: 3.710 ug/l

RT: 4.586 min Scan# 574

Delta R.T. 0.030 min

Lab File: VX044819.D

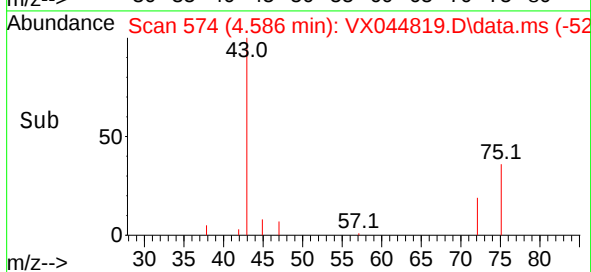
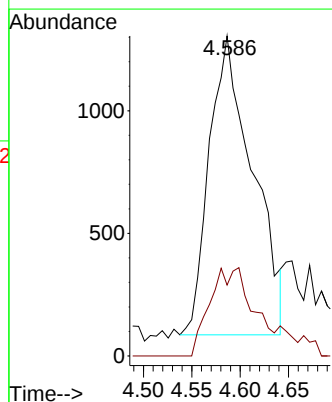
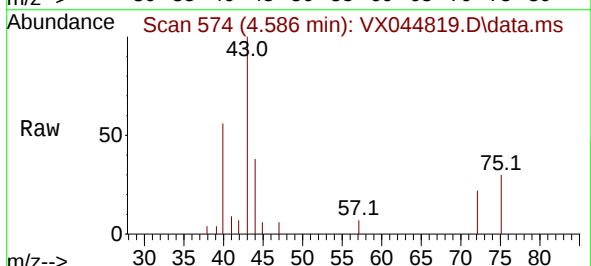
Acq: 03 Feb 2025 16:55

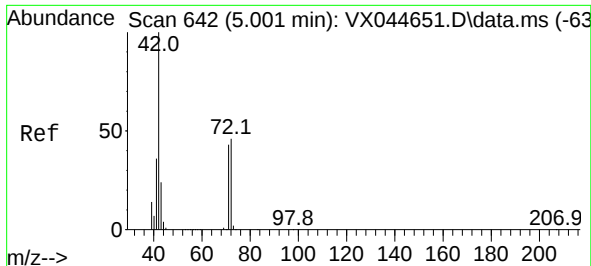
Tgt Ion: 43 Resp: 3805

Ion Ratio Lower Upper

43 100

72 23.7 21.7 32.5





#29

Tetrahydrofuran

Concen: 0.700 ug/l

RT: 5.025 min Scan# 64

Delta R.T. 0.024 min

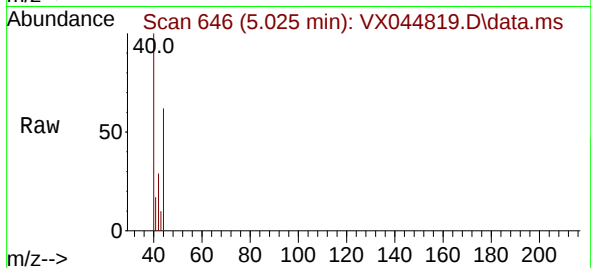
Lab File: VX044819.D

Acq: 03 Feb 2025 16:55

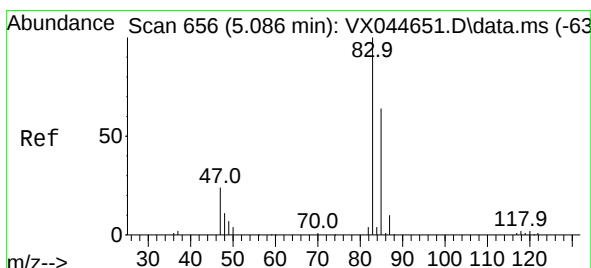
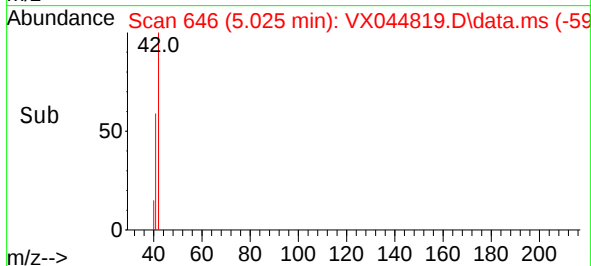
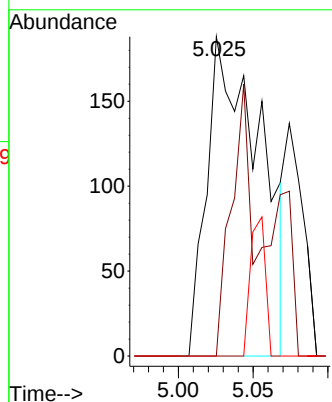
Instrument :

MSVOA\_X

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 42    | Resp: | 463   |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 72        | 0.0   | 38.2  | 57.4# |
| 71        | 0.0   | 35.3  | 52.9# |



#30

Chloroform

Concen: 0.216 ug/l

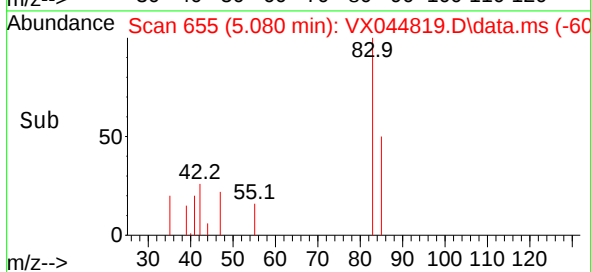
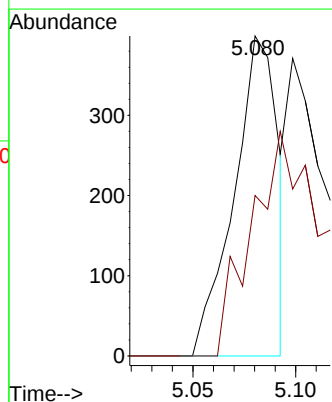
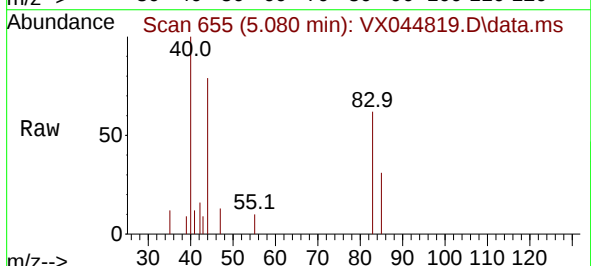
RT: 5.080 min Scan# 655

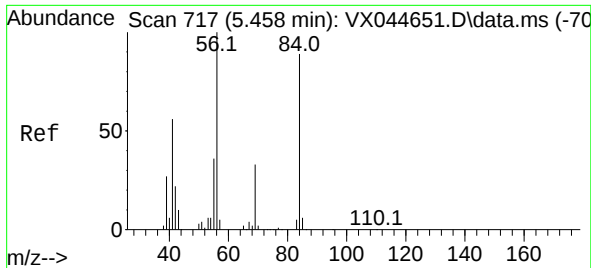
Delta R.T. -0.006 min

Lab File: VX044819.D

Acq: 03 Feb 2025 16:55

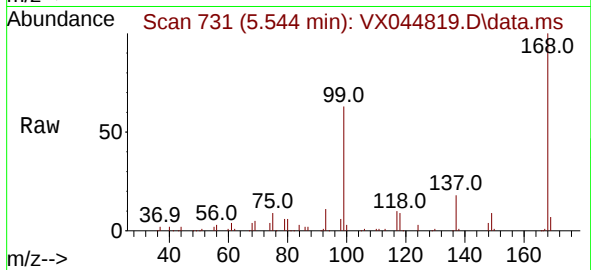
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 592   |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 50.1  | 51.2  | 76.8# |



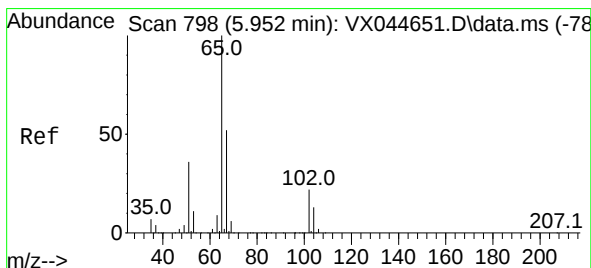
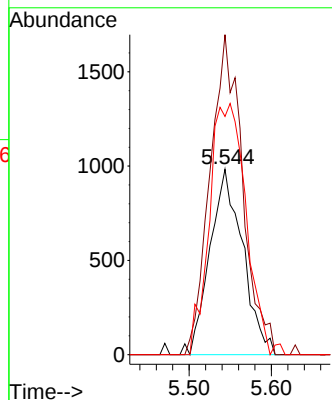
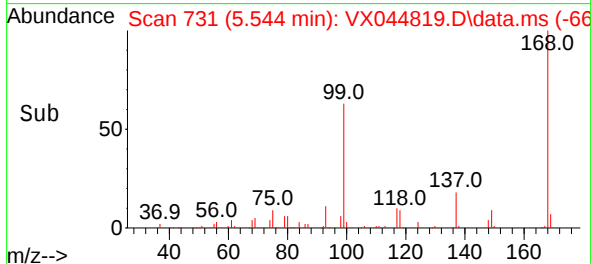


#31  
Cyclohexane  
Concen: 1.241 ug/l  
RT: 5.544 min Scan# 717  
Delta R.T. 0.085 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

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ClientSampleId :

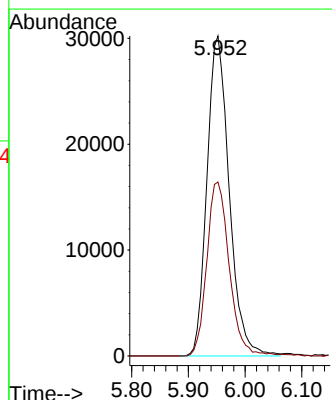
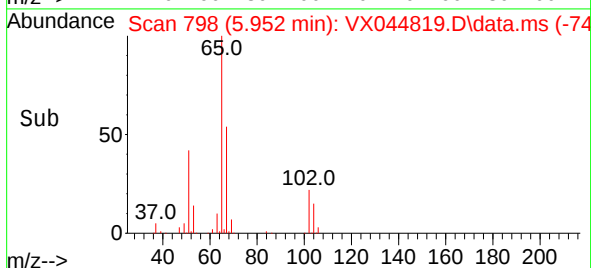
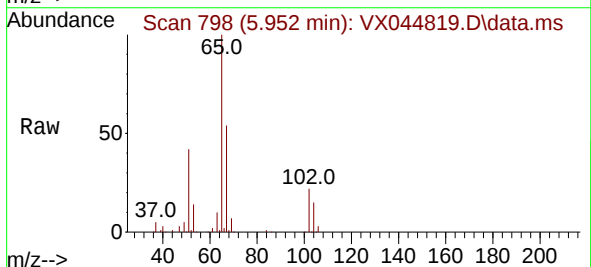


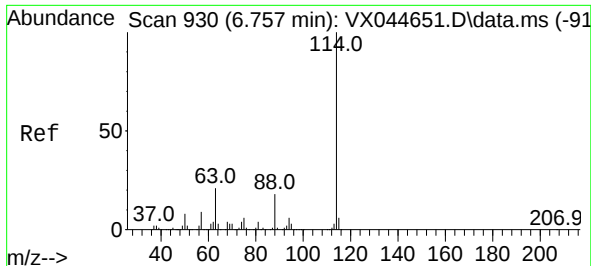
Tgt Ion: 56 Resp: 2724  
Ion Ratio Lower Upper  
56 100  
69 172.6 26.8 40.2#  
84 128.5 71.0 106.4#



#33  
1,2-Dichloroethane-d4  
Concen: 47.253 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

Tgt Ion: 65 Resp: 82379  
Ion Ratio Lower Upper  
65 100  
67 55.1 0.0 103.4

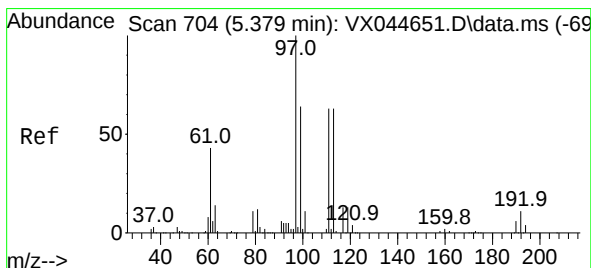
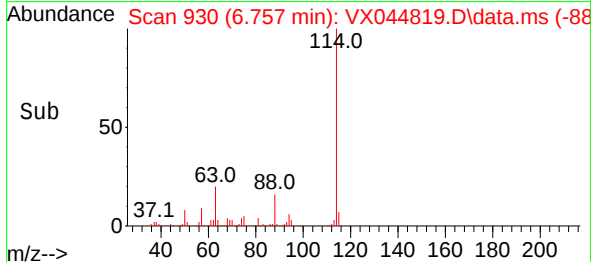
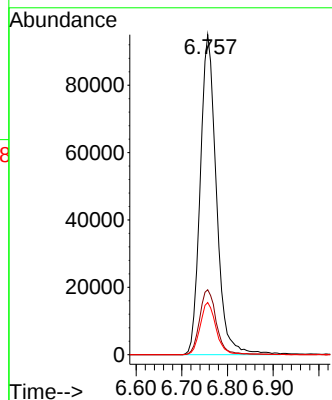
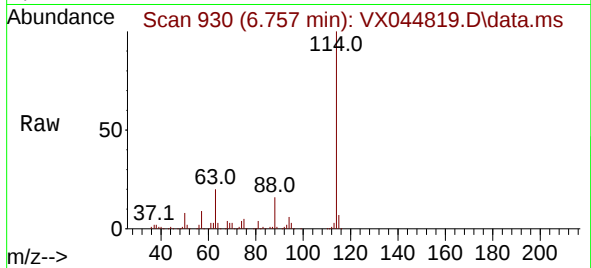




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

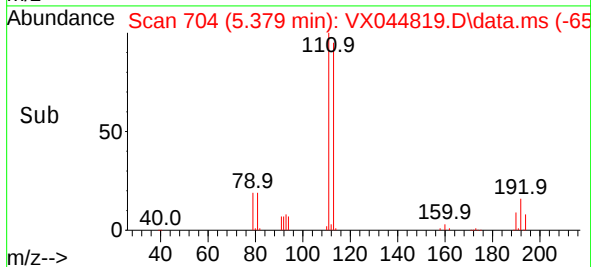
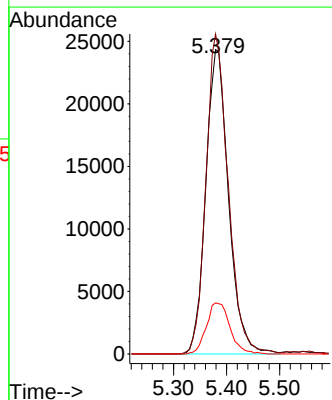
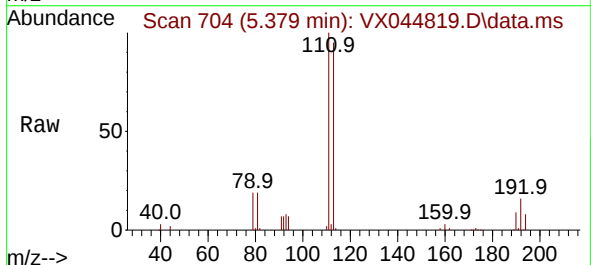
Instrument :  
MSVOA\_X  
ClientSampleId :

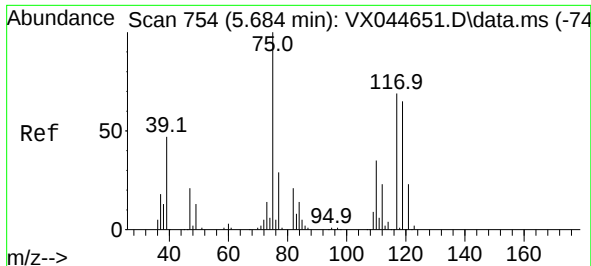
Tgt Ion:114 Resp: 232958  
Ion Ratio Lower Upper  
114 100  
63 20.3 0.0 43.0  
88 16.3 0.0 35.4



#35  
Dibromofluoromethane  
Concen: 49.109 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. -0.000 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

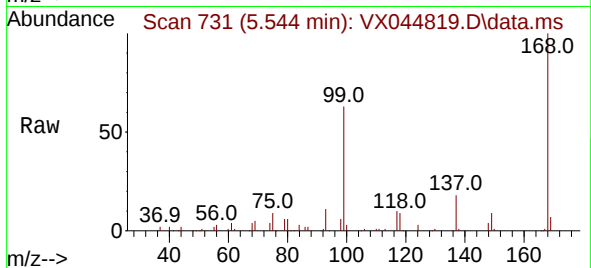
Tgt Ion:113 Resp: 72678  
Ion Ratio Lower Upper  
113 100  
111 102.7 81.6 122.4  
192 17.3 14.4 21.6



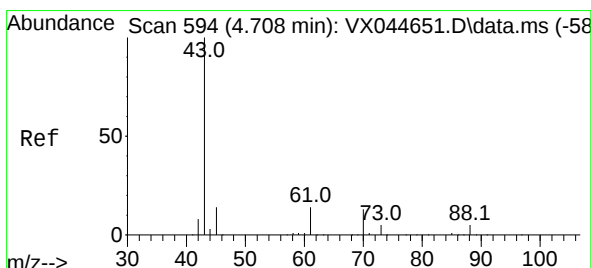
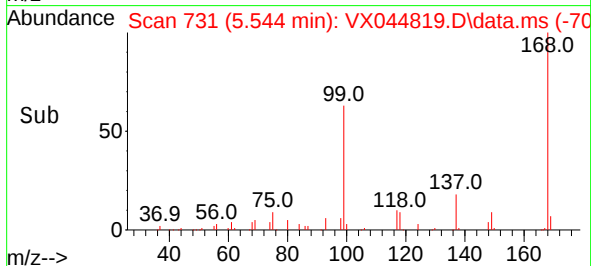
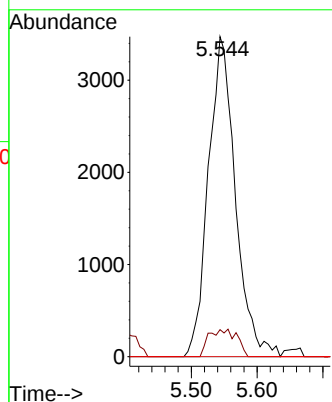


#36  
1,1-Dichloropropene  
Concen: 4.818 ug/l  
RT: 5.544 min Scan# 74  
Delta R.T. -0.140 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

Instrument :  
MSVOA\_X  
ClientSampleId :

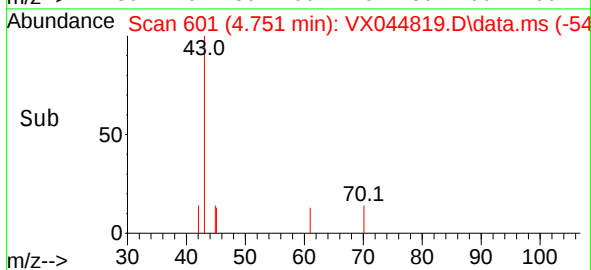
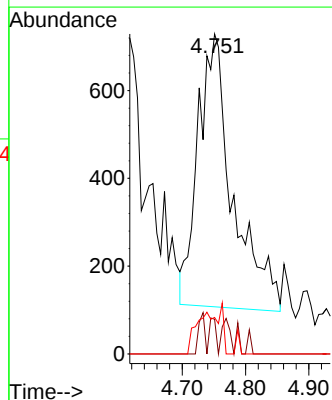
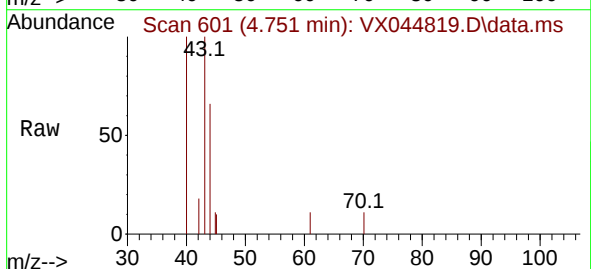


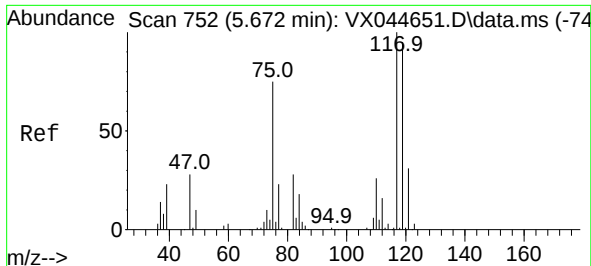
Tgt Ion: 75 Resp: 9925  
Ion Ratio Lower Upper  
75 100  
110 8.9 17.9 53.8#  
77 0.0 24.5 36.7#



#37  
Ethyl Acetate  
Concen: 1.081 ug/l  
RT: 4.751 min Scan# 601  
Delta R.T. 0.043 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

Tgt Ion: 43 Resp: 2371  
Ion Ratio Lower Upper  
43 100  
61 2.5 10.9 16.3#  
70 0.0 10.1 15.1#





#38

Carbon Tetrachloride

Concen: 5.018 ug/l

RT: 5.544 min Scan# 752

Delta R.T. -0.128 min

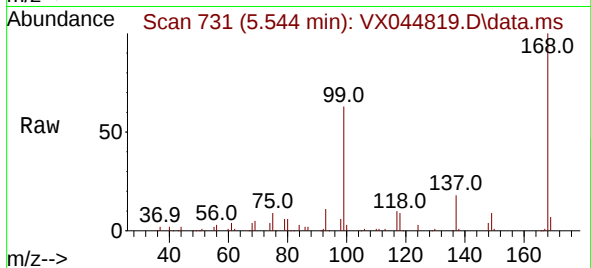
Lab File: VX044819.D

Acq: 03 Feb 2025 16:55

Instrument :

MSVOA\_X

ClientSampleId :



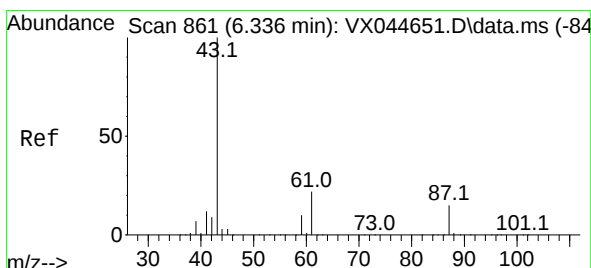
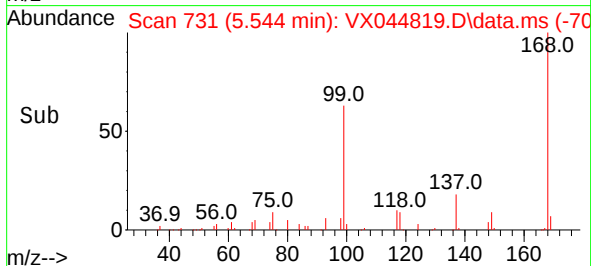
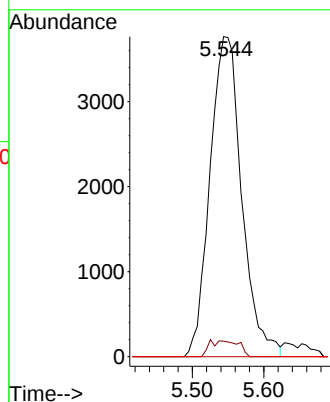
Tgt Ion:117 Resp: 11627

Ion Ratio Lower Upper

117 100

119 4.8 76.0 114.0#

121 0.0 24.6 36.8#



#43

Isopropyl Acetate

Concen: 27.880 ug/l

RT: 6.336 min Scan# 861

Delta R.T. -0.000 min

Lab File: VX044819.D

Acq: 03 Feb 2025 16:55

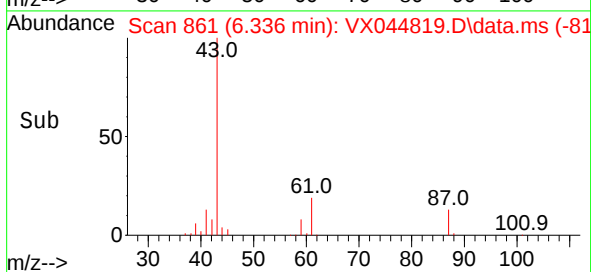
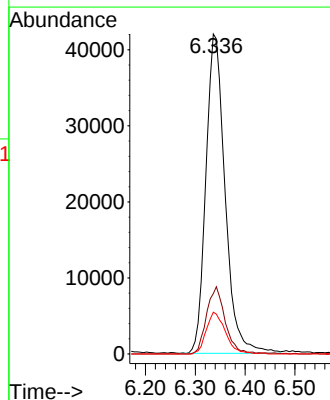
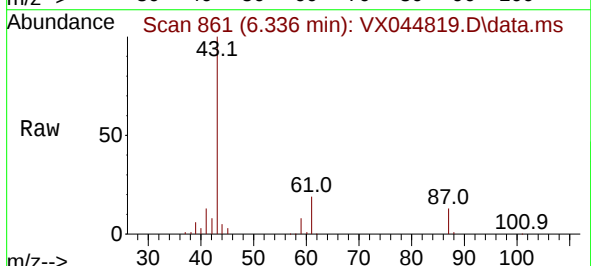
Tgt Ion: 43 Resp: 112520

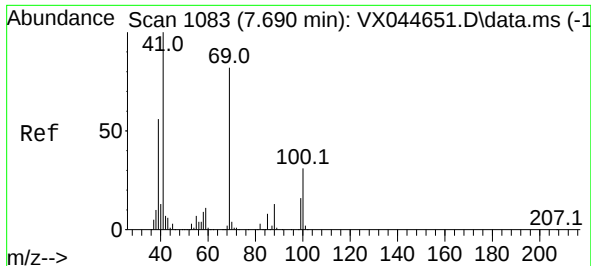
Ion Ratio Lower Upper

43 100

61 20.5 16.6 24.8

87 13.0 11.0 16.6





#48

Methyl methacrylate

Concen: 1.466 ug/l

RT: 7.610 min Scan# 1100

Delta R.T. -0.079 min

Lab File: VX044819.D

Acq: 03 Feb 2025 16:55

Instrument :

MSVOA\_X

ClientSampleId :

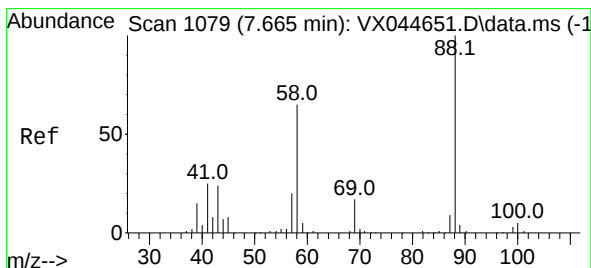
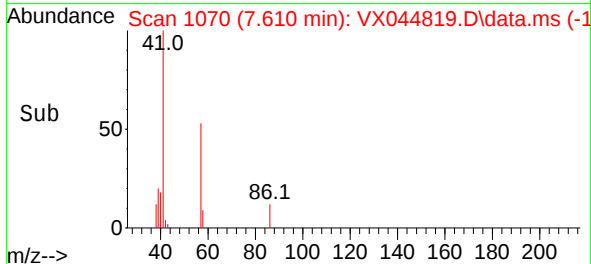
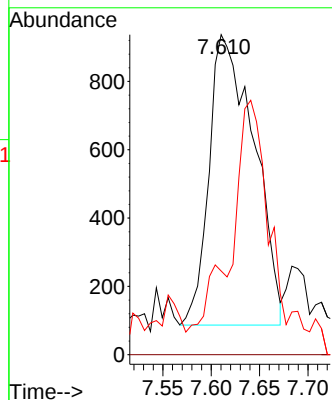
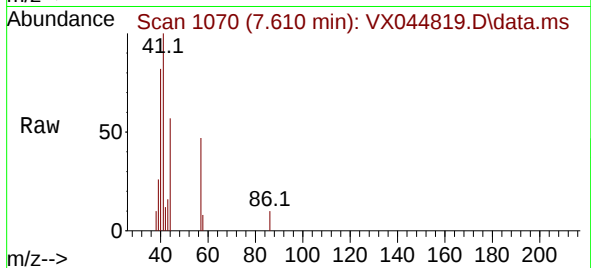
Tgt Ion: 41 Resp: 2746

Ion Ratio Lower Upper

41 100

69 0.0 66.8 100.2#

39 0.0 47.4 71.0#



#49

1,4-Dioxane

Concen: 1.535 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.134 min

Lab File: VX044819.D

Acq: 03 Feb 2025 16:55

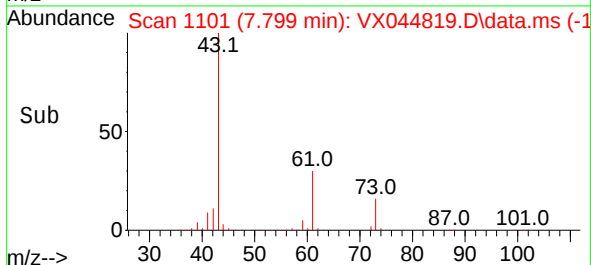
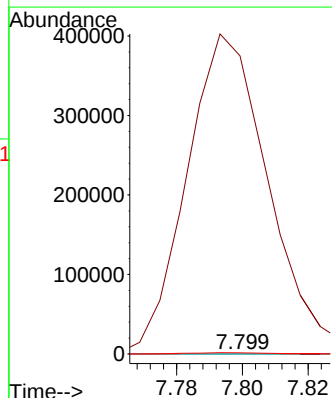
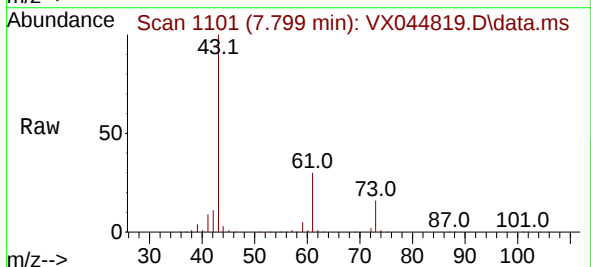
Tgt Ion: 88 Resp: 60

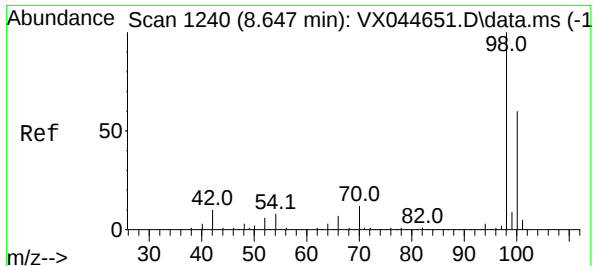
Ion Ratio Lower Upper

88 100

43 1189896.7 27.0 40.4#

58 4586.7 55.8 83.8#





#50

Toluene-d8

Concen: 53.604 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044819.D

Acq: 03 Feb 2025 16:55

Instrument :

MSVOA\_X

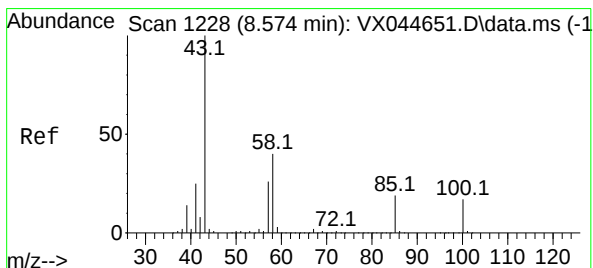
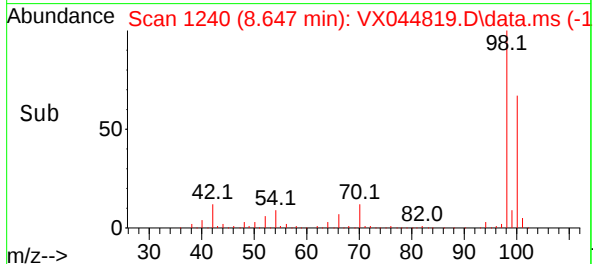
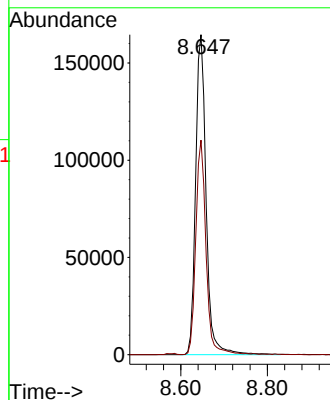
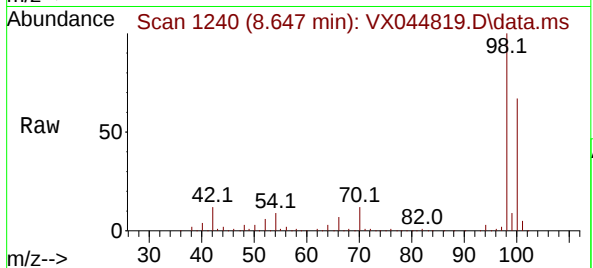
ClientSampleId :

Tgt Ion: 98 Resp: 276609

Ion Ratio Lower Upper

98 100

100 65.3 53.2 79.8



#51

4-Methyl-2-Pentanone

Concen: 39.942 ug/l

RT: 8.543 min Scan# 1223

Delta R.T. -0.030 min

Lab File: VX044819.D

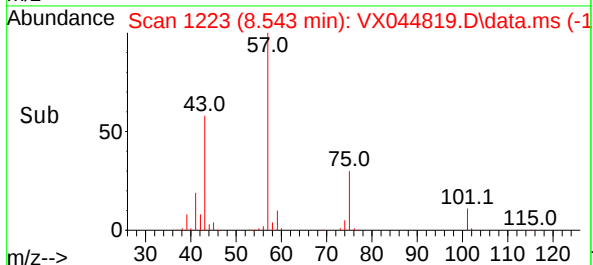
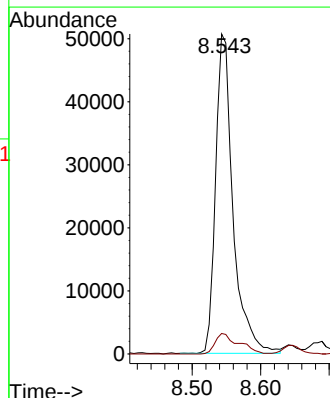
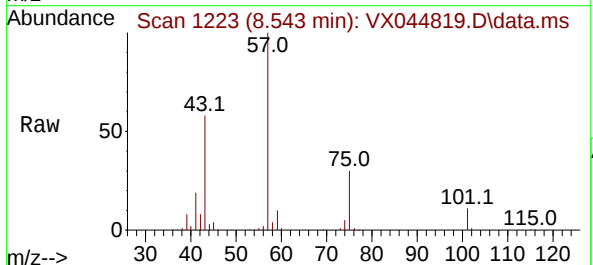
Acq: 03 Feb 2025 16:55

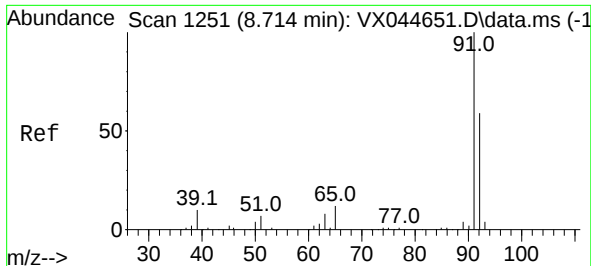
Tgt Ion: 43 Resp: 89084

Ion Ratio Lower Upper

43 100

58 8.8 31.9 47.9#





#52

Toluene

Concen: 0.221 ug/l

RT: 8.720 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX044819.D

Acq: 03 Feb 2025 16:55

Instrument :

MSVOA\_X

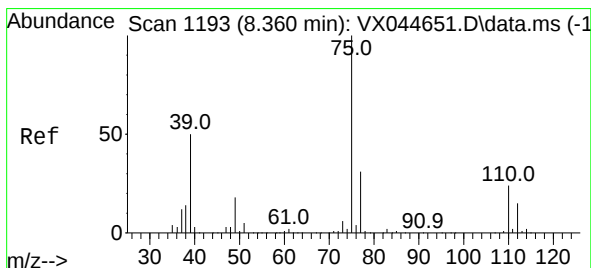
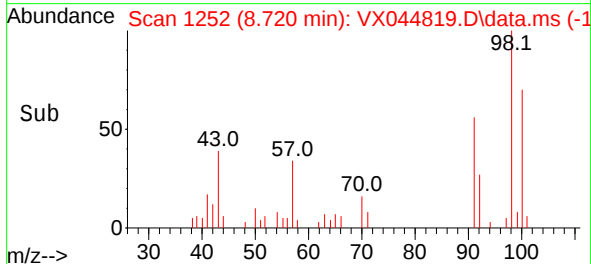
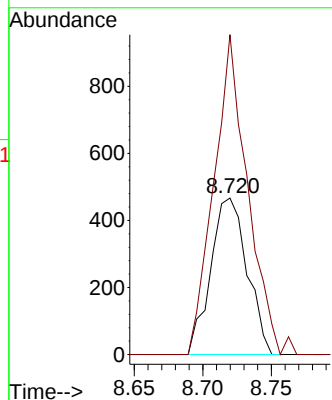
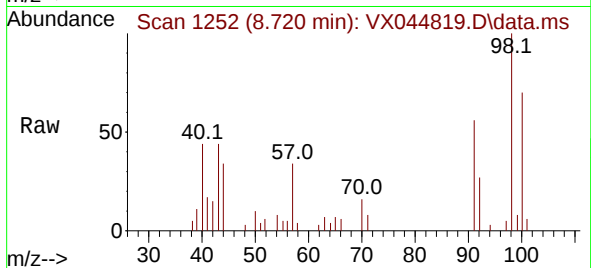
ClientSampleId :

Tgt Ion: 92 Resp: 864

Ion Ratio Lower Upper

92 100

91 189.9 135.7 203.5



#54

cis-1,3-Dichloropropene

Concen: 14.925 ug/l

RT: 8.543 min Scan# 1223

Delta R.T. 0.183 min

Lab File: VX044819.D

Acq: 03 Feb 2025 16:55

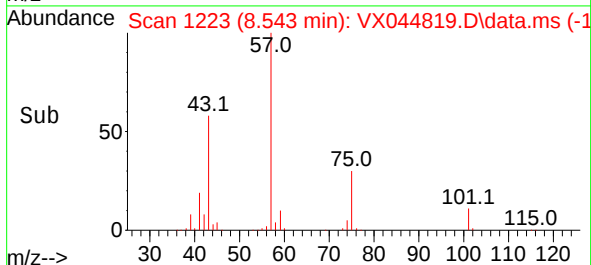
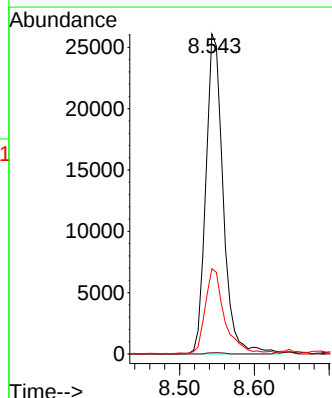
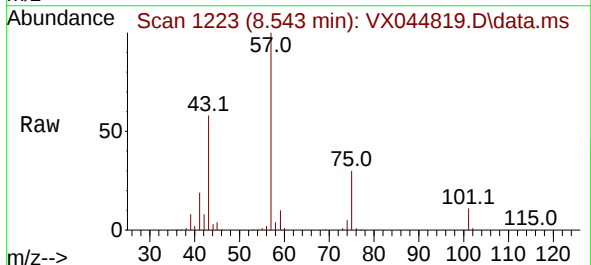
Tgt Ion: 75 Resp: 41946

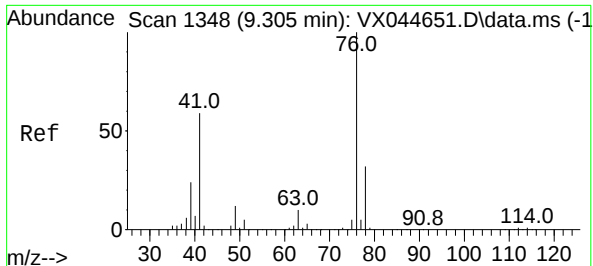
Ion Ratio Lower Upper

75 100

77 0.3 25.1 37.7#

39 26.3 40.3 60.5#

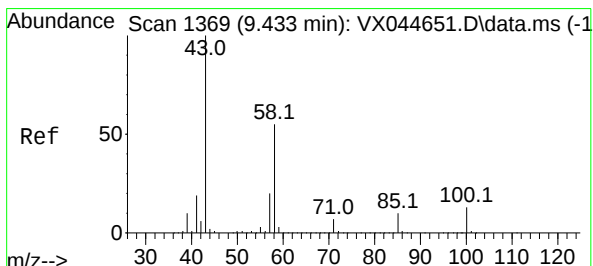
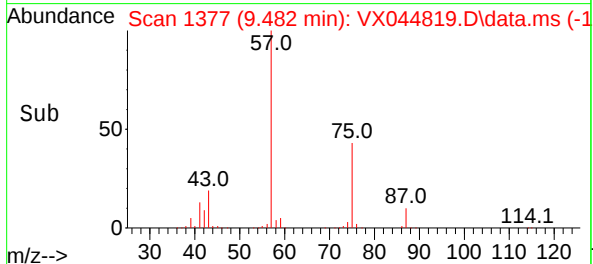
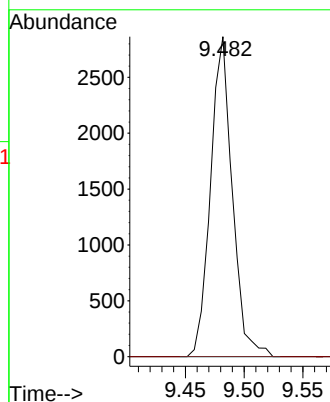
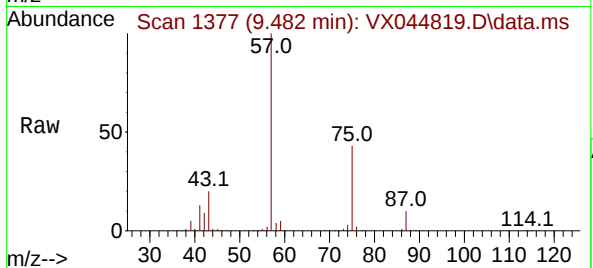




#57  
1,3-Dichloropropane  
Concen: 1.371 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.177 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

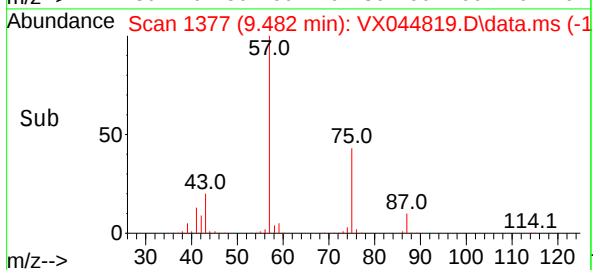
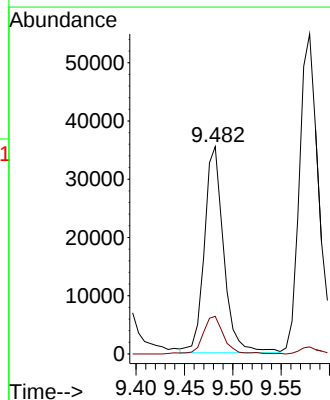
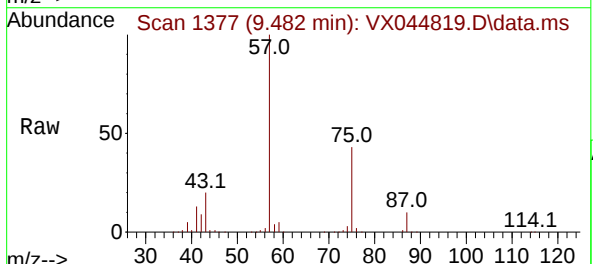
Instrument :  
MSVOA\_X  
ClientSampleId :

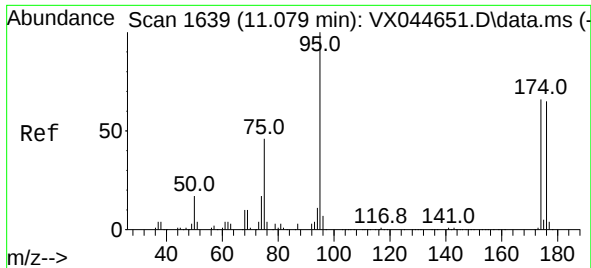
Tgt Ion: 76 Resp: 3690  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.0 39.0#



#59  
2-Hexanone  
Concen: 30.066 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.049 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

Tgt Ion: 43 Resp: 49335  
Ion Ratio Lower Upper  
43 100  
58 19.8 27.8 83.3#





#62

4-Bromofluorobenzene

Concen: 48.867 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044819.D

Acq: 03 Feb 2025 16:55

Instrument :

MSVOA\_X

ClientSampleId :

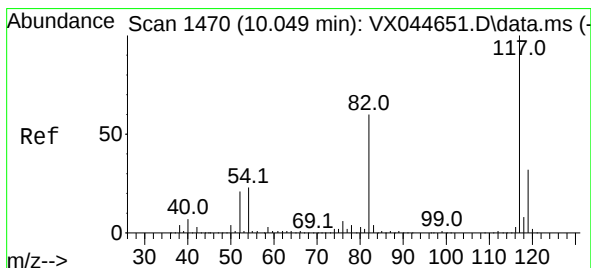
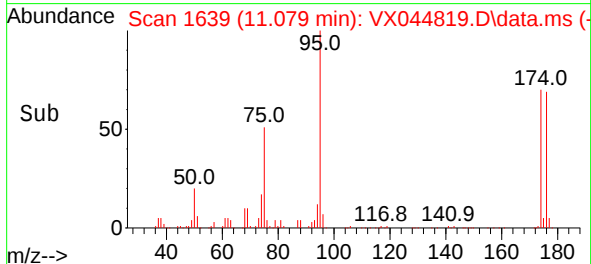
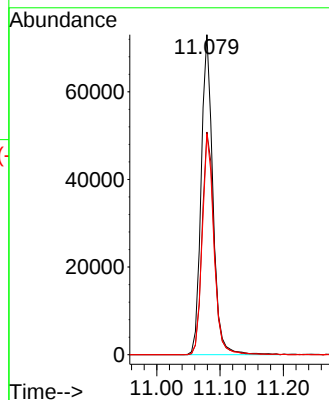
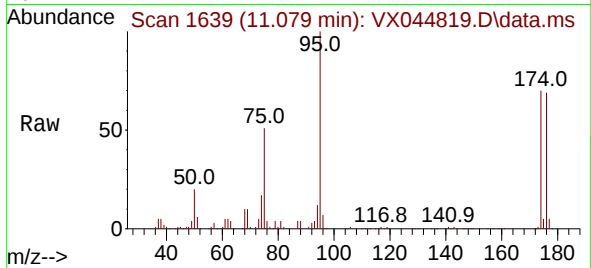
Tgt Ion: 95 Resp: 94005

Ion Ratio Lower Upper

95 100

174 71.5 0.0 133.0

176 69.1 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: VX044819.D

Acq: 03 Feb 2025 16:55

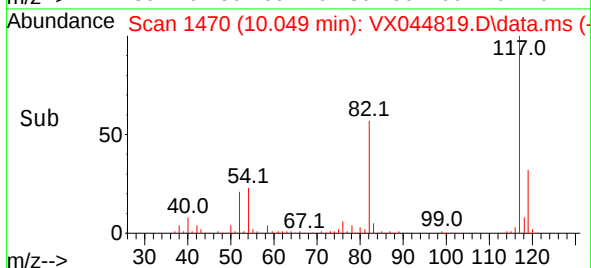
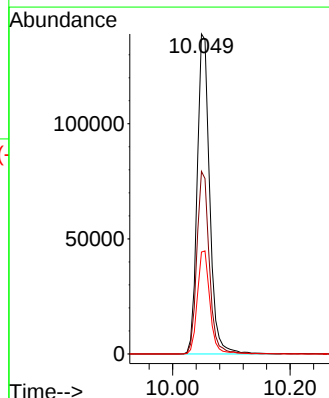
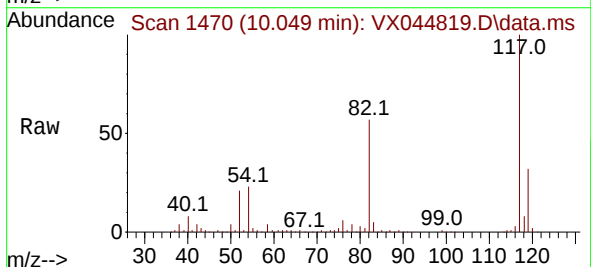
Tgt Ion: 117 Resp: 204621

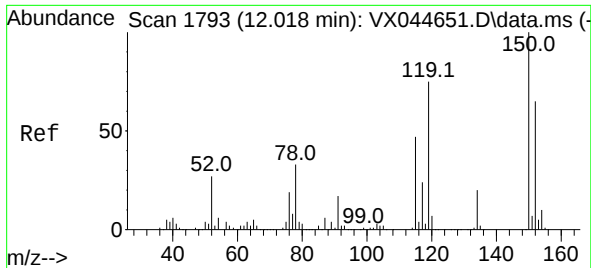
Ion Ratio Lower Upper

117 100

82 57.0 47.6 71.4

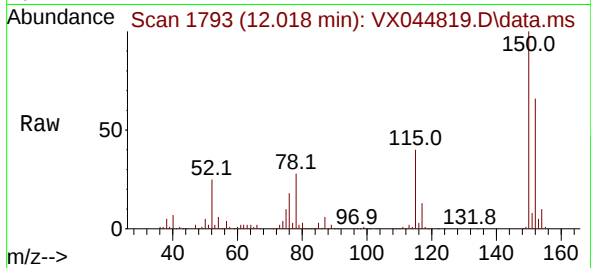
119 31.9 25.4 38.2



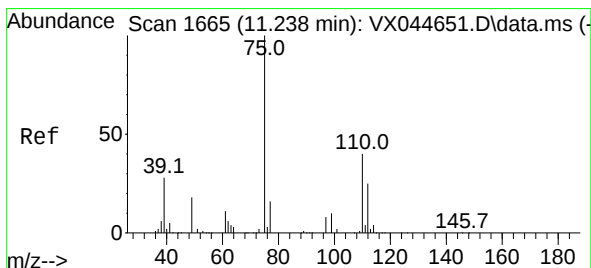
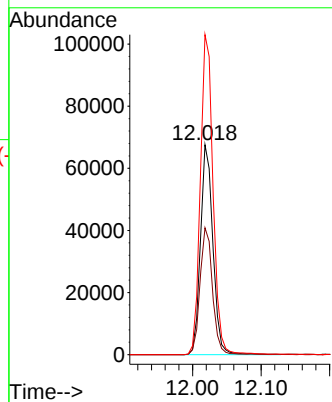
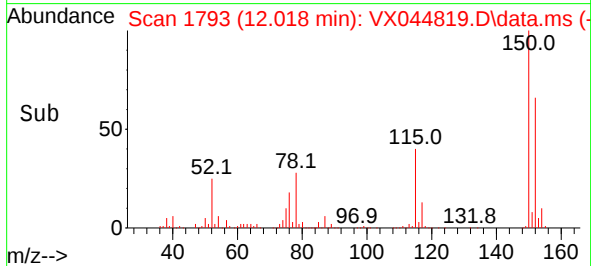


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

Instrument :  
MSVOA\_X  
ClientSampleId :

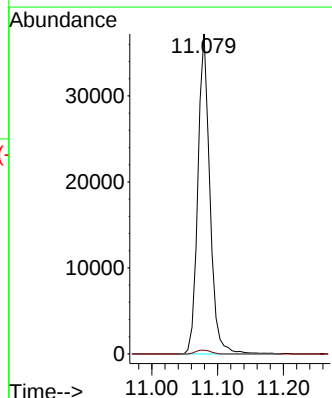
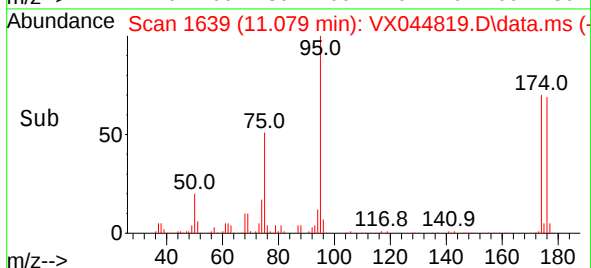
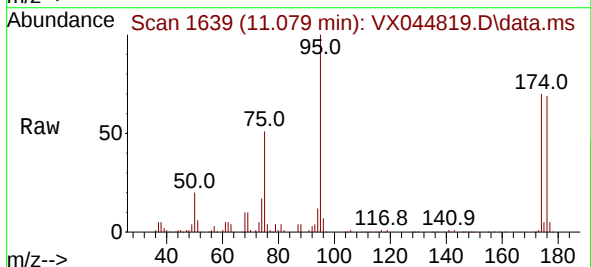


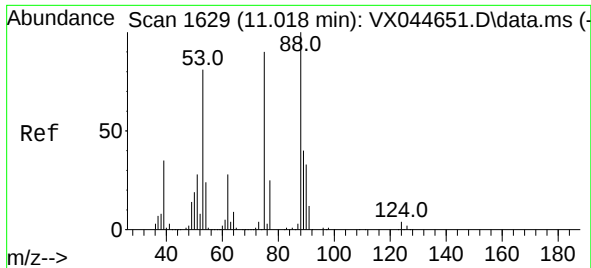
Tgt Ion:152 Resp: 85623  
Ion Ratio Lower Upper  
152 100  
115 60.9 43.8 131.4  
150 155.7 0.0 347.8



#76  
1,2,3-Trichloropropane  
Concen: 22.712 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

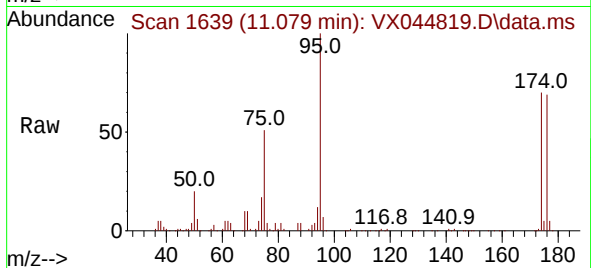
Tgt Ion: 75 Resp: 47195  
Ion Ratio Lower Upper  
75 100  
77 1.5 23.4 70.2#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 51.940 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX044819.D  
Acq: 03 Feb 2025 16:55

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 75 Resp: 47195  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.3 111.5#  
89 0.0 37.4 56.0#

