

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU053123\  
 Data File : VU054355.D  
 Acq On : 31 May 2023 22:32  
 Operator : JC/MD  
 Sample : VU0530MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_U/MEOH  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0531MBL01

Quant Time: Jun 01 06:11:39 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U052523W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 26 06:40:51 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.369  | 168  | 261693   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.244  | 114  | 443898   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.411  | 117  | 425475   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.806 | 152  | 206741   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 5.694  | 65    | 180841   | 52.715   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | = 105.440% |      |
| 35) Dibromofluoromethane    | 5.282  | 113   | 150198   | 52.542   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 105.080% |      |
| 50) Toluene-d8              | 7.893  | 98    | 551010   | 50.676   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | = 101.360% |      |
| 62) 4-Bromofluorobenzene    | 10.626 | 95    | 193659   | 45.934   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | = 91.860%  |      |

|                              |        |     |       |        |        |    |
|------------------------------|--------|-----|-------|--------|--------|----|
| Target Compounds             |        |     |       | Qvalue |        |    |
| 3) Chloromethane             | 1.517  | 50  | 1058  | 0.277  | ug/l   | 90 |
| 4) Vinyl Chloride            | 1.604  | 62  | 1421  | 0.389  | ug/l # | 79 |
| 5) Bromomethane              | 1.845  | 94  | 1204  | 0.596  | ug/l # | 70 |
| 6) Chloroethane              | 1.922  | 64  | 450   | 0.256  | ug/l # | 72 |
| 10) Methyl Iodide            | 2.716  | 142 | 859   | 2.583  | ug/l # | 90 |
| 11) Tert butyl alcohol       | 3.179  | 59  | 1489  | 1.607  | ug/l # | 37 |
| 12) 1,1-Dichloroethene       | 2.578  | 96  | 1051  | 0.373  | ug/l # | 79 |
| 13) Acrolein                 | 2.482  | 56  | 507   | 0.526  | ug/l   | 96 |
| 14) Allyl chloride           | 2.919  | 41  | 1449  | 0.297  | ug/l   | 94 |
| 15) Acrylonitrile            | 3.334  | 53  | 950   | 0.457  | ug/l # | 77 |
| 16) Acetone                  | 2.633  | 43  | 2060  | 1.048  | ug/l # | 79 |
| 17) Carbon Disulfide         | 2.790  | 76  | 6955  | 0.836  | ug/l   | 96 |
| 18) Methyl Acetate           | 2.964  | 43  | 3026  | 0.421  | ug/l # | 63 |
| 20) Methylene Chloride       | 3.044  | 84  | 2806  | 0.791  | ug/l # | 83 |
| 21) trans-1,2-Dichloroethene | 3.353  | 96  | 1821  | 0.604  | ug/l   | 86 |
| 27) cis-1,2-Dichloroethene   | 4.668  | 96  | 911   | 0.272  | ug/l   | 95 |
| 29) Tetrahydrofuran          | 5.064  | 42  | 455   | 0.278  | ug/l # | 62 |
| 31) Cyclohexane              | 5.369  | 56  | 5558  | 1.147  | ug/l # | 1  |
| 36) 1,1-Dichloropropene      | 5.533  | 75  | 1950  | 0.434  | ug/l # | 67 |
| 38) Carbon Tetrachloride     | 5.366  | 117 | 25060 | 5.453  | ug/l # | 15 |
| 44) Trichloroethene          | 6.539  | 130 | 1827  | 0.510  | ug/l   | 85 |
| 46) Dibromomethane           | 6.919  | 93  | 590   | 0.240  | ug/l   | 86 |
| 49) 1,4-Dioxane              | 6.993  | 88  | 140   | 1.449  | ug/l # | 58 |
| 51) 4-Methyl-2-Pentanone     | 7.790  | 43  | 4447  | 0.883  | ug/l   | 98 |
| 52) Toluene                  | 7.964  | 92  | 1974  | 0.242  | ug/l   | 96 |
| 53) t-1,3-Dichloropropene    | 8.205  | 75  | 1583  | 0.301  | ug/l # | 85 |
| 54) cis-1,3-Dichloropropene  | 7.610  | 75  | 1233  | 0.225  | ug/l   | 90 |
| 59) 2-Hexanone               | 8.687  | 43  | 6724  | 1.690  | ug/l   | 87 |
| 61) 1,2-Dibromoethane        | 8.922  | 107 | 760   | 0.206  | ug/l   | 89 |
| 64) Tetrachloroethene        | 8.552  | 164 | 1282  | 0.400  | ug/l   | 94 |
| 65) Chlorobenzene            | 9.440  | 112 | 3551  | 0.399  | ug/l   | 92 |
| 67) Ethyl Benzene            | 9.565  | 91  | 4596  | 0.302  | ug/l   | 96 |
| 68) m/p-Xylenes              | 9.694  | 106 | 3452  | 0.599  | ug/l   | 82 |
| 69) o-Xylene                 | 10.102 | 106 | 1389  | 0.249  | ug/l   | 97 |
| 70) Styrene                  | 10.115 | 104 | 3707  | 0.401  | ug/l   | 98 |
| 73) Isopropylbenzene         | 10.481 | 105 | 4261  | 0.333  | ug/l   | 93 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU053123\  
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 Operator : JC/MD  
 Sample : VU0530MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_U/MEOH  
 ALS Vial : 30 Sample Multiplier: 1

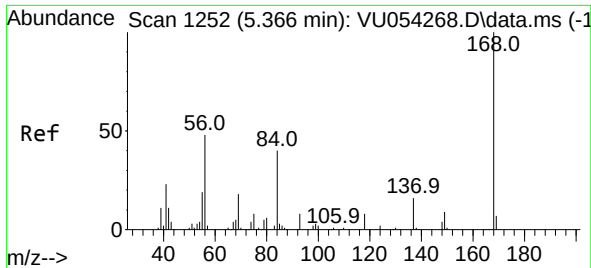
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0531MBL01

Quant Time: Jun 01 06:11:39 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U052523W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 26 06:40:51 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| 74) N-amyl acetate            | 10.317 | 43   | 3973     | 0.731  | ug/l   | 91       |
| 76) 1,2,3-Trichloropropane    | 10.626 | 75   | 95441    | 15.817 | ug/l # | 45       |
| 77) Bromobenzene              | 10.784 | 156  | 2536     | 0.721  | ug/l   | 90       |
| 78) n-propylbenzene           | 10.903 | 91   | 8375     | 0.534  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 10.983 | 91   | 4350     | 0.458  | ug/l   | 87       |
| 80) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 3838     | 0.352  | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-b... | 10.626 | 75   | 95441    | 60.232 | ug/l # | 15       |
| 82) 4-Chlorotoluene           | 11.096 | 91   | 7104     | 0.638  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 11.414 | 119  | 3389     | 0.311  | ug/l   | 81       |
| 84) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 4245     | 0.392  | ug/l   | 93       |
| 85) sec-Butylbenzene          | 11.639 | 105  | 6720     | 0.486  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 11.790 | 119  | 5985     | 0.515  | ug/l   | 90       |
| 87) 1,3-Dichlorobenzene       | 11.748 | 146  | 5573     | 0.819  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene       | 11.748 | 146  | 5573     | 0.784  | ug/l   | 94       |
| 89) n-Butylbenzene            | 12.205 | 91   | 9533     | 0.872  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 12.211 | 146  | 5327     | 0.795  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 13.005 | 75   | 697      | 0.590  | ug/l   | 82       |
| 93) 1,2,4-Trichlorobenzene    | 13.841 | 180  | 7080     | 3.083  | ug/l   | 91       |
| 94) Hexachlorobutadiene       | 14.012 | 225  | 2285     | 1.840  | ug/l   | 97       |
| 95) Naphthalene               | 14.086 | 128  | 29299    | 3.831  | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 8770     | 3.069  | ug/l   | 97       |
| -----                         |        |      |          |        |        |          |

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

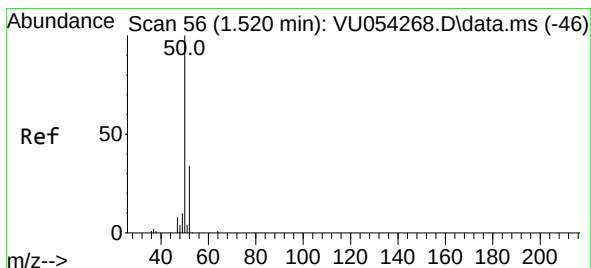
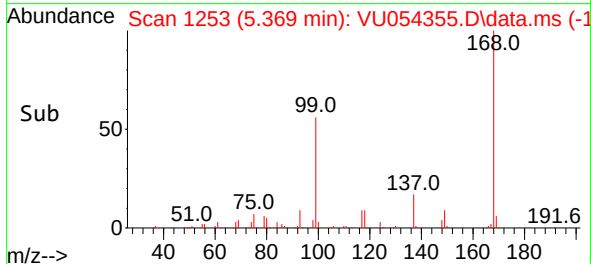
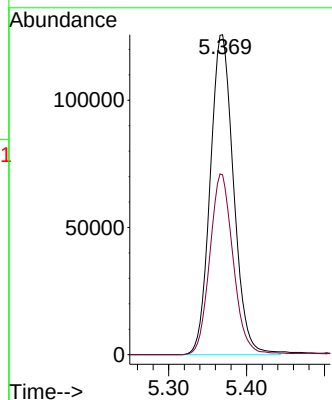
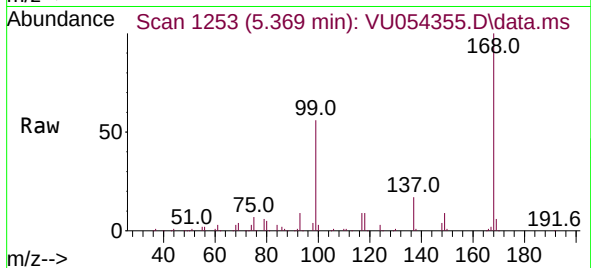




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.369 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

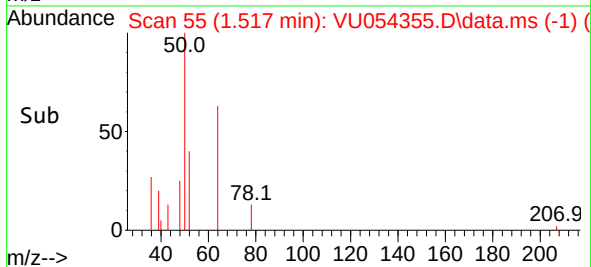
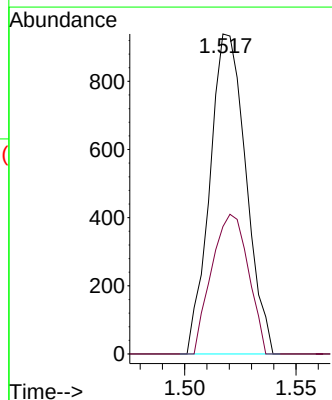
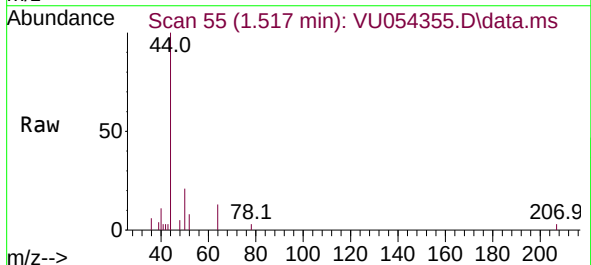
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

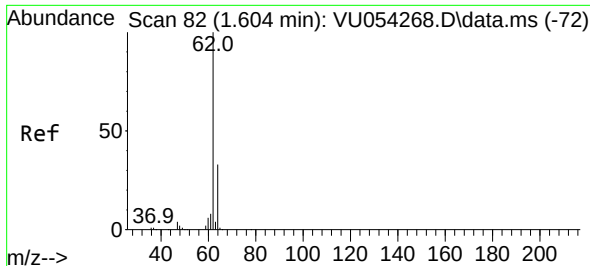
Tgt Ion:168 Resp: 261693  
Ion Ratio Lower Upper  
168 100  
99 56.2 39.3 58.9



#3  
Chloromethane  
Concen: 0.277 ug/l  
RT: 1.517 min Scan# 55  
Delta R.T. -0.003 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion: 50 Resp: 1058  
Ion Ratio Lower Upper  
50 100  
52 39.8 27.4 41.2

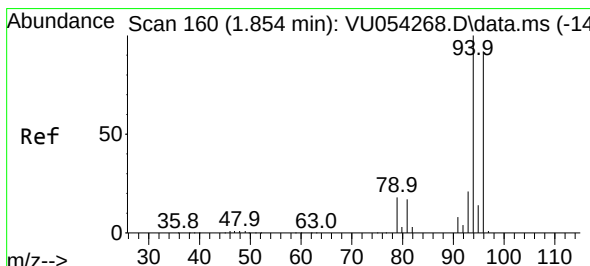
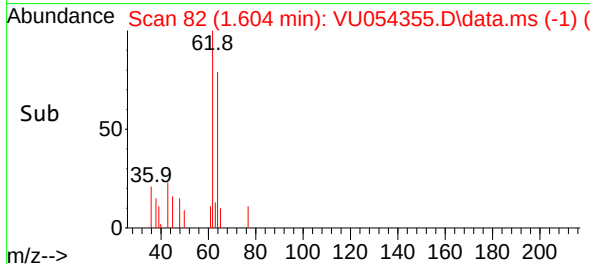
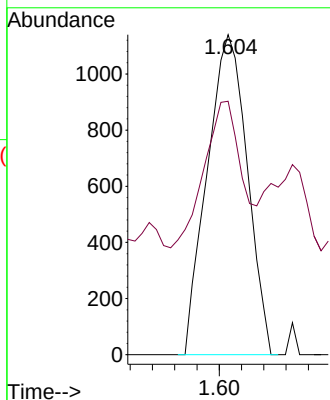
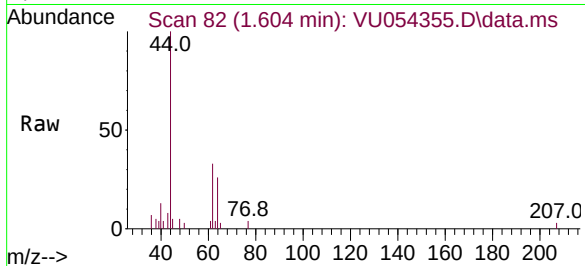




#4  
 Vinyl Chloride  
 Concen: 0.389 ug/l  
 RT: 1.604 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: VU054355.D  
 Acq: 31 May 2023 22:32

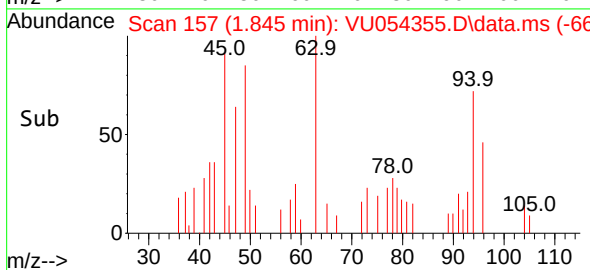
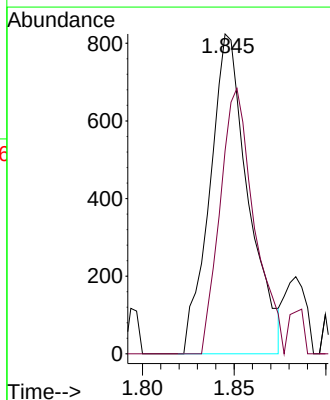
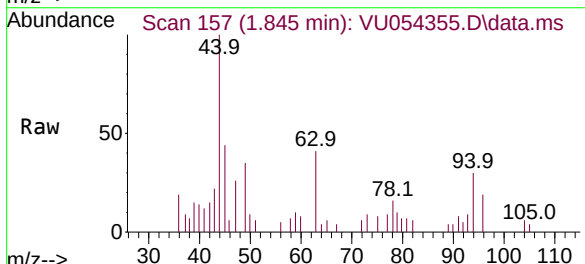
Instrument :  
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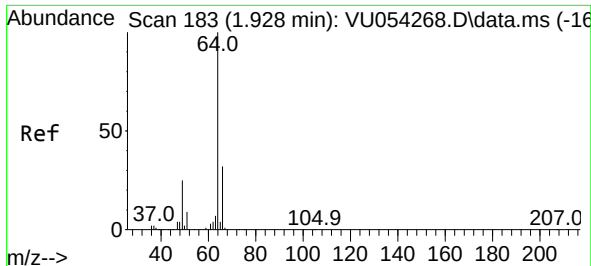
Tgt Ion: 62 Resp: 1421  
 Ion Ratio Lower Upper  
 62 100  
 64 43.3 25.3 37.9#



#5  
 Bromomethane  
 Concen: 0.596 ug/l  
 RT: 1.845 min Scan# 157  
 Delta R.T. -0.009 min  
 Lab File: VU054355.D  
 Acq: 31 May 2023 22:32

Tgt Ion: 94 Resp: 1204  
 Ion Ratio Lower Upper  
 94 100  
 96 63.5 73.7 110.5#

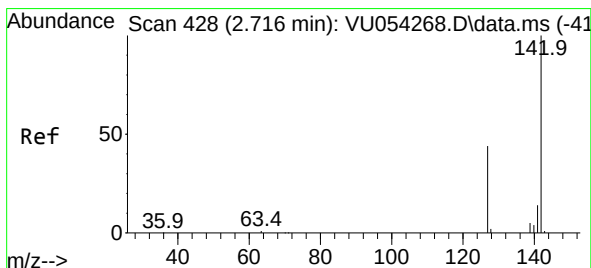
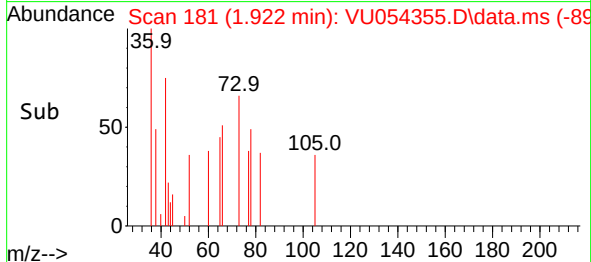
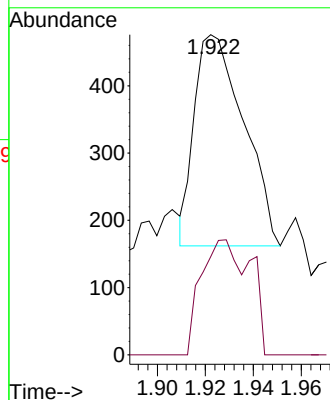
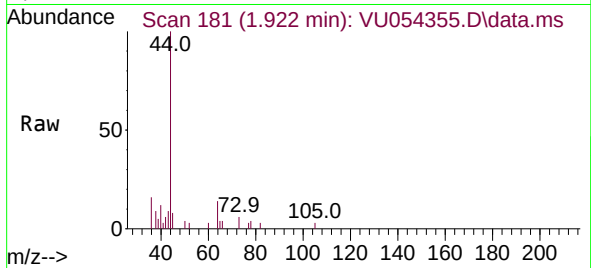




#6  
Chloroethane  
Concen: 0.256 ug/l  
RT: 1.922 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

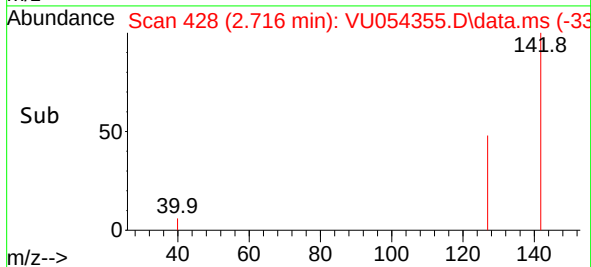
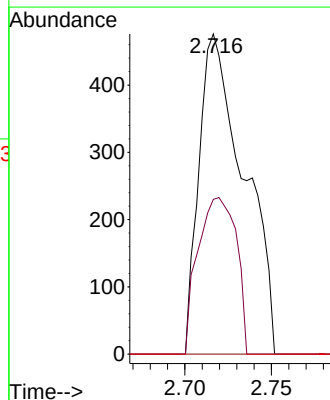
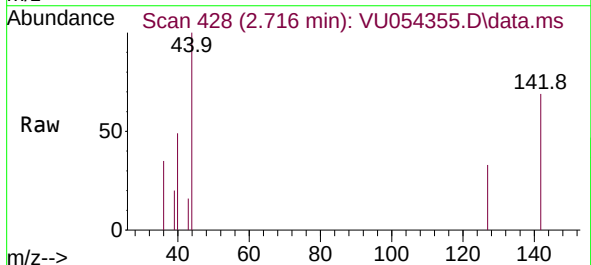
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

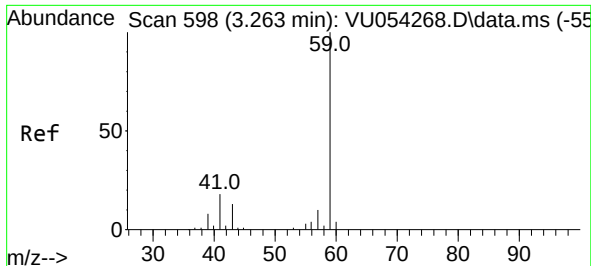
Tgt Ion: 64 Resp: 450  
Ion Ratio Lower Upper  
64 100  
66 46.5 24.7 37.1#



#10  
Methyl Iodide  
Concen: 2.583 ug/l  
RT: 2.716 min Scan# 428  
Delta R.T. 0.000 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion: 142 Resp: 859  
Ion Ratio Lower Upper  
142 100  
127 41.7 32.5 48.7  
141 0.0 11.4 17.0#

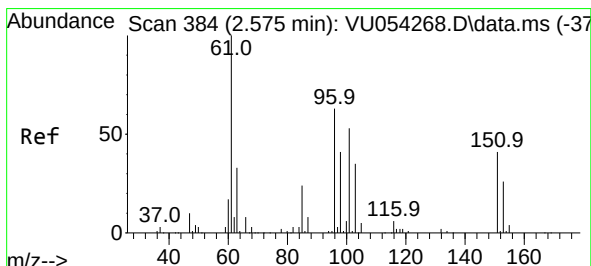
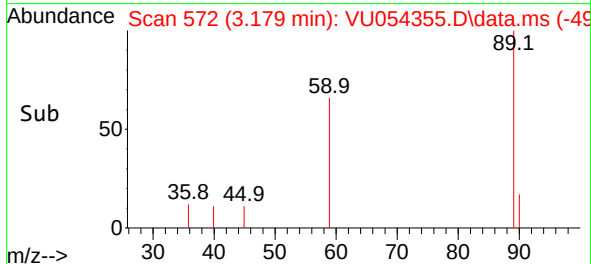
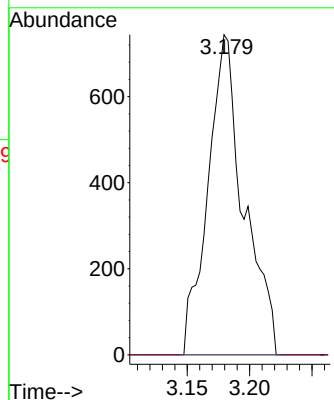
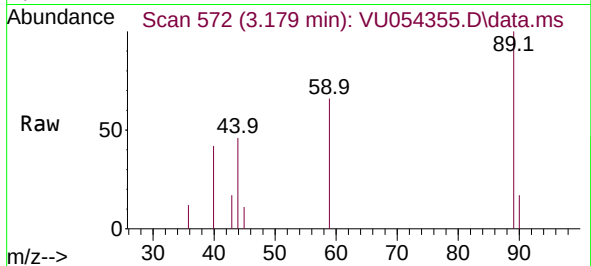




#11  
Tert butyl alcohol  
Concen: 1.607 ug/l  
RT: 3.179 min Scan# 51  
Delta R.T. -0.064 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

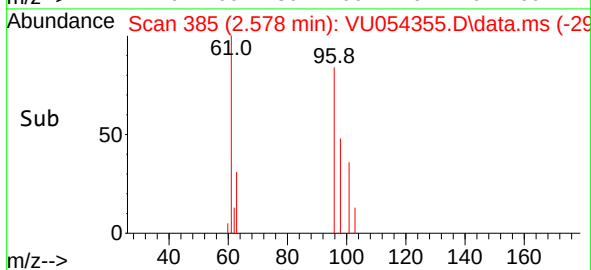
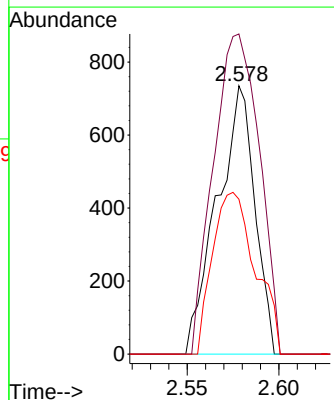
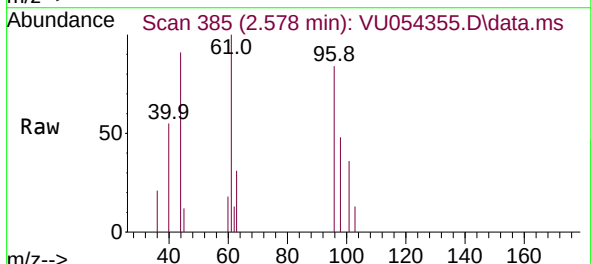
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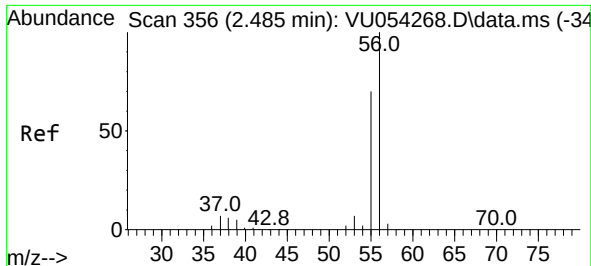
Tgt Ion: 59 Resp: 1489  
Ion Ratio Lower Upper  
59 100  
57 0.0 30.6 45.8#



#12  
1,1-Dichloroethene  
Concen: 0.373 ug/l  
RT: 2.578 min Scan# 385  
Delta R.T. 0.003 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion: 96 Resp: 1051  
Ion Ratio Lower Upper  
96 100  
61 119.3 122.2 183.2#  
98 57.7 50.7 76.1





#13

Acrolein

Concen: 0.526 ug/l

RT: 2.482 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

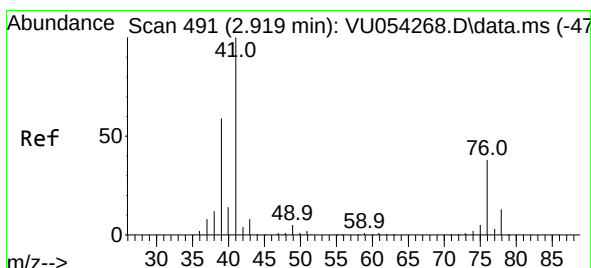
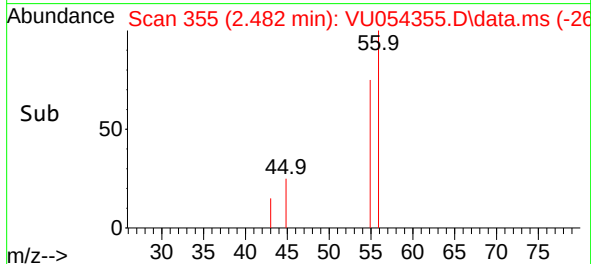
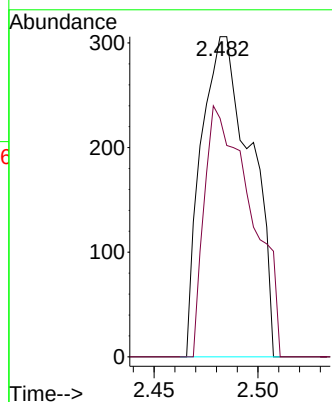
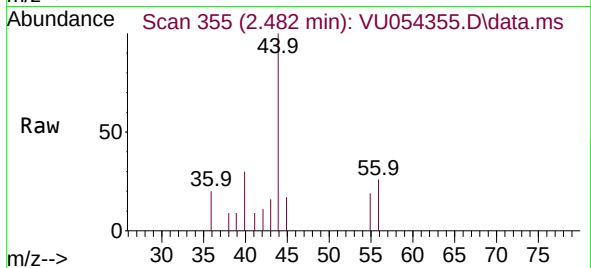
VU0531MBL01

Tgt Ion: 56 Resp: 507

Ion Ratio Lower Upper

56 100

55 74.0 56.6 85.0



#14

Allyl chloride

Concen: 0.297 ug/l

RT: 2.919 min Scan# 491

Delta R.T. 0.000 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

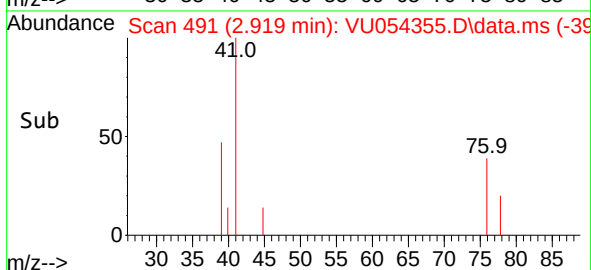
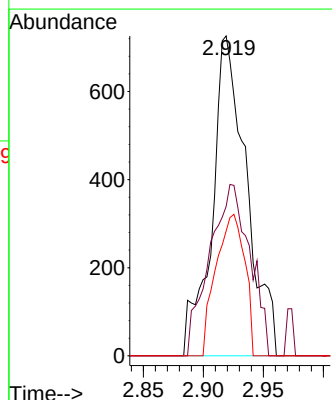
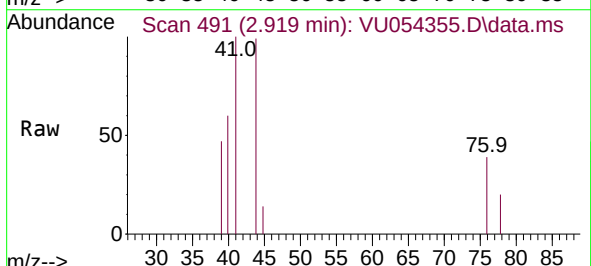
Tgt Ion: 41 Resp: 1449

Ion Ratio Lower Upper

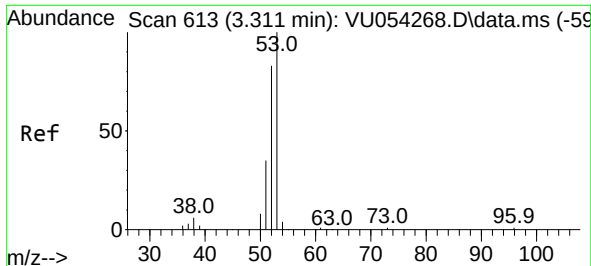
41 100

39 62.7 53.4 80.2

76 36.9 33.8 50.6







#15

Acrylonitrile

Concen: 0.457 ug/l

RT: 3.334 min Scan# 61

Delta R.T. 0.023 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

VU0531MBL01

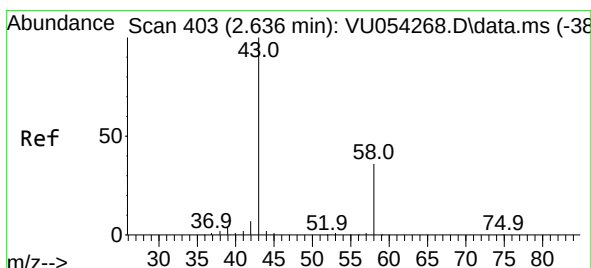
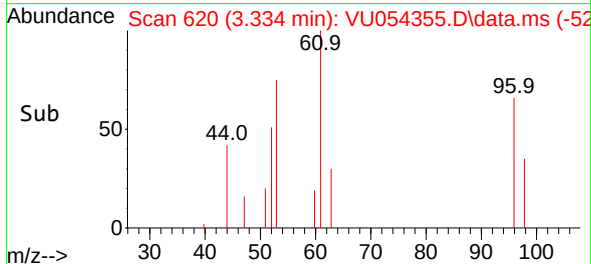
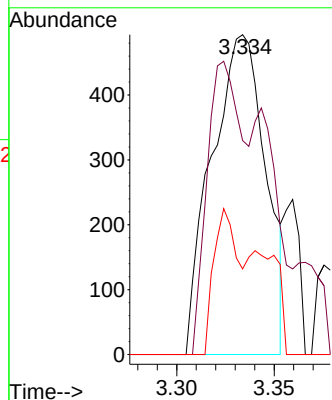
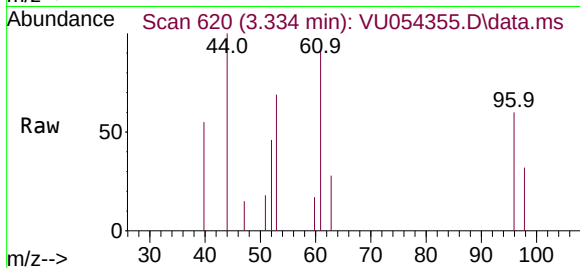
Tgt Ion: 53 Resp: 950

Ion Ratio Lower Upper

53 100

52 62.1 65.7 98.5#

51 20.5 28.2 42.4#



#16

Acetone

Concen: 1.048 ug/l

RT: 2.633 min Scan# 402

Delta R.T. -0.003 min

Lab File: VU054355.D

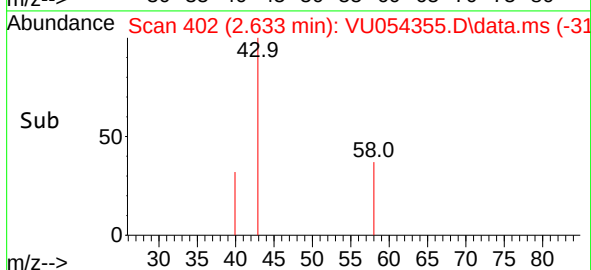
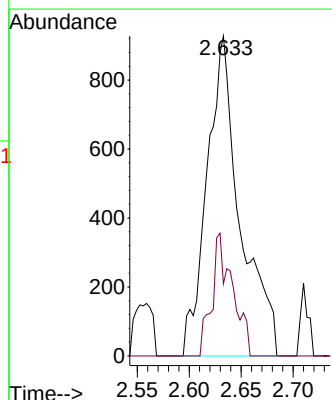
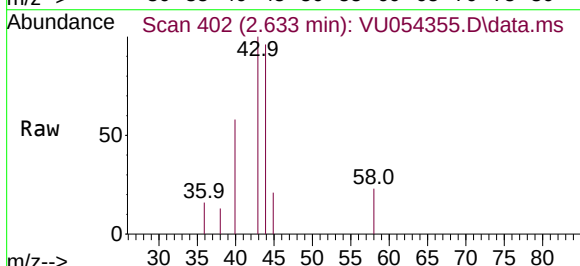
Acq: 31 May 2023 22:32

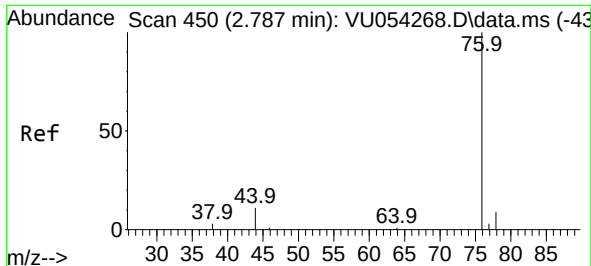
Tgt Ion: 43 Resp: 2060

Ion Ratio Lower Upper

43 100

58 22.5 27.5 41.3#

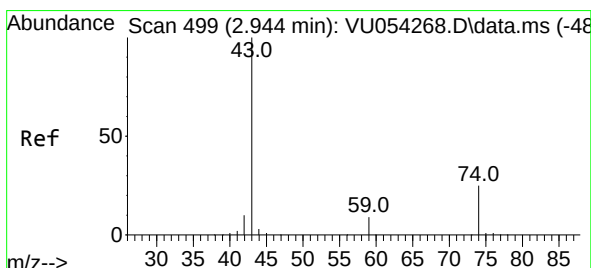
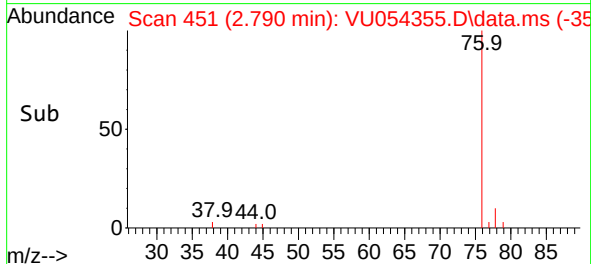
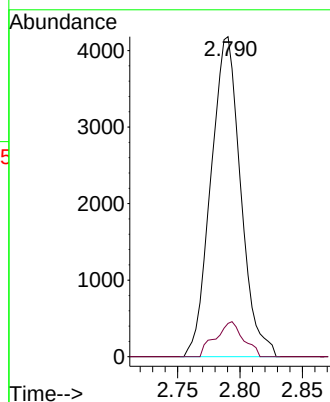
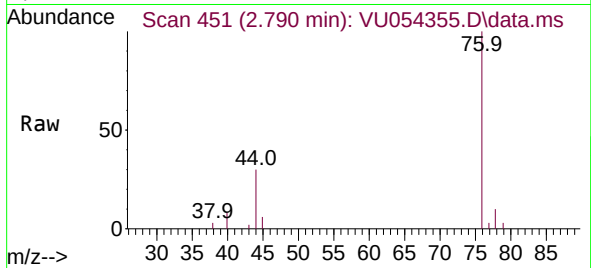




#17  
Carbon Disulfide  
Concen: 0.836 ug/l  
RT: 2.790 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

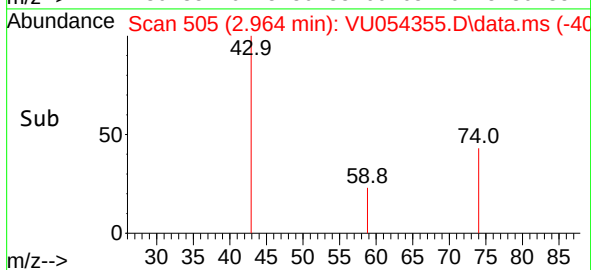
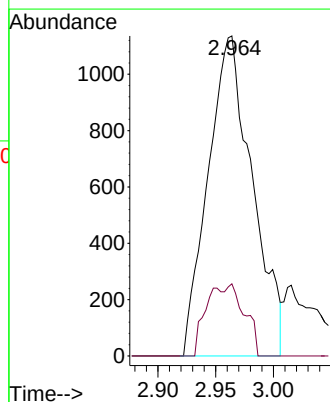
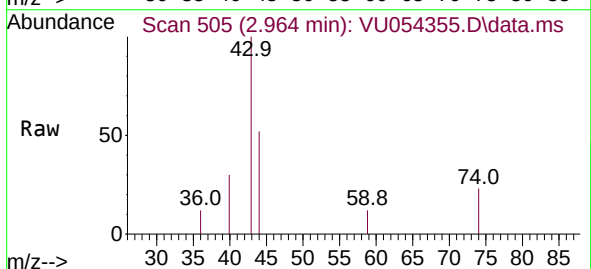
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

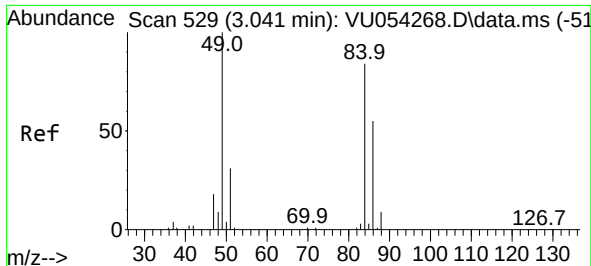
Tgt Ion: 76 Resp: 6955  
Ion Ratio Lower Upper  
76 100  
78 10.4 7.3 10.9



#18  
Methyl Acetate  
Concen: 0.421 ug/l  
RT: 2.964 min Scan# 505  
Delta R.T. 0.020 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion: 43 Resp: 3026  
Ion Ratio Lower Upper  
43 100  
74 8.6 22.5 33.7#



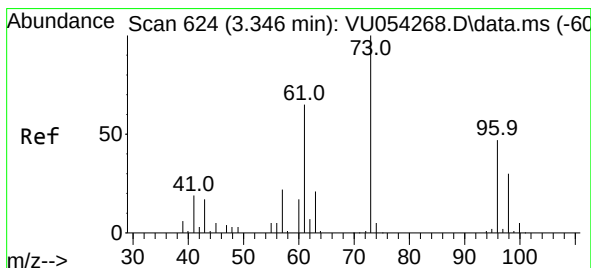
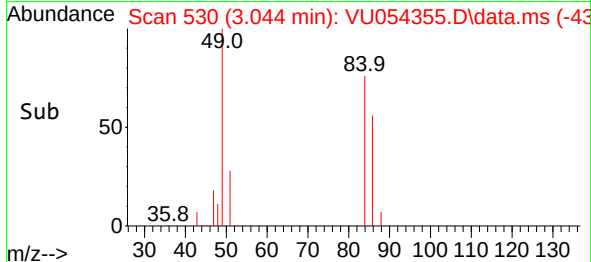
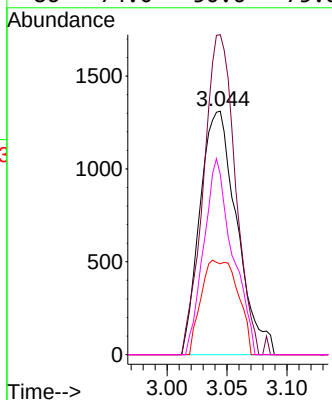
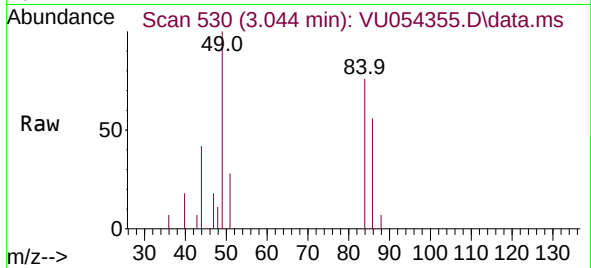


#20  
Methylene Chloride  
Concen: 0.791 ug/l  
RT: 3.044 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

Tgt Ion: 84 Resp: 2806

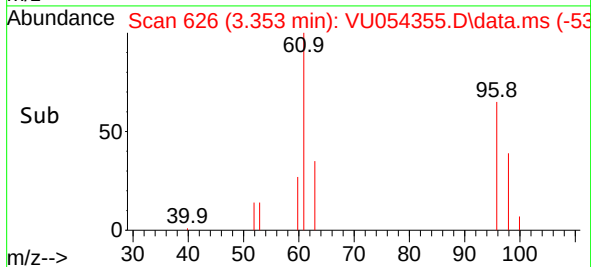
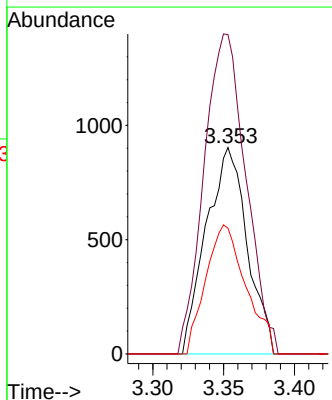
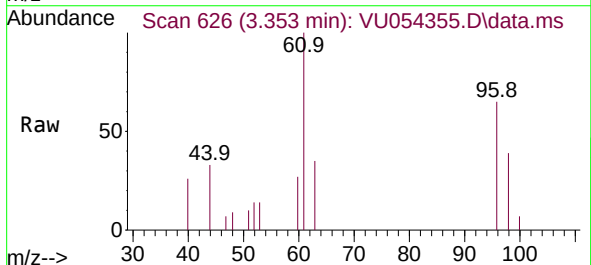
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 131.4 | 86.6  | 129.8# |
| 51  | 37.3  | 26.6  | 40.0   |
| 86  | 74.0  | 50.6  | 75.8   |

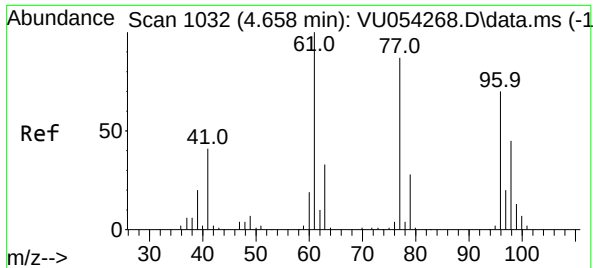


#21  
trans-1,2-Dichloroethene  
Concen: 0.604 ug/l  
RT: 3.353 min Scan# 626  
Delta R.T. 0.007 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion: 96 Resp: 1821

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 154.7 | 106.1 | 159.1 |
| 98  | 60.9  | 50.8  | 76.2  |

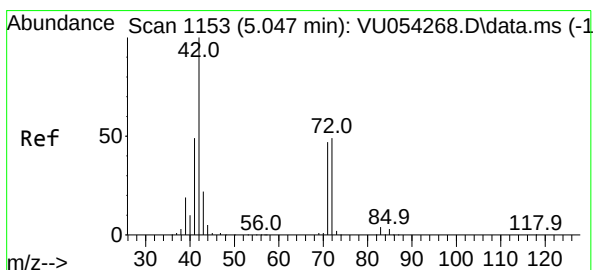
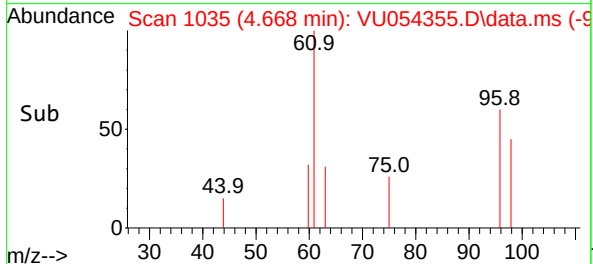
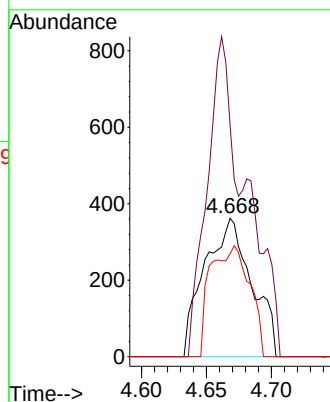
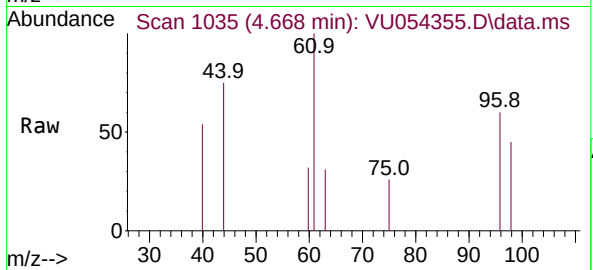




#27  
 cis-1,2-Dichloroethene  
 Concen: 0.272 ug/l  
 RT: 4.668 min Scan# 1032  
 Delta R.T. 0.010 min  
 Lab File: VU054355.D  
 Acq: 31 May 2023 22:32

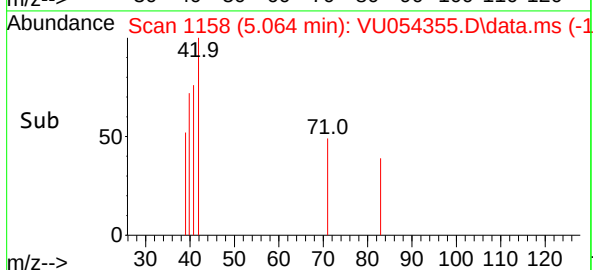
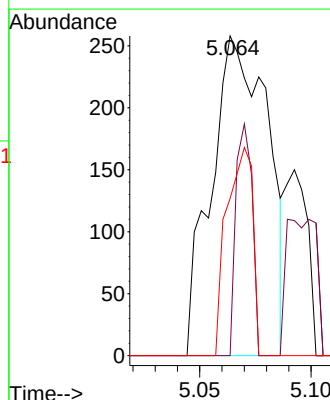
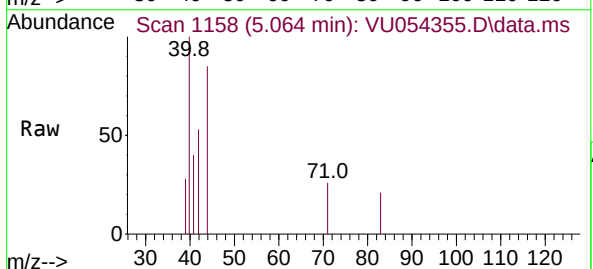
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0531MBL01

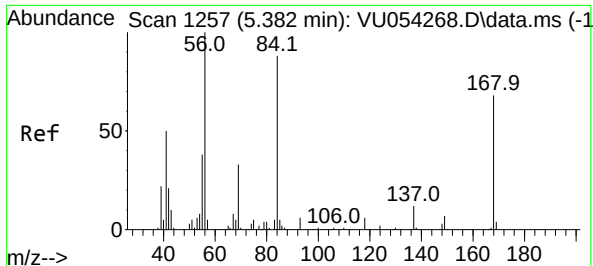
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 911   |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 128.3 | 0.0   | 271.6 |
| 98       | 66.6  | 0.0   | 128.2 |



#29  
 Tetrahydrofuran  
 Concen: 0.278 ug/l  
 RT: 5.064 min Scan# 1158  
 Delta R.T. 0.017 min  
 Lab File: VU054355.D  
 Acq: 31 May 2023 22:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 455   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 20.9  | 42.6  | 63.8# |
| 71       | 29.9  | 40.3  | 60.5# |

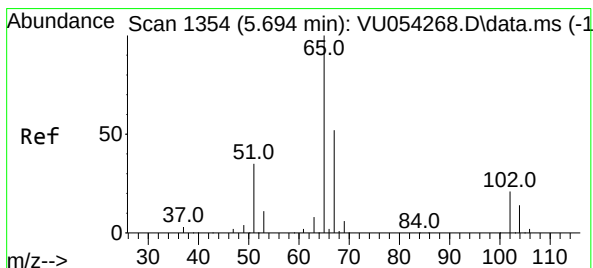
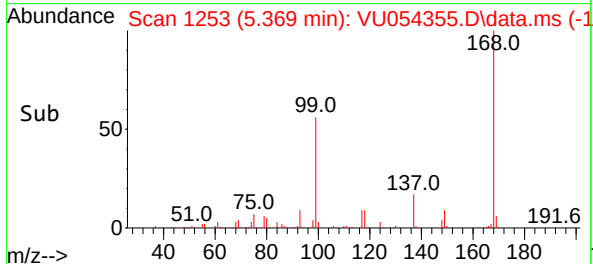
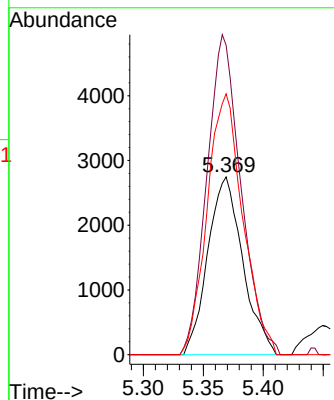
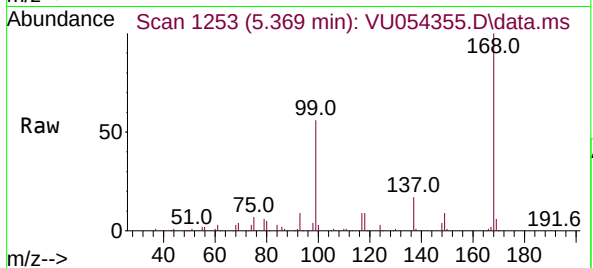




#31  
Cyclohexane  
Concen: 1.147 ug/l  
RT: 5.369 min Scan# 1253  
Delta R.T. -0.013 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

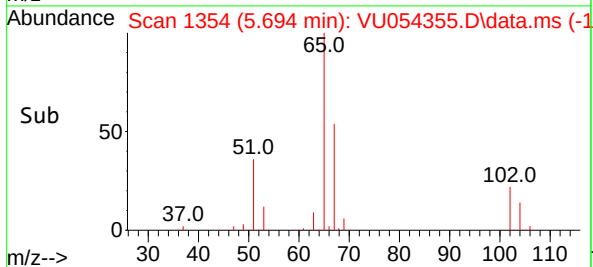
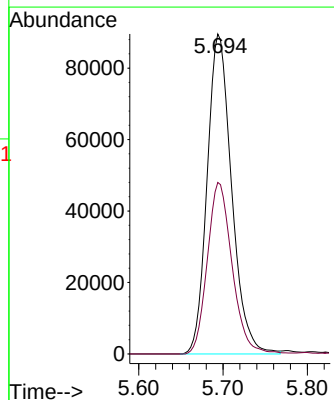
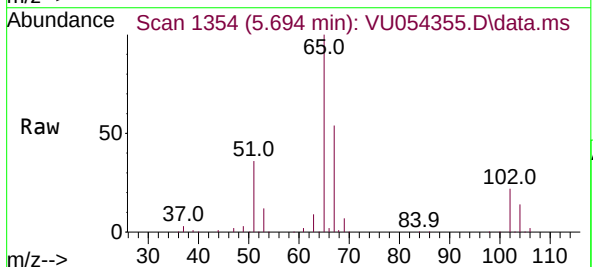
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

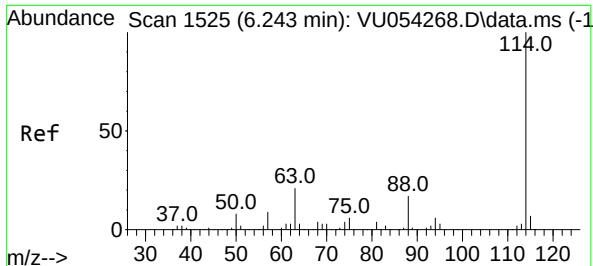
Tgt Ion: 56 Resp: 5558  
Ion Ratio Lower Upper  
56 100  
69 174.0 27.8 41.8#  
84 146.7 74.2 111.4#



#33  
1,2-Dichloroethane-d4  
Concen: 52.715 ug/l  
RT: 5.694 min Scan# 1354  
Delta R.T. -0.000 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion: 65 Resp: 180841  
Ion Ratio Lower Upper  
65 100  
67 54.3 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.244 min Scan# 1

Delta R.T. 0.001 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

VU0531MBL01

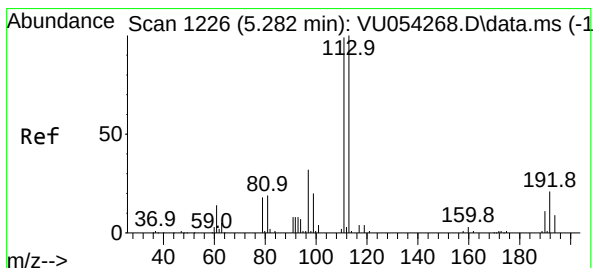
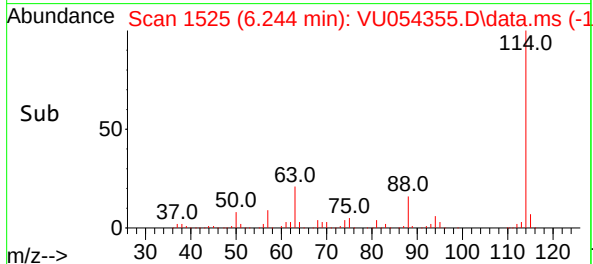
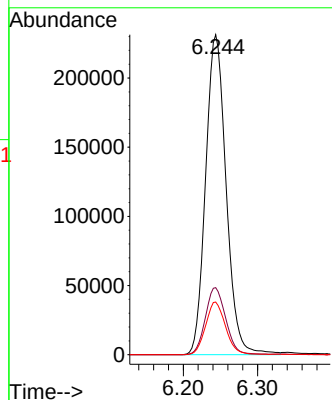
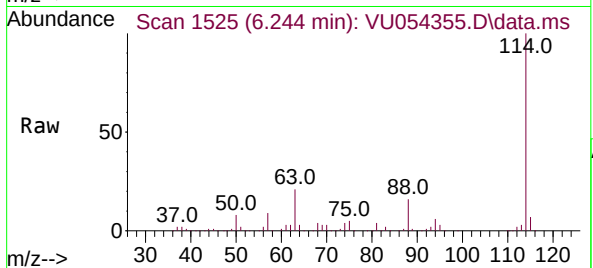
Tgt Ion:114 Resp: 443898

Ion Ratio Lower Upper

114 100

63 20.9 0.0 37.8

88 16.5 0.0 29.2



#35

Dibromofluoromethane

Concen: 52.542 ug/l

RT: 5.282 min Scan# 1226

Delta R.T. 0.000 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

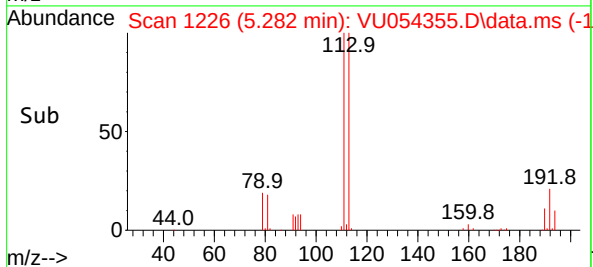
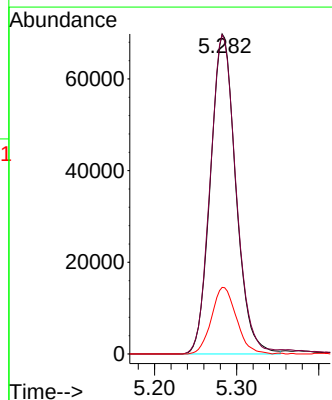
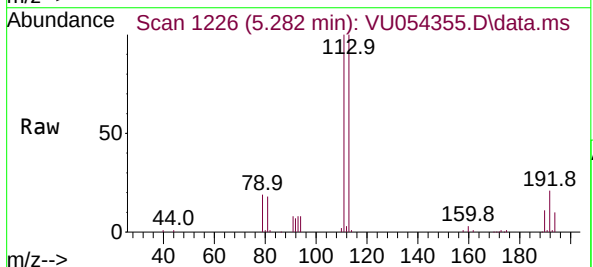
Tgt Ion:113 Resp: 150198

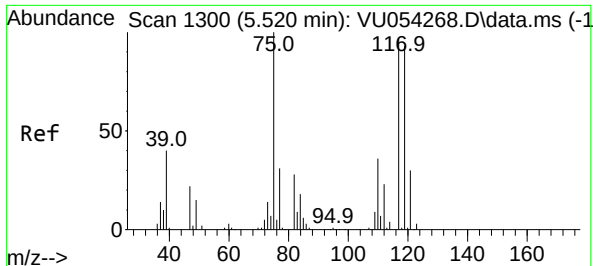
Ion Ratio Lower Upper

113 100

111 101.0 82.1 123.1

192 20.5 18.0 27.0





#36

1,1-Dichloropropene

Concen: 0.434 ug/l

RT: 5.533 min Scan# 11

Delta R.T. 0.013 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

VU0531MBL01

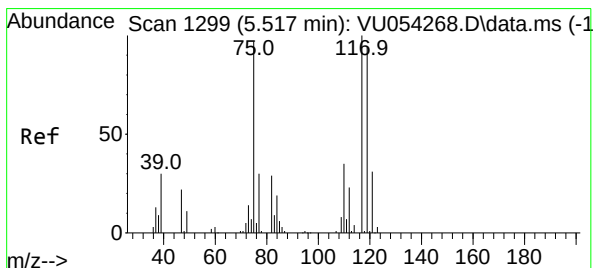
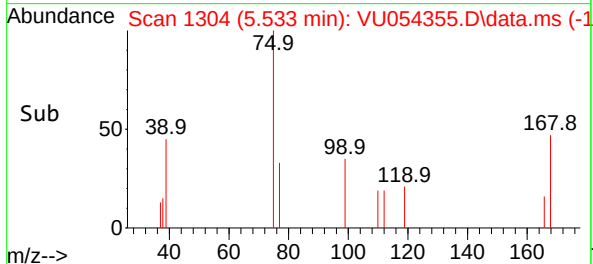
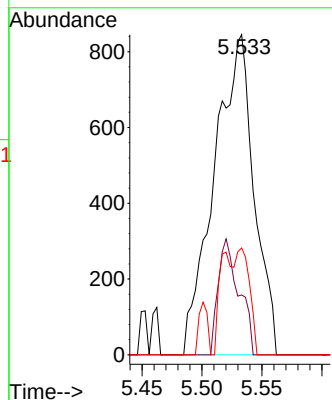
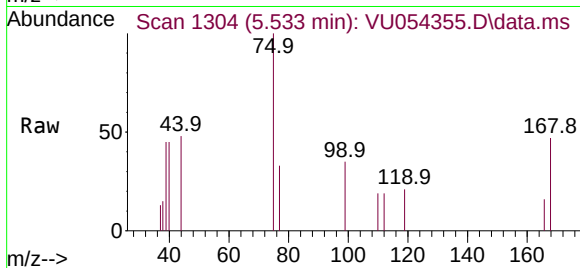
Tgt Ion: 75 Resp: 1950

Ion Ratio Lower Upper

75 100

110 18.9 18.4 55.2

77 11.7 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.453 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.151 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

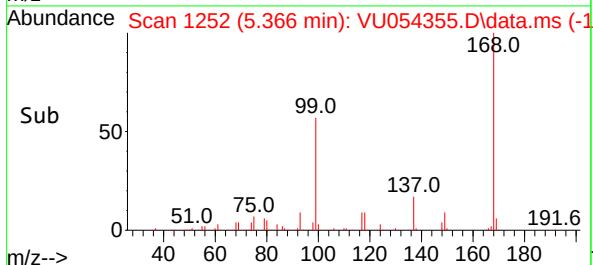
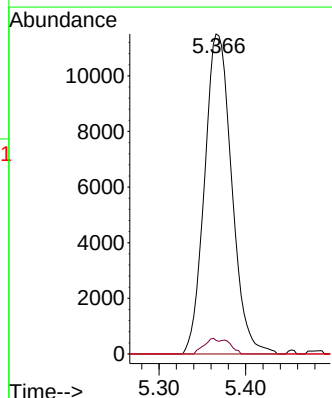
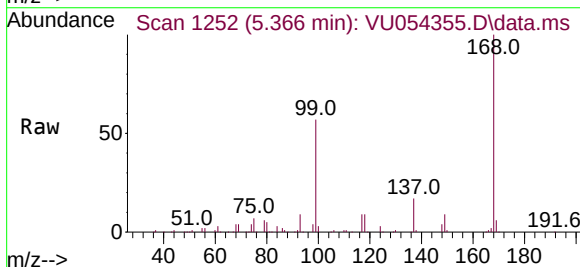
Tgt Ion: 117 Resp: 25060

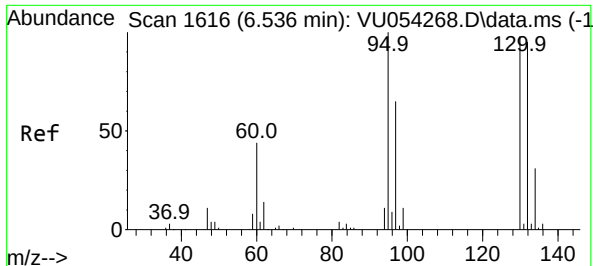
Ion Ratio Lower Upper

117 100

119 4.3 76.8 115.2#

121 0.0 24.7 37.1#

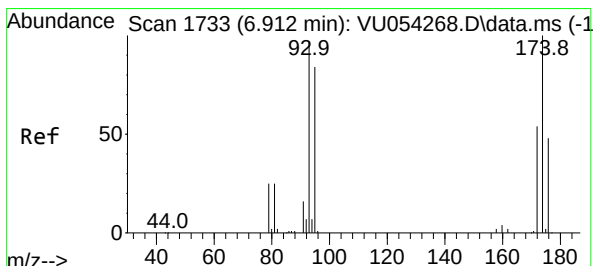
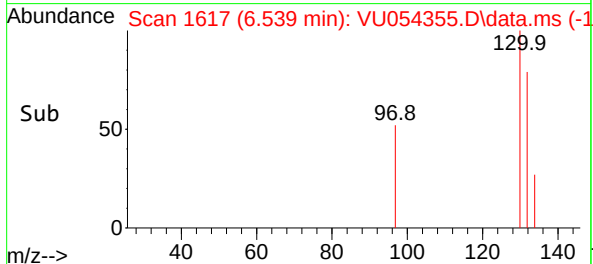
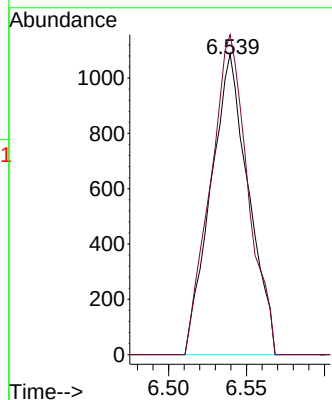
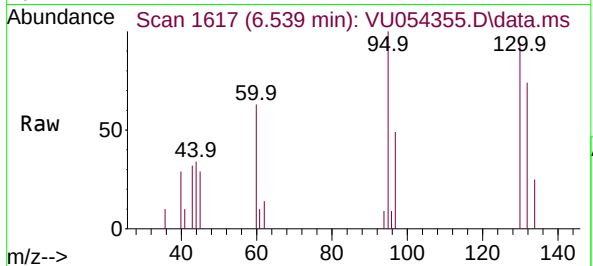




#44  
Trichloroethene  
Concen: 0.510 ug/l  
RT: 6.539 min Scan# 1  
Delta R.T. 0.003 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

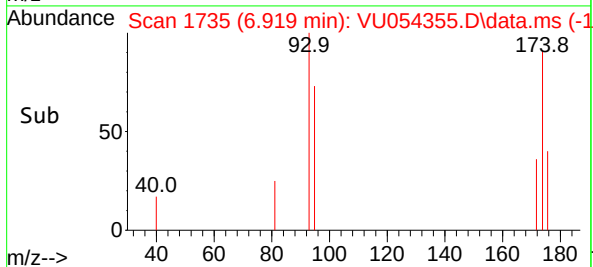
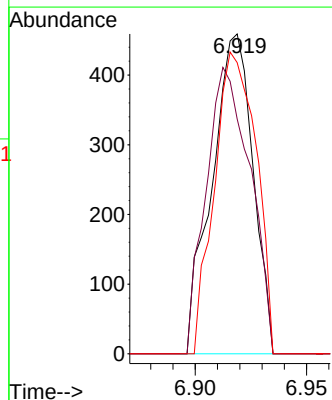
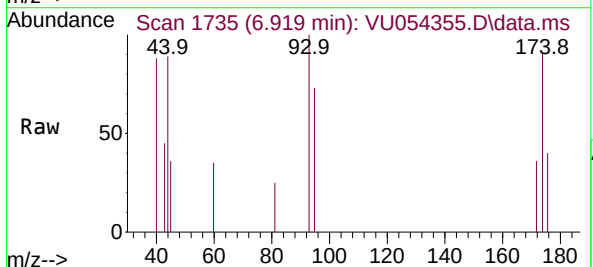
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

Tgt Ion:130 Resp: 1827  
Ion Ratio Lower Upper  
130 100  
95 106.4 0.0 184.6

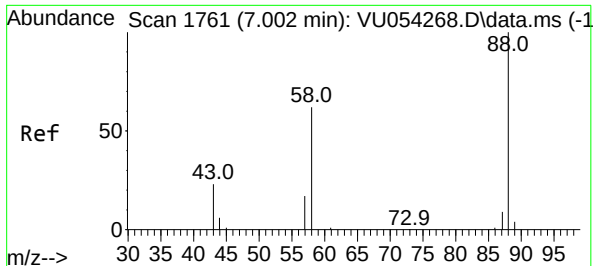


#46  
Dibromomethane  
Concen: 0.240 ug/l  
RT: 6.919 min Scan# 1735  
Delta R.T. 0.007 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion: 93 Resp: 590  
Ion Ratio Lower Upper  
93 100  
95 95.9 66.3 99.5  
174 95.6 88.2 132.4







#49

1,4-Dioxane

Concen: 1.449 ug/l

RT: 6.993 min Scan# 1

Delta R.T. -0.009 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

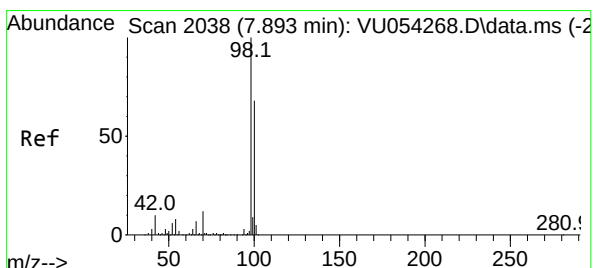
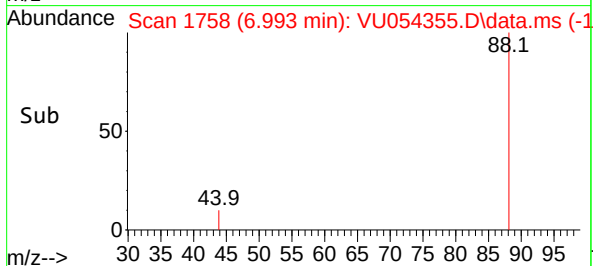
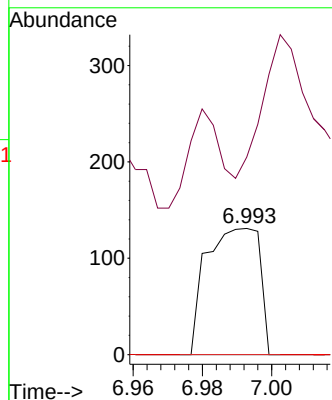
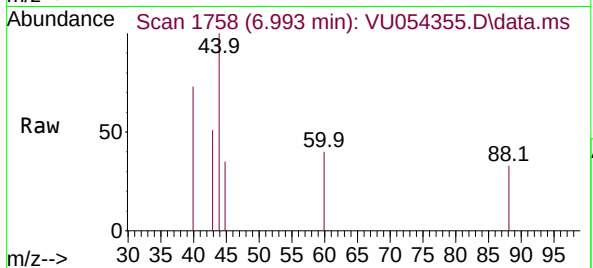
Instrument :

MSVOA\_U

ClientSampleId :

VU0531MBL01

|             |                |
|-------------|----------------|
| Tgt Ion: 88 | Resp: 140      |
| Ion Ratio   | Lower Upper    |
| 88          | 100            |
| 43          | 100.7 0.0 0.0# |
| 58          | 0.0 15.4 23.0# |



#50

Toluene-d8

Concen: 50.676 ug/l

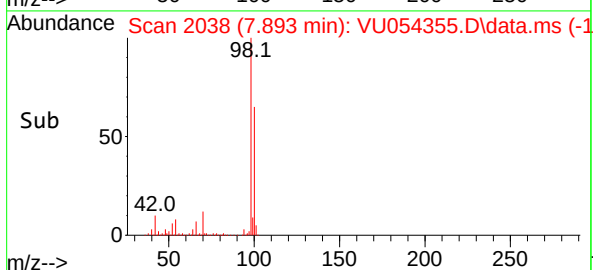
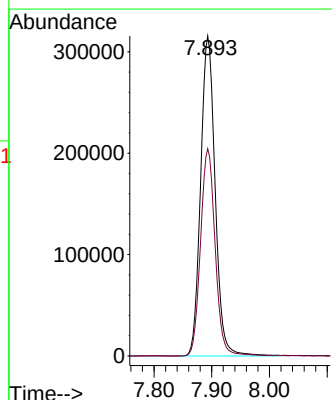
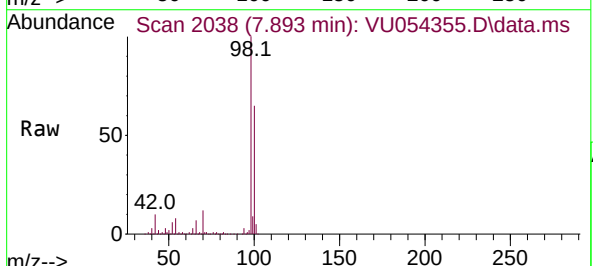
RT: 7.893 min Scan# 2038

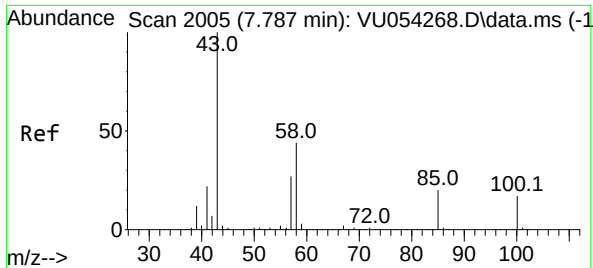
Delta R.T. 0.000 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

|             |                |
|-------------|----------------|
| Tgt Ion: 98 | Resp: 551010   |
| Ion Ratio   | Lower Upper    |
| 98          | 100            |
| 100         | 65.2 51.7 77.5 |

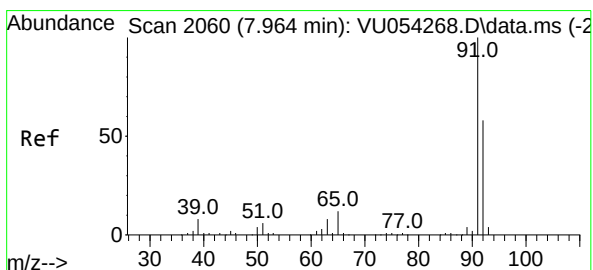
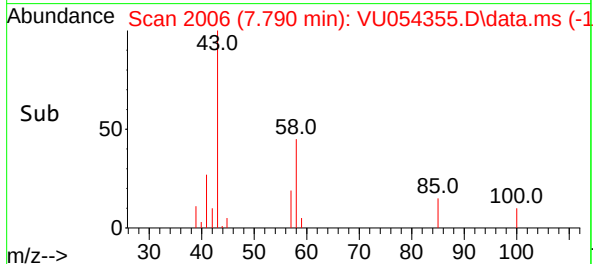
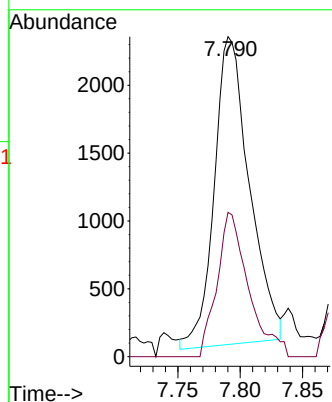
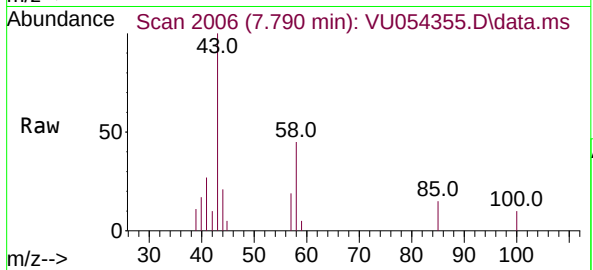




#51  
4-Methyl-2-Pentanone  
Concen: 0.883 ug/l  
RT: 7.790 min Scan# 2005  
Delta R.T. 0.003 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

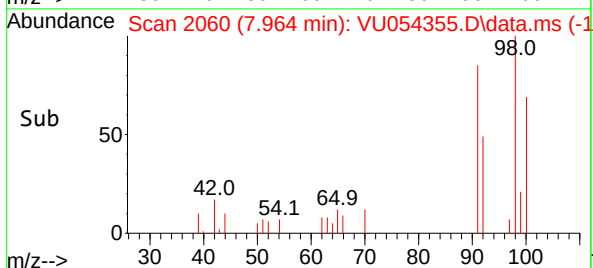
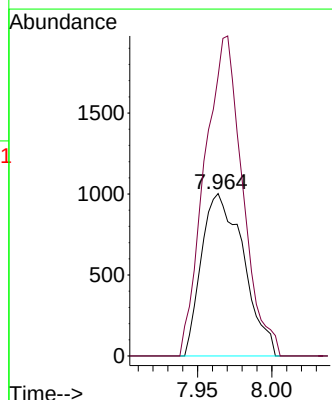
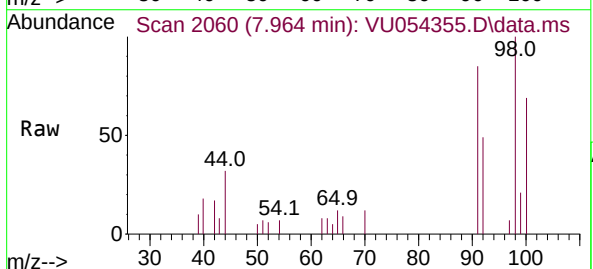
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

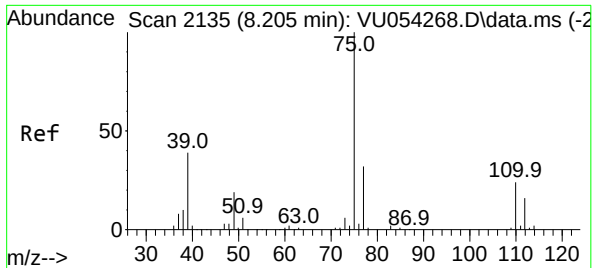
Tgt Ion: 43 Resp: 4447  
Ion Ratio Lower Upper  
43 100  
58 41.9 34.7 52.1



#52  
Toluene  
Concen: 0.242 ug/l  
RT: 7.964 min Scan# 2060  
Delta R.T. -0.000 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion: 92 Resp: 1974  
Ion Ratio Lower Upper  
92 100  
91 177.9 138.2 207.4

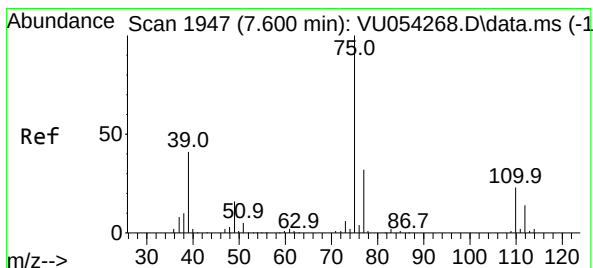
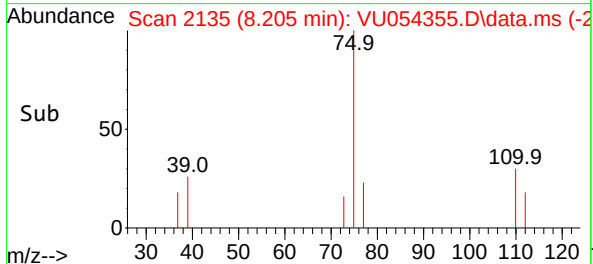
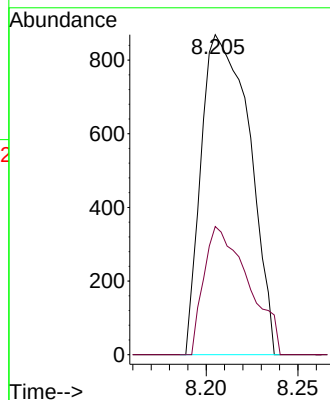
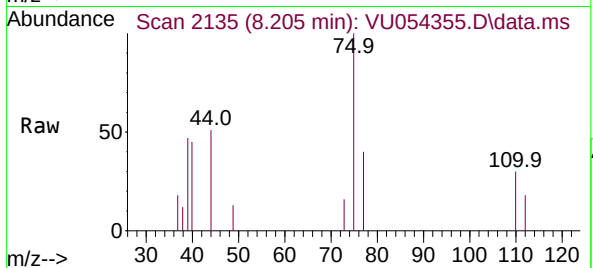




#53  
 t-1,3-Dichloropropene  
 Concen: 0.301 ug/l  
 RT: 8.205 min Scan# 2135  
 Delta R.T. -0.000 min  
 Lab File: VU054355.D  
 Acq: 31 May 2023 22:32

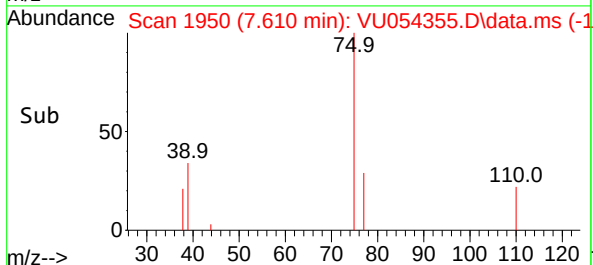
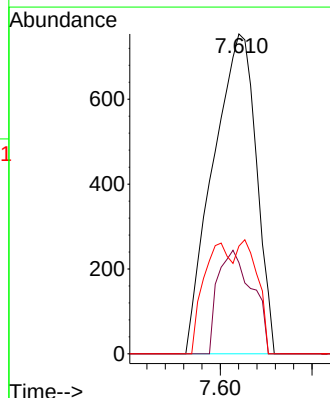
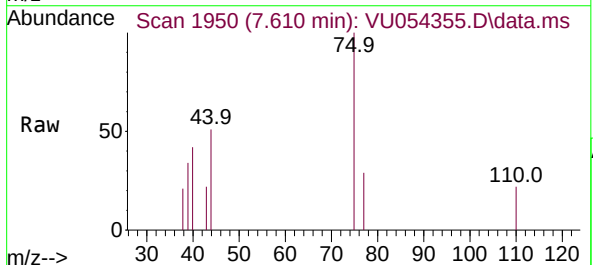
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0531MBL01

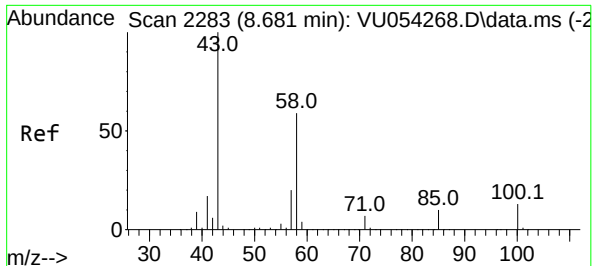
Tgt Ion: 75 Resp: 1583  
 Ion Ratio Lower Upper  
 75 100  
 77 40.0 25.4 38.0#



#54  
 cis-1,3-Dichloropropene  
 Concen: 0.225 ug/l  
 RT: 7.610 min Scan# 1950  
 Delta R.T. 0.010 min  
 Lab File: VU054355.D  
 Acq: 31 May 2023 22:32

Tgt Ion: 75 Resp: 1233  
 Ion Ratio Lower Upper  
 75 100  
 77 28.5 25.7 38.5  
 39 33.7 33.0 49.6





#59

2-Hexanone

Concen: 1.690 ug/l

RT: 8.687 min Scan# 21

Delta R.T. 0.006 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

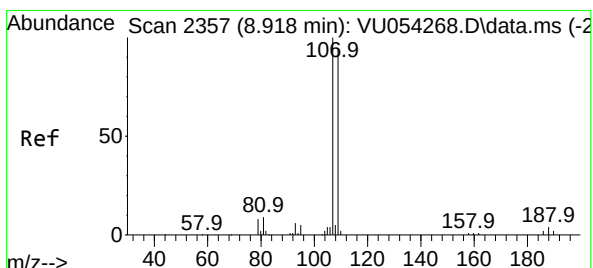
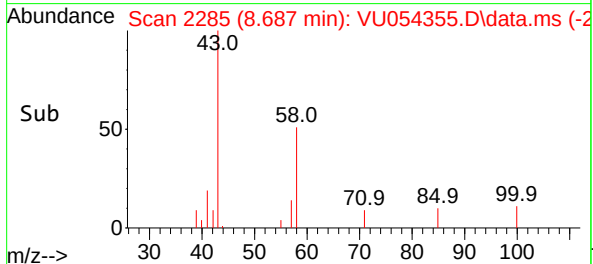
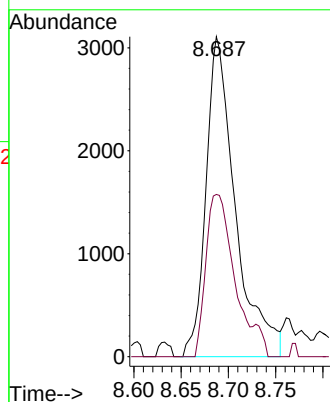
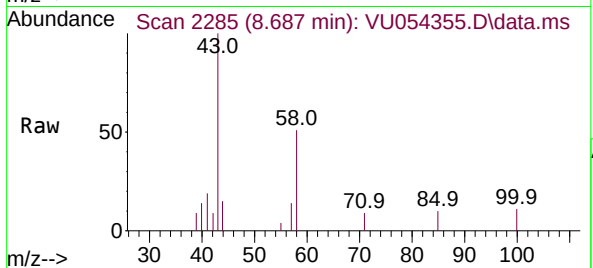
VU0531MBL01

Tgt Ion: 43 Resp: 6724

Ion Ratio Lower Upper

43 100

58 50.4 30.3 90.8



#61

1,2-Dibromoethane

Concen: 0.206 ug/l

RT: 8.922 min Scan# 2358

Delta R.T. 0.004 min

Lab File: VU054355.D

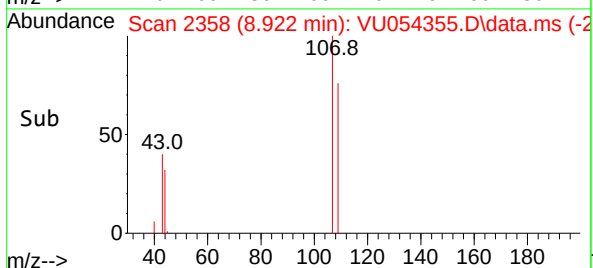
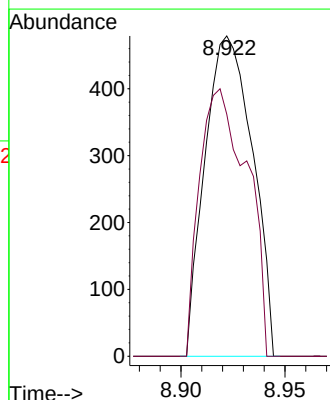
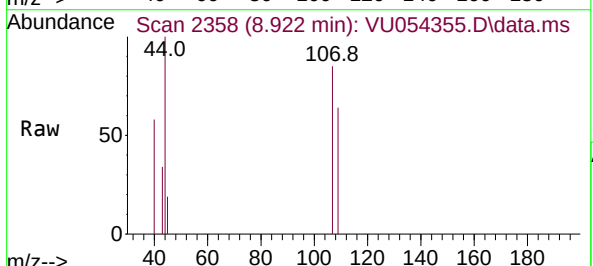
Acq: 31 May 2023 22:32

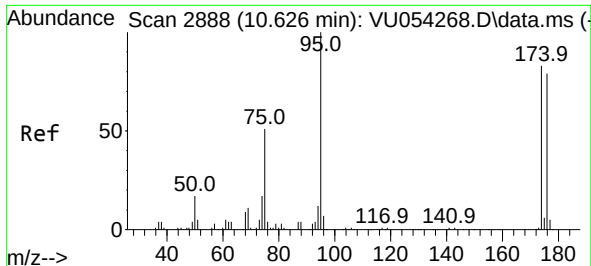
Tgt Ion: 107 Resp: 760

Ion Ratio Lower Upper

107 100

109 83.6 75.1 112.7

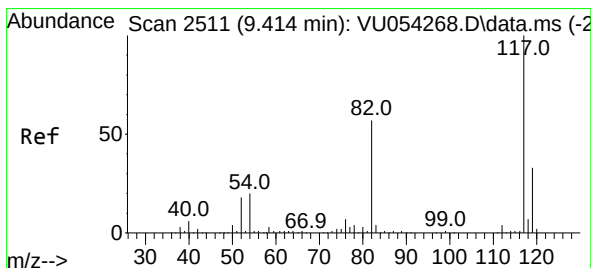
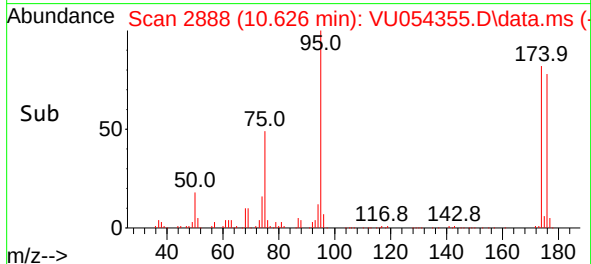
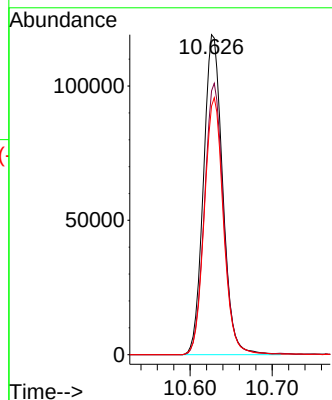
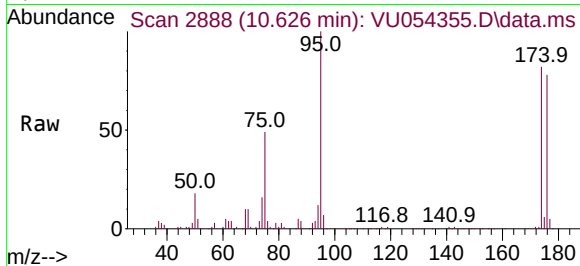




#62  
4-Bromofluorobenzene  
Concen: 45.934 ug/l  
RT: 10.626 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

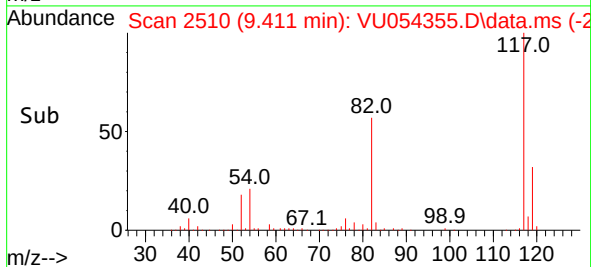
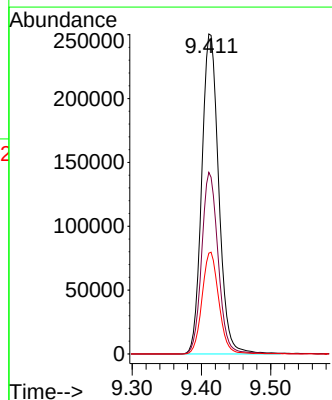
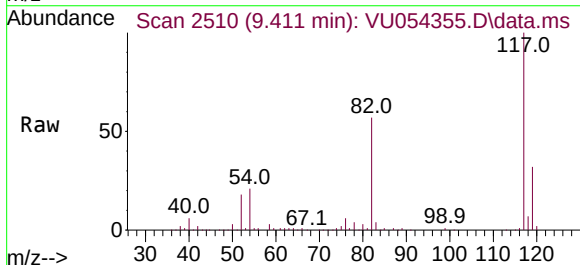
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

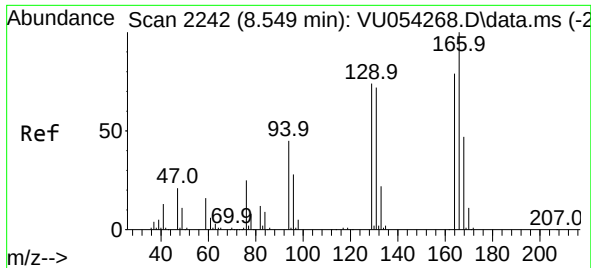
Tgt Ion: 95 Resp: 193659  
Ion Ratio Lower Upper  
95 100  
174 84.4 0.0 182.0  
176 80.0 0.0 177.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.411 min Scan# 2510  
Delta R.T. -0.003 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion: 117 Resp: 425475  
Ion Ratio Lower Upper  
117 100  
82 56.8 41.7 62.5  
119 31.5 25.7 38.5



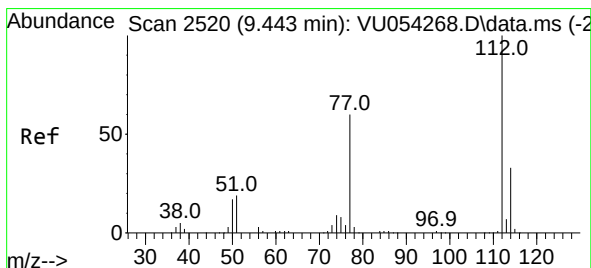
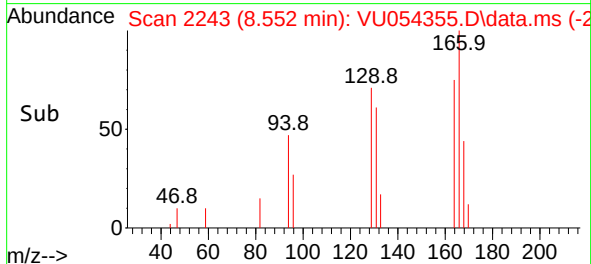
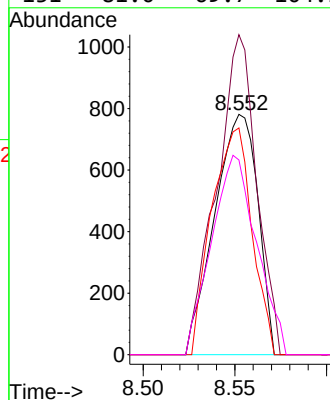
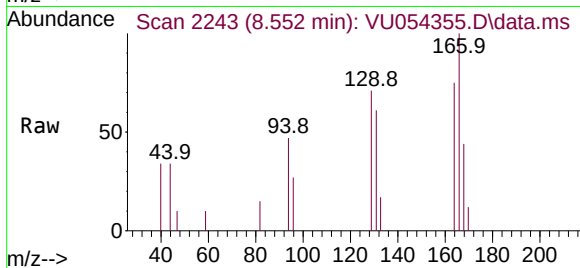


#64  
Tetrachloroethene  
Concen: 0.400 ug/l  
RT: 8.552 min Scan# 2119  
Delta R.T. 0.003 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

Tgt Ion:164 Resp: 1282

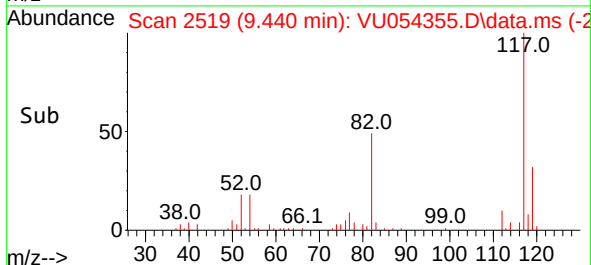
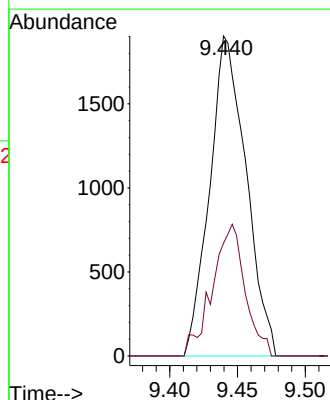
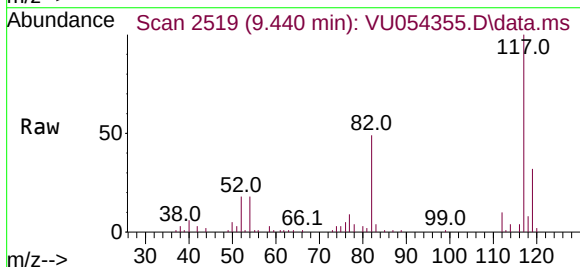
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 133.2 | 100.0 | 150.0 |
| 129 | 94.4  | 72.0  | 108.0 |
| 131 | 81.0  | 69.7  | 104.5 |

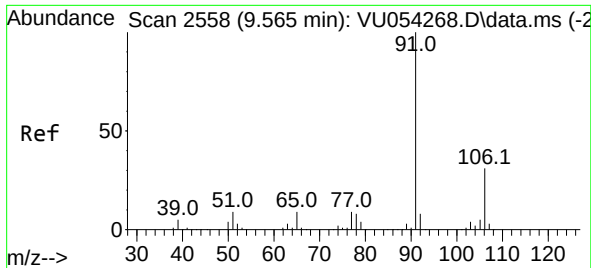


#65  
Chlorobenzene  
Concen: 0.399 ug/l  
RT: 9.440 min Scan# 2519  
Delta R.T. -0.003 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion:112 Resp: 3551

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 114 | 35.2  | 24.9  | 37.3  |

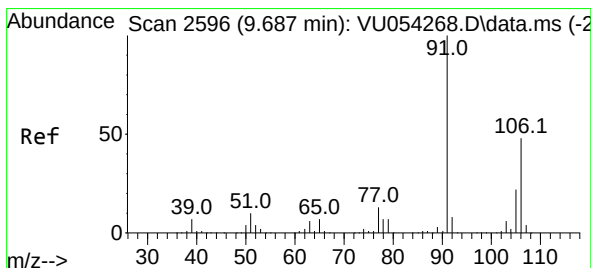
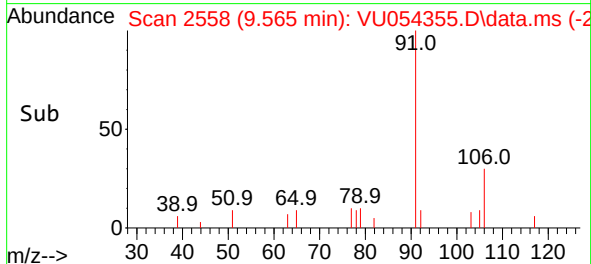
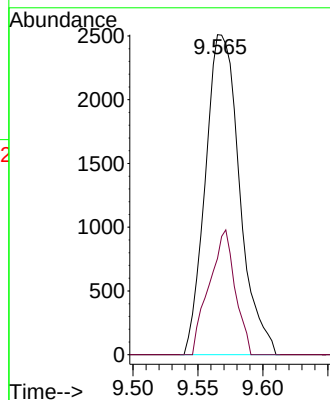
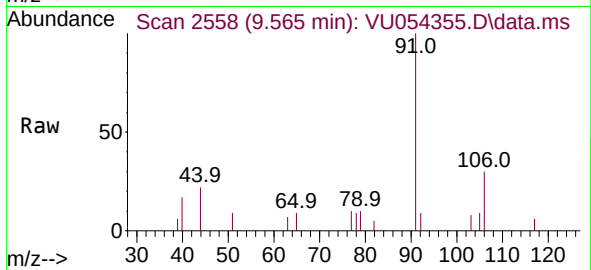




#67  
Ethyl Benzene  
Concen: 0.302 ug/l  
RT: 9.565 min Scan# 2558  
Delta R.T. 0.000 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

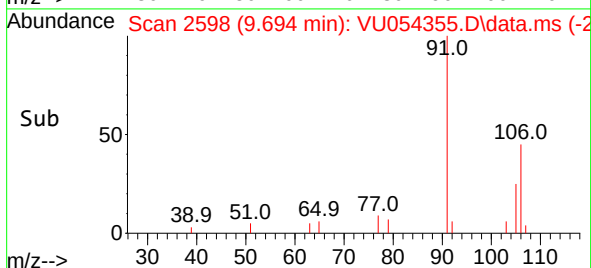
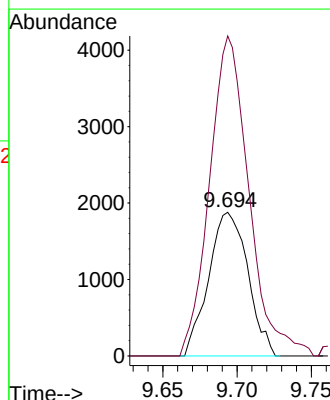
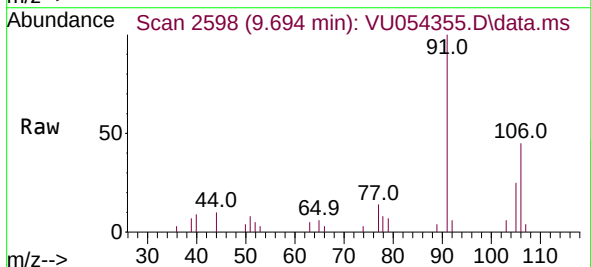
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

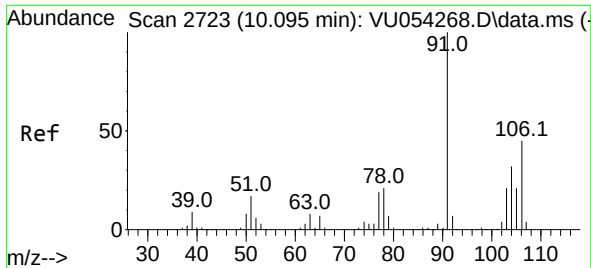
Tgt Ion: 91 Resp: 4596  
Ion Ratio Lower Upper  
91 100  
106 30.0 25.6 38.4



#68  
m/p-Xylenes  
Concen: 0.599 ug/l  
RT: 9.694 min Scan# 2598  
Delta R.T. 0.007 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion: 106 Resp: 3452  
Ion Ratio Lower Upper  
106 100  
91 223.4 157.2 235.8

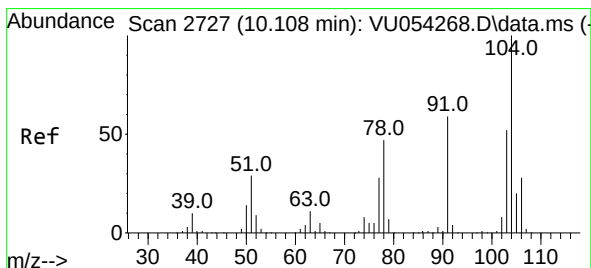
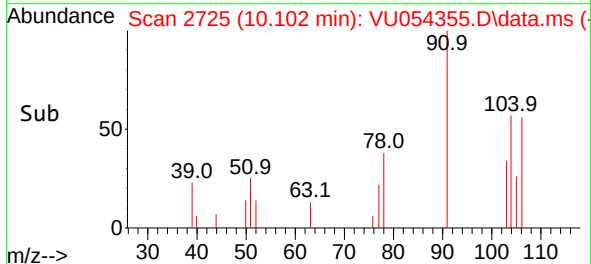
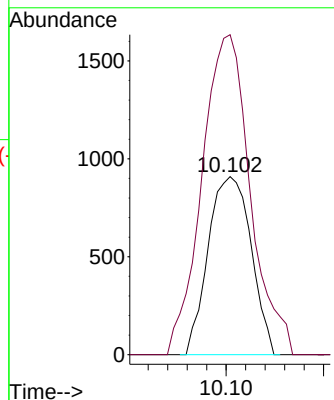
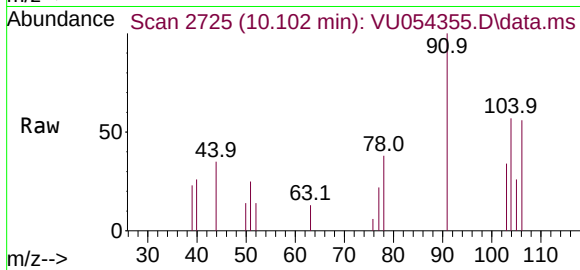




#69  
o-Xylene  
Concen: 0.249 ug/l  
RT: 10.102 min Scan# 21  
Delta R.T. 0.007 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

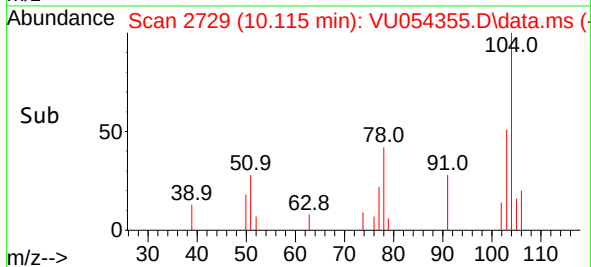
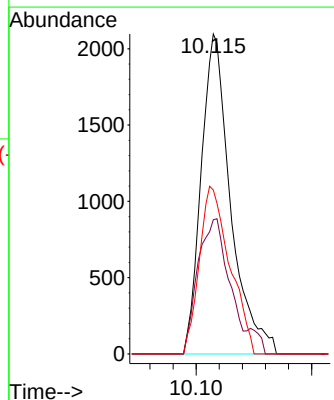
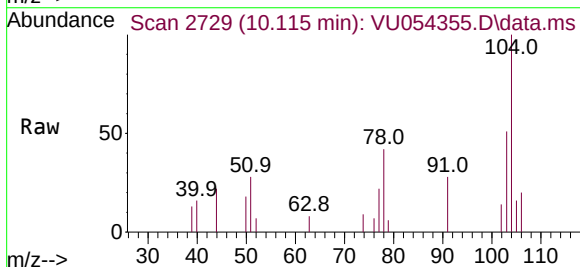
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

Tgt Ion:106 Resp: 1389  
Ion Ratio Lower Upper  
106 100  
91 202.7 103.5 310.5

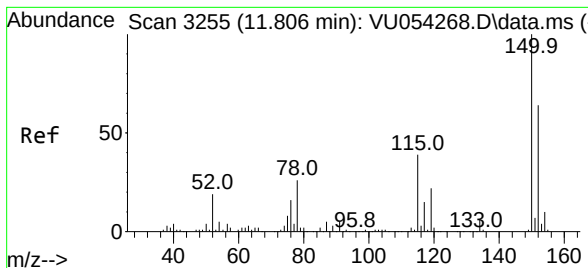


#70  
Styrene  
Concen: 0.401 ug/l  
RT: 10.115 min Scan# 2729  
Delta R.T. 0.007 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion:104 Resp: 3707  
Ion Ratio Lower Upper  
104 100  
78 45.0 38.0 57.0  
103 54.2 43.9 65.9







#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.806 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

VU0531MBL01

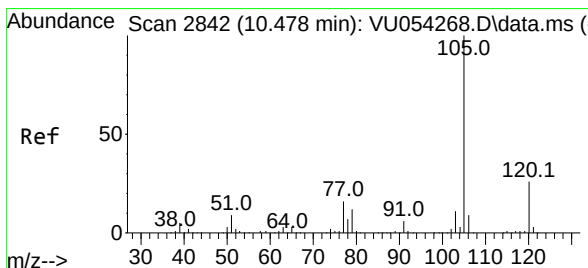
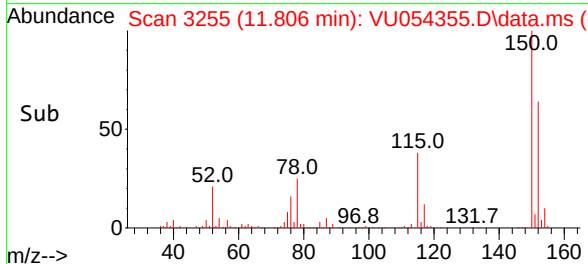
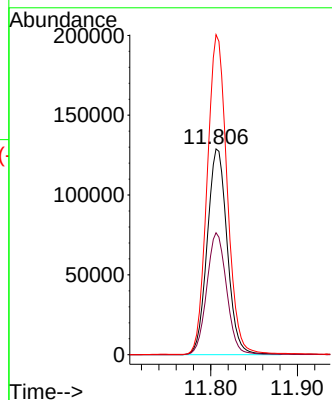
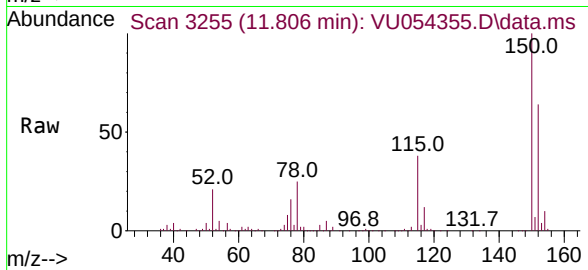
Tgt Ion:152 Resp: 206741

Ion Ratio Lower Upper

152 100

115 58.9 37.0 110.9

150 155.8 0.0 342.2



#73

Isopropylbenzene

Concen: 0.333 ug/l

RT: 10.481 min Scan# 2843

Delta R.T. 0.003 min

Lab File: VU054355.D

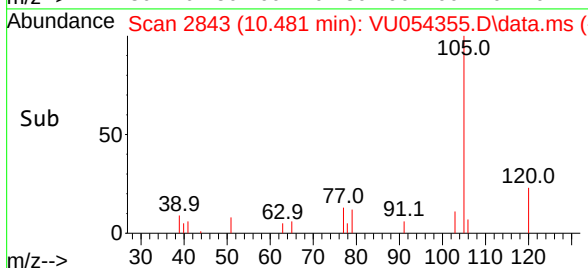
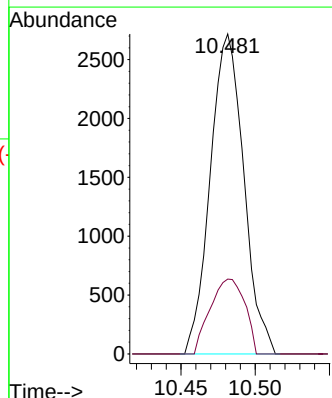
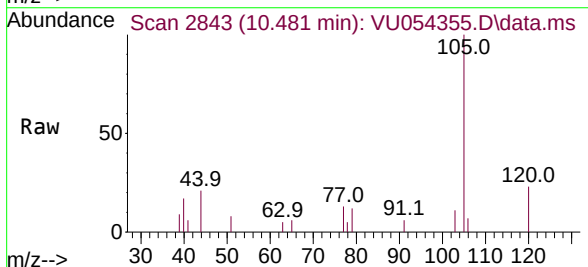
Acq: 31 May 2023 22:32

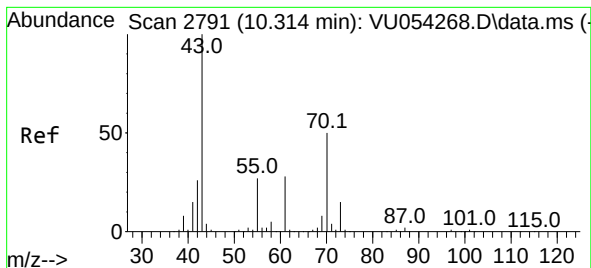
Tgt Ion:105 Resp: 4261

Ion Ratio Lower Upper

105 100

120 24.1 13.8 41.4





#74

N-amy1 acetate

Concen: 0.731 ug/l

RT: 10.317 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

VU0531MBL01

Tgt Ion: 43 Resp: 3973

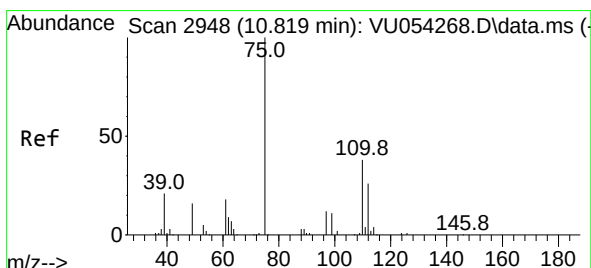
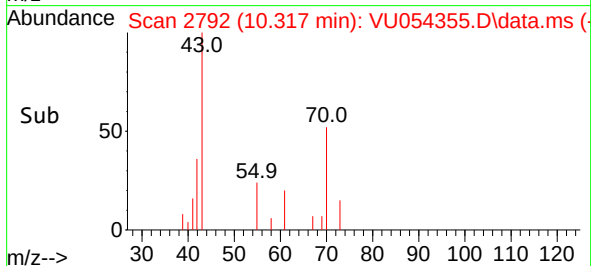
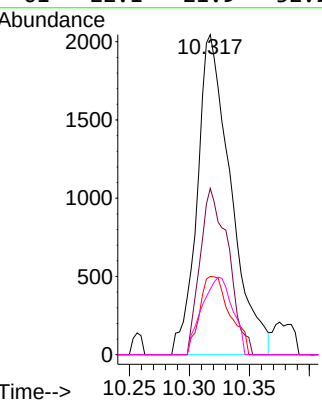
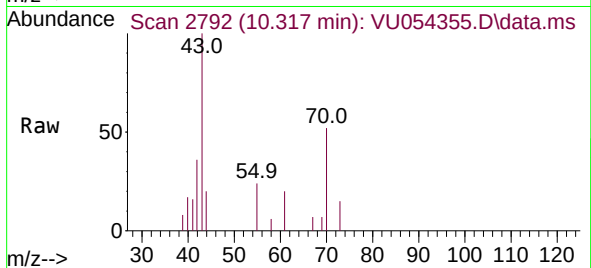
Ion Ratio Lower Upper

43 100

70 43.9 38.7 58.1

55 22.0 21.8 32.8

61 22.1 21.9 32.9



#76

1,2,3-Trichloropropane

Concen: 15.817 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. -0.193 min

Lab File: VU054355.D

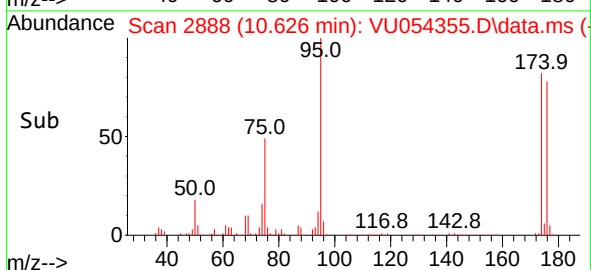
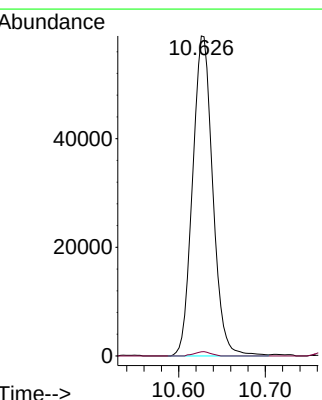
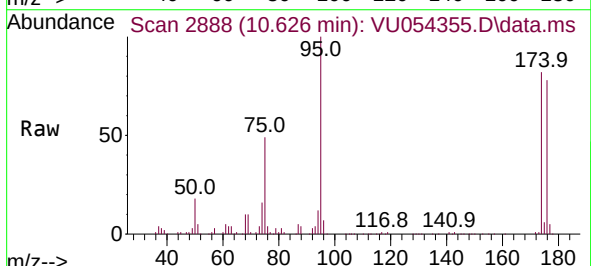
Acq: 31 May 2023 22:32

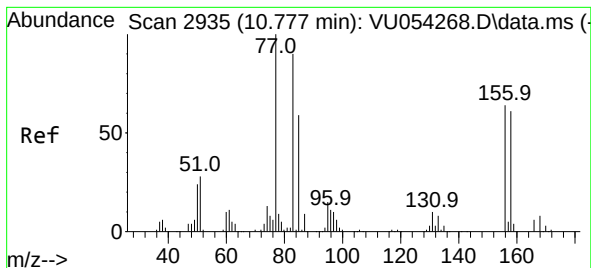
Tgt Ion: 75 Resp: 95441

Ion Ratio Lower Upper

75 100

77 1.1 15.8 47.3#





#77

Bromobenzene

Concen: 0.721 ug/l

RT: 10.784 min Scan# 2936

Delta R.T. 0.007 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

VU0531MBL01

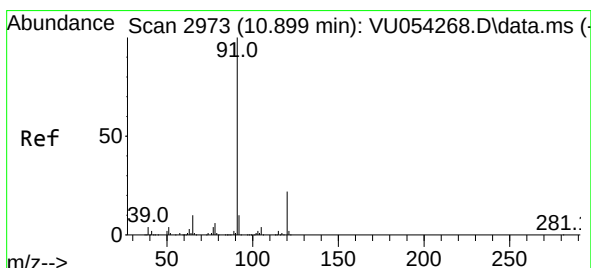
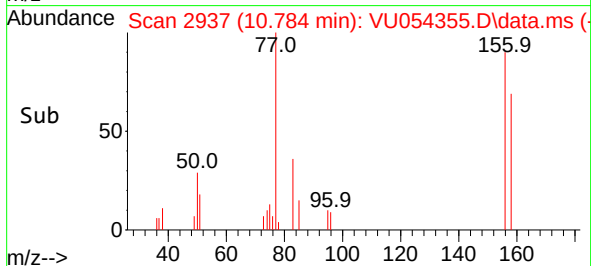
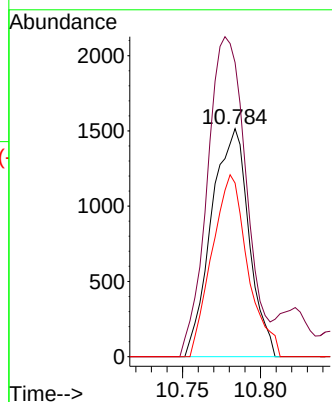
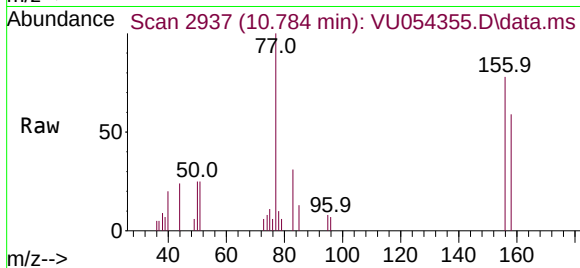
Tgt Ion:156 Resp: 2536

Ion Ratio Lower Upper

156 100

77 145.1 71.9 215.6

158 76.1 48.9 146.8



#78

n-propylbenzene

Concen: 0.534 ug/l

RT: 10.903 min Scan# 2974

Delta R.T. 0.004 min

Lab File: VU054355.D

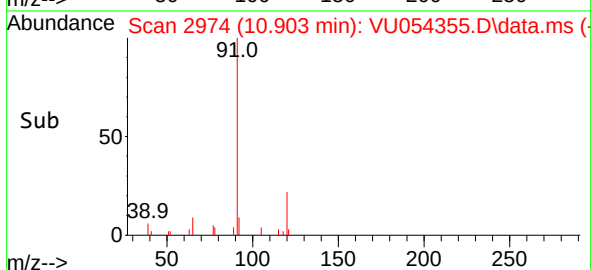
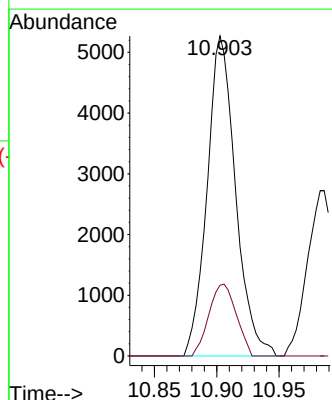
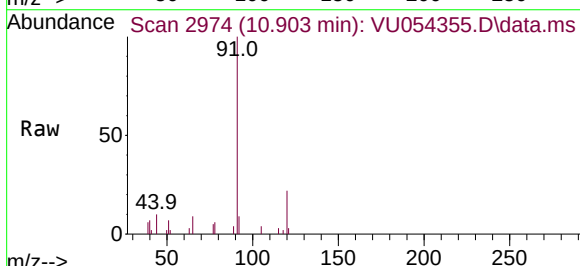
Acq: 31 May 2023 22:32

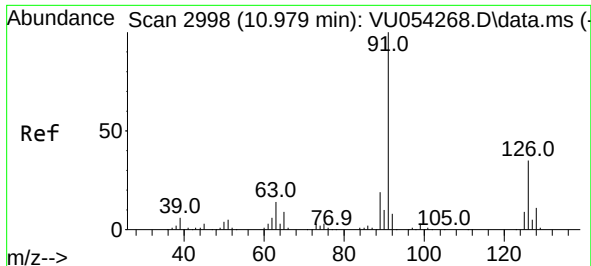
Tgt Ion: 91 Resp: 8375

Ion Ratio Lower Upper

91 100

120 21.5 11.9 35.5





#79

2-Chlorotoluene

Concen: 0.458 ug/l

RT: 10.983 min Scan# 2999

Delta R.T. 0.004 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

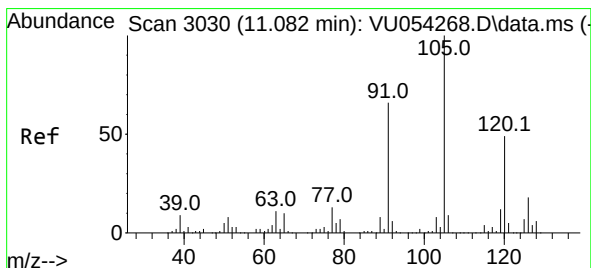
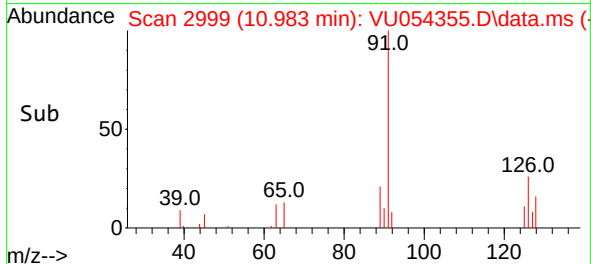
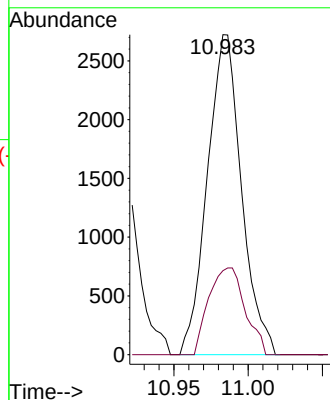
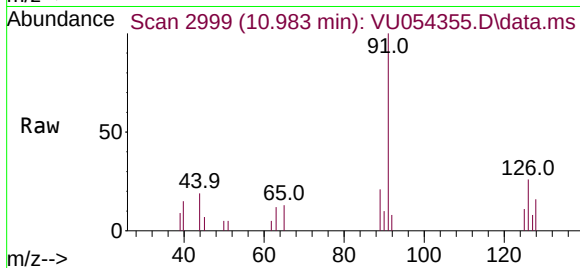
VU0531MBL01

Tgt Ion: 91 Resp: 4350

Ion Ratio Lower Upper

91 100

126 28.8 18.4 55.0



#80

1,3,5-Trimethylbenzene

Concen: 0.352 ug/l

RT: 11.086 min Scan# 3031

Delta R.T. 0.004 min

Lab File: VU054355.D

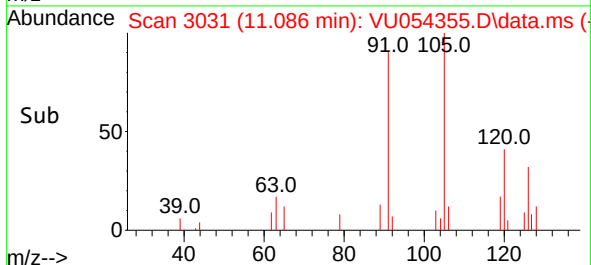
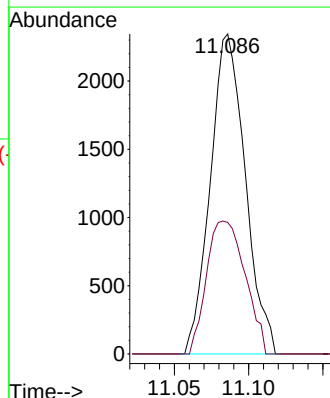
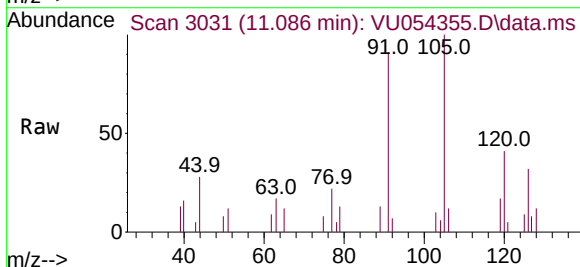
Acq: 31 May 2023 22:32

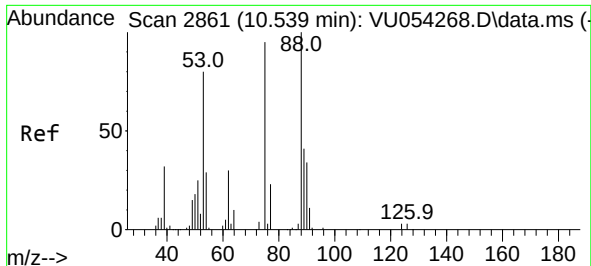
Tgt Ion: 105 Resp: 3838

Ion Ratio Lower Upper

105 100

120 45.7 25.3 75.9

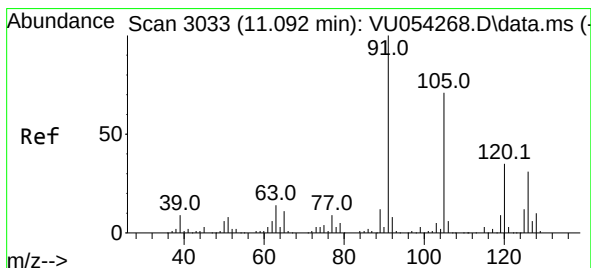
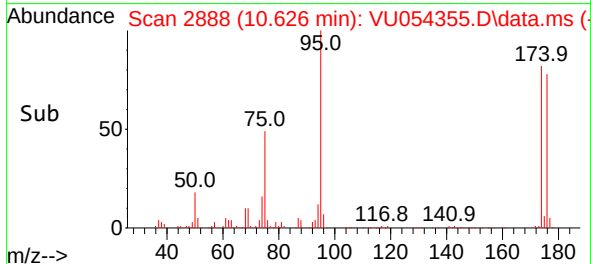
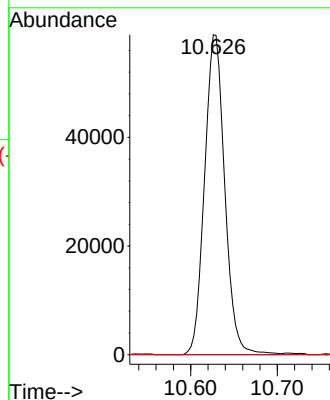
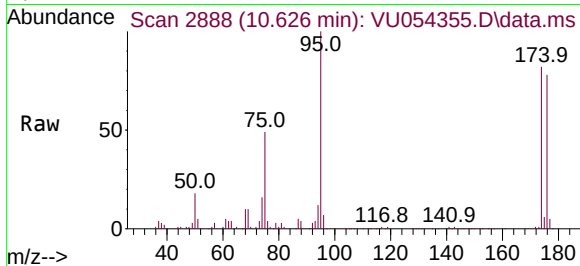




#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.232 ug/l  
RT: 10.626 min Scan# 21  
Delta R.T. 0.087 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

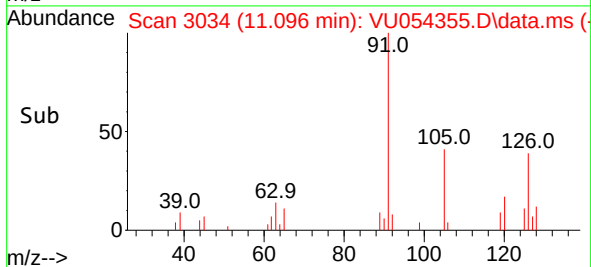
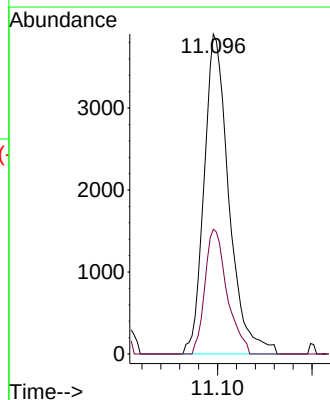
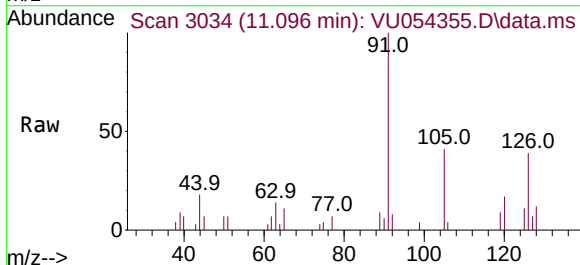
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

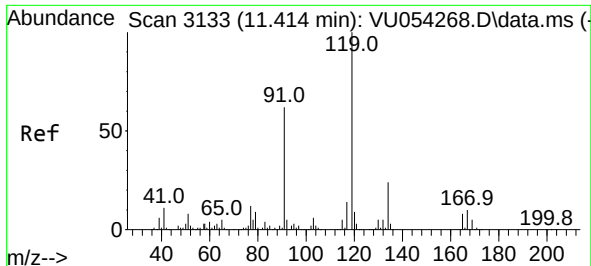
Tgt Ion: 75 Resp: 95441  
Ion Ratio Lower Upper  
75 100  
53 0.0 69.2 103.8#  
89 0.0 37.0 55.6#



#82  
4-Chlorotoluene  
Concen: 0.638 ug/l  
RT: 11.096 min Scan# 3034  
Delta R.T. 0.004 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion: 91 Resp: 7104  
Ion Ratio Lower Upper  
91 100  
126 34.7 16.1 48.2

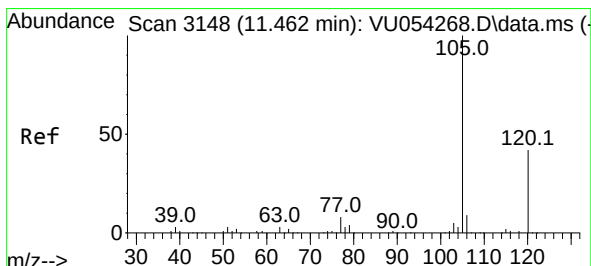
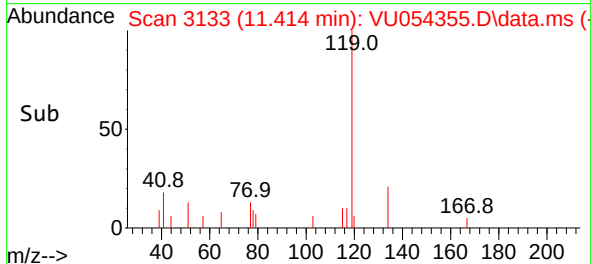
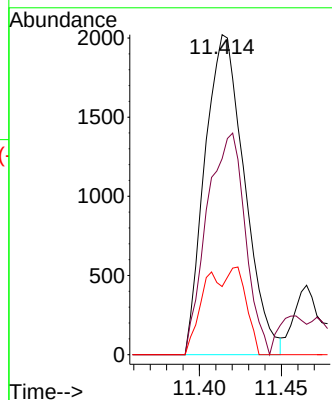
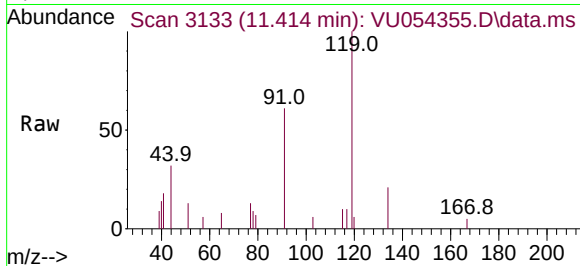




#83  
tert-Butylbenzene  
Concen: 0.311 ug/l  
RT: 11.414 min Scan# 3133  
Delta R.T. -0.000 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

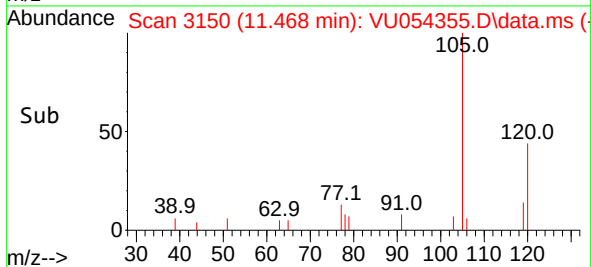
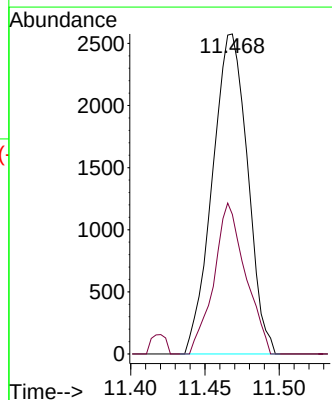
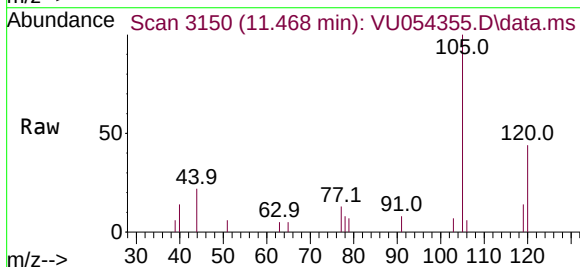
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

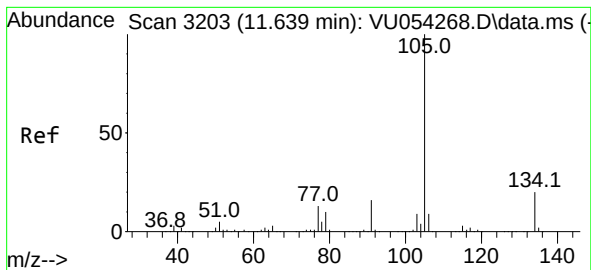
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 3389  |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 66.8  | 26.8  | 80.3  |
| 134      | 13.8  | 11.5  | 34.5  |



#84  
1,2,4-Trimethylbenzene  
Concen: 0.392 ug/l  
RT: 11.468 min Scan# 3150  
Delta R.T. 0.006 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 4245  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 42.4  | 23.4  | 70.3  |





#85

sec-Butylbenzene

Concen: 0.486 ug/l

RT: 11.639 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

Instrument :

MSVOA\_U

ClientSampleId :

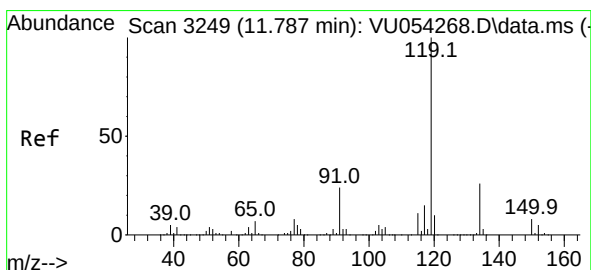
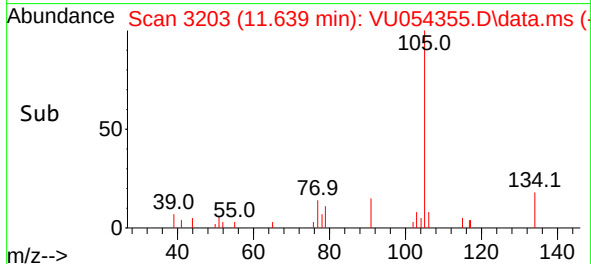
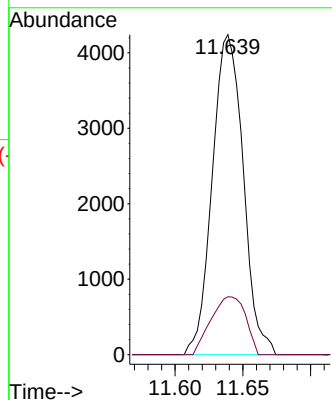
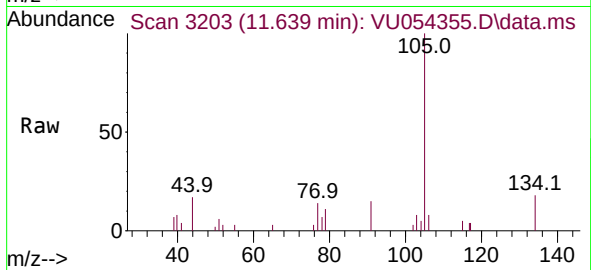
VU0531MBL01

Tgt Ion:105 Resp: 6720

Ion Ratio Lower Upper

105 100

134 20.3 10.4 31.1



#86

p-Isopropyltoluene

Concen: 0.515 ug/l

RT: 11.790 min Scan# 3250

Delta R.T. 0.003 min

Lab File: VU054355.D

Acq: 31 May 2023 22:32

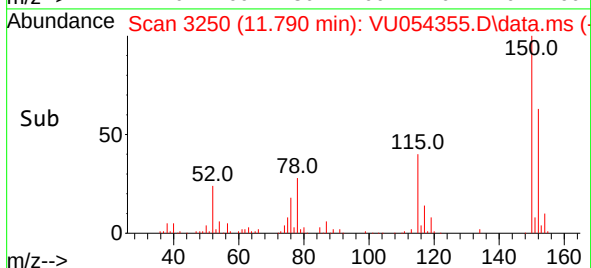
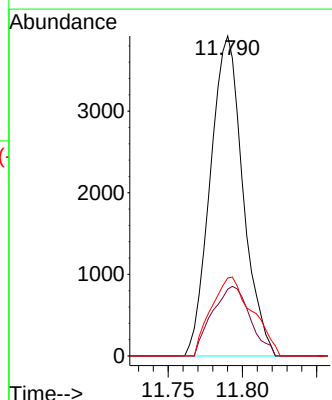
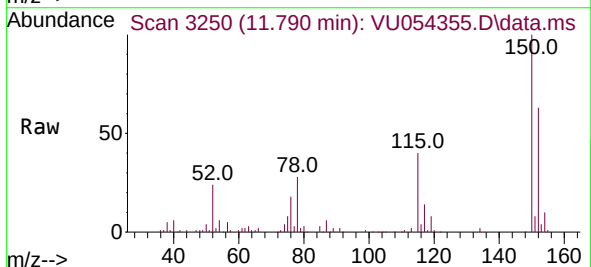
Tgt Ion:119 Resp: 5985

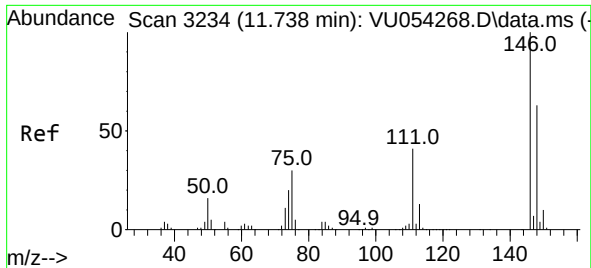
Ion Ratio Lower Upper

119 100

134 25.3 13.5 40.4

91 31.0 11.2 33.5

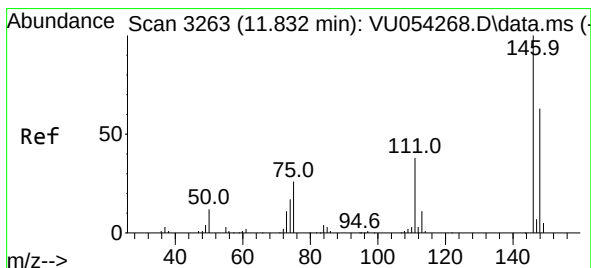
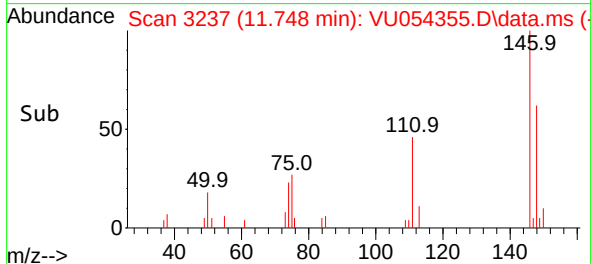
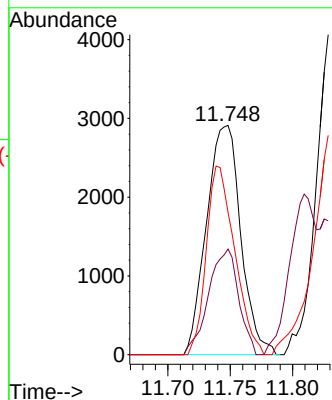
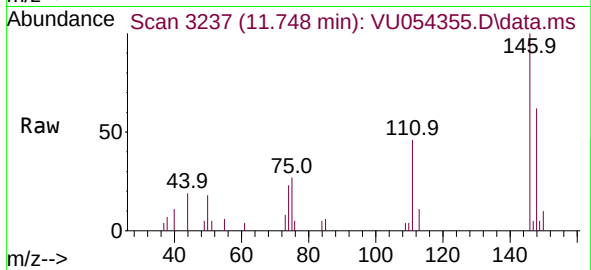




#87  
1,3-Dichlorobenzene  
Concen: 0.819 ug/l  
RT: 11.748 min Scan# 31  
Delta R.T. 0.010 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

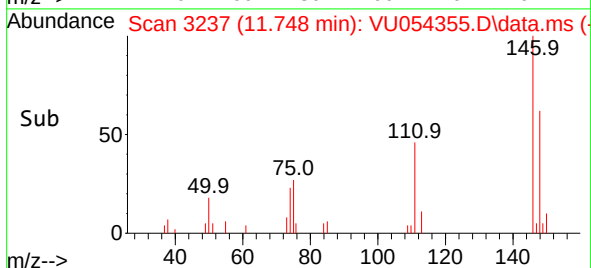
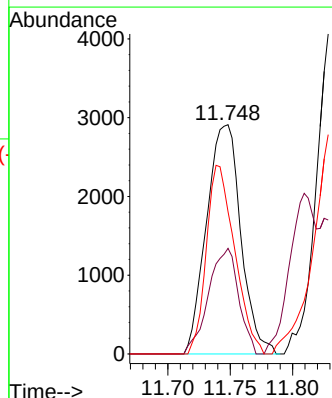
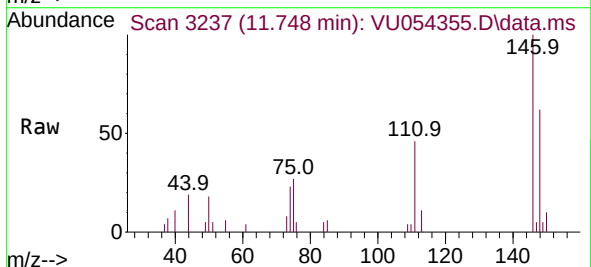
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

Tgt Ion:146 Resp: 5573  
Ion Ratio Lower Upper  
146 100  
111 40.4 18.9 56.5  
148 68.1 31.9 95.9

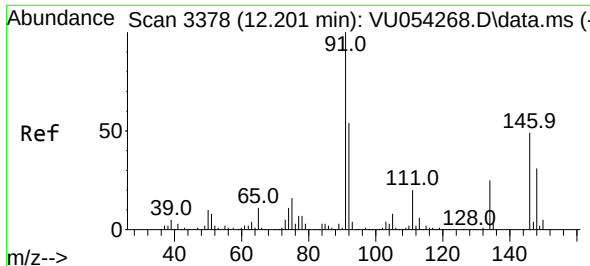


#88  
1,4-Dichlorobenzene  
Concen: 0.784 ug/l  
RT: 11.748 min Scan# 3237  
Delta R.T. -0.084 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion:146 Resp: 5573  
Ion Ratio Lower Upper  
146 100  
111 40.4 18.5 55.5  
148 68.1 31.9 95.7



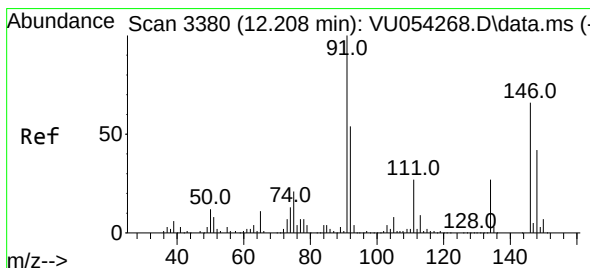
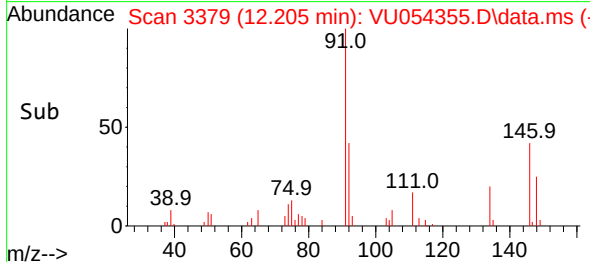
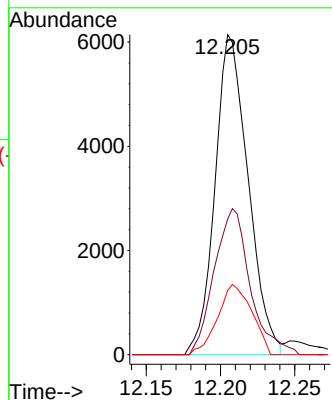
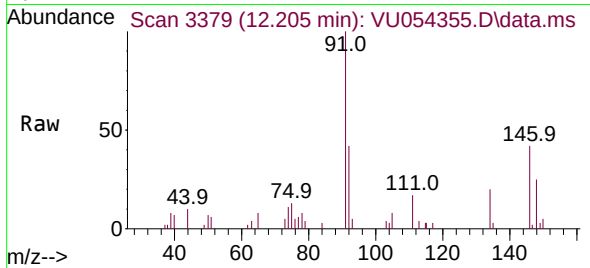




#89  
n-Butylbenzene  
Concen: 0.872 ug/l  
RT: 12.205 min Scan# 31  
Delta R.T. 0.004 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

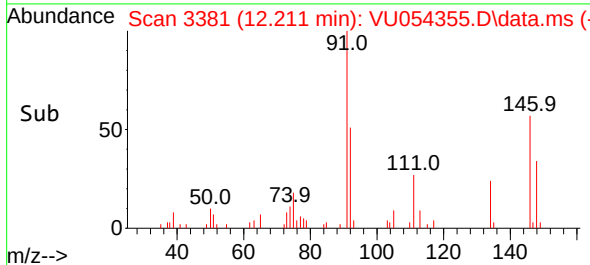
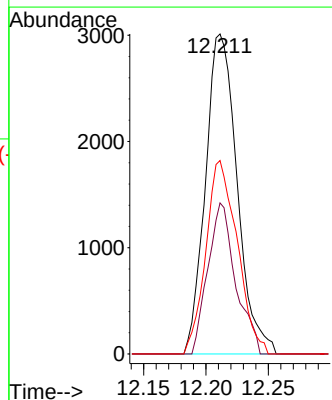
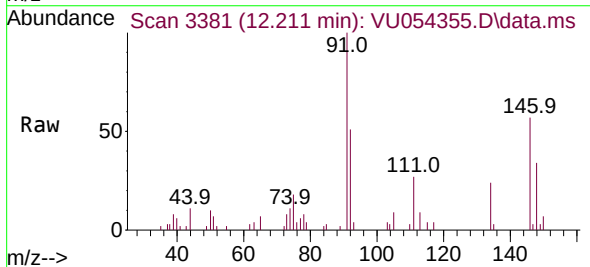
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

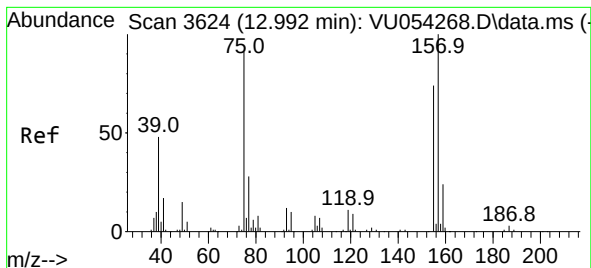
Tgt Ion: 91 Resp: 9533  
Ion Ratio Lower Upper  
91 100  
92 49.4 26.2 78.6  
134 22.7 13.5 40.4



#91  
1,2-Dichlorobenzene  
Concen: 0.795 ug/l  
RT: 12.211 min Scan# 3381  
Delta R.T. 0.003 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion:146 Resp: 5327  
Ion Ratio Lower Upper  
146 100  
111 41.3 19.9 59.6  
148 59.9 32.1 96.5

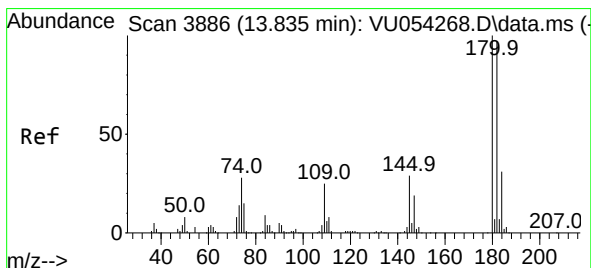
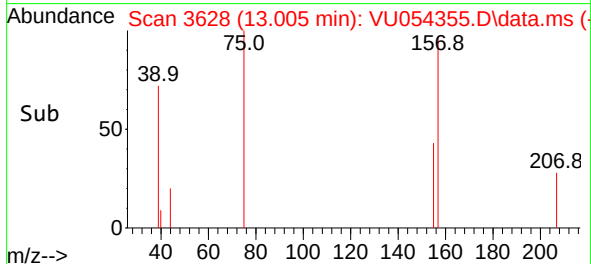
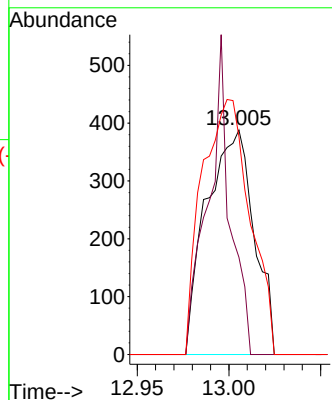
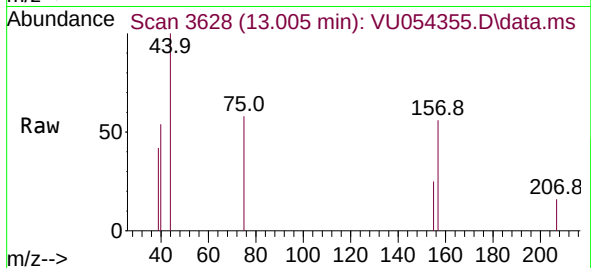




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.590 ug/l  
 RT: 13.005 min Scan# 30  
 Delta R.T. 0.013 min  
 Lab File: VU054355.D  
 Acq: 31 May 2023 22:32

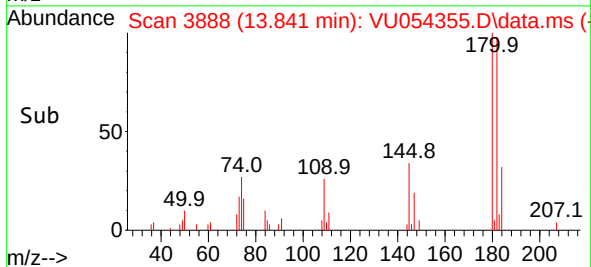
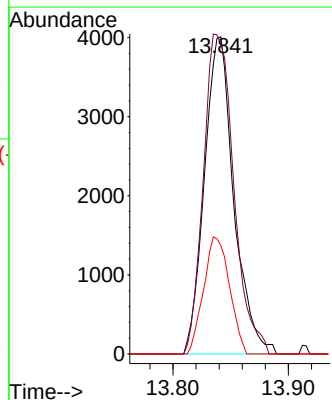
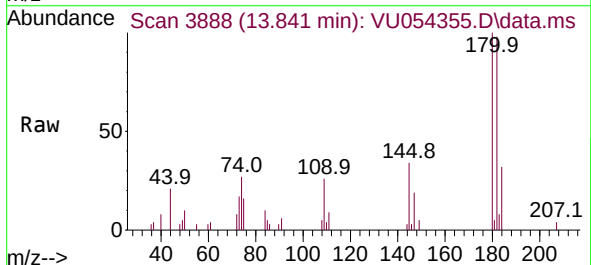
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0531MBL01

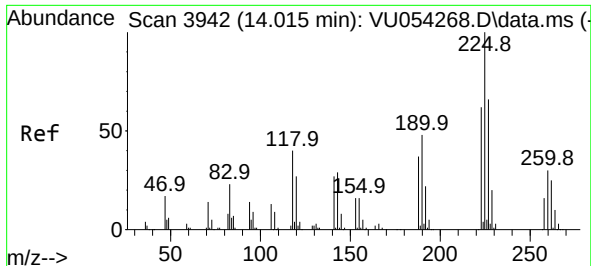
Tgt Ion: 75 Resp: 697  
 Ion Ratio Lower Upper  
 75 100  
 155 66.0 47.8 143.4  
 157 114.8 62.2 186.5



#93  
 1,2,4-Trichlorobenzene  
 Concen: 3.083 ug/l  
 RT: 13.841 min Scan# 3888  
 Delta R.T. 0.006 min  
 Lab File: VU054355.D  
 Acq: 31 May 2023 22:32

Tgt Ion:180 Resp: 7080  
 Ion Ratio Lower Upper  
 180 100  
 182 104.5 47.9 143.6  
 145 32.4 14.0 41.9

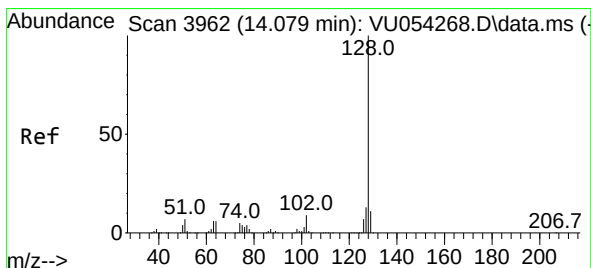
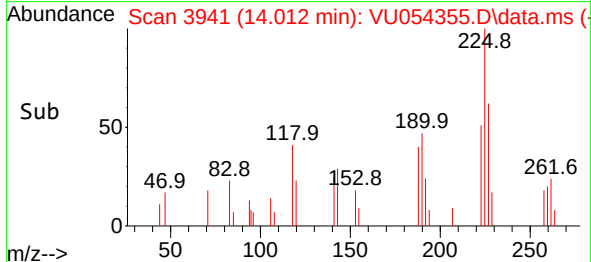
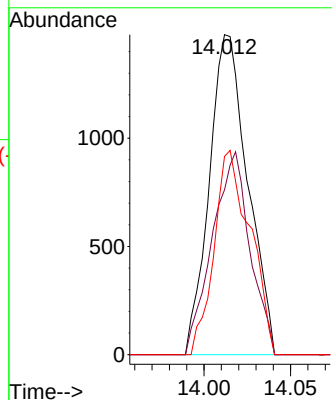
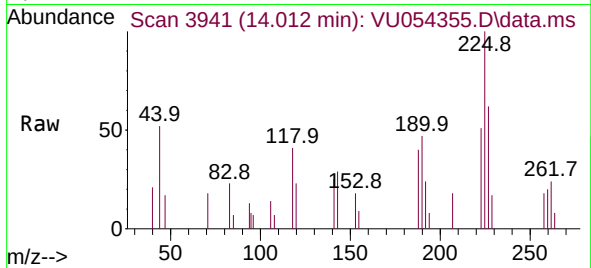




#94  
Hexachlorobutadiene  
Concen: 1.840 ug/l  
RT: 14.012 min Scan# 3942  
Delta R.T. -0.003 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

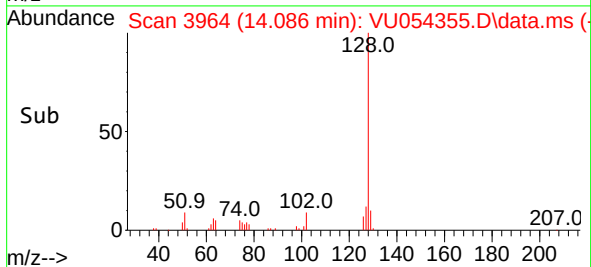
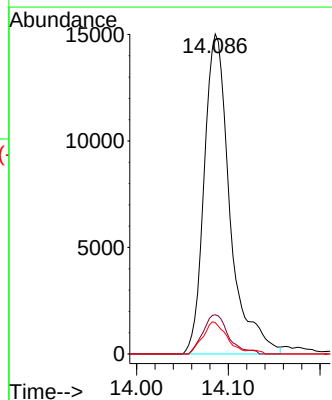
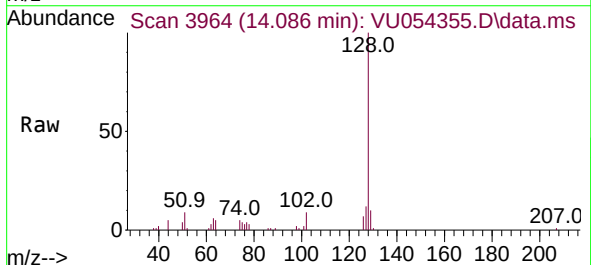
Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0531MBL01

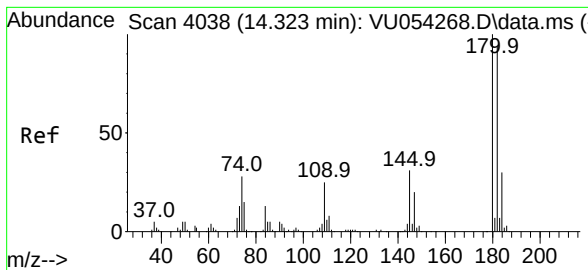
Tgt Ion:225 Resp: 2285  
Ion Ratio Lower Upper  
225 100  
223 62.0 31.3 93.9  
227 60.0 32.0 96.2



#95  
Naphthalene  
Concen: 3.831 ug/l  
RT: 14.086 min Scan# 3964  
Delta R.T. 0.007 min  
Lab File: VU054355.D  
Acq: 31 May 2023 22:32

Tgt Ion:128 Resp: 29299  
Ion Ratio Lower Upper  
128 100  
127 12.2 10.3 15.5  
129 9.3 8.6 13.0





#96  
 1,2,3-Trichlorobenzene  
 Concen: 3.069 ug/l  
 RT: 14.327 min Scan# 4039  
 Delta R.T. 0.004 min  
 Lab File: VU054355.D  
 Acq: 31 May 2023 22:32

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0531MBL01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 8770  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 93.4  | 48.4  | 145.0 |
| 145      | 28.5  | 14.8  | 44.4  |

