

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL100925\  
 Data File : VL043084.D  
 Acq On : 09 Oct 2025 12:44  
 Operator : SY/MD  
 Sample : Q3320-01DUP  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1DUP

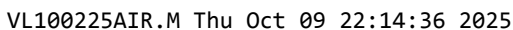
Quant Time: Oct 09 22:14:22 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL100225AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Oct 03 08:23:34 2025  
 Response via : Initial Calibration

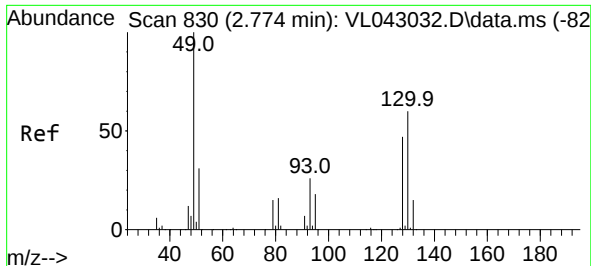
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.777  | 49    | 196118   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.943  | 114   | 517619   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.866  | 117   | 434677   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.364 | 95    | 333701   | 10.657   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 106.600% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.496  | 85    | 13990    | 0.423    | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.463  | 51    | 34710    | 1.086    | ppbv # | 77       |
| 4) Chloromethane              | 1.528  | 50    | 7782     | 0.645    | ppbv   | 91       |
| 6) Bromomethane               | 1.670  | 94    | 160      | 0.031    | ppbv # | 12       |
| 7) Chloroethane               | 1.700  | 64    | 175      | 0.037    | ppbv # | 50       |
| 9) Propene                    | 1.619  | 41    | 6013     | 0.466    | ppbv   | 84       |
| 11) Trichlorofluoromethane    | 1.871  | 101   | 7220     | 0.213    | ppbv   | 93       |
| 12) 1,1,2-Trichlorotrifluo... | 2.130  | 101   | 1694     | 0.063    | ppbv   | 95       |
| 13) Ethanol                   | 1.716  | 45    | 286862   | 612.721  | ppbv   | 89       |
| 15) Acetone                   | 1.829  | 43    | 183751   | 6.692    | ppbv   | 99       |
| 16) 1,3-Butadiene             | 1.596  | 39    | 1667     | 0.147    | ppbv # | 57       |
| 17) tert-Butyl alcohol        | 2.036  | 59    | 4169     | 0.144    | ppbv # | 86       |
| 19) Isopropyl Alcohol         | 1.881  | 45    | 26728    | 2.032    | ppbv # | 1        |
| 20) Methylene Chloride        | 2.059  | 84    | 10585    | 0.883    | ppbv   | 94       |
| 23) Vinyl Acetate             | 2.444  | 43    | 11173    | 1.917    | ppbv # | 95       |
| 25) Ethyl Acetate             | 2.816  | 43    | 12697    | 0.184    | ppbv # | 88       |
| 26) Hexane                    | 2.819  | 57    | 12990    | 0.490    | ppbv # | 38       |
| 29) Chloroform                | 2.839  | 83    | 8933     | 0.198    | ppbv   | 93       |
| 34) 2-Butanone                | 2.551  | 43    | 22379    | 0.637    | ppbv   | 98       |
| 35) Carbon Tetrachloride      | 3.748  | 117   | 3943     | 0.093    | ppbv # | 93       |
| 36) Benzene                   | 3.642  | 78    | 5040     | 0.102    | ppbv # | 81       |
| 39) 1,2-Dichloropropane       | 3.943  | 63    | 130705   | 7.130    | ppbv # | 23       |
| 40) 1,4-Dioxane               | 4.580  | 88    | 337      | 0.043    | ppbv # | 34       |
| 41) Tetrahydrofuran           | 3.053  | 42    | 556      | 0.031    | ppbv # | 87       |
| 51) 2-Hexanone                | 7.425  | 43    | 3733     | 0.122    | ppbv # | 96       |
| 52) Tetrachloroethene         | 8.208  | 164   | 638      | 0.035    | ppbv # | 58       |
| 53) Toluene                   | 6.907  | 91    | 6835     | 0.137    | ppbv   | 100      |
| 57) Chlorobenzene             | 8.904  | 112   | 1535     | 0.033    | ppbv # | 85       |
| 58) Ethyl Benzene             | 9.516  | 91    | 2820     | 0.042    | ppbv   | 97       |
| 60) o-Xylene                  | 9.950  | 91    | 2855     | 0.050    | ppbv   | 92       |
| 62) Isopropylbenzene          | 10.523 | 105   | 2741     | 0.032    | ppbv   | 93       |
| 63) 1,1,2,2-Tetrachloroethane | 9.956  | 83    | 1817     | 0.045    | ppbv # | 93       |
| 65) tert-Butylbenzene         | 11.520 | 119   | 4546     | 0.059    | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.759 | 105   | 3947     | 0.037    | ppbv   | 92       |
| 71) 2-Chlorotoluene           | 10.888 | 91    | 3254     | 0.052    | ppbv   | 91       |
| 75) 1,3-Dichlorobenzene       | 11.597 | 146   | 1519     | 0.036    | ppbv   | 92       |
| 77) 1,2-Dichlorobenzene       | 11.937 | 146   | 2244     | 0.053    | ppbv   | 92       |
| 78) Hexachloro-1,3-Butadiene  | 13.869 | 225   | 3301     | 0.111    | ppbv   | 98       |
| 79) Naphthalene               | 13.504 | 128   | 214      | 0.238    | ppbv # | 81       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142   | 185      | 0.669    | ppbv # | 81       |
| -----                         |        |       |          |          |        |          |

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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
IA1DUP

Quant Time: Oct 09 22:14:22 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL100225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Oct 03 08:23:34 2025  
Response via : Initial Calibration

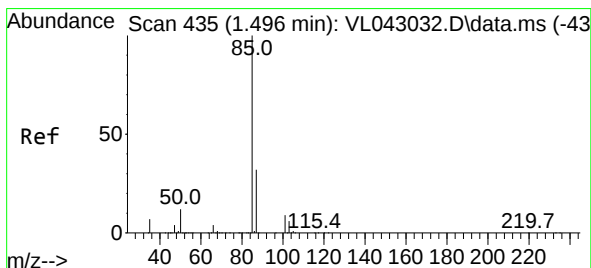
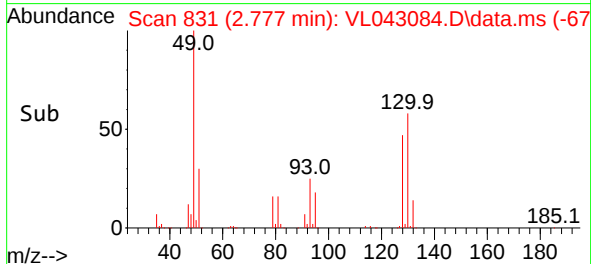
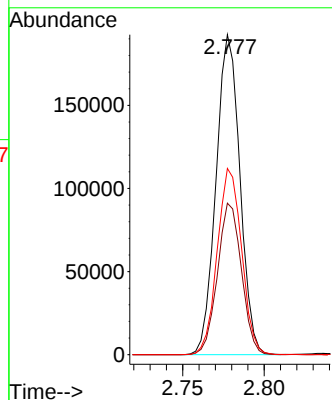
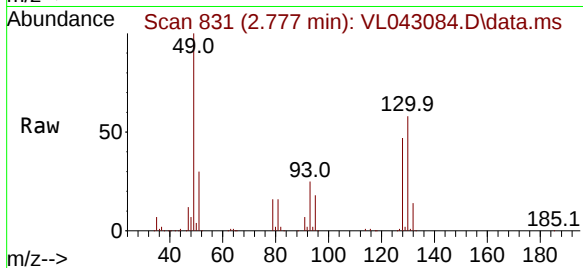




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.777 min Scan# 831  
Delta R.T. 0.003 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

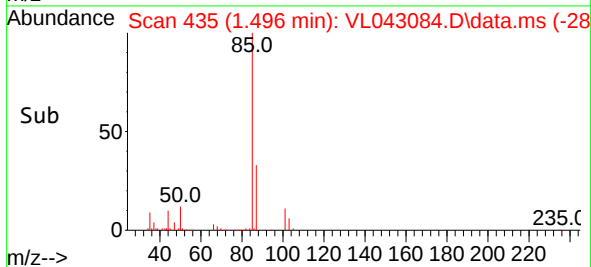
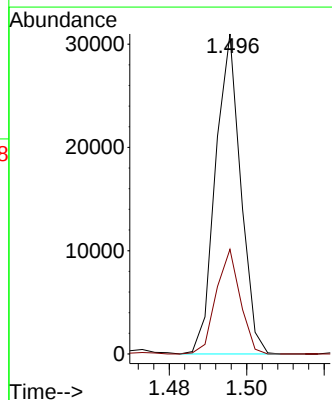
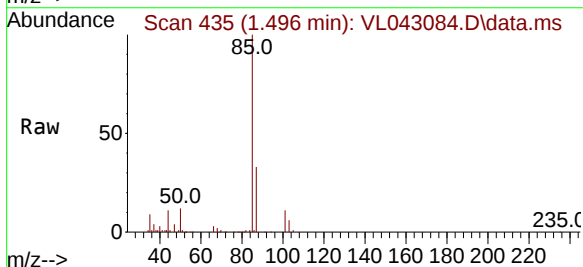
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

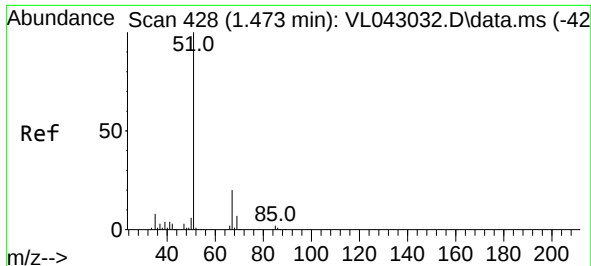
Tgt Ion: 49 Resp: 196118  
Ion Ratio Lower Upper  
49 100  
128 47.5 24.1 72.2  
130 59.3 31.4 94.3



#2  
Dichlorodifluoromethane  
Concen: 0.423 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. 0.000 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

Tgt Ion: 85 Resp: 13990  
Ion Ratio Lower Upper  
85 100  
87 32.7 25.8 38.6

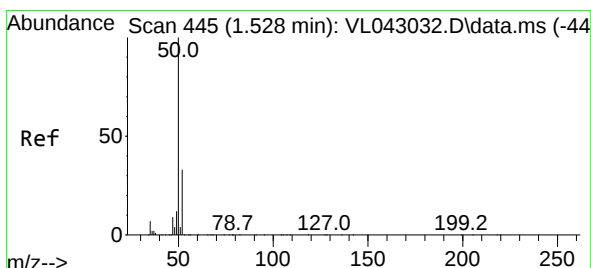
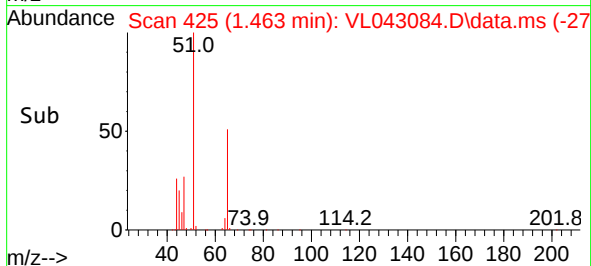
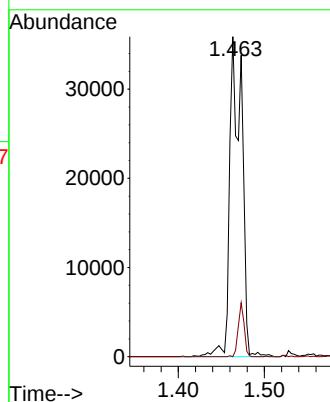
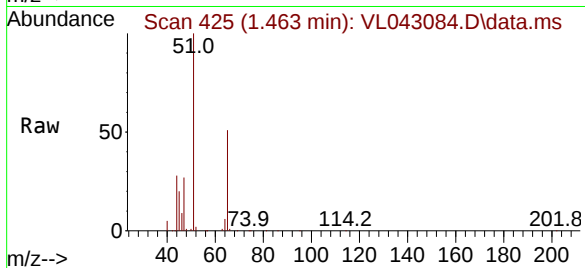




#3  
Chlorodifluoromethane  
Concen: 1.086 ppbv  
RT: 1.463 min Scan# 41  
Delta R.T. -0.010 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

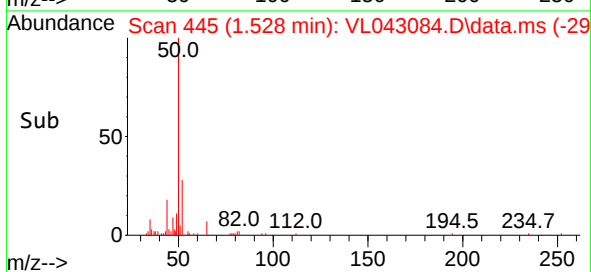
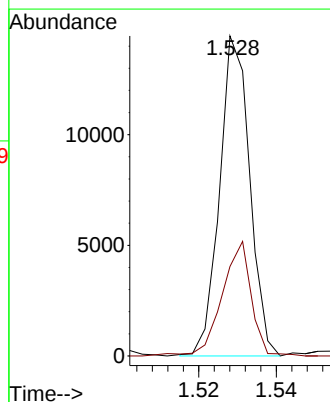
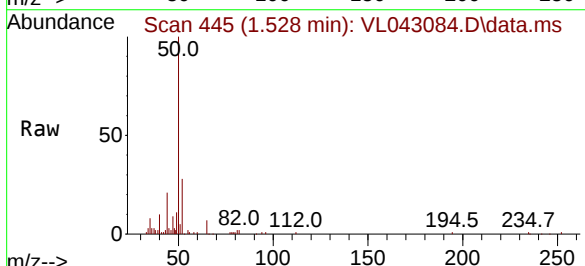
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

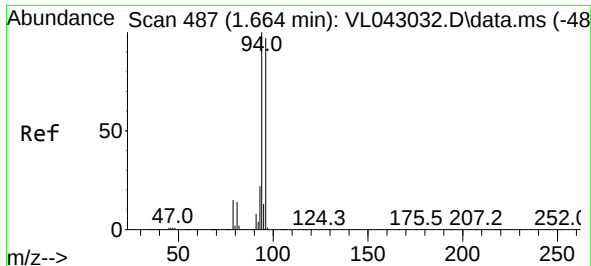
Tgt Ion: 51 Resp: 34710  
Ion Ratio Lower Upper  
51 100  
67 8.4 15.1 22.7#



#4  
Chloromethane  
Concen: 0.645 ppbv  
RT: 1.528 min Scan# 445  
Delta R.T. 0.000 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

Tgt Ion: 50 Resp: 7782  
Ion Ratio Lower Upper  
50 100  
52 27.4 26.2 39.2

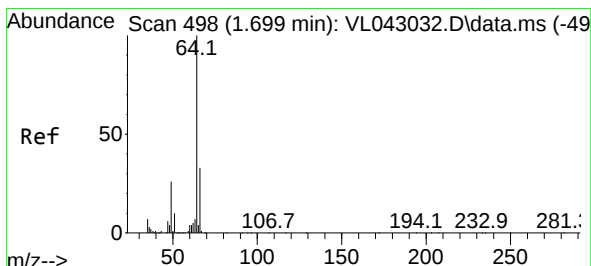
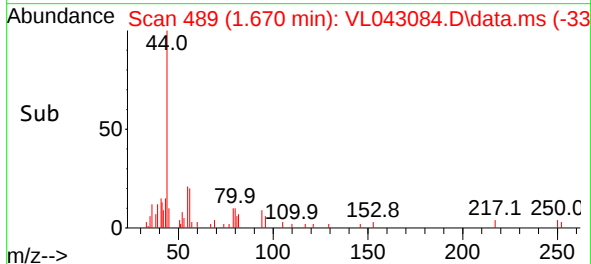
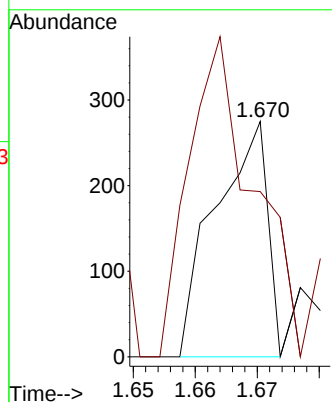
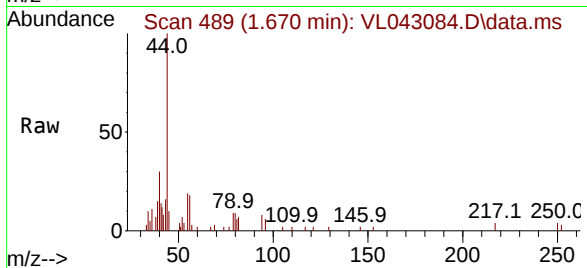




#6  
Bromomethane  
Concen: 0.031 ppbv  
RT: 1.670 min Scan# 487  
Delta R.T. 0.007 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

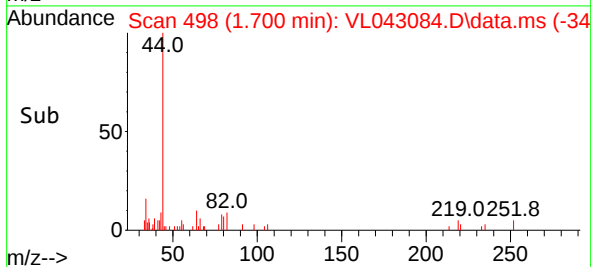
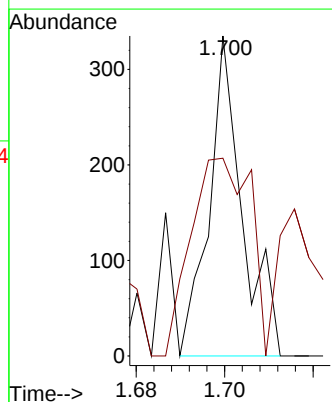
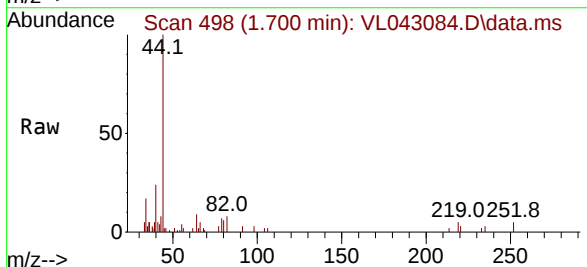
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

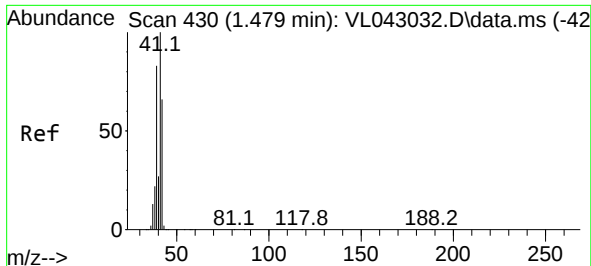
Tgt Ion: 94 Resp: 160  
Ion Ratio Lower Upper  
94 100  
96 10.9 77.6 116.4#



#7  
Chloroethane  
Concen: 0.037 ppbv  
RT: 1.700 min Scan# 498  
Delta R.T. 0.000 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

Tgt Ion: 64 Resp: 175  
Ion Ratio Lower Upper  
64 100  
66 61.8 26.6 39.8#





#9

Propene

Concen: 0.466 ppbv

RT: 1.619 min Scan# 41

Delta R.T. 0.139 min

Lab File: VL043084.D

Acq: 09 Oct 2025 12:44

Instrument :

MSVOA\_L

ClientSampleId :

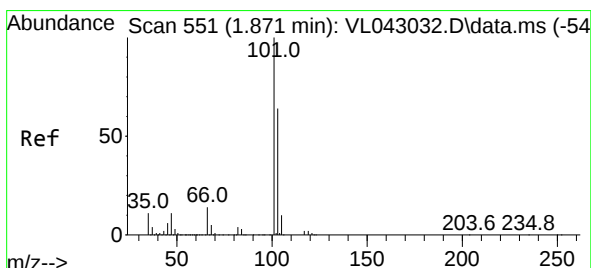
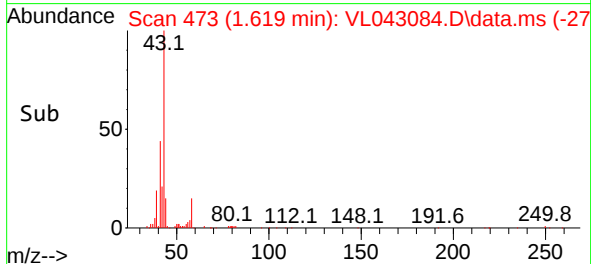
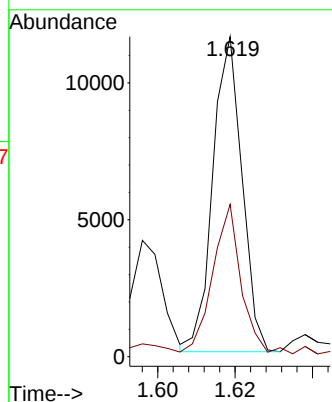
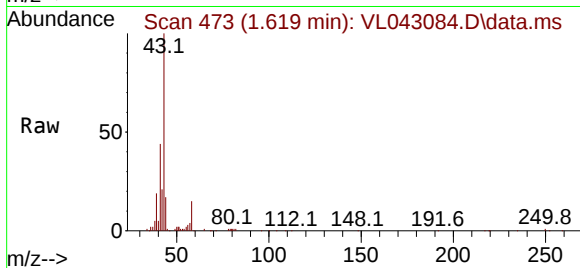
IA1DUP

Tgt Ion: 41 Resp: 6013

Ion Ratio Lower Upper

41 100

42 53.4 53.3 79.9



#11

Trichlorofluoromethane

Concen: 0.213 ppbv

RT: 1.871 min Scan# 551

Delta R.T. 0.000 min

Lab File: VL043084.D

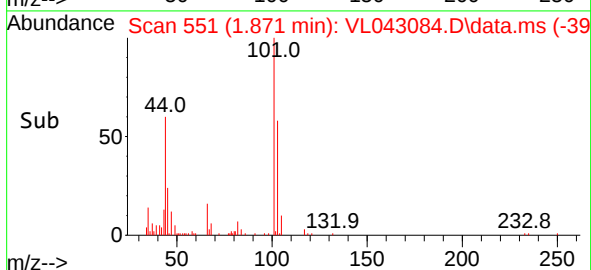
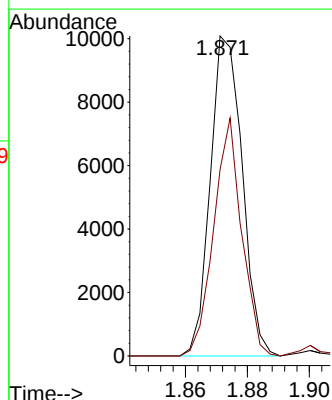
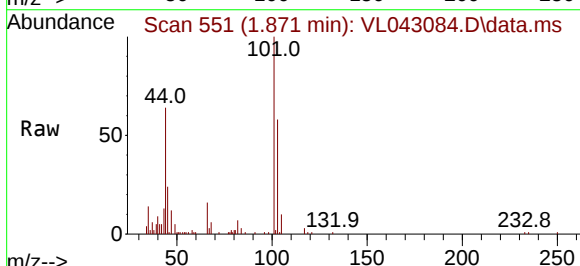
Acq: 09 Oct 2025 12:44

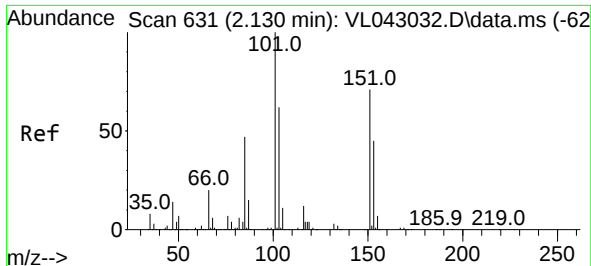
Tgt Ion: 101 Resp: 7220

Ion Ratio Lower Upper

101 100

103 58.2 51.1 76.7





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.063 ppbv

RT: 2.130 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL043084.D

Acq: 09 Oct 2025 12:44

Instrument :

MSVOA\_L

ClientSampleId :

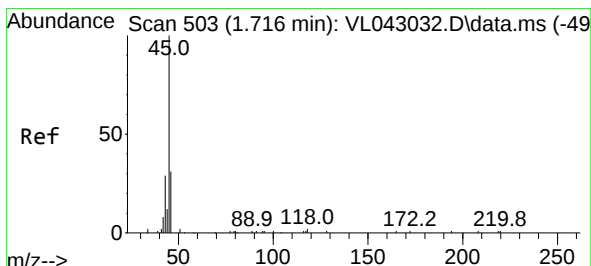
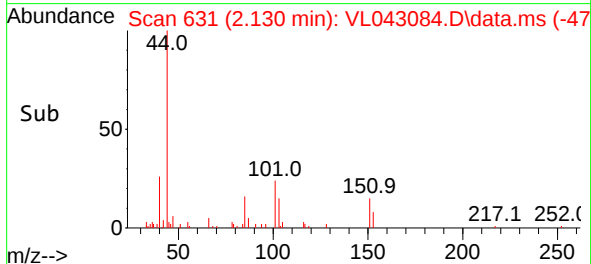
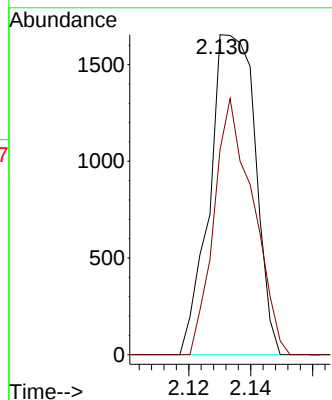
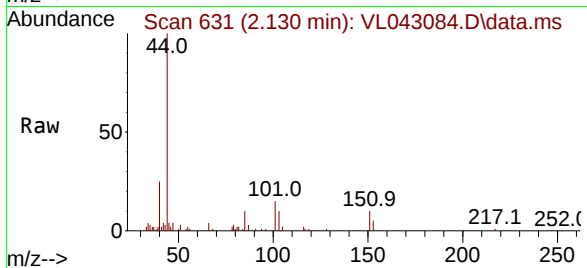
IA1DUP

Tgt Ion:101 Resp: 1694

Ion Ratio Lower Upper

101 100

151 68.6 58.1 87.1



#13

Ethanol

Concen: 612.721 ppbv

RT: 1.716 min Scan# 503

Delta R.T. -0.000 min

Lab File: VL043084.D

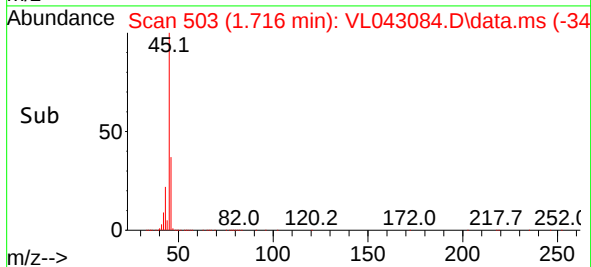
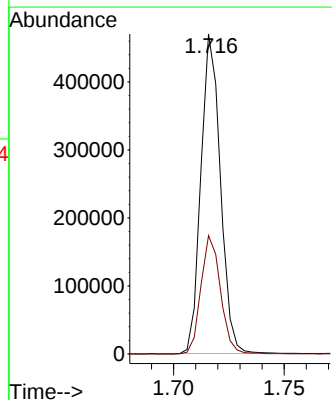
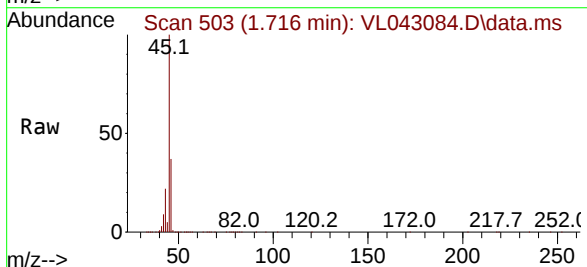
Acq: 09 Oct 2025 12:44

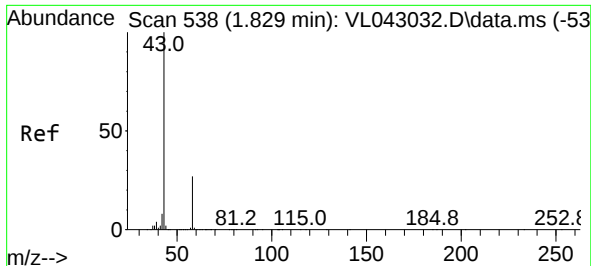
Tgt Ion: 45 Resp: 286862

Ion Ratio Lower Upper

45 100

46 37.6 17.8 71.4

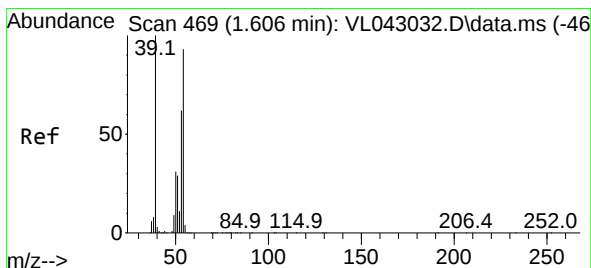
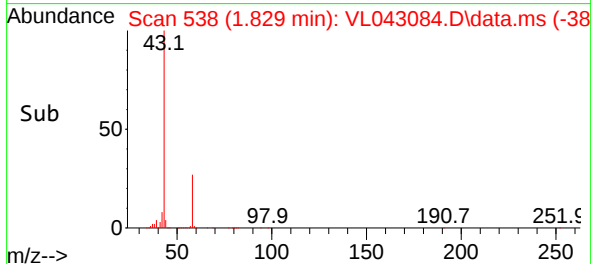
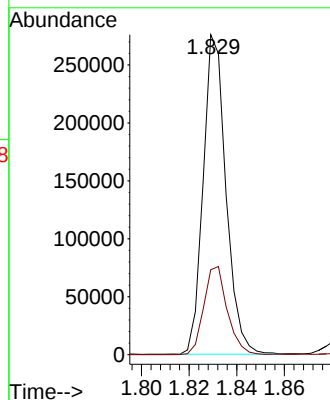
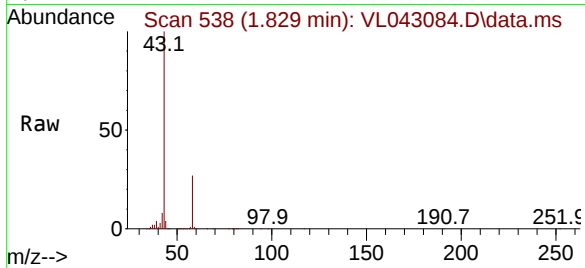




#15  
Acetone  
Concen: 6.692 ppbv  
RT: 1.829 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

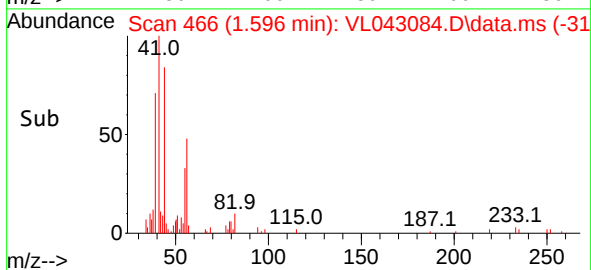
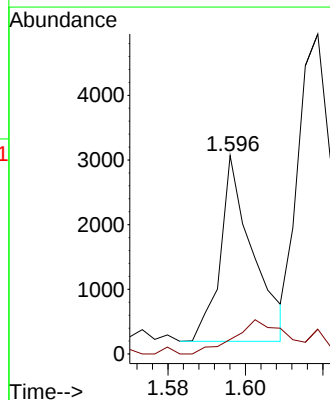
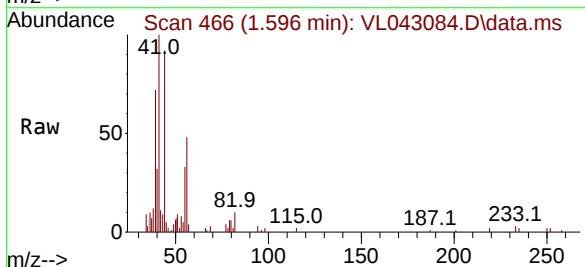
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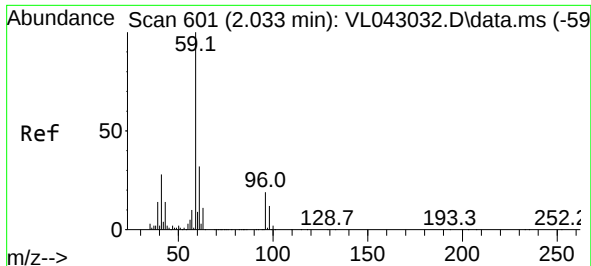
Tgt Ion: 43 Resp: 183751  
Ion Ratio Lower Upper  
43 100  
58 28.6 22.2 33.4



#16  
1,3-Butadiene  
Concen: 0.147 ppbv  
RT: 1.596 min Scan# 466  
Delta R.T. -0.010 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

Tgt Ion: 39 Resp: 1667  
Ion Ratio Lower Upper  
39 100  
54 39.6 61.4 92.2#





#17

tert-Butyl alcohol

Concen: 0.144 ppbv

RT: 2.036 min Scan# 601

Delta R.T. 0.003 min

Lab File: VL043084.D

Acq: 09 Oct 2025 12:44

Instrument :

MSVOA\_L

ClientSampleId :

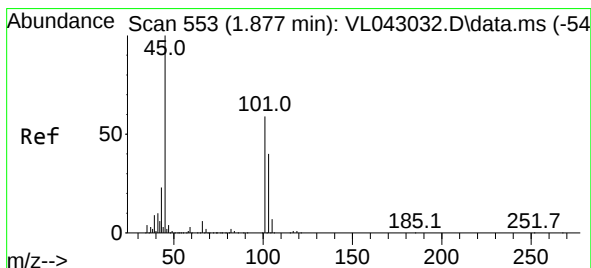
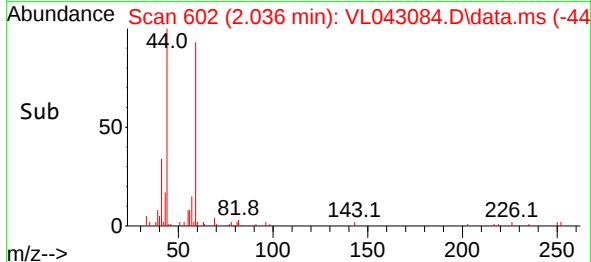
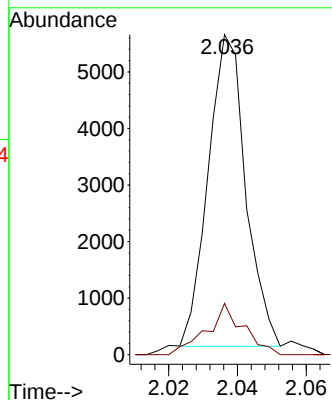
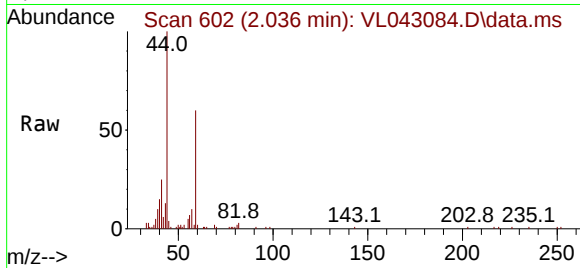
IA1DUP

Tgt Ion: 59 Resp: 4169

Ion Ratio Lower Upper

59 100

57 16.0 8.5 12.7#



#19

Isopropyl Alcohol

Concen: 2.032 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.003 min

Lab File: VL043084.D

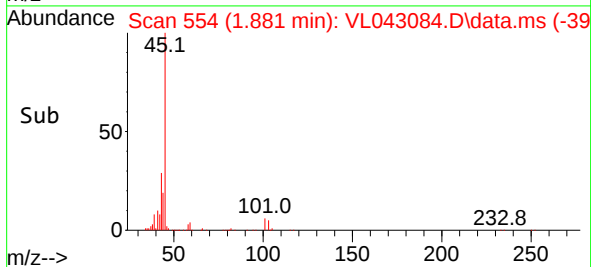
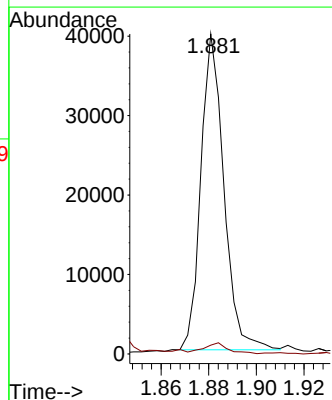
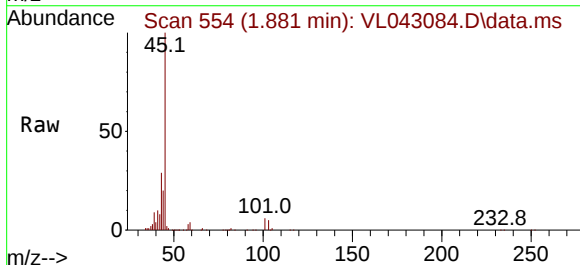
Acq: 09 Oct 2025 12:44

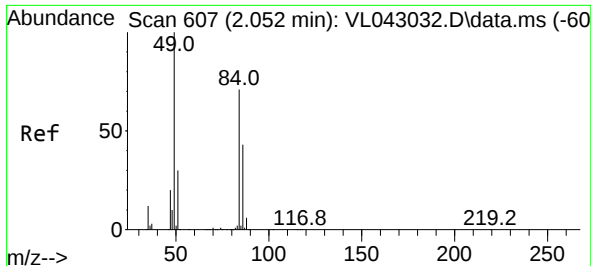
Tgt Ion: 45 Resp: 26728

Ion Ratio Lower Upper

45 100

58 196.4 42.3 63.5#

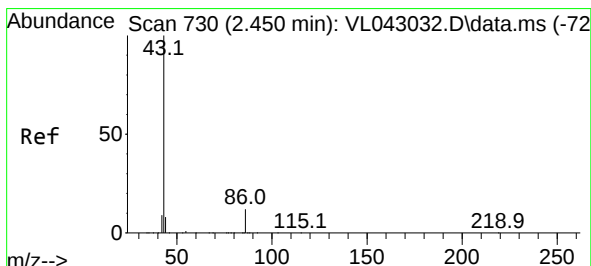
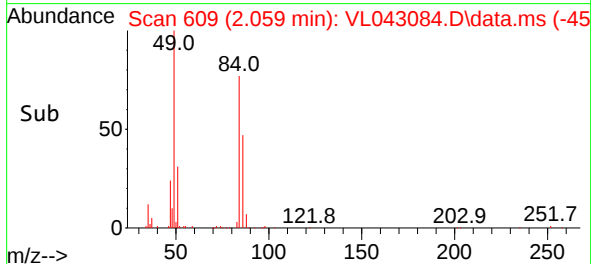
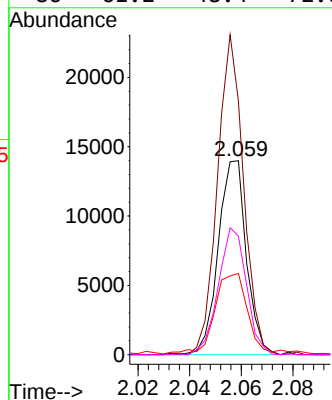
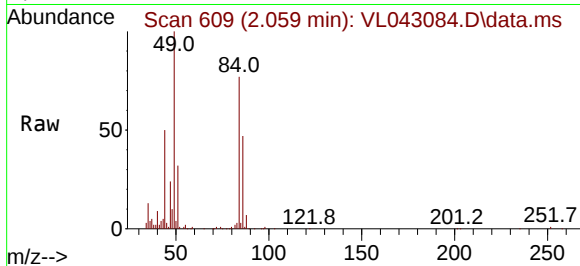




#20  
Methylene Chloride  
Concen: 0.883 ppbv  
RT: 2.059 min Scan# 607  
Delta R.T. 0.007 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

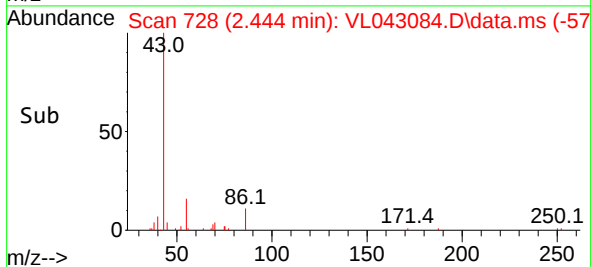
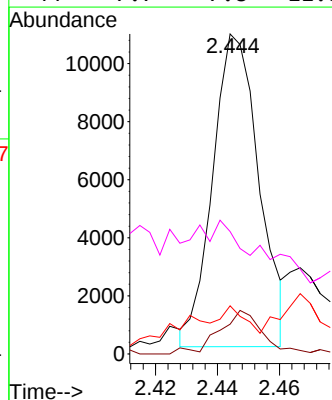
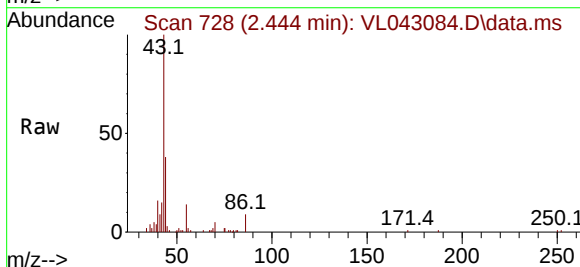
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

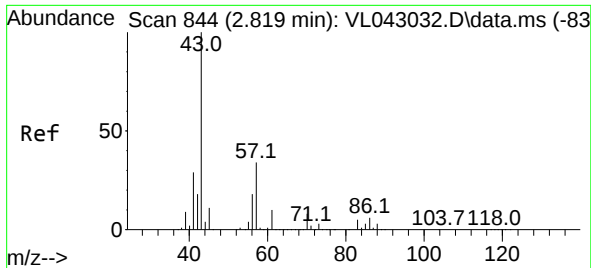
|             |             |       |       |
|-------------|-------------|-------|-------|
| Tgt Ion: 84 | Resp: 10585 |       |       |
| Ion         | Ratio       | Lower | Upper |
| 84          | 100         |       |       |
| 49          | 130.6       | 112.5 | 168.7 |
| 51          | 40.5        | 34.2  | 51.2  |
| 86          | 61.2        | 48.4  | 72.6  |



#23  
Vinyl Acetate  
Concen: 1.917 ppbv  
RT: 2.444 min Scan# 728  
Delta R.T. -0.006 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion: 43 | Resp: | 11173 |
| Ion | Ratio   | Lower | Upper |
| 43  | 100     |       |       |
| 86  | 8.4     | 7.5   | 11.3  |
| 42  | 8.2     | 8.4   | 12.6# |
| 44  | 7.7     | 7.8   | 11.8# |

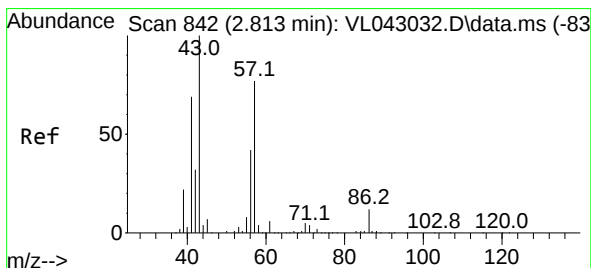
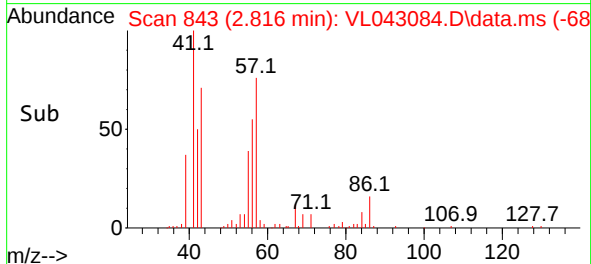
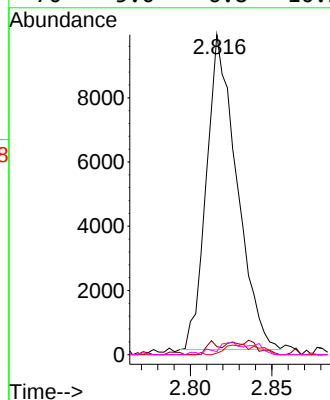
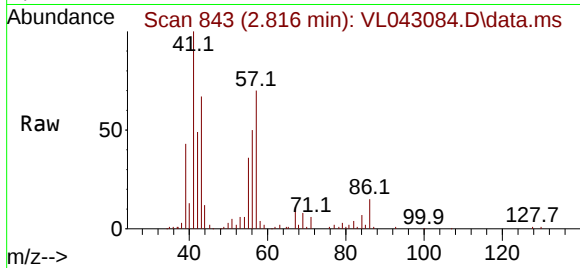




#25  
Ethyl Acetate  
Concen: 0.184 ppbv  
RT: 2.816 min Scan# 843  
Delta R.T. -0.003 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

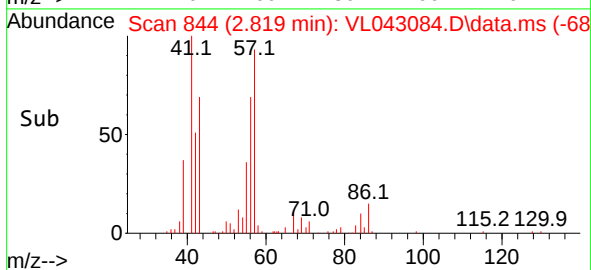
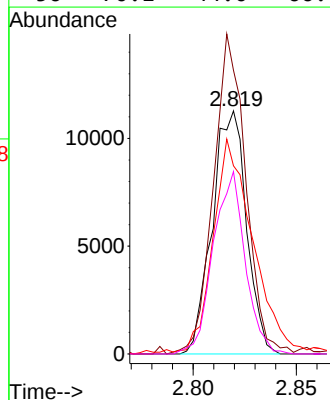
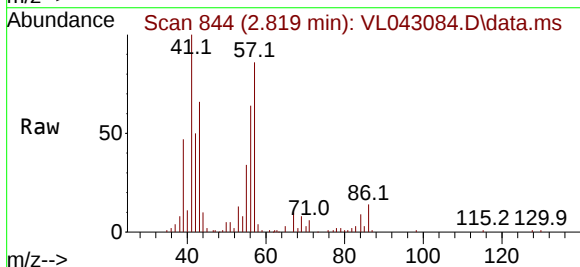
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

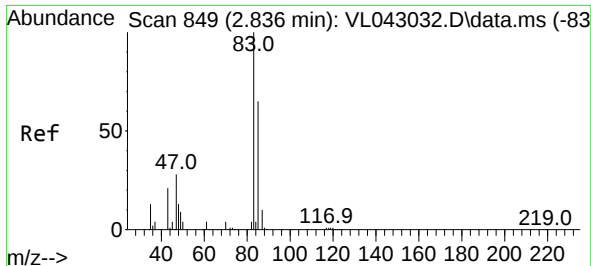
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 12697 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 6.2      | 8.3 12.5#   |
| 61 3.6      | 7.5 11.3#   |
| 70 5.0      | 6.8 10.2#   |



#26  
Hexane  
Concen: 0.490 ppbv  
RT: 2.819 min Scan# 844  
Delta R.T. 0.007 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 12990  |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 126.0    | 76.1 114.1#  |
| 43 106.6    | 201.4 302.0# |
| 56 70.1     | 44.0 66.0#   |





#29

Chloroform

Concen: 0.198 ppbv

RT: 2.839 min Scan# 849

Delta R.T. 0.003 min

Lab File: VL043084.D

Acq: 09 Oct 2025 12:44

Instrument :

MSVOA\_L

ClientSampleId :

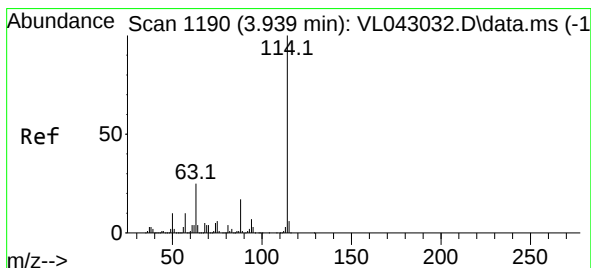
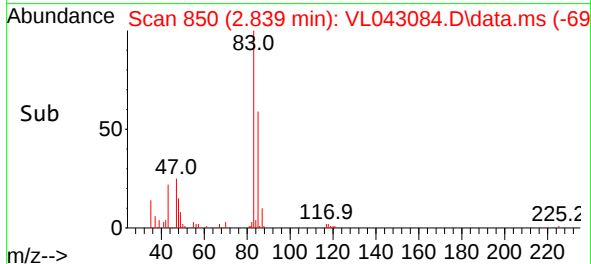
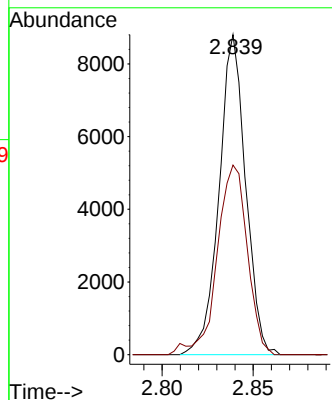
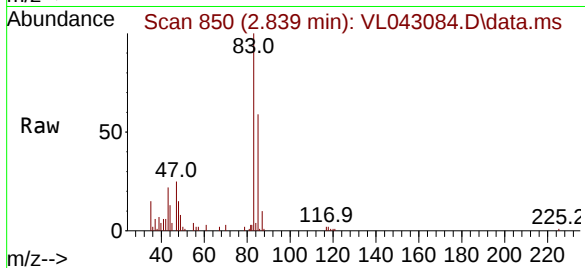
IA1DUP

Tgt Ion: 83 Resp: 8933

Ion Ratio Lower Upper

83 100

85 59.2 52.0 78.0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.943 min Scan# 1191

Delta R.T. 0.003 min

Lab File: VL043084.D

Acq: 09 Oct 2025 12:44

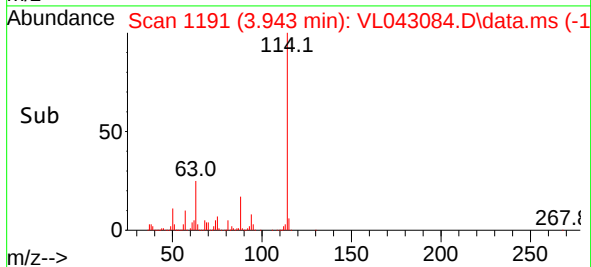
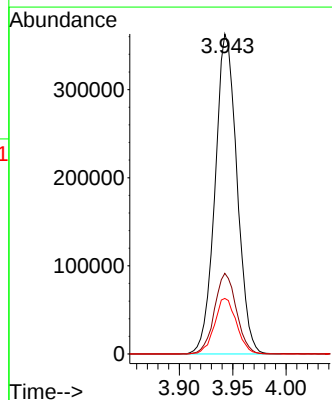
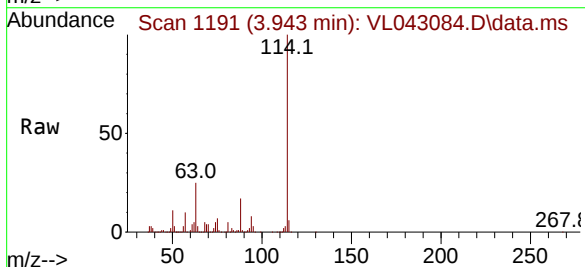
Tgt Ion:114 Resp: 517619

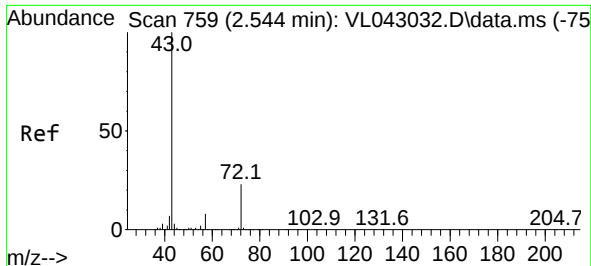
Ion Ratio Lower Upper

114 100

63 25.3 19.4 29.2

88 17.5 13.9 20.9

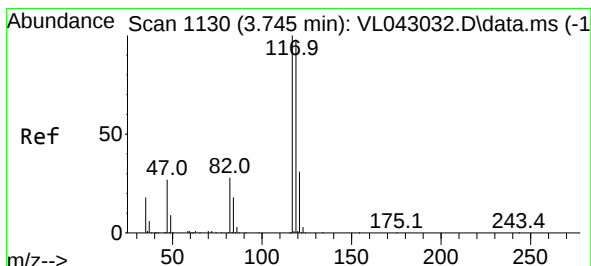
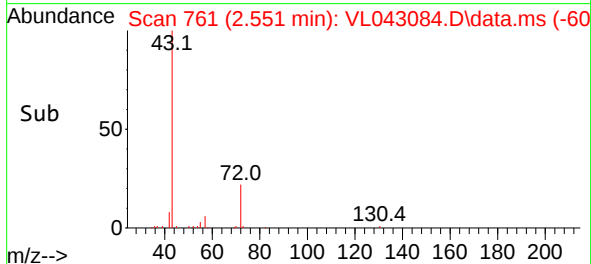
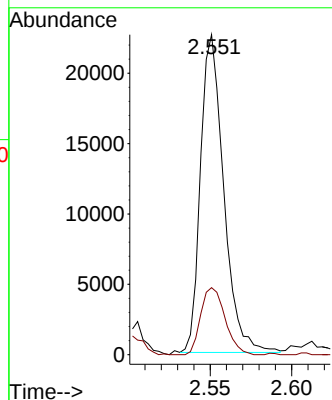
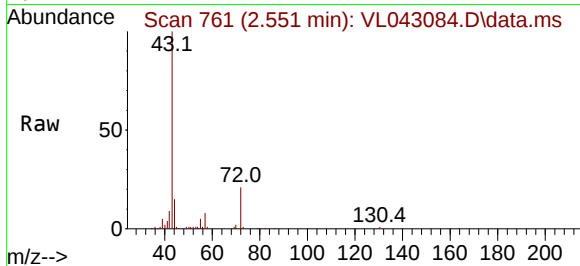




#34  
2-Butanone  
Concen: 0.637 ppbv  
RT: 2.551 min Scan# 71  
Delta R.T. 0.007 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

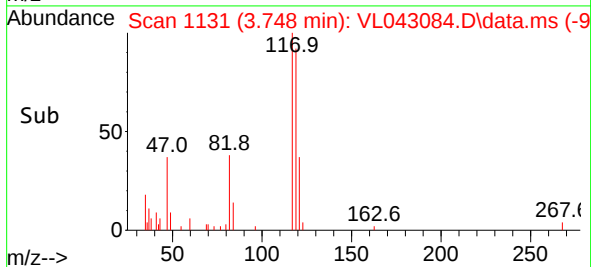
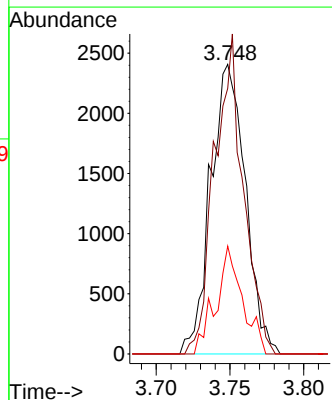
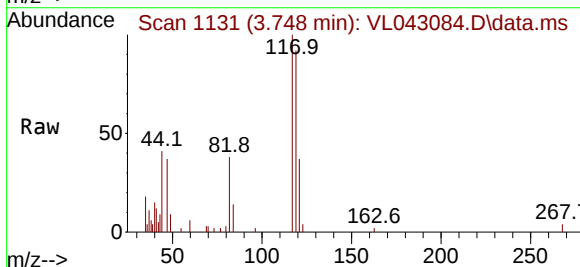
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

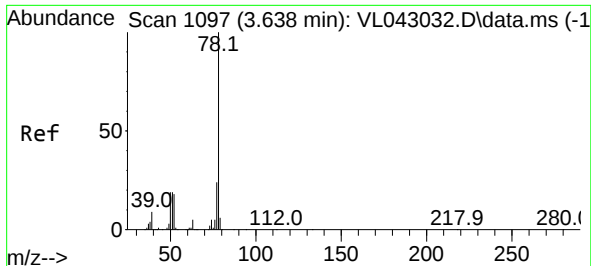
Tgt Ion: 43 Resp: 22379  
Ion Ratio Lower Upper  
43 100  
72 22.2 18.4 27.6



#35  
Carbon Tetrachloride  
Concen: 0.093 ppbv  
RT: 3.748 min Scan# 1131  
Delta R.T. 0.003 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

Tgt Ion: 117 Resp: 3943  
Ion Ratio Lower Upper  
117 100  
119 91.7 78.2 117.4  
121 37.2 24.8 37.2#





#36

Benzene

Concen: 0.102 ppbv

RT: 3.642 min Scan# 1191

Delta R.T. 0.003 min

Lab File: VL043084.D

Acq: 09 Oct 2025 12:44

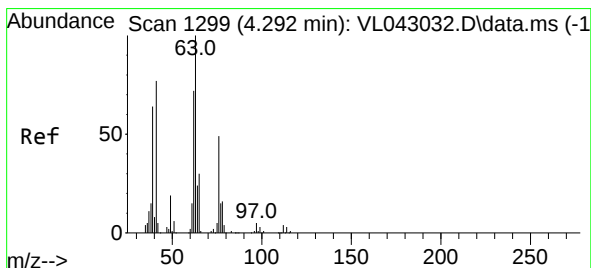
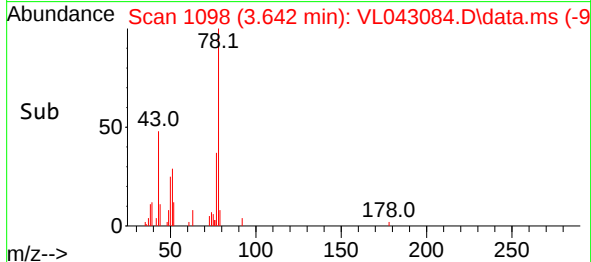
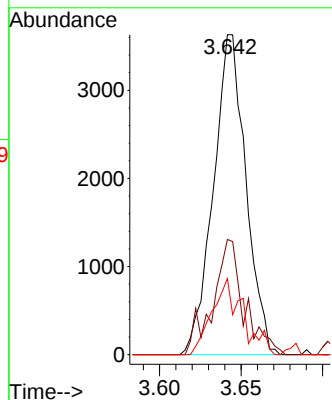
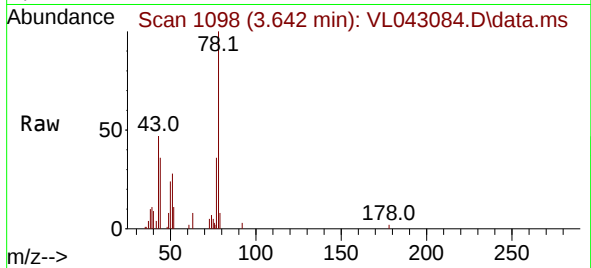
Instrument :

MSVOA\_1

ClientSampleId :

IA1DUP

|             |             |
|-------------|-------------|
| Tgt Ion: 78 | Resp: 5040  |
| Ion Ratio   | Lower Upper |
| 78 100      |             |
| 77 36.0     | 19.2 28.8#  |
| 50 23.8     | 14.9 22.3#  |



#39

1,2-Dichloropropane

Concen: 7.130 ppbv

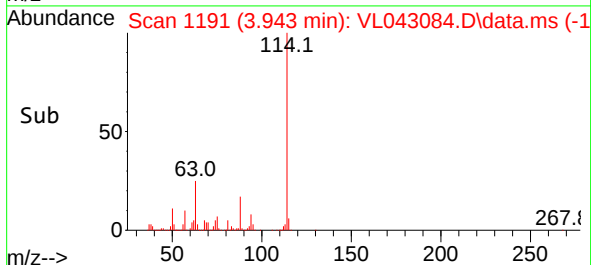
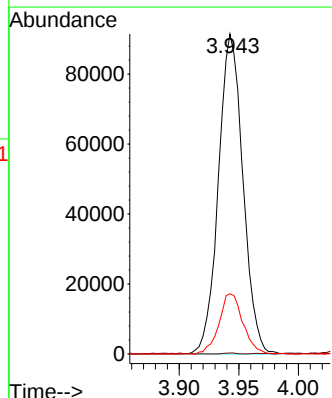
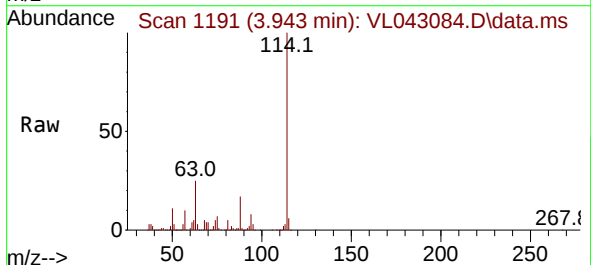
RT: 3.943 min Scan# 1191

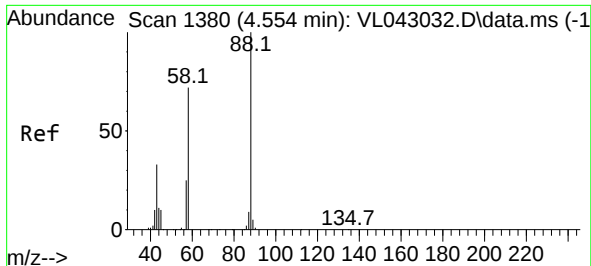
Delta R.T. -0.349 min

Lab File: VL043084.D

Acq: 09 Oct 2025 12:44

|             |              |
|-------------|--------------|
| Tgt Ion: 63 | Resp: 130705 |
| Ion Ratio   | Lower Upper  |
| 63 100      |              |
| 41 0.2      | 61.6 92.4#   |
| 62 18.8     | 58.1 87.1#   |

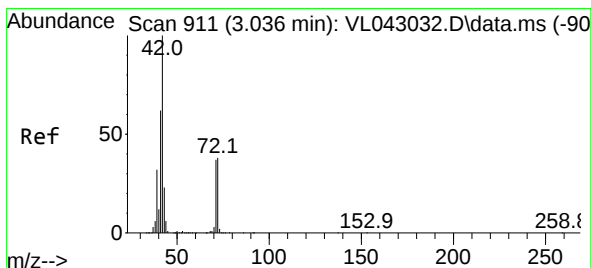
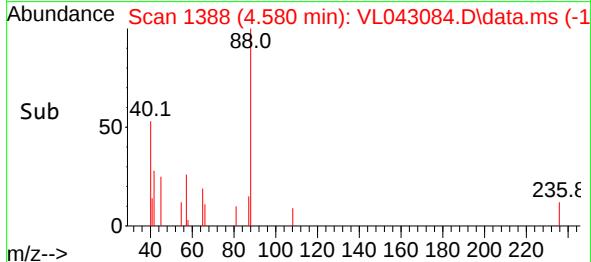
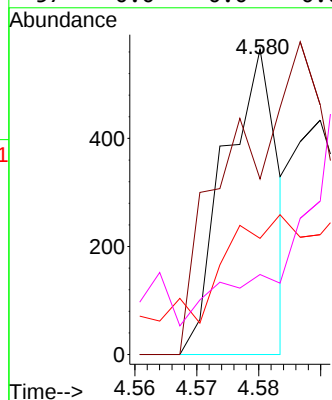
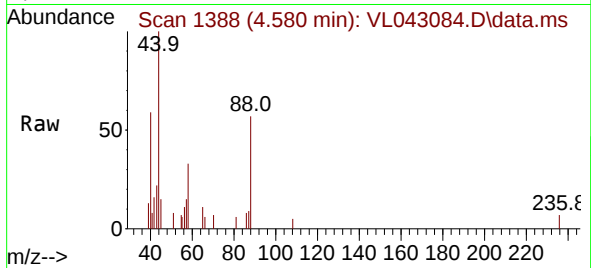




#40  
1,4-Dioxane  
Concen: 0.043 ppbv  
RT: 4.580 min Scan# 11  
Delta R.T. 0.026 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

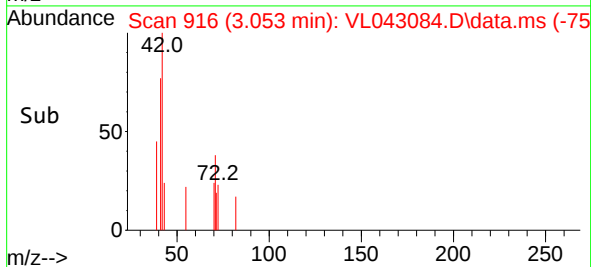
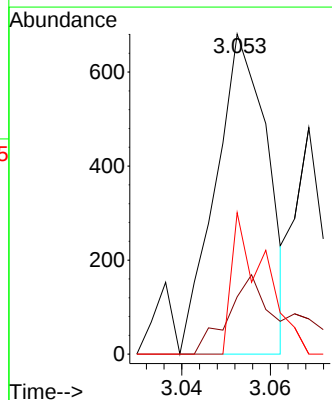
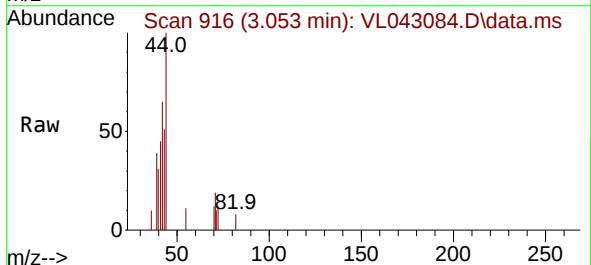
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

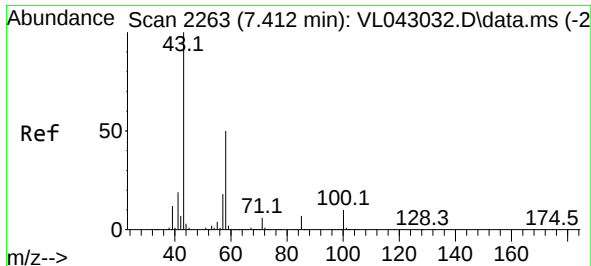
Tgt Ion: 88 Resp: 337  
Ion Ratio Lower Upper  
88 100  
58 17.5 56.2 84.2#  
43 71.2 25.7 38.5#  
57 0.0 0.0 0.0



#41  
Tetrahydrofuran  
Concen: 0.031 ppbv  
RT: 3.053 min Scan# 916  
Delta R.T. 0.016 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

Tgt Ion: 42 Resp: 556  
Ion Ratio Lower Upper  
42 100  
72 31.3 31.0 46.6  
71 28.6 29.8 44.6#

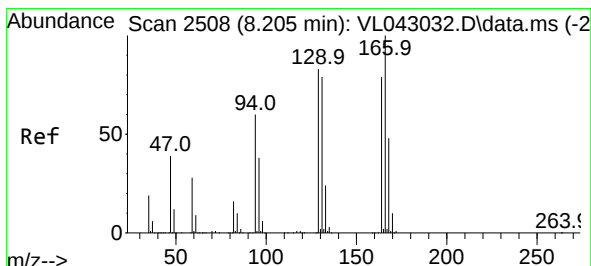
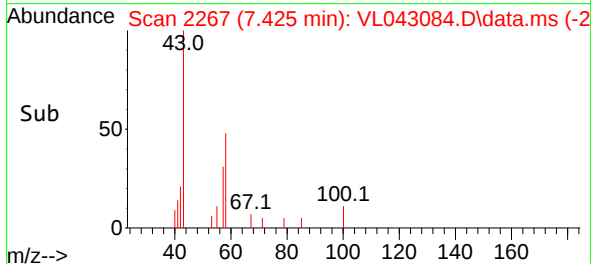
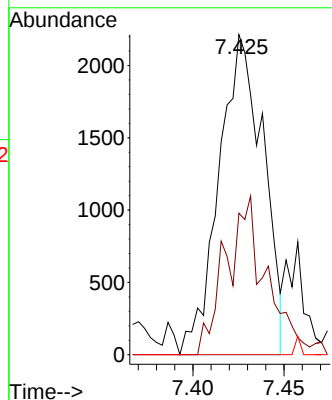
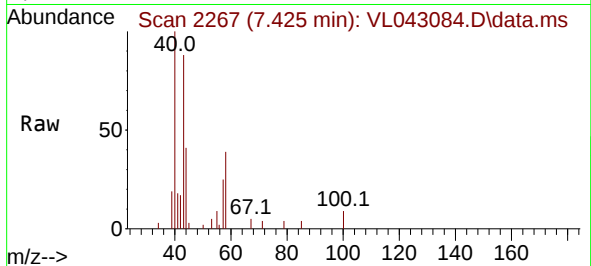




#51  
2-Hexanone  
Concen: 0.122 ppbv  
RT: 7.425 min Scan# 21  
Delta R.T. 0.013 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

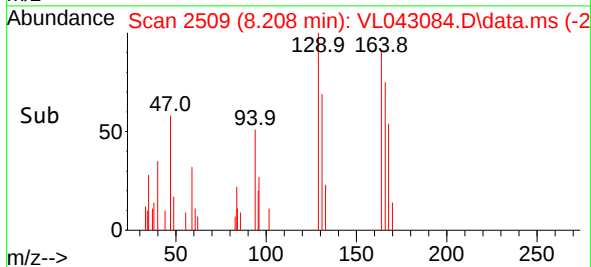
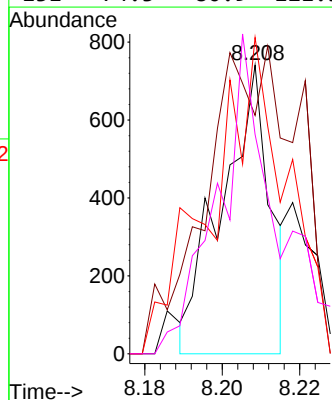
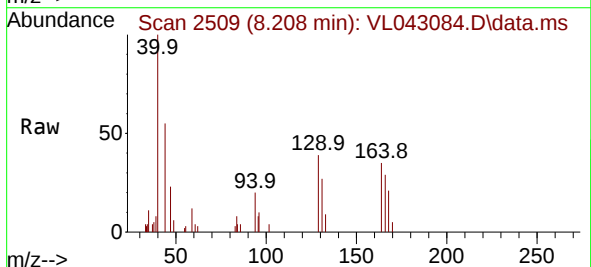
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

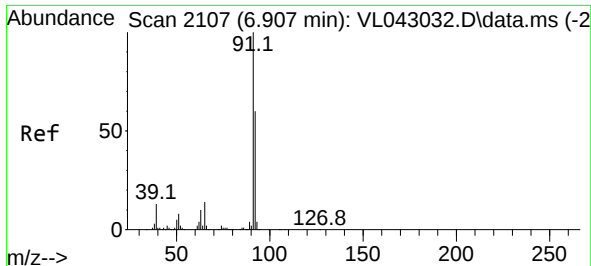
Tgt Ion: 43 Resp: 3733  
Ion Ratio Lower Upper  
43 100  
58 45.9 39.1 58.7  
98 0.0 0.5 0.7#



#52  
Tetrachloroethene  
Concen: 0.035 ppbv  
RT: 8.208 min Scan# 2509  
Delta R.T. 0.003 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

Tgt Ion: 164 Resp: 638  
Ion Ratio Lower Upper  
164 100  
166 61.7 101.8 152.8#  
129 66.1 84.5 126.7#  
131 74.3 80.9 121.3#

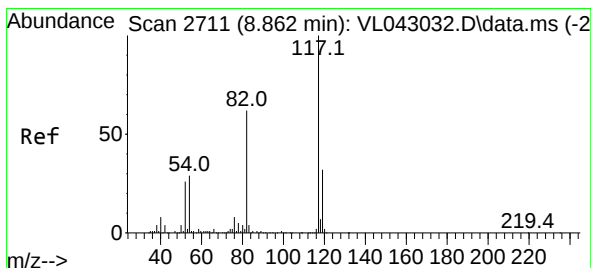
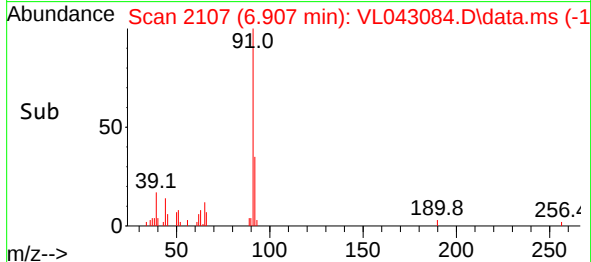
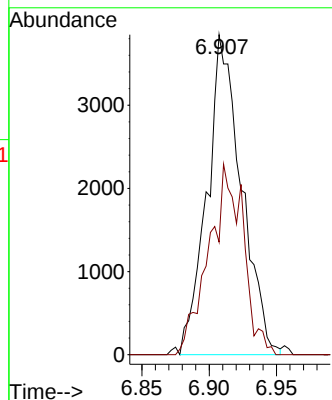
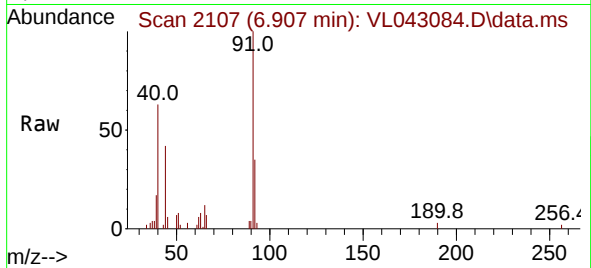




#53  
Toluene  
Concen: 0.137 ppbv  
RT: 6.907 min Scan# 2107  
Delta R.T. 0.000 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

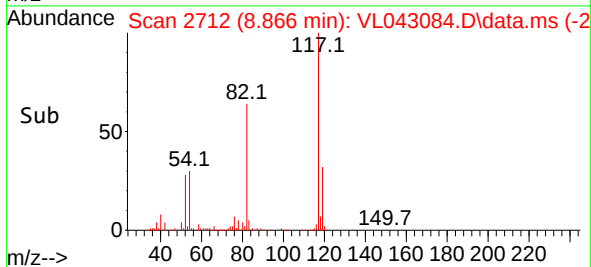
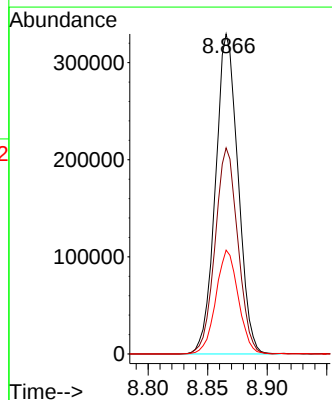
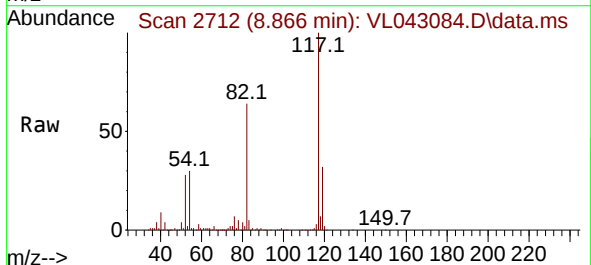
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MSVOA\_L  
ClientSampleId :  
IA1DUP

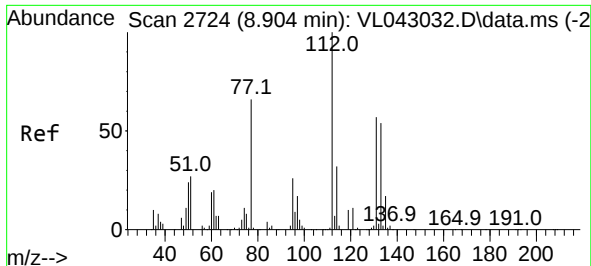
Tgt Ion: 91 Resp: 6835  
Ion Ratio Lower Upper  
91 100  
92 59.5 47.8 71.6



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.866 min Scan# 2712  
Delta R.T. 0.003 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

Tgt Ion: 117 Resp: 434677  
Ion Ratio Lower Upper  
117 100  
82 65.1 53.0 79.6  
119 32.4 25.4 38.2

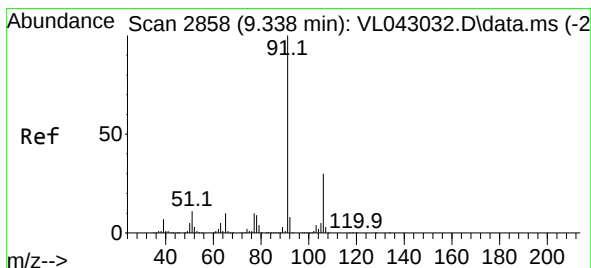
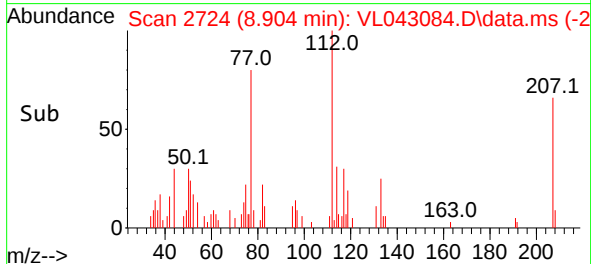
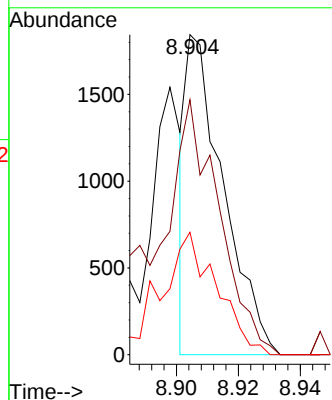
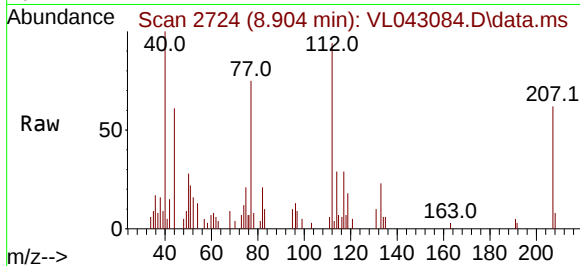




#57  
Chlorobenzene  
Concen: 0.033 ppbv  
RT: 8.904 min Scan# 2113  
Delta R.T. 0.000 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

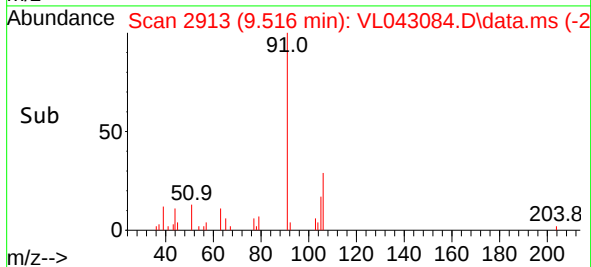
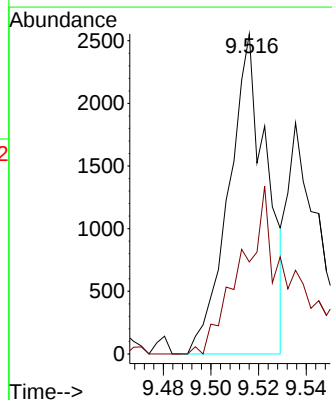
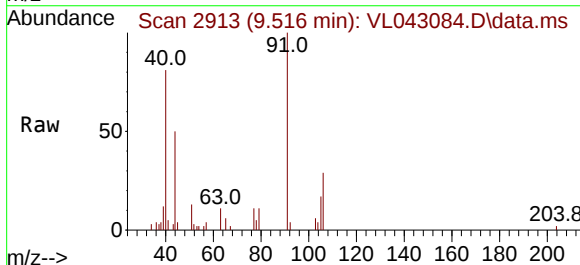
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

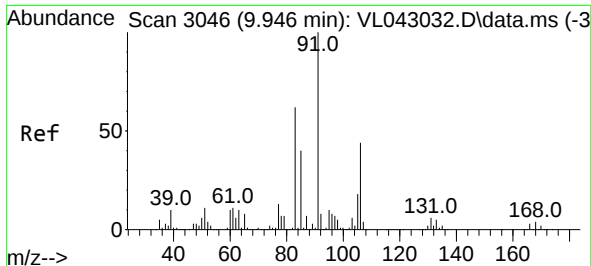
Tgt Ion:112 Resp: 1535  
Ion Ratio Lower Upper  
112 100  
77 79.7 53.2 79.8  
114 38.3 28.6 35.0#



#58  
Ethyl Benzene  
Concen: 0.042 ppbv  
RT: 9.516 min Scan# 2913  
Delta R.T. 0.178 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

Tgt Ion: 91 Resp: 2820  
Ion Ratio Lower Upper  
91 100  
106 28.7 24.1 36.1

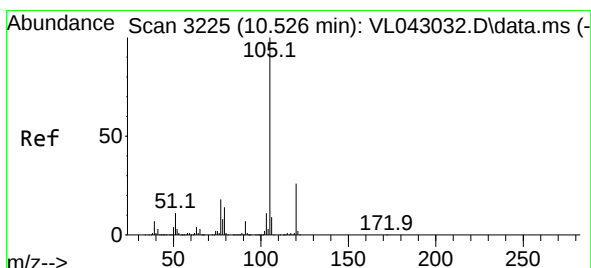
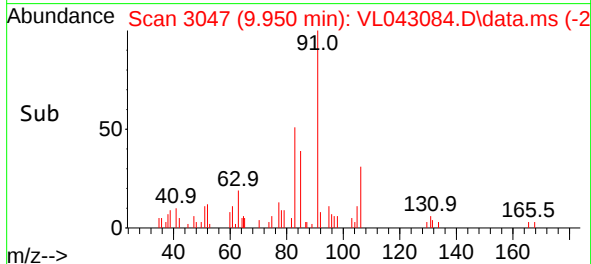
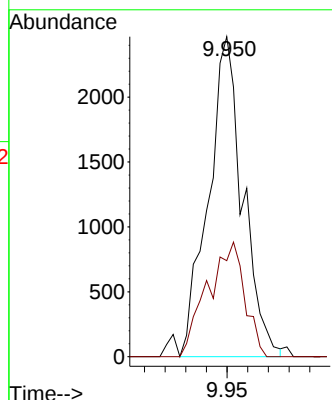
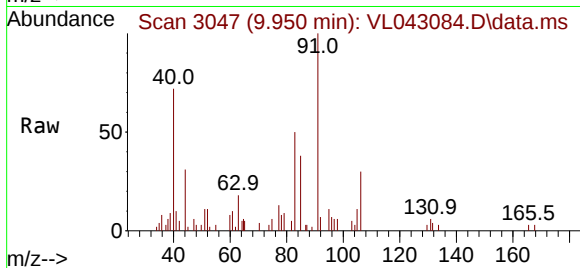




#60  
o-Xylene  
Concen: 0.050 ppbv  
RT: 9.950 min Scan# 3046  
Delta R.T. 0.003 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

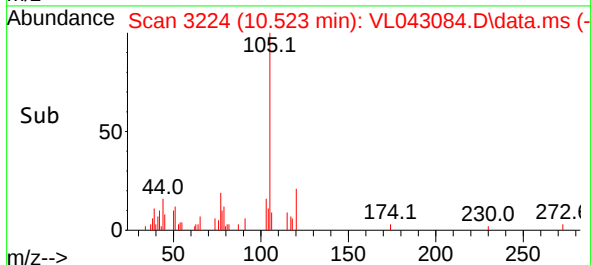
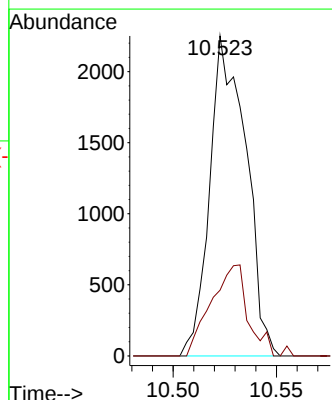
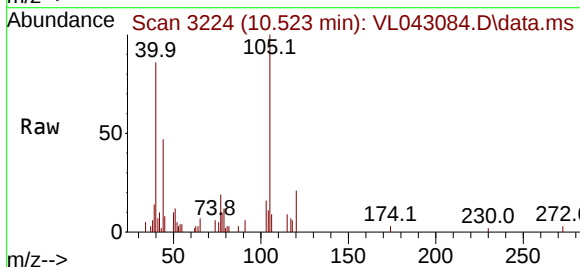
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

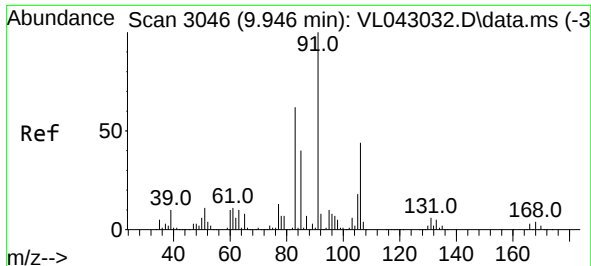
Tgt Ion: 91 Resp: 2855  
Ion Ratio Lower Upper  
91 100  
106 38.6 21.9 65.5



#62  
Isopropylbenzene  
Concen: 0.032 ppbv  
RT: 10.523 min Scan# 3224  
Delta R.T. -0.003 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

Tgt Ion:105 Resp: 2741  
Ion Ratio Lower Upper  
105 100  
120 29.5 20.6 31.0

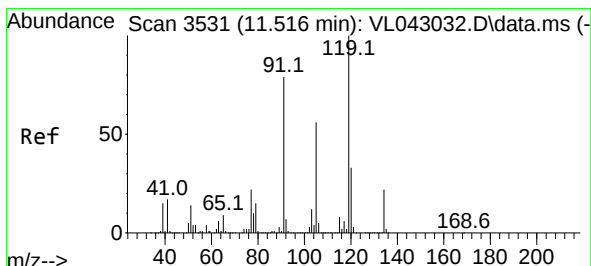
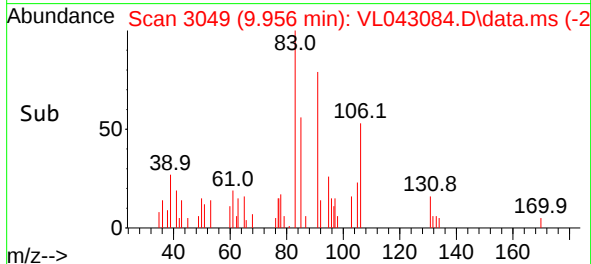
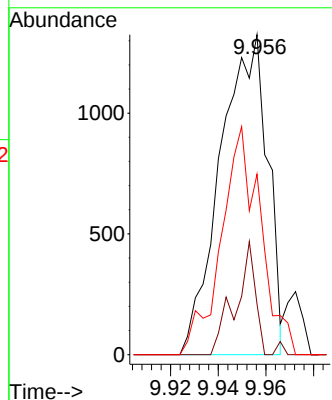
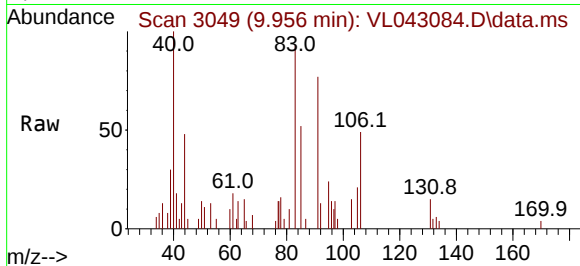




#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.045 ppbv  
RT: 9.956 min Scan# 3046  
Delta R.T. 0.010 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

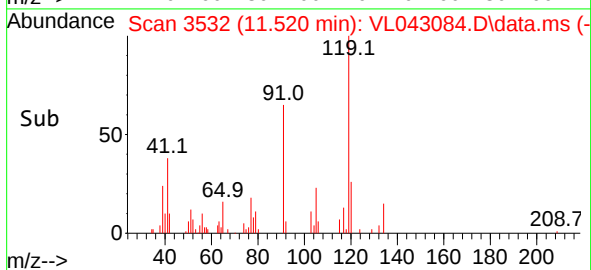
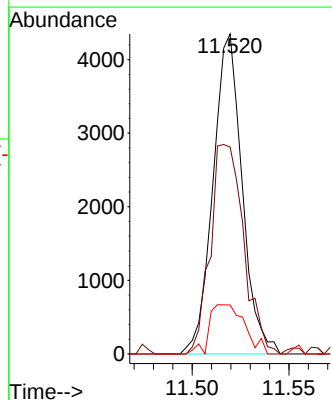
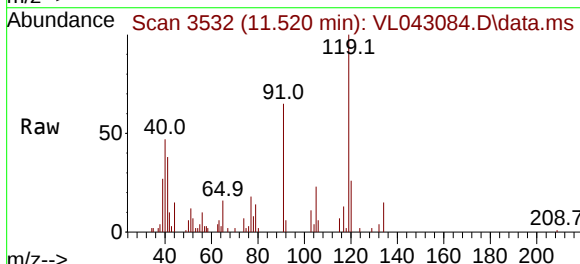
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

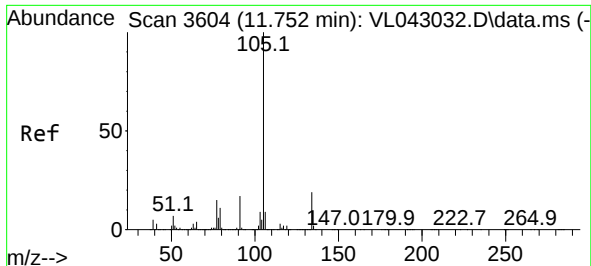
Tgt Ion: 83 Resp: 1817  
Ion Ratio Lower Upper  
83 100  
131 15.4 4.7 14.1#  
85 59.5 32.0 96.2



#65  
tert-Butylbenzene  
Concen: 0.059 ppbv  
RT: 11.520 min Scan# 3532  
Delta R.T. 0.003 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

Tgt Ion: 119 Resp: 4546  
Ion Ratio Lower Upper  
119 100  
91 77.3 63.1 94.7  
134 19.5 16.9 25.3

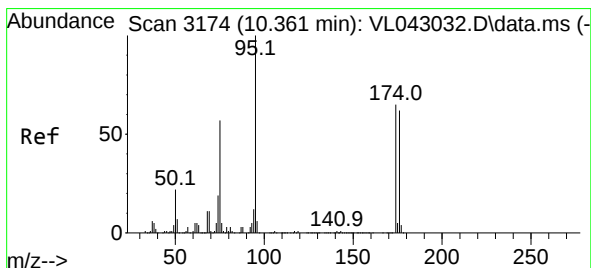
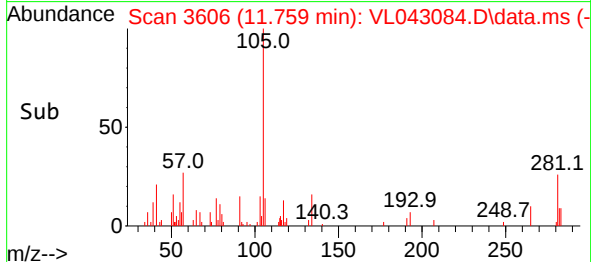
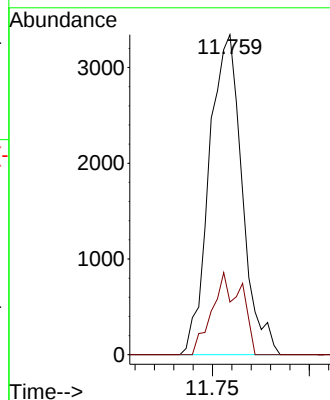
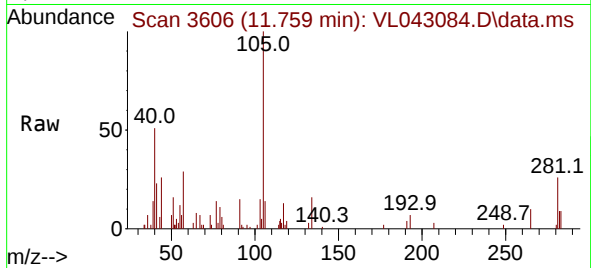




#67  
 sec-Butylbenzene  
 Concen: 0.037 ppbv  
 RT: 11.759 min Scan# 3175  
 Delta R.T. 0.007 min  
 Lab File: VL043084.D  
 Acq: 09 Oct 2025 12:44

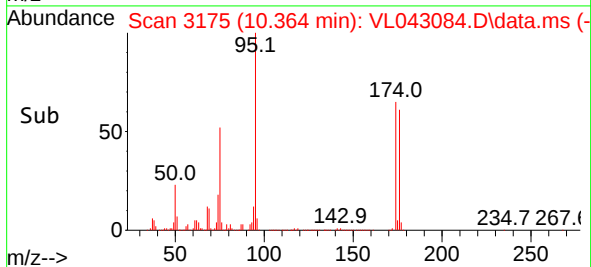
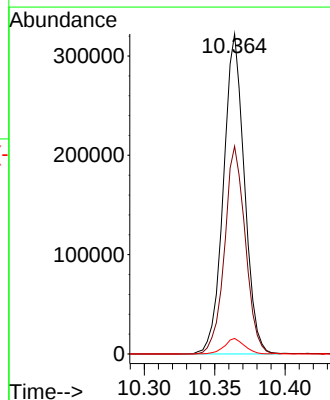
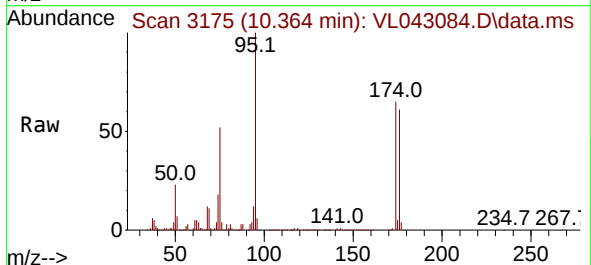
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1DUP

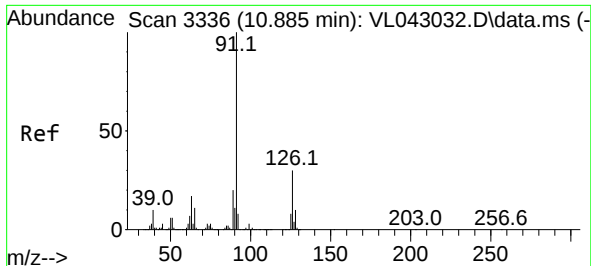
Tgt Ion:105 Resp: 3947  
 Ion Ratio Lower Upper  
 105 100  
 134 22.7 15.2 22.8



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.657 ppbv  
 RT: 10.364 min Scan# 3175  
 Delta R.T. 0.003 min  
 Lab File: VL043084.D  
 Acq: 09 Oct 2025 12:44

Tgt Ion: 95 Resp: 333701  
 Ion Ratio Lower Upper  
 95 100  
 174 64.8 52.3 78.5  
 175 4.7 3.8 5.8

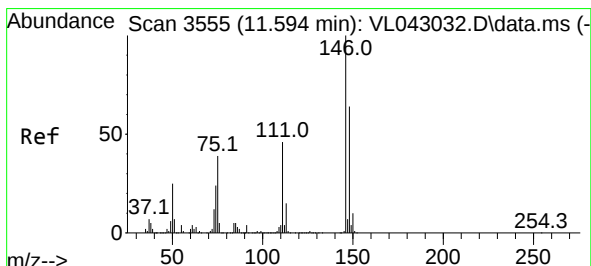
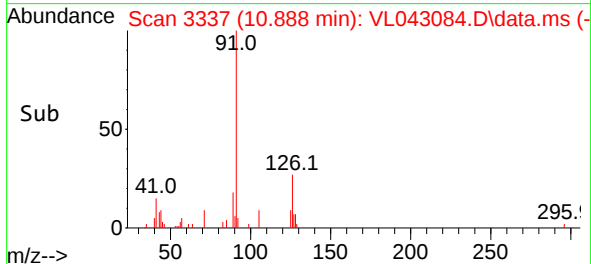
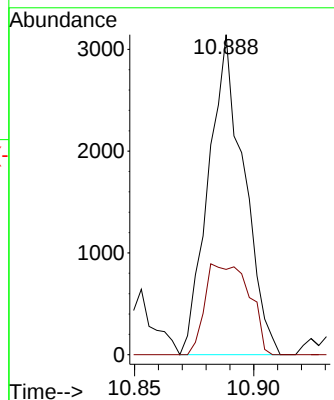
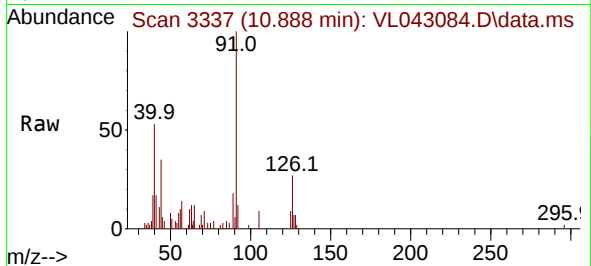




#71  
2-Chlorotoluene  
Concen: 0.052 ppbv  
RT: 10.888 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

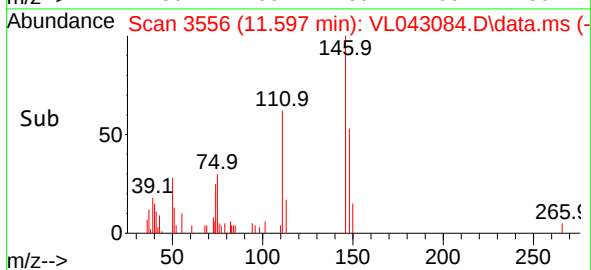
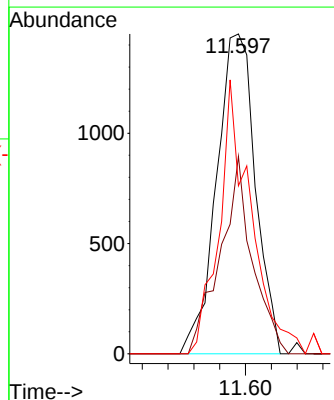
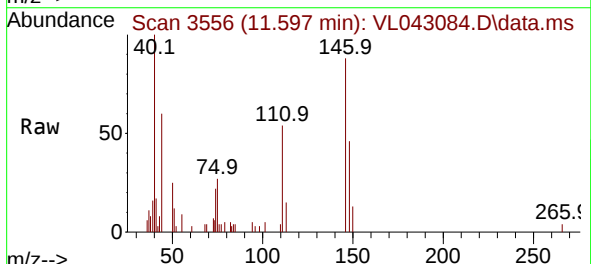
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

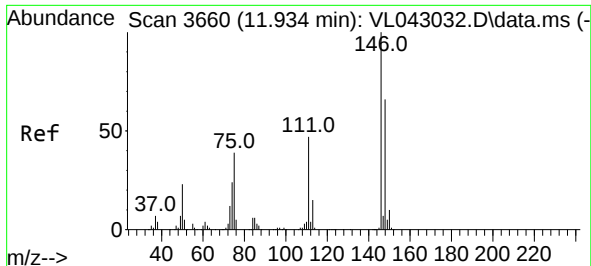
Tgt Ion: 91 Resp: 3254  
Ion Ratio Lower Upper  
91 100  
126 35.2 12.2 48.6



#75  
1,3-Dichlorobenzene  
Concen: 0.036 ppbv  
RT: 11.597 min Scan# 3556  
Delta R.T. 0.003 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

Tgt Ion: 146 Resp: 1519  
Ion Ratio Lower Upper  
146 100  
111 51.1 22.6 67.7  
148 70.0 31.9 95.7

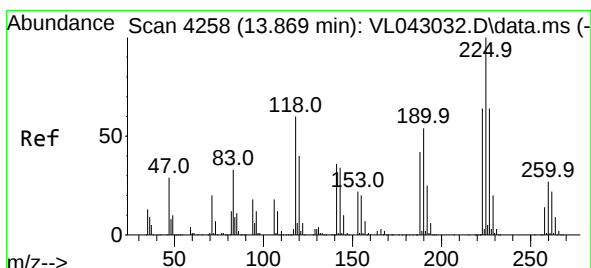
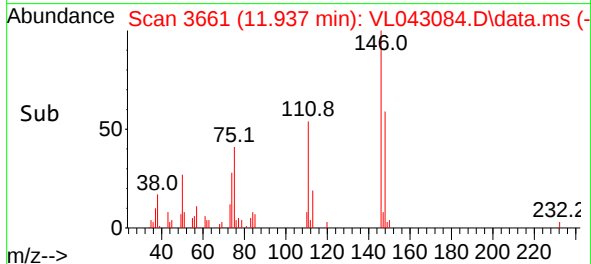
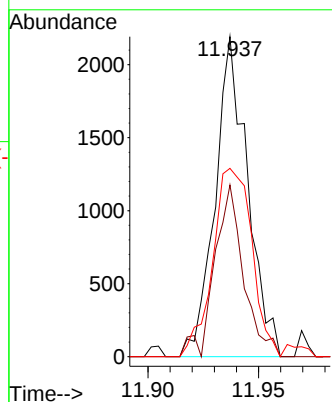
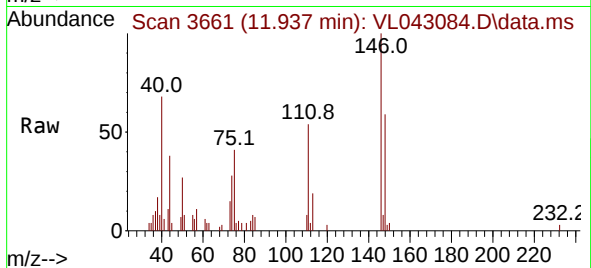




#77  
1,2-Dichlorobenzene  
Concen: 0.053 ppbv  
RT: 11.937 min Scan# 3661  
Delta R.T. 0.003 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

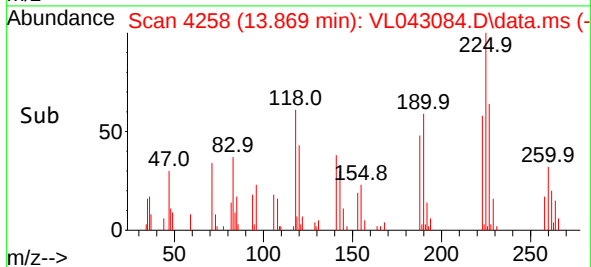
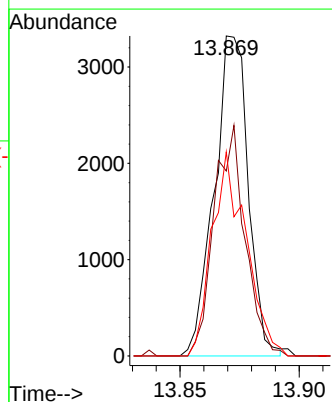
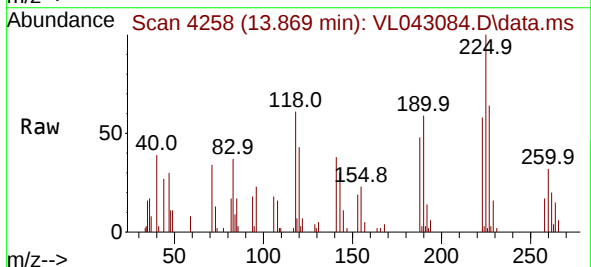
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ClientSampleId :  
IA1DUP

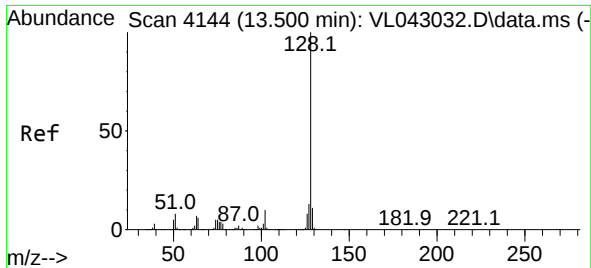
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 2244  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 48.1  | 23.2  | 69.5  |
| 148      | 73.0  | 31.9  | 95.7  |



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.111 ppbv  
RT: 13.869 min Scan# 4258  
Delta R.T. 0.000 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 3301  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 66.1  | 50.9  | 76.3  |
| 227      | 63.7  | 50.9  | 76.3  |

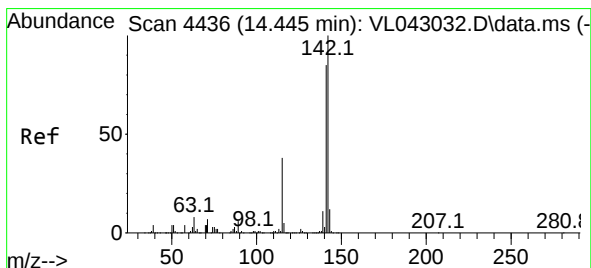
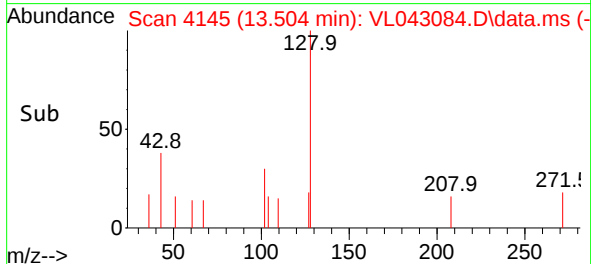
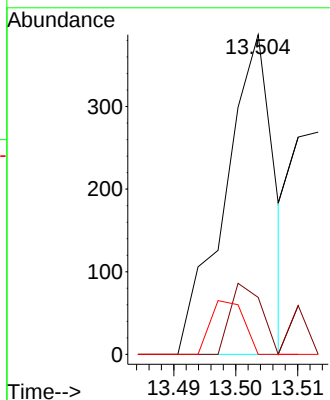
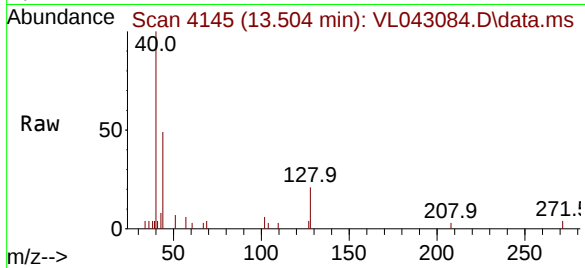




#79  
Naphthalene  
Concen: 0.238 ppbv  
RT: 13.504 min Scan# 4145  
Delta R.T. 0.004 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

Tgt Ion:128 Resp: 214  
Ion Ratio Lower Upper  
128 100  
127 17.8 10.6 16.0#  
129 0.0 8.8 13.2#



#80  
Naphthalene,2-methyl-  
Concen: 0.669 ppbv  
RT: 14.462 min Scan# 4441  
Delta R.T. 0.017 min  
Lab File: VL043084.D  
Acq: 09 Oct 2025 12:44

Tgt Ion:142 Resp: 185  
Ion Ratio Lower Upper  
142 100  
141 60.0 66.6 100.0#  
115 40.5 30.1 45.1

