

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041125\  
 Data File : VL042320.D  
 Acq On : 11 Apr 2025 15:01  
 Operator : SY/MD  
 Sample : Q1665-11  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B10-1-3242025

Quant Time: Apr 11 23:01:04 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Mar 28 02:00:52 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 183875   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.955 | 114  | 460651   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 381290   | 10.000 | ppbv  | 0.00     |

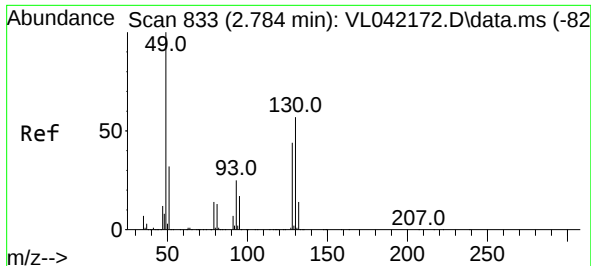
|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 314052   | 10.030   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.300% |

| Target Compounds                |        |     |         |          |        | Qvalue |
|---------------------------------|--------|-----|---------|----------|--------|--------|
| 2) Dichlorodifluoromethane      | 1.496  | 85  | 11636   | 0.429    | ppbv   | 90     |
| 3) Chlorodifluoromethane        | 1.466  | 51  | 68850   | 2.482    | ppbv # | 64     |
| 4) Chloromethane                | 1.531  | 50  | 6489    | 0.585    | ppbv # | 86     |
| 7) Chloroethane                 | 1.703  | 64  | 241     | 0.054    | ppbv # | 78     |
| 9) Propene                      | 1.884  | 41  | 70001   | 5.507    | ppbv   | 90     |
| 10) Heptane                     | 4.981  | 43  | 1831    | 0.054    | ppbv # | 73     |
| 11) Trichlorofluoromethane      | 1.877  | 101 | 5866    | 0.222    | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluoro... | 2.136  | 101 | 1596    | 0.074    | ppbv   | 91     |
| 13) Ethanol                     | 1.722  | 45  | 1300122 | 1081.877 | ppbv   | 88     |
| 15) Acetone                     | 1.832  | 43  | 2018088 | 78.476   | ppbv # | 79     |
| 16) 1,3-Butadiene               | 1.599  | 39  | 5944    | 0.473    | ppbv # | 38     |
| 17) tert-Butyl alcohol          | 1.887  | 59  | 28350   | 0.885    | ppbv   | 96     |
| 19) Isopropyl Alcohol           | 1.884  | 45  | 743440  | 51.238   | ppbv # | 5      |
| 20) Methylene Chloride          | 2.062  | 84  | 141997  | 14.826   | ppbv   | 96     |
| 21) Allyl Chloride              | 2.059  | 41  | 5466    | 0.301    | ppbv # | 21     |
| 23) Vinyl Acetate               | 2.470  | 43  | 9354    | 0.840    | ppbv # | 55     |
| 25) Ethyl Acetate               | 2.826  | 43  | 195625  | 2.931    | ppbv # | 85     |
| 26) Hexane                      | 2.826  | 57  | 208675  | 8.094    | ppbv # | 41     |
| 27) Carbon Disulfide            | 2.149  | 76  | 1070    | 0.039    | ppbv # | 1      |
| 29) Chloroform                  | 2.848  | 83  | 40045   | 1.061    | ppbv   | 96     |
| 31) cis-1,2-Dichloroethene      | 2.839  | 61  | 6478    | 0.248    | ppbv # | 25     |
| 34) 2-Butanone                  | 2.557  | 43  | 411404  | 12.316   | ppbv   | 98     |
| 36) Benzene                     | 3.654  | 78  | 21158   | 0.463    | ppbv   | 98     |
| 39) 1,2-Dichloropropane         | 3.955  | 63  | 115727  | 6.958    | ppbv # | 22     |
| 41) Tetrahydrofuran             | 3.065  | 42  | 2565    | 0.133    | ppbv # | 59     |
| 53) Toluene                     | 6.930  | 91  | 14263   | 0.263    | ppbv # | 59     |
| 58) Ethyl Benzene               | 9.552  | 91  | 2141    | 0.032    | ppbv   | 95     |
| 59) m/p-Xylene                  | 9.552  | 91  | 2141    | 0.040    | ppbv # | 31     |
| 60) o-Xylene                    | 9.966  | 91  | 7975    | 0.147    | ppbv   | 99     |
| 61) Styrene                     | 9.869  | 104 | 1381    | 0.051    | ppbv # | 86     |
| 64) n-propylbenzene             | 10.985 | 120 | 1262    | 0.060    | ppbv   | 77     |
| 65) tert-Butylbenzene           | 11.539 | 119 | 5633    | 0.075    | ppbv # | 71     |
| 66) Benzyl Chloride             | 11.532 | 91  | 5835    | 0.733    | ppbv # | 66     |
| 69) p-Isopropyltoluene          | 11.927 | 119 | 10393   | 0.116    | ppbv # | 90     |
| 72) 4-Ethyltoluene              | 11.125 | 105 | 7507    | 0.111    | ppbv # | 64     |
| 73) 1,3,5-Trimethylbenzene      | 11.205 | 105 | 9483    | 0.161    | ppbv   | 96     |
| 74) 1,2,4-Trimethylbenzene      | 11.536 | 105 | 38801   | 0.571    | ppbv # | 68     |
| 79) Naphthalene                 | 13.516 | 128 | 2510    | 0.034    | ppbv # | 88     |

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

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QLast Update : Fri Mar 28 02:00:52 2025  
Response via : Initial Calibration

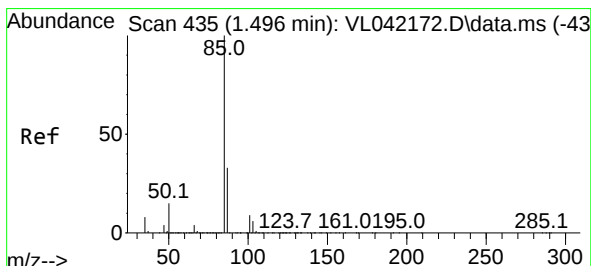
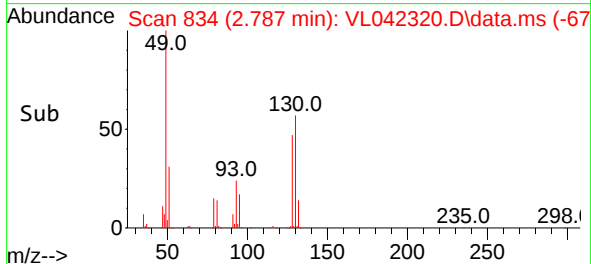
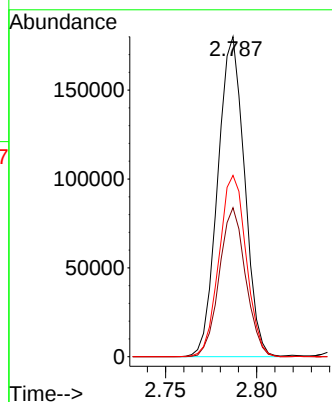
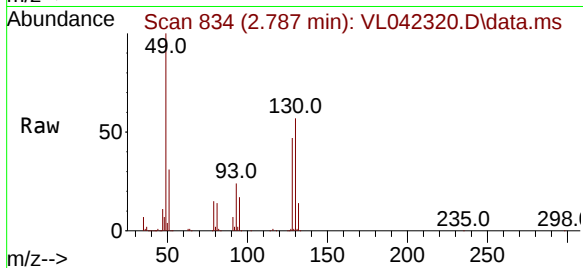




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

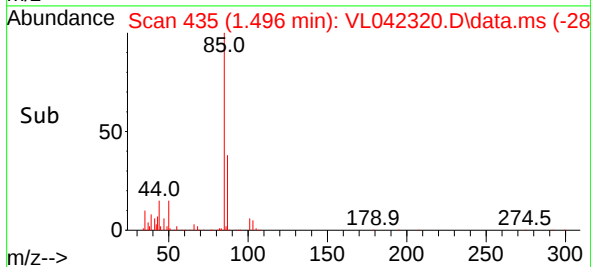
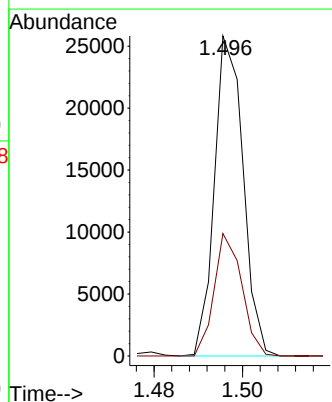
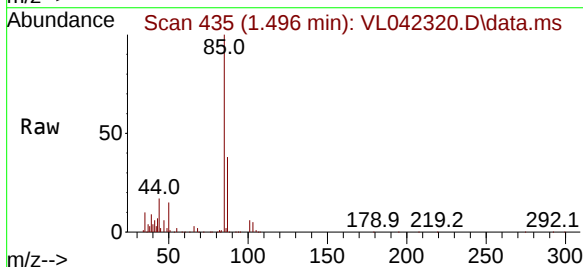
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B10-1-3242025

Tgt Ion: 49 Resp: 183875  
Ion Ratio Lower Upper  
49 100  
128 45.7 22.9 68.5  
130 57.5 28.8 86.4



#2  
Dichlorodifluoromethane  
Concen: 0.429 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.000 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

Tgt Ion: 85 Resp: 11636  
Ion Ratio Lower Upper  
85 100  
87 38.2 26.1 39.1

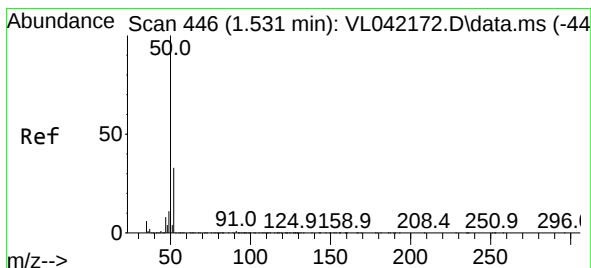
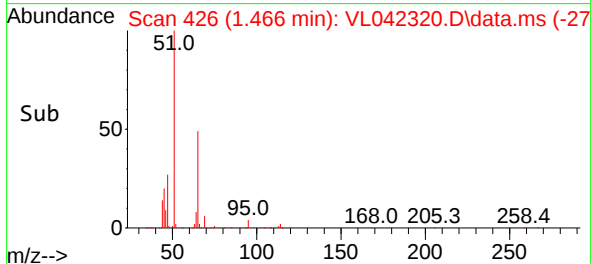
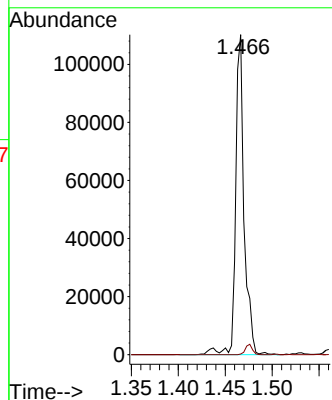
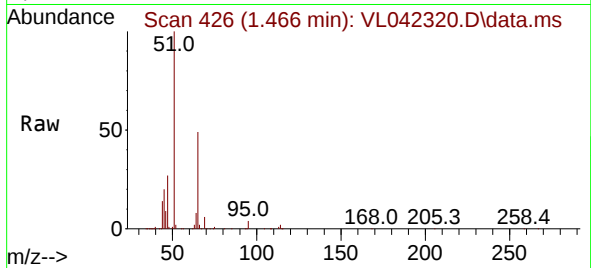




#3  
Chlorodifluoromethane  
Concen: 2.482 ppbv  
RT: 1.466 min Scan# 41  
Delta R.T. -0.007 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

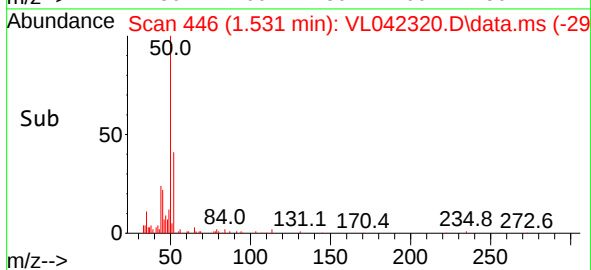
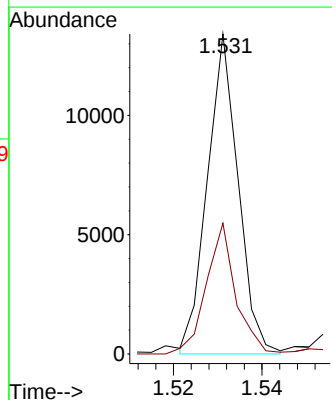
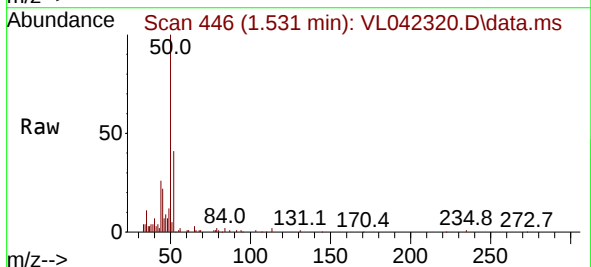
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B10-1-3242025

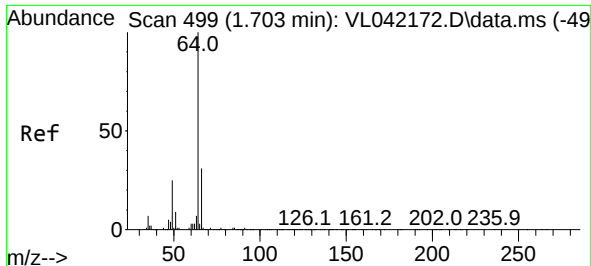
Tgt Ion: 51 Resp: 68850  
Ion Ratio Lower Upper  
51 100  
67 2.7 15.0 22.6#



#4  
Chloromethane  
Concen: 0.585 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. -0.000 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

Tgt Ion: 50 Resp: 6489  
Ion Ratio Lower Upper  
50 100  
52 40.7 26.1 39.1#

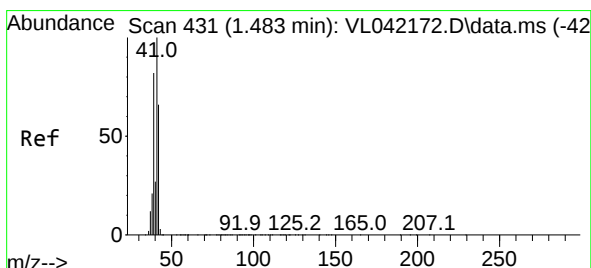
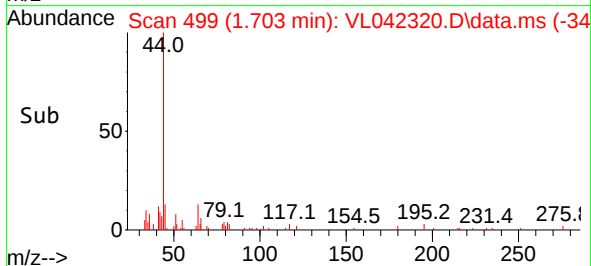
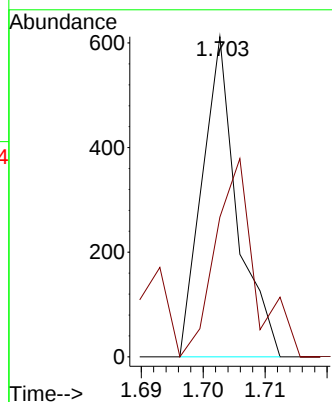
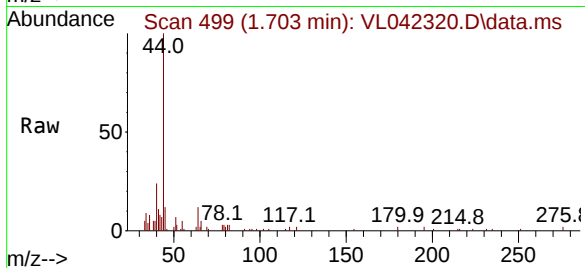




#7  
Chloroethane  
Concen: 0.054 ppbv  
RT: 1.703 min Scan# 499  
Delta R.T. -0.000 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

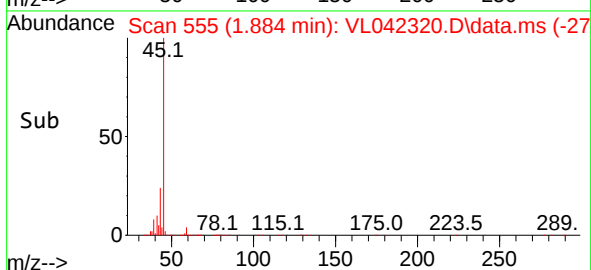
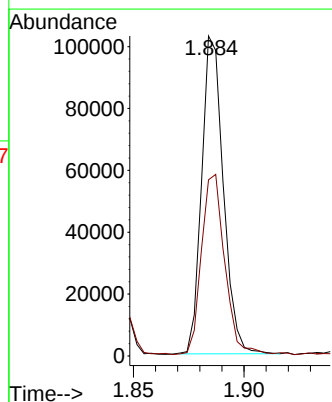
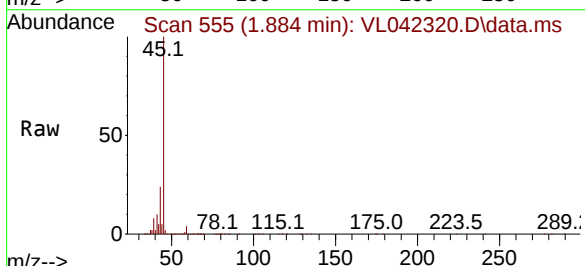
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B10-1-3242025

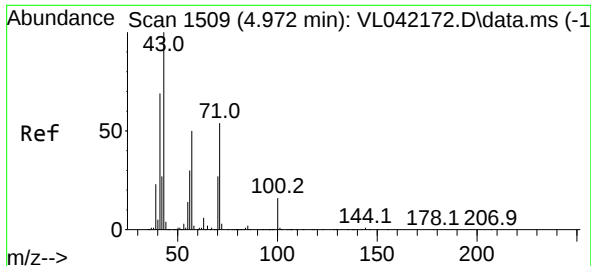
Tgt Ion: 64 Resp: 241  
Ion Ratio Lower Upper  
64 100  
66 43.6 25.2 37.8#



#9  
Propene  
Concen: 5.507 ppbv  
RT: 1.884 min Scan# 555  
Delta R.T. 0.401 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

Tgt Ion: 41 Resp: 70001  
Ion Ratio Lower Upper  
41 100  
42 61.0 55.4 83.2

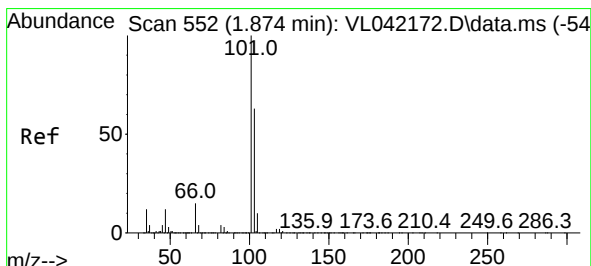
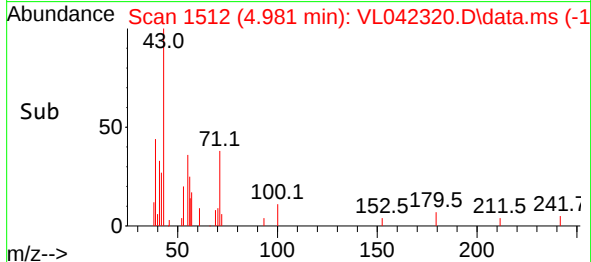
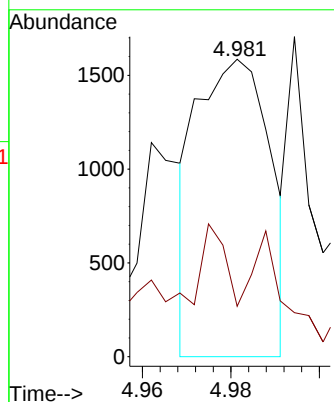
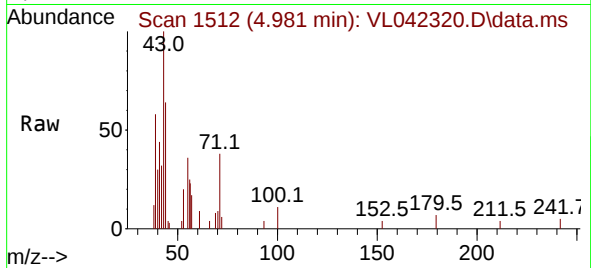




#10  
 Heptane  
 Concen: 0.054 ppbv  
 RT: 4.981 min Scan# 11  
 Delta R.T. 0.010 min  
 Lab File: VL042320.D  
 Acq: 11 Apr 2025 15:01

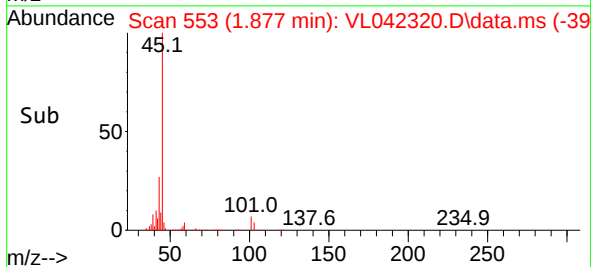
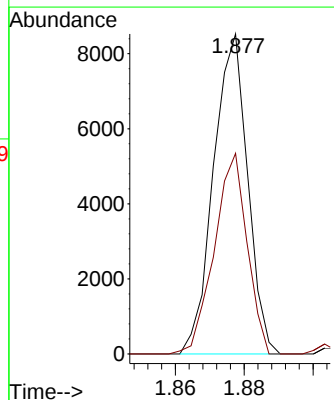
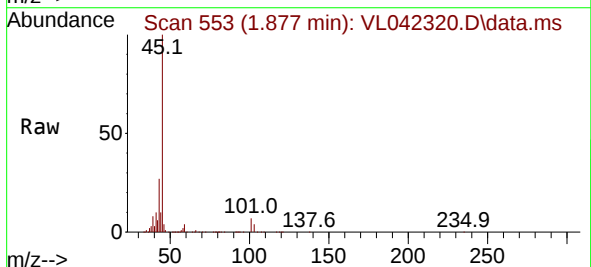
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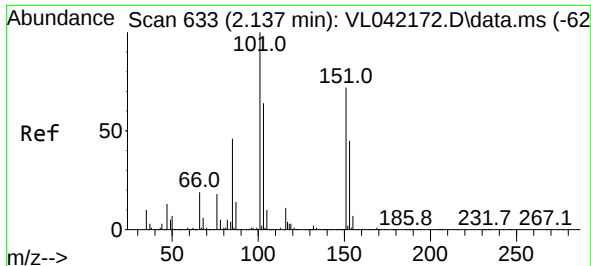
Tgt Ion: 43 Resp: 1831  
 Ion Ratio Lower Upper  
 43 100  
 57 67.6 39.4 59.2#



#11  
 Trichlorofluoromethane  
 Concen: 0.222 ppbv  
 RT: 1.877 min Scan# 553  
 Delta R.T. 0.003 min  
 Lab File: VL042320.D  
 Acq: 11 Apr 2025 15:01

Tgt Ion: 101 Resp: 5866  
 Ion Ratio Lower Upper  
 101 100  
 103 62.7 50.2 75.2

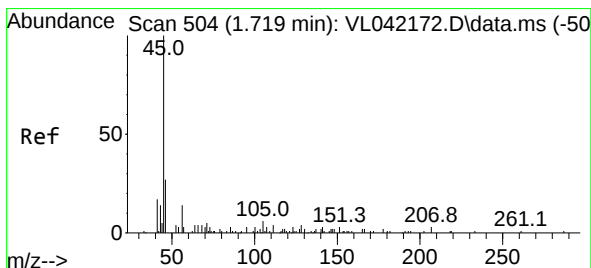
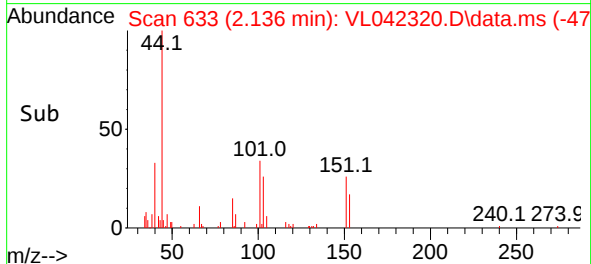
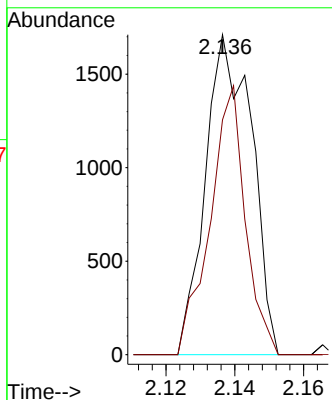
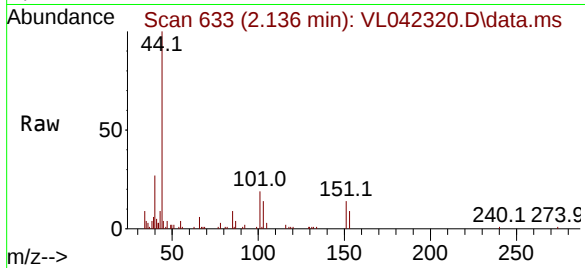




#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.074 ppbv  
 RT: 2.136 min Scan# 611  
 Delta R.T. -0.000 min  
 Lab File: VL042320.D  
 Acq: 11 Apr 2025 15:01

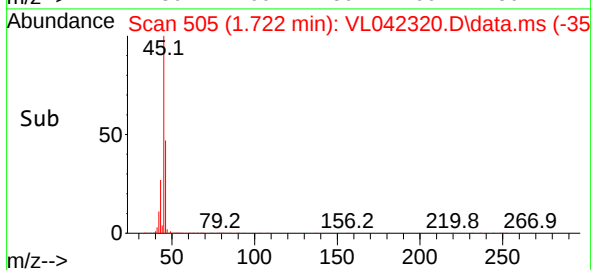
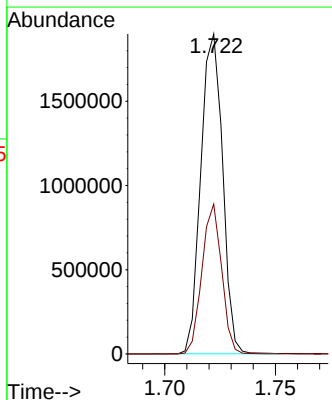
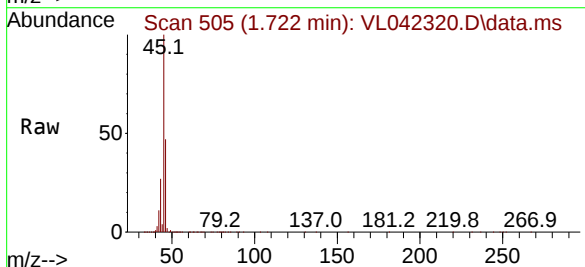
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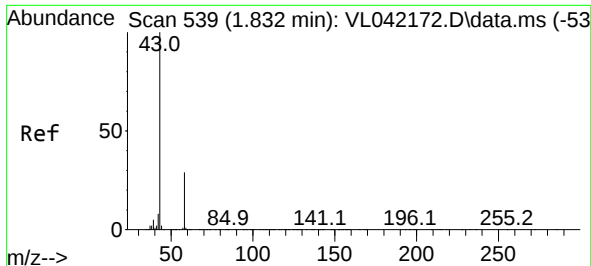
Tgt Ion:101 Resp: 1596  
 Ion Ratio Lower Upper  
 101 100  
 151 64.2 57.1 85.7



#13  
 Ethanol  
 Concen: 1081.877 ppbv  
 RT: 1.722 min Scan# 505  
 Delta R.T. 0.003 min  
 Lab File: VL042320.D  
 Acq: 11 Apr 2025 15:01

Tgt Ion: 45 Resp: 1300122  
 Ion Ratio Lower Upper  
 45 100  
 46 42.5 20.2 80.8

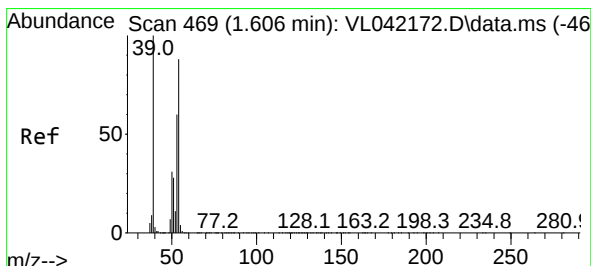
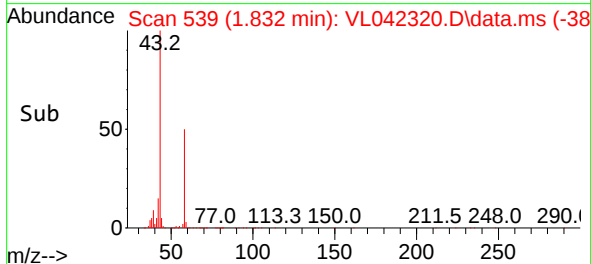
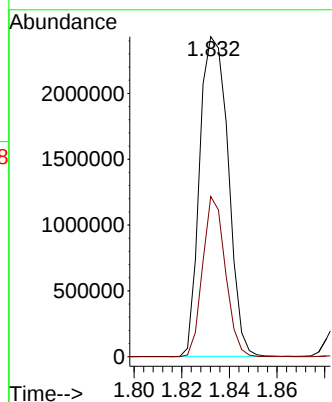
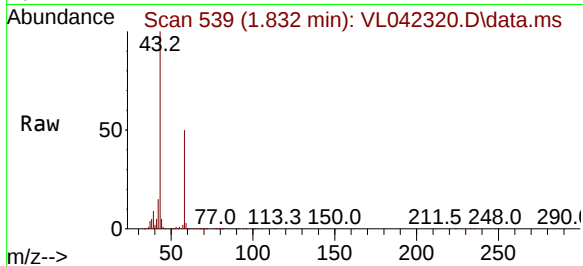




#15  
Acetone  
Concen: 78.476 ppbv  
RT: 1.832 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

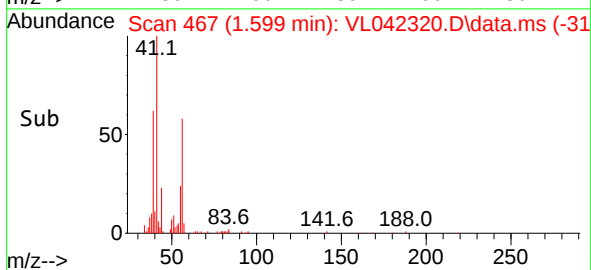
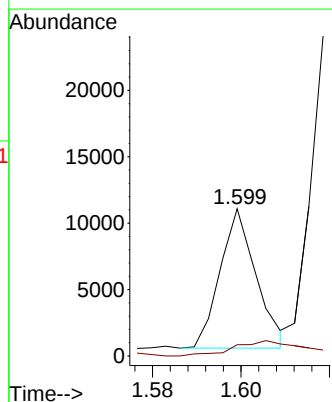
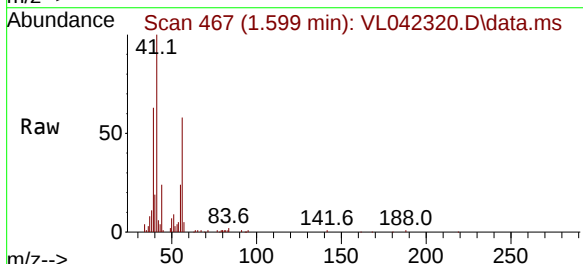
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B10-1-3242025

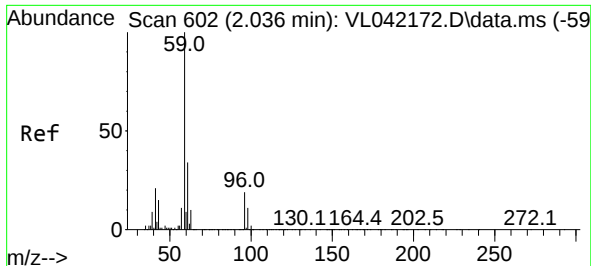
Tgt Ion: 43 Resp: 2018088  
Ion Ratio Lower Upper  
43 100  
58 40.0 23.2 34.8#



#16  
1,3-Butadiene  
Concen: 0.473 ppbv  
RT: 1.599 min Scan# 467  
Delta R.T. -0.007 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

Tgt Ion: 39 Resp: 5944  
Ion Ratio Lower Upper  
39 100  
54 22.6 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.885 ppbv

RT: 1.887 min Scan# 51

Delta R.T. -0.149 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

Instrument :

MSVOA\_L

ClientSampleId :

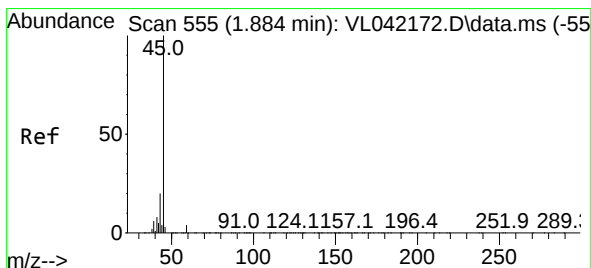
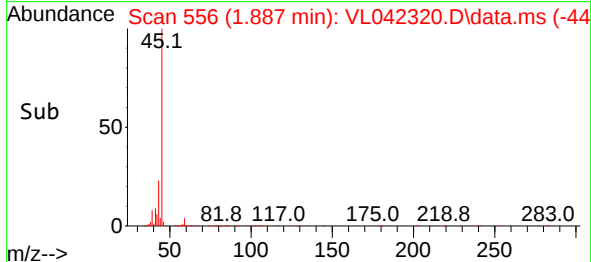
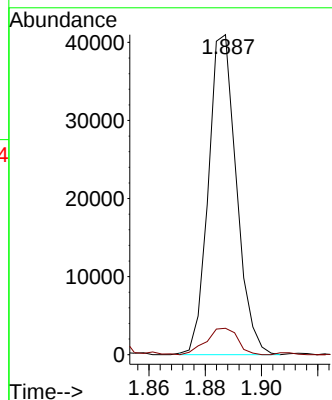
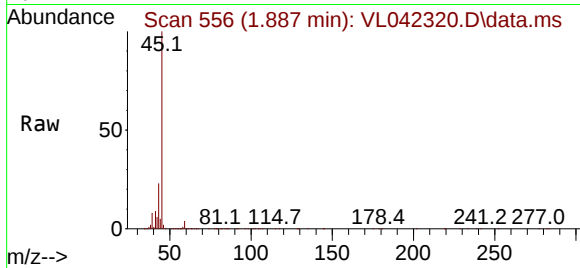
IA-B10-1-3242025

Tgt Ion: 59 Resp: 28350

Ion Ratio Lower Upper

59 100

57 9.6 8.9 13.3



#19

Isopropyl Alcohol

Concen: 51.238 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.000 min

Lab File: VL042320.D

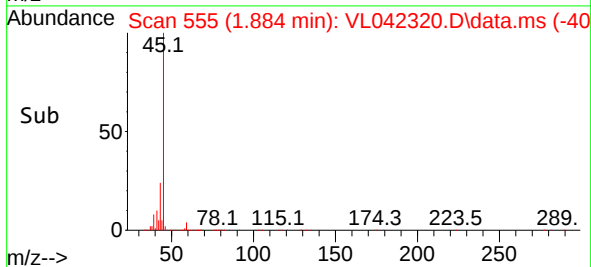
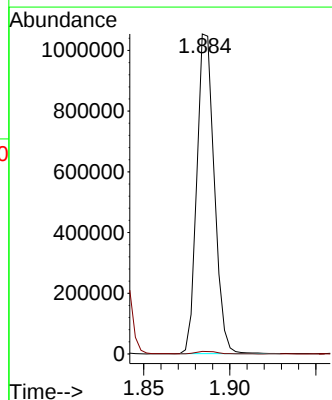
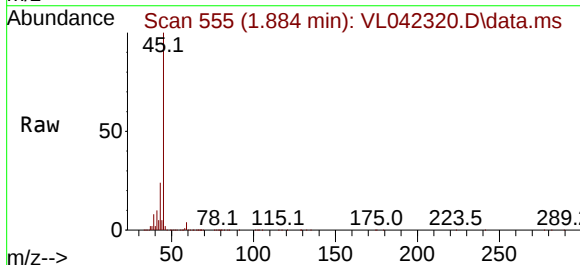
Acq: 11 Apr 2025 15:01

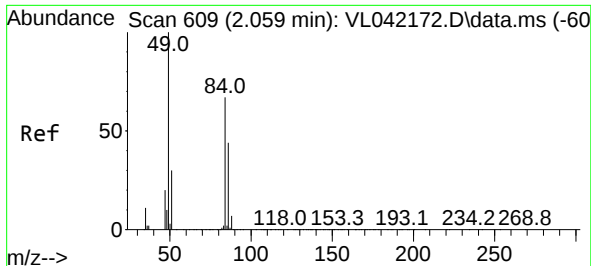
Tgt Ion: 45 Resp: 743440

Ion Ratio Lower Upper

45 100

58 108.7 36.9 55.3#



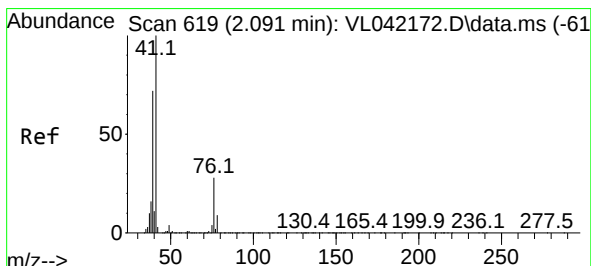
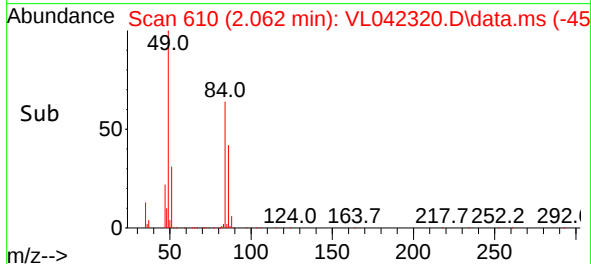
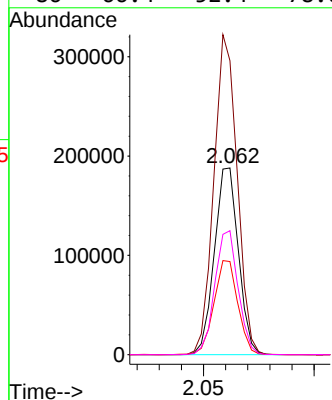
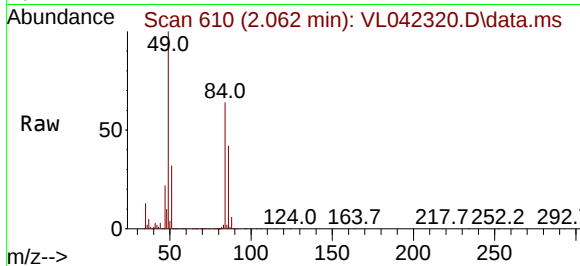


#20  
Methylene Chloride  
Concen: 14.826 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.003 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B10-1-3242025

Tgt Ion: 84 Resp: 141997

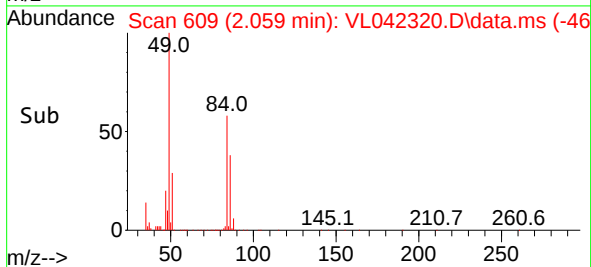
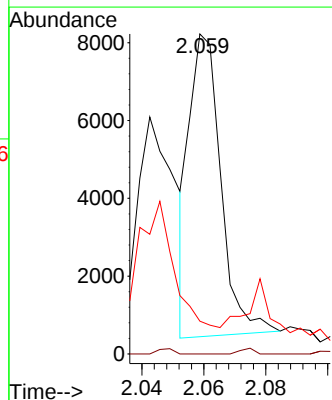
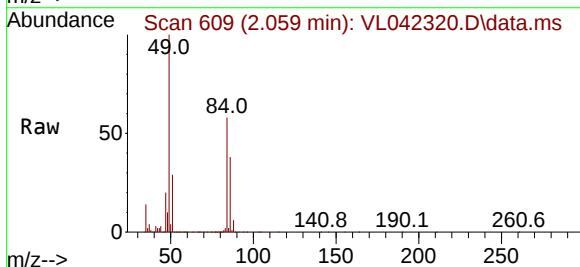
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 157.4 | 120.2 | 180.4 |
| 51  | 49.9  | 37.4  | 56.0  |
| 86  | 66.4  | 52.4  | 78.6  |

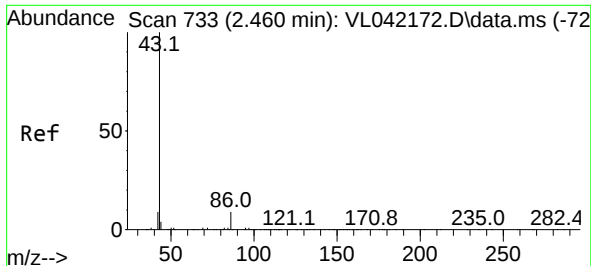


#21  
Allyl Chloride  
Concen: 0.301 ppbv  
RT: 2.059 min Scan# 609  
Delta R.T. -0.033 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

Tgt Ion: 41 Resp: 5466

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 76  | 0.0   | 24.1  | 36.1# |
| 39  | 0.0   | 61.1  | 91.7# |

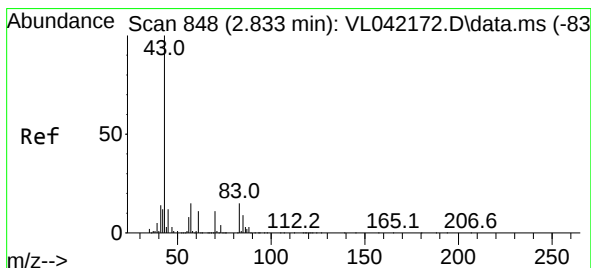
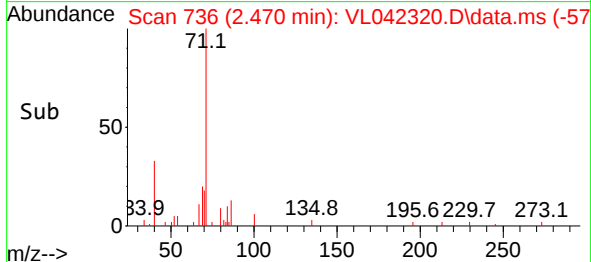
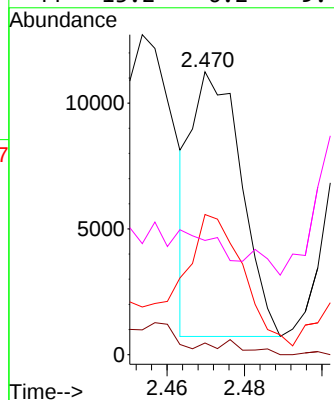
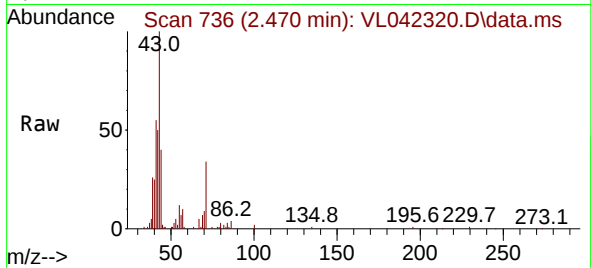




#23  
Vinyl Acetate  
Concen: 0.840 ppbv  
RT: 2.470 min Scan# 71  
Delta R.T. 0.010 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

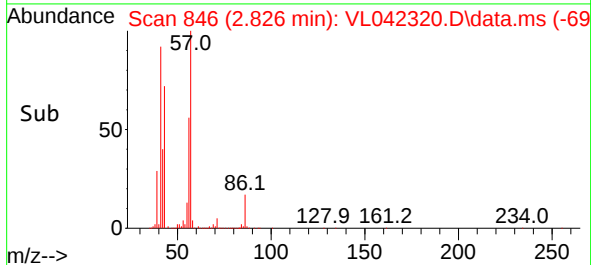
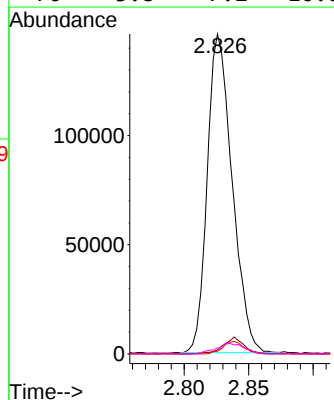
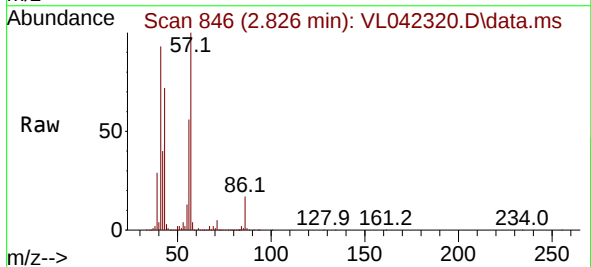
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B10-1-3242025

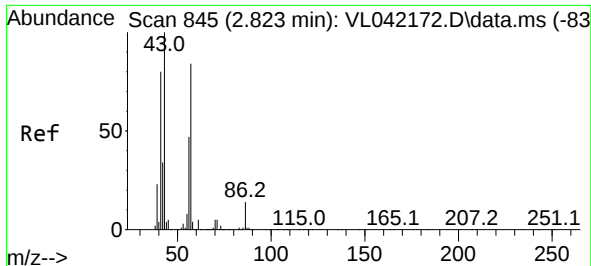
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 9354  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 4.4   | 5.5   | 8.3#  |
| 42       | 45.5  | 8.6   | 13.0# |
| 44       | 13.2  | 6.2   | 9.4#  |



#25  
Ethyl Acetate  
Concen: 2.931 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. -0.007 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

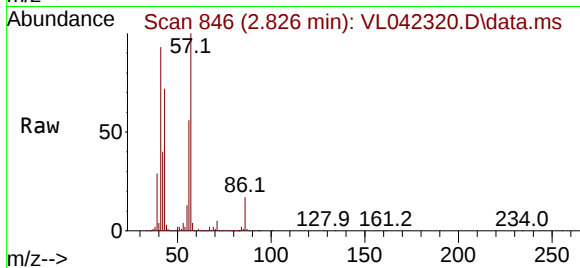
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 195625 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 4.7   | 8.2   | 12.2#  |
| 61       | 3.3   | 7.3   | 10.9#  |
| 70       | 3.8   | 7.2   | 10.8#  |



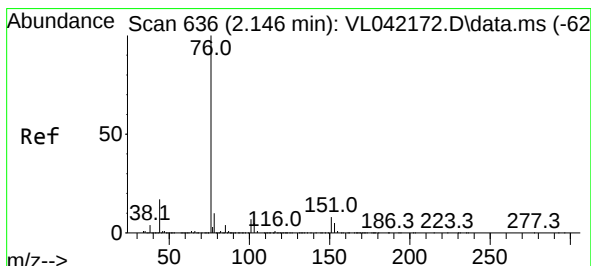
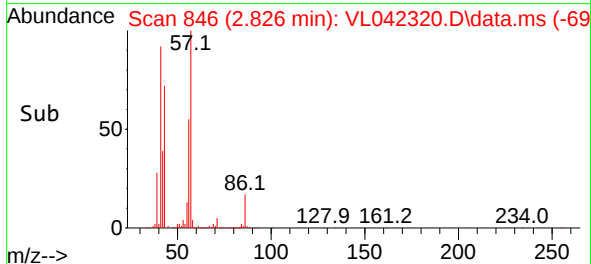
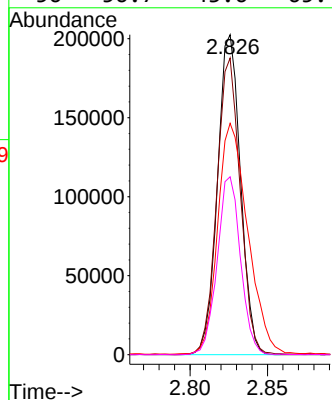


#26  
Hexane  
Concen: 8.094 ppbv  
RT: 2.826 min Scan# 845  
Delta R.T. 0.003 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B10-1-3242025

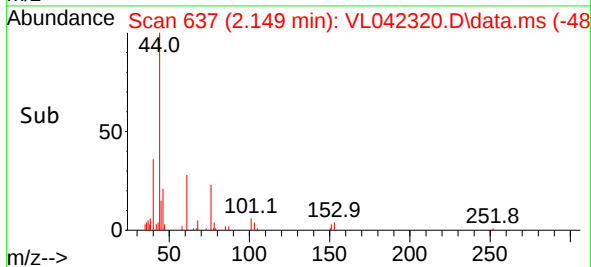
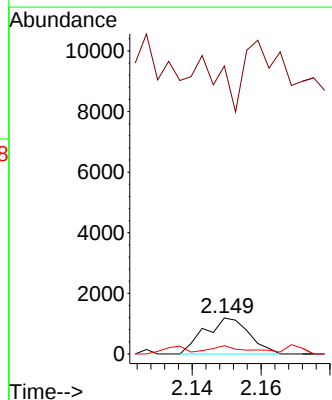
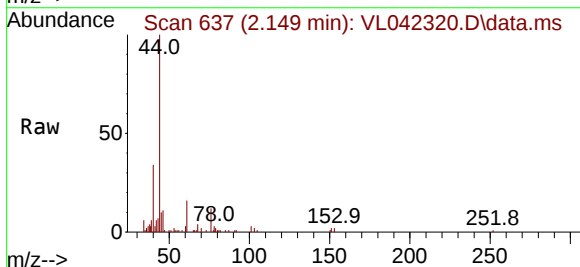


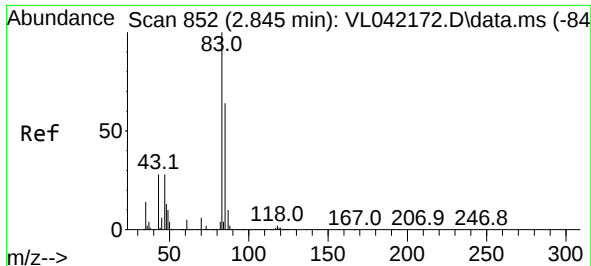
Tgt Ion: 57 Resp: 208675  
Ion Ratio Lower Upper  
57 100  
41 94.9 76.6 114.8  
43 94.7 207.8 311.8#  
56 56.7 43.6 65.4



#27  
Carbon Disulfide  
Concen: 0.039 ppbv  
RT: 2.149 min Scan# 637  
Delta R.T. 0.003 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

Tgt Ion: 76 Resp: 1070  
Ion Ratio Lower Upper  
76 100  
44 350.6 14.7 22.1#  
78 31.0 9.3 13.9#





#29

Chloroform

Concen: 1.061 ppbv

RT: 2.848 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

Instrument :

MSVOA\_L

ClientSampleId :

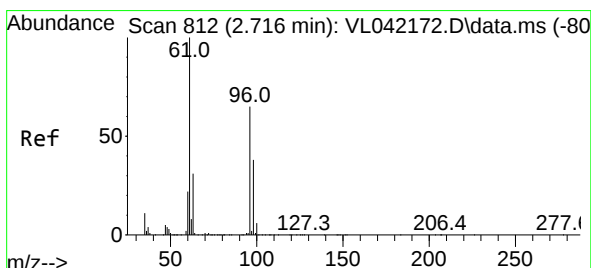
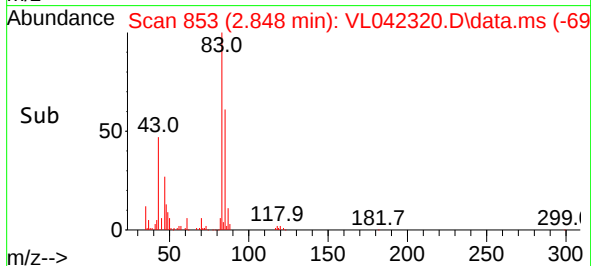
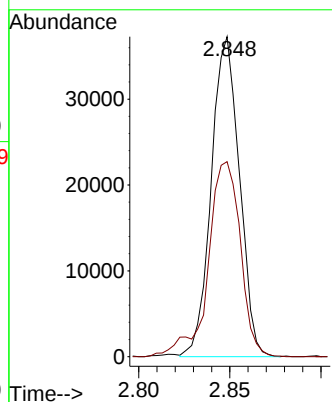
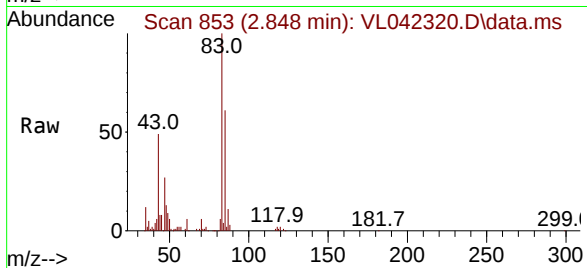
IA-B10-1-3242025

Tgt Ion: 83 Resp: 40045

Ion Ratio Lower Upper

83 100

85 60.9 51.4 77.2



#31

cis-1,2-Dichloroethene

Concen: 0.248 ppbv

RT: 2.839 min Scan# 850

Delta R.T. 0.123 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

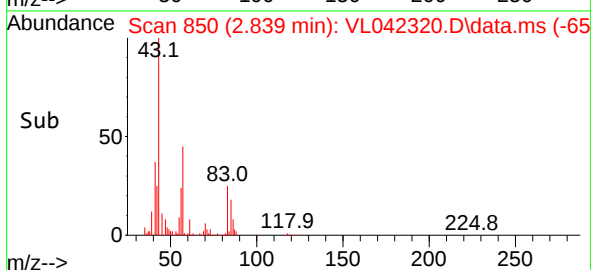
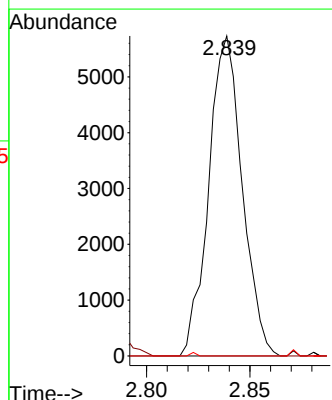
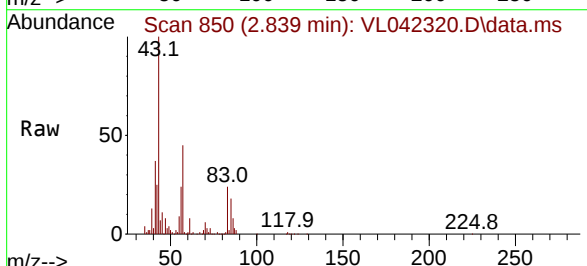
Tgt Ion: 61 Resp: 6478

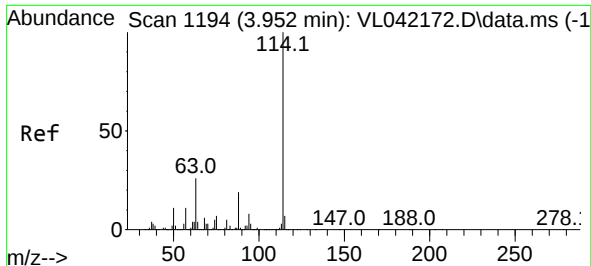
Ion Ratio Lower Upper

61 100

96 0.0 51.8 77.8#

98 0.0 30.6 46.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

Instrument :

MSVOA\_L

ClientSampleId :

IA-B10-1-3242025

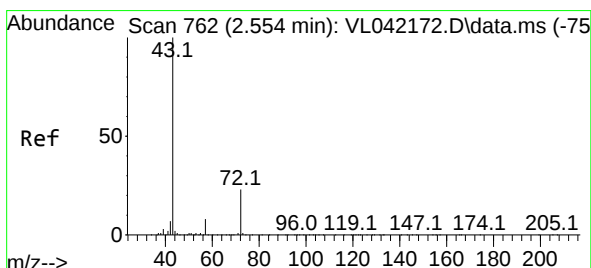
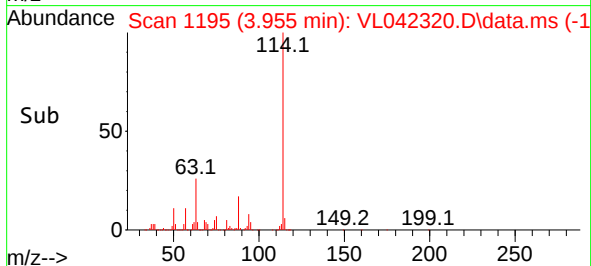
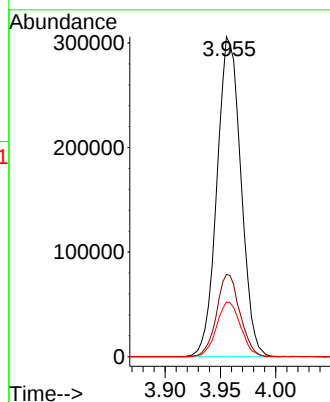
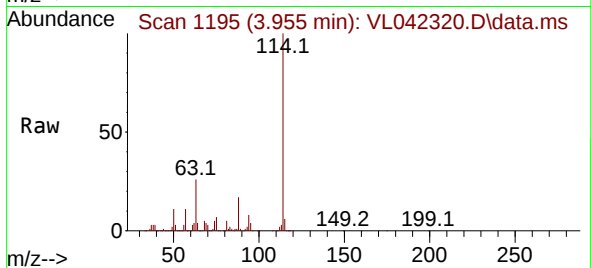
Tgt Ion:114 Resp: 460651

Ion Ratio Lower Upper

114 100

63 25.2 20.7 31.1

88 17.2 15.0 22.4



#34

2-Butanone

Concen: 12.316 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042320.D

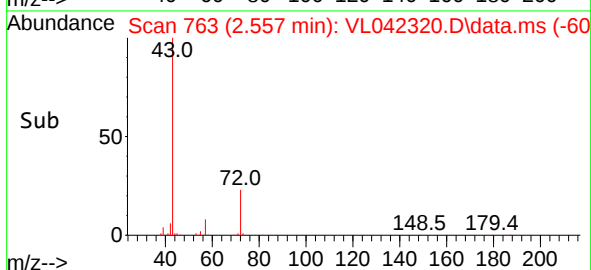
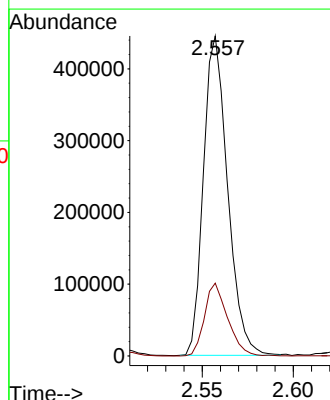
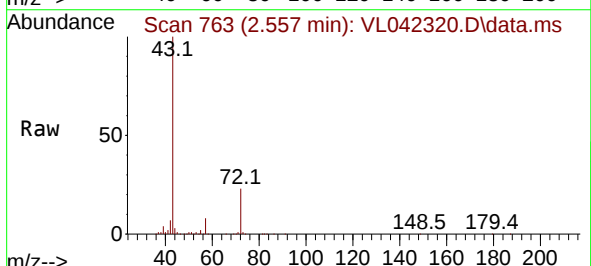
Acq: 11 Apr 2025 15:01

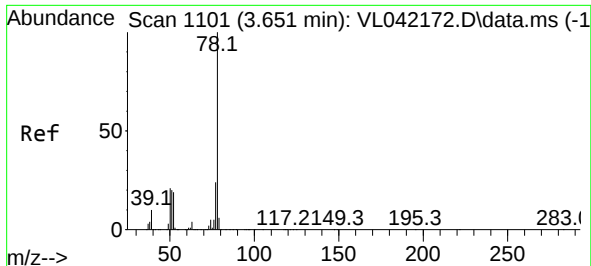
Tgt Ion: 43 Resp: 411404

Ion Ratio Lower Upper

43 100

72 21.9 18.2 27.2

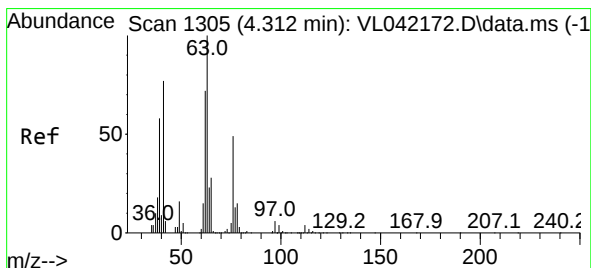
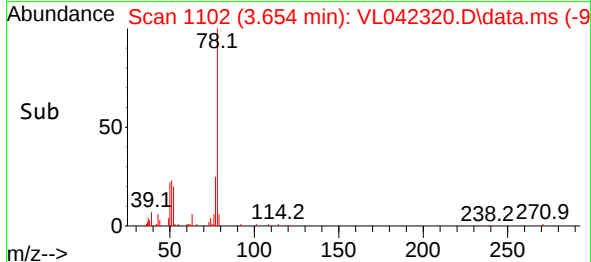
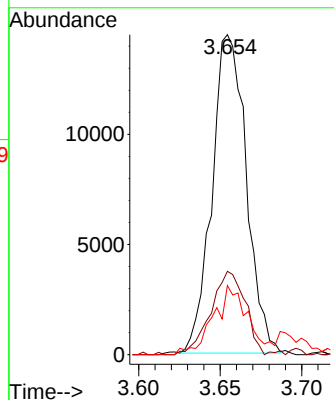
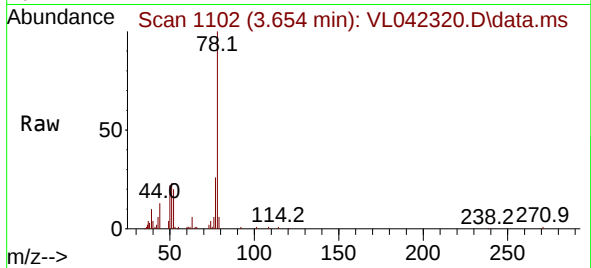




#36  
Benzene  
Concen: 0.463 ppbv  
RT: 3.654 min Scan# 1101  
Delta R.T. 0.003 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

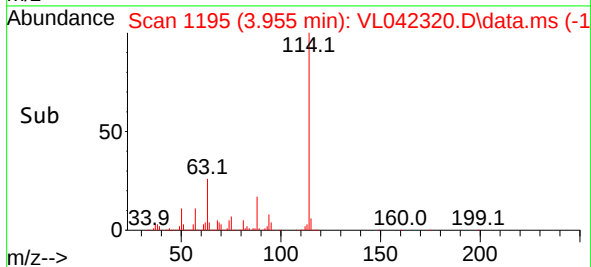
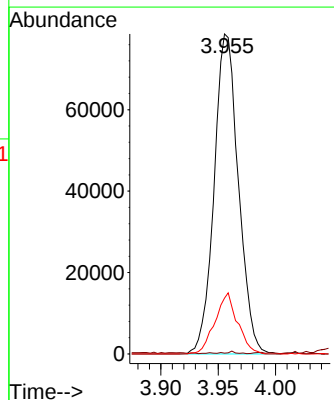
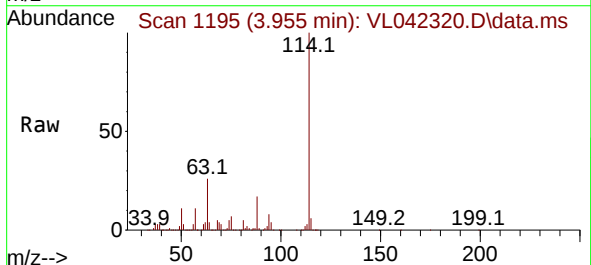
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B10-1-3242025

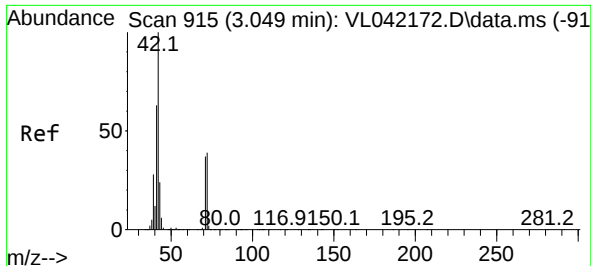
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 78    | Resp: | 21158 |
| Ion      | Ratio | Lower | Upper |
| 78       | 100   |       |       |
| 77       | 25.2  | 19.1  | 28.7  |
| 50       | 19.8  | 16.6  | 24.8  |



#39  
1,2-Dichloropropane  
Concen: 6.958 ppbv  
RT: 3.955 min Scan# 1195  
Delta R.T. -0.356 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 115727 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 41       | 0.2   | 61.7  | 92.5#  |
| 62       | 17.4  | 57.6  | 86.4#  |

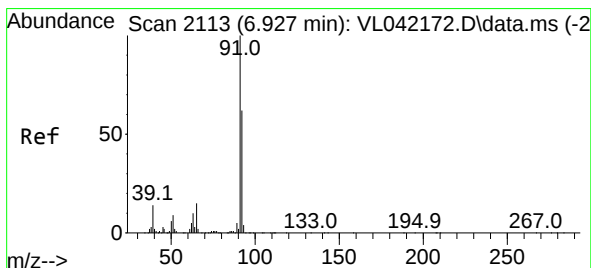
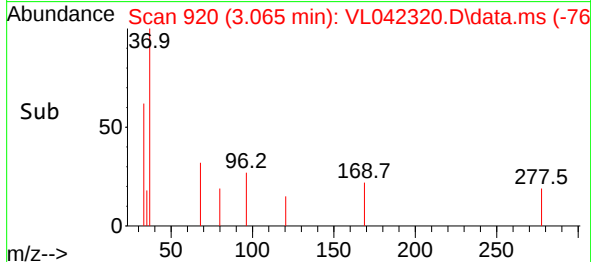
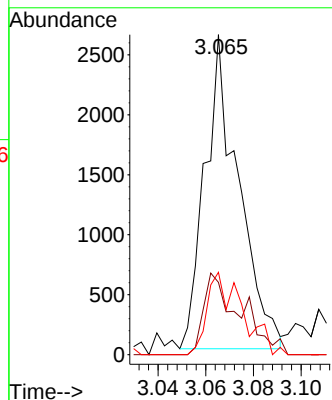
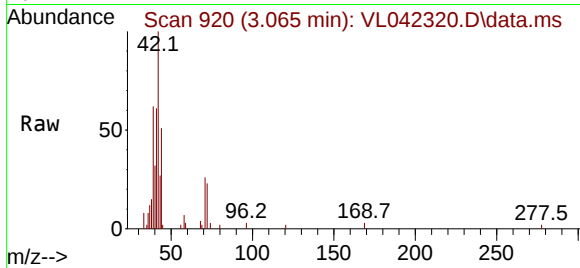




#41  
Tetrahydrofuran  
Concen: 0.133 ppbv  
RT: 3.065 min Scan# 915  
Delta R.T. 0.016 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

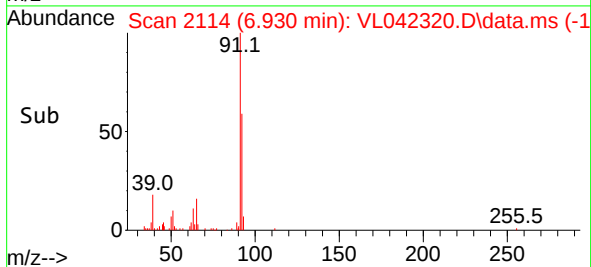
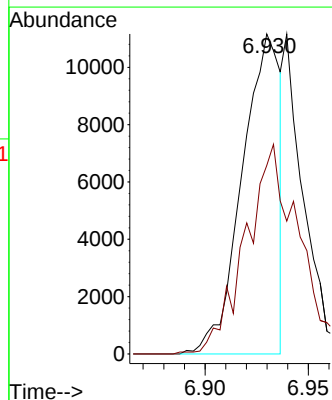
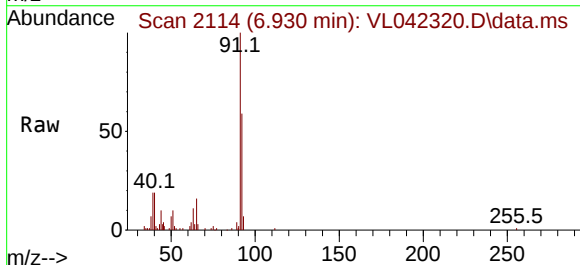
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B10-1-3242025

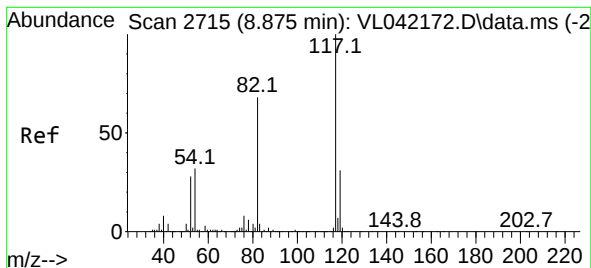
Tgt Ion: 42 Resp: 2565  
Ion Ratio Lower Upper  
42 100  
72 0.0 31.4 47.0#  
71 27.4 30.2 45.4#



#53  
Toluene  
Concen: 0.263 ppbv  
RT: 6.930 min Scan# 2114  
Delta R.T. 0.003 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

Tgt Ion: 91 Resp: 14263  
Ion Ratio Lower Upper  
91 100  
92 91.7 48.4 72.6#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

Instrument :

MSVOA\_L

ClientSampleId :

IA-B10-1-3242025

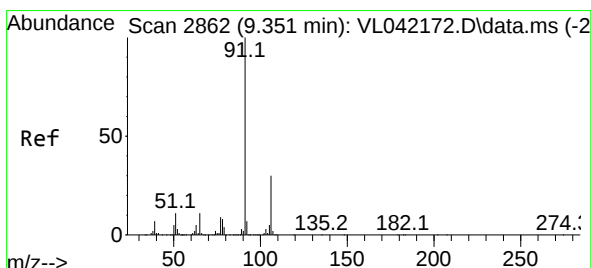
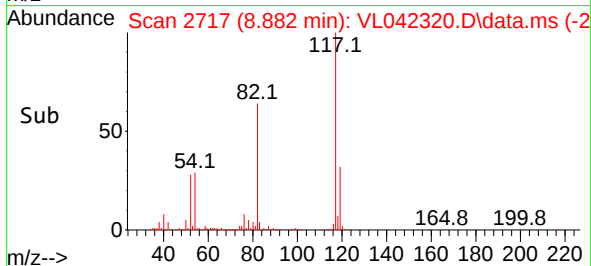
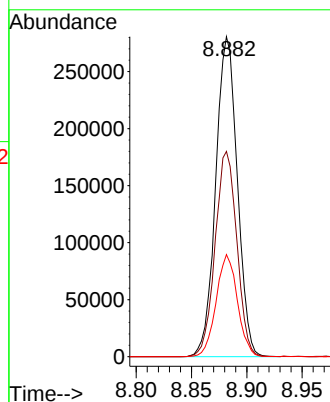
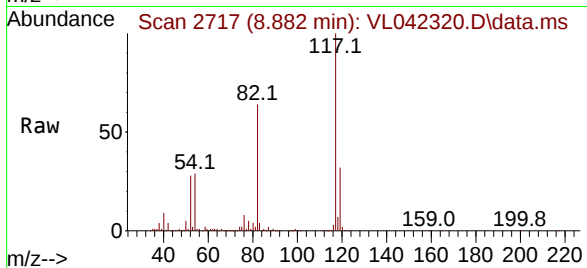
Tgt Ion:117 Resp: 381290

Ion Ratio Lower Upper

117 100

82 64.4 55.8 83.6

119 31.5 25.5 38.3



#58

Ethyl Benzene

Concen: 0.032 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.200 min

Lab File: VL042320.D

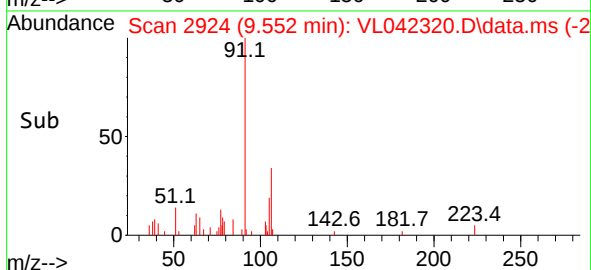
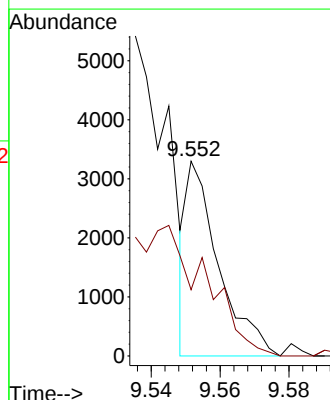
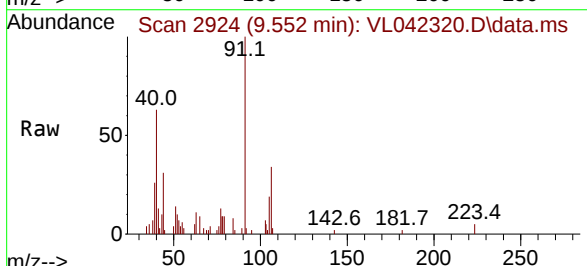
Acq: 11 Apr 2025 15:01

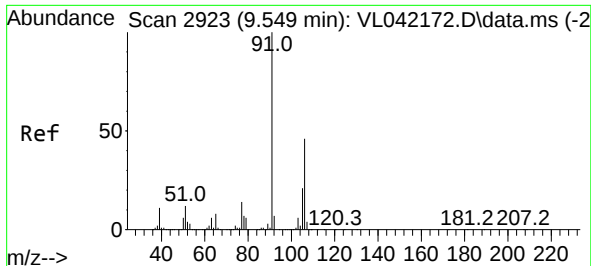
Tgt Ion: 91 Resp: 2141

Ion Ratio Lower Upper

91 100

106 32.9 24.2 36.2





#59

m/p-Xylene

Concen: 0.040 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.003 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

Instrument :

MSVOA\_L

ClientSampleId :

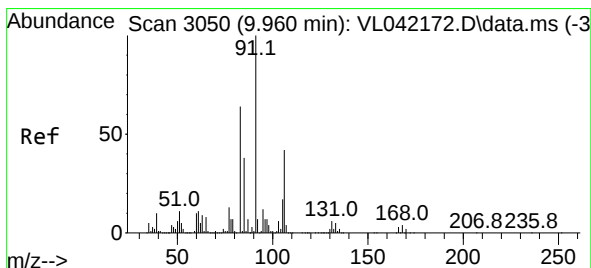
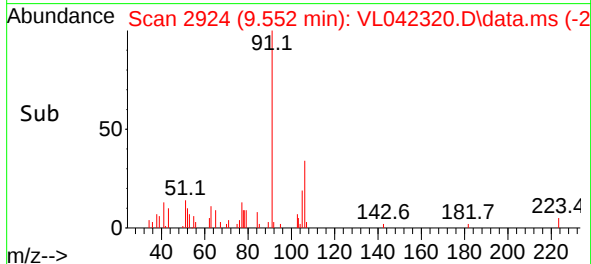
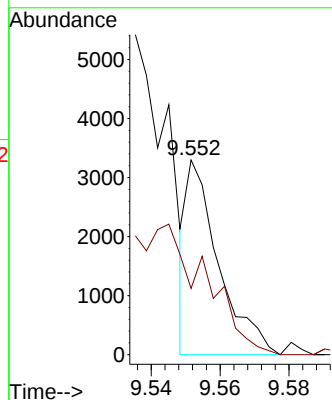
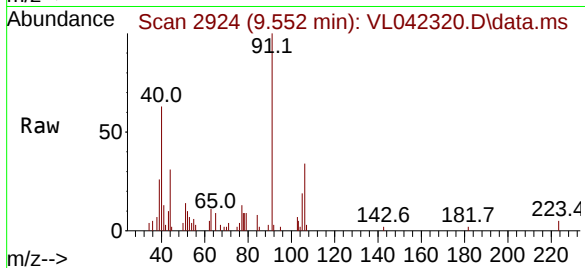
LA-B10-1-3242025

Tgt Ion: 91 Resp: 2141

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#



#60

o-Xylene

Concen: 0.147 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.006 min

Lab File: VL042320.D

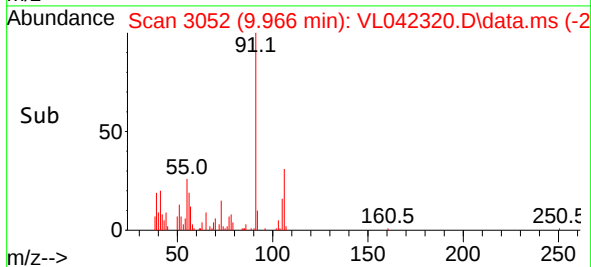
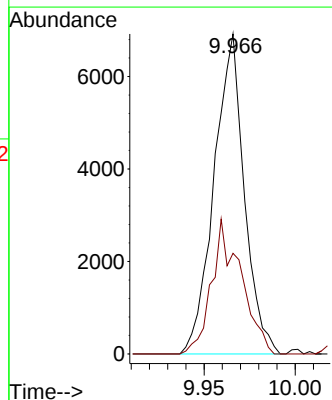
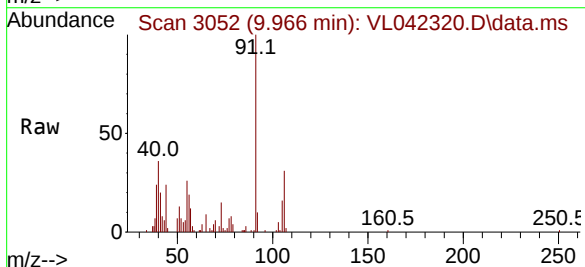
Acq: 11 Apr 2025 15:01

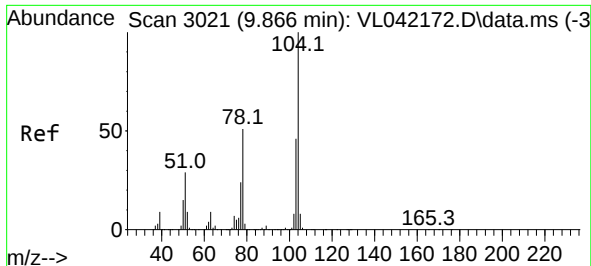
Tgt Ion: 91 Resp: 7975

Ion Ratio Lower Upper

91 100

106 41.2 20.8 62.5

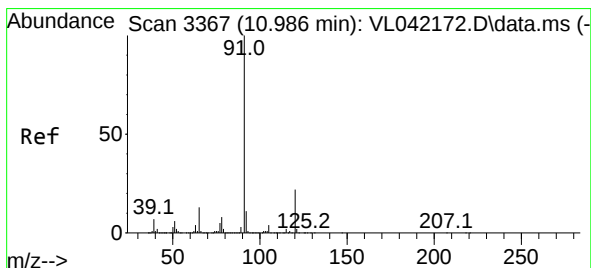
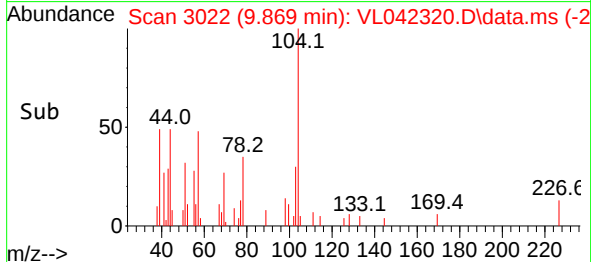
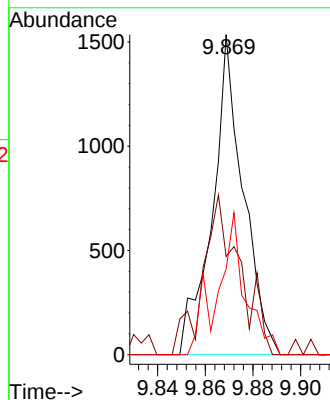
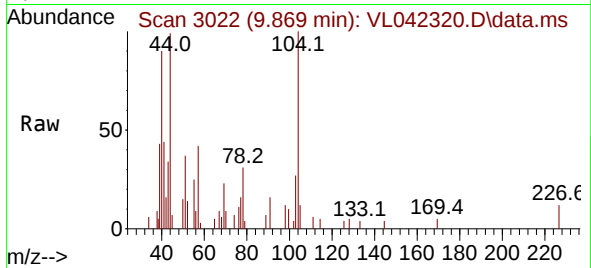




#61  
Styrene  
Concen: 0.051 ppbv  
RT: 9.869 min Scan# 3021  
Delta R.T. 0.003 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

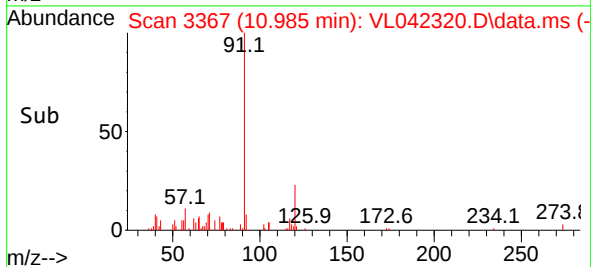
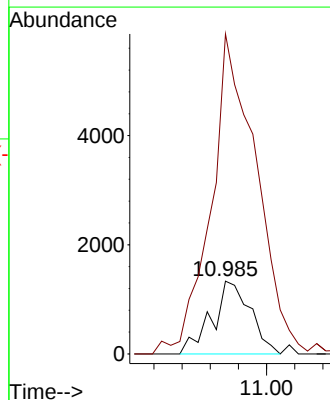
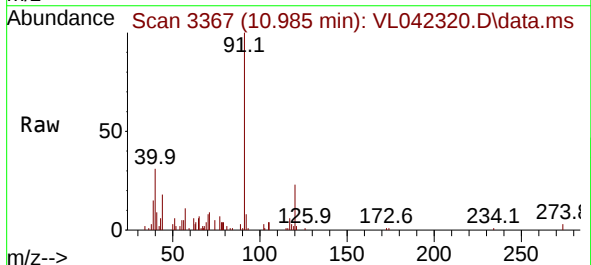
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B10-1-3242025

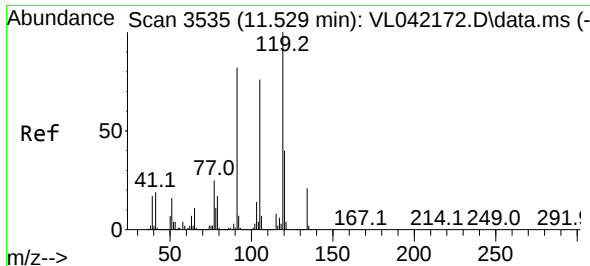
Tgt Ion:104 Resp: 1381  
Ion Ratio Lower Upper  
104 100  
78 65.4 41.8 62.6#  
103 40.7 37.0 55.4



#64  
n-propylbenzene  
Concen: 0.060 ppbv  
RT: 10.985 min Scan# 3367  
Delta R.T. -0.000 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

Tgt Ion:120 Resp: 1262  
Ion Ratio Lower Upper  
120 100  
91 530.8 376.9 565.3

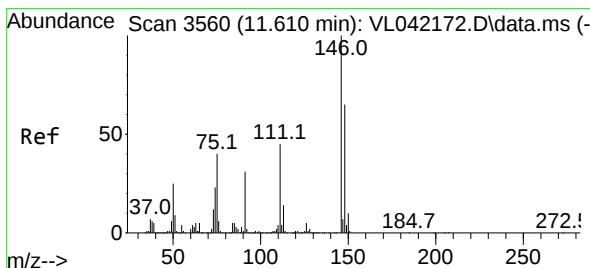
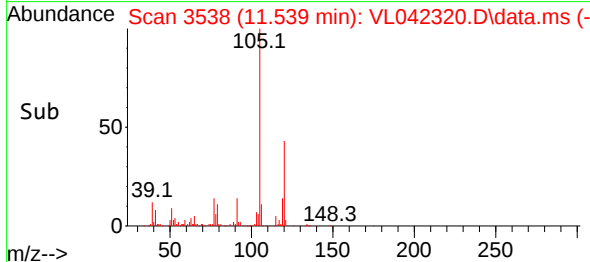
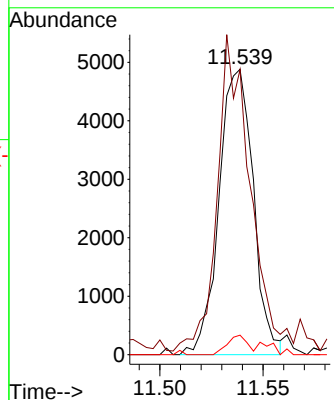
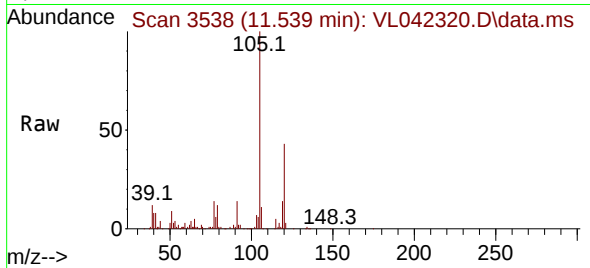




#65  
tert-Butylbenzene  
Concen: 0.075 ppbv  
RT: 11.539 min Scan# 3535  
Delta R.T. 0.009 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

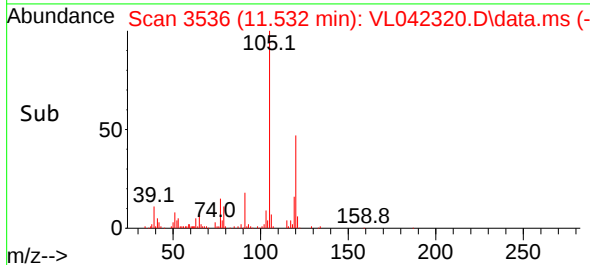
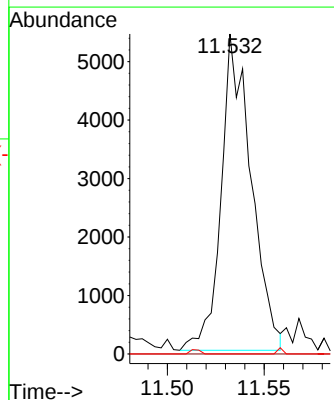
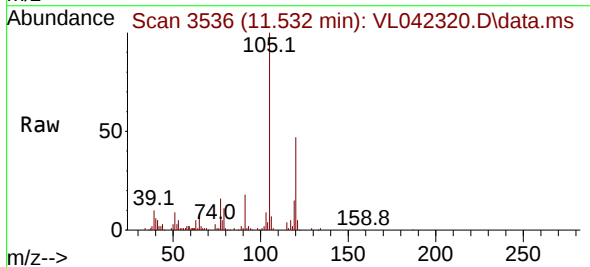
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B10-1-3242025

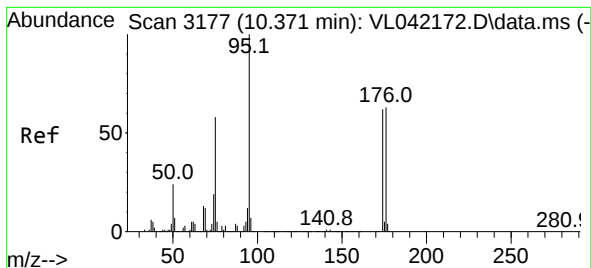
Tgt Ion:119 Resp: 5633  
Ion Ratio Lower Upper  
119 100  
91 108.4 66.0 99.0#  
134 6.2 16.7 25.1#



#66  
Benzyl Chloride  
Concen: 0.733 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. -0.078 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

Tgt Ion: 91 Resp: 5835  
Ion Ratio Lower Upper  
91 100  
126 0.0 13.8 20.6#  
128 0.5 4.5 6.7#

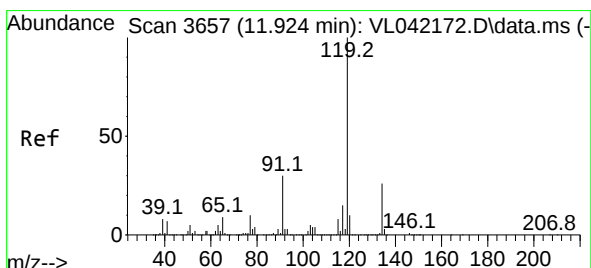
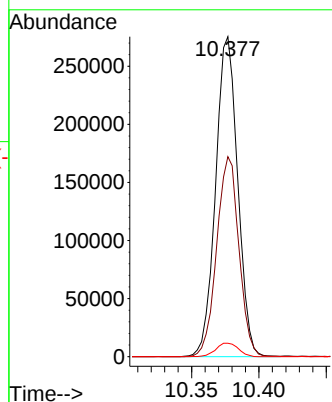
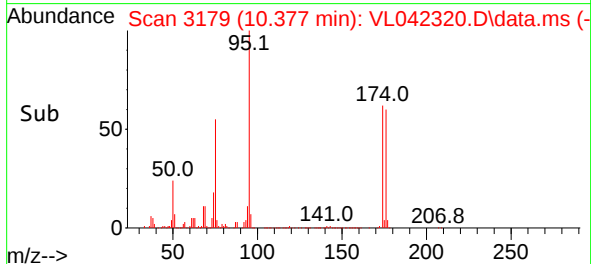
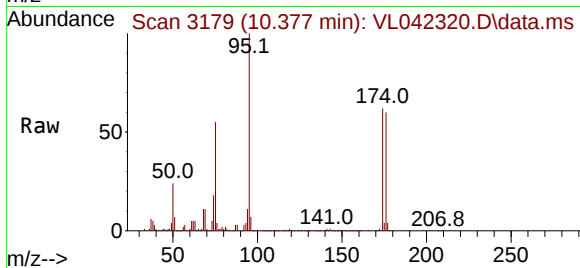




#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.030 ppbv  
RT: 10.377 min Scan# 3177  
Delta R.T. 0.006 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

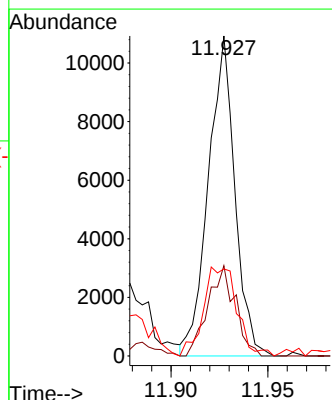
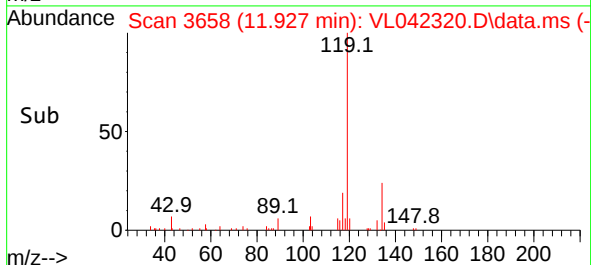
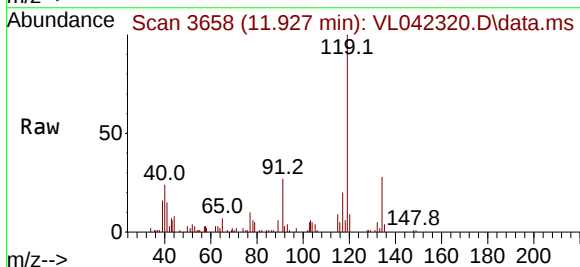
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B10-1-3242025

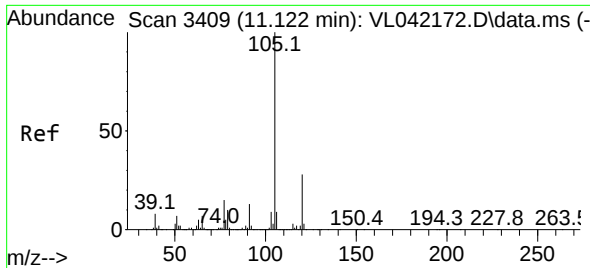
Tgt Ion: 95 Resp: 314052  
Ion Ratio Lower Upper  
95 100  
174 63.2 50.6 76.0  
175 4.3 3.8 5.6



#69  
p-Isopropyltoluene  
Concen: 0.116 ppbv  
RT: 11.927 min Scan# 3658  
Delta R.T. 0.003 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

Tgt Ion: 119 Resp: 10393  
Ion Ratio Lower Upper  
119 100  
134 33.8 20.4 30.6#  
91 32.3 23.7 35.5

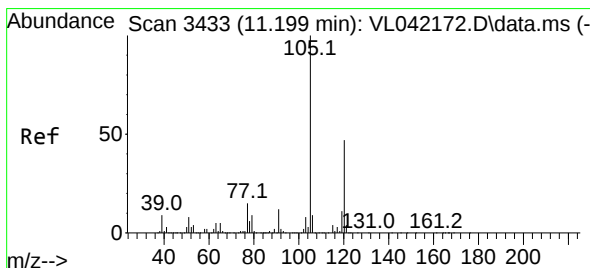
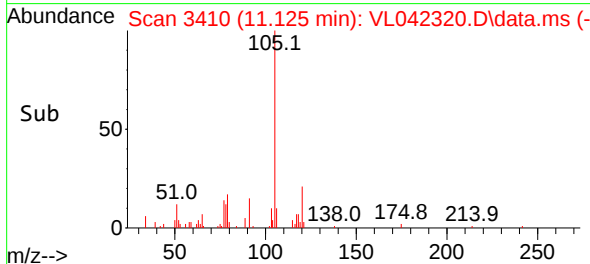
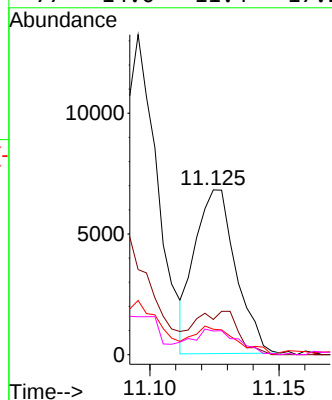
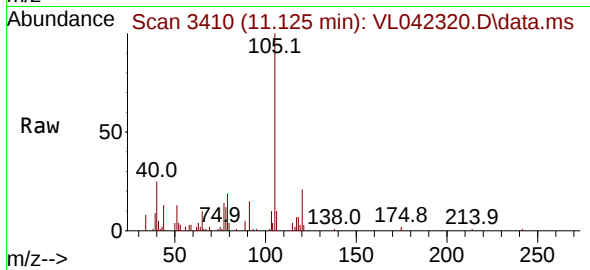




#72  
4-Ethyltoluene  
Concen: 0.111 ppbv  
RT: 11.125 min Scan# 3409  
Delta R.T. 0.003 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

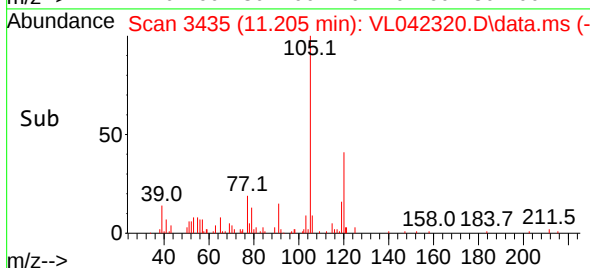
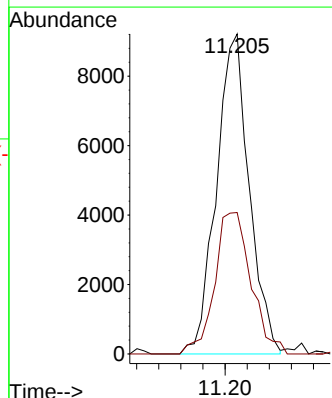
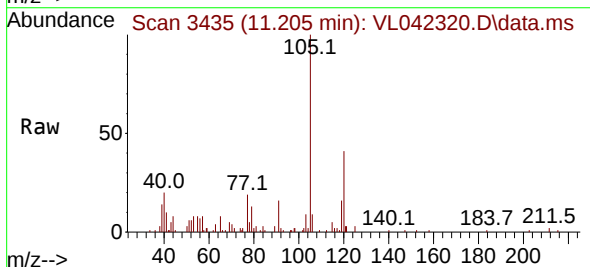
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA-B10-1-3242025

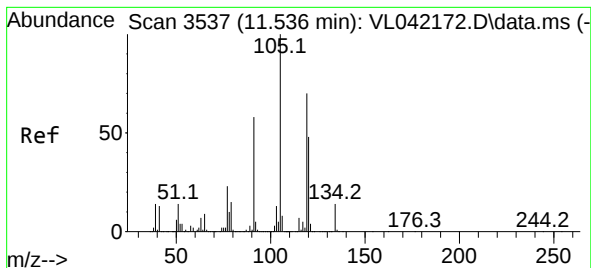
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:105 | Resp: | 7507       |
| Ion Ratio   | Lower | Upper      |
| 105         | 100   |            |
| 120         | 0.0   | 23.4 35.0# |
| 91          | 0.0   | 10.3 15.5# |
| 77          | 14.0  | 11.4 17.2  |



#73  
1,3,5-Trimethylbenzene  
Concen: 0.161 ppbv  
RT: 11.205 min Scan# 3435  
Delta R.T. 0.006 min  
Lab File: VL042320.D  
Acq: 11 Apr 2025 15:01

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:105 | Resp: | 9483      |
| Ion Ratio   | Lower | Upper     |
| 105         | 100   |           |
| 120         | 44.2  | 37.4 56.0 |





#74

1,2,4-Trimethylbenzene

Concen: 0.571 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.000 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

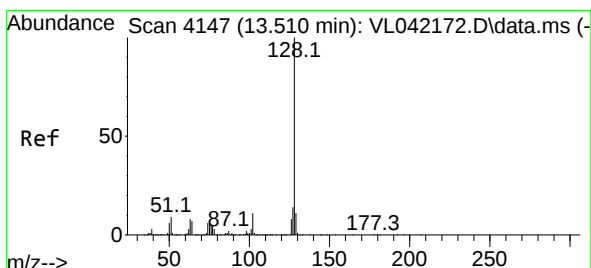
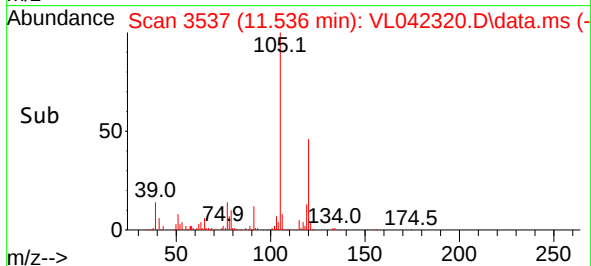
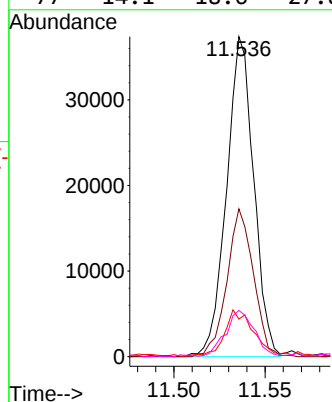
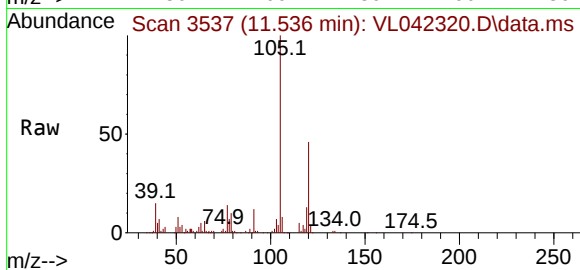
Instrument :

MSVOA\_L

ClientSampleId :

IA-B10-1-3242025

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 38801 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 46.2  | 38.6  | 58.0  |
| 91       | 11.5  | 46.2  | 69.2# |
| 77       | 14.1  | 18.6  | 27.8# |



#79

Naphthalene

Concen: 0.034 ppbv

RT: 13.516 min Scan# 4149

Delta R.T. 0.006 min

Lab File: VL042320.D

Acq: 11 Apr 2025 15:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 2510  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 15.7  | 10.8  | 16.2  |
| 129      | 3.6   | 9.0   | 13.4# |

