

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052522\  
 Data File : VL039125.D  
 Acq On : 25 May 2022 19:56  
 Operator : SY/AP  
 Sample : N2956-05DL 20X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VP-2DL

Quant Time: May 26 07:58:41 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu May 05 10:12:15 2022  
 QLast Update : Thu May 05 10:12:15 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.64  | 49   | 965954   | 10.00 | ppbv  | -0.03    |
| 33) 1,4-Difluorobenzene | 7.14  | 114  | 2178851  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.04 | 117  | 1842448  | 10.00 | ppbv  | -0.03    |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 14.37  | 95    | 1597407  | 10.95    | ppbv | -0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 109.50% |

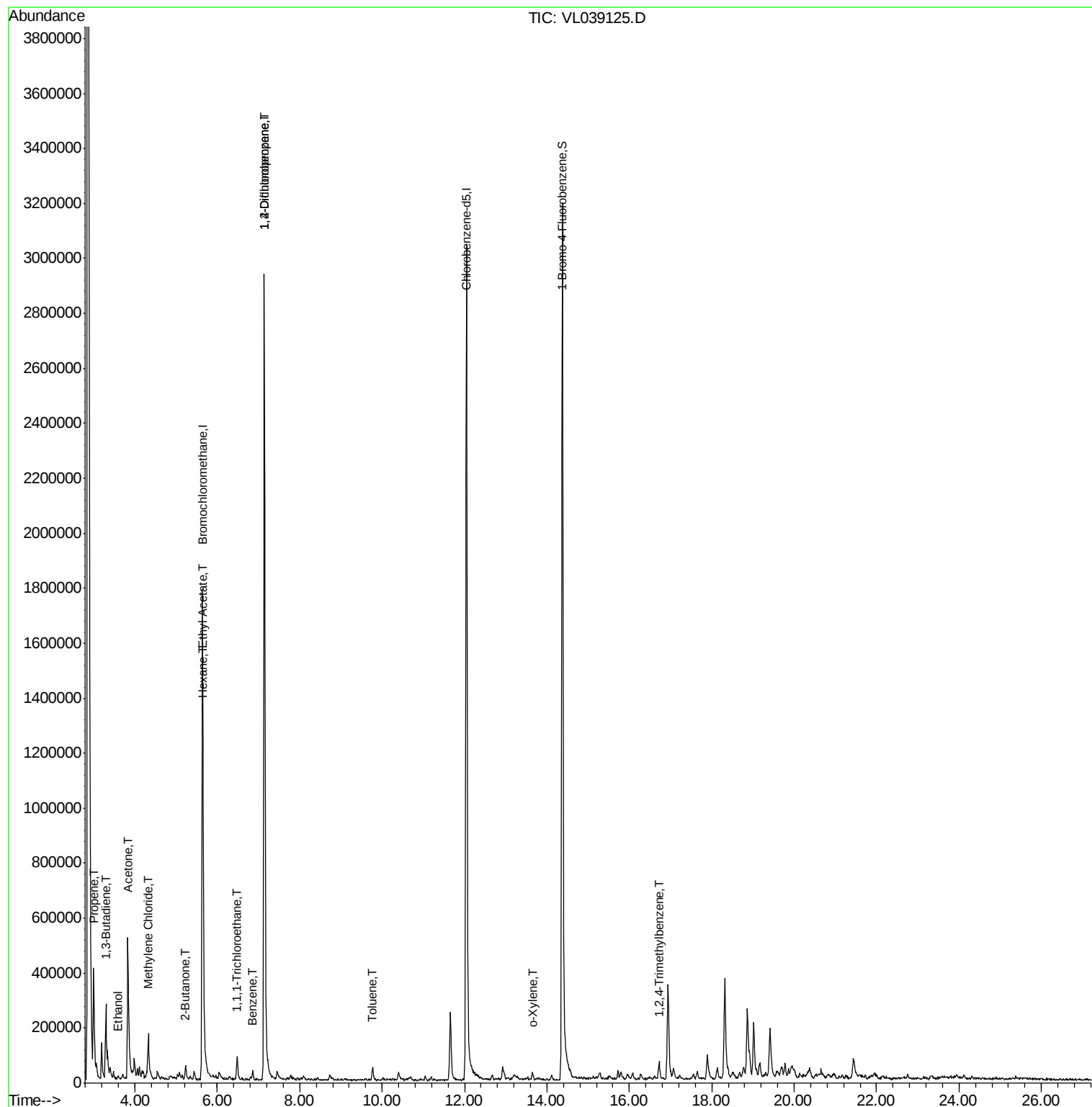
| Target Compounds           |       |     |        |              | Ovalue |
|----------------------------|-------|-----|--------|--------------|--------|
| 9) Propene                 | 3.00  | 41  | 184855 | 3.531 ppbv   | 98     |
| 13) Ethanol                | 3.59  | 45  | 7085   | 1.913 ppbv # | 31     |
| 15) Acetone                | 3.83  | 43  | 700930 | 7.693 ppbv   | 97     |
| 16) 1,3-Butadiene          | 3.29  | 39  | 102507 | 1.958 ppbv # | 35     |
| 20) Methylene Chloride     | 4.32  | 84  | 27973  | 0.815 ppbv # | 82     |
| 25) Ethyl Acetate          | 5.66  | 43  | 27374  | 0.126 ppbv # | 83     |
| 26) Hexane                 | 5.66  | 57  | 50709  | 0.523 ppbv # | 37     |
| 32) 1,1,1-Trichloroethane  | 6.48  | 97  | 50267  | 0.321 ppbv   | 89     |
| 34) 2-Butanone             | 5.22  | 43  | 36090  | 0.325 ppbv # | 42     |
| 36) Benzene                | 6.86  | 78  | 12873  | 0.069 ppbv # | 63     |
| 39) 1,2-Dichloropropane    | 7.14  | 63  | 612079 | 8.436 ppbv # | 26     |
| 53) Toluene                | 9.76  | 91  | 27917  | 0.134 ppbv   | 87     |
| 60) o-Xylene               | 13.65 | 91  | 13446  | 0.063 ppbv   | 79     |
| 74) 1,2,4-Trimethylbenzene | 16.72 | 105 | 28354  | 0.118 ppbv # | 73     |

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

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VP-2DL

Quant Time: May 26 07:58:41 2022  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu May 05 10:12:15 2022  
QLast Update : Thu May 05 10:12:15 2022  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: VP-2DL

Acq: 25 May 2022 19:56

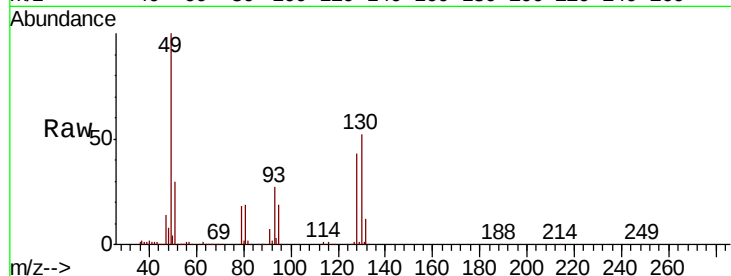
Tot Ion: 49 Resp: 965954

Ion Ratio Lower Upper

49 100

128 45.2 23.3 69.8

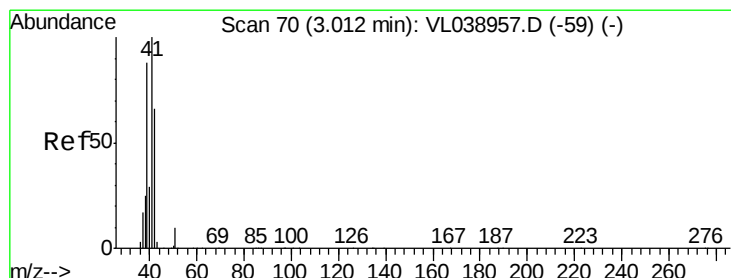
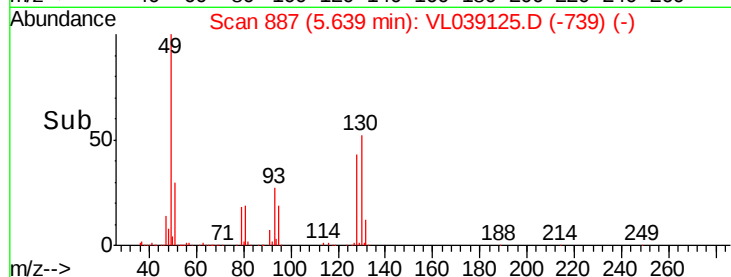
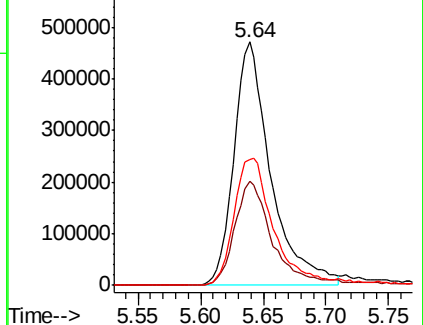
130 57.7 29.8 89.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 3.531 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL039125.D

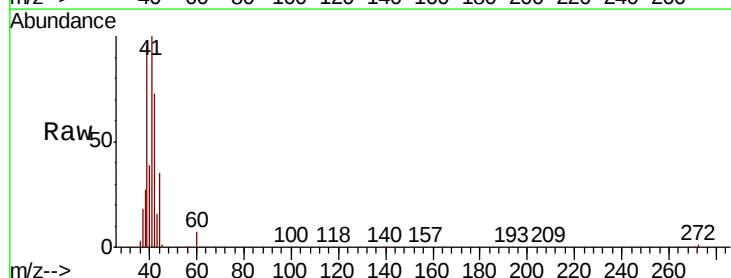
Acq: 25 May 2022 19:56

Tgt Ion: 41 Resp: 184855

Ion Ratio Lower Upper

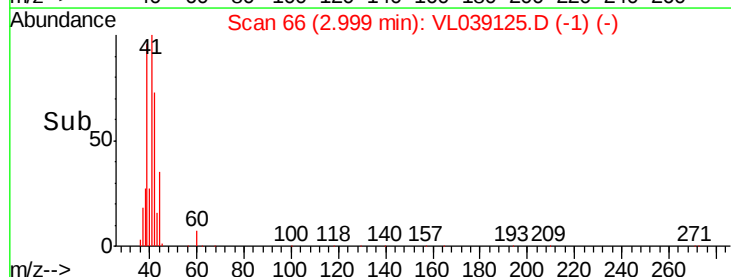
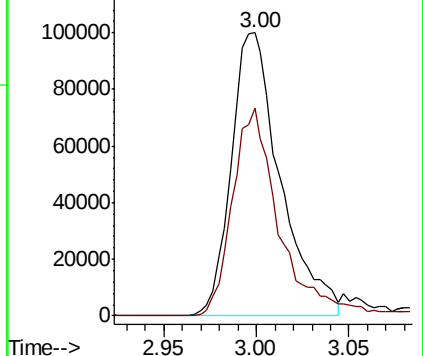
41 100

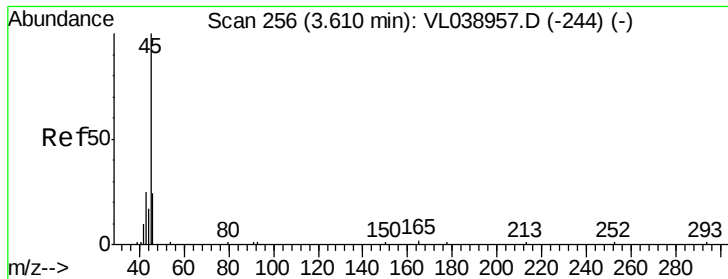
42 71.0 58.3 87.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

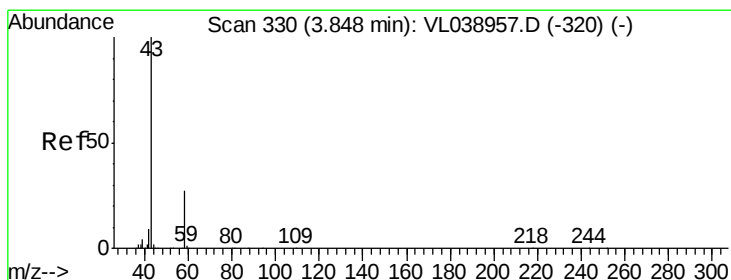
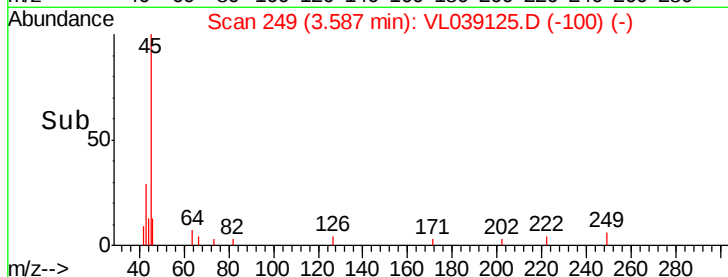
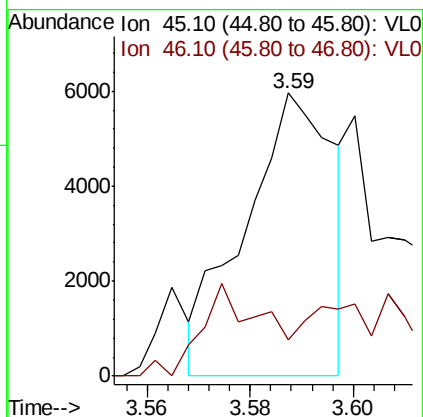
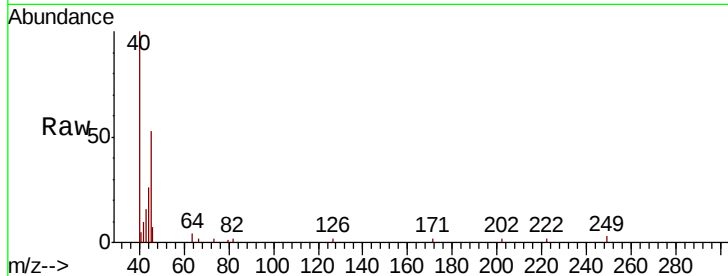
Ion 42.10 (41.80 to 42.80): VL0





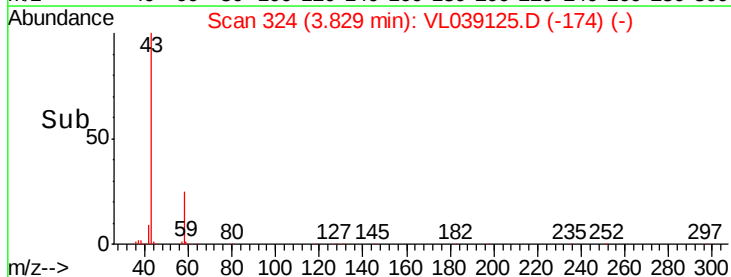
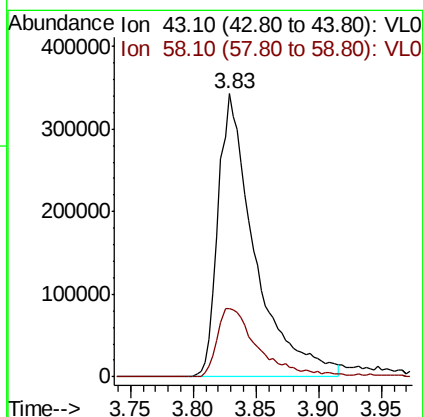
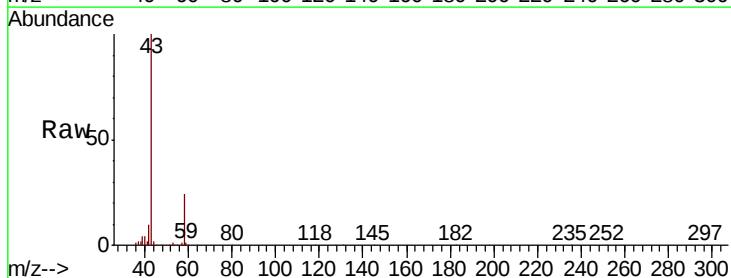
#13  
Ethanol  
Concen: 1.913 ppbv  
RT: 3.59  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 25 May 2022 19:56

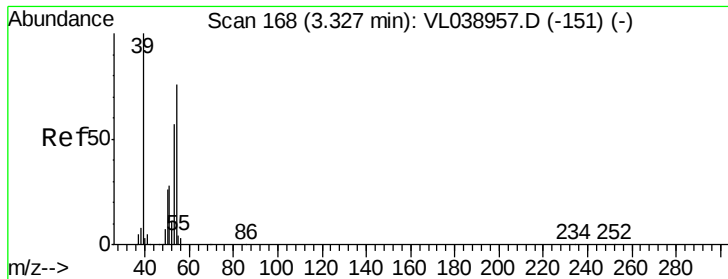
Tot Ion: 45 Resp: 7085  
Ion Ratio Lower Upper  
45 100  
46 0.0 18.0 72.2#



#15  
Acetone  
Concen: 7.693 ppbv  
RT: 3.83 min Scan# 324  
Delta R.T. -0.02 min  
Lab File: VL039125.D  
Acq: 25 May 2022 19:56

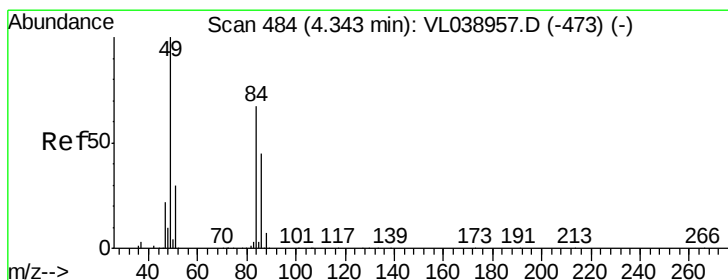
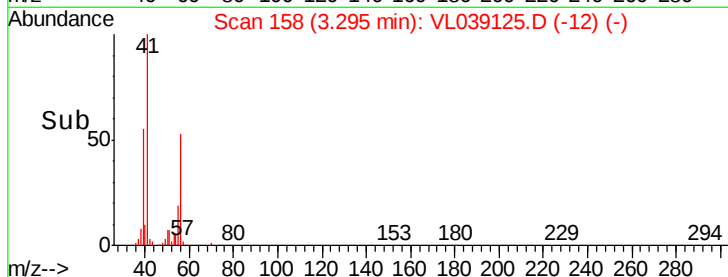
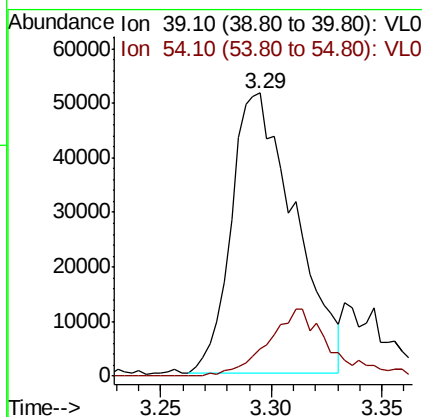
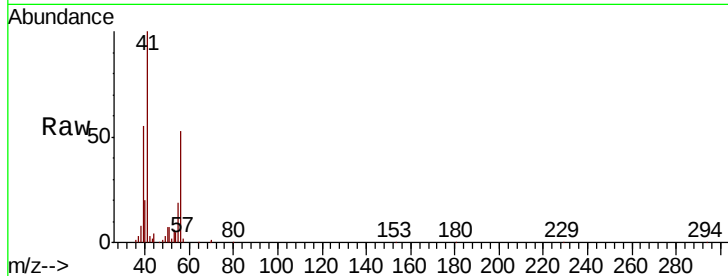
Tgt Ion: 43 Resp: 700930  
Ion Ratio Lower Upper  
43 100  
58 28.0 21.3 31.9





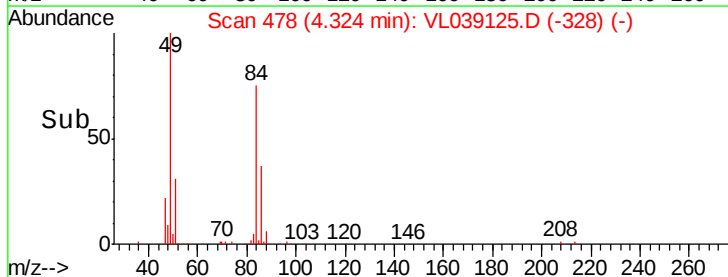
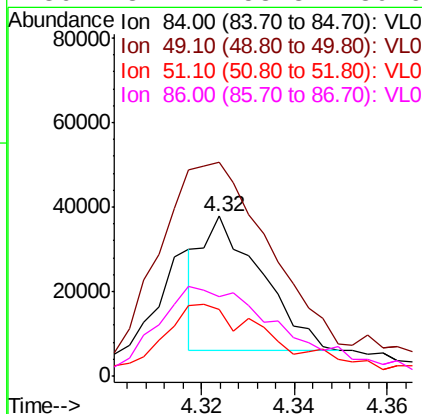
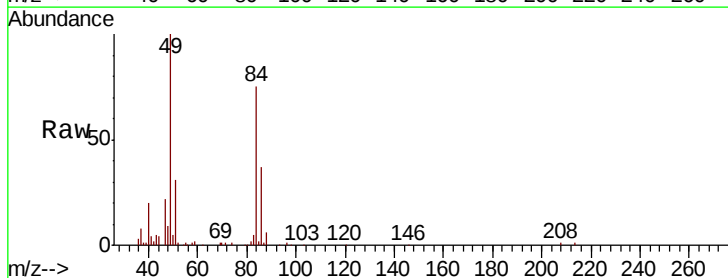
#16  
 1,3-Butadiene  
 Concen: 1.958 ppbv  
 RT: 3.29  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 25 May 2022 19:58

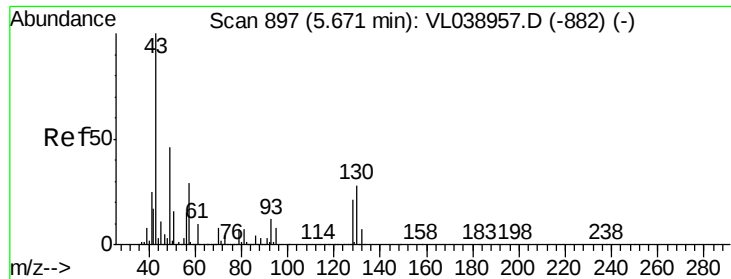
Tot Ion: 39 Resp: 102507  
 Ion Ratio Lower Upper  
 39 100  
 54 23.3 65.2 97.8#



#20  
 Methylene Chloride  
 Concen: 0.815 ppbv  
 RT: 4.32 min Scan# 478  
 Delta R.T. -0.02 min  
 Lab File: VL039125.D  
 Acq: 25 May 2022 19:56

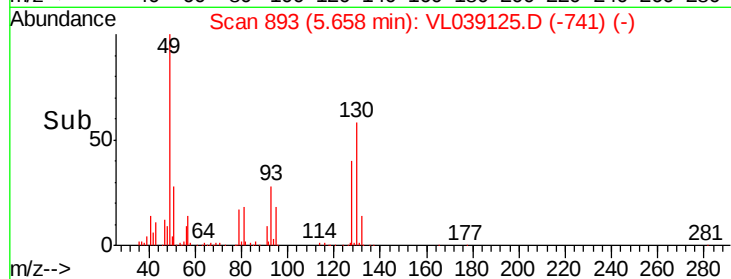
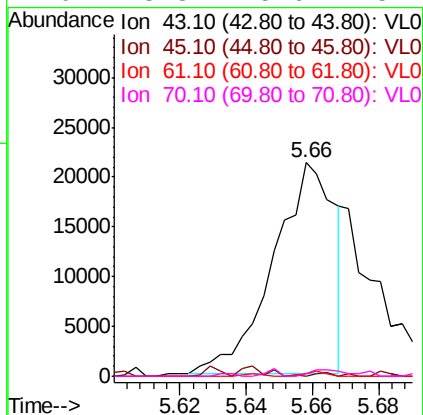
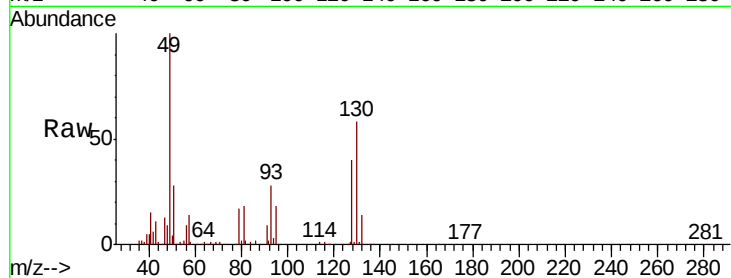
Tgt Ion: 84 Resp: 27973  
 Ion Ratio Lower Upper  
 84 100  
 49 135.6 119.9 179.9  
 51 36.7 35.7 53.5  
 86 37.7 53.8 80.6#





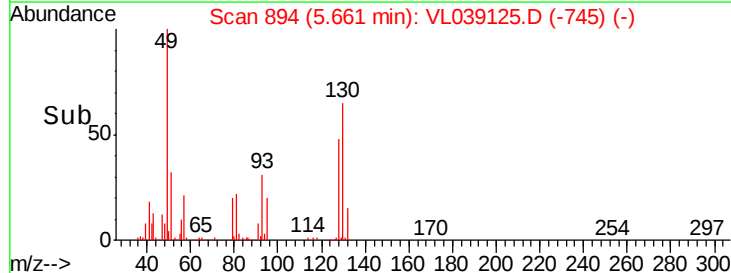
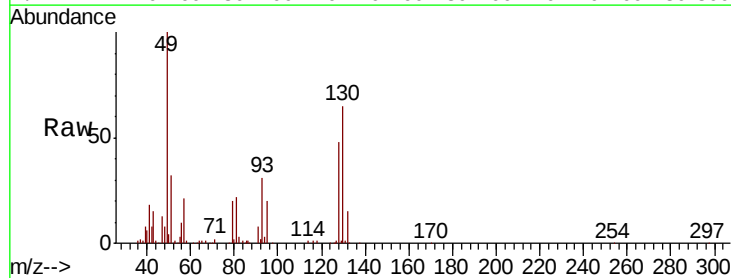
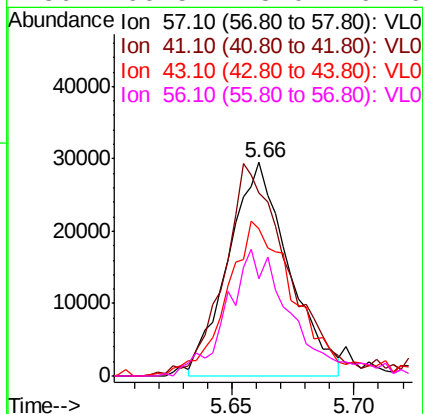
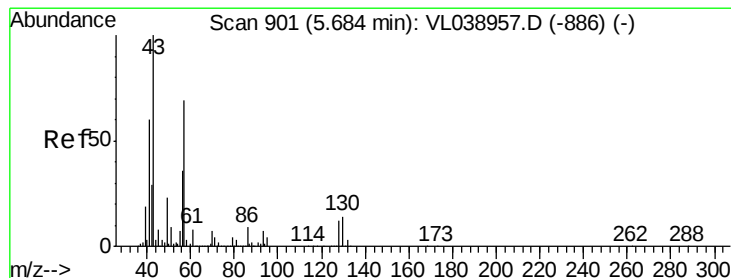
#25  
Ethyl Acetate  
Concen: 0.126 ppbv  
RT: 5.66  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
VP-2DL  
Acq: 25 May 2022 19:56

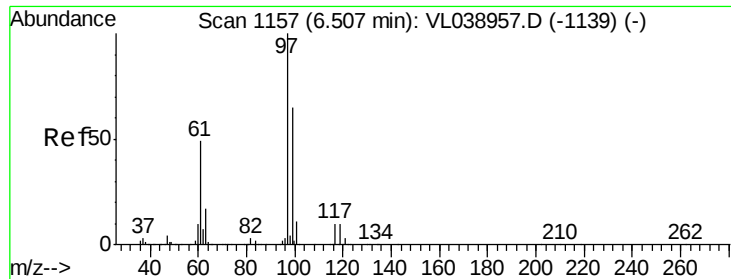
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 27374 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 4.2   | 8.1   | 12.1# |
| 61       | 1.3   | 7.8   | 11.6# |
| 70       | 3.3   | 5.6   | 8.4#  |



#26  
Hexane  
Concen: 0.523 ppbv  
RT: 5.66 min Scan# 894  
Delta R.T.: -0.02 min  
Lab File: VL039125.D  
Acq: 25 May 2022 19:56

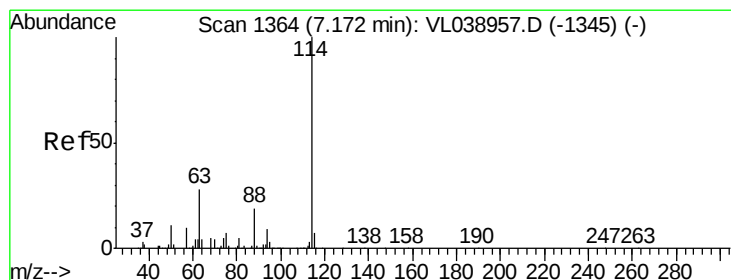
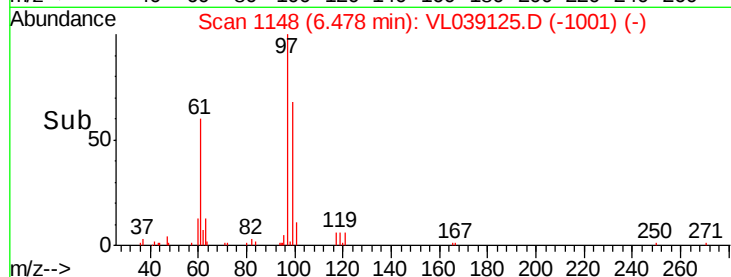
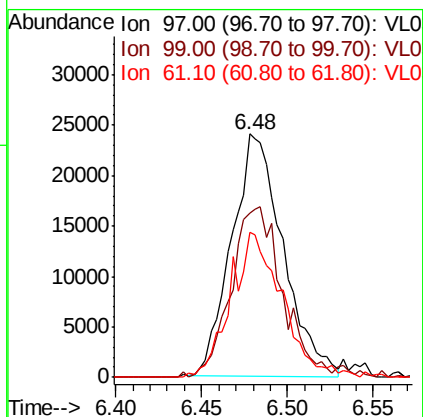
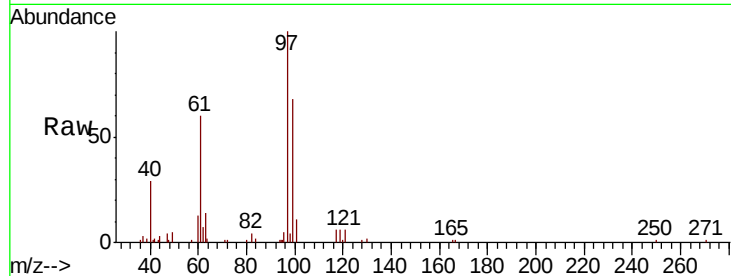
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 50709  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 112.6 | 75.2  | 112.8  |
| 43       | 86.5  | 190.8 | 286.2# |
| 56       | 66.5  | 43.0  | 64.6#  |





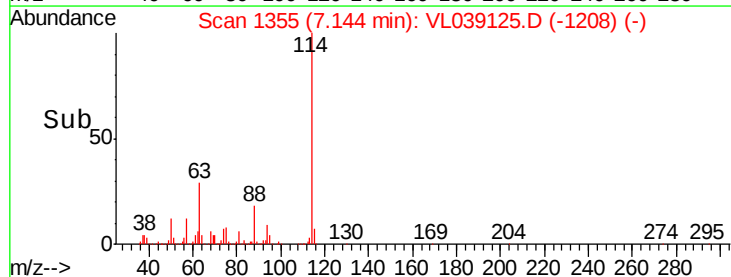
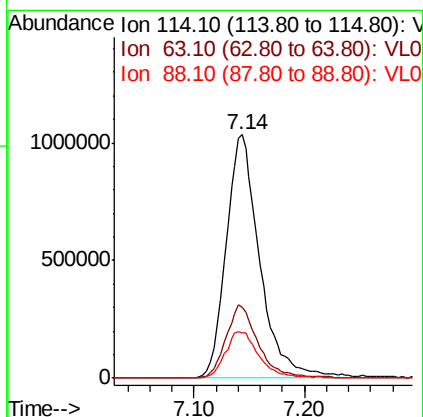
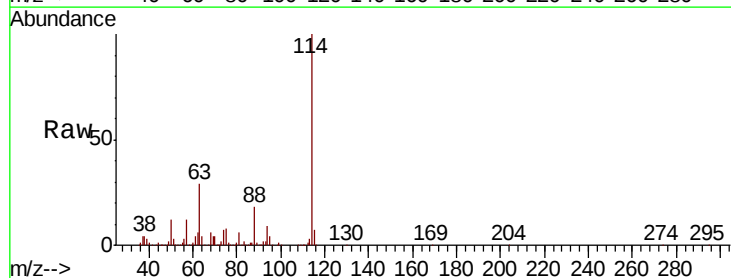
#32  
 1,1,1-Trichloroethane  
 Concen: 0.321 ppbv  
 RT: 6.48  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 Acq: 25 May 2022 19:56

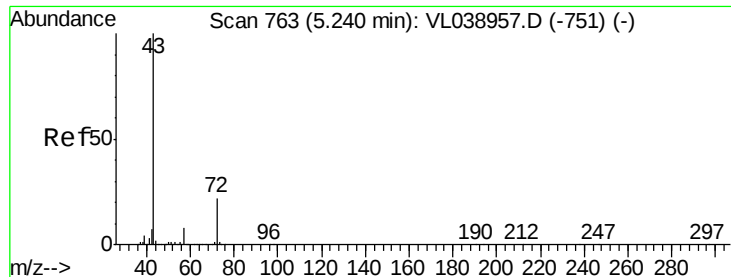
| Tot Ion   | 97    | Resp  | 50267 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 97        | 100   |       |       |
| 99        | 71.8  | 51.9  | 77.9  |
| 61        | 60.2  | 40.9  | 61.3  |



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.14 min Scan# 1355  
 Delta R.T. -0.03 min  
 Lab File: VL039125.D  
 Acq: 25 May 2022 19:56

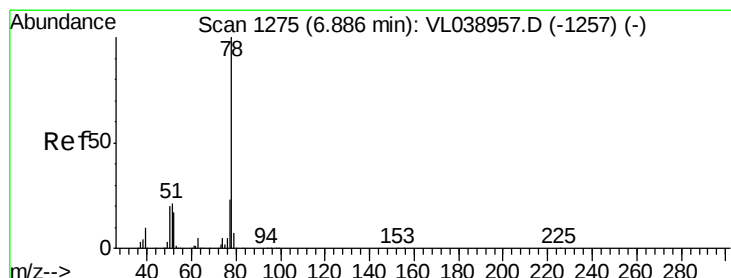
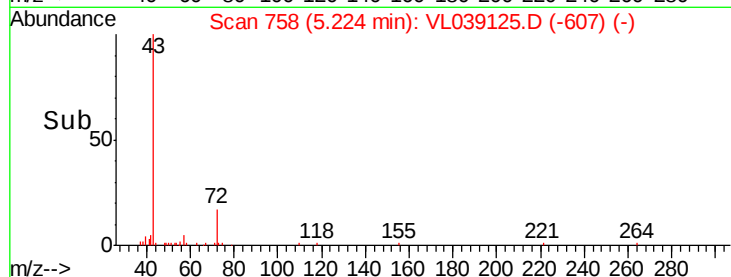
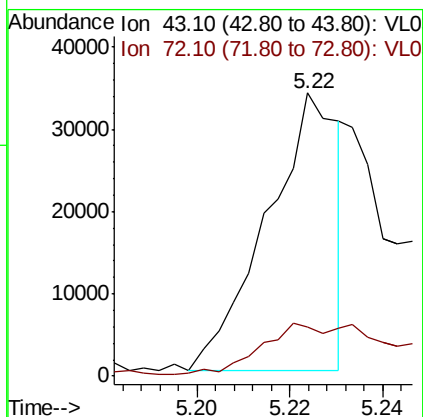
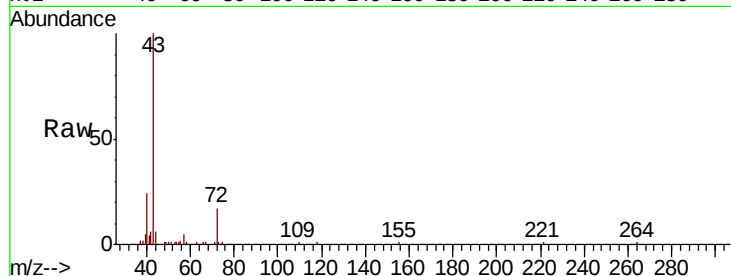
| Tgt Ion   | 114   | Resp  | 2178851 |
|-----------|-------|-------|---------|
| Ion Ratio | Lower | Upper |         |
| 114       | 100   |       |         |
| 63        | 29.3  | 22.6  | 33.8    |
| 88        | 19.6  | 15.4  | 23.0    |





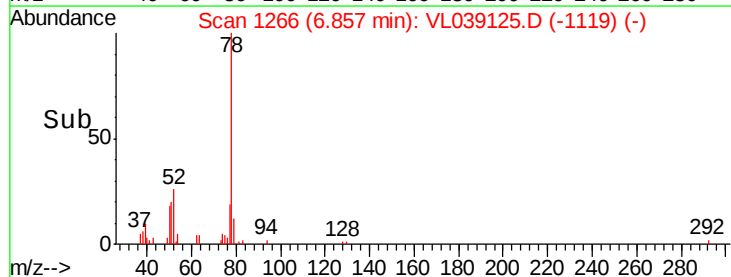
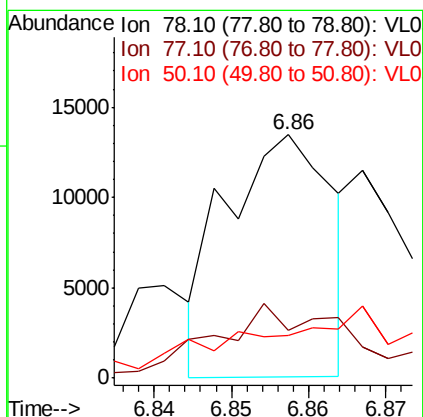
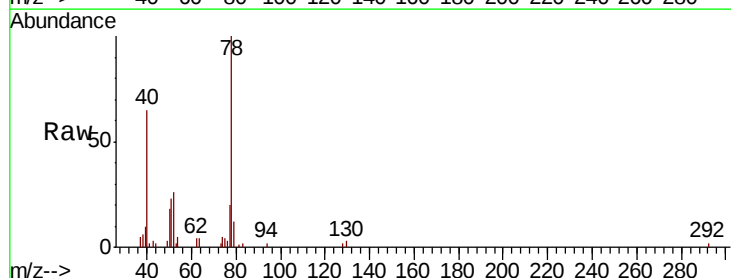
#34  
 2-Butanone  
 Concen: 0.325 ppbv  
 RT: 5.22  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 25 May 2022 19:56

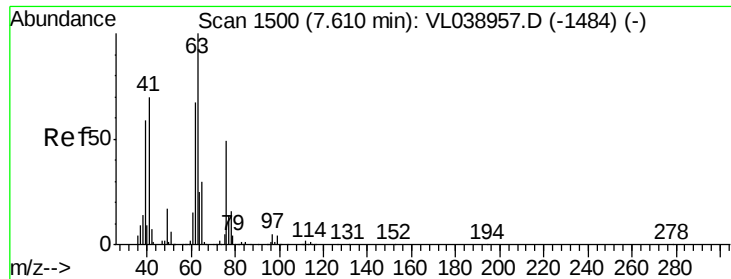
Tot Ion: 43 Resp: 36090  
 Ion Ratio Lower Upper  
 43 100  
 72 49.8 17.8 26.6#



#36  
 Benzene  
 Concen: 0.069 ppbv  
 RT: 6.86 min Scan# 1266  
 Delta R.T. -0.03 min  
 Lab File: VL039125.D  
 Acq: 25 May 2022 19:56

Tgt Ion: 78 Resp: 12873  
 Ion Ratio Lower Upper  
 78 100  
 77 5.4 18.6 28.0#  
 50 2.2 15.6 23.4#





#39

1,2-Dichloropropane

Concen: 8.436 ppbv

RT: 7.14 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 25 May 2022 19:56

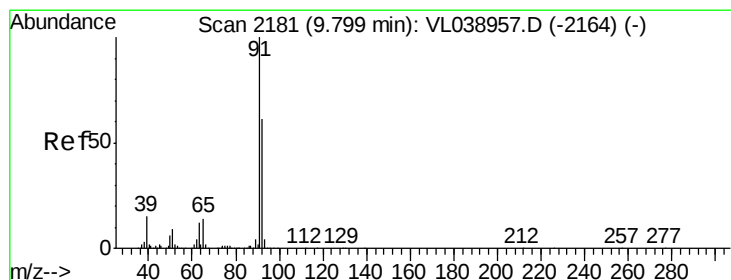
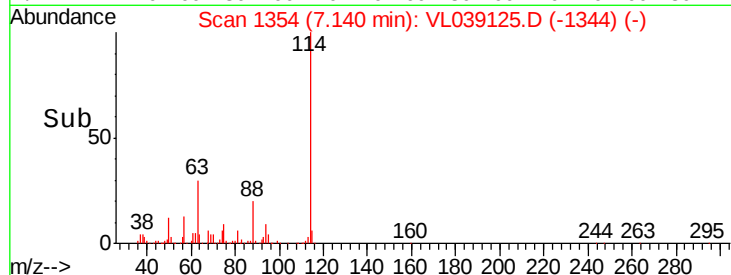
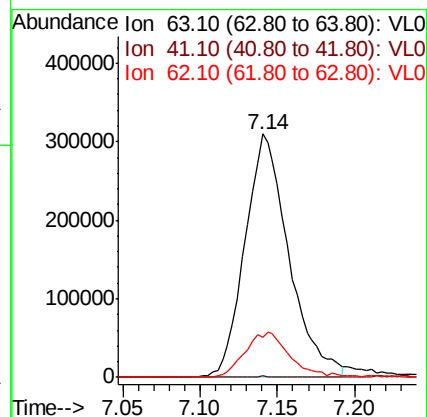
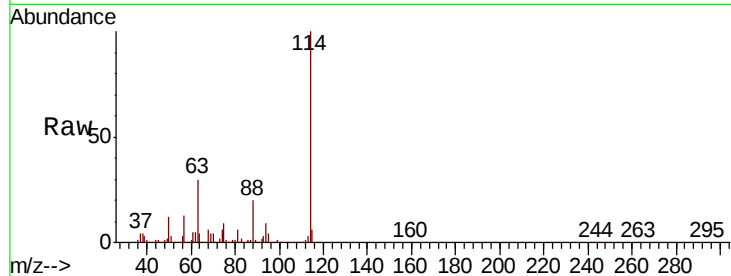
Tot Ion: 63 Resp: 612079

Ion Ratio Lower Upper

63 100

41 0.5 55.9 83.9#

62 16.5 53.8 80.6#



#53

Toluene

Concen: 0.134 ppbv

RT: 9.76 min Scan# 2170

Delta R.T. -0.04 min

Lab File: VL039125.D

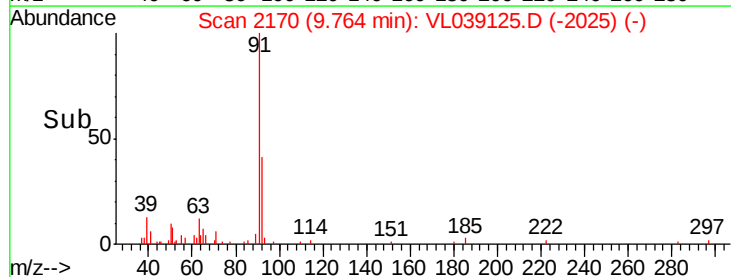
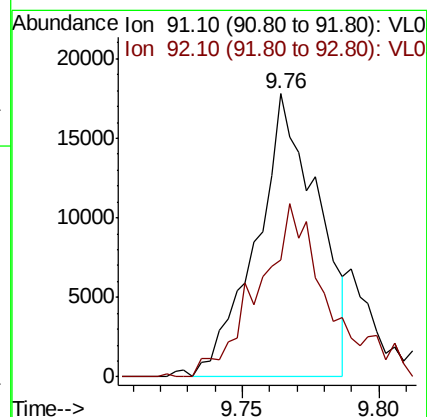
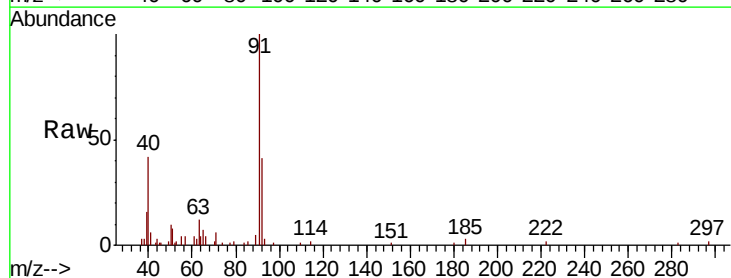
Acq: 25 May 2022 19:56

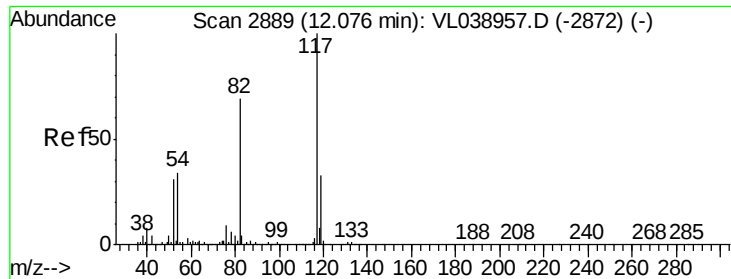
Tgt Ion: 91 Resp: 27917

Ion Ratio Lower Upper

91 100

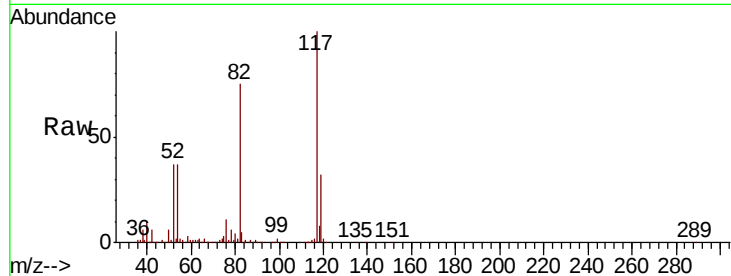
92 69.9 48.2 72.2



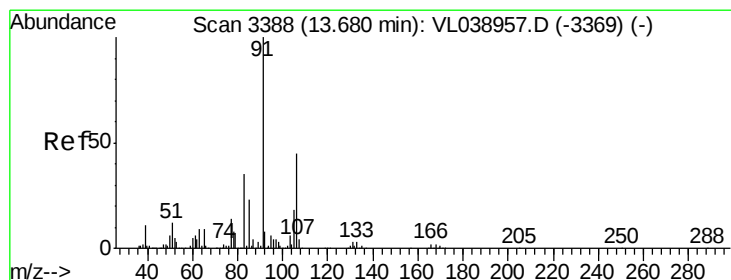
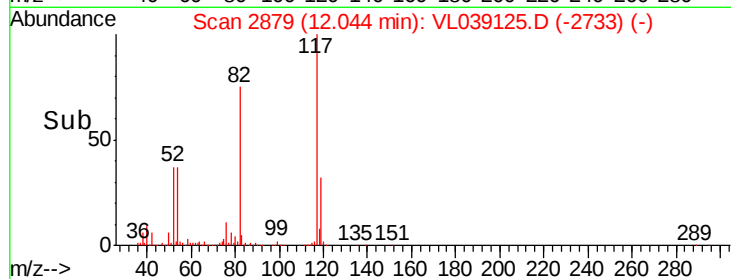
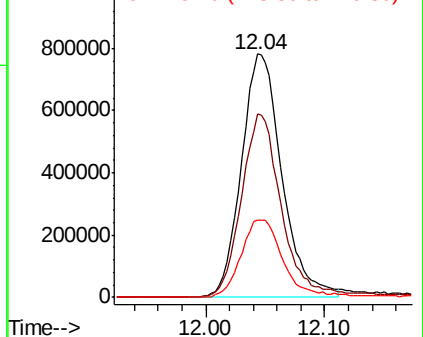


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.04 min  
Delta R.T.: MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 25 May 2022 19:50

Tot Ion: 117 Resp: 1842448  
Ion Ratio Lower Upper  
117 100  
82 77.0 57.0 85.6  
119 33.5 27.2 40.8

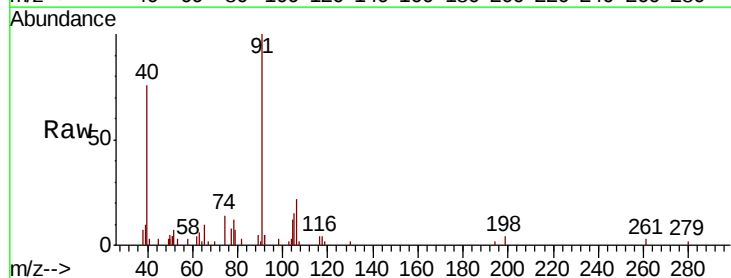


Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): VL0  
Ion 119.10 (118.80 to 119.80): V

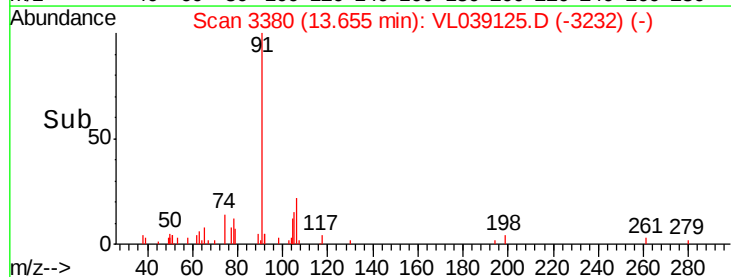
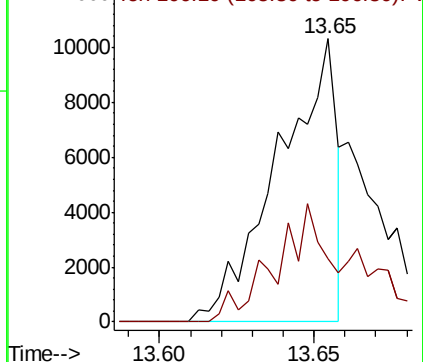


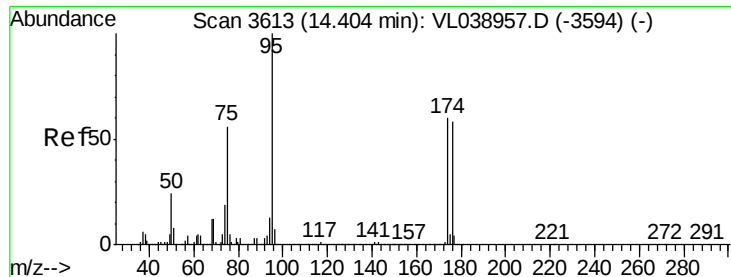
#60  
o-Xylene  
Concen: 0.063 ppbv  
RT: 13.65 min Scan# 3380  
Delta R.T.: -0.03 min  
Lab File: VL039125.D  
Acq: 25 May 2022 19:56

Tgt Ion: 91 Resp: 13446  
Ion Ratio Lower Upper  
91 100  
106 58.3 22.2 66.6



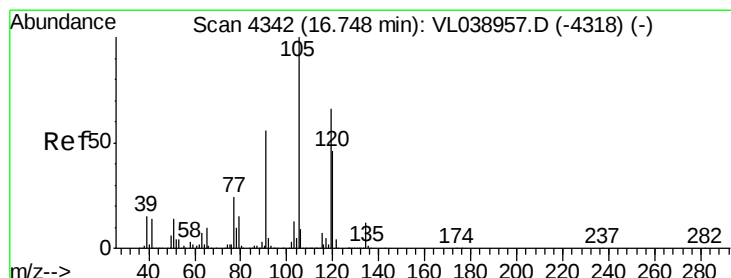
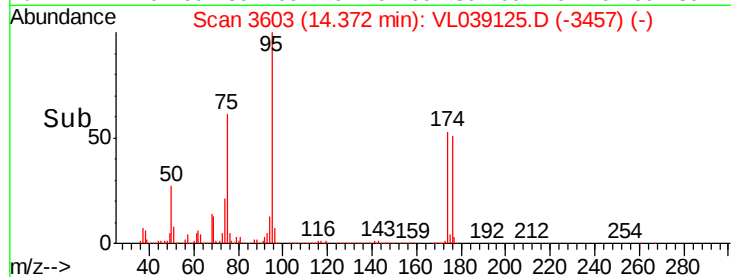
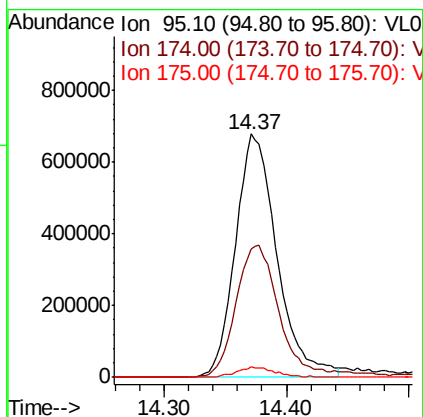
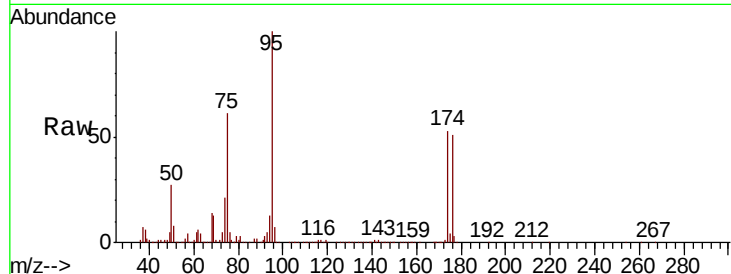
Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.948 ppbv  
 RT: 14.37  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VP-2DL  
 Acq: 25 May 2022 19:56

Tot Ion: 95 Resp: 1597407  
 Ion Ratio Lower Upper  
 95 100  
 174 58.6 50.8 76.2  
 175 4.3 3.8 5.6



#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.118 ppbv  
 RT: 16.72 min Scan# 4334  
 Delta R.T. -0.03 min  
 Lab File: VL039125.D  
 Acq: 25 May 2022 19:56

Tgt Ion:105 Resp: 28354  
 Ion Ratio Lower Upper  
 105 100  
 120 45.2 36.9 55.3  
 91 19.6 45.0 67.4#  
 77 13.2 19.2 28.8#

