

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060821\  
 Data File : VL037131.D  
 Acq On : 8 Jun 2021 14:19  
 Operator : SY/AP  
 Sample : M2614-01DL 10X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Jun 09 01:19:18 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 12:00:15 2021  
 QLast Update : Tue May 18 12:00:15 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1355975  | 10.00 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 4087460  | 10.00 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 3621744  | 10.00 | ppbv  | 0.02     |

| System Monitoring Compounds |        | R.T.  | QIon     | Response | Conc | Units   | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------|---------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2720941  | 10.00    | ppbv | 0.02    |          |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.00% |          |

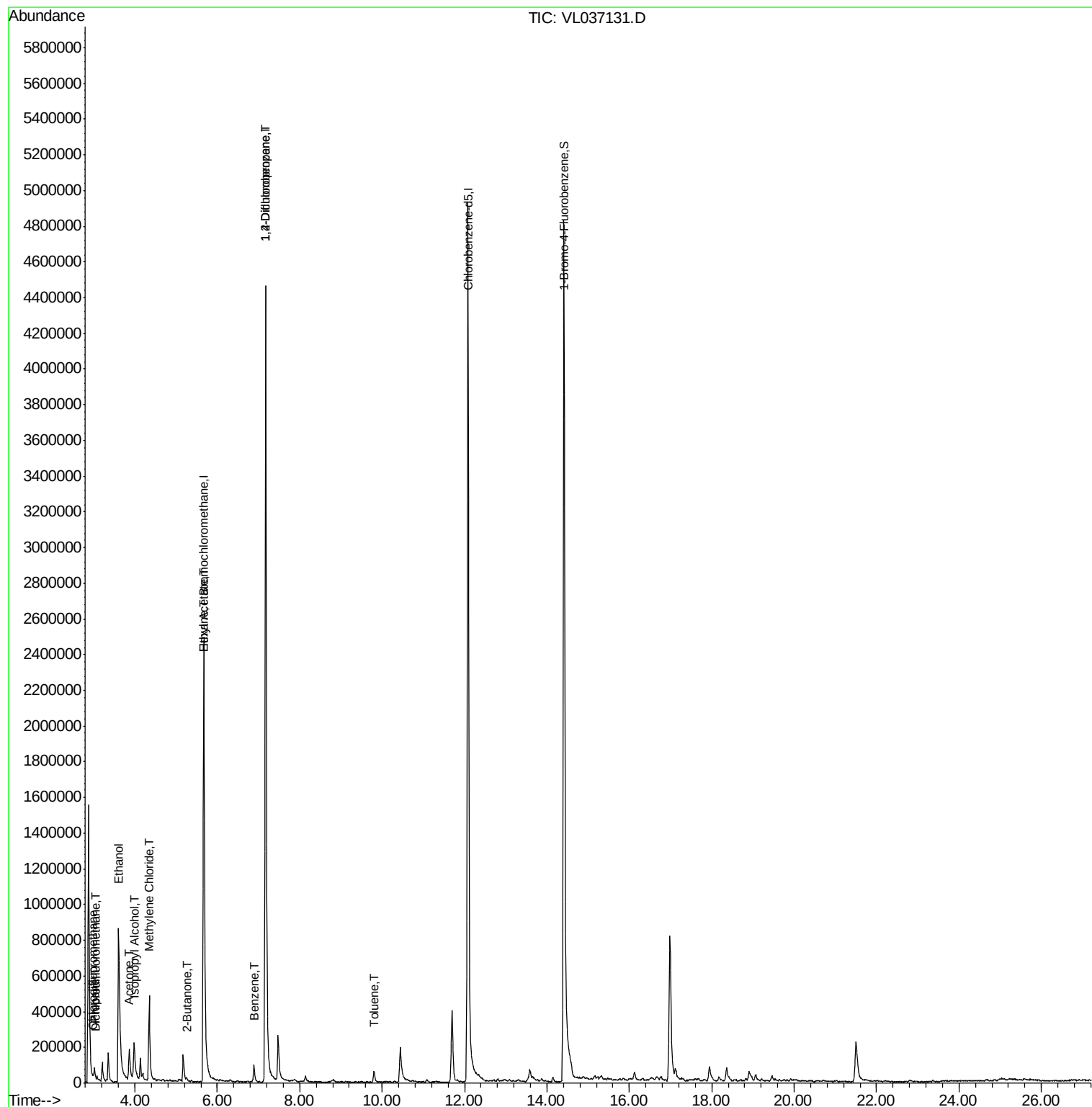
| Target Compounds           | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|----------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane | 3.05 | 85   | 8689     | 0.038   | ppbv # | 59     |
| 3) Chlorodifluoromethane   | 2.99 | 51   | 53523    | 0.215   | ppbv # | 90     |
| 9) Propene                 | 3.02 | 41   | 9134     | 0.103   | ppbv # | 5      |
| 13) Ethanol                | 3.60 | 45   | 1426709  | 120.208 | ppbv   | 94     |
| 15) Acetone                | 3.86 | 43   | 219317   | 1.579   | ppbv # | 88     |
| 19) Isopropyl Alcohol      | 3.98 | 45   | 309993   | 4.152   | ppbv # | 35     |
| 20) Methylene Chloride     | 4.34 | 84   | 203908   | 2.739   | ppbv   | 99     |
| 25) Ethyl Acetate          | 5.68 | 43   | 82404    | 0.247   | ppbv # | 88     |
| 26) Hexane                 | 5.68 | 57   | 103442   | 0.607   | ppbv # | 51     |
| 34) 2-Butanone             | 5.24 | 43   | 7968     | 0.054   | ppbv # | 1      |
| 36) Benzene                | 6.89 | 78   | 44546    | 0.127   | ppbv   | 95     |
| 39) 1,2-Dichloropropane    | 7.17 | 63   | 954163   | 7.035   | ppbv # | 25     |
| 53) Toluene                | 9.82 | 91   | 13667    | 0.033   | ppbv # | 19     |

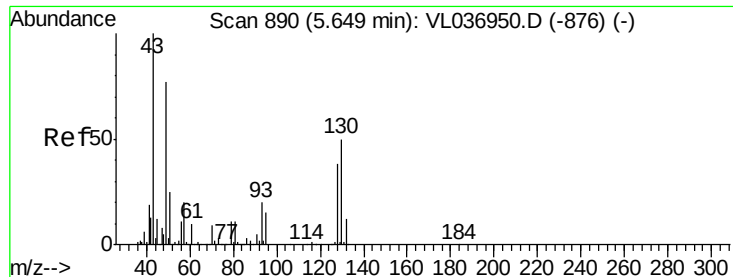
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 18 12:00:15 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.02 min

Lab File: VL037131.D

Acq: 8 Jun 2021 14:19

Instrument :

MSVOA\_L

ClientSampleId :

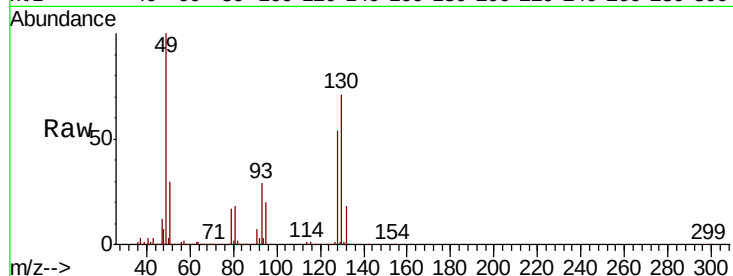
Tot Ion: 49 Resp: 1355975

Ion Ratio Lower Upper

49 100

128 57.1 26.9 80.7

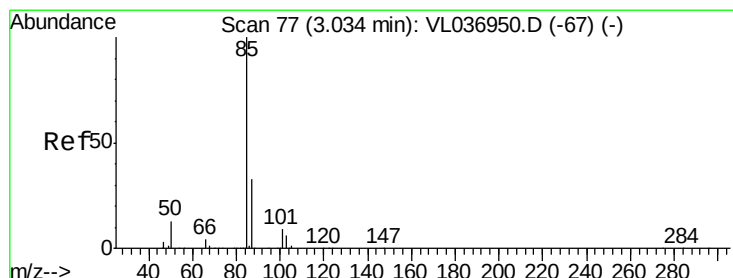
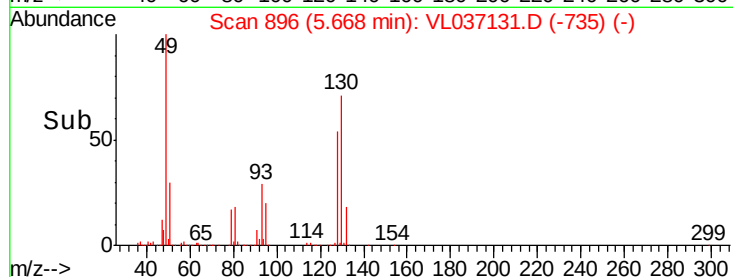
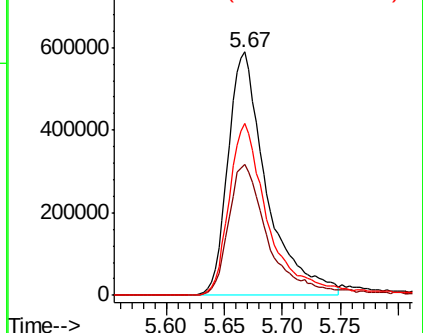
130 74.8 33.8 101.4



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



#2

Dichlorodifluoromethane

Concen: 0.038 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.02 min

Lab File: VL037131.D

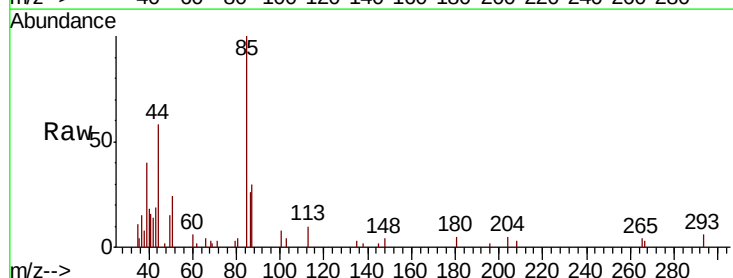
Acq: 8 Jun 2021 14:19

Tgt Ion: 85 Resp: 8689

Ion Ratio Lower Upper

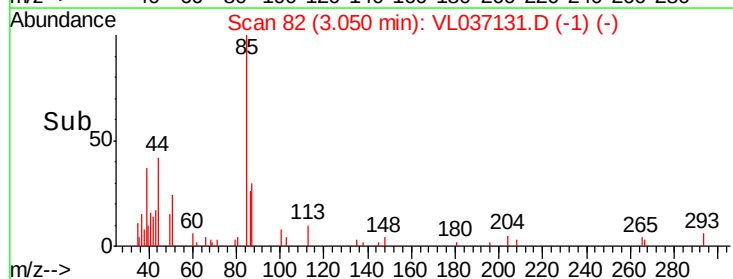
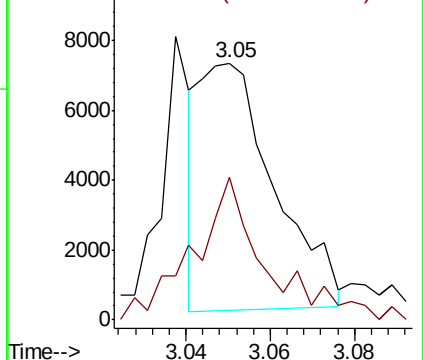
85 100

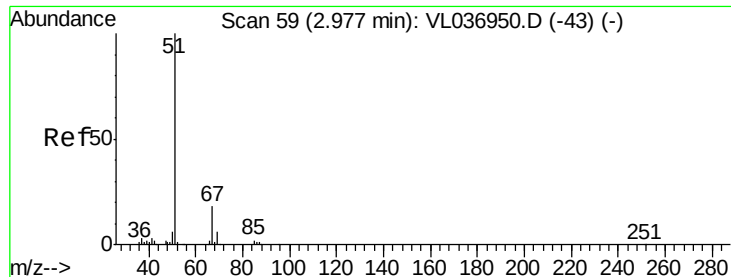
87 56.4 26.6 39.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.215 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL037131.D

Acq: 8 Jun 2021 14:19

Instrument :

MSVOA\_L

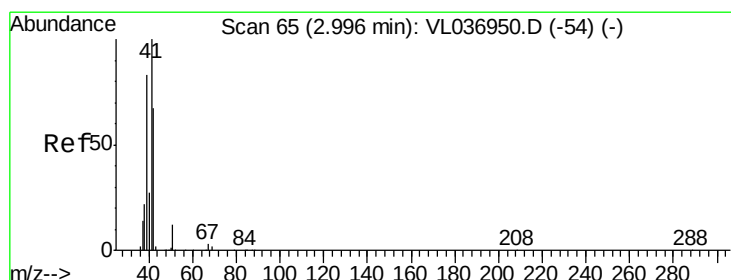
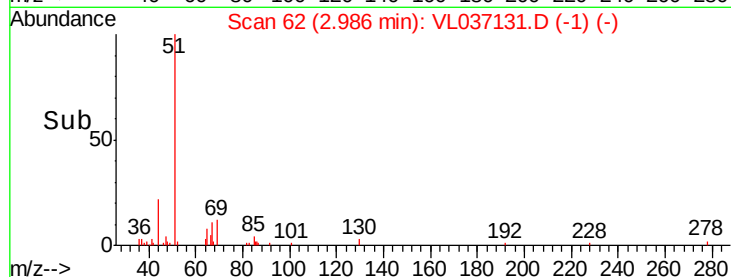
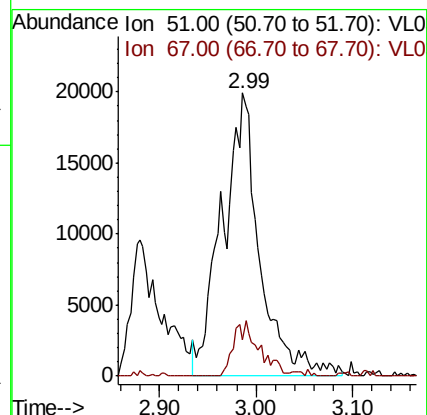
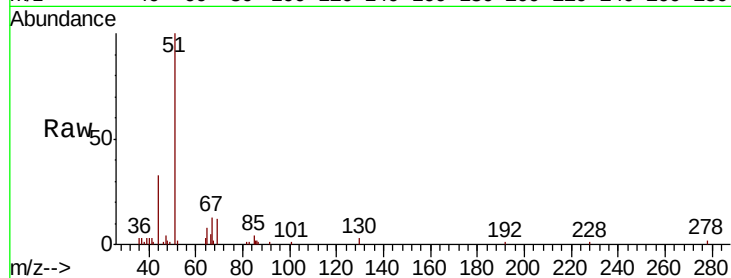
ClientSampleId :

Tot Ion: 51 Resp: 53523

Ion Ratio Lower Upper

51 100

67 13.9 14.6 21.8#



#9

Propene

Concen: 0.103 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.03 min

Lab File: VL037131.D

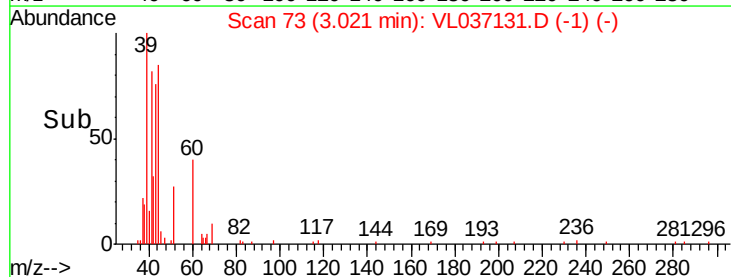
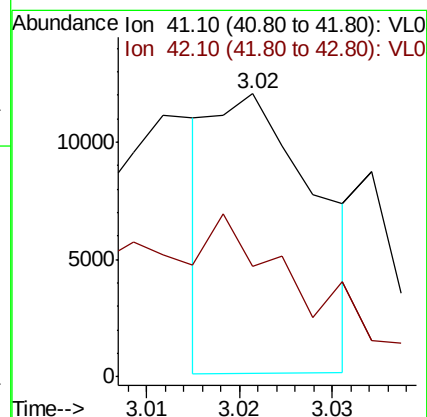
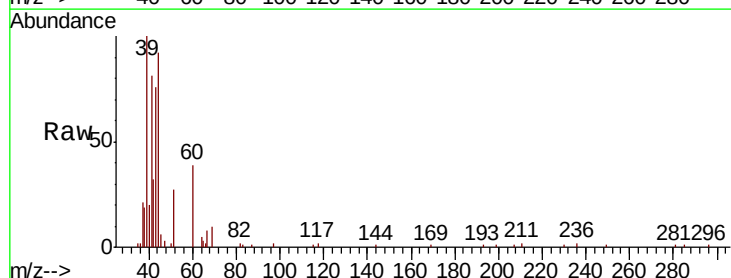
Acq: 8 Jun 2021 14:19

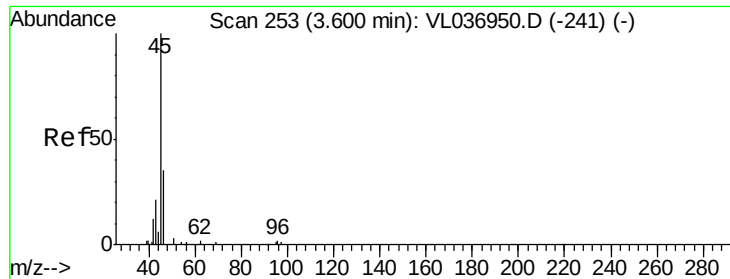
Tgt Ion: 41 Resp: 9134

Ion Ratio Lower Upper

41 100

42 143.9 53.9 80.9#

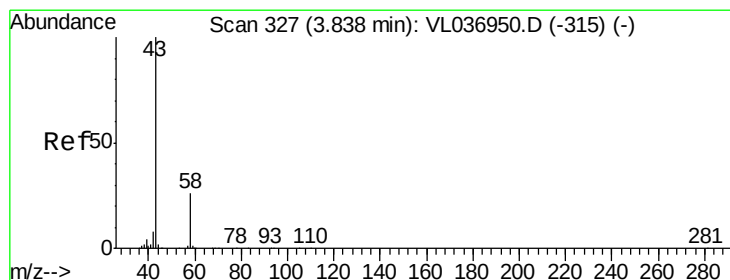
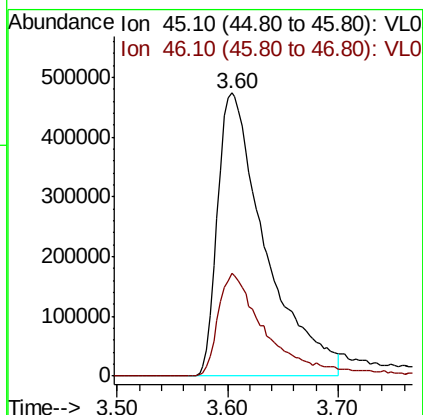
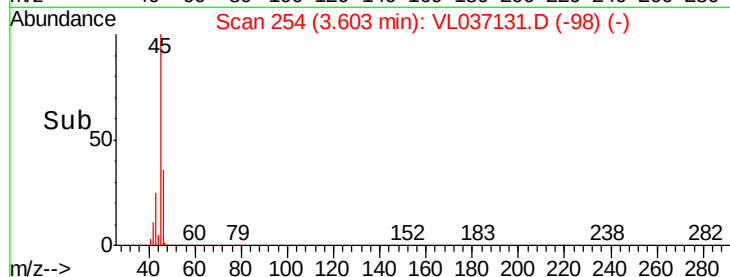
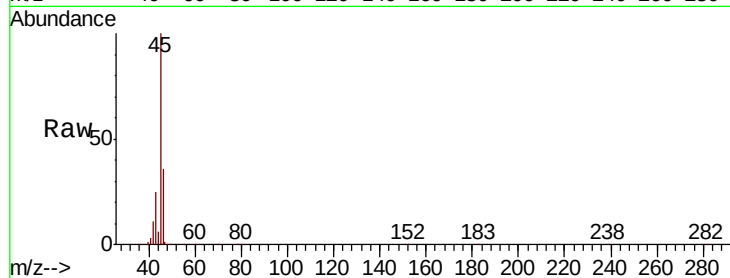




#13  
Ethanol  
Concen: 120.208 ppbv  
RT: 3.60 min Scan# 254  
Delta R.T. 0.00 min  
Lab File: VL037131.D  
Acq: 8 Jun 2021 14:19

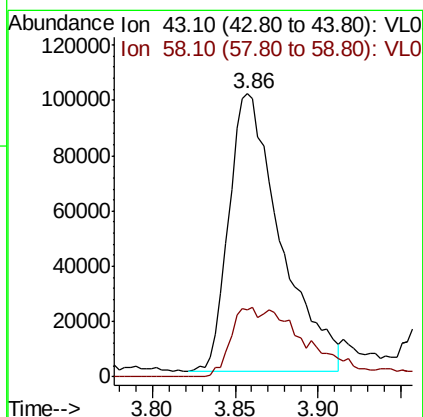
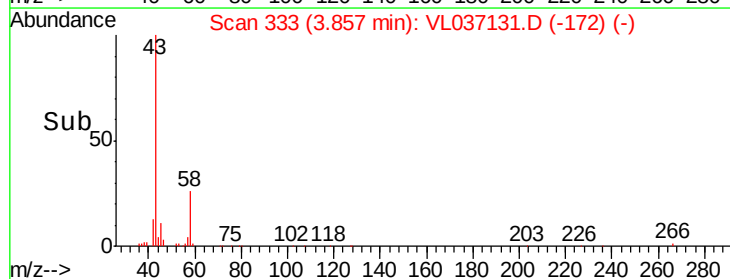
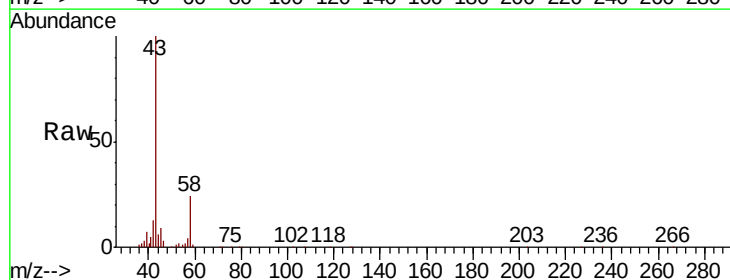
Instrument :  
MSVOA\_L  
ClientSampled :

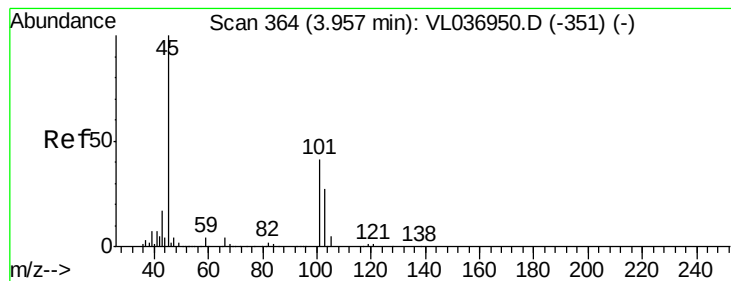
Tot Ion: 45 Resp: 1426709  
Ion Ratio Lower Upper  
45 100  
46 37.2 16.3 65.3



#15  
Acetone  
Concen: 1.579 ppbv  
RT: 3.86 min Scan# 333  
Delta R.T. 0.02 min  
Lab File: VL037131.D  
Acq: 8 Jun 2021 14:19

Tgt Ion: 43 Resp: 219317  
Ion Ratio Lower Upper  
43 100  
58 36.5 24.0 36.0#





#19

Isopropyl Alcohol

Concen: 4.152 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL037131.D

Acq: 8 Jun 2021 14:19

Instrument :

MSVOA\_L

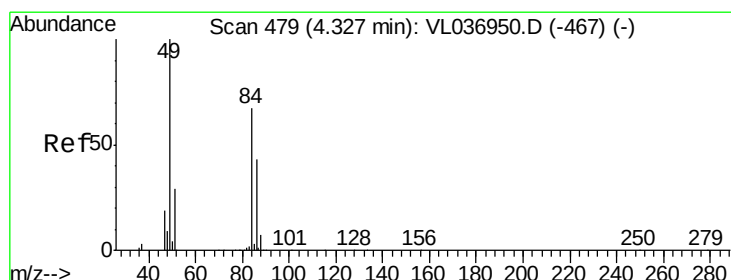
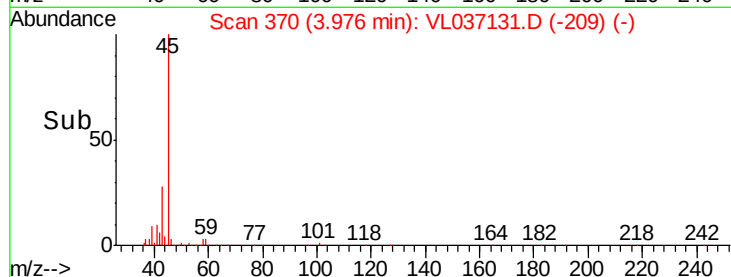
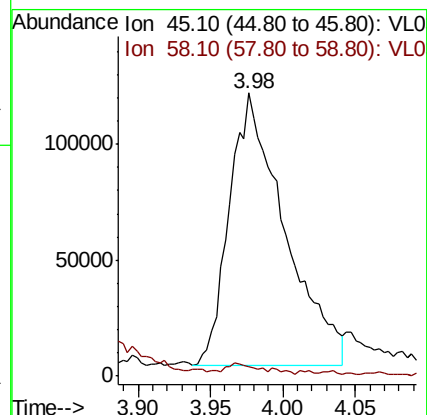
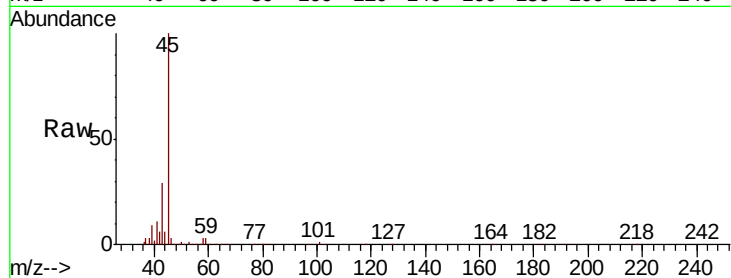
ClientSampled :

Tot Ion: 45 Resp: 309993

Ion Ratio Lower Upper

45 100

58 3.5 37.2 55.8#



#20

Methylene Chloride

Concen: 2.739 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.02 min

Lab File: VL037131.D

Acq: 8 Jun 2021 14:19

Tgt Ion: 84 Resp: 203908

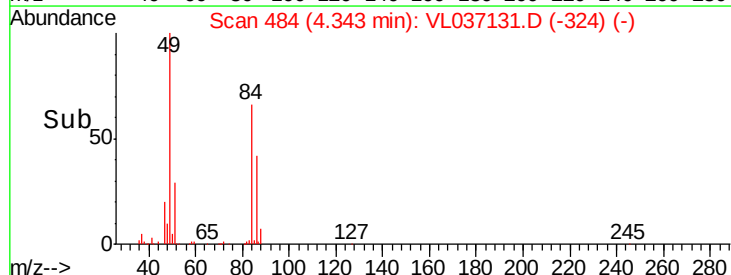
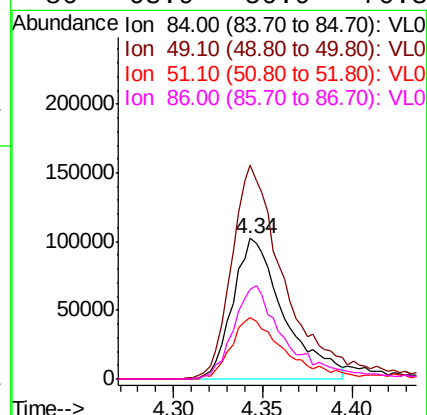
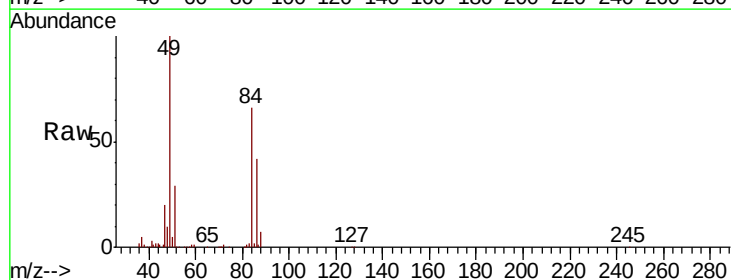
Ion Ratio Lower Upper

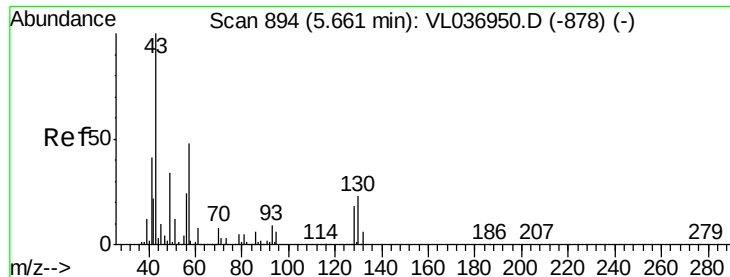
84 100

49 151.2 119.8 179.6

51 43.3 35.1 52.7

86 63.9 50.9 76.3

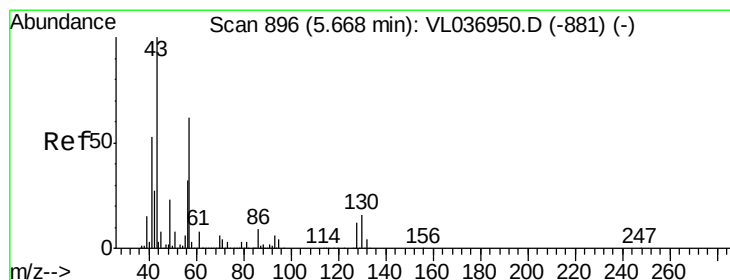
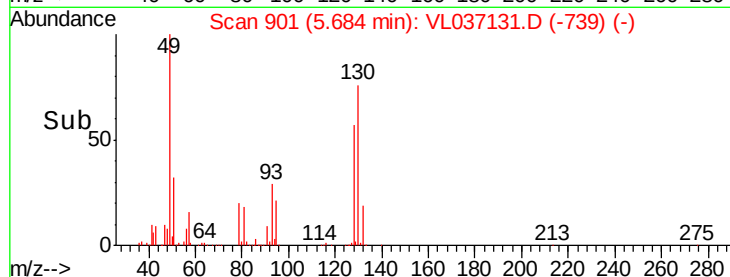
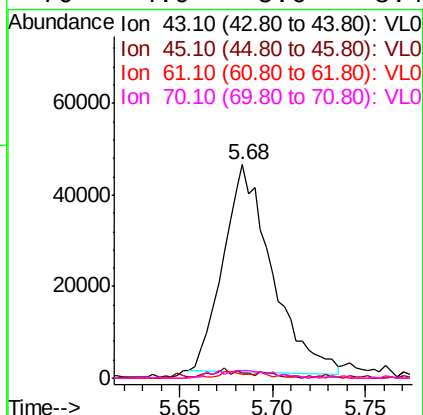
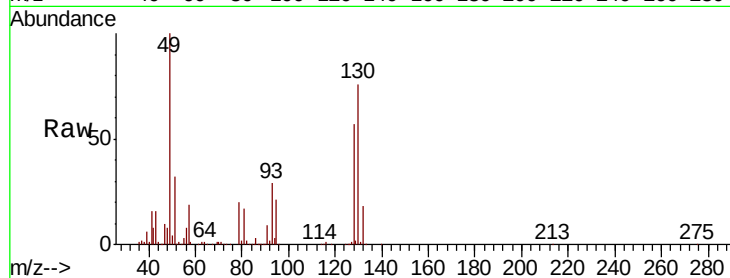




#25  
Ethyl Acetate  
Concen: 0.247 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. 0.02 min  
Lab File: VL037131.D  
Acq: 8 Jun 2021 14:19

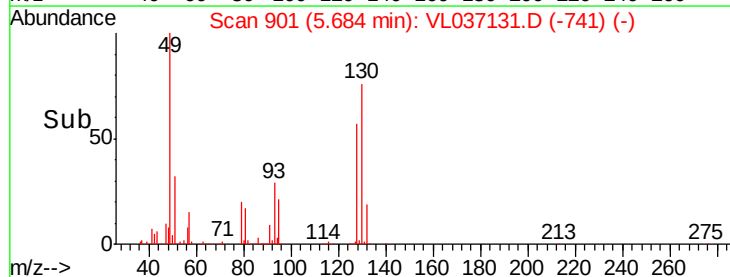
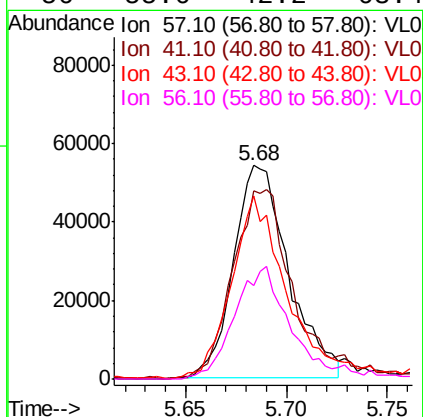
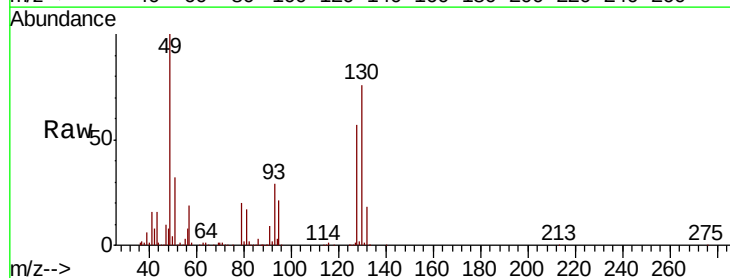
Instrument :  
MSVOA\_L  
ClientSampleId :

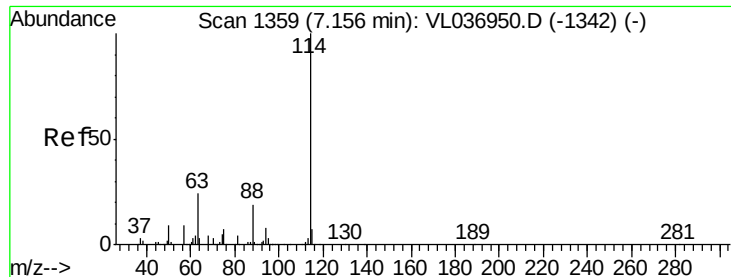
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 82404 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 6.0   | 7.8   | 11.8# |
| 61       | 3.4   | 7.8   | 11.8# |
| 70       | 4.9   | 5.6   | 8.4#  |



#26  
Hexane  
Concen: 0.607 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. 0.02 min  
Lab File: VL037131.D  
Acq: 8 Jun 2021 14:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 103442 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 104.5 | 70.5  | 105.7  |
| 43       | 93.1  | 165.8 | 248.8# |
| 56       | 55.6  | 42.2  | 63.4   |

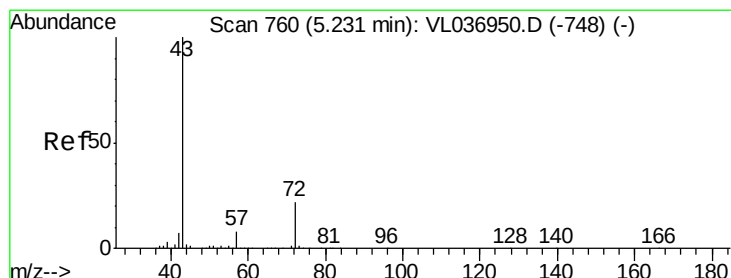
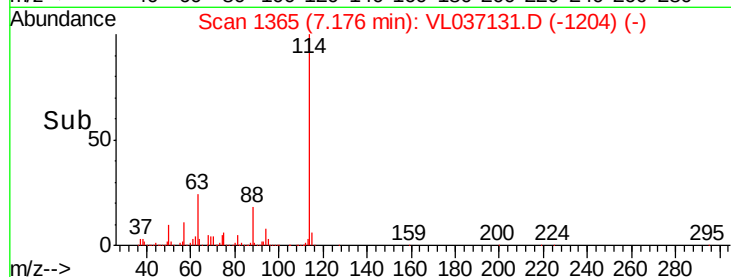
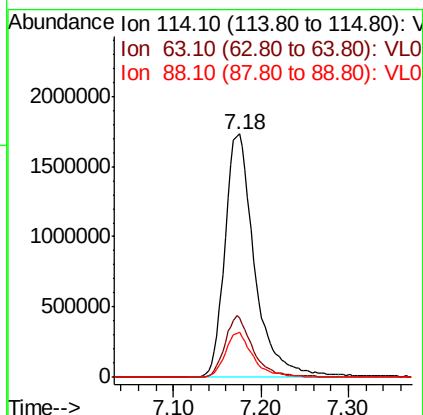
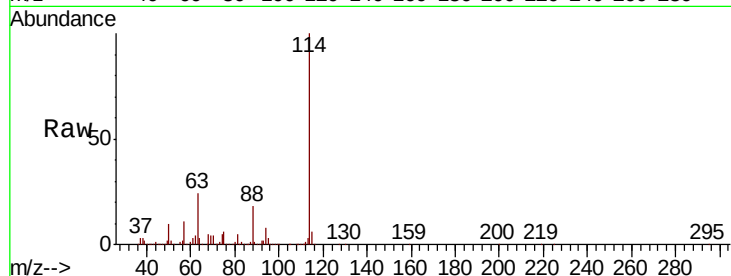




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1365  
 Delta R.T. 0.02 min  
 Lab File: VL037131.D  
 Acq: 8 Jun 2021 14:19

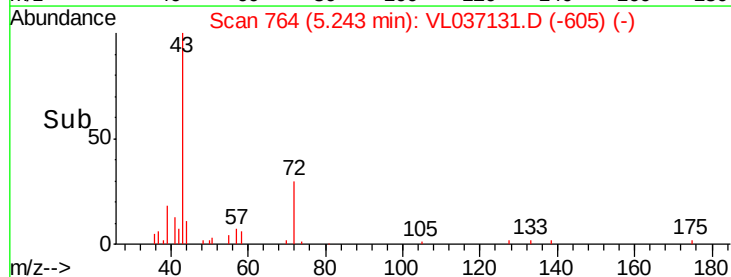
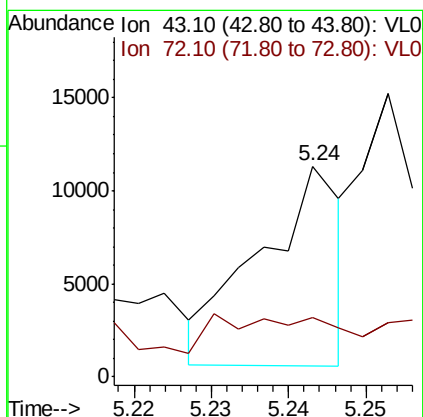
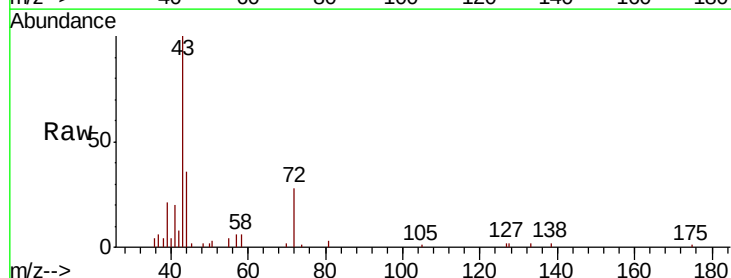
Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion:114 Resp: 4087460  
 Ion Ratio Lower Upper  
 114 100  
 63 24.2 19.6 29.4  
 88 17.7 14.6 21.8

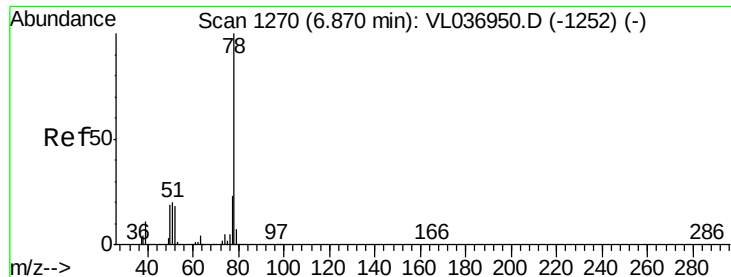


#34  
 2-Butanone  
 Concen: 0.054 ppbv  
 RT: 5.24 min Scan# 764  
 Delta R.T. 0.01 min  
 Lab File: VL037131.D  
 Acq: 8 Jun 2021 14:19

Tgt Ion: 43 Resp: 7968  
 Ion Ratio Lower Upper  
 43 100  
 72 113.5 19.0 28.4#



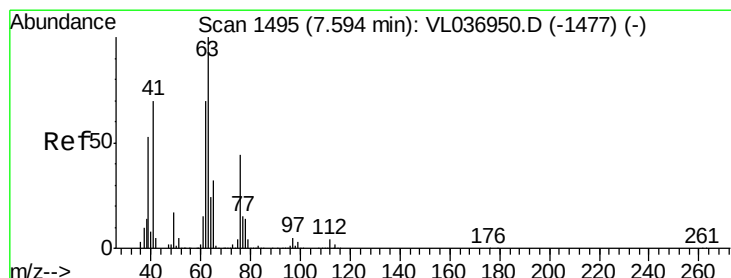
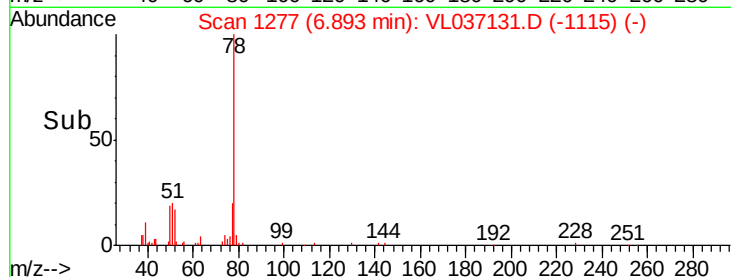
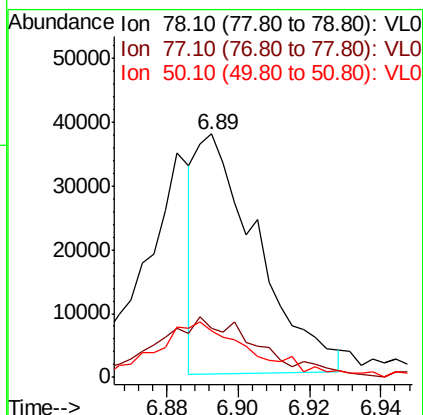
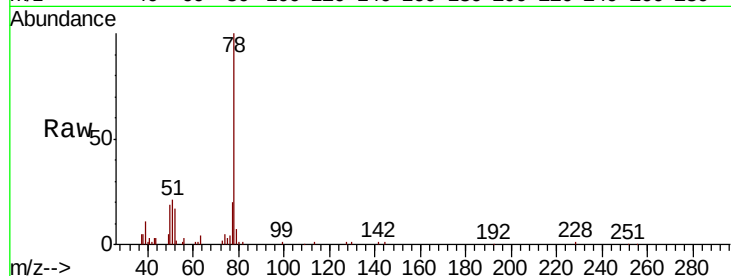




#36  
Benzene  
Concen: 0.127 ppbv  
RT: 6.89 min Scan# 1277  
Delta R.T. 0.02 min  
Lab File: VL037131.D  
Acq: 8 Jun 2021 14:19

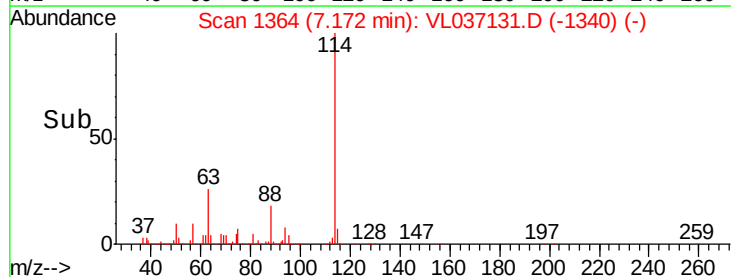
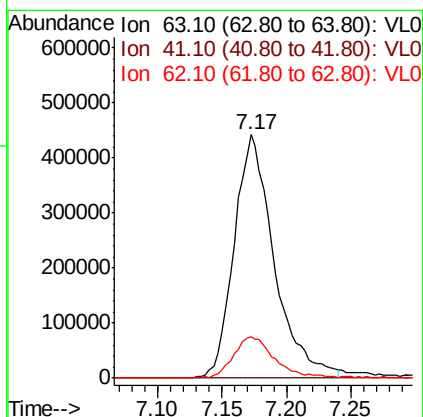
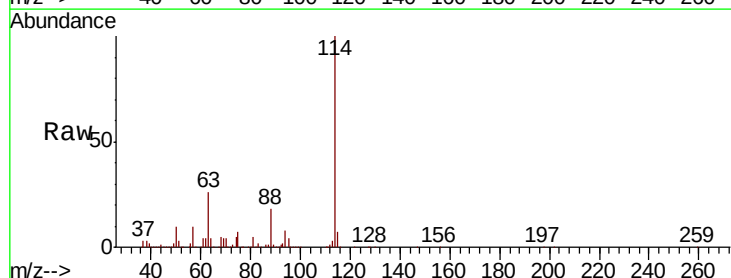
Instrument :  
MSVOA\_L  
ClientSampled :

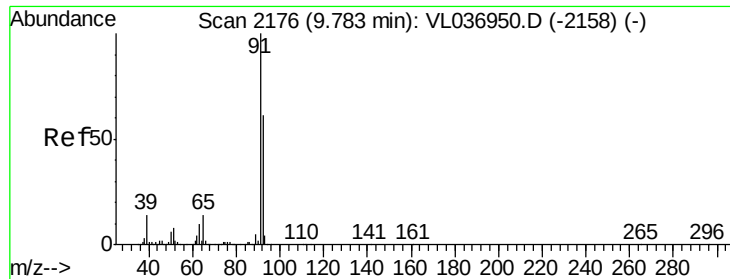
Tot Ion: 78 Resp: 44546  
Ion Ratio Lower Upper  
78 100  
77 19.4 18.6 28.0  
50 18.1 15.0 22.4



#39  
1,2-Dichloropropane  
Concen: 7.035 ppbv  
RT: 7.17 min Scan# 1364  
Delta R.T. -0.42 min  
Lab File: VL037131.D  
Acq: 8 Jun 2021 14:19

Tgt Ion: 63 Resp: 954163  
Ion Ratio Lower Upper  
63 100  
41 0.0 55.7 83.5#  
62 17.2 56.2 84.4#





#53

Toluene

Concen: 0.033 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.03 min

Lab File: VL037131.D

Acq: 8 Jun 2021 14:19

Instrument :

MSVOA\_L

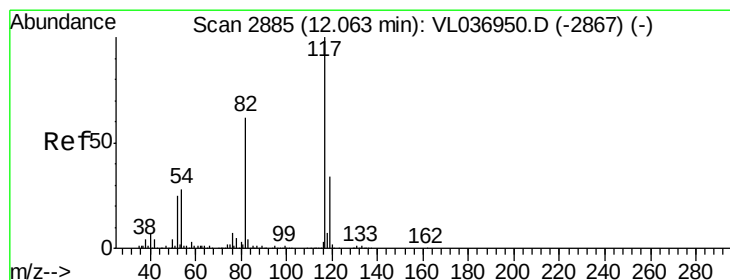
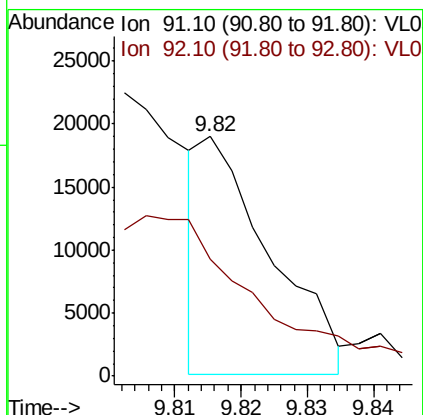
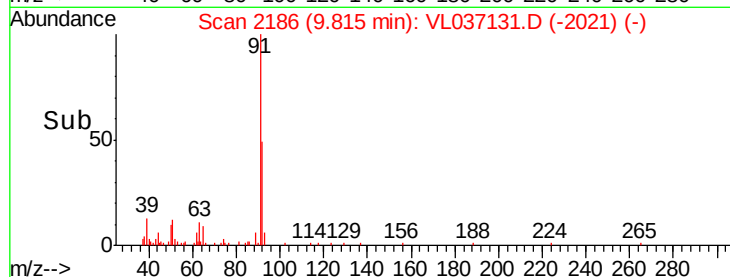
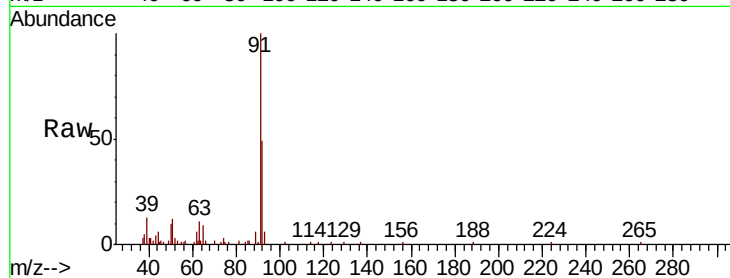
ClientSampled :

Tot Ion: 91 Resp: 13667

Ion Ratio Lower Upper

91 100

92 0.0 49.5 74.3#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. 0.02 min

Lab File: VL037131.D

Acq: 8 Jun 2021 14:19

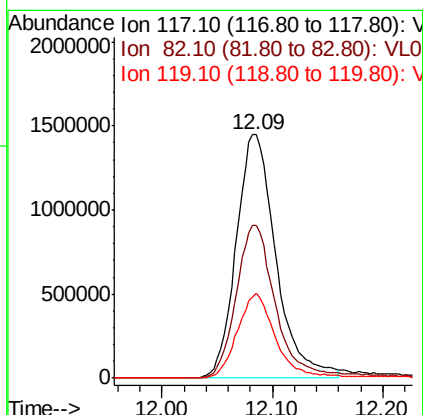
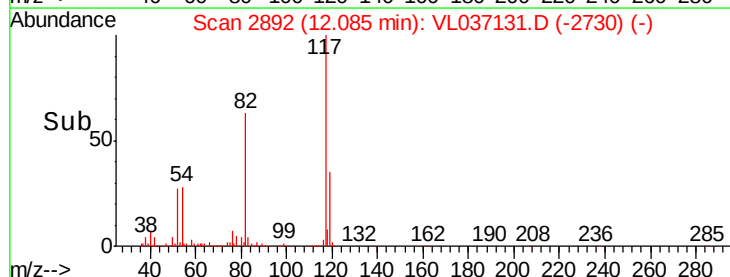
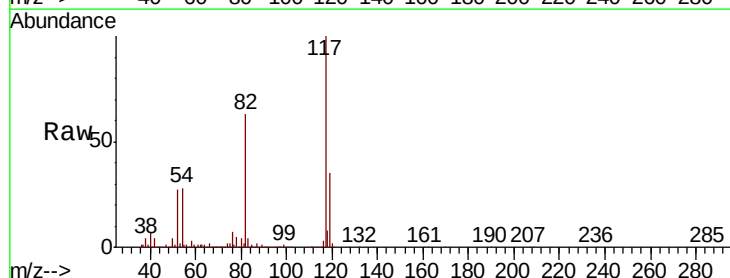
Tgt Ion: 117 Resp: 3621744

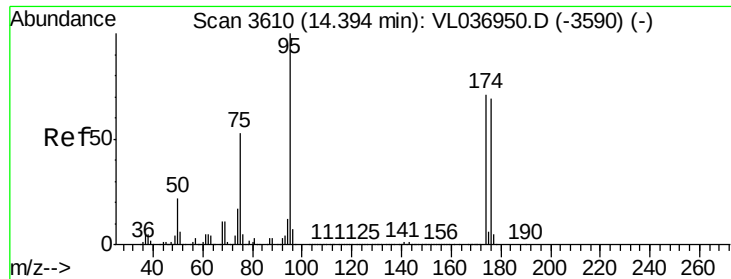
Ion Ratio Lower Upper

117 100

82 63.9 52.6 79.0

119 33.8 46.6 70.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.001 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. 0.02 min

Lab File: VL037131.D

Acq: 8 Jun 2021 14:19

Instrument :

MSVOA\_L

ClientSampleId :

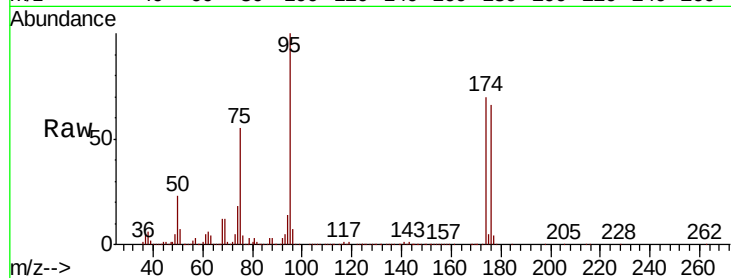
Tot Ion: 95 Resp: 2720941

Ion Ratio Lower Upper

95 100

174 74.1 58.4 87.6

175 5.7 4.4 6.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

