

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\  
 Data File : VL036552.D  
 Acq On : 29 Mar 2021 23:37  
 Operator : SY/AP  
 Sample : VIBLK  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Mar 30 06:44:12 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Mar 25 09:42:40 2021  
 QLast Update : Thu Mar 25 09:42:40 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1461933  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 3339936  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 2957030  | 10.00 | ppbv  | -0.03    |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2313102  | 9.81     | ppbv | -0.03  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.10% |

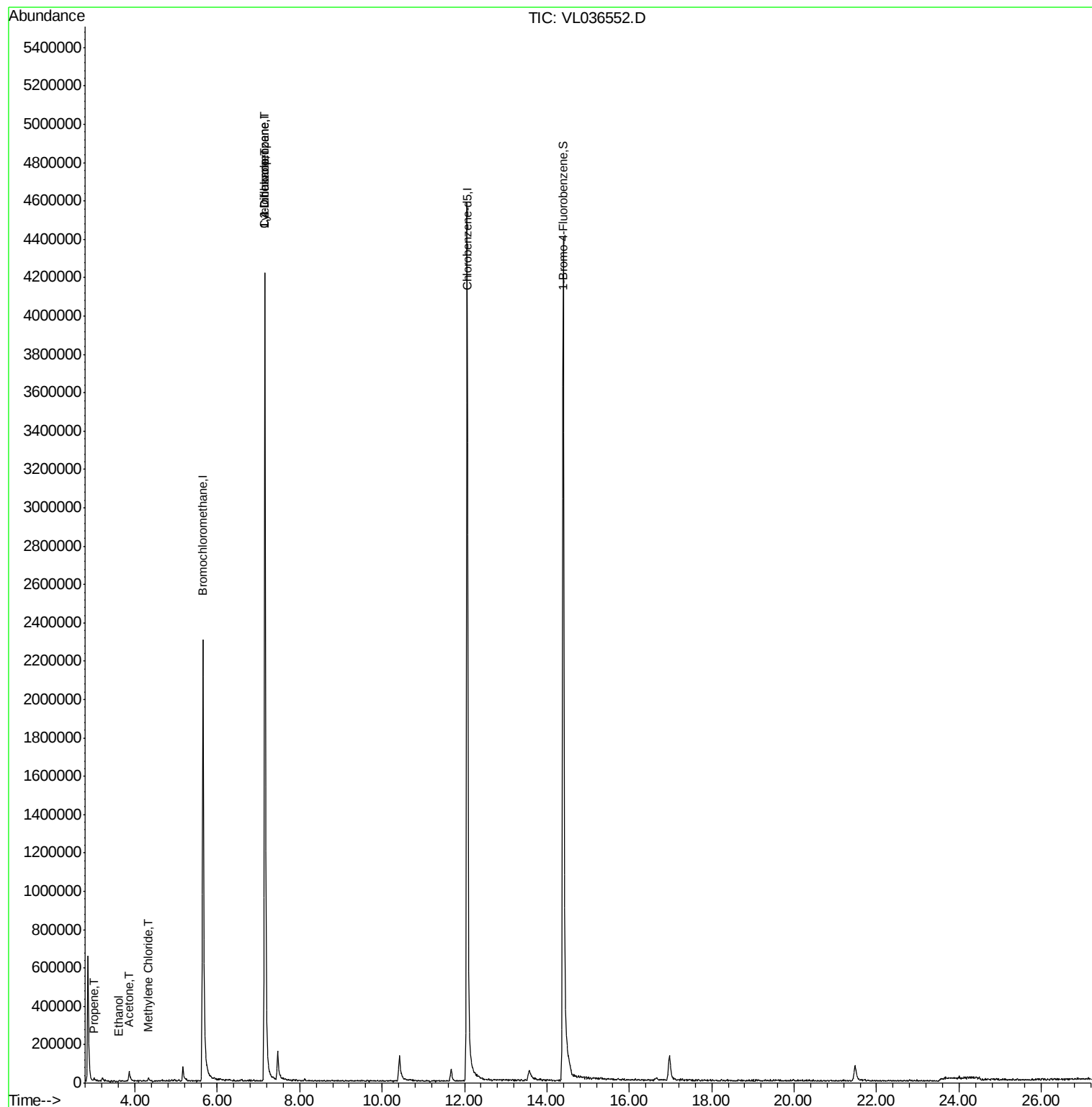
| Target Compounds        | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|------|------|----------|-------|--------|--------|
| 9) Propene              | 3.00 | 41   | 1938     | 0.022 | ppbv # | 14     |
| 13) Ethanol             | 3.60 | 45   | 339      | 0.033 | ppbv # | 34     |
| 15) Acetone             | 3.85 | 43   | 29088    | 0.202 | ppbv # | 48     |
| 20) Methylene Chloride  | 4.33 | 84   | 4808     | 0.071 | ppbv # | 70     |
| 30) Cyclohexane         | 7.14 | 84   | 8769     | 0.068 | ppbv # | 1      |
| 39) 1,2-Dichloropropane | 7.15 | 63   | 911029   | 7.291 | ppbv # | 24     |

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

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QLast Update : Thu Mar 25 09:42:40 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL036552.D

Acq: 29 Mar 2021 23:37

Instrument :

MSVOA\_L

ClientSampled :

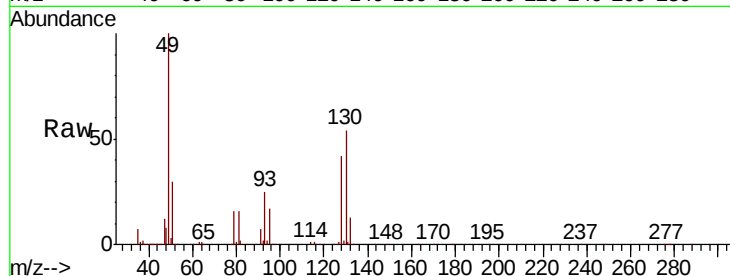
Tot Ion: 49 Resp: 1461933

Ion Ratio Lower Upper

49 100

128 43.9 23.5 70.6

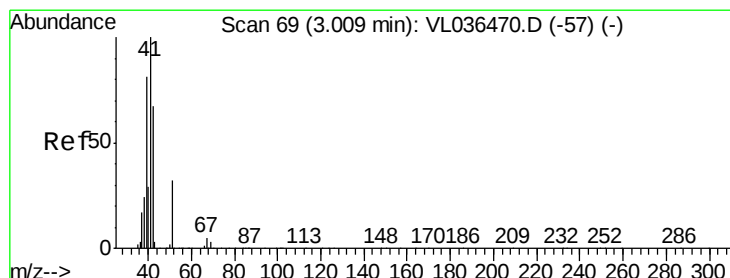
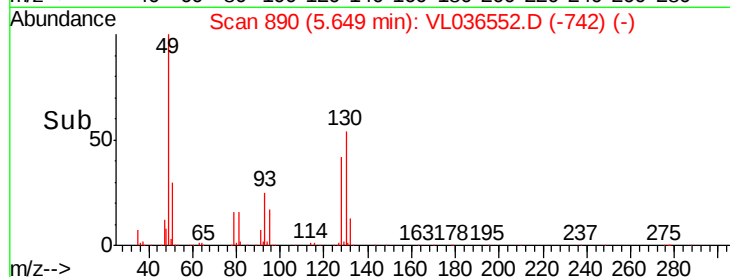
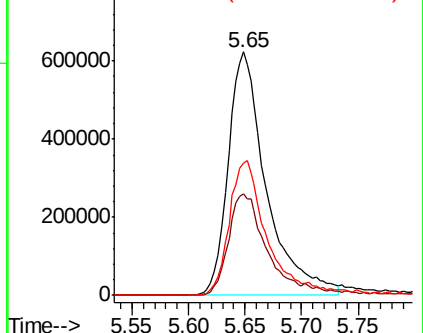
130 57.4 29.1 87.4



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



#9

Propene

Concen: 0.022 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL036552.D

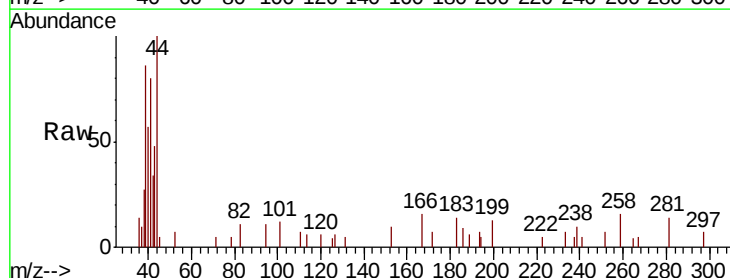
Acq: 29 Mar 2021 23:37

Tgt Ion: 41 Resp: 1938

Ion Ratio Lower Upper

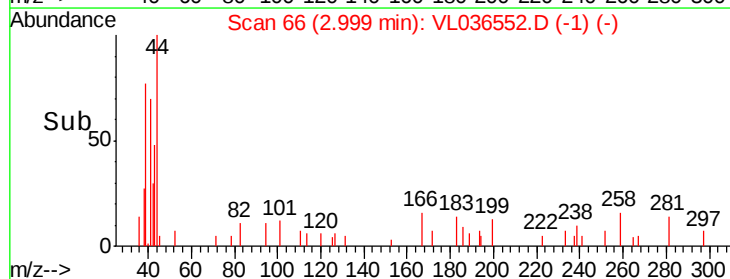
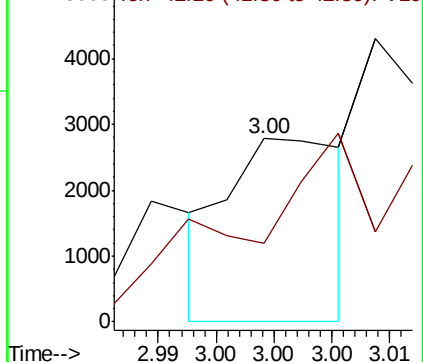
41 100

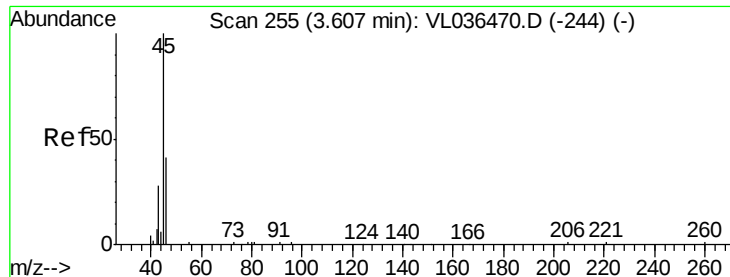
42 0.0 57.0 85.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

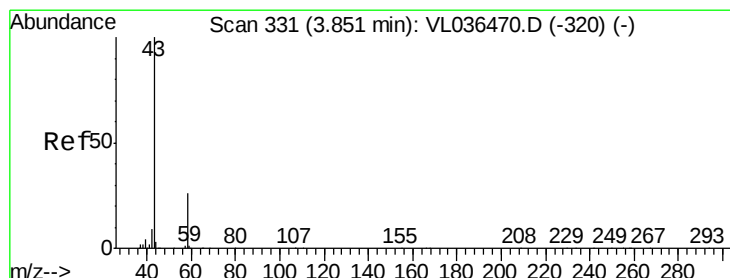
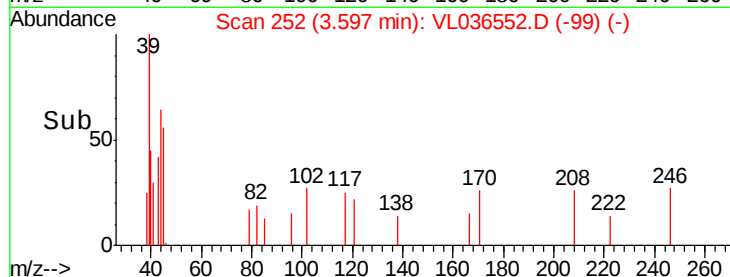
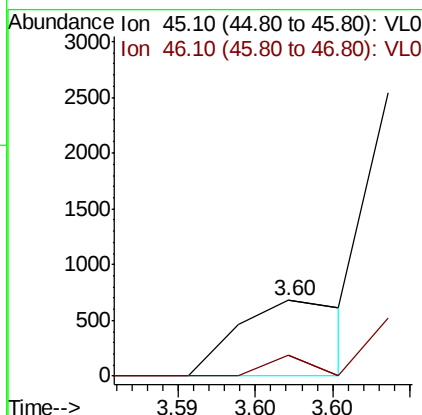
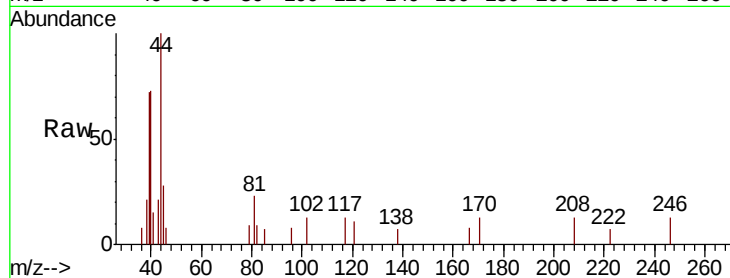




#13  
Ethanol  
Concen: 0.033 ppbv  
RT: 3.60 min Scan# 252  
Delta R.T. -0.01 min  
Lab File: VL036552.D  
Acq: 29 Mar 2021 23:37

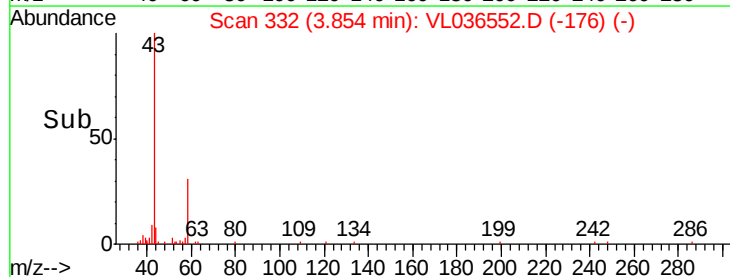
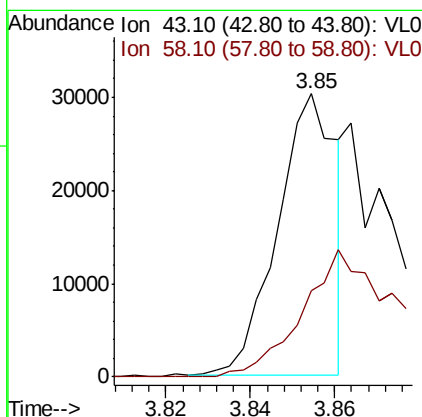
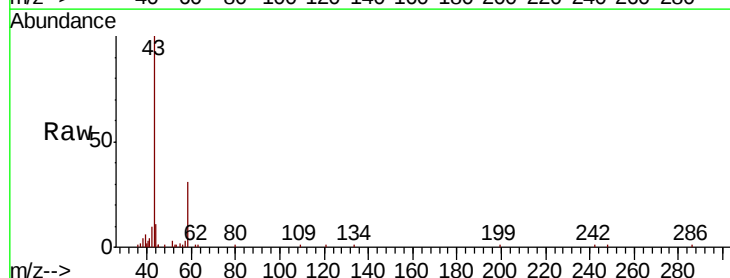
Instrument :  
MSVOA\_L  
ClientSampleId :

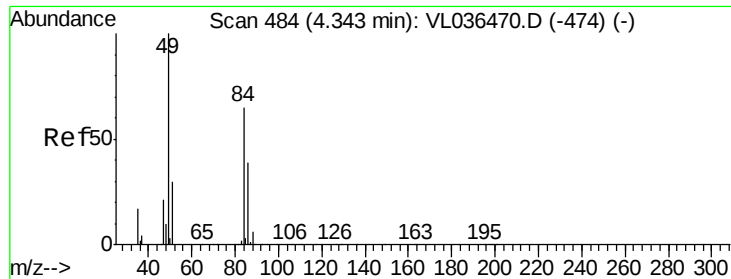
Tot Ion: 45 Resp: 339  
Ion Ratio Lower Upper  
45 100  
46 0.0 16.6 66.2#



#15  
Acetone  
Concen: 0.202 ppbv  
RT: 3.85 min Scan# 332  
Delta R.T. 0.00 min  
Lab File: VL036552.D  
Acq: 29 Mar 2021 23:37

Tgt Ion: 43 Resp: 29088  
Ion Ratio Lower Upper  
43 100  
58 0.0 21.2 31.8#

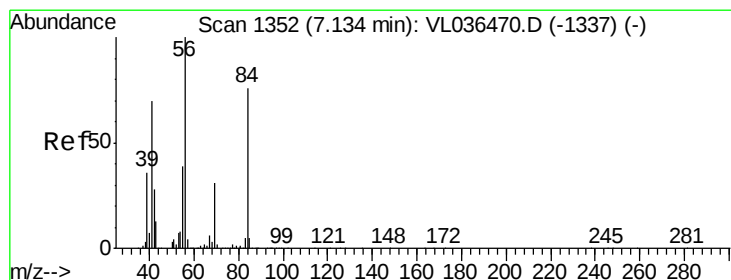
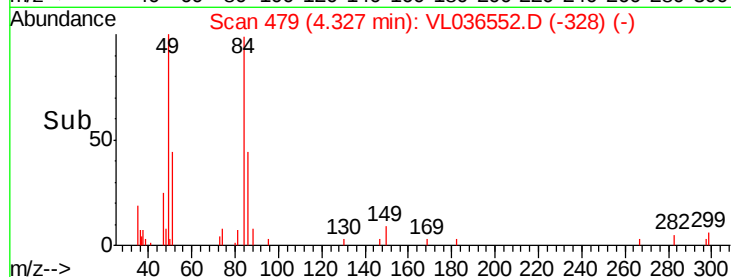
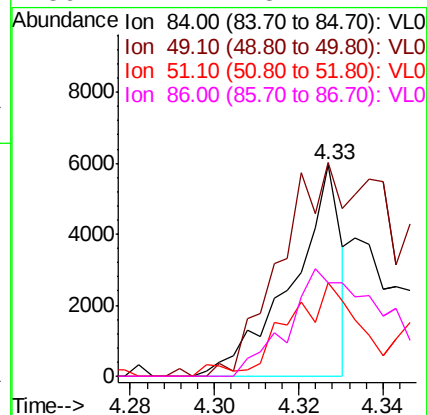
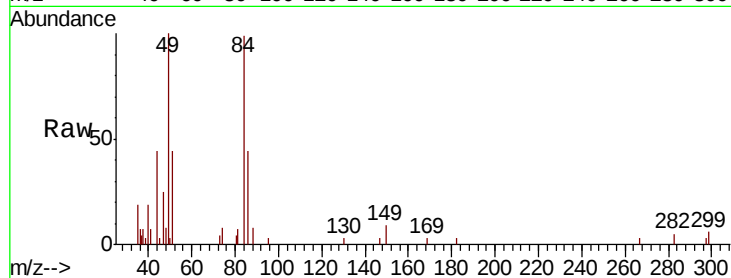




#20  
Methylene Chloride  
Concen: 0.071 ppbv  
RT: 4.33 min Scan# 479  
Delta R.T. -0.02 min  
Lab File: VL036552.D  
Acq: 29 Mar 2021 23:37

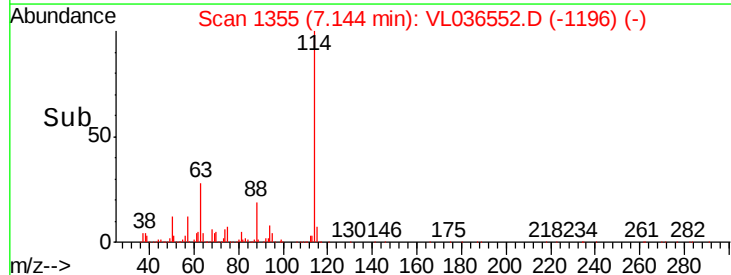
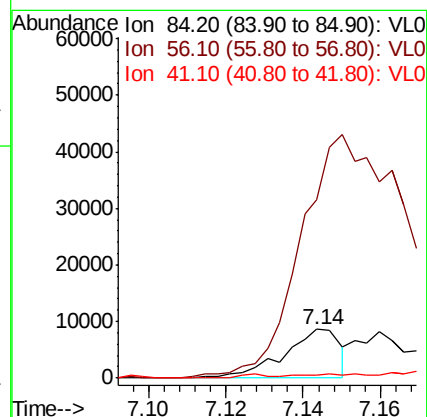
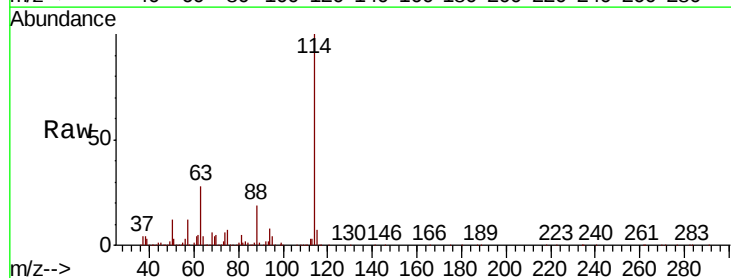
Instrument :  
MSVOA\_L  
ClientSampleId :

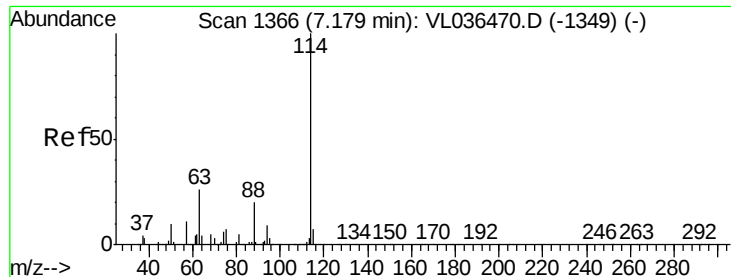
Tot Ion: 84 Resp: 4808  
Ion Ratio Lower Upper  
84 100  
49 100.9 122.9 184.3#  
51 44.0 36.9 55.3  
86 44.4 48.2 72.4#



#30  
Cyclohexane  
Concen: 0.068 ppbv  
RT: 7.14 min Scan# 1355  
Delta R.T. 0.01 min  
Lab File: VL036552.D  
Acq: 29 Mar 2021 23:37

Tgt Ion: 84 Resp: 8769  
Ion Ratio Lower Upper  
84 100  
56 0.0 114.6 171.8#  
41 7.6 75.3 112.9#

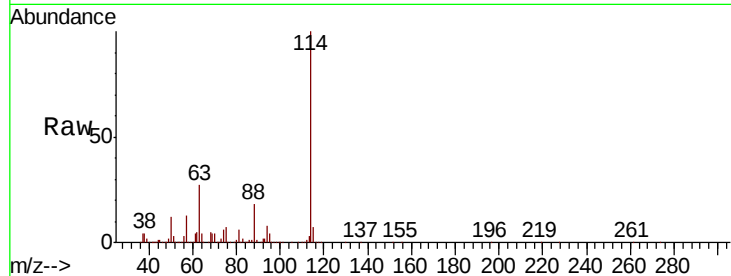




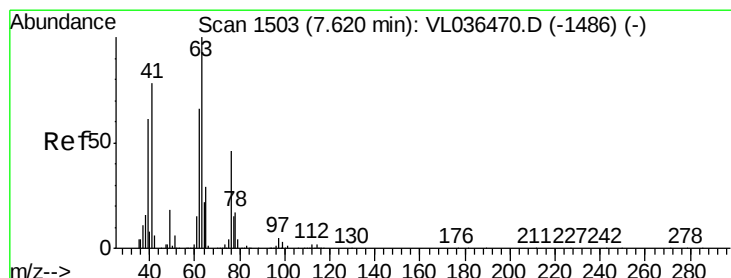
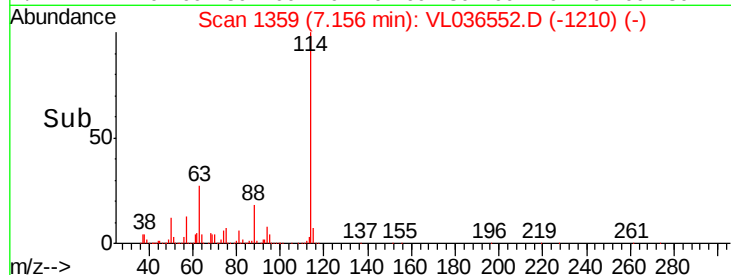
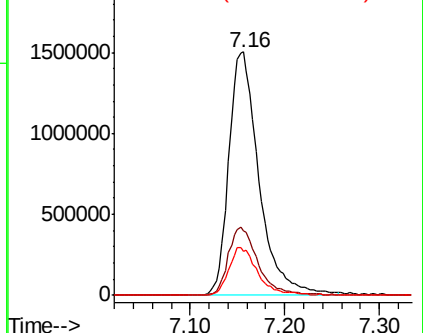
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.16 min Scan# 1359  
 Delta R.T. -0.02 min  
 Lab File: VL036552.D  
 Acq: 29 Mar 2021 23:37

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion:114 Resp: 3339936  
 Ion Ratio Lower Upper  
 114 100  
 63 28.0 22.4 33.6  
 88 19.0 15.4 23.0

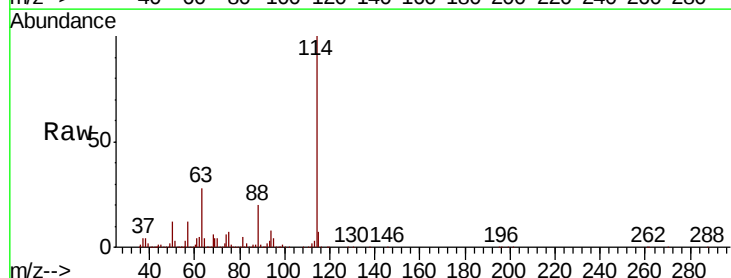


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

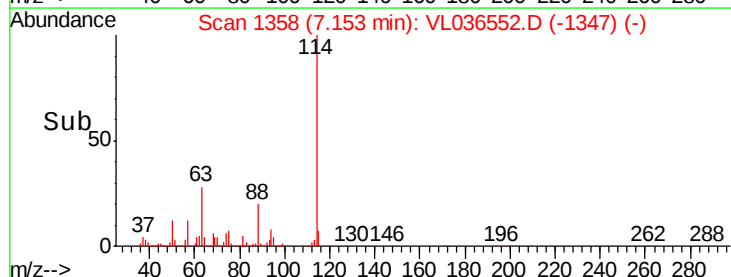
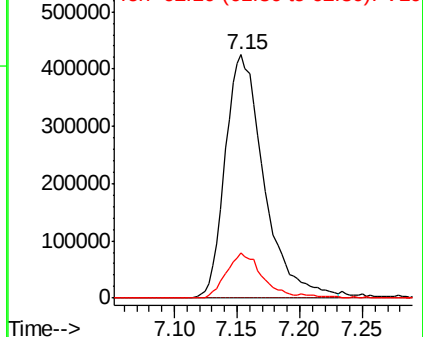


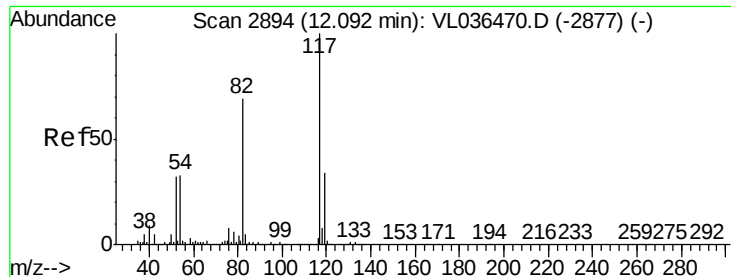
#39  
 1,2-Dichloropropane  
 Concen: 7.291 ppbv  
 RT: 7.15 min Scan# 1358  
 Delta R.T. -0.47 min  
 Lab File: VL036552.D  
 Acq: 29 Mar 2021 23:37

Tgt Ion: 63 Resp: 911029  
 Ion Ratio Lower Upper  
 63 100  
 41 0.2 62.4 93.6#  
 62 18.6 52.8 79.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0  
 Ion 41.10 (40.80 to 41.80): VL0  
 Ion 62.10 (61.80 to 62.80): VL0

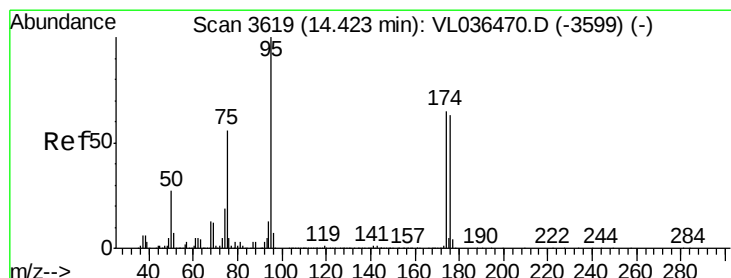
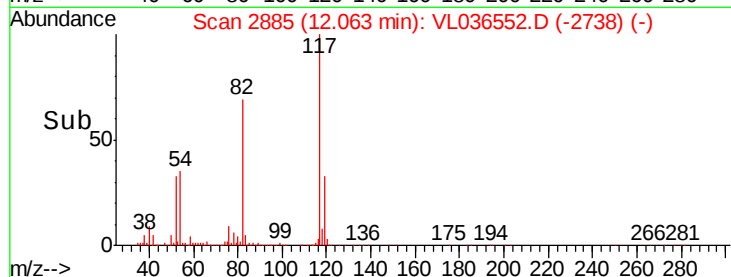
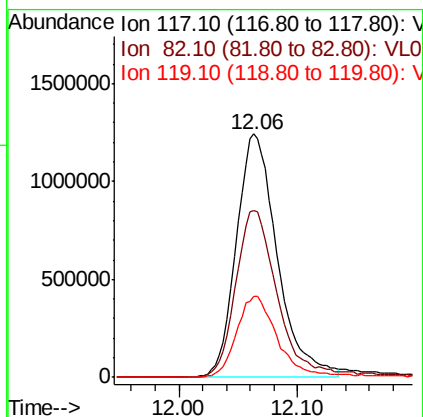
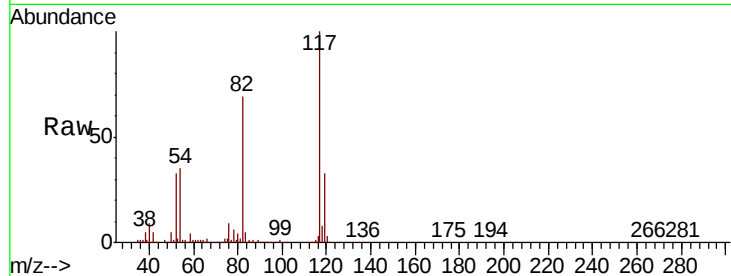




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.06 min Scan# 2885  
Delta R.T. -0.03 min  
Lab File: VL036552.D  
Acq: 29 Mar 2021 23:37

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion:117 Resp: 2957030  
Ion Ratio Lower Upper  
117 100  
82 71.8 57.4 86.0  
119 34.5 47.4 71.0#



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.815 ppbv  
RT: 14.39 min Scan# 3609  
Delta R.T. -0.03 min  
Lab File: VL036552.D  
Acq: 29 Mar 2021 23:37

Tgt Ion: 95 Resp: 2313102  
Ion Ratio Lower Upper  
95 100  
174 67.5 51.0 76.6  
175 4.9 3.9 5.9

