

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031921\  
 Data File : VL036459.D  
 Acq On : 19 Mar 2021 23:25  
 Operator :  
 Sample : OC031821 CAN 10045  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Mar 20 00:43:10 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030321AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Mar 03 14:18:24 2021  
 QLast Update : Wed Mar 03 14:18:24 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.64  | 49   | 1594097  | 10.00 | ppbv  | -0.04    |
| 33) 1,4-Difluorobenzene | 7.14  | 114  | 3591102  | 10.00 | ppbv  | -0.04    |
| 55) Chlorobenzene-d5    | 12.05 | 117  | 3293548  | 10.00 | ppbv  | -0.04    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.38  | 95    | 2658430  | 9.82     | ppbv | -0.04  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.20% |

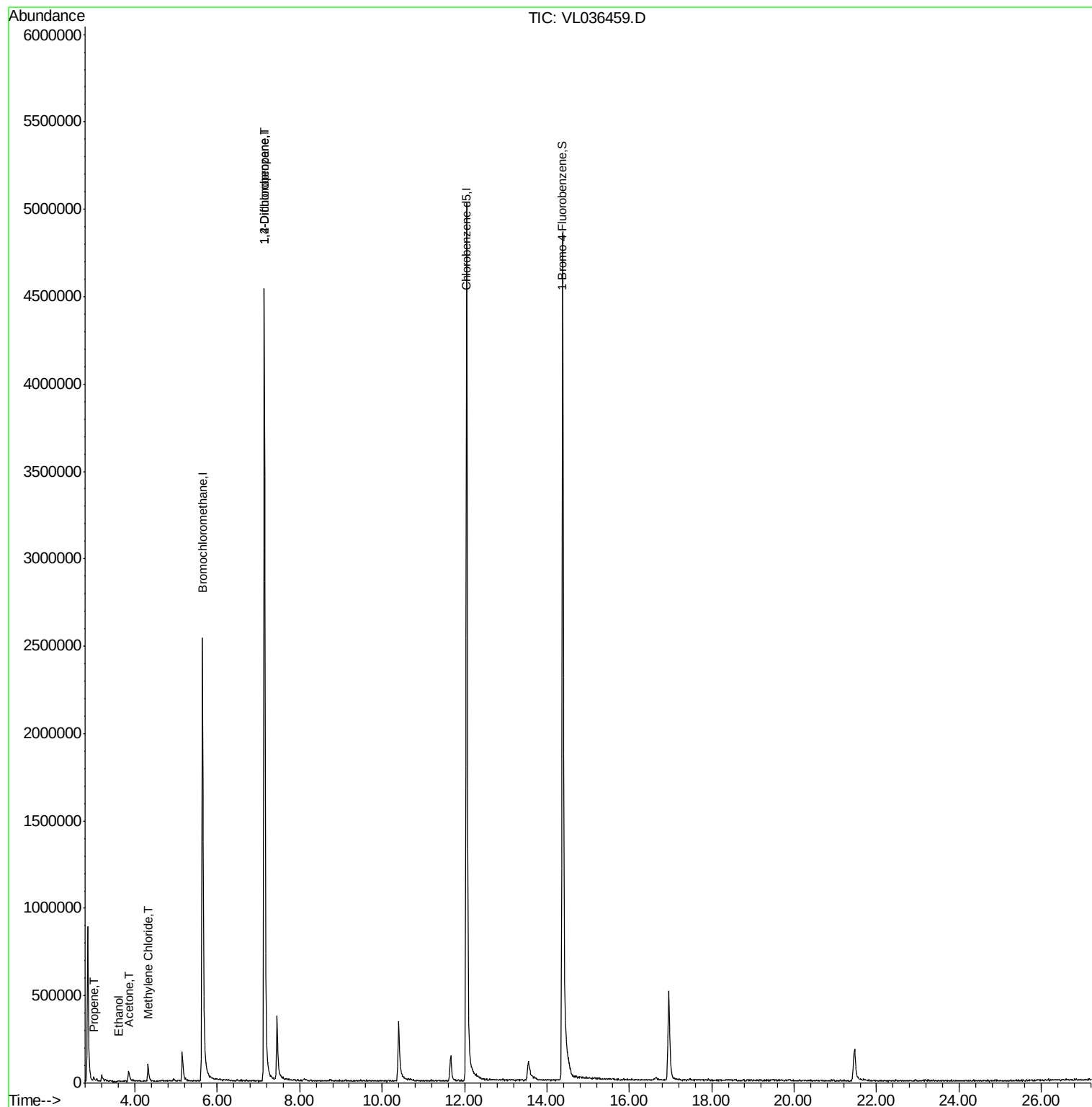
| Target Compounds        |      |    |         |              | Ovalue |
|-------------------------|------|----|---------|--------------|--------|
| 9) Propene              | 3.00 | 41 | 7453    | 0.091 ppbv   | 94     |
| 13) Ethanol             | 3.60 | 45 | 1709    | 0.136 ppbv # | 34     |
| 15) Acetone             | 3.85 | 43 | 50756   | 0.279 ppbv # | 1      |
| 20) Methylene Chloride  | 4.32 | 84 | 31674   | 0.516 ppbv # | 90     |
| 39) 1,2-Dichloropropane | 7.14 | 63 | 1001407 | 8.451 ppbv # | 22     |

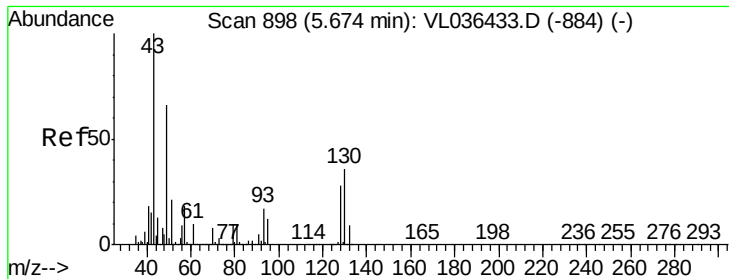
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030321AIR.M  
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QLast Update : Wed Mar 03 14:18:24 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.04 min

Lab File: VL036459.D

Acq: 19 Mar 2021 23:25

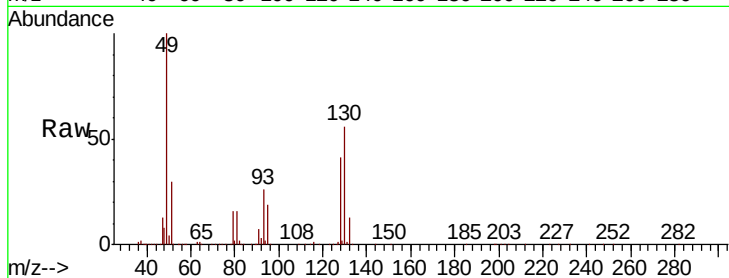
Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 49 Resp: 1594097

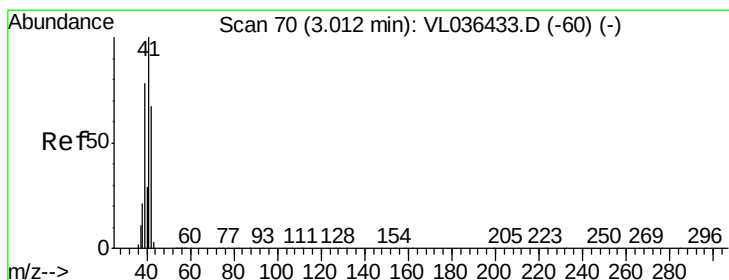
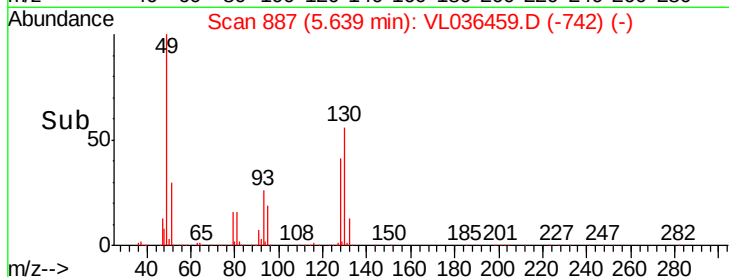
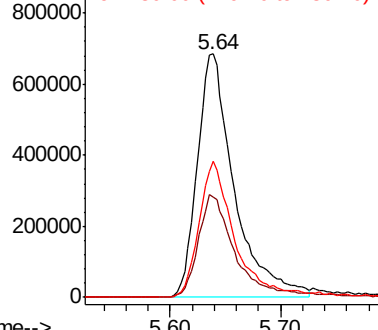
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 42.9  | 22.4  | 67.2  |
| 130 | 55.4  | 28.0  | 84.0  |



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: 0.091 ppbv

RT: 3.00 min Scan# 66

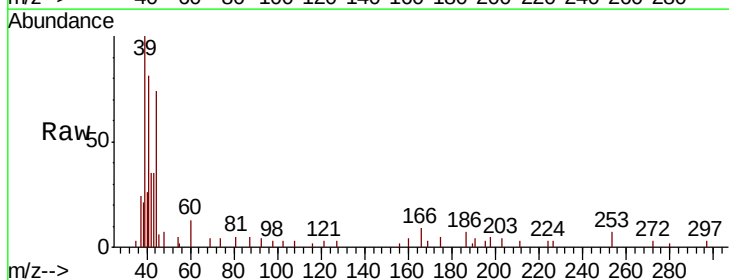
Delta R.T. -0.01 min

Lab File: VL036459.D

Acq: 19 Mar 2021 23:25

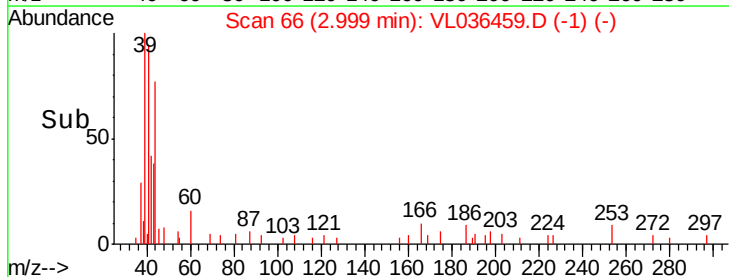
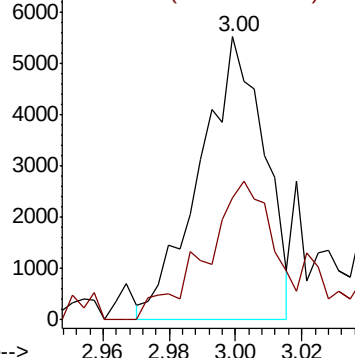
Tgt Ion: 41 Resp: 7453

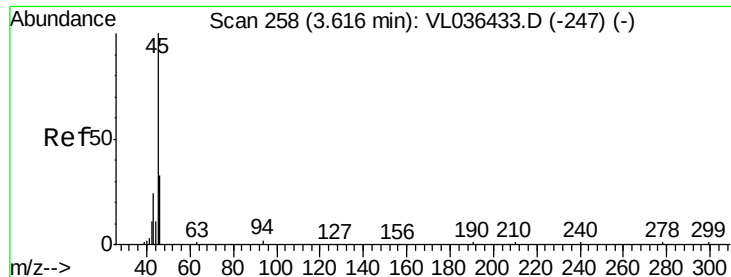
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 42  | 74.9  | 56.2  | 84.4  |



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

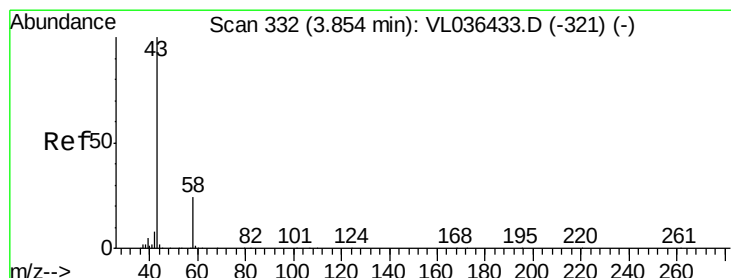
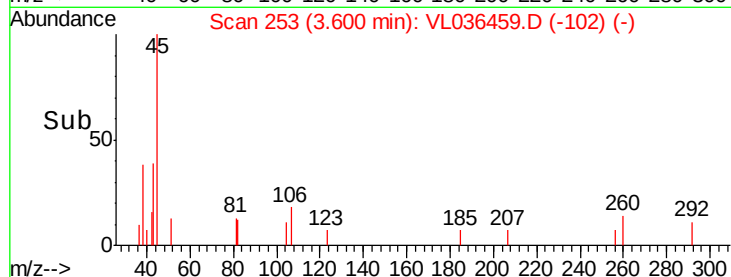
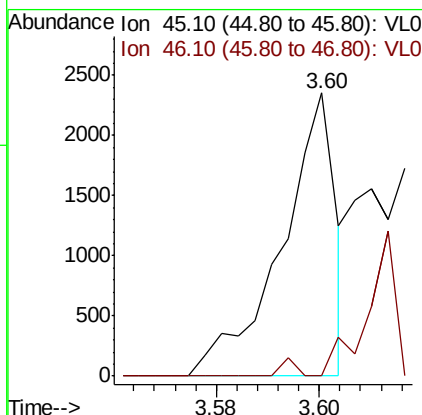
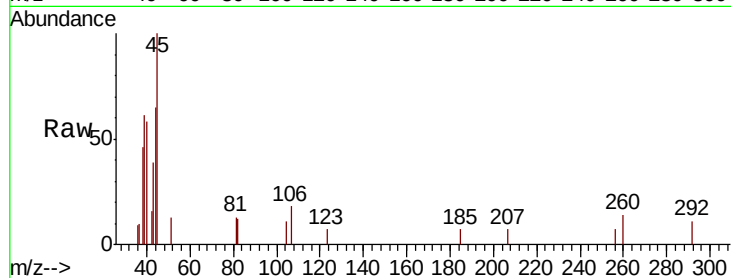




#13  
Ethanol  
Concen: 0.136 ppbv  
RT: 3.60 min Scan# 253  
Delta R.T. -0.02 min  
Lab File: VL036459.D  
Acq: 19 Mar 2021 23:25

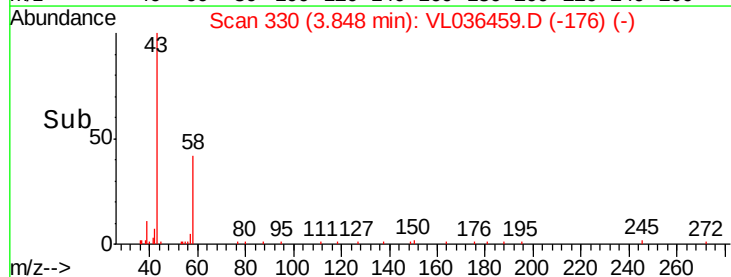
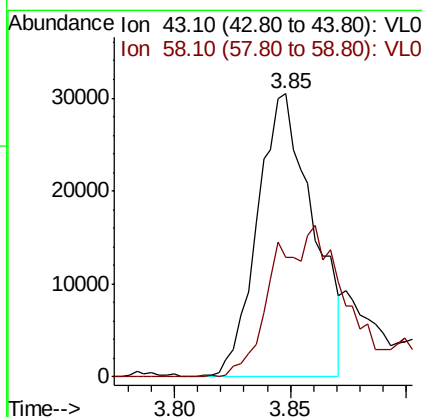
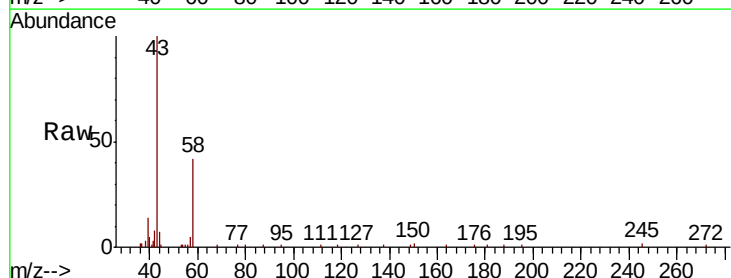
Instrument :  
MSVOA\_L  
ClientSampled :

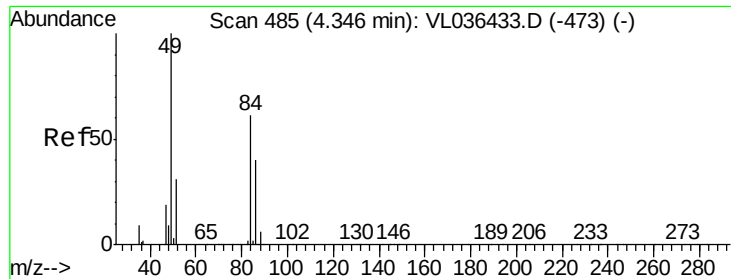
Tot Ion: 45 Resp: 1709  
Ion Ratio Lower Upper  
45 100  
46 0.0 16.8 67.4#



#15  
Acetone  
Concen: 0.279 ppbv  
RT: 3.85 min Scan# 330  
Delta R.T. -0.01 min  
Lab File: VL036459.D  
Acq: 19 Mar 2021 23:25

Tgt Ion: 43 Resp: 50756  
Ion Ratio Lower Upper  
43 100  
58 83.1 21.0 31.6#

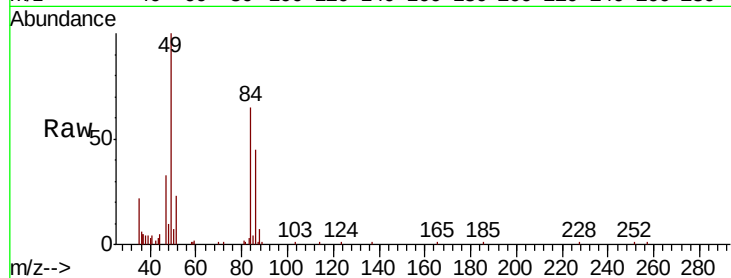




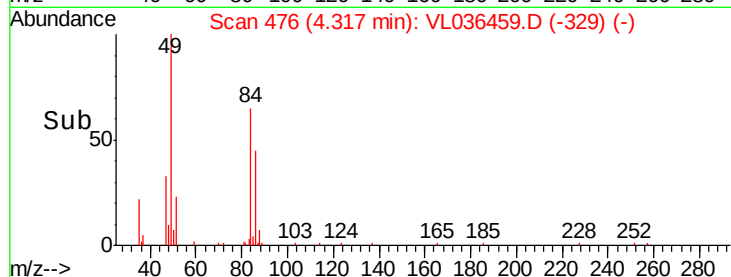
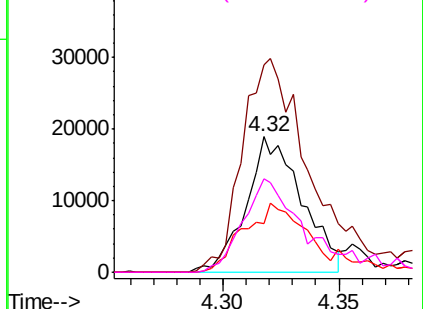
#20  
Methylene Chloride  
Concen: 0.516 ppbv  
RT: 4.32 min Scan# 476  
Delta R.T. -0.03 min  
Lab File: VL036459.D  
Acq: 19 Mar 2021 23:25

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 84 Resp: 31674  
Ion Ratio Lower Upper  
84 100  
49 153.1 130.2 195.2  
51 35.5 40.5 60.7#  
86 69.2 51.4 77.2

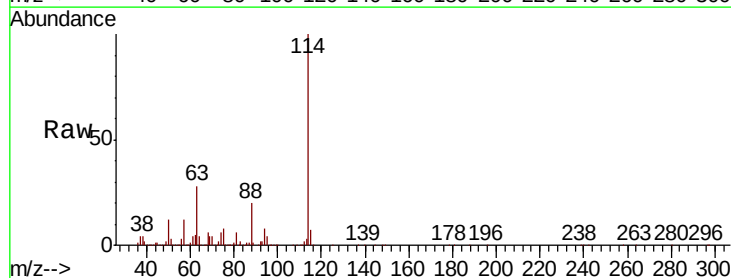
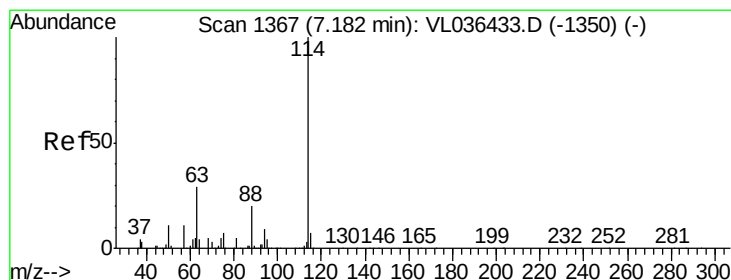


Abundance Ion 84.00 (83.70 to 84.70): VL0  
Ion 49.10 (48.80 to 49.80): VL0  
Ion 51.10 (50.80 to 51.80): VL0  
Ion 86.00 (85.70 to 86.70): VL0

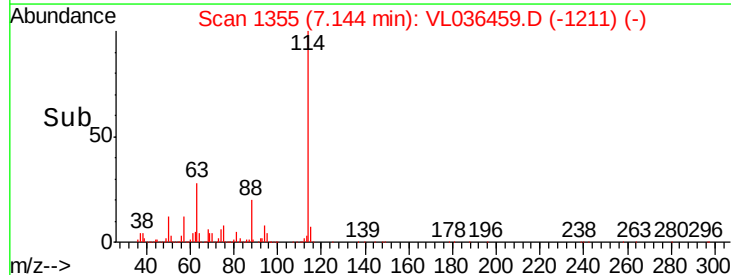
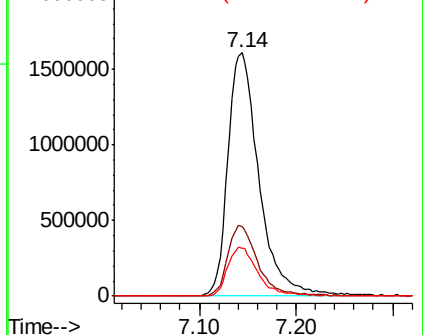


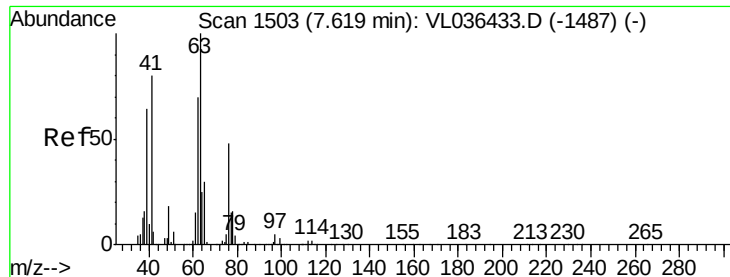
#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.14 min Scan# 1355  
Delta R.T. -0.04 min  
Lab File: VL036459.D  
Acq: 19 Mar 2021 23:25

Tgt Ion: 114 Resp: 3591102  
Ion Ratio Lower Upper  
114 100  
63 28.4 23.3 34.9  
88 19.8 15.6 23.4



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





#39

1,2-Dichloropropane

Concen: 8.451 ppbv

RT: 7.14 min Scan# 1354

Delta R.T. -0.48 min

Lab File: VL036459.D

Acq: 19 Mar 2021 23:25

Instrument :

MSVOA\_L

ClientSampleId :

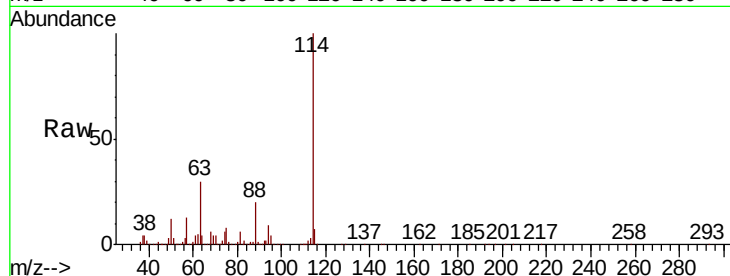
Tot Ion: 63 Resp: 1001407

Ion Ratio Lower Upper

63 100

41 0.0 64.4 96.6#

62 18.5 55.7 83.5#

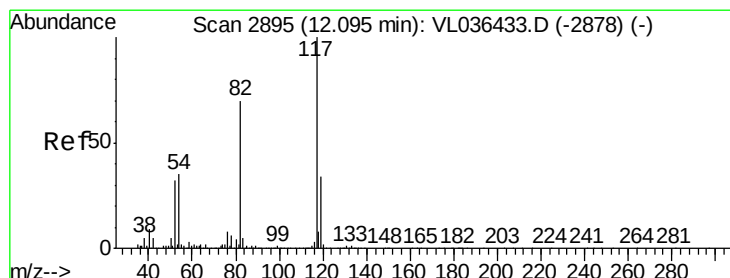
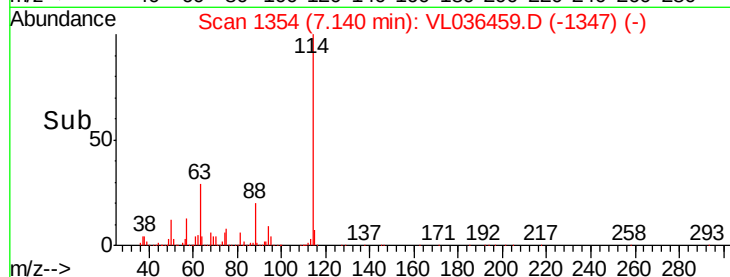
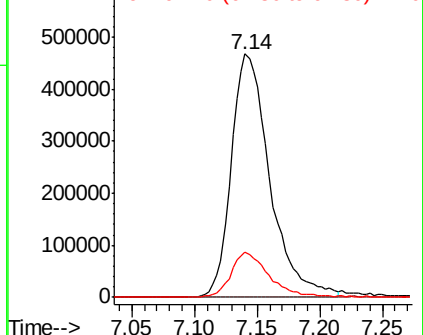


Abundance

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: 12.05 min Scan# 2881

Delta R.T. -0.04 min

Lab File: VL036459.D

Acq: 19 Mar 2021 23:25

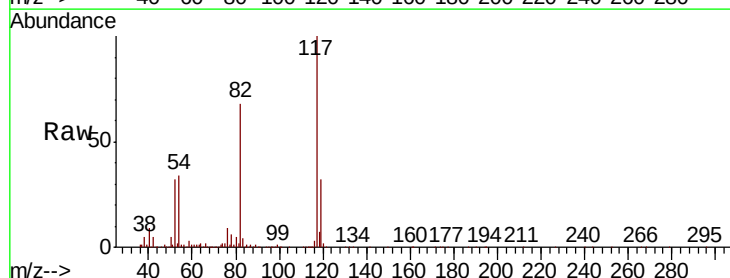
Tgt Ion: 117 Resp: 3293548

Ion Ratio Lower Upper

117 100

82 72.6 56.5 84.7

119 34.1 27.0 40.4

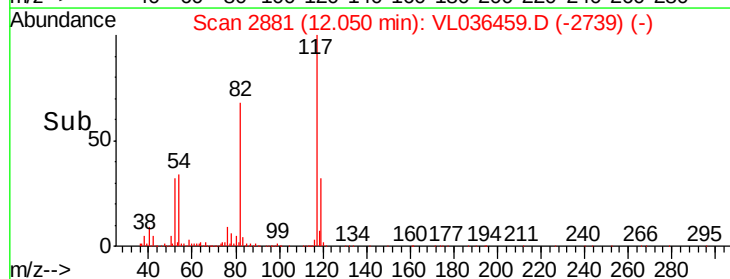
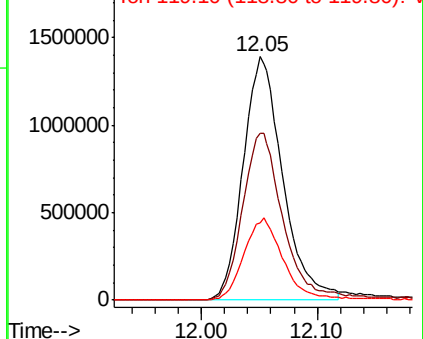


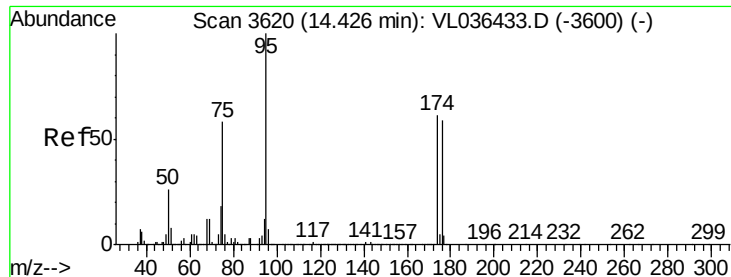
Abundance

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





#68

1-Bromo-4-Fluorobenzene

Concen: 9.815 ppbv

RT: 14.38 min Scan# 3606

Delta R.T. -0.04 min

Lab File: VL036459.D

Acq: 19 Mar 2021 23:25

Instrument :

MSVOA\_L

ClientSampleId :

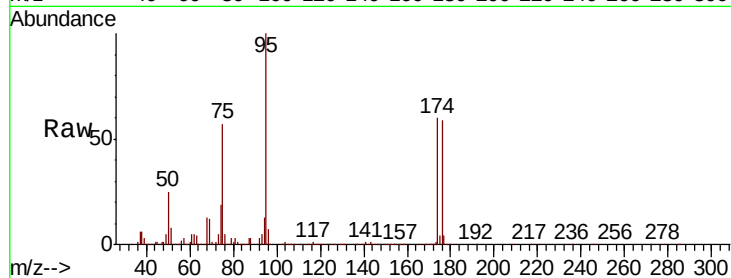
Tot Ion: 95 Resp: 2658430

Ion Ratio Lower Upper

95 100

174 65.4 51.0 76.4

175 4.5 3.8 5.6



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

