

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\  
 Data File : VL035823.D  
 Acq On : 4 Nov 2020 3:46  
 Operator : SY/AP  
 Sample : L4610-02DL 40X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Nov 04 05:18:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Nov 04 02:40:06 2020  
 QLast Update : Wed Nov 04 02:40:06 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.64  | 49   | 1198750  | 10.00 | ppbv  | -0.03    |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 5184249  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 4803185  | 10.00 | ppbv  | -0.04    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 3392433  | 9.94     | ppbv | -0.04  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.40% |

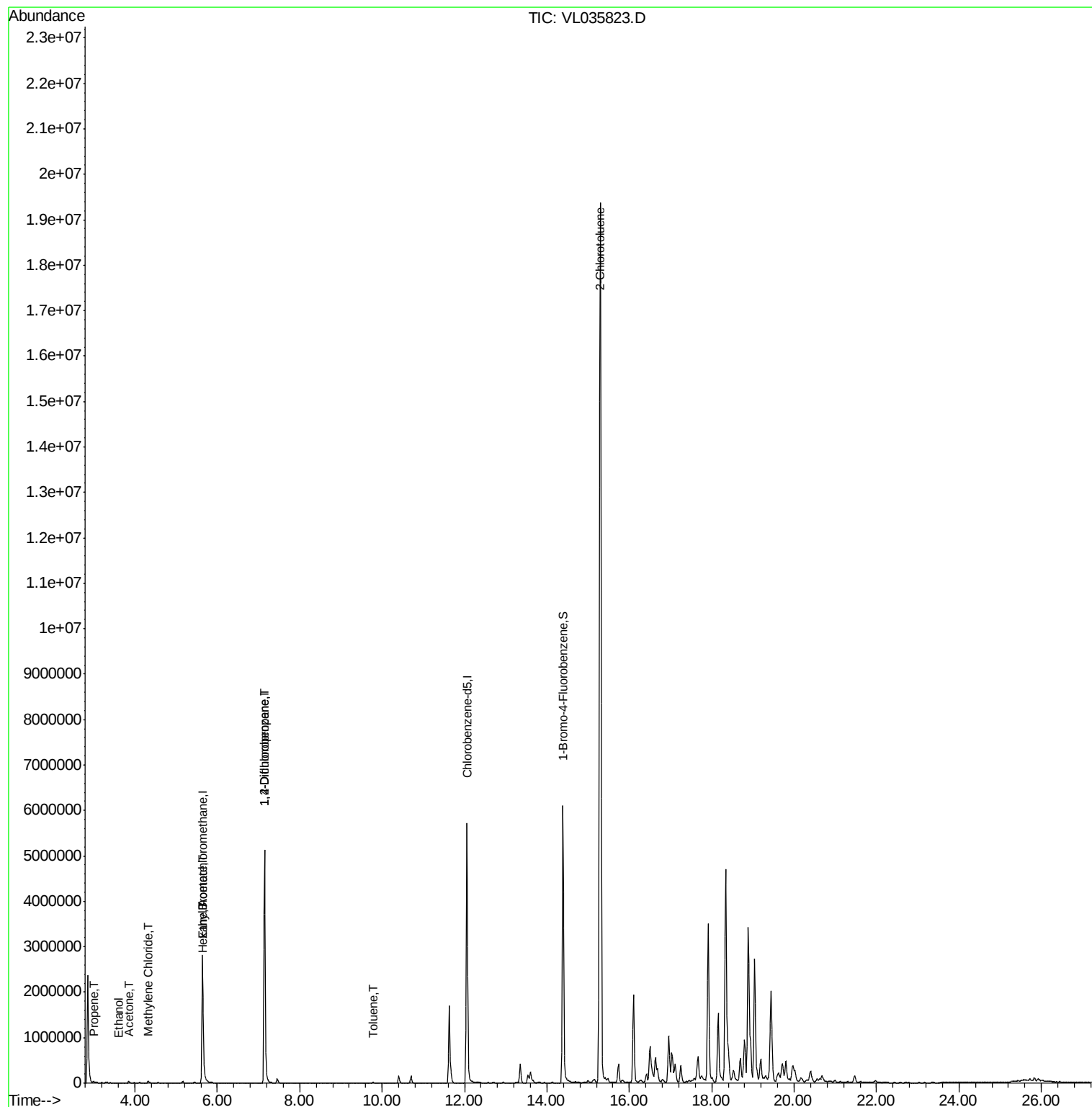
| Target Compounds        |       |    |         |        | Ovalue    |
|-------------------------|-------|----|---------|--------|-----------|
| 9) Propene              | 2.99  | 41 | 19791   | 0.377  | ppbv 98   |
| 13) Ethanol             | 3.60  | 45 | 1706    | 0.150  | ppbv # 35 |
| 15) Acetone             | 3.85  | 43 | 39642   | 0.309  | ppbv # 50 |
| 20) Methylene Chloride  | 4.32  | 84 | 23568   | 0.261  | ppbv # 93 |
| 25) Ethyl Acetate       | 5.66  | 43 | 8686    | 0.034  | ppbv # 73 |
| 26) Hexane              | 5.66  | 57 | 10079   | 0.072  | ppbv # 50 |
| 39) 1,2-Dichloropropane | 7.14  | 63 | 949901  | 7.321  | ppbv # 31 |
| 53) Toluene             | 9.77  | 91 | 15979   | 0.034  | ppbv # 78 |
| 71) 2-Chlorotoluene     | 15.30 | 91 | 5996710 | 10.834 | ppbv # 39 |

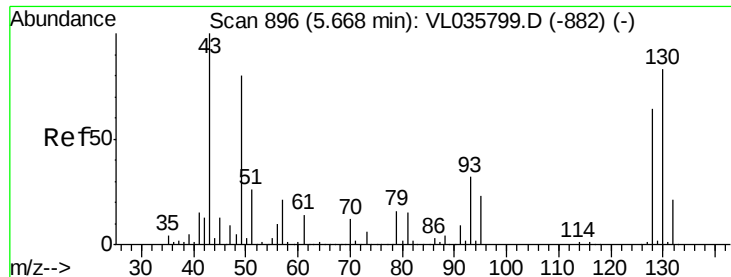
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
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QLast Update : Wed Nov 04 02:40:06 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL035823.D

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Instrument :

MSVOA\_L

ClientSampleId :

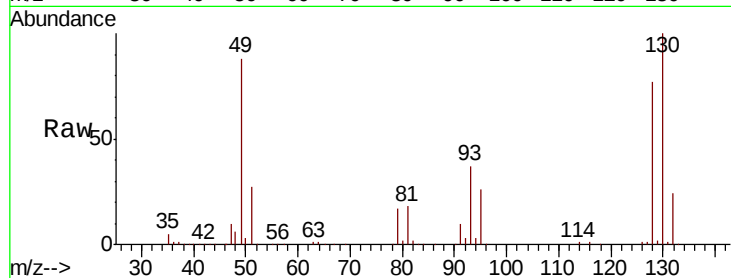
Tot Ion: 49 Resp: 1198750

Ion Ratio Lower Upper

49 100

128 90.6 41.5 124.6

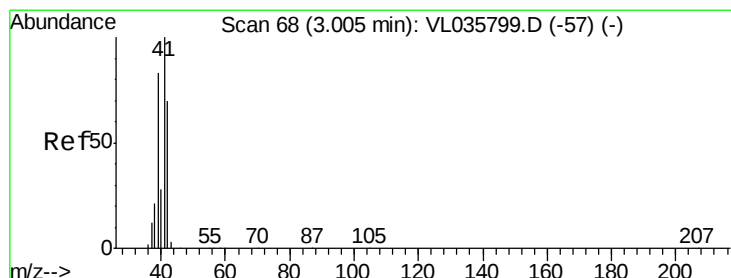
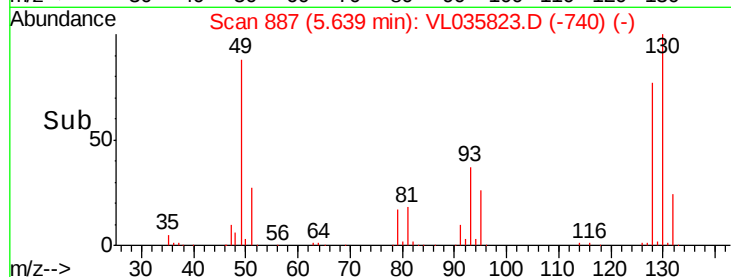
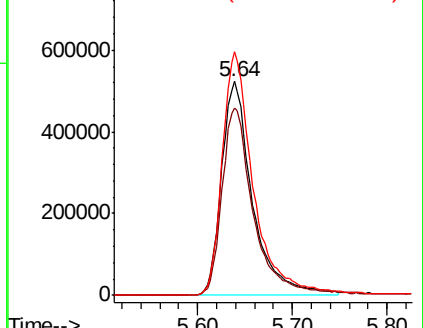
130 116.9 53.7 161.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 0.377 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.01 min

Lab File: VL035823.D

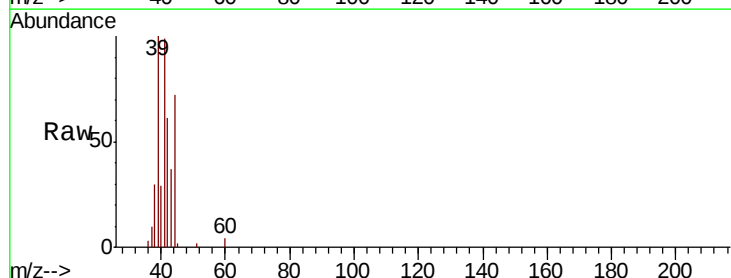
Acq: 4 Nov 2020 3:46

Tgt Ion: 41 Resp: 19791

Ion Ratio Lower Upper

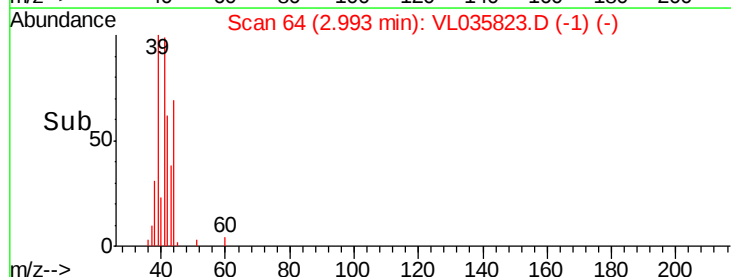
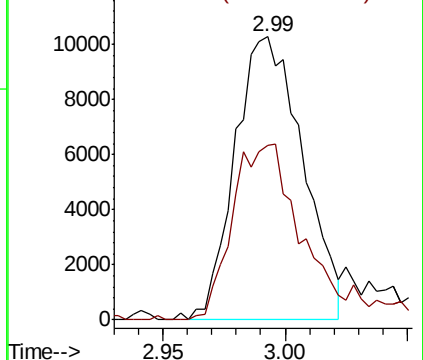
41 100

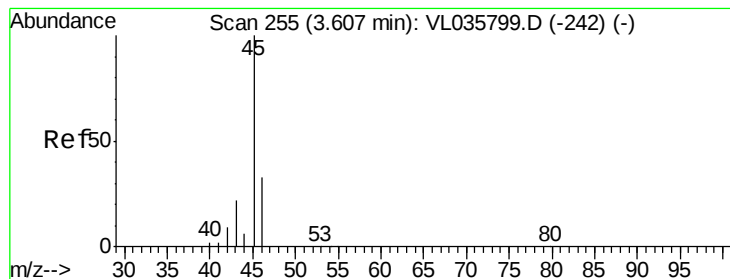
42 69.1 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 0.150 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL035823.D

Acq: 4 Nov 2020 3:46

Instrument :

MSVOA\_L

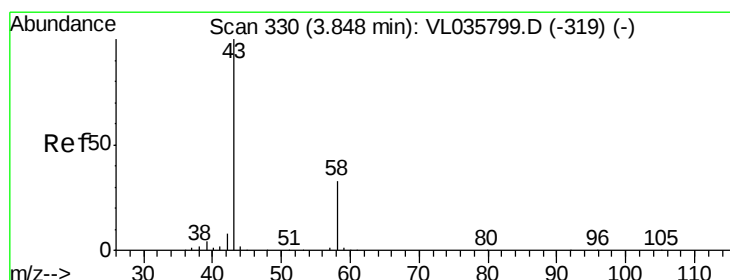
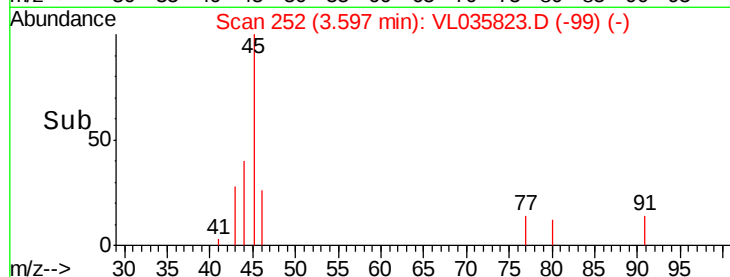
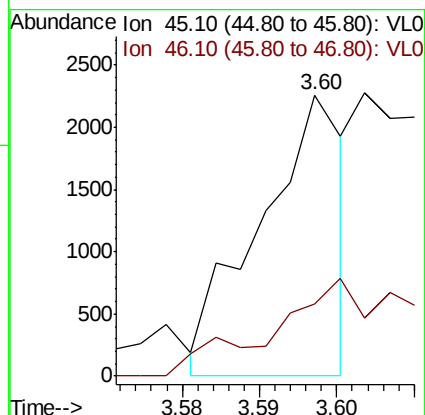
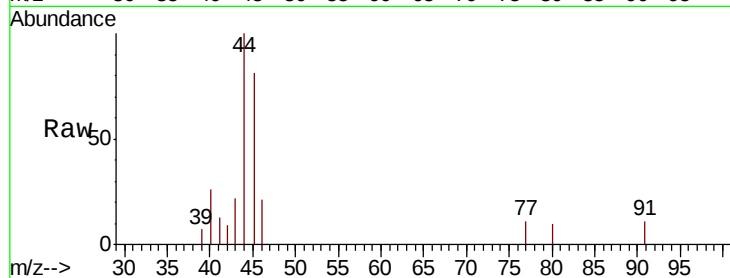
ClientSampled :

Tot Ion: 45 Resp: 1706

Ion Ratio Lower Upper

45 100

46 0.0 16.1 64.5#



#15

Acetone

Concen: 0.309 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.00 min

Lab File: VL035823.D

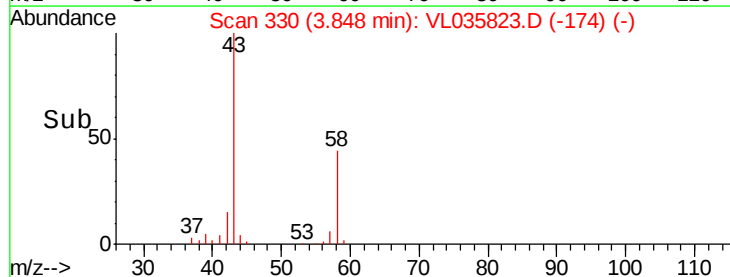
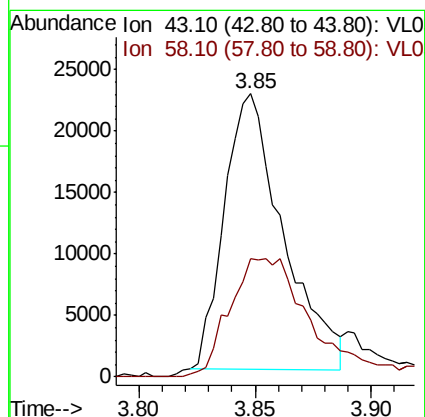
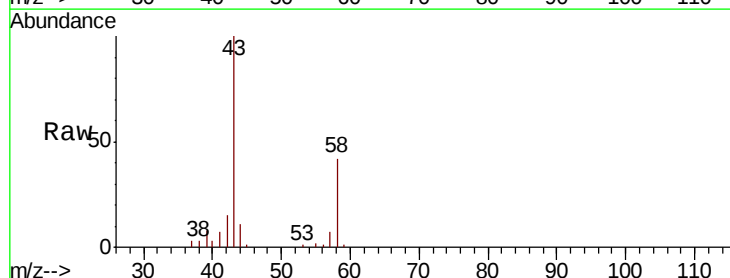
Acq: 4 Nov 2020 3:46

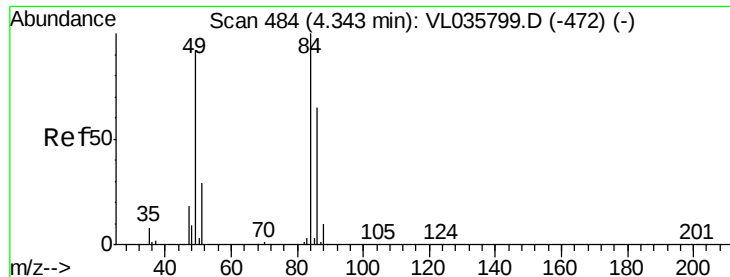
Tgt Ion: 43 Resp: 39642

Ion Ratio Lower Upper

43 100

58 62.9 27.5 41.3#

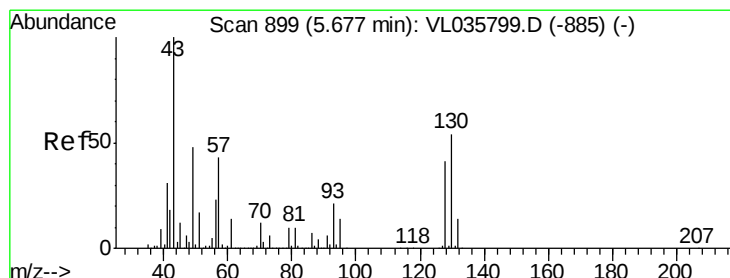
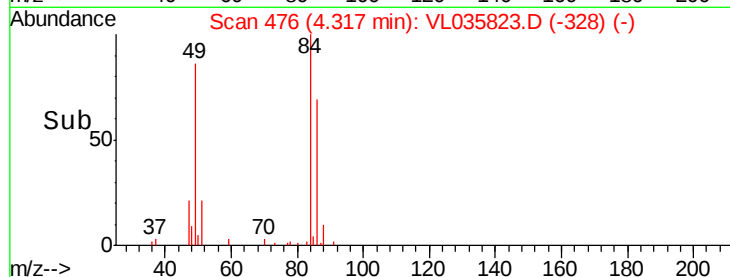
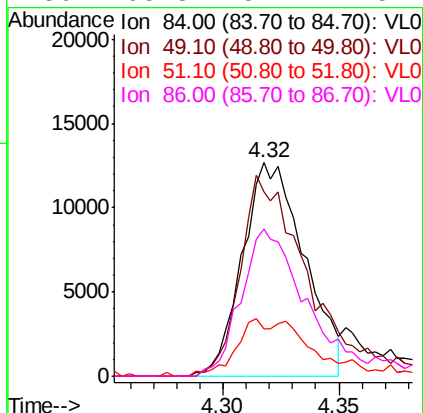
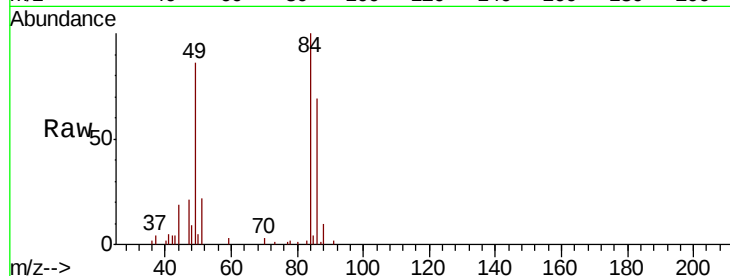




#20  
Methvlene Chloride  
Concen: 0.261 ppbv  
RT: 4.32 min Scan# 476  
Delta R.T. -0.03 min  
Lab File: VL035823.D  
Acq: 4 Nov 2020 3:46

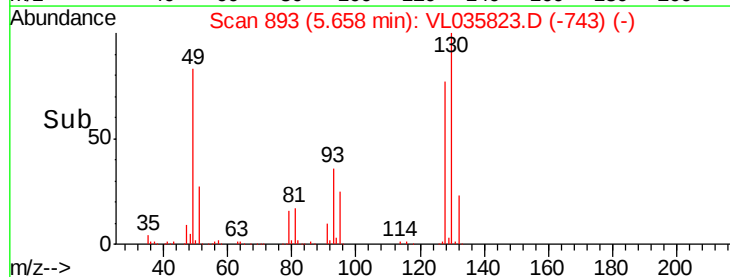
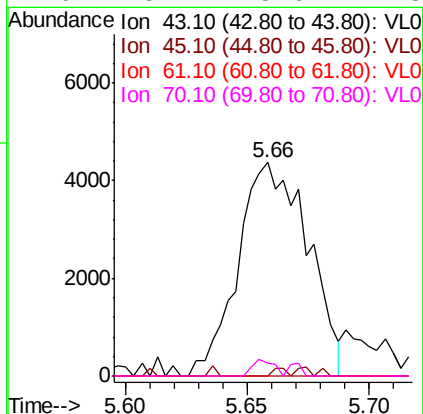
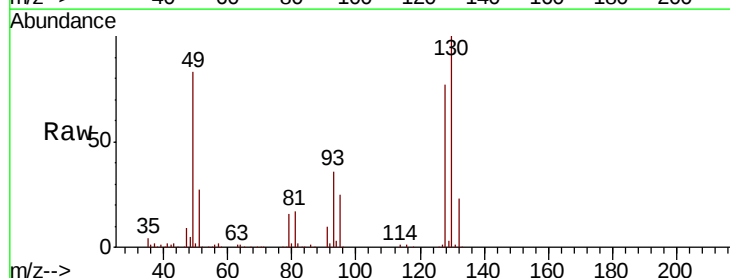
Instrument :  
MSVOA\_L  
ClientSampleId :

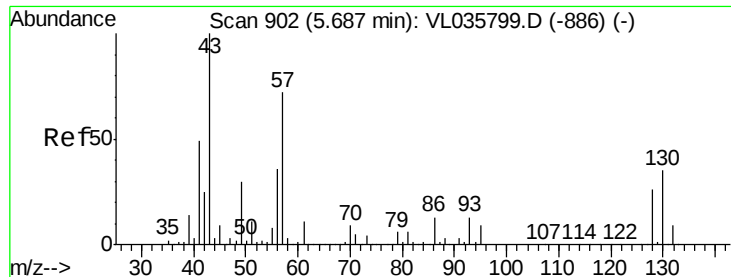
Tot Ion: 84 Resp: 23568  
Ion Ratio Lower Upper  
84 100  
49 86.0 73.8 110.8  
51 22.4 23.0 34.4#  
86 68.8 52.1 78.1



#25  
Ethyl Acetate  
Concen: 0.034 ppbv  
RT: 5.66 min Scan# 893  
Delta R.T. -0.02 min  
Lab File: VL035823.D  
Acq: 4 Nov 2020 3:46

Tgt Ion: 43 Resp: 8686  
Ion Ratio Lower Upper  
43 100  
45 0.0 8.5 12.7#  
61 0.0 10.7 16.1#  
70 3.4 8.6 12.8#

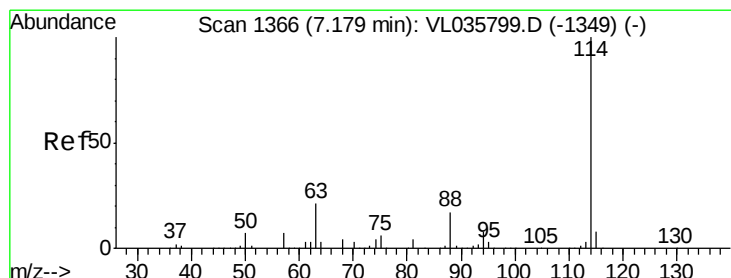
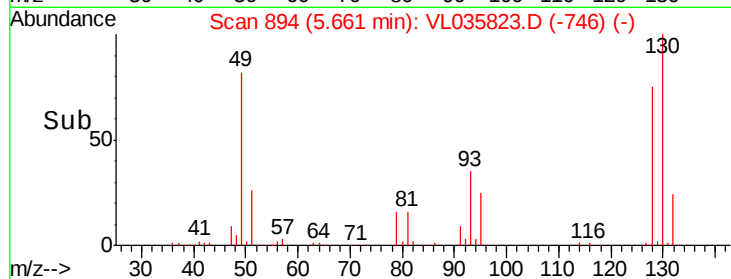
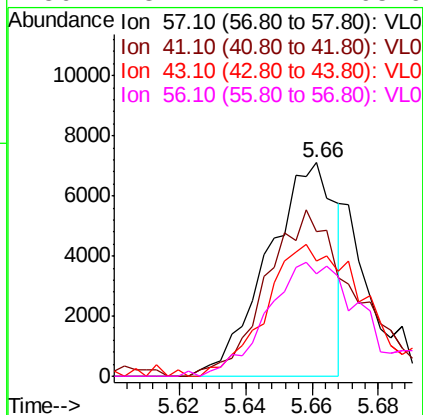
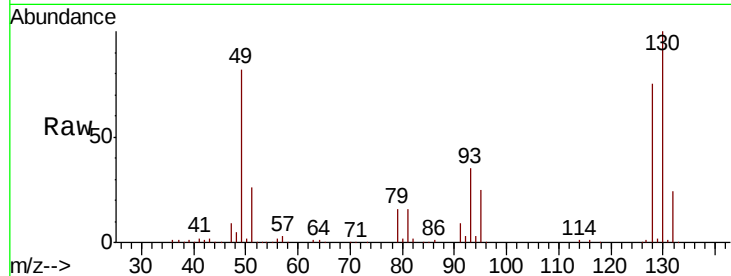




#26  
Hexane  
Concen: 0.072 ppbv  
RT: 5.66 min Scan# 894  
Delta R.T. -0.03 min  
Lab File: VL035823.D  
Acq: 4 Nov 2020 3:46

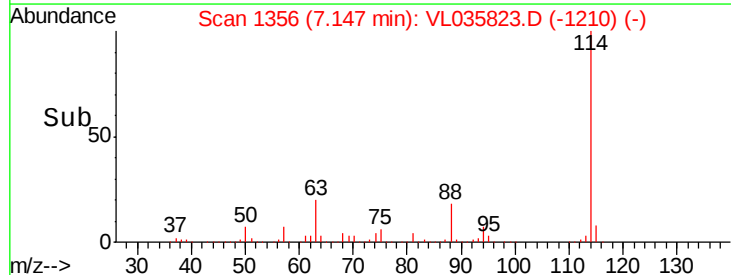
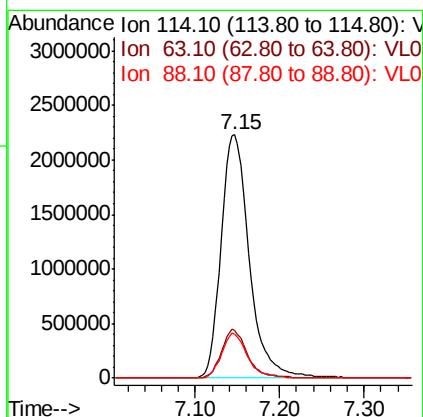
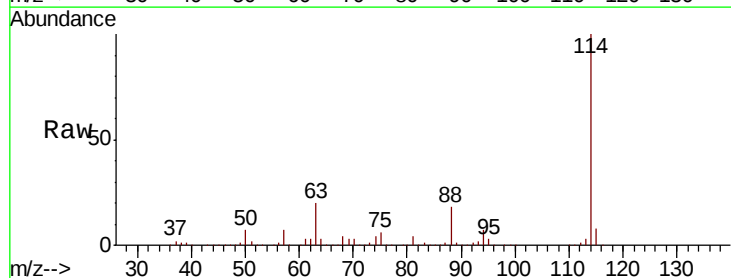
Instrument :  
MSVOA\_L  
ClientSampled :

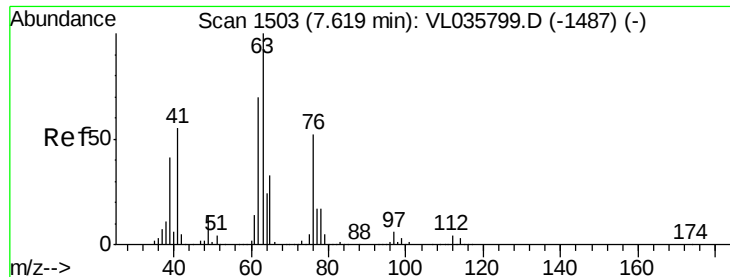
Tot Ion: 57 Resp: 10079  
Ion Ratio Lower Upper  
57 100  
41 112.5 58.9 88.3#  
43 105.7 150.2 225.2#  
56 78.4 42.4 63.6#



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.15 min Scan# 1356  
Delta R.T. -0.03 min  
Lab File: VL035823.D  
Acq: 4 Nov 2020 3:46

Tgt Ion: 114 Resp: 5184249  
Ion Ratio Lower Upper  
114 100  
63 18.5 16.1 24.1  
88 17.0 13.7 20.5

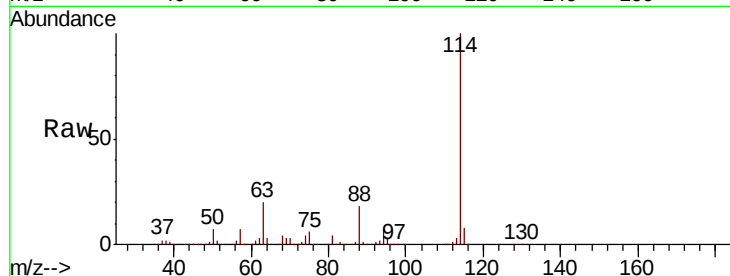




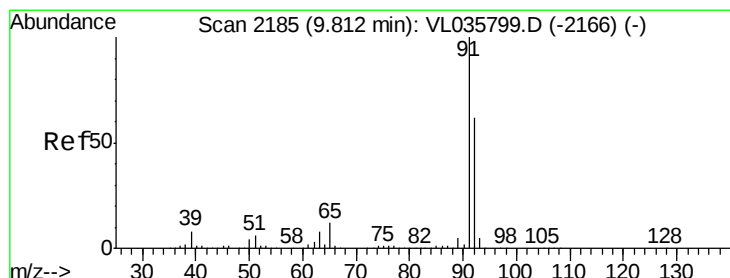
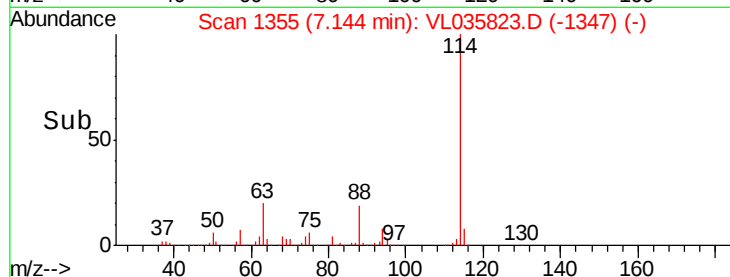
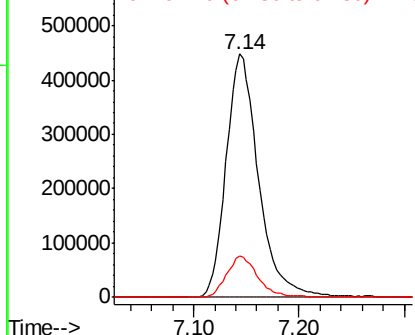
#39  
 1,2-Dichloropropane  
 Concen: 7.321 ppbv  
 RT: 7.14 min Scan# 1355  
 Delta R.T. -0.48 min  
 Lab File: VL035823.D  
 Acq: 4 Nov 2020 3:46

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion: 63 Resp: 949901  
 Ion Ratio Lower Upper  
 63 100  
 41 0.1 43.8 65.6#  
 62 17.2 56.2 84.2#

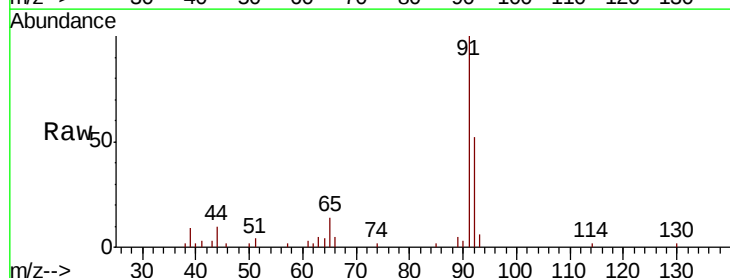


Abundance Ion 63.10 (62.80 to 63.80): VL0  
 Ion 41.10 (40.80 to 41.80): VL0  
 Ion 62.10 (61.80 to 62.80): VL0

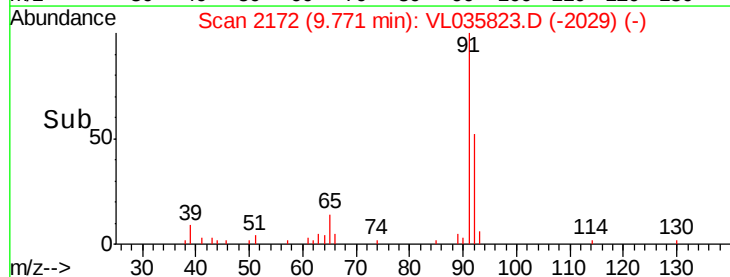
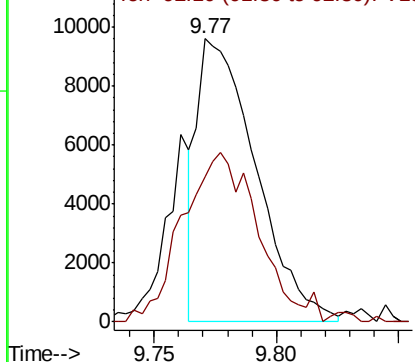


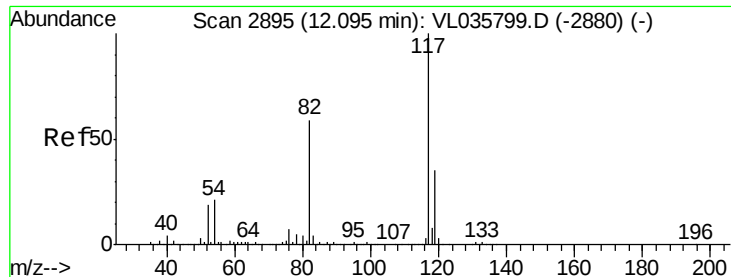
#53  
 Toluene  
 Concen: 0.034 ppbv  
 RT: 9.77 min Scan# 2172  
 Delta R.T. -0.04 min  
 Lab File: VL035823.D  
 Acq: 4 Nov 2020 3:46

Tgt Ion: 91 Resp: 15979  
 Ion Ratio Lower Upper  
 91 100  
 92 79.0 49.8 74.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0  
 Ion 92.10 (91.80 to 92.80): VL0

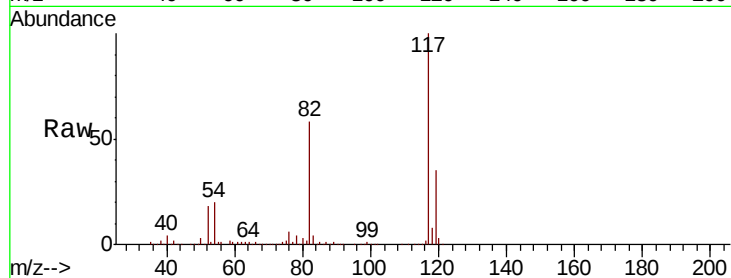




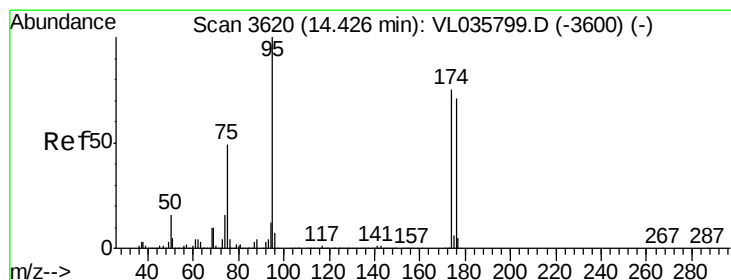
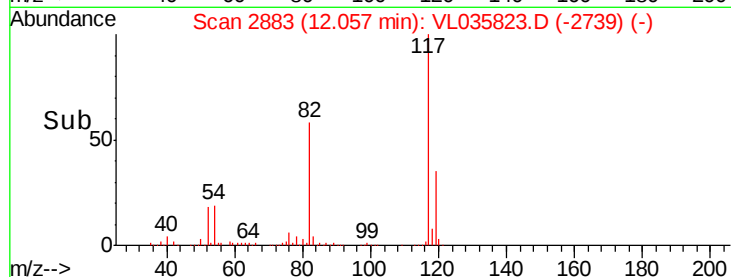
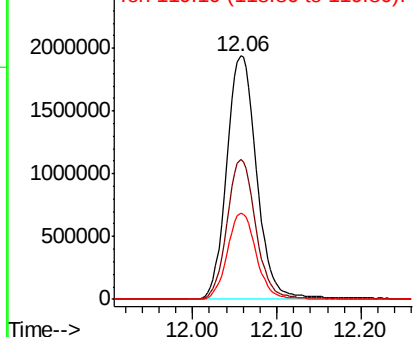
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.06 min Scan# 2883  
Delta R.T. -0.04 min  
Lab File: VL035823.D  
Acq: 4 Nov 2020 3:46

Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion:117 Resp: 4803185  
Ion Ratio Lower Upper  
117 100  
82 56.2 50.6 76.0  
119 34.7 52.6 78.8#

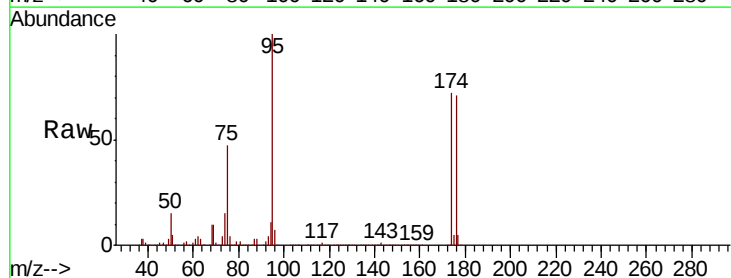


Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): VL0  
Ion 119.10 (118.80 to 119.80): V

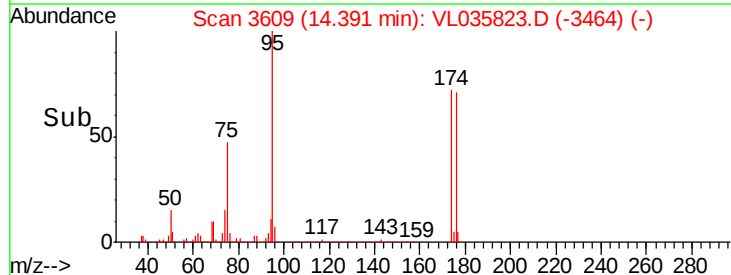
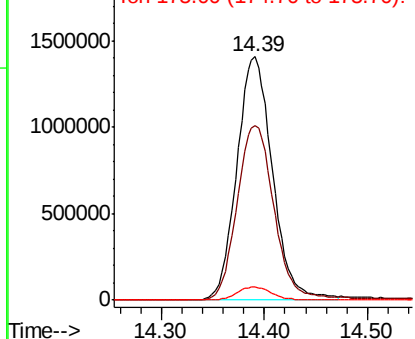


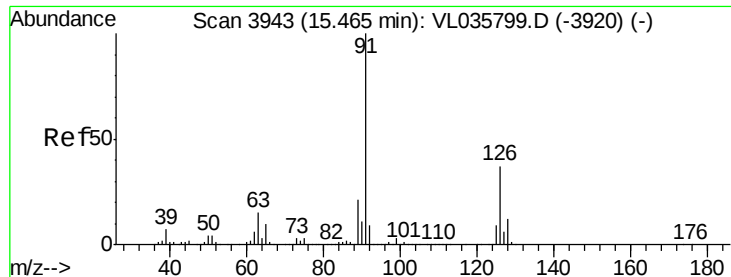
#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.941 ppbv  
RT: 14.39 min Scan# 3609  
Delta R.T. -0.04 min  
Lab File: VL035823.D  
Acq: 4 Nov 2020 3:46

Tgt Ion: 95 Resp: 3392433  
Ion Ratio Lower Upper  
95 100  
174 76.3 59.8 89.6  
175 5.4 4.3 6.5



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





#71  
 2-Chlorotoluene  
 Concen: 10.834 ppbv  
 RT: 15.30 min Scan# 3891  
 Delta R.T. -0.17 min  
 Lab File: VL035823.D  
 Acq: 4 Nov 2020 3:46

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion: 91 Resp: 5996710  
 Ion Ratio Lower Upper  
 91 100  
 126 0.0 14.3 57.1#

