

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL032122\  
 Data File : VL038656.D  
 Acq On : 21 Mar 2022 18:56  
 Operator : SY/AP  
 Sample : VL0321ABL01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0321ABL01

Quant Time: Mar 22 03:50:02 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032122AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 21 17:09:26 2022  
 QLast Update : Mon Mar 21 17:09:26 2022  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.665  | 49   | 937696   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.169  | 114  | 2359581  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.079 | 117  | 2020121  | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 14.407 | 95    | 1568118  | 10.125   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.200% |

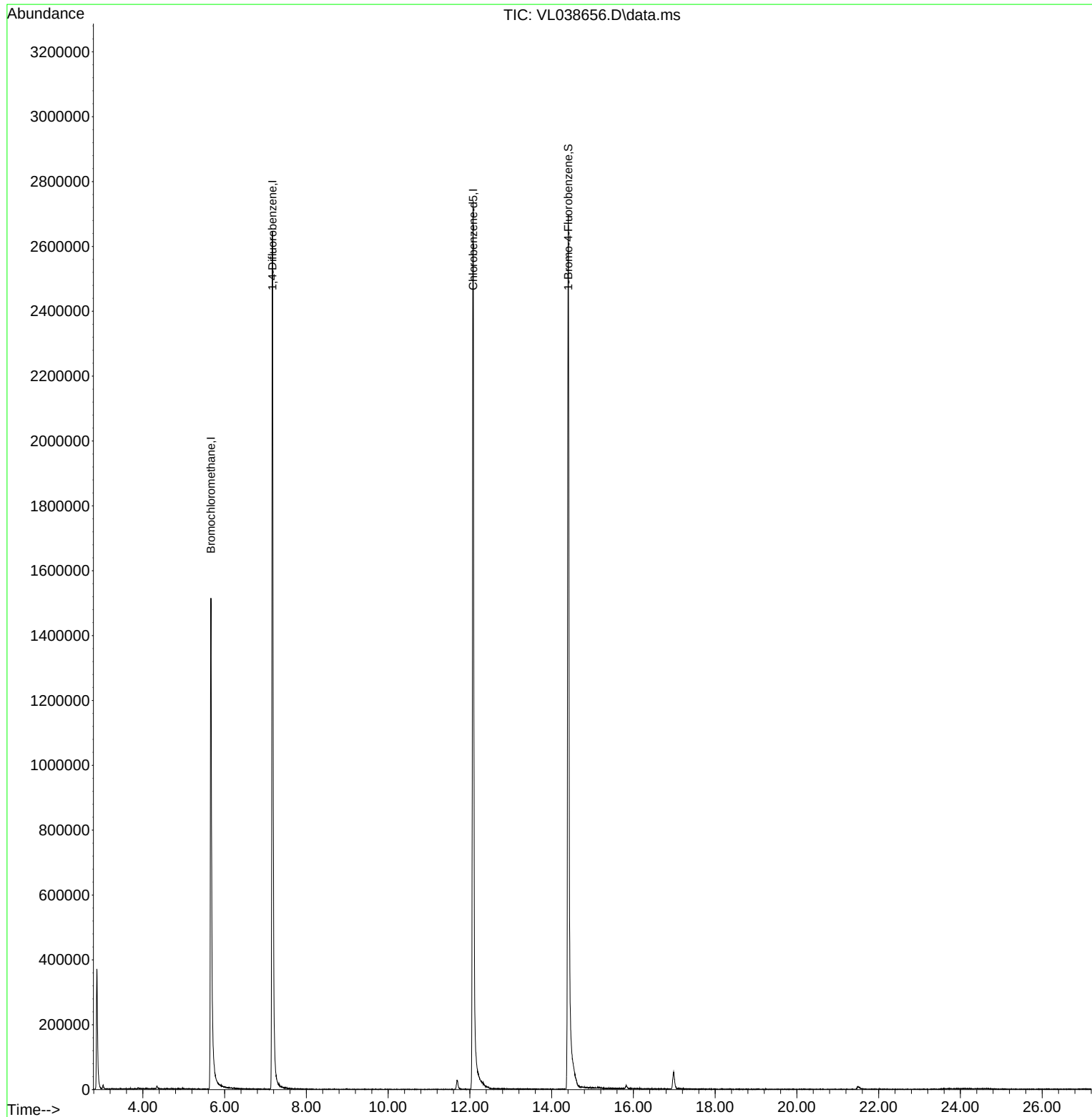
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

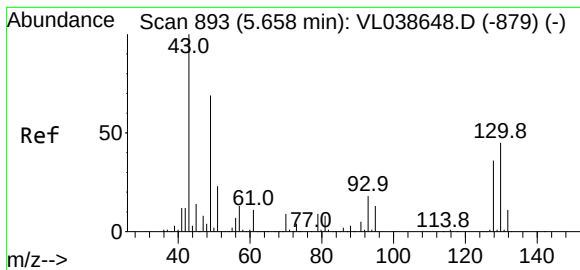
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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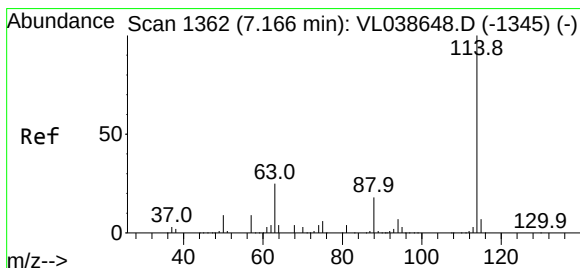
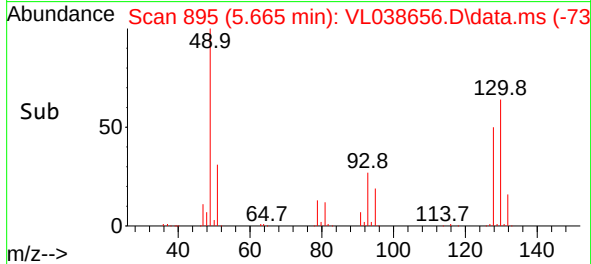
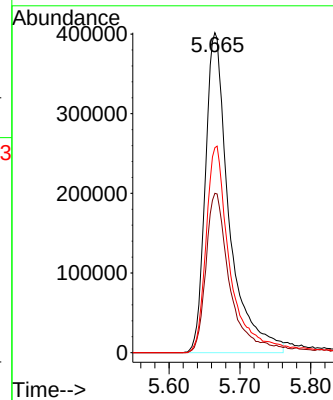
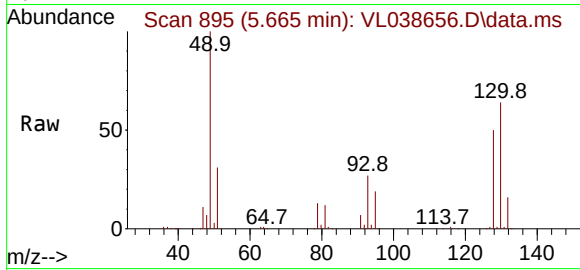




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.665 min Scan# 893  
 Delta R.T. 0.006 min  
 Lab File: VL038656.D  
 Acq: 21 Mar 2022 18:56

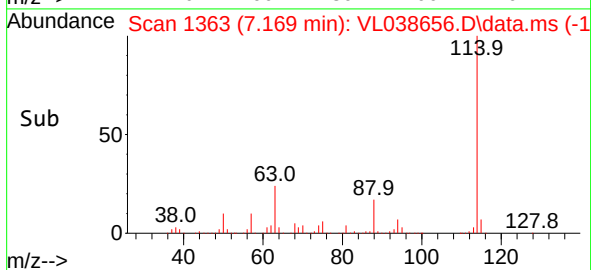
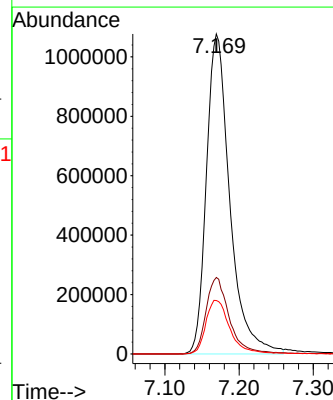
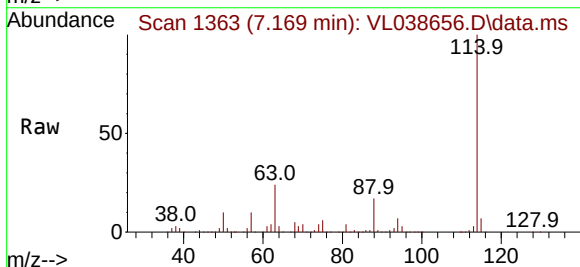
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0321ABL01

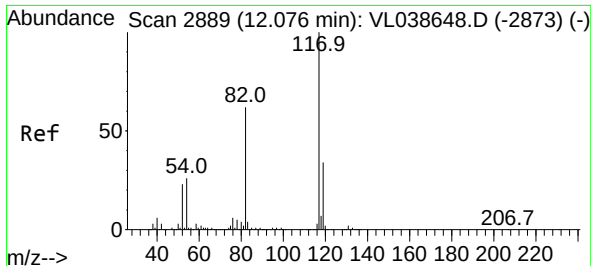
Tgt Ion: 49 Resp: 937696  
 Ion Ratio Lower Upper  
 49 100  
 128 52.8 26.2 78.6  
 130 67.4 33.7 101.1



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.169 min Scan# 1363  
 Delta R.T. 0.003 min  
 Lab File: VL038656.D  
 Acq: 21 Mar 2022 18:56

Tgt Ion: 114 Resp: 2359581  
 Ion Ratio Lower Upper  
 114 100  
 63 23.9 19.4 29.0  
 88 17.5 13.9 20.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.079 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL038656.D

Acq: 21 Mar 2022 18:56

Instrument :

MSVOA\_L

ClientSampleId :

VL0321ABL01

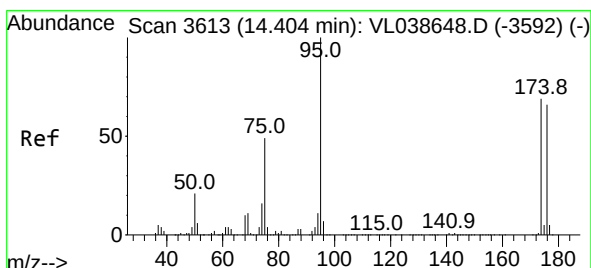
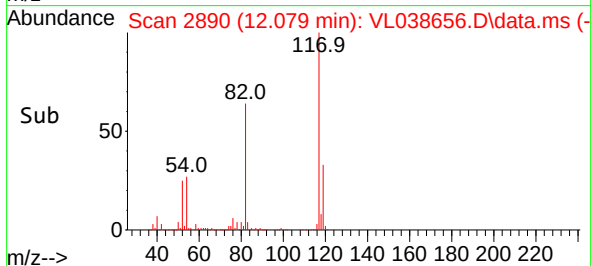
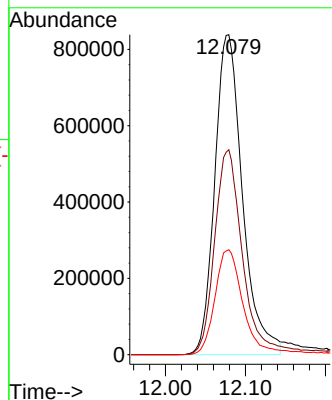
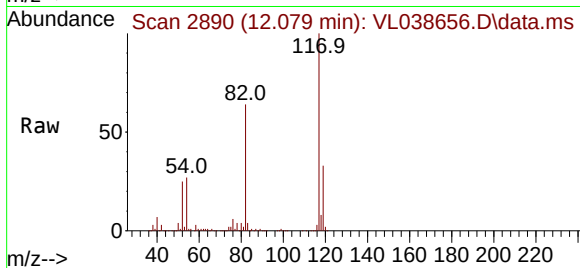
Tgt Ion:117 Resp: 2020121

Ion Ratio Lower Upper

117 100

82 68.1 51.6 77.4

119 34.8 26.9 40.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.125 ppbv

RT: 14.407 min Scan# 3614

Delta R.T. 0.003 min

Lab File: VL038656.D

Acq: 21 Mar 2022 18:56

Tgt Ion: 95 Resp: 1568118

Ion Ratio Lower Upper

95 100

174 70.7 56.1 84.1

175 5.2 4.2 6.2

