

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092723\  
 Data File : VL040731.D  
 Acq On : 27 Sep 2023 17:33  
 Operator : SY/MD  
 Sample : QC091923 CAN 10604  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 QC091923 CAN 10604

Quant Time: Sep 28 01:45:21 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091423AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Sep 19 05:12:43 2023  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.185  | 49   | 1165243  | 10.000 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 6.639  | 114  | 3323637  | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 11.446 | 117  | 2803561  | 10.000 | ppbv  | -0.03    |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 13.754 | 95    | 1979768  | 9.140    | ppbv | -0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 91.400% |

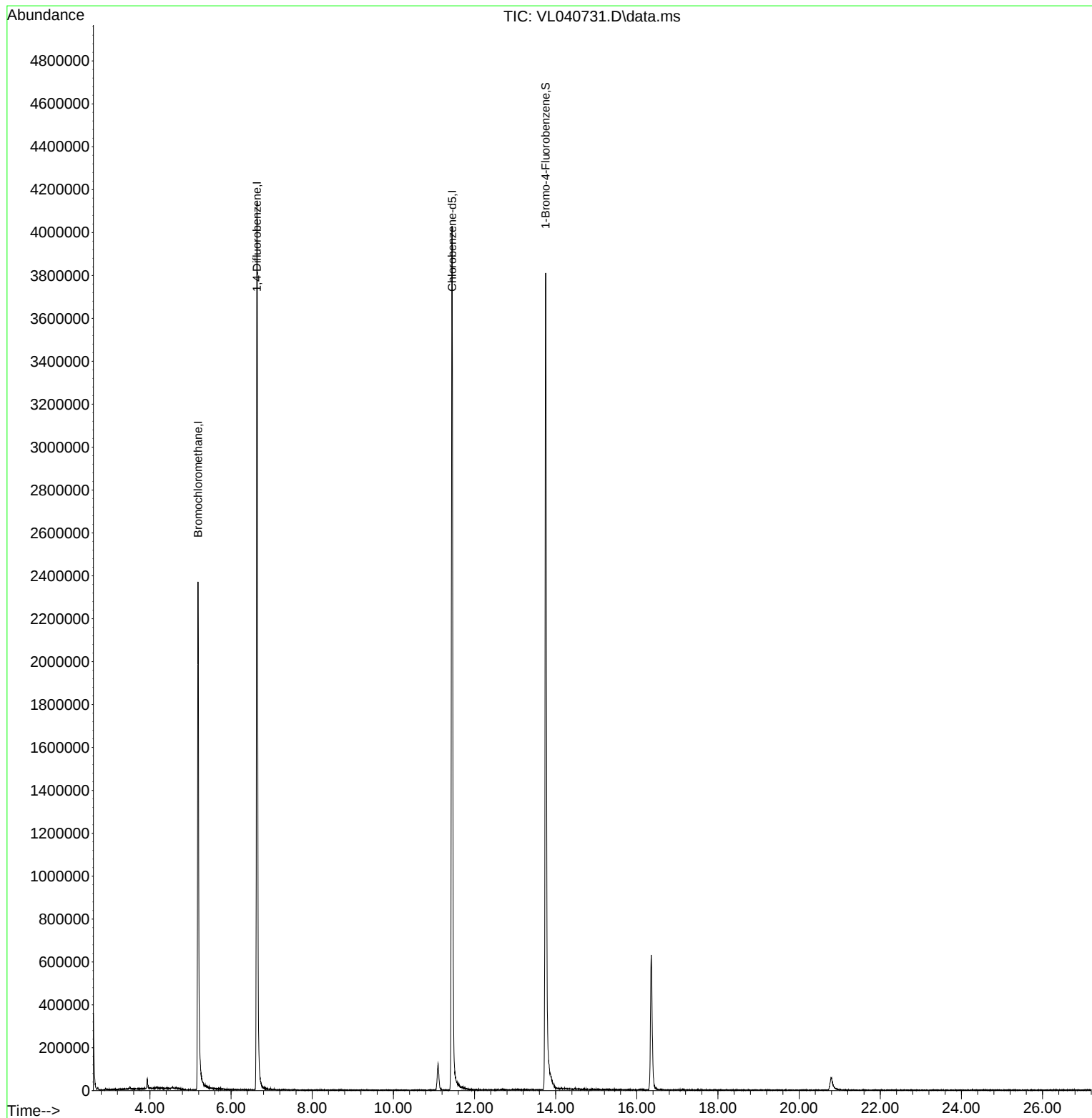
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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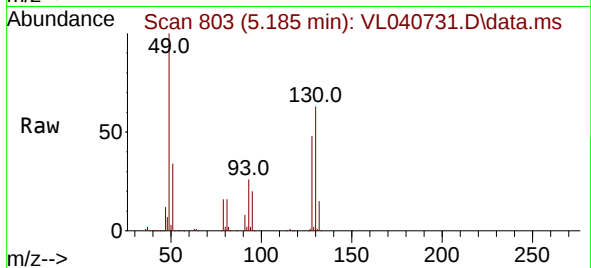
Quant Time: Sep 28 01:45:21 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL091423AIR.M  
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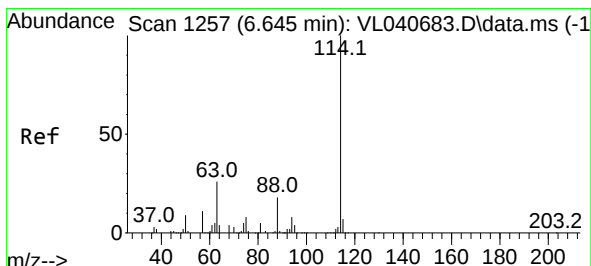
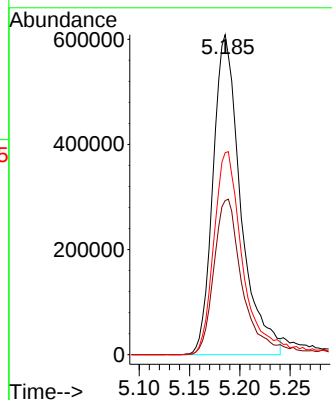
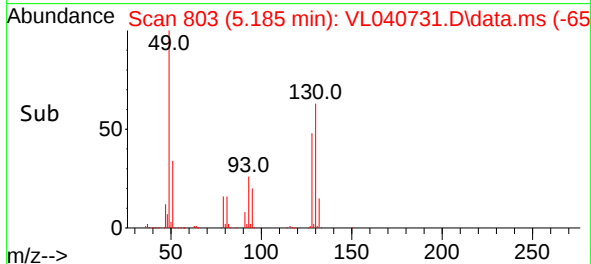


#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.185 min Scan# 803  
Delta R.T. -0.013 min  
Lab File: VL040731.D  
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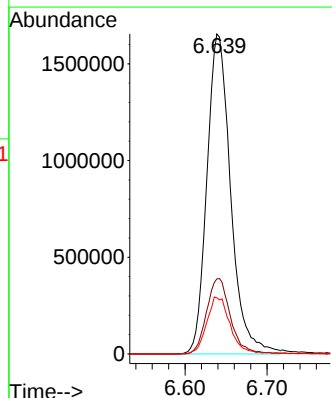
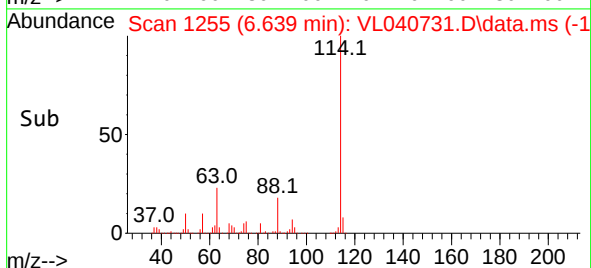
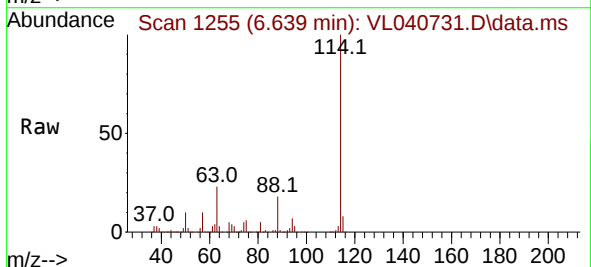


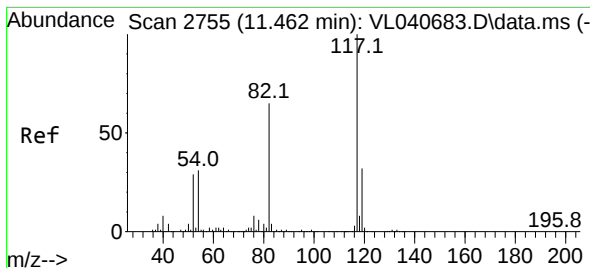
Tgt Ion: 49 Resp: 1165243  
Ion Ratio Lower Upper  
49 100  
128 52.0 25.4 76.0  
130 68.3 32.3 96.8



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.639 min Scan# 1255  
Delta R.T. -0.022 min  
Lab File: VL040731.D  
Acq: 27 Sep 2023 17:33

Tgt Ion: 114 Resp: 3323637  
Ion Ratio Lower Upper  
114 100  
63 23.9 21.1 31.7  
88 17.7 14.5 21.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.446 min Scan# 21

Delta R.T. -0.032 min

Lab File: VL040731.D

Acq: 27 Sep 2023 17:33

Instrument :

MSVOA\_L

ClientSampleId :

QC091923 CAN 10604

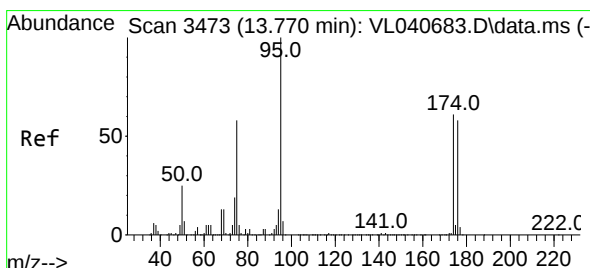
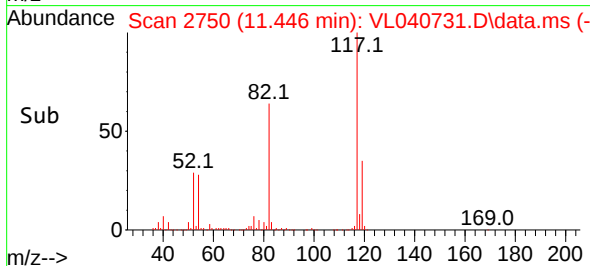
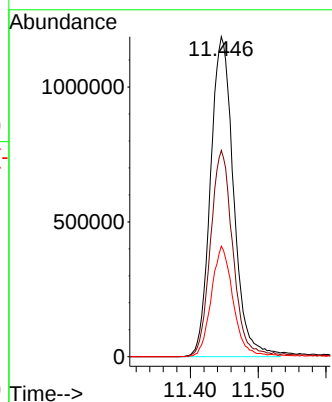
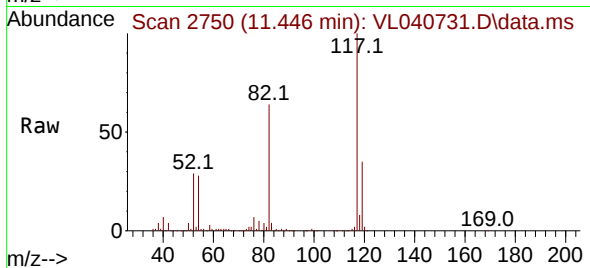
Tgt Ion:117 Resp: 2803561

Ion Ratio Lower Upper

117 100

82 64.1 51.4 77.0

119 33.3 24.7 37.1



#68

1-Bromo-4-Fluorobenzene

Concen: 9.140 ppbv

RT: 13.754 min Scan# 3468

Delta R.T. -0.032 min

Lab File: VL040731.D

Acq: 27 Sep 2023 17:33

Tgt Ion: 95 Resp: 1979768

Ion Ratio Lower Upper

95 100

174 68.0 48.9 73.3

175 4.8 3.5 5.3

