

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\  
Data File : VL034094.D  
Acq On : 5 Aug 2019 20:29  
Operator : SY/AP  
Sample : VL0805ABL01  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0805ABL01

Quant Time: Aug 06 07:10:09 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 05 17:09:48 2019  
QLast Update : Mon Aug 05 17:09:48 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.71  | 49   | 1192347  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.24  | 114  | 2362334  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.18 | 117  | 2434309  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.52  | 95    | 2040261  | 10.33    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.30% |

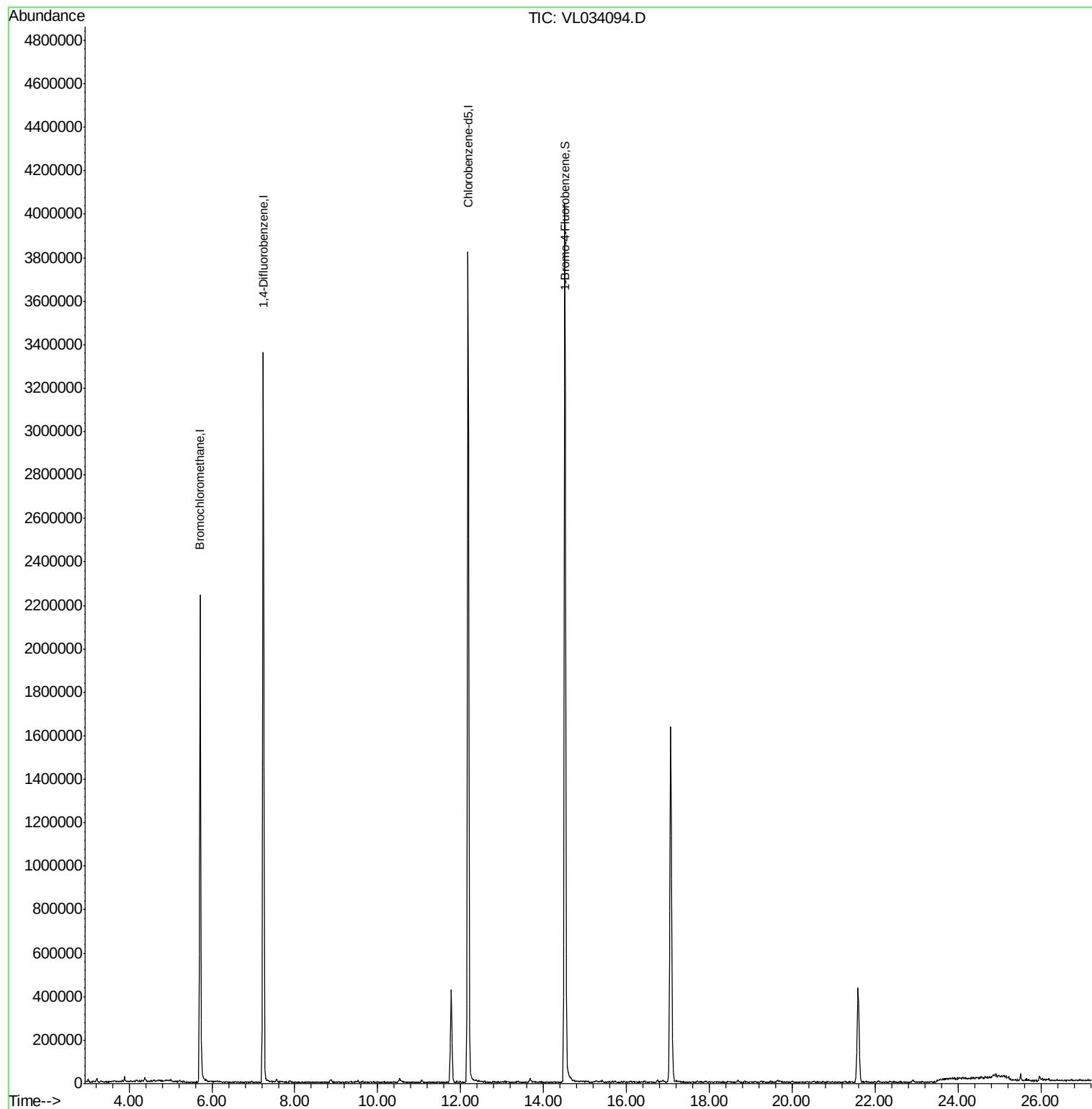
| Target Compounds | Ovalue |
|------------------|--------|
|------------------|--------|

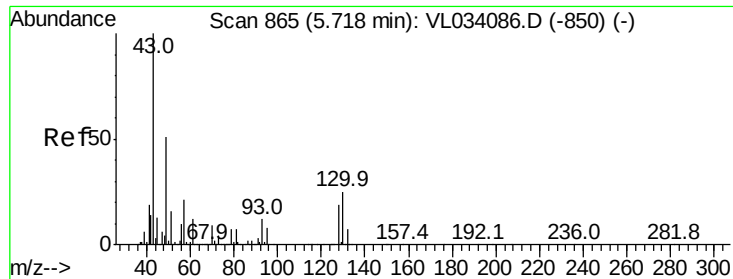
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 864

Delta R.T. -0.00 min

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Instrument :

MSVOA\_L

ClientSampleId :

VL0805ABL01

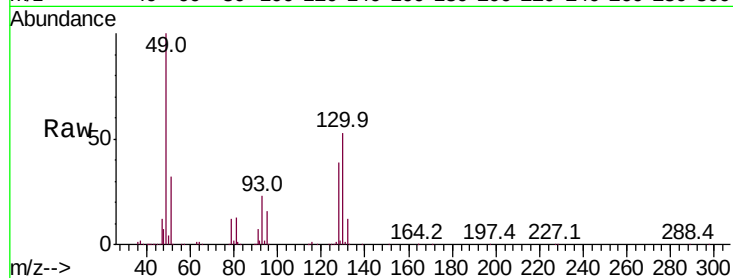
Tot Ion: 49 Resp: 1192347

Ion Ratio Lower Upper

49 100

128 40.1 19.5 58.5

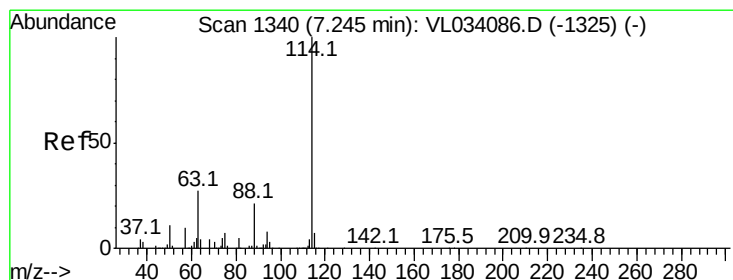
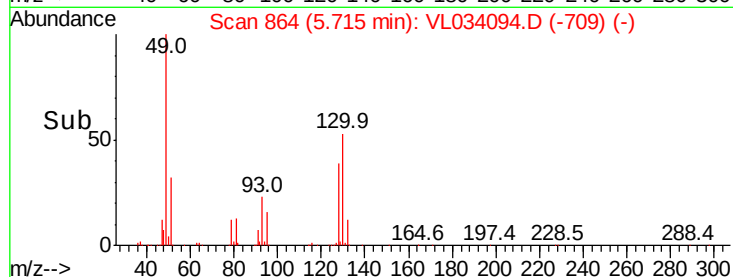
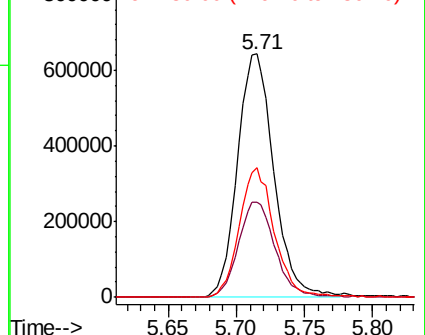
130 51.3 25.4 76.0



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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.24 min Scan# 1338

Delta R.T. -0.01 min

Lab File: VL034094.D

Acq: 5 Aug 2019 20:29

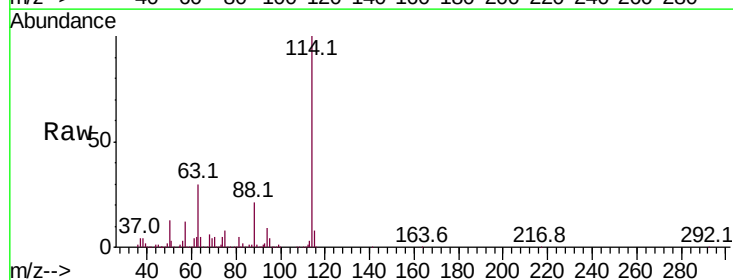
Tgt Ion:114 Resp: 2362334

Ion Ratio Lower Upper

114 100

63 28.9 22.5 33.7

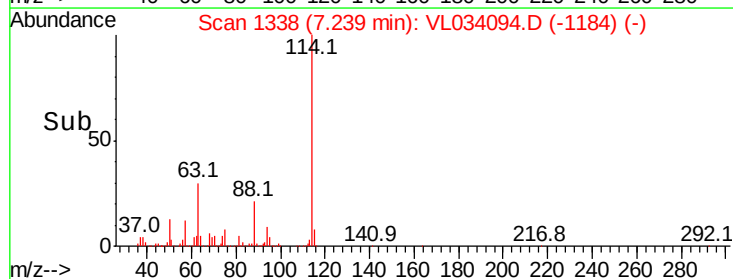
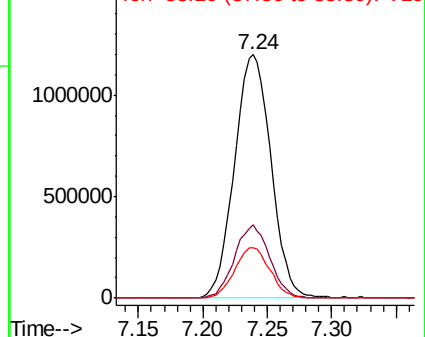
88 20.2 15.7 23.5

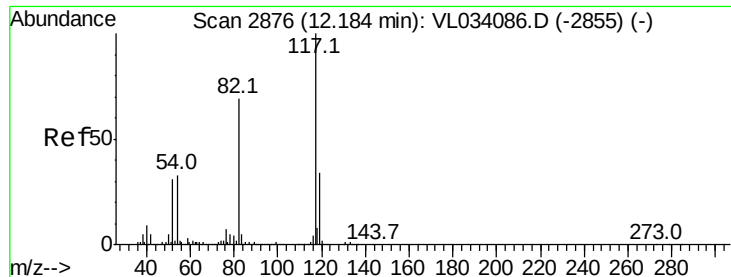


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2874

Delta R.T. -0.01 min

Lab File: VL034094.D

Acq: 5 Aug 2019 20:29

Instrument :

MSVOA\_L

ClientSampleId :

VL0805ABL01

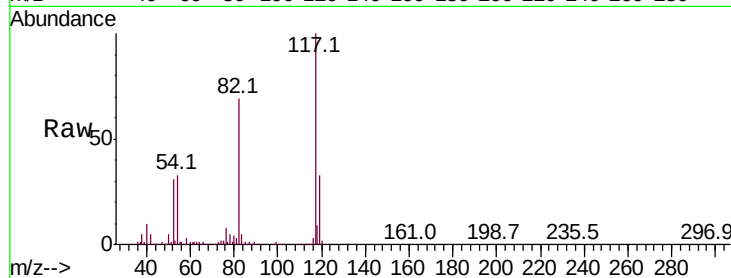
Tot Ion:117 Resp: 2434309

Ion Ratio Lower Upper

117 100

82 70.0 52.2 78.4

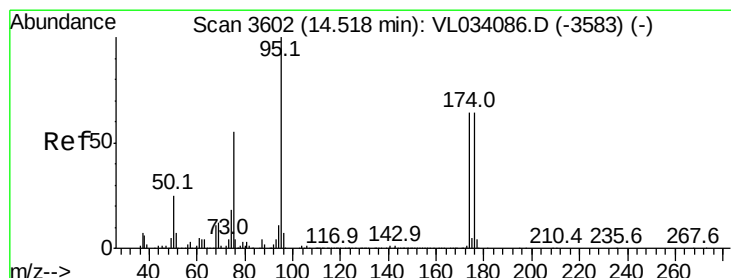
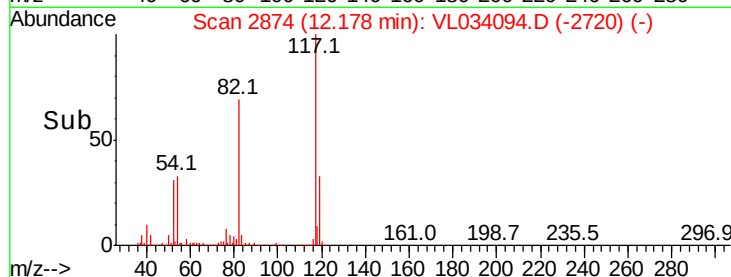
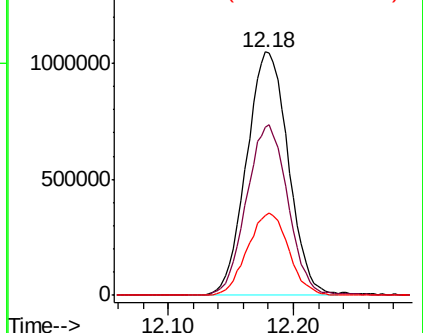
119 33.5 44.8 67.2#



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: 10.330 ppbv

RT: 14.52 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VL034094.D

Acq: 5 Aug 2019 20:29

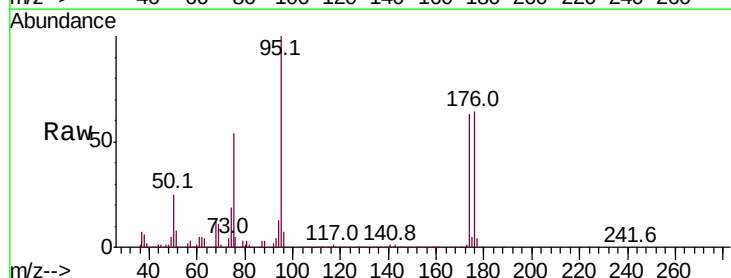
Tgt Ion: 95 Resp: 2040261

Ion Ratio Lower Upper

95 100

174 65.1 53.0 79.6

175 4.8 4.2 6.2



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

