

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112519\  
Data File : VL034402.D  
Acq On : 25 Nov 2019 11:46  
Operator : SY/AP  
Sample : VL1125ABL01  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1125ABL01

Quant Time: Nov 26 01:03:17 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LTue Nov 19 14:15:35 2019  
QLast Update : Tue Nov 19 14:15:35 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 955347   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 1864345  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.13 | 117  | 1847027  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.47  | 95    | 1569642  | 10.10    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.00% |

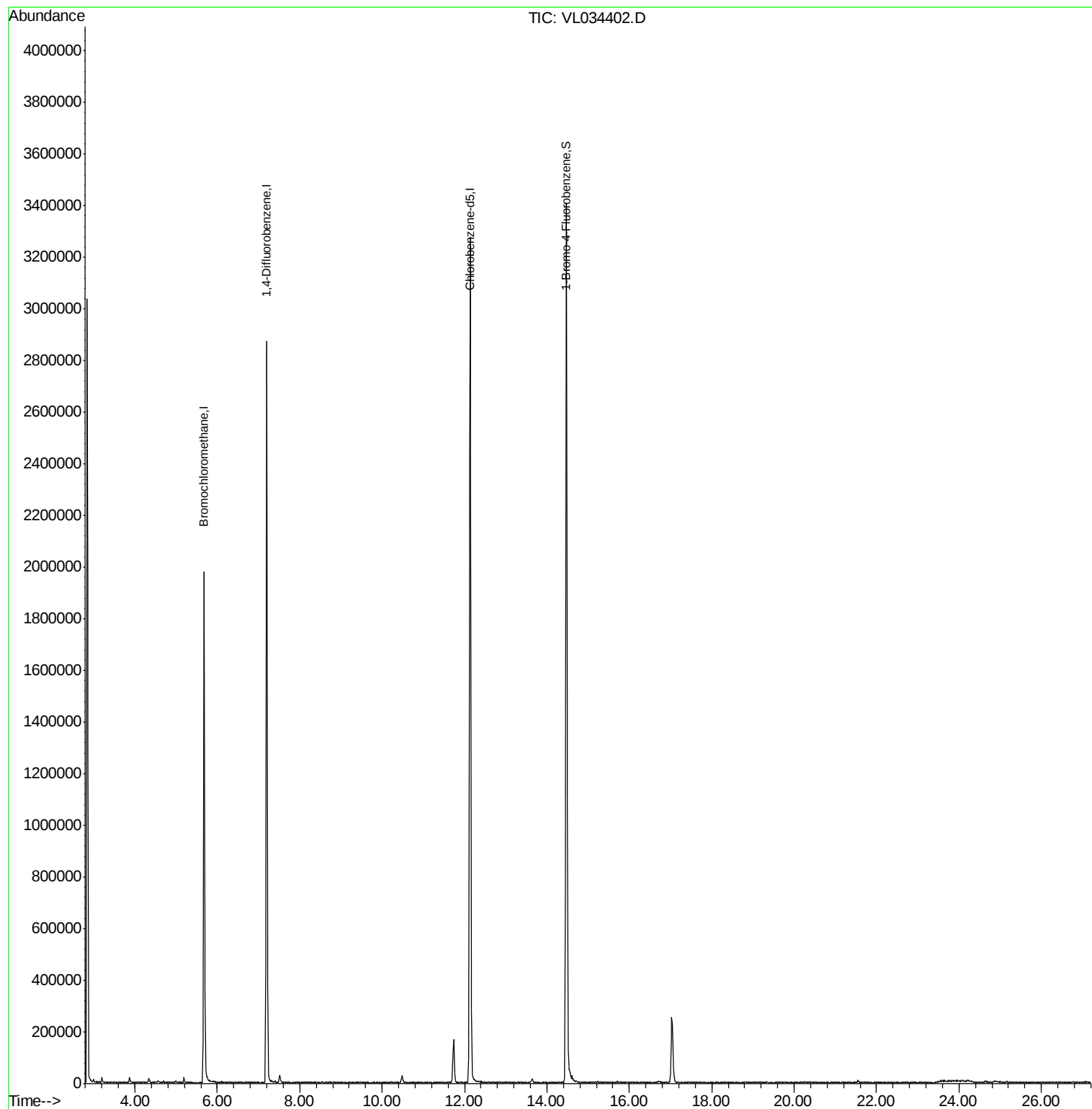
| Target Compounds | Ovalue |
|------------------|--------|
|------------------|--------|

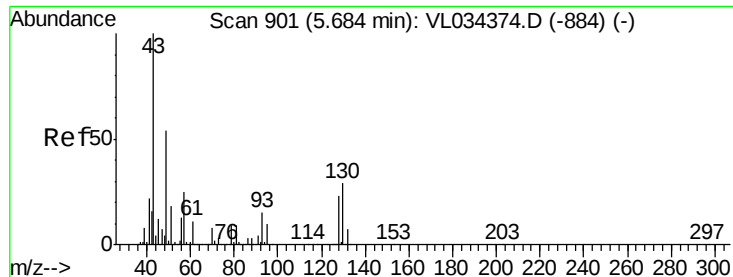
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL034402.D

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Instrument :

MSVOA\_L

ClientSampleId :

VL1125ABL01

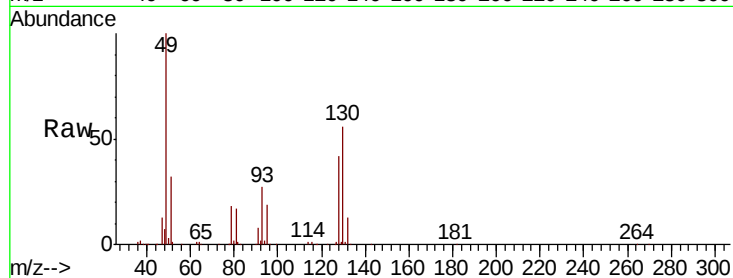
Tot Ion: 49 Resp: 955347

Ion Ratio Lower Upper

49 100

128 43.4 21.8 65.3

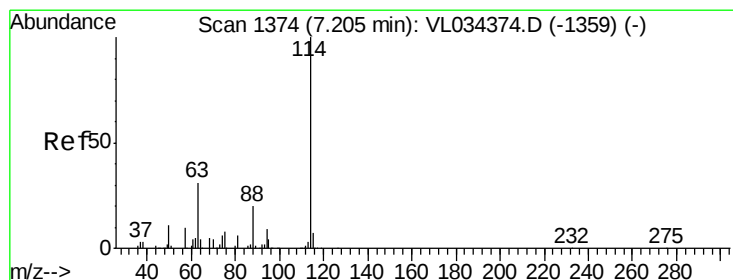
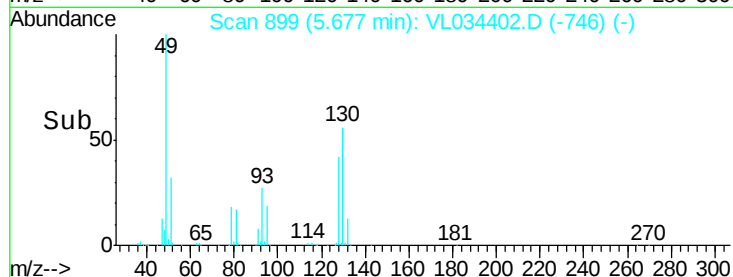
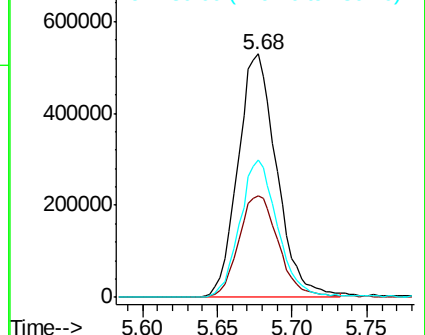
130 56.0 28.0 84.0



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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1373

Delta R.T. -0.00 min

Lab File: VL034402.D

Acq: 25 Nov 2019 11:46

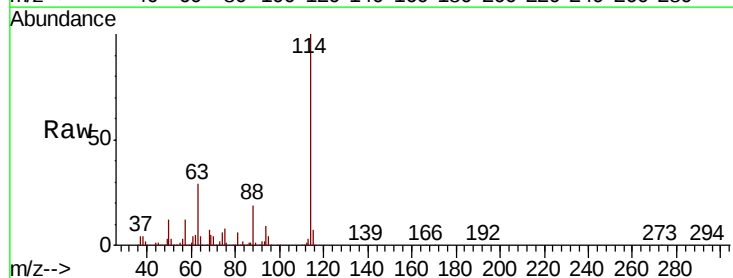
Tgt Ion: 114 Resp: 1864345

Ion Ratio Lower Upper

114 100

63 29.7 24.2 36.4

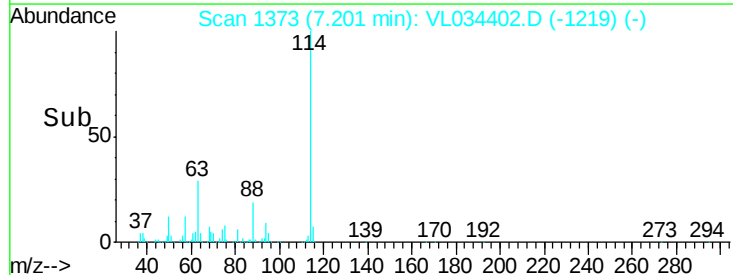
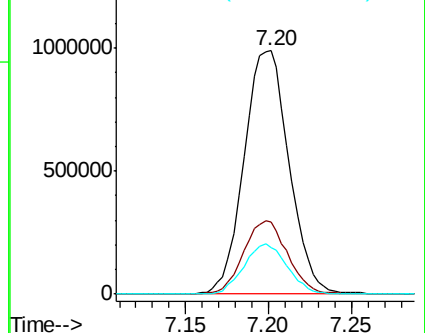
88 20.0 15.9 23.9

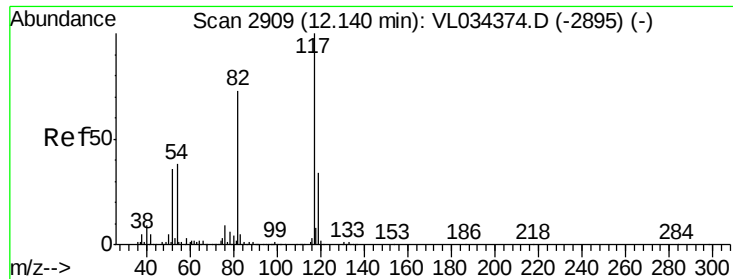


Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

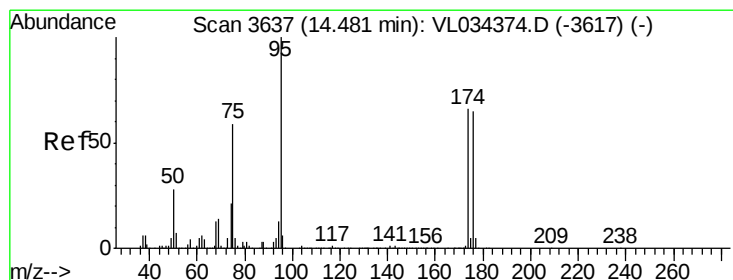
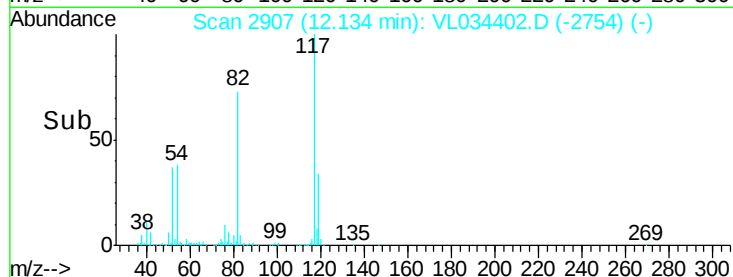
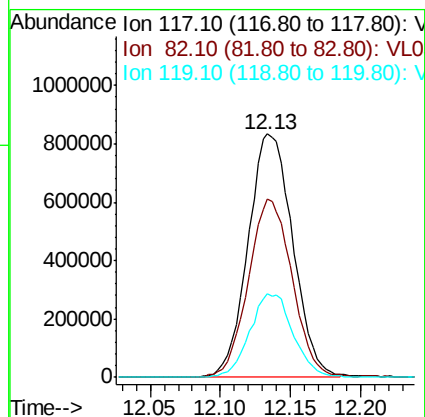
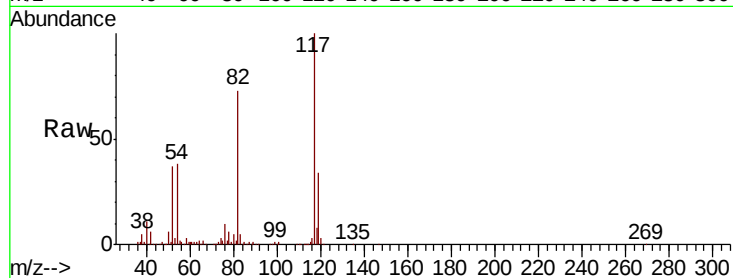




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.13 min Scan# 2907  
Delta R.T. -0.01 min  
Lab File: VL034402.D  
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Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1125ABL01

Tot Ion:117 Resp: 1847027  
Ion Ratio Lower Upper  
117 100  
82 72.1 57.5 86.3  
119 33.5 25.4 38.2



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.102 ppbv  
RT: 14.47 min Scan# 3634  
Delta R.T. -0.01 min  
Lab File: VL034402.D  
Acq: 25 Nov 2019 11:46

Tgt Ion: 95 Resp: 1569642  
Ion Ratio Lower Upper  
95 100  
174 65.5 52.2 78.2  
175 4.7 3.8 5.8

