

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\  
Data File : VL034528.D  
Acq On : 31 Dec 2019 1:46  
Operator : SY/AP  
Sample : OC121819 CAN 10269  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC121819 CAN 10269

Quant Time: Dec 31 14:35:31 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec 30 14:58:50 2019  
QLast Update : Mon Dec 30 14:58:50 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 928122   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 1813430  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.13 | 117  | 1813290  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.47  | 95    | 1481926  | 9.79     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.90% |

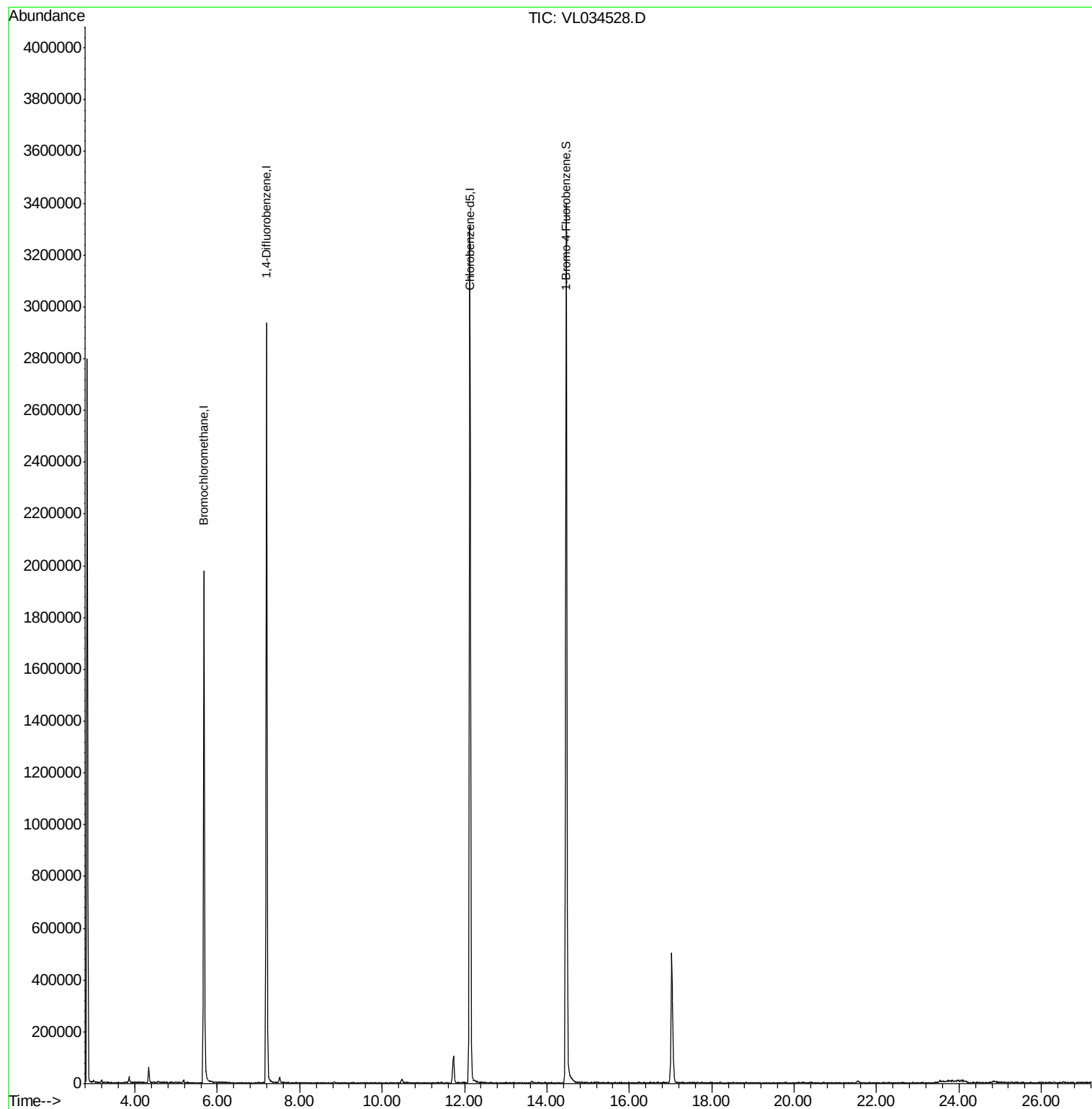
| Target Compounds | Ovalue |
|------------------|--------|
|------------------|--------|

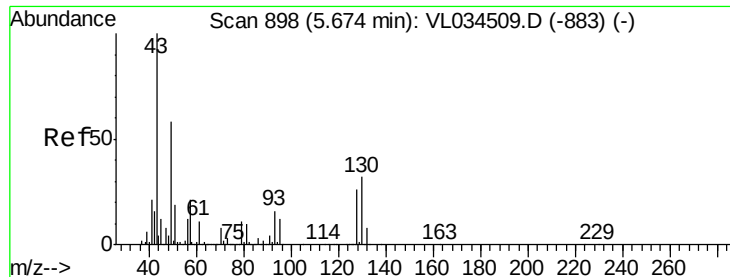
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

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Instrument :

MSVOA\_L

ClientSampleId :

QC121819 CAN 10269

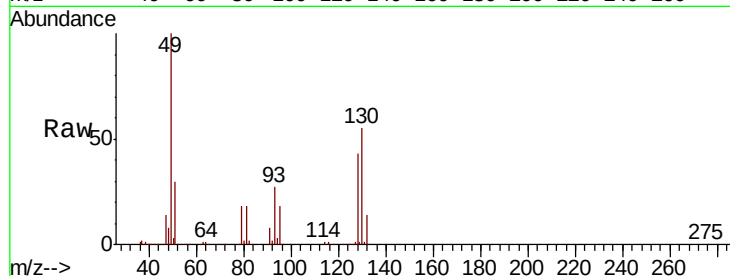
Tot Ion: 49 Resp: 928122

Ion Ratio Lower Upper

49 100

128 43.7 22.4 67.2

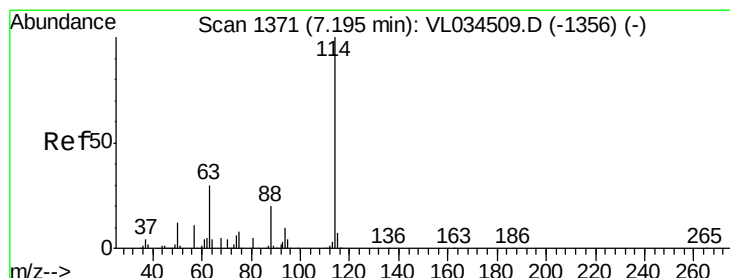
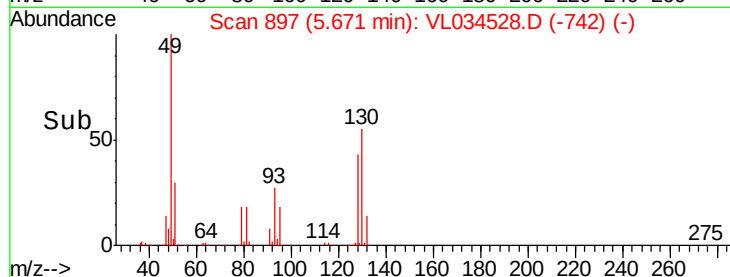
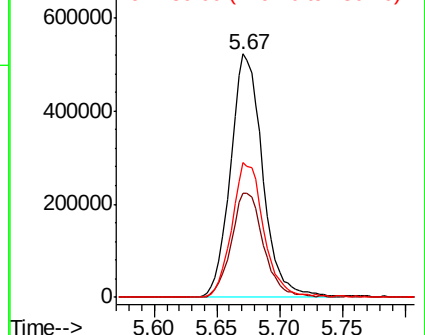
130 55.9 28.3 85.0



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# 1371

Delta R.T. 0.00 min

Lab File: VL034528.D

Acq: 31 Dec 2019 1:46

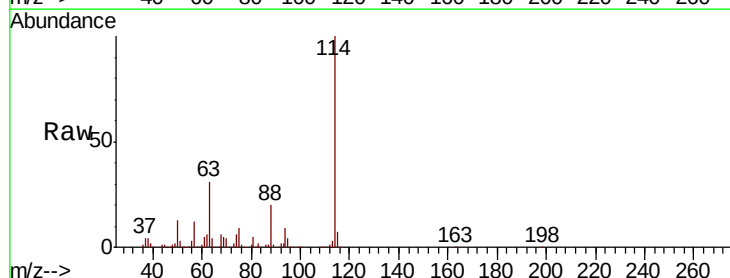
Tgt Ion: 114 Resp: 1813430

Ion Ratio Lower Upper

114 100

63 30.1 24.1 36.1

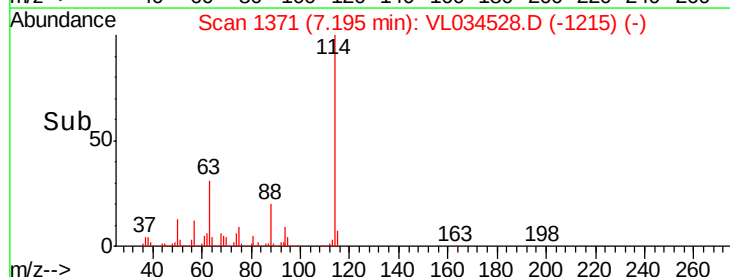
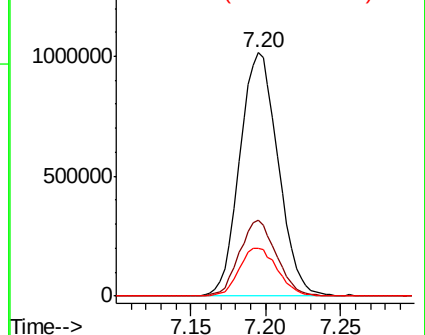
88 19.7 15.7 23.5

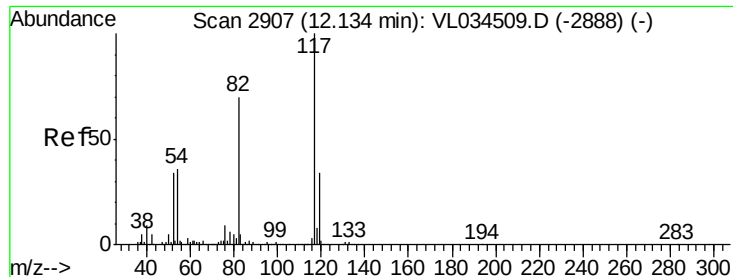


Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

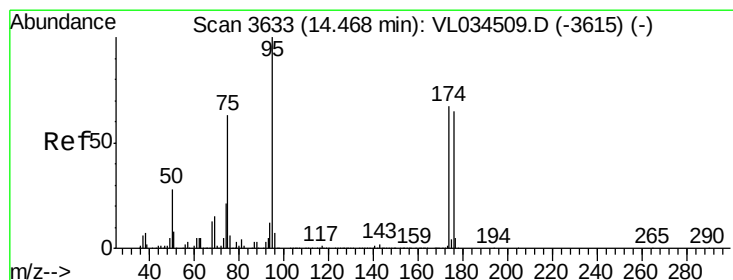
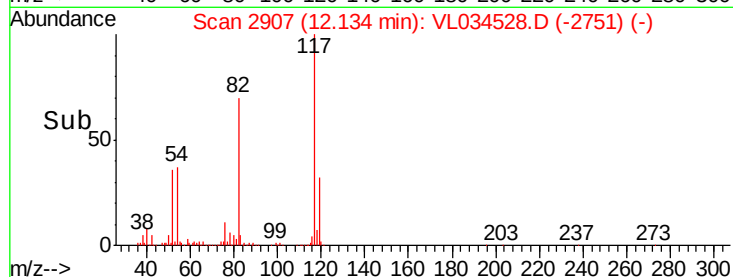
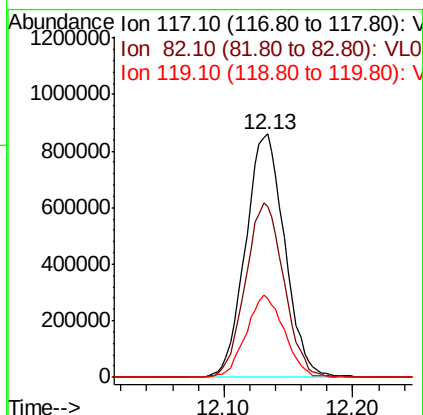
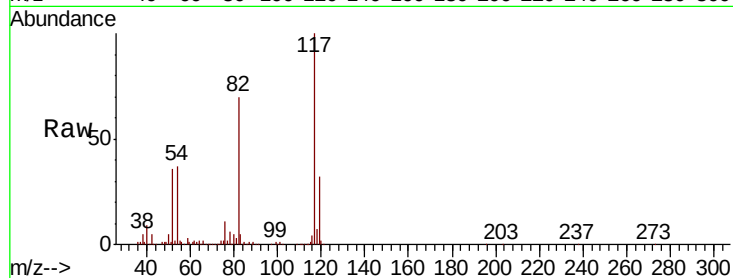




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.13 min Scan# 2907  
Delta R.T. 0.00 min  
Lab File: VL034528.D  
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Tot Ion:117 Resp: 1813290  
Ion Ratio Lower Upper  
117 100  
82 71.2 56.2 84.4  
119 33.3 27.1 40.7



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.794 ppbv  
RT: 14.47 min Scan# 3633  
Delta R.T. -0.00 min  
Lab File: VL034528.D  
Acq: 31 Dec 2019 1:46

Tgt Ion: 95 Resp: 1481926  
Ion Ratio Lower Upper  
95 100  
174 64.1 52.4 78.6  
175 4.4 3.9 5.9

