

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\  
 Data File : VL034059.D  
 Acq On : 30 Jul 2019 10:43  
 Operator : SY/AP  
 Sample : OC072519 CAN 10445  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Jul 31 02:10:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LTue Jul 30 06:55:18 2019  
 QLast Update : Tue Jul 30 06:55:18 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.71  | 49   | 1080945  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.24  | 114  | 3766477  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.18 | 117  | 2720901  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.52  | 95    | 2199937  | 10.23    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.30% |

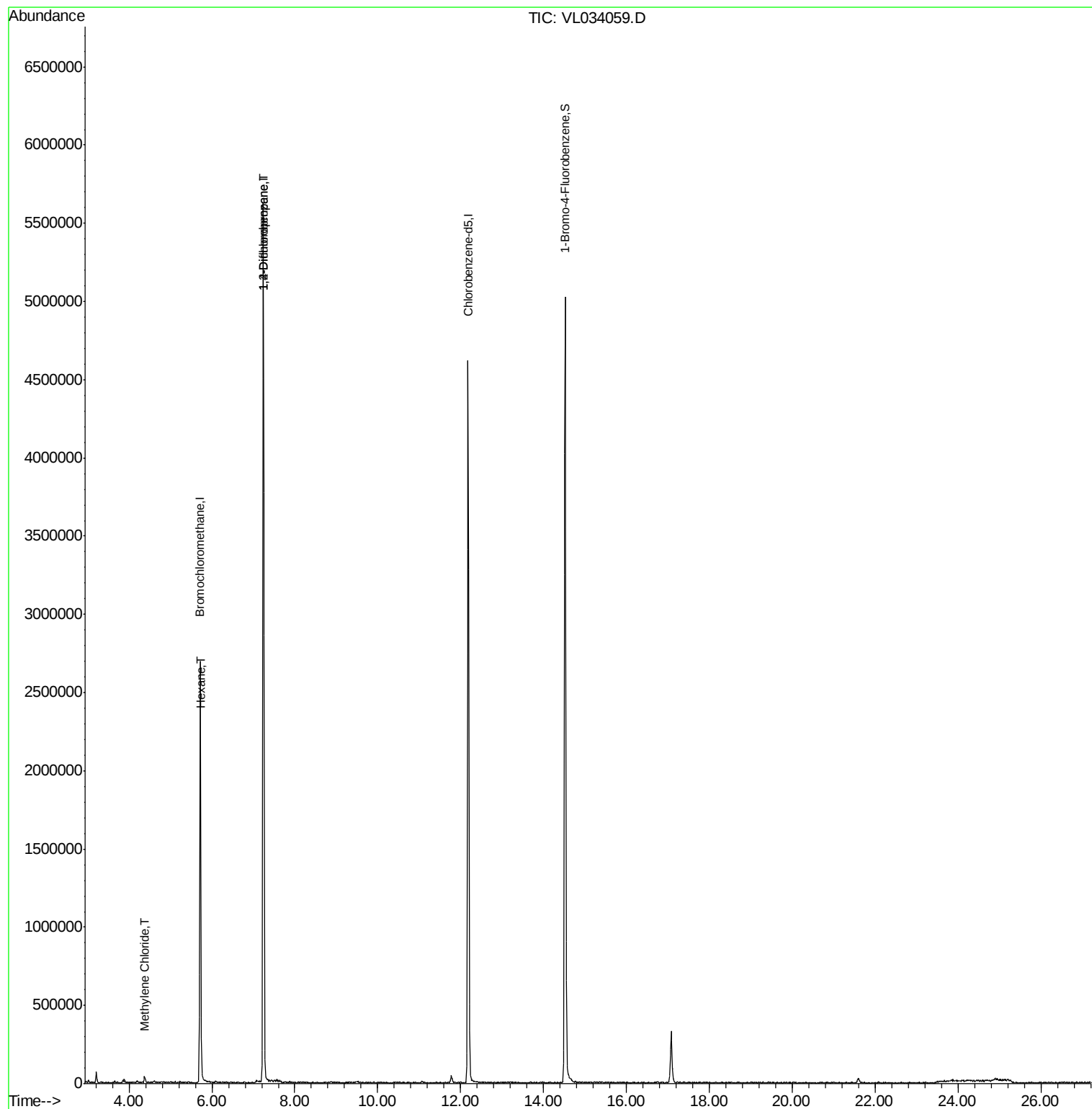
| Target Compounds        | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|------|------|----------|-------|--------|--------|
| 20) Methylene Chloride  | 4.38 | 84   | 9888     | 0.157 | ppbv # | 78     |
| 26) Hexane              | 5.73 | 57   | 4609     | 0.042 | ppbv # | 1      |
| 39) 1,2-Dichloropropane | 7.24 | 63   | 976941   | 9.601 | ppbv # | 25     |

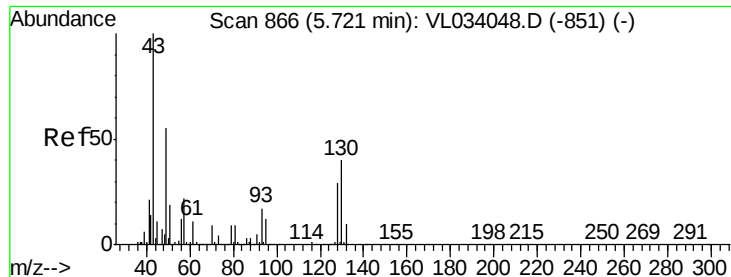
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 30 06:55:18 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 864

Delta R.T. -0.01 min

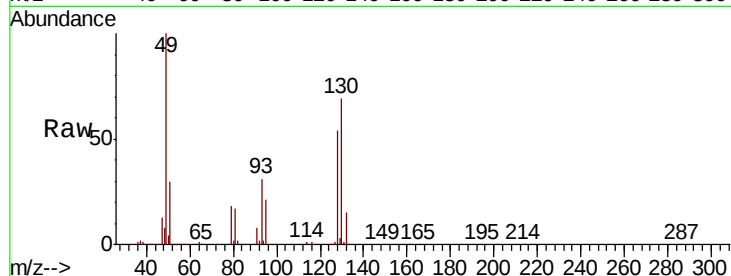
Lab File: VL034059.D

Acq: 30 Jul 2019 10:43

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 49 Resp: 1080945

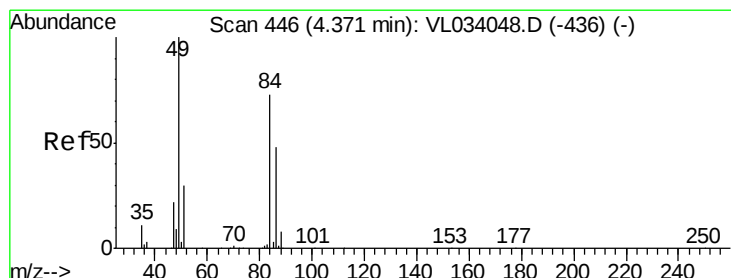
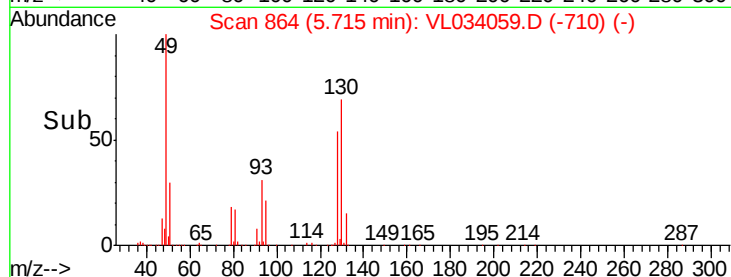
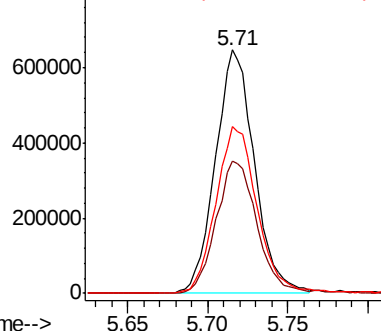
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 57.2  | 27.0  | 81.0  |
| 130 | 72.8  | 35.0  | 105.0 |



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



#20

Methylene Chloride

Concen: 0.157 ppbv

RT: 4.38 min Scan# 448

Delta R.T. 0.01 min

Lab File: VL034059.D

Acq: 30 Jul 2019 10:43

Tgt Ion: 84 Resp: 9888

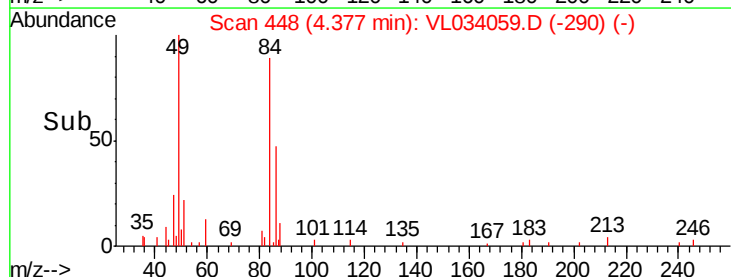
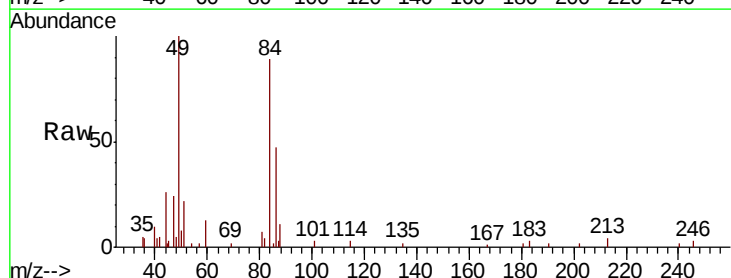
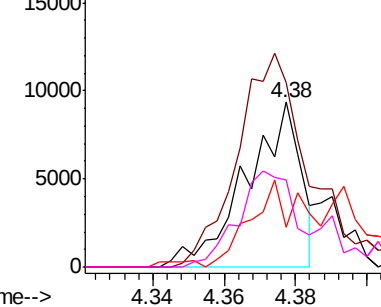
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 111.7 | 109.6 | 164.4 |
| 51  | 20.9  | 33.4  | 50.2# |
| 86  | 52.7  | 52.6  | 78.8  |

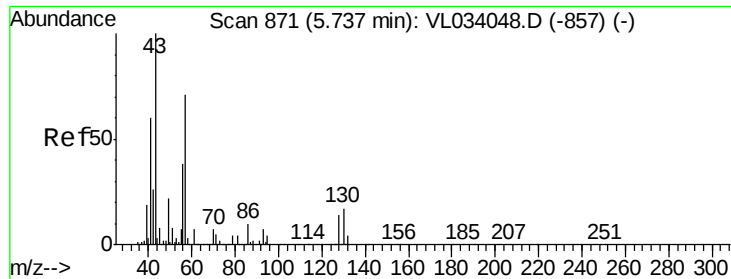
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

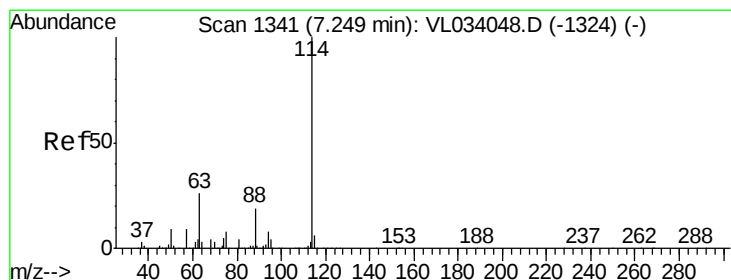
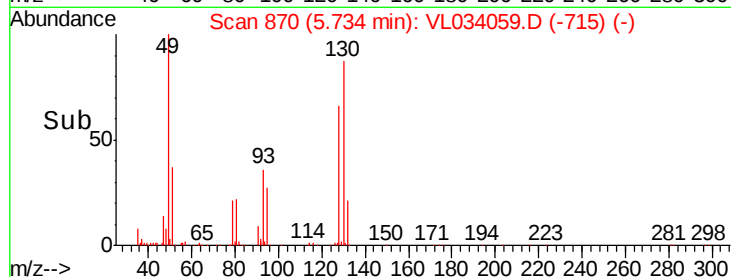
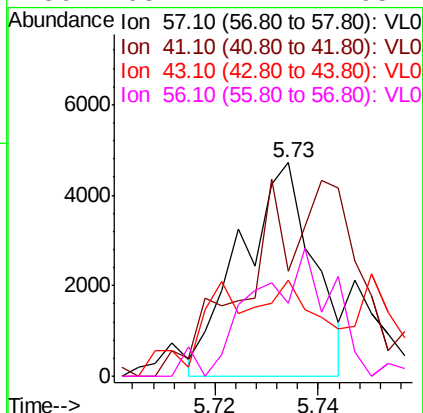
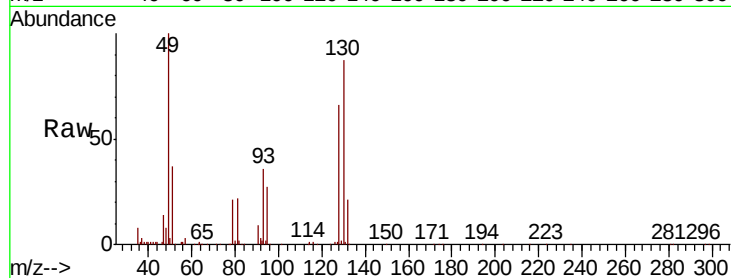




#26  
Hexane  
Concen: 0.042 ppbv  
RT: 5.73 min Scan# 870  
Delta R.T. -0.00 min  
Lab File: VL034059.D  
Acq: 30 Jul 2019 10:43

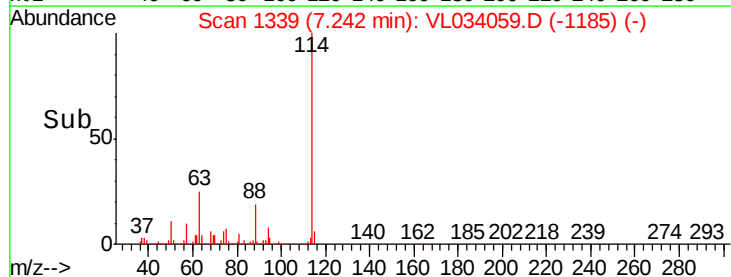
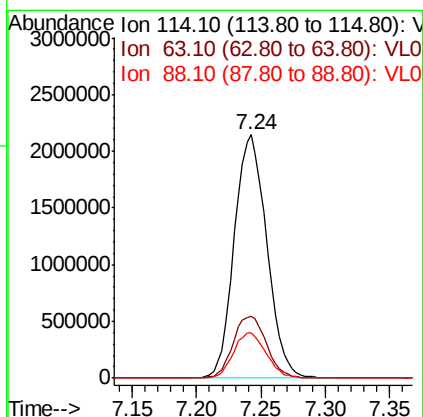
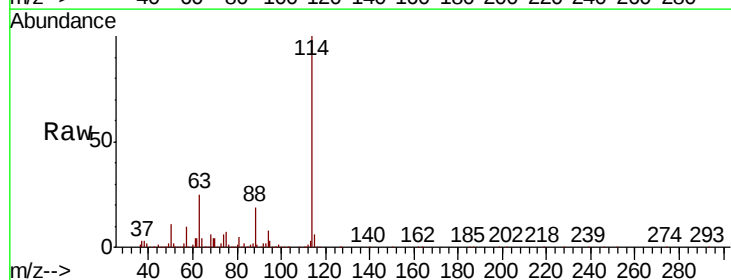
Instrument :  
MSVOA\_L  
ClientSampleId :

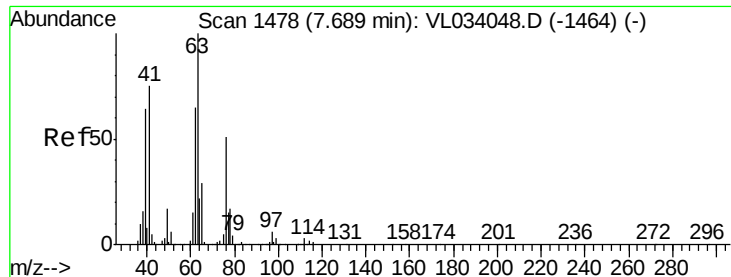
Tot Ion: 57 Resp: 4609  
Ion Ratio Lower Upper  
57 100  
41 134.8 69.0 103.6#  
43 0.0 176.6 264.8#  
56 68.1 42.2 63.4#



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.24 min Scan# 1339  
Delta R.T. -0.01 min  
Lab File: VL034059.D  
Acq: 30 Jul 2019 10:43

Tgt Ion: 114 Resp: 3766477  
Ion Ratio Lower Upper  
114 100  
63 26.1 21.0 31.6  
88 18.7 14.7 22.1

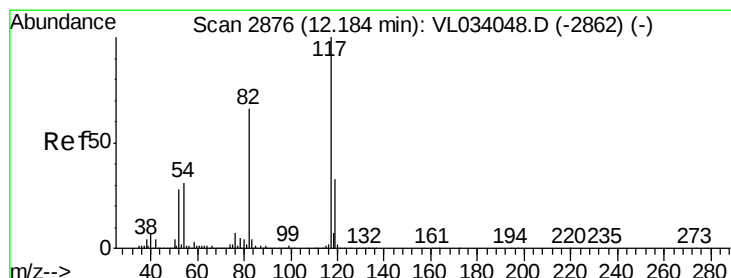
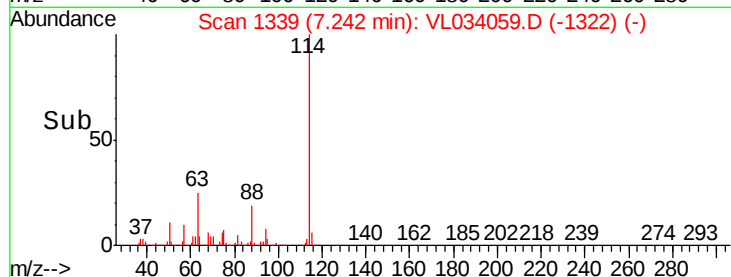
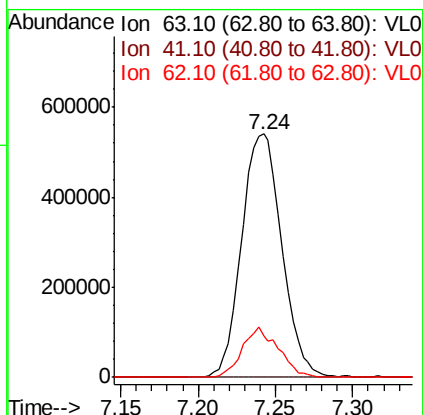
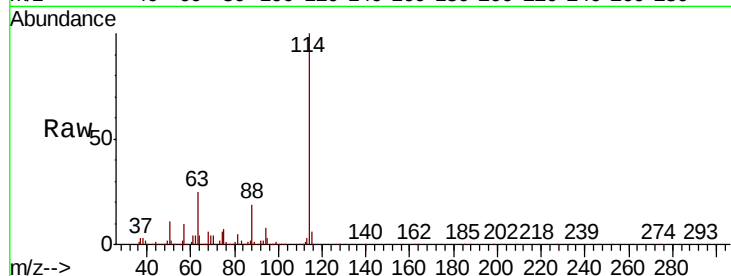




#39  
 1,2-Dichloropropane  
 Concen: 9.601 ppbv  
 RT: 7.24 min Scan# 1339  
 Delta R.T. -0.45 min  
 Lab File: VL034059.D  
 Acq: 30 Jul 2019 10:43

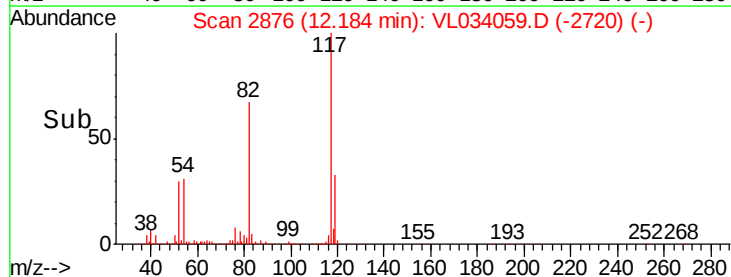
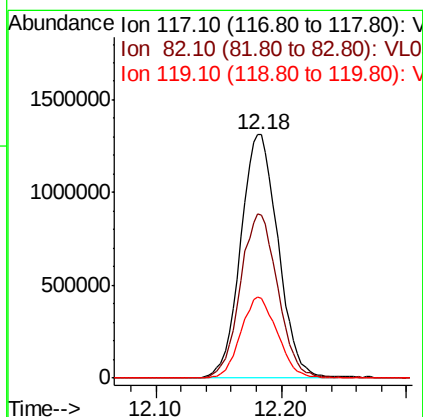
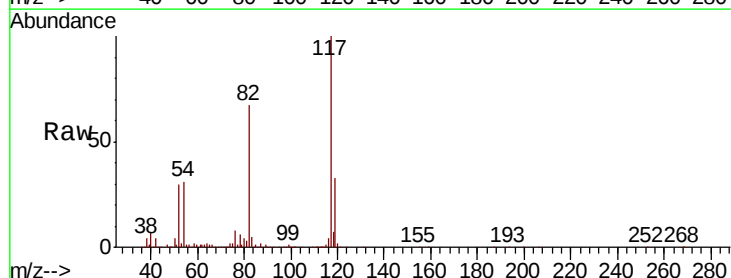
Instrument :  
 MSVOA\_L  
 ClientSampleId :

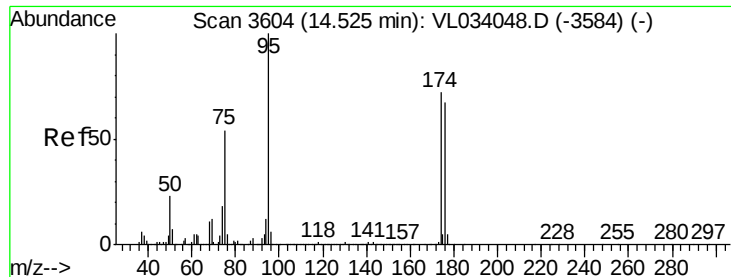
Tot Ion: 63 Resp: 976941  
 Ion Ratio Lower Upper  
 63 100  
 41 0.0 59.8 89.8#  
 62 16.9 52.2 78.2#



#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.18 min Scan# 2876  
 Delta R.T. 0.00 min  
 Lab File: VL034059.D  
 Acq: 30 Jul 2019 10:43

Tgt Ion: 117 Resp: 2720901  
 Ion Ratio Lower Upper  
 117 100  
 82 67.8 49.8 74.8  
 119 32.7 43.0 64.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.229 ppbv

RT: 14.52 min Scan# 3602

Delta R.T. -0.01 min

Lab File: VL034059.D

Acq: 30 Jul 2019 10:43

Instrument :

MSVOA\_L

ClientSampleId :

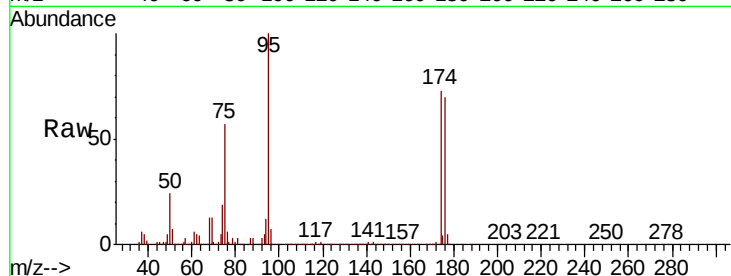
Tot Ion: 95 Resp: 2199937

Ion Ratio Lower Upper

95 100

174 72.8 57.6 86.4

175 5.2 4.1 6.1



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

