

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040921\  
 Data File : VL036783.D  
 Acq On : 9 Apr 2021 20:44  
 Operator : SY/AP  
 Sample : OC040921 CAN 10058  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 QC040921 CAN 10058

Quant Time: Apr 10 02:01:57 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Mar 25 09:42:40 2021  
 QLast Update : Thu Mar 25 09:42:40 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1308832  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 3115637  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 2471530  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 1622399  | 8.24     | ppbv | -0.01  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 82.40% |

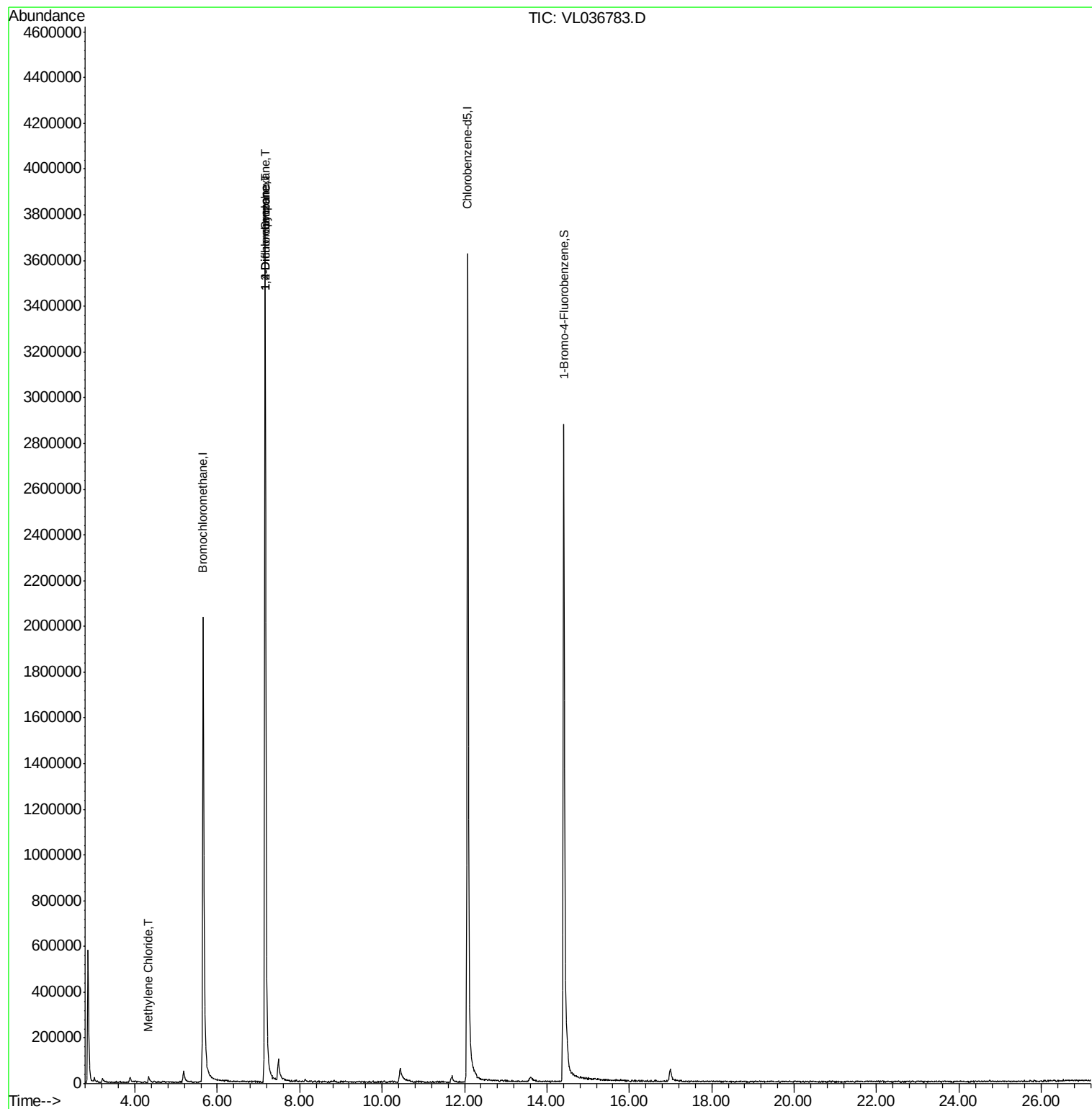
| Target Compounds        | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|------|------|----------|-------|--------|--------|
| 20) Methylene Chloride  | 4.33 | 84   | 6854     | 0.114 | ppbv # | 62     |
| 30) Cyclohexane         | 7.15 | 84   | 6824     | 0.059 | ppbv # | 1      |
| 39) 1,2-Dichloropropane | 7.16 | 63   | 820673   | 7.041 | ppbv # | 24     |

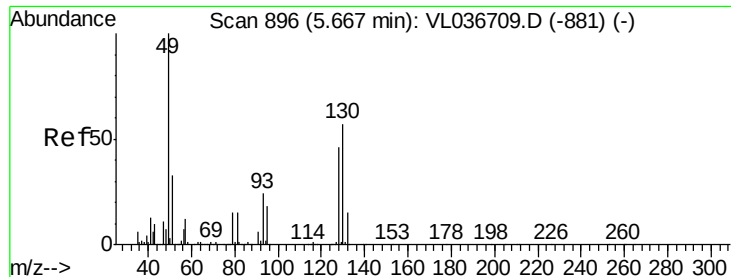
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 25 09:42:40 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL036783.D

Acq: 9 Apr 2021 20:44

Instrument :

MSVOA\_L

ClientSampleId :

QC040921 CAN 10058

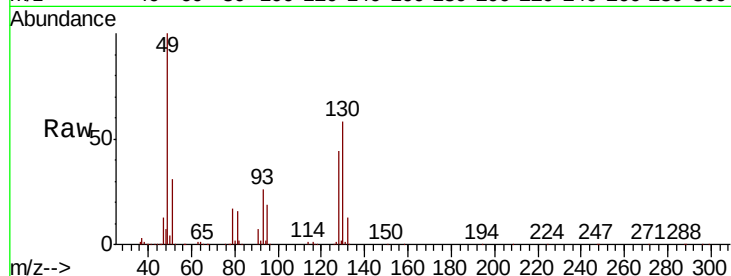
Tot Ion: 49 Resp: 1308832

Ion Ratio Lower Upper

49 100

128 44.6 23.5 70.6

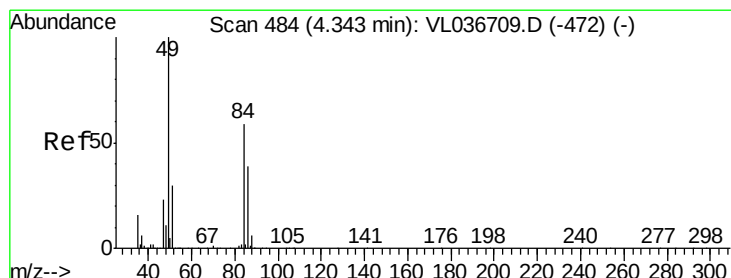
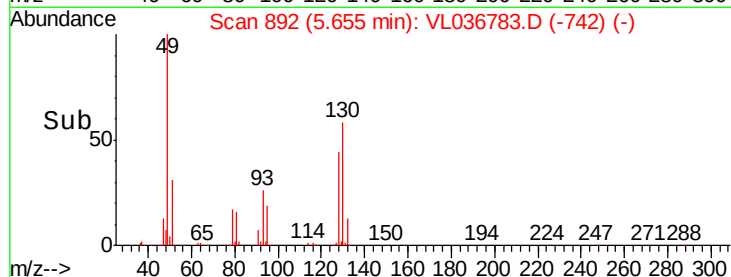
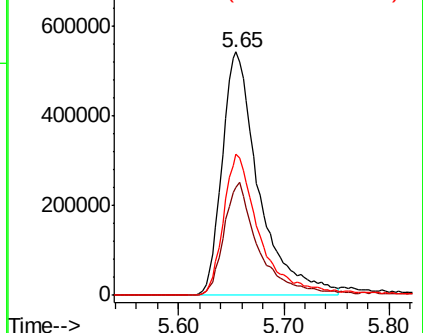
130 58.5 29.1 87.4



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: 0.114 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL036783.D

Acq: 9 Apr 2021 20:44

Tgt Ion: 84 Resp: 6854

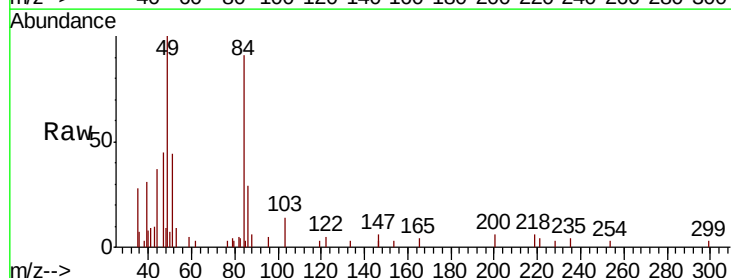
Ion Ratio Lower Upper

84 100

49 93.9 122.9 184.3#

51 48.2 36.9 55.3

86 28.3 48.2 72.4#

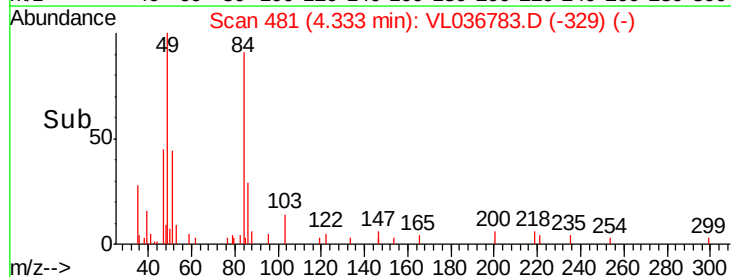
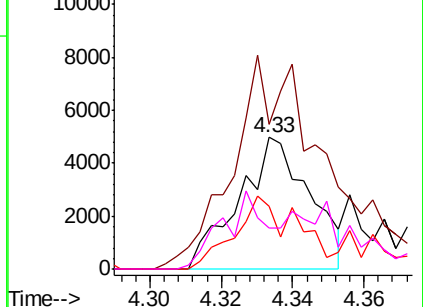


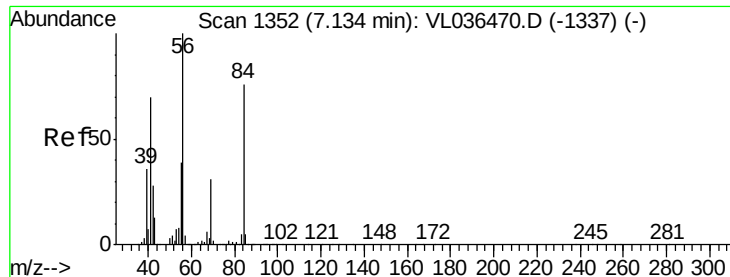
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

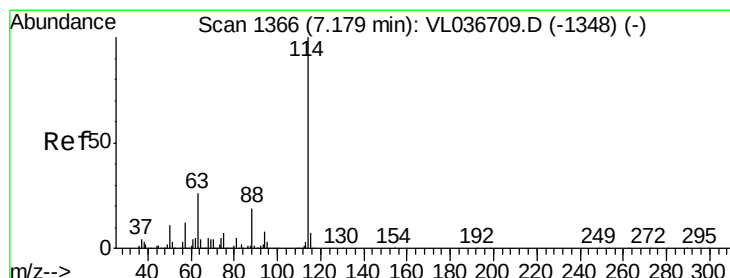
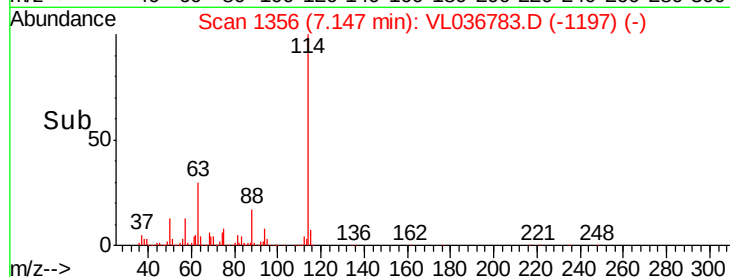
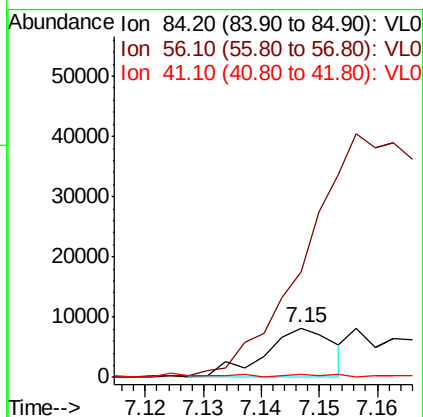
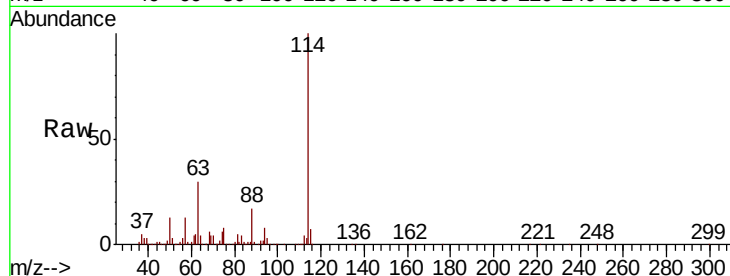




#30  
Cyclohexane  
Concen: 0.059 ppbv  
RT: 7.15 min Scan# 1356  
Delta R.T. 0.01 min  
Lab File: VL036783.D  
Acq: 9 Apr 2021 20:44

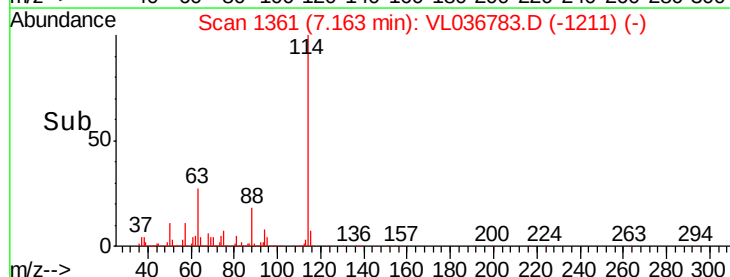
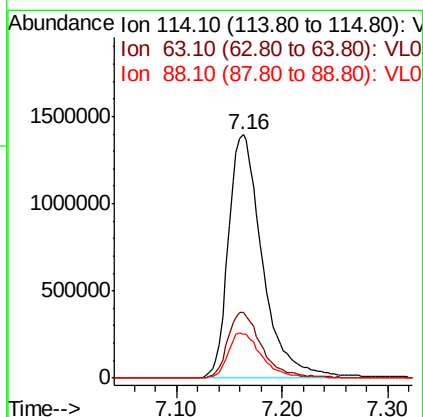
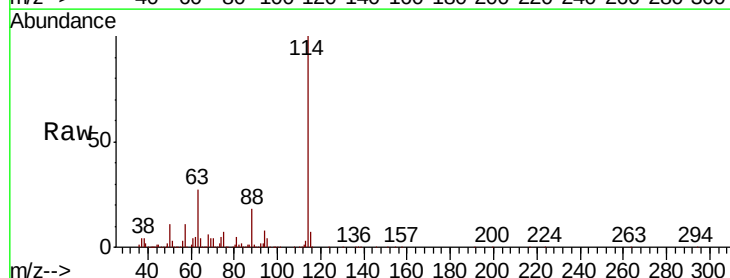
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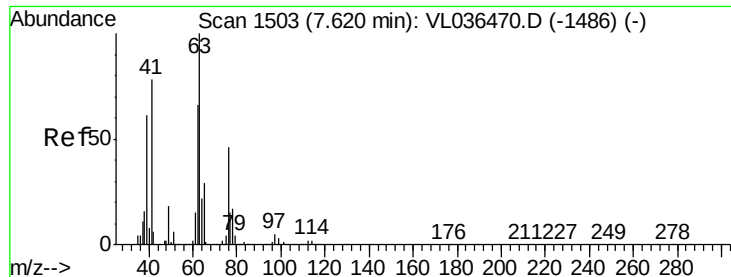
Tot Ion: 84 Resp: 6824  
Ion Ratio Lower Upper  
84 100  
56 0.0 114.6 171.8#  
41 11.9 75.3 112.9#



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.16 min Scan# 1361  
Delta R.T. -0.02 min  
Lab File: VL036783.D  
Acq: 9 Apr 2021 20:44

Tgt Ion: 114 Resp: 3115637  
Ion Ratio Lower Upper  
114 100  
63 27.6 22.4 33.6  
88 18.8 15.4 23.0

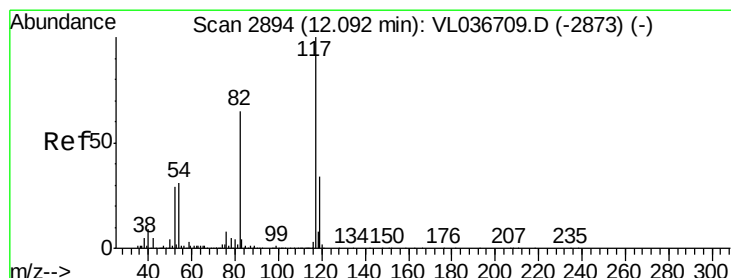
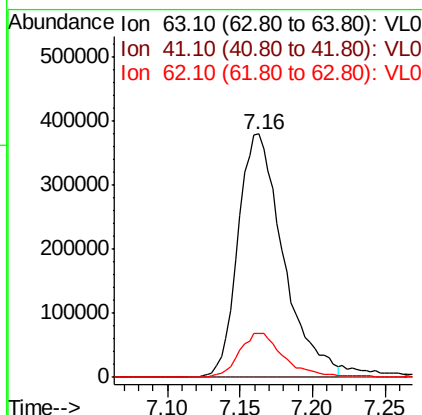
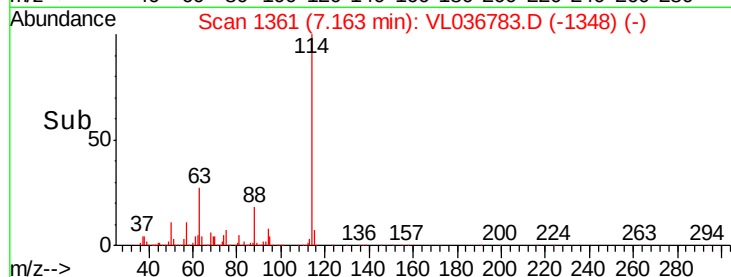
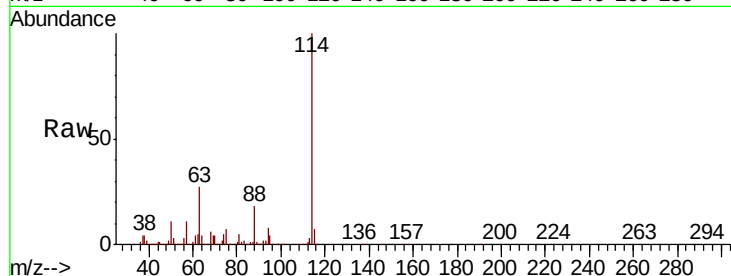




#39  
 1,2-Dichloropropane  
 Concen: 7.041 ppbv  
 RT: 7.16 min Scan# 1361  
 Delta R.T. -0.46 min  
 Lab File: VL036783.D  
 Acq: 9 Apr 2021 20:44

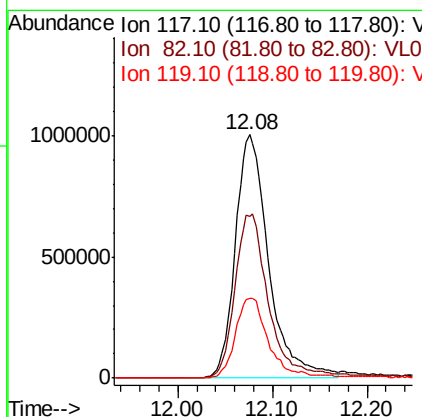
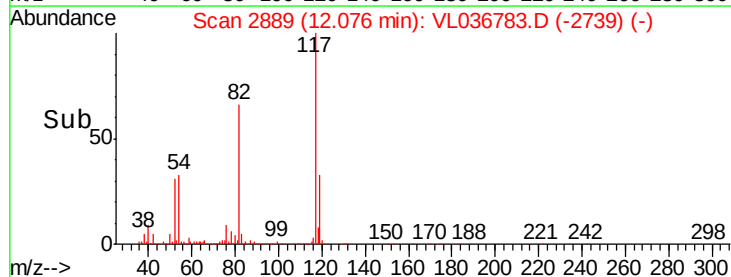
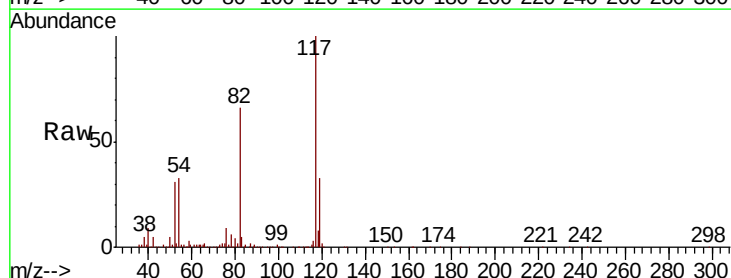
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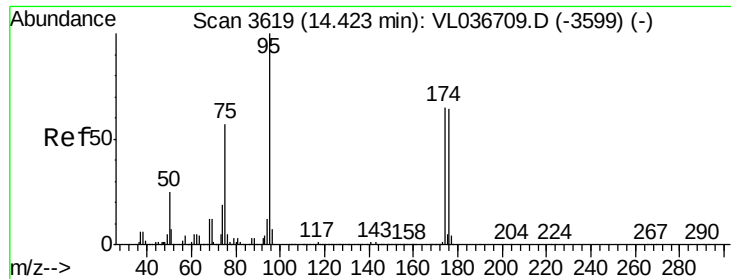
Tot Ion: 63 Resp: 820673  
 Ion Ratio Lower Upper  
 63 100  
 41 0.0 62.4 93.6#  
 62 18.2 52.8 79.2#



#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.08 min Scan# 2889  
 Delta R.T. -0.02 min  
 Lab File: VL036783.D  
 Acq: 9 Apr 2021 20:44

Tgt Ion: 117 Resp: 2471530  
 Ion Ratio Lower Upper  
 117 100  
 82 69.1 57.4 86.0  
 119 33.8 47.4 71.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 8.236 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.01 min

Lab File: VL036783.D

Acq: 9 Apr 2021 20:44

Instrument :

MSVOA\_L

ClientSampleId :

QC040921 CAN 10058

Tot Ion: 95 Resp: 1622399

Ion Ratio Lower Upper

95 100

174 62.3 51.0 76.6

175 5.0 3.9 5.9

