

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\  
 Data File : VL037221.D  
 Acq On : 22 Jun 2021 17:48  
 Operator : SY/AP  
 Sample : OC062121 CAN 10792  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Jun 23 01:41:10 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Jun 16 14:06:32 2021  
 QLast Update : Wed Jun 16 14:06:32 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1548026  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 4511349  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 3859091  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 2934752  | 10.04    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.40% |

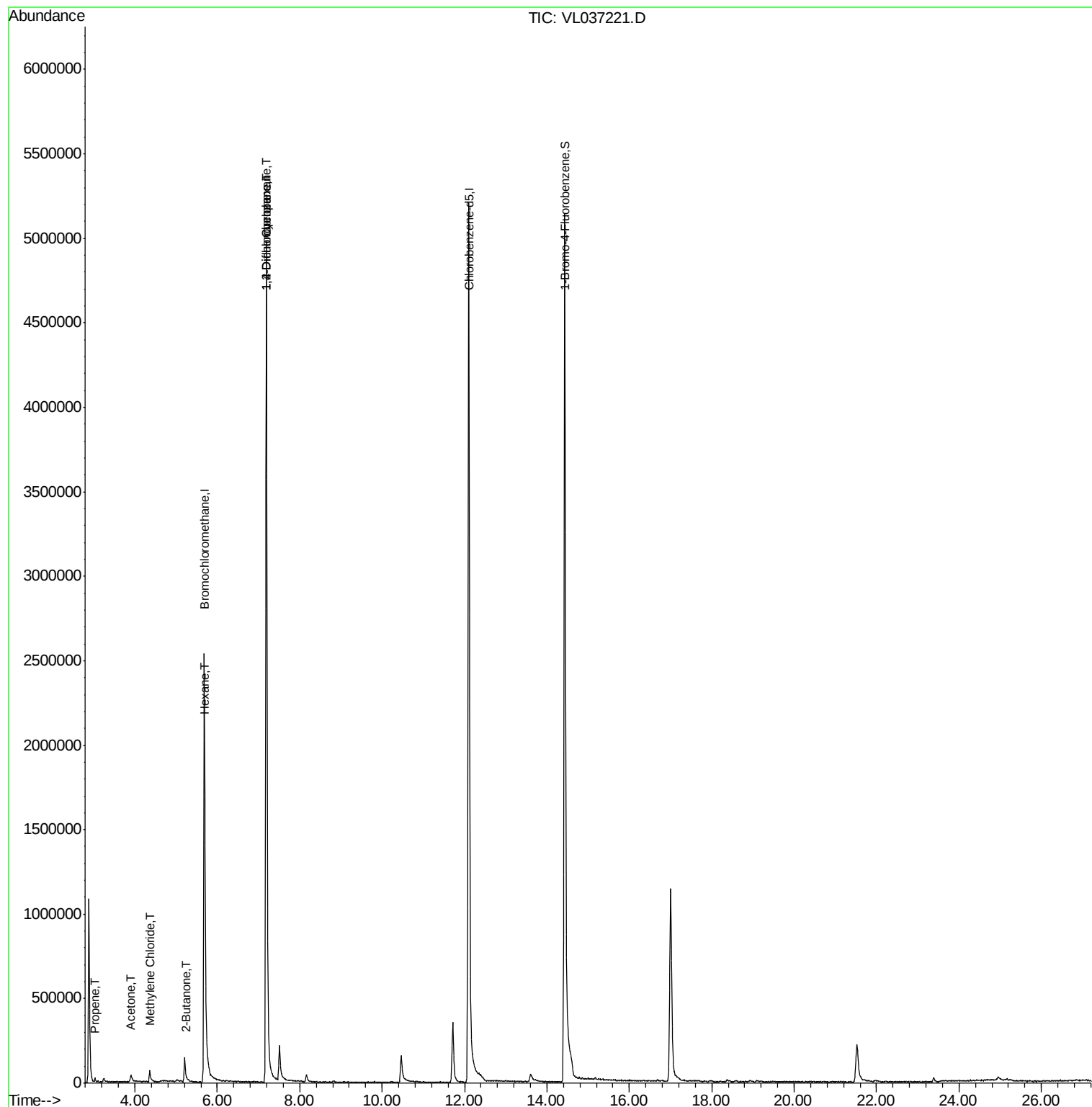
| Target Compounds        |      |    |         |              | Ovalue |
|-------------------------|------|----|---------|--------------|--------|
| 9) Propene              | 3.03 | 41 | 6600    | 0.069 ppbv   | 94     |
| 15) Acetone             | 3.90 | 43 | 18761   | 0.107 ppbv # | 45     |
| 20) Methylene Chloride  | 4.36 | 84 | 18472   | 0.177 ppbv   | 93     |
| 26) Hexane              | 5.70 | 57 | 7826    | 0.041 ppbv # | 40     |
| 30) Cyclohexane         | 7.18 | 84 | 3374    | 0.021 ppbv # | 1      |
| 34) 2-Butanone          | 5.25 | 43 | 4355    | 0.025 ppbv # | 52     |
| 39) 1,2-Dichloropropane | 7.19 | 63 | 1089268 | 8.035 ppbv # | 23     |

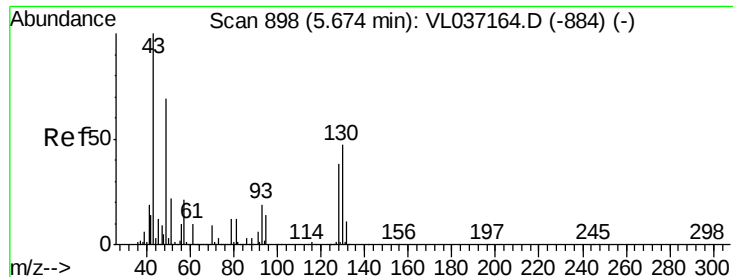
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M  
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QLast Update : Wed Jun 16 14:06:32 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.01 min

Lab File: VL037221.D

Acq: 22 Jun 2021 17:48

Instrument :  
MSVOA\_L  
ClientSampleId :

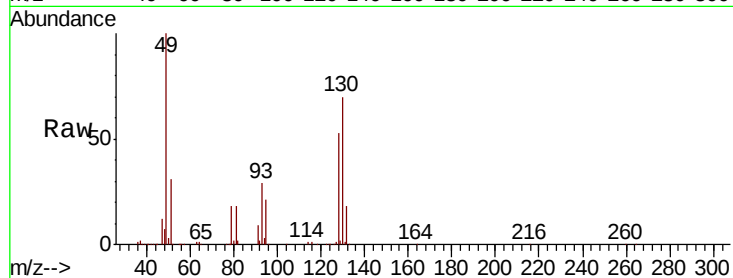
Tot Ion: 49 Resp: 1548026

Ion Ratio Lower Upper

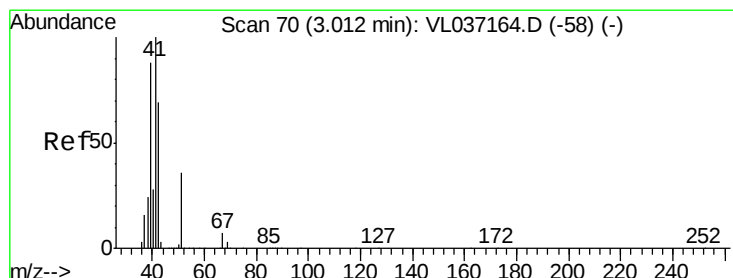
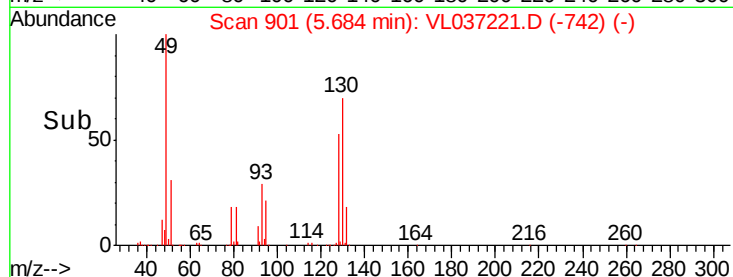
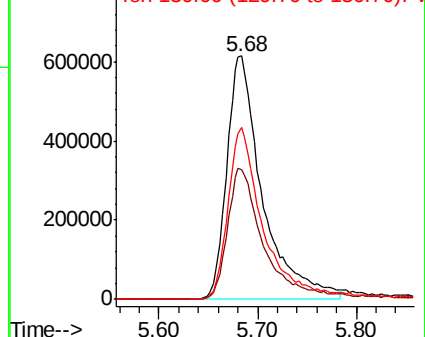
49 100

128 56.1 29.3 88.0

130 72.7 35.9 107.8



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



#9

Propene

Concen: 0.069 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL037221.D

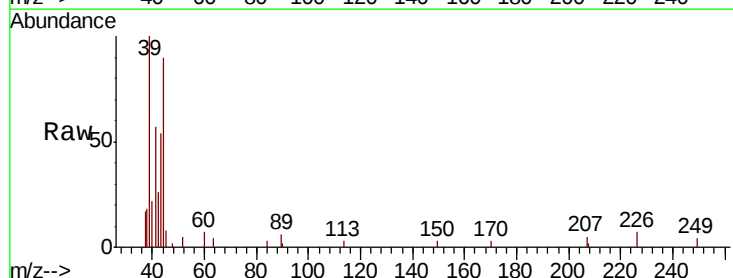
Acq: 22 Jun 2021 17:48

Tgt Ion: 41 Resp: 6600

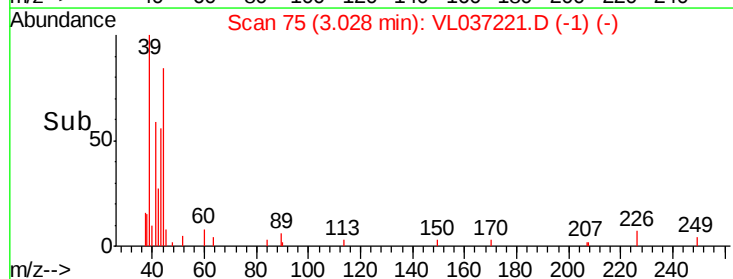
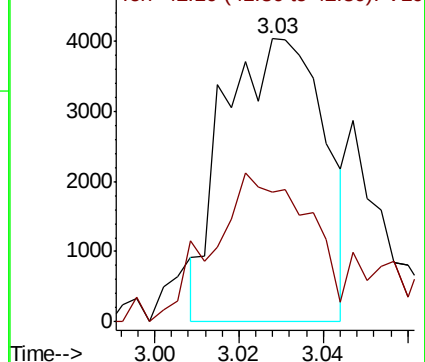
Ion Ratio Lower Upper

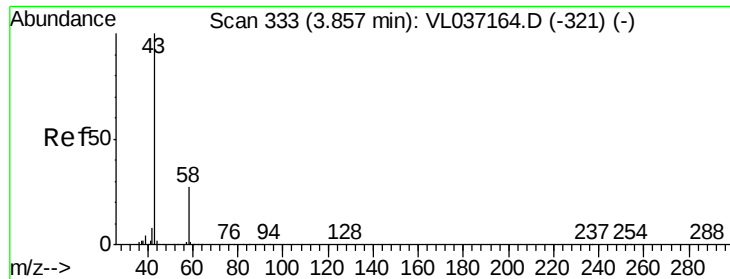
41 100

42 73.3 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0  
Ion 42.10 (41.80 to 42.80): VL0





#15

Acetone

Concen: 0.107 ppbv

RT: 3.90 min Scan# 345

Delta R.T. 0.04 min

Lab File: VL037221.D

Acq: 22 Jun 2021 17:48

Instrument :

MSVOA\_L

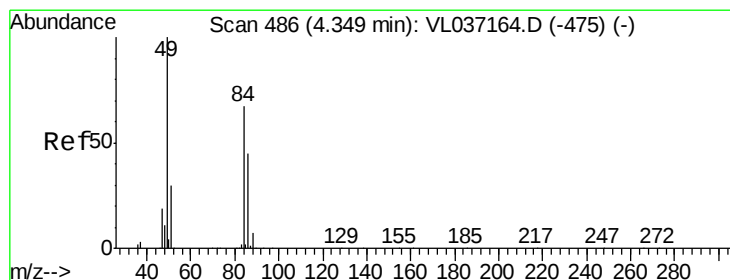
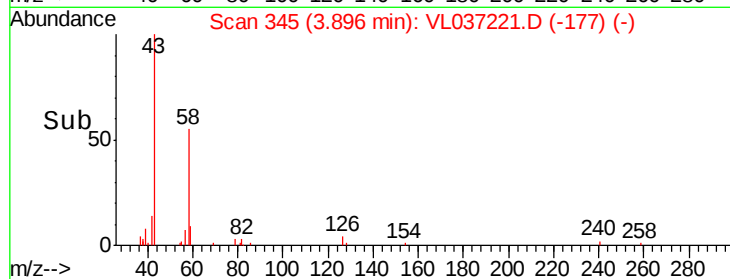
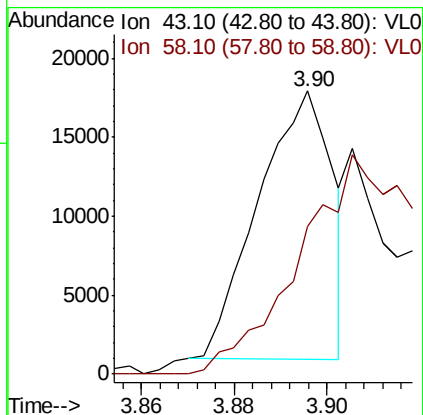
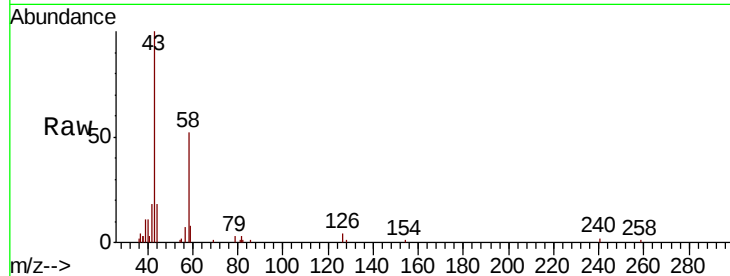
ClientSampleId :

Tot Ion: 43 Resp: 18761

Ion Ratio Lower Upper

43 100

58 0.0 23.7 35.5#



#20

Methylene Chloride

Concen: 0.177 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.01 min

Lab File: VL037221.D

Acq: 22 Jun 2021 17:48

Tgt Ion: 84 Resp: 18472

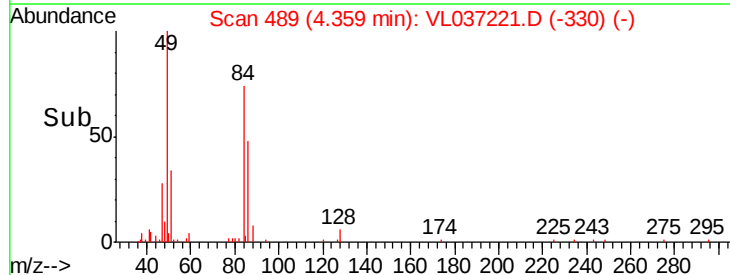
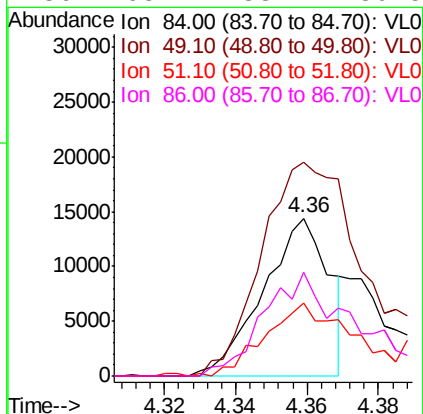
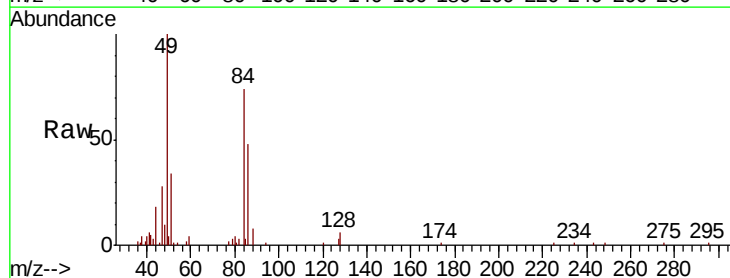
Ion Ratio Lower Upper

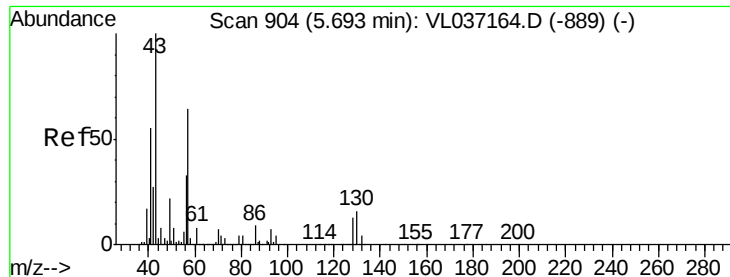
84 100

49 135.1 119.7 179.5

51 45.9 36.1 54.1

86 65.4 53.7 80.5

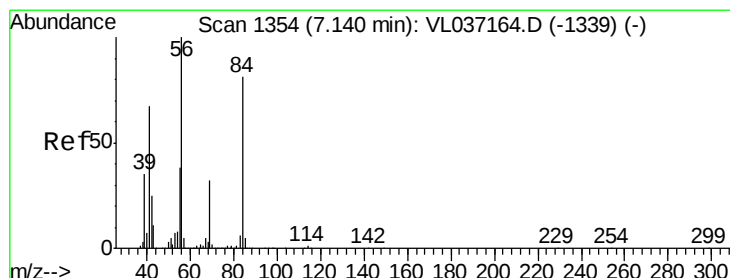
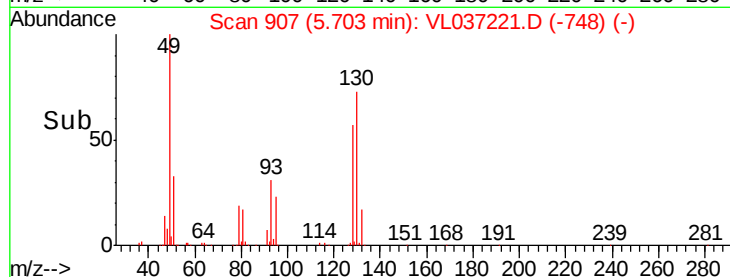
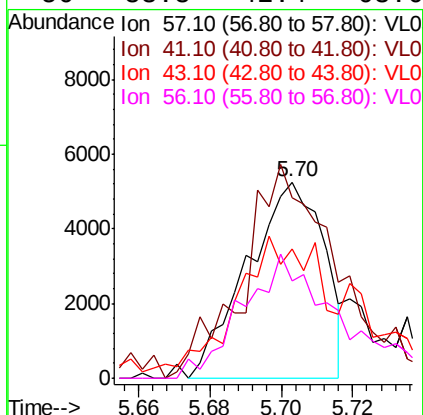
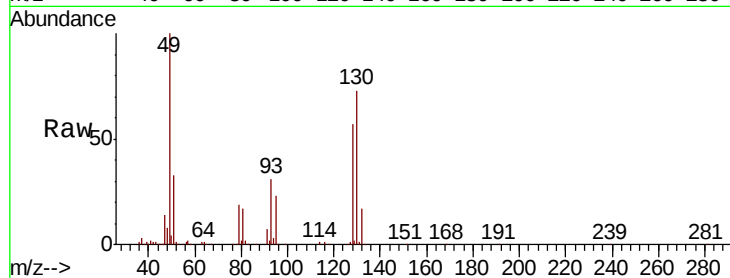




#26  
Hexane  
Concen: 0.041 ppbv  
RT: 5.70 min Scan# 907  
Delta R.T. 0.01 min  
Lab File: VL037221.D  
Acq: 22 Jun 2021 17:48

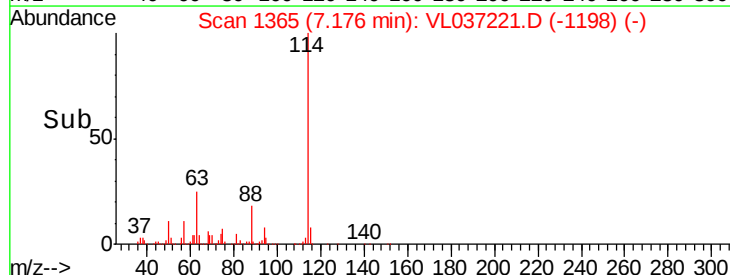
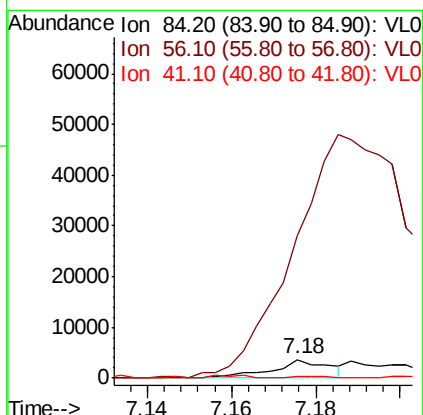
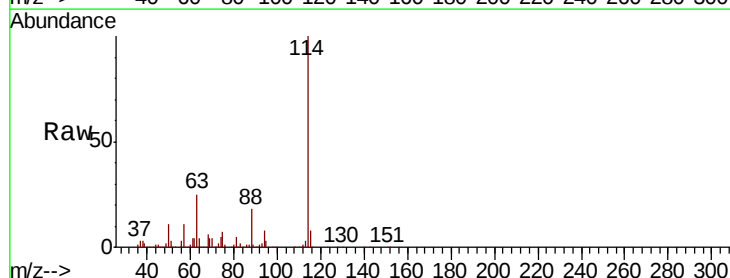
Instrument :  
MSVOA\_L  
ClientSampled :

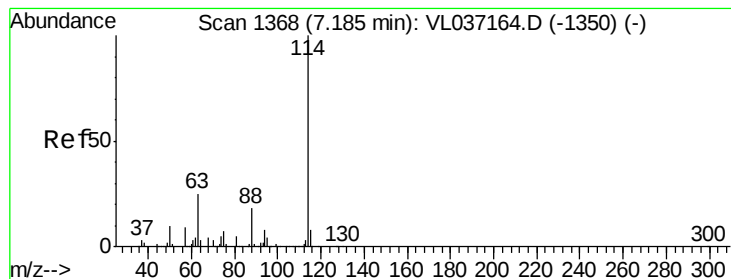
Tot Ion: 57 Resp: 7826  
Ion Ratio Lower Upper  
57 100  
41 157.3 73.5 110.3#  
43 116.9 170.7 256.1#  
56 83.8 42.4 63.6#



#30  
Cyclohexane  
Concen: 0.021 ppbv  
RT: 7.18 min Scan# 1365  
Delta R.T. 0.04 min  
Lab File: VL037221.D  
Acq: 22 Jun 2021 17:48

Tgt Ion: 84 Resp: 3374  
Ion Ratio Lower Upper  
84 100  
56 0.0 107.7 161.5#  
41 0.0 69.0 103.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VL037221.D

Acq: 22 Jun 2021 17:48

Instrument :

MSVOA\_L

ClientSampleId :

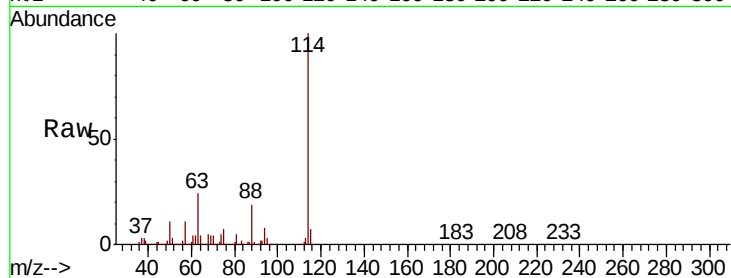
Tot Ion:114 Resp: 4511349

Ion Ratio Lower Upper

114 100

63 24.7 19.6 29.4

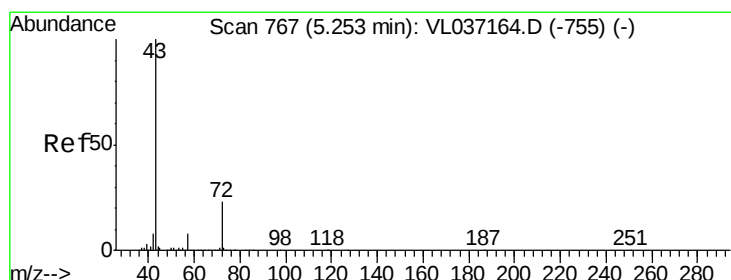
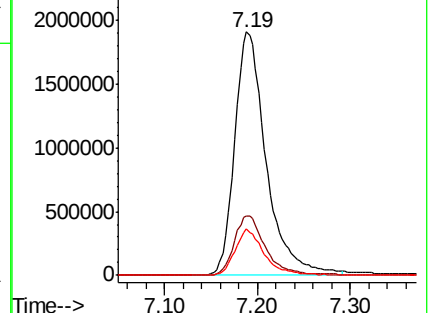
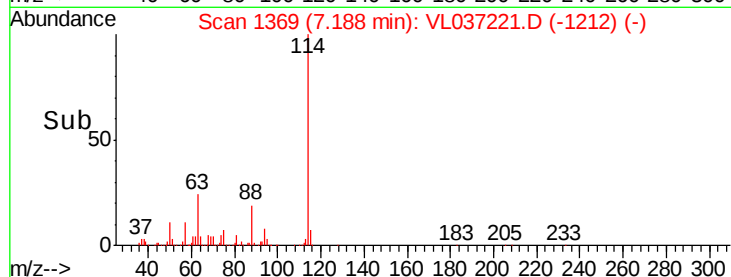
88 18.1 14.2 21.2



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



#34

2-Butanone

Concen: 0.025 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.00 min

Lab File: VL037221.D

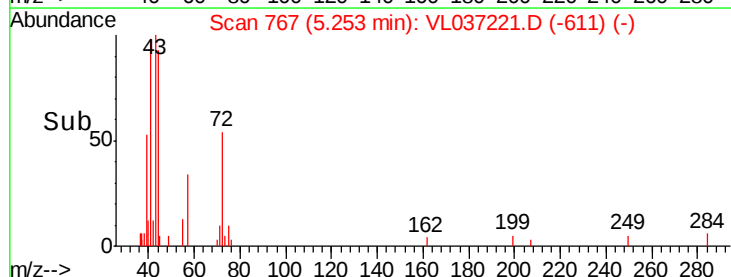
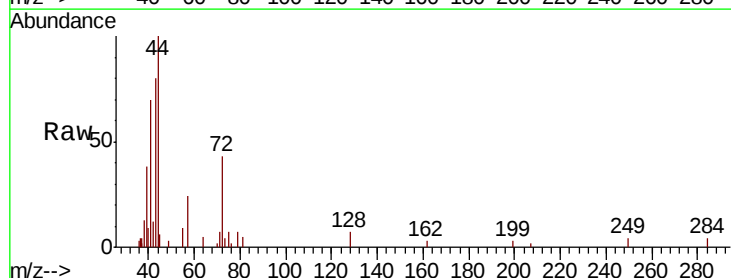
Acq: 22 Jun 2021 17:48

Tgt Ion: 43 Resp: 4355

Ion Ratio Lower Upper

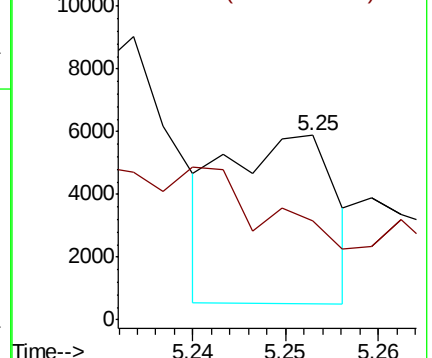
43 100

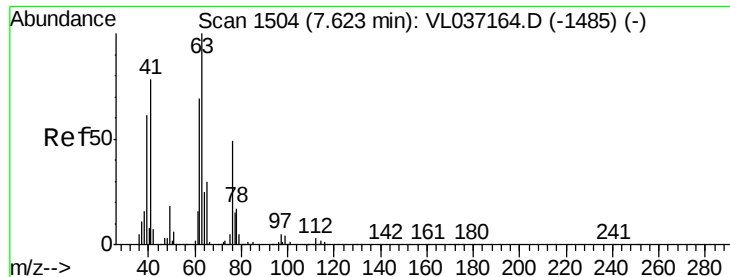
72 0.0 18.9 28.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 8.035 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. -0.43 min

Lab File: VL037221.D

Acq: 22 Jun 2021 17:48

Instrument :

MSVOA\_L

ClientSampleId :

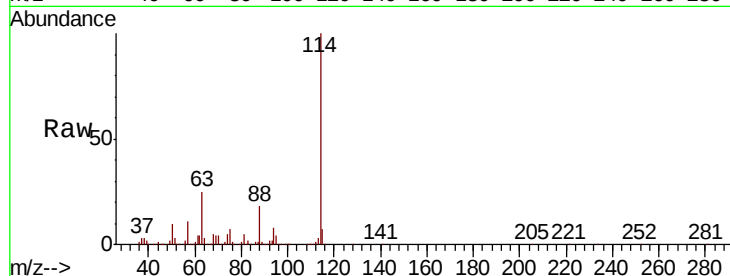
Tot Ion: 63 Resp: 1089268

Ion Ratio Lower Upper

63 100

41 0.1 62.0 93.0#

62 17.5 54.9 82.3#

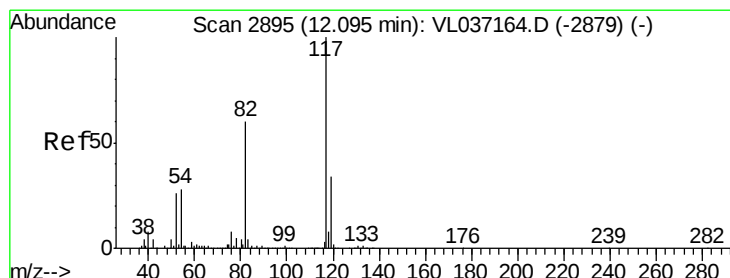
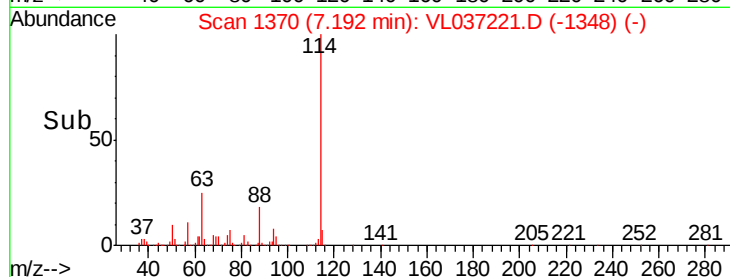
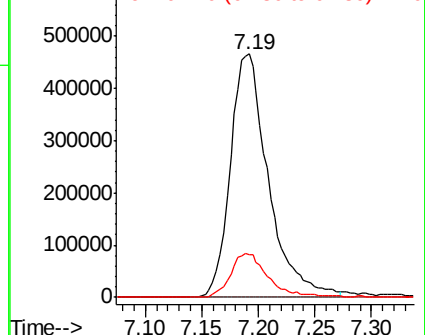


Abundance

Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. 0.01 min

Lab File: VL037221.D

Acq: 22 Jun 2021 17:48

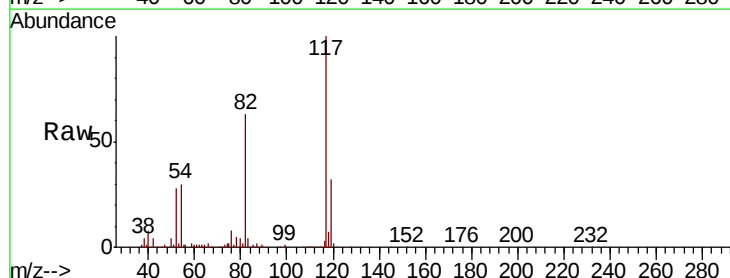
Tgt Ion: 117 Resp: 3859091

Ion Ratio Lower Upper

117 100

82 66.1 51.7 77.5

119 34.8 47.6 71.4#

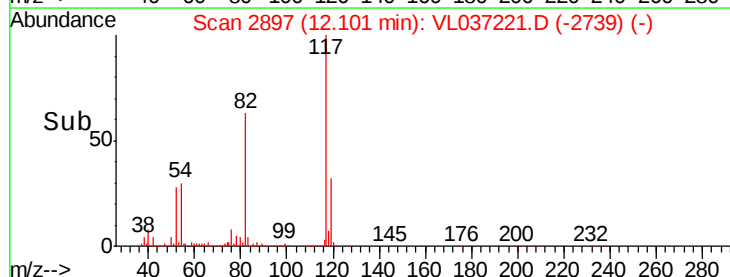
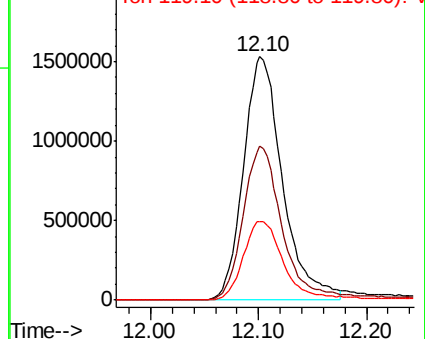


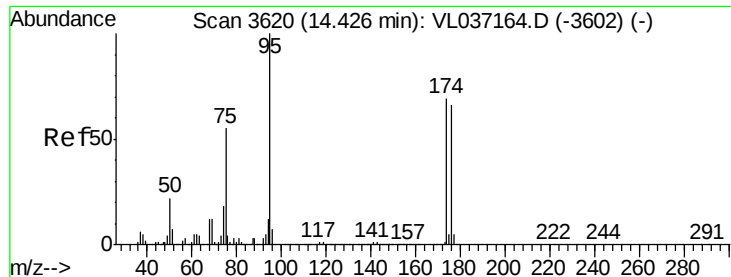
Abundance

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: 10.036 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. 0.01 min

Lab File: VL037221.D

Acq: 22 Jun 2021 17:48

Instrument :

MSVOA\_L

ClientSampleId :

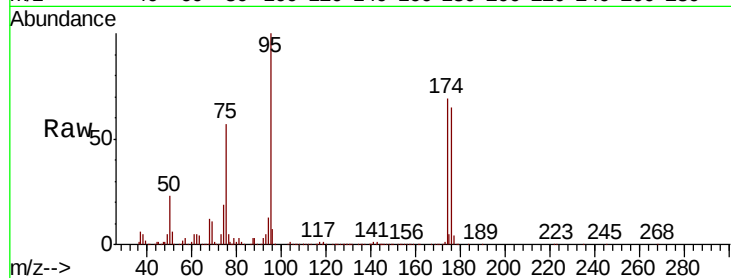
Tot Ion: 95 Resp: 2934752

Ion Ratio Lower Upper

95 100

174 73.1 57.0 85.4

175 5.2 4.4 6.6



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

