

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100121\  
 Data File : VL037744.D  
 Acq On : 1 Oct 2021 16:46  
 Operator : SY/AP  
 Sample : M4012-02 10X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P22

Manual Integrations  
 APPROVED

MMDadoda  
 10/4/2021 5:50:01 PM

Quant Time: Oct 02 19:42:55 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Sep 1  
 QLast Update : Thu Sep 16 13:42:46 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1526679  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 4376295  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 3727135  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2682640  | 9.96     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.60% |

| Target Compounds       | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|------------------------|-------|------|----------|---------|--------|--------|
| 9) Propene             | 3.02  | 41   | 50166    | 0.494   | ppbv # | 69     |
| 13) Ethanol            | 3.60  | 45   | 8718039  | 877.443 | ppbv   | 91     |
| 15) Acetone            | 3.83  | 43   | 3394986  | 21.403  | ppbv   | 94     |
| 19) Isopropyl Alcohol  | 3.96  | 45   | 1914926  | 22.188  | ppbv # | 96     |
| 20) Methylene Chloride | 4.34  | 84   | 115091   | 1.520   | ppbv   | 98     |
| 29) Chloroform         | 5.74  | 83   | 28845m   | 0.108   | ppbv   |        |
| 53) Toluene            | 9.78  | 91   | 113369m  | 0.279   | ppbv   |        |
| 59) m/p-Xylene         | 12.95 | 91   | 69332m   | 0.161   | ppbv   |        |

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

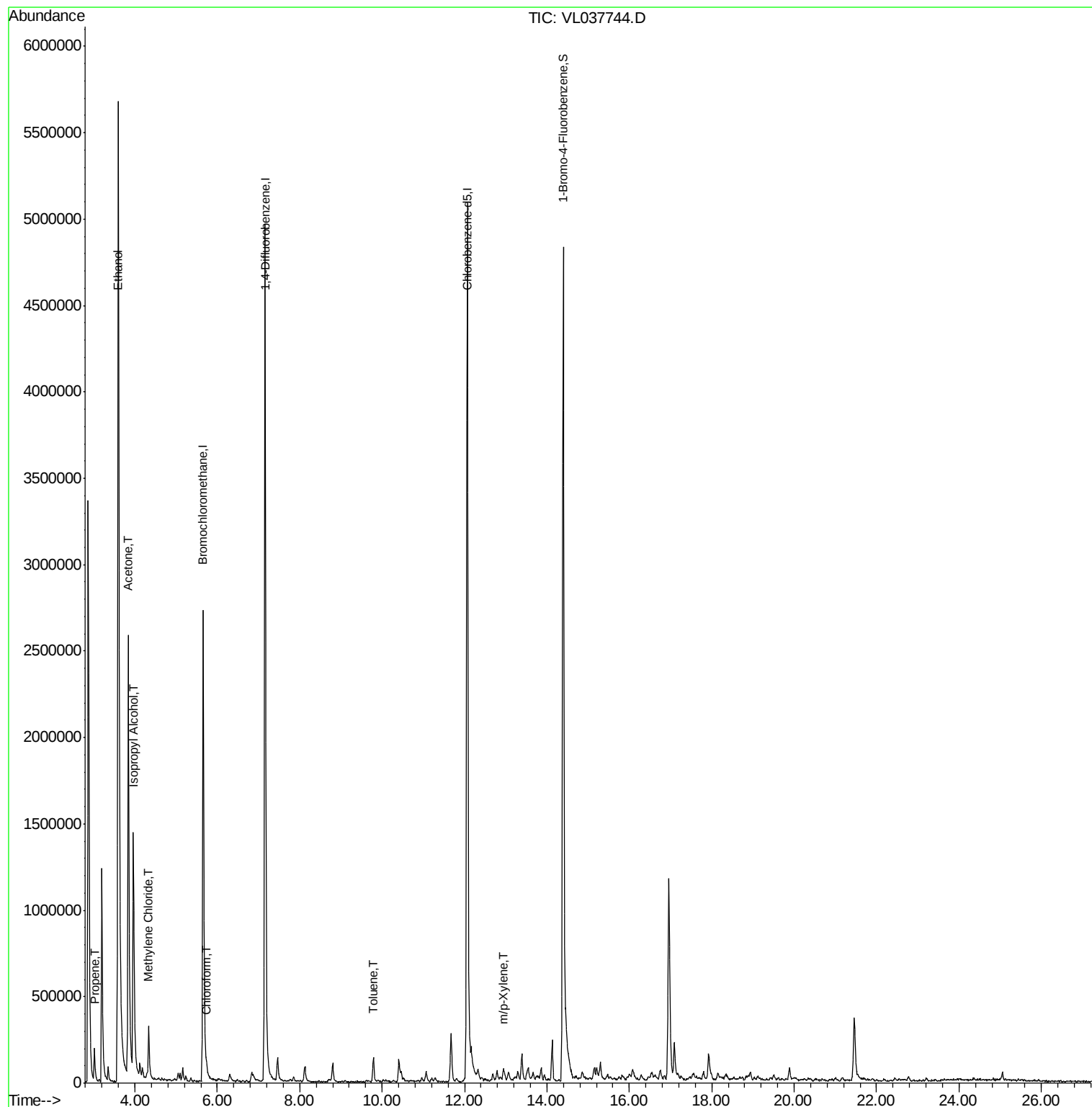
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL100121\  
Data File : VL037744.D  
Acq On : 1 Oct 2021 16:46  
Operator : SY/AP  
Sample : M4012-02 10X  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

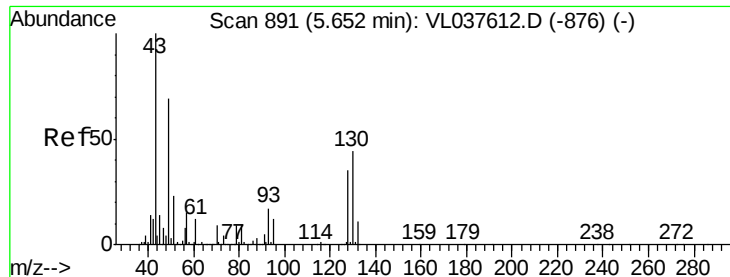
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P22

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10/4/2021 5:50:01 PM

Quant Time: Oct 02 19:42:55 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Sep  
QLast Update : Thu Sep 16 13:42:46 2021  
Response via : Initial Calibration





#1

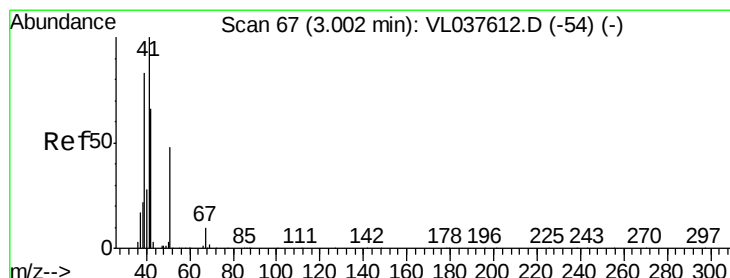
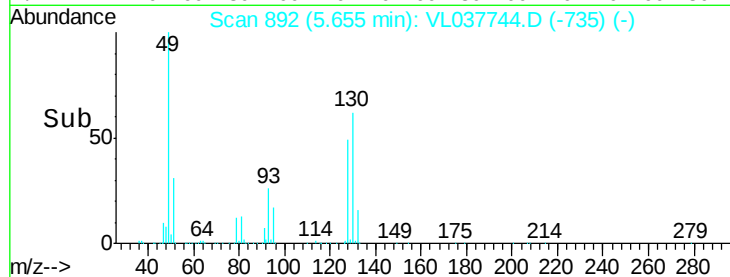
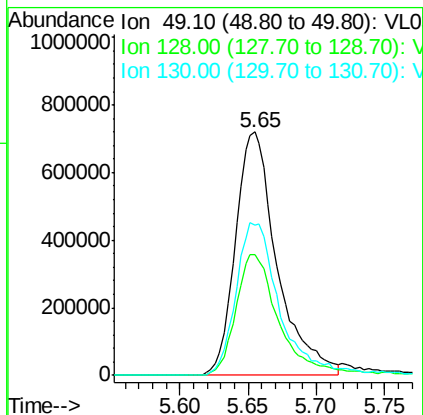
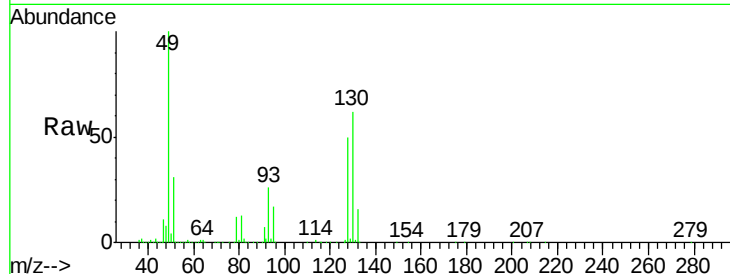
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.65 min Scan# 892  
Delta R.T. 0.00 min  
Lab File: VL037744.D  
Acq: 1 Oct 2021 16:46

Instrument :  
MSVOA\_L  
ClientSampled :  
C0P22

Tot Ion: 49 Resp: 1526679  
Ion Ratio Lower Upper  
49 100  
128 52.7 27.9 83.6  
130 67.9 33.9 101.7

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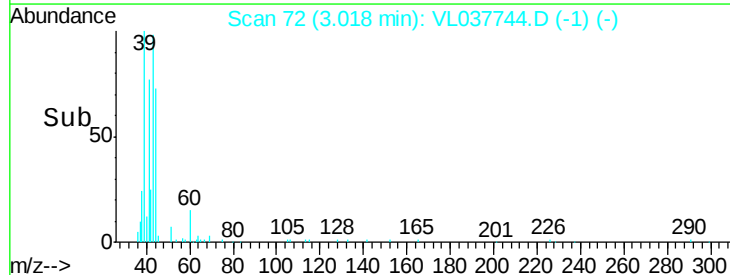
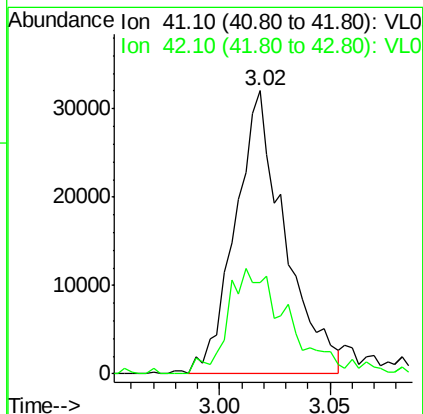
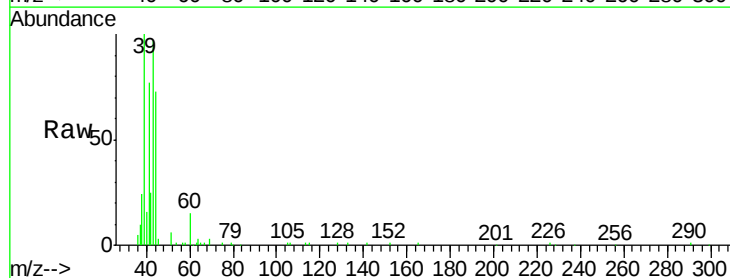
MMDadoda  
10/4/2021 5:50:01 PM

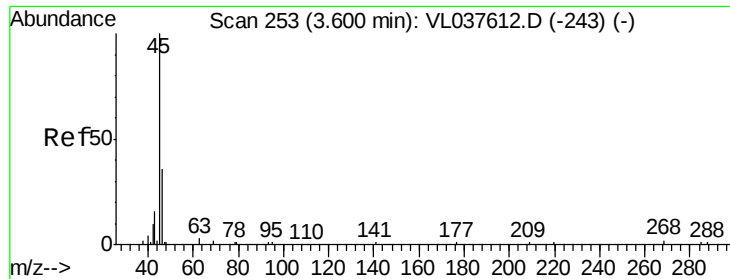


#9

Propene  
Concen: 0.494 ppbv  
RT: 3.02 min Scan# 72  
Delta R.T. 0.02 min  
Lab File: VL037744.D  
Acq: 1 Oct 2021 16:46

Tgt Ion: 41 Resp: 50166  
Ion Ratio Lower Upper  
41 100  
42 46.1 57.2 85.8#





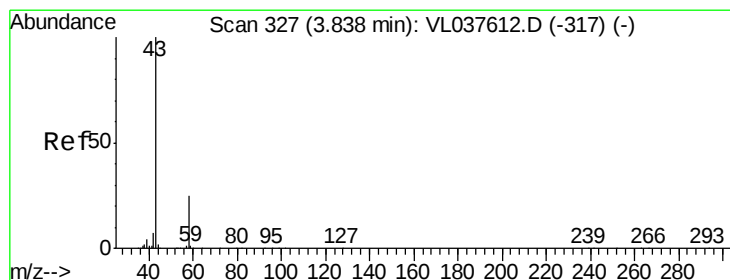
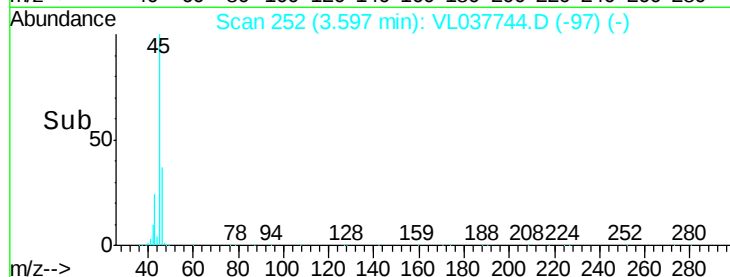
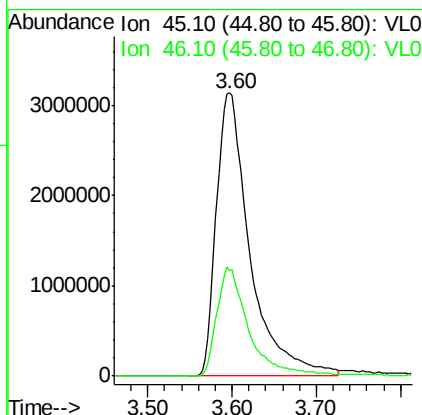
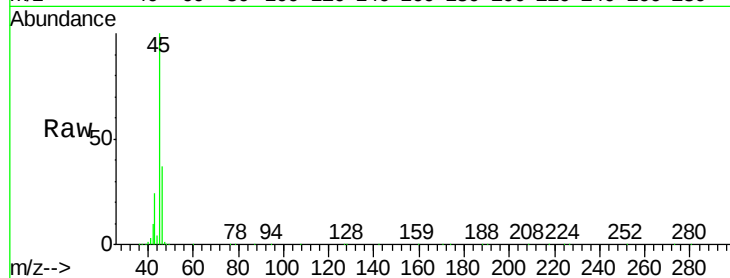
#13  
Ethanol  
Concen: 877.443 ppbv  
RT: 3.60 min Scan# 252  
Delta R.T. -0.00 min  
Lab File: VL037744.D  
Acq: 1 Oct 2021 16:46

Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P22

Tot Ion: 45 Resp: 8718039  
Ion Ratio Lower Upper  
45 100  
46 37.2 17.2 68.8

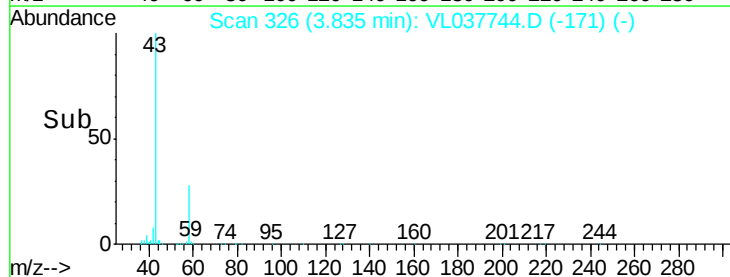
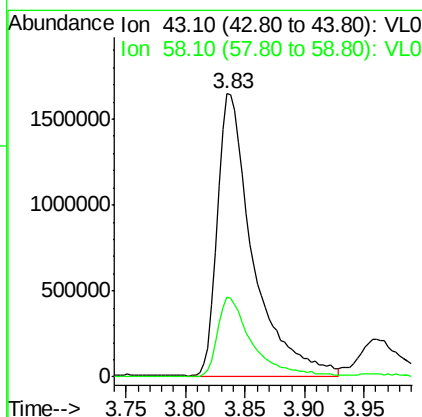
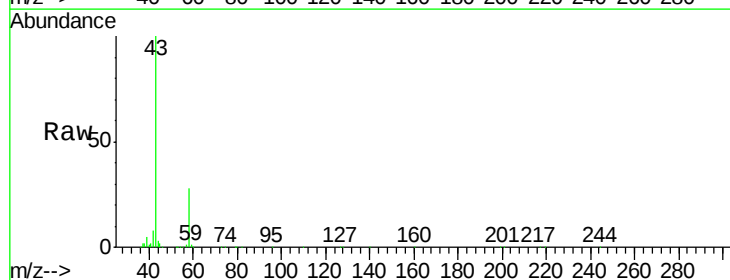
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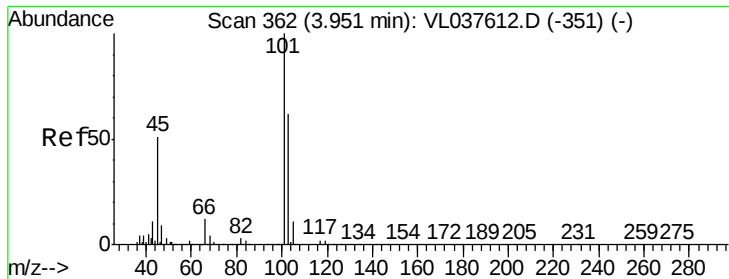
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#15  
Acetone  
Concen: 21.403 ppbv  
RT: 3.83 min Scan# 326  
Delta R.T. -0.00 min  
Lab File: VL037744.D  
Acq: 1 Oct 2021 16:46

Tgt Ion: 43 Resp: 3394986  
Ion Ratio Lower Upper  
43 100  
58 27.6 24.9 37.3





#19

Isopropyl Alcohol

Concen: 22.188 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL037744.D

Acq: 1 Oct 2021 16:46

Instrument :

MSVOA\_L

ClientSampled :

C0P22

Tot Ion: 45 Resp: 1914926

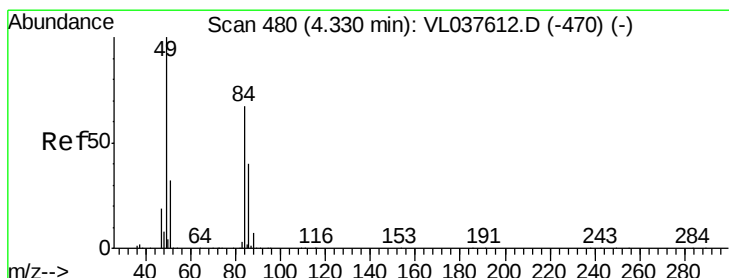
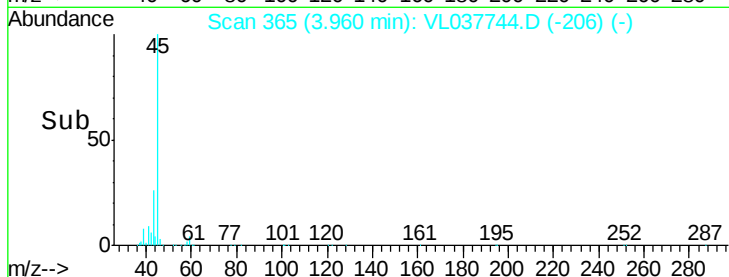
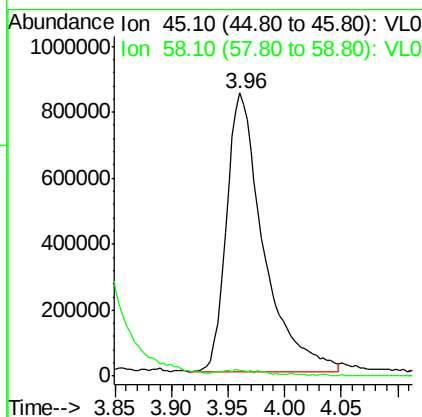
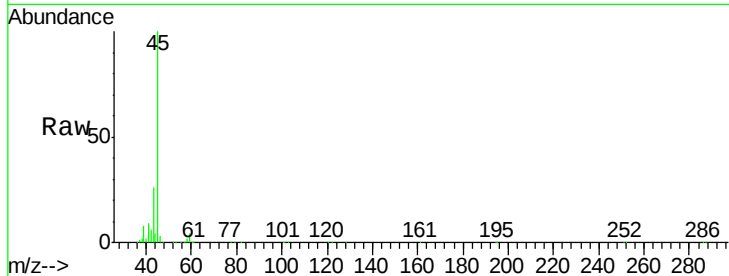
Ion Ratio Lower Upper

45 100

58 2.3 2.9 4.3#

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#20

Methylene Chloride

Concen: 1.520 ppbv

RT: 4.34 min Scan# 482

Delta R.T. 0.01 min

Lab File: VL037744.D

Acq: 1 Oct 2021 16:46

Tgt Ion: 84 Resp: 115091

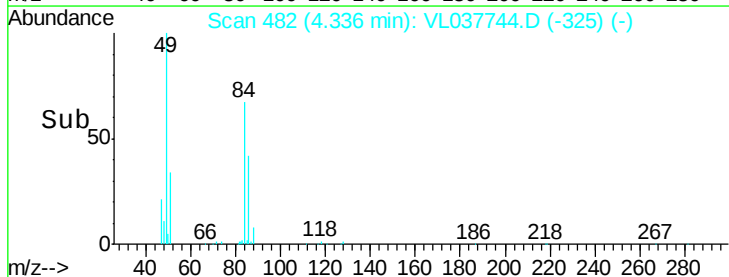
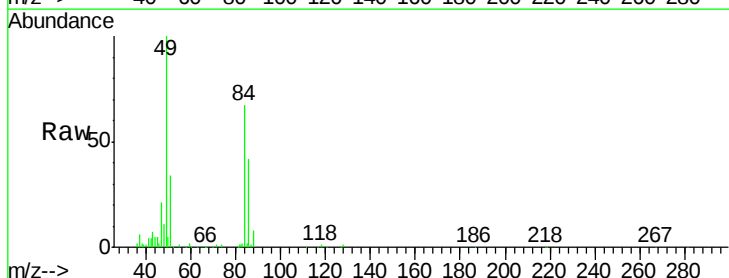
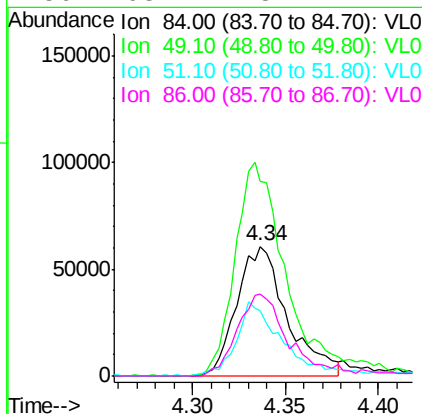
Ion Ratio Lower Upper

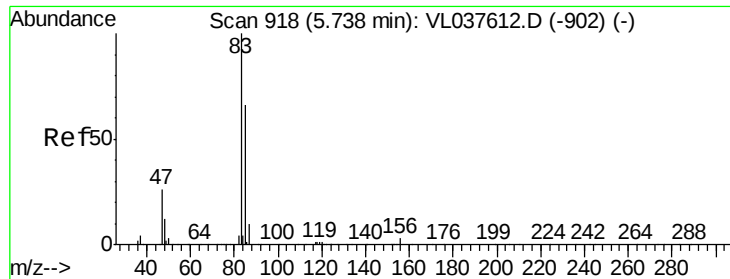
84 100

49 149.4 120.0 180.0

51 50.4 38.0 57.0

86 63.4 48.2 72.2





#29

Chloroform

Concen: 0.108 ppbv m

RT: 5.74 min Scan# 918

Delta R.T. -0.00 min

Lab File: VL037744.D

Acq: 1 Oct 2021 16:46

Instrument :

MSVOA\_L

ClientSampleId :

C0P22

Tot Ion: 83 Resp: 28845

Ion Ratio Lower Upper

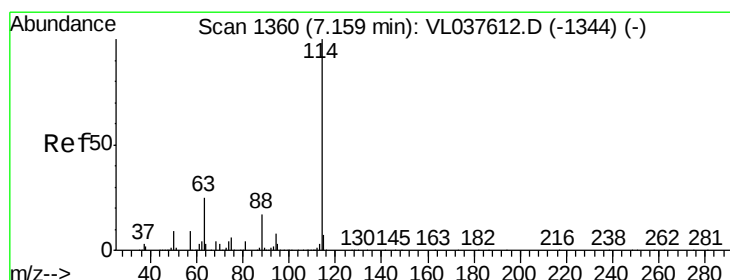
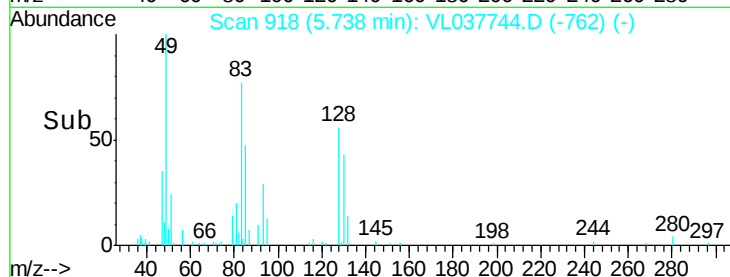
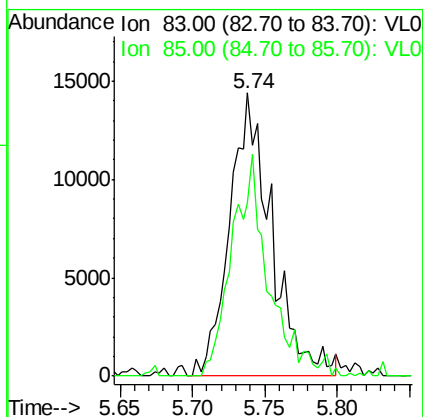
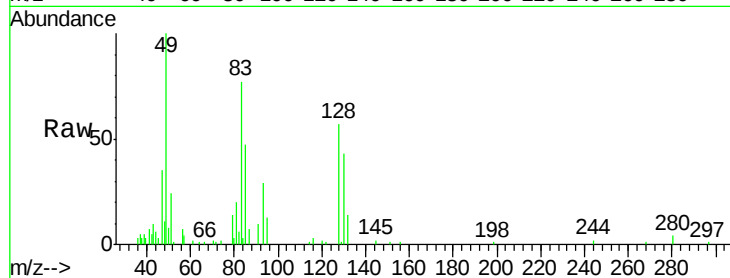
83 100

85 61.4 52.6 79.0

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10/4/2021 5:50:01 PM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VL037744.D

Acq: 1 Oct 2021 16:46

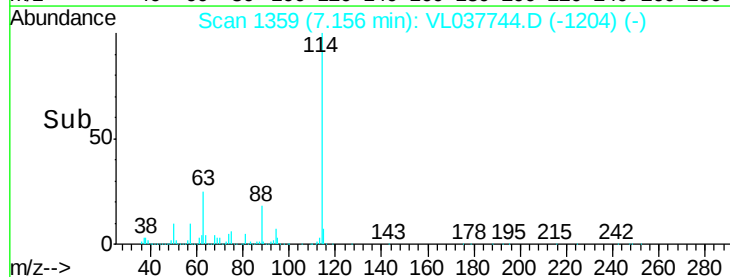
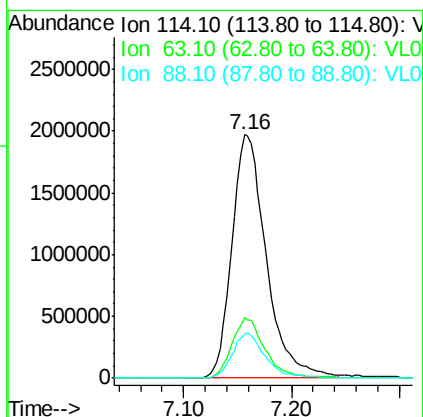
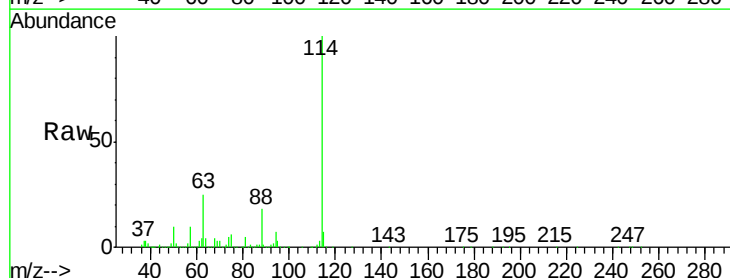
Tgt Ion: 114 Resp: 4376295

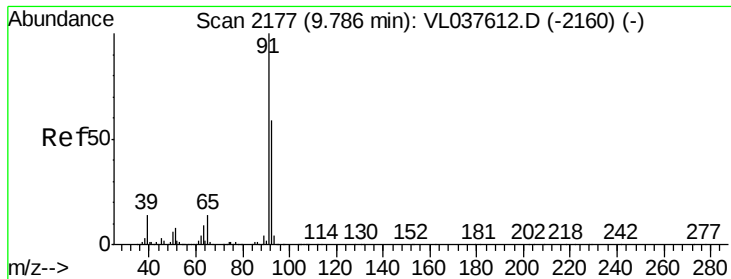
Ion Ratio Lower Upper

114 100

63 24.1 19.6 29.4

88 18.1 14.2 21.4





#53

Toluene

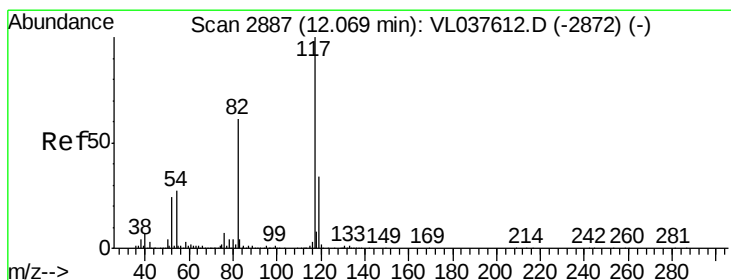
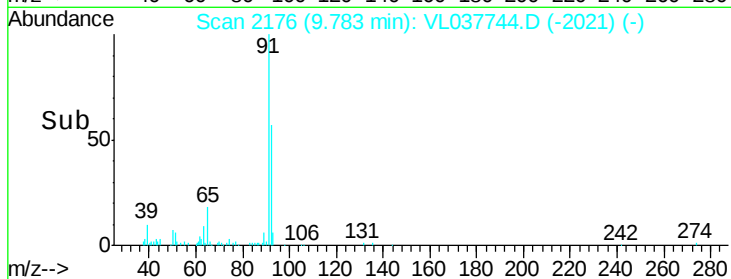
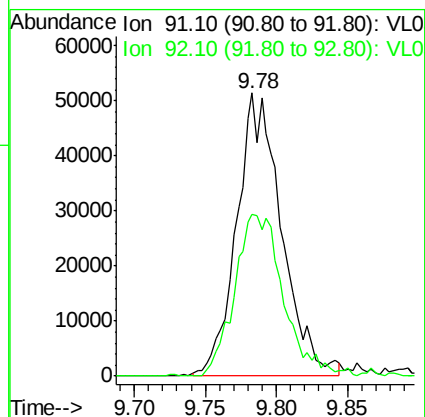
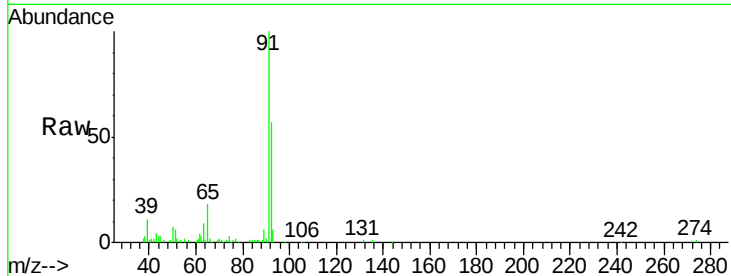
Concen: 0.279 ppbv m  
 RT: 9.78 min Scan# 2176  
 Delta R.T. -0.00 min  
 Lab File: VL037744.D  
 Acq: 1 Oct 2021 16:46

Instrument :  
 MSVOA\_L  
 ClientSampled :  
 C0P22

Tot Ion: 91 Resp: 113369  
 Ion Ratio Lower Upper  
 91 100  
 92 62.6 48.9 73.3

Manual Integrations  
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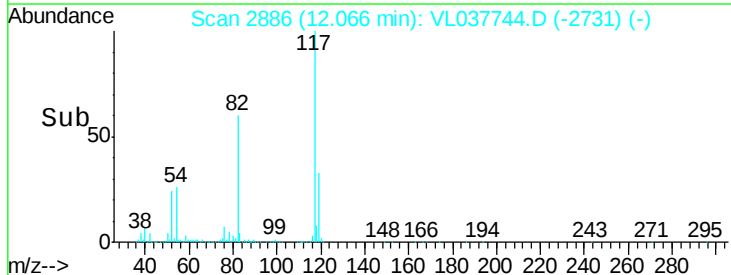
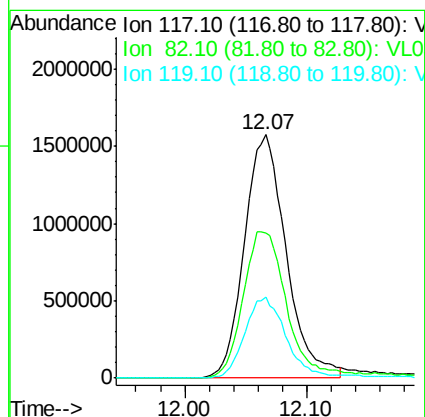
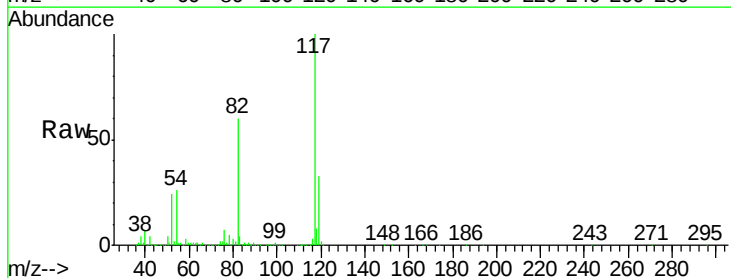


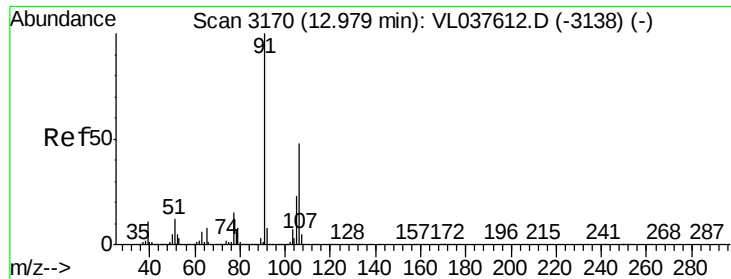
#55

Chlorobenzene-d5

Concen: 10.000 ppbv  
 RT: 12.07 min Scan# 2886  
 Delta R.T. -0.00 min  
 Lab File: VL037744.D  
 Acq: 1 Oct 2021 16:46

Tgt Ion: 117 Resp: 3727135  
 Ion Ratio Lower Upper  
 117 100  
 82 66.2 50.6 75.8  
 119 34.0 26.2 39.2





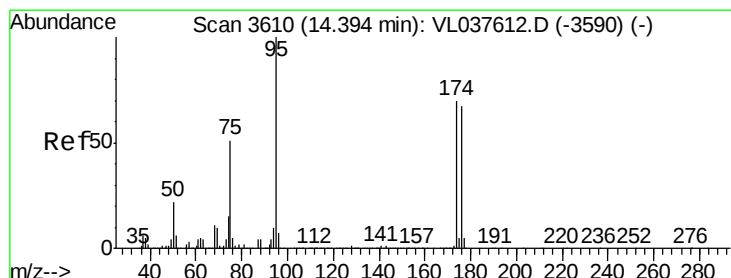
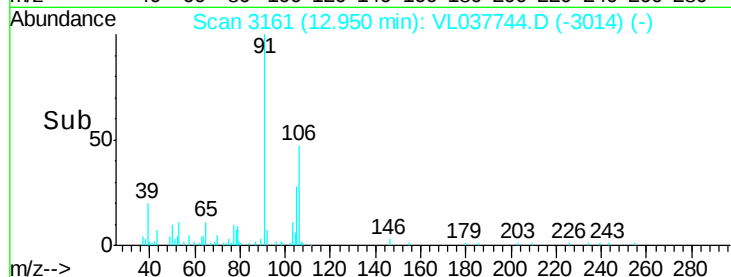
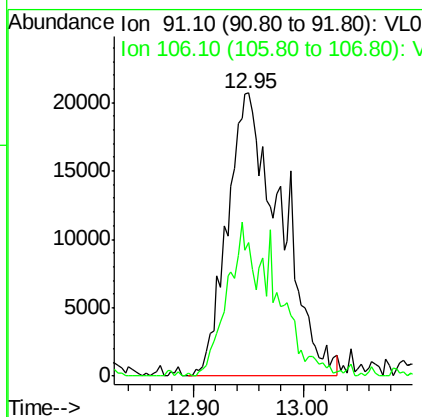
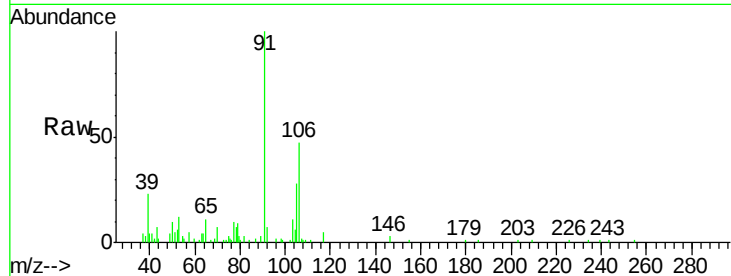
#59  
m/p-Xylene  
Concen: 0.161 ppbv m  
RT: 12.95 min Scan# 3161  
Delta R.T. -0.03 min  
Lab File: VL037744.D  
Acq: 1 Oct 2021 16:46

Instrument :  
MSVOA\_L  
ClientSampled :  
C0P22

Tot Ion: 91 Resp: 69332  
Ion Ratio Lower Upper  
91 100  
106 0.0 36.6 55.0#

Manual Integrations  
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#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.959 ppbv  
RT: 14.39 min Scan# 3610  
Delta R.T. -0.00 min  
Lab File: VL037744.D  
Acq: 1 Oct 2021 16:46

Tgt Ion: 95 Resp: 2682640  
Ion Ratio Lower Upper  
95 100  
174 74.3 56.3 84.5  
175 5.7 4.4 6.6

