

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100121\  
 Data File : VL037743.D  
 Acq On : 1 Oct 2021 16:02  
 Operator : SY/AP  
 Sample : M4012-01DL 10X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P23DL

Manual Integrations  
 APPROVED

MMDadoda  
 10/4/2021 5:49:57 PM

Quant Time: Oct 02 19:41:07 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Sep 16 2021  
 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   | 1449670  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 4261801  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 3541374  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2504190  | 9.78     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.80% |

| Target Compounds       | R.T. | QIon | Response | Conc    | Units | Ovalue |
|------------------------|------|------|----------|---------|-------|--------|
| 13) Ethanol            | 3.59 | 45   | 2053005  | 217.605 | ppbv  | 94     |
| 15) Acetone            | 3.84 | 43   | 817269   | 5.426   | ppbv  | 96     |
| 19) Isopropyl Alcohol  | 3.96 | 45   | 392959   | 4.795   | ppbv  | 99     |
| 20) Methylene Chloride | 4.34 | 84   | 635929   | 8.844   | ppbv  | 98     |
| 26) Hexane             | 5.67 | 57   | 227897m  | 1.315   | ppbv  |        |

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

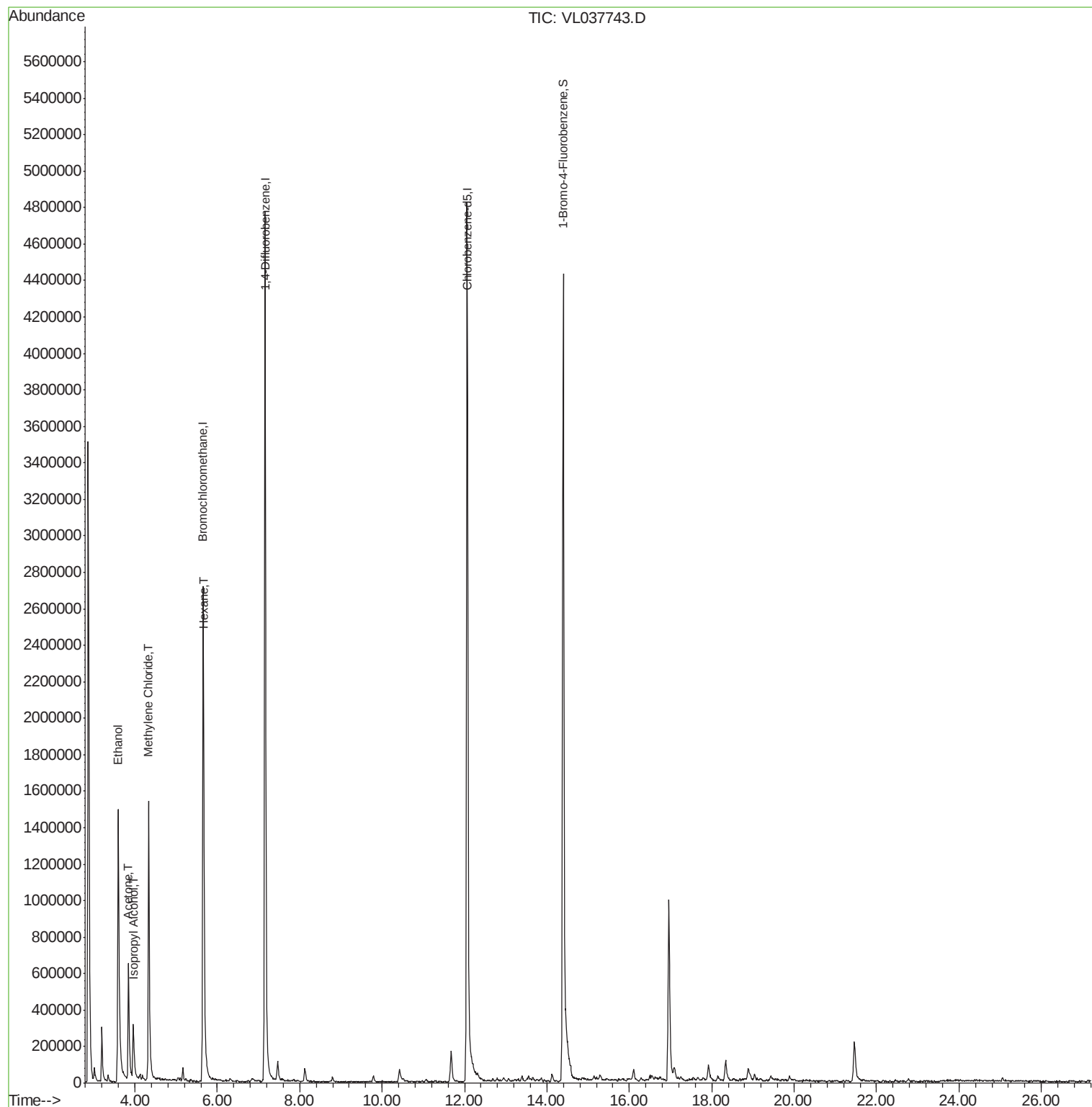
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL100121\  
Data File : VL037743.D  
Acq On : 1 Oct 2021 16:02  
Operator : SY/AP  
Sample : M4012-01DL 10X  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

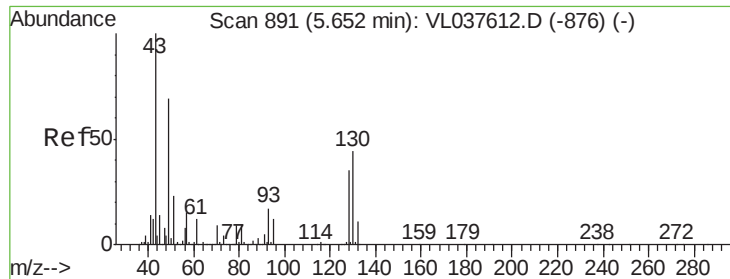
Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P23DL

Manual Integrations  
APPROVED

MMDadoda  
10/4/2021 5:49:57 PM

Quant Time: Oct 02 19:41:07 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: VL037743.D

Acq: 1 Oct 2021 16:02

Instrument :

MSVOA\_L

ClientSampled :

C0P23DL

Tot Ion: 49 Resp: 1449670

Ion Ratio Lower Upper

49 100

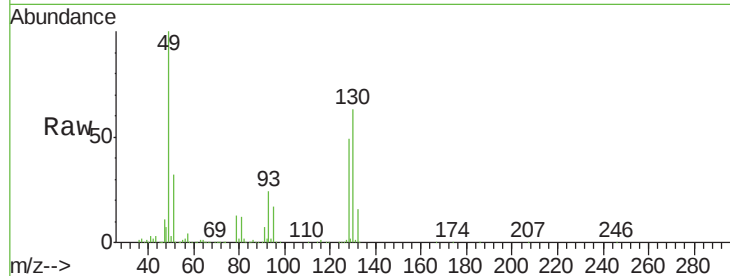
128 54.1 27.9 83.6

130 70.0 33.9 101.7

Manual Integrations  
APPROVED

MMDadoda

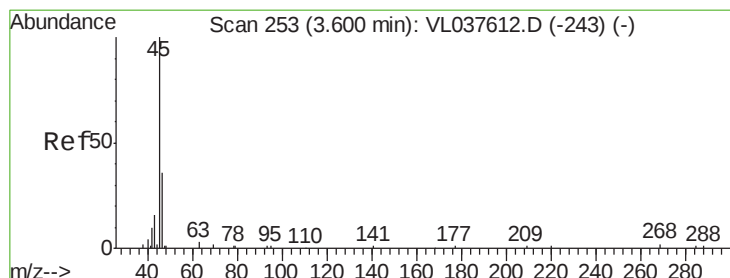
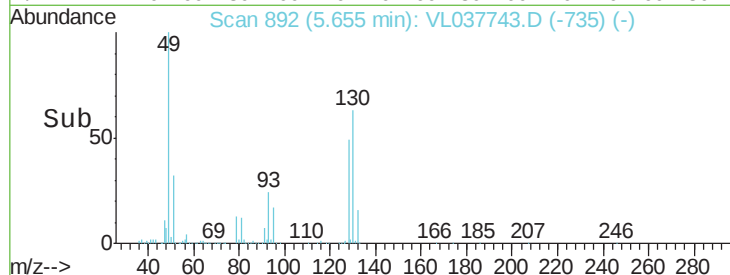
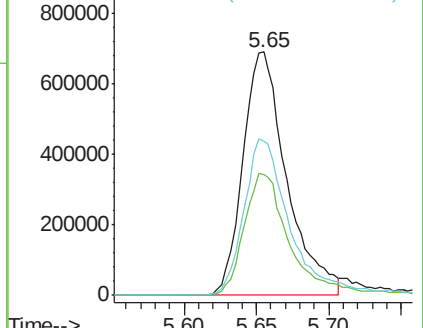
10/4/2021 5:49:57 PM



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



#13

Ethanol

Concen: 217.605 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.01 min

Lab File: VL037743.D

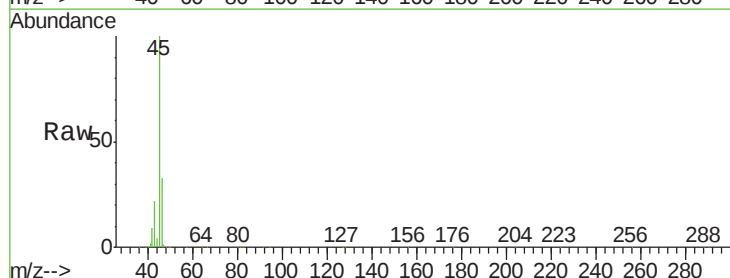
Acq: 1 Oct 2021 16:02

Tgt Ion: 45 Resp: 2053005

Ion Ratio Lower Upper

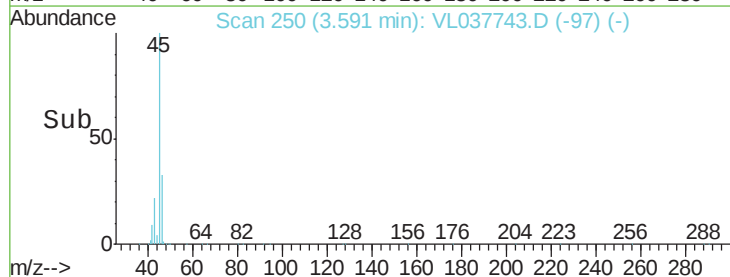
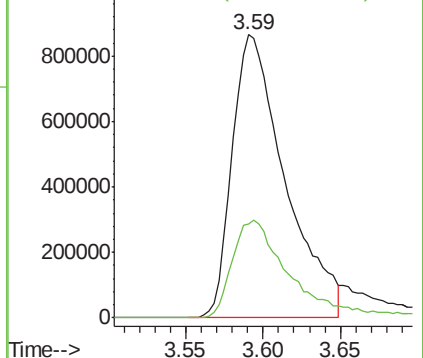
45 100

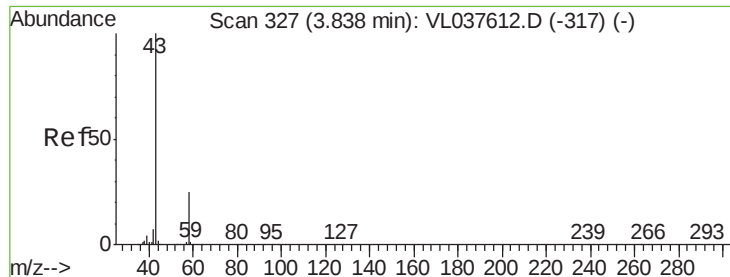
46 39.0 17.2 68.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





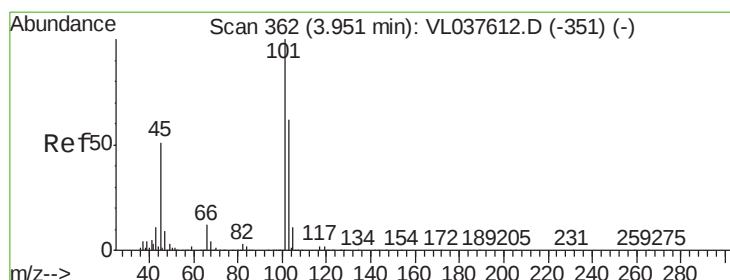
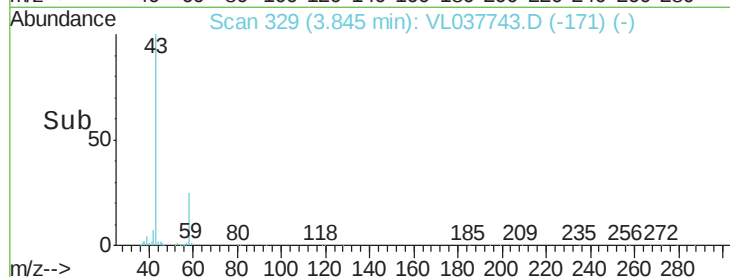
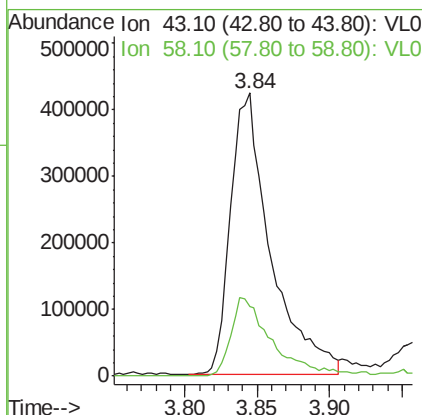
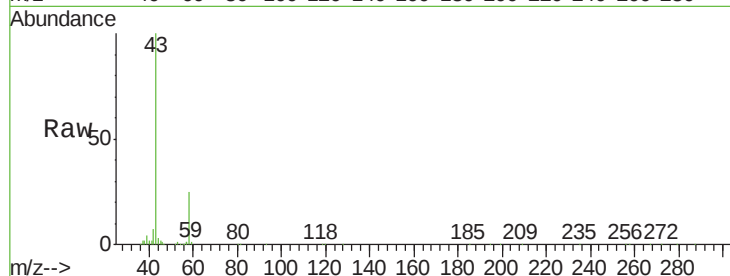
#15  
Acetone  
Concen: 5.426 ppbv  
RT: 3.84 min Scan# 329  
Delta R.T. 0.01 min  
Lab File: VL037743.D  
Acq: 1 Oct 2021 16:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P23DL

Tot Ion: 43 Resp: 817269  
Ion Ratio Lower Upper  
43 100  
58 29.0 24.9 37.3

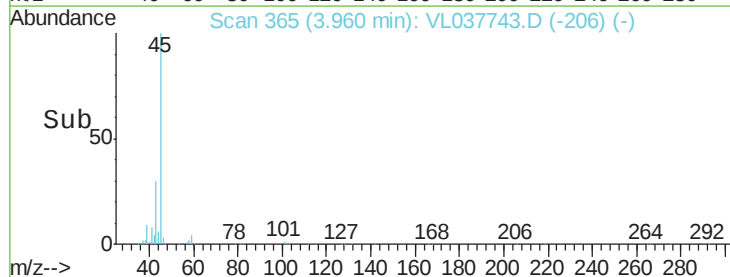
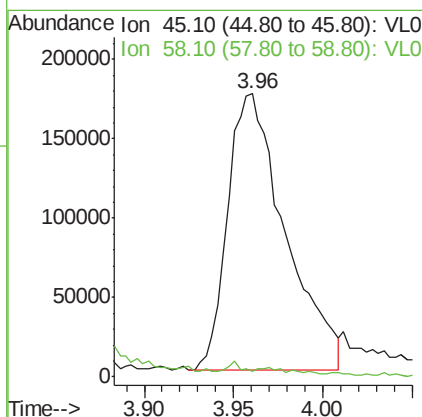
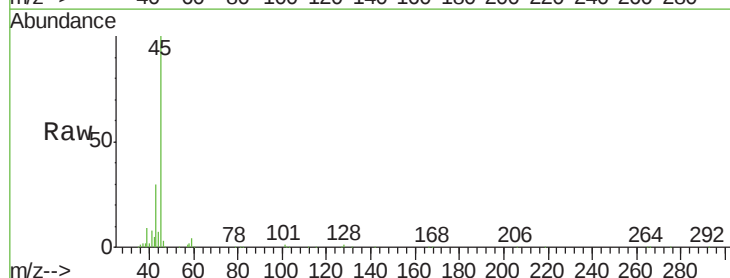
Manual Integrations  
APPROVED

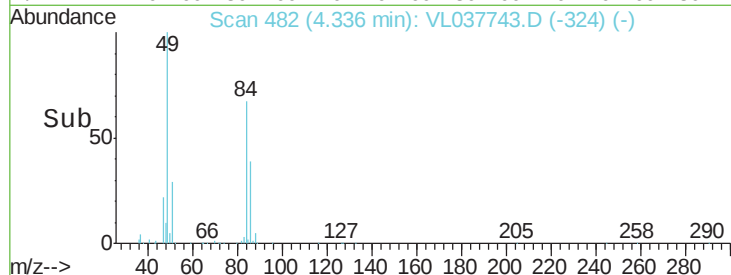
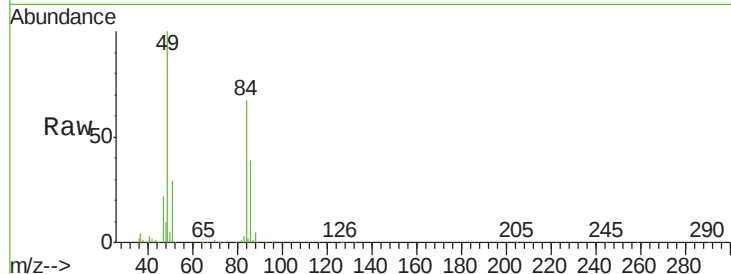
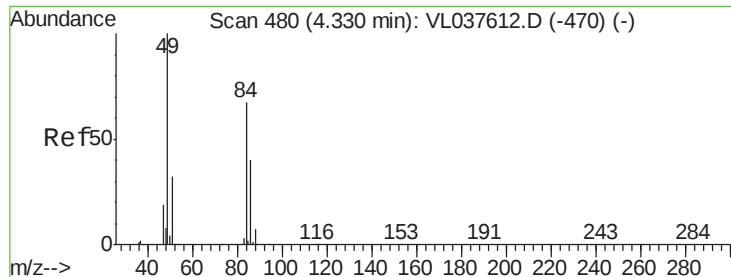
MMDadoda  
10/4/2021 5:49:57 PM



#19  
Isopropyl Alcohol  
Concen: 4.795 ppbv  
RT: 3.96 min Scan# 365  
Delta R.T. 0.01 min  
Lab File: VL037743.D  
Acq: 1 Oct 2021 16:02

Tgt Ion: 45 Resp: 392959  
Ion Ratio Lower Upper  
45 100  
58 3.4 2.9 4.3





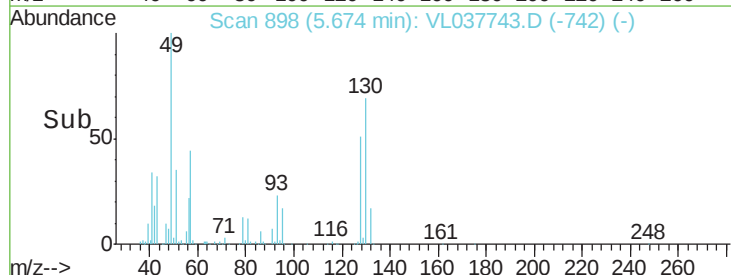
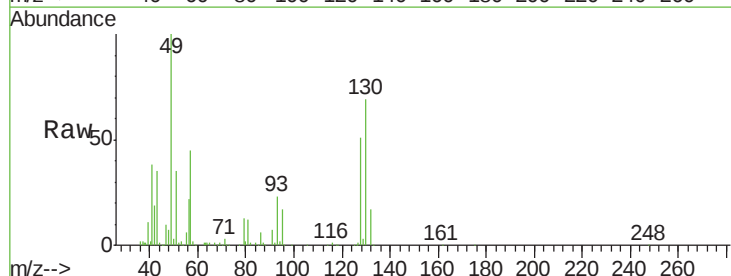
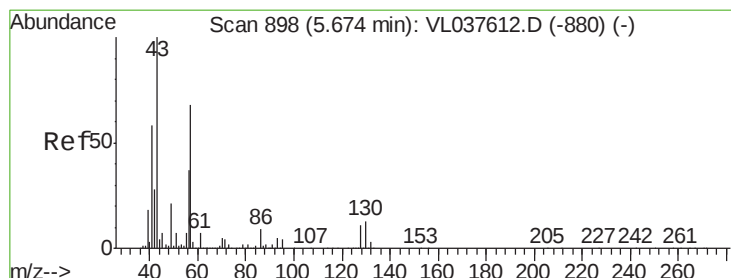
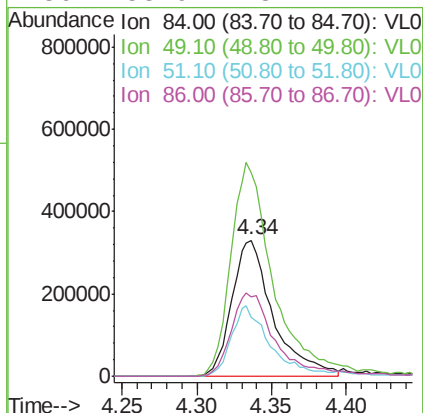
#20  
Methylene Chloride  
Concen: 8.844 ppbv  
RT: 4.34 min Scan# 482  
Delta R.T. 0.01 min  
Lab File: VL037743.D  
Acq: 1 Oct 2021 16:02

| Tot Ion   | 84    | Resp  | 635929 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 84        | 100   |       |        |
| 49        | 150.1 | 120.0 | 180.0  |
| 51        | 43.4  | 38.0  | 57.0   |
| 86        | 58.9  | 48.2  | 72.2   |

Instrument :  
MSVOA\_L  
ClientSampleId :  
C0P23DL

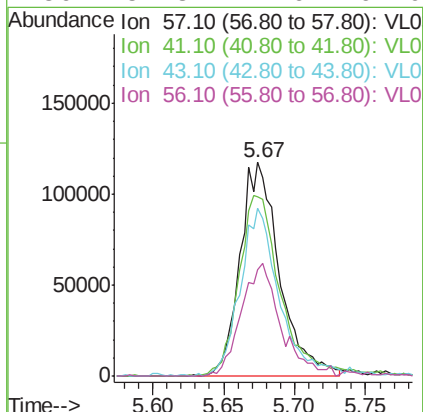
Manual Integrations  
APPROVED

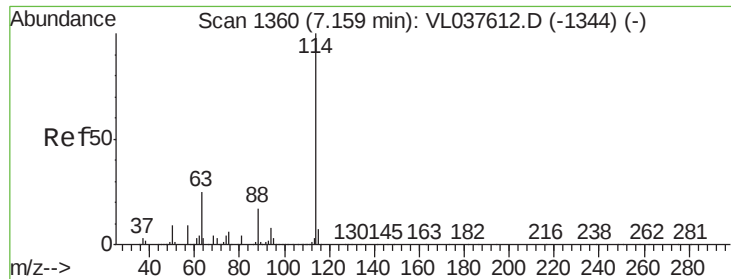
MMDadoda  
10/4/2021 5:49:57 PM



#26  
Hexane  
Concen: 1.315 ppbv m  
RT: 5.67 min Scan# 898  
Delta R.T. 0.00 min  
Lab File: VL037743.D  
Acq: 1 Oct 2021 16:02

| Tgt Ion   | 57    | Resp  | 227897 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 57        | 100   |       |        |
| 41        | 90.5  | 70.9  | 106.3  |
| 43        | 80.2  | 170.4 | 255.6# |
| 56        | 54.3  | 42.6  | 64.0   |





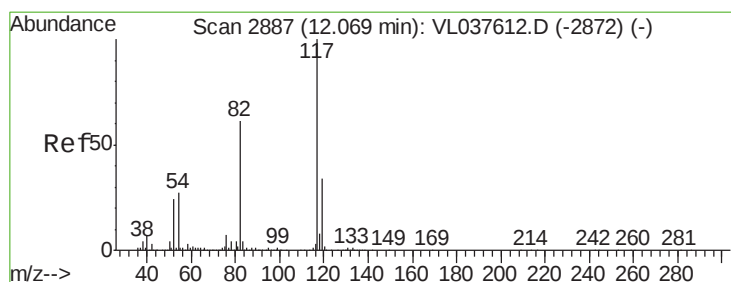
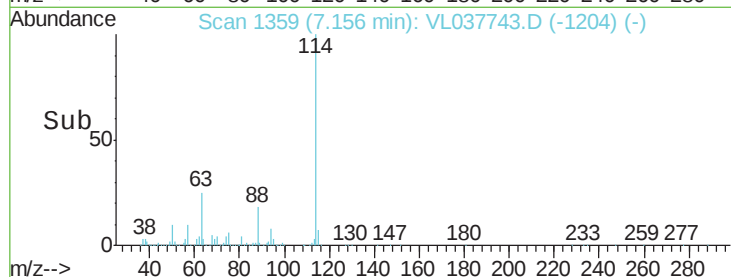
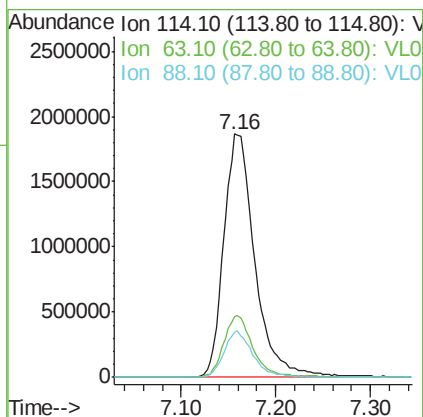
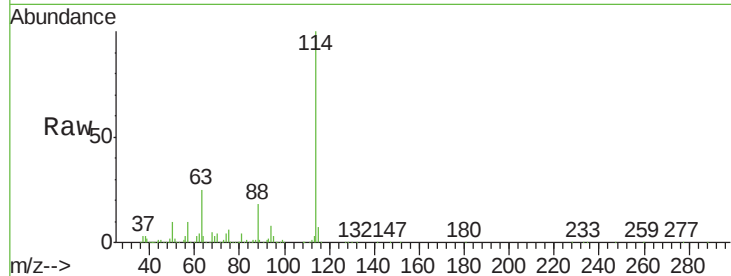
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.16 min Scan# 1359  
 Delta R.T. -0.00 min  
 Lab File: VL037743.D  
 Acq: 1 Oct 2021 16:02

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P23DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.4  | 19.6  | 29.4  |
| 88      | 17.9  | 14.2  | 21.4  |

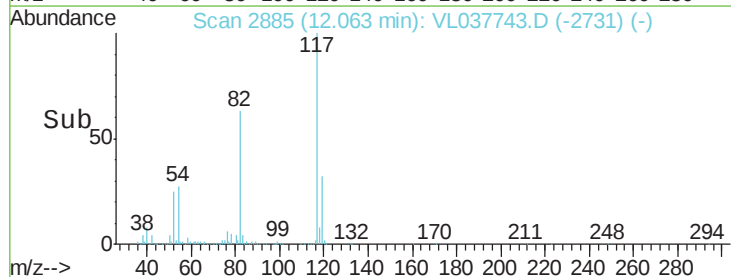
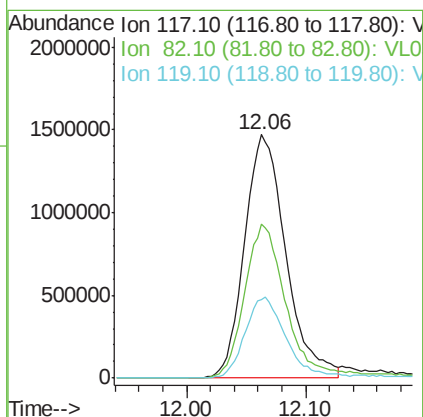
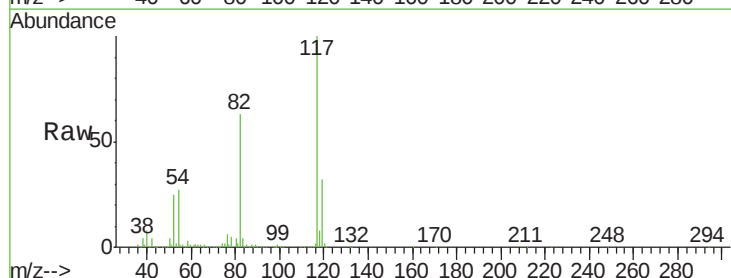
Manual Integrations  
 APPROVED

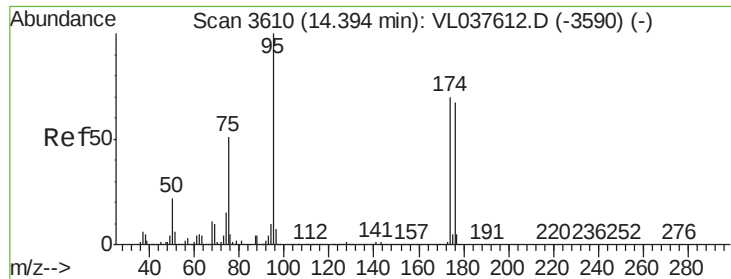
MMDadoda  
 10/4/2021 5:49:57 PM



#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.06 min Scan# 2885  
 Delta R.T. -0.01 min  
 Lab File: VL037743.D  
 Acq: 1 Oct 2021 16:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 67.1  | 50.6  | 75.8  |
| 119     | 34.9  | 26.2  | 39.2  |





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.784 ppbv  
 RT: 14.39 min Scan# 3610  
 Delta R.T. 0.00 min  
 Lab File: VL037743.D  
 Acq: 1 Oct 2021 16:02

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 C0P23DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 74.9  | 56.3  | 84.5  |
| 175     | 5.0   | 4.4   | 6.6   |

Manual Integrations  
 APPROVED

MMDadoda  
 10/4/2021 5:49:57 PM

