

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110921\  
 Data File : VL038000.D  
 Acq On : 10 Nov 2021 4:38  
 Operator : SY/AP  
 Sample : M4597-02DL 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DL

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/15/2021  
 Supervised By :Mahesh Dadoda 11/17/2021

Quant Time: Nov 10 06:48:36 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL110121AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Tue Nov 9 06:48:36 2021  
 QLast Update : Tue Nov 02 05:54:07 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 5.668  | 49    | 1355963  | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene      | 7.176  | 114   | 4004490  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5         | 12.085 | 117   | 3305013  | 10.000   | ppbv   | 0.00     |
|                              |        |       |          |          |        |          |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene  | 14.413 | 95    | 2372883  | 9.877    | ppbv   | 0.00     |
| Spiked Amount                | 10.000 | Range | 65 - 135 | Recovery | =      | 98.800%  |
|                              |        |       |          |          |        |          |
| Target Compounds             |        |       |          |          |        |          |
| 3) Chlorodifluoromethane     | 2.999  | 51    | 217416   | 0.861    | ppbv   | 96       |
| 9) Propene                   | 3.031  | 41    | 20655    | 0.228    | ppbv   | 98       |
| 13) Ethanol                  | 3.626  | 45    | 27202m   | 2.979    | ppbv   |          |
| 15) Acetone                  | 3.870  | 43    | 73119m   | 0.653    | ppbv   |          |
| 19) Isopropyl Alcohol        | 4.002  | 45    | 12328m   | 0.172    | ppbv   |          |
| 20) Methylene Chloride       | 4.346  | 84    | 37919m   | 0.616    | ppbv   |          |
| 22) trans-1,2-Dichloroethene | 4.890  | 96    | 129752   | 1.913    | ppbv # | 84       |
| 26) Hexane                   | 5.697  | 57    | 25051m   | 0.159    | ppbv   |          |
| 34) 2-Butanone               | 5.272  | 43    | 46971m   | 0.317    | ppbv   |          |
| -----                        |        |       |          |          |        |          |

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

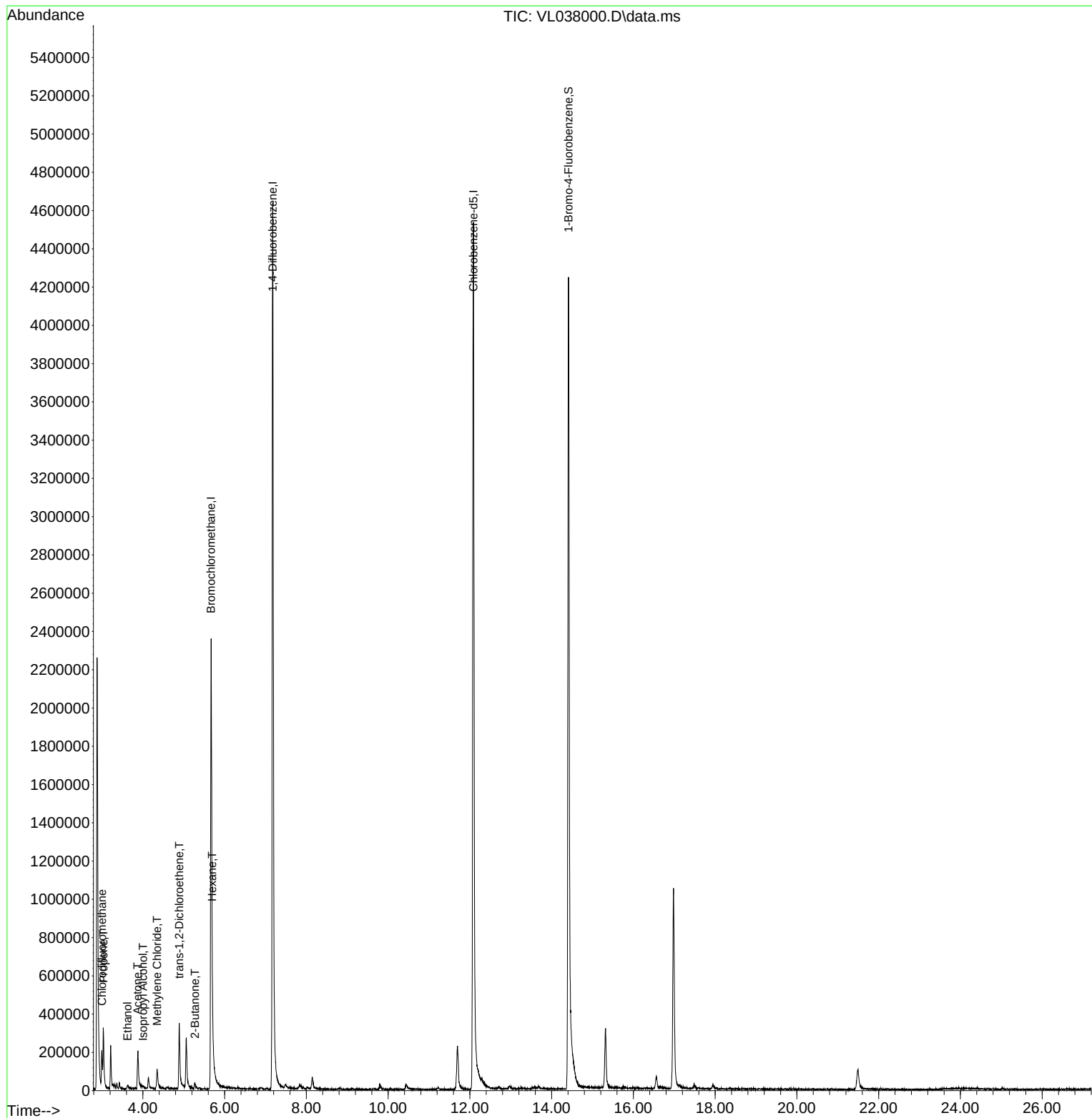
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110921\  
Data File : VL038000.D  
Acq On : 10 Nov 2021 4:38  
Operator : SY/AP  
Sample : M4597-02DL 10X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

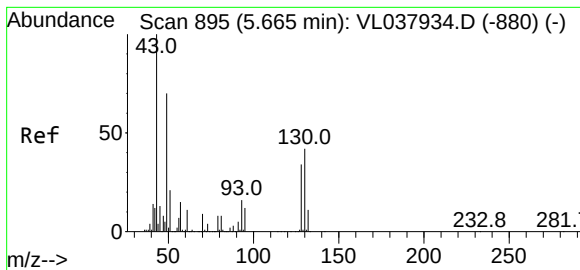
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DL

Quant Time: Nov 10 06:48:36 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL110121AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Nov  
QLast Update : Tue Nov 02 05:54:07 2021  
Response via : Initial Calibration

Manual Integrations  
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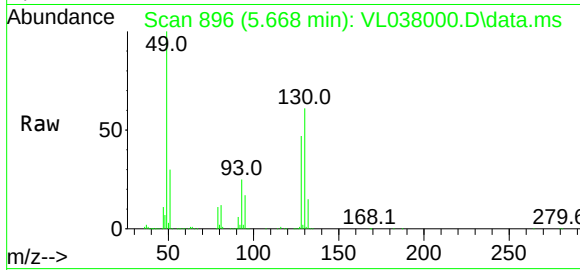
Reviewed By : Semsettin Yesilyurt 11/15/2021  
Supervised By : Mahesh Dadoda 11/17/2021





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.668 min Scan# 895  
Delta R.T. 0.003 min  
Lab File: VL038000.D  
Acq: 10 Nov 2021 4:38

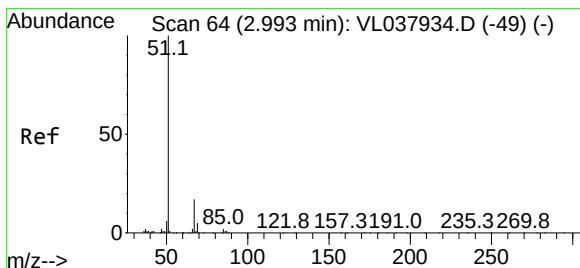
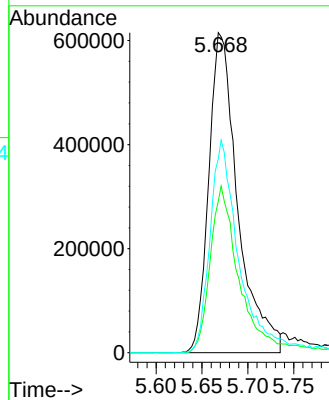
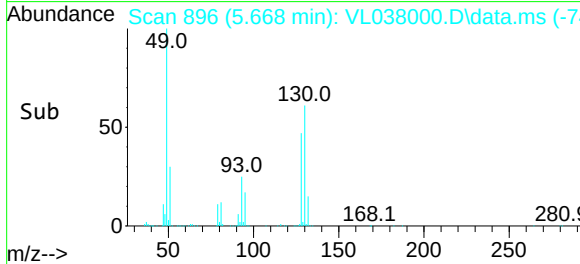
Instrument : MSVOA\_L  
ClientSampleId : IA-2DL



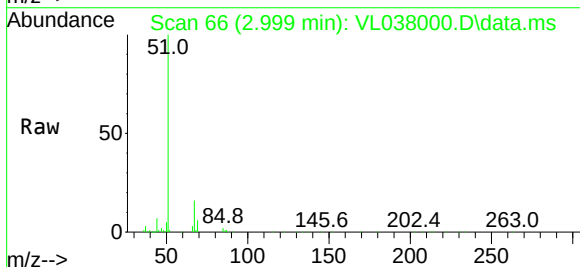
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Ion Ratio Lower Upper  
49 100  
128 53.2 27.0 81.0  
130 69.8 33.4 100.2

Manual Integrations  
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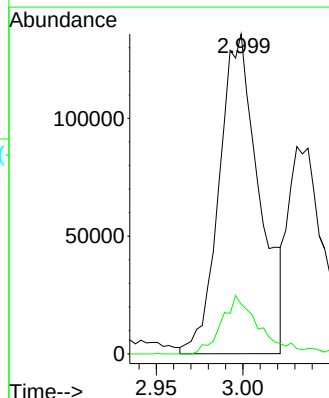
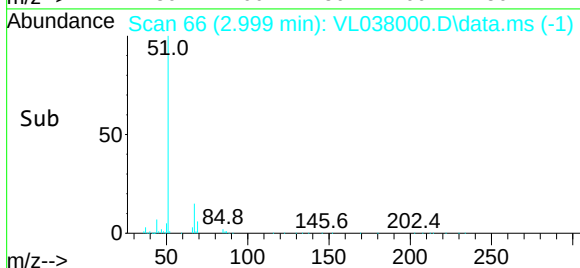
Reviewed By :Semsettin Yesilyurt 11/15/2021  
Supervised By :Mahesh Dadoda 11/17/2021

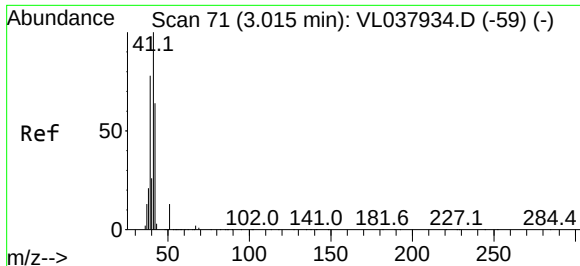


#3  
Chlorodifluoromethane  
Concen: 0.861 ppbv  
RT: 2.999 min Scan# 66  
Delta R.T. 0.006 min  
Lab File: VL038000.D  
Acq: 10 Nov 2021 4:38



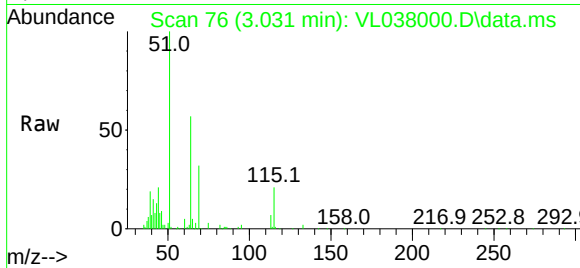
Tgt Ion: 51 Resp: 217416  
Ion Ratio Lower Upper  
51 100  
67 18.5 13.4 20.0





#9  
 Propene  
 Concen: 0.228 ppbv  
 RT: 3.031 min Scan# 71  
 Delta R.T. 0.016 min  
 Lab File: VL038000.D  
 Acq: 10 Nov 2021 4:38

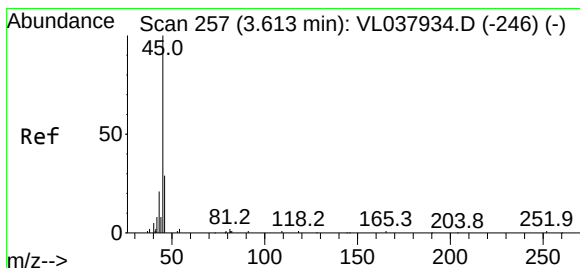
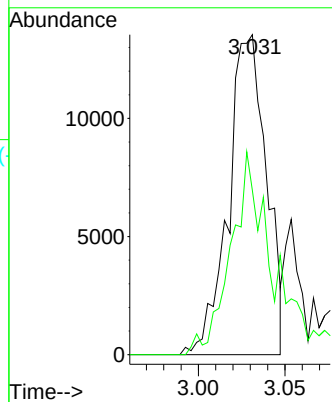
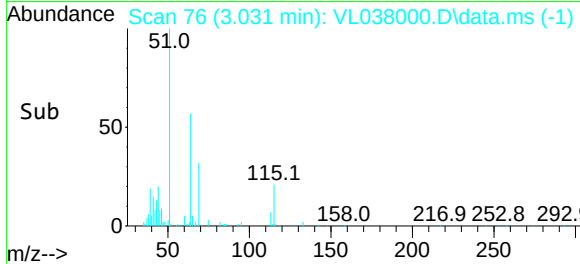
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DL



Tgt Ion: 41 Resp: 2065  
 Ion Ratio Lower Upper  
 41 100  
 42 73.3 57.6 86.4

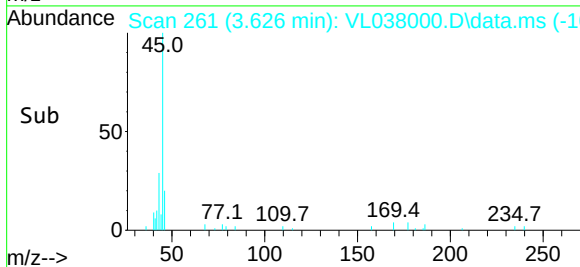
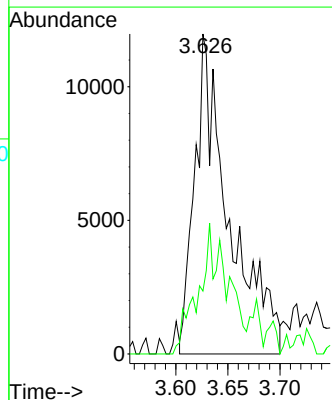
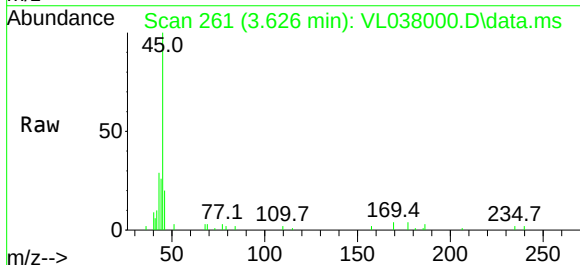
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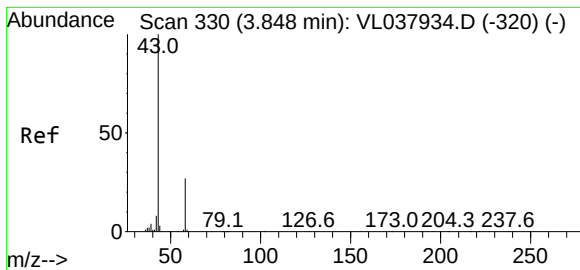
Reviewed By :Semsettin Yesilyurt 11/15/2021  
 Supervised By :Mahesh Dadoda 11/17/2021



#13  
 Ethanol  
 Concen: 2.979 ppbv m  
 RT: 3.626 min Scan# 261  
 Delta R.T. 0.013 min  
 Lab File: VL038000.D  
 Acq: 10 Nov 2021 4:38

Tgt Ion: 45 Resp: 27202  
 Ion Ratio Lower Upper  
 45 100  
 46 0.0 17.4 69.8#





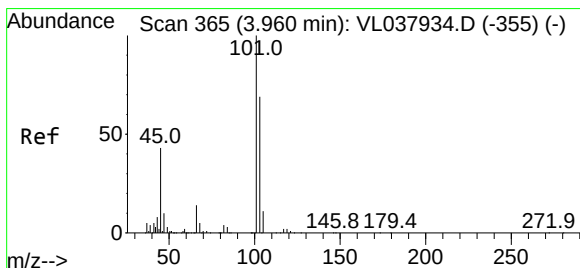
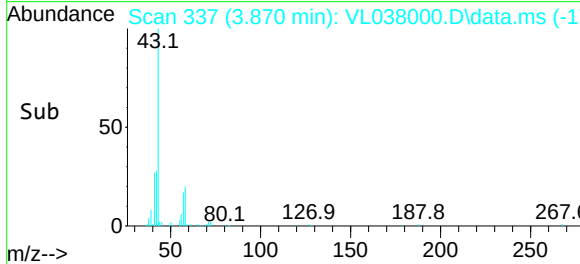
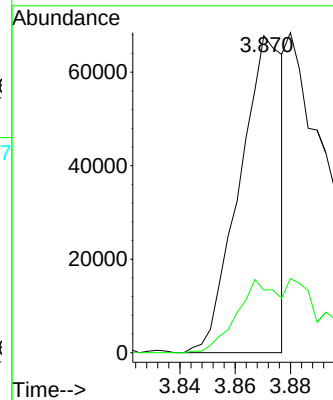
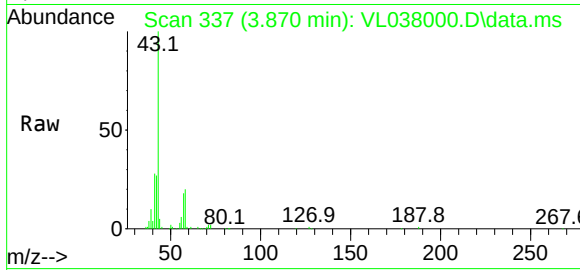
#15  
Acetone  
Concen: 0.653 ppbv m  
RT: 3.870 min Scan# 311  
Delta R.T. 0.022 min  
Lab File: VL038000.D  
Acq: 10 Nov 2021 4:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DL

Tgt Ion: 43 Resp: 73119  
Ion Ratio Lower Upper  
43 100  
58 0.0 23.3 34.9

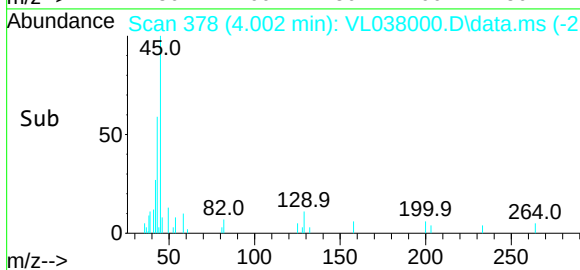
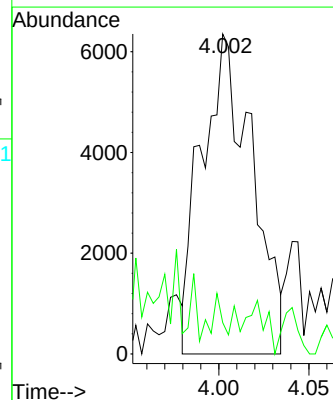
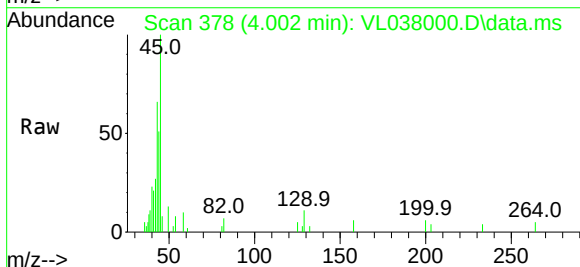
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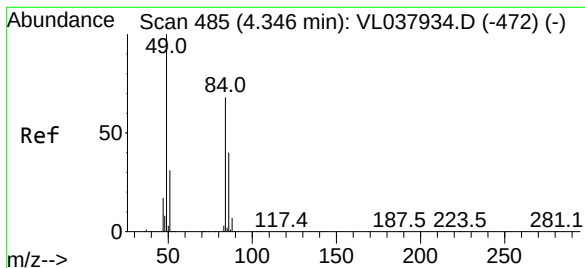
Reviewed By :Semsettin Yesilyurt 11/15/2021  
Supervised By :Mahesh Dadoda 11/17/2021



#19  
Isopropyl Alcohol  
Concen: 0.172 ppbv m  
RT: 4.002 min Scan# 378  
Delta R.T. 0.042 min  
Lab File: VL038000.D  
Acq: 10 Nov 2021 4:38

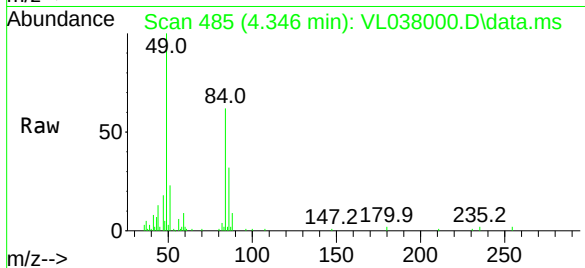
Tgt Ion: 45 Resp: 12328  
Ion Ratio Lower Upper  
45 100  
58 0.0 4.0 6.0





#20  
Methylene Chloride  
Concen: 0.616 ppbv m  
RT: 4.346 min Scan# 485  
Delta R.T. -0.000 min  
Lab File: VL038000.D  
Acq: 10 Nov 2021 4:38

Instrument :  
MSVOA\_L  
Client Sample Id :  
IA-2DL

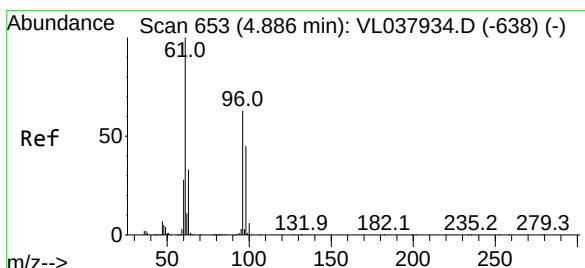
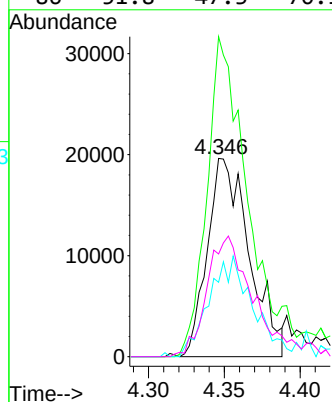
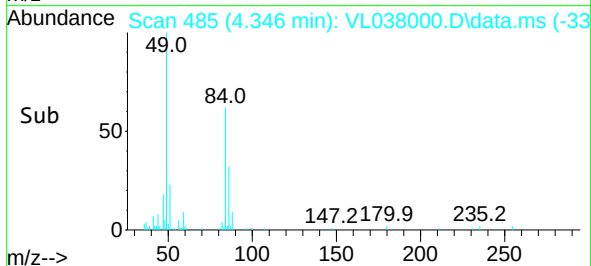


Tgt Ion: 84 Resp: 37919

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 161.4 | 117.5 | 176.3 |
| 51  | 37.5  | 35.9  | 53.9  |
| 86  | 51.8  | 47.3  | 70.9  |

Manual Integrations  
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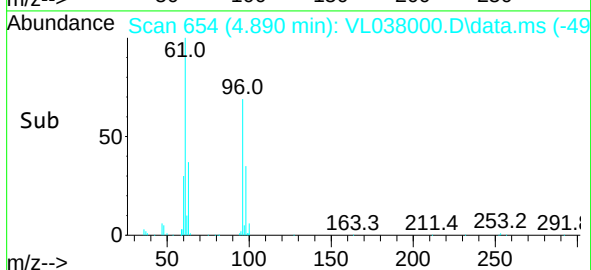
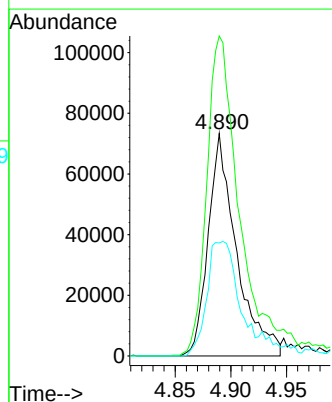
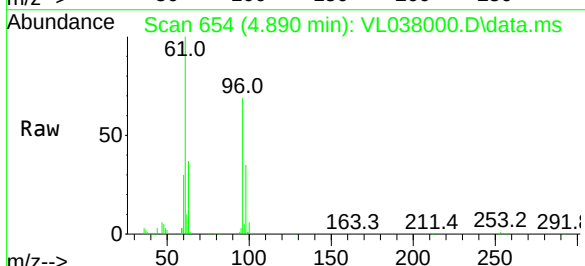
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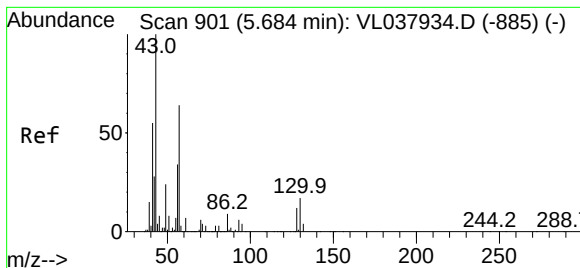


#22  
trans-1,2-Dichloroethene  
Concen: 1.913 ppbv  
RT: 4.890 min Scan# 654  
Delta R.T. 0.003 min  
Lab File: VL038000.D  
Acq: 10 Nov 2021 4:38

Tgt Ion: 96 Resp: 129752

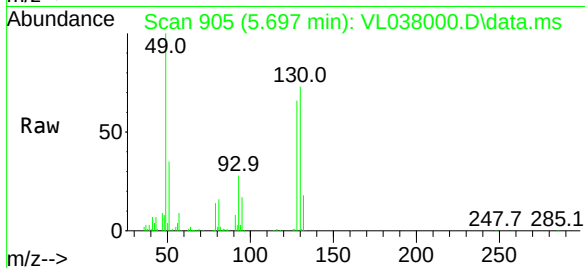
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 143.5 | 127.8 | 191.6 |
| 98  | 50.8  | 56.9  | 85.3  |





#26  
Hexane  
Concen: 0.159 ppbv m  
RT: 5.697 min Scan# 901  
Delta R.T. 0.013 min  
Lab File: VL038000.D  
Acq: 10 Nov 2021 4:38

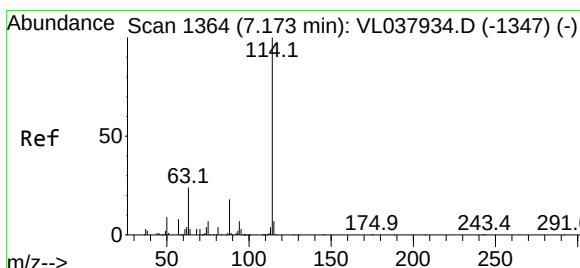
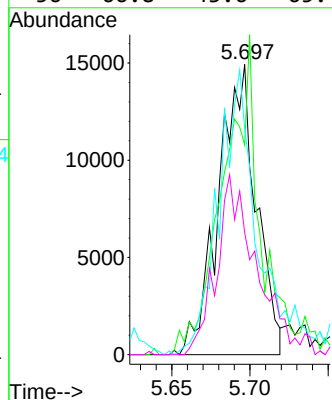
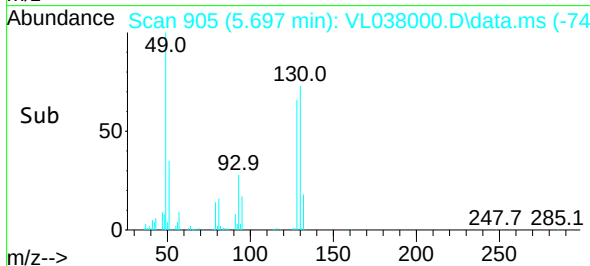
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DL



Tgt Ion: 57 Resp: 2505  
Ion Ratio Lower Upper  
57 100  
41 111.0 71.0 106.6  
43 101.8 173.0 259.6  
56 66.8 43.6 65.4

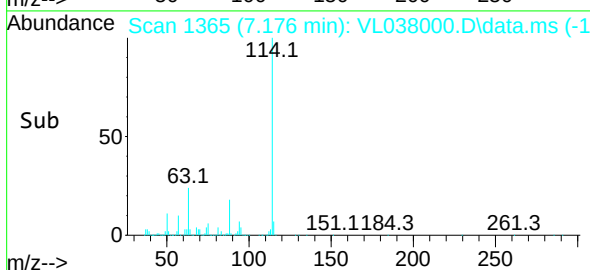
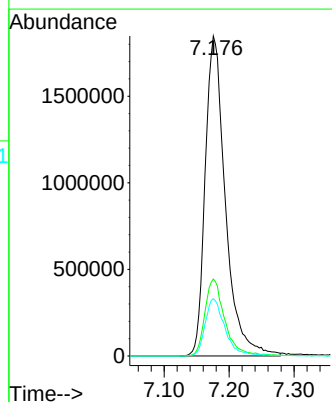
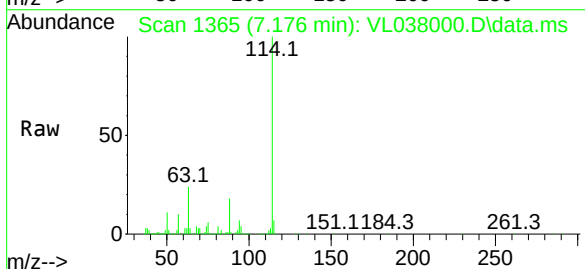
Manual Integrations  
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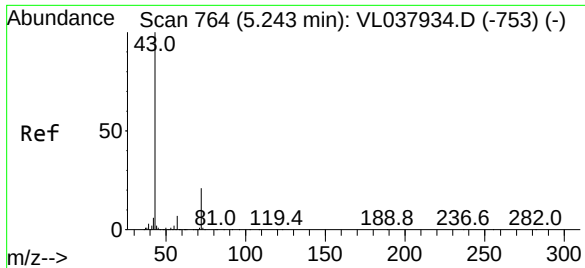
Reviewed By :Semsettin Yesilyurt 11/15/2021  
Supervised By :Mahesh Dadoda 11/17/2021



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.176 min Scan# 1365  
Delta R.T. 0.003 min  
Lab File: VL038000.D  
Acq: 10 Nov 2021 4:38

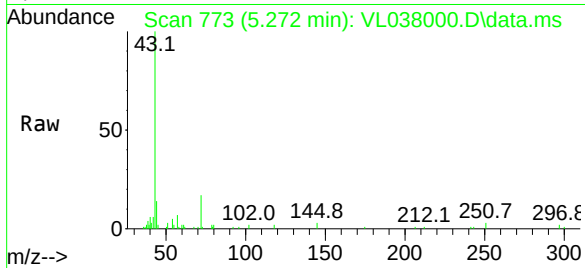
Tgt Ion:114 Resp: 4004490  
Ion Ratio Lower Upper  
114 100  
63 23.9 19.4 29.0  
88 17.7 14.2 21.4





#34  
2-Butanone  
Concen: 0.317 ppbv m  
RT: 5.272 min Scan# 71  
Delta R.T. 0.029 min  
Lab File: VL038000.D  
Acq: 10 Nov 2021 4:38

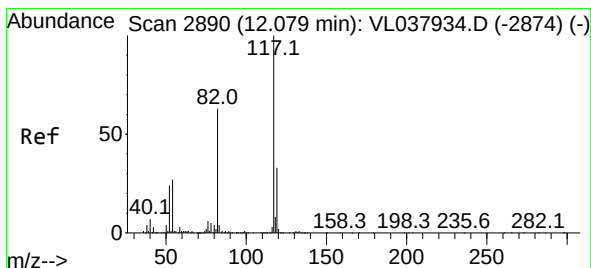
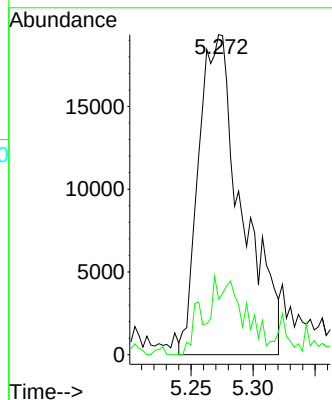
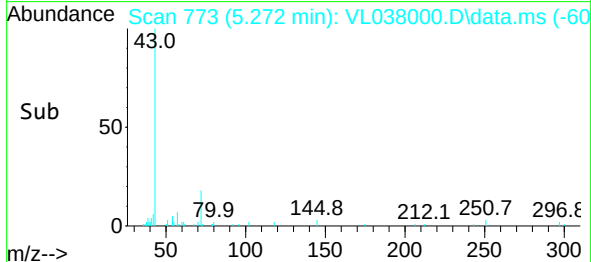
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DL



Tgt Ion: 43 Resp: 4697  
Ion Ratio Lower Upper  
43 100  
72 0.0 18.3 27.5

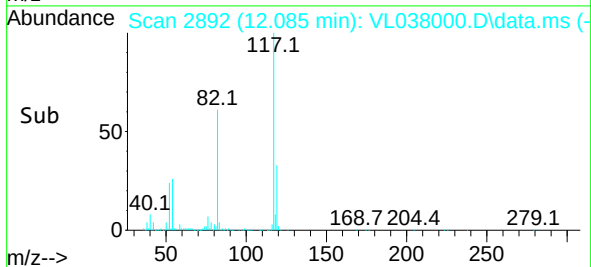
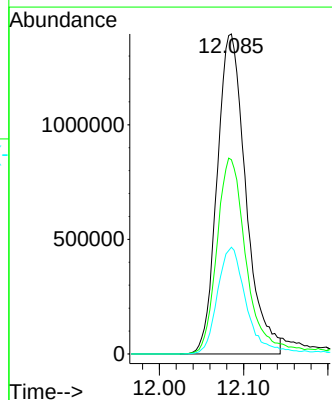
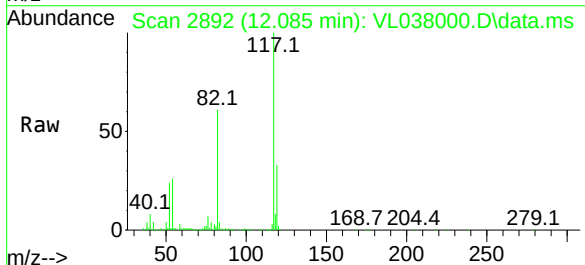
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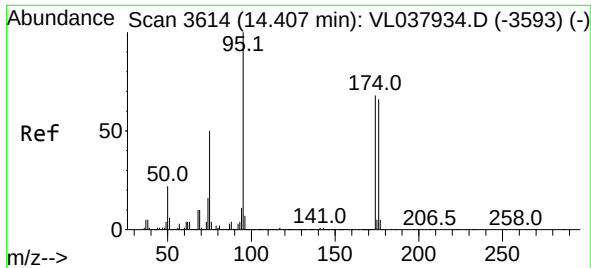


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.085 min Scan# 2892  
Delta R.T. 0.006 min  
Lab File: VL038000.D  
Acq: 10 Nov 2021 4:38

Tgt Ion:117 Resp: 3305013  
Ion Ratio Lower Upper  
117 100  
82 64.8 51.0 76.6  
119 34.7 26.9 40.3

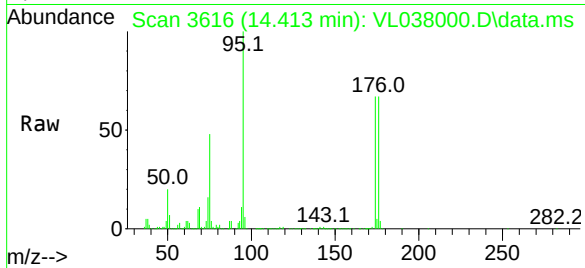






#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.877 ppbv  
 RT: 14.413 min Scan# 30  
 Delta R.T. 0.006 min  
 Lab File: VL038000.D  
 Acq: 10 Nov 2021 4:38

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DL



Tgt Ion: 95 Resp: 237288  
 Ion Ratio Lower Upper  
 95 100  
 174 72.2 58.3 87.5  
 175 5.3 4.6 6.8

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