

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\  
 Data File : VL038208.D  
 Acq On : 17 Dec 2021 3:36  
 Operator : SY/AP  
 Sample : M5119-03DL2 40X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 SG-4DL2

Manual Integrations  
 APPROVED

Reviewed By :Amit Patel 12/20/2021  
 Supervised By :Mahesh Dadoda 12/20/2021

Quant Time: Dec 18 04:43:38 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Thu Nov 18 13:16:09 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 759939   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 2404343  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 2100852  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 1576962  | 10.41    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.10% |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 3.06  | 85   | 8703890  | 69.339 | ppbv # | 85     |
| 3) Chlorodifluoromethane   | 3.00  | 51   | 77473    | 0.485  | ppbv   | 98     |
| 9) Propene                 | 3.03  | 41   | 653487   | 11.119 | ppbv # | 75     |
| 10) Heptane                | 8.13  | 43   | 196582   | 1.353  | ppbv   | 98     |
| 13) Ethanol                | 3.63  | 45   | 6775m    | 1.193  | ppbv   |        |
| 15) Acetone                | 3.86  | 43   | 246005   | 3.734  | ppbv   | 95     |
| 19) Isopropyl Alcohol      | 3.99  | 45   | 108295   | 2.275  | ppbv # | 96     |
| 20) Methylene Chloride     | 4.35  | 84   | 46312    | 1.255  | ppbv   | 96     |
| 26) Hexane                 | 5.69  | 57   | 32292    | 0.306  | ppbv # | 50     |
| 34) 2-Butanone             | 5.26  | 43   | 110374m  | 1.138  | ppbv   |        |
| 58) Ethyl Benzene          | 12.72 | 91   | 885367   | 2.550  | ppbv   | 98     |
| 59) m/p-Xylene             | 12.97 | 91   | 1375973  | 4.707  | ppbv   | 95     |
| 60) o-Xylene               | 13.69 | 91   | 292518   | 1.079  | ppbv   | 99     |

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

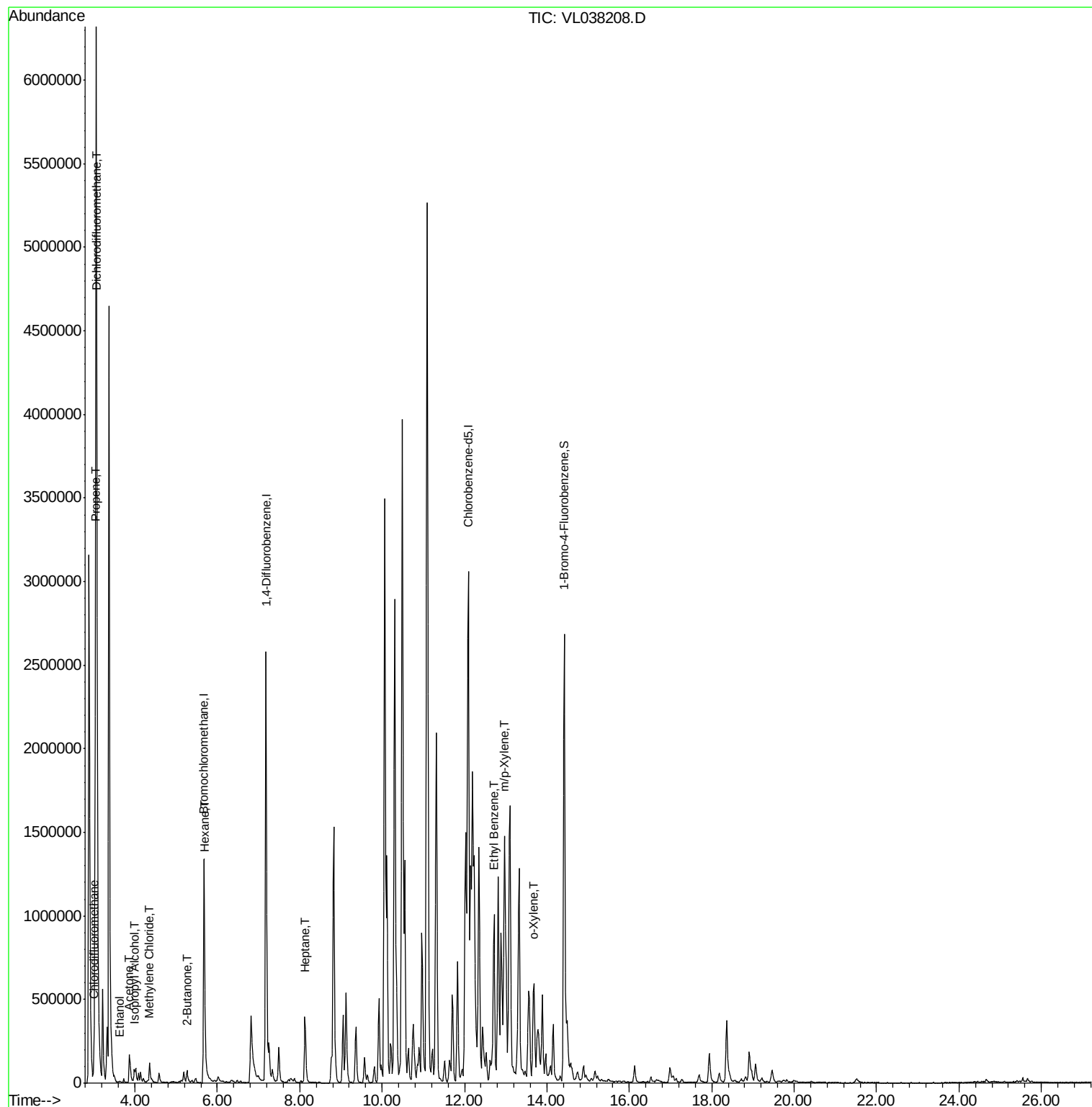
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121621\  
Data File : VL038208.D  
Acq On : 17 Dec 2021 3:36  
Operator : SY/AP  
Sample : M5119-03DL2 40X  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

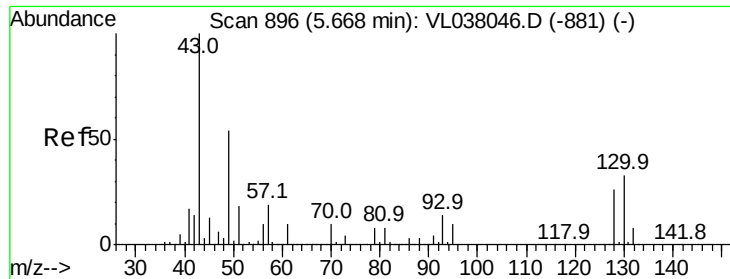
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-4DL2

Manual Integrations  
APPROVED

Quant Time: Dec 18 04:43:38 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
QLast Update : Thu Nov 18 13:16:09 2021  
Response via : Initial Calibration

Reviewed By :Amit Patel 12/20/2021  
Supervised By :Mahesh Dadoda 12/20/2021



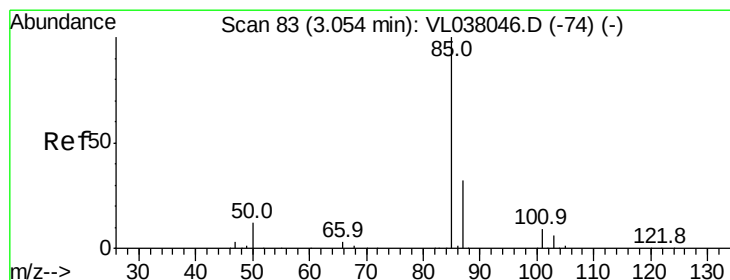
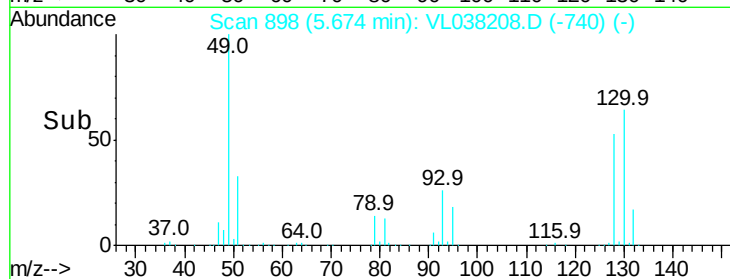
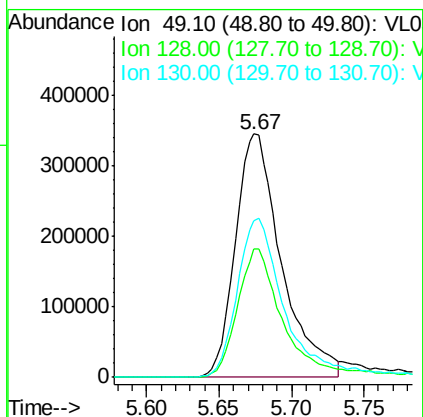
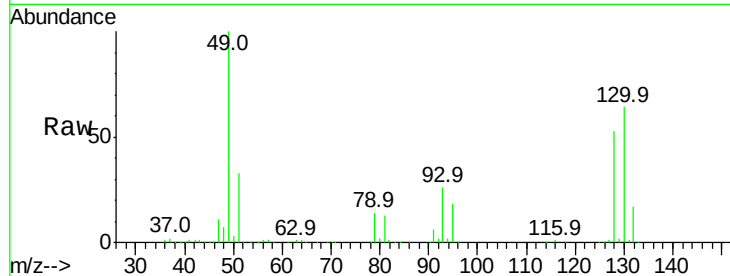


#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.67  
 Instrument: MSVOA\_L  
 Delta R.T.:  
 ClientSampleId:  
 Lab File: SG-4DL2  
 Acq: 17 Dec 2021 3:30

Tot Ion:  
 Ion Ratio  
 49 100  
 128 54.  
 130 69.

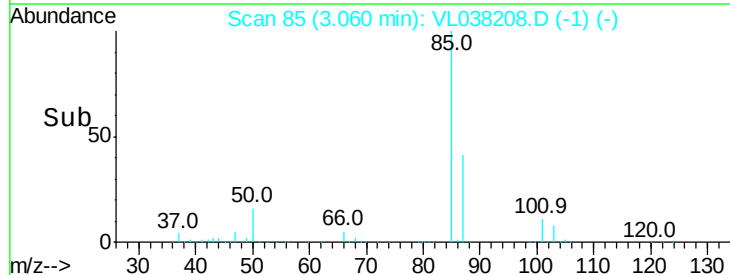
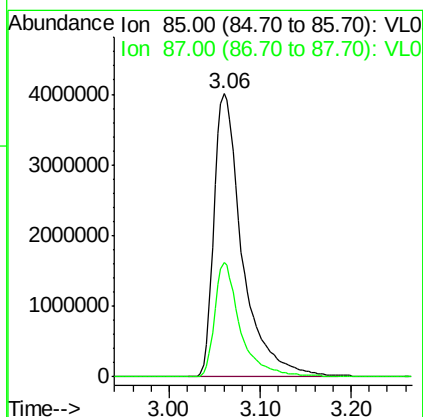
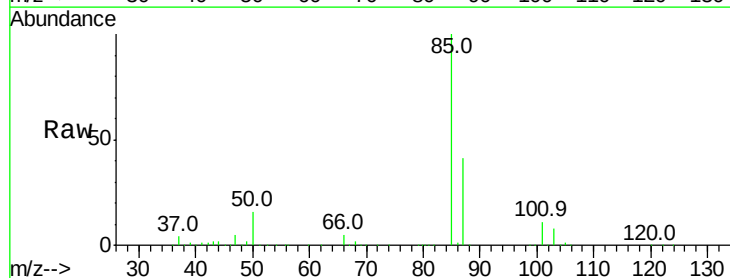
Manual Integrations  
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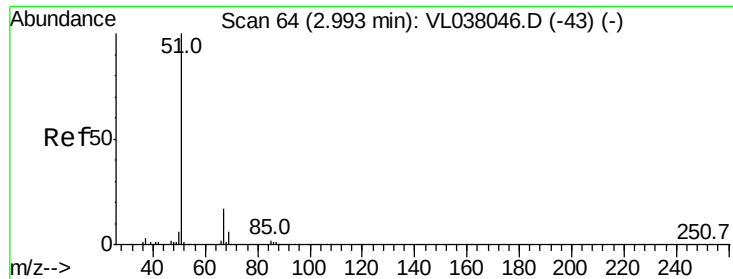
Reviewed By :Amit Patel 12/20/2021  
 Supervised By :Mahesh Dadoda 12/20/2021



#2  
 Dichlorodifluoromethane  
 Concen: 69.339 ppbv  
 RT: 3.06 min Scan# 85  
 Delta R.T. 0.01 min  
 Lab File: VL038208.D  
 Acq: 17 Dec 2021 3:36

Tgt Ion: 85 Resp: 8703890  
 Ion Ratio Lower Upper  
 85 100  
 87 40.6 25.8 38.6#



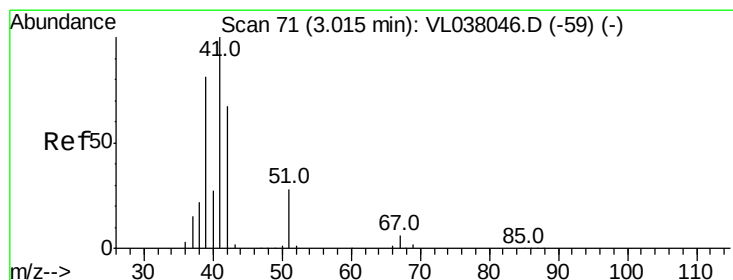
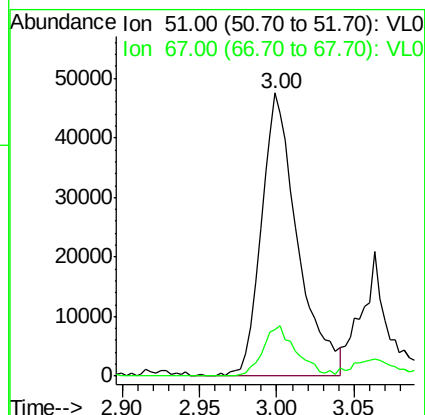
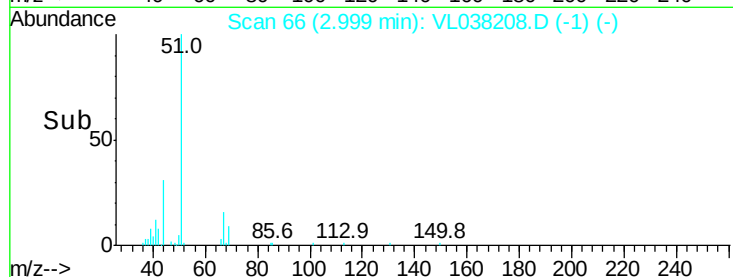
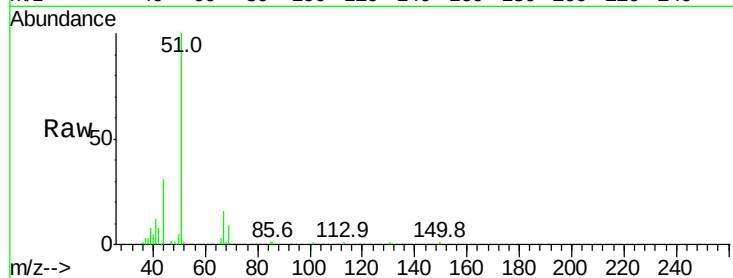


#3  
Chlorodifluoromethane  
Concen: 0.485 ppbv  
RT: 3.00  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 17 Dec 2021 3:30

Tot Ion:  
Ion Ratio  
51 100  
67 16.

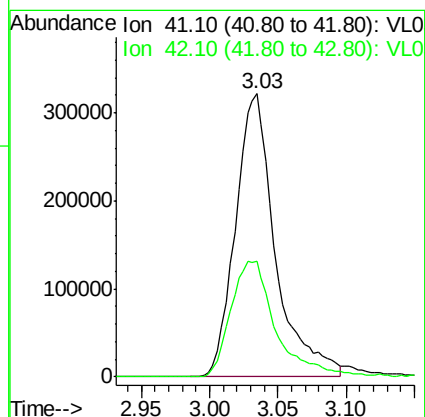
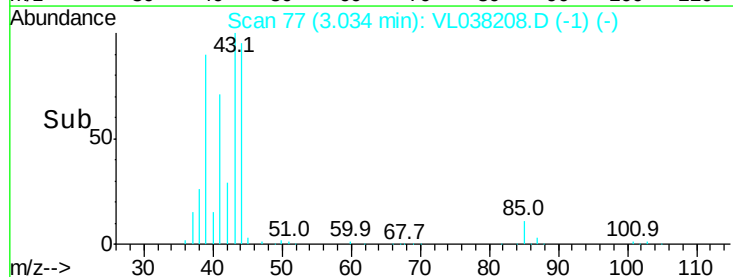
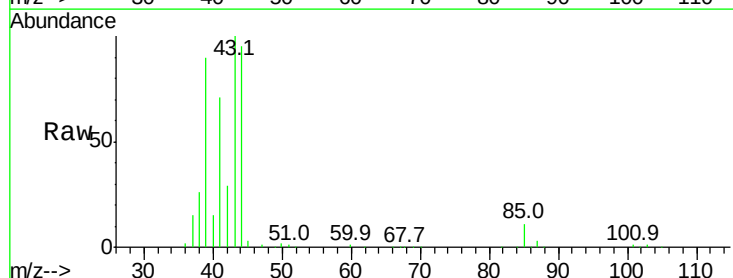
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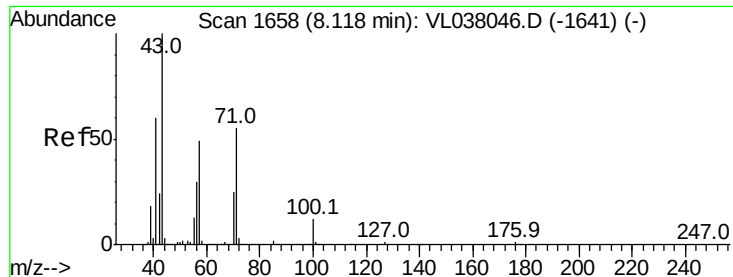
Reviewed By :Amit Patel 12/20/2021  
Supervised By :Mahesh Dadoda 12/20/2021



#9  
Propene  
Concen: 11.119 ppbv  
RT: 3.03 min Scan# 77  
Delta R.T. 0.02 min  
Lab File: VL038208.D  
Acq: 17 Dec 2021 3:36

Tgt Ion: 41 Resp: 653487  
Ion Ratio Lower Upper  
41 100  
42 46.9 53.8 80.8#



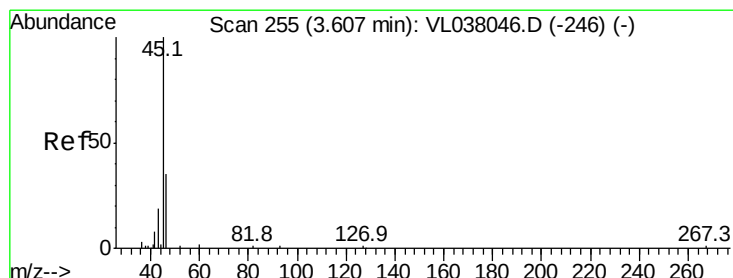
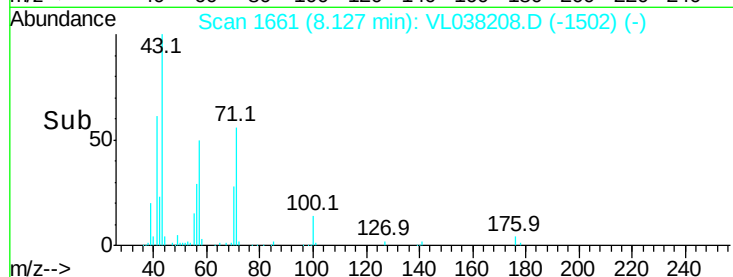
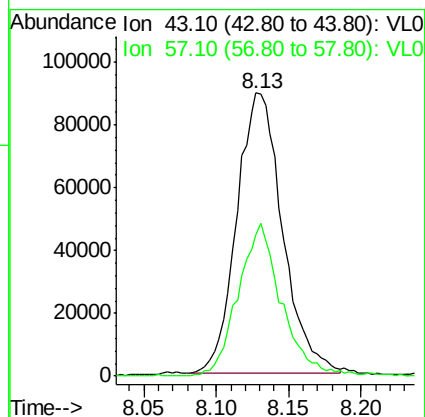
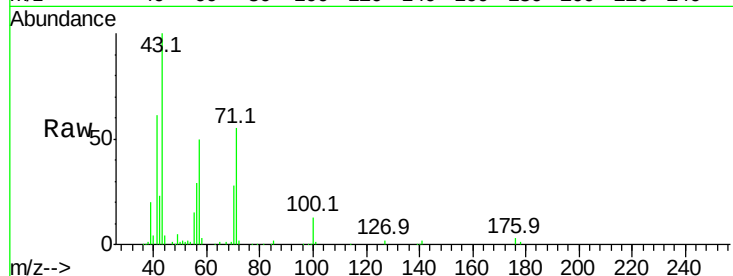


#10  
Heptane  
Concen: 1.353 ppbv  
RT: 8.13  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 17 Dec 2021 3:30

Tot Ion:  
Ion Ratio  
43 100  
57 52.

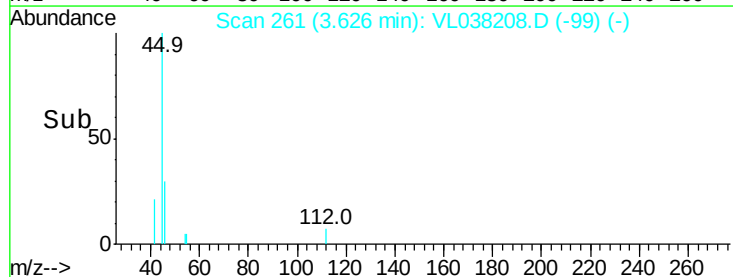
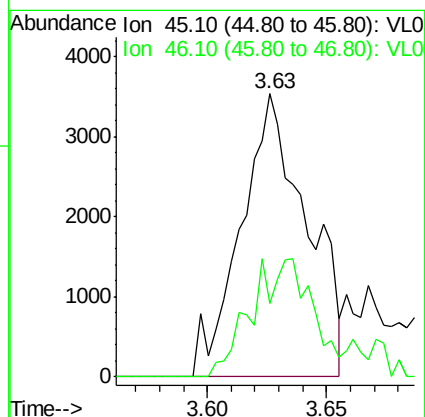
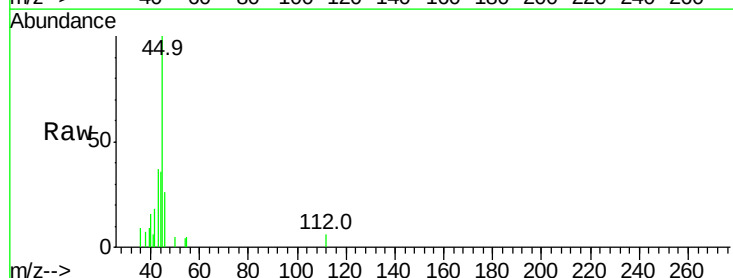
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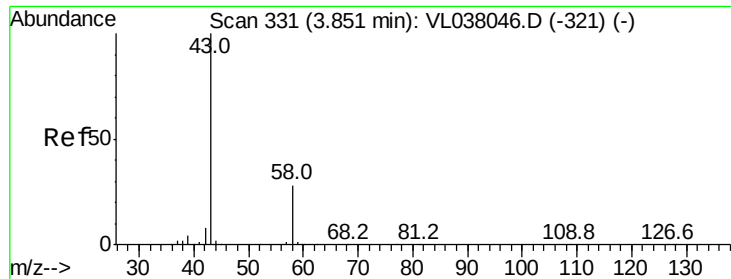
Reviewed By :Amit Patel 12/20/2021  
Supervised By :Mahesh Dadoda 12/20/2021



#13  
Ethanol  
Concen: 1.193 ppbv m  
RT: 3.63 min Scan# 261  
Delta R.T. 0.02 min  
Lab File: VL038208.D  
Acq: 17 Dec 2021 3:36

Tgt Ion: 45 Resp: 6775  
Ion Ratio Lower Upper  
45 100  
46 48.9 17.6 70.2



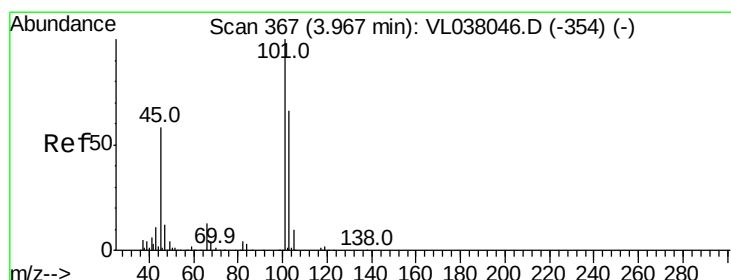
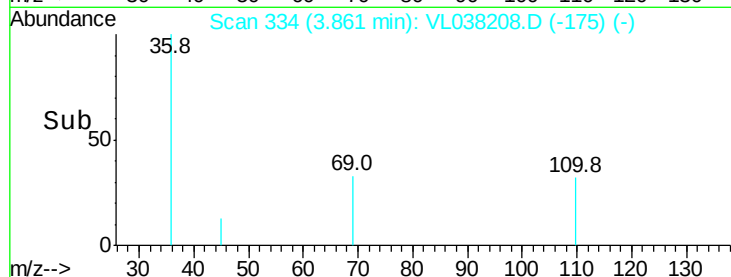
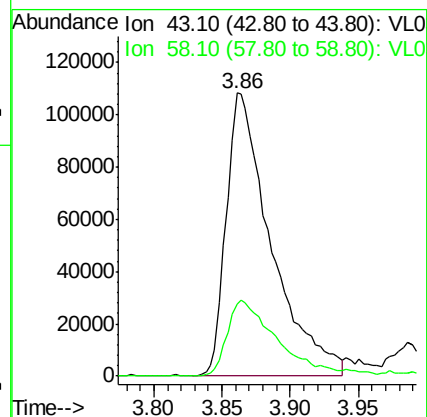
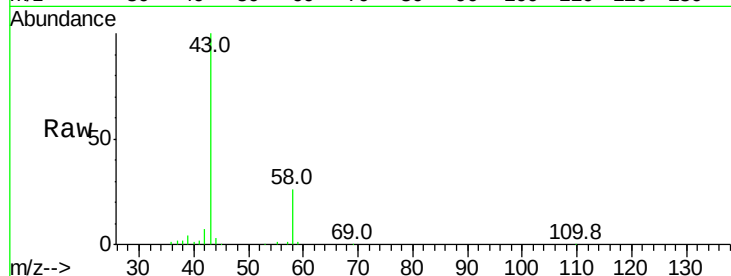


#15  
Acetone  
Concen: 3.734 ppbv  
RT: 3.86  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 17 Dec 2021 3:30

Tot Ion:  
Ion Ratio  
43 100  
58 30.

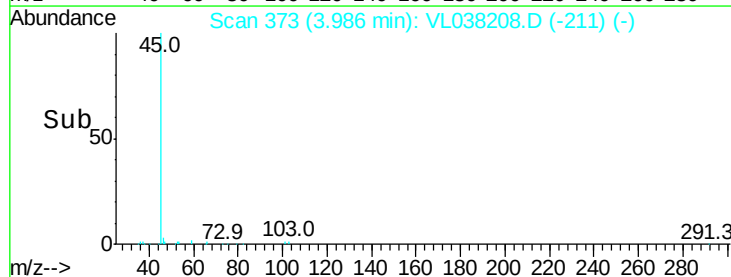
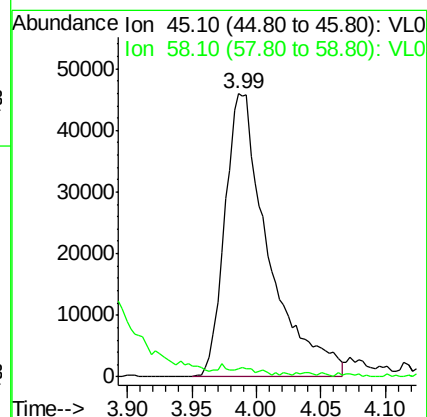
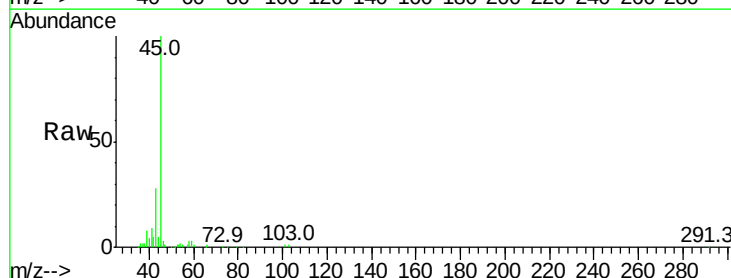
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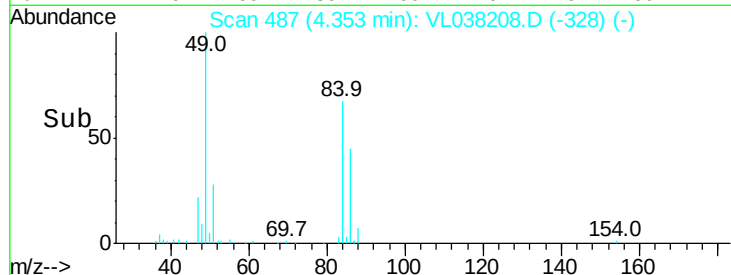
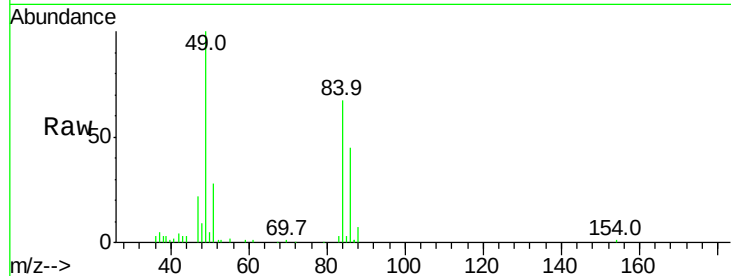
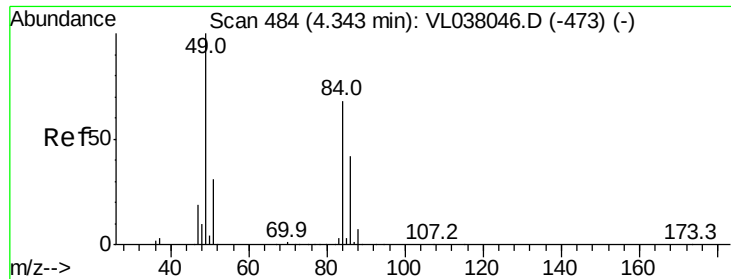
Reviewed By :Amit Patel 12/20/2021  
Supervised By :Mahesh Dadoda 12/20/2021



#19  
Isopropyl Alcohol  
Concen: 2.275 ppbv  
RT: 3.99 min Scan# 373  
Delta R.T. 0.02 min  
Lab File: VL038208.D  
Acq: 17 Dec 2021 3:36

Tgt Ion: 45 Resp: 108295  
Ion Ratio Lower Upper  
45 100  
58 3.1 1.4 2.0#



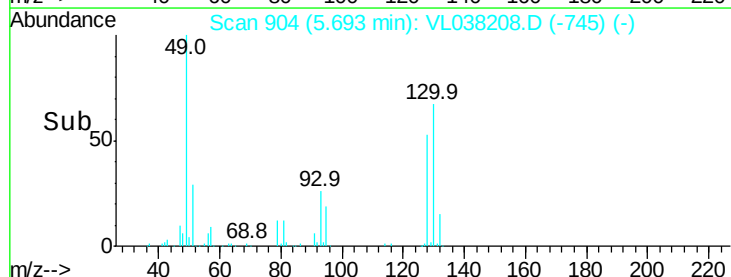
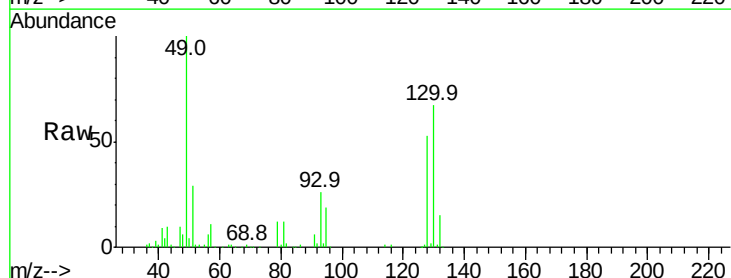
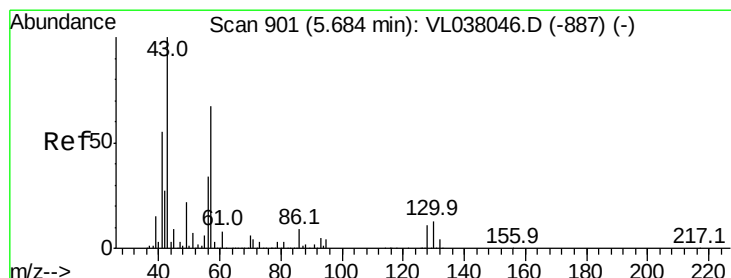
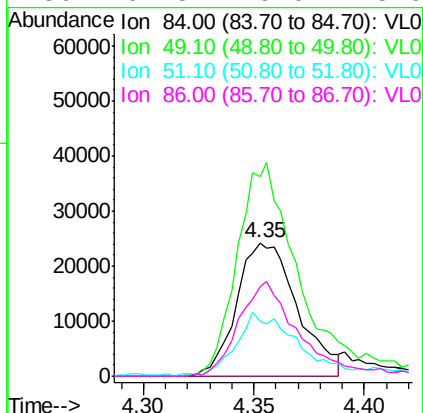


#20  
Methvlene Chloride  
Concen: 1.255 ppbv  
RT: 4.35  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 17 Dec 2021 3:30

Tot Ion:  
Ion Ratio  
84 100  
49 148.  
51 39.  
86 67.3 49.0 73.6

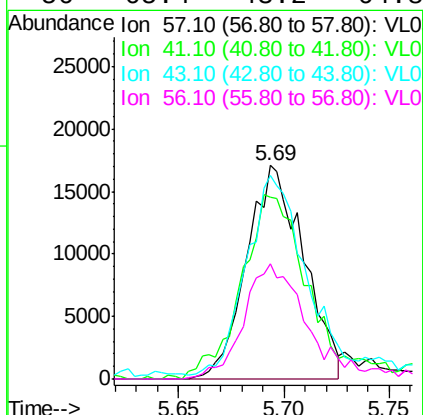
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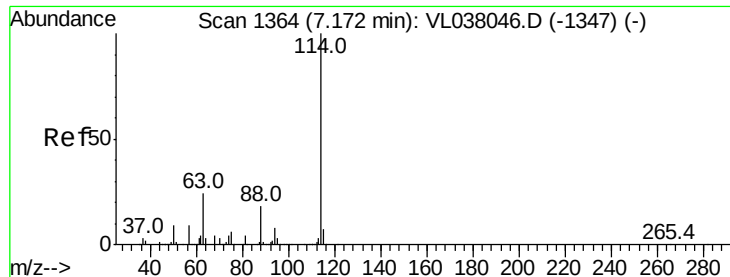
Reviewed By :Amit Patel 12/20/2021  
Supervised By :Mahesh Dadoda 12/20/2021



#26  
Hexane  
Concen: 0.306 ppbv  
RT: 5.69 min Scan# 904  
Delta R.T. 0.01 min  
Lab File: VL038208.D  
Acq: 17 Dec 2021 3:36

Tgt Ion: 57 Resp: 32292  
Ion Ratio Lower Upper  
57 100  
41 104.1 71.4 107.2  
43 102.8 174.6 261.8#  
56 65.4 43.2 64.8#



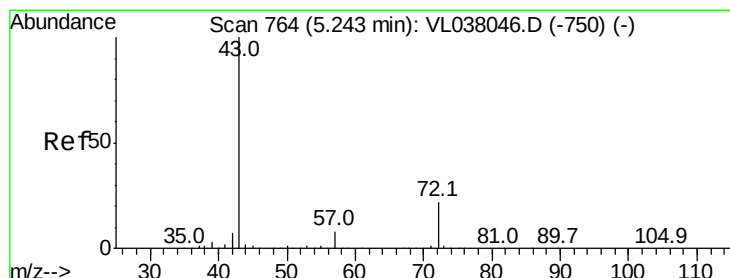
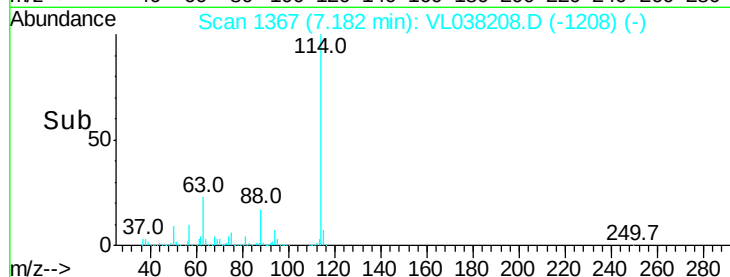
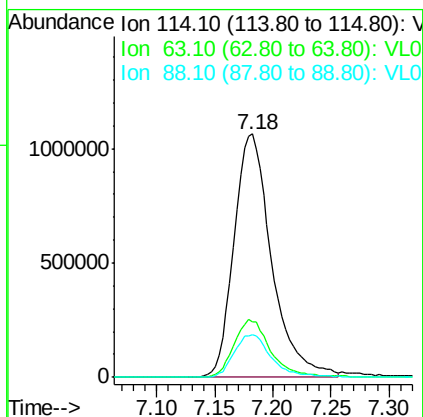
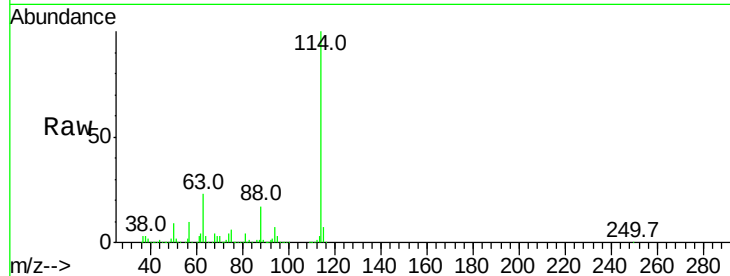


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18  
 Instrument: MSVOA\_L  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 SG-4DL2  
 Acq: 17 Dec 2021 3:30

Tot Ion:1  
 Ion Rati  
 114 100  
 63 23.  
 88 17.

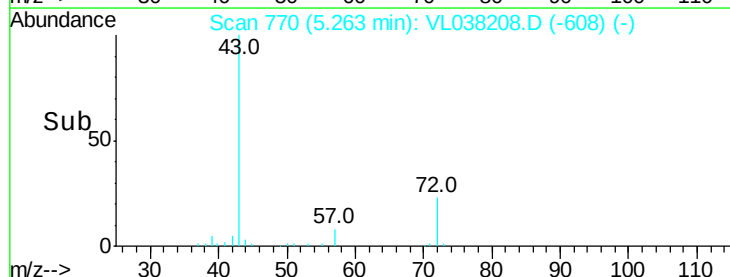
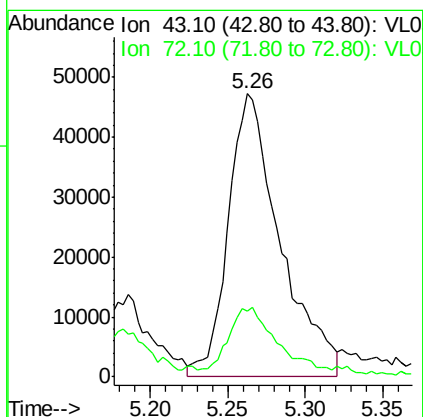
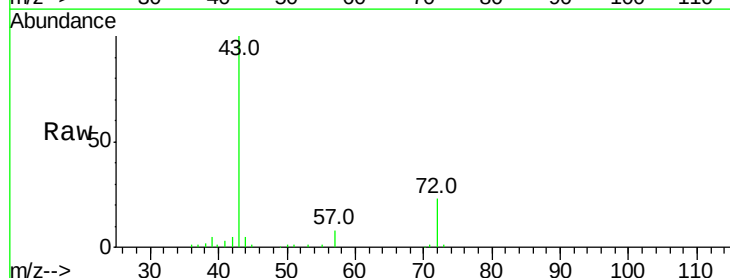
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 Supervised By :Mahesh Dadoda 12/20/2021

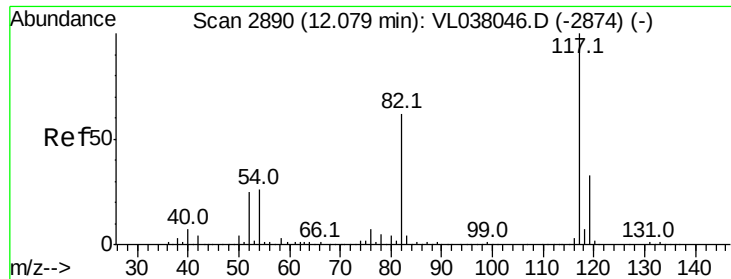


#34  
 2-Butanone  
 Concen: 1.138 ppbv m  
 RT: 5.26 min Scan# 770  
 Delta R.T. 0.02 min  
 Lab File: VL038208.D  
 Acq: 17 Dec 2021 3:36

Tgt Ion: 43 Resp: 110374  
 Ion Ratio Lower Upper  
 43 100  
 72 27.3 18.8 28.2





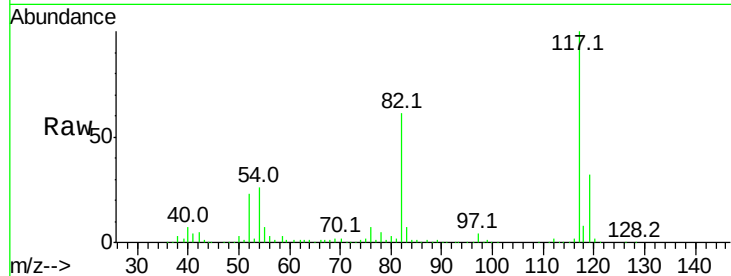


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.09 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 17 Dec 2021 3:30

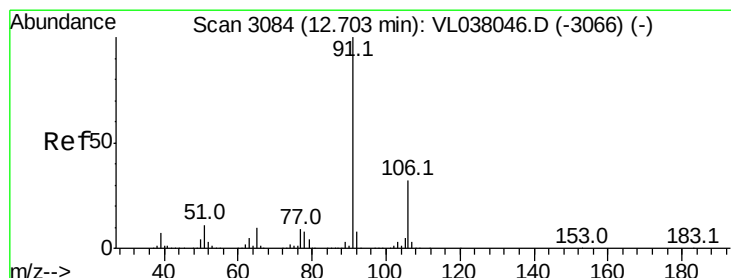
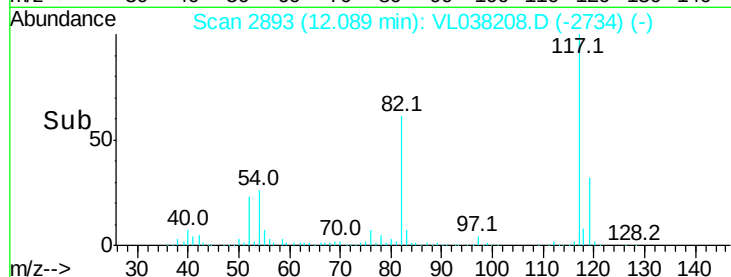
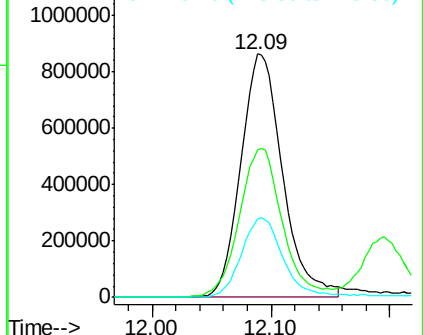
Tot Ion:1  
Ion Rati  
117 100  
82 63.  
119 34.

Manual Integrations  
APPROVED

Reviewed By :Amit Patel 12/20/2021  
Supervised By :Mahesh Dadoda 12/20/2021

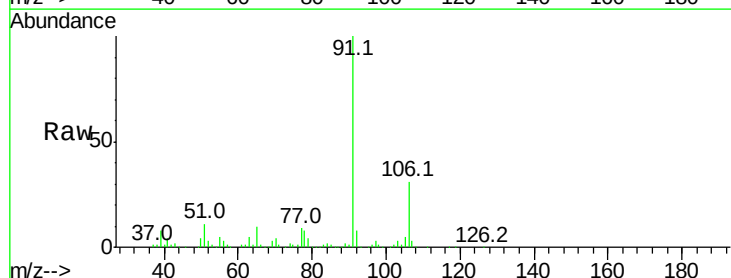


Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): VL0  
Ion 119.10 (118.80 to 119.80): V

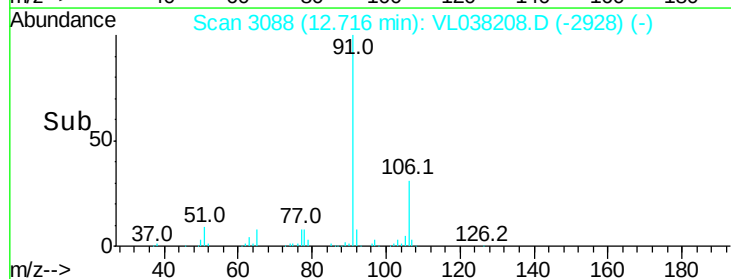
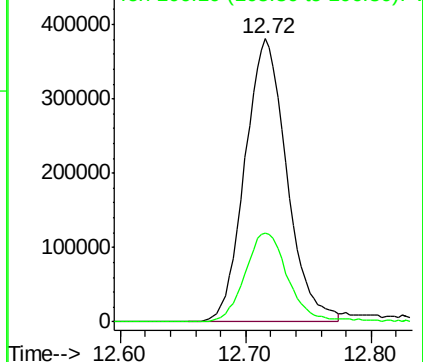


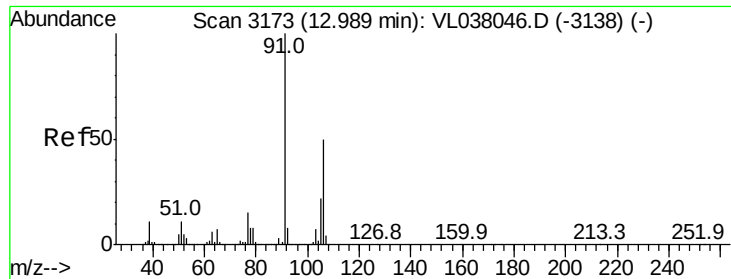
#58  
Ethyl Benzene  
Concen: 2.550 ppbv  
RT: 12.72 min Scan# 3088  
Delta R.T. 0.01 min  
Lab File: VL038208.D  
Acq: 17 Dec 2021 3:36

Tgt Ion: 91 Resp: 885367  
Ion Ratio Lower Upper  
91 100  
106 31.3 25.8 38.6



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V



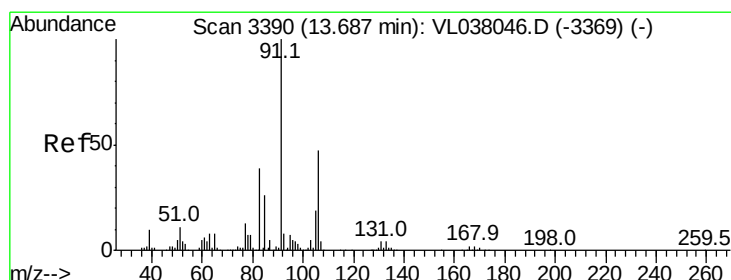
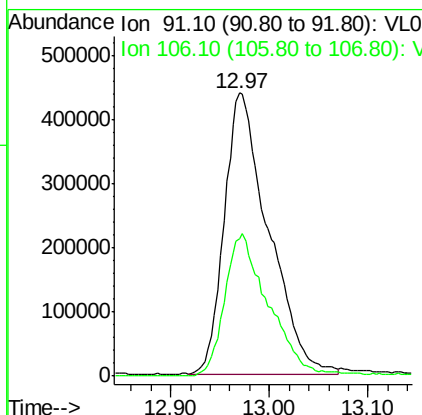
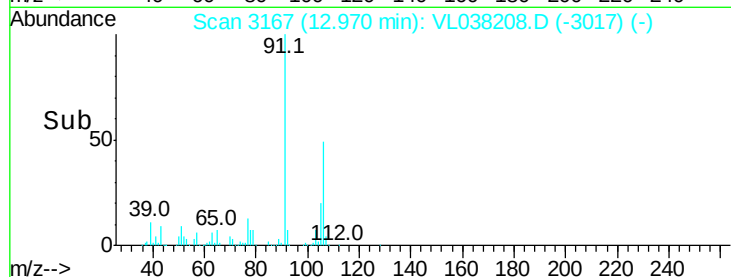
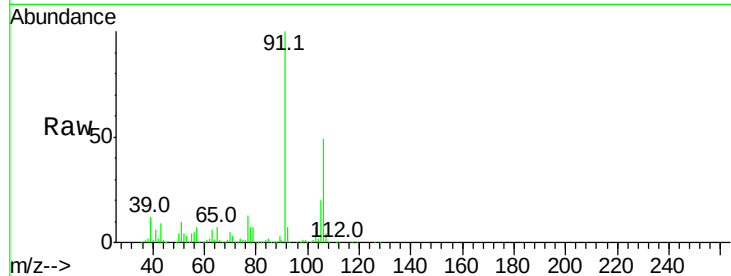


#59  
m/p-Xylene  
Concen: 4.707 ppbv  
RT: 12.97 min  
Delta R.T. MSVOA\_1  
Lab File: ClientSampleId :  
Acq: 17 Dec 2021 3:30

Tot Ion:  
Ion Ratio  
91 100  
106 51.

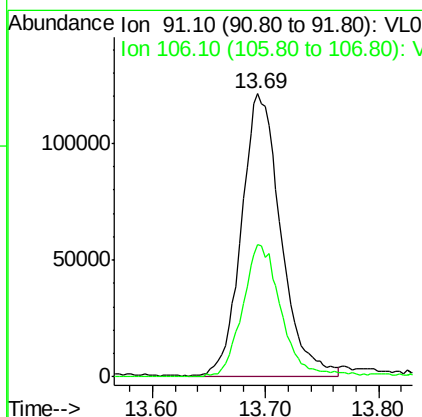
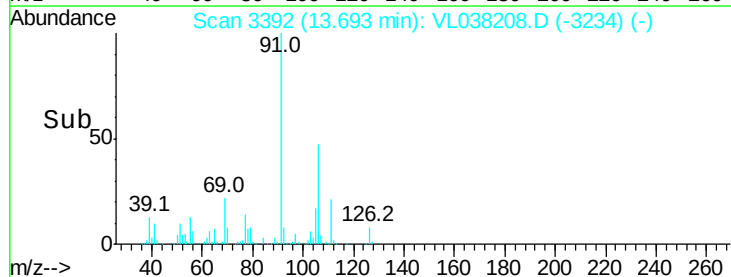
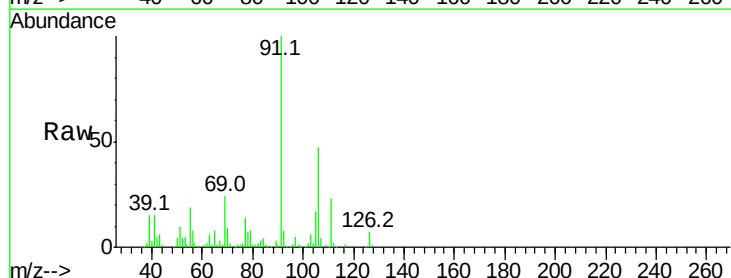
Manual Integrations  
APPROVED

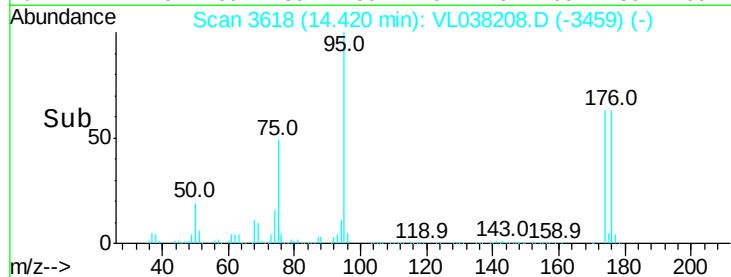
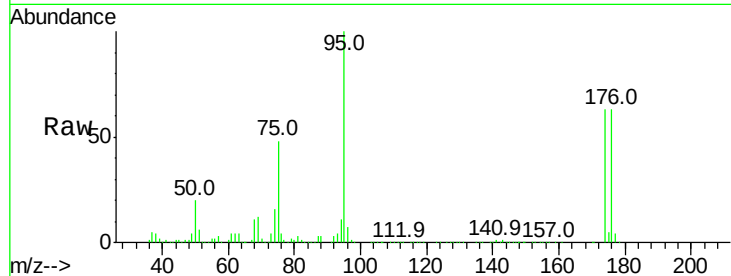
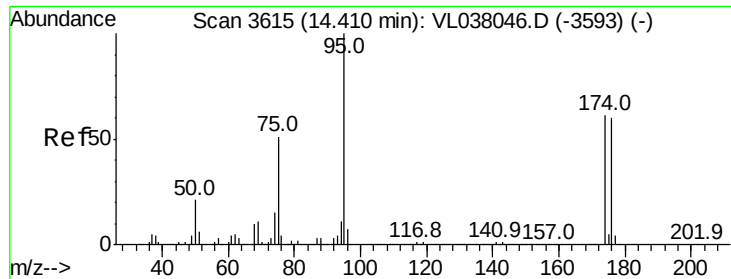
Reviewed By :Amit Patel 12/20/2021  
Supervised By :Mahesh Dadoda 12/20/2021



#60  
o-Xylene  
Concen: 1.079 ppbv  
RT: 13.69 min Scan# 3392  
Delta R.T. 0.01 min  
Lab File: VL038208.D  
Acq: 17 Dec 2021 3:36

Tgt Ion: 91 Resp: 292518  
Ion Ratio Lower Upper  
91 100  
106 47.9 24.2 72.6





#68

1-Bromo-4-Fluorobenzene

Concen: 10.406 ppbv

RT: 14.42

Delta R.T: MSVOA\_L

Lab File: ClientSampleId :

Acq: 17 Dec 2021 SG-4DL2

Tot Ion:

Ion Ratio

95 100

174 67.

175 4.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021

