

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112921\  
 Data File : VL038141.D  
 Acq On : 29 Nov 2021 18:54  
 Operator : SY/AP  
 Sample : M4827-03  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 AA-1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/30/2021  
 Supervised By :Mahesh Dadoda 12/01/2021

Quant Time: Nov 30 06:35:19 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   | 649066   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2522867  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 2197810  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 1760558  | 11.11    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 111.10% |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 3.05  | 85   | 40359    | 0.376  | ppbv   | 94     |
| 3) Chlorodifluoromethane   | 3.00  | 51   | 46271    | 0.339  | ppbv   | 92     |
| 4) Chloromethane           | 3.15  | 50   | 27777    | 0.599  | ppbv # | 85     |
| 9) Propene                 | 3.02  | 41   | 28250    | 0.563  | ppbv   | 87     |
| 11) Trichlorofluoromethane | 3.95  | 101  | 29768    | 0.292  | ppbv   | 84     |
| 13) Ethanol                | 3.61  | 45   | 126774m  | 26.133 | ppbv   |        |
| 15) Acetone                | 3.85  | 43   | 439883   | 7.817  | ppbv   | 98     |
| 19) Isopropyl Alcohol      | 3.99  | 45   | 31503m   | 0.775  | ppbv   |        |
| 20) Methylene Chloride     | 4.35  | 84   | 1017579  | 32.283 | ppbv   | 99     |
| 26) Hexane                 | 5.69  | 57   | 386041   | 4.282  | ppbv # | 45     |
| 34) 2-Butanone             | 5.25  | 43   | 15302m   | 0.150  | ppbv   |        |
| 35) Carbon Tetrachloride   | 7.02  | 117  | 9323m    | 0.053  | ppbv   |        |
| 36) Benzene                | 6.90  | 78   | 38292    | 0.152  | ppbv # | 92     |
| 52) Tetrachloroethene      | 11.22 | 164  | 26515m   | 0.285  | ppbv   |        |
| 53) Toluene                | 9.80  | 91   | 52606    | 0.182  | ppbv   | 97     |
| 59) m/p-Xylene             | 12.96 | 91   | 63464m   | 0.208  | ppbv   |        |
| 60) o-Xylene               | 13.68 | 91   | 28986m   | 0.102  | ppbv   |        |

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

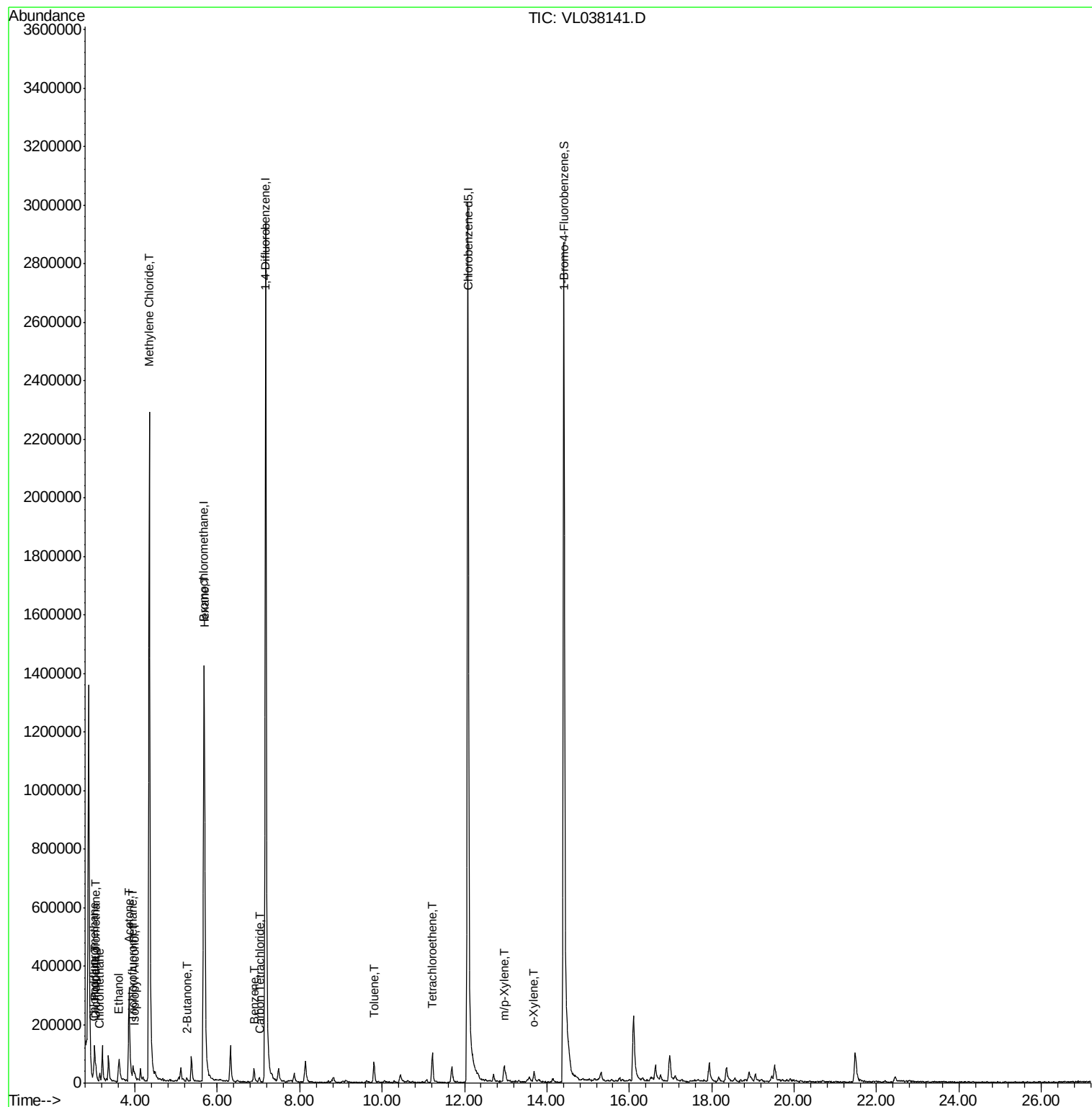
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112921\  
Data File : VL038141.D  
Acq On : 29 Nov 2021 18:54  
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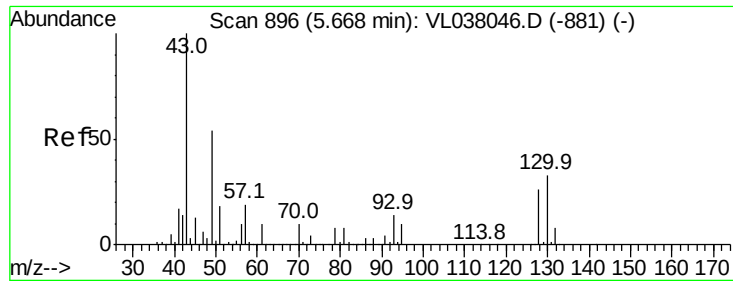
Instrument :  
MSVOA\_L  
ClientSampleId :  
AA-1

Quant Time: Nov 30 06:35:19 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

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 11/30/2021  
Supervised By :Mahesh Dadoda 12/01/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: AA-1

Acq: 29 Nov 2021 18:54

Tot Ion:

Ion Ratio

49 100

128 48.

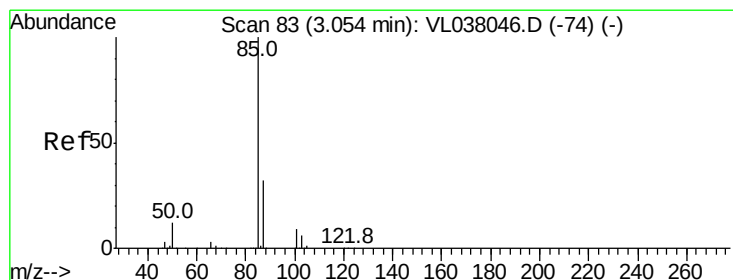
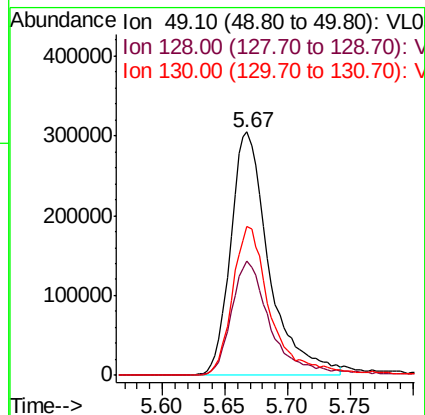
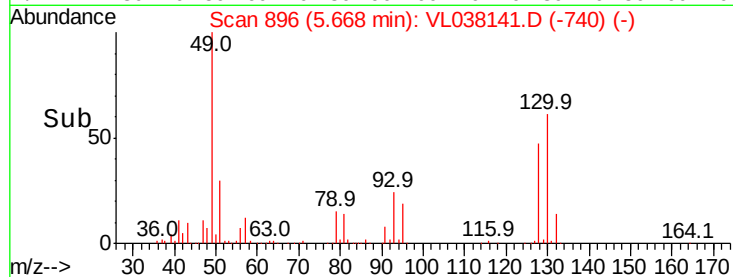
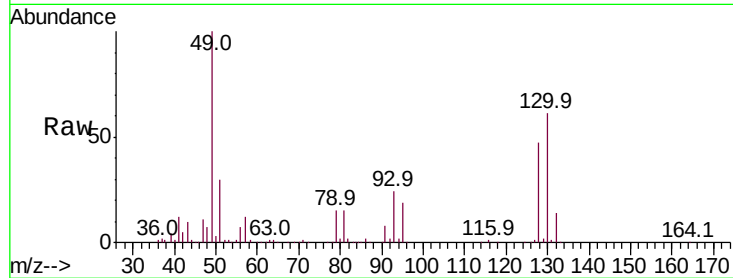
130 61.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#2

Dichlorodifluoromethane

Concen: 0.376 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL038141.D

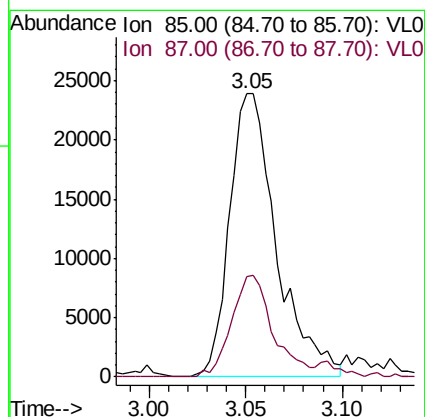
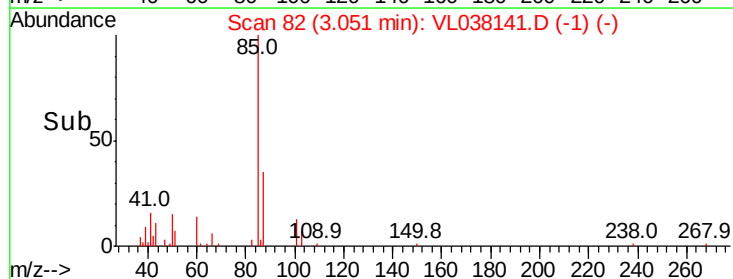
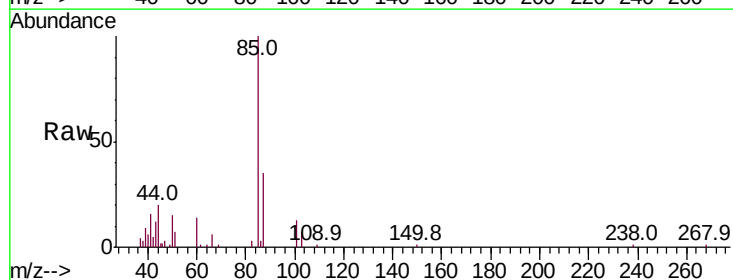
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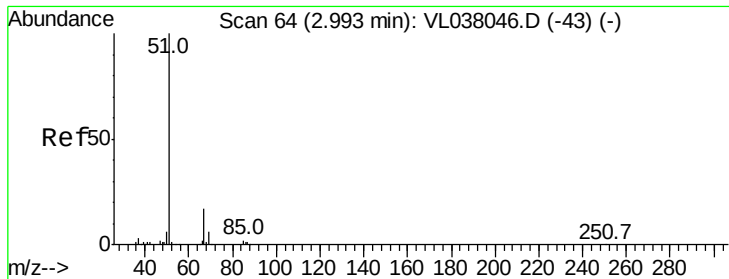
Tgt Ion: 85 Resp: 40359

Ion Ratio Lower Upper

85 100

87 35.5 25.8 38.6





#3

Chlorodifluoromethane

Concen: 0.339 ppbv

RT: 3.00

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 18:54

Tot Ion:

Ion Ratio

51 100

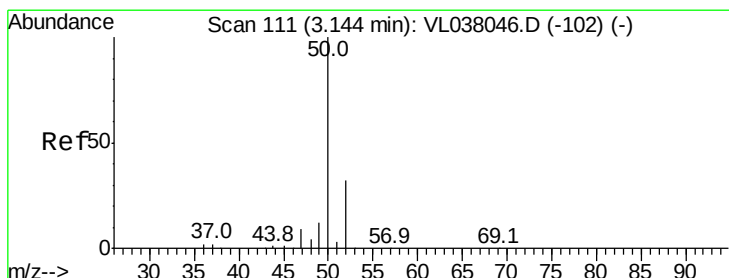
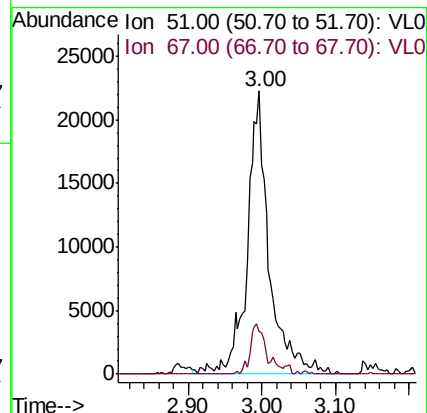
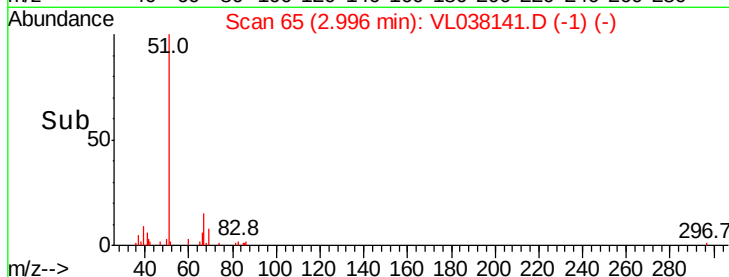
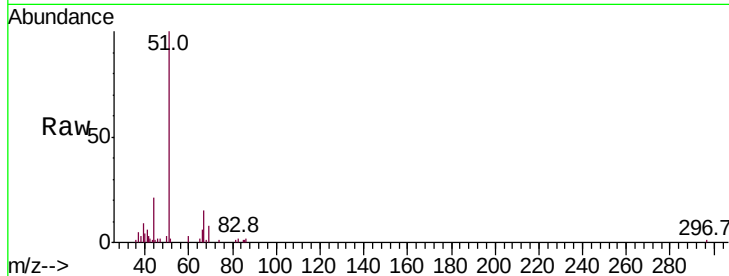
67 13.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#4

Chloromethane

Concen: 0.599 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL038141.D

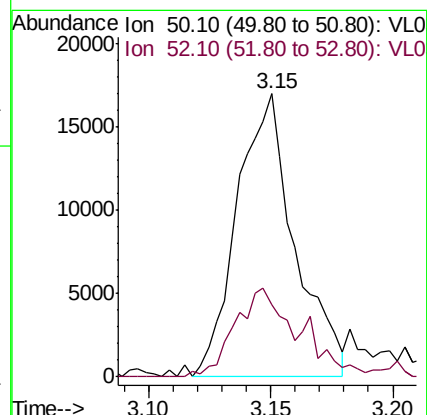
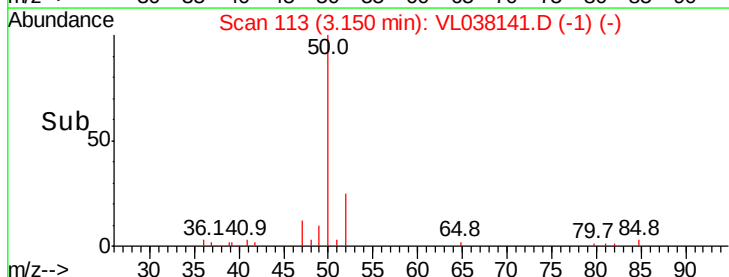
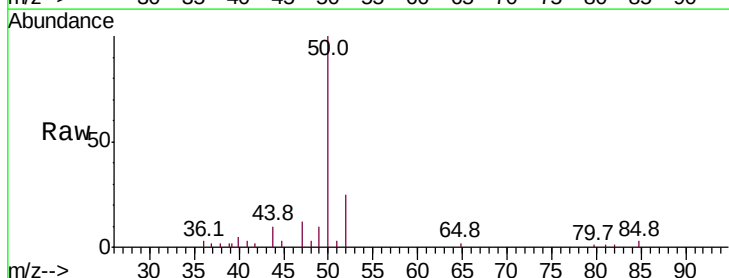
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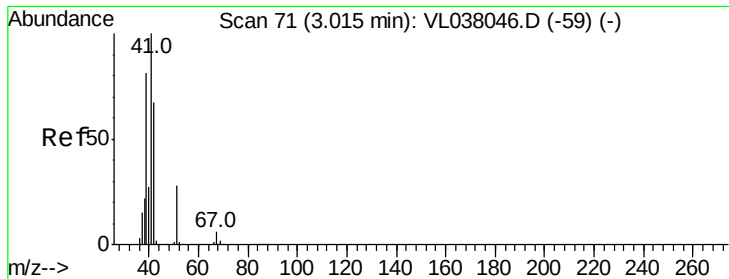
Tgt Ion: 50 Resp: 27777

Ion Ratio Lower Upper

50 100

52 23.5 25.4 38.0#



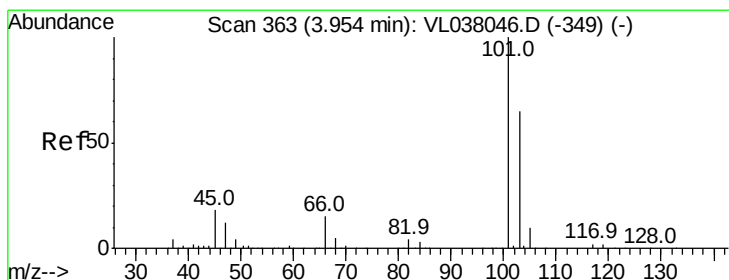
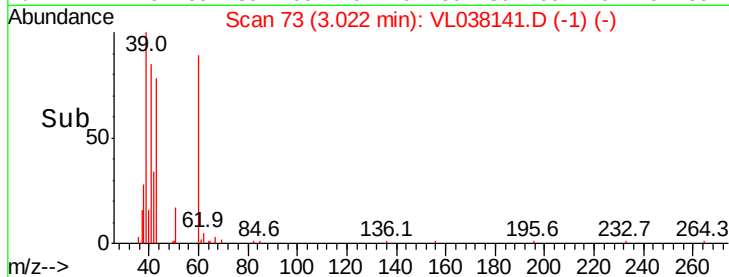
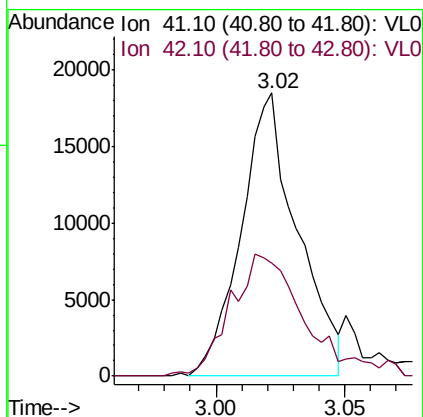
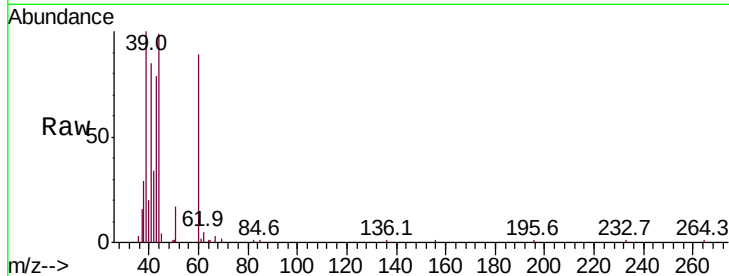


#9  
 Propene  
 Concen: 0.563 ppbv  
 RT: 3.02  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 29 Nov 2021 18:54

Tot Ion:  
 Ion Ratio  
 41 100  
 42 57.

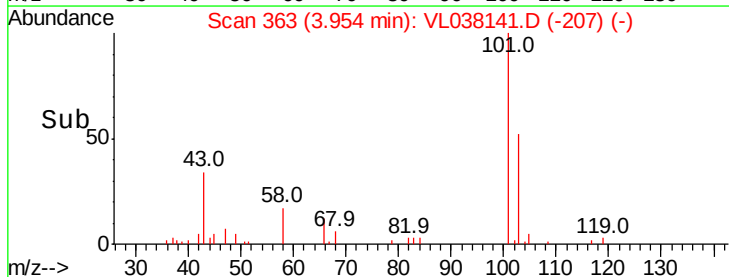
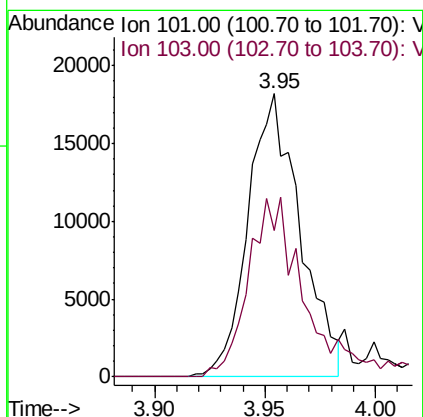
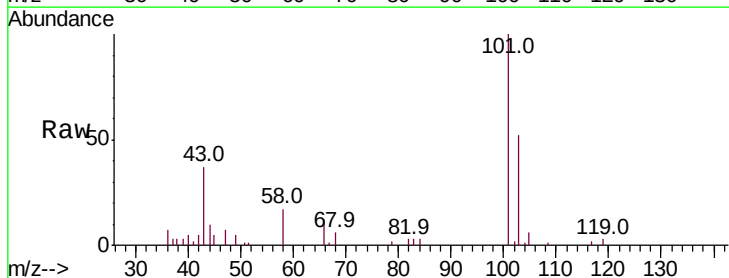
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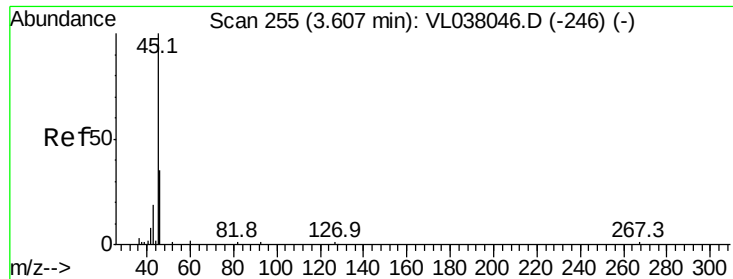
Reviewed By :Semsettin Yesilyurt 11/30/2021  
 Supervised By :Mahesh Dadoda 12/01/2021



#11  
 Trichlorofluoromethane  
 Concen: 0.292 ppbv  
 RT: 3.95 min Scan# 363  
 Delta R.T. 0.00 min  
 Lab File: VL038141.D  
 Acq: 29 Nov 2021 18:54

Tgt Ion:101 Resp: 29768  
 Ion Ratio Lower Upper  
 101 100  
 103 51.8 51.8 77.6



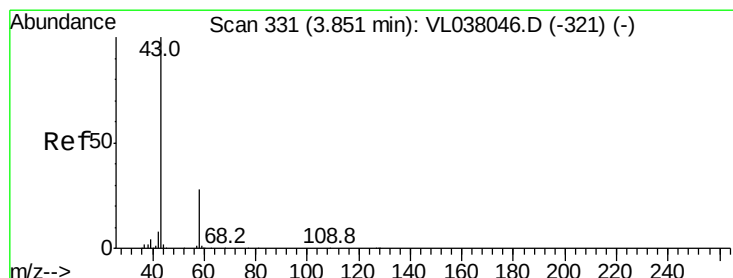
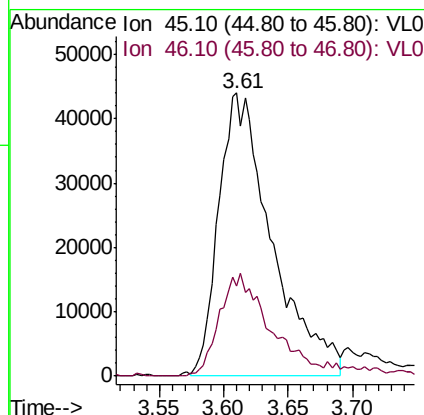
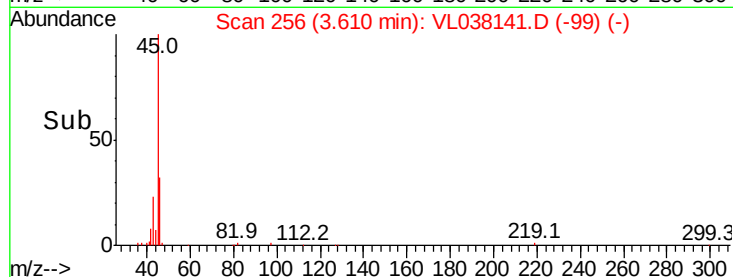
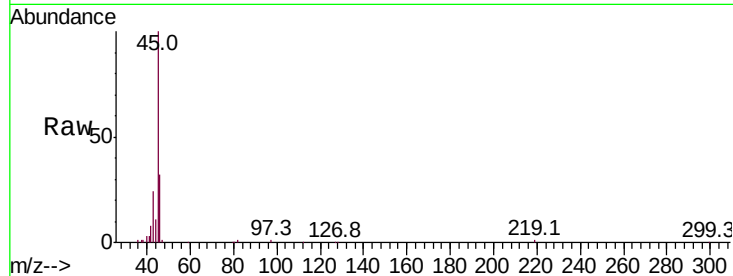


#13  
Ethanol  
Concen: 26.133 ppbv m  
RT: 3.61  
Instrument : MSVOA\_1  
Delta R.T. :  
Lab File: ClientSampleId :  
Acq: 29 Nov 2021 18:54

Tot Ion:  
Ion Rati  
45 100  
46 0.

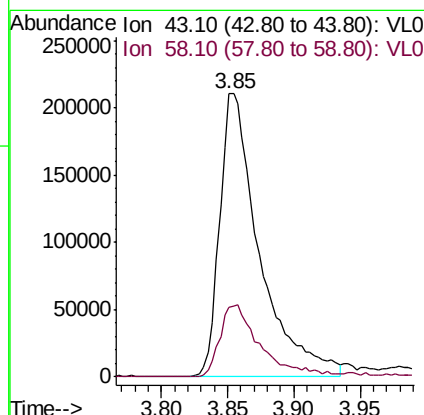
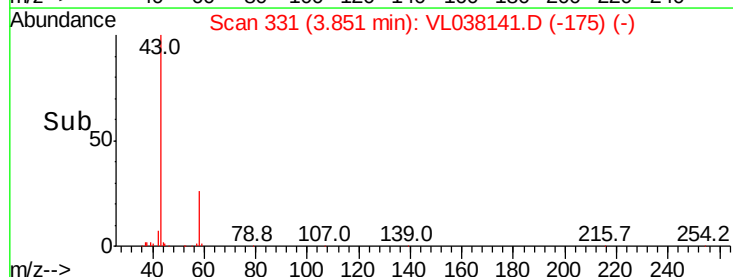
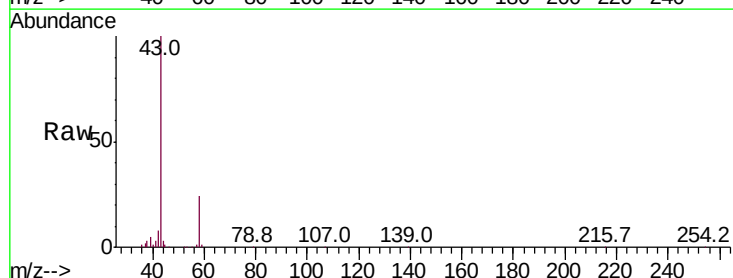
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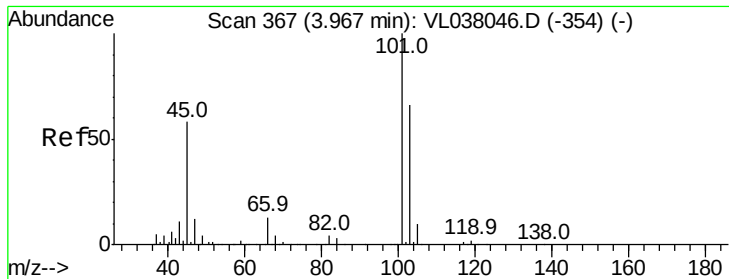
Reviewed By :Semsettin Yesilyurt 11/30/2021  
Supervised By :Mahesh Dadoda 12/01/2021



#15  
Acetone  
Concen: 7.817 ppbv  
RT: 3.85 min Scan# 331  
Delta R.T. 0.00 min  
Lab File: VL038141.D  
Acq: 29 Nov 2021 18:54

Tgt Ion: 43 Resp: 439883  
Ion Ratio Lower Upper  
43 100  
58 26.8 22.4 33.6





#19

Isopropyl Alcohol

Concen: 0.775 ppbv m

RT: 3.99 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 18:54

Tot Ion:

Ion Ratio

45 100

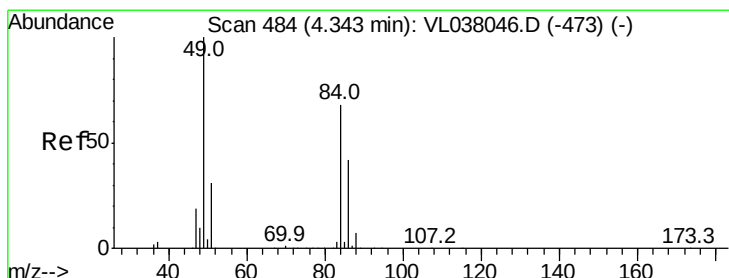
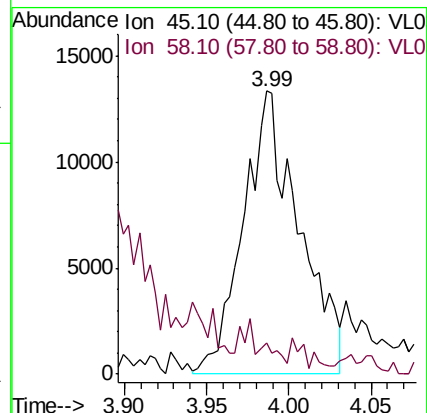
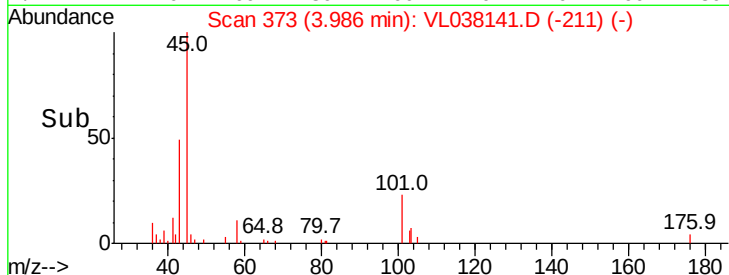
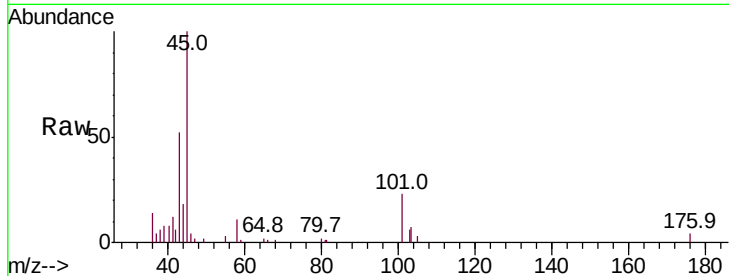
58 16.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#20

Methylene Chloride

Concen: 32.283 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL038141.D

Acq: 29 Nov 2021 18:54

Tgt Ion: 84 Resp: 1017579

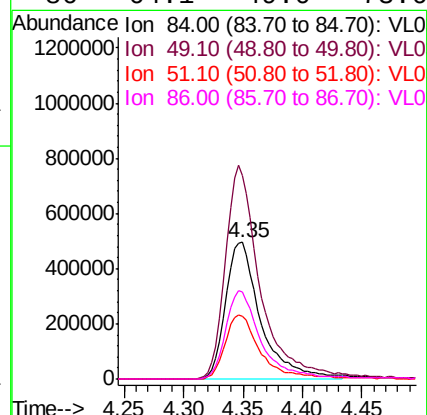
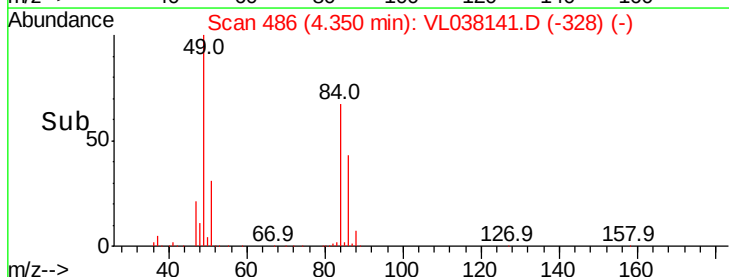
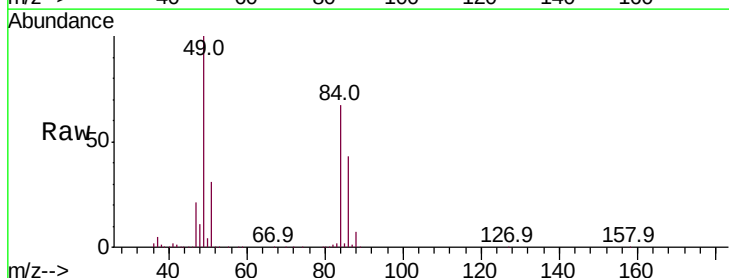
Ion Ratio Lower Upper

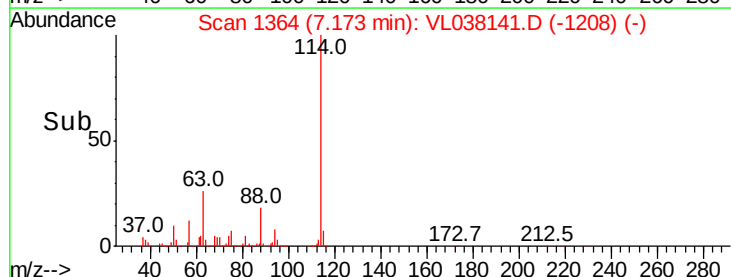
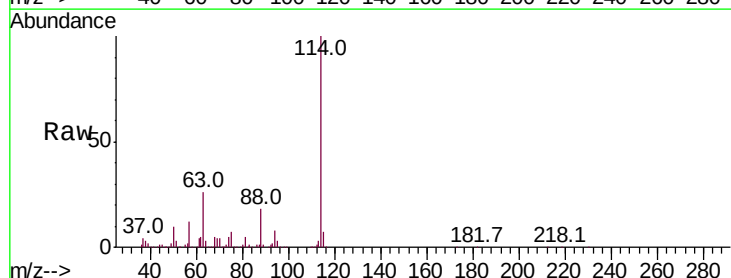
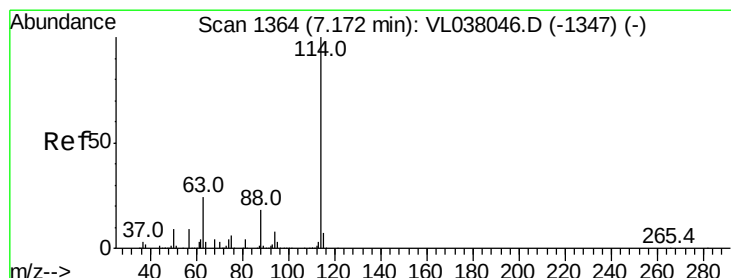
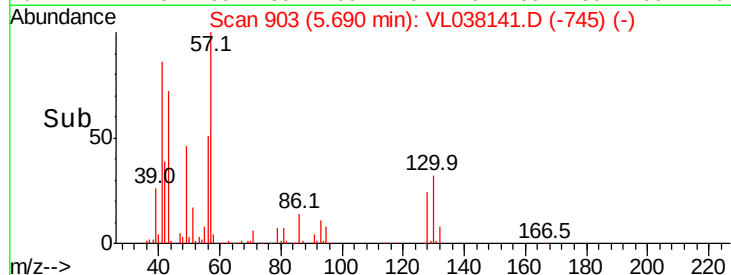
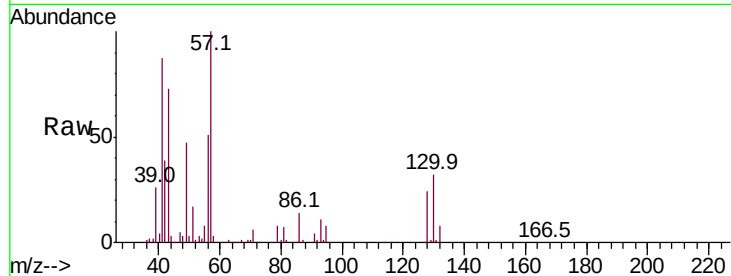
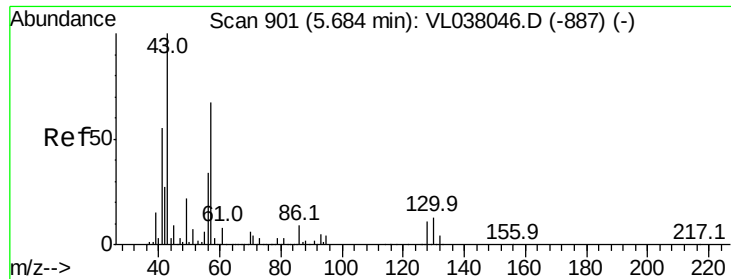
84 100

49 148.8 118.2 177.2

51 45.8 36.8 55.2

86 64.1 49.0 73.6





#26

Hexane

Concen: 4.282 ppbv

RT: 5.69

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 18:54

Tot Ion:

Ion Ratio

57 100

41 92.

43 75.

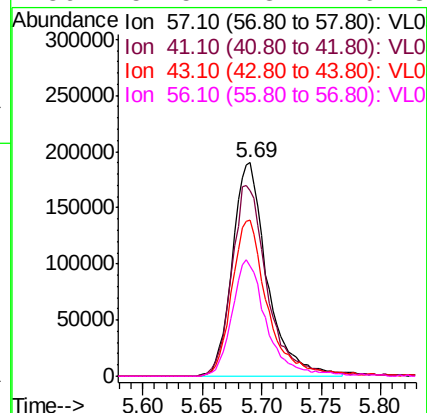
56 54.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VL038141.D

Acq: 29 Nov 2021 18:54

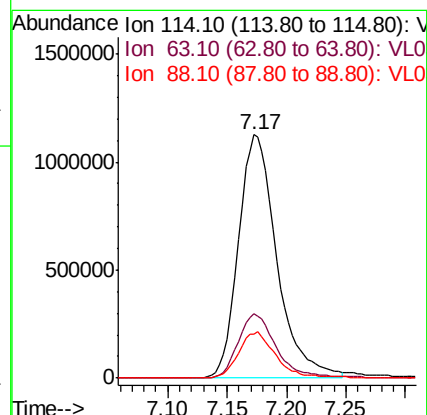
Tgt Ion:114 Resp: 2522867

Ion Ratio Lower Upper

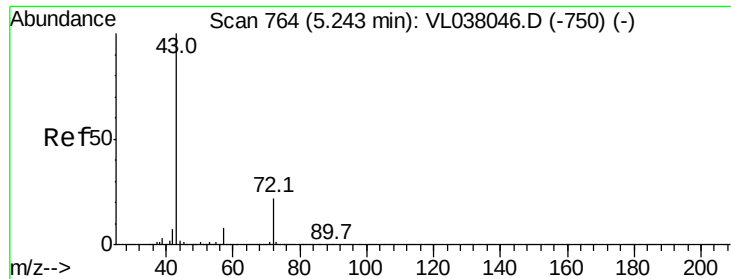
114 100

63 26.6 19.7 29.5

88 18.6 14.4 21.6







#34

2-Butanone

Concen: 0.150 ppbv m

RT: 5.25 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 29 Nov 2021 18:54

Tot Ion:

Ion Ratio

43 100

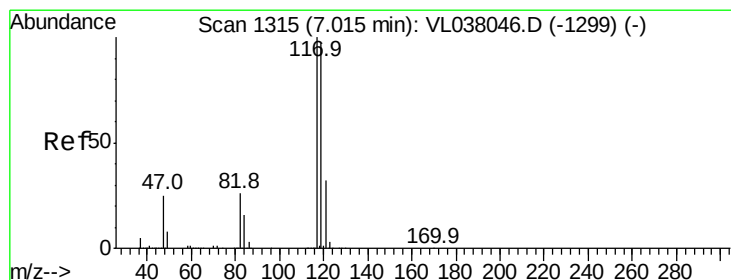
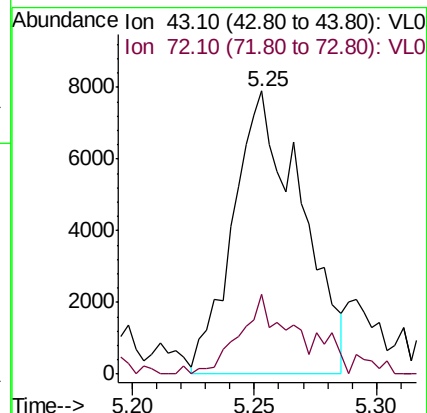
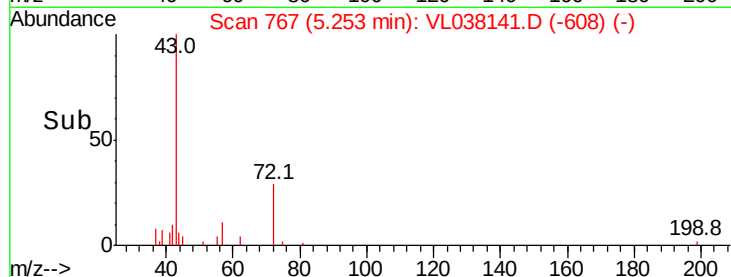
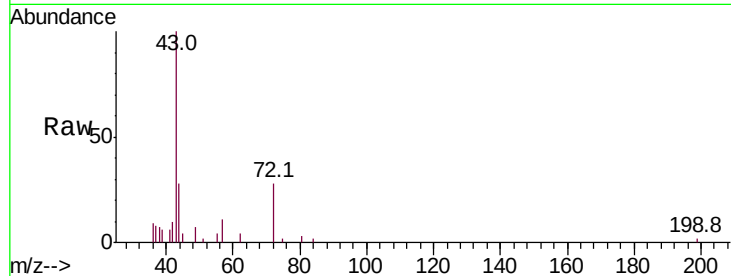
72 26.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#35

Carbon Tetrachloride

Concen: 0.053 ppbv m

RT: 7.02 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VL038141.D

Acq: 29 Nov 2021 18:54

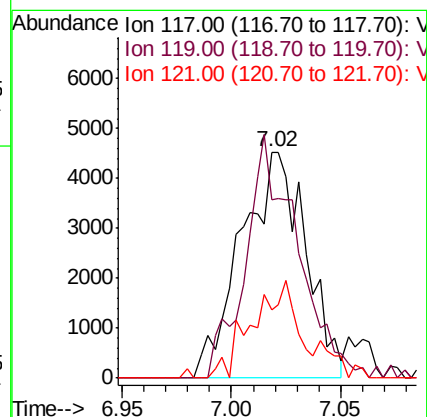
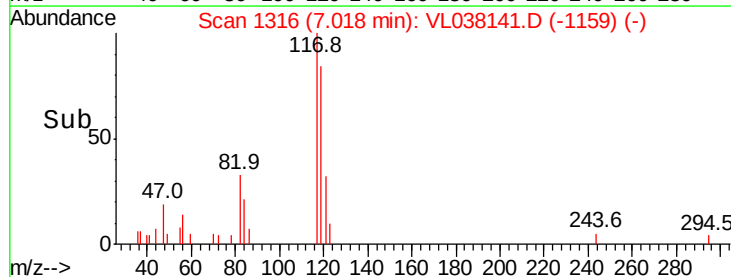
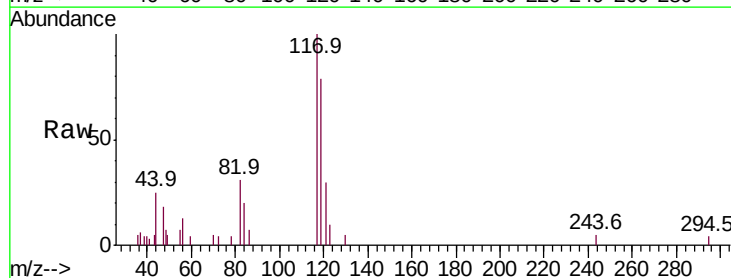
Tgt Ion:117 Resp: 9323

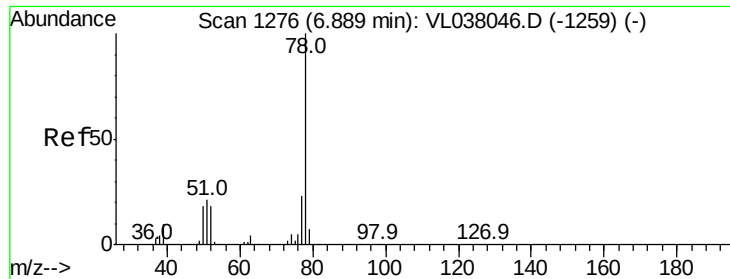
Ion Ratio Lower Upper

117 100

119 79.2 77.7 116.5

121 30.4 25.6 38.4



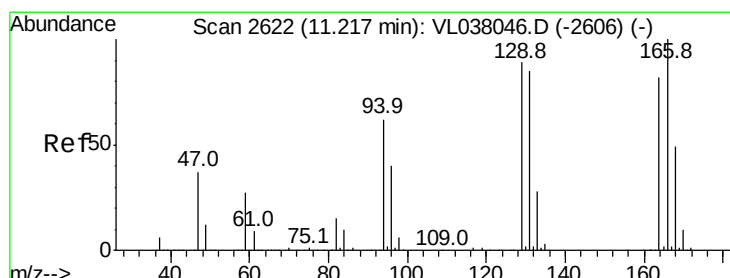
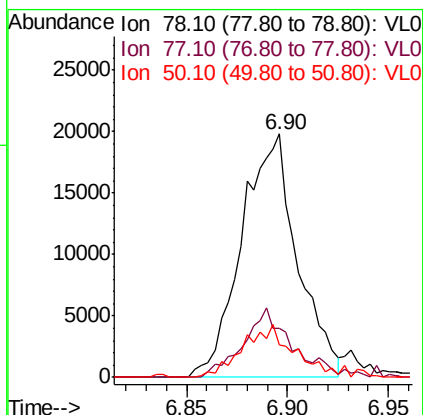
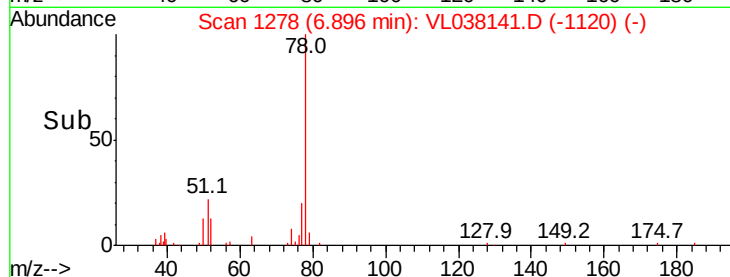
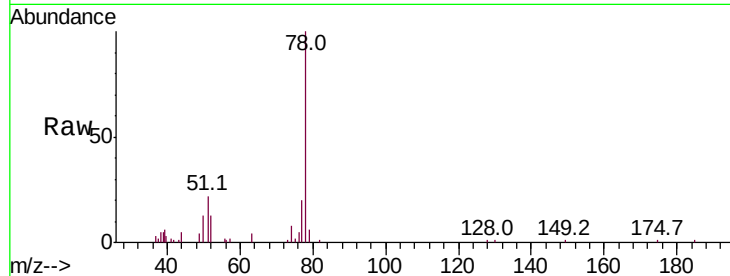


#36  
Benzene  
Concen: 0.152 ppbv  
RT: 6.90  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 29 Nov 2021 18:54

Tot Ion:  
Ion Rati  
78 100  
77 20.  
50 13.

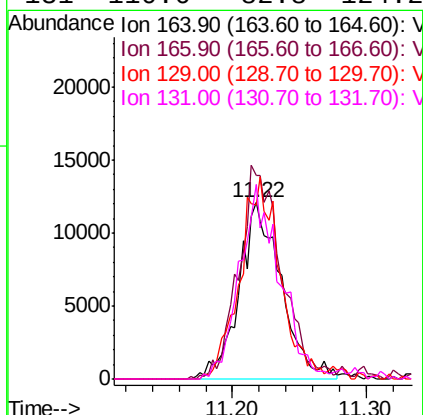
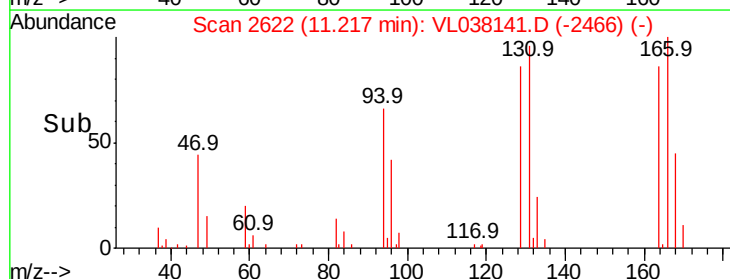
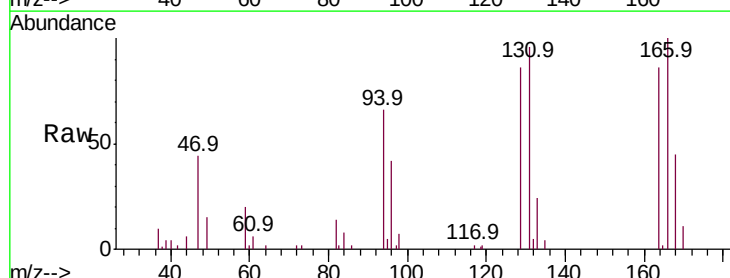
Manual Integrations  
APPROVED

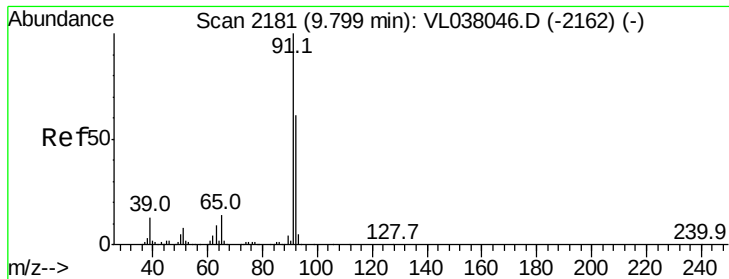
Reviewed By :Semsettin Yesilyurt 11/30/2021  
Supervised By :Mahesh Dadoda 12/01/2021



#52  
Tetrachloroethene  
Concen: 0.285 ppbv m  
RT: 11.22 min Scan# 2622  
Delta R.T. 0.00 min  
Lab File: VL038141.D  
Acq: 29 Nov 2021 18:54

Tgt Ion:164 Resp: 26515  
Ion Ratio Lower Upper  
164 100  
166 115.7 97.2 145.8  
129 99.0 86.9 130.3  
131 110.6 82.8 124.2



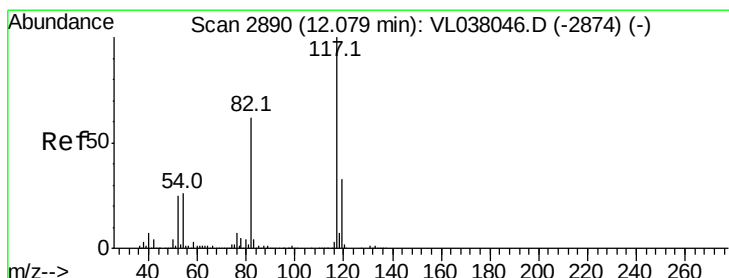
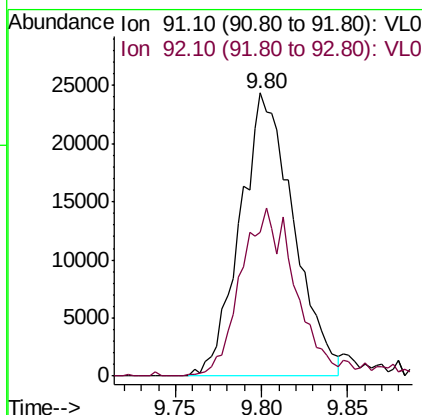
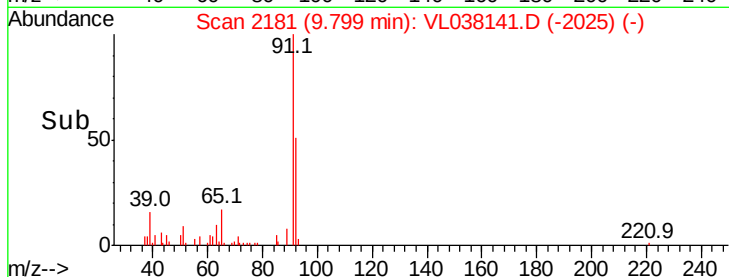
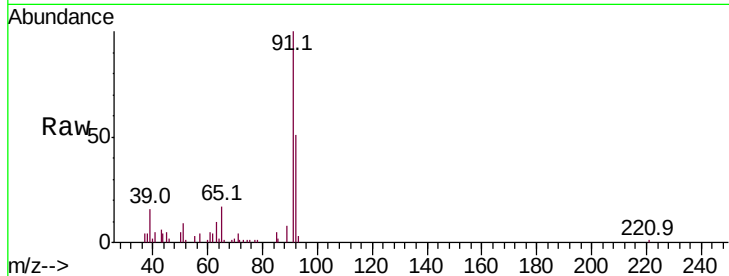


#53  
Toluene  
Concen: 0.182 ppbv  
RT: 9.80  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampled:  
Acq: 29 Nov 2021 18:54

Tot Ion:  
Ion Ratio  
91 100  
92 64.

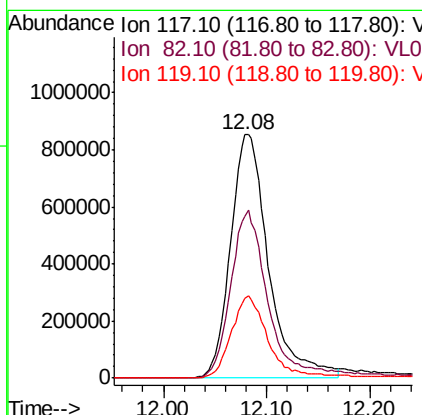
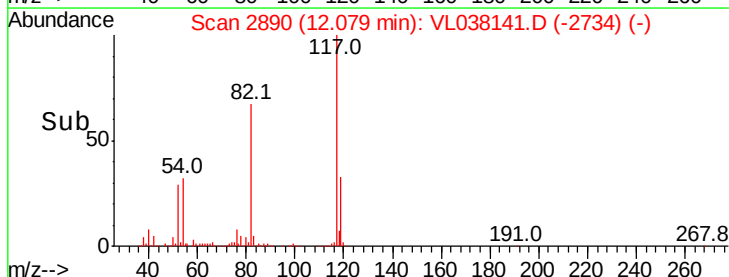
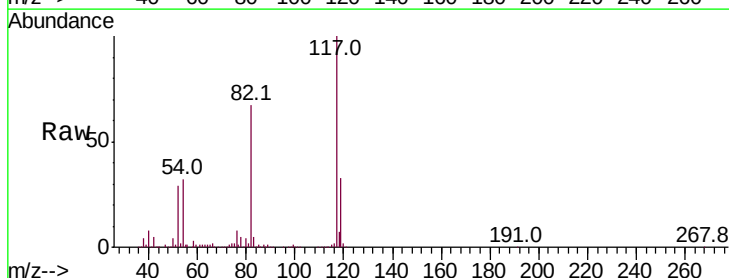
Manual Integrations  
APPROVED

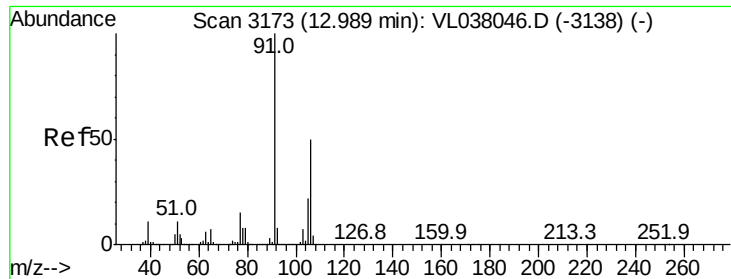
Reviewed By :Semsettin Yesilyurt 11/30/2021  
Supervised By :Mahesh Dadoda 12/01/2021



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.08 min Scan# 2890  
Delta R.T.: 0.00 min  
Lab File: VL038141.D  
Acq: 29 Nov 2021 18:54

Tgt Ion:117 Resp: 2197810  
Ion Ratio Lower Upper  
117 100  
82 69.1 52.8 79.2  
119 33.2 26.8 40.2



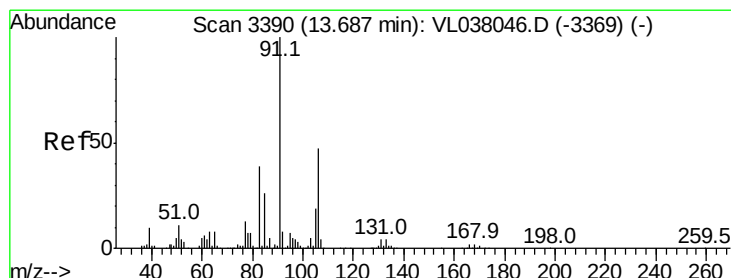
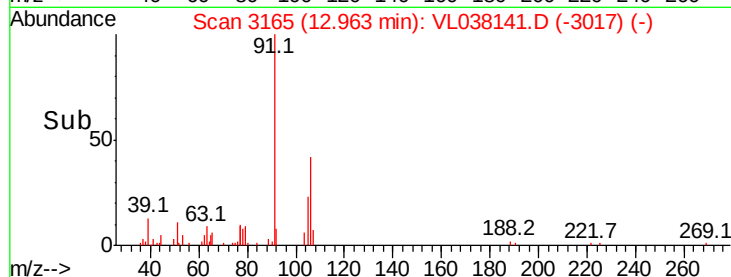
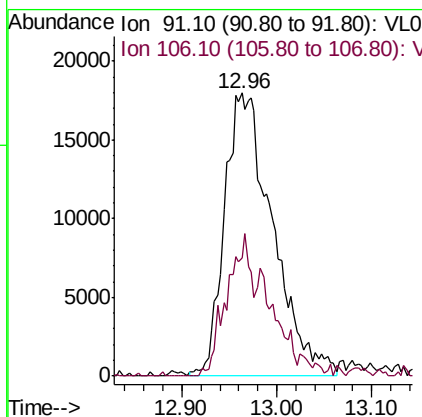
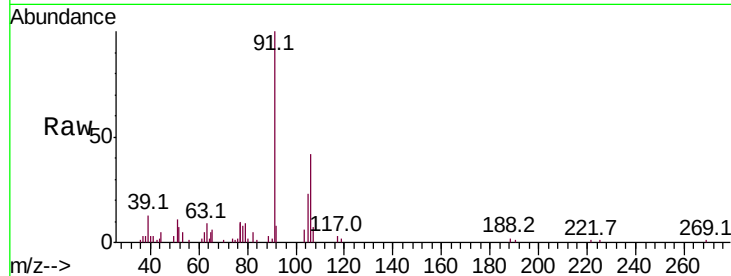


#59  
m/p-Xylene  
Concen: 0.208 ppbv m  
RT: 12.96  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 29 Nov 2021 18:54

Tot Ion:  
Ion Ratio  
91 100  
106 0.

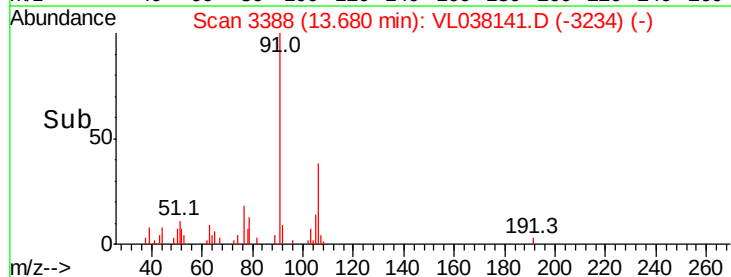
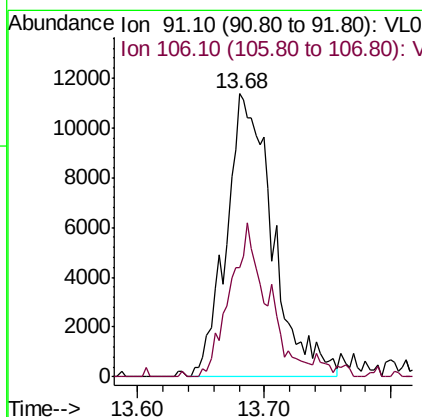
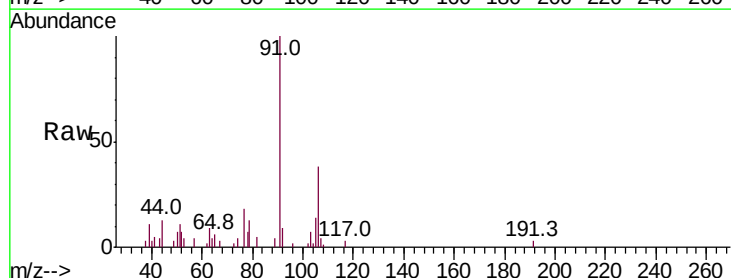
Manual Integrations  
APPROVED

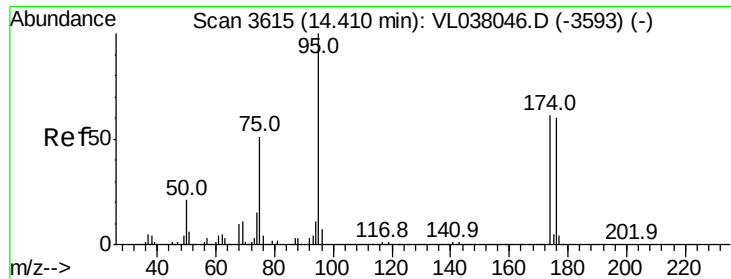
Reviewed By :Semsettin Yesilyurt 11/30/2021  
Supervised By :Mahesh Dadoda 12/01/2021



#60  
o-Xylene  
Concen: 0.102 ppbv m  
RT: 13.68 min Scan# 3388  
Delta R.T. -0.01 min  
Lab File: VL038141.D  
Acq: 29 Nov 2021 18:54

Tgt Ion: 91 Resp: 28986  
Ion Ratio Lower Upper  
91 100  
106 47.8 24.2 72.6





#68

1-Bromo-4-Fluorobenzene

Concen: 11.105 ppbv

RT: 14.41

Delta R.T: MSVOA\_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 18:34

Tot Ion:

Ion Ratio

95 100

174 62.

175 4.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021

