

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090722\  
 Data File : VL039619.D  
 Acq On : 7 Sep 2022 14:53  
 Operator : SY/AP  
 Sample : N4494-03  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 OA-1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/08/2022  
 Supervised By :Mahesh Dadoda 09/08/2022

Quant Time: Sep 08 05:47:33 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081722A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Fri Aug 26 06:05:16 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.21  | 49   | 936487   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.66  | 114  | 2421635  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.47 | 117  | 2110387  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 13.78  | 95    | 1599426  | 10.05    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.50% |

## Target Compounds

|                                |       |     |         |        |        | Ovalue |
|--------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.75  | 85  | 26809   | 0.215  | ppbv # | 79     |
| 3) Chlorodifluoromethane       | 2.70  | 51  | 42576   | 0.382  | ppbv # | 90     |
| 4) Chloromethane               | 2.84  | 50  | 28864   | 0.429  | ppbv   | 89     |
| 9) Propene                     | 2.73  | 41  | 32314m  | 0.633  | ppbv   |        |
| 11) Trichlorofluoromethane     | 3.59  | 101 | 30534m  | 0.223  | ppbv   |        |
| 12) 1,1,2-Trichlorotrifluoroet | 4.09  | 101 | 6399    | 0.063  | ppbv   | 86     |
| 13) Ethanol                    | 3.26  | 45  | 99570   | 27.137 | ppbv   | 76     |
| 15) Acetone                    | 3.49  | 43  | 440015  | 4.195  | ppbv   | 100    |
| 19) Isopropyl Alcohol          | 3.60  | 45  | 144797m | 2.837  | ppbv   |        |
| 20) Methylene Chloride         | 3.95  | 84  | 70690   | 1.659  | ppbv   | 98     |
| 23) Vinyl Acetate              | 4.63  | 43  | 34151   | 0.685  | ppbv # | 61     |
| 25) Ethyl Acetate              | 5.22  | 43  | 63247m  | 0.282  | ppbv   |        |
| 34) 2-Butanone                 | 4.81  | 43  | 53986   | 0.448  | ppbv   | 99     |
| 36) Benzene                    | 6.38  | 78  | 42901m  | 0.232  | ppbv   |        |
| 44) 2,2,4-Trimethylpentane     | 7.34  | 57  | 65548m  | 0.211  | ppbv   |        |
| 53) Toluene                    | 9.23  | 91  | 255590  | 1.237  | ppbv   | 99     |
| 58) Ethyl Benzene              | 12.09 | 91  | 45521m  | 0.188  | ppbv   |        |
| 59) m/p-Xylene                 | 12.35 | 91  | 127522m | 0.586  | ppbv   |        |
| 60) o-Xylene                   | 13.07 | 91  | 44843m  | 0.215  | ppbv   |        |

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

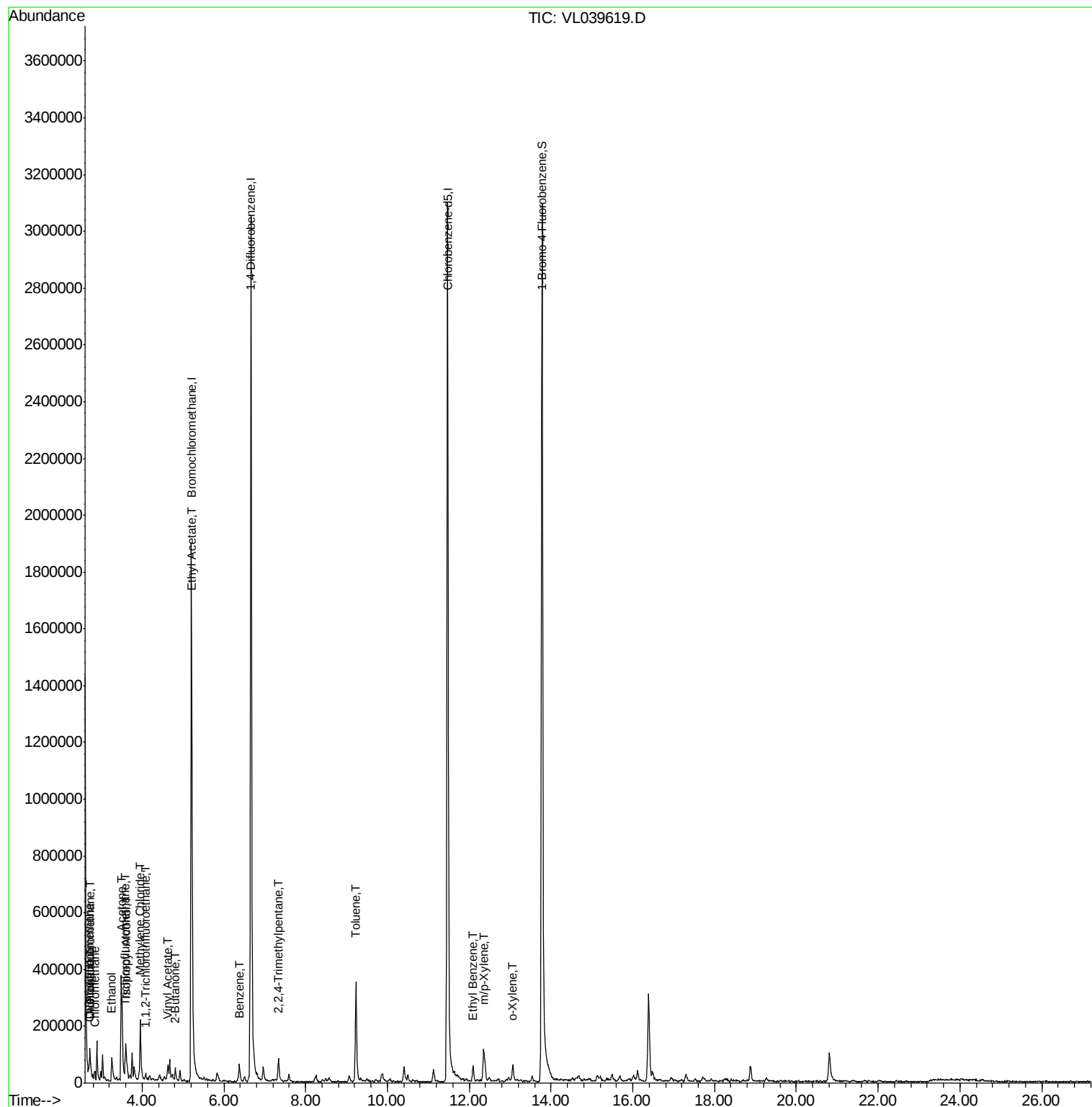
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090722\  
Data File : VL039619.D  
Acq On : 7 Sep 2022 14:53  
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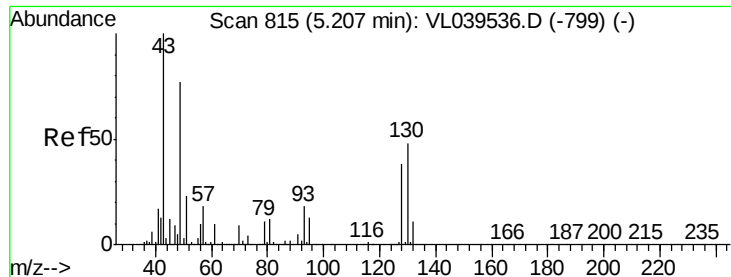
Instrument :  
MSVOA\_L  
ClientSampleId :  
OA-1

Manual Integrations  
APPROVED

Quant Time: Sep 08 05:47:33 2022  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081722  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
QLast Update : Fri Aug 26 06:05:16 2022  
Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 09/08/2022  
Supervised By :Mahesh Dadoda 09/08/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.21 Instrument :

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 7 Sep 2022 14:55

Tot Ion:

Ion Ratio

49 100

128 50.

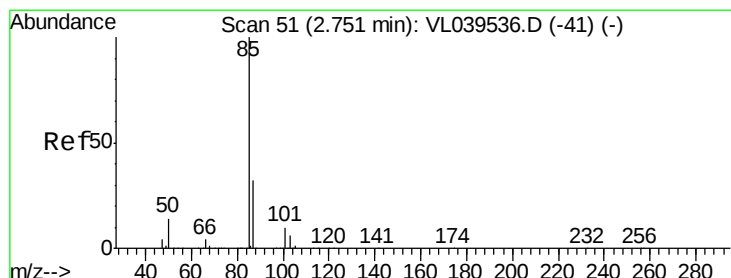
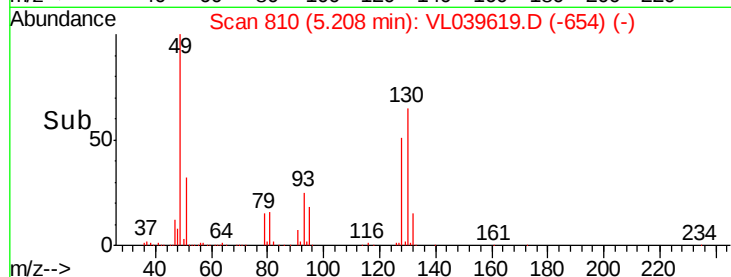
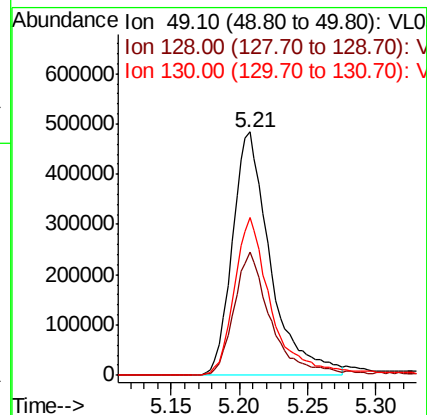
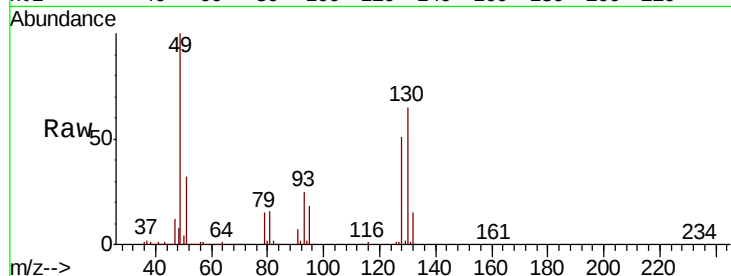
130 64.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#2

Dichlorodifluoromethane

Concen: 0.215 ppbv

RT: 2.75 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL039619.D

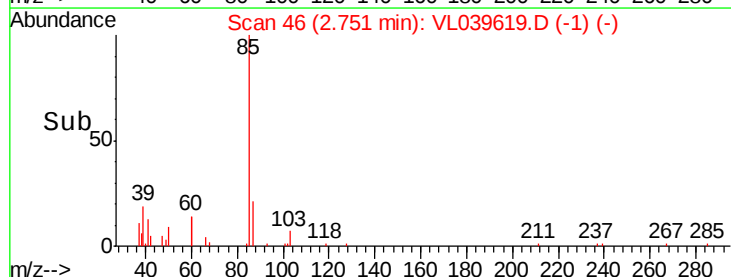
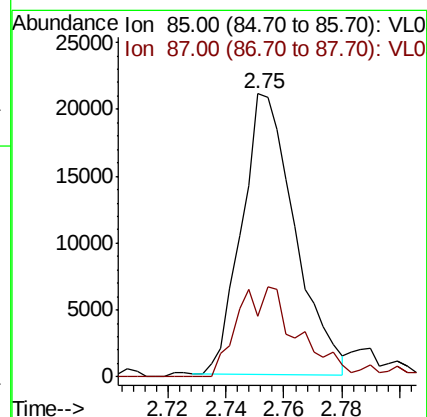
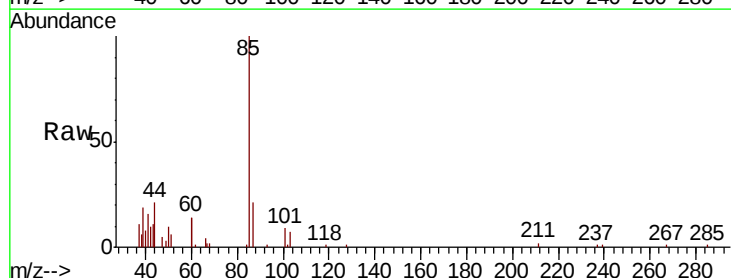
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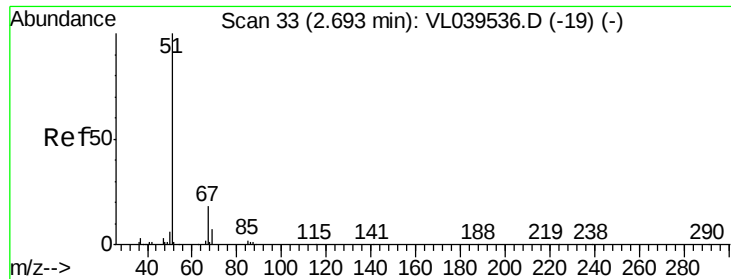
Tgt Ion: 85 Resp: 26809

Ion Ratio Lower Upper

85 100

87 21.6 26.7 40.1#





#3

Chlorodifluoromethane

Concen: 0.382 ppbv

RT: 2.70 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 7 Sep 2022 14:55

Tot Ion:

Ion Ratio

51 100

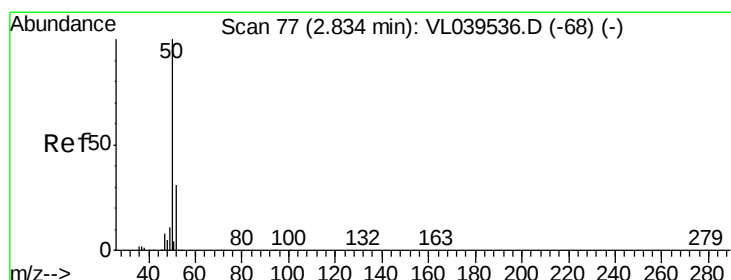
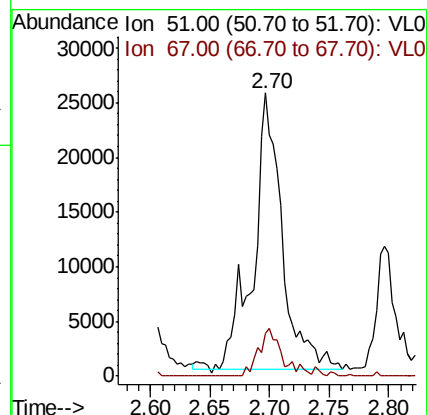
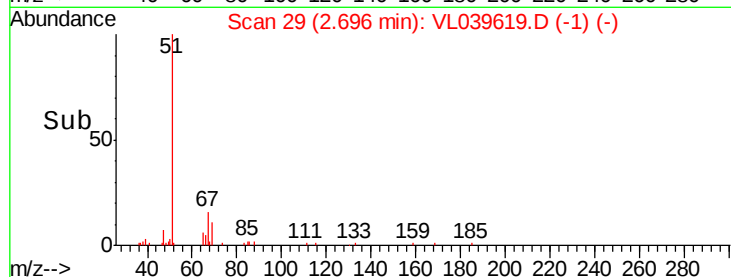
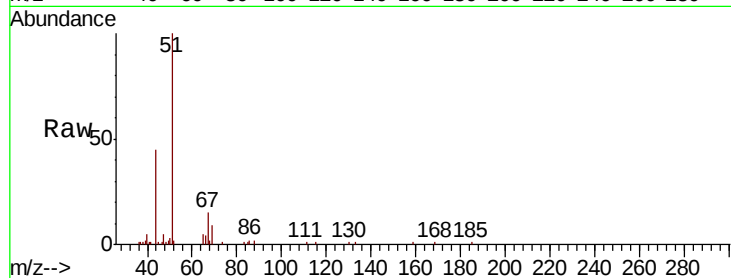
67 14.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#4

Chloromethane

Concen: 0.429 ppbv

RT: 2.84 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL039619.D

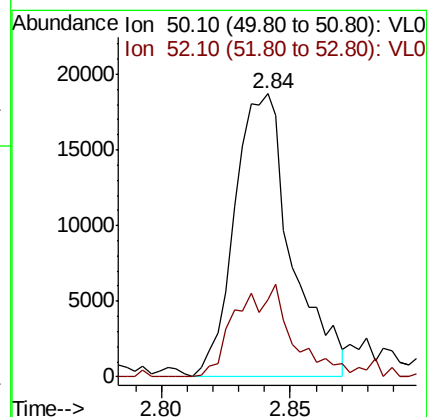
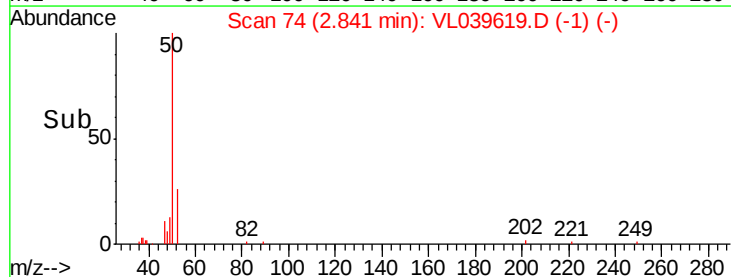
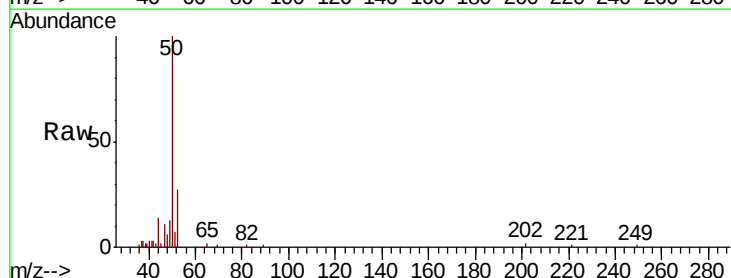
Acq: 7 Sep 2022 14:53

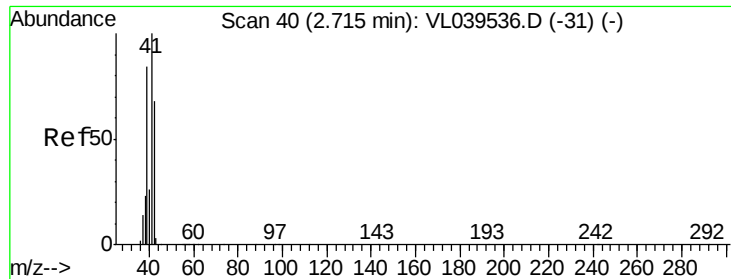
Tgt Ion: 50 Resp: 28864

Ion Ratio Lower Upper

50 100

52 27.1 26.5 39.7





#9

Propene

Concen: 0.633 ppbv m

RT: 2.73 Instrument :

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 7 Sep 2022 14:55

Tot Ion:

Ion Ratio

41 100

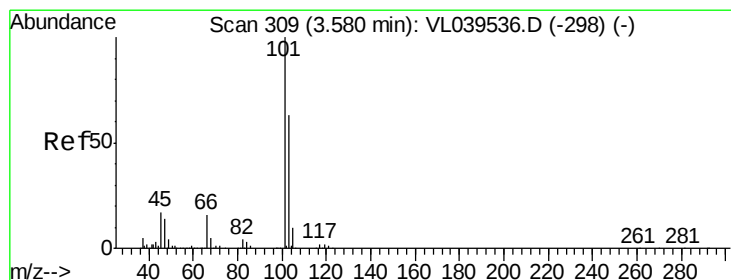
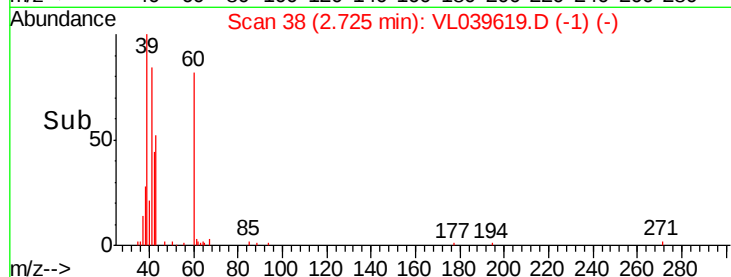
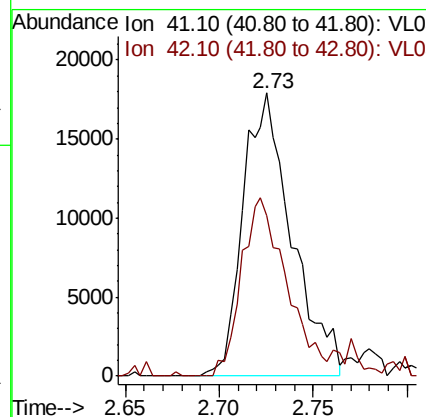
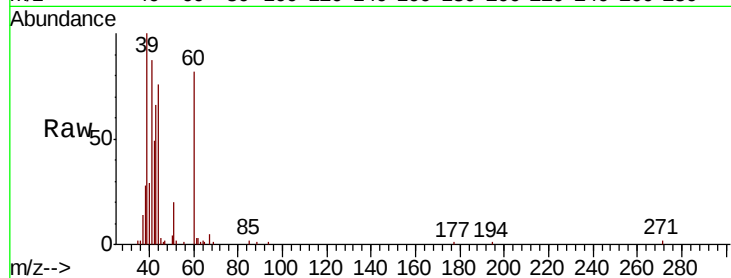
42 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#11

Trichlorofluoromethane

Concen: 0.223 ppbv m

RT: 3.59 min Scan# 306

Delta R.T. 0.01 min

Lab File: VL039619.D

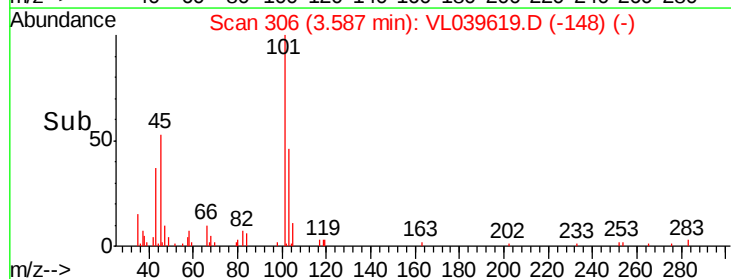
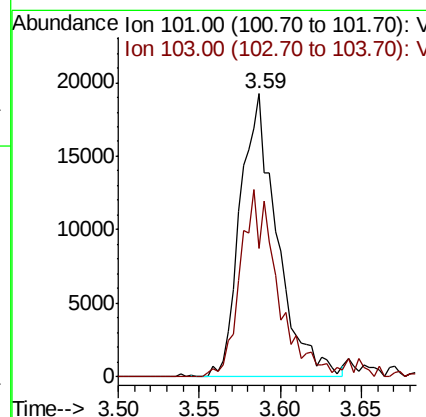
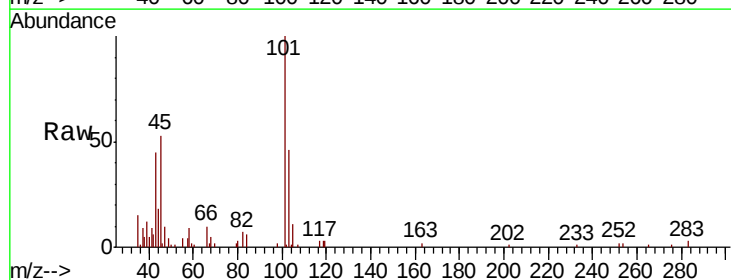
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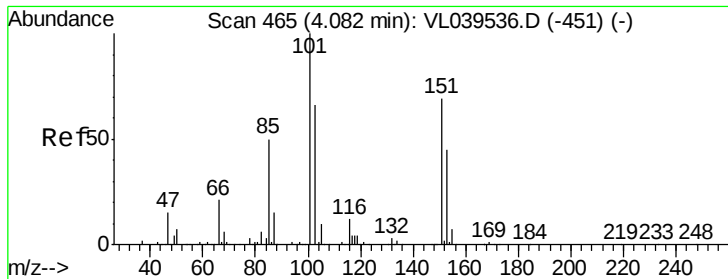
Tgt Ion:101 Resp: 30534

Ion Ratio Lower Upper

101 100

103 45.6 51.8 77.8#





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.063 ppbv

RT: 4.09 Instrument: MSVOA\_L

Delta R.T. 0.00 min

Lab File: VL039619.D

Acq: 7 Sep 2022 14:55

ClientSampleId: OA-1

Tot Ion: 1

Ion Ratio

101 100

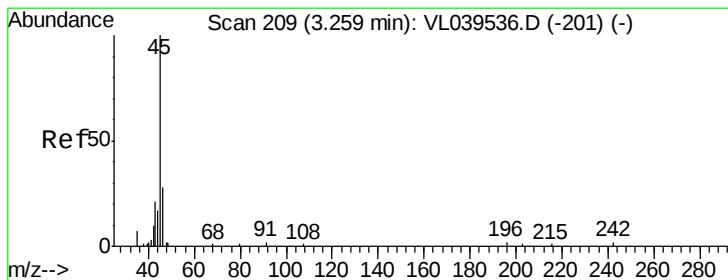
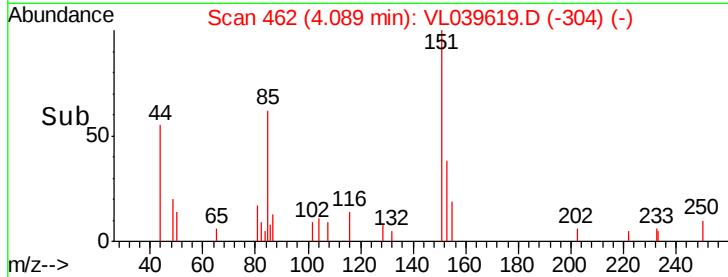
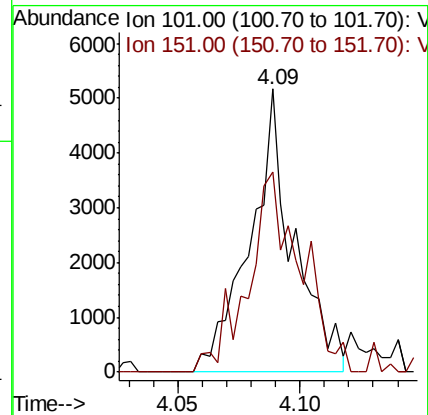
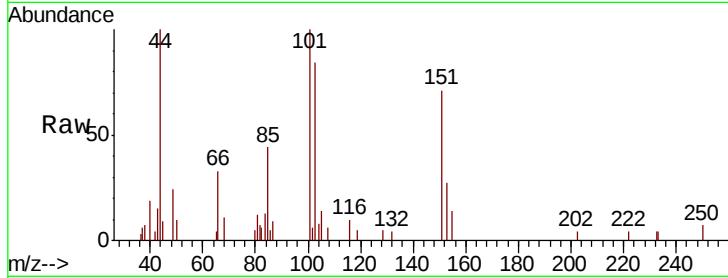
151 85.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#13

Ethanol

Concen: 27.137 ppbv

RT: 3.26 min Scan# 204

Delta R.T. 0.00 min

Lab File: VL039619.D

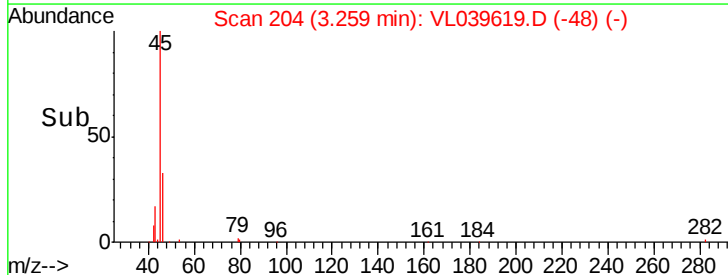
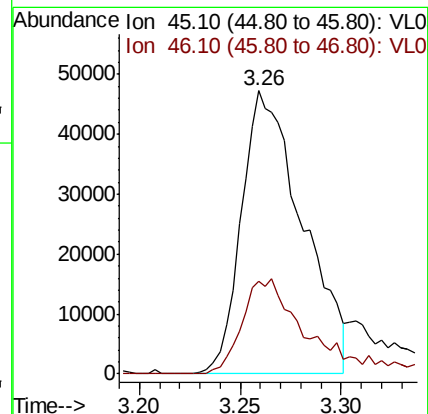
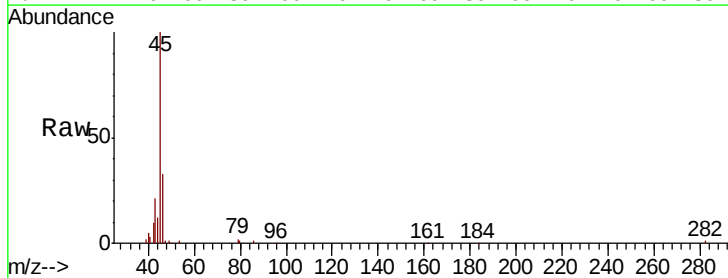
Acq: 7 Sep 2022 14:53

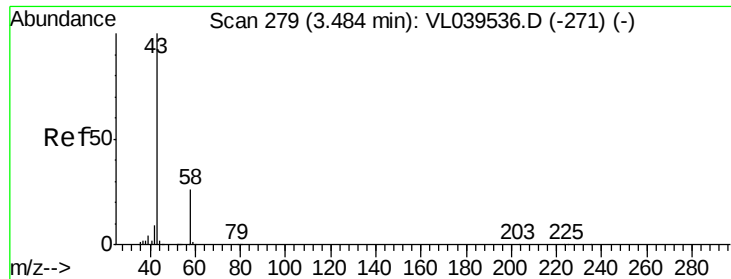
Tgt Ion: 45 Resp: 99570

Ion Ratio Lower Upper

45 100

46 39.0 22.8 91.2



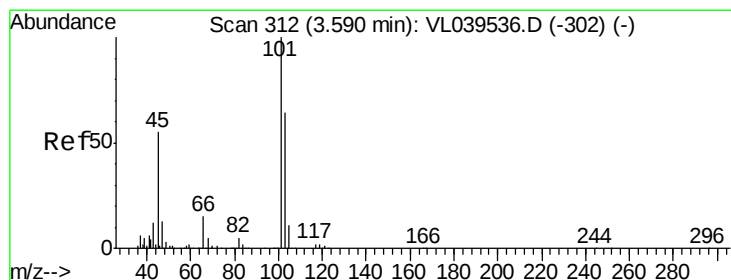
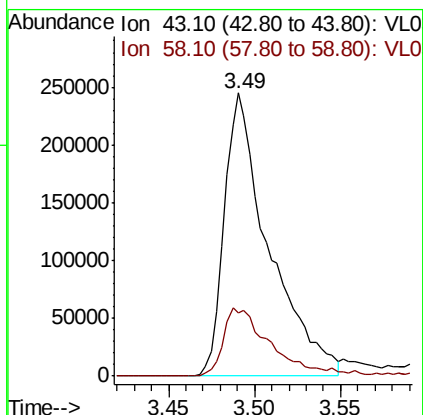
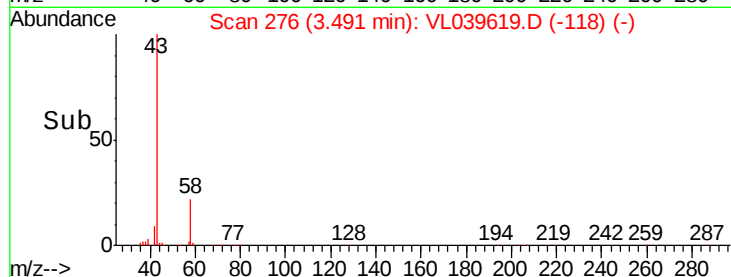
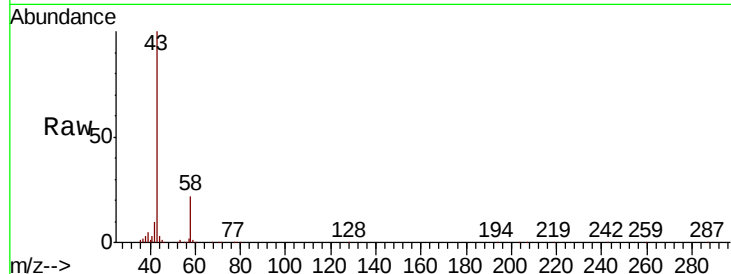


#15  
Acetone  
Concen: 4.195 ppbv  
RT: 3.49  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 7 Sep 2022 14:55

Tot Ion:  
Ion Ratio  
43 100  
58 26.

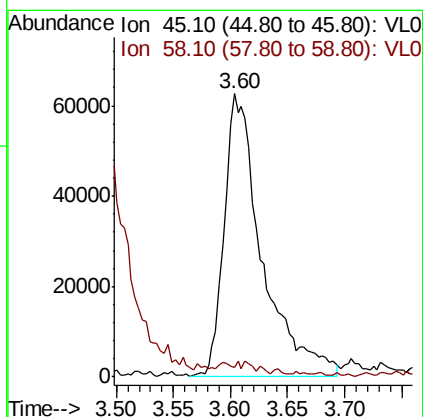
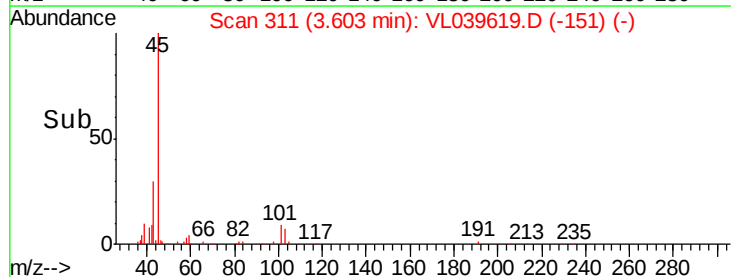
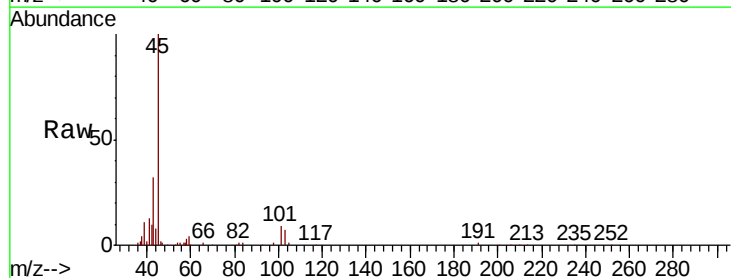
Manual Integrations  
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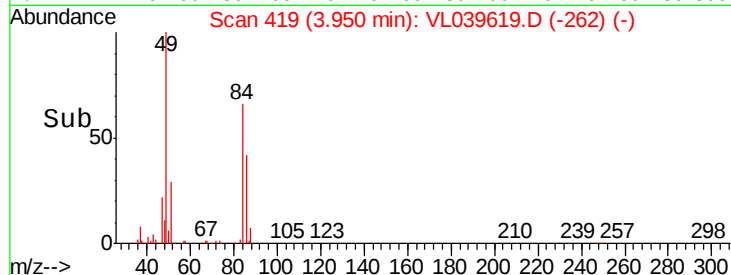
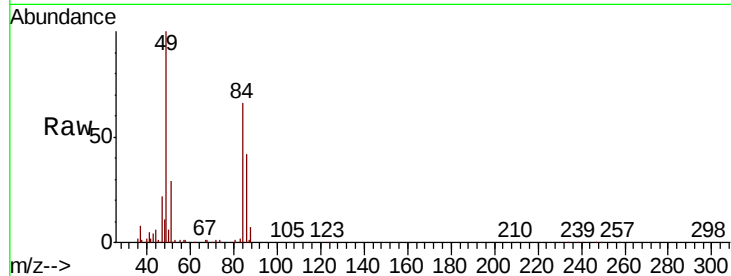
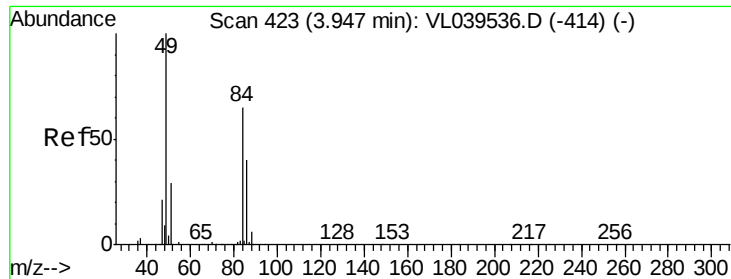
Reviewed By :Semsettin Yesilyurt 09/08/2022  
Supervised By :Mahesh Dadoda 09/08/2022



#19  
Isopropyl Alcohol  
Concen: 2.837 ppbv m  
RT: 3.60 min Scan# 311  
Delta R.T. 0.01 min  
Lab File: VL039619.D  
Acq: 7 Sep 2022 14:53

Tgt Ion: 45 Resp: 144797  
Ion Ratio Lower Upper  
45 100  
58 5.6 3.2 4.8#



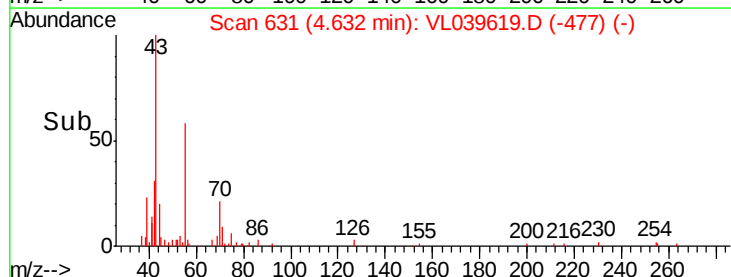
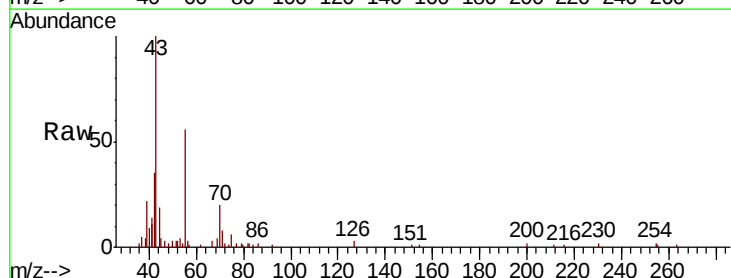
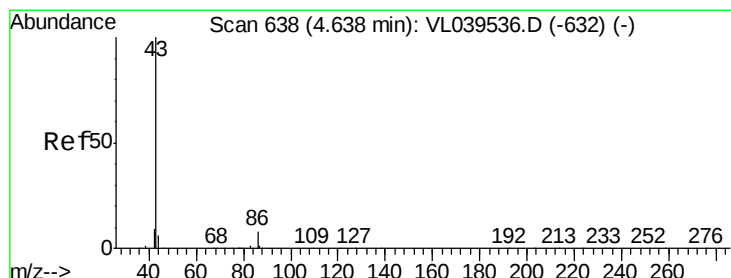
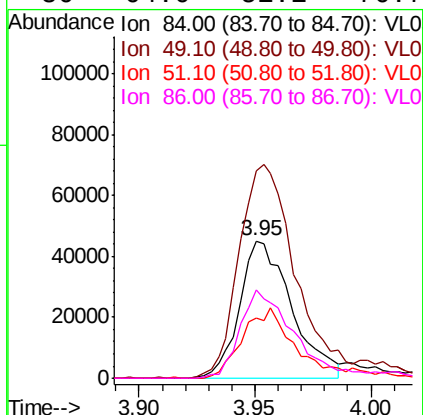


#20  
Methvlene Chloride  
Concen: 1.659 ppbv  
RT: 3.95  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 7 Sep 2022 14:55

Tot Ion:  
Ion Ratio  
84 100  
49 151.  
51 44.  
86 64.0 51.1 76.7

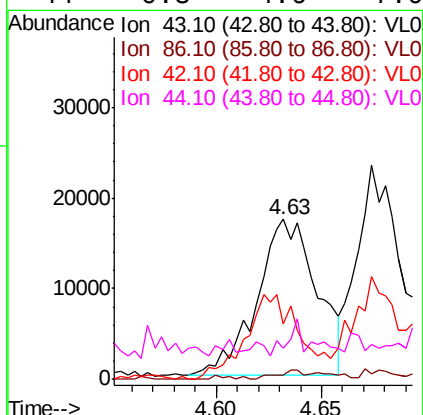
Manual Integrations  
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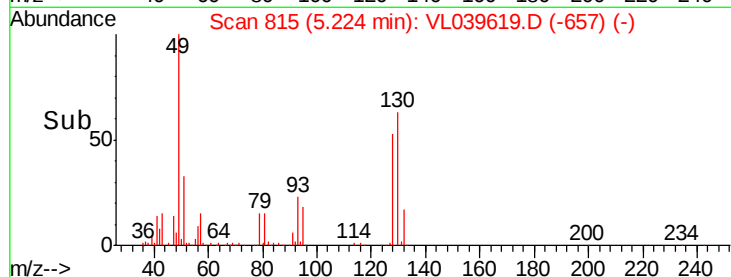
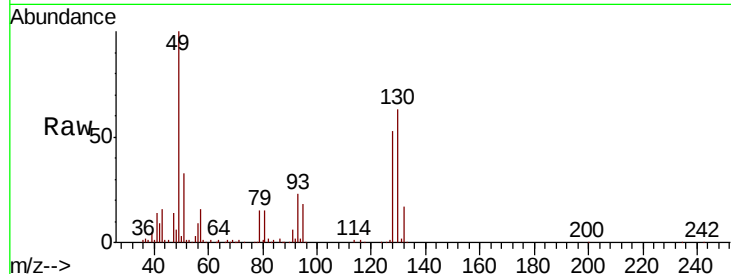
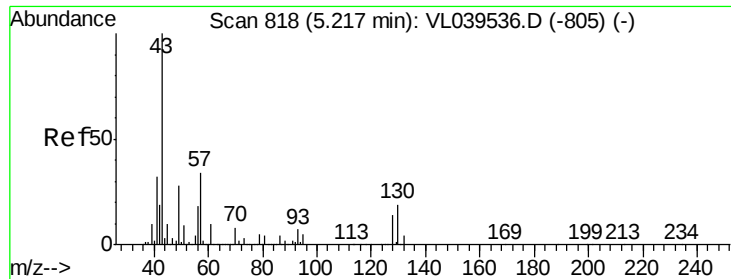
Reviewed By :Semsettin Yesilyurt 09/08/2022  
Supervised By :Mahesh Dadoda 09/08/2022



#23  
Vinyl Acetate  
Concen: 0.685 ppbv  
RT: 4.63 min Scan# 631  
Delta R.T. -0.01 min  
Lab File: VL039619.D  
Acq: 7 Sep 2022 14:53

Tgt Ion: 43 Resp: 34151  
Ion Ratio Lower Upper  
43 100  
86 2.5 5.0 7.6#  
42 35.4 7.7 11.5#  
44 0.3 4.6 7.0#



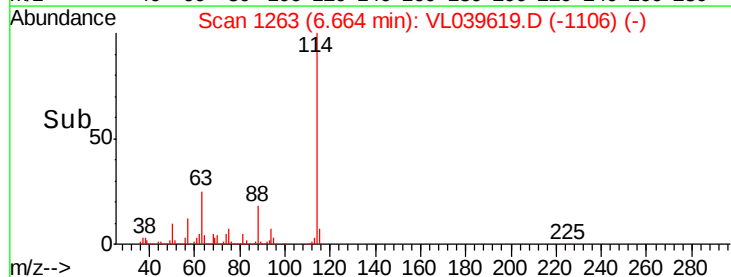
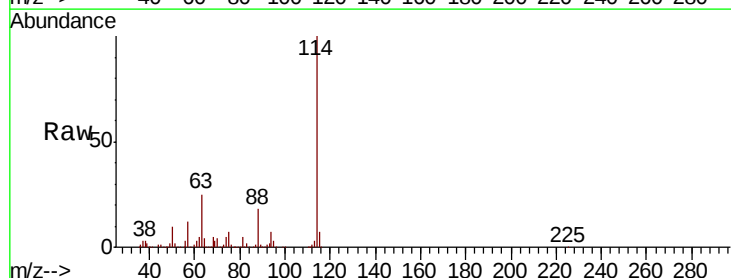
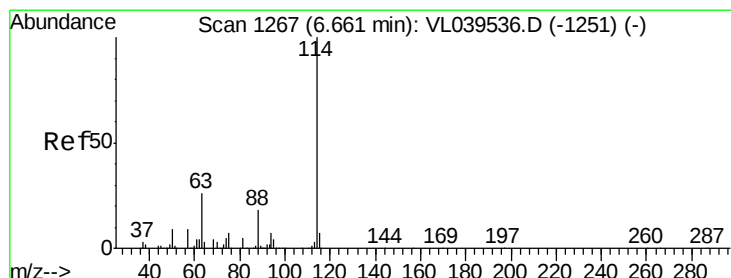
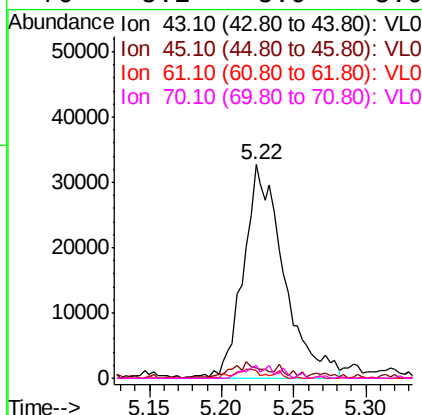


#25  
Ethyl Acetate  
Concen: 0.282 ppbv m  
RT: 5.22  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 7 Sep 2022 14:55

Tot Ion:  
Ion Ratio  
43 100  
45 7.  
61 3.  
70 5.2 5.9 8.9#

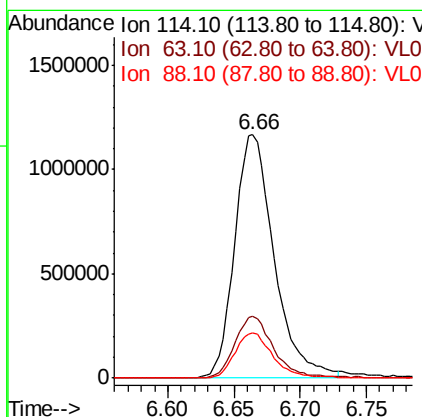
Manual Integrations  
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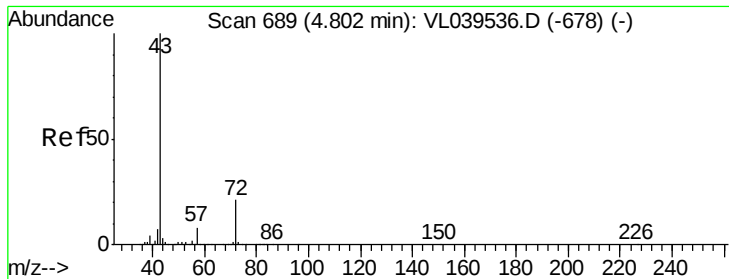
Reviewed By :Semsettin Yesilyurt 09/08/2022  
Supervised By :Mahesh Dadoda 09/08/2022



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 6.66 min Scan# 1263  
Delta R.T.: 0.00 min  
Lab File: VL039619.D  
Acq: 7 Sep 2022 14:53

Tgt Ion:114 Resp: 2421635  
Ion Ratio Lower Upper  
114 100  
63 25.1 20.2 30.4  
88 18.3 14.5 21.7



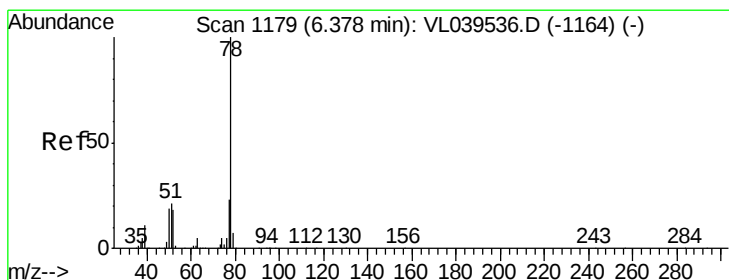
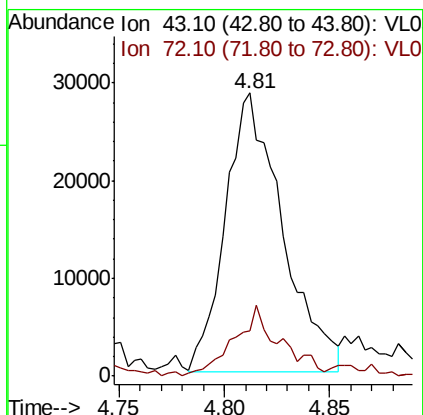
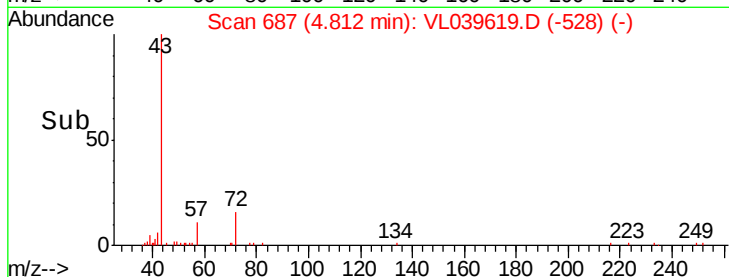
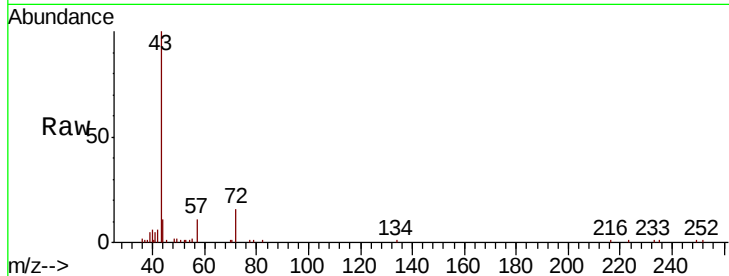


#34  
2-Butanone  
Concen: 0.448 ppbv  
RT: 4.81  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 7 Sep 2022 14:55

Tot Ion:  
Ion Ratio  
43 100  
72 23.

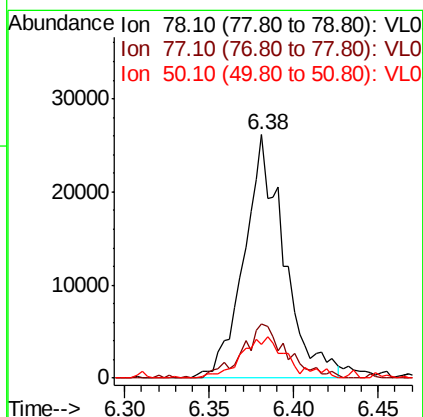
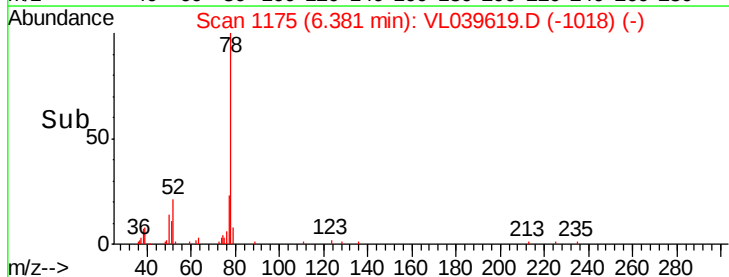
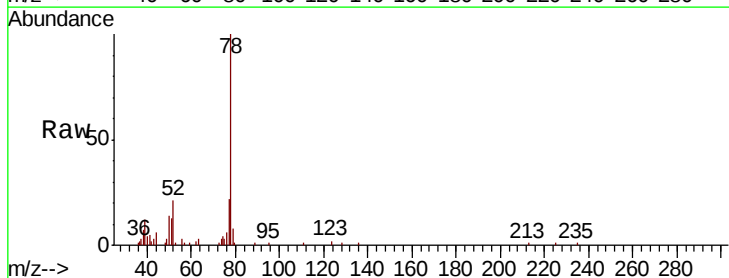
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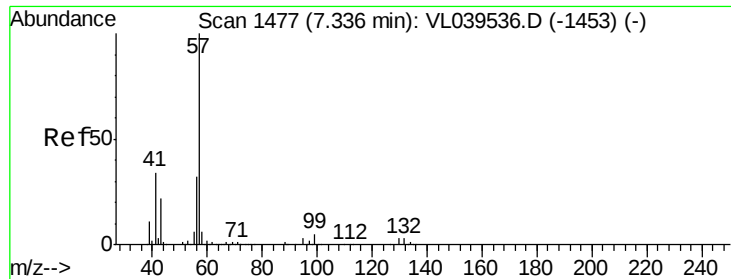
Reviewed By :Semsettin Yesilyurt 09/08/2022  
Supervised By :Mahesh Dadoda 09/08/2022



#36  
Benzene  
Concen: 0.232 ppbv m  
RT: 6.38 min Scan# 1175  
Delta R.T. 0.00 min  
Lab File: VL039619.D  
Acq: 7 Sep 2022 14:53

Tgt Ion: 78 Resp: 42901  
Ion Ratio Lower Upper  
78 100  
77 22.3 20.3 30.5  
50 14.0 15.5 23.3#



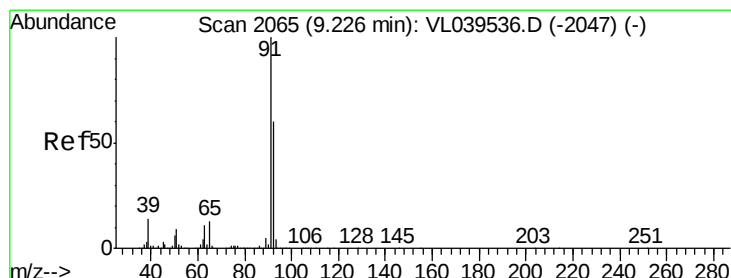
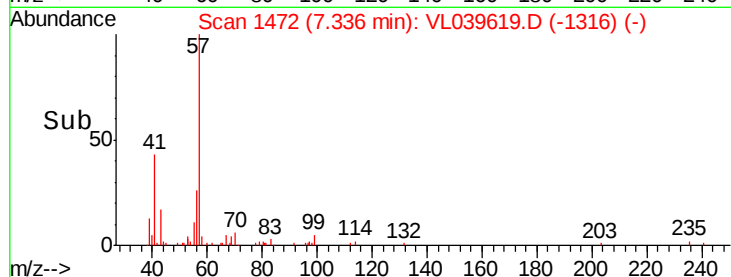
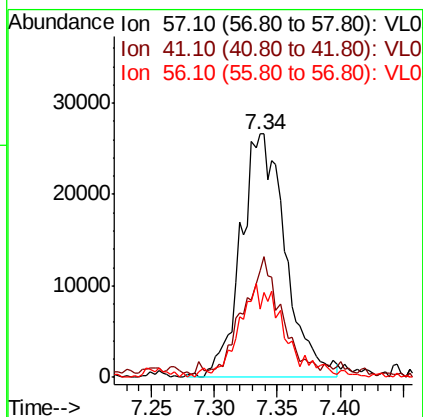
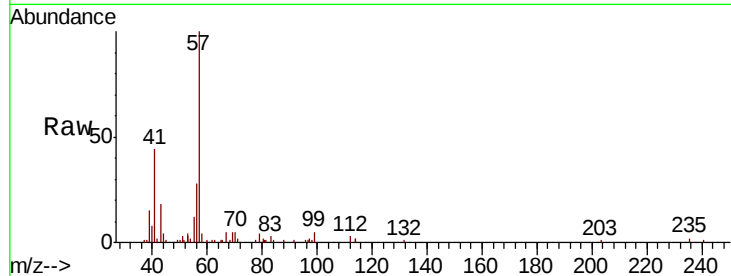


#44  
 2,2,4-Trimethylpentane  
 Concen: 0.211 ppbv m  
 RT: 7.34  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 Acq: 7 Sep 2022 14:55

Tot Ion:  
 Ion Ratio  
 57 100  
 41 49.  
 56 40.

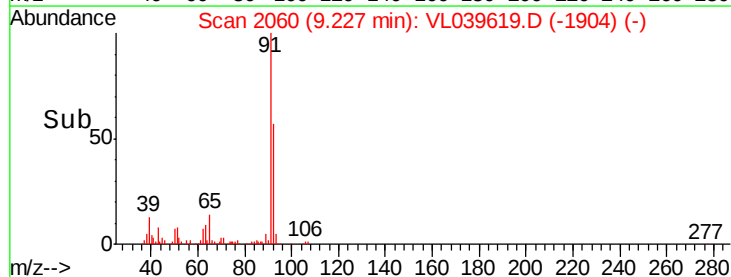
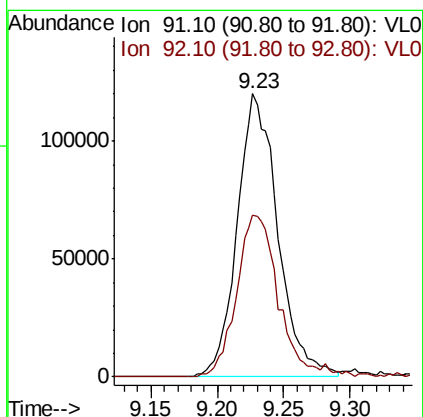
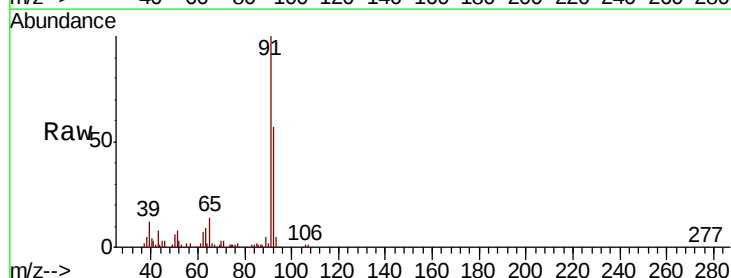
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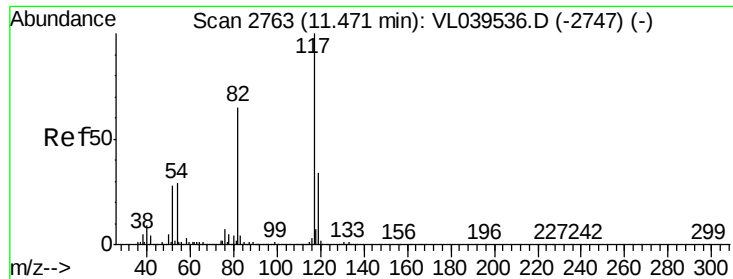
Reviewed By :Semsettin Yesilyurt 09/08/2022  
 Supervised By :Mahesh Dadoda 09/08/2022



#53  
 Toluene  
 Concen: 1.237 ppbv  
 RT: 9.23 min Scan# 2060  
 Delta R.T.: 0.00 min  
 Lab File: VL039619.D  
 Acq: 7 Sep 2022 14:53

Tgt Ion: 91 Resp: 255590  
 Ion Ratio Lower Upper  
 91 100  
 92 59.6 48.2 72.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.47

Delta R.T. MSVOA\_L

Lab File:

ClientSampleId:

Acq: 7 Sep 2022 14:55

Tot Ion:1

Ion Rati

117 100

82 64.

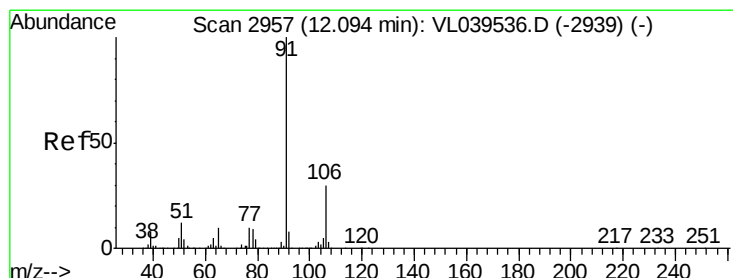
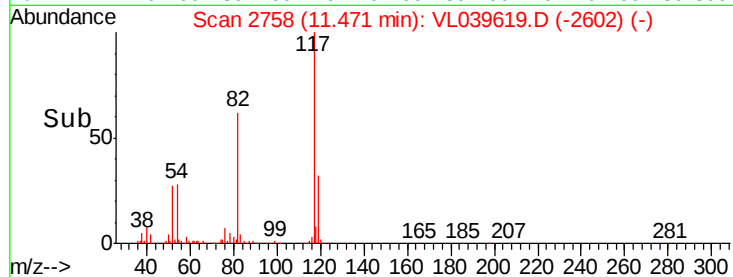
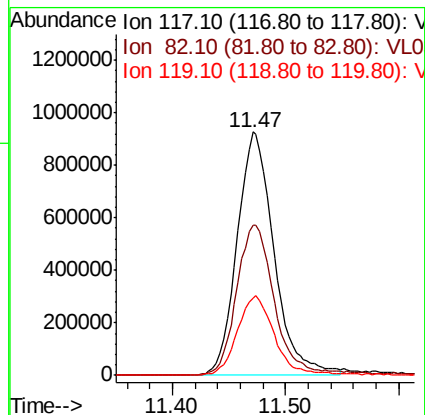
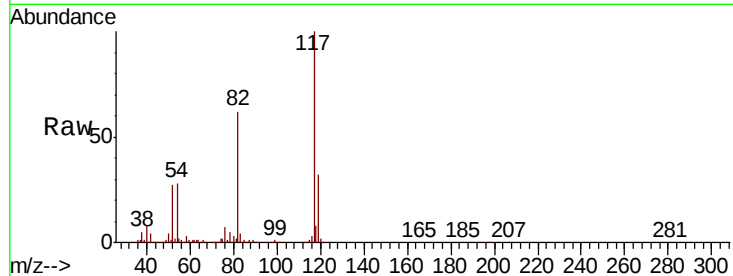
119 33.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022



#58

Ethyl Benzene

Concen: 0.188 ppbv m

RT: 12.09 min Scan# 2950

Delta R.T. -0.01 min

Lab File: VL039619.D

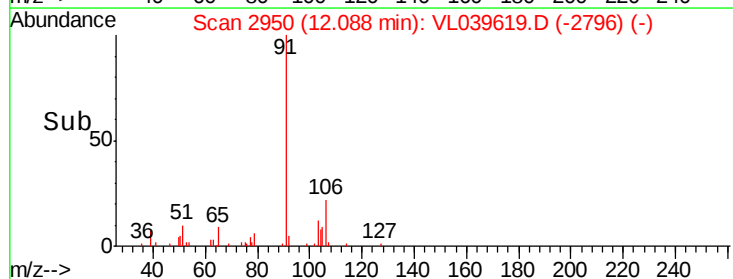
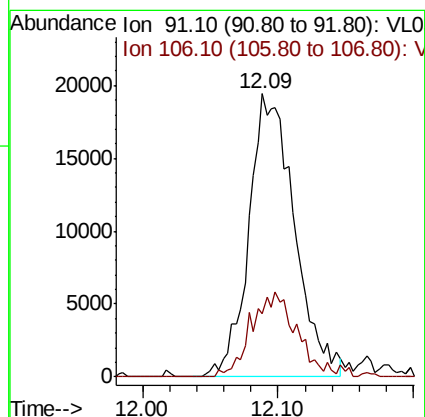
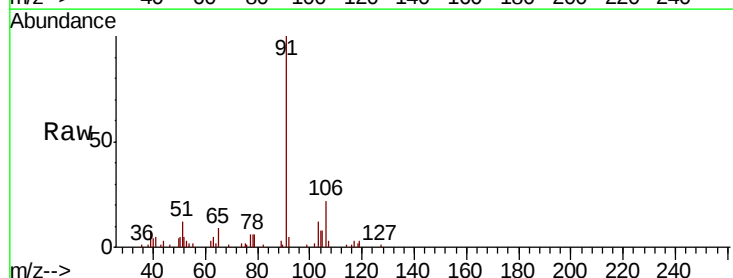
Acq: 7 Sep 2022 14:53

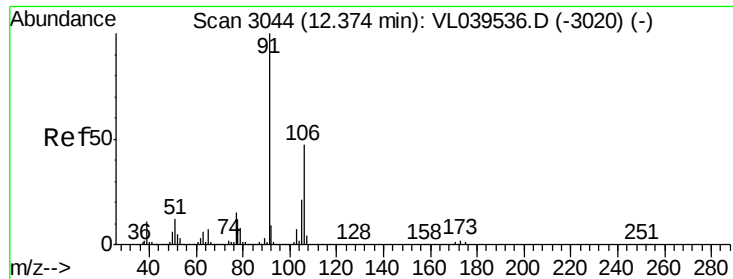
Tgt Ion: 91 Resp: 45521

Ion Ratio Lower Upper

91 100

106 22.2 25.4 38.0#



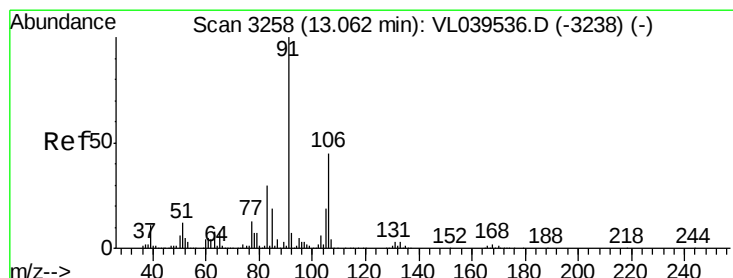
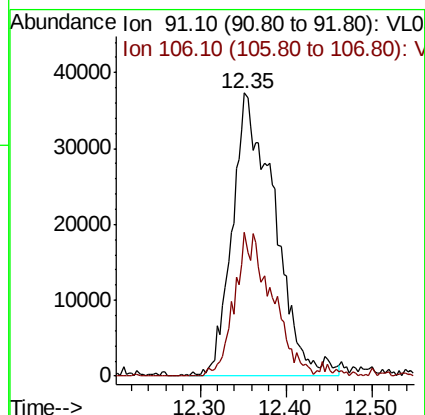
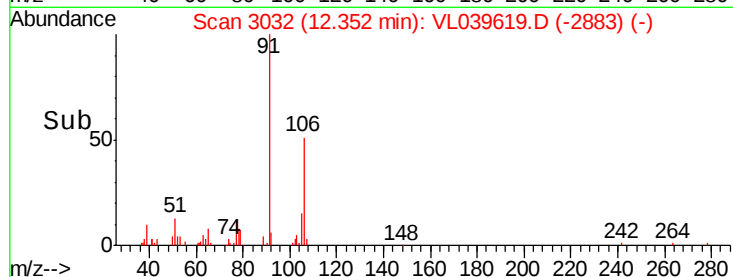
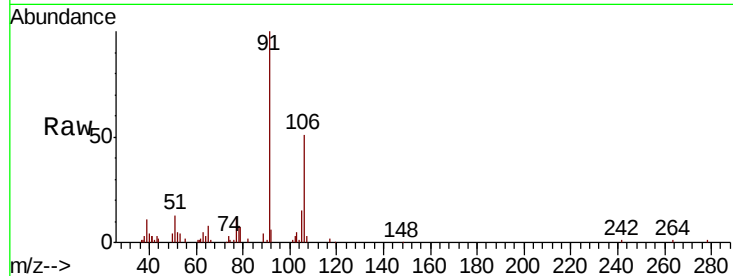


#59  
m/p-Xylene  
Concen: 0.586 ppbv m  
RT: 12.35  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 7 Sep 2022 14:55

Tot Ion:  
Ion Ratio  
91 100  
106 0.

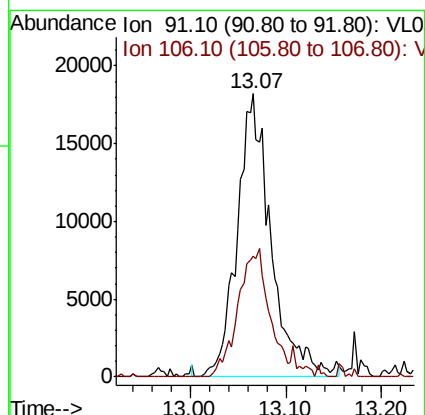
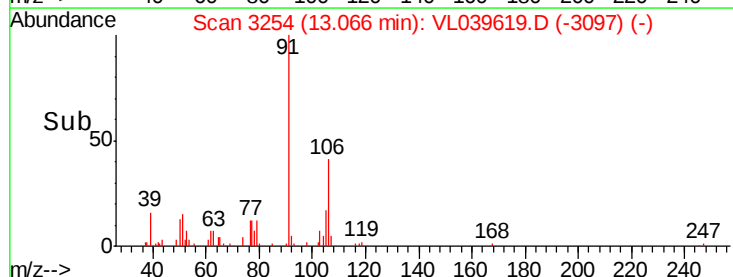
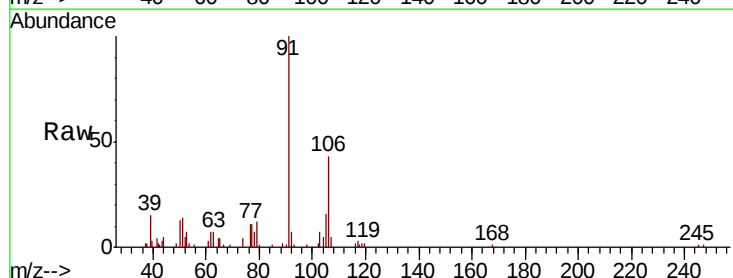
Manual Integrations  
APPROVED

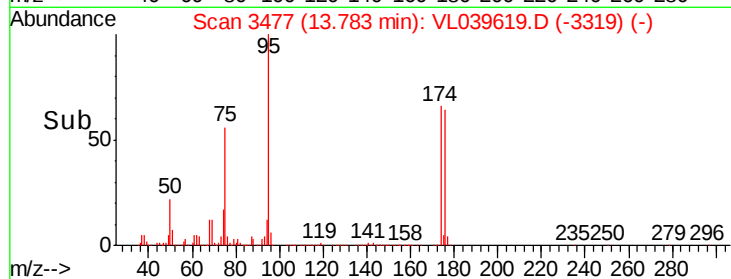
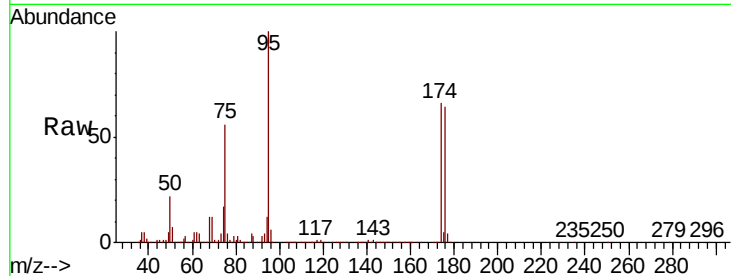
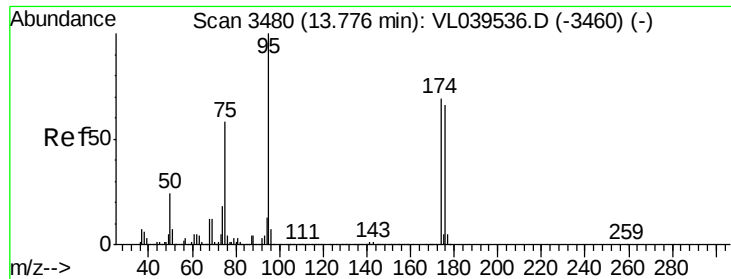
Reviewed By :Semsettin Yesilyurt 09/08/2022  
Supervised By :Mahesh Dadoda 09/08/2022



#60  
o-Xylene  
Concen: 0.215 ppbv m  
RT: 13.07 min Scan# 3254  
Delta R.T. 0.00 min  
Lab File: VL039619.D  
Acq: 7 Sep 2022 14:53

Tgt Ion: 91 Resp: 44843  
Ion Ratio Lower Upper  
91 100  
106 0.0 22.4 67.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.046 ppbv

RT: 13.78

Delta R.T: MSVOA\_L

Lab File: ClientSampleId :

Acq: 7 Sep 2022 14:33

Tot Ion:

Ion Ratio

95 100

174 72.

175 5.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/08/2022

Supervised By :Mahesh Dadoda 09/08/2022

