

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\  
 Data File : VL039211.D  
 Acq On : 7 Jun 2022 16:13  
 Operator : SY/AP  
 Sample : N3199-02DUP  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 IA1DUP

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/10/2022  
 Supervised By : Mahesh Dadoda 06/10/2022

Quant Time: Jun 08 05:41:11 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122A  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
 QLast Update : Wed Jun 01 01:22:18 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 978234   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 2404831  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 2063914  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 1684914  | 9.87     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.70% |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 3.05  | 85   | 49677    | 0.289  | ppbv   | 98     |
| 3) Chlorodifluoromethane   | 2.99  | 51   | 69482m   | 0.558  | ppbv   |        |
| 4) Chloromethane           | 3.14  | 50   | 41025m   | 0.642  | ppbv   |        |
| 9) Propene                 | 3.02  | 41   | 79300m   | 1.461  | ppbv   |        |
| 10) Heptane                | 8.12  | 43   | 17983m   | 0.142  | ppbv   |        |
| 11) Trichlorofluoromethane | 3.95  | 101  | 39972m   | 0.257  | ppbv   |        |
| 13) Ethanol                | 3.60  | 45   | 208984   | 70.607 | ppbv # | 100    |
| 15) Acetone                | 3.85  | 43   | 1121191  | 11.003 | ppbv   | 99     |
| 19) Isopropyl Alcohol      | 3.97  | 45   | 129688m  | 2.713  | ppbv   |        |
| 20) Methylene Chloride     | 4.35  | 84   | 476618   | 11.099 | ppbv   | 98     |
| 26) Hexane                 | 5.69  | 57   | 471128   | 4.668  | ppbv # | 41     |
| 29) Chloroform             | 5.75  | 83   | 50612m   | 0.298  | ppbv   |        |
| 30) Cyclohexane            | 7.13  | 84   | 14104m   | 0.166  | ppbv   |        |
| 34) 2-Butanone             | 5.25  | 43   | 48683m   | 0.373  | ppbv   |        |
| 35) Carbon Tetrachloride   | 7.01  | 117  | 12684m   | 0.072  | ppbv   |        |
| 36) Benzene                | 6.89  | 78   | 572017   | 2.930  | ppbv   | 97     |
| 44) 2,2,4-Trimethylpentane | 7.86  | 57   | 63447m   | 0.186  | ppbv   |        |
| 52) Tetrachloroethene      | 11.22 | 164  | 226123   | 2.966  | ppbv   | 98     |
| 53) Toluene                | 9.80  | 91   | 113345m  | 0.504  | ppbv   |        |
| 59) m/p-Xylene             | 12.96 | 91   | 78766m   | 0.315  | ppbv   |        |
| 60) o-Xylene               | 13.68 | 91   | 34501m   | 0.147  | ppbv   |        |
| 79) Naphthalene            | 22.19 | 128  | 23640m   | 0.111  | ppbv   |        |

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

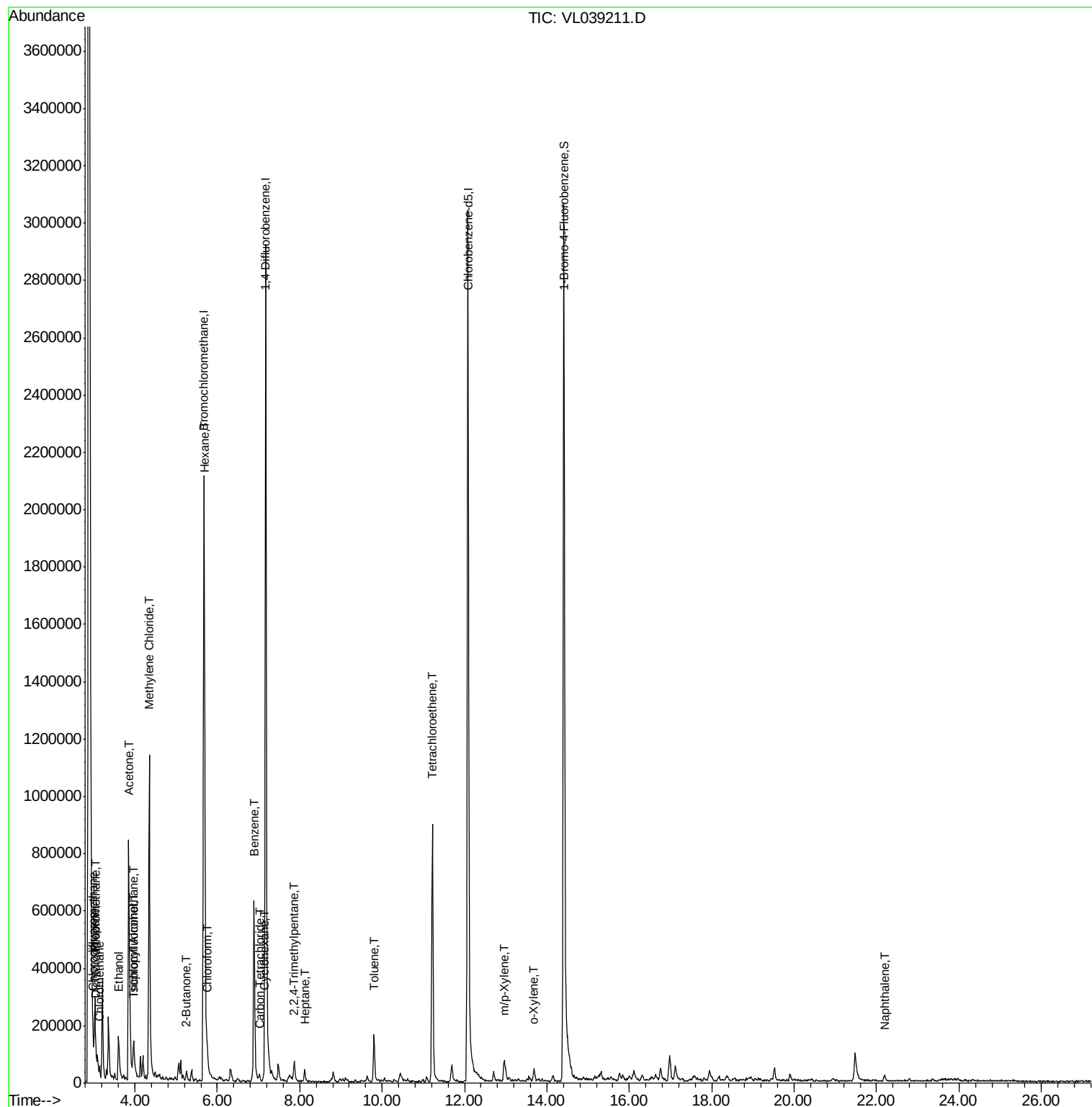
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060722\  
Data File : VL039211.D  
Acq On : 7 Jun 2022 16:13  
Operator : SY/AP  
Sample : N3199-02DUP  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

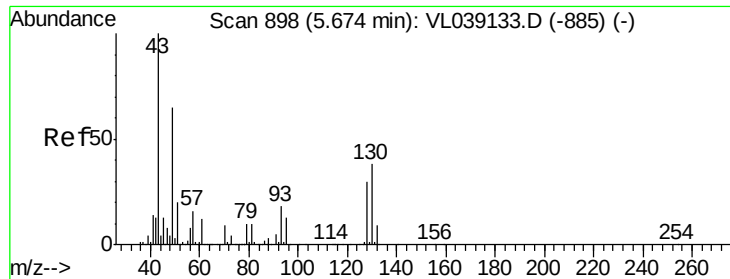
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1DUP

Quant Time: Jun 08 05:41:11 2022  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL053122  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
QLast Update : Wed Jun 01 01:22:18 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022  
Supervised By :Mahesh Dadoda 06/10/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA\_L

Delta R.T. ClientSampleId:

Lab File: IA1DUP

Acq: 7 Jun 2022 16:13

Tot Ion:

Ion Ratio

49 100

128 48.

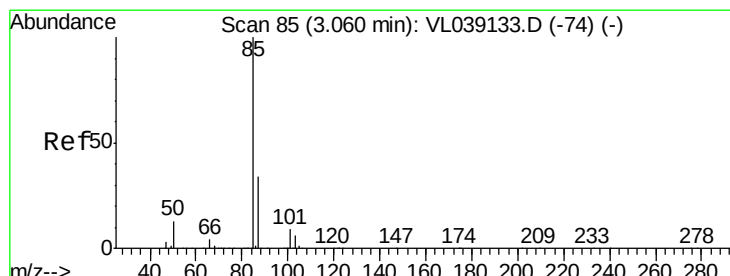
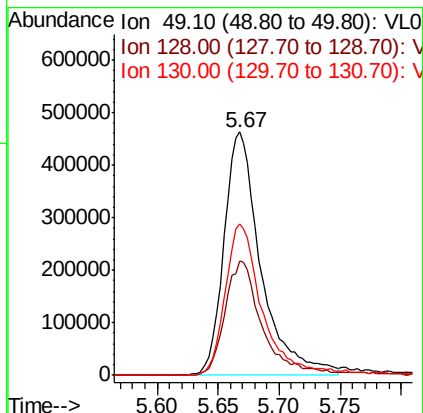
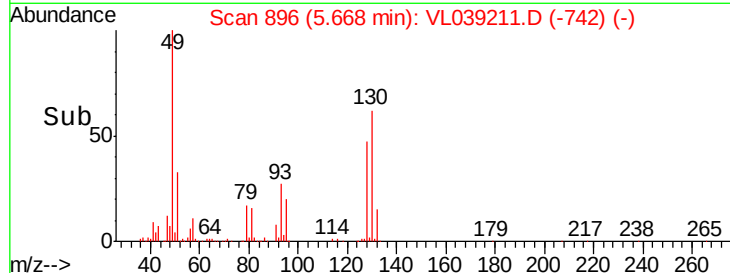
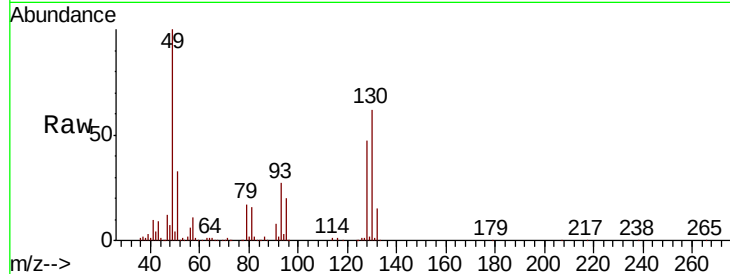
130 64.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#2

Dichlorodifluoromethane

Concen: 0.289 ppbv

RT: 3.05 min Scan# 83

Delta R.T. -0.01 min

Lab File: VL039211.D

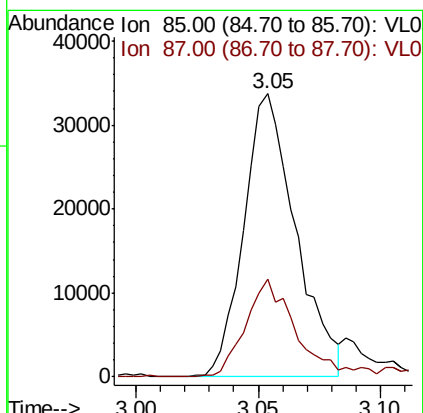
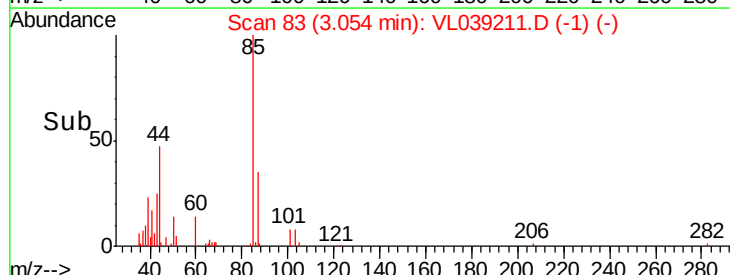
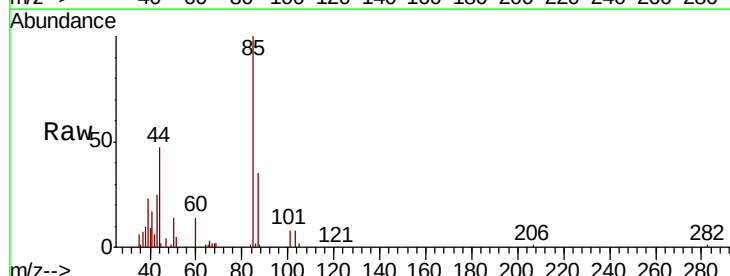
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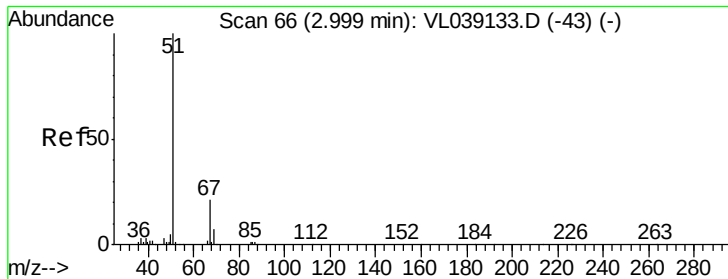
Tgt Ion: 85 Resp: 49677

Ion Ratio Lower Upper

85 100

87 34.6 26.9 40.3





#3

Chlorodifluoromethane

Concen: 0.558 ppbv m

RT: 2.99 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 7 Jun 2022 16:13

Tot Ion:

Ion Ratio

51 100

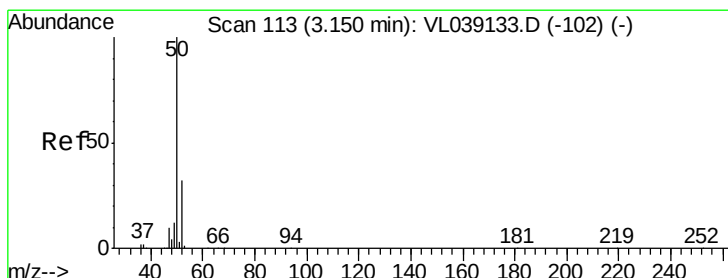
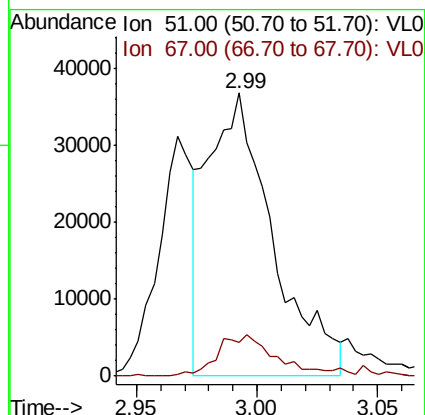
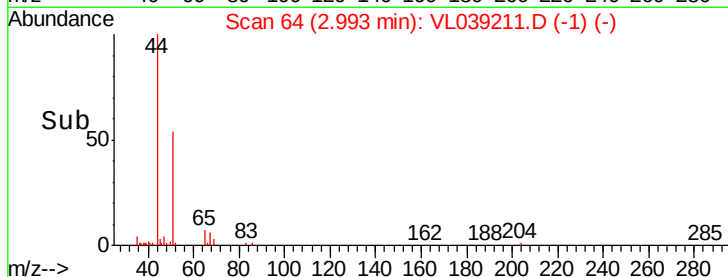
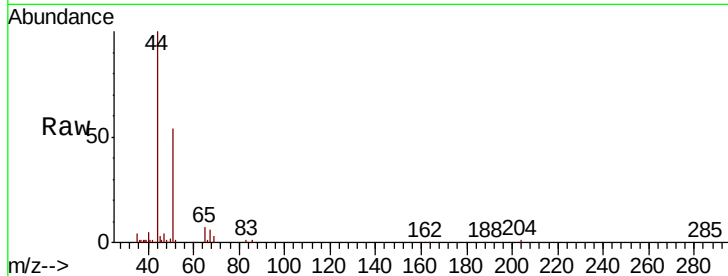
67 14.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#4

Chloromethane

Concen: 0.642 ppbv m

RT: 3.14 min Scan# 110

Delta R.T. -0.01 min

Lab File: VL039211.D

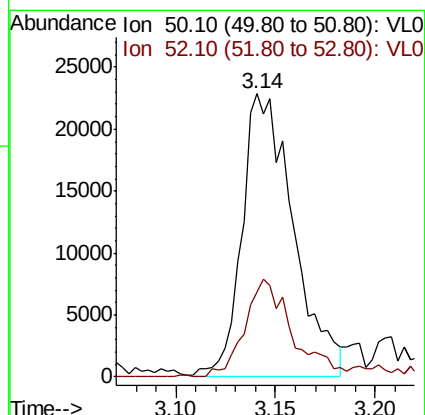
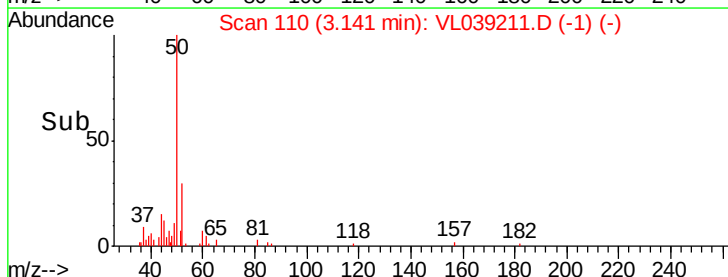
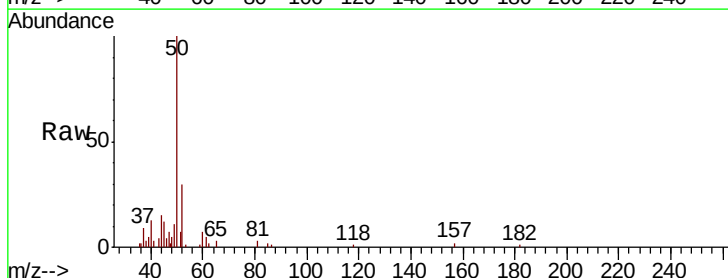
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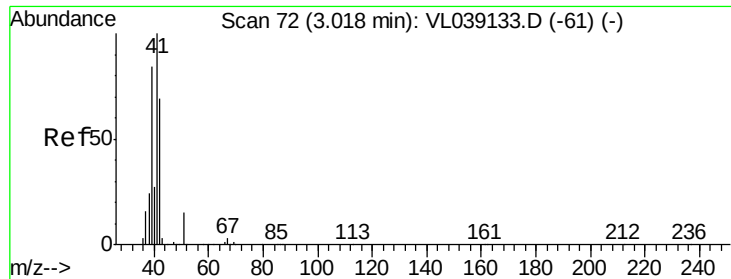
Tgt Ion: 50 Resp: 41025

Ion Ratio Lower Upper

50 100

52 29.9 25.9 38.9





#9

Propene

Concen: 1.461 ppbv m

RT: 3.02 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 7 Jun 2022 16:13

Tot Ion:

Ion Ratio

41 100

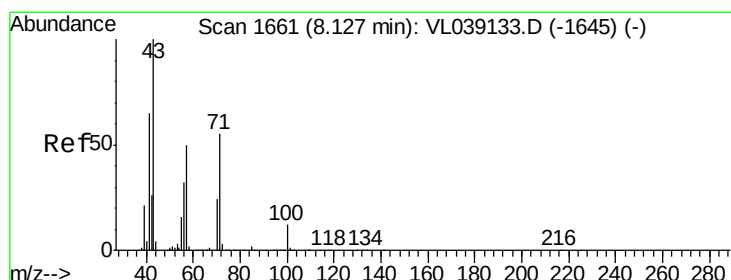
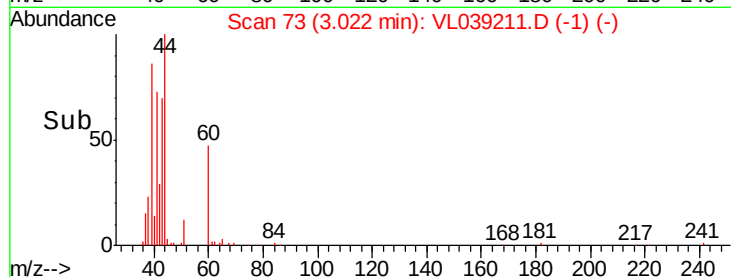
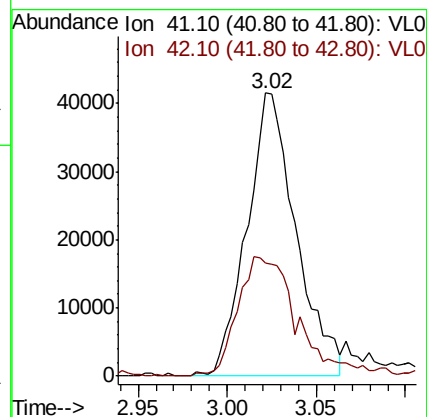
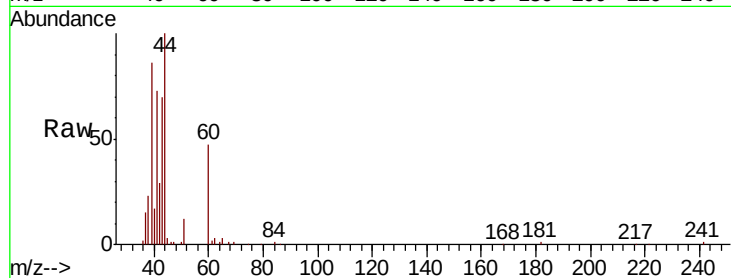
42 98.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#10

Heptane

Concen: 0.142 ppbv m

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL039211.D

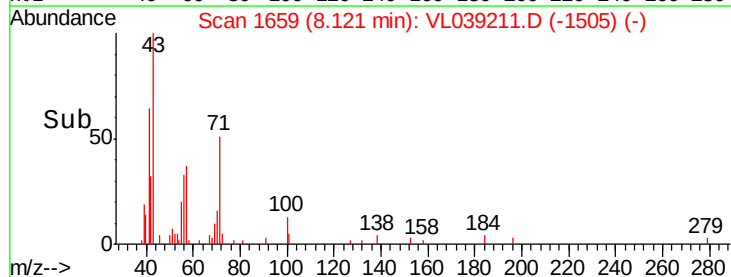
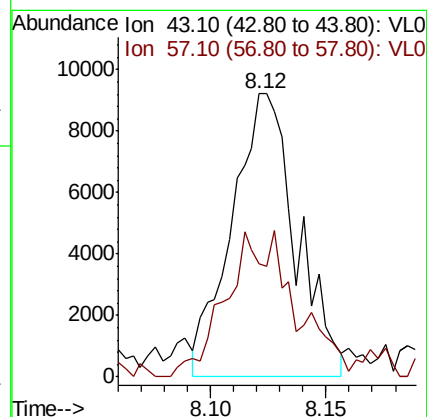
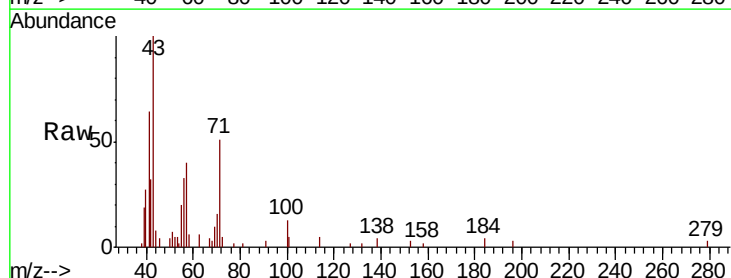
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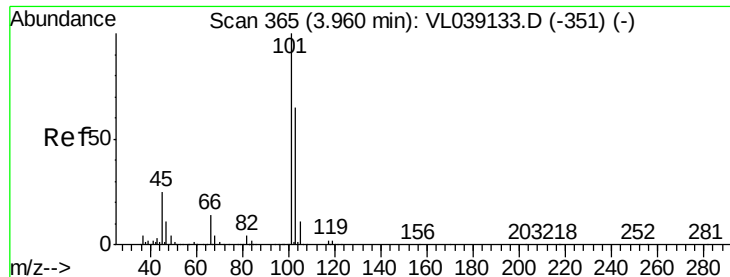
Tgt Ion: 43 Resp: 17983

Ion Ratio Lower Upper

43 100

57 61.2 41.4 62.2



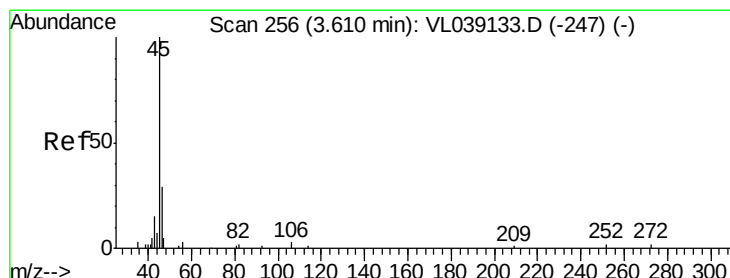
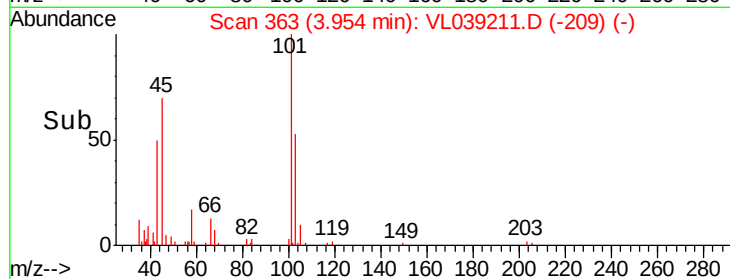
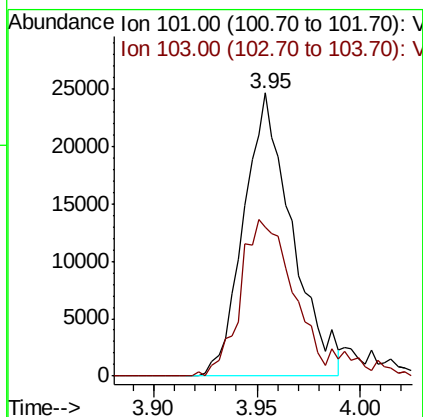
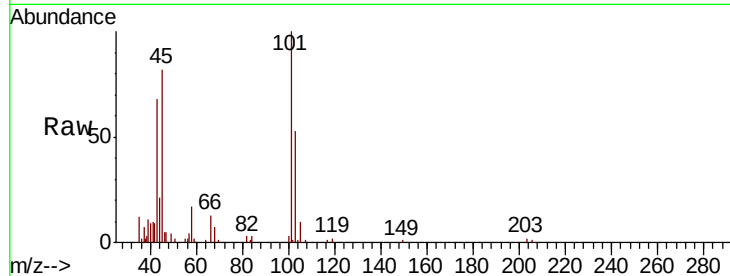


#11  
 Trichlorofluoromethane  
 Concen: 0.257 ppbv m  
 RT: 3.95  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 Acq: 7 Jun 2022 16:13

Tot Ion: 1  
 Ion Ratio  
 101 100  
 103 52.

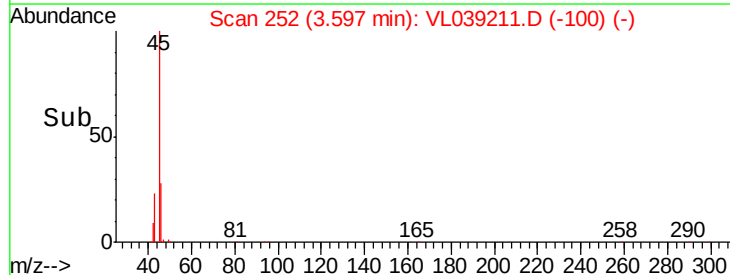
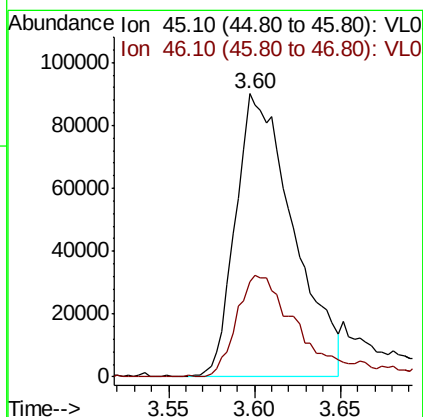
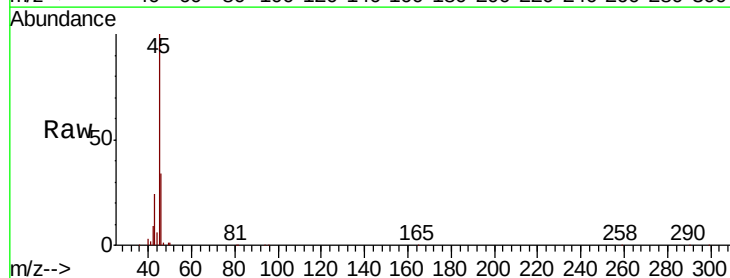
Manual Integrations  
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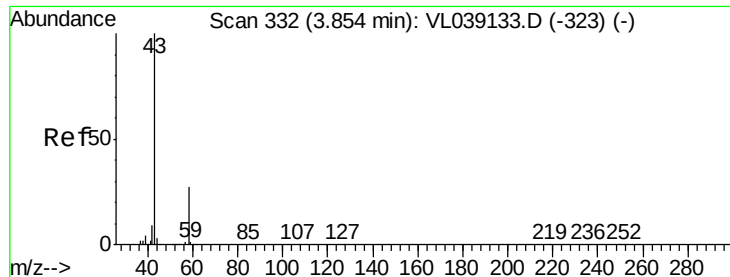
Reviewed By :Semsettin Yesilyurt 06/10/2022  
 Supervised By :Mahesh Dadoda 06/10/2022



#13  
 Ethanol  
 Concen: 70.607 ppbv  
 RT: 3.60 min Scan# 252  
 Delta R.T. -0.01 min  
 Lab File: VL039211.D  
 Acq: 7 Jun 2022 16:13

Tgt Ion: 45 Resp: 208984  
 Ion Ratio Lower Upper  
 45 100  
 46 41.0 0.0 0.0#



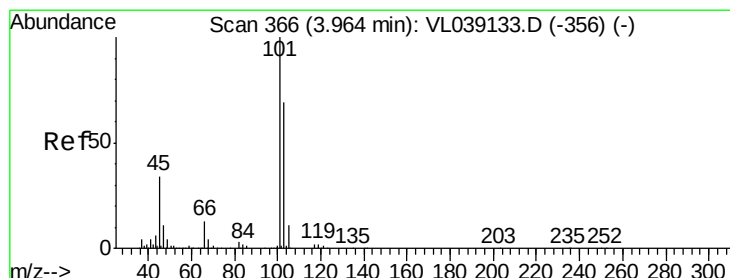
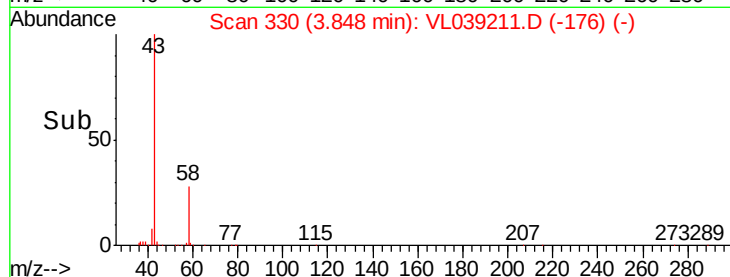
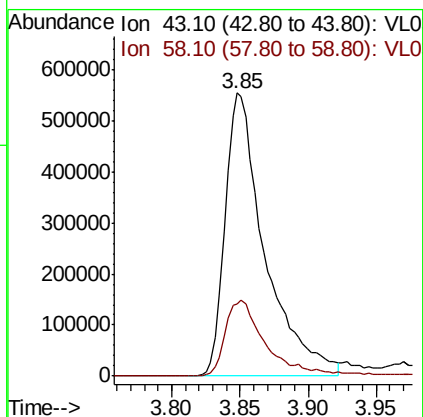
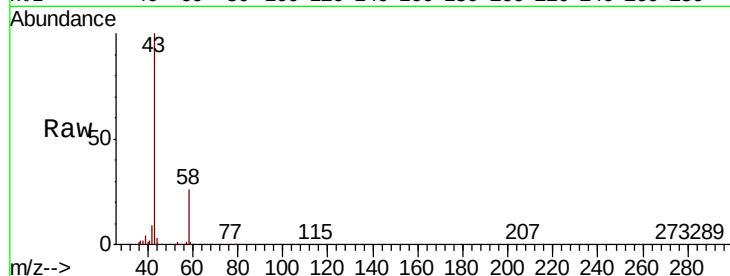


#15  
Acetone  
Concen: 11.003 ppbv  
RT: 3.85  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 7 Jun 2022 16:13

Tot Ion:  
Ion Ratio  
43 100  
58 27.

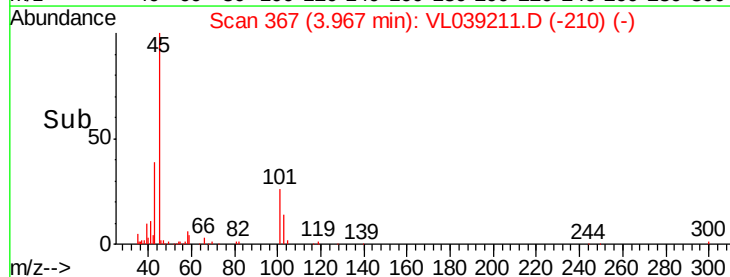
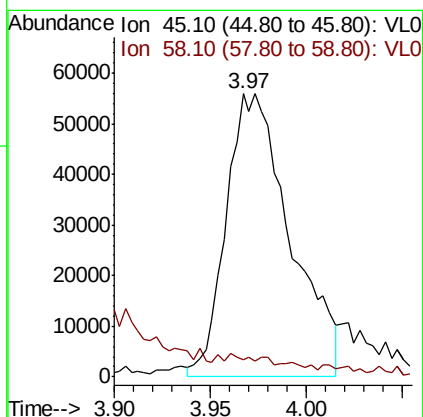
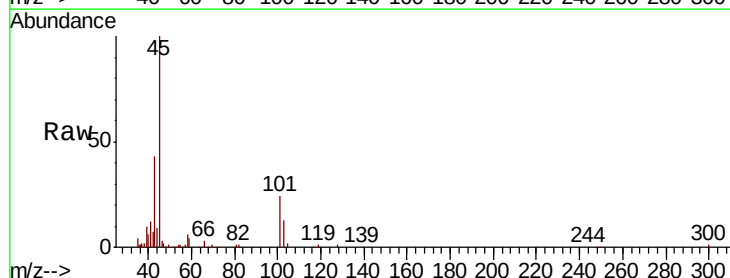
Manual Integrations  
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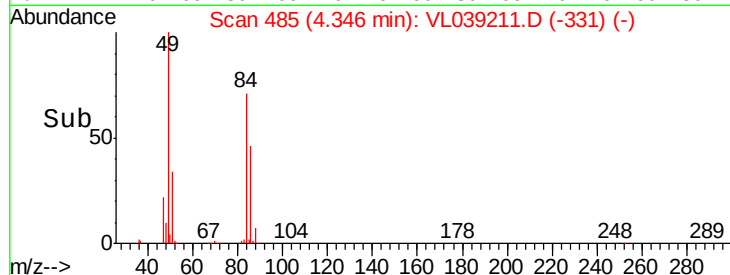
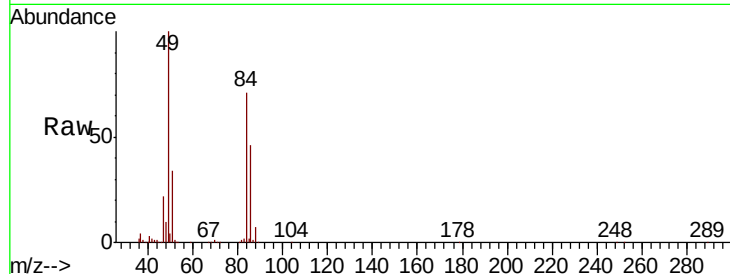
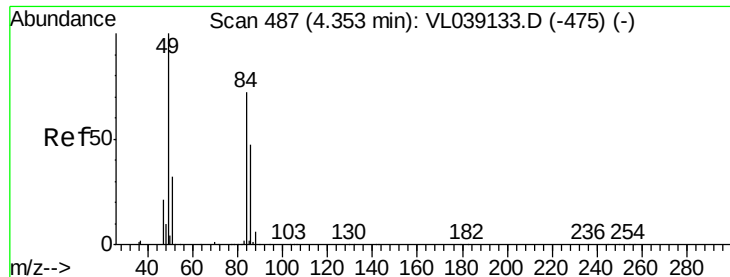
Reviewed By :Semsettin Yesilyurt 06/10/2022  
Supervised By :Mahesh Dadoda 06/10/2022



#19  
Isopropyl Alcohol  
Concen: 2.713 ppbv m  
RT: 3.97 min Scan# 367  
Delta R.T. 0.00 min  
Lab File: VL039211.D  
Acq: 7 Jun 2022 16:13

Tgt Ion: 45 Resp: 129688  
Ion Ratio Lower Upper  
45 100  
58 0.0 1.8 2.8#



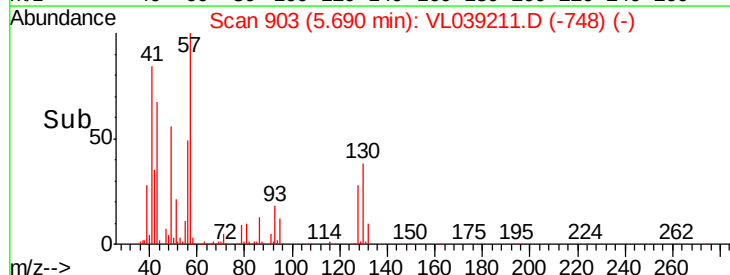
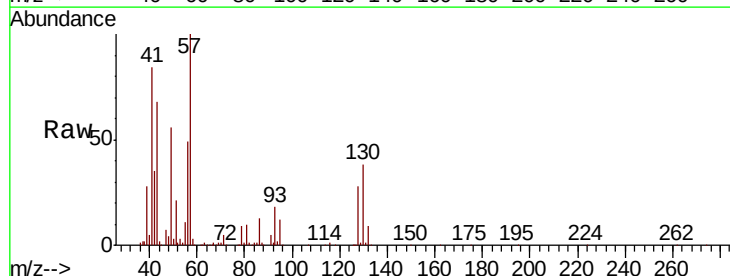
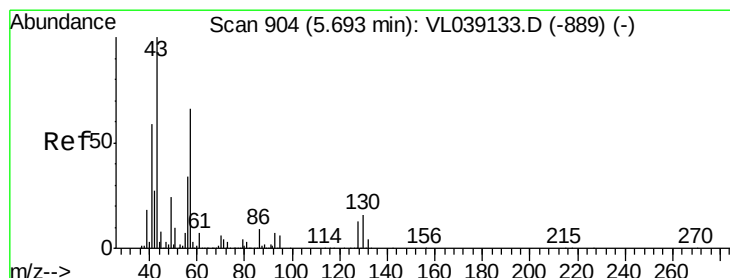
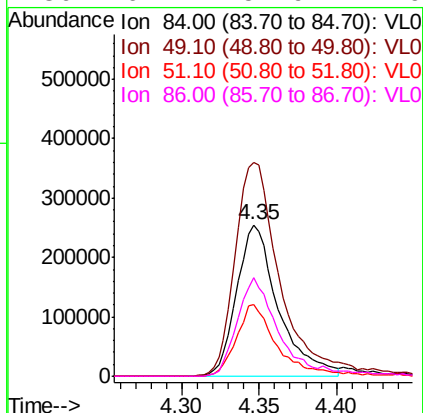


#20  
Methvlene Chloride  
Concen: 11.099 ppbv  
RT: 4.35  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 7 Jun 2022 16:13

Tot Ion:  
Ion Ratio  
84 100  
49 140.  
51 47.  
86 64.7 51.9 77.9

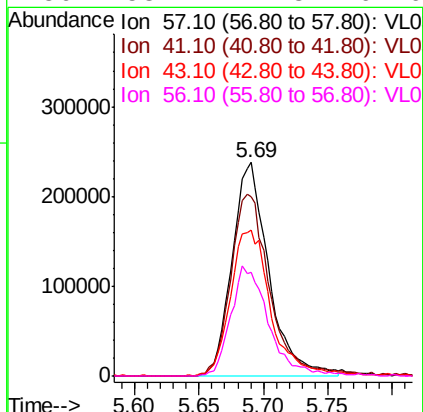
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022  
Supervised By :Mahesh Dadoda 06/10/2022

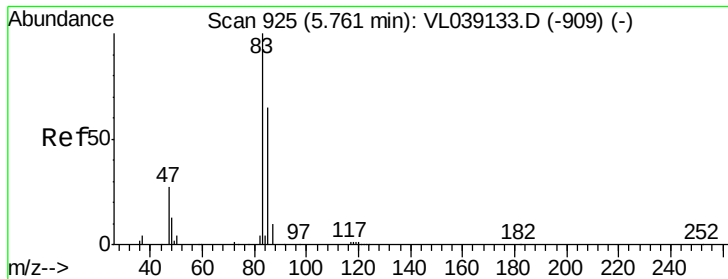


#26  
Hexane  
Concen: 4.668 ppbv  
RT: 5.69 min Scan# 903  
Delta R.T. -0.00 min  
Lab File: VL039211.D  
Acq: 7 Jun 2022 16:13

Tgt Ion: 57 Resp: 471128  
Ion Ratio Lower Upper  
57 100  
41 91.7 72.4 108.6  
43 75.3 187.0 280.6#  
56 53.4 41.8 62.6





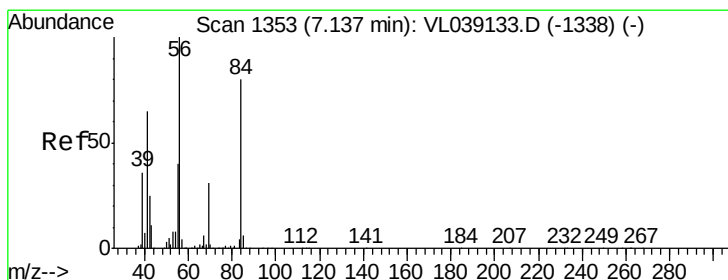
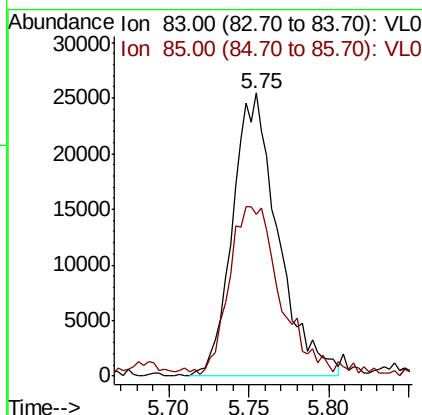
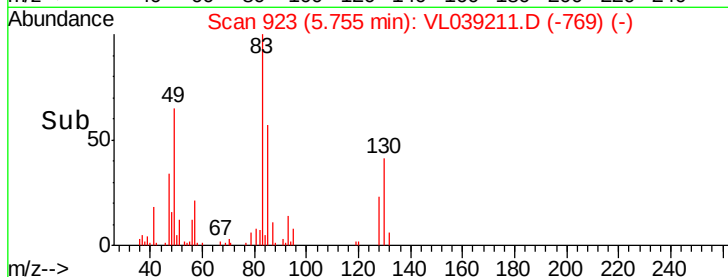
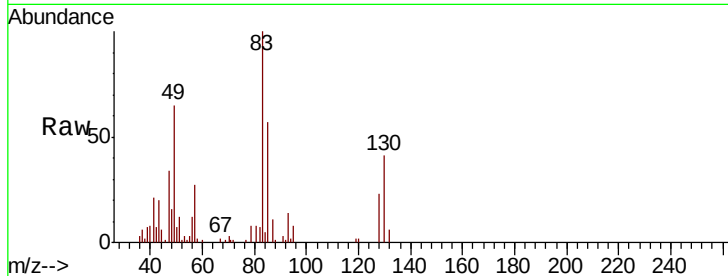


#29  
Chloroform  
Concen: 0.298 ppbv m  
RT: 5.75  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 7 Jun 2022 16:13

Tot Ion:  
Ion Ratio  
83 100  
85 57.

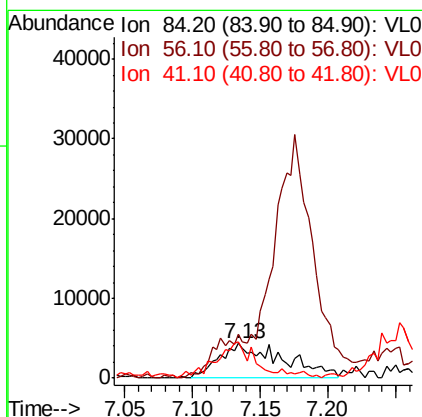
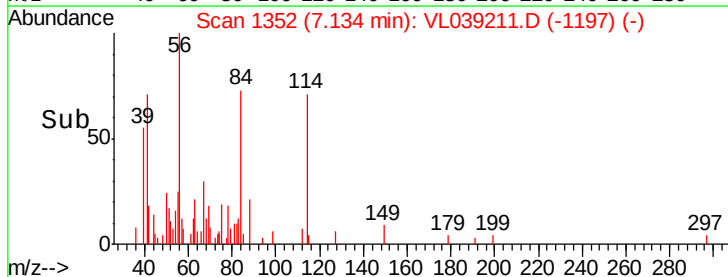
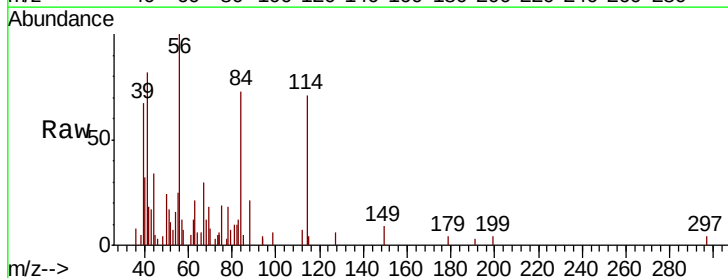
Manual Integrations  
APPROVED

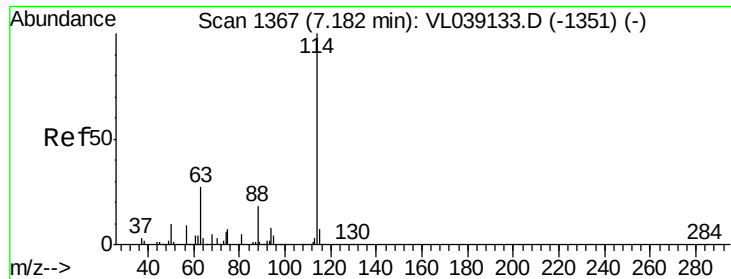
Reviewed By :Semsettin Yesilyurt 06/10/2022  
Supervised By :Mahesh Dadoda 06/10/2022



#30  
Cyclohexane  
Concen: 0.166 ppbv m  
RT: 7.13 min Scan# 1352  
Delta R.T. -0.00 min  
Lab File: VL039211.D  
Acq: 7 Jun 2022 16:13

Tgt Ion: 84 Resp: 14104  
Ion Ratio Lower Upper  
84 100  
56 0.0 110.6 165.8#  
41 71.3 68.9 103.3



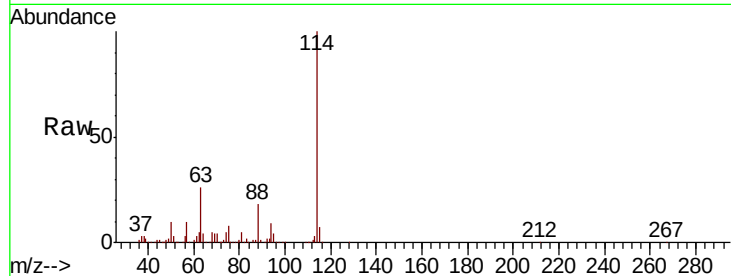


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 7 Jun 2022 16:13

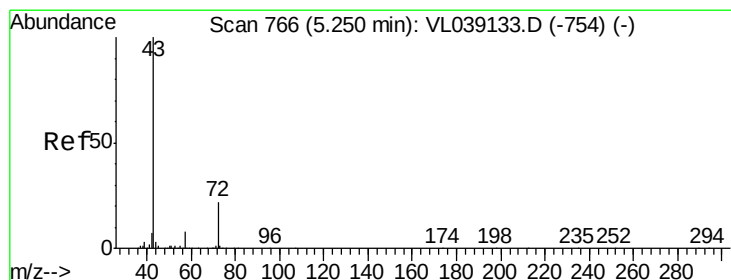
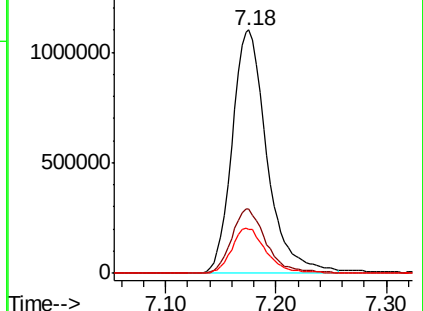
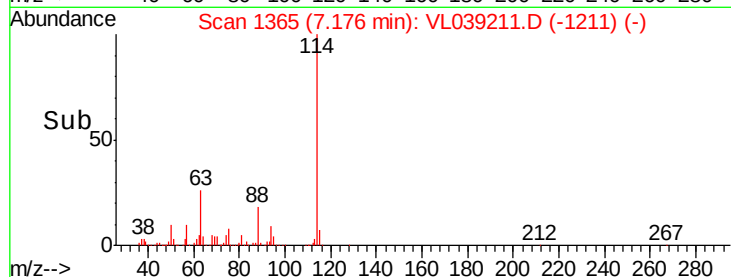
Tot Ion: 1  
 Ion Ratio  
 114 100  
 63 26.  
 88 18.

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Reviewed By : Semsettin Yesilyurt 06/10/2022  
 Supervised By : Mahesh Dadoda 06/10/2022

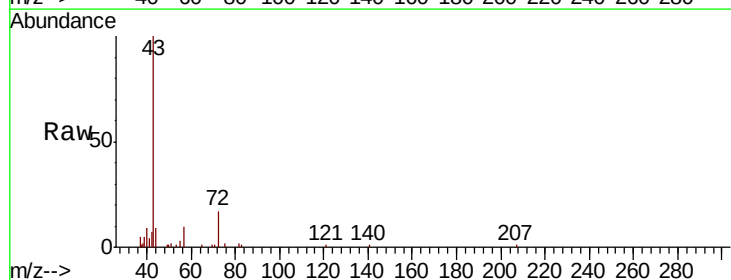


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

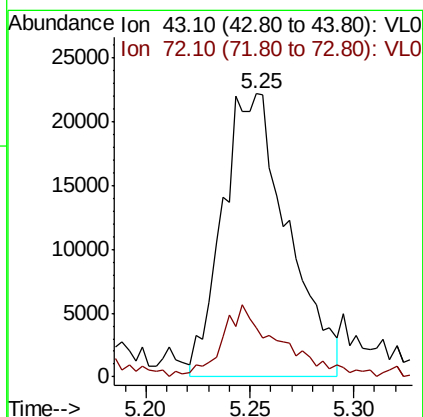
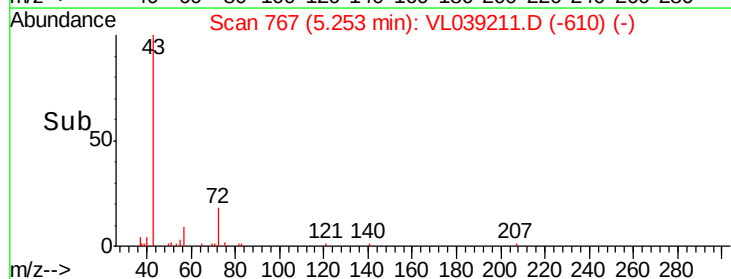


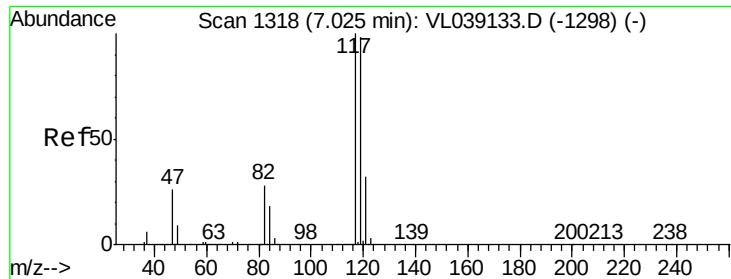
#34  
 2-Butanone  
 Concen: 0.373 ppbv m  
 RT: 5.25 min Scan# 767  
 Delta R.T. 0.00 min  
 Lab File: VL039211.D  
 Acq: 7 Jun 2022 16:13

Tgt Ion: 43 Resp: 48683  
 Ion Ratio Lower Upper  
 43 100  
 72 23.6 18.2 27.2



Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.072 ppbv m

RT: 7.01 Instrument:

Delta R.T. MSVOA\_L

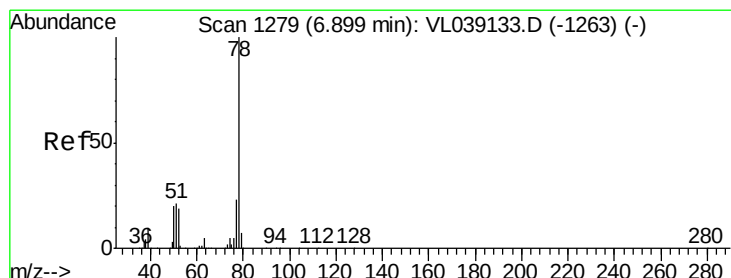
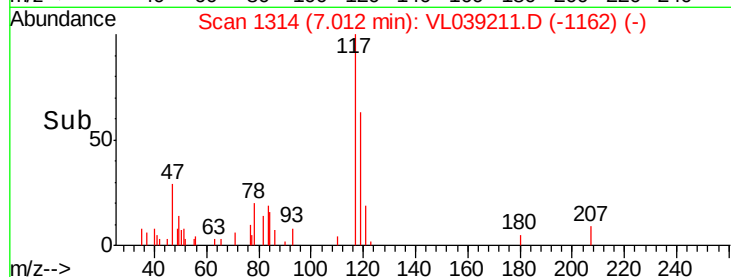
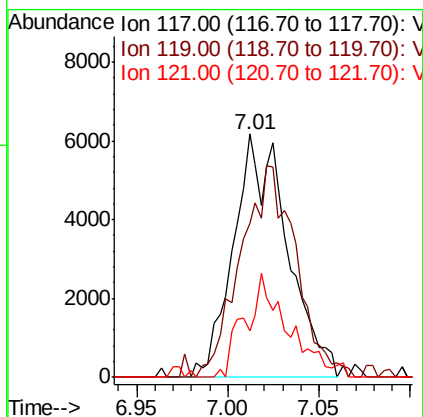
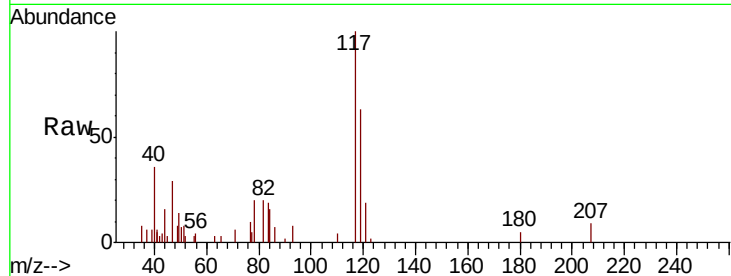
Lab File: ClientSampleId:

Acq: 7 Jun 2022 16:13

Tot Ion:1  
Ion Rati  
117 100  
119 63.  
121 19.

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Reviewed By :Semsettin Yesilyurt 06/10/2022  
Supervised By :Mahesh Dadoda 06/10/2022



#36

Benzene

Concen: 2.930 ppbv

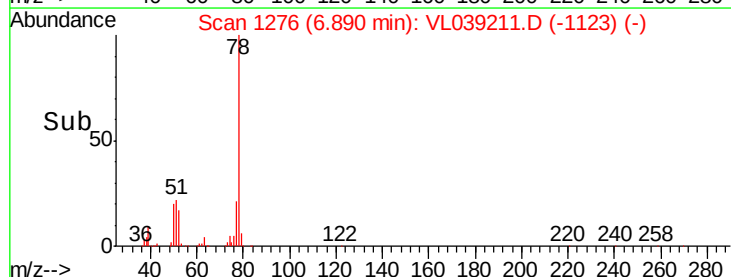
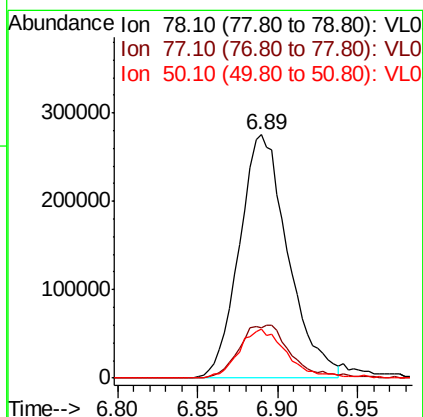
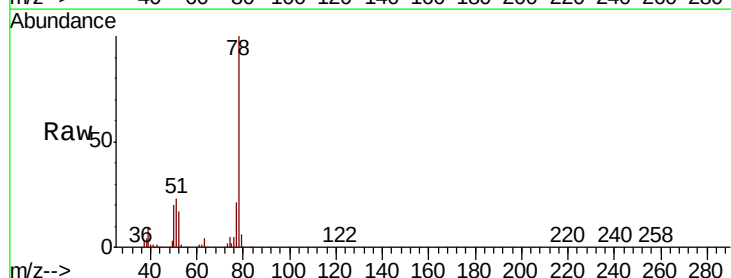
RT: 6.89 min Scan# 1276

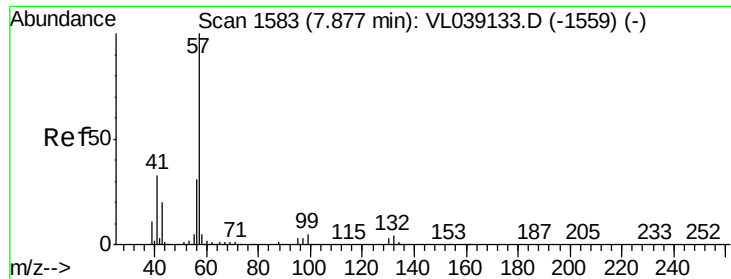
Delta R.T. -0.01 min

Lab File: VL039211.D

Acq: 7 Jun 2022 16:13

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 78      | 100   | 572017 |       |       |
| 77      | 20.9  |        | 18.6  | 27.8  |
| 50      | 19.8  |        | 15.8  | 23.8  |



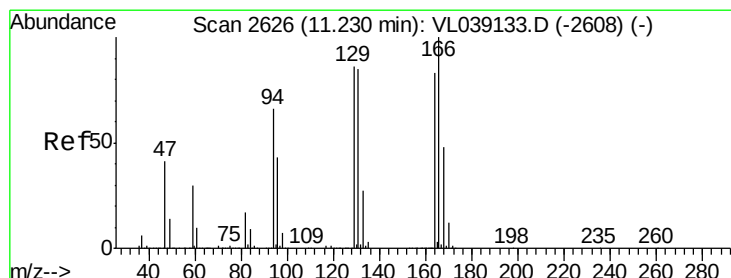
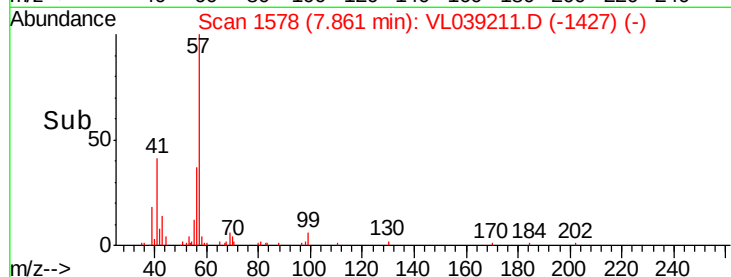
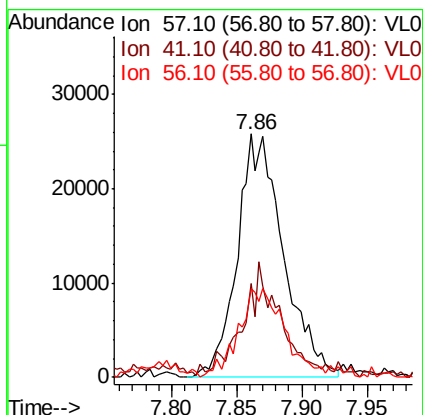
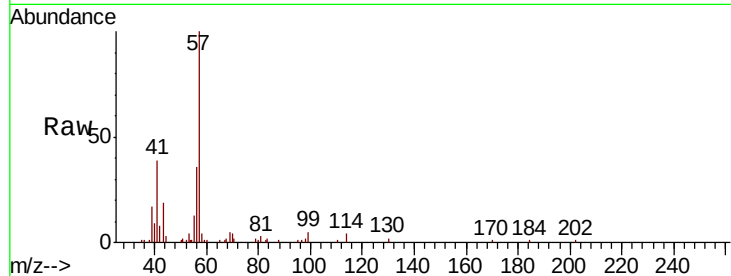


#44  
2,2,4-Trimethylpentane  
Concen: 0.186 ppbv m  
RT: 7.86  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 7 Jun 2022 16:13

Tot Ion:  
Ion Ratio  
57 100  
41 41.  
56 0.

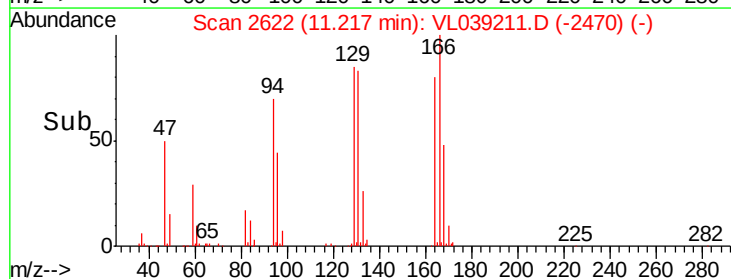
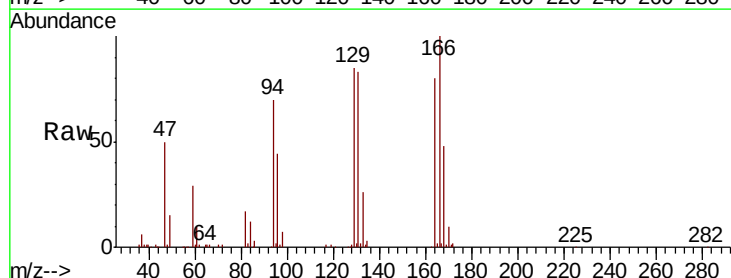
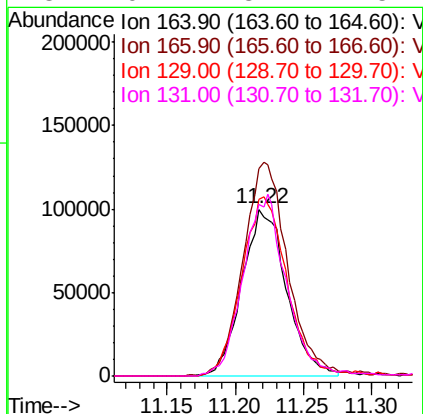
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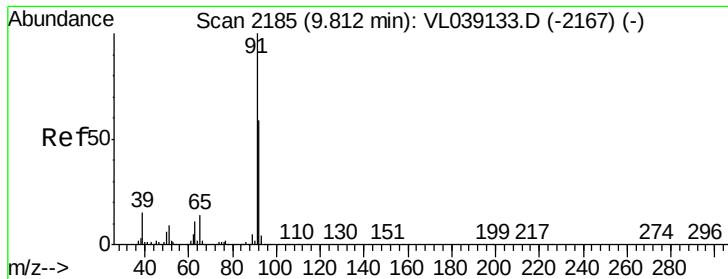
Reviewed By :Semsettin Yesilyurt 06/10/2022  
Supervised By :Mahesh Dadoda 06/10/2022



#52  
Tetrachloroethene  
Concen: 2.966 ppbv  
RT: 11.22 min Scan# 2622  
Delta R.T. -0.01 min  
Lab File: VL039211.D  
Acq: 7 Jun 2022 16:13

Tgt Ion:164 Resp: 226123  
Ion Ratio Lower Upper  
164 100  
166 123.8 96.3 144.5  
129 105.9 82.5 123.7  
131 102.7 82.1 123.1





#53

Toluene

Concen: 0.504 ppbv m

RT: 9.80

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 7 Jun 2022 16:13

Tot Ion:

Ion Ratio

91 100

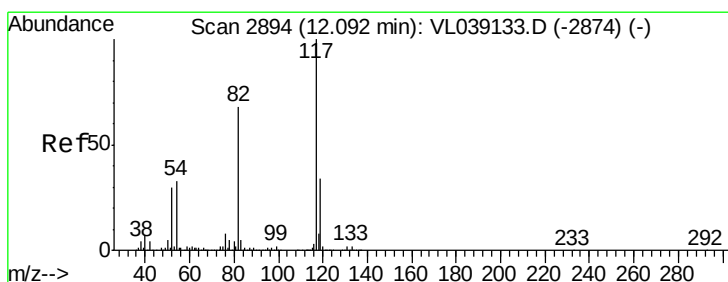
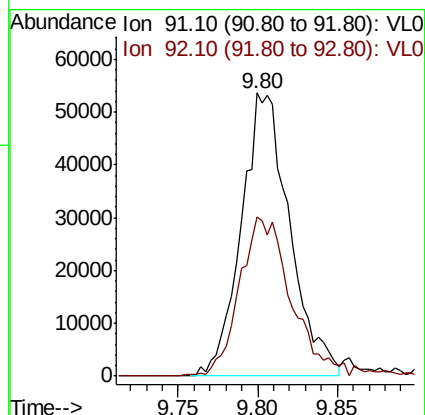
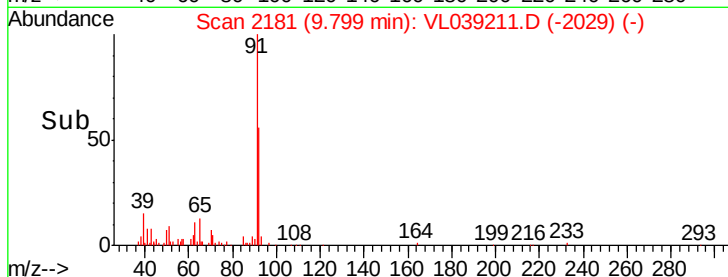
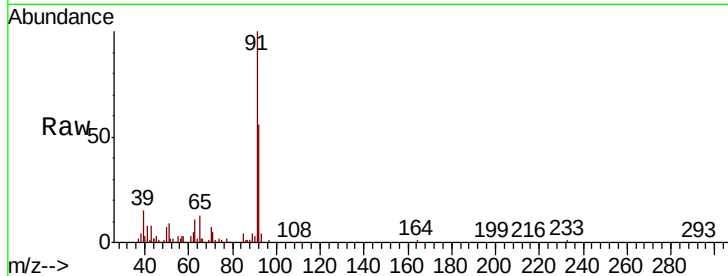
92 0.

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Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL039211.D

Acq: 7 Jun 2022 16:13

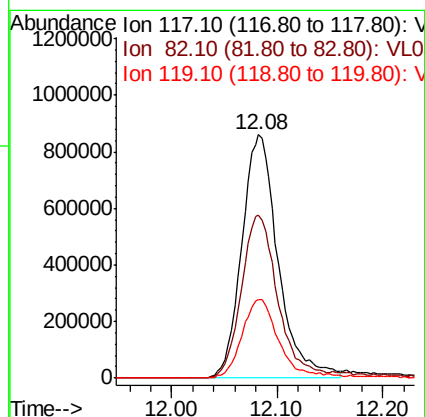
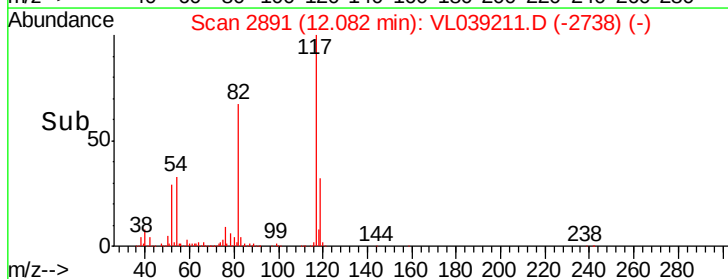
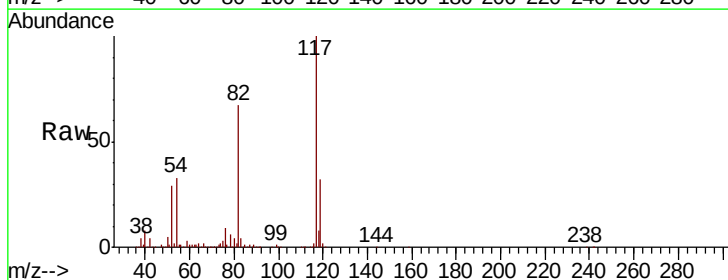
Tgt Ion:117 Resp: 2063914

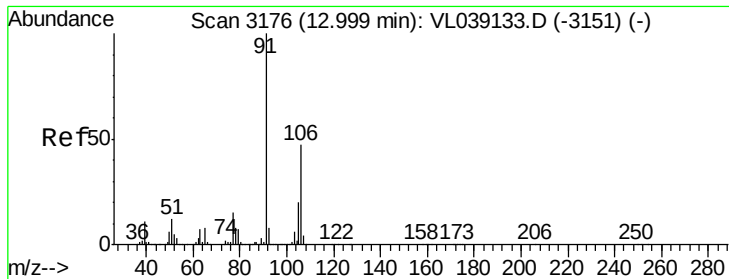
Ion Ratio Lower Upper

117 100

82 71.4 55.1 82.7

119 34.1 24.7 37.1



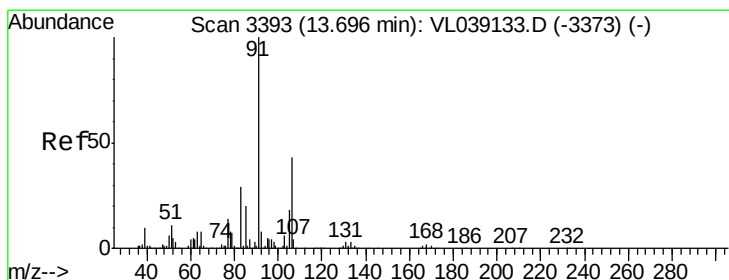
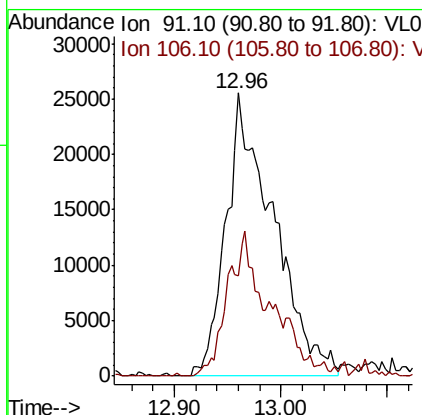
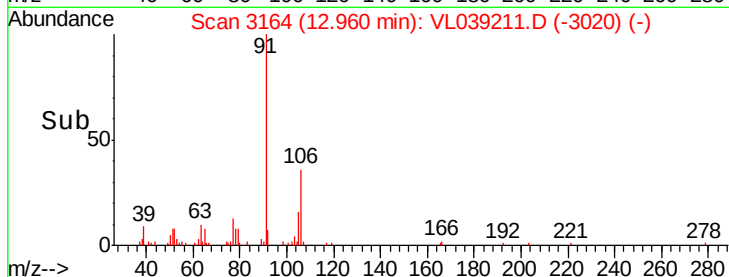
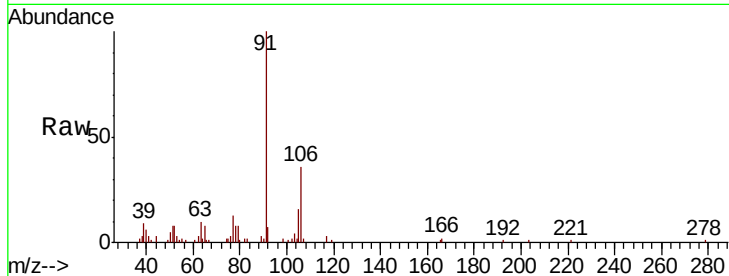


#59  
m/p-Xylene  
Concen: 0.315 ppbv m  
RT: 12.96  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 7 Jun 2022 16:13

Tot Ion:  
Ion Ratio  
91 100  
106 0.

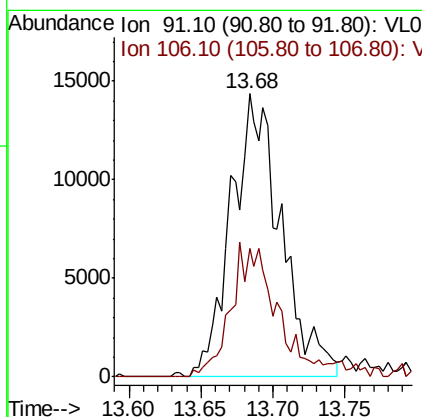
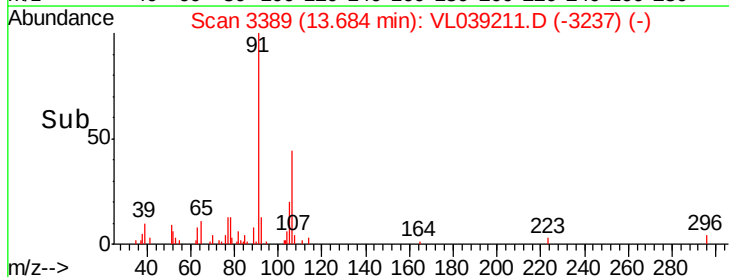
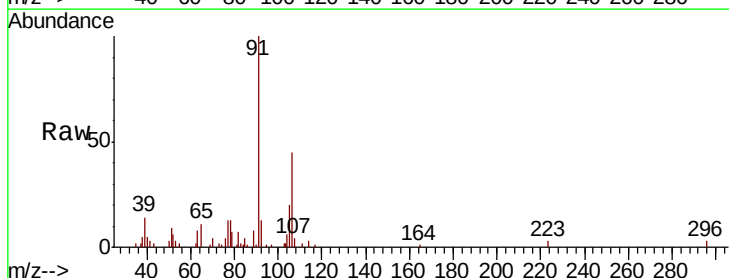
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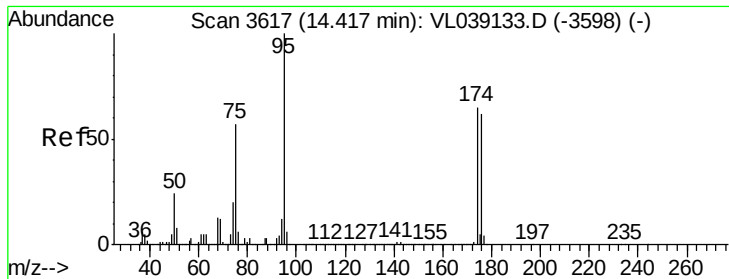
Reviewed By :Semsettin Yesilyurt 06/10/2022  
Supervised By :Mahesh Dadoda 06/10/2022



#60  
o-Xylene  
Concen: 0.147 ppbv m  
RT: 13.68 min Scan# 3389  
Delta R.T. -0.01 min  
Lab File: VL039211.D  
Acq: 7 Jun 2022 16:13

Tgt Ion: 91 Resp: 34501  
Ion Ratio Lower Upper  
91 100  
106 46.6 22.3 66.9





#68

1-Bromo-4-Fluorobenzene

Concen: 9.875 ppbv

RT: 14.41

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 7 Jun 2022 16:13

Tot Ion:

Ion Ratio

95 100

174 67.

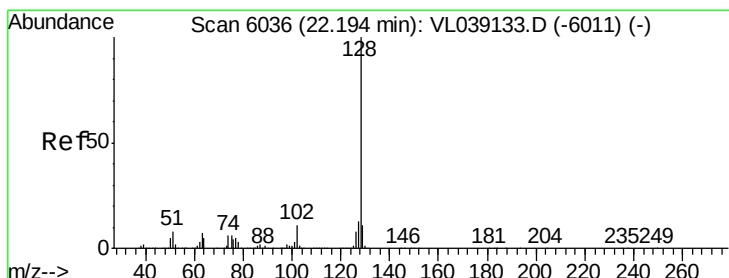
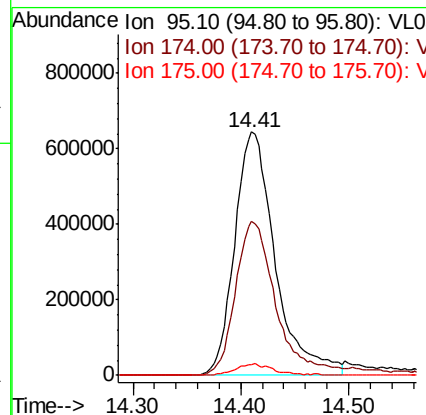
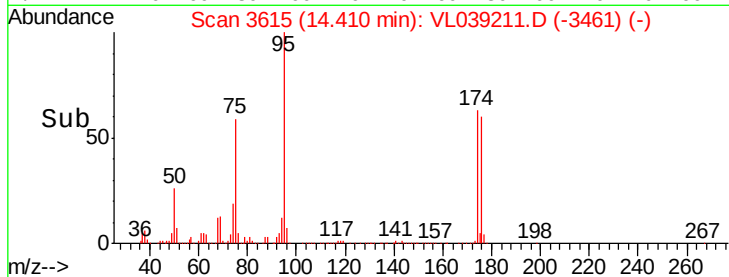
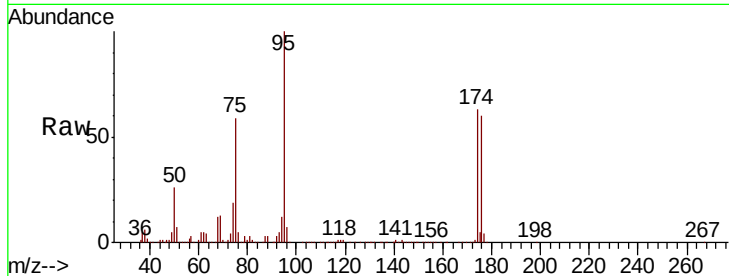
175 4.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#79

Naphthalene

Concen: 0.111 ppbv m

RT: 22.19 min Scan# 6036

Delta R.T. 0.00 min

Lab File: VL039211.D

Acq: 7 Jun 2022 16:13

Tgt Ion:128 Resp: 23640

Ion Ratio Lower Upper

128 100

127 10.0 10.4 15.6#

129 11.4 9.0 13.6

