

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\  
 Data File : VL038971.D  
 Acq On : 5 May 2022 14:01  
 Operator : SY/AP  
 Sample : N2698-01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 SV1

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/07/2022  
 Supervised By : Mahesh Dadoda 05/09/2022

Quant Time: May 06 08:14:13 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Thu May 05 07:41:27 2022

Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1104341  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2526177  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 2232176  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 1896291  | 10.73    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 107.30% |

Target Compounds

|                            |       |     |         |        |        | Ovalue |
|----------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 3.05  | 85  | 55239   | 0.319  | ppbv   | 100    |
| 3) Chlorodifluoromethane   | 2.99  | 51  | 41179m  | 0.301  | ppbv   |        |
| 9) Propene                 | 3.02  | 41  | 59528m  | 0.995  | ppbv   |        |
| 11) Trichlorofluoromethane | 3.95  | 101 | 36300m  | 0.245  | ppbv   |        |
| 13) Ethanol                | 3.60  | 45  | 56679m  | 12.128 | ppbv   |        |
| 15) Acetone                | 3.84  | 43  | 2049657 | 19.676 | ppbv   | 91     |
| 17) tert-Butyl alcohol     | 4.29  | 59  | 45787   | 0.572  | ppbv # | 94     |
| 19) Isopropyl Alcohol      | 3.97  | 45  | 33773   | 0.682  | ppbv # | 95     |
| 20) Methylene Chloride     | 4.34  | 84  | 824611  | 21.003 | ppbv   | 97     |
| 26) Hexane                 | 5.68  | 57  | 870789  | 7.860  | ppbv # | 39     |
| 27) Carbon Disulfide       | 4.55  | 76  | 27151   | 0.258  | ppbv # | 82     |
| 34) 2-Butanone             | 5.24  | 43  | 944148  | 7.326  | ppbv   | 98     |
| 35) Carbon Tetrachloride   | 7.00  | 117 | 10031m  | 0.060  | ppbv   |        |
| 36) Benzene                | 6.88  | 78  | 21485   | 0.099  | ppbv   | 97     |
| 51) 2-Hexanone             | 10.12 | 43  | 659596  | 3.999  | ppbv # | 99     |
| 52) Tetrachloroethene      | 11.21 | 164 | 28294m  | 0.366  | ppbv   |        |
| 53) Toluene                | 9.79  | 91  | 70531m  | 0.291  | ppbv   |        |
| 58) Ethyl Benzene          | 12.69 | 91  | 120907  | 0.376  | ppbv   | 94     |
| 59) m/p-Xylene             | 12.95 | 91  | 466424m | 1.701  | ppbv   |        |
| 60) o-Xylene               | 13.68 | 91  | 178343m | 0.691  | ppbv   |        |
| 61) Styrene                | 13.51 | 104 | 38629m  | 0.280  | ppbv   |        |
| 62) Isopropylbenzene       | 14.65 | 105 | 126799  | 0.385  | ppbv   | 97     |
| 74) 1,2,4-Trimethylbenzene | 16.75 | 105 | 149484  | 0.516  | ppbv # | 65     |

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

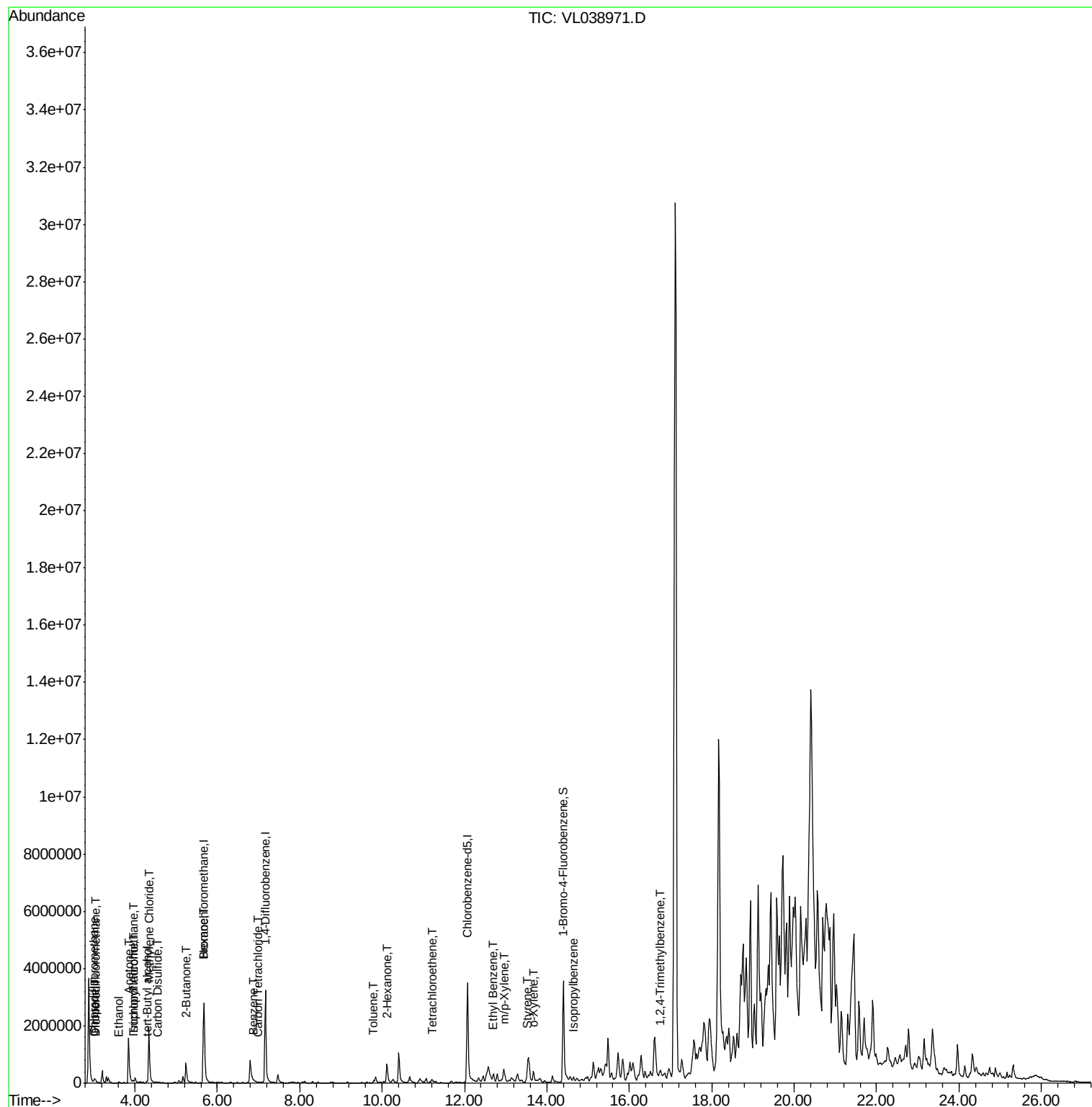
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050522\  
Data File : VL038971.D  
Acq On : 5 May 2022 14:01  
Operator : SY/AP  
Sample : N2698-01  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

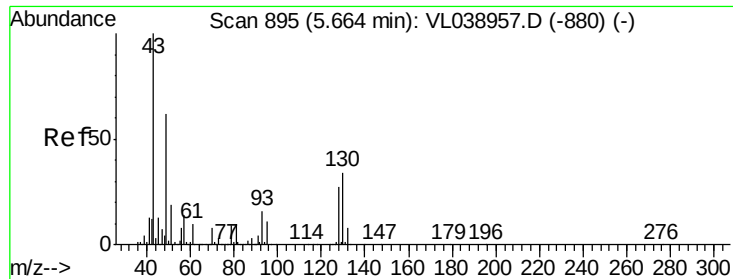
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1

Quant Time: May 06 08:14:13 2022  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522\  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:  
QLast Update : Thu May 05 07:41:27 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2022  
Supervised By :Mahesh Dadoda 05/09/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument :

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 5 May 2022 14:01 SV1

Tot Ion:

Ion Ratio

49 100

128 44.

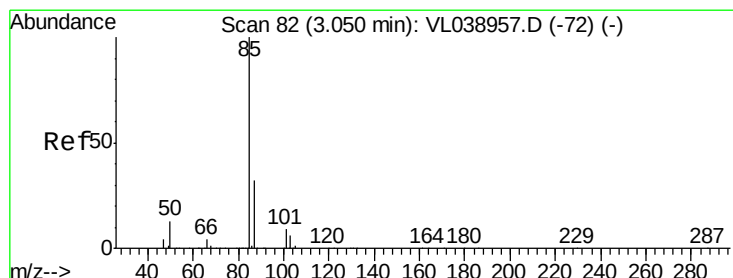
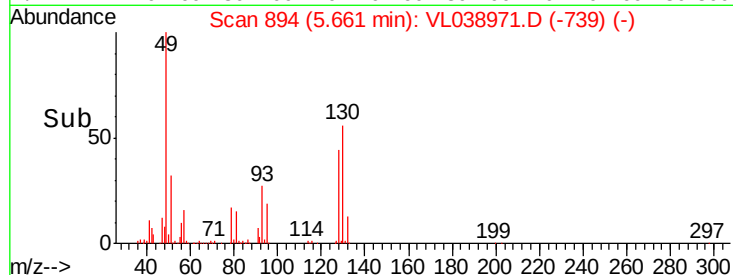
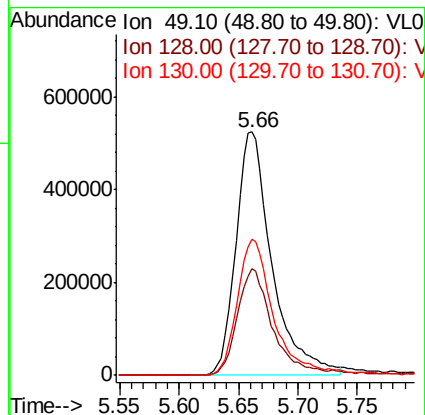
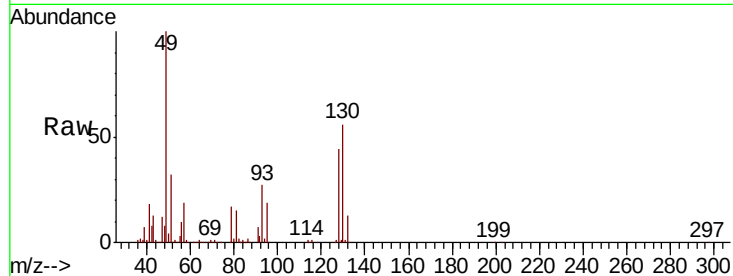
130 57.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/07/2022

Supervised By :Mahesh Dadoda 05/09/2022



#2

Dichlorodifluoromethane

Concen: 0.319 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL038971.D

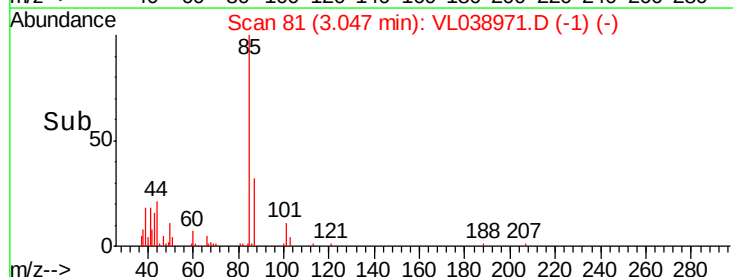
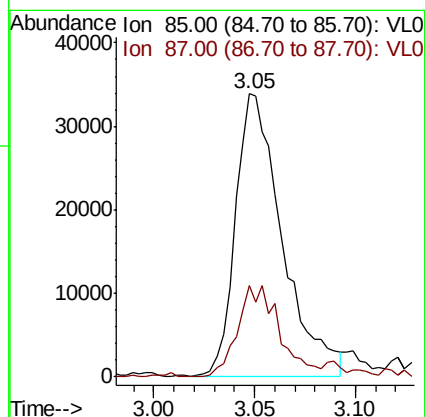
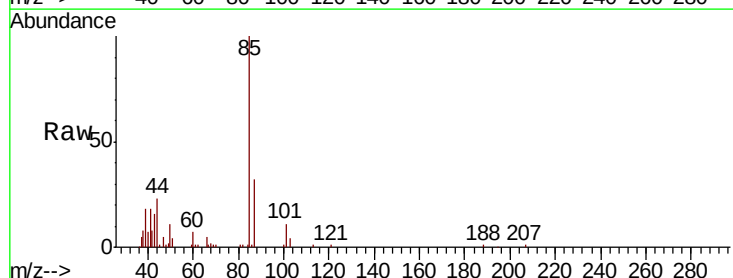
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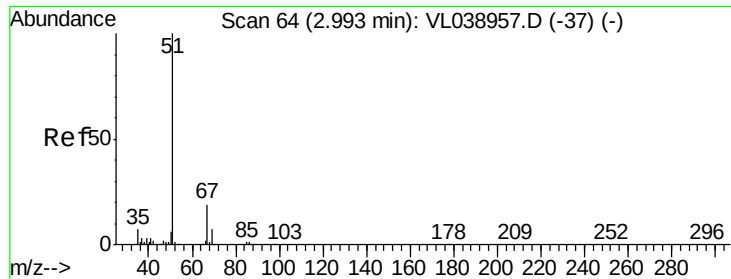
Tgt Ion: 85 Resp: 55239

Ion Ratio Lower Upper

85 100

87 32.1 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.301 ppbv m

RT: 2.99 Instrument: MSVOA\_1

Delta R.T. 0.00

Lab File: ClientSampleId: SV1

Acq: 5 May 2022 14:01

Tot Ion:

Ion Ratio

51 100

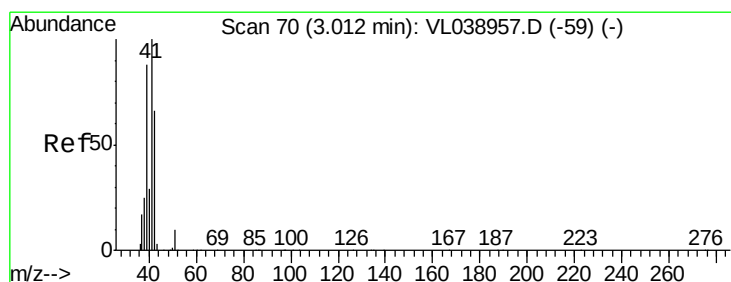
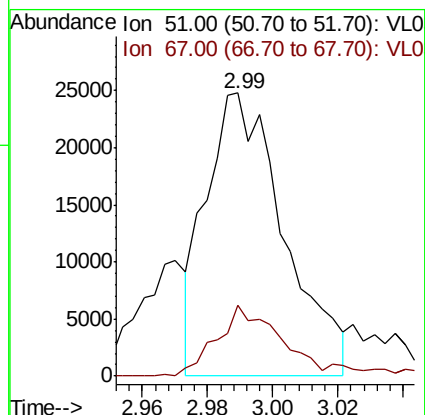
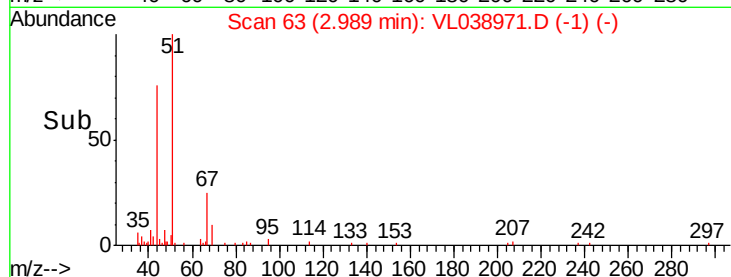
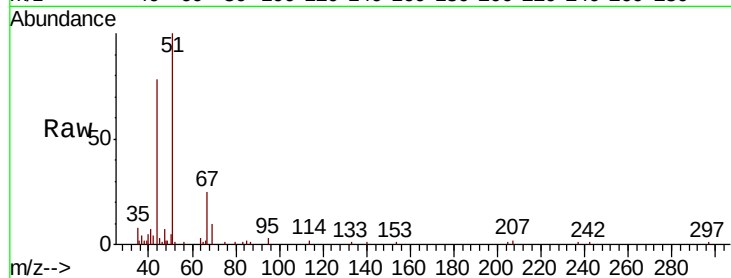
67 23.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/07/2022

Supervised By :Mahesh Dadoda 05/09/2022



#9

Propene

Concen: 0.995 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL038971.D

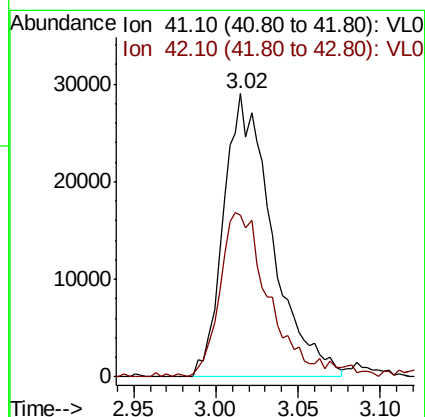
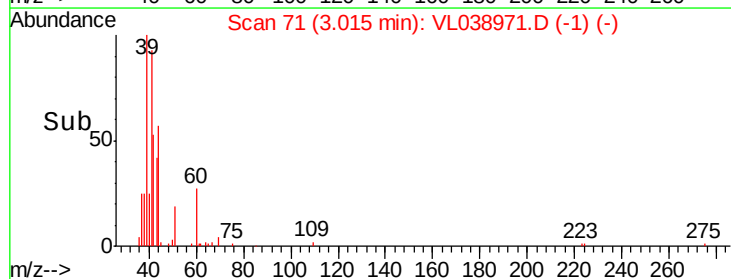
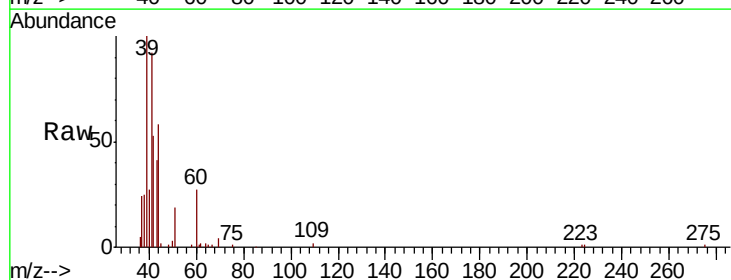
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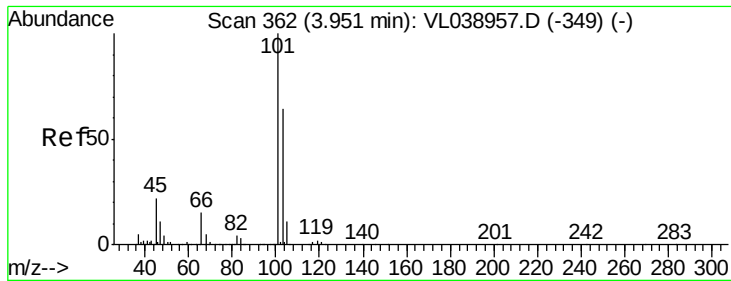
Tgt Ion: 41 Resp: 59528

Ion Ratio Lower Upper

41 100

42 60.5 58.3 87.5



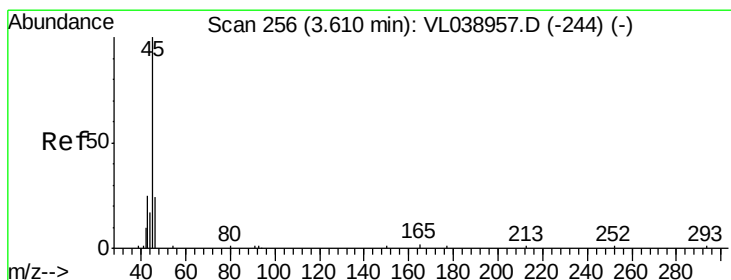
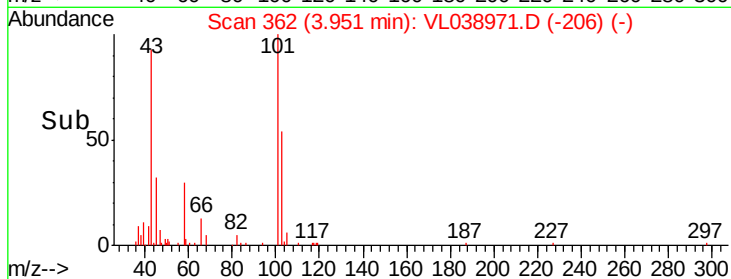
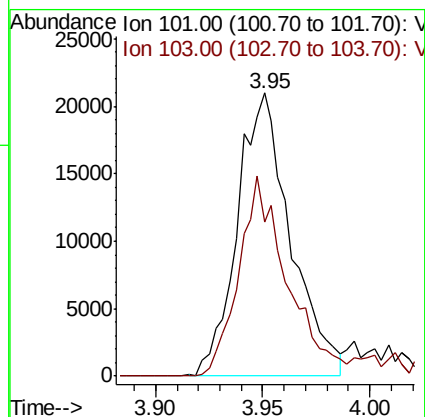
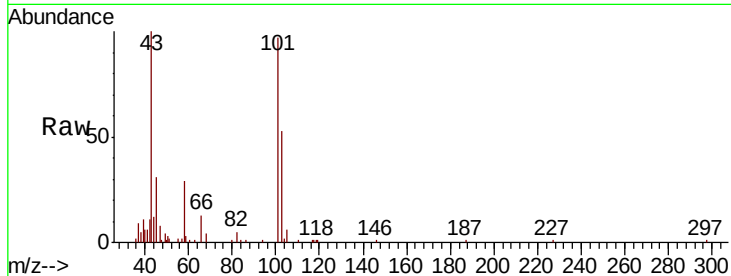


#11  
 Trichlorofluoromethane  
 Concen: 0.245 ppbv m  
 RT: 3.95  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 Acq: 5 May 2022 14:01

Tot Ion:1  
 Ion Rati  
 101 100  
 103 54.

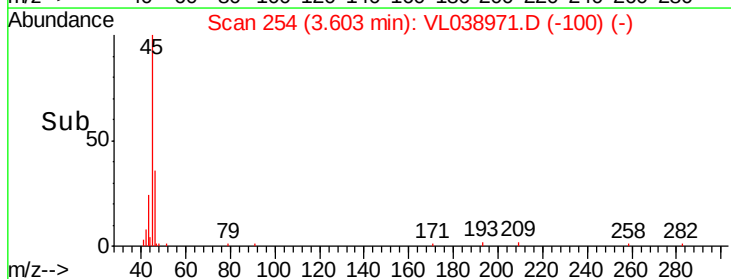
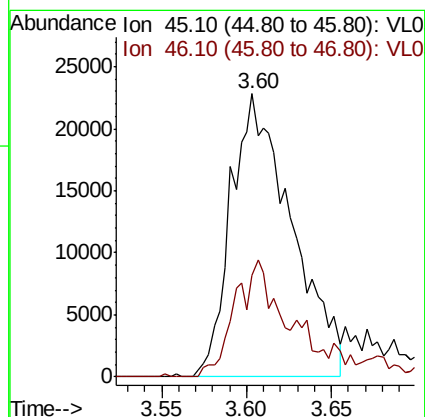
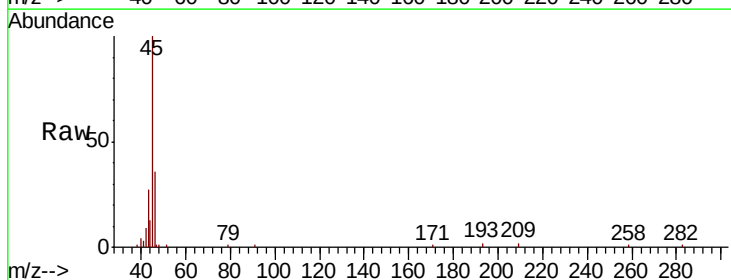
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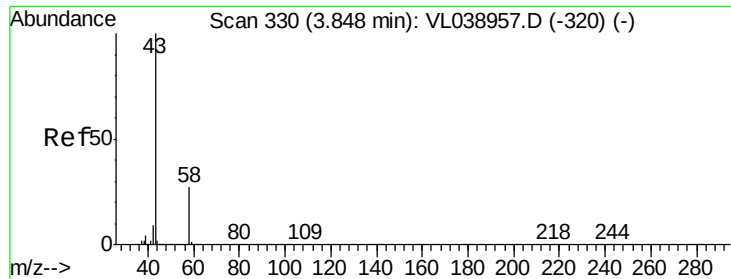
Reviewed By :Semsettin Yesilyurt 05/07/2022  
 Supervised By :Mahesh Dadoda 05/09/2022



#13  
 Ethanol  
 Concen: 12.128 ppbv m  
 RT: 3.60 min Scan# 254  
 Delta R.T. -0.01 min  
 Lab File: VL038971.D  
 Acq: 5 May 2022 14:01

Tgt Ion: 45 Resp: 56679  
 Ion Ratio Lower Upper  
 45 100  
 46 37.2 18.0 72.2



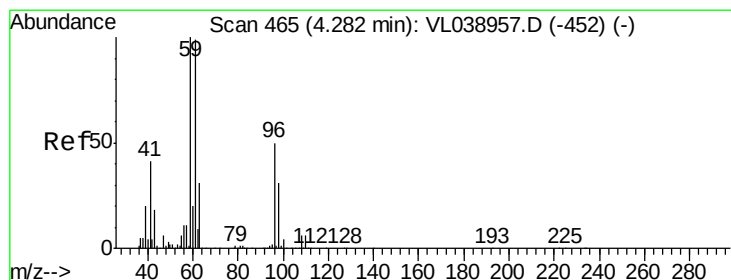
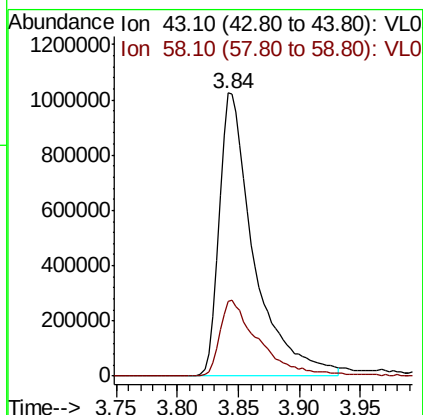
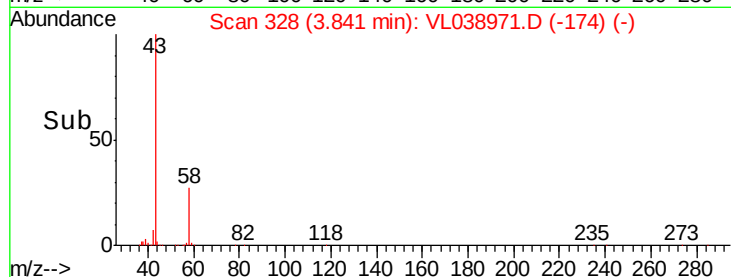
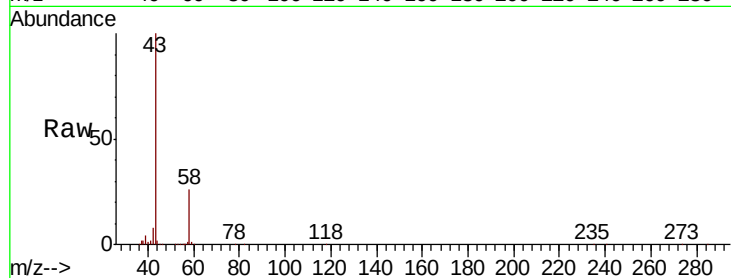


#15  
Acetone  
Concen: 19.676 ppbv  
RT: 3.84  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
SV1  
Acq: 5 May 2022 14:01

Tot Ion:  
Ion Ratio  
43 100  
58 31.

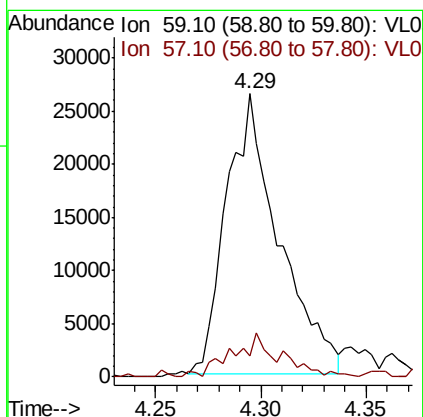
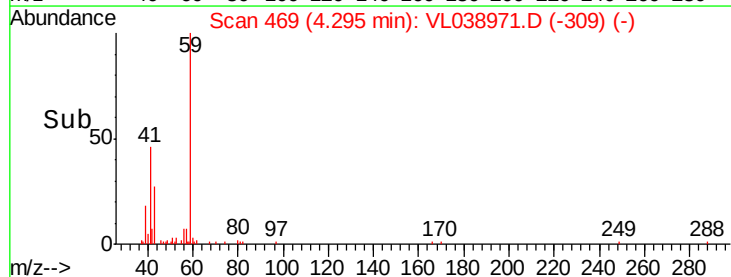
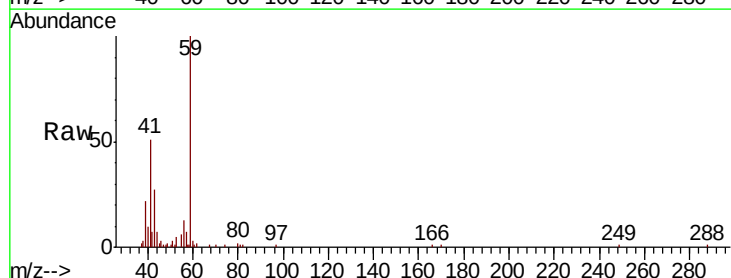
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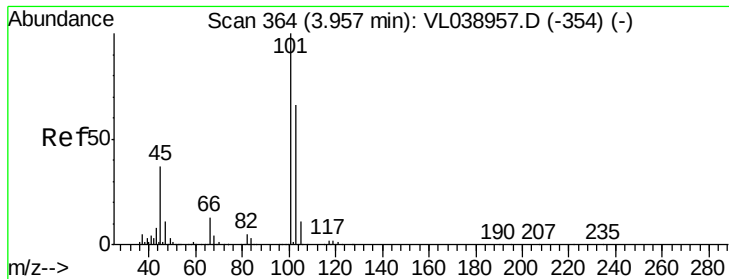
Reviewed By :Semsettin Yesilyurt 05/07/2022  
Supervised By :Mahesh Dadoda 05/09/2022



#17  
tert-Butyl alcohol  
Concen: 0.572 ppbv  
RT: 4.29 min Scan# 469  
Delta R.T. 0.01 min  
Lab File: VL038971.D  
Acq: 5 May 2022 14:01

Tgt Ion: 59 Resp: 45787  
Ion Ratio Lower Upper  
59 100  
57 13.8 9.2 13.8#





#19

Isopropyl Alcohol

Concen: 0.682 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 5 May 2022 14:01

Tot Ion:

Ion Ratio

45 100

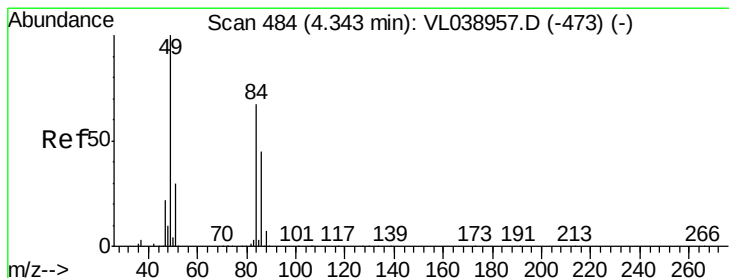
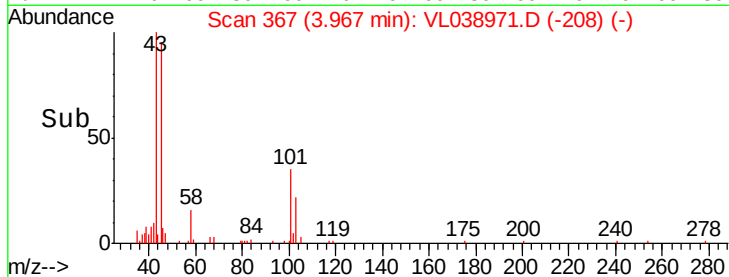
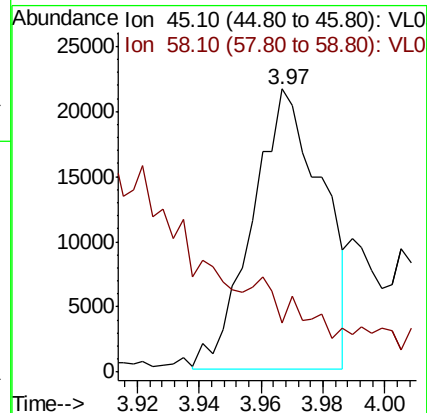
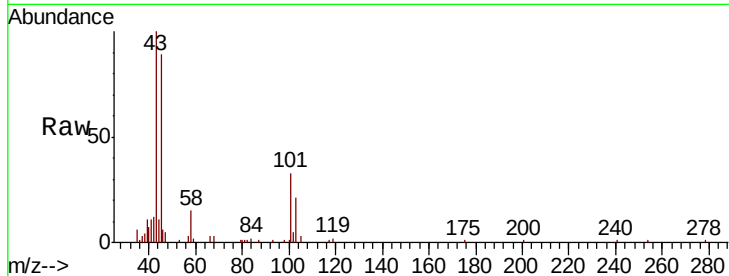
58 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2022

Supervised By :Mahesh Dadoda 05/09/2022



#20

Methylene Chloride

Concen: 21.003 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL038971.D

Acq: 5 May 2022 14:01

Tgt Ion: 84 Resp: 824611

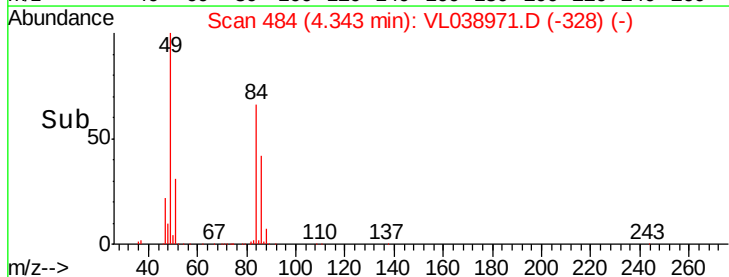
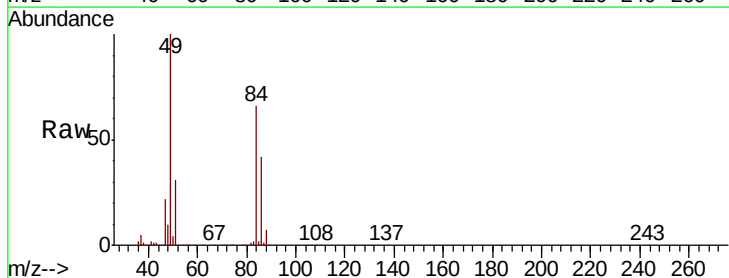
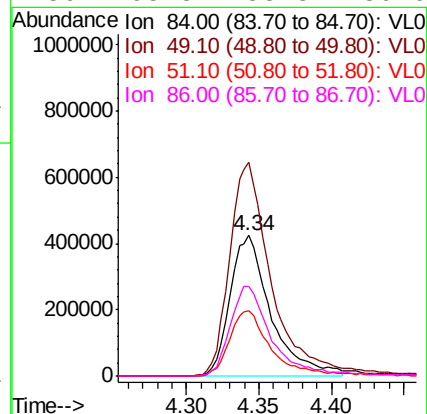
Ion Ratio Lower Upper

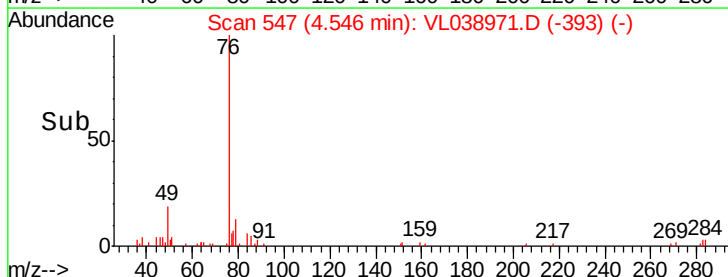
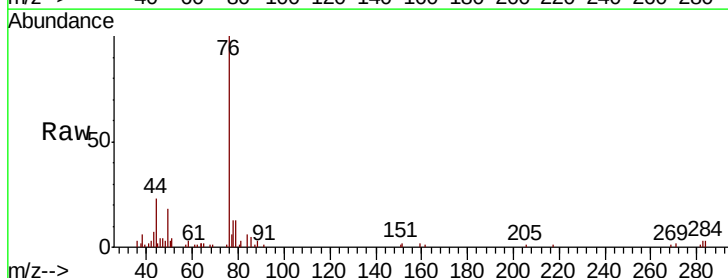
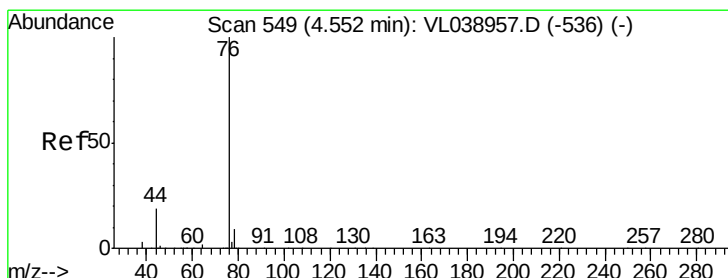
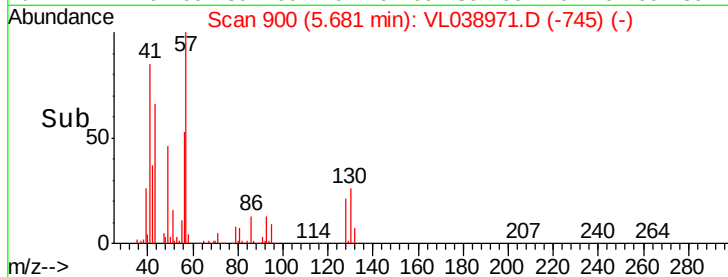
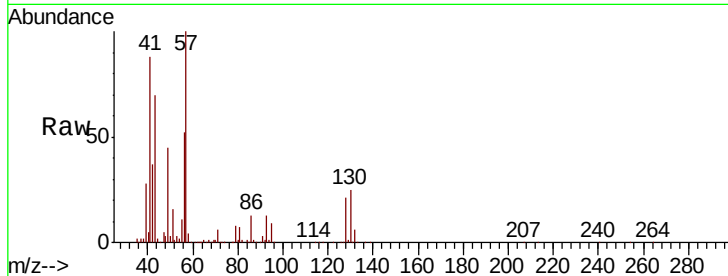
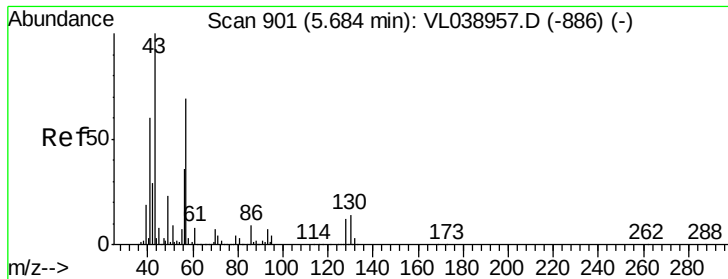
84 100

49 152.1 119.9 179.9

51 46.5 35.7 53.5

86 63.8 53.8 80.6



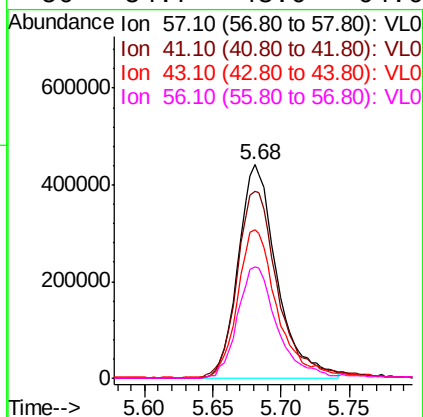


#26  
Hexane  
Concen: 7.860 ppbv  
RT: 5.68  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
SV1  
Acq: 5 May 2022 14:01

Tot Ion:  
Ion Ratio  
57 100  
41 95.  
43 71.  
56 54.7 43.0 64.6

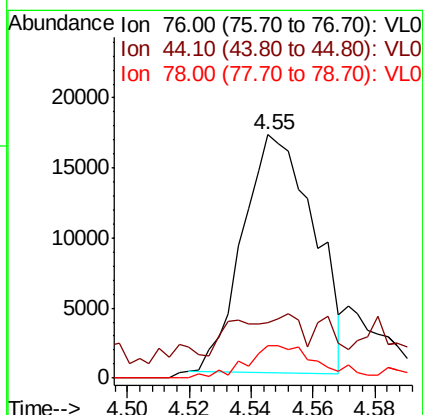
Manual Integrations  
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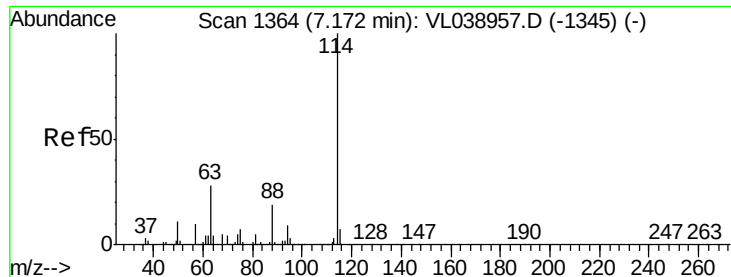


#27  
Carbon Disulfide  
Concen: 0.258 ppbv  
RT: 4.55 min Scan# 547  
Delta R.T. -0.01 min  
Lab File: VL038971.D  
Acq: 5 May 2022 14:01

Tgt Ion: 76 Resp: 27151  
Ion Ratio Lower Upper  
76 100  
44 27.6 15.3 22.9#  
78 16.1 8.2 12.2#





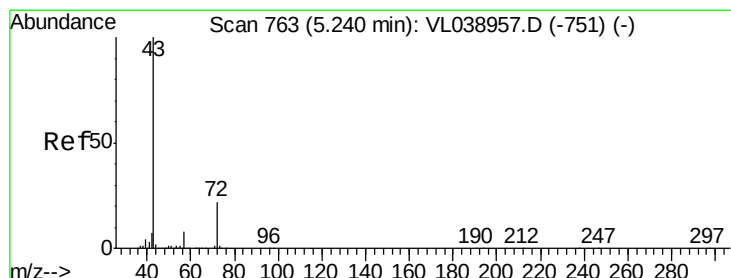
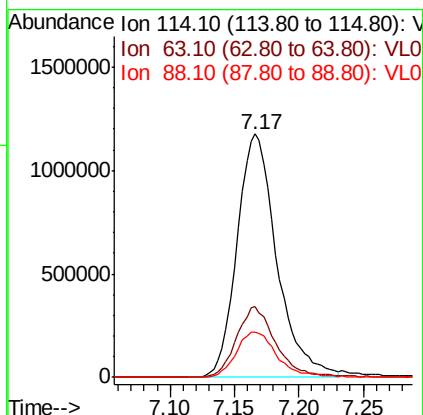
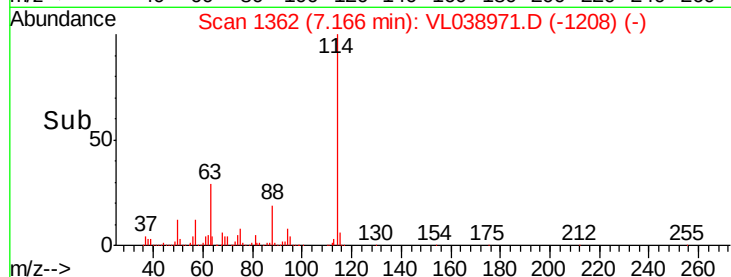
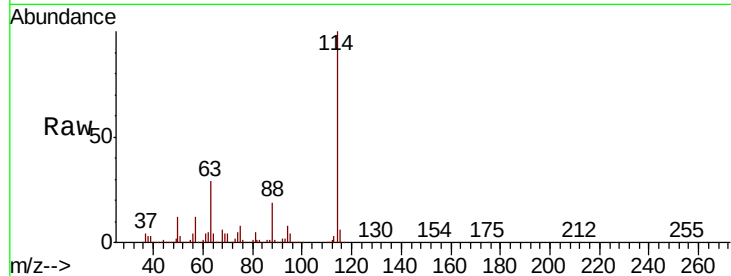


#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 5 May 2022 14:01

Tot Ion:1  
 Ion Rati  
 114 100  
 63 29.  
 88 19.

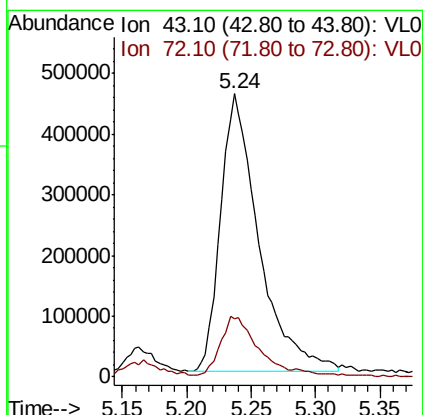
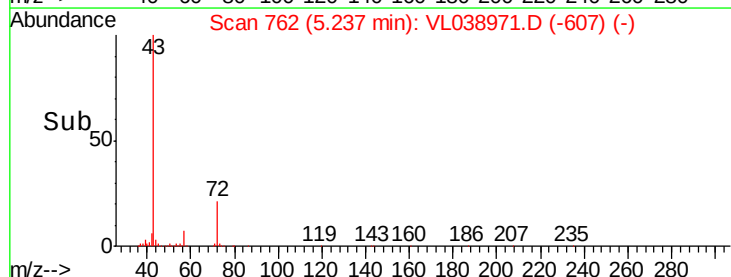
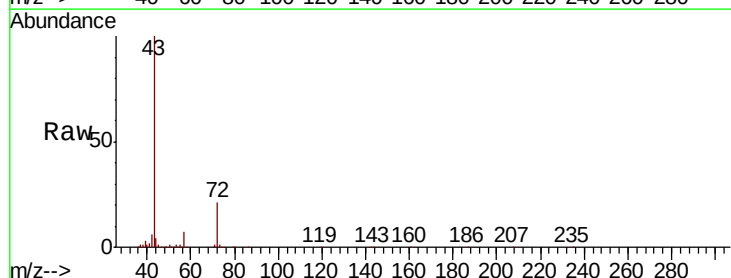
Manual Integrations  
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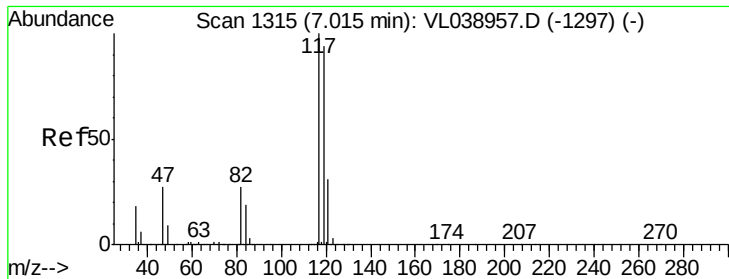
Reviewed By :Semsettin Yesilyurt 05/07/2022  
 Supervised By :Mahesh Dadoda 05/09/2022



#34  
 2-Butanone  
 Concen: 7.326 ppbv  
 RT: 5.24 min Scan# 762  
 Delta R.T. -0.00 min  
 Lab File: VL038971.D  
 Acq: 5 May 2022 14:01

Tgt Ion: 43 Resp: 944148  
 Ion Ratio Lower Upper  
 43 100  
 72 23.2 17.8 26.6





#35

Carbon Tetrachloride

Concen: 0.060 ppbv m

RT: 7.00 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 5 May 2022 14:01 SV1

Tot Ion:1

Ion Rati

117 100

119 66.

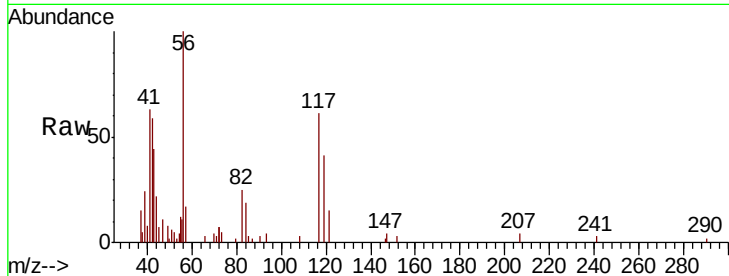
121 25.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/07/2022

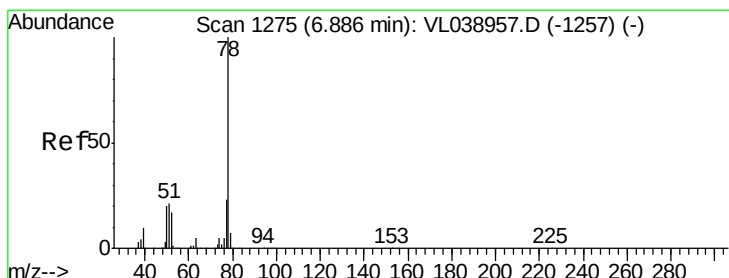
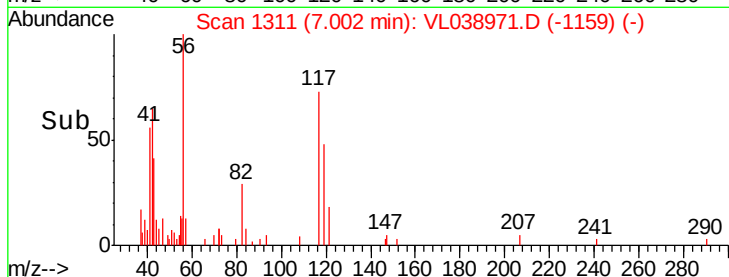
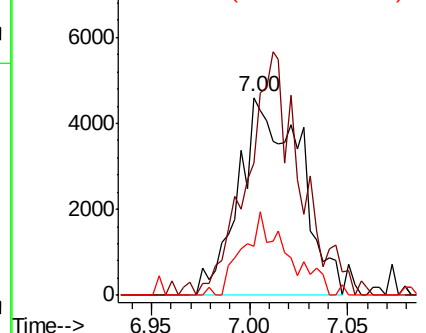
Supervised By :Mahesh Dadoda 05/09/2022



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.099 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VL038971.D

Acq: 5 May 2022 14:01

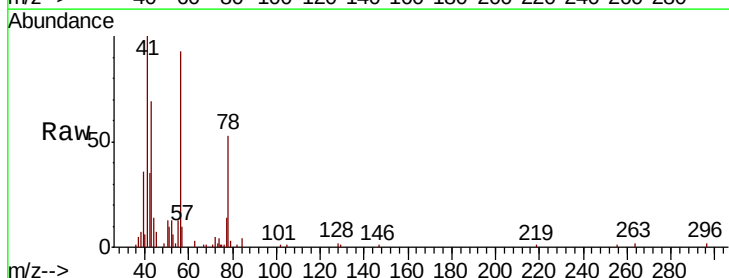
Tgt Ion: 78 Resp: 21485

Ion Ratio Lower Upper

78 100

77 25.1 18.6 28.0

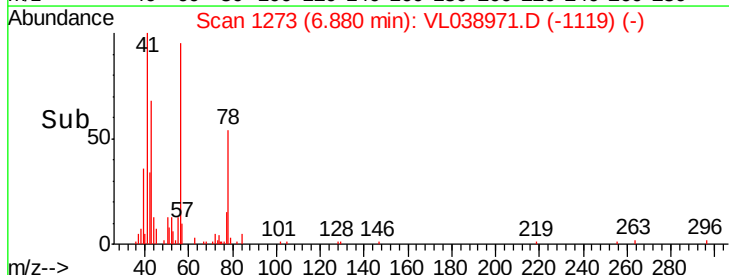
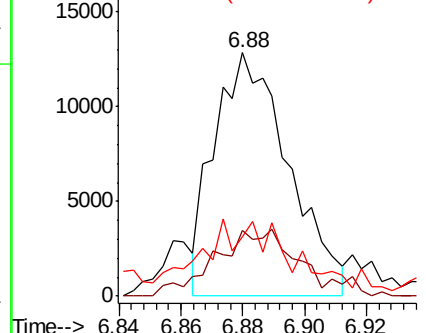
50 18.2 15.6 23.4

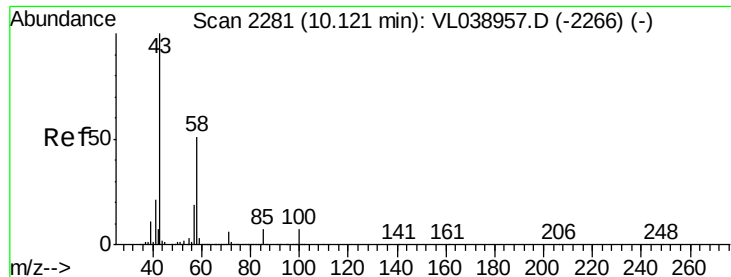


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



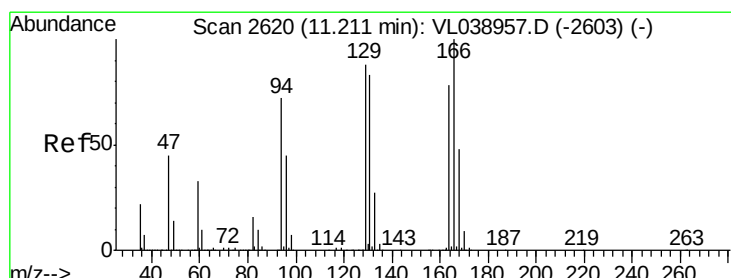
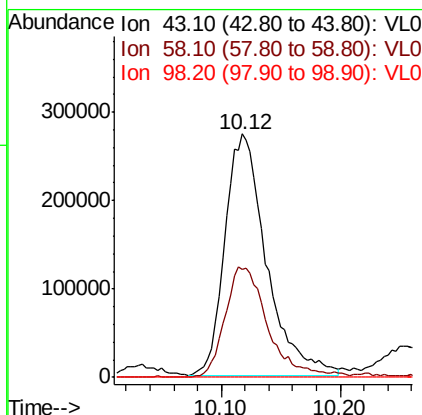
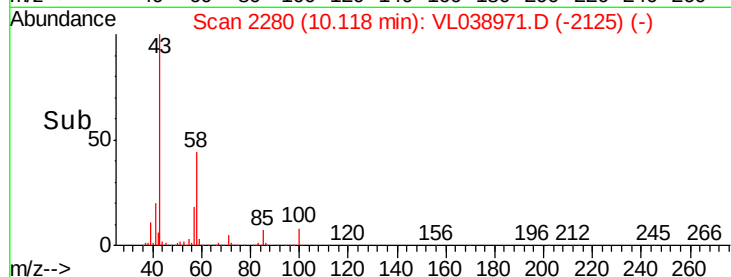
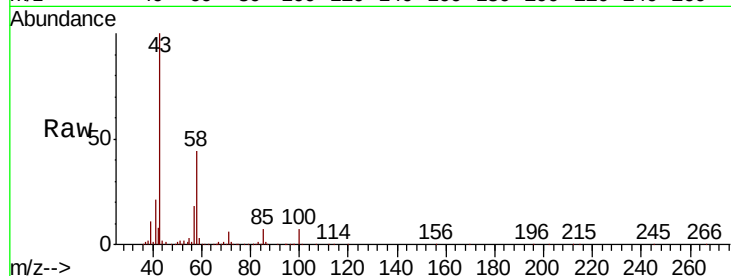


#51  
2-Hexanone  
Concen: 3.999 ppbv  
RT: 10.12 min  
Delta R.T.: MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 5 May 2022 14:01

Tot Ion:  
Ion Ratio  
43 100  
58 48.  
98 0.

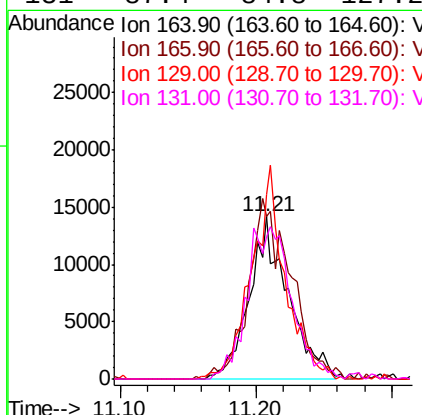
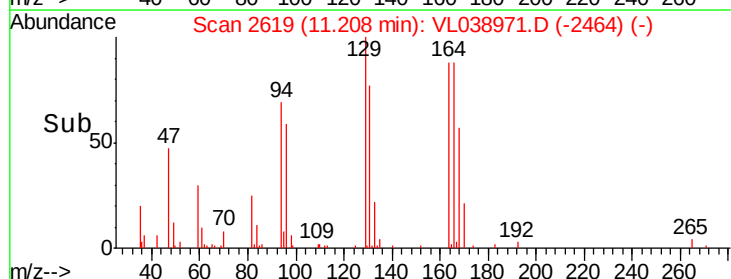
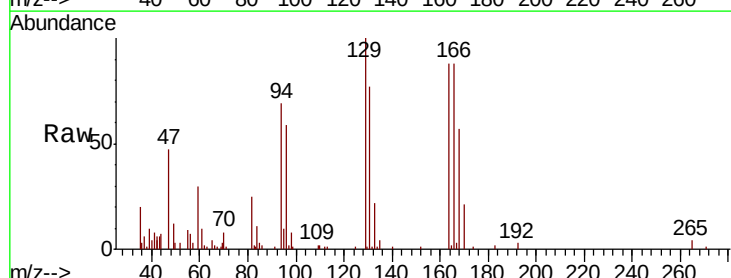
Manual Integrations  
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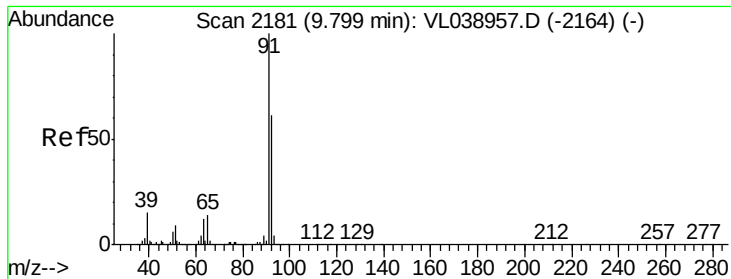
Reviewed By :Semsettin Yesilyurt 05/07/2022  
Supervised By :Mahesh Dadoda 05/09/2022



#52  
Tetrachloroethene  
Concen: 0.366 ppbv m  
RT: 11.21 min Scan# 2619  
Delta R.T.: -0.00 min  
Lab File: VL038971.D  
Acq: 5 May 2022 14:01

Tgt Ion:164 Resp: 28294  
Ion Ratio Lower Upper  
164 100  
166 100.0 102.5 153.7#  
129 113.6 90.1 135.1  
131 87.4 84.8 127.2





#53

Toluene

Concen: 0.291 ppbv m

RT: 9.79 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 5 May 2022 14:01 SV1

Tot Ion:

Ion Ratio

91 100

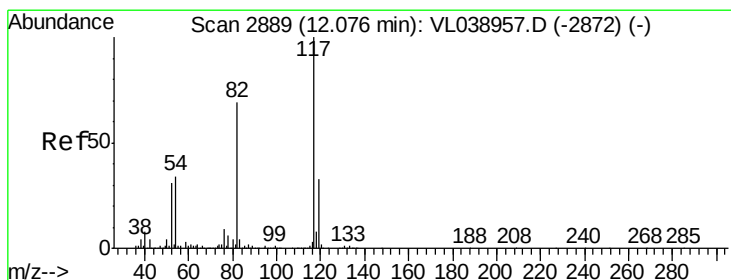
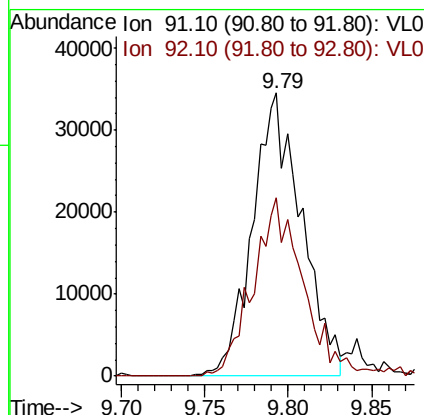
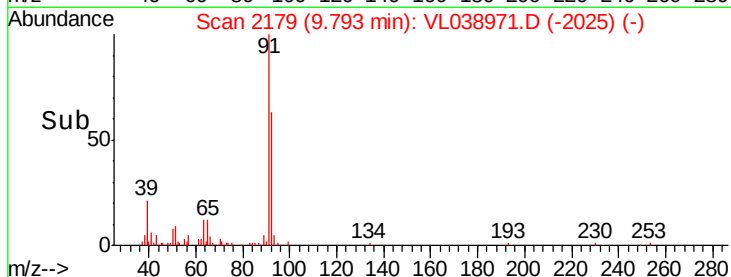
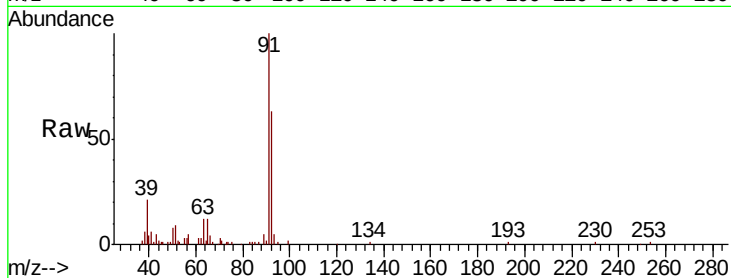
92 65.

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Reviewed By :Semsettin Yesilyurt 05/07/2022

Supervised By :Mahesh Dadoda 05/09/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.01 min

Lab File: VL038971.D

Acq: 5 May 2022 14:01

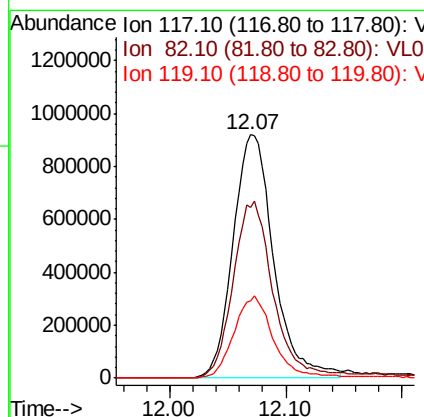
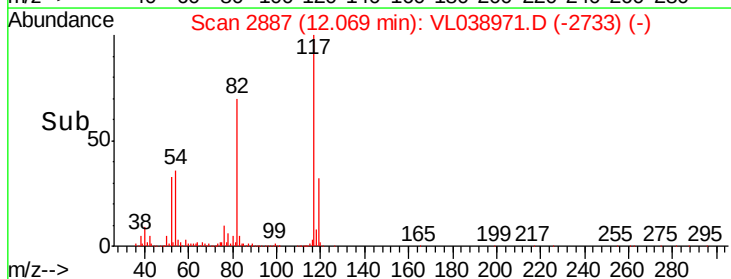
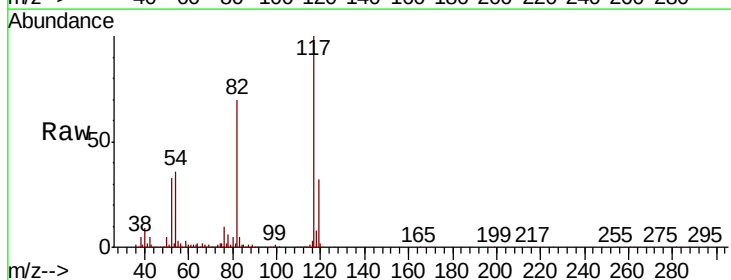
Tgt Ion:117 Resp: 2232176

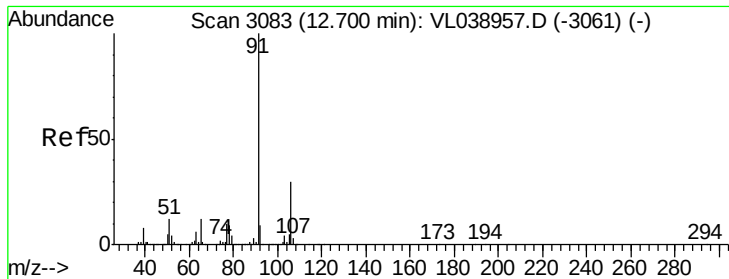
Ion Ratio Lower Upper

117 100

82 75.3 57.0 85.6

119 33.5 27.2 40.8



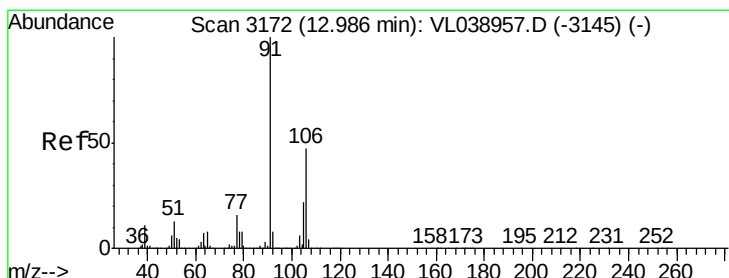
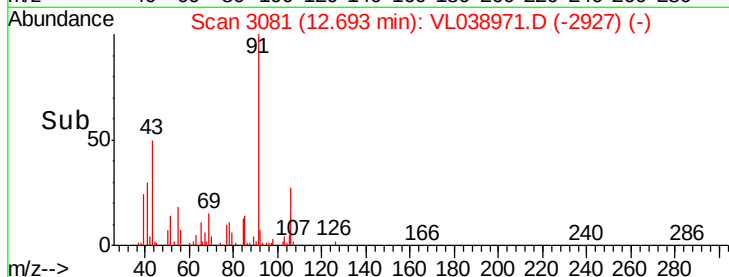
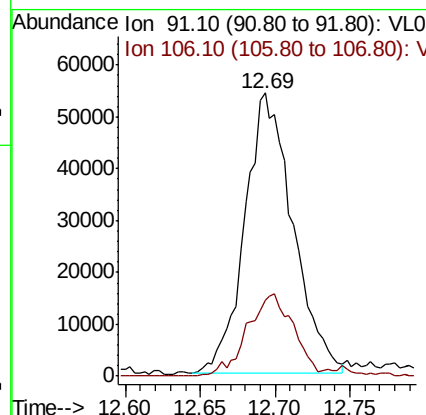
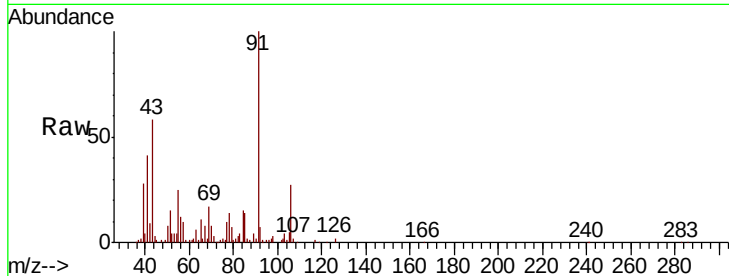


#58  
Ethyl Benzene  
Concen: 0.376 ppbv  
RT: 12.69  
Delta R.T. MSVOA\_L  
Lab File: ClientSampled :  
Acq: 5 May 2022 14:01

Tot Ion:  
Ion Ratio  
91 100  
106 27.

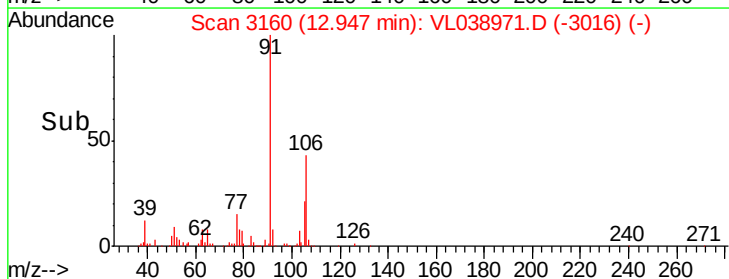
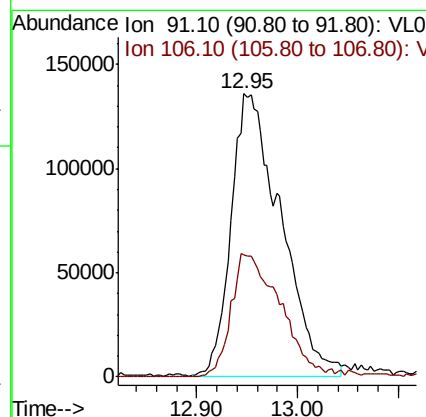
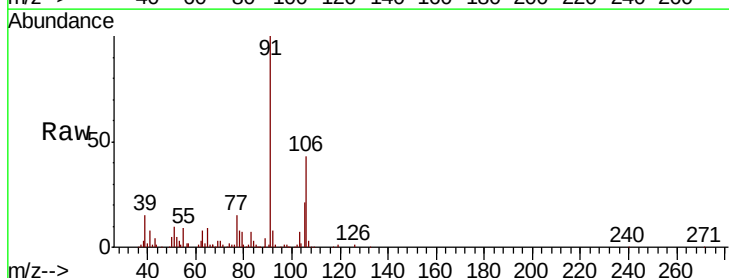
Manual Integrations  
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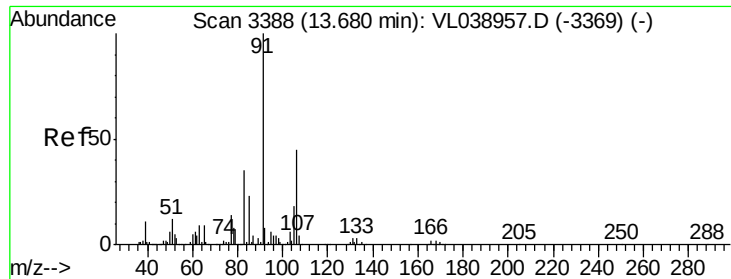
Reviewed By :Semsettin Yesilyurt 05/07/2022  
Supervised By :Mahesh Dadoda 05/09/2022



#59  
m/p-Xylene  
Concen: 1.701 ppbv m  
RT: 12.95 min Scan# 3160  
Delta R.T. -0.04 min  
Lab File: VL038971.D  
Acq: 5 May 2022 14:01

Tgt Ion: 91 Resp: 466424  
Ion Ratio Lower Upper  
91 100  
106 0.0 34.6 52.0#





#60

o-Xylene

Concen: 0.691 ppbv m

RT: 13.68

Delta R.T.

Lab File:

Acq: 5 May 2022 14:01

Instrument:

MSVOA\_L

ClientSampleId:

SV1

Tot Ion:

Ion Ratio

91 100

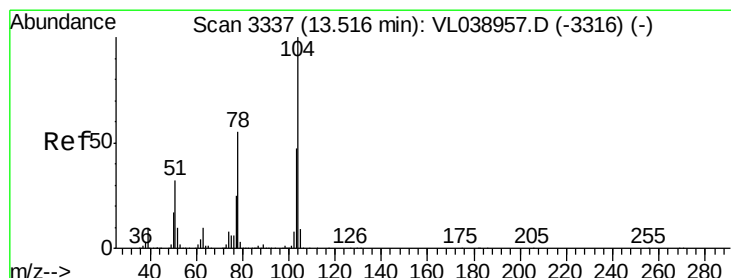
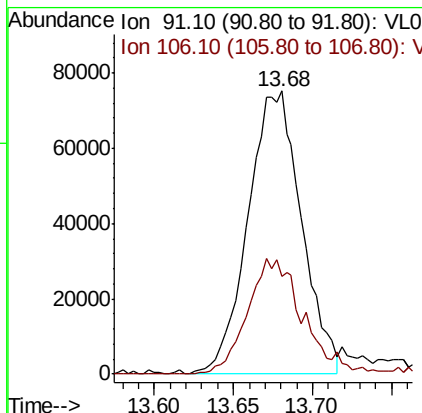
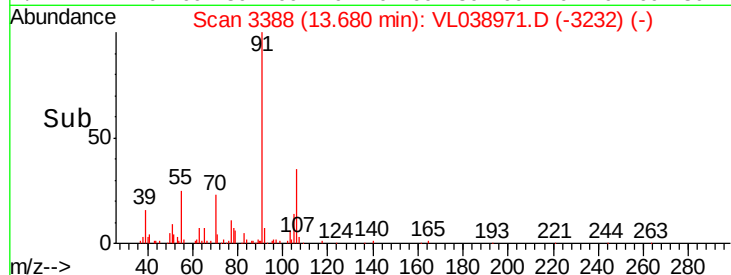
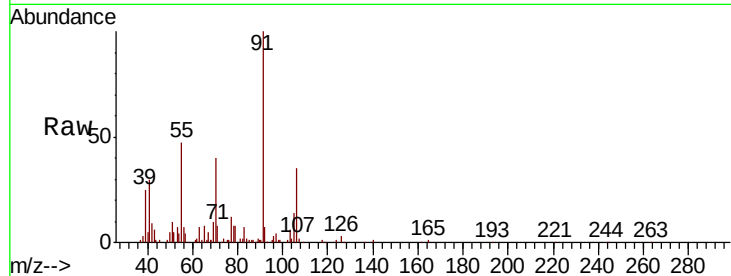
106 42.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/07/2022

Supervised By :Mahesh Dadoda 05/09/2022



#61

Styrene

Concen: 0.280 ppbv m

RT: 13.51 min Scan# 3334

Delta R.T. -0.01 min

Lab File: VL038971.D

Acq: 5 May 2022 14:01

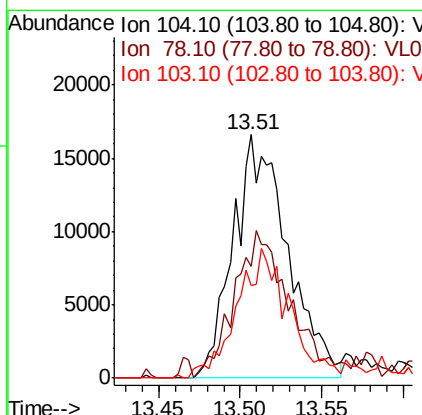
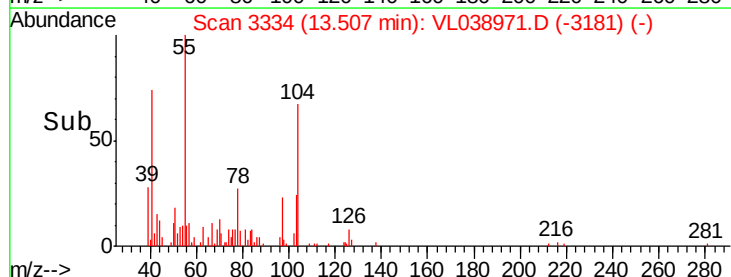
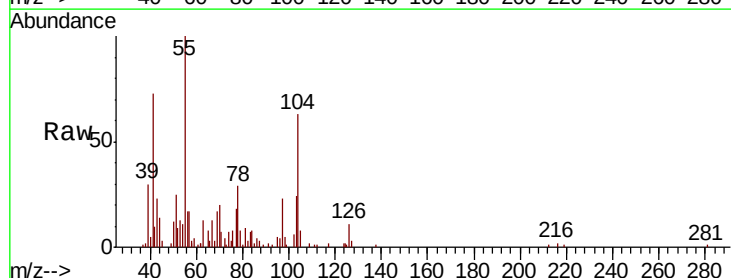
Tgt Ion:104 Resp: 38629

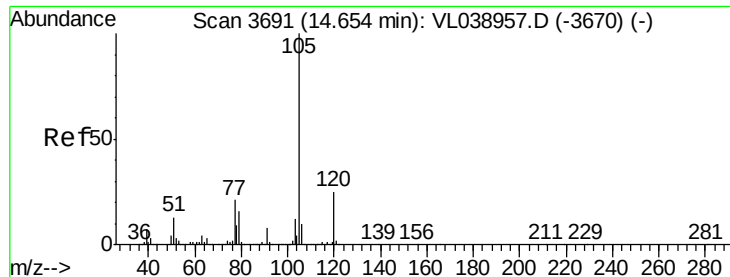
Ion Ratio Lower Upper

104 100

78 63.3 46.4 69.6

103 52.1 39.3 58.9





#62

Isopropylbenzene

Concen: 0.385 ppbv

RT: 14.65

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 5 May 2022 14:01

Tot Ion:1

Ion Rati

105 100

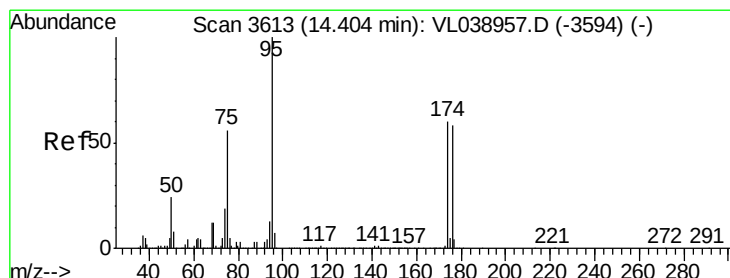
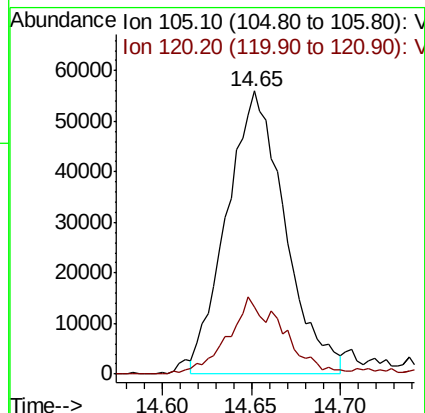
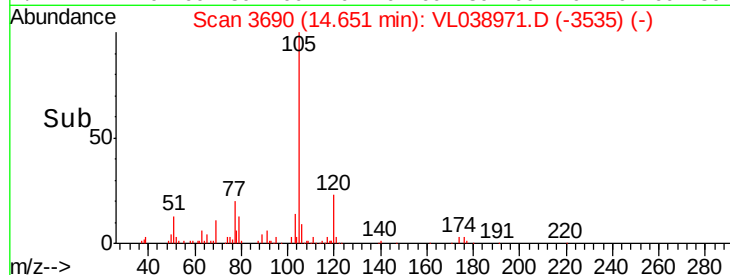
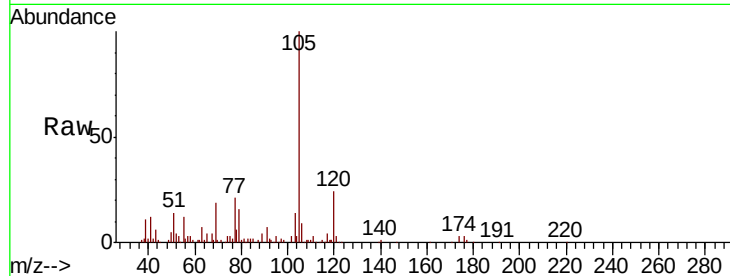
120 27.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2022

Supervised By :Mahesh Dadoda 05/09/2022



#68

1-Bromo-4-Fluorobenzene

Concen: 10.727 ppbv

RT: 14.40 min Scan# 3612

Delta R.T. -0.00 min

Lab File: VL038971.D

Acq: 5 May 2022 14:01

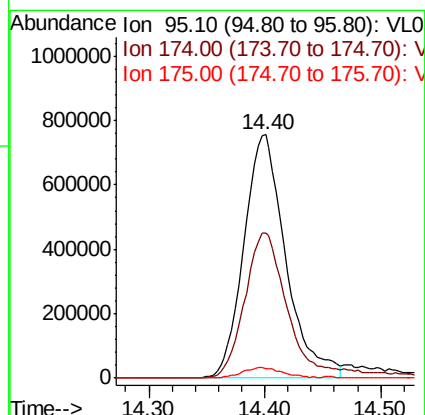
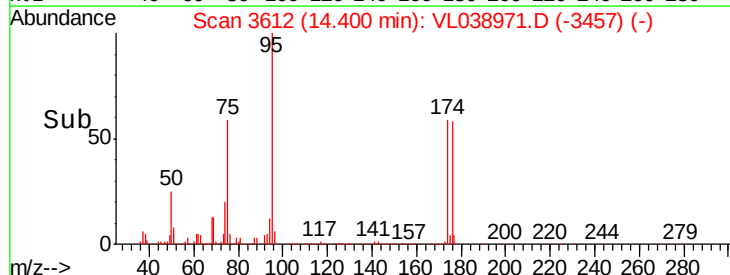
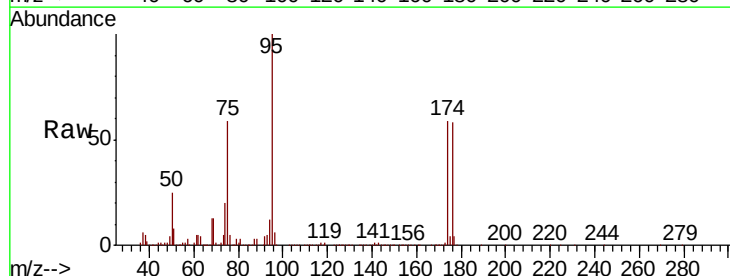
Tgt Ion: 95 Resp: 1896291

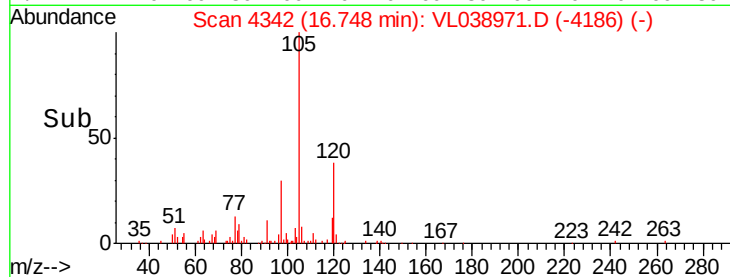
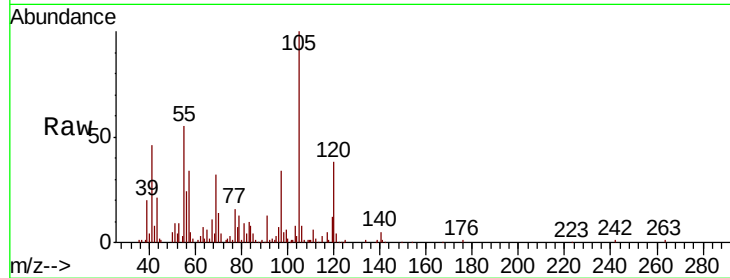
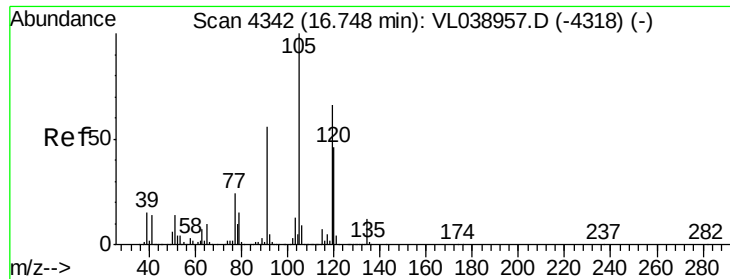
Ion Ratio Lower Upper

95 100

174 64.9 50.8 76.2

175 4.8 3.8 5.6





#74

1,2,4-Trimethylbenzene

Concen: 0.516 ppbv

RT: 16.75

Delta R.T: MSVOA\_L

Lab File: ClientSampleId :

Acq: 5 May 2022 14:01

Tot Ion:1

Ion Rati

105 100

120 38.

91 11.

77 15.1 19.2 28.8#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2022

Supervised By :Mahesh Dadoda 05/09/2022

