

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL061625\  
 Data File : VL042631.D  
 Acq On : 16 Jun 2025 16:20  
 Operator : SY/MD  
 Sample : Q2317-04 20X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 115-SG1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/17/2025  
 Supervised By :Mahesh Dadoda 06/17/2025

Quant Time: Jun 17 03:07:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.790  | 49    | 106783   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.962  | 114   | 296021   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.885  | 117   | 264603   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 195718   | 9.867    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 98.700%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 4) Chloromethane            | 1.534  | 50    | 2505     | 0.482    | ppbv   | 90       |
| 9) Propene                  | 1.486  | 41    | 1384     | 0.190    | ppbv   | 91       |
| 11) Trichlorofluoromethane  | 1.877  | 101   | 28889    | 2.366    | ppbv   | 99       |
| 13) Ethanol                 | 1.722  | 45    | 33372    | 38.470   | ppbv   | 94       |
| 15) Acetone                 | 1.839  | 43    | 16529    | 1.285    | ppbv   | 97       |
| 20) Methylene Chloride      | 2.062  | 84    | 2723     | 0.642    | ppbv # | 82       |
| 26) Hexane                  | 2.832  | 57    | 2656     | 0.166    | ppbv # | 45       |
| 34) 2-Butanone              | 2.564  | 43    | 4501     | 0.213    | ppbv   | 96       |
| 36) Benzene                 | 3.661  | 78    | 12355    | 0.424    | ppbv   | 98       |
| 38) Trichloroethene         | 4.548  | 130   | 3095m    | 0.250    | ppbv   |          |
| 41) Tetrahydrofuran         | 3.078  | 42    | 1675m    | 0.136    | ppbv   |          |
| 43) Methyl Methacrylate     | 4.894  | 69    | 13076m   | 1.156    | ppbv   |          |
| 53) Toluene                 | 6.936  | 91    | 16940m   | 0.503    | ppbv   |          |
| -----                       |        |       |          |          |        |          |

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

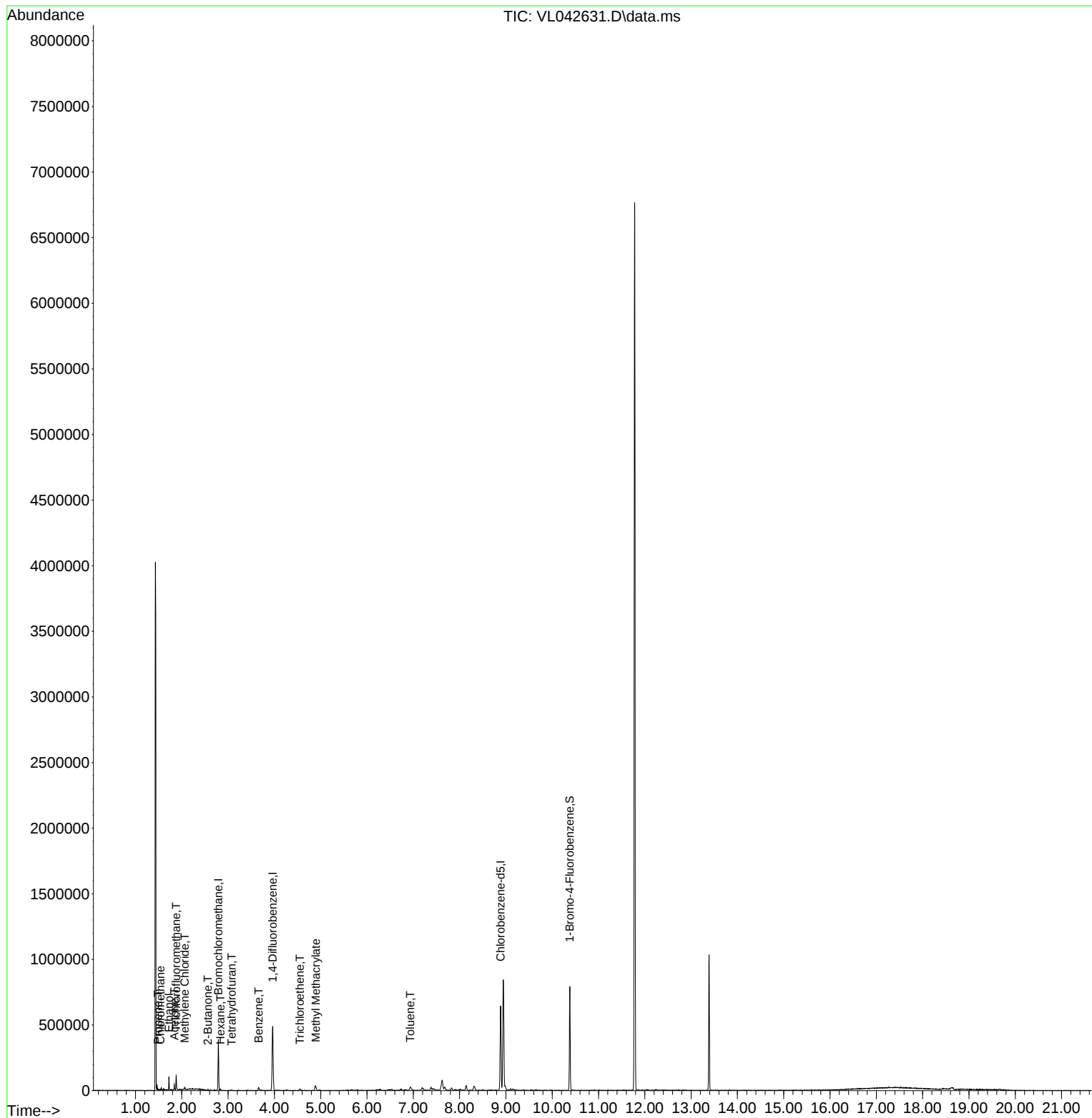
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL061625\  
Data File : VL042631.D  
Acq On : 16 Jun 2025 16:20  
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Sample : Q2317-04 20X  
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ALS Vial : 1 Sample Multiplier: 1

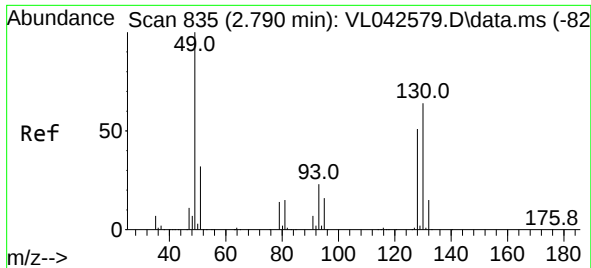
Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG1

Quant Time: Jun 17 03:07:33 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL052925AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri May 30 02:01:56 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

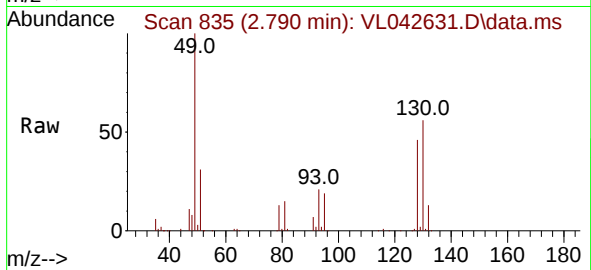
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL042631.D  
Acq: 16 Jun 2025 16:20

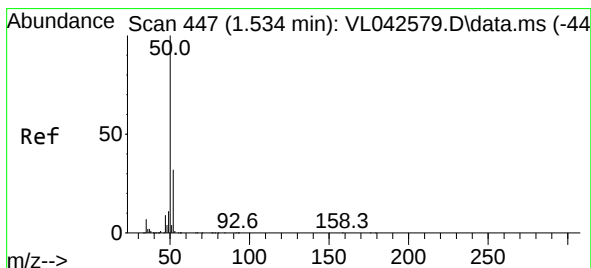
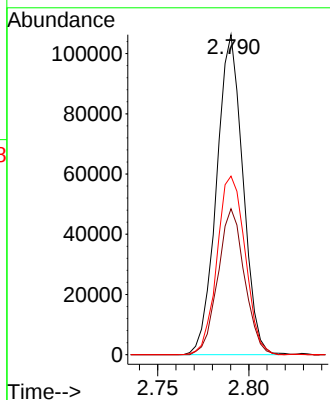
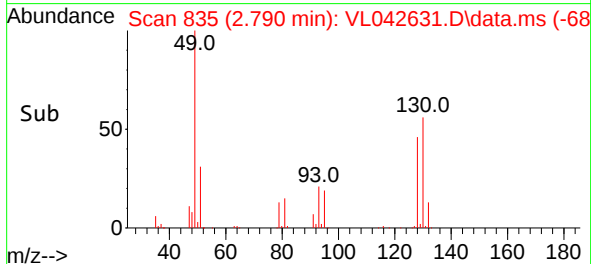
Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG1



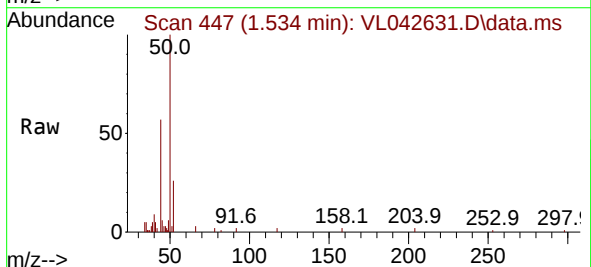
Tgt Ion: 49 Resp: 106783  
Ion Ratio Lower Upper  
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128 46.0 24.2 72.6  
130 59.6 30.4 91.2

Manual Integrations  
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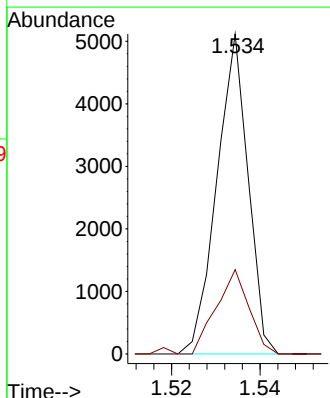
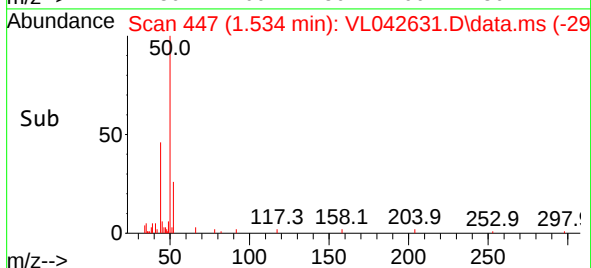
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025

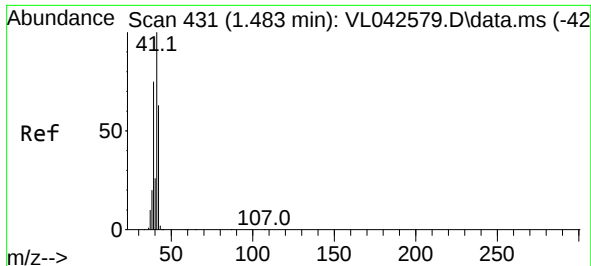


#4  
Chloromethane  
Concen: 0.482 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. -0.000 min  
Lab File: VL042631.D  
Acq: 16 Jun 2025 16:20



Tgt Ion: 50 Resp: 2505  
Ion Ratio Lower Upper  
50 100  
52 26.4 25.8 38.6





#9

Propene

Concen: 0.190 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042631.D

Acq: 16 Jun 2025 16:20

Instrument :

MSVOA\_L

ClientSampleId :

115-SG1

Tgt Ion: 41 Resp: 1384

Ion Ratio Lower Upper

41 100

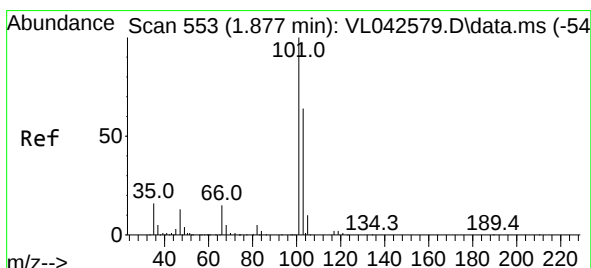
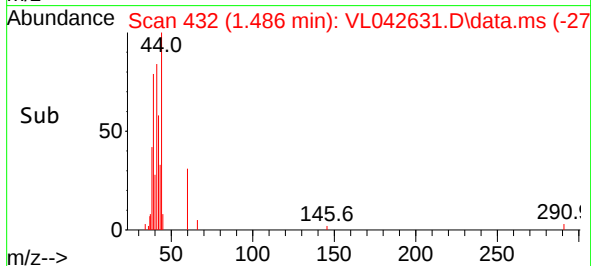
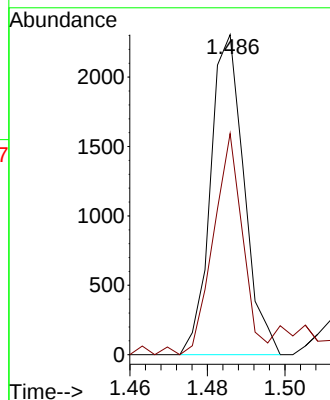
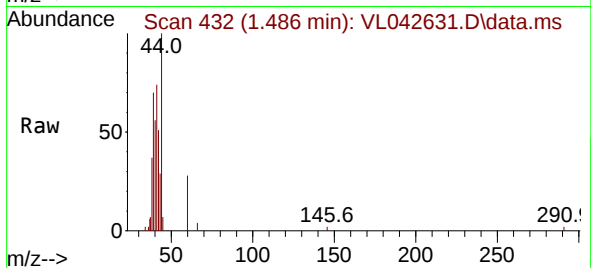
42 73.5 53.3 79.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/17/2025

Supervised By :Mahesh Dadoda 06/17/2025



#11

Trichlorofluoromethane

Concen: 2.366 ppbv

RT: 1.877 min Scan# 553

Delta R.T. -0.000 min

Lab File: VL042631.D

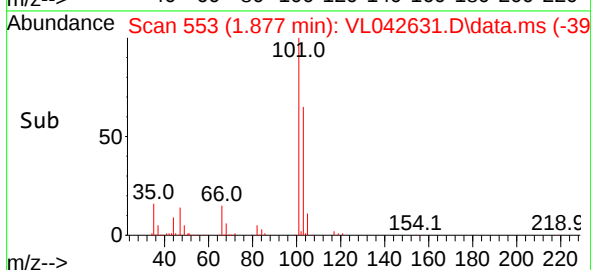
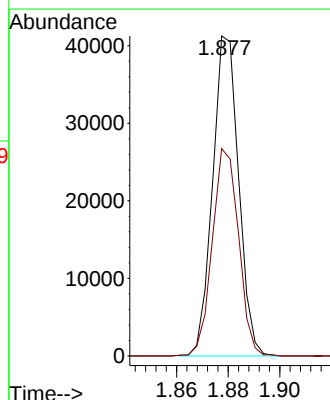
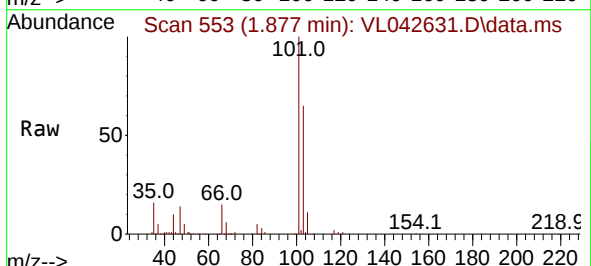
Acq: 16 Jun 2025 16:20

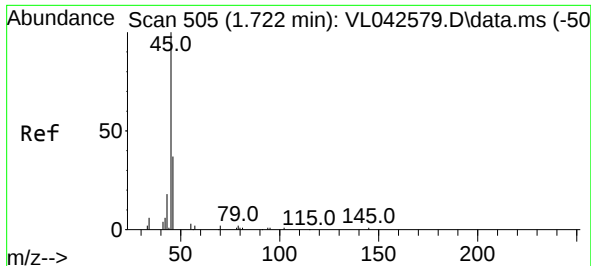
Tgt Ion:101 Resp: 28889

Ion Ratio Lower Upper

101 100

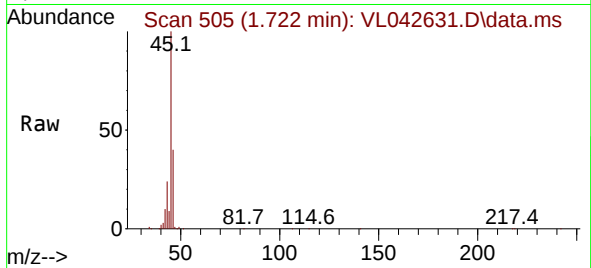
103 64.8 51.5 77.3





#13  
Ethanol  
Concen: 38.470 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. -0.000 min  
Lab File: VL042631.D  
Acq: 16 Jun 2025 16:20

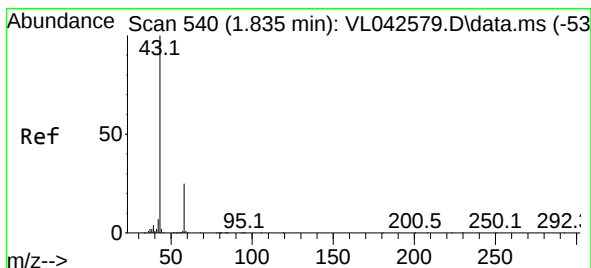
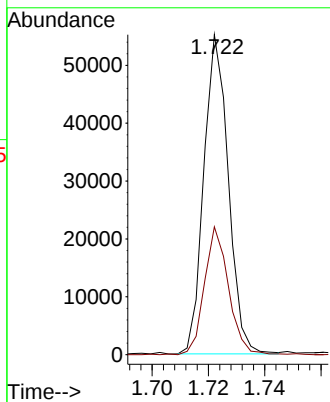
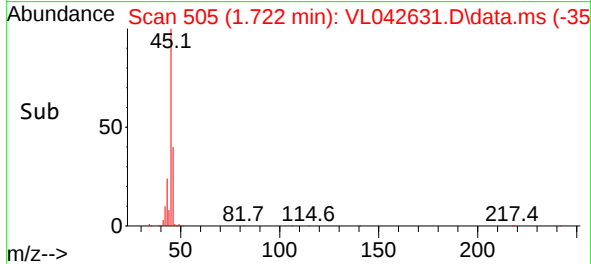
Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG1



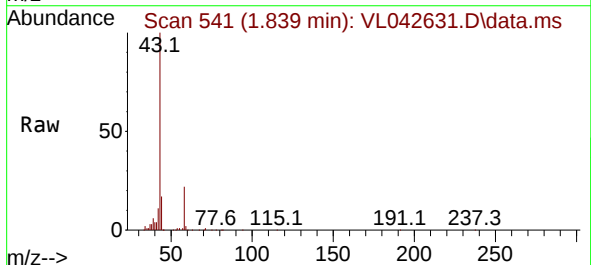
Tgt Ion: 45 Resp: 33372  
Ion Ratio Lower Upper  
45 100  
46 39.6 14.5 58.1

Manual Integrations  
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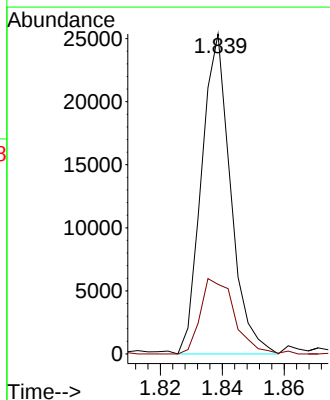
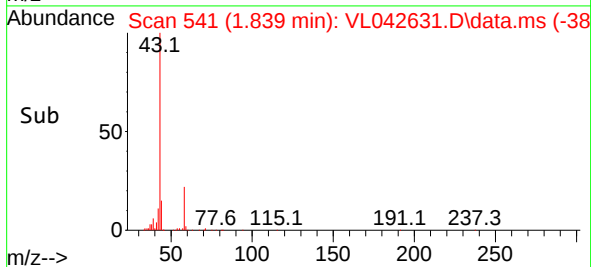
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025

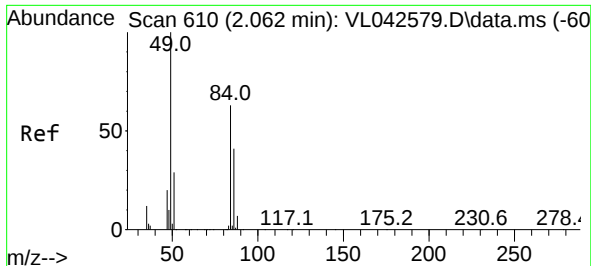


#15  
Acetone  
Concen: 1.285 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL042631.D  
Acq: 16 Jun 2025 16:20



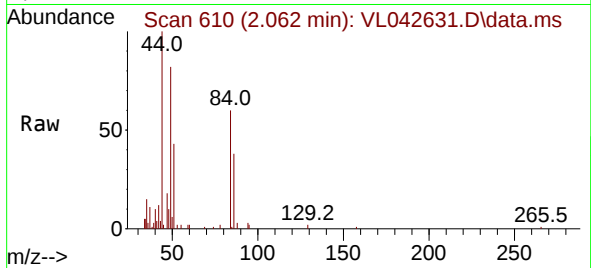
Tgt Ion: 43 Resp: 16529  
Ion Ratio Lower Upper  
43 100  
58 27.8 21.0 31.4





#20  
Methylene Chloride  
Concen: 0.642 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.000 min  
Lab File: VL042631.D  
Acq: 16 Jun 2025 16:20

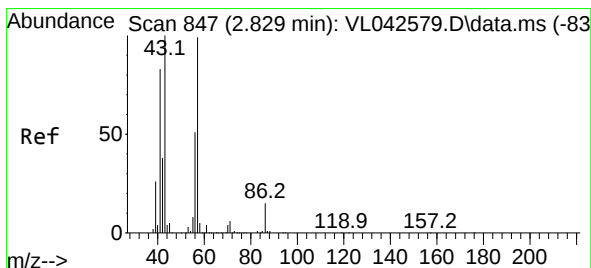
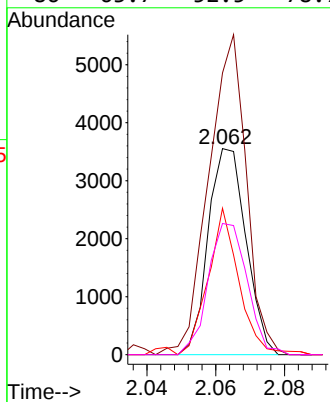
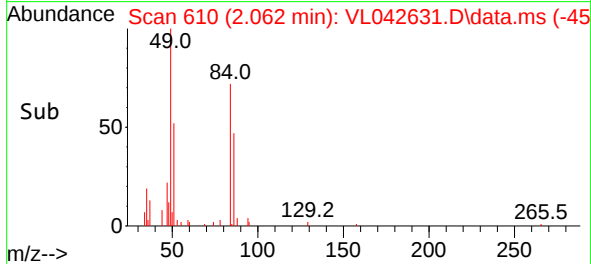
Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG1



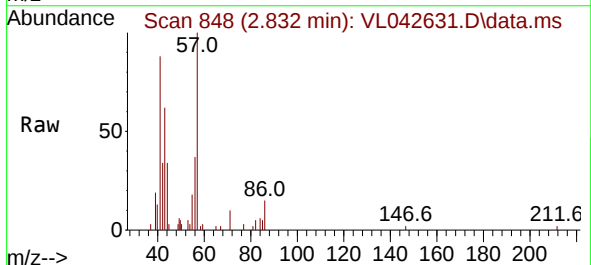
Tgt Ion: 84 Resp: 2720  
Ion Ratio Lower Upper  
84 100  
49 134.4 128.8 193.2  
51 71.1 38.6 57.8  
86 63.7 52.5 78.7

Manual Integrations  
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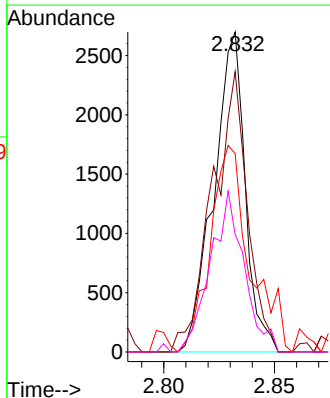
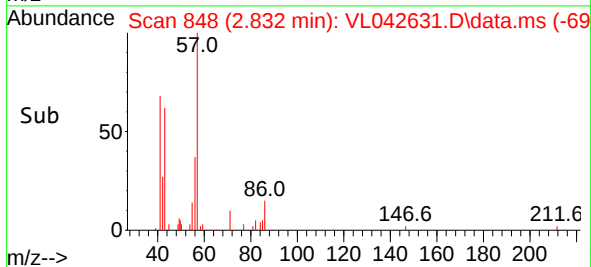
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025

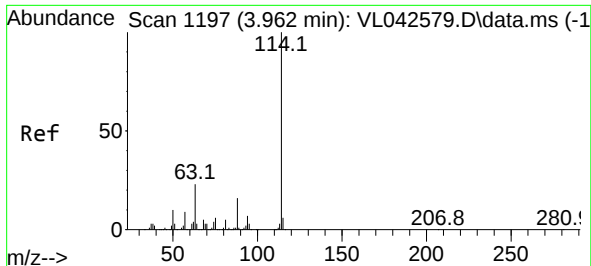


#26  
Hexane  
Concen: 0.166 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. 0.003 min  
Lab File: VL042631.D  
Acq: 16 Jun 2025 16:20



Tgt Ion: 57 Resp: 2656  
Ion Ratio Lower Upper  
57 100  
41 99.0 70.6 106.0  
43 88.3 181.1 271.7#  
56 54.4 42.2 63.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.000 min

Lab File: VL042631.D

Acq: 16 Jun 2025 16:20

Instrument :

MSVOA\_L

ClientSampleId :

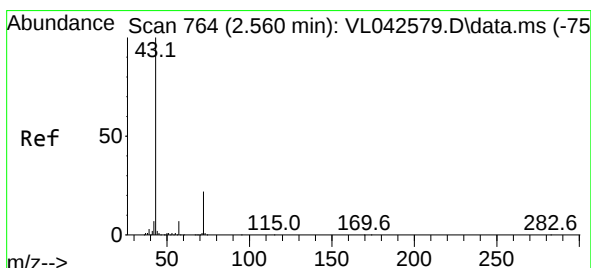
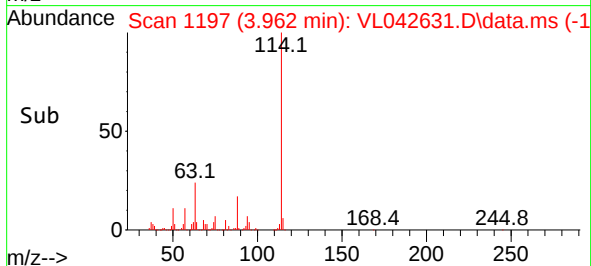
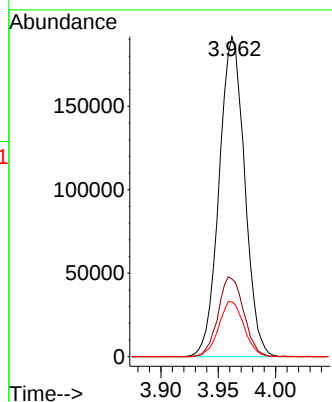
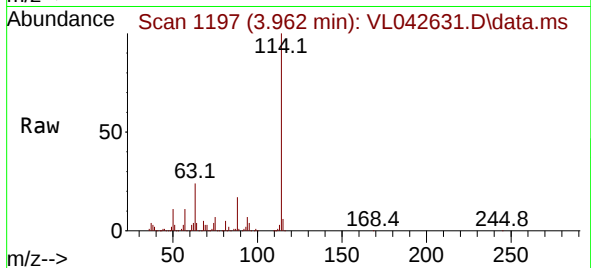
115-SG1

Tgt Ion:114 Resp: 29602  
 Ion Ratio Lower Upper  
 114 100  
 63 25.1 19.0 28.6  
 88 17.1 13.6 20.4

Manual Integrations

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 Supervised By :Mahesh Dadoda 06/17/2025



#34

2-Butanone

Concen: 0.213 ppbv

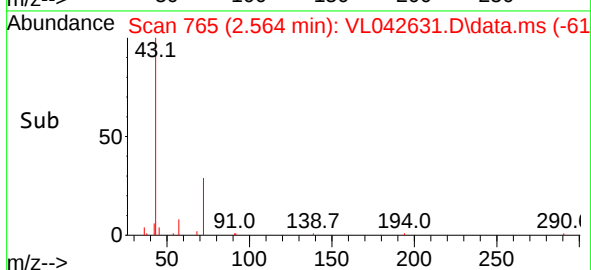
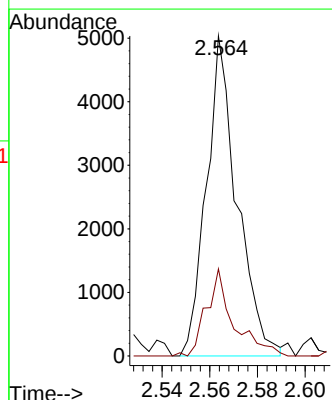
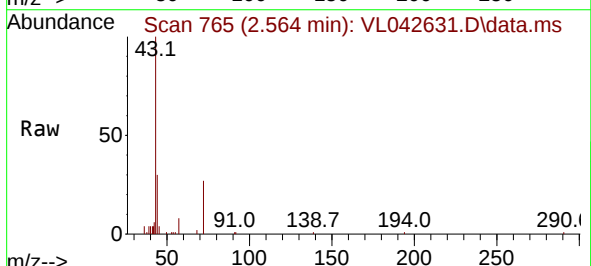
RT: 2.564 min Scan# 765

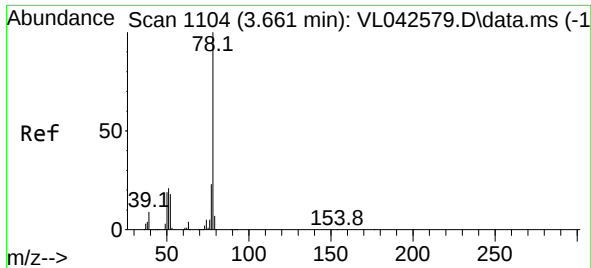
Delta R.T. 0.003 min

Lab File: VL042631.D

Acq: 16 Jun 2025 16:20

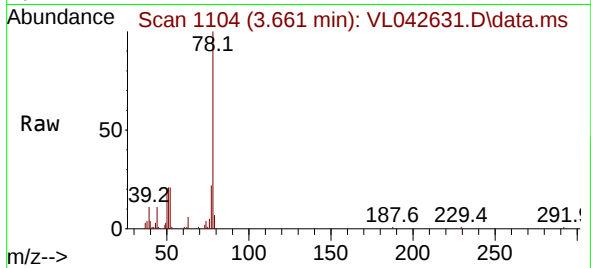
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 Ion Ratio Lower Upper  
 43 100  
 72 24.0 17.7 26.5





#36  
Benzene  
Concen: 0.424 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. -0.000 min  
Lab File: VL042631.D  
Acq: 16 Jun 2025 16:20

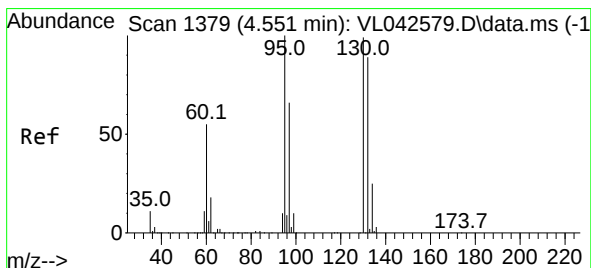
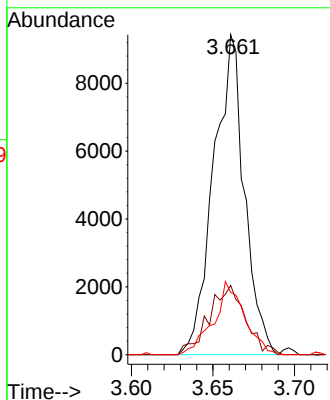
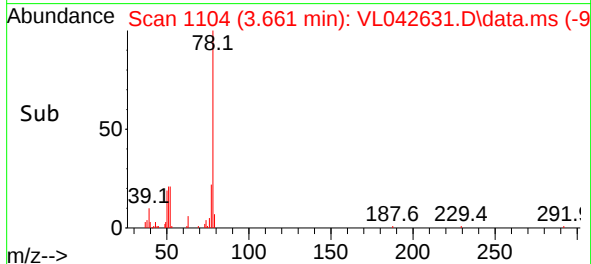
Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG1



Tgt Ion: 78 Resp: 1235  
Ion Ratio Lower Upper  
78 100  
77 21.6 18.2 27.2  
50 19.4 15.2 22.8

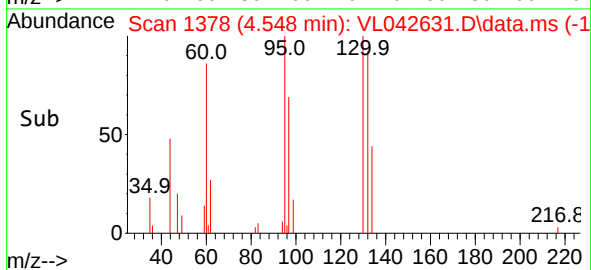
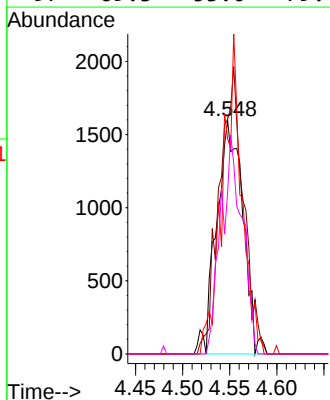
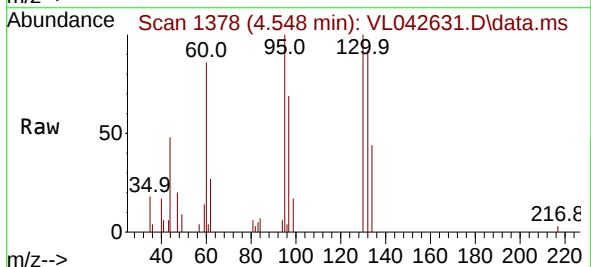
Manual Integrations  
APPROVED

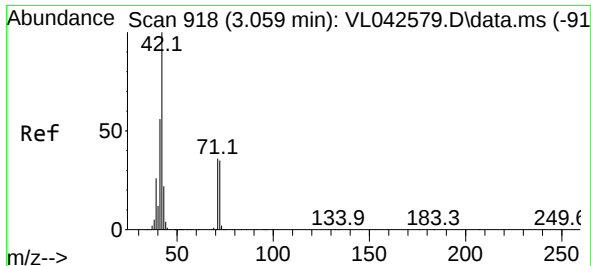
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025



#38  
Trichloroethene  
Concen: 0.250 ppbv m  
RT: 4.548 min Scan# 1378  
Delta R.T. -0.003 min  
Lab File: VL042631.D  
Acq: 16 Jun 2025 16:20

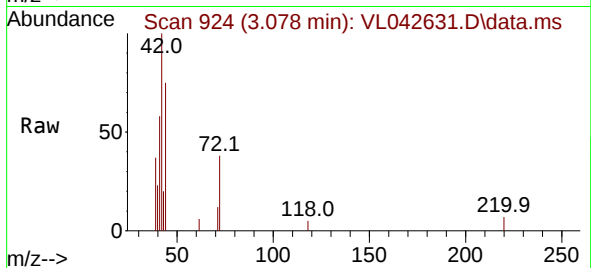
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Ion Ratio Lower Upper  
130 100  
95 100.5 80.6 121.0  
132 92.1 71.8 107.6  
97 69.3 53.0 79.4





#41  
Tetrahydrofuran  
Concen: 0.136 ppbv m  
RT: 3.078 min Scan# 918  
Delta R.T. 0.019 min  
Lab File: VL042631.D  
Acq: 16 Jun 2025 16:20

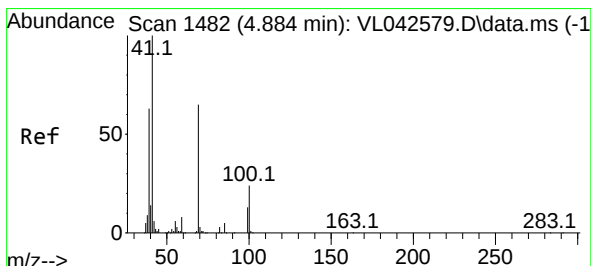
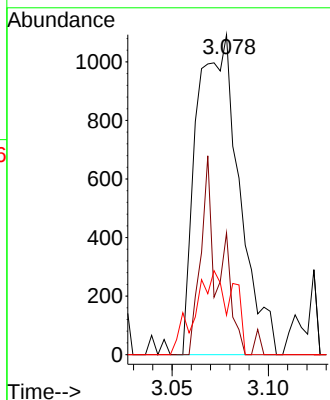
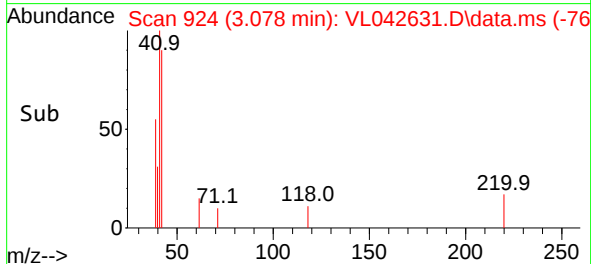
Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG1



Tgt Ion: 42 Resp: 1679  
Ion Ratio Lower Upper  
42 100  
72 27.7 28.9 43.3  
71 23.3 28.5 42.7

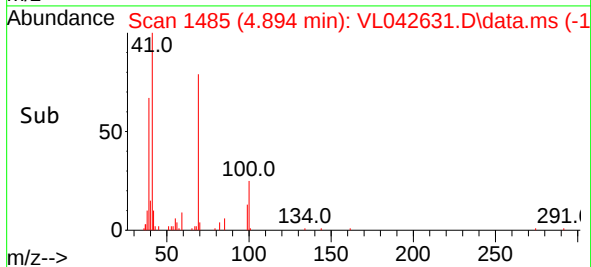
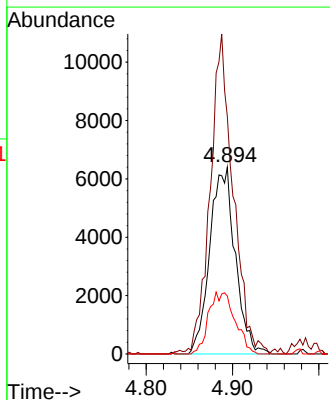
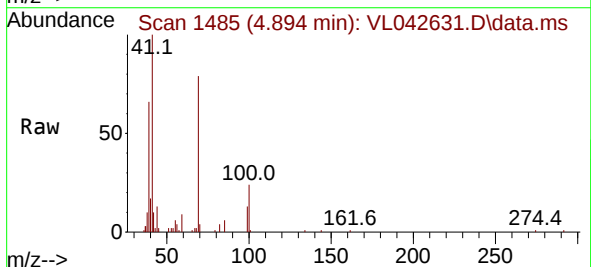
Manual Integrations  
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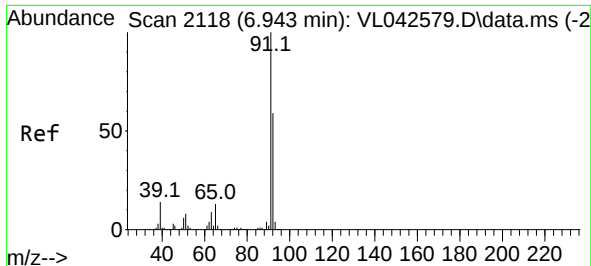
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025



#43  
Methyl Methacrylate  
Concen: 1.156 ppbv m  
RT: 4.894 min Scan# 1485  
Delta R.T. 0.010 min  
Lab File: VL042631.D  
Acq: 16 Jun 2025 16:20

Tgt Ion: 69 Resp: 13076  
Ion Ratio Lower Upper  
69 100  
41 155.8 124.6 187.0  
100 34.5 29.9 44.9





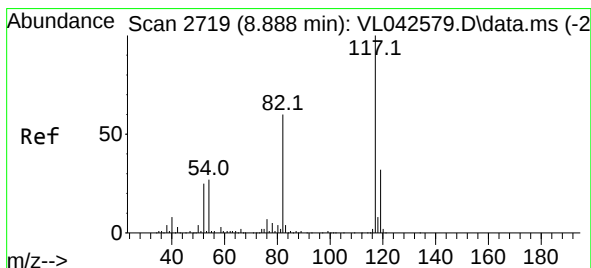
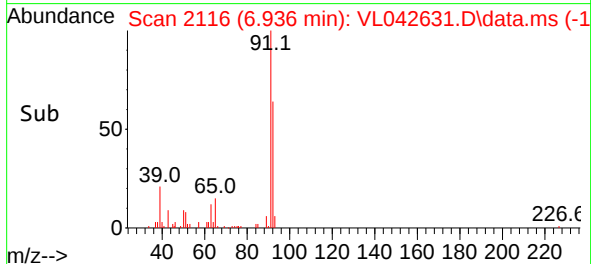
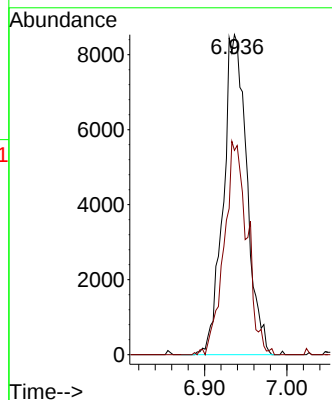
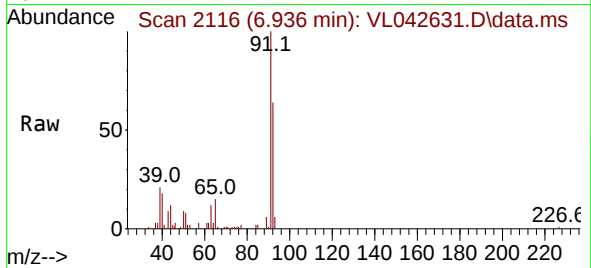
#53  
Toluene  
Concen: 0.503 ppbv m  
RT: 6.936 min Scan# 2118  
Delta R.T. -0.006 min  
Lab File: VL042631.D  
Acq: 16 Jun 2025 16:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG1

Tgt Ion: 91 Resp: 16940  
Ion Ratio Lower Upper  
91 100  
92 0.0 48.2 72.4

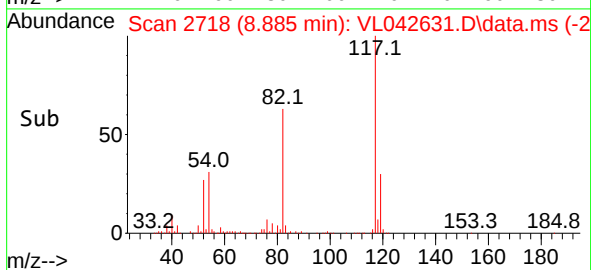
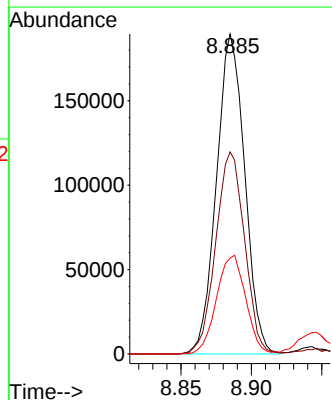
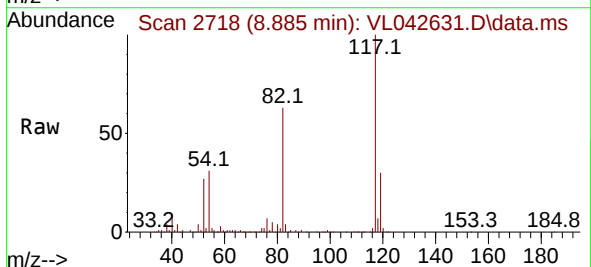
Manual Integrations  
APPROVED

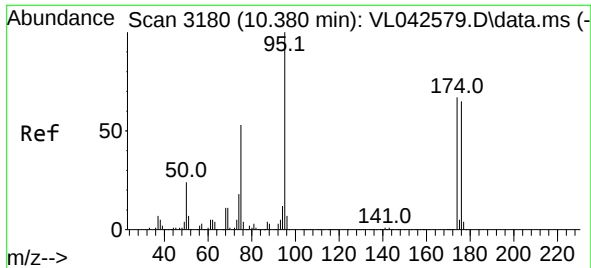
Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.885 min Scan# 2718  
Delta R.T. -0.003 min  
Lab File: VL042631.D  
Acq: 16 Jun 2025 16:20

Tgt Ion:117 Resp: 264603  
Ion Ratio Lower Upper  
117 100  
82 64.5 51.2 76.8  
119 32.0 26.3 39.5





#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.867 ppbv  
RT: 10.380 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VL042631.D  
Acq: 16 Jun 2025 16:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
115-SG1

Tgt Ion: 95 Resp: 195718  
Ion Ratio Lower Upper  
95 100  
174 62.3 53.1 79.7  
175 4.7 4.2 6.2

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 06/17/2025  
Supervised By :Mahesh Dadoda 06/17/2025

