

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL061925\  
 Data File : VL042657.D  
 Acq On : 19 Jun 2025 16:17  
 Operator : SY/MD  
 Sample : Q2369-01 10X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025  
 Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 04:54:25 2025

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

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2

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       | 2.800  | 49    | 113122   | 10.000   | ppbv   | 0.01     |
| 33) 1,4-Difluorobenzene     | 3.982  | 114   | 304237   | 10.000   | ppbv   | 0.02     |
| 55) Chlorobenzene-d5        | 8.905  | 117   | 268498   | 10.000   | ppbv   | 0.02     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.393 | 95    | 209871   | 10.427   | ppbv   | 0.01     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 104.300% |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 9) Propene                  | 1.483  | 41    | 10815m   | 1.403    | ppbv   |          |
| 10) Heptane                 | 5.011  | 43    | 10069m   | 0.463    | ppbv   |          |
| 13) Ethanol                 | 1.729  | 45    | 539915   | 587.522  | ppbv   | 97       |
| 15) Acetone                 | 1.842  | 43    | 31979m   | 2.347    | ppbv   |          |
| 19) Isopropyl Alcohol       | 1.894  | 45    | 9070     | 1.113    | ppbv # | 1        |
| 20) Methylene Chloride      | 2.069  | 84    | 1056     | 0.235    | ppbv # | 78       |
| 26) Hexane                  | 2.839  | 57    | 29663    | 1.751    | ppbv # | 70       |
| 29) Chloroform              | 2.862  | 83    | 3301     | 0.150    | ppbv   | 97       |
| 30) Cyclohexane             | 3.875  | 84    | 3783m    | 0.269    | ppbv   |          |
| 34) 2-Butanone              | 2.574  | 43    | 19294    | 0.889    | ppbv   | 96       |
| 36) Benzene                 | 3.674  | 78    | 17994    | 0.601    | ppbv # | 88       |
| 44) 2,2,4-Trimethylpentane  | 4.668  | 57    | 22501m   | 0.439    | ppbv   |          |
| 51) 2-Hexanone              | 7.467  | 43    | 10406m   | 0.436    | ppbv   |          |
| 52) Tetrachloroethene       | 8.251  | 164   | 319531   | 28.542   | ppbv   | 97       |
| 53) Toluene                 | 6.966  | 91    | 82757    | 2.390    | ppbv   | 99       |
| 58) Ethyl Benzene           | 9.377  | 91    | 22932    | 0.504    | ppbv   | 96       |
| 59) m/p-Xylene              | 9.552  | 91    | 72946    | 2.035    | ppbv   | 95       |
| 60) o-Xylene                | 9.982  | 91    | 27460    | 0.768    | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene  | 11.222 | 105   | 4347     | 0.118    | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene  | 11.549 | 105   | 16198    | 0.396    | ppbv # | 65       |
| 76) 1,4-Dichlorobenzene     | 11.688 | 146   | 8370     | 0.326    | ppbv   | 88       |
| -----                       |        |       |          |          |        |          |

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

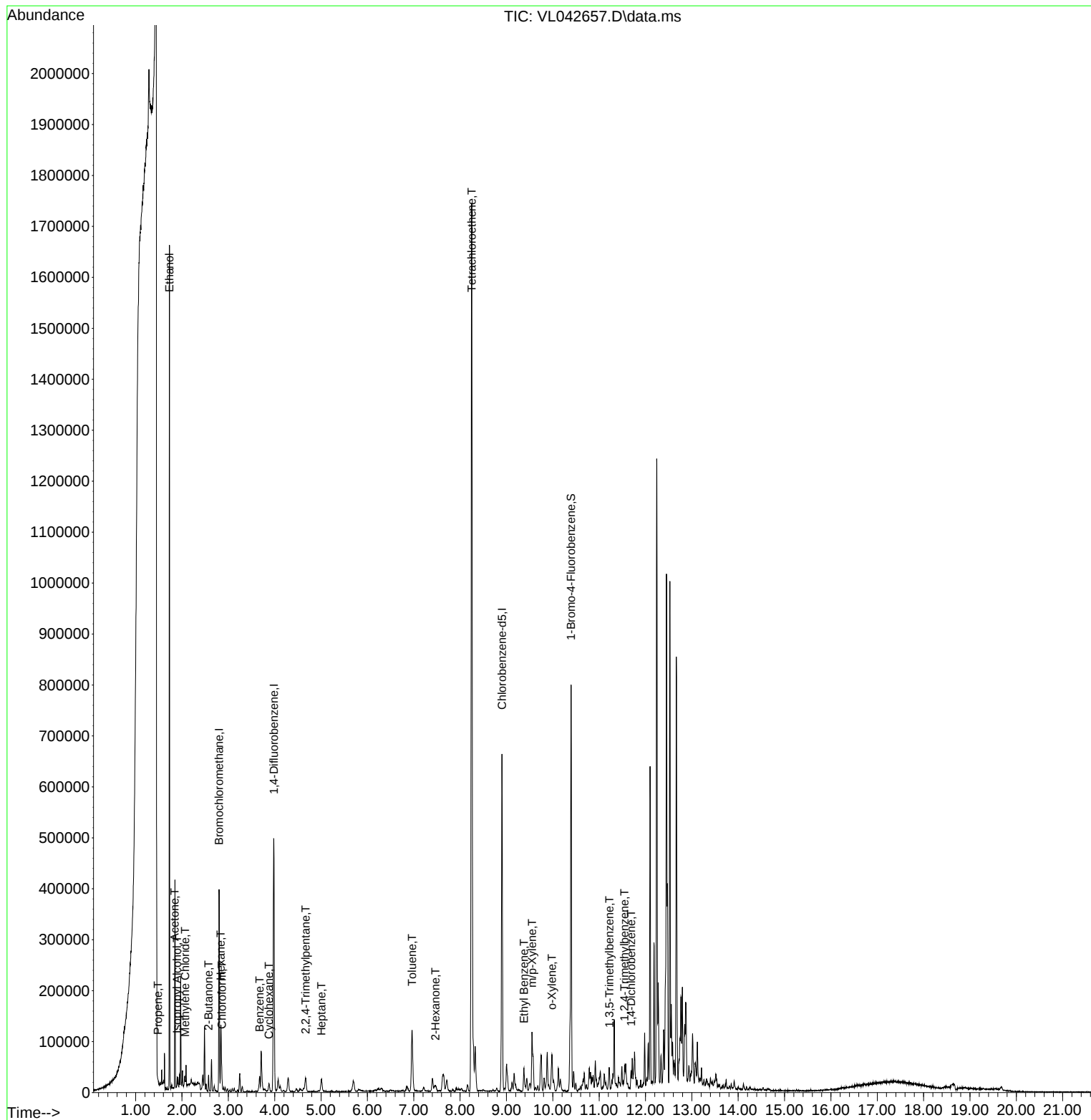
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL061925\  
Data File : VL042657.D  
Acq On : 19 Jun 2025 16:17  
Operator : SY/MD  
Sample : Q2369-01 10X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 10 Sample Multiplier: 1

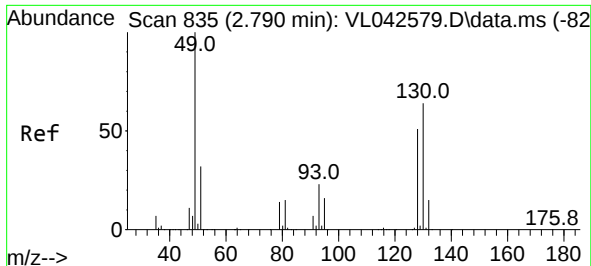
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1

Quant Time: Jun 20 04:54:25 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

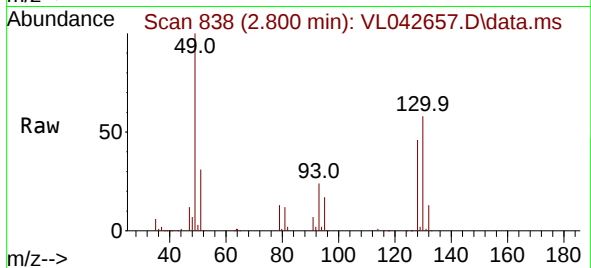
Reviewed By : Semsettin Yesilyurt 06/23/2025  
Supervised By : Mahesh Dadoda 06/23/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.800 min Scan# 835  
Delta R.T. 0.010 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

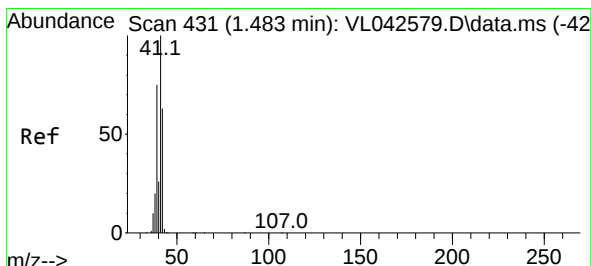
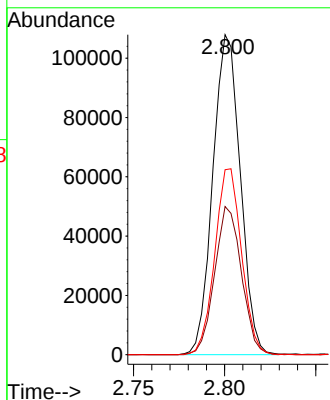
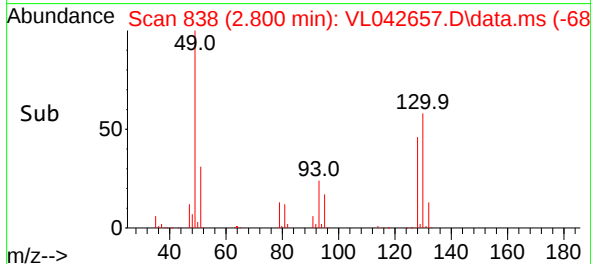
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



Tgt Ion: 49 Resp: 11312  
Ion Ratio Lower Upper  
49 100  
128 45.2 24.2 72.6  
130 56.6 30.4 91.2

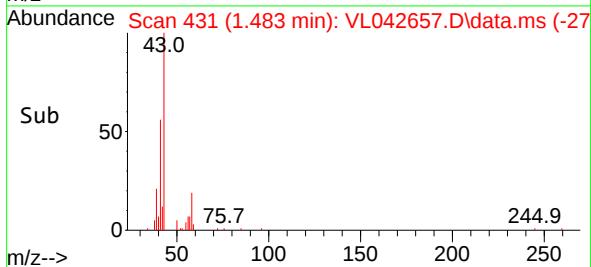
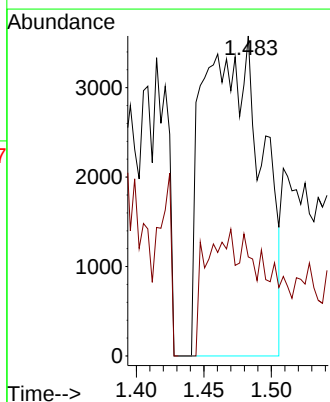
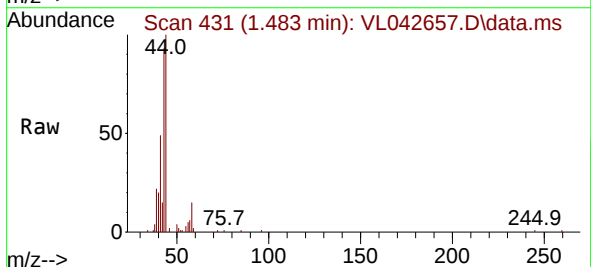
Manual Integrations  
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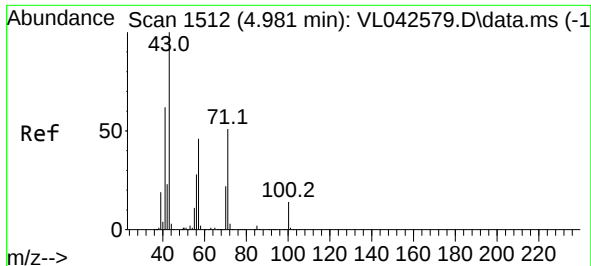
Reviewed By :Semsettin Yesilyurt 06/23/2025  
Supervised By :Mahesh Dadoda 06/23/2025



#9  
Propene  
Concen: 1.403 ppbv m  
RT: 1.483 min Scan# 431  
Delta R.T. 0.000 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

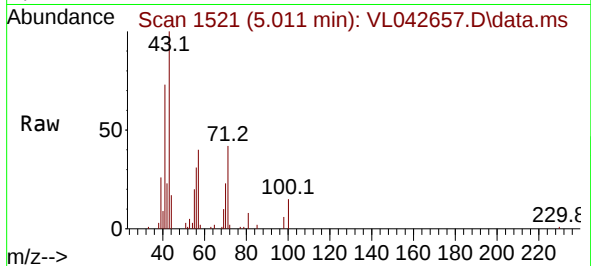
Tgt Ion: 41 Resp: 10815  
Ion Ratio Lower Upper  
41 100  
42 36.6 53.3 79.9#





#10  
Heptane  
Concen: 0.463 ppbv m  
RT: 5.011 min Scan# 1  
Delta R.T. 0.029 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

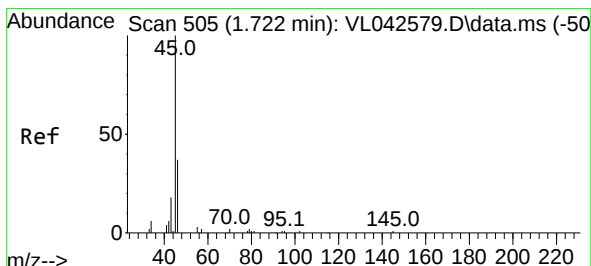
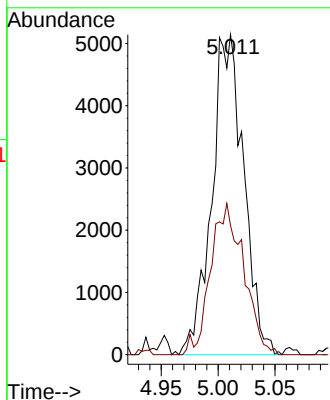
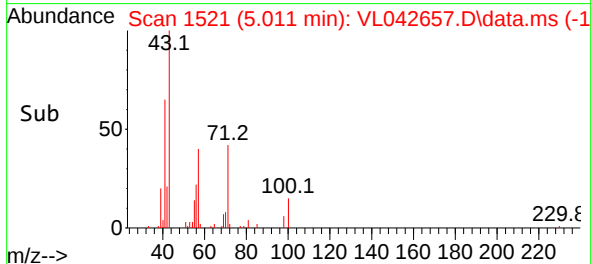
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



Tgt Ion: 43 Resp: 1006  
Ion Ratio Lower Upper  
43 100  
57 0.0 38.9 58.3

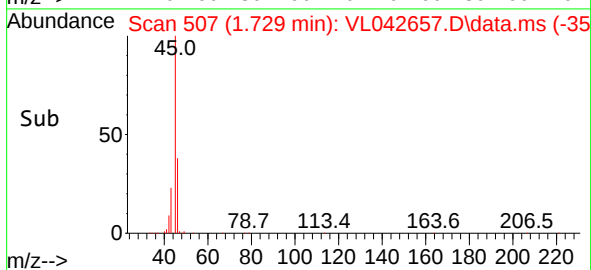
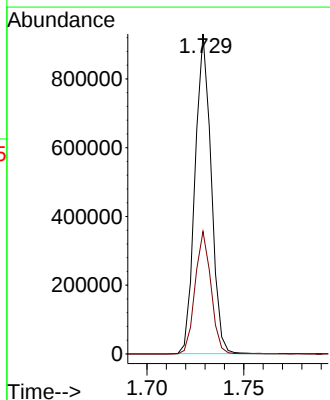
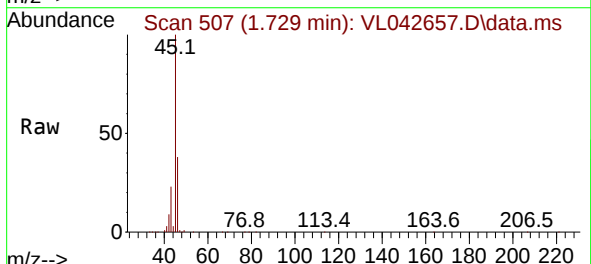
Manual Integrations  
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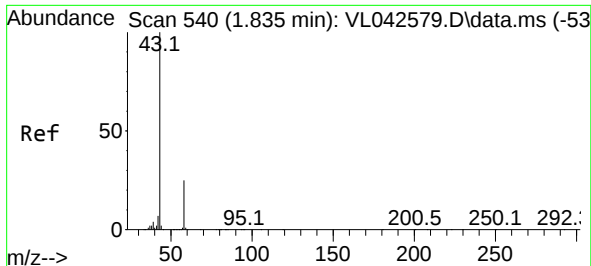
Reviewed By :Semsettin Yesilyurt 06/23/2025  
Supervised By :Mahesh Dadoda 06/23/2025



#13  
Ethanol  
Concen: 587.522 ppbv  
RT: 1.729 min Scan# 507  
Delta R.T. 0.007 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

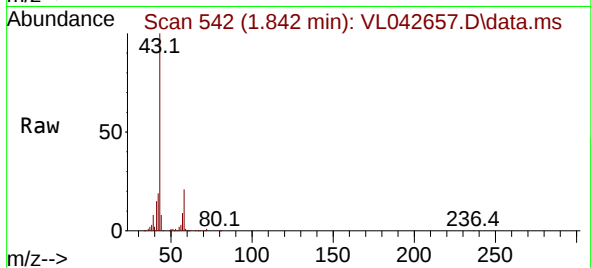
Tgt Ion: 45 Resp: 539915  
Ion Ratio Lower Upper  
45 100  
46 37.9 14.5 58.1





#15  
Acetone  
Concen: 2.347 ppbv m  
RT: 1.842 min Scan# 54  
Delta R.T. 0.007 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

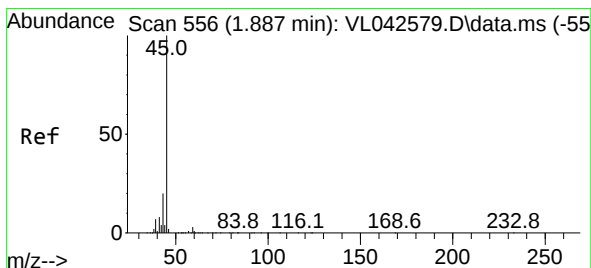
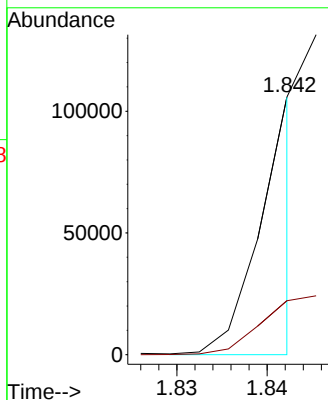
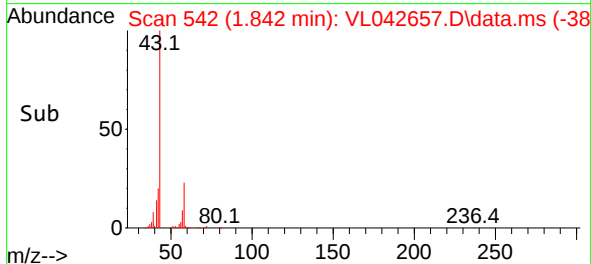
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



Tgt Ion: 43 Resp: 31979  
Ion Ratio Lower Upper  
43 100  
58 53.7 21.0 31.4

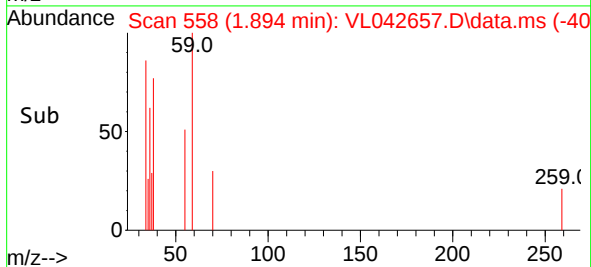
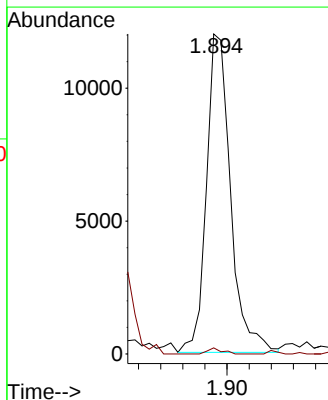
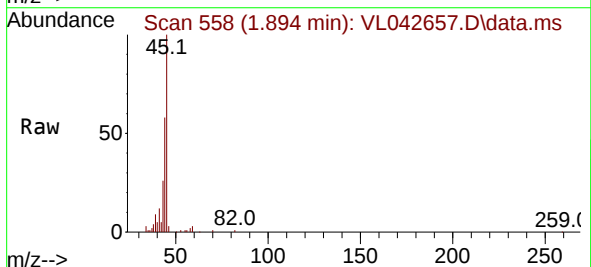
Manual Integrations  
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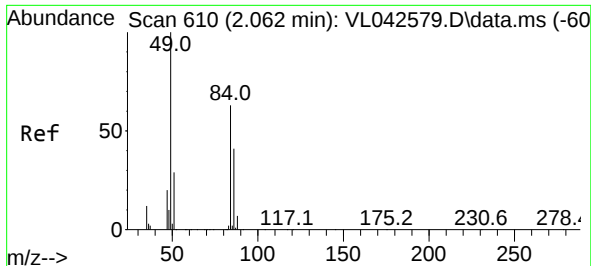
Reviewed By :Semsettin Yesilyurt 06/23/2025  
Supervised By :Mahesh Dadoda 06/23/2025



#19  
Isopropyl Alcohol  
Concen: 1.113 ppbv  
RT: 1.894 min Scan# 558  
Delta R.T. 0.007 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

Tgt Ion: 45 Resp: 9070  
Ion Ratio Lower Upper  
45 100  
58 189.2 29.4 44.2





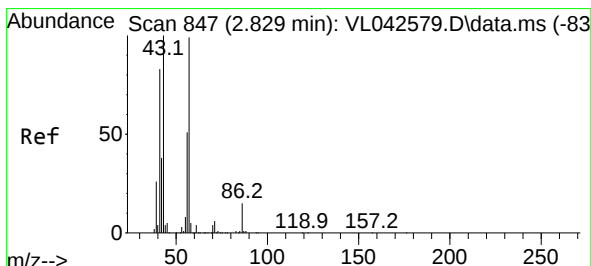
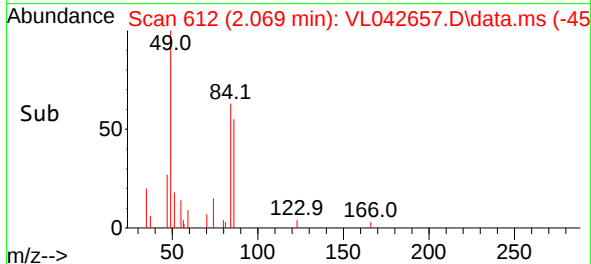
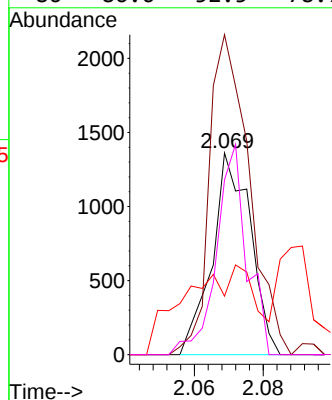
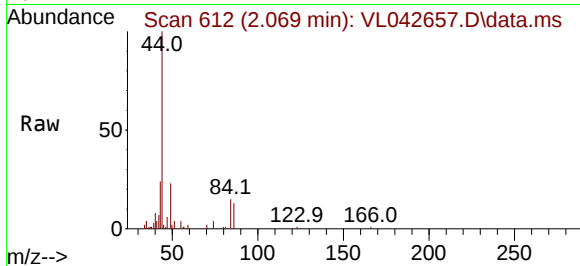
#20  
Methylene Chloride  
Concen: 0.235 ppbv  
RT: 2.069 min Scan# 610  
Delta R.T. 0.007 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1

Tgt Ion: 84 Resp: 1050  
Ion Ratio Lower Upper  
84 100  
49 170.8 128.8 193.2  
51 3.7 38.6 57.8  
86 86.6 52.5 78.7#

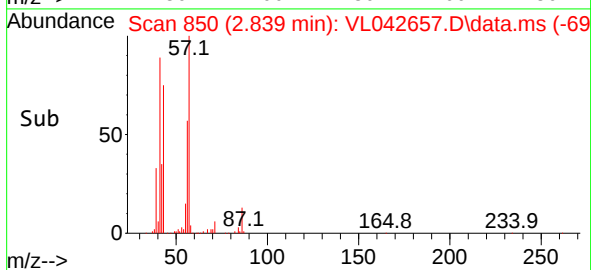
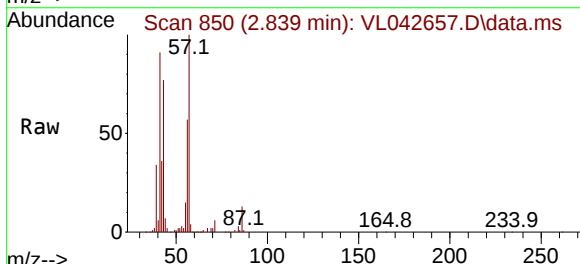
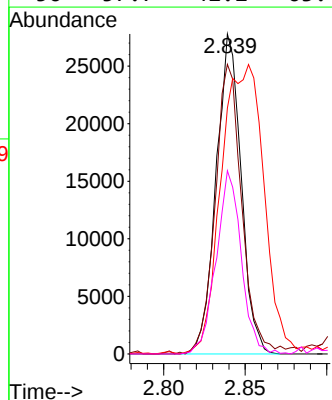
Manual Integrations  
APPROVED

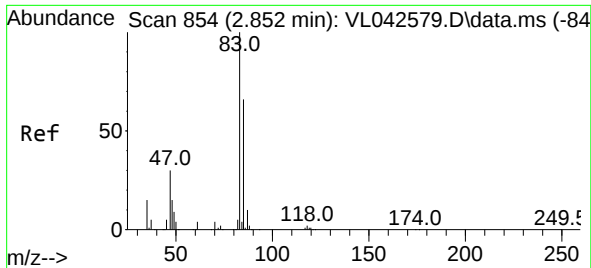
Reviewed By :Semsettin Yesilyurt 06/23/2025  
Supervised By :Mahesh Dadoda 06/23/2025



#26  
Hexane  
Concen: 1.751 ppbv  
RT: 2.839 min Scan# 850  
Delta R.T. 0.010 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

Tgt Ion: 57 Resp: 29663  
Ion Ratio Lower Upper  
57 100  
41 97.2 70.6 106.0  
43 156.5 181.1 271.7#  
56 57.7 42.2 63.4





#29

Chloroform

Concen: 0.150 ppbv

RT: 2.862 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL042657.D

Acq: 19 Jun 2025 16:17

Instrument :

MSVOA\_L

ClientSampleId :

SV1

Tgt Ion: 83 Resp: 330

Ion Ratio Lower Upper

83 100

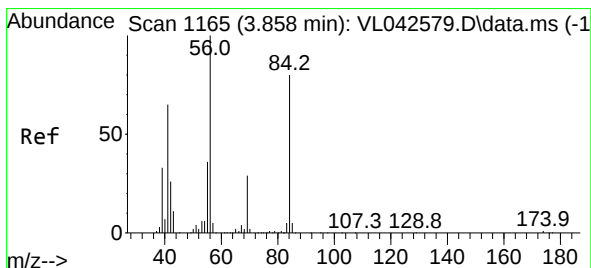
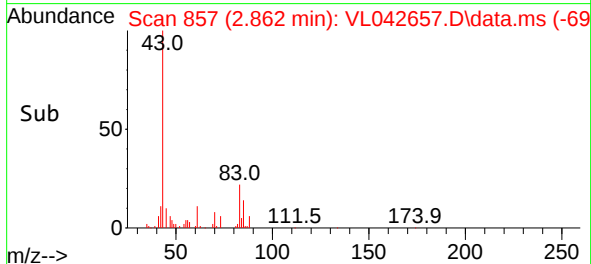
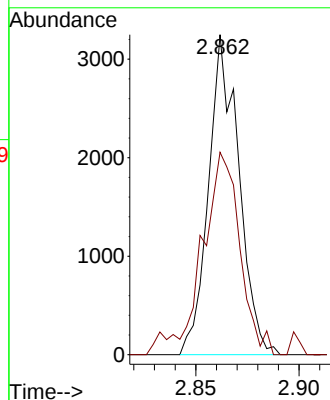
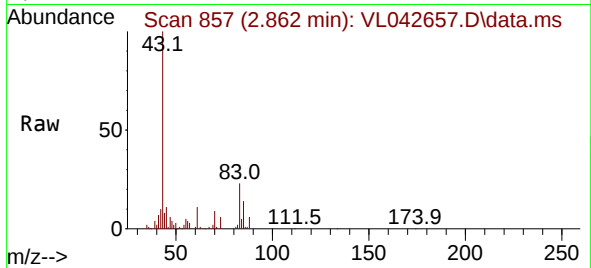
85 63.3 52.8 79.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#30

Cyclohexane

Concen: 0.269 ppbv m

RT: 3.875 min Scan# 1170

Delta R.T. 0.016 min

Lab File: VL042657.D

Acq: 19 Jun 2025 16:17

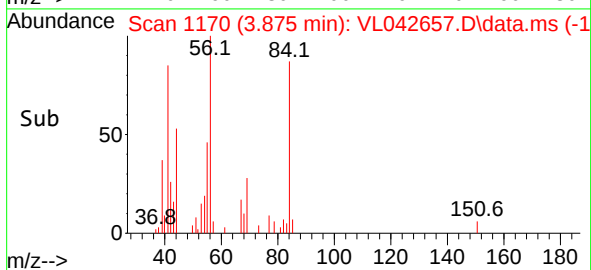
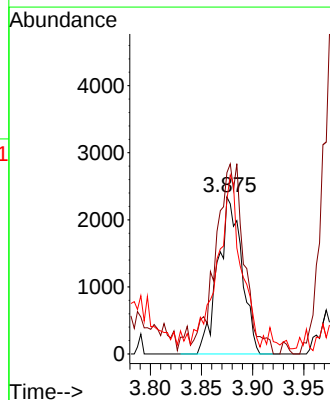
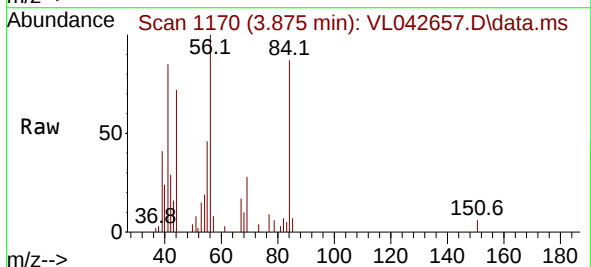
Tgt Ion: 84 Resp: 3783

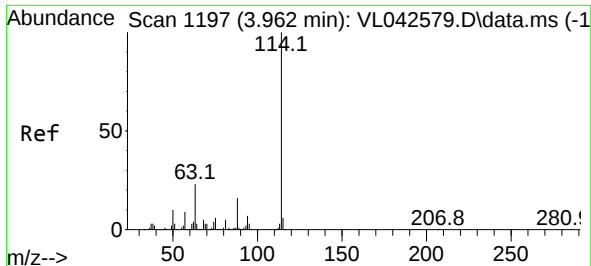
Ion Ratio Lower Upper

84 100

56 0.0 103.7 155.5#

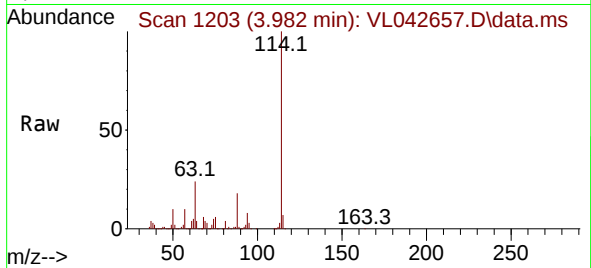
41 0.0 65.1 97.7#





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.982 min Scan# 1197  
Delta R.T. 0.020 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

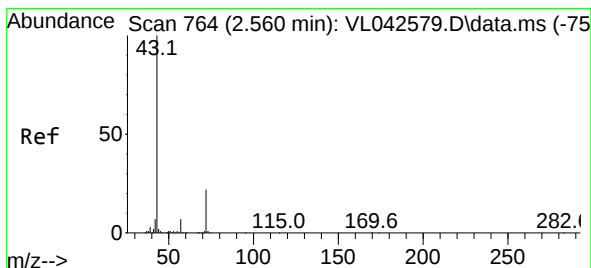
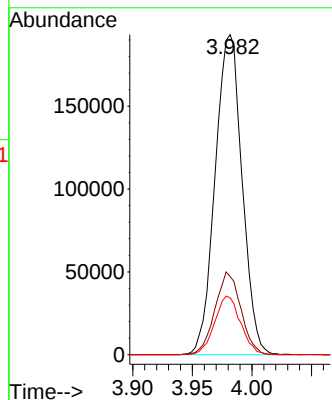
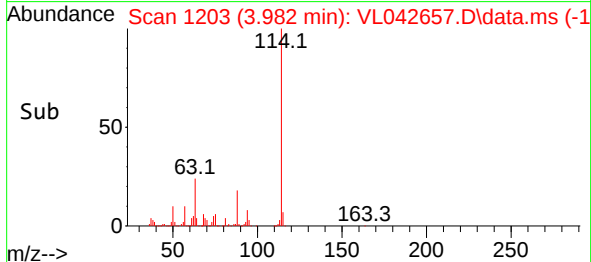
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



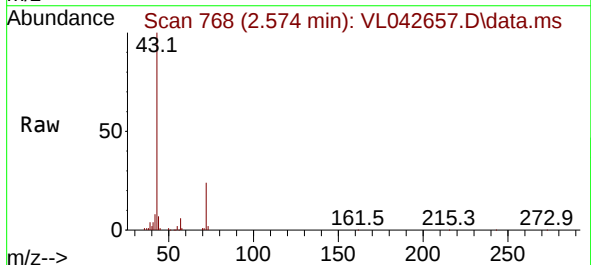
Tgt Ion:114 Resp: 30423  
Ion Ratio Lower Upper  
114 100  
63 24.8 19.0 28.6  
88 17.6 13.6 20.4

Manual Integrations  
APPROVED

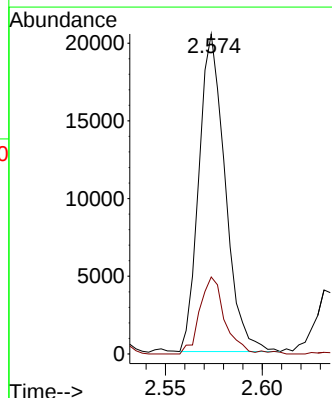
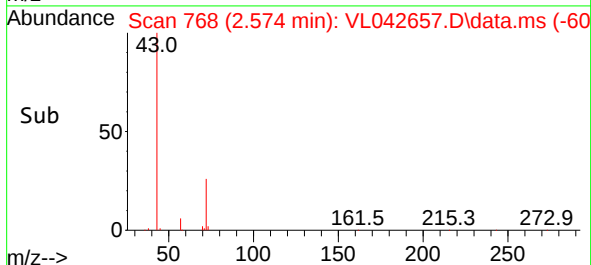
Reviewed By :Semsettin Yesilyurt 06/23/2025  
Supervised By :Mahesh Dadoda 06/23/2025

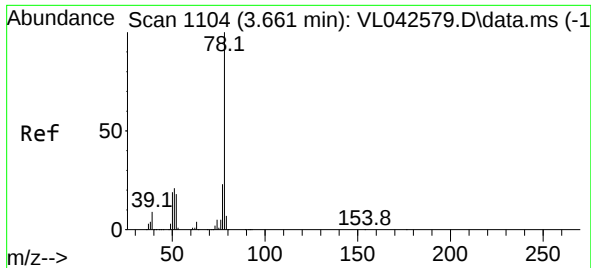


#34  
2-Butanone  
Concen: 0.889 ppbv  
RT: 2.574 min Scan# 768  
Delta R.T. 0.013 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17



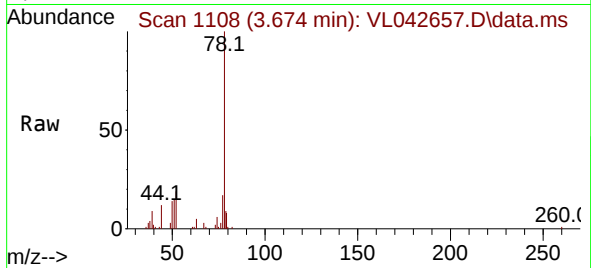
Tgt Ion: 43 Resp: 19294  
Ion Ratio Lower Upper  
43 100  
72 23.9 17.7 26.5





#36  
Benzene  
Concen: 0.601 ppbv  
RT: 3.674 min Scan# 1108  
Delta R.T. 0.013 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

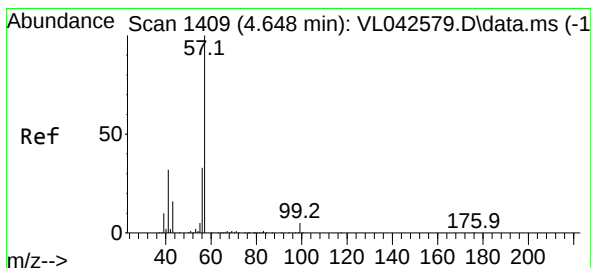
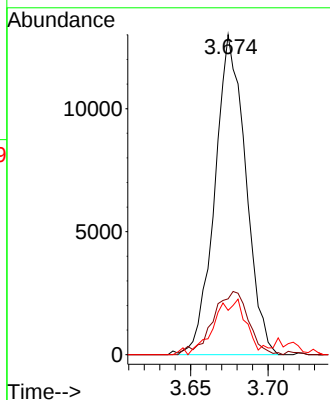
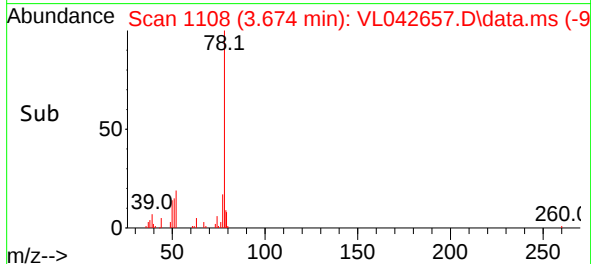
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



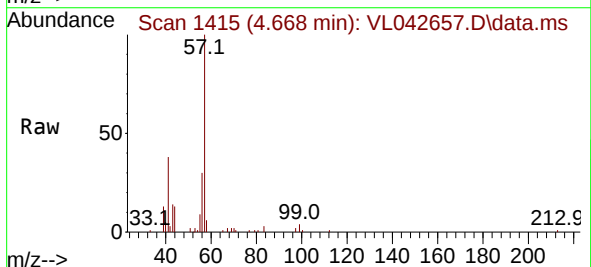
Tgt Ion: 78 Resp: 17994  
Ion Ratio Lower Upper  
78 100  
77 17.5 18.2 27.25  
50 13.0 15.2 22.85

Manual Integrations  
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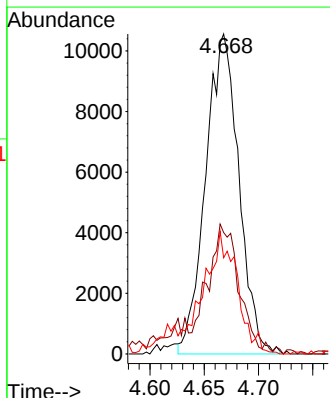
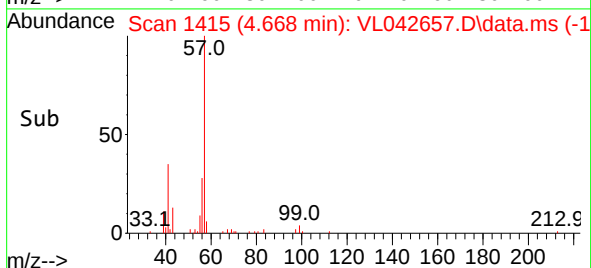
Reviewed By :Semsettin Yesilyurt 06/23/2025  
Supervised By :Mahesh Dadoda 06/23/2025

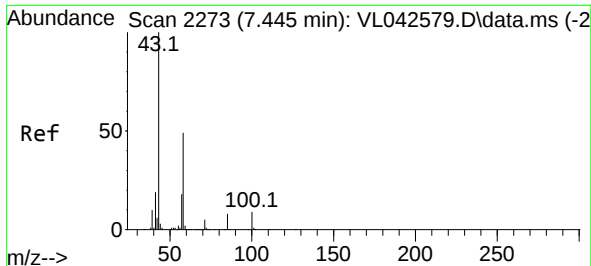


#44  
2,2,4-Trimethylpentane  
Concen: 0.439 ppbv m  
RT: 4.668 min Scan# 1415  
Delta R.T. 0.020 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17



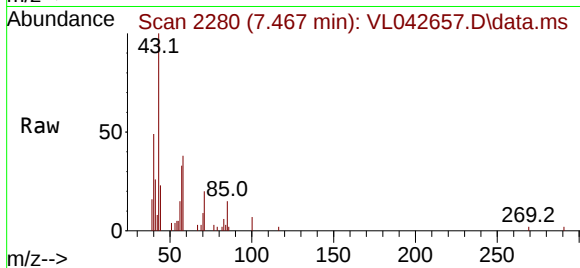
Tgt Ion: 57 Resp: 22501  
Ion Ratio Lower Upper  
57 100  
41 46.4 26.1 39.1#  
56 44.1 25.9 38.9#





#51  
2-Hexanone  
Concen: 0.436 ppbv m  
RT: 7.467 min Scan# 21  
Delta R.T. 0.023 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

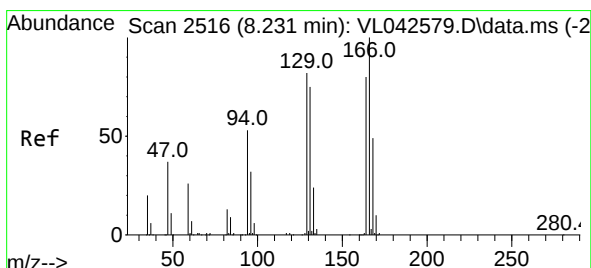
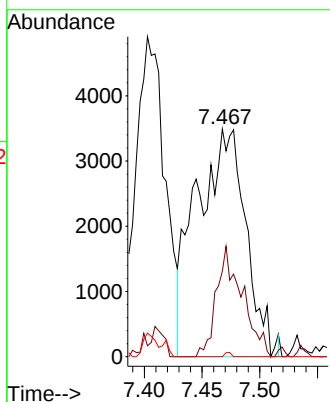
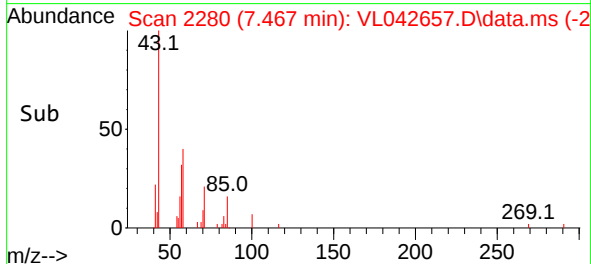
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



Tgt Ion: 43 Resp: 10400  
Ion Ratio Lower Upper  
43 100  
58 0.0 39.9 59.9  
98 0.0 0.1 0.1

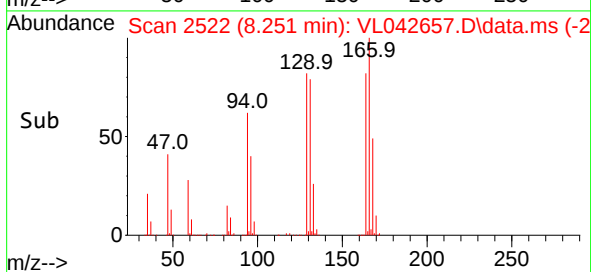
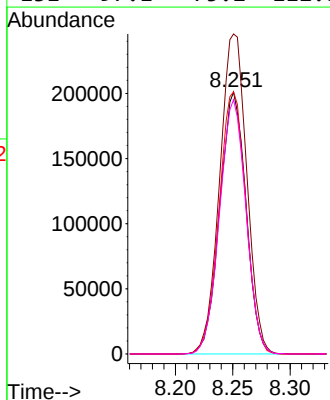
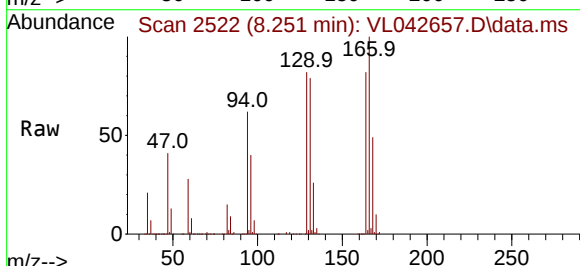
Manual Integrations  
APPROVED

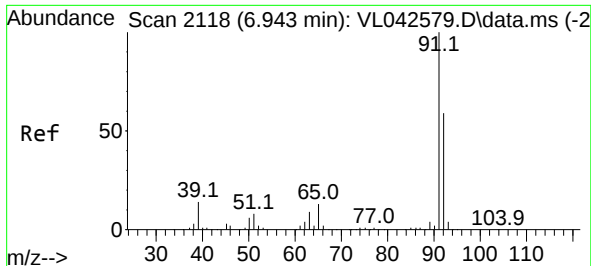
Reviewed By :Semsettin Yesilyurt 06/23/2025  
Supervised By :Mahesh Dadoda 06/23/2025



#52  
Tetrachloroethene  
Concen: 28.542 ppbv  
RT: 8.251 min Scan# 2522  
Delta R.T. 0.020 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

Tgt Ion:164 Resp: 319531  
Ion Ratio Lower Upper  
164 100  
166 122.2 100.0 150.0  
129 100.1 82.2 123.4  
131 97.1 75.2 112.8





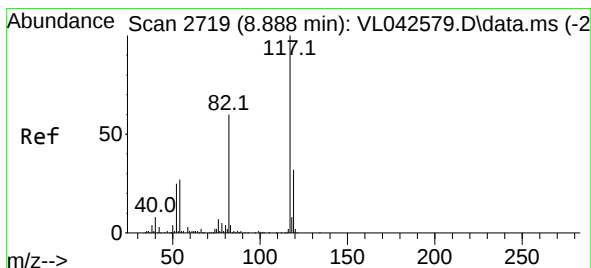
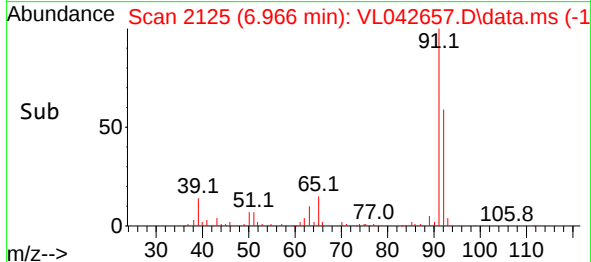
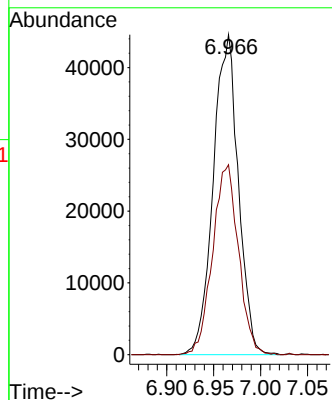
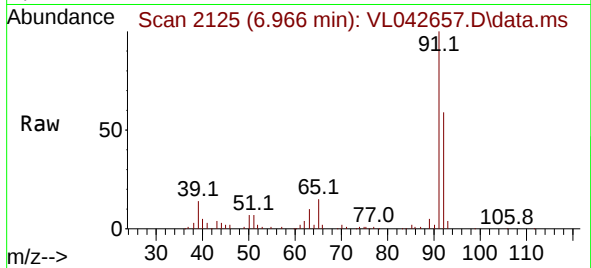
#53  
Toluene  
Concen: 2.390 ppbv  
RT: 6.966 min Scan# 2118  
Delta R.T. 0.023 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1

Tgt Ion: 91 Resp: 8275  
Ion Ratio Lower Upper  
91 100  
92 61.2 48.2 72.4

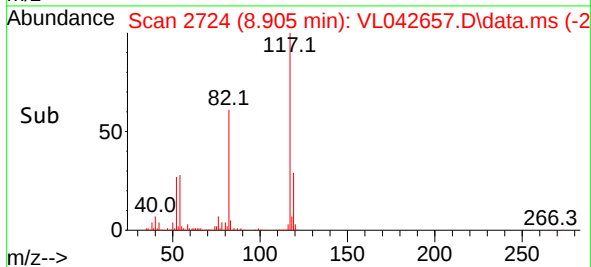
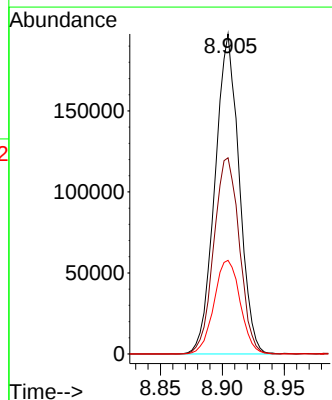
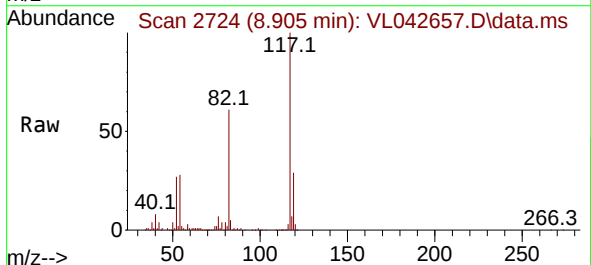
Manual Integrations  
APPROVED

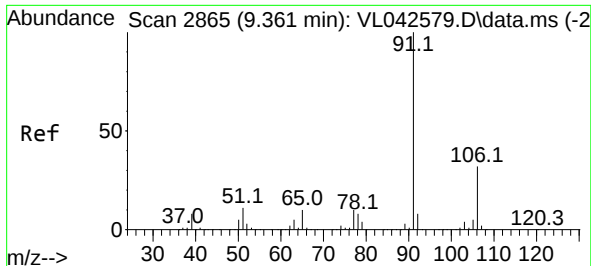
Reviewed By :Semsettin Yesilyurt 06/23/2025  
Supervised By :Mahesh Dadoda 06/23/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.905 min Scan# 2724  
Delta R.T. 0.016 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

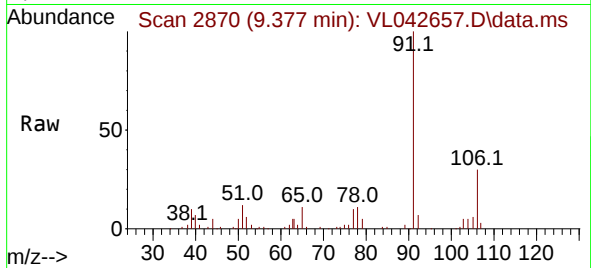
Tgt Ion:117 Resp: 268498  
Ion Ratio Lower Upper  
117 100  
82 64.8 51.2 76.8  
119 31.7 26.3 39.5





#58  
Ethyl Benzene  
Concen: 0.504 ppbv  
RT: 9.377 min Scan# 21  
Delta R.T. 0.016 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

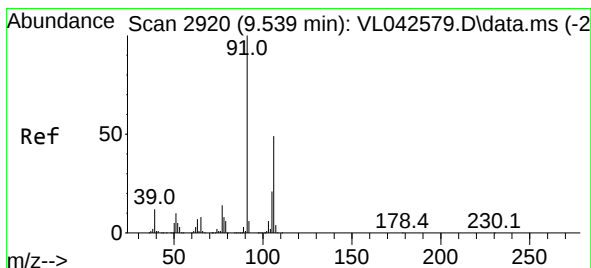
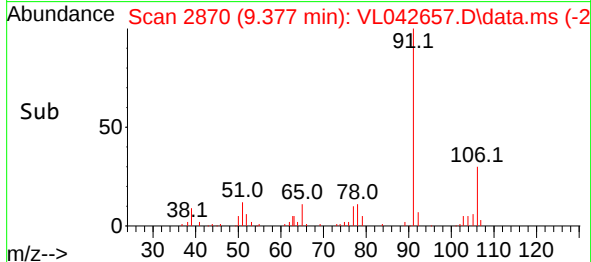
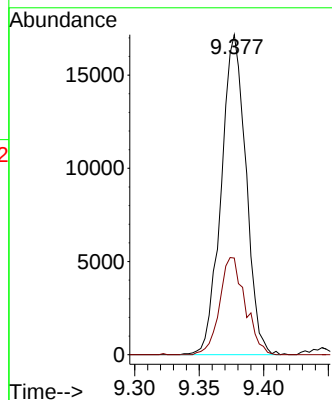
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



Tgt Ion: 91 Resp: 2293  
Ion Ratio Lower Upper  
91 100  
106 30.2 25.9 38.9

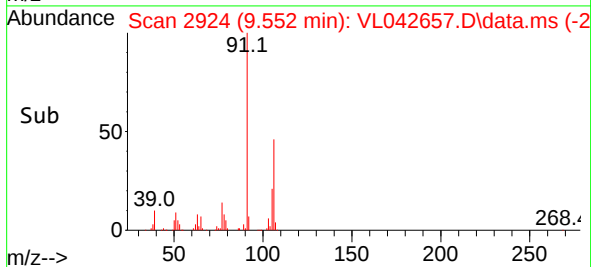
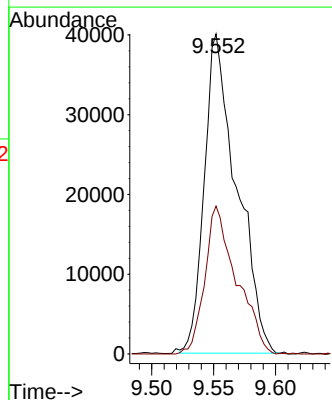
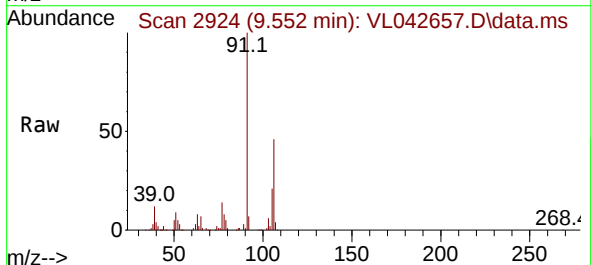
Manual Integrations  
APPROVED

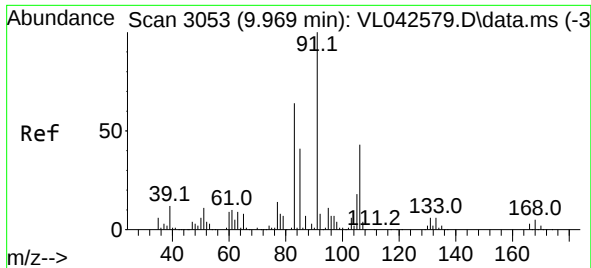
Reviewed By :Semsettin Yesilyurt 06/23/2025  
Supervised By :Mahesh Dadoda 06/23/2025



#59  
m/p-Xylene  
Concen: 2.035 ppbv  
RT: 9.552 min Scan# 2924  
Delta R.T. 0.013 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

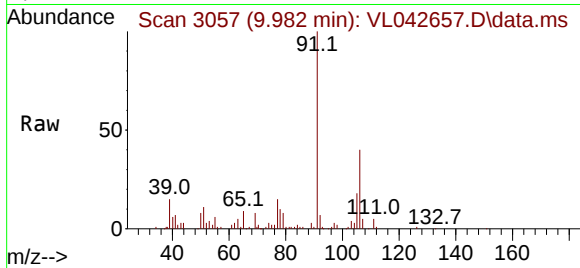
Tgt Ion: 91 Resp: 72946  
Ion Ratio Lower Upper  
91 100  
106 45.4 38.8 58.2





#60  
o-Xylene  
Concen: 0.768 ppbv  
RT: 9.982 min Scan# 3053  
Delta R.T. 0.013 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

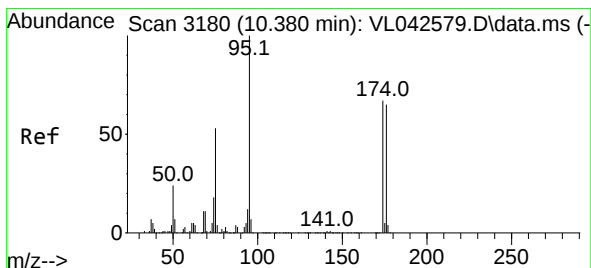
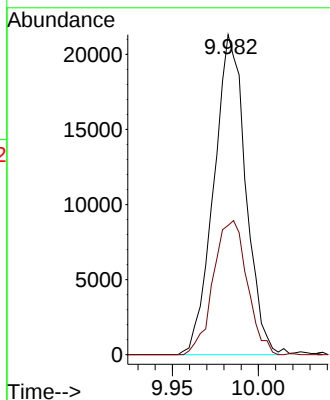
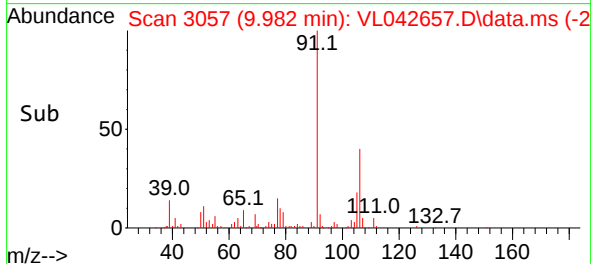
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1



Tgt Ion: 91 Resp: 27460  
Ion Ratio Lower Upper  
91 100  
106 44.4 22.9 68.5

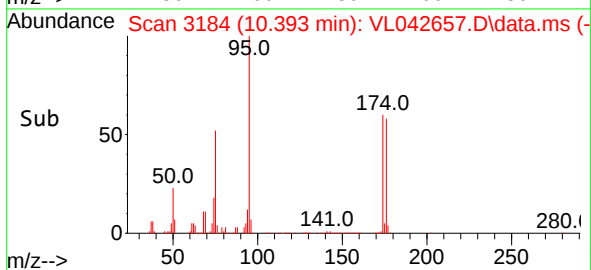
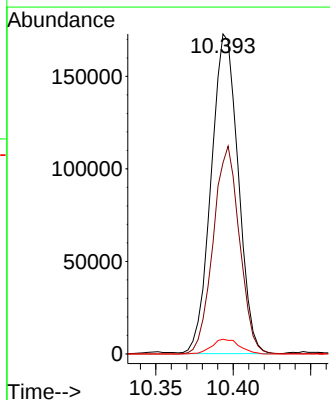
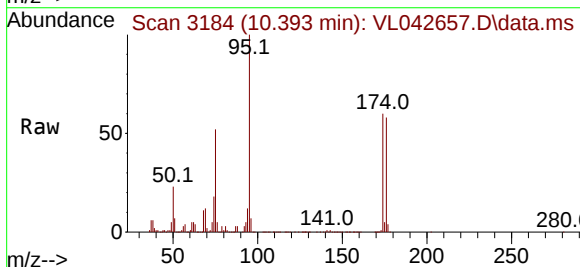
Manual Integrations  
APPROVED

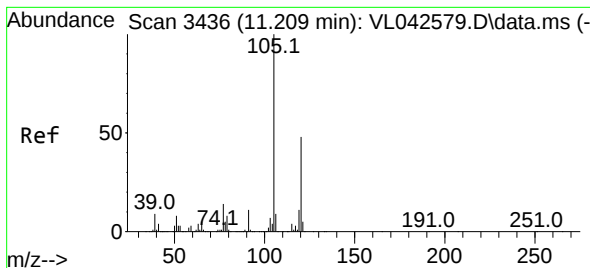
Reviewed By :Semsettin Yesilyurt 06/23/2025  
Supervised By :Mahesh Dadoda 06/23/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.427 ppbv  
RT: 10.393 min Scan# 3184  
Delta R.T. 0.013 min  
Lab File: VL042657.D  
Acq: 19 Jun 2025 16:17

Tgt Ion: 95 Resp: 209871  
Ion Ratio Lower Upper  
95 100  
174 63.5 53.1 79.7  
175 4.7 4.2 6.2





#73

1,3,5-Trimethylbenzene

Concen: 0.118 ppbv

RT: 11.222 min Scan# 3436

Delta R.T. 0.013 min

Lab File: VL042657.D

Acq: 19 Jun 2025 16:17

Instrument :

MSVOA\_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 434

Ion Ratio Lower Upper

105 100

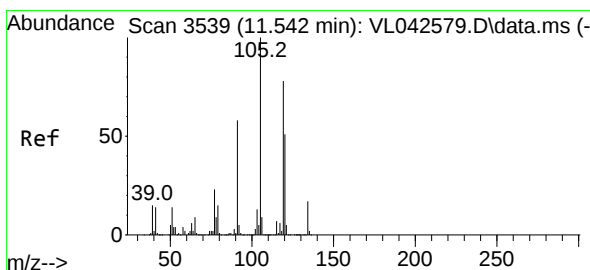
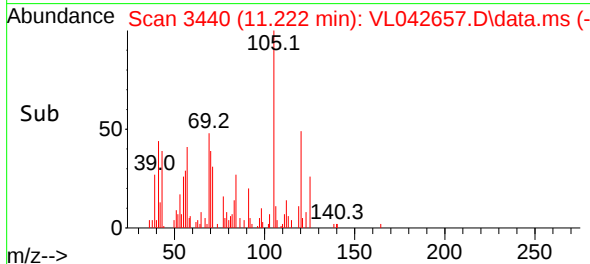
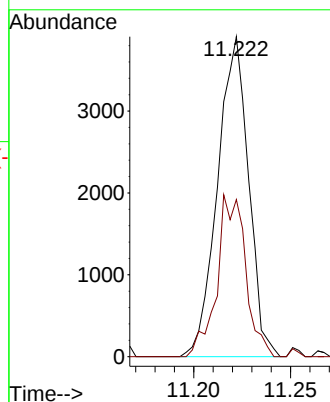
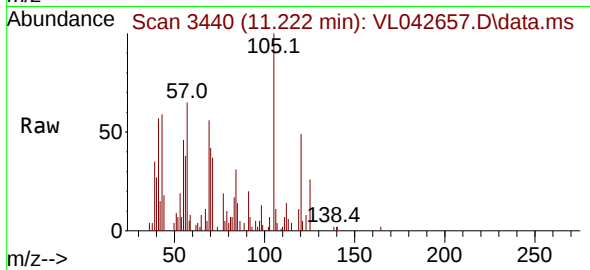
120 49.1 38.8 58.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.396 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.007 min

Lab File: VL042657.D

Acq: 19 Jun 2025 16:17

Tgt Ion:105 Resp: 16198

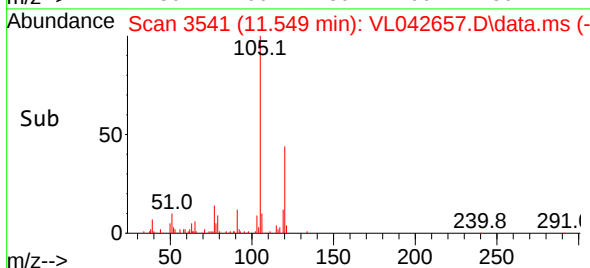
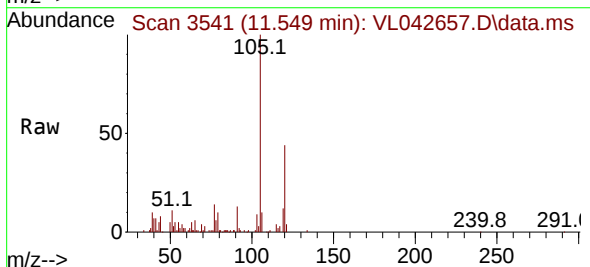
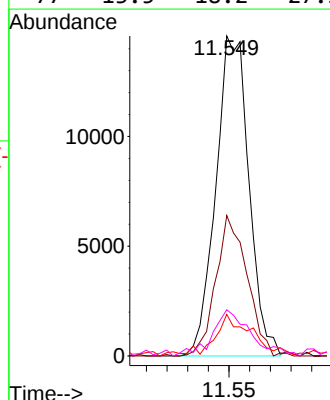
Ion Ratio Lower Upper

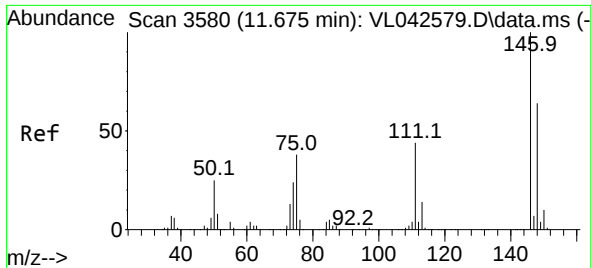
105 100

120 43.9 40.8 61.2

91 12.2 46.8 70.2#

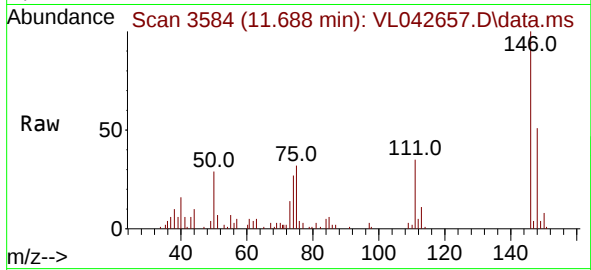
77 13.5 18.2 27.2#





#76  
 1,4-Dichlorobenzene  
 Concen: 0.326 ppbv  
 RT: 11.688 min Scan# 3584  
 Delta R.T. 0.013 min  
 Lab File: VL042657.D  
 Acq: 19 Jun 2025 16:17

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV1



Tgt Ion:146 Resp: 8370  
 Ion Ratio Lower Upper  
 146 100  
 111 59.5 21.6 64.8  
 148 62.0 32.1 96.5

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025  
 Supervised By :Mahesh Dadoda 06/23/2025

