

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
 Data File : VL042998.D  
 Acq On : 23 Sep 2025 18:48  
 Operator : SY/MD  
 Sample : Q2893-13 0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT3-2025

Quant Time: Sep 24 02:28:40 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Wed Sep 24 02:23:20 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/24/2025  
 Supervised By : Mahesh Dadoda 09/26/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.790  | 49    | 153138   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.962  | 114   | 397669   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.888  | 117   | 356735   | 10.000   | ppbv   | 0.01     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.380 | 95    | 273738   | 10.280   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 102.800% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.580  | 62    | 347      | 0.041    | ppbv # | 86       |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97    | 994m     | 0.031    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.768  | 117   | 1001m    | 0.039    | ppbv   |          |
| 38) Trichloroethene           | 4.551  | 130   | 676m     | 0.036    | ppbv   |          |
| 52) Tetrachloroethene         | 8.228  | 164   | 520m     | 0.036    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.976  | 83    | 993m     | 0.041    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

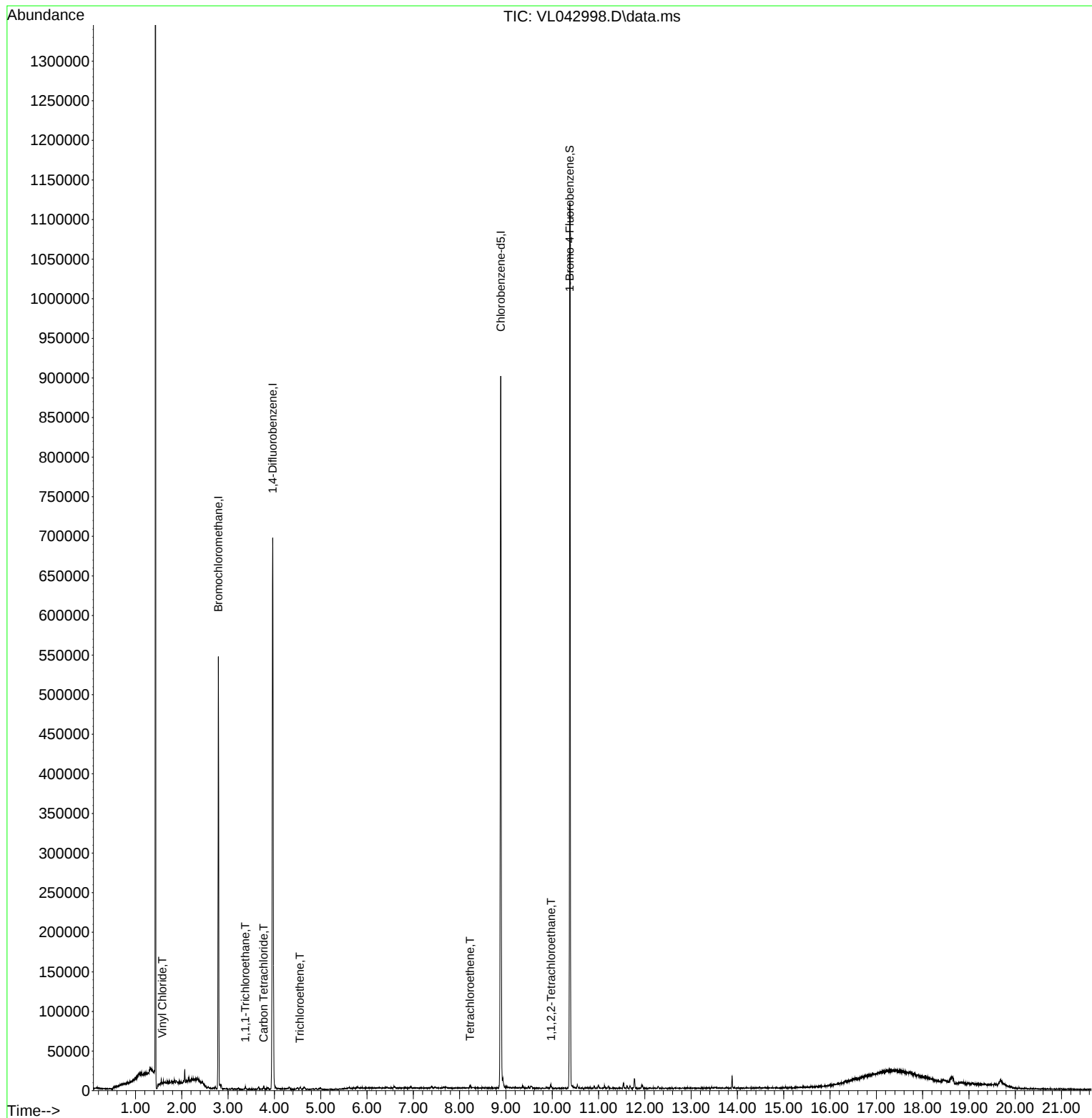
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL092325\  
Data File : VL042998.D  
Acq On : 23 Sep 2025 18:48  
Operator : SY/MD  
Sample : Q2893-13 0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

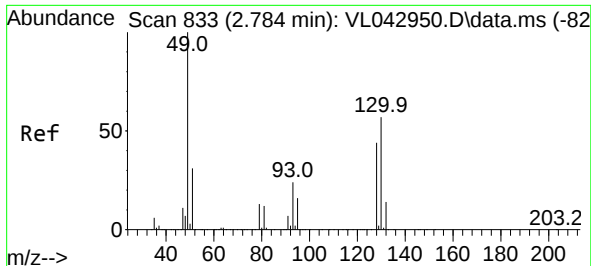
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT3-2025

Quant Time: Sep 24 02:28:40 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL092225AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Wed Sep 24 02:23:20 2025  
Response via : Initial Calibration

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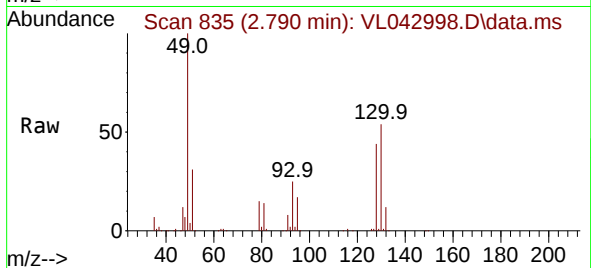
Reviewed By :Semsettin Yesilyurt 09/24/2025  
Supervised By :Mahesh Dadoda 09/26/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VL042998.D  
Acq: 23 Sep 2025 18:48

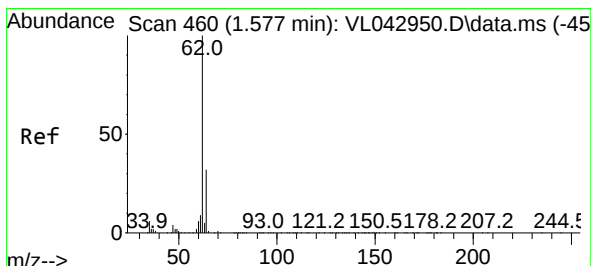
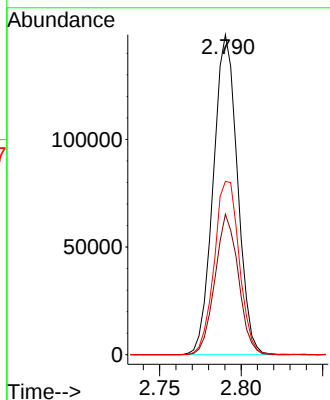
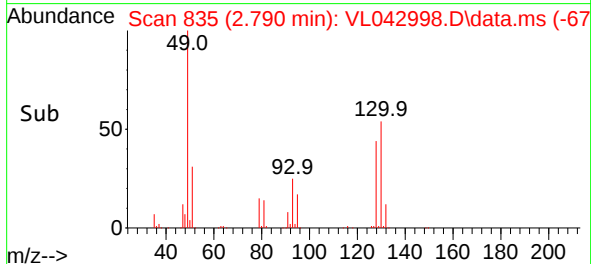
Instrument :  
MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT3-2025



Tgt Ion: 49 Resp: 153138  
Ion Ratio Lower Upper  
49 100  
128 42.4 22.9 68.8  
130 56.2 29.1 87.3

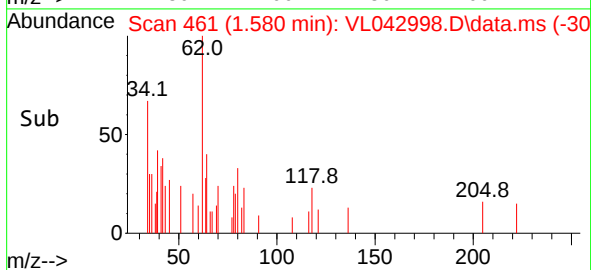
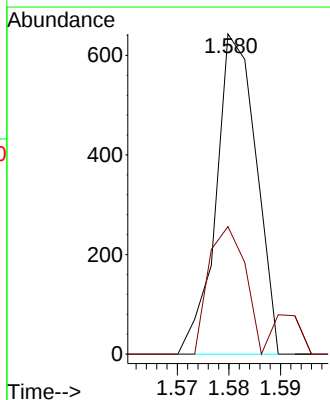
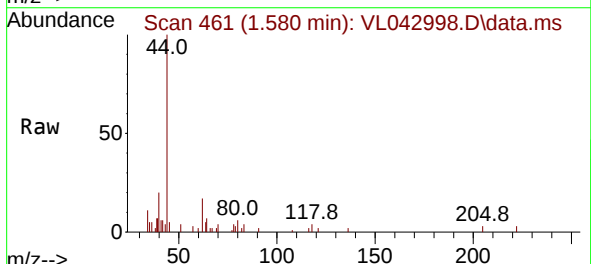
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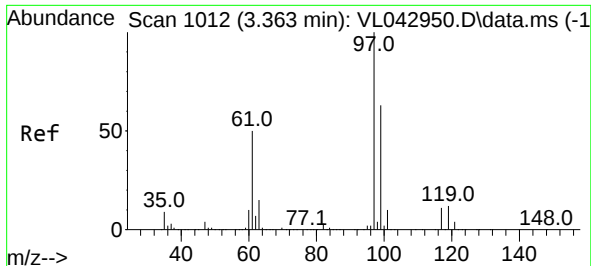
Reviewed By :Semsettin Yesilyurt 09/24/2025  
Supervised By :Mahesh Dadoda 09/26/2025



#5  
Vinyl Chloride  
Concen: 0.041 ppbv  
RT: 1.580 min Scan# 461  
Delta R.T. 0.003 min  
Lab File: VL042998.D  
Acq: 23 Sep 2025 18:48

Tgt Ion: 62 Resp: 347  
Ion Ratio Lower Upper  
62 100  
64 39.8 25.4 38.2#





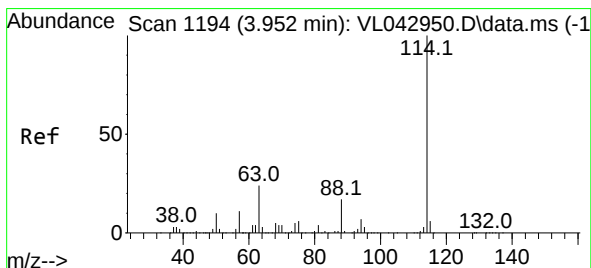
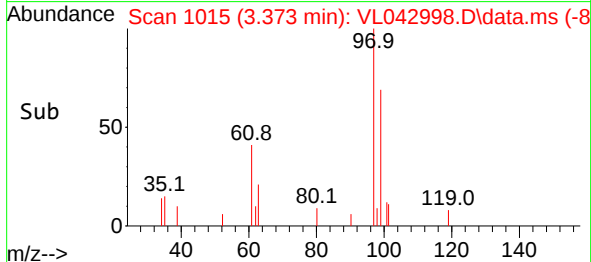
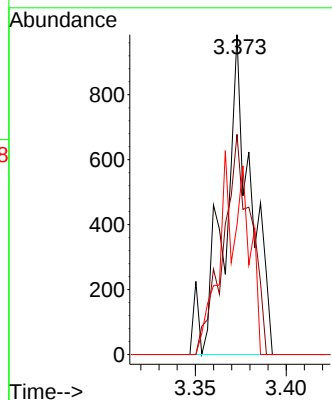
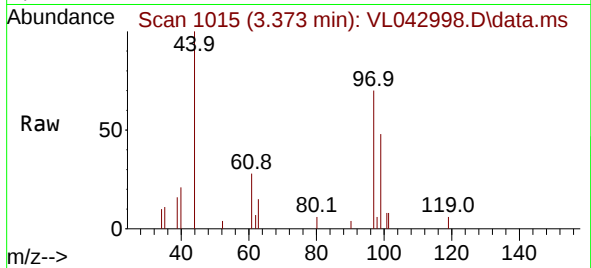
#32  
1,1,1-Trichloroethane  
Concen: 0.031 ppbv m  
RT: 3.373 min Scan# 1012  
Delta R.T. 0.010 min  
Lab File: VL042998.D  
Acq: 23 Sep 2025 18:48

Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT3-2025

Tgt Ion: 97 Resp: 994  
Ion Ratio Lower Upper  
97 100  
99 72.5 51.1 76.7  
61 62.6 39.8 59.6

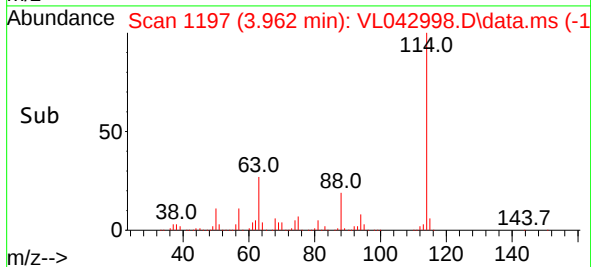
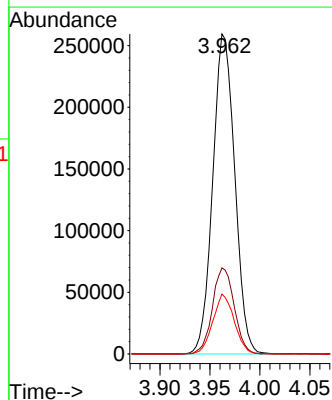
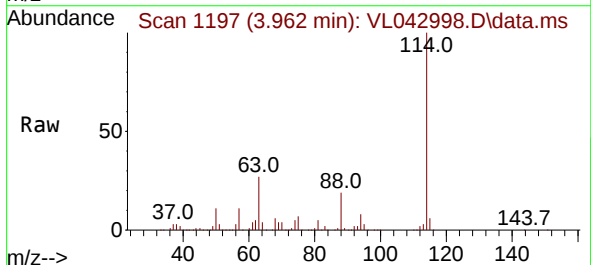
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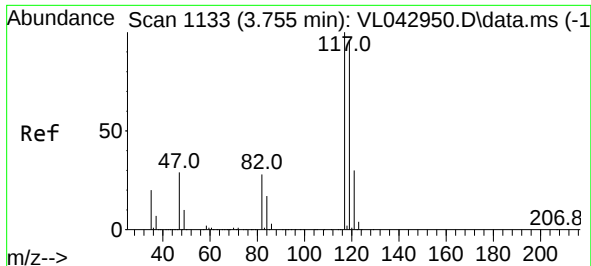
Reviewed By :Semsettin Yesilyurt 09/24/2025  
Supervised By :Mahesh Dadoda 09/26/2025



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. 0.010 min  
Lab File: VL042998.D  
Acq: 23 Sep 2025 18:48

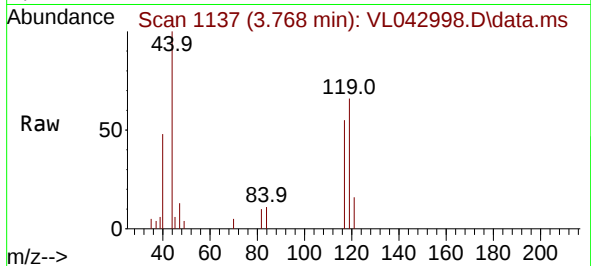
Tgt Ion:114 Resp: 397669  
Ion Ratio Lower Upper  
114 100  
63 26.6 19.4 29.2  
88 18.2 14.2 21.2





#35  
Carbon Tetrachloride  
Concen: 0.039 ppbv m  
RT: 3.768 min Scan# 1133  
Delta R.T. 0.013 min  
Lab File: VL042998.D  
Acq: 23 Sep 2025 18:48

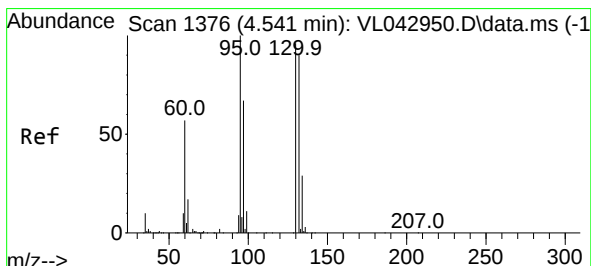
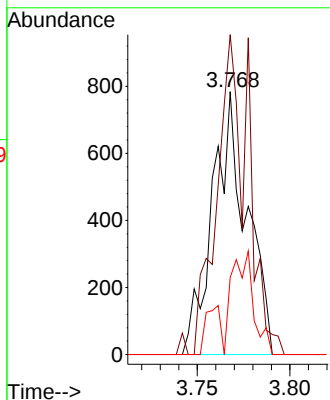
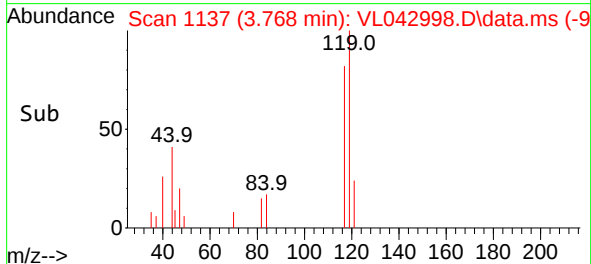
Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT3-2025



Tgt Ion:117 Resp: 100  
Ion Ratio Lower Upper  
117 100  
119 121.7 76.9 115.3#  
121 29.3 23.7 35.5

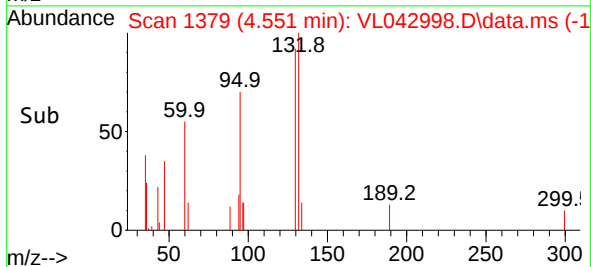
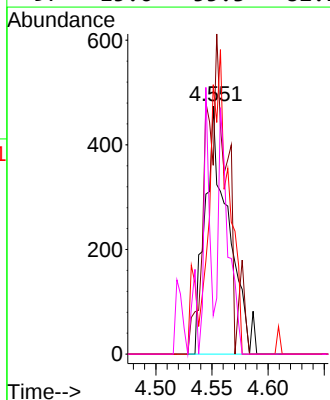
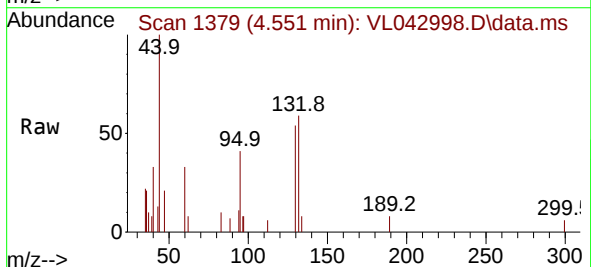
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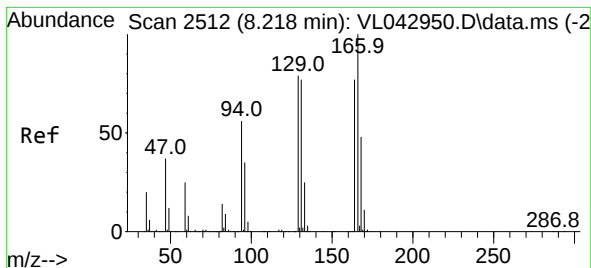
Reviewed By :Semsettin Yesilyurt 09/24/2025  
Supervised By :Mahesh Dadoda 09/26/2025



#38  
Trichloroethene  
Concen: 0.036 ppbv m  
RT: 4.551 min Scan# 1379  
Delta R.T. 0.010 min  
Lab File: VL042998.D  
Acq: 23 Sep 2025 18:48

Tgt Ion:130 Resp: 676  
Ion Ratio Lower Upper  
130 100  
95 76.2 83.0 124.4#  
132 108.6 74.6 112.0  
97 15.6 55.3 82.9#





#52

Tetrachloroethene

Concen: 0.036 ppbv m

RT: 8.228 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042998.D

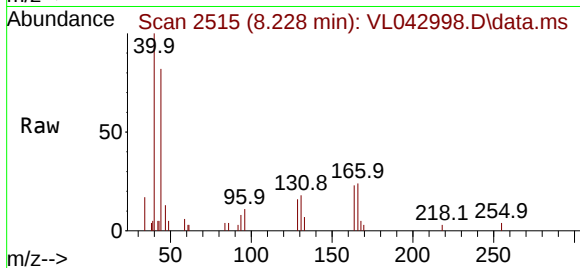
Acq: 23 Sep 2025 18:48

Instrument :

MSVOA\_L

ClientSampleId :

LOD-MDL-AIR-01-QT3-2025

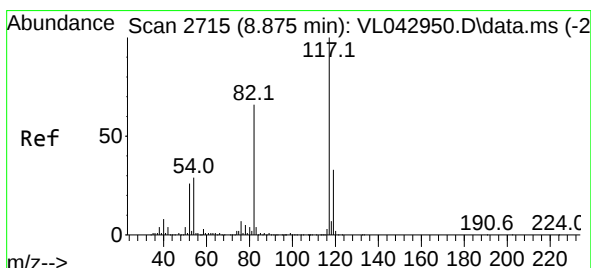
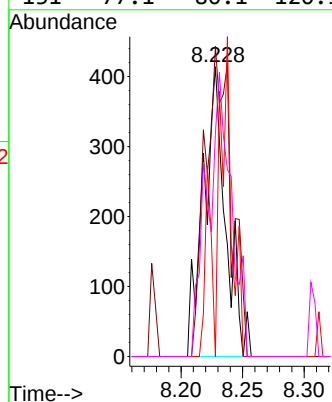
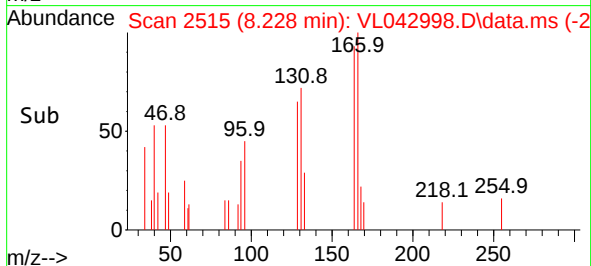


|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 520   |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 166       | 107.0 | 103.5 | 155.3 |
| 129       | 0.0   | 82.2  | 123.4 |
| 131       | 77.1  | 80.1  | 120.1 |

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

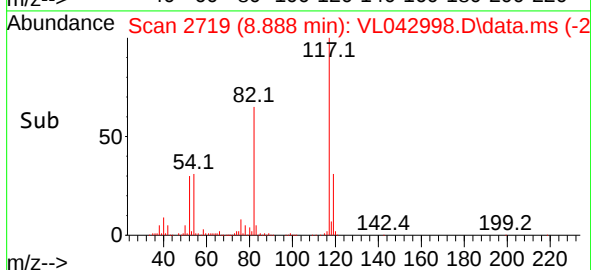
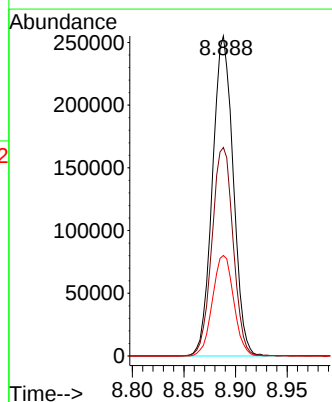
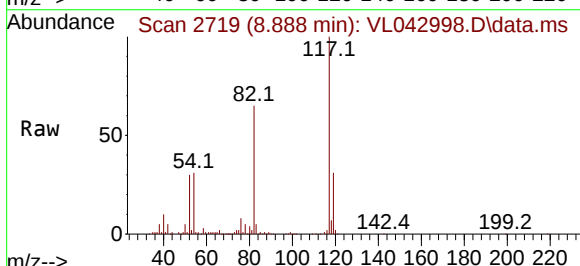
RT: 8.888 min Scan# 2719

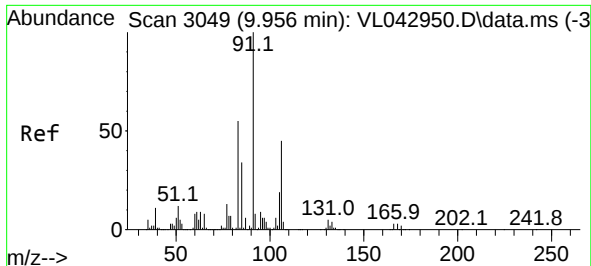
Delta R.T. 0.013 min

Lab File: VL042998.D

Acq: 23 Sep 2025 18:48

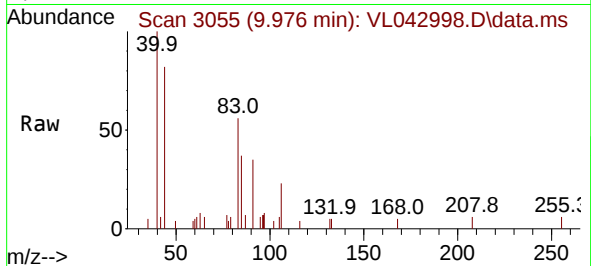
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 356735 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 66.4  | 52.8  | 79.2   |
| 119       | 32.2  | 26.5  | 39.7   |





#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.041 ppbv m  
RT: 9.976 min Scan# 3049  
Delta R.T. 0.019 min  
Lab File: VL042998.D  
Acq: 23 Sep 2025 18:48

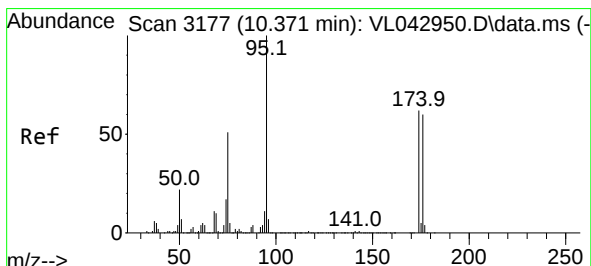
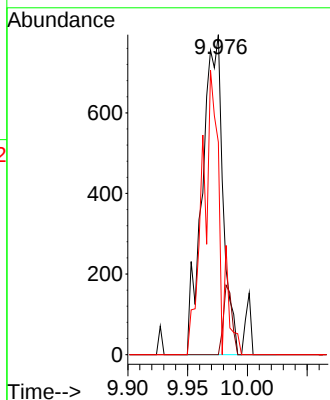
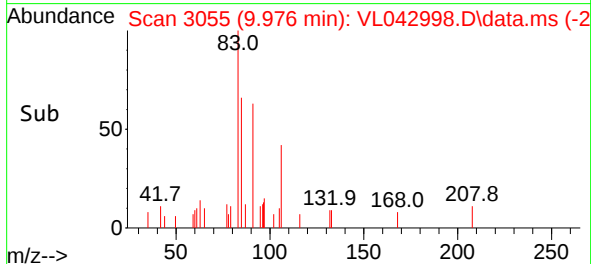
Instrument : MSVOA\_L  
ClientSampleId :  
LOD-MDL-AIR-01-QT3-2025



Tgt Ion: 83 Resp: 99  
Ion Ratio Lower Upper  
83 100  
131 8.7 4.8 14.4  
85 70.2 32.2 96.6

Manual Integrations  
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Supervised By :Mahesh Dadoda 09/26/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.280 ppbv  
RT: 10.380 min Scan# 3180  
Delta R.T. 0.010 min  
Lab File: VL042998.D  
Acq: 23 Sep 2025 18:48

Tgt Ion: 95 Resp: 273738  
Ion Ratio Lower Upper  
95 100  
174 59.8 51.4 77.2  
175 4.4 4.0 6.0

