

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
 Data File : VL043110.D  
 Acq On : 14 Oct 2025 13:42  
 Operator : SY/MD  
 Sample : VSTDICC0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
 Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 01:55:07 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Wed Oct 15 01:49:43 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.790  | 49    | 100058   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.959  | 114   | 328897   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.882  | 117   | 292884   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 224043   | 9.841    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 98.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.583  | 62    | 217      | 0.039    | ppbv   | # 78     |
| 32) 1,1,1-Trichloroethane     | 3.376  | 97    | 650m     | 0.028    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.761  | 117   | 742m     | 0.031    | ppbv   |          |
| 38) Trichloroethene           | 4.551  | 130   | 454m     | 0.035    | ppbv   |          |
| 52) Tetrachloroethene         | 8.218  | 164   | 349m     | 0.031    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.969  | 83    | 904m     | 0.034    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

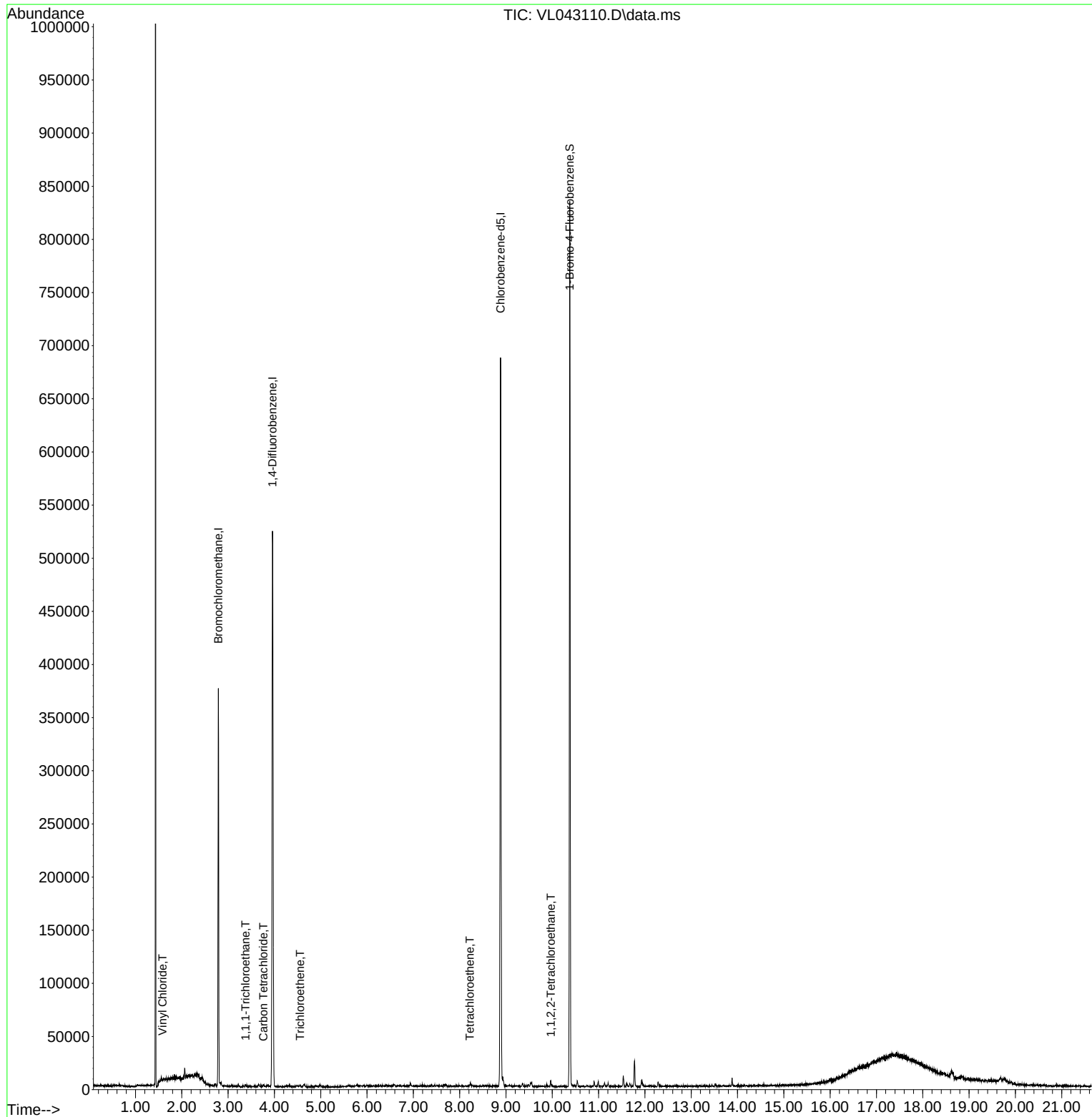
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101425\  
Data File : VL043110.D  
Acq On : 14 Oct 2025 13:42  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

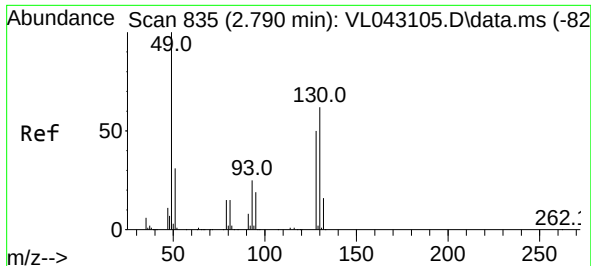
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Quant Time: Oct 15 01:55:07 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Wed Oct 15 01:49:43 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

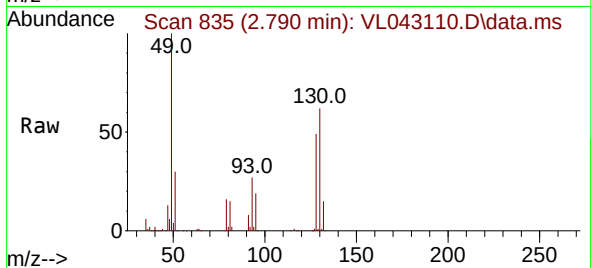
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

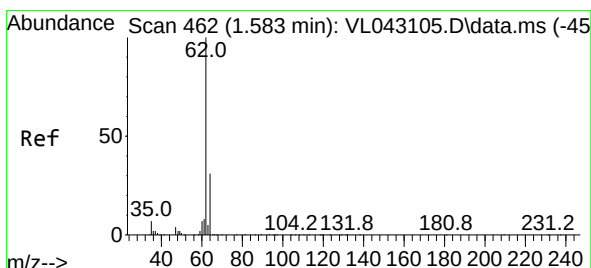
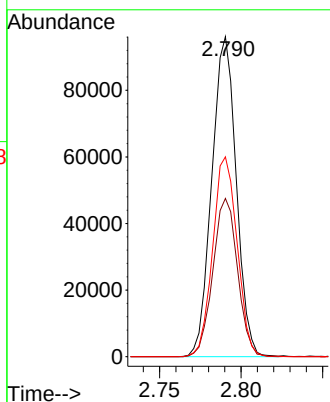
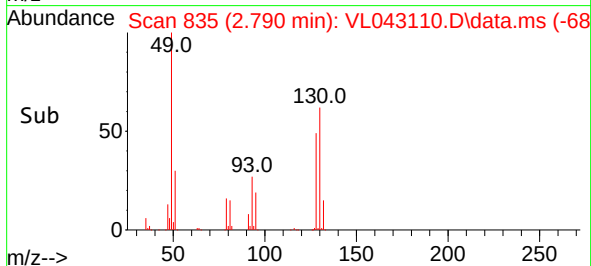
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03



Tgt Ion: 49 Resp: 100058  
Ion Ratio Lower Upper  
49 100  
128 49.9 24.4 73.4  
130 62.5 31.0 93.0

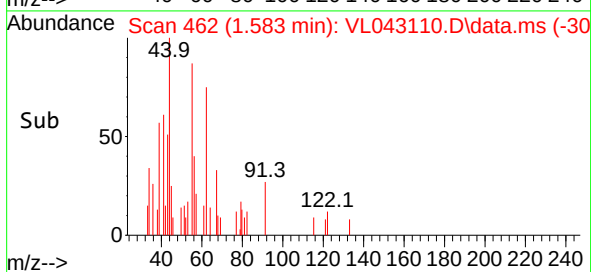
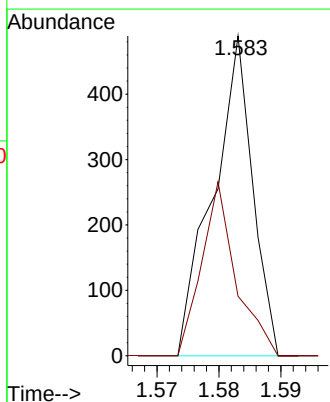
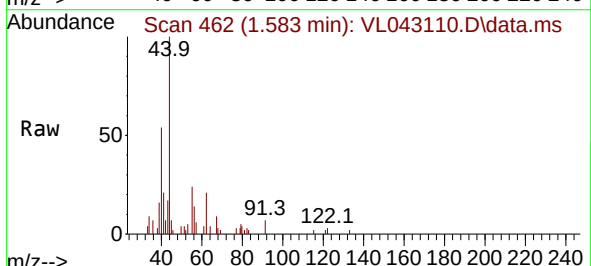
Manual Integrations  
APPROVED

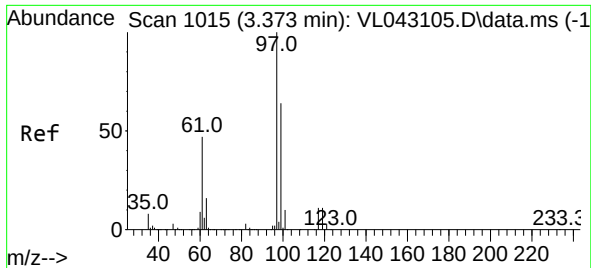
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#5  
Vinyl Chloride  
Concen: 0.039 ppbv  
RT: 1.583 min Scan# 462  
Delta R.T. -0.000 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

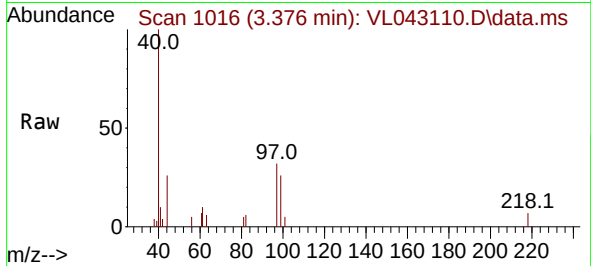
Tgt Ion: 62 Resp: 217  
Ion Ratio Lower Upper  
62 100  
64 18.6 24.6 36.8#





#32  
1,1,1-Trichloroethane  
Concen: 0.028 ppbv m  
RT: 3.376 min Scan# 1015  
Delta R.T. 0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

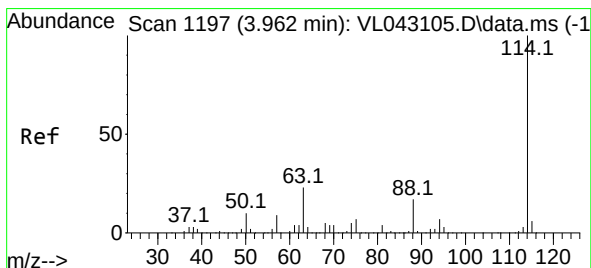
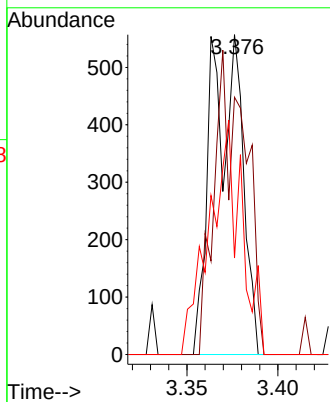
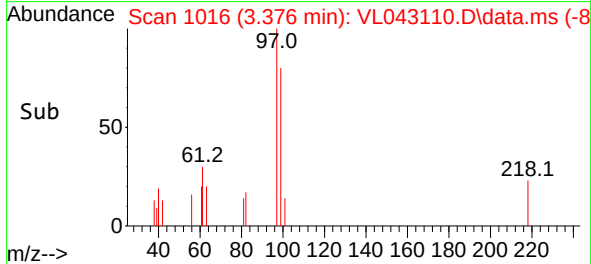
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03



Tgt Ion: 97 Resp: 650  
Ion Ratio Lower Upper  
97 100  
99 96.0 51.3 76.9  
61 77.4 38.4 57.6

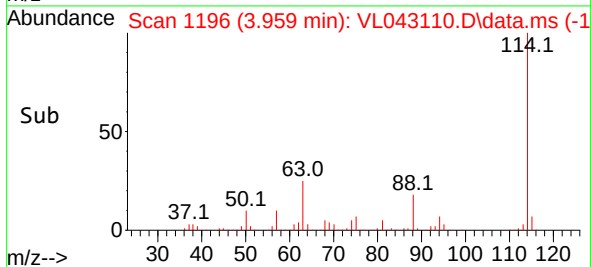
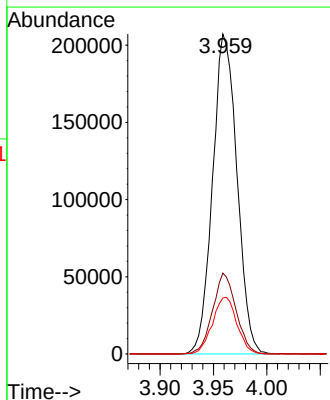
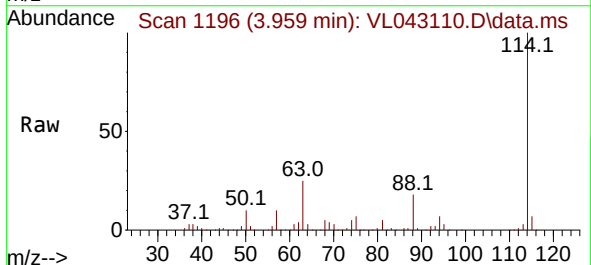
Manual Integrations  
APPROVED

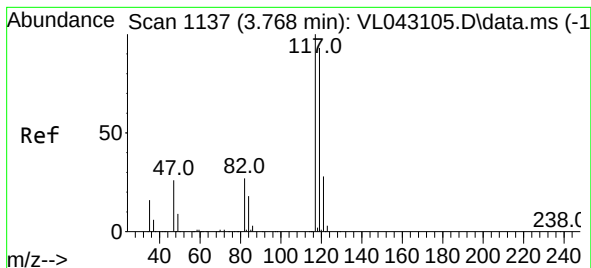
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

Tgt Ion:114 Resp: 328897  
Ion Ratio Lower Upper  
114 100  
63 24.3 19.3 28.9  
88 17.8 13.9 20.9





#35

Carbon Tetrachloride

Concen: 0.031 ppbv m

RT: 3.761 min Scan# 1135

Delta R.T. -0.007 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

Instrument :

MSVOA\_L

ClientSampleId :

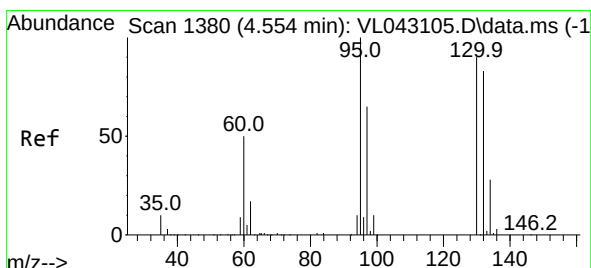
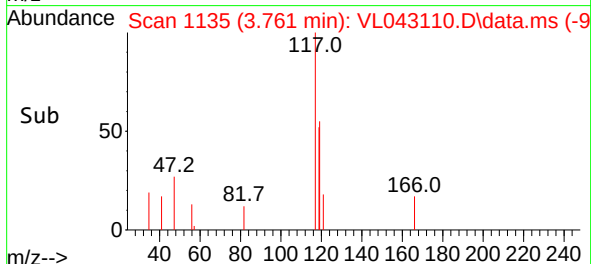
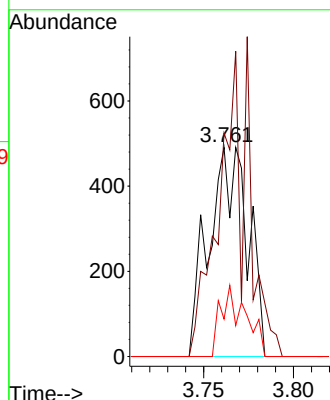
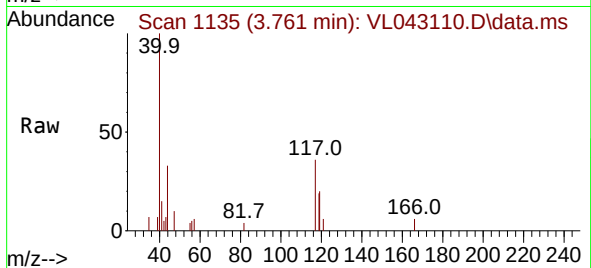
VSTDICC0.03

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:117 | Resp: | 74.1  |
| Ion Ratio   | Lower | Upper |
| 117         | 100   |       |
| 119         | 55.4  | 74.1  |
| 121         | 17.9  | 22.2  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#38

Trichloroethene

Concen: 0.035 ppbv m

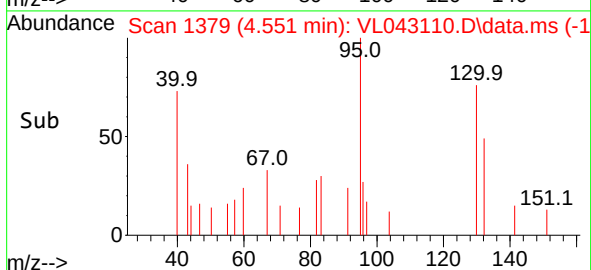
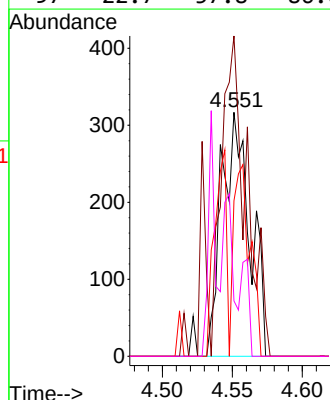
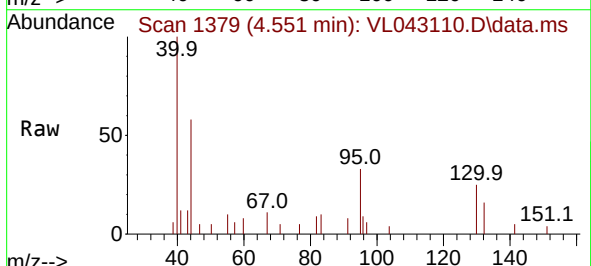
RT: 4.551 min Scan# 1379

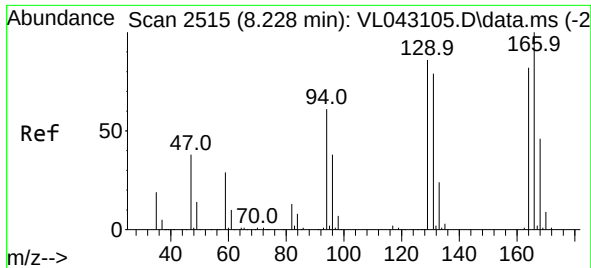
Delta R.T. -0.003 min

Lab File: VL043110.D

Acq: 14 Oct 2025 13:42

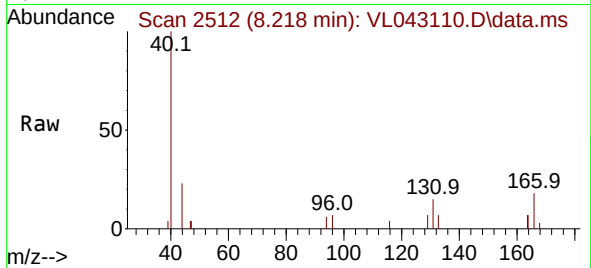
|             |       |       |
|-------------|-------|-------|
| Tgt Ion:130 | Resp: | 454   |
| Ion Ratio   | Lower | Upper |
| 130         | 100   |       |
| 95          | 131.2 | 88.6  |
| 132         | 63.7  | 73.4  |
| 97          | 22.7  | 57.8  |





#52  
Tetrachloroethene  
Concen: 0.031 ppbv m  
RT: 8.218 min Scan# 2515  
Delta R.T. -0.010 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

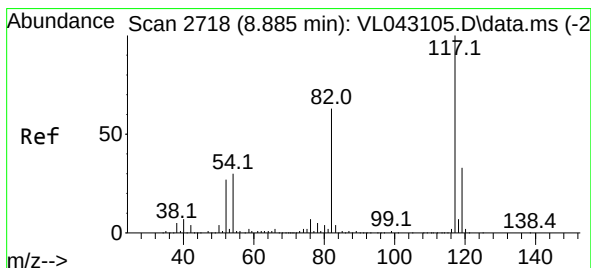
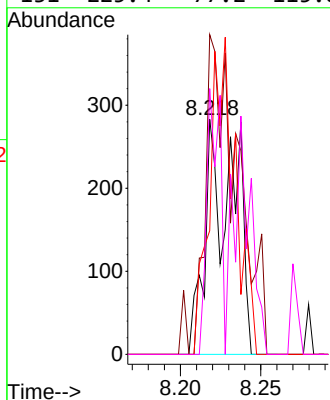
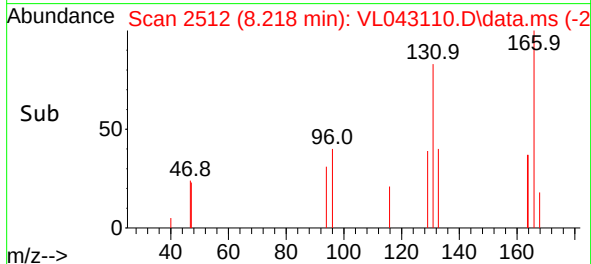
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03



Tgt Ion:164 Resp: 349  
Ion Ratio Lower Upper  
164 100  
166 271.1 97.6 146.4  
129 104.9 84.5 126.7  
131 225.4 77.2 115.8#

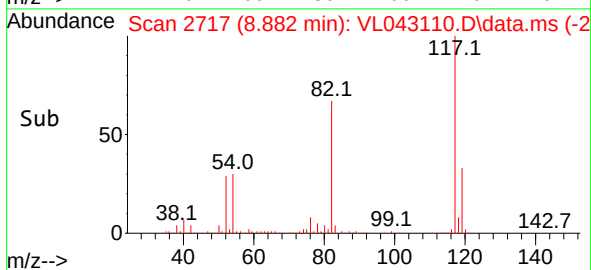
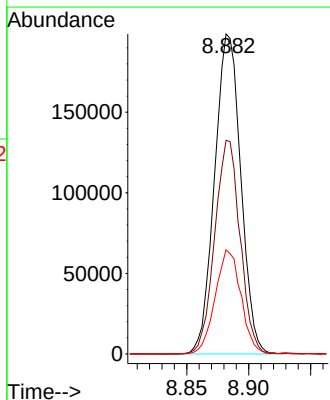
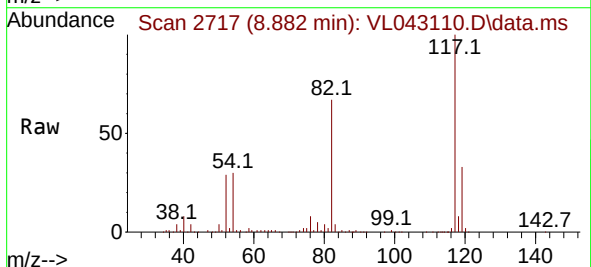
Manual Integrations  
APPROVED

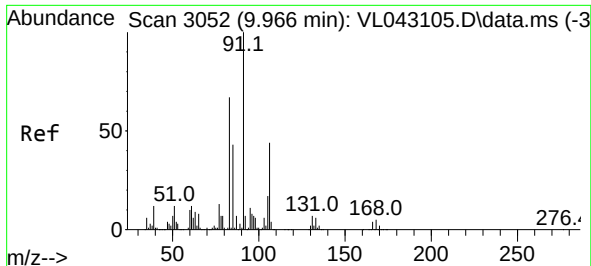
Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.882 min Scan# 2717  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

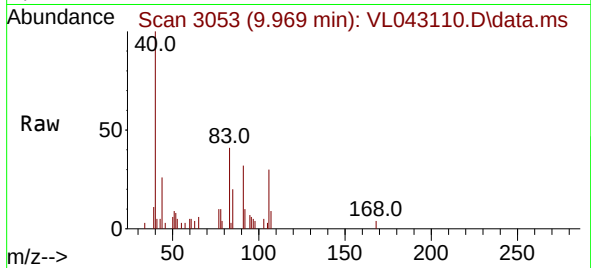
Tgt Ion:117 Resp: 292884  
Ion Ratio Lower Upper  
117 100  
82 64.7 53.8 80.8  
119 32.1 25.4 38.0





#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.034 ppbv m  
RT: 9.969 min Scan# 3052  
Delta R.T. 0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42

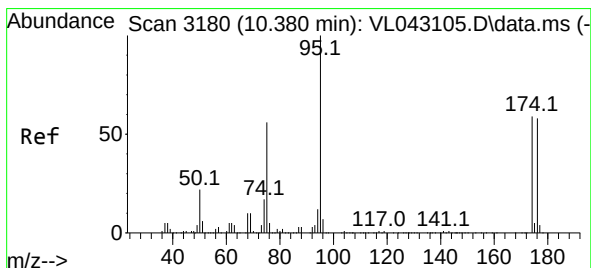
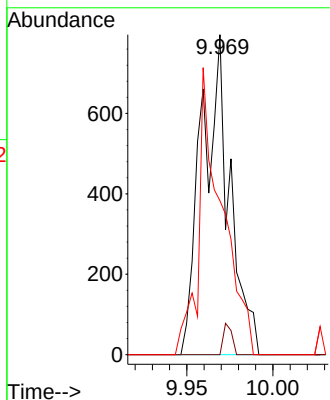
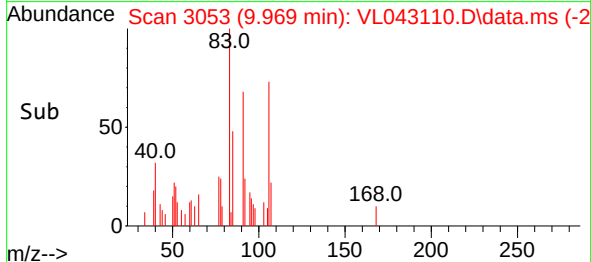
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03



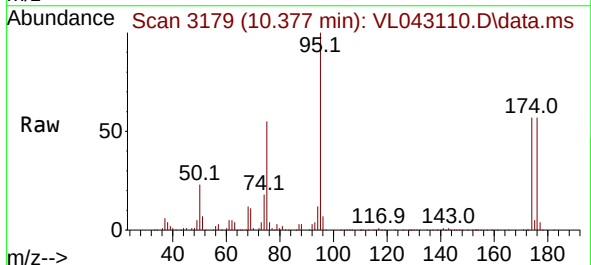
Tgt Ion: 83 Resp: 904  
Ion Ratio Lower Upper  
83 100  
131 0.0 4.8 14.3  
85 74.1 32.0 96.0

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 10/16/2025  
Supervised By :Mahesh Dadoda 10/16/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.841 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. -0.003 min  
Lab File: VL043110.D  
Acq: 14 Oct 2025 13:42



Tgt Ion: 95 Resp: 224043  
Ion Ratio Lower Upper  
95 100  
174 59.2 48.3 72.5  
175 4.7 3.8 5.8

