

Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL050125**

|                          |                      |                      |                     |
|--------------------------|----------------------|----------------------|---------------------|
| Review By                | MMDadoda             | Review On            | 5/5/2025 2:55:39 PM |
| Supervise By             |                      | Supervise On         |                     |
| SubDirectory             | VL050125             | HP Acquire Method    | TO15AIR.M           |
|                          |                      | HP Processing Method | VL050125AIR.M       |
| <b>STD. NAME</b>         | <b>STD REF.#</b>     |                      |                     |
| Tune/Reschk              | AP2603               |                      |                     |
| Initial Calibration Stds | AP2606,AP2607,AP2608 |                      |                     |
| CCC                      | AP2606               |                      |                     |
| Internal Standard/PEM    | AP2603               |                      |                     |
| ICV/I.BLK                | AP2609               |                      |                     |
| Surrogate Standard       |                      |                      |                     |
| MS/MSD Standard          |                      |                      |                     |
| LCS Standard             |                      |                      |                     |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status |
|-----|--------------|----------------|-------------------|----------|--------|
| 1   | BFB          | VL042457.D     | 01 May 2025 08:19 | SY/MD    | Ok     |
| 2   | VSTDICCC010  | VL042458.D     | 01 May 2025 09:03 | SY/MD    | Ok,M   |
| 3   | VSTDICCC002  | VL042459.D     | 01 May 2025 09:37 | SY/MD    | Ok,M   |
| 4   | VSTDICCC001  | VL042460.D     | 01 May 2025 10:08 | SY/MD    | Ok,M   |
| 5   | VSTDICCC0.5  | VL042461.D     | 01 May 2025 10:40 | SY/MD    | Ok,M   |
| 6   | VSTDICCC0.1  | VL042462.D     | 01 May 2025 11:12 | SY/MD    | Ok,M   |
| 7   | VSTDICCC0.03 | VL042463.D     | 01 May 2025 11:44 | SY/MD    | Not Ok |
| 8   | VSTDICCC0.03 | VL042464.D     | 01 May 2025 12:15 | SY/MD    | Not Ok |
| 9   | VSTDICCC015  | VL042465.D     | 01 May 2025 12:49 | SY/MD    | Ok,M   |
| 10  | VSTDICCC0.03 | VL042466.D     | 01 May 2025 14:10 | SY/MD    | Ok,M   |
| 11  | VSTDICV010   | VL042467.D     | 01 May 2025 15:46 | SY/MD    | Ok,M   |

M : Manual Integration

Instrument ID: **MSVOA\_L**

**Daily Analysis Runlog For Sequence/QC Batch ID # VL050625**

|                          |                      |                      |                     |
|--------------------------|----------------------|----------------------|---------------------|
| Review By                | MMDadoda             | Review On            | 5/9/2025 2:51:31 PM |
| Supervise By             |                      | Supervise On         |                     |
| SubDirectory             | VL050625             | HP Acquire Method    | TO15AIR.M           |
|                          |                      | HP Processing Method | VL050125AIR.M       |
| <b>STD. NAME</b>         | <b>STD REF.#</b>     |                      |                     |
| Tune/Reschk              | AP2603               |                      |                     |
| Initial Calibration Stds | AP2606,AP2607,AP2608 |                      |                     |
| CCC                      | AP2606               |                      |                     |
| Internal Standard/PEM    | AP2603               |                      |                     |
| ICV/I.BLK                | AP2609               |                      |                     |
| Surrogate Standard       |                      |                      |                     |
| MS/MSD Standard          |                      |                      |                     |
| LCS Standard             |                      |                      |                     |

| Sr# | SampleId            | Data File Name | Date-Time         | Operator | Status |
|-----|---------------------|----------------|-------------------|----------|--------|
| 1   | BFB                 | VL042486.D     | 06 May 2025 08:16 | SY/MD    | Ok     |
| 2   | VSTDCCC010          | VL042487.D     | 06 May 2025 09:00 | SY/MD    | Ok,M   |
| 3   | VL0506ABL01         | VL042488.D     | 06 May 2025 09:49 | SY/MD    | Ok     |
| 4   | VL0506ABS01         | VL042489.D     | 06 May 2025 10:44 | SY/MD    | Ok,M   |
| 5   | QC043025 CAN 10605  | VL042490.D     | 06 May 2025 11:15 | SY/MD    | Ok     |
| 6   | QC042925 CAN 10590  | VL042491.D     | 06 May 2025 11:47 | SY/MD    | Ok     |
| 7   | QC042225 CAN 10669  | VL042492.D     | 06 May 2025 12:19 | SY/MD    | Ok     |
| 8   | QC042325 CAN 10683  | VL042493.D     | 06 May 2025 12:51 | SY/MD    | Ok     |
| 9   | QC0429325 CAN 10458 | VL042494.D     | 06 May 2025 13:23 | SY/MD    | Ok     |
| 10  | MDL1 0.45           | VL042495.D     | 06 May 2025 14:26 | SY/MD    | Ok,M   |
| 11  | MDL2 0.45           | VL042496.D     | 06 May 2025 14:57 | SY/MD    | Ok,M   |
| 12  | MDL3 0.45           | VL042497.D     | 06 May 2025 15:29 | SY/MD    | Not Ok |
| 13  | MDL1 0.03           | VL042498.D     | 06 May 2025 16:01 | SY/MD    | Ok,M   |
| 14  | MDL2 0.03           | VL042499.D     | 06 May 2025 16:32 | SY/MD    | Not Ok |
| 15  | MDL3 0.03           | VL042500.D     | 06 May 2025 17:04 | SY/MD    | Ok,M   |
| 16  | MDL1 0.40           | VL042501.D     | 06 May 2025 17:36 | SY/MD    | Ok,M   |
| 17  | MDL2 0.40           | VL042502.D     | 06 May 2025 18:07 | SY/MD    | Ok,M   |
| 18  | MDL3 0.40           | VL042503.D     | 06 May 2025 18:39 | SY/MD    | Ok,M   |
| 19  | MDL1 0.1            | VL042504.D     | 06 May 2025 19:10 | SY/MD    | Ok,M   |
| 20  | MDL2 0.1            | VL042505.D     | 06 May 2025 19:42 | SY/MD    | Ok,M   |
| 21  | MDL3 0.1            | VL042506.D     | 06 May 2025 20:13 | SY/MD    | Ok,M   |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL050625**

| Review By                | MMDadoda             | Review On            | 5/9/2025 2:51:31 PM |
|--------------------------|----------------------|----------------------|---------------------|
| Supervise By             |                      | Supervise On         |                     |
| SubDirectory             | VL050625             | HP Acquire Method    | TO15AIR.M           |
|                          |                      | HP Processing Method | VL050125AIR.M       |
| STD. NAME                | STD REF.#            |                      |                     |
| Tune/Reschk              | AP2603               |                      |                     |
| Initial Calibration Stds | AP2606,AP2607,AP2608 |                      |                     |
| CCC                      | AP2606               |                      |                     |
| Internal Standard/PEM    | AP2603               |                      |                     |
| ICV/I.BLK                | AP2609               |                      |                     |
| Surrogate Standard       |                      |                      |                     |
| MS/MSD Standard          |                      |                      |                     |
| LCS Standard             |                      |                      |                     |

|    |            |            |                   |       |      |
|----|------------|------------|-------------------|-------|------|
| 22 | VSTDCCC010 | VL042507.D | 06 May 2025 20:45 | SY/MD | Ok,M |
|----|------------|------------|-------------------|-------|------|

M : Manual Integration

## Process Report

**Order ID :** Q2432

| Date       | Bottle ID | Lab Sample Number | InComing Vacuum | Canister ID | Can Size | Reg ID | Reg Size | Batch Code | Certification ID                                                                                                     |
|------------|-----------|-------------------|-----------------|-------------|----------|--------|----------|------------|----------------------------------------------------------------------------------------------------------------------|
| 06/26/2025 | B2506057  | Q2432-01          | -6.7            | 10311       | 6 L      | 10707  |          | C2504016   | <b>VL042490.D</b><br>Seq :vl050625<br>TUNE : VL042486.D<br>ICAL : VL042466.D<br>CCAL : VL042487.D<br>MB : VL042488.D |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042458.D  
 Acq On : 01 May 2025 09:03  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/02/2025  
 Supervised By : Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:39:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 71402    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.955 | 114  | 201290   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 174168   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 165650 10.258 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.600%

Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 104948 | 8.882  | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 112008 | 8.966  | ppbv   | 100    |
| 4) Chloromethane              | 1.531 | 50  | 44585  | 9.028  | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.580 | 62  | 40466  | 8.138  | ppbv   | 100    |
| 6) Bromomethane               | 1.667 | 94  | 20392  | 8.680  | ppbv   | 100    |
| 7) Chloroethane               | 1.703 | 64  | 16528  | 9.002  | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 88162  | 9.051  | ppbv   | 100    |
| 9) Propene                    | 1.483 | 41  | 37491  | 9.175  | ppbv   | 100    |
| 10) Heptane                   | 4.978 | 43  | 103167 | 9.733  | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.874 | 101 | 98215  | 9.320  | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 78482  | 9.015  | ppbv   | 100    |
| 13) Ethanol                   | 1.719 | 45  | 5679   | 6.849  | ppbv   | 100    |
| 14) Bromoethene               | 1.780 | 108 | 28440  | 8.849  | ppbv   | 100    |
| 15) Acetone                   | 1.835 | 43  | 94092  | 7.219  | ppbv   | 100    |
| 16) 1,3-Butadiene             | 1.609 | 39  | 48641  | 8.461  | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 106304 | 9.257  | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 35320  | 8.689  | ppbv   | 100    |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 62533  | 8.668  | ppbv   | 100    |
| 20) Methylene Chloride        | 2.059 | 84  | 32039  | 8.176  | ppbv   | 100    |
| 21) Allyl Chloride            | 2.094 | 41  | 76859  | 9.169  | ppbv   | 100    |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 39427  | 8.305  | ppbv   | 100    |
| 23) Vinyl Acetate             | 2.460 | 43  | 123215 | 10.146 | ppbv   | 100    |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 85367  | 8.814  | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.835 | 43  | 202215 | 9.689  | ppbv   | 100    |
| 26) Hexane                    | 2.826 | 57  | 86764  | 9.543  | ppbv   | 100    |
| 27) Carbon Disulfide          | 2.146 | 76  | 101248 | 9.542  | ppbv # | 92     |
| 28) Methyl tert-Butyl Ether   | 2.437 | 73  | 47941  | 8.777  | ppbv   | 100    |
| 29) Chloroform                | 2.848 | 83  | 156976 | 9.213  | ppbv   | 100    |
| 30) Cyclohexane               | 3.855 | 84  | 74614  | 9.815  | ppbv   | 100    |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 95797  | 9.031  | ppbv   | 100    |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 163334 | 8.836  | ppbv   | 100    |
| 34) 2-Butanone                | 2.557 | 43  | 132685 | 9.113  | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.758 | 117 | 166490 | 9.511  | ppbv   | 100    |
| 36) Benzene                   | 3.654 | 78  | 179532 | 9.451  | ppbv   | 100    |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 133963 | 9.150  | ppbv   | 100    |
| 38) Trichloroethene           | 4.544 | 130 | 69846  | 9.642  | ppbv   | 100    |
| 39) 1,2-Dichloropropane       | 4.311 | 63  | 63894  | 8.979  | ppbv   | 100    |
| 40) 1,4-Dioxane               | 4.583 | 88  | 30303m | 9.161  | ppbv   |        |
| 41) Tetrahydrofuran           | 3.052 | 42  | 65713  | 9.516  | ppbv   | 100    |
| 42) Bromodichloromethane      | 4.486 | 83  | 168957 | 9.445  | ppbv   | 100    |
| 43) Methyl Methacrylate       | 4.881 | 69  | 73117  | 10.339 | ppbv   | 100    |
| 44) 2,2,4-Trimethylpentane    | 4.635 | 57  | 289161 | 9.420  | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 6.412 | 75  | 96692  | 10.385 | ppbv   | 100    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042458.D  
 Acq On : 01 May 2025 09:03  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025  
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:39:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 111768   | 10.111 | ppbv  | 100      |
| 47) 1,1,2-Trichloroethane     | 6.580  | 97   | 71805    | 9.207  | ppbv  | 100      |
| 48) Dibromochloromethane      | 7.386  | 129  | 126754   | 9.628  | ppbv  | 100      |
| 49) Bromoform                 | 9.480  | 173  | 106108   | 9.610  | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 175193   | 9.518  | ppbv  | 100      |
| 51) 2-Hexanone                | 7.435  | 43   | 145272   | 9.855  | ppbv  | 100      |
| 52) Tetrachloroethene         | 8.224  | 164  | 61456    | 8.500  | ppbv  | 100      |
| 53) Toluene                   | 6.930  | 91   | 204494   | 10.171 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 7.648  | 107  | 111506   | 9.300  | ppbv  | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 94346    | 9.172  | ppbv  | 99       |
| 57) Chlorobenzene             | 8.920  | 112  | 157401   | 8.994  | ppbv  | 100      |
| 58) Ethyl Benzene             | 9.354  | 91   | 300412   | 10.321 | ppbv  | 100      |
| 59) m/p-Xylene                | 9.529  | 91   | 497922m  | 20.404 | ppbv  |          |
| 60) o-Xylene                  | 9.963  | 91   | 247784   | 10.157 | ppbv  | 100      |
| 61) Styrene                   | 9.872  | 104  | 101509   | 11.134 | ppbv  | 100      |
| 62) Isopropylbenzene          | 10.539 | 105  | 354055   | 10.047 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 147295   | 9.305  | ppbv  | 100      |
| 64) n-propylbenzene           | 10.989 | 120  | 84006    | 9.787  | ppbv  | 100      |
| 65) tert-Butylbenzene         | 11.529 | 119  | 316532   | 10.065 | ppbv  | 100      |
| 66) Benzyl Chloride           | 11.613 | 91   | 40331    | 11.096 | ppbv  | 100      |
| 67) sec-Butylbenzene          | 11.769 | 105  | 442600   | 9.903  | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 374540   | 9.947  | ppbv  | 100      |
| 70) n-Butylbenzene            | 12.280 | 91   | 382883   | 9.836  | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 278215   | 10.065 | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 11.124 | 105  | 299831   | 10.409 | ppbv  | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 256952   | 10.143 | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 286615   | 9.351  | ppbv  | 100      |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 155598   | 9.118  | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 157966   | 9.782  | ppbv  | 100      |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 150432   | 9.007  | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 134402   | 8.058  | ppbv  | 100      |
| 79) Naphthalene               | 13.513 | 128  | 266036   | 10.352 | ppbv  | 100      |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 204042   | 10.641 | ppbv  | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 135473   | 9.844  | ppbv  | 100      |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042459.D  
 Acq On : 01 May 2025 09:37  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/02/2025  
 Supervised By : Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:40:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 73220    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.955 | 114  | 201951   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 174624   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 159777 9.869 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.700%

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 23859  | 1.969 | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 26655  | 2.081 | ppbv   | 95     |
| 4) Chloromethane              | 1.531 | 50  | 10751  | 2.123 | ppbv   | 95     |
| 5) Vinyl Chloride             | 1.580 | 62  | 9122   | 1.789 | ppbv   | 92     |
| 6) Bromomethane               | 1.667 | 94  | 4793   | 1.990 | ppbv # | 62     |
| 7) Chloroethane               | 1.703 | 64  | 3972   | 2.110 | ppbv   | 94     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 20529  | 2.055 | ppbv   | 100    |
| 9) Propene                    | 1.482 | 41  | 9234   | 2.204 | ppbv   | 95     |
| 10) Heptane                   | 4.978 | 43  | 23329m | 2.146 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 22375  | 2.070 | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 18230  | 2.042 | ppbv   | 97     |
| 13) Ethanol                   | 1.722 | 45  | 2099   | 2.468 | ppbv   | 94     |
| 14) Bromoethene               | 1.780 | 108 | 6686   | 2.029 | ppbv # | 96     |
| 15) Acetone                   | 1.835 | 43  | 29607  | 2.215 | ppbv   | 99     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 12245  | 2.077 | ppbv   | 92     |
| 17) tert-Butyl alcohol        | 2.042 | 59  | 23722  | 2.014 | ppbv # | 93     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 8303   | 1.992 | ppbv   | 92     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 14288  | 1.931 | ppbv   | 99     |
| 20) Methylene Chloride        | 2.062 | 84  | 7590   | 1.889 | ppbv   | 96     |
| 21) Allyl Chloride            | 2.094 | 41  | 17050  | 1.983 | ppbv   | 96     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 9444   | 1.940 | ppbv   | 97     |
| 23) Vinyl Acetate             | 2.463 | 43  | 26502  | 2.128 | ppbv   | 98     |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 20027  | 2.016 | ppbv   | 98     |
| 25) Ethyl Acetate             | 2.839 | 43  | 43122  | 2.015 | ppbv   | 97     |
| 26) Hexane                    | 2.822 | 57  | 19691  | 2.112 | ppbv   | 95     |
| 27) Carbon Disulfide          | 2.149 | 76  | 21945  | 2.017 | ppbv # | 43     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 11119  | 1.985 | ppbv   | 94     |
| 29) Chloroform                | 2.848 | 83  | 35127  | 2.010 | ppbv   | 86     |
| 30) Cyclohexane               | 3.858 | 84  | 16056  | 2.060 | ppbv   | 95     |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 22619  | 2.079 | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane     | 3.369 | 97  | 36768  | 1.940 | ppbv   | 99     |
| 34) 2-Butanone                | 2.557 | 43  | 31242  | 2.139 | ppbv   | 95     |
| 35) Carbon Tetrachloride      | 3.764 | 117 | 35326  | 2.011 | ppbv   | 97     |
| 36) Benzene                   | 3.661 | 78  | 41848  | 2.196 | ppbv # | 88     |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 31049  | 2.114 | ppbv   | 99     |
| 38) Trichloroethene           | 4.544 | 130 | 16311m | 2.244 | ppbv   |        |
| 39) 1,2-Dichloropropane       | 4.311 | 63  | 14611  | 2.047 | ppbv   | 91     |
| 40) 1,4-Dioxane               | 4.593 | 88  | 6957m  | 2.096 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.059 | 42  | 15641m | 2.258 | ppbv   |        |
| 42) Bromodichloromethane      | 4.489 | 83  | 37615  | 2.096 | ppbv # | 99     |
| 43) Methyl Methacrylate       | 4.884 | 69  | 14610m | 2.059 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 4.638 | 57  | 65967  | 2.142 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.409 | 75  | 18560m | 1.987 | ppbv   |        |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042459.D  
 Acq On : 01 May 2025 09:37  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025  
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:40:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 22184    | 2.000 | ppbv   | 93       |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 17307m   | 2.212 | ppbv   |          |
| 48) Dibromochloromethane      | 7.386  | 129  | 27174    | 2.057 | ppbv   | 99       |
| 49) Bromoform                 | 9.483  | 173  | 23126    | 2.088 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.758  | 43   | 39798    | 2.155 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.441  | 43   | 32196    | 2.177 | ppbv # | 97       |
| 52) Tetrachloroethene         | 8.224  | 164  | 13670    | 1.885 | ppbv   | 93       |
| 53) Toluene                   | 6.930  | 91   | 41392    | 2.052 | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 24650    | 2.049 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 20822    | 2.019 | ppbv   | 95       |
| 57) Chlorobenzene             | 8.920  | 112  | 36187    | 2.062 | ppbv # | 88       |
| 58) Ethyl Benzene             | 9.354  | 91   | 61177    | 2.096 | ppbv   | 91       |
| 59) m/p-Xylene                | 9.551  | 91   | 105185m  | 4.299 | ppbv   |          |
| 60) o-Xylene                  | 9.963  | 91   | 53051    | 2.169 | ppbv   | 99       |
| 61) Styrene                   | 9.872  | 104  | 18776    | 2.054 | ppbv   | 97       |
| 62) Isopropylbenzene          | 10.539 | 105  | 75626    | 2.140 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 34562    | 2.178 | ppbv   | 98       |
| 64) n-propylbenzene           | 10.989 | 120  | 19160    | 2.226 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 70813    | 2.246 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.613 | 91   | 6794     | 1.864 | ppbv   | 97       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 101458   | 2.264 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 84026    | 2.226 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.280 | 91   | 89400    | 2.291 | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 59271    | 2.139 | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 11.124 | 105  | 63833    | 2.210 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.205 | 105  | 56516    | 2.225 | ppbv   | 94       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 72485    | 2.359 | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 36885    | 2.156 | ppbv   | 97       |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 33728    | 2.083 | ppbv   | 94       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 36078    | 2.154 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 37360    | 2.234 | ppbv   | 99       |
| 79) Naphthalene               | 13.513 | 128  | 75248    | 2.920 | ppbv   | 96       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 54922    | 2.857 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 33063    | 2.396 | ppbv   | 95       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042460.D  
 Acq On : 01 May 2025 10:08  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/02/2025  
 Supervised By : Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:41:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 71499    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.955 | 114  | 200111   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.881 | 117  | 170872   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 158600 10.011 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.100%

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 11796  | 0.997 | ppbv   | 96     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 13375  | 1.069 | ppbv   | 96     |
| 4) Chloromethane              | 1.531 | 50  | 4975   | 1.006 | ppbv   | 95     |
| 5) Vinyl Chloride             | 1.576 | 62  | 4469   | 0.898 | ppbv   | 100    |
| 6) Bromomethane               | 1.667 | 94  | 2570   | 1.092 | ppbv   | 86     |
| 7) Chloroethane               | 1.703 | 64  | 1943   | 1.057 | ppbv   | 94     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 9804   | 1.005 | ppbv   | 91     |
| 9) Propene                    | 1.482 | 41  | 4331   | 1.058 | ppbv   | 88     |
| 10) Heptane                   | 4.975 | 43  | 11681m | 1.101 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 10649m | 1.009 | ppbv   |        |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 8821   | 1.012 | ppbv   | 97     |
| 13) Ethanol                   | 1.719 | 45  | 975    | 1.174 | ppbv # | 52     |
| 14) Bromoethene               | 1.780 | 108 | 3164   | 0.983 | ppbv # | 91     |
| 15) Acetone                   | 1.835 | 43  | 14974  | 1.147 | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 6248   | 1.085 | ppbv   | 96     |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 11546  | 1.004 | ppbv # | 91     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 4200   | 1.032 | ppbv   | 86     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 7775   | 1.076 | ppbv   | 99     |
| 20) Methylene Chloride        | 2.059 | 84  | 3909   | 0.996 | ppbv   | 86     |
| 21) Allyl Chloride            | 2.094 | 41  | 8443   | 1.006 | ppbv   | 94     |
| 22) trans-1,2-Dichloroethene  | 2.337 | 96  | 5305   | 1.116 | ppbv   | 88     |
| 23) Vinyl Acetate             | 2.460 | 43  | 10876  | 0.894 | ppbv # | 94     |
| 24) 1,1-Dichloroethane        | 2.405 | 63  | 10477  | 1.080 | ppbv   | 97     |
| 25) Ethyl Acetate             | 2.835 | 43  | 21761  | 1.041 | ppbv   | 99     |
| 26) Hexane                    | 2.822 | 57  | 9223   | 1.013 | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.149 | 76  | 10342  | 0.973 | ppbv # | 21     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 6101   | 1.115 | ppbv   | 93     |
| 29) Chloroform                | 2.848 | 83  | 17744  | 1.040 | ppbv   | 97     |
| 30) Cyclohexane               | 3.852 | 84  | 7139   | 0.938 | ppbv   | 88     |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 11472  | 1.080 | ppbv   | 87     |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 17881  | 0.966 | ppbv   | 98     |
| 34) 2-Butanone                | 2.560 | 43  | 14641  | 1.012 | ppbv   | 94     |
| 35) Carbon Tetrachloride      | 3.755 | 117 | 18704  | 1.075 | ppbv # | 76     |
| 36) Benzene                   | 3.654 | 78  | 19493  | 1.032 | ppbv # | 94     |
| 37) 1,2-Dichloroethane        | 3.214 | 62  | 15116  | 1.039 | ppbv   | 98     |
| 38) Trichloroethene           | 4.541 | 130 | 7278m  | 1.011 | ppbv   |        |
| 39) 1,2-Dichloropropane       | 4.302 | 63  | 8103m  | 1.145 | ppbv   |        |
| 40) 1,4-Dioxane               | 4.593 | 88  | 3703m  | 1.126 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.062 | 42  | 7091m  | 1.033 | ppbv   |        |
| 42) Bromodichloromethane      | 4.486 | 83  | 18427  | 1.036 | ppbv # | 81     |
| 43) Methyl Methacrylate       | 4.874 | 69  | 6829m  | 0.971 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 4.635 | 57  | 31820m | 1.043 | ppbv   |        |
| 45) t-1,3-Dichloropropene     | 6.409 | 75  | 8461m  | 0.914 | ppbv   |        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042460.D  
 Acq On : 01 May 2025 10:08  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025  
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:41:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.596  | 75   | 10781m   | 0.981 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.583  | 97   | 8183m    | 1.055 | ppbv   |          |
| 48) Dibromochloromethane      | 7.386  | 129  | 12859m   | 0.982 | ppbv   |          |
| 49) Bromoform                 | 9.483  | 173  | 10709    | 0.976 | ppbv   | 97       |
| 50) 4-Methyl-2-Pentanone      | 5.768  | 43   | 19618m   | 1.072 | ppbv   |          |
| 51) 2-Hexanone                | 7.448  | 43   | 15091m   | 1.030 | ppbv   |          |
| 52) Tetrachloroethene         | 8.221  | 164  | 6780     | 0.943 | ppbv   | 86       |
| 53) Toluene                   | 6.930  | 91   | 19390    | 0.970 | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 11980    | 1.005 | ppbv   | 91       |
| 56) 1,1,1,2-Tetrachloroethane | 8.920  | 131  | 10811    | 1.071 | ppbv   | 94       |
| 57) Chlorobenzene             | 8.917  | 112  | 18111    | 1.055 | ppbv   | 90       |
| 58) Ethyl Benzene             | 9.354  | 91   | 27914    | 0.978 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.548  | 91   | 47105m   | 1.968 | ppbv   |          |
| 60) o-Xylene                  | 9.962  | 91   | 23806    | 0.995 | ppbv   | 98       |
| 61) Styrene                   | 9.872  | 104  | 8537     | 0.954 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.539 | 105  | 34679    | 1.003 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.962  | 83   | 16837    | 1.084 | ppbv   | 98       |
| 64) n-propylbenzene           | 10.985 | 120  | 8958     | 1.064 | ppbv   | 86       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 30604    | 0.992 | ppbv   | 95       |
| 66) Benzyl Chloride           | 11.613 | 91   | 3486     | 0.978 | ppbv # | 96       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 43740    | 0.998 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 37011    | 1.002 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.280 | 91   | 37892    | 0.992 | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 26813    | 0.989 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.124 | 105  | 28149    | 0.996 | ppbv   | 96       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 25073    | 1.009 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.535 | 105  | 30550    | 1.016 | ppbv   | 92       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 17456    | 1.043 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.671 | 146  | 16151    | 1.019 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 17207    | 1.050 | ppbv   | 94       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 18472    | 1.129 | ppbv   | 98       |
| 79) Naphthalene               | 13.513 | 128  | 28316    | 1.123 | ppbv # | 94       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 15804    | 0.840 | ppbv   | 93       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 13644    | 1.011 | ppbv   | 96       |

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042461.D  
 Acq On : 01 May 2025 10:40  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/02/2025  
 Supervised By : Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:42:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 68913    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 193701   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 166625   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 150277 9.728 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.300%

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 6501   | 0.570 | ppbv   | 94     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 6500   | 0.539 | ppbv   | 99     |
| 4) Chloromethane              | 1.535 | 50  | 2542   | 0.533 | ppbv   | 95     |
| 5) Vinyl Chloride             | 1.580 | 62  | 2441   | 0.509 | ppbv   | 92     |
| 6) Bromomethane               | 1.667 | 94  | 1202   | 0.530 | ppbv   | 97     |
| 7) Chloroethane               | 1.703 | 64  | 862    | 0.486 | ppbv # | 68     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 4979   | 0.530 | ppbv   | 93     |
| 9) Propene                    | 1.486 | 41  | 2017   | 0.511 | ppbv   | 96     |
| 10) Heptane                   | 4.982 | 43  | 4397m  | 0.430 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 5720   | 0.562 | ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 4540   | 0.540 | ppbv   | 94     |
| 13) Ethanol                   | 1.722 | 45  | 474m   | 0.592 | ppbv   |        |
| 14) Bromoethene               | 1.784 | 108 | 1680   | 0.542 | ppbv # | 87     |
| 15) Acetone                   | 1.839 | 43  | 7680   | 0.610 | ppbv # | 82     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 3044   | 0.549 | ppbv   | 86     |
| 17) tert-Butyl alcohol        | 2.046 | 59  | 6256   | 0.564 | ppbv # | 91     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 2240   | 0.571 | ppbv   | 94     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 4208   | 0.604 | ppbv # | 96     |
| 20) Methylene Chloride        | 2.062 | 84  | 2594   | 0.686 | ppbv # | 80     |
| 21) Allyl Chloride            | 2.098 | 41  | 4420   | 0.546 | ppbv # | 93     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 2554   | 0.557 | ppbv   | 95     |
| 23) Vinyl Acetate             | 2.460 | 43  | 6541   | 0.558 | ppbv # | 95     |
| 24) 1,1-Dichloroethane        | 2.412 | 63  | 4933   | 0.528 | ppbv   | 98     |
| 25) Ethyl Acetate             | 2.842 | 43  | 10344  | 0.514 | ppbv # | 96     |
| 26) Hexane                    | 2.829 | 57  | 4403   | 0.502 | ppbv   | 95     |
| 27) Carbon Disulfide          | 2.153 | 76  | 5201   | 0.508 | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 2762   | 0.524 | ppbv # | 82     |
| 29) Chloroform                | 2.852 | 83  | 8791   | 0.535 | ppbv   | 92     |
| 30) Cyclohexane               | 3.855 | 84  | 3910m  | 0.533 | ppbv   |        |
| 31) cis-1,2-Dichloroethene    | 2.726 | 61  | 5345m  | 0.522 | ppbv   |        |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 8846m  | 0.496 | ppbv   |        |
| 34) 2-Butanone                | 2.564 | 43  | 7766   | 0.554 | ppbv   | 93     |
| 35) Carbon Tetrachloride      | 3.768 | 117 | 8286   | 0.492 | ppbv   | 86     |
| 36) Benzene                   | 3.655 | 78  | 8951   | 0.490 | ppbv # | 92     |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 7149   | 0.507 | ppbv # | 95     |
| 38) Trichloroethene           | 4.548 | 130 | 3769m  | 0.541 | ppbv   |        |
| 39) 1,2-Dichloropropane       | 4.321 | 63  | 3561m  | 0.520 | ppbv   |        |
| 40) 1,4-Dioxane               | 4.619 | 88  | 1701m  | 0.534 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.069 | 42  | 3187m  | 0.480 | ppbv   |        |
| 42) Bromodichloromethane      | 4.496 | 83  | 8212   | 0.477 | ppbv   | 93     |
| 43) Methyl Methacrylate       | 4.891 | 69  | 3179m  | 0.467 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 4.648 | 57  | 14435m | 0.489 | ppbv   |        |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 4238m  | 0.473 | ppbv   |        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042461.D  
 Acq On : 01 May 2025 10:40  
 Operator : SY/MD  
 Sample : VSTDIC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025  
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:42:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 5091m    | 0.479 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.584  | 97   | 3606m    | 0.480 | ppbv   |          |
| 48) Dibromochloromethane      | 7.390  | 129  | 6304m    | 0.498 | ppbv   |          |
| 49) Bromoform                 | 9.484  | 173  | 5228     | 0.492 | ppbv   | 97       |
| 50) 4-Methyl-2-Pentanone      | 5.771  | 43   | 8248m    | 0.466 | ppbv   |          |
| 51) 2-Hexanone                | 7.454  | 43   | 6283m    | 0.443 | ppbv   |          |
| 52) Tetrachloroethene         | 8.221  | 164  | 3151m    | 0.453 | ppbv   |          |
| 53) Toluene                   | 6.933  | 91   | 9052m    | 0.468 | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 5705     | 0.494 | ppbv   | 83       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 5152     | 0.524 | ppbv # | 92       |
| 57) Chlorobenzene             | 8.924  | 112  | 9173     | 0.548 | ppbv # | 86       |
| 58) Ethyl Benzene             | 9.357  | 91   | 12427    | 0.446 | ppbv   | 90       |
| 59) m/p-Xylene                | 9.552  | 91   | 20195m   | 0.865 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 9976m    | 0.427 | ppbv   |          |
| 61) Styrene                   | 9.872  | 104  | 3457m    | 0.396 | ppbv   |          |
| 62) Isopropylbenzene          | 10.545 | 105  | 14837    | 0.440 | ppbv   | 95       |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 8135     | 0.537 | ppbv   | 96       |
| 64) n-propylbenzene           | 10.992 | 120  | 3329m    | 0.405 | ppbv   |          |
| 65) tert-Butylbenzene         | 11.536 | 119  | 12655    | 0.421 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.613 | 91   | 1317m    | 0.379 | ppbv   |          |
| 67) sec-Butylbenzene          | 11.769 | 105  | 17905    | 0.419 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 15036    | 0.417 | ppbv   | 94       |
| 70) n-Butylbenzene            | 12.283 | 91   | 15016    | 0.403 | ppbv   | 93       |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 11702    | 0.443 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 10671    | 0.387 | ppbv # | 91       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 9808     | 0.405 | ppbv   | 89       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 13060    | 0.445 | ppbv # | 83       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 8127     | 0.498 | ppbv   | 96       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 7238     | 0.469 | ppbv   | 96       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 8141     | 0.509 | ppbv   | 94       |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 8565     | 0.537 | ppbv   | 99       |
| 79) Naphthalene               | 13.517 | 128  | 9735m    | 0.396 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 4153     | 0.226 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 4992     | 0.379 | ppbv   | 98       |

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042462.D  
 Acq On : 01 May 2025 11:12  
 Operator : SY/MD  
 Sample : VSTDICC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025  
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:43:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 65449    | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.959  | 114   | 186907   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.882  | 117   | 157618   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 143644   | 9.830    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 98.300%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.580  | 62    | 631      | 0.138    | ppbv # | 53       |
| 32) 1,1,1-Trichloroethane     | 3.363  | 97    | 1860m    | 0.110    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.758  | 117   | 1493     | 0.092    | ppbv # | 55       |
| 38) Trichloroethene           | 4.551  | 130   | 784m     | 0.117    | ppbv   |          |
| 52) Tetrachloroethene         | 8.221  | 164   | 710m     | 0.106    | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.665  | 107   | 1169m    | 0.105    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83    | 1490     | 0.104    | ppbv # | 75       |
| 79) Naphthalene               | 13.517 | 128   | 1135m    | 0.049    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

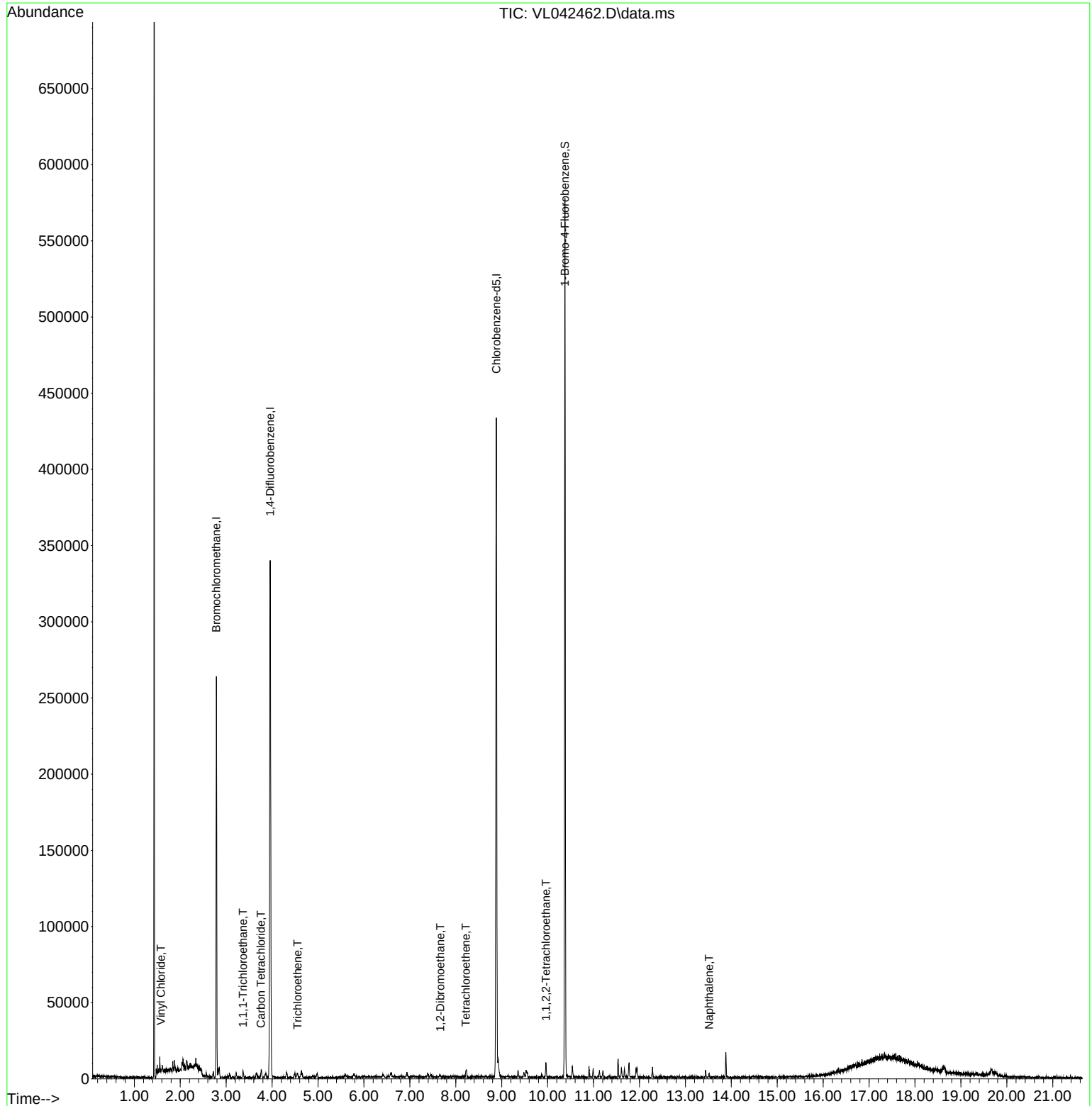
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
Data File : VL042462.D  
Acq On : 01 May 2025 11:12  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025  
Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:43:00 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri May 02 01:37:48 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042465.D  
 Acq On : 01 May 2025 12:49  
 Operator : SY/MD  
 Sample : VSTDICC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025  
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:45:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 64314    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 178877   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 157673   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 151837 10.387 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.900%

#### Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 158069 | 14.852 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 154556 | 13.735 | ppbv   | 100    |
| 4) Chloromethane              | 1.535 | 50  | 64267  | 14.447 | ppbv   | 95     |
| 5) Vinyl Chloride             | 1.580 | 62  | 60873  | 13.592 | ppbv   | 98     |
| 6) Bromomethane               | 1.667 | 94  | 31246  | 14.766 | ppbv   | 87     |
| 7) Chloroethane               | 1.703 | 64  | 25181  | 15.227 | ppbv   | 92     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 131995 | 15.044 | ppbv   | 99     |
| 9) Propene                    | 1.486 | 41  | 49647  | 13.489 | ppbv   | 99     |
| 10) Heptane                   | 4.982 | 43  | 142235 | 14.898 | ppbv   | 100    |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 152655 | 16.082 | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 115855 | 14.775 | ppbv   | 96     |
| 13) Ethanol                   | 1.722 | 45  | 8090   | 10.832 | ppbv   | 98     |
| 14) Bromoethene               | 1.781 | 108 | 44928  | 15.519 | ppbv   | 96     |
| 15) Acetone                   | 1.836 | 43  | 141306 | 12.036 | ppbv   | 99     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 72455  | 13.992 | ppbv   | 98     |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 144935 | 14.012 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 52813  | 14.424 | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 86000  | 13.235 | ppbv # | 1      |
| 20) Methylene Chloride        | 2.062 | 84  | 46063  | 13.050 | ppbv   | 94     |
| 21) Allyl Chloride            | 2.098 | 41  | 112451 | 14.893 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 2.341 | 96  | 62153  | 14.534 | ppbv   | 100    |
| 23) Vinyl Acetate             | 2.464 | 43  | 169418 | 15.489 | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 2.409 | 63  | 127567 | 14.622 | ppbv   | 97     |
| 25) Ethyl Acetate             | 2.836 | 43  | 269372 | 14.329 | ppbv   | 100    |
| 26) Hexane                    | 2.826 | 57  | 119552 | 14.598 | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.150 | 76  | 150258 | 15.722 | ppbv # | 92     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 71341  | 14.500 | ppbv   | 99     |
| 29) Chloroform                | 2.849 | 83  | 221976 | 14.464 | ppbv   | 99     |
| 30) Cyclohexane               | 3.859 | 84  | 101146 | 14.771 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene    | 2.723 | 61  | 133735 | 13.997 | ppbv   | 93     |
| 32) 1,1,1-Trichloroethane     | 3.370 | 97  | 234752 | 14.099 | ppbv   | 99     |
| 34) 2-Butanone                | 2.557 | 43  | 174521 | 13.488 | ppbv   | 97     |
| 35) Carbon Tetrachloride      | 3.765 | 117 | 242144 | 15.566 | ppbv   | 99     |
| 36) Benzene                   | 3.658 | 78  | 239352 | 14.179 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.221 | 62  | 190179 | 14.618 | ppbv   | 98     |
| 38) Trichloroethene           | 4.551 | 130 | 95257  | 14.798 | ppbv   | 94     |
| 39) 1,2-Dichloropropane       | 4.312 | 63  | 84414  | 13.349 | ppbv   | 93     |
| 40) 1,4-Dioxane               | 4.584 | 88  | 38551  | 13.115 | ppbv # | 100    |
| 41) Tetrahydrofuran           | 3.056 | 42  | 86296  | 14.063 | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.493 | 83  | 242556 | 15.259 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 4.885 | 69  | 98279  | 15.639 | ppbv   | 100    |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 401920 | 14.734 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.419 | 75  | 136762 | 16.529 | ppbv   | 92     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042465.D  
 Acq On : 01 May 2025 12:49  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025  
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:45:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

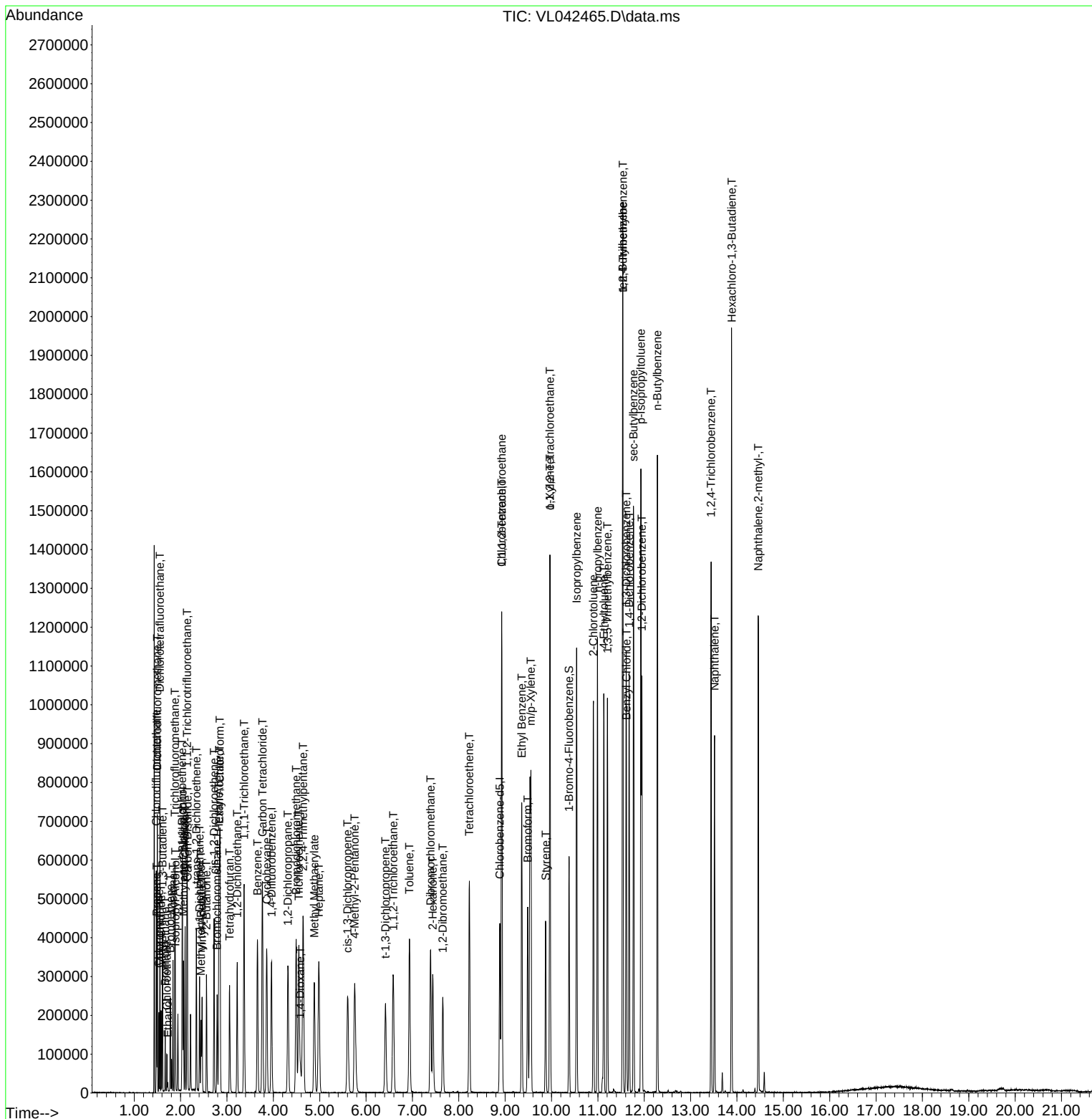
Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 154705m  | 15.749 | ppbv  |          |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 99496    | 14.356 | ppbv  | 93       |
| 48) Dibromochloromethane      | 7.393  | 129  | 180970   | 15.468 | ppbv  | 98       |
| 49) Bromoform                 | 9.487  | 173  | 152440   | 15.535 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.755  | 43   | 237985   | 14.550 | ppbv  | 97       |
| 51) 2-Hexanone                | 7.438  | 43   | 197423   | 15.071 | ppbv  | 99       |
| 52) Tetrachloroethene         | 8.228  | 164  | 85271    | 13.272 | ppbv  | 90       |
| 53) Toluene                   | 6.937  | 91   | 281731   | 15.768 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 154739   | 14.523 | ppbv  | 94       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 133410   | 14.326 | ppbv  | 98       |
| 57) Chlorobenzene             | 8.927  | 112  | 218370   | 13.783 | ppbv  | 99       |
| 58) Ethyl Benzene             | 9.358  | 91   | 414805   | 15.743 | ppbv  | 98       |
| 59) m/p-Xylene                | 9.555  | 91   | 699743m  | 31.674 | ppbv  |          |
| 60) o-Xylene                  | 9.966  | 91   | 350328   | 15.863 | ppbv  | 100      |
| 61) Styrene                   | 9.876  | 104  | 137720   | 16.686 | ppbv  | 96       |
| 62) Isopropylbenzene          | 10.542 | 105  | 498619   | 15.629 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 209726   | 14.635 | ppbv  | 99       |
| 64) n-propylbenzene           | 10.992 | 120  | 122452   | 15.759 | ppbv  | 97       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 443042   | 15.562 | ppbv  | 97       |
| 66) Benzyl Chloride           | 11.617 | 91   | 60376    | 18.348 | ppbv  | 97       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 632600   | 15.636 | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 11.928 | 119  | 539860   | 15.837 | ppbv  | 99       |
| 70) n-Butylbenzene            | 12.284 | 91   | 566780   | 16.084 | ppbv  | 99       |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 394227   | 15.755 | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 423746   | 16.250 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 362951   | 15.826 | ppbv  | 96       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 407416   | 14.683 | ppbv  | 96       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 225215   | 14.579 | ppbv  | 98       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 224505   | 15.357 | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 216147   | 14.295 | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 198112   | 13.121 | ppbv  | 99       |
| 79) Naphthalene               | 13.517 | 128  | 392900   | 16.888 | ppbv  | 98       |
| 80) Naphthalene,2-methyl-     | 14.459 | 142  | 316493   | 18.232 | ppbv  | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 195942   | 15.728 | ppbv  | 97       |

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

## Manual Integrations APPROVED

Quant Time: May 02 01:45:25 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Fri May 02 01:37:48 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042466.D  
 Acq On : 01 May 2025 14:10  
 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 05/02/2025  
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:46:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.791  | 49    | 66546    | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.962  | 114   | 186737   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.885  | 117   | 161050   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.380 | 95    | 148088   | 9.918    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.580  | 62    | 151      | 0.033    | ppbv # | 87       |
| 32) 1,1,1-Trichloroethane     | 3.370  | 97    | 595m     | 0.035    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.771  | 117   | 653m     | 0.040    | ppbv   |          |
| 38) Trichloroethene           | 4.551  | 130   | 135      | 0.020    | ppbv # | 40       |
| 52) Tetrachloroethene         | 8.231  | 164   | 285m     | 0.042    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.973  | 83    | 551m     | 0.038    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

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

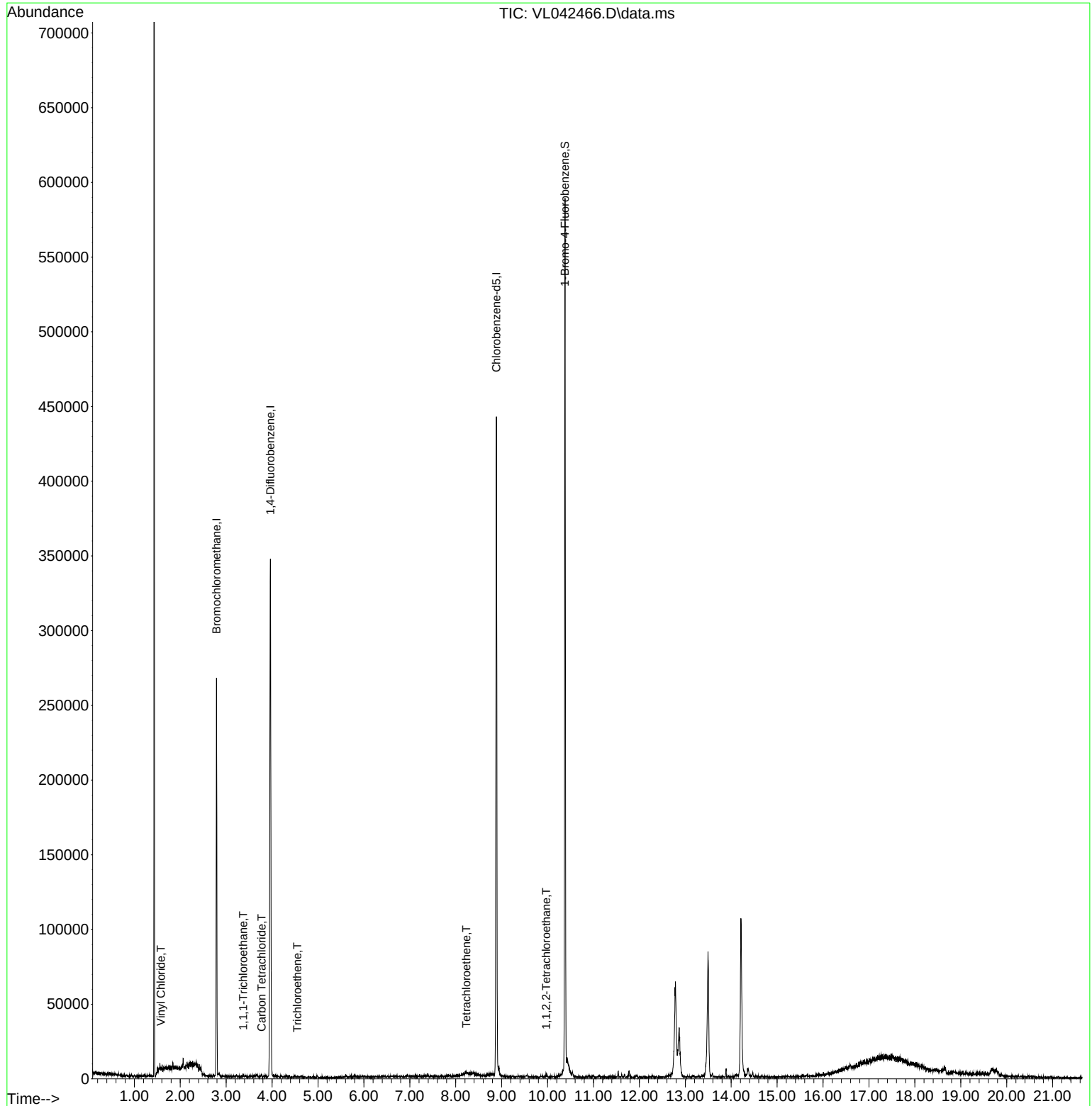
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
Data File : VL042466.D  
Acq On : 01 May 2025 14:10  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025  
Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:46:15 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Fri May 02 01:37:48 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050625\  
 Data File : VL042487.D  
 Acq On : 06 May 2025 09:00  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2025  
 Supervised By :Mahesh Dadoda 05/09/2025

Quant Time: May 07 01:35:37 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.791 | 49   | 69320    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 188157   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 161366   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.381 95 165339 11.051 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 110.500%

Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 131525 | 11.466 | ppbv   | 96     |
| 3) Chlorodifluoromethane      | 1.477 | 51  | 119859 | 9.883  | ppbv   | 98     |
| 4) Chloromethane              | 1.535 | 50  | 51848  | 10.814 | ppbv   | 91     |
| 5) Vinyl Chloride             | 1.580 | 62  | 47536  | 9.847  | ppbv   | 95     |
| 6) Bromomethane               | 1.667 | 94  | 25689  | 11.263 | ppbv   | 99     |
| 7) Chloroethane               | 1.706 | 64  | 18985  | 10.651 | ppbv   | 97     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 105839 | 11.192 | ppbv   | 97     |
| 9) Propene                    | 1.486 | 41  | 34471  | 8.689  | ppbv   | 96     |
| 10) Heptane                   | 4.982 | 43  | 103210 | 10.030 | ppbv   | 96     |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 123855 | 11.700 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 93934  | 11.114 | ppbv   | 98     |
| 13) Ethanol                   | 1.722 | 45  | 6351   | 7.889  | ppbv   | 98     |
| 14) Bromoethene               | 1.784 | 108 | 36335  | 11.645 | ppbv   | 92     |
| 15) Acetone                   | 1.836 | 43  | 111680 | 8.825  | ppbv   | 99     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 55608  | 9.963  | ppbv   | 95     |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 118491 | 10.628 | ppbv   | 97     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 41887  | 10.614 | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 1.888 | 45  | 69030  | 9.856  | ppbv   | 100    |
| 20) Methylene Chloride        | 2.062 | 84  | 37393  | 9.829  | ppbv   | 97     |
| 21) Allyl Chloride            | 2.098 | 41  | 84167  | 10.342 | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene  | 2.341 | 96  | 47256  | 10.253 | ppbv   | 95     |
| 23) Vinyl Acetate             | 2.464 | 43  | 118463 | 9.809  | ppbv   | 97     |
| 24) 1,1-Dichloroethane        | 2.409 | 63  | 100156 | 10.651 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.839 | 43  | 201213 | 9.931  | ppbv   | 99     |
| 26) Hexane                    | 2.826 | 57  | 88211  | 9.993  | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.150 | 76  | 120690 | 11.716 | ppbv   | 93     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 51653  | 9.740  | ppbv   | 98     |
| 29) Chloroform                | 2.852 | 83  | 172606 | 10.435 | ppbv   | 93     |
| 30) Cyclohexane               | 3.859 | 84  | 74929  | 10.153 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.723 | 61  | 97864  | 9.503  | ppbv   | 93     |
| 32) 1,1,1-Trichloroethane     | 3.370 | 97  | 182668 | 10.179 | ppbv   | 99     |
| 34) 2-Butanone                | 2.561 | 43  | 131262 | 9.645  | ppbv   | 97     |
| 35) Carbon Tetrachloride      | 3.765 | 117 | 190178 | 11.127 | ppbv   | 100    |
| 36) Benzene                   | 3.661 | 78  | 181690 | 10.233 | ppbv   | 99     |
| 37) 1,2-Dichloroethane        | 3.221 | 62  | 146010 | 10.669 | ppbv   | 98     |
| 38) Trichloroethene           | 4.555 | 130 | 71976  | 10.630 | ppbv   | 90     |
| 39) 1,2-Dichloropropane       | 4.322 | 63  | 63612  | 9.570  | ppbv # | 87     |
| 40) 1,4-Dioxane               | 4.590 | 88  | 29247  | 9.396  | ppbv # | 100    |
| 41) Tetrahydrofuran           | 3.059 | 42  | 64241  | 9.932  | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.496 | 83  | 185825 | 11.113 | ppbv   | 91     |
| 43) Methyl Methacrylate       | 4.891 | 69  | 72618  | 10.960 | ppbv   | 96     |
| 44) 2,2,4-Trimethylpentane    | 4.645 | 57  | 311522 | 10.824 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.422 | 75  | 93178  | 10.719 | ppbv   | 99     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050625\  
 Data File : VL042487.D  
 Acq On : 06 May 2025 09:00  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2025  
 Supervised By :Mahesh Dadoda 05/09/2025

Quant Time: May 07 01:35:37 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 108203   | 10.473 | ppbv  | 95       |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 75237    | 10.320 | ppbv  | 93       |
| 48) Dibromochloromethane      | 7.393  | 129  | 134135   | 10.899 | ppbv  | 99       |
| 49) Bromoform                 | 9.490  | 173  | 119371   | 11.565 | ppbv  | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.759  | 43   | 177017   | 10.283 | ppbv  | 96       |
| 51) 2-Hexanone                | 7.442  | 43   | 141871   | 10.308 | ppbv  | 99       |
| 52) Tetrachloroethene         | 8.228  | 164  | 63220    | 9.354  | ppbv  | 86       |
| 53) Toluene                   | 6.940  | 91   | 205094   | 10.913 | ppbv  | 99       |
| 54) 1,2-Dibromoethane         | 7.659  | 107  | 117565   | 10.548 | ppbv  | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.934  | 131  | 104985   | 11.016 | ppbv  | 98       |
| 57) Chlorobenzene             | 8.927  | 112  | 169084   | 10.428 | ppbv  | 92       |
| 58) Ethyl Benzene             | 9.361  | 91   | 308243   | 11.431 | ppbv  | 100      |
| 59) m/p-Xylene                | 9.555  | 91   | 540767m  | 23.920 | ppbv  |          |
| 60) o-Xylene                  | 9.969  | 91   | 271925   | 12.013 | ppbv  | 99       |
| 61) Styrene                   | 9.876  | 104  | 99907    | 11.828 | ppbv  | 97       |
| 62) Isopropylbenzene          | 10.546 | 105  | 384743   | 11.784 | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.969  | 83   | 167724   | 10.748 | ppbv  | 99       |
| 64) n-propylbenzene           | 10.992 | 120  | 91898    | 11.517 | ppbv  | 95       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 349935   | 12.010 | ppbv  | 98       |
| 66) Benzyl Chloride           | 11.620 | 91   | 43100    | 12.798 | ppbv  | 99       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 496533   | 11.992 | ppbv  | 99       |
| 69) p-Isopropyltoluene        | 11.931 | 119  | 416243   | 11.931 | ppbv  | 99       |
| 70) n-Butylbenzene            | 12.287 | 91   | 437958   | 12.144 | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 303775   | 11.862 | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 331569   | 12.424 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 287473   | 12.248 | ppbv  | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 324889   | 11.441 | ppbv  | 94       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 175086   | 11.074 | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 178127   | 11.906 | ppbv  | 98       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 170747   | 11.034 | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 152349   | 9.859  | ppbv  | 99       |
| 79) Naphthalene               | 13.517 | 128  | 292585   | 12.239 | ppbv  | 97       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 225180   | 12.673 | ppbv  | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.446 | 180  | 142121   | 11.147 | ppbv  | 98       |

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

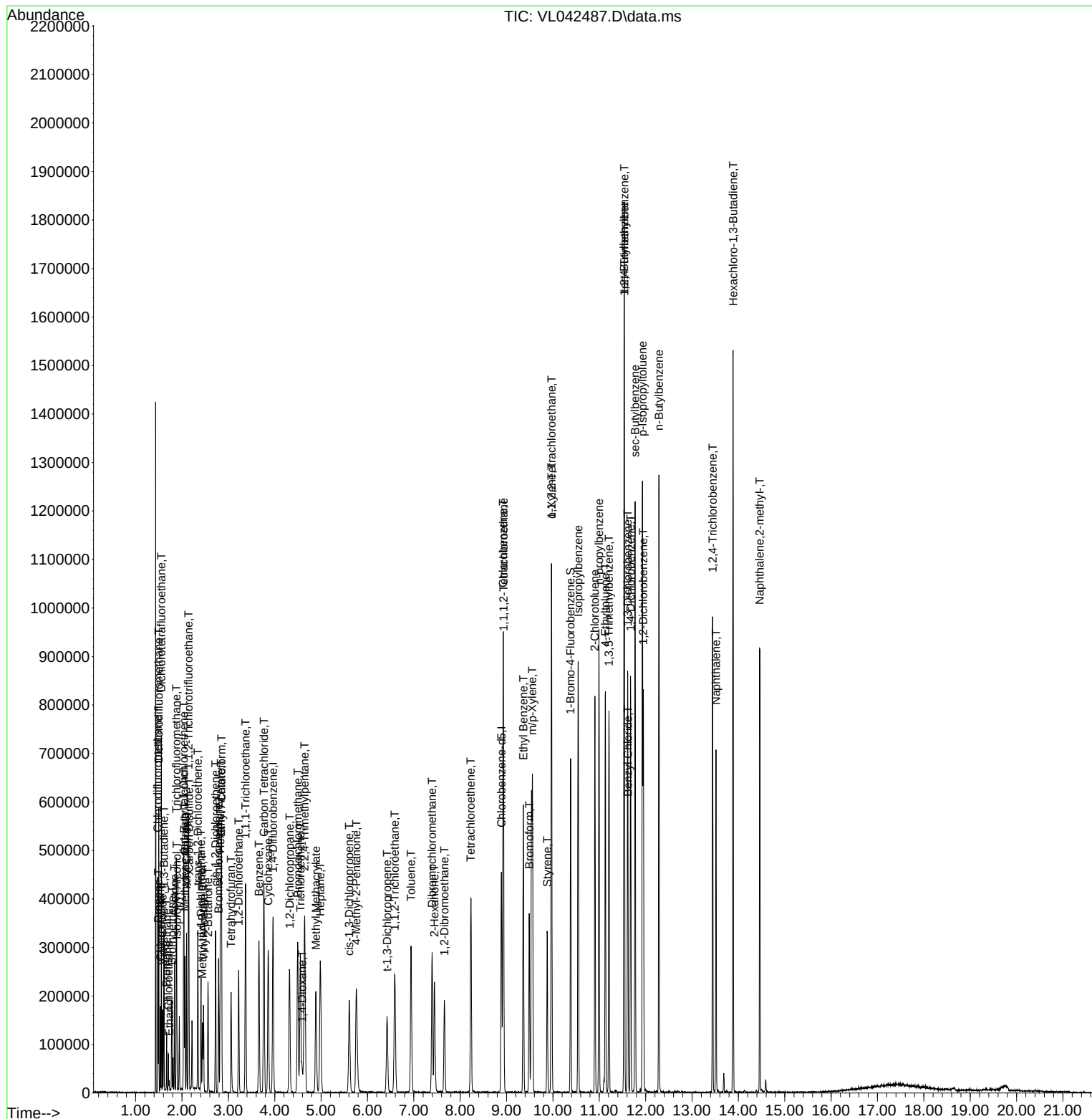
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050625\  
 Data File : VL042487.D  
 Acq On : 06 May 2025 09:00  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/07/2025  
 Supervised By : Mahesh Dadoda 05/09/2025

Quant Time: May 07 01:35:37 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
 QLast Update : Fri May 02 03:16:31 2025  
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050625\  
 Data File : VL042489.D  
 Acq On : 06 May 2025 10:44  
 Operator : SY/MD  
 Sample : VL0506ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0506ABS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2025  
 Supervised By :Mahesh Dadoda 05/09/2025

Quant Time: May 07 01:36:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 68512    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 189766   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 162176   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 162347 10.797 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 108.000%

Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 128425 | 11.327 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 120834 | 10.080 | ppbv   | 98     |
| 4) Chloromethane              | 1.531 | 50  | 51363  | 10.839 | ppbv   | 94     |
| 5) Vinyl Chloride             | 1.580 | 62  | 50552  | 10.596 | ppbv   | 95     |
| 6) Bromomethane               | 1.667 | 94  | 24844  | 11.021 | ppbv # | 81     |
| 7) Chloroethane               | 1.706 | 64  | 19253  | 10.929 | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 108256 | 11.583 | ppbv   | 99     |
| 9) Propene                    | 1.483 | 41  | 36687  | 9.357  | ppbv   | 100    |
| 10) Heptane                   | 4.985 | 43  | 108748 | 10.693 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 118964 | 11.371 | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 92491  | 11.072 | ppbv   | 97     |
| 13) Ethanol                   | 1.722 | 45  | 5717   | 7.185  | ppbv   | 96     |
| 14) Bromoethene               | 1.781 | 108 | 35036  | 11.361 | ppbv   | 99     |
| 15) Acetone                   | 1.836 | 43  | 110911 | 8.868  | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 57769  | 10.473 | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 121629 | 11.038 | ppbv   | 98     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 41573  | 10.658 | ppbv   | 91     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 70143  | 10.133 | ppbv   | 100    |
| 20) Methylene Chloride        | 2.062 | 84  | 38025  | 10.113 | ppbv   | 97     |
| 21) Allyl Chloride            | 2.095 | 41  | 87030  | 10.820 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.341 | 96  | 46194  | 10.140 | ppbv   | 92     |
| 23) Vinyl Acetate             | 2.463 | 43  | 122507 | 10.263 | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 99878  | 10.747 | ppbv   | 98     |
| 25) Ethyl Acetate             | 2.839 | 43  | 207809 | 10.377 | ppbv   | 99     |
| 26) Hexane                    | 2.826 | 57  | 94005  | 10.775 | ppbv   | 95     |
| 27) Carbon Disulfide          | 2.150 | 76  | 118732 | 11.662 | ppbv # | 89     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 52295  | 9.977  | ppbv   | 97     |
| 29) Chloroform                | 2.849 | 83  | 178140 | 10.896 | ppbv   | 98     |
| 30) Cyclohexane               | 3.858 | 84  | 78419  | 10.751 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 102999 | 10.119 | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 3.370 | 97  | 185042 | 10.433 | ppbv   | 99     |
| 34) 2-Butanone                | 2.561 | 43  | 135534 | 9.874  | ppbv   | 95     |
| 35) Carbon Tetrachloride      | 3.765 | 117 | 192452 | 11.164 | ppbv   | 96     |
| 36) Benzene                   | 3.658 | 78  | 188082 | 10.503 | ppbv   | 96     |
| 37) 1,2-Dichloroethane        | 3.221 | 62  | 150741 | 10.922 | ppbv   | 99     |
| 38) Trichloroethene           | 4.554 | 130 | 75153  | 11.005 | ppbv   | 97     |
| 39) 1,2-Dichloropropane       | 4.315 | 63  | 67616  | 10.086 | ppbv   | 92     |
| 40) 1,4-Dioxane               | 4.583 | 88  | 30720  | 9.786  | ppbv # | 100    |
| 41) Tetrahydrofuran           | 3.056 | 42  | 66397  | 10.179 | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.496 | 83  | 188247 | 11.163 | ppbv   | 96     |
| 43) Methyl Methacrylate       | 4.888 | 69  | 73710  | 11.030 | ppbv   | 95     |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 317017 | 10.921 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.419 | 75  | 95245  | 10.864 | ppbv   | 100    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050625\  
 Data File : VL042489.D  
 Acq On : 06 May 2025 10:44  
 Operator : SY/MD  
 Sample : VL0506ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0506ABS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2025  
 Supervised By :Mahesh Dadoda 05/09/2025

Quant Time: May 07 01:36:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.603  | 75   | 112024   | 10.751 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 6.590  | 97   | 80000    | 10.880 | ppbv   | 99       |
| 48) Dibromochloromethane      | 7.390  | 129  | 137019   | 11.039 | ppbv   | 99       |
| 49) Bromoform                 | 9.487  | 173  | 115649   | 11.110 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.755  | 43   | 179961   | 10.365 | ppbv   | 97       |
| 51) 2-Hexanone                | 7.441  | 43   | 143801   | 10.359 | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.228  | 164  | 61852    | 9.074  | ppbv   | 94       |
| 53) Toluene                   | 6.940  | 91   | 211514   | 11.159 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.655  | 107  | 119785   | 10.656 | ppbv   | 90       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 107810   | 11.256 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.927  | 112  | 170186   | 10.444 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.361  | 91   | 316187   | 11.667 | ppbv   | 100      |
| 59) m/p-Xylene                | 9.555  | 91   | 546871m  | 24.069 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 275574   | 12.114 | ppbv   | 98       |
| 61) Styrene                   | 9.875  | 104  | 100944   | 11.891 | ppbv   | 95       |
| 62) Isopropylbenzene          | 10.542 | 105  | 386743   | 11.786 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 168155   | 10.722 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.992 | 120  | 95485    | 11.906 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 347665   | 11.872 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.617 | 91   | 44409    | 13.121 | ppbv   | 96       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 500648   | 12.031 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.931 | 119  | 418184   | 11.927 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.283 | 91   | 439757   | 12.133 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 304635   | 11.836 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 332254   | 12.388 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 285001   | 12.082 | ppbv   | 94       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 326996   | 11.457 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 176191   | 11.089 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 173576   | 11.543 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 171125   | 11.003 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 153031   | 9.854  | ppbv   | 99       |
| 79) Naphthalene               | 13.517 | 128  | 289175   | 12.036 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 236741   | 13.257 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 142190   | 11.096 | ppbv   | 98       |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050625\  
 Data File : VL042489.D  
 Acq On : 06 May 2025 10:44  
 Operator : SY/MD  
 Sample : VL0506ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0506ABS01

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/07/2025  
 Supervised By : Mahesh Dadoda 05/09/2025

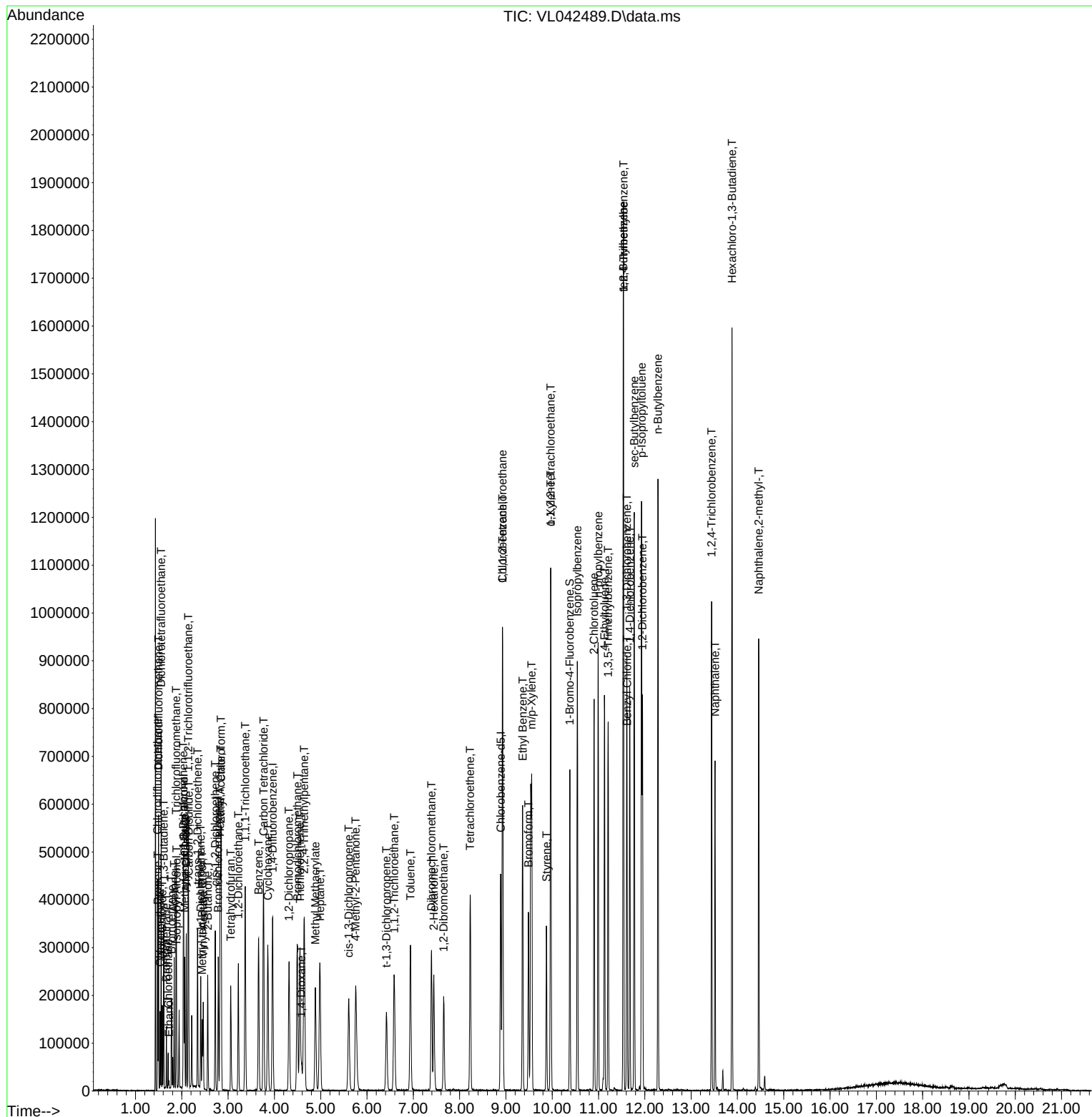
Quant Time: May 07 01:36:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050625\  
 Data File : VL042490.D  
 Acq On : 06 May 2025 11:15  
 Operator : SY/MD  
 Sample : QC043025 CAN 10605  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 QC043025 CAN 10605

Quant Time: May 07 01:37:40 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri May 02 03:16:31 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 71310    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 187765   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 155591   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 140282   | 9.725    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.200% |

| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050625\  
Data File : VL042490.D  
Acq On : 06 May 2025 11:15  
Operator : SY/MD  
Sample : QC043025 CAN 10605  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC043025 CAN 10605

Quant Time: May 07 01:37:40 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Fri May 02 03:16:31 2025  
Response via : Initial Calibration

