

## Process Report

**Order ID :** Q3627

| Date       | Bottle ID | Lab Sample Number | InComing Vacuum | Canister ID | Can Size | Reg ID | Reg Size | Batch Code | Certification ID                                                                                                     |
|------------|-----------|-------------------|-----------------|-------------|----------|--------|----------|------------|----------------------------------------------------------------------------------------------------------------------|
| 11/14/2025 | B2510051  | Q3627-05          | -10.4           | 10793       | 1.4 L    | 10213  |          | C2504011   | <b>VL042492.D</b><br>Seq :vl050625<br>TUNE : VL042486.D<br>ICAL : VL042466.D<br>CCAL : VL042487.D<br>MB : VL042488.D |
| 11/14/2025 | B2510051  | Q3627-04          | -11.2           | 10650       | 1.4 L    | 10712  |          | C2504011   | <b>VL042492.D</b><br>Seq :vl050625<br>TUNE : VL042486.D<br>ICAL : VL042466.D<br>CCAL : VL042487.D<br>MB : VL042488.D |
| 11/14/2025 | B2510052  | Q3627-01          | -8.0            | 10608       | 6 L      | 10249  |          | C2509003   | <b>VL043048.D</b><br>Seq :VL100625<br>TUNE : VL043043.D<br>ICAL : VL043037.D<br>CCAL : VL043044.D<br>MB : VL043045.D |
| 11/14/2025 | B2510052  | Q3627-03          | -2.7            | 10590       | 6 L      | 10240  |          | C2509003   | <b>VL043048.D</b><br>Seq :VL100625<br>TUNE : VL043043.D<br>ICAL : VL043037.D<br>CCAL : VL043044.D<br>MB : VL043045.D |
| 11/14/2025 | B2510052  | Q3627-02          | -6.7            | 10321       | 6 L      | 10771  |          | C2509003   | <b>VL043048.D</b><br>Seq :VL100625<br>TUNE : VL043043.D<br>ICAL : VL043037.D<br>CCAL : VL043044.D<br>MB : VL043045.D |



## Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Canister Batch :** C2504011

**Type of Canister :** 1.4 L

**Cleaning Date :** 04/22/2025

**Analyst :** SAM

**Oven Temperature :** 125.0 c

| Canister | Vaccum<br>After<br>Cleaning<br>("Hg) | Vaccum<br>After<br>Cleaning<br>Date | Analysis<br>Date | VAC<br>24Hr<br>("Hg) | Vaccum<br>After<br>24hr<br>Date | New<br>Sample<br>Number | QC<br>Canister | File       |
|----------|--------------------------------------|-------------------------------------|------------------|----------------------|---------------------------------|-------------------------|----------------|------------|
| 10682    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      | Q3626-01                | 10669          | VL042225.D |
| 10793    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      | Q3627-05                | 10669          | VL042225.D |
| 10795    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      | Q3655-02                | 10669          | VL042225.D |
| 10794    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      | Q3626-12                | 10669          | VL042225.D |
| 10763    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      |                         | 10669          | VL042225.D |
| 10677    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      | Q3626-04                | 10669          | VL042225.D |
| 10669    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      | Q3655-01                | 10669          | VL042225.D |
| 10673    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      | Q3626-09                | 10669          | VL042225.D |
| 10046    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      | Q3626-08                | 10669          | VL042225.D |
| 10450    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      | Q3626-03                | 10669          | VL042225.D |
| 10416    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      | Q3626-10                | 10669          | VL042225.D |
| 10118    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      |                         | 10669          | VL042225.D |
| 10679    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      | Q3655-06                | 10669          | VL042225.D |
| 10471    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      | Q3626-07                | 10669          | VL042225.D |
| 10123    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      |                         | 10669          | VL042225.D |
| 10454    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      |                         | 10669          | VL042225.D |
| 10455    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      |                         | 10669          | VL042225.D |
| 10413    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      | Q3626-02                | 10669          | VL042225.D |
| 10652    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      |                         | 10669          | VL042225.D |
| 10452    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      |                         | 10669          | VL042225.D |
| 10650    | -30                                  | 04/23/2025                          | 05/06/2025       | -30                  | 04/24/2025                      | Q3627-04                | 10669          | VL042225.D |



## Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Canister Batch :** C2509003

**Type of Canister :** 6 L

**Cleaning Date :** 09/24/2025

**Analyst :** sam

**Oven Temperature :** 125.0 c

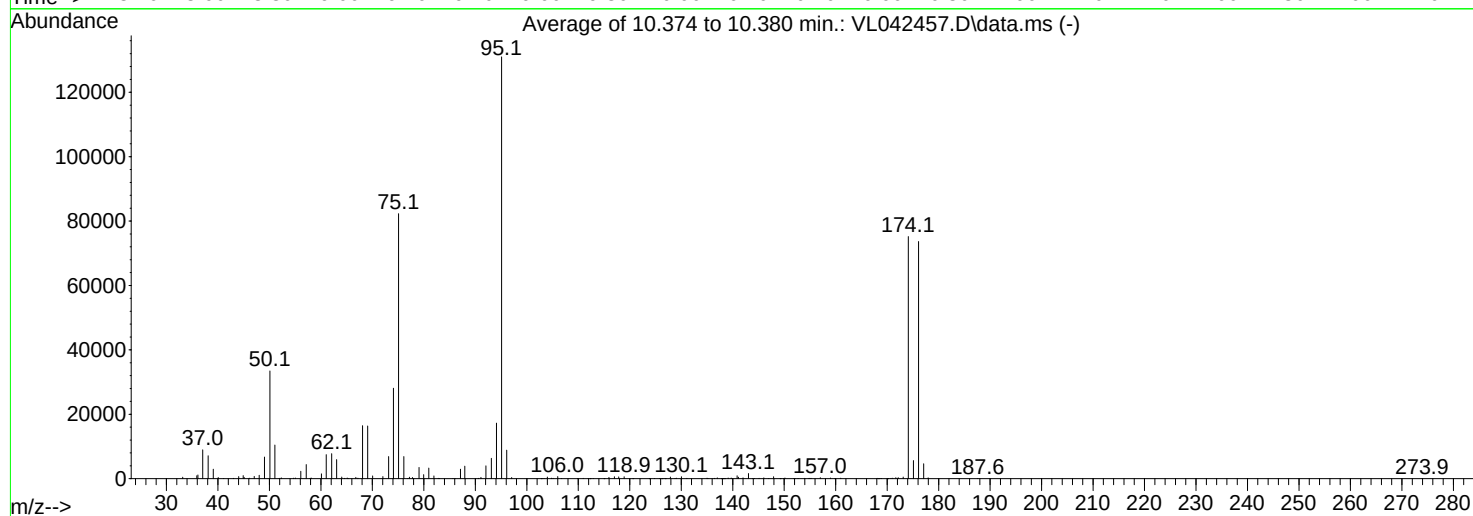
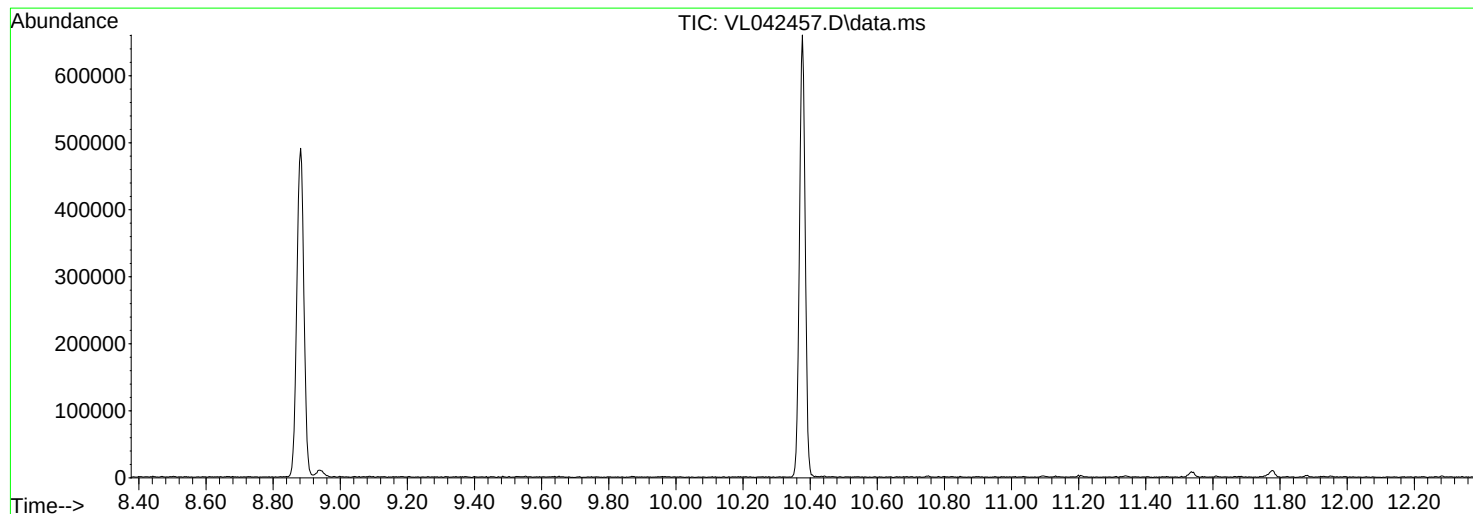
| Canister | Vaccum<br>After<br>Cleaning<br>("Hg) | Vaccum<br>After<br>Cleaning<br>Date | Analysis<br>Date | VAC<br>24Hr<br>("Hg) | Vaccum<br>After<br>24hr<br>Date | New<br>Sample<br>Number | QC<br>Canister | File       |
|----------|--------------------------------------|-------------------------------------|------------------|----------------------|---------------------------------|-------------------------|----------------|------------|
| 10321    | -30                                  | 09/25/2025                          | 10/07/2025       | -30                  | 09/26/2025                      | Q3627-02                | 10590          | VL043048.D |
| 10280    | -30                                  | 09/25/2025                          | 10/07/2025       | -29                  | 09/26/2025                      | Q3651-06                | 10590          | VL043048.D |
| 10315    | -30                                  | 09/25/2025                          | 10/07/2025       | -30                  | 09/26/2025                      | Q3651-05                | 10590          | VL043048.D |
| 10590    | -30                                  | 09/25/2025                          | 10/07/2025       | -30                  | 09/26/2025                      | Q3627-03                | 10590          | VL043048.D |
| 10608    | -30                                  | 09/25/2025                          | 10/07/2025       | -30                  | 09/26/2025                      | Q3627-01                | 10590          | VL043048.D |
| 10320    | -30                                  | 09/25/2025                          | 10/07/2025       | -30                  | 09/26/2025                      | Q3651-04                | 10590          | VL043048.D |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
Data File : VL042457.D  
Acq On : 01 May 2025 08:19  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Fri May 02 03:16:31 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 8               | 40              | 25.5         | 33424      | PASS                |
| 75             | 95              | 30              | 66              | 62.8         | 82325      | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 131013     | PASS                |
| 96             | 95              | 5               | 9               | 6.8          | 8845       | PASS                |
| 173            | 174             | 0.00            | 2               | 0.6          | 483        | PASS                |
| 174            | 95              | 50              | 120             | 57.4         | 75195      | PASS                |
| 175            | 174             | 4               | 9               | 7.5          | 5628       | PASS                |
| 176            | 174             | 93              | 101             | 97.9         | 73643      | PASS                |
| 177            | 176             | 5               | 9               | 6.3          | 4652       | PASS                |

Average of 10.374 to 10.380 min.: VL042457.D\data.ms

BFB

Modified:subtracted

| m/z   | abund. | m/z   | abund. | m/z   | abund. | m/z   | abund. |
|-------|--------|-------|--------|-------|--------|-------|--------|
| 33.15 | 469    | 45.10 | 382    | 56.10 | 2274   | 65.30 | 41     |
| 35.90 | 906    | 46.10 | 162    | 57.15 | 4377   | 66.80 | 39     |
| 36.10 | 1139   | 47.05 | 684    | 57.90 | 105    | 67.20 | 15     |
| 37.05 | 8974   | 48.00 | 1049   | 58.10 | 226    | 68.10 | 1643   |
| 38.10 | 7135   | 49.05 | 6723   | 60.10 | 1472   | 69.10 | 16370  |
| 39.10 | 2930   | 50.10 | 33424  | 61.05 | 7465   | 70.05 | 850    |
| 40.05 | 356    | 51.05 | 10431  | 62.10 | 7736   | 72.05 | 662    |
| 41.10 | 49     | 51.90 | 98     | 63.05 | 5912   | 73.15 | 6882   |
| 43.00 | 119    | 52.30 | 235    | 64.05 | 486    | 74.10 | 28059  |
| 44.05 | 665    | 54.70 | 154    | 64.60 | 81     | 75.10 | 82325  |
| 44.90 | 947    | 55.05 | 208    | 65.10 | 198    | 76.10 | 6860   |

Average of 10.374 to 10.380 min.: VL042457.D\data.ms

BFB

Modified:subtracted

| m/z   | abund. | m/z   | abund. | m/z    | abund. | m/z    | abund. |
|-------|--------|-------|--------|--------|--------|--------|--------|
| 76.90 | 79     | 86.05 | 50     | 102.80 | 30     | 112.90 | 74     |
| 77.20 | 452    | 87.10 | 2929   | 103.35 | 68     | 115.00 | 24     |
| 77.80 | 368    | 87.95 | 3899   | 104.00 | 497    | 115.95 | 388    |
| 78.00 | 74     | 90.60 | 89     | 104.80 | 164    | 117.00 | 594    |
| 79.05 | 3488   | 91.10 | 390    | 105.10 | 83     | 117.85 | 568    |
| 79.95 | 1236   | 92.05 | 3969   | 106.00 | 631    | 118.90 | 604    |
| 80.95 | 3276   | 93.10 | 6328   | 106.75 | 75     | 120.60 | 21     |
| 81.95 | 827    | 94.10 | 17254  | 109.85 | 53     | 123.80 | 23     |
| 82.80 | 108    | 95.10 | 131013 | 110.95 | 113    | 124.80 | 51     |
| 83.00 | 33     | 96.10 | 8845   | 111.95 | 44     | 125.80 | 51     |
| 85.65 | 58     | 97.05 | 335    | 112.30 | 23     | 126.20 | 20     |

Average of 10.374 to 10.380 min.: VL042457.D\data.ms

BFB

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 126.65 | 61     | 137.80 | 20     | 145.10 | 100    | 154.80 | 84     |
| 126.90 | 24     | 138.10 | 17     | 146.05 | 238    | 155.00 | 99     |
| 127.90 | 511    | 138.40 | 18     | 147.00 | 57     | 155.20 | 96     |
| 128.80 | 56     | 139.10 | 192    | 147.95 | 621    | 157.00 | 310    |
| 129.05 | 167    | 139.70 | 187    | 149.20 | 29     | 159.00 | 194    |
| 130.05 | 612    | 140.85 | 892    | 149.90 | 59     | 159.80 | 18     |
| 131.10 | 123    | 141.10 | 436    | 150.15 | 184    | 161.00 | 169    |
| 135.00 | 140    | 142.00 | 235    | 151.90 | 41     | 168.05 | 116    |
| 135.20 | 54     | 143.05 | 1602   | 152.10 | 77     | 168.30 | 27     |
| 136.45 | 84     | 143.90 | 37     | 152.70 | 62     | 168.60 | 59     |
| 137.00 | 261    | 144.20 | 62     | 154.00 | 102    | 168.90 | 50     |

Average of 10.374 to 10.380 min.: VL042457.D\data.ms

BFB

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z | abund. | m/z | abund. |
|--------|--------|--------|--------|-----|--------|-----|--------|
| 170.10 | 26     | 187.60 | 40     |     |        |     |        |
| 170.75 | 115    | 273.95 | 78     |     |        |     |        |
| 171.10 | 170    |        |        |     |        |     |        |
| 171.70 | 314    |        |        |     |        |     |        |
| 172.15 | 321    |        |        |     |        |     |        |
| 173.10 | 483    |        |        |     |        |     |        |
| 174.10 | 75195  |        |        |     |        |     |        |
| 175.10 | 5628   |        |        |     |        |     |        |
| 176.10 | 73643  |        |        |     |        |     |        |
| 177.10 | 4652   |        |        |     |        |     |        |
| 177.95 | 243    |        |        |     |        |     |        |

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\

Method File : VL050125AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

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

Response Via : Initial Calibration

## Calibration Files

0.03=VL042466.D 0.1 =VL042462.D 0.5 =VL042461.D 1 =VL042460.D 2 =VL042459.D 10 =VL042458.D 15 =VL042465.D

| Compound                  | 0.03           | 0.1   | 0.5   | 1     | 2     | 10    | 15    | Avg   | %RSD  |
|---------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----                     |                |       |       |       |       |       |       |       |       |
| 1) I Bromochloromethane   | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2) T Dichlorodifluo...    |                |       | 1.887 | 1.650 | 1.629 | 1.470 | 1.639 | 1.655 | 9.01  |
| 3) Chlorodifluoro...      |                |       | 1.886 | 1.871 | 1.820 | 1.569 | 1.602 | 1.750 | 8.71  |
| 4) Chloromethane          |                |       | 0.738 | 0.696 | 0.734 | 0.624 | 0.666 | 0.692 | 6.90  |
| 5) T Vinyl Chloride       | 0.756          | 0.964 | 0.708 | 0.625 | 0.623 | 0.567 | 0.631 | 0.696 | 19.18 |
| 6) T Bromomethane         |                |       | 0.349 | 0.359 | 0.327 | 0.286 | 0.324 | 0.329 | 8.64  |
| 7) Chloroethane           |                |       | 0.250 | 0.272 | 0.271 | 0.231 | 0.261 | 0.257 | 6.55  |
| 8) T Dichlorotetra...     |                |       | 1.445 | 1.371 | 1.402 | 1.235 | 1.368 | 1.364 | 5.77  |
| 9) T Propene              |                |       | 0.585 | 0.606 | 0.631 | 0.525 | 0.515 | 0.572 | 8.84  |
| 10) T Heptane             |                |       | 1.276 | 1.634 | 1.593 | 1.445 | 1.474 | 1.484 | 9.48  |
| 11) T Trichlorofluor...   |                |       | 1.660 | 1.489 | 1.528 | 1.376 | 1.582 | 1.527 | 6.96  |
| 12) T 1,1,2-Trichlor...   |                |       | 1.318 | 1.234 | 1.245 | 1.099 | 1.201 | 1.219 | 6.52  |
| 13) Ethanol               |                |       | 0.138 | 0.136 | 0.143 | 0.080 | 0.084 | 0.116 | 27.19 |
| 14) T Bromoethene         |                |       | 0.488 | 0.443 | 0.457 | 0.398 | 0.466 | 0.450 | 7.39  |
| 15) T Acetone             |                |       | 2.229 | 2.094 | 2.022 | 1.318 | 1.465 | 1.826 | 22.28 |
| 16) T 1,3-Butadiene       |                |       | 0.883 | 0.874 | 0.836 | 0.681 | 0.751 | 0.805 | 10.77 |
| 17) tert-Butyl alc...     |                |       | 1.816 | 1.615 | 1.620 | 1.489 | 1.502 | 1.608 | 8.15  |
| 18) T 1,1-Dichloroet...   |                |       | 0.650 | 0.587 | 0.567 | 0.495 | 0.547 | 0.569 | 9.98  |
| 19) T Isopropyl Alcohol   |                |       | 1.221 | 1.087 | 0.976 | 0.876 | 0.891 | 1.010 | 14.33 |
| 20) T Methylene Chlo...   |                |       | 0.753 | 0.547 | 0.518 | 0.449 | 0.477 | 0.549 | 21.88 |
| 21) T Allyl Chloride      |                |       | 1.283 | 1.181 | 1.164 | 1.076 | 1.166 | 1.174 | 6.25  |
| 22) T trans-1,2-Dich...   |                |       | 0.741 | 0.742 | 0.645 | 0.552 | 0.644 | 0.665 | 11.96 |
| 23) T Vinyl Acetate       |                |       | 1.898 | 1.521 | 1.810 | 1.726 | 1.756 | 1.742 | 8.03  |
| 24) T 1,1-Dichloroet...   |                |       | 1.432 | 1.465 | 1.368 | 1.196 | 1.322 | 1.357 | 7.79  |
| 25) T Ethyl Acetate       |                |       | 3.002 | 3.044 | 2.945 | 2.832 | 2.792 | 2.923 | 3.69  |
| 26) T Hexane              |                |       | 1.278 | 1.290 | 1.345 | 1.215 | 1.239 | 1.273 | 3.91  |
| 27) T Carbon Disulfide    |                |       | 1.509 | 1.446 | 1.499 | 1.418 | 1.558 | 1.486 | 3.69  |
| 28) T Methyl tert-Bu...   |                |       | 0.802 | 0.853 | 0.759 | 0.671 | 0.740 | 0.765 | 8.91  |
| 29) T Chloroform          |                |       | 2.551 | 2.482 | 2.399 | 2.198 | 2.301 | 2.386 | 5.89  |
| 30) T Cyclohexane         |                |       | 1.135 | 0.998 | 1.096 | 1.045 | 1.048 | 1.065 | 4.92  |
| 31) T cis-1,2-Dichlo...   |                |       | 1.551 | 1.604 | 1.545 | 1.342 | 1.386 | 1.486 | 7.71  |
| 32) T 1,1,1-Trichlor...   | 2.980          | 2.842 | 2.567 | 2.501 | 2.511 | 2.288 | 2.433 | 2.589 | 9.28  |
| -----                     |                |       |       |       |       |       |       |       |       |
| 33) I 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |       |
| 34) T 2-Butanone          |                |       | 0.802 | 0.732 | 0.774 | 0.659 | 0.650 | 0.723 | 9.32  |
| 35) T Carbon Tetrach...   | 1.166          | 0.799 | 0.856 | 0.935 | 0.875 | 0.827 | 0.902 | 0.908 | 13.44 |
| 36) T Benzene             |                |       | 0.924 | 0.974 | 1.036 | 0.892 | 0.892 | 0.944 | 6.53  |
| 37) T 1,2-Dichloroet...   |                |       | 0.738 | 0.755 | 0.769 | 0.666 | 0.709 | 0.727 | 5.66  |
| 38) T Trichloroethene     | 0.241          | 0.419 | 0.389 | 0.364 | 0.404 | 0.347 | 0.355 | 0.360 | 16.31 |
| 39) T 1,2-Dichloropr...   |                |       | 0.368 | 0.405 | 0.362 | 0.317 | 0.315 | 0.353 | 10.71 |

|                                                                                 |   |                   |       |       |       |       |       |       |       |       |       |
|---------------------------------------------------------------------------------|---|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\<br>Method File : VL050125AIR.M |   |                   |       |       |       |       |       |       |       |       |       |
| 40)                                                                             | T | 1,4-Dioxane       |       |       | 0.176 | 0.185 | 0.172 | 0.151 | 0.144 | 0.165 | 10.60 |
| 41)                                                                             | T | Tetrahydrofuran   |       |       | 0.329 | 0.354 | 0.387 | 0.326 | 0.322 | 0.344 | 7.98  |
| 42)                                                                             | T | Bromodichlorom... |       |       | 0.848 | 0.921 | 0.931 | 0.839 | 0.904 | 0.889 | 4.77  |
| 43)                                                                             |   | Methyl Methacr... |       |       | 0.328 | 0.341 | 0.362 | 0.363 | 0.366 | 0.352 | 4.72  |
| 44)                                                                             | T | 2,2,4-Trimethy... |       |       | 1.490 | 1.590 | 1.633 | 1.437 | 1.498 | 1.530 | 5.23  |
| 45)                                                                             | T | t-1,3-Dichloro... |       |       | 0.438 | 0.423 | 0.460 | 0.480 | 0.510 | 0.462 | 7.46  |
| 46)                                                                             | T | cis-1,3-Dichlo... |       |       | 0.526 | 0.539 | 0.549 | 0.555 | 0.577 | 0.549 | 3.47  |
| 47)                                                                             | T | 1,1,2-Trichlor... |       |       | 0.372 | 0.409 | 0.428 | 0.357 | 0.371 | 0.387 | 7.74  |
| 48)                                                                             | T | Dibromochlorom... |       |       | 0.651 | 0.643 | 0.673 | 0.630 | 0.674 | 0.654 | 2.96  |
| 49)                                                                             | T | Bromoform         |       |       | 0.540 | 0.535 | 0.573 | 0.527 | 0.568 | 0.549 | 3.73  |
| 50)                                                                             | T | 4-Methyl-2-Pen... |       |       | 0.852 | 0.980 | 0.985 | 0.870 | 0.887 | 0.915 | 6.92  |
| 51)                                                                             | T | 2-Hexanone        |       |       | 0.649 | 0.754 | 0.797 | 0.722 | 0.736 | 0.731 | 7.42  |
| 52)                                                                             | T | Tetrachloroethene | 0.509 | 0.380 | 0.325 | 0.339 | 0.338 | 0.305 | 0.318 | 0.359 | 19.49 |
| 53)                                                                             | T | Toluene           |       |       | 0.935 | 0.969 | 1.025 | 1.016 | 1.050 | 0.999 | 4.64  |
| 54)                                                                             | T | 1,2-Dibromoethane |       | 0.625 | 0.589 | 0.599 | 0.610 | 0.554 | 0.577 | 0.592 | 4.26  |
| -----ISTD-----                                                                  |   |                   |       |       |       |       |       |       |       |       |       |
| 55)                                                                             | I | Chlorobenzene-d5  |       |       |       |       |       |       |       |       |       |
| 56)                                                                             |   | 1,1,1,2-Tetrac... |       |       | 0.618 | 0.633 | 0.596 | 0.542 | 0.564 | 0.591 | 6.38  |
| 57)                                                                             | T | Chlorobenzene     |       |       | 1.101 | 1.060 | 1.036 | 0.904 | 0.923 | 1.005 | 8.64  |
| 58)                                                                             | T | Ethyl Benzene     |       |       | 1.492 | 1.634 | 1.752 | 1.725 | 1.754 | 1.671 | 6.68  |
| 59)                                                                             | T | m/p-Xylene        |       |       | 1.212 | 1.378 | 1.506 | 1.429 | 1.479 | 1.401 | 8.31  |
| 60)                                                                             | T | o-Xylene          |       |       | 1.197 | 1.393 | 1.519 | 1.423 | 1.481 | 1.403 | 8.90  |
| 61)                                                                             | T | Styrene           |       |       | 0.415 | 0.500 | 0.538 | 0.583 | 0.582 | 0.523 | 13.35 |
| 62)                                                                             |   | Isopropylbenzene  |       |       | 1.781 | 2.030 | 2.165 | 2.033 | 2.108 | 2.023 | 7.26  |
| 63)                                                                             | T | 1,1,2,2-Tetrac... | 1.140 | 0.945 | 0.976 | 0.985 | 0.990 | 0.846 | 0.887 | 0.967 | 9.69  |
| 64)                                                                             |   | n-propylbenzene   |       |       | 0.400 | 0.524 | 0.549 | 0.482 | 0.518 | 0.495 | 11.75 |
| 65)                                                                             |   | tert-Butylbenzene |       |       | 1.519 | 1.791 | 2.028 | 1.817 | 1.873 | 1.806 | 10.23 |
| 66)                                                                             | T | Benzyl Chloride   |       |       | 0.158 | 0.204 | 0.195 | 0.232 | 0.255 | 0.209 | 17.73 |
| 67)                                                                             |   | sec-Butylbenzene  |       |       | 2.149 | 2.560 | 2.905 | 2.541 | 2.675 | 2.566 | 10.69 |
| 68)                                                                             | S | 1-Bromo-4-Fluo... | 0.920 | 0.911 | 0.902 | 0.928 | 0.915 | 0.951 | 0.963 | 0.927 | 2.39  |
| 69)                                                                             |   | p-Isopropyltol... |       |       | 1.805 | 2.166 | 2.406 | 2.150 | 2.283 | 2.162 | 10.39 |
| 70)                                                                             |   | n-Butylbenzene    |       |       | 1.802 | 2.218 | 2.560 | 2.198 | 2.396 | 2.235 | 12.66 |
| 71)                                                                             |   | 2-Chlorotoluene   |       |       | 1.405 | 1.569 | 1.697 | 1.597 | 1.667 | 1.587 | 7.20  |
| 72)                                                                             | T | 4-Ethyltoluene    |       |       | 1.281 | 1.647 | 1.828 | 1.722 | 1.792 | 1.654 | 13.28 |
| 73)                                                                             | T | 1,3,5-Trimethy... |       |       | 1.177 | 1.467 | 1.618 | 1.475 | 1.535 | 1.455 | 11.44 |
| 74)                                                                             | T | 1,2,4-Trimethy... |       |       | 1.568 | 1.788 | 2.075 | 1.646 | 1.723 | 1.760 | 11.07 |
| 75)                                                                             | T | 1,3-Dichlorobe... |       |       | 0.975 | 1.022 | 1.056 | 0.893 | 0.952 | 0.980 | 6.42  |
| 76)                                                                             | T | 1,4-Dichlorobe... |       |       | 0.869 | 0.945 | 0.966 | 0.907 | 0.949 | 0.927 | 4.22  |
| 77)                                                                             | T | 1,2-Dichlorobe... |       |       | 0.977 | 1.007 | 1.033 | 0.864 | 0.914 | 0.959 | 7.23  |
| 78)                                                                             | T | Hexachloro-1,3... |       |       | 1.028 | 1.081 | 1.070 | 0.772 | 0.838 | 0.958 | 14.93 |
| 79)                                                                             | T | Naphthalene       |       | 0.720 | 1.168 | 1.657 | 2.155 | 1.527 | 1.661 | 1.482 | 33.01 |
| 80)                                                                             | T | Naphthalene,2-... |       |       | 0.498 | 0.925 | 1.573 | 1.172 | 1.338 | 1.101 | 37.38 |
| 81)                                                                             | T | 1,2,4-Trichlor... |       |       | 0.599 | 0.798 | 0.947 | 0.778 | 0.828 | 0.790 | 15.84 |

(#) = Out of Range

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

## Manual Integrations APPROVED

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\_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 : 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 : VL042460.D  
 Acq On : 01 May 2025 10:08  
 Operator : SY/MD  
 Sample : VSTDIC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

### Manual Integrations APPROVED

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

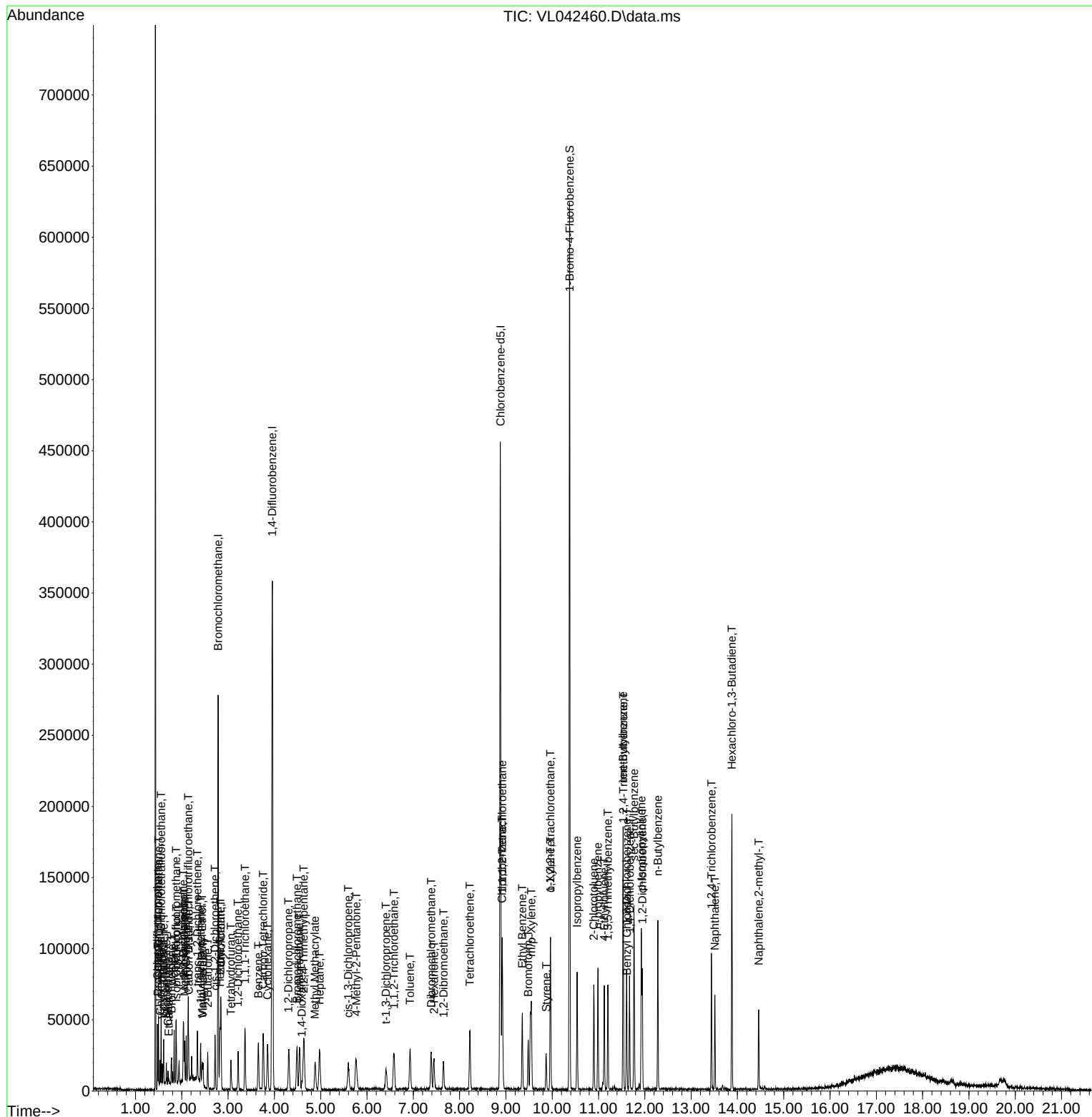
Quant Time: May 02 01:41:24 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_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 : 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 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) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 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 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         | 2.787  | 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

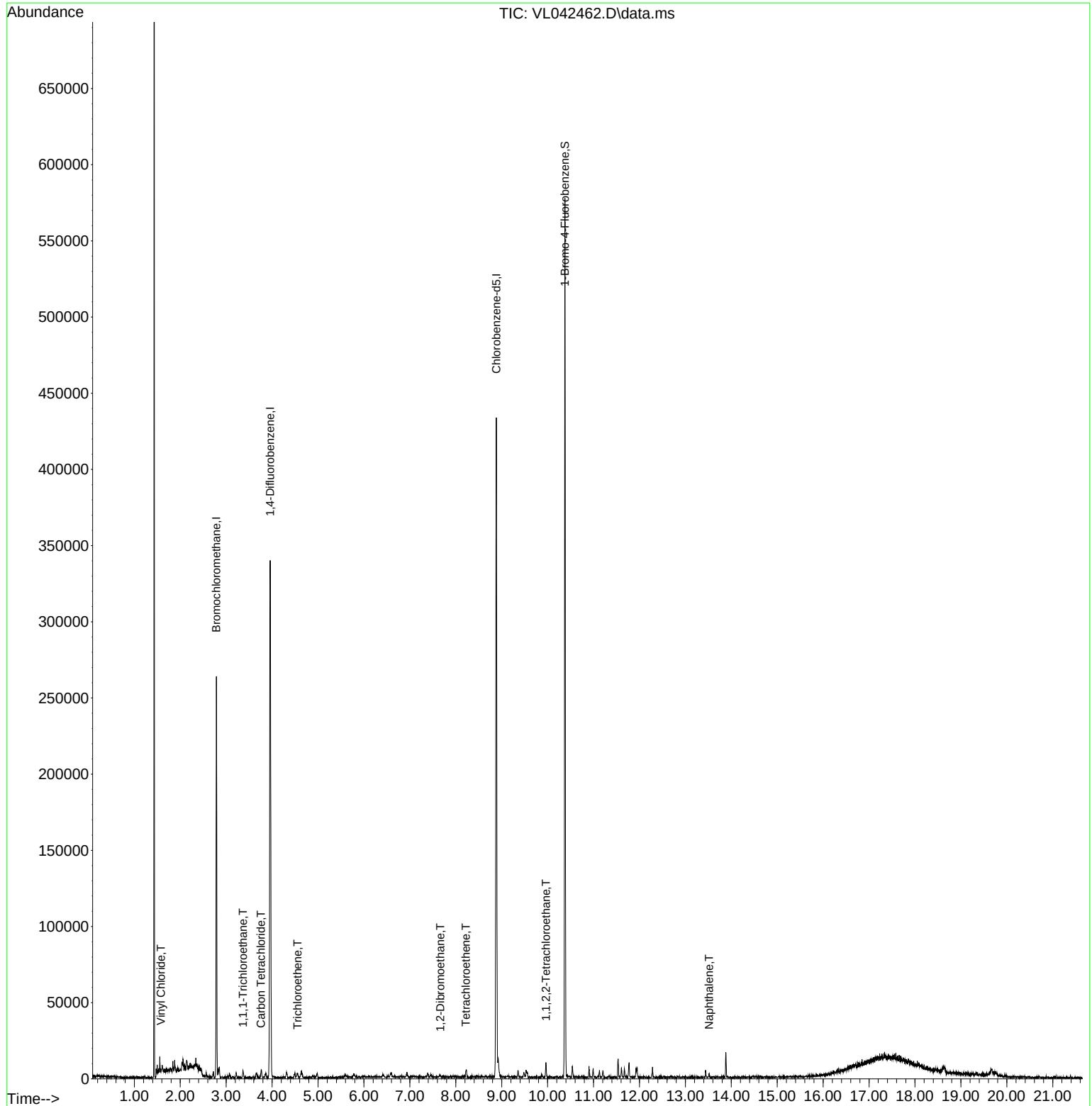
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
Data File : VL042462.D  
Acq On : 01 May 2025 11:12  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

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

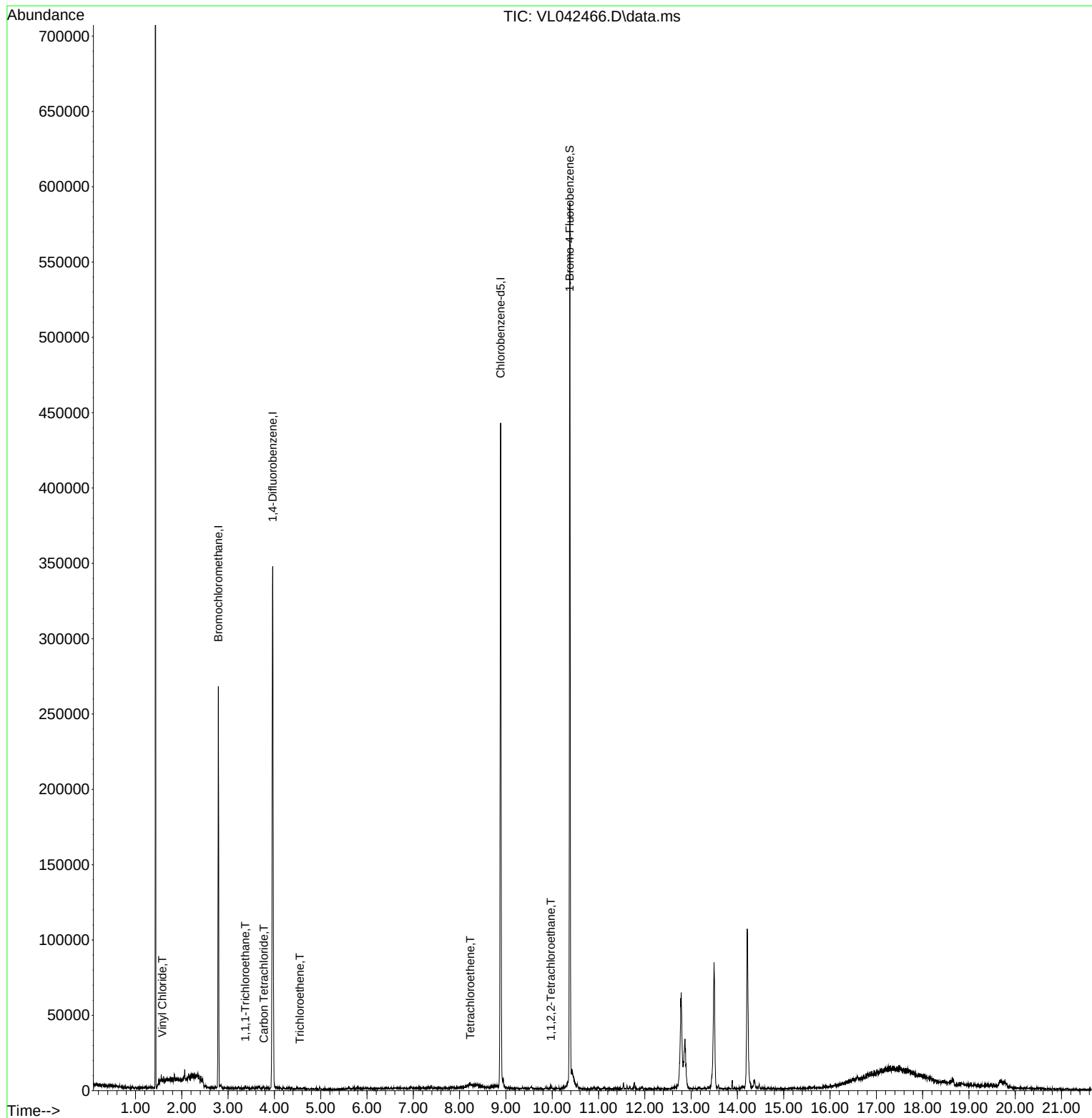
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
Data File : VL042466.D  
Acq On : 01 May 2025 14:10  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

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\VL050125\  
 Data File : VL042467.D  
 Acq On : 01 May 2025 15:46  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL050125

Manual Integrations  
 APPROVED

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

Quant Time: May 02 03:48:56 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri 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   | 2.790 | 49   | 63539    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 183679   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 156982   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 150522 10.342 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.400%

Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 108782 | 10.346 | ppbv   | 97     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 110290 | 9.921  | ppbv   | 98     |
| 4) Chloromethane              | 1.534 | 50  | 43950  | 10.001 | ppbv   | 96     |
| 5) Vinyl Chloride             | 1.580 | 62  | 41181  | 9.307  | ppbv   | 99     |
| 6) Bromomethane               | 1.667 | 94  | 21021  | 10.055 | ppbv   | 91     |
| 7) Chloroethane               | 1.706 | 64  | 16630  | 10.179 | ppbv   | 90     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 89345  | 10.307 | ppbv   | 99     |
| 9) Propene                    | 1.486 | 41  | 36920  | 10.153 | ppbv   | 97     |
| 10) Heptane                   | 4.985 | 43  | 94631  | 10.033 | ppbv   | 95     |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 100713 | 10.380 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.140 | 101 | 81143  | 10.474 | ppbv   | 99     |
| 13) Ethanol                   | 1.722 | 45  | 5736   | 7.773  | ppbv   | 99     |
| 14) Bromoethene               | 1.780 | 108 | 30094  | 10.522 | ppbv   | 97     |
| 15) Acetone                   | 1.835 | 43  | 95460  | 8.230  | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 49566  | 9.689  | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 102047 | 9.986  | ppbv   | 100    |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 35784  | 9.892  | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 60977  | 9.499  | ppbv   | 99     |
| 20) Methylene Chloride        | 2.062 | 84  | 31212  | 8.951  | ppbv   | 94     |
| 21) Allyl Chloride            | 2.098 | 41  | 73365  | 9.835  | ppbv   | 94     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 42922  | 10.160 | ppbv   | 96     |
| 23) Vinyl Acetate             | 2.463 | 43  | 113131 | 10.220 | ppbv # | 98     |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 89117  | 10.340 | ppbv   | 97     |
| 25) Ethyl Acetate             | 2.839 | 43  | 186185 | 10.025 | ppbv   | 99     |
| 26) Hexane                    | 2.826 | 57  | 83132  | 10.275 | ppbv   | 96     |
| 27) Carbon Disulfide          | 2.149 | 76  | 100196 | 10.612 | ppbv   | 96     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 48326  | 9.942  | ppbv   | 100    |
| 29) Chloroform                | 2.852 | 83  | 152381 | 10.050 | ppbv   | 96     |
| 30) Cyclohexane               | 3.858 | 84  | 70581  | 10.434 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 95793  | 10.148 | ppbv   | 96     |
| 32) 1,1,1-Trichloroethane     | 3.370 | 97  | 161465 | 9.816  | ppbv   | 99     |
| 34) 2-Butanone                | 2.560 | 43  | 125883 | 9.475  | ppbv   | 97     |
| 35) Carbon Tetrachloride      | 3.764 | 117 | 166814 | 9.998  | ppbv   | 97     |
| 36) Benzene                   | 3.658 | 78  | 171384 | 9.888  | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.221 | 62  | 130063 | 9.736  | ppbv   | 100    |
| 38) Trichloroethene           | 4.551 | 130 | 65940  | 9.976  | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.315 | 63  | 60010  | 9.248  | ppbv   | 95     |
| 40) 1,4-Dioxane               | 4.583 | 88  | 28306m | 9.316  | ppbv   |        |
| 41) Tetrahydrofuran           | 3.059 | 42  | 59604  | 9.440  | ppbv   | 98     |
| 42) Bromodichloromethane      | 4.489 | 83  | 163210 | 9.999  | ppbv   | 95     |
| 43) Methyl Methacrylate       | 4.881 | 69  | 67516  | 10.438 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 4.642 | 57  | 277217 | 9.867  | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 89638m | 10.563 | ppbv   |        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042467.D  
 Acq On : 01 May 2025 15:46  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL050125

Manual Integrations  
 APPROVED

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

Quant Time: May 02 03:48:56 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 03:16:31 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.609  | 75   | 104665   | 10.378 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 6.584  | 97   | 67821    | 9.530  | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.393  | 129  | 121381   | 10.103 | ppbv   | 97       |
| 49) Bromoform                 | 9.487  | 173  | 102150   | 10.138 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 159280   | 9.478  | ppbv   | 99       |
| 51) 2-Hexanone                | 7.438  | 43   | 126396   | 9.407  | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.228  | 164  | 58272    | 8.832  | ppbv   | 96       |
| 53) Toluene                   | 6.940  | 91   | 191922   | 10.461 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.658  | 107  | 105149   | 9.664  | ppbv   | 95       |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 92337    | 9.959  | ppbv   | 97       |
| 57) Chlorobenzene             | 8.927  | 112  | 148759   | 9.431  | ppbv   | 92       |
| 58) Ethyl Benzene             | 9.357  | 91   | 280660   | 10.698 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.555  | 91   | 468984m  | 21.324 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 238347   | 10.824 | ppbv   | 97       |
| 61) Styrene                   | 9.872  | 104  | 91128    | 11.090 | ppbv   | 97       |
| 62) Isopropylbenzene          | 10.542 | 105  | 337992   | 10.641 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.966  | 83   | 140306   | 9.242  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.992 | 120  | 79983    | 10.303 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 302506   | 10.672 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.617 | 91   | 34933    | 10.663 | ppbv   | 97       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 425444   | 10.562 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 363563   | 10.712 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.283 | 91   | 371369   | 10.585 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.905 | 91   | 264063   | 10.599 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 287375   | 11.069 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 247128   | 10.823 | ppbv   | 93       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 278306   | 10.074 | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 150026   | 9.754  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 151740   | 10.425 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 146314   | 9.719  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 133688   | 8.893  | ppbv   | 99       |
| 79) Naphthalene               | 13.516 | 128  | 251318   | 10.806 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 198604   | 11.489 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 129406   | 10.433 | ppbv   | 98       |

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

## Manual Integrations

Quant Time: May 02 03:48:56 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 03:16:31 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042467.D  
 Acq On : 01 May 2025 15:46  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL050125

Quant Time: May 02 03:48:56 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

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0  | 89    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.655 | 1.712 | -3.4 | 104   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.750 | 1.736 | 0.8  | 98    | 0.00     |
| 4    | Chloromethane               | 0.692 | 0.692 | 0.0  | 99    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.696 | 0.648 | 6.9  | 102   | 0.00     |
| 6 T  | Bromomethane                | 0.329 | 0.331 | -0.6 | 103   | 0.00     |
| 7    | Chloroethane                | 0.257 | 0.262 | -1.9 | 101   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.364 | 1.406 | -3.1 | 101   | 0.00     |
| 9 T  | Propene                     | 0.572 | 0.581 | -1.6 | 98    | 0.00     |
| 10 T | Heptane                     | 1.484 | 1.489 | -0.3 | 92    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.527 | 1.585 | -3.8 | 103   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.219 | 1.277 | -4.8 | 103   | 0.00     |
| 13   | Ethanol                     | 0.116 | 0.090 | 22.4 | 101   | 0.00     |
| 14 T | Bromoethene                 | 0.450 | 0.474 | -5.3 | 106   | 0.00     |
| 15 T | Acetone                     | 1.826 | 1.502 | 17.7 | 101   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.805 | 0.780 | 3.1  | 102   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.608 | 1.606 | 0.1  | 96    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.569 | 0.563 | 1.1  | 101   | 0.00     |
| 19 T | Isopropyl Alcohol           | 1.010 | 0.960 | 5.0  | 98    | 0.00     |
| 20 T | Methylene Chloride          | 0.549 | 0.491 | 10.6 | 97    | 0.00     |
| 21 T | Allyl Chloride              | 1.174 | 1.155 | 1.6  | 95    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.665 | 0.676 | -1.7 | 109   | 0.00     |
| 23 T | Vinyl Acetate               | 1.742 | 1.780 | -2.2 | 92    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.357 | 1.403 | -3.4 | 104   | 0.00     |
| 25 T | Ethyl Acetate               | 2.923 | 2.930 | -0.2 | 92    | 0.00     |
| 26 T | Hexane                      | 1.273 | 1.308 | -2.7 | 96    | 0.00     |
| 27 T | Carbon Disulfide            | 1.486 | 1.577 | -6.1 | 99    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.765 | 0.761 | 0.5  | 101   | 0.00     |
| 29 T | Chloroform                  | 2.386 | 2.398 | -0.5 | 97    | 0.00     |
| 30 T | Cyclohexane                 | 1.065 | 1.111 | -4.3 | 95    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.486 | 1.508 | -1.5 | 100   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.589 | 2.541 | 1.9  | 99    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 91    | 0.00     |
| 34 T | 2-Butanone                  | 0.723 | 0.685 | 5.3  | 95    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.908 | 0.908 | 0.0  | 100   | 0.00     |
| 36 T | Benzene                     | 0.944 | 0.933 | 1.2  | 95    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.727 | 0.708 | 2.6  | 97    | 0.00     |
| 38 T | Trichloroethene             | 0.360 | 0.359 | 0.3  | 94    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.353 | 0.327 | 7.4  | 94    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.165 | 0.154 | 6.7  | 93    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.344 | 0.325 | 5.5  | 91    | 0.00     |
| 42 T | Bromodichloromethane        | 0.889 | 0.889 | 0.0  | 97    | 0.00     |
| 43   | Methyl Methacrylate         | 0.352 | 0.368 | -4.5 | 92    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.530 | 1.509 | 1.4  | 96    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.462 | 0.488 | -5.6 | 93    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.549 | 0.570 | -3.8 | 94    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.387 | 0.369 | 4.7  | 94    | 0.00     |
| 48 T | Dibromochloromethane        | 0.654 | 0.661 | -1.1 | 96    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042467.D  
 Acq On : 01 May 2025 15:46  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL050125

Quant Time: May 02 03:48:56 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

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|---------------------------|-------|-------|-------|-------|----------|
| 49 T | Bromoform                 | 0.549 | 0.556 | -1.3  | 96    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.915 | 0.867 | 5.2   | 91    | 0.00     |
| 51 T | 2-Hexanone                | 0.731 | 0.688 | 5.9   | 87    | 0.00     |
| 52 T | Tetrachloroethene         | 0.359 | 0.317 | 11.7  | 95    | 0.00     |
| 53 T | Toluene                   | 0.999 | 1.045 | -4.6  | 94    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.592 | 0.572 | 3.4   | 94    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.591 | 0.588 | 0.5   | 98    | 0.00     |
| 57 T | Chlorobenzene             | 1.005 | 0.948 | 5.7   | 95    | 0.00     |
| 58 T | Ethyl Benzene             | 1.671 | 1.788 | -7.0  | 93    | 0.00     |
| 59 T | m/p-Xylene                | 1.401 | 1.494 | -6.6  | 94    | 0.03     |
| 60 T | o-Xylene                  | 1.403 | 1.518 | -8.2  | 96    | 0.00     |
| 61 T | Styrene                   | 0.523 | 0.580 | -10.9 | 90    | 0.00     |
| 62   | Isopropylbenzene          | 2.023 | 2.153 | -6.4  | 95    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.967 | 0.894 | 7.5   | 95    | 0.00     |
| 64   | n-propylbenzene           | 0.495 | 0.510 | -3.0  | 95    | 0.00     |
| 65   | tert-Butylbenzene         | 1.806 | 1.927 | -6.7  | 96    | 0.00     |
| 66 T | Benzyl Chloride           | 0.209 | 0.223 | -6.7  | 87    | 0.00     |
| 67   | sec-Butylbenzene          | 2.566 | 2.710 | -5.6  | 96    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.927 | 0.959 | -3.5  | 91    | 0.00     |
| 69   | p-Isopropyltoluene        | 2.162 | 2.316 | -7.1  | 97    | 0.00     |
| 70   | n-Butylbenzene            | 2.235 | 2.366 | -5.9  | 97    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.587 | 1.682 | -6.0  | 95    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.654 | 1.831 | -10.7 | 96    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.455 | 1.574 | -8.2  | 96    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.760 | 1.773 | -0.7  | 97    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.980 | 0.956 | 2.4   | 96    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.927 | 0.967 | -4.3  | 96    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.959 | 0.932 | 2.8   | 97    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.958 | 0.852 | 11.1  | 99    | 0.00     |
| 79 T | Naphthalene               | 1.482 | 1.601 | -8.0  | 94    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 1.101 | 1.265 | -14.9 | 97    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.790 | 0.824 | -4.3  | 96    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042467.D  
 Acq On : 01 May 2025 15:46  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICSVVL050125

Quant Time: May 02 03:48:56 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

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0  | 89    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 10.346 | -3.5 | 104   | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.921  | 0.8  | 98    | 0.00     |
| 4    | Chloromethane               | 10.000 | 10.001 | -0.0 | 99    | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 9.307  | 6.9  | 102   | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 10.055 | -0.5 | 103   | 0.00     |
| 7    | Chloroethane                | 10.000 | 10.179 | -1.8 | 101   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 10.307 | -3.1 | 101   | 0.00     |
| 9 T  | Propene                     | 10.000 | 10.153 | -1.5 | 98    | 0.00     |
| 10 T | Heptane                     | 10.000 | 10.033 | -0.3 | 92    | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 10.380 | -3.8 | 103   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 10.474 | -4.7 | 103   | 0.00     |
| 13   | Ethanol                     | 10.000 | 7.773  | 22.3 | 101   | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 10.522 | -5.2 | 106   | 0.00     |
| 15 T | Acetone                     | 10.000 | 8.230  | 17.7 | 101   | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 9.689  | 3.1  | 102   | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 9.986  | 0.1  | 96    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 9.892  | 1.1  | 101   | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 9.499  | 5.0  | 98    | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 8.951  | 10.5 | 97    | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 9.835  | 1.6  | 95    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 10.160 | -1.6 | 109   | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 10.220 | -2.2 | 92    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 10.340 | -3.4 | 104   | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 10.025 | -0.3 | 92    | 0.00     |
| 26 T | Hexane                      | 10.000 | 10.275 | -2.8 | 96    | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 10.612 | -6.1 | 99    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 9.942  | 0.6  | 101   | 0.00     |
| 29 T | Chloroform                  | 10.000 | 10.050 | -0.5 | 97    | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 10.434 | -4.3 | 95    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 10.148 | -1.5 | 100   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.816  | 1.8  | 99    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0  | 91    | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 9.475  | 5.3  | 95    | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 9.998  | 0.0  | 100   | 0.00     |
| 36 T | Benzene                     | 10.000 | 9.888  | 1.1  | 95    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 9.736  | 2.6  | 97    | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 9.976  | 0.2  | 94    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.248  | 7.5  | 94    | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 9.316  | 6.8  | 93    | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 9.440  | 5.6  | 91    | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 9.999  | 0.0  | 97    | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 10.438 | -4.4 | 92    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 9.867  | 1.3  | 96    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 10.563 | -5.6 | 93    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 10.378 | -3.8 | 94    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 9.530  | 4.7  | 94    | 0.00     |
| 48 T | Dibromochloromethane        | 10.000 | 10.103 | -1.0 | 96    | 0.00     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050125\  
 Data File : VL042467.D  
 Acq On : 01 May 2025 15:46  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL050125

Quant Time: May 02 03:48:56 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

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|       | Compound                  | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|-------|---------------------------|--------|--------|-------|-------|----------|
| ----- |                           |        |        |       |       |          |
| 49 T  | Bromoform                 | 10.000 | 10.138 | -1.4  | 96    | 0.00     |
| 50 T  | 4-Methyl-2-Pentanone      | 10.000 | 9.478  | 5.2   | 91    | 0.00     |
| 51 T  | 2-Hexanone                | 10.000 | 9.407  | 5.9   | 87    | 0.00     |
| 52 T  | Tetrachloroethene         | 10.000 | 8.832  | 11.7  | 95    | 0.00     |
| 53 T  | Toluene                   | 10.000 | 10.461 | -4.6  | 94    | 0.00     |
| 54 T  | 1,2-Dibromoethane         | 10.000 | 9.664  | 3.4   | 94    | 0.00     |
| ----- |                           |        |        |       |       |          |
| 55 I  | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0   | 90    | 0.00     |
| 56    | 1,1,1,2-Tetrachloroethane | 10.000 | 9.959  | 0.4   | 98    | 0.00     |
| 57 T  | Chlorobenzene             | 10.000 | 9.431  | 5.7   | 95    | 0.00     |
| 58 T  | Ethyl Benzene             | 10.000 | 10.698 | -7.0  | 93    | 0.00     |
| 59 T  | m/p-Xylene                | 20.000 | 21.324 | -6.6  | 94    | 0.03     |
| 60 T  | o-Xylene                  | 10.000 | 10.824 | -8.2  | 96    | 0.00     |
| 61 T  | Styrene                   | 10.000 | 11.090 | -10.9 | 90    | 0.00     |
| 62    | Isopropylbenzene          | 10.000 | 10.641 | -6.4  | 95    | 0.00     |
| 63 T  | 1,1,2,2-Tetrachloroethane | 10.000 | 9.242  | 7.6   | 95    | 0.00     |
| 64    | n-propylbenzene           | 10.000 | 10.303 | -3.0  | 95    | 0.00     |
| 65    | tert-Butylbenzene         | 10.000 | 10.672 | -6.7  | 96    | 0.00     |
| 66 T  | Benzyl Chloride           | 10.000 | 10.663 | -6.6  | 87    | 0.00     |
| 67    | sec-Butylbenzene          | 10.000 | 10.562 | -5.6  | 96    | 0.00     |
| 68 S  | 1-Bromo-4-Fluorobenzene   | 10.000 | 10.342 | -3.4  | 91    | 0.00     |
| 69    | p-Isopropyltoluene        | 10.000 | 10.712 | -7.1  | 97    | 0.00     |
| 70    | n-Butylbenzene            | 10.000 | 10.585 | -5.9  | 97    | 0.00     |
| 71    | 2-Chlorotoluene           | 10.000 | 10.599 | -6.0  | 95    | 0.00     |
| 72 T  | 4-Ethyltoluene            | 10.000 | 11.069 | -10.7 | 96    | 0.00     |
| 73 T  | 1,3,5-Trimethylbenzene    | 10.000 | 10.823 | -8.2  | 96    | 0.00     |
| 74 T  | 1,2,4-Trimethylbenzene    | 10.000 | 10.074 | -0.7  | 97    | 0.00     |
| 75 T  | 1,3-Dichlorobenzene       | 10.000 | 9.754  | 2.5   | 96    | 0.00     |
| 76 T  | 1,4-Dichlorobenzene       | 10.000 | 10.425 | -4.3  | 96    | 0.00     |
| 77 T  | 1,2-Dichlorobenzene       | 10.000 | 9.719  | 2.8   | 97    | 0.00     |
| 78 T  | Hexachloro-1,3-Butadiene  | 10.000 | 8.893  | 11.1  | 99    | 0.00     |
| 79 T  | Naphthalene               | 10.000 | 10.806 | -8.1  | 94    | 0.00     |
| 80 T  | Naphthalene,2-methyl-     | 10.000 | 11.489 | -14.9 | 97    | 0.00     |
| 81 T  | 1,2,4-Trichlorobenzene    | 10.000 | 10.433 | -4.3  | 96    | 0.00     |
| ----- |                           |        |        |       |       |          |

(#) = Out of Range

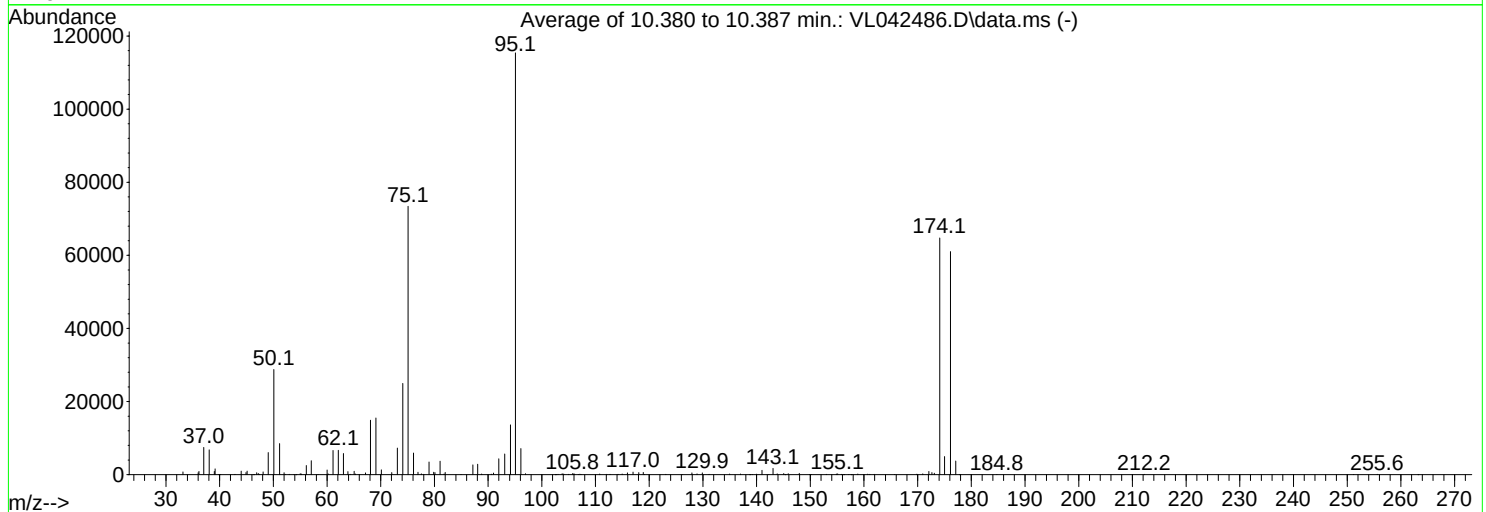
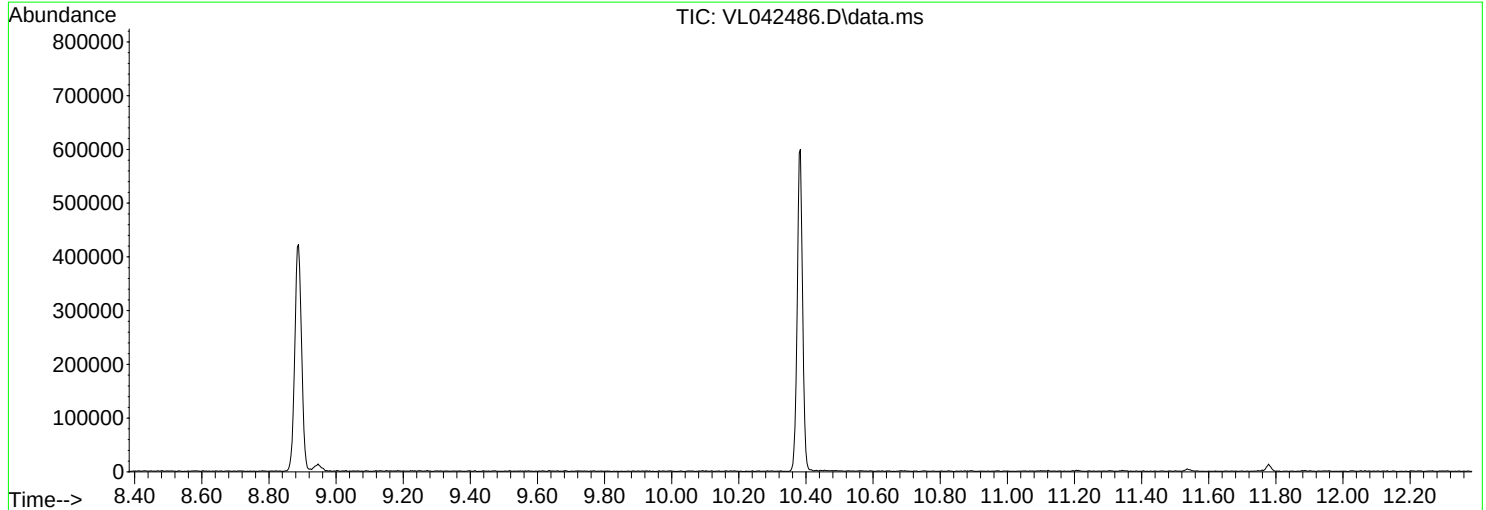
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050625\  
Data File : VL042486.D  
Acq On : 06 May 2025 08:16  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Fri May 02 03:16:31 2025



AutoFind: Scans 3180, 3181, 3182; Background Corrected with Scan 3165

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 24.9  | 28768  | PASS      |
| 75     | 95      | 30     | 66     | 63.6  | 73411  | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 115408 | PASS      |
| 96     | 95      | 5      | 9      | 6.2   | 7151   | PASS      |
| 173    | 174     | 0.00   | 2      | 0.6   | 392    | PASS      |
| 174    | 95      | 50     | 120    | 56.1  | 64757  | PASS      |
| 175    | 174     | 4      | 9      | 7.6   | 4952   | PASS      |
| 176    | 174     | 93     | 101    | 94.3  | 61040  | PASS      |
| 177    | 176     | 5      | 9      | 6.1   | 3717   | PASS      |

Average of 10.380 to 10.387 min.: VL042486.D\data.ms

BFB

Modified:subtracted

| m/z   | abund. | m/z   | abund. | m/z   | abund. | m/z   | abund. |
|-------|--------|-------|--------|-------|--------|-------|--------|
| 33.15 | 747    | 44.90 | 582    | 52.20 | 94     | 61.10 | 660    |
| 36.00 | 545    | 45.10 | 985    | 52.95 | 69     | 62.10 | 665    |
| 36.15 | 878    | 46.30 | 22     | 53.85 | 41     | 63.05 | 578    |
| 37.05 | 7441   | 46.90 | 529    | 54.20 | 18     | 63.90 | 84     |
| 38.05 | 6773   | 47.20 | 308    | 55.00 | 259    | 64.30 | 110    |
| 39.00 | 897    | 47.40 | 72     | 55.20 | 175    | 65.05 | 918    |
| 39.15 | 1576   | 48.10 | 752    | 56.15 | 2518   | 65.30 | 159    |
| 39.85 | 23     | 49.05 | 6031   | 57.05 | 3793   | 66.00 | 34     |
| 40.20 | 61     | 50.10 | 28768  | 58.30 | 28     | 67.15 | 491    |
| 42.85 | 71     | 51.15 | 8478   | 60.00 | 1254   | 68.10 | 14901  |
| 44.00 | 958    | 52.00 | 525    | 60.20 | 226    | 69.10 | 15494  |

Average of 10.380 to 10.387 min.: VL042486.D\data.ms

BFB

Modified:subtracted

| m/z   | abund. | m/z   | abund. | m/z    | abund. | m/z    | abund. |
|-------|--------|-------|--------|--------|--------|--------|--------|
| 70.10 | 1325   | 80.10 | 556    | 93.10  | 5635   | 105.75 | 322    |
| 72.05 | 564    | 81.05 | 3686   | 94.15  | 13628  | 105.90 | 194    |
| 73.10 | 7278   | 81.80 | 196    | 95.10  | 115408 | 106.10 | 172    |
| 74.10 | 24939  | 82.00 | 613    | 96.10  | 7151   | 106.80 | 52     |
| 75.10 | 73411  | 84.95 | 66     | 96.95  | 257    | 107.10 | 128    |
| 76.10 | 5928   | 87.15 | 2690   | 102.50 | 22     | 107.30 | 42     |
| 76.95 | 655    | 88.05 | 2835   | 102.70 | 28     | 110.80 | 179    |
| 77.55 | 207    | 88.80 | 159    | 103.00 | 95     | 112.10 | 73     |
| 78.00 | 96     | 90.60 | 120    | 103.80 | 278    | 112.70 | 80     |
| 79.00 | 3478   | 91.00 | 425    | 104.10 | 183    | 114.20 | 69     |
| 79.85 | 642    | 92.00 | 4328   | 105.00 | 87     | 114.95 | 166    |

Average of 10.380 to 10.387 min.: VL042486.D\data.ms

BFB

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 115.95 | 480    | 135.00 | 181    | 145.90 | 262    | 158.85 | 167    |
| 117.00 | 698    | 137.00 | 180    | 147.95 | 337    | 159.95 | 51     |
| 118.05 | 579    | 138.70 | 20     | 149.90 | 36     | 160.70 | 143    |
| 118.90 | 617    | 139.20 | 59     | 150.15 | 40     | 161.10 | 88     |
| 119.10 | 39     | 140.00 | 122    | 153.00 | 88     | 161.90 | 82     |
| 123.10 | 89     | 141.00 | 1204   | 154.85 | 173    | 165.70 | 24     |
| 126.15 | 49     | 142.30 | 55     | 155.10 | 201    | 169.85 | 126    |
| 127.95 | 479    | 143.05 | 1695   | 155.80 | 86     | 170.95 | 206    |
| 128.90 | 208    | 143.85 | 231    | 156.20 | 19     | 172.10 | 875    |
| 129.90 | 494    | 145.05 | 308    | 157.20 | 59     | 172.65 | 561    |
| 131.15 | 80     | 145.30 | 19     | 157.60 | 18     | 173.10 | 392    |

Average of 10.380 to 10.387 min.: VL042486.D\data.ms

BFB

Modified:subtracted

| m/z    | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|--------|--------|-----|--------|-----|--------|-----|--------|
| 174.10 | 64757  |     |        |     |        |     |        |
| 175.00 | 4952   |     |        |     |        |     |        |
| 176.10 | 61040  |     |        |     |        |     |        |
| 177.10 | 3717   |     |        |     |        |     |        |
| 177.80 | 21     |     |        |     |        |     |        |
| 184.75 | 55     |     |        |     |        |     |        |
| 212.20 | 72     |     |        |     |        |     |        |
| 251.20 | 54     |     |        |     |        |     |        |
| 255.60 | 73     |     |        |     |        |     |        |
| 263.20 | 21     |     |        |     |        |     |        |

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  
 LabSampleId :  
 VSTDCCC010

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 26 06:05:16 2022  
 QLast Update : Fri May 02 03:16:31 2025  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.655 | 1.897 | -14.6 | 125   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.750 | 1.729 | 1.2   | 107   | 0.00     |
| 4    | Chloromethane               | 0.692 | 0.748 | -8.1  | 116   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.696 | 0.686 | 1.4   | 117   | 0.00     |
| 6 T  | Bromomethane                | 0.329 | 0.371 | -12.8 | 126   | 0.00     |
| 7    | Chloroethane                | 0.257 | 0.274 | -6.6  | 115   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.364 | 1.527 | -12.0 | 120   | 0.00     |
| 9 T  | Propene                     | 0.572 | 0.497 | 13.1  | 92    | 0.00     |
| 10 T | Heptane                     | 1.484 | 1.489 | -0.3  | 100   | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.527 | 1.787 | -17.0 | 126   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.219 | 1.355 | -11.2 | 120   | 0.00     |
| 13   | Ethanol                     | 0.116 | 0.092 | 20.7  | 112   | 0.00     |
| 14 T | Bromoethene                 | 0.450 | 0.524 | -16.4 | 128   | 0.00     |
| 15 T | Acetone                     | 1.826 | 1.611 | 11.8  | 119   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.805 | 0.802 | 0.4   | 114   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.608 | 1.709 | -6.3  | 111   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.569 | 0.604 | -6.2  | 119   | 0.00     |
| 19 T | Isopropyl Alcohol           | 1.010 | 0.996 | 1.4   | 110   | 0.00     |
| 20 T | Methylene Chloride          | 0.549 | 0.539 | 1.8   | 117   | 0.00     |
| 21 T | Allyl Chloride              | 1.174 | 1.214 | -3.4  | 110   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.665 | 0.682 | -2.6  | 120   | 0.00     |
| 23 T | Vinyl Acetate               | 1.742 | 1.709 | 1.9   | 96    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.357 | 1.445 | -6.5  | 117   | 0.00     |
| 25 T | Ethyl Acetate               | 2.923 | 2.903 | 0.7   | 100   | 0.00     |
| 26 T | Hexane                      | 1.273 | 1.273 | 0.0   | 102   | 0.00     |
| 27 T | Carbon Disulfide            | 1.486 | 1.741 | -17.2 | 119   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.765 | 0.745 | 2.6   | 108   | 0.00     |
| 29 T | Chloroform                  | 2.386 | 2.490 | -4.4  | 110   | 0.00     |
| 30 T | Cyclohexane                 | 1.065 | 1.081 | -1.5  | 100   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.486 | 1.412 | 5.0   | 102   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.589 | 2.635 | -1.8  | 112   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 34 T | 2-Butanone                  | 0.723 | 0.698 | 3.5   | 99    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.908 | 1.011 | -11.3 | 114   | 0.00     |
| 36 T | Benzene                     | 0.944 | 0.966 | -2.3  | 101   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.727 | 0.776 | -6.7  | 109   | 0.00     |
| 38 T | Trichloroethene             | 0.360 | 0.383 | -6.4  | 103   | 0.01     |
| 39 T | 1,2-Dichloropropane         | 0.353 | 0.338 | 4.2   | 100   | 0.01     |
| 40 T | 1,4-Dioxane                 | 0.165 | 0.155 | 6.1   | 97    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.344 | 0.341 | 0.9   | 98    | 0.00     |
| 42 T | Bromodichloromethane        | 0.889 | 0.988 | -11.1 | 110   | 0.01     |
| 43   | Methyl Methacrylate         | 0.352 | 0.386 | -9.7  | 99    | 0.01     |
| 44 T | 2,2,4-Trimethylpentane      | 1.530 | 1.656 | -8.2  | 108   | 0.01     |
| 45 T | t-1,3-Dichloropropene       | 0.462 | 0.495 | -7.1  | 96    | 0.01     |
| 46 T | cis-1,3-Dichloropropene     | 0.549 | 0.575 | -4.7  | 97    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.387 | 0.400 | -3.4  | 105   | 0.00     |
| 48 T | Dibromochloromethane        | 0.654 | 0.713 | -9.0  | 106   | 0.00     |



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  
 LabSampleId :  
 VSTDCCC010

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 26 06:05:16 2022  
 QLast Update : Fri May 02 03:16:31 2025  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|---------------------------|-------|-------|-------|-------|----------|
| 49 T | Bromoform                 | 0.549 | 0.634 | -15.5 | 112   | 0.01     |
| 50 T | 4-Methyl-2-Pentanone      | 0.915 | 0.941 | -2.8  | 101   | 0.01     |
| 51 T | 2-Hexanone                | 0.731 | 0.754 | -3.1  | 98    | 0.00     |
| 52 T | Tetrachloroethene         | 0.359 | 0.336 | 6.4   | 103   | 0.00     |
| 53 T | Toluene                   | 0.999 | 1.090 | -9.1  | 100   | 0.01     |
| 54 T | 1,2-Dibromoethane         | 0.592 | 0.625 | -5.6  | 105   | 0.01     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.591 | 0.651 | -10.2 | 111   | 0.01     |
| 57 T | Chlorobenzene             | 1.005 | 1.048 | -4.3  | 107   | 0.00     |
| 58 T | Ethyl Benzene             | 1.671 | 1.910 | -14.3 | 103   | 0.00     |
| 59 T | m/p-Xylene                | 1.401 | 1.676 | -19.6 | 109   | 0.03     |
| 60 T | o-Xylene                  | 1.403 | 1.685 | -20.1 | 110   | 0.00     |
| 61 T | Styrene                   | 0.523 | 0.619 | -18.4 | 98    | 0.00     |
| 62   | Isopropylbenzene          | 2.023 | 2.384 | -17.8 | 109   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.967 | 1.039 | -7.4  | 114   | 0.00     |
| 64   | n-propylbenzene           | 0.495 | 0.570 | -15.2 | 109   | 0.00     |
| 65   | tert-Butylbenzene         | 1.806 | 2.169 | -20.1 | 111   | 0.00     |
| 66 T | Benzyl Chloride           | 0.209 | 0.267 | -27.8 | 107   | 0.00     |
| 67   | sec-Butylbenzene          | 2.566 | 3.077 | -19.9 | 112   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.927 | 1.025 | -10.6 | 100   | 0.00     |
| 69   | p-Isopropyltoluene        | 2.162 | 2.579 | -19.3 | 111   | 0.00     |
| 70   | n-Butylbenzene            | 2.235 | 2.714 | -21.4 | 114   | 0.00     |
| 71   | 2-Chlorotoluene           | 1.587 | 1.883 | -18.7 | 109   | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.654 | 2.055 | -24.2 | 111   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.455 | 1.781 | -22.4 | 112   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.760 | 2.013 | -14.4 | 113   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.980 | 1.085 | -10.7 | 113   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.927 | 1.104 | -19.1 | 113   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.959 | 1.058 | -10.3 | 114   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.958 | 0.944 | 1.5   | 113   | 0.00     |
| 79 T | Naphthalene               | 1.482 | 1.813 | -22.3 | 110   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 1.101 | 1.395 | -26.7 | 110   | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.790 | 0.881 | -11.5 | 105   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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  
 LabSampleId :  
 VSTDCCC010

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 26 06:05:16 2022  
 QLast Update : Fri May 02 03:16:31 2025  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0   | 97    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 11.466 | -14.7 | 125   | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.883  | 1.2   | 107   | 0.00     |
| 4    | Chloromethane               | 10.000 | 10.814 | -8.1  | 116   | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 9.847  | 1.5   | 117   | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 11.263 | -12.6 | 126   | 0.00     |
| 7    | Chloroethane                | 10.000 | 10.651 | -6.5  | 115   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 11.192 | -11.9 | 120   | 0.00     |
| 9 T  | Propene                     | 10.000 | 8.689  | 13.1  | 92    | 0.00     |
| 10 T | Heptane                     | 10.000 | 10.030 | -0.3  | 100   | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 11.700 | -17.0 | 126   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 11.114 | -11.1 | 120   | 0.00     |
| 13   | Ethanol                     | 10.000 | 7.889  | 21.1  | 112   | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 11.645 | -16.4 | 128   | 0.00     |
| 15 T | Acetone                     | 10.000 | 8.825  | 11.8  | 119   | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 9.963  | 0.4   | 114   | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 10.628 | -6.3  | 111   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 10.614 | -6.1  | 119   | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 9.856  | 1.4   | 110   | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 9.829  | 1.7   | 117   | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 10.342 | -3.4  | 110   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 10.253 | -2.5  | 120   | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 9.809  | 1.9   | 96    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 10.651 | -6.5  | 117   | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 9.931  | 0.7   | 100   | 0.00     |
| 26 T | Hexane                      | 10.000 | 9.993  | 0.1   | 102   | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 11.716 | -17.2 | 119   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 9.740  | 2.6   | 108   | 0.00     |
| 29 T | Chloroform                  | 10.000 | 10.435 | -4.4  | 110   | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 10.153 | -1.5  | 100   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 9.503  | 5.0   | 102   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 10.179 | -1.8  | 112   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 93    | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 9.645  | 3.6   | 99    | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 11.127 | -11.3 | 114   | 0.00     |
| 36 T | Benzene                     | 10.000 | 10.233 | -2.3  | 101   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 10.669 | -6.7  | 109   | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 10.630 | -6.3  | 103   | 0.01     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.570  | 4.3   | 100   | 0.01     |
| 40 T | 1,4-Dioxane                 | 10.000 | 9.396  | 6.0   | 97    | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 9.932  | 0.7   | 98    | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 11.113 | -11.1 | 110   | 0.01     |
| 43   | Methyl Methacrylate         | 10.000 | 10.960 | -9.6  | 99    | 0.01     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 10.824 | -8.2  | 108   | 0.01     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 10.719 | -7.2  | 96    | 0.01     |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 10.473 | -4.7  | 97    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 10.320 | -3.2  | 105   | 0.00     |
| 48 T | Dibromochloromethane        | 10.000 | 10.899 | -9.0  | 106   | 0.00     |

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  
 LabSampleId :  
 VSTDCCC010

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 26 06:05:16 2022  
 QLast Update : Fri May 02 03:16:31 2025  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|---------------------------|--------|--------|-------|-------|----------|
| 49 T | Bromoform                 | 10.000 | 11.565 | -15.6 | 112   | 0.01     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 10.283 | -2.8  | 101   | 0.01     |
| 51 T | 2-Hexanone                | 10.000 | 10.308 | -3.1  | 98    | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 9.354  | 6.5   | 103   | 0.00     |
| 53 T | Toluene                   | 10.000 | 10.913 | -9.1  | 100   | 0.01     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 10.548 | -5.5  | 105   | 0.01     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0   | 93    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 11.016 | -10.2 | 111   | 0.01     |
| 57 T | Chlorobenzene             | 10.000 | 10.428 | -4.3  | 107   | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 11.431 | -14.3 | 103   | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 23.920 | -19.6 | 109   | 0.03     |
| 60 T | o-Xylene                  | 10.000 | 12.013 | -20.1 | 110   | 0.00     |
| 61 T | Styrene                   | 10.000 | 11.828 | -18.3 | 98    | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 11.784 | -17.8 | 109   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 10.748 | -7.5  | 114   | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 11.517 | -15.2 | 109   | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 12.010 | -20.1 | 111   | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 12.798 | -28.0 | 107   | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 11.992 | -19.9 | 112   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 11.051 | -10.5 | 100   | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 11.931 | -19.3 | 111   | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 12.144 | -21.4 | 114   | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 11.862 | -18.6 | 109   | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 12.424 | -24.2 | 111   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 12.248 | -22.5 | 112   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 11.441 | -14.4 | 113   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 11.074 | -10.7 | 113   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 11.906 | -19.1 | 113   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 11.034 | -10.3 | 114   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 9.859  | 1.4   | 113   | 0.00     |
| 79 T | Naphthalene               | 10.000 | 12.239 | -22.4 | 110   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 12.673 | -26.7 | 110   | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 11.147 | -11.5 | 105   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050625\  
 Data File : VL042488.D  
 Acq On : 06 May 2025 09:49  
 Operator : SY/MD  
 Sample : VL0506ABL01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0506ABL01

Quant Time: May 07 01:36:30 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   | 2.787 | 49   | 71766    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 194806   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.885 | 117  | 158449   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 146316   | 9.960    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.600% |

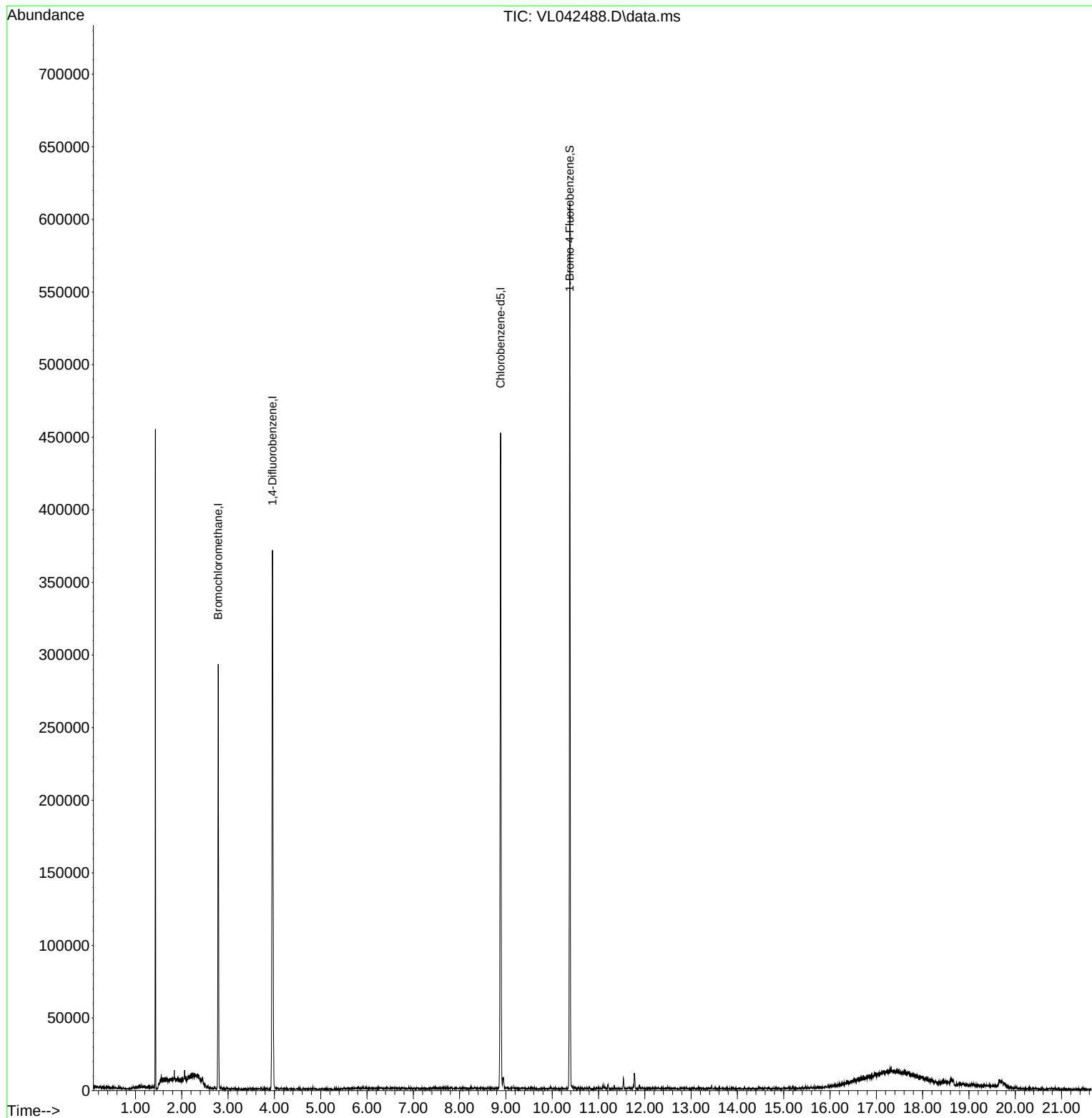
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050625\  
Data File : VL042488.D  
Acq On : 06 May 2025 09:49  
Operator : SY/MD  
Sample : VL0506ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0506ABL01

Quant Time: May 07 01:36:30 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



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\_LFri 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

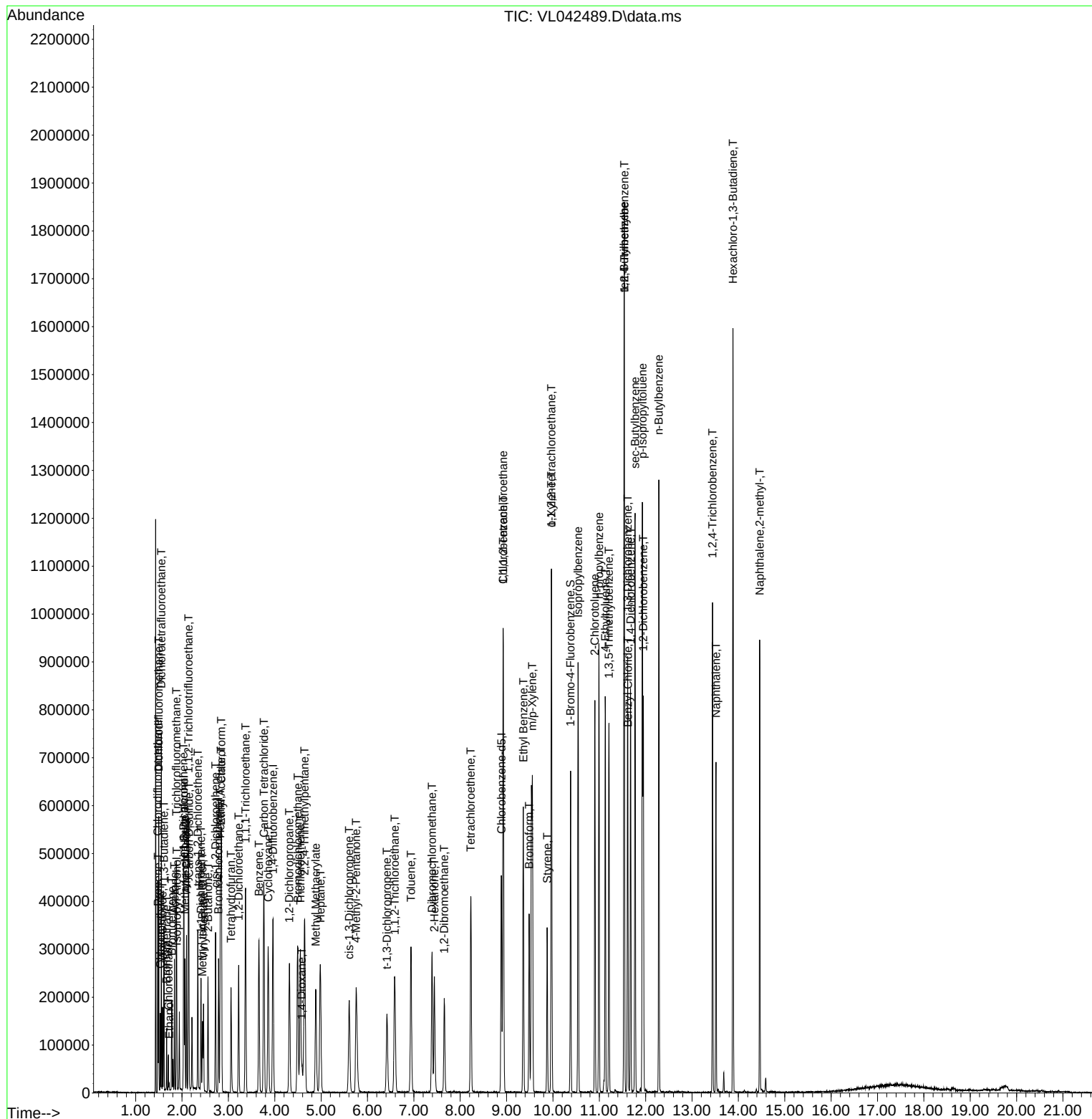
Quant Time: May 07 01:36:51 2025

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 : VL042492.D  
 Acq On : 06 May 2025 12:19  
 Operator : SY/MD  
 Sample : QC042225 CAN 10669  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 QC042225 CAN 10669

Quant Time: May 07 01:38:22 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

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 63187    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 172595   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 143665   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.384 | 95    | 131884   | 9.901    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.000% |

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

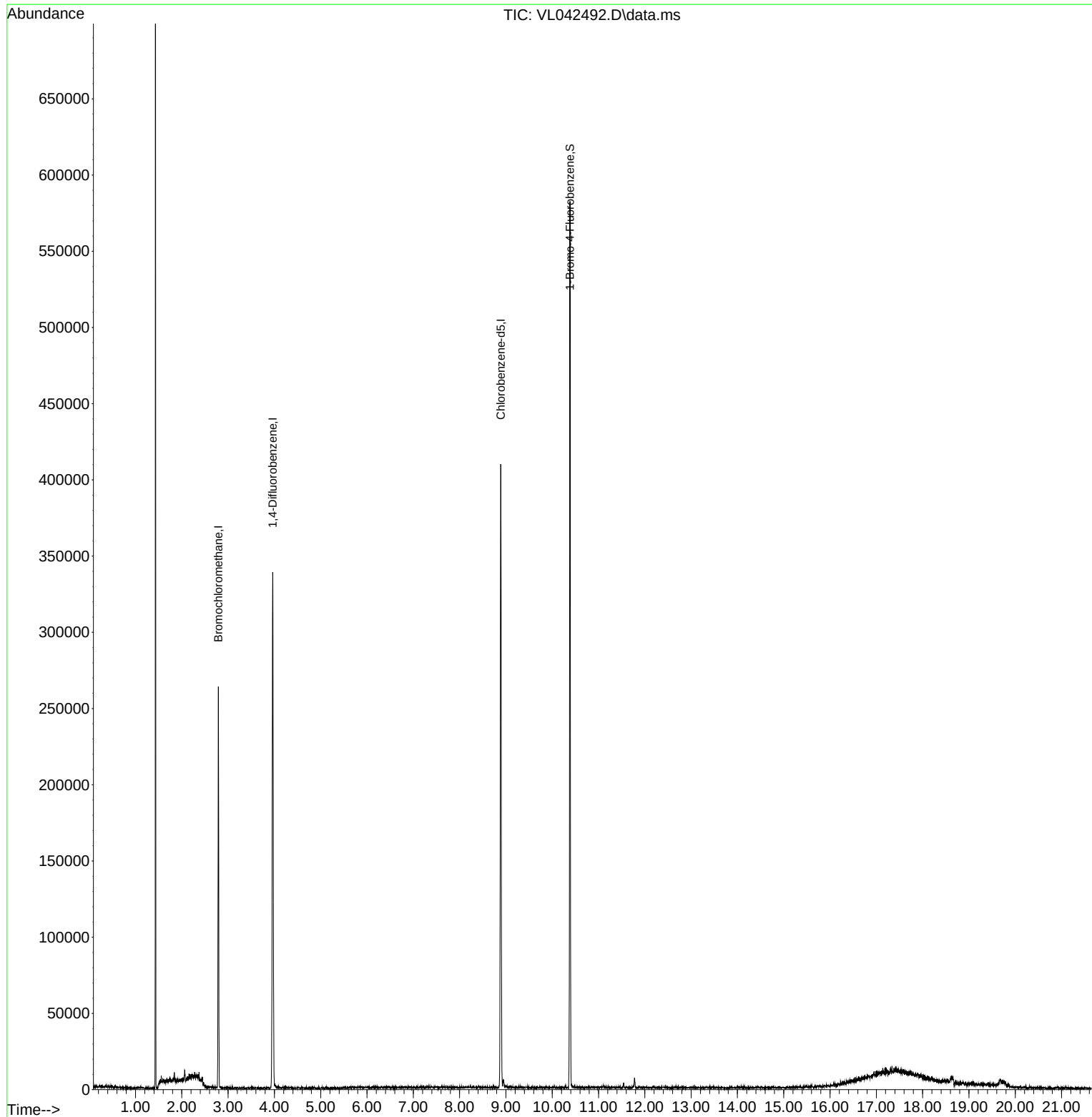
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050625\  
Data File : VL042492.D  
Acq On : 06 May 2025 12:19  
Operator : SY/MD  
Sample : QC042225 CAN 10669  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC042225 CAN 10669

Quant Time: May 07 01:38:22 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



Instrument ID: **MSVOA\_L**

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

|                          |                     |                      |                     |                      |               |
|--------------------------|---------------------|----------------------|---------------------|----------------------|---------------|
| Review By                | Semsettin Yesilyurt | Review On            | 5/2/2025 7:59:23 AM |                      |               |
| Supervise By             | Maresh Dadoda       | Supervise On         | 5/5/2025 2:55:39 PM |                      |               |
| SubDirectory             | VL050125            | 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             |                     |                      |                     |                      |               |

| 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                | Semsettin Yesilyurt  | Review On            | 5/9/2025 2:37:46 PM |
| Supervise By             | Maresh Dadoda        | Supervise On         | 5/9/2025 2:51:31 PM |
| 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                | Semsettin Yesilyurt | Review On            | 5/9/2025 2:37:46 PM |                      |               |
|--------------------------|---------------------|----------------------|---------------------|----------------------|---------------|
| Supervise By             | Mahesh Dadoda       | Supervise On         | 5/9/2025 2:51:31 PM |                      |               |
| 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