

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042548.D
 Acq On : 20 May 2025 10:18
 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 05/21/2025
 Supervised By : Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:25:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue May 20 23:22:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.790	49	122164	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	408860	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	358392	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 287740 10.032 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	23330	1.021	ppbv	99
3) Chlorodifluoromethane	1.476	51	19073	1.014	ppbv	98
4) Chloromethane	1.535	50	7639	1.038	ppbv	97
5) Vinyl Chloride	1.580	62	7935	0.978	ppbv	99
6) Bromomethane	1.671	94	4924	1.055	ppbv	98
7) Chloroethane	1.706	64	3362	1.030	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	19956	1.031	ppbv	99
9) Propene	1.486	41	6614	1.011	ppbv	95
10) Heptane	4.991	43	16310m	0.946	ppbv	
11) Trichlorofluoromethane	1.881	101	24238	1.016	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	19467	1.012	ppbv	99
13) Ethanol	1.722	45	1215	1.281	ppbv	97
14) Bromoethene	1.784	108	7770	1.070	ppbv	89
15) Acetone	1.839	43	19023	1.117	ppbv	96
16) 1,3-Butadiene	1.609	39	7019	1.016	ppbv	88
17) tert-Butyl alcohol	2.046	59	20004	1.017	ppbv	100
18) 1,1-Dichloroethene	2.036	96	8987	1.034	ppbv	99
19) Isopropyl Alcohol	1.887	45	9785	1.011	ppbv #	71
20) Methylene Chloride	2.062	84	8645	1.049	ppbv	99
21) Allyl Chloride	2.098	41	10945	1.004	ppbv	99
22) trans-1,2-Dichloroethene	2.344	96	9930	1.029	ppbv	94
23) Vinyl Acetate	2.464	43	19418	0.983	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	16603	1.004	ppbv	97
25) Ethyl Acetate	2.842	43	32005	0.973	ppbv	98
26) Hexane	2.829	57	14060	0.945	ppbv	93
27) Carbon Disulfide	2.153	76	21898	1.016	ppbv #	77
28) Methyl tert-Butyl Ether	2.444	73	10164	1.014	ppbv	99
29) Chloroform	2.852	83	28469	1.012	ppbv	98
30) Cyclohexane	3.859	84	11957m	0.929	ppbv	
31) cis-1,2-Dichloroethene	2.723	61	15923	0.973	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	27981	0.973	ppbv	98
34) 2-Butanone	2.561	43	22303	1.028	ppbv	97
35) Carbon Tetrachloride	3.768	117	29802	0.956	ppbv	99
36) Benzene	3.664	78	33246	1.005	ppbv	98
37) 1,2-Dichloroethane	3.221	62	19984	0.988	ppbv	100
38) Trichloroethene	4.554	130	14572	0.965	ppbv	95
39) 1,2-Dichloropropane	4.325	63	11688m	1.006	ppbv	
40) 1,4-Dioxane	4.606	88	4848m	0.928	ppbv	
41) Tetrahydrofuran	3.062	42	10122	0.957	ppbv	98
42) Bromodichloromethane	4.493	83	27880	0.978	ppbv	96
43) Methyl Methacrylate	4.891	69	10147m	0.906	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	48881m	0.966	ppbv	
45) t-1,3-Dichloropropene	6.425	75	12676m	0.887	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	15935m	0.918	ppbv	
47) 1,1,2-Trichloroethane	6.594	97	14141	1.016	ppbv	95
48) Dibromochloromethane	7.396	129	22830	0.948	ppbv	95
49) Bromoform	9.490	173	19689	0.958	ppbv	99
50) 4-Methyl-2-Pentanone	5.775	43	24707m	0.951	ppbv	
51) 2-Hexanone	7.451	43	16526m	0.866	ppbv	
52) Tetrachloroethene	8.231	164	12767	0.989	ppbv	97
53) Toluene	6.943	91	32491	0.919	ppbv	97
54) 1,2-Dibromoethane	7.658	107	19874m	0.982	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.930	131	19084	0.999	ppbv	93
57) Chlorobenzene	8.927	112	31814	0.997	ppbv	96
58) Ethyl Benzene	9.361	91	41399	0.882	ppbv	97
59) m/p-Xylene	9.558	91	75037m	1.875	ppbv	
60) o-Xylene	9.969	91	36525	0.922	ppbv	100
61) Styrene	9.875	104	11998m	0.790	ppbv	
62) Isopropylbenzene	10.545	105	57318	0.944	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	26731	1.013	ppbv	99
64) n-propylbenzene	10.995	120	13960	0.923	ppbv	92
65) tert-Butylbenzene	11.536	119	51897	0.950	ppbv	97
66) Benzyl Chloride	11.620	91	5931	0.868	ppbv	97
67) sec-Butylbenzene	11.772	105	75362	0.978	ppbv	99
69) p-Isopropyltoluene	11.931	119	59939	0.941	ppbv	98
70) n-Butylbenzene	12.287	91	55515	0.923	ppbv	95
71) 2-Chlorotoluene	10.908	91	40222	0.920	ppbv	100
72) 4-Ethyltoluene	11.131	105	45141	0.921	ppbv #	97
73) 1,3,5-Trimethylbenzene	11.209	105	39627	0.935	ppbv	96
74) 1,2,4-Trimethylbenzene	11.542	105	51744	1.012	ppbv	91
75) 1,3-Dichlorobenzene	11.610	146	31973	1.013	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	29654	0.968	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	31444	1.012	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	26642	1.038	ppbv	99
79) Naphthalene	13.517	128	35563	0.929	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	10324	0.523	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	20710	0.900	ppbv	98

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

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug

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