

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091025\
 Data File : VL042921.D
 Acq On : 10 Sep 2025 09:36
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Sep 11 01:09:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/11/2025
 Supervised By : Mahesh Dadoda 09/11/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	144491	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	369791	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.878	117	305623	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	240462	10.491	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	219399	10.361	ppbv	98
3) Chlorodifluoromethane	1.473	51	246673	10.538	ppbv	97
4) Chloromethane	1.531	50	85744	10.034	ppbv	99
5) Vinyl Chloride	1.580	62	80418	9.555	ppbv	99
6) Bromomethane	1.667	94	32182	9.563	ppbv	94
7) Chloroethane	1.703	64	30351	9.235	ppbv	91
8) Dichlorotetrafluoroethane	1.554	85	179453	10.356	ppbv	95
9) Propene	1.479	41	59661	5.902	ppbv	89
10) Heptane	4.978	43	260221	9.611	ppbv	98
11) Trichlorofluoromethane	1.878	101	206293	9.874	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	167643	10.067	ppbv	95
13) Ethanol	1.719	45	6825	7.384	ppbv	92
14) Bromoethene	1.780	108	59848	9.928	ppbv	99
15) Acetone	1.835	43	165034	8.634	ppbv	99
16) 1,3-Butadiene	1.609	39	78297	9.036	ppbv	98
17) tert-Butyl alcohol	2.039	59	183075	8.077	ppbv	100
18) 1,1-Dichloroethene	2.033	96	74153	10.129	ppbv	93
19) Isopropyl Alcohol	1.884	45	98538	8.632	ppbv	92
20) Methylene Chloride	2.059	84	63489	7.929	ppbv	85
21) Allyl Chloride	2.094	41	129434	9.586	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	85301	10.071	ppbv	99
23) Vinyl Acetate	2.460	43	261874	9.965	ppbv	99
24) 1,1-Dichloroethane	2.408	63	170273	10.066	ppbv	99
25) Ethyl Acetate	2.832	43	468275	10.123	ppbv	98
26) Hexane	2.823	57	208072	9.745	ppbv	93
27) Carbon Disulfide	2.149	76	212382	10.221	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	92228	8.471	ppbv	93
29) Chloroform	2.845	83	303826	9.966	ppbv	99
30) Cyclohexane	3.855	84	168007	8.974	ppbv	95
31) cis-1,2-Dichloroethene	2.719	61	196556	9.216	ppbv	97
32) 1,1,1-Trichloroethane	3.366	97	288888	8.966	ppbv	97
34) 2-Butanone	2.557	43	294642	11.800	ppbv	99
35) Carbon Tetrachloride	3.761	117	286634	11.243	ppbv	99
36) Benzene	3.654	78	404205	11.415	ppbv	98
37) 1,2-Dichloroethane	3.217	62	225218	12.174	ppbv	99
38) Trichloroethene	4.545	130	163714	10.123	ppbv	94
39) 1,2-Dichloropropane	4.311	63	154962	11.982	ppbv	98
40) 1,4-Dioxane	4.577	88	58073	9.443	ppbv #	86
41) Tetrahydrofuran	3.052	42	160811	11.551	ppbv	97
42) Bromodichloromethane	4.486	83	328462	11.915	ppbv	98
43) Methyl Methacrylate	4.875	69	155022	10.627	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	706023	11.747	ppbv	98
45) t-1,3-Dichloropropene	6.415	75	162626m	9.879	ppbv	

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	216444	10.552	ppbv	99
47) 1,1,2-Trichloroethane	6.577	97	156830	11.446	ppbv	96
48) Dibromochloromethane	7.383	129	251601	11.347	ppbv	98
49) Bromoform	9.484	173	200058	10.940	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	395608	11.721	ppbv	96
51) 2-Hexanone	7.432	43	311297	11.721	ppbv #	95
52) Tetrachloroethene	8.225	164	119161	9.302	ppbv	95
53) Toluene	6.930	91	439287	10.435	ppbv	99
54) 1,2-Dibromoethane	7.648	107	219380	10.955	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.924	131	186640	11.809	ppbv	98
57) Chlorobenzene	8.920	112	340369	11.713	ppbv #	97
58) Ethyl Benzene	9.354	91	606281	11.241	ppbv	100
59) m/p-Xylene	9.548	91	999819m	23.651	ppbv	
60) o-Xylene	9.963	91	502791	11.823	ppbv	100
61) Styrene	9.869	104	206921	10.386	ppbv	99
62) Isopropylbenzene	10.539	105	710629	11.435	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	299792	12.819	ppbv	99
64) n-propylbenzene	10.989	120	183438	11.569	ppbv	93
65) tert-Butylbenzene	11.529	119	616689	11.256	ppbv	97
66) Benzyl Chloride	11.613	91	58646	8.432	ppbv	98
67) sec-Butylbenzene	11.765	105	896657	11.660	ppbv	98
69) p-Isopropyltoluene	11.924	119	727408	11.018	ppbv	99
70) n-Butylbenzene	12.280	91	766483	11.706	ppbv	99
71) 2-Chlorotoluene	10.901	91	542770	11.248	ppbv	96
72) 4-Ethyltoluene	11.125	105	593493	11.513	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	489404	11.164	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	561027	11.659	ppbv	97
75) 1,3-Dichlorobenzene	11.607	146	316381	11.566	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	317342	11.471	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	305223	11.395	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	180011	8.200	ppbv	99
79) Naphthalene	13.513	128	460877	10.565	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	127495	7.821	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	221503	10.102	ppbv	99

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

