

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042533.D
 Acq On : 12 May 2025 14:28
 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 05/14/2025
 Supervised By : Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:51:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	108558	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	309586	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	279828	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 246798 10.136 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	254959	14.463	ppbv	99
3) Chlorodifluoromethane	1.473	51	266796	14.850	ppbv	98
4) Chloromethane	1.531	50	101130	14.056	ppbv	99
5) Vinyl Chloride	1.576	62	98136	13.331	ppbv	97
6) Bromomethane	1.664	94	50426	14.424	ppbv	98
7) Chloroethane	1.703	64	38860	13.411	ppbv	99
8) Dichlorotetrafluoroethane	1.550	85	214140	14.118	ppbv	98
9) Propene	1.479	41	98085	25.137	ppbv #	1
10) Heptane	4.968	43	272741	18.334	ppbv	98
11) Trichlorofluoromethane	1.874	101	245994	14.507	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	193238	14.189	ppbv	99
13) Ethanol	1.719	45	11869	11.144	ppbv	99
14) Bromoethene	1.780	108	75429	15.192	ppbv	96
15) Acetone	1.832	43	213564	12.311	ppbv	99
16) 1,3-Butadiene	1.605	39	112792	14.460	ppbv	99
17) tert-Butyl alcohol	2.036	59	230498	14.380	ppbv	99
18) 1,1-Dichloroethene	2.029	96	86943	14.567	ppbv	98
19) Isopropyl Alcohol	1.884	45	132417	14.052	ppbv #	1
20) Methylene Chloride	2.059	84	74621	12.354	ppbv	98
21) Allyl Chloride	2.091	41	172596	15.028	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	97705	13.994	ppbv	98
23) Vinyl Acetate	2.460	43	285911	15.744	ppbv	97
24) 1,1-Dichloroethane	2.405	63	196043	14.512	ppbv	98
25) Ethyl Acetate	2.832	43	503336	16.525	ppbv	100
26) Hexane	2.819	57	221600	17.721	ppbv	96
27) Carbon Disulfide	2.146	76	244368	15.138	ppbv	99
28) Methyl tert-Butyl Ether	2.437	73	104072	14.980	ppbv	99
29) Chloroform	2.845	83	373949	14.419	ppbv	97
30) Cyclohexane	3.852	84	188093	18.321	ppbv	99
31) cis-1,2-Dichloroethene	2.716	61	231689	16.408	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	393153	15.027	ppbv	99
34) 2-Butanone	2.554	43	326787	16.014	ppbv	99
35) Carbon Tetrachloride	3.758	117	419052	15.056	ppbv	99
36) Benzene	3.651	78	458244	16.702	ppbv	96
37) 1,2-Dichloroethane	3.214	62	296168	15.133	ppbv	99
38) Trichloroethene	4.544	130	190538	16.255	ppbv	99
39) 1,2-Dichloropropane	4.308	63	162049	15.867	ppbv	96
40) 1,4-Dioxane	4.580	88	69978m	17.187	ppbv	
41) Tetrahydrofuran	3.049	42	167734	19.057	ppbv	98
42) Bromodichloromethane	4.483	83	410197	15.734	ppbv	95
43) Methyl Methacrylate	4.874	69	175429	19.145	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	753360	17.485	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	225163	19.247	ppbv	93

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	267742	18.975	ppbv	96
47) 1,1,2-Trichloroethane	6.574	97	183088	15.225	ppbv	96
48) Dibromochloromethane	7.383	129	334374	16.641	ppbv	98
49) Bromoform	9.480	173	279015	16.922	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	445638	18.621	ppbv	100
51) 2-Hexanone	7.431	43	367397	20.654	ppbv #	97
52) Tetrachloroethene	8.221	164	165300	15.639	ppbv	93
53) Toluene	6.927	91	522877	19.420	ppbv	100
54) 1,2-Dibromoethane	7.648	107	290801	16.547	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.920	131	253110	14.589	ppbv	98
57) Chlorobenzene	8.917	112	423059	15.057	ppbv	99
58) Ethyl Benzene	9.351	91	757160	19.852	ppbv	95
59) m/p-Xylene	9.548	91	1251252m	36.878	ppbv	
60) o-Xylene	9.962	91	618234	18.698	ppbv	99
61) Styrene	9.869	104	269609	22.137	ppbv	97
62) Isopropylbenzene	10.535	105	902388	18.112	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	380582	14.351	ppbv	99
64) n-propylbenzene	10.985	120	230244	18.238	ppbv	99
65) tert-Butylbenzene	11.529	119	827491	18.087	ppbv	100
66) Benzyl Chloride	11.613	91	106741	17.633	ppbv #	98
67) sec-Butylbenzene	11.765	105	1120950	17.089	ppbv	99
69) p-Isopropyltoluene	11.924	119	983988	18.247	ppbv	99
70) n-Butylbenzene	12.280	91	974868	18.295	ppbv	100
71) 2-Chlorotoluene	10.898	91	703053	18.636	ppbv	99
72) 4-Ethyltoluene	11.124	105	777799	18.954	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	654009	18.296	ppbv	97
74) 1,2,4-Trimethylbenzene	11.535	105	725454	16.496	ppbv	98
75) 1,3-Dichlorobenzene	11.607	146	432126	15.690	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	429425	16.387	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	412453	14.497	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	339749	13.928	ppbv	100
79) Naphthalene	13.510	128	708419	23.333	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	506723	28.683	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	368964	19.904	ppbv	100

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

