

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043033.D
 Acq On : 02 Oct 2025 10:57
 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 10/03/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:02:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.771	49	179740	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.936	114	541054	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.859	117	447624	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.357 95 327830 10.167 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	61057	2.016	ppbv	97
3) Chlorodifluoromethane	1.470	51	60544	2.066	ppbv	97
4) Chloromethane	1.528	50	22071	1.995	ppbv	98
5) Vinyl Chloride	1.573	62	20286	1.932	ppbv	98
6) Bromomethane	1.661	94	9696	2.055	ppbv	97
7) Chloroethane	1.696	64	9205	2.101	ppbv	96
8) Dichlorotetrafluoroethane	1.547	85	51709	2.083	ppbv	98
9) Propene	1.479	41	25044	2.119	ppbv	93
10) Heptane	4.952	43	59306	2.038	ppbv	98
11) Trichlorofluoromethane	1.871	101	63315	2.034	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.130	101	50042	2.041	ppbv	100
13) Ethanol	1.716	45	1472	2.168	ppbv #	58
14) Bromoethene	1.774	108	18006	2.048	ppbv	98
15) Acetone	1.829	43	52918	2.103	ppbv	95
16) 1,3-Butadiene	1.602	39	21968	2.117	ppbv	96
17) tert-Butyl alcohol	2.030	59	51640	1.940	ppbv	98
18) 1,1-Dichloroethene	2.023	96	21932	2.040	ppbv	98
19) Isopropyl Alcohol	1.877	45	23979	1.989	ppbv #	80
20) Methylene Chloride	2.052	84	20728	1.887	ppbv	95
21) Allyl Chloride	2.085	41	33088	2.052	ppbv	98
22) trans-1,2-Dichloroethene	2.331	96	24306	1.992	ppbv	95
23) Vinyl Acetate	2.450	43	11081	2.074	ppbv #	92
24) 1,1-Dichloroethane	2.395	63	46548	2.012	ppbv	99
25) Ethyl Acetate	2.819	43	130995	2.075	ppbv	99
26) Hexane	2.813	57	50777	2.091	ppbv	96
27) Carbon Disulfide	2.140	76	56650	1.976	ppbv #	70
28) Methyl tert-Butyl Ether	2.428	73	31189	2.052	ppbv	99
29) Chloroform	2.832	83	83628	2.020	ppbv	99
30) Cyclohexane	3.836	84	41150	2.062	ppbv	96
31) cis-1,2-Dichloroethene	2.706	61	51609	2.067	ppbv	95
32) 1,1,1-Trichloroethane	3.350	97	81078	2.015	ppbv	99
34) 2-Butanone	2.544	43	75222	2.049	ppbv	100
35) Carbon Tetrachloride	3.739	117	83331	1.872	ppbv	98
36) Benzene	3.635	78	105052	2.032	ppbv	98
37) 1,2-Dichloroethane	3.201	62	61665	2.014	ppbv	100
38) Trichloroethene	4.519	130	43500	2.020	ppbv	98
39) 1,2-Dichloropropane	4.289	63	38286	1.998	ppbv	97
40) 1,4-Dioxane	4.564	88	16471m	2.002	ppbv	
41) Tetrahydrofuran	3.043	42	39501	2.082	ppbv	98
42) Bromodichloromethane	4.464	83	85622	1.981	ppbv	94
43) Methyl Methacrylate	4.852	69	33288	1.940	ppbv	96
44) 2,2,4-Trimethylpentane	4.609	57	171998	2.074	ppbv	99
45) t-1,3-Dichloropropene	6.383	75	30227	1.944	ppbv	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.567	75	42818	1.938	ppbv	90
47) 1,1,2-Trichloroethane	6.548	97	42719	2.004	ppbv	93
48) Dibromochloromethane	7.357	129	69735	2.005	ppbv	100
49) Bromoform	9.461	173	58655	2.019	ppbv	99
50) 4-Methyl-2-Pentanone	5.719	43	88751	1.982	ppbv	100
51) 2-Hexanone	7.412	43	62520	1.969	ppbv #	96
52) Tetrachloroethene	8.202	164	38059	1.976	ppbv	97
53) Toluene	6.907	91	104582	2.004	ppbv	100
54) 1,2-Dibromoethane	7.629	107	50973	2.018	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.901	131	54924	2.013	ppbv	95
57) Chlorobenzene	8.901	112	97190	2.054	ppbv	99
58) Ethyl Benzene	9.335	91	143037	2.063	ppbv	97
59) m/p-Xylene	9.529	91	250936m	4.289	ppbv	
60) o-Xylene	9.946	91	124006	2.128	ppbv	98
61) Styrene	9.849	104	46782	1.917	ppbv	98
62) Isopropylbenzene	10.523	105	186358	2.084	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.943	83	84916	2.022	ppbv	99
64) n-propylbenzene	10.972	120	48346	2.113	ppbv	90
65) tert-Butylbenzene	11.516	119	172968	2.173	ppbv	99
66) Benzyl Chloride	11.597	91	5886	1.908	ppbv	99
67) sec-Butylbenzene	11.752	105	245463	2.210	ppbv	99
69) p-Isopropyltoluene	11.911	119	200038	2.214	ppbv	99
70) n-Butylbenzene	12.267	91	192286	2.210	ppbv	98
71) 2-Chlorotoluene	10.885	91	136276	2.105	ppbv	99
72) 4-Ethyltoluene	11.108	105	147421	2.126	ppbv	99
73) 1,3,5-Trimethylbenzene	11.186	105	127419	2.124	ppbv	94
74) 1,2,4-Trimethylbenzene	11.519	105	150033	2.216	ppbv	98
75) 1,3-Dichlorobenzene	11.591	146	92272	2.095	ppbv	99
76) 1,4-Dichlorobenzene	11.655	146	88602	2.110	ppbv	99
77) 1,2-Dichlorobenzene	11.930	146	92779	2.115	ppbv	99
78) Hexachloro-1,3-Butadiene	13.866	225	65408	2.140	ppbv	99
79) Naphthalene	13.500	128	99793	2.006	ppbv	97
80) Naphthalene,2-methyl-	14.445	142	24913	1.530	ppbv	92
81) 1,2,4-Trichlorobenzene	13.426	180	56312	2.158	ppbv	99

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

