

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL093025\
 Data File : VL043019.D
 Acq On : 30 Sep 2025 09:38
 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 10/01/2025
 Supervised By :Mahesh Dadoda 10/03/2025

Quant Time: Sep 30 23:56:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL093025AIR.M

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

QLast Update : Tue Sep 30 23:54:02 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	152050	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	480179	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	428646	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 320421 9.868 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	53092	2.018	ppbv	99
3) Chlorodifluoromethane	1.479	51	56363	2.012	ppbv	99
4) Chloromethane	1.534	50	19331	1.935	ppbv	98
5) Vinyl Chloride	1.583	62	17208	1.776	ppbv	97
6) Bromomethane	1.670	94	7006	2.001	ppbv	98
7) Chloroethane	1.706	64	7615	1.969	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	42372	1.975	ppbv	100
9) Propene	1.486	41	22027	2.021	ppbv	100
10) Heptane	4.985	43	57002	2.028	ppbv	100
11) Trichlorofluoromethane	1.881	101	53176	2.005	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.143	101	41847	1.991	ppbv	97
13) Ethanol	1.722	45	2655	2.294	ppbv	80
14) Bromoethene	1.784	108	15262	1.949	ppbv	93
15) Acetone	1.839	43	45297	2.089	ppbv	97
16) 1,3-Butadiene	1.612	39	17879	1.948	ppbv	95
17) tert-Butyl alcohol	2.042	59	45746	1.888	ppbv	95
18) 1,1-Dichloroethene	2.036	96	18303	1.937	ppbv	93
19) Isopropyl Alcohol	1.887	45	24252	1.902	ppbv #	37
20) Methylene Chloride	2.065	84	22286	2.092	ppbv	94
21) Allyl Chloride	2.097	41	29148	1.987	ppbv	99
22) trans-1,2-Dichloroethene	2.343	96	21421	2.002	ppbv	99
23) Vinyl Acetate	2.463	43	65553	2.189	ppbv	99
24) 1,1-Dichloroethane	2.411	63	41010	2.037	ppbv	99
25) Ethyl Acetate	2.839	43	110966	2.006	ppbv	100
26) Hexane	2.829	57	55431	1.927	ppbv	95
27) Carbon Disulfide	2.152	76	50765	2.007	ppbv #	88
28) Methyl tert-Butyl Ether	2.444	73	31603	2.244	ppbv	96
29) Chloroform	2.852	83	72322	2.021	ppbv	99
30) Cyclohexane	3.861	84	39359	1.987	ppbv	96
31) cis-1,2-Dichloroethene	2.722	61	47131	2.018	ppbv	99
32) 1,1,1-Trichloroethane	3.373	97	71075	1.960	ppbv	99
34) 2-Butanone	2.560	43	68751	2.033	ppbv	98
35) Carbon Tetrachloride	3.768	117	72749	1.867	ppbv	94
36) Benzene	3.658	78	96787	2.011	ppbv	100
37) 1,2-Dichloroethane	3.221	62	55324	2.012	ppbv	100
38) Trichloroethene	4.554	130	48440	1.964	ppbv	91
39) 1,2-Dichloropropane	4.315	63	34783	1.968	ppbv	97
40) 1,4-Dioxane	4.596	88	14944m	1.994	ppbv	
41) Tetrahydrofuran	3.059	42	35867	1.992	ppbv	97
42) Bromodichloromethane	4.493	83	75477	1.976	ppbv	98
43) Methyl Methacrylate	4.884	69	32929	1.947	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	161104	2.035	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	38267m	1.990	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	49451	1.972	ppbv	95
47) 1,1,2-Trichloroethane	6.587	97	38043	2.029	ppbv	95
48) Dibromochloromethane	7.389	129	63863	1.976	ppbv	99
49) Bromoform	9.487	173	54296	1.980	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	84228	1.952	ppbv	99
51) 2-Hexanone	7.444	43	61792	1.944	ppbv #	100
52) Tetrachloroethene	8.231	164	36361	1.895	ppbv	90
53) Toluene	6.936	91	106255	1.980	ppbv	99
54) 1,2-Dibromoethane	7.655	107	52700	2.015	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.930	131	48760	2.007	ppbv	98
57) Chlorobenzene	8.924	112	88915	2.012	ppbv	98
58) Ethyl Benzene	9.357	91	146404	2.015	ppbv	100
59) m/p-Xylene	9.555	91	240698m	4.117	ppbv	
60) o-Xylene	9.966	91	120173	2.068	ppbv	100
61) Styrene	9.875	104	46897	1.907	ppbv	98
62) Isopropylbenzene	10.542	105	175973	2.034	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	62581	2.007	ppbv	98
64) n-propylbenzene	10.992	120	46617	2.068	ppbv	98
65) tert-Butylbenzene	11.532	119	164700	2.102	ppbv	100
66) Benzyl Chloride	11.616	91	11629	1.861	ppbv	98
67) sec-Butylbenzene	11.769	105	229465	2.100	ppbv	98
69) p-Isopropyltoluene	11.927	119	190819	2.097	ppbv	100
70) n-Butylbenzene	12.283	91	187543	2.134	ppbv	98
71) 2-Chlorotoluene	10.904	91	131720	2.041	ppbv	99
72) 4-Ethyltoluene	11.128	105	146794	2.054	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	123402	2.048	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	143706	2.112	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	89223	2.053	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	87198	2.053	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	88111	2.076	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	71270	2.100	ppbv	98
79) Naphthalene	13.513	128	130088	2.424	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	28131	2.026	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	71749	2.204	ppbv	98

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

