

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041858.D
 Acq On : 09 Jan 2025 10:33
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 10:56:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	152105	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	457513	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	417323	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 335281 9.380 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.800%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.502	85	12871	0.516	ppbv	100
3) Chlorodifluoromethane	1.479	51	13501	0.566	ppbv #	81
4) Chloromethane	1.538	50	5589	0.545	ppbv	96
5) Vinyl Chloride	1.586	62	5115	0.494	ppbv	91
6) Bromomethane	1.674	94	2386	0.538	ppbv	82
7) Chloroethane	1.709	64	2229	0.559	ppbv #	88
8) Dichlorotetrafluoroethane	1.560	85	11537	0.536	ppbv	90
9) Propene	1.531	41	1021	0.123	ppbv	95
10) Heptane	5.004	43	16018	0.781	ppbv #	71
11) Trichlorofluoromethane	1.884	101	12499	0.493	ppbv	96
12) 1,1,2-Trichlorotrifluoro...	2.149	101	10109	0.535	ppbv	89
13) Ethanol	1.725	45	742m	0.786	ppbv	
14) Bromoethene	1.787	108	3722	0.602	ppbv #	74
15) Acetone	1.845	43	14343	0.512	ppbv #	63
16) 1,3-Butadiene	1.615	39	6178	0.563	ppbv #	81
17) tert-Butyl alcohol	2.052	59	14823	0.611	ppbv #	80
18) 1,1-Dichloroethene	2.043	96	4747	0.600	ppbv	78
19) Isopropyl Alcohol	1.894	45	7928	0.603	ppbv	99
20) Methylene Chloride	2.072	84	5533	0.691	ppbv #	84
21) Allyl Chloride	2.104	41	10381	0.720	ppbv	95
22) trans-1,2-Dichloroethene	2.350	96	5633	0.637	ppbv	81
23) Vinyl Acetate	2.473	43	8260	0.920	ppbv #	85
24) 1,1-Dichloroethane	2.421	63	10070	0.520	ppbv	98
25) Ethyl Acetate	2.855	43	35229	0.750	ppbv #	95
26) Hexane	2.842	57	14114	0.866	ppbv	91
27) Carbon Disulfide	2.159	76	12231	0.791	ppbv #	1
28) Methyl tert-Butyl Ether	2.454	73	8168	0.665	ppbv #	20
29) Chloroform	2.861	83	18789	0.621	ppbv	92
30) Cyclohexane	3.874	84	11116m	0.899	ppbv	
31) cis-1,2-Dichloroethene	2.735	61	12927m	0.771	ppbv	
32) 1,1,1-Trichloroethane	3.386	97	18209	0.664	ppbv	96
34) 2-Butanone	2.573	43	19843	0.551	ppbv #	89
35) Carbon Tetrachloride	3.787	117	17679	0.511	ppbv	90
36) Benzene	3.677	78	27682	0.633	ppbv #	95
37) 1,2-Dichloroethane	3.234	62	13695	0.477	ppbv #	89
38) Trichloroethene	4.574	130	10787	0.630	ppbv	95
39) 1,2-Dichloropropane	4.347	63	9949m	0.588	ppbv	
40) 1,4-Dioxane	4.625	88	5432m	0.829	ppbv	
41) Tetrahydrofuran	3.081	42	11487	0.676	ppbv #	90
42) Bromodichloromethane	4.515	83	18278	0.542	ppbv	95
43) Methyl Methacrylate	4.913	69	11542m	0.841	ppbv	
44) 2,2,4-Trimethylpentane	4.664	57	47096	0.654	ppbv	92
45) t-1,3-Dichloropropene	6.451	75	11526m	0.860	ppbv	

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

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	14588m	0.828	ppbv	
47) 1,1,2-Trichloroethane	6.613	97	10118	0.566	ppbv	97
48) Dibromochloromethane	7.409	129	14439	0.634	ppbv	89
49) Bromoform	9.503	173	12600	0.691	ppbv	99
50) 4-Methyl-2-Pentanone	5.800	43	26263	0.631	ppbv #	85
51) 2-Hexanone	7.474	43	22722	0.720	ppbv #	82
52) Tetrachloroethene	8.247	164	9249	0.714	ppbv	92
53) Toluene	6.962	91	32477	0.834	ppbv	99
54) 1,2-Dibromoethane	7.684	107	13908m	0.635	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.940	131	13195	0.555	ppbv	94
57) Chlorobenzene	8.943	112	24929	0.572	ppbv	98
58) Ethyl Benzene	9.370	91	44339	0.780	ppbv	94
59) m/p-Xylene	9.571	91	69706m	1.388	ppbv	
60) o-Xylene	9.982	91	35757	0.732	ppbv	98
61) Styrene	9.888	104	17788	0.939	ppbv	98
62) Isopropylbenzene	10.558	105	53304	0.695	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.982	83	21056	0.492	ppbv	97
64) n-propylbenzene	11.002	120	14050	0.714	ppbv	92
65) tert-Butylbenzene	11.549	119	49710	0.719	ppbv	94
66) Benzyl Chloride	11.629	91	5273	0.913	ppbv #	86
67) sec-Butylbenzene	11.782	105	67281	0.667	ppbv	95
69) p-Isopropyltoluene	11.940	119	57482	0.726	ppbv	98
70) n-Butylbenzene	12.296	91	58950	0.741	ppbv	99
71) 2-Chlorotoluene	10.917	91	39716	0.713	ppbv	98
72) 4-Ethyltoluene	11.141	105	42525	0.720	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	36438	0.704	ppbv	98
74) 1,2,4-Trimethylbenzene	11.552	105	40919	0.683	ppbv #	89
75) 1,3-Dichlorobenzene	11.623	146	24151	0.602	ppbv	97
76) 1,4-Dichlorobenzene	11.688	146	22914	0.594	ppbv	98
77) 1,2-Dichlorobenzene	11.963	146	23472	0.562	ppbv	97
78) Hexachloro-1,3-Butadiene	13.898	225	20517	0.692	ppbv	98
79) Naphthalene	13.529	128	42804	0.970	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	26324	1.611	ppbv	97
81) 1,2,4-Trichlorobenzene	13.455	180	21256	0.869	ppbv	99

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

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