

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080625\
 Data File : VN087481.D
 Acq On : 06 Aug 2025 16:08
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/07/2025
 Supervised By : Mahesh Dadoda 08/07/2025

Quant Time: Aug 07 03:39:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	59810	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	333172	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	305874	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	170816	30.964	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.200%			
60) 4-Bromofluorobenzene	12.829	95	156138	29.662	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.867%			
63) Toluene-d8	10.547	98	419192	29.785	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.267%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	76549	19.603	ug/l	98
3) Chloromethane	2.383	50	75927	18.951	ug/l	97
4) Vinyl Chloride	2.542	62	81595	19.202	ug/l	96
5) Bromomethane	2.977	94	42720	18.573	ug/l #	78
6) Chloroethane	3.142	64	54189	19.776	ug/l	99
7) Trichlorofluoromethane	3.506	101	118141	19.318	ug/l	96
8) Diethyl Ether	3.953	74	51399	20.174	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.359	101	61303	19.657	ug/l	56
10) 1,1-Dichloroethene	4.324	96	64088	19.564	ug/l	89
11) Methyl Iodide	4.583	142	37606	14.580	ug/l	97
12) Methyl Acetate	5.024	43	123313	20.399	ug/l	100
13) Acrolein	4.183	56	107724	116.676	ug/l	99
14) Acrylonitrile	5.706	53	255571	96.821	ug/l #	81
15) Acetone	4.430	58	73465	97.407	ug/l	99
16) Carbon Disulfide	4.700	76	181934	17.905	ug/l	99
17) Allyl chloride	5.012	41	126465	18.941	ug/l	98
18) Methylene Chloride	5.265	84	78340	18.577	ug/l	99
19) trans-1,2-Dichloroethene	5.771	96	72003	18.484	ug/l	96
20) Diisopropyl ether	6.659	45	290173	19.078	ug/l	99
21) 1,1-Dichloroethane	6.553	63	150759	19.175	ug/l	97
22) cis-1,2-Dichloroethene	7.465	96	91892	19.172	ug/l	100
23) tert-Butyl Alcohol	5.524	59	107042	95.432	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	278206	18.638	ug/l	98
25) Chloroform	7.947	83	160848	19.599	ug/l	96
26) Cyclohexane	8.241	56	124450	19.770	ug/l #	96
29) 1,1-Dichloropropene	8.353	75	101980	18.767	ug/l	98
30) 2-Butanone	7.471	43	380191	94.916	ug/l	99
31) 2,2-Dichloropropane	7.465	77	132355	18.885	ug/l #	78
32) 1,1,1-Trichloroethane	8.147	97	130763	18.868	ug/l	97
33) Carbon Tetrachloride	8.341	117	106767	18.544	ug/l	100
34) Benzene	8.588	78	324182	18.899	ug/l	99
35) Methacrylonitrile	7.759	41	79398	18.369	ug/l	98
36) 1,2-Dichloroethane	8.653	62	132738	19.146	ug/l	99
37) Trichloroethene	9.335	130	71620	18.954	ug/l	85
38) Methylcyclohexane	9.582	83	110169	17.476	ug/l	95
39) 1,2-Dichloropropane	9.600	63	83077	18.889	ug/l	98
40) Dibromomethane	9.688	93	61242	18.559	ug/l	96
41) Bromodichloromethane	9.871	83	128257	18.705	ug/l	94
42) Vinyl Acetate	6.588	43	1373736	104.142	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	161020	20.808	ug/l #	79
44) Isopropyl Acetate	8.677	43	247457	18.865	ug/l	100
45) 1,4-Dioxane	9.682	88	31836	380.717	ug/l #	1
46) Methyl methacrylate	9.665	41	98809	15.958	ug/l	86
47) n-amyl Acetate	12.517	43	138647m	19.134	ug/l	
48) t-1,3-Dichloropropene	10.818	75	134609	18.044	ug/l	98
49) cis-1,3-Dichloropropene	10.294	75	141083	18.792	ug/l	99
50) 1,1,2-Trichloroethane	10.994	97	78883	18.920	ug/l	97
51) Ethyl methacrylate	10.859	69	138886	18.915	ug/l	91
52) 1,3-Dichloropropane	11.147	76	142334	18.949	ug/l	98
53) Dibromochloromethane	11.341	129	87625	18.199	ug/l	100
54) 1,2-Dibromoethane	11.447	107	82340	18.604	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	353765	91.521	ug/l	99
56) Bromoform	12.559	173	56549	17.756	ug/l #	99
58) 4-Methyl-2-Pentanone	10.429	43	754622	95.904	ug/l	100
59) 2-Hexanone	11.176	43	490391	91.726	ug/l	99
61) Tetrachloroethene	11.082	164	55402	18.592	ug/l	98
62) Toluene	10.612	91	346329	18.345	ug/l	100
64) Chlorobenzene	11.870	112	213235	18.382	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.941	131	72104	17.679	ug/l	98
66) Ethyl Benzene	11.941	91	390637	18.565	ug/l	97
67) m/p-Xylenes	12.053	106	282239	36.542	ug/l	100
68) o-Xylene	12.376	106	138391	18.213	ug/l	99
69) Styrene	12.394	104	233487	17.996	ug/l	98
70) Isopropylbenzene	12.676	105	351643	18.215	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	123674	18.698	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	127296m	20.659	ug/l	
73) Bromobenzene	12.959	156	79732	17.816	ug/l	99
74) n-propylbenzene	13.012	91	445638	18.484	ug/l	99
75) 2-Chlorotoluene	13.106	91	269727	18.188	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	296489	17.938	ug/l	97
77) t-1,4-Dichloro-2-butene	12.723	75	40022	17.158	ug/l	86
78) 4-Chlorotoluene	13.200	91	276402	18.391	ug/l	99
79) tert-butylbenzene	13.417	119	253745	18.208	ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	305215	18.480	ug/l	100
81) sec-Butylbenzene	13.594	105	373096	18.390	ug/l	100
82) p-Isopropyltoluene	13.706	119	304476	18.075	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	157070	18.432	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	161417	18.683	ug/l	99
85) n-Butylbenzene	14.035	91	303135	18.393	ug/l	96
86) Hexachloroethane	14.311	117	58625	17.822	ug/l	99
87) 1,2-Dichlorobenzene	14.088	146	152381	18.733	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	29308	17.491	ug/l	95
89) 1,2,4-Trichlorobenzene	15.811	180	86683	17.831	ug/l	99
90) Hexachlorobutadiene	15.470	225	30948	16.371	ug/l	97
91) Naphthalene	15.617	128	328334	17.713	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	86683	17.831	ug/l	99

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

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