

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086243.D
 Acq On : 11 Apr 2025 11:28
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:18:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	14047	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	84939	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	74906	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	41220	30.085	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.300%			
60) 4-Bromofluorobenzene	12.847	95	43610	29.242	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.467%			
63) Toluene-d8	10.565	98	126824	29.990	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.967%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	58744	52.194	ug/l	96
3) Chloromethane	2.359	50	78367	50.379	ug/l	100
4) Vinyl Chloride	2.518	62	76593	51.694	ug/l	99
5) Bromomethane	2.965	94	36808	49.803	ug/l	98
6) Chloroethane	3.124	64	47628	50.904	ug/l	93
7) Trichlorofluoromethane	3.501	101	80789	50.264	ug/l	98
8) Diethyl Ether	3.959	74	37038	49.969	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	49606	50.050	ug/l	99
10) 1,1-Dichloroethene	4.342	96	53777	50.276	ug/l	96
11) Methyl Iodide	4.595	142	62574	50.898	ug/l	98
12) Methyl Acetate	5.024	43	73437	48.619	ug/l	96
13) Acrolein	4.177	56	32156	187.286	ug/l	100
14) Acrylonitrile	5.718	53	158488	248.545	ug/l	99
15) Acetone	4.430	58	41109	254.046	ug/l	90
16) Carbon Disulfide	4.712	76	158178	51.572	ug/l	96
17) Allyl chloride	5.024	41	94454	50.665	ug/l	98
18) Methylene Chloride	5.271	84	62060	50.889	ug/l	95
19) trans-1,2-Dichloroethene	5.783	96	55815	57.849	ug/l	98
20) Diisopropyl ether	6.665	45	202367	50.486	ug/l	97
21) 1,1-Dichloroethane	6.565	63	109754	51.327	ug/l	99
22) cis-1,2-Dichloroethene	7.489	96	67681	50.428	ug/l	99
23) tert-Butyl Alcohol	5.506	59	68079	257.664	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	191760	49.761	ug/l	98
25) Chloroform	7.965	83	102647	50.340	ug/l	98
26) Cyclohexane	8.253	56	102734	51.353	ug/l #	99
29) 1,1-Dichloropropene	8.365	75	75270	49.468	ug/l	99
30) 2-Butanone	7.477	43	214604	254.531	ug/l	100
31) 2,2-Dichloropropane	7.489	77	94426	50.415	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	86106	49.195	ug/l	99
33) Carbon Tetrachloride	8.359	117	69609	49.764	ug/l	97
34) Benzene	8.606	78	246552	50.932	ug/l	97
35) Methacrylonitrile	7.777	41	48042	50.544	ug/l	98
36) 1,2-Dichloroethane	8.671	62	76358	50.407	ug/l	99
37) Trichloroethene	9.347	130	57181	48.957	ug/l	92
38) Methylcyclohexane	9.594	83	96635	51.784	ug/l	99
39) 1,2-Dichloropropane	9.618	63	61419	50.990	ug/l	98
40) Dibromomethane	9.706	93	38700	49.745	ug/l	99
41) Bromodichloromethane	9.883	83	83523	49.974	ug/l	99
42) Vinyl Acetate	6.600	43	746448	260.085	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	81568	47.963	ug/l	96
44) Isopropyl Acetate	8.683	43	155025	49.138	ug/l	99
45) 1,4-Dioxane	9.694	88	25412	1012.940	ug/l #	94
46) Methyl methacrylate	9.677	41	68461	49.249	ug/l	98
47) n-amyl Acetate	12.488	43	122298	47.976	ug/l	99
48) t-1,3-Dichloropropene	10.829	75	95012	50.286	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	102425	51.219	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	55379	50.753	ug/l	98
51) Ethyl methacrylate	10.871	69	101408	50.011	ug/l	97
52) 1,3-Dichloropropane	11.159	76	98162	50.474	ug/l	99
53) Dibromochloromethane	11.359	129	59642	49.971	ug/l	99
54) 1,2-Dibromoethane	11.465	107	54759	49.715	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	83816	109.390	ug/l	99
56) Bromoform	12.576	173	39512	50.601	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	437121	257.153	ug/l	100
59) 2-Hexanone	11.194	43	327089	258.414	ug/l	100
61) Tetrachloroethene	11.100	164	56938	51.473	ug/l	97
62) Toluene	10.630	91	256618	51.077	ug/l	99
64) Chlorobenzene	11.888	112	155427	50.635	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	50972	50.317	ug/l	99
66) Ethyl Benzene	11.959	91	283578	50.895	ug/l	98
67) m/p-Xylenes	12.065	106	212152	102.399	ug/l	99
68) o-Xylene	12.394	106	102469	50.283	ug/l	98
69) Styrene	12.406	104	175686	51.119	ug/l	98
70) Isopropylbenzene	12.694	105	262686	52.280	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	73996	51.739	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	63875m	31.547	ug/l	
73) Bromobenzene	12.976	156	56423	50.690	ug/l	98
74) n-propylbenzene	13.029	91	310970	52.259	ug/l	100
75) 2-Chlorotoluene	13.123	91	191451	51.337	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	217288	52.644	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	34176	49.787	ug/l	93
78) 4-Chlorotoluene	13.218	91	189125	50.779	ug/l	99
79) tert-butylbenzene	13.435	119	185070	51.819	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	217265	51.911	ug/l	99
81) sec-Butylbenzene	13.612	105	263093	52.809	ug/l	99
82) p-Isopropyltoluene	13.723	119	216916	52.193	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	106054	51.262	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	103216	49.731	ug/l	99
85) n-Butylbenzene	14.053	91	194031	51.752	ug/l	99
86) Hexachloroethane	14.329	117	36584	52.184	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	103230	50.535	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	15834	48.608	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	51050	51.363	ug/l	98
90) Hexachlorobutadiene	15.494	225	20092	46.819	ug/l	96
91) Naphthalene	15.635	128	193770	49.447	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	51050	51.363	ug/l	98

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

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