

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

Manual Integrations
 APPROVED

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

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	31045	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	187987	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	165721	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	90166	29.777	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.267%	
60) 4-Bromofluorobenzene	12.847	95	97275	29.482	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	98.267%	
63) Toluene-d8	10.565	98	279650	29.890	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.633%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	53635	21.563	ug/l	100
3) Chloromethane	2.359	50	69535	20.226	ug/l	100
4) Vinyl Chloride	2.518	62	66222	20.223	ug/l	99
5) Bromomethane	2.965	94	32967	20.183	ug/l	98
6) Chloroethane	3.124	64	42684	20.642	ug/l	99
7) Trichlorofluoromethane	3.501	101	72724	20.473	ug/l	99
8) Diethyl Ether	3.959	74	33215	20.276	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	43944	20.062	ug/l	99
10) 1,1-Dichloroethene	4.348	96	47582	20.128	ug/l	99
11) Methyl Iodide	4.589	142	54740	20.148	ug/l	97
12) Methyl Acetate	5.024	43	64185	19.227	ug/l	98
13) Acrolein	4.177	56	33914	89.375	ug/l	98
14) Acrylonitrile	5.718	53	135274	95.988	ug/l	97
15) Acetone	4.424	58	33542	93.868	ug/l	92
16) Carbon Disulfide	4.712	76	138661	20.456	ug/l	100
17) Allyl chloride	5.024	41	85704	20.801	ug/l	98
18) Methylene Chloride	5.277	84	54353	20.166	ug/l	99
19) trans-1,2-Dichloroethene	5.789	96	48899	19.638	ug/l	96
20) Diisopropyl ether	6.665	45	183254	20.688	ug/l	99
21) 1,1-Dichloroethane	6.565	63	97247	20.578	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	59840	20.174	ug/l	98
23) tert-Butyl Alcohol	5.512	59	56480	96.723	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	172426	20.211	ug/l	98
25) Chloroform	7.965	83	93183	20.677	ug/l	100
26) Cyclohexane	8.253	56	88041	19.913	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	68608	20.373	ug/l	99
30) 2-Butanone	7.483	43	184728	98.995	ug/l	99
31) 2,2-Dichloropropane	7.489	77	87512	21.111	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	77645	20.044	ug/l	100
33) Carbon Tetrachloride	8.359	117	63029	20.360	ug/l	99
34) Benzene	8.600	78	219862	20.522	ug/l #	95
35) Methacrylonitrile	7.777	41	41577	19.764	ug/l	99
36) 1,2-Dichloroethane	8.671	62	68362	20.391	ug/l	100
37) Trichloroethene	9.353	130	51292	19.842	ug/l	94
38) Methylcyclohexane	9.594	83	83168	20.137	ug/l	98
39) 1,2-Dichloropropane	9.618	63	55116	20.675	ug/l	97
40) Dibromomethane	9.706	93	33887	19.681	ug/l	98
41) Bromodichloromethane	9.882	83	75048	20.289	ug/l	99
42) Vinyl Acetate	6.600	43	657878	103.572	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	75482	20.054	ug/l	98
44) Isopropyl Acetate	8.683	43	141640	20.285	ug/l	99
45) 1,4-Dioxane	9.694	88	20541	369.952	ug/l #	92
46) Methyl methacrylate	9.677	41	61396	19.956	ug/l	97
47) n-amyl Acetate	12.488	43	108446	19.589	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	84428	20.190	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	91089	20.581	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	47672	19.741	ug/l	97
51) Ethyl methacrylate	10.871	69	90916	20.259	ug/l	95
52) 1,3-Dichloropropane	11.159	76	87015	20.216	ug/l	100
53) Dibromochloromethane	11.359	129	52628	19.923	ug/l	97
54) 1,2-Dibromoethane	11.471	107	48175	19.762	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	225521	132.990	ug/l	100
56) Bromoform	12.576	173	33456	19.359	ug/l	97
58) 4-Methyl-2-Pentanone	10.441	43	381072	101.329	ug/l	100
59) 2-Hexanone	11.194	43	284098	101.451	ug/l	99
61) Tetrachloroethene	11.100	164	49360	20.169	ug/l	96
62) Toluene	10.630	91	228625	20.568	ug/l	100
64) Chlorobenzene	11.888	112	138700	20.424	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	46048	20.546	ug/l	99
66) Ethyl Benzene	11.959	91	250686	20.336	ug/l	98
67) m/p-Xylenes	12.065	106	186247	40.633	ug/l	100
68) o-Xylene	12.394	106	92550	20.528	ug/l	98
69) Styrene	12.406	104	154208	20.281	ug/l	99
70) Isopropylbenzene	12.694	105	225389	20.275	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	64915	20.516	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	64339m	19.534	ug/l	
73) Bromobenzene	12.976	156	48932	19.870	ug/l	99
74) n-propylbenzene	13.035	91	265507	20.227	ug/l	100
75) 2-Chlorotoluene	13.123	91	164538	19.943	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	185869	20.354	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	29750	19.590	ug/l	93
78) 4-Chlorotoluene	13.218	91	160908	19.528	ug/l	99
79) tert-butylbenzene	13.435	119	158200	20.021	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	185022	19.981	ug/l	99
81) sec-Butylbenzene	13.612	105	222043	20.145	ug/l	99
82) p-Isopropyltoluene	13.729	119	183515	19.959	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	87179	19.047	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	86888	18.923	ug/l	99
85) n-Butylbenzene	14.053	91	164471	19.828	ug/l	99
86) Hexachloroethane	14.329	117	29849	19.245	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	84631	18.727	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	13051	18.109	ug/l	96
89) 1,2,4-Trichlorobenzene	15.841	180	41396	18.826	ug/l	98
90) Hexachlorobutadiene	15.494	225	16389	17.262	ug/l	99
91) Naphthalene	15.635	128	157404	18.155	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	41396	18.826	ug/l	98

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

