

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042125\
 Data File : VN086356.D
 Acq On : 21 Apr 2025 12:48
 Operator : JC\MD
 Sample : VN0421WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0421WBSD01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Apr 22 01:49:16 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

04/22/2025
 Supervised By :Mahesh
 Dadoda

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	D
-----							04
Internal Standards							
1) Bromochloromethane	7.812	128	31444	30.000	ug/l	0.00	
28) 1,4-Difluorobenzene	9.100	114	186836	30.000	ug/l	0.00	
57) Chlorobenzene-d5	11.865	117	171678	30.000	ug/l	0.00	
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.577	65	93511	30.490	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.633%	
60) 4-Bromofluorobenzene	12.847	95	99257	29.039	ug/l	0.00	
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.800%	
63) Toluene-d8	10.565	98	279512	28.839	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.133%	
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	2.124	85	50639	20.100	ug/l	100	
3) Chloromethane	2.359	50	65303	18.754	ug/l	99	
4) Vinyl Chloride	2.512	62	63129	19.034	ug/l	99	
5) Bromomethane	2.959	94	34182	20.661	ug/l	96	
6) Chloroethane	3.124	64	41940	20.025	ug/l	98	
7) Trichlorofluoromethane	3.500	101	71984	20.007	ug/l	100	
8) Diethyl Ether	3.959	74	32774	19.753	ug/l	96	
9) 1,1,2-Trichlorotrifluo...	4.371	101	44831	20.207	ug/l	97	
10) 1,1-Dichloroethene	4.341	96	45367	18.947	ug/l	98	
11) Methyl Iodide	4.589	142	54448	19.786	ug/l	99	
12) Methyl Acetate	5.018	43	74240	21.957	ug/l	99	
13) Acrolein	4.177	56	38164	99.299	ug/l	99	
14) Acrylonitrile	5.718	53	135514	94.938	ug/l	97	
15) Acetone	4.424	58	34124	94.285	ug/l	87	
16) Carbon Disulfide	4.712	76	123031	17.920	ug/l	98	
17) Allyl chloride	5.024	41	73388	17.586	ug/l	91	
18) Methylene Chloride	5.277	84	53489	19.594	ug/l	98	
19) trans-1,2-Dichloroethene	5.783	96	47363	18.780	ug/l	94	
20) Diisopropyl ether	6.665	45	180698	20.141	ug/l	99	
21) 1,1-Dichloroethane	6.565	63	93905	19.618	ug/l	97	
22) cis-1,2-Dichloroethene	7.482	96	60692	20.201	ug/l	98	
23) tert-Butyl Alcohol	5.518	59	55456	93.764	ug/l	# 100	
24) Methyl tert-Butyl Ether	5.794	73	180170	20.851	ug/l	99	
25) Chloroform	7.965	83	95904	21.011	ug/l	96	
26) Cyclohexane	8.253	56	81228	18.139	ug/l	# 96	
29) 1,1-Dichloropropene	8.371	75	66986	20.014	ug/l	99	
30) 2-Butanone	7.482	43	186098	100.344	ug/l	99	
31) 2,2-Dichloropropane	7.488	77	84782	20.579	ug/l	97	
32) 1,1,1-Trichloroethane	8.165	97	80813	20.990	ug/l	99	
33) Carbon Tetrachloride	8.359	117	64217	20.871	ug/l	98	
34) Benzene	8.600	78	219183	20.584	ug/l	97	
35) Methacrylonitrile	7.777	41	40737	19.484	ug/l	97	
36) 1,2-Dichloroethane	8.665	62	74316	22.303	ug/l	96	
37) Trichloroethene	9.347	130	52038	20.255	ug/l	93	
38) Methylcyclohexane	9.600	83	79106	19.272	ug/l	98	
39) 1,2-Dichloropropane	9.618	63	53973	20.371	ug/l	99	
40) Dibromomethane	9.706	93	37577	21.959	ug/l	98	
41) Bromodichloromethane	9.888	83	78471	21.345	ug/l	98	
42) Vinyl Acetate	6.600	43	646993	102.486	ug/l	99	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	74747	19.981	ug/l	95
44) Isopropyl Acetate	8.682	43	142837	20.583	ug/l	99
45) 1,4-Dioxane	9.688	88	22720	411.718	ug/l #	92
46) Methyl methacrylate	9.676	41	63433	20.745	ug/l	93
47) n-amyl Acetate	12.488	43	120366	21.876	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	87075	20.951	ug/l	98
49) cis-1,3-Dichloropropene	10.306	75	91852	20.881	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	51738	21.556	ug/l	97
51) Ethyl methacrylate	10.870	69	93491	20.961	ug/l	96
52) 1,3-Dichloropropane	11.159	76	92180	21.548	ug/l	99
53) Dibromochloromethane	11.353	129	58559	22.305	ug/l	100
54) 1,2-Dibromoethane	11.465	107	54151	22.350	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	174821	103.727	ug/l	99
56) Bromoform	12.576	173	38865	22.627	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	391941	100.603	ug/l	99
59) 2-Hexanone	11.194	43	289212	99.694	ug/l	99
61) Tetrachloroethene	11.100	164	51391	20.270	ug/l	98
62) Toluene	10.629	91	238843	20.742	ug/l	99
64) Chlorobenzene	11.888	112	147968	21.033	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	50028	21.548	ug/l	99
66) Ethyl Benzene	11.959	91	262793	20.579	ug/l	99
67) m/p-Xylenes	12.065	106	199268	41.965	ug/l	100
68) o-Xylene	12.394	106	99599	21.325	ug/l	97
69) Styrene	12.406	104	166721	21.166	ug/l	99
70) Isopropylbenzene	12.694	105	244326	21.216	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	76305	23.279	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	63086m	18.489	ug/l	
73) Bromobenzene	12.976	156	58380	22.884	ug/l	92
74) n-propylbenzene	13.029	91	285750	21.014	ug/l	99
75) 2-Chlorotoluene	13.123	91	182117	21.307	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	199650	21.105	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	30615	19.460	ug/l	98
78) 4-Chlorotoluene	13.217	91	178916	20.960	ug/l	99
79) tert-butylbenzene	13.435	119	168008	20.525	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	204048	21.272	ug/l	99
81) sec-Butylbenzene	13.611	105	240467	21.060	ug/l	99
82) p-Isopropyltoluene	13.723	119	200292	21.028	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	104730	22.087	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	103672	21.794	ug/l	99
85) n-Butylbenzene	14.053	91	175882	20.468	ug/l	99
86) Hexachloroethane	14.329	117	32696	20.349	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	104835	22.392	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	15494	20.753	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	46708	20.504	ug/l	99
90) Hexachlorobutadiene	15.500	225	18593	18.904	ug/l	99
91) Naphthalene	15.635	128	176702	19.674	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	46708	20.504	ug/l	99

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

