

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101723\
 Data File : VN079578.D
 Acq On : 17 Oct 2023 13:26
 Operator : JC\MD
 Sample : VN1017WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1017WBS01

Quant Time: Oct 18 02:27:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/18/2023
 Supervised By : Mahesh Dadoda 10/20/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	22126	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	176161	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	212068	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	97282	30.924	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.067%			
60) 4-Bromofluorobenzene	12.853	95	117850	30.388	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.300%			
63) Toluene-d8	10.571	98	271388	29.865	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.533%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	64254	20.025	ug/l	99
3) Chloromethane	2.365	50	79224	19.050	ug/l	99
4) Vinyl Chloride	2.518	62	88111	19.631	ug/l	95
5) Bromomethane	2.954	94	53137	19.094	ug/l	94
6) Chloroethane	3.124	64	57807	18.299	ug/l	96
7) Trichlorofluoromethane	3.495	101	107177	19.569	ug/l	95
8) Diethyl Ether	3.959	74	39377	19.838	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.383	101	61550	19.643	ug/l	79
10) 1,1-Dichloroethene	4.342	96	57672	19.345	ug/l	92
11) Methyl Iodide	4.589	142	63377	19.201	ug/l	94
12) Methyl Acetate	5.030	43	138982	19.338	ug/l	97
13) Acrolein	4.183	56	56983	95.914	ug/l	100
14) Acrylonitrile	5.724	53	170129	98.848	ug/l	98
15) Acetone	4.430	58	53751	98.586	ug/l	86
16) Carbon Disulfide	4.718	76	174158	19.158	ug/l	96
17) Allyl chloride	5.030	41	85188	18.533	ug/l	97
18) Methylene Chloride	5.283	84	71412	19.461	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	65033	19.499	ug/l	91
20) Diisopropyl ether	6.677	45	219037	20.097	ug/l	98
21) 1,1-Dichloroethane	6.571	63	126933	19.166	ug/l	97
22) cis-1,2-Dichloroethene	7.489	96	75427	19.635	ug/l	94
23) tert-Butyl Alcohol	5.524	59	51263	89.071	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	196331	19.627	ug/l	100
25) Chloroform	7.965	83	132205	19.755	ug/l	93
26) Cyclohexane	8.259	56	95923	19.160	ug/l #	95
29) 1,1-Dichloropropene	8.377	75	96436	18.733	ug/l	98
30) 2-Butanone	7.489	43	235470	91.249	ug/l	99
31) 2,2-Dichloropropane	7.494	77	107348	18.494	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	109500	17.896	ug/l	98
33) Carbon Tetrachloride	8.365	117	96286	18.503	ug/l	98
34) Benzene	8.612	78	287614	18.388	ug/l	95
35) Methacrylonitrile	7.783	41	49527	18.245	ug/l	94
36) 1,2-Dichloroethane	8.671	62	101417	18.160	ug/l	99
37) Trichloroethene	9.359	130	68896	18.844	ug/l	99
38) Methylcyclohexane	9.606	83	90629	18.285	ug/l	98
39) 1,2-Dichloropropane	9.624	63	75007	18.172	ug/l	99
40) Dibromomethane	9.712	93	50238	18.546	ug/l	99
41) Bromodichloromethane	9.888	83	102096	18.187	ug/l	98
42) Vinyl Acetate	6.606	43	611576	93.427	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	100508	20.713	ug/l	# 78
44) Isopropyl Acetate	8.694	43	157046	18.207	ug/l	100
45) 1,4-Dioxane	9.694	88	24456	362.201	ug/l	94
46) Methyl methacrylate	9.683	41	69629	18.195	ug/l	96
47) n-amyl Acetate	12.494	43	110819	17.801	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	106333	18.737	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	115939	18.683	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	70475	18.754	ug/l	96
51) Ethyl methacrylate	10.877	69	97213	18.750	ug/l	97
52) 1,3-Dichloropropane	11.165	76	122151	18.348	ug/l	100
53) Dibromochloromethane	11.359	129	71235	18.547	ug/l	98
54) 1,2-Dibromoethane	11.471	107	68217	18.400	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	234250	118.419	ug/l	98
56) Bromoform	12.582	173	45770	18.014	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	467200	94.452	ug/l	100
59) 2-Hexanone	11.200	43	339466	93.547	ug/l	99
61) Tetrachloroethene	11.106	164	54714	18.791	ug/l	97
62) Toluene	10.635	91	308932	19.061	ug/l	100
64) Chlorobenzene	11.894	112	175650	18.686	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.965	131	66627	18.607	ug/l	97
66) Ethyl Benzene	11.971	91	317708	19.025	ug/l	98
67) m/p-Xylenes	12.077	106	237858	38.511	ug/l	93
68) o-Xylene	12.400	106	111958	18.961	ug/l	96
69) Styrene	12.418	104	182543	19.474	ug/l	98
70) Isopropylbenzene	12.700	105	290905	19.198	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	100699	18.690	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	88612m	18.110	ug/l	
73) Bromobenzene	12.982	156	68287	19.184	ug/l	97
74) n-propylbenzene	13.041	91	344591	19.533	ug/l	99
75) 2-Chlorotoluene	13.129	91	207429	18.913	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	243575	19.663	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	29210	19.560	ug/l	95
78) 4-Chlorotoluene	13.224	91	200180	19.318	ug/l	99
79) tert-butylbenzene	13.441	119	190640	19.141	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	235325	19.606	ug/l	99
81) sec-Butylbenzene	13.618	105	266490	19.060	ug/l	98
82) p-Isopropyltoluene	13.735	119	213647	19.263	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	116209	19.853	ug/l	97
84) 1,4-Dichlorobenzene	13.818	146	107354	19.131	ug/l	98
85) n-Butylbenzene	14.059	91	166580	19.223	ug/l	99
86) Hexachloroethane	14.341	117	43501	18.143	ug/l	97
87) 1,2-Dichlorobenzene	14.112	146	109862	18.883	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	15191	18.503	ug/l	99
89) 1,2,4-Trichlorobenzene	15.847	180	34827	16.983	ug/l	98
90) Hexachlorobutadiene	15.506	225	27228	18.745	ug/l	99
91) Naphthalene	15.647	128	77073	14.570	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	34827	16.983	ug/l	98

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

