

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042123\
 Data File : VN077428.D
 Acq On : 21 Apr 2023 17:38
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Apr 22 02:40:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

04/24/2023
 Supervised By :Mahesh
 Dadoda

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	D
-----							0
Internal Standards							
1) Bromochloromethane	7.825	128	57583	30.000	ug/l	0.00	
28) 1,4-Difluorobenzene	9.107	114	428379	30.000	ug/l	0.00	
57) Chlorobenzene-d5	11.866	117	466435	30.000	ug/l	0.00	
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.584	65	148559	30.420	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.400%	
60) 4-Bromofluorobenzene	12.854	95	239206	29.659	ug/l	0.00	
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.867%	
63) Toluene-d8	10.572	98	488695	29.803	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.333%	
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	2.137	85	110833	20.246	ug/l	100	
3) Chloromethane	2.372	50	99434	13.672	ug/l	92	
4) Vinyl Chloride	2.525	62	144111	13.834	ug/l	96	
5) Bromomethane	2.966	94	119339	15.203	ug/l	97	
6) Chloroethane	3.131	64	105331	15.085	ug/l	100	
7) Trichlorofluoromethane	3.507	101	213158	21.976	ug/l	94	
8) Diethyl Ether	3.978	74	79742	19.288	ug/l	92	
9) 1,1,2-Trichlorotrifluo...	4.378	101	126819	20.909	ug/l	98	
10) 1,1-Dichloroethene	4.349	96	119021	19.616	ug/l	95	
11) Methyl Iodide	4.601	142	150274	21.922	ug/l	94	
12) Methyl Acetate	5.037	43	164988	18.251	ug/l	97	
13) Acrolein	4.196	56	117368	104.596	ug/l	99	
14) Acrylonitrile	5.737	53	266386	86.207	ug/l	99	
15) Acetone	4.437	58	73952	65.968	ug/l	83	
16) Carbon Disulfide	4.725	76	267492	16.702	ug/l #	95	
17) Allyl chloride	5.037	41	132910	17.016	ug/l	92	
18) Methylene Chloride	5.290	84	133533	18.951	ug/l	96	
19) trans-1,2-Dichloroethene	5.796	96	127616	19.343	ug/l	97	
20) Diisopropyl ether	6.684	45	319466	17.161	ug/l	97	
21) 1,1-Dichloroethane	6.572	63	223519	18.943	ug/l	99	
22) cis-1,2-Dichloroethene	7.495	96	153487	19.084	ug/l	98	
23) tert-Butyl Alcohol	5.531	59	115684	84.195	ug/l #	100	
24) Methyl tert-Butyl Ether	5.807	73	430897	19.726	ug/l	100	
25) Chloroform	7.972	83	258802	20.238	ug/l	96	
26) Cyclohexane	8.260	56	182142	17.764	ug/l #	100	
29) 1,1-Dichloropropene	8.378	75	180745	19.477	ug/l	90	
30) 2-Butanone	7.495	43	333864	76.080	ug/l	97	
31) 2,2-Dichloropropane	7.495	77	199750	17.534	ug/l	98	
32) 1,1,1-Trichloroethane	8.172	97	239183	20.944	ug/l	100	
33) Carbon Tetrachloride	8.366	117	199536	20.471	ug/l	90	
34) Benzene	8.613	78	554824	19.323	ug/l	98	
35) Methacrylonitrile	7.790	41	72945	17.646	ug/l	87	
36) 1,2-Dichloroethane	8.678	62	188331	20.921	ug/l	99	
37) Trichloroethene	9.354	130	141659	20.170	ug/l	99	
38) Methylcyclohexane	9.607	83	229652	18.247	ug/l	97	
39) 1,2-Dichloropropane	9.631	63	134920	18.928	ug/l	98	
40) Dibromomethane	9.713	93	103285	20.111	ug/l	99	
41) Bromodichloromethane	9.889	83	203865	19.907	ug/l	91	
42) Vinyl Acetate	6.613	43	1224361m	96.401	ug/l		

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.566	43	143613	17.689	ug/l	#	81
44) Isopropyl Acetate	8.695	43	249045	17.132	ug/l	#	100
45) 1,4-Dioxane	9.695	88	57542	375.330	ug/l		95
46) Methyl methacrylate	9.684	41	110950	17.727	ug/l		92
47) n-amyl Acetate	12.495	43	203208	15.996	ug/l		93
48) t-1,3-Dichloropropene	10.842	75	203573	17.762	ug/l		95
49) cis-1,3-Dichloropropene	10.319	75	222285	18.231	ug/l		94
50) 1,1,2-Trichloroethane	11.019	97	148430	19.897	ug/l		96
51) Ethyl methacrylate	10.878	69	215006	18.768	ug/l		95
52) 1,3-Dichloropropane	11.166	76	242562	19.482	ug/l		100
53) Dibromochloromethane	11.366	129	153405	19.511	ug/l		99
54) 1,2-Dibromoethane	11.472	107	149662	19.985	ug/l		98
55) 2-Chloroethyl vinyl ether	10.166	63	394978	111.672	ug/l		97
56) Bromoform	12.583	173	97779	18.514	ug/l		99
58) 4-Methyl-2-Pentanone	10.448	43	752042	86.112	ug/l		97
59) 2-Hexanone	11.201	43	531730	78.769	ug/l		98
61) Tetrachloroethene	11.107	164	110152	19.855	ug/l		98
62) Toluene	10.636	91	642702	19.748	ug/l		100
64) Chlorobenzene	11.895	112	402865	20.376	ug/l		97
65) 1,1,1,2-Tetrachloroethane	11.960	131	147190	20.244	ug/l		96
66) Ethyl Benzene	11.966	91	703992	19.526	ug/l		99
67) m/p-Xylenes	12.077	106	545453	38.596	ug/l		99
68) o-Xylene	12.401	106	275686	19.499	ug/l		99
69) Styrene	12.413	104	429202	18.948	ug/l		98
70) Isopropylbenzene	12.695	105	710226	19.794	ug/l		99
71) 1,1,2,2-Tetrachloroethane	12.942	83	212187	19.311	ug/l		98
72) 1,2,3-Trichloropropane	12.995	75	158666m	21.243	ug/l		
73) Bromobenzene	12.983	156	151010	20.715	ug/l		91
74) n-propylbenzene	13.042	91	766216	19.300	ug/l		99
75) 2-Chlorotoluene	13.130	91	460132	19.347	ug/l		99
76) 1,3,5-Trimethylbenzene	13.177	105	541892	18.556	ug/l		98
77) t-1,4-Dichloro-2-butene	12.742	75	58161	15.288	ug/l		93
78) 4-Chlorotoluene	13.224	91	428470	19.067	ug/l		99
79) tert-butylbenzene	13.442	119	499507	19.653	ug/l		98
80) 1,2,4-Trimethylbenzene	13.489	105	499417	17.543	ug/l		99
81) sec-Butylbenzene	13.619	105	694616	19.136	ug/l		99
82) p-Isopropyltoluene	13.736	119	537232	18.474	ug/l		99
83) 1,3-Dichlorobenzene	13.736	146	257758	18.649	ug/l		99
84) 1,4-Dichlorobenzene	13.819	146	246547	18.385	ug/l		99
85) n-Butylbenzene	14.060	91	408895	17.015	ug/l		99
86) Hexachloroethane	14.336	117	109727	17.738	ug/l		98
87) 1,2-Dichlorobenzene	14.113	146	265518	19.605	ug/l		99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	38653	18.357	ug/l		88
89) 1,2,4-Trichlorobenzene	15.371	180	63217	11.867	ug/l		97
90) Hexachlorobutadiene	15.465	225	54290	19.871	ug/l		98
91) Naphthalene	15.589	128	242866	11.934	ug/l		99
92) 1,2,3-Trichlorobenzene	15.760	180	63327	12.183	ug/l		99

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

