

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
 Data File : VN077282.D
 Acq On : 07 Apr 2023 17:53
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/10/2023
 Supervised By : Semsettin Yesilyurt 04/10/2023

Quant Time: Apr 08 05:23:21 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

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

Internal Standards						
1) Bromochloromethane	7.819	128	53089	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	405388	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	443948	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	139560	30.996	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	103.333%		
60) 4-Bromofluorobenzene	12.848	95	223057	29.057	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.867%		
63) Toluene-d8	10.566	98	464021	29.732	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.100%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	97405	19.299	ug/l	99
3) Chloromethane	2.372	50	131883	19.669	ug/l	99
4) Vinyl Chloride	2.519	62	182881	19.042	ug/l	100
5) Bromomethane	2.961	94	128200	17.714	ug/l	98
6) Chloroethane	3.131	64	131424	20.416	ug/l	97
7) Trichlorofluoromethane	3.508	101	167853	18.770	ug/l	93
8) Diethyl Ether	3.972	74	74606	19.573	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.378	101	108332	19.373	ug/l	98
10) 1,1-Dichloroethene	4.355	96	105990	18.947	ug/l	98
11) Methyl Iodide	4.596	142	124048	19.628	ug/l	100
12) Methyl Acetate	5.037	43	169865	20.381	ug/l	98
13) Acrolein	4.184	56	102375	98.958	ug/l	99
14) Acrylonitrile	5.725	53	295391	103.686	ug/l	98
15) Acetone	4.437	58	82681	79.998	ug/l	86
16) Carbon Disulfide	4.725	76	266690	18.062	ug/l #	91
17) Allyl chloride	5.031	41	127874	17.757	ug/l	94
18) Methylene Chloride	5.284	84	121628	18.723	ug/l	99
19) trans-1,2-Dichloroethene	5.802	96	115304	18.956	ug/l	95
20) Diisopropyl ether	6.684	45	331721	19.327	ug/l	95
21) 1,1-Dichloroethane	6.578	63	210288	19.330	ug/l	98
22) cis-1,2-Dichloroethene	7.496	96	141740	19.115	ug/l	98
23) tert-Butyl Alcohol	5.537	59	127052	100.296	ug/l #	100
24) Methyl tert-Butyl Ether	5.802	73	398413	19.783	ug/l	99
25) Chloroform	7.972	83	228234	19.359	ug/l	95
26) Cyclohexane	8.266	56	179730	19.013	ug/l #	100
29) 1,1-Dichloropropene	8.378	75	164003	18.675	ug/l	100
30) 2-Butanone	7.490	43	377351	90.866	ug/l	99
31) 2,2-Dichloropropane	7.496	77	196080	18.189	ug/l	100
32) 1,1,1-Trichloroethane	8.172	97	206056	19.066	ug/l	99
33) Carbon Tetrachloride	8.366	117	175752m	19.054	ug/l	
34) Benzene	8.613	78	517315	19.038	ug/l	99
35) Methacrylonitrile	7.790	41	84252	21.537	ug/l	94
36) 1,2-Dichloroethane	8.672	62	171681	20.153	ug/l	99
37) Trichloroethene	9.354	130	125081	18.820	ug/l	93
38) Methylcyclohexane	9.607	83	223300	18.748	ug/l	99
39) 1,2-Dichloropropane	9.625	63	129083	19.137	ug/l	94
40) Dibromomethane	9.713	93	96696	19.896	ug/l	97
41) Bromodichloromethane	9.890	83	185922	19.185	ug/l	97
42) Vinyl Acetate	6.613	43	1168906	97.255	ug/l #	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	158873	20.678	ug/l #	91
44) Isopropyl Acetate	8.696	43	272348	19.798	ug/l #	100
45) 1,4-Dioxane	9.701	88	60658	418.093	ug/l	97
46) Methyl methacrylate	9.684	41	115240	19.457	ug/l	97
47) n-amyl Acetate	12.495	43	234459	19.502	ug/l	100
48) t-1,3-Dichloropropene	10.837	75	209038	19.273	ug/l	97
49) cis-1,3-Dichloropropene	10.313	75	222618	19.294	ug/l	99
50) 1,1,2-Trichloroethane	11.019	97	137570	19.487	ug/l	97
51) Ethyl methacrylate	10.878	69	213566	19.700	ug/l	96
52) 1,3-Dichloropropane	11.166	76	230962	19.603	ug/l	98
53) Dibromochloromethane	11.360	129	146761	19.725	ug/l	99
54) 1,2-Dibromoethane	11.472	107	138970	19.610	ug/l	96
55) 2-Chloroethyl vinyl ether	10.160	63	342115	102.212	ug/l	99
56) Bromoform	12.584	173	95566	19.121	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	834213	100.360	ug/l	99
59) 2-Hexanone	11.195	43	609320	94.835	ug/l	100
61) Tetrachloroethene	11.107	164	100874	19.104	ug/l	98
62) Toluene	10.631	91	584923	18.883	ug/l	99
64) Chlorobenzene	11.895	112	358578	19.055	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.960	131	132362	19.127	ug/l	98
66) Ethyl Benzene	11.966	91	649128	18.916	ug/l	97
67) m/p-Xylenes	12.072	106	507802	37.752	ug/l	99
68) o-Xylene	12.401	106	258183	19.186	ug/l	99
69) Styrene	12.413	104	410317	19.032	ug/l	99
70) Isopropylbenzene	12.701	105	639706	18.732	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	209803	20.061	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	147444m	20.740	ug/l	
73) Bromobenzene	12.984	156	132780	19.137	ug/l	97
74) n-propylbenzene	13.036	91	715924	18.947	ug/l	100
75) 2-Chlorotoluene	13.131	91	438366	19.366	ug/l	100
76) 1,3,5-Trimethylbenzene	13.178	105	528361	19.009	ug/l	97
77) t-1,4-Dichloro-2-butene	12.742	75	75836	20.943	ug/l	98
78) 4-Chlorotoluene	13.225	91	407007	19.029	ug/l	100
79) tert-butylbenzene	13.442	119	466992	19.305	ug/l	99
80) 1,2,4-Trimethylbenzene	13.483	105	517390	19.095	ug/l	99
81) sec-Butylbenzene	13.619	105	647725	18.748	ug/l	99
82) p-Isopropyltoluene	13.731	119	519672	18.775	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	243398	18.502	ug/l	100
84) 1,4-Dichlorobenzene	13.813	146	231475	18.136	ug/l	98
85) n-Butylbenzene	14.060	91	407954	17.836	ug/l	98
86) Hexachloroethane	14.336	117	109352	18.572	ug/l	97
87) 1,2-Dichlorobenzene	14.107	146	246233	19.102	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.725	75	37377	18.651	ug/l	100
89) 1,2,4-Trichlorobenzene	15.372	180	88972	17.547	ug/l	100
90) Hexachlorobutadiene	15.466	225	47249	18.170	ug/l	96
91) Naphthalene	15.589	128	362824	18.731	ug/l	99
92) 1,2,3-Trichlorobenzene	15.754	180	86402	17.464	ug/l	99

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

