

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041423\
 Data File : VN077341.D
 Acq On : 14 Apr 2023 09:29
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Apr 17 05:04:34 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

04/17/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.819	128	50824	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	390614	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	423016	30.000	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.583	65	123332	28.613	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.367%
60) 4-Bromofluorobenzene	12.854	95	216106	29.545	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.467%
63) Toluene-d8	10.572	98	442210	29.736	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.133%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.137	85	92737	19.193	ug/l	99
3) Chloromethane	2.372	50	110528	17.219	ug/l	99
4) Vinyl Chloride	2.525	62	163125	17.742	ug/l	96
5) Bromomethane	2.960	94	117931	17.022	ug/l	96
6) Chloroethane	3.131	64	115923	18.810	ug/l	95
7) Trichlorofluoromethane	3.507	101	162969	19.036	ug/l	98
8) Diethyl Ether	3.972	74	66484	18.220	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.378	101	103060	19.251	ug/l	88
10) 1,1-Dichloroethene	4.348	96	96571	18.032	ug/l	95
11) Methyl Iodide	4.595	142	120042	19.841	ug/l	98
12) Methyl Acetate	5.037	43	142602	17.872	ug/l	100
13) Acrolein	4.190	56	93429	94.335	ug/l	99
14) Acrylonitrile	5.731	53	233248	85.522	ug/l	99
15) Acetone	4.437	58	76646	77.464	ug/l	94
16) Carbon Disulfide	4.719	76	242048	17.123	ug/l	99
17) Allyl chloride	5.031	41	105156	15.253	ug/l	90
18) Methylene Chloride	5.284	84	112932	18.159	ug/l	95
19) trans-1,2-Dichloroethene	5.789	96	104039	17.866	ug/l	95
20) Diisopropyl ether	6.689	45	283875m	17.277	ug/l	
21) 1,1-Dichloroethane	6.578	63	189620	18.207	ug/l	94
22) cis-1,2-Dichloroethene	7.495	96	134127	18.894	ug/l	95
23) tert-Butyl Alcohol	5.531	59	104630	86.277	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	352233	18.269	ug/l	99
25) Chloroform	7.972	83	209470	18.559	ug/l	100
26) Cyclohexane	8.266	56	157030	17.352	ug/l #	96
29) 1,1-Dichloropropene	8.378	75	150329	17.766	ug/l	98
30) 2-Butanone	7.489	43	307468	76.839	ug/l	96
31) 2,2-Dichloropropane	7.495	77	181272	17.451	ug/l	100
32) 1,1,1-Trichloroethane	8.172	97	189911	18.237	ug/l	99
33) Carbon Tetrachloride	8.372	117	162161	18.245	ug/l	89
34) Benzene	8.613	78	478259	18.267	ug/l	98
35) Methacrylonitrile	7.783	41	63000	16.713	ug/l	92
36) 1,2-Dichloroethane	8.678	62	149647	18.231	ug/l	99
37) Trichloroethene	9.354	130	119828	18.711	ug/l	100
38) Methylcyclohexane	9.607	83	204999	17.863	ug/l	98
39) 1,2-Dichloropropane	9.630	63	117778	18.121	ug/l	97
40) Dibromomethane	9.713	93	85026	18.156	ug/l	98
41) Bromodichloromethane	9.895	83	168475	18.042	ug/l #	96
42) Vinyl Acetate	6.613	43	1091001m	94.206	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	124446	16.810	ug/l	95
44) Isopropyl Acetate	8.695	43	224552	16.941	ug/l #	100
45) 1,4-Dioxane	9.695	88	50219	359.233	ug/l	93
46) Methyl methacrylate	9.683	41	93670	16.413	ug/l	87
47) n-amyl Acetate	12.501	43	199012	17.180	ug/l	99
48) t-1,3-Dichloropropene	10.842	75	177251	16.961	ug/l	97
49) cis-1,3-Dichloropropene	10.319	75	198696	17.872	ug/l	96
50) 1,1,2-Trichloroethane	11.019	97	122743	18.045	ug/l	96
51) Ethyl methacrylate	10.877	69	183287	17.546	ug/l	97
52) 1,3-Dichloropropane	11.171	76	205072	18.064	ug/l	99
53) Dibromochloromethane	11.360	129	133566	18.630	ug/l	99
54) 1,2-Dibromoethane	11.471	107	122633	17.959	ug/l	98
55) 2-Chloroethyl vinyl ether	10.166	63	298479	92.548	ug/l	96
56) Bromoform	12.583	173	86326	17.925	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	679765	85.825	ug/l	99
59) 2-Hexanone	11.195	43	492764	80.489	ug/l	98
61) Tetrachloroethene	11.107	164	91790	18.243	ug/l	95
62) Toluene	10.636	91	543720	18.422	ug/l	99
64) Chlorobenzene	11.895	112	333839	18.618	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.966	131	126228	19.143	ug/l	98
66) Ethyl Benzene	11.966	91	599253	18.327	ug/l	97
67) m/p-Xylenes	12.077	106	474093	36.990	ug/l	100
68) o-Xylene	12.401	106	235113	18.336	ug/l	97
69) Styrene	12.413	104	372834	18.149	ug/l	100
70) Isopropylbenzene	12.701	105	607714	18.675	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	182581	18.322	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	133351m	19.686	ug/l	
73) Bromobenzene	12.983	156	125904	19.044	ug/l	94
74) n-propylbenzene	13.042	91	677575	18.820	ug/l	100
75) 2-Chlorotoluene	13.130	91	410890	19.050	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	494381	18.666	ug/l	99
77) t-1,4-Dichloro-2-butene	12.742	75	57760	16.741	ug/l	94
78) 4-Chlorotoluene	13.224	91	373213	18.313	ug/l	100
79) tert-butylbenzene	13.442	119	427585	18.550	ug/l	98
80) 1,2,4-Trimethylbenzene	13.489	105	464234	17.981	ug/l	100
81) sec-Butylbenzene	13.618	105	623728	18.947	ug/l	99
82) p-Isopropyltoluene	13.736	119	492349	18.668	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	228199	18.205	ug/l	100
84) 1,4-Dichlorobenzene	13.818	146	223570	18.383	ug/l	98
85) n-Butylbenzene	14.060	91	391856	17.980	ug/l	99
86) Hexachloroethane	14.336	117	97123	17.312	ug/l	93
87) 1,2-Dichlorobenzene	14.112	146	225747	18.380	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	31831	16.669	ug/l	98
89) 1,2,4-Trichlorobenzene	15.371	180	65136	13.482	ug/l	97
90) Hexachlorobutadiene	15.465	225	46593	18.804	ug/l	98
91) Naphthalene	15.589	128	248440	13.460	ug/l	99
92) 1,2,3-Trichlorobenzene	15.759	180	64342	13.649	ug/l	99

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

