

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050823\
 Data File : VN077610.D
 Acq On : 08 May 2023 11:22
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/09/2023
 Supervised By : Mahesh Dadoda 05/09/2023

Quant Time: May 08 12:56:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon May 08 12:44:57 2023
 Response via : Initial Calibration

Supervised By : Mahesh
 Dadoda
 05/09/2023

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

Internal Standards						
1) Bromochloromethane	7.819	128	113889	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	638494	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	596966	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	245918	30.026	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.100%			
60) 4-Bromofluorobenzene	12.854	95	283626	29.880	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.600%			
63) Toluene-d8	10.572	98	821838	29.807	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.367%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	147870	19.775	ug/l	97
3) Chloromethane	2.372	50	107371	18.894	ug/l	97
4) Vinyl Chloride	2.525	62	163923	18.747	ug/l	96
5) Bromomethane	2.972	94	109538	18.793	ug/l	96
6) Chloroethane	3.131	64	103245	18.073	ug/l	98
7) Trichlorofluoromethane	3.507	101	236045	19.849	ug/l	89
8) Diethyl Ether	3.966	74	68124	18.204	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.378	101	117053m	18.246	ug/l	
10) 1,1-Dichloroethene	4.354	96	110725	18.248	ug/l	90
11) Methyl Iodide	4.601	142	172917	18.322	ug/l	92
12) Methyl Acetate	5.037	43	140629	19.172	ug/l #	84
13) Acrolein	4.190	56	80598	89.704	ug/l	98
14) Acrylonitrile	5.725	53	214145	95.976	ug/l	98
15) Acetone	4.431	58	64668m	95.223	ug/l	
16) Carbon Disulfide	4.719	76	258602	17.741	ug/l	98
17) Allyl chloride	5.031	41	115570	18.454	ug/l	97
18) Methylene Chloride	5.278	84	134147	18.190	ug/l #	87
19) trans-1,2-Dichloroethene	5.801	96	128360	18.803	ug/l #	94
20) Diisopropyl ether	6.678	45	302401	19.740	ug/l #	91
21) 1,1-Dichloroethane	6.578	63	214200	19.062	ug/l	99
22) cis-1,2-Dichloroethene	7.495	96	157973	19.205	ug/l	93
23) tert-Butyl Alcohol	5.531	59	85591	97.807	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	400153	19.482	ug/l	95
25) Chloroform	7.972	83	260826	19.473	ug/l	95
26) Cyclohexane	8.266	56	175804	19.058	ug/l #	96
29) 1,1-Dichloropropene	8.378	75	179615	19.541	ug/l	97
30) 2-Butanone	7.490	43	255132	104.133	ug/l	90
31) 2,2-Dichloropropane	7.495	77	208573	19.477	ug/l	100
32) 1,1,1-Trichloroethane	8.172	97	232146	19.515	ug/l	97
33) Carbon Tetrachloride	8.366	117	200444	19.925	ug/l	94
34) Benzene	8.607	78	555768	20.025	ug/l	95
35) Methacrylonitrile	7.784	41	61032	21.946	ug/l	86
36) 1,2-Dichloroethane	8.678	62	185724	20.072	ug/l	98
37) Trichloroethene	9.354	130	140182	19.539	ug/l	94
38) Methylcyclohexane	9.601	83	228615	19.317	ug/l	94
39) 1,2-Dichloropropane	9.625	63	129954	20.224	ug/l	95
40) Dibromomethane	9.713	93	101184	19.973	ug/l	94
41) Bromodichloromethane	9.889	83	205826	20.177	ug/l	99
42) Vinyl Acetate	6.613	43	928868m	112.836	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	105448	20.058	ug/l	97
44) Isopropyl Acetate	8.689	43	195577	20.282	ug/l	90
45) 1,4-Dioxane	9.695	88	45981	383.683	ug/l	91
46) Methyl methacrylate	9.689	41	93487	21.592	ug/l	94
47) n-amyl Acetate	12.495	43	170965	20.590	ug/l	98
48) t-1,3-Dichloropropene	10.836	75	201447	19.588	ug/l	99
49) cis-1,3-Dichloropropene	10.313	75	222753	19.762	ug/l	96
50) 1,1,2-Trichloroethane	11.019	97	148278	20.325	ug/l	88
51) Ethyl methacrylate	10.878	69	191379	20.321	ug/l	91
52) 1,3-Dichloropropane	11.166	76	236535	20.052	ug/l	99
53) Dibromochloromethane	11.360	129	154975	20.417	ug/l	98
54) 1,2-Dibromoethane	11.472	107	148887	20.545	ug/l	96
55) 2-Chloroethyl vinyl ether	10.160	63	452260	106.195	ug/l	98
56) Bromoform	12.583	173	89568	20.055	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	565716	102.906	ug/l #	94
59) 2-Hexanone	11.201	43	398623	100.450	ug/l	91
61) Tetrachloroethene	11.107	164	111487	19.307	ug/l	95
62) Toluene	10.636	91	631176	19.097	ug/l	100
64) Chlorobenzene	11.895	112	390470	19.211	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.960	131	148051	20.191	ug/l	98
66) Ethyl Benzene	11.966	91	714097	19.500	ug/l	99
67) m/p-Xylenes	12.072	106	561664	38.982	ug/l	96
68) o-Xylene	12.401	106	277396	19.536	ug/l	94
69) Styrene	12.413	104	436870	19.242	ug/l	98
70) Isopropylbenzene	12.695	105	713812	19.355	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.942	83	192359	19.449	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	164683m	19.015	ug/l	
73) Bromobenzene	12.983	156	148630	19.273	ug/l	92
74) n-propylbenzene	13.036	91	776447	18.829	ug/l	99
75) 2-Chlorotoluene	13.124	91	481622	19.311	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	553416	18.987	ug/l	100
77) t-1,4-Dichloro-2-butene	12.736	75	55563	19.381	ug/l	91
78) 4-Chlorotoluene	13.224	91	460269	18.901	ug/l	99
79) tert-butylbenzene	13.442	119	492000	18.848	ug/l	98
80) 1,2,4-Trimethylbenzene	13.489	105	521628	18.441	ug/l	100
81) sec-Butylbenzene	13.619	105	670887	18.310	ug/l	100
82) p-Isopropyltoluene	13.730	119	534800	18.345	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	265859	18.565	ug/l	98
84) 1,4-Dichlorobenzene	13.813	146	255386	18.217	ug/l	98
85) n-Butylbenzene	14.060	91	402011	16.762	ug/l	99
86) Hexachloroethane	14.336	117	101219	18.630	ug/l	92
87) 1,2-Dichlorobenzene	14.107	146	262082	18.854	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.719	75	34923	19.431	ug/l	94
89) 1,2,4-Trichlorobenzene	15.401	180	77531	16.189	ug/l	99
90) Hexachlorobutadiene	15.507	225	44320	16.411	ug/l	93
91) Naphthalene	15.642	128	268423	16.407	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	71672	16.250	ug/l	97

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

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