

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040822\
 Data File : VN071924.D
 Acq On : 08 Apr 2022 19:08
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/11/2022
 Supervised By : Mahesh Dadoda 04/11/2022

Quant Time: Apr 09 05:21:54 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 24 12:03:44 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	78003	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	438510	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	406872	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	157899	28.731	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	95.767%	
60) 4-Bromofluorobenzene	12.727	95	171862	28.488	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	94.967%	
63) Toluene-d8	10.439	98	551160	29.841	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.467%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	113585	23.395	ug/l	98
3) Chloromethane	2.304	50	128061	22.379	ug/l	99
4) Vinyl Chloride	2.446	62	134538	20.501	ug/l	98
5) Bromomethane	2.857	94	84829	21.937	ug/l	100
6) Chloroethane	3.022	64	84319	20.065	ug/l	98
7) Trichlorofluoromethane	3.375	101	165536	21.636	ug/l	98
8) Diethyl Ether	3.828	74	67169	20.893	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.210	101	98610	21.521	ug/l #	64
10) 1,1-Dichloroethene	4.187	96	97848	21.652	ug/l	95
11) Methyl Iodide	4.428	142	123930	18.715	ug/l	87
12) Methyl Acetate	4.857	43	128706	20.209	ug/l	94
13) Acrolein	4.040	56	71019	104.818	ug/l #	60
14) Acrylonitrile	5.551	53	307908	106.748	ug/l	97
15) Acetone	4.287	58	83513	100.608	ug/l	73
16) Carbon Disulfide	4.534	76	251859	21.406	ug/l	97
17) Allyl chloride	4.845	41	144559	19.722	ug/l	82
18) Methylene Chloride	5.098	84	115392	21.285	ug/l	95
19) trans-1,2-Dichloroethene	5.598	96	104797	21.681	ug/l	92
20) Diisopropyl ether	6.492	45	320102	20.872	ug/l	95
21) 1,1-Dichloroethane	6.386	63	192121	20.749	ug/l	96
22) cis-1,2-Dichloroethene	7.328	96	126020	21.460	ug/l	94
23) tert-Butyl Alcohol	5.363	59	91409	88.811	ug/l #	100
24) Methyl tert-Butyl Ether	5.616	73	330264	20.250	ug/l #	89
25) Chloroform	7.816	83	196608	21.112	ug/l	97
26) Cyclohexane	8.092	56	170562	21.311	ug/l #	97
29) 1,1-Dichloropropene	8.216	75	145973	20.566	ug/l	99
30) 2-Butanone	7.328	43	380744	96.369	ug/l	96
31) 2,2-Dichloropropane	7.328	77	146051	18.063	ug/l	96
32) 1,1,1-Trichloroethane	8.010	97	166260	20.112	ug/l	97
33) Carbon Tetrachloride	8.204	117	143421	20.496	ug/l	97
34) Benzene	8.457	78	471532	21.383	ug/l	97
35) Methacrylonitrile	7.628	41	75741	19.981	ug/l	92
36) 1,2-Dichloroethane	8.528	62	148970	19.364	ug/l #	94
37) Trichloroethene	9.216	130	119835	21.060	ug/l	92
38) Methylcyclohexane	9.457	83	183569	20.519	ug/l	98
39) 1,2-Dichloropropane	9.486	63	112569	20.403	ug/l	94
40) Dibromomethane	9.575	93	76236	20.414	ug/l	84
41) Bromodichloromethane	9.757	83	152705	20.435	ug/l	94
42) Vinyl Acetate	6.428	43	1323709	97.782	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	165903	21.655	ug/l	96
44) Isopropyl Acetate	8.557	43	226995	18.474	ug/l #	87
45) 1,4-Dioxane	9.563	88	46202	372.680	ug/l	93
46) Methyl methacrylate	9.557	41	99686	18.500	ug/l	78
47) n-amyl Acetate	12.386	43	135591m	16.536	ug/l	
48) t-1,3-Dichloropropene	10.716	75	154534	19.026	ug/l	99
49) cis-1,3-Dichloropropene	10.186	75	175152	19.719	ug/l #	84
50) 1,1,2-Trichloroethane	10.892	97	118903	21.298	ug/l	97
51) Ethyl methacrylate	10.757	69	176785	20.509	ug/l	77
52) 1,3-Dichloropropane	11.039	76	199575	20.933	ug/l	98
53) Dibromochloromethane	11.233	129	119368	20.655	ug/l	99
54) 1,2-Dibromoethane	11.339	107	121083	21.085	ug/l	98
55) 2-Chloroethyl vinyl ether	10.039	63	182007	78.368	ug/l	98
56) Bromoform	12.451	173	91135	20.453	ug/l #	100
58) 4-Methyl-2-Pentanone	10.327	43	759950	98.393	ug/l	90
59) 2-Hexanone	11.080	43	536333	95.109	ug/l	88
61) Tetrachloroethene	10.974	164	107934	21.797	ug/l	91
62) Toluene	10.504	91	520023	21.078	ug/l	97
64) Chlorobenzene	11.768	112	312514	20.536	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.839	131	112831	20.211	ug/l	99
66) Ethyl Benzene	11.839	91	540456	20.158	ug/l	98
67) m/p-Xylenes	11.951	106	422213	40.480	ug/l	96
68) o-Xylene	12.274	106	208091	20.073	ug/l	95
69) Styrene	12.292	104	315035	19.309	ug/l	97
70) Isopropylbenzene	12.574	105	519819	19.978	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.821	83	173886	20.534	ug/l	98
72) 1,2,3-Trichloropropane	12.874	75	147853m	20.323	ug/l	
73) Bromobenzene	12.857	156	124140	19.558	ug/l	94
74) n-propylbenzene	12.915	91	542908	19.118	ug/l	98
75) 2-Chlorotoluene	13.004	91	347351	19.573	ug/l	99
76) 1,3,5-Trimethylbenzene	13.057	105	428296	20.518	ug/l	95
77) t-1,4-Dichloro-2-butene	12.621	75	41814	16.369	ug/l	95
78) 4-Chlorotoluene	13.104	91	311723	18.808	ug/l	99
79) tert-butylbenzene	13.321	119	377751	20.054	ug/l	93
80) 1,2,4-Trimethylbenzene	13.363	105	406047m	20.048	ug/l	
81) sec-Butylbenzene	13.498	105	487060	19.244	ug/l	98
82) p-Isopropyltoluene	13.610	119	385647	18.753	ug/l	96
83) 1,3-Dichlorobenzene	13.610	146	193437	18.624	ug/l	97
84) 1,4-Dichlorobenzene	13.692	146	185162	18.678	ug/l	99
85) n-Butylbenzene	13.939	91	252287	16.517	ug/l	95
86) Hexachloroethane	14.204	117	69422	18.078	ug/l	80
87) 1,2-Dichlorobenzene	13.986	146	194791	19.399	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.598	75	27094	17.982	ug/l #	81
89) 1,2,4-Trichlorobenzene	15.257	180	80791	17.406	ug/l	99
90) Hexachlorobutadiene	15.368	225	54257	19.726	ug/l	98
91) Naphthalene	15.504	128	211709	18.721	ug/l	99
92) 1,2,3-Trichlorobenzene	15.692	180	83234	18.284	ug/l	98

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

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