

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032422\
 Data File : VN071511.D
 Acq On : 24 Mar 2022 10:06
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/25/2022
 Supervised By : Mahesh Dadoda 03/25/2022

Quant Time: Mar 24 11:42:49 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 24 11:41:47 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.651	128	114767	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	625785	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	561925	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	247668	27.763	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.533%		
60) 4-Bromofluorobenzene	12.727	95	231302	26.832	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	89.433%		
63) Toluene-d8	10.439	98	779826	30.160	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.533%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	31926	4.318	ug/l	97
3) Chloromethane	2.299	50	43558	4.546	ug/l	97
4) Vinyl Chloride	2.440	62	47882	5.231	ug/l	99
5) Bromomethane	2.840	94	33344	6.905	ug/l	96
6) Chloroethane	3.010	64	30497	5.430	ug/l #	88
7) Trichlorofluoromethane	3.369	101	57725	5.062	ug/l	93
8) Diethyl Ether	3.822	74	23359	4.719	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.216	101	34228	5.244	ug/l #	65
10) 1,1-Dichloroethene	4.187	96	32805	4.987	ug/l	95
11) Methyl Iodide	4.422	142	43457	4.725	ug/l	92
12) Methyl Acetate	4.851	43	49951	4.184	ug/l	98
13) Acrolein	4.040	56	25049	16.625	ug/l	98
14) Acrylonitrile	5.551	53	102056	20.272	ug/l	98
15) Acetone	4.287	58	32611	23.998	ug/l	90
16) Carbon Disulfide	4.534	76	84478	4.777	ug/l	96
17) Allyl chloride	4.834	41	51744	3.994	ug/l	80
18) Methylene Chloride	5.093	84	42709	5.347	ug/l	93
19) trans-1,2-Dichloroethene	5.593	96	35653	5.141	ug/l	99
20) Diisopropyl ether	6.487	45	110107	4.156	ug/l	96
21) 1,1-Dichloroethane	6.381	63	70321	4.934	ug/l	98
22) cis-1,2-Dichloroethene	7.322	96	43113	5.120	ug/l	97
23) tert-Butyl Alcohol	5.363	59	33604	18.169	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	117617	4.728	ug/l #	75
25) Chloroform	7.816	83	69679	5.033	ug/l	99
26) Cyclohexane	8.087	56	57224	4.453	ug/l #	99
29) 1,1-Dichloropropene	8.216	75	48064	4.778	ug/l	99
30) 2-Butanone	7.328	43	139995	20.486	ug/l	100
31) 2,2-Dichloropropane	7.316	77	56654	5.784	ug/l #	83
32) 1,1,1-Trichloroethane	8.010	97	58843	5.028	ug/l	97
33) Carbon Tetrachloride	8.204	117	48294	4.849	ug/l	94
34) Benzene	8.457	78	161748	5.189	ug/l #	94
35) Methacrylonitrile	7.628	41	26574	4.008	ug/l	94
36) 1,2-Dichloroethane	8.528	62	59026	5.335	ug/l	97
37) Trichloroethene	9.210	130	40544	5.367	ug/l	96
38) Methylcyclohexane	9.457	83	58663	4.797	ug/l	95
39) 1,2-Dichloropropane	9.486	63	40113	4.914	ug/l	97
40) Dibromomethane	9.575	93	27078	5.171	ug/l	87
41) Bromodichloromethane	9.757	83	52529	4.990	ug/l	99
42) Vinyl Acetate	6.428	43	454134	20.254	ug/l	97

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43) Ethyl Acetate	7.404	43	53096	3.992	ug/l	98
44) Isopropyl Acetate	8.557	43	93090	4.372	ug/l	99
45) 1,4-Dioxane	9.569	88	16379	84.294	ug/l #	90
46) Methyl methacrylate	9.557	41	33961	3.595	ug/l	89
47) n-amyl Acetate	12.380	43	46920m	3.327	ug/l	
48) t-1,3-Dichloropropene	10.716	75	52951	4.626	ug/l	93
49) cis-1,3-Dichloropropene	10.186	75	59091	4.755	ug/l	90
50) 1,1,2-Trichloroethane	10.892	97	40574	5.277	ug/l	96
51) Ethyl methacrylate	10.757	69	53726	4.169	ug/l	87
52) 1,3-Dichloropropane	11.039	76	69154	5.050	ug/l	98
53) Dibromochloromethane	11.233	129	38717	4.860	ug/l	99
54) 1,2-Dibromoethane	11.339	107	40560	5.110	ug/l	96
55) 2-Chloroethyl vinyl ether	10.039	63	46687	11.953	ug/l	98
56) Bromoform	12.457	173	28229	4.578	ug/l #	99
58) 4-Methyl-2-Pentanone	10.328	43	251226	19.531	ug/l	93
59) 2-Hexanone	11.080	43	182627	19.117	ug/l	93
61) Tetrachloroethene	10.975	164	36065	5.728	ug/l	87
62) Toluene	10.498	91	175598	5.413	ug/l	97
64) Chlorobenzene	11.763	112	106614	5.407	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.839	131	37953	5.189	ug/l	97
66) Ethyl Benzene	11.839	91	175433	4.933	ug/l	96
67) m/p-Xylenes	11.951	106	135797	10.042	ug/l	94
68) o-Xylene	12.275	106	67866	5.024	ug/l	95
69) Styrene	12.292	104	98195	4.611	ug/l	98
70) Isopropylbenzene	12.574	105	165061	4.821	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.822	83	59427	5.066	ug/l	98
72) 1,2,3-Trichloropropane	12.874	75	51495m	4.778	ug/l	
73) Bromobenzene	12.857	156	42391	5.260	ug/l	96
74) n-propylbenzene	12.916	91	170199	4.531	ug/l	99
75) 2-Chlorotoluene	13.004	91	116820	4.953	ug/l	99
76) 1,3,5-Trimethylbenzene	13.057	105	130633	4.793	ug/l	96
77) t-1,4-Dichloro-2-butene	12.622	75	14526	4.148	ug/l	97
78) 4-Chlorotoluene	13.098	91	102692	4.691	ug/l	97
79) tert-butylbenzene	13.322	119	117194	4.727	ug/l	96
80) 1,2,4-Trimethylbenzene	13.363	105	124252	4.731	ug/l #	80
81) sec-Butylbenzene	13.498	105	152842	4.616	ug/l	98
82) p-Isopropyltoluene	13.610	119	118916	4.474	ug/l	98
83) 1,3-Dichlorobenzene	13.610	146	64747	4.935	ug/l	99
84) 1,4-Dichlorobenzene	13.692	146	61417	4.902	ug/l	98
85) n-Butylbenzene	13.939	91	79770	4.038	ug/l	98
86) Hexachloroethane	14.204	117	23689	4.666	ug/l	86
87) 1,2-Dichlorobenzene	13.986	146	63926	5.005	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.604	75	8895	4.033	ug/l	89
89) 1,2,4-Trichlorobenzene	15.263	180	21044	3.584	ug/l	95
90) Hexachlorobutadiene	15.368	225	18826	5.584	ug/l	100
91) Naphthalene	15.504	128	42540	2.371	ug/l	98
92) 1,2,3-Trichlorobenzene	15.698	180	19678	3.294	ug/l	93

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

