

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032422\
 Data File : VN071513.D
 Acq On : 24 Mar 2022 10:54
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

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

Quant Time: Mar 24 11:44:14 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	7.657	128	107697	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	611020	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	556718	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	232428	27.765	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.567%		
60) 4-Bromofluorobenzene	12.727	95	250198	29.296	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.667%		
63) Toluene-d8	10.439	98	771631	30.122	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.400%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	349862	50.431	ug/l	99
3) Chloromethane	2.299	50	400732	44.572	ug/l	96
4) Vinyl Chloride	2.440	62	463987	54.015	ug/l	100
5) Bromomethane	2.840	94	284297	62.741	ug/l	99
6) Chloroethane	3.004	64	305463	57.961	ug/l	99
7) Trichlorofluoromethane	3.369	101	531553	49.677	ug/l	98
8) Diethyl Ether	3.822	74	224688	48.376	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.210	101	319358	52.137	ug/l #	65
10) 1,1-Dichloroethene	4.181	96	312490	50.628	ug/l	98
11) Methyl Iodide	4.422	142	475098	55.044	ug/l	89
12) Methyl Acetate	4.851	43	433648	38.709	ug/l	100
13) Acrolein	4.040	56	239722	169.544	ug/l	98
14) Acrylonitrile	5.551	53	1011746	214.163	ug/l	99
15) Acetone	4.281	58	285046	223.532	ug/l	94
16) Carbon Disulfide	4.534	76	817288	49.247	ug/l	99
17) Allyl chloride	4.840	41	513854	42.272	ug/l	85
18) Methylene Chloride	5.092	84	371061	49.502	ug/l	97
19) trans-1,2-Dichloroethene	5.598	96	336764	51.743	ug/l	96
20) Diisopropyl ether	6.492	45	1071066	43.079	ug/l	95
21) 1,1-Dichloroethane	6.386	63	635001	47.476	ug/l	97
22) cis-1,2-Dichloroethene	7.322	96	403845	51.105	ug/l	99
23) tert-Butyl Alcohol	5.363	59	351475	202.513	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	1132508	48.513	ug/l	92
25) Chloroform	7.816	83	644960	49.641	ug/l	99
26) Cyclohexane	8.092	56	565731	46.919	ug/l #	98
29) 1,1-Dichloropropene	8.216	75	490697	49.958	ug/l	98
30) 2-Butanone	7.328	43	1347051	201.887	ug/l	98
31) 2,2-Dichloropropane	7.322	77	552713	57.789	ug/l	100
32) 1,1,1-Trichloroethane	8.010	97	566548	49.583	ug/l	98
33) Carbon Tetrachloride	8.204	117	477971	49.150	ug/l	97
34) Benzene	8.457	78	1495674	49.143	ug/l	96
35) Methacrylonitrile	7.633	41	249325	38.517	ug/l	96
36) 1,2-Dichloroethane	8.528	62	516190	47.779	ug/l #	95
37) Trichloroethene	9.216	130	385498	52.263	ug/l	95
38) Methylcyclohexane	9.457	83	624324	52.288	ug/l	97
39) 1,2-Dichloropropane	9.486	63	373751	46.893	ug/l	99
40) Dibromomethane	9.575	93	254012	49.685	ug/l	88
41) Bromodichloromethane	9.757	83	509930	49.614	ug/l	95
42) Vinyl Acetate	6.428	43	4667682	213.202	ug/l	95

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43) Ethyl Acetate	7.404	43	523711	40.329	ug/l	99
44) Isopropyl Acetate	8.557	43	816275	39.267	ug/l	93
45) 1,4-Dioxane	9.563	88	168925	890.380	ug/l	95
46) Methyl methacrylate	9.551	41	369253	40.031	ug/l	85
47) n-amyl Acetate	12.380	43	583126	42.353	ug/l	94
48) t-1,3-Dichloropropene	10.716	75	558943	50.014	ug/l	99
49) cis-1,3-Dichloropropene	10.186	75	609504	50.228	ug/l #	87
50) 1,1,2-Trichloroethane	10.892	97	380737	50.716	ug/l	99
51) Ethyl methacrylate	10.757	69	594691	47.267	ug/l	86
52) 1,3-Dichloropropane	11.039	76	643983	48.163	ug/l	100
53) Dibromochloromethane	11.233	129	398598	51.247	ug/l	99
54) 1,2-Dibromoethane	11.339	107	393196	50.731	ug/l	96
55) 2-Chloroethyl vinyl ether	10.039	63	839447	220.111	ug/l	98
56) Bromoform	12.451	173	306220	50.864	ug/l #	100
58) 4-Methyl-2-Pentanone	10.327	43	2669449	209.471	ug/l	93
59) 2-Hexanone	11.080	43	1936031	204.553	ug/l	91
61) Tetrachloroethene	10.974	164	329757	52.862	ug/l	91
62) Toluene	10.504	91	1669654	51.950	ug/l	97
64) Chlorobenzene	11.763	112	1023471	52.395	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.839	131	372781	51.449	ug/l	98
66) Ethyl Benzene	11.839	91	1836605	52.129	ug/l	97
67) m/p-Xylenes	11.951	106	1423492	106.250	ug/l	97
68) o-Xylene	12.274	106	699183	52.244	ug/l	98
69) Styrene	12.292	104	1117483	52.970	ug/l	97
70) Isopropylbenzene	12.574	105	1785296	52.632	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.821	83	578153	49.746	ug/l	98
72) 1,2,3-Trichloropropane	12.874	75	502880m	47.094	ug/l	
73) Bromobenzene	12.857	156	429677	53.817	ug/l	96
74) n-propylbenzene	12.915	91	1978114	53.159	ug/l	98
75) 2-Chlorotoluene	13.004	91	1202498	51.460	ug/l	100
76) 1,3,5-Trimethylbenzene	13.057	105	1437478	53.231	ug/l	96
77) t-1,4-Dichloro-2-butene	12.621	75	182085	52.485	ug/l	90
78) 4-Chlorotoluene	13.098	91	1137183	52.428	ug/l	99
79) tert-butylbenzene	13.315	119	1300655	52.948	ug/l	94
80) 1,2,4-Trimethylbenzene	13.363	105	1401252m	53.852	ug/l	
81) sec-Butylbenzene	13.498	105	1754673	53.489	ug/l	97
82) p-Isopropyltoluene	13.610	119	1443523	54.821	ug/l	97
83) 1,3-Dichlorobenzene	13.610	146	715642	55.054	ug/l	98
84) 1,4-Dichlorobenzene	13.692	146	682129	54.953	ug/l	98
85) n-Butylbenzene	13.939	91	1084705	55.418	ug/l	96
86) Hexachloroethane	14.204	117	266298	52.940	ug/l	81
87) 1,2-Dichlorobenzene	13.986	146	694933	54.918	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.598	75	105552	48.309	ug/l	86
89) 1,2,4-Trichlorobenzene	15.257	180	328953	56.549	ug/l	97
90) Hexachlorobutadiene	15.362	225	195468	58.517	ug/l	99
91) Naphthalene	15.498	128	959916	54.004	ug/l	98
92) 1,2,3-Trichlorobenzene	15.698	180	327315	55.311	ug/l	98

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

