1. Frequency Stability

1.1 GSM850

1.1.1 Test Result

Band: GSM850							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	824.2	20	3.3	-14.270	-0.0173	-2.5 to 2.5	Pass
			3.6	-13.947	-0.0169	-2.5 to 2.5	Pass
			4.2	-13.237	-0.0161	-2.5 to 2.5	Pass
		-30	3.6	-14.077	-0.0171	-2.5 to 2.5	Pass
		-20	3.6	-14.012	-0.0170	-2.5 to 2.5	Pass
		-10	3.6	-18.855	-0.0229	-2.5 to 2.5	Pass
		0	3.6	-15.626	-0.0190	-2.5 to 2.5	Pass
		10	3.6	-16.304	-0.0198	-2.5 to 2.5	Pass
		30	3.6	-14.496	-0.0176	-2.5 to 2.5	Pass
		40	3.6	-15.013	-0.0182	-2.5 to 2.5	Pass
		50	3.6	-12.721	-0.0154	-2.5 to 2.5	Pass
	836.6	20	3.3	-10.719	-0.0128	-2.5 to 2.5	Pass
			3.6	-13.528	-0.0162	-2.5 to 2.5	Pass
			4.2	-15.529	-0.0186	-2.5 to 2.5	Pass
		-30	3.6	-10.590	-0.0127	-2.5 to 2.5	Pass
		-20	3.6	-10.783	-0.0129	-2.5 to 2.5	Pass
		-10	3.6	-19.113	-0.0228	-2.5 to 2.5	Pass
		0	3.6	-16.401	-0.0196	-2.5 to 2.5	Pass
		10	3.6	-14.787	-0.0177	-2.5 to 2.5	Pass
		30	3.6	-9.524	-0.0114	-2.5 to 2.5	Pass
		40	3.6	-13.076	-0.0156	-2.5 to 2.5	Pass
		50	3.6	-15.497	-0.0185	-2.5 to 2.5	Pass
	848.8	20	3.3	-13.947	-0.0164	-2.5 to 2.5	Pass
			3.6	-17.822	-0.0210	-2.5 to 2.5	Pass
			4.2	-14.690	-0.0173	-2.5 to 2.5	Pass
		-30	3.6	-18.048	-0.0213	-2.5 to 2.5	Pass
		-20	3.6	-16.369	-0.0193	-2.5 to 2.5	Pass
		-10	3.6	-17.338	-0.0204	-2.5 to 2.5	Pass
		0	3.6	-14.690	-0.0173	-2.5 to 2.5	Pass
		10	3.6	-11.591	-0.0137	-2.5 to 2.5	Pass
		30	3.6	-18.629	-0.0219	-2.5 to 2.5	Pass
		40	3.6	-11.461	-0.0135	-2.5 to 2.5	Pass
		50	3.6	-8.620	-0.0102	-2.5 to 2.5	Pass
EGPRS	824.2	20	3.3	-6.619	-0.0080	-2.5 to 2.5	Pass
			3.6	-4.003	-0.0049	-2.5 to 2.5	Pass
			4.2	-1.743	-0.0021	-2.5 to 2.5	Pass
		-30	3.6	-0.710	-0.0009	-2.5 to 2.5	Pass
		-20	3.6	-1.195	-0.0014	-2.5 to 2.5	Pass
		-10	3.6	-9.686	-0.0118	-2.5 to 2.5	Pass
		0	3.6	-3.067	-0.0037	-2.5 to 2.5	Pass
		10	3.6	-7.393	-0.0090	-2.5 to 2.5	Pass
		30	3.6	-7.167	-0.0087	-2.5 to 2.5	Pass
		40	3.6	-3.132	-0.0038	-2.5 to 2.5	Pass
		50	3.6	-3.196	-0.0039	-2.5 to 2.5	Pass
	836.6	20	3.3	-7.006	-0.0084	-2.5 to 2.5	Pass
			3.6	-8.749	-0.0105	-2.5 to 2.5	Pass

Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Result	Limit	Verdict
			4.2	-11.300	-0.0135	-2.5 to 2.5	Pass
		-30	3.6	-9.234	-0.0110	-2.5 to 2.5	Pass
		-20	3.6	-6.167	-0.0074	-2.5 to 2.5	Pass
		-10	3.6	-6.102	-0.0073	-2.5 to 2.5	Pass
		0	3.6	-8.201	-0.0098	-2.5 to 2.5	Pass
		10	3.6	-9.201	-0.0110	-2.5 to 2.5	Pass
		30	3.6	-10.783	-0.0129	-2.5 to 2.5	Pass
		40	3.6	-8.233	-0.0098	-2.5 to 2.5	Pass
		50	3.6	-10.202	-0.0122	-2.5 to 2.5	Pass
	848.8		3.3	-11.849	-0.0140	-2.5 to 2.5	Pass
		20	3.6	-11.881	-0.0140	-2.5 to 2.5	Pass
			4.2	-8.394	-0.0099	-2.5 to 2.5	Pass
		-30	3.6	1.614	0.0019	-2.5 to 2.5	Pass
		-20	3.6	-9.363	-0.0110	-2.5 to 2.5	Pass
		-10	3.6	-12.656	-0.0149	-2.5 to 2.5	Pass
		0	3.6	-3.067	-0.0036	-2.5 to 2.5	Pass
		10	3.6	-4.294	-0.0051	-2.5 to 2.5	Pass
		30	3.6	-6.167	-0.0073	-2.5 to 2.5	Pass
		40	3.6	-2.551	-0.0030	-2.5 to 2.5	Pass
		50	3.6	-0.420	-0.0005	-2.5 to 2.5	Pass

2. Frequency Stability

2.1 PCS1900

2.1.1 Test Result

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm) Result	Freq. vs. Rated (ppm) Limit	Verdict
GPRS	1850.2	20	3.3	-19.985	-0.0108	-2.5 to 2.5	Pass
			3.6	-16.111	-0.0087	-2.5 to 2.5	Pass
			4.2	-22.536	-0.0122	-2.5 to 2.5	Pass
		-30	3.6	-27.056	-0.0146	-2.5 to 2.5	Pass
		-20	3.6	-30.252	-0.0164	-2.5 to 2.5	Pass
		-10	3.6	-23.310	-0.0126	-2.5 to 2.5	Pass
		0	3.6	-20.631	-0.0112	-2.5 to 2.5	Pass
		10	3.6	-21.115	-0.0114	-2.5 to 2.5	Pass
		30	3.6	-16.498	-0.0089	-2.5 to 2.5	Pass
		40	3.6	-23.698	-0.0128	-2.5 to 2.5	Pass
		50	3.6	-3.681	-0.0020	-2.5 to 2.5	Pass
	1880	20	3.3	-9.621	-0.0051	-2.5 to 2.5	Pass
			3.6	-7.329	-0.0039	-2.5 to 2.5	Pass
			4.2	-12.430	-0.0066	-2.5 to 2.5	Pass
		-30	3.6	-18.790	-0.0100	-2.5 to 2.5	Pass
		-20	3.6	-21.470	-0.0114	-2.5 to 2.5	Pass
		-10	3.6	-13.915	-0.0074	-2.5 to 2.5	Pass
		0	3.6	-19.533	-0.0104	-2.5 to 2.5	Pass
		10	3.6	-13.980	-0.0074	-2.5 to 2.5	Pass
		30	3.6	-18.952	-0.0101	-2.5 to 2.5	Pass
		40	3.6	-11.720	-0.0062	-2.5 to 2.5	Pass
		50	3.6	-17.660	-0.0094	-2.5 to 2.5	Pass
	1909.8	20	3.3	-2.292	-0.0012	-2.5 to 2.5	Pass
			3.6	-29.542	-0.0155	-2.5 to 2.5	Pass

			4.2	-8.685	-0.0045	-2.5 to 2.5	Pass
		-30	3.6	-12.947	-0.0068	-2.5 to 2.5	Pass
		-20	3.6	-22.310	-0.0117	-2.5 to 2.5	Pass
		-10	3.6	-14.335	-0.0075	-2.5 to 2.5	Pass
		0	3.6	-14.722	-0.0077	-2.5 to 2.5	Pass
		10	3.6	-12.398	-0.0065	-2.5 to 2.5	Pass
		30	3.6	-16.660	-0.0087	-2.5 to 2.5	Pass
		40	3.6	-4.778	-0.0025	-2.5 to 2.5	Pass
		50	3.6	-11.978	-0.0063	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.3	-15.982	-0.0086	-2.5 to 2.5	Pass
			3.6	-14.173	-0.0077	-2.5 to 2.5	Pass
			4.2	-3.196	-0.0017	-2.5 to 2.5	Pass
		-30	3.6	-6.037	-0.0033	-2.5 to 2.5	Pass
		-20	3.6	-8.136	-0.0044	-2.5 to 2.5	Pass
		-10	3.6	-9.847	-0.0053	-2.5 to 2.5	Pass
		0	3.6	-23.117	-0.0125	-2.5 to 2.5	Pass
		10	3.6	-22.406	-0.0121	-2.5 to 2.5	Pass
		30	3.6	-13.947	-0.0075	-2.5 to 2.5	Pass
		40	3.6	-15.982	-0.0086	-2.5 to 2.5	Pass
		50	3.6	-12.204	-0.0066	-2.5 to 2.5	Pass
	1880	20	3.3	-12.430	-0.0066	-2.5 to 2.5	Pass
			3.6	-7.329	-0.0039	-2.5 to 2.5	Pass
			4.2	-1.388	-0.0007	-2.5 to 2.5	Pass
		-30	3.6	-2.421	-0.0013	-2.5 to 2.5	Pass
		-20	3.6	-11.332	-0.0060	-2.5 to 2.5	Pass
		-10	3.6	-3.681	-0.0020	-2.5 to 2.5	Pass
		0	3.6	6.070	0.0032	-2.5 to 2.5	Pass
		10	3.6	-3.551	-0.0019	-2.5 to 2.5	Pass
		30	3.6	-0.032	0.0000	-2.5 to 2.5	Pass
		40	3.6	-6.005	-0.0032	-2.5 to 2.5	Pass
		50	3.6	-4.520	-0.0024	-2.5 to 2.5	Pass
	1909.8	20	3.3	-7.587	-0.0040	-2.5 to 2.5	Pass
			3.6	-2.970	-0.0016	-2.5 to 2.5	Pass
			4.2	-0.775	-0.0004	-2.5 to 2.5	Pass
		-30	3.6	-4.811	-0.0025	-2.5 to 2.5	Pass
		-20	3.6	-9.944	-0.0052	-2.5 to 2.5	Pass
		-10	3.6	-9.169	-0.0048	-2.5 to 2.5	Pass
		0	3.6	-12.139	-0.0064	-2.5 to 2.5	Pass
		10	3.6	-13.689	-0.0072	-2.5 to 2.5	Pass
		30	3.6	-10.654	-0.0056	-2.5 to 2.5	Pass
		40	3.6	-10.557	-0.0055	-2.5 to 2.5	Pass
		50	3.6	-9.976	-0.0052	-2.5 to 2.5	Pass