

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	3.27	-9.008	-0.0109	-2.5 to 2.5	Pass		
			3.85	-14.948	-0.0181	-2.5 to 2.5	Pass		
			4.43	-10.913	-0.0132	-2.5 to 2.5	Pass		
			-30	3.85	-15.142	-0.0184	-2.5 to 2.5	Pass	
			-20	3.85	-16.014	-0.0194	-2.5 to 2.5	Pass	
			-10	3.85	-17.273	-0.0210	-2.5 to 2.5	Pass	
			0	3.85	-14.303	-0.0174	-2.5 to 2.5	Pass	
			10	3.85	-9.879	-0.0120	-2.5 to 2.5	Pass	
			30	3.85	-8.943	-0.0109	-2.5 to 2.5	Pass	
			40	3.85	-11.009	-0.0134	-2.5 to 2.5	Pass	
		50	3.85	-12.591	-0.0153	-2.5 to 2.5	Pass		
	836.6		3.27	-8.846	-0.0106	-2.5 to 2.5	Pass		
			20	3.85	-7.297	-0.0087	-2.5 to 2.5	Pass	
			4.43	-7.135	-0.0085	-2.5 to 2.5	Pass		
			-30	3.85	-11.300	-0.0135	-2.5 to 2.5	Pass	
			-20	3.85	-9.395	-0.0112	-2.5 to 2.5	Pass	
			-10	3.85	-6.651	-0.0080	-2.5 to 2.5	Pass	
			0	3.85	-6.070	-0.0073	-2.5 to 2.5	Pass	
			10	3.85	-9.686	-0.0116	-2.5 to 2.5	Pass	
			30	3.85	-9.072	-0.0108	-2.5 to 2.5	Pass	
			40	3.85	-4.940	-0.0059	-2.5 to 2.5	Pass	
	848.8	3.85	-7.167	-0.0086	-2.5 to 2.5	Pass			
		20	3.27	-10.073	-0.0119	-2.5 to 2.5	Pass		
		3.85	-12.043	-0.0142	-2.5 to 2.5	Pass			
		4.43	-14.561	-0.0172	-2.5 to 2.5	Pass			
		-30	3.85	-16.563	-0.0195	-2.5 to 2.5	Pass		
EGPRS	824.2	20	-20	3.85	-8.749	-0.0103	-2.5 to 2.5	Pass	
			-10	3.85	-6.167	-0.0073	-2.5 to 2.5	Pass	
			0	3.85	-10.009	-0.0118	-2.5 to 2.5	Pass	
			10	3.85	-13.786	-0.0162	-2.5 to 2.5	Pass	
			30	3.85	-9.783	-0.0115	-2.5 to 2.5	Pass	
			40	3.85	-14.044	-0.0165	-2.5 to 2.5	Pass	
			50	3.85	-9.072	-0.0107	-2.5 to 2.5	Pass	
		50	3.27	-13.915	-0.0169	-2.5 to 2.5	Pass		
			3.85	-17.757	-0.0215	-2.5 to 2.5	Pass		
			4.43	-13.980	-0.0170	-2.5 to 2.5	Pass		
			-30	3.85	-16.466	-0.0200	-2.5 to 2.5	Pass	
			-20	3.85	-14.884	-0.0181	-2.5 to 2.5	Pass	
	836.6	20	-10	3.85	-11.203	-0.0136	-2.5 to 2.5	Pass	
			0	3.85	-12.269	-0.0149	-2.5 to 2.5	Pass	
			10	3.85	-13.269	-0.0161	-2.5 to 2.5	Pass	
			30	3.85	-11.526	-0.0140	-2.5 to 2.5	Pass	
			40	3.85	-10.202	-0.0124	-2.5 to 2.5	Pass	
		50	3.85	-10.331	-0.0125	-2.5 to 2.5	Pass		
			3.27	-10.719	-0.0128	-2.5 to 2.5	Pass		
			3.85	-10.461	-0.0125	-2.5 to 2.5	Pass		

		4.43	-13.754	-0.0164	-2.5 to 2.5	Pass	
		-30	3.85	-15.142	-0.0181	-2.5 to 2.5	Pass
		-20	3.85	-15.917	-0.0190	-2.5 to 2.5	Pass
		-10	3.85	-15.433	-0.0184	-2.5 to 2.5	Pass
		0	3.85	-16.982	-0.0203	-2.5 to 2.5	Pass
		10	3.85	-14.270	-0.0171	-2.5 to 2.5	Pass
		30	3.85	-13.011	-0.0156	-2.5 to 2.5	Pass
		40	3.85	-13.851	-0.0166	-2.5 to 2.5	Pass
		50	3.85	-14.367	-0.0172	-2.5 to 2.5	Pass
	848.8		3.27	-10.719	-0.0126	-2.5 to 2.5	Pass
		20	3.85	-12.527	-0.0148	-2.5 to 2.5	Pass
			4.43	-9.847	-0.0116	-2.5 to 2.5	Pass
		-30	3.85	-14.109	-0.0166	-2.5 to 2.5	Pass
		-20	3.85	-13.915	-0.0164	-2.5 to 2.5	Pass
		-10	3.85	-12.333	-0.0145	-2.5 to 2.5	Pass
		0	3.85	-14.755	-0.0174	-2.5 to 2.5	Pass
		10	3.85	-17.499	-0.0206	-2.5 to 2.5	Pass
		30	3.85	-17.144	-0.0202	-2.5 to 2.5	Pass
		40	3.85	-15.691	-0.0185	-2.5 to 2.5	Pass
		50	3.85	-16.369	-0.0193	-2.5 to 2.5	Pass

2. Frequency Stability

2.1 PCS1900

2.1.1 Test Result

Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
					Result	Limit		
GPRS	1850.2	20	3.27	-14.270	-0.0077	-2.5 to 2.5	Pass	
			3.85	-5.811	-0.0031	-2.5 to 2.5	Pass	
			4.43	-12.172	-0.0066	-2.5 to 2.5	Pass	
			-30	3.85	-11.720	-0.0063	-2.5 to 2.5	Pass
			-20	3.85	-13.657	-0.0074	-2.5 to 2.5	Pass
			-10	3.85	-20.986	-0.0113	-2.5 to 2.5	Pass
			0	3.85	-3.745	-0.0020	-2.5 to 2.5	Pass
			10	3.85	-6.393	-0.0035	-2.5 to 2.5	Pass
			30	3.85	-10.138	-0.0055	-2.5 to 2.5	Pass
			40	3.85	-0.226	-0.0001	-2.5 to 2.5	Pass
			50	3.85	-8.943	-0.0048	-2.5 to 2.5	Pass
		1880	3.27	-3.358	-0.0018	-2.5 to 2.5	Pass	
			3.85	-8.394	-0.0045	-2.5 to 2.5	Pass	
			4.43	-2.034	-0.0011	-2.5 to 2.5	Pass	
			-30	3.85	-3.681	-0.0020	-2.5 to 2.5	Pass
			-20	3.85	-8.556	-0.0046	-2.5 to 2.5	Pass
			-10	3.85	-9.363	-0.0050	-2.5 to 2.5	Pass
			0	3.85	-12.721	-0.0068	-2.5 to 2.5	Pass
			10	3.85	-20.792	-0.0111	-2.5 to 2.5	Pass
			30	3.85	-20.502	-0.0109	-2.5 to 2.5	Pass
			40	3.85	2.131	0.0011	-2.5 to 2.5	Pass
			50	3.85	2.389	0.0013	-2.5 to 2.5	Pass
	1909.8	20	3.27	-8.265	-0.0043	-2.5 to 2.5	Pass	
			3.85	-7.458	-0.0039	-2.5 to 2.5	Pass	

		4.43	-5.844	-0.0031	-2.5 to 2.5	Pass	
		-30	3.85	-5.908	-0.0031	-2.5 to 2.5	Pass
		-20	3.85	-6.619	-0.0035	-2.5 to 2.5	Pass
		-10	3.85	-9.653	-0.0051	-2.5 to 2.5	Pass
		0	3.85	-5.489	-0.0029	-2.5 to 2.5	Pass
		10	3.85	-1.356	-0.0007	-2.5 to 2.5	Pass
		30	3.85	-10.170	-0.0053	-2.5 to 2.5	Pass
		40	3.85	1.033	0.0005	-2.5 to 2.5	Pass
		50	3.85	-2.486	-0.0013	-2.5 to 2.5	Pass
EGPRS	1850.2		3.27	-19.178	-0.0104	-2.5 to 2.5	Pass
		20	3.85	5.908	0.0032	-2.5 to 2.5	Pass
			4.43	3.745	0.0020	-2.5 to 2.5	Pass
		-30	3.85	8.717	0.0047	-2.5 to 2.5	Pass
		-20	3.85	3.229	0.0017	-2.5 to 2.5	Pass
		-10	3.85	-11.365	-0.0061	-2.5 to 2.5	Pass
		0	3.85	-0.355	-0.0002	-2.5 to 2.5	Pass
		10	3.85	-0.194	-0.0001	-2.5 to 2.5	Pass
		30	3.85	0.226	0.0001	-2.5 to 2.5	Pass
		40	3.85	-9.944	-0.0054	-2.5 to 2.5	Pass
		50	3.85	-3.971	-0.0021	-2.5 to 2.5	Pass
			3.27	-0.613	-0.0003	-2.5 to 2.5	Pass
		20	3.85	12.430	0.0066	-2.5 to 2.5	Pass
			4.43	13.560	0.0072	-2.5 to 2.5	Pass
EGPRS	1880	-30	3.85	-9.621	-0.0051	-2.5 to 2.5	Pass
		-20	3.85	-6.425	-0.0034	-2.5 to 2.5	Pass
		-10	3.85	6.683	0.0036	-2.5 to 2.5	Pass
		0	3.85	-4.488	-0.0024	-2.5 to 2.5	Pass
		10	3.85	-1.291	-0.0007	-2.5 to 2.5	Pass
		30	3.85	6.425	0.0034	-2.5 to 2.5	Pass
		40	3.85	-10.041	-0.0053	-2.5 to 2.5	Pass
		50	3.85	-0.839	-0.0004	-2.5 to 2.5	Pass
			3.27	-6.199	-0.0032	-2.5 to 2.5	Pass
		20	3.85	10.331	0.0054	-2.5 to 2.5	Pass
			4.43	-3.616	-0.0019	-2.5 to 2.5	Pass
		-30	3.85	-2.583	-0.0014	-2.5 to 2.5	Pass
		-20	3.85	-13.883	-0.0073	-2.5 to 2.5	Pass
		-10	3.85	-5.230	-0.0027	-2.5 to 2.5	Pass
		0	3.85	-4.262	-0.0022	-2.5 to 2.5	Pass
		10	3.85	5.456	0.0029	-2.5 to 2.5	Pass
		30	3.85	-10.428	-0.0055	-2.5 to 2.5	Pass
		40	3.85	7.329	0.0038	-2.5 to 2.5	Pass
		50	3.85	3.035	0.0016	-2.5 to 2.5	Pass