

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	25.344	0.0307	-2.5 to 2.5	Pass
			3.85	30.123	0.0365	-2.5 to 2.5	Pass
			4.43	29.994	0.0364	-2.5 to 2.5	Pass
		-30	3.85	29.348	0.0356	-2.5 to 2.5	Pass
		-20	3.85	25.215	0.0306	-2.5 to 2.5	Pass
		-10	3.85	28.508	0.0346	-2.5 to 2.5	Pass
		0	3.85	28.928	0.0351	-2.5 to 2.5	Pass
		10	3.85	25.118	0.0305	-2.5 to 2.5	Pass
		30	3.85	22.762	0.0276	-2.5 to 2.5	Pass
		40	3.85	29.671	0.0360	-2.5 to 2.5	Pass
	50	3.85	28.799	0.0349	-2.5 to 2.5	Pass	
	836.6	20	3.27	12.139	0.0145	-2.5 to 2.5	Pass
			3.85	7.684	0.0092	-2.5 to 2.5	Pass
			4.43	13.302	0.0159	-2.5 to 2.5	Pass
		-30	3.85	7.652	0.0091	-2.5 to 2.5	Pass
		-20	3.85	11.494	0.0137	-2.5 to 2.5	Pass
		-10	3.85	13.947	0.0167	-2.5 to 2.5	Pass
		0	3.85	8.233	0.0098	-2.5 to 2.5	Pass
		10	3.85	12.075	0.0144	-2.5 to 2.5	Pass
		30	3.85	5.489	0.0066	-2.5 to 2.5	Pass
		40	3.85	12.043	0.0144	-2.5 to 2.5	Pass
	50	3.85	10.202	0.0122	-2.5 to 2.5	Pass	
	848.8	20	3.27	-12.882	-0.0152	-2.5 to 2.5	Pass
			3.85	-10.170	-0.0120	-2.5 to 2.5	Pass
			4.43	-10.267	-0.0121	-2.5 to 2.5	Pass
		-30	3.85	-10.396	-0.0122	-2.5 to 2.5	Pass
		-20	3.85	-8.749	-0.0103	-2.5 to 2.5	Pass
		-10	3.85	-14.496	-0.0171	-2.5 to 2.5	Pass
		0	3.85	-14.044	-0.0165	-2.5 to 2.5	Pass
		10	3.85	-6.263	-0.0074	-2.5 to 2.5	Pass
30		3.85	-12.947	-0.0153	-2.5 to 2.5	Pass	
40		3.85	-8.233	-0.0097	-2.5 to 2.5	Pass	
50	3.85	-7.587	-0.0089	-2.5 to 2.5	Pass		
EGPRS	824.2	20	3.27	15.917	0.0193	-2.5 to 2.5	Pass
			3.85	24.763	0.0300	-2.5 to 2.5	Pass
			4.43	20.243	0.0246	-2.5 to 2.5	Pass
		-30	3.85	14.206	0.0172	-2.5 to 2.5	Pass
		-20	3.85	25.183	0.0306	-2.5 to 2.5	Pass
		-10	3.85	19.242	0.0233	-2.5 to 2.5	Pass
		0	3.85	20.082	0.0244	-2.5 to 2.5	Pass
		10	3.85	19.081	0.0232	-2.5 to 2.5	Pass
		30	3.85	19.372	0.0235	-2.5 to 2.5	Pass
		40	3.85	23.730	0.0288	-2.5 to 2.5	Pass
	50	3.85	22.697	0.0275	-2.5 to 2.5	Pass	
	836.6	20	3.27	12.785	0.0153	-2.5 to 2.5	Pass
			3.85	10.719	0.0128	-2.5 to 2.5	Pass
			4.43	9.912	0.0118	-2.5 to 2.5	Pass
-30		3.85	11.203	0.0134	-2.5 to 2.5	Pass	
-20	3.85	9.621	0.0115	-2.5 to 2.5	Pass		

		-10	3.85	12.721	0.0152	-2.5 to 2.5	Pass
		0	3.85	8.459	0.0101	-2.5 to 2.5	Pass
		10	3.85	13.980	0.0167	-2.5 to 2.5	Pass
		30	3.85	10.073	0.0120	-2.5 to 2.5	Pass
		40	3.85	14.561	0.0174	-2.5 to 2.5	Pass
	50	3.85	10.202	0.0122	-2.5 to 2.5	Pass	
	848.8	20	3.27	-8.814	-0.0104	-2.5 to 2.5	Pass
			3.85	-6.425	-0.0076	-2.5 to 2.5	Pass
			4.43	-10.783	-0.0127	-2.5 to 2.5	Pass
		-30	3.85	-14.399	-0.0170	-2.5 to 2.5	Pass
		-20	3.85	-15.949	-0.0188	-2.5 to 2.5	Pass
		-10	3.85	-9.815	-0.0116	-2.5 to 2.5	Pass
		0	3.85	-8.168	-0.0096	-2.5 to 2.5	Pass
		10	3.85	-15.982	-0.0188	-2.5 to 2.5	Pass
		30	3.85	-12.656	-0.0149	-2.5 to 2.5	Pass
		40	3.85	-17.919	-0.0211	-2.5 to 2.5	Pass
		50	3.85	-12.850	-0.0151	-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)		Verdict
					Result	Limit	
GPRS	1850.2	20	3.27	-5.456	-0.0029	-2.5 to 2.5	Pass
			3.85	-3.648	-0.0020	-2.5 to 2.5	Pass
			4.43	-6.715	-0.0036	-2.5 to 2.5	Pass
		-30	3.85	-5.359	-0.0029	-2.5 to 2.5	Pass
		-20	3.85	-13.269	-0.0072	-2.5 to 2.5	Pass
		-10	3.85	-14.658	-0.0079	-2.5 to 2.5	Pass
		0	3.85	-8.265	-0.0045	-2.5 to 2.5	Pass
		10	3.85	-5.198	-0.0028	-2.5 to 2.5	Pass
		30	3.85	-7.006	-0.0038	-2.5 to 2.5	Pass
		40	3.85	-9.815	-0.0053	-2.5 to 2.5	Pass
	50	3.85	-6.845	-0.0037	-2.5 to 2.5	Pass	
	1880	20	3.27	-59.341	-0.0316	-2.5 to 2.5	Pass
			3.85	-63.377	-0.0337	-2.5 to 2.5	Pass
			4.43	-54.531	-0.0290	-2.5 to 2.5	Pass
		-30	3.85	-52.561	-0.0280	-2.5 to 2.5	Pass
		-20	3.85	-50.721	-0.0270	-2.5 to 2.5	Pass
		-10	3.85	-66.638	-0.0354	-2.5 to 2.5	Pass
		0	3.85	-54.402	-0.0289	-2.5 to 2.5	Pass
		10	3.85	-51.173	-0.0272	-2.5 to 2.5	Pass
		30	3.85	-49.882	-0.0265	-2.5 to 2.5	Pass
		40	3.85	-62.441	-0.0332	-2.5 to 2.5	Pass
	50	3.85	-56.597	-0.0301	-2.5 to 2.5	Pass	
	1909.8	20	3.27	-51.464	-0.0269	-2.5 to 2.5	Pass
			3.85	-56.855	-0.0298	-2.5 to 2.5	Pass
			4.43	-56.048	-0.0293	-2.5 to 2.5	Pass
		-30	3.85	-57.243	-0.0300	-2.5 to 2.5	Pass
		-20	3.85	-58.986	-0.0309	-2.5 to 2.5	Pass
		-10	3.85	-54.983	-0.0288	-2.5 to 2.5	Pass
		0	3.85	-61.698	-0.0323	-2.5 to 2.5	Pass

		10	3.85	-54.660	-0.0286	-2.5 to 2.5	Pass
		30	3.85	-31.931	-0.0167	-2.5 to 2.5	Pass
		40	3.85	-51.948	-0.0272	-2.5 to 2.5	Pass
		50	3.85	-56.403	-0.0295	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.27	-1.162	-0.0006	-2.5 to 2.5	Pass
			3.85	4.036	0.0022	-2.5 to 2.5	Pass
			4.43	-0.226	-0.0001	-2.5 to 2.5	Pass
		-30	3.85	-0.291	-0.0002	-2.5 to 2.5	Pass
		-20	3.85	-0.678	-0.0004	-2.5 to 2.5	Pass
		-10	3.85	-0.194	-0.0001	-2.5 to 2.5	Pass
		0	3.85	1.162	0.0006	-2.5 to 2.5	Pass
		10	3.85	2.066	0.0011	-2.5 to 2.5	Pass
		30	3.85	-1.808	-0.0010	-2.5 to 2.5	Pass
		40	3.85	4.843	0.0026	-2.5 to 2.5	Pass
	50	3.85	4.488	0.0024	-2.5 to 2.5	Pass	
	1880	20	3.27	-59.987	-0.0319	-2.5 to 2.5	Pass
			3.85	-49.623	-0.0264	-2.5 to 2.5	Pass
			4.43	-57.985	-0.0308	-2.5 to 2.5	Pass
		-30	3.85	-50.560	-0.0269	-2.5 to 2.5	Pass
		-20	3.85	-45.717	-0.0243	-2.5 to 2.5	Pass
		-10	3.85	-51.496	-0.0274	-2.5 to 2.5	Pass
		0	3.85	-49.849	-0.0265	-2.5 to 2.5	Pass
		10	3.85	-49.462	-0.0263	-2.5 to 2.5	Pass
		30	3.85	-60.181	-0.0320	-2.5 to 2.5	Pass
		40	3.85	-48.364	-0.0257	-2.5 to 2.5	Pass
	50	3.85	-50.721	-0.0270	-2.5 to 2.5	Pass	
	1909.8	20	3.27	-53.207	-0.0279	-2.5 to 2.5	Pass
			3.85	-62.053	-0.0325	-2.5 to 2.5	Pass
			4.43	-60.116	-0.0315	-2.5 to 2.5	Pass
		-30	3.85	-34.384	-0.0180	-2.5 to 2.5	Pass
		-20	3.85	-50.624	-0.0265	-2.5 to 2.5	Pass
		-10	3.85	-40.422	-0.0212	-2.5 to 2.5	Pass
		0	3.85	-62.409	-0.0327	-2.5 to 2.5	Pass
		10	3.85	-50.172	-0.0263	-2.5 to 2.5	Pass
30		3.85	-34.029	-0.0178	-2.5 to 2.5	Pass	
40		3.85	-29.025	-0.0152	-2.5 to 2.5	Pass	
50	3.85	-58.793	-0.0308	-2.5 to 2.5	Pass		