

## 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	-12.139	-0.0147	-2.5 to 2.5	Pass		
			3.85	-10.138	-0.0123	-2.5 to 2.5	Pass		
			4.43	-10.557	-0.0128	-2.5 to 2.5	Pass		
			-30	3.85	-8.749	-0.0106	-2.5 to 2.5	Pass	
			-20	3.85	-9.847	-0.0119	-2.5 to 2.5	Pass	
			-10	3.85	-10.977	-0.0133	-2.5 to 2.5	Pass	
			0	3.85	-7.329	-0.0089	-2.5 to 2.5	Pass	
			10	3.85	-9.718	-0.0118	-2.5 to 2.5	Pass	
			30	3.85	-7.426	-0.0090	-2.5 to 2.5	Pass	
			40	3.85	-16.886	-0.0205	-2.5 to 2.5	Pass	
		20	50	3.85	-11.881	-0.0144	-2.5 to 2.5	Pass	
	836.6		3.27	-12.139	-0.0145	-2.5 to 2.5	Pass		
			3.85	-8.394	-0.0100	-2.5 to 2.5	Pass		
			4.43	-11.817	-0.0141	-2.5 to 2.5	Pass		
			-30	3.85	-13.657	-0.0163	-2.5 to 2.5	Pass	
			-20	3.85	-12.495	-0.0149	-2.5 to 2.5	Pass	
			-10	3.85	-8.943	-0.0107	-2.5 to 2.5	Pass	
			0	3.85	-14.173	-0.0169	-2.5 to 2.5	Pass	
			10	3.85	-15.077	-0.0180	-2.5 to 2.5	Pass	
			30	3.85	-15.723	-0.0188	-2.5 to 2.5	Pass	
			40	3.85	-14.884	-0.0178	-2.5 to 2.5	Pass	
	20	50	3.85	-8.846	-0.0106	-2.5 to 2.5	Pass		
EGPRS		848.8		3.27	-8.588	-0.0101	-2.5 to 2.5	Pass	
				3.85	-8.362	-0.0099	-2.5 to 2.5	Pass	
				4.43	-7.652	-0.0090	-2.5 to 2.5	Pass	
				-30	3.85	-8.330	-0.0098	-2.5 to 2.5	Pass
				-20	3.85	-4.875	-0.0057	-2.5 to 2.5	Pass
				-10	3.85	-9.750	-0.0115	-2.5 to 2.5	Pass
				0	3.85	-6.005	-0.0071	-2.5 to 2.5	Pass
				10	3.85	-3.261	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-11.494	-0.0135	-2.5 to 2.5	Pass
				40	3.85	-8.588	-0.0101	-2.5 to 2.5	Pass
				50	3.85	-1.969	-0.0023	-2.5 to 2.5	Pass
	20	3.27	-6.328	-0.0077	-2.5 to 2.5	Pass			
		3.85	-2.615	-0.0032	-2.5 to 2.5	Pass			
		4.43	-5.230	-0.0063	-2.5 to 2.5	Pass			
		-30	3.85	-5.553	-0.0067	-2.5 to 2.5	Pass		
		-20	3.85	-4.552	-0.0055	-2.5 to 2.5	Pass		
		-10	3.85	-6.845	-0.0083	-2.5 to 2.5	Pass		
		0	3.85	-9.137	-0.0111	-2.5 to 2.5	Pass		
		10	3.85	-10.977	-0.0133	-2.5 to 2.5	Pass		
		30	3.85	-6.296	-0.0076	-2.5 to 2.5	Pass		
		40	3.85	-9.589	-0.0116	-2.5 to 2.5	Pass		
	20	50	3.85	-7.490	-0.0091	-2.5 to 2.5	Pass		
		3.27	-8.168	-0.0098	-2.5 to 2.5	Pass			
		3.85	-3.325	-0.0040	-2.5 to 2.5	Pass			

		4.43	-4.359	-0.0052	-2.5 to 2.5	Pass	
		-30	3.85	-5.876	-0.0070	-2.5 to 2.5	Pass
		-20	3.85	-6.393	-0.0076	-2.5 to 2.5	Pass
		-10	3.85	-9.266	-0.0111	-2.5 to 2.5	Pass
		0	3.85	-7.587	-0.0091	-2.5 to 2.5	Pass
		10	3.85	-7.103	-0.0085	-2.5 to 2.5	Pass
		30	3.85	-8.362	-0.0100	-2.5 to 2.5	Pass
		40	3.85	-6.845	-0.0082	-2.5 to 2.5	Pass
		50	3.85	-4.294	-0.0051	-2.5 to 2.5	Pass
	848.8		3.27	-7.813	-0.0092	-2.5 to 2.5	Pass
		20	3.85	-12.172	-0.0143	-2.5 to 2.5	Pass
			4.43	-10.525	-0.0124	-2.5 to 2.5	Pass
		-30	3.85	-12.817	-0.0151	-2.5 to 2.5	Pass
		-20	3.85	-11.591	-0.0137	-2.5 to 2.5	Pass
		-10	3.85	-10.202	-0.0120	-2.5 to 2.5	Pass
		0	3.85	-6.263	-0.0074	-2.5 to 2.5	Pass
		10	3.85	-10.590	-0.0125	-2.5 to 2.5	Pass
		30	3.85	-5.392	-0.0064	-2.5 to 2.5	Pass
		40	3.85	-7.006	-0.0083	-2.5 to 2.5	Pass
		50	3.85	-12.010	-0.0141	-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)	Band: PCS1900		Verdict	
					Result	Limit		
GPRS	1850.2	20	3.27	-24.150	-0.0131	-2.5 to 2.5	Pass	
			3.85	-26.830	-0.0145	-2.5 to 2.5	Pass	
			4.43	-33.900	-0.0183	-2.5 to 2.5	Pass	
			-30	3.85	-34.191	-0.0185	-2.5 to 2.5	Pass
			-20	3.85	-32.576	-0.0176	-2.5 to 2.5	Pass
			-10	3.85	-30.607	-0.0165	-2.5 to 2.5	Pass
			0	3.85	-27.475	-0.0148	-2.5 to 2.5	Pass
			10	3.85	-34.352	-0.0186	-2.5 to 2.5	Pass
			30	3.85	-27.023	-0.0146	-2.5 to 2.5	Pass
			40	3.85	-18.984	-0.0103	-2.5 to 2.5	Pass
			50	3.85	-24.408	-0.0132	-2.5 to 2.5	Pass
	1880	20	3.27	-24.505	-0.0130	-2.5 to 2.5	Pass	
			3.85	-22.406	-0.0119	-2.5 to 2.5	Pass	
			4.43	-18.468	-0.0098	-2.5 to 2.5	Pass	
		-30	3.85	-13.495	-0.0072	-2.5 to 2.5	Pass	
		-20	3.85	-16.595	-0.0088	-2.5 to 2.5	Pass	
	1909.8	20	-10	3.85	-20.824	-0.0111	-2.5 to 2.5	Pass
			0	3.85	-20.663	-0.0110	-2.5 to 2.5	Pass
			10	3.85	-13.883	-0.0074	-2.5 to 2.5	Pass
		20	30	3.85	-15.755	-0.0084	-2.5 to 2.5	Pass
			40	3.85	-15.174	-0.0081	-2.5 to 2.5	Pass
			50	3.85	-9.976	-0.0053	-2.5 to 2.5	Pass

		4.43	-19.856	-0.0104	-2.5 to 2.5	Pass	
		-30	3.85	-15.239	-0.0080	-2.5 to 2.5	Pass
		-20	3.85	-14.755	-0.0077	-2.5 to 2.5	Pass
		-10	3.85	-24.537	-0.0128	-2.5 to 2.5	Pass
		0	3.85	-20.405	-0.0107	-2.5 to 2.5	Pass
		10	3.85	-14.335	-0.0075	-2.5 to 2.5	Pass
		30	3.85	-23.246	-0.0122	-2.5 to 2.5	Pass
		40	3.85	-19.727	-0.0103	-2.5 to 2.5	Pass
		50	3.85	-15.982	-0.0084	-2.5 to 2.5	Pass
EGPRS	1850.2		3.27	-5.844	-0.0032	-2.5 to 2.5	Pass
		20	3.85	-5.715	-0.0031	-2.5 to 2.5	Pass
			4.43	1.485	0.0008	-2.5 to 2.5	Pass
		-30	3.85	-12.269	-0.0066	-2.5 to 2.5	Pass
		-20	3.85	-8.104	-0.0044	-2.5 to 2.5	Pass
		-10	3.85	-10.073	-0.0054	-2.5 to 2.5	Pass
		0	3.85	-15.142	-0.0082	-2.5 to 2.5	Pass
		10	3.85	-17.660	-0.0095	-2.5 to 2.5	Pass
		30	3.85	-11.946	-0.0065	-2.5 to 2.5	Pass
		40	3.85	-14.077	-0.0076	-2.5 to 2.5	Pass
		50	3.85	-17.176	-0.0093	-2.5 to 2.5	Pass
			3.27	-7.523	-0.0040	-2.5 to 2.5	Pass
		20	3.85	-4.552	-0.0024	-2.5 to 2.5	Pass
			4.43	-9.169	-0.0049	-2.5 to 2.5	Pass
	1880	-30	3.85	-14.625	-0.0078	-2.5 to 2.5	Pass
		-20	3.85	-7.361	-0.0039	-2.5 to 2.5	Pass
		-10	3.85	-16.304	-0.0087	-2.5 to 2.5	Pass
		0	3.85	-10.880	-0.0058	-2.5 to 2.5	Pass
		10	3.85	-18.500	-0.0098	-2.5 to 2.5	Pass
		30	3.85	-19.113	-0.0102	-2.5 to 2.5	Pass
		40	3.85	-22.148	-0.0118	-2.5 to 2.5	Pass
		50	3.85	-11.106	-0.0059	-2.5 to 2.5	Pass
			3.27	2.873	0.0015	-2.5 to 2.5	Pass
		20	3.85	-7.458	-0.0039	-2.5 to 2.5	Pass
	1909.8		4.43	-2.131	-0.0011	-2.5 to 2.5	Pass
		-30	3.85	-6.619	-0.0035	-2.5 to 2.5	Pass
		-20	3.85	-6.328	-0.0033	-2.5 to 2.5	Pass
		-10	3.85	-11.139	-0.0058	-2.5 to 2.5	Pass
		0	3.85	-10.783	-0.0056	-2.5 to 2.5	Pass
		10	3.85	-2.292	-0.0012	-2.5 to 2.5	Pass
		30	3.85	-11.300	-0.0059	-2.5 to 2.5	Pass
		40	3.85	-7.523	-0.0039	-2.5 to 2.5	Pass
		50	3.85	-8.104	-0.0042	-2.5 to 2.5	Pass