

1. Frequency Stability

1.1 Band2

1.1.1 Test Result

Band: 2							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	9.00	-0.358	-0.0002	-2.5 to 2.5	Pass
			12.00	2.146	0.0012	-2.5 to 2.5	Pass
			30.00	2.303	0.0012	-2.5 to 2.5	Pass
		-20	12.00	1.545	0.0008	-2.5 to 2.5	Pass
		-10	12.00	-1.044	-0.0006	-2.5 to 2.5	Pass
		0	12.00	-0.908	-0.0005	-2.5 to 2.5	Pass
		10	12.00	-1.152	-0.0006	-2.5 to 2.5	Pass
		30	12.00	2.761	0.0015	-2.5 to 2.5	Pass
		40	12.00	0.808	0.0004	-2.5 to 2.5	Pass
		50	12.00	2.196	0.0012	-2.5 to 2.5	Pass
		65	12.00	-1.338	-0.0007	-2.5 to 2.5	Pass
	1880	20	9.00	2.332	0.0012	-2.5 to 2.5	Pass
			12.00	-0.172	-0.0001	-2.5 to 2.5	Pass
			30.00	-0.744	-0.0004	-2.5 to 2.5	Pass
		-20	12.00	-1.237	-0.0007	-2.5 to 2.5	Pass
		-10	12.00	-1.302	-0.0007	-2.5 to 2.5	Pass
		0	12.00	-1.359	-0.0007	-2.5 to 2.5	Pass
		10	12.00	-0.758	-0.0004	-2.5 to 2.5	Pass
		30	12.00	-0.472	-0.0003	-2.5 to 2.5	Pass
		40	12.00	-1.009	-0.0005	-2.5 to 2.5	Pass
		50	12.00	-0.515	-0.0003	-2.5 to 2.5	Pass
		65	12.00	-0.837	-0.0004	-2.5 to 2.5	Pass
	1907.6	20	9.00	1.409	0.0007	-2.5 to 2.5	Pass
			12.00	1.416	0.0007	-2.5 to 2.5	Pass
			30.00	2.446	0.0013	-2.5 to 2.5	Pass
		-20	12.00	0.036	0.0000	-2.5 to 2.5	Pass
		-10	12.00	0.808	0.0004	-2.5 to 2.5	Pass
		0	12.00	1.166	0.0006	-2.5 to 2.5	Pass
		10	12.00	0.200	0.0001	-2.5 to 2.5	Pass
		30	12.00	-0.093	0.0000	-2.5 to 2.5	Pass
		40	12.00	0.687	0.0004	-2.5 to 2.5	Pass
		50	12.00	2.668	0.0014	-2.5 to 2.5	Pass
HSDPA	1852.4	20	9.00	5.078	0.0027	-2.5 to 2.5	Pass
			12.00	4.184	0.0023	-2.5 to 2.5	Pass
			30.00	4.685	0.0025	-2.5 to 2.5	Pass
		-20	12.00	4.284	0.0023	-2.5 to 2.5	Pass
		-10	12.00	2.732	0.0015	-2.5 to 2.5	Pass
		0	12.00	4.370	0.0024	-2.5 to 2.5	Pass
		10	12.00	6.287	0.0034	-2.5 to 2.5	Pass
		30	12.00	5.078	0.0027	-2.5 to 2.5	Pass
		40	12.00	8.583	0.0046	-2.5 to 2.5	Pass
		50	12.00	10.285	0.0056	-2.5 to 2.5	Pass
		65	12.00	11.280	0.0061	-2.5 to 2.5	Pass
	1880	20	9.00	13.790	0.0073	-2.5 to 2.5	Pass
			12.00	13.740	0.0073	-2.5 to 2.5	Pass

			30.00	15.185	0.0081	-2.5 to 2.5	Pass
		-20	12.00	12.345	0.0066	-2.5 to 2.5	Pass
		-10	12.00	15.635	0.0083	-2.5 to 2.5	Pass
		0	12.00	15.886	0.0084	-2.5 to 2.5	Pass
		10	12.00	15.635	0.0083	-2.5 to 2.5	Pass
		30	12.00	17.896	0.0095	-2.5 to 2.5	Pass
		40	12.00	15.457	0.0082	-2.5 to 2.5	Pass
		50	12.00	17.688	0.0094	-2.5 to 2.5	Pass
		65	12.00	16.451	0.0088	-2.5 to 2.5	Pass
		1907.6	20	9.00	13.611	0.0071	-2.5 to 2.5
	12.00			13.075	0.0069	-2.5 to 2.5	Pass
	30.00			13.998	0.0073	-2.5 to 2.5	Pass
	-20		12.00	13.947	0.0073	-2.5 to 2.5	Pass
	-10		12.00	15.543	0.0081	-2.5 to 2.5	Pass
	0		12.00	10.285	0.0054	-2.5 to 2.5	Pass
	10		12.00	5.314	0.0028	-2.5 to 2.5	Pass
	30		12.00	-0.744	-0.0004	-2.5 to 2.5	Pass
	40		12.00	2.782	0.0015	-2.5 to 2.5	Pass
	50		12.00	1.423	0.0007	-2.5 to 2.5	Pass
	65	12.00	1.316	0.0007	-2.5 to 2.5	Pass	
HSUPA	1852.4	20	9.00	-1.988	-0.0011	-2.5 to 2.5	Pass
			12.00	-2.532	-0.0014	-2.5 to 2.5	Pass
			30.00	-2.475	-0.0013	-2.5 to 2.5	Pass
		-20	12.00	-1.216	-0.0007	-2.5 to 2.5	Pass
		-10	12.00	-2.353	-0.0013	-2.5 to 2.5	Pass
		0	12.00	1.688	0.0009	-2.5 to 2.5	Pass
		10	12.00	2.546	0.0014	-2.5 to 2.5	Pass
		30	12.00	-2.804	-0.0015	-2.5 to 2.5	Pass
		40	12.00	-1.502	-0.0008	-2.5 to 2.5	Pass
		50	12.00	-3.934	-0.0021	-2.5 to 2.5	Pass
		65	12.00	-2.725	-0.0015	-2.5 to 2.5	Pass
		1880	20	9.00	8.562	0.0046	-2.5 to 2.5
	12.00			5.858	0.0031	-2.5 to 2.5	Pass
	30.00			8.054	0.0043	-2.5 to 2.5	Pass
	-20		12.00	8.655	0.0046	-2.5 to 2.5	Pass
	-10		12.00	8.898	0.0047	-2.5 to 2.5	Pass
	0		12.00	2.081	0.0011	-2.5 to 2.5	Pass
	10		12.00	4.928	0.0026	-2.5 to 2.5	Pass
	30		12.00	7.389	0.0039	-2.5 to 2.5	Pass
	40		12.00	4.942	0.0026	-2.5 to 2.5	Pass
	50		12.00	0.529	0.0003	-2.5 to 2.5	Pass
	65		12.00	2.038	0.0011	-2.5 to 2.5	Pass
	1907.6		20	9.00	-5.386	-0.0028	-2.5 to 2.5
		12.00		-0.343	-0.0002	-2.5 to 2.5	Pass
		30.00		-4.163	-0.0022	-2.5 to 2.5	Pass
		-20	12.00	-2.317	-0.0012	-2.5 to 2.5	Pass
		-10	12.00	-1.602	-0.0008	-2.5 to 2.5	Pass
		0	12.00	-4.435	-0.0023	-2.5 to 2.5	Pass
		10	12.00	-5.779	-0.0030	-2.5 to 2.5	Pass
		30	12.00	-3.440	-0.0018	-2.5 to 2.5	Pass
		40	12.00	-3.655	-0.0019	-2.5 to 2.5	Pass
		50	12.00	-4.156	-0.0022	-2.5 to 2.5	Pass
65		12.00	-4.363	-0.0023	-2.5 to 2.5	Pass	

2. Frequency Stability

2.1 Band4

2.1.1 Test Result

Band: 4							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	9.00	7.124	0.0042	-2.5 to 2.5	Pass
			12.00	5.400	0.0032	-2.5 to 2.5	Pass
			30.00	4.277	0.0025	-2.5 to 2.5	Pass
		-20	12.00	5.493	0.0032	-2.5 to 2.5	Pass
		-10	12.00	7.710	0.0045	-2.5 to 2.5	Pass
		0	12.00	5.765	0.0034	-2.5 to 2.5	Pass
		10	12.00	7.174	0.0042	-2.5 to 2.5	Pass
		30	12.00	6.409	0.0037	-2.5 to 2.5	Pass
		40	12.00	6.316	0.0037	-2.5 to 2.5	Pass
		50	12.00	6.902	0.0040	-2.5 to 2.5	Pass
		65	12.00	6.766	0.0040	-2.5 to 2.5	Pass
	1732.6	20	9.00	4.041	0.0023	-2.5 to 2.5	Pass
			12.00	5.736	0.0033	-2.5 to 2.5	Pass
			30.00	7.145	0.0041	-2.5 to 2.5	Pass
		-20	12.00	7.761	0.0045	-2.5 to 2.5	Pass
		-10	12.00	5.236	0.0030	-2.5 to 2.5	Pass
		0	12.00	9.634	0.0056	-2.5 to 2.5	Pass
		10	12.00	7.603	0.0044	-2.5 to 2.5	Pass
		30	12.00	7.310	0.0042	-2.5 to 2.5	Pass
		40	12.00	7.081	0.0041	-2.5 to 2.5	Pass
		50	12.00	8.125	0.0047	-2.5 to 2.5	Pass
		65	12.00	5.300	0.0031	-2.5 to 2.5	Pass
	1752.6	20	9.00	7.646	0.0044	-2.5 to 2.5	Pass
			12.00	9.227	0.0053	-2.5 to 2.5	Pass
			30.00	7.911	0.0045	-2.5 to 2.5	Pass
		-20	12.00	6.616	0.0038	-2.5 to 2.5	Pass
		-10	12.00	6.874	0.0039	-2.5 to 2.5	Pass
		0	12.00	9.069	0.0052	-2.5 to 2.5	Pass
		10	12.00	5.779	0.0033	-2.5 to 2.5	Pass
		30	12.00	6.616	0.0038	-2.5 to 2.5	Pass
		40	12.00	6.080	0.0035	-2.5 to 2.5	Pass
		50	12.00	7.181	0.0041	-2.5 to 2.5	Pass
		65	12.00	5.579	0.0032	-2.5 to 2.5	Pass
HSDPA	1712.4	20	9.00	13.990	0.0082	-2.5 to 2.5	Pass
			12.00	14.226	0.0083	-2.5 to 2.5	Pass
			30.00	13.368	0.0078	-2.5 to 2.5	Pass
		-20	12.00	13.947	0.0081	-2.5 to 2.5	Pass
		-10	12.00	13.161	0.0077	-2.5 to 2.5	Pass
		0	12.00	11.201	0.0065	-2.5 to 2.5	Pass
		10	12.00	9.470	0.0055	-2.5 to 2.5	Pass
		30	12.00	8.612	0.0050	-2.5 to 2.5	Pass
		40	12.00	8.690	0.0051	-2.5 to 2.5	Pass
		50	12.00	9.205	0.0054	-2.5 to 2.5	Pass
		65	12.00	6.909	0.0040	-2.5 to 2.5	Pass
	1732.6	20	9.00	-0.644	-0.0004	-2.5 to 2.5	Pass
			12.00	-2.003	-0.0012	-2.5 to 2.5	Pass
			30.00	-0.286	-0.0002	-2.5 to 2.5	Pass
		-20	12.00	-3.147	-0.0018	-2.5 to 2.5	Pass
		-10	12.00	-4.606	-0.0027	-2.5 to 2.5	Pass

		0	12.00	-0.350	-0.0002	-2.5 to 2.5	Pass
		10	12.00	-3.054	-0.0018	-2.5 to 2.5	Pass
		30	12.00	-3.698	-0.0021	-2.5 to 2.5	Pass
		40	12.00	-2.968	-0.0017	-2.5 to 2.5	Pass
		50	12.00	0.815	0.0005	-2.5 to 2.5	Pass
		65	12.00	1.502	0.0009	-2.5 to 2.5	Pass
	1752.6	20	9.00	-1.080	-0.0006	-2.5 to 2.5	Pass
			12.00	-0.043	0.0000	-2.5 to 2.5	Pass
			30.00	-1.223	-0.0007	-2.5 to 2.5	Pass
		-20	12.00	-0.451	-0.0003	-2.5 to 2.5	Pass
		-10	12.00	1.016	0.0006	-2.5 to 2.5	Pass
		0	12.00	3.591	0.0020	-2.5 to 2.5	Pass
		10	12.00	2.532	0.0014	-2.5 to 2.5	Pass
		30	12.00	4.091	0.0023	-2.5 to 2.5	Pass
		40	12.00	5.193	0.0030	-2.5 to 2.5	Pass
		50	12.00	4.628	0.0026	-2.5 to 2.5	Pass
		65	12.00	4.642	0.0026	-2.5 to 2.5	Pass
HSUPA	1712.4	20	9.00	-1.845	-0.0011	-2.5 to 2.5	Pass
			12.00	-2.940	-0.0017	-2.5 to 2.5	Pass
			30.00	-3.469	-0.0020	-2.5 to 2.5	Pass
		-20	12.00	-0.587	-0.0003	-2.5 to 2.5	Pass
		-10	12.00	-2.604	-0.0015	-2.5 to 2.5	Pass
		0	12.00	-2.160	-0.0013	-2.5 to 2.5	Pass
		10	12.00	-5.379	-0.0031	-2.5 to 2.5	Pass
		30	12.00	-1.795	-0.0010	-2.5 to 2.5	Pass
		40	12.00	-0.558	-0.0003	-2.5 to 2.5	Pass
		50	12.00	-4.814	-0.0028	-2.5 to 2.5	Pass
	1732.6	20	12.00	-0.751	-0.0004	-2.5 to 2.5	Pass
			9.00	-1.230	-0.0007	-2.5 to 2.5	Pass
			12.00	-2.489	-0.0014	-2.5 to 2.5	Pass
			30.00	-1.774	-0.0010	-2.5 to 2.5	Pass
		-20	12.00	-0.722	-0.0004	-2.5 to 2.5	Pass
		-10	12.00	-0.458	-0.0003	-2.5 to 2.5	Pass
		0	12.00	-1.023	-0.0006	-2.5 to 2.5	Pass
		10	12.00	-1.559	-0.0009	-2.5 to 2.5	Pass
		30	12.00	0.880	0.0005	-2.5 to 2.5	Pass
		40	12.00	0.536	0.0003	-2.5 to 2.5	Pass
		50	12.00	1.295	0.0007	-2.5 to 2.5	Pass
		65	12.00	0.064	0.0000	-2.5 to 2.5	Pass
	1752.6	20	9.00	-0.236	-0.0001	-2.5 to 2.5	Pass
			12.00	0.908	0.0005	-2.5 to 2.5	Pass
			30.00	1.538	0.0009	-2.5 to 2.5	Pass
		-20	12.00	-1.130	-0.0006	-2.5 to 2.5	Pass
		-10	12.00	0.873	0.0005	-2.5 to 2.5	Pass
		0	12.00	0.372	0.0002	-2.5 to 2.5	Pass
		10	12.00	0.014	0.0000	-2.5 to 2.5	Pass
		30	12.00	3.648	0.0021	-2.5 to 2.5	Pass
		40	12.00	0.129	0.0001	-2.5 to 2.5	Pass
		50	12.00	0.966	0.0006	-2.5 to 2.5	Pass
		65	12.00	0.958	0.0005	-2.5 to 2.5	Pass

3. Frequency Stability

3.1 Band5

3.1.1 Test Result

Band: 5							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	9.00	-1.516	-0.0018	-2.5 to 2.5	Pass
			12.00	-1.552	-0.0019	-2.5 to 2.5	Pass
			30.00	-1.702	-0.0021	-2.5 to 2.5	Pass
		-20	12.00	-1.259	-0.0015	-2.5 to 2.5	Pass
		-10	12.00	-1.087	-0.0013	-2.5 to 2.5	Pass
		0	12.00	-0.880	-0.0011	-2.5 to 2.5	Pass
		10	12.00	-1.917	-0.0023	-2.5 to 2.5	Pass
		30	12.00	-1.316	-0.0016	-2.5 to 2.5	Pass
		40	12.00	-1.187	-0.0014	-2.5 to 2.5	Pass
		50	12.00	-1.137	-0.0014	-2.5 to 2.5	Pass
		65	12.00	-0.443	-0.0005	-2.5 to 2.5	Pass
	836.6	20	9.00	0.043	0.0001	-2.5 to 2.5	Pass
			12.00	-0.257	-0.0003	-2.5 to 2.5	Pass
			30.00	0.751	0.0009	-2.5 to 2.5	Pass
		-20	12.00	0.165	0.0002	-2.5 to 2.5	Pass
		-10	12.00	0.494	0.0006	-2.5 to 2.5	Pass
		0	12.00	0.665	0.0008	-2.5 to 2.5	Pass
		10	12.00	0.501	0.0006	-2.5 to 2.5	Pass
		30	12.00	0.887	0.0011	-2.5 to 2.5	Pass
		40	12.00	0.229	0.0003	-2.5 to 2.5	Pass
		50	12.00	0.751	0.0009	-2.5 to 2.5	Pass
		65	12.00	0.429	0.0005	-2.5 to 2.5	Pass
	846.6	20	9.00	-0.236	-0.0003	-2.5 to 2.5	Pass
			12.00	0.107	0.0001	-2.5 to 2.5	Pass
			30.00	-0.200	-0.0002	-2.5 to 2.5	Pass
		-20	12.00	-0.265	-0.0003	-2.5 to 2.5	Pass
		-10	12.00	-1.373	-0.0016	-2.5 to 2.5	Pass
		0	12.00	-0.107	-0.0001	-2.5 to 2.5	Pass
		10	12.00	-0.873	-0.0010	-2.5 to 2.5	Pass
		30	12.00	-1.481	-0.0017	-2.5 to 2.5	Pass
		40	12.00	-1.037	-0.0012	-2.5 to 2.5	Pass
		50	12.00	-0.737	-0.0009	-2.5 to 2.5	Pass
HSDPA	826.4	20	9.00	6.609	0.0080	-2.5 to 2.5	Pass
			12.00	5.980	0.0072	-2.5 to 2.5	Pass
			30.00	6.130	0.0074	-2.5 to 2.5	Pass
		-20	12.00	7.095	0.0086	-2.5 to 2.5	Pass
		-10	12.00	6.387	0.0077	-2.5 to 2.5	Pass
		0	12.00	5.114	0.0062	-2.5 to 2.5	Pass
		10	12.00	4.563	0.0055	-2.5 to 2.5	Pass
		30	12.00	5.851	0.0071	-2.5 to 2.5	Pass
		40	12.00	6.351	0.0077	-2.5 to 2.5	Pass
		50	12.00	6.180	0.0075	-2.5 to 2.5	Pass
		65	12.00	5.715	0.0069	-2.5 to 2.5	Pass
	836.6	20	9.00	1.688	0.0020	-2.5 to 2.5	Pass
			12.00	1.717	0.0021	-2.5 to 2.5	Pass
			30.00	1.967	0.0024	-2.5 to 2.5	Pass
		-20	12.00	2.804	0.0034	-2.5 to 2.5	Pass
		-10	12.00	1.667	0.0020	-2.5 to 2.5	Pass
		0	12.00	1.638	0.0020	-2.5 to 2.5	Pass
		10	12.00	2.038	0.0024	-2.5 to 2.5	Pass

		30	12.00	1.695	0.0020	-2.5 to 2.5	Pass
		40	12.00	1.938	0.0023	-2.5 to 2.5	Pass
		50	12.00	2.017	0.0024	-2.5 to 2.5	Pass
		65	12.00	1.867	0.0022	-2.5 to 2.5	Pass
	846.6	20	9.00	4.163	0.0049	-2.5 to 2.5	Pass
			12.00	5.064	0.0060	-2.5 to 2.5	Pass
			30.00	3.512	0.0041	-2.5 to 2.5	Pass
		-20	12.00	4.542	0.0054	-2.5 to 2.5	Pass
		-10	12.00	4.728	0.0056	-2.5 to 2.5	Pass
		0	12.00	4.892	0.0058	-2.5 to 2.5	Pass
		10	12.00	4.063	0.0048	-2.5 to 2.5	Pass
		30	12.00	4.227	0.0050	-2.5 to 2.5	Pass
		40	12.00	4.492	0.0053	-2.5 to 2.5	Pass
		50	12.00	5.121	0.0060	-2.5 to 2.5	Pass
		65	12.00	5.064	0.0060	-2.5 to 2.5	Pass
HSUPA	826.4	20	9.00	3.176	0.0038	-2.5 to 2.5	Pass
			12.00	3.040	0.0037	-2.5 to 2.5	Pass
			30.00	2.253	0.0027	-2.5 to 2.5	Pass
		-20	12.00	2.975	0.0036	-2.5 to 2.5	Pass
		-10	12.00	2.847	0.0034	-2.5 to 2.5	Pass
		0	12.00	2.182	0.0026	-2.5 to 2.5	Pass
		10	12.00	3.755	0.0045	-2.5 to 2.5	Pass
		30	12.00	3.512	0.0042	-2.5 to 2.5	Pass
		40	12.00	3.161	0.0038	-2.5 to 2.5	Pass
		50	12.00	3.140	0.0038	-2.5 to 2.5	Pass
		65	12.00	3.119	0.0038	-2.5 to 2.5	Pass
	836.6	20	9.00	3.312	0.0040	-2.5 to 2.5	Pass
			12.00	3.076	0.0037	-2.5 to 2.5	Pass
			30.00	2.203	0.0026	-2.5 to 2.5	Pass
		-20	12.00	3.340	0.0040	-2.5 to 2.5	Pass
		-10	12.00	2.310	0.0028	-2.5 to 2.5	Pass
		0	12.00	1.860	0.0022	-2.5 to 2.5	Pass
		10	12.00	2.539	0.0030	-2.5 to 2.5	Pass
		30	12.00	1.516	0.0018	-2.5 to 2.5	Pass
		40	12.00	2.353	0.0028	-2.5 to 2.5	Pass
		50	12.00	1.137	0.0014	-2.5 to 2.5	Pass
		65	12.00	1.202	0.0014	-2.5 to 2.5	Pass
	846.6	20	9.00	2.017	0.0024	-2.5 to 2.5	Pass
			12.00	0.758	0.0009	-2.5 to 2.5	Pass
			30.00	1.087	0.0013	-2.5 to 2.5	Pass
		-20	12.00	1.216	0.0014	-2.5 to 2.5	Pass
		-10	12.00	1.595	0.0019	-2.5 to 2.5	Pass
		0	12.00	0.379	0.0004	-2.5 to 2.5	Pass
		10	12.00	1.395	0.0016	-2.5 to 2.5	Pass
		30	12.00	0.393	0.0005	-2.5 to 2.5	Pass
		40	12.00	2.282	0.0027	-2.5 to 2.5	Pass
		50	12.00	1.616	0.0019	-2.5 to 2.5	Pass
		65	12.00	1.316	0.0016	-2.5 to 2.5	Pass