

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	3.3	0.551	0.0003	-2.5 to 2.5	Pass
			3.6	3.541	0.0019	-2.5 to 2.5	Pass
			4.2	-0.007	0.0000	-2.5 to 2.5	Pass
		-30	3.6	-0.529	-0.0003	-2.5 to 2.5	Pass
		-20	3.6	1.216	0.0007	-2.5 to 2.5	Pass
		-10	3.6	-1.123	-0.0006	-2.5 to 2.5	Pass
		0	3.6	-1.273	-0.0007	-2.5 to 2.5	Pass
		10	3.6	-0.322	-0.0002	-2.5 to 2.5	Pass
		30	3.6	0.587	0.0003	-2.5 to 2.5	Pass
		40	3.6	-0.565	-0.0003	-2.5 to 2.5	Pass
	50	3.6	-1.674	-0.0009	-2.5 to 2.5	Pass	
	1880	20	3.3	-3.812	-0.0020	-2.5 to 2.5	Pass
			3.6	3.791	0.0020	-2.5 to 2.5	Pass
			4.2	-1.674	-0.0009	-2.5 to 2.5	Pass
		-30	3.6	-2.596	-0.0014	-2.5 to 2.5	Pass
		-20	3.6	1.917	0.0010	-2.5 to 2.5	Pass
		-10	3.6	1.760	0.0009	-2.5 to 2.5	Pass
		0	3.6	1.874	0.0010	-2.5 to 2.5	Pass
		10	3.6	-5.457	-0.0029	-2.5 to 2.5	Pass
		30	3.6	4.113	0.0022	-2.5 to 2.5	Pass
		40	3.6	-1.009	-0.0005	-2.5 to 2.5	Pass
	50	3.6	-0.365	-0.0002	-2.5 to 2.5	Pass	
	1907.6	20	3.3	1.695	0.0009	-2.5 to 2.5	Pass
			3.6	-2.797	-0.0015	-2.5 to 2.5	Pass
			4.2	6.545	0.0034	-2.5 to 2.5	Pass
		-30	3.6	-5.922	-0.0031	-2.5 to 2.5	Pass
		-20	3.6	4.950	0.0026	-2.5 to 2.5	Pass
		-10	3.6	0.794	0.0004	-2.5 to 2.5	Pass
		0	3.6	-3.083	-0.0016	-2.5 to 2.5	Pass
		10	3.6	4.249	0.0022	-2.5 to 2.5	Pass
30		3.6	0.422	0.0002	-2.5 to 2.5	Pass	
40		3.6	3.462	0.0018	-2.5 to 2.5	Pass	
50	3.6	7.861	0.0041	-2.5 to 2.5	Pass		
HSDPA	1852.4	20	3.3	2.582	0.0014	-2.5 to 2.5	Pass
			3.6	1.853	0.0010	-2.5 to 2.5	Pass
			4.2	8.597	0.0046	-2.5 to 2.5	Pass
		-30	3.6	16.994	0.0092	-2.5 to 2.5	Pass
		-20	3.6	5.836	0.0032	-2.5 to 2.5	Pass
		-10	3.6	7.396	0.0040	-2.5 to 2.5	Pass
		0	3.6	6.130	0.0033	-2.5 to 2.5	Pass
		10	3.6	9.320	0.0050	-2.5 to 2.5	Pass
		30	3.6	6.902	0.0037	-2.5 to 2.5	Pass
		40	3.6	5.987	0.0032	-2.5 to 2.5	Pass
	50	3.6	11.787	0.0064	-2.5 to 2.5	Pass	
	1880	20	3.3	11.673	0.0062	-2.5 to 2.5	Pass
			3.6	10.107	0.0054	-2.5 to 2.5	Pass

			4.2	10.114	0.0054	-2.5 to 2.5	Pass	
		-30	3.6	8.769	0.0047	-2.5 to 2.5	Pass	
		-20	3.6	8.276	0.0044	-2.5 to 2.5	Pass	
		-10	3.6	8.404	0.0045	-2.5 to 2.5	Pass	
		0	3.6	10.121	0.0054	-2.5 to 2.5	Pass	
		10	3.6	9.212	0.0049	-2.5 to 2.5	Pass	
		30	3.6	6.917	0.0037	-2.5 to 2.5	Pass	
		40	3.6	9.034	0.0048	-2.5 to 2.5	Pass	
		50	3.6	11.208	0.0060	-2.5 to 2.5	Pass	
	1907.6	20		3.3	5.872	0.0031	-2.5 to 2.5	Pass
				3.6	4.506	0.0024	-2.5 to 2.5	Pass
				4.2	1.974	0.0010	-2.5 to 2.5	Pass
			-30	3.6	-3.412	-0.0018	-2.5 to 2.5	Pass
			-20	3.6	7.854	0.0041	-2.5 to 2.5	Pass
			-10	3.6	9.763	0.0051	-2.5 to 2.5	Pass
			0	3.6	8.554	0.0045	-2.5 to 2.5	Pass
			10	3.6	8.597	0.0045	-2.5 to 2.5	Pass
			30	3.6	1.481	0.0008	-2.5 to 2.5	Pass
		40	3.6	0.894	0.0005	-2.5 to 2.5	Pass	
	50	3.6	-1.538	-0.0008	-2.5 to 2.5	Pass		
HSUPA	1852.4	20		3.3	-9.484	-0.0051	-2.5 to 2.5	Pass
				3.6	-1.144	-0.0006	-2.5 to 2.5	Pass
				4.2	-5.329	-0.0029	-2.5 to 2.5	Pass
			-30	3.6	-7.675	-0.0041	-2.5 to 2.5	Pass
			-20	3.6	-6.545	-0.0035	-2.5 to 2.5	Pass
			-10	3.6	-11.609	-0.0063	-2.5 to 2.5	Pass
			0	3.6	-16.201	-0.0087	-2.5 to 2.5	Pass
			10	3.6	-12.281	-0.0066	-2.5 to 2.5	Pass
			30	3.6	4.714	0.0025	-2.5 to 2.5	Pass
			40	3.6	-0.901	-0.0005	-2.5 to 2.5	Pass
		50	3.6	-9.313	-0.0050	-2.5 to 2.5	Pass	
	1880	20		3.3	-5.722	-0.0030	-2.5 to 2.5	Pass
				3.6	-12.367	-0.0066	-2.5 to 2.5	Pass
				4.2	-7.818	-0.0042	-2.5 to 2.5	Pass
			-30	3.6	-11.201	-0.0060	-2.5 to 2.5	Pass
			-20	3.6	-13.261	-0.0071	-2.5 to 2.5	Pass
			-10	3.6	-6.795	-0.0036	-2.5 to 2.5	Pass
			0	3.6	-8.833	-0.0047	-2.5 to 2.5	Pass
			10	3.6	-8.268	-0.0044	-2.5 to 2.5	Pass
			30	3.6	-12.188	-0.0065	-2.5 to 2.5	Pass
			40	3.6	-15.242	-0.0081	-2.5 to 2.5	Pass
		50	3.6	-7.753	-0.0041	-2.5 to 2.5	Pass	
	1907.6	20		3.3	-7.539	-0.0040	-2.5 to 2.5	Pass
				3.6	-5.271	-0.0028	-2.5 to 2.5	Pass
				4.2	-10.672	-0.0056	-2.5 to 2.5	Pass
			-30	3.6	-12.224	-0.0064	-2.5 to 2.5	Pass
			-20	3.6	-5.550	-0.0029	-2.5 to 2.5	Pass
			-10	3.6	-4.900	-0.0026	-2.5 to 2.5	Pass
			0	3.6	-6.723	-0.0035	-2.5 to 2.5	Pass
			10	3.6	-4.370	-0.0023	-2.5 to 2.5	Pass
		30	3.6	-11.609	-0.0061	-2.5 to 2.5	Pass	
		40	3.6	-7.818	-0.0041	-2.5 to 2.5	Pass	
	50	3.6	-3.612	-0.0019	-2.5 to 2.5	Pass		

2. Frequency Stability

2.1 Band5

2.1.1 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	3.3	-1.688	-0.0020	-2.5 to 2.5	Pass
			3.6	0.572	0.0007	-2.5 to 2.5	Pass
			4.2	-0.408	-0.0005	-2.5 to 2.5	Pass
		-30	3.6	-0.815	-0.0010	-2.5 to 2.5	Pass
		-20	3.6	0.257	0.0003	-2.5 to 2.5	Pass
		-10	3.6	-1.087	-0.0013	-2.5 to 2.5	Pass
		0	3.6	0.858	0.0010	-2.5 to 2.5	Pass
		10	3.6	-0.980	-0.0012	-2.5 to 2.5	Pass
		30	3.6	-0.536	-0.0006	-2.5 to 2.5	Pass
		40	3.6	-2.367	-0.0029	-2.5 to 2.5	Pass
	50	3.6	-1.731	-0.0021	-2.5 to 2.5	Pass	
	836.6	20	3.3	-0.572	-0.0007	-2.5 to 2.5	Pass
			3.6	0.665	0.0008	-2.5 to 2.5	Pass
			4.2	-0.386	-0.0005	-2.5 to 2.5	Pass
		-30	3.6	-1.574	-0.0019	-2.5 to 2.5	Pass
		-20	3.6	-0.107	-0.0001	-2.5 to 2.5	Pass
		-10	3.6	-0.072	-0.0001	-2.5 to 2.5	Pass
		0	3.6	-1.352	-0.0016	-2.5 to 2.5	Pass
		10	3.6	-1.445	-0.0017	-2.5 to 2.5	Pass
		30	3.6	-1.438	-0.0017	-2.5 to 2.5	Pass
		40	3.6	-1.094	-0.0013	-2.5 to 2.5	Pass
	50	3.6	-0.050	-0.0001	-2.5 to 2.5	Pass	
	846.6	20	3.3	-0.293	-0.0003	-2.5 to 2.5	Pass
			3.6	1.209	0.0014	-2.5 to 2.5	Pass
			4.2	0.980	0.0012	-2.5 to 2.5	Pass
		-30	3.6	-2.067	-0.0024	-2.5 to 2.5	Pass
		-20	3.6	-2.189	-0.0026	-2.5 to 2.5	Pass
		-10	3.6	-0.558	-0.0007	-2.5 to 2.5	Pass
		0	3.6	-0.265	-0.0003	-2.5 to 2.5	Pass
		10	3.6	-0.100	-0.0001	-2.5 to 2.5	Pass
30		3.6	-0.665	-0.0008	-2.5 to 2.5	Pass	
40		3.6	0.122	0.0001	-2.5 to 2.5	Pass	
50	3.6	1.338	0.0016	-2.5 to 2.5	Pass		
HSDPA	826.4	20	3.3	2.146	0.0026	-2.5 to 2.5	Pass
			3.6	2.747	0.0033	-2.5 to 2.5	Pass
			4.2	-0.601	-0.0007	-2.5 to 2.5	Pass
		-30	3.6	3.963	0.0048	-2.5 to 2.5	Pass
		-20	3.6	2.797	0.0034	-2.5 to 2.5	Pass
		-10	3.6	2.561	0.0031	-2.5 to 2.5	Pass
		0	3.6	1.652	0.0020	-2.5 to 2.5	Pass
		10	3.6	1.473	0.0018	-2.5 to 2.5	Pass
		30	3.6	1.416	0.0017	-2.5 to 2.5	Pass
		40	3.6	1.187	0.0014	-2.5 to 2.5	Pass
50	3.6	2.232	0.0027	-2.5 to 2.5	Pass		

	836.6	20	3.3	1.760	0.0021	-2.5 to 2.5	Pass
			3.6	1.638	0.0020	-2.5 to 2.5	Pass
			4.2	5.243	0.0063	-2.5 to 2.5	Pass
		-30	3.6	4.656	0.0056	-2.5 to 2.5	Pass
		-20	3.6	4.914	0.0059	-2.5 to 2.5	Pass
		-10	3.6	5.157	0.0062	-2.5 to 2.5	Pass
		0	3.6	3.963	0.0047	-2.5 to 2.5	Pass
		10	3.6	5.150	0.0062	-2.5 to 2.5	Pass
		30	3.6	5.736	0.0069	-2.5 to 2.5	Pass
	40	3.6	5.243	0.0063	-2.5 to 2.5	Pass	
	50	3.6	6.180	0.0074	-2.5 to 2.5	Pass	
	846.6	20	3.3	4.699	0.0056	-2.5 to 2.5	Pass
			3.6	4.814	0.0057	-2.5 to 2.5	Pass
			4.2	4.370	0.0052	-2.5 to 2.5	Pass
		-30	3.6	4.635	0.0055	-2.5 to 2.5	Pass
		-20	3.6	3.369	0.0040	-2.5 to 2.5	Pass
		-10	3.6	3.912	0.0046	-2.5 to 2.5	Pass
		0	3.6	3.641	0.0043	-2.5 to 2.5	Pass
10		3.6	4.449	0.0053	-2.5 to 2.5	Pass	
30		3.6	4.628	0.0055	-2.5 to 2.5	Pass	
40	3.6	4.771	0.0056	-2.5 to 2.5	Pass		
50	3.6	4.034	0.0048	-2.5 to 2.5	Pass		
HSUPA	826.4	20	3.3	-3.898	-0.0047	-2.5 to 2.5	Pass
			3.6	-4.413	-0.0053	-2.5 to 2.5	Pass
			4.2	-2.654	-0.0032	-2.5 to 2.5	Pass
		-30	3.6	-0.730	-0.0009	-2.5 to 2.5	Pass
		-20	3.6	-2.432	-0.0029	-2.5 to 2.5	Pass
		-10	3.6	-3.498	-0.0042	-2.5 to 2.5	Pass
		0	3.6	-5.193	-0.0063	-2.5 to 2.5	Pass
		10	3.6	-5.100	-0.0062	-2.5 to 2.5	Pass
		30	3.6	-7.052	-0.0085	-2.5 to 2.5	Pass
		40	3.6	-7.360	-0.0089	-2.5 to 2.5	Pass
		50	3.6	-6.487	-0.0078	-2.5 to 2.5	Pass
		836.6	20	3.3	-3.333	-0.0040	-2.5 to 2.5
	3.6			-1.688	-0.0020	-2.5 to 2.5	Pass
	4.2			-3.619	-0.0043	-2.5 to 2.5	Pass
	-30		3.6	-5.400	-0.0065	-2.5 to 2.5	Pass
	-20		3.6	-3.970	-0.0047	-2.5 to 2.5	Pass
	-10		3.6	-5.243	-0.0063	-2.5 to 2.5	Pass
	0		3.6	-4.056	-0.0048	-2.5 to 2.5	Pass
	10		3.6	-6.537	-0.0078	-2.5 to 2.5	Pass
	30		3.6	-2.832	-0.0034	-2.5 to 2.5	Pass
	40		3.6	-3.047	-0.0036	-2.5 to 2.5	Pass
	50		3.6	-3.469	-0.0041	-2.5 to 2.5	Pass
	846.6		20	3.3	-0.243	-0.0003	-2.5 to 2.5
		3.6		0.136	0.0002	-2.5 to 2.5	Pass
		4.2		-1.674	-0.0020	-2.5 to 2.5	Pass
		-30	3.6	0.243	0.0003	-2.5 to 2.5	Pass
		-20	3.6	-0.830	-0.0010	-2.5 to 2.5	Pass
		-10	3.6	0.744	0.0009	-2.5 to 2.5	Pass
		0	3.6	1.566	0.0018	-2.5 to 2.5	Pass
		10	3.6	1.795	0.0021	-2.5 to 2.5	Pass
		30	3.6	-0.687	-0.0008	-2.5 to 2.5	Pass
		40	3.6	1.273	0.0015	-2.5 to 2.5	Pass
		50	3.6	0.737	0.0009	-2.5 to 2.5	Pass