

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	4.156	0.0022	-2.5 to 2.5	Pass
			3.6	-4.749	-0.0026	-2.5 to 2.5	Pass
			4.2	-0.944	-0.0005	-2.5 to 2.5	Pass
		-30	3.6	0.787	0.0004	-2.5 to 2.5	Pass
		-20	3.6	-0.679	-0.0004	-2.5 to 2.5	Pass
		-10	3.6	3.591	0.0019	-2.5 to 2.5	Pass
		0	3.6	0.916	0.0005	-2.5 to 2.5	Pass
		10	3.6	-7.002	-0.0038	-2.5 to 2.5	Pass
		30	3.6	4.978	0.0027	-2.5 to 2.5	Pass
		40	3.6	-7.582	-0.0041	-2.5 to 2.5	Pass
	50	3.6	-6.666	-0.0036	-2.5 to 2.5	Pass	
	1880	20	3.3	4.878	0.0026	-2.5 to 2.5	Pass
			3.6	-1.438	-0.0008	-2.5 to 2.5	Pass
			4.2	-2.775	-0.0015	-2.5 to 2.5	Pass
		-30	3.6	-2.110	-0.0011	-2.5 to 2.5	Pass
		-20	3.6	-3.476	-0.0018	-2.5 to 2.5	Pass
		-10	3.6	-0.107	-0.0001	-2.5 to 2.5	Pass
		0	3.6	0.143	0.0001	-2.5 to 2.5	Pass
		10	3.6	8.762	0.0047	-2.5 to 2.5	Pass
		30	3.6	4.277	0.0023	-2.5 to 2.5	Pass
		40	3.6	1.237	0.0007	-2.5 to 2.5	Pass
	50	3.6	-5.908	-0.0031	-2.5 to 2.5	Pass	
	1907.6	20	3.3	-2.296	-0.0012	-2.5 to 2.5	Pass
			3.6	1.080	0.0006	-2.5 to 2.5	Pass
			4.2	-1.388	-0.0007	-2.5 to 2.5	Pass
		-30	3.6	2.296	0.0012	-2.5 to 2.5	Pass
		-20	3.6	1.116	0.0006	-2.5 to 2.5	Pass
		-10	3.6	-0.529	-0.0003	-2.5 to 2.5	Pass
		0	3.6	6.509	0.0034	-2.5 to 2.5	Pass
		10	3.6	-1.566	-0.0008	-2.5 to 2.5	Pass
30		3.6	5.386	0.0028	-2.5 to 2.5	Pass	
40		3.6	2.568	0.0013	-2.5 to 2.5	Pass	
50	3.6	4.084	0.0021	-2.5 to 2.5	Pass		
HSDPA	1852.4	20	3.3	4.377	0.0024	-2.5 to 2.5	Pass
			3.6	5.937	0.0032	-2.5 to 2.5	Pass
			4.2	3.698	0.0020	-2.5 to 2.5	Pass
		-30	3.6	4.098	0.0022	-2.5 to 2.5	Pass
		-20	3.6	4.706	0.0025	-2.5 to 2.5	Pass
		-10	3.6	4.592	0.0025	-2.5 to 2.5	Pass
		0	3.6	2.210	0.0012	-2.5 to 2.5	Pass
		10	3.6	4.721	0.0025	-2.5 to 2.5	Pass
		30	3.6	3.176	0.0017	-2.5 to 2.5	Pass
		40	3.6	6.974	0.0038	-2.5 to 2.5	Pass
	50	3.6	8.039	0.0043	-2.5 to 2.5	Pass	
	1880	20	3.3	8.790	0.0047	-2.5 to 2.5	Pass
			3.6	9.284	0.0049	-2.5 to 2.5	Pass

			4.2	8.311	0.0044	-2.5 to 2.5	Pass	
		-30	3.6	9.027	0.0048	-2.5 to 2.5	Pass	
		-20	3.6	8.054	0.0043	-2.5 to 2.5	Pass	
		-10	3.6	8.647	0.0046	-2.5 to 2.5	Pass	
		0	3.6	8.726	0.0046	-2.5 to 2.5	Pass	
		10	3.6	8.976	0.0048	-2.5 to 2.5	Pass	
		30	3.6	6.816	0.0036	-2.5 to 2.5	Pass	
		40	3.6	7.303	0.0039	-2.5 to 2.5	Pass	
		50	3.6	6.931	0.0037	-2.5 to 2.5	Pass	
	1907.6	20		3.3	6.344	0.0033	-2.5 to 2.5	Pass
				3.6	10.493	0.0055	-2.5 to 2.5	Pass
				4.2	8.955	0.0047	-2.5 to 2.5	Pass
		-30	3.6	6.938	0.0036	-2.5 to 2.5	Pass	
		-20	3.6	-1.981	-0.0010	-2.5 to 2.5	Pass	
		-10	3.6	1.001	0.0005	-2.5 to 2.5	Pass	
		0	3.6	12.267	0.0064	-2.5 to 2.5	Pass	
		10	3.6	10.064	0.0053	-2.5 to 2.5	Pass	
		30	3.6	10.285	0.0054	-2.5 to 2.5	Pass	
40	3.6	6.702	0.0035	-2.5 to 2.5	Pass			
50	3.6	0.286	0.0001	-2.5 to 2.5	Pass			
HSUPA	1852.4	20		3.3	-0.107	-0.0001	-2.5 to 2.5	Pass
				3.6	0.007	0.0000	-2.5 to 2.5	Pass
				4.2	0.508	0.0003	-2.5 to 2.5	Pass
		-30	3.6	-4.206	-0.0023	-2.5 to 2.5	Pass	
		-20	3.6	-0.165	-0.0001	-2.5 to 2.5	Pass	
		-10	3.6	-7.739	-0.0042	-2.5 to 2.5	Pass	
		0	3.6	-14.176	-0.0077	-2.5 to 2.5	Pass	
		10	3.6	-8.175	-0.0044	-2.5 to 2.5	Pass	
		30	3.6	-11.644	-0.0063	-2.5 to 2.5	Pass	
		40	3.6	-13.039	-0.0070	-2.5 to 2.5	Pass	
		50	3.6	-8.955	-0.0048	-2.5 to 2.5	Pass	
		1880	20		3.3	-0.644	-0.0003	-2.5 to 2.5
				3.6	1.402	0.0007	-2.5 to 2.5	Pass
				4.2	-3.977	-0.0021	-2.5 to 2.5	Pass
	-30		3.6	2.346	0.0012	-2.5 to 2.5	Pass	
	-20		3.6	0.000	0.0000	-2.5 to 2.5	Pass	
	-10		3.6	-4.563	-0.0024	-2.5 to 2.5	Pass	
	0		3.6	-9.105	-0.0048	-2.5 to 2.5	Pass	
	10		3.6	1.316	0.0007	-2.5 to 2.5	Pass	
	30		3.6	-2.489	-0.0013	-2.5 to 2.5	Pass	
	40		3.6	-3.512	-0.0019	-2.5 to 2.5	Pass	
	50		3.6	-3.219	-0.0017	-2.5 to 2.5	Pass	
	1907.6		20		3.3	-9.184	-0.0048	-2.5 to 2.5
				3.6	0.350	0.0002	-2.5 to 2.5	Pass
				4.2	-5.929	-0.0031	-2.5 to 2.5	Pass
		-30	3.6	-6.402	-0.0034	-2.5 to 2.5	Pass	
		-20	3.6	-8.712	-0.0046	-2.5 to 2.5	Pass	
		-10	3.6	-10.936	-0.0057	-2.5 to 2.5	Pass	
		0	3.6	-10.307	-0.0054	-2.5 to 2.5	Pass	
		10	3.6	-15.492	-0.0081	-2.5 to 2.5	Pass	
		30	3.6	-14.098	-0.0074	-2.5 to 2.5	Pass	
		40	3.6	-11.516	-0.0060	-2.5 to 2.5	Pass	
		50	3.6	-13.926	-0.0073	-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	3.3	2.196	0.0013	-2.5 to 2.5	Pass
			3.6	2.224	0.0013	-2.5 to 2.5	Pass
			4.2	2.711	0.0016	-2.5 to 2.5	Pass
		-30	3.6	3.533	0.0021	-2.5 to 2.5	Pass
		-20	3.6	3.333	0.0019	-2.5 to 2.5	Pass
		-10	3.6	3.276	0.0019	-2.5 to 2.5	Pass
		0	3.6	4.277	0.0025	-2.5 to 2.5	Pass
		10	3.6	4.299	0.0025	-2.5 to 2.5	Pass
		30	3.6	4.556	0.0027	-2.5 to 2.5	Pass
		40	3.6	3.948	0.0023	-2.5 to 2.5	Pass
	50	3.6	4.785	0.0028	-2.5 to 2.5	Pass	
	1732.6	20	3.3	-3.240	-0.0019	-2.5 to 2.5	Pass
			3.6	-9.592	-0.0055	-2.5 to 2.5	Pass
			4.2	3.705	0.0021	-2.5 to 2.5	Pass
		-30	3.6	0.937	0.0005	-2.5 to 2.5	Pass
		-20	3.6	6.480	0.0037	-2.5 to 2.5	Pass
		-10	3.6	-1.681	-0.0010	-2.5 to 2.5	Pass
		0	3.6	4.313	0.0025	-2.5 to 2.5	Pass
		10	3.6	-2.096	-0.0012	-2.5 to 2.5	Pass
		30	3.6	1.073	0.0006	-2.5 to 2.5	Pass
		40	3.6	2.346	0.0014	-2.5 to 2.5	Pass
	50	3.6	-3.619	-0.0021	-2.5 to 2.5	Pass	
	1752.6	20	3.3	7.782	0.0044	-2.5 to 2.5	Pass
			3.6	-4.492	-0.0026	-2.5 to 2.5	Pass
			4.2	-4.971	-0.0028	-2.5 to 2.5	Pass
		-30	3.6	-5.636	-0.0032	-2.5 to 2.5	Pass
		-20	3.6	0.594	0.0003	-2.5 to 2.5	Pass
		-10	3.6	-3.526	-0.0020	-2.5 to 2.5	Pass
		0	3.6	-4.385	-0.0025	-2.5 to 2.5	Pass
		10	3.6	1.810	0.0010	-2.5 to 2.5	Pass
30		3.6	1.853	0.0011	-2.5 to 2.5	Pass	
40		3.6	0.966	0.0006	-2.5 to 2.5	Pass	
50	3.6	-1.295	-0.0007	-2.5 to 2.5	Pass		
HSDPA	1712.4	20	3.3	6.058	0.0035	-2.5 to 2.5	Pass
			3.6	1.187	0.0007	-2.5 to 2.5	Pass
			4.2	0.665	0.0004	-2.5 to 2.5	Pass
		-30	3.6	11.172	0.0065	-2.5 to 2.5	Pass
		-20	3.6	11.358	0.0066	-2.5 to 2.5	Pass
		-10	3.6	11.415	0.0067	-2.5 to 2.5	Pass
		0	3.6	5.822	0.0034	-2.5 to 2.5	Pass
		10	3.6	7.710	0.0045	-2.5 to 2.5	Pass
		30	3.6	2.646	0.0015	-2.5 to 2.5	Pass
		40	3.6	5.100	0.0030	-2.5 to 2.5	Pass
50	3.6	6.173	0.0036	-2.5 to 2.5	Pass		

	1732.6	20	3.3	2.768	0.0016	-2.5 to 2.5	Pass
			3.6	4.499	0.0026	-2.5 to 2.5	Pass
			4.2	-3.254	-0.0019	-2.5 to 2.5	Pass
		-30	3.6	-3.076	-0.0018	-2.5 to 2.5	Pass
		-20	3.6	0.165	0.0001	-2.5 to 2.5	Pass
		-10	3.6	-0.479	-0.0003	-2.5 to 2.5	Pass
		0	3.6	8.290	0.0048	-2.5 to 2.5	Pass
		10	3.6	14.148	0.0082	-2.5 to 2.5	Pass
		30	3.6	5.822	0.0034	-2.5 to 2.5	Pass
	40	3.6	6.866	0.0040	-2.5 to 2.5	Pass	
	50	3.6	7.575	0.0044	-2.5 to 2.5	Pass	
	1752.6	20	3.3	11.094	0.0063	-2.5 to 2.5	Pass
			3.6	11.981	0.0068	-2.5 to 2.5	Pass
			4.2	10.586	0.0060	-2.5 to 2.5	Pass
		-30	3.6	8.318	0.0047	-2.5 to 2.5	Pass
		-20	3.6	11.165	0.0064	-2.5 to 2.5	Pass
		-10	3.6	14.412	0.0082	-2.5 to 2.5	Pass
		0	3.6	11.473	0.0065	-2.5 to 2.5	Pass
10		3.6	13.776	0.0079	-2.5 to 2.5	Pass	
30		3.6	9.212	0.0053	-2.5 to 2.5	Pass	
40	3.6	9.706	0.0055	-2.5 to 2.5	Pass		
50	3.6	2.539	0.0014	-2.5 to 2.5	Pass		
HSUPA	1712.4	20	3.3	-10.643	-0.0062	-2.5 to 2.5	Pass
			3.6	-10.757	-0.0063	-2.5 to 2.5	Pass
			4.2	-6.208	-0.0036	-2.5 to 2.5	Pass
		-30	3.6	-9.606	-0.0056	-2.5 to 2.5	Pass
		-20	3.6	-5.729	-0.0033	-2.5 to 2.5	Pass
		-10	3.6	-7.896	-0.0046	-2.5 to 2.5	Pass
		0	3.6	-8.826	-0.0052	-2.5 to 2.5	Pass
		10	3.6	-8.354	-0.0049	-2.5 to 2.5	Pass
		30	3.6	-7.453	-0.0044	-2.5 to 2.5	Pass
	40	3.6	-4.034	-0.0024	-2.5 to 2.5	Pass	
	50	3.6	-8.118	-0.0047	-2.5 to 2.5	Pass	
	1732.6	20	3.3	-10.607	-0.0061	-2.5 to 2.5	Pass
			3.6	-2.246	-0.0013	-2.5 to 2.5	Pass
			4.2	3.648	0.0021	-2.5 to 2.5	Pass
		-30	3.6	3.126	0.0018	-2.5 to 2.5	Pass
		-20	3.6	-1.237	-0.0007	-2.5 to 2.5	Pass
		-10	3.6	-9.034	-0.0052	-2.5 to 2.5	Pass
		0	3.6	-2.646	-0.0015	-2.5 to 2.5	Pass
10		3.6	6.595	0.0038	-2.5 to 2.5	Pass	
30		3.6	-2.275	-0.0013	-2.5 to 2.5	Pass	
40	3.6	-3.619	-0.0021	-2.5 to 2.5	Pass		
50	3.6	0.236	0.0001	-2.5 to 2.5	Pass		
1752.6	20	3.3	-8.426	-0.0048	-2.5 to 2.5	Pass	
		3.6	-4.220	-0.0024	-2.5 to 2.5	Pass	
		4.2	0.215	0.0001	-2.5 to 2.5	Pass	
	-30	3.6	-8.404	-0.0048	-2.5 to 2.5	Pass	
	-20	3.6	1.552	0.0009	-2.5 to 2.5	Pass	
	-10	3.6	-0.272	-0.0002	-2.5 to 2.5	Pass	
	0	3.6	-6.180	-0.0035	-2.5 to 2.5	Pass	
	10	3.6	-3.061	-0.0017	-2.5 to 2.5	Pass	
	30	3.6	-0.458	-0.0003	-2.5 to 2.5	Pass	
40	3.6	-5.808	-0.0033	-2.5 to 2.5	Pass		
50	3.6	-0.136	-0.0001	-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	3.3	-1.380	-0.0017	-2.5 to 2.5	Pass
			3.6	-0.050	-0.0001	-2.5 to 2.5	Pass
			4.2	-0.780	-0.0009	-2.5 to 2.5	Pass
		-30	3.6	-1.717	-0.0021	-2.5 to 2.5	Pass
		-20	3.6	-2.275	-0.0028	-2.5 to 2.5	Pass
		-10	3.6	-1.066	-0.0013	-2.5 to 2.5	Pass
		0	3.6	0.551	0.0007	-2.5 to 2.5	Pass
		10	3.6	-1.631	-0.0020	-2.5 to 2.5	Pass
		30	3.6	-1.237	-0.0015	-2.5 to 2.5	Pass
		40	3.6	0.808	0.0010	-2.5 to 2.5	Pass
	50	3.6	-2.160	-0.0026	-2.5 to 2.5	Pass	
	836.6	20	3.3	-1.523	-0.0018	-2.5 to 2.5	Pass
			3.6	-0.186	-0.0002	-2.5 to 2.5	Pass
			4.2	-0.608	-0.0007	-2.5 to 2.5	Pass
		-30	3.6	0.358	0.0004	-2.5 to 2.5	Pass
		-20	3.6	-1.745	-0.0021	-2.5 to 2.5	Pass
		-10	3.6	1.080	0.0013	-2.5 to 2.5	Pass
		0	3.6	-0.551	-0.0007	-2.5 to 2.5	Pass
		10	3.6	-2.224	-0.0027	-2.5 to 2.5	Pass
		30	3.6	0.622	0.0007	-2.5 to 2.5	Pass
		40	3.6	-0.694	-0.0008	-2.5 to 2.5	Pass
	50	3.6	-2.382	-0.0028	-2.5 to 2.5	Pass	
	846.6	20	3.3	1.516	0.0018	-2.5 to 2.5	Pass
			3.6	1.545	0.0018	-2.5 to 2.5	Pass
			4.2	0.672	0.0008	-2.5 to 2.5	Pass
		-30	3.6	-0.057	-0.0001	-2.5 to 2.5	Pass
		-20	3.6	0.286	0.0003	-2.5 to 2.5	Pass
		-10	3.6	0.501	0.0006	-2.5 to 2.5	Pass
		0	3.6	-1.624	-0.0019	-2.5 to 2.5	Pass
		10	3.6	-1.495	-0.0018	-2.5 to 2.5	Pass
30		3.6	-0.193	-0.0002	-2.5 to 2.5	Pass	
40		3.6	-1.123	-0.0013	-2.5 to 2.5	Pass	
50	3.6	0.107	0.0001	-2.5 to 2.5	Pass		
HSDPA	826.4	20	3.3	4.928	0.0060	-2.5 to 2.5	Pass
			3.6	4.649	0.0056	-2.5 to 2.5	Pass
			4.2	3.598	0.0044	-2.5 to 2.5	Pass
		-30	3.6	4.056	0.0049	-2.5 to 2.5	Pass
		-20	3.6	4.427	0.0054	-2.5 to 2.5	Pass
		-10	3.6	4.199	0.0051	-2.5 to 2.5	Pass
		0	3.6	5.364	0.0065	-2.5 to 2.5	Pass
		10	3.6	5.851	0.0071	-2.5 to 2.5	Pass
		30	3.6	5.314	0.0064	-2.5 to 2.5	Pass
		40	3.6	4.885	0.0059	-2.5 to 2.5	Pass
	50	3.6	5.128	0.0062	-2.5 to 2.5	Pass	
	836.6	20	3.3	3.026	0.0036	-2.5 to 2.5	Pass
			3.6	2.797	0.0033	-2.5 to 2.5	Pass

			4.2	2.832	0.0034	-2.5 to 2.5	Pass	
		-30	3.6	3.290	0.0039	-2.5 to 2.5	Pass	
		-20	3.6	4.320	0.0052	-2.5 to 2.5	Pass	
		-10	3.6	3.762	0.0045	-2.5 to 2.5	Pass	
		0	3.6	3.726	0.0045	-2.5 to 2.5	Pass	
		10	3.6	1.824	0.0022	-2.5 to 2.5	Pass	
		30	3.6	2.925	0.0035	-2.5 to 2.5	Pass	
		40	3.6	4.499	0.0054	-2.5 to 2.5	Pass	
		50	3.6	3.920	0.0047	-2.5 to 2.5	Pass	
	846.6	20		3.3	5.250	0.0062	-2.5 to 2.5	Pass
				3.6	5.379	0.0064	-2.5 to 2.5	Pass
				4.2	4.034	0.0048	-2.5 to 2.5	Pass
		-30	3.6	5.214	0.0062	-2.5 to 2.5	Pass	
		-20	3.6	5.314	0.0063	-2.5 to 2.5	Pass	
		-10	3.6	4.964	0.0059	-2.5 to 2.5	Pass	
		0	3.6	5.937	0.0070	-2.5 to 2.5	Pass	
		10	3.6	5.021	0.0059	-2.5 to 2.5	Pass	
		30	3.6	5.171	0.0061	-2.5 to 2.5	Pass	
40	3.6	4.606	0.0054	-2.5 to 2.5	Pass			
50	3.6	4.728	0.0056	-2.5 to 2.5	Pass			
HSUPA	826.4	20		3.3	-4.098	-0.0050	-2.5 to 2.5	Pass
				3.6	-2.010	-0.0024	-2.5 to 2.5	Pass
				4.2	0.207	0.0003	-2.5 to 2.5	Pass
		-30	3.6	-2.918	-0.0035	-2.5 to 2.5	Pass	
		-20	3.6	-2.346	-0.0028	-2.5 to 2.5	Pass	
		-10	3.6	0.114	0.0001	-2.5 to 2.5	Pass	
		0	3.6	-3.383	-0.0041	-2.5 to 2.5	Pass	
		10	3.6	-2.925	-0.0035	-2.5 to 2.5	Pass	
		30	3.6	-4.134	-0.0050	-2.5 to 2.5	Pass	
	40	3.6	-4.513	-0.0055	-2.5 to 2.5	Pass		
	50	3.6	-2.439	-0.0030	-2.5 to 2.5	Pass		
	836.6	20		3.3	-2.360	-0.0028	-2.5 to 2.5	Pass
				3.6	-1.795	-0.0021	-2.5 to 2.5	Pass
				4.2	-3.219	-0.0038	-2.5 to 2.5	Pass
		-30	3.6	-6.623	-0.0079	-2.5 to 2.5	Pass	
		-20	3.6	-4.621	-0.0055	-2.5 to 2.5	Pass	
		-10	3.6	-4.900	-0.0059	-2.5 to 2.5	Pass	
		0	3.6	-4.363	-0.0052	-2.5 to 2.5	Pass	
		10	3.6	-3.469	-0.0041	-2.5 to 2.5	Pass	
		30	3.6	-2.003	-0.0024	-2.5 to 2.5	Pass	
	40	3.6	-0.622	-0.0007	-2.5 to 2.5	Pass		
	50	3.6	-5.279	-0.0063	-2.5 to 2.5	Pass		
	846.6	20		3.3	-3.948	-0.0047	-2.5 to 2.5	Pass
				3.6	-0.737	-0.0009	-2.5 to 2.5	Pass
				4.2	-2.904	-0.0034	-2.5 to 2.5	Pass
		-30	3.6	-3.233	-0.0038	-2.5 to 2.5	Pass	
		-20	3.6	-4.900	-0.0058	-2.5 to 2.5	Pass	
		-10	3.6	-3.927	-0.0046	-2.5 to 2.5	Pass	
		0	3.6	-5.379	-0.0064	-2.5 to 2.5	Pass	
		10	3.6	-4.628	-0.0055	-2.5 to 2.5	Pass	
30		3.6	-0.615	-0.0007	-2.5 to 2.5	Pass		
40	3.6	-4.520	-0.0053	-2.5 to 2.5	Pass			
50	3.6	-1.960	-0.0023	-2.5 to 2.5	Pass			