

# 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	3.27	-1.667	-0.0009	-2.5 to 2.5	Pass
			3.85	0.722	0.0004	-2.5 to 2.5	Pass
			4.43	1.066	0.0006	-2.5 to 2.5	Pass
		-30	3.85	0.043	0.0000	-2.5 to 2.5	Pass
		-20	3.85	0.708	0.0004	-2.5 to 2.5	Pass
		-10	3.85	1.574	0.0008	-2.5 to 2.5	Pass
		0	3.85	-0.286	-0.0002	-2.5 to 2.5	Pass
		10	3.85	-0.193	-0.0001	-2.5 to 2.5	Pass
		30	3.85	-0.951	-0.0005	-2.5 to 2.5	Pass
		40	3.85	0.007	0.0000	-2.5 to 2.5	Pass
	50	3.85	0.422	0.0002	-2.5 to 2.5	Pass	
	1880	20	3.27	-0.129	-0.0001	-2.5 to 2.5	Pass
			3.85	-1.709	-0.0009	-2.5 to 2.5	Pass
			4.43	1.073	0.0006	-2.5 to 2.5	Pass
		-30	3.85	-0.894	-0.0005	-2.5 to 2.5	Pass
		-20	3.85	2.353	0.0013	-2.5 to 2.5	Pass
		-10	3.85	0.787	0.0004	-2.5 to 2.5	Pass
		0	3.85	1.874	0.0010	-2.5 to 2.5	Pass
		10	3.85	0.708	0.0004	-2.5 to 2.5	Pass
		30	3.85	1.373	0.0007	-2.5 to 2.5	Pass
		40	3.85	0.021	0.0000	-2.5 to 2.5	Pass
	50	3.85	2.789	0.0015	-2.5 to 2.5	Pass	
	1907.6	20	3.27	-6.609	-0.0035	-2.5 to 2.5	Pass
			3.85	-1.380	-0.0007	-2.5 to 2.5	Pass
			4.43	-9.177	-0.0048	-2.5 to 2.5	Pass
		-30	3.85	4.728	0.0025	-2.5 to 2.5	Pass
		-20	3.85	2.081	0.0011	-2.5 to 2.5	Pass
		-10	3.85	4.263	0.0022	-2.5 to 2.5	Pass
		0	3.85	2.718	0.0014	-2.5 to 2.5	Pass
		10	3.85	4.420	0.0023	-2.5 to 2.5	Pass
30		3.85	4.334	0.0023	-2.5 to 2.5	Pass	
40		3.85	3.040	0.0016	-2.5 to 2.5	Pass	
50	3.85	5.336	0.0028	-2.5 to 2.5	Pass		
HSDPA	1852.4	20	3.27	43.602	0.0235	-2.5 to 2.5	Pass
			3.85	43.845	0.0237	-2.5 to 2.5	Pass
			4.43	46.198	0.0249	-2.5 to 2.5	Pass
		-30	3.85	43.931	0.0237	-2.5 to 2.5	Pass
		-20	3.85	43.774	0.0236	-2.5 to 2.5	Pass
		-10	3.85	44.353	0.0239	-2.5 to 2.5	Pass
		0	3.85	45.619	0.0246	-2.5 to 2.5	Pass
		10	3.85	45.884	0.0248	-2.5 to 2.5	Pass
		30	3.85	46.327	0.0250	-2.5 to 2.5	Pass
		40	3.85	43.967	0.0237	-2.5 to 2.5	Pass
	50	3.85	44.961	0.0243	-2.5 to 2.5	Pass	
	1880	20	3.27	37.994	0.0202	-2.5 to 2.5	Pass
			3.85	34.497	0.0183	-2.5 to 2.5	Pass
			4.43	32.887	0.0175	-2.5 to 2.5	Pass
		-30	3.85	32.279	0.0172	-2.5 to 2.5	Pass
-20		3.85	31.321	0.0167	-2.5 to 2.5	Pass	

		-10	3.85	32.079	0.0171	-2.5 to 2.5	Pass		
		0	3.85	31.900	0.0170	-2.5 to 2.5	Pass		
		10	3.85	31.915	0.0170	-2.5 to 2.5	Pass		
		30	3.85	33.646	0.0179	-2.5 to 2.5	Pass		
		40	3.85	38.981	0.0207	-2.5 to 2.5	Pass		
	50	3.85	34.540	0.0184	-2.5 to 2.5	Pass			
	1907.6	20	3.27	39.911	0.0209	-2.5 to 2.5	Pass		
			3.85	41.699	0.0219	-2.5 to 2.5	Pass		
			4.43	41.664	0.0218	-2.5 to 2.5	Pass		
		-30	3.85	43.287	0.0227	-2.5 to 2.5	Pass		
		-20	3.85	43.058	0.0226	-2.5 to 2.5	Pass		
		-10	3.85	42.808	0.0224	-2.5 to 2.5	Pass		
		0	3.85	40.798	0.0214	-2.5 to 2.5	Pass		
		10	3.85	41.413	0.0217	-2.5 to 2.5	Pass		
		30	3.85	41.392	0.0217	-2.5 to 2.5	Pass		
		40	3.85	41.678	0.0218	-2.5 to 2.5	Pass		
		50	3.85	42.057	0.0220	-2.5 to 2.5	Pass		
		HSUPA	1852.4	20	3.27	-17.796	-0.0096	-2.5 to 2.5	Pass
					3.85	-20.263	-0.0109	-2.5 to 2.5	Pass
4.43					-19.605	-0.0106	-2.5 to 2.5	Pass	
-30	3.85			-18.768	-0.0101	-2.5 to 2.5	Pass		
-20	3.85			-18.504	-0.0100	-2.5 to 2.5	Pass		
-10	3.85			-27.294	-0.0147	-2.5 to 2.5	Pass		
0	3.85			-19.348	-0.0104	-2.5 to 2.5	Pass		
10	3.85			-15.550	-0.0084	-2.5 to 2.5	Pass		
30	3.85			-29.011	-0.0157	-2.5 to 2.5	Pass		
40	3.85			-16.580	-0.0090	-2.5 to 2.5	Pass		
50	3.85			-17.838	-0.0096	-2.5 to 2.5	Pass		
1880	20			3.27	-19.290	-0.0103	-2.5 to 2.5	Pass	
				3.85	-28.567	-0.0152	-2.5 to 2.5	Pass	
				4.43	-38.481	-0.0205	-2.5 to 2.5	Pass	
	-30		3.85	-30.227	-0.0161	-2.5 to 2.5	Pass		
	-20		3.85	-39.997	-0.0213	-2.5 to 2.5	Pass		
-10	3.85		-27.666	-0.0147	-2.5 to 2.5	Pass			
0	3.85		-30.048	-0.0160	-2.5 to 2.5	Pass			
10	3.85		-25.020	-0.0133	-2.5 to 2.5	Pass			
30	3.85	-28.610	-0.0152	-2.5 to 2.5	Pass				
40	3.85	-25.620	-0.0136	-2.5 to 2.5	Pass				
50	3.85	-39.132	-0.0208	-2.5 to 2.5	Pass				
1907.6	20	3.27	-25.606	-0.0134	-2.5 to 2.5	Pass			
		3.85	-17.395	-0.0091	-2.5 to 2.5	Pass			
		4.43	-13.912	-0.0073	-2.5 to 2.5	Pass			
	-30	3.85	-25.334	-0.0133	-2.5 to 2.5	Pass			
	-20	3.85	-12.302	-0.0064	-2.5 to 2.5	Pass			
	-10	3.85	-23.775	-0.0125	-2.5 to 2.5	Pass			
	0	3.85	-14.377	-0.0075	-2.5 to 2.5	Pass			
	10	3.85	-14.799	-0.0078	-2.5 to 2.5	Pass			
	30	3.85	-24.862	-0.0130	-2.5 to 2.5	Pass			
	40	3.85	-17.681	-0.0093	-2.5 to 2.5	Pass			
50	3.85	-13.018	-0.0068	-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	3.27	0.465	0.0006	-2.5 to 2.5	Pass
			3.85	1.631	0.0020	-2.5 to 2.5	Pass
			4.43	0.672	0.0008	-2.5 to 2.5	Pass
		-30	3.85	0.372	0.0005	-2.5 to 2.5	Pass
		-20	3.85	0.522	0.0006	-2.5 to 2.5	Pass
		-10	3.85	-0.393	-0.0005	-2.5 to 2.5	Pass
		0	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
		10	3.85	0.207	0.0003	-2.5 to 2.5	Pass
		30	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
	40	3.85	0.186	0.0002	-2.5 to 2.5	Pass	
	50	3.85	-0.801	-0.0010	-2.5 to 2.5	Pass	
	836.6	20	3.27	-0.036	0.0000	-2.5 to 2.5	Pass
			3.85	-0.265	-0.0003	-2.5 to 2.5	Pass
			4.43	-0.658	-0.0008	-2.5 to 2.5	Pass
		-30	3.85	-0.050	-0.0001	-2.5 to 2.5	Pass
		-20	3.85	-0.465	-0.0006	-2.5 to 2.5	Pass
		-10	3.85	0.758	0.0009	-2.5 to 2.5	Pass
		0	3.85	-0.923	-0.0011	-2.5 to 2.5	Pass
		10	3.85	-1.230	-0.0015	-2.5 to 2.5	Pass
		30	3.85	-0.200	-0.0002	-2.5 to 2.5	Pass
	40	3.85	-0.801	-0.0010	-2.5 to 2.5	Pass	
	50	3.85	0.157	0.0002	-2.5 to 2.5	Pass	
	846.6	20	3.27	1.152	0.0014	-2.5 to 2.5	Pass
			3.85	0.515	0.0006	-2.5 to 2.5	Pass
			4.43	0.973	0.0011	-2.5 to 2.5	Pass
		-30	3.85	3.369	0.0040	-2.5 to 2.5	Pass
		-20	3.85	3.068	0.0036	-2.5 to 2.5	Pass
		-10	3.85	4.098	0.0048	-2.5 to 2.5	Pass
		0	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
		10	3.85	0.265	0.0003	-2.5 to 2.5	Pass
30		3.85	2.968	0.0035	-2.5 to 2.5	Pass	
40	3.85	-0.694	-0.0008	-2.5 to 2.5	Pass		
50	3.85	0.265	0.0003	-2.5 to 2.5	Pass		
HSDPA	826.4	20	3.27	6.917	0.0084	-2.5 to 2.5	Pass
			3.85	6.938	0.0084	-2.5 to 2.5	Pass
			4.43	6.573	0.0080	-2.5 to 2.5	Pass
		-30	3.85	6.137	0.0074	-2.5 to 2.5	Pass
		-20	3.85	6.931	0.0084	-2.5 to 2.5	Pass
		-10	3.85	7.145	0.0086	-2.5 to 2.5	Pass
		0	3.85	6.909	0.0084	-2.5 to 2.5	Pass
		10	3.85	5.822	0.0070	-2.5 to 2.5	Pass
		30	3.85	6.409	0.0078	-2.5 to 2.5	Pass
	40	3.85	6.688	0.0081	-2.5 to 2.5	Pass	
	50	3.85	6.223	0.0075	-2.5 to 2.5	Pass	
	836.6	20	3.27	4.621	0.0055	-2.5 to 2.5	Pass
			3.85	6.330	0.0076	-2.5 to 2.5	Pass

			4.43	5.114	0.0061	-2.5 to 2.5	Pass	
		-30	3.85	5.972	0.0071	-2.5 to 2.5	Pass	
		-20	3.85	5.951	0.0071	-2.5 to 2.5	Pass	
		-10	3.85	7.188	0.0086	-2.5 to 2.5	Pass	
		0	3.85	5.350	0.0064	-2.5 to 2.5	Pass	
		10	3.85	4.992	0.0060	-2.5 to 2.5	Pass	
		30	3.85	6.902	0.0083	-2.5 to 2.5	Pass	
		40	3.85	5.035	0.0060	-2.5 to 2.5	Pass	
	50	3.85	6.430	0.0077	-2.5 to 2.5	Pass		
	846.6	20		3.27	7.203	0.0085	-2.5 to 2.5	Pass
				3.85	7.496	0.0089	-2.5 to 2.5	Pass
				4.43	8.461	0.0100	-2.5 to 2.5	Pass
		-30	3.85	6.831	0.0081	-2.5 to 2.5	Pass	
		-20	3.85	7.710	0.0091	-2.5 to 2.5	Pass	
		-10	3.85	7.424	0.0088	-2.5 to 2.5	Pass	
		0	3.85	6.273	0.0074	-2.5 to 2.5	Pass	
		10	3.85	6.630	0.0078	-2.5 to 2.5	Pass	
		30	3.85	6.766	0.0080	-2.5 to 2.5	Pass	
40		3.85	4.699	0.0056	-2.5 to 2.5	Pass		
50	3.85	6.230	0.0074	-2.5 to 2.5	Pass			
HSUPA	826.4	20		3.27	-8.562	-0.0104	-2.5 to 2.5	Pass
				3.85	-8.061	-0.0098	-2.5 to 2.5	Pass
				4.43	-11.280	-0.0136	-2.5 to 2.5	Pass
		-30	3.85	-8.347	-0.0101	-2.5 to 2.5	Pass	
		-20	3.85	-7.932	-0.0096	-2.5 to 2.5	Pass	
		-10	3.85	-11.058	-0.0134	-2.5 to 2.5	Pass	
		0	3.85	-8.769	-0.0106	-2.5 to 2.5	Pass	
		10	3.85	-9.406	-0.0114	-2.5 to 2.5	Pass	
		30	3.85	-8.197	-0.0099	-2.5 to 2.5	Pass	
		40	3.85	-8.090	-0.0098	-2.5 to 2.5	Pass	
	50	3.85	-11.036	-0.0134	-2.5 to 2.5	Pass		
	836.6	20		3.27	-11.108	-0.0133	-2.5 to 2.5	Pass
				3.85	-8.626	-0.0103	-2.5 to 2.5	Pass
				4.43	-7.832	-0.0094	-2.5 to 2.5	Pass
		-30	3.85	-8.733	-0.0104	-2.5 to 2.5	Pass	
		-20	3.85	-10.536	-0.0126	-2.5 to 2.5	Pass	
		-10	3.85	-8.461	-0.0101	-2.5 to 2.5	Pass	
		0	3.85	-7.081	-0.0085	-2.5 to 2.5	Pass	
		10	3.85	-8.190	-0.0098	-2.5 to 2.5	Pass	
		30	3.85	-10.457	-0.0125	-2.5 to 2.5	Pass	
		40	3.85	-10.643	-0.0127	-2.5 to 2.5	Pass	
	50	3.85	-11.323	-0.0135	-2.5 to 2.5	Pass		
	846.6	20		3.27	-5.922	-0.0070	-2.5 to 2.5	Pass
				3.85	-6.409	-0.0076	-2.5 to 2.5	Pass
				4.43	-6.652	-0.0079	-2.5 to 2.5	Pass
		-30	3.85	-6.022	-0.0071	-2.5 to 2.5	Pass	
		-20	3.85	-7.825	-0.0092	-2.5 to 2.5	Pass	
		-10	3.85	-6.423	-0.0076	-2.5 to 2.5	Pass	
		0	3.85	-5.836	-0.0069	-2.5 to 2.5	Pass	
		10	3.85	-6.437	-0.0076	-2.5 to 2.5	Pass	
30		3.85	-7.660	-0.0090	-2.5 to 2.5	Pass		
40		3.85	-6.802	-0.0080	-2.5 to 2.5	Pass		
50	3.85	-6.194	-0.0073	-2.5 to 2.5	Pass			