



6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0







6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0







6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0







6.1.1.2.5 Test Bandwidth = 15

6.1.1.2.5.1 Test Channel = LCH

6.1.1.2.5.1.1 Test RB = RB1#0







6.1.1.2.5.2 Test Channel = MCH

6.1.1.2.5.2.1 Test RB = RB1#0







6.1.1.2.5.3 Test Channel = HCH

6.1.1.2.5.3.1 Test RB = RB1#0







6.1.1.2.6 Test Bandwidth = 20

6.1.1.2.6.1 Test Channel = LCH

6.1.1.2.6.1.1 Test RB = RB1#0







6.1.1.2.6.2 Test Channel = MCH

6.1.1.2.6.2.1 Test RB = RB1#0







6.1.1.2.6.3 Test Channel = HCH

6.1.1.2.6.3.1 Test RB = RB1#0







7Appendix_G Frequency Stability

7.1 For LTE

7.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND2	LTE/TM1	1.4	LCH	TN	VL	-2.13	-0.00115	PASS
					VN	-4.31	-0.00233	PASS
					VH	1.30	0.0007	PASS
			MCH	TN	VL	-4.85	-0.00258	PASS
					VN	-4.58	-0.00244	PASS
					VH	-2.03	-0.00108	PASS
			HCH	TN	VL	-1.44	-0.00075	PASS
					VN	0.97	0.00051	PASS
					VH	0.80	0.00042	PASS
		3	LCH	TN	VL	-2.33	-0.00126	PASS
					VN	-1.29	-0.0007	PASS
					VH	-1.70	-0.00092	PASS
			MCH	TN	VL	-3.13	-0.00166	PASS
					VN	-4.19	-0.00223	PASS
					VH	-4.76	-0.00253	PASS
			HCH	TN	VL	0.01	0.00001	PASS
					VN	-1.06	-0.00056	PASS
					VH	1.54	0.00081	PASS
		5	LCH	TN	VL	-0.67	-0.00036	PASS
					VN	-2.15	-0.00116	PASS
					VH	-1.02	-0.00055	PASS
			MCH	TN	VL	-2.40	-0.00128	PASS
					VN	-3.45	-0.00184	PASS
					VH	-3.05	-0.00162	PASS
			HCH	TN	VL	0.84	0.00044	PASS
					VN	0.01	0.00001	PASS
					VH	-0.03	-0.00002	PASS
		10	LCH	TN	VL	-4.02	-0.00217	PASS
					VN	-3.36	-0.00181	PASS
					VH	-2.63	-0.00142	PASS
MCH	TN		VL	-2.60	-0.00138	PASS		
			VN	-4.16	-0.00221	PASS		

		15	HCH	TN	VH	-4.53	-0.00241	PASS			
					VL	1.66	0.00087	PASS			
					VN	0.49	0.00026	PASS			
					VH	0.66	0.00035	PASS			
			LCH	TN	VL	-2.43	-0.00131	PASS			
					VN	-7.17	-0.00386	PASS			
					VH	-3.43	-0.00185	PASS			
					MCH	TN	VL	-3.13	-0.00166	PASS	
							VN	-3.71	-0.00197	PASS	
							VH	-2.68	-0.00143	PASS	
			HCH	TN	VL	-3.42	-0.0018	PASS			
					VN	-2.36	-0.00124	PASS			
		VH			-3.08	-0.00162	PASS				
		20	LCH	TN	VL	0.23	0.00012	PASS			
					VN	-3.88	-0.00209	PASS			
					VH	-2.93	-0.00158	PASS			
					MCH	TN	VL	-3.12	-0.00166	PASS	
							VN	-2.92	-0.00155	PASS	
							VH	-2.92	-0.00155	PASS	
			HCH	TN	VL	-3.65	-0.00192	PASS			
					VN	-4.76	-0.00251	PASS			
					VH	-4.41	-0.00232	PASS			
			LTE/TM2	1.4	LCH	TN	VL	-1.32	-0.00071	PASS	
							VN	-0.72	-0.00039	PASS	
							VH	-1.03	-0.00056	PASS	
		MCH					TN	VL	-0.77	-0.00041	PASS
								VN	-4.02	-0.00214	PASS
								VH	-2.65	-0.00141	PASS
		HCH			TN	VL	0.96	0.0005	PASS		
						VN	0.64	0.00034	PASS		
						VH	-0.29	-0.00015	PASS		
		3			LCH	TN	VL	-3.50	-0.00189	PASS	
							VN	-1.77	-0.00096	PASS	
							VH	-2.20	-0.00119	PASS	
				MCH			TN	VL	-4.28	-0.00228	PASS
								VN	-4.76	-0.00253	PASS
								VH	-4.94	-0.00263	PASS
				HCH	TN	VL	-0.49	-0.00026	PASS		
						VN	0.00	0	PASS		
						VH	-0.46	-0.00024	PASS		
		5		LCH	TN	VL	-1.56	-0.00084	PASS		
						VN	-1.56	-0.00084	PASS		

		10	MCH	TN	VH	-0.86	-0.00046	PASS	
					VL	-1.97	-0.00105	PASS	
					VN	-5.09	-0.00271	PASS	
					VH	-4.48	-0.00238	PASS	
			HCH	TN	VL	-0.17	-0.00009	PASS	
					VN	0.64	0.00034	PASS	
					VH	0.56	0.00029	PASS	
					VL	-2.43	-0.00131	PASS	
			LCH	TN	VN	-2.20	-0.00119	PASS	
					VH	-2.66	-0.00143	PASS	
					VL	-3.46	-0.00184	PASS	
				MCH	TN	VN	-2.45	-0.0013	PASS
		VH				-3.55	-0.00189	PASS	
		VL				1.47	0.00077	PASS	
		HCH	TN	VN	1.40	0.00073	PASS		
				VH	0.72	0.00038	PASS		
				VL	-2.93	-0.00158	PASS		
		15	LCH	TN	VN	-3.22	-0.00173	PASS	
					VH	-4.78	-0.00257	PASS	
					VL	-4.03	-0.00214	PASS	
			MCH	TN	VN	-3.30	-0.00176	PASS	
					VH	-2.53	-0.00135	PASS	
					VL	-6.19	-0.00325	PASS	
			HCH	TN	VN	-4.89	-0.00257	PASS	
					VH	-4.78	-0.00251	PASS	
					VL	1.72	0.00092	PASS	
			20	LCH	TN	VN	0.50	0.00027	PASS
						VH	-0.03	-0.00002	PASS
						VL	-3.72	-0.00198	PASS
		MCH		TN	VN	-4.19	-0.00223	PASS	
					VH	-3.86	-0.00205	PASS	
					VL	-2.29	-0.00121	PASS	
		HCH		TN	VN	-4.43	-0.00233	PASS	
					VH	-2.56	-0.00135	PASS	
					VH	-2.56	-0.00135	PASS	

7.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND2	LTE/TM1	1.4	LCH	VN	-30	-3.29	-0.00178	PASS
					-20	-2.78	-0.0015	PASS

					-10	-3.03	-0.00164	PASS
					0	-1.53	-0.00083	PASS
					10	-0.90	-0.00049	PASS
					20	-1.95	-0.00105	PASS
					30	-3.10	-0.00168	PASS
					40	-5.89	-0.00318	PASS
					50	-1.82	-0.00098	PASS
			MCH	VN	-30	-3.98	-0.00212	PASS
					-20	-5.05	-0.00269	PASS
					-10	-5.06	-0.00269	PASS
					0	-5.66	-0.00301	PASS
					10	-4.19	-0.00223	PASS
					20	-3.42	-0.00182	PASS
					30	-4.65	-0.00247	PASS
			HCH	VN	40	-4.82	-0.00256	PASS
					50	-3.55	-0.00189	PASS
					-30	1.57	0.00082	PASS
					-20	0.01	0.00001	PASS
					-10	-1.40	-0.00073	PASS
					0	0.96	0.0005	PASS
					10	1.89	0.00099	PASS
			LCH	VN	20	-0.30	-0.00016	PASS
					30	0.17	0.00009	PASS
					40	1.93	0.00101	PASS
					50	-0.07	-0.00004	PASS
					-30	-3.20	-0.00173	PASS
					-20	-4.12	-0.00223	PASS
					-10	-4.45	-0.0024	PASS
			MCH	VN	0	-1.66	-0.0009	PASS
					10	-1.44	-0.00078	PASS
					20	-2.75	-0.00149	PASS
					30	-2.68	-0.00145	PASS
					40	-2.30	-0.00124	PASS
					50	-3.00	-0.00162	PASS
					-30	-4.36	-0.00232	PASS
					-20	-4.45	-0.00237	PASS
					-10	-5.32	-0.00283	PASS
					0	-4.03	-0.00214	PASS
					10	-3.71	-0.00197	PASS
					20	-1.97	-0.00105	PASS
30	-3.19	-0.0017			PASS			
40	-3.09	-0.00164			PASS			

			HCH	VN	50	-4.05	-0.00215	PASS
					-30	0.77	0.0004	PASS
					-20	1.50	0.00079	PASS
					-10	1.39	0.00073	PASS
					0	2.05	0.00107	PASS
					10	0.60	0.00031	PASS
					20	-0.41	-0.00021	PASS
					30	0.41	0.00021	PASS
					40	1.22	0.00064	PASS
					50	0.83	0.00043	PASS
		5	LCH	VN	-30	-2.68	-0.00145	PASS
					-20	-2.75	-0.00148	PASS
					-10	-1.10	-0.00059	PASS
					0	-1.77	-0.00096	PASS
					10	-2.13	-0.00115	PASS
					20	-1.39	-0.00075	PASS
					30	-2.78	-0.0015	PASS
					40	-3.62	-0.00195	PASS
			50	-1.26	-0.00068	PASS		
			MCH	VN	-30	-2.00	-0.00106	PASS
					-20	-3.58	-0.0019	PASS
					-10	-3.65	-0.00194	PASS
					0	-3.20	-0.0017	PASS
					10	-3.39	-0.0018	PASS
					20	-2.89	-0.00154	PASS
					30	-2.98	-0.00159	PASS
					40	-3.00	-0.0016	PASS
			50	-4.82	-0.00256	PASS		
		HCH	VN	-30	-1.73	-0.00091	PASS	
				-20	0.93	0.00049	PASS	
				-10	-0.37	-0.00019	PASS	
				0	-0.59	-0.00031	PASS	
				10	-0.72	-0.00038	PASS	
				20	1.27	0.00067	PASS	
				30	0.17	0.00009	PASS	
				40	-1.07	-0.00056	PASS	
		50	-0.53	-0.00028	PASS			
		10	LCH	VN	-30	-3.03	-0.00163	PASS
					-20	-2.65	-0.00143	PASS
					-10	-2.99	-0.00161	PASS
0	-2.50				-0.00135	PASS		
10	-1.62				-0.00087	PASS		

					20	-1.77	-0.00095	PASS		
					30	-2.36	-0.00127	PASS		
					40	-0.97	-0.00052	PASS		
					50	-2.99	-0.00161	PASS		
			MCH	VN	-30	-3.96	-0.00211	PASS		
					-20	-3.39	-0.0018	PASS		
					-10	-3.35	-0.00178	PASS		
					0	-3.75	-0.00199	PASS		
					10	-4.46	-0.00237	PASS		
					20	-4.18	-0.00222	PASS		
					30	-3.35	-0.00178	PASS		
					40	-3.33	-0.00177	PASS		
					50	-2.96	-0.00157	PASS		
					HCH	VN	-30	0.64	0.00034	PASS
							-20	0.06	0.00003	PASS
							-10	0.14	0.00007	PASS
			0	0.97			0.00051	PASS		
			10	0.63			0.00033	PASS		
			20	1.56			0.00082	PASS		
			30	0.63			0.00033	PASS		
		40	1.47	0.00077			PASS			
		50	0.57	0.0003	PASS					
		15	LCH	VN	-30	-3.78	-0.00203	PASS		
					-20	-3.26	-0.00176	PASS		
					-10	-2.60	-0.0014	PASS		
					0	-3.15	-0.0017	PASS		
					10	-4.22	-0.00227	PASS		
					20	-2.70	-0.00145	PASS		
					30	3.38	0.00182	PASS		
					40	33.99	0.0183	PASS		
					50	45.28	0.02438	PASS		
					MCH	VN	-30	-3.69	-0.00196	PASS
							-20	-4.56	-0.00243	PASS
							-10	-4.81	-0.00256	PASS
			0	-3.82			-0.00203	PASS		
			10	-2.89			-0.00154	PASS		
			20	-3.62			-0.00193	PASS		
			30	-2.40			-0.00128	PASS		
			40	-2.53			-0.00135	PASS		
			50	-4.19	-0.00223	PASS				
HCH	VN		-30	-2.66	-0.0014	PASS				
			-20	-2.86	-0.0015	PASS				

					-10	-2.52	-0.00132	PASS		
					0	-4.15	-0.00218	PASS		
					10	-3.22	-0.00169	PASS		
					20	-1.12	-0.00059	PASS		
					30	-2.93	-0.00154	PASS		
					40	-1.00	-0.00053	PASS		
					50	-2.26	-0.00119	PASS		
					LCH	VN	-30	-4.01	-0.00216	PASS
							-20	0.79	0.00042	PASS
							-10	0.09	0.00005	PASS
			0	3.09			0.00166	PASS		
			10	0.94			0.00051	PASS		
			20	0.90			0.00048	PASS		
			30	0.27			0.00015	PASS		
			40	-8.70			-0.00468	PASS		
			50	1.32			0.00071	PASS		
			MCH	VN			-30	-3.55	-0.00189	PASS
					-20	-4.06	-0.00216	PASS		
					-10	-2.88	-0.00153	PASS		
					0	-2.42	-0.00129	PASS		
	10	-3.40			-0.00181	PASS				
	20	-3.43			-0.00182	PASS				
	30	-3.10			-0.00165	PASS				
	40	-4.78			-0.00254	PASS				
	50	-4.68			-0.00249	PASS				
	HCH	VN			-30	-0.11	-0.00006	PASS		
			-20	0.80	0.00042	PASS				
			-10	0.37	0.00019	PASS				
			0	-0.06	-0.00003	PASS				
			10	1.37	0.00072	PASS				
			20	-0.01	-0.00001	PASS				
			30	-0.56	-0.00029	PASS				
			40	1.90	0.001	PASS				
			50	0.41	0.00022	PASS				
			-30	0.64	0.00035	PASS				
			-20	-0.10	-0.00005	PASS				
			-10	-2.10	-0.00113	PASS				
			0	-2.73	-0.00148	PASS				
			10	-2.60	-0.0014	PASS				
			20	-3.60	-0.00195	PASS				
30			-2.03	-0.0011	PASS					
LTE/TM2	1.4	LCH	VN	40	-1.70	-0.00092	PASS			

		MCH	VN	50	-1.89	-0.00102	PASS	
				-30	-3.33	-0.00177	PASS	
				-20	-3.91	-0.00208	PASS	
				-10	-2.85	-0.00152	PASS	
				0	-2.22	-0.00118	PASS	
				10	-1.53	-0.00081	PASS	
				20	-3.85	-0.00205	PASS	
				30	-1.20	-0.00064	PASS	
				40	-1.99	-0.00106	PASS	
				50	-5.95	-0.00316	PASS	
			HCH	VN	-30	1.34	0.0007	PASS
					-20	-0.39	-0.0002	PASS
					-10	-1.10	-0.00058	PASS
					0	-1.00	-0.00052	PASS
					10	3.08	0.00161	PASS
					20	1.02	0.00053	PASS
					30	2.12	0.00111	PASS
					40	0.73	0.00038	PASS
		50	0.43	0.00023	PASS			
		LCH	VN	-30	-0.20	-0.00011	PASS	
				-20	-2.79	-0.00151	PASS	
				-10	-1.47	-0.00079	PASS	
				0	-2.35	-0.00127	PASS	
				10	-2.93	-0.00158	PASS	
				20	-2.56	-0.00138	PASS	
				30	-2.55	-0.00138	PASS	
				40	-2.62	-0.00142	PASS	
				50	-2.09	-0.00113	PASS	
			MCH	VN	-30	-2.70	-0.00144	PASS
					-20	-3.88	-0.00206	PASS
					-10	-3.26	-0.00173	PASS
					0	-2.85	-0.00152	PASS
					10	-3.73	-0.00198	PASS
20	-5.34				-0.00284	PASS		
HCH	VN	30	-2.56	-0.00136	PASS			
		40	-3.23	-0.00172	PASS			
		50	-2.57	-0.00137	PASS			
		-30	1.36	0.00071	PASS			
		-20	1.60	0.00084	PASS			
3	VN	-10	0.57	0.0003	PASS			
		0	-0.19	-0.0001	PASS			
		10	-0.47	-0.00025	PASS			

					20	-1.13	-0.00059	PASS		
					30	1.17	0.00061	PASS		
					40	-0.17	-0.00009	PASS		
					50	0.59	0.00031	PASS		
		5	LCH	VN	-30	-1.40	-0.00076	PASS		
					-20	-0.64	-0.00035	PASS		
					-10	-1.59	-0.00086	PASS		
					0	-1.86	-0.001	PASS		
					10	-2.20	-0.00119	PASS		
					20	-1.65	-0.00089	PASS		
					30	-1.20	-0.00065	PASS		
					40	-2.45	-0.00132	PASS		
					50	-1.23	-0.00066	PASS		
					MCH	VN	-30	-3.52	-0.00187	PASS
							-20	-3.88	-0.00206	PASS
							-10	-2.42	-0.00129	PASS
			0	-2.96			-0.00157	PASS		
			10	-3.52			-0.00187	PASS		
			20	-2.93			-0.00156	PASS		
			30	-2.59			-0.00138	PASS		
			40	-2.37			-0.00126	PASS		
			HCH	VN	-30	0.07	0.00004	PASS		
					-20	-1.62	-0.00085	PASS		
					-10	1.36	0.00071	PASS		
					0	-0.74	-0.00039	PASS		
					10	0.96	0.0005	PASS		
					20	-0.82	-0.00043	PASS		
					30	-0.29	-0.00015	PASS		
					40	0.04	0.00002	PASS		
			10	LCH	VN	-30	-2.47	-0.00133	PASS	
						-20	-2.65	-0.00143	PASS	
						-10	-2.95	-0.00159	PASS	
		0				-3.33	-0.0018	PASS		
		10				-3.60	-0.00194	PASS		
		20				-2.46	-0.00133	PASS		
		30				-2.05	-0.00111	PASS		
		40				-2.36	-0.00127	PASS		
		50				-1.54	-0.00083	PASS		
		MCH				VN	-30	-3.63	-0.00193	PASS
				-20	-2.72		-0.00145	PASS		

					-10	-3.10	-0.00165	PASS
					0	-3.26	-0.00173	PASS
					10	-3.28	-0.00174	PASS
					20	-3.08	-0.00164	PASS
					30	-3.39	-0.0018	PASS
					40	-3.89	-0.00207	PASS
					50	-2.35	-0.00125	PASS
			HCH	VN	-30	0.66	0.00035	PASS
					-20	2.29	0.0012	PASS
					-10	1.50	0.00079	PASS
					0	0.89	0.00047	PASS
					10	2.35	0.00123	PASS
					20	0.73	0.00038	PASS
					30	1.20	0.00063	PASS
		15	LCH	VN	-30	-3.99	-0.00215	PASS
					-20	-11.04	-0.00594	PASS
					-10	-2.86	-0.00154	PASS
					0	-4.12	-0.00222	PASS
					10	-3.53	-0.0019	PASS
					20	-0.63	-0.00034	PASS
					30	-6.31	-0.0034	PASS
					40	-3.33	-0.00179	PASS
			MCH	VN	-30	-3.91	-0.00208	PASS
					-20	-5.04	-0.00268	PASS
					-10	-4.13	-0.0022	PASS
					0	-4.16	-0.00221	PASS
					10	-3.99	-0.00212	PASS
					20	-2.80	-0.00149	PASS
					30	-3.65	-0.00194	PASS
					40	-3.55	-0.00189	PASS
		HCH	VN	-30	-3.36	-0.00177	PASS	
				-20	-3.08	-0.00162	PASS	
				-10	-3.10	-0.00163	PASS	
				0	-2.07	-0.00109	PASS	
				10	-3.59	-0.00189	PASS	
				20	-3.38	-0.00178	PASS	
				30	-4.11	-0.00216	PASS	
				40	-3.81	-0.002	PASS	

					50	-3.52	-0.00185	PASS
		20	LCH	VN	-30	0.09	0.00005	PASS
					-20	1.16	0.00062	PASS
					-10	0.43	0.00023	PASS
					0	0.80	0.00043	PASS
					10	1.42	0.00076	PASS
					20	1.37	0.00074	PASS
					30	0.76	0.00041	PASS
					40	0.63	0.00034	PASS
					50	-0.06	-0.00003	PASS
			MCH	VN	-30	-3.71	-0.00197	PASS
					-20	-3.36	-0.00179	PASS
					-10	-3.10	-0.00165	PASS
					0	-2.69	-0.00143	PASS
					10	-3.73	-0.00198	PASS
					20	-3.23	-0.00172	PASS
					30	-4.01	-0.00213	PASS
					40	-4.19	-0.00223	PASS
			50	-3.85	-0.00205	PASS		
			HCH	VN	-30	-3.59	-0.00189	PASS
					-20	-3.39	-0.00178	PASS
					-10	-2.72	-0.00143	PASS
					0	-2.65	-0.00139	PASS
					10	-1.85	-0.00097	PASS
					20	-3.08	-0.00162	PASS
					30	-2.60	-0.00137	PASS
					40	-2.72	-0.00143	PASS
			50	-2.99	-0.00157	PASS		

END