





6.1.1.2.5.3 Test Channel = HCH

6.1.1.2.5.3.1 Test RB = RB1#0



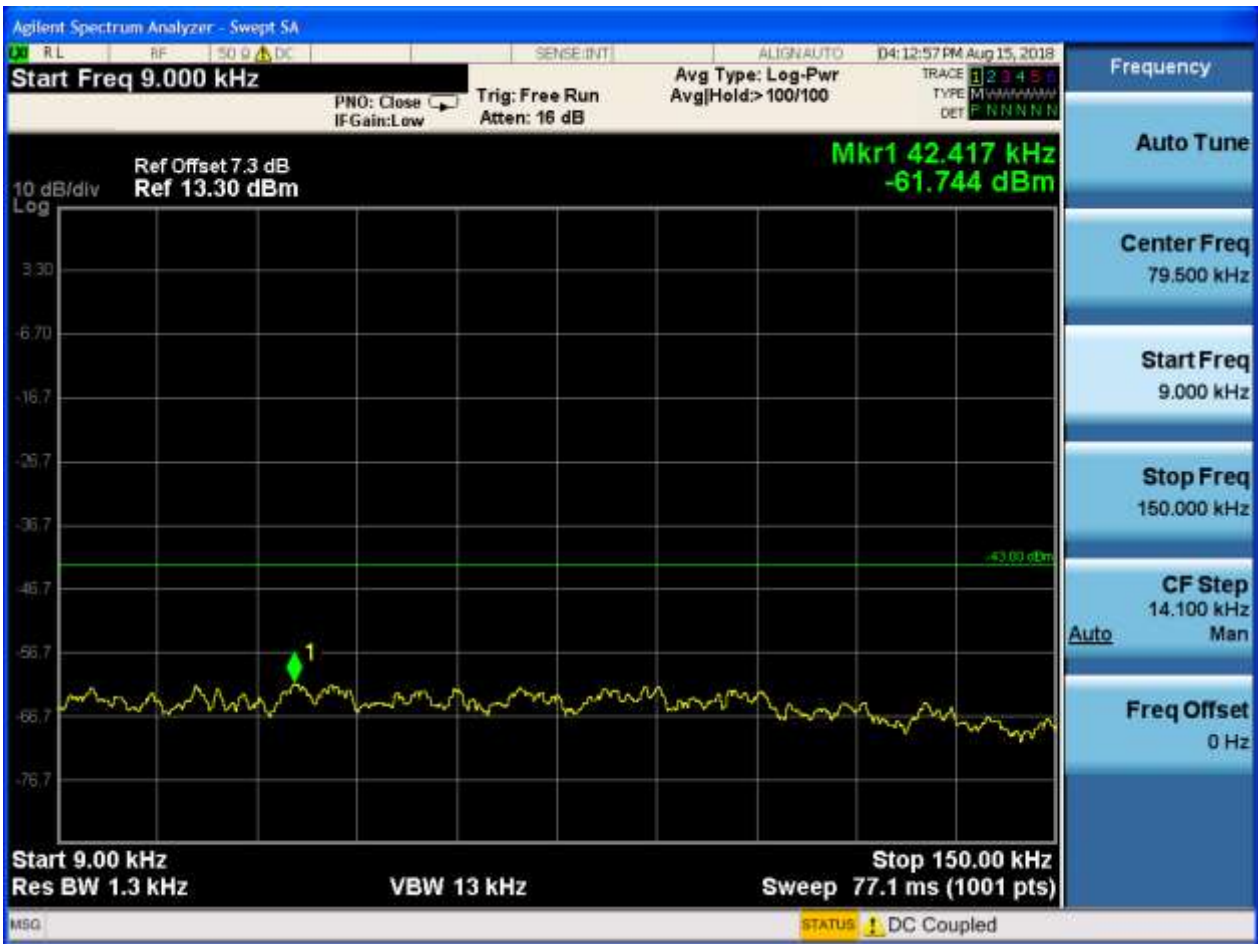




6.1.1.2.6 Test Bandwidth = 20

6.1.1.2.6.1 Test Channel = LCH

6.1.1.2.6.1.1 Test RB = RB1#0

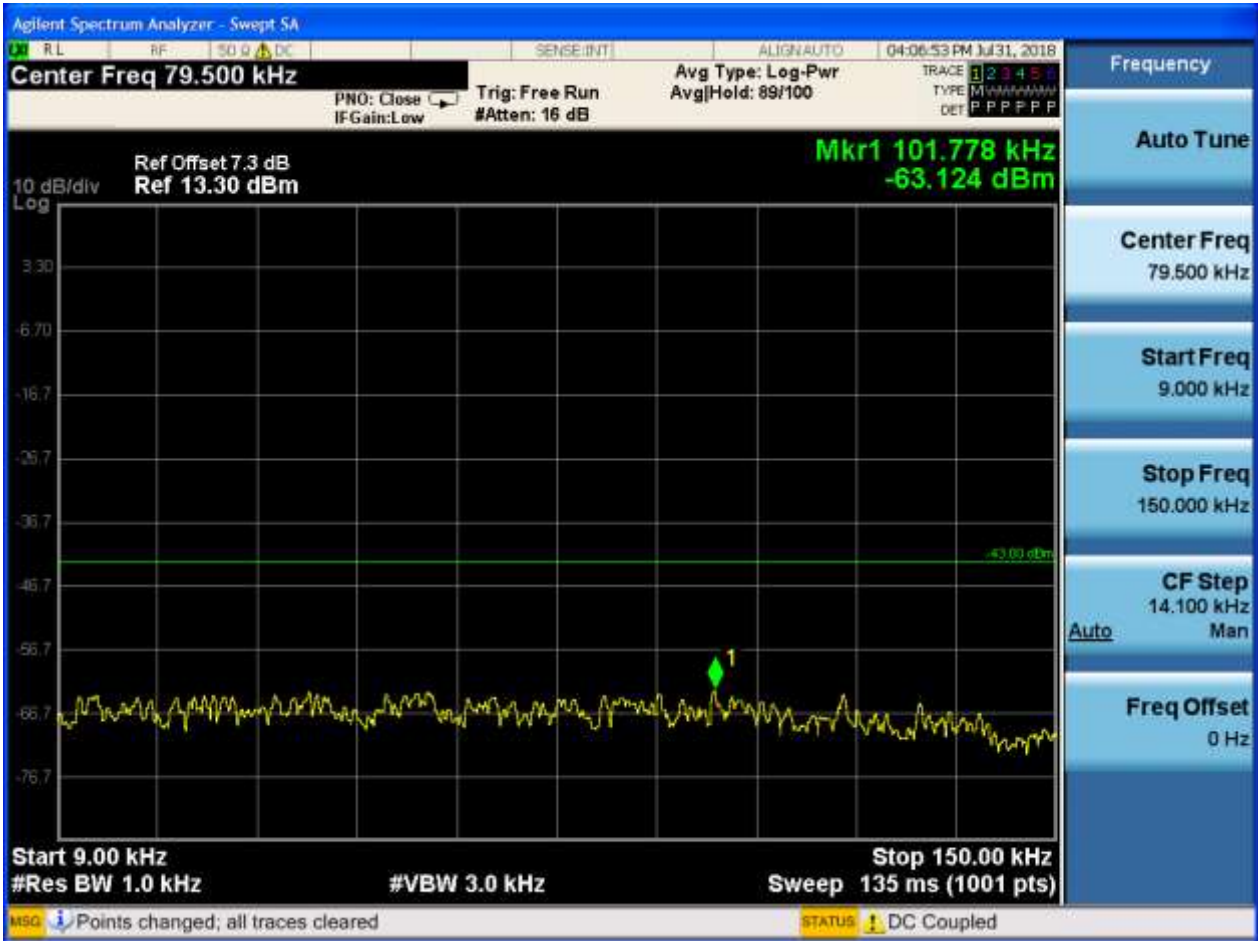






6.1.1.2.6.2 Test Channel = MCH

6.1.1.2.6.2.1 Test RB = RB1#0

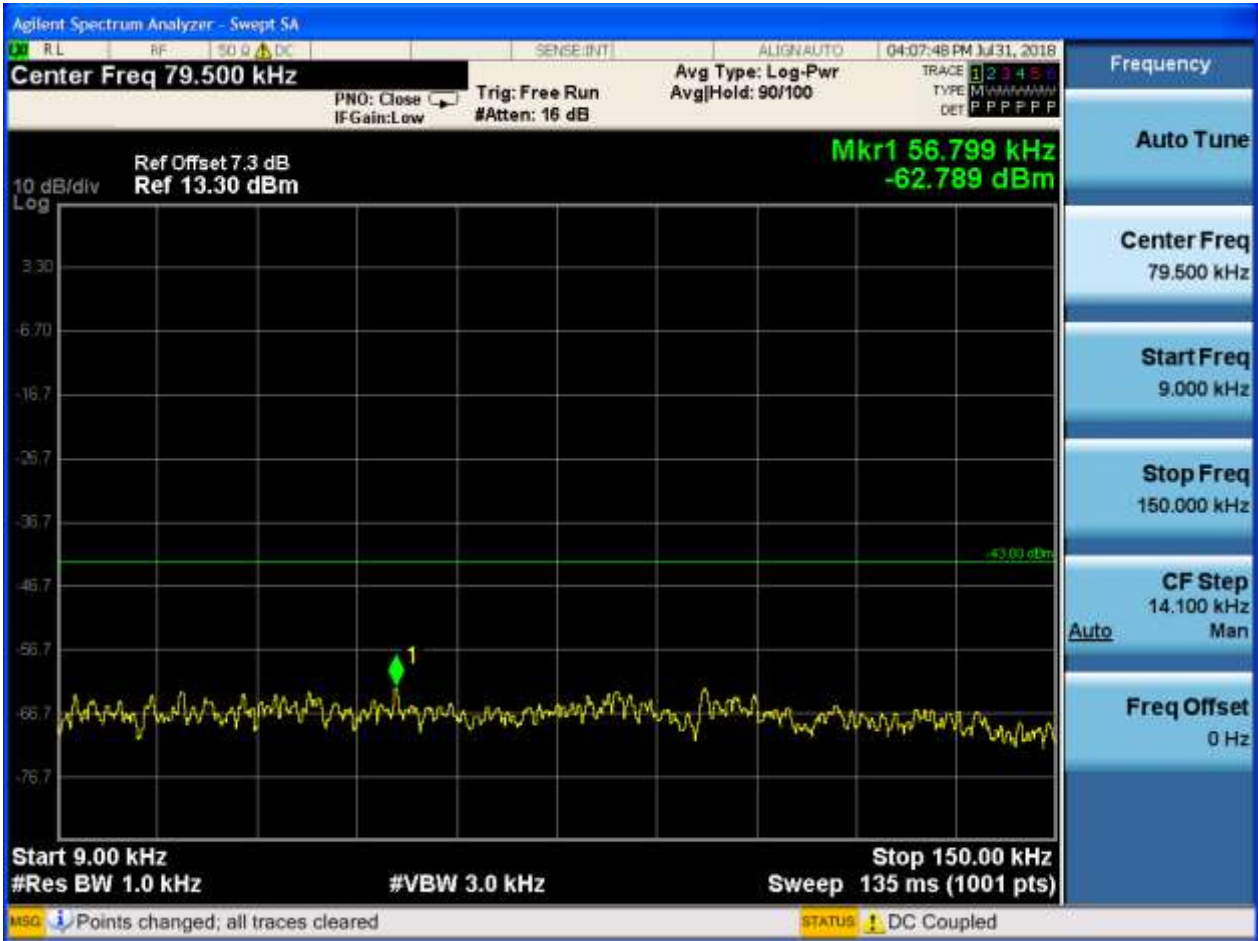






6.1.1.2.6.3 Test Channel = HCH

6.1.1.2.6.3.1 Test RB = RB1#0









7Appendix_G: Frequency Stability

7.1 For LTE

7.1.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND4	LTE/TM1	1.4	LCH	TN	VL	-35.98	-0.02103	PASS
					VN	-0.2	-0.00012	PASS
					VH	-16.29	-0.00952	PASS
			MCH	TN	VL	1.47	0.00085	PASS
					VN	3.02	0.00174	PASS
					VH	4.75	0.00274	PASS
			HCH	TN	VL	-0.67	-0.00038	PASS
					VN	-4.13	-0.00235	PASS
					VH	-4.63	-0.00264	PASS
		3	LCH	TN	VL	-3.03	-0.00177	PASS
					VN	-12.9	-0.00754	PASS
					VH	-6.15	-0.00359	PASS
			MCH	TN	VL	-3	-0.00173	PASS
					VN	-4.08	-0.00235	PASS
					VH	6.88	0.00397	PASS
			HCH	TN	VL	-0.62	-0.00035	PASS
					VN	-5.89	-0.00336	PASS
					VH	-7.6	-0.00433	PASS
		5	LCH	TN	VL	-5.32	-0.00311	PASS
					VN	-6.07	-0.00354	PASS
					VH	-2.39	-0.0014	PASS
			MCH	TN	VL	4.22	0.00244	PASS
					VN	0.84	0.00048	PASS
					VH	-2.63	-0.00152	PASS
			HCH	TN	VL	-2.96	-0.00169	PASS
					VN	0.26	0.00015	PASS
					VH	-0.77	-0.00044	PASS
10	LCH	TN	VL	-3.98	-0.00232	PASS		
			VN	-2.4	-0.0014	PASS		
			VH	-3.58	-0.00209	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
			MCH	TN	VL	-2.57	-0.00148	PASS	
					VN	-1.34	-0.00077	PASS	
					VH	0.67	0.00039	PASS	
			HCH	TN	VL	-4.19	-0.00239	PASS	
					VN	0.07	0.00004	PASS	
					VH	0.82	0.00047	PASS	
			15	LCH	TN	VL	-10.57	-0.00615	PASS
						VN	-8.08	-0.0047	PASS
						VH	-9.24	-0.00538	PASS
		MCH		TN	VL	-2.17	-0.00125	PASS	
					VN	-1.34	-0.00077	PASS	
					VH	-2.93	-0.00169	PASS	
		HCH		TN	VL	-1.06	-0.00061	PASS	
					VN	-2.45	-0.0014	PASS	
					VH	-1.3	-0.00074	PASS	
		20	LCH	TN	VL	-15.38	-0.00894	PASS	
					VN	-18.07	-0.01051	PASS	
					VH	-10.73	-0.00624	PASS	
			MCH	TN	VL	-8	-0.00462	PASS	
					VN	-2.39	-0.00138	PASS	
					VH	-2.35	-0.00136	PASS	
			HCH	TN	VL	-0.66	-0.00038	PASS	
					VN	0.69	0.0004	PASS	
					VH	-2.66	-0.00152	PASS	
		LTE/TM2	1.4	LCH	TN	VL	-6.29	-0.00368	PASS
						VN	-47.48	-0.02775	PASS
						VH	-45.72	-0.02673	PASS
				MCH	TN	VL	3.86	0.00223	PASS
						VN	2.82	0.00163	PASS
						VH	2.86	0.00165	PASS
			HCH	TN	VL	-6.91	-0.00394	PASS	
					VN	0.69	0.00039	PASS	
					VH	-5.84	-0.00333	PASS	
			3	LCH	TN	VL	-0.99	-0.00058	PASS
						VN	-7.93	-0.00463	PASS
						VH	-7.3	-0.00427	PASS
MCH	TN	VL		0.01	0.00001	PASS			
VN	-4.59	-0.00265	PASS						



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
			HCH	TN	VH	-4.12	-0.00238	PASS			
					VL	-5.06	-0.00289	PASS			
					VN	-6.52	-0.00372	PASS			
					VH	-3.09	-0.00176	PASS			
		5	LCH	TN	VL	-3.22	-0.00188	PASS			
					VN	-6.58	-0.00384	PASS			
					VH	-7.21	-0.00421	PASS			
					VL	-1.63	-0.00094	PASS			
					VN	7.42	0.00428	PASS			
					VH	5.34	0.00308	PASS			
			HCH	TN	VL	-2.13	-0.00122	PASS			
					VN	-4.12	-0.00235	PASS			
					VH	0.79	0.00045	PASS			
					10	LCH	TN	VL	-4.66	-0.00272	PASS
								VN	-1.43	-0.00083	PASS
								VH	0.11	0.00006	PASS
		MCH	TN	VL		3.26	0.00188	PASS			
				VN		-1.93	-0.00111	PASS			
				VH		-4.42	-0.00255	PASS			
		HCH	TN	VL	-4.16	-0.00238	PASS				
				VN	0.73	0.00042	PASS				
				VH	-1.33	-0.00076	PASS				
				15	LCH	TN	VL	-5.19	-0.00302	PASS	
							VN	-4.91	-0.00286	PASS	
							VH	-7.52	-0.00438	PASS	
		MCH	TN		VL	-1.75	-0.00101	PASS			
					VN	0.26	0.00015	PASS			
					VH	-2.56	-0.00148	PASS			
		HCH	TN		VL	1.2	0.00069	PASS			
					VN	-0.76	-0.00043	PASS			
					VH	0.21	0.00012	PASS			
		20	LCH	TN	VL	-4.71	-0.00274	PASS			
					VN	-5.91	-0.00344	PASS			
					VH	-1.75	-0.00102	PASS			
			MCH	TN	VL	1.93	0.00111	PASS			
					VN	1.02	0.00059	PASS			
					VH	0.21	0.00012	PASS			
			HCH	TN	VL	0.31	0.00018	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	1.82	0.00104	PASS
					VH	0.23	0.00013	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
BAND4	LTE/TM1	1.4	LCH	VN	-30	-6.25	-0.00365	PASS
					-20	9.33	0.00545	PASS
					-10	-17.47	-0.01021	PASS
					0	-3.62	-0.00212	PASS
					10	-2.07	-0.00121	PASS
			20	-27.14	-0.01586	PASS		
			30	6.54	0.00382	PASS		
			40	-26.06	-0.01523	PASS		
			50	-11.66	-0.00682	PASS		
			MCH	VN	-30	2.69	0.00155	PASS
					-20	2.76	0.00159	PASS
					-10	2.05	0.00118	PASS
					0	3.38	0.00195	PASS
					10	2	0.00115	PASS
			20	2.35	0.00136	PASS		
		30	4.78	0.00276	PASS			
		40	3.12	0.0018	PASS			
		50	2.37	0.00137	PASS			
		HCH	VN	-30	-5.97	-0.0034	PASS	
				-20	-3.28	-0.00187	PASS	
				-10	-8.74	-0.00498	PASS	
				0	-0.62	-0.00035	PASS	
				10	-5.04	-0.00287	PASS	
		20	-0.5	-0.00029	PASS			
		30	0.89	0.00051	PASS			
		40	-0.47	-0.00027	PASS			
		50	-3.66	-0.00209	PASS			
		3	LCH	VN	-30	-7.02	-0.0041	PASS
					-20	3.96	0.00231	PASS
					-10	2.09	0.00122	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		5			0	-2.9	-0.00169	PASS
					10	-1.76	-0.00103	PASS
					20	-2.52	-0.00147	PASS
					30	-0.7	-0.00041	PASS
					40	2.02	0.00118	PASS
					50	-3.82	-0.00223	PASS
			MCH	VN	-30	-4.35	-0.00251	PASS
					-20	-2.03	-0.00117	PASS
					-10	-1	-0.00058	PASS
					0	-0.84	-0.00048	PASS
					10	0.93	0.00054	PASS
					20	4.06	0.00234	PASS
			HCH	VN	30	5.99	0.00346	PASS
					40	4.29	0.00248	PASS
					50	4.41	0.00255	PASS
					-30	-2.32	-0.00132	PASS
					-20	-3.81	-0.00217	PASS
					-10	-3.53	-0.00201	PASS
			LCH	VN	0	-3.65	-0.00208	PASS
					10	-2.29	-0.00131	PASS
					20	-3.2	-0.00182	PASS
					30	-2.53	-0.00144	PASS
					40	-3.15	-0.0018	PASS
					50	-0.49	-0.00028	PASS
			MCH	VN	-30	-8.7	-0.00508	PASS
					-20	-1.46	-0.00085	PASS
					-10	-6.97	-0.00407	PASS
					0	-4.86	-0.00284	PASS
					10	-5.04	-0.00294	PASS
					20	-4.53	-0.00265	PASS
		30	-0.49	-0.00029	PASS			
		40	-4.92	-0.00287	PASS			
		50	-3.99	-0.00233	PASS			
		-30	-8.18	-0.00472	PASS			
		-20	-2.12	-0.00122	PASS			
					-10	4.49	0.00259	PASS
					0	5.04	0.00291	PASS
					10	-4.12	-0.00238	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict					
					20	-4.71	-0.00272	PASS					
					30	-1.95	-0.00113	PASS					
					40	-1.62	-0.00094	PASS					
					50	-6.29	-0.00363	PASS					
			HCH	VN				-30	-4.49	-0.00256	PASS		
								-20	-2.57	-0.00147	PASS		
								-10	-1.52	-0.00087	PASS		
								0	-2.59	-0.00148	PASS		
								10	0.06	0.00003	PASS		
								20	-0.16	-0.00009	PASS		
								30	1.57	0.0009	PASS		
								40	1.23	0.0007	PASS		
								50	-1.63	-0.00093	PASS		
										10	LCH	VN	
		-20	-6.04	-0.00352	PASS								
		-10	-0.29	-0.00017	PASS								
		0	-2.17	-0.00127	PASS								
		10	-2.13	-0.00124	PASS								
		20	-1.44	-0.00084	PASS								
		30	-0.83	-0.00048	PASS								
		40	-2.57	-0.0015	PASS								
		50	-3.86	-0.00225	PASS								
		MCH	VN				-30				2.06	0.00119	PASS
							-20				-0.67	-0.00039	PASS
							-10				-1.2	-0.00069	PASS
							0				0.96	0.00055	PASS
							10				1.97	0.00114	PASS
							20	0.46	0.00027	PASS			
		30	2.9	0.00167	PASS								
		40	3.92	0.00226	PASS								
		50	-1.63	-0.00093	PASS								
		HCH	VN				-30	-2.25	-0.00129	PASS			
-20	-2.78						-0.00159	PASS					
-10	-0.54						-0.00031	PASS					
0	1.43						0.00082	PASS					
10	-0.01						-0.00001	PASS					
20	0.07						0.00004	PASS					
30	-1.34						-0.00077	PASS					



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-2.73	-0.00156	PASS
					50	-0.07	-0.00004	PASS
		15	LCH	VN	-30	-2.26	-0.00132	PASS
					-20	-2.73	-0.00159	PASS
					-10	-1.83	-0.00107	PASS
					0	-1.92	-0.00112	PASS
					10	-4.82	-0.00281	PASS
					20	-0.49	-0.00029	PASS
					30	-1.12	-0.00065	PASS
					40	-3.81	-0.00222	PASS
					50	-0.21	-0.00012	PASS
			MCH	VN	-30	-0.19	-0.00011	PASS
					-20	2.47	0.00143	PASS
					-10	0.82	0.00047	PASS
					0	5.06	0.00292	PASS
					10	3.33	0.00192	PASS
					20	2.22	0.00128	PASS
					30	-1.9	-0.0011	PASS
					40	-0.06	-0.00003	PASS
					50	0.99	0.00057	PASS
		HCH	VN	-30	1.82	0.00104	PASS	
				-20	0.2	0.00011	PASS	
				-10	2.4	0.00137	PASS	
				0	2.53	0.00145	PASS	
				10	1.89	0.00108	PASS	
				20	-1	-0.00057	PASS	
				30	-1.1	-0.00063	PASS	
				40	0.47	0.00027	PASS	
				50	1.5	0.00086	PASS	
		20	LCH	VN	-30	-1.14	-0.00066	PASS
					-20	0.1	0.00006	PASS
					-10	-0.34	-0.0002	PASS
					0	0.21	0.00012	PASS
					10	-1.6	-0.00093	PASS
					20	0.4	0.00023	PASS
					30	-2.93	-0.0017	PASS
40	-0.64				-0.00037	PASS		
50	-1.57				-0.00091	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	VN	-30	-1.57	-0.00091	PASS
					-20	-0.97	-0.00056	PASS
					-10	-0.21	-0.00012	PASS
					0	-0.74	-0.00043	PASS
					10	0.1	0.00006	PASS
					20	-0.07	-0.00004	PASS
					30	1.43	0.00083	PASS
					40	2.23	0.00129	PASS
					50	1.73	0.001	PASS
			HCH	VN	-30	1.53	0.00088	PASS
					-20	2.15	0.00123	PASS
					-10	0.16	0.00009	PASS
					0	-0.74	-0.00042	PASS
					10	1.76	0.00101	PASS
					20	-0.06	-0.00003	PASS
					30	-0.17	-0.0001	PASS
					40	2.26	0.0013	PASS
					50	0.31	0.00018	PASS
	LTE/TM2	1.4	LCH	VN	-30	-4.25	-0.00248	PASS
					-20	66.22	0.03871	PASS
					-10	-21.63	-0.01264	PASS
					0	-1.1	-0.00064	PASS
					10	-14.63	-0.00855	PASS
					20	70.98	0.04149	PASS
					30	3.09	0.00181	PASS
					40	-12.16	-0.00711	PASS
					50	-33.62	-0.01965	PASS
			MCH	VN	-30	-0.13	-0.00008	PASS
					-20	1.99	0.00115	PASS
					-10	1.2	0.00069	PASS
					0	0.31	0.00018	PASS
					10	0.79	0.00046	PASS
					20	-0.2	-0.00012	PASS
					30	1.32	0.00076	PASS
					40	0.99	0.00057	PASS
					50	1.44	0.00083	PASS
HCH	VN	-30	-1.89	-0.00108	PASS			
		-20	-10.56	-0.00602	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-10	-7.97	-0.00454	PASS		
					0	3.45	0.00197	PASS		
					10	1.17	0.00067	PASS		
					20	-2.85	-0.00162	PASS		
					30	-7.95	-0.00453	PASS		
					40	1.69	0.00096	PASS		
					50	-3.28	-0.00187	PASS		
		3	LCH	VN	-30	-5.21	-0.00304	PASS		
					-20	-4.31	-0.00252	PASS		
					-10	4.51	0.00264	PASS		
					0	-2.65	-0.00155	PASS		
					10	-3.42	-0.002	PASS		
					20	-0.23	-0.00013	PASS		
					30	-2.33	-0.00136	PASS		
					40	-3.26	-0.0019	PASS		
					50	-2.75	-0.00161	PASS		
					MCH	VN	-30	1.34	0.00077	PASS
							-20	-2.5	-0.00144	PASS
							-10	-1.75	-0.00101	PASS
							0	2.07	0.00119	PASS
							10	-6.58	-0.0038	PASS
							20	2.55	0.00147	PASS
							30	-3.62	-0.00209	PASS
					HCH	VN	40	5.95	0.00343	PASS
							50	1.26	0.00073	PASS
		-30	-3.68	-0.0021			PASS			
		-20	1.67	0.00095			PASS			
		-10	-1.8	-0.00103			PASS			
		0	-3.12	-0.00178			PASS			
		10	0.36	0.00021			PASS			
		5	LCH	VN	20	2.47	0.00141	PASS		
					30	-3.69	-0.0021	PASS		
					40	1.17	0.00067	PASS		
					50	-0.24	-0.00014	PASS		
					-30	-6.19	-0.00361	PASS		
					-20	-7.68	-0.00448	PASS		
-10	-5.36				-0.00313	PASS				
0	-4.94	-0.00288	PASS							



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					10	-7.42	-0.00433	PASS			
					20	-7.48	-0.00437	PASS			
					30	-3.45	-0.00201	PASS			
					40	-4.31	-0.00252	PASS			
					50	-6.25	-0.00365	PASS			
			MCH	VN	-30	-14.95	-0.00863	PASS			
					-20	-7.65	-0.00442	PASS			
					-10	-13.56	-0.00783	PASS			
					0	-10.36	-0.00598	PASS			
					10	-16.25	-0.00938	PASS			
					20	-11.17	-0.00645	PASS			
					30	-3.73	-0.00215	PASS			
					40	-22.03	-0.01272	PASS			
					50	-7.78	-0.00449	PASS			
					HCH	VN	-30	-0.56	-0.00032	PASS	
			-20	0.69			0.00039	PASS			
			-10	2.25			0.00128	PASS			
			0	-0.21			-0.00012	PASS			
			10	-0.83			-0.00047	PASS			
			20	0.66			0.00038	PASS			
			30	-1.4			-0.0008	PASS			
			40	-0.33			-0.00019	PASS			
			10			LCH	VN	50	-2.73	-0.00156	PASS
								-30	-3.33	-0.00194	PASS
								-20	-7.27	-0.00424	PASS
								-10	-2.49	-0.00145	PASS
								0	-0.04	-0.00002	PASS
								10	-1.9	-0.00111	PASS
								20	-4.62	-0.00269	PASS
								30	-4.53	-0.00264	PASS
40	-2.05	-0.0012				PASS					
50	0	0				PASS					
MCH	VN	-30				-2.02	-0.00117	PASS			
		-20				-0.01	-0.00001	PASS			
		-10				0.26	0.00015	PASS			
		0				6.25	0.00361	PASS			
		10				-2.9	-0.00167	PASS			
		20	10.83	0.00625	PASS						



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					30	-1.34	-0.00077	PASS		
					40	8.68	0.00501	PASS		
					50	-4.91	-0.00283	PASS		
			HCH	VN	-30	2.27	0.0013	PASS		
					-20	1.2	0.00069	PASS		
					-10	-1.34	-0.00077	PASS		
					0	1.43	0.00082	PASS		
					10	1.7	0.00097	PASS		
					20	-2.22	-0.00127	PASS		
					30	-0.3	-0.00017	PASS		
					40	0.63	0.00036	PASS		
					50	-1.93	-0.0011	PASS		
					LCH	VN	-30	-2.4	-0.0014	PASS
							-20	-1.04	-0.00061	PASS
							-10	2.07	0.00121	PASS
		0	0.13	0.00008			PASS			
		10	-2.15	-0.00125			PASS			
		20	-2.65	-0.00154			PASS			
		30	-0.31	-0.00018			PASS			
		40	-0.77	-0.00045			PASS			
		50	-1.52	-0.00089			PASS			
		MCH	VN	-30	1.54	0.00089	PASS			
				-20	-1.85	-0.00107	PASS			
				-10	0.36	0.00021	PASS			
				0	2.63	0.00152	PASS			
				10	3.19	0.00184	PASS			
				20	4.46	0.00257	PASS			
				30	-4.94	-0.00285	PASS			
				40	-3.56	-0.00205	PASS			
		HCH	VN	50	-1.75	-0.00101	PASS			
				-30	-0.76	-0.00043	PASS			
				-20	-1.47	-0.00084	PASS			
				-10	-2.7	-0.00155	PASS			
				0	-0.3	-0.00017	PASS			
				10	-0.63	-0.00036	PASS			
				20	0.46	0.00026	PASS			
				30	0.11	0.00006	PASS			
		40	0.07	0.00004	PASS					



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					50	1.72	0.00098	PASS
		20	LCH	VN	-30	-3.35	-0.00195	PASS
					-20	-4.46	-0.00259	PASS
					-10	-2.66	-0.00155	PASS
					0	-1.97	-0.00115	PASS
					10	-4.06	-0.00236	PASS
					20	-2.7	-0.00157	PASS
					30	-3.36	-0.00195	PASS
					40	-1.82	-0.00106	PASS
					50	-0.74	-0.00043	PASS
			MCH	VN	-30	0.69	0.0004	PASS
					-20	1.47	0.00085	PASS
					-10	0.49	0.00028	PASS
					0	0.62	0.00036	PASS
					10	0.77	0.00044	PASS
					20	2.13	0.00123	PASS
					30	-0.43	-0.00025	PASS
					40	2.13	0.00123	PASS
					50	0.29	0.00017	PASS
			HCH	VN	-30	1.1	0.00063	PASS
					-20	1.86	0.00107	PASS
					-10	2.3	0.00132	PASS
					0	-1.39	-0.0008	PASS
					10	1.75	0.001	PASS
					20	0.01	0.00001	PASS
		30			-0.94	-0.00054	PASS	
		40			1.4	0.0008	PASS	
		50			1.3	0.00074	PASS	

END