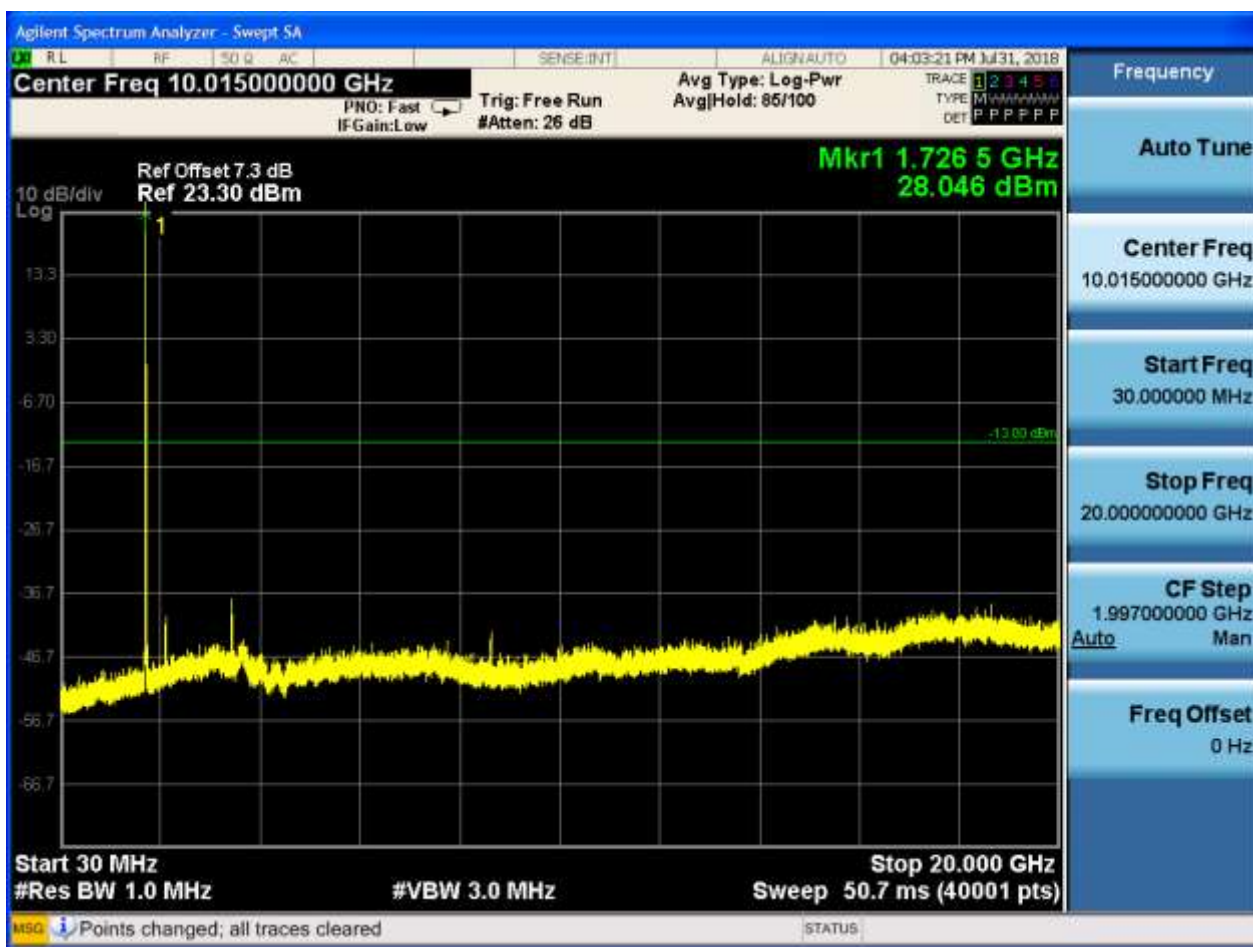








6.1.1.2.5.3 Test Channel = HCH

6.1.1.2.5.3.1 Test RB = RB1#0





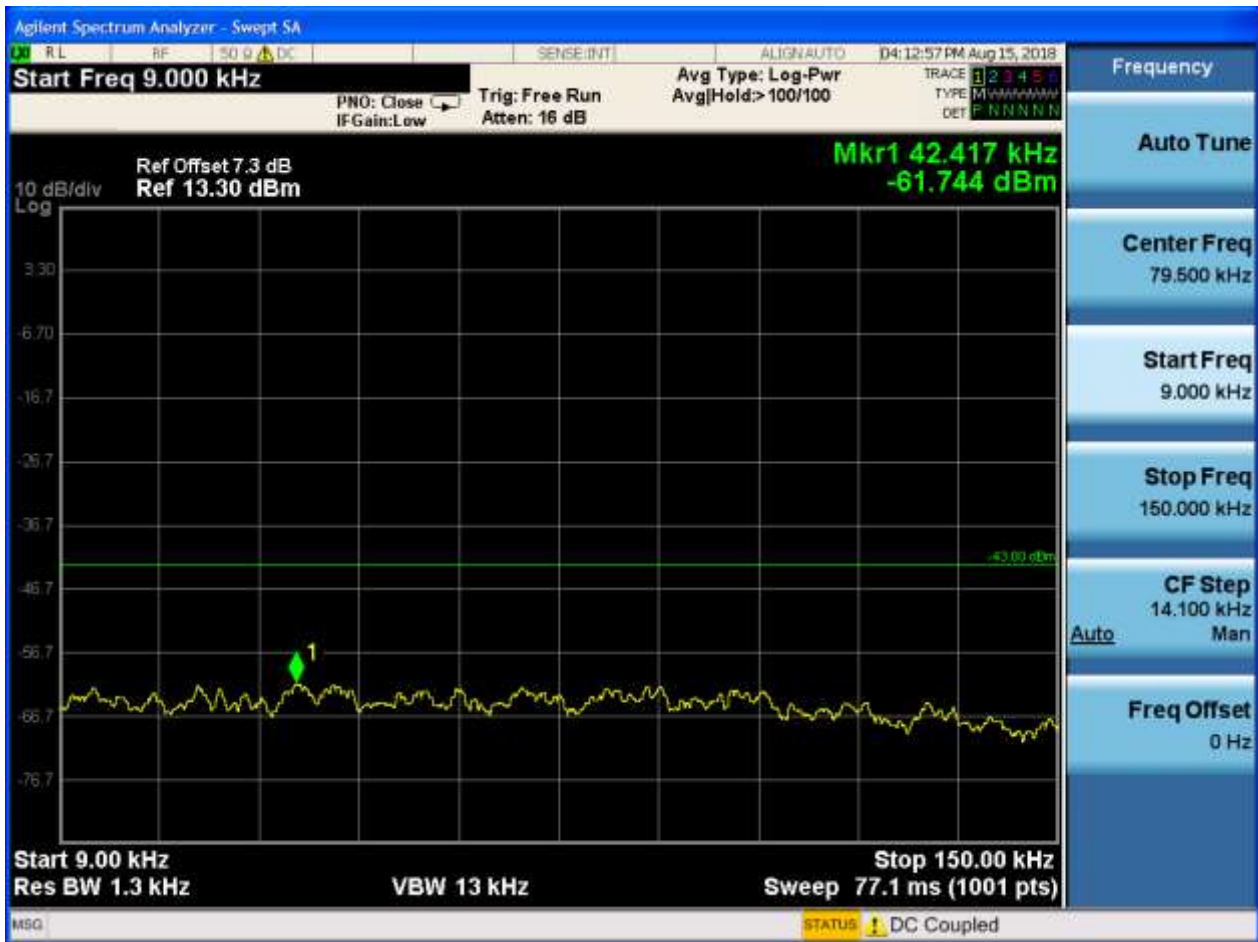




6.1.1.2.6 Test Bandwidth = 20

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
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
			MCH	TN	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
					30	5.99	0.00346	PASS
					40	4.29	0.00248	PASS
					50	4.41	0.00255	PASS
			HCH	VN	-30	-2.32	-0.00132	PASS
					-20	-3.81	-0.00217	PASS
					-10	-3.53	-0.00201	PASS
					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
			LCH	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
			MCH	VN	-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	-30	-3.59	-0.00209	PASS
					-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
					40	5.95	0.00343	PASS
					50	1.26	0.00073	PASS
			HCH	VN	-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
					20	2.47	0.00141	PASS
					30	-3.69	-0.0021	PASS
					40	1.17	0.00067	PASS
					50	-0.24	-0.00014	PASS
		5	LCH	VN	-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
					50	-2.73	-0.00156	PASS
		10	LCH	VN	-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
					50	-1.75	-0.00101	PASS
			HCH	VN	-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
		20	LCH	VN	50	1.72	0.00098	PASS
					-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