



6.2.1.2.1.2 Test Channel = MCH

6.2.1.2.1.2.1 Test RB = RB1#0





6.2.1.2.1.3 Test Channel = HCH

6.2.1.2.1.3.1 Test RB = RB1#0





6.2.1.2.2 Test Bandwidth = 10

6.2.1.2.2.1 Test Channel = LCH

6.2.1.2.2.1.1 Test RB = RB1#0





6.2.1.2.2.2 Test Channel = MCH

6.2.1.2.2.2.1 Test RB = RB1#0





6.2.1.2.2.3 Test Channel = HCH

6.2.1.2.2.3.1 Test RB = RB1#0





6.2.1.2.3 Test Bandwidth = 15

6.2.1.2.3.1 Test Channel = LCH

6.2.1.2.3.1.1 Test RB = RB1#0





6.2.1.2.3.2 Test Channel = MCH

6.2.1.2.3.2.1 Test RB = RB1#0





6.2.1.2.3.3 Test Channel = HCH

6.2.1.2.3.3.1 Test RB = RB1#0





6.2.1.2.4 Test Bandwidth = 20

6.2.1.2.4.1 Test Channel = LCH

6.2.1.2.4.1.1 Test RB = RB1#0





6.2.1.2.4.2 Test Channel = MCH

6.2.1.2.4.2.1 Test RB = RB1#0





6.2.1.2.4.3 Test Channel = HCH

6.2.1.2.4.3.1 Test RB = RB1#0





7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

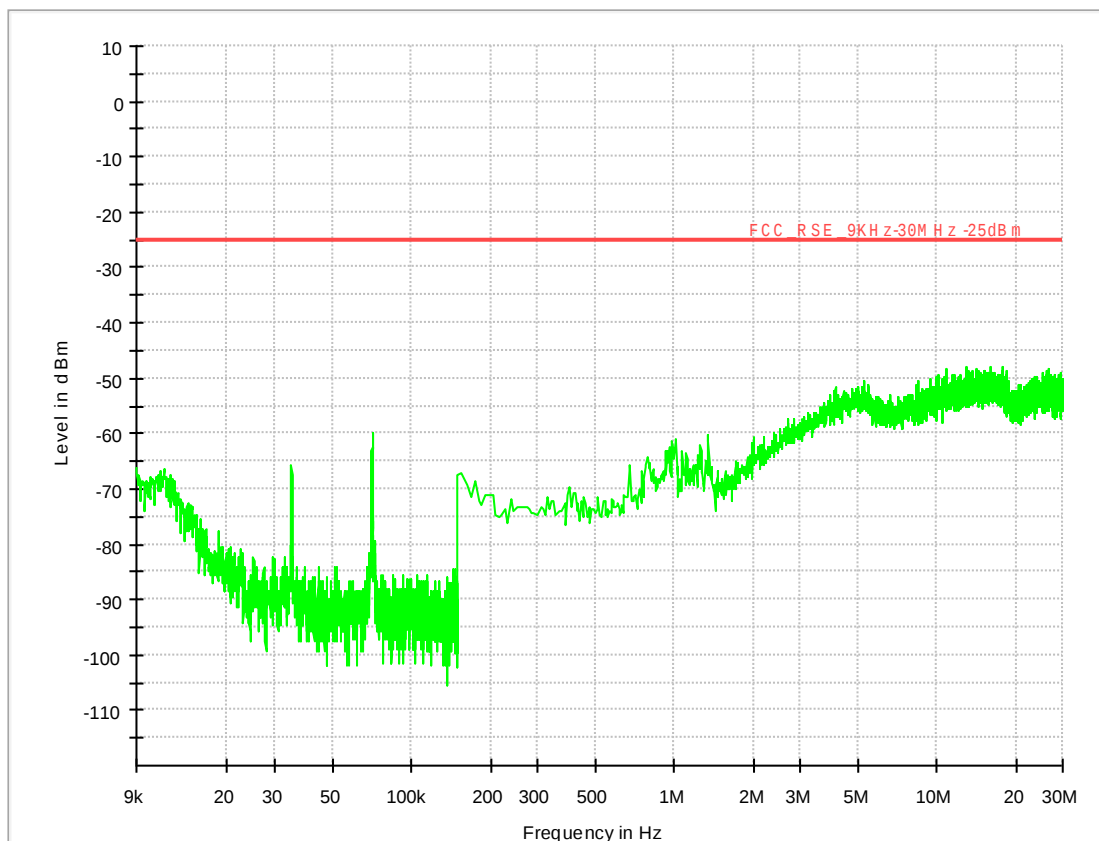
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

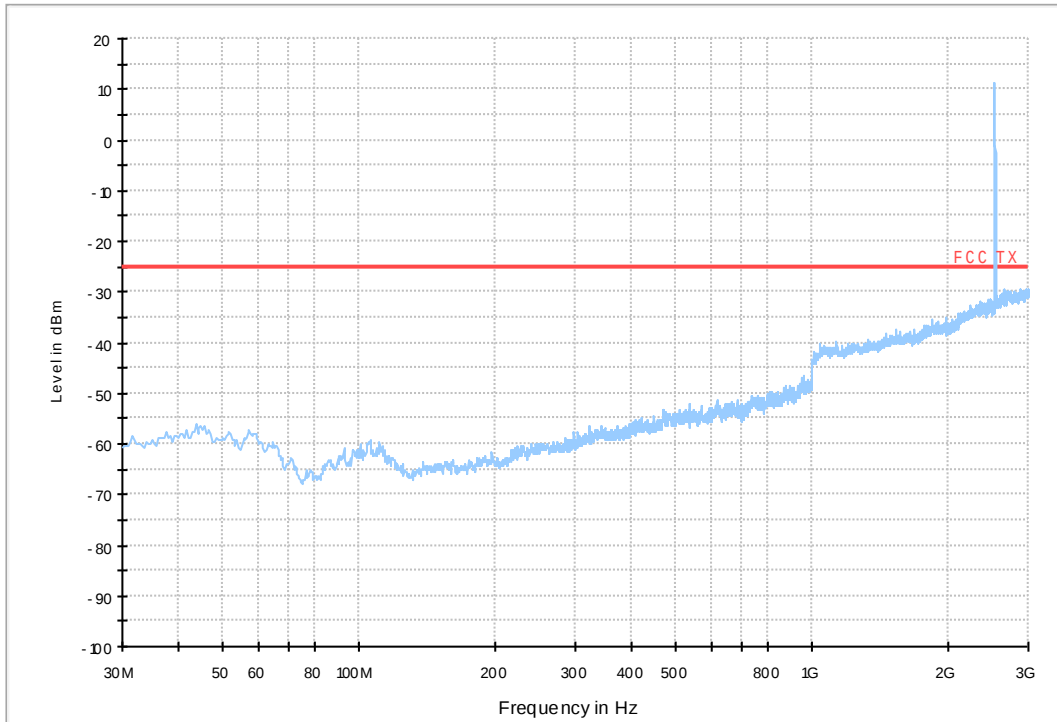
7.1 For LTE

7.1.1 Test Band = BAND7_ANT1

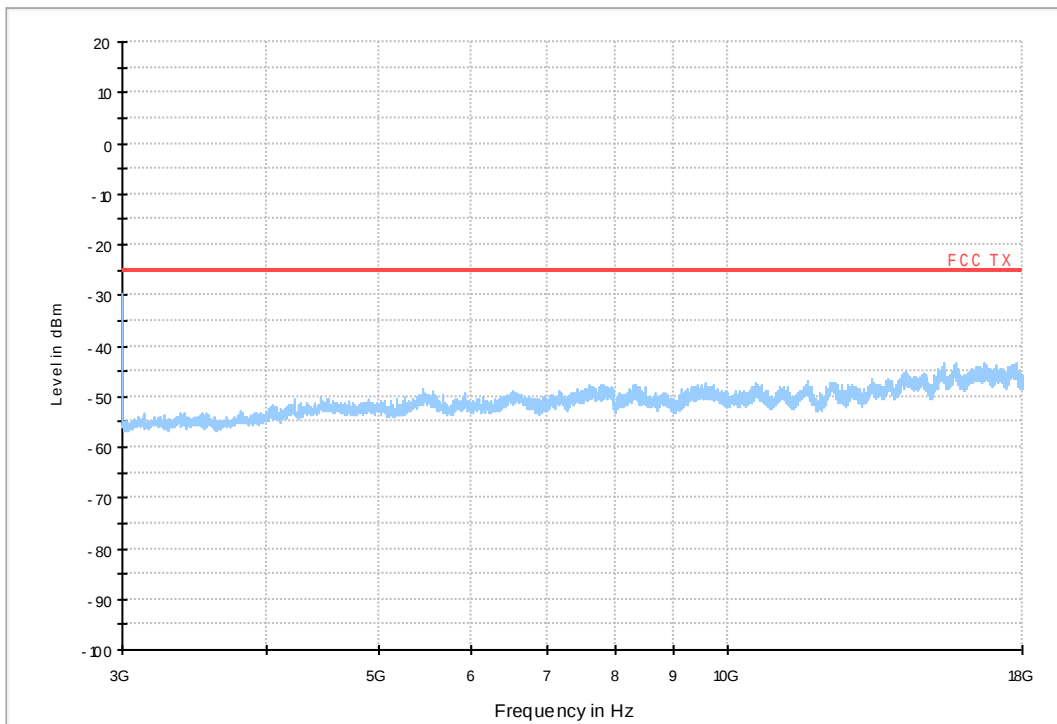
7.1.1.1 Test Bandwidth = 5



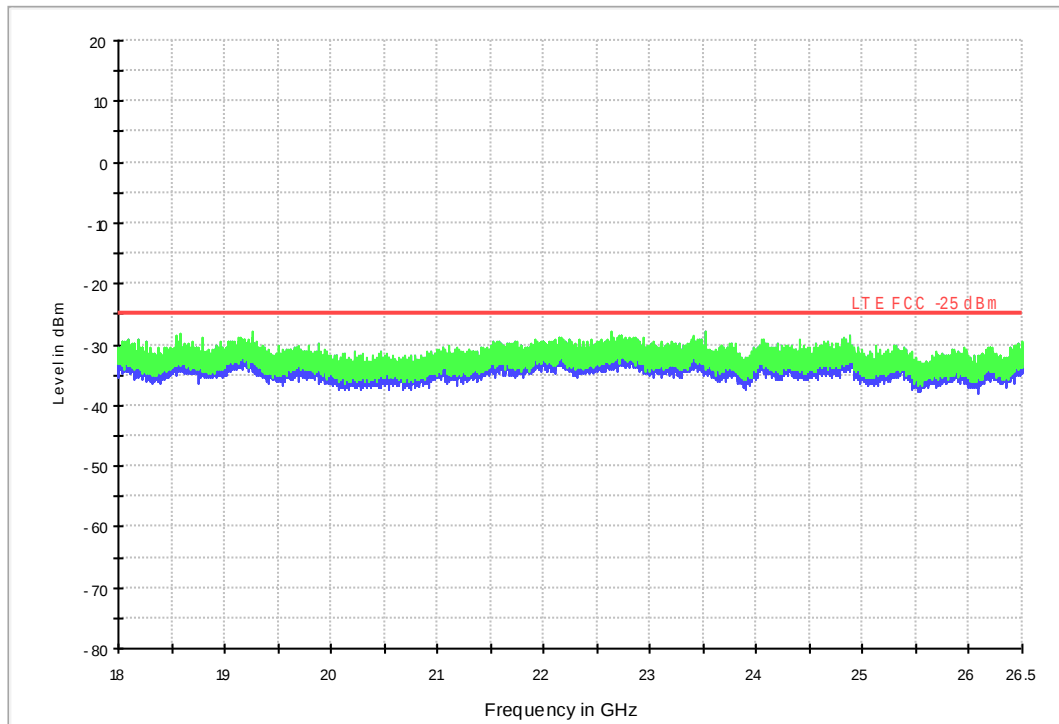
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



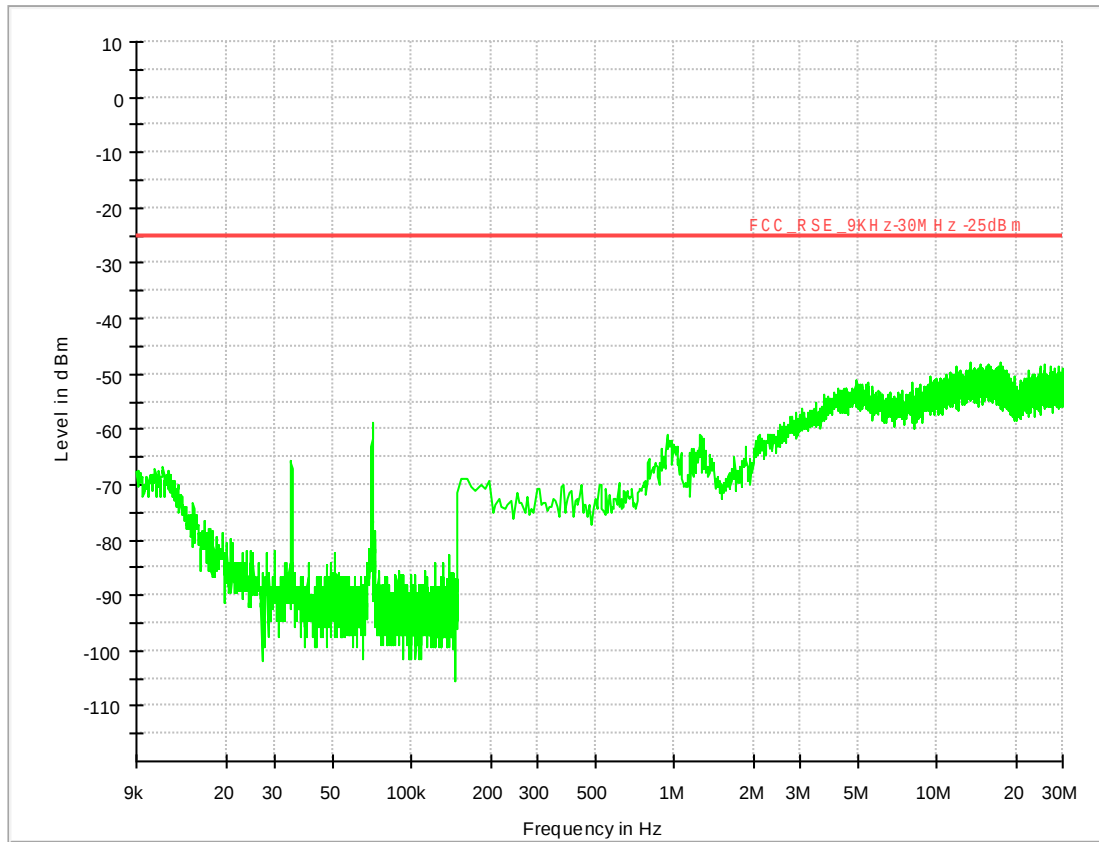
LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



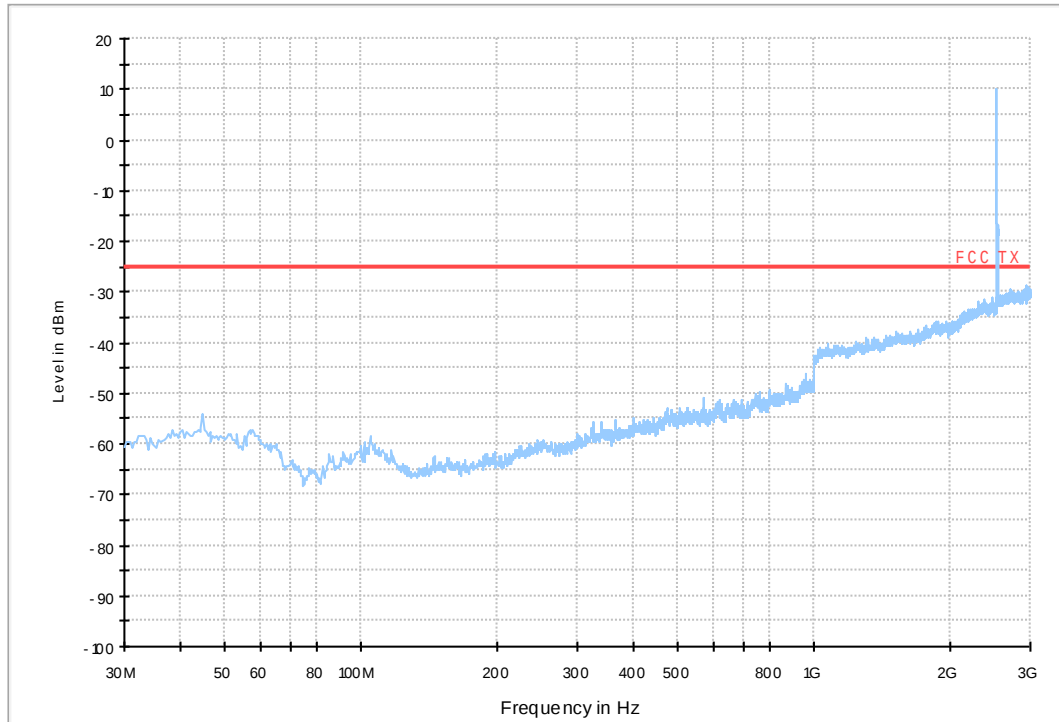
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



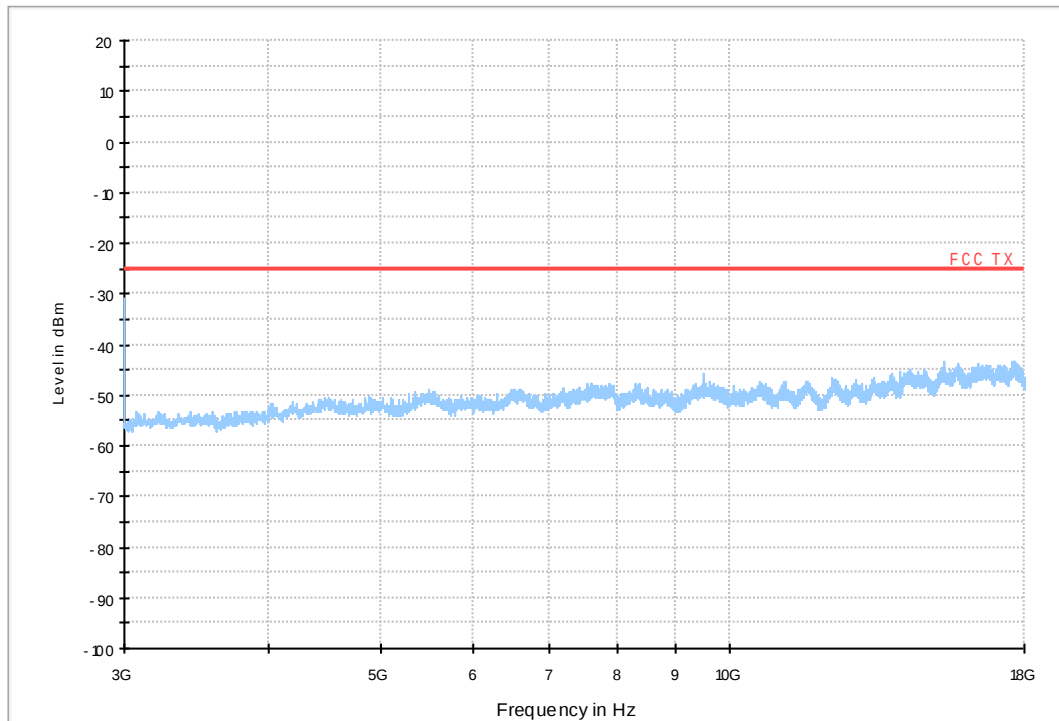
7.1.1.2 Test Bandwidth = 20



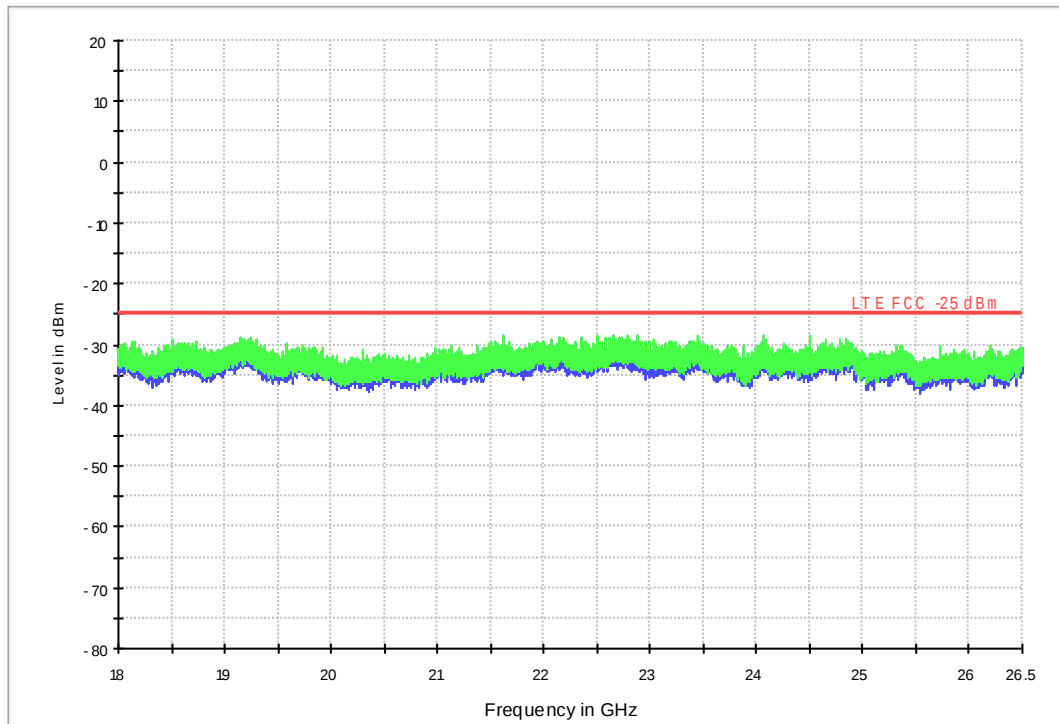
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit

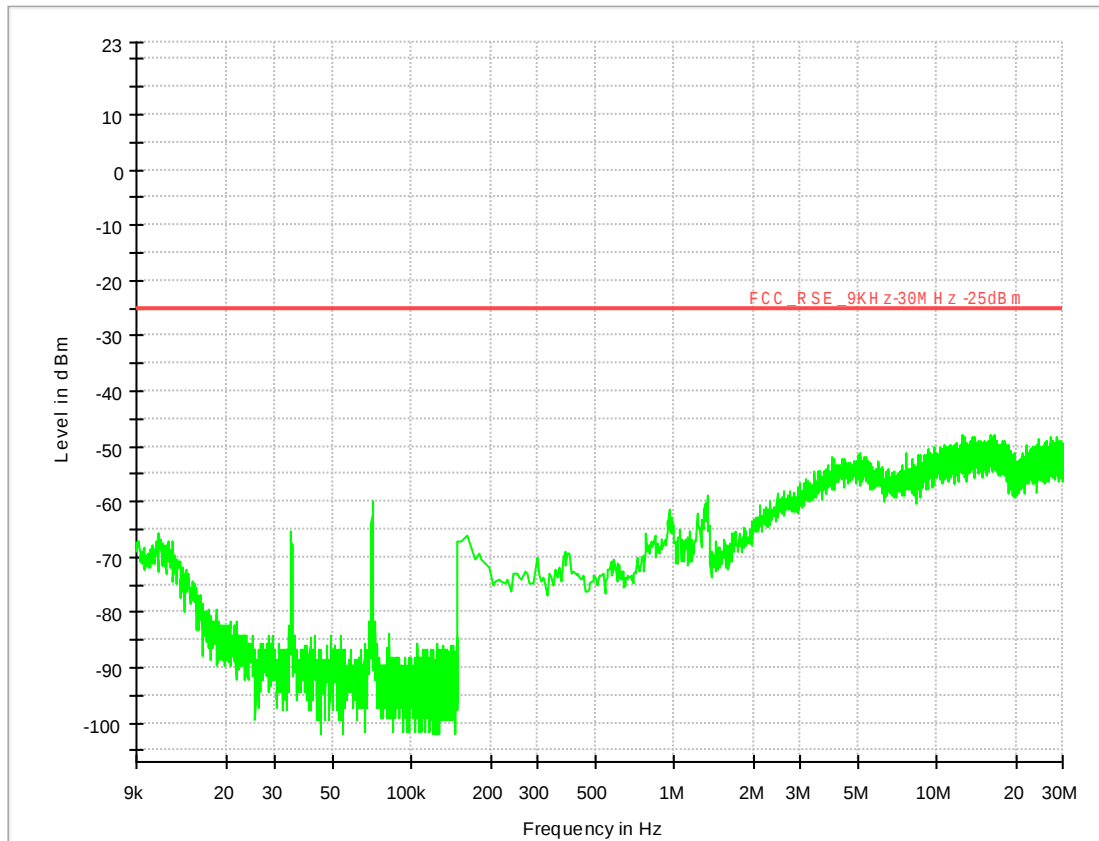


18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK

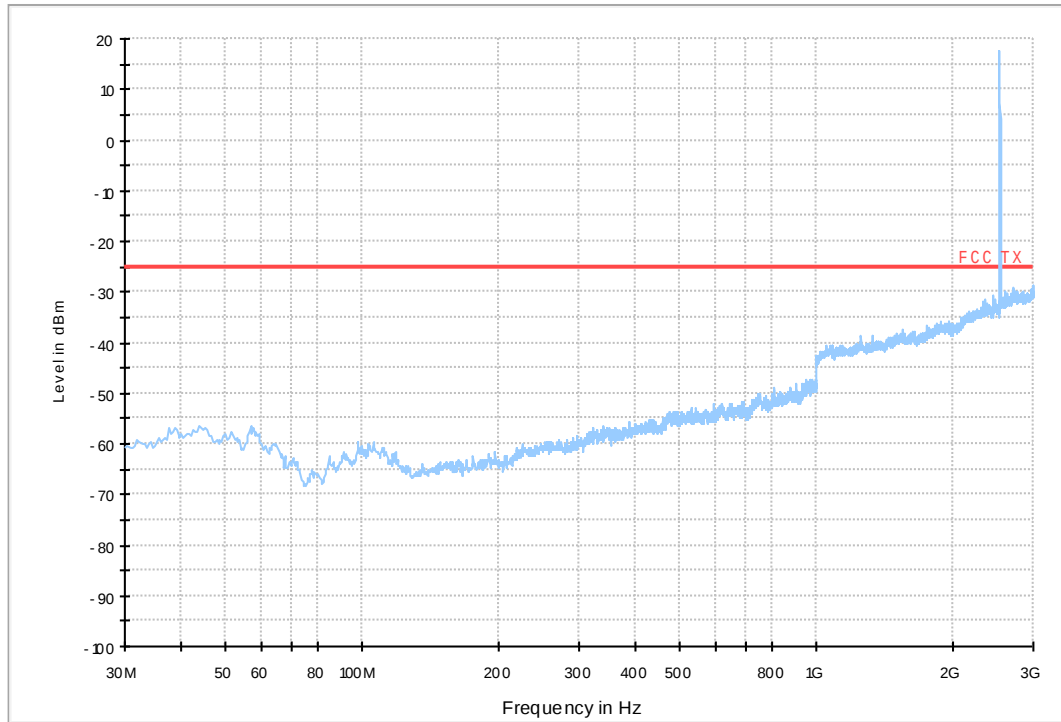


7.1.2 Test Band = BAND7_ANT2

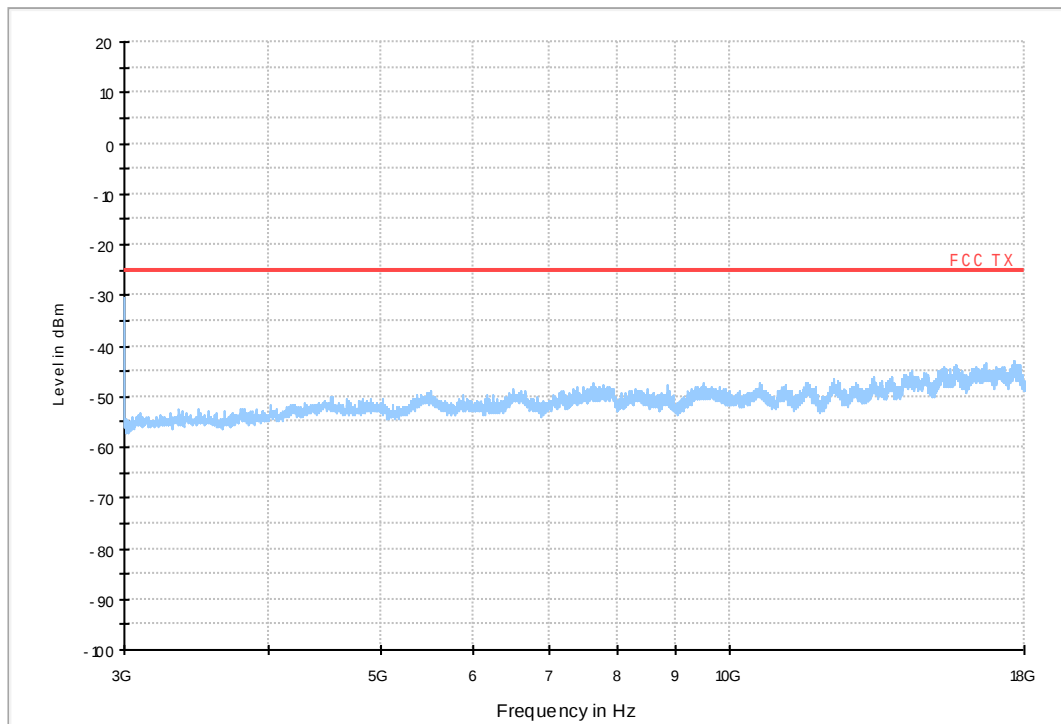
7.1.2.1 Test Bandwidth = 5



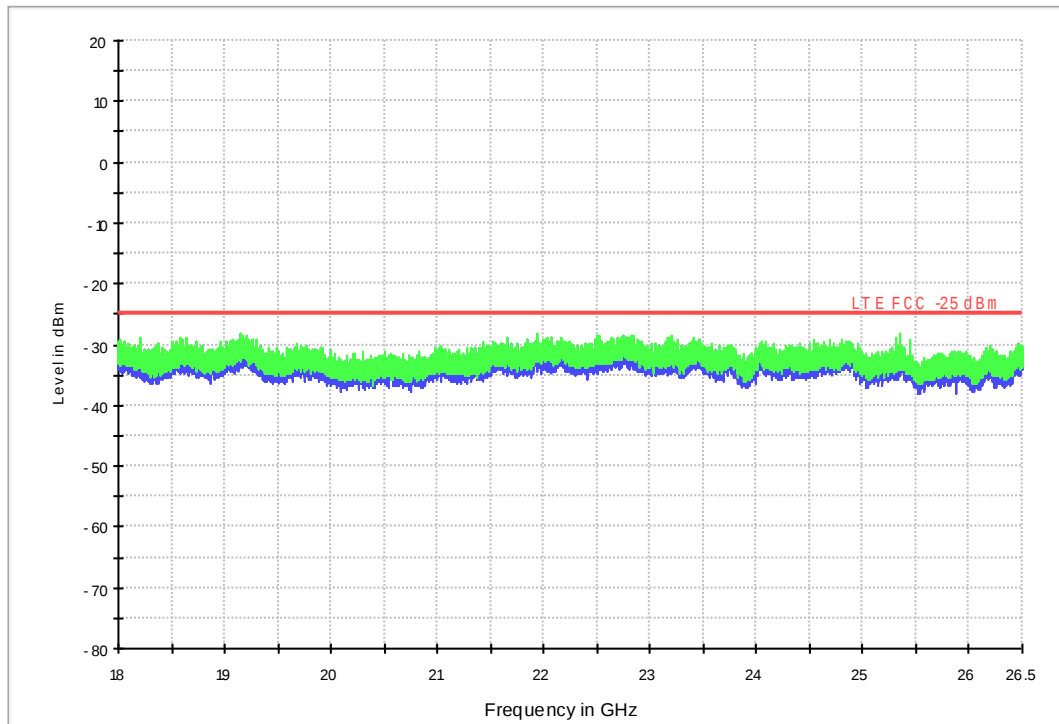
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



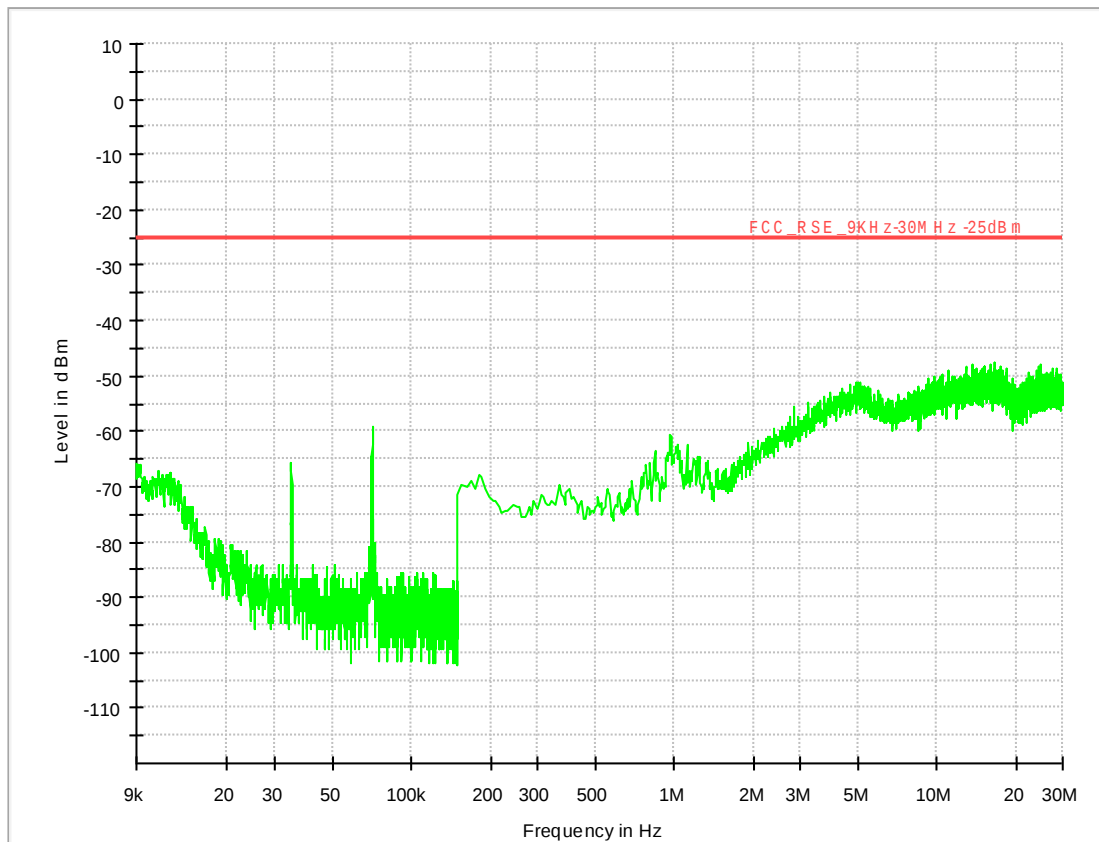
LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



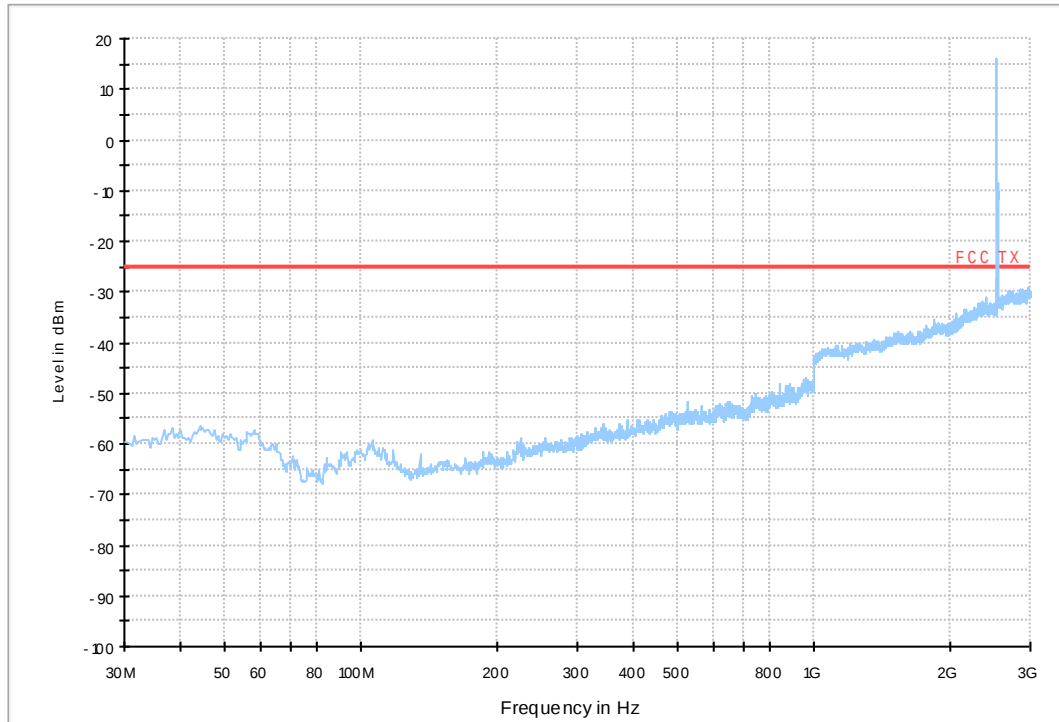
18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



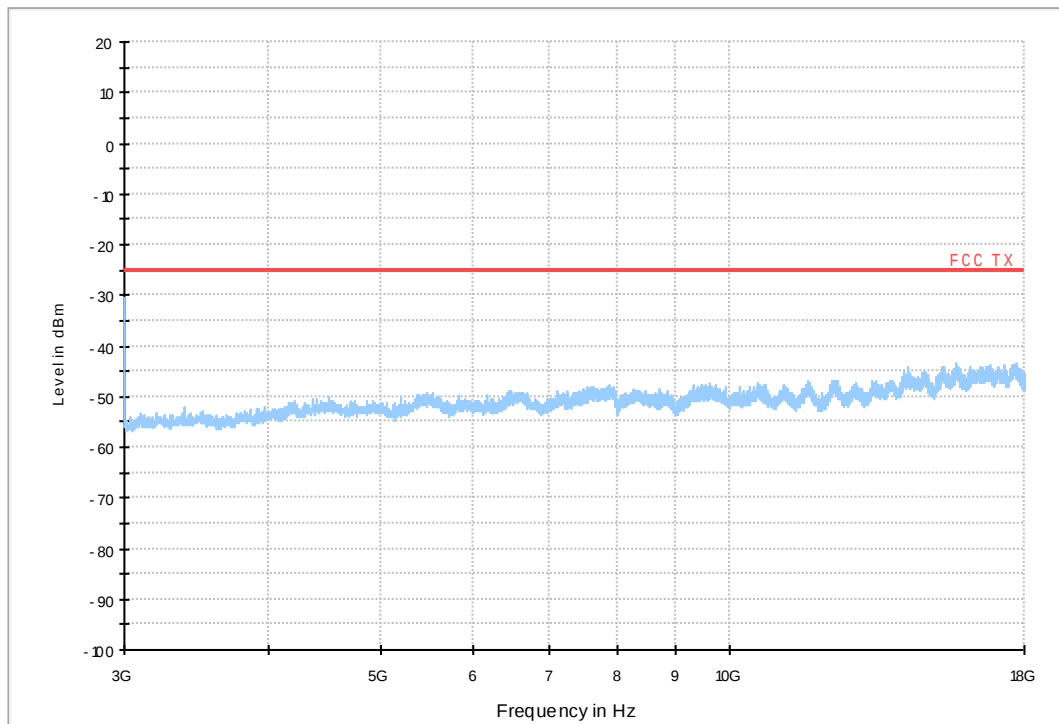
7.1.2.2 Test Bandwidth = 20



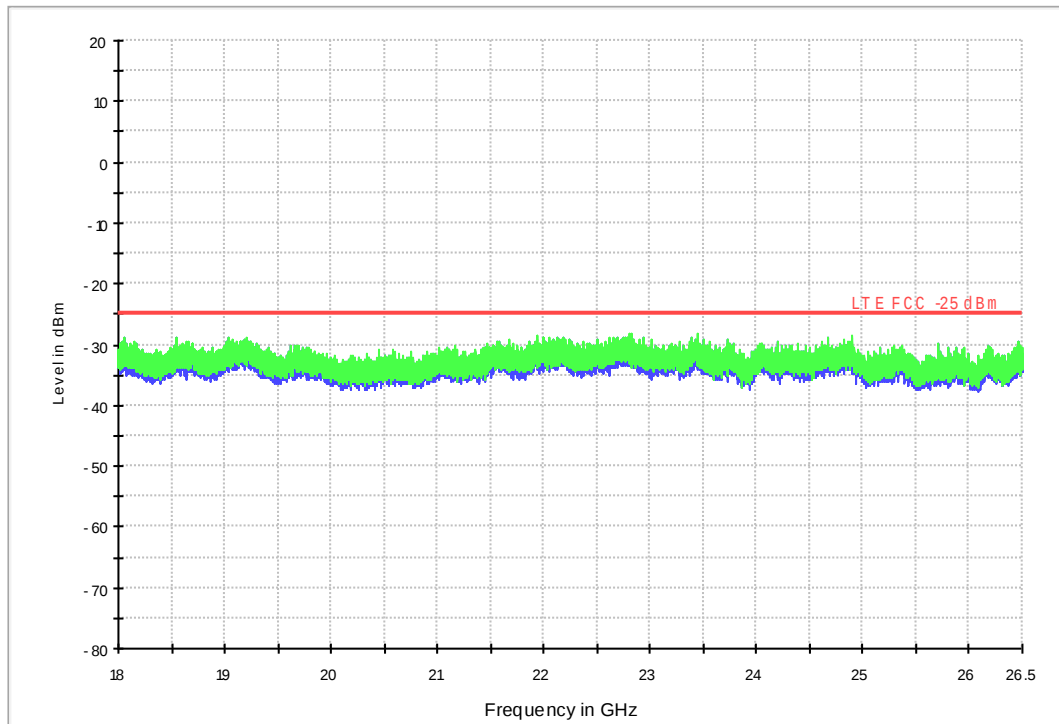
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE FDD Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND7	LTE/TM1	5	LCH	TN	VL	1.17302	0.00047	PASS
					VN	-0.02861	-0.00001	PASS
					VH	-11.45840	-0.00458	PASS
			MCH	TN	VL	-34.99031	-0.01380	PASS
					VN	-6.62327	-0.00261	PASS
					VH	-0.55790	-0.00022	PASS
			HCH	TN	VL	-1.17302	-0.00046	PASS
					VN	-1.54495	-0.00060	PASS
					VH	-3.26157	-0.00127	PASS
		10	LCH	TN	VL	0.12875	0.00005	PASS
					VN	-2.93255	-0.00117	PASS
					VH	-1.95980	-0.00078	PASS
			MCH	TN	VL	-14.74857	-0.00582	PASS
					VN	-2.03133	-0.00080	PASS
					VH	-1.14441	-0.00045	PASS
			HCH	TN	VL	-2.67506	-0.00104	PASS
					VN	-1.08719	-0.00042	PASS
					VH	-0.11444	-0.00004	PASS
		15	LCH	TN	VL	-4.49181	-0.00179	PASS
					VN	0.92983	0.00037	PASS
					VH	-2.71797	-0.00108	PASS
			MCH	TN	VL	-2.33173	-0.00092	PASS
					VN	-9.38415	-0.00370	PASS
					VH	-3.13282	-0.00124	PASS
			HCH	TN	VL	-6.15120	-0.00240	PASS
					VN	-0.87261	-0.00034	PASS
					VH	-1.47343	-0.00057	PASS
		20	LCH	TN	VL	-0.28610	-0.00011	PASS
					VN	-3.46184	-0.00138	PASS
					VH	-1.70231	-0.00068	PASS
			MCH	TN	VL	-2.44618	-0.00096	PASS
					VN	-2.66075	-0.00105	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2		HCH	TN	VH	-0.70095	-0.00028	PASS
					VL	0.27180	0.00011	PASS
					VN	-0.60081	-0.00023	PASS
					VH	0.17166	0.00007	PASS
		5	LCH	TN	VL	1.35899	0.00054	PASS
					VN	-1.93119	-0.00077	PASS
					VH	2.36034	0.00094	PASS
			MCH	TN	VL	-27.69470	-0.01092	PASS
					VN	-5.27859	-0.00208	PASS
					VH	-29.65450	-0.01170	PASS
			HCH	TN	VL	1.14441	0.00045	PASS
					VN	-2.46048	-0.00096	PASS
					VH	-2.40326	-0.00094	PASS
		10	LCH	TN	VL	-0.77248	-0.00031	PASS
					VN	-0.92983	-0.00037	PASS
					VH	-1.55926	-0.00062	PASS
			MCH	TN	VL	-2.13146	-0.00084	PASS
					VN	-1.78814	-0.00071	PASS
					VH	0.00000	0.00000	PASS
			HCH	TN	VL	-0.90122	-0.00035	PASS
					VN	-13.97610	-0.00545	PASS
					VH	-16.30783	-0.00636	PASS
		15	LCH	TN	VL	-74.88728	-0.02987	PASS
					VN	0.18597	0.00007	PASS
					VH	-0.97275	-0.00039	PASS
			MCH	TN	VL	-10.78606	-0.00425	PASS
					VN	-2.26021	-0.00089	PASS
					VH	0.41485	0.00016	PASS
			HCH	TN	VL	-3.16143	-0.00123	PASS
					VN	-2.14577	-0.00084	PASS
					VH	-9.94205	-0.00388	PASS
		20	LCH	TN	VL	-2.41756	-0.00096	PASS
					VN	-2.63214	-0.00105	PASS
					VH	-1.71661	-0.00068	PASS
			MCH	TN	VL	0.50068	0.00020	PASS
					VN	-4.47750	-0.00177	PASS
					VH	-0.90122	-0.00036	PASS
			HCH	TN	VL	0.47207	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	-1.21593	-0.00047	PASS
					VH	-2.73228	-0.00107	PASS

8.1.2 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
BAND7	LTE/TM1	5	LCH	VN	-30	-1.20163	-0.00048	PASS
					-20	-2.68936	-0.00107	PASS
					-10	2.13146	0.00085	PASS
					0	-35.06184	-0.01401	PASS
					10	3.87669	0.00155	PASS
					20	-0.02861	-0.00001	PASS
					30	-1.77383	-0.00071	PASS
					40	0.45776	0.00018	PASS
					50	-0.02861	-0.00001	PASS
			MCH	VN	-30	-0.01431	-0.00001	PASS
					-20	-16.82281	-0.00664	PASS
					-10	-0.48637	-0.00019	PASS
					0	-2.34604	-0.00093	PASS
					10	-2.94685	-0.00116	PASS
					20	-6.62327	-0.00261	PASS
					30	-0.31471	-0.00012	PASS
					40	-2.70367	-0.00107	PASS
					50	4.52042	0.00178	PASS
			HCH	VN	-30	-18.62526	-0.00725	PASS
					-20	-12.41684	-0.00484	PASS
					-10	-18.62526	-0.00725	PASS
					0	-0.22888	-0.00009	PASS
					10	-0.17166	-0.00007	PASS
					20	-1.54495	-0.00060	PASS
					30	1.00136	0.00039	PASS
					40	-24.2185	-0.00943	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
						6		
					50	-11.5013 1	-0.00448	PASS
		10	LCH	VN	-30	-0.58651	-0.00023	PASS
					-20	-1.08719	-0.00043	PASS
					-10	1.57356	0.00063	PASS
					0	1.47343	0.00059	PASS
					10	-1.55926	-0.00062	PASS
					20	-2.93255	-0.00117	PASS
					30	-1.11580	-0.00045	PASS
					40	-0.04292	-0.00002	PASS
					50	1.81675	0.00073	PASS
			MCH	VN	-30	-0.74387	-0.00029	PASS
					-20	-1.84536	-0.00073	PASS
					-10	-0.68665	-0.00027	PASS
					0	-15.9215 9	-0.00628	PASS
					10	-24.0898 1	-0.00950	PASS
					20	-2.03133	-0.00080	PASS
					30	-6.22272	-0.00245	PASS
					40	-4.01974	-0.00159	PASS
					50	-3.26157	-0.00129	PASS
			HCH	VN	-30	-1.85966	-0.00073	PASS
					-20	-3.20435	-0.00125	PASS
					-10	-7.23839	-0.00282	PASS
					0	-2.54631	-0.00099	PASS
					10	-1.08719	-0.00042	PASS
					20	-1.08719	-0.00042	PASS
					30	-9.61304	-0.00375	PASS
					40	-11.7015 8	-0.00456	PASS
					50	-0.21458	-0.00008	PASS
		15	LCH	VN	-30	-0.61512	-0.00025	PASS
					-20	-0.91553	-0.00037	PASS
					-10	-16.7083 7	-0.00666	PASS
					0	-1.60217	-0.00064	PASS
					10	-1.71661	-0.00068	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	0.92983	0.00037	PASS
					30	-0.81539	-0.00033	PASS
					40	-0.98705	-0.00039	PASS
					50	-0.28610	-0.00011	PASS
			MCH	VN	-30	-3.57628	-0.00141	PASS
					-20	-3.37601	-0.00133	PASS
					-10	0.00000	0.00000	PASS
					0	-2.38895	-0.00094	PASS
					10	-8.08239	-0.00319	PASS
					20	-9.38415	-0.00370	PASS
					30	-9.75609	-0.00385	PASS
					40	-9.29833	-0.00367	PASS
					50	-5.96523	-0.00235	PASS
			HCH	VN	-30	-3.91960	-0.00153	PASS
					-20	-2.74658	-0.00107	PASS
					-10	1.38760	0.00054	PASS
					0	-2.14577	-0.00084	PASS
					10	0.11444	0.00004	PASS
					20	-0.87261	-0.00034	PASS
					30	-1.02997	-0.00040	PASS
					40	-2.54631	-0.00099	PASS
					50	-6.55174	-0.00256	PASS
		20	LCH	VN	-30	-1.48773	-0.00059	PASS
					-20	-3.47614	-0.00138	PASS
					-10	-4.44889	-0.00177	PASS
					0	-2.27451	-0.00091	PASS
					10	-1.77383	-0.00071	PASS
					20	-3.46184	-0.00138	PASS
					30	-0.50068	-0.00020	PASS
					40	-1.83106	-0.00073	PASS
					50	-0.88692	-0.00035	PASS
			MCH	VN	-30	-2.66075	-0.00105	PASS
					-20	-48.0222 7	-0.01894	PASS
					-10	-4.39167	-0.00173	PASS
					0	-2.86102	-0.00113	PASS
					10	3.64780	0.00144	PASS
					20	-2.66075	-0.00105	PASS
					30	-2.18868	-0.00086	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-3.59058	-0.00142	PASS
					50	-2.77519	-0.00109	PASS
			HCH	VN	-30	-1.93119	-0.00075	PASS
					-20	-1.71661	-0.00067	PASS
					-10	-0.62943	-0.00025	PASS
					0	0.18597	0.00007	PASS
					10	-0.24319	-0.00009	PASS
					20	-0.60081	-0.00023	PASS
					30	0.92983	0.00036	PASS
					40	6.56605	0.00256	PASS
					50	0.85831	0.00034	PASS
	LTE/TM2	5	LCH	VN	-30	-0.17166	-0.00007	PASS
					-20	0.04292	0.00002	PASS
					-10	-1.05858	-0.00042	PASS
					0	-1.97411	-0.00079	PASS
					10	-0.64373	-0.00026	PASS
					20	-1.93119	-0.00077	PASS
					30	-2.18868	-0.00087	PASS
					40	0.01431	0.00001	PASS
					50	-5.49316	-0.00220	PASS
			MCH	VN	-30	-5.36442	-0.00212	PASS
					-20	-4.37737	-0.00173	PASS
					-10	-0.04292	-0.00002	PASS
					0	-0.71526	-0.00028	PASS
					10	-2.88963	-0.00114	PASS
					20	-5.27859	-0.00208	PASS
					30	-5.12123	-0.00202	PASS
					40	0.61512	0.00024	PASS
					50	-5.47886	-0.00216	PASS
			HCH	VN	-30	-1.20163	-0.00047	PASS
					-20	2.81811	0.00110	PASS
					-10	0.97275	0.00038	PASS
					0	0.41485	0.00016	PASS
					10	-2.67506	-0.00104	PASS
					20	-2.46048	-0.00096	PASS
					30	0.82970	0.00032	PASS
					40	-8.16822	-0.00318	PASS
					50	-4.29153	-0.00167	PASS
		10	LCH	VN	-30	-0.45776	-0.00018	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	0.14305	0.00006	PASS
					-10	-0.04292	-0.00002	PASS
					0	-4.39167	-0.00175	PASS
					10	0.68665	0.00027	PASS
					20	-0.92983	-0.00037	PASS
					30	-1.58787	-0.00063	PASS
					40	-1.87397	-0.00075	PASS
					50	-1.64509	-0.00066	PASS
			MCH	VN	-30	-21.6722 5	-0.00855	PASS
					-20	-3.43323	-0.00135	PASS
					-10	-18.5251 2	-0.00731	PASS
					0	0.75817	0.00030	PASS
					10	-1.77383	-0.00070	PASS
					20	-1.78814	-0.00071	PASS
					30	-14.6198 3	-0.00577	PASS
					40	-3.54767	-0.00140	PASS
					50	-3.46184	-0.00137	PASS
			HCH	VN	-30	-1.25885	-0.00049	PASS
					-20	-13.8330 5	-0.00539	PASS
					-10	-12.6171 1	-0.00492	PASS
					0	-13.6899 9	-0.00534	PASS
					10	-11.6300 6	-0.00453	PASS
					20	-13.9761 0	-0.00545	PASS
					30	-13.9474 9	-0.00544	PASS
					40	-21.4719 8	-0.00837	PASS
					50	0.02861	0.00001	PASS
		15	LCH	VN	-30	-2.13146	-0.00085	PASS
					-20	-2.90394	-0.00116	PASS
					-10	13.64708	0.00544	PASS
					0	-0.71526	-0.00029	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-8.78334	-0.00350	PASS
					20	0.18597	0.00007	PASS
					30	-7.46727	-0.00298	PASS
					40	-2.58923	-0.00103	PASS
					50	-0.87261	-0.00035	PASS
			MCH	VN	-30	-2.76089	-0.00109	PASS
					-20	-1.50204	-1.50204	PASS
					-10	0.02861	0.00001	PASS
					0	-2.96116	-0.00117	PASS
					10	-5.22137	-0.00206	PASS
					20	-2.26021	-0.00089	PASS
					30	-3.30448	-0.00130	PASS
					40	-3.24726	-0.00128	PASS
					50	-1.84536	-0.00073	PASS
			HCH	VN	-30	-3.20435	-0.00125	PASS
					-20	-6.79493	-0.00265	PASS
					-10	-2.11716	-0.00083	PASS
					0	-4.30584	-0.00168	PASS
					10	-4.70638	-0.00184	PASS
					20	-2.14577	-0.00084	PASS
					30	-1.78814	-0.00070	PASS
					40	-8.09670	-0.00316	PASS
					50	-1.77383	-0.00069	PASS
		20	LCH	VN	-30	-3.26157	-0.00130	PASS
					-20	-2.71797	-0.00108	PASS
					-10	-1.34468	-0.00054	PASS
					0	-0.70095	-0.00028	PASS
					10	-2.98977	-0.00119	PASS
					20	-2.63214	-0.00105	PASS
					30	-1.97411	-0.00079	PASS
					40	-40.7123 6	-0.01622	PASS
					50	-4.43459	-0.00177	PASS
			MCH	VN	-30	-0.82970	-0.00033	PASS
					-20	3.69072	0.00146	PASS
					-10	-3.97682	-0.00157	PASS
					0	-0.40054	-0.00016	PASS
					10	-2.88963	-0.00114	PASS
					20	-4.47750	-0.00177	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	-3.26157	-0.00129	PASS
					40	-2.37465	-0.00094	PASS
					50	-4.20570	-0.00166	PASS
			HCH	VN	-30	-1.95980	-0.00077	PASS
					-20	0.77248	0.00030	PASS
					-10	-1.27316	-0.00050	PASS
					0	-0.61512	-0.00024	PASS
					10	34.99031	0.01367	PASS
					20	-1.21593	-0.00047	PASS
					30	-0.24319	-0.00009	PASS
					40	1.43051	0.00056	PASS
					50	1.14441	0.00045	PASS

END