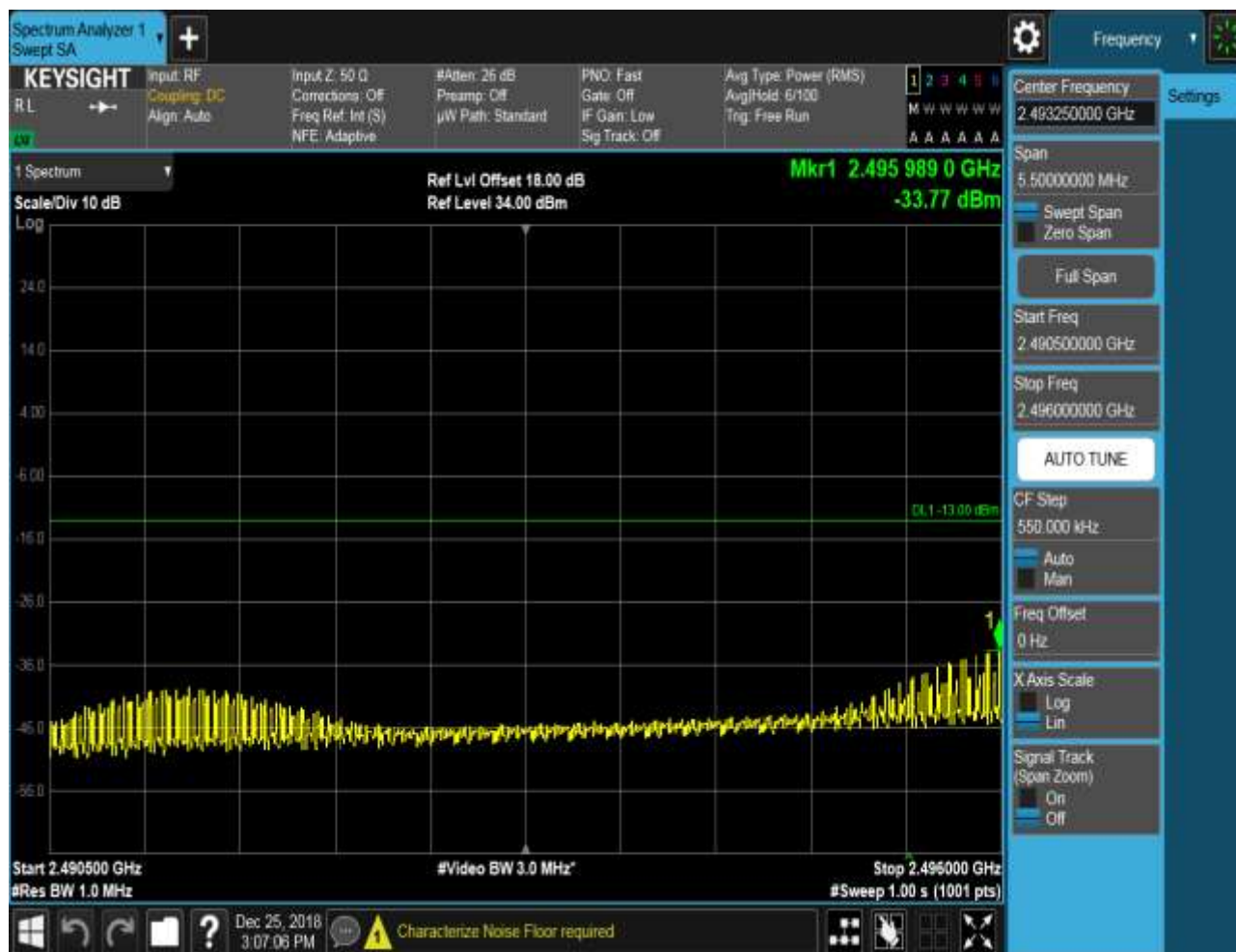


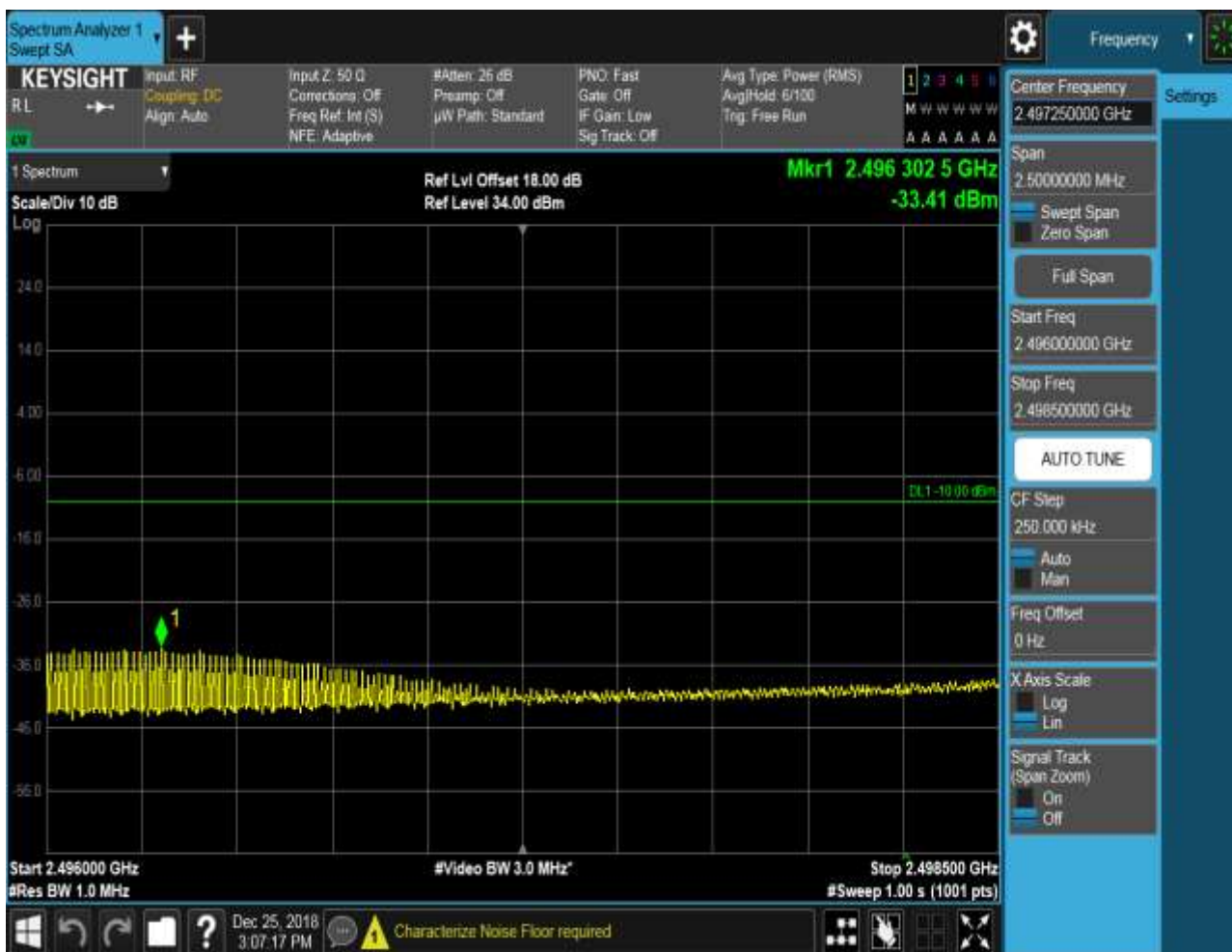


5.1.1.2.2 Test Bandwidth = 20+20

5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







5.1.1.2.1.2 PCC Test RB = partial RBs #0 & SCC Test RB = 0







5.1.1.2.2.1.3 PCC Test RB = full RBs & SCC Test RB = 0







5.1.1.2.2.1.4 PCC Test RB = full RBs & SCC Test RB = full RBs





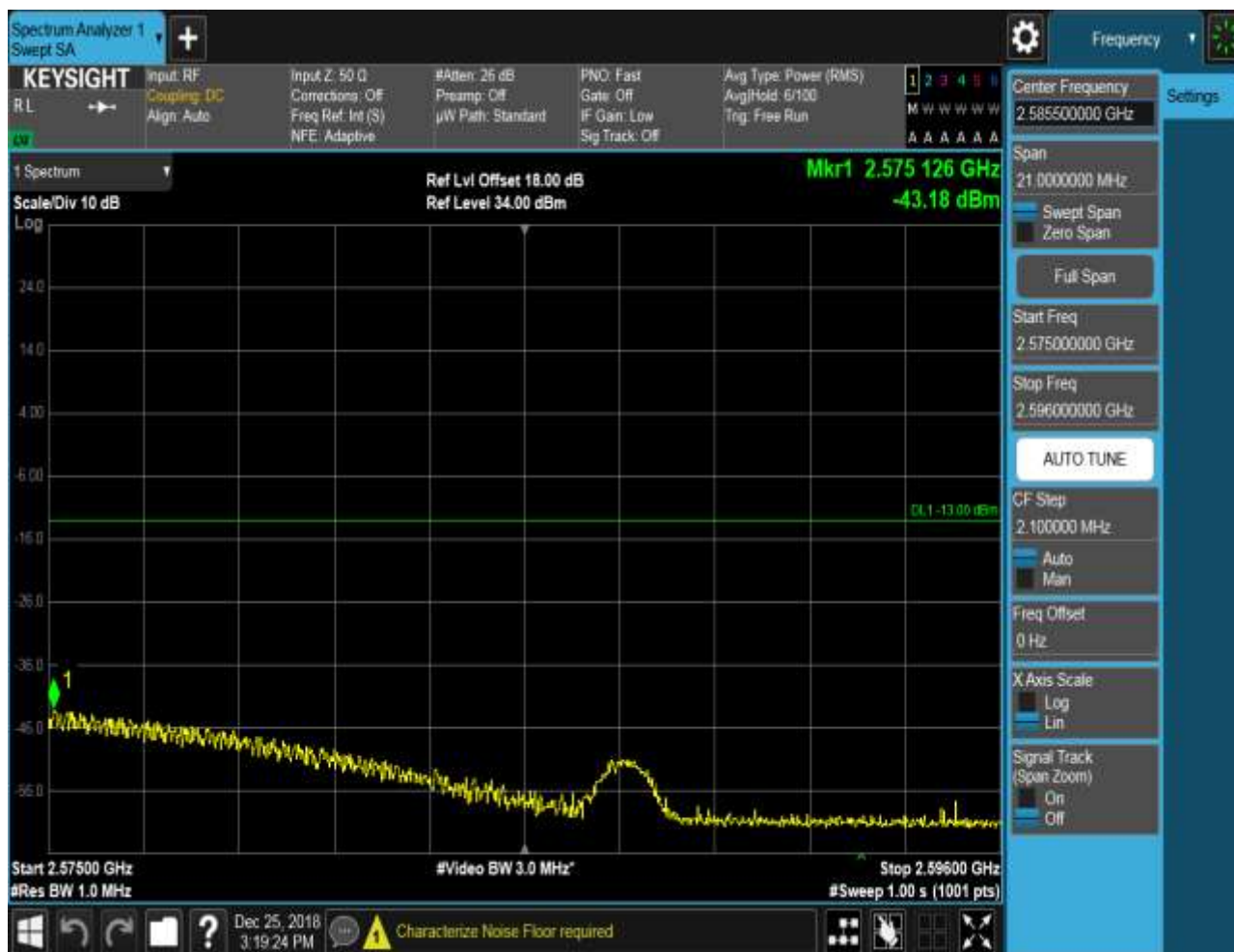


5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 PCC Test RB = 0 & SCC Test RB = 1 # max







5.1.1.2.2.2 PCC Test RB = 0 & SCC Test RB = partial RBs #max







5.1.1.2.2.3 PCC Test RB = 0 & SCC Test RB = full RBs







5.1.1.2.2.4 PCC Test RB = full RBs & SCC Test RB = full RBs







6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = CA_7C

6.1.1.1 Test Mode = LTE/TM1

6.1.1.1.1 Test Bandwidth = 15+15

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







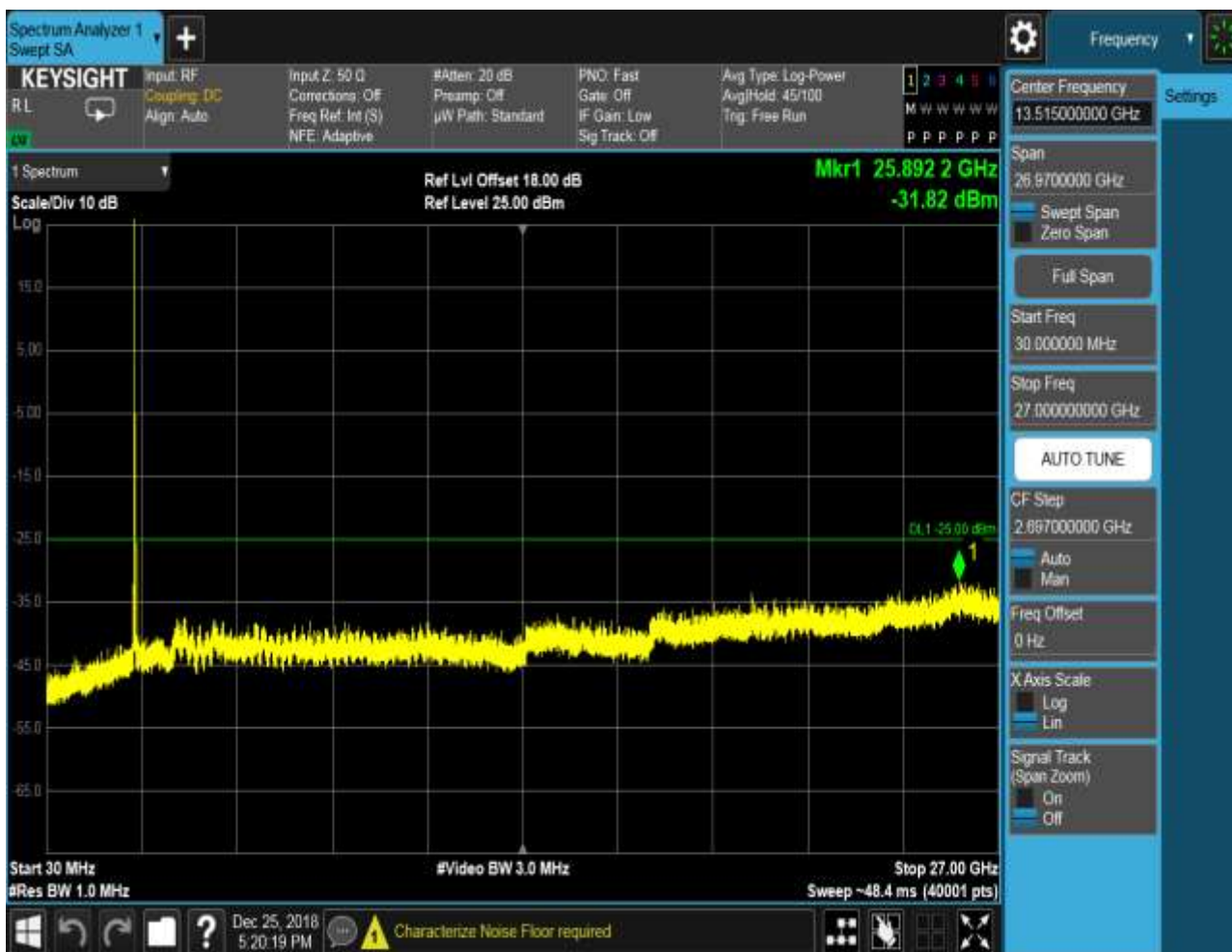
6.2.1.1.2 Test Bandwidth = 20+20

6.2.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







6.2.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







6.2.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







6.2.1.2 Test Mode = LTE/TM2

6.2.1.2.1 Test Bandwidth = 15+15

6.2.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







6.2.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







6.2.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







6.2.1.2.2 Test Bandwidth = 20+20

6.2.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







6.2.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







6.2.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 PCC Test RB = 1 # 0 & SCC Test RB = 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

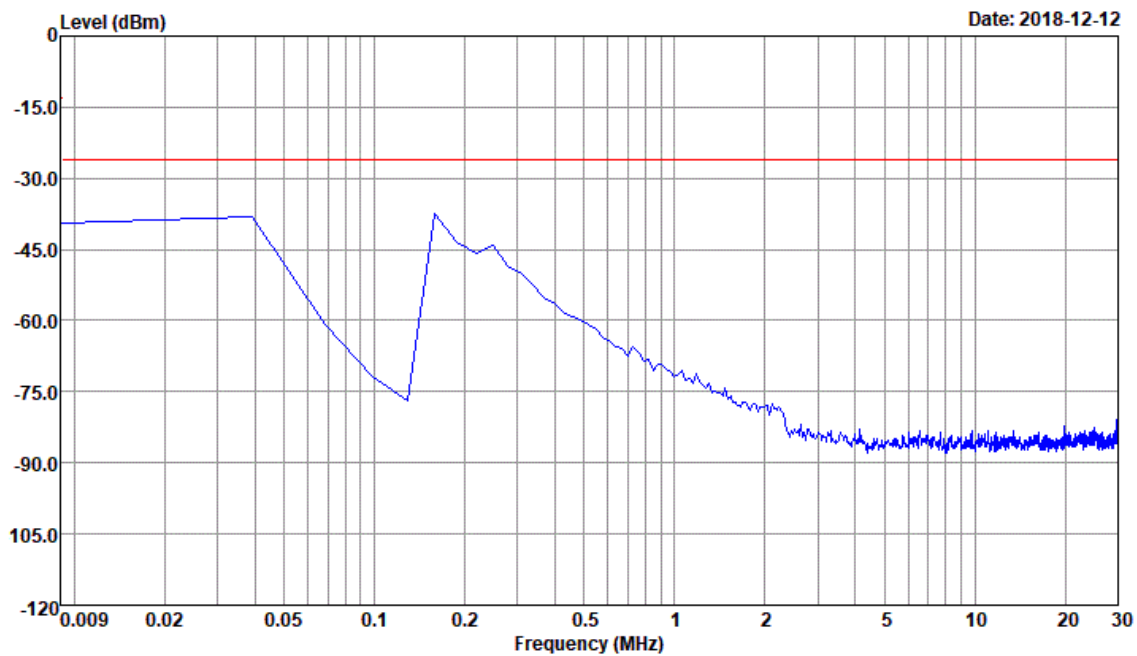
7.1 For LTE

7.1.1 Test Band = CA_7C_ANT1

7.1.1.1 Test Bandwidth = 15+15

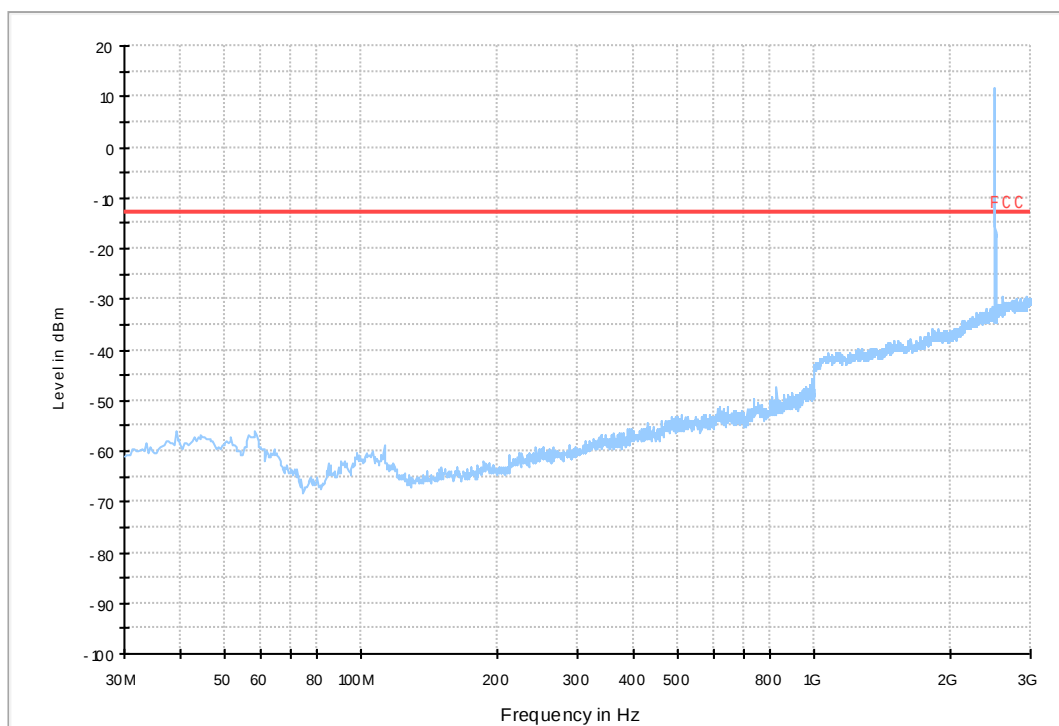


Data: 76

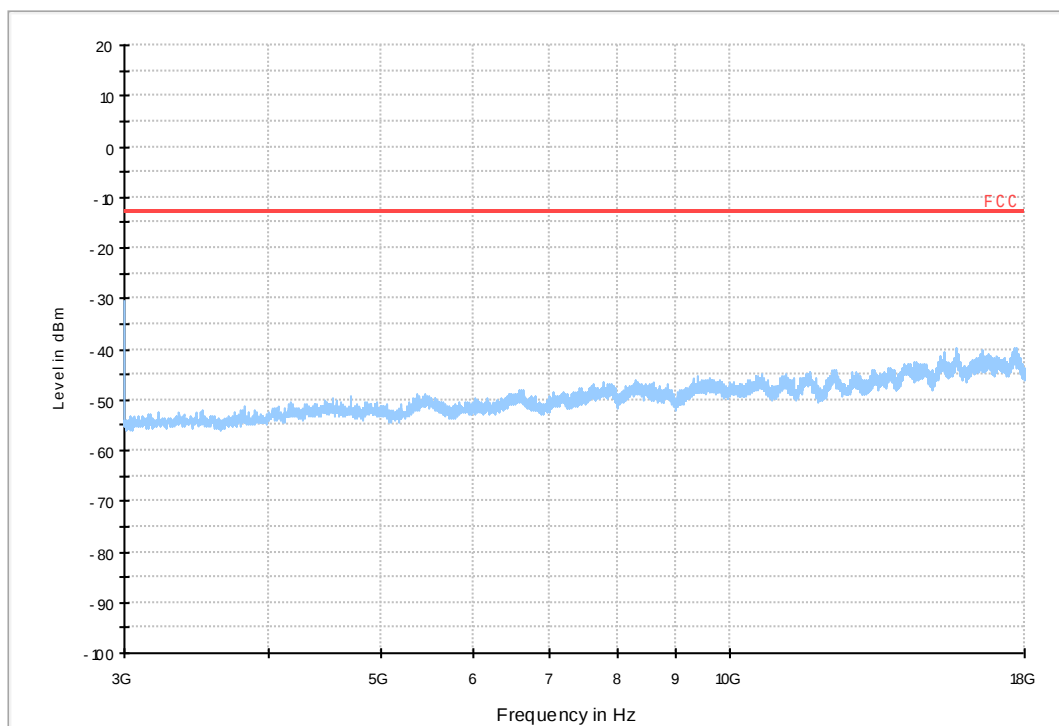


Site : 03CH01-SZ
 Condition : -13DBM
 : RBW:9.000KHz VBW:30.000KHz

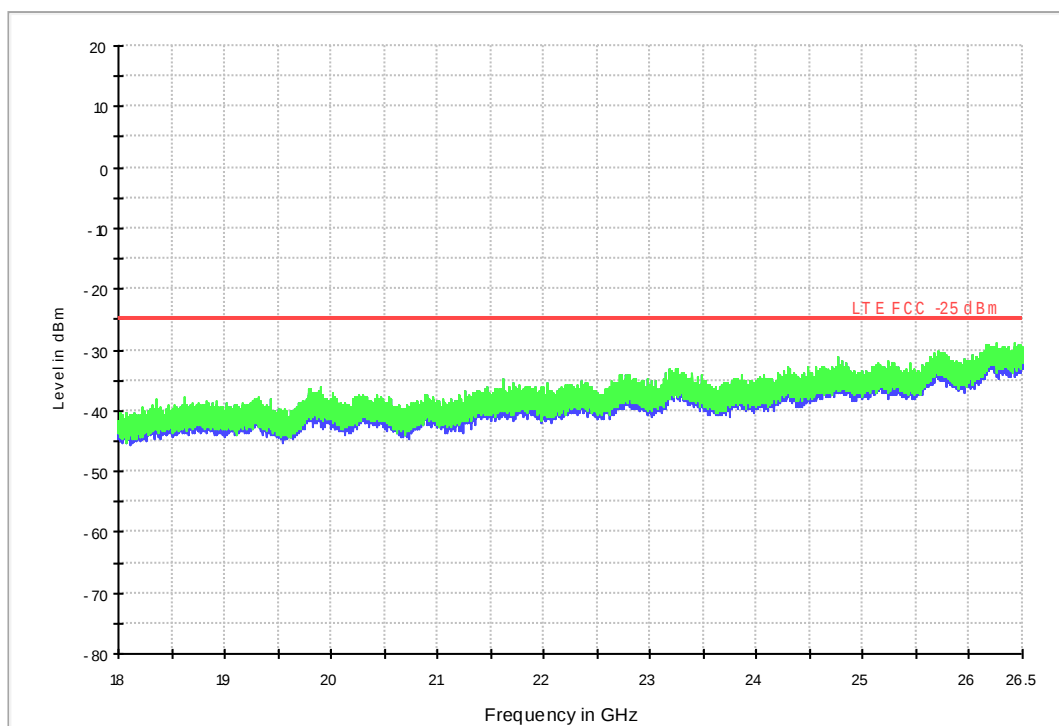
LTE FDD R SE-TX-DIRECTOR ABOVE 1.5G_L



LTE FDD R SE-TX-DIRECTOR ABOVE 1.5G_H



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

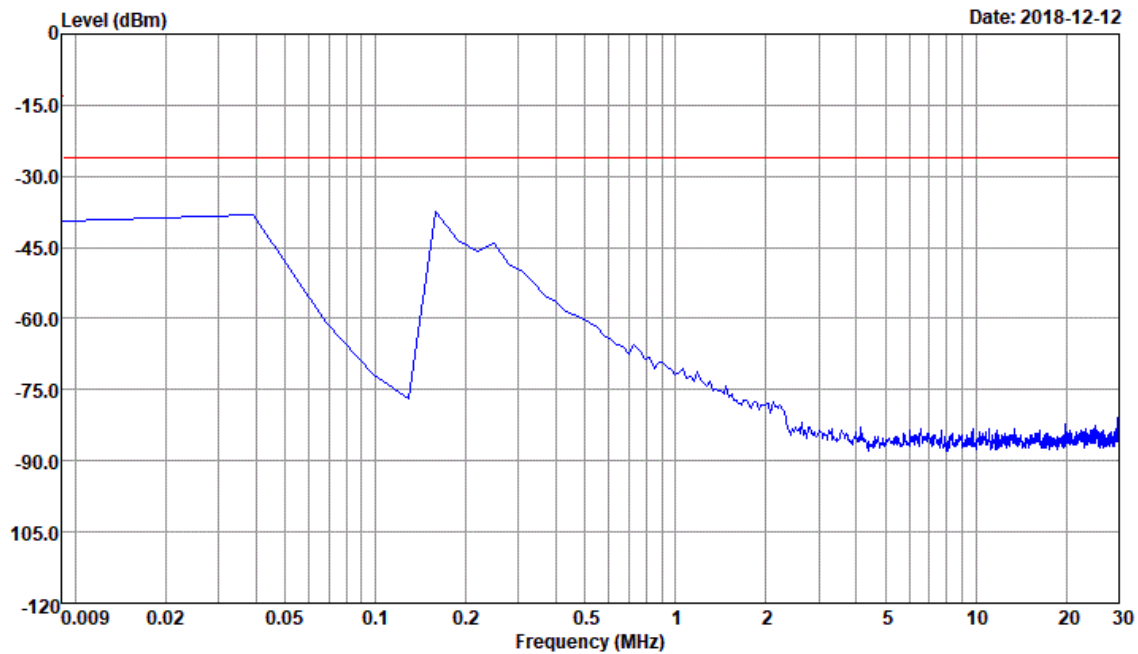


7.1.1.2 Test Bandwidth = 20+20



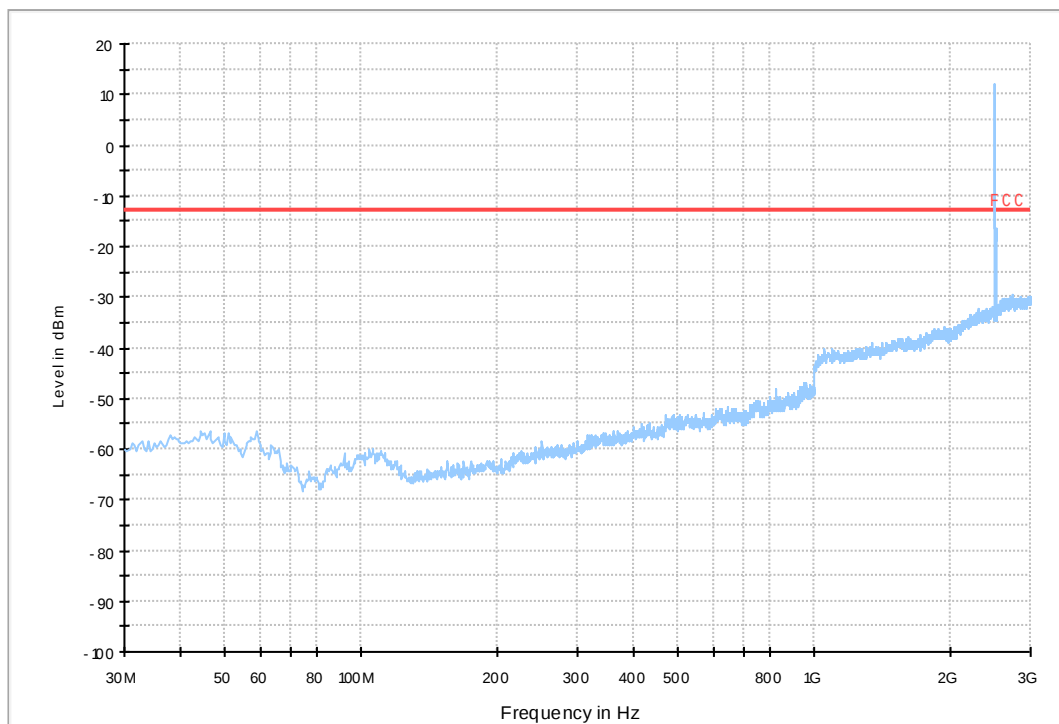
Data: 76

Date: 2018-12-12

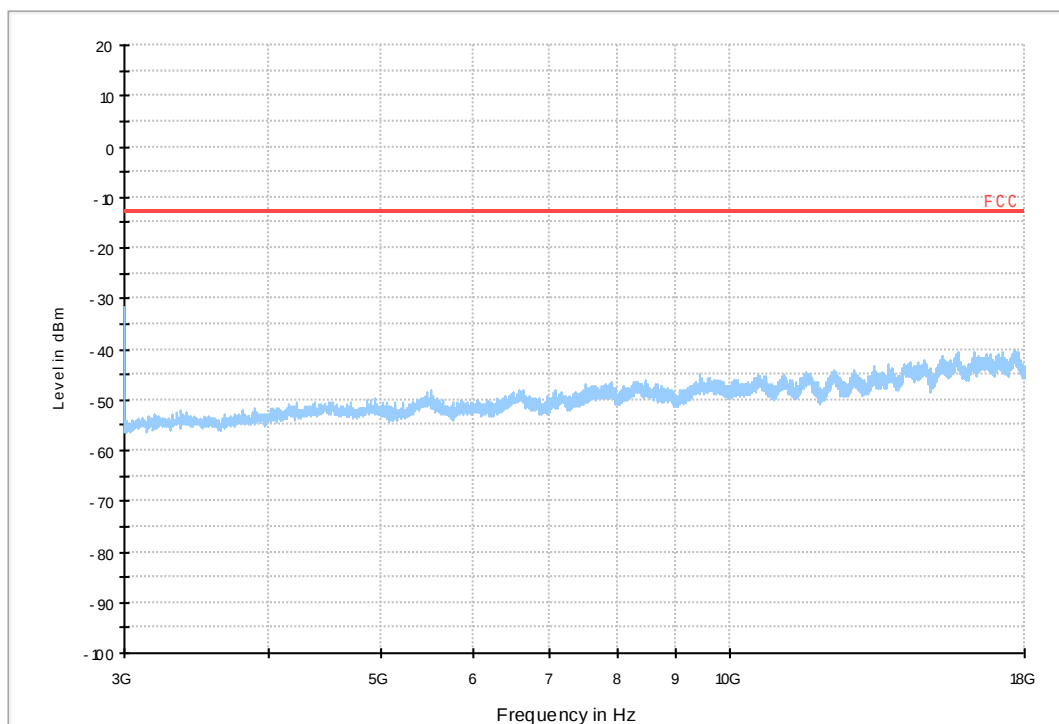


Site : 03CH01-SZ
Condition : -13DBM
: RBW:9.000KHz VBW:30.000KHz

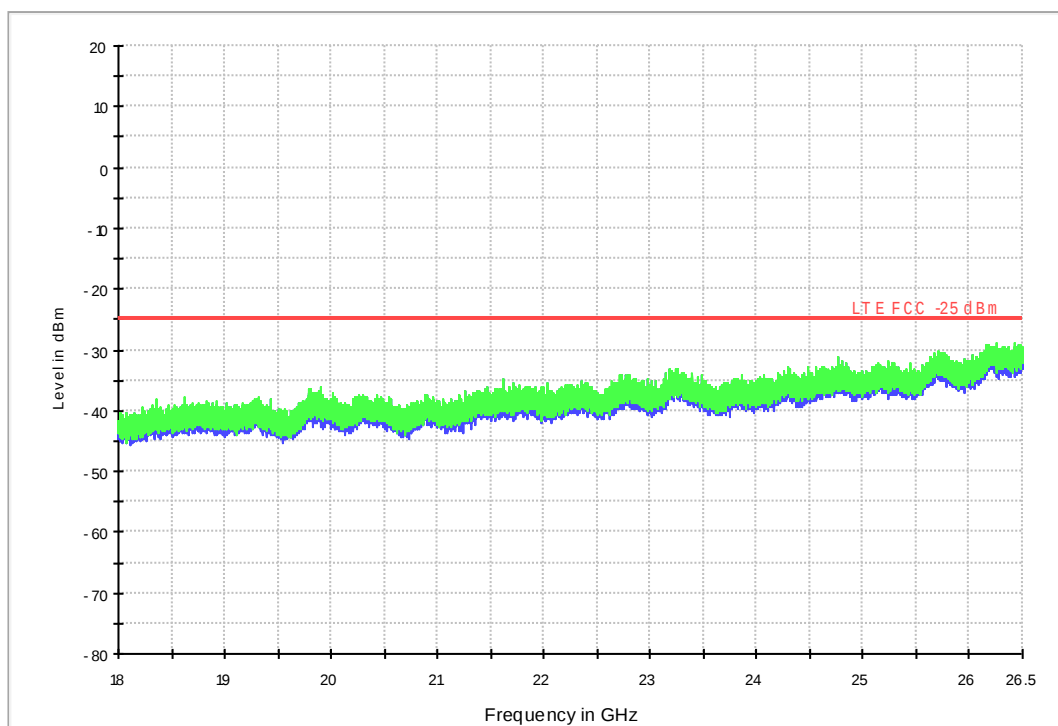
LTE FDD R SE-TX-DIRECTOR ABOVE 1.5G_L



LTE FDD R SE-TX-DIRECTOR ABOVE 1.5G_H



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





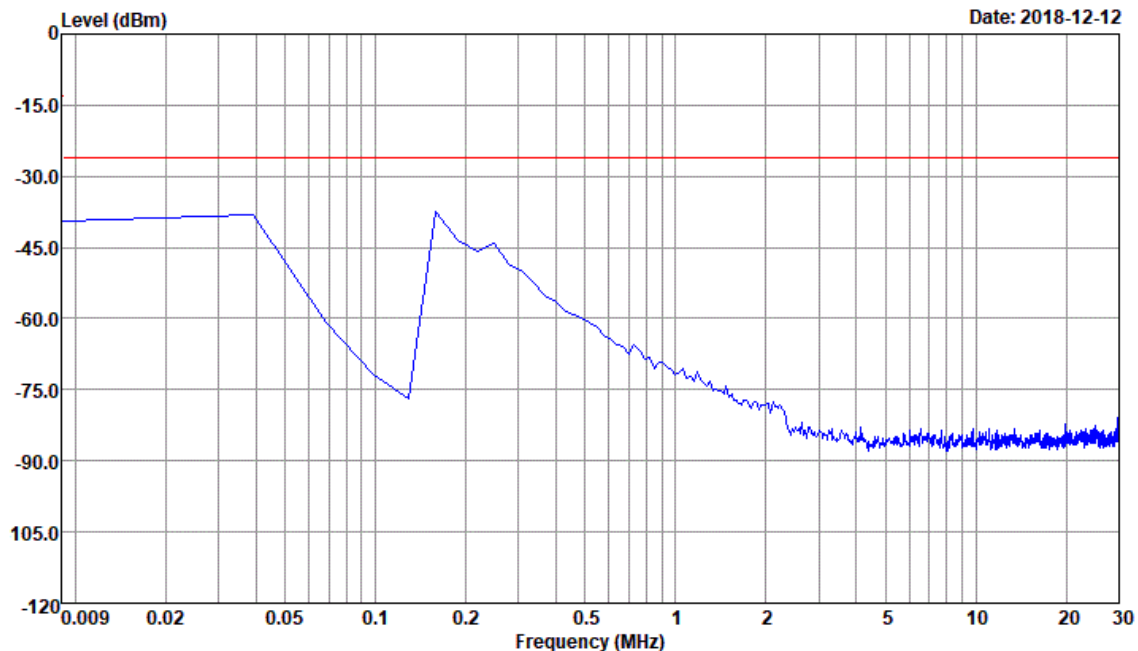
7.1.2 Test Band = CA_7C_ANT2

7.1.2.1 Test Bandwidth = 15+15



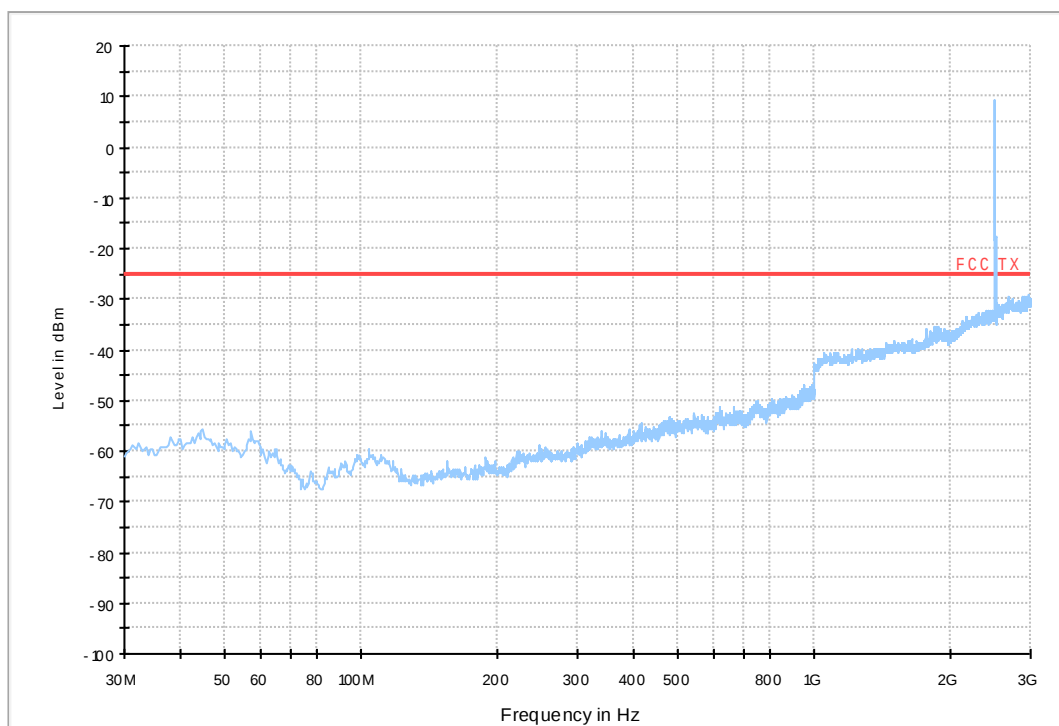
Data: 76

Date: 2018-12-12

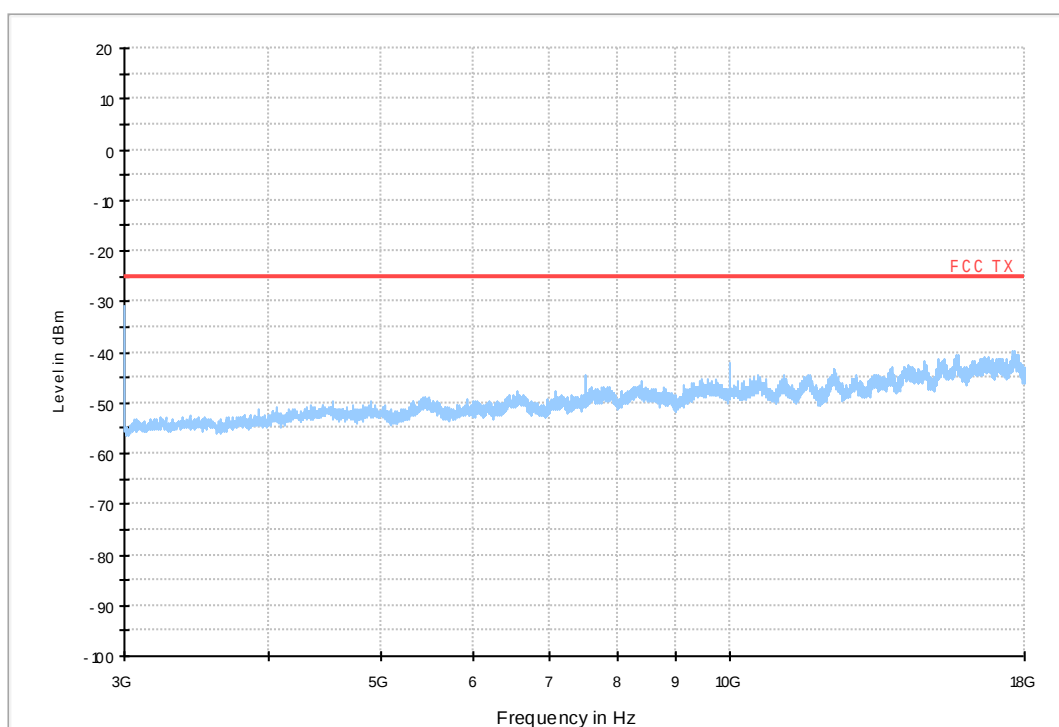


Site : 03CH01-SZ
 Condition : -13DBM
 : RBW:9.000KHz VBW:30.000KHz

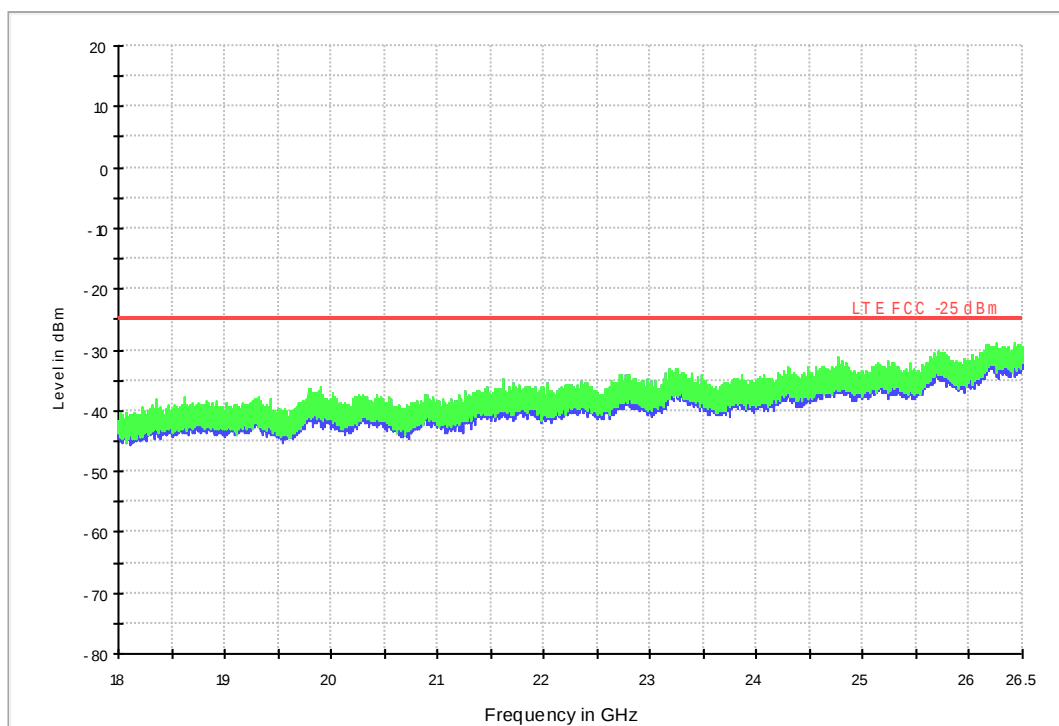
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



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



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

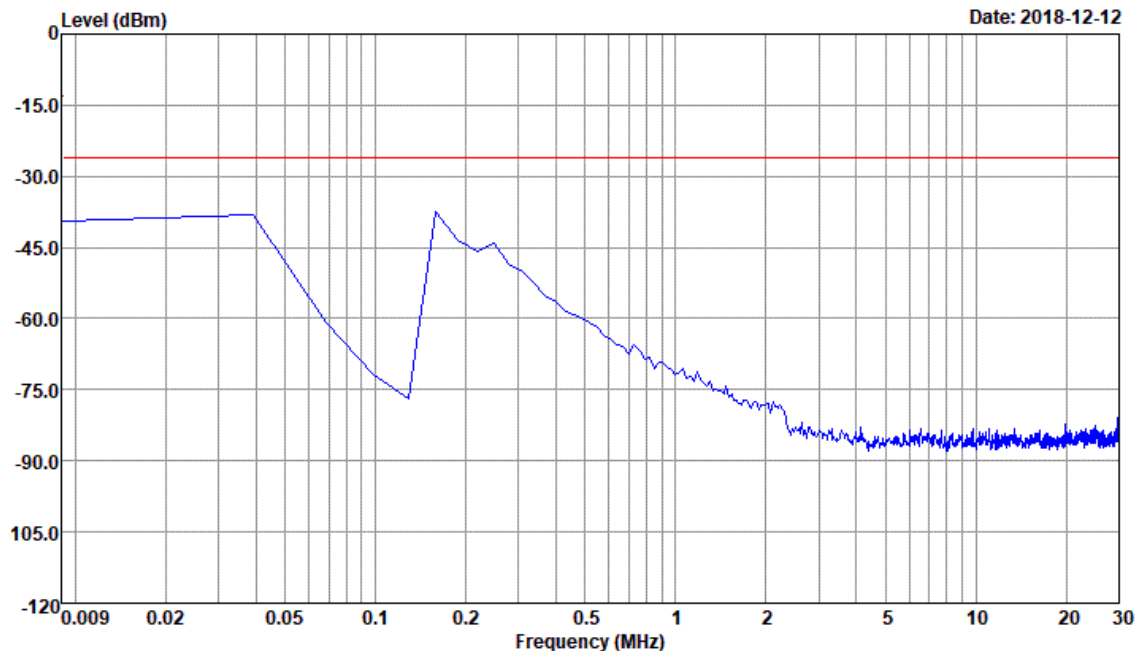


7.1.2.2 Test Bandwidth = 20+20



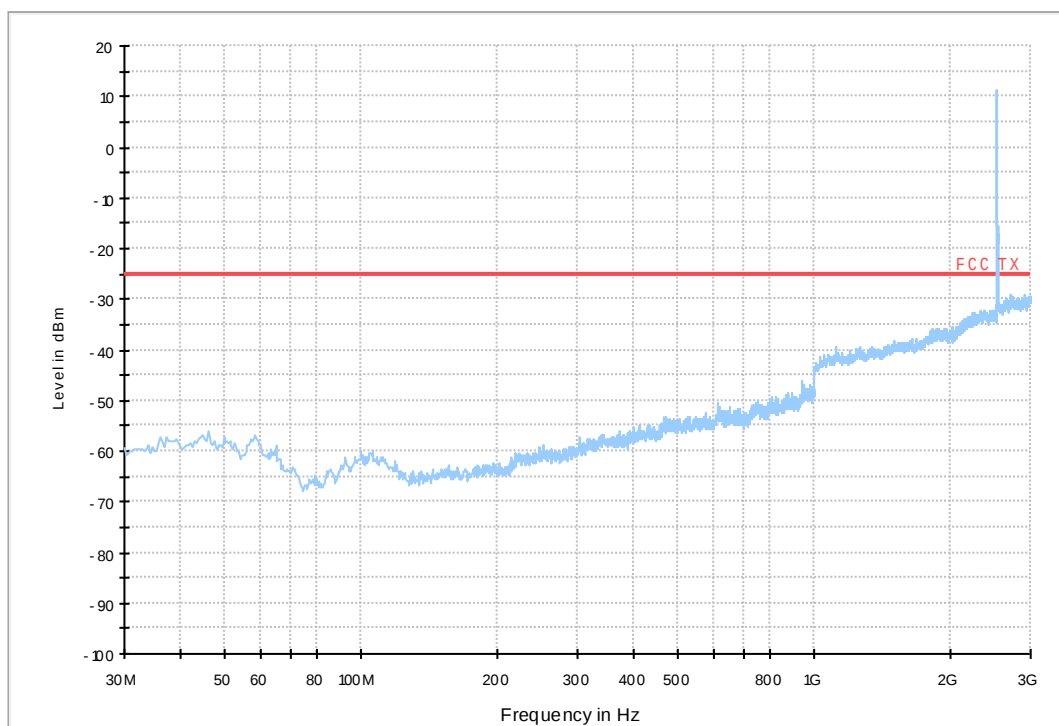
Data: 76

Date: 2018-12-12

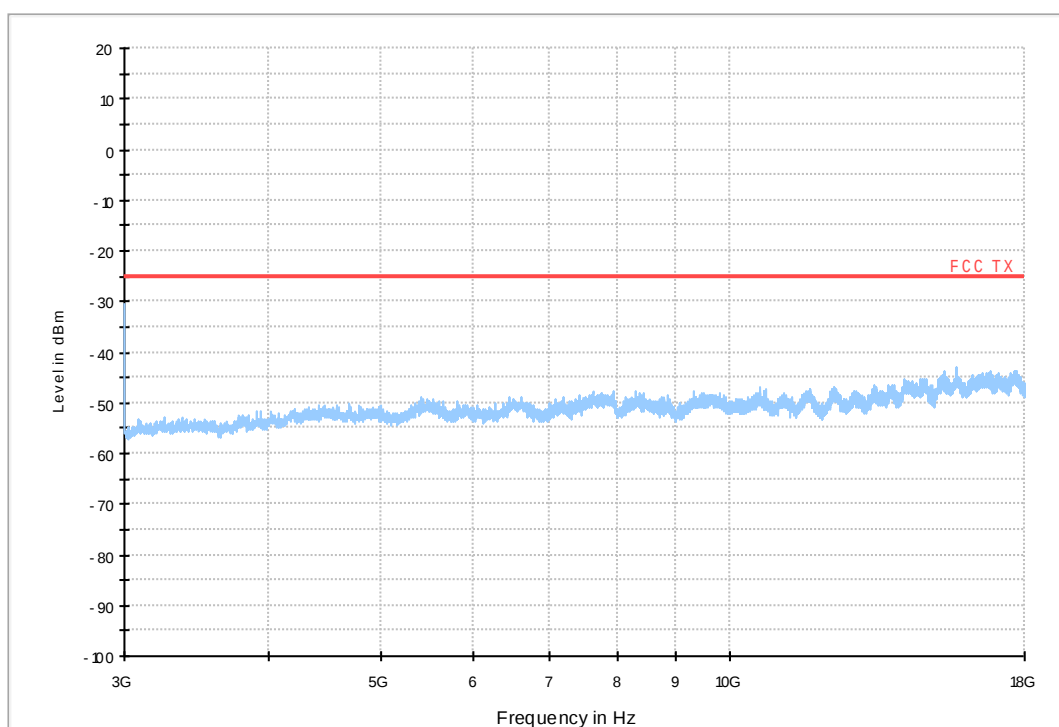


Site : 03CH01-SZ
 Condition : -13DBM
 : RBW:9.000KHz VBW:30.000KHz

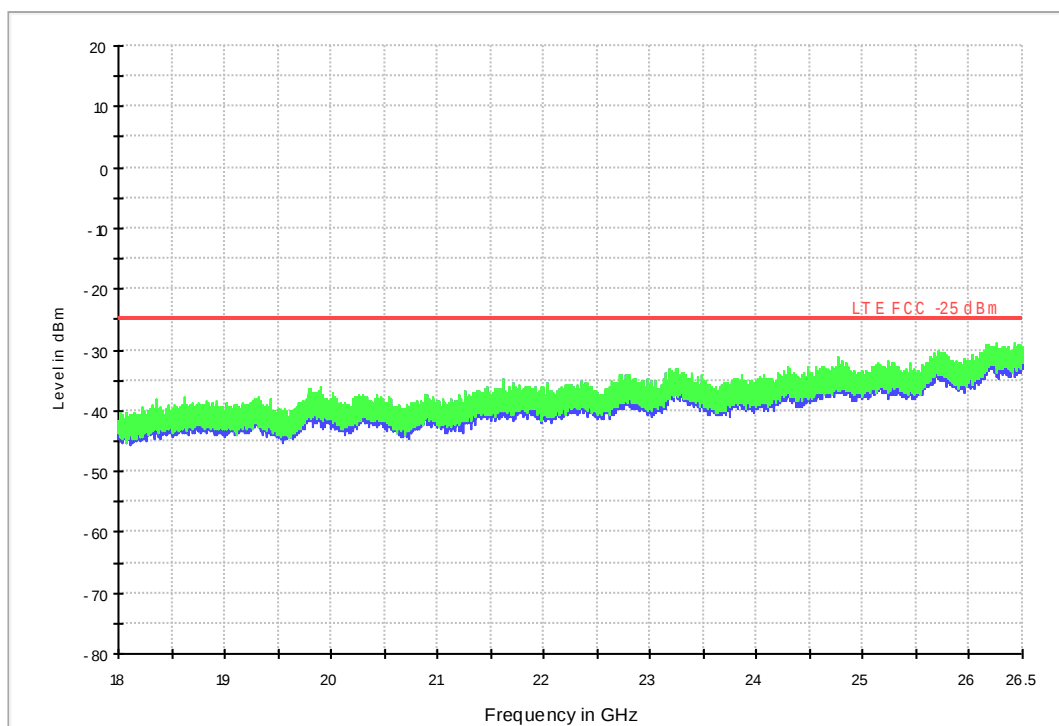
LTE Band 7 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



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
CA_7C	LTE/TM1	15+15	LCH	TN	VL	-25.33000	-0.01010	PASS
					VN	-18.05000	-0.00720	PASS
					VH	-13.45000	-0.00536	PASS
			MCH	TN	VL	-26.78000	-0.01060	PASS
					VN	-15.42000	-0.00610	PASS
					VH	-18.10000	-0.00716	PASS
		20+20	HCH	TN	VL	-27.31000	-0.01072	PASS
					VN	-18.88000	-0.00741	PASS
					VH	-12.75000	-0.00500	PASS
			LCH	TN	VL	-30.81000	-0.01227	PASS
					VN	-16.69000	-0.00665	PASS
					VH	-18.45000	-0.00735	PASS
	LTE/TM2	15+15	MCH	TN	VL	-26.98000	-0.01068	PASS
					VN	-20.59000	-0.00815	PASS
					VH	-15.56000	-0.00616	PASS
			HCH	TN	VL	-26.55000	-0.01045	PASS
					VN	-18.70000	-0.00736	PASS
					VH	-15.02000	-0.00591	PASS
		20+20	LCH	TN	VL	-19.87000	-0.00792	PASS
					VN	-30.18000	-0.01204	PASS
					VH	-26.91000	-0.01073	PASS
			MCH	TN	VL	-19.00000	-0.00752	PASS
					VN	-28.34000	-0.01121	PASS
					VH	-28.67000	-0.01134	PASS
		20+20	HCH	TN	VL	-24.33000	-0.00955	PASS
					VN	-23.98000	-0.00941	PASS
					VH	-26.74000	-0.01050	PASS
			LCH	TN	VL	-29.93000	-0.01192	PASS
					VN	-35.76000	-0.01425	PASS
					VH	-28.65000	-0.01141	PASS
			MCH	TN	VL	-22.99000	-0.00910	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-32.72000	-0.01296	PASS
					VH	-25.09000	-0.00994	PASS
			HCH	TN	VL	-25.03000	-0.00985	PASS
					VN	-27.85000	-0.01096	PASS
					VH	-24.73000	-0.00974	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
CA_7C	LTE/TM1	15+15	LCH	VN	-30	-19.08000	-0.00761	PASS
					-20	-13.32000	-0.00531	PASS
					-10	-16.51000	-0.00658	PASS
					0	-1.27000	-0.00051	PASS
					10	-0.64000	-0.00026	PASS
					20	-18.05000	-0.00720	PASS
					30	-14.69000	-0.00586	PASS
					40	-15.85000	-0.00632	PASS
					50	-11.32000	-0.00451	PASS
			MCH	VN	-30	-18.18000	-0.00719	PASS
					-20	-19.86000	-0.00786	PASS
					-10	-18.71000	-0.00740	PASS
					0	-4.36000	-0.00173	PASS
					10	-1.29000	-0.00051	PASS
					20	-15.42000	-0.00610	PASS
					30	-13.10000	-0.00518	PASS
					40	-14.38000	-0.00569	PASS
					50	-13.33000	-0.00527	PASS
			HCH	VN	-30	-14.61000	-0.00574	PASS
					-20	-17.74000	-0.00696	PASS
					-10	-12.90000	-0.00506	PASS
					0	-2.53000	-0.00099	PASS
					10	-1.46000	-0.00057	PASS
					20	-18.88000	-0.00741	PASS
					30	-18.37000	-0.00721	PASS
					40	-14.15000	-0.00555	PASS
					50	-16.29000	-0.00639	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		20+20	LCH	VN	-30	-18.95000	-0.00755	PASS
					-20	-17.19000	-0.00685	PASS
					-10	-17.18000	-0.00684	PASS
					0	-1.39000	-0.00055	PASS
					10	-1.87000	-0.00075	PASS
					20	-16.69000	-0.00665	PASS
					30	-20.87000	-0.00831	PASS
					40	-22.02000	-0.00877	PASS
					50	-16.15000	-0.00643	PASS
			MCH	VN	-30	-17.68000	-0.00700	PASS
					-20	-18.10000	-0.00717	PASS
					-10	-13.30000	-0.00527	PASS
					0	-0.59000	-0.00023	PASS
					10	-1.33000	-0.00053	PASS
					20	-20.59000	-0.00815	PASS
					30	-18.95000	-0.00750	PASS
					40	-19.70000	-0.00780	PASS
					50	-14.23000	-0.00564	PASS
			HCH	VN	-30	-18.32000	-0.00721	PASS
					-20	-17.35000	-0.00683	PASS
					-10	-19.30000	-0.00760	PASS
					0	-0.23000	-0.00009	PASS
					10	-5.19000	-0.00204	PASS
					20	-18.70000	-0.00736	PASS
					30	-20.86000	-0.00821	PASS
					40	-14.22000	-0.00560	PASS
					50	-19.00000	-0.00748	PASS
	LTE/TM2	15+15	LCH	VN	-30	-31.37000	-0.01251	PASS
					-20	-26.89000	-0.01072	PASS
					-10	-25.66000	-0.01023	PASS
					0	-1.95000	-0.00078	PASS
					10	-2.92000	-0.00116	PASS
					20	-30.18000	-0.01204	PASS
					30	-29.37000	-0.01171	PASS
					40	-24.70000	-0.00985	PASS
					50	-29.40000	-0.01172	PASS
			MCH	VN	-30	-27.55000	-0.01090	PASS
					-20	-25.23000	-0.00998	PASS
					-10	-31.91000	-0.01263	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-3.82000	-0.00151	PASS
					10	-1.43000	-0.00057	PASS
					20	-28.34000	-0.01121	PASS
					30	-26.31000	-0.01041	PASS
					40	-27.92000	-0.01105	PASS
					50	-24.88000	-0.00984	PASS
			HCH	VN	-30	-26.18000	-0.01028	PASS
					-20	-30.87000	-0.01212	PASS
					-10	-25.63000	-0.01006	PASS
					0	-1.60000	-0.00063	PASS
					10			PASS
					20	-23.98000	-0.00941	PASS
					30	-26.66000	-0.01047	PASS
					40	-25.26000	-0.00992	PASS
					50	-27.47000	-0.01078	PASS
		20+20	LCH	VN	-30	-28.11000	-0.01120	PASS
					-20	-27.68000	-0.01103	PASS
					-10	-30.91000	-0.01231	PASS
					0	-2.39000	-0.00095	PASS
					10	-1.40000	-0.00056	PASS
					20	-35.76000	-0.01425	PASS
					30	-26.36000	-0.01050	PASS
					40	-31.96000	-0.01273	PASS
					50	-27.82000	-0.01108	PASS
			MCH	VN	-30	-28.95000	-0.01146	PASS
					-20	-27.51000	-0.01089	PASS
					-10	-24.91000	-0.00986	PASS
					0	-0.40000	-0.00016	PASS
					10	-0.84000	-0.00033	PASS
					20	-32.72000	-0.01296	PASS
					30	-33.26000	-0.01317	PASS
					40	-30.13000	-0.01193	PASS
					50	-29.03000	-0.01150	PASS
			HCH	VN	-30	-26.84000	-0.01057	PASS
					-20	-25.72000	-0.01013	PASS
					-10	-27.02000	-0.01064	PASS
					0	0.16000	0.00006	PASS
					10	0.53000	0.00021	PASS
					20	-27.85000	-0.01096	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	-25.31000	-0.00996	PASS
					40	-28.34000	-0.01116	PASS
					50	-30.43000	-0.01198	PASS

END