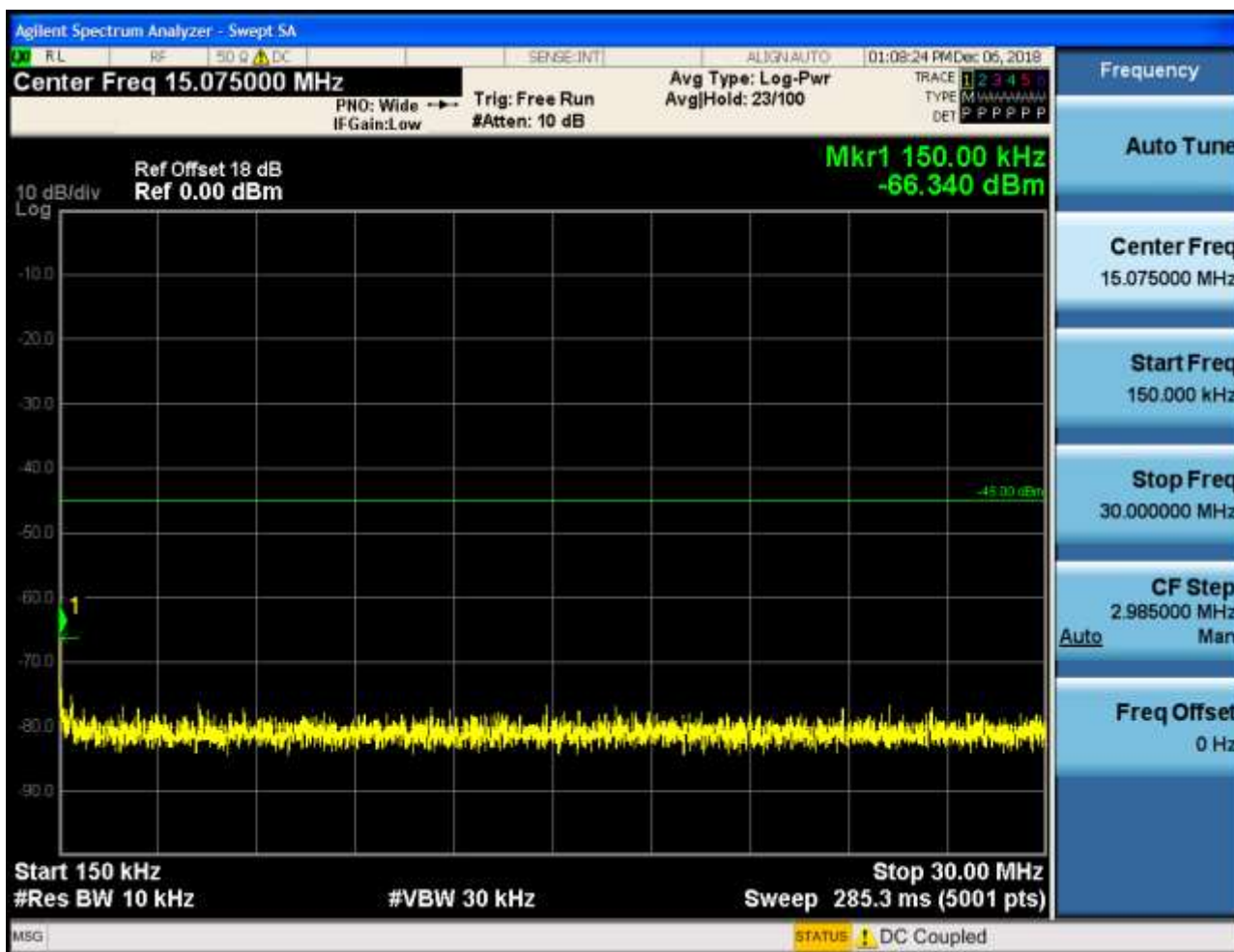




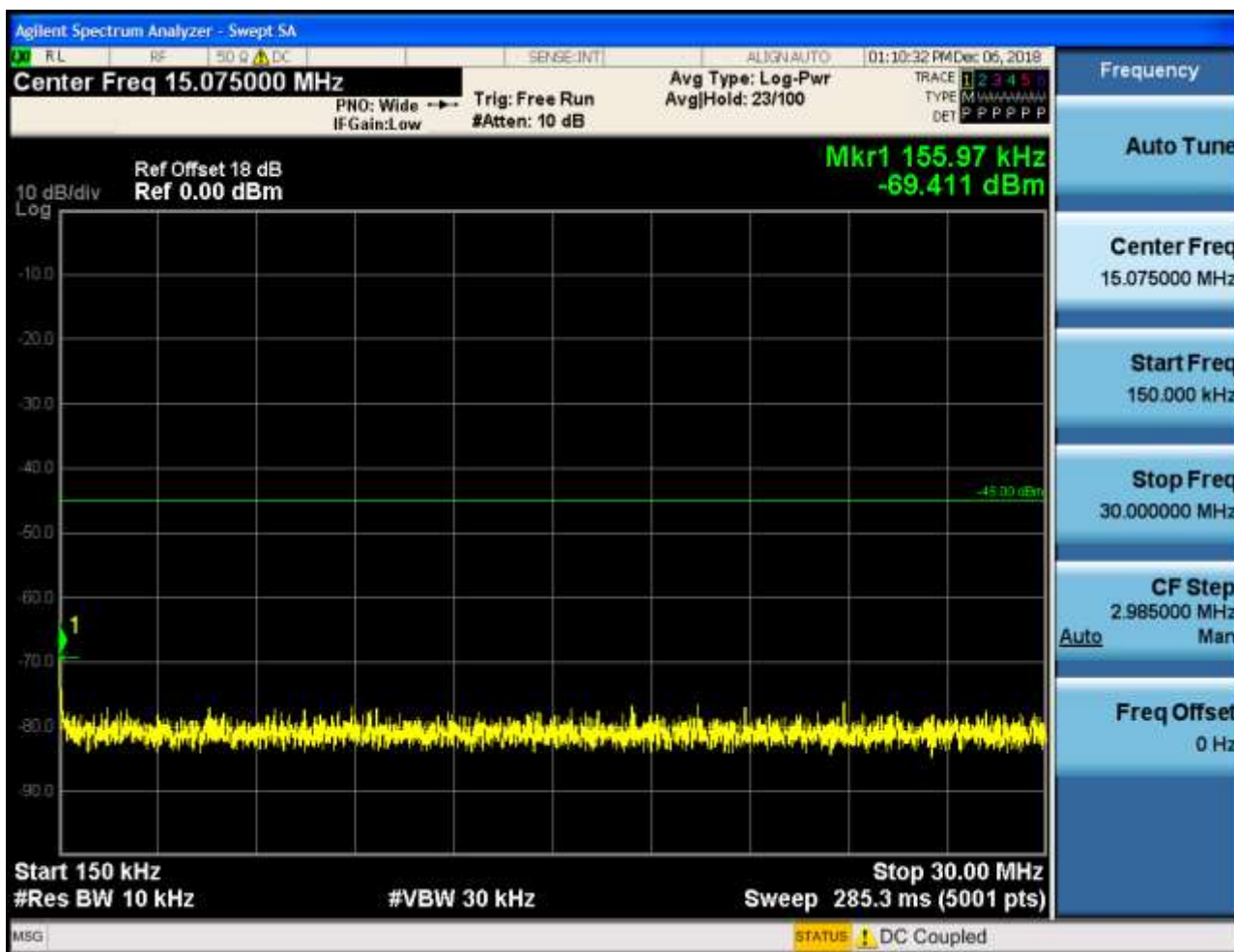


6.2.1.1.3 Test Bandwidth = 15

6.2.1.1.3.1 Test Channel = LCH

6.2.1.1.3.1.1 Test RB = RB1#0



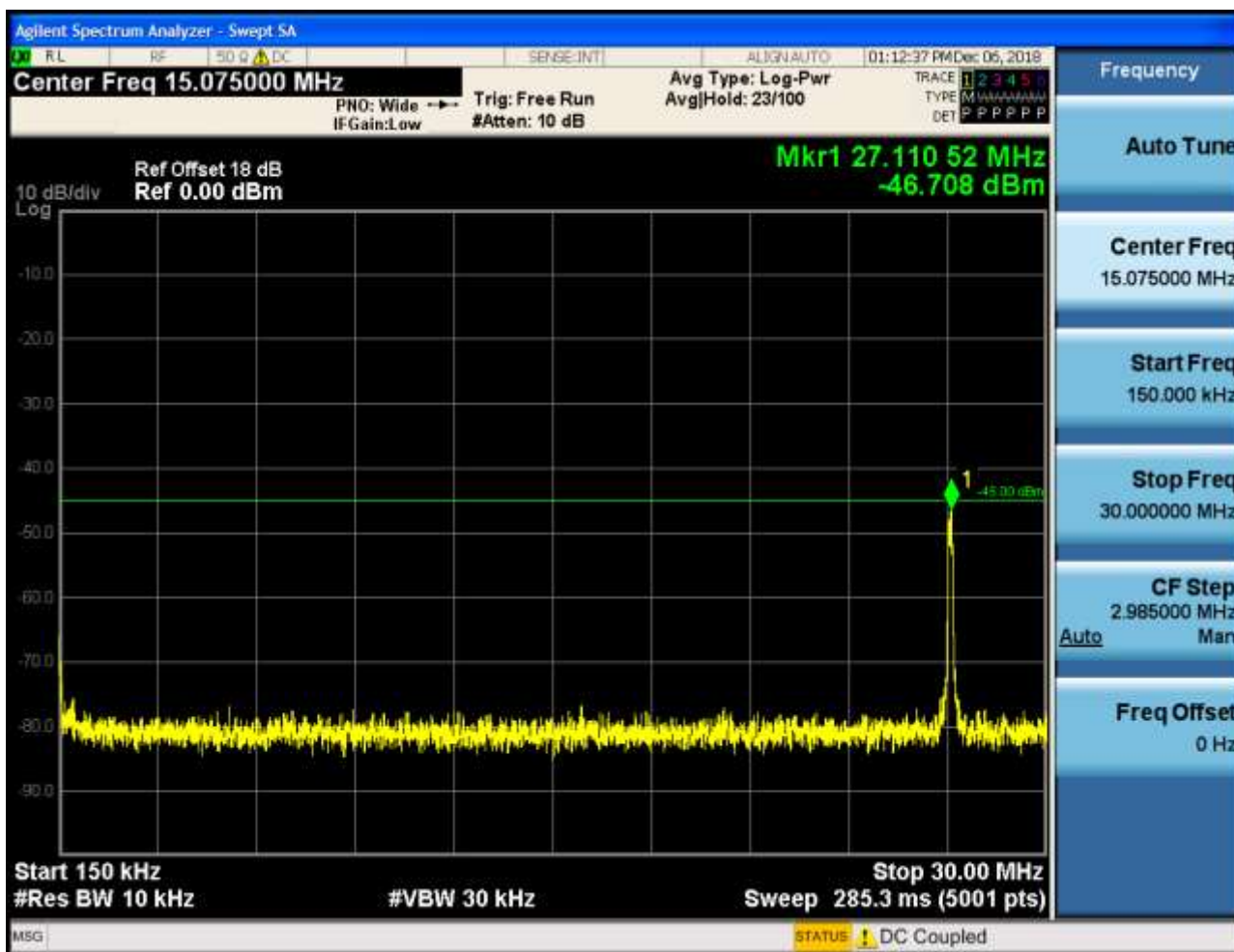




6.2.1.1.3.2 Test Channel = MCH

6.2.1.1.3.2.1 Test RB = RB1#0



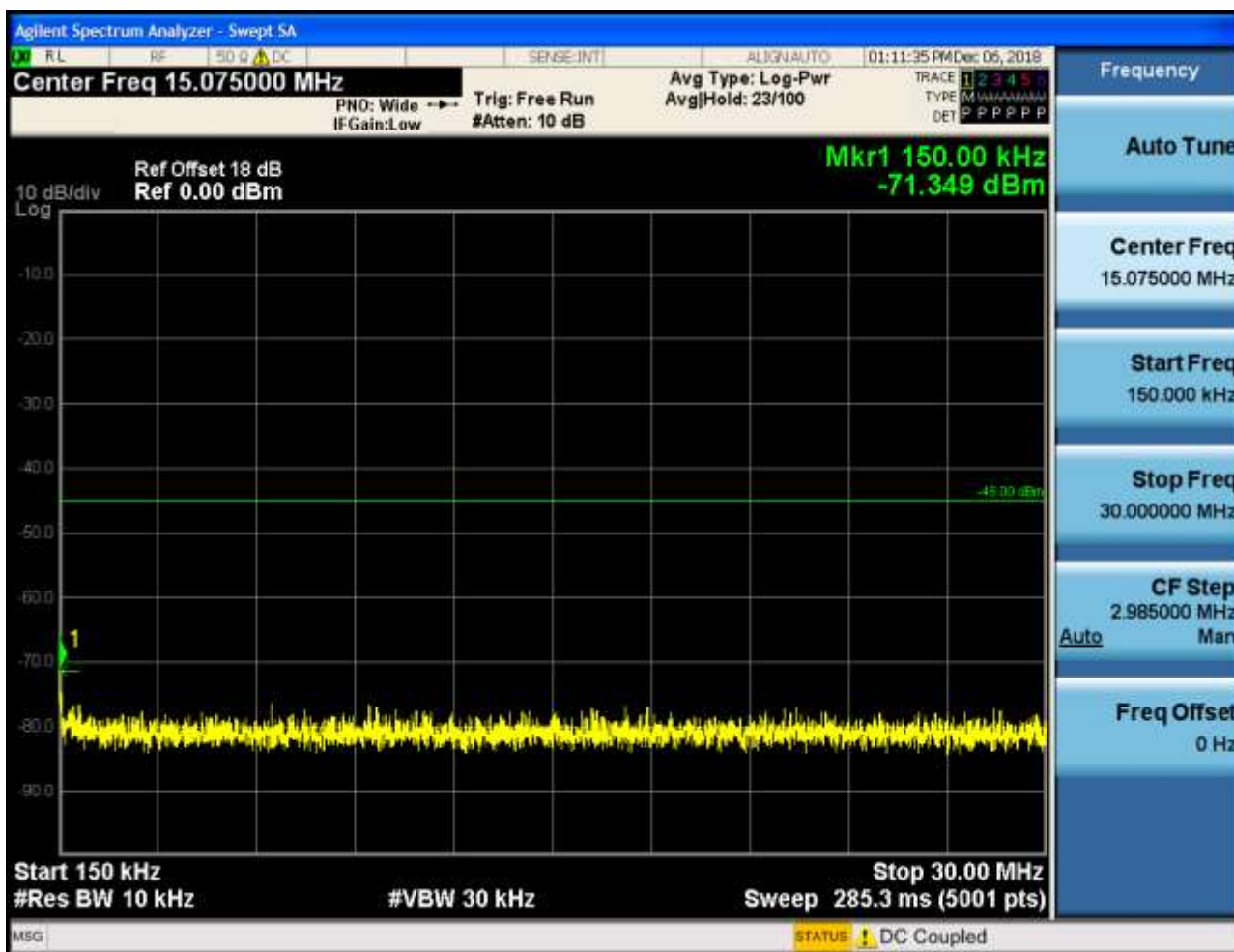




6.2.1.1.3.3 Test Channel = HCH

6.2.1.1.3.3.1 Test RB = RB1#0







6.2.1.1.4 Test Bandwidth = 20

6.2.1.1.4.1 Test Channel = LCH

6.2.1.1.4.1.1 Test RB = RB1#0



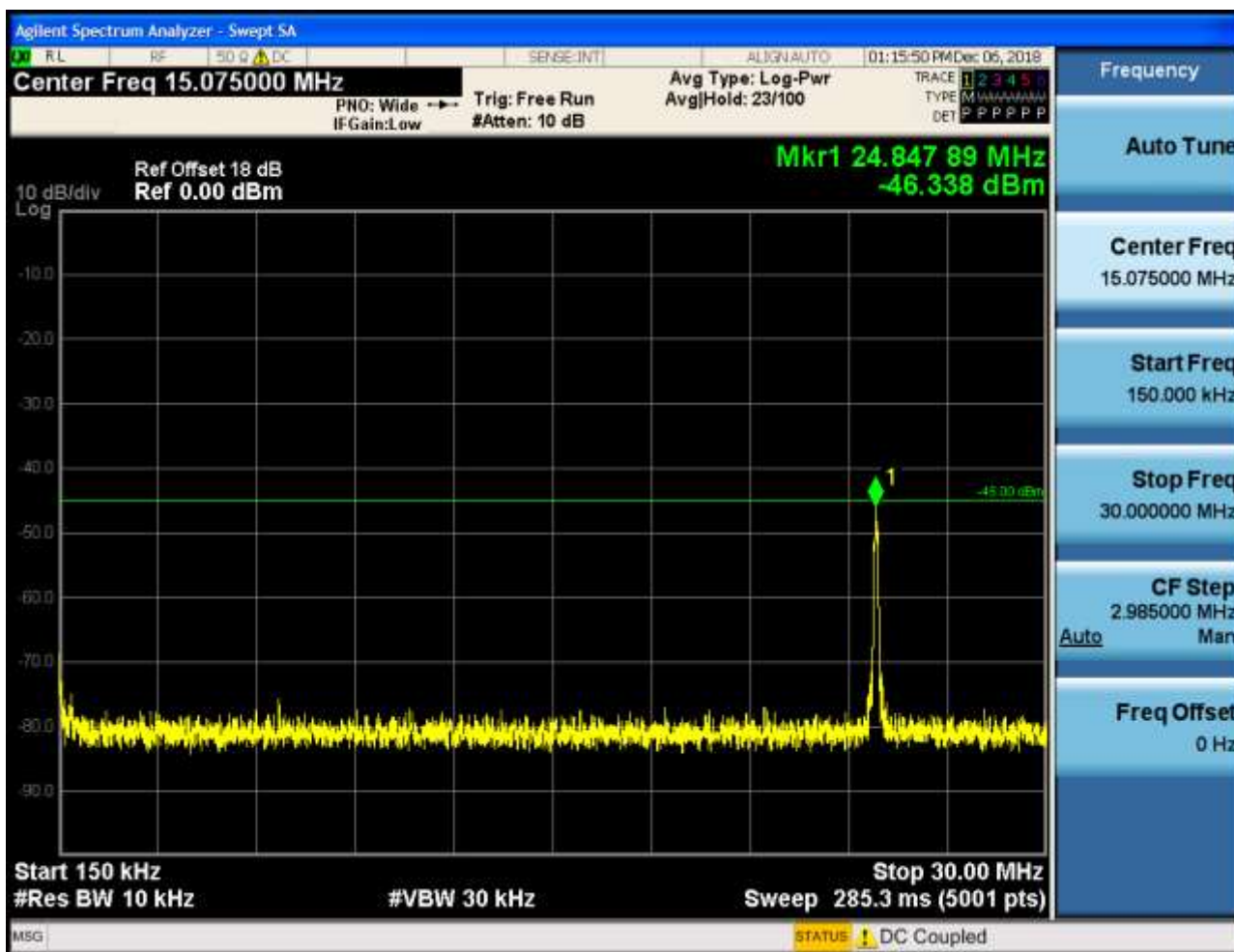




6.2.1.1.4.2 Test Channel = MCH

6.2.1.1.4.2.1 Test RB = RB1#0







6.2.1.1.4.3 Test Channel = HCH

6.2.1.1.4.3.1 Test RB = RB1#0







6.2.1.2 Test Mode = LTE/TM2

6.2.1.2.1 Test Bandwidth = 5

6.2.1.2.1.1 Test Channel = LCH

6.2.1.2.1.1.1 Test RB = RB1#0



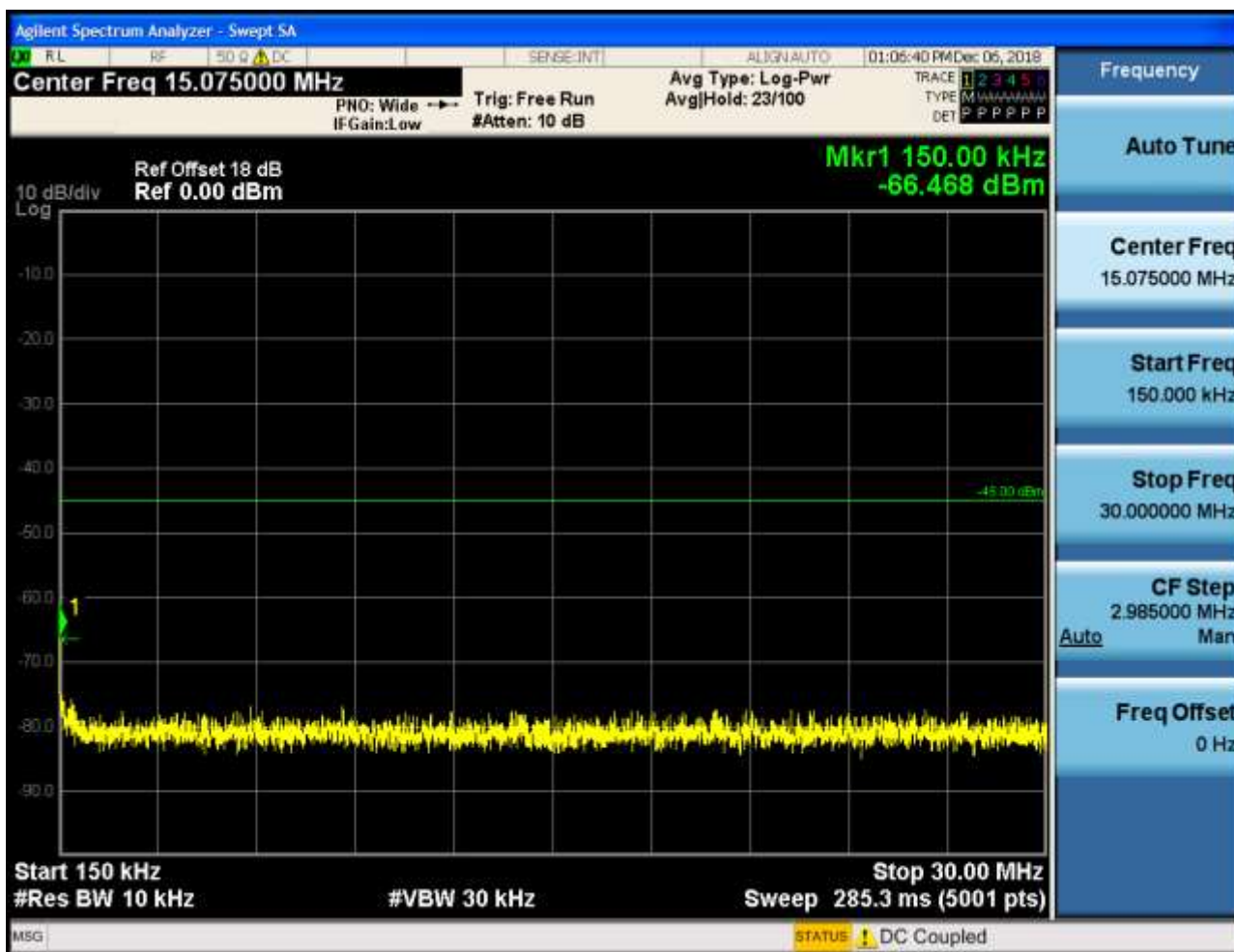




6.2.1.2.1.2 Test Channel = MCH

6.2.1.2.1.2.1 Test RB = RB1#0



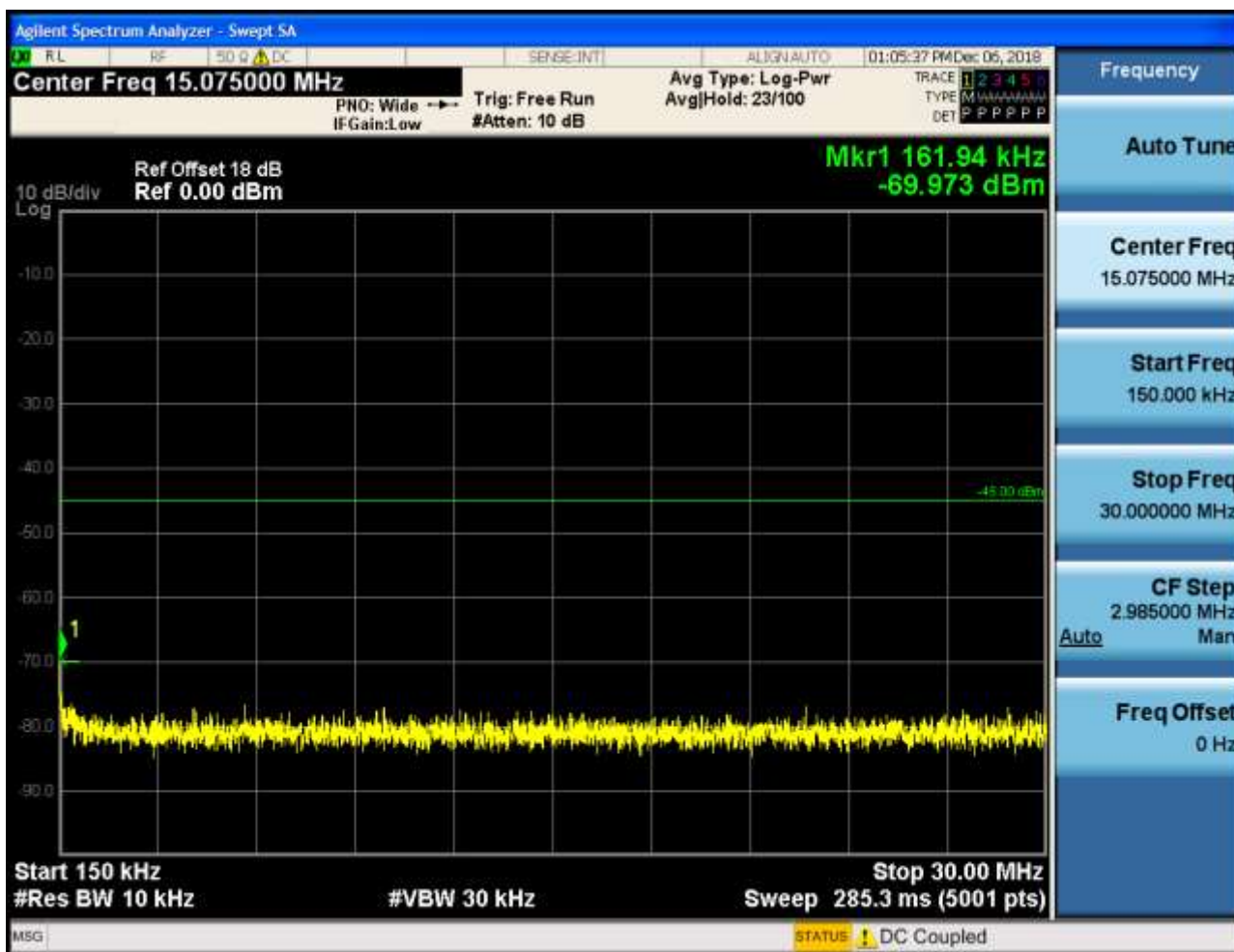




6.2.1.2.1.3 Test Channel = HCH

6.2.1.2.1.3.1 Test RB = RB1#0





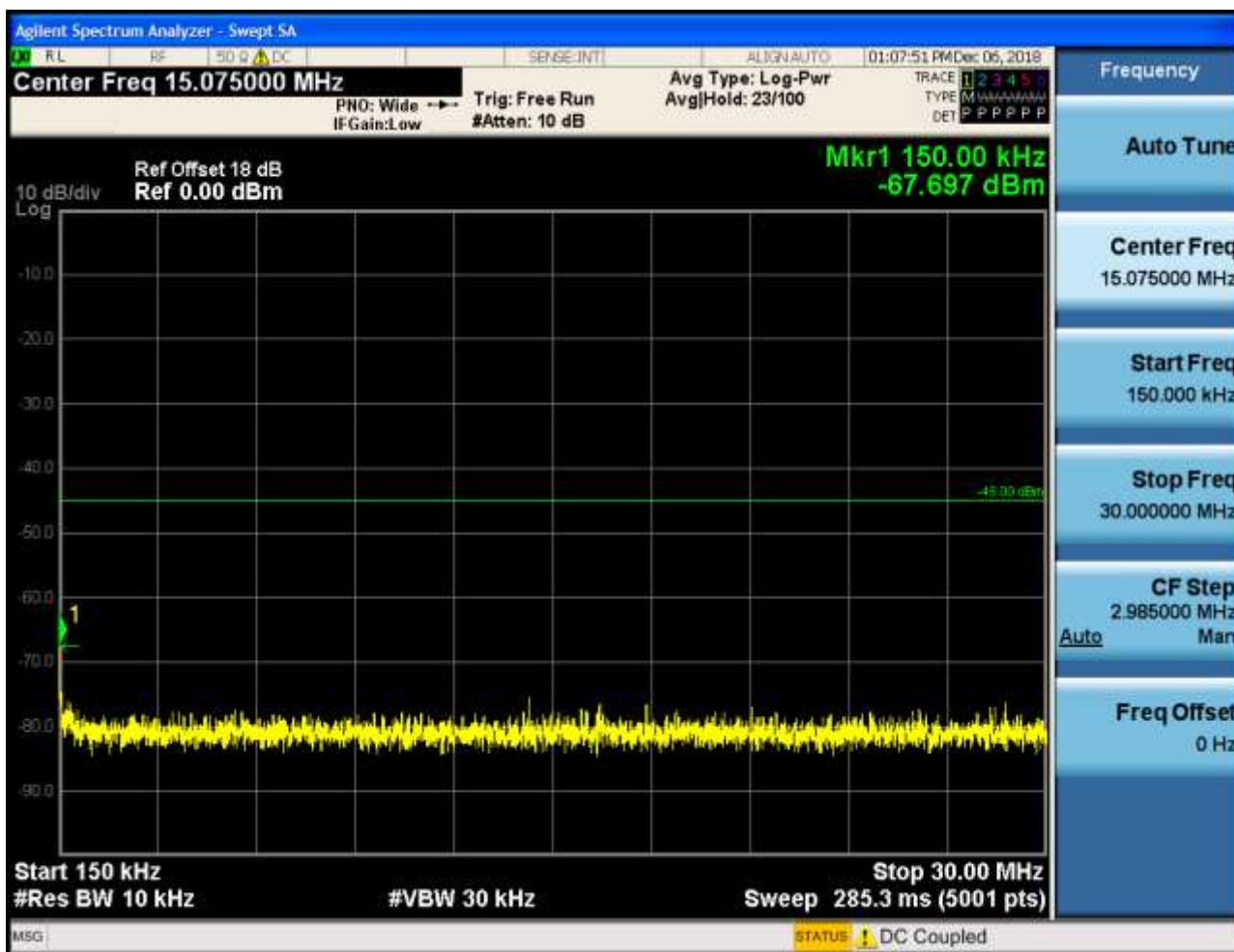


6.2.1.2.2 Test Bandwidth = 10

6.2.1.2.2.1 Test Channel = LCH

6.2.1.2.2.1.1 Test RB = RB1#0



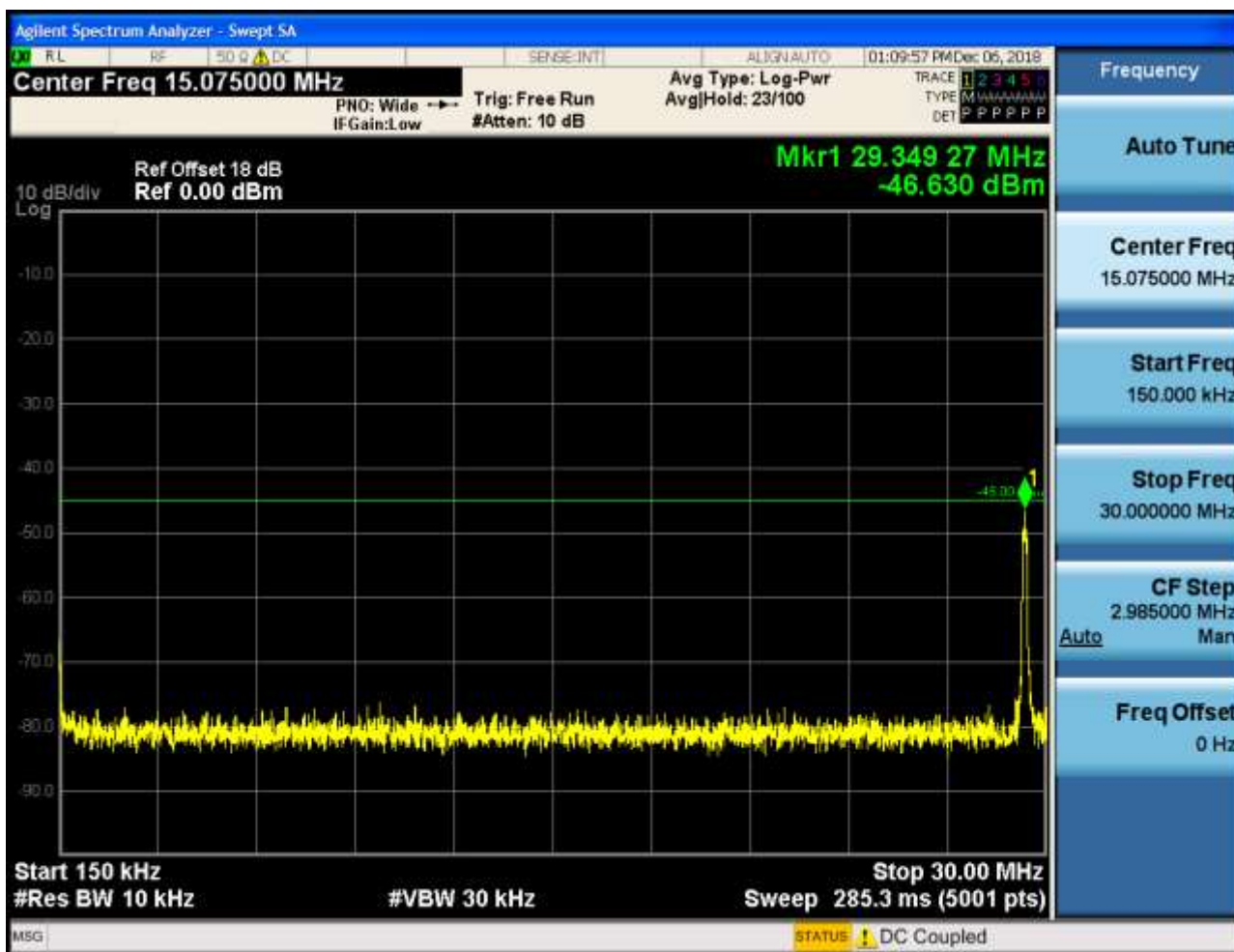




6.2.1.2.2.2 Test Channel = MCH

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





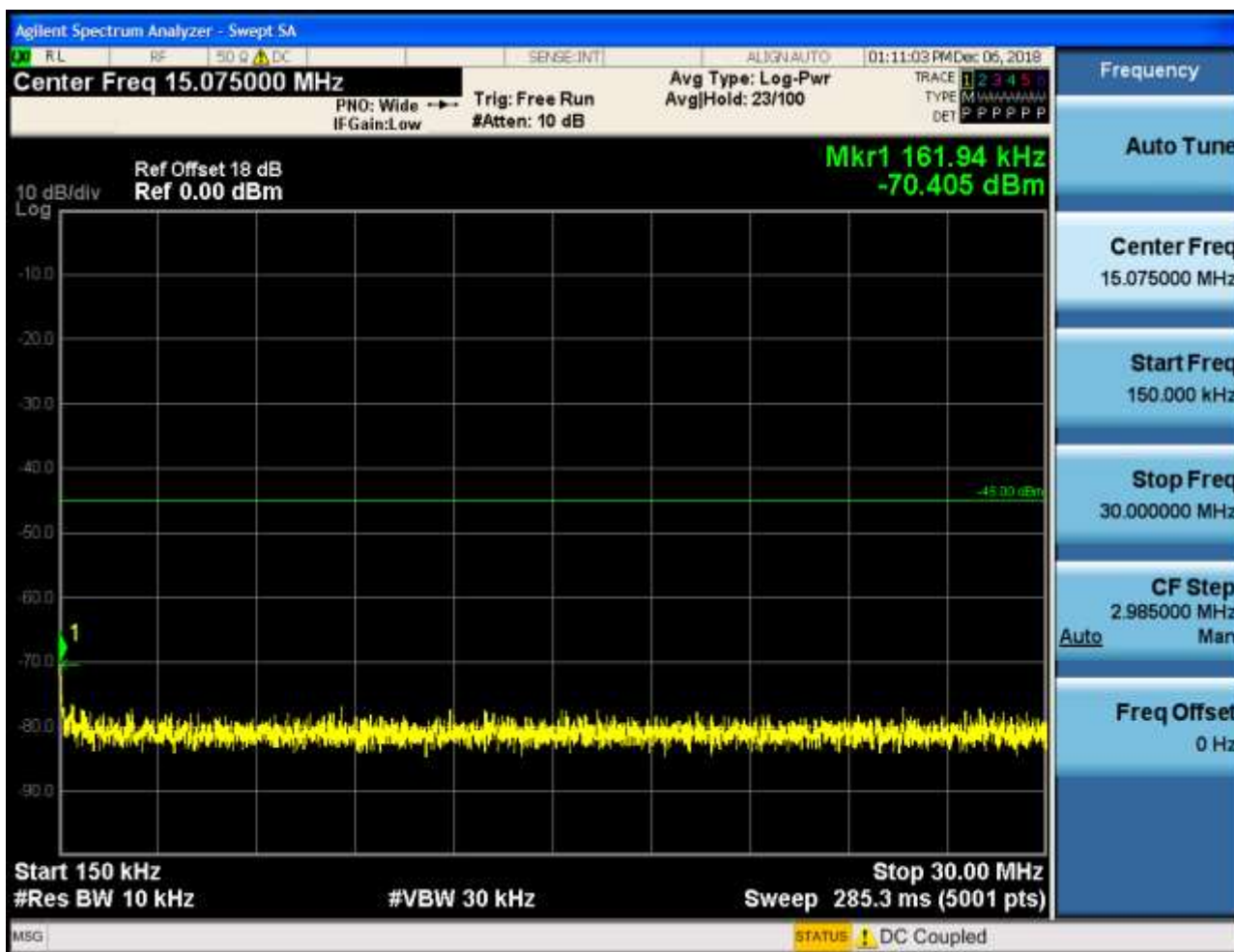


6.2.1.2.3 Test Bandwidth = 15

6.2.1.2.3.1 Test Channel = LCH

6.2.1.2.3.1.1 Test RB = RB1#0



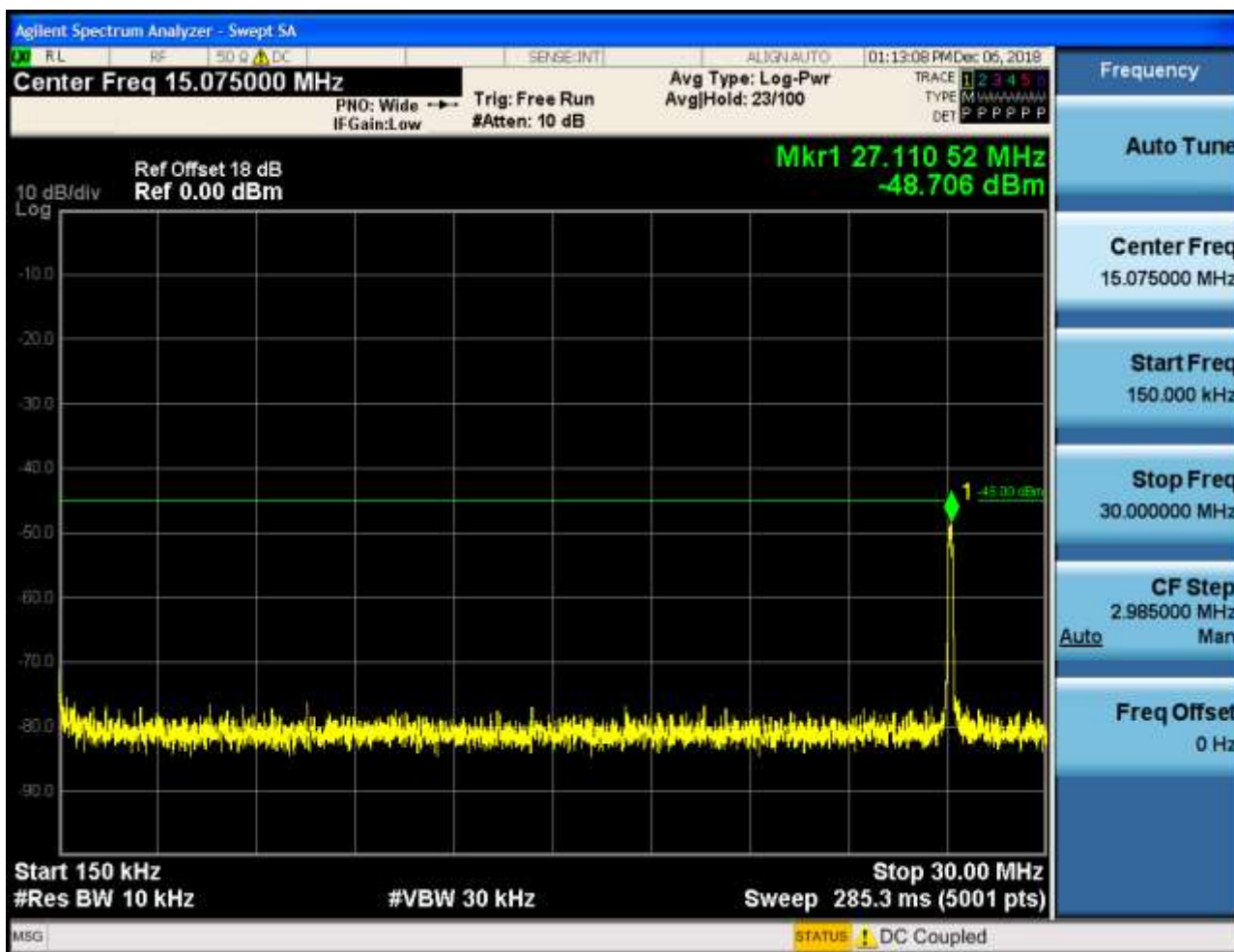




6.2.1.2.3.2 Test Channel = MCH

6.2.1.2.3.2.1 Test RB = RB1#0



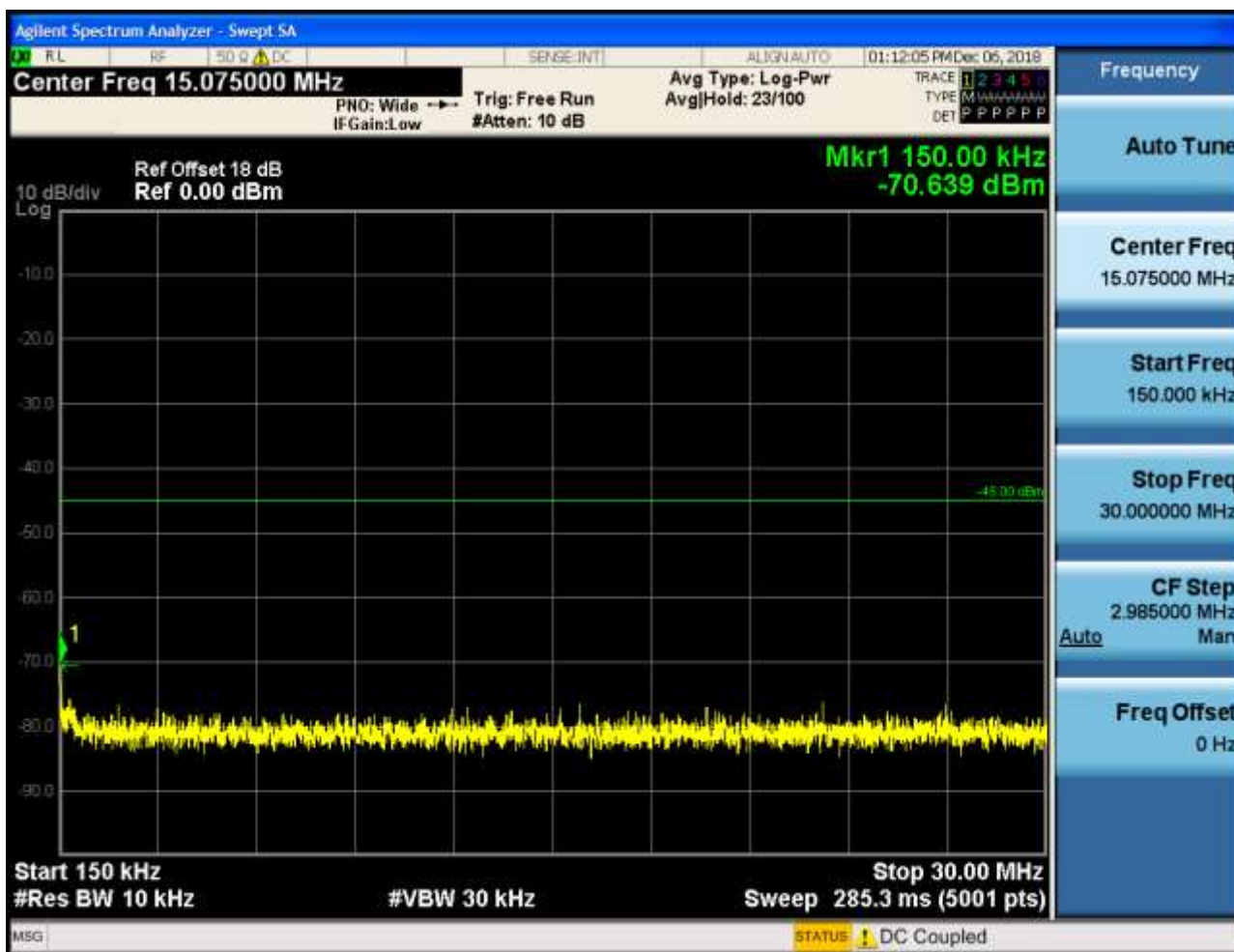




6.2.1.2.3.3 Test Channel = HCH

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



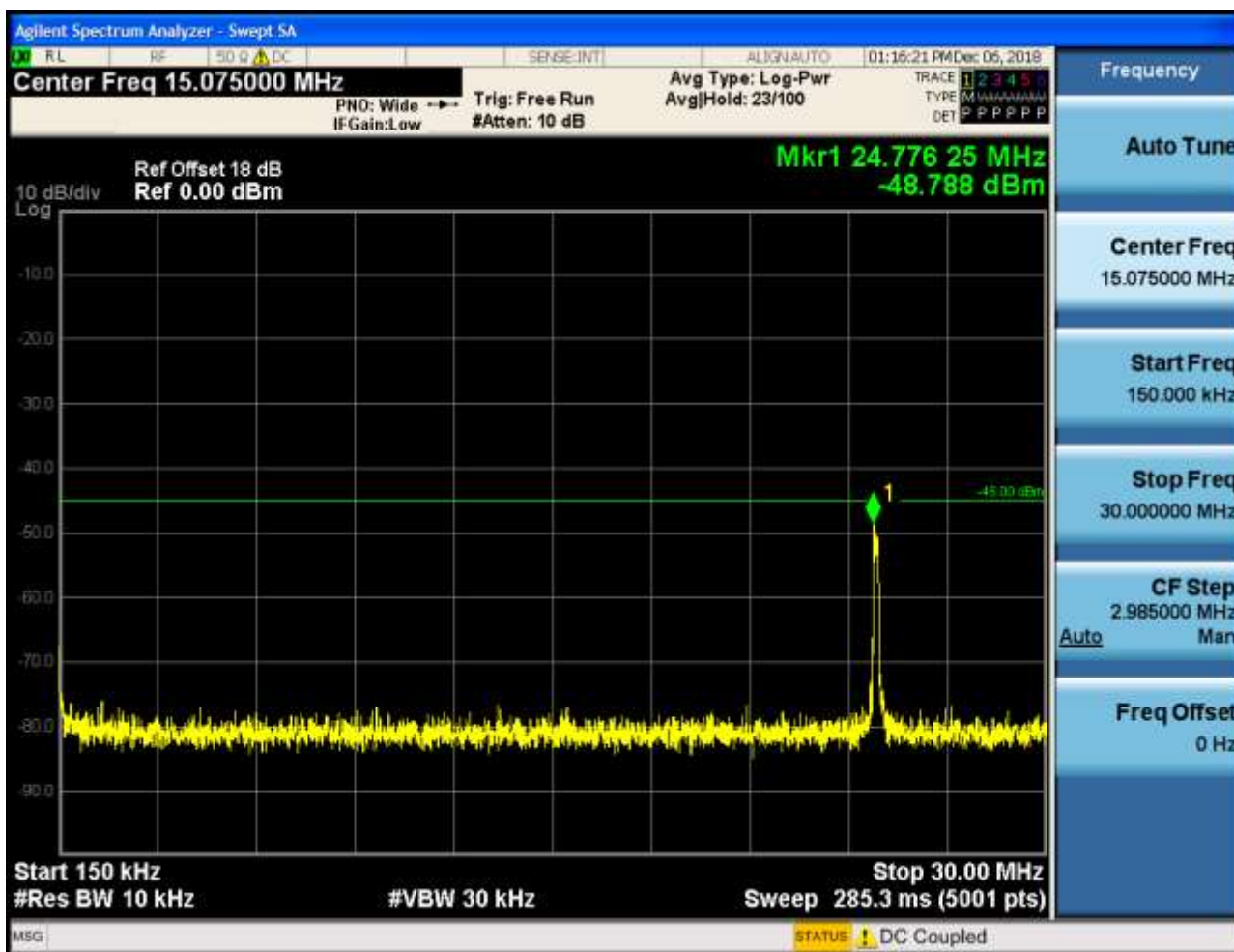




6.2.1.2.4.2 Test Channel = MCH

6.2.1.2.4.2.1 Test RB = RB1#0



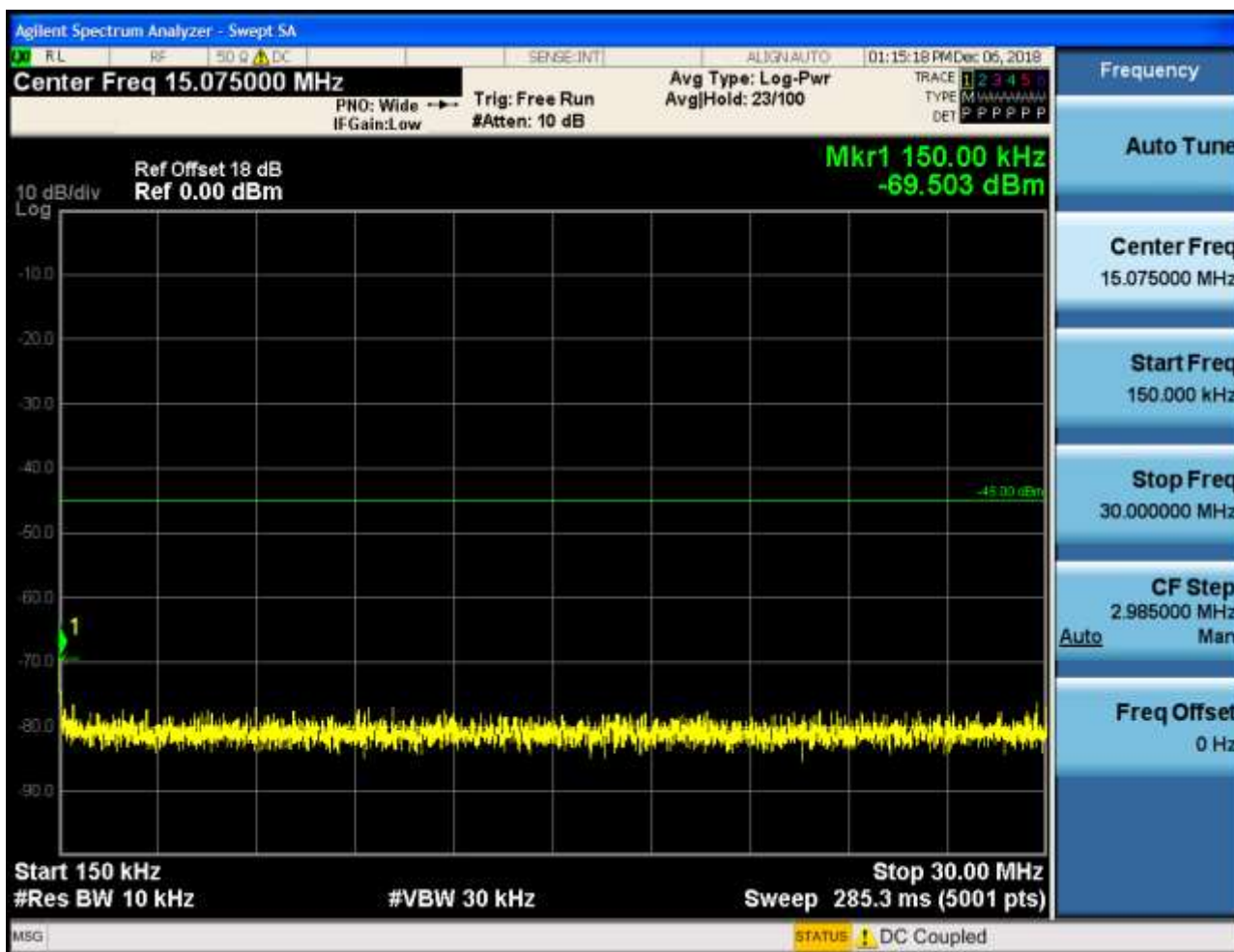




6.2.1.2.4.3 Test Channel = HCH

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

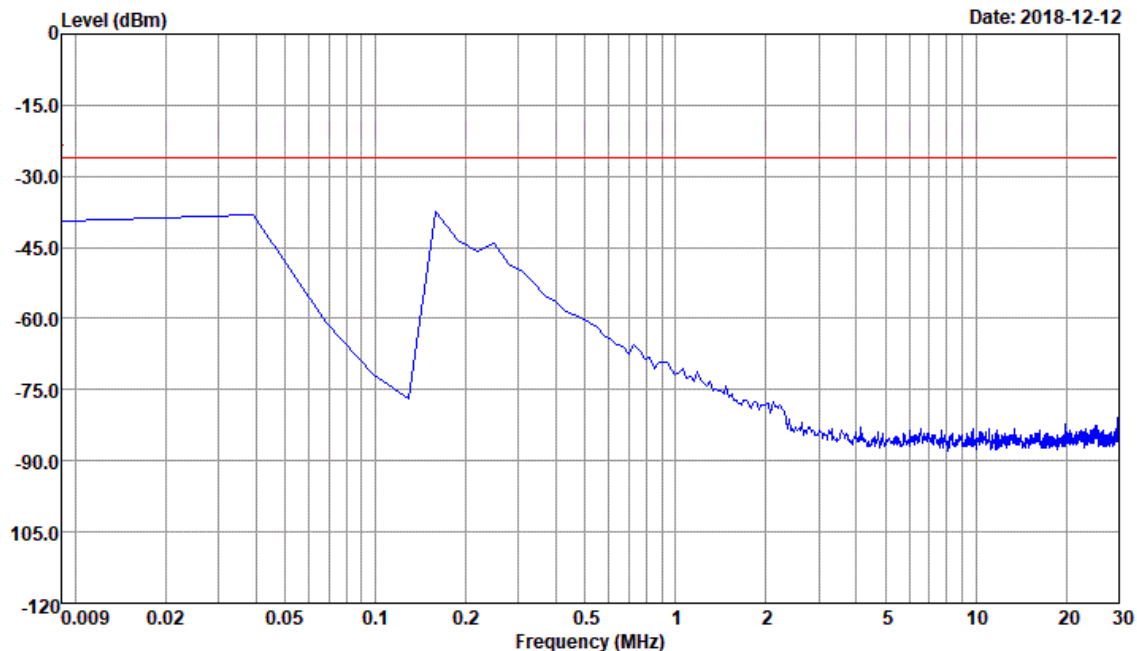
7.1.1 Test Band = Band41_ANT1

7.1.1.1 Test Bandwidth = 5



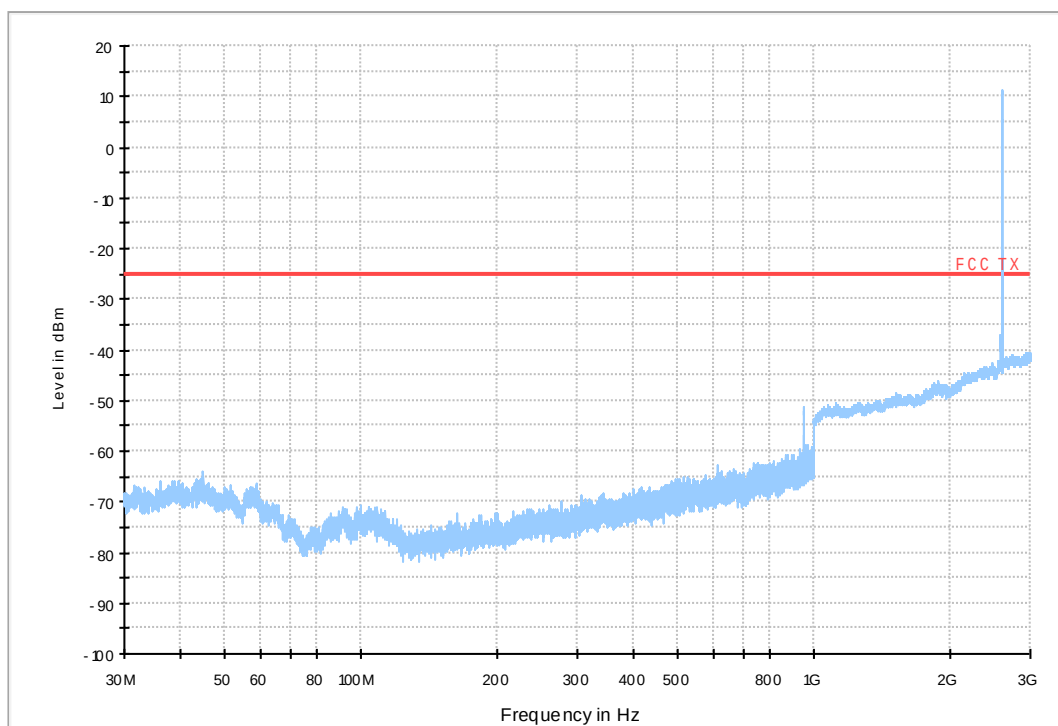
Data: 78

Date: 2018-12-12

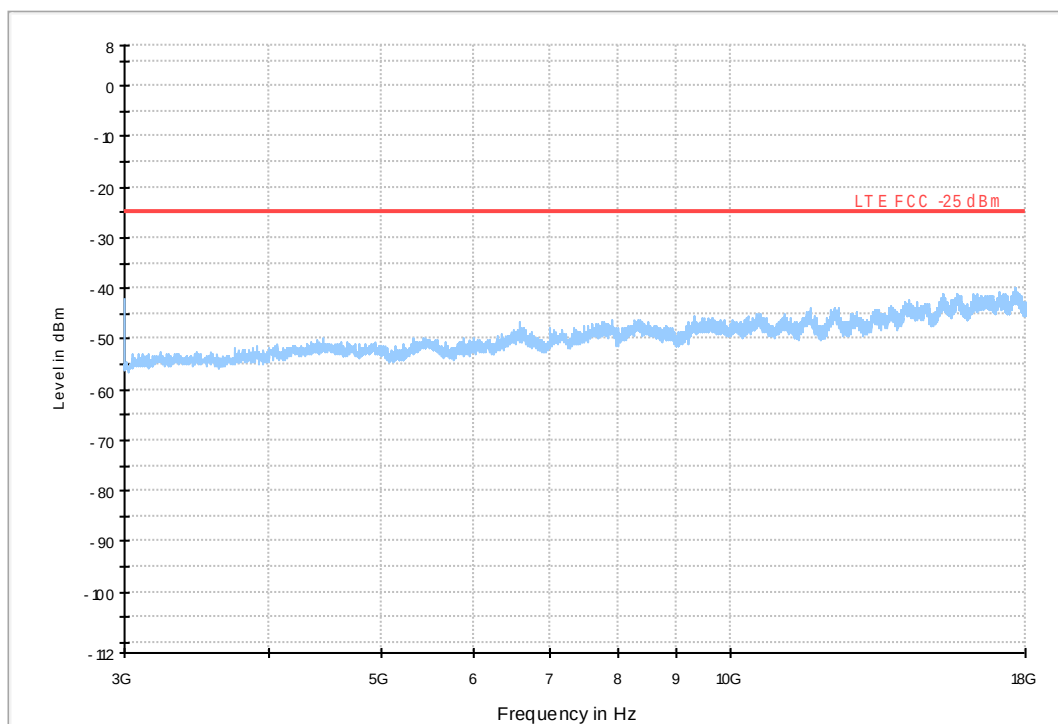


Site : 03CH01-SZ
Condition : -13DBM
: RBW:9.000KHz VBW:30.000KHz

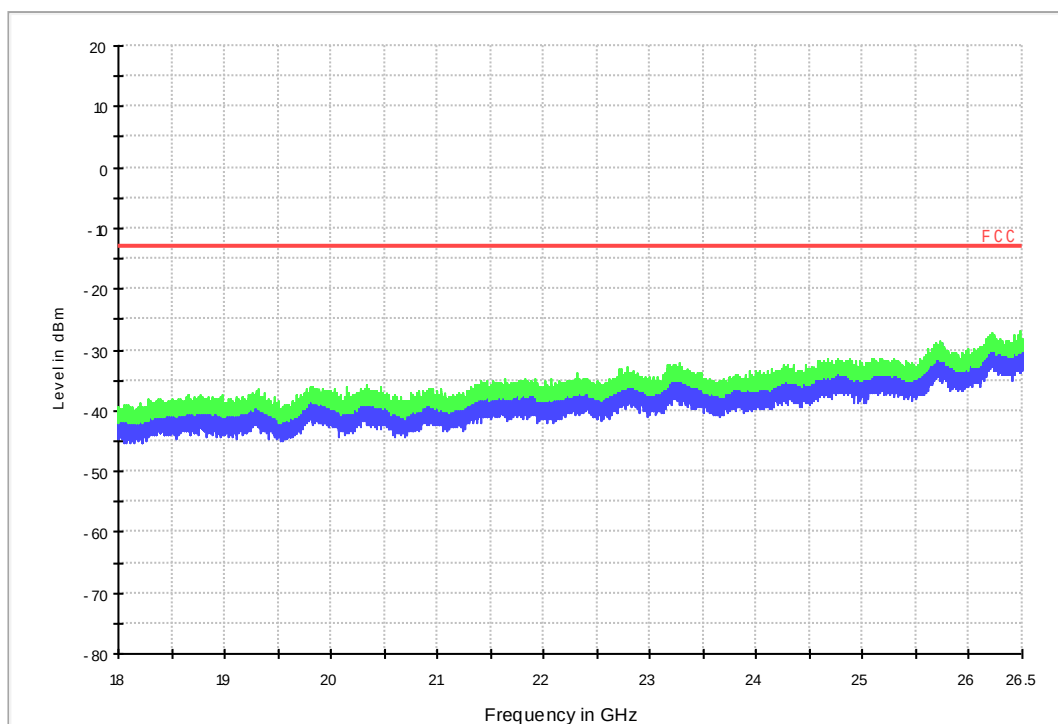
LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



18G~26.5G R SE-T X-DIRECTOR ABOVE 1.5G PK

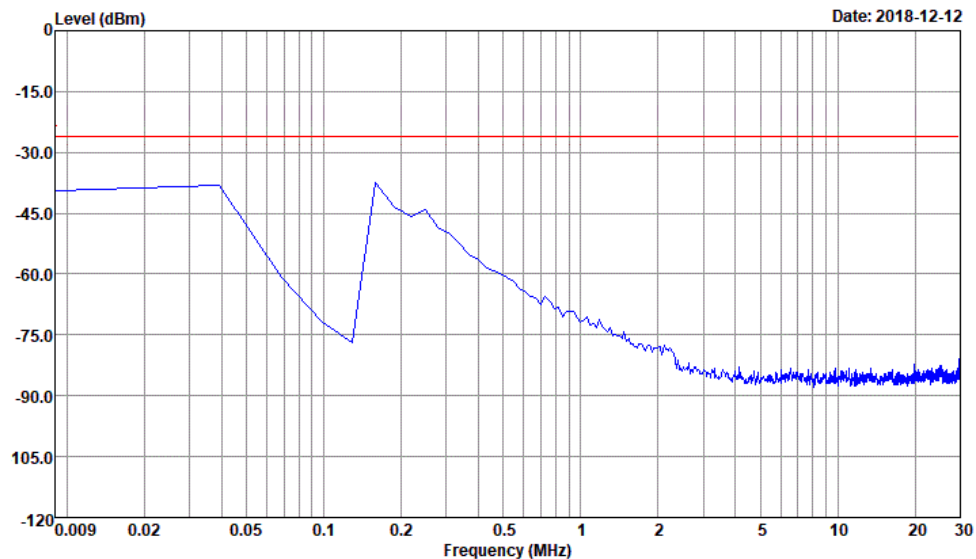


7.1.1.2 Test Bandwidth = 20



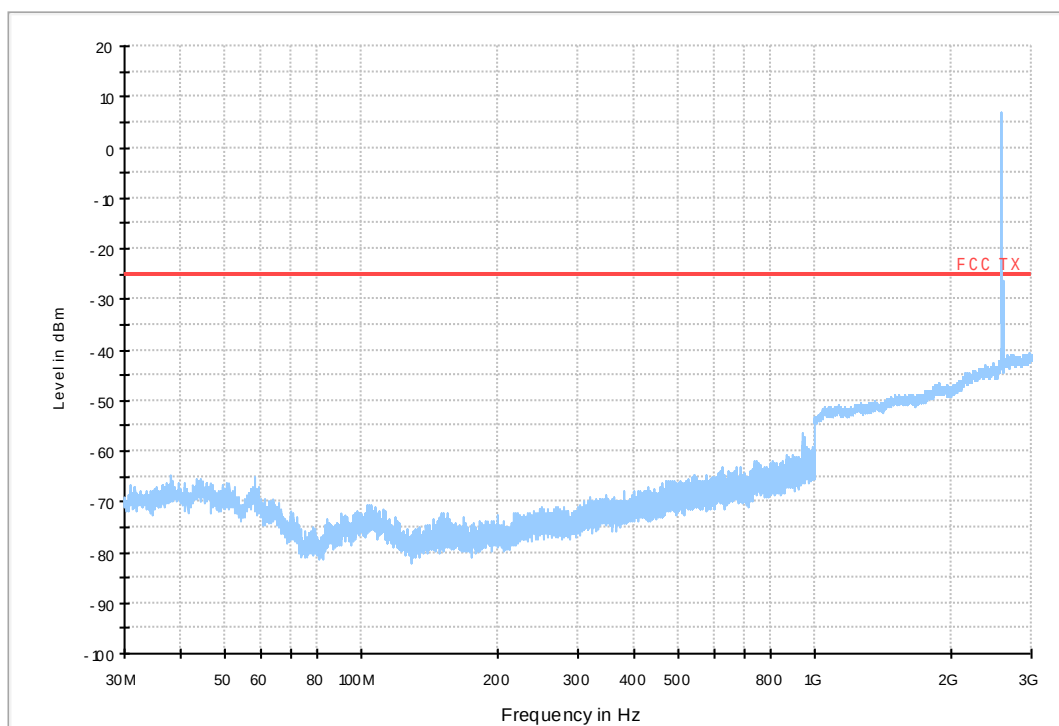
Data: 78

Date: 2018-12-12

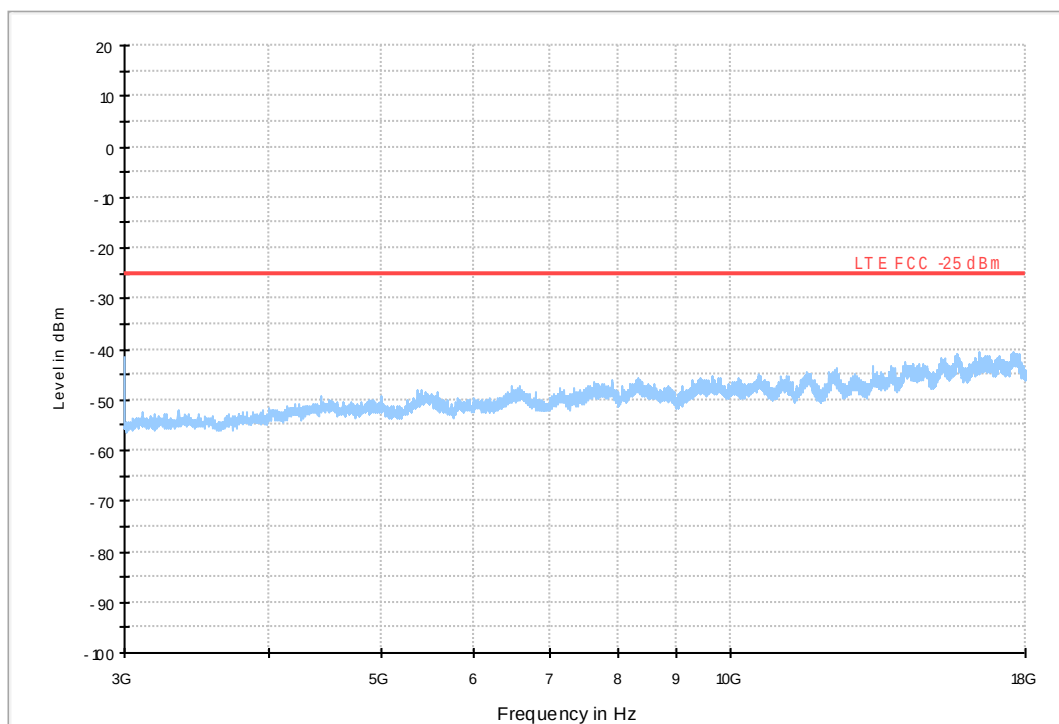


Site : 03CH01-SZ
 Condition : -13DBM
 : RBW:9.000KHz VBW:30.000KHz

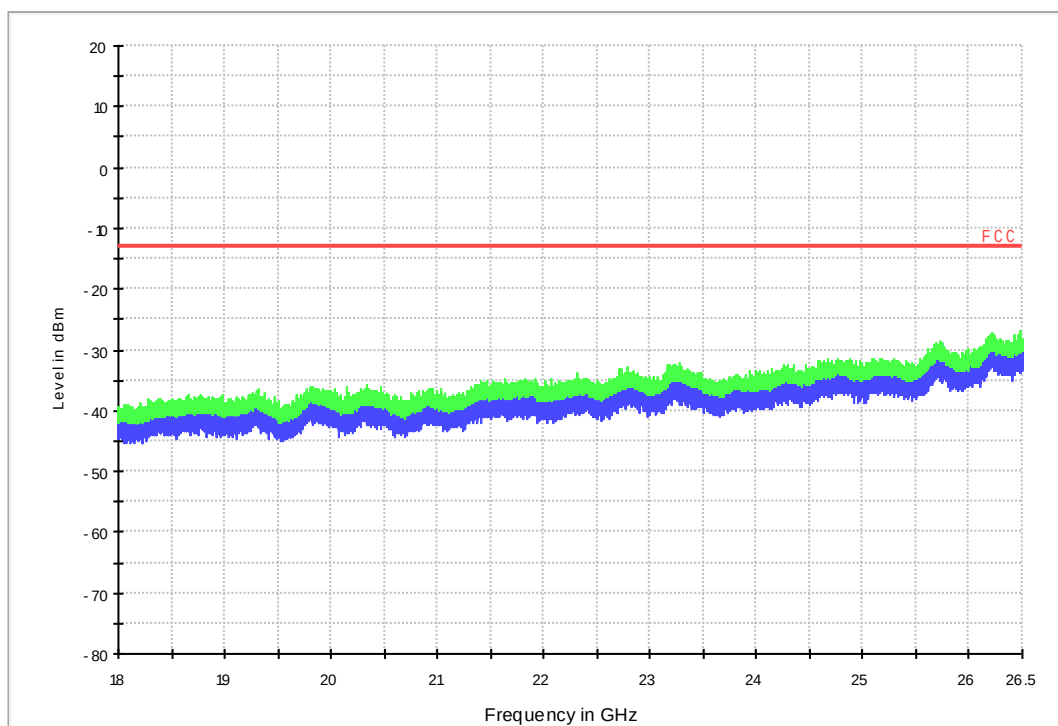
LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



18G~26.5G R SE-T X-DIRECTOR ABOVE 1.5G PK



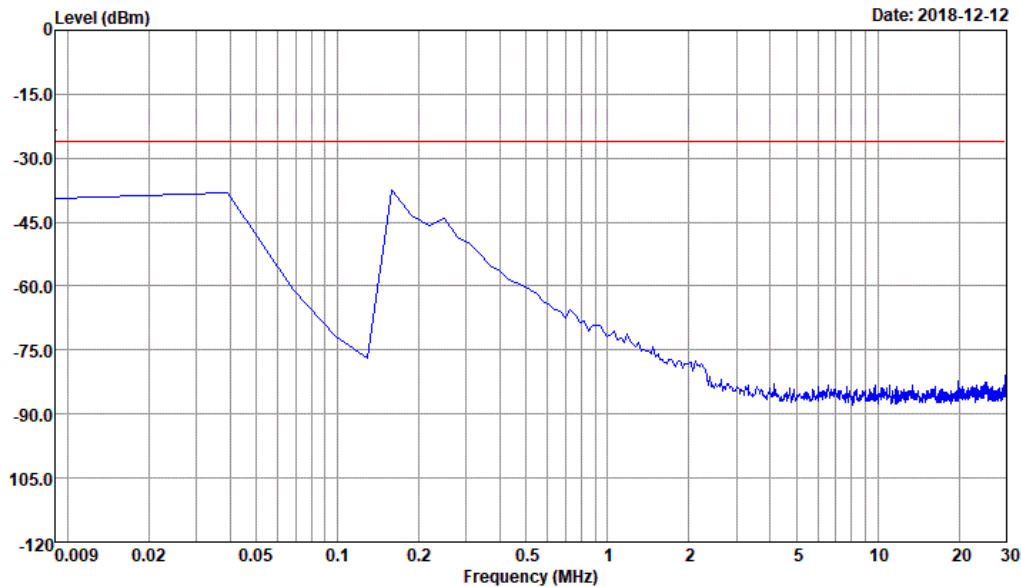
7.1.2 Test Band = Band41_ANT2

7.1.2.1 Test Bandwidth = 5



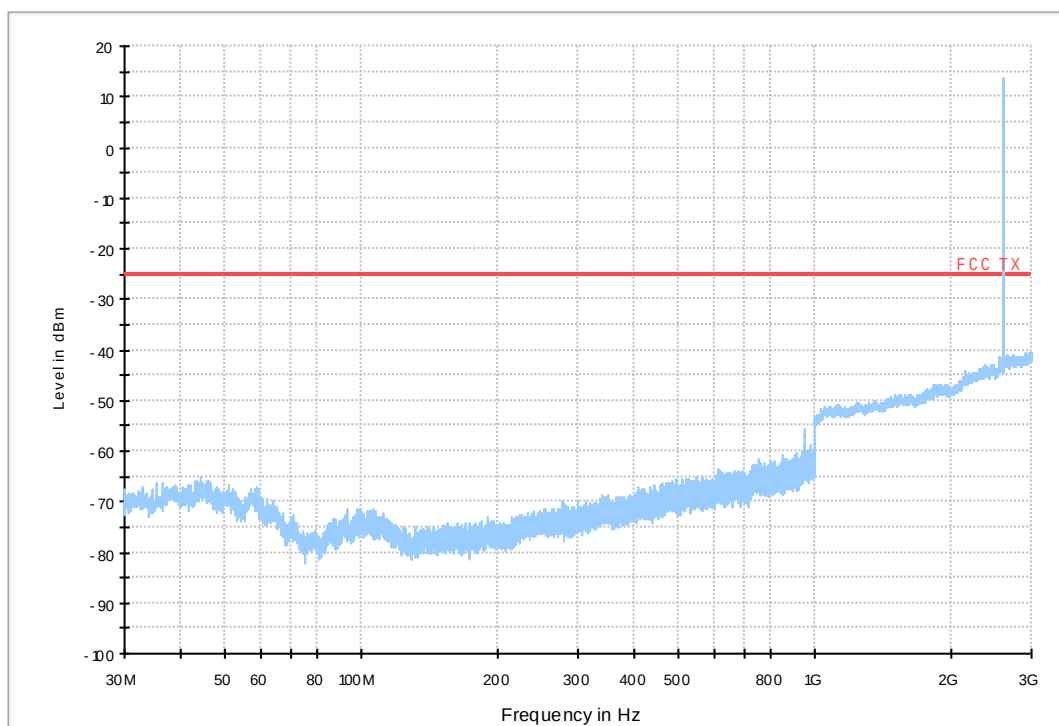
Data: 78

Date: 2018-12-12

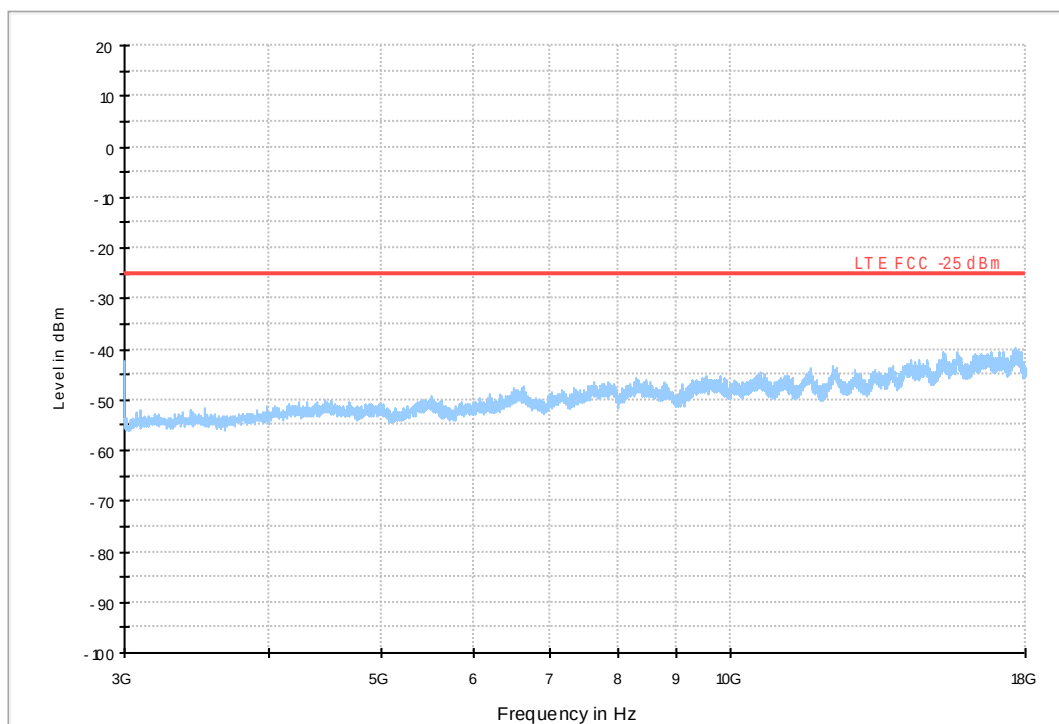


Site : 03CH01-SZ
Condition : -13DBM
: RBW:9.000KHz VBW:30.000KHz

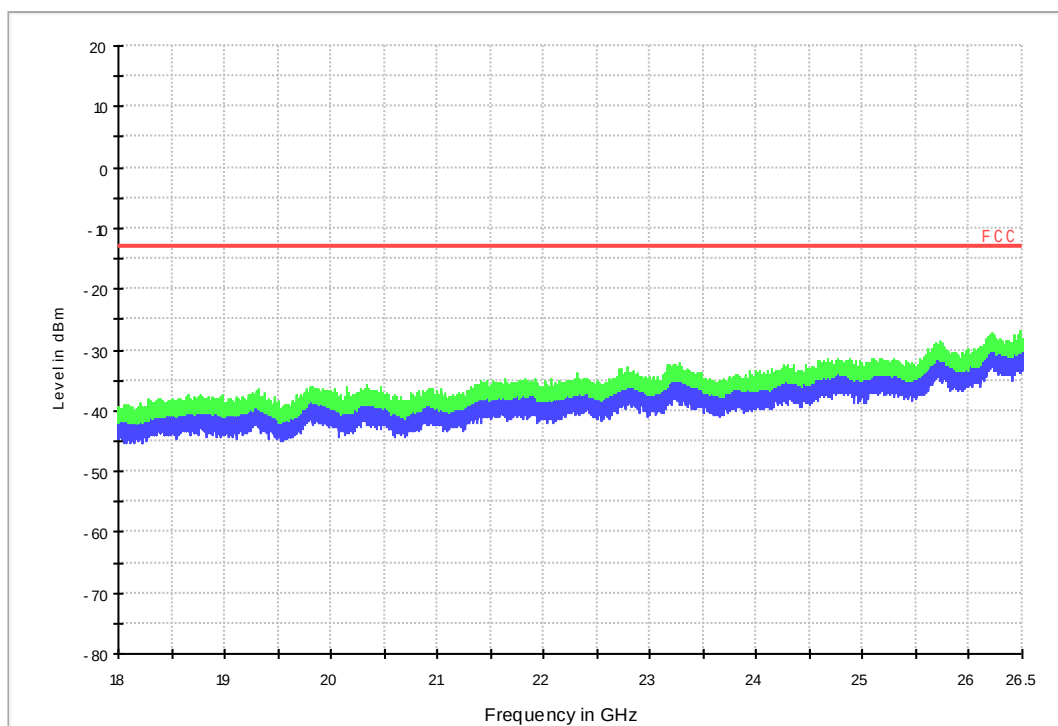
LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



18G~26.5G R SE-T X-DIRECTOR ABOVE 1.5G PK

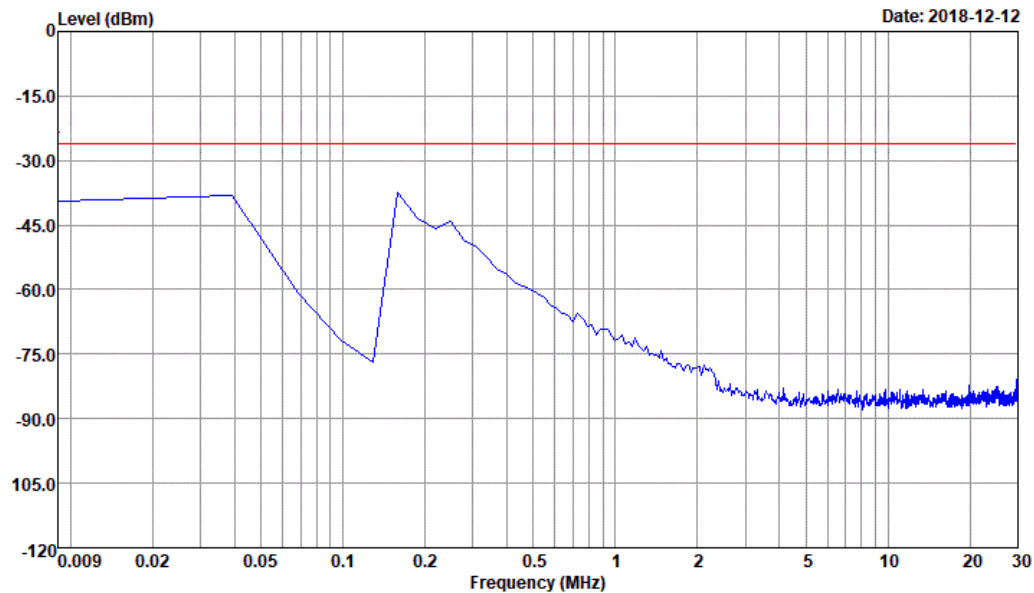


7.1.2.2 Test Bandwidth = 20



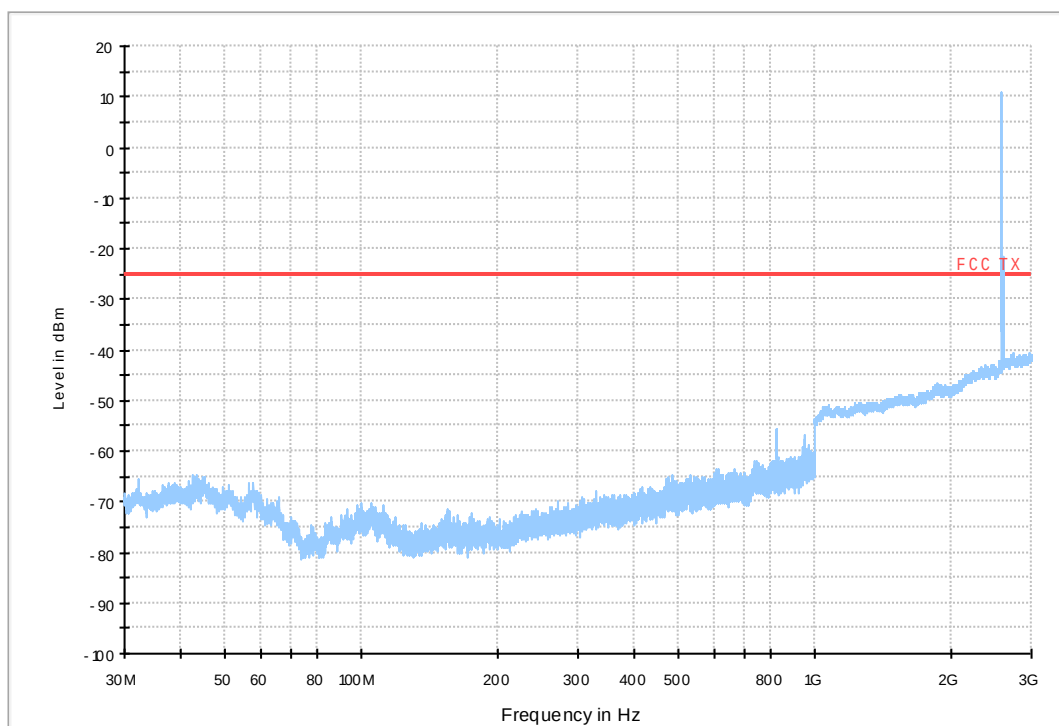
Data: 78

Date: 2018-12-12

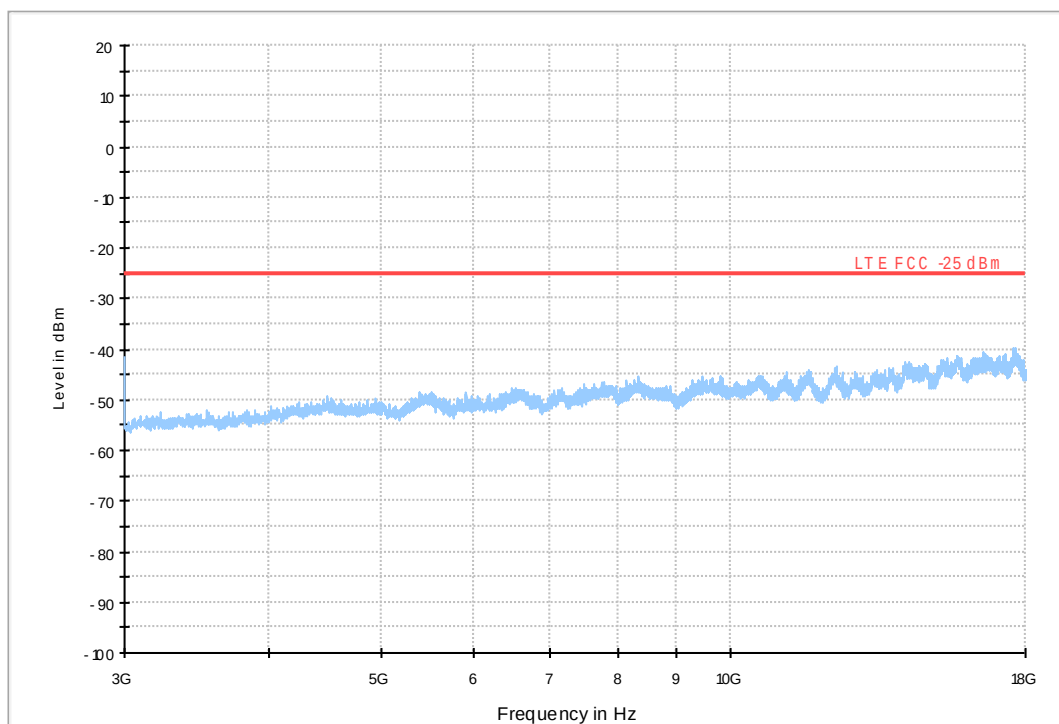


Site : 03CH01-SZ
Condition : -13DBM
: RBW:9.000KHz VBW:30.000KHz

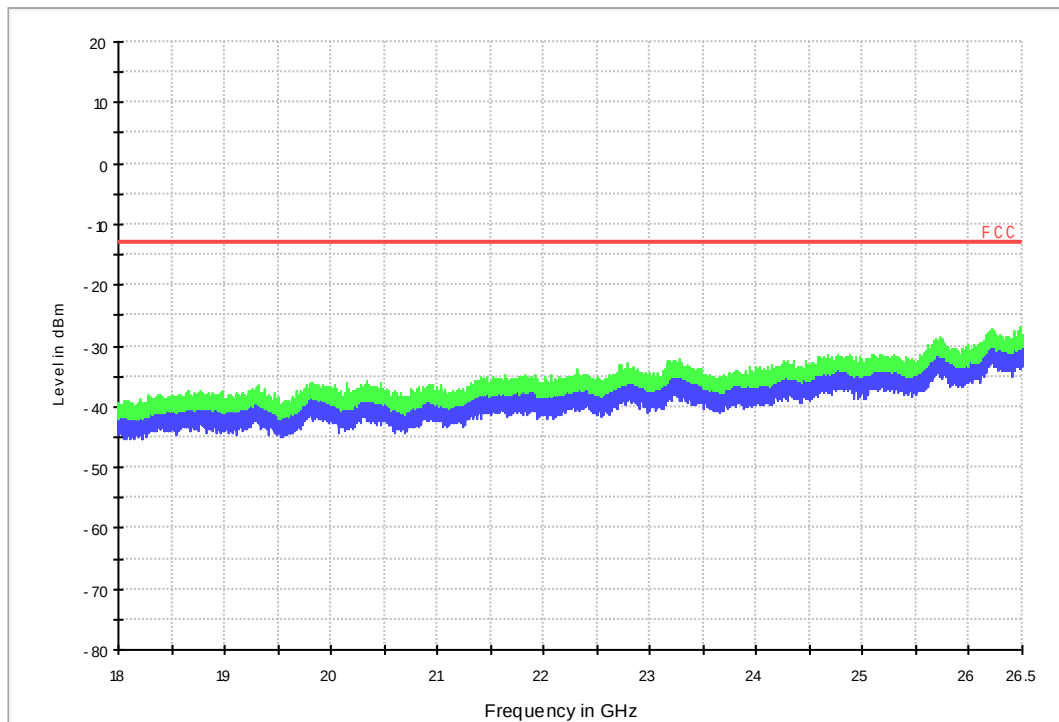
LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



18G~26.5G R SE-T X-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
Band41	LTE/TM1	5	LCH	TN	VL	-79.97990	-0.03152	PASS
					VN	-19.79828	-0.00780	PASS
					VH	-14.20498	-0.00560	PASS
			MCH	TN	VL	-57.62100	-0.02220	PASS
					VN	-23.40317	-0.00902	PASS
					VH	-60.32467	-0.02325	PASS
			HCH	TN	VL	-60.56786	-0.02283	PASS
					VN	-70.02354	-0.02640	PASS
					VH	-67.96360	-0.02562	PASS
		10	LCH	TN	VL	-42.91534	-0.01690	PASS
					VN	-18.79692	-0.00740	PASS
					VH	-32.44400	-0.01277	PASS
			MCH	TN	VL	-19.08302	-0.00735	PASS
					VN	-55.38940	-0.02134	PASS
					VH	-20.42770	-0.00787	PASS
			HCH	TN	VL	-22.25876	-0.00840	PASS
					VN	-48.02227	-0.01812	PASS
					VH	-23.34595	-0.00881	PASS
		15	LCH	TN	VL	-12.73155	-0.00501	PASS
					VN	-14.77718	-0.00581	PASS
					VH	-14.94884	-0.00588	PASS
			MCH	TN	VL	-19.82689	-0.00764	PASS
					VN	-21.51489	-0.00829	PASS
					VH	-33.96034	-0.01309	PASS
			HCH	TN	VL	-31.31390	-0.01183	PASS
					VN	-20.79964	-0.00786	PASS
					VH	-32.28664	-0.01220	PASS
		20	LCH	TN	VL	-14.71996	-0.00578	PASS
					VN	-12.77447	-0.00502	PASS
					VH	-13.18932	-0.00518	PASS
			MCH	TN	VL	-18.38207	-0.00708	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					VN	-17.98153	-0.00693	PASS	
					VH	-17.91000	-0.00690	PASS	
			HCH	TN	VL	-20.98560	-0.00793	PASS	
					VN	-19.25468	-0.00728	PASS	
					VH	-20.41340	-0.00772	PASS	
		LTE/TM2	5	LCH	TN	VL	-51.31245	-0.02022	PASS
						VN	-61.12576	-0.02409	PASS
						VH	-63.09986	-0.02487	PASS
				MCH	TN	VL	-71.25378	-0.02746	PASS
	VN					-24.36161	-0.00939	PASS	
	VH					-18.91136	-0.00729	PASS	
	HCH			TN	VL	-76.67542	-0.02891	PASS	
					VN	-37.25052	-0.01404	PASS	
					VH	-76.20335	-0.02873	PASS	
	10			LCH	TN	VL	-48.78044	-0.01920	PASS
						VN	-20.71381	-0.00816	PASS
						VH	-54.96025	-0.02164	PASS
				MCH	TN	VL	-18.62526	-0.00718	PASS
			VN			-17.62390	-0.00679	PASS	
			VH			-34.89017	-0.01345	PASS	
	HCH		TN	VL	-20.37048	-0.00769	PASS		
				VN	-23.81802	-0.00899	PASS		
				VH	-19.42635	-0.00733	PASS		
	15		LCH	TN	VL	-10.11372	-0.00398	PASS	
		VN			-15.40661	-0.00606	PASS		
		VH			-14.30511	-0.00563	PASS		
		MCH	TN	VL	-25.21992	-0.00972	PASS		
				VN	-21.41476	-0.00825	PASS		
				VH	-21.30032	-0.00821	PASS		
		HCH	TN	VL	-28.85342	-0.01090	PASS		
				VN	-21.70086	-0.00820	PASS		
				VH	-32.71580	-0.01236	PASS		
	20	LCH	TN	VL	-14.24789	-0.00560	PASS		
				VN	-15.30647	-0.00601	PASS		
				VH	-15.85007	-0.00623	PASS		
		MCH	TN	VL	-19.89841	-0.00767	PASS		
				VN	-23.54622	-0.00907	PASS		
				VH	-15.64980	-0.00603	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VL	-18.35346	-0.00694	PASS
					VN	-19.21177	-0.00726	PASS
					VH	-18.26763	-0.00691	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
Band41	LTE/TM1	5	LCH	VN	-30	-70.06645	-0.02761	PASS
					-20	-72.44110	-0.02855	PASS
					-10	-73.37093	-0.02891	PASS
					0	-75.17338	-0.02962	PASS
					10	-60.28175	-0.02376	PASS
					20	-19.79828	-0.00780	PASS
					30	-66.23268	-0.02610	PASS
					40	-63.17139	-0.02490	PASS
					50	-71.18225	-0.02805	PASS
			MCH	VN	-30	-22.15862	-0.00854	PASS
					-20	-20.11299	-0.00775	PASS
					-10	-21.58642	-0.00832	PASS
					0	-19.08302	-0.00735	PASS
					10	-21.95835	-0.00846	PASS
					20	-23.40317	-0.00902	PASS
					30	-24.04690	-0.00927	PASS
					40	-21.55781	-0.00831	PASS
					50	-20.72811	-0.00799	PASS
			HCH	VN	-30	-74.55826	-0.02811	PASS
					-20	-69.52286	-0.02621	PASS
					-10	-93.81294	-0.03537	PASS
					0	-60.72521	-0.02289	PASS
					10	-53.12920	-0.02003	PASS
					20	-70.02354	-0.02640	PASS
					30	-65.46021	-0.02468	PASS
					40	-47.42146	-0.01788	PASS
					50	-29.28257	-0.01104	PASS
		10	LCH	VN	-30	-49.10946	-0.01933	PASS
					-20	-49.56722	-0.01951	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-43.35880	-0.01707	PASS
					0	-47.37854	-0.01865	PASS
					10	-17.63821	-0.00694	PASS
					20	-18.79692	-0.00740	PASS
					30	-45.11833	-0.01776	PASS
					40	-35.33363	-0.01391	PASS
					50	-15.23495	-0.00600	PASS
			MCH	VN	-30	-20.37048	-0.00785	PASS
					-20	-21.34323	-0.00822	PASS
					-10	-17.06600	-0.00658	PASS
					0	-15.77854	-0.00608	PASS
					10	-13.26084	-0.00511	PASS
					20	-55.38940	-0.02134	PASS
					30	-17.43793	-0.00672	PASS
					40	-18.59665	-0.00717	PASS
					50	-20.18452	-0.00778	PASS
			HCH	VN	-30	-22.25876	-0.00840	PASS
					-20	-21.78669	-0.00822	PASS
					-10	-24.53327	-0.00926	PASS
					0	-19.94133	-0.00753	PASS
					10	-22.05849	-0.00832	PASS
					20	-48.02227	-0.01812	PASS
					30	-20.48492	-0.00773	PASS
					40	-25.00534	-0.00944	PASS
					50	-22.70222	-0.00857	PASS
		15	LCH	VN	-30	-14.76288	-0.00581	PASS
					-20	-26.26419	-0.01033	PASS
					-10	-10.18524	-0.00401	PASS
					0	-12.77447	-0.00502	PASS
					10	-17.20905	-0.00677	PASS
					20	-14.77718	-0.00581	PASS
					30	-23.03123	-0.00906	PASS
					40	-12.74586	-0.00501	PASS
					50	-14.44817	-0.00568	PASS
			MCH	VN	-30	-18.93997	-0.00730	PASS
					-20	-21.17157	-0.00816	PASS
					-10	-33.88882	-0.01306	PASS
					0	-18.33916	-0.00707	PASS
					10	-16.83712	-0.00649	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-21.51489	-0.00829	PASS
					30	-21.52920	-0.00830	PASS
					40	-16.83712	-0.00649	PASS
					50	-19.29760	-0.00744	PASS
			HCH	VN	-30	-21.51489	-0.00813	PASS
					-20	-19.62662	-0.00741	PASS
					-10	-20.79964	-0.00786	PASS
					0	-20.54214	-0.00776	PASS
					10	-20.02716	-0.00756	PASS
					20	-20.79964	-0.00786	PASS
					30	-42.08565	-0.01590	PASS
					40	-20.59937	-0.00778	PASS
					50	-20.79964	-0.00786	PASS
		20	LCH	VN	-30	-15.12051	-0.00594	PASS
					-20	-11.87325	-0.00467	PASS
					-10	-14.74857	-0.00580	PASS
					0	-13.79013	-0.00542	PASS
					10	-15.72132	-0.00618	PASS
					20	-12.77447	-0.00502	PASS
					30	-15.44952	-0.00607	PASS
					40	-12.53128	-0.00492	PASS
					50	-23.10276	-0.00908	PASS
			MCH	VN	-30	-16.65115	-0.00642	PASS
					-20	-18.19611	-0.00701	PASS
					-10	-17.59529	-0.00678	PASS
					0	-20.71381	-0.00798	PASS
					10	-17.63821	-0.00680	PASS
					20	-17.98153	-0.00693	PASS
					30	-17.66682	-0.00681	PASS
					40	-18.48221	-0.00712	PASS
					50	-19.78397	-0.00762	PASS
			HCH	VN	-30	-20.11299	-0.00760	PASS
					-20	-17.38071	-0.00657	PASS
					-10	-20.75672	-0.00785	PASS
					0	-18.19611	-0.00688	PASS
					10	-20.67089	-0.00782	PASS
					20	-19.25468	-0.00728	PASS
					30	-20.12730	-0.00761	PASS
					40	-20.21313	-0.00764	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	5	LCH	VN	50	-23.26012	-0.00879	PASS
					-30	-73.74287	-0.02906	PASS
					-20	-56.44798	-0.02225	PASS
					-10	-70.36686	-0.02773	PASS
					0	-47.97935	-0.01891	PASS
					10	-84.68628	-0.03337	PASS
					20	-61.12576	-0.02409	PASS
					30	-55.14622	-0.02173	PASS
					40	-65.67478	-0.02588	PASS
					50	-68.02082	-0.02681	PASS
			MCH	VN	-30	-19.62662	-0.00756	PASS
					-20	-72.12639	-0.02779	PASS
					-10	-21.58642	-0.00832	PASS
					0	-19.14024	-0.00738	PASS
					10	-21.88683	-0.00843	PASS
					20	-24.36161	-0.00939	PASS
					30	-20.79964	-0.00802	PASS
					40	-20.77103	-0.00800	PASS
					50	-21.17157	-0.00816	PASS
			HCH	VN	-30	-60.33897	-0.02275	PASS
					-20	-51.08356	-0.01926	PASS
					-10	-49.92485	-0.01882	PASS
					0	-51.22662	-0.01931	PASS
					10	-65.76061	-0.02479	PASS
					20	-37.25052	-0.01404	PASS
					30	-56.63395	-0.02135	PASS
					40	-28.78189	-0.01085	PASS
					50	-77.94857	-0.02939	PASS
		10	LCH	VN	-30	-38.68103	-0.01523	PASS
					-20	-46.11969	-0.01816	PASS
					-10	-35.49099	-0.01397	PASS
					0	-46.60606	-0.01835	PASS
					10	-17.91000	-0.00705	PASS
					20	-20.71381	-0.00816	PASS
					30	-45.17555	-0.01779	PASS
					40	-49.30973	-0.01941	PASS
					50	-21.74377	-0.00856	PASS
			MCH	VN	-30	-18.73970	-0.00722	PASS
					-20	-20.71381	-0.00798	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-20.95699	-0.00808	PASS
					0	-20.12730	-0.00776	PASS
					10	-18.38207	-0.00708	PASS
					20	-17.62390	-0.00679	PASS
					30	-15.29217	-0.00589	PASS
					40	-19.68384	-0.00759	PASS
					50	-20.89977	-0.00805	PASS
			HCH	VN	-30	-23.96107	-0.00904	PASS
					-20	-22.07279	-0.00833	PASS
					-10	-28.16677	-0.01063	PASS
					0	-24.77646	-0.00935	PASS
					10	-21.57211	-0.00814	PASS
					20	-23.81802	-0.00899	PASS
					30	-21.75808	-0.00821	PASS
					40	-20.49923	-0.00774	PASS
					50	-23.78941	-0.00898	PASS
		15	LCH	VN	-30	-31.64291	-0.01245	PASS
					-20	-29.03938	-0.01142	PASS
					-10	-13.34667	-0.00525	PASS
					0	-14.46247	-0.00569	PASS
					10	-13.80444	-0.00543	PASS
					20	-15.40661	-0.00606	PASS
					30	-35.47668	-0.01395	PASS
					40	-13.14640	-0.00517	PASS
					50	-13.68999	-0.00538	PASS
			MCH	VN	-30	-18.82553	-0.00725	PASS
					-20	-21.92974	-21.92974	PASS
					-10	-20.69950	-0.00798	PASS
					0	-18.89706	-0.00728	PASS
					10	-31.51417	-0.01214	PASS
					20	-21.41476	-0.00825	PASS
					30	-21.34323	-0.00822	PASS
					40	-34.41811	-0.01326	PASS
					50	-24.99104	-0.00963	PASS
			HCH	VN	-30	-22.11571	-0.00835	PASS
					-20	-20.07008	-0.00758	PASS
					-10	-21.81530	-0.00824	PASS
					0	-21.27171	-0.00803	PASS
					10	-18.43929	-0.00696	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-21.70086	-0.00820	PASS
					30	-34.93309	-0.01319	PASS
					40	-19.94133	-0.00753	PASS
					50	-22.40181	-0.00846	PASS
		20	LCH	VN	-30	-16.32214	-0.00641	PASS
					-20	-16.93726	-0.00666	PASS
					-10	-15.33508	-0.00603	PASS
					0	-14.47678	-0.00569	PASS
					10	-15.53535	-0.00610	PASS
					20	-15.30647	-0.00601	PASS
					30	-15.79285	-0.00621	PASS
					40	-15.09190	-0.00593	PASS
					50	-22.07279	-0.00867	PASS
			MCH	VN	-30	-18.43929	-0.00711	PASS
					-20	-17.66682	-0.00681	PASS
					-10	-21.37184	-0.00824	PASS
					0	-16.45088	-0.00634	PASS
					10	-18.09597	-0.00697	PASS
					20	-23.54622	-0.00907	PASS
					30	-21.88683	-0.00843	PASS
					40	-21.35754	-0.00823	PASS
					50	-18.19611	-0.00701	PASS
			HCH	VN	-30	-19.39774	-0.00733	PASS
					-20	-20.08438	-0.00759	PASS
					-10	-21.35754	-0.00807	PASS
					0	-19.12594	-0.00723	PASS
					10	-20.65659	-0.00781	PASS
					20	-19.21177	-0.00726	PASS
					30	-19.26899	-0.00729	PASS
					40	-17.20905	-0.00651	PASS
					50	-22.88818	-0.00865	PASS

END