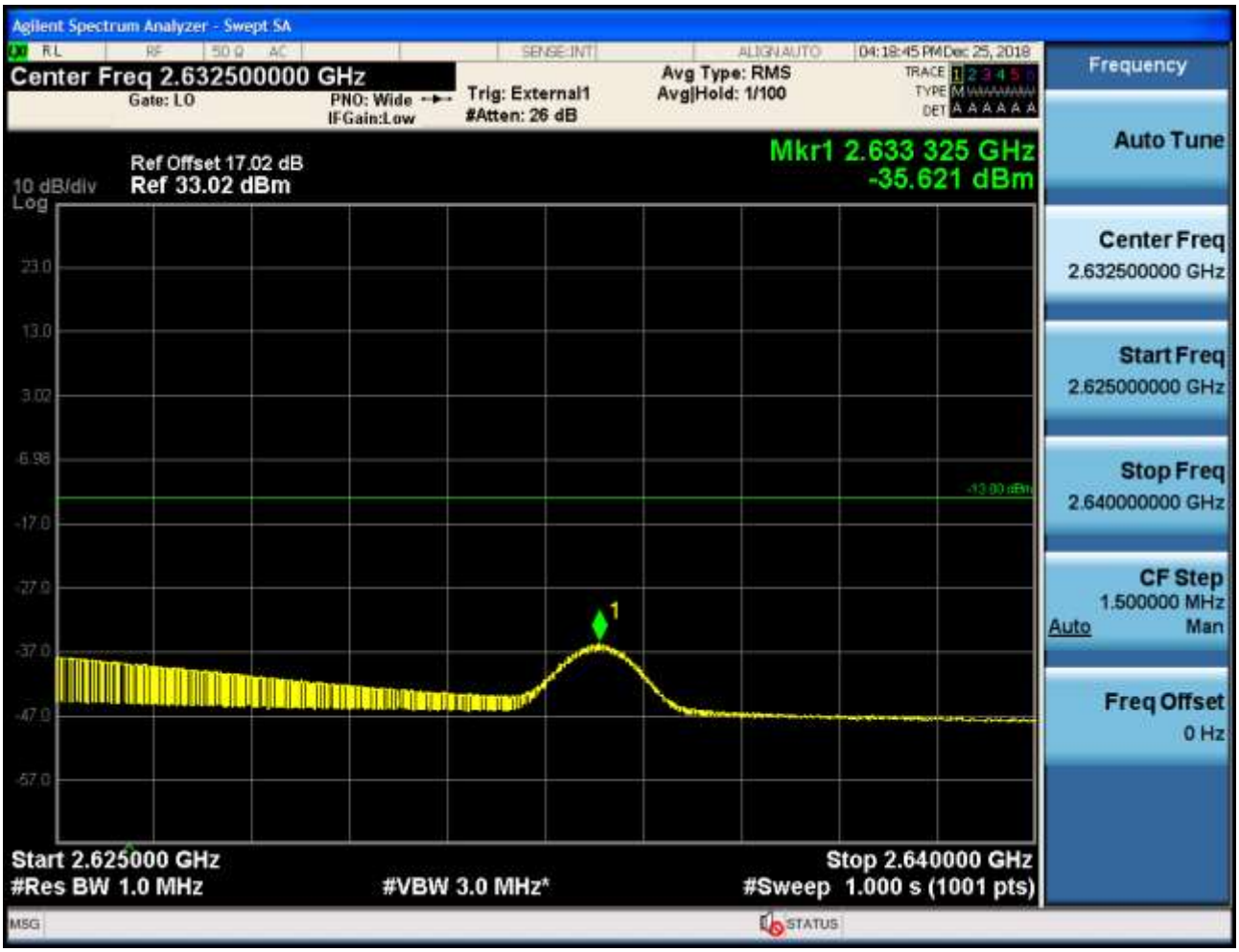
5.1.1.2.1.2 Test Channel = HCH

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



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

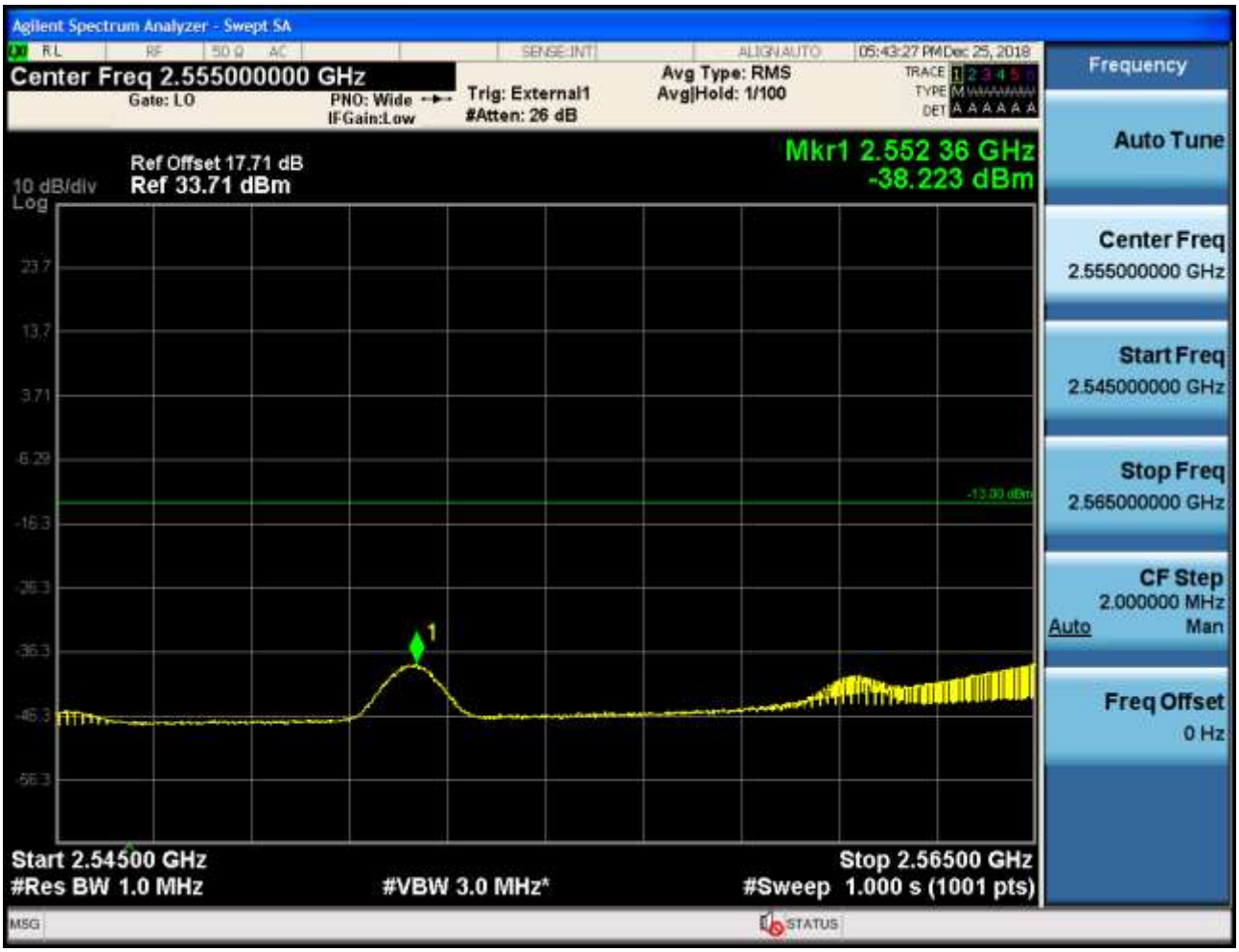
5.1.1.2.1.2.3 PCC Test RB = 0 & SCC Test RB = full RBs

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

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



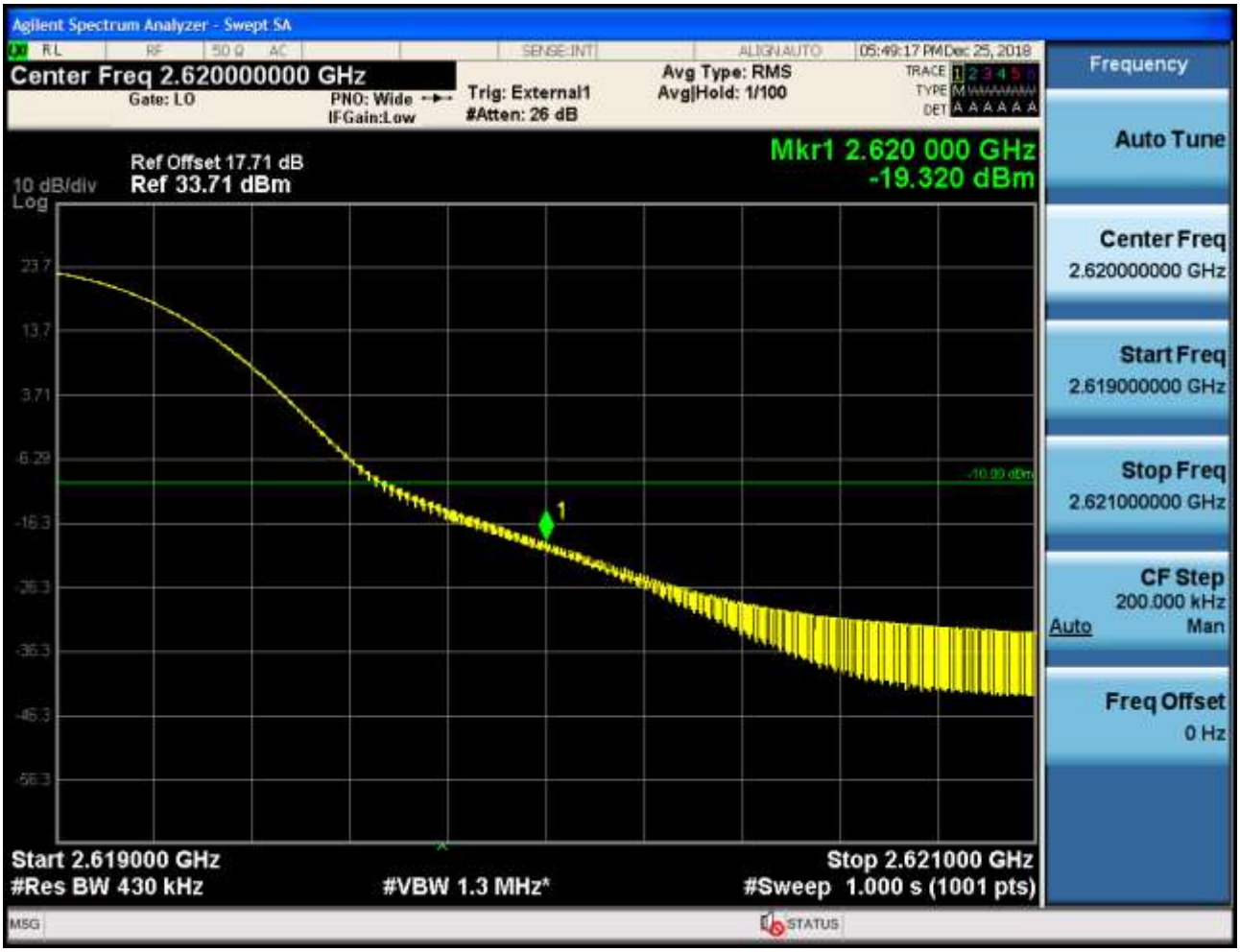
5.1.1.2.2.1.2 PCC Test RB = partial RBs #0 & SCC Test RB = 0

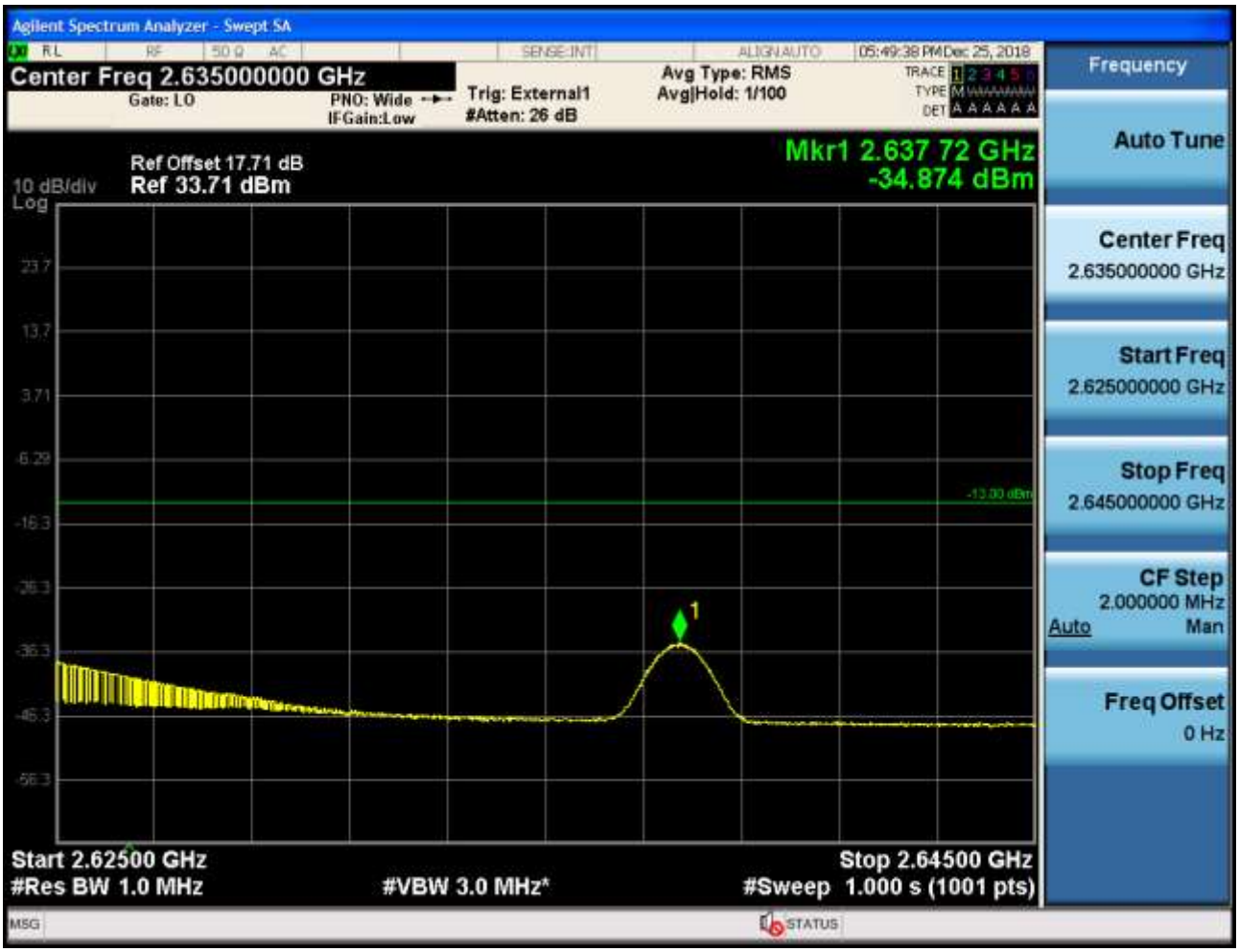
5.1.1.2.2.1.3 PCC Test RB = full RBs & SCC Test RB = 0

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

5.1.1.2.2.2.4 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

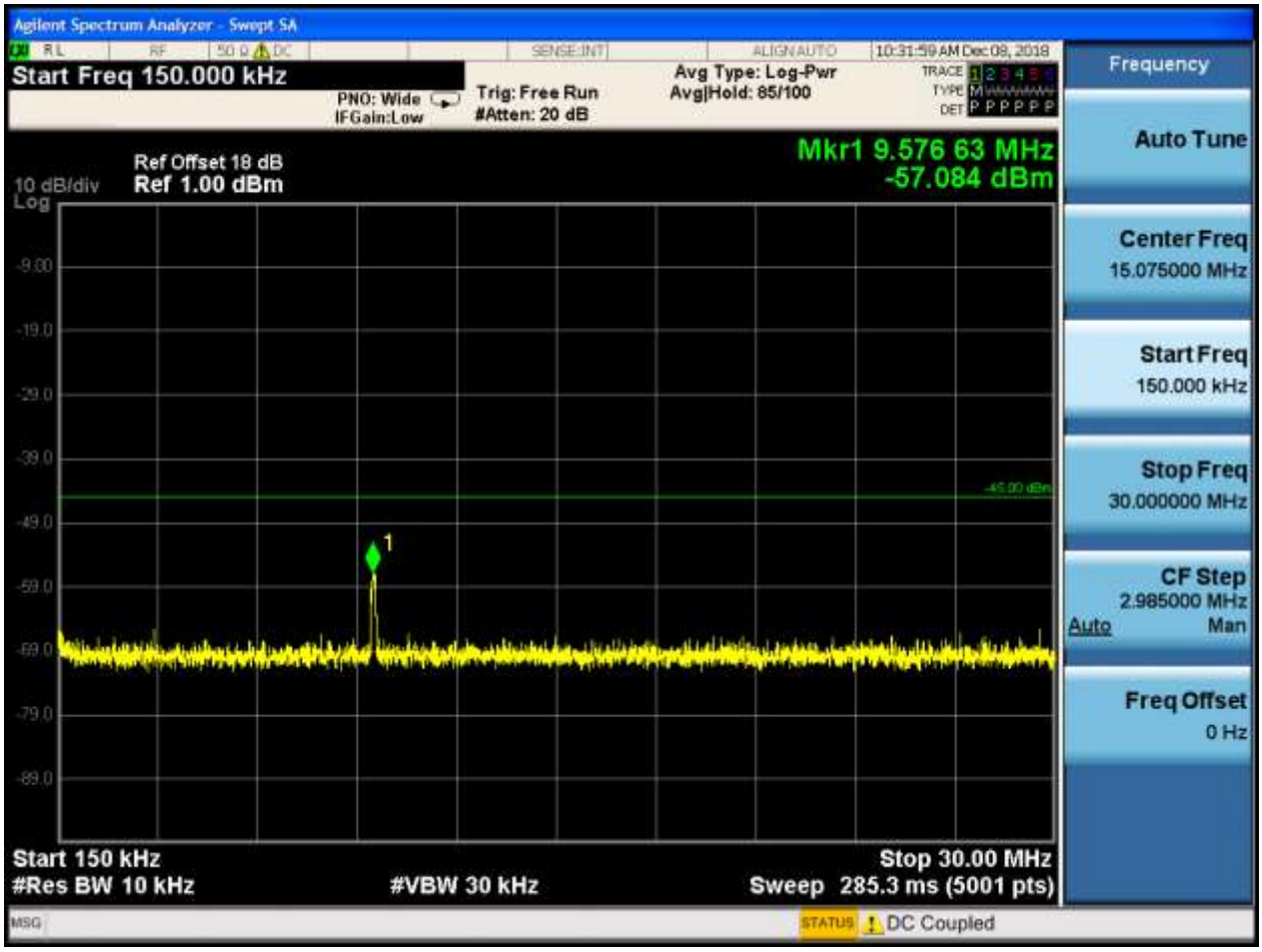
6.1.1 Test Band = CA_38C

6.1.1.1 Test Mode = LTE/TM1

6.1.1.1.1 Test Bandwidth = 15MHz+15MHz

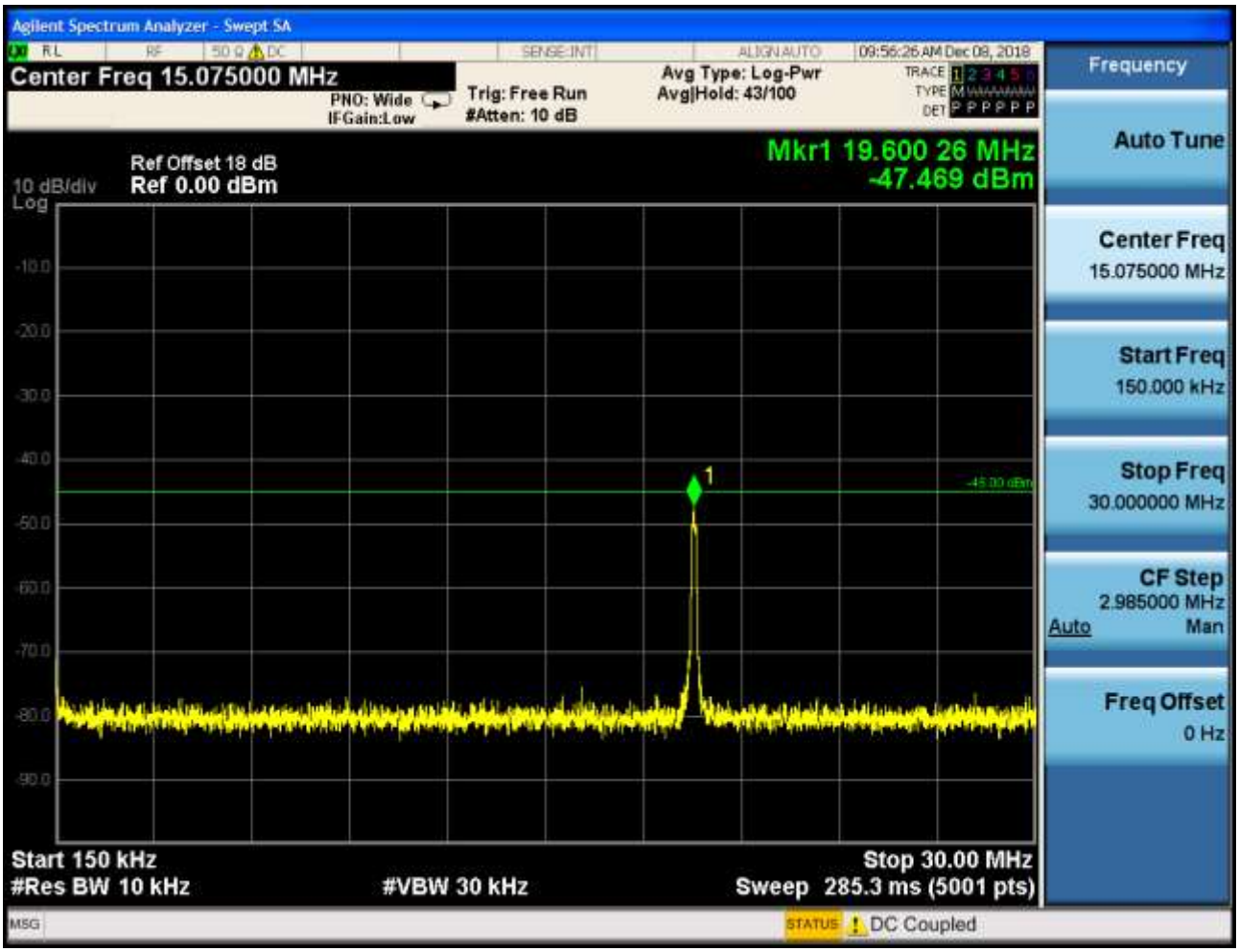
6.1.1.1.1.1 Test Channel = LCH

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



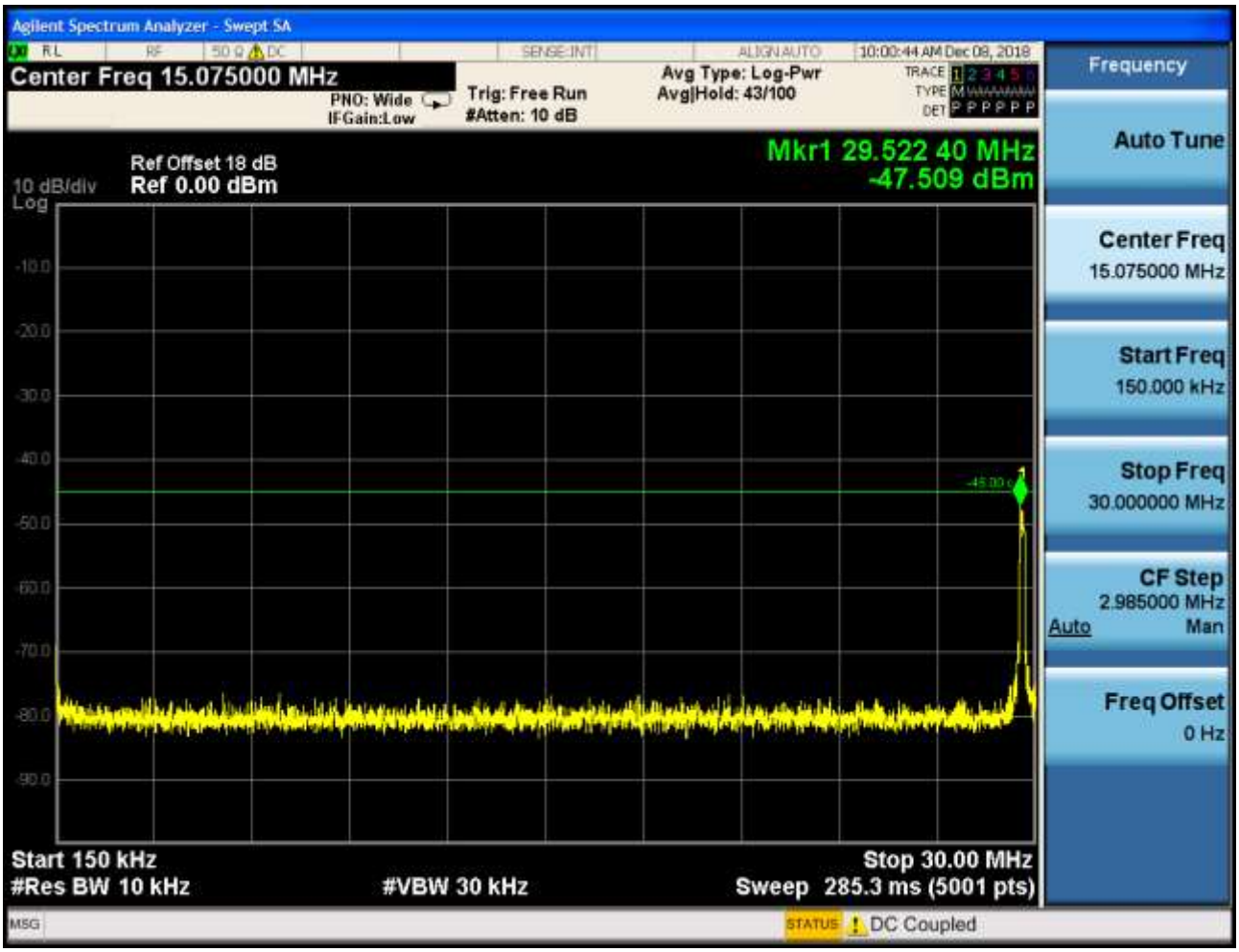
6.1.1.1.1.2 Test Channel = MCH

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

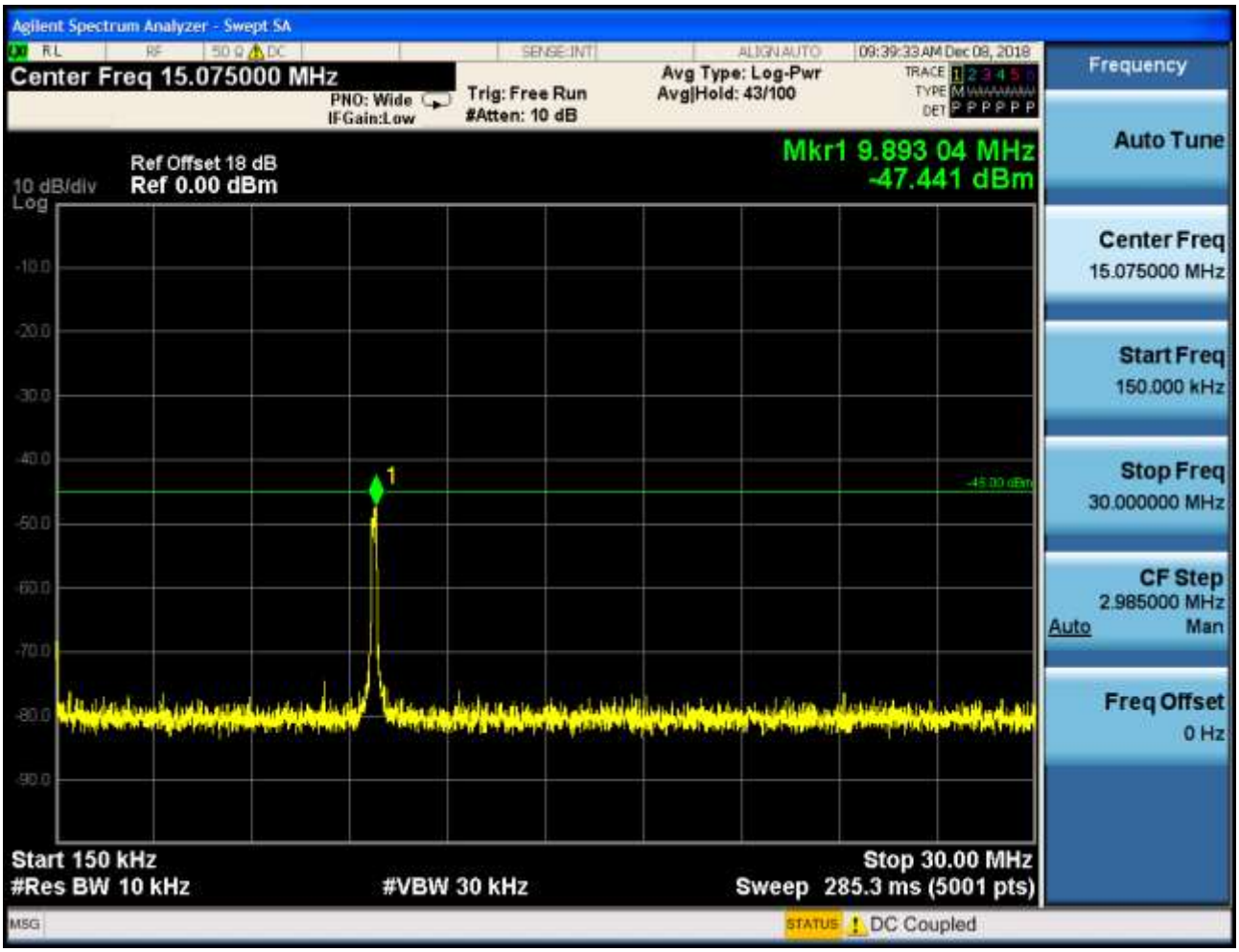
6.1.1.1.1.3.1 PCC Test RB = 1 #0& SCC Test RB = 0



6.2.1.1.2 Test Bandwidth = 20MHz+20MHz

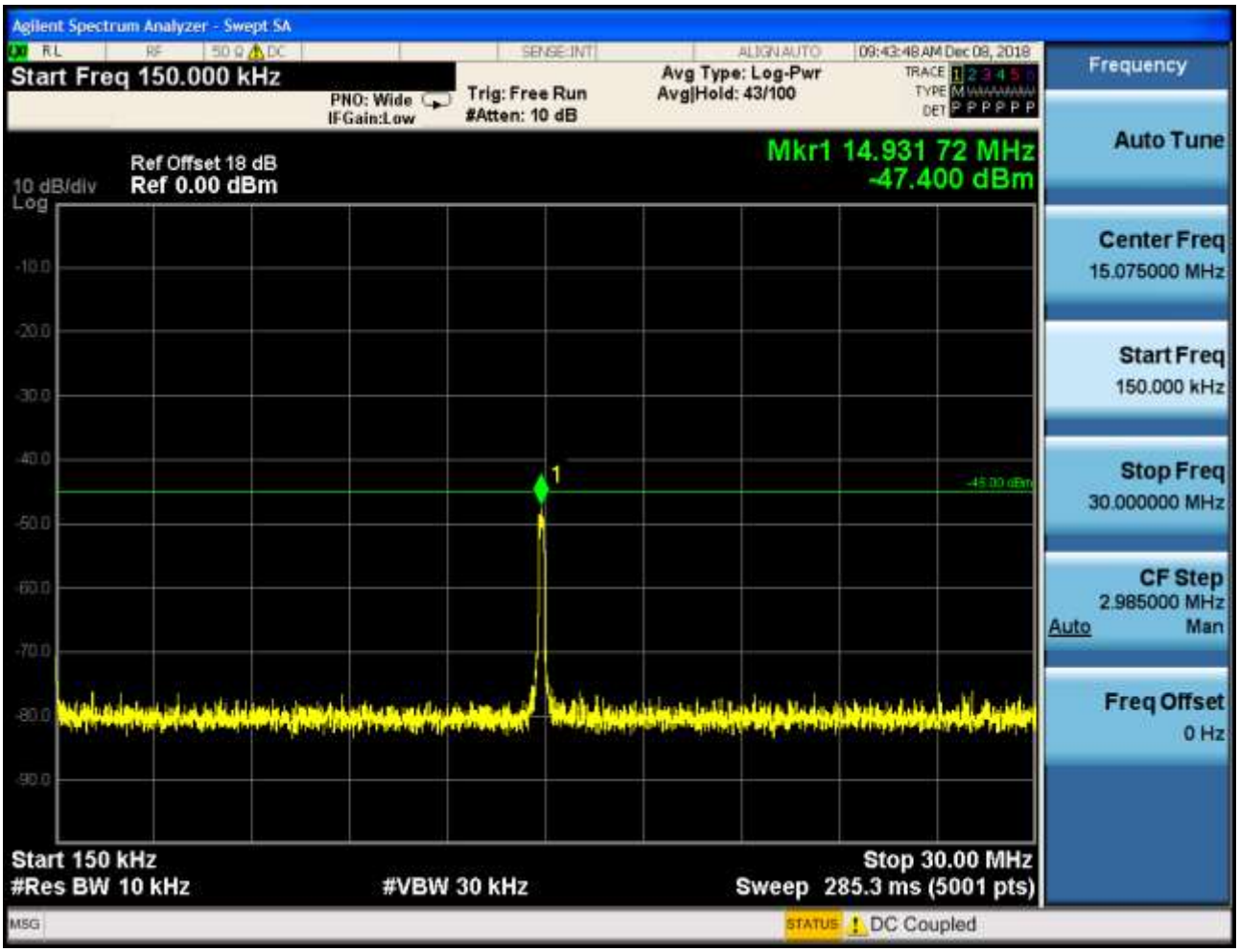
6.2.1.1.2.1 Test Channel = LCH

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



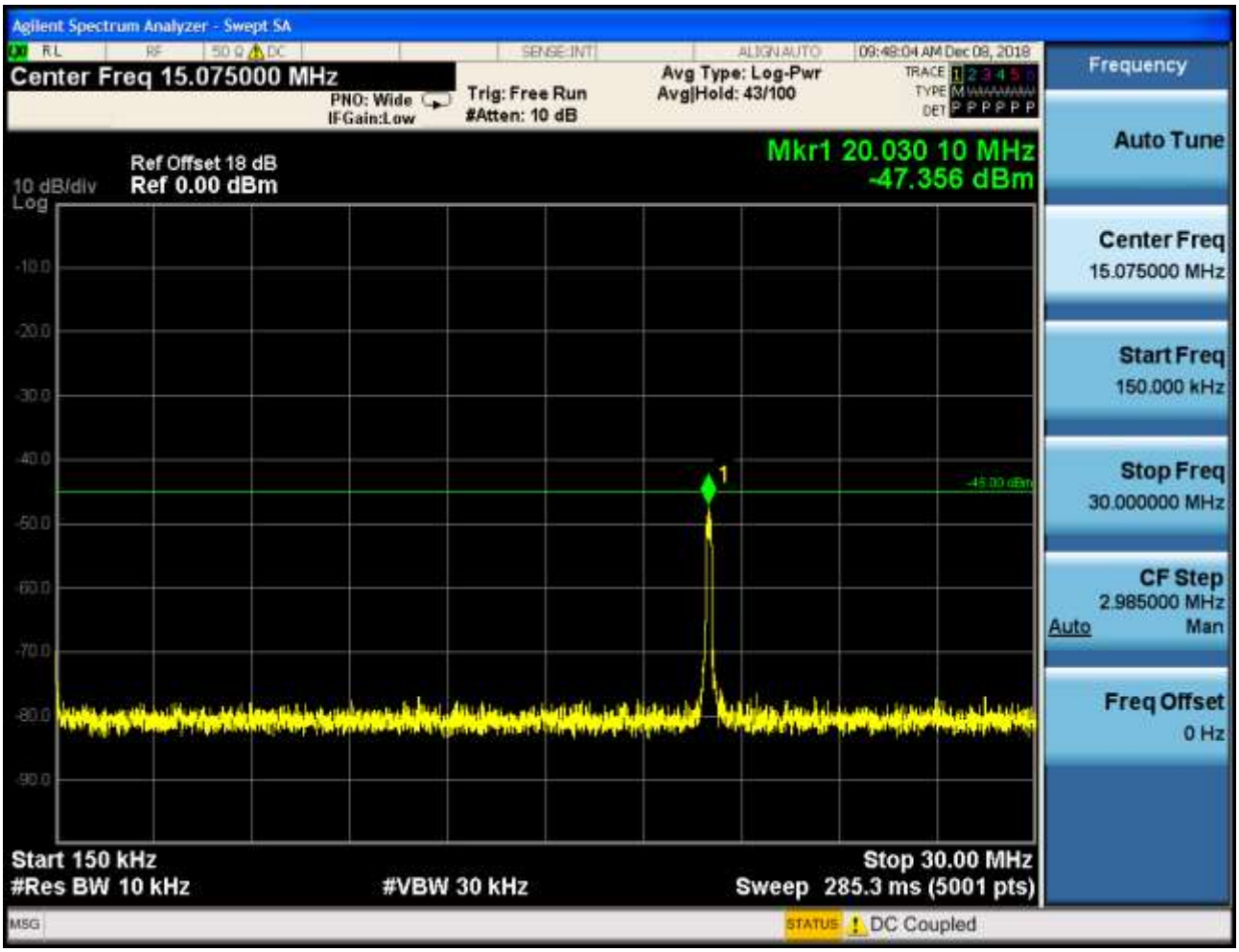
6.2.1.1.2.2 Test Channel = MCH

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

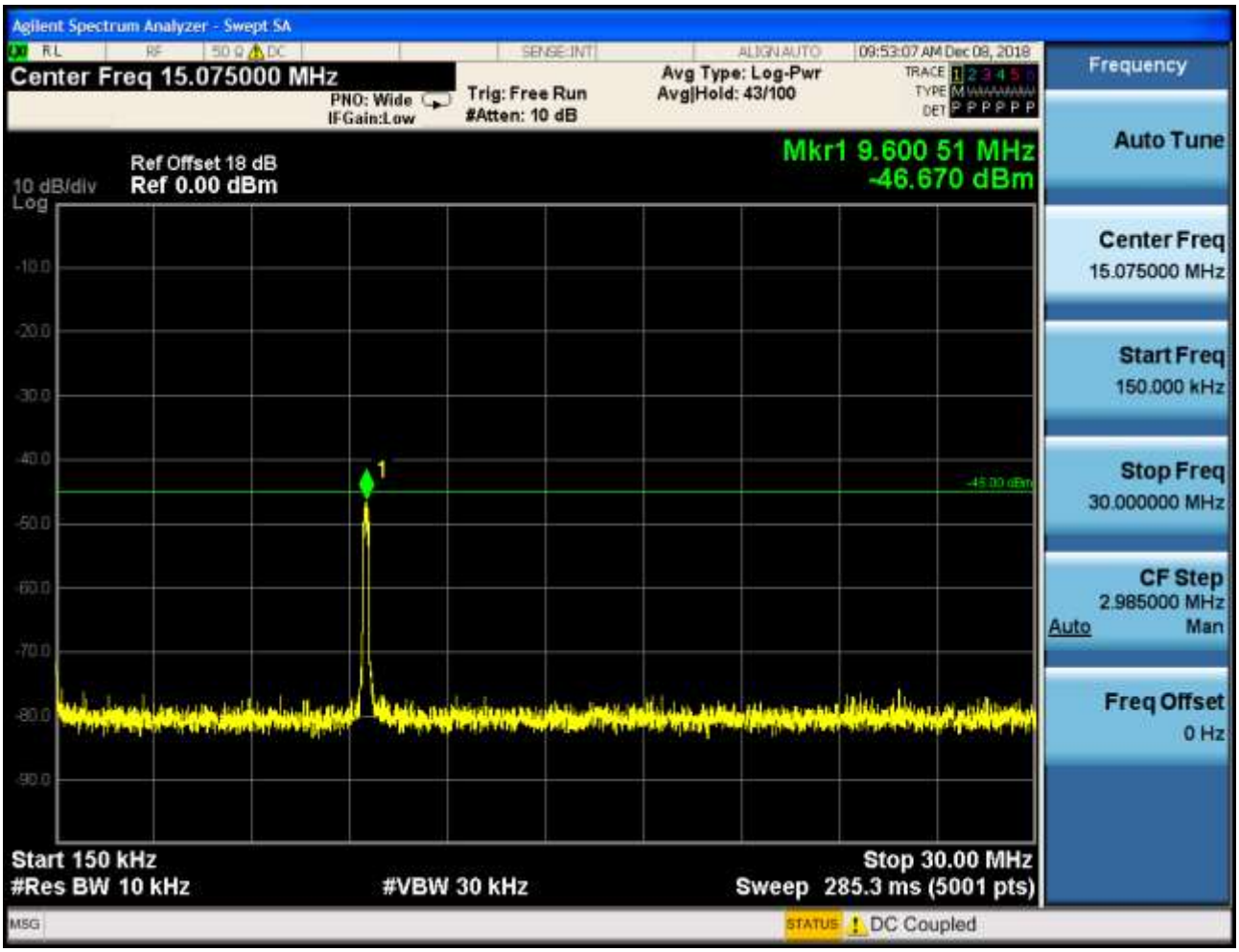


6.2.1.2 Test Mode = LTE/TM2

6.2.1.2.1 Test Bandwidth = 15MHz+15MHz

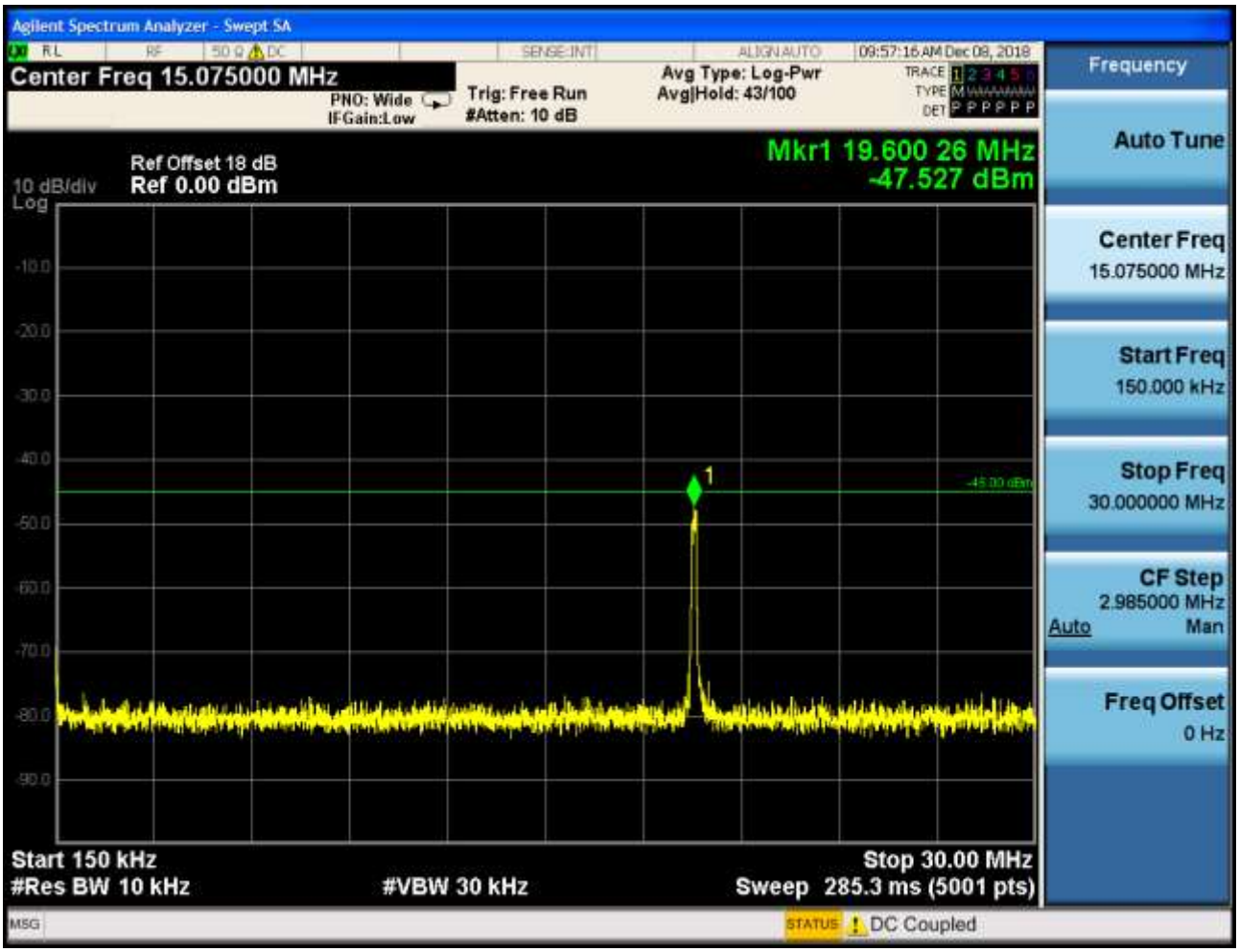
6.2.1.2.1.1 Test Channel = LCH

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



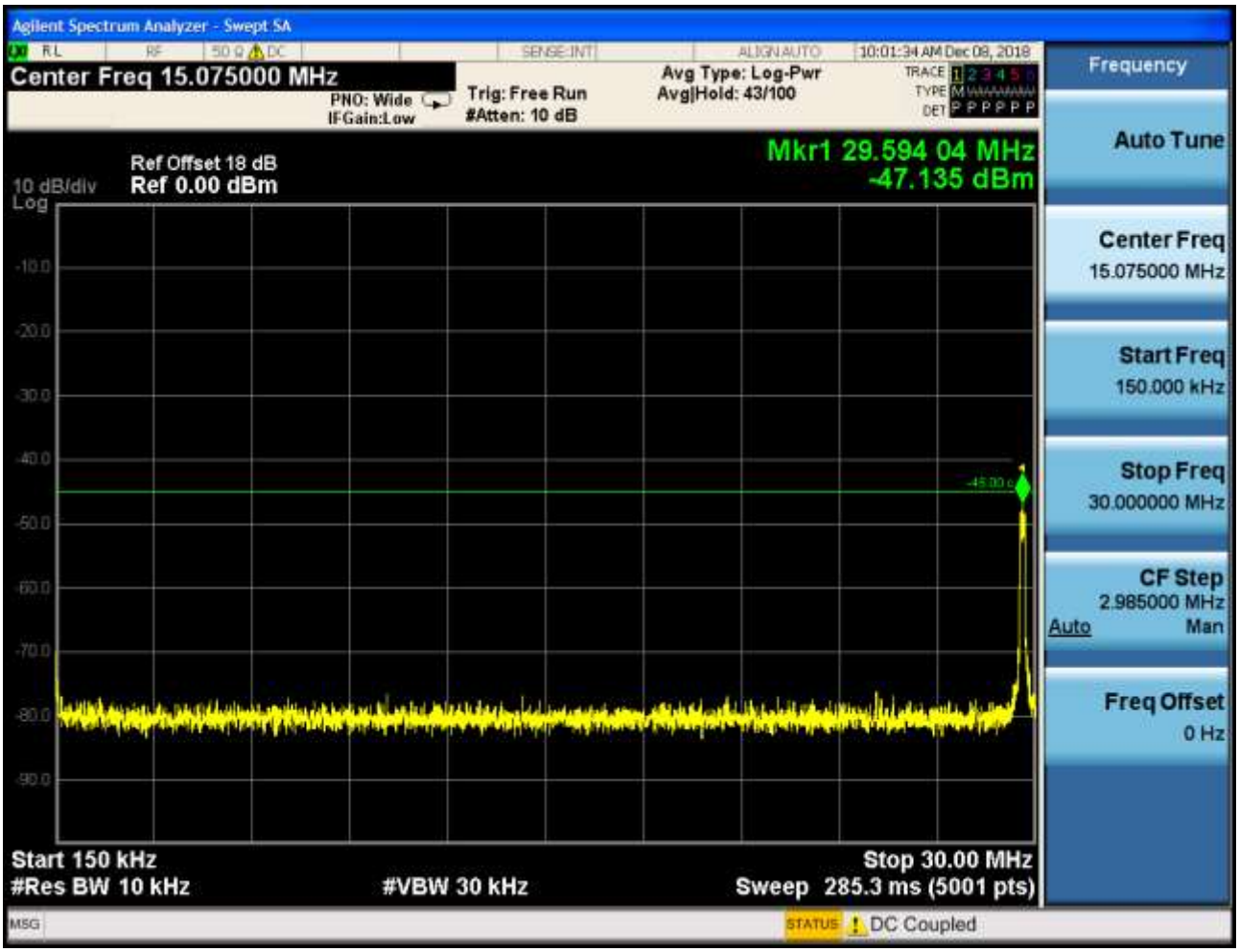
6.2.1.2.1.2 Test Channel = MCH

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

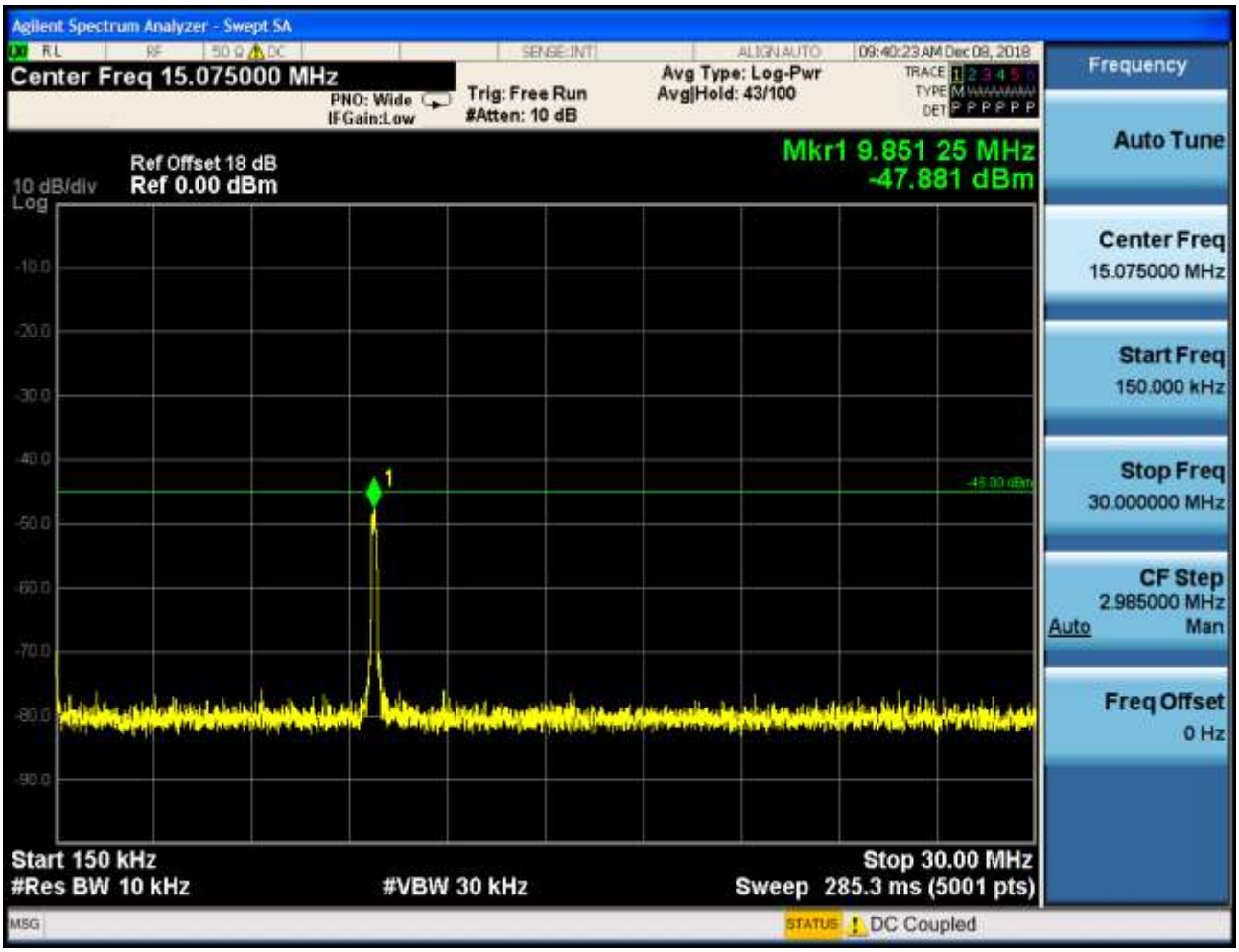
6.1.1.2.1.3.1 PCC Test RB = 1 #0& SCC Test RB = 0



6.2.1.2.2 Test Bandwidth = 20MHz+20MHz

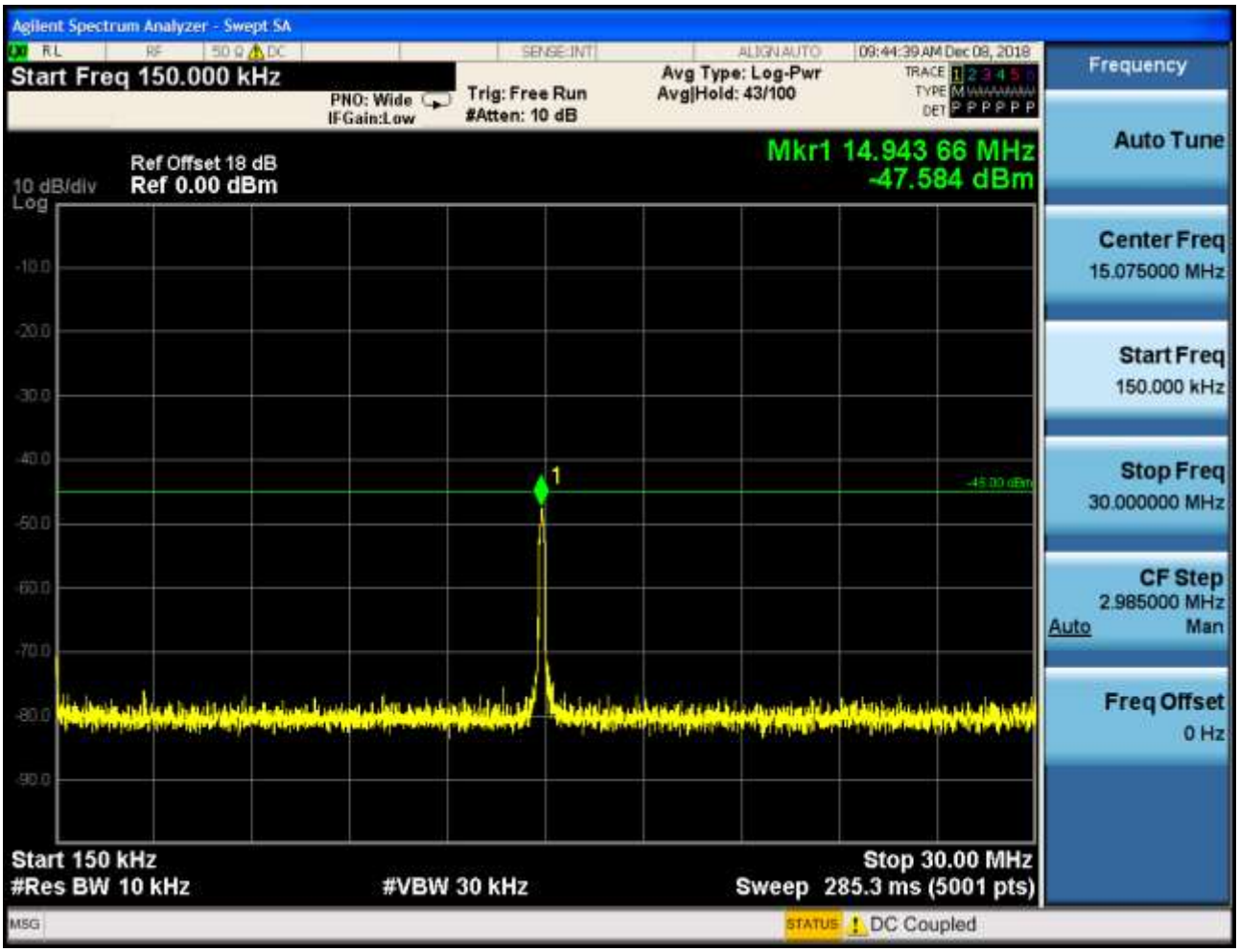
6.2.1.2.2.1 Test Channel = LCH

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



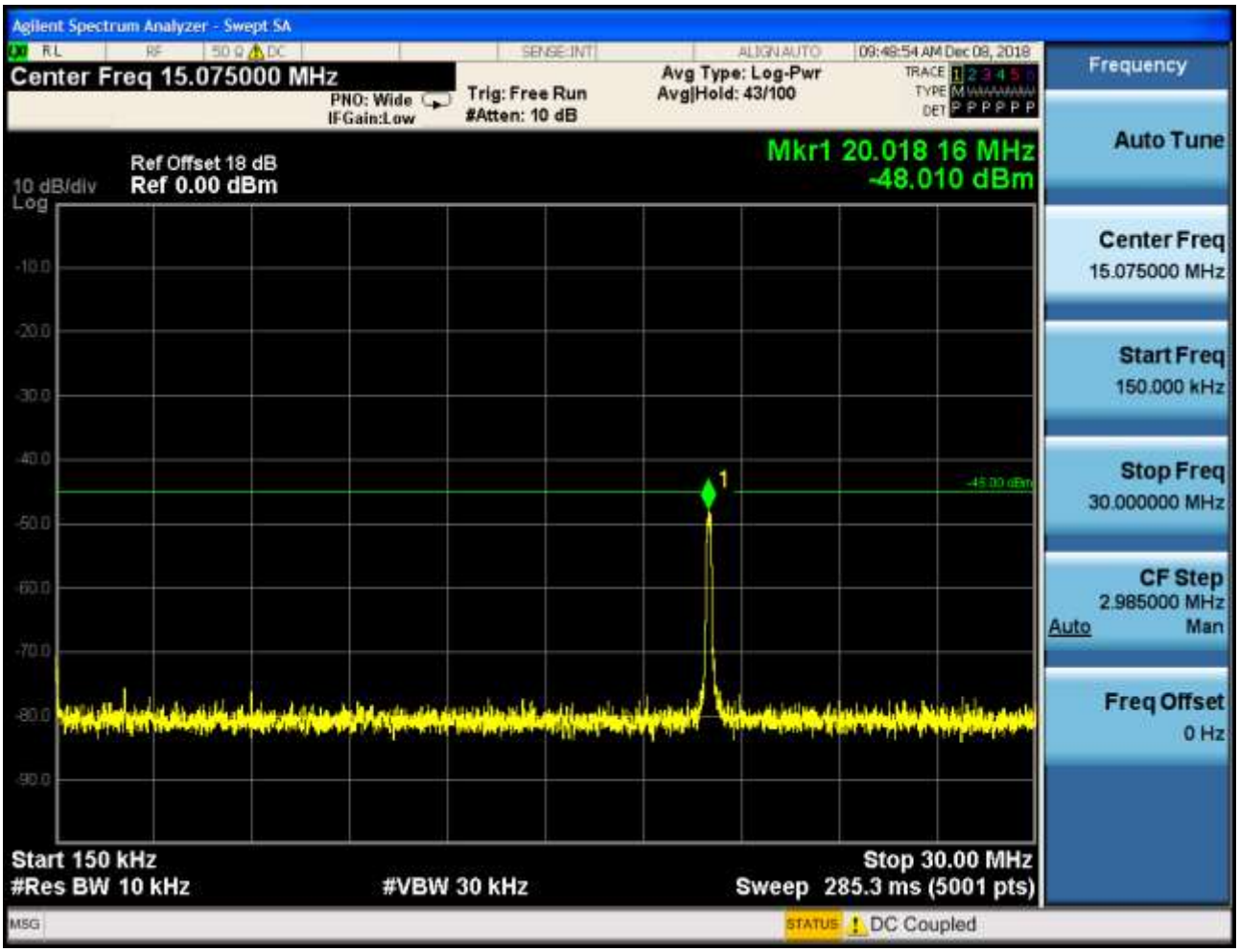
6.2.1.2.2.2 Test Channel = MCH

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

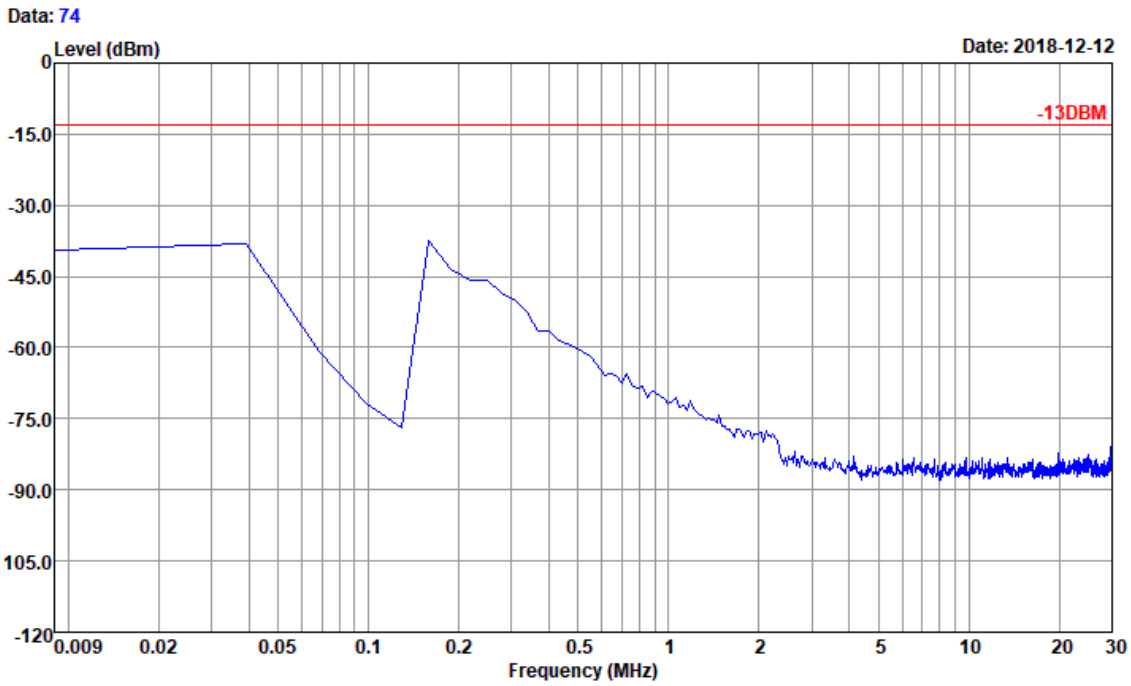
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

7.1 For LTE

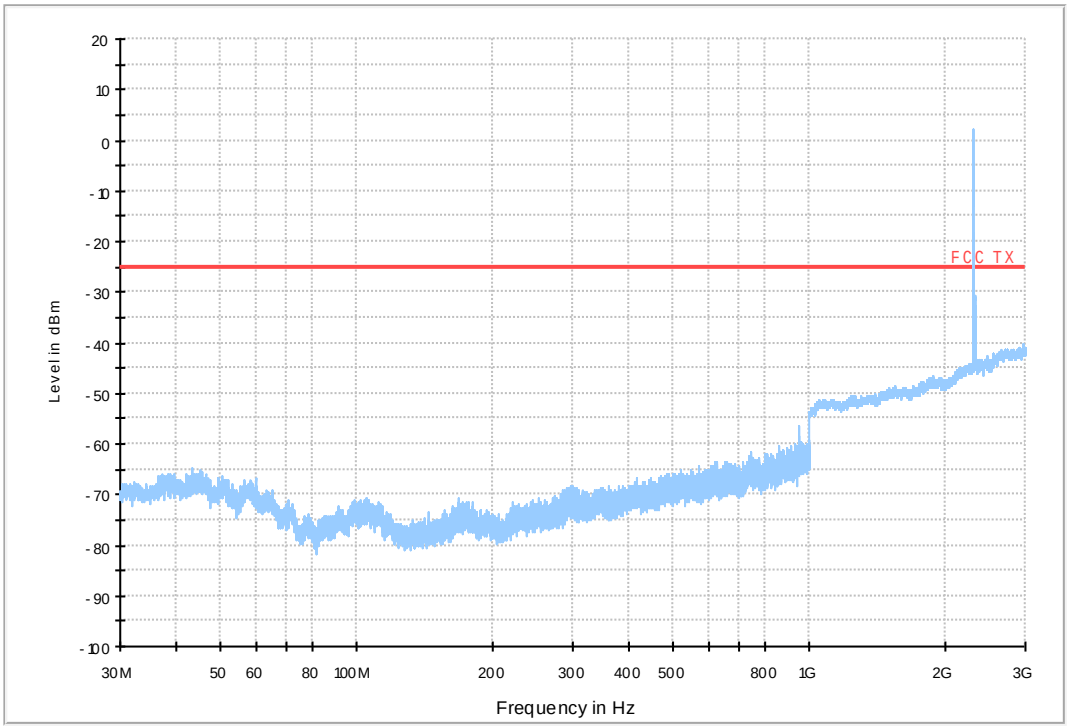
7.1.1 Test Band = CA_38C_ANT1

7.1.1.1 Test Bandwidth = 15MHz+15MHz

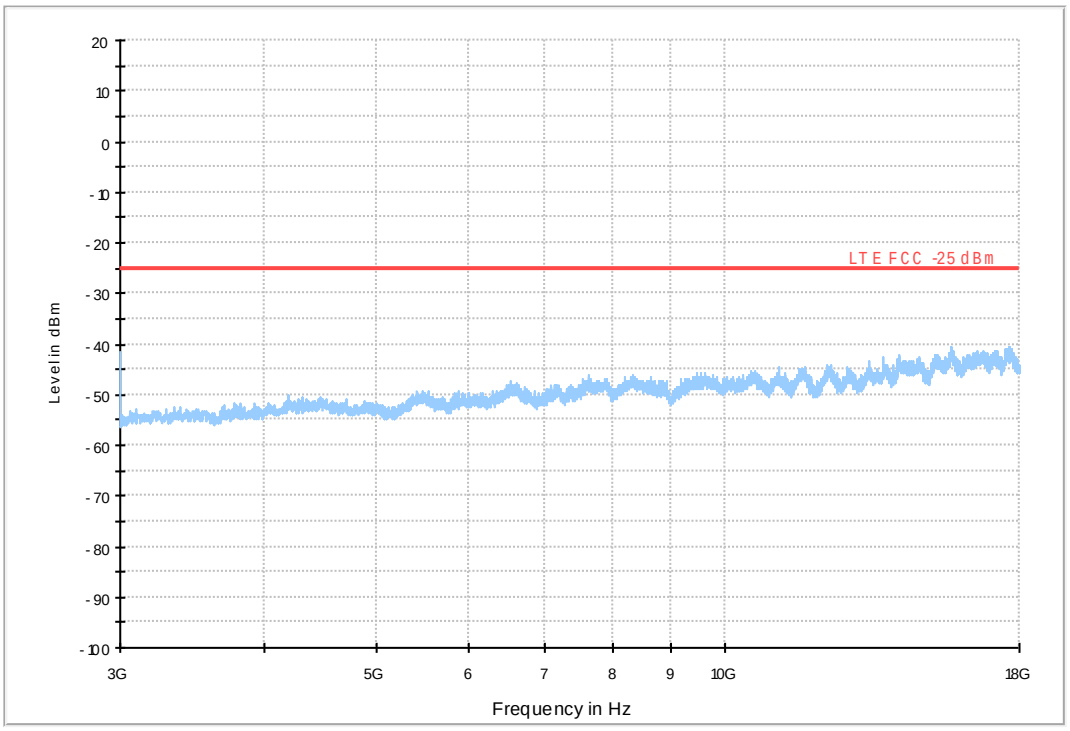


Site : 03CH01-SZ
Condition : -13DBM
: RBW:9.000KHz VBW:30.000KHz

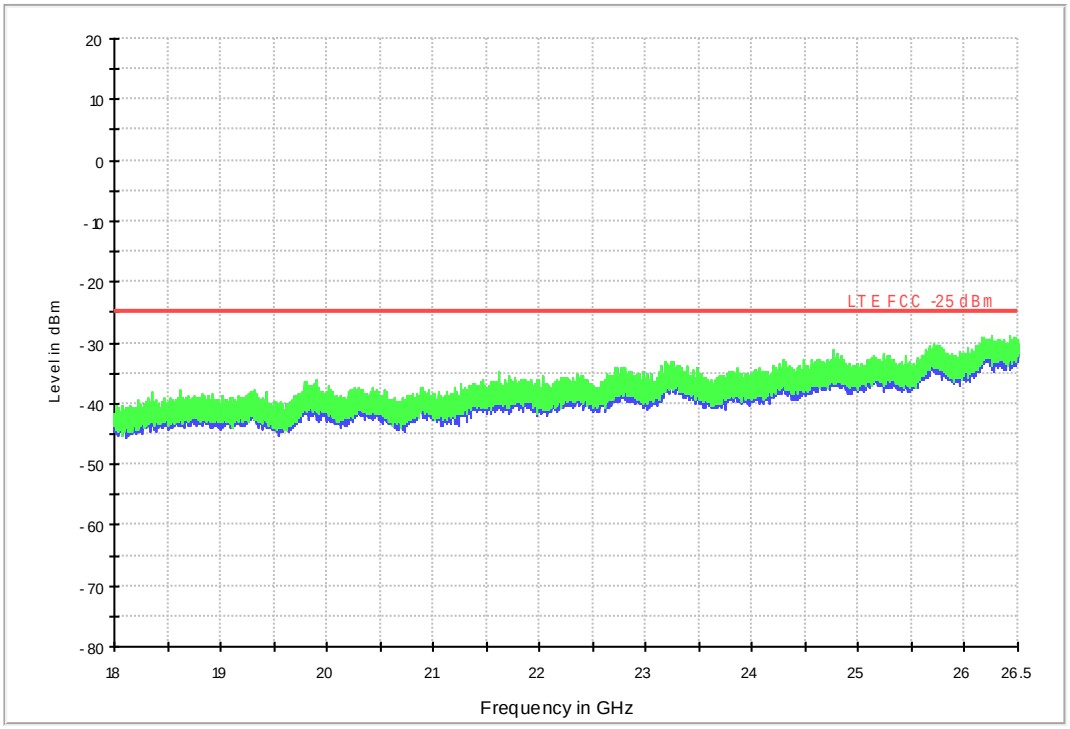
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



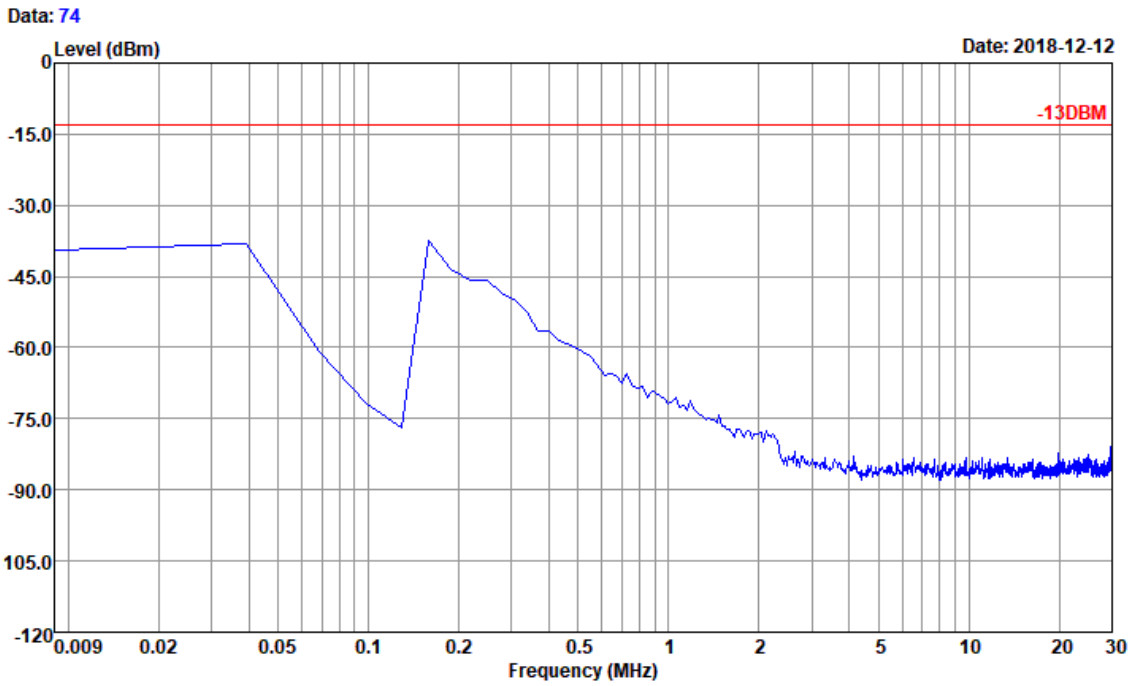
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



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

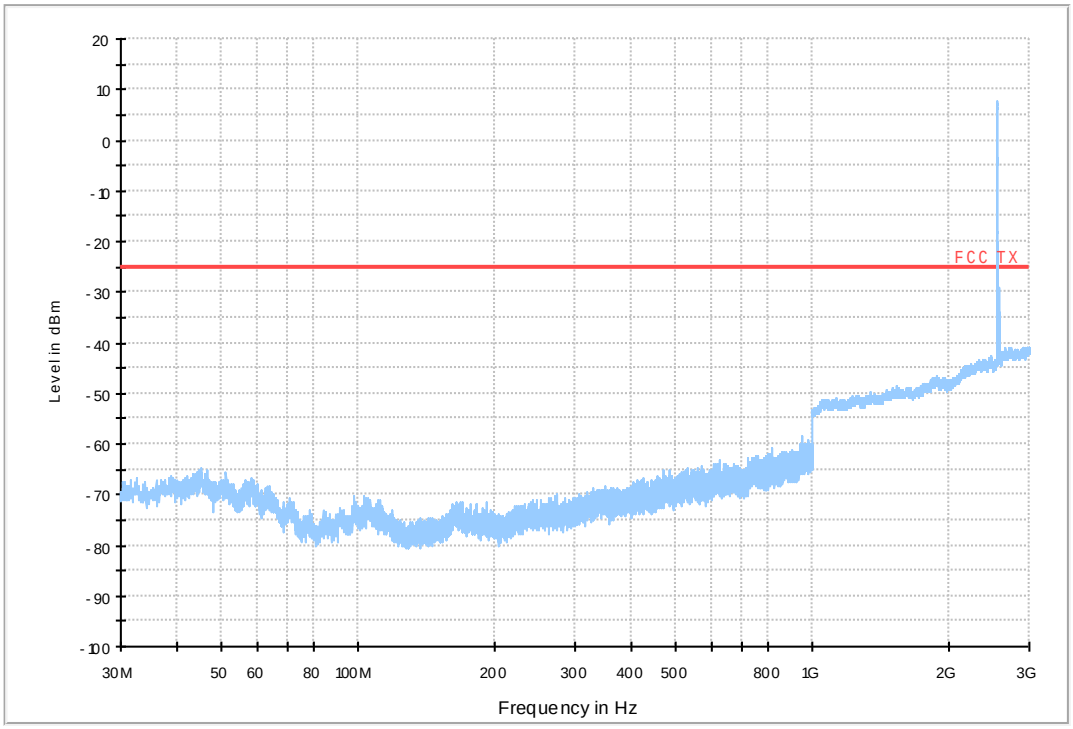


7.1.1.2 Test Bandwidth = 20MHz+20MHz

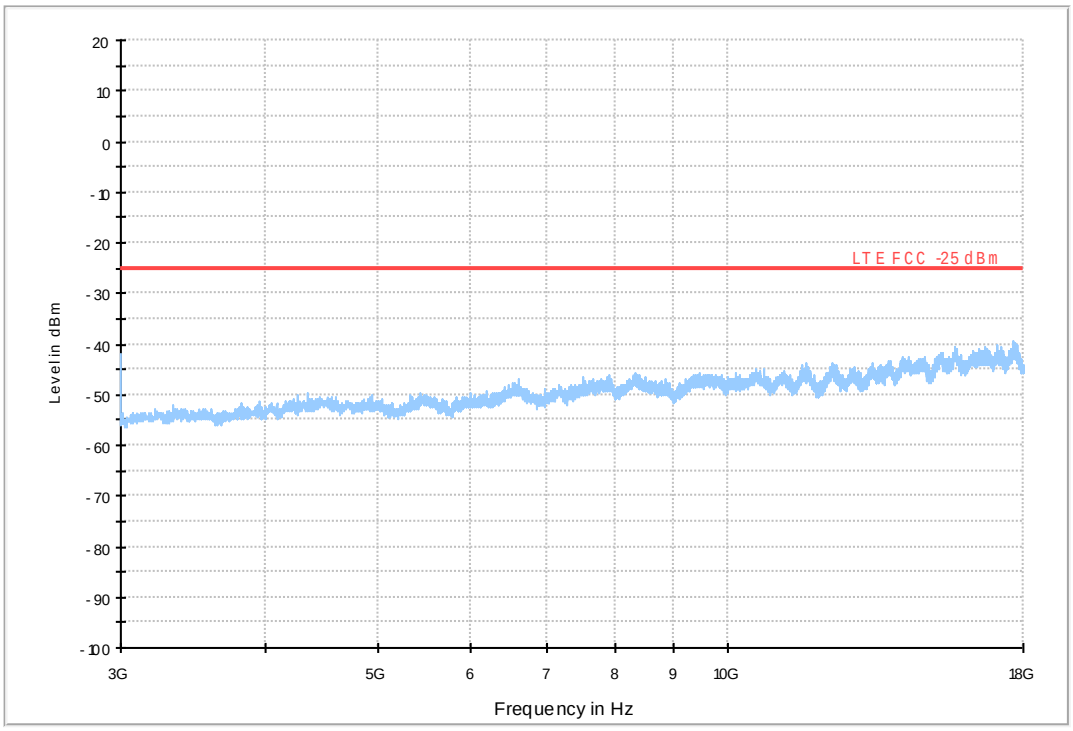


Site : 03CH01-SZ
Condition : -13DBM
: RBW:9.000KHz VBW:30.000KHz

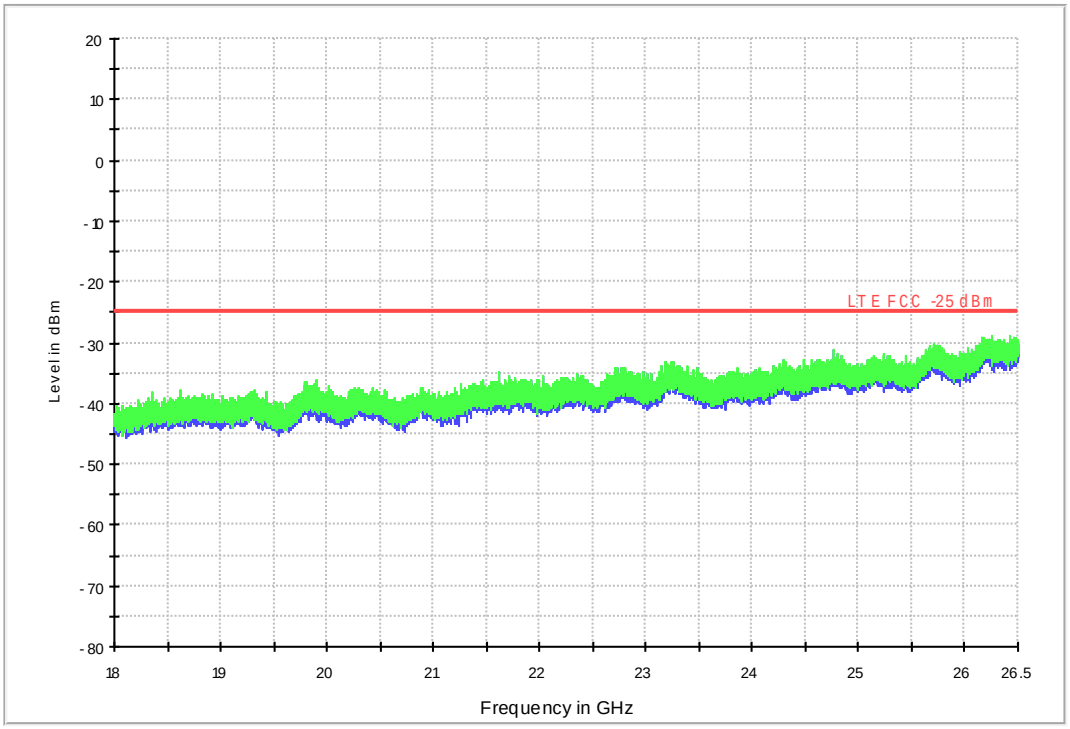
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



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

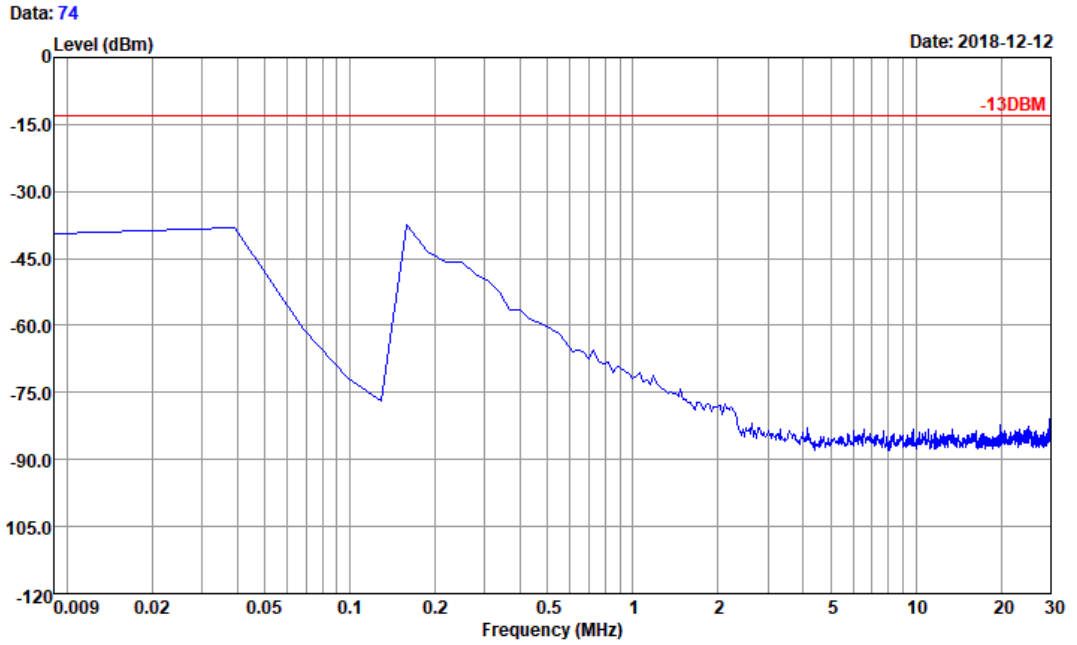


18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



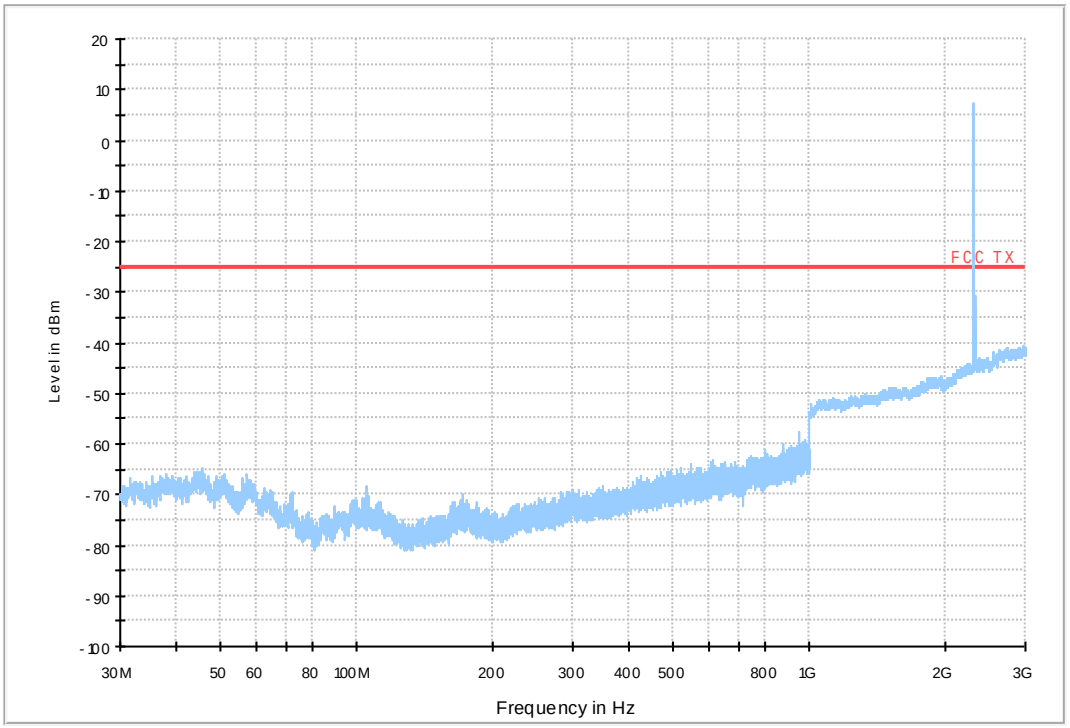
7.1.2 Test Band = CA_38C_ANT2

7.1.2.1 Test Bandwidth = 15MHz+15MHz

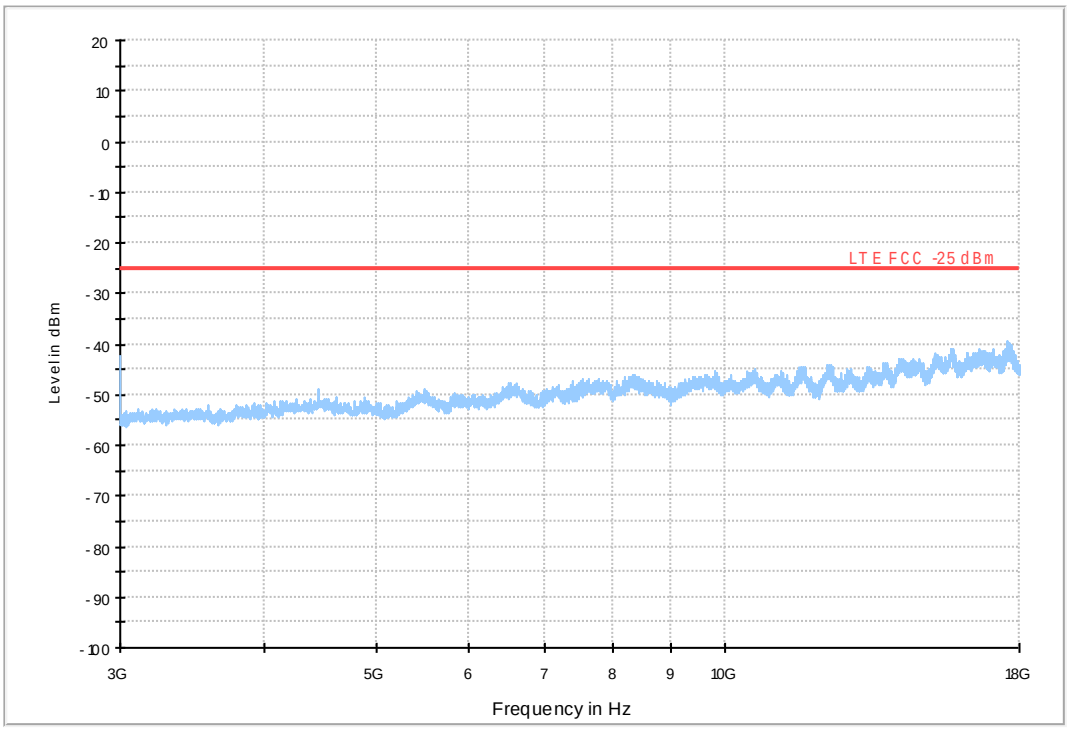


Site : 03CH01-SZ
Condition : -13DBM
: RBW:9.000KHz VBW:30.000KHz

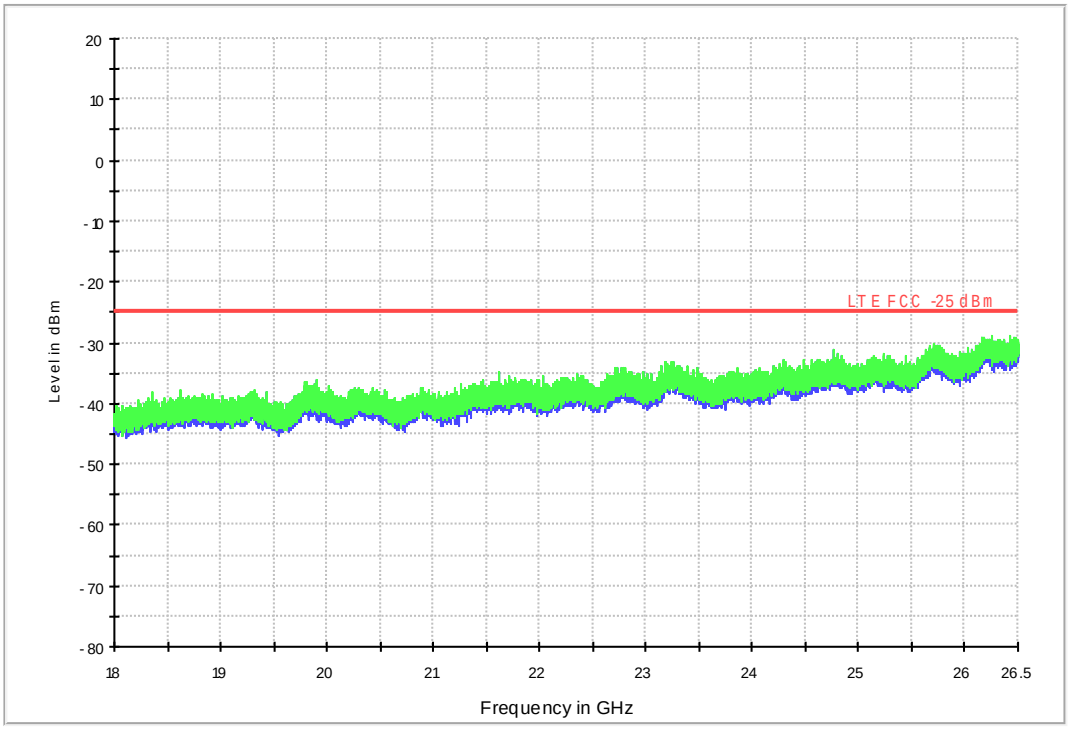
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



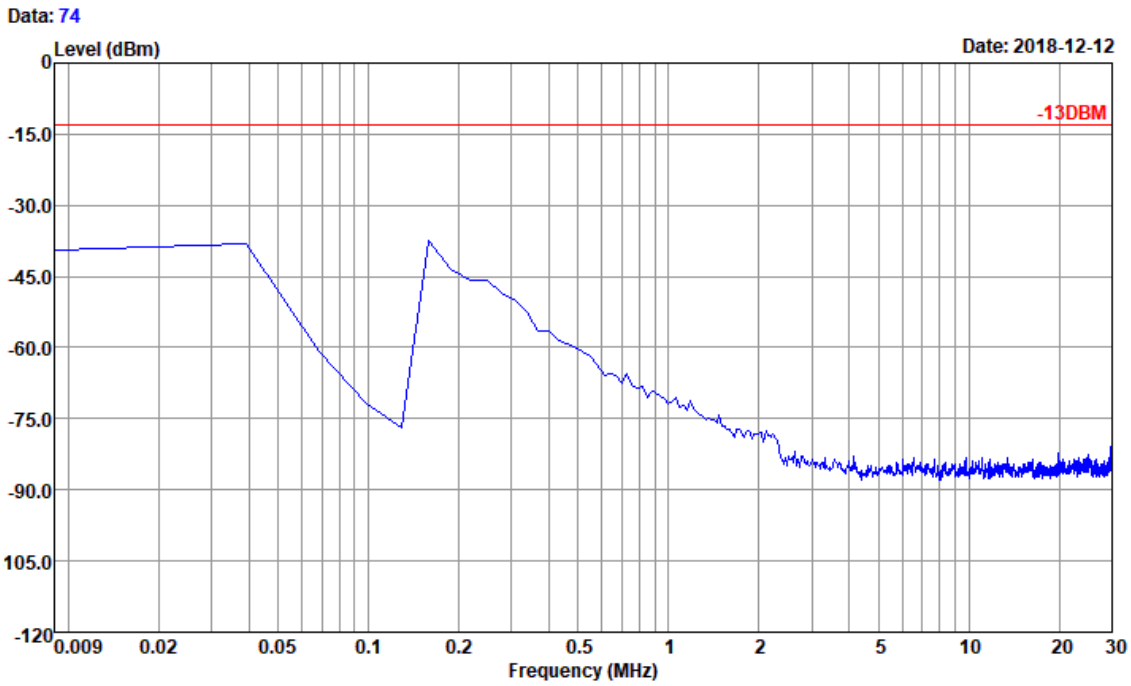
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



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

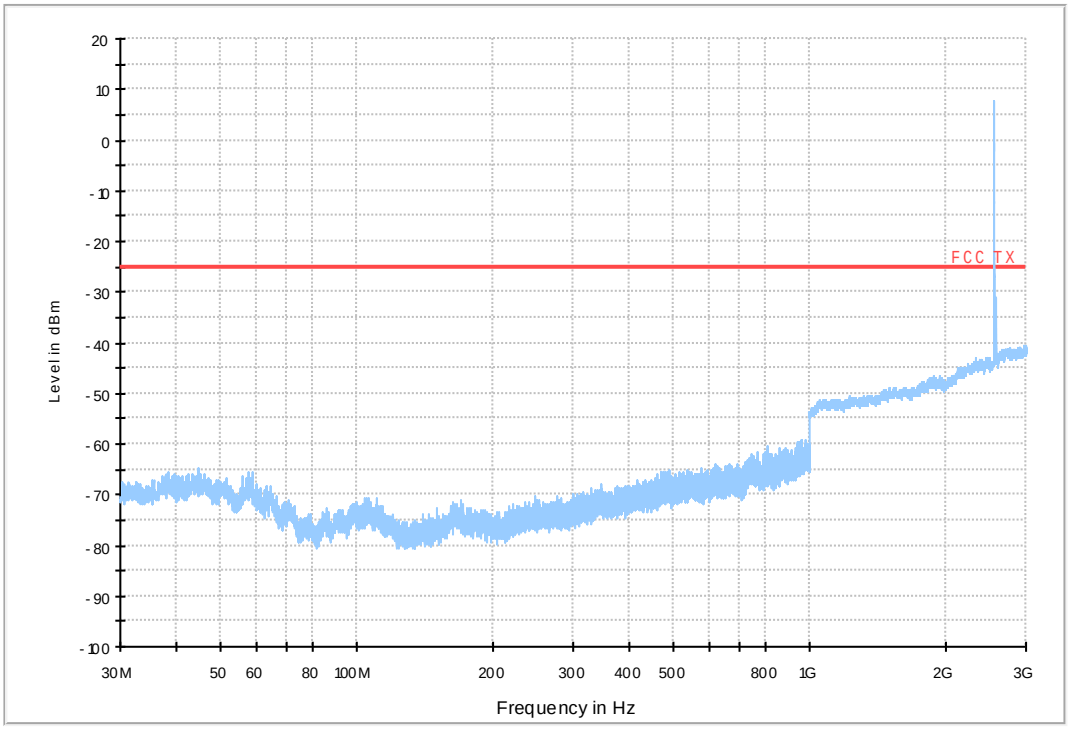


7.1.2.2 Test Bandwidth = 20MHz+20MHz

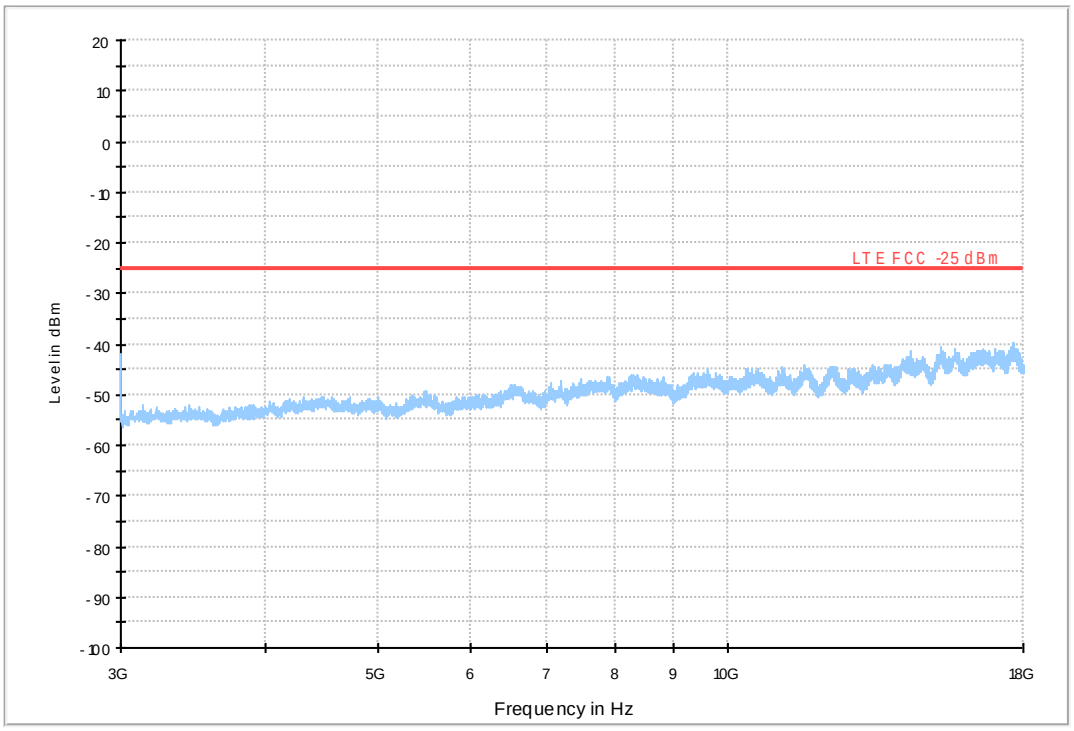


Site : 03CH01-SZ
Condition : -13DBM
: RBW:9.000KHz VBW:30.000KHz

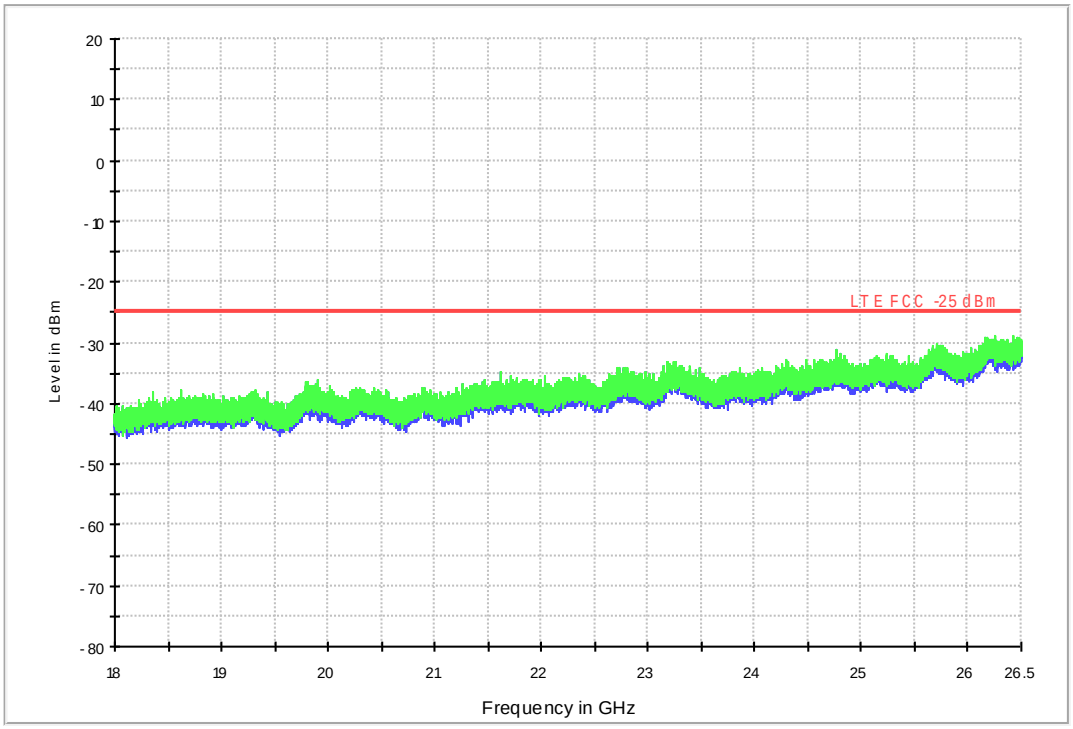
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTE TDD Band 38&41 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_38C	LTE/TM1	15MHz +15MHz	LCH	TN	VL	-32.69000	-0.01268	PASS
					VN	-32.37000	-0.01256	PASS
					VH	-29.41000	-0.01141	PASS
			MCH	TN	VL	-34.32000	-0.01326	PASS
					VN	-21.87000	-0.00845	PASS
					VH	-29.90000	-0.01156	PASS
			HCH	TN	VL	-35.48000	-0.01366	PASS
					VN	-34.16000	-0.01315	PASS
					VH	-26.84000	-0.01033	PASS
		20MHz +20MHz	LCH	TN	VL	-32.83000	-0.01272	PASS
					VN	-32.52000	-0.01260	PASS
					VH	-31.00000	-0.01202	PASS
			MCH	TN	VL	-31.04000	-0.01201	PASS
					VN	-33.66000	-0.01302	PASS
					VH	-30.78000	-0.01191	PASS
			HCH	TN	VL	-34.00000	-0.01313	PASS
					VN	-32.42000	-0.01252	PASS
					VH	-29.17000	-0.01126	PASS
	LTE/TM2	15MHz +15MHz	LCH	TN	VL	-28.08000	-0.01089	PASS
					VN	-35.55000	-0.01379	PASS
					VH	-33.53000	-0.01301	PASS
			MCH	TN	VL	-27.15000	-0.01049	PASS
					VN	-39.55000	-0.01529	PASS
					VH	-29.84000	-0.01153	PASS
			HCH	TN	VL	-21.50000	-0.00828	PASS
					VN	-33.09000	-0.01274	PASS
					VH	-29.80000	-0.01147	PASS
		20MHz +20MHz	LCH	TN	VL	-24.91000	-0.00966	PASS
					VN	-35.82000	-0.01388	PASS
					VH	-28.40000	-0.01101	PASS
			MCH	TN	VL	-24.35000	-0.00942	PASS
					VN	-36.46000	-0.01410	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VH	-27.49000	-0.01063	PASS
			HCH	TN	VL	-28.50000	-0.01100	PASS
					VN	-38.97000	-0.01505	PASS
					VH	-34.36000	-0.01327	PASS

8.1.2Frequency 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_38C	LTE/TM1	15MHz+15MHz	LCH	VN	-30	-34.05000	-0.01321	PASS
					-20	-31.03000	-0.01204	PASS
					-10	-30.57000	-0.01186	PASS
					0	-25.69000	-0.00997	PASS
					10	-30.57000	-0.01186	PASS
					20	-32.37000	-0.01256	PASS
					30	-32.37000	-0.01256	PASS
					40	-31.81000	-0.01234	PASS
					50	-30.40000	-0.01179	PASS
			MCH	VN	-30	-31.26000	-0.01208	PASS
					-20	-27.09000	-0.01047	PASS
					-10	-29.41000	-0.01137	PASS
					0	-29.37000	-0.01135	PASS
					10	-30.23000	-0.01168	PASS
					20	-21.8700	-0.00845	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
						0		
					30	-30.30000	-0.01171	PASS
					40	-27.98000	-0.01081	PASS
					50	-30.64000	-0.01184	PASS
			HCH	VN	-30	-36.66000	-0.01411	PASS
					-20	-28.47000	-0.01096	PASS
					-10	-27.82000	-0.01071	PASS
					0	-24.48000	-0.00942	PASS
					10	-32.80000	-0.01263	PASS
					20	-34.16000	-0.01315	PASS
					30	-32.50000	-0.01251	PASS
					40	-29.71000	-0.01144	PASS
					50	-34.98000	-0.01347	PASS
		20MHz+20MHz	LCH	VN	-30	-33.33000	-0.01292	PASS
					-20	-36.92000	-0.01431	PASS
					-10	-29.08000	-0.01127	PASS
					0	-36.22000	-0.01404	PASS
					10	-29.41000	-0.01140	PASS
					20	-32.52000	-0.01260	PASS
					30	-26.24000	-0.01017	PASS
					40	-28.9200	-0.01121	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
						0		
					50	-31.39000	-0.01217	PASS
			MCH	VN	-30	-26.04000	-0.01007	PASS
					-20	-33.26000	-0.01287	PASS
					-10	-27.84000	-0.01077	PASS
					0	-29.63000	-0.01146	PASS
					10	-28.12000	-0.01088	PASS
					20	-33.66000	-0.01302	PASS
					30	-28.02000	-0.01084	PASS
					40	-28.62000	-0.01107	PASS
					50	-29.97000	-0.01159	PASS
			HCH	VN	-30	-26.54000	-0.01025	PASS
					-20	-32.47000	-0.01254	PASS
					-10	-30.30000	-0.01170	PASS
					0	-30.78000	-0.01188	PASS
					10	-38.42000	-0.01483	PASS
					20	-32.42000	-0.01252	PASS
					30	-28.58000	-0.01103	PASS
					40	-31.40000	-0.01212	PASS
					50	-32.19000	-0.01243	PASS
	LTE/TM2	15MHz+15MH	LCH	VN	-30	-37.1200	-0.01440	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		z				0		
					-20	-32.74000	-0.01270	PASS
					-10	-33.23000	-0.01289	PASS
					0	-34.35000	-0.01333	PASS
					10	-35.03000	-0.01359	PASS
					20	-35.55000	-0.01379	PASS
					30	-39.40000	-0.01529	PASS
					40	-35.98000	-0.01396	PASS
					50	-36.11000	-0.01401	PASS
			MCH	VN	-30	-32.20000	-0.01244	PASS
					-20	-35.52000	-0.01373	PASS
					-10	-33.99000	-0.01314	PASS
					0	-37.59000	-0.01453	PASS
					10	-34.43000	-0.01331	PASS
					20	-39.55000	-0.01529	PASS
					30	-34.13000	-0.01319	PASS
					40	-34.15000	-0.01320	PASS
					50	-34.35000	-0.01328	PASS
			HCH	VN	-30	-31.81000	-0.01225	PASS
					-20	-31.17000	-0.01200	PASS
					-10	-40.4500	-0.01557	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
						0		
					0	-34.79000	-0.01339	PASS
					10	-36.52000	-0.01406	PASS
					20	-33.09000	-0.01274	PASS
					30	-31.71000	-0.01221	PASS
					40	-34.48000	-0.01327	PASS
					50	-34.75000	-0.01338	PASS
		20MHz+20MHz	LCH	VN	-30	-31.01000	-0.01202	PASS
					-20	-35.56000	-0.01378	PASS
					-10	-31.31000	-0.01214	PASS
					0	-37.15000	-0.01440	PASS
					10	-33.30000	-0.01291	PASS
					20	-35.82000	-0.01388	PASS
					30	-32.82000	-0.01272	PASS
					40	-32.82000	-0.01272	PASS
					50	-29.13000	-0.01129	PASS
			MCH	VN	-30	-31.03000	-0.01200	PASS
					-20	-40.73000	-0.01576	PASS
					-10	-34.22000	-0.01324	PASS
					0	-32.23000	-0.01247	PASS
					10	-30.6400	-0.01185	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
						0		
					20	-36.46000	-0.01410	PASS
					30	-37.94000	-0.01468	PASS
					40	-33.37000	-0.01291	PASS
					50	-31.14000	-0.01205	PASS
			HCH	VN	-30	-36.49000	-0.01409	PASS
					-20	-36.81000	-0.01421	PASS
					-10	-35.61000	-0.01375	PASS
					0	-29.70000	-0.01147	PASS
					10	-37.36000	-0.01442	PASS
					20	-38.97000	-0.01505	PASS
					30	-32.43000	-0.01252	PASS
					40	-31.97000	-0.01234	PASS
					50	-44.93000	-0.01735	PASS

END