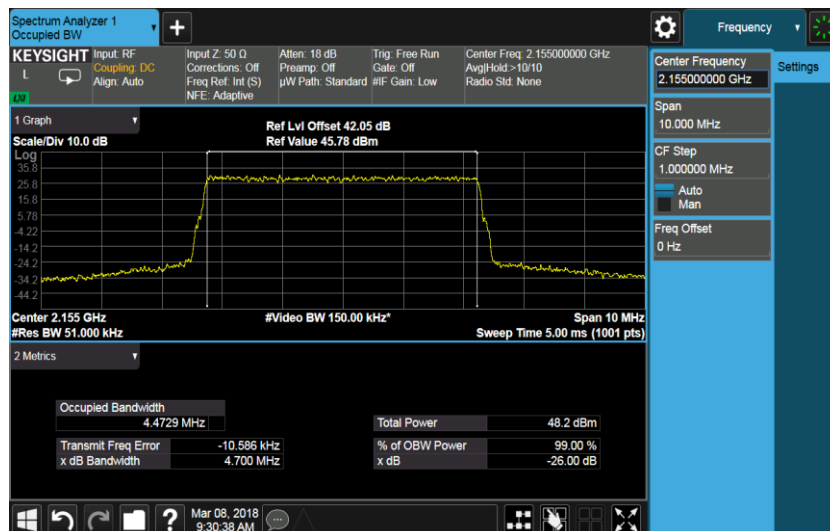
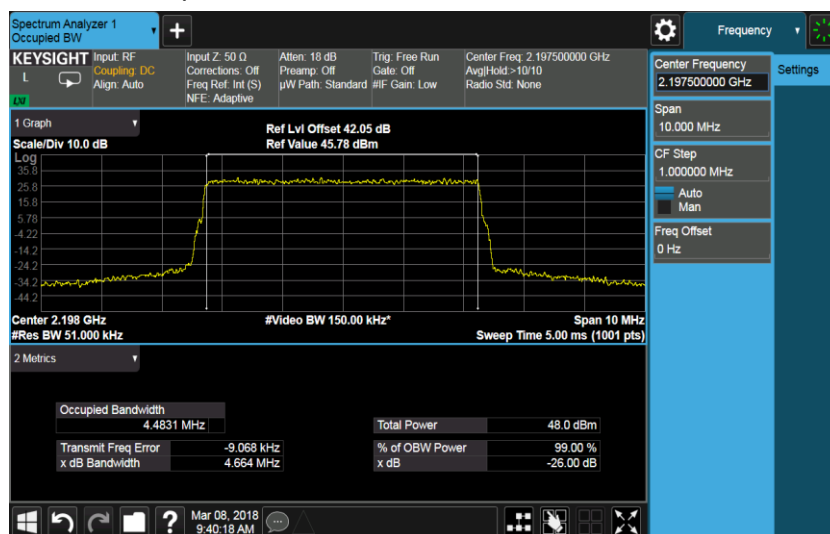




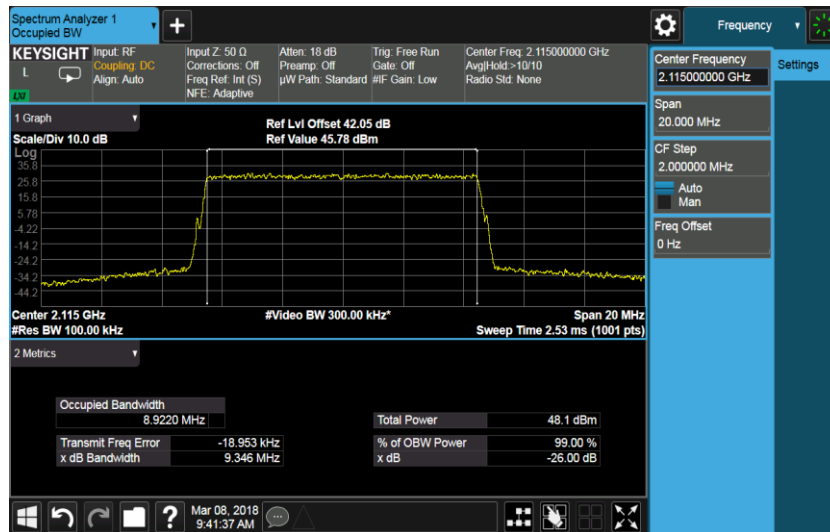
Port C, QPSK 5.0M Channel position M



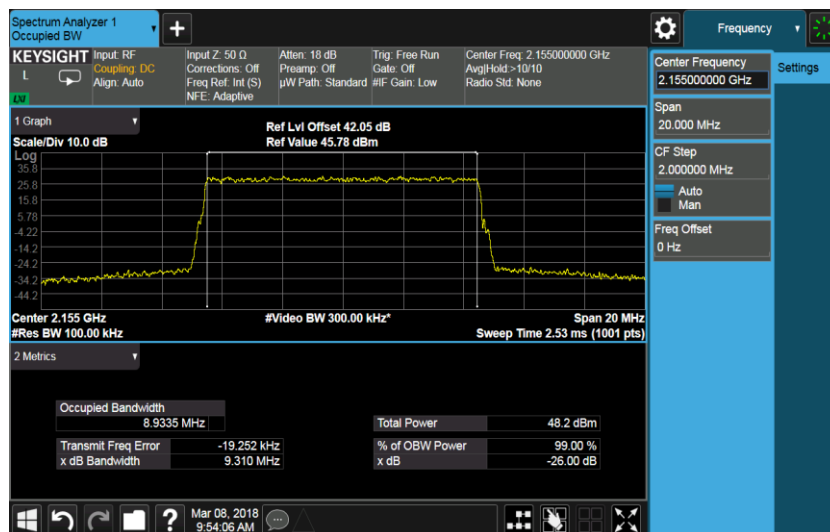
Port C, QPSK 5.0M Channel position T



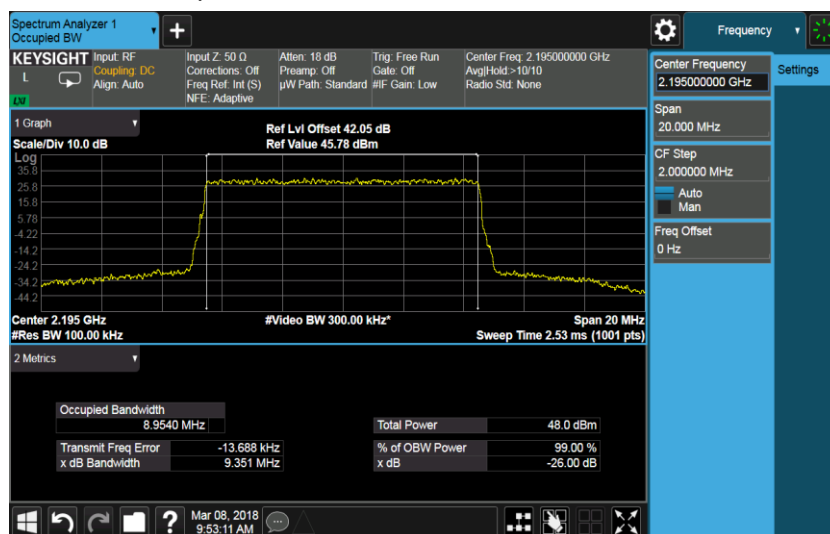
Port C, QPSK 10.0M Channel position B



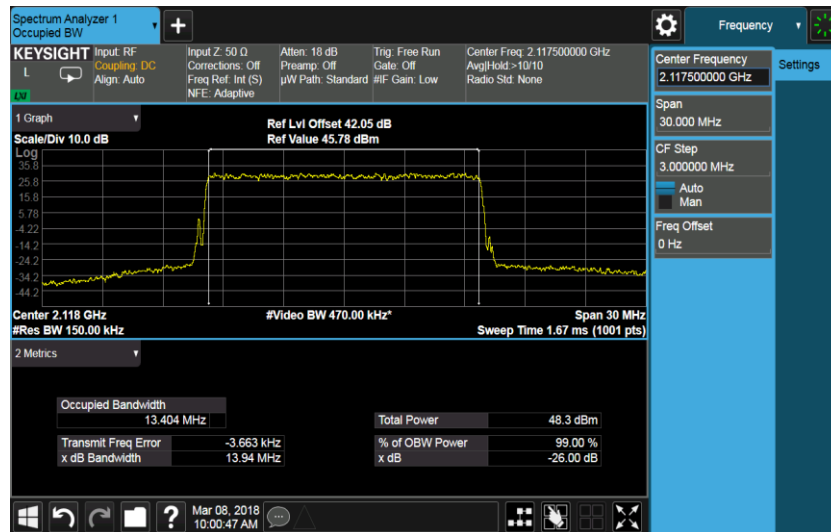
Port C, QPSK 10.0M Channel position M



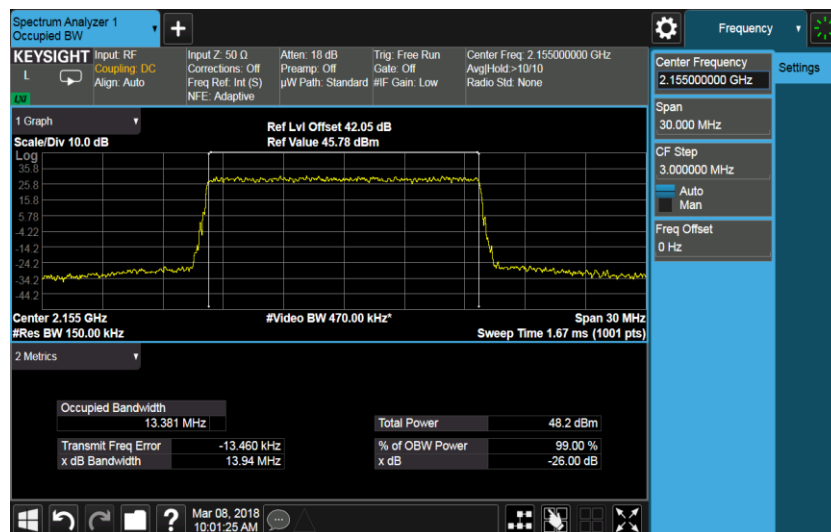
Port C, QPSK 10.0M Channel position T



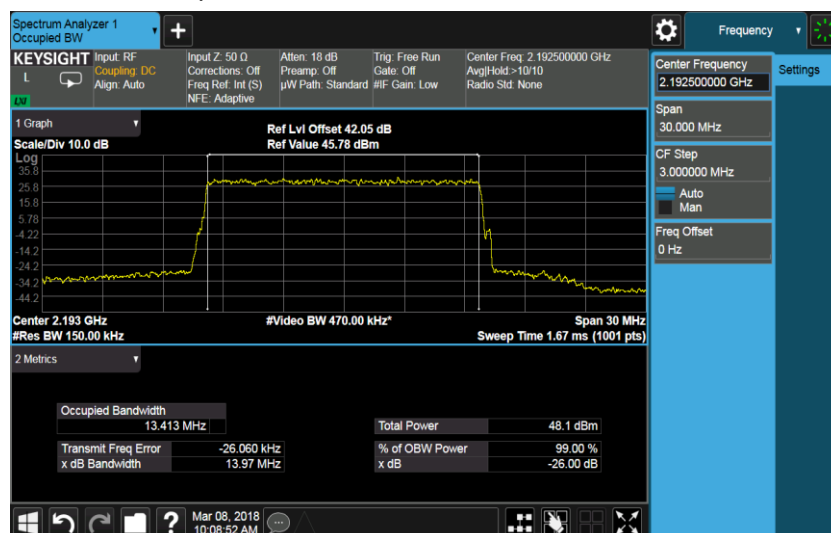
Port C, QPSK 15.0M Channel position B



Port C, QPSK 15.0M Channel position M



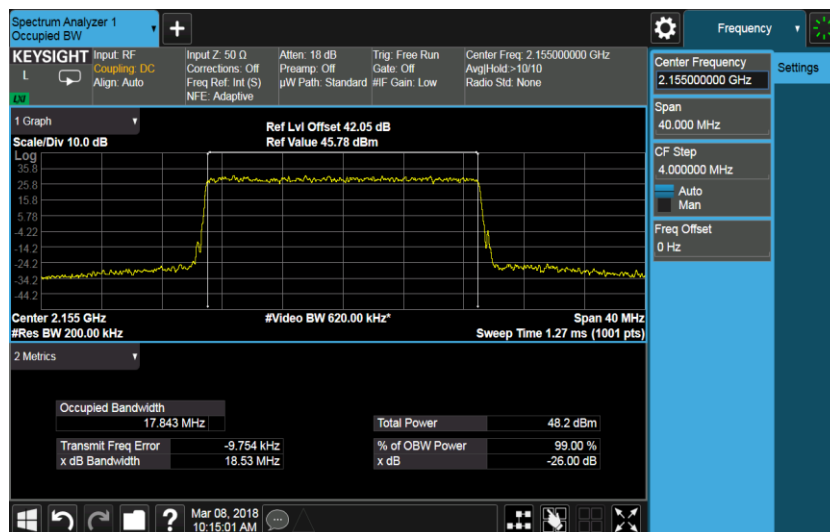
Port C, QPSK 15.0M Channel position T



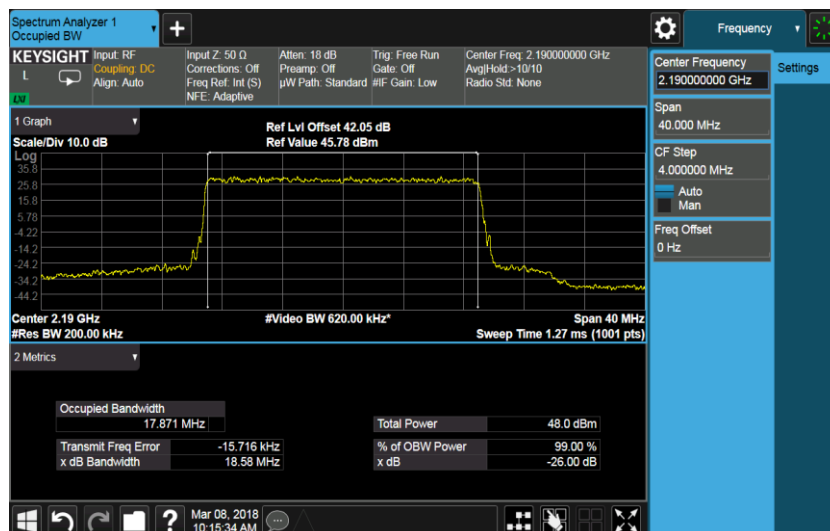
Port C, QPSK 20.0M Channel position B



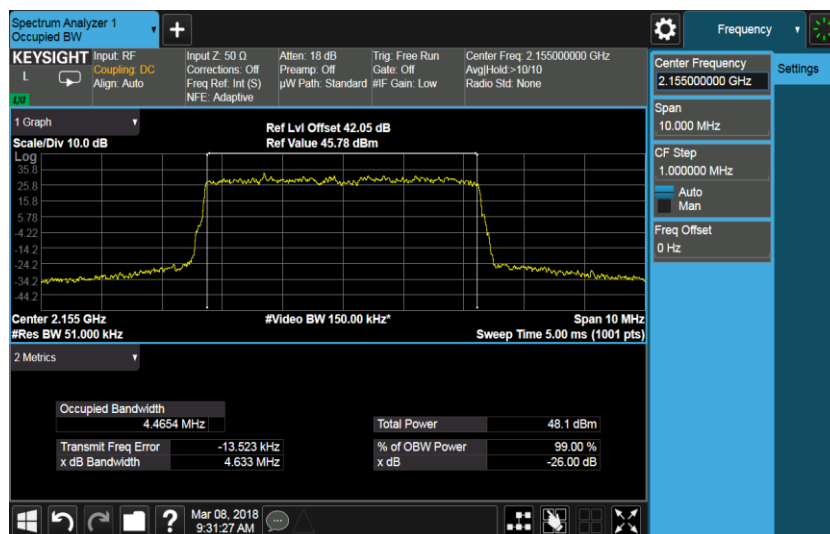
Port C, QPSK 20.0M Channel position M



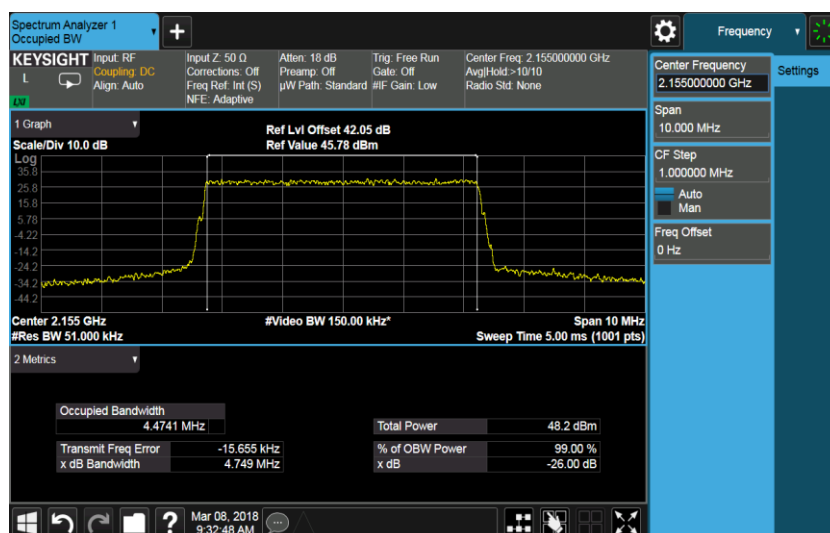
Port C, QPSK 20.0M Channel position T



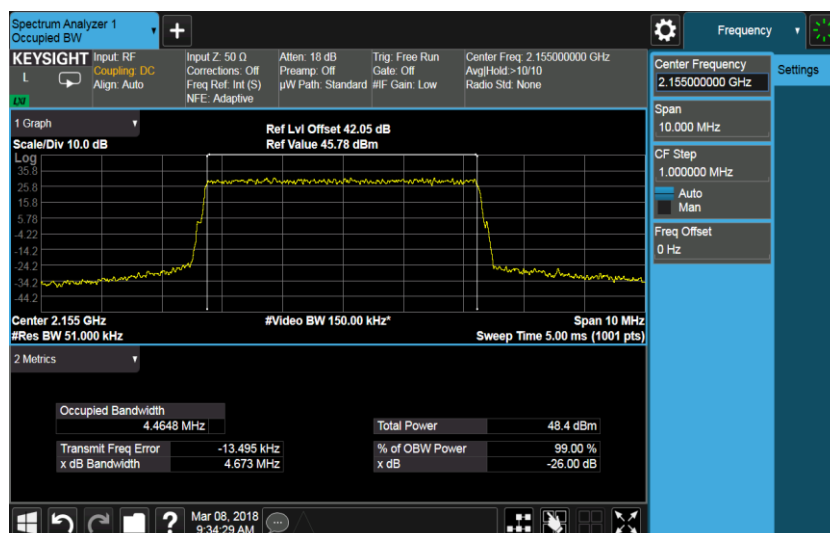
Port C, 16QAM 5.0M Channel Position M



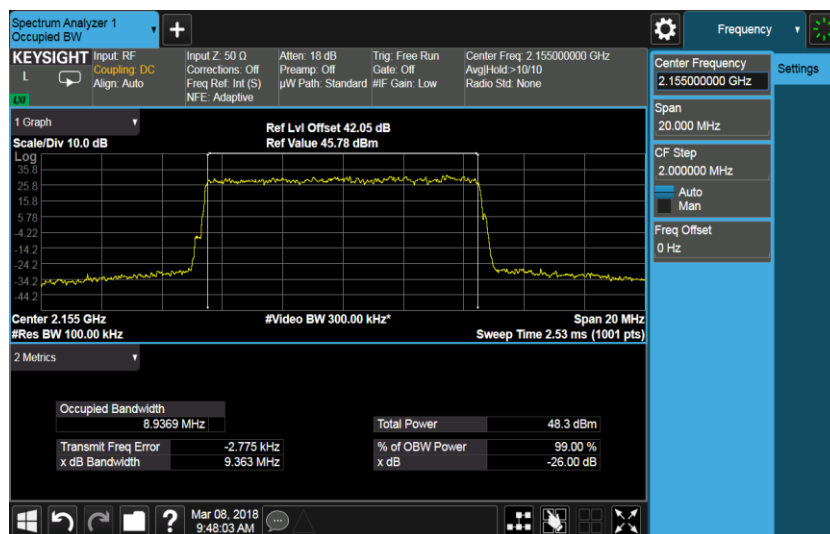
Port C, 64QAM 5.0M Channel Position M



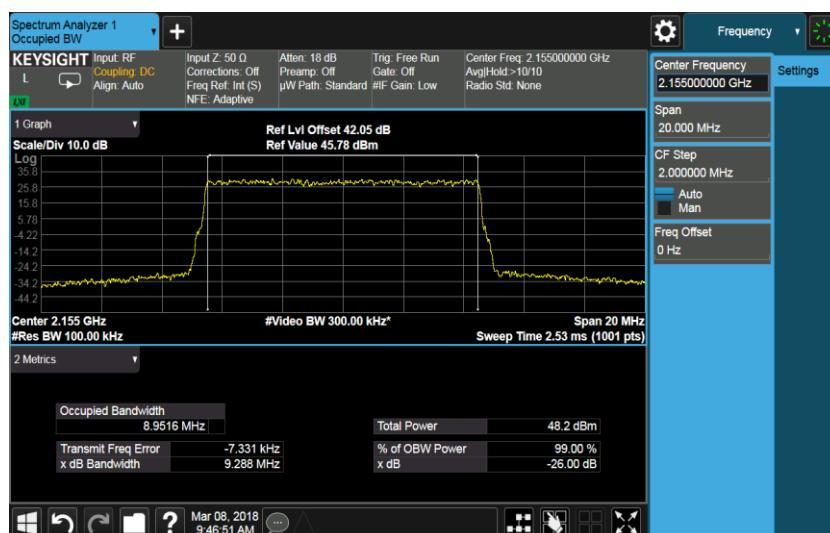
Port C, 256QAM 5.0M Channel Position M



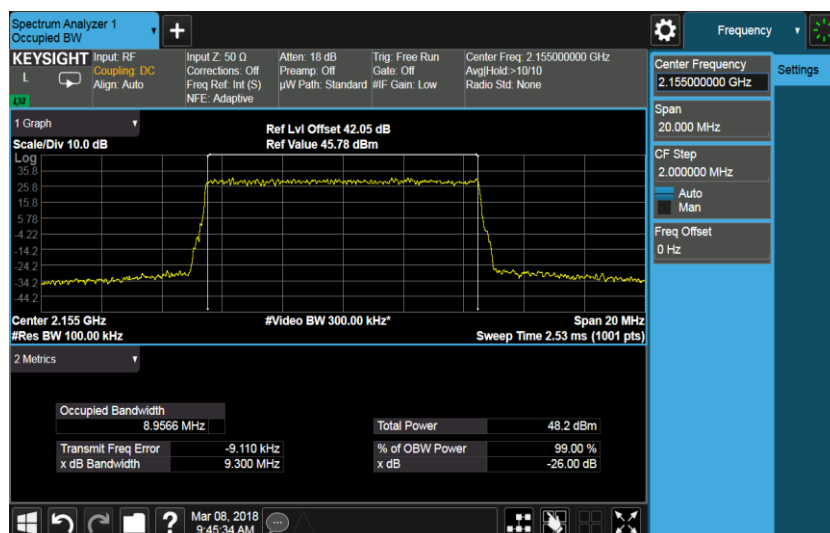
Port C, 16QAM 10.0M Channel Position M



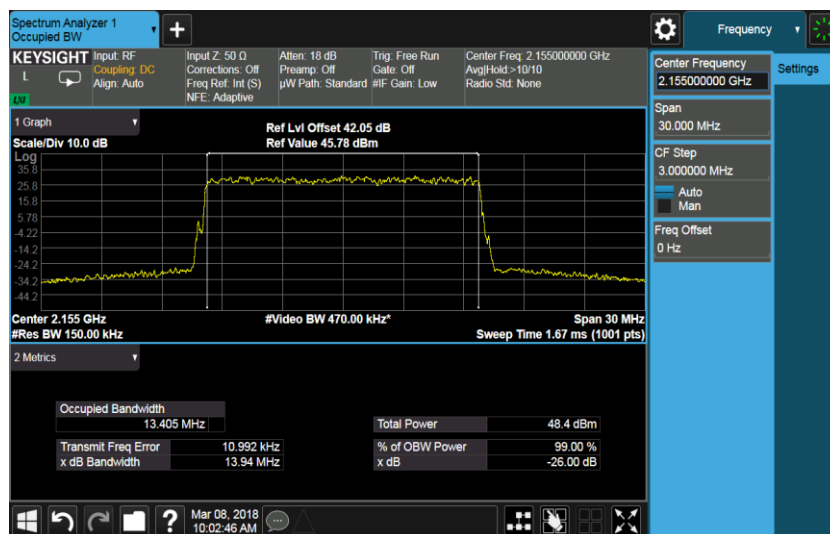
Port C, 64QAM 10.0M Channel Position M



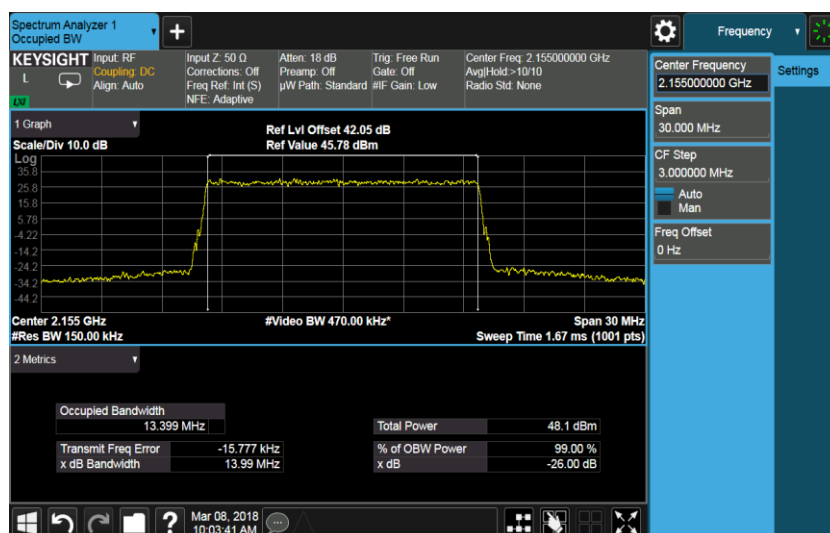
Port C, 256QAM 10.0M Channel Position M



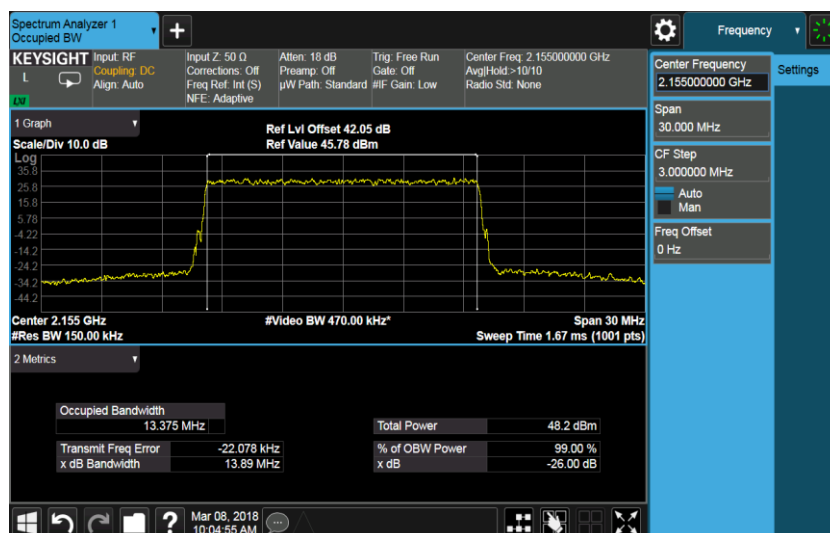
Port C, 16QAM 15.0M Channel Position M



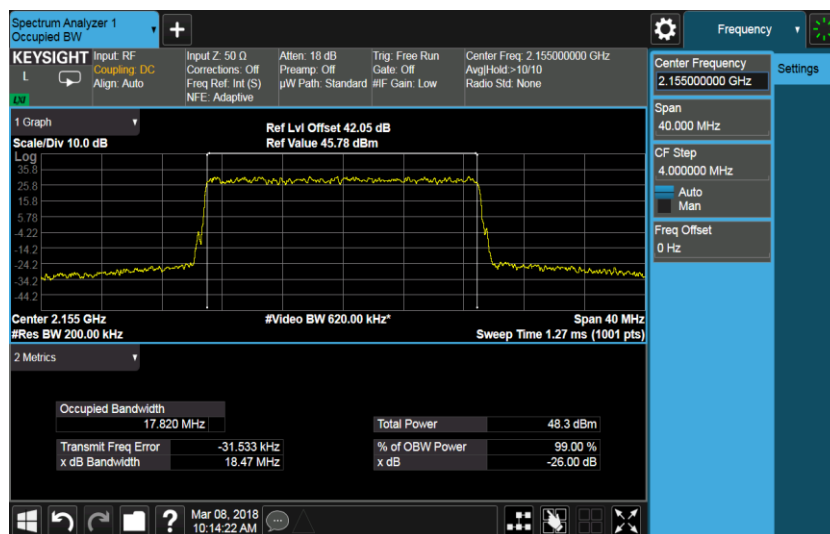
Port C, 64QAM 15.0M Channel Position M



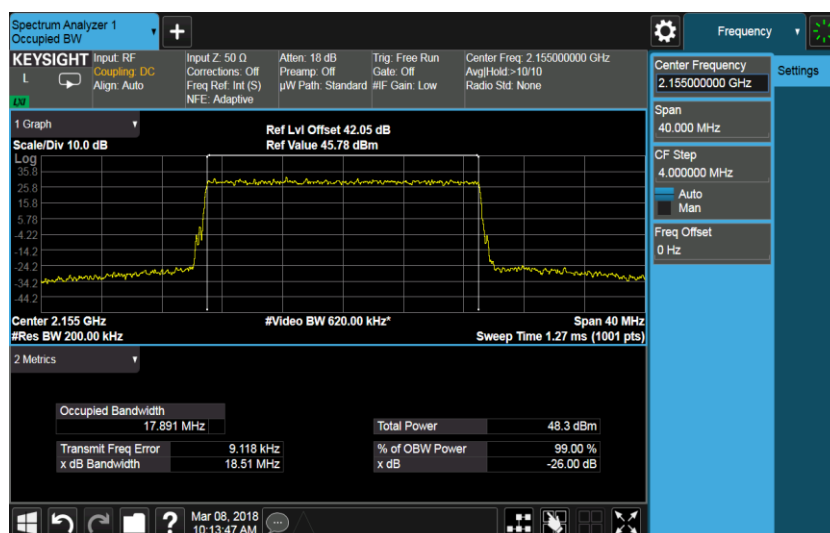
Port C, 256QAM 15.0M Channel Position M



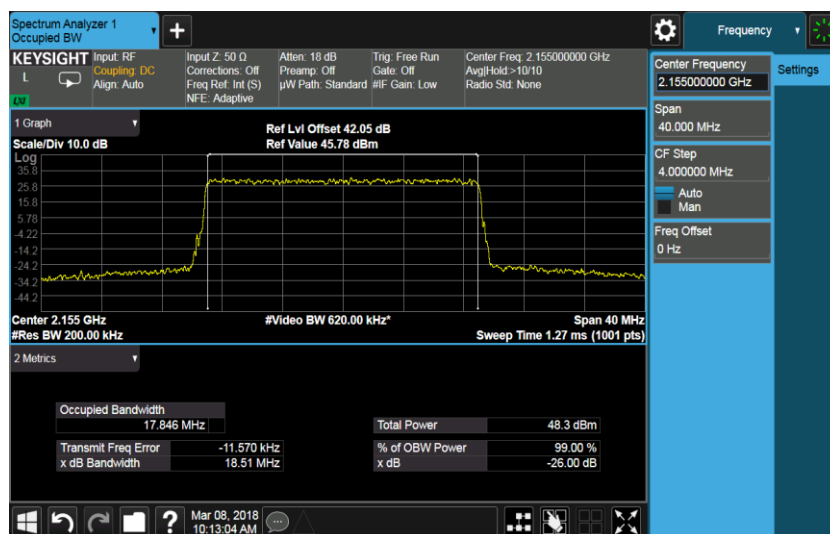
Port C, 16QAM 20.0M Channel Position M



Port C, 64QAM 20.0M Channel Position M



Port C, 256QAM 20.0M Channel Position M



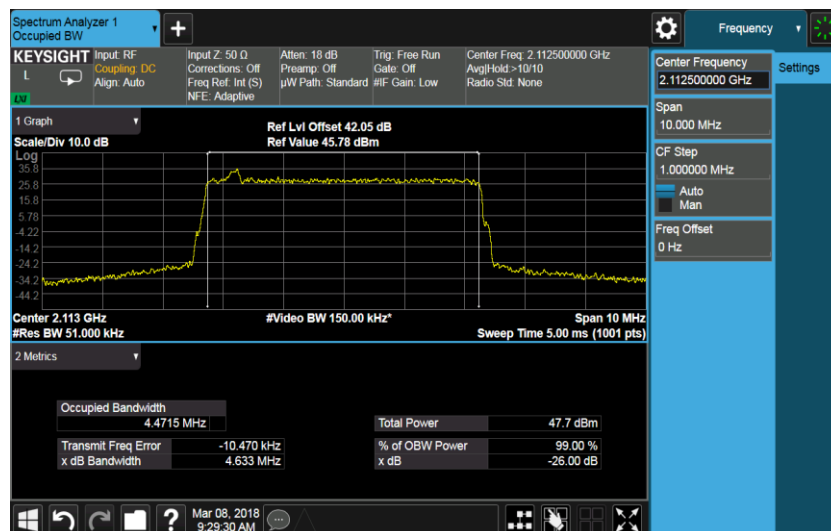
Configuration NB-IoT-InBand-1C
-26dBc Occupied Bandwidth

Antenna	Modulation / Bandwidth	Occupied Bandwidth (MHz)		
		Channel Position B	Channel Position M	Channel Position T
C	QPSK/ 5.0 MHz	4.63	4.64	4.66
	QPSK/ 10.0 MHz	9.31	9.24	9.22
	QPSK/ 15.0 MHz	13.83	13.84	13.84
	QPSK/ 20.0 MHz	18.52	18.52	18.42

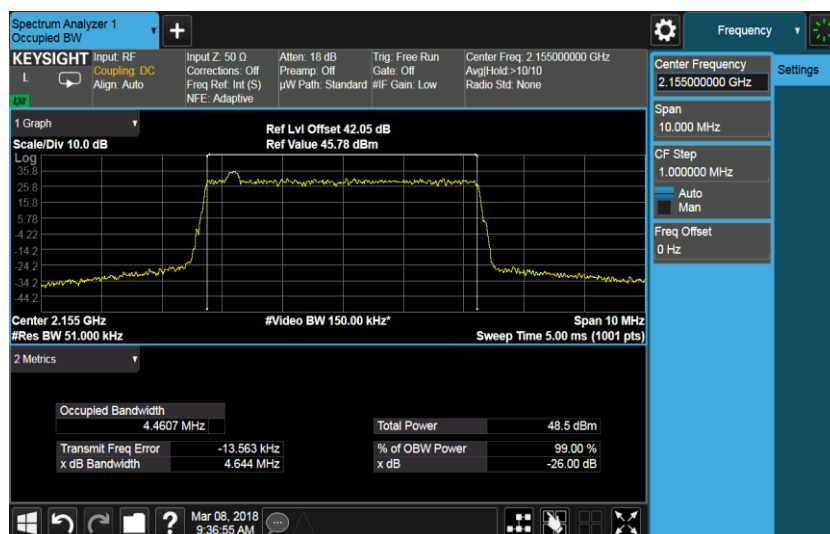
99% Occupied Bandwidth

Antenna	Modulation / Bandwidth	Occupied Bandwidth (MHz)		
		Channel Position B	Channel Position M	Channel Position T
C	QPSK/ 5.0 MHz	4.47	4.46	4.46
	QPSK/ 10.0 MHz	8.92	8.95	8.91
	QPSK/ 15.0 MHz	13.39	13.40	13.38
	QPSK/ 20.0 MHz	17.82	17.85	17.83

Port C, QPSK 5.0M Channel position B



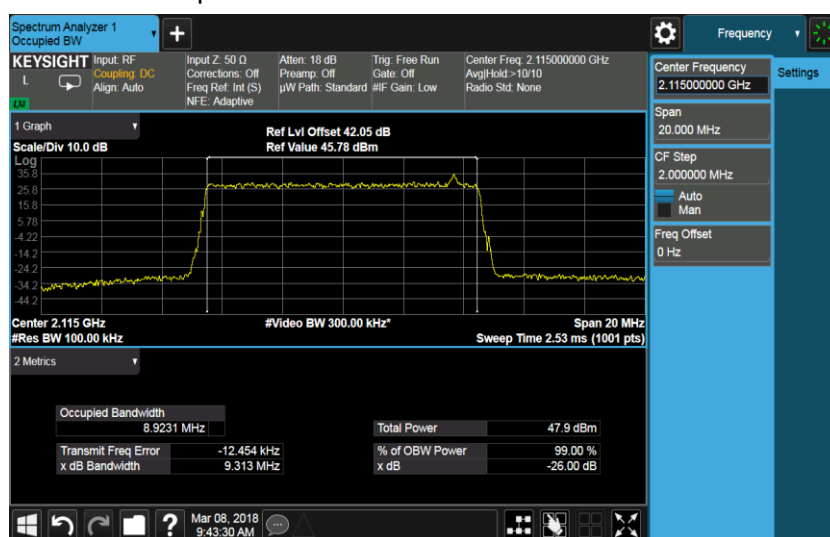
Port C, QPSK 5.0M Channel position M



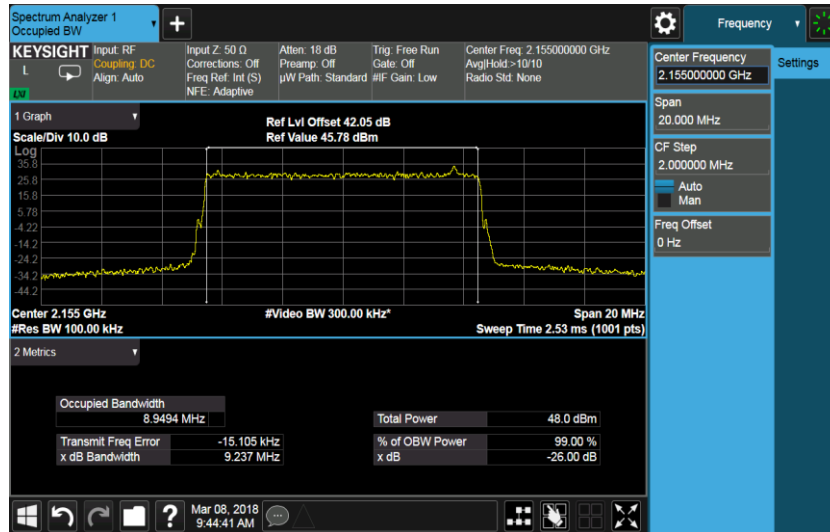
Port C, QPSK 5.0M Channel position T



Port C, QPSK 10.0M Channel position B



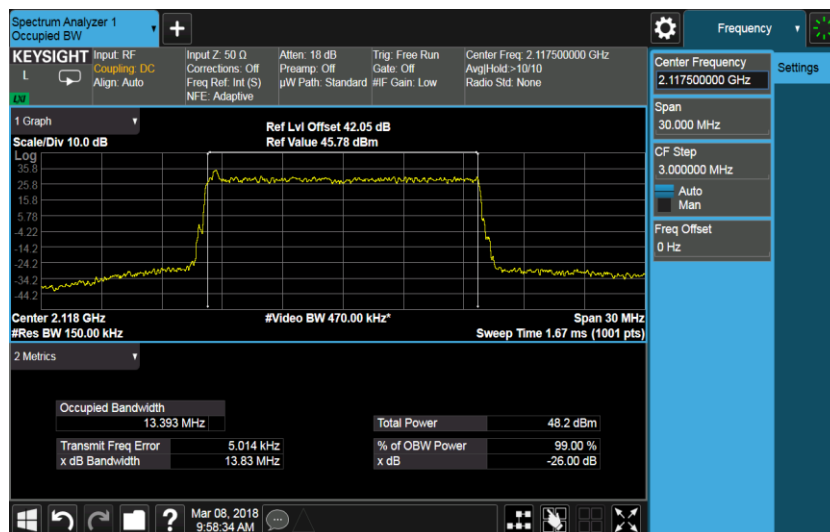
Port C, QPSK 10.0M Channel position M



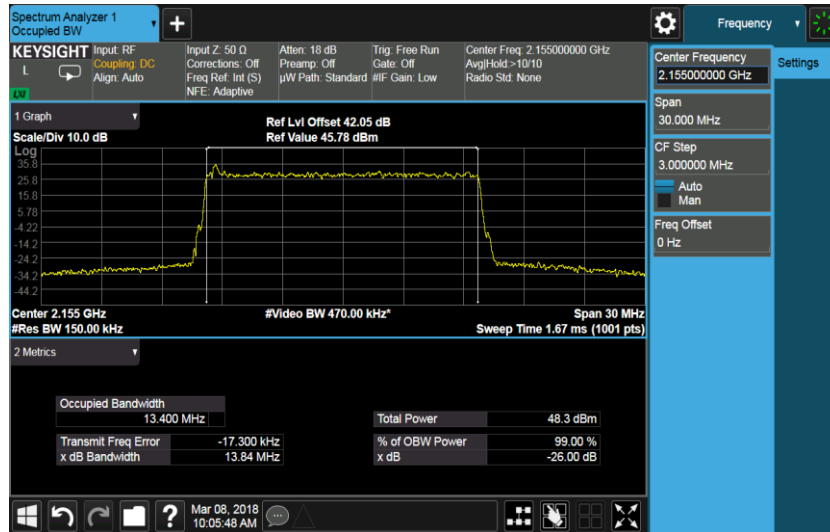
Port C, QPSK 10.0M Channel position T



Port C, QPSK 15.0M Channel position B



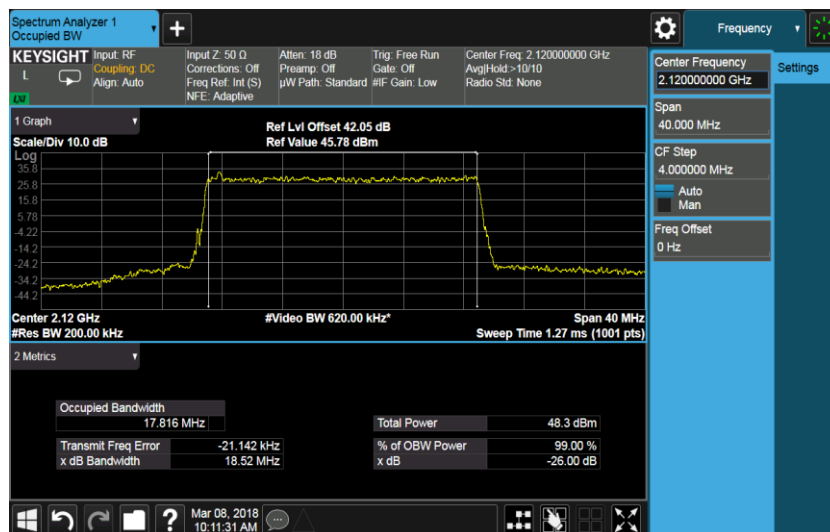
Port C, QPSK 15.0M Channel position M



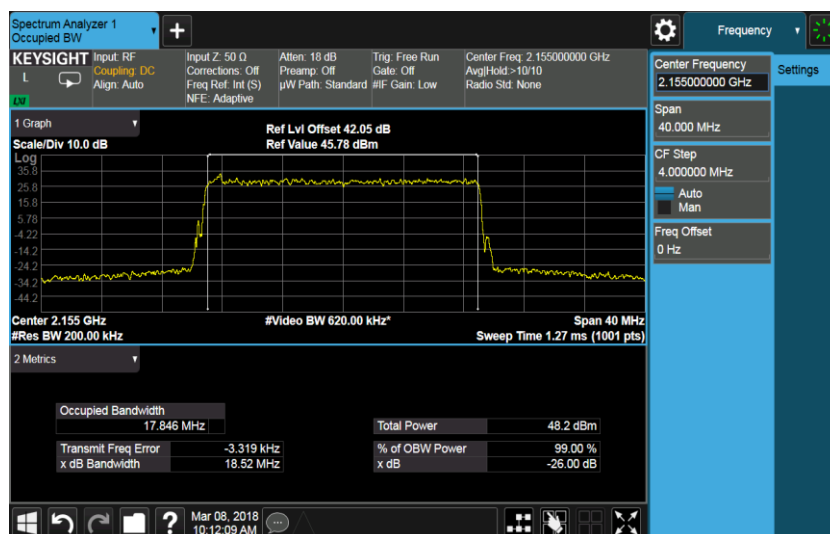
Port C, QPSK 15.0M Channel position T



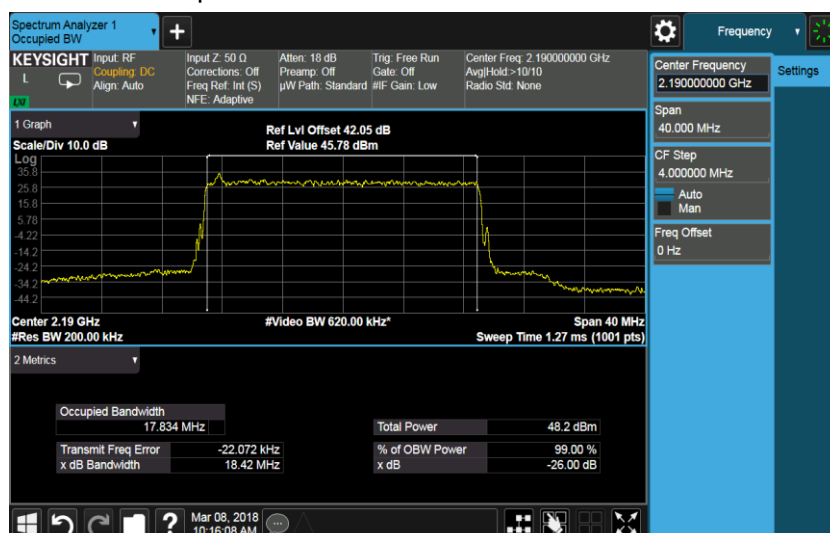
Port C, QPSK 20.0M Channel position B



Port C, QPSK 20.0M Channel position M



Port C, QPSK 20.0M Channel position T



A.3 Spurious Emissions at Band Edge

A.3.1 Reference

FCC CFR 47 Part 27, Clause 27.53(h)

A.3.2 Method of measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

For MIMO mode configurations, the limit was adjusted with a correction of -6.02dB $[10\log 4]$ by using the Measure and Add $10\log(N)$ dB technique according to FCC KDB 662911 D01 accounting for simultaneous transmission from all antenna ports.

According to FCC rules, in the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental

emission of the transmitter may be employed and a RBW of 1MHz for measurements of emissions > 1MHz away from the band edges. The limit was adjusted with -13.01dB $[10\log(50/1000)]$ to compensate for the reduce measurement bandwidth 50KHz for emission more than 1MHz away from the band edges. For MIMO mode, the limit of -32.03dBm was used for emission more than 1MHz away from the band edges. For Non-MIMO mode, the limit of -26.01dBm was used for emission more than 1MHz away from the band edges. Spectrum analyzer detector was set as RMS.

A.3.3 Measurement limit

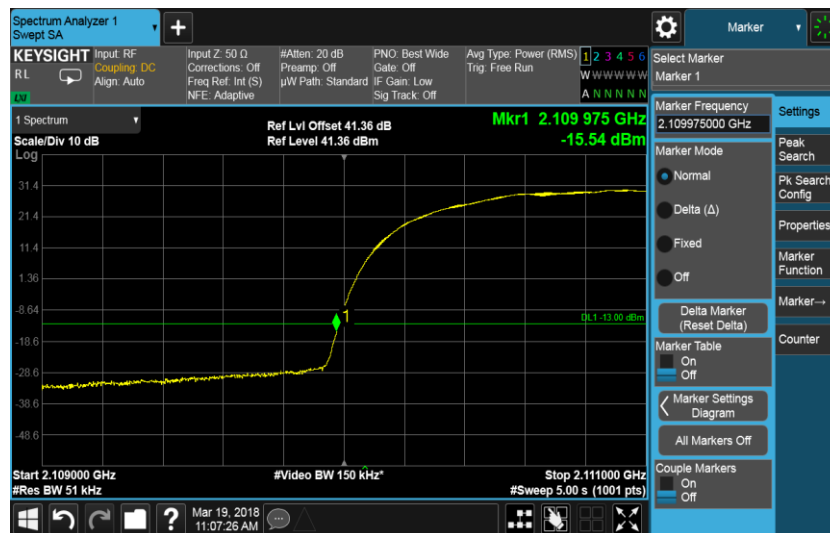
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

A.3.4 Measurement result

Configuration WCDMA-1C-BE

Modulation	Band Edge Frequency	Channel Bandwidth	RBW (KHz)	Limit (dBm)
QPSK	Channel Position B 2110.0MHz	5.0MHz	51	-13.00
	Channel Position T 2155.0MHz	5.0MHz	51	-13.00
16QAM	Channel Position B 2110.0MHz	5.0MHz	51	-19.02
	Channel Position T 2155.0MHz	5.0MHz	51	-19.02

Port C, Channel Position B, QPSK



The channel power of 50kHz for 2109.975MHz is -20.24dBm, which is within the limit of -13.00dBm.





Port C, Channel Position T, QPSK

