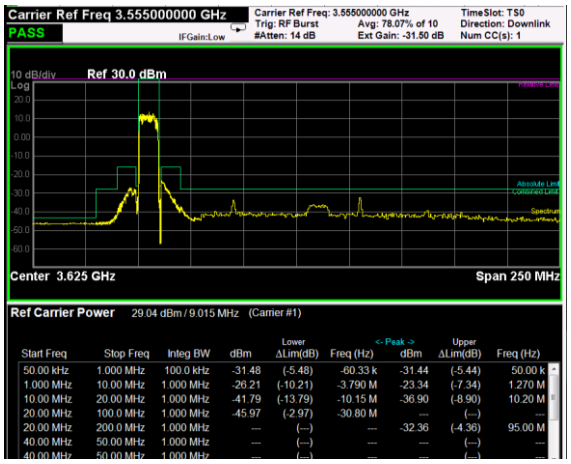
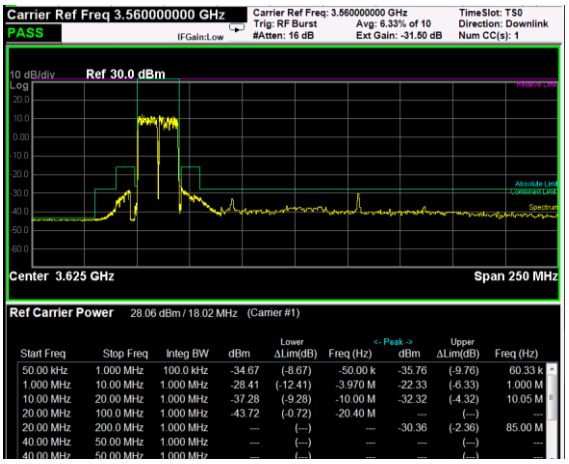
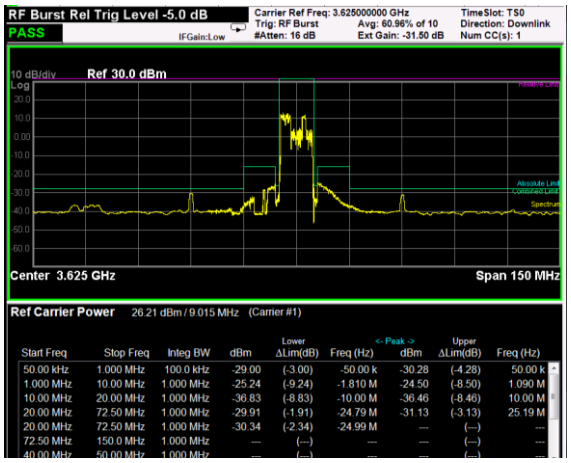


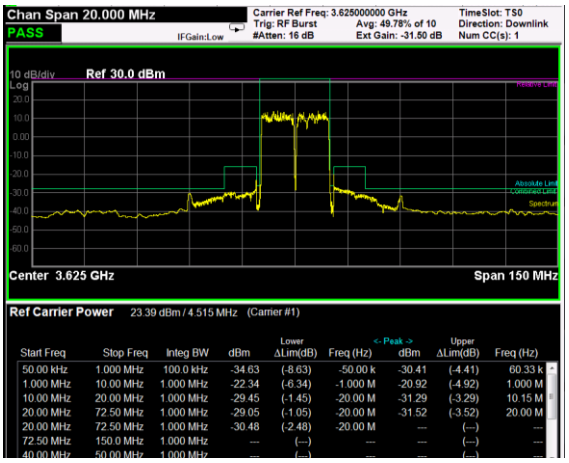
Low Band Edge, 1 Carrier,
Modulation: 256QAM, BW=10MHz



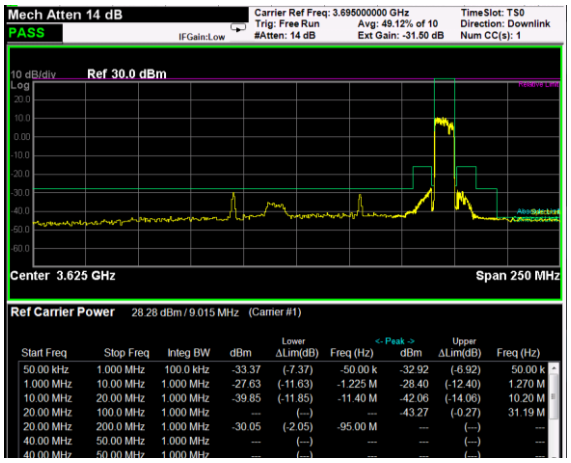
Low Band Edge, 2 Carrier,
Modulation: 256QAM, BW=10MHz



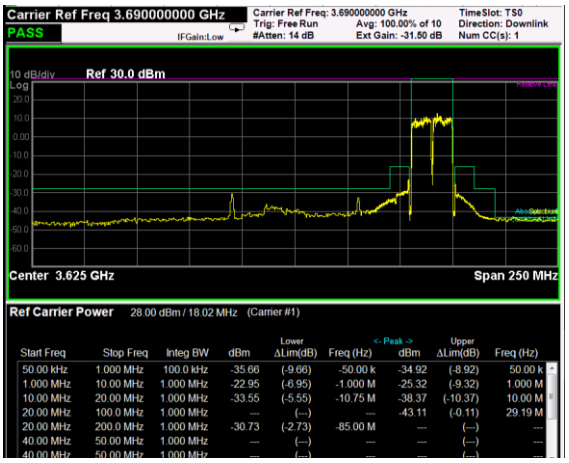
Middle Band Edge, 1 Carrier,
Modulation: 256QAM, BW=10MHz



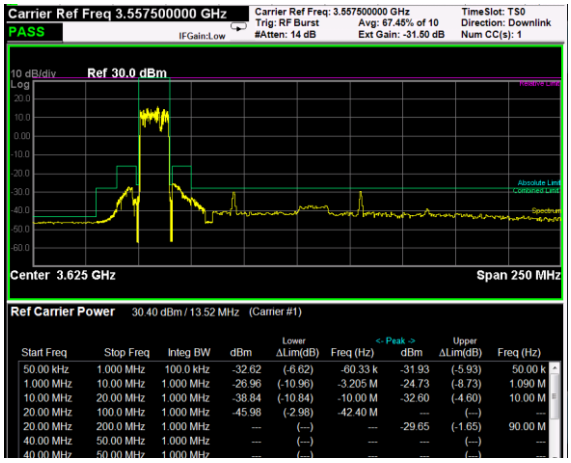
Middle Band Edge, 2 Carrier,
Modulation: 256QAM, BW=10MHz



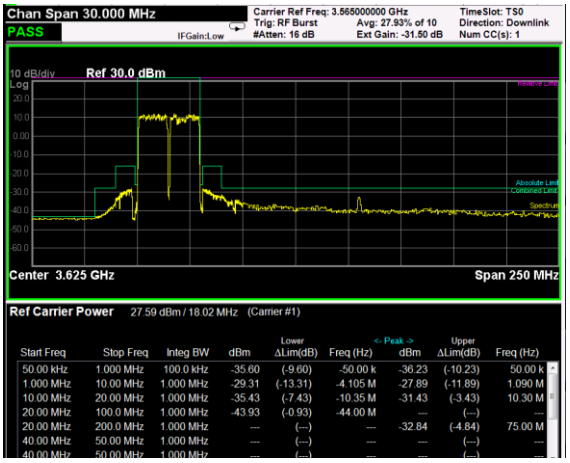
High Band Edge, 1 Carrier,
Modulation: 256QAM, BW=10MHz



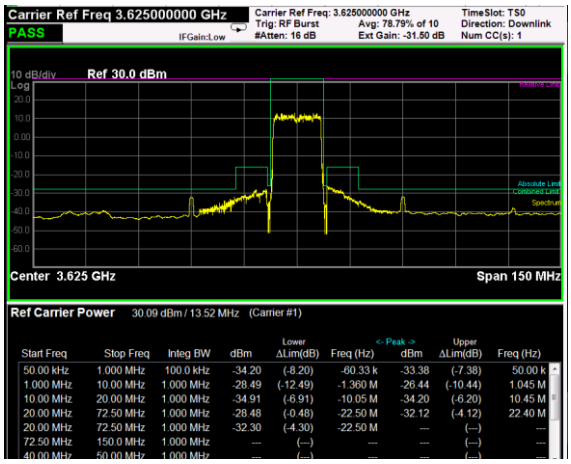
High Band Edge, 2 Carrier,
Modulation: 256QAM, BW=10MHz



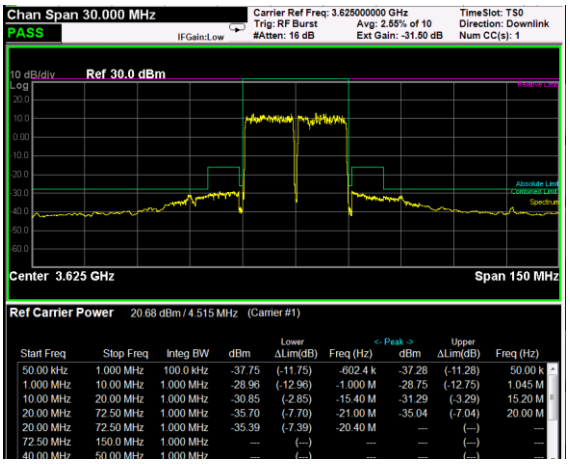
Low Band Edge, 1 Carrier,
Modulation: QPSK, BW=15MHz



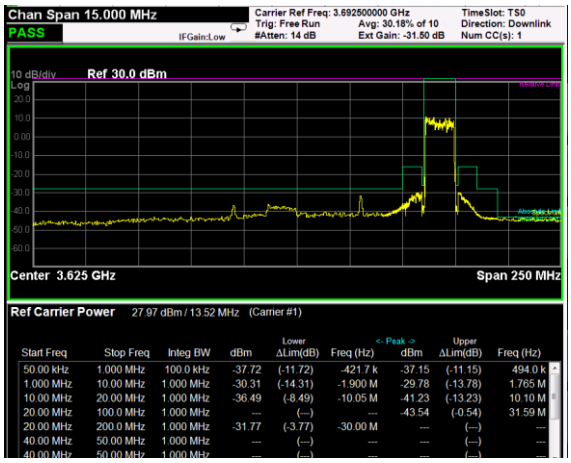
Low Band Edge, 2 Carrier,
Modulation: QPSK, BW=15MHz



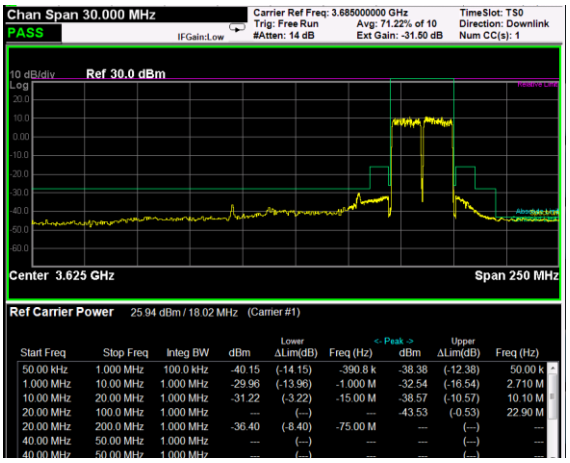
Middle Band Edge, 1 Carrier,
Modulation: QPSK, BW=15MHz



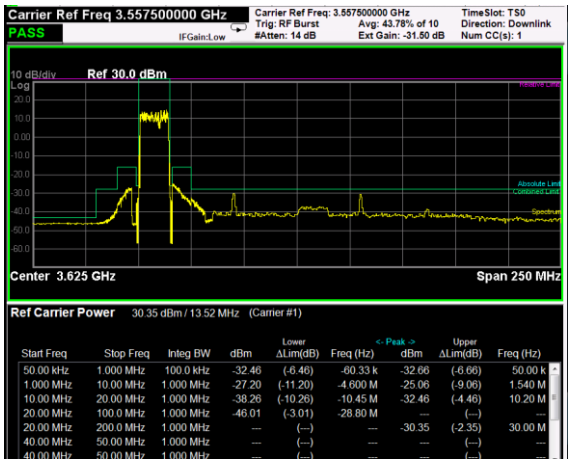
Middle Band Edge, 2 Carrier,
Modulation: QPSK, BW=15MHz



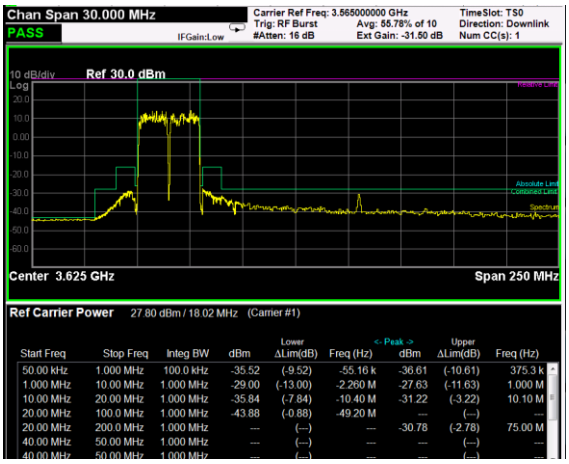
High Band Edge, 1 Carrier,
Modulation: QPSK, BW=15MHz



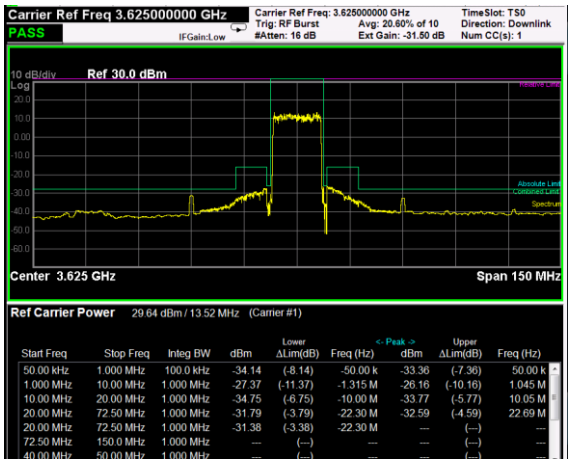
High Band Edge, 2 Carrier,
Modulation: QPSK, BW=15MHz



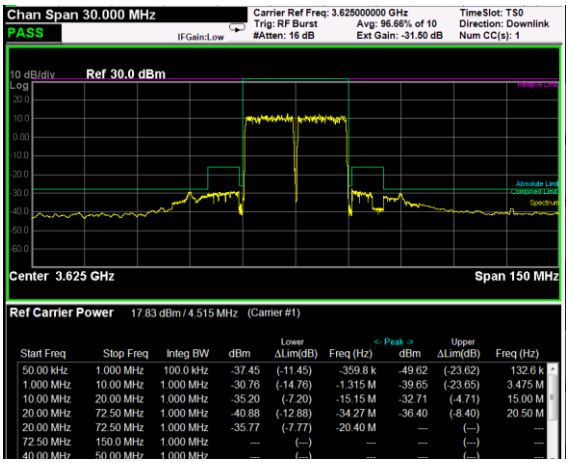
Low Band Edge, 1 Carrier,
Modulation: 16QAM, BW=15MHz



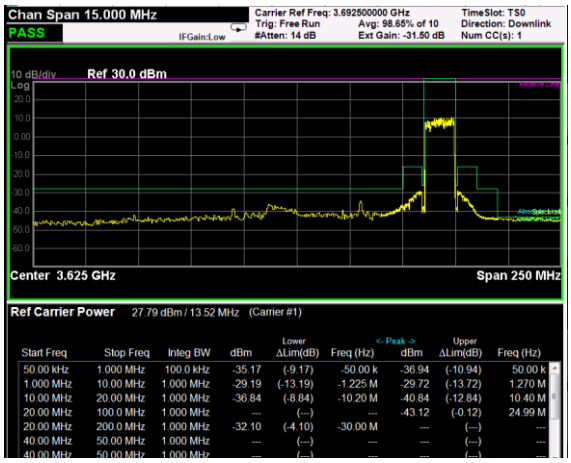
Low Band Edge, 2 Carrier,
Modulation: 16QAM, BW=15MHz



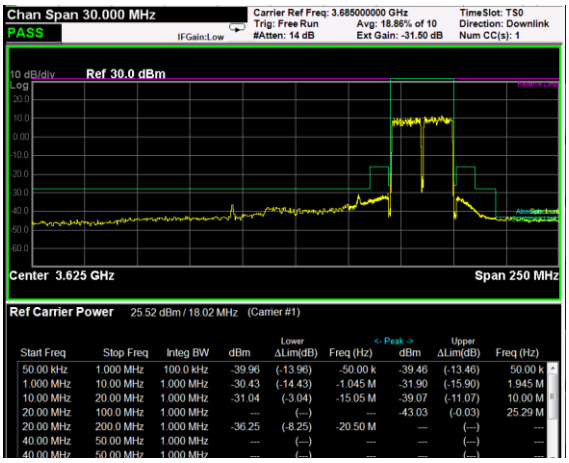
Middle Band Edge, 1 Carrier,
Modulation: 16QAM, BW=15MHz



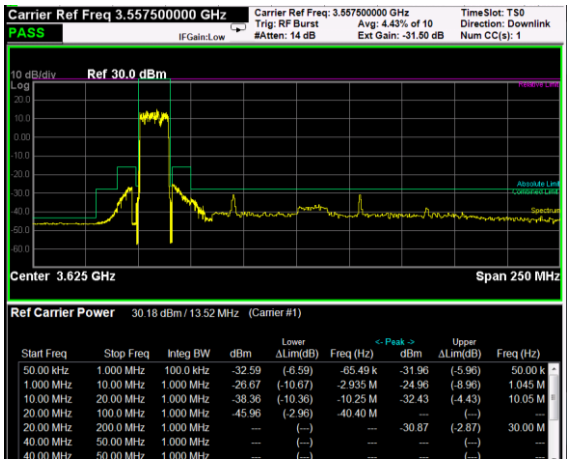
Middle Band Edge, 2 Carrier,
Modulation: 16QAM, BW=15MHz



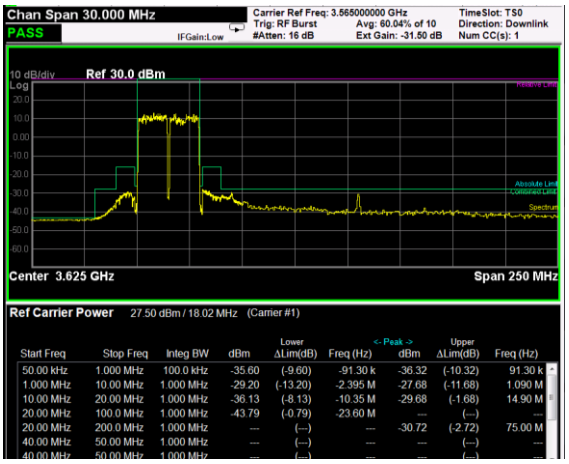
High Band Edge, 1 Carrier,
Modulation: 16QAM, BW=15MHz



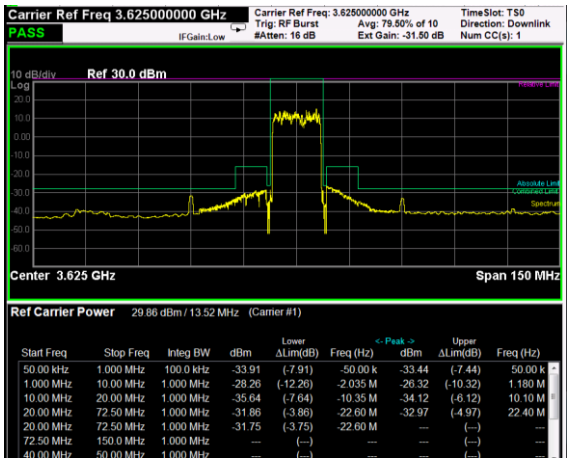
High Band Edge, 2 Carrier,
Modulation: 16QAM, BW=15MHz



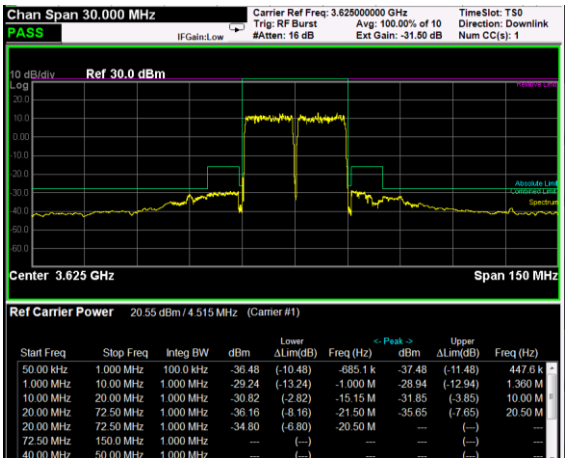
Low Band Edge, 1 Carrier,
Modulation: 64QAM, BW=15MHz



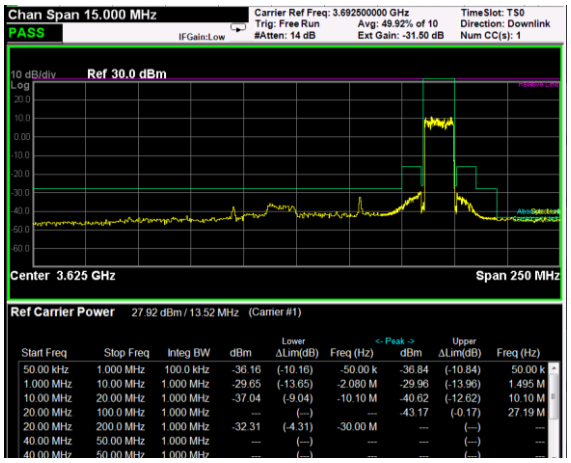
Low Band Edge, 2 Carrier,
Modulation: 64QAM, BW=15MHz



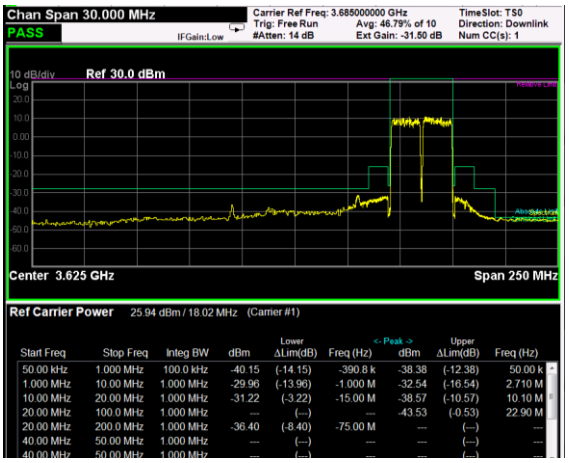
Middle Band Edge, 1 Carrier,
Modulation: 64QAM, BW=15MHz



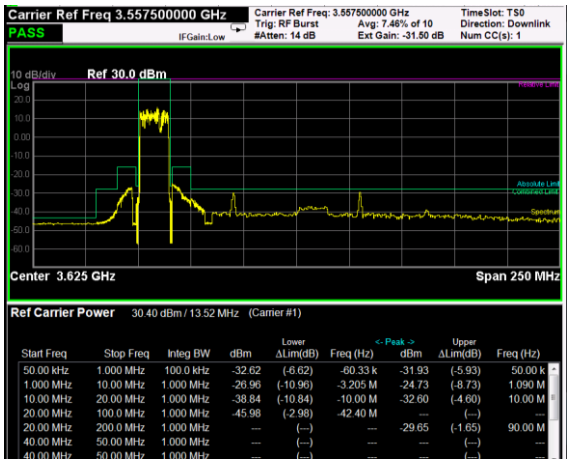
Middle Band Edge, 2 Carrier,
Modulation: 64QAM, BW=15MHz



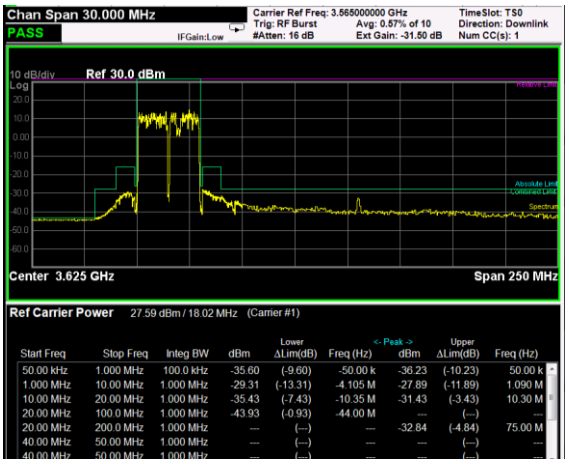
High Band Edge, 1 Carrier,
Modulation: 64QAM, BW=15MHz



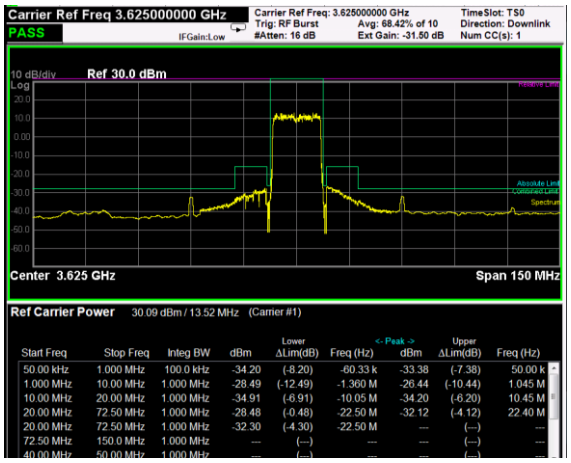
High Band Edge, 2 Carrier,
Modulation: 64QAM, BW=15MHz



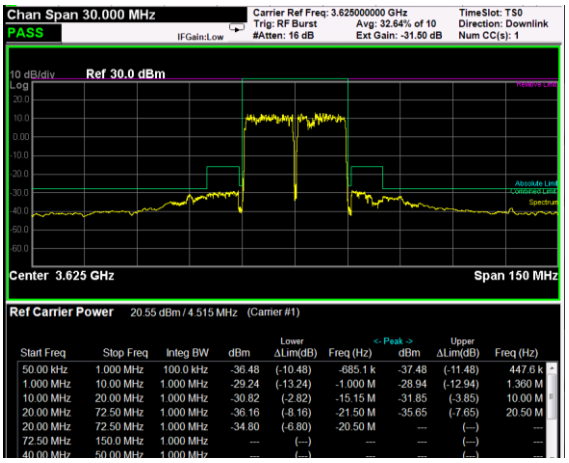
Low Band Edge, 1 Carrier,
Modulation: 256QAM, BW=15MHz



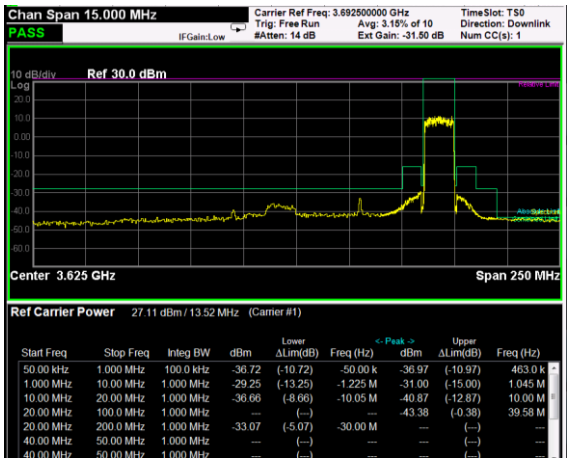
Low Band Edge, 2 Carrier,
Modulation: 256QAM, BW=15MHz



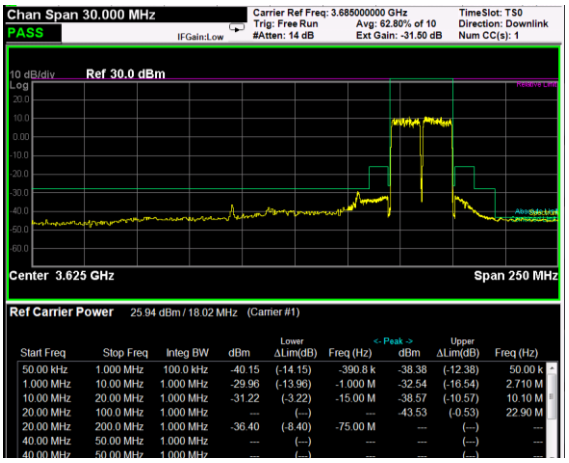
Middle Band Edge, 1 Carrier,
Modulation: 256QAM, BW=15MHz



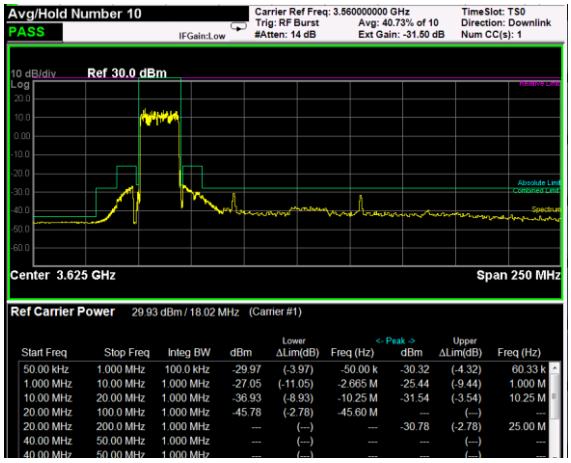
Middle Band Edge, 2 Carrier,
Modulation: 256QAM, BW=15MHz



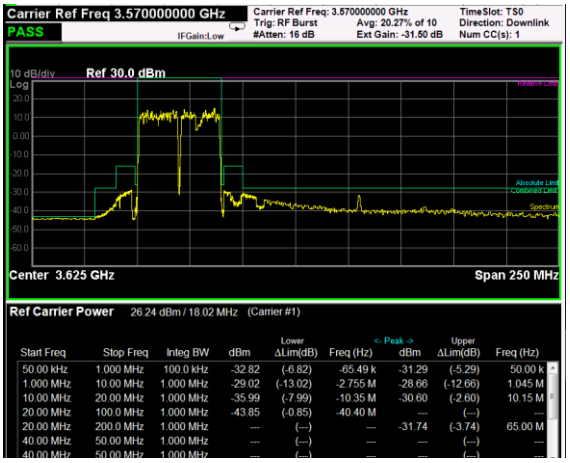
High Band Edge, 1 Carrier,
Modulation: 256QAM, BW=15MHz



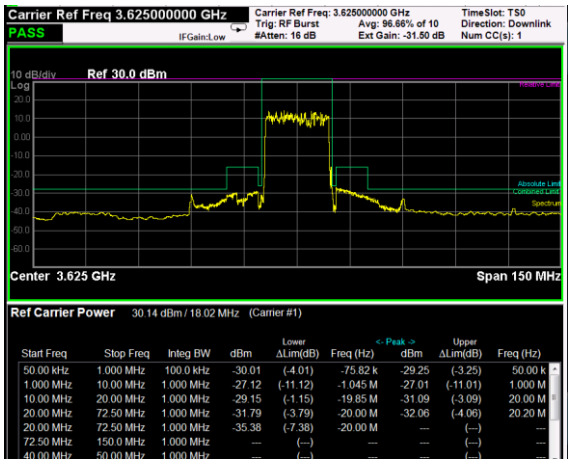
High Band Edge, 2 Carrier,
Modulation: 256QAM, BW=15MHz



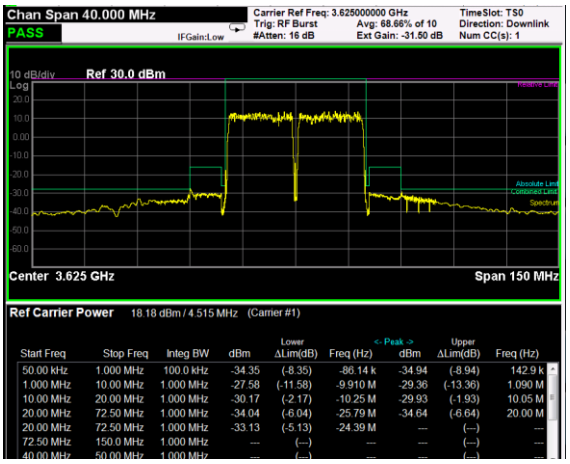
Low Band Edge, 1 Carrier,
Modulation: QPSK, BW=20MHz



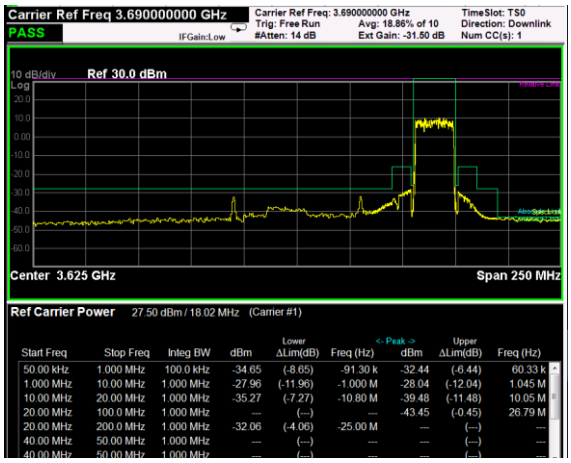
Low Band Edge, 2 Carrier,
Modulation: QPSK, BW=20MHz



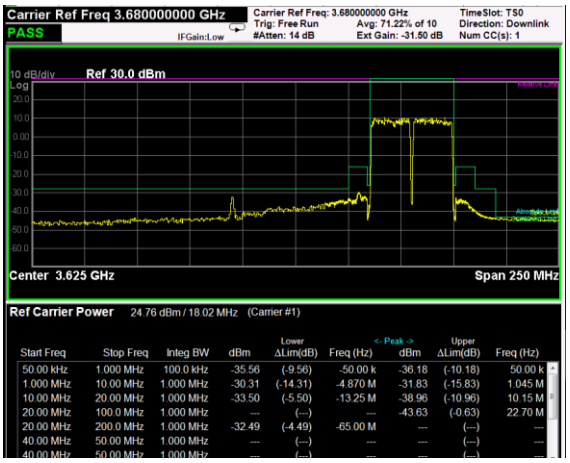
Middle Band Edge, 1 Carrier,
Modulation: QPSK, BW=20MHz



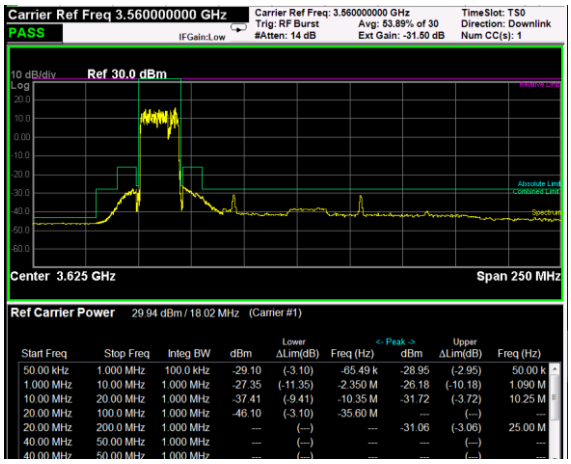
Middle Band Edge, 2 Carrier,
Modulation: QPSK, BW=20MHz



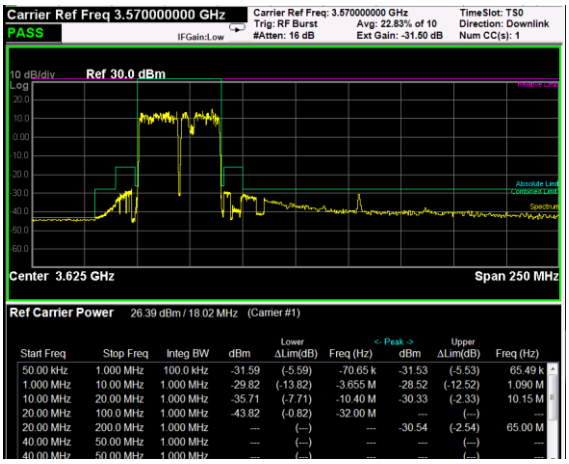
High Band Edge, 1 Carrier,
Modulation: QPSK, BW=20MHz



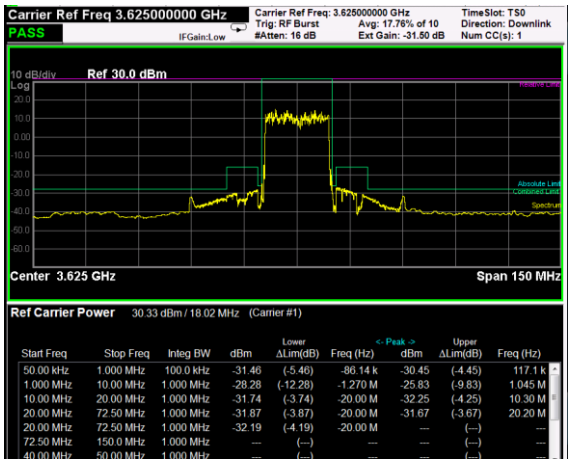
High Band Edge, 2 Carrier,
Modulation: QPSK, BW=20MHz



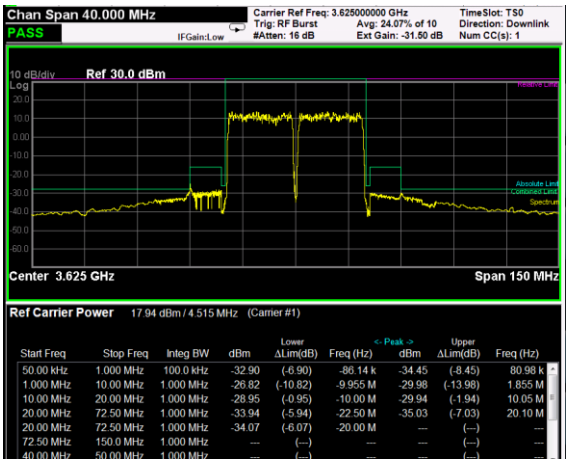
Low Band Edge, 1 Carrier,
Modulation: 16QAM, BW=20MHz



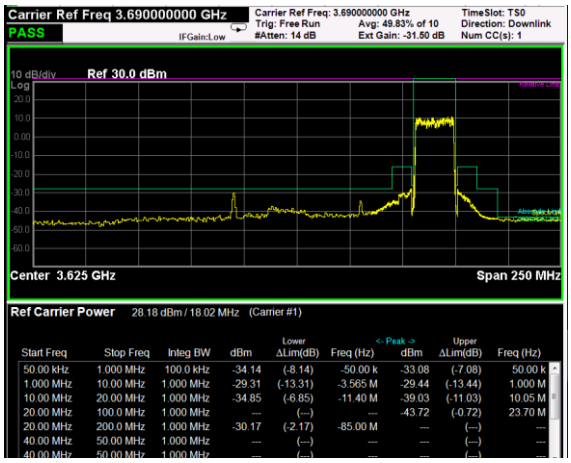
Low Band Edge, 2 Carrier,
Modulation: 16QAM, BW=20MHz



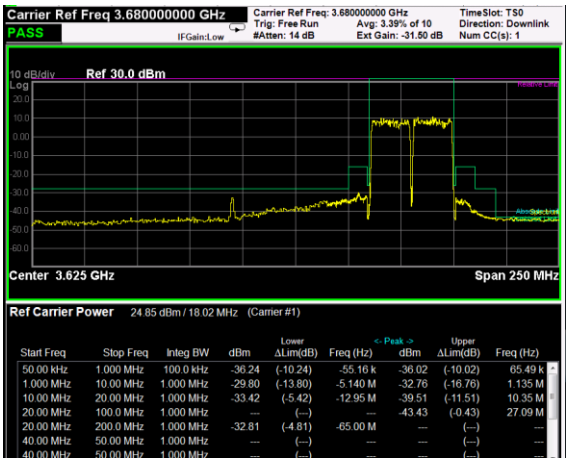
Middle Band Edge, 1 Carrier,
Modulation: 16QAM, BW=20MHz



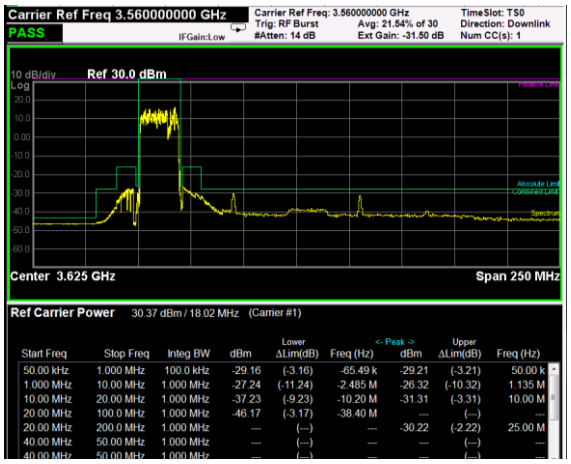
Middle Band Edge, 2 Carrier,
Modulation: 16QAM, BW=20MHz



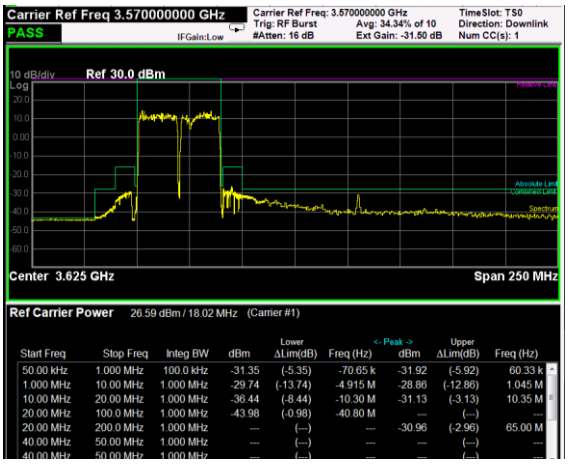
High Band Edge, 1 Carrier,
Modulation: 16QAM, BW=20MHz



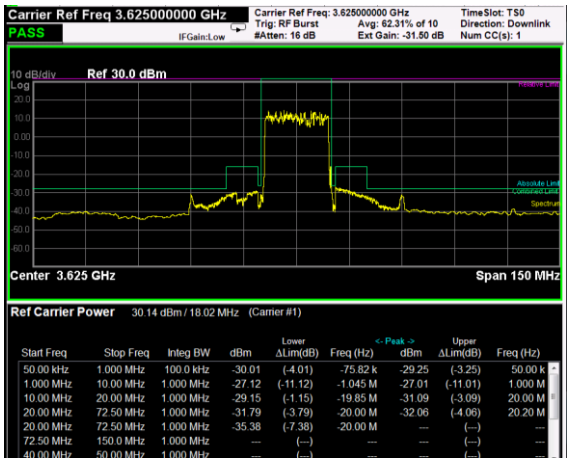
High Band Edge, 2 Carrier,
Modulation: 16QAM, BW=20MHz



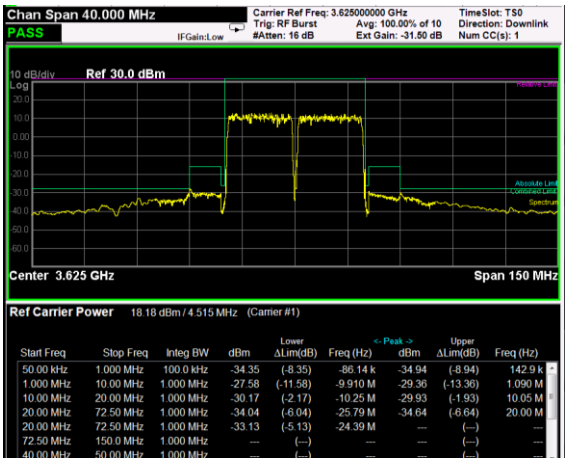
Low Band Edge, 1 Carrier,
Modulation: 64QAM, BW=20MHz



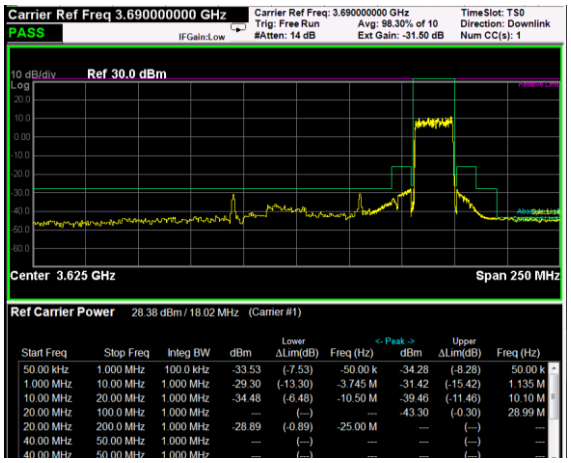
Low Band Edge, 2 Carrier,
Modulation: 64QAM, BW=20MHz



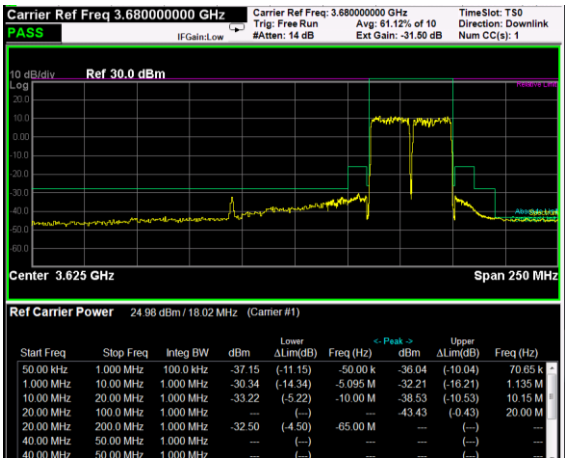
Middle Band Edge, 1 Carrier,
Modulation: 64QAM, BW=20MHz



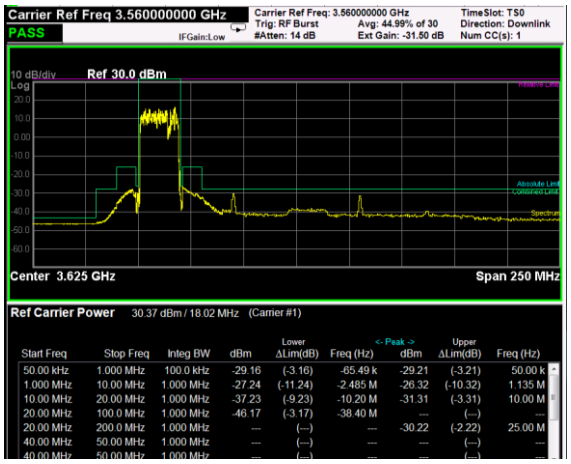
Middle Band Edge, 2 Carrier,
Modulation: 64QAM, BW=20MHz



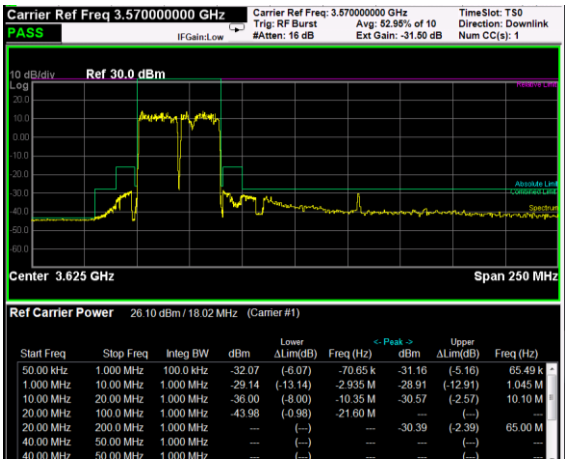
High Band Edge, 1 Carrier,
Modulation: 64QAM, BW=20MHz



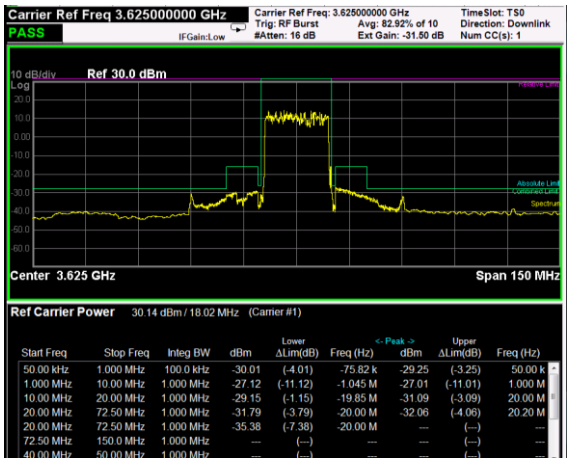
High Band Edge, 2 Carrier,
Modulation: 64QAM, BW=20MHz



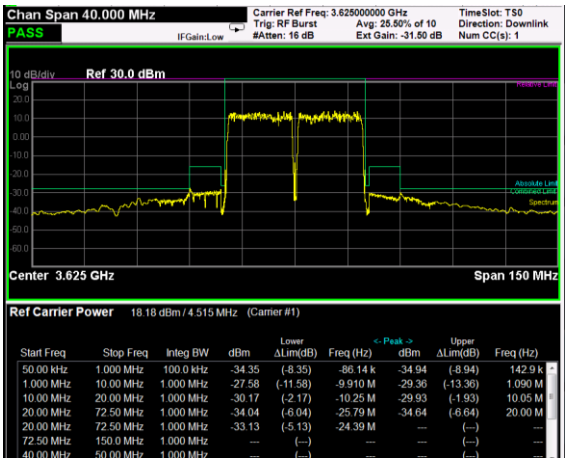
Low Band Edge, 1 Carrier,
Modulation: 256QAM, BW=20MHz



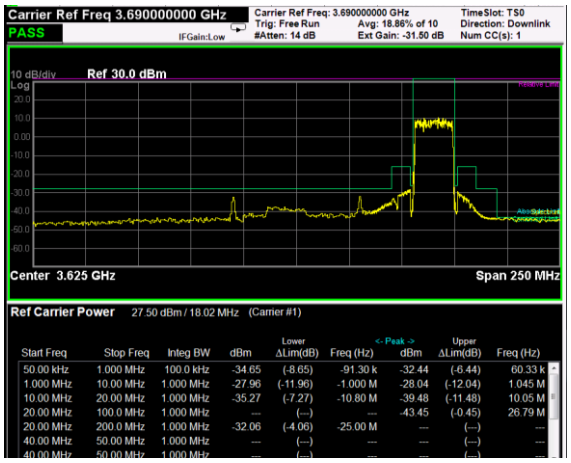
Low Band Edge, 2 Carrier,
Modulation: 256QAM, BW=20MHz



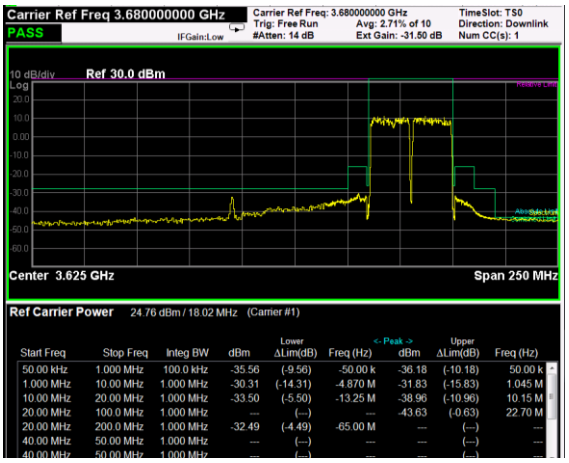
Middle Band Edge, 1 Carrier,
Modulation: 256QAM, BW=20MHz



Middle Band Edge, 2 Carrier,
Modulation: 256QAM, BW=20MHz



High Band Edge, 1 Carrier,
Modulation: 256QAM, BW=20MHz



High Band Edge, 2 Carrier,
Modulation: 256QAM, BW=20MHz

Clause 96.41(e)(1)(2)(3) Radiated Spurious emissions

(e) *3.5 GHz Emissions and Interference Limits—*

(1) *General protection levels.* Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed −13 dBm/MHz
within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed −25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

(2) *Additional protection levels.* Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

(3) *Measurement procedure.* (i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and
adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full reference bandwidth (*i.e.,* 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Test date: 04/03/2019 to 05/10/2019

Test results: Pass

Special notes

Clause 96.41(e)(1)(2)(3) Radiated spurious emissions, continued

Test data

The D.U.T. was positioned according to the radiated emissions set-up

The D.U.T. antenna connector was terminated by a 50 Ω shielded dummy load.

The spectrum was searched from 30 MHz to 1 GHz (RBW 100 kHz) & 1 GHz (RBW 1 MHz) to the tenth harmonic of the carrier.

There were no emissions detected above the noise floor which was at least 20 dB below the specification limit.

Spurious emissions measurement results:

Frequency (MHz)	Polarization. V/H	Field strength (dBm)	Limit (dBm)	Margin (dB)
Low channel				
First Channel	V/H	Negligible	-40	
Mid channel				
3625	V/H	Negligible	-40	
High channel				
Last Channel	V/H	Negligible	-40	

Note: Field strength includes correction factor of antenna, cable loss, amplifier, and attenuators where applicable.