Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3500.01	102.490	102.451

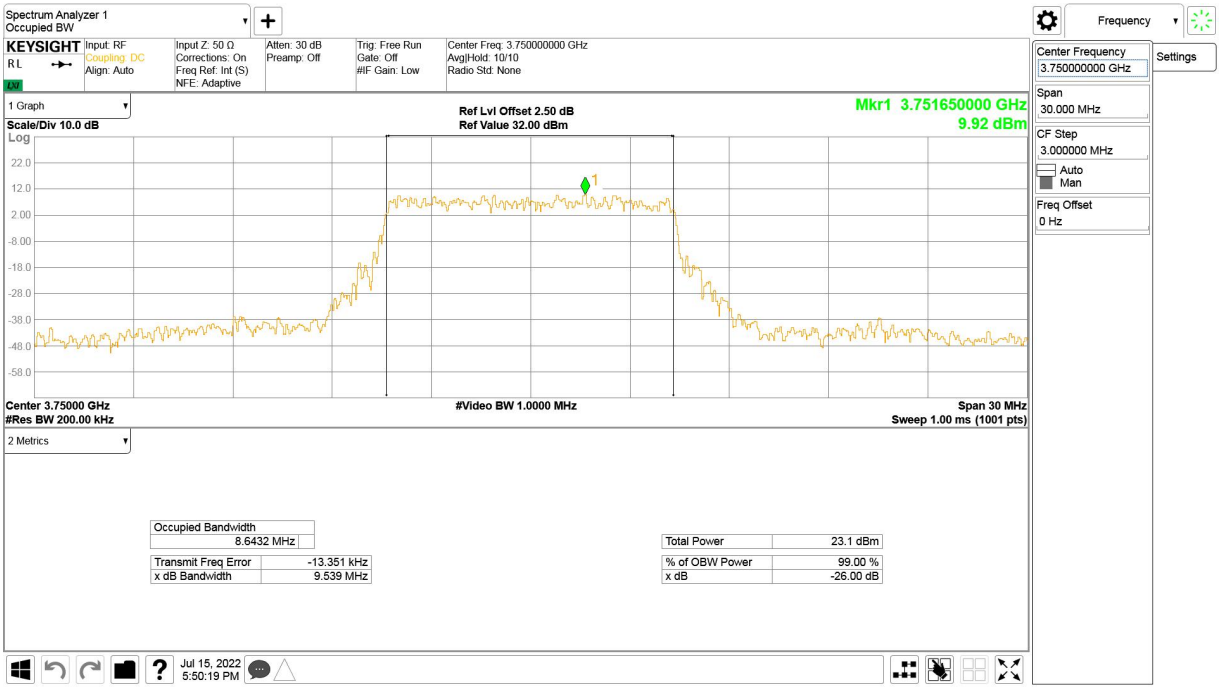
n78L,100MHz Bandwidth,CP QPSK (-26dBc BW)

n78L,100MHz Bandwidth,CP 16QAM (-26dBc BW)

n78H-MIMO,10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3750	9.539	9.738

n78H,10MHz Bandwidth,CP QPSK (-26dBc BW)



n78H,10MHz Bandwidth,CP 16QAM (-26dBc BW)

n78H-MIMO,15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3750	14.817	14.551

n78H,15MHz Bandwidth,CP QPSK (-26dBc BW)

n78H,15MHz Bandwidth,CP 16QAM (-26dBc BW)

n78H-MIMO,20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3750	19.864	20.030

n78H,20MHz Bandwidth,CP QPSK (-26dBc BW)

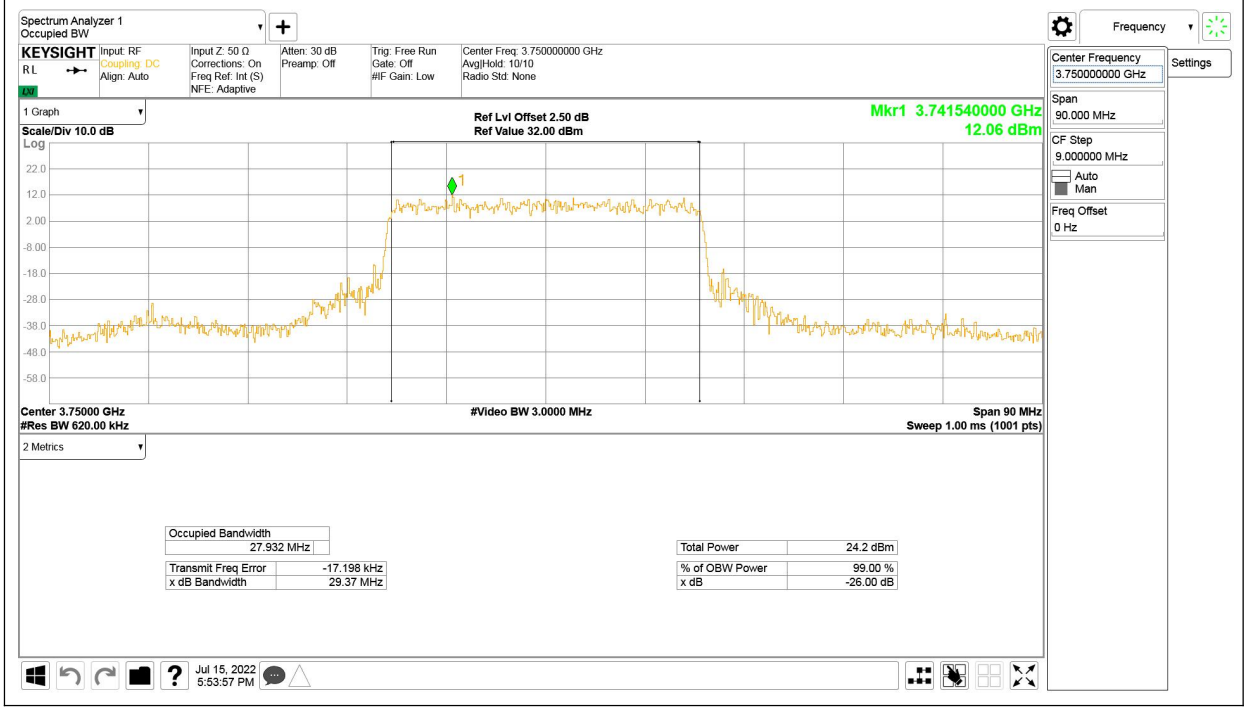
n78H,20MHz Bandwidth,CP 16QAM (-26dBc BW)

n78H-MIMO,30MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3750	29.549	29.366

n78H,30MHz Bandwidth,CP QPSK (-26dBc BW)

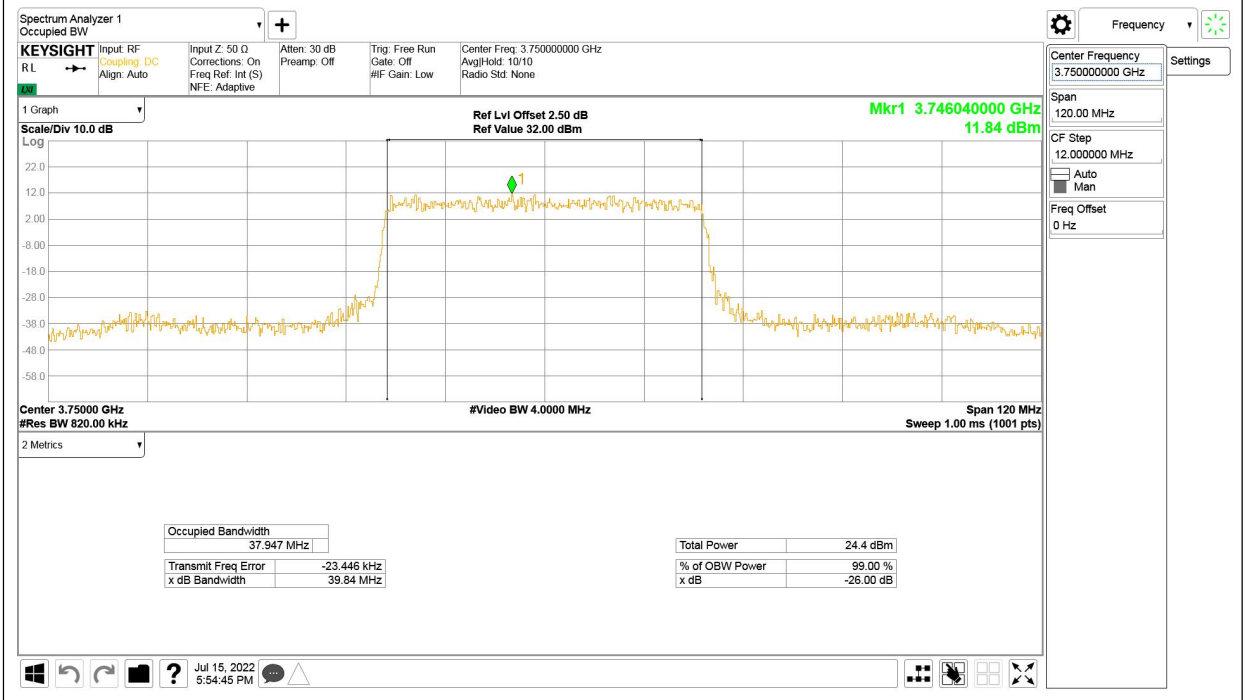
n78H,30MHz Bandwidth,CP 16QAM (-26dBc BW)



n78H-MIMO,40MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3750	39.845	39.929

n78H,40MHz Bandwidth,CP QPSK (-26dBc BW)



n78H,40MHz Bandwidth,CP 16QAM (-26dBc BW)

n78H-MIMO,50MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3750	50.112	49.975

n78H,50MHz Bandwidth,CP QPSK (-26dBc BW)

n78H,50MHz Bandwidth,CP 16QAM (-26dBc BW)

n78H-MIMO,60MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3750	60.877	61.028

n78H,60MHz Bandwidth,CP QPSK (-26dBc BW)

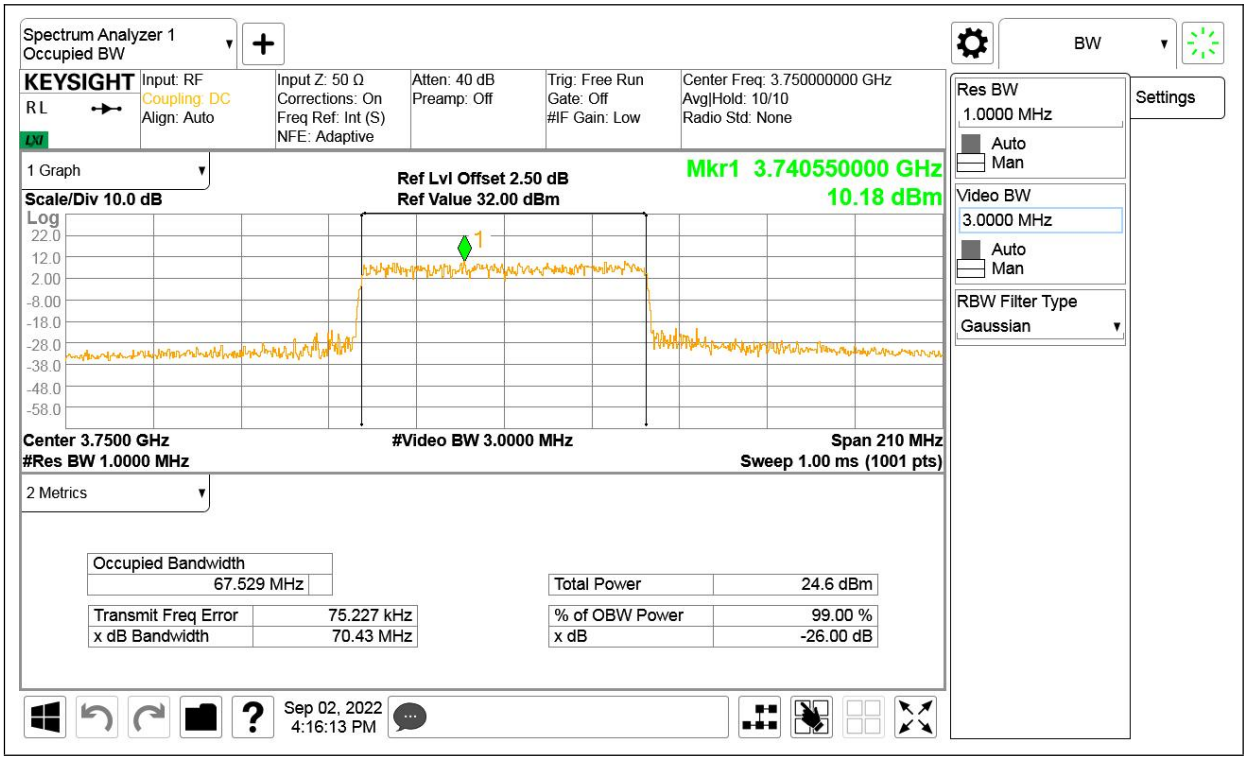
n78H,60MHz Bandwidth,CP 16QAM (-26dBc BW)

n78H-MIMO,70MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3750	70.381	70.430

n78H,70MHz Bandwidth,CP QPSK (-26dBc BW)

n78H,70MHz Bandwidth,CP 16QAM (-26dBc BW)



n78H-MIMO,80MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3750	81.469	81.460

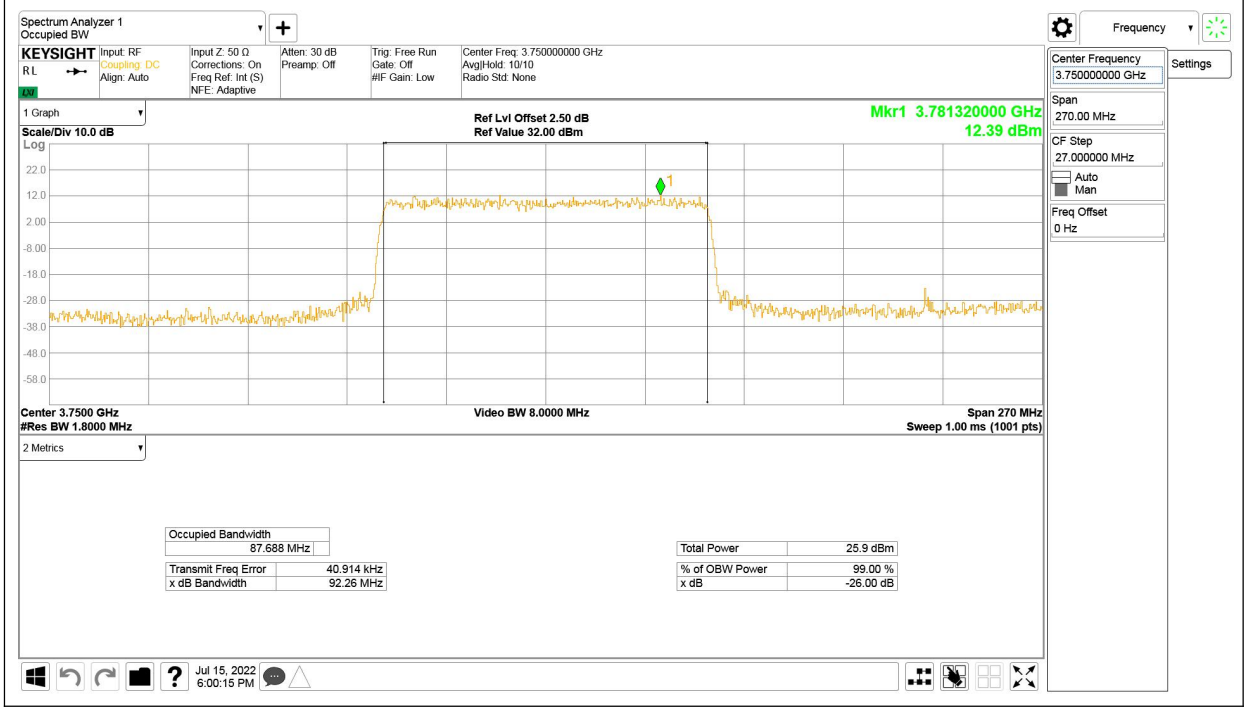
n78H,80MHz Bandwidth,CP QPSK (-26dBc BW)

n78H,80MHz Bandwidth,CP 16QAM (-26dBc BW)

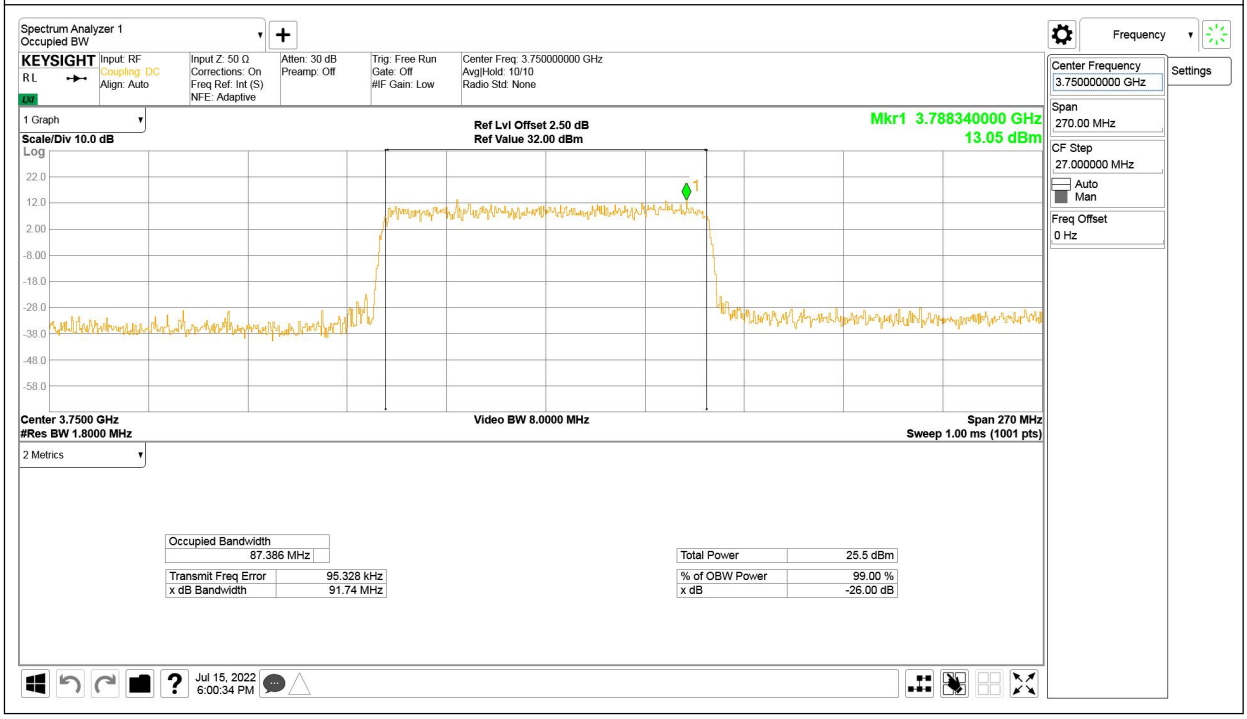
n78H-MIMO,90MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3750	92.255	91.744

n78H,90MHz Bandwidth,CP QPSK (-26dBc BW)



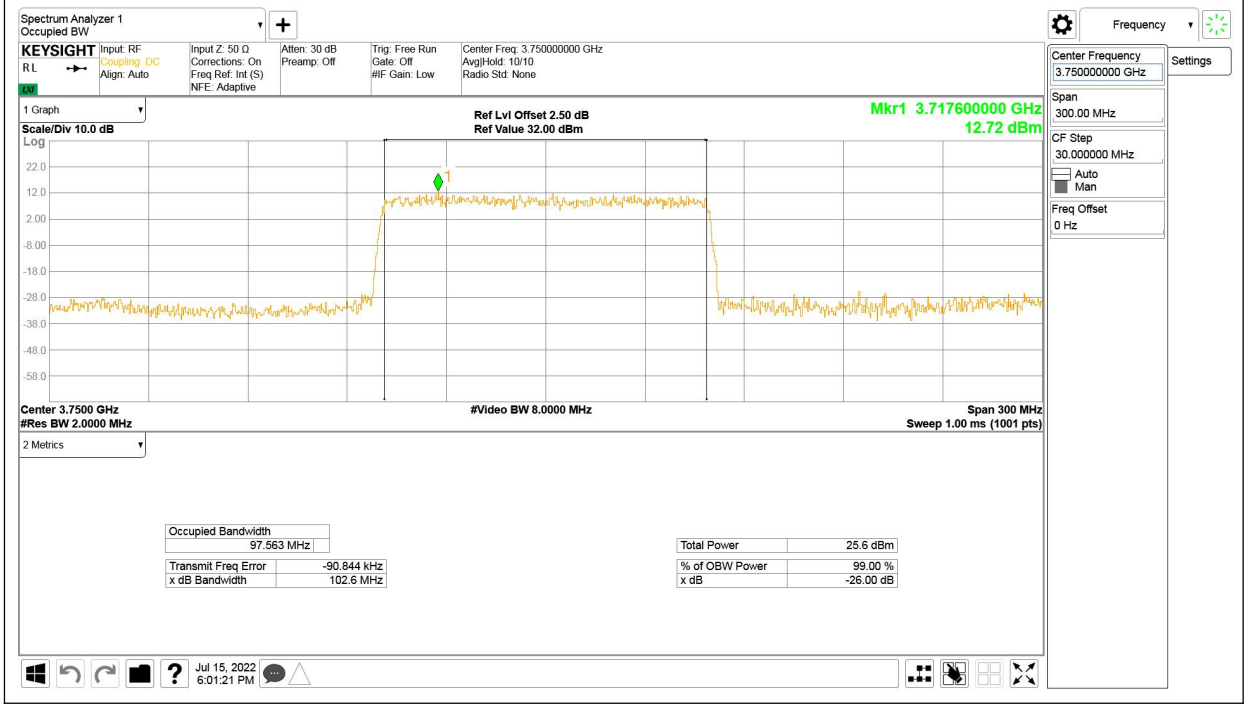
n78H,90MHz Bandwidth,CP 16QAM (-26dBc BW)



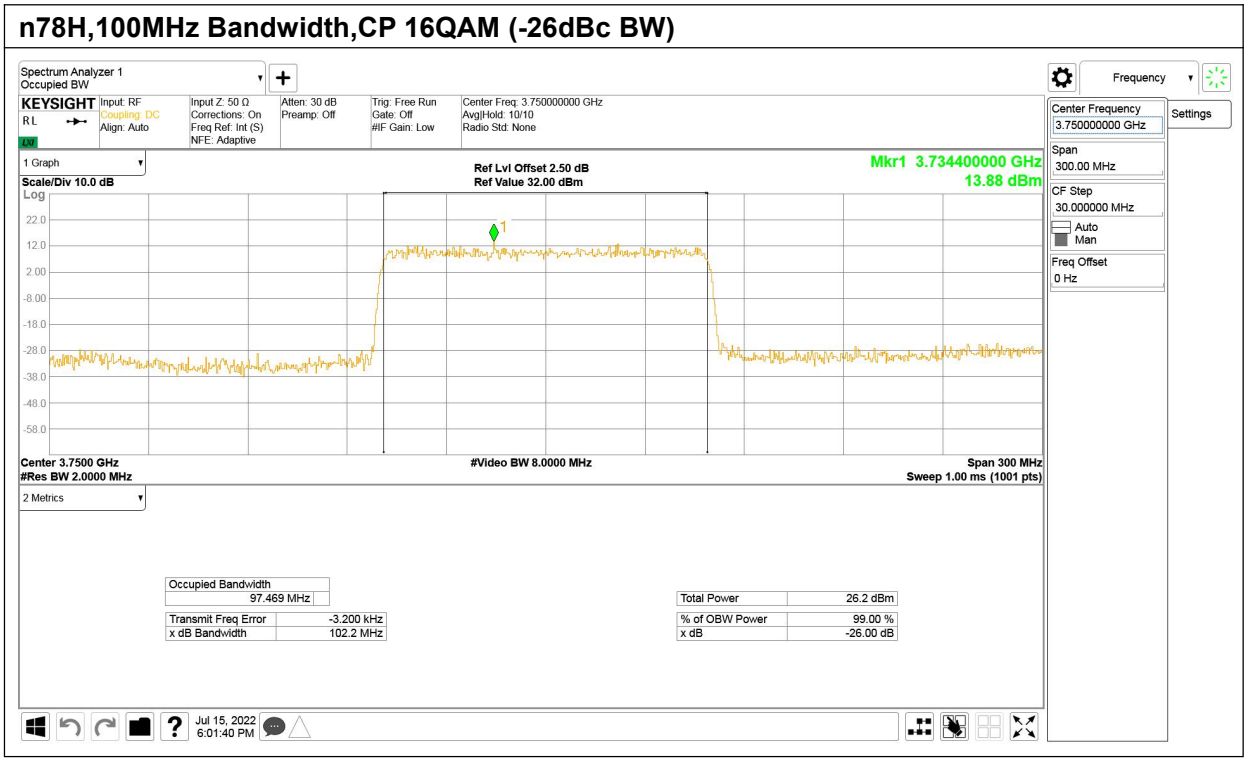
n78H-MIMO,100MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3750	102.555	102.174

n78H,100MHz Bandwidth,CP QPSK (-26dBc BW)



n78H,100MHz Bandwidth,CP 16QAM (-26dBc BW)



6.5.Conducted spurious emissions

Specifications:	FCC Part 2.1051,24.238,2.1053,22.917, 27.53,90.691
DUT Serial Number:	864284040456696
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 22.917 (a), i.e., Out of Band emissions. 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.

According to Part 24.238 (a), i.e., Out of Band emissions. 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, so the limit level is: P(dBm)– (43 + 10 log(P)) dB= -13dBm.

According to Part 27.53(h):

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10(P) dB.

According to Part 27.53(g):

For operations in the 600 MHz Band and the 698-746 MHz Band, the power of any emission outside a licensee's frequency Band(s) of operation shall be attenuated below the transmitter power (P) within the licensed Band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution Bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz Bands immediately outside and adjacent to a licensee's frequency block, a resolution Bandwidth of at least 30 kHz may be employed.

According to Part 90.691:

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the

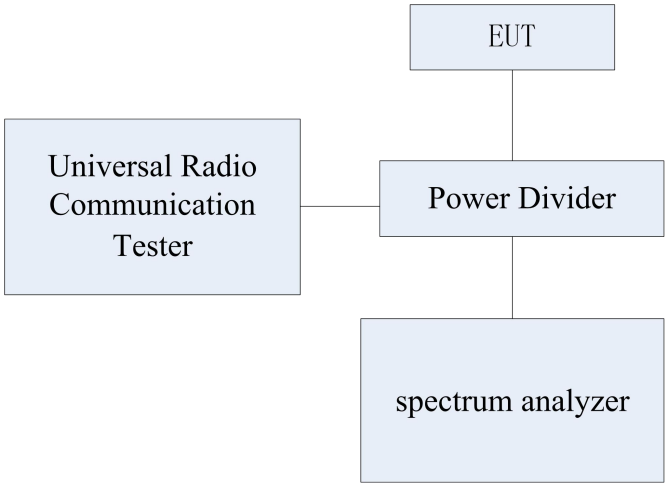
center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.
(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

Measurement Uncertainty:

Item	Uncertainty	
Expanded Uncertainty	9kHz < f≤4GHz	0.71 dB (k=2)
	4GHz≤f < 12.75GHz	0.74 dB (k=2)
	12.75GHz≤f < 26GHz	2.70 dB (k=2)

Test Setup:

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method:

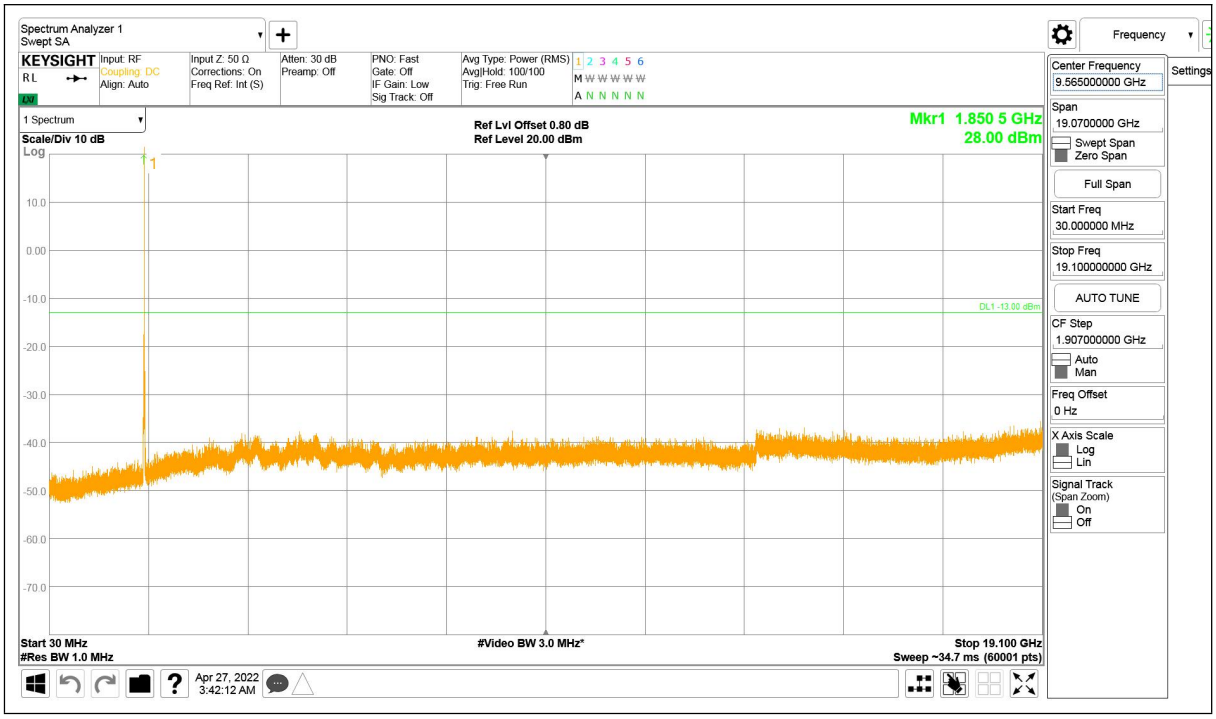
The measurement was performed accordance with section 2.2.13 of ANSI/TIA-603-E: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.
The measurement was performed accordance with section 2.2.13 of ANSI/TIA-603-E: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-Band emissions, if any, up to 10th harmonic. The EUT was scanned for spurious emissions from 30MHz to 20GHz with sufficient Bandwidth and video resolution. The spectrum analyzer was set to Maximum hold mode to ensure that the worst-case emissions were captured.

Note: --

6.5.1 Conducted Spurious Emission Results

n2

NOTE: peak above the limit line is the carrier frequency.



LTE Band 66+NR n5

NOTE: peak above the limit line is the carrier frequency.