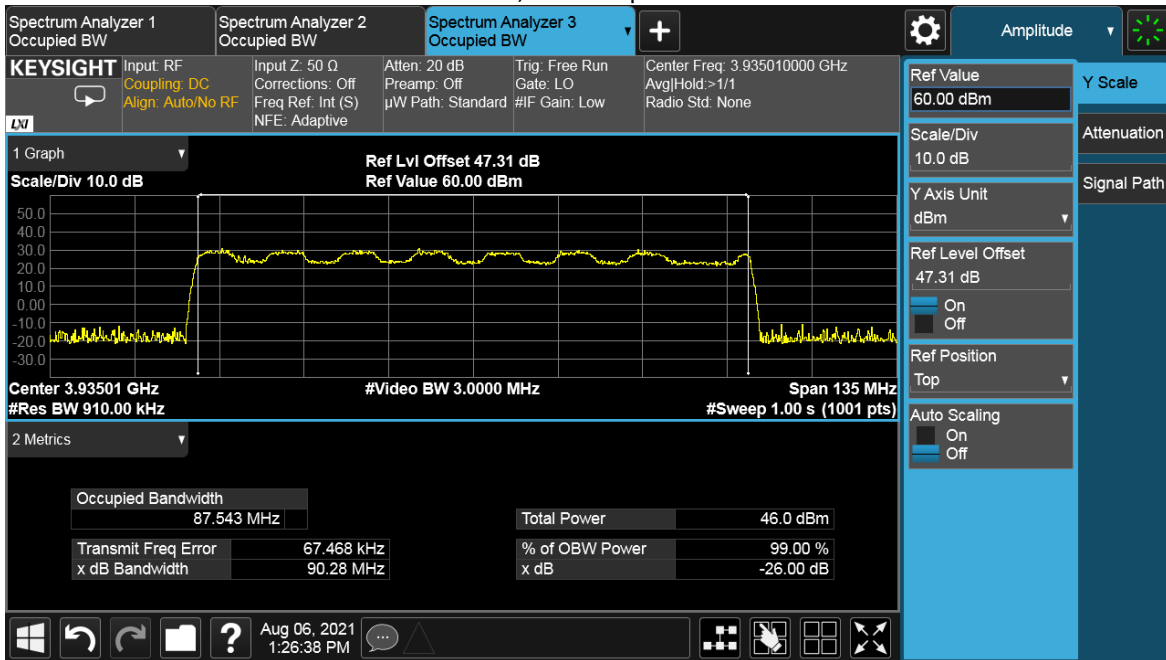


TEST REPORT

90MHz, Channel position T



NR-MIMO-2C-70M-320W & NR-MIMO-2C-90M-320W

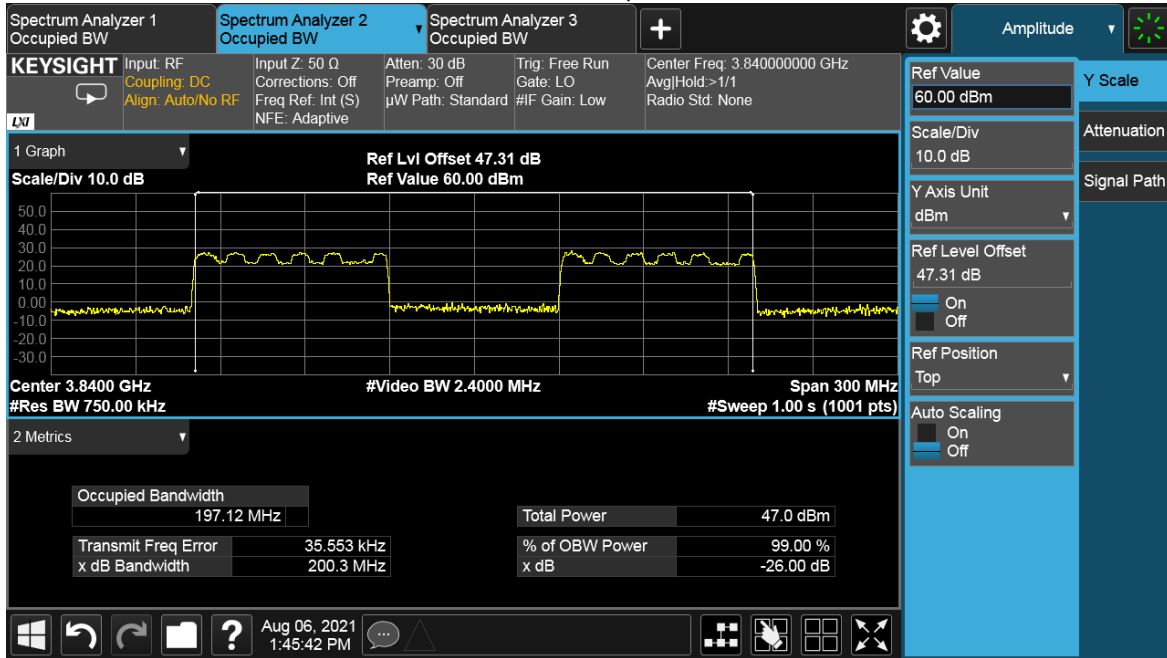
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
17	16QAM	70MHz	-	197.12	-
17	16QAM	90MHz	-	196.77	-

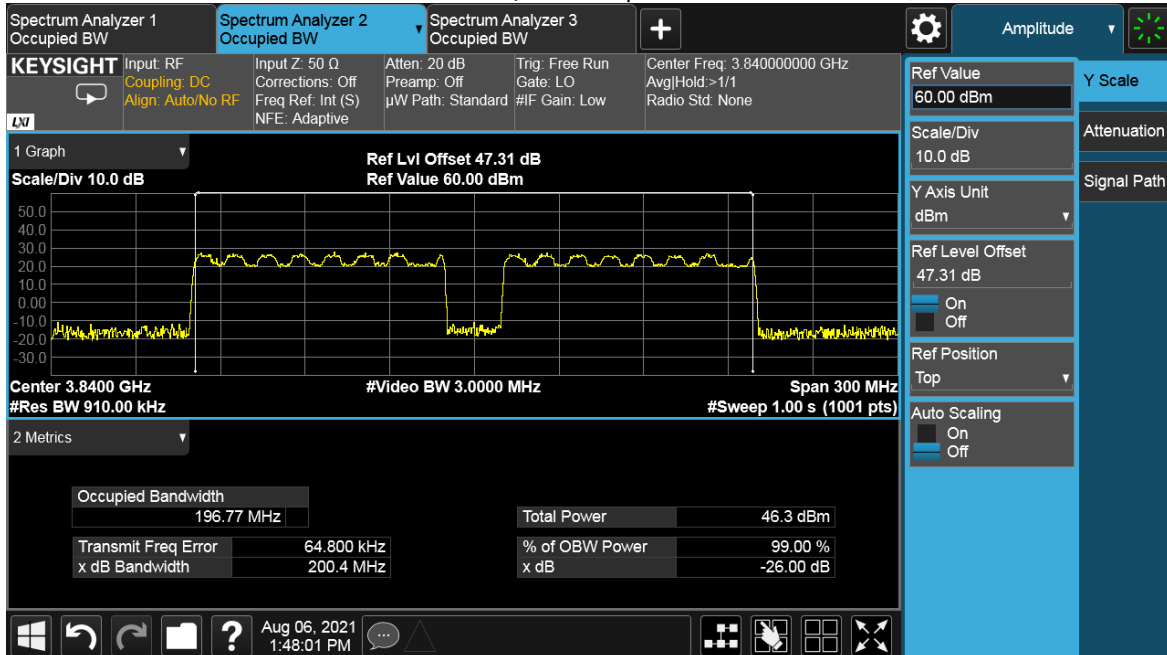
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
17	16QAM	70MHz	-	200.3	-
17	16QAM	90MHz	-	200.4	-

70MHz, Channel position M



90MHz, Channel position M



TEST REPORT**5 Unwanted Emissions at Band Edge****Test result: Pass****5.1 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.

5.2 Measurement Procedure

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 -18.06dB [$10\log(1/64)$] by using the Measure and Add $10\log(N)$ dB technique according to KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports . Then the limit was adjusted to -31.06dBm .

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 $> 1\text{MHz}$ away from the band edges.

Spectrum analyzer detector was set as RMS.

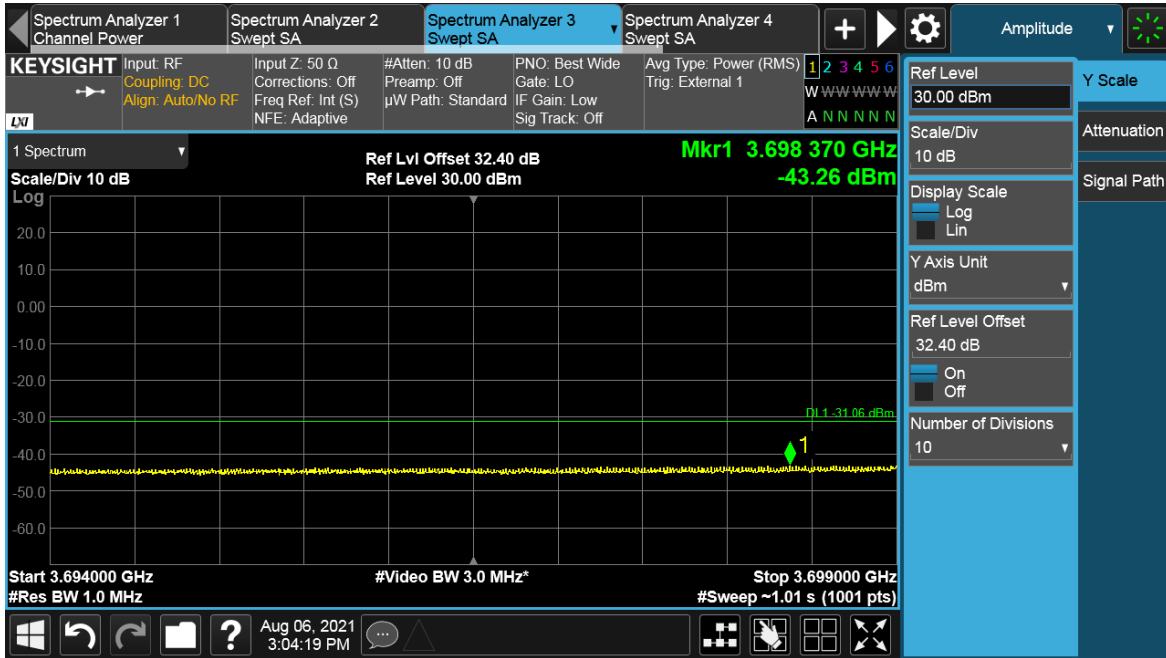
5.3 Measurement result

NR-MIMO-1C-BE-70M-320W

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
17	B	16QAM	70	750	-31.06
				1000	-31.06
17	T	16QAM	70	750	-31.06
				1000	-31.06



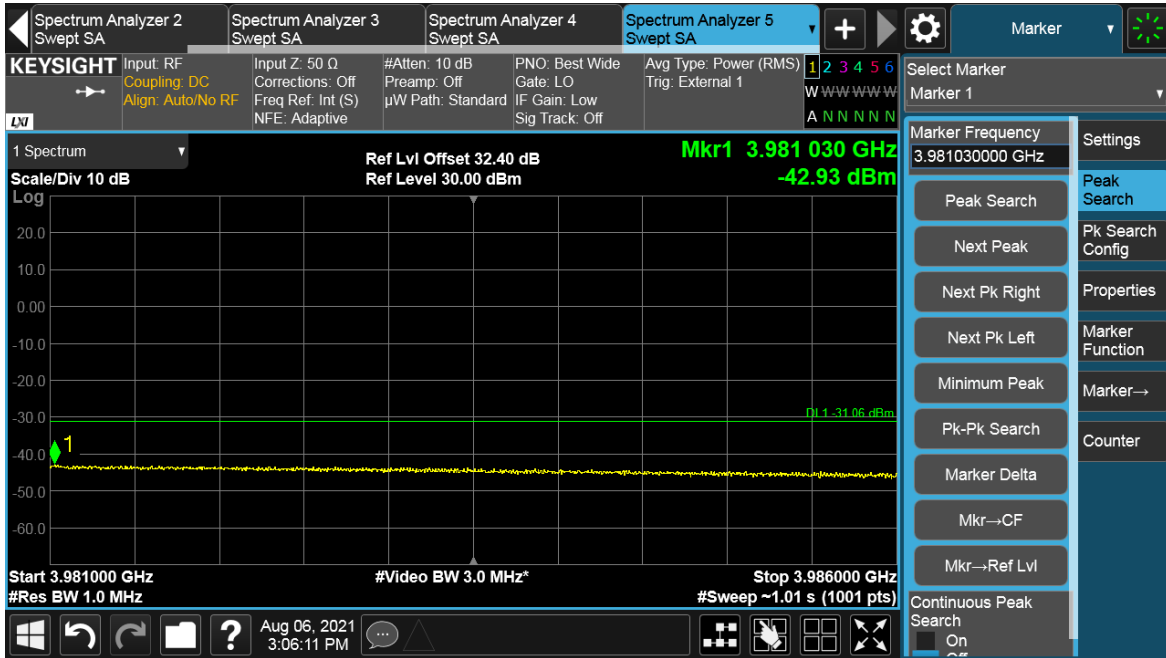
TEST REPORT



Channel Position T



TEST REPORT

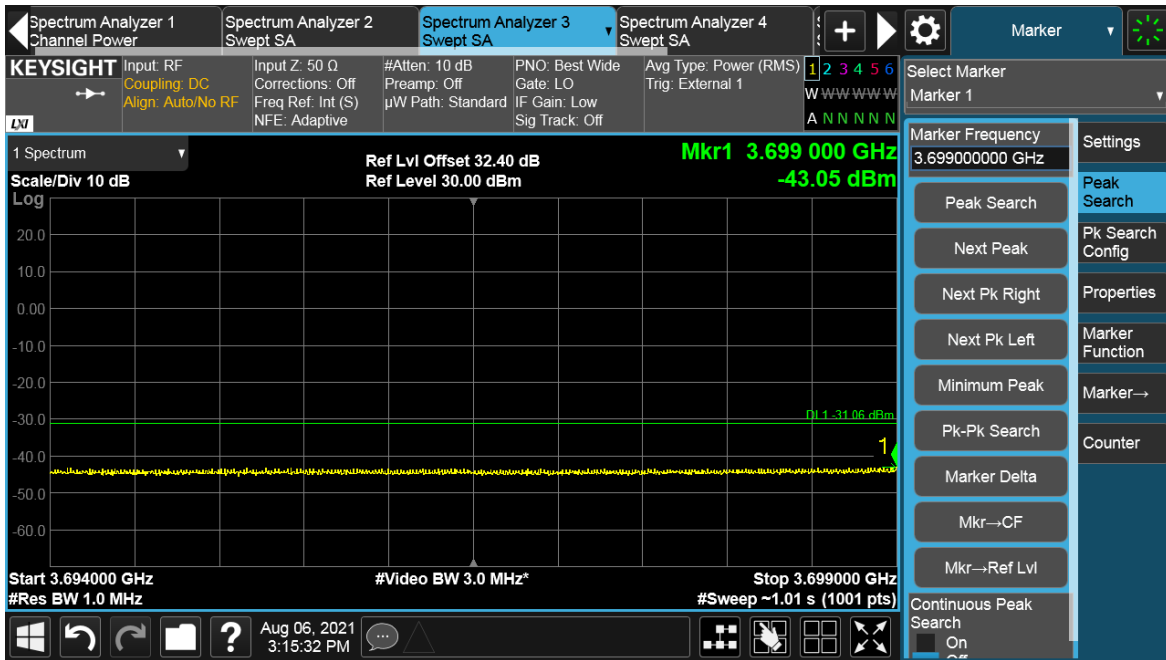


NR-MIMO-1C-BE-90M-320W

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
17	B	16QAM	90	910	-31.06
				1000	-31.06
17	T	16QAM	90	910	-31.06
				1000	-31.06

Channel Position B



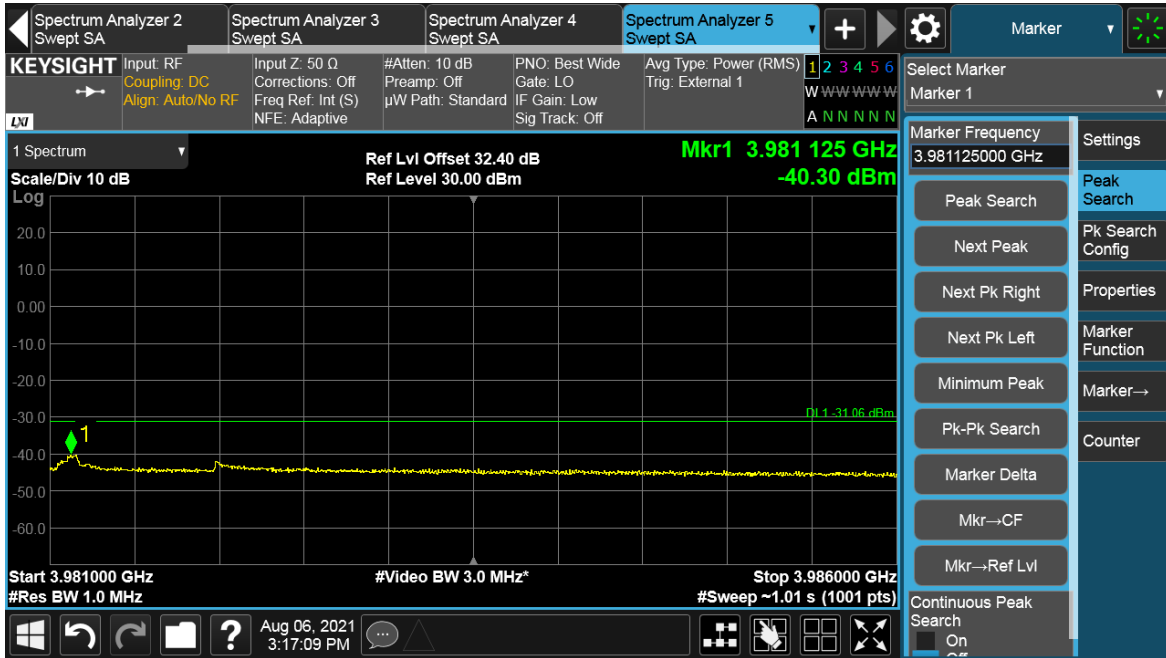


Channel Position T



Total Quality. Assured.

TEST REPORT

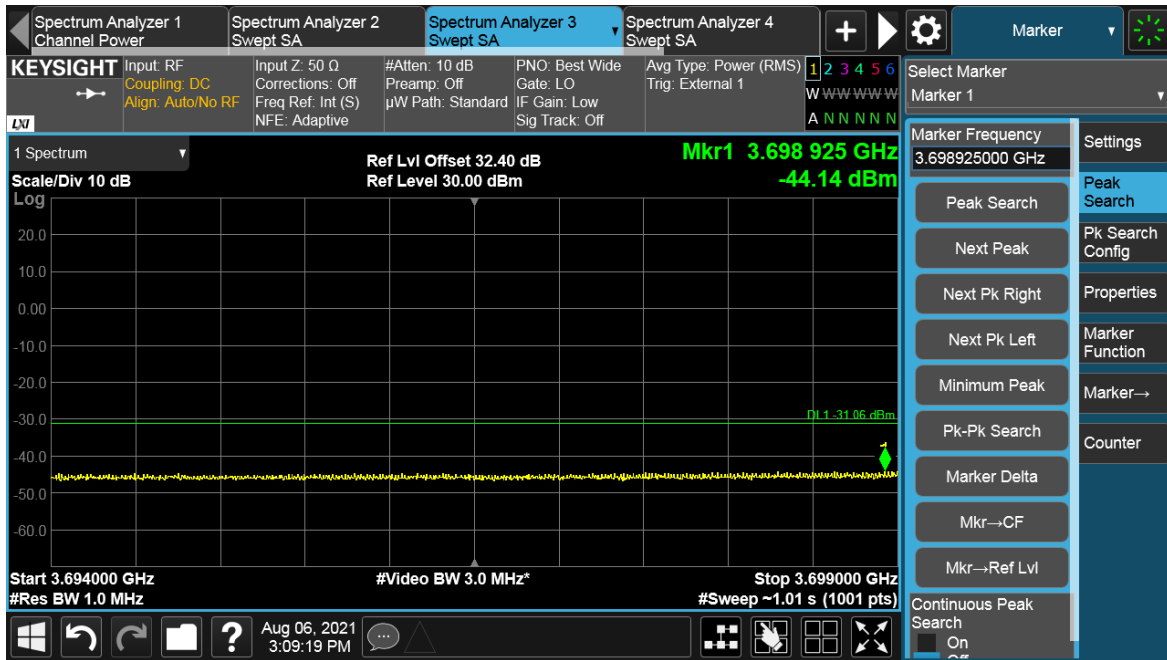


NR-MIMO-2C-BE-70M-320W

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
17	B	16QAM	70	750	-31.06
				1000	-31.06
17	T	16QAM	70	750	-31.06
				1000	-31.06

Channel Position B

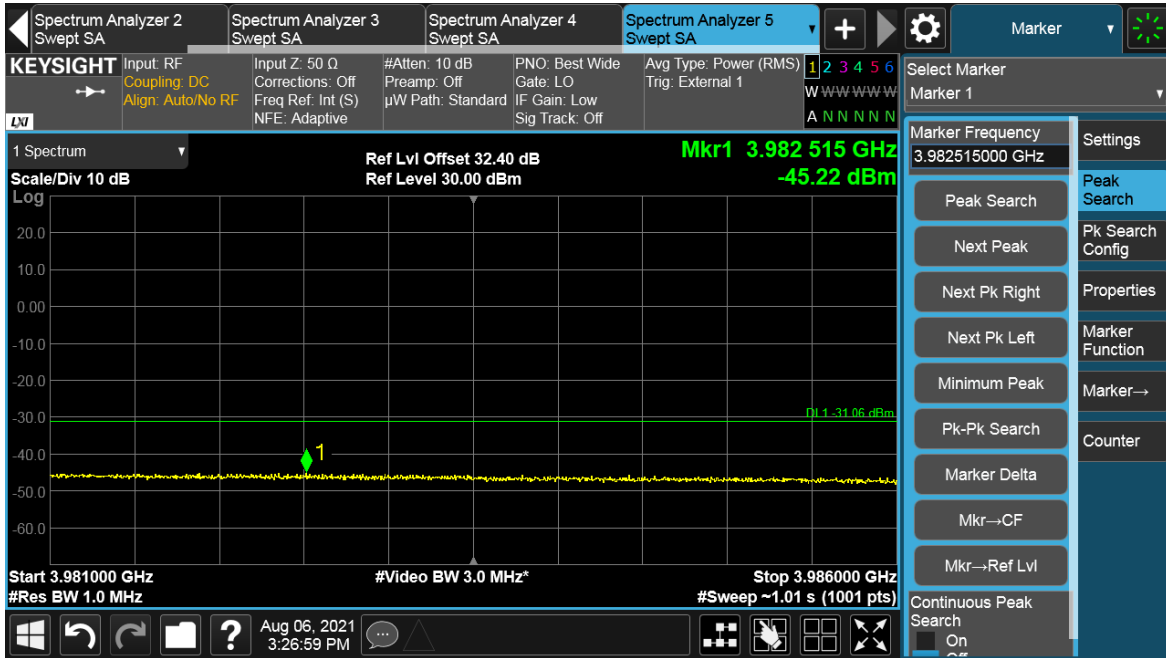




Channel Position T



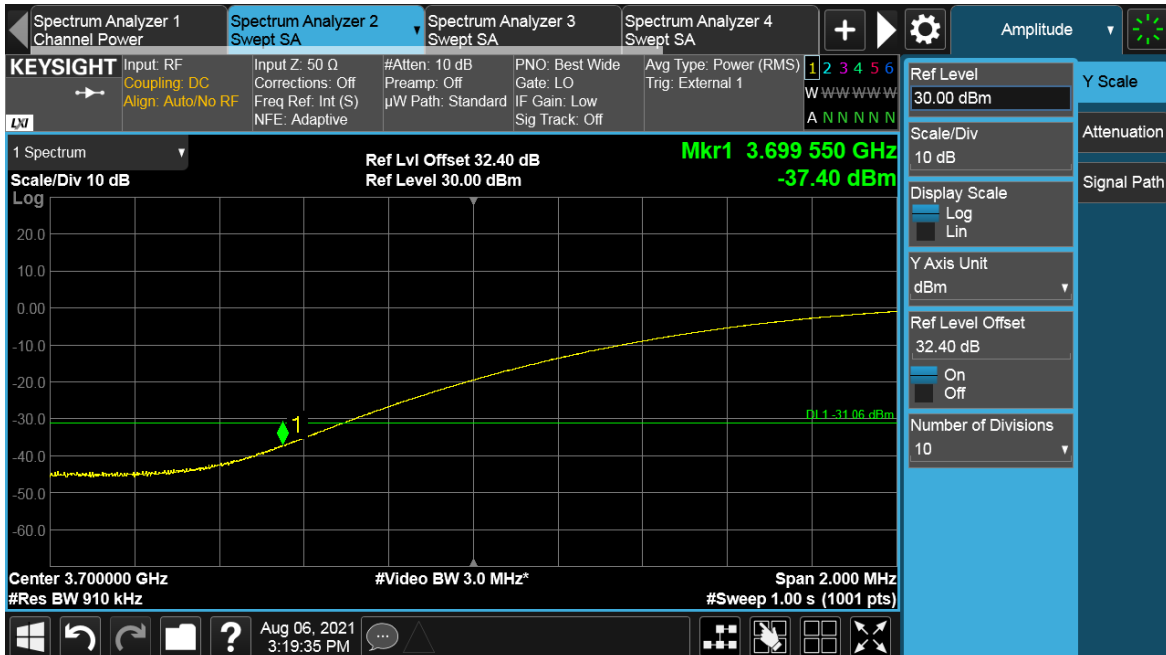
TEST REPORT

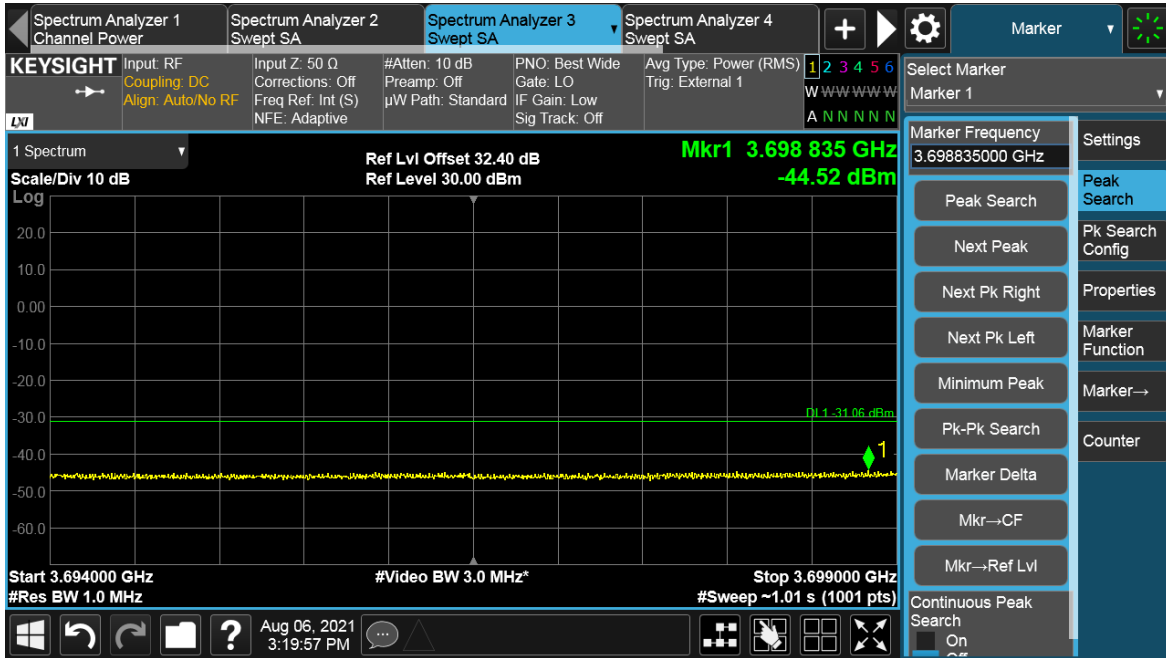


NR-MIMO-2C-BE-90M-320W

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
17	B	16QAM	70	910	-31.06
				1000	-31.06
17	T	16QAM	70	910	-31.06
				1000	-31.06

Channel Position B



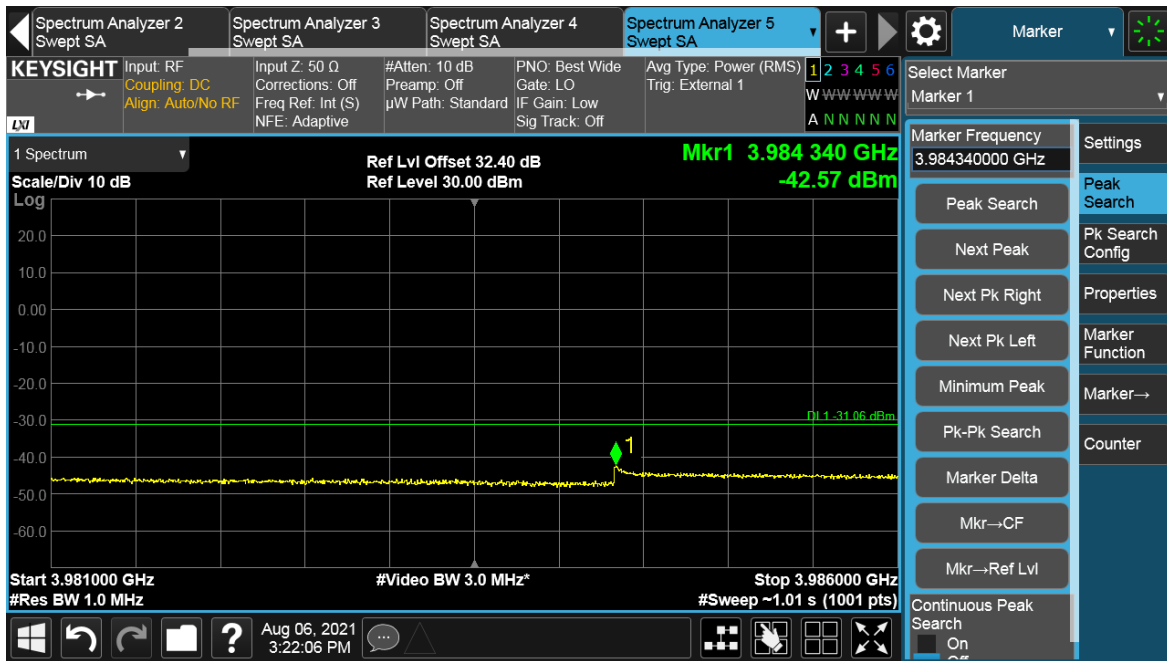


Channel Position T



Total Quality. Assured.

TEST REPORT



6 Conducted Unwanted Emission

Test result: Pass

6.1 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.

6.2 Measurement Procedure

In accordance with FCC rules, 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.

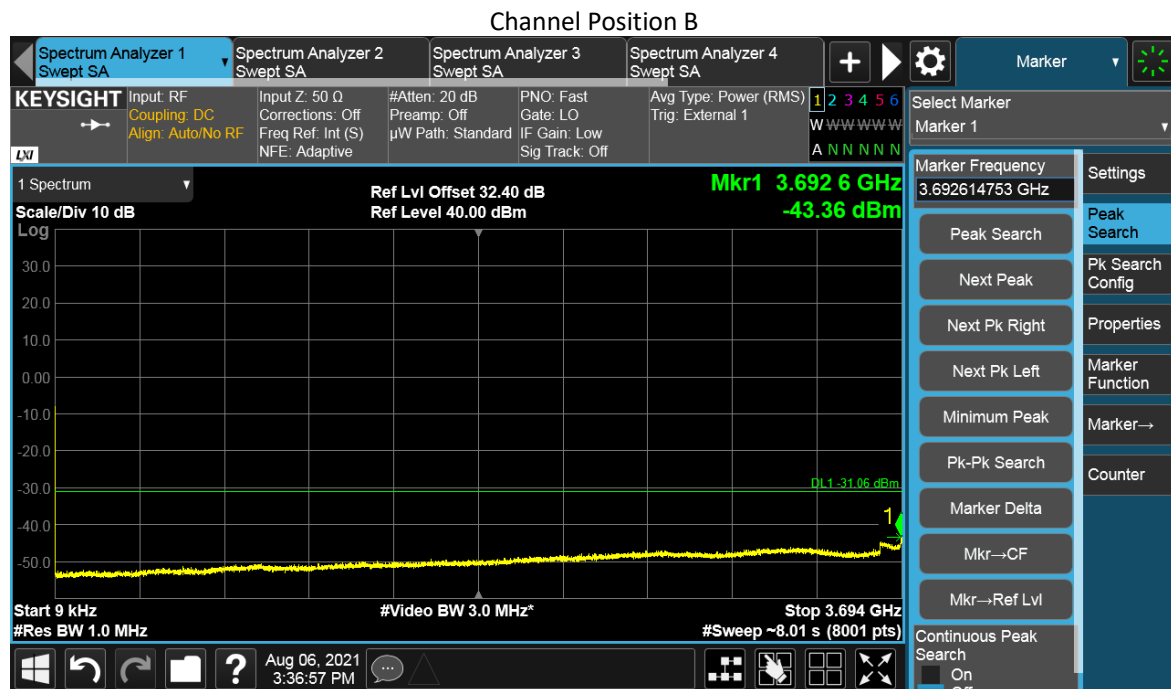
The spurious emissions from the antenna terminal were measured. The transmitter output power was attenuated using an attenuator and the frequency spectrum investigated from 9kHz to 40GHz. The resolution bandwidth of 1MHz was employed for frequency band 9kHz to 40GHz. The spectrum analyzer detector was set to RMS.

For MIMO mode configurations, the limit was adjusted with a correction of -18.06dB [$10\log(1/64)$] by using the Measure and Add $10\log(N)$ dB technique according to KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports. Then the limit was adjusted to -31.06dBm .

6.3 Measurement result

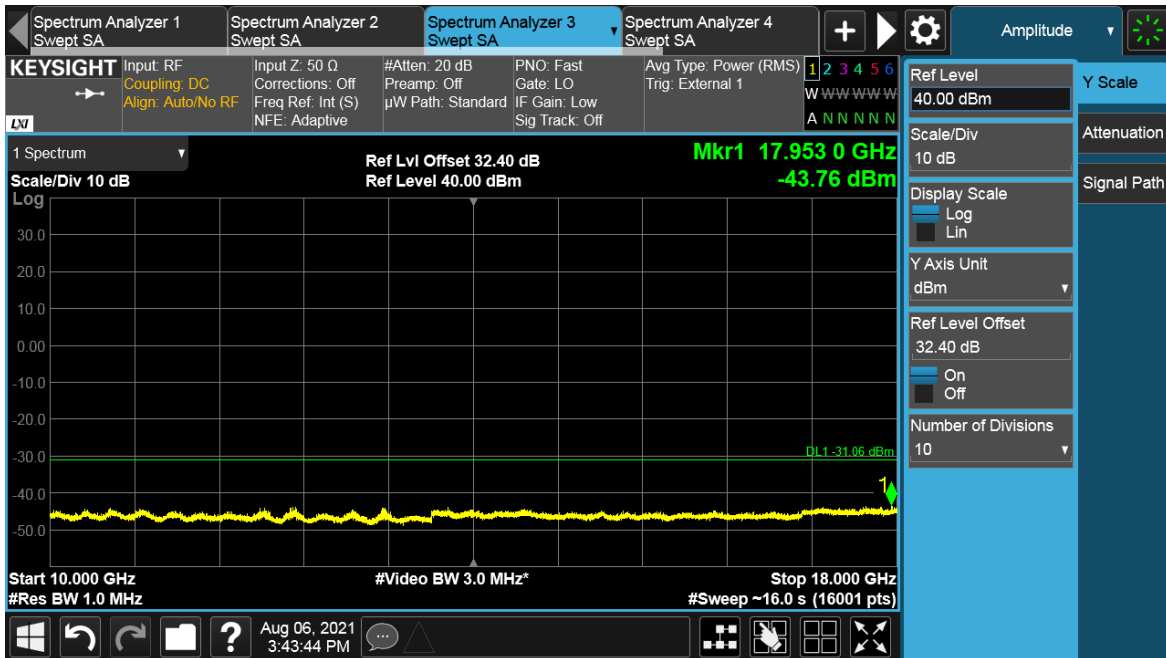
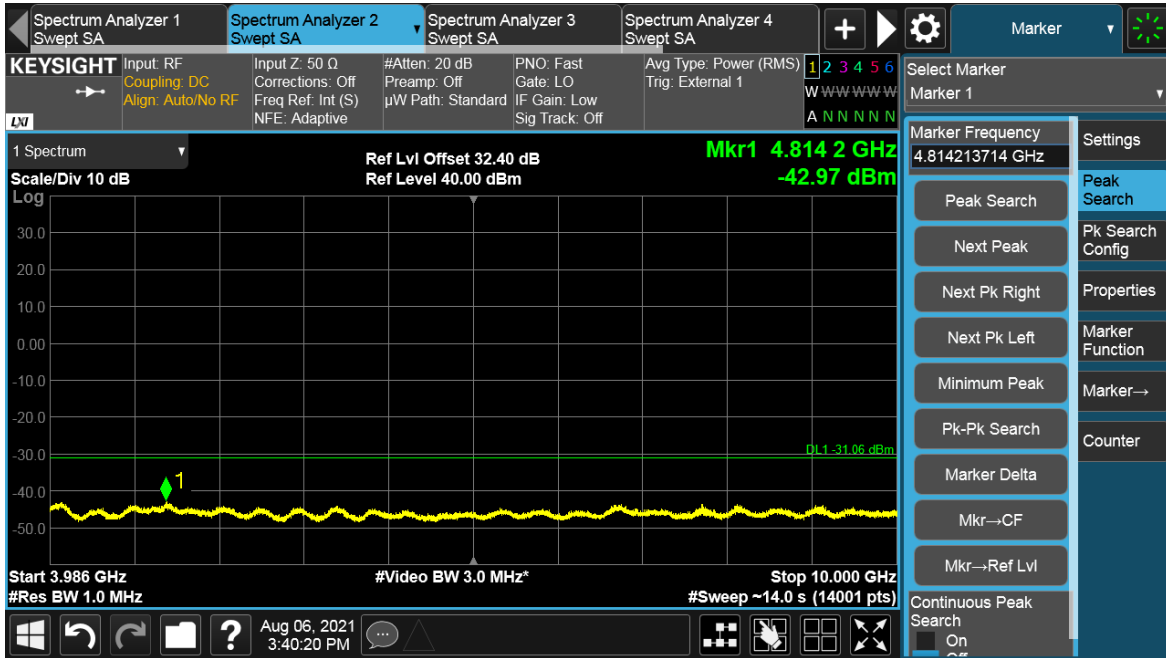
NR-MIMO-1C-BE-70M-320W

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
17	B	16QAM	70	1000	-31.06
17	T	16QAM	70	1000	-31.06



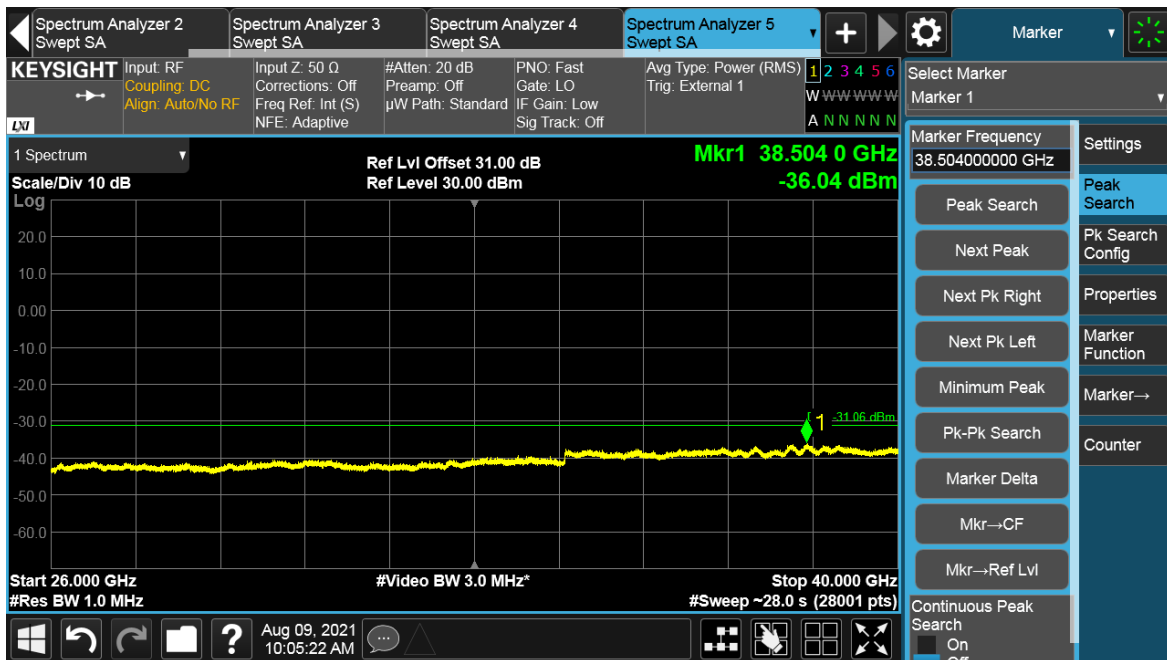
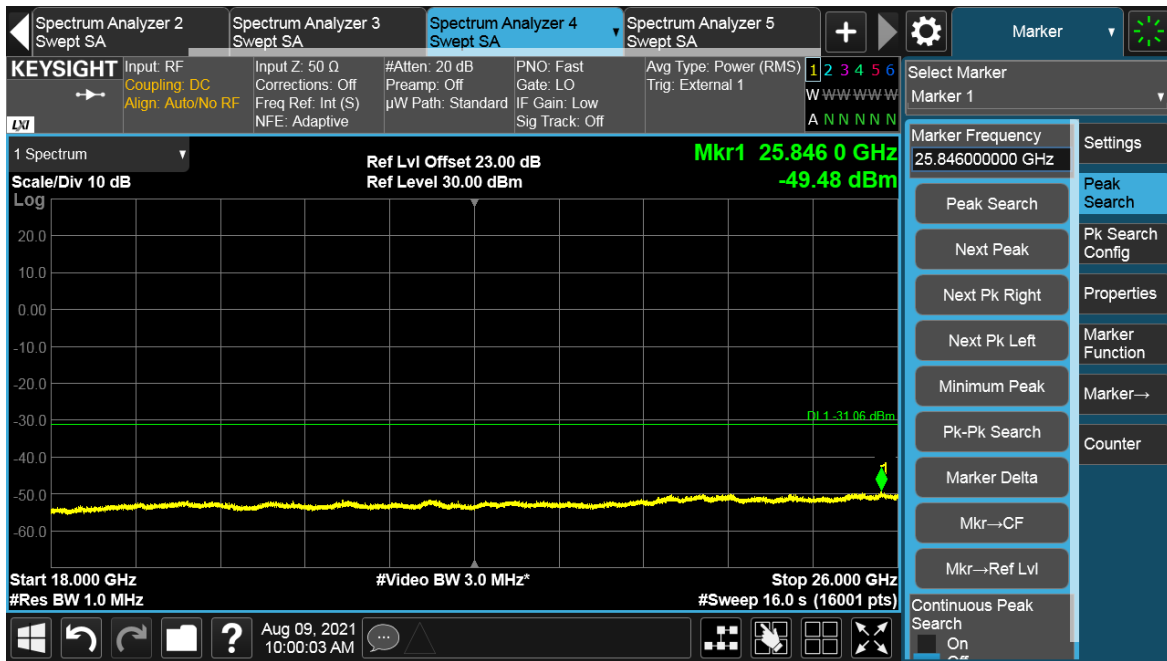
Total Quality. Assured.

TEST REPORT

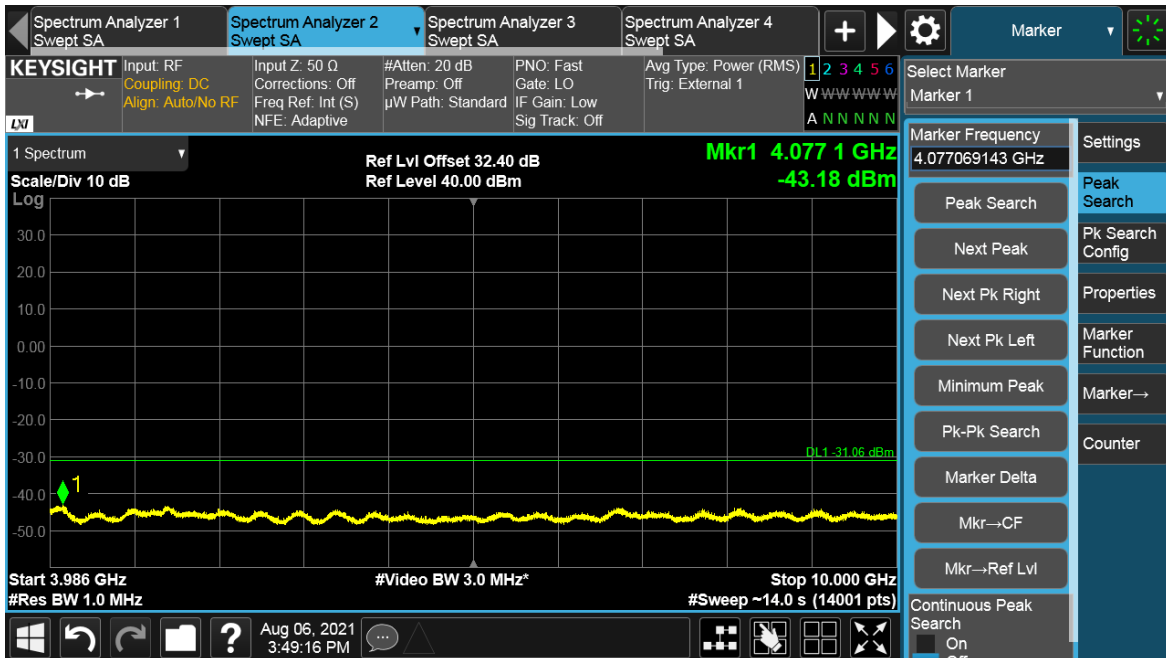
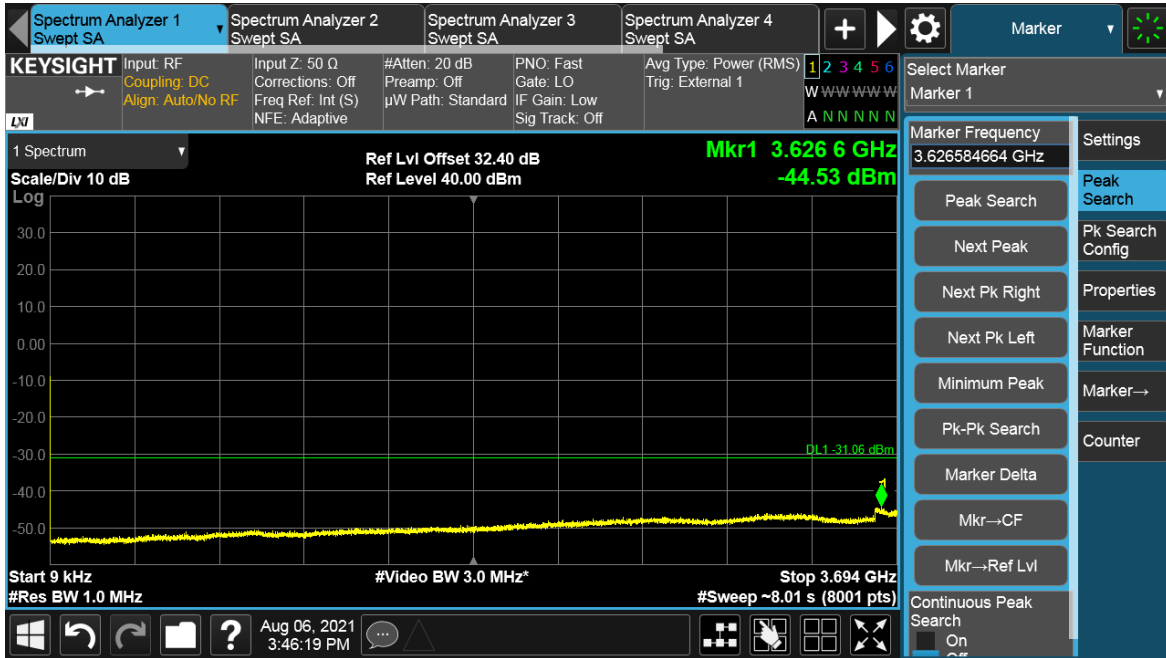


Total Quality. Assured.

TEST REPORT

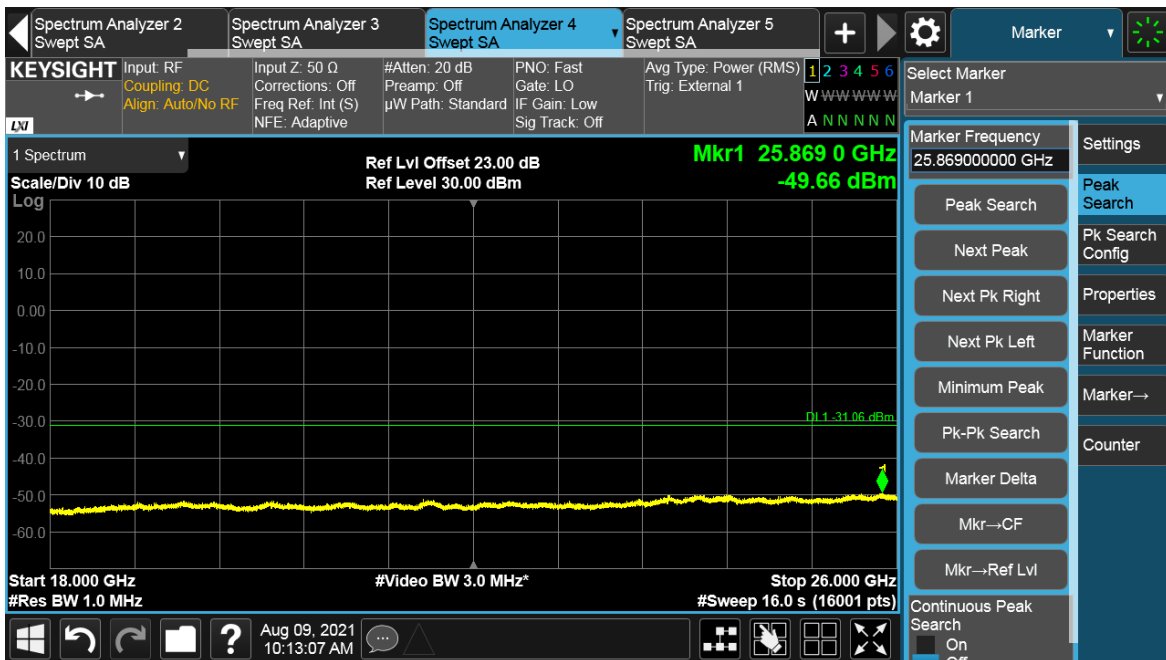
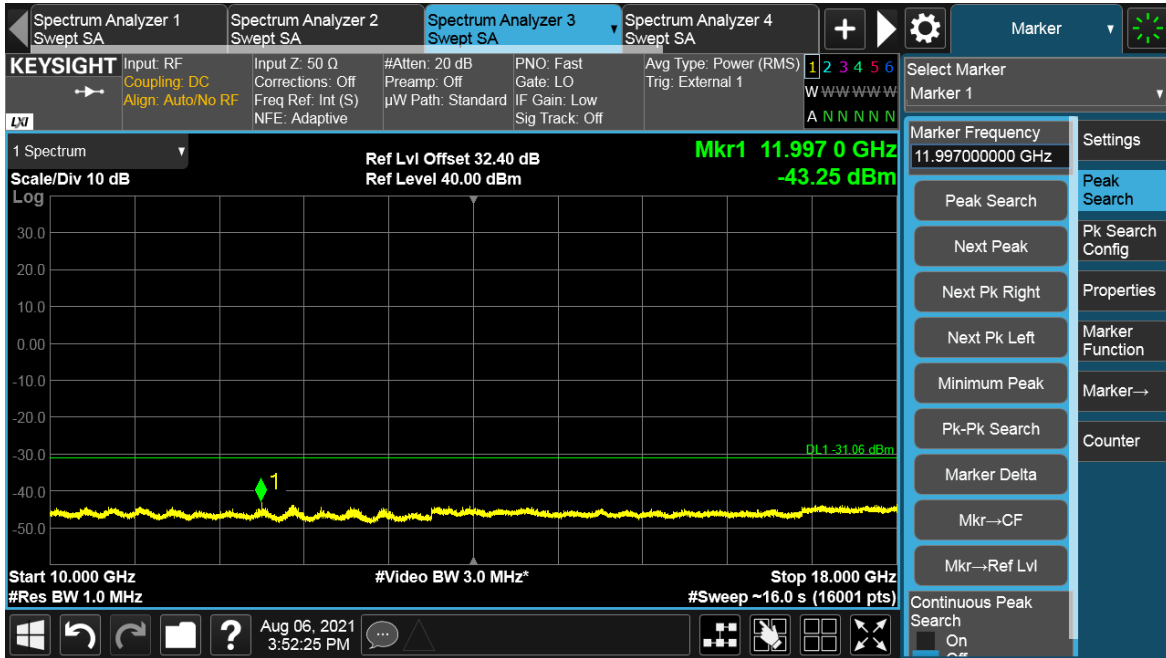


Channel Position T

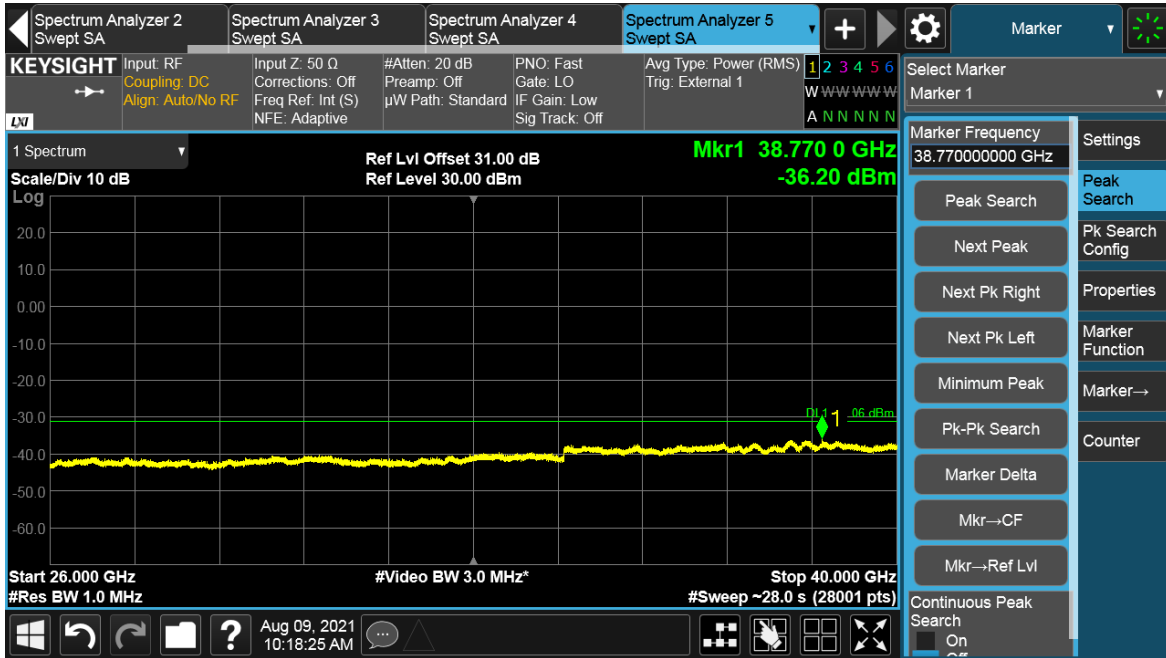


Total Quality. Assured.

TEST REPORT



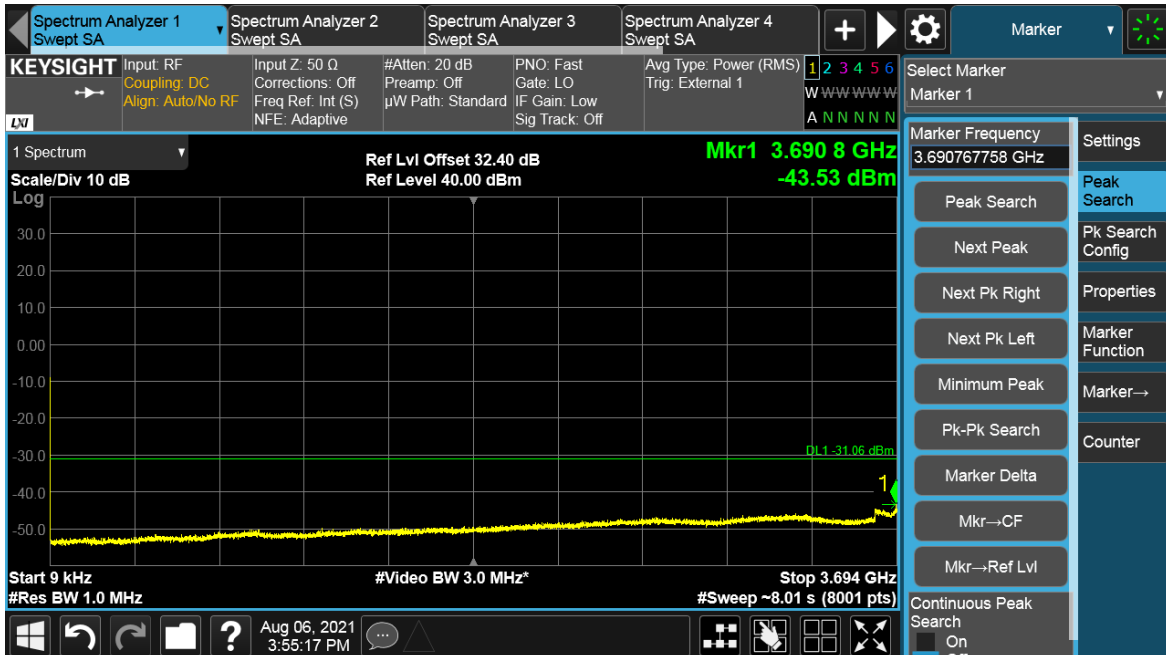
TEST REPORT



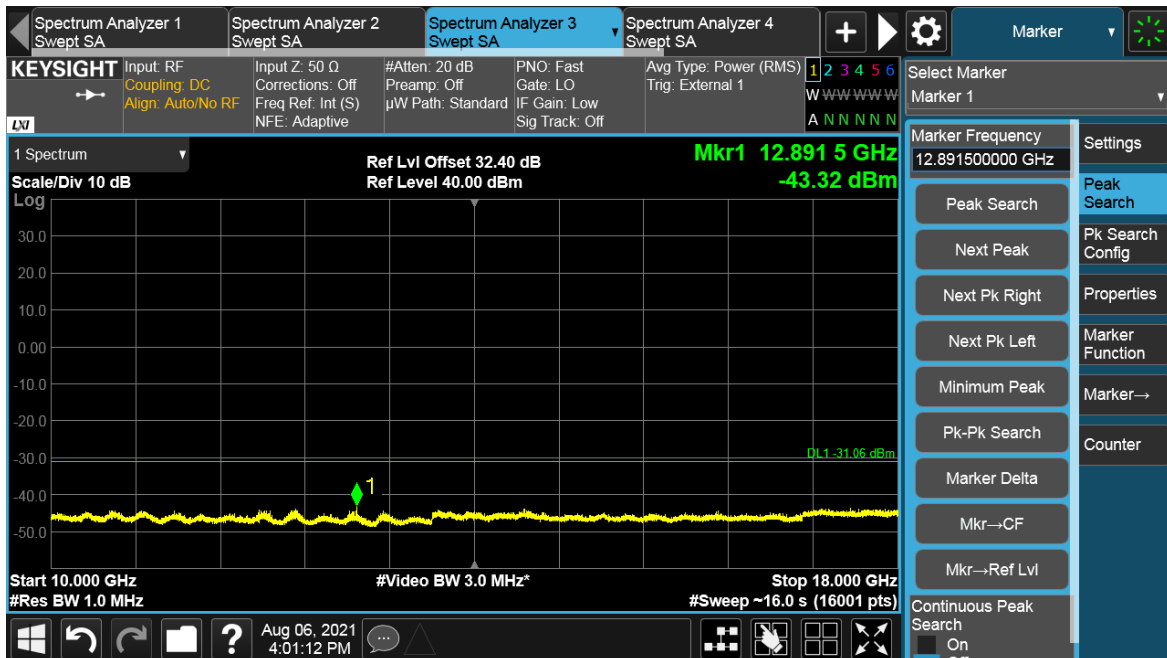
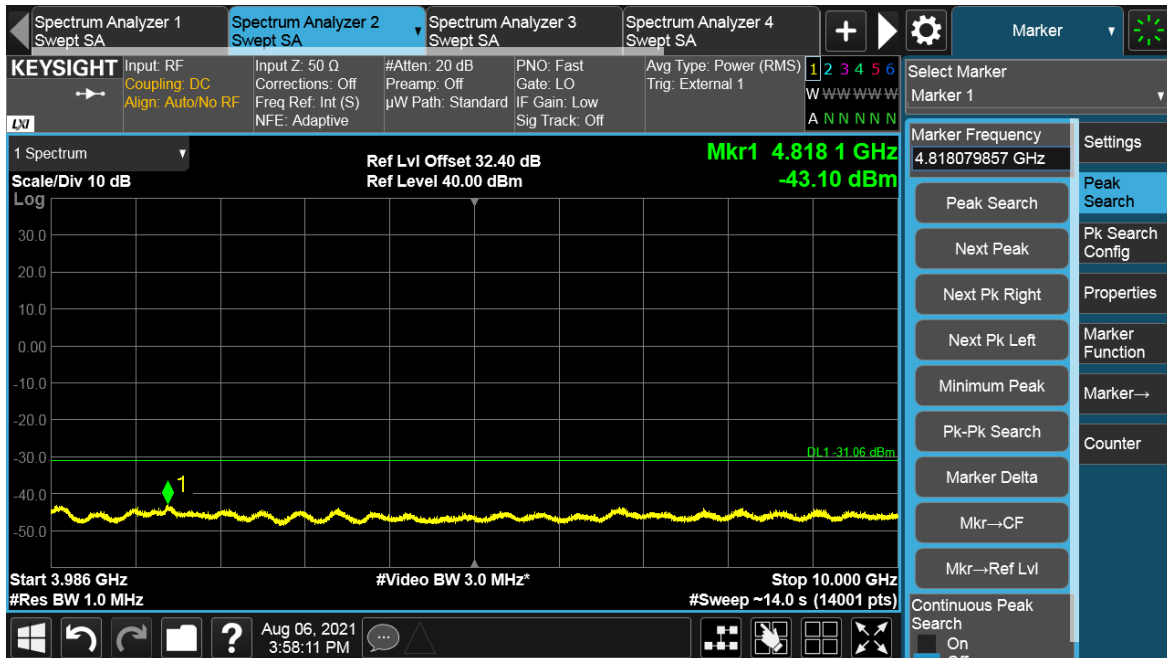
NR-MIMO-1C-BE-90M-320W

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
17	B	16QAM	90	1000	-31.06
17	T	16QAM	90	1000	-31.06

Channel Position B

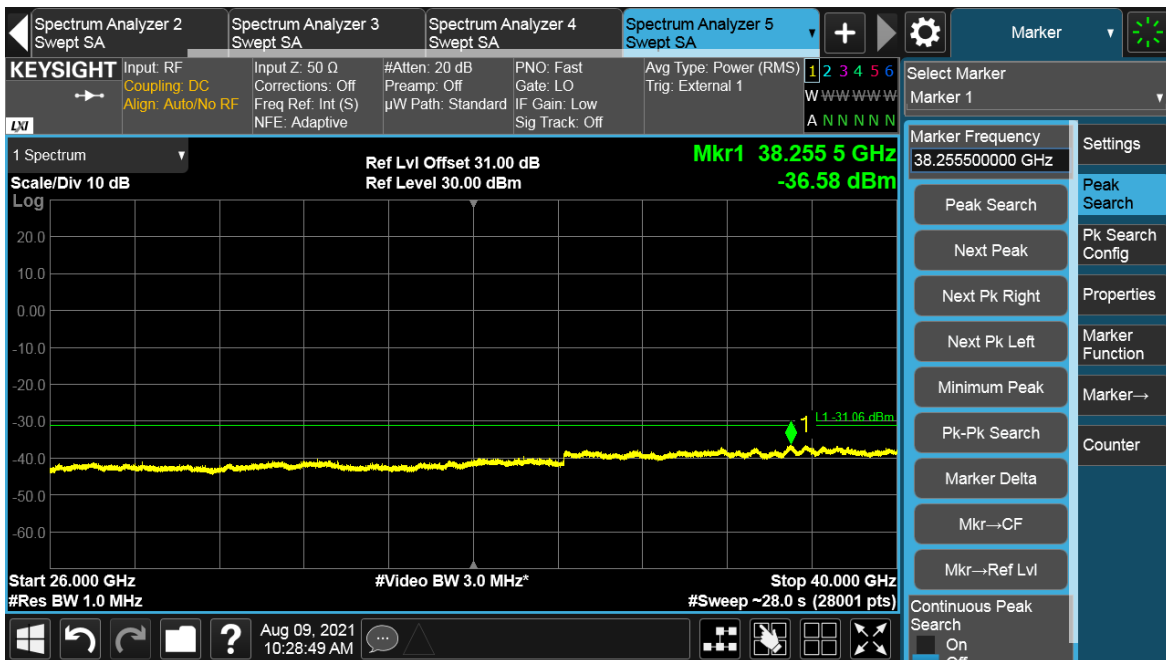
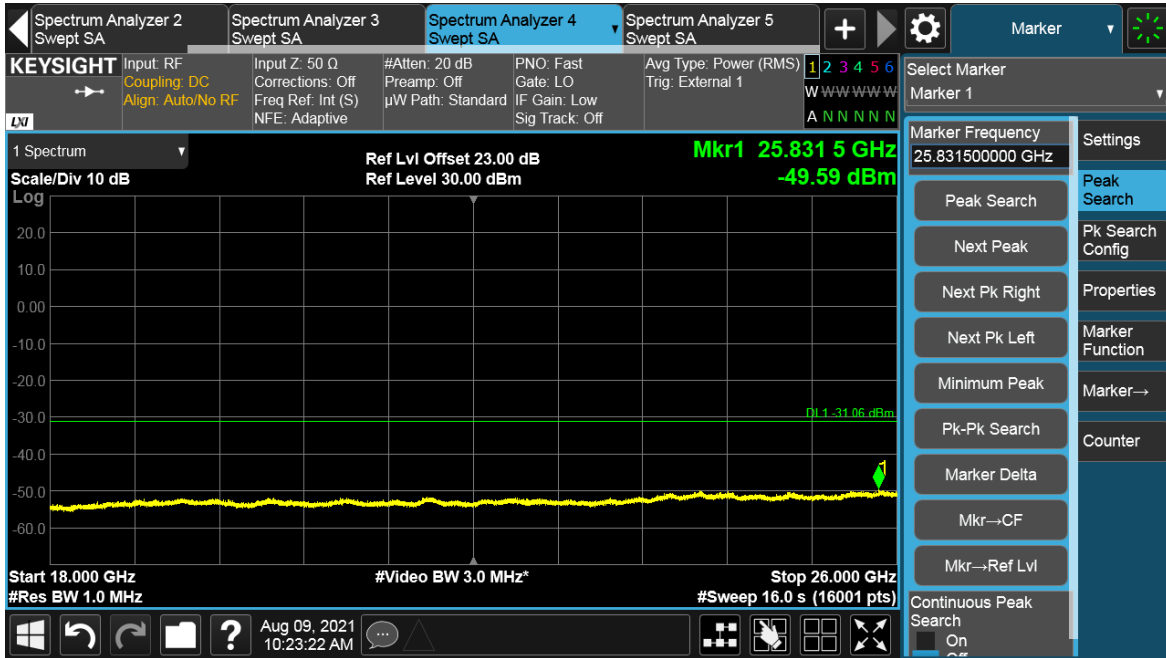


TEST REPORT

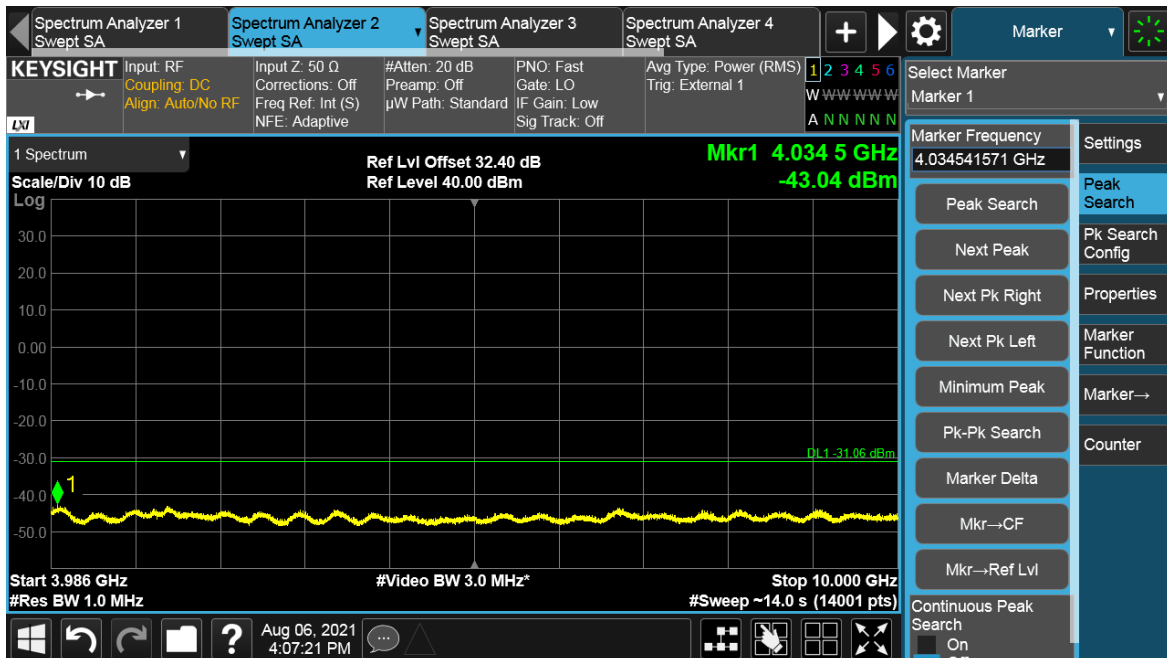
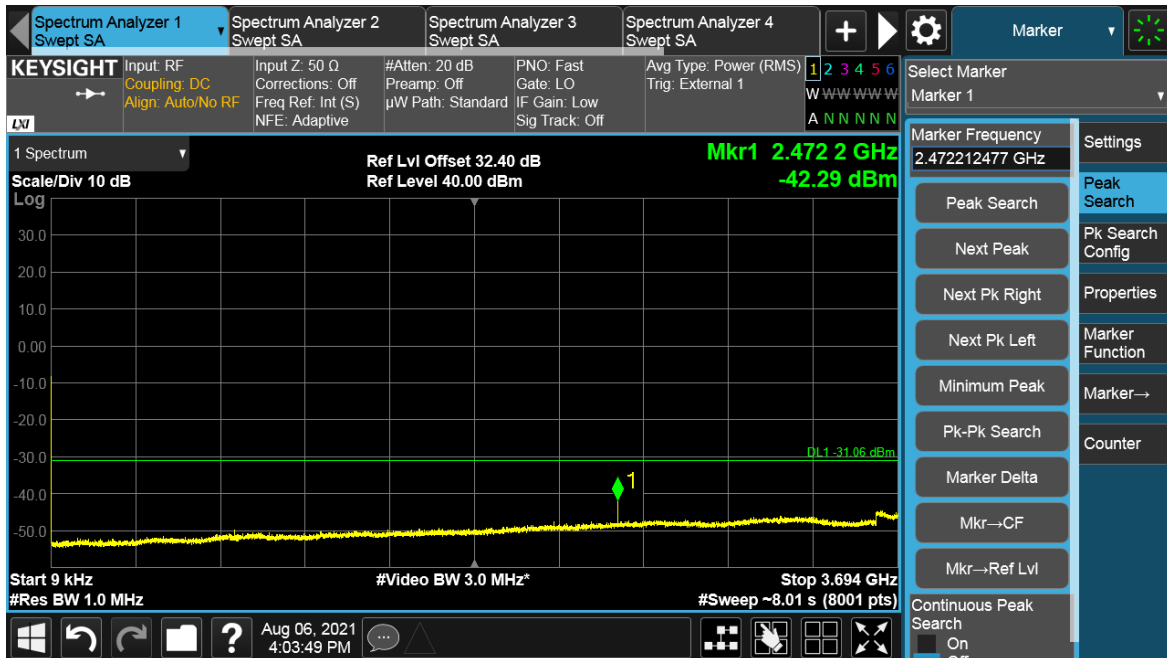


Total Quality. Assured.

TEST REPORT

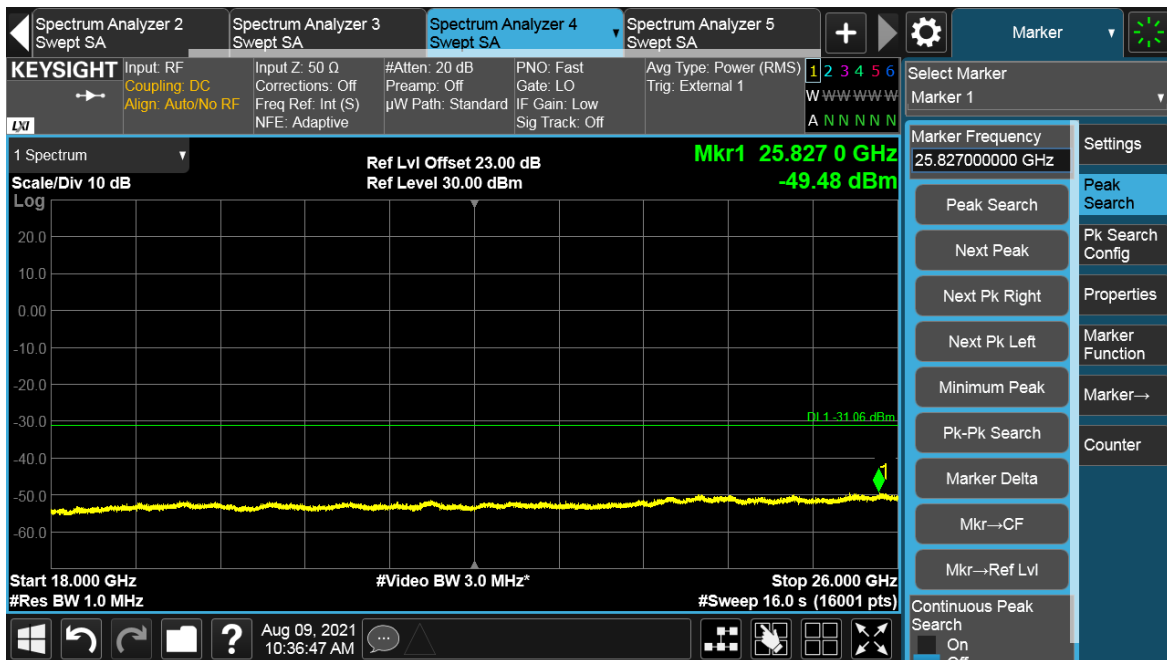
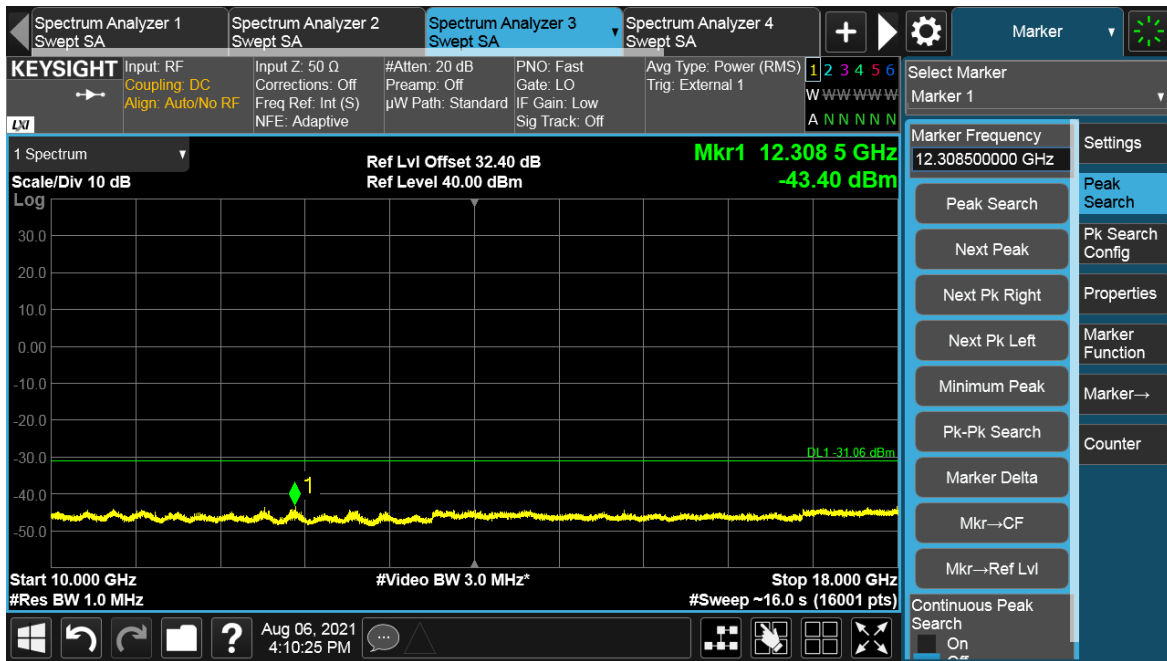


Channel Position T



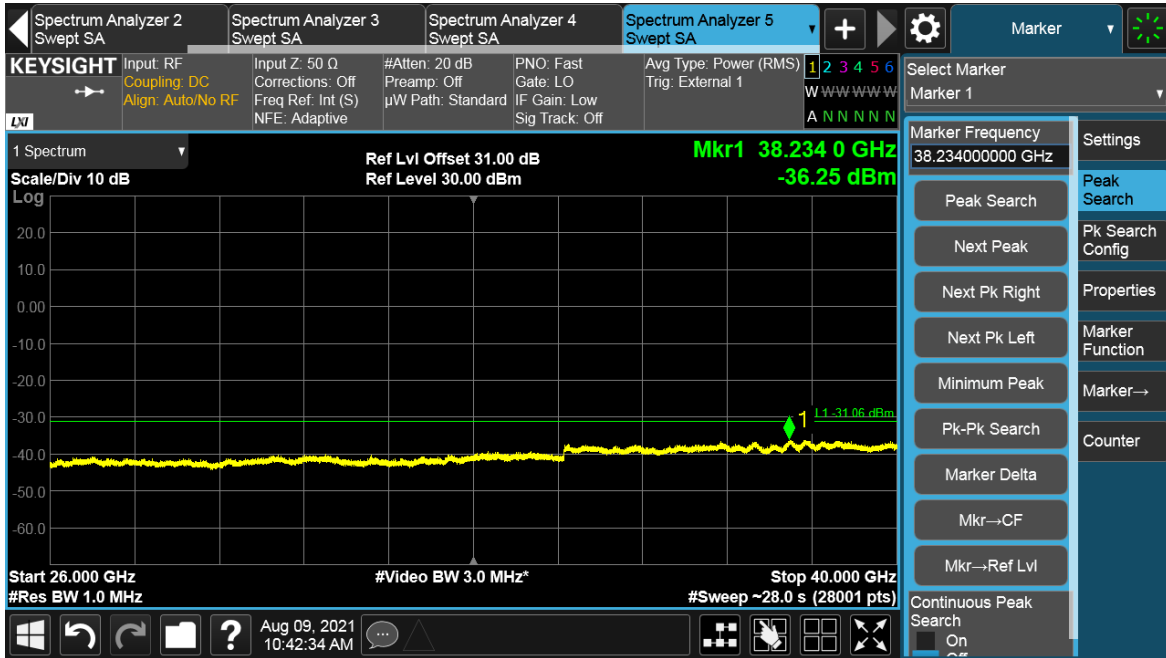
Total Quality. Assured.

TEST REPORT



Total Quality. Assured.

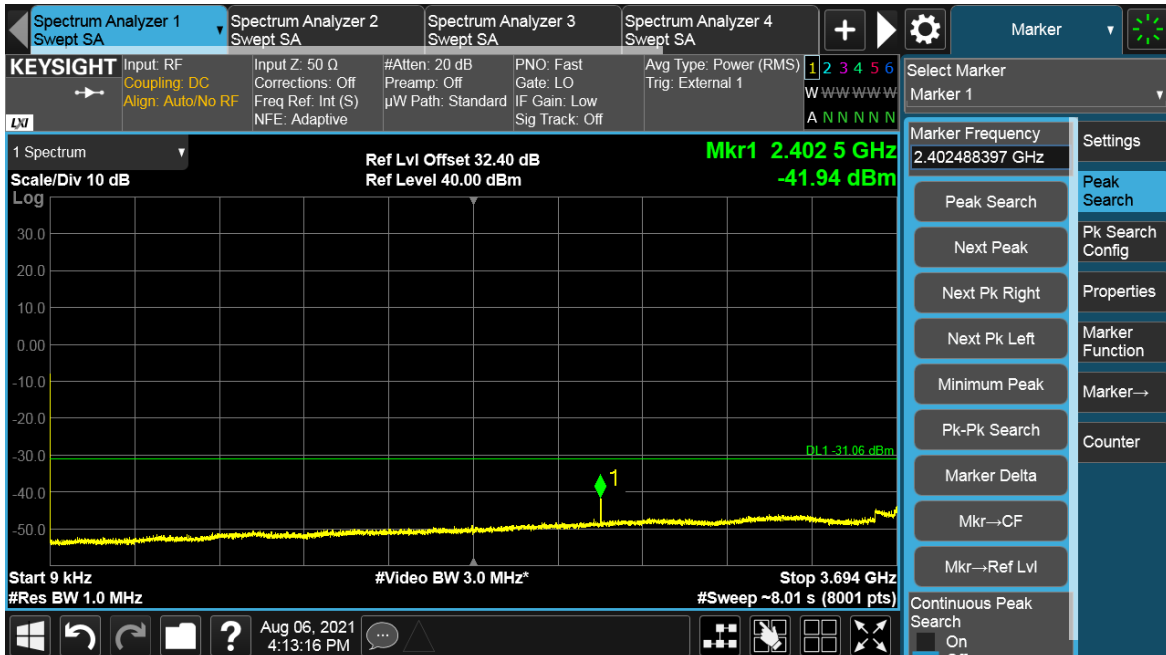
TEST REPORT



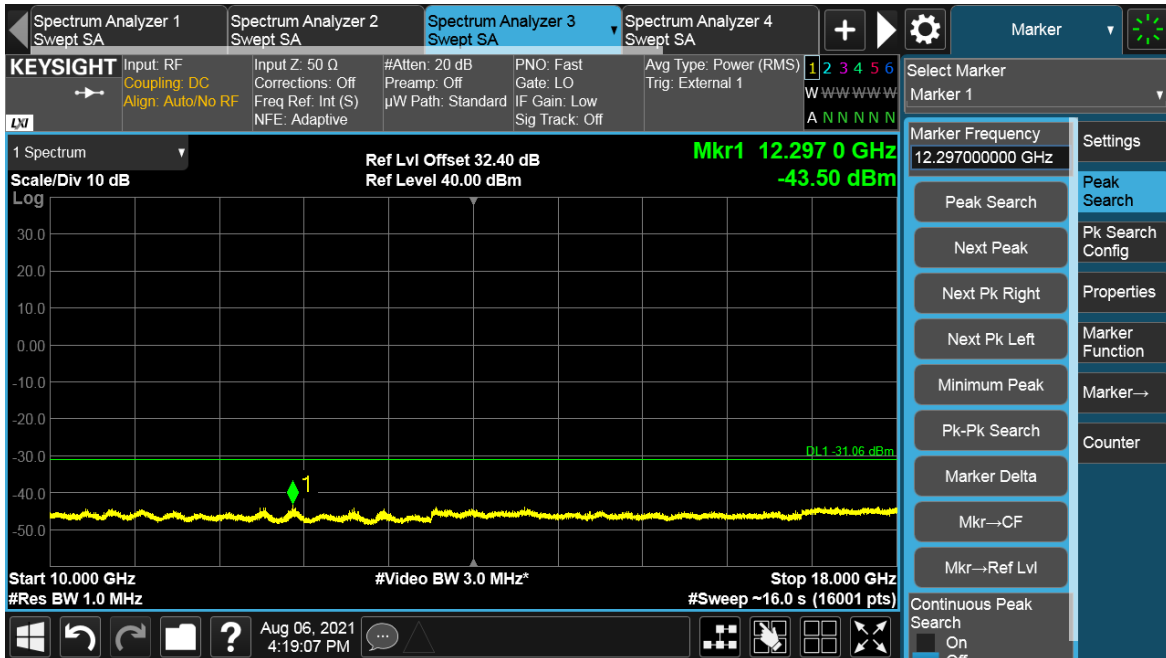
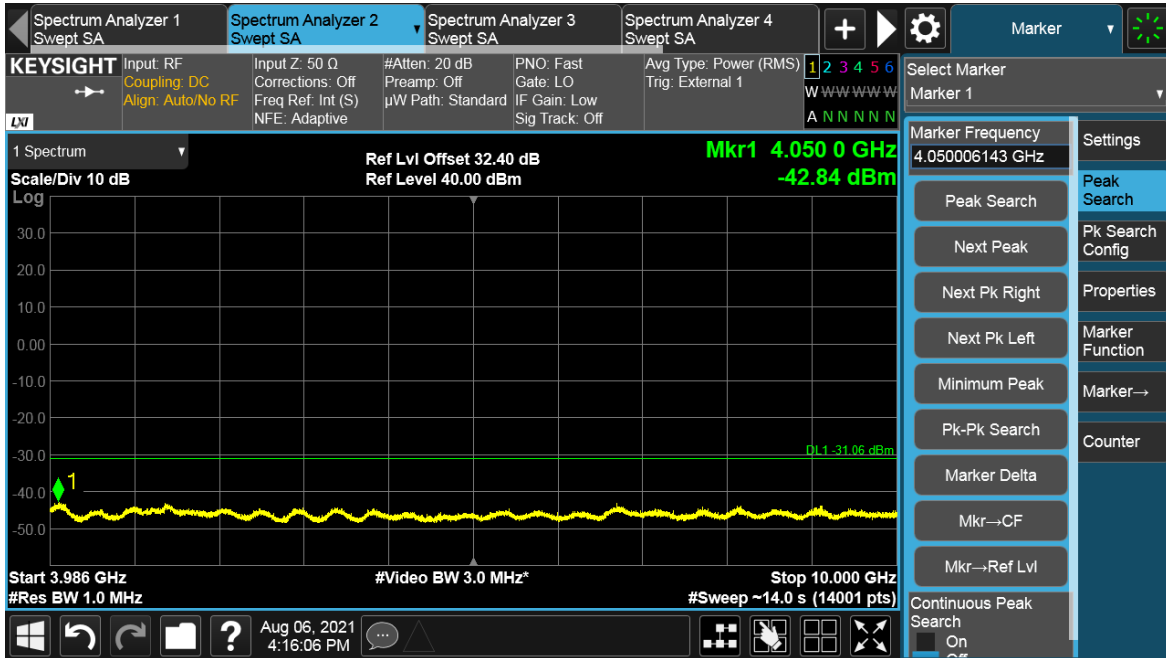
NR-MIMO-2C-BE-70M-320W

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
17	B	16QAM	70	1000	-31.06
17	T	16QAM	70	1000	-31.06

Channel Position B

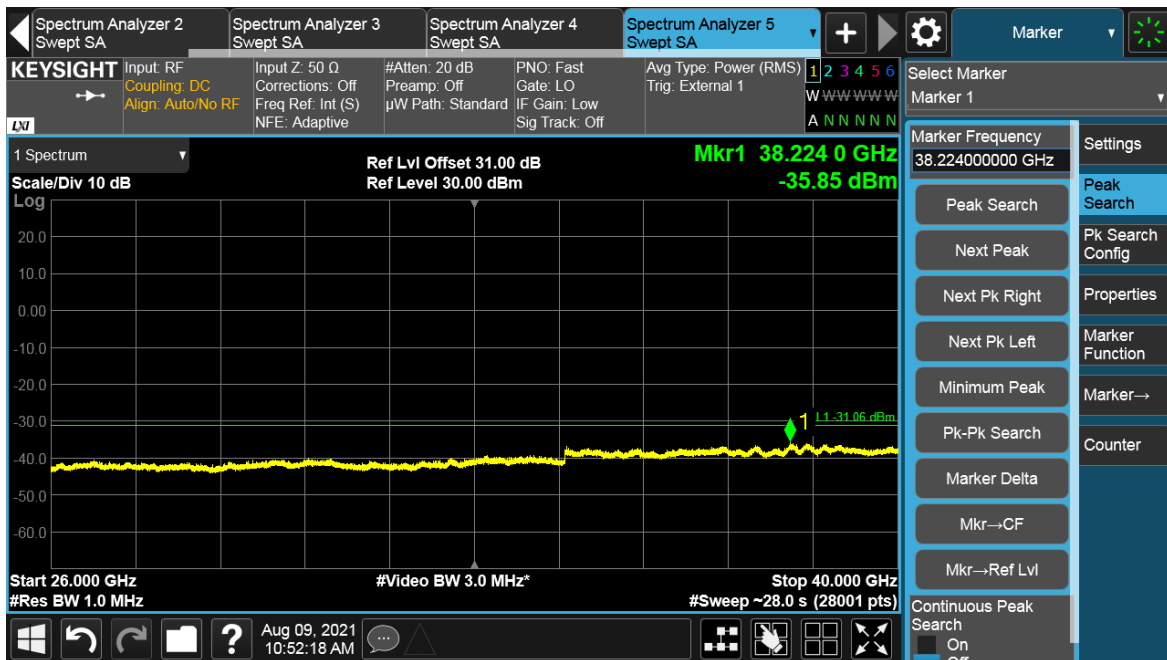
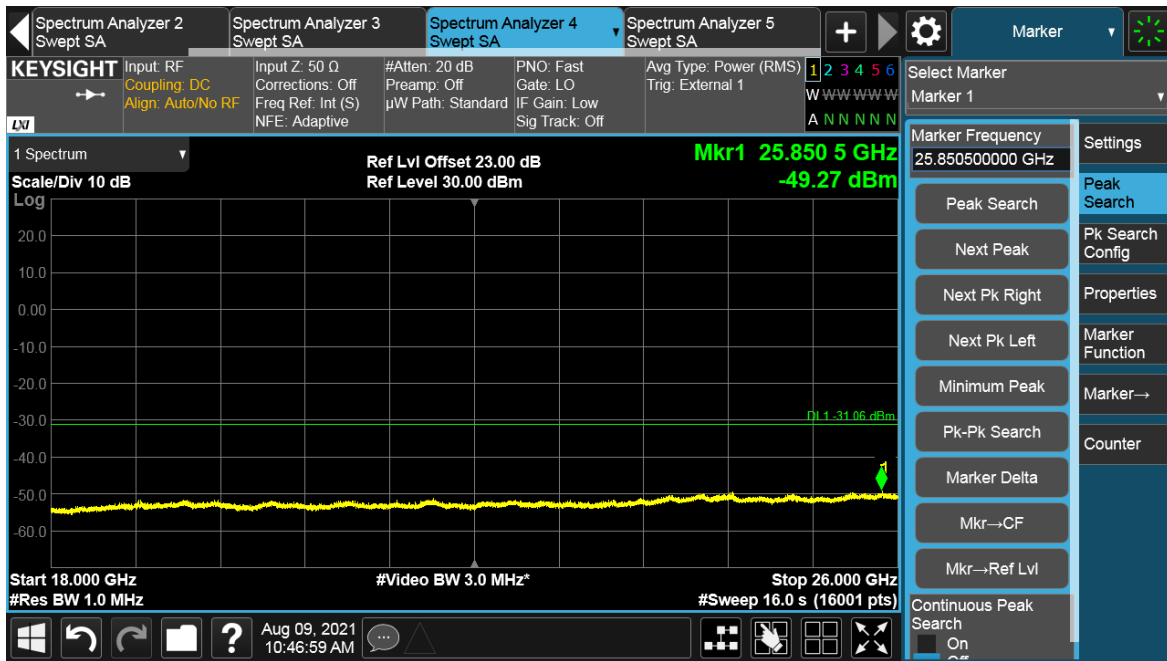


TEST REPORT

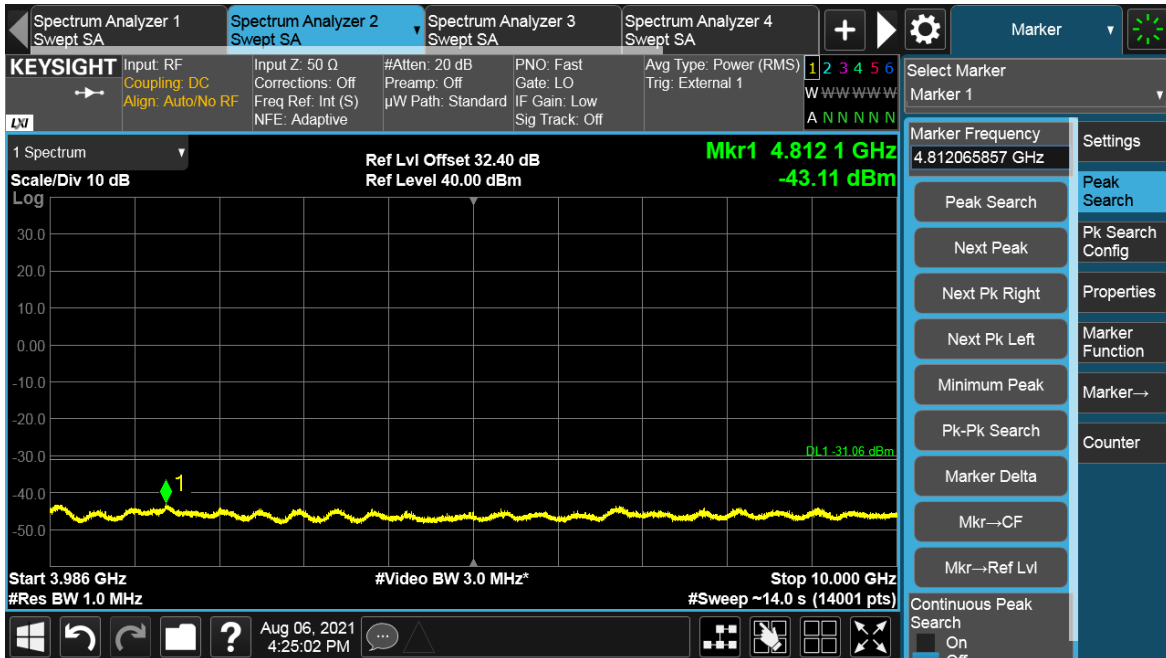
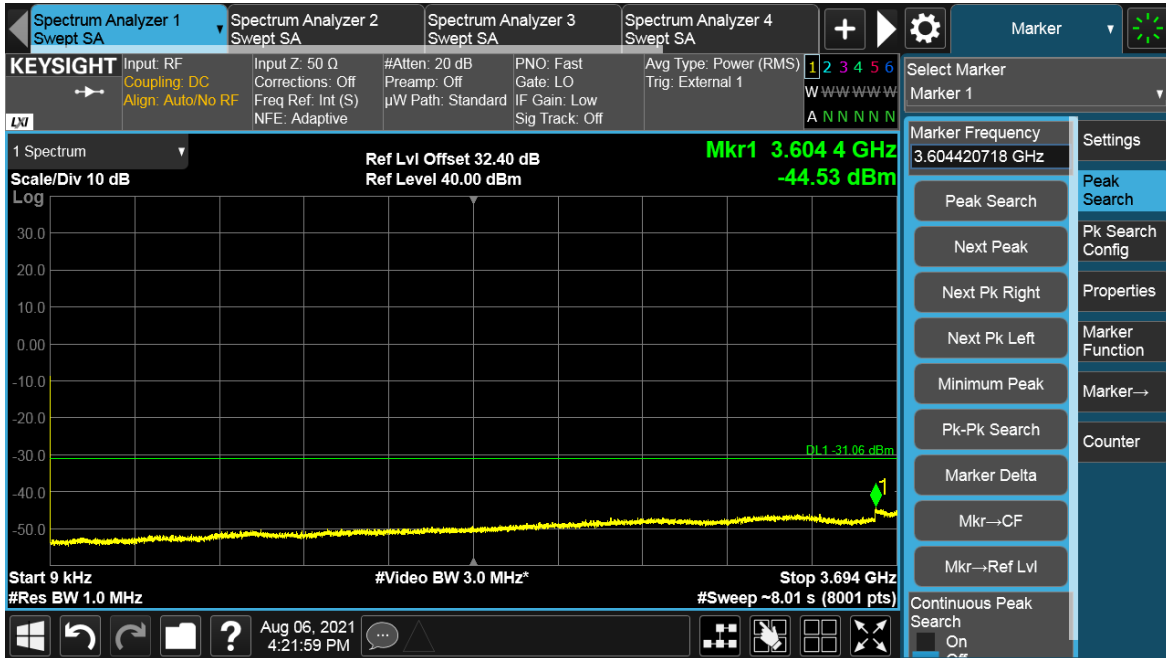


Total Quality. Assured.

TEST REPORT

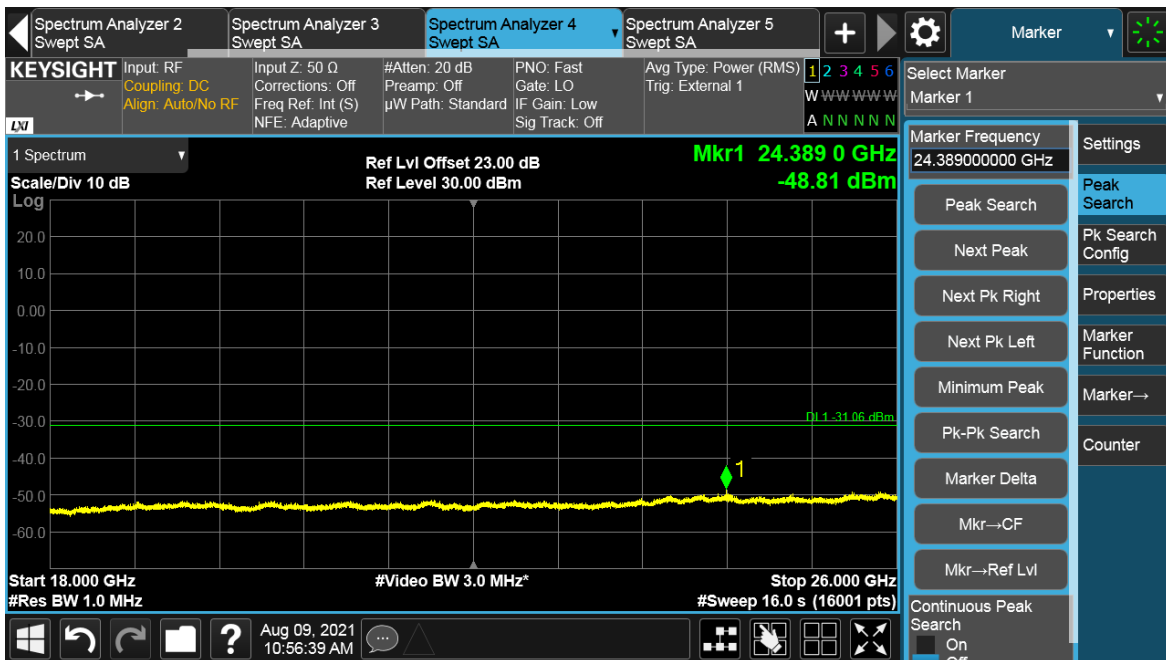
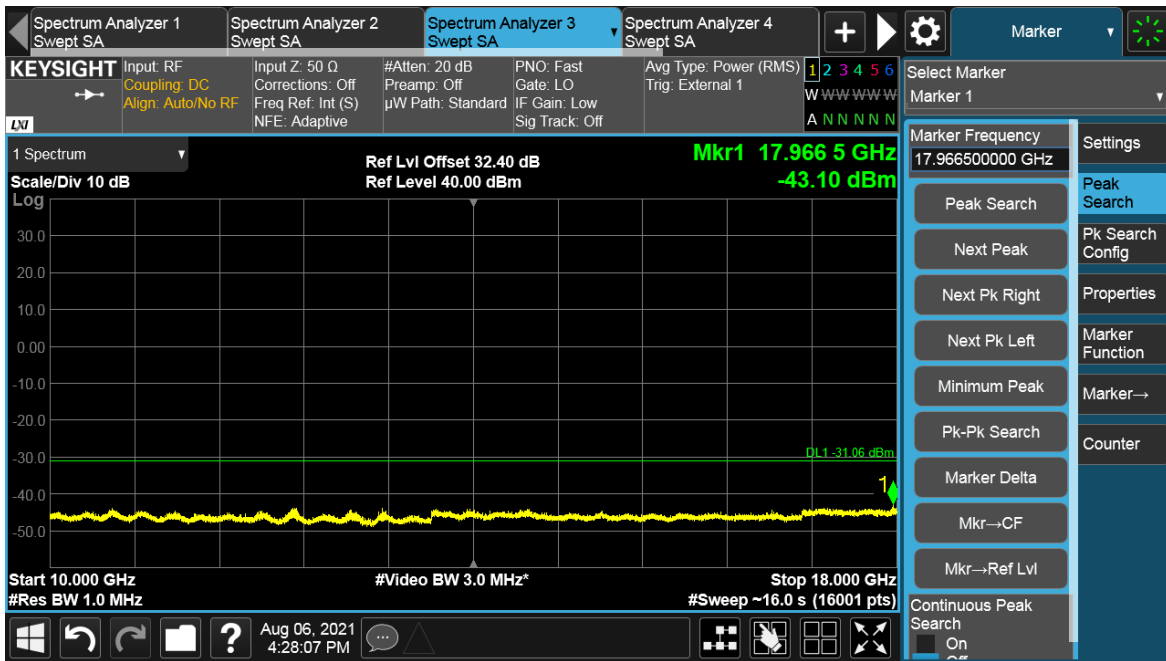


Channel Position T



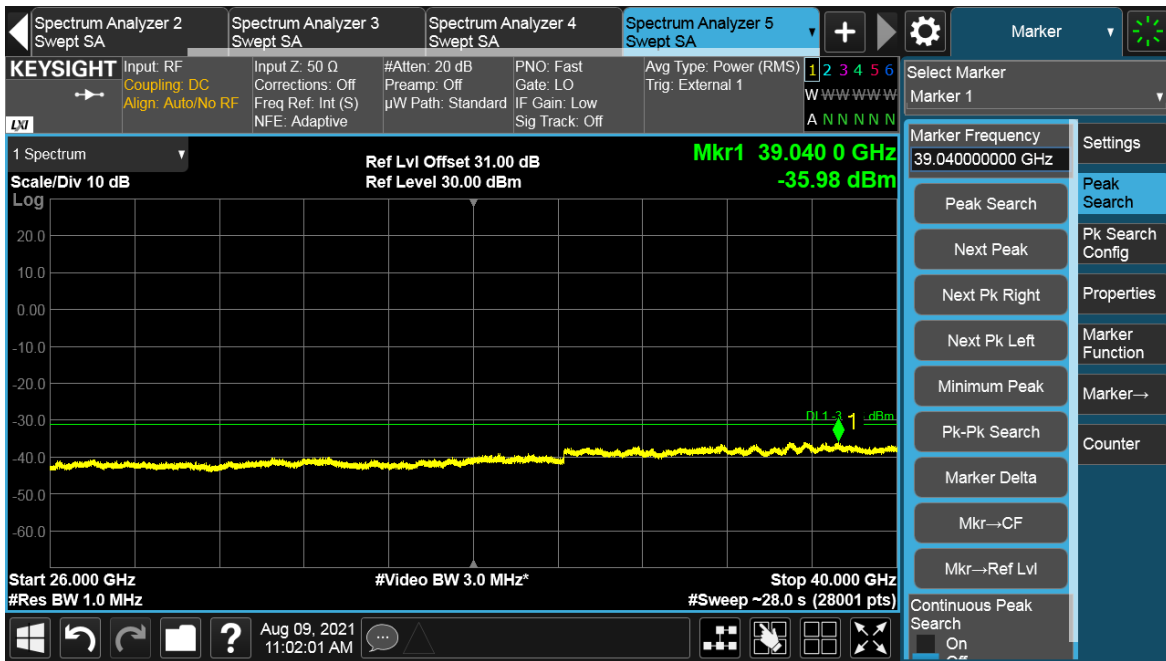
Total Quality. Assured.

TEST REPORT



Total Quality. Assured.

TEST REPORT



NR-MIMO-2C-BE-90M-320W

Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
17	B	16QAM	90	1000	-31.06
17	T	16QAM	90	1000	-31.06

Channel Position B

