

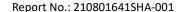
# NR-MIMO-2C-70M-320W & NR-MIMO-2C-90M-320W

# 99% Occupied Bandwidth

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

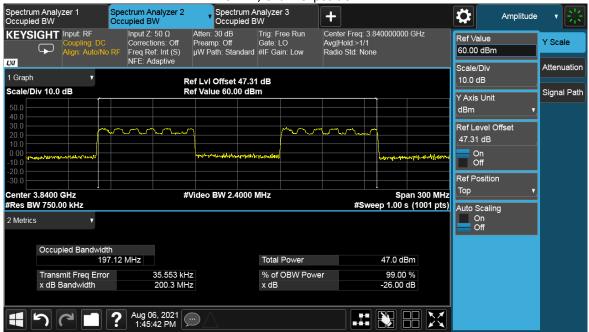
# -26dBc Occupied Bandwidth

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

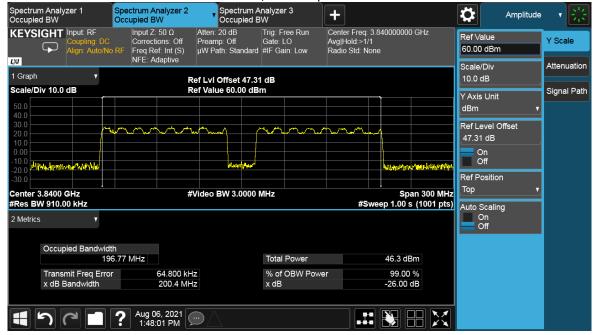




# 70MHz, Channel position M



# 90MHz, Channel position M





Report No.: 210801641SHA-001

# 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 + 10log(P) dB.

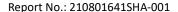
# 5.2 Measurement Procedure

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 + 10log(P) dB.

For MIMO mode configurations, the limit was adjusted with a correction of -18.06dB [10Log(1/64)] by using the Measure and Add 10Log(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 > 1MHz away from the band edges.

Spectrum analyzer detector was set as RMS.



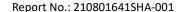


# 5.3 Measurement result

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

Ante	enna	Channel	Modulation	Channel Bandwidth	RBW	Limit
Po	ort	Position		(MHz)	(kHz)	(dBm)
1	7	В	16QAM	70	750	-31.06
1	,	В	IbQAIVI	70	1000	-31.06
1	7	т	16QAM	70	750	-31.06
1	17	'		70	1000	-31.06

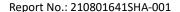












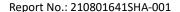




## NR-MIMO-1C-BE-90M-320W

Antenna	Channel	Modulation	Channel Bandwidth	RBW	Limit
Port	Position		(MHz)	(kHz)	(dBm)
17	В	16QAM	90	910	-31.06
17	В	IOQAIVI		1000	-31.06
17	т	16QAM	00	910	-31.06
17	ı		90	1000	-31.06











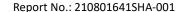




## NR-MIMO-2C-BE-70M-320W

Antenna	Channel	Modulation	Channel Bandwidth	RBW	Limit
Port	Position		(MHz)	(kHz)	(dBm)
17	В	16QAM	70	750	-31.06
17	Б	IOQAIVI		1000	-31.06
17	т	160414	70	750	-31.06
1/	1	16QAM		1000	-31.06

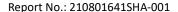












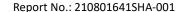




## NR-MIMO-2C-BE-90M-320W

Antenna	Channel	Modulation	Channel Bandwidth	RBW	Limit
Port	Position		(MHz)	(kHz)	(dBm)
17	В	16QAM	70	910	-31.06
1/	D	IOQAIVI		1000	-31.06
17	т	16QAM	70	910	-31.06
17	ı		70	1000	-31.06

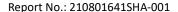


















Report No.: 210801641SHA-001

# 6 Conducted Unwanted Emission

Test result: Pass

# 6.1 Limit

**TEST REPORT** 

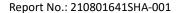
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB.

# **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 [10Log(1/64)] by using the Measure and Add 10Log(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.



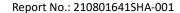


# 6.3 Measurement result

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

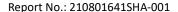
Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
17	В	16QAM	70	1000	-31.06
17	Т	16QAM	70	1000	-31.06

#### Channel Position B Spectrum Analyzer 2 Swept SA Spectrum Analyzer 3 Swept SA Spectrum Analyzer 4 Swept SA Spectrum Analyzer 1 Swept SA Marker #Atten: 20 dB PNO: Fast Preamp: Off Gate: LO µW Path: Standard IF Gain: Low Sig Track: Off Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive Avg Type: Power (RMS) 1 2 3 4 5 6 Trig: External 1 KEYSIGHT Input: RF Select Marker wwwww Marker 1 ANNNNN LΧΙ Marker Frequency Settings Mkr1 3.692 6 GHz 1 Spectrum 3.692614753 GHz Ref LvI Offset 32.40 dB Ref Level 40.00 dBm -43.36 dBm Scale/Div 10 dB Peak Search Search Pk Search Config Next Peak Next Pk Right Properties Marker Function Next Pk Left Minimum Peak $Marker \rightarrow$ Pk-Pk Search Counter Marker Delta Mkr→CF Mkr→Ref LvI Stop 3.694 GHz #Sweep ~8.01 s (8001 pts) Start 9 kHz #Video BW 3.0 MHz\* #Res BW 1.0 MHz Continuous Peak Aug 06, 2021 3:36:57 PM ? ₩

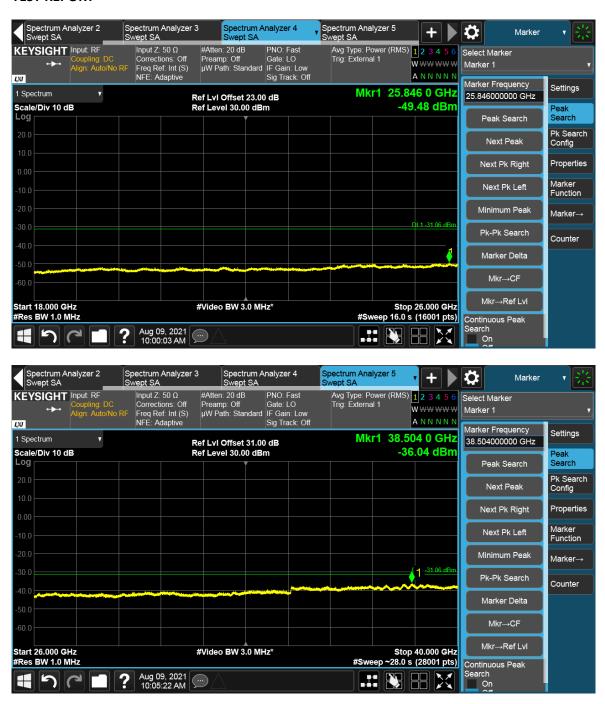






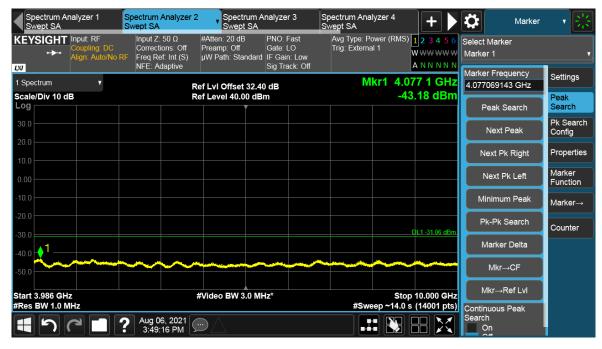


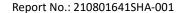






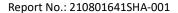










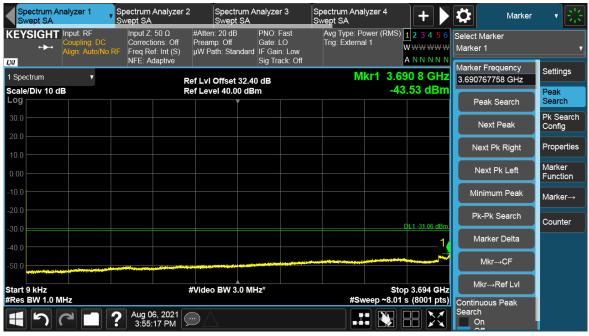


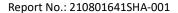




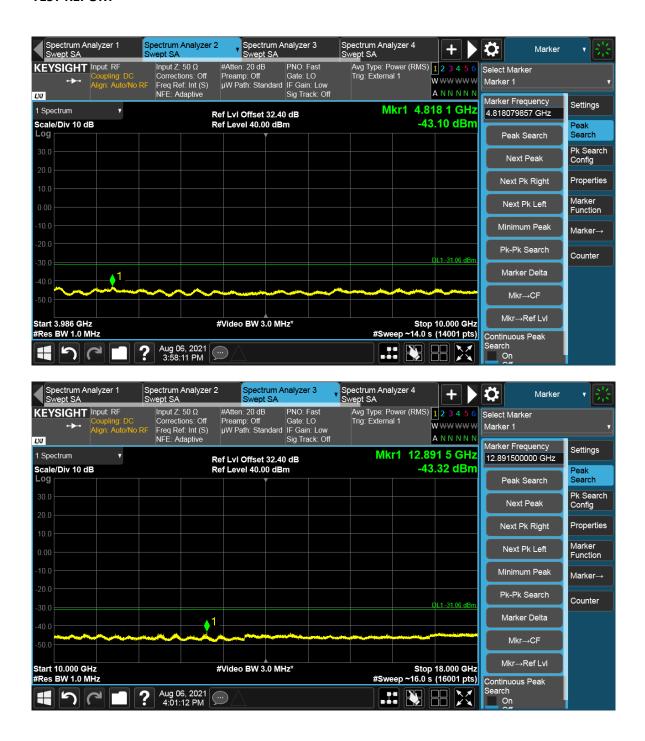
## NR-MIMO-1C-BE-90M-320W

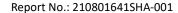
	Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
	17	В	16QAM	90	1000	-31.06
Ī	17	Т	16QAM	90	1000	-31.06



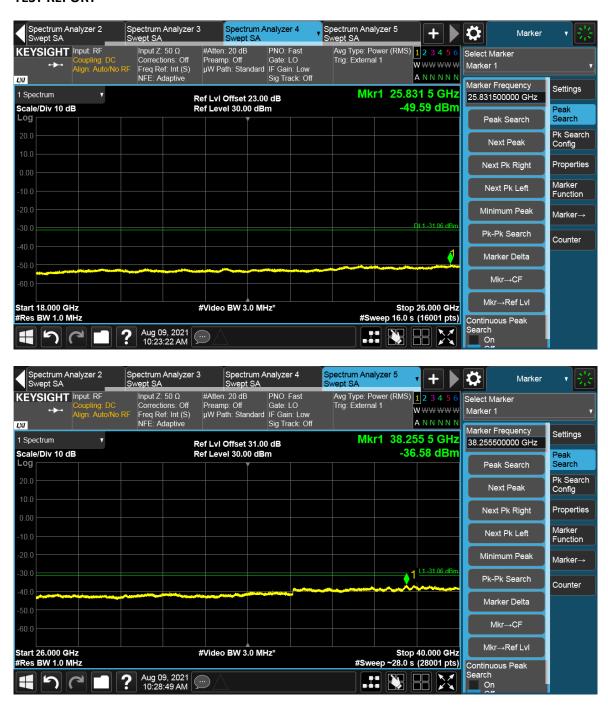








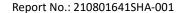






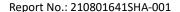




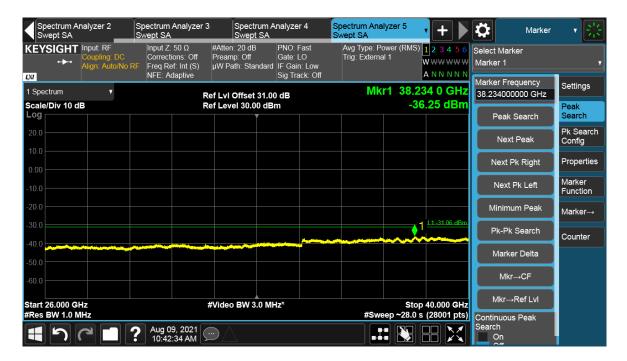






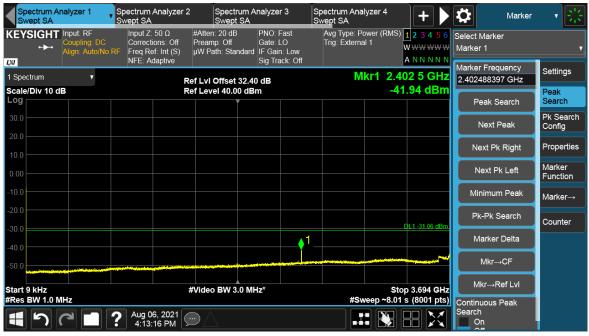


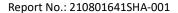




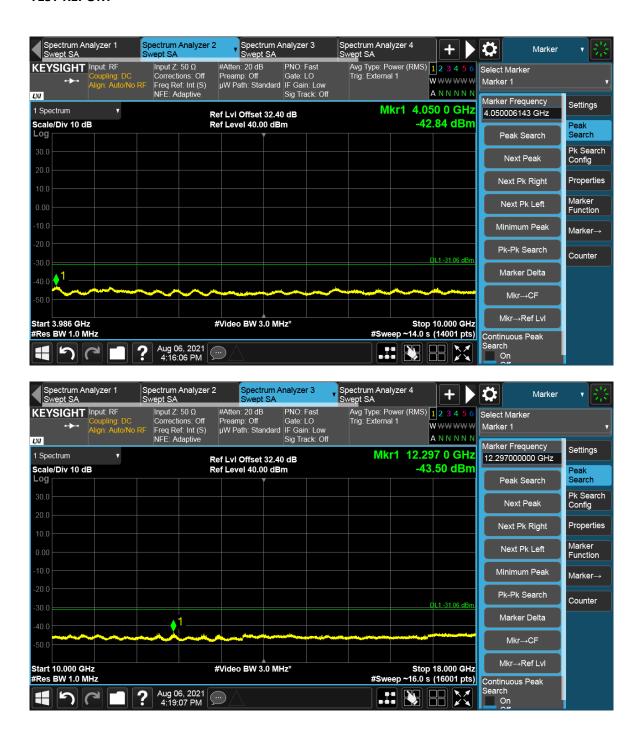
## NR-MIMO-2C-BE-70M-320W

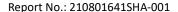
Antenna Port	Channel Position	Modulation	Channel Bandwidth (MHz)	RBW (kHz)	Limit (dBm)
17	В	16QAM	70	1000	-31.06
17	Т	16QAM	70	1000	-31.06



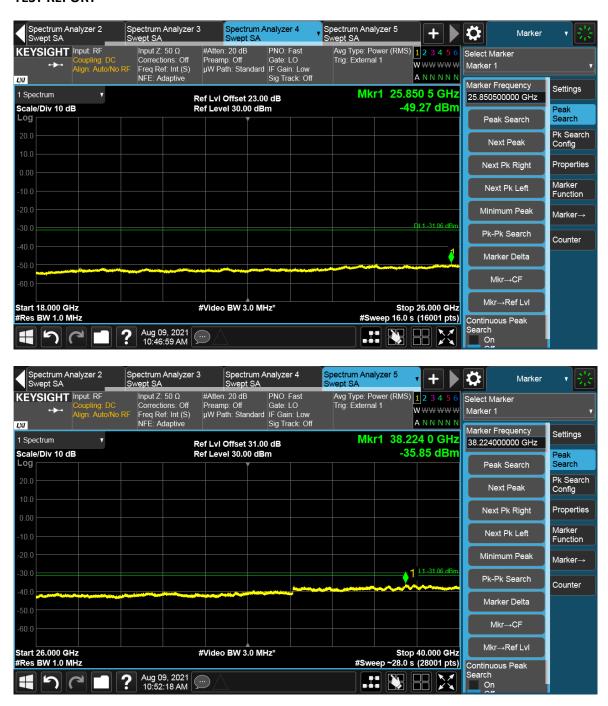








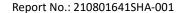






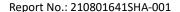
















## NR-MIMO-2C-BE-90M-320W

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

