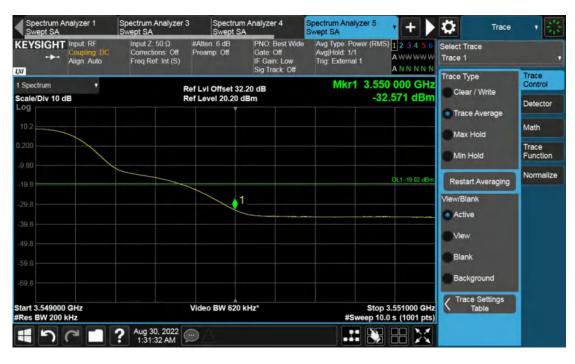




Channel Position B











Channel Position T





## 9.4 Conducted Unwanted Emissions

Specification:	FCC Part 27.53(n)
Test Results:	Pass

#### 9.4.1 Definitions and Limit

#### According to Part 27.53 (n):

The following emission limits apply to stations transmitting in the 3450-3550 MHz band:

(1) For base station operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed –13 dBm/MHz. Compliance with the provisions of this paragraph (n)(1) 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 frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. 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. Notwithstanding the channel edge requirement of –13 dBm per megahertz, for base station operations in the 3450-3550 MHz band, the conducted power of any emission below 3440 MHz or above 3560 MHz shall not exceed –25 dBm/MHz, and the conducted power of emissions below 3430 MHz or above 3570 MHz shall not exceed –40 dBm/MHz.

#### 9.3.2 Method of Measurements:

The conducted power of any emission outside the licensee's authorized bandwidth shall not exceed –13 dBm/MHz. In the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. Notwithstanding the channel edge requirement of –13 dBm per megahertz, for base station operations in the 3450-3550 MHz band, the conducted power of any emission below 3440 MHz or above 3560 MHz shall not exceed –25 dBm/MHz, and the conducted power of emissions below 3430 MHz or above 3570 MHz shall not exceed –40 dBm/MHz.

For MIMO mode configurations, the limit was adjusted with a correction of -6.02dB [10log1 /4)] 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.

Spectrum analyzer detector was set as RMS.





#### 9.4.3 Measurement result

# Configuration NR-MIMO-1C-UE

Antenna Port	Channel Position	Modulation	Carrier Bandwidth	RBW (kHz)	Limit (dBm)
С	В	QPSK	20	1000	-46.02
С	Т	QPSK	20	1000	-46.02

### Test figure as below:



Channel Position B, 9kHz to 3200MHz





Channel Position B, 3200MHz to 3430MHz



Channel Position B, 3570MHz to 3700MHz





Channel Position B, 3700MHz to 6GHz

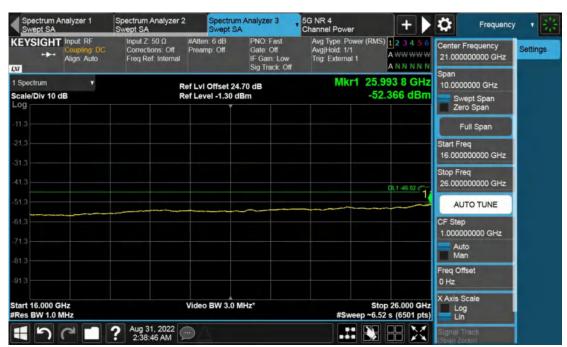


Channel Position B, 6GHz to 12.75GHz



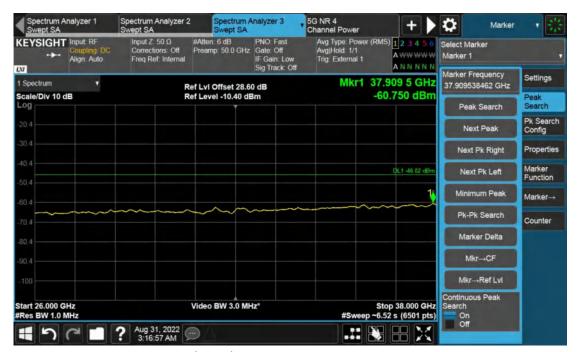


Channel Position B, 12.75GHz to 16GHz



Channel Position B, 16GHz to 26GHz





Channel Position B, 26GHz to 38GHz



Channel Position T, 9kHz to 3200MHz





Channel Position T, 3200MHz to 3430MHz



Channel Position T, 3570MHz to 3700MHz





Channel Position T, 3700MHz to 6GHz

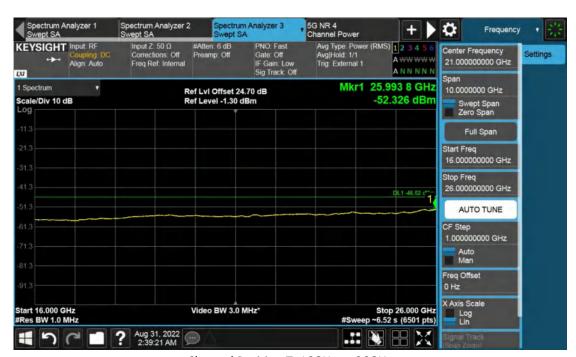


Channel Position T, 6GHz to 12.75GHz



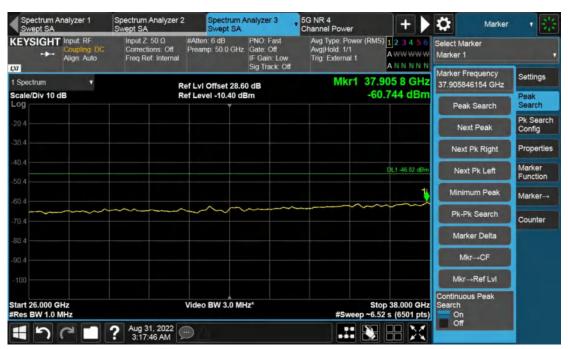


Channel Position T, 12.75GHz to 16GHz



Channel Position T, 16GHz to 26GHz





Channel Position T, 26GHz to 38GHz





### **Configuration NR-MIMO-1C-UE**

Antenna Port	Channel Position	Modulation	Carrier Bandwidth	RBW (kHz)	Limit (dBm)
С	В	QPSK	30	1000	-46.02
С	Т	QPSK	30	1000	-46.02

### Test figure as below:



Channel Position B, 9kHz to 3200MHz





Channel Position B, 3200MHz to 3430MHz

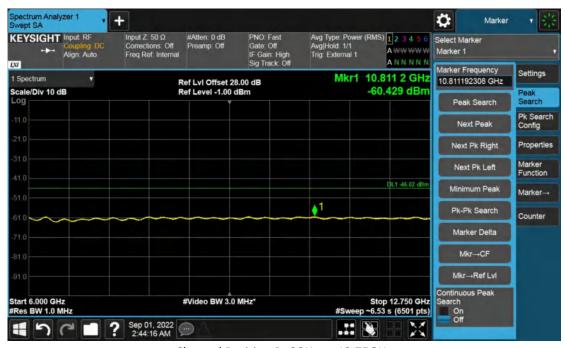


Channel Position B, 3570MHz to 3700MHz





Channel Position B, 3700MHz to 6GHz



Channel Position B, 6GHz to 12.75GHz





Channel Position B, 12.75GHz to 16GHz



Channel Position B, 16GHz to 26GHz





Channel Position B, 26GHz to 38GHz



Channel Position T, 9kHz to 3200MHz





Channel Position T, 3200MHz to 3430MHz



Channel Position T, 3570MHz to 3700MHz





Channel Position T, 3700MHz to 6GHz

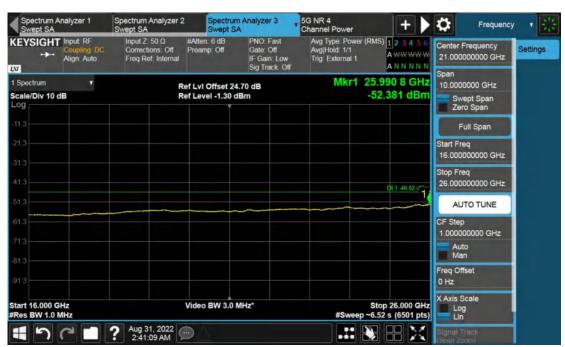


Channel Position T, 6GHz to 12.75GHz





Channel Position T, 12.75GHz to 16GHz



Channel Position T, 16GHz to 26GHz





Channel Position T, 26GHz to 38GHz





## **Configuration NR-MIMO-1C-UE**

Antenna Port	Channel Position	Modulation	Carrier Bandwidth	RBW (kHz)	Limit (dBm)
С	В	QPSK	40	1000	-46.02
С	Т	QPSK	40	1000	-46.02

### Test figure as below:



Channel Position B, 9kHz to 3200MHz





Channel Position B, 3200MHz to 3430MHz

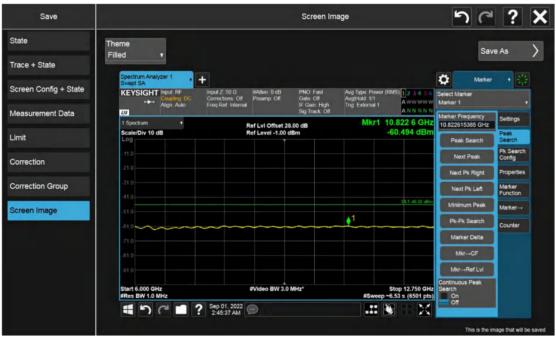


Channel Position B, 3570MHz to 3700MHz





Channel Position B, 3700MHz to 6GHz

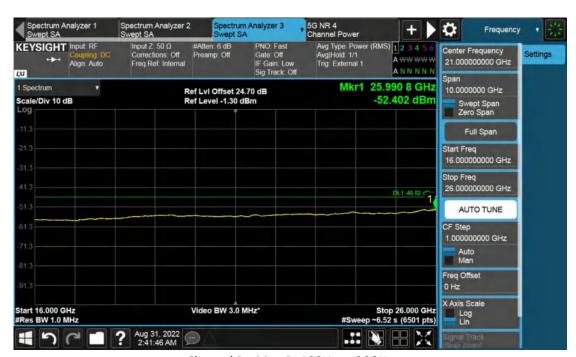


Channel Position B, 6GHz to 12.75GHz





Channel Position B, 12.75GHz to 16GHz

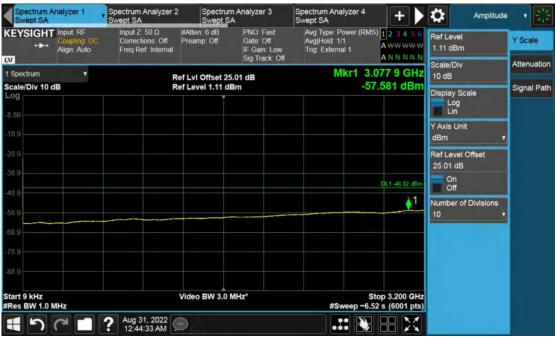


Channel Position B, 16GHz to 26GHz





Channel Position B, 26GHz to 38GHz



Channel Position T, 9kHz to 3200MHz



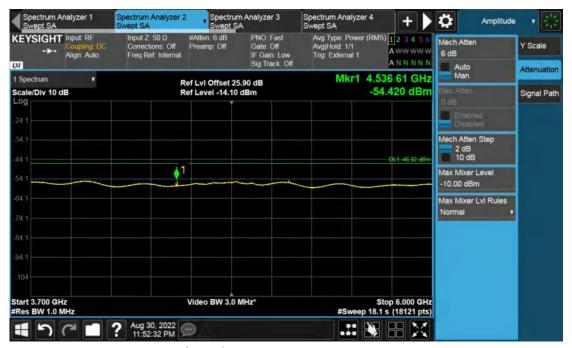


Channel Position T, 3200MHz to 3430MHz



Channel Position T, 3570MHz to 3700MHz





Channel Position T, 3700MHz to 6GHz



Channel Position T, 6GHz to 12.75GHz





Channel Position T, 12.75GHz to 16GHz



Channel Position T, 16GHz to 26GHz





Channel Position T, 26GHz to 38GHz





## **Configuration NR-MIMO-1C-UE**

Antenna Port	Channel Position	Modulation	Carrier Bandwidth	RBW (kHz)	Limit (dBm)
С	В	QPSK	50	1000	-46.02
С	Т	QPSK	50	1000	-46.02

### Test figure as below:



Channel Position B, 9kHz to 3200MHz





Channel Position B, 3200MHz to 3430MHz



Channel Position B, 3570MHz to 3700MHz





Channel Position B, 3700MHz to 6GHz



Channel Position B, 6GHz to 12.75GHz





Channel Position B, 12.75GHz to 16GHz



Channel Position B, 16GHz to 26GHz





Channel Position B, 26GHz to 38GHz



Channel Position T, 9kHz to 3200MHz





Channel Position T, 3200MHz to 3430MHz



Channel Position T, 3570MHz to 3700MHz



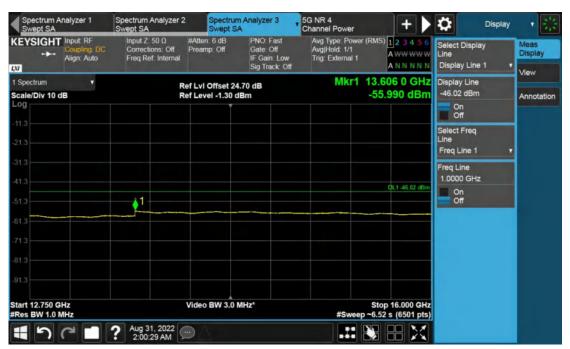


Channel Position T, 3700MHz to 6GHz

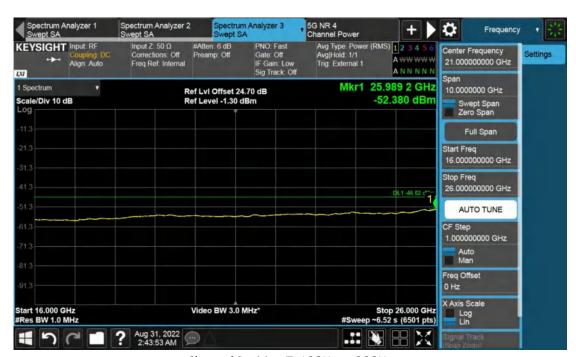


Channel Position T, 6GHz to 12.75GHz





Channel Position T, 12.75GHz to 16GHz



Channel Position T, 16GHz to 26GHz





Channel Position T, 26GHz to 38GHz