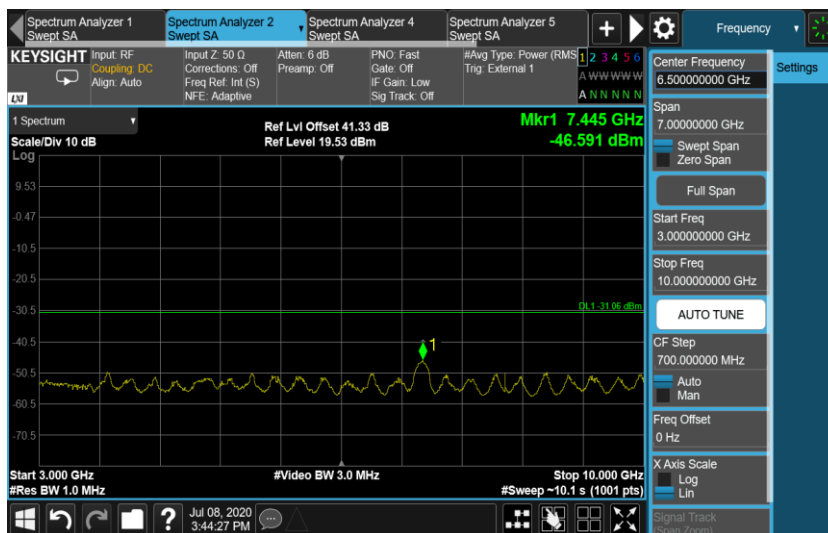
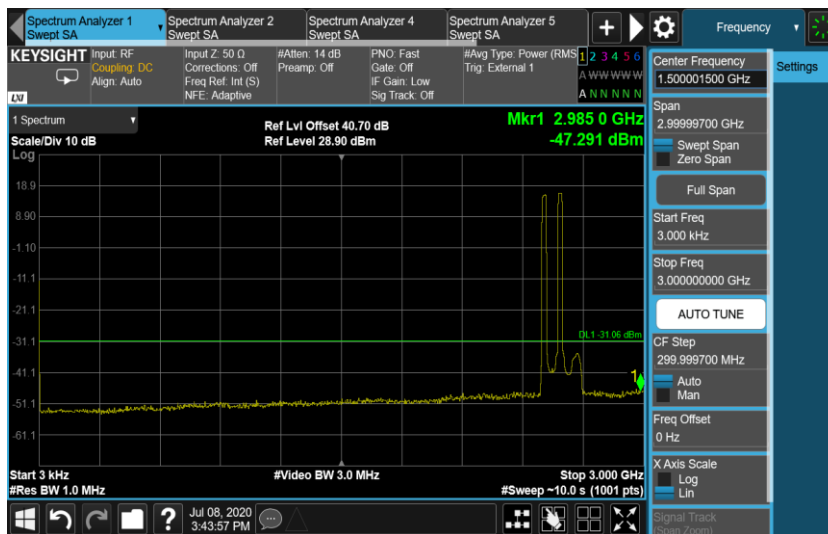


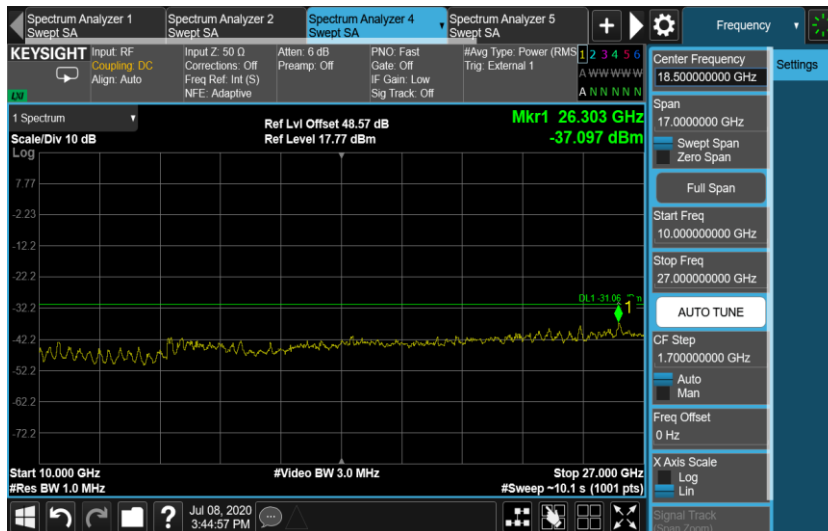
A.4.4 Measurement results

Configuration LTE+NR-MIMO-MC-1 (1L QPSK+1NR QPSK)

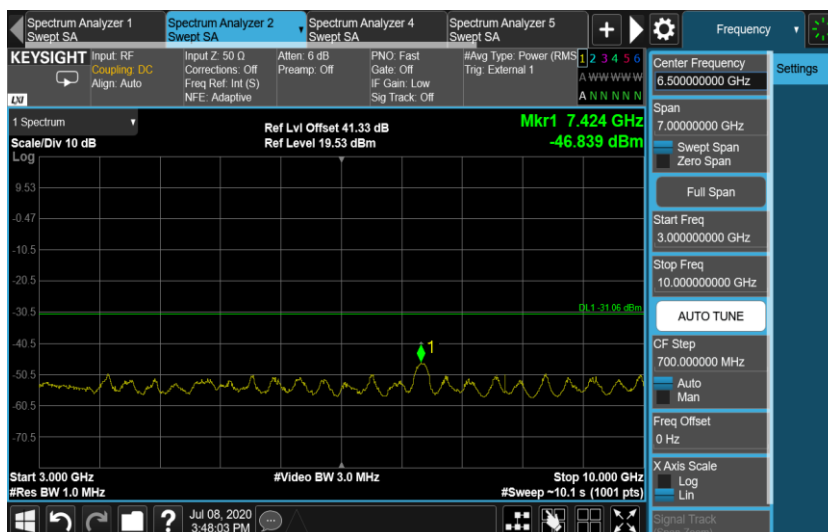
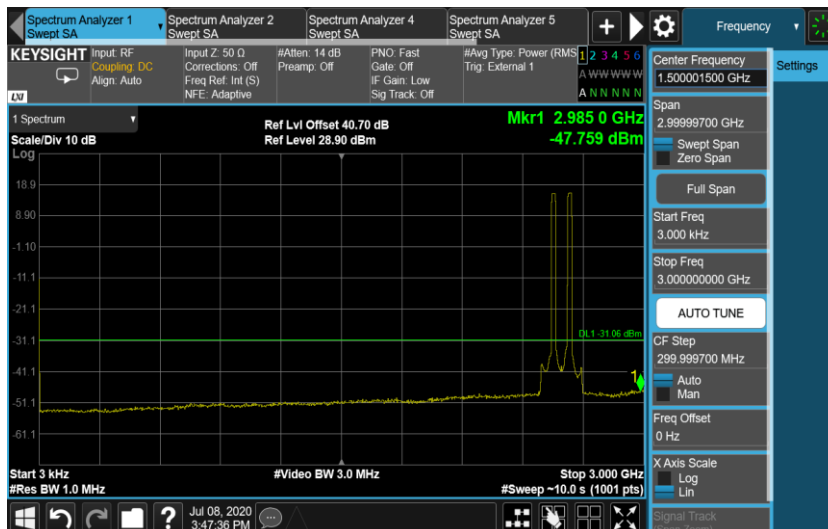
Channel Bandwidth	RBW (MHz)	Limit (dBm)
L: 20.0 MHz NR: 20.0.0 MHz	1.0	-31.06
L: 20.0 MHz NR: 80.0 MHz	1.0	-31.06

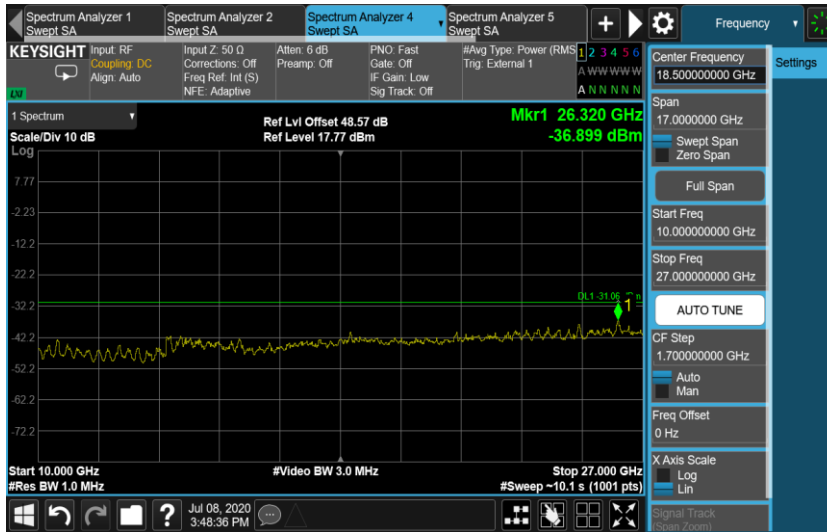
Port 56, Channel Position B, L 20.0 MHz, NR 20.0 MHz



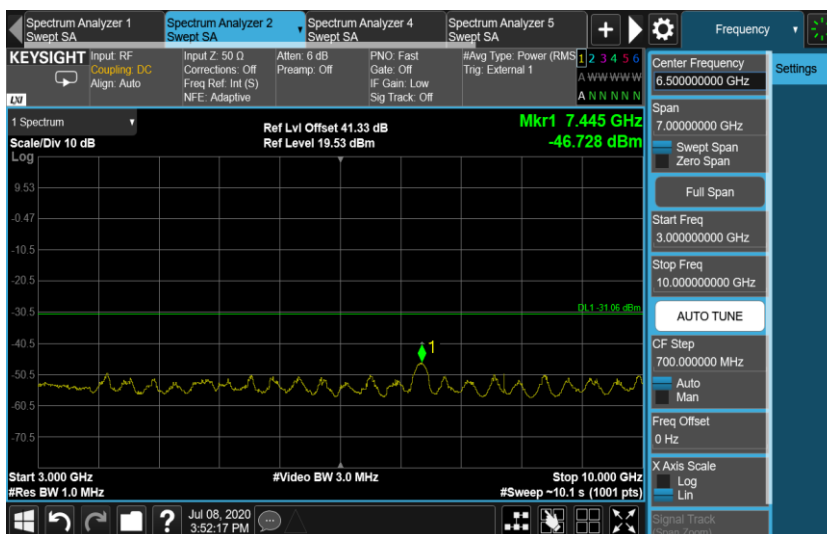
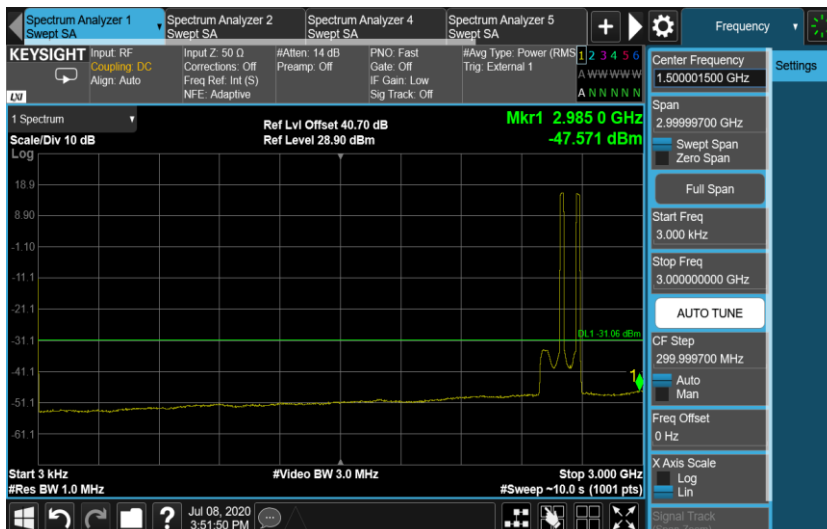


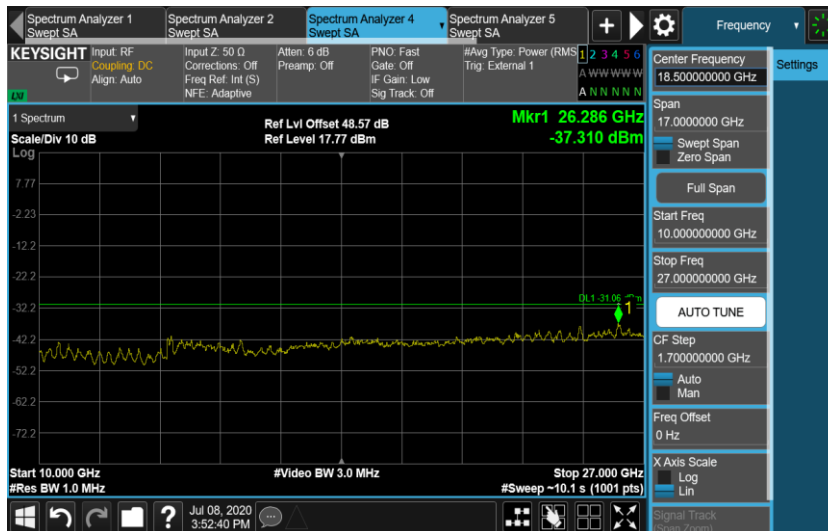
Port 56, Channel Position M, L 20.0 MHz, NR 20.0 MHz



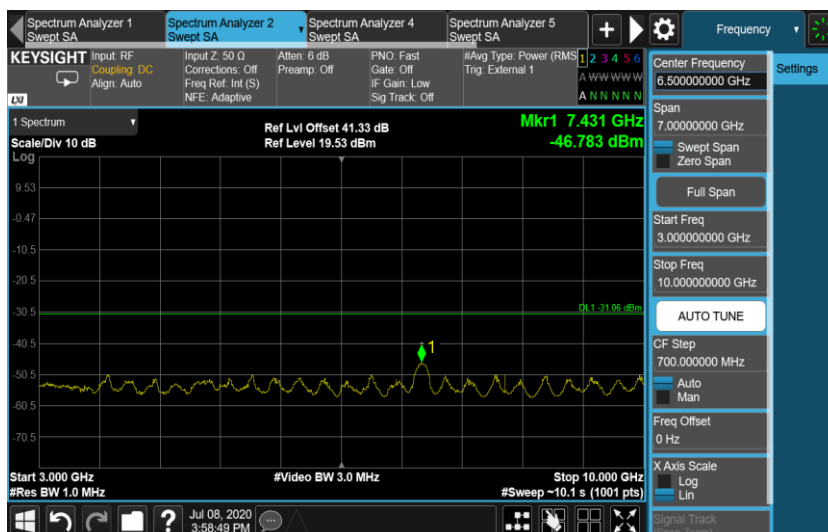
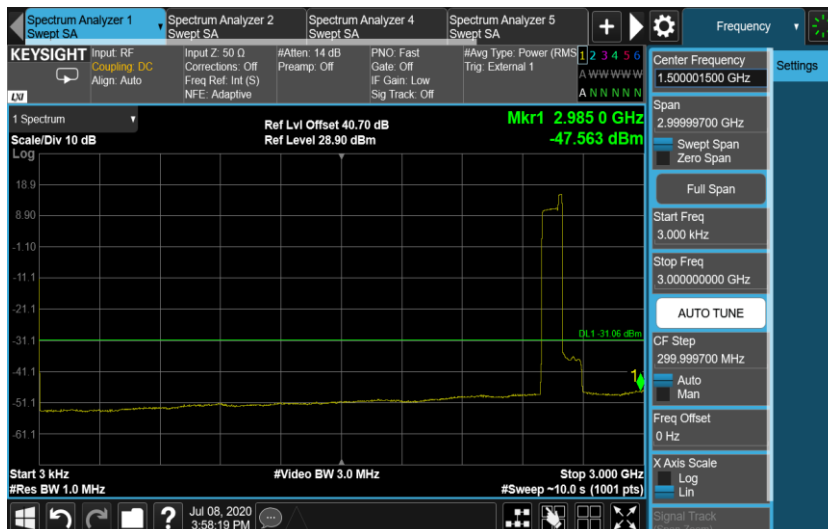


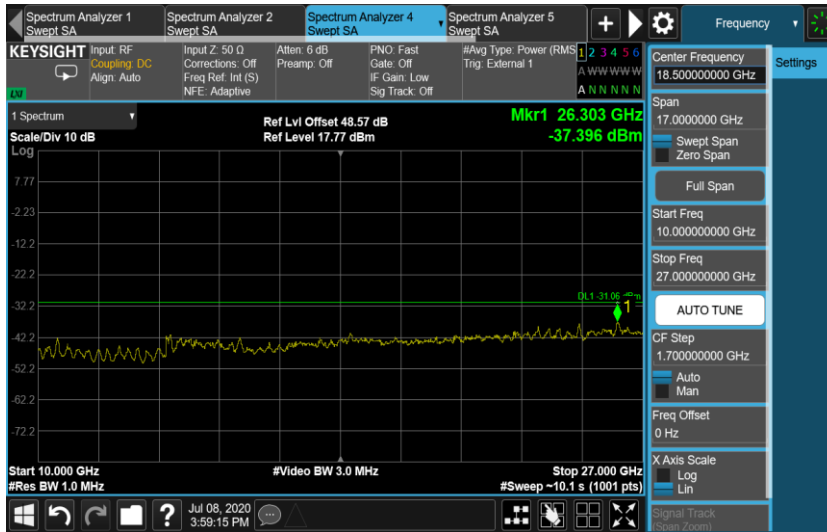
Port 56, Channel Position T, L 20.0 MHz, NR 20.0 MHz



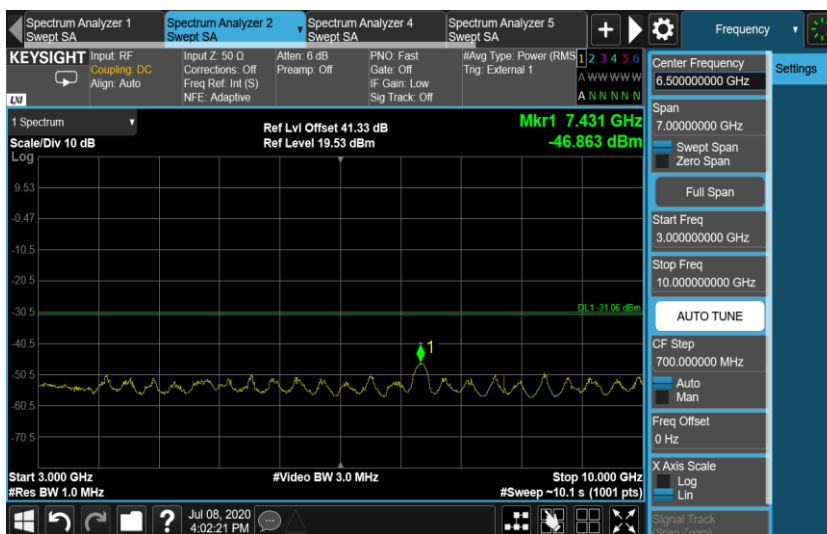
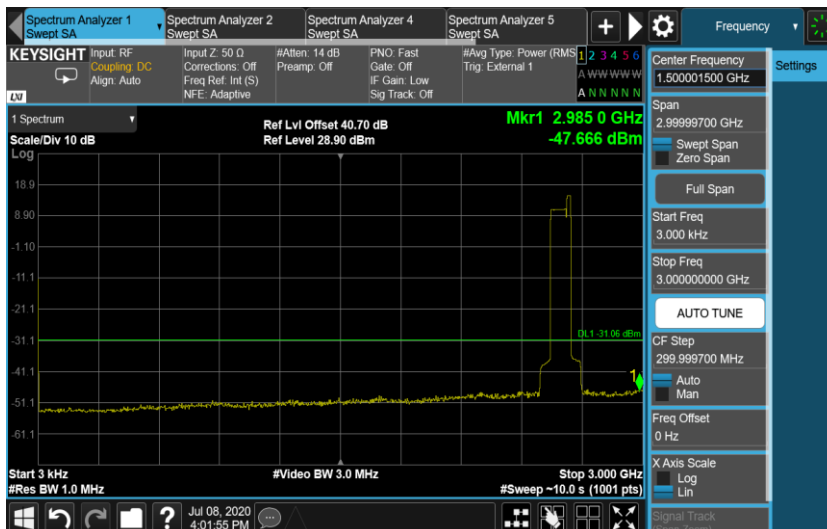


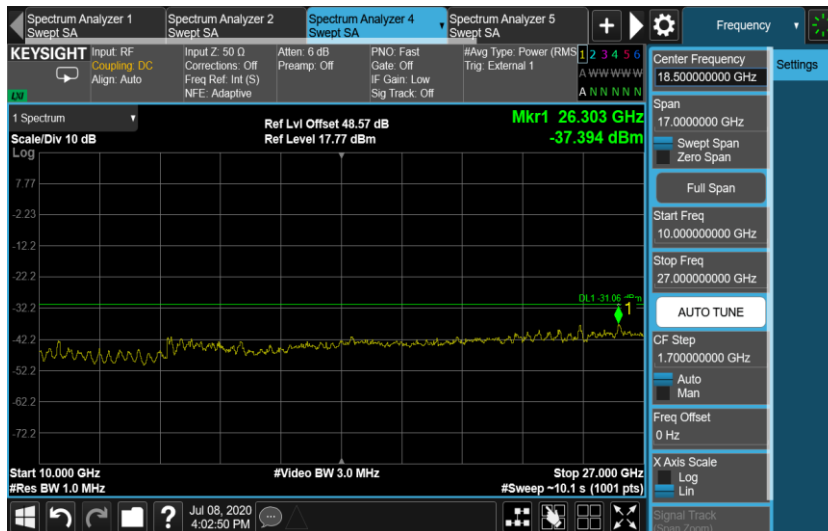
Port 56, Channel Position B, L 20.0 MHz, NR 80.0 MHz



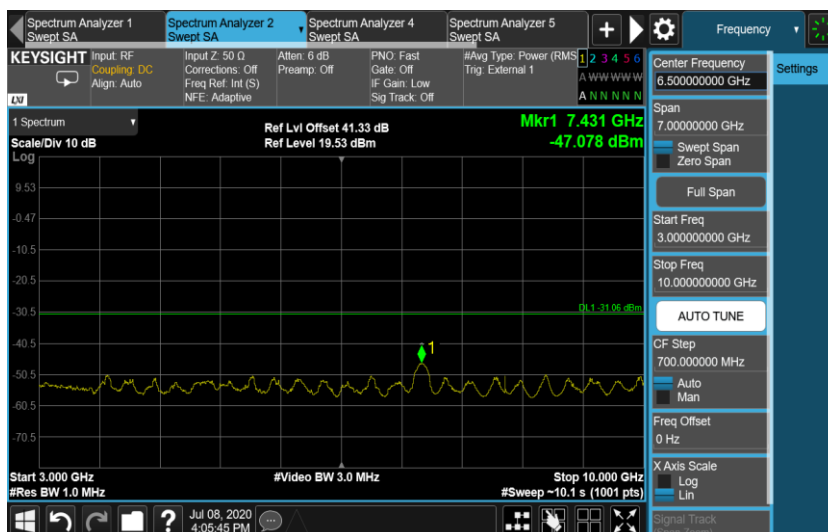


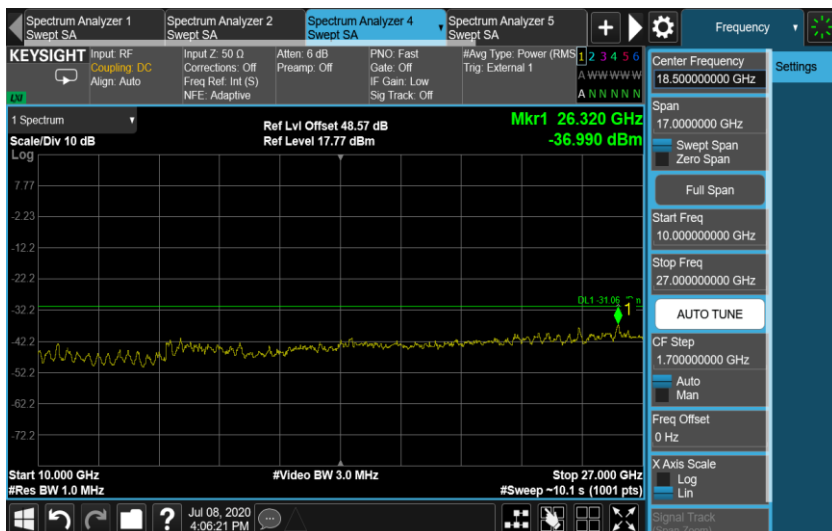
Port 56, Channel Position M, L 20.0 MHz, NR 80.0 MHz





Port 56, Channel Position T, L 20.0 MHz, NR 80.0 MHz

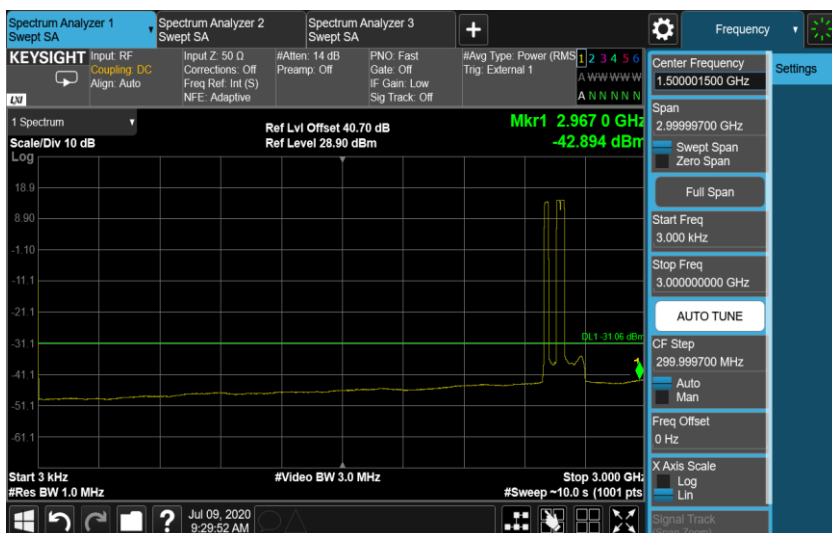


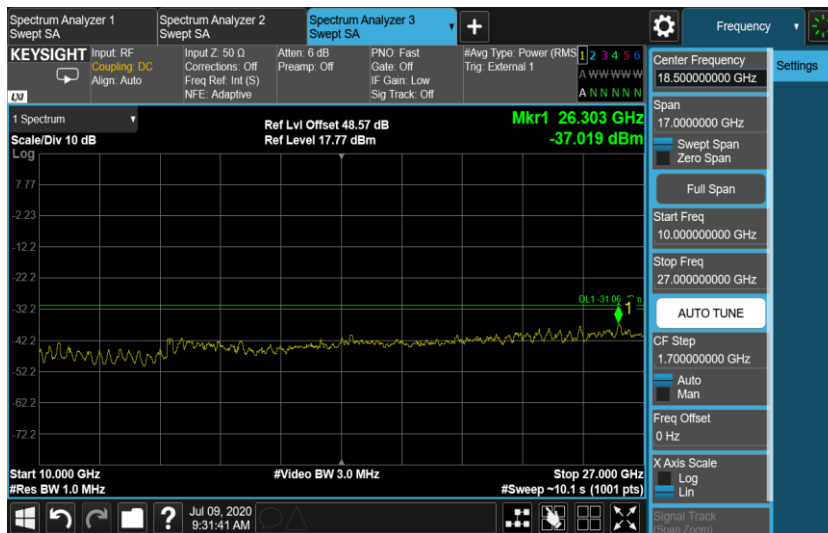
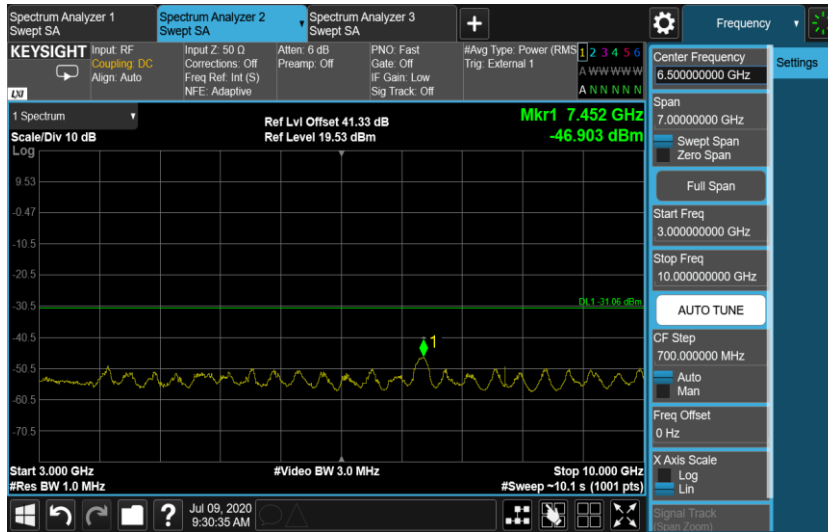


Configuration LTE+NR-MIMO-MC-2(2L QPSK+1NR QPSK)

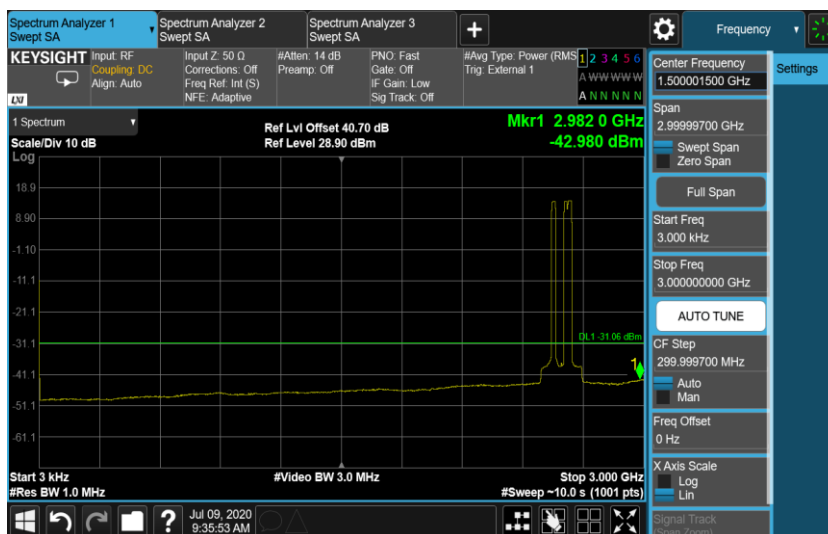
Channel Bandwidth	RBW (MHz)	Limit (dBm)
L: 20.0 MHz NR: 20.0.0 MHz	1.0	-31.06
L: 20.0 MHz NR: 40.0 MHz	1.0	-31.06

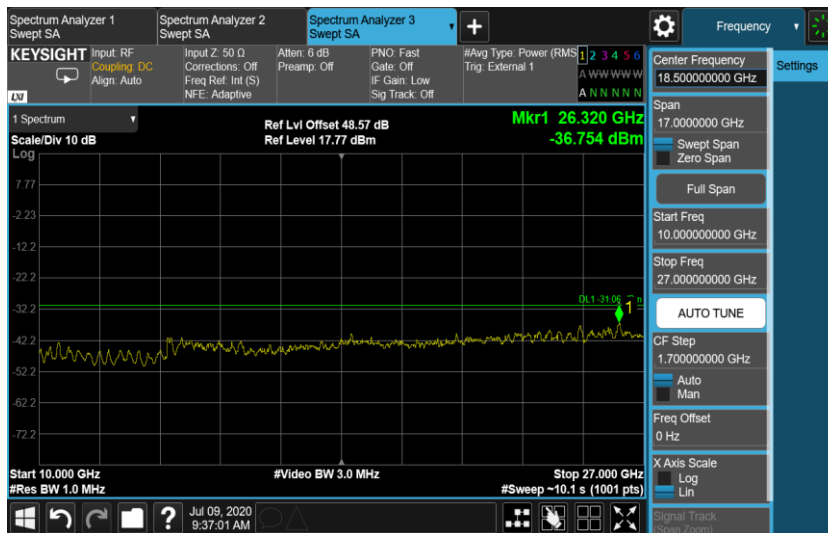
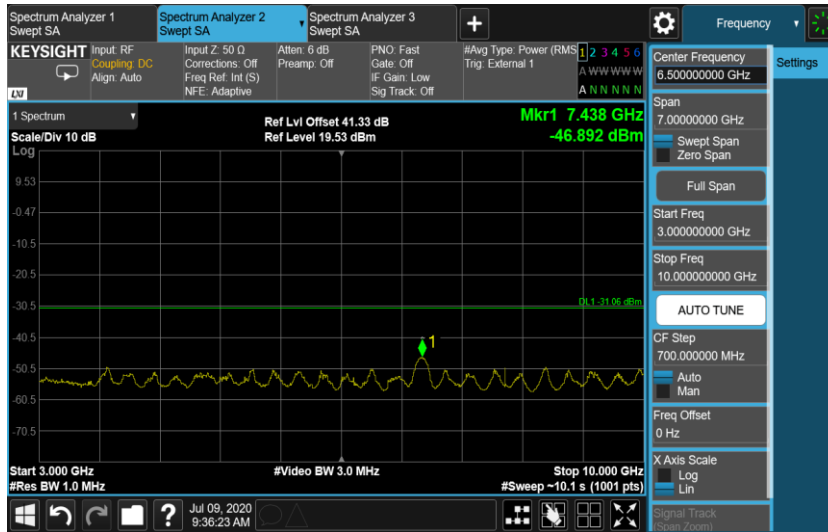
Port 56, Channel Position B, L 20.0 MHz, NR 20.0.0 MHz





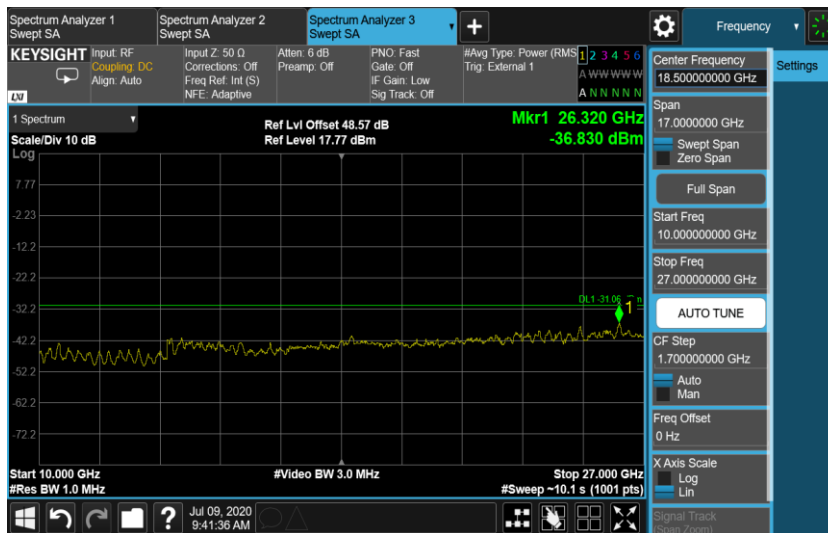
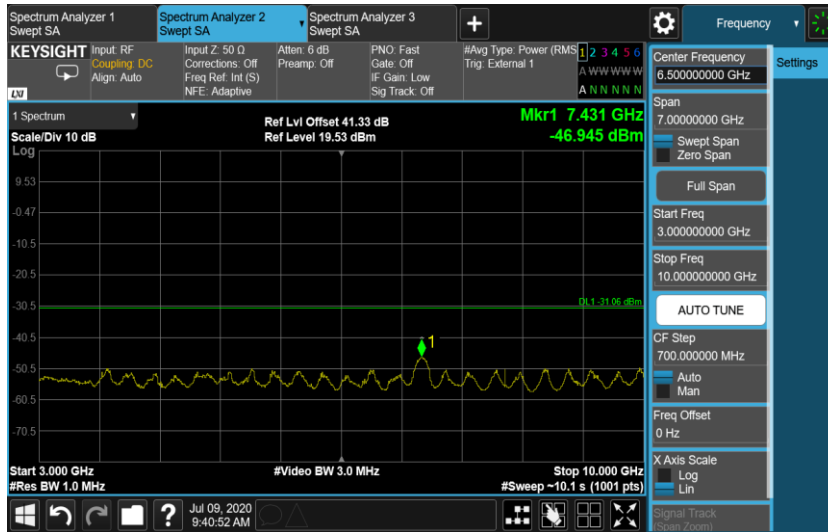
Port 56, Channel Position M, L 20.0 MHz, NR 20.0.0 MHz



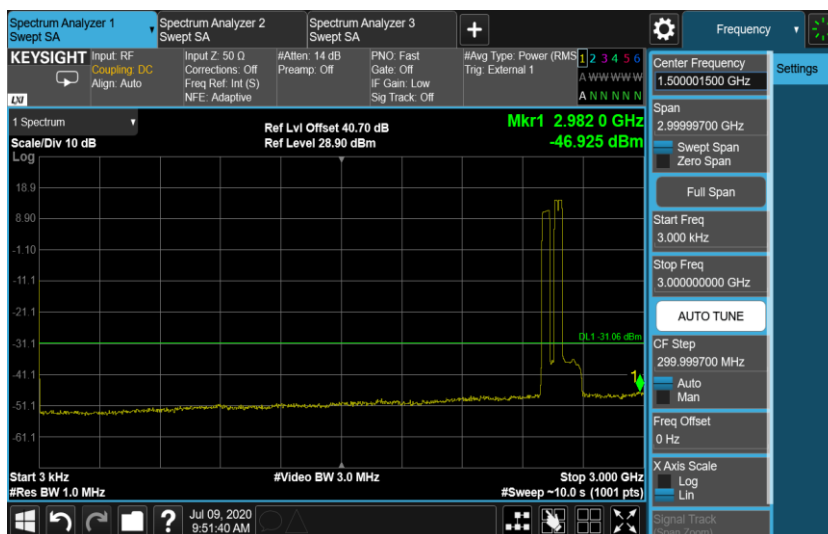


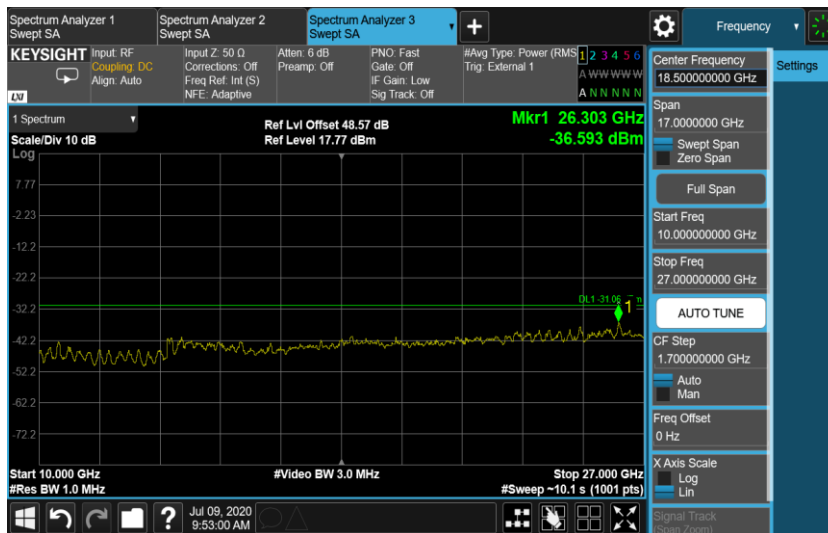
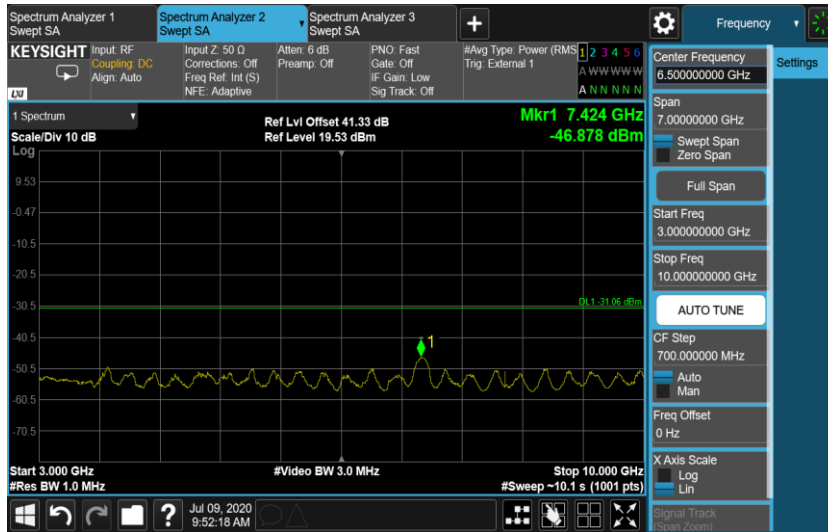
Port 56, Channel Position T, L 20.0 MHz, NR 20.0.0 MHz



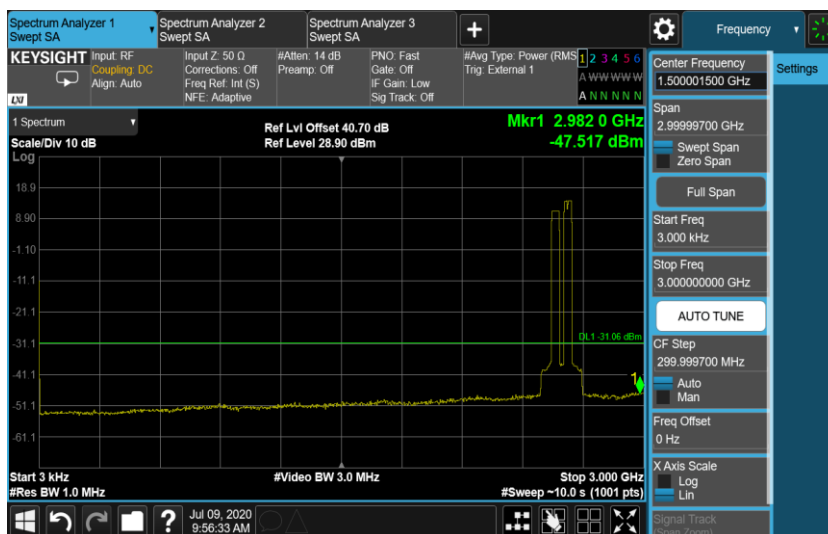


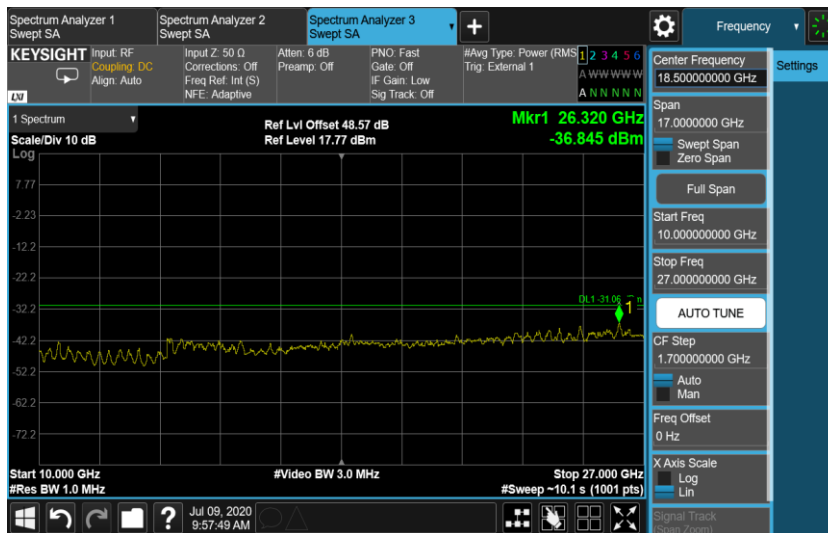
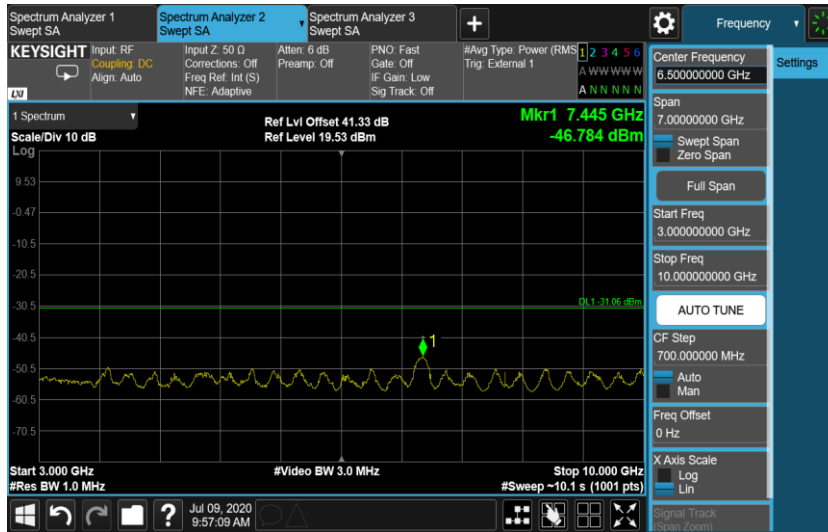
Port 56, Channel Position B, L 20.0 MHz, NR 40.0.0 MHz



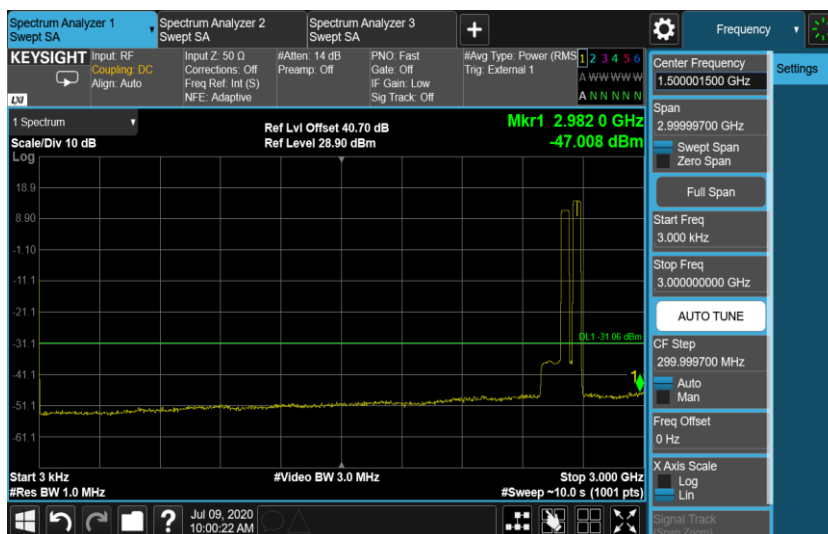


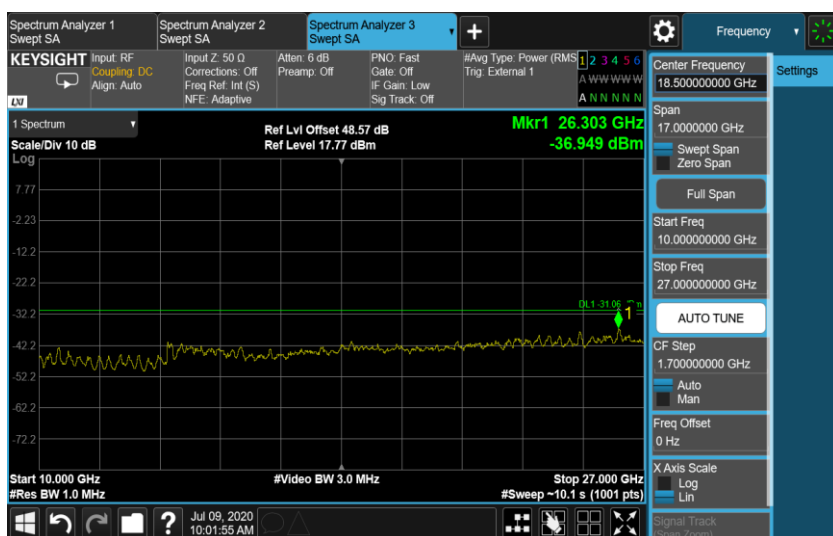
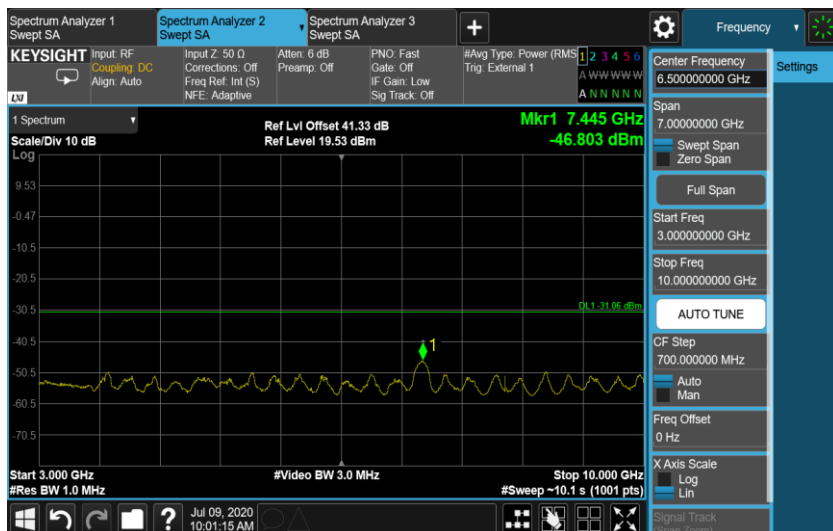
Port 56, Channel Position M, L 20.0 MHz, NR 40.0.0 MHz





Port 56, Channel Position T, L 20.0 MHz, NR 40.0 MHz

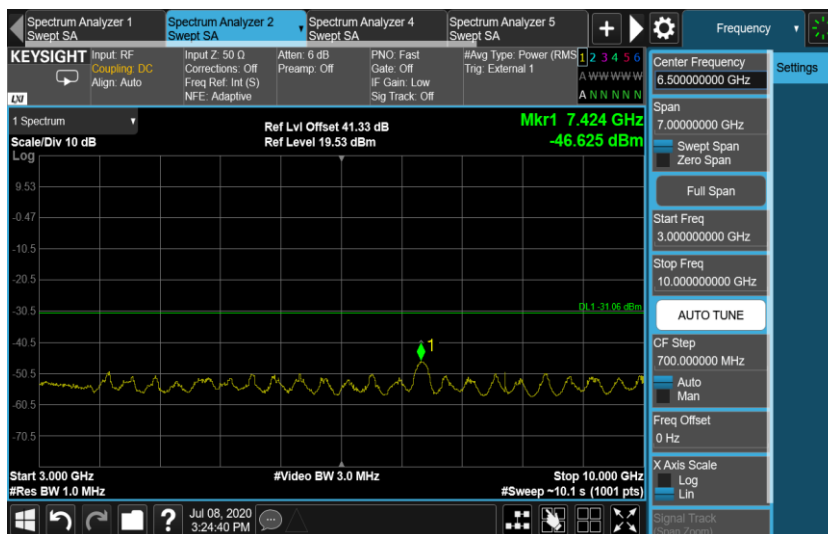
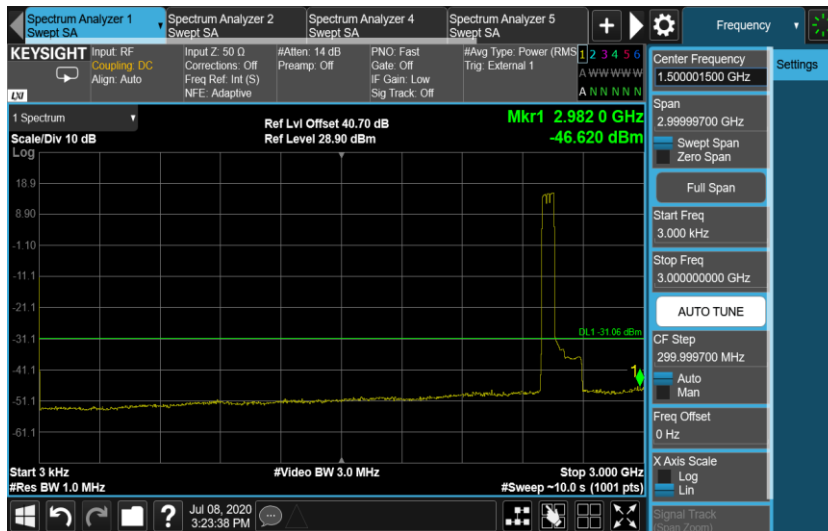


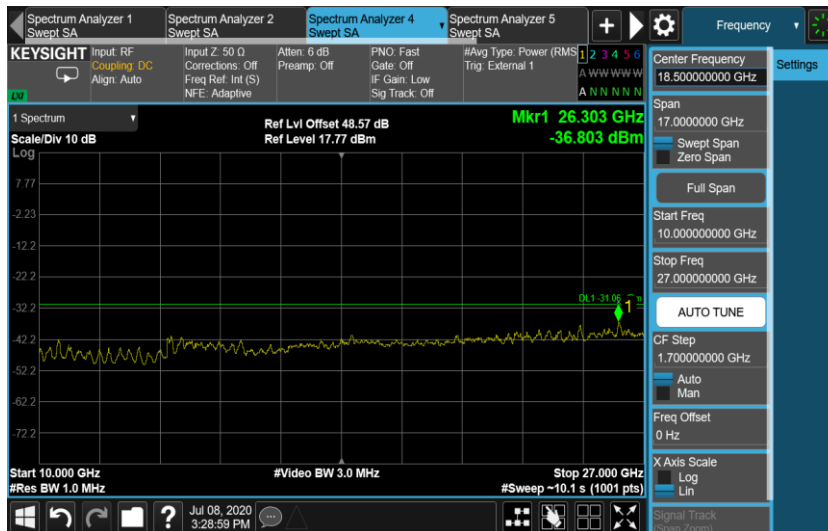


Configuration LTE-MIMO-CA-1 (3L QPSK)

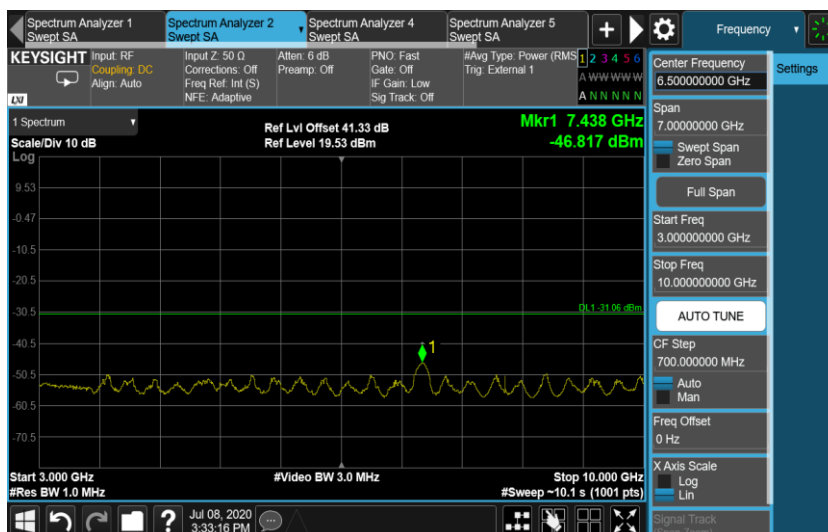
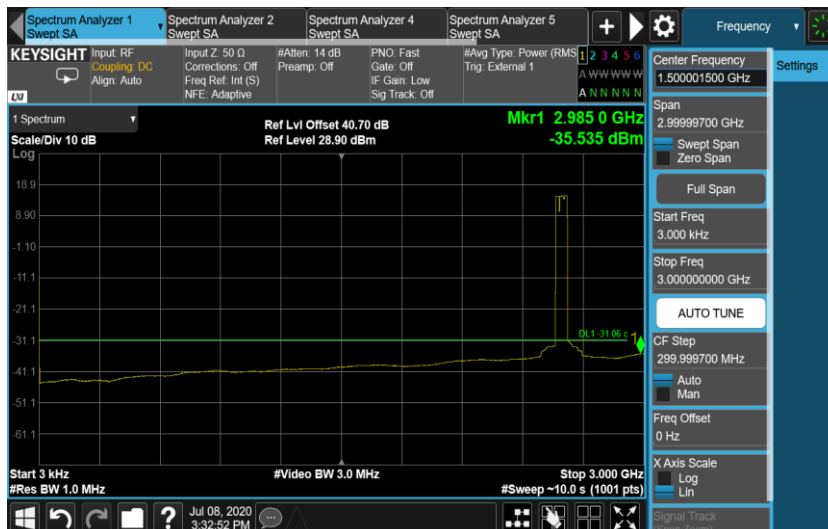
Channel Bandwidth	RBW (MHz)	Limit (dBm)
L: 20.0 MHz	1.0	-31.06

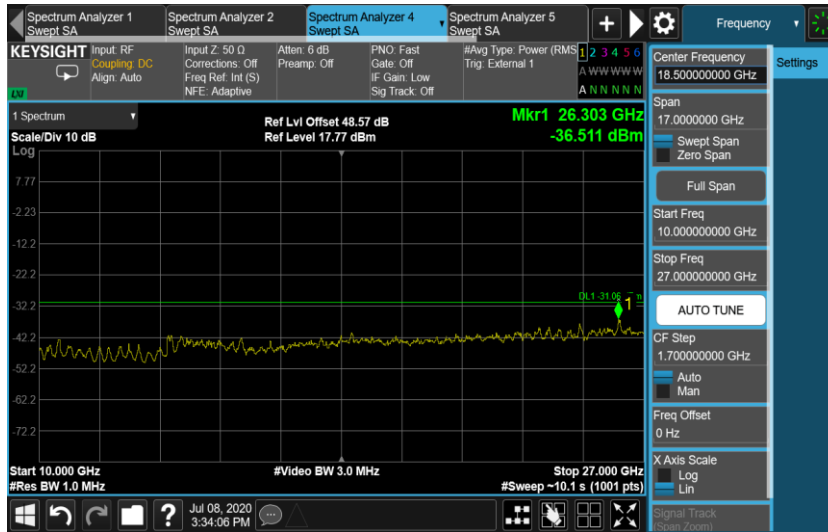
Port 56, Channel Position B, L 20.0 MHz



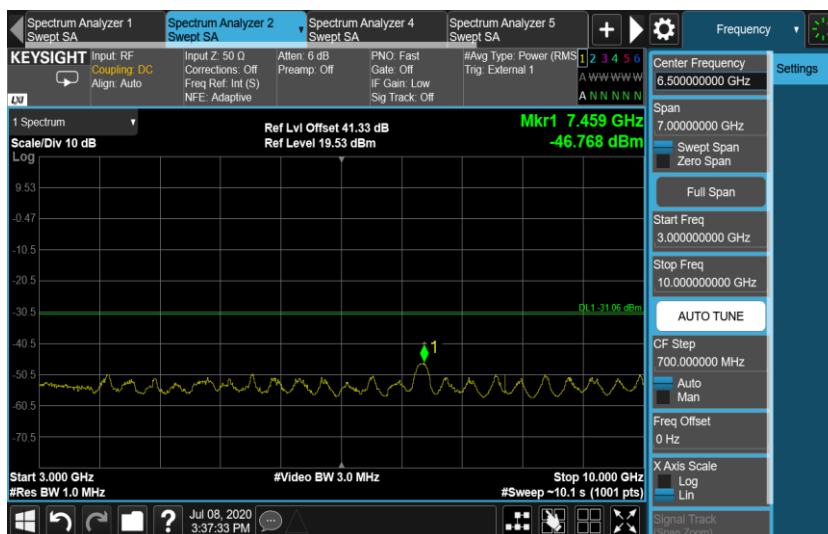
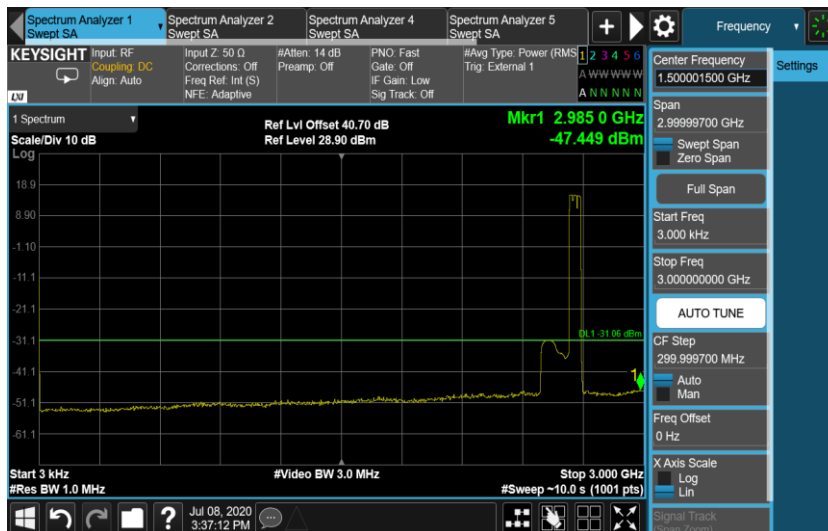


Port 56, Channel Position M, L 20.0 MHz





Port 56, Channel Position T, L 20.0 MHz





A.5 Radiated Spurious Emission

A.5.1 Reference

FCC CFR 47 Part 2, Clause 2.1051

FCC CFR 47 Part 27, Clause 27.53(m)

A.5.2 Method of measurement

The measurements procedures in TIA-603-E: 2016 are used. This measurement is carried out in semi-anechoic chamber.

A preliminary profile of the Spurious Radiated Emissions was obtained by operating the EUT on a remotely controlled turntable within the chamber. Measurements of emissions from the EUT were obtained with the measurement antenna in both horizontal and vertical polarizations.

The measurements in the frequency range 30 to 1000MHz was performed with a RBW of 100kHz.

The measurements in the frequency range 1 to 8GHz was performed with a RBW of 1MHz.

Emissions identified within the range 30MHz to 8GHz were then formally measured using a peak detector as the worst case.

The limits for outside a licensee's frequency band(s) of operation the power of the spurious emissions have been calculated, as shown below using the following formula:

$$\text{Field Strength of Carrier} - (55 + 10 \log (P) \text{ dB}) \text{ dB}$$

Where:

Field Strength is measured in dBμV/m

P is measured Transmitter Power in Watts

The EUT was measured with the antenna height varied between 1 and 4 m with the turntable rotated between 0 and 360 degrees. The emission of any outside a licensee's frequencies within 20dB of the limit were measured with the substitution method used according to the standard.

The measurements were performed at a 3m distance unless otherwise stated.

A.5.3 Measurement limit

The field strength of the carrier has been calculated assuming that the power is to be fed to a half-wave tuned dipoles as per 2.1053 (a).

$$E_{(v/m)} = (30 \times G_i \times P_o)^{0.5} / d$$

Where

G_i is the antenna gain of ideal half-wave dipoles,

P_o is the power out of the transceiver in W,

d is the measurement distance in meter.

Therefore at 3m measurement distance the field strength using the lowest transceiver output power would be:

$$E_{(v/m)} = (30 \times 1.64 \times 16.56)^{0.5} / 3 = 9.51 \text{ V/m} = 139.57 \text{ dB}\mu\text{V/m}$$

As per 27.53(m) For operations in the 2496-2690 MHz bands, the power of any emission outside the 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, in accordance with the following:

(1) On all frequencies between 2496-2690 MHz, by a factor not less than $55 + 10 \log (P) \text{ dB}$. this gives:

$$55 + 10 \log(16.56) = 67.19 \text{ dB}$$

Therefore the limit at 3m measurement distance is:

$$139.57 - 67.19 = 72.4 \text{ dB}\mu\text{V/m}$$

These limits have been used to determine Pass or Fail for the harmonics measured and detailed in the following results.

A.5.4 Measurement results

Configuration LTE+NR-MIMO-MC-1 (1LTE 20M+1NR 20M);

Channel Position	Channel Frequencies
Channel Position B	(NR)2506+(L)2586
Channel Position M	(NR)2553.01+(L)2633
Channel Position T	(NR)2600.02+(L)2680

Channel Position B

No emissions were detected within 20dB of the limit.

Channel Position M

No emissions were detected within 20dB of the limit.

Channel Position T

No emissions were detected within 20dB of the limit.

Configuration LTE+NR-MIMO-MC-1 (1LTE 20M+1NR 80M)

Channel Position	Channel Frequencies
Channel Position B	(NR)2536.02MHz+(L)2586MHz
Channel Position M	(NR)2583 MHz +(L)2633 MHz
Channel Position T	(NR)2630.01 MHz +(L)2680 MHz

Channel Position B

No emissions were detected within 20dB of the limit.

Channel Position M

No emissions were detected within 20dB of the limit.

Channel Position T

No emissions were detected within 20dB of the limit.

Configuration LTE+NR-MIMO-MC-2(2LTE 20M+1NR 20M)

Channel Position	Channel Frequencies
Channel Position B	(NR)2506.01+(L)2566+2586
Channel Position M	(NR)2553.02+(L)2613+2633
Channel Position T	(NR)2600+(L)2660+2680

Channel Position B

No emissions were detected within 20dB of the limit.

Channel Position M

No emissions were detected within 20dB of the limit.

Channel Position T

No emissions were detected within 20dB of the limit.

Configuration LTE+NR-MIMO-MC-2(2LTE 20M+1NR 40M)

Channel Position	Channel Frequencies
Channel Position B	(NR)2516.01+(L)2566+2586
Channel Position M	(NR)2563.02+(L)2613+2633
Channel Position T	(NR)2610+(L)2660+2680

Channel Position B

No emissions were detected within 20dB of the limit.

Channel Position M

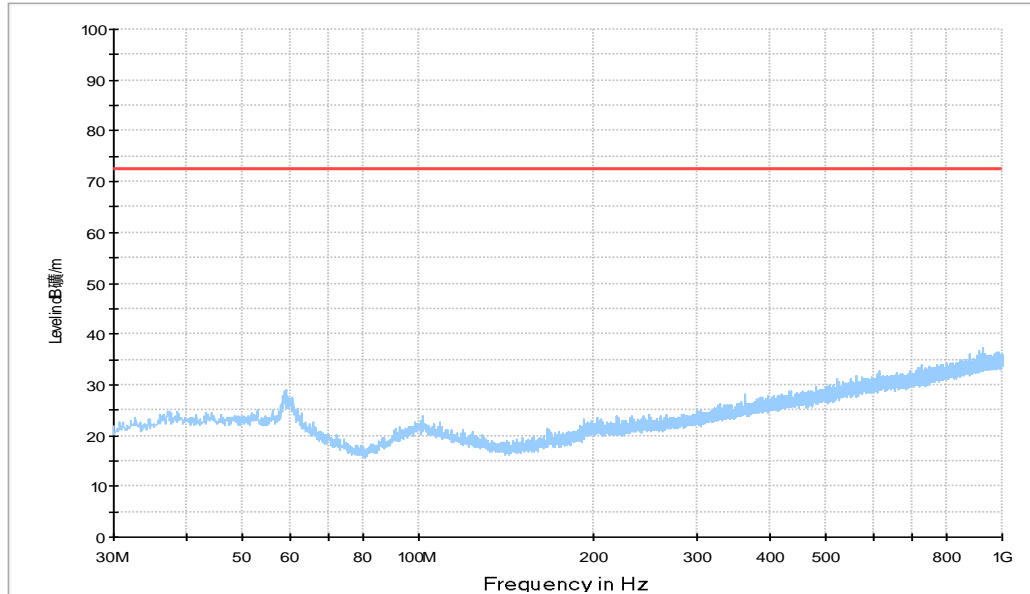
No emissions were detected within 20dB of the limit.

Channel Position T

No emissions were detected within 20dB of the limit.

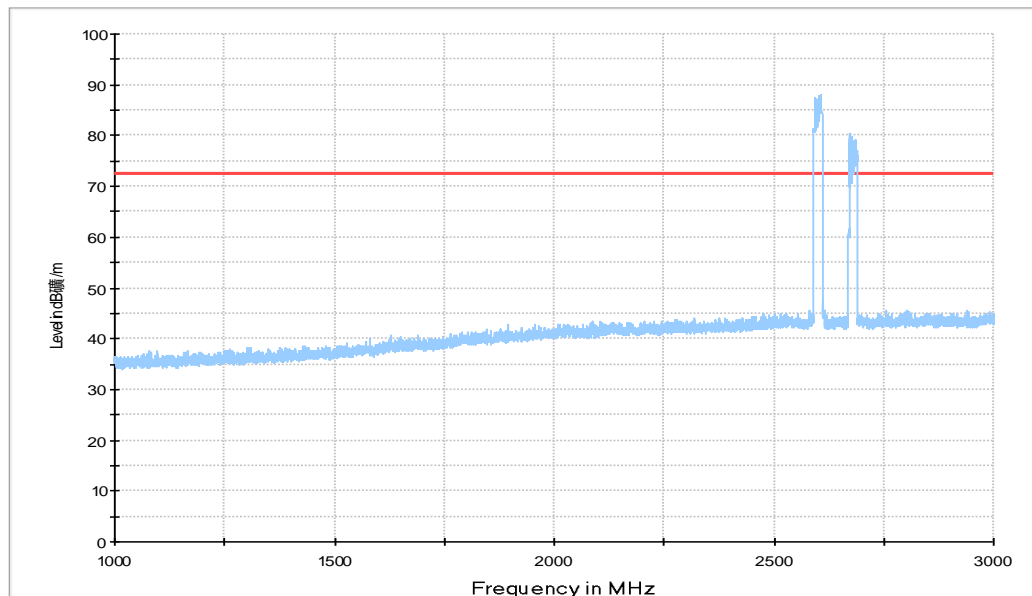
Configuration LTE+NR-MIMO-MC-1 (1LTE 20M+1NR 20M) ; T;

RSE_Erison_30M-1G_FCC



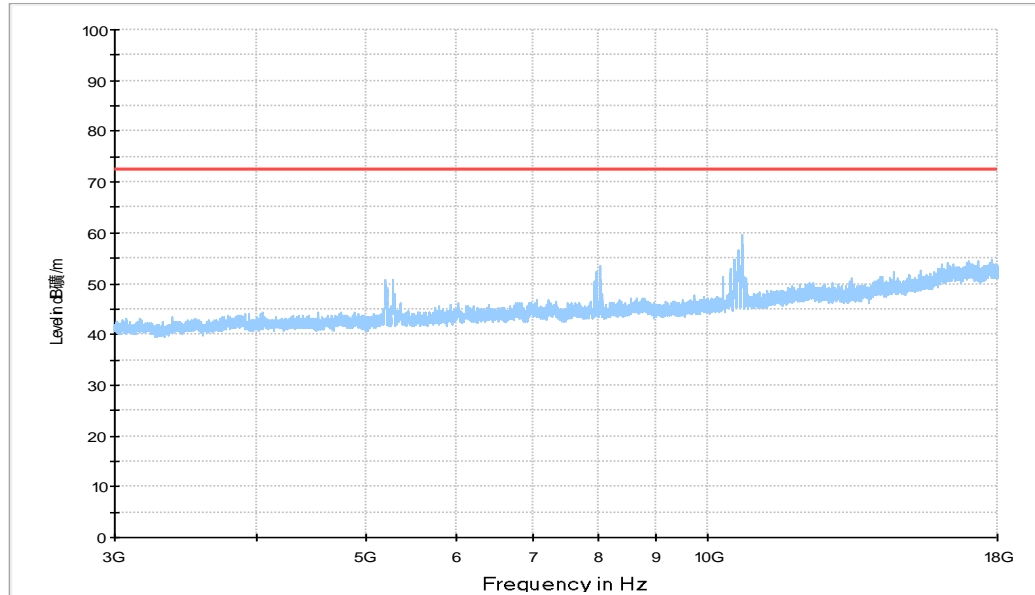
Configuration LTE+NR-MIMO-MC-1 (1LTE 20M+1NR 20M) ; T;

RSE_Erison_1-3G_FCC

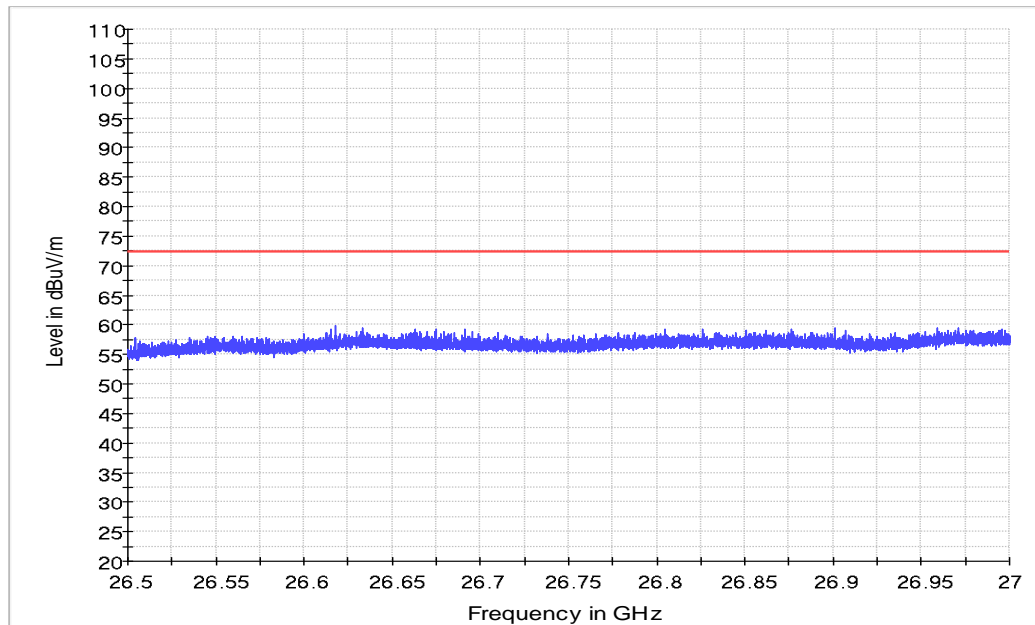


Configuration LTE+NR-MIMO-MC-1 (1LTE 20M+1NR 20M) ; T;

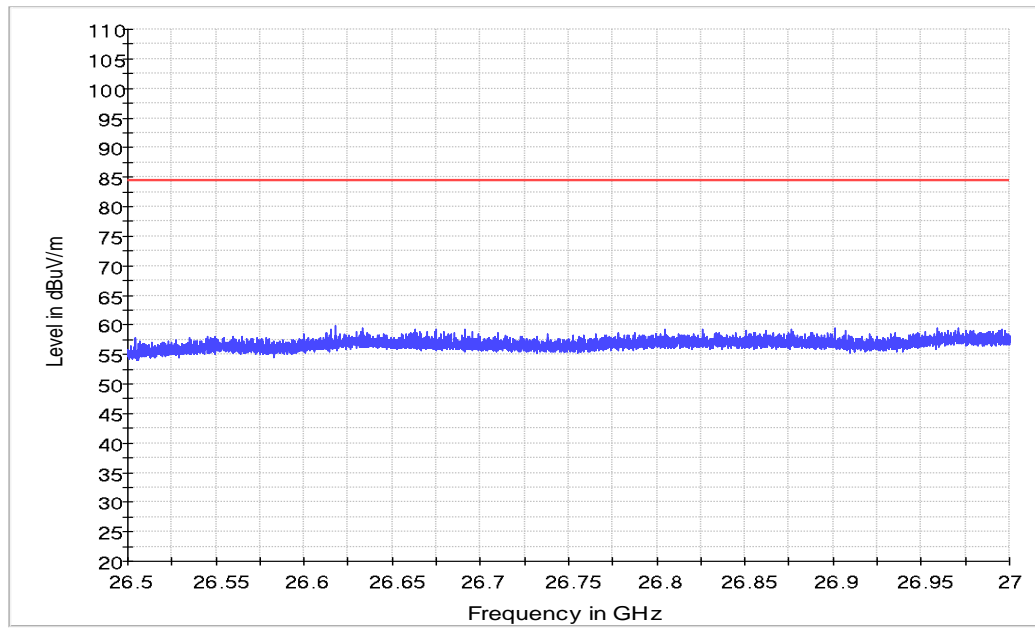
RSE_Erison_3-18G_FCC



Configuration LTE+NR-MIMO-MC-1 (1LTE 20M+1NR 20M) ; T;



Configuration LTE+NR-MIMO-MC-1 (1LTE 20M+1NR 20M) ; T;



ANNEX B: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p> <p style="font-size: 2em; font-weight: bold;">NVLAP[®]</p> <hr style="border: 1px solid black;"/> <p style="font-size: 1.2em; font-weight: bold;">Certificate of Accreditation to ISO/IEC 17025:2005</p> <hr style="border: 1px solid black;"/>	
<p>NVLAP LAB CODE: 600118-0</p>	
<p>Telecommunication Technology Labs, CAICT Beijing China</p>	
<p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p>	
<p>Electromagnetic Compatibility & Telecommunications</p>	
<p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p>	
<p>2019-09-26 through 2020-09-30 <i>Effective Dates</i></p>	<div style="display: flex; align-items: center; justify-content: center;"><div style="margin-left: 20px;"><p style="font-size: 0.8em; margin-top: 5px;">For the National Voluntary Laboratory Accreditation Program</p></div></div>

END OF REPORT