



RF TEST REPORT

Applicant ZTE Corporation
FCC ID SRQ-ZTE7540NMX
Product 5G NR Multi model smart phone
Model ZTE 7540N
Report No. R2206A0499-R8
Issue Date July 18, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2021)/ FCC CFR47 Part 27C (2021)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Isotropic Radiated Power	2.1046 27.50(c)(13)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	27.53(g)	PASS
4	Peak-to-Average Power Ratio	27.50(d)/KDB971168 D01(5.7)	PASS
5	Frequency Stability	2.1055 / 27.54	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 /27.53 (g)	PASS
7	Radiates Spurious Emission	2.1051 /27.53 (g)	PASS

Date of Testing: June 16, 2022 ~ July 1, 2022

Date of Sample Received: June 10, 2022

Note: PASS: The EUT complies with the essential requirements in the standard.

FAIL: The EUT does not comply with the essential requirements in the standard.

All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.



1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company:	TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China
City:	Shanghai
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Website:	http://www.ta-shanghai.com
E-mail:	xukai@ta-shanghai.com

2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	ZTE Corporation
Applicant address	ZTE Plaza, #55 Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China
Manufacturer	ZTE Corporation
Manufacturer address	ZTE Plaza, #55 Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China

2.2 General information

EUT Description			
Model	ZTE 7540N		
IMEI	860703060001771		
Hardware Version	zs9A		
Software Version	MyOS11.0.0_7540N_TEL		
Power Supply	Battery / AC adapter		
Antenna Type	Internal Antenna		
Antenna Gain	Band	Antenna	Gain(dBi)
	LTE Band 28 Subset 1:	Antenna 0	-4.4
	LTE Band 28 Subset 2:	Antenna 0	-4.4
	NR n28 Subset 1	Antenna 0	-4.4
	NR n28 Subset 2	Antenna 0	-4.4
Test Mode(s)	LTE Band 28; NR n28; DC_7A-n28A; DC_66A-n28A;		
Test Modulation	(LTE) QPSK, 16QAM, 64QAM; (NR) CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM; DFT-s OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM		
Maximum E.I.R.P./ E.R.P.	LTE Band 28 Subset 1	16.72 dBm	
	LTE Band 28 Subset 2	16.71 dBm	
	NR n28 Subset 1	15.60 dBm	
	NR n28 Subset 2	15.63 dBm	
	DC_7A-n28A (Subset 1)	15.92 dBm	
	DC_7A-n28A (Subset 2)	15.92 dBm	
Rated Power Supply Voltage	3.87V		
Operating Voltage	Minimum: 3.50V Maximum: 4.45V		
Operating Temperature	Lowest: -10°C Highest: +55°C		
Testing Temperature	Lowest: -30°C Highest: +50°C		
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)



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	LTE Band 28 Subset 1:	703 ~ 716	758 ~ 771
	LTE Band 28 Subset 2:	728 ~ 746	783 ~ 801
	NR n28 Subset 1	703 ~ 716	758 ~ 771
	NR n28 Subset 2	728 ~ 746	783 ~ 801
EUT Accessory			
Adapter 1	Manufacturer: Jiangsu Chenyang Electron Co.,Ltd. Model: STC-A520A-Z		
Adapter 2	Manufacturer: Shenzhen Ruijing Industrial Co.,Ltd Model: STC-A520A-Z		
Battery	Manufacturer: ZHONGSHAN TIANMAO BATTERY CO.LTD. Model: Li3839T44P8h866445		
USB Cable1	Manufacturer: Shenzhen Luxshare Precision Industry Co.,Ltd. Model: USB-TC20-W-70-M-L		
USB Cable 2	Manufacturer: Dongguan Guojun Plastic Electronic Co.,Ltd Model: USB-TC20-W-70-M-L		
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant. 2. There are more than one Adapter and USB Cable, each one should be applied throughout the compliance test respectively, however, only the worst case (Adapter 1, and USB Cable 2) will be recorded in this report.			



3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 27C (2021)

FCC CFR47 Part 2 (2021)

Reference standard:

ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

4 Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (Z axis, vertical polarization for NR/EN_DC, X axis, vertical polarization for LTE) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

The following testing in LTE/NR is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detail in the following table:

Test modes are chosen to be reported as the worst case configuration below for LTE Band 28 Subset 1/ LTE Band 28 Subset 2:

Test items	Modes	Bandwidth (MHz)				Modulation		RB			Test Channel		
		3	5	10	15	QPSK	16QAM/64QAM	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	LTE 28 Subset 1	O	O	O	-	O	O	O	O	O	O	O	O
	LTE 28 Subset 2	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 28 Subset 1	O	O	O	-	O	O	-	-	O	O	O	O
	LTE 28 Subset 2	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 28 Subset 1	O	O	O	-	O	O	O	-	O	O	-	O
	LTE 28 Subset 2	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 28 Subset 1	O	O	O	-	O	O	-	-	O	O	O	O
	LTE 28 Subset 2	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 28 Subset 1	O	O	O	-	O	O	O	-	-	-	O	-
	LTE 28 Subset 2	O	O	O	O	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	LTE 28 Subset 1	O	O	O	-	O	-	O	-	-	O	O	O
	LTE 28 Subset 2	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	LTE 28 Subset 1	O	O	O	-	O	-	O	-	-	-	O	-
	LTE 28 Subset 2	O	O	-	O	O	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.												



Test modes are chosen to be reported as the worst case configuration below for NR n28 Subset 1/
NR n28 Subset 2/ DC_7A-n28A (Subset 1)/ DC_7A-n28A (Subset 2) /DC_66A-n28A (Subset 1)/
DC_66A-n28A (Subset 2)

Test items	Mode	Bandwidth (MHz)			Modulation					RB			Test Channel		
		5	10	15	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	NR n28 Subset 1	O	O	-	O	O	O	O	O	O	O	O	O	O	O
	NR n28 Subset 2	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	DC_7A-n28A (Subset 1)	O	O	-	O	O	O	O	O	O	O	O	O	O	O
	DC_7A-n28A (Subset 2)	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	DC_66A-n28A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A-n28A (Subset 2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Occupied Bandwidth	NR n28 Subset 1	-	O	-	O	O	O	O	O	O	-	O	O	O	O
	NR n28 Subset 2	-	-	O	O	O	O	O	O	O	-	O	O	O	O
	DC_7A-n28A (Subset 1)	-	O	-	O	O	O	O	O	O	-	O	O	O	O
	DC_7A-n28A (Subset 2)	-	-	O	O	O	O	O	O	O	-	O	O	O	O
	DC_66A-n28A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A-n28A (Subset 2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Band Edge Compliance	NR n28 Subset 1	-	O	-	O	O	O	O	O	O	-	O	O	-	O
	NR n28 Subset 2	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	DC_7A-n28A (Subset 1)	-	O	-	O	O	O	O	O	O	-	O	O	-	O
	DC_7A-n28A (Subset 2)	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	DC_66A-n28A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A-n28A (Subset 2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Peak-to- Average Power Ratio	NR n28 Subset 1	-	O	-	O	O	O	O	O	-	-	O	O	O	O
	NR n28 Subset 2	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	DC_7A-n28A (Subset 1)	-	O	-	O	O	O	O	O	-	-	O	O	O	O
	DC_7A-n28A (Subset 2)	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	DC_66A-n28A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A-n28A (Subset 2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Frequency Stability	NR n28 Subset 1	O	O	-	O	O	O	O	O	O	-	-	-	O	-
	NR n28 Subset 2	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	DC_7A-n28A (Subset 1)	O	O	-	O	O	O	O	O	O	-	-	-	O	-
	DC_7A-n28A (Subset 2)	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	DC_66A-n28A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A-n28A (Subset 2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spurious Emissions at Antenna Terminals	NR n28 Subset 1	-	O	-	O	O	O	O	-	O	-	-	O	O	O
	NR n28 Subset 2	-	-	O	O	O	O	O	-	O	-	-	O	O	O
	DC_7A-n28A (Subset 1)	-	O	-	O	O	O	O	O	O	-	-	O	O	O
	DC_7A-n28A (Subset 2)	-	-	O	O	O	O	O	O	O	-	-	O	O	O
	DC_66A-n28A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A-n28A (Subset 2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Radiates Spurious Emission	NR n28 Subset 1	O	O	-	O	O	O	O	O	O	-	-	-	O	-
	NR n28 Subset 2	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	DC_7A-n28A (Subset 1)	O	O	-	O	O	O	O	O	O	-	-	-	O	-
	DC_7A-n28A (Subset 2)	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	DC_66A-n28A (Subset 1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A-n28A (Subset 2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: 1. The mark "O" means that this configuration is chosen for testing.

2. The mark "-" means that this configuration is not testing.

3. Sub 6GHz operates using 15kHz Subcarrier Spacing with both CP-OFDM and DFT-s OFDM waveforms. The band supports PI/2 BPSK ,QPSK, 16QAM, 64QAM, and 256QAM modulation. The test data provided in this report represents the worst case configurations.

5 Test Case

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

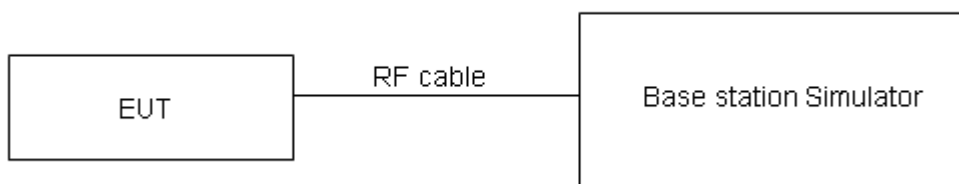
ERP can then be calculated as follows:

$EIRP \text{ (dBm)} = \text{Output Power (dBm)} - \text{Losses (dB)} + \text{Antenna Gain (dBi)}$

where: dBd refers to gain relative to an ideal dipole.

$EIRP \text{ (dBm)} = ERP \text{ (dBm)} + 2.15 \text{ (dB.)}$

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

Rule Part 27.50(c) (13) specifies that "Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP"

Part 27.50(c)(13)Limit	$\leq 3 \text{ W}$ (34.77 dBm)
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.4$ dB for RF power output, $k = 2$, $U= 1.19$ dB for ERP/EIRP.

Test Results

Refer to the section 6.1 of this report for test data.

5.2 Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

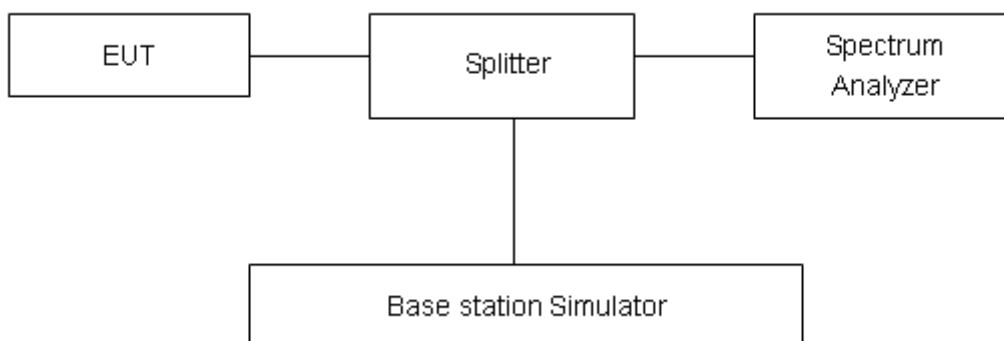
Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to $\geq 1\%EBW$, VBW is set to 3x RBW.

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=624\text{Hz}$.

Test Results

Refer to the section 6.2 of this report for test data.

5.3 Band Edge Compliance

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured.

The testing follows KDB 971168 D01 v03r01 Section 6.0

The EUT was connected to spectrum analyzer and system simulator via a power divider.

The band edges of low and high channels for the highest RF powers were measured.

RBW is set to $\geq 1\%EBW$, VBW is set to 3x RBW.

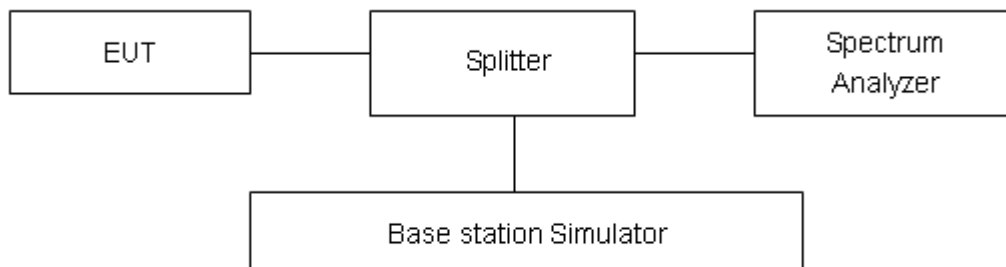
on spectrum analyzer.

Set spectrum analyzer with RMS detector.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

Checked that all the results comply with the emission limit line.

Test Setup



Limits

Rule 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.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U=0.684dB$.



Test Results

Refer to the section 6.3 of this report for test data.

5.4 Peak-to-Average Power Ratio (PAPR)

Ambient condition

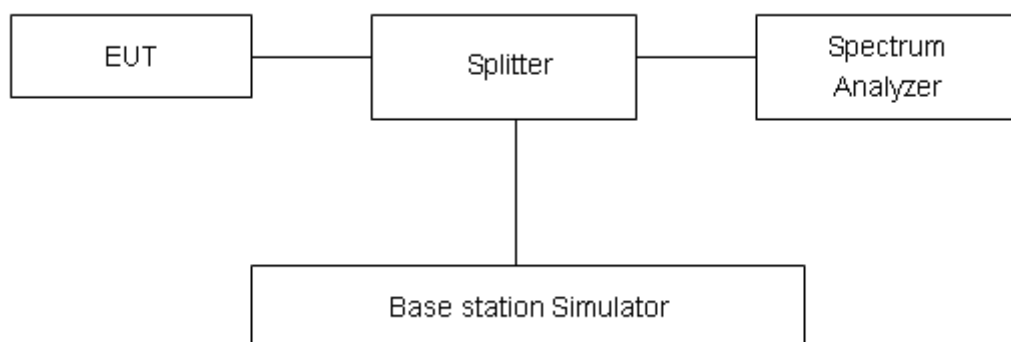
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

Measure the total peak power and record as PPK. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$\text{PAPR (dB)} = \text{PPk (dBm)} - \text{PAvg (dBm)}.$$

Test Setup



Limits

Rule Part 27.50(d)(5) Equipment employed must be authorized in accordance with the provisions of 24.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.4$ dB.

Test Results

Refer to the section 6.4 of this report for test data.

5.5 Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size.

(1) With all power removed, the temperature was decreased to -10°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

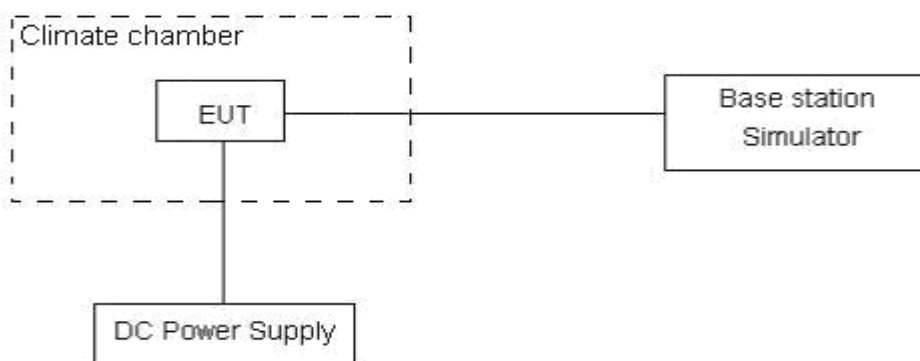
Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.50 V and 4.45 V, with a nominal voltage of 3.87V.

Test setup



Limits

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3$, $U=0.01\text{ppm}$.

Test Results

Refer to the section 6.5 of this report for test data.

5.6 Spurious Emissions at Antenna Terminals

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 9kHz to the 10th harmonic of the carrier. The peak detector is used.

RBW is set to 100kHz, VBW is set to 300kHz for 30MHz~1GHz

RBW is set to 1MHz, VBW is set to 3MHz for above 1GHz, Sweep is set to ATUO.

RBW is set to 1 kHz (0.009MHz~ 0.15 MHz),

RBW is set to 10 kHz (0.15 MHz~ 30 MHz)

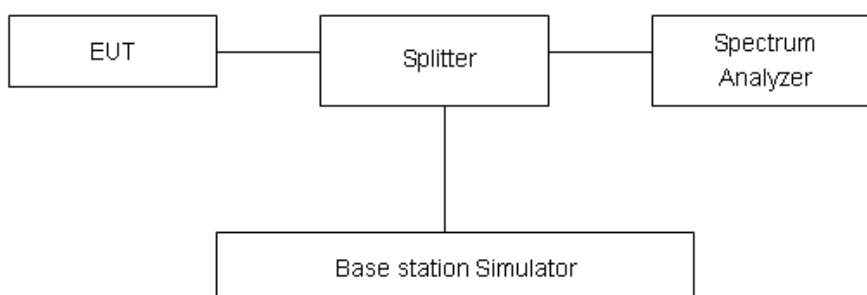
RBW is set to 100 kHz (30MHz~1000 MHz)

RBW is set to 1000 kHz (above 1000MHz)

Of those disturbances below (limit – 20 dB), the mark is not required for the EUT.

The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup



Limits

Rule 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.

Part 27.53 (g) Limit	-13 dBm
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9kHz-1GHz	0.684 dB
1GHz-30GHz	1.407 dB

Test Results

Refer to the section 6.6 of this report for test data.

5.7 Radiates Spurious Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26 (2015).
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz, VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, and the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
7. The measurement results are obtained as described below:

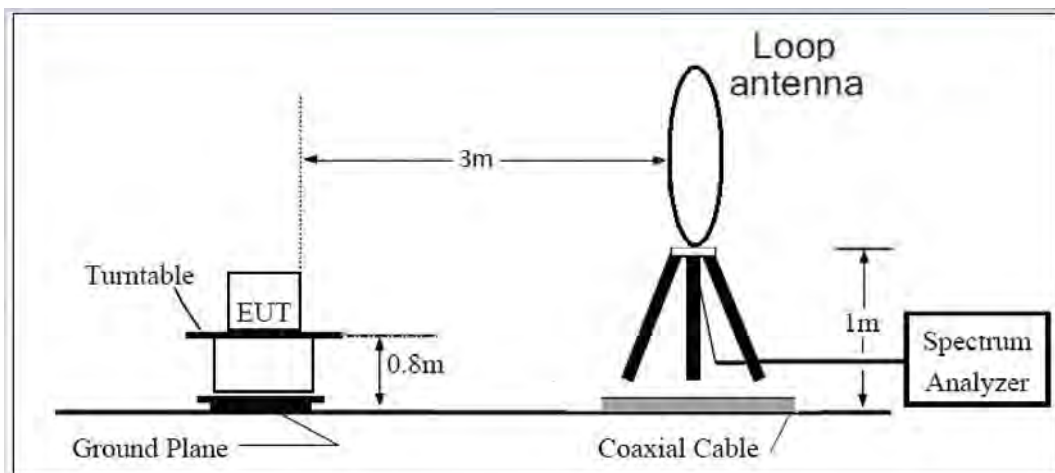
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$
The measurement results are amend as described below:

$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dB}$.

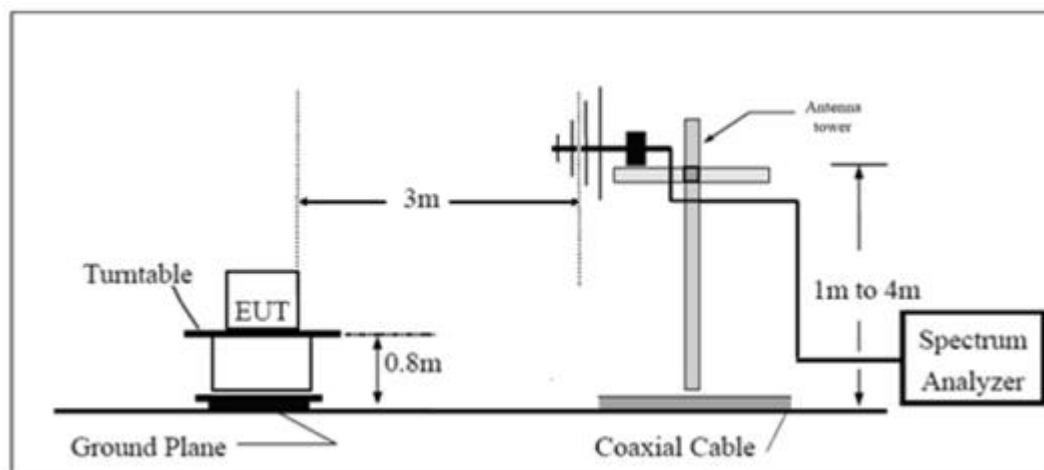
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

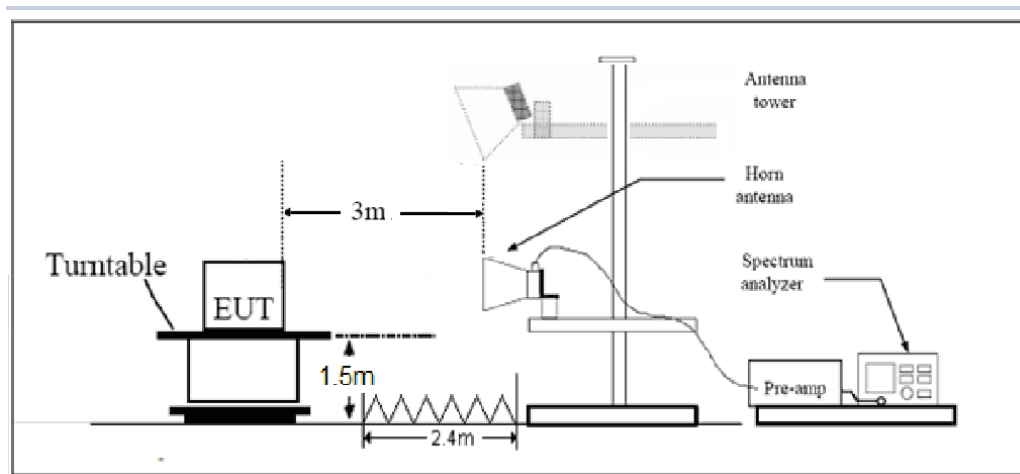
9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m



Limits

Rule 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.

Part 27.53 (g) Limit	-13 dBm
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = \pm 1.96$, $U = \pm 3.55$ dB.

Test Results

Refer to the section 6.7 of this report for test data.

6 Test Results

6.1 RF Power Output and Effective Isotropic Radiated Power

LTE Band 28 Subset 1				Maximum Output Power (dBm)			ERP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				27225/ 704.5	27275 /709.5	27325/ 714.5	27225/ 704.5	27275/ 709.5	27325/ 714.5
3MHz	QPSK	1	0	23.17	23.13	23.16	16.62	16.58	16.61
		1	7	23.01	23.19	23.09	16.46	16.64	16.54
		1	14	23.18	23.27	23.26	16.63	16.72	16.71
		8	0	22.02	22.26	22.26	15.47	15.71	15.71
		8	4	22.17	22.24	22.20	15.62	15.69	15.65
		8	7	22.11	22.13	22.20	15.56	15.58	15.65
		15	0	22.06	22.22	22.24	15.51	15.67	15.69
	16QAM	1	0	22.40	22.41	22.49	15.85	15.86	15.94
		1	7	22.62	22.59	22.67	16.07	16.04	16.12
		1	14	22.72	22.67	22.76	16.17	16.12	16.21
		8	0	21.31	21.24	21.33	14.76	14.69	14.78
		8	4	21.29	21.23	21.32	14.74	14.68	14.77
		8	7	21.17	21.13	21.23	14.62	14.58	14.68
		15	0	21.21	21.16	21.26	14.66	14.61	14.71
	64QAM	1	0	21.54	21.46	21.55	14.99	14.91	15.00
		1	7	21.41	21.32	21.42	14.86	14.77	14.87
		1	14	21.58	21.55	21.61	15.03	15.00	15.06
		8	0	20.24	20.18	20.27	13.69	13.63	13.72
		8	4	20.36	20.30	20.41	13.81	13.75	13.86
		8	7	20.17	20.14	20.21	13.62	13.59	13.66
		15	0	20.19	20.16	20.25	13.64	13.61	13.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				27235/ 705.5	27275 /709.5	27315/7 13.5	27235/ 705.5	27275/ 709.5	27315/ 713.5
5MHz	QPSK	1	0	23.14	23.11	23.12	16.59	16.56	16.57
		1	13	22.99	23.15	23.06	16.44	16.60	16.51
		1	24	23.15	23.22	23.22	16.60	16.67	16.67
		12	0	21.99	22.21	22.22	15.44	15.66	15.67
		12	6	22.15	22.20	22.15	15.60	15.65	15.60
		12	13	22.09	22.11	22.16	15.54	15.56	15.61
		25	0	22.06	22.21	22.22	15.51	15.66	15.67
	16QAM	1	0	22.40	22.37	22.46	15.85	15.82	15.91



		1	13	22.62	22.57	22.64	16.07	16.02	16.09
		1	24	22.69	22.65	22.72	16.14	16.10	16.17
		12	0	21.29	21.20	21.30	14.74	14.65	14.75
		12	6	21.26	21.18	21.28	14.71	14.63	14.73
		12	13	21.14	21.08	21.19	14.59	14.53	14.64
		25	0	21.19	21.12	21.21	14.64	14.57	14.66
	64QAM	1	0	21.51	21.46	21.52	14.96	14.91	14.97
		1	13	21.38	21.34	21.39	14.83	14.79	14.84
		1	24	21.59	21.53	21.57	15.04	14.98	15.02
		12	0	20.22	20.14	20.28	13.67	13.59	13.73
		12	6	20.33	20.25	20.37	13.78	13.70	13.82
		12	13	20.14	20.09	20.17	13.59	13.54	13.62
		25	0	20.17	20.12	20.20	13.62	13.57	13.65
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				27260/ 708	27275 /709.5	27290/ 711	27260/ 708	27275/ 709.5	27290/ 711
10MHz	QPSK	1	0	23.12	23.04	23.10	16.57	16.49	16.55
		1	25	22.99	23.15	23.05	16.44	16.60	16.50
		1	49	23.12	23.20	23.18	16.57	16.65	16.63
		25	0	21.97	22.17	22.19	15.42	15.62	15.64
		25	13	22.13	22.16	22.12	15.58	15.61	15.57
		25	25	22.05	22.07	22.13	15.50	15.52	15.58
		50	0	22.05	22.14	22.17	15.50	15.59	15.62
	16QAM	1	0	22.39	22.34	22.41	15.84	15.79	15.86
		1	25	22.61	22.56	22.61	16.06	16.01	16.06
		1	49	22.67	22.60	22.70	16.12	16.05	16.15
		25	0	21.26	21.19	21.28	14.71	14.64	14.73
		25	13	21.22	21.15	21.24	14.67	14.60	14.69
		25	25	21.12	21.04	21.16	14.57	14.49	14.61
		50	0	21.17	21.08	21.18	14.62	14.53	14.63
	64QAM	1	0	21.46	21.39	21.47	14.91	14.84	14.92
		1	25	21.35	21.29	21.36	14.80	14.74	14.81
		1	49	21.53	21.48	21.55	14.98	14.93	15.00
		25	0	20.19	20.13	20.22	13.64	13.58	13.67
		25	13	20.29	20.22	20.33	13.74	13.67	13.78
		25	25	20.12	20.05	20.14	13.57	13.50	13.59
		50	0	20.15	20.08	20.17	13.60	13.53	13.62



LTE Band 28 Subset 2				Maximum Output Power (dBm)			ERP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				27475/ 729.5	27550/ 737	27625/ 744.5	27475/ 729.5	27550/ 737	27625/ 744.5
3MHz	QPSK	1	0	23.02	22.99	23.00	16.47	16.44	16.45
		1	7	23.16	23.03	23.12	16.61	16.48	16.57
		1	14	23.12	23.07	23.08	16.57	16.52	16.53
		8	0	22.06	22.04	22.03	15.51	15.49	15.48
		8	4	22.04	22.12	22.11	15.49	15.57	15.56
		8	7	22.13	22.02	22.04	15.58	15.47	15.49
		15	0	22.03	22.12	22.08	15.48	15.57	15.53
	16QAM	1	0	22.52	22.51	22.62	15.97	15.96	16.07
		1	7	22.47	22.46	22.53	15.92	15.91	15.98
		1	14	22.47	22.45	22.55	15.92	15.90	16.00
		8	0	21.00	20.97	21.06	14.45	14.42	14.51
		8	4	21.12	21.08	21.20	14.57	14.53	14.65
		8	7	21.10	21.08	21.18	14.55	14.53	14.63
		15	0	21.04	21.02	21.12	14.49	14.47	14.57
	64QAM	1	0	21.29	21.24	21.37	14.74	14.69	14.82
		1	7	21.37	21.34	21.43	14.82	14.79	14.88
		1	14	21.22	21.16	21.24	14.67	14.61	14.69
		8	0	19.97	19.94	20.05	13.42	13.39	13.50
		8	4	20.05	20.01	20.13	13.50	13.46	13.58
		8	7	20.07	20.05	20.15	13.52	13.50	13.60
		15	0	20.06	20.04	20.15	13.51	13.49	13.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				27485/ 730.5	27550/ 737	27615/ 743.5	27485/ 730.5	27550/ 737	27615/ 743.5
5MHz	QPSK	1	0	23.04	23.00	23.03	16.49	16.45	16.48
		1	13	23.19	23.08	23.16	16.64	16.53	16.61
		1	24	23.14	23.11	23.11	16.59	16.56	16.56
		12	0	22.09	22.09	22.07	15.54	15.54	15.52
		12	6	22.07	22.17	22.15	15.52	15.62	15.60
		12	13	22.15	22.06	22.09	15.60	15.51	15.54
		25	0	22.07	22.14	22.12	15.52	15.59	15.57
	16QAM	1	0	22.56	22.54	22.64	16.01	15.99	16.09
		1	13	22.51	22.50	22.56	15.96	15.95	16.01
		1	24	22.50	22.47	22.58	15.95	15.92	16.03
		12	0	21.03	21.02	21.10	14.48	14.47	14.55
		12	6	21.14	21.12	21.23	14.59	14.57	14.68
		12	13	21.13	21.13	21.22	14.58	14.58	14.67
		25	0	21.07	21.07	21.16	14.52	14.52	14.61



	64QAM	1	0	21.31	21.23	21.39	14.76	14.68	14.84
		1	13	21.40	21.34	21.46	14.85	14.79	14.91
		1	24	21.21	21.18	21.27	14.66	14.63	14.72
		12	0	20.00	19.99	20.05	13.45	13.44	13.50
		12	6	20.07	20.05	20.16	13.52	13.50	13.61
		12	13	20.10	20.10	20.19	13.55	13.55	13.64
		25	0	20.09	20.09	20.19	13.54	13.54	13.64
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				27510/ 733	27550/ 737	27590/ 741	27510/ 733	27550/ 737	27590/ 741
10MHz	QPSK	1	0	23.03	22.96	23.01	16.48	16.41	16.46
		1	25	23.17	23.07	23.13	16.62	16.52	16.58
		1	49	23.11	23.06	23.07	16.56	16.51	16.52
		25	0	22.07	22.05	22.04	15.52	15.50	15.49
		25	13	22.04	22.12	22.11	15.49	15.57	15.56
		25	25	22.12	22.03	22.05	15.57	15.48	15.50
		50	0	22.05	22.10	22.07	15.50	15.55	15.52
	16QAM	1	0	22.54	22.52	22.62	15.99	15.97	16.07
		1	25	22.49	22.47	22.54	15.94	15.92	15.99
		1	49	22.48	22.43	22.55	15.93	15.88	16.00
		25	0	21.00	21.00	21.07	14.45	14.45	14.52
		25	13	21.11	21.07	21.19	14.56	14.52	14.64
		25	25	21.11	21.09	21.19	14.56	14.54	14.64
		50	0	21.04	21.02	21.12	14.49	14.47	14.57
	64QAM	1	0	21.26	21.21	21.37	14.71	14.66	14.82
		1	25	21.38	21.31	21.44	14.83	14.76	14.89
		1	49	21.22	21.17	21.28	14.67	14.62	14.73
		25	0	19.99	20.01	20.06	13.44	13.46	13.51
		25	13	20.05	20.02	20.15	13.50	13.47	13.60
		25	25	20.08	20.06	20.16	13.53	13.51	13.61
		50	0	20.06	20.04	20.15	13.51	13.49	13.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				27535/ 735.5	27550/ 737	27565/ 738.5	27535/ 735.5	27550/ 737	27565/ 738.5
15MHz	QPSK	1	0	23.00	22.92	22.98	16.45	16.37	16.43
		1	38	23.26	23.03	23.11	16.71	16.48	16.56
		1	74	23.09	23.05	23.04	16.54	16.50	16.49
		36	0	22.04	22.00	22.00	15.49	15.45	15.45
		36	18	22.02	22.08	22.08	15.47	15.53	15.53
		36	39	22.09	21.98	22.01	15.54	15.43	15.46
		75	0	22.02	22.05	22.03	15.47	15.50	15.48
	16QAM	1	0	22.51	22.48	22.57	15.96	15.93	16.02
		1	38	22.46	22.45	22.50	15.91	15.90	15.95



		1	74	22.45	22.40	22.53	15.90	15.85	15.98
		36	0	20.97	20.96	21.04	14.42	14.41	14.49
		36	18	21.08	21.05	21.16	14.53	14.50	14.61
		36	39	21.08	21.04	21.15	14.53	14.49	14.60
		75	0	21.02	20.98	21.09	14.47	14.43	14.54
	64QAM	1	0	21.24	21.17	21.32	14.69	14.62	14.77
		1	38	21.34	21.29	21.40	14.79	14.74	14.85
		1	74	21.16	21.11	21.22	14.61	14.56	14.67
		36	0	19.94	19.93	19.99	13.39	13.38	13.44
		36	18	20.01	19.98	20.09	13.46	13.43	13.54
		36	39	20.05	20.01	20.12	13.50	13.46	13.57
		75	0	20.04	20.00	20.12	13.49	13.45	13.57

NR n28 Subset 1

Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
					141100	141900	142700	141100	141900	142700
					705.5	709.5	713.5	705.5	709.5	713.5
5	PI/2 BPSK	5	1	0	20.86	20.81	21.19	14.31	14.26	14.64
			1	1	21.78	21.79	21.80	15.23	15.24	15.25
			12	6	21.91	21.88	21.83	15.36	15.33	15.28
			25	0	20.83	20.96	21.45	14.28	14.41	14.90
	QPSK		1	0	20.77	20.88	21.23	14.22	14.33	14.68
			1	1	21.82	21.86	21.78	15.27	15.31	15.23
			12	6	21.91	21.86	21.82	15.36	15.31	15.27
			25	0	20.81	20.95	21.47	14.26	14.40	14.92
	16QAM		1	0	20.13	19.94	19.85	13.58	13.39	13.30
			1	1	21.18	20.98	20.97	14.63	14.43	14.42
			12	6	20.86	20.86	20.75	14.31	14.31	14.20
			25	0	19.72	19.95	19.89	13.17	13.40	13.34
	64QAM		1	0	19.38	19.28	19.83	12.83	12.73	13.28
			1	1	19.44	19.24	20.99	12.89	12.69	14.44
			12	6	19.34	19.24	20.82	12.79	12.69	14.27
			25	0	19.28	19.34	19.96	12.73	12.79	13.41
	256QAM		1	0	17.27	17.19	19.26	10.72	10.64	12.71
			1	1	17.31	17.28	19.29	10.76	10.73	12.74
			12	6	17.40	17.42	19.30	10.85	10.87	12.75
			25	0	17.41	17.53	19.37	10.86	10.98	12.82



Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
					141600	141900	142200	141600	141900	142200
					708.0	709.5	711.0	708.0	709.5	711.0
10	PI/2 BPSK	10	1	0	21.09	21.03	21.42	14.54	14.48	14.87
			1	1	22.03	22.01	22.04	15.48	15.46	15.49
			25	12	22.15	22.13	22.06	15.60	15.58	15.51
			50	0	21.06	21.17	21.67	14.51	14.62	15.12
	QPSK		1	0	21.01	21.10	21.46	14.46	14.55	14.91
			1	1	22.05	22.07	22.00	15.50	15.52	15.45
			25	12	22.14	22.07	22.04	15.59	15.52	15.49
			50	0	21.05	21.17	21.68	14.50	14.62	15.13
	16QAM		1	0	20.35	20.18	20.07	13.80	13.63	13.52
			1	1	21.42	21.21	21.21	14.87	14.66	14.66
			25	12	21.09	21.08	20.98	14.54	14.53	14.43
			50	0	19.95	20.19	20.12	13.40	13.64	13.57
	64QAM		1	0	19.61	19.49	20.05	13.06	12.94	13.50
			1	1	19.68	19.46	21.22	13.13	12.91	14.67
			25	12	19.58	19.46	21.03	13.03	12.91	14.48
			50	0	19.50	19.58	20.18	12.95	13.03	13.63
	256QAM		1	0	17.51	17.42	19.50	10.96	10.87	12.95
			1	1	17.54	17.50	19.52	10.99	10.95	12.97
			25	12	17.63	17.66	19.53	11.08	11.11	12.98
			50	0	17.64	17.74	19.59	11.09	11.19	13.04

NR n28 Subset 2										
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
					140700	147400	148700	140700	147400	148700
					730.5	737.0	743.5	730.5	737.0	743.5
5	PI/2 BPSK	15	1	0	20.72	21.27	20.75	14.17	14.72	14.20
			1	1	21.80	21.80	21.75	15.25	15.25	15.20
			12	6	21.98	21.94	21.96	15.43	15.39	15.41
			25	0	20.89	21.43	20.95	14.34	14.88	14.40
	QPSK		1	0	20.74	21.38	20.79	14.19	14.83	14.24
			1	1	21.86	21.82	21.81	15.31	15.27	15.26
			12	6	21.97	22.01	22.01	15.42	15.46	15.46
			25	0	20.84	21.40	20.94	14.29	14.85	14.39
	16QAM		1	0	19.97	19.94	19.92	13.42	13.39	13.37
			1	1	21.04	20.90	20.95	14.49	14.35	14.40



			12	6	20.91	20.95	21.07	14.36	14.40	14.52
			25	0	19.90	19.84	19.89	13.35	13.29	13.34
	64QAM		1	0	19.60	20.08	19.38	13.05	13.53	12.83
			1	1	19.61	20.91	19.44	13.06	14.36	12.89
			12	6	19.43	21.00	19.47	12.88	14.45	12.92
			25	0	19.33	19.83	19.38	12.78	13.28	12.83
	256QAM		1	0	17.18	19.44	17.18	10.63	12.89	10.63
			1	1	17.25	19.28	17.30	10.70	12.73	10.75
			12	6	17.49	19.42	17.47	10.94	12.87	10.92
			25	0	17.39	19.37	17.49	10.84	12.82	10.94
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
					146600	147400	148200	146600	147400	148200
					733.0	737.0	741.0	733.0	737.0	741.0
10	PI/2 BPSK	15	1	0	20.50	21.02	20.52	13.95	14.47	13.97
			1	1	21.57	21.58	21.51	15.02	15.03	14.96
			25	12	21.74	21.68	21.71	15.19	15.13	15.16
			50	0	20.66	21.18	20.71	14.11	14.63	14.16
	QPSK		1	0	20.50	21.12	20.54	13.95	14.57	13.99
			1	1	21.62	21.58	21.56	15.07	15.03	15.01
			25	12	21.74	21.76	21.75	15.19	15.21	15.20
			50	0	20.58	21.17	20.71	14.03	14.62	14.16
	16QAM		1	0	19.74	19.70	19.69	13.19	13.15	13.14
			1	1	20.80	20.65	20.71	14.25	14.10	14.16
			25	12	20.67	20.72	20.83	14.12	14.17	14.28
			50	0	19.66	19.58	19.64	13.11	13.03	13.09
	64QAM		1	0	19.37	19.83	19.14	12.82	13.28	12.59
			1	1	19.37	20.65	19.19	12.82	14.10	12.64
			25	12	19.17	20.77	19.24	12.62	14.22	12.69
			50	0	19.10	19.59	19.15	12.55	13.04	12.60
	256QAM		1	0	16.94	19.19	16.94	10.39	12.64	10.39
			1	1	17.01	19.05	17.06	10.46	12.50	10.51
			25	12	17.25	19.16	17.22	10.70	12.61	10.67
			50	0	17.16	19.12	17.25	10.61	12.57	10.70
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
					147100	147400	147700	147100	147400	147700
					735.5	737.0	738.5	735.5	737.0	738.5
15	PI/2 BPSK	15	1	0	20.93	21.44	20.95	14.38	14.89	14.40
			1	1	22.02	22.00	21.95	15.47	15.45	15.40
			36	18	22.18	22.13	22.14	15.63	15.58	15.59



	QPSK	75	0	21.09	21.59	21.13	14.54	15.04	14.58
		1	0	20.94	21.54	20.97	14.39	14.99	14.42
		1	1	22.05	21.99	21.98	15.50	15.44	15.43
		36	18	22.17	22.17	22.17	15.62	15.62	15.62
	16QAM	75	0	21.02	21.59	21.12	14.47	15.04	14.57
		1	0	20.16	20.14	20.11	13.61	13.59	13.56
		1	1	21.24	21.08	21.15	14.69	14.53	14.60
		36	18	21.10	21.14	21.26	14.55	14.59	14.71
	64QAM	75	0	20.09	20.02	20.07	13.54	13.47	13.52
		1	0	19.80	20.24	19.56	13.25	13.69	13.01
		1	1	19.81	21.07	19.62	13.26	14.52	13.07
		36	18	19.61	21.19	19.65	13.06	14.64	13.10
	256QAM	75	0	19.52	20.03	19.57	12.97	13.48	13.02
		1	0	17.38	19.62	17.38	10.83	13.07	10.83
		1	1	17.44	19.47	17.49	10.89	12.92	10.94
		36	18	17.68	19.60	17.65	11.13	13.05	11.10
		75	0	17.59	19.53	17.67	11.04	12.98	11.12

DC_7A-n28A (Subset 1)											
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
						141100	141900	142700	141100	141900	142700
						705.50	709.50	713.50	705.50	709.50	713.50
5	PI/2 BPSK	Band7-5M Hz-2535M Hz-QPSK- 1#0	15	1	0	21.67	21.05	21.43	15.12	14.50	14.88
				1	1	22.18	22.18	21.93	15.63	15.63	15.38
				12	6	22.16	22.14	21.99	15.61	15.59	15.44
				25	0	21.47	21.18	21.54	14.92	14.63	14.99
	QPSK			1	0	21.65	21.06	21.36	15.10	14.51	14.81
				1	1	22.16	22.14	21.92	15.61	15.59	15.37
				12	6	22.16	22.14	22.05	15.61	15.59	15.50
				25	0	21.54	21.21	21.51	14.99	14.66	14.96
	16QAM			1	0	19.73	20.31	19.50	13.18	13.76	12.95
				1	1	20.81	21.29	20.49	14.26	14.74	13.94
				12	6	21.16	21.19	21.02	14.61	14.64	14.47
				25	0	19.99	20.18	19.99	13.44	13.63	13.44
	64QAM			1	0	20.00	19.55	20.04	13.45	13.00	13.49
				1	1	21.10	19.61	21.01	14.55	13.06	14.46
				12	6	21.17	19.62	20.99	14.62	13.07	14.44
				25	0	20.01	19.62	20.11	13.46	13.07	13.56
	256QAM			1	0	19.19	17.73	18.88	12.64	11.18	12.33



Bandwidth(MHz)	Modulation	Modulation (LTE)	SCS (KHz)	1	1	19.30	17.78	18.95	12.75	11.23	12.40		
				12	6	19.56	17.68	19.53	13.01	11.13	12.98		
				25	0	19.53	17.80	19.60	12.98	11.25	13.05		
Maximum Output Power(dBm)	ERP (dBm)	141600	141900	142200	141600	141900	142200						
								708.0	709.5	711.0	708.0	709.5	711.0
10	PI/2 BPSK	Band7-5M Hz-2535M Hz-QPSK- 1#0	15	1	0	21.94	21.31	21.70	15.39	14.76	15.15		
				1	1	22.47	22.44	22.21	15.92	15.89	15.66		
				25	12	22.44	22.43	22.26	15.89	15.88	15.71		
				50	0	21.74	21.43	21.80	15.19	14.88	15.25		
	QPSK			1	0	21.93	21.32	21.63	15.38	14.77	15.08		
				1	1	22.43	22.39	22.18	15.88	15.84	15.63		
				25	12	22.43	22.39	22.31	15.88	15.84	15.76		
				50	0	21.82	21.47	21.76	15.27	14.92	15.21		
	16QAM			1	0	19.99	20.59	19.76	13.44	14.04	13.21		
				1	1	21.09	21.56	20.77	14.54	15.01	14.22		
				25	12	21.43	21.45	21.29	14.88	14.90	14.74		
				50	0	20.26	20.46	20.26	13.71	13.91	13.71		
	64QAM			1	0	20.27	19.80	20.30	13.72	13.25	13.75		
				1	1	21.38	19.87	21.28	14.83	13.32	14.73		
				25	12	21.45	19.88	21.24	14.90	13.33	14.69		
				50	0	20.27	19.90	20.37	13.72	13.35	13.82		
	256QAM			1	0	19.47	18.00	19.16	12.92	11.45	12.61		
				1	1	19.57	18.04	19.22	13.02	11.49	12.67		
				25	12	19.83	17.96	19.80	13.28	11.41	13.25		
				50	0	19.80	18.05	19.86	13.25	11.50	13.31		

DC_7A-n28A (Subset 2)											
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
						140700	147400	148700	140700	147400	148700
						730.5	737.0	743.5	730.5	737.0	743.5
5	PI/2 BPSK	Band7-5M Hz-2535M Hz-QPSK-1 #0	15	1	0	21.04	21.60	20.96	14.49	15.05	14.41
				1	1	22.14	22.12	22.11	15.59	15.57	15.56
				12	6	22.27	22.24	22.30	15.72	15.69	15.75
				25	0	21.13	21.69	21.18	14.58	15.14	14.63
	QPSK			1	0	21.07	21.65	21.07	14.52	15.10	14.52
				1	1	22.18	22.12	22.08	15.63	15.57	15.53
				12	6	22.21	22.31	22.27	15.66	15.76	15.72



				25	0	21.23	21.70	21.16	14.68	15.15	14.61
	16QAM			1	0	20.34	19.62	20.33	13.79	13.07	13.78
				1	1	21.41	20.74	21.37	14.86	14.19	14.82
				12	6	21.31	21.23	21.30	14.76	14.68	14.75
				25	0	20.22	20.17	20.22	13.67	13.62	13.67
	64QAM			1	0	19.54	19.92	19.40	12.99	13.37	12.85
				1	1	19.49	20.99	19.41	12.94	14.44	12.86
				12	6	19.65	21.25	19.69	13.10	14.70	13.14
				25	0	19.67	20.16	19.62	13.12	13.61	13.07
	256QAM			1	0	17.67	19.04	17.70	11.12	12.49	11.15
				1	1	17.69	19.09	17.73	11.14	12.54	11.18
				12	6	17.90	19.61	17.82	11.35	13.06	11.27
				25	0	17.80	19.65	17.76	11.25	13.10	11.21
	Bandwidth (MHz)			Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)		
146600		147400	148200						146600	147400	148200
733.0		737.0	741.0						733.0	737.0	741.0
10	PI/2 BPSK	Band7-5M Hz-2535M Hz-QPSK-1 #0	15	1	0	20.94	21.47	20.85	14.39	14.92	14.30
				1	1	22.03	22.02	21.99	15.48	15.47	15.44
				25	12	22.15	22.10	22.17	15.60	15.55	15.62
				50	0	21.02	21.56	21.06	14.47	15.01	14.51
	QPSK			1	0	20.95	21.51	20.94	14.40	14.96	14.39
				1	1	22.06	22.00	21.95	15.51	15.45	15.40
				25	12	22.10	22.18	22.13	15.55	15.63	15.58
				50	0	21.09	21.59	21.05	14.54	15.04	14.50
	16QAM			1	0	20.23	19.50	20.22	13.68	12.95	13.67
				1	1	21.29	20.61	21.25	14.74	14.06	14.70
				25	12	21.19	21.12	21.18	14.64	14.57	14.63
				50	0	20.10	20.03	20.09	13.55	13.48	13.54
	64QAM			1	0	19.43	19.79	19.28	12.88	13.24	12.73
				1	1	19.37	20.85	19.28	12.82	14.30	12.73
				25	12	19.51	21.14	19.58	12.96	14.59	13.03
				50	0	19.56	20.04	19.51	13.01	13.49	12.96
	256QAM			1	0	17.55	18.91	17.58	11.00	12.36	11.03
				1	1	17.57	18.98	17.61	11.02	12.43	11.06
				25	12	17.78	19.47	17.69	11.23	12.92	11.14
				50	0	17.69	19.52	17.64	11.14	12.97	11.09



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Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
						147100	147400	147700	147100	147400	147700
						735.5	737.0	738.5	735.5	737.0	738.5
15	PI/2 BPSK	Band7-5M Hz-2535M Hz-QPSK-1 #0	15	1	0	21.24	21.76	21.15	14.69	15.21	14.60
				1	1	22.35	22.31	22.30	15.80	15.76	15.75
				36	18	22.46	22.42	22.47	15.91	15.87	15.92
				75	0	21.32	21.84	21.35	14.77	15.29	14.80
	QPSK			1	0	21.26	21.80	21.24	14.71	15.25	14.69
				1	1	22.36	22.28	22.24	15.81	15.73	15.69
				36	18	22.40	22.46	22.42	15.85	15.91	15.87
				75	0	21.40	21.88	21.33	14.85	15.33	14.78
	16QAM			1	0	20.52	19.81	20.51	13.97	13.26	13.96
				1	1	21.60	20.91	21.56	15.05	14.36	15.01
				36	18	21.49	21.41	21.48	14.94	14.86	14.93
				75	0	20.40	20.34	20.39	13.85	13.79	13.84
	64QAM			1	0	19.73	20.07	19.57	13.18	13.52	13.02
				1	1	19.68	21.14	19.58	13.13	14.59	13.03
				36	18	19.82	21.43	19.86	13.27	14.88	13.31
				75	0	19.85	20.35	19.80	13.30	13.80	13.25
	256QAM			1	0	17.86	19.21	17.89	11.31	12.66	11.34
				1	1	17.87	19.27	17.91	11.32	12.72	11.36
				36	18	18.08	19.78	17.99	11.53	13.23	11.44
				75	0	17.99	19.80	17.93	11.44	13.25	11.38

6.2 Occupied Bandwidth

LTE Band 28 Subset 1						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	3	27225	704.5	2.697	2.945
			27275	709	2.695	2.949
			27325	714.5	2.701	2.945
		5	27235	705.5	4.517	4.887
			27275	709	4.514	4.922
			27315	713.5	4.509	4.890
		10	27260	708	8.960	9.760
			27275	709	8.973	9.677
			27290	711	8.982	9.723
	16QAM	3	27225	704.5	2.689	2.963
			27275	709	2.685	2.932
			27325	714.5	2.693	2.957
		5	27235	705.5	4.490	4.895
			27275	709	4.513	4.930
			27315	713.5	4.505	4.971
		10	27260	708	8.986	9.700
			27275	709	8.986	9.611
			27290	711	9.012	9.722
	64QAM	3	27225	704.5	2.695	2.967
			27275	709	2.693	2.928
			27325	714.5	2.704	2.956
		5	27235	705.5	4.503	4.984
			27275	709	4.515	4.985
			27315	713.5	4.513	4.948
		10	27260	708	8.956	9.692
			27275	709	8.971	9.629
			27290	711	9.019	9.736



LTE Band 28 Subset 2						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	3	27475	729.5	2.692	2.947
			27550	737	2.702	2.932
			27625	744.5	2.688	2.935
		5	27485	730.5	4.509	4.928
			27550	737	4.501	4.914
			27615	743.5	4.504	4.958
		10	27510	733	8.983	9.815
			27550	737	8.965	9.650
			27590	741	8.973	9.764
		15	27535	735.5	13.465	14.580
			27550	737	13.430	14.520
			27565	738.5	13.467	14.400
	16QAM	3	27475	729.5	2.685	2.932
			27550	737	2.697	2.932
			27625	744.5	2.690	2.930
		5	27485	730.5	4.504	4.861
			27550	737	4.509	4.923
			27615	743.5	4.503	4.938
		10	27510	733	8.979	9.663
			27550	737	8.956	9.789
			27590	741	8.989	9.629
		15	27535	735.5	13.449	14.550
			27550	737	13.453	14.480
			27565	738.5	13.391	14.380
	64QAM	3	27475	729.5	2.699	2.936
			27550	737	2.695	2.946
			27625	744.5	2.690	2.972
		5	27485	730.5	4.508	4.930
			27550	737	4.503	4.919
			27615	743.5	4.503	4.933
		10	27510	733	8.990	9.704
			27550	737	8.956	9.691
			27590	741	8.970	9.655
		15	27535	735.5	13.453	14.520
			27550	737	13.417	14.420
			27565	738.5	13.435	14.560



NR n28 Subset 1						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	BPSK	10	141600	708	8.965	9.651
			141900	709.5	8.993	10.330
			142200	711	8.993	10.090
	QPSK	10	141600	708	8.980	9.843
			141900	709.5	8.982	10.350
			142200	711	9.001	10.160
	16QAM	10	141600	708	8.959	9.925
			141900	709.5	8.971	9.699
			142200	711	8.986	9.809
	64QAM	10	141600	708	8.959	10.350
			141900	709.5	8.978	9.848
			142200	711	8.991	9.613
1%	BPSK	10	141600	708	8.985	10.130
			141900	709.5	8.987	9.909
			142200	711	9.041	9.673
	QPSK	10	141600	708	0.829	1.099
			141900	709.5	0.805	1.120
			142200	711	0.843	1.173
	16QAM	10	141600	708	0.856	1.188
			141900	709.5	0.790	1.075
			142200	711	0.845	1.098
	64QAM	10	141600	708	0.918	1.129
			141900	709.5	0.787	0.999
			142200	711	0.840	1.035
	256QAM	10	141600	708	0.734	1.088
			141900	709.5	0.814	1.082
			142200	711	0.791	1.037
			141600	708	0.819	1.141
			141900	709.5	1.309	1.530
			142200	711	0.814	1.124



NR n28 Subset 2						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	BPSK	15	147100	735.5	13.426	14.310
			147400	737	13.425	14.170
			147700	738.5	13.454	14.350
	QPSK	15	147100	735.5	13.457	14.130
			147400	737	13.439	14.240
			147700	738.5	13.441	14.100
	16QAM	15	147100	735.5	13.441	14.280
			147400	737	13.435	14.210
			147700	738.5	13.420	14.260
	64QAM	15	147100	735.5	13.432	14.120
			147400	737	13.456	14.210
			147700	738.5	13.420	14.170
1%	BPSK	15	147100	735.5	0.820	1.026
			147400	737	0.815	1.037
			147700	738.5	0.869	1.036
	QPSK	15	147100	735.5	0.841	1.064
			147400	737	0.836	1.068
			147700	738.5	0.891	1.088
	16QAM	15	147100	735.5	0.779	1.064
			147400	737	0.747	1.041
			147700	738.5	0.841	0.992
	64QAM	15	147100	735.5	0.810	0.993
			147400	737	0.796	1.058
			147700	738.5	0.807	1.003
	256QAM	15	147100	735.5	0.801	1.036
			147400	737	0.733	0.973
			147700	738.5	0.741	0.944



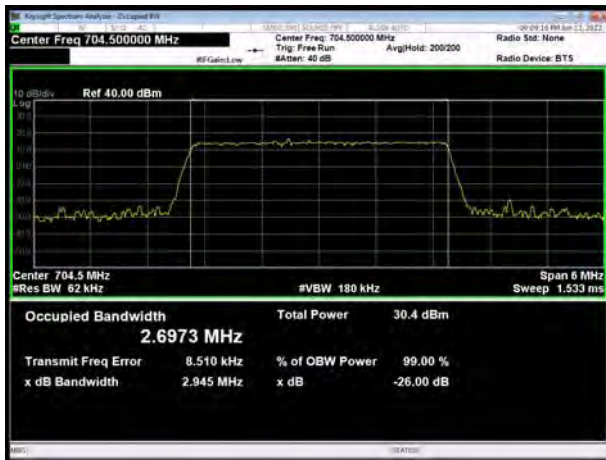
DC_7A-n28A (Subset 1)						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	BPSK	10	141600	708	8.971	10.040
			141900	709.5	8.978	9.973
			142200	711	9.013	10.550
	QPSK	10	141600	708	8.971	10.110
			141900	709.5	8.982	9.718
			142200	711	8.999	10.740
	16QAM	10	141600	708	9.011	9.742
			141900	709.5	8.960	9.726
			142200	711	8.999	9.994
	64QAM	10	141600	708	8.953	9.824
			141900	709.5	8.994	10.330
			142200	711	8.982	10.020
1%	BPSK	10	141600	708	8.974	9.699
			141900	709.5	9.011	10.800
			142200	711	9.020	9.726
	QPSK	10	141600	708	0.896	1.145
			141900	709.5	0.824	1.269
			142200	711	0.978	1.259
	16QAM	10	141600	708	0.912	1.261
			141900	709.5	0.866	1.140
			142200	711	0.892	1.094
	64QAM	10	141600	708	0.876	1.132
			141900	709.5	0.910	1.308
			142200	711	0.811	1.169
	256QAM	10	141600	708	0.830	1.085
			141900	709.5	0.861	1.134
			142200	711	0.837	1.131
			141600	708	0.791	1.096
			141900	709.5	0.794	1.097
			142200	711	0.785	1.094



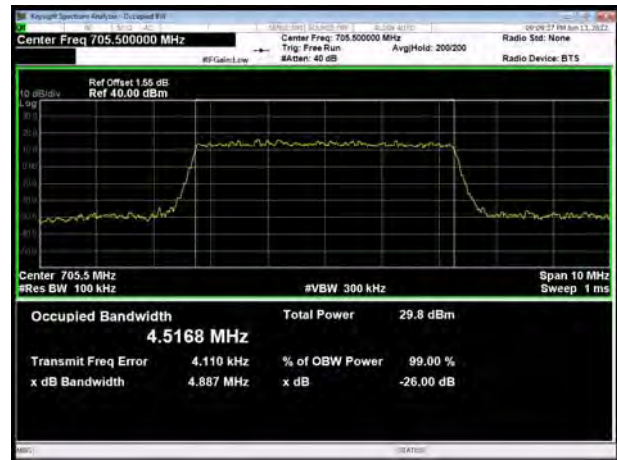
DC_7A-n28A (Subset 2)						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	BPSK	15	147100	735.5	13.452	14.430
			147400	737	13.425	14.420
			147700	738.5	13.450	14.640
	QPSK	15	147100	735.5	13.457	14.250
			147400	737	13.419	14.180
			147700	738.5	13.446	14.830
	16QAM	15	147100	735.5	13.433	14.600
			147400	737	13.438	14.850
			147700	738.5	13.420	14.200
	64QAM	15	147100	735.5	13.424	14.300
			147400	737	13.440	14.280
			147700	738.5	13.464	14.370
1%	BPSK	15	147100	735.5	1.201	1.417
			147400	737	1.035	1.247
			147700	738.5	1.283	1.306
	QPSK	15	147100	735.5	1.035	1.342
			147400	737	0.931	1.286
			147700	738.5	1.095	1.129
	16QAM	15	147100	735.5	0.752	0.974
			147400	737	0.957	1.292
			147700	738.5	0.903	1.062
	64QAM	15	147100	735.5	0.915	1.101
			147400	737	0.964	1.034
			147700	738.5	0.944	1.080
	256QAM	15	147100	735.5	0.793	1.001
			147400	737	0.712	0.978
			147700	738.5	0.859	1.045



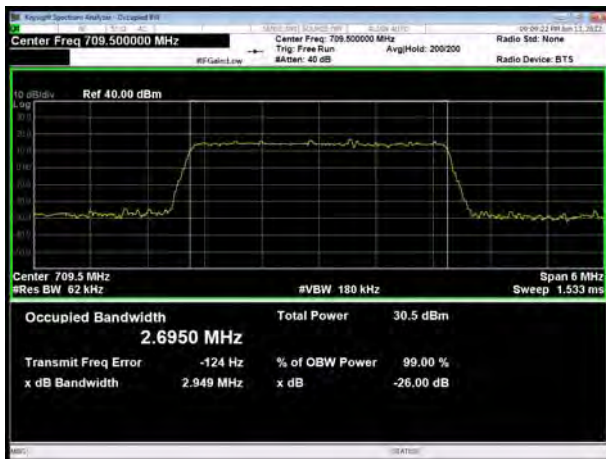
LTE band 28 Subset 1 QPSK 3MHz CH-Low



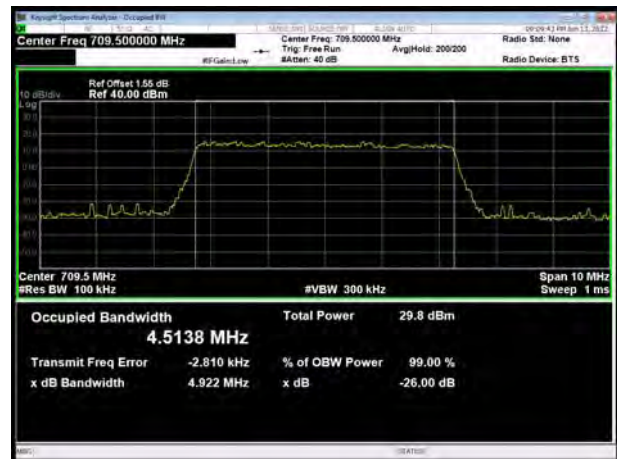
LTE band 28 Subset 1 QPSK 5MHz CH-Low



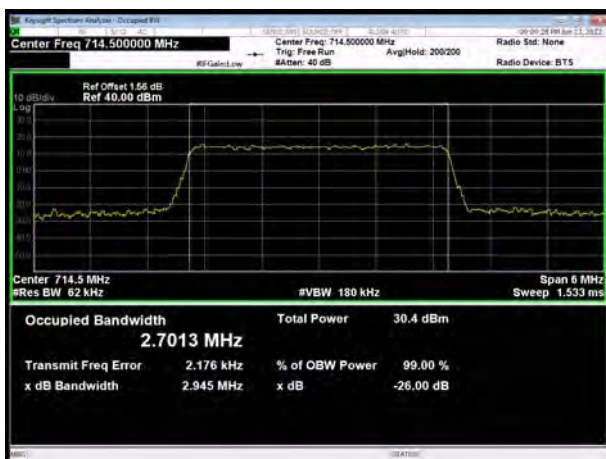
LTE band 28 Subset 1 QPSK 3MHz CH-Middle



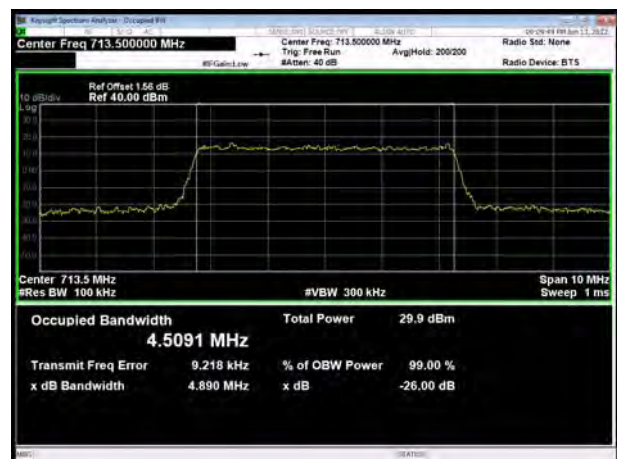
LTE band 28 Subset 1 QPSK 5MHz CH-Middle



LTE band 28 Subset 1 QPSK 3MHz CH-High



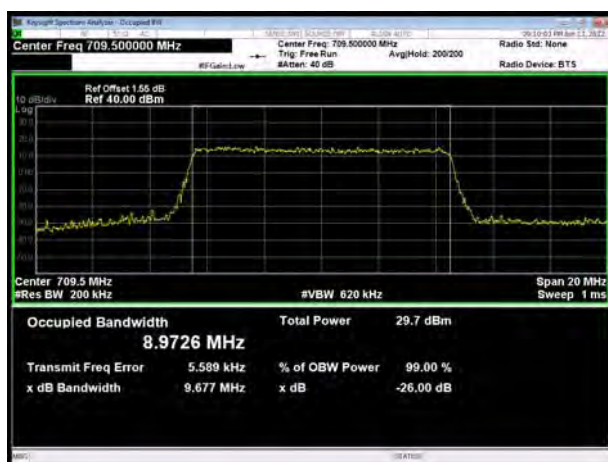
LTE band 28 Subset 1 QPSK 5MHz CH-High



LTE band 28 Subset 1 QPSK 10MHz CH-Low



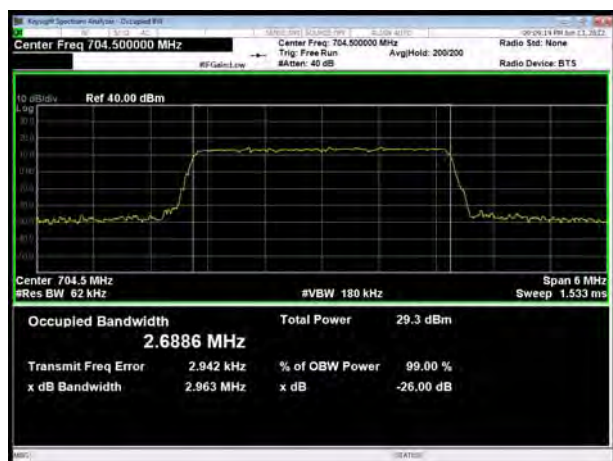
LTE band 28 Subset 1 QPSK 10MHz CH-Middle



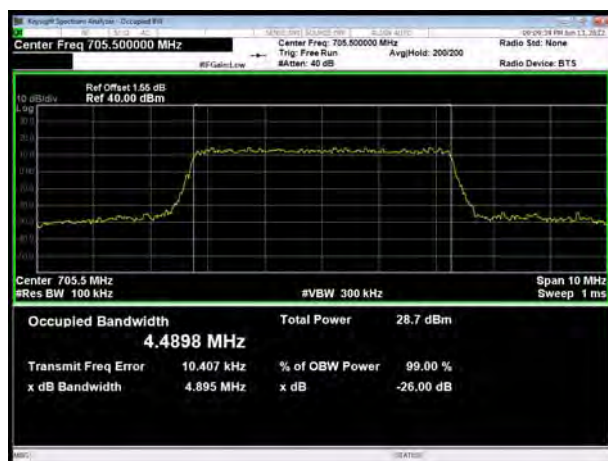
LTE band 28 Subset 1 QPSK 10MHz CH-High



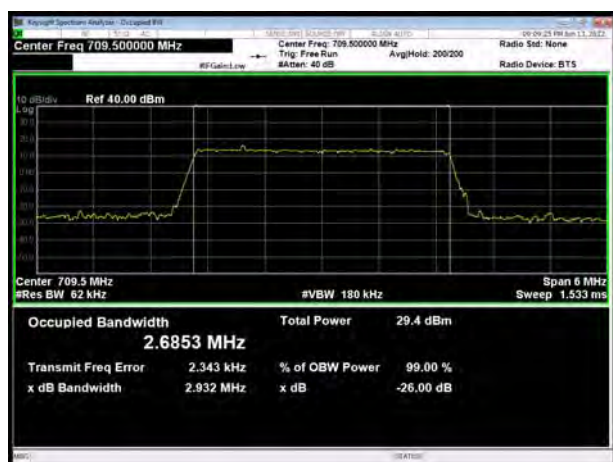
LTE band 28 Subset 1 16QAM 3MHz CH-Low



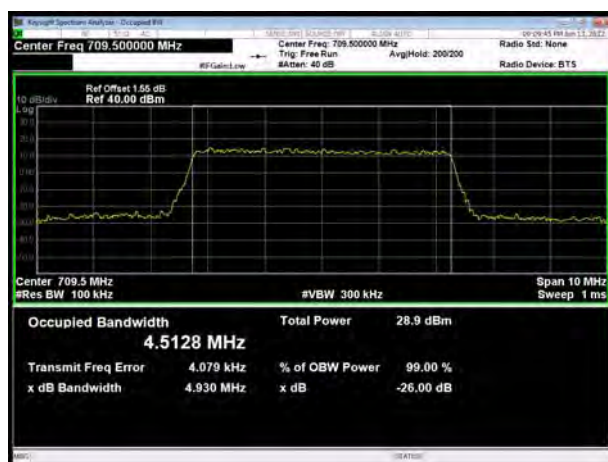
LTE band 28 Subset 1 16QAM 5MHz CH-Low



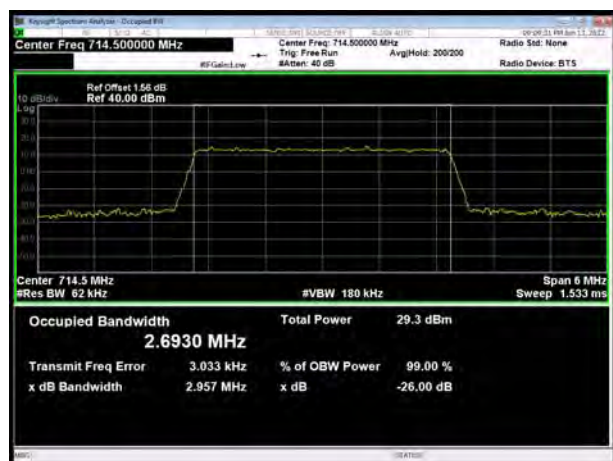
LTE band 28 Subset 1 16QAM 3MHz CH-Middle



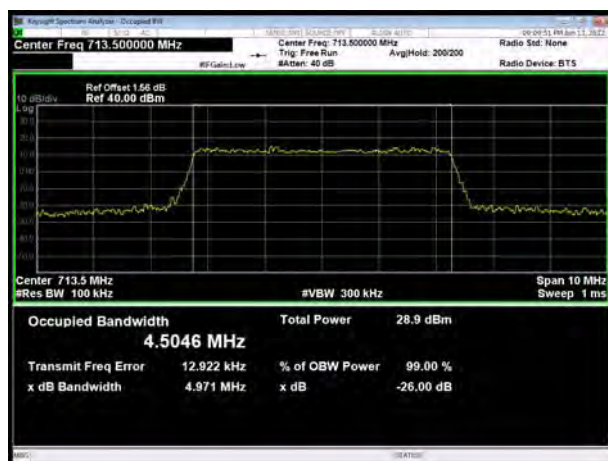
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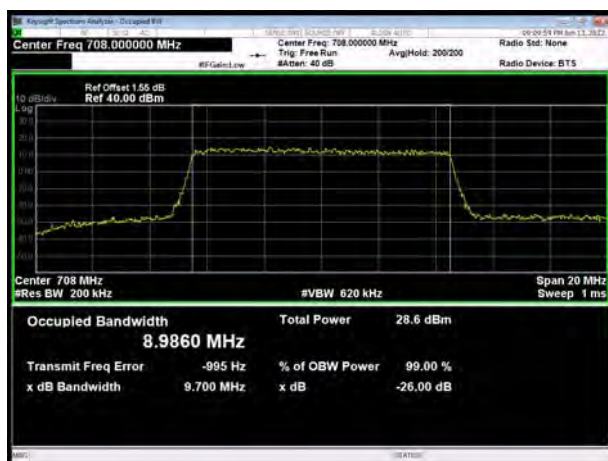
LTE band 28 Subset 1 16QAM 3MHz CH-High



LTE band 28 Subset 1 16QAM 5MHz CH-High



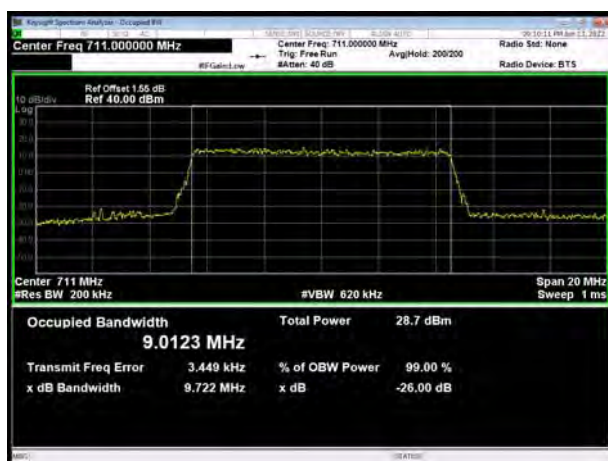
LTE band 28 Subset 1 16QAM 10MHz CH-Low



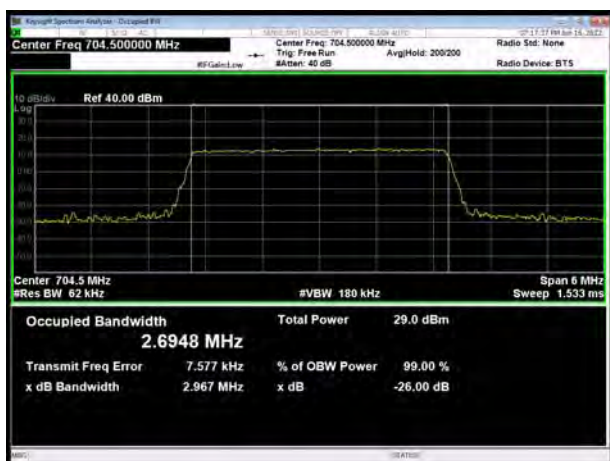
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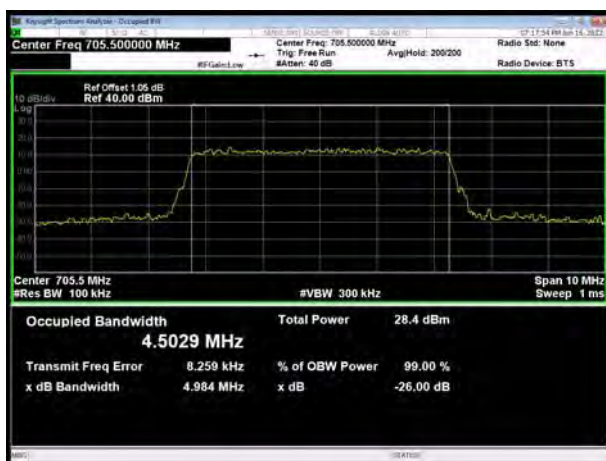
LTE band 28 Subset 1 16QAM 10MHz CH-High



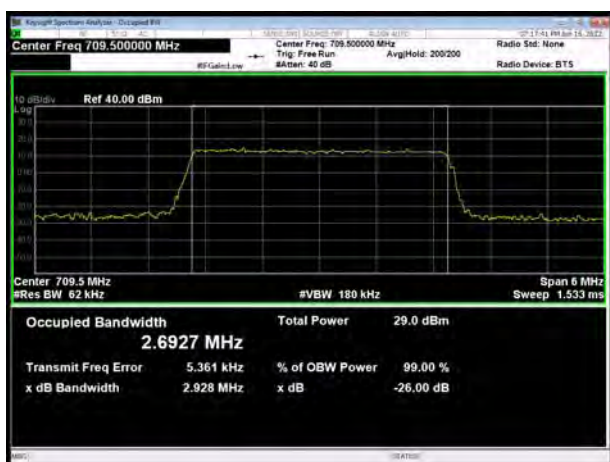
LTE band 28 Subset 1 64QAM 3MHz CH-Low



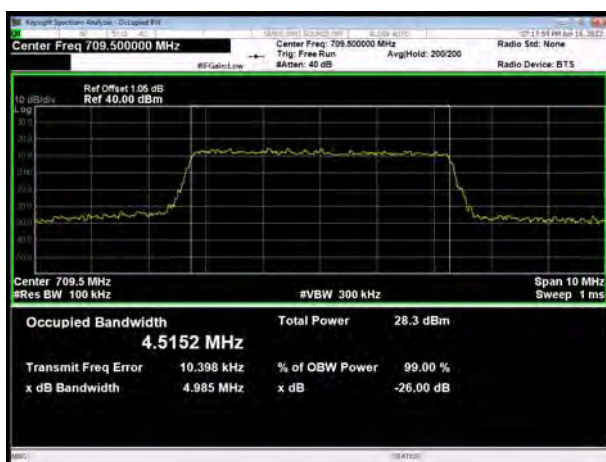
LTE band 28 Subset 1 64QAM 5MHz CH-Low



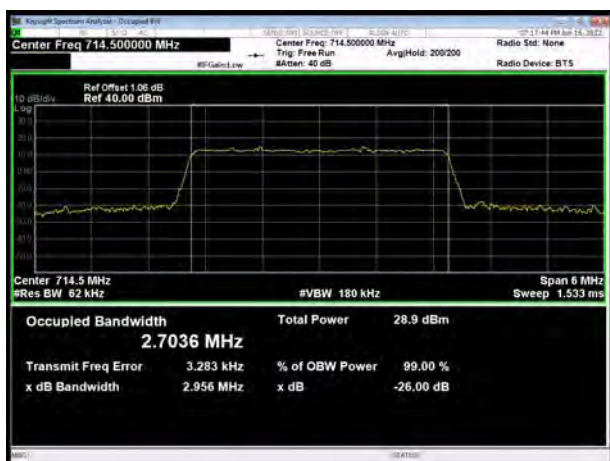
LTE band 28 Subset 1 64QAM 3MHz CH-Middle



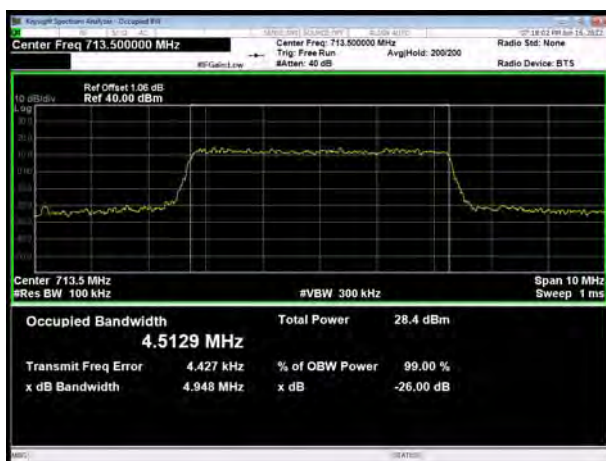
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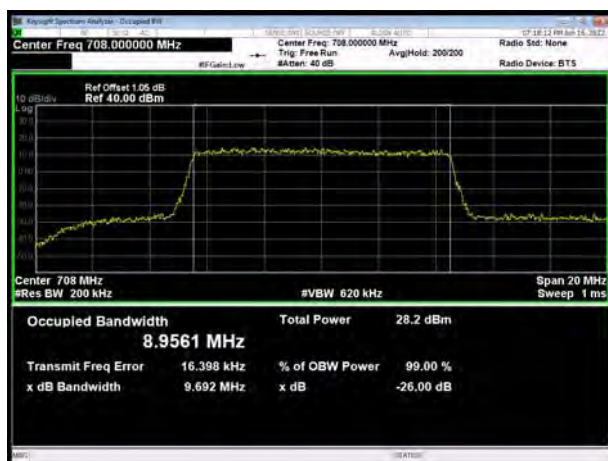
LTE band 28 Subset 1 64QAM 3MHz CH-High



LTE band 28 Subset 1 64QAM 5MHz CH-High



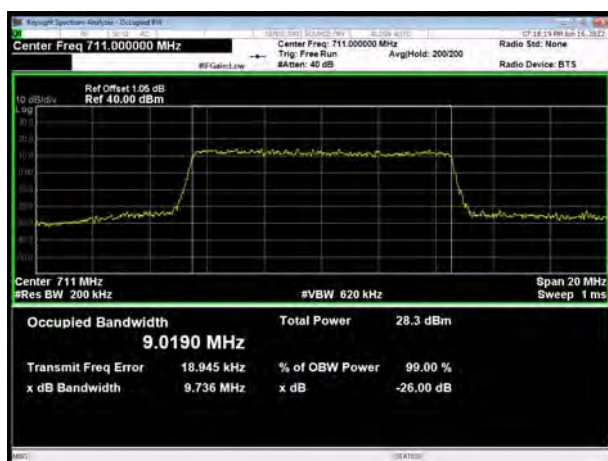
LTE band 28 Subset 1 64QAM 10MHz CH-Low



LTE band 28 Subset 1 64QAM 10MHz CH-Middle



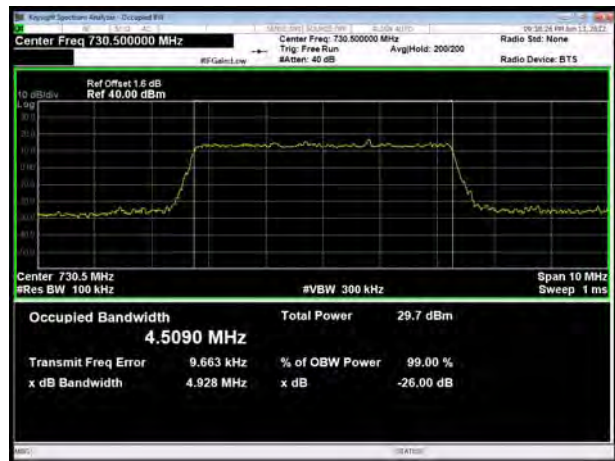
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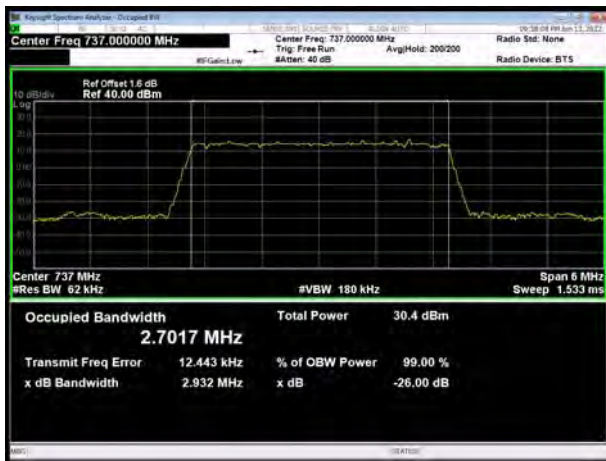
LTE band 28 Subset 2 QPSK 3MHz CH-Low



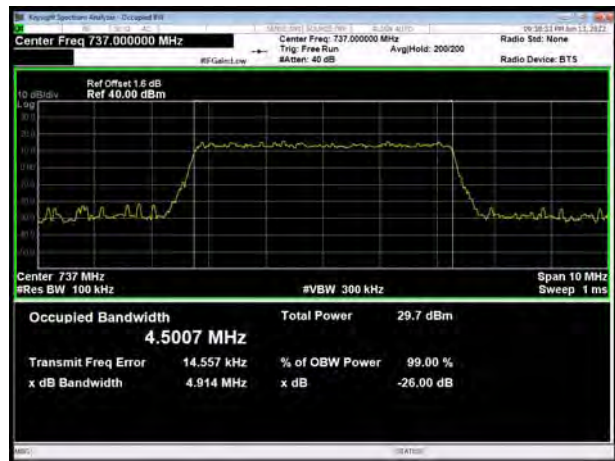
LTE band 28 Subset 2 QPSK 5MHz CH-Low



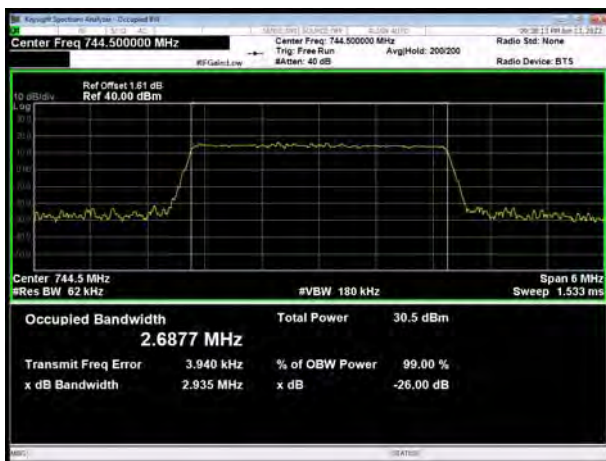
LTE band 28 Subset 2 QPSK 3MHz CH-Middle



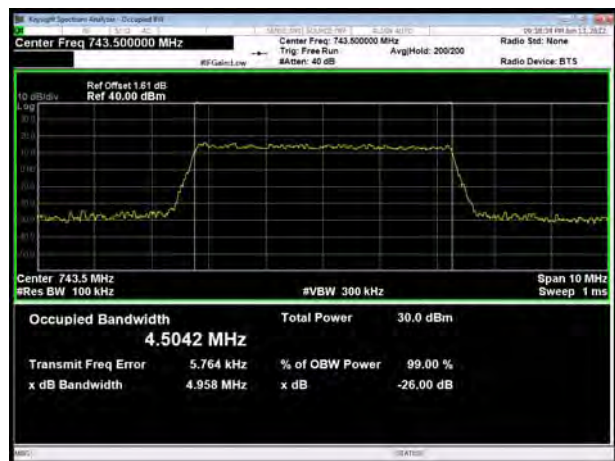
LTE band 28 Subset 2 QPSK 5MHz CH-Middle



LTE band 28 Subset 2 QPSK 3MHz CH-High



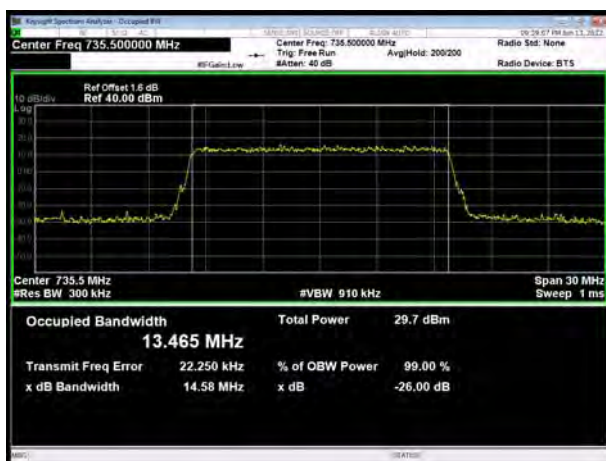
LTE band 28 Subset 2 QPSK 5MHz CH-High



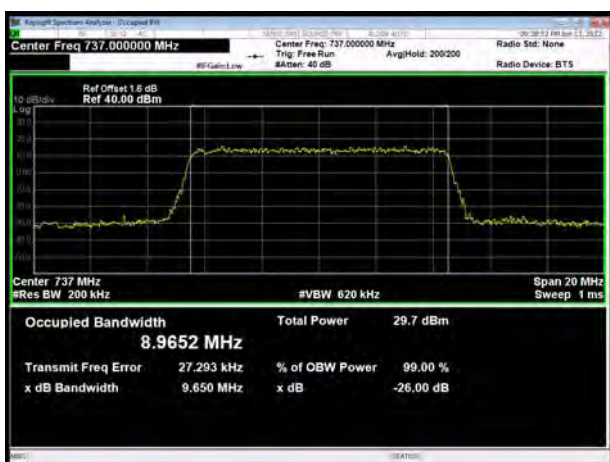
LTE band 28 Subset 2 QPSK 10MHz CH-Low



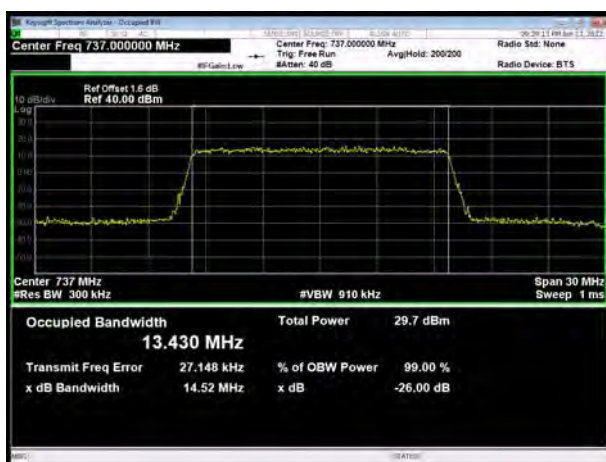
LTE band 28 Subset 2 QPSK 15MHz CH-Low



LTE band 28 Subset 2 QPSK 10MHz CH-Middle



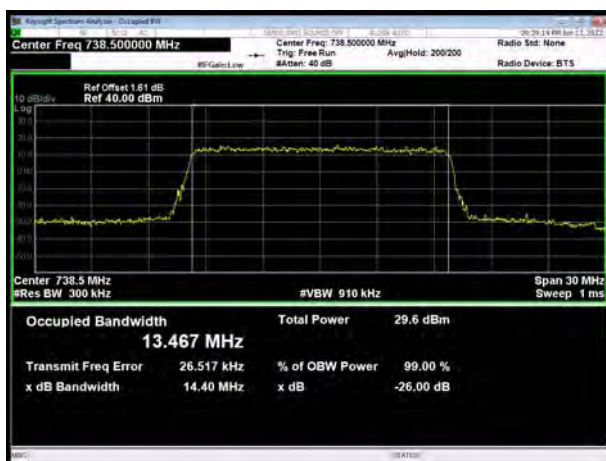
LTE band 28 Subset 2 QPSK 15MHz CH-Middle



LTE band 28 Subset 2 QPSK 10MHz CH-High



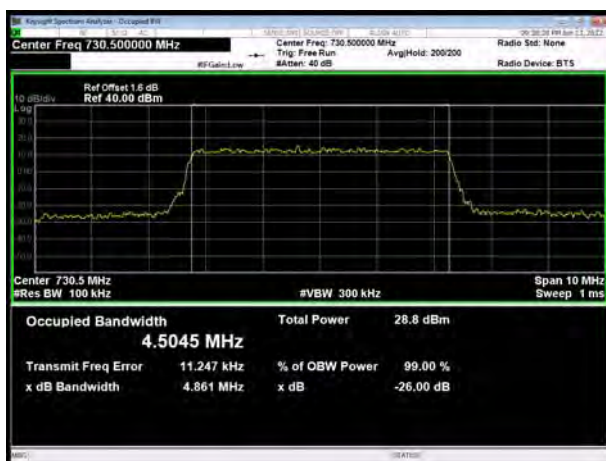
LTE band 28 Subset 2 QPSK 15MHz CH-High



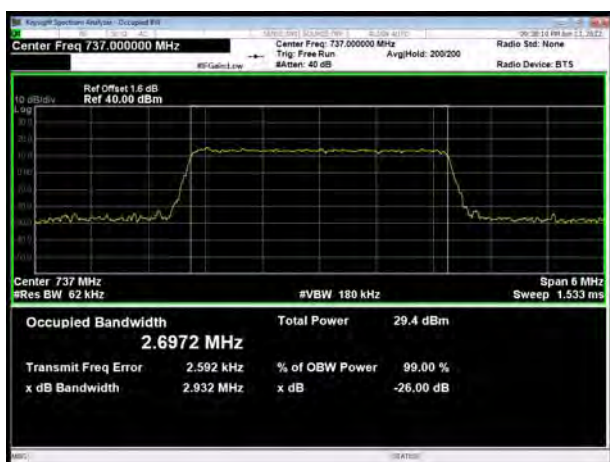
LTE band 28 Subset 2 16QAM 3MHz CH-Low



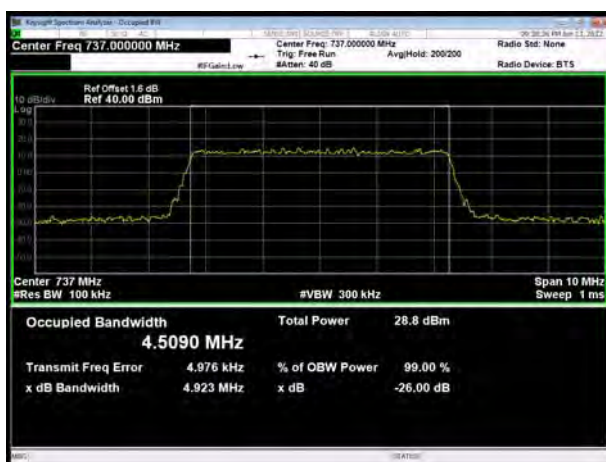
LTE band 28 Subset 2 16QAM 5MHz CH-Low



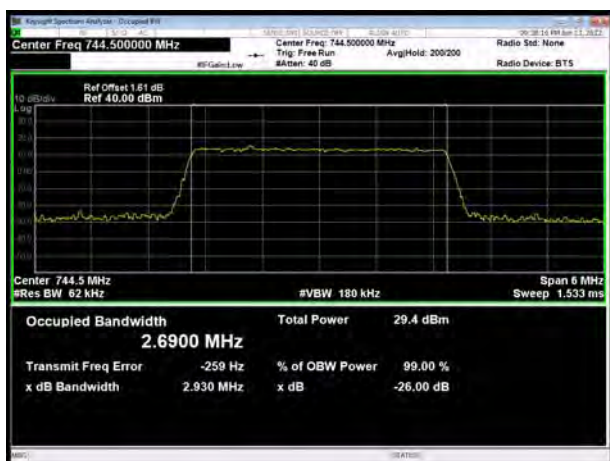
LTE band 28 Subset 2 16QAM 3MHz CH-Middle



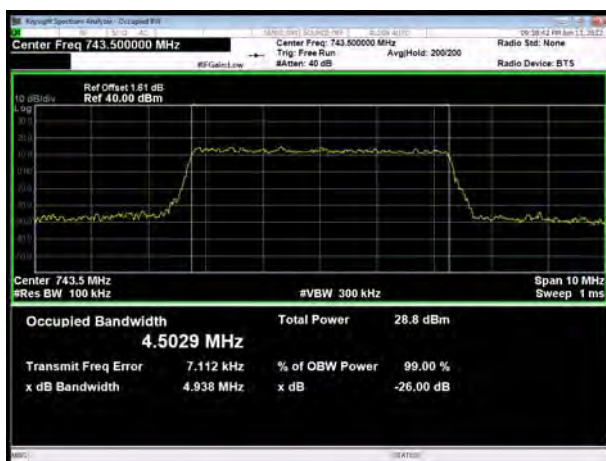
LTE band 28 Subset 2 16QAM 5MHz CH-Middle



LTE band 28 Subset 2 16QAM 3MHz CH-High



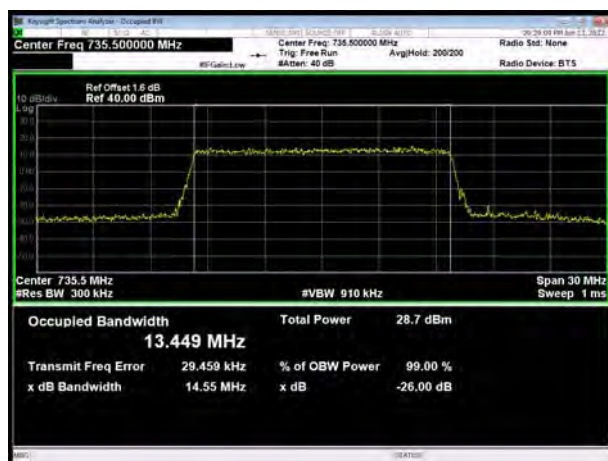
LTE band 28 Subset 2 16QAM 5MHz CH-High



LTE band 28 Subset 2 16QAM 10MHz CH-Low



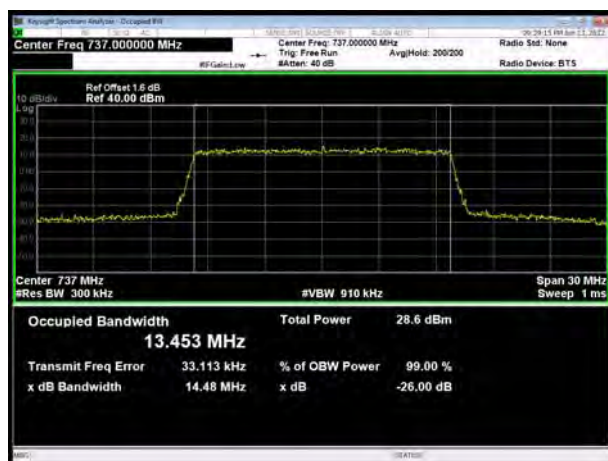
LTE band 28 Subset 2 16QAM 15MHz CH-Low



LTE band 28 Subset 2 16QAM 10MHz CH-Middle



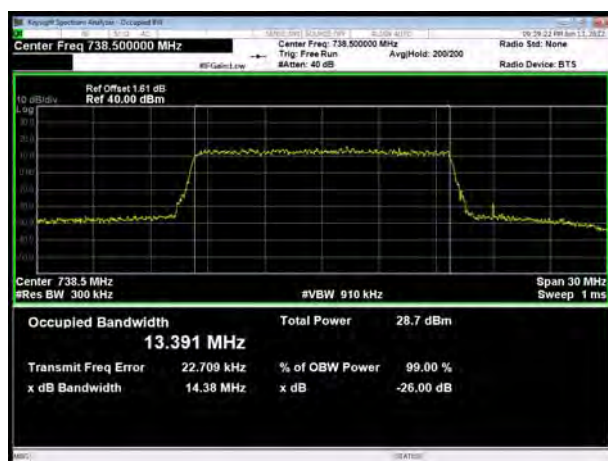
LTE band 28 Subset 2 16QAM 15MHz CH-Middle



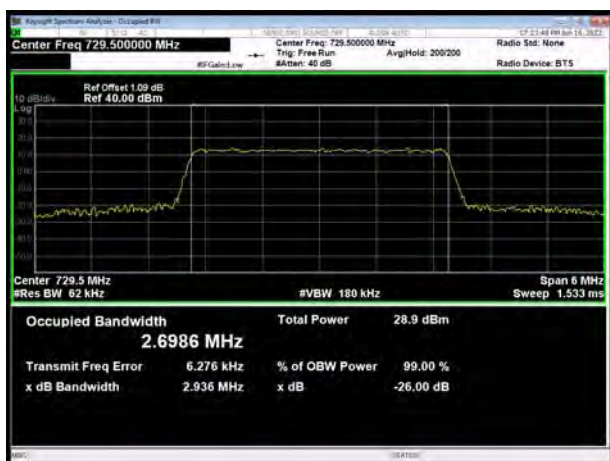
LTE band 28 Subset 2 16QAM 10MHz CH-High



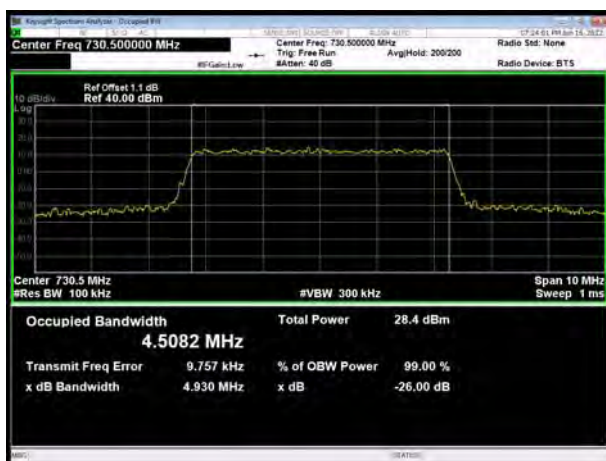
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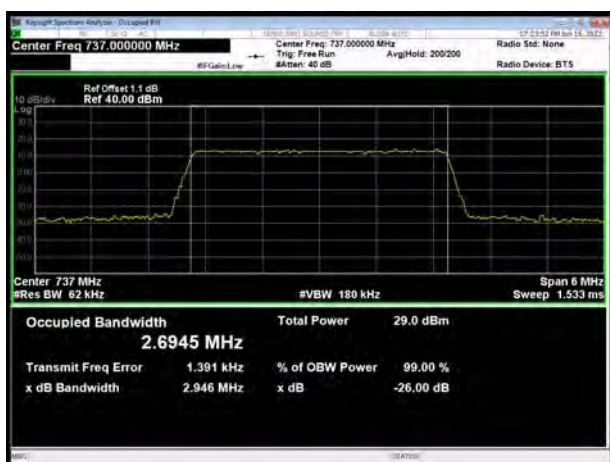
LTE band 28 Subset 2 64QAM 3MHz CH-Low



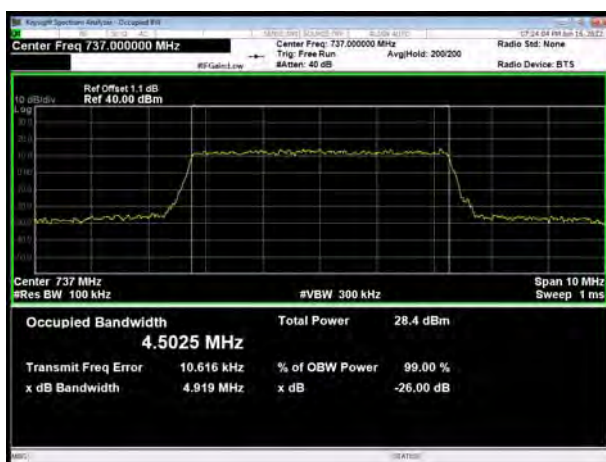
LTE band 28 Subset 2 64QAM 5MHz CH-Low



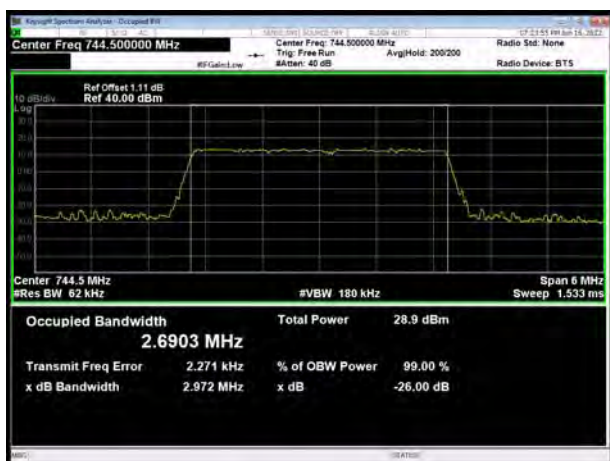
LTE band 28 Subset 2 64QAM 3MHz CH-Middle



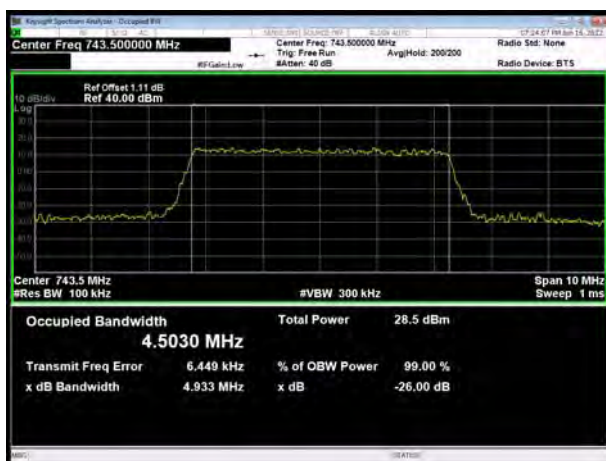
LTE band 28 Subset 2 64QAM 5MHz CH-Middle



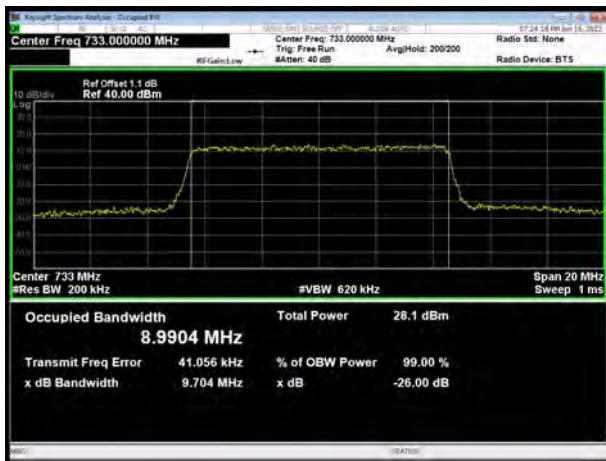
LTE band 28 Subset 2 64QAM 3MHz CH-High



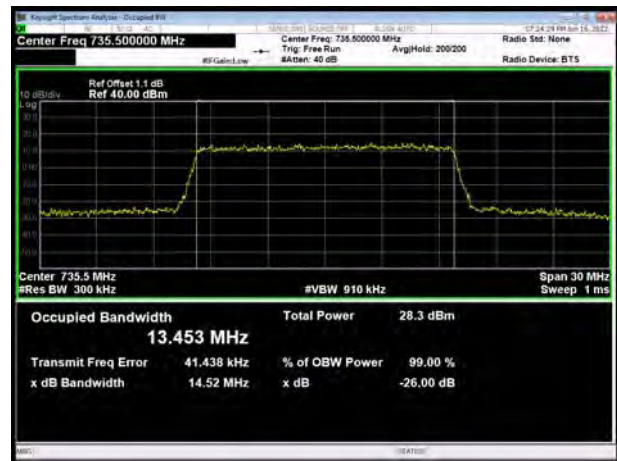
LTE band 28 Subset 2 64QAM 5MHz CH-High



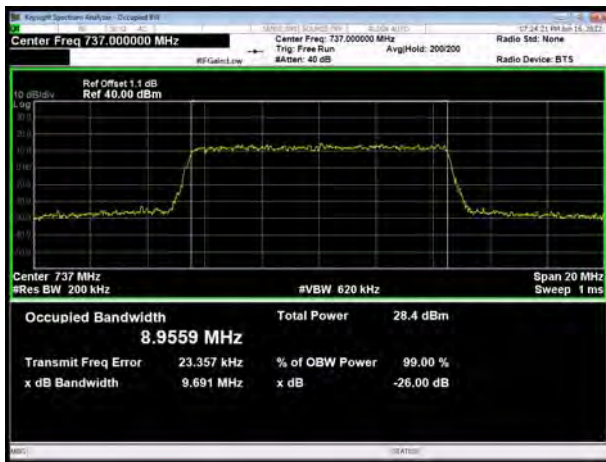
LTE band 28 Subset 2 64QAM 10MHz CH-Low



LTE band 28 Subset 2 64QAM 15MHz CH-Low



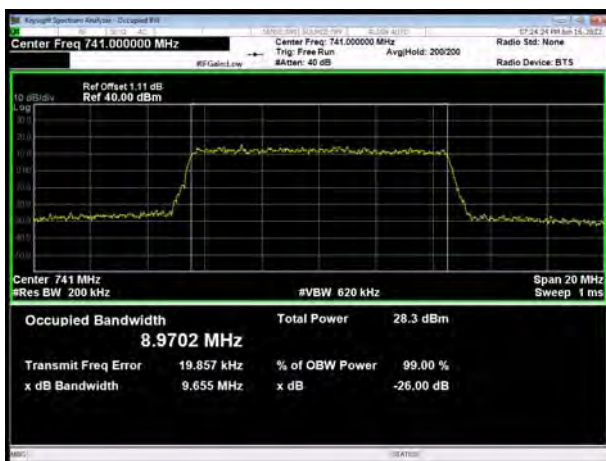
LTE band 28 Subset 2 64QAM 10MHz CH-Middle



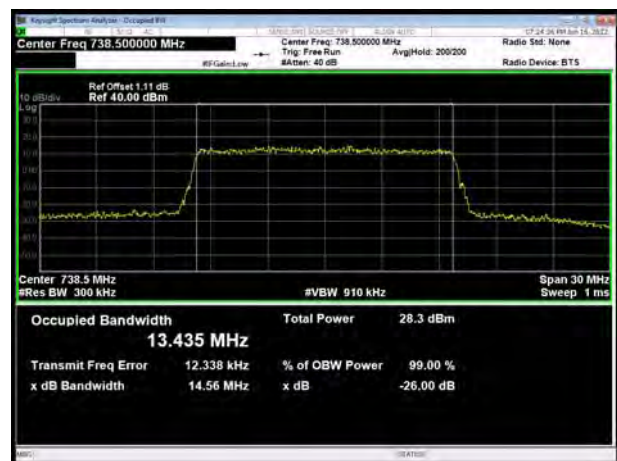
LTE band 28 Subset 2 64QAM 15MHz CH-Middle

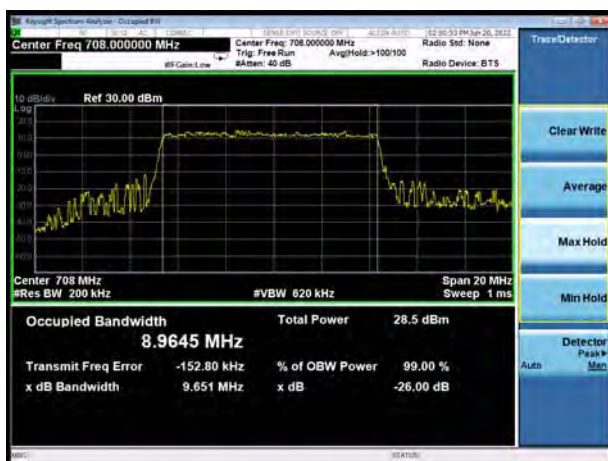
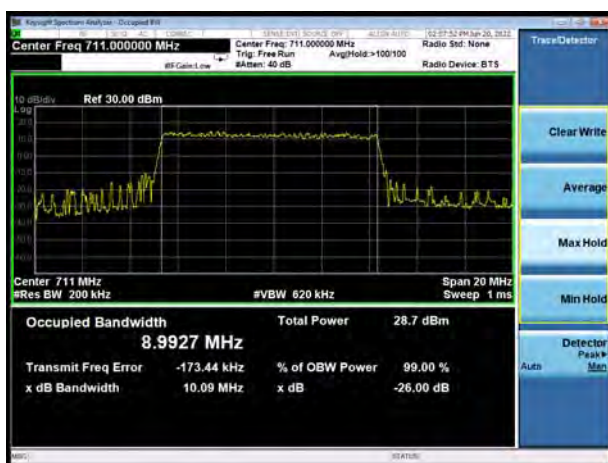


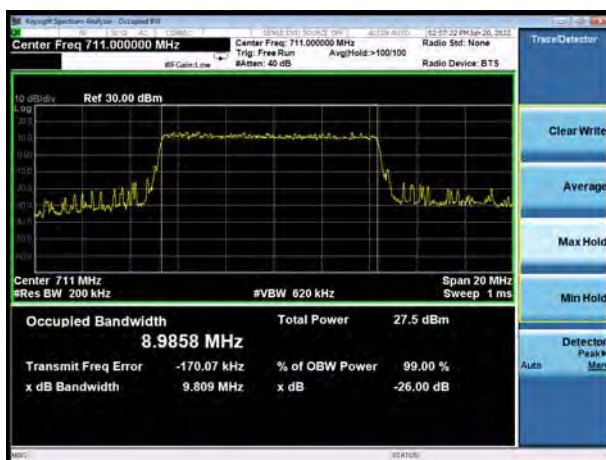
LTE band 28 Subset 2 64QAM 10MHz CH-High



LTE band 28 Subset 2 64QAM 15MHz CH-High



NR n28 Subset 1 BPSK 10MHz CH-Low,
100%RBNR n28 Subset 1 QPSK 10MHz CH-Low
100%RBNR n28 Subset 1 BPSK 10MHz CH-Middle
100%RBNR n28 Subset 1 QPSK 10MHz CH-Middle
100%RBNR n28 Subset 1 BPSK 10MHz CH-High
100%RBNR n28 Subset 1 QPSK 10MHz CH-High
100%RB

NR n28 Subset 1 16QAM 10MHz CH-Low
100%RBNR n28 Subset 1 64QAM 10MHz CH-Low
100%RBNR n28 Subset 1 16QAM 10MHz CH-Middle
100%RBNR n28 Subset 1 64QAM 10MHz CH-Middle
100%RBNR n28 Subset 1 V 10MHz CH-High
100%RBNR n28 Subset 1 64QAM 10MHz CH-High
100%RB

NR n28 Subset 1 256QAM 10MHz CH-Low 100%RB



NR n28 Subset 1 256QAM 10MHz CH-Middle 100%RB



NR n28 Subset 1 256QAM 10MHz CH-High 100%RB



NR n28 Subset 1 BPSK 10MHz CH-Low,
1RBNR n28 Subset 1 QPSK 10MHz CH-Low
1RBNR n28 Subset 1 BPSK 10MHz CH-Middle
1RBNR n28 Subset 1 QPSK 10MHz CH-Middle
1RBNR n28 Subset 1 BPSK 10MHz CH-High
1RBNR n28 Subset 1 QPSK 10MHz CH-High
1RB

NR n28 Subset 1 16QAM 10MHz CH-Low
1RBNR n28 Subset 1 64QAM 10MHz CH-Low
1RBNR n28 Subset 1 16QAM 10MHz CH-Middle
1RBNR n28 Subset 1 64QAM 10MHz CH-Middle
1RBNR n28 Subset 1 V 10MHz CH-High
1RBNR n28 Subset 1 64QAM 10MHz CH-High
1RB

NR n28 Subset 1 256QAM 10MHz CH-Low
1RB

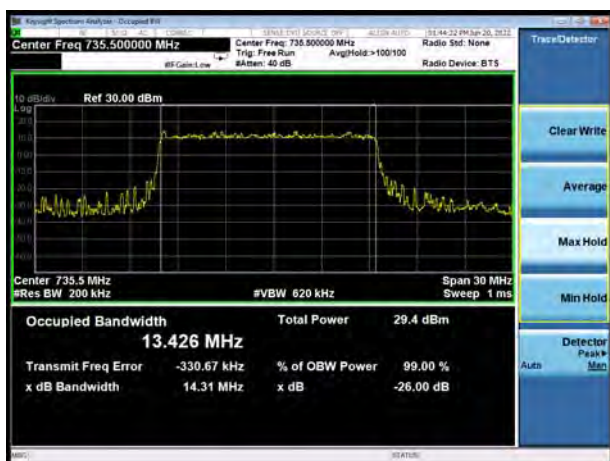
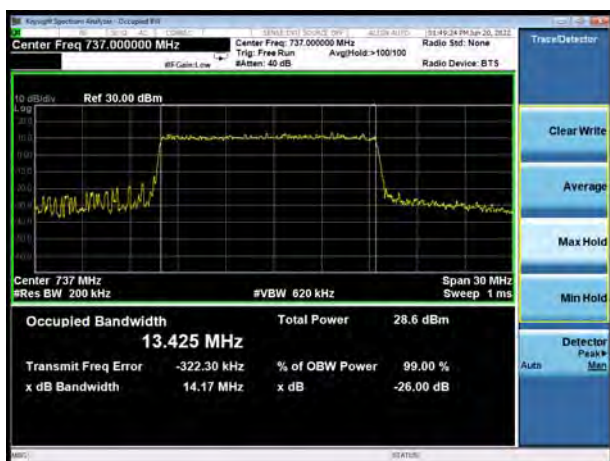
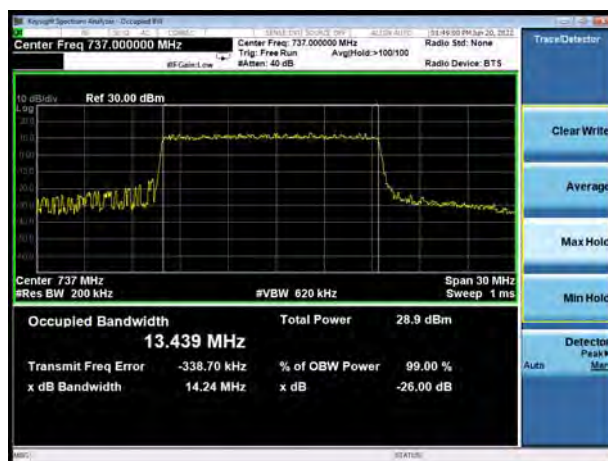
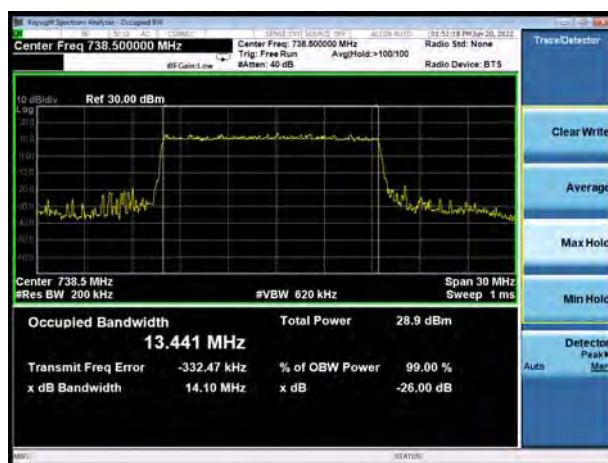


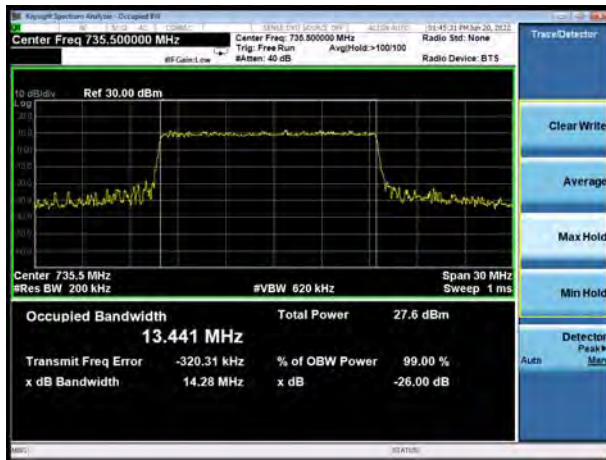
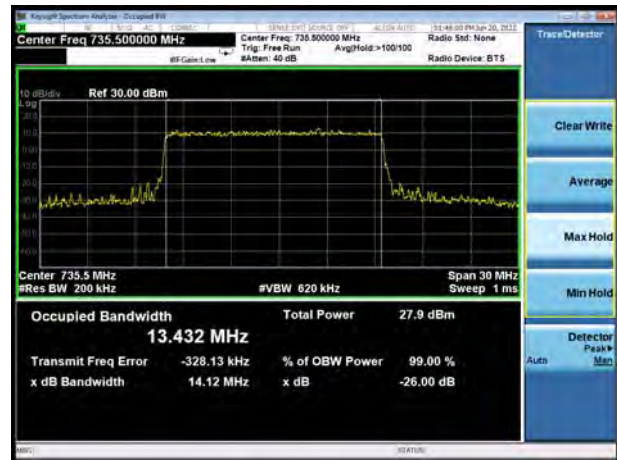
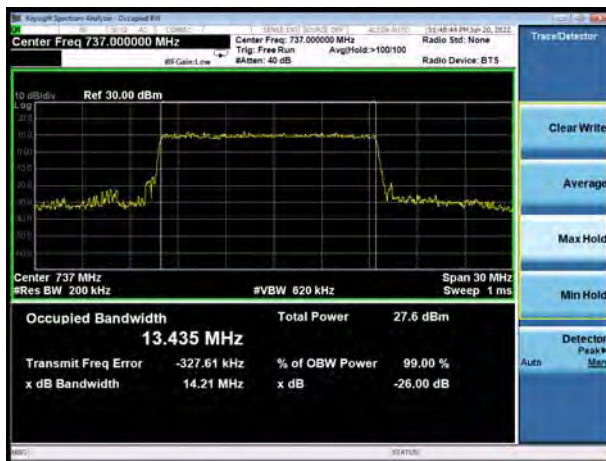
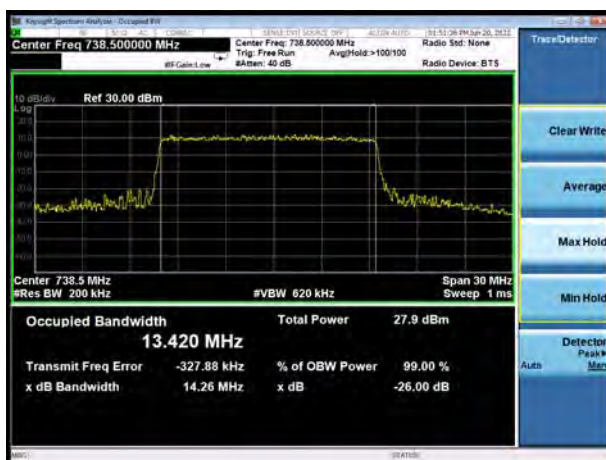
NR n28 Subset 1 256QAM 10MHz CH-Middle
1RB



NR n28 Subset 1 256QAM 10MHz CH-High
1RB



NR n28 Subset 2 BPSK 15MHz CH-Low,
100%RBNR n28 Subset 2 QPSK 15MHz CH-Low
100%RBNR n28 Subset 2 BPSK 15MHz CH-Middle
100%RBNR n28 Subset 2 QPSK 15MHz CH-Middle
100%RBNR n28 Subset 2 BPSK 15MHz CH-High
100%RBNR n28 Subset 2 QPSK 15MHz CH-High
100%RB

NR n28 Subset 2 16QAM 15MHz CH-Low
100%RBNR n28 Subset 2 64QAM 15MHz CH-Low
100%RBNR n28 Subset 2 16QAM 15MHz CH-Middle
100%RBNR n28 Subset 2 64QAM 15MHz CH-Middle
100%RBNR n28 Subset 2 V 15MHz CH-High
100%RBNR n28 Subset 2 64QAM 15MHz CH-High
100%RB

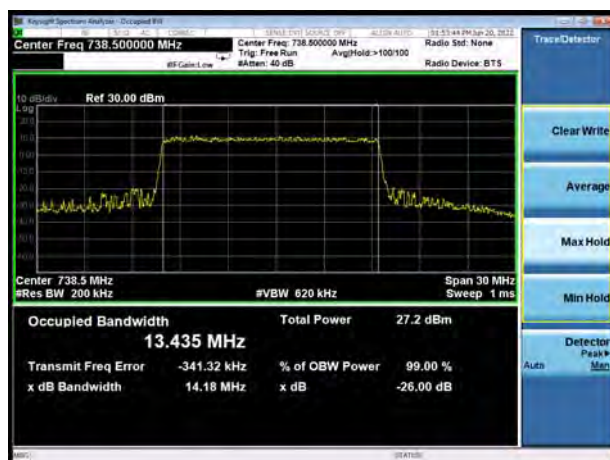
NR n28 Subset 2 256QAM 15MHz CH-Low
100%RB



NR n28 Subset 2 256QAM 15MHz CH-Middle
100%RB



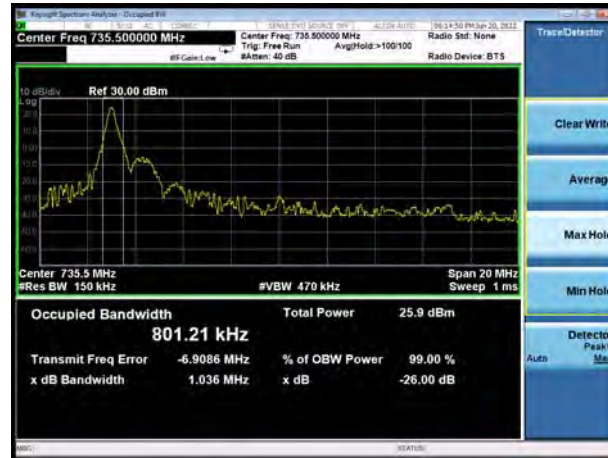
NR n28 Subset 2 256QAM 15MHz CH-High
100%RB



NR n28 Subset 2 BPSK 15MHz CH-Low,
1RBNR n28 Subset 2 QPSK 15MHz CH-Low
1RBNR n28 Subset 2 BPSK 15MHz CH-Middle
1RBNR n28 Subset 2 QPSK 15MHz CH-Middle
1RBNR n28 Subset 2 BPSK 15MHz CH-High
1RBNR n28 Subset 2 QPSK 15MHz CH-High
1RB

NR n28 Subset 2 16QAM 15MHz CH-Low
1RBNR n28 Subset 2 64QAM 15MHz CH-Low
1RBNR n28 Subset 2 16QAM 15MHz CH-Middle
1RBNR n28 Subset 2 64QAM 15MHz CH-Middle
1RBNR n28 Subset 2 16QAM 15MHz CH-High
1RBNR n28 Subset 2 64QAM 15MHz CH-High
1RB

NR n28 Subset 2 256QAM 15MHz CH-Low
1RB



NR n28 Subset 2 256QAM 15MHz CH-Middle
1RB



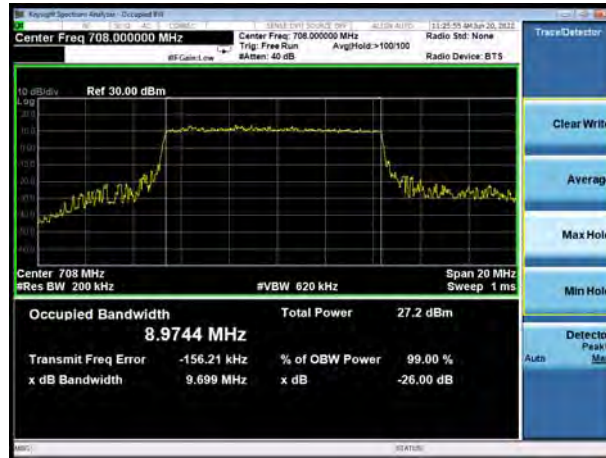
NR n28 Subset 2 256QAM 15MHz CH-High
1RB



DC_7A-n28A (Subset 1) BPSK 10MHz CH-Low,
100%RBDC_7A-n28A (Subset 1) QPSK 10MHz CH-Low
100%RBDC_7A-n28A (Subset 1) BPSK 10MHz
CH-Middle 100%RBDC_7A-n28A (Subset 1) QPSK 10MHz
CH-Middle 100%RBDC_7A-n28A (Subset 1) BPSK 10MHz CH-High
100%RBDC_7A-n28A (Subset 1) QPSK 10MHz CH-High
100%RB

DC_7A-n28A (Subset 1) 16QAM 10MHz CH-Low
100%RBDC_7A-n28A (Subset 1) 64QAM 10MHz CH-Low
100%RBDC_7A-n28A (Subset 1) 16QAM 10MHz CH-Middle
100%RBDC_7A-n28A (Subset 1) 64QAM 10MHz
CH-Middle 100%RBDC_7A-n28A (Subset 1) V 10MHz CH-High
100%RBDC_7A-n28A (Subset 1) 64QAM 10MHz
CH-High 100%RB

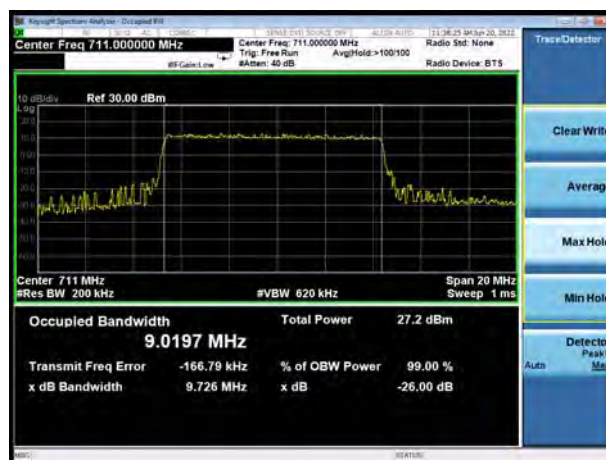
DC_7A-n28A (Subset 1) 256QAM 10MHz
CH-Low 100%RB



DC_7A-n28A (Subset 1) 256QAM 10MHz
CH-Middle 100%RB



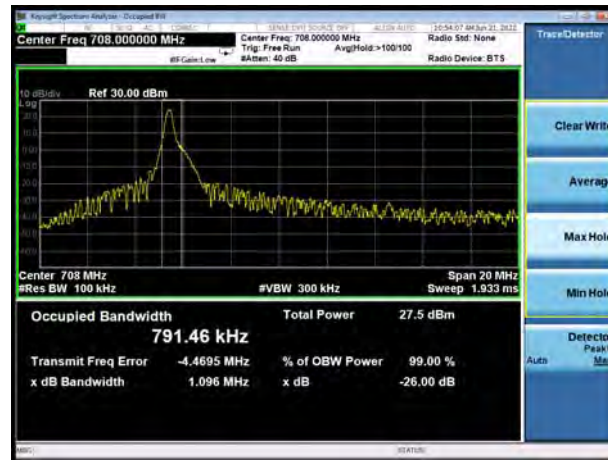
DC_7A-n28A (Subset 1) 256QAM 10MHz
CH-High 100%RB



DC_7A-n28A (Subset 1) BPSK 10MHz CH-Low,
1RBDC_7A-n28A (Subset 1) QPSK 10MHz CH-Low
1RBDC_7A-n28A (Subset 1) BPSK 10MHz
CH-Middle 1RBDC_7A-n28A (Subset 1) QPSK 10MHz
CH-Middle 1RBDC_7A-n28A (Subset 1) BPSK 10MHz CH-High
1RBDC_7A-n28A (Subset 1) QPSK 10MHz CH-High
1RB

DC_7A-n28A (Subset 1) 16QAM 10MHz CH-Low
1RBDC_7A-n28A (Subset 1) 64QAM 10MHz CH-Low
1RBDC_7A-n28A (Subset 1) 16QAM 10MHz
CH-Middle 1RBDC_7A-n28A (Subset 1) 64QAM 10MHz
CH-Middle 1RBDC_7A-n28A (Subset 1) V 10MHz CH-High
1RBDC_7A-n28A (Subset 1) 64QAM 10MHz
CH-High 1RB

DC_7A-n28A (Subset 1) 256QAM 10MHz
CH-Low 1RB

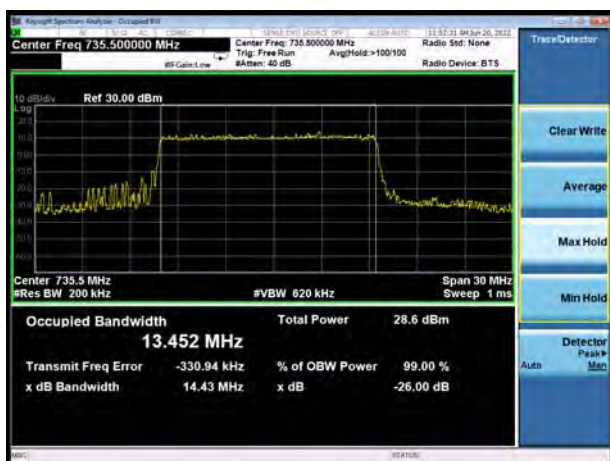
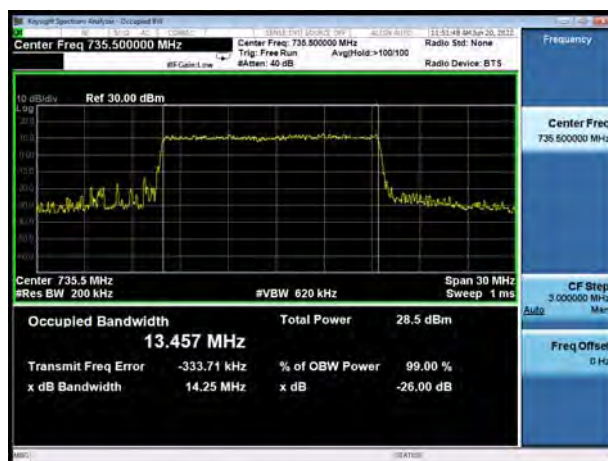
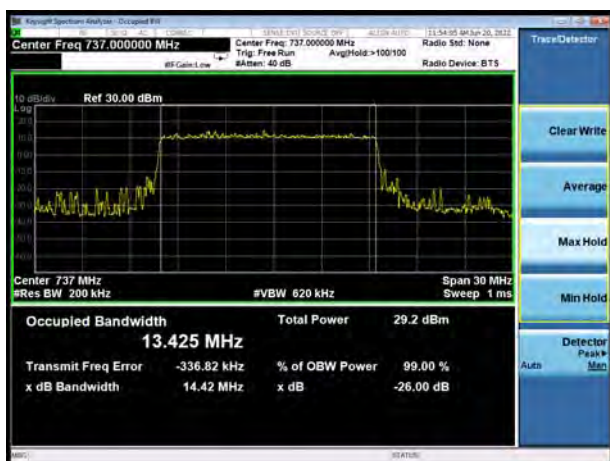
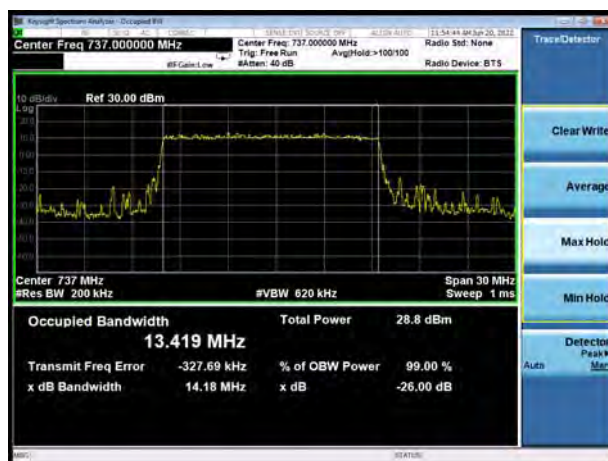


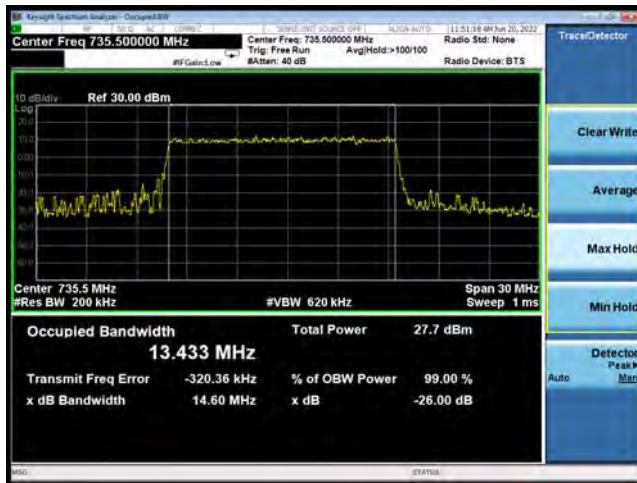
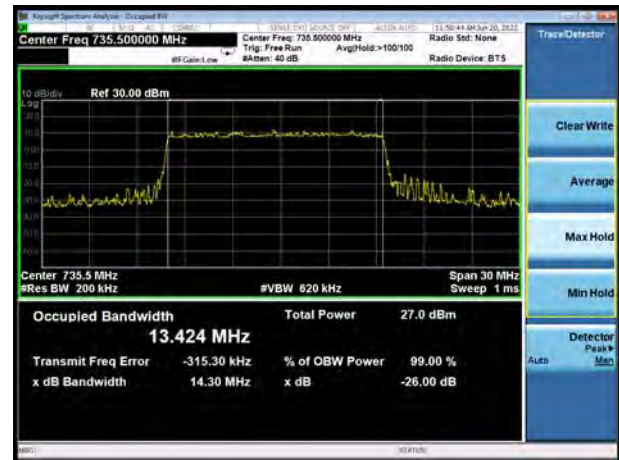
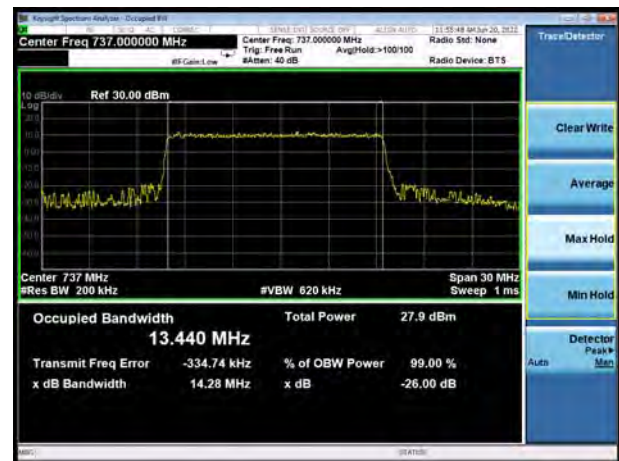
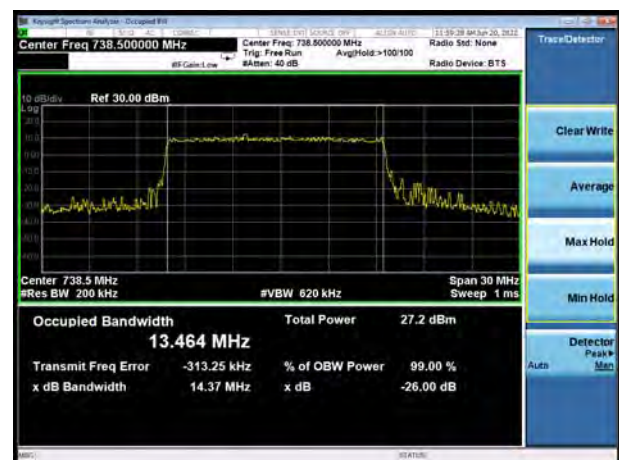
DC_7A-n28A (Subset 1) 256QAM 10MHz
CH-Middle 1RB



DC_7A-n28A (Subset 1) 256QAM 10MHz
CH-High 1RB



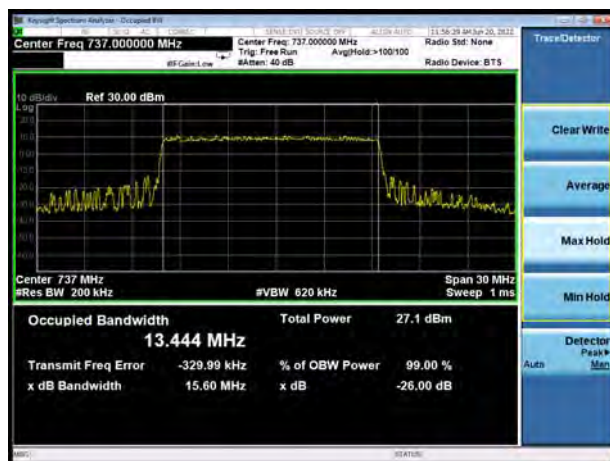
DC_7A-n28A (Subset 2) BPSK 15MHz CH-Low,
100%RBDC_7A-n28A (Subset 2) QPSK 15MHz CH-Low
100%RBDC_7A-n28A (Subset 2) BPSK 15MHz
CH-Middle 100%RBDC_7A-n28A (Subset 2) QPSK 15MHz
CH-Middle 100%RBDC_7A-n28A (Subset 2) BPSK 15MHz CH-High
100%RBDC_7A-n28A (Subset 2) QPSK 15MHz CH-High
100%RB

DC_7A-n28A (Subset 2) 16QAM 15MHz CH-Low
100%RBDC_7A-n28A (Subset 2) 64QAM 15MHz CH-Low
100%RBDC_7A-n28A (Subset 2) 16QAM 15MHz CH-Middle
100%RBDC_7A-n28A (Subset 2) 64QAM 15MHz
CH-Middle 100%RBDC_7A-n28A (Subset 2) V 15MHz CH-High
100%RBDC_7A-n28A (Subset 2) 64QAM 15MHz
CH-High 100%RB

DC_7A-n28A (Subset 2) 256QAM 15MHz
CH-Low 100%RB



DC_7A-n28A (Subset 2) 256QAM 15MHz
CH-Middle 100%RB



DC_7A-n28A (Subset 2) 256QAM 15MHz
CH-High 100%RB



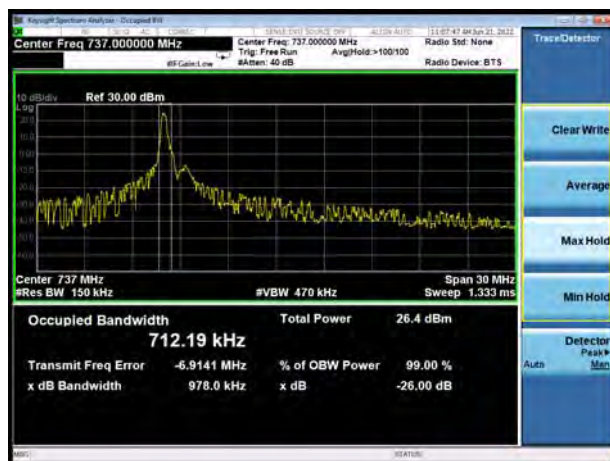
DC_7A-n28A (Subset 2) BPSK 15MHz CH-Low,
1RBDC_7A-n28A (Subset 2) QPSK 15MHz CH-Low
1RBDC_7A-n28A (Subset 2) BPSK 15MHz
CH-Middle 1RBDC_7A-n28A (Subset 2) QPSK 15MHz
CH-Middle 1RBDC_7A-n28A (Subset 2) BPSK 15MHz CH-High
1RBDC_7A-n28A (Subset 2) QPSK 15MHz CH-High
1RB

DC_7A-n28A (Subset 2) 16QAM 15MHz CH-Low
1RBDC_7A-n28A (Subset 2) 64QAM 15MHz CH-Low
1RBDC_7A-n28A (Subset 2) 16QAM 15MHz CH-Middle
1RBDC_7A-n28A (Subset 2) 64QAM 15MHz
CH-Middle 1RBDC_7A-n28A (Subset 2) V 15MHz CH-High
1RBDC_7A-n28A (Subset 2) 64QAM 15MHz
CH-High 1RB

DC_7A-n28A (Subset 2) 256QAM 15MHz CH-Low 1RB



DC_7A-n28A (Subset 2) 256QAM 15MHz CH-Middle 1RB



DC_7A-n28A (Subset 2) 256QAM 15MHz CH-High 1RB





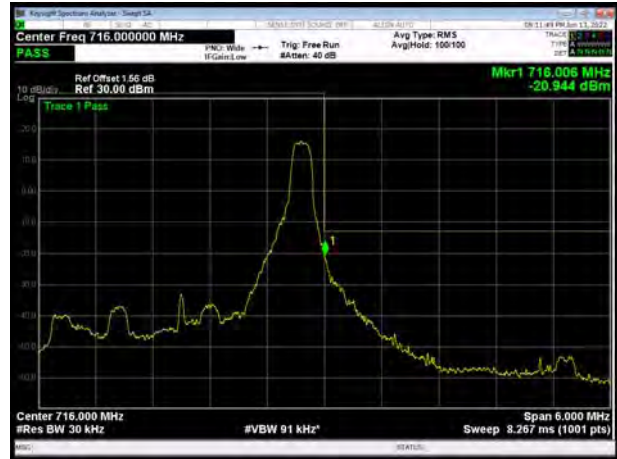
6.3 Band Edge Compliance

All the test traces in the plots shows the test results clearly.

LTE band 28 Subset 1 QPSK 3MHz CH-Low, 1
RB



LTE band 28 Subset 1 QPSK 3MHz CH-High, 1
RB



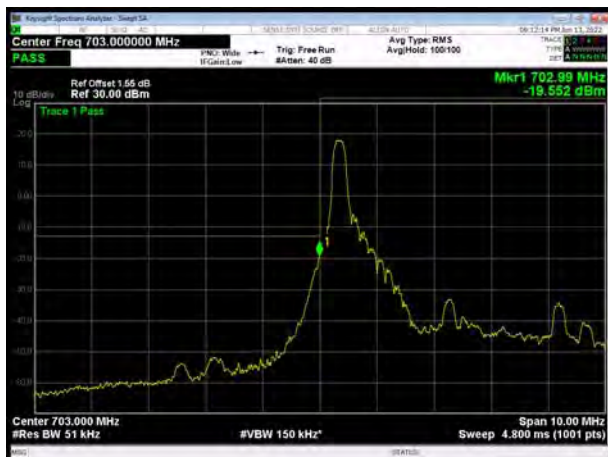
LTE band 28 Subset 1 QPSK 3MHz CH-Low,
100%RB



LTE band 28 Subset 1 QPSK 3MHz CH-High,
100%RB

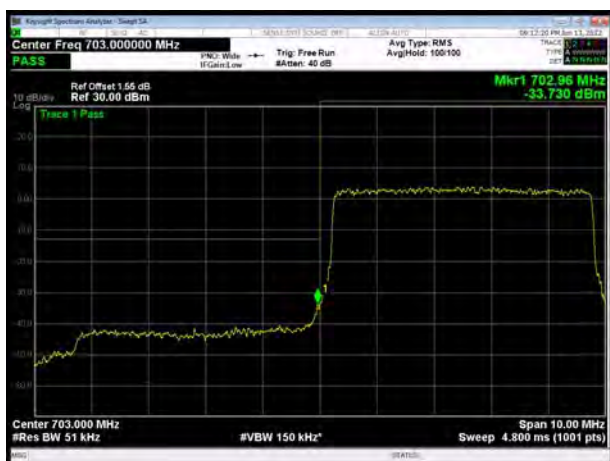
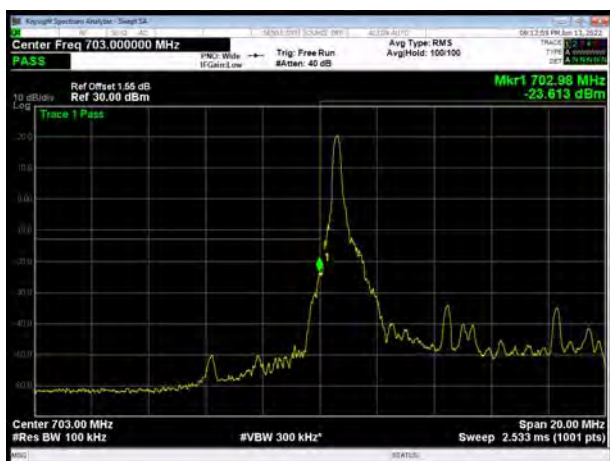
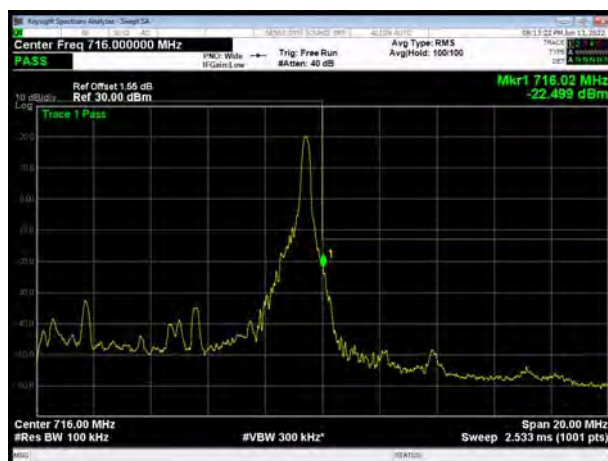
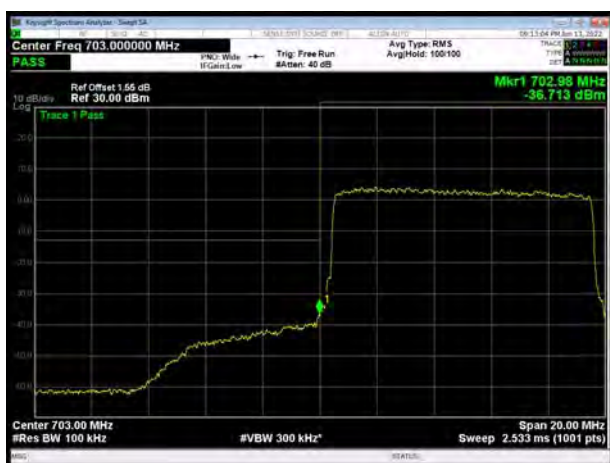
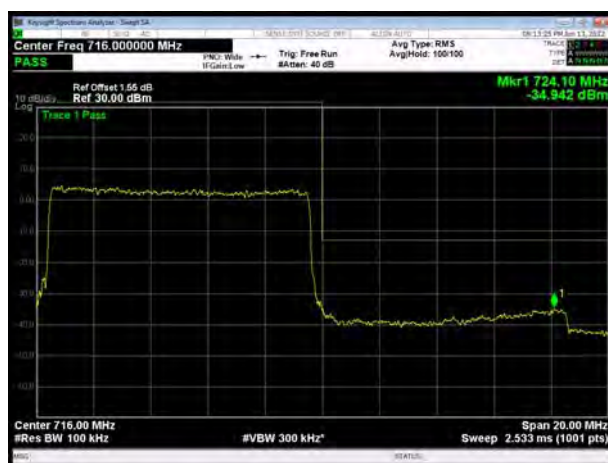


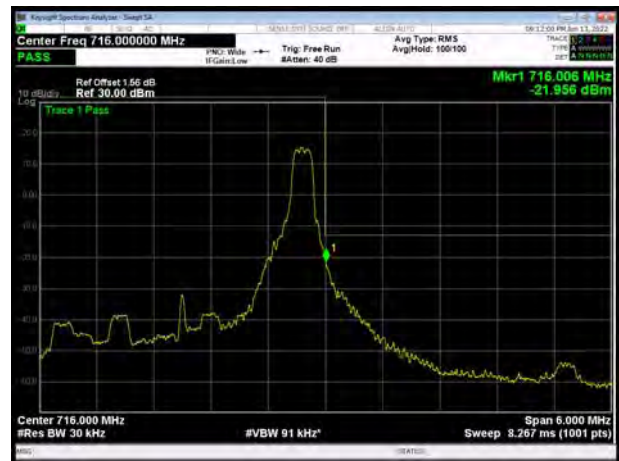
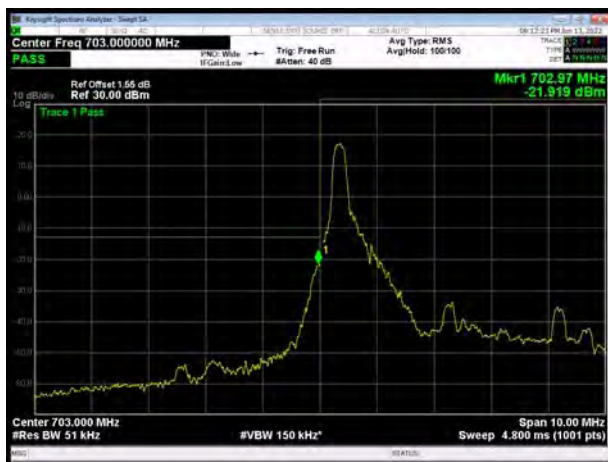
LTE band 28 Subset 1 QPSK 5MHz CH-Low, 1
RB

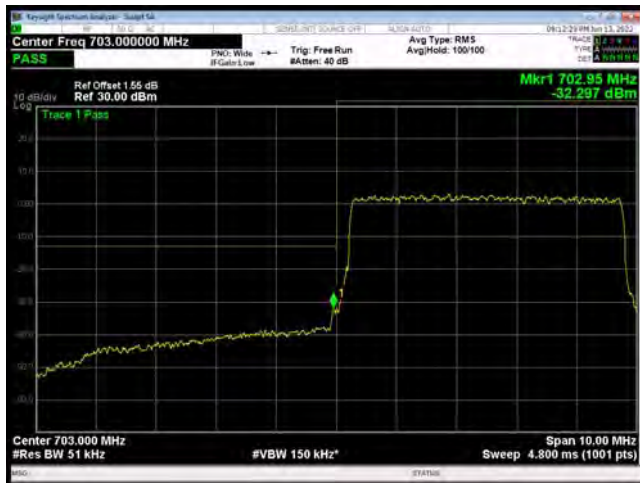
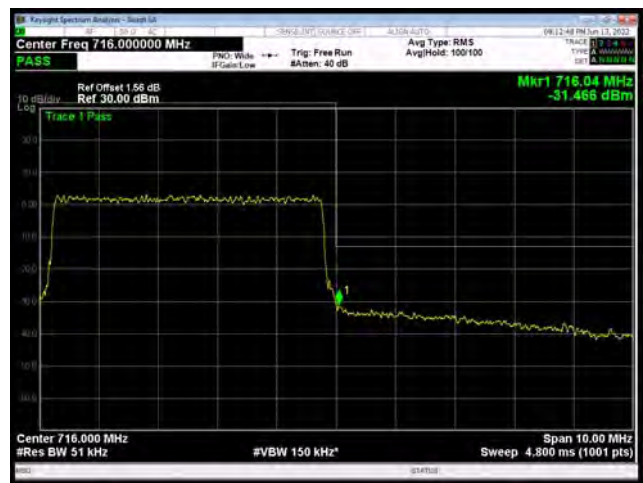
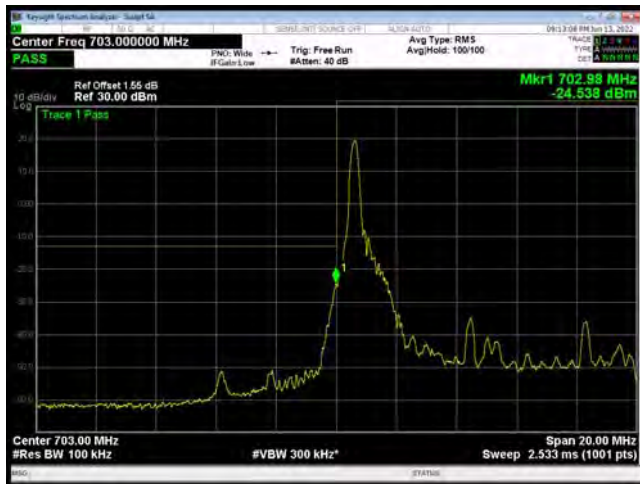
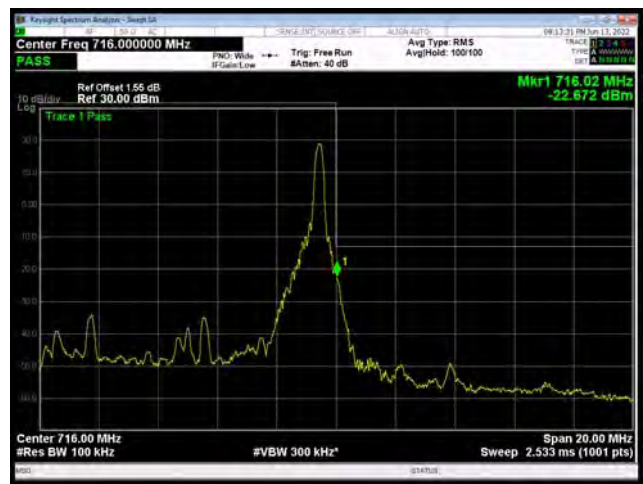
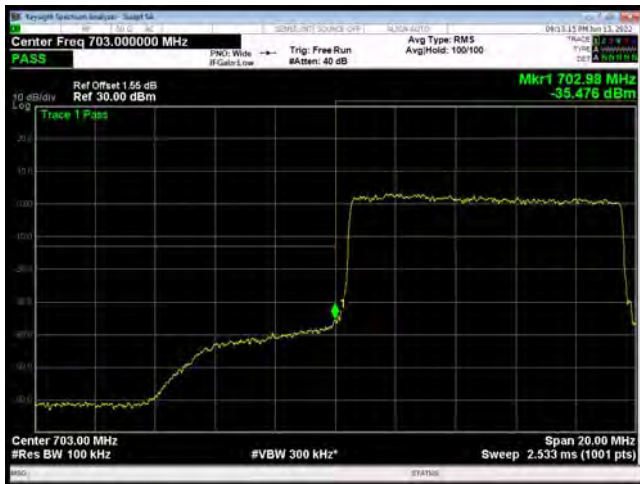


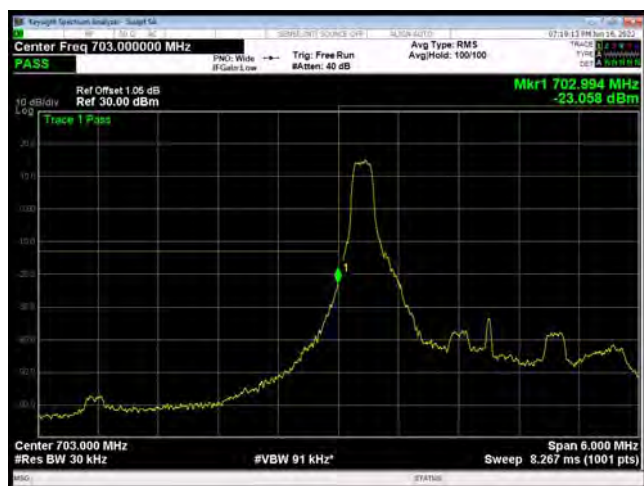
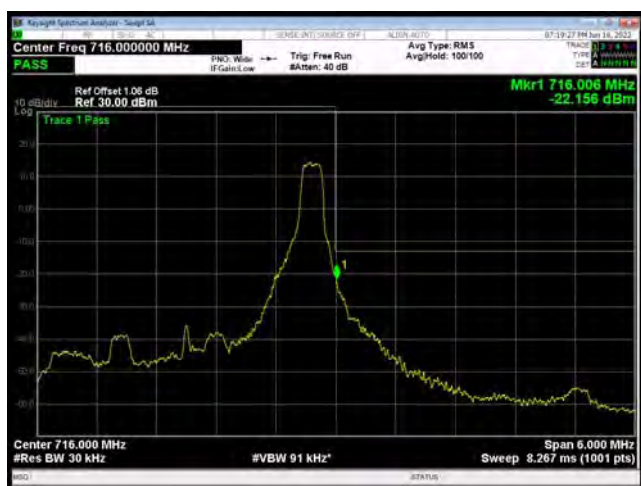
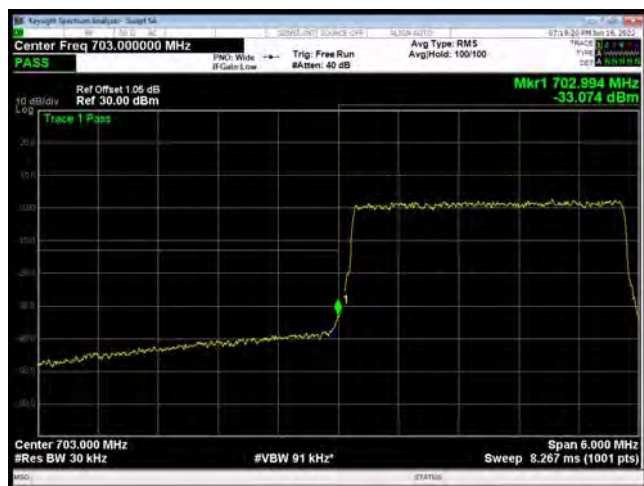
LTE band 28 Subset 1 QPSK 5MHz CH-High, 1
RB



LTE band 28 Subset 1 QPSK 5MHz CH-Low,
100%RBLTE band 28 Subset 1 QPSK 5MHz CH-High,
100%RBLTE band 28 Subset 1 QPSK 10MHz CH-Low, 1
RBLTE band 28 Subset 1 QPSK 10MHz CH-High, 1
RBLTE band 28 Subset 1 QPSK 10MHz CH-Low,
100%RBLTE band 28 Subset 1 QPSK 10MHz CH-High,
100%RB

LTE band 28 Subset 1 16QAM 3MHz CH-Low, 1
RBLTE band 28 Subset 1 16QAM 3MHz CH-High, 1
RBLTE band 28 Subset 1 16QAM 3MHz CH-Low,
100%RBLTE band 28 Subset 1 16QAM 3MHz CH-High,
100%RBLTE band 28 Subset 1 16QAM 5MHz CH-Low, 1
RBLTE band 28 Subset 1 16QAM 5MHz CH-High, 1
RB

LTE band 28 Subset 1 16QAM 5MHz CH-Low,
100%RBLTE band 28 Subset 1 16QAM 5MHz CH-High,
100%RBLTE band 28 Subset 1 16QAM 10MHz CH-Low, 1
RBLTE band 28 Subset 1 16QAM 10MHz CH-High, 1
RBLTE band 28 Subset 1 16QAM 10MHz CH-Low,
100%RBLTE band 28 Subset 1 16QAM 10MHz CH-High,
100%RB

LTE band 28 Subset 1 64QAM 3MHz CH-Low,
1 RBLTE band 28 Subset 1 64QAM 3MHz CH-High, 1
RBLTE band 28 Subset 1 64QAM 3MHz CH-Low,
100%RBLTE band 28 Subset 1 64QAM 3MHz CH-High,
100%RBLTE band 28 Subset 1 64QAM 5MHz CH-Low,
1 RBLTE band 28 Subset 1 64QAM 5MHz CH-High, 1
RB