



RF TEST REPORT

Applicant XCHENG TECH CO.,LIMITED

FCC ID 2AZ4F-D1

Product Smart Desktop Terminal

Brand Kobile;Kripto;Clip;Nextep;Ecline;SAT;Qian;Ghia;
CBX;Solux;Dejavoo;slimrate

Model D1

Report No. R2206A0595-R3V2

Issue Date August 23, 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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TABLE OF CONTENT

1	Test Laboratory.....	5
1.1	Notes of the Test Report.....	5
1.2.	Test facility.....	5
1.3	Testing Location.....	5
2	General Description of Equipment under Test.....	6
2.1	Applicant and Manufacturer Information.....	6
2.2	General information.....	6
3	Applied Standards.....	8
4	Test Configuration.....	9
5	Test Case.....	12
5.1	RF Power Output and Effective Isotropic Radiated Power.....	12
5.2	Occupied Bandwidth.....	14
5.3	Band Edge Compliance.....	15
5.4	Peak-to-Average Power Ratio (PAPR).....	17
5.5	Frequency Stability.....	18
5.6	Spurious Emissions at Antenna Terminals.....	19
5.7	Radiates Spurious Emission.....	21
6	Test Results.....	25
6.1	RF Power Output and Effective Isotropic Radiated Power.....	25
6.2	Occupied Bandwidth.....	61
6.3	Band Edge Compliance.....	89
6.4	Peak-to-Average Power Ratio (PAPR).....	122
6.5	Frequency Stability.....	128
6.6	Spurious Emissions at Antenna Terminals.....	138
6.7	Radiates Spurious Emission.....	150
7	Main Test Instruments.....	157
	ANNEX A: The EUT Appearance.....	158
	ANNEX B: Test Setup Photos.....	159



Version	Revision description	Issue Date
Rev.0	Initial issue of report.	August 16, 2022
Rev.1	Update information.	August 17, 2022
Rev.2	Update information.	August 23, 2022
Note: This revised report (Report No. R2206A0595-R3V2) supersedes and replaces the previously issued report (Report No. R2206A0595-R3V1). Please discard or destroy the previously issued report and dispose of it accordingly.		

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(d)(4) /27.50(h)(2) /27.50(a)(3)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	27.53(h) /27.53(m) /27.53(a)(4)	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(h) /27.53(m) /27.53(a)(4)	PASS
7	Radiates Spurious Emission	2.1053 /27.53(h) /27.53(m) /27.53(a)(4)	PASS
Date of Testing: June 28, 2022 ~July 19, 2022			
Date of Sample Received: June 28, 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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2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	XCHENG TECH CO.,LIMITED
Applicant address	ROOM 401F,Building 5,No.2000 LONG DONG Avenue,Pudong New District
Manufacturer	XCHENG TECH CO.,LIMITED
Manufacturer address	ROOM 401F,Building 5,No.2000 LONG DONG Avenue,Pudong New District

2.2 General information

EUT Description		
Model	D1	
IMEI	864084060007894	
Hardware Version	V1.0	
Software Version	V1.0	
Power Supply	Battery / AC adapter	
Antenna Type	Internal Antenna	
Antenna Gain	2.0dBi	
Test Mode(s)	WCDMA Band IV; LTE Band 4/7/38/40/41;	
Test Modulation	(WCDMA) BPSK, QPSK, 16QAM; (LTE)QPSK, 16QAM;	
HSDPA UE Category	7	
HSUPA UE Category	7	
LTE Category	4	
Maximum E.I.R.P./ E.R.P.	WCDMA Band IV:	24.41dBm
	LTE Band 4:	26.81dBm
	LTE Band 7:	25.56dBm
	LTE Band 38:	26.71dBm
	LTE Band 40 subset 1:	25.15dBm
		106.93mW/MHz
		199.20mW/5MHz
	LTE Band 40 subset 2:	24.70dBm
		129.66mW/MHz
		248.54mW/5MHz
	LTE Band 41:	26.69dBm
Rated Power Supply Voltage	7.2V	
Operating Voltage	6.9V ~ 8.4V	



RF Test Report		Report No.: R2206A0399-R3V2	
Operating Temperature	Lowest: -10℃ Highest: +50℃		
Testing Temperature	Lowest: -30℃ Highest: +50℃		
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)
	WCDMA Band IV	1710 ~ 1755	2110 ~ 2155
	LTE Band 4	1710 ~ 1755	2110 ~ 2155
	LTE Band 7	2500 ~ 2570	2620 ~ 2690
	LTE Band 38	2570 ~ 2620	2570 ~ 2620
	LTE Band 40 Subset 1	2305 ~ 2315	2305 ~ 2315
	LTE Band 40 Subset 2	2350 ~ 2360	2350 ~ 2360
	LTE Band 41	2535 ~ 2655	2535 ~ 2655
EUT Accessory			
Adapter	Manufacturer: Shenzhen Flypower Technology Co., LTD Model: FLY0222052501		
Button batteries	Manufacturer: SHENZHEN M&LAK INDUSTRY CO.,LTD Model: CR2032		
RJ45&DB9_wire	Manufacturer: Shenzhen Flypower Technology Co., LTD Model: C393-210302-002		
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.			



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) 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 WCDMA/LTE 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:

Test items	Modes/Modulation
	WCDMA Band IV
RF Power Output and Effective Isotropic Radiated Power	RMC HSDPA/HSUPA
Occupied Bandwidth	RMC
Band Edge Compliance	RMC
Peak-to-Average Power Ratio	RMC
Frequency Stability	RMC
Spurious Emissions at Antenna Terminals	RMC
Radiates Spurious Emission	RMC



Test modes are chosen to be reported as the worst case configuration below for LTE Band 4/7/38/40 subset 1/ subset 2/41:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	LTE 4	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 40 subset 1	-	-	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 40 subset 2	-	-	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 41	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 40 subset 1	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 40 subset 2	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 41	O	O	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 4	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 7	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 38	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 40 subset 1	-	-	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 40 subset 2	-	-	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 41	O	O	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 40 subset 1	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 40 subset 2	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 41	O	O	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 4	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 7	-	-	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 38	-	-	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 40 subset 1	-	-	O	O	-	-	O	O	O	-	-	-	O	-
	LTE 40 subset 2	-	-	O	O	-	-	O	O	O	-	-	-	O	-
	LTE 41	O	O	O	O	O	O	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	LTE 4	O	O	O	O	O	O	-	-	O	-	-	O	O	O
	LTE 7	-	-	O	O	O	O	-	-	O	-	-	O	O	O
	LTE 38	-	-	O	O	O	O	-	-	O	-	-	O	O	O
	LTE 40 subset 1	-	-	O	O	-	-	-	-	O	-	-	O	O	O
	LTE 40 subset 2	-	-	O	O	-	-	-	-	O	-	-	O	O	O
	LTE 41	O	O	O	O	O	O	-	-	O	-	-	O	O	O
Radiates Spurious	LTE 4	O	-	O	-	-	O	O	-	O	-	-	-	O	-



Emission	LTE 7	-	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 38	-	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 40 subset 1	-	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 40 subset 2	-	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 41	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.														

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.

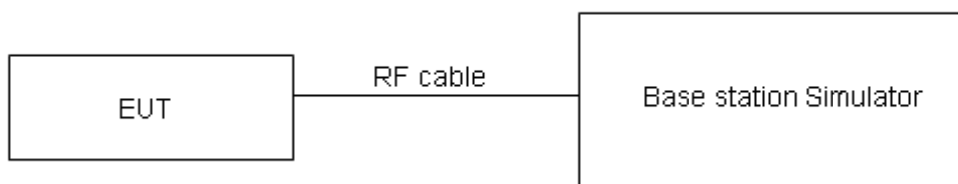
ERP can then be calculated as follows:

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

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

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

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

Rule Part 27.50(d) (4) specifies that “Fixed, mobile and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP”

Rule Part 27.50(h) (2) specifies that “Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.”

Rule Part 27.50(a) (3) specifies that “(i) For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1

megahertz of authorized bandwidth. ”

Rule Part 27.50(k) (3) Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

Rule Part 27.50(j) (3) Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

Part 27.50(a)(3)Limit	$\leq$ 250 mW (24 dBm)
Part 27.50(d)(4)Limit	$\leq$ 1 W (30 dBm)
Part 27.50(h)(2) Limit	$\leq$ 2 W (33 dBm)

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

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

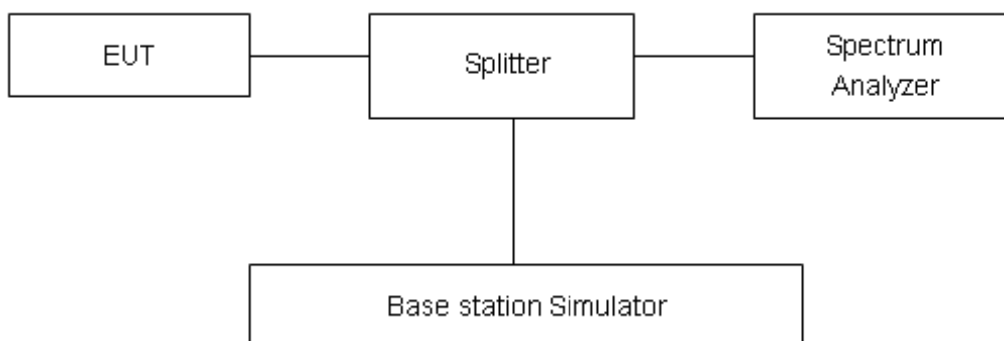
Method of Measurement

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.

For LTE Band 7/38 set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.

For LTE Band 41 the middle channel, high channel set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used; Low channel set RBW $\geq 2\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used. RBW is set to $\geq 1\%$ EBW, VBW is set to 3x RBW.

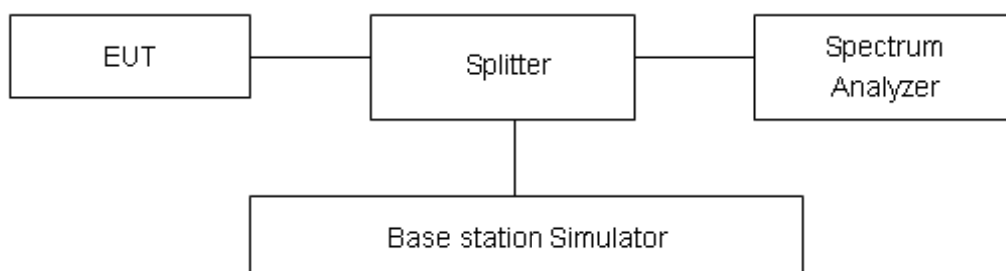
on spectrum analyzer.

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(h) specifies that “for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB”

Rule Part 27.53(m) (4) specifies that “for BRS and EBS stations. For mobile digital stations, the



attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(4) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Example:

The limit line is derived from $43 + 10 \log (P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10 \log (P)] \text{ (dB)}$$

$$= [30 + 10 \log (P)] \text{ (dBm)} - [43 + 10 \log (P)] \text{ (dB)} = -13 \text{ dBm.}$$

Rule Part 27.53(a) specifies that "By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz; "

Measurement Uncertainty

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

Test Results

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

5.4 Peak-to-Average Power Ratio (PAPR)

Ambient condition

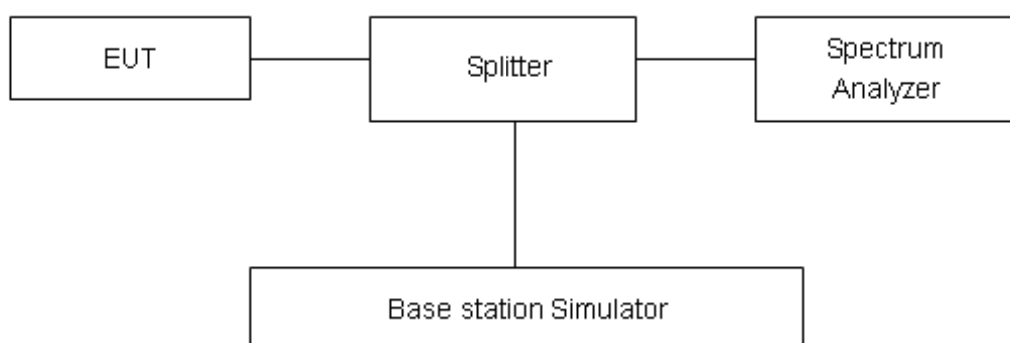
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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.

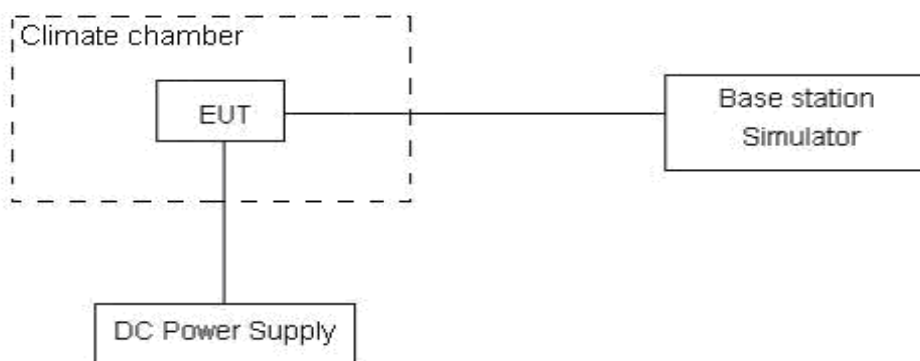
Frequency Stability (Voltage Variation)

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 6.9 V and 8.4 V, with a nominal voltage of 7.2V.

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)

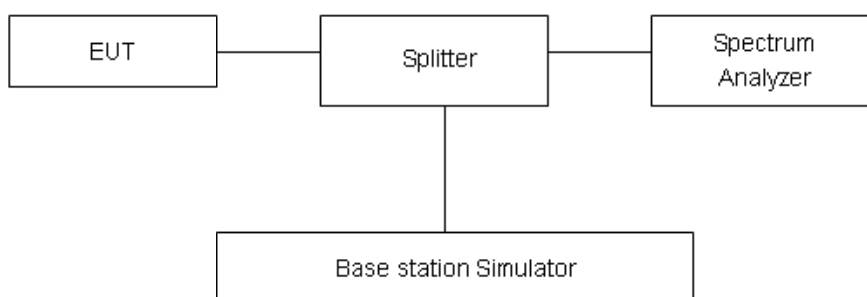
RBW is set to 100 kHz (30MHz~1000 MHz)

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(h) specifies that “for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB..”

Rule Part 27.53(m) $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(4) of this section.

Rule Part 27.53(a) (4) specifies that “ (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;



(iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.”

Part 27.53(h)/(g) Limit	-13 dBm
Part 27.53(a) Limit	-40 dBm
Part 27.53(m) Limit	-25 dBm

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:

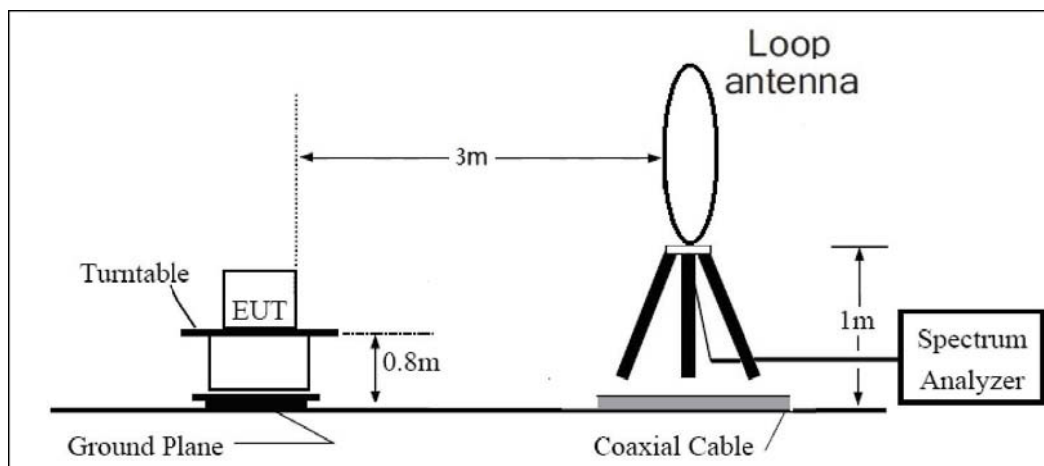
$$\text{Power(EIRP)} = \text{PMea} - \text{PAG} - \text{Pcl} + \text{Ga}$$
The measurement results are amend as described below:

$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
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, $\text{ERP} = \text{EIRP} - 2.15\text{dB}$.

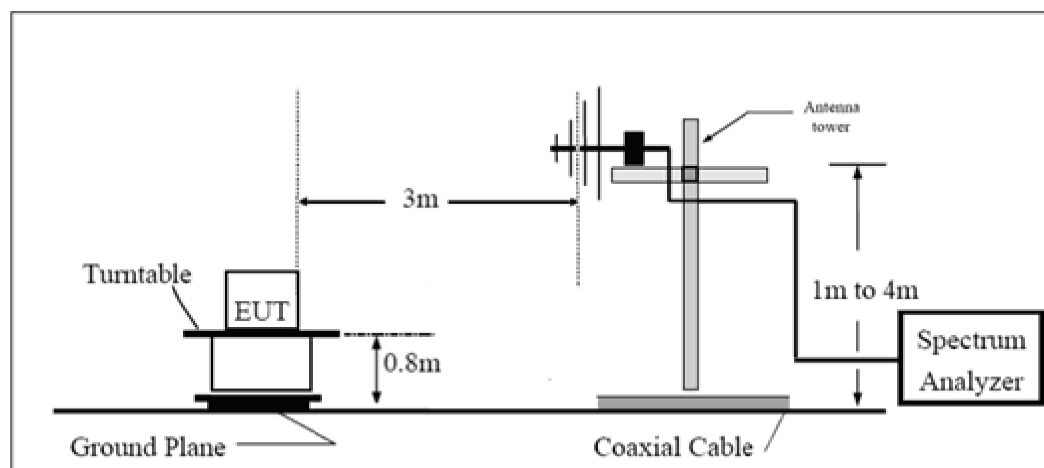
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

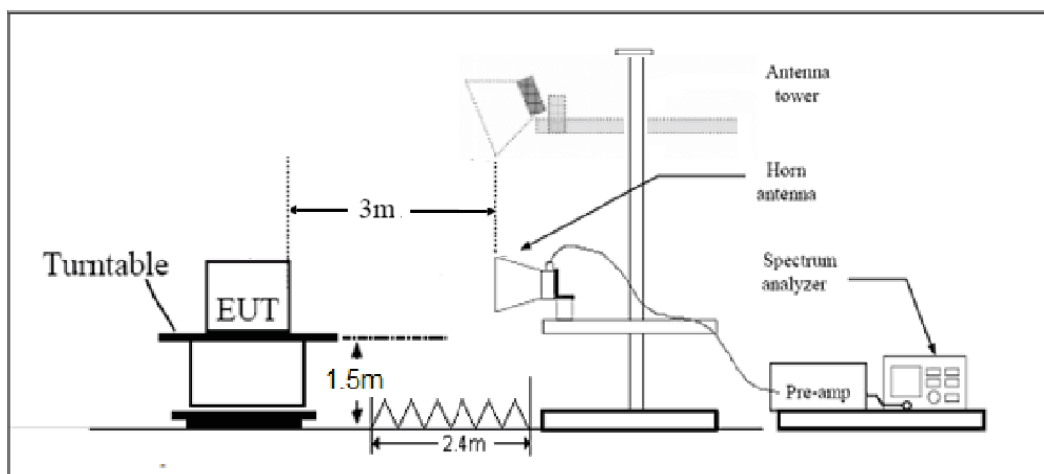
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

**Limits**

Rule Part 27.53(h) specifies that “for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.”

Rule Part 27.53(m) $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(4) of this section.

Rule Part 27.53(a) (4) specifies that “(i) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz; (ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz; (iii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.”

Part 27.53(h) Limit		-13 dBm
Part 27.53(a) Limit	Limit out of the band 2288-2360 MHz	-40 dBm
	2288-2292 MHz	-37 dBm
	2292-2296 MHz	-31 dBm
	2296-2300 MHz	-25 dBm
	2300-2305 MHz	-13 dBm
	2305-2315 MHz	NA
	2315-2320 MHz	-13 dBm
	2320-2324 MHz	-25 dBm
	2324-2328 MHz	-31 dBm
	2328-2337 MHz	-37 dBm
	2337--2341 MHz	-31 dBm
	2341-2345 MHz	-25 dBm
	2345-2350 MHz	-13 dBm
	2350-2360 MHz	NA
Part 27.53(m) Limit		-25 dBm



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

WCDMA Band IV		Maximum Output Power (dBm)			EIRP (dBm)		
		Channel 1312	Channel 1413	Channel 1513	Channel 1312	Channel 1413	Channel 1513
		1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)	1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)
RMC		22.41	22.25	22.12	24.41	24.25	24.12
HSDPA	Sub - Test 1	21.87	21.67	21.56	23.87	23.67	23.56
	Sub - Test 2	21.86	21.69	21.53	23.86	23.69	23.53
	Sub - Test 3	21.33	21.19	21.05	23.33	23.19	23.05
	Sub - Test 4	21.34	21.20	21.03	23.34	23.20	23.03
HSUPA	Sub - Test 1	21.83	21.66	21.51	23.83	23.66	23.51
	Sub - Test 2	20.82	20.64	20.50	22.82	22.64	22.50
	Sub - Test 3	21.29	21.12	20.99	23.29	23.12	22.99
	Sub - Test 4	20.75	20.61	20.47	22.75	22.61	22.47
	Sub - Test 5	21.76	21.59	21.45	23.76	23.59	23.45



LTE Band 4						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
1.4	19957	1	#0	QPSK	24.16	26.16
1.4	19957	1	#Mid	QPSK	24.49	26.49
1.4	19957	1	#Max	QPSK	24.08	26.08
1.4	19957	3	#0	QPSK	24.16	26.16
1.4	19957	3	#Mid	QPSK	24.09	26.09
1.4	19957	3	#Max	QPSK	24.17	26.17
1.4	19957	6	#0	QPSK	23.23	25.23
1.4	19957	1	#0	QAM16	22.97	24.97
1.4	19957	1	#Mid	QAM16	23.25	25.25
1.4	19957	1	#Max	QAM16	23.04	25.04
1.4	19957	3	#0	QAM16	23.23	25.23
1.4	19957	3	#Mid	QAM16	23.23	25.23
1.4	19957	3	#Max	QAM16	23.19	25.19
1.4	19957	6	#0	QAM16	22.20	24.20
1.4	20175	1	#0	QPSK	23.82	25.82
1.4	20175	1	#Mid	QPSK	24.08	26.08
1.4	20175	1	#Max	QPSK	23.95	25.95
1.4	20175	3	#0	QPSK	24.00	26.00
1.4	20175	3	#Mid	QPSK	23.98	25.98
1.4	20175	3	#Max	QPSK	24.04	26.04
1.4	20175	6	#0	QPSK	23.06	25.06
1.4	20175	1	#0	QAM16	22.90	24.90
1.4	20175	1	#Mid	QAM16	23.04	25.04
1.4	20175	1	#Max	QAM16	22.92	24.92
1.4	20175	3	#0	QAM16	22.78	24.78
1.4	20175	3	#Mid	QAM16	22.88	24.88
1.4	20175	3	#Max	QAM16	22.89	24.89
1.4	20175	6	#0	QAM16	21.95	23.95
1.4	20393	1	#0	QPSK	23.77	25.77
1.4	20393	1	#Mid	QPSK	24.07	26.07
1.4	20393	1	#Max	QPSK	23.74	25.74
1.4	20393	3	#0	QPSK	23.84	25.84
1.4	20393	3	#Mid	QPSK	23.84	25.84
1.4	20393	3	#Max	QPSK	23.83	25.83
1.4	20393	6	#0	QPSK	22.76	24.76
1.4	20393	1	#0	QAM16	22.87	24.87
1.4	20393	1	#Mid	QAM16	22.89	24.89
1.4	20393	1	#Max	QAM16	22.91	24.91
1.4	20393	3	#0	QAM16	22.69	24.69



1.4	20393	3	#Mid	QAM16	22.71	24.71
1.4	20393	3	#Max	QAM16	22.70	24.70
1.4	20393	6	#0	QAM16	21.73	23.73
3	19965	1	#0	QPSK	24.16	26.16
3	19965	1	#Mid	QPSK	24.21	26.21
3	19965	1	#Max	QPSK	24.26	26.26
3	19965	8	#0	QPSK	23.26	25.26
3	19965	8	#Mid	QPSK	23.29	25.29
3	19965	8	#Max	QPSK	23.18	25.18
3	19965	15	#0	QPSK	23.16	25.16
3	19965	1	#0	QAM16	23.25	25.25
3	19965	1	#Mid	QAM16	23.34	25.34
3	19965	1	#Max	QAM16	23.40	25.40
3	19965	8	#0	QAM16	22.19	24.19
3	19965	8	#Mid	QAM16	22.23	24.23
3	19965	8	#Max	QAM16	22.18	24.18
3	19965	15	#0	QAM16	22.06	24.06
3	20175	1	#0	QPSK	23.99	25.99
3	20175	1	#Mid	QPSK	23.98	25.98
3	20175	1	#Max	QPSK	24.03	26.03
3	20175	8	#0	QPSK	22.97	24.97
3	20175	8	#Mid	QPSK	23.10	25.10
3	20175	8	#Max	QPSK	23.05	25.05
3	20175	15	#0	QPSK	22.98	24.98
3	20175	1	#0	QAM16	23.11	25.11
3	20175	1	#Mid	QAM16	23.10	25.10
3	20175	1	#Max	QAM16	23.14	25.14
3	20175	8	#0	QAM16	22.02	24.02
3	20175	8	#Mid	QAM16	22.00	24.00
3	20175	8	#Max	QAM16	21.96	23.96
3	20175	15	#0	QAM16	21.84	23.84
3	20385	1	#0	QPSK	23.77	25.77
3	20385	1	#Mid	QPSK	23.70	25.70
3	20385	1	#Max	QPSK	23.70	25.70
3	20385	8	#0	QPSK	22.88	24.88
3	20385	8	#Mid	QPSK	22.79	24.79
3	20385	8	#Max	QPSK	22.89	24.89
3	20385	15	#0	QPSK	22.76	24.76
3	20385	1	#0	QAM16	22.82	24.82
3	20385	1	#Mid	QAM16	22.71	24.71
3	20385	1	#Max	QAM16	22.81	24.81
3	20385	8	#0	QAM16	21.79	23.79
3	20385	8	#Mid	QAM16	21.78	23.78



3	20385	8	#Max	QAM16	21.89	23.89
3	20385	15	#0	QAM16	21.71	23.71
5	19975	1	#0	QPSK	24.12	26.12
5	19975	1	#Mid	QPSK	24.27	26.27
5	19975	1	#Max	QPSK	24.16	26.16
5	19975	12	#0	QPSK	23.27	25.27
5	19975	12	#Mid	QPSK	23.29	25.29
5	19975	12	#Max	QPSK	23.14	25.14
5	19975	25	#0	QPSK	23.22	25.22
5	19975	1	#0	QAM16	23.14	25.14
5	19975	1	#Mid	QAM16	23.27	25.27
5	19975	1	#Max	QAM16	23.18	25.18
5	19975	12	#0	QAM16	22.26	24.26
5	19975	12	#Mid	QAM16	22.18	24.18
5	19975	12	#Max	QAM16	22.14	24.14
5	19975	25	#0	QAM16	22.24	24.24
5	20175	1	#0	QPSK	23.98	25.98
5	20175	1	#Mid	QPSK	24.01	26.01
5	20175	1	#Max	QPSK	23.88	25.88
5	20175	12	#0	QPSK	22.97	24.97
5	20175	12	#Mid	QPSK	23.02	25.02
5	20175	12	#Max	QPSK	22.93	24.93
5	20175	25	#0	QPSK	22.94	24.94
5	20175	1	#0	QAM16	23.29	25.29
5	20175	1	#Mid	QAM16	23.34	25.34
5	20175	1	#Max	QAM16	23.21	25.21
5	20175	12	#0	QAM16	21.92	23.92
5	20175	12	#Mid	QAM16	21.92	23.92
5	20175	12	#Max	QAM16	22.00	24.00
5	20175	25	#0	QAM16	21.87	23.87
5	20375	1	#0	QPSK	23.76	25.76
5	20375	1	#Mid	QPSK	23.87	25.87
5	20375	1	#Max	QPSK	23.73	25.73
5	20375	12	#0	QPSK	22.79	24.79
5	20375	12	#Mid	QPSK	22.87	24.87
5	20375	12	#Max	QPSK	22.69	24.69
5	20375	25	#0	QPSK	22.82	24.82
5	20375	1	#0	QAM16	23.14	25.14
5	20375	1	#Mid	QAM16	23.31	25.31
5	20375	1	#Max	QAM16	23.17	25.17
5	20375	12	#0	QAM16	21.74	23.74
5	20375	12	#Mid	QAM16	21.79	23.79
5	20375	12	#Max	QAM16	21.61	23.61



5	20375	25	#0	QAM16	21.77	23.77
10	20000	1	#0	QPSK	24.14	26.14
10	20000	1	#Mid	QPSK	24.34	26.34
10	20000	1	#Max	QPSK	24.20	26.20
10	20000	25	#0	QPSK	23.29	25.29
10	20000	25	#Mid	QPSK	23.19	25.19
10	20000	25	#Max	QPSK	22.99	24.99
10	20000	50	#0	QPSK	23.14	25.14
10	20000	1	#0	QAM16	23.23	25.23
10	20000	1	#Mid	QAM16	23.38	25.38
10	20000	1	#Max	QAM16	23.36	25.36
10	20000	25	#0	QAM16	22.13	24.13
10	20000	25	#Mid	QAM16	22.12	24.12
10	20000	25	#Max	QAM16	22.28	24.28
10	20000	50	#0	QAM16	22.20	24.20
10	20175	1	#0	QPSK	23.95	25.95
10	20175	1	#Mid	QPSK	24.19	26.19
10	20175	1	#Max	QPSK	23.90	25.90
10	20175	25	#0	QPSK	22.95	24.95
10	20175	25	#Mid	QPSK	22.97	24.97
10	20175	25	#Max	QPSK	22.95	24.95
10	20175	50	#0	QPSK	22.91	24.91
10	20175	1	#0	QAM16	23.11	25.11
10	20175	1	#Mid	QAM16	23.06	25.06
10	20175	1	#Max	QAM16	23.01	25.01
10	20175	25	#0	QAM16	21.90	23.90
10	20175	25	#Mid	QAM16	22.02	24.02
10	20175	25	#Max	QAM16	22.05	24.05
10	20175	50	#0	QAM16	21.93	23.93
10	20350	1	#0	QPSK	23.82	25.82
10	20350	1	#Mid	QPSK	23.73	25.73
10	20350	1	#Max	QPSK	23.77	25.77
10	20350	25	#0	QPSK	22.93	24.93
10	20350	25	#Mid	QPSK	22.95	24.95
10	20350	25	#Max	QPSK	22.76	24.76
10	20350	50	#0	QPSK	22.85	24.85
10	20350	1	#0	QAM16	22.75	24.75
10	20350	1	#Mid	QAM16	22.94	24.94
10	20350	1	#Max	QAM16	22.76	24.76
10	20350	25	#0	QAM16	21.85	23.85
10	20350	25	#Mid	QAM16	21.84	23.84
10	20350	25	#Max	QAM16	21.79	23.79
10	20350	50	#0	QAM16	21.66	23.66



15	20025	1	#0	QPSK	24.12	26.12
15	20025	1	#Mid	QPSK	24.30	26.30
15	20025	1	#Max	QPSK	24.11	26.11
15	20025	36	#0	QPSK	23.20	25.20
15	20025	36	#Mid	QPSK	23.23	25.23
15	20025	36	#Max	QPSK	23.29	25.29
15	20025	75	#0	QPSK	23.27	25.27
15	20025	1	#0	QAM16	22.90	24.90
15	20025	1	#Mid	QAM16	22.99	24.99
15	20025	1	#Max	QAM16	22.89	24.89
15	20025	36	#0	QAM16	22.18	24.18
15	20025	36	#Mid	QAM16	22.22	24.22
15	20025	36	#Max	QAM16	22.30	24.30
15	20025	75	#0	QAM16	22.36	24.36
15	20175	1	#0	QPSK	23.96	25.96
15	20175	1	#Mid	QPSK	23.96	25.96
15	20175	1	#Max	QPSK	23.83	25.83
15	20175	36	#0	QPSK	23.06	25.06
15	20175	36	#Mid	QPSK	23.04	25.04
15	20175	36	#Max	QPSK	23.03	25.03
15	20175	75	#0	QPSK	23.06	25.06
15	20175	1	#0	QAM16	23.04	25.04
15	20175	1	#Mid	QAM16	23.13	25.13
15	20175	1	#Max	QAM16	22.87	24.87
15	20175	36	#0	QAM16	22.09	24.09
15	20175	36	#Mid	QAM16	22.10	24.10
15	20175	36	#Max	QAM16	22.09	24.09
15	20175	75	#0	QAM16	22.05	24.05
15	20325	1	#0	QPSK	23.80	25.80
15	20325	1	#Mid	QPSK	23.76	25.76
15	20325	1	#Max	QPSK	23.70	25.70
15	20325	36	#0	QPSK	22.95	24.95
15	20325	36	#Mid	QPSK	22.97	24.97
15	20325	36	#Max	QPSK	22.80	24.80
15	20325	75	#0	QPSK	22.85	24.85
15	20325	1	#0	QAM16	22.68	24.68
15	20325	1	#Mid	QAM16	22.83	24.83
15	20325	1	#Max	QAM16	22.67	24.67
15	20325	36	#0	QAM16	21.93	23.93
15	20325	36	#Mid	QAM16	21.91	23.91
15	20325	36	#Max	QAM16	21.81	23.81
15	20325	75	#0	QAM16	21.91	23.91
20	20050	1	#0	QPSK	23.74	25.74



20	20050	1	#Mid	QPSK	24.21	26.21
20	20050	1	#Max	QPSK	23.82	25.82
20	20050	50	#0	QPSK	23.23	25.23
20	20050	50	#Mid	QPSK	23.29	25.29
20	20050	50	#Max	QPSK	23.24	25.24
20	20050	100	#0	QPSK	24.81	26.81
20	20050	1	#0	QAM16	22.42	24.42
20	20050	1	#Mid	QAM16	23.01	25.01
20	20050	1	#Max	QAM16	22.24	24.24
20	20050	50	#0	QAM16	22.38	24.38
20	20050	50	#Mid	QAM16	22.28	24.28
20	20050	50	#Max	QAM16	22.14	24.14
20	20050	100	#0	QAM16	22.18	24.18
20	20175	1	#0	QPSK	23.66	25.66
20	20175	1	#Mid	QPSK	24.36	26.36
20	20175	1	#Max	QPSK	23.62	25.62
20	20175	50	#0	QPSK	23.01	25.01
20	20175	50	#Mid	QPSK	23.06	25.06
20	20175	50	#Max	QPSK	23.05	25.05
20	20175	100	#0	QPSK	22.98	24.98
20	20175	1	#0	QAM16	22.97	24.97
20	20175	1	#Mid	QAM16	22.48	24.48
20	20175	1	#Max	QAM16	22.71	24.71
20	20175	50	#0	QAM16	22.00	24.00
20	20175	50	#Mid	QAM16	21.94	23.94
20	20175	50	#Max	QAM16	21.96	23.96
20	20175	100	#0	QAM16	21.96	23.96
20	20300	1	#0	QPSK	23.79	25.79
20	20300	1	#Mid	QPSK	24.01	26.01
20	20300	1	#Max	QPSK	23.48	25.48
20	20300	50	#0	QPSK	22.87	24.87
20	20300	50	#Mid	QPSK	22.85	24.85
20	20300	50	#Max	QPSK	22.75	24.75
20	20300	100	#0	QPSK	22.90	24.90
20	20300	1	#0	QAM16	22.80	24.80
20	20300	1	#Mid	QAM16	23.25	25.25
20	20300	1	#Max	QAM16	22.18	24.18
20	20300	50	#0	QAM16	21.87	23.87
20	20300	50	#Mid	QAM16	21.91	23.91
20	20300	50	#Max	QAM16	21.64	23.64
20	20300	100	#0	QAM16	21.81	23.81



LTE Band 7						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
5	20775	1	#0	QPSK	22.64	24.64
5	20775	1	#Mid	QPSK	22.70	24.70
5	20775	1	#Max	QPSK	22.66	24.66
5	20775	12	#0	QPSK	21.72	23.72
5	20775	12	#Mid	QPSK	21.73	23.73
5	20775	12	#Max	QPSK	21.73	23.73
5	20775	25	#0	QPSK	21.81	23.81
5	20775	1	#0	QAM16	22.01	24.01
5	20775	1	#Mid	QAM16	22.28	24.28
5	20775	1	#Max	QAM16	22.11	24.11
5	20775	12	#0	QAM16	20.56	22.56
5	20775	12	#Mid	QAM16	20.59	22.59
5	20775	12	#Max	QAM16	20.58	22.58
5	20775	25	#0	QAM16	20.73	22.73
5	21100	1	#0	QPSK	22.73	24.73
5	21100	1	#Mid	QPSK	22.89	24.89
5	21100	1	#Max	QPSK	22.74	24.74
5	21100	12	#0	QPSK	21.80	23.80
5	21100	12	#Mid	QPSK	21.77	23.77
5	21100	12	#Max	QPSK	21.87	23.87
5	21100	25	#0	QPSK	21.83	23.83
5	21100	1	#0	QAM16	21.78	23.78
5	21100	1	#Mid	QAM16	21.82	23.82
5	21100	1	#Max	QAM16	21.81	23.81
5	21100	12	#0	QAM16	20.65	22.65
5	21100	12	#Mid	QAM16	20.78	22.78
5	21100	12	#Max	QAM16	20.76	22.76
5	21100	25	#0	QAM16	20.78	22.78
5	21425	1	#0	QPSK	23.22	25.22
5	21425	1	#Mid	QPSK	23.44	25.44
5	21425	1	#Max	QPSK	23.38	25.38
5	21425	12	#0	QPSK	22.38	24.38
5	21425	12	#Mid	QPSK	22.34	24.34
5	21425	12	#Max	QPSK	22.37	24.37
5	21425	25	#0	QPSK	22.34	24.34
5	21425	1	#0	QAM16	22.54	24.54
5	21425	1	#Mid	QAM16	22.73	24.73
5	21425	1	#Max	QAM16	22.72	24.72
5	21425	12	#0	QAM16	21.30	23.30
5	21425	12	#Mid	QAM16	21.32	23.32



5	21425	12	#Max	QAM16	21.37	23.37
5	21425	25	#0	QAM16	21.31	23.31
10	20800	1	#0	QPSK	23.16	25.16
10	20800	1	#Mid	QPSK	23.50	25.50
10	20800	1	#Max	QPSK	23.36	25.36
10	20800	25	#0	QPSK	22.11	24.11
10	20800	25	#Mid	QPSK	22.17	24.17
10	20800	25	#Max	QPSK	22.39	24.39
10	20800	50	#0	QPSK	22.33	24.33
10	20800	1	#0	QAM16	22.19	24.19
10	20800	1	#Mid	QAM16	22.49	24.49
10	20800	1	#Max	QAM16	22.33	24.33
10	20800	25	#0	QAM16	21.01	23.01
10	20800	25	#Mid	QAM16	21.02	23.02
10	20800	25	#Max	QAM16	21.30	23.30
10	20800	50	#0	QAM16	21.20	23.20
10	21100	1	#0	QPSK	23.19	25.19
10	21100	1	#Mid	QPSK	23.20	25.20
10	21100	1	#Max	QPSK	23.25	25.25
10	21100	25	#0	QPSK	22.24	24.24
10	21100	25	#Mid	QPSK	22.23	24.23
10	21100	25	#Max	QPSK	21.96	23.96
10	21100	50	#0	QPSK	22.30	24.30
10	21100	1	#0	QAM16	22.22	24.22
10	21100	1	#Mid	QAM16	21.85	23.85
10	21100	1	#Max	QAM16	21.92	23.92
10	21100	25	#0	QAM16	20.72	22.72
10	21100	25	#Mid	QAM16	20.62	22.62
10	21100	25	#Max	QAM16	20.81	22.81
10	21100	50	#0	QAM16	20.71	22.71
10	21400	1	#0	QPSK	23.14	25.14
10	21400	1	#Mid	QPSK	23.36	25.36
10	21400	1	#Max	QPSK	23.30	25.30
10	21400	25	#0	QPSK	22.40	24.40
10	21400	25	#Mid	QPSK	22.41	24.41
10	21400	25	#Max	QPSK	22.35	24.35
10	21400	50	#0	QPSK	22.35	24.35
10	21400	1	#0	QAM16	22.23	24.23
10	21400	1	#Mid	QAM16	22.22	24.22
10	21400	1	#Max	QAM16	22.38	24.38
10	21400	25	#0	QAM16	21.35	23.35
10	21400	25	#Mid	QAM16	21.24	23.24
10	21400	25	#Max	QAM16	21.45	23.45



10	21400	50	#0	QAM16	21.25	23.25
15	20825	1	#0	QPSK	23.04	25.04
15	20825	1	#Mid	QPSK	22.71	24.71
15	20825	1	#Max	QPSK	22.56	24.56
15	20825	36	#0	QPSK	21.74	23.74
15	20825	36	#Mid	QPSK	21.67	23.67
15	20825	36	#Max	QPSK	21.90	23.90
15	20825	75	#0	QPSK	21.76	23.76
15	20825	1	#0	QAM16	21.54	23.54
15	20825	1	#Mid	QAM16	21.67	23.67
15	20825	1	#Max	QAM16	21.57	23.57
15	20825	36	#0	QAM16	20.62	22.62
15	20825	36	#Mid	QAM16	20.60	22.60
15	20825	36	#Max	QAM16	20.74	22.74
15	20825	75	#0	QAM16	20.78	22.78
15	21100	1	#0	QPSK	22.72	24.72
15	21100	1	#Mid	QPSK	22.84	24.84
15	21100	1	#Max	QPSK	22.96	24.96
15	21100	36	#0	QPSK	21.73	23.73
15	21100	36	#Mid	QPSK	21.87	23.87
15	21100	36	#Max	QPSK	21.93	23.93
15	21100	75	#0	QPSK	21.83	23.83
15	21100	1	#0	QAM16	21.40	23.40
15	21100	1	#Mid	QAM16	21.62	23.62
15	21100	1	#Max	QAM16	21.58	23.58
15	21100	36	#0	QAM16	20.75	22.75
15	21100	36	#Mid	QAM16	20.79	22.79
15	21100	36	#Max	QAM16	20.84	22.84
15	21100	75	#0	QAM16	20.83	22.83
15	21375	1	#0	QPSK	23.03	25.03
15	21375	1	#Mid	QPSK	23.22	25.22
15	21375	1	#Max	QPSK	23.29	25.29
15	21375	36	#0	QPSK	22.24	24.24
15	21375	36	#Mid	QPSK	22.39	24.39
15	21375	36	#Max	QPSK	22.40	24.40
15	21375	75	#0	QPSK	22.25	24.25
15	21375	1	#0	QAM16	22.16	24.16
15	21375	1	#Mid	QAM16	22.34	24.34
15	21375	1	#Max	QAM16	22.52	24.52
15	21375	36	#0	QAM16	21.38	23.38
15	21375	36	#Mid	QAM16	21.35	23.35
15	21375	36	#Max	QAM16	21.37	23.37
15	21375	75	#0	QAM16	21.48	23.48



20	20850	1	#0	QPSK	22.26	24.26
20	20850	1	#Mid	QPSK	22.88	24.88
20	20850	1	#Max	QPSK	22.36	24.36
20	20850	50	#0	QPSK	21.49	23.49
20	20850	50	#Mid	QPSK	21.54	23.54
20	20850	50	#Max	QPSK	21.82	23.82
20	20850	100	#0	QPSK	21.72	23.72
20	20850	1	#0	QAM16	20.96	22.96
20	20850	1	#Mid	QAM16	21.30	23.30
20	20850	1	#Max	QAM16	20.96	22.96
20	20850	50	#0	QAM16	20.46	22.46
20	20850	50	#Mid	QAM16	20.57	22.57
20	20850	50	#Max	QAM16	20.91	22.91
20	20850	100	#0	QAM16	20.66	22.66
20	21100	1	#0	QPSK	22.37	24.37
20	21100	1	#Mid	QPSK	22.92	24.92
20	21100	1	#Max	QPSK	22.64	24.64
20	21100	50	#0	QPSK	21.72	23.72
20	21100	50	#Mid	QPSK	21.68	23.68
20	21100	50	#Max	QPSK	21.93	23.93
20	21100	100	#0	QPSK	21.92	23.92
20	21100	1	#0	QAM16	21.50	23.50
20	21100	1	#Mid	QAM16	22.10	24.10
20	21100	1	#Max	QAM16	21.76	23.76
20	21100	50	#0	QAM16	20.78	22.78
20	21100	50	#Mid	QAM16	20.66	22.66
20	21100	50	#Max	QAM16	20.85	22.85
20	21100	100	#0	QAM16	20.83	22.83
20	21350	1	#0	QPSK	22.79	24.79
20	21350	1	#Mid	QPSK	23.56	25.56
20	21350	1	#Max	QPSK	23.27	25.27
20	21350	50	#0	QPSK	22.11	24.11
20	21350	50	#Mid	QPSK	22.09	24.09
20	21350	50	#Max	QPSK	22.28	24.28
20	21350	100	#0	QPSK	22.27	24.27
20	21350	1	#0	QAM16	21.84	23.84
20	21350	1	#Mid	QAM16	22.49	24.49
20	21350	1	#Max	QAM16	22.34	24.34
20	21350	50	#0	QAM16	21.06	23.06
20	21350	50	#Mid	QAM16	21.12	23.12
20	21350	50	#Max	QAM16	21.24	23.24
20	21350	100	#0	QAM16	21.17	23.17



LTE Band 38						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
5	37775	1	#0	QPSK	24.15	26.15
5	37775	1	#Mid	QPSK	24.26	26.26
5	37775	1	#Max	QPSK	24.17	26.17
5	37775	12	#0	QPSK	23.13	25.13
5	37775	12	#Mid	QPSK	23.12	25.12
5	37775	12	#Max	QPSK	23.18	25.18
5	37775	25	#0	QPSK	23.10	25.10
5	37775	1	#0	QAM16	23.43	25.43
5	37775	1	#Mid	QAM16	23.60	25.60
5	37775	1	#Max	QAM16	23.48	25.48
5	37775	12	#0	QAM16	22.14	24.14
5	37775	12	#Mid	QAM16	22.06	24.06
5	37775	12	#Max	QAM16	22.12	24.12
5	37775	25	#0	QAM16	22.10	24.10
5	38000	1	#0	QPSK	24.25	26.25
5	38000	1	#Mid	QPSK	24.39	26.39
5	38000	1	#Max	QPSK	24.37	26.37
5	38000	12	#0	QPSK	23.30	25.30
5	38000	12	#Mid	QPSK	23.24	25.24
5	38000	12	#Max	QPSK	23.31	25.31
5	38000	25	#0	QPSK	23.27	25.27
5	38000	1	#0	QAM16	23.70	25.70
5	38000	1	#Mid	QAM16	23.92	25.92
5	38000	1	#Max	QAM16	23.75	25.75
5	38000	12	#0	QAM16	22.19	24.19
5	38000	12	#Mid	QAM16	22.14	24.14
5	38000	12	#Max	QAM16	22.24	24.24
5	38000	25	#0	QAM16	22.35	24.35
5	38225	1	#0	QPSK	24.42	26.42
5	38225	1	#Mid	QPSK	24.55	26.55
5	38225	1	#Max	QPSK	24.51	26.51
5	38225	12	#0	QPSK	23.49	25.49
5	38225	12	#Mid	QPSK	23.49	25.49
5	38225	12	#Max	QPSK	23.59	25.59
5	38225	25	#0	QPSK	23.60	25.60
5	38225	1	#0	QAM16	23.49	25.49
5	38225	1	#Mid	QAM16	23.61	25.61
5	38225	1	#Max	QAM16	23.57	25.57
5	38225	12	#0	QAM16	22.50	24.50



5	38225	12	#Mid	QAM16	22.44	24.44
5	38225	12	#Max	QAM16	22.47	24.47
5	38225	25	#0	QAM16	22.60	24.60
10	37800	1	#0	QPSK	24.13	26.13
10	37800	1	#Mid	QPSK	24.40	26.40
10	37800	1	#Max	QPSK	24.20	26.20
10	37800	25	#0	QPSK	23.29	25.29
10	37800	25	#Mid	QPSK	23.21	25.21
10	37800	25	#Max	QPSK	23.36	25.36
10	37800	50	#0	QPSK	23.28	25.28
10	37800	1	#0	QAM16	23.08	25.08
10	37800	1	#Mid	QAM16	23.32	25.32
10	37800	1	#Max	QAM16	23.11	25.11
10	37800	25	#0	QAM16	22.26	24.26
10	37800	25	#Mid	QAM16	22.22	24.22
10	37800	25	#Max	QAM16	22.37	24.37
10	37800	50	#0	QAM16	22.22	24.22
10	38000	1	#0	QPSK	24.48	26.48
10	38000	1	#Mid	QPSK	24.71	26.71
10	38000	1	#Max	QPSK	24.49	26.49
10	38000	25	#0	QPSK	23.38	25.38
10	38000	25	#Mid	QPSK	23.38	25.38
10	38000	25	#Max	QPSK	23.41	25.41
10	38000	50	#0	QPSK	23.38	25.38
10	38000	1	#0	QAM16	23.42	25.42
10	38000	1	#Mid	QAM16	23.67	25.67
10	38000	1	#Max	QAM16	23.47	25.47
10	38000	25	#0	QAM16	22.28	24.28
10	38000	25	#Mid	QAM16	22.31	24.31
10	38000	25	#Max	QAM16	22.31	24.31
10	38000	50	#0	QAM16	22.40	24.40
10	38200	1	#0	QPSK	24.41	26.41
10	38200	1	#Mid	QPSK	24.70	26.70
10	38200	1	#Max	QPSK	24.58	26.58
10	38200	25	#0	QPSK	23.64	25.64
10	38200	25	#Mid	QPSK	23.64	25.64
10	38200	25	#Max	QPSK	23.62	25.62
10	38200	50	#0	QPSK	23.51	25.51
10	38200	1	#0	QAM16	23.56	25.56
10	38200	1	#Mid	QAM16	23.89	25.89
10	38200	1	#Max	QAM16	23.74	25.74
10	38200	25	#0	QAM16	22.53	24.53
10	38200	25	#Mid	QAM16	22.54	24.54



10	38200	25	#Max	QAM16	22.62	24.62
10	38200	50	#0	QAM16	22.62	24.62
15	37825	1	#0	QPSK	24.06	26.06
15	37825	1	#Mid	QPSK	24.17	26.17
15	37825	1	#Max	QPSK	24.13	26.13
15	37825	36	#0	QPSK	23.37	25.37
15	37825	36	#Mid	QPSK	23.31	25.31
15	37825	36	#Max	QPSK	23.48	25.48
15	37825	75	#0	QPSK	23.39	25.39
15	37825	1	#0	QAM16	22.98	24.98
15	37825	1	#Mid	QAM16	23.16	25.16
15	37825	1	#Max	QAM16	23.13	25.13
15	37825	36	#0	QAM16	22.17	24.17
15	37825	36	#Mid	QAM16	22.15	24.15
15	37825	36	#Max	QAM16	22.39	24.39
15	37825	75	#0	QAM16	22.35	24.35
15	38000	1	#0	QPSK	24.34	26.34
15	38000	1	#Mid	QPSK	24.60	26.60
15	38000	1	#Max	QPSK	24.51	26.51
15	38000	36	#0	QPSK	23.48	25.48
15	38000	36	#Mid	QPSK	23.47	25.47
15	38000	36	#Max	QPSK	23.48	25.48
15	38000	75	#0	QPSK	23.54	25.54
15	38000	1	#0	QAM16	23.00	25.00
15	38000	1	#Mid	QAM16	23.14	25.14
15	38000	1	#Max	QAM16	23.22	25.22
15	38000	36	#0	QAM16	22.34	24.34
15	38000	36	#Mid	QAM16	22.37	24.37
15	38000	36	#Max	QAM16	22.36	24.36
15	38000	75	#0	QAM16	22.33	24.33
15	38175	1	#0	QPSK	24.33	26.33
15	38175	1	#Mid	QPSK	24.53	26.53
15	38175	1	#Max	QPSK	24.46	26.46
15	38175	36	#0	QPSK	23.61	25.61
15	38175	36	#Mid	QPSK	23.62	25.62
15	38175	36	#Max	QPSK	23.72	25.72
15	38175	75	#0	QPSK	23.66	25.66
15	38175	1	#0	QAM16	23.43	25.43
15	38175	1	#Mid	QAM16	23.73	25.73
15	38175	1	#Max	QAM16	23.69	25.69
15	38175	36	#0	QAM16	22.50	24.50
15	38175	36	#Mid	QAM16	22.57	24.57
15	38175	36	#Max	QAM16	22.63	24.63



15	38175	75	#0	QAM16	22.61	24.61
20	37850	1	#0	QPSK	23.96	25.96
20	37850	1	#Mid	QPSK	24.53	26.53
20	37850	1	#Max	QPSK	24.08	26.08
20	37850	50	#0	QPSK	23.21	25.21
20	37850	50	#Mid	QPSK	23.17	25.17
20	37850	50	#Max	QPSK	23.39	25.39
20	37850	100	#0	QPSK	23.30	25.30
20	37850	1	#0	QAM16	23.01	25.01
20	37850	1	#Mid	QAM16	23.45	25.45
20	37850	1	#Max	QAM16	23.20	25.20
20	37850	50	#0	QAM16	22.11	24.11
20	37850	50	#Mid	QAM16	22.14	24.14
20	37850	50	#Max	QAM16	22.29	24.29
20	37850	100	#0	QAM16	22.33	24.33
20	38000	1	#0	QPSK	24.09	26.09
20	38000	1	#Mid	QPSK	24.56	26.56
20	38000	1	#Max	QPSK	24.22	26.22
20	38000	50	#0	QPSK	23.35	25.35
20	38000	50	#Mid	QPSK	23.31	25.31
20	38000	50	#Max	QPSK	23.40	25.40
20	38000	100	#0	QPSK	23.33	25.33
20	38000	1	#0	QAM16	23.20	25.20
20	38000	1	#Mid	QAM16	23.62	25.62
20	38000	1	#Max	QAM16	23.35	25.35
20	38000	50	#0	QAM16	22.22	24.22
20	38000	50	#Mid	QAM16	22.26	24.26
20	38000	50	#Max	QAM16	22.39	24.39
20	38000	100	#0	QAM16	22.32	24.32
20	38150	1	#0	QPSK	24.08	26.08
20	38150	1	#Mid	QPSK	24.67	26.67
20	38150	1	#Max	QPSK	24.31	26.31
20	38150	50	#0	QPSK	23.46	25.46
20	38150	50	#Mid	QPSK	23.45	25.45
20	38150	50	#Max	QPSK	23.57	25.57
20	38150	100	#0	QPSK	23.44	25.44
20	38150	1	#0	QAM16	22.52	24.52
20	38150	1	#Mid	QAM16	23.06	25.06
20	38150	1	#Max	QAM16	22.69	24.69
20	38150	50	#0	QAM16	22.45	24.45
20	38150	50	#Mid	QAM16	22.46	24.46
20	38150	50	#Max	QAM16	22.55	24.55
20	38150	100	#0	QAM16	22.50	24.50



LTE Band 40 subset 1:						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
5	38725	1	#0	QPSK	22.84	24.84
5	38725	1	#Mid	QPSK	22.80	24.80
5	38725	1	#Max	QPSK	22.80	24.80
5	38725	12	#0	QPSK	21.88	23.88
5	38725	12	#Mid	QPSK	21.87	23.87
5	38725	12	#Max	QPSK	21.89	23.89
5	38725	25	#0	QPSK	21.90	23.90
5	38725	1	#0	QAM16	22.12	24.12
5	38725	1	#Mid	QAM16	22.20	24.20
5	38725	1	#Max	QAM16	22.20	24.20
5	38725	12	#0	QAM16	20.76	22.76
5	38725	12	#Mid	QAM16	20.89	22.89
5	38725	12	#Max	QAM16	20.90	22.90
5	38725	25	#0	QAM16	20.88	22.88
5	38750	1	#0	QPSK	22.70	24.70
5	38750	1	#Mid	QPSK	22.94	24.94
5	38750	1	#Max	QPSK	22.78	24.78
5	38750	12	#0	QPSK	21.86	23.86
5	38750	12	#Mid	QPSK	21.90	23.90
5	38750	12	#Max	QPSK	21.87	23.87
5	38750	25	#0	QPSK	21.79	23.79
5	38750	1	#0	QAM16	22.28	24.28
5	38750	1	#Mid	QAM16	22.34	24.34
5	38750	1	#Max	QAM16	22.28	24.28
5	38750	12	#0	QAM16	20.71	22.71
5	38750	12	#Mid	QAM16	20.76	22.76
5	38750	12	#Max	QAM16	20.71	22.71
5	38750	25	#0	QAM16	20.79	22.79
5	38775	1	#0	QPSK	22.79	24.79
5	38775	1	#Mid	QPSK	22.89	24.89
5	38775	1	#Max	QPSK	22.79	24.79
5	38775	12	#0	QPSK	21.91	23.91
5	38775	12	#Mid	QPSK	21.93	23.93
5	38775	12	#Max	QPSK	21.90	23.90
5	38775	25	#0	QPSK	21.84	23.84
5	38775	1	#0	QAM16	21.95	23.95
5	38775	1	#Mid	QAM16	22.02	24.02
5	38775	1	#Max	QAM16	21.85	23.85
5	38775	12	#0	QAM16	20.88	22.88



5	38775	12	#Mid	QAM16	20.84	22.84
5	38775	12	#Max	QAM16	20.88	22.88
5	38775	25	#0	QAM16	20.88	22.88
10	38750	1	#0	QPSK	22.93	24.93
10	38750	1	#Mid	QPSK	23.15	25.15
10	38750	1	#Max	QPSK	22.90	24.90
10	38750	25	#0	QPSK	21.92	23.92
10	38750	25	#Mid	QPSK	21.94	23.94
10	38750	25	#Max	QPSK	21.90	23.90
10	38750	50	#0	QPSK	21.82	23.82
10	38750	1	#0	QAM16	21.92	23.92
10	38750	1	#Mid	QAM16	22.21	24.21
10	38750	1	#Max	QAM16	21.98	23.98
10	38750	25	#0	QAM16	20.76	22.76
10	38750	25	#Mid	QAM16	20.87	22.87
10	38750	25	#Max	QAM16	20.85	22.85
10	38750	50	#0	QAM16	20.87	22.87

LTE Band 40 subset 2:						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
5	39175	1	#0	QPSK	22.48	24.48
5	39175	1	#Mid	QPSK	22.56	24.56
5	39175	1	#Max	QPSK	22.48	24.48
5	39175	12	#0	QPSK	21.48	23.48
5	39175	12	#Mid	QPSK	21.44	23.44
5	39175	12	#Max	QPSK	21.42	23.42
5	39175	25	#0	QPSK	21.46	23.46
5	39175	1	#0	QAM16	22.02	24.02
5	39175	1	#Mid	QAM16	21.92	23.92
5	39175	1	#Max	QAM16	21.91	23.91
5	39175	12	#0	QAM16	20.39	22.39
5	39175	12	#Mid	QAM16	20.50	22.50
5	39175	12	#Max	QAM16	20.43	22.43
5	39175	25	#0	QAM16	20.53	22.53
5	39200	1	#0	QPSK	22.50	24.50
5	39200	1	#Mid	QPSK	22.43	24.43
5	39200	1	#Max	QPSK	22.46	24.46
5	39200	12	#0	QPSK	21.52	23.52
5	39200	12	#Mid	QPSK	21.44	23.44
5	39200	12	#Max	QPSK	21.44	23.44
5	39200	25	#0	QPSK	21.48	23.48
5	39200	1	#0	QAM16	21.49	23.49



5	39200	1	#Mid	QAM16	21.50	23.50
5	39200	1	#Max	QAM16	21.57	23.57
5	39200	12	#0	QAM16	20.52	22.52
5	39200	12	#Mid	QAM16	20.56	22.56
5	39200	12	#Max	QAM16	20.44	22.44
5	39200	25	#0	QAM16	20.44	22.44
5	39225	1	#0	QPSK	22.37	24.37
5	39225	1	#Mid	QPSK	22.50	24.50
5	39225	1	#Max	QPSK	22.43	24.43
5	39225	12	#0	QPSK	21.45	23.45
5	39225	12	#Mid	QPSK	21.43	23.43
5	39225	12	#Max	QPSK	21.53	23.53
5	39225	25	#0	QPSK	21.51	23.51
5	39225	1	#0	QAM16	21.76	23.76
5	39225	1	#Mid	QAM16	21.87	23.87
5	39225	1	#Max	QAM16	21.74	23.74
5	39225	12	#0	QAM16	20.41	22.41
5	39225	12	#Mid	QAM16	20.55	22.55
5	39225	12	#Max	QAM16	20.41	22.41
5	39225	25	#0	QAM16	20.53	22.53
10	39200	1	#0	QPSK	22.51	24.51
10	39200	1	#Mid	QPSK	22.70	24.70
10	39200	1	#Max	QPSK	22.33	24.33
10	39200	25	#0	QPSK	21.52	23.52
10	39200	25	#Mid	QPSK	21.60	23.60
10	39200	25	#Max	QPSK	21.59	23.59
10	39200	50	#0	QPSK	21.54	23.54
10	39200	1	#0	QAM16	21.69	23.69
10	39200	1	#Mid	QAM16	21.87	23.87
10	39200	1	#Max	QAM16	21.70	23.70
10	39200	25	#0	QAM16	20.57	22.57
10	39200	25	#Mid	QAM16	20.55	22.55
10	39200	25	#Max	QAM16	20.51	22.51
10	39200	50	#0	QAM16	20.52	22.52

LTE Band 41						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
5	40065	1	#0	QPSK	23.38	25.38
5	40065	1	#Mid	QPSK	23.59	25.59
5	40065	1	#Max	QPSK	23.42	25.42
5	40065	12	#0	QPSK	22.39	24.39
5	40065	12	#Mid	QPSK	22.47	24.47



5	40065	12	#Max	QPSK	22.52	24.52
5	40065	25	#0	QPSK	22.49	24.49
5	40065	1	#0	QAM16	22.76	24.76
5	40065	1	#Mid	QAM16	22.99	24.99
5	40065	1	#Max	QAM16	22.89	24.89
5	40065	12	#0	QAM16	21.37	23.37
5	40065	12	#Mid	QAM16	21.33	23.33
5	40065	12	#Max	QAM16	21.41	23.41
5	40065	25	#0	QAM16	21.50	23.50
5	40640	1	#0	QPSK	24.31	26.31
5	40640	1	#Mid	QPSK	24.41	26.41
5	40640	1	#Max	QPSK	24.22	26.22
5	40640	12	#0	QPSK	23.35	25.35
5	40640	12	#Mid	QPSK	23.30	25.30
5	40640	12	#Max	QPSK	23.37	25.37
5	40640	25	#0	QPSK	23.31	25.31
5	40640	1	#0	QAM16	23.29	25.29
5	40640	1	#Mid	QAM16	23.39	25.39
5	40640	1	#Max	QAM16	23.28	25.28
5	40640	12	#0	QAM16	22.24	24.24
5	40640	12	#Mid	QAM16	22.23	24.23
5	40640	12	#Max	QAM16	22.34	24.34
5	40640	25	#0	QAM16	22.32	24.32
5	41215	1	#0	QPSK	24.29	26.29
5	41215	1	#Mid	QPSK	24.43	26.43
5	41215	1	#Max	QPSK	24.22	26.22
5	41215	12	#0	QPSK	23.41	25.41
5	41215	12	#Mid	QPSK	23.39	25.39
5	41215	12	#Max	QPSK	23.40	25.40
5	41215	25	#0	QPSK	23.36	25.36
5	41215	1	#0	QAM16	23.65	25.65
5	41215	1	#Mid	QAM16	23.77	25.77
5	41215	1	#Max	QAM16	23.58	25.58
5	41215	12	#0	QAM16	22.25	24.25
5	41215	12	#Mid	QAM16	22.33	24.33
5	41215	12	#Max	QAM16	22.32	24.32
5	41215	25	#0	QAM16	22.37	24.37
10	40090	1	#0	QPSK	23.42	25.42
10	40090	1	#Mid	QPSK	23.72	25.72
10	40090	1	#Max	QPSK	23.54	25.54
10	40090	25	#0	QPSK	22.46	24.46
10	40090	25	#Mid	QPSK	22.55	24.55
10	40090	25	#Max	QPSK	22.63	24.63



10	40090	50	#0	QPSK	22.57	24.57
10	40090	1	#0	QAM16	22.59	24.59
10	40090	1	#Mid	QAM16	22.85	24.85
10	40090	1	#Max	QAM16	22.80	24.80
10	40090	25	#0	QAM16	21.54	23.54
10	40090	25	#Mid	QAM16	21.45	23.45
10	40090	25	#Max	QAM16	21.59	23.59
10	40090	50	#0	QAM16	21.53	23.53
10	40640	1	#0	QPSK	24.20	26.20
10	40640	1	#Mid	QPSK	24.51	26.51
10	40640	1	#Max	QPSK	24.32	26.32
10	40640	25	#0	QPSK	23.37	25.37
10	40640	25	#Mid	QPSK	23.30	25.30
10	40640	25	#Max	QPSK	23.41	25.41
10	40640	50	#0	QPSK	23.34	25.34
10	40640	1	#0	QAM16	23.15	25.15
10	40640	1	#Mid	QAM16	23.36	25.36
10	40640	1	#Max	QAM16	23.17	25.17
10	40640	25	#0	QAM16	22.32	24.32
10	40640	25	#Mid	QAM16	22.32	24.32
10	40640	25	#Max	QAM16	22.39	24.39
10	40640	50	#0	QAM16	22.27	24.27
10	41190	1	#0	QPSK	24.52	26.52
10	41190	1	#Mid	QPSK	24.69	26.69
10	41190	1	#Max	QPSK	24.35	26.35
10	41190	25	#0	QPSK	23.43	25.43
10	41190	25	#Mid	QPSK	23.43	25.43
10	41190	25	#Max	QPSK	23.39	25.39
10	41190	50	#0	QPSK	23.43	25.43
10	41190	1	#0	QAM16	23.57	25.57
10	41190	1	#Mid	QAM16	23.67	25.67
10	41190	1	#Max	QAM16	23.35	25.35
10	41190	25	#0	QAM16	22.34	24.34
10	41190	25	#Mid	QAM16	22.48	24.48
10	41190	25	#Max	QAM16	22.31	24.31
10	41190	50	#0	QAM16	22.44	24.44
15	40115	1	#0	QPSK	23.26	25.26
15	40115	1	#Mid	QPSK	23.62	25.62
15	40115	1	#Max	QPSK	23.57	25.57
15	40115	36	#0	QPSK	22.57	24.57
15	40115	36	#Mid	QPSK	22.48	24.48
15	40115	36	#Max	QPSK	22.77	24.77
15	40115	75	#0	QPSK	22.66	24.66



15	40115	1	#0	QAM16	22.42	24.42
15	40115	1	#Mid	QAM16	22.77	24.77
15	40115	1	#Max	QAM16	22.82	24.82
15	40115	36	#0	QAM16	21.55	23.55
15	40115	36	#Mid	QAM16	21.54	23.54
15	40115	36	#Max	QAM16	21.75	23.75
15	40115	75	#0	QAM16	21.63	23.63
15	40640	1	#0	QPSK	24.03	26.03
15	40640	1	#Mid	QPSK	24.29	26.29
15	40640	1	#Max	QPSK	24.19	26.19
15	40640	36	#0	QPSK	23.40	25.40
15	40640	36	#Mid	QPSK	23.40	25.40
15	40640	36	#Max	QPSK	23.47	25.47
15	40640	75	#0	QPSK	23.45	25.45
15	40640	1	#0	QAM16	23.04	25.04
15	40640	1	#Mid	QAM16	23.22	25.22
15	40640	1	#Max	QAM16	23.11	25.11
15	40640	36	#0	QAM16	22.21	24.21
15	40640	36	#Mid	QAM16	22.24	24.24
15	40640	36	#Max	QAM16	22.37	24.37
15	40640	75	#0	QAM16	22.39	24.39
15	41165	1	#0	QPSK	24.50	26.50
15	41165	1	#Mid	QPSK	24.60	26.60
15	41165	1	#Max	QPSK	24.43	26.43
15	41165	36	#0	QPSK	23.54	25.54
15	41165	36	#Mid	QPSK	23.56	25.56
15	41165	36	#Max	QPSK	23.49	25.49
15	41165	75	#0	QPSK	23.52	25.52
15	41165	1	#0	QAM16	23.15	25.15
15	41165	1	#Mid	QAM16	23.27	25.27
15	41165	1	#Max	QAM16	23.10	25.10
15	41165	36	#0	QAM16	22.46	24.46
15	41165	36	#Mid	QAM16	22.43	24.43
15	41165	36	#Max	QAM16	22.45	24.45
15	41165	75	#0	QAM16	22.49	24.49
20	40140	1	#0	QPSK	23.24	25.24
20	40140	1	#Mid	QPSK	23.80	25.80
20	40140	1	#Max	QPSK	23.59	25.59
20	40140	50	#0	QPSK	22.43	24.43
20	40140	50	#Mid	QPSK	22.44	24.44
20	40140	50	#Max	QPSK	22.79	24.79
20	40140	100	#0	QPSK	22.55	24.55
20	40140	1	#0	QAM16	21.62	23.62



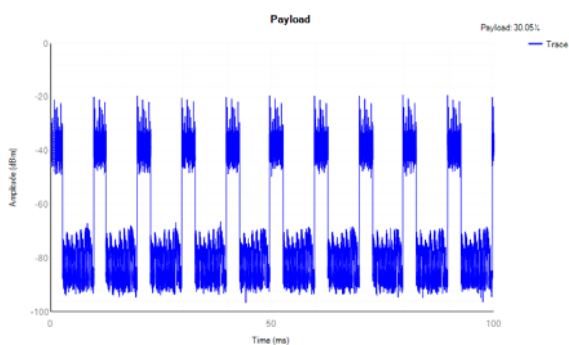
20	40140	1	#Mid	QAM16	22.22	24.22
20	40140	1	#Max	QAM16	22.01	24.01
20	40140	50	#0	QAM16	21.51	23.51
20	40140	50	#Mid	QAM16	21.49	23.49
20	40140	50	#Max	QAM16	21.79	23.79
20	40140	100	#0	QAM16	21.58	23.58
20	40640	1	#0	QPSK	24.01	26.01
20	40640	1	#Mid	QPSK	24.54	26.54
20	40640	1	#Max	QPSK	24.11	26.11
20	40640	50	#0	QPSK	23.25	25.25
20	40640	50	#Mid	QPSK	23.25	25.25
20	40640	50	#Max	QPSK	23.37	25.37
20	40640	100	#0	QPSK	23.32	25.32
20	40640	1	#0	QAM16	23.05	25.05
20	40640	1	#Mid	QAM16	23.52	25.52
20	40640	1	#Max	QAM16	23.22	25.22
20	40640	50	#0	QAM16	22.22	24.22
20	40640	50	#Mid	QAM16	22.15	24.15
20	40640	50	#Max	QAM16	22.30	24.30
20	40640	100	#0	QAM16	22.34	24.34
20	41140	1	#0	QPSK	24.18	26.18
20	41140	1	#Mid	QPSK	24.65	26.65
20	41140	1	#Max	QPSK	24.15	26.15
20	41140	50	#0	QPSK	23.43	25.43
20	41140	50	#Mid	QPSK	23.43	25.43
20	41140	50	#Max	QPSK	23.41	25.41
20	41140	100	#0	QPSK	23.40	25.40
20	41140	1	#0	QAM16	23.35	25.35
20	41140	1	#Mid	QAM16	23.81	25.81
20	41140	1	#Max	QAM16	23.23	25.23
20	41140	50	#0	QAM16	22.36	24.36
20	41140	50	#Mid	QAM16	22.36	24.36
20	41140	50	#Max	QAM16	22.46	24.46
20	41140	100	#0	QAM16	22.43	24.43



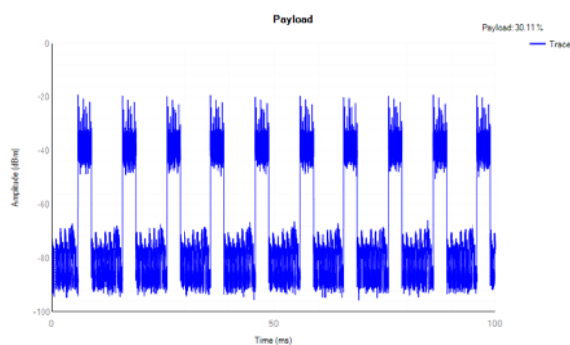
Power Spectral Density and Duty Cycle for LTE Band 40

Duty Cycle

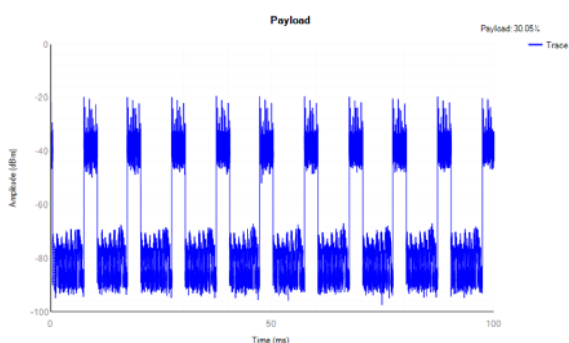
LTE Band 40 Subset 1 QPSK 5MHz CH-Low



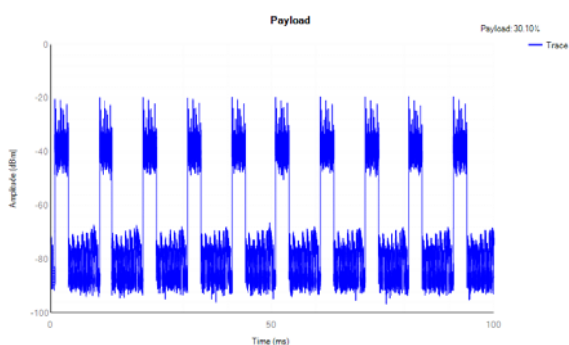
LTE Band 40 Subset 1 QPSK 10MHz



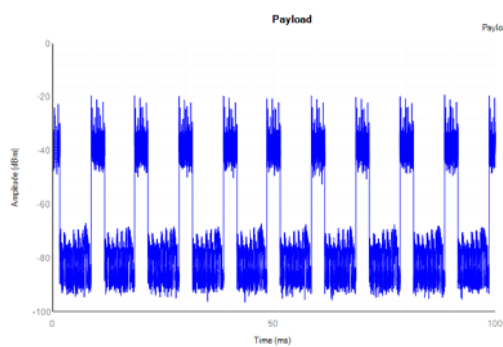
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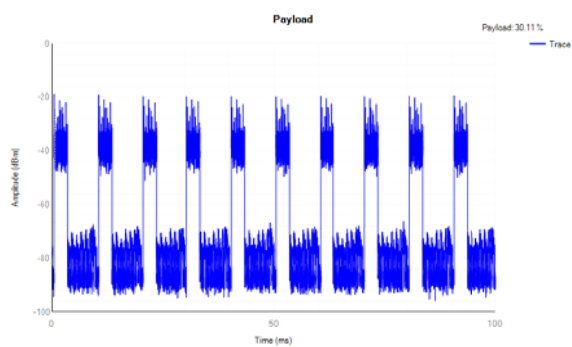
LTE Band 40 Subset 1 QPSK 5MHz CH-High



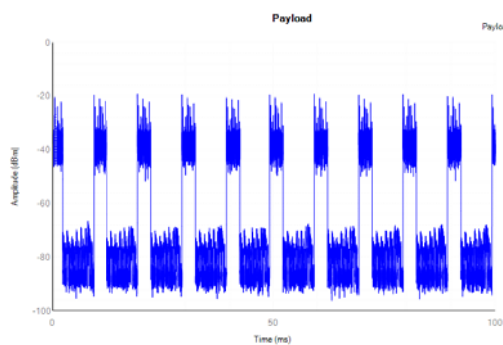
LTE Band 40 Subset 1 16QAM 5MHz CH-Low



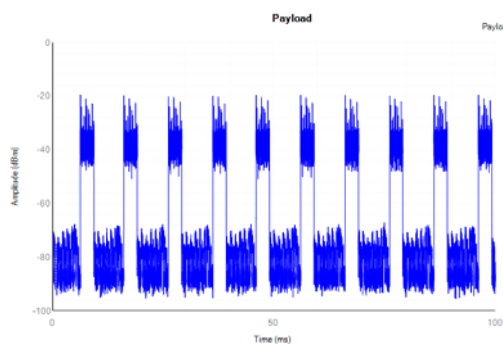
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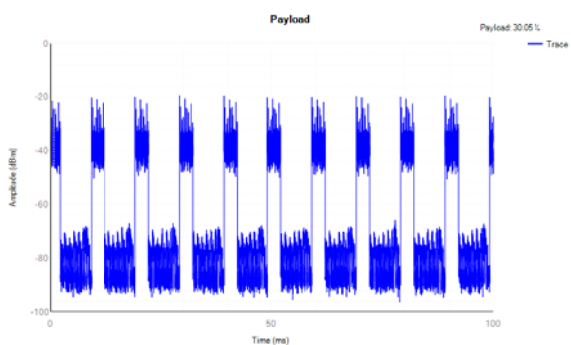
LTE Band 40 Subset 1 16QAM 5MHz CH-Middle



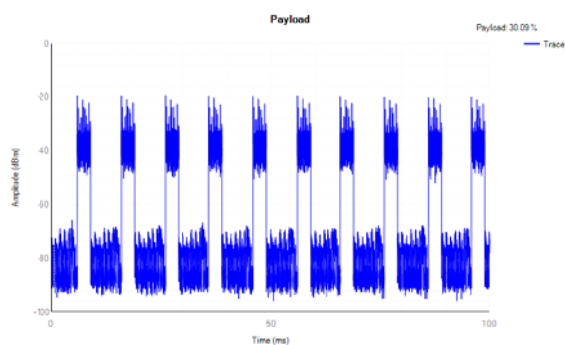
LTE Band 40 Subset 1 16QAM 5MHz CH-High



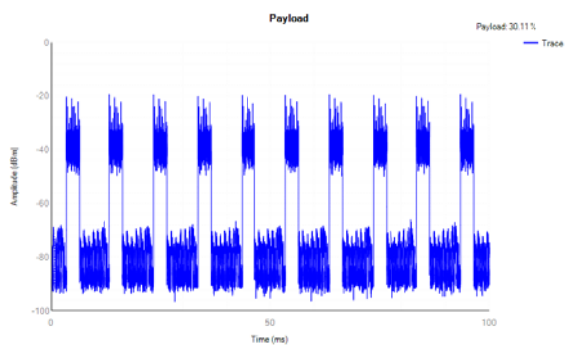
LTE Band 40 Subset 1 QPSK 5MHz CH-Low



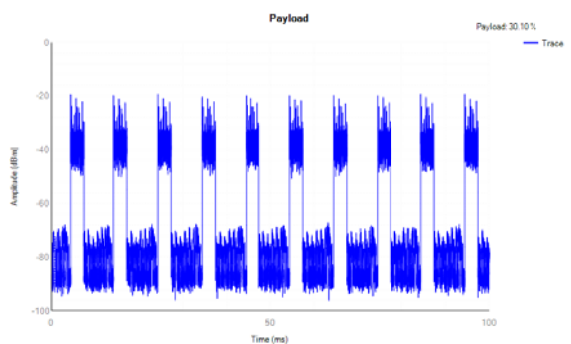
LTE Band 40 Subset 1 QPSK 10MHz



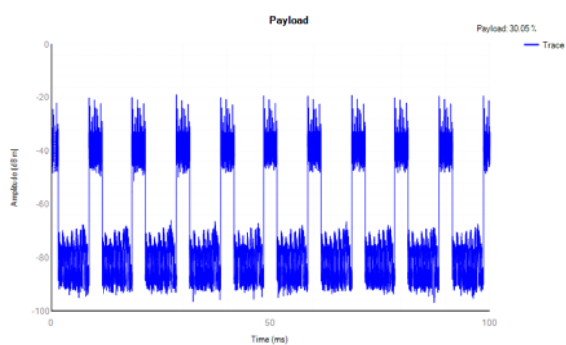
LTE Band 40 Subset 1 QPSK 5MHz CH-Middle



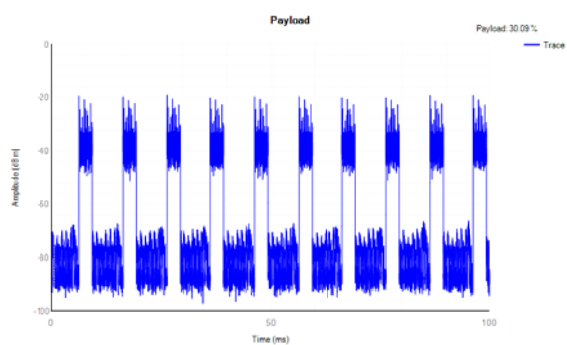
LTE Band 40 Subset 1 QPSK 5MHz CH-High



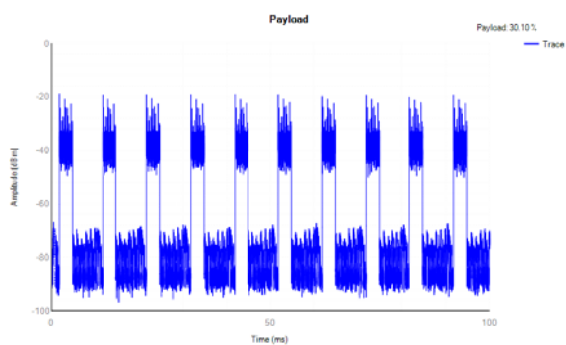
LTE Band 40 Subset 2 16QAM 5MHz CH-Low



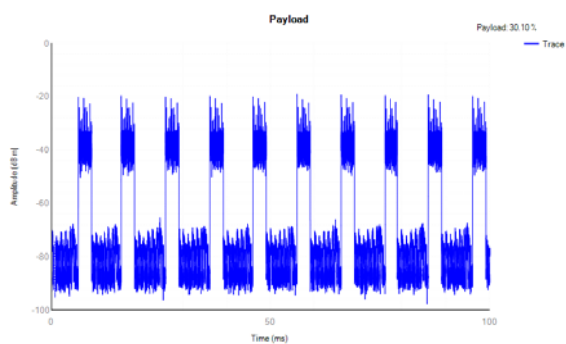
LTE Band 40 Subset 2 16QAM 10MHz



LTE Band 40 Subset 2 16QAM 5MHz CH-Middle



LTE Band 40 Subset 2 16QAM 5MHz CH-High





LTE Band 40 Subset 1				Conducted Power Spectral Density (dBm/MHz)			EIRP Power Spectra Density (dBm/MHz)			EIRP Power Spectra Density (mW/MHz)			Limit (mW/MHz)
BW	Mddulati on	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			
				38725/2307.5	38750/2310	38775/2312.5	38725/2307.5	38750/2310	38775/2312.5	38725/2307.5	38750/2310	38775/2312.5	
5MHz	QPSK	25	0	18.205	18.107	18.291	20.205	20.107	20.291	104.8335	102.4944	106.9301	250
	16QAM	25	0	17.674	17.667	17.269	19.674	19.667	19.269	92.7684	92.6190	84.5084	250
BW	Mddulati on	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			Limit (mW/MHz)
				38750/2310			38750/2310			38750/2310			
10MHz	QPSK	50	0	15.504			17.504			56.2859			250
	16QAM	50	0	13.414			15.414			34.7856			250

LTE Band 40 Subset 1				Conducted Power Spectral Density (dBm/5MHz)			EIRP Power Spectra Density (dBm/5MHz)			EIRP Power Spectra Density (mW/5MHz)			Limit (mW /5MHz)
BW	Mddulati on	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			
				38725/2307.5	38750/2310	38775/2312.5	38725/2307.5	38750/2310	38775/2312.5	38725/2307.5	38750/2310	38775/2312.5	
5MHz	QPSK	25	0	20.708	20.993	20.961	22.708	22.993	22.961	186.5520	199.2049	197.7425	250
	16QAM	25	0	20.347	20.962	20.699	22.347	22.962	22.699	171.6722	197.7880	186.1658	250
BW	Mddulati on	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			Limit (mW /5MHz)
				38750/2310			38750/2310			38750/2310			
10MHz	QPSK	50	0	19.220			21.220			132.4342			250
	16QAM	50	0	18.555			20.555			113.6318			250



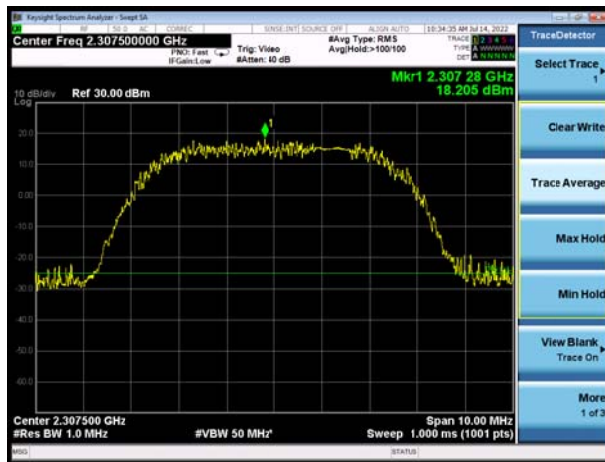
LTE Band 40 Subset 2				Conducted Power Spectral Density (dBm/MHz)			EIRP Power Spectra Density (dBm/MHz)			EIRP Power Spectra Density (mW/MHz)			Limit (mW /MHz)
BW	Mddulati on	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			
				39175/2352.5	39200/2355	39225/2357.5	39175/2352.5	39200/2355	39225/2357.5	39175/2352.5	39200/2355	39225/2357.5	
5MHz	QPSK	25	0	18.306	19.128	18.939	20.306	21.128	20.939	107.3001	129.6582	124.1366	250
	16QAM	25	0	17.856	17.683	18.478	19.856	19.683	20.478	96.7386	92.9608	111.6349	250
BW	Mddulati on	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			Limit (mW /MHz)
				39200/2355			39200/2355			39200/2355			
10MHz	QPSK	50	0	15.231			17.231			52.8567			250
	16QAM	50	0	16.009			18.009			63.2266			250

LTE Band 40 Subset 2				Conducted Power Spectral Density (dBm/5MHz)			EIRP Power Spectra Density (dBm/5MHz)			EIRP Power Spectra Density (mW/5MHz)			Limit (mW /5MHz)
BW	Mddulati on	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			
				39175/2352.5	39200/2355	39225/2357.5	39175/2352.5	39200/2355	39225/2357.5	39175/2352.5	39200/2355	39225/2357.5	
5MHz	QPSK	25	0	21.952	21.907	21.852	23.952	23.907	23.852	248.4277	245.8669	242.7728	250
	16QAM	25	0	21.588	21.619	21.954	23.588	23.619	23.954	228.4546	230.0912	248.5421	250
BW	Mddulati on	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			Limit (mW /5MHz)
				39200/2355			39200/2355			39200/2355			
10MHz	QPSK	50	0	21.079			23.079			203.1889			250
	16QAM	50	0	20.481			22.481			177.0517			250

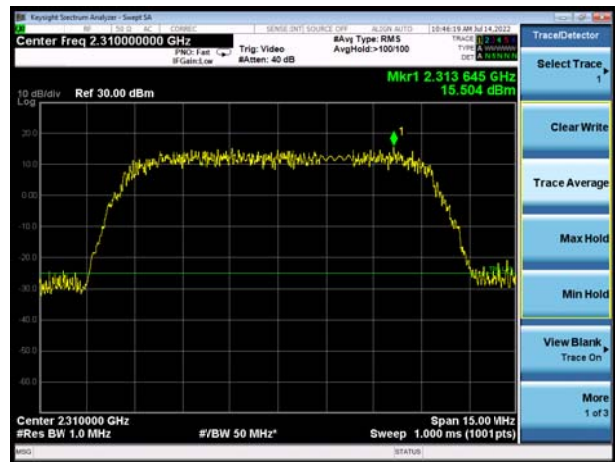


Power Spectral Density (dBm/MHz)

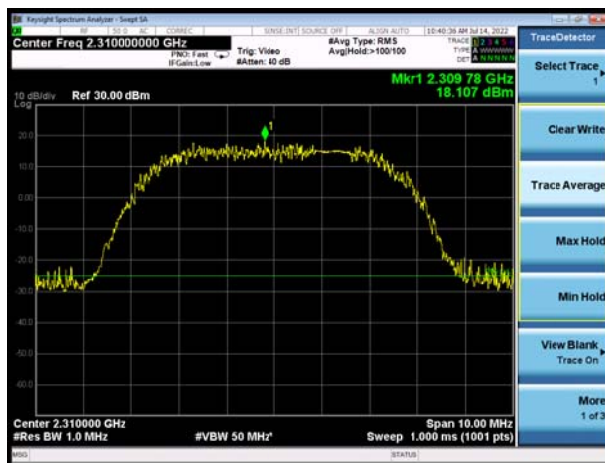
LTE Band 40 Subset 1 QPSK 5MHz CH-Low



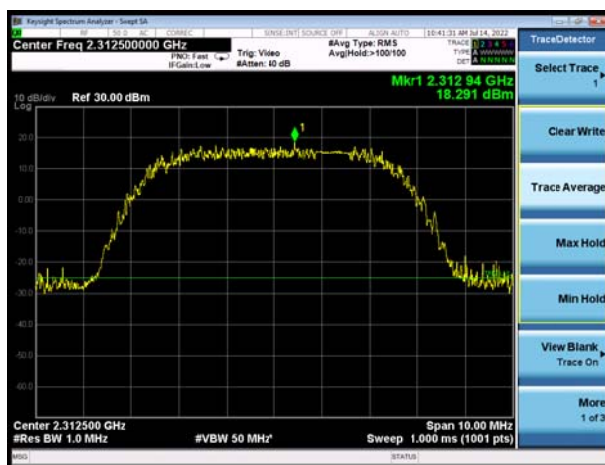
LTE Band 40 Subset 1 QPSK 10MHz



LTE Band 40 Subset 1 QPSK 5MHz CH-Middle

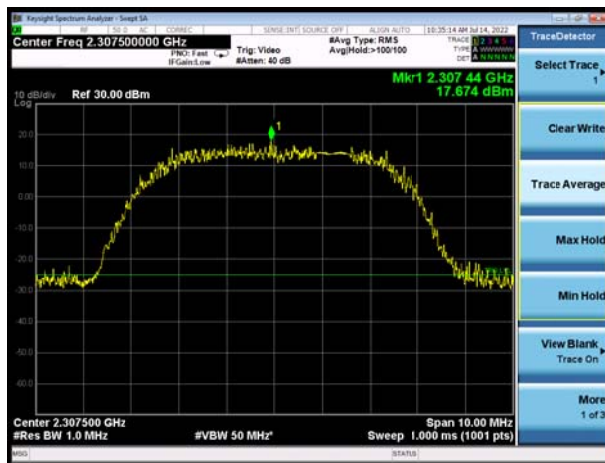


LTE Band 40 Subset 1 QPSK 5MHz CH-High

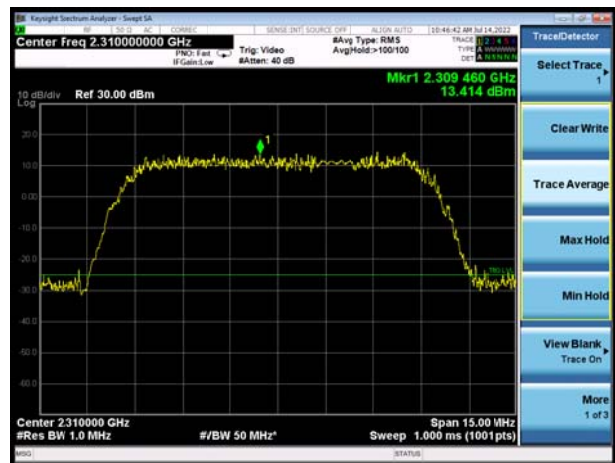




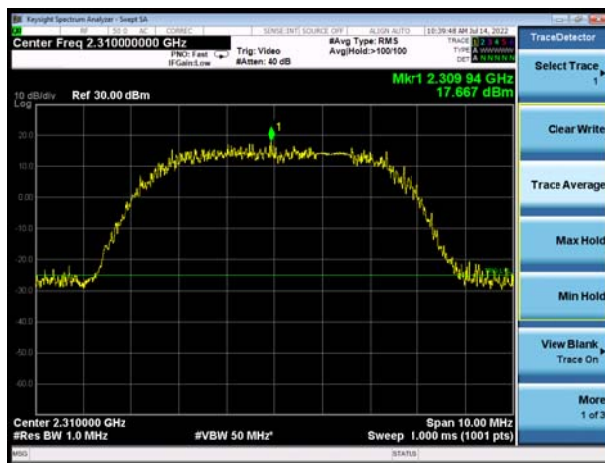
LTE Band 40 Subset 1 16QAM 5MHz CH-Low



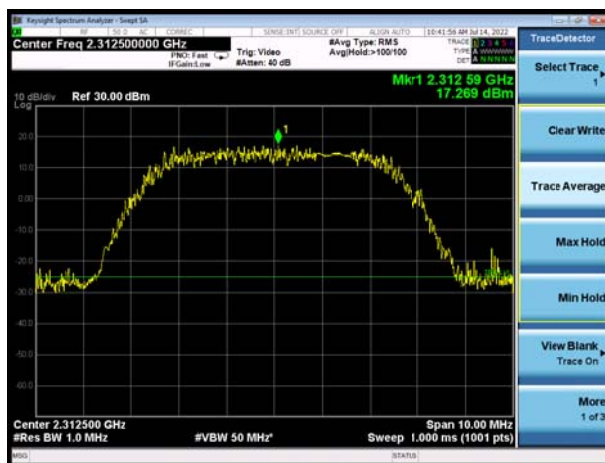
LTE Band 40 Subset 1 16QAM 10MHz



LTE Band 40 Subset 1 16QAM 5MHz CH-Middle

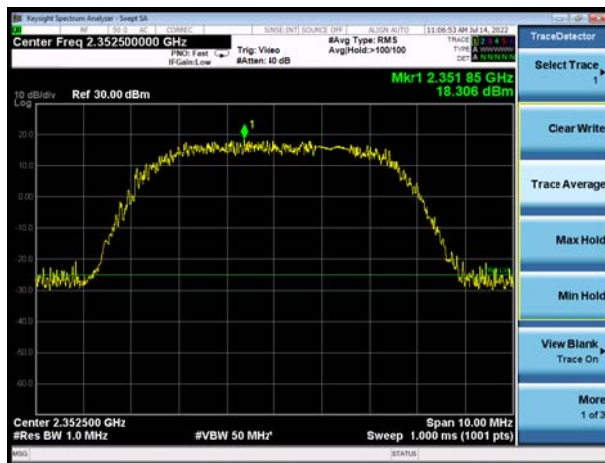


LTE Band 40 Subset 1 16QAM 5MHz CH-High

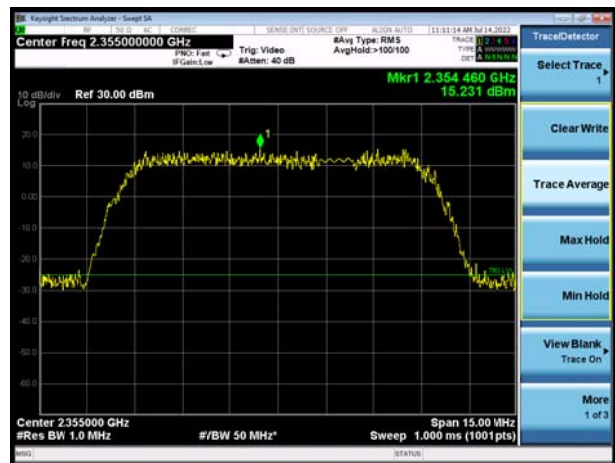




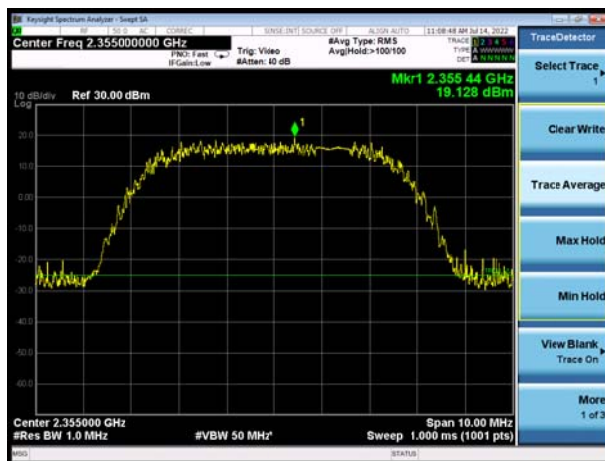
LTE Band 40 Subset 2 QPSK 5MHz CH-Low



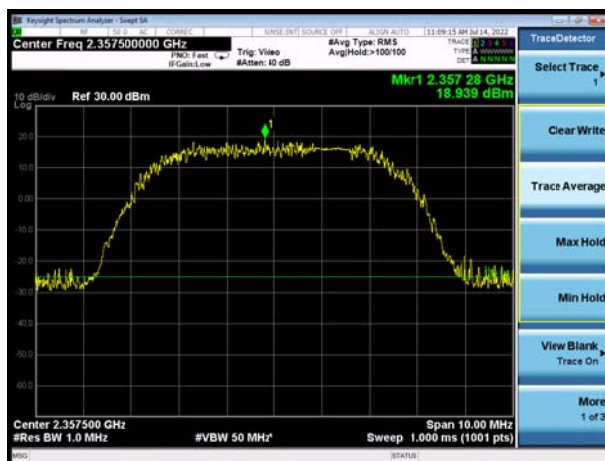
LTE Band 40 Subset 2 QPSK 10MHz



LTE Band 40 Subset 2 QPSK 5MHz CH-Middle

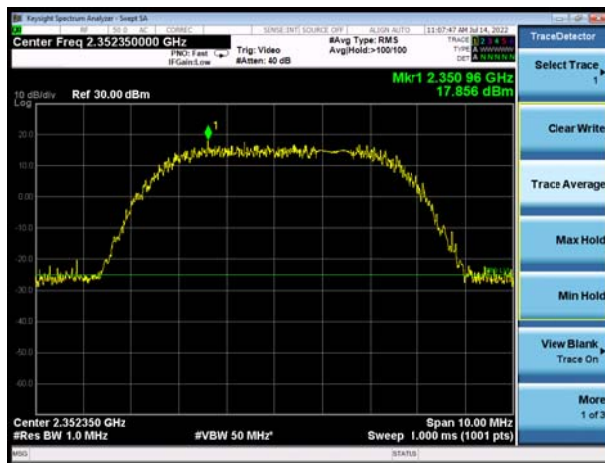


LTE Band 40 Subset 2 QPSK 5MHz CH-High

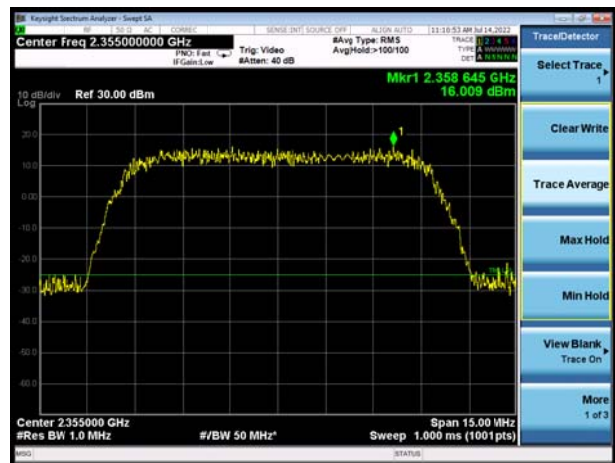




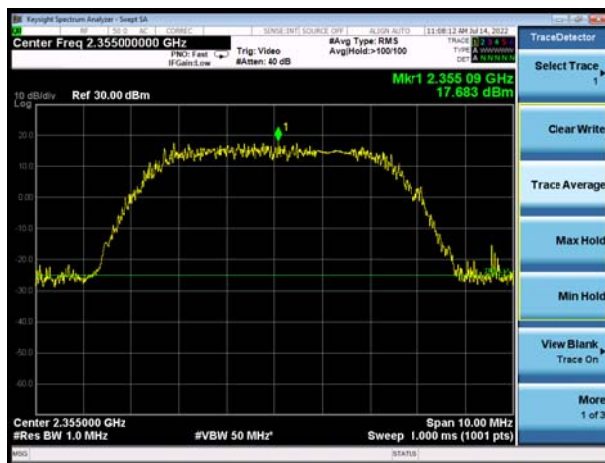
LTE Band 40 Subset 2 16QAM 5MHz CH-Low



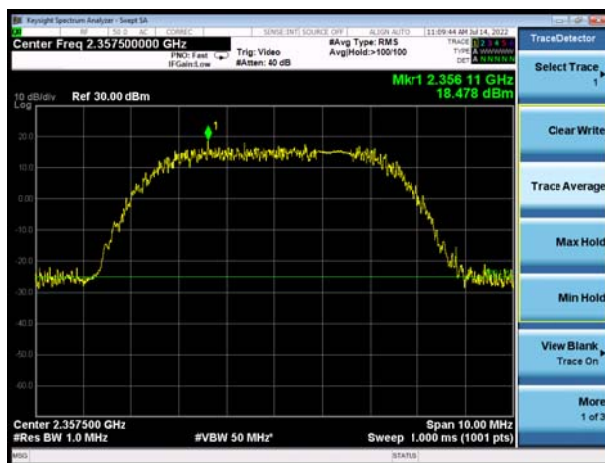
LTE Band 40 Subset 2 16QAM 10MHz



LTE Band 40 Subset 2 16QAM 5MHz CH-Middle



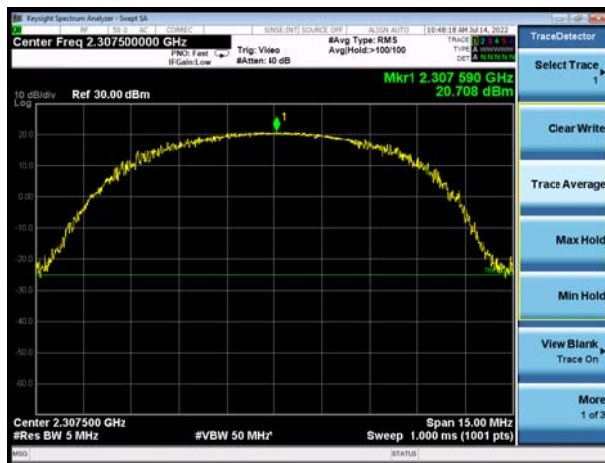
LTE Band 40 Subset 2 16QAM 5MHz CH-High



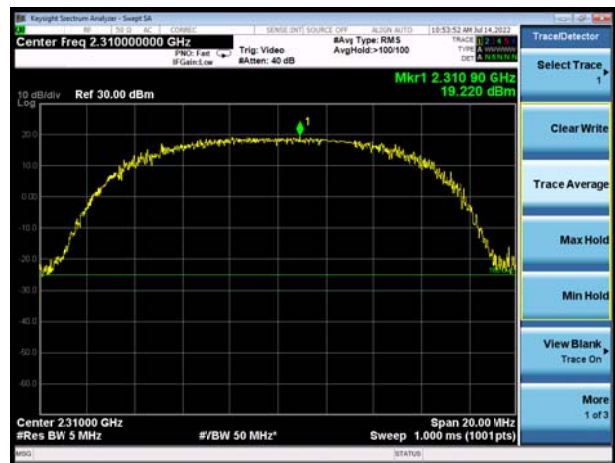


Power Spectral Density (dBm/5MHz)

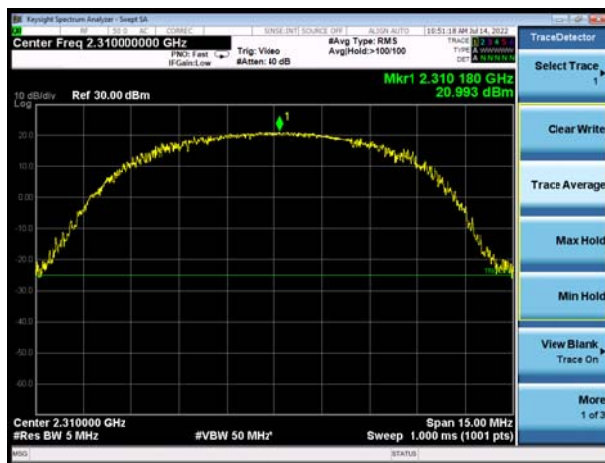
LTE Band 40 Subset 1 QPSK 5MHz CH-Low



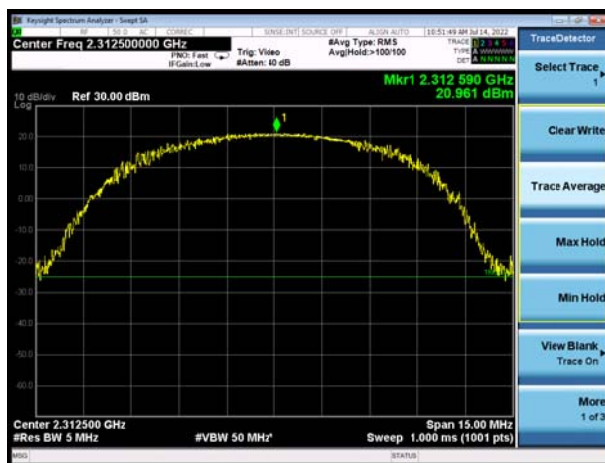
LTE Band 40 Subset 1 QPSK 10MHz



LTE Band 40 Subset 1 QPSK 5MHz CH-Middle

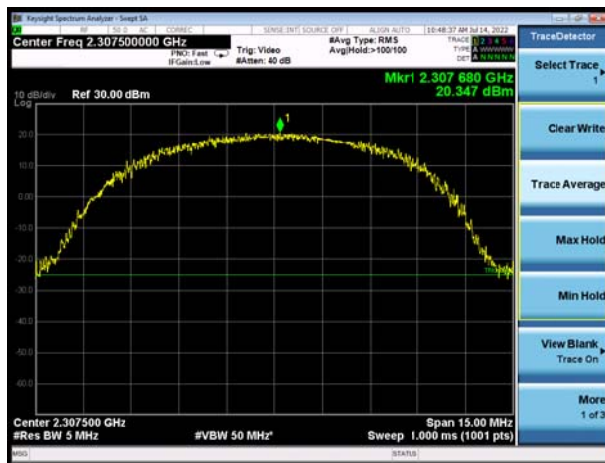


LTE Band 40 Subset 1 QPSK 5MHz CH-High

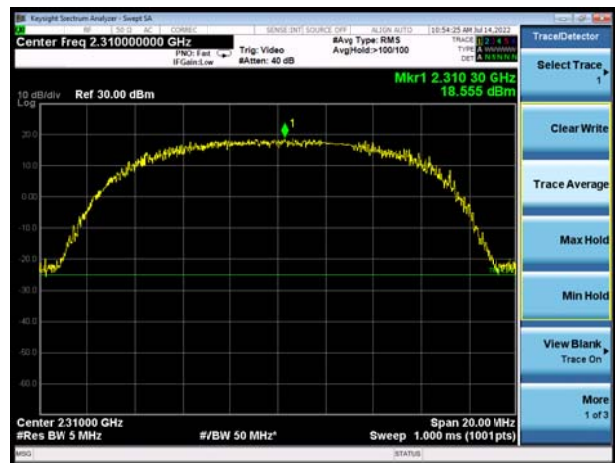




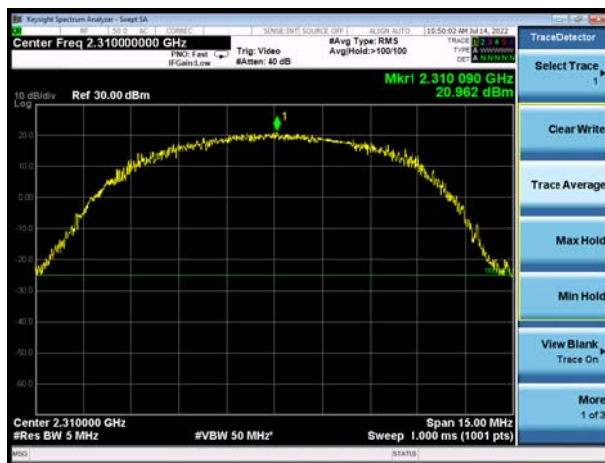
LTE Band 40 Subset 1 16QAM 5MHz CH-Low



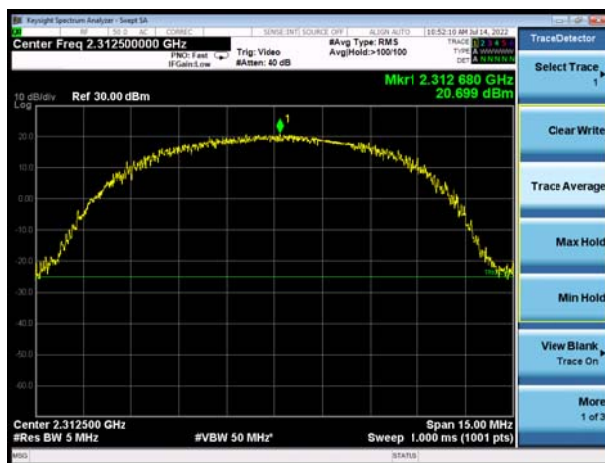
LTE Band 40 Subset 1 16QAM 10MHz



LTE Band 40 Subset 1 16QAM 5MHz CH-Middle

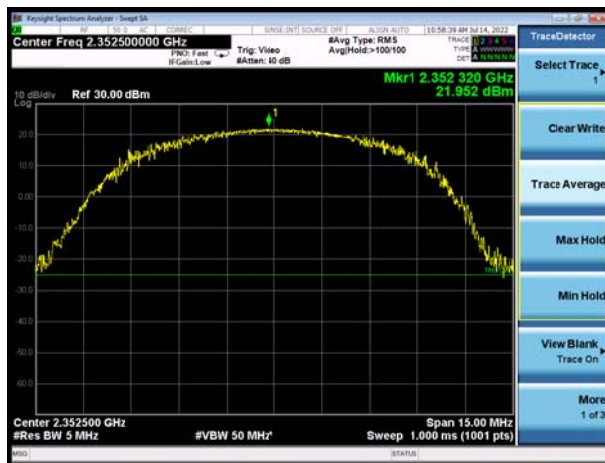


LTE Band 40 Subset 1 16QAM 5MHz CH-High

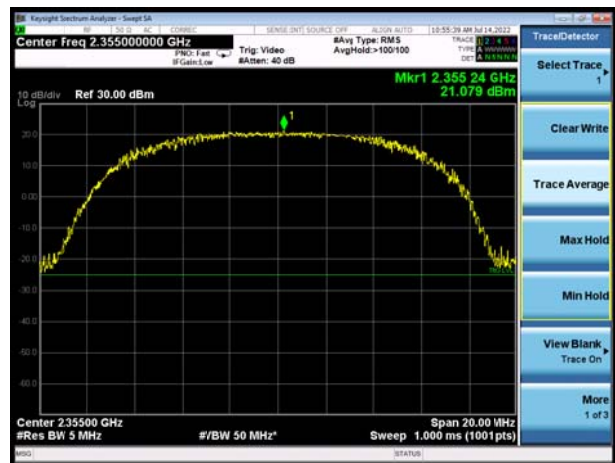




LTE Band 40 Subset 2 QPSK 5MHz CH-Low



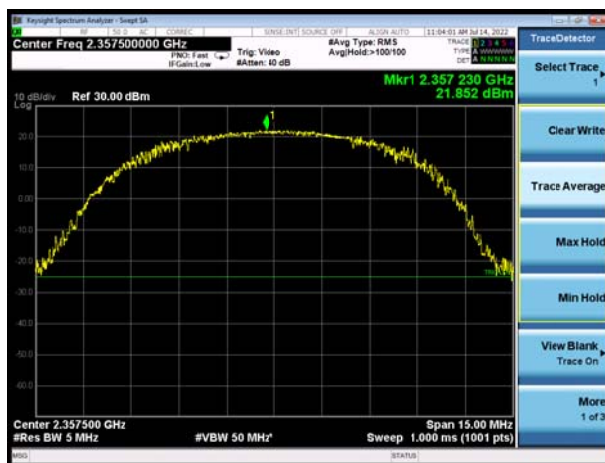
LTE Band 40 Subset 2 QPSK 10MHz



LTE Band 40 Subset 2 QPSK 5MHz CH-Middle

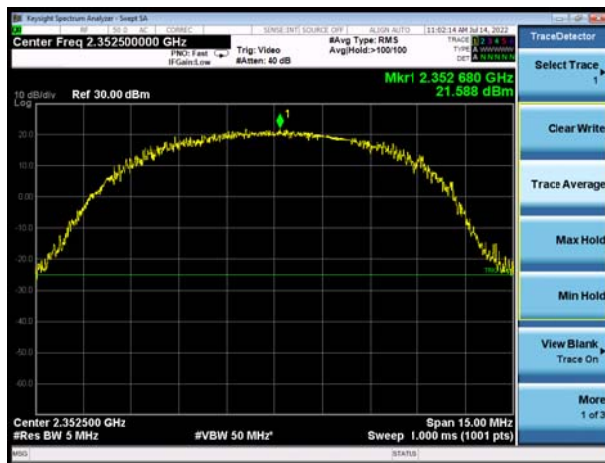


LTE Band 40 Subset 2 QPSK 5MHz CH-High

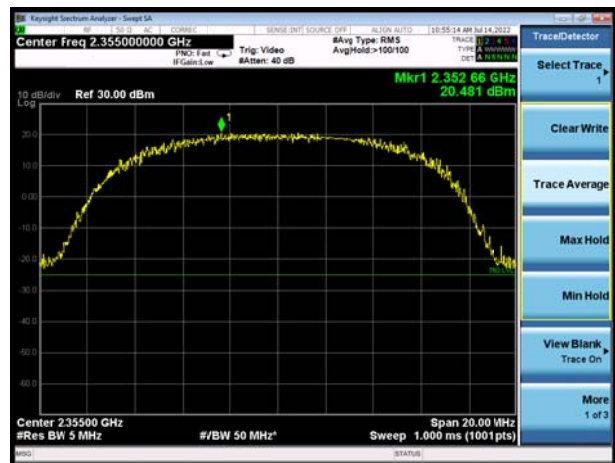




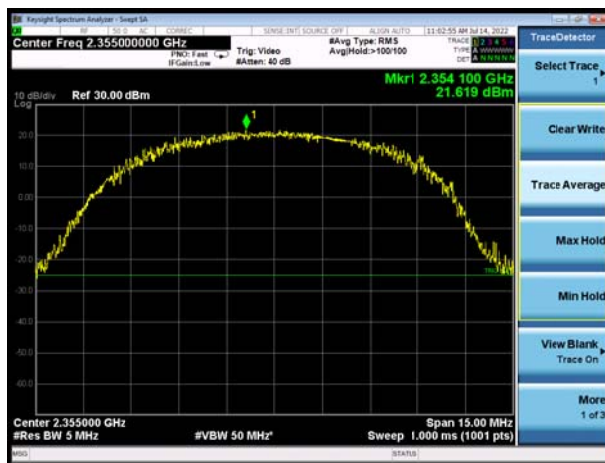
LTE Band 40 Subset 2 16QAM 5MHz CH-Low



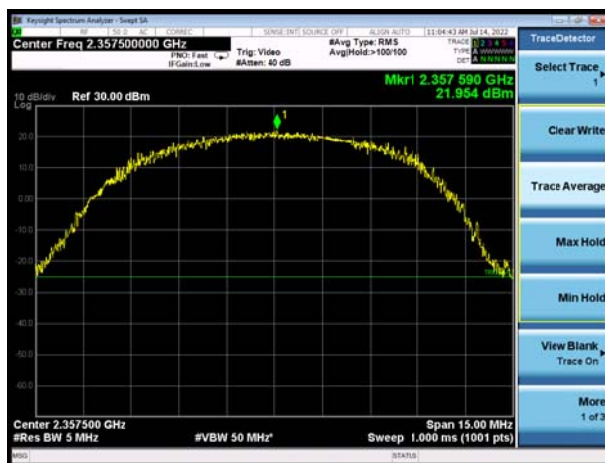
LTE Band 40 Subset 2 16QAM 10MHz



LTE Band 40 Subset 2 16QAM 5MHz CH-Middle



LTE Band 40 Subset 2 16QAM 5MHz CH-High



6.2 Occupied Bandwidth

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
WCDMA Band IV (RMC)	1312	1712.4	4.159	4.679
	1413	1732.6	4.188	4.698
	1513	1752.6	4.167	4.659

LTE Band 4						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	19957	1710.7	1.093	1.265
			20175	1732.5	1.092	1.291
			20393	1754.3	1.094	1.305
		3	19965	1711.5	2.698	2.900
			20175	1732.5	2.690	2.910
			20385	1753.5	2.689	2.912
		5	19975	1712.5	4.506	4.884
			20175	1732.5	4.507	4.886
			20375	1752.5	4.515	4.894
		10	20000	1715	9.012	9.737
			20175	1732.5	8.980	9.705
			20350	1750	8.974	9.707
		15	20025	1717.5	13.465	15.179
			20175	1732.5	13.467	14.378
			20325	1747.5	13.430	14.517
		20	20050	1720	18.024	19.338
			20175	1732.5	18.021	19.153
			20300	1745	17.957	19.195
	16QAM	1.4	19957	1710.7	1.090	1.277
			20175	1732.5	1.092	1.295
			20393	1754.3	1.087	1.272
		3	19965	1711.5	2.690	2.902
			20175	1732.5	2.694	2.904
			20385	1753.5	2.690	2.927
		5	19975	1712.5	4.508	4.869
			20175	1732.5	4.511	4.919
			20375	1752.5	4.497	4.899
		10	20000	1715	8.971	9.686



			20175	1732.5	9.003	9.755
			20350	1750	8.976	9.745
		15	20025	1717.5	13.446	14.586
			20175	1732.5	13.471	14.443
			20325	1747.5	13.463	14.420
		20	20050	1720	18.035	19.448
			20175	1732.5	17.993	19.444
			20300	1745	17.936	19.270

LTE Band 7						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	20775	2502.5	4.495	4.917
			21100	2535	4.505	4.889
			21425	2567.5	4.517	4.891
		10	20800	2505	8.989	9.745
			21100	2535	9.008	9.761
			21400	2565	8.989	9.789
		15	20825	2507.5	13.447	14.479
			21100	2535	13.488	14.617
			21375	2562.5	13.433	14.410
		20	20850	2510	17.957	19.101
			21100	2535	17.985	19.263
			21350	2560	17.954	19.404
	16QAM	5	20775	2502.5	4.513	4.885
			21100	2535	4.505	4.862
			21425	2567.5	4.519	4.922
		10	20800	2505	8.989	9.669
			21100	2535	8.971	9.666
			21400	2565	8.996	9.759
		15	20825	2507.5	13.477	14.360
			21100	2535	13.507	14.551
			21375	2562.5	13.488	14.508
		20	20850	2510	17.913	19.172
			21100	2535	18.009	19.374
			21350	2560	18.002	19.365



LTE Band 38						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	37775	2572.5	4.492	4.826
			38000	2595	4.497	4.854
			38225	2617.5	4.507	5.083
		10	37800	2575	8.994	9.599
			38000	2595	8.968	9.937
			38200	2615	8.972	10.001
		15	37825	2577.5	13.504	14.728
			38000	2595	13.474	14.497
			38175	2612.5	13.465	15.137
		20	37850	2580	17.995	19.234
			38000	2595	17.970	19.198
			38150	2610	17.979	19.142
	16QAM	5	37775	2572.5	4.497	4.888
			38000	2595	4.506	4.916
			38225	2617.5	4.507	4.861
		10	37800	2575	8.990	9.676
			38000	2595	9.008	9.651
			38200	2615	8.990	9.645
		15	37825	2577.5	13.448	14.729
			38000	2595	13.457	14.465
			38175	2612.5	13.508	14.526
		20	37850	2580	18.013	19.585
			38000	2595	17.977	19.723
			38150	2610	17.965	19.218

LTE band 40 subset 1						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	38725	2307.5	4.519	5.098
			38750	2310	4.521	5.129
			38775	2312.5	4.517	5.109
	16QAM	10	38750	2310	8.974	9.966
		5	38725	2307.5	4.517	5.035
			38750	2310	4.532	5.044
			38775	2312.5	4.51	5.423
		10	38750	2310	8.999	9.745

LTE band 40 subset 2						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	39175	2352.5	4.507	5.006
			39200	2355	4.523	5.008
			39225	2357.5	4.531	5.069
	16QAM	10	39200	2355	9.024	10.013
		5	39175	2352.5	4.505	5.074
			39200	2355	4.513	5.227
			39225	2357.5	4.516	5.098
		10	39200	2355	9.018	11.355

LTE Band 41						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	40065	2537.5	4.502	4.833
			40640	2595	4.510	4.922
			41215	2652.5	4.512	4.883
		10	40090	2540	9.007	10.012
			40640	2595	8.990	9.697
			41190	2650	8.989	9.864
		15	40115	2542.5	13.467	14.800
			40640	2595	13.504	15.130
			41165	2647.5	13.455	14.445
		20	40140	2545	17.929	19.594
			40640	2595	17.912	19.898
			41140	2645	17.912	19.470
	16QAM	5	40065	2537.5	4.509	4.944
			40640	2595	4.501	4.892
			41215	2652.5	4.489	4.921
		10	40090	2540	8.981	9.915
			40640	2595	9.001	9.571
			41190	2650	9.010	10.108
		15	40115	2542.5	13.485	14.499
			40640	2595	13.509	14.305
			41165	2647.5	13.462	14.623
		20	40140	2545	17.989	19.483
			40640	2595	17.958	20.082
			41140	2645	17.963	19.569



WCDMA Band IV CH-Low



WCDMA Band IV CH Middle



WCDMA Band IV CH High





LTE Band 4 QPSK 1.4MHz CH-Low



LTE Band 4 QPSK 3MHz CH-Low



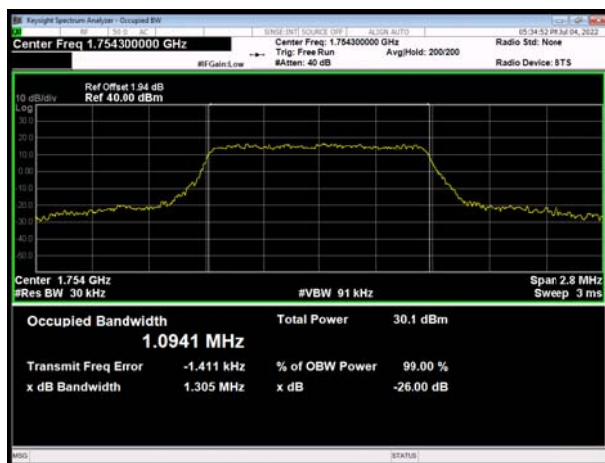
LTE Band 4 QPSK 1.4MHz CH-Middle



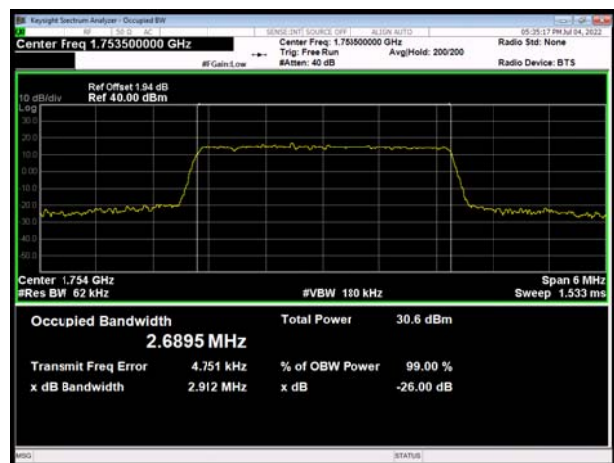
LTE Band 4 QPSK 3MHz CH-Middle



LTE Band 4 QPSK 1.4MHz CH-High

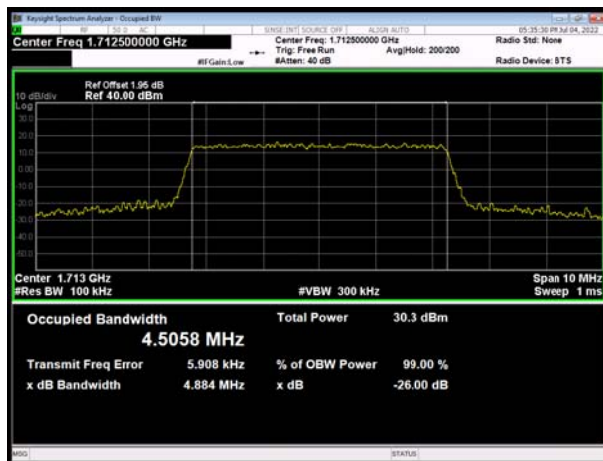


LTE Band 4 QPSK 3MHz CH-High

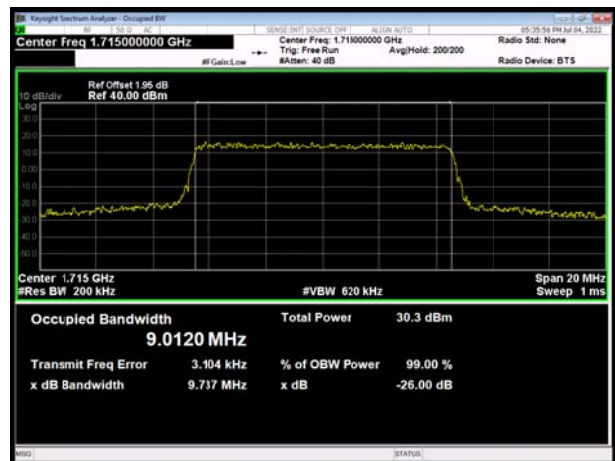




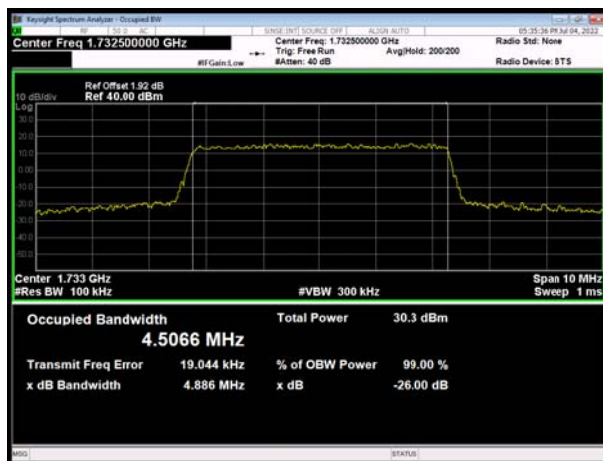
LTE Band 4 QPSK 5MHz CH-Low



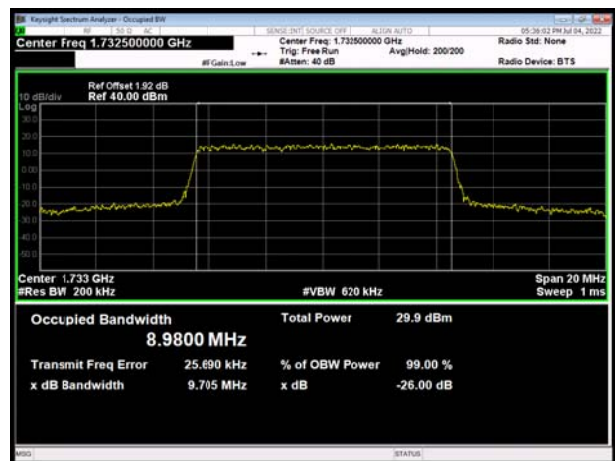
LTE Band 4 QPSK 10MHz CH-Low



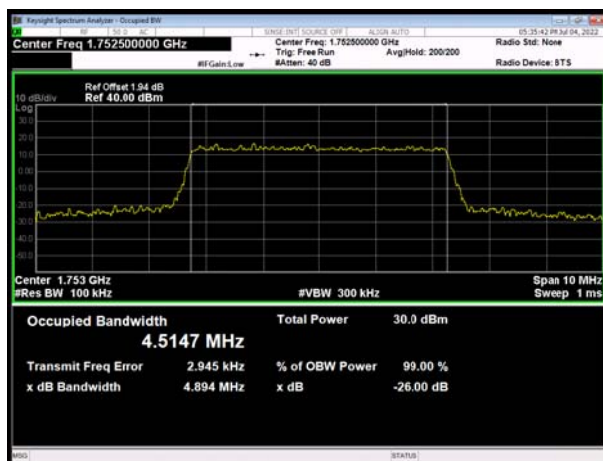
LTE Band 4 QPSK 5MHz CH-Middle



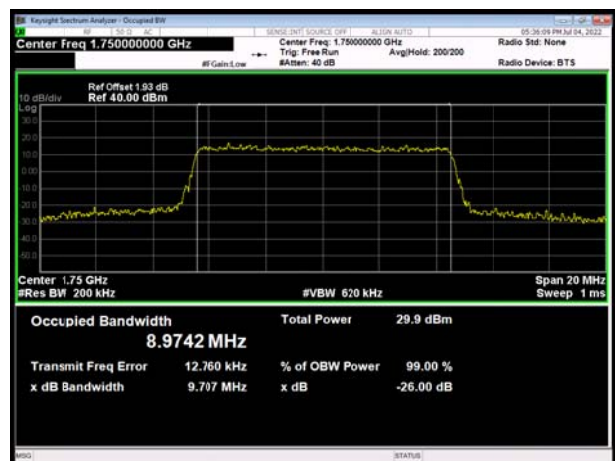
LTE Band 4 QPSK 10MHz CH-Middle



LTE Band 4 QPSK 5MHz CH-High

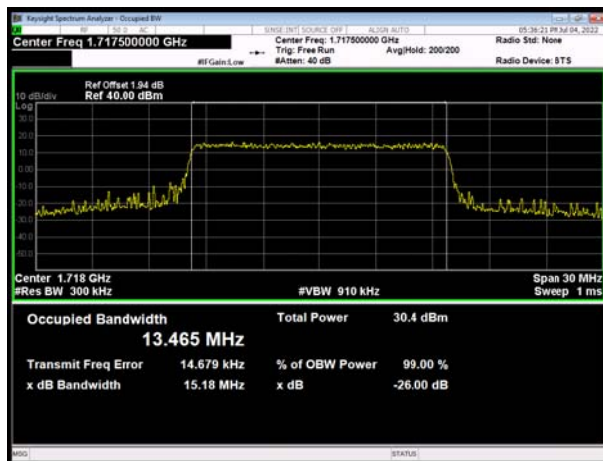


LTE Band 4 QPSK 10MHz CH-High

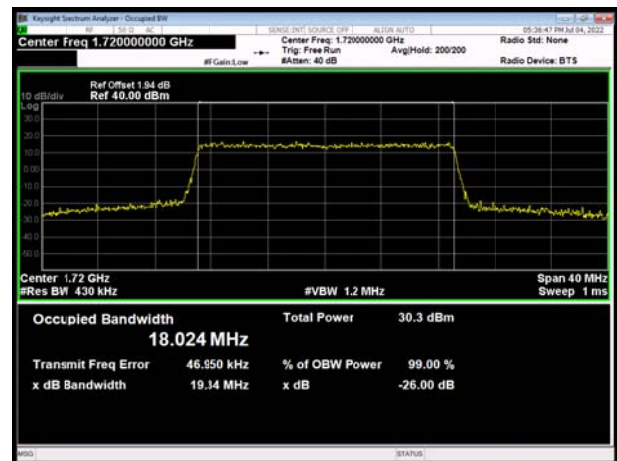




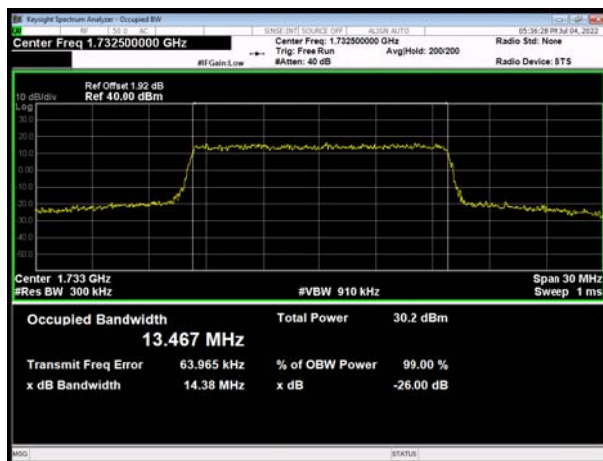
LTE Band 4 QPSK 15MHz CH-Low



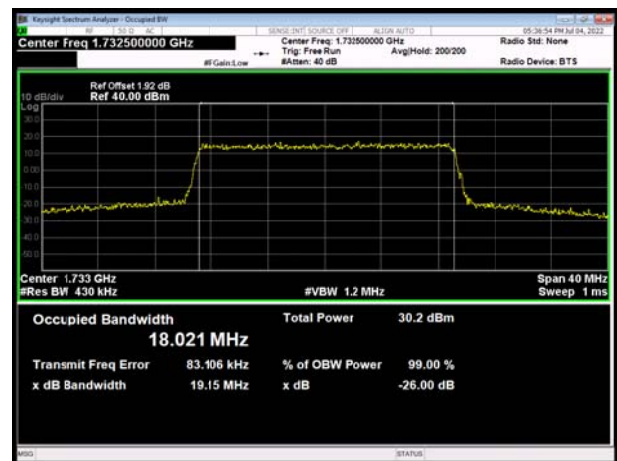
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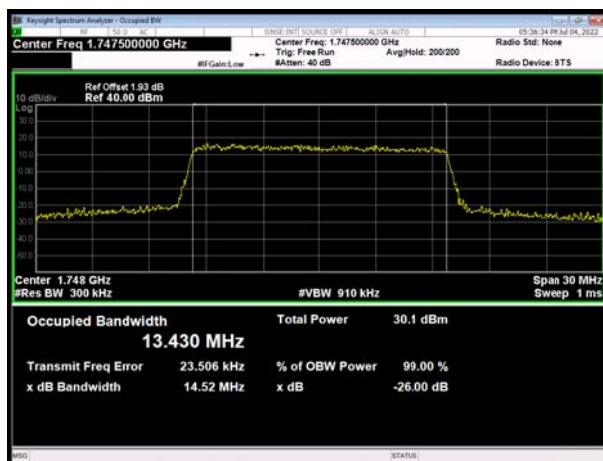
LTE Band 4 QPSK 15MHz CH-Middle



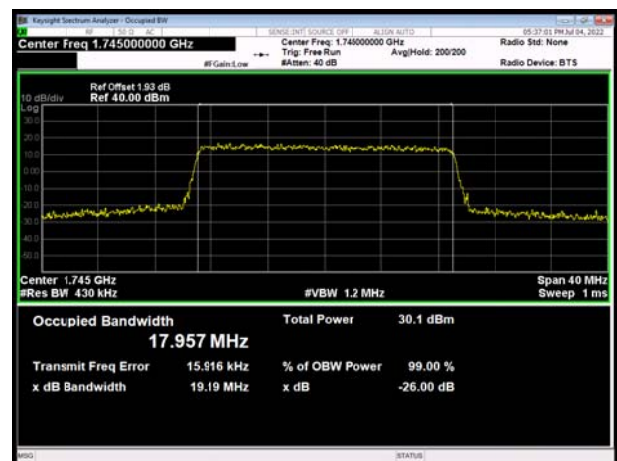
LTE Band 4 QPSK 20MHz CH-Middle



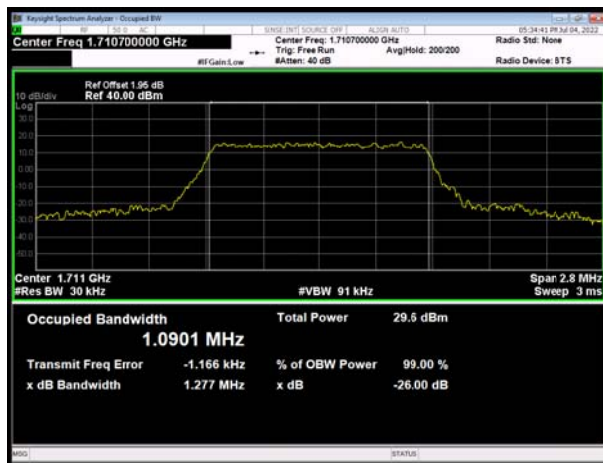
LTE Band 4 QPSK 15MHz CH-High



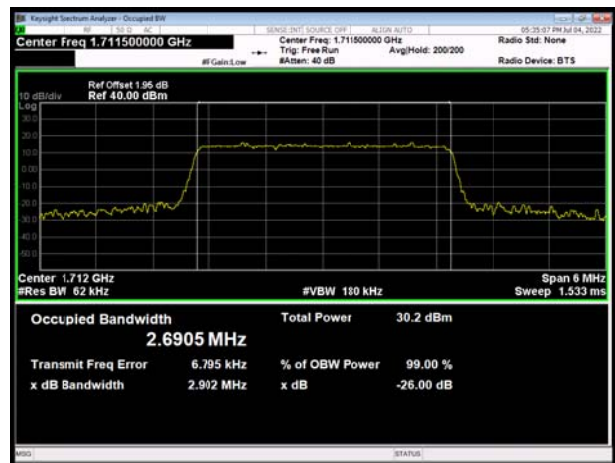
LTE Band 4 QPSK 20MHz CH-High



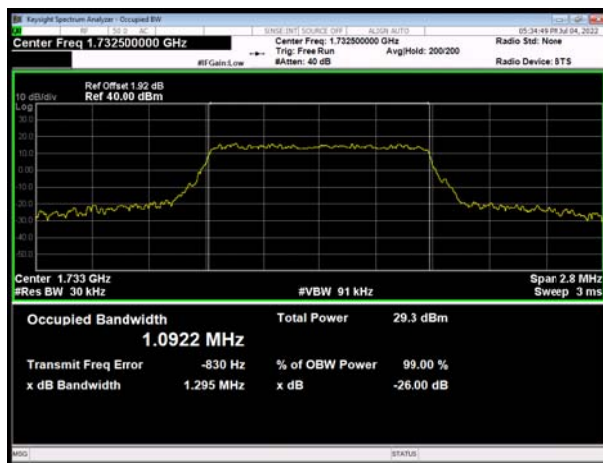
LTE Band 4 16QAM 1.4MHz CH-Low



LTE Band 4 16QAM 3MHz CH-Low



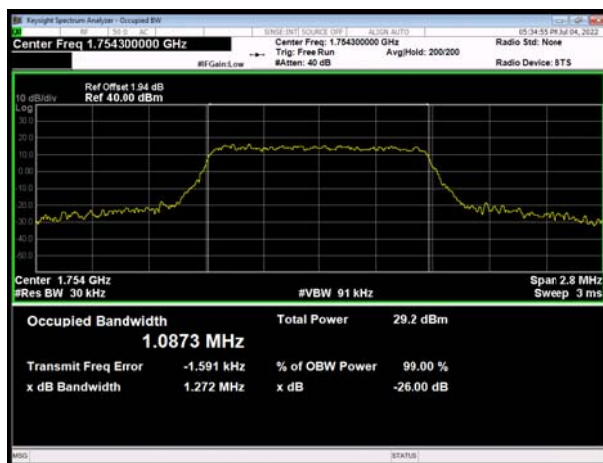
LTE Band 4 16QAM 1.4MHz CH-Middle



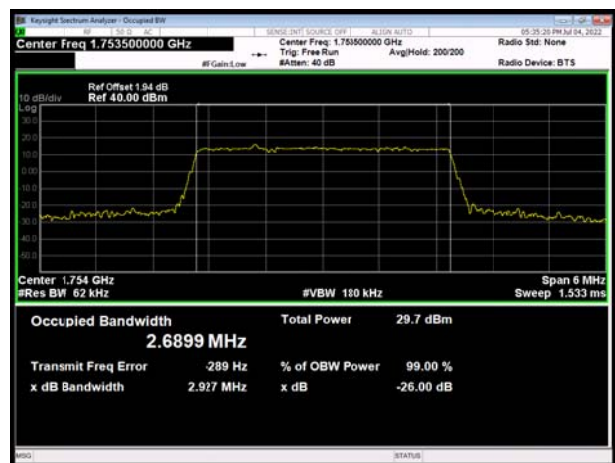
LTE Band 4 16QAM 3MHz CH-Middle



LTE Band 4 16QAM 1.4MHz CH-High

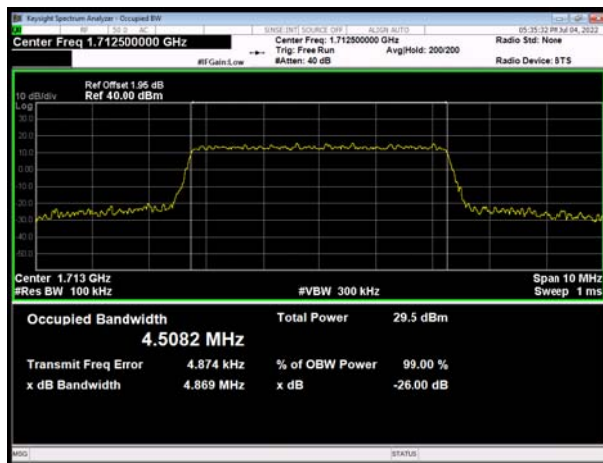


LTE Band 4 16QAM 3MHz CH-High





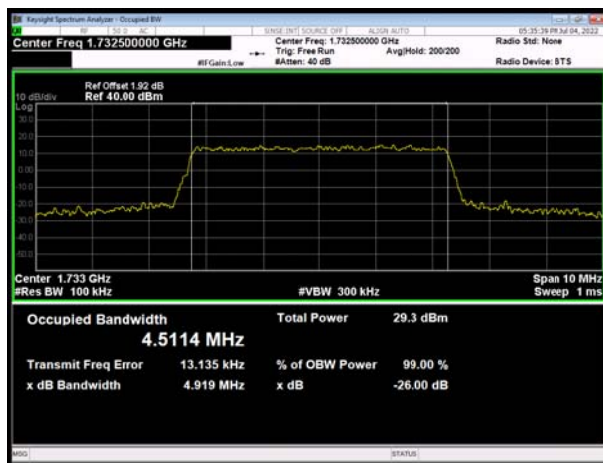
LTE Band 4 16QAM 5MHz CH-Low



LTE Band 4 16QAM 10MHz CH-Low



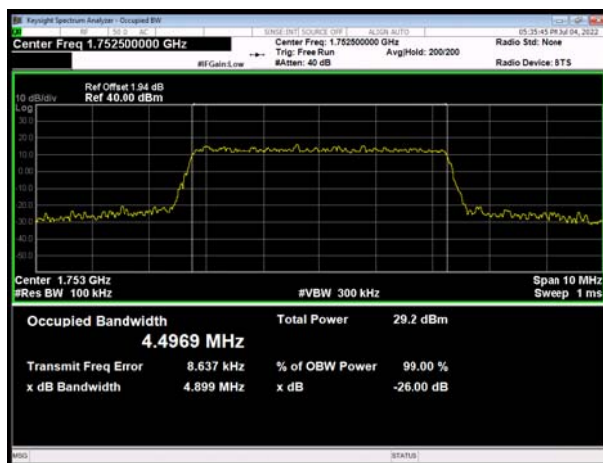
LTE Band 4 16QAM 5MHz CH-Middle



LTE Band 4 16QAM 10MHz CH-Middle



LTE Band 4 16QAM 5MHz CH-High

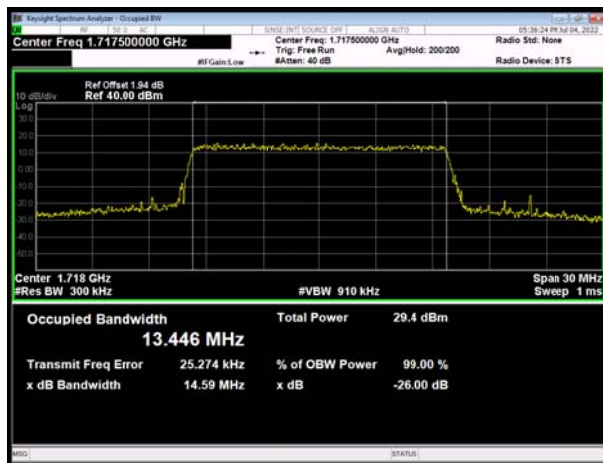


LTE Band 4 16QAM 10MHz CH-High

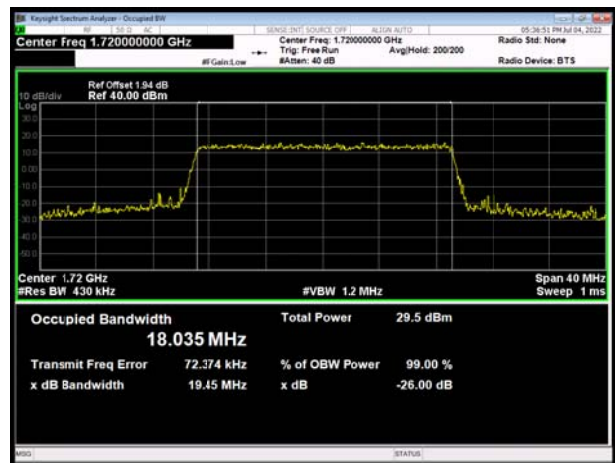




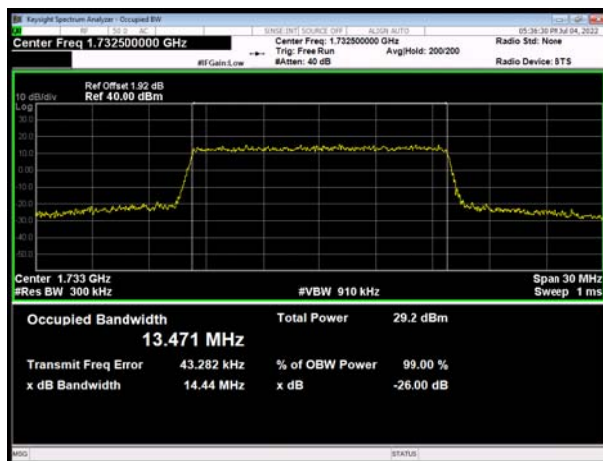
LTE Band 4 16QAM 15MHz CH-Low



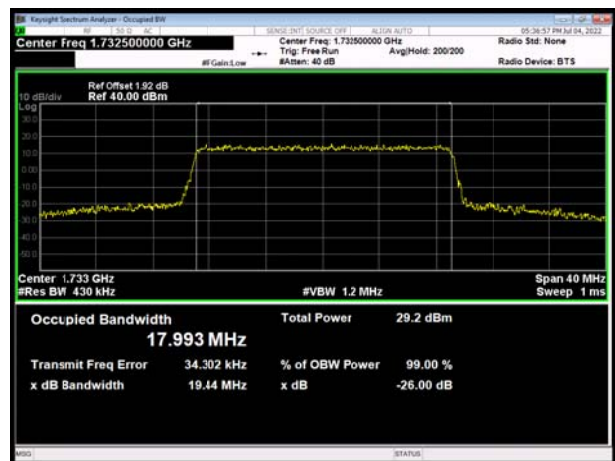
LTE Band 4 16QAM 20MHz CH-Low



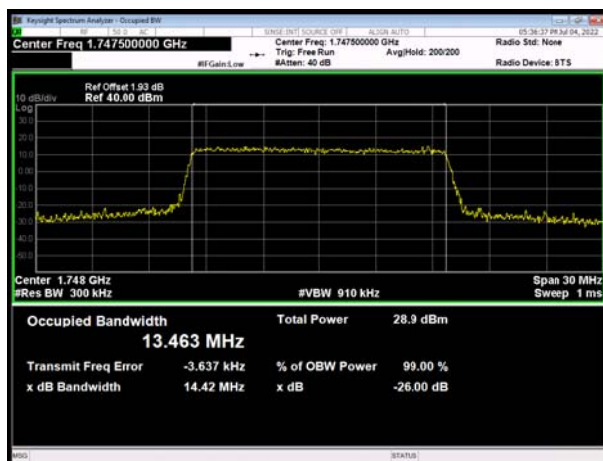
LTE Band 4 16QAM 15MHz CH-Middle



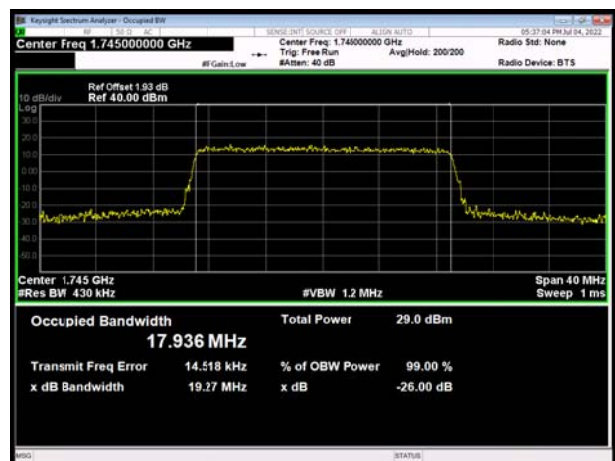
LTE Band 4 16QAM 20MHz CH-Middle



LTE Band 4 16QAM 15MHz CH-High

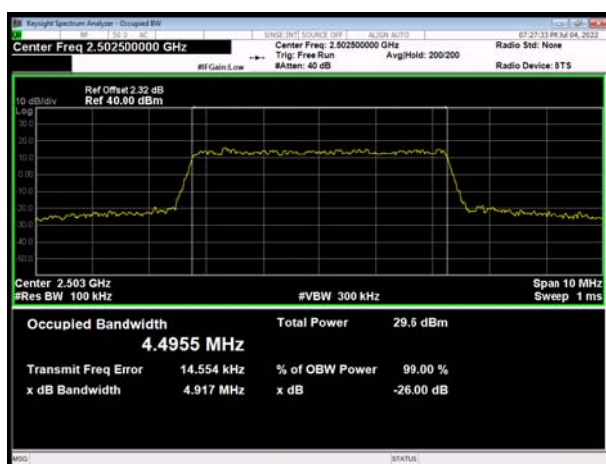


LTE Band 4 16QAM 20MHz CH-High

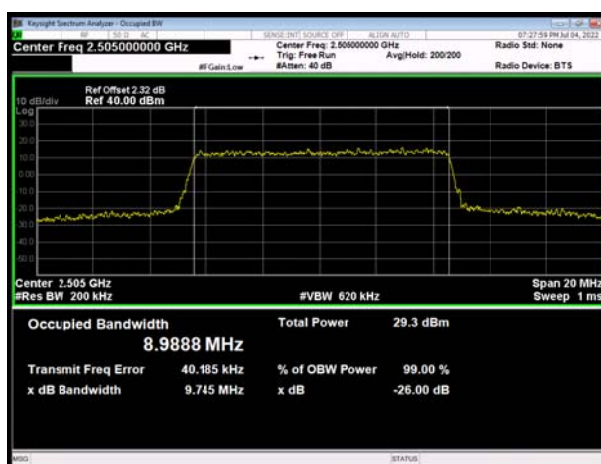




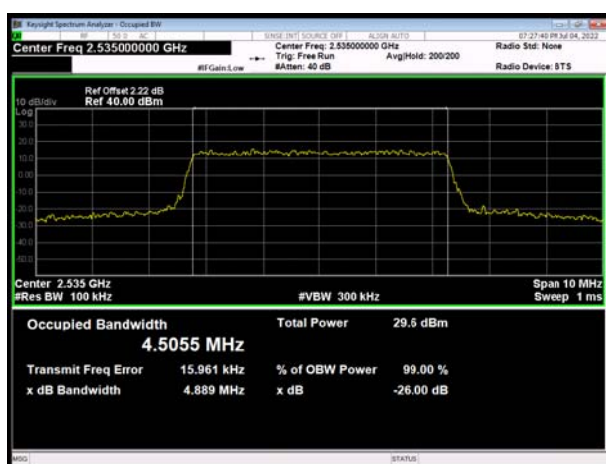
LTE Band 7 QPSK 5MHz CH-Low



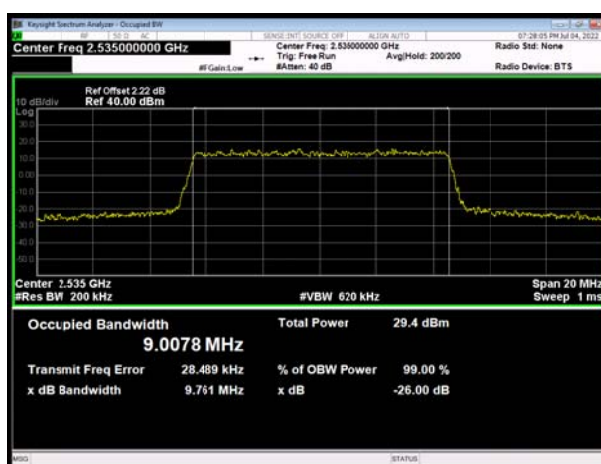
LTE Band 7 QPSK 10MHz CH-Low



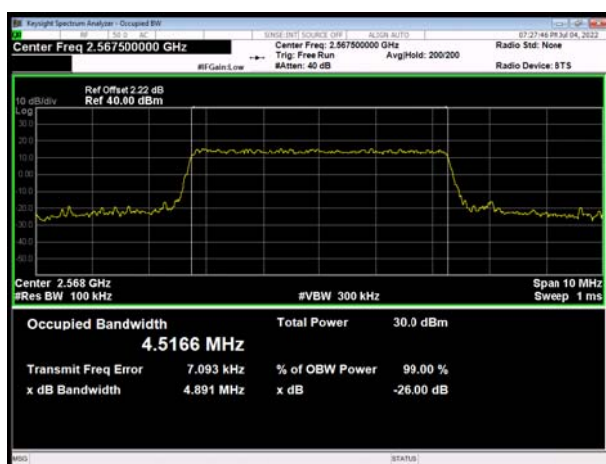
LTE Band 7 QPSK 5MHz CH-Middle



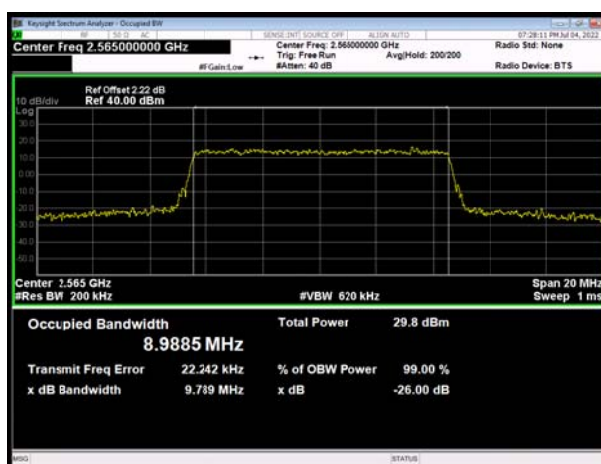
LTE Band 7 QPSK 10MHz CH-Middle



LTE Band 7 QPSK 5MHz CH-High

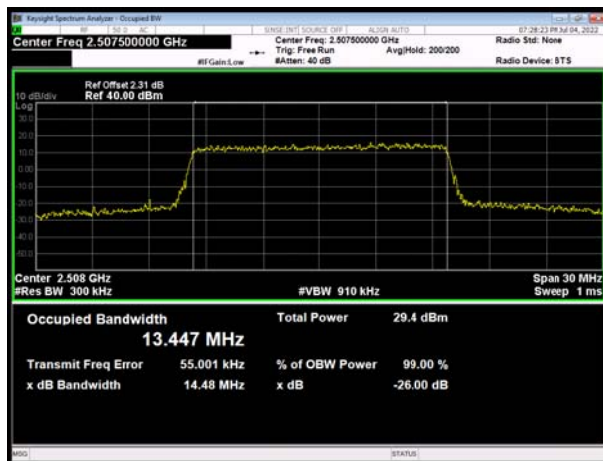


LTE Band 7 QPSK 10MHz CH-High

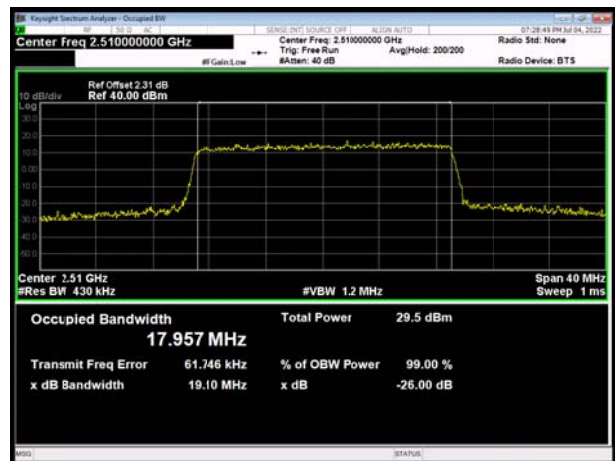




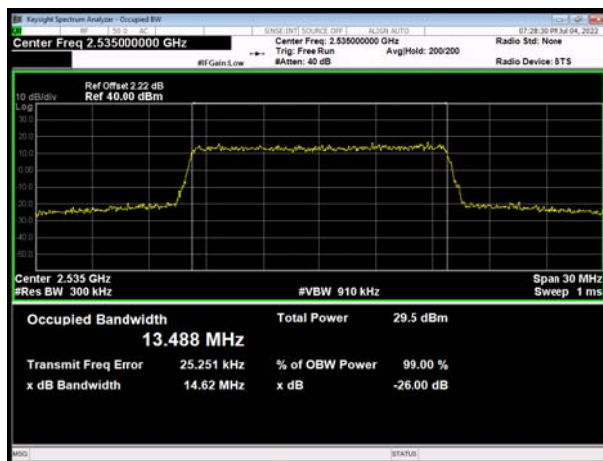
LTE Band 7 QPSK 15MHz CH-Low



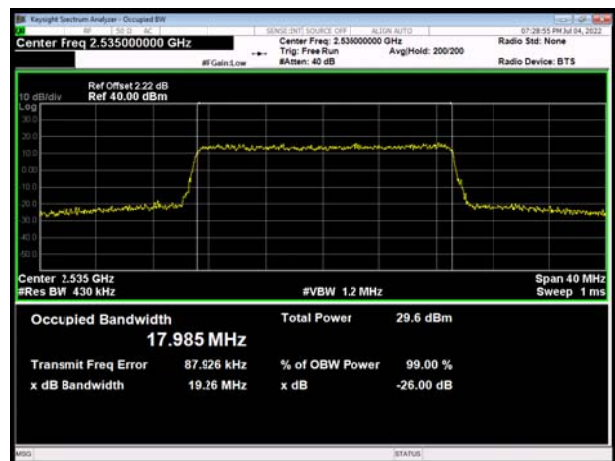
LTE Band 7 QPSK 20MHz CH-Low



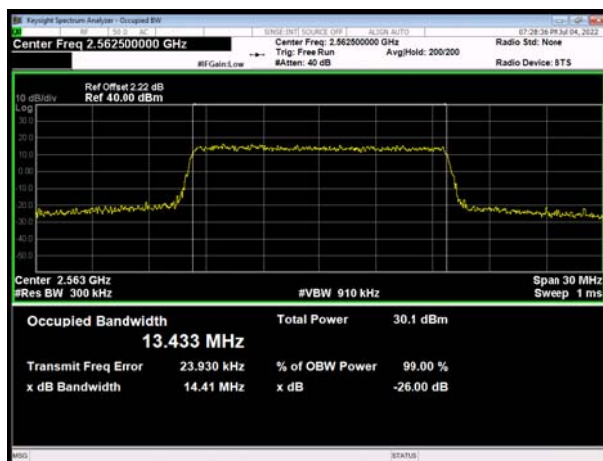
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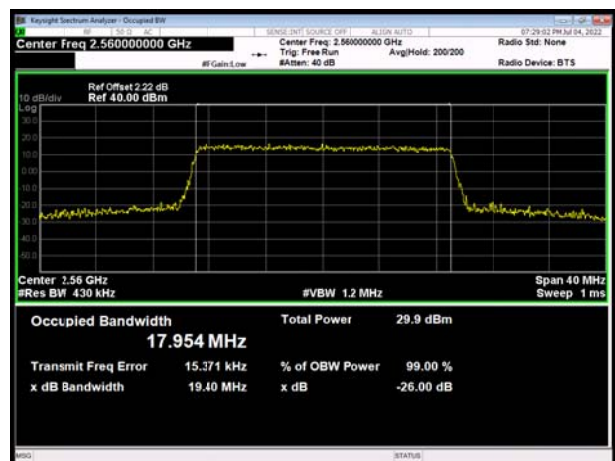
LTE Band 7 QPSK 20MHz CH-Middle



LTE Band 7 QPSK 15MHz CH-High

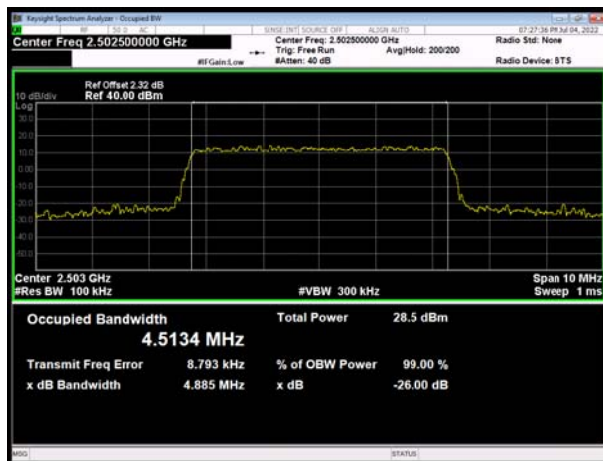


LTE Band 7 QPSK 20MHz CH-High

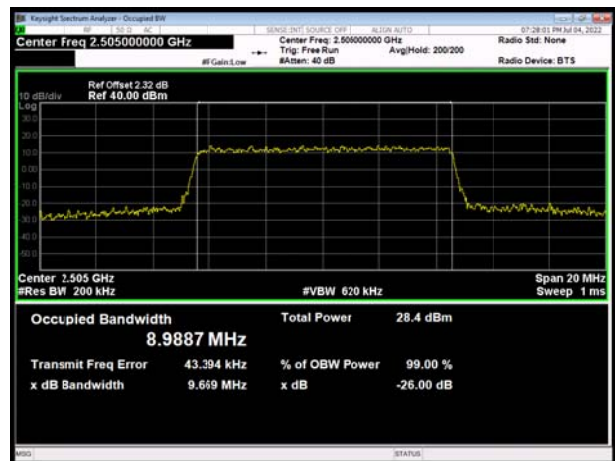




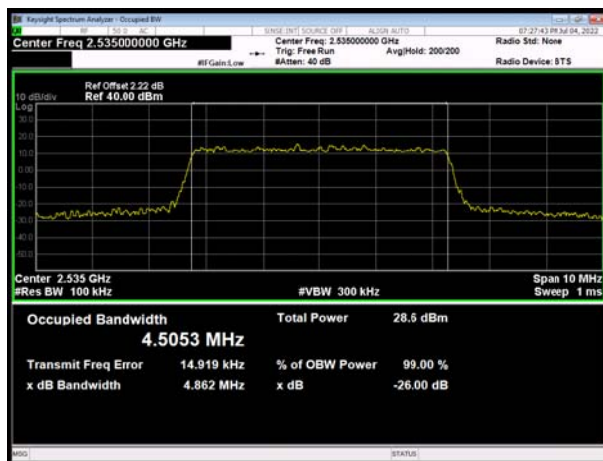
LTE Band 7 16QAM 5MHz CH-Low



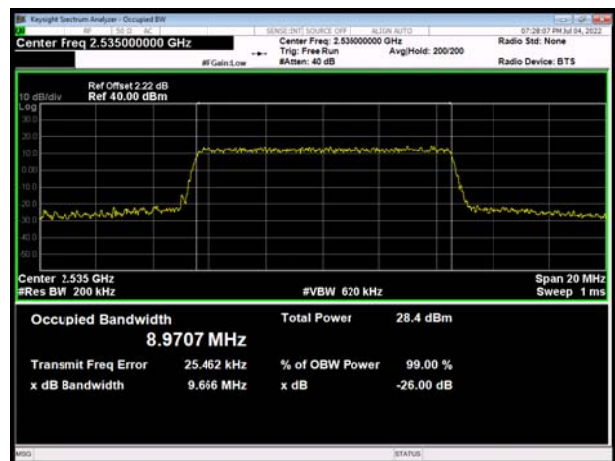
LTE Band 7 16QAM 10MHz CH-Low



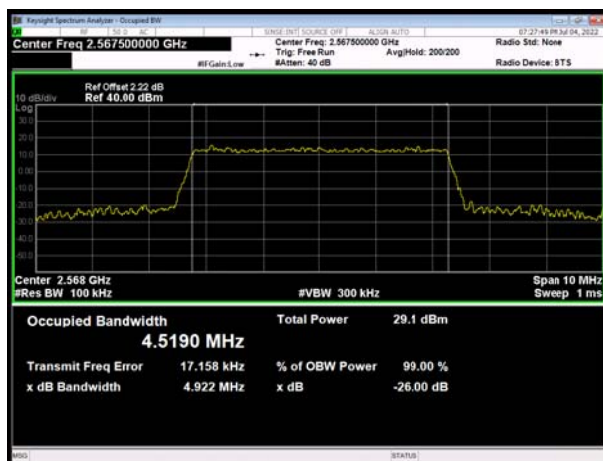
LTE Band 7 16QAM 5MHz CH-Middle



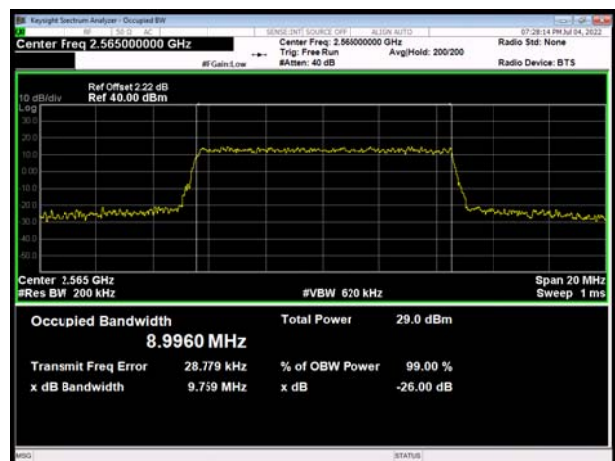
LTE Band 7 16QAM 10MHz CH-Middle



LTE Band 7 16QAM 5MHz CH-High

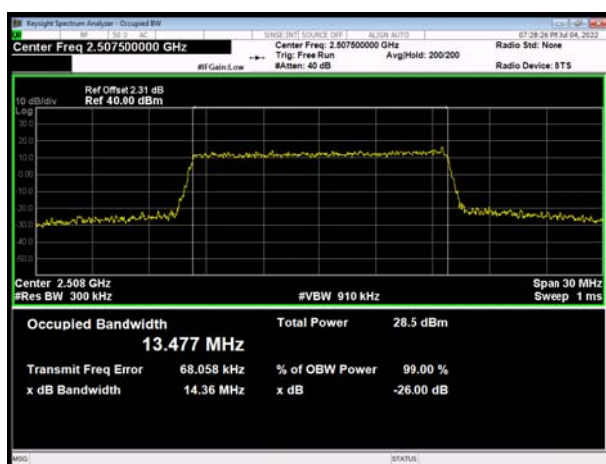


LTE Band 7 16QAM 10MHz CH-High

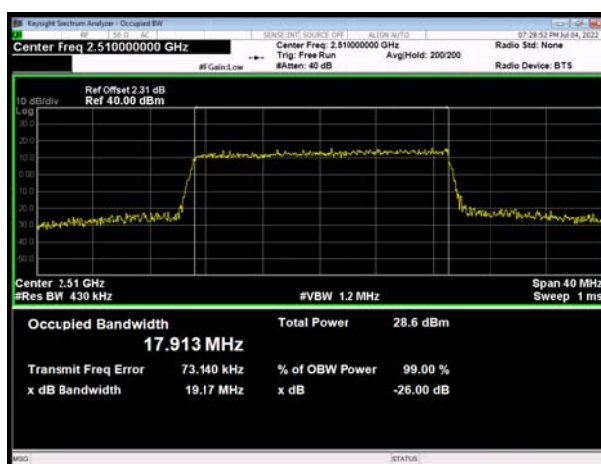




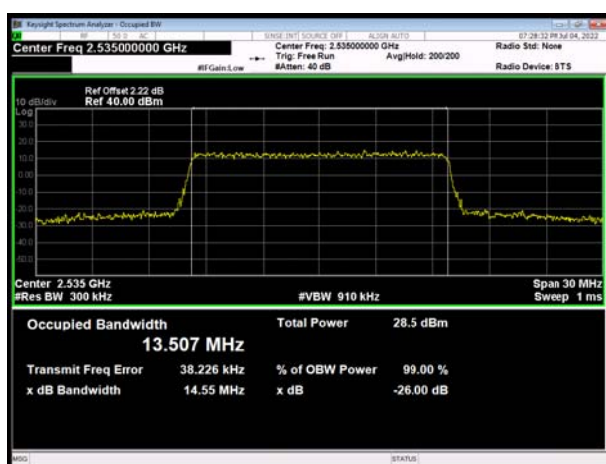
LTE Band 7 16QAM 15MHz CH-Low



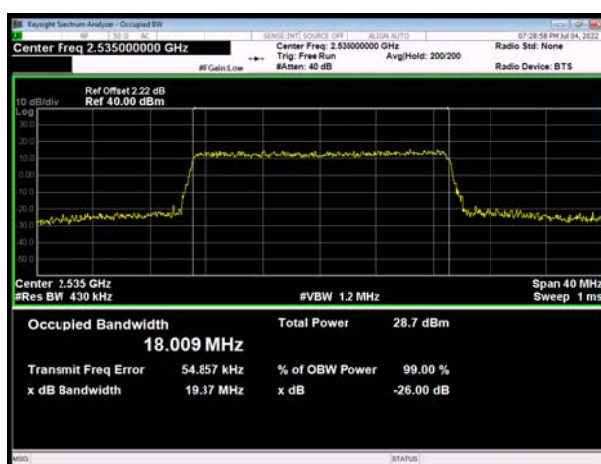
LTE Band 7 16QAM 20MHz CH-Low



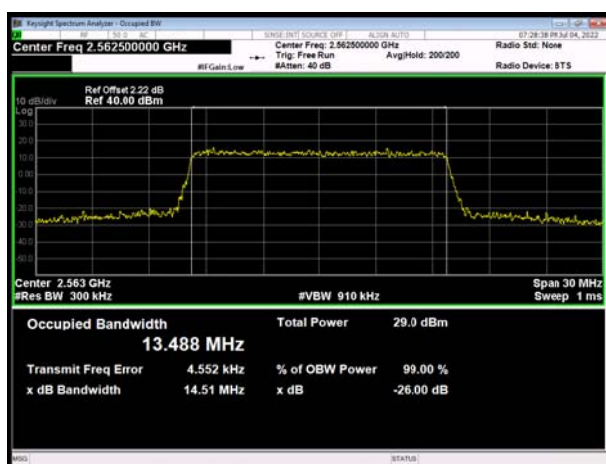
LTE Band 7 16QAM 15MHz CH-Middle



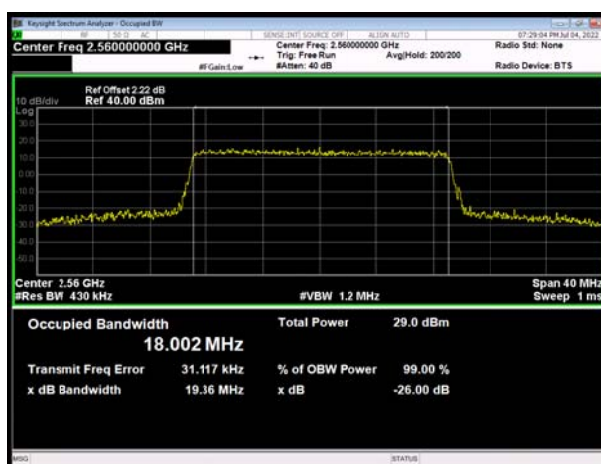
LTE Band 7 16QAM 20MHz CH-Middle



LTE Band 7 16QAM 15MHz CH-High

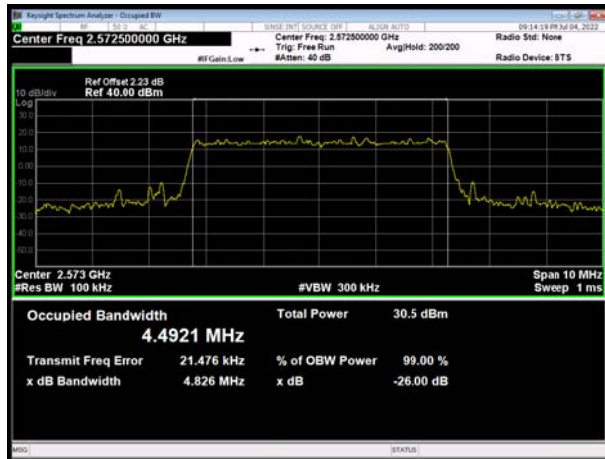


LTE Band 7 16QAM 20MHz CH-High

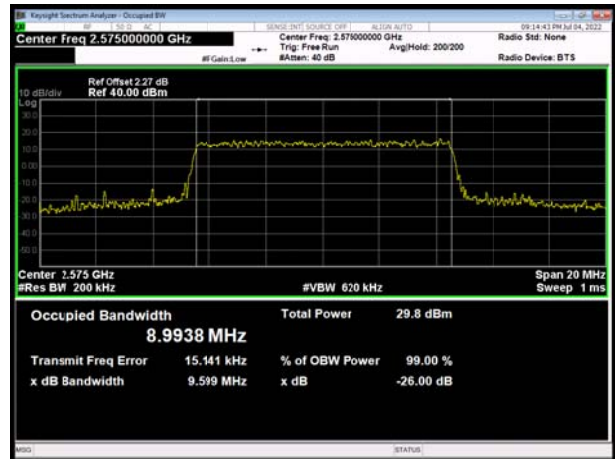




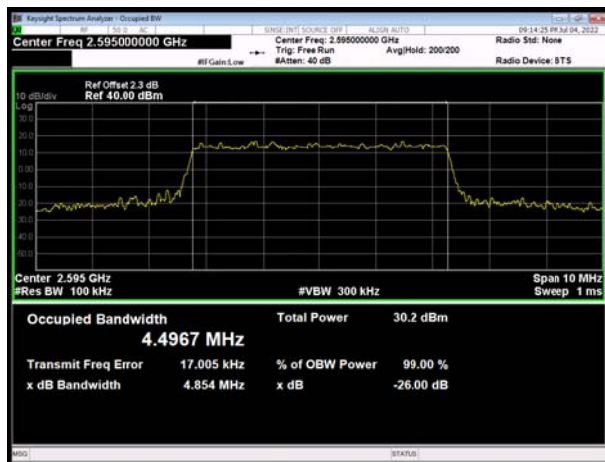
LTE Band 38 QPSK 5MHz CH-Low



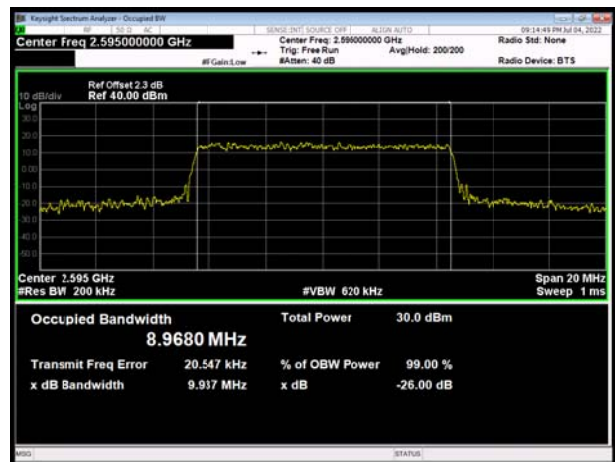
LTE Band 38 QPSK 10MHz CH-Low



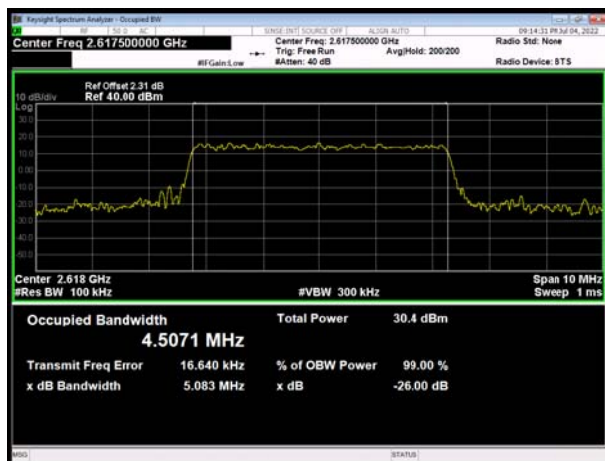
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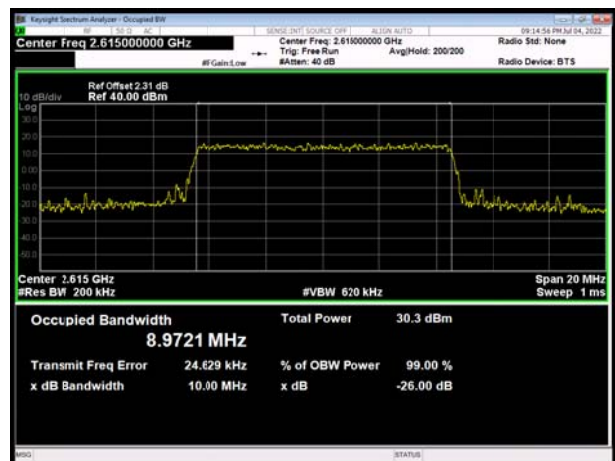
LTE Band 38 QPSK 10MHz CH-Middle



LTE Band 38 QPSK 5MHz CH-High

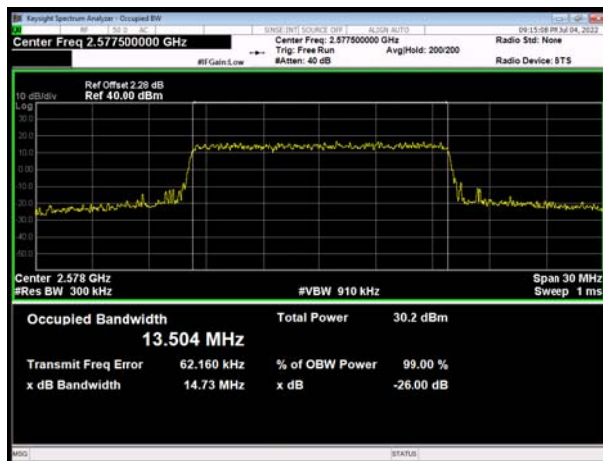


LTE Band 38 QPSK 10MHz CH-High

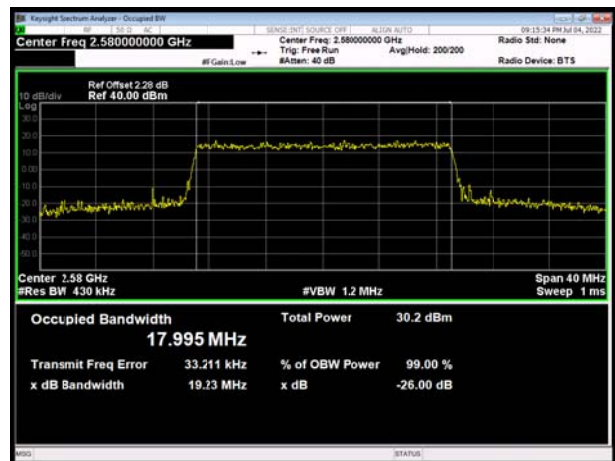




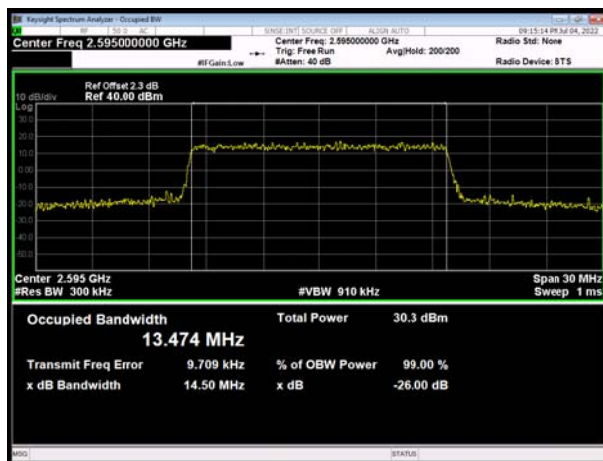
LTE Band 38 QPSK 15MHz CH-Low



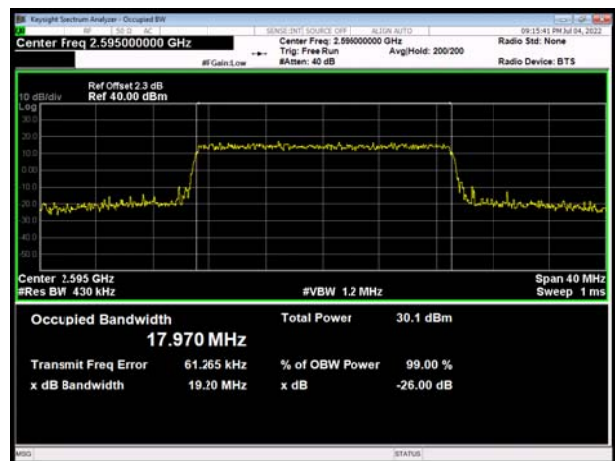
LTE Band 38 QPSK 20MHz CH-Low



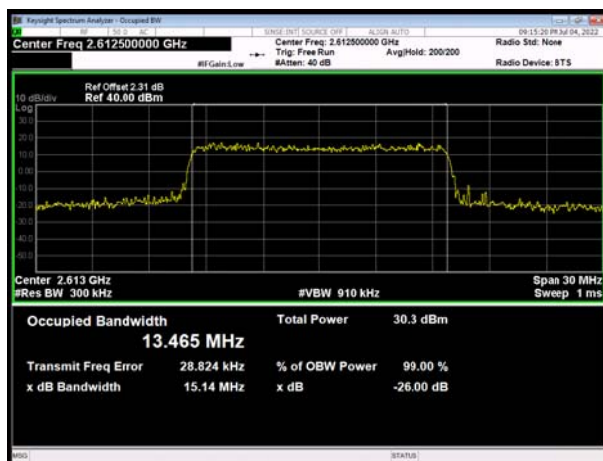
LTE Band 38 QPSK 15MHz CH-Middle



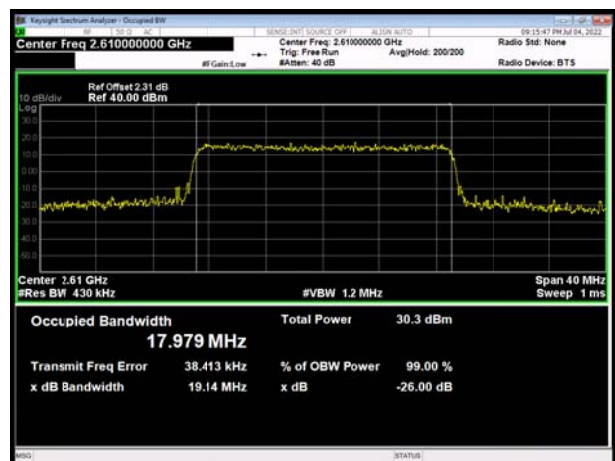
LTE Band 38 QPSK 20MHz CH-Middle



LTE Band 38 QPSK 15MHz CH-High



LTE Band 38 QPSK 20MHz CH-High

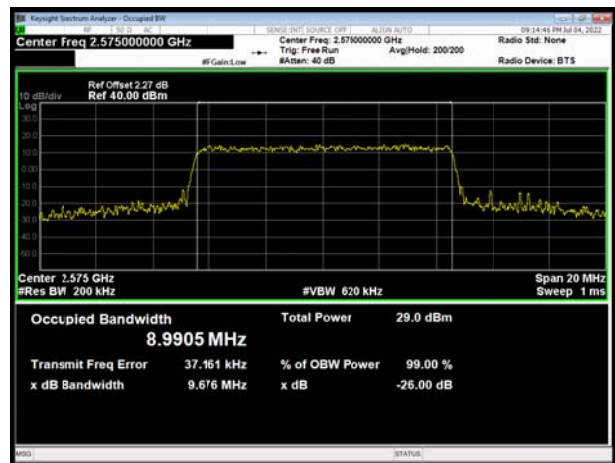




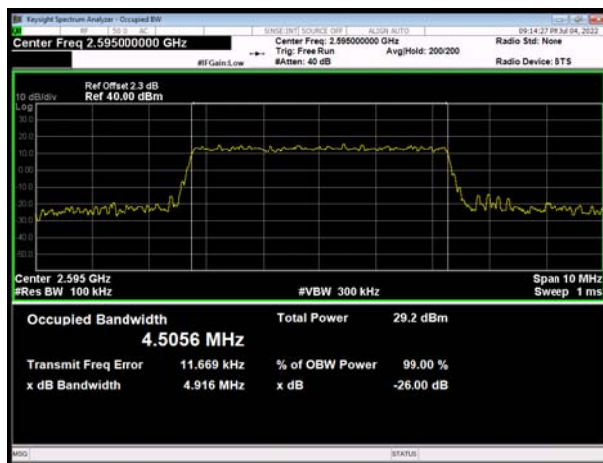
LTE Band 38 16QAM 5MHz CH-Low



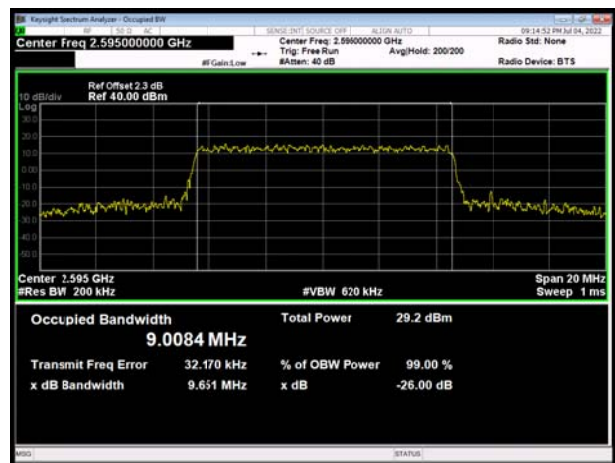
LTE Band 38 16QAM 10MHz CH-Low



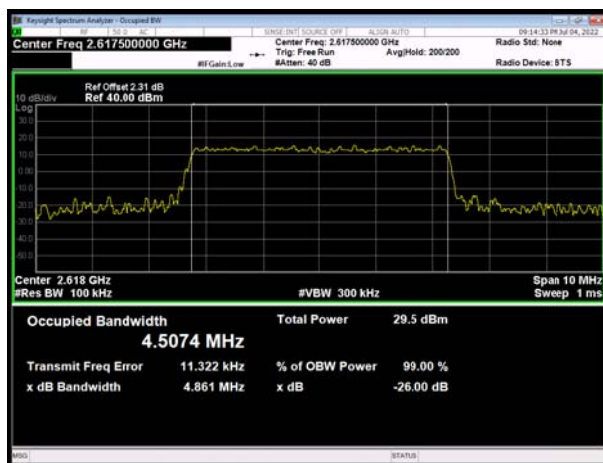
LTE Band 38 16QAM 5MHz CH-Middle



LTE Band 38 16QAM 10MHz CH-Middle



LTE Band 38 16QAM 5MHz CH-High



LTE Band 38 16QAM 10MHz CH-High

