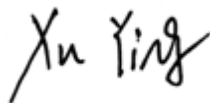


RF TEST REPORT

Applicant MeiG Smart Technology Co., Ltd
FCC ID 2APJ4-MT504
Product 4G Mobile WiFi
Brand MEIGLink
Model MT504;
MT5XX (XX can be 05-19, 61-64)
Report No. R2209A0873-R3V2
Issue Date February 21, 2023

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2022)/ FCC CFR47 Part 27C (2022)**. 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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Approved by: Xu Kai

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Version	Revision description	Issue Date
Rev.0	Initial issue of report.	February 3, 2023
Rev.1	Update information.	February 9, 2023
Rev.2	Update data.	February 21, 2023
Note: This revised report (Report No.: R2209A0873-R3V2) supersedes and replaces the previously issued report (Report No.: R2209A0873-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) (3)	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) (3)	PASS
7	Radiated Spurious Emission	2.1053 /27.53(h) /27.53(m) /27.53(a) (3)	PASS

Date of Testing: October 12, 2022 ~ December 4, 2022

Date of Sample Received: October 10, 2022

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

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

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

1 Test Laboratory

1.1 Notes of the Test Report

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

1.2. Test facility

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

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

A2LA (Certificate Number: 3857.01)

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

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
 Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
 City: Shanghai
 Post code: 201201
 Country: P. R. China
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 Fax: +86-021-50791141/2/3-8000
 Website: <http://www.ta-shanghai.com>
 E-mail: xukai@ta-shanghai.com

2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	MeiG Smart Technology Co., Ltd
Applicant address	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen, China.
Manufacturer	MeiG Smart Technology Co., Ltd
Manufacturer address	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen, China.

2.2 General information

EUT Description		
Model	MT504; MT5XX (XX can be 05-19, 61-64)	
IMEI	864630067885086	
Hardware Version	MT562_MB_V1.00_B_PCB	
Software Version	MT562_EQ001_5F3270E_221129_T18	
Power Supply	AC Adapter/ Battery	
Antenna Type	PIFA Antenna	
Antenna Gain	Band	Gain
	WCDMA Band IV	1.84 dBi
	LTE Band 4	1.84 dBi
	LTE Band 7	0.19 dBi
	LTE Band 38	0.19 dBi
	LTE Band 40 Subset 1	0.46 dBi
	LTE Band 40 Subset 2	0.46 dBi
	LTE Band 41	0.19 dBi
LTE Band 66	1.84 dBi	
Test Mode(s)	WCDMA Band IV; LTE Band 4/7/38/40/41/66;	
Test Modulation	(WCDMA) BPSK, QPSK; (LTE) QPSK, 16QAM;	
HSDPA UE Category	8	
HSUPA UE Category	8	
LTE Category	6	
Maximum E.I.R.P./ E.R.P.	WCDMA Band IV:	24.16 dBm
	LTE Band 4:	25.92 dBm
	LTE Band 7:	23.86 dBm
	LTE Band 38:	23.66 dBm
	LTE Band 40 Subset 1:	23.71 dBm

			68.25 mW/MHz	
			109.52 mW/5MHz	
	LTE Band 40 Subset 2:			23.78 dBm
				113.03 mW/MHz
				190.02 mW/5MHz
	LTE Band 41:			23.52 dBm
LTE Band 66:			25.79 dBm	
Rated Power Supply Voltage	3.8V			
Operating Voltage	Minimum: 3.5V Maximum: 4.2V			
Operating Temperature	Lowest: 0°C Highest: +45°C			
Testing Temperature	Lowest: -30°C Highest: +50°C			
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	2496 ~ 2690	2496 ~ 2690	
	LTE Band 66	1710 ~ 1780	2110 ~ 2180	
EUT Accessory				
Adapter	Manufacturer: Dongguan Sunun Power Co., Ltd Model: SA68-050100U			
Battery	Manufacturer: Shenzhen Aerospace Electronic Co.,Ltd. Model: /			
USB Cable 1	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD Model: USB A/M TO MICRO USB 5P/M Black PVC(Data+charging) 55cm Cable, Shielded			
USB Cable 2	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD Model: USB A/M TO MICRO USB 5P/M Black PVC(charging) 55cm Cable, Shielded			
USB Cable 3	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD Model: USB A/M TO MICRO USB 5P/M Black PVC(Date+charging) 20cm Cable, Shielded			
USB Cable 4	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD Model: USB A/M TO MICRO USB 5P/M Black PVC(charging) 20cm Cable, Shielded			
USB Cable 5	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD Model: USB Type C to Micro USB(connetct MIFI) (Date+charging,OTG) 55cm Cable, Shielded			
USB Cable 6	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD Model: USB Type C to Micro USB(connect MIFI) (Date+charging,OTG)			

	100cm Cable, Shielded
USB Cable 7	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD Model: USB Type A to Micro USB(connect MIFI) (Date+charging) 100cm Cable, Shielded
USB Cable 8	Manufacturer: DONGGUAN GAOHANG ELECTRONIC CO.,LTD Model: USB Type C to Micro USB(connect MIFI) (Date+charging) 20cm Cable, Shielded
<p>Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.</p> <p>2. There is more than one USB cable, each one should be applied throughout the compliance test respectively, and however, only the worst case (USB cable 7) will be recorded in this report.</p> <p>3. MT504 and MT5XX (XX can be 05-19, 61-64) differ only in model number and the other is the same. The internal name of the XX range will be changed differently due to the consideration of different customer needs later. MT504 were tested in this report.</p>	

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 (2022)

FCC CFR47 Part 2 (2022)

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 (X axis, horizontal polarization for WCDMA Band; Z axis, vertical polarization for LTE Band) 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 DC-HSDPA
Occupied Bandwidth	RMC
Band Edge Compliance	RMC
Peak-to-Average Power Ratio	RMC
Frequency Stability	RMC
Spurious Emissions at Antenna Terminals	RMC
Radiated Spurious Emission	RMC

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

Subset 1/40 Subset 2/41/66:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM/ 64QAM	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	LTE 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	LTE 7	-	-	0	0	0	0	0	0	0	0	0	0	0	0
	LTE 38	-	-	0	0	0	0	0	0	0	0	0	0	0	0
	LTE 40 Subset 1	-	-	0	0	-	-	0	0	0	0	0	0	0	0
	LTE 40 Subset 2	-	-	0	0	-	-	0	0	0	0	0	0	0	0
	LTE 41	-	-	0	0	0	0	0	0	0	0	0	0	0	0
	LTE 66	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Occupied Bandwidth	LTE 4	0	0	0	0	0	0	0	0	-	-	0	0	0	0
	LTE 7	-	-	0	0	0	0	0	0	-	-	0	0	0	0
	LTE 38	-	-	0	0	0	0	0	0	-	-	0	0	0	0
	LTE 40 Subset 1	-	-	0	0	-	-	0	0	-	-	0	0	0	0
	LTE 40 Subset 2	-	-	0	0	-	-	0	0	-	-	0	0	0	0
	LTE 41	-	-	0	0	0	0	0	0	-	-	0	0	0	0
	LTE 66	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Band Edge Compliance	LTE 4	0	0	0	0	0	0	0	0	0	-	0	0	-	0
	LTE 7	-	-	0	0	0	0	0	0	0	-	0	0	-	0
	LTE 38	-	-	0	0	0	0	0	0	0	-	0	0	-	0
	LTE 40 Subset 1	-	-	0	0	-	-	0	0	0	-	0	0	-	0
	LTE 40 Subset 2	-	-	0	0	-	-	0	0	0	-	0	0	-	0
	LTE 41	-	-	0	0	0	0	0	0	0	-	0	0	-	0
	LTE 66	0	0	0	0	0	0	0	0	0	-	0	0	-	0
Peak-to-Average Power Ratio	LTE 4	0	0	0	0	0	0	0	0	-	-	0	0	0	0
	LTE 7	-	-	0	0	0	0	0	0	-	-	0	0	0	0
	LTE 38	-	-	0	0	0	0	0	0	-	-	0	0	0	0
	LTE 40 Subset 1	-	-	0	0	-	-	0	0	-	-	0	0	0	0
	LTE 40 Subset 2	-	-	0	0	-	-	0	0	-	-	0	0	0	0
	LTE 41	-	-	0	0	0	0	0	0	-	-	0	0	0	0
	LTE 66	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Frequency Stability	LTE 4	0	0	0	0	0	0	0	0	0	-	-	-	0	-
	LTE 7	-	-	0	0	0	0	0	0	0	-	-	-	0	-
	LTE 38	-	-	0	0	0	0	0	0	0	-	-	-	0	-

	LTE 40 Subset 1	-	-	0	0	-	-	0	0	0	-	-	-	0	-
	LTE 40 Subset 2	-	-	0	0	-	-	0	0	0	-	-	-	0	-
	LTE 41	-	-	0	0	0	0	0	0	0	-	-	-	0	-
	LTE 66	0	0	0	0	0	0	0	0	0	-	-	-	0	-
Spurious Emissions at Antenna Terminals	LTE 4	0	0	0	0	0	0	0	-	0	-	-	0	0	0
	LTE 7	-	-	0	0	0	0	0	-	0	-	-	0	0	0
	LTE 38	-	-	0	0	0	0	0	-	0	-	-	0	0	0
	LTE 40 Subset 1	-	-	0	0	-	-	0	-	0	-	-	0	0	0
	LTE 40 Subset 2	-	-	0	0	-	-	0	-	0	-	-	0	0	0
	LTE 41	-	-	0	0	0	0	0	-	0	-	-	0	0	0
	LTE 66	0	0	0	0	0	0	0	-	0	-	-	0	0	0
Radiates Spurious Emission	LTE 4	0	-	0	-	-	0	0	-	0	-	-	-	0	-
	LTE 7	-	-	0	-	-	0	0	-	0	-	-	-	0	-
	LTE 38	-	-	0	-	-	0	0	-	0	-	-	-	0	-
	LTE 40 Subset 1	-	-	0	0	-	-	0	-	0	-	-	-	0	-
	LTE 40 Subset 2	-	-	0	0	-	-	0	-	0	-	-	-	0	-
	LTE 41	-	-	0	-	-	0	0	-	0	-	-	-	0	-
	LTE 66	-	-	0	-	-	0	0	-	0	-	-	-	0	-
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.

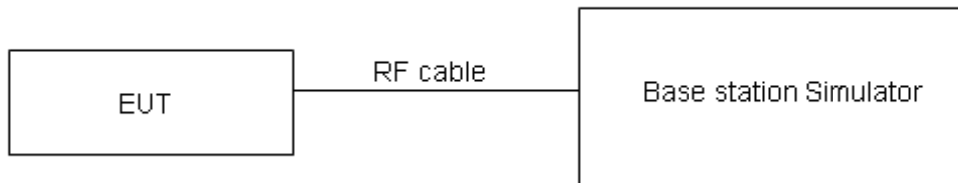
ERP can then be calculated as follows:

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

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. ”

Part 27.50(a)(3)Limit	$\leq 250 \text{ mW}$ (24 dBm)
Part 27.50(d)(4)Limit	$\leq 1 \text{ W}$ (30 dBm)
Part 27.50(h)(2) Limit	$\leq 2 \text{ W}$ (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 meahertz 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 $k = 2$, $U=0.4 \text{ dB}$ for RF power output, $k = 2$, $U= 1.19 \text{ dB}$ 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

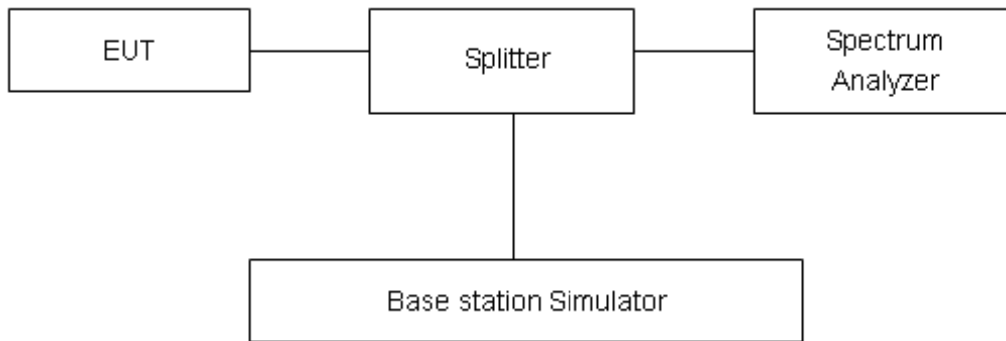
Method of Measurement

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 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.

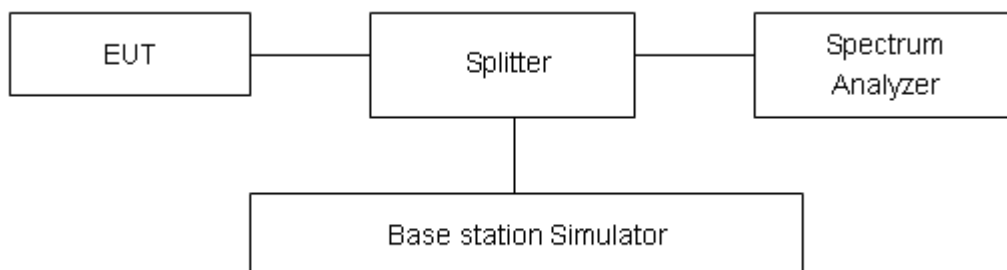
For the middle channel, high channel set RBW \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used; Low channel set RBW \geq 2% EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.

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

LTE 30/40 Rule Part 27.53(a) (4) 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; ”

Rule Part 27.53(i) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz.

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 that $43 + 10 \log (P)$ 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)
 $= P(W) - [43 + 10 \log(P)]$ (dB)
 $= [30 + 10 \log (P)]$ (dBm) - $[43 + 10 \log(P)]$ (dB) = -13dBm.

Measurement Uncertainty

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

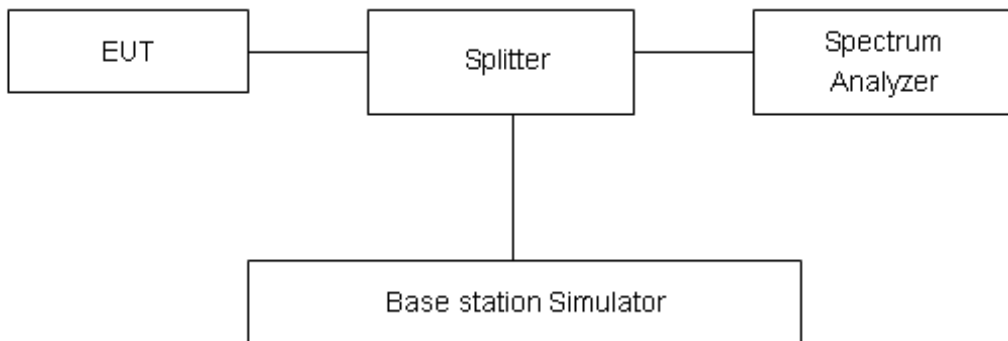
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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.

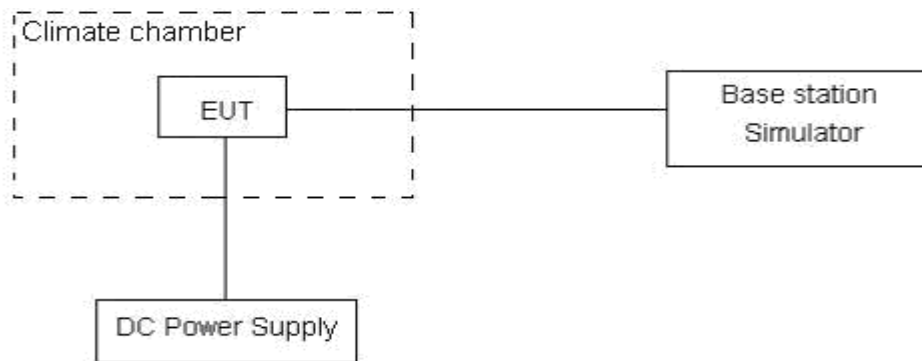
Frequency Stability (Voltage Variation)

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 3.5 V and 4.2 V, with a nominal voltage of 3.8V.

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 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)

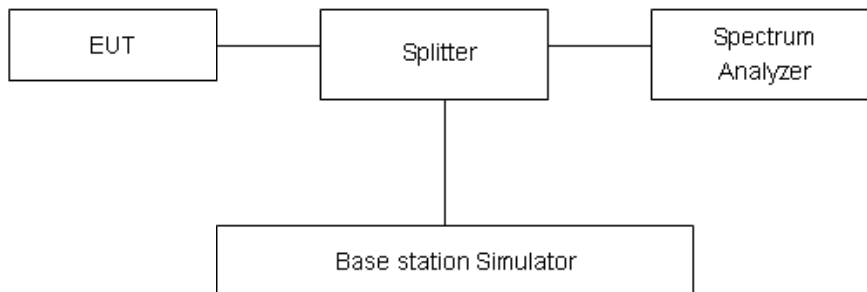
RBW is set to 1000 kHz (above 1000MHz)

Sweep is set to ATUO.

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 Radiated Spurious Emission

Ambient condition

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

Method of Measurement

- The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26-2015.
- 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).
- 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.
- 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).
- 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.
- 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.
- The measurement results are obtained as described below:

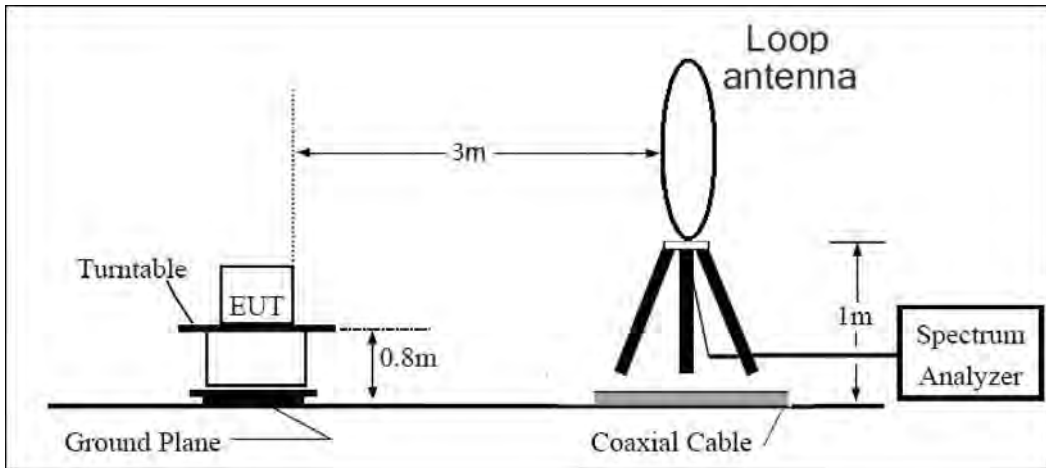
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$
 The measurement results are amend as described below:

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

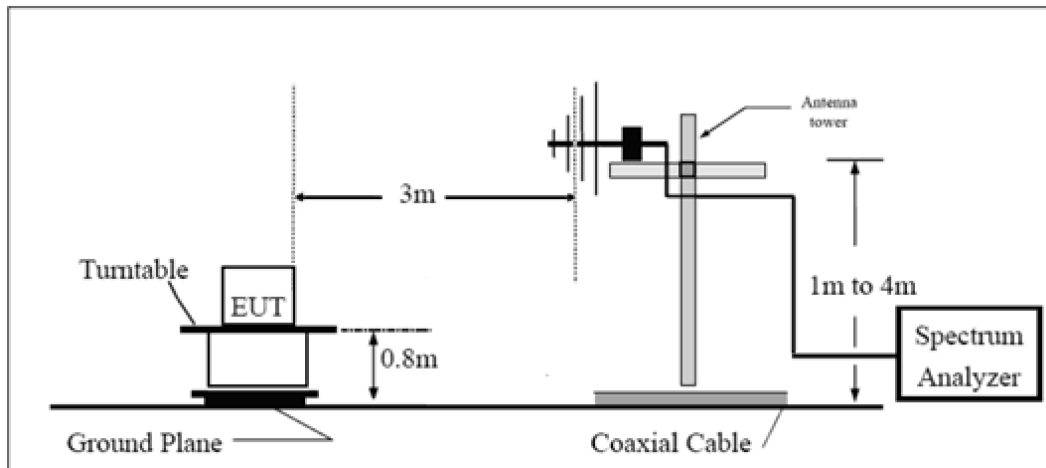
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

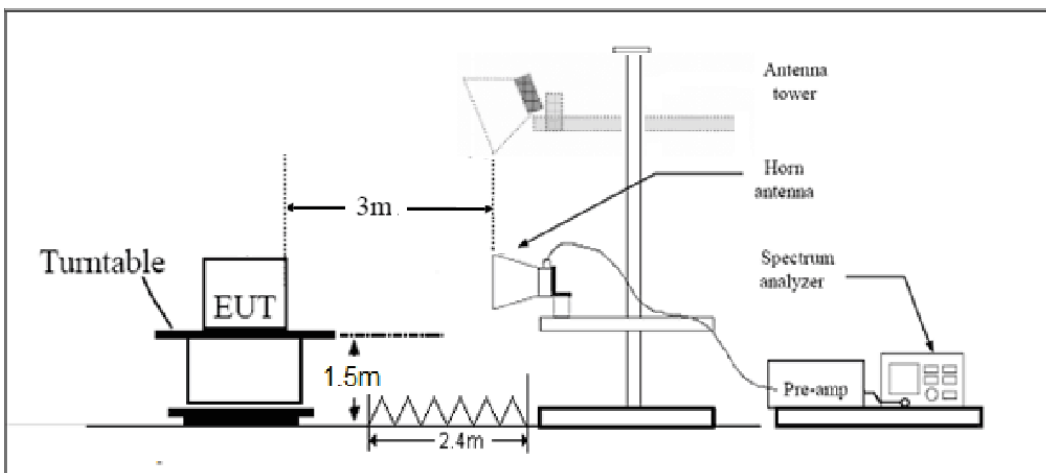
9KHz~ 30MHz



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)/(g) 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/Frenqucy			Channel/Frenqucy		
		1312/1712.4	1413/1732.6	1513/1752.6	1312/1712.4	1413/1732.6	1513/1752.6
RMC	12.2k	22.19	22.22	22.32	24.03	24.06	24.16
HSDPA	Subtest 1	21.61	21.64	21.74	23.45	23.48	23.58
	Subtest 2	21.60	21.63	21.73	23.44	23.47	23.57
	Subtest 3	21.09	21.12	21.22	22.93	22.96	23.06
	Subtest 4	21.08	21.11	21.21	22.92	22.95	23.05
HSUPA	Subtest 1	20.57	20.60	20.70	22.41	22.44	22.54
	Subtest 2	18.56	18.59	18.69	20.40	20.43	20.53
	Subtest 3	19.54	19.58	19.68	21.38	21.42	21.52
	Subtest 4	18.53	18.57	18.67	20.37	20.41	20.51
	Subtest 5	22.02	22.06	22.16	23.86	23.90	24.00
DC-HSDPA	Subtest 1	21.53	21.58	21.66	23.37	23.42	23.50
	Subtest 2	21.52	21.57	21.65	23.36	23.41	23.49
	Subtest 3	21.10	21.06	21.16	22.94	22.90	23.00
	Subtest 4	21.09	21.05	21.15	22.93	22.89	22.99

LTE Band 4						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
1.4	19957	1	#0	QPSK	23.88	25.72
1.4	19957	1	#Mid	QPSK	23.93	25.77
1.4	19957	1	#Max	QPSK	23.85	25.69
1.4	19957	3	#0	QPSK	23.90	25.74
1.4	19957	3	#Mid	QPSK	23.88	25.72
1.4	19957	3	#Max	QPSK	23.83	25.67
1.4	19957	6	#0	QPSK	22.81	24.65
1.4	19957	1	#0	16QAM	23.52	25.36
1.4	19957	1	#Mid	16QAM	23.52	25.36
1.4	19957	1	#Max	16QAM	23.55	25.39
1.4	19957	3	#0	16QAM	22.71	24.55
1.4	19957	3	#Mid	16QAM	22.85	24.69
1.4	19957	3	#Max	16QAM	22.84	24.68
1.4	19957	6	#0	16QAM	22.44	24.28
1.4	20175	1	#0	QPSK	23.73	25.57
1.4	20175	1	#Mid	QPSK	23.69	25.53
1.4	20175	1	#Max	QPSK	23.69	25.53
1.4	20175	3	#0	QPSK	23.80	25.64
1.4	20175	3	#Mid	QPSK	23.79	25.63
1.4	20175	3	#Max	QPSK	23.84	25.68
1.4	20175	6	#0	QPSK	22.76	24.60
1.4	20175	1	#0	16QAM	23.54	25.38
1.4	20175	1	#Mid	16QAM	23.49	25.33
1.4	20175	1	#Max	16QAM	23.49	25.33
1.4	20175	3	#0	16QAM	22.67	24.51
1.4	20175	3	#Mid	16QAM	22.67	24.51
1.4	20175	3	#Max	16QAM	22.76	24.60
1.4	20175	6	#0	16QAM	22.16	24.00
1.4	20393	1	#0	QPSK	23.99	25.83
1.4	20393	1	#Mid	QPSK	24.08	25.92
1.4	20393	1	#Max	QPSK	24.02	25.86
1.4	20393	3	#0	QPSK	23.87	25.71
1.4	20393	3	#Mid	QPSK	23.87	25.71
1.4	20393	3	#Max	QPSK	23.80	25.64
1.4	20393	6	#0	QPSK	22.84	24.68
1.4	20393	1	#0	16QAM	22.73	24.57
1.4	20393	1	#Mid	16QAM	22.82	24.66
1.4	20393	1	#Max	16QAM	22.77	24.61
1.4	20393	3	#0	16QAM	22.79	24.63

1.4	20393	3	#Mid	16QAM	22.77	24.61
1.4	20393	3	#Max	16QAM	22.81	24.65
1.4	20393	6	#0	16QAM	22.52	24.36
3	19965	1	#0	QPSK	23.67	25.51
3	19965	1	#Mid	QPSK	23.75	25.59
3	19965	1	#Max	QPSK	23.69	25.53
3	19965	8	#0	QPSK	22.71	24.55
3	19965	8	#Mid	QPSK	22.71	24.55
3	19965	8	#Max	QPSK	22.81	24.65
3	19965	15	#0	QPSK	22.83	24.67
3	19965	1	#0	16QAM	22.64	24.48
3	19965	1	#Mid	16QAM	22.66	24.50
3	19965	1	#Max	16QAM	22.71	24.55
3	19965	8	#0	16QAM	22.26	24.10
3	19965	8	#Mid	16QAM	22.27	24.11
3	19965	8	#Max	16QAM	21.93	23.77
3	19965	15	#0	16QAM	22.15	23.99
3	20175	1	#0	QPSK	23.66	25.50
3	20175	1	#Mid	QPSK	23.76	25.60
3	20175	1	#Max	QPSK	23.76	25.60
3	20175	8	#0	QPSK	22.94	24.78
3	20175	8	#Mid	QPSK	22.91	24.75
3	20175	8	#Max	QPSK	22.68	24.52
3	20175	15	#0	QPSK	22.58	24.42
3	20175	1	#0	16QAM	23.52	25.36
3	20175	1	#Mid	16QAM	23.47	25.31
3	20175	1	#Max	16QAM	23.52	25.36
3	20175	8	#0	16QAM	22.30	24.14
3	20175	8	#Mid	16QAM	22.31	24.15
3	20175	8	#Max	16QAM	22.27	24.11
3	20175	15	#0	16QAM	22.17	24.01
3	20385	1	#0	QPSK	23.93	25.77
3	20385	1	#Mid	QPSK	23.97	25.81
3	20385	1	#Max	QPSK	23.97	25.81
3	20385	8	#0	QPSK	22.76	24.60
3	20385	8	#Mid	QPSK	22.78	24.62
3	20385	8	#Max	QPSK	22.86	24.70
3	20385	15	#0	QPSK	22.68	24.52
3	20385	1	#0	16QAM	22.75	24.59
3	20385	1	#Mid	16QAM	22.78	24.62
3	20385	1	#Max	16QAM	22.82	24.66
3	20385	8	#0	16QAM	22.01	23.85
3	20385	8	#Mid	16QAM	22.02	23.86

3	20385	8	#Max	16QAM	22.43	24.27
3	20385	15	#0	16QAM	21.95	23.79
5	19975	1	#0	QPSK	23.66	25.50
5	19975	1	#Mid	QPSK	23.59	25.43
5	19975	1	#Max	QPSK	23.63	25.47
5	19975	12	#0	QPSK	22.77	24.61
5	19975	12	#Mid	QPSK	22.77	24.61
5	19975	12	#Max	QPSK	22.68	24.52
5	19975	25	#0	QPSK	22.84	24.68
5	19975	1	#0	16QAM	22.37	24.21
5	19975	1	#Mid	16QAM	22.39	24.23
5	19975	1	#Max	16QAM	22.31	24.15
5	19975	12	#0	16QAM	22.14	23.98
5	19975	12	#Mid	16QAM	22.11	23.95
5	19975	12	#Max	16QAM	21.89	23.73
5	19975	25	#0	16QAM	22.02	23.86
5	20175	1	#0	QPSK	23.75	25.59
5	20175	1	#Mid	QPSK	23.72	25.56
5	20175	1	#Max	QPSK	23.80	25.64
5	20175	12	#0	QPSK	22.83	24.67
5	20175	12	#Mid	QPSK	22.82	24.66
5	20175	12	#Max	QPSK	22.68	24.52
5	20175	25	#0	QPSK	22.65	24.49
5	20175	1	#0	16QAM	22.92	24.76
5	20175	1	#Mid	16QAM	22.85	24.69
5	20175	1	#Max	16QAM	23.01	24.85
5	20175	12	#0	16QAM	22.03	23.87
5	20175	12	#Mid	16QAM	22.02	23.86
5	20175	12	#Max	16QAM	22.09	23.93
5	20175	25	#0	16QAM	22.06	23.90
5	20375	1	#0	QPSK	23.62	25.46
5	20375	1	#Mid	QPSK	23.63	25.47
5	20375	1	#Max	QPSK	23.61	25.45
5	20375	12	#0	QPSK	22.87	24.71
5	20375	12	#Mid	QPSK	22.89	24.73
5	20375	12	#Max	QPSK	22.87	24.71
5	20375	25	#0	QPSK	22.74	24.58
5	20375	1	#0	16QAM	22.65	24.49
5	20375	1	#Mid	16QAM	22.67	24.51
5	20375	1	#Max	16QAM	22.70	24.54
5	20375	12	#0	16QAM	21.89	23.73
5	20375	12	#Mid	16QAM	21.90	23.74
5	20375	12	#Max	16QAM	21.80	23.64

5	20375	25	#0	16QAM	21.67	23.51
10	20000	1	#0	QPSK	23.74	25.58
10	20000	1	#Mid	QPSK	23.71	25.55
10	20000	1	#Max	QPSK	23.75	25.59
10	20000	25	#0	QPSK	22.73	24.57
10	20000	25	#Mid	QPSK	22.75	24.59
10	20000	25	#Max	QPSK	22.81	24.65
10	20000	50	#0	QPSK	22.87	24.71
10	20000	1	#0	16QAM	22.78	24.62
10	20000	1	#Mid	16QAM	22.76	24.60
10	20000	1	#Max	16QAM	22.77	24.61
10	20000	25	#0	16QAM	21.89	23.73
10	20000	25	#Mid	16QAM	21.90	23.74
10	20000	25	#Max	16QAM	21.90	23.74
10	20000	50	#0	16QAM	21.89	23.73
10	20175	1	#0	QPSK	23.79	25.63
10	20175	1	#Mid	QPSK	23.82	25.66
10	20175	1	#Max	QPSK	23.95	25.79
10	20175	25	#0	QPSK	22.65	24.49
10	20175	25	#Mid	QPSK	22.83	24.67
10	20175	25	#Max	QPSK	22.72	24.56
10	20175	50	#0	QPSK	22.79	24.63
10	20175	1	#0	16QAM	22.86	24.70
10	20175	1	#Mid	16QAM	22.82	24.66
10	20175	1	#Max	16QAM	22.96	24.80
10	20175	25	#0	16QAM	22.26	24.10
10	20175	25	#Mid	16QAM	22.25	24.09
10	20175	25	#Max	16QAM	21.93	23.77
10	20175	50	#0	16QAM	22.20	24.04
10	20350	1	#0	QPSK	23.92	25.76
10	20350	1	#Mid	QPSK	23.92	25.76
10	20350	1	#Max	QPSK	23.88	25.72
10	20350	25	#0	QPSK	22.78	24.62
10	20350	25	#Mid	QPSK	22.81	24.65
10	20350	25	#Max	QPSK	22.73	24.57
10	20350	50	#0	QPSK	22.81	24.65
10	20350	1	#0	16QAM	22.26	24.10
10	20350	1	#Mid	16QAM	22.35	24.19
10	20350	1	#Max	16QAM	22.33	24.17
10	20350	25	#0	16QAM	21.88	23.72
10	20350	25	#Mid	16QAM	21.88	23.72
10	20350	25	#Max	16QAM	21.93	23.77
10	20350	50	#0	16QAM	21.96	23.80

15	20025	1	#0	QPSK	23.71	25.55
15	20025	1	#Mid	QPSK	23.67	25.51
15	20025	1	#Max	QPSK	23.73	25.57
15	20025	36	#0	QPSK	22.69	24.53
15	20025	36	#Mid	QPSK	22.71	24.55
15	20025	36	#Max	QPSK	22.67	24.51
15	20025	75	#0	QPSK	22.70	24.54
15	20025	1	#0	16QAM	22.76	24.60
15	20025	1	#Mid	16QAM	22.72	24.56
15	20025	1	#Max	16QAM	22.76	24.60
15	20025	36	#0	16QAM	21.91	23.75
15	20025	36	#Mid	16QAM	21.81	23.65
15	20025	36	#Max	16QAM	21.88	23.72
15	20025	75	#0	16QAM	21.86	23.70
15	20175	1	#0	QPSK	23.84	25.68
15	20175	1	#Mid	QPSK	23.78	25.62
15	20175	1	#Max	QPSK	23.89	25.73
15	20175	36	#0	QPSK	22.73	24.57
15	20175	36	#Mid	QPSK	22.71	24.55
15	20175	36	#Max	QPSK	22.83	24.67
15	20175	75	#0	QPSK	22.74	24.58
15	20175	1	#0	16QAM	22.83	24.67
15	20175	1	#Mid	16QAM	22.83	24.67
15	20175	1	#Max	16QAM	22.94	24.78
15	20175	36	#0	16QAM	22.25	24.09
15	20175	36	#Mid	16QAM	22.26	24.10
15	20175	36	#Max	16QAM	21.92	23.76
15	20175	75	#0	16QAM	22.17	24.01
15	20325	1	#0	QPSK	23.95	25.79
15	20325	1	#Mid	QPSK	23.95	25.79
15	20325	1	#Max	QPSK	23.98	25.82
15	20325	36	#0	QPSK	22.79	24.63
15	20325	36	#Mid	QPSK	22.81	24.65
15	20325	36	#Max	QPSK	22.74	24.58
15	20325	75	#0	QPSK	22.70	24.54
15	20325	1	#0	16QAM	22.77	24.61
15	20325	1	#Mid	16QAM	22.85	24.69
15	20325	1	#Max	16QAM	22.83	24.67
15	20325	36	#0	16QAM	21.99	23.83
15	20325	36	#Mid	16QAM	21.91	23.75
15	20325	36	#Max	16QAM	22.03	23.87
15	20325	75	#0	16QAM	21.87	23.71
20	20050	1	#0	QPSK	23.88	25.72

20	20050	1	#Mid	QPSK	23.82	25.66
20	20050	1	#Max	QPSK	23.88	25.72
20	20050	50	#0	QPSK	22.84	24.68
20	20050	50	#Mid	QPSK	22.83	24.67
20	20050	50	#Max	QPSK	22.70	24.54
20	20050	100	#0	QPSK	22.74	24.58
20	20050	1	#0	16QAM	22.65	24.49
20	20050	1	#Mid	16QAM	22.61	24.45
20	20050	1	#Max	16QAM	22.58	24.42
20	20050	50	#0	16QAM	21.98	23.82
20	20050	50	#Mid	16QAM	21.99	23.83
20	20050	50	#Max	16QAM	21.98	23.82
20	20050	100	#0	16QAM	21.94	23.78
20	20175	1	#0	QPSK	23.86	25.70
20	20175	1	#Mid	QPSK	23.92	25.76
20	20175	1	#Max	QPSK	23.95	25.79
20	20175	50	#0	QPSK	22.72	24.56
20	20175	50	#Mid	QPSK	22.73	24.57
20	20175	50	#Max	QPSK	22.78	24.62
20	20175	100	#0	QPSK	22.71	24.55
20	20175	1	#0	16QAM	22.57	24.41
20	20175	1	#Mid	16QAM	22.44	24.28
20	20175	1	#Max	16QAM	22.63	24.47
20	20175	50	#0	16QAM	22.18	24.02
20	20175	50	#Mid	16QAM	22.20	24.04
20	20175	50	#Max	16QAM	21.96	23.80
20	20175	100	#0	16QAM	22.18	24.02
20	20300	1	#0	QPSK	23.95	25.79
20	20300	1	#Mid	QPSK	24.00	25.84
20	20300	1	#Max	QPSK	24.04	25.88
20	20300	50	#0	QPSK	22.75	24.59
20	20300	50	#Mid	QPSK	22.77	24.61
20	20300	50	#Max	QPSK	22.90	24.74
20	20300	100	#0	QPSK	22.74	24.58
20	20300	1	#0	16QAM	22.70	24.54
20	20300	1	#Mid	16QAM	22.76	24.60
20	20300	1	#Max	16QAM	22.74	24.58
20	20300	50	#0	16QAM	21.92	23.76
20	20300	50	#Mid	16QAM	21.94	23.78
20	20300	50	#Max	16QAM	22.00	23.84
20	20300	100	#0	16QAM	21.94	23.78

LTE Band 7						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
5	20775	1	#0	QPSK	22.97	23.16
5	20775	1	#Mid	QPSK	22.98	23.17
5	20775	1	#Max	QPSK	23.01	23.20
5	20775	12	#0	QPSK	22.15	22.34
5	20775	12	#Mid	QPSK	22.13	22.32
5	20775	12	#Max	QPSK	22.59	22.78
5	20775	25	#0	QPSK	22.53	22.72
5	20775	1	#0	16QAM	21.80	21.99
5	20775	1	#Mid	16QAM	22.43	22.62
5	20775	1	#Max	16QAM	22.03	22.22
5	20775	12	#0	16QAM	21.64	21.83
5	20775	12	#Mid	16QAM	21.59	21.78
5	20775	12	#Max	16QAM	21.52	21.71
5	20775	25	#0	16QAM	21.53	21.72
5	21100	1	#0	QPSK	23.17	23.36
5	21100	1	#Mid	QPSK	23.17	23.36
5	21100	1	#Max	QPSK	23.18	23.37
5	21100	12	#0	QPSK	22.09	22.28
5	21100	12	#Mid	QPSK	22.10	22.29
5	21100	12	#Max	QPSK	22.14	22.33
5	21100	25	#0	QPSK	22.15	22.34
5	21100	1	#0	16QAM	21.84	22.03
5	21100	1	#Mid	16QAM	21.75	21.94
5	21100	1	#Max	16QAM	21.90	22.09
5	21100	12	#0	16QAM	21.14	21.33
5	21100	12	#Mid	16QAM	21.11	21.30
5	21100	12	#Max	16QAM	21.55	21.74
5	21100	25	#0	16QAM	21.91	22.10
5	21425	1	#0	QPSK	23.33	23.52
5	21425	1	#Mid	QPSK	23.35	23.54
5	21425	1	#Max	QPSK	23.32	23.51
5	21425	12	#0	QPSK	22.29	22.48
5	21425	12	#Mid	QPSK	22.29	22.48
5	21425	12	#Max	QPSK	22.30	22.49
5	21425	25	#0	QPSK	22.30	22.49
5	21425	1	#0	16QAM	22.37	22.56
5	21425	1	#Mid	16QAM	22.29	22.48
5	21425	1	#Max	16QAM	22.33	22.52
5	21425	12	#0	16QAM	21.17	21.36
5	21425	12	#Mid	16QAM	21.17	21.36

5	21425	12	#Max	16QAM	21.20	21.39
5	21425	25	#0	16QAM	21.22	21.41
10	20800	1	#0	QPSK	23.11	23.30
10	20800	1	#Mid	QPSK	23.31	23.50
10	20800	1	#Max	QPSK	23.36	23.55
10	20800	25	#0	QPSK	22.57	22.76
10	20800	25	#Mid	QPSK	22.68	22.87
10	20800	25	#Max	QPSK	22.13	22.32
10	20800	50	#0	QPSK	22.28	22.47
10	20800	1	#0	16QAM	21.45	21.64
10	20800	1	#Mid	16QAM	21.60	21.79
10	20800	1	#Max	16QAM	21.58	21.77
10	20800	25	#0	16QAM	21.61	21.80
10	20800	25	#Mid	16QAM	21.66	21.85
10	20800	25	#Max	16QAM	21.15	21.34
10	20800	50	#0	16QAM	21.72	21.91
10	21100	1	#0	QPSK	23.18	23.37
10	21100	1	#Mid	QPSK	23.15	23.34
10	21100	1	#Max	QPSK	23.11	23.30
10	21100	25	#0	QPSK	22.15	22.34
10	21100	25	#Mid	QPSK	22.15	22.34
10	21100	25	#Max	QPSK	22.12	22.31
10	21100	50	#0	QPSK	22.04	22.23
10	21100	1	#0	16QAM	21.77	21.96
10	21100	1	#Mid	16QAM	21.83	22.02
10	21100	1	#Max	16QAM	21.92	22.11
10	21100	25	#0	16QAM	21.17	21.36
10	21100	25	#Mid	16QAM	21.11	21.30
10	21100	25	#Max	16QAM	21.63	21.82
10	21100	50	#0	16QAM	21.71	21.90
10	21400	1	#0	QPSK	23.24	23.43
10	21400	1	#Mid	QPSK	23.33	23.52
10	21400	1	#Max	QPSK	23.44	23.63
10	21400	25	#0	QPSK	22.20	22.39
10	21400	25	#Mid	QPSK	22.23	22.42
10	21400	25	#Max	QPSK	22.38	22.57
10	21400	50	#0	QPSK	22.24	22.43
10	21400	1	#0	16QAM	22.43	22.62
10	21400	1	#Mid	16QAM	22.49	22.68
10	21400	1	#Max	16QAM	22.51	22.70
10	21400	25	#0	16QAM	21.32	21.51
10	21400	25	#Mid	16QAM	21.30	21.49
10	21400	25	#Max	16QAM	21.40	21.59

10	21400	50	#0	16QAM	21.47	21.66
15	20825	1	#0	QPSK	23.01	23.20
15	20825	1	#Mid	QPSK	23.04	23.23
15	20825	1	#Max	QPSK	23.08	23.27
15	20825	36	#0	QPSK	22.22	22.41
15	20825	36	#Mid	QPSK	22.18	22.37
15	20825	36	#Max	QPSK	22.18	22.37
15	20825	75	#0	QPSK	22.03	22.22
15	20825	1	#0	16QAM	22.07	22.26
15	20825	1	#Mid	16QAM	22.03	22.22
15	20825	1	#Max	16QAM	22.16	22.35
15	20825	36	#0	16QAM	21.69	21.88
15	20825	36	#Mid	16QAM	21.65	21.84
15	20825	36	#Max	16QAM	21.74	21.93
15	20825	75	#0	16QAM	21.16	21.35
15	21100	1	#0	QPSK	23.26	23.45
15	21100	1	#Mid	QPSK	23.19	23.38
15	21100	1	#Max	QPSK	23.20	23.39
15	21100	36	#0	QPSK	22.18	22.37
15	21100	36	#Mid	QPSK	22.18	22.37
15	21100	36	#Max	QPSK	22.26	22.45
15	21100	75	#0	QPSK	22.04	22.23
15	21100	1	#0	16QAM	22.43	22.62
15	21100	1	#Mid	16QAM	22.49	22.68
15	21100	1	#Max	16QAM	22.50	22.69
15	21100	36	#0	16QAM	21.75	21.94
15	21100	36	#Mid	16QAM	21.69	21.88
15	21100	36	#Max	16QAM	21.71	21.90
15	21100	75	#0	16QAM	21.66	21.85
15	21375	1	#0	QPSK	23.40	23.59
15	21375	1	#Mid	QPSK	23.38	23.57
15	21375	1	#Max	QPSK	23.49	23.68
15	21375	36	#0	QPSK	22.30	22.49
15	21375	36	#Mid	QPSK	22.32	22.51
15	21375	36	#Max	QPSK	22.32	22.51
15	21375	75	#0	QPSK	22.20	22.39
15	21375	1	#0	16QAM	22.36	22.55
15	21375	1	#Mid	16QAM	22.30	22.49
15	21375	1	#Max	16QAM	22.33	22.52
15	21375	36	#0	16QAM	21.38	21.57
15	21375	36	#Mid	16QAM	21.24	21.43
15	21375	36	#Max	16QAM	21.23	21.42
15	21375	75	#0	16QAM	21.31	21.50

20	20850	1	#0	QPSK	23.08	23.27
20	20850	1	#Mid	QPSK	23.11	23.30
20	20850	1	#Max	QPSK	23.18	23.37
20	20850	50	#0	QPSK	22.10	22.29
20	20850	50	#Mid	QPSK	22.06	22.25
20	20850	50	#Max	QPSK	22.11	22.30
20	20850	100	#0	QPSK	22.10	22.29
20	20850	1	#0	16QAM	21.74	21.93
20	20850	1	#Mid	16QAM	21.73	21.92
20	20850	1	#Max	16QAM	21.89	22.08
20	20850	50	#0	16QAM	21.77	21.96
20	20850	50	#Mid	16QAM	21.78	21.97
20	20850	50	#Max	16QAM	21.84	22.03
20	20850	100	#0	16QAM	21.04	21.23
20	21100	1	#0	QPSK	23.44	23.63
20	21100	1	#Mid	QPSK	23.44	23.63
20	21100	1	#Max	QPSK	23.67	23.86
20	21100	50	#0	QPSK	22.04	22.23
20	21100	50	#Mid	QPSK	22.05	22.24
20	21100	50	#Max	QPSK	22.23	22.42
20	21100	100	#0	QPSK	22.09	22.28
20	21100	1	#0	16QAM	22.10	22.29
20	21100	1	#Mid	16QAM	22.04	22.23
20	21100	1	#Max	16QAM	22.12	22.31
20	21100	50	#0	16QAM	21.78	21.97
20	21100	50	#Mid	16QAM	21.78	21.97
20	21100	50	#Max	16QAM	21.66	21.85
20	21100	100	#0	16QAM	21.73	21.92
20	21350	1	#0	QPSK	23.41	23.60
20	21350	1	#Mid	QPSK	23.57	23.76
20	21350	1	#Max	QPSK	23.53	23.72
20	21350	50	#0	QPSK	22.20	22.39
20	21350	50	#Mid	QPSK	22.10	22.29
20	21350	50	#Max	QPSK	22.26	22.45
20	21350	100	#0	QPSK	22.41	22.60
20	21350	1	#0	16QAM	22.20	22.39
20	21350	1	#Mid	16QAM	22.27	22.46
20	21350	1	#Max	16QAM	22.25	22.44
20	21350	50	#0	16QAM	21.82	22.01
20	21350	50	#Mid	16QAM	21.83	22.02
20	21350	50	#Max	16QAM	21.43	21.62
20	21350	100	#0	16QAM	21.43	21.62

LTE Band 38						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
5	37775	1	#0	QPSK	22.82	23.01
5	37775	1	#Mid	QPSK	22.83	23.02
5	37775	1	#Max	QPSK	22.83	23.02
5	37775	12	#0	QPSK	21.95	22.14
5	37775	12	#Mid	QPSK	21.96	22.15
5	37775	12	#Max	QPSK	21.93	22.12
5	37775	25	#0	QPSK	21.90	22.09
5	37775	1	#0	16QAM	21.78	21.97
5	37775	1	#Mid	16QAM	21.85	22.04
5	37775	1	#Max	16QAM	21.78	21.97
5	37775	12	#0	16QAM	21.01	21.20
5	37775	12	#Mid	16QAM	21.00	21.19
5	37775	12	#Max	16QAM	21.00	21.19
5	37775	25	#0	16QAM	20.95	21.14
5	38000	1	#0	QPSK	23.13	23.32
5	38000	1	#Mid	QPSK	23.17	23.36
5	38000	1	#Max	QPSK	23.21	23.40
5	38000	12	#0	QPSK	22.11	22.30
5	38000	12	#Mid	QPSK	22.06	22.25
5	38000	12	#Max	QPSK	22.06	22.25
5	38000	25	#0	QPSK	22.06	22.25
5	38000	1	#0	16QAM	22.65	22.84
5	38000	1	#Mid	16QAM	22.60	22.79
5	38000	1	#Max	16QAM	22.32	22.51
5	38000	12	#0	16QAM	21.11	21.30
5	38000	12	#Mid	16QAM	21.10	21.29
5	38000	12	#Max	16QAM	21.09	21.28
5	38000	25	#0	16QAM	21.23	21.42
5	38225	1	#0	QPSK	23.06	23.25
5	38225	1	#Mid	QPSK	23.11	23.30
5	38225	1	#Max	QPSK	23.18	23.37
5	38225	12	#0	QPSK	22.30	22.49
5	38225	12	#Mid	QPSK	22.29	22.48
5	38225	12	#Max	QPSK	22.22	22.41
5	38225	25	#0	QPSK	22.16	22.35
5	38225	1	#0	16QAM	22.42	22.61
5	38225	1	#Mid	16QAM	22.45	22.64
5	38225	1	#Max	16QAM	22.41	22.60
5	38225	12	#0	16QAM	21.06	21.25
5	38225	12	#Mid	16QAM	21.07	21.26

5	38225	12	#Max	16QAM	21.04	21.23
5	38225	25	#0	16QAM	21.28	21.47
10	37800	1	#0	QPSK	23.16	23.35
10	37800	1	#Mid	QPSK	23.26	23.45
10	37800	1	#Max	QPSK	23.30	23.49
10	37800	25	#0	QPSK	21.91	22.10
10	37800	25	#Mid	QPSK	21.92	22.11
10	37800	25	#Max	QPSK	21.96	22.15
10	37800	50	#0	QPSK	22.01	22.20
10	37800	1	#0	16QAM	22.27	22.46
10	37800	1	#Mid	16QAM	22.42	22.61
10	37800	1	#Max	16QAM	22.36	22.55
10	37800	25	#0	16QAM	21.14	21.33
10	37800	25	#Mid	16QAM	21.14	21.33
10	37800	25	#Max	16QAM	21.17	21.36
10	37800	50	#0	16QAM	21.08	21.27
10	38000	1	#0	QPSK	23.35	23.54
10	38000	1	#Mid	QPSK	23.33	23.52
10	38000	1	#Max	QPSK	23.32	23.51
10	38000	25	#0	QPSK	22.21	22.40
10	38000	25	#Mid	QPSK	22.21	22.40
10	38000	25	#Max	QPSK	22.24	22.43
10	38000	50	#0	QPSK	22.25	22.44
10	38000	1	#0	16QAM	22.68	22.87
10	38000	1	#Mid	16QAM	22.85	23.04
10	38000	1	#Max	16QAM	22.89	23.08
10	38000	25	#0	16QAM	21.32	21.51
10	38000	25	#Mid	16QAM	21.32	21.51
10	38000	25	#Max	16QAM	21.37	21.56
10	38000	50	#0	16QAM	21.33	21.52
10	38200	1	#0	QPSK	23.21	23.40
10	38200	1	#Mid	QPSK	23.14	23.33
10	38200	1	#Max	QPSK	23.21	23.40
10	38200	25	#0	QPSK	22.33	22.52
10	38200	25	#Mid	QPSK	22.31	22.50
10	38200	25	#Max	QPSK	22.41	22.60
10	38200	50	#0	QPSK	22.30	22.49
10	38200	1	#0	16QAM	21.93	22.12
10	38200	1	#Mid	16QAM	22.10	22.29
10	38200	1	#Max	16QAM	22.20	22.39
10	38200	25	#0	16QAM	21.43	21.62
10	38200	25	#Mid	16QAM	21.42	21.61
10	38200	25	#Max	16QAM	21.41	21.60

10	38200	50	#0	16QAM	21.30	21.49
15	37825	1	#0	QPSK	23.10	23.29
15	37825	1	#Mid	QPSK	23.23	23.42
15	37825	1	#Max	QPSK	23.32	23.51
15	37825	36	#0	QPSK	22.04	22.23
15	37825	36	#Mid	QPSK	22.05	22.24
15	37825	36	#Max	QPSK	22.20	22.39
15	37825	75	#0	QPSK	22.03	22.22
15	37825	1	#0	16QAM	22.28	22.47
15	37825	1	#Mid	16QAM	22.29	22.48
15	37825	1	#Max	16QAM	22.41	22.60
15	37825	36	#0	16QAM	21.14	21.33
15	37825	36	#Mid	16QAM	21.14	21.33
15	37825	36	#Max	16QAM	21.13	21.32
15	37825	75	#0	16QAM	21.13	21.32
15	38000	1	#0	QPSK	23.41	23.60
15	38000	1	#Mid	QPSK	23.39	23.58
15	38000	1	#Max	QPSK	23.47	23.66
15	38000	36	#0	QPSK	22.30	22.49
15	38000	36	#Mid	QPSK	22.32	22.51
15	38000	36	#Max	QPSK	22.26	22.45
15	38000	75	#0	QPSK	22.25	22.44
15	38000	1	#0	16QAM	22.66	22.85
15	38000	1	#Mid	16QAM	22.89	23.08
15	38000	1	#Max	16QAM	22.95	23.14
15	38000	36	#0	16QAM	21.42	21.61
15	38000	36	#Mid	16QAM	21.43	21.62
15	38000	36	#Max	16QAM	21.33	21.52
15	38000	75	#0	16QAM	21.13	21.32
15	38175	1	#0	QPSK	23.31	23.50
15	38175	1	#Mid	QPSK	23.33	23.52
15	38175	1	#Max	QPSK	23.23	23.42
15	38175	36	#0	QPSK	22.17	22.36
15	38175	36	#Mid	QPSK	22.15	22.34
15	38175	36	#Max	QPSK	22.31	22.50
15	38175	75	#0	QPSK	22.50	22.69
15	38175	1	#0	16QAM	22.02	22.21
15	38175	1	#Mid	16QAM	21.97	22.16
15	38175	1	#Max	16QAM	22.14	22.33
15	38175	36	#0	16QAM	21.29	21.48
15	38175	36	#Mid	16QAM	21.31	21.50
15	38175	36	#Max	16QAM	21.26	21.45
15	38175	75	#0	16QAM	21.36	21.55

20	37850	1	#0	QPSK	23.17	23.36
20	37850	1	#Mid	QPSK	23.11	23.30
20	37850	1	#Max	QPSK	23.18	23.37
20	37850	50	#0	QPSK	22.11	22.30
20	37850	50	#Mid	QPSK	22.11	22.30
20	37850	50	#Max	QPSK	22.29	22.48
20	37850	100	#0	QPSK	22.27	22.46
20	37850	1	#0	16QAM	22.81	23.00
20	37850	1	#Mid	16QAM	23.01	23.20
20	37850	1	#Max	16QAM	23.06	23.25
20	37850	50	#0	16QAM	21.33	21.52
20	37850	50	#Mid	16QAM	21.34	21.53
20	37850	50	#Max	16QAM	21.43	21.62
20	37850	100	#0	16QAM	21.22	21.41
20	38000	1	#0	QPSK	23.24	23.43
20	38000	1	#Mid	QPSK	23.23	23.42
20	38000	1	#Max	QPSK	23.28	23.47
20	38000	50	#0	QPSK	22.18	22.37
20	38000	50	#Mid	QPSK	22.12	22.31
20	38000	50	#Max	QPSK	22.12	22.31
20	38000	100	#0	QPSK	22.13	22.32
20	38000	1	#0	16QAM	21.67	21.86
20	38000	1	#Mid	16QAM	21.70	21.89
20	38000	1	#Max	16QAM	21.86	22.05
20	38000	50	#0	16QAM	21.13	21.32
20	38000	50	#Mid	16QAM	21.06	21.25
20	38000	50	#Max	16QAM	21.10	21.29
20	38000	100	#0	16QAM	21.22	21.41
20	38150	1	#0	QPSK	23.15	23.34
20	38150	1	#Mid	QPSK	23.22	23.41
20	38150	1	#Max	QPSK	23.33	23.52
20	38150	50	#0	QPSK	22.16	22.35
20	38150	50	#Mid	QPSK	22.13	22.32
20	38150	50	#Max	QPSK	22.14	22.33
20	38150	100	#0	QPSK	22.10	22.29
20	38150	1	#0	16QAM	22.14	22.33
20	38150	1	#Mid	16QAM	22.11	22.30
20	38150	1	#Max	16QAM	22.00	22.19
20	38150	50	#0	16QAM	21.05	21.24
20	38150	50	#Mid	16QAM	21.28	21.47
20	38150	50	#Max	16QAM	21.15	21.34
20	38150	100	#0	16QAM	21.28	21.47

LTE Band 40 Subset 1						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
5	38725	1	#0	QPSK	22.90	23.36
5	38725	1	#Mid	QPSK	22.89	23.35
5	38725	1	#Max	QPSK	22.95	23.41
5	38725	12	#0	QPSK	22.11	22.57
5	38725	12	#Mid	QPSK	22.11	22.57
5	38725	12	#Max	QPSK	22.10	22.56
5	38725	25	#0	QPSK	22.18	22.64
5	38725	1	#0	16QAM	21.94	22.40
5	38725	1	#Mid	16QAM	21.99	22.45
5	38725	1	#Max	16QAM	21.91	22.37
5	38725	12	#0	16QAM	21.19	21.65
5	38725	12	#Mid	16QAM	21.12	21.58
5	38725	12	#Max	16QAM	21.17	21.63
5	38725	25	#0	16QAM	20.99	21.45
5	38750	1	#0	QPSK	23.13	23.59
5	38750	1	#Mid	QPSK	23.14	23.60
5	38750	1	#Max	QPSK	23.19	23.65
5	38750	12	#0	QPSK	22.18	22.64
5	38750	12	#Mid	QPSK	22.18	22.64
5	38750	12	#Max	QPSK	22.07	22.53
5	38750	25	#0	QPSK	22.15	22.61
5	38750	1	#0	16QAM	22.72	23.18
5	38750	1	#Mid	16QAM	22.72	23.18
5	38750	1	#Max	16QAM	22.45	22.91
5	38750	12	#0	16QAM	21.06	21.52
5	38750	12	#Mid	16QAM	21.07	21.53
5	38750	12	#Max	16QAM	21.12	21.58
5	38750	25	#0	16QAM	21.23	21.69
5	38775	1	#0	QPSK	23.11	23.57
5	38775	1	#Mid	QPSK	23.10	23.56
5	38775	1	#Max	QPSK	23.11	23.57
5	38775	12	#0	QPSK	22.23	22.69
5	38775	12	#Mid	QPSK	22.23	22.69
5	38775	12	#Max	QPSK	22.15	22.61
5	38775	25	#0	QPSK	22.19	22.65
5	38775	1	#0	16QAM	22.40	22.86
5	38775	1	#Mid	16QAM	22.43	22.89
5	38775	1	#Max	16QAM	22.44	22.90
5	38775	12	#0	16QAM	21.03	21.49
5	38775	12	#Mid	16QAM	20.92	21.38

5	38775	12	#Max	16QAM	21.01	21.47
5	38775	25	#0	16QAM	21.28	21.74
10	38750	1	#0	QPSK	23.24	23.70
10	38750	1	#Mid	QPSK	23.21	23.67
10	38750	1	#Max	QPSK	23.25	23.71
10	38750	25	#0	QPSK	22.19	22.65
10	38750	25	#Mid	QPSK	22.20	22.66
10	38750	25	#Max	QPSK	22.27	22.73
10	38750	50	#0	QPSK	22.24	22.70
10	38750	1	#0	16QAM	22.10	22.56
10	38750	1	#Mid	16QAM	21.98	22.44
10	38750	1	#Max	16QAM	22.23	22.69
10	38750	25	#0	16QAM	21.36	21.82
10	38750	25	#Mid	16QAM	21.37	21.83
10	38750	25	#Max	16QAM	21.26	21.72
10	38750	50	#0	16QAM	21.30	21.76

LTE Band 40 Subset 2						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
5	39175	1	#0	QPSK	22.94	23.40
5	39175	1	#Mid	QPSK	22.90	23.36
5	39175	1	#Max	QPSK	23.08	23.54
5	39175	12	#0	QPSK	22.19	22.65
5	39175	12	#Mid	QPSK	22.19	22.65
5	39175	12	#Max	QPSK	22.16	22.62
5	39175	25	#0	QPSK	22.16	22.62
5	39175	1	#0	16QAM	22.12	22.58
5	39175	1	#Mid	16QAM	21.90	22.36
5	39175	1	#Max	16QAM	21.90	22.36
5	39175	12	#0	16QAM	21.19	21.65
5	39175	12	#Mid	16QAM	21.20	21.66
5	39175	12	#Max	16QAM	21.18	21.64
5	39175	25	#0	16QAM	20.97	21.43
5	39200	1	#0	QPSK	23.10	23.56
5	39200	1	#Mid	QPSK	23.19	23.65
5	39200	1	#Max	QPSK	23.15	23.61
5	39200	12	#0	QPSK	22.11	22.57
5	39200	12	#Mid	QPSK	22.12	22.58
5	39200	12	#Max	QPSK	22.12	22.58
5	39200	25	#0	QPSK	22.22	22.68
5	39200	1	#0	16QAM	22.77	23.23
5	39200	1	#Mid	16QAM	22.84	23.30

5	39200	1	#Max	16QAM	22.33	22.79
5	39200	12	#0	16QAM	21.21	21.67
5	39200	12	#Mid	16QAM	21.21	21.67
5	39200	12	#Max	16QAM	21.03	21.49
5	39200	25	#0	16QAM	21.22	21.68
5	39225	1	#0	QPSK	23.08	23.54
5	39225	1	#Mid	QPSK	23.15	23.61
5	39225	1	#Max	QPSK	23.05	23.51
5	39225	12	#0	QPSK	22.10	22.56
5	39225	12	#Mid	QPSK	22.11	22.57
5	39225	12	#Max	QPSK	22.09	22.55
5	39225	25	#0	QPSK	22.20	22.66
5	39225	1	#0	16QAM	22.53	22.99
5	39225	1	#Mid	16QAM	22.44	22.90
5	39225	1	#Max	16QAM	22.43	22.89
5	39225	12	#0	16QAM	21.00	21.46
5	39225	12	#Mid	16QAM	21.01	21.47
5	39225	12	#Max	16QAM	21.03	21.49
5	39225	25	#0	16QAM	21.28	21.74
10	39200	1	#0	QPSK	23.22	23.68
10	39200	1	#Mid	QPSK	23.32	23.78
10	39200	1	#Max	QPSK	23.26	23.72
10	39200	25	#0	QPSK	22.22	22.68
10	39200	25	#Mid	QPSK	22.23	22.69
10	39200	25	#Max	QPSK	22.24	22.70
10	39200	50	#0	QPSK	22.32	22.78
10	39200	1	#0	16QAM	22.17	22.63
10	39200	1	#Mid	16QAM	22.15	22.61
10	39200	1	#Max	16QAM	22.13	22.59
10	39200	25	#0	16QAM	21.40	21.86
10	39200	25	#Mid	16QAM	21.38	21.84
10	39200	25	#Max	16QAM	21.31	21.77
10	39200	50	#0	16QAM	21.41	21.87

LTE Band 41						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
5	39675	1	#0	QPSK	22.72	22.91
5	39675	1	#Mid	QPSK	22.75	22.94
5	39675	1	#Max	QPSK	22.76	22.95
5	39675	12	#0	QPSK	21.64	21.83
5	39675	12	#Mid	QPSK	21.65	21.84
5	39675	12	#Max	QPSK	21.69	21.88

5	39675	25	#0	QPSK	21.68	21.87
5	39675	1	#0	16QAM	22.42	22.61
5	39675	1	#Mid	16QAM	22.34	22.53
5	39675	1	#Max	16QAM	22.06	22.25
5	39675	12	#0	16QAM	20.75	20.94
5	39675	12	#Mid	16QAM	20.76	20.95
5	39675	12	#Max	16QAM	20.70	20.89
5	39675	25	#0	16QAM	20.85	21.04
5	40620	1	#0	QPSK	22.89	23.08
5	40620	1	#Mid	QPSK	22.85	23.04
5	40620	1	#Max	QPSK	22.97	23.16
5	40620	12	#0	QPSK	22.07	22.26
5	40620	12	#Mid	QPSK	22.01	22.20
5	40620	12	#Max	QPSK	21.87	22.06
5	40620	25	#0	QPSK	21.87	22.06
5	40620	1	#0	16QAM	22.14	22.33
5	40620	1	#Mid	16QAM	22.07	22.26
5	40620	1	#Max	16QAM	22.29	22.48
5	40620	12	#0	16QAM	20.82	21.01
5	40620	12	#Mid	16QAM	20.83	21.02
5	40620	12	#Max	16QAM	20.8	20.99
5	40620	25	#0	16QAM	20.93	21.12
5	41565	1	#0	QPSK	23.13	23.32
5	41565	1	#Mid	QPSK	23.23	23.42
5	41565	1	#Max	QPSK	23.15	23.34
5	41565	12	#0	QPSK	22.19	22.38
5	41565	12	#Mid	QPSK	22.15	22.34
5	41565	12	#Max	QPSK	22.22	22.41
5	41565	25	#0	QPSK	22.28	22.47
5	41565	1	#0	16QAM	22.55	22.74
5	41565	1	#Mid	16QAM	22.54	22.73
5	41565	1	#Max	16QAM	22.60	22.79
5	41565	12	#0	16QAM	21.04	21.23
5	41565	12	#Mid	16QAM	21.05	21.24
5	41565	12	#Max	16QAM	21.13	21.32
5	41565	25	#0	16QAM	21.15	21.34
10	39700	1	#0	QPSK	22.94	23.13
10	39700	1	#Mid	QPSK	22.92	23.11
10	39700	1	#Max	QPSK	22.99	23.18
10	39700	25	#0	QPSK	21.84	22.03
10	39700	25	#Mid	QPSK	21.84	22.03
10	39700	25	#Max	QPSK	21.91	22.10
10	39700	50	#0	QPSK	21.76	21.95

10	39700	1	#0	16QAM	22.07	22.26
10	39700	1	#Mid	16QAM	22.07	22.26
10	39700	1	#Max	16QAM	21.98	22.17
10	39700	25	#0	16QAM	20.82	21.01
10	39700	25	#Mid	16QAM	20.83	21.02
10	39700	25	#Max	16QAM	20.95	21.14
10	39700	50	#0	16QAM	20.89	21.08
10	40620	1	#0	QPSK	23.31	23.50
10	40620	1	#Mid	QPSK	23.22	23.41
10	40620	1	#Max	QPSK	23.29	23.48
10	40620	25	#0	QPSK	22.19	22.38
10	40620	25	#Mid	QPSK	22.19	22.38
10	40620	25	#Max	QPSK	22.28	22.47
10	40620	50	#0	QPSK	22.16	22.35
10	40620	1	#0	16QAM	22.64	22.83
10	40620	1	#Mid	16QAM	22.75	22.94
10	40620	1	#Max	16QAM	22.54	22.73
10	40620	25	#0	16QAM	21.23	21.42
10	40620	25	#Mid	16QAM	21.24	21.43
10	40620	25	#Max	16QAM	21.36	21.55
10	40620	50	#0	16QAM	21.11	21.30
10	41540	1	#0	QPSK	23.02	23.21
10	41540	1	#Mid	QPSK	23.00	23.19
10	41540	1	#Max	QPSK	23.03	23.22
10	41540	25	#0	QPSK	22.19	22.38
10	41540	25	#Mid	QPSK	22.19	22.38
10	41540	25	#Max	QPSK	22.33	22.52
10	41540	50	#0	QPSK	22.26	22.45
10	41540	1	#0	16QAM	22.18	22.37
10	41540	1	#Mid	16QAM	22.20	22.39
10	41540	1	#Max	16QAM	22.17	22.36
10	41540	25	#0	16QAM	21.29	21.48
10	41540	25	#Mid	16QAM	21.28	21.47
10	41540	25	#Max	16QAM	21.32	21.51
10	41540	50	#0	16QAM	21.12	21.31
15	39725	1	#0	QPSK	22.97	23.16
15	39725	1	#Mid	QPSK	22.99	23.18
15	39725	1	#Max	QPSK	23.01	23.20
15	39725	36	#0	QPSK	21.71	21.90
15	39725	36	#Mid	QPSK	21.75	21.94
15	39725	36	#Max	QPSK	21.90	22.09
15	39725	75	#0	QPSK	21.95	22.14
15	39725	1	#0	16QAM	22.01	22.20

15	39725	1	#Mid	16QAM	22.08	22.27
15	39725	1	#Max	16QAM	21.93	22.12
15	39725	36	#0	16QAM	20.87	21.06
15	39725	36	#Mid	16QAM	20.84	21.03
15	39725	36	#Max	16QAM	20.92	21.11
15	39725	75	#0	16QAM	20.94	21.13
15	40620	1	#0	QPSK	23.24	23.43
15	40620	1	#Mid	QPSK	23.3	23.49
15	40620	1	#Max	QPSK	23.33	23.52
15	40620	36	#0	QPSK	22.10	22.29
15	40620	36	#Mid	QPSK	22.18	22.37
15	40620	36	#Max	QPSK	22.16	22.35
15	40620	75	#0	QPSK	22.07	22.26
15	40620	1	#0	16QAM	22.76	22.95
15	40620	1	#Mid	16QAM	22.96	23.15
15	40620	1	#Max	16QAM	22.73	22.92
15	40620	36	#0	16QAM	21.41	21.60
15	40620	36	#Mid	16QAM	21.33	21.52
15	40620	36	#Max	16QAM	21.34	21.53
15	40620	75	#0	16QAM	21.31	21.50
15	41515	1	#0	QPSK	23.04	23.23
15	41515	1	#Mid	QPSK	23.18	23.37
15	41515	1	#Max	QPSK	23.16	23.35
15	41515	36	#0	QPSK	22.23	22.42
15	41515	36	#Mid	QPSK	22.24	22.43
15	41515	36	#Max	QPSK	22.22	22.41
15	41515	75	#0	QPSK	22.14	22.33
15	41515	1	#0	16QAM	22.00	22.19
15	41515	1	#Mid	16QAM	21.93	22.12
15	41515	1	#Max	16QAM	21.93	22.12
15	41515	36	#0	16QAM	21.19	21.38
15	41515	36	#Mid	16QAM	21.24	21.43
15	41515	36	#Max	16QAM	21.1	21.29
15	41515	75	#0	16QAM	21.21	21.40
20	39750	1	#0	QPSK	22.85	23.04
20	39750	1	#Mid	QPSK	22.83	23.02
20	39750	1	#Max	QPSK	22.96	23.15
20	39750	50	#0	QPSK	21.88	22.07
20	39750	50	#Mid	QPSK	22.04	22.23
20	39750	50	#Max	QPSK	21.87	22.06
20	39750	100	#0	QPSK	22.05	22.24
20	39750	1	#0	16QAM	22.42	22.61
20	39750	1	#Mid	16QAM	22.49	22.68

20	39750	1	#Max	16QAM	22.69	22.88
20	39750	50	#0	16QAM	21.10	21.29
20	39750	50	#Mid	16QAM	21.11	21.30
20	39750	50	#Max	16QAM	21.16	21.35
20	39750	100	#0	16QAM	21.07	21.26
20	40620	1	#0	QPSK	23.08	23.27
20	40620	1	#Mid	QPSK	23.12	23.31
20	40620	1	#Max	QPSK	23.26	23.45
20	40620	50	#0	QPSK	22.02	22.21
20	40620	50	#Mid	QPSK	22.02	22.21
20	40620	50	#Max	QPSK	22.14	22.33
20	40620	100	#0	QPSK	21.96	22.15
20	40620	1	#0	16QAM	21.60	21.79
20	40620	1	#Mid	16QAM	21.61	21.80
20	40620	1	#Max	16QAM	21.69	21.88
20	40620	50	#0	16QAM	20.97	21.16
20	40620	50	#Mid	16QAM	20.97	21.16
20	40620	50	#Max	16QAM	21.01	21.20
20	40620	100	#0	16QAM	21.17	21.36
20	41490	1	#0	QPSK	23.08	23.27
20	41490	1	#Mid	QPSK	23.18	23.37
20	41490	1	#Max	QPSK	23.15	23.34
20	41490	50	#0	QPSK	21.96	22.15
20	41490	50	#Mid	QPSK	21.91	22.10
20	41490	50	#Max	QPSK	22.10	22.29
20	41490	100	#0	QPSK	21.99	22.18
20	41490	1	#0	16QAM	22.05	22.24
20	41490	1	#Mid	16QAM	22.01	22.20
20	41490	1	#Max	16QAM	22.09	22.28
20	41490	50	#0	16QAM	21.23	21.42
20	41490	50	#Mid	16QAM	21.03	21.22
20	41490	50	#Max	16QAM	21.23	21.42
20	41490	100	#0	16QAM	21.07	21.26

LTE Band 66						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
1.4	131979	1	#0	QPSK	23.72	25.56
1.4	131979	1	#Mid	QPSK	23.95	25.79
1.4	131979	1	#Max	QPSK	23.73	25.57
1.4	131979	3	#0	QPSK	23.65	25.49
1.4	131979	3	#Mid	QPSK	23.62	25.46
1.4	131979	3	#Max	QPSK	23.60	25.44
1.4	131979	6	#0	QPSK	22.50	24.34
1.4	131979	1	#0	16QAM	23.29	25.13
1.4	131979	1	#Mid	16QAM	23.37	25.21
1.4	131979	1	#Max	16QAM	23.34	25.18
1.4	131979	3	#0	16QAM	22.56	24.40
1.4	131979	3	#Mid	16QAM	22.58	24.42
1.4	131979	3	#Max	16QAM	22.64	24.48
1.4	131979	6	#0	16QAM	22.04	23.88
1.4	132322	1	#0	QPSK	23.45	25.29
1.4	132322	1	#Mid	QPSK	23.56	25.40
1.4	132322	1	#Max	QPSK	23.57	25.41
1.4	132322	3	#0	QPSK	23.68	25.52
1.4	132322	3	#Mid	QPSK	23.68	25.52
1.4	132322	3	#Max	QPSK	23.64	25.48
1.4	132322	6	#0	QPSK	22.68	24.52
1.4	132322	1	#0	16QAM	23.28	25.12
1.4	132322	1	#Mid	16QAM	23.28	25.12
1.4	132322	1	#Max	16QAM	23.29	25.13
1.4	132322	3	#0	16QAM	22.67	24.51
1.4	132322	3	#Mid	16QAM	22.66	24.50
1.4	132322	3	#Max	16QAM	22.68	24.52
1.4	132322	6	#0	16QAM	21.72	23.56
1.4	132665	1	#0	QPSK	23.75	25.59
1.4	132665	1	#Mid	QPSK	23.76	25.60
1.4	132665	1	#Max	QPSK	23.85	25.69
1.4	132665	3	#0	QPSK	23.87	25.71
1.4	132665	3	#Mid	QPSK	23.85	25.69
1.4	132665	3	#Max	QPSK	23.88	25.72
1.4	132665	6	#0	QPSK	22.76	24.60
1.4	132665	1	#0	16QAM	22.46	24.30
1.4	132665	1	#Mid	16QAM	22.56	24.40
1.4	132665	1	#Max	16QAM	22.56	24.40
1.4	132665	3	#0	16QAM	22.87	24.71

1.4	132665	3	#Mid	16QAM	22.87	24.71
1.4	132665	3	#Max	16QAM	22.88	24.72
1.4	132665	6	#0	16QAM	22.35	24.19
3	131987	1	#0	QPSK	23.53	25.37
3	131987	1	#Mid	QPSK	23.48	25.32
3	131987	1	#Max	QPSK	23.56	25.40
3	131987	8	#0	QPSK	22.63	24.47
3	131987	8	#Mid	QPSK	22.63	24.47
3	131987	8	#Max	QPSK	22.54	24.38
3	131987	15	#0	QPSK	22.57	24.41
3	131987	1	#0	16QAM	22.51	24.35
3	131987	1	#Mid	16QAM	22.42	24.26
3	131987	1	#Max	16QAM	22.46	24.30
3	131987	8	#0	16QAM	21.98	23.82
3	131987	8	#Mid	16QAM	21.99	23.83
3	131987	8	#Max	16QAM	21.90	23.74
3	131987	15	#0	16QAM	21.90	23.74
3	132322	1	#0	QPSK	23.55	25.39
3	132322	1	#Mid	QPSK	23.49	25.33
3	132322	1	#Max	QPSK	23.53	25.37
3	132322	8	#0	QPSK	22.59	24.43
3	132322	8	#Mid	QPSK	22.61	24.45
3	132322	8	#Max	QPSK	22.62	24.46
3	132322	15	#0	QPSK	22.60	24.44
3	132322	1	#0	16QAM	23.34	25.18
3	132322	1	#Mid	16QAM	23.17	25.01
3	132322	1	#Max	16QAM	23.28	25.12
3	132322	8	#0	16QAM	22.00	23.84
3	132322	8	#Mid	16QAM	22.00	23.84
3	132322	8	#Max	16QAM	22.03	23.87
3	132322	15	#0	16QAM	21.93	23.77
3	132657	1	#0	QPSK	23.77	25.61
3	132657	1	#Mid	QPSK	23.78	25.62
3	132657	1	#Max	QPSK	23.84	25.68
3	132657	8	#0	QPSK	22.81	24.65
3	132657	8	#Mid	QPSK	22.81	24.65
3	132657	8	#Max	QPSK	22.79	24.63
3	132657	15	#0	QPSK	22.78	24.62
3	132657	1	#0	16QAM	22.50	24.34
3	132657	1	#Mid	16QAM	22.49	24.33
3	132657	1	#Max	16QAM	22.48	24.32
3	132657	8	#0	16QAM	22.25	24.09
3	132657	8	#Mid	16QAM	22.26	24.10

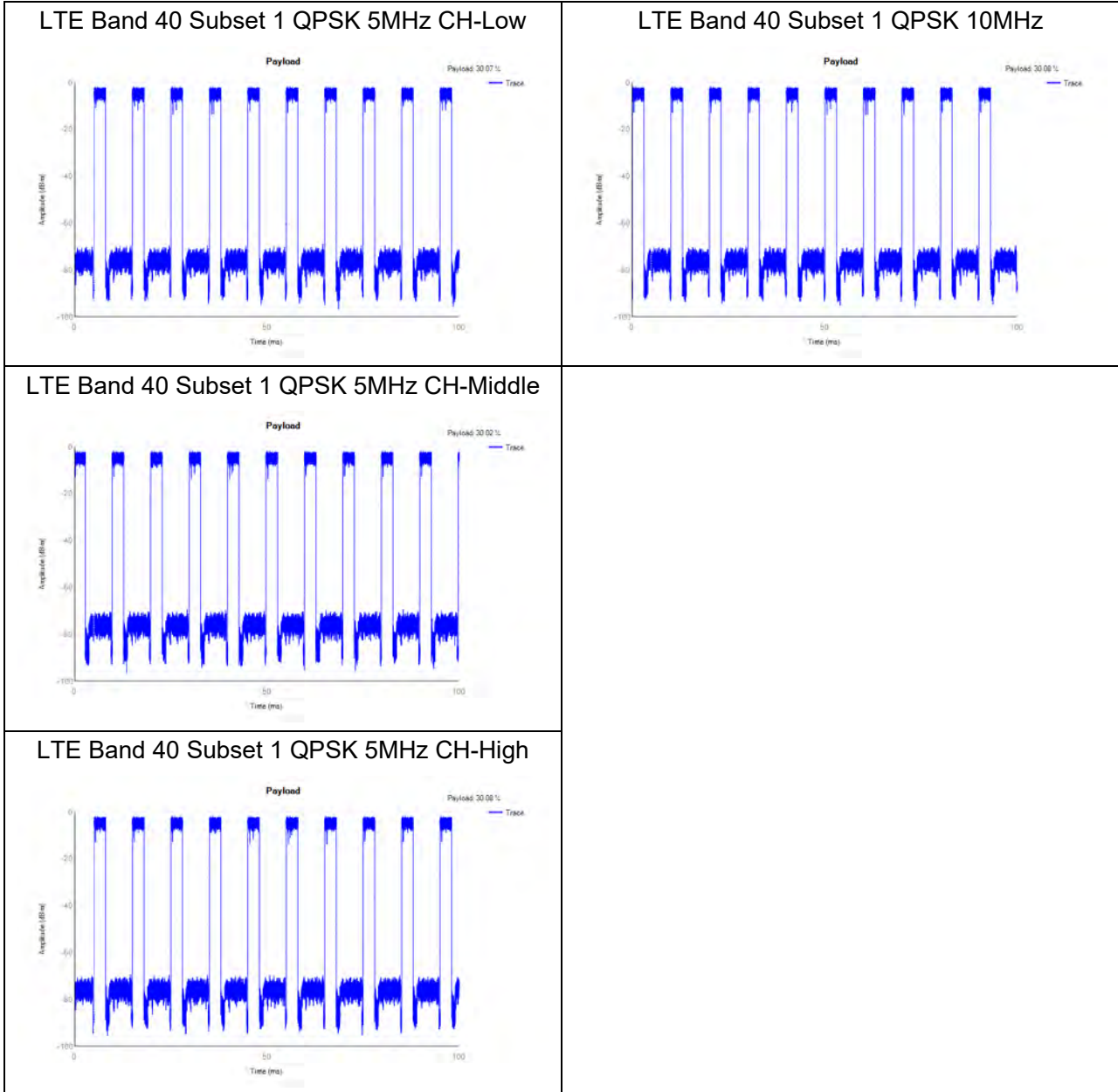
3	132657	8	#Max	16QAM	22.31	24.15
3	132657	15	#0	16QAM	22.03	23.87
5	131997	1	#0	QPSK	23.39	25.23
5	131997	1	#Mid	QPSK	23.45	25.29
5	131997	1	#Max	QPSK	23.43	25.27
5	131997	12	#0	QPSK	22.55	24.39
5	131997	12	#Mid	QPSK	22.57	24.41
5	131997	12	#Max	QPSK	22.67	24.51
5	131997	25	#0	QPSK	22.61	24.45
5	131997	1	#0	16QAM	22.15	23.99
5	131997	1	#Mid	16QAM	22.19	24.03
5	131997	1	#Max	16QAM	22.10	23.94
5	131997	12	#0	16QAM	21.87	23.71
5	131997	12	#Mid	16QAM	21.82	23.66
5	131997	12	#Max	16QAM	21.87	23.71
5	131997	25	#0	16QAM	21.90	23.74
5	132322	1	#0	QPSK	23.72	25.56
5	132322	1	#Mid	QPSK	23.74	25.58
5	132322	1	#Max	QPSK	23.74	25.58
5	132322	12	#0	QPSK	22.72	24.56
5	132322	12	#Mid	QPSK	22.73	24.57
5	132322	12	#Max	QPSK	22.62	24.46
5	132322	25	#0	QPSK	22.60	24.44
5	132322	1	#0	16QAM	22.73	24.57
5	132322	1	#Mid	16QAM	22.78	24.62
5	132322	1	#Max	16QAM	22.82	24.66
5	132322	12	#0	16QAM	21.80	23.64
5	132322	12	#Mid	16QAM	21.80	23.64
5	132322	12	#Max	16QAM	21.84	23.68
5	132322	25	#0	16QAM	21.83	23.67
5	132647	1	#0	QPSK	23.73	25.57
5	132647	1	#Mid	QPSK	23.70	25.54
5	132647	1	#Max	QPSK	23.71	25.55
5	132647	12	#0	QPSK	22.79	24.63
5	132647	12	#Mid	QPSK	22.79	24.63
5	132647	12	#Max	QPSK	22.78	24.62
5	132647	25	#0	QPSK	22.78	24.62
5	132647	1	#0	16QAM	22.71	24.55
5	132647	1	#Mid	16QAM	22.77	24.61
5	132647	1	#Max	16QAM	22.78	24.62
5	132647	12	#0	16QAM	22.02	23.86
5	132647	12	#Mid	16QAM	22.02	23.86
5	132647	12	#Max	16QAM	22.03	23.87

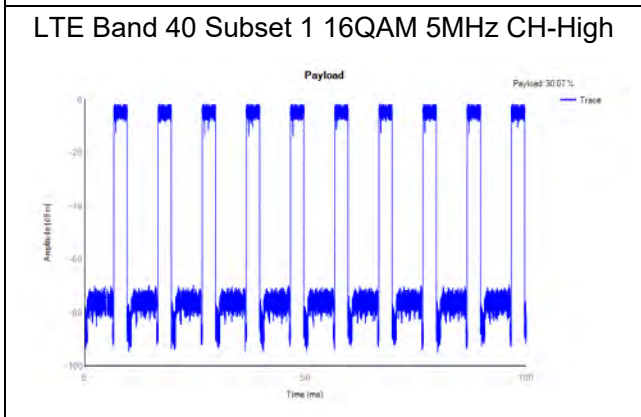
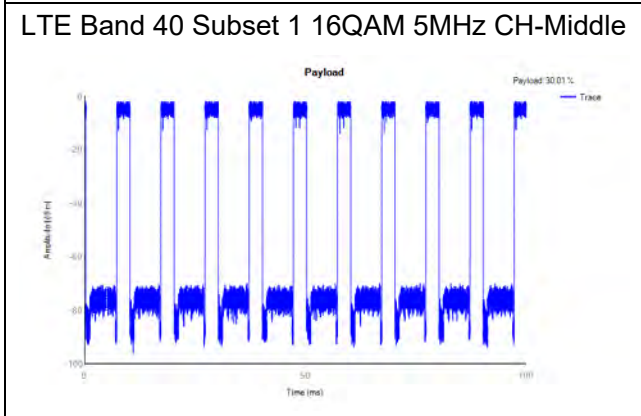
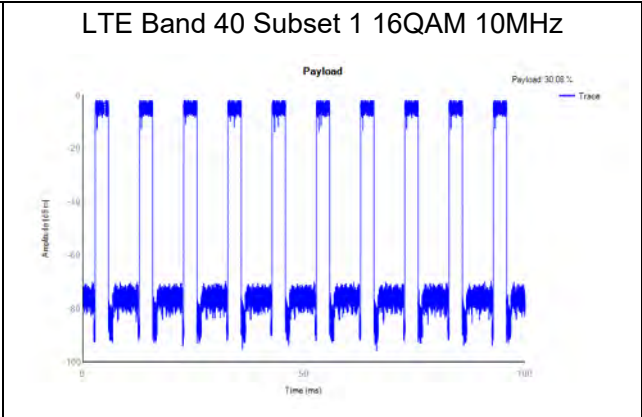
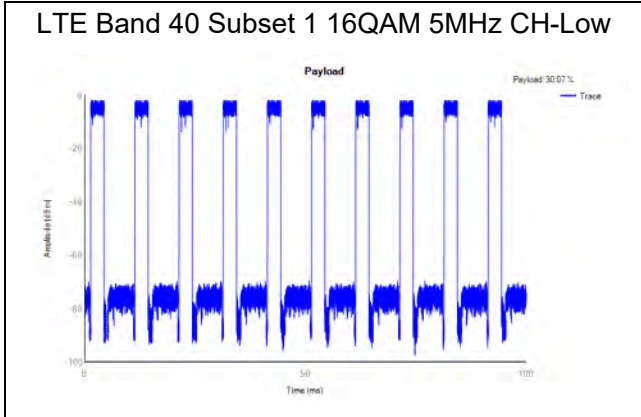
5	132647	25	#0	16QAM	21.98	23.82
10	132022	1	#0	QPSK	23.52	25.36
10	132022	1	#Mid	QPSK	23.53	25.37
10	132022	1	#Max	QPSK	23.55	25.39
10	132022	25	#0	QPSK	22.60	24.44
10	132022	25	#Mid	QPSK	22.62	24.46
10	132022	25	#Max	QPSK	22.61	24.45
10	132022	50	#0	QPSK	22.66	24.50
10	132022	1	#0	16QAM	22.63	24.47
10	132022	1	#Mid	16QAM	22.63	24.47
10	132022	1	#Max	16QAM	22.63	24.47
10	132022	25	#0	16QAM	21.86	23.70
10	132022	25	#Mid	16QAM	21.89	23.73
10	132022	25	#Max	16QAM	21.90	23.74
10	132022	50	#0	16QAM	21.90	23.74
10	132322	1	#0	QPSK	23.53	25.37
10	132322	1	#Mid	QPSK	23.53	25.37
10	132322	1	#Max	QPSK	23.59	25.43
10	132322	25	#0	QPSK	22.63	24.47
10	132322	25	#Mid	QPSK	22.36	24.20
10	132322	25	#Max	QPSK	22.65	24.49
10	132322	50	#0	QPSK	22.61	24.45
10	132322	1	#0	16QAM	23.28	25.12
10	132322	1	#Mid	16QAM	23.27	25.11
10	132322	1	#Max	16QAM	23.31	25.15
10	132322	25	#0	16QAM	21.92	23.76
10	132322	25	#Mid	16QAM	21.93	23.77
10	132322	25	#Max	16QAM	21.99	23.83
10	132322	50	#0	16QAM	21.93	23.77
10	132622	1	#0	QPSK	23.80	25.64
10	132622	1	#Mid	QPSK	23.79	25.63
10	132622	1	#Max	QPSK	23.86	25.70
10	132622	25	#0	QPSK	22.73	24.57
10	132622	25	#Mid	QPSK	22.74	24.58
10	132622	25	#Max	QPSK	22.84	24.68
10	132622	50	#0	QPSK	22.76	24.60
10	132622	1	#0	16QAM	22.29	24.13
10	132622	1	#Mid	16QAM	22.27	24.11
10	132622	1	#Max	16QAM	22.19	24.03
10	132622	25	#0	16QAM	22.13	23.97
10	132622	25	#Mid	16QAM	22.09	23.93
10	132622	25	#Max	16QAM	22.16	24.00
10	132622	50	#0	16QAM	22.11	23.95

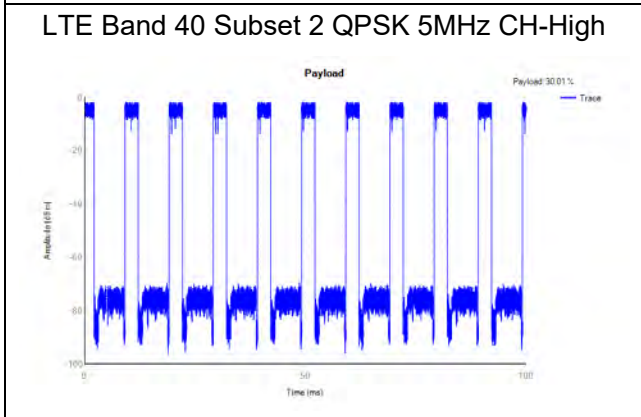
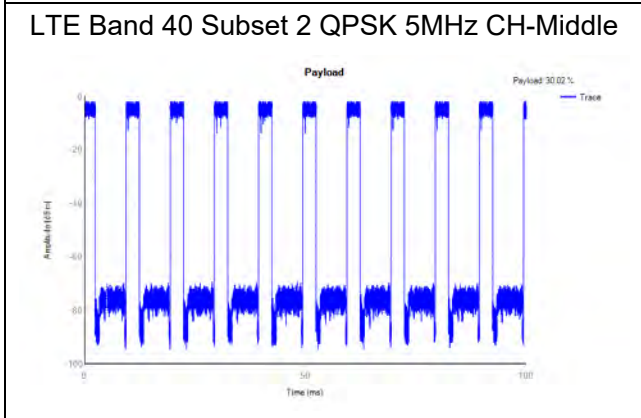
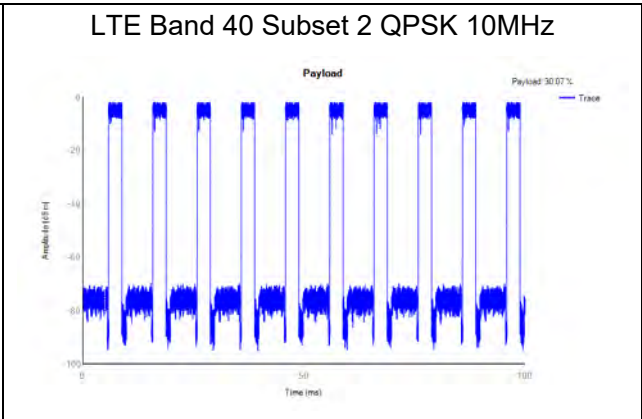
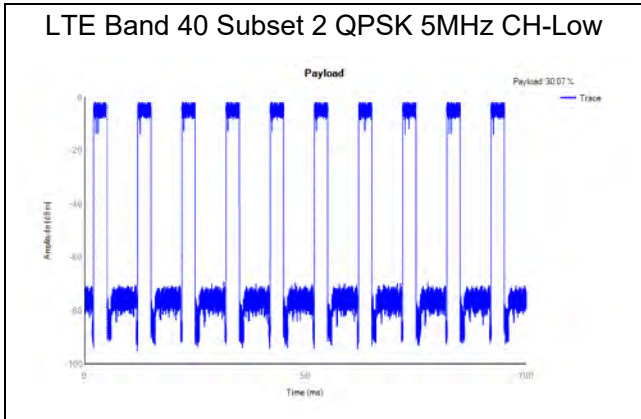
15	132047	1	#0	QPSK	23.57	25.41
15	132047	1	#Mid	QPSK	23.53	25.37
15	132047	1	#Max	QPSK	23.50	25.34
15	132047	36	#0	QPSK	22.56	24.40
15	132047	36	#Mid	QPSK	22.57	24.41
15	132047	36	#Max	QPSK	22.58	24.42
15	132047	75	#0	QPSK	22.52	24.36
15	132047	1	#0	16QAM	22.59	24.43
15	132047	1	#Mid	16QAM	22.57	24.41
15	132047	1	#Max	16QAM	22.55	24.39
15	132047	36	#0	16QAM	21.89	23.73
15	132047	36	#Mid	16QAM	21.88	23.72
15	132047	36	#Max	16QAM	21.81	23.65
15	132047	75	#0	16QAM	21.87	23.71
15	132322	1	#0	QPSK	23.51	25.35
15	132322	1	#Mid	QPSK	23.52	25.36
15	132322	1	#Max	QPSK	23.61	25.45
15	132322	36	#0	QPSK	22.52	24.36
15	132322	36	#Mid	QPSK	22.53	24.37
15	132322	36	#Max	QPSK	22.61	24.45
15	132322	75	#0	QPSK	22.58	24.42
15	132322	1	#0	16QAM	23.26	25.10
15	132322	1	#Mid	16QAM	23.33	25.17
15	132322	1	#Max	16QAM	23.31	25.15
15	132322	36	#0	16QAM	21.96	23.80
15	132322	36	#Mid	16QAM	21.94	23.78
15	132322	36	#Max	16QAM	21.97	23.81
15	132322	75	#0	16QAM	21.98	23.82
15	132597	1	#0	QPSK	23.81	25.65
15	132597	1	#Mid	QPSK	23.82	25.66
15	132597	1	#Max	QPSK	23.80	25.64
15	132597	36	#0	QPSK	22.72	24.56
15	132597	36	#Mid	QPSK	22.75	24.59
15	132597	36	#Max	QPSK	22.76	24.60
15	132597	75	#0	QPSK	22.70	24.54
15	132597	1	#0	16QAM	22.83	24.67
15	132597	1	#Mid	16QAM	22.87	24.71
15	132597	1	#Max	16QAM	22.78	24.62
15	132597	36	#0	16QAM	22.12	23.96
15	132597	36	#Mid	16QAM	22.05	23.89
15	132597	36	#Max	16QAM	22.06	23.90
15	132597	75	#0	16QAM	22.09	23.93
20	132072	1	#0	QPSK	23.69	25.53

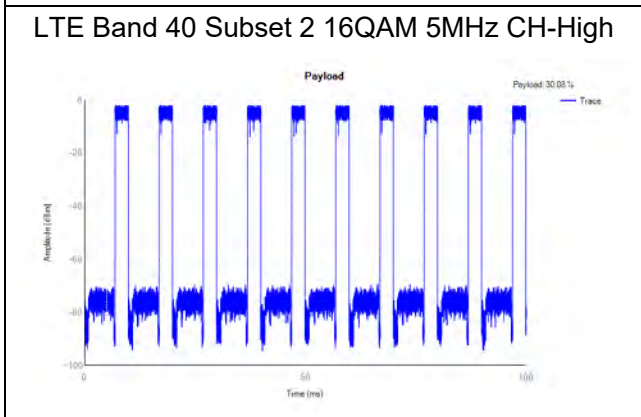
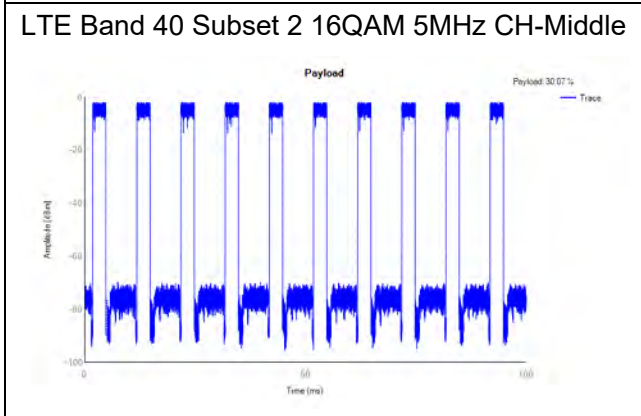
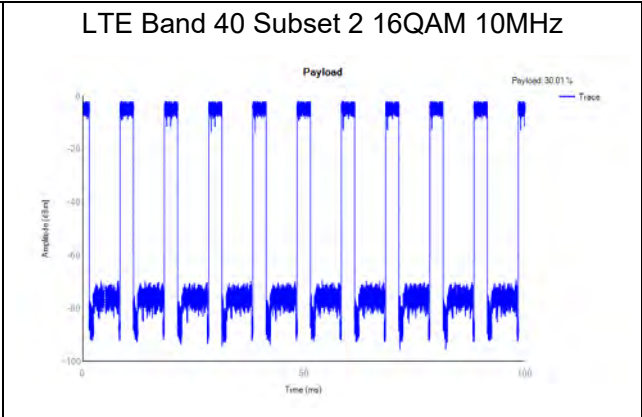
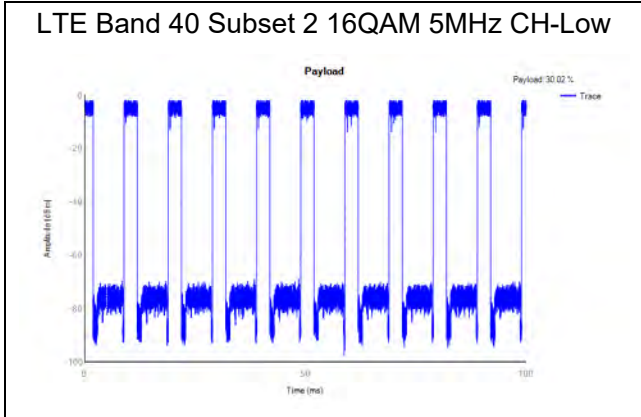
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20	132072	50	#Max	QPSK	22.63	24.47
20	132072	100	#0	QPSK	22.51	24.35
20	132072	1	#0	16QAM	22.34	24.18
20	132072	1	#Mid	16QAM	22.36	24.20
20	132072	1	#Max	16QAM	22.39	24.23
20	132072	50	#0	16QAM	21.93	23.77
20	132072	50	#Mid	16QAM	21.94	23.78
20	132072	50	#Max	16QAM	21.98	23.82
20	132072	100	#0	16QAM	21.85	23.69
20	132322	1	#0	QPSK	23.86	25.70
20	132322	1	#Mid	QPSK	23.92	25.76
20	132322	1	#Max	QPSK	23.93	25.77
20	132322	50	#0	QPSK	22.66	24.50
20	132322	50	#Mid	QPSK	22.67	24.51
20	132322	50	#Max	QPSK	22.68	24.52
20	132322	100	#0	QPSK	22.67	24.51
20	132322	1	#0	16QAM	22.17	24.01
20	132322	1	#Mid	16QAM	22.17	24.01
20	132322	1	#Max	16QAM	22.15	23.99
20	132322	50	#0	16QAM	21.82	23.66
20	132322	50	#Mid	16QAM	21.83	23.67
20	132322	50	#Max	16QAM	21.86	23.70
20	132322	100	#0	16QAM	21.81	23.65
20	132572	1	#0	QPSK	23.90	25.74
20	132572	1	#Mid	QPSK	23.82	25.66
20	132572	1	#Max	QPSK	23.87	25.71
20	132572	50	#0	QPSK	22.81	24.65
20	132572	50	#Mid	QPSK	22.83	24.67
20	132572	50	#Max	QPSK	22.80	24.64
20	132572	100	#0	QPSK	22.76	24.60
20	132572	1	#0	16QAM	22.48	24.32
20	132572	1	#Mid	16QAM	22.61	24.45
20	132572	1	#Max	16QAM	22.67	24.51
20	132572	50	#0	16QAM	22.12	23.96
20	132572	50	#Mid	16QAM	22.13	23.97
20	132572	50	#Max	16QAM	22.11	23.95
20	132572	100	#0	16QAM	22.07	23.91

Duty Cycle









LTE Band 40 Subset 1				Maximum Output Power (dBm/MHz)			EIRP Power SpectralDensity (dBm)/5MHz			EIRP Power Spectral Density(mW)/5MHz			Limit (mW /MHz)
BW	Mddulation	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	17.88	17.01	17.23	18.34	17.47	17.69	68.25	55.81	58.68	250
	16QAM	25	0	16.93	16.06	16.51	17.39	16.52	16.97	54.84	44.85	49.80	250
BW	Mddulation	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	14.76			15.22			33.24			250
	16QAM	50	0	15.48			15.94			39.25			250

LTE Band 40 Subset 1				Maximum Output Power (dBm/5MHz)			EIRP Power SpectralDensity (dBm)/5MHz			EIRP Power Spectral Density(mW)/5MHz			Limit (mW /5MHz)
BW	Mddulation	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	19.71	19.93	19.92	20.17	20.39	20.38	104.02	109.50	109.14	250
	16QAM	25	0	19.94	19.91	19.56	20.40	20.37	20.02	109.52	108.89	100.55	250
BW	Mddulation	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	18.26			18.72			74.52			250
	16QAM	50	0	16.80			17.26			53.16			250

LTE Band 40 Subset 2				Maximum Output Power (dBm/MHz)			EIRP Power SpectralDensity (dBm)/5MHz			EIRP Power Spectral Density(mW)/5MHz			Limit (mW /MHz)
BW	Mddulation	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	18.92	20.07	17.44	19.38	20.53	17.90	86.64	113.03	61.72	250
	16QAM	25	0	17.58	18.72	17.05	18.04	19.18	17.51	63.68	82.83	56.40	250
BW	Mddulation	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	16.50			16.96			49.70			250
	16QAM	50	0	15.06			15.52			35.67			250

LTE Band 40 Subset 2				Maximum Output Power (dBm/5MHz)			EIRP Power SpectralDensity (dBm)/5MHz			EIRP Power Spectral Density(mW)/5MHz			Limit (mW /5MHz)
BW	Mddulation	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	22.05	22.00	21.85	22.51	22.46	22.31	178.40	176.20	170.33	250
	16QAM	25	0	21.64	21.66	22.33	22.10	22.12	22.79	162.11	162.74	190.02	250
BW	Mddulation	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	19.92			20.38			109.24			250
	16QAM	50	0	19.83			20.29			106.81			250

EIRP (dBm/MHz)

LTE Band 40 Subset 1 QPSK 5MHz CH-Low



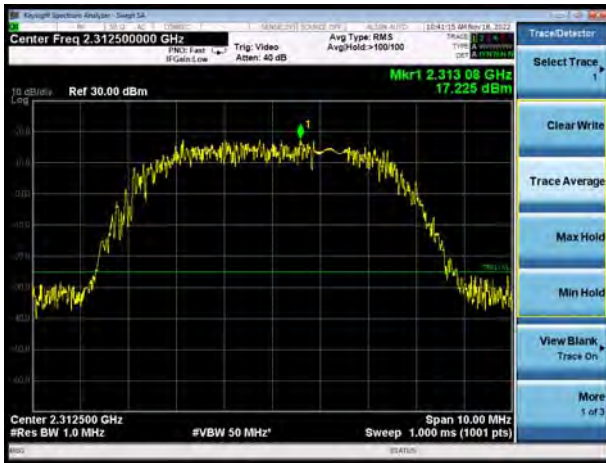
LTE Band 40 Subset 1 QPSK 10MHz



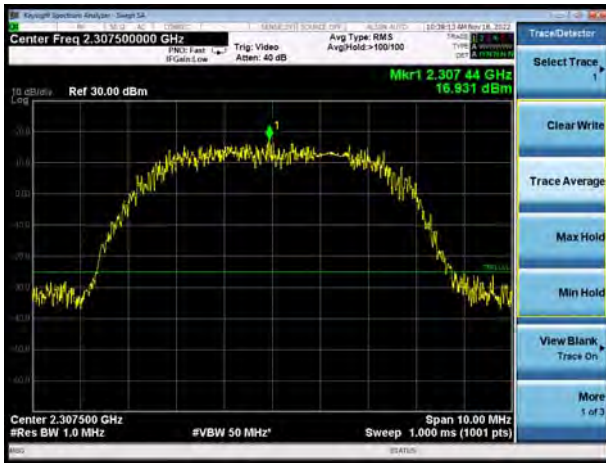
LTE Band 40 Subset 1 QPSK 5MHz CH-Middle



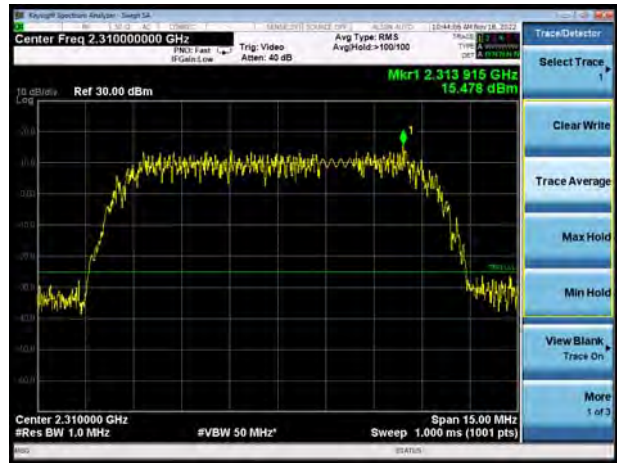
LTE Band 40 Subset 1 QPSK 5MHz CH-High



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



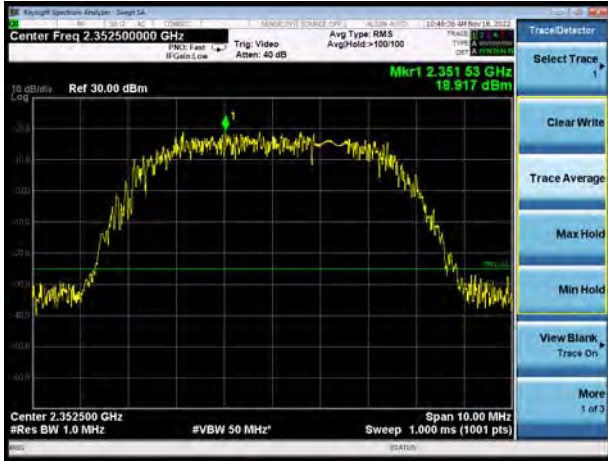
LTE Band 40 Subset 1 16QAM 5MHz CH-High



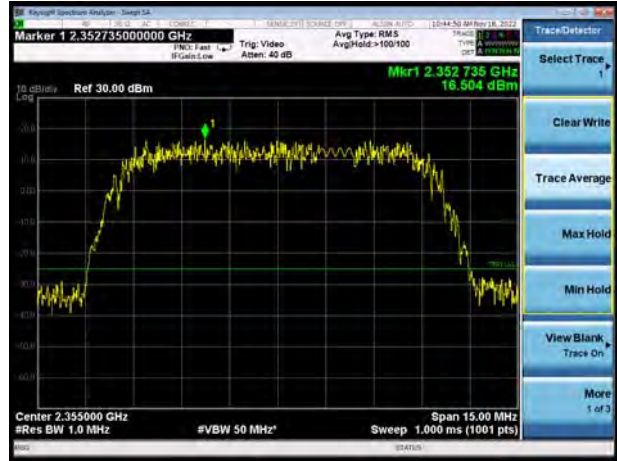
RF Test Report

Report No.: R2209A0873-R3V2

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

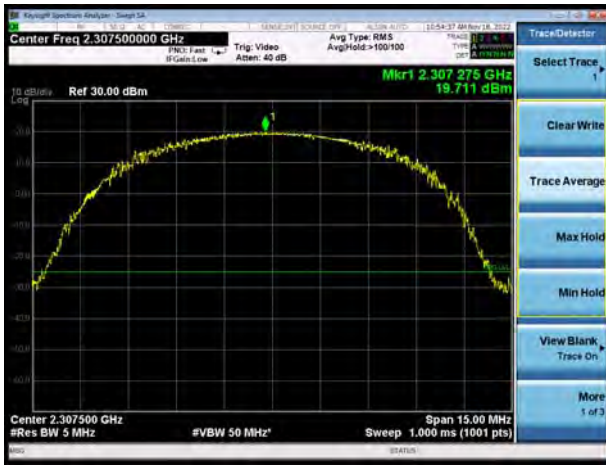


LTE Band 40 Subset 2 16QAM 5MHz CH-High

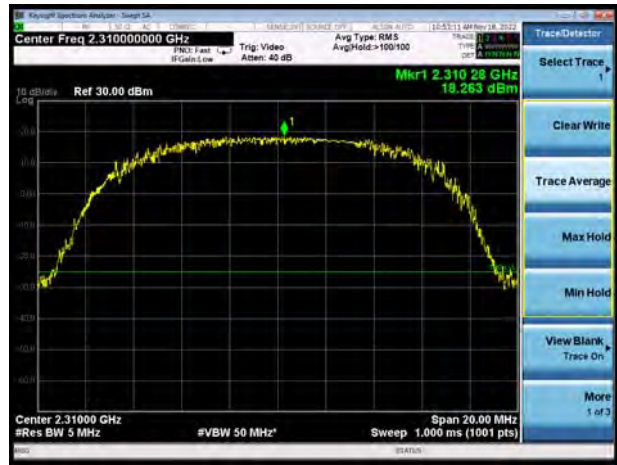


EIRP (dBm/5MHz)

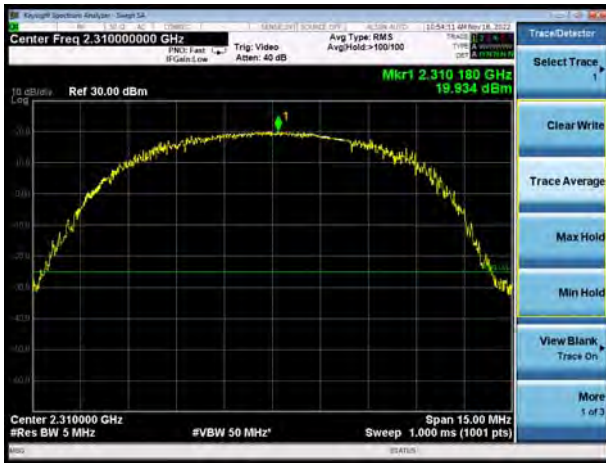
LTE Band 40 Subset 1 QPSK 5MHz CH-Low



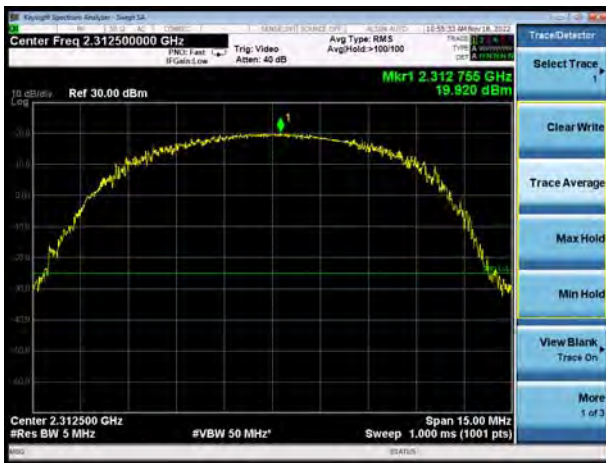
LTE Band 40 Subset 1 QPSK 10MHz



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



RF Test Report

Report No.: R2209A0873-R3V2

LTE Band 40 Subset 2 QPSK 5MHz CH-Low



LTE Band 40 Subset 2 QPSK 10MHz



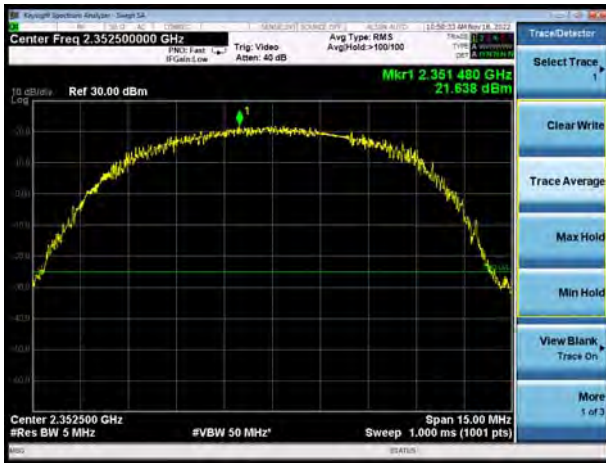
LTE Band 40 Subset 2 QPSK 5MHz CH-Middle



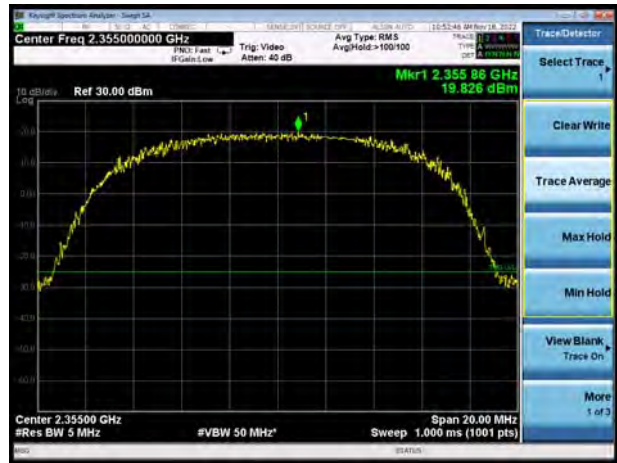
LTE Band 40 Subset 2 QPSK 5MHz CH-High



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



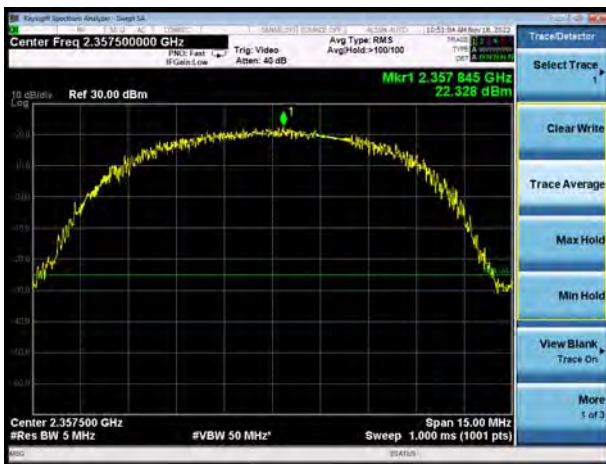
LTE Band 40 Subset 2 16QAM 10MHz



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	4.143	4.640
	1413	1732.6	4.129	4.638
	1513	1752.6	4.146	4.642

LTE Band 4						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	19957	1710.7	1.092	1.250
			20175	1732.5	1.093	1.248
			20393	1754.3	1.098	1.249
		3	19965	1711.5	2.710	3.046
			20175	1732.5	2.723	3.036
			20385	1753.5	2.721	3.021
		5	19975	1712.5	4.518	4.936
			20175	1732.5	4.516	4.923
			20375	1752.5	4.515	4.913
		10	20000	1715	9.032	9.929
			20175	1732.5	8.971	9.822
			20350	1750	9.000	9.777
		15	20025	1717.5	13.469	14.814
			20175	1732.5	13.456	14.820
			20325	1747.5	13.470	14.903
		20	20050	1720	18.070	19.656
			20175	1732.5	18.001	19.448
			20300	1745	18.033	19.628
	16QAM	1.4	19957	1710.7	1.100	1.248
			20175	1732.5	1.098	1.244
			20393	1754.3	1.100	1.254
		3	19965	1711.5	2.696	3.035
			20175	1732.5	2.707	3.037
			20385	1753.5	2.709	3.072
5		19975	1712.5	4.511	4.993	
		20175	1732.5	4.515	4.988	
		20375	1752.5	4.514	4.985	
10		20000	1715	8.990	9.908	
		20175	1732.5	9.015	9.680	

		15	20350	1750	9.007	9.797
			20025	1717.5	13.483	14.748
			20175	1732.5	13.467	14.722
		20	20325	1747.5	13.472	14.842
			20050	1720	18.039	19.519
			20175	1732.5	17.972	19.418
			20300	1745	17.980	19.579

LTE Band 7						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	20775	2502.5	4.497	4.932
			21100	2535	4.513	4.947
			21425	2567.5	4.513	4.962
		10	20800	2505	8.983	9.868
			21100	2535	8.993	9.879
			21400	2565	8.969	9.827
		15	20825	2507.5	13.476	14.855
			21100	2535	13.488	14.730
			21375	2562.5	13.497	14.762
		20	20850	2510	17.954	19.588
			21100	2535	17.972	19.593
			21350	2560	18.024	19.698
	16QAM	5	20775	2502.5	4.515	4.927
			21100	2535	4.522	4.988
			21425	2567.5	4.515	4.979
		10	20800	2505	8.988	9.805
			21100	2535	8.981	9.789
			21400	2565	8.975	9.891
		15	20825	2507.5	13.469	14.747
			21100	2535	13.488	14.840
			21375	2562.5	13.509	14.689
		20	20850	2510	17.993	19.613
			21100	2535	17.979	19.635
			21350	2560	18.003	19.703

LTE Band 38						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	37775	2572.5	4.493	4.942
			38000	2595	4.521	4.900
			38225	2617.5	4.486	4.901
		10	37800	2575	8.996	9.841
			38000	2595	8.995	9.715
			38200	2615	9.002	10.808
		15	37825	2577.5	13.480	15.006
			38000	2595	13.457	14.463
			38175	2612.5	13.468	15.166
		20	37850	2580	17.956	19.539
			38000	2595	17.979	19.515
			38150	2610	17.970	19.524
	16QAM	5	37775	2572.5	4.492	4.927
			38000	2595	4.505	4.972
			38225	2617.5	4.501	4.913
		10	37800	2575	9.011	9.859
			38000	2595	8.980	9.750
			38200	2615	9.013	9.778
		15	37825	2577.5	13.465	14.609
			38000	2595	13.489	14.690
			38175	2612.5	13.478	14.539
		20	37850	2580	18.000	19.650
			38000	2595	17.979	19.581
			38150	2610	17.988	19.479

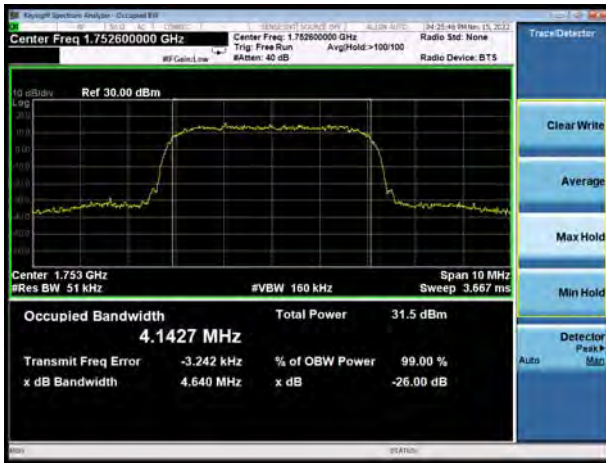
LTE Band 40 Subset 1						
RB	Modulation	Bandwidth	Channel	Frequency (MHz)	99% Power	-26dBc Bandwidth(MHz)
		(MHz)			Bandwidth(MHz)	
100%	QPSK	5	38725	2307.5	4.510	5.215
			38750	2310	4.502	4.859
			38775	2312.5	4.493	4.917
		10	38750	2310	9.007	9.736
	16QAM	5	38725	2307.5	4.492	4.963
			38750	2310	4.513	4.950
			38775	2312.5	4.502	4.944
		10	38750	2310	9.001	9.735

LTE Band 40 Subset 2						
RB	Modulation	Bandwidth	Channel	Frequency (MHz)	99% Power	-26dBc Bandwidth(MHz)
		(MHz)			Bandwidth(MHz)	
100%	QPSK	5	39175	2352.5	4.498	5.292
			39200	2355	4.508	4.908
			39225	2357.5	4.491	4.934
		10	39200	2355	9.007	10.104
	16QAM	5	39175	2352.5	4.502	4.925
			39200	2355	4.499	4.971
			39225	2357.5	4.519	4.866
		10	39200	2355	8.961	9.961

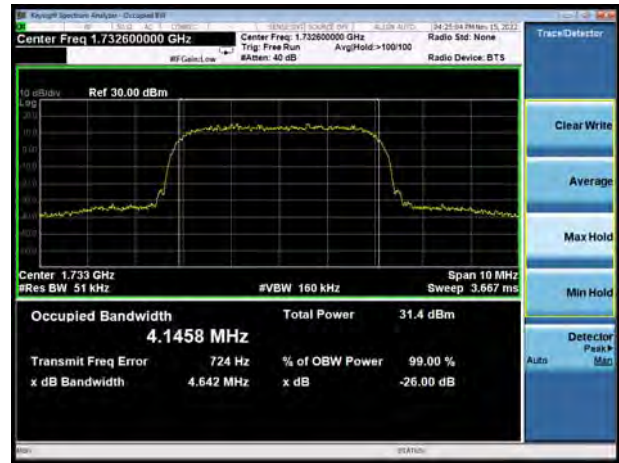
LTE Band 41						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	39675	2498.5	4.509	4.899
			40620	2593	4.494	4.916
			41565	2687.5	4.506	4.944
		10	39700	2501	8.957	9.972
			40620	2593	9.009	9.900
			41540	2685	8.995	10.091
		15	39725	2503.5	13.455	14.739
			40620	2593	13.498	14.879
			41515	2682.5	13.469	15.011
		20	39750	2506	17.939	19.671
			40620	2593	17.965	19.347
			41490	2680	17.992	19.487
	16QAM	5	39675	2498.5	4.502	4.934
			40620	2593	4.488	4.926
			41565	2687.5	4.494	4.889
		10	39700	2501	9.000	9.866
			40620	2593	8.977	9.864
			41540	2685	8.990	9.823
		15	39725	2503.5	13.454	14.618
			40620	2593	13.516	14.807
			41515	2682.5	13.466	14.627
		20	39750	2506	17.985	19.519
			40620	2593	17.956	19.526
			41490	2680	18.025	19.099

LTE Band 66						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	131979	1710.7	1.099	1.253
			132322	1745	1.092	1.250
			132665	1779.3	1.099	1.246
		3	131987	1711.5	2.708	3.008
			132322	1745	2.702	3.062
			132657	1778.5	2.711	3.041
		5	131997	1712.5	4.515	4.972
			132322	1745	4.504	4.904
			132647	1777.5	4.518	4.959
		10	132022	1715	9.005	9.777
			132322	1745	8.978	9.826
			132622	1775	9.025	9.949
		15	132047	1717.5	13.489	14.719
			132322	1745	13.456	14.798
			132597	1772.5	13.513	14.970
		20	132072	1720	18.061	19.590
			132322	1745	17.917	19.514
			132572	1770	18.030	19.745
	16QAM	1.4	131979	1710.7	1.100	1.258
			132322	1745	1.094	1.242
			132665	1779.3	1.098	1.254
		3	131987	1711.5	2.711	3.028
			132322	1745	2.700	3.021
			132657	1778.5	2.720	3.027
		5	131997	1712.5	4.524	4.939
			132322	1745	4.514	4.925
			132647	1777.5	4.512	4.986
10		132022	1715	8.995	9.838	
		132322	1745	8.994	9.847	
		132622	1775	9.011	9.940	
15		132047	1717.5	13.459	14.908	
		132322	1745	13.493	14.872	
		132597	1772.5	13.521	14.641	
20		132072	1720	17.965	19.665	
		132322	1745	17.968	19.715	
		132572	1770	17.998	19.684	

WCDMA Band IV CH-Low



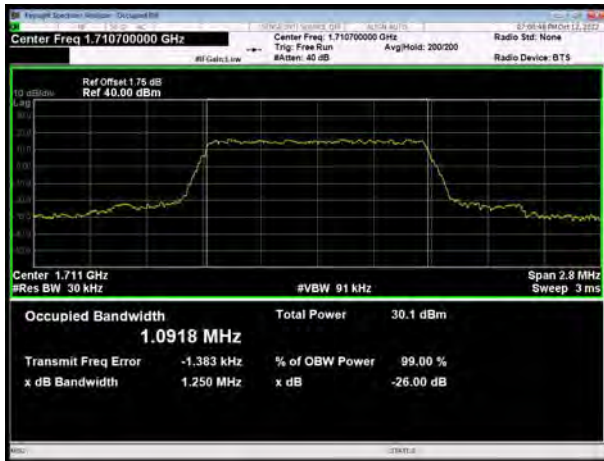
WCDMA Band IV CH Middle



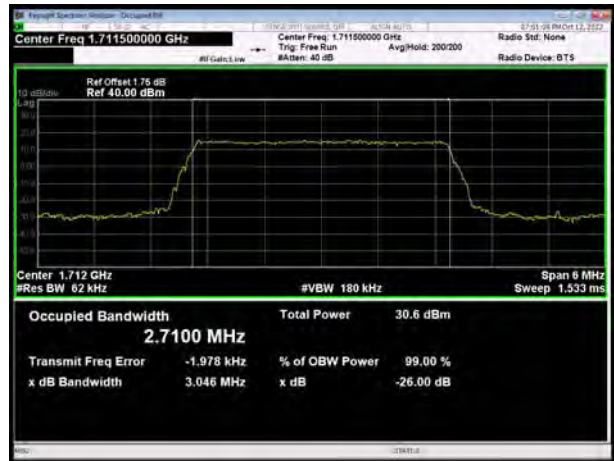
WCDMA Band IV CH High



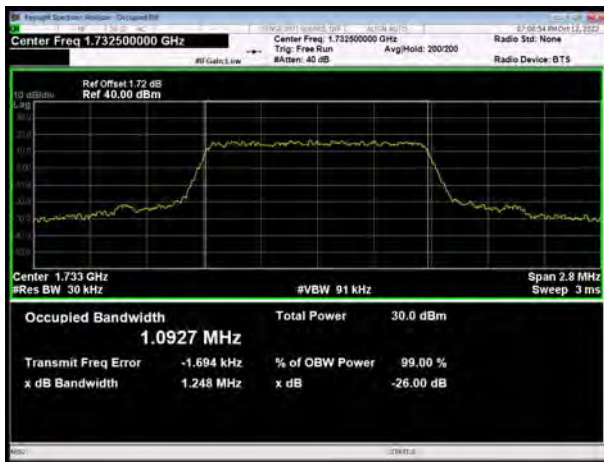
LTE Band 4 QPSK 1.4MHz CH-Low



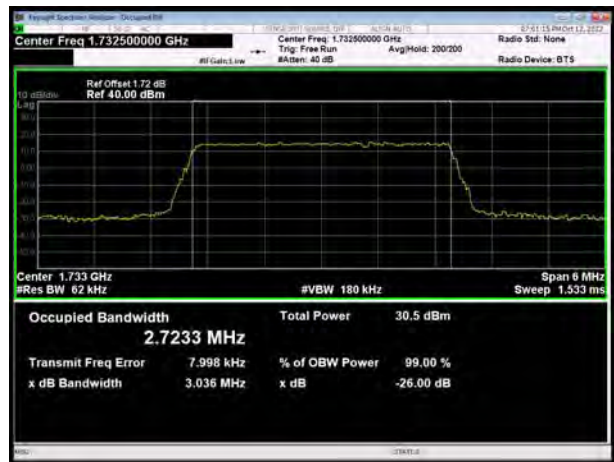
LTE Band 4 QPSK 3MHz CH-Low



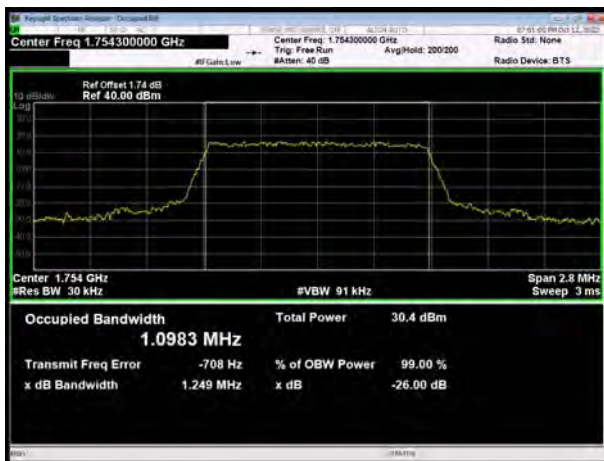
LTE Band 4 QPSK 1.4MHz CH-Middle



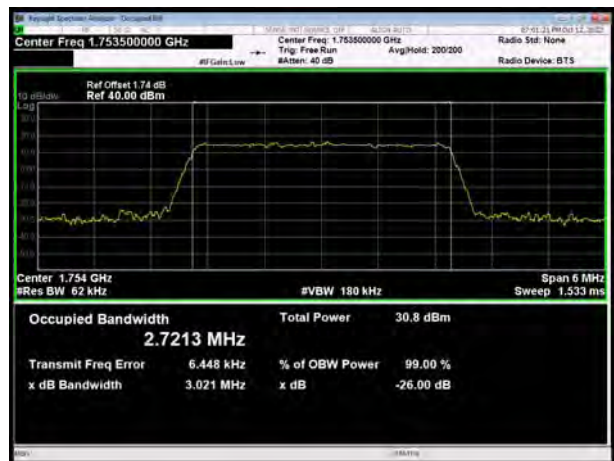
LTE Band 4 QPSK 3MHz CH-Middle



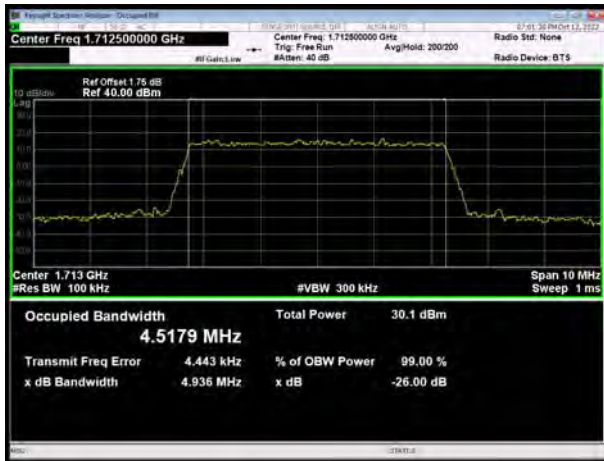
LTE Band 4 QPSK 1.4MHz CH-High



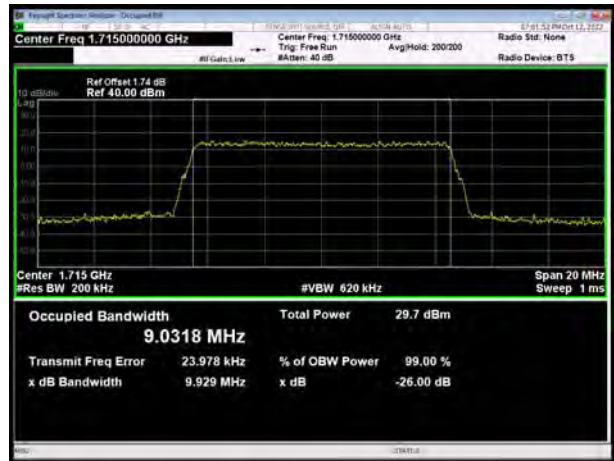
LTE Band 4 QPSK 3MHz CH-High



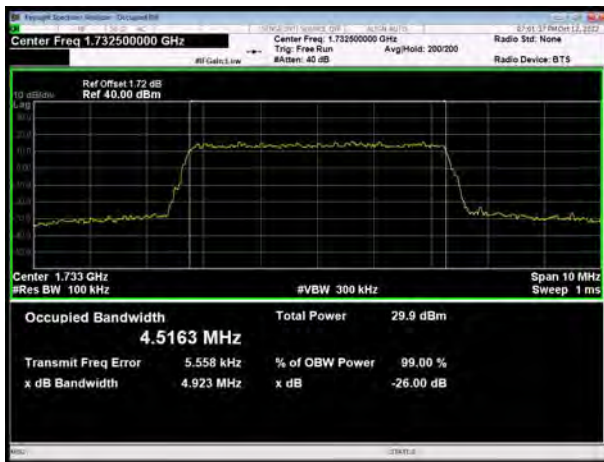
LTE Band 4 QPSK 5MHz CH-Low



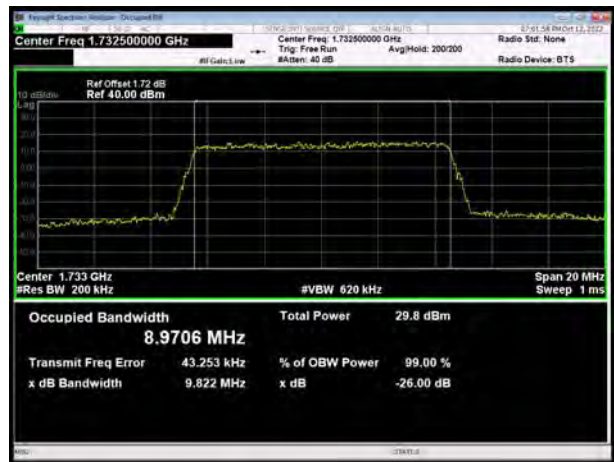
LTE Band 4 QPSK 10MHz CH-Low



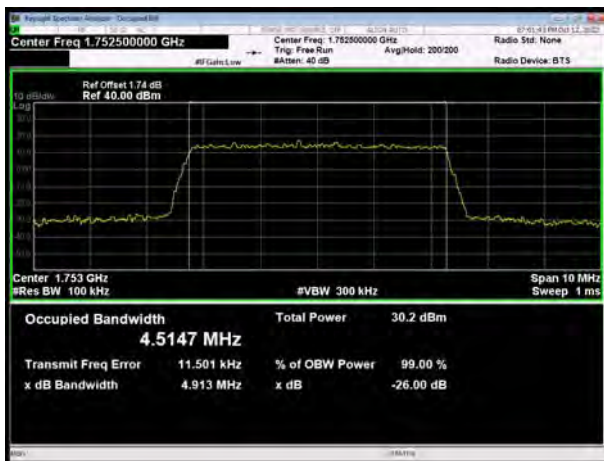
LTE Band 4 QPSK 5MHz CH-Middle



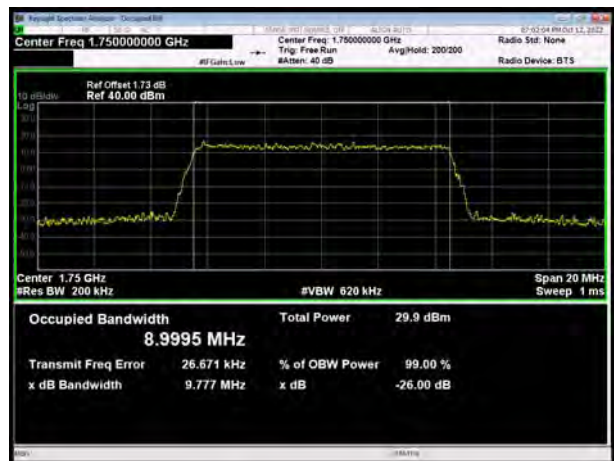
LTE Band 4 QPSK 10MHz CH-Middle



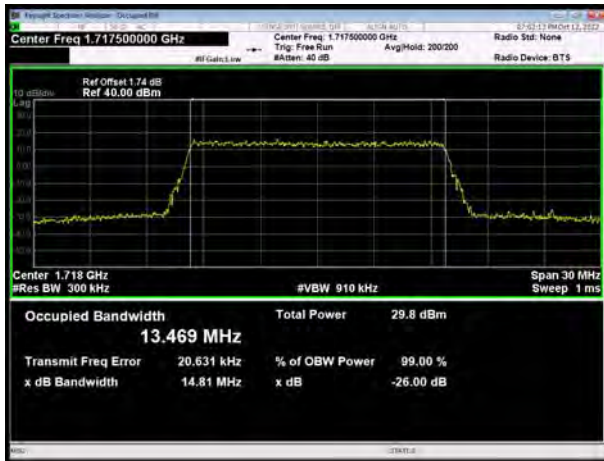
LTE Band 4 QPSK 5MHz CH-High



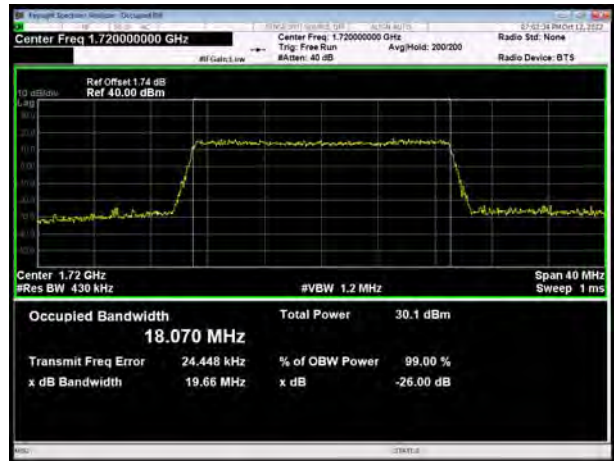
LTE Band 4 QPSK 10MHz CH-High



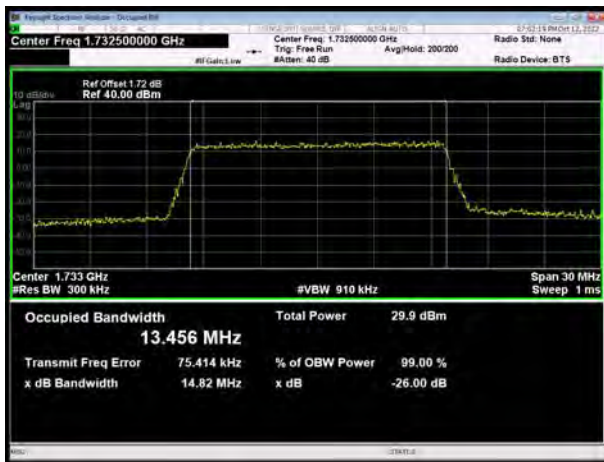
LTE Band 4 QPSK 15MHz CH-Low



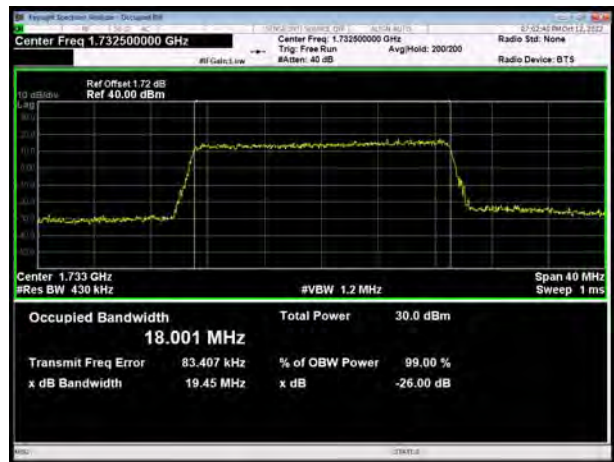
LTE Band 4 QPSK 20MHz CH-Low



LTE Band 4 QPSK 15MHz CH-Middle



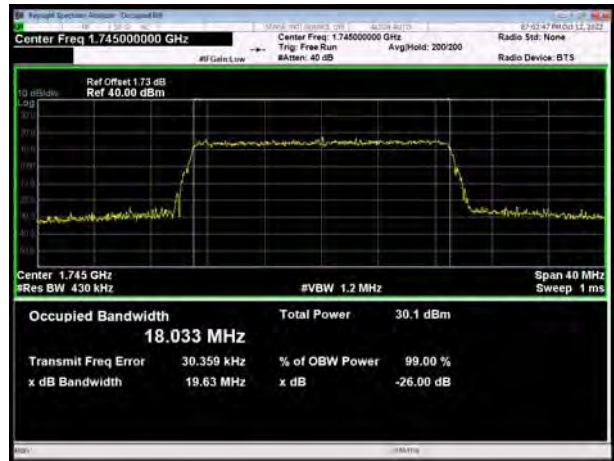
LTE Band 4 QPSK 20MHz CH-Middle



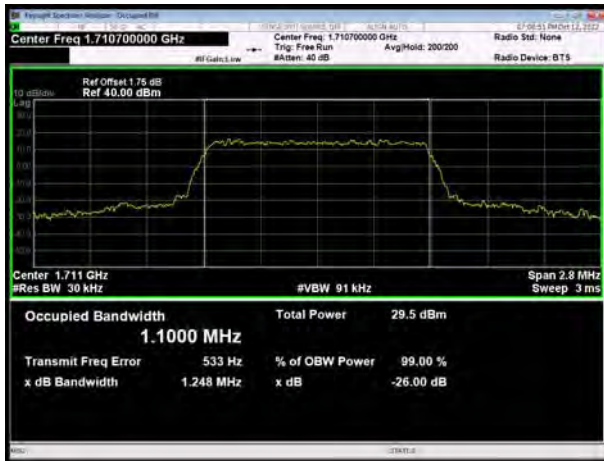
LTE Band 4 QPSK 15MHz CH-High



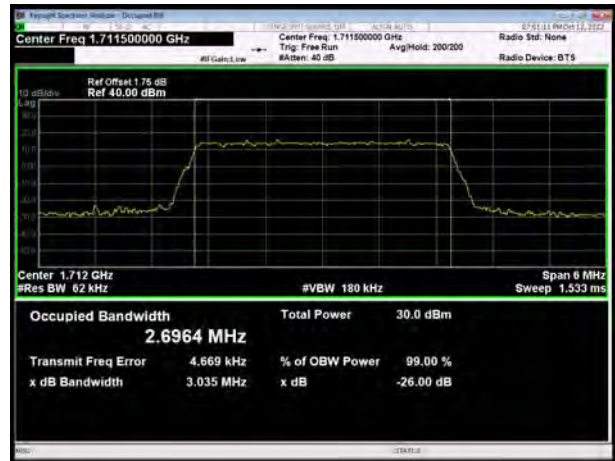
LTE Band 4 QPSK 20MHz CH-High



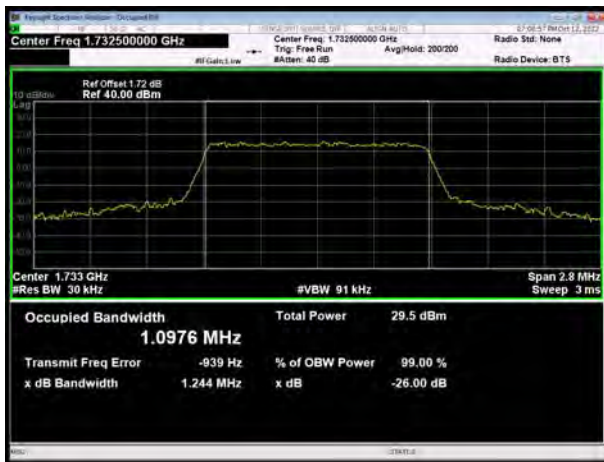
LTE Band 4 16QAM 1.4MHz CH-Low



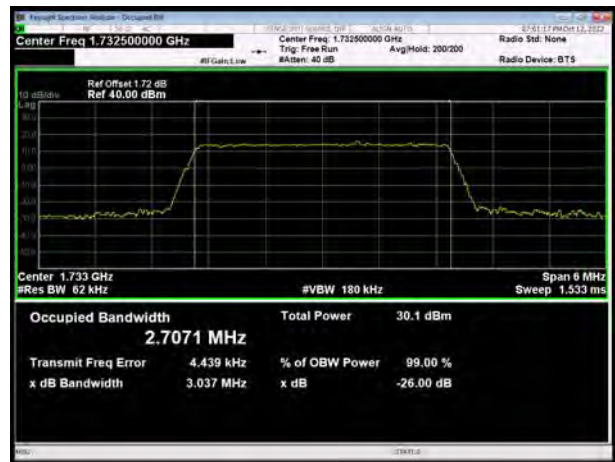
LTE Band 4 16QAM 3MHz CH-Low



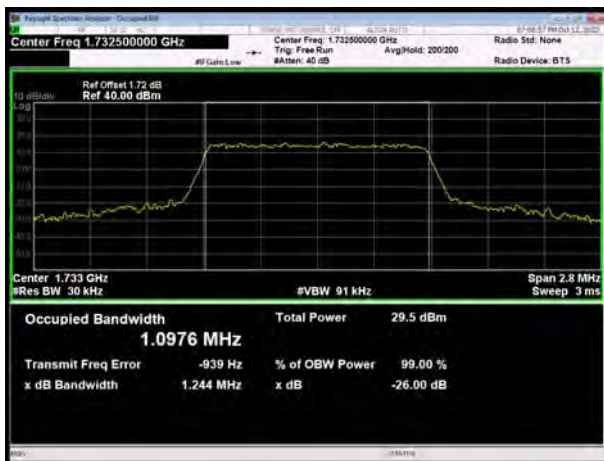
LTE Band 4 16QAM 1.4MHz CH-Middle



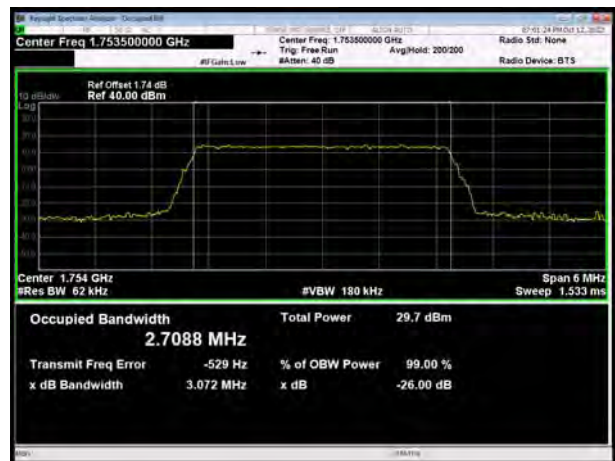
LTE Band 4 16QAM 3MHz CH-Middle



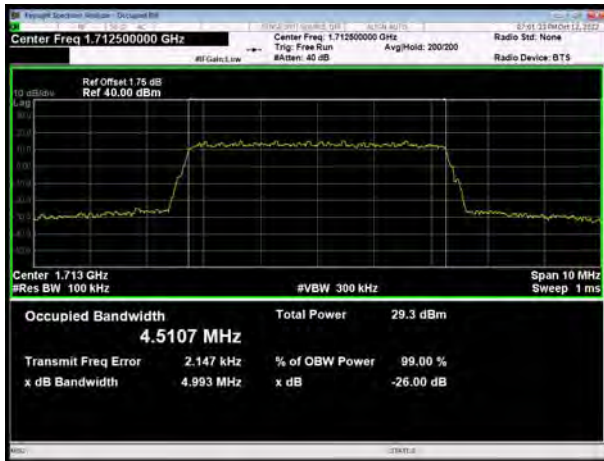
LTE Band 4 16QAM 1.4MHz CH-High



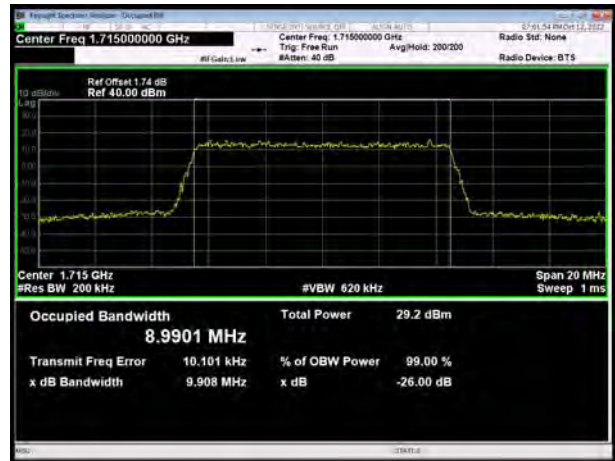
LTE Band 4 16QAM 3MHz CH-High



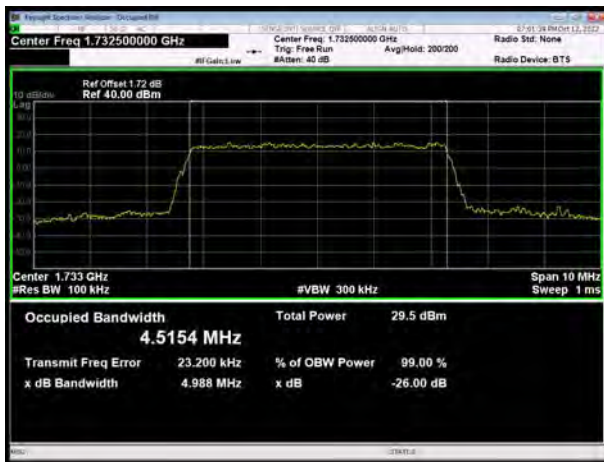
LTE Band 4 16QAM 5MHz CH-Low



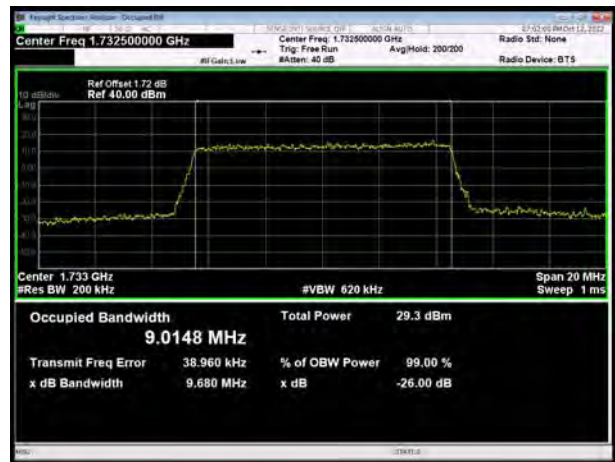
LTE Band 4 16QAM 10MHz CH-Low



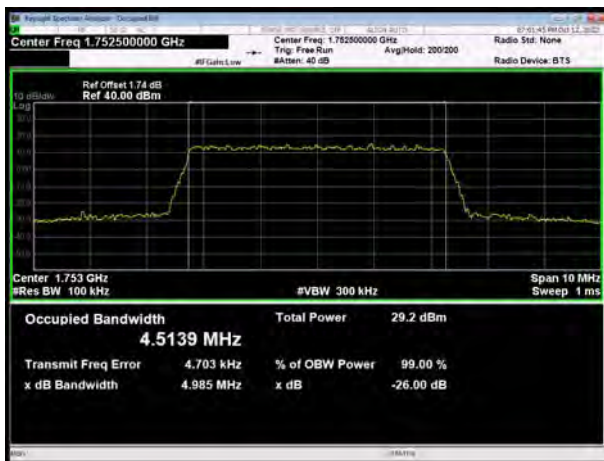
LTE Band 4 16QAM 5MHz CH-Middle



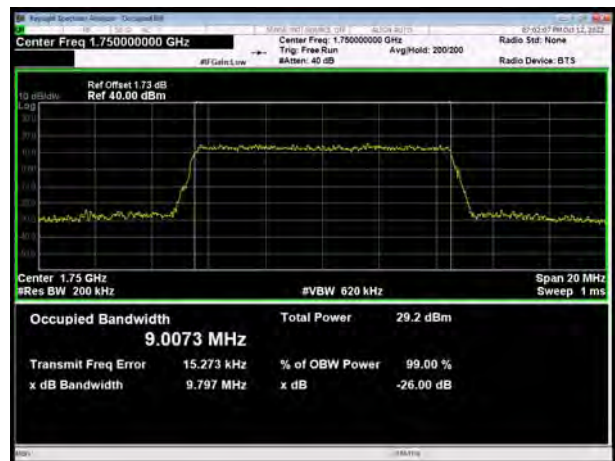
LTE Band 4 16QAM 10MHz CH-Middle



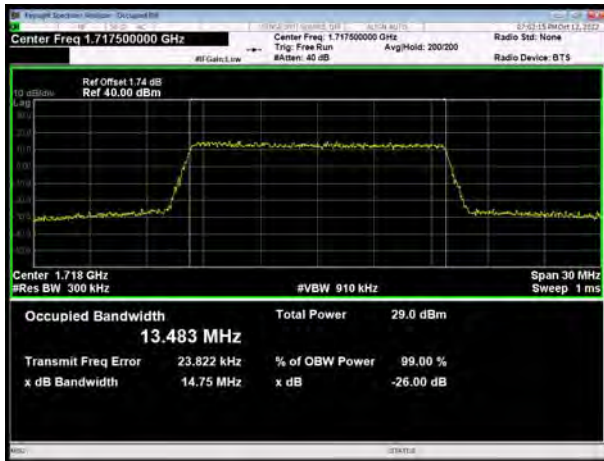
LTE Band 4 16QAM 5MHz CH-High



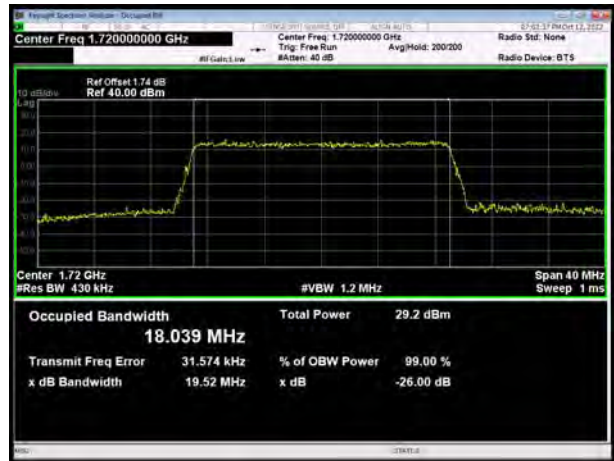
LTE Band 4 16QAM 10MHz CH-High



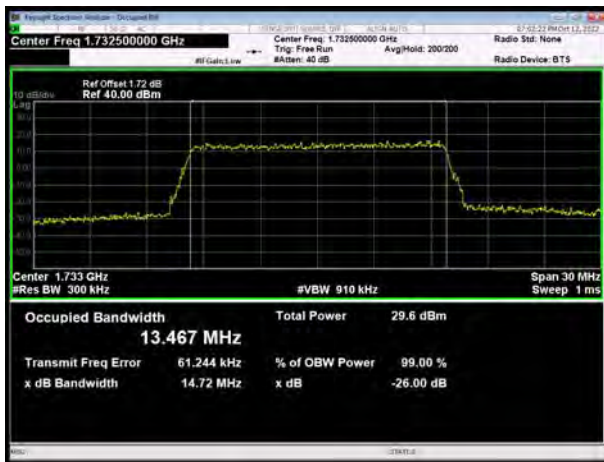
LTE Band 4 16QAM 15MHz CH-Low



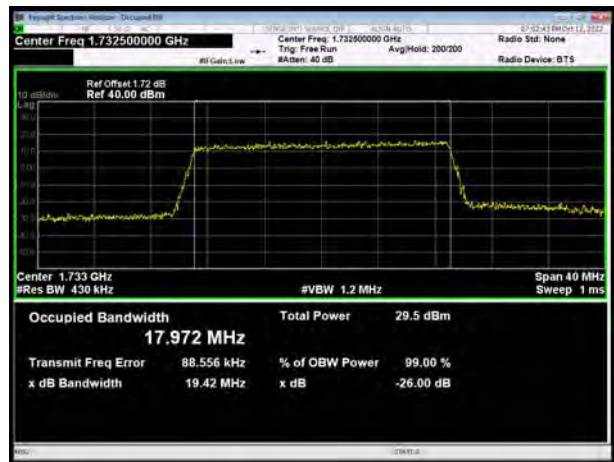
LTE Band 4 16QAM 20MHz CH-Low



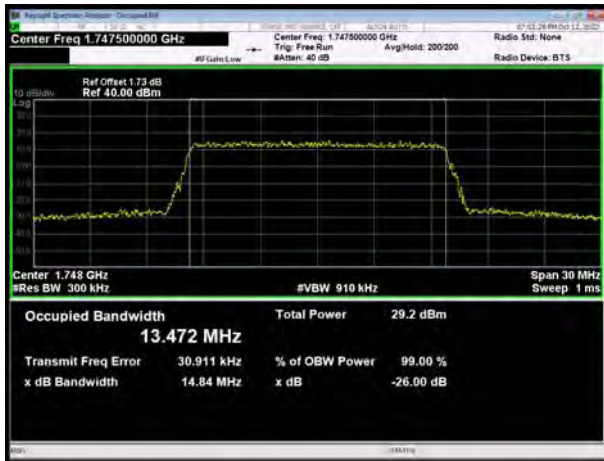
LTE Band 4 16QAM 15MHz CH-Middle



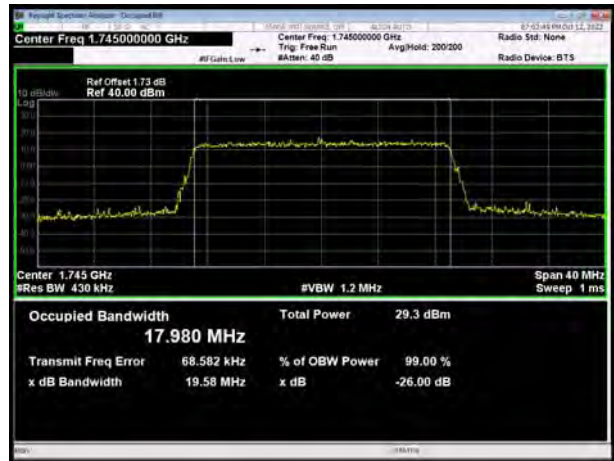
LTE Band 4 16QAM 20MHz CH-Middle



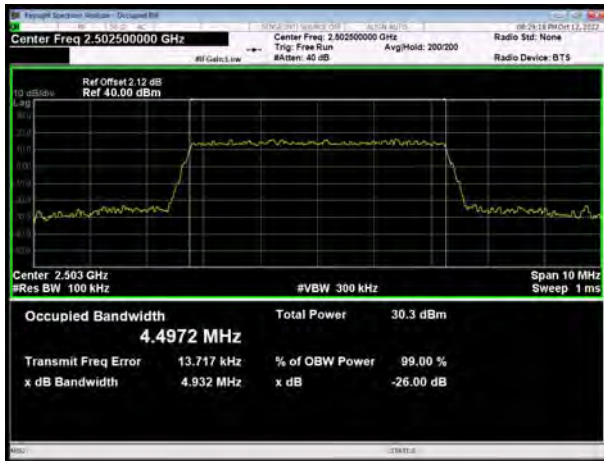
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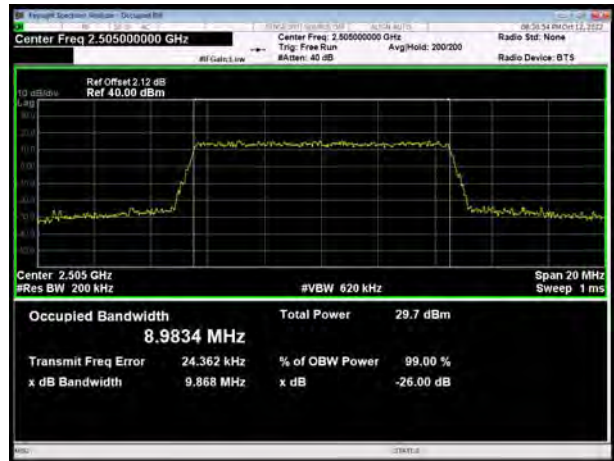
LTE Band 4 16QAM 20MHz CH-High



LTE Band 7 QPSK 5MHz CH-Low



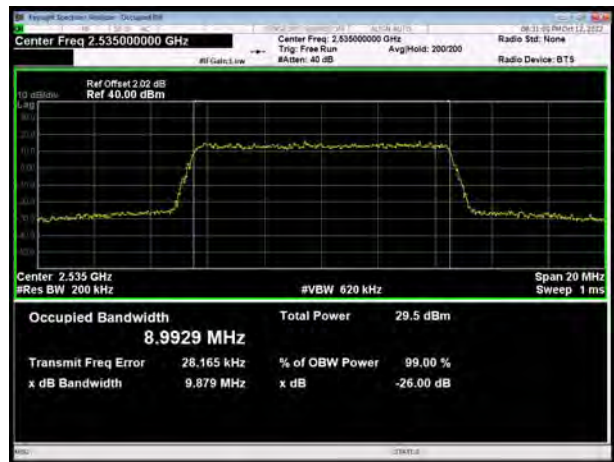
LTE Band 7 QPSK 10MHz CH-Low



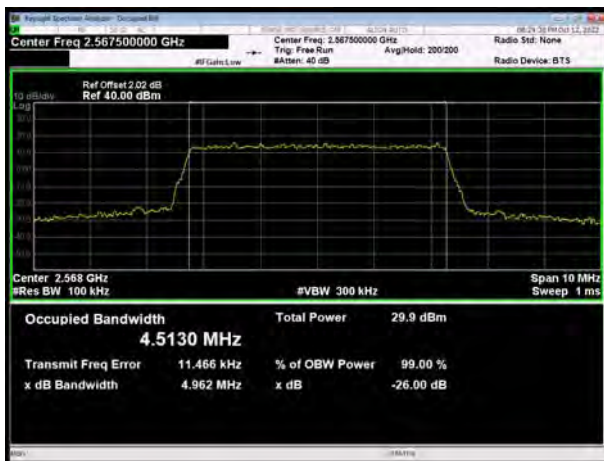
LTE Band 7 QPSK 5MHz CH-Middle



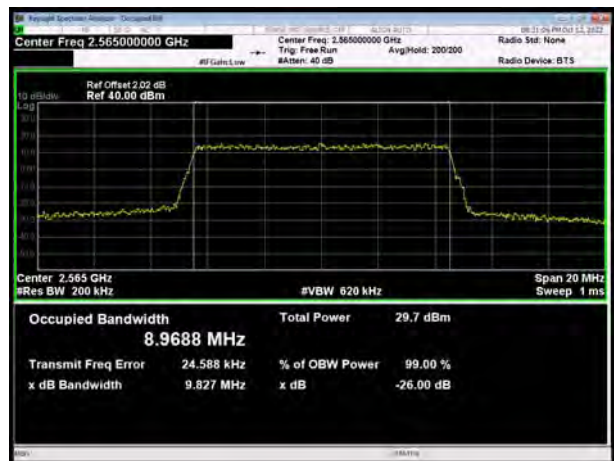
LTE Band 7 QPSK 10MHz CH-Middle



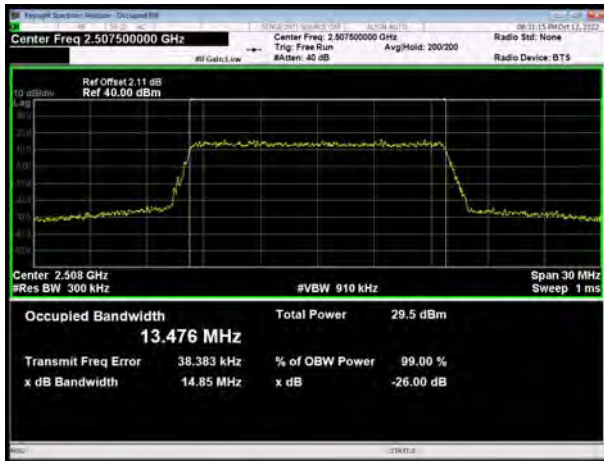
LTE Band 7 QPSK 5MHz CH-High



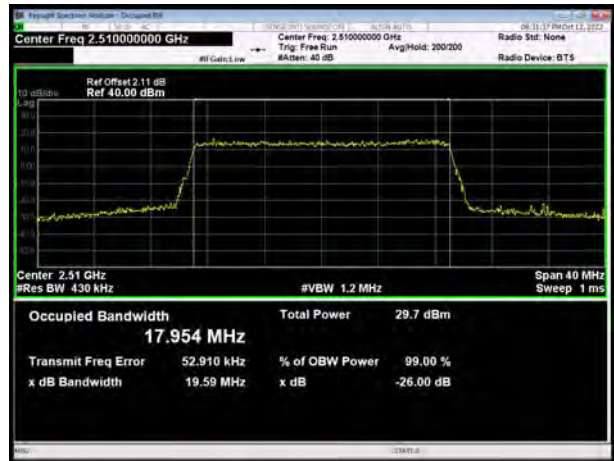
LTE Band 7 QPSK 10MHz CH-High



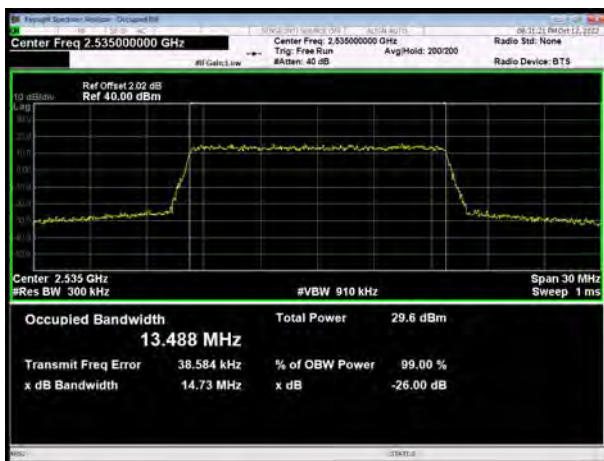
LTE Band 7 QPSK 15MHz CH-Low



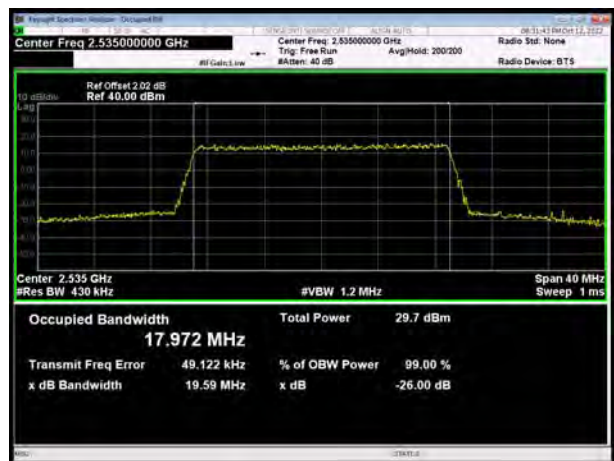
LTE Band 7 QPSK 20MHz CH-Low



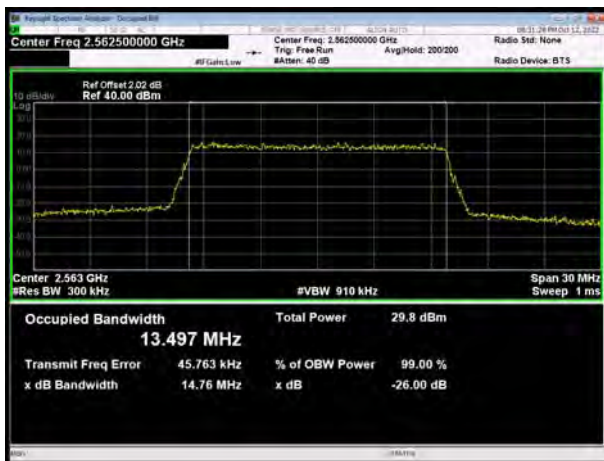
LTE Band 7 QPSK 15MHz CH-Middle



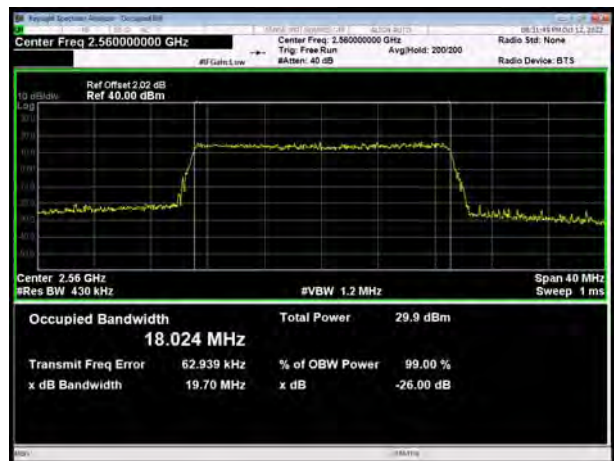
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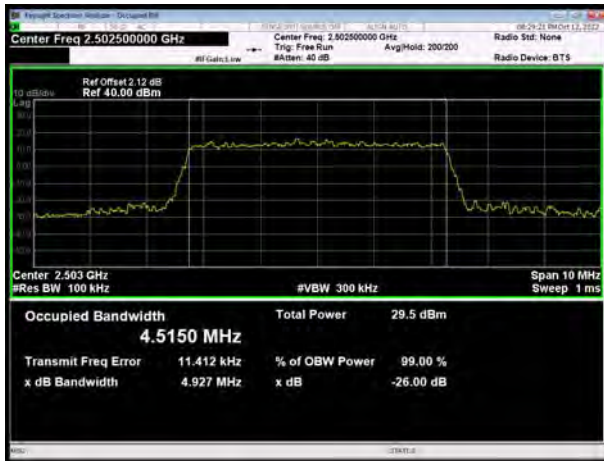
LTE Band 7 QPSK 15MHz CH-High



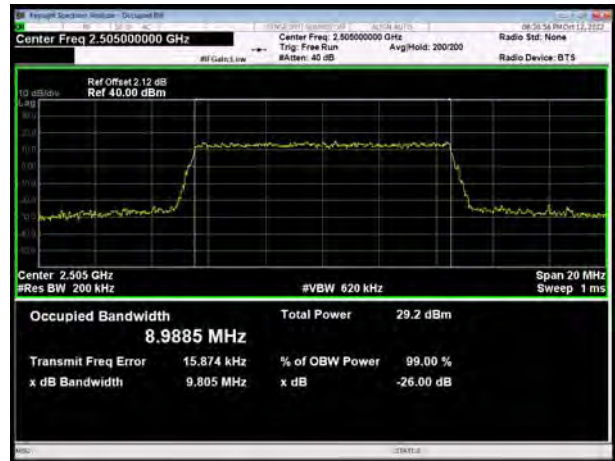
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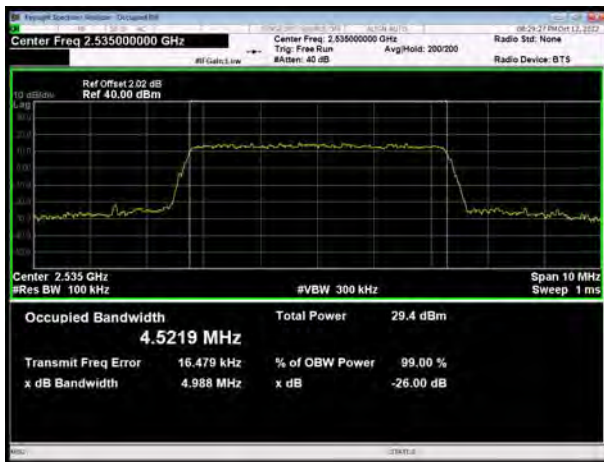
LTE Band 7 16QAM 5MHz CH-Low



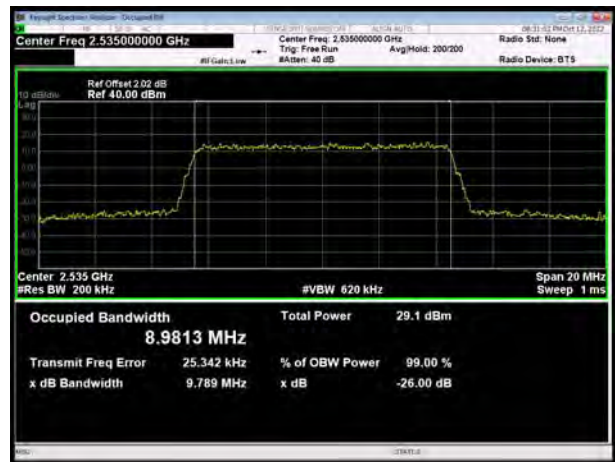
LTE Band 7 16QAM 10MHz CH-Low



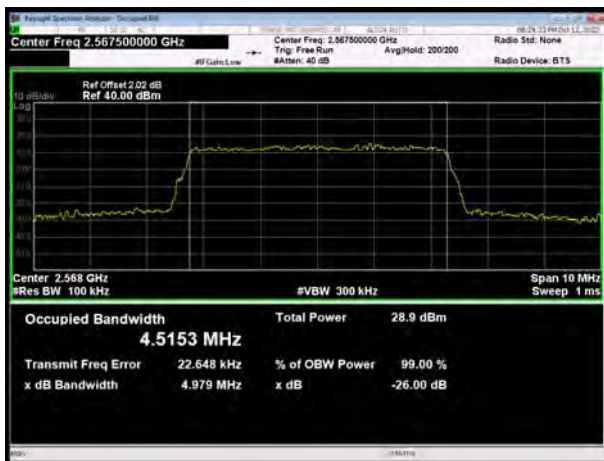
LTE Band 7 16QAM 5MHz CH-Middle



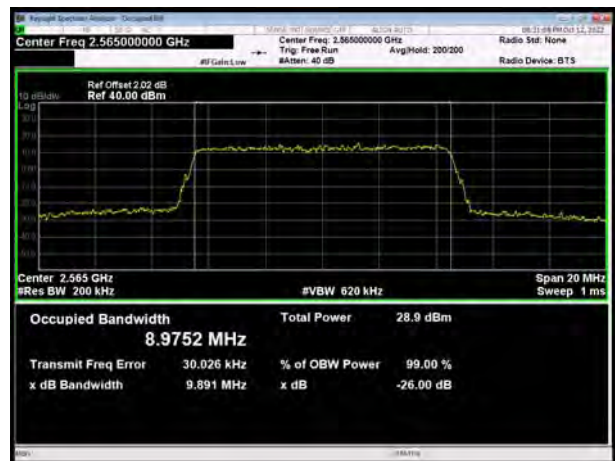
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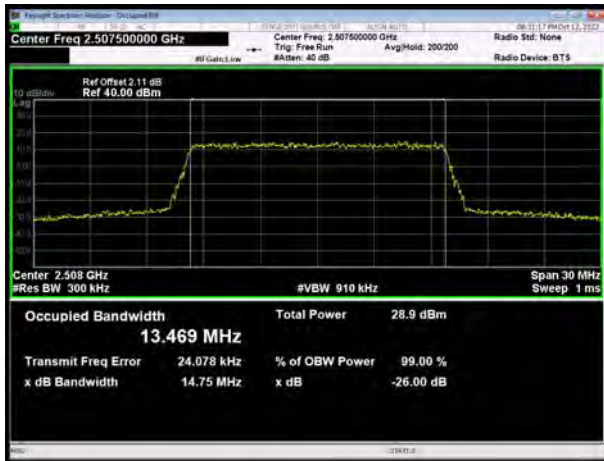
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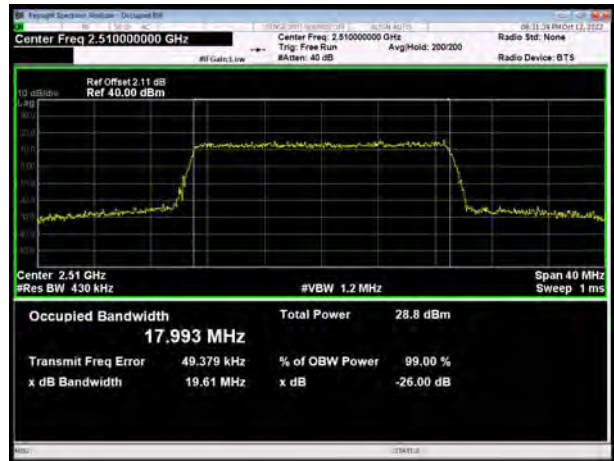
LTE Band 7 16QAM 10MHz CH-High



LTE Band 7 16QAM 15MHz CH-Low



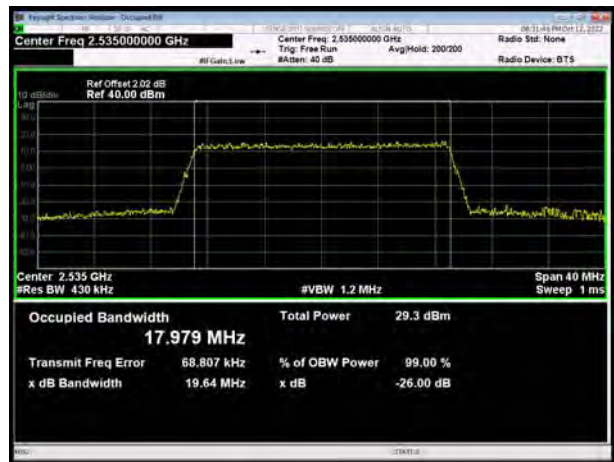
LTE Band 7 16QAM 20MHz CH-Low



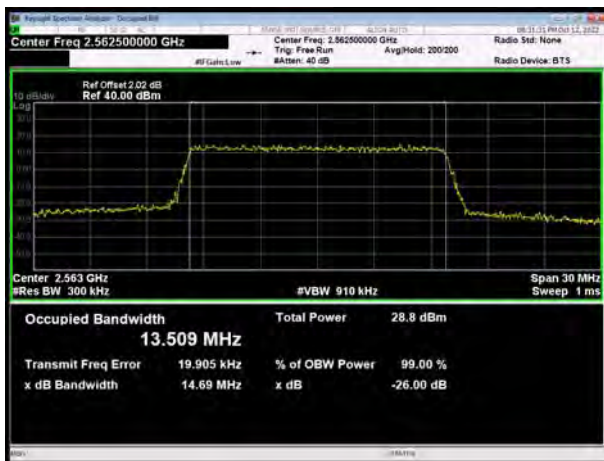
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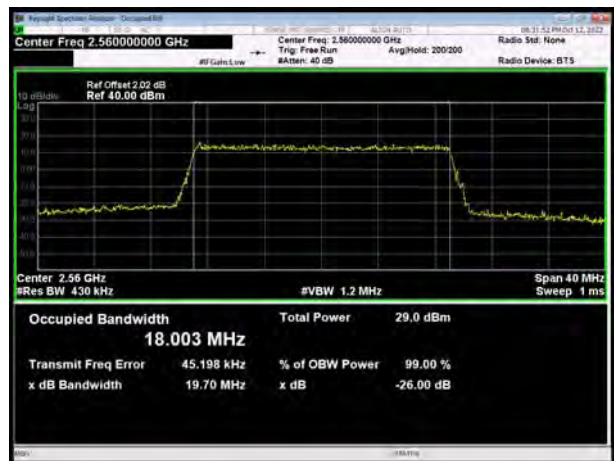
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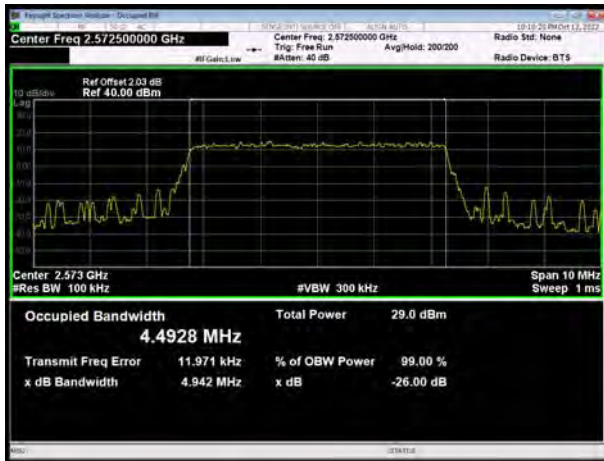
LTE Band 7 16QAM 15MHz CH-High



LTE Band 7 16QAM 20MHz CH-High



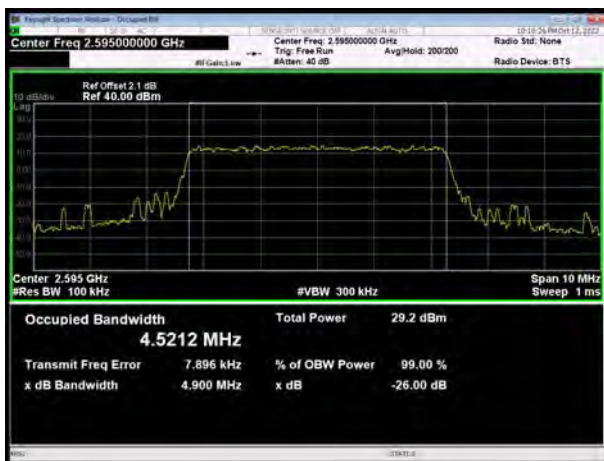
LTE Band 38 QPSK 5MHz CH-Low



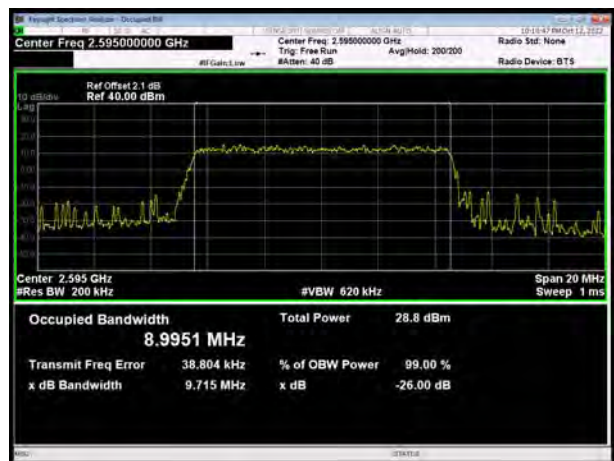
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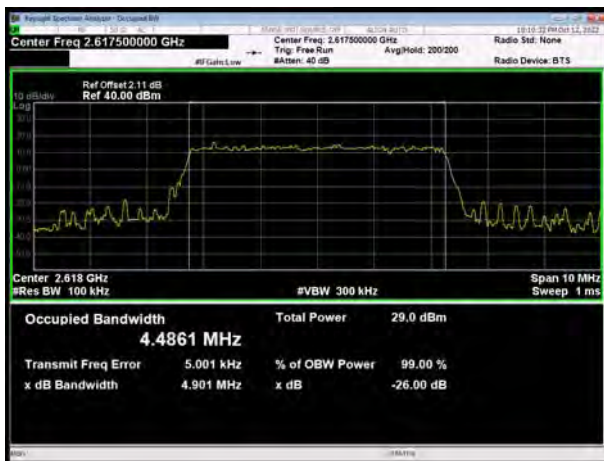
LTE Band 38 QPSK 5MHz CH-Middle



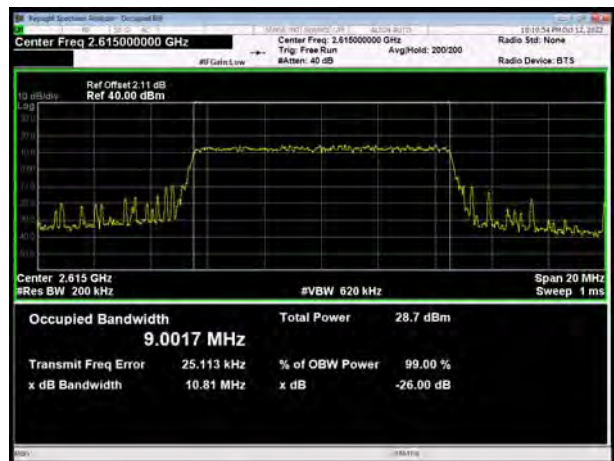
LTE Band 38 QPSK 10MHz CH-Middle



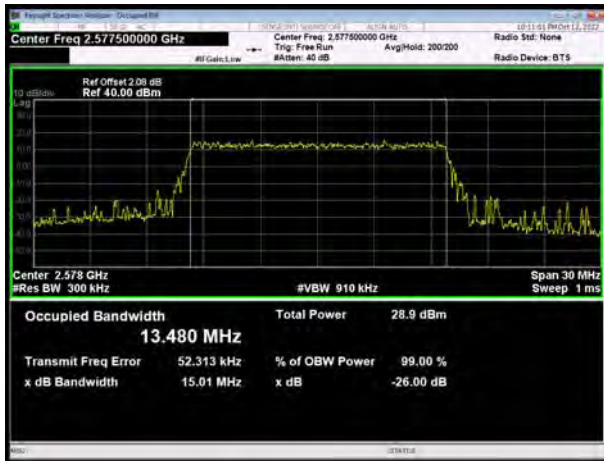
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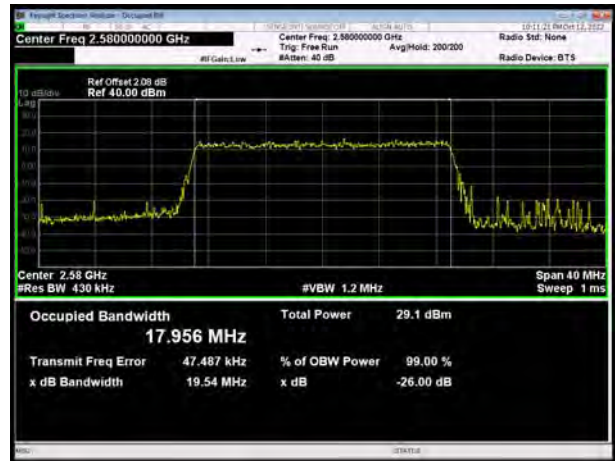
LTE Band 38 QPSK 10MHz CH-High



LTE Band 38 QPSK 15MHz CH-Low



LTE Band 38 QPSK 20MHz CH-Low



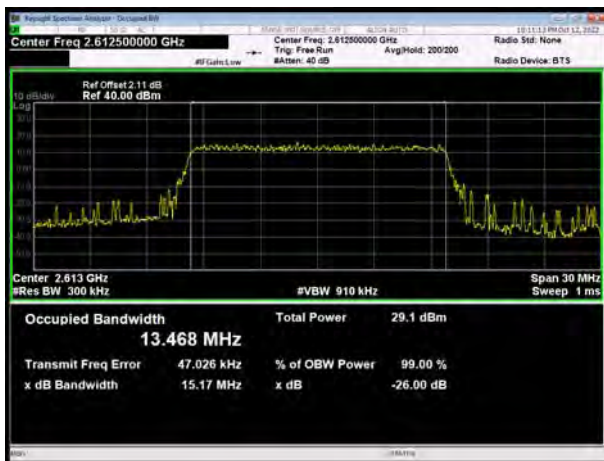
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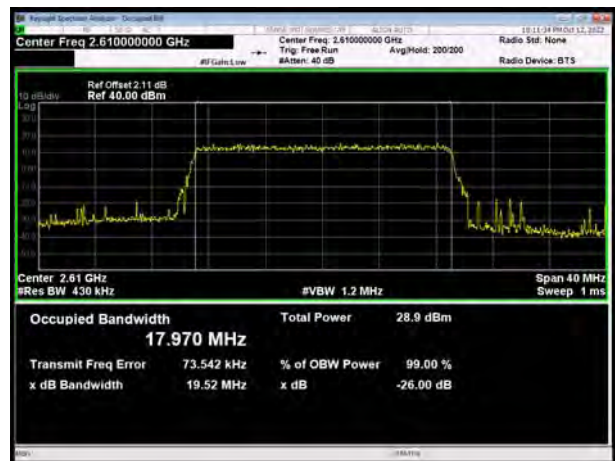
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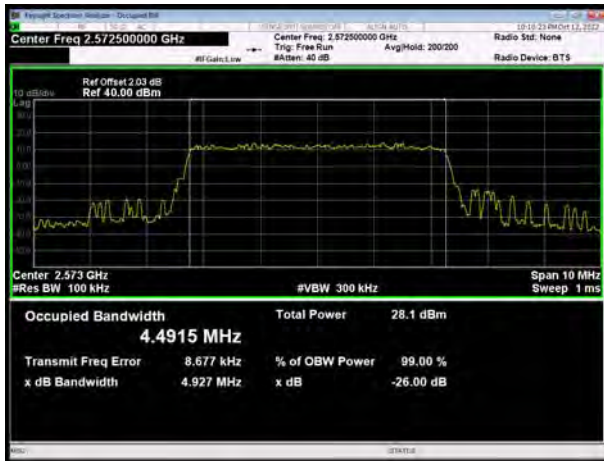
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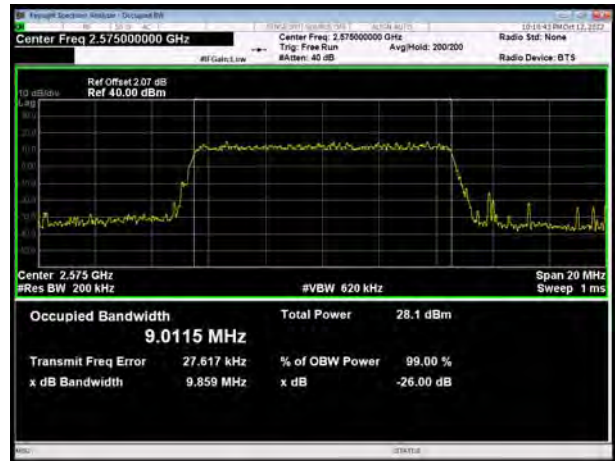
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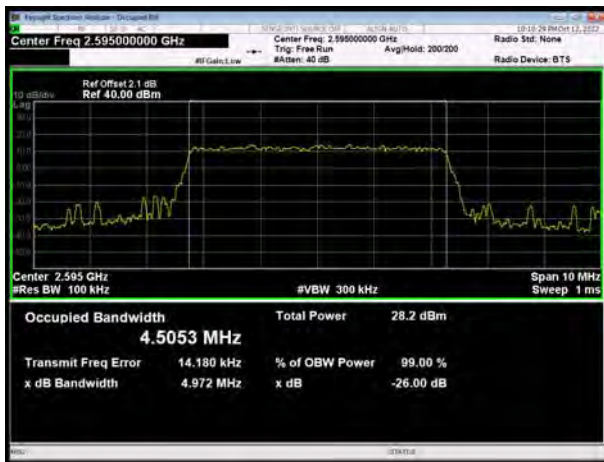
LTE Band 38 16QAM 5MHz CH-Low



LTE Band 38 16QAM 10MHz CH-Low



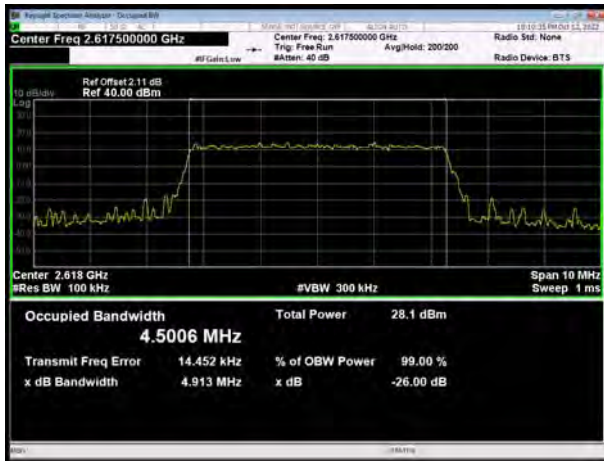
LTE Band 38 16QAM 5MHz CH-Middle



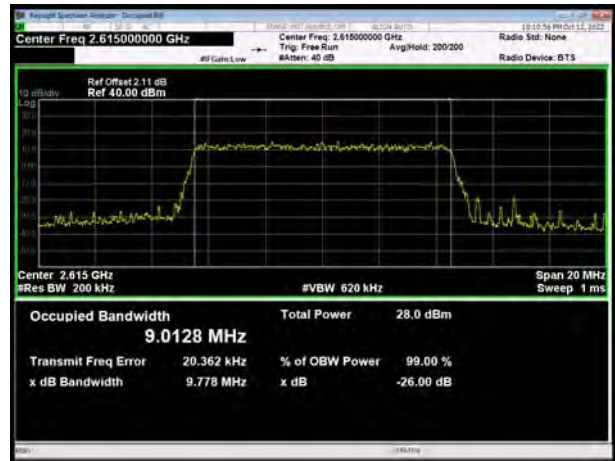
LTE Band 38 16QAM 10MHz CH-Middle



LTE Band 38 16QAM 5MHz CH-High



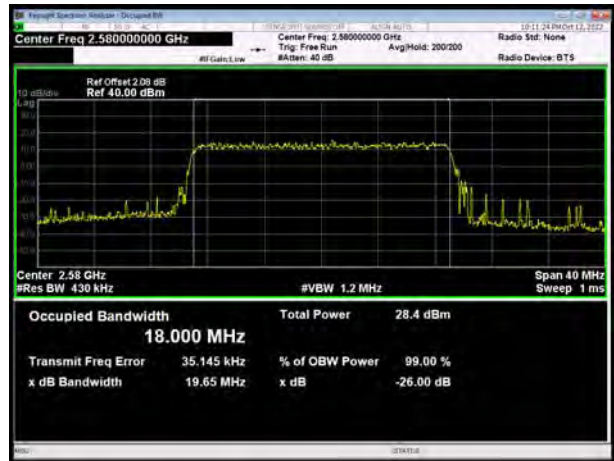
LTE Band 38 16QAM 10MHz CH-High



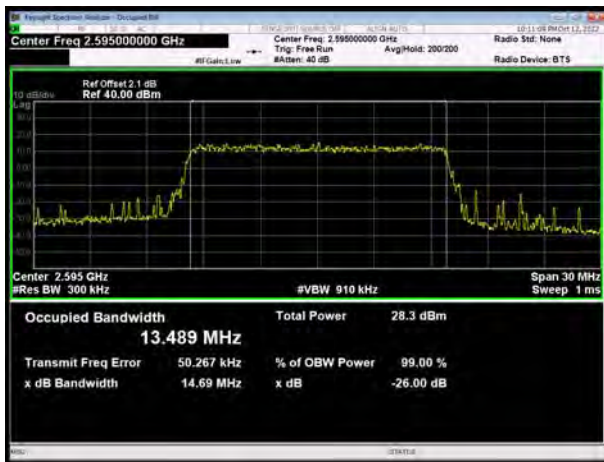
LTE Band 38 16QAM 15MHz CH-Low



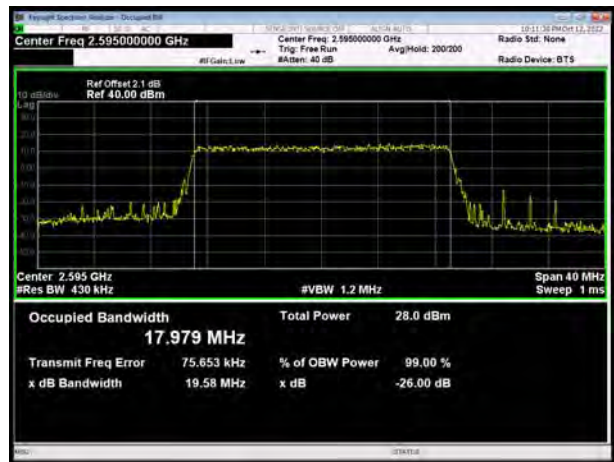
LTE Band 38 16QAM 20MHz CH-Low



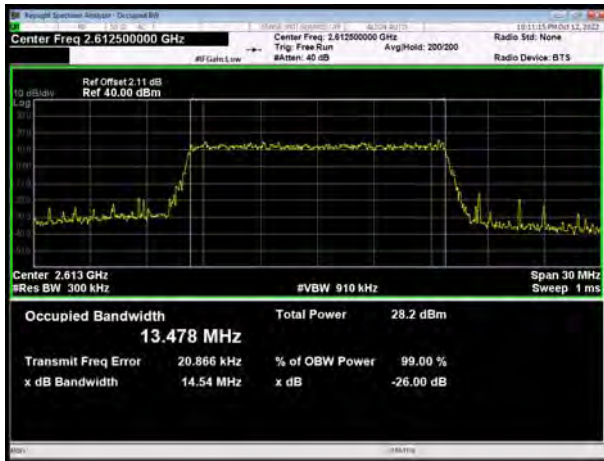
LTE Band 38 16QAM 15MHz CH-Middle



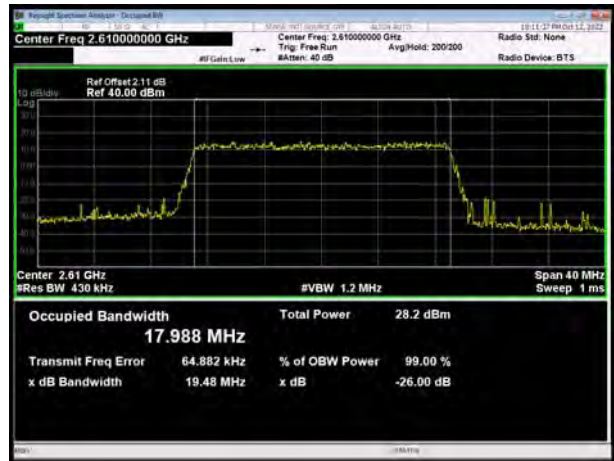
LTE Band 38 16QAM 20MHz CH-Middle



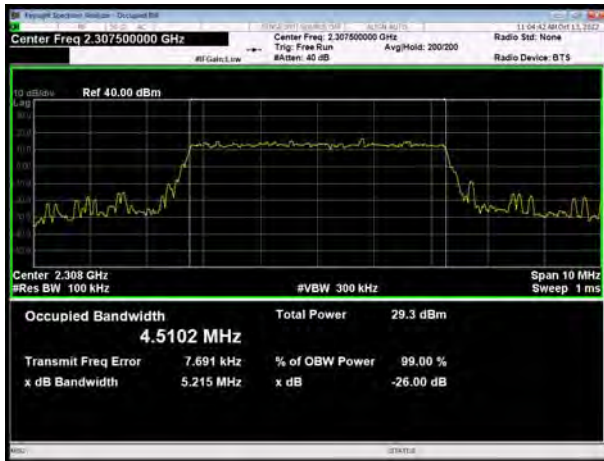
LTE Band 38 16QAM 15MHz CH-High



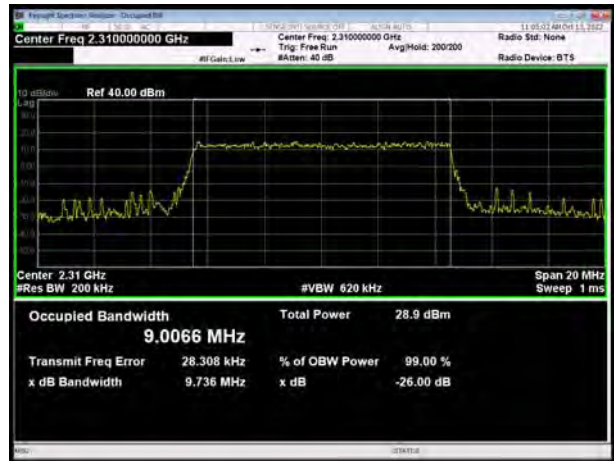
LTE Band 38 16QAM 20MHz CH-High



LTE Band 40 Subset 1 QPSK 5MHz CH-Low



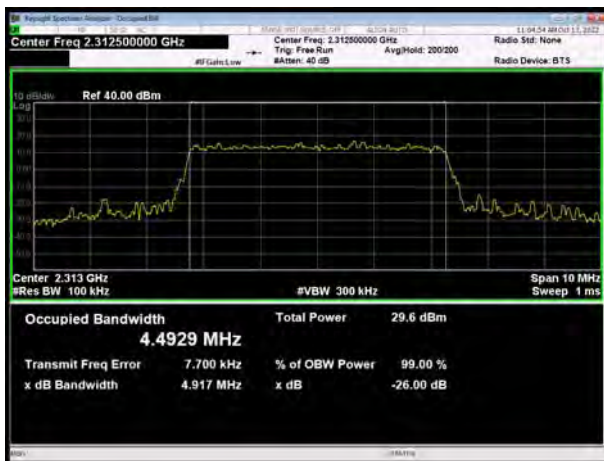
LTE Band 40 Subset 1 QPSK 10MHz



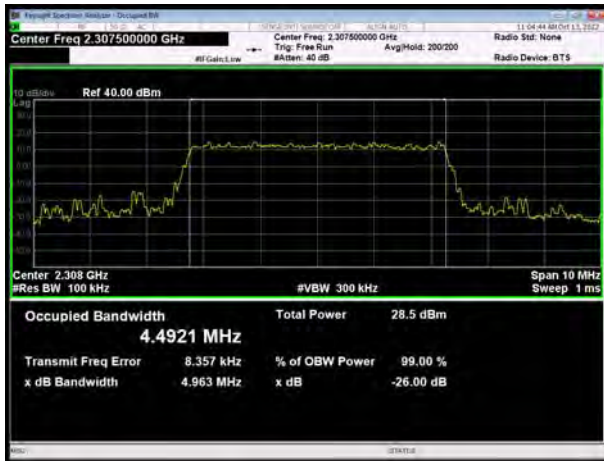
LTE Band 40 Subset 1 QPSK 5MHz CH-Middle



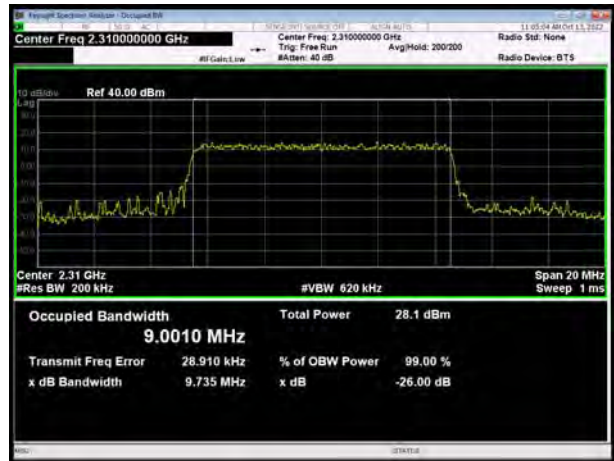
LTE Band 40 Subset 1 QPSK 5MHz CH-High



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



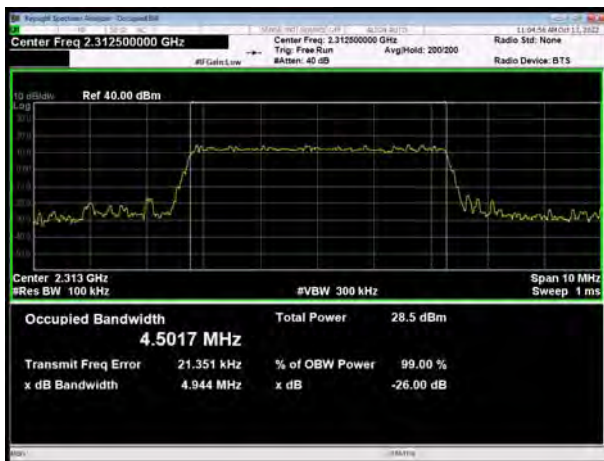
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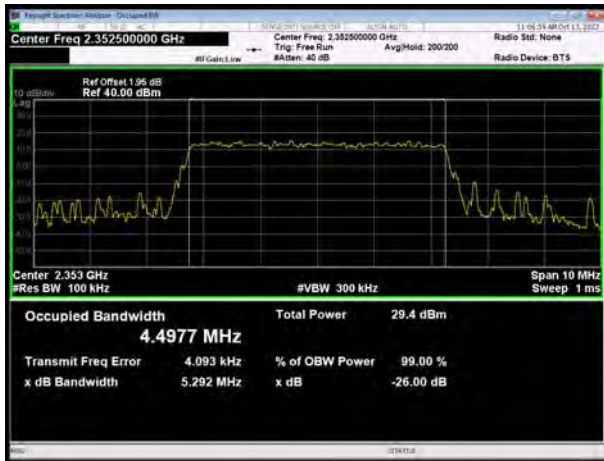
LTE Band 40 Subset 1 16QAM 5MHz CH-Middle



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



LTE Band 40 Subset 2 QPSK 5MHz CH-Low



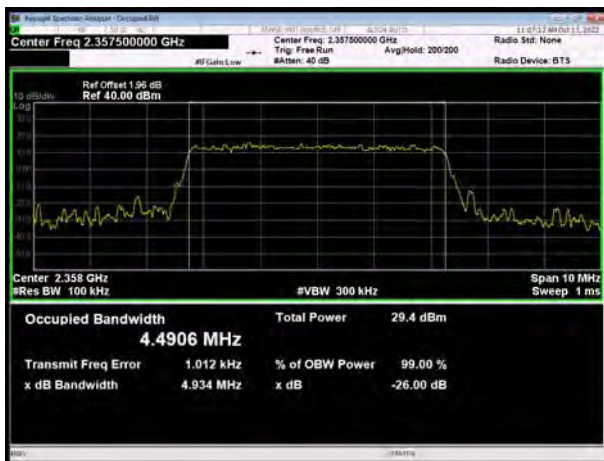
LTE Band 40 Subset 2 QPSK 10MHz



LTE Band 40 Subset 2 QPSK 5MHz CH-Middle



LTE Band 40 Subset 2 QPSK 5MHz CH-High



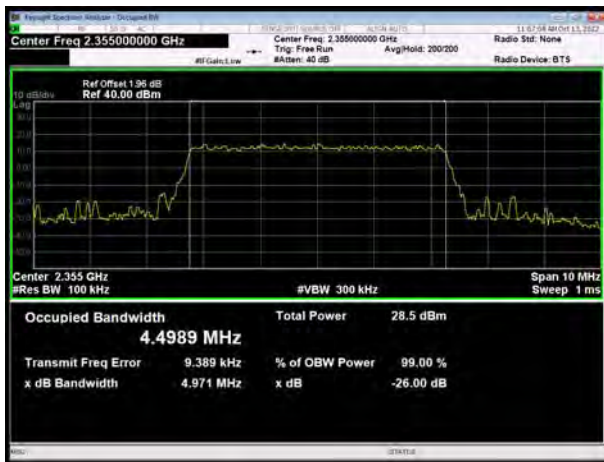
LTE Band 40 Subset 2 16QAM 5MHz CH-Low



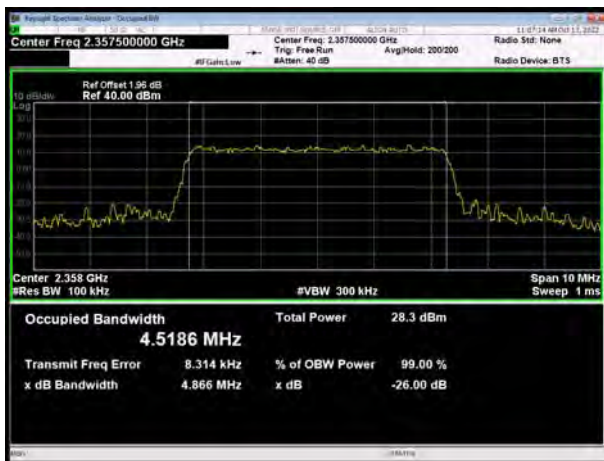
LTE Band 40 Subset 2 16QAM 10MHz



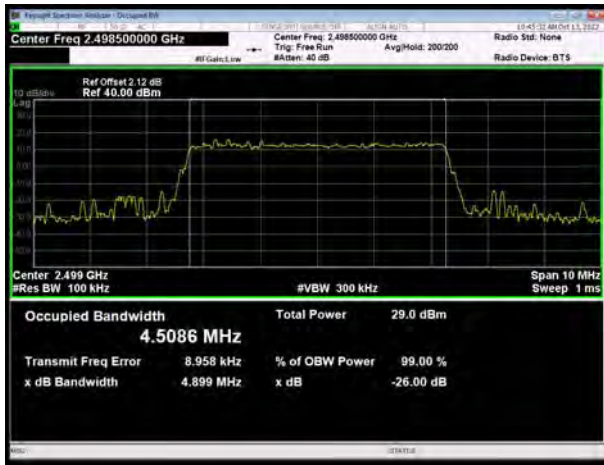
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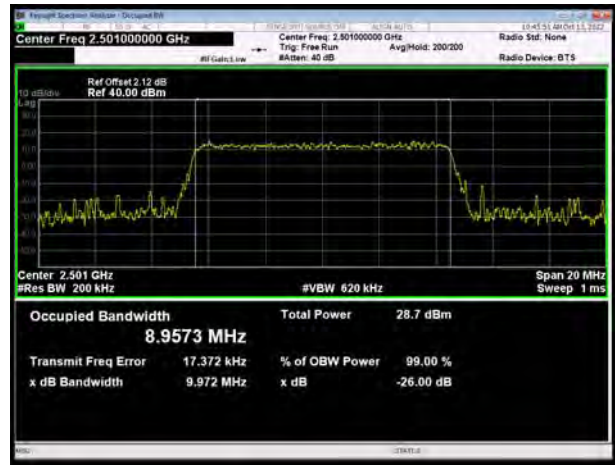
LTE Band 40 Subset 2 16QAM 5MHz CH-High



LTE Band 41 QPSK 5MHz CH-Low



LTE Band 41 QPSK 10MHz CH-Low



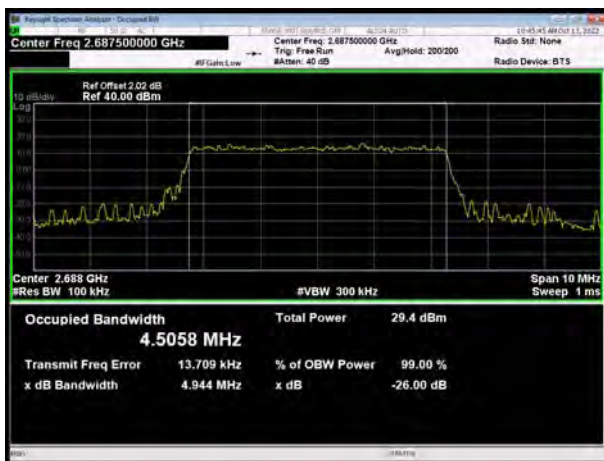
LTE Band 41 QPSK 5MHz CH-Middle



LTE Band 41 QPSK 10MHz CH-Middle



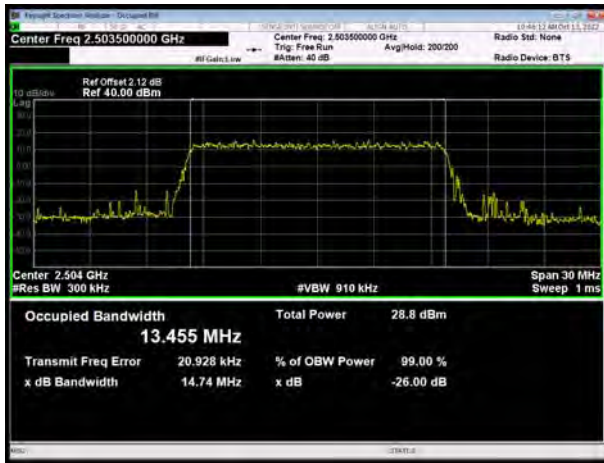
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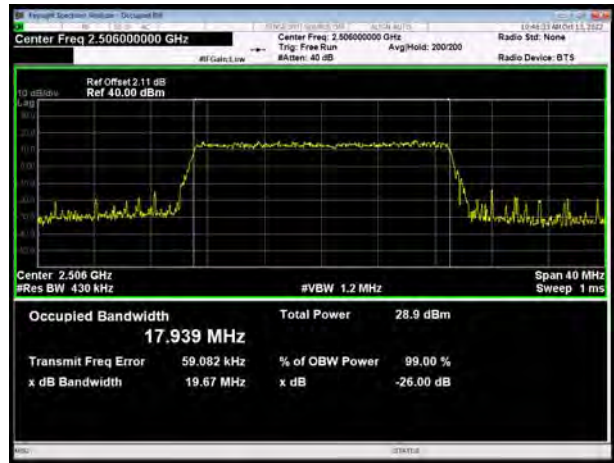
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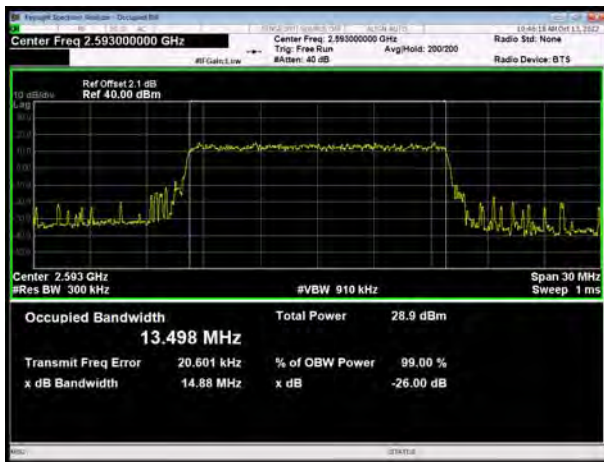
LTE Band 41 QPSK 15MHz CH-Low



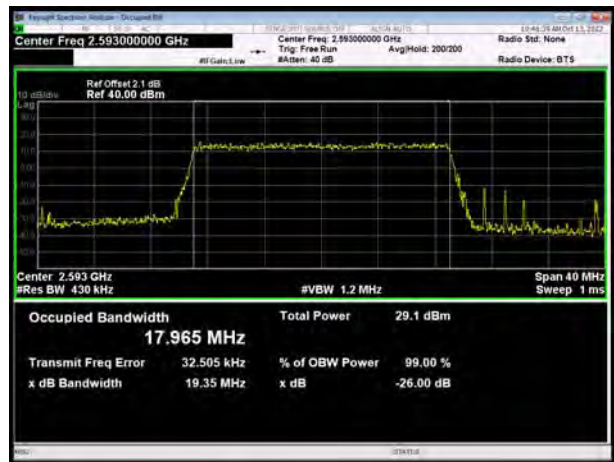
LTE Band 41 QPSK 20MHz CH-Low



LTE Band 41 QPSK 15MHz CH-Middle



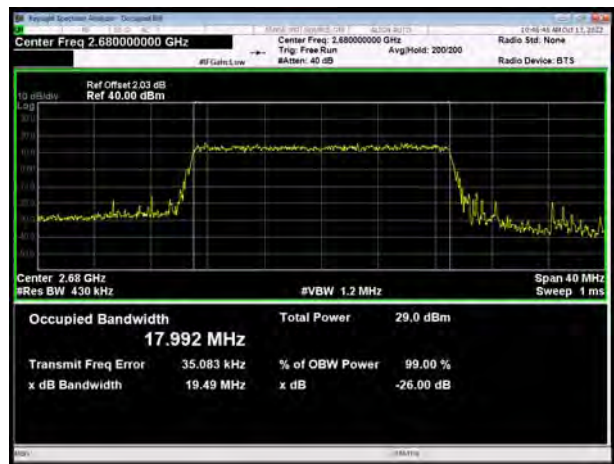
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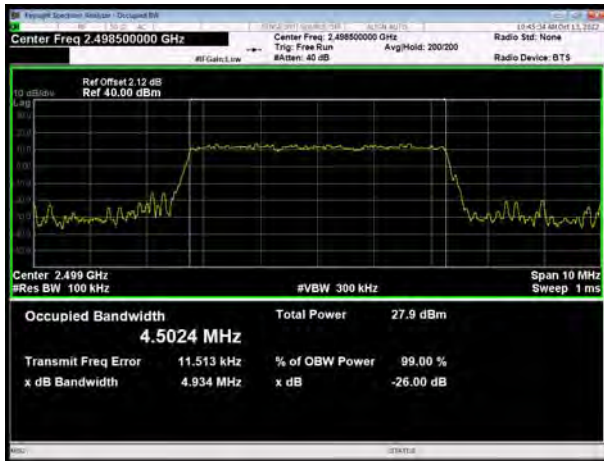
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LTE Band 41 QPSK 20MHz CH-High



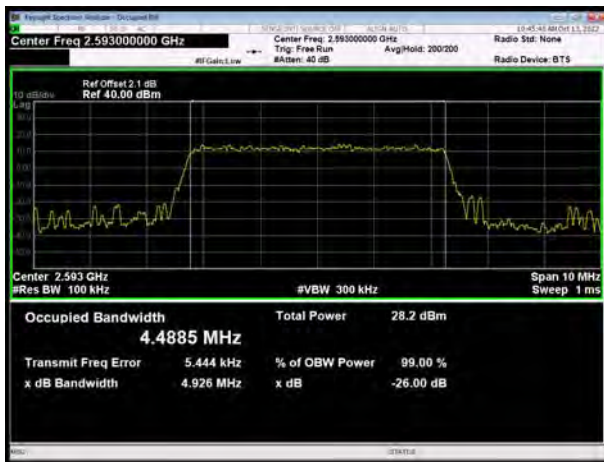
LTE Band 41 16QAM 5MHz CH-Low



LTE Band 41 16QAM 10MHz CH-Low



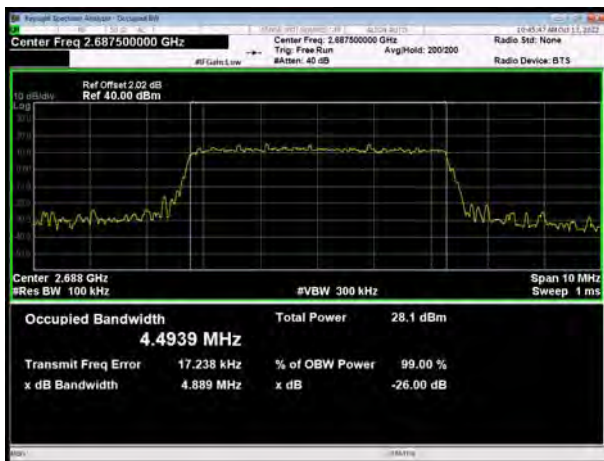
LTE Band 41 16QAM 5MHz CH-Middle



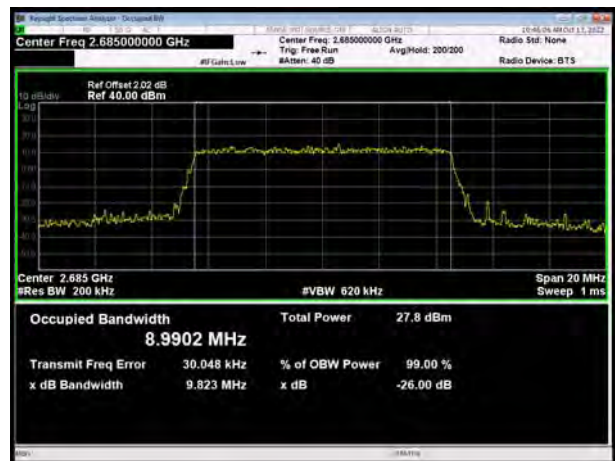
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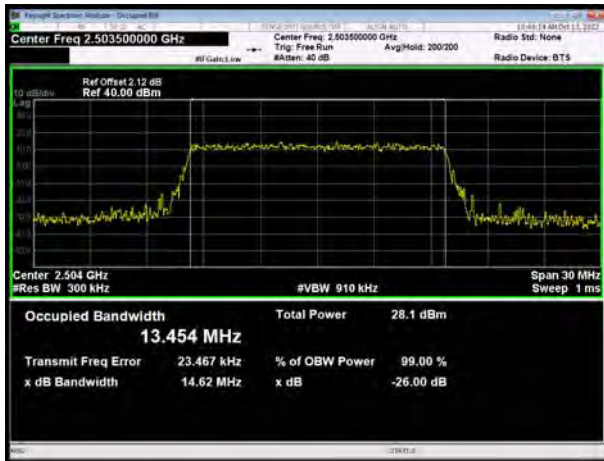
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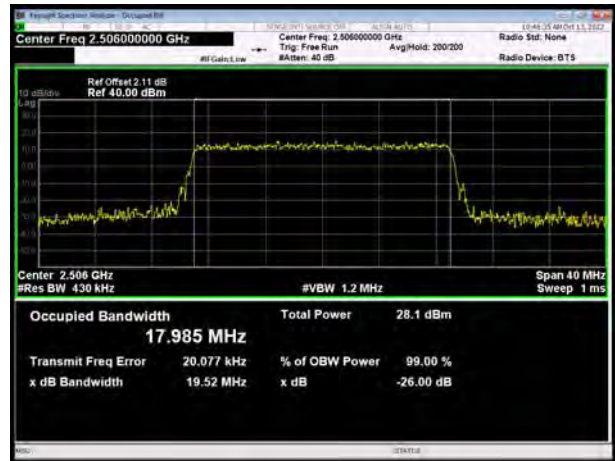
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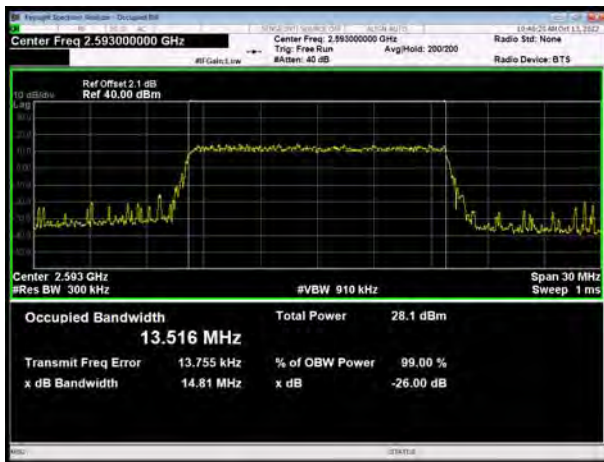
LTE Band 41 16QAM 15MHz CH-Low



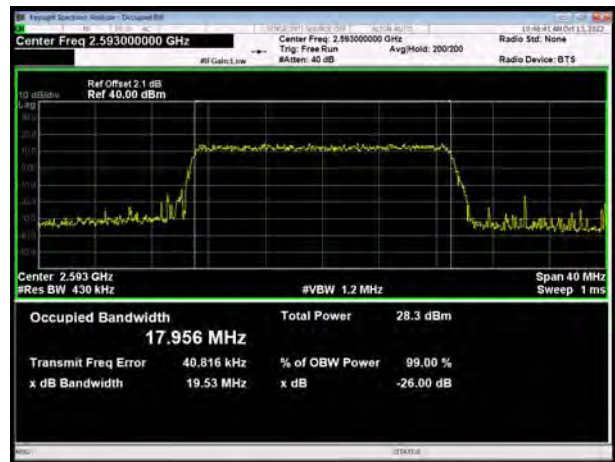
LTE Band 41 16QAM 20MHz CH-Low



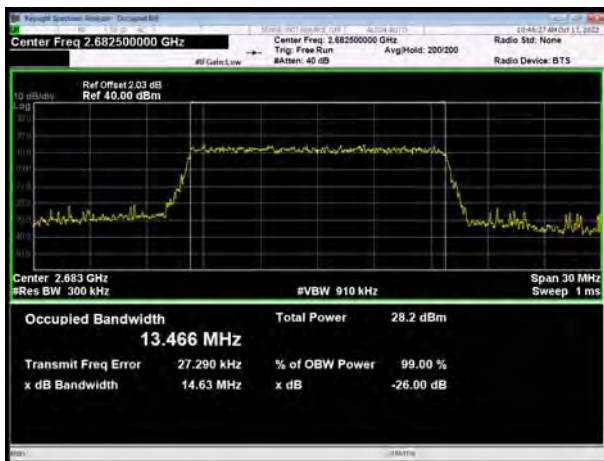
LTE Band 41 16QAM 15MHz CH-Middle



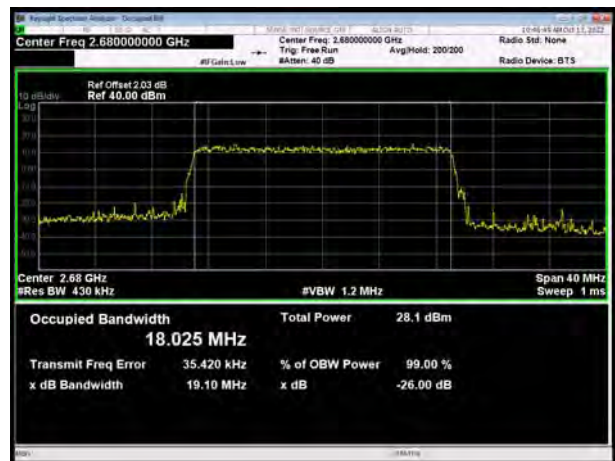
LTE Band 41 16QAM 20MHz CH-Middle



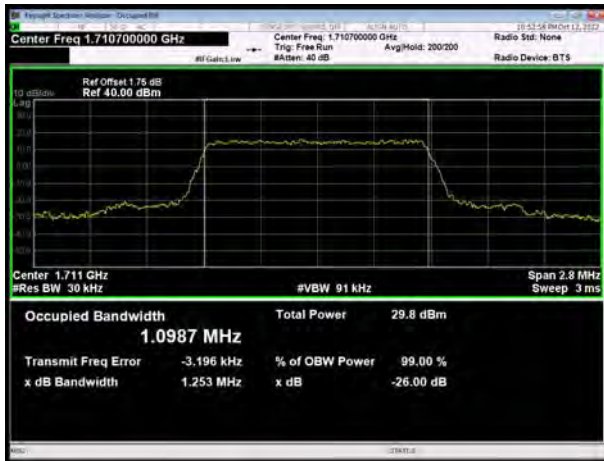
LTE Band 41 16QAM 15MHz CH-High



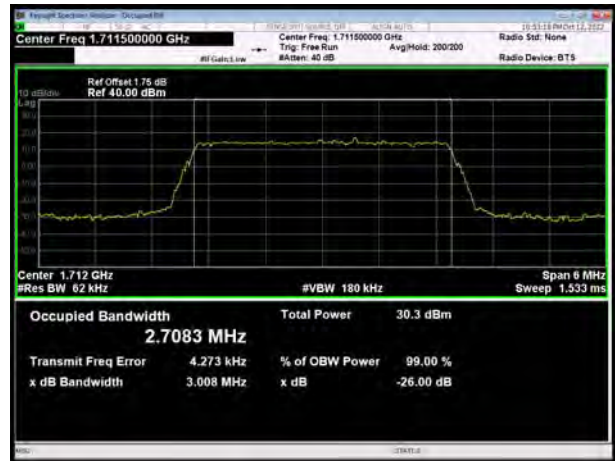
LTE Band 41 16QAM 20MHz CH-High



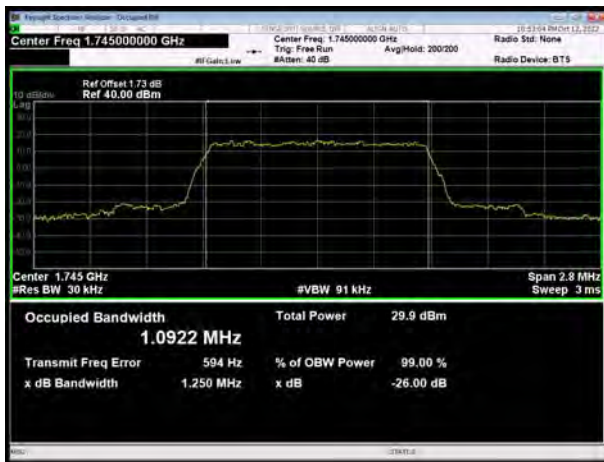
LTE Band 66 QPSK 1.4MHz CH-Low



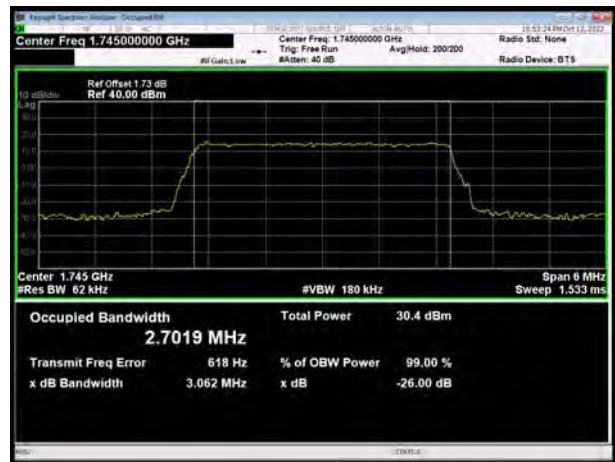
LTE Band 66 QPSK 3MHz CH-Low



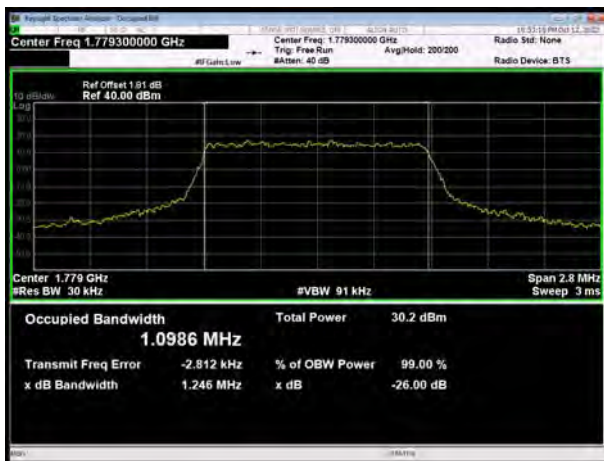
LTE Band 66 QPSK 1.4MHz CH-Middle



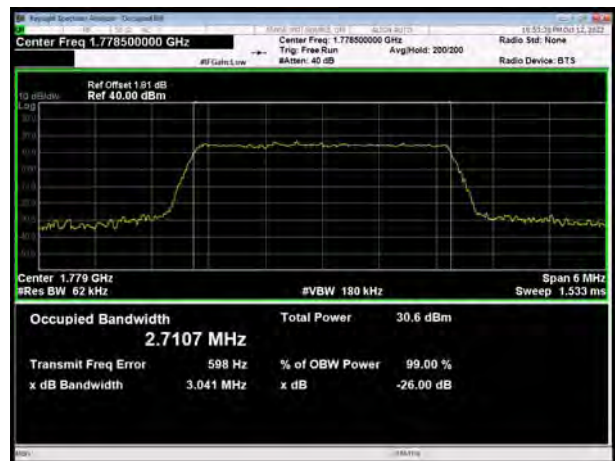
LTE Band 66 QPSK 3MHz CH-Middle



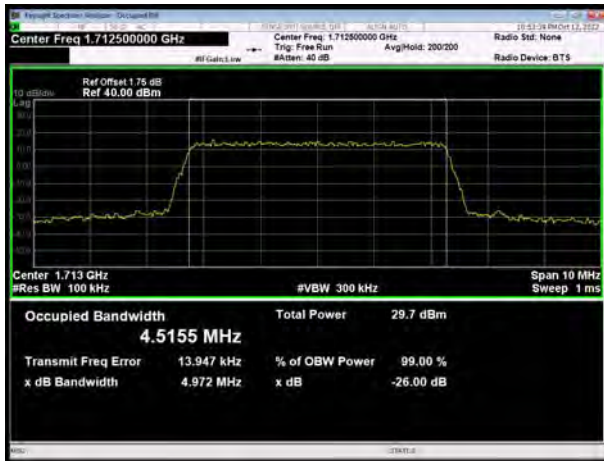
LTE Band 66 QPSK 1.4MHz CH-High



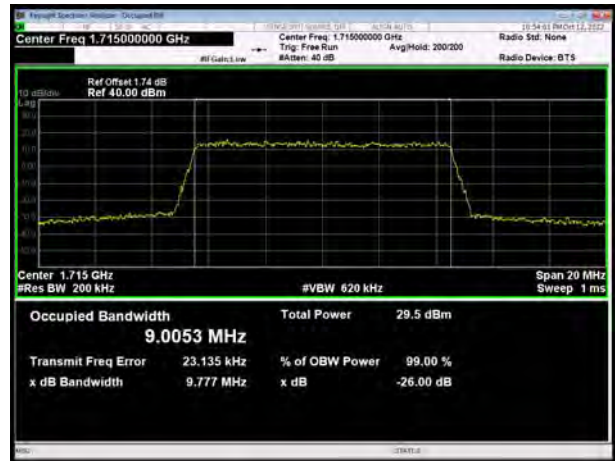
LTE Band 66 QPSK 3MHz CH-High



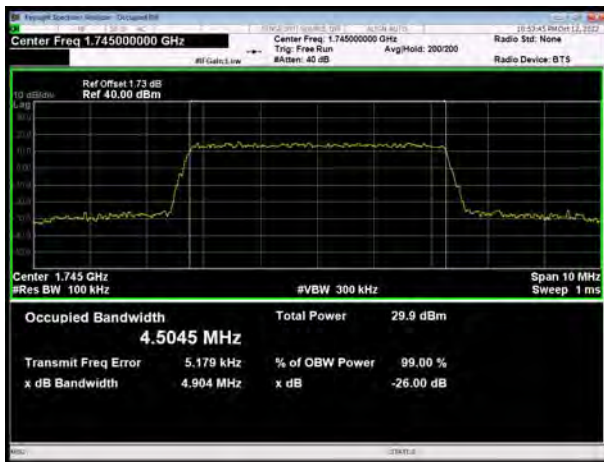
LTE Band 66 QPSK 5MHz CH-Low



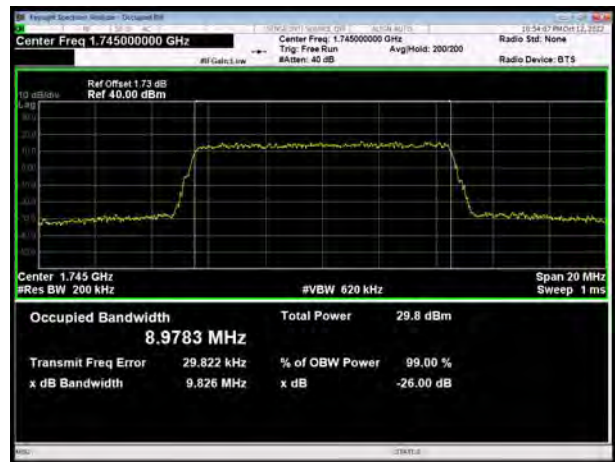
LTE Band 66 QPSK 10MHz CH-Low



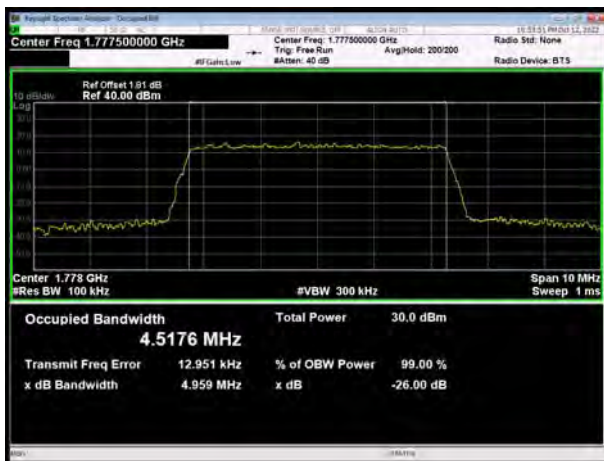
LTE Band 66 QPSK 5MHz CH-Middle



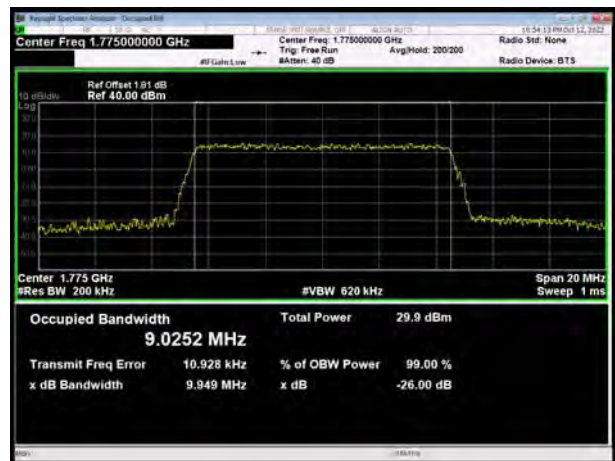
LTE Band 66 QPSK 10MHz CH-Middle



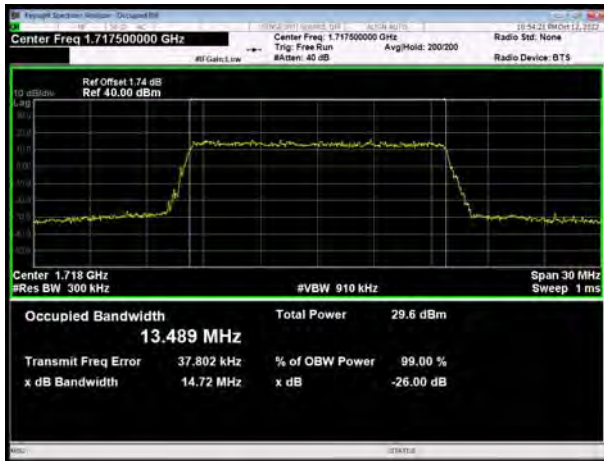
LTE Band 66 QPSK 5MHz CH-High



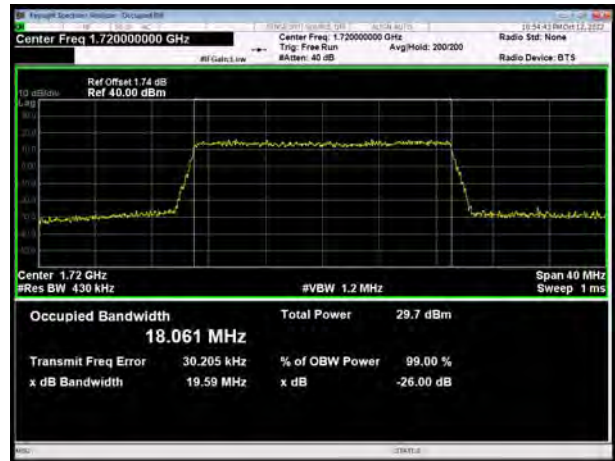
LTE Band 66 QPSK 10MHz CH-High



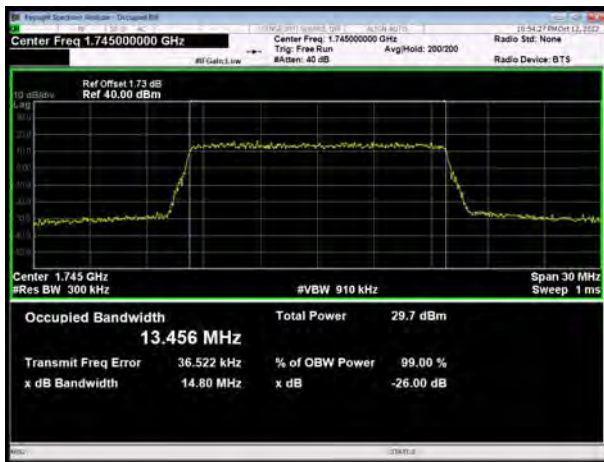
LTE Band 66 QPSK 15MHz CH-Low



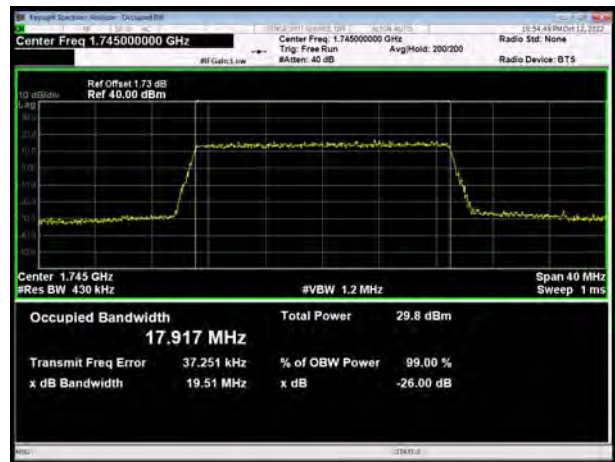
LTE Band 66 QPSK 20MHz CH-Low



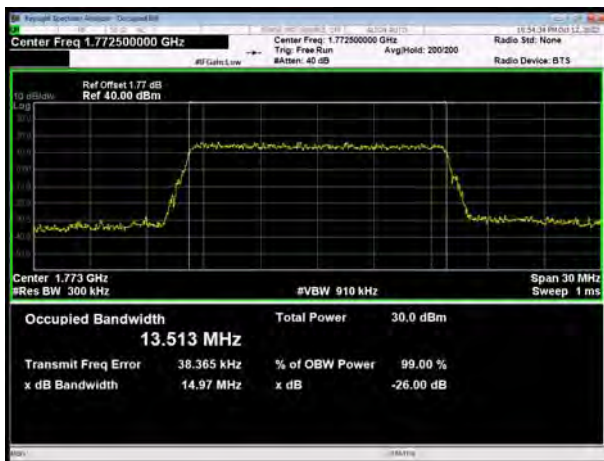
LTE Band 66 QPSK 15MHz CH-Middle



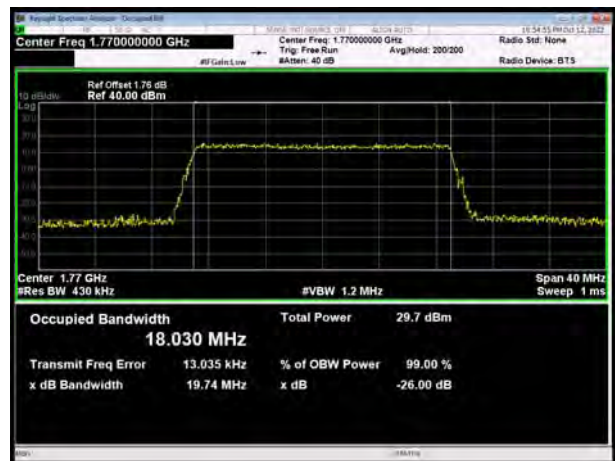
LTE Band 66 QPSK 20MHz CH-Middle



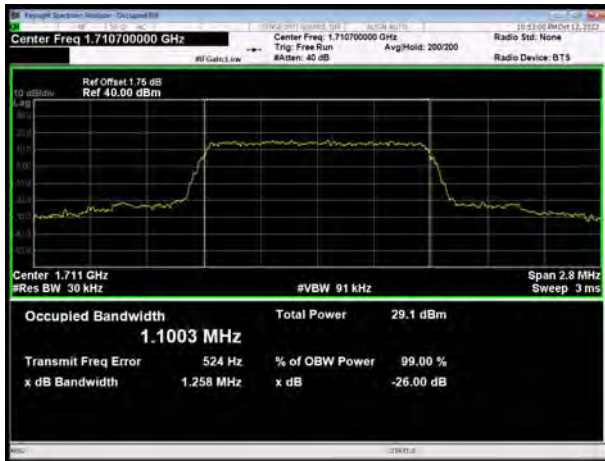
LTE Band 66 QPSK 15MHz CH-High



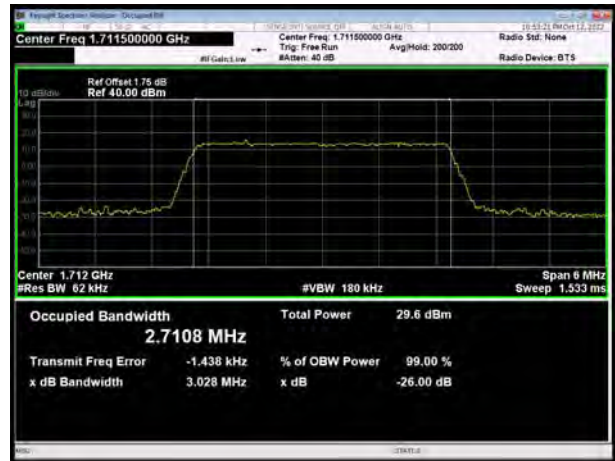
LTE Band 66 QPSK 20MHz CH-High



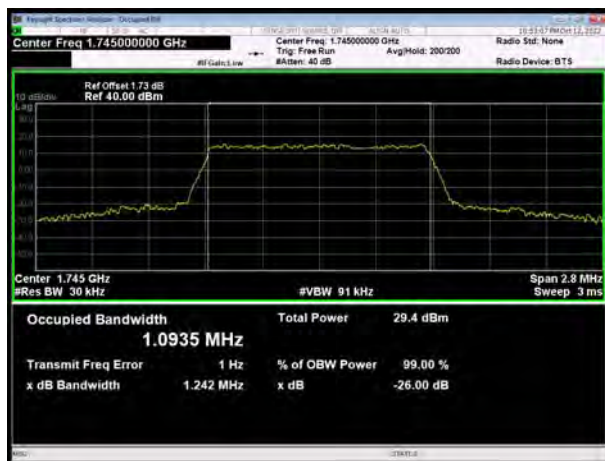
LTE Band 66 16QAM 1.4MHz CH-Low



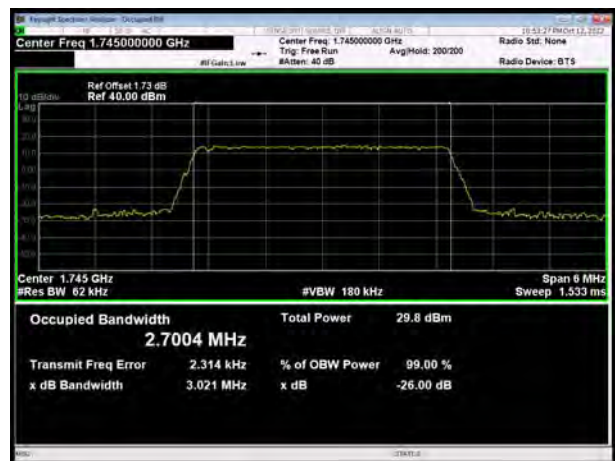
LTE Band 66 16QAM 3MHz CH-Low



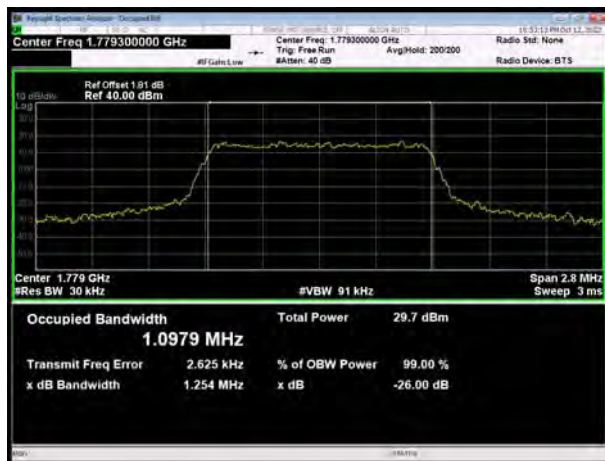
LTE Band 66 16QAM 1.4MHz CH-Middle



LTE Band 66 16QAM 3MHz CH-Middle



LTE Band 66 16QAM 1.4MHz CH-High



LTE Band 66 16QAM 3MHz CH-High

