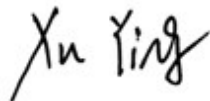


RF TEST REPORT

Applicant	COOSEA GROUP (HK) COMPANY LIMITED
FCC ID	2A28USL112
Product	Smart Phone
Model	SL112A; SL112C
Report No.	R2212A1312-R3
Issue Date	March 16, 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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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(c)(10) /27.50(h)(2) /27.50(a)(3)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	27.53(h) /27.53(g) /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(g) /27.53(m) /27.53(a) (3)	PASS
7	Radiated Spurious Emission	2.1053 /27.53(h) /27.53(g) /27.53(m) /27.53(a) (3)	PASS

Date of Testing: January 18, 2023 ~ February 6, 2023

Date of Sample Received: January 11, 2023

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
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 Website: <http://www.ta-shanghai.com>
 E-mail: xukai@ta-shanghai.com

2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	COOSEA GROUP (HK) COMPANY LIMITED
Applicant address	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer	COOSEA GROUP (HK) COMPANY LIMITED
Manufacturer address	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA

2.2 General information

EUT Description			
Model	SL112A; SL112C		
IMEI	351384680004663		
Hardware Version	1.0		
Software Version	SL112A10010		
Power Supply	Battery / AC adapter		
Antenna Type	PIFA Antenna		
Antenna Gain	Mode	Frequency (MHz)	Gain (dBi)
	WCDMA Band IV/ LTE Band 4	1710	-2.22
		1720	-2.31
		1730	-2.05
		1740	-1.91
		1750	-1.80
		1760	-1.44
	LTE Band 7	2500	-3.66
		2510	-3.95
		2520	-4.05
		2530	-4.12
		2540	-4.16
		2550	-4.03
		2560	-4.11
		2570	-4.17
	LTE Band 12	690	-1.84
		700	-1.50
		710	-0.88
		720	-1.11
	LTE Band 30	2310	-0.39

Test Mode(s)	WCDMA Band IV; LTE Band 4; LTE Band 7; LTE Band 12; LTE Band 30;		
Test Modulation	(WCDMA) BPSK, QPSK, 16QAM; (LTE) QPSK, 16QAM, 64QAM;		
HSDPA UE Category	10		
HSUPA UE Category	6		
DC-HSDPA UE Category	24		
HSPA+ UE Category	7		
LTE Category	5		
Maximum E.I.R.P./ E.R.P.	WCDMA Band IV:	21.53 dBm	
	LTE Band 4:	22.21 dBm	
	LTE Band 7:	18.74 dBm	
	LTE Band 12:	21.22 dBm	
	LTE Band 30:	23.42 dBm	
		39.81 mW/MHz	
144.58 mW/5MHz			
Rated Power Supply Voltage	3.85V		
Operating Voltage	Minimum: 3.6V Maximum: 4.4V		
Operating Temperature	Lowest: -10°C Highest: +55°C		
Testing Temperature	Lowest: -30°C Highest: +50°C		
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)
	WCDMA Band IV	1710 ~ 1755	2110 ~ 2155
	LTE Band 4	1710 ~ 1755	2110 ~ 2155
	LTE Band 7	2500 ~ 2570	2620 ~ 2690
	LTE Band 12	699 ~ 716	729 ~ 746
	LTE Band 30	2305 ~ 2315	2350 ~ 2360
EUT Accessory			
Adapter	Manufacturer: ShenZhen BaiJunDa Electronic Co., Ltd Model: UT-592A-5200ZY		
Battery	Manufacturer: Huizhou Highpower Technology Co., Ltd Model: BL-A50CT		
USB Cable	Manufacturer: Shenzhen Yihuaxing Electronics Co.Ltd.. Model: K342-002		
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant. 2. The customer claims that SL112A and SL112C are only different in model, and the others are the same. This report only tests SL112A.			

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 (Y axis, vertical polarization for WCDMA; X axis, horizontal polarization for LTE) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated. Subsequently, only the worst case emissions are reported.

The following testing in 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/HSPA+
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 4/7/12/30:

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	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 12	O	O	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 30	-	-	O	O	-	-	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 12	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 30	-	-	O	O	-	-	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 4	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 7	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 12	O	O	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 30	-	-	O	O	-	-	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 12	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 30	-	-	O	O	-	-	O	O	-	-	O	O	O	O
Frequency Stability	LTE 4	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 7	-	-	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 12	O	O	O	O	-	-	O	O	O	-	-	-	O	-
	LTE 30	-	-	O	O	-	-	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	LTE 4	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 7	-	-	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 12	O	O	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 30	-	-	O	O	-	-	O	-	O	-	-	O	O	O
Radiated Spurious Emission	LTE 4	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 7	-	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 12	O	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 30	-	-	O	O	-	-	O	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.														

5 Test Case

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

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

Methods of Measurement

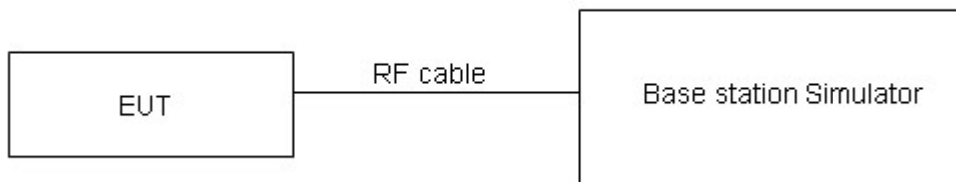
During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

ERP can then be calculated as follows:

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

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

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

Rule Part 27.50(c) (10) specifies that “Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP”

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(c)(10)Limit	$\leq 3 \text{ W}$ (34.77 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)

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

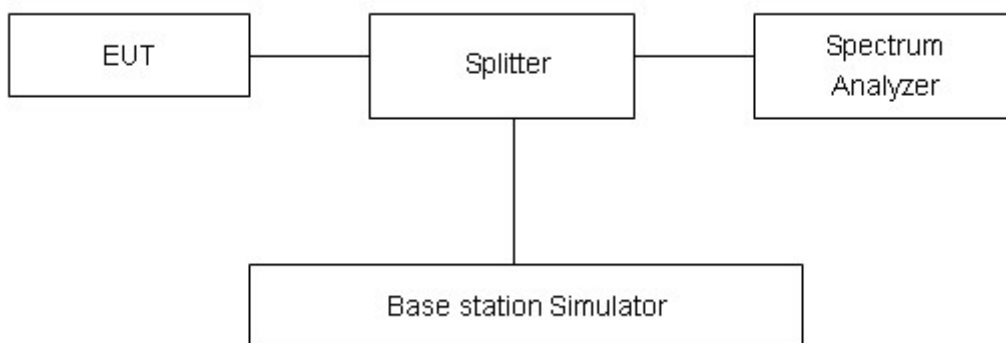
Method of Measurement

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 LTE Band 7 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.

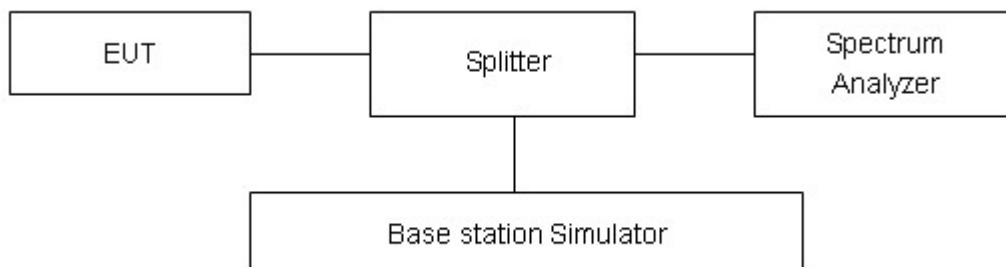
RBW is set to \geq 1%EBW, VBW is set to 3x RBW on spectrum analyzer.

Set spectrum analyzer with RMS detector.

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

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

Test Setup



Limits

Rule Part 27.53(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(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(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any

emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

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

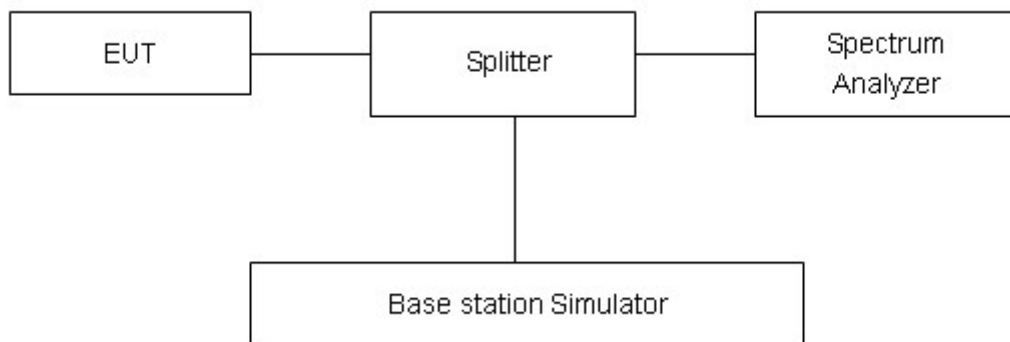
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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.

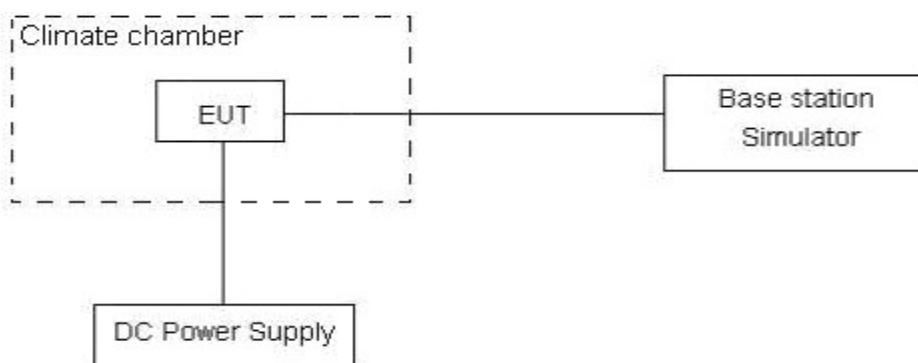
Frequency Stability (Voltage Variation)

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 3.6 V and 4.4 V, with a nominal voltage of 3.85V.

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)

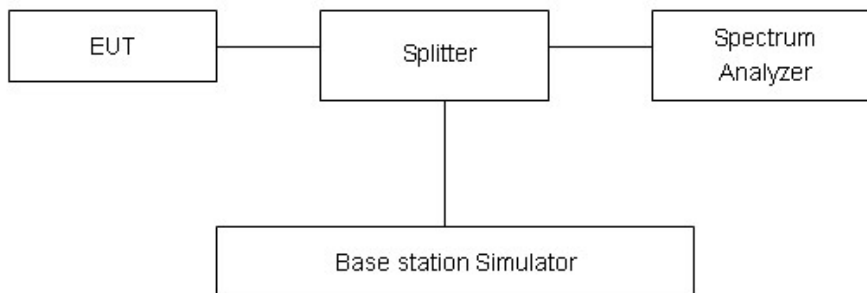
RBW is set to 1000 kHz (above 1000MHz)

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 (g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

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:

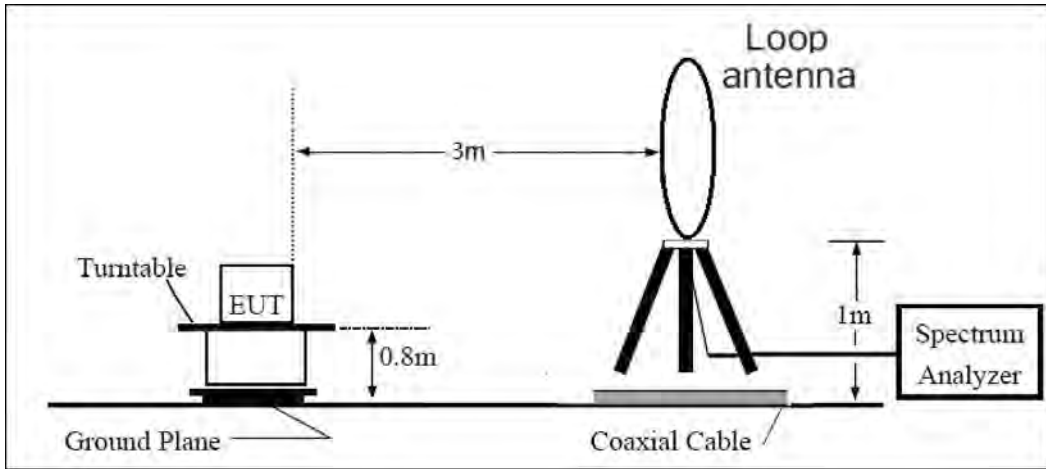
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$
 The measurement results are amend as described below:

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

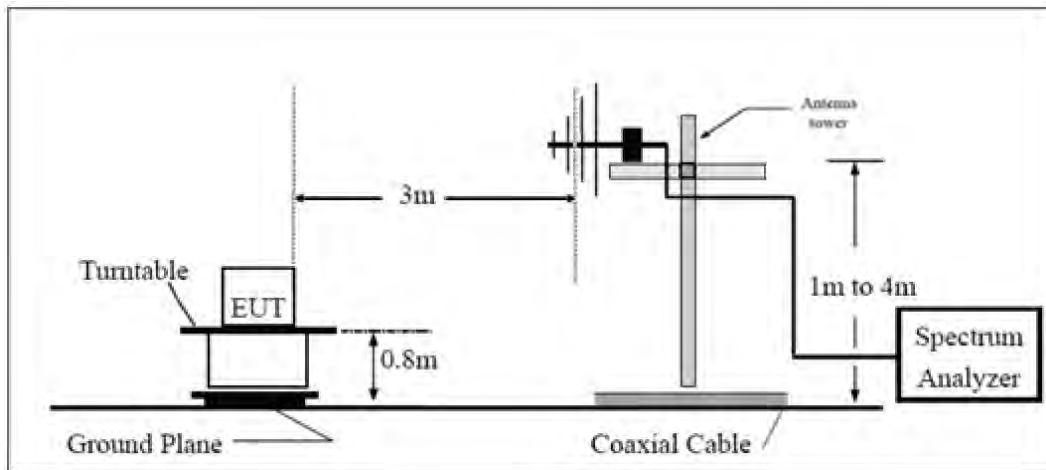
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

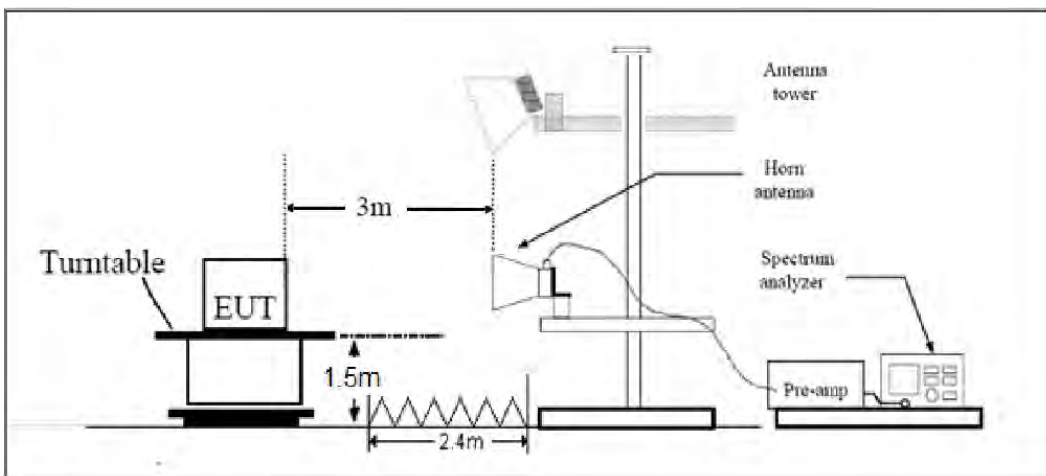
9KHz~ 30MHz



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 (g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

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 1312	Channel 1413	Channel 1513	Channel 1312	Channel 1413	Channel 1513
		1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)	1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)
RMC		23.35	23.24	23.33	21.13	21.02	21.53
HSDPA	Sub - Test 1	22.77	22.66	22.75	20.55	20.44	20.53
	Sub - Test 2	22.76	22.65	22.74	20.54	20.43	20.52
	Sub - Test 3	22.25	22.14	22.23	20.03	19.92	20.01
	Sub - Test 4	22.24	22.13	22.22	20.02	19.91	20.00
HSUPA	Sub - Test 1	21.73	21.62	21.71	19.51	19.40	19.49
	Sub - Test 2	19.72	19.61	19.70	17.50	17.39	17.48
	Sub - Test 3	20.70	20.60	20.69	18.48	18.38	18.47
	Sub - Test 4	19.69	19.59	19.68	17.47	17.37	17.46
	Sub - Test 5	23.18	23.08	23.17	20.96	20.86	20.95
DC-HSDPA	Sub - Test 1	22.69	22.60	22.67	20.47	20.38	20.45
	Sub - Test 2	22.68	22.59	22.66	20.46	20.37	20.44
	Sub - Test 3	22.26	22.08	22.17	20.04	19.86	19.95
	Sub - Test 4	22.25	22.07	22.16	20.03	19.85	19.94
HSPA+	16QAM	20.84	20.75	20.84	18.62	18.53	18.62

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Maximum Output Power (dBm)	EIRP (dBm)
LTE Band4	1.4	19957	1	#0	QPSK	24.11	21.89
LTE Band4	1.4	19957	1	#Mid	QPSK	24.34	22.12
LTE Band4	1.4	19957	1	#Max	QPSK	24.14	21.92
LTE Band4	1.4	19957	3	#0	QPSK	24.12	21.90
LTE Band4	1.4	19957	3	#Mid	QPSK	24.10	21.88
LTE Band4	1.4	19957	3	#Max	QPSK	24.12	21.90
LTE Band4	1.4	19957	6	#0	QPSK	23.16	20.94
LTE Band4	1.4	19957	1	#0	16QAM	23.02	20.80
LTE Band4	1.4	19957	1	#Mid	16QAM	23.26	21.04
LTE Band4	1.4	19957	1	#Max	16QAM	23.03	20.81
LTE Band4	1.4	19957	3	#0	16QAM	23.20	20.98
LTE Band4	1.4	19957	3	#Mid	16QAM	23.20	20.98
LTE Band4	1.4	19957	3	#Max	16QAM	23.24	21.02
LTE Band4	1.4	19957	6	#0	16QAM	22.10	19.88
LTE Band4	1.4	20175	1	#0	QPSK	23.78	21.73
LTE Band4	1.4	20175	1	#Mid	QPSK	24.01	21.96
LTE Band4	1.4	20175	1	#Max	QPSK	23.76	21.71
LTE Band4	1.4	20175	3	#0	QPSK	23.89	21.84
LTE Band4	1.4	20175	3	#Mid	QPSK	23.88	21.83
LTE Band4	1.4	20175	3	#Max	QPSK	23.86	21.81
LTE Band4	1.4	20175	6	#0	QPSK	22.88	20.83
LTE Band4	1.4	20175	1	#0	16QAM	22.95	20.90
LTE Band4	1.4	20175	1	#Mid	16QAM	23.17	21.12
LTE Band4	1.4	20175	1	#Max	16QAM	22.98	20.93
LTE Band4	1.4	20175	3	#0	16QAM	22.88	20.83
LTE Band4	1.4	20175	3	#Mid	16QAM	22.89	20.84
LTE Band4	1.4	20175	3	#Max	16QAM	22.89	20.84
LTE Band4	1.4	20175	6	#0	16QAM	21.81	19.76
LTE Band4	1.4	20393	1	#0	QPSK	23.85	22.05
LTE Band4	1.4	20393	1	#Mid	QPSK	24.01	22.21
LTE Band4	1.4	20393	1	#Max	QPSK	23.86	22.06
LTE Band4	1.4	20393	3	#0	QPSK	23.84	22.04
LTE Band4	1.4	20393	3	#Mid	QPSK	23.83	22.03
LTE Band4	1.4	20393	3	#Max	QPSK	23.81	22.01
LTE Band4	1.4	20393	6	#0	QPSK	22.83	21.03
LTE Band4	1.4	20393	1	#0	16QAM	22.63	20.83
LTE Band4	1.4	20393	1	#Mid	16QAM	22.77	20.97
LTE Band4	1.4	20393	1	#Max	16QAM	22.64	20.84
LTE Band4	1.4	20393	3	#0	16QAM	22.75	20.95

LTE Band4	1.4	20393	3	#Mid	16QAM	22.74	20.94
LTE Band4	1.4	20393	3	#Max	16QAM	22.76	20.96
LTE Band4	1.4	20393	6	#0	16QAM	21.77	19.97
LTE Band4	3	19965	1	#0	QPSK	24.05	21.83
LTE Band4	3	19965	1	#Mid	QPSK	24.08	21.86
LTE Band4	3	19965	1	#Max	QPSK	24.06	21.84
LTE Band4	3	19965	8	#0	QPSK	23.15	20.93
LTE Band4	3	19965	8	#Mid	QPSK	23.12	20.90
LTE Band4	3	19965	8	#Max	QPSK	23.11	20.89
LTE Band4	3	19965	15	#0	QPSK	23.06	20.84
LTE Band4	3	19965	1	#0	16QAM	23.30	21.08
LTE Band4	3	19965	1	#Mid	16QAM	23.29	21.07
LTE Band4	3	19965	1	#Max	16QAM	23.29	21.07
LTE Band4	3	19965	8	#0	16QAM	22.10	19.88
LTE Band4	3	19965	8	#Mid	16QAM	22.10	19.88
LTE Band4	3	19965	8	#Max	16QAM	22.12	19.90
LTE Band4	3	19965	15	#0	16QAM	22.03	19.81
LTE Band4	3	20175	1	#0	QPSK	23.86	21.81
LTE Band4	3	20175	1	#Mid	QPSK	23.85	21.80
LTE Band4	3	20175	1	#Max	QPSK	23.85	21.80
LTE Band4	3	20175	8	#0	QPSK	22.90	20.85
LTE Band4	3	20175	8	#Mid	QPSK	22.91	20.86
LTE Band4	3	20175	8	#Max	QPSK	22.90	20.85
LTE Band4	3	20175	15	#0	QPSK	22.86	20.81
LTE Band4	3	20175	1	#0	16QAM	23.06	21.01
LTE Band4	3	20175	1	#Mid	16QAM	23.01	20.96
LTE Band4	3	20175	1	#Max	16QAM	23.07	21.02
LTE Band4	3	20175	8	#0	16QAM	21.89	19.84
LTE Band4	3	20175	8	#Mid	16QAM	21.88	19.83
LTE Band4	3	20175	8	#Max	16QAM	21.90	19.85
LTE Band4	3	20175	15	#0	16QAM	21.76	19.71
LTE Band4	3	20385	1	#0	QPSK	23.90	22.10
LTE Band4	3	20385	1	#Mid	QPSK	23.88	22.08
LTE Band4	3	20385	1	#Max	QPSK	23.94	22.14
LTE Band4	3	20385	8	#0	QPSK	22.82	21.02
LTE Band4	3	20385	8	#Mid	QPSK	22.83	21.03
LTE Band4	3	20385	8	#Max	QPSK	22.81	21.01
LTE Band4	3	20385	15	#0	QPSK	22.76	20.96
LTE Band4	3	20385	1	#0	16QAM	22.68	20.88
LTE Band4	3	20385	1	#Mid	16QAM	22.67	20.87
LTE Band4	3	20385	1	#Max	16QAM	22.67	20.87
LTE Band4	3	20385	8	#0	16QAM	21.81	20.01
LTE Band4	3	20385	8	#Mid	16QAM	21.81	20.01

LTE Band4	3	20385	8	#Max	16QAM	21.78	19.98
LTE Band4	3	20385	15	#0	16QAM	21.76	19.96
LTE Band4	5	19975	1	#0	QPSK	24.05	21.83
LTE Band4	5	19975	1	#Mid	QPSK	24.14	21.92
LTE Band4	5	19975	1	#Max	QPSK	24.02	21.80
LTE Band4	5	19975	12	#0	QPSK	23.10	20.88
LTE Band4	5	19975	12	#Mid	QPSK	23.14	20.92
LTE Band4	5	19975	12	#Max	QPSK	23.08	20.86
LTE Band4	5	19975	25	#0	QPSK	23.09	20.87
LTE Band4	5	19975	1	#0	16QAM	23.16	20.94
LTE Band4	5	19975	1	#Mid	16QAM	23.25	21.03
LTE Band4	5	19975	1	#Max	16QAM	23.18	20.96
LTE Band4	5	19975	12	#0	16QAM	22.03	19.81
LTE Band4	5	19975	12	#Mid	16QAM	22.03	19.81
LTE Band4	5	19975	12	#Max	16QAM	22.00	19.78
LTE Band4	5	19975	25	#0	16QAM	22.05	19.83
LTE Band4	5	20175	1	#0	QPSK	23.78	21.73
LTE Band4	5	20175	1	#Mid	QPSK	23.84	21.79
LTE Band4	5	20175	1	#Max	QPSK	23.73	21.68
LTE Band4	5	20175	12	#0	QPSK	22.92	20.87
LTE Band4	5	20175	12	#Mid	QPSK	22.90	20.85
LTE Band4	5	20175	12	#Max	QPSK	22.87	20.82
LTE Band4	5	20175	25	#0	QPSK	22.88	20.83
LTE Band4	5	20175	1	#0	16QAM	23.05	21.00
LTE Band4	5	20175	1	#Mid	16QAM	23.11	21.06
LTE Band4	5	20175	1	#Max	16QAM	23.00	20.95
LTE Band4	5	20175	12	#0	16QAM	21.92	19.87
LTE Band4	5	20175	12	#Mid	16QAM	21.95	19.90
LTE Band4	5	20175	12	#Max	16QAM	21.89	19.84
LTE Band4	5	20175	25	#0	16QAM	21.92	19.87
LTE Band4	5	20375	1	#0	QPSK	23.75	21.95
LTE Band4	5	20375	1	#Mid	QPSK	23.84	22.04
LTE Band4	5	20375	1	#Max	QPSK	23.73	21.93
LTE Band4	5	20375	12	#0	QPSK	22.80	21.00
LTE Band4	5	20375	12	#Mid	QPSK	22.79	20.99
LTE Band4	5	20375	12	#Max	QPSK	22.79	20.99
LTE Band4	5	20375	25	#0	QPSK	22.79	20.99
LTE Band4	5	20375	1	#0	16QAM	22.95	21.15
LTE Band4	5	20375	1	#Mid	16QAM	23.04	21.24
LTE Band4	5	20375	1	#Max	16QAM	22.92	21.12
LTE Band4	5	20375	12	#0	16QAM	21.73	19.93
LTE Band4	5	20375	12	#Mid	16QAM	21.74	19.94
LTE Band4	5	20375	12	#Max	16QAM	21.75	19.95

LTE Band4	5	20375	25	#0	16QAM	21.82	20.02
LTE Band4	10	20000	1	#0	QPSK	24.09	21.78
LTE Band4	10	20000	1	#Mid	QPSK	24.24	21.93
LTE Band4	10	20000	1	#Max	QPSK	24.07	21.76
LTE Band4	10	20000	25	#0	QPSK	23.16	20.85
LTE Band4	10	20000	25	#Mid	QPSK	23.15	20.84
LTE Band4	10	20000	25	#Max	QPSK	23.09	20.78
LTE Band4	10	20000	50	#0	QPSK	23.10	20.79
LTE Band4	10	20000	1	#0	16QAM	23.17	20.86
LTE Band4	10	20000	1	#Mid	16QAM	23.36	21.05
LTE Band4	10	20000	1	#Max	16QAM	23.18	20.87
LTE Band4	10	20000	25	#0	16QAM	22.15	19.84
LTE Band4	10	20000	25	#Mid	16QAM	22.17	19.86
LTE Band4	10	20000	25	#Max	16QAM	22.12	19.81
LTE Band4	10	20000	50	#0	16QAM	22.11	19.80
LTE Band4	10	20175	1	#0	QPSK	24.02	21.97
LTE Band4	10	20175	1	#Mid	QPSK	24.07	22.02
LTE Band4	10	20175	1	#Max	QPSK	23.95	21.90
LTE Band4	10	20175	25	#0	QPSK	22.97	20.92
LTE Band4	10	20175	25	#Mid	QPSK	22.96	20.91
LTE Band4	10	20175	25	#Max	QPSK	22.96	20.91
LTE Band4	10	20175	50	#0	QPSK	22.95	20.90
LTE Band4	10	20175	1	#0	16QAM	22.81	20.76
LTE Band4	10	20175	1	#Mid	16QAM	22.86	20.81
LTE Band4	10	20175	1	#Max	16QAM	22.76	20.71
LTE Band4	10	20175	25	#0	16QAM	21.99	19.94
LTE Band4	10	20175	25	#Mid	16QAM	21.98	19.93
LTE Band4	10	20175	25	#Max	16QAM	21.92	19.87
LTE Band4	10	20175	50	#0	16QAM	21.96	19.91
LTE Band4	10	20350	1	#0	QPSK	23.83	22.03
LTE Band4	10	20350	1	#Mid	QPSK	23.96	22.16
LTE Band4	10	20350	1	#Max	QPSK	23.78	21.98
LTE Band4	10	20350	25	#0	QPSK	22.85	21.05
LTE Band4	10	20350	25	#Mid	QPSK	22.88	21.08
LTE Band4	10	20350	25	#Max	QPSK	22.89	21.09
LTE Band4	10	20350	50	#0	QPSK	22.86	21.06
LTE Band4	10	20350	1	#0	16QAM	23.08	21.28
LTE Band4	10	20350	1	#Mid	16QAM	23.15	21.35
LTE Band4	10	20350	1	#Max	16QAM	23.00	21.20
LTE Band4	10	20350	25	#0	16QAM	21.94	20.14
LTE Band4	10	20350	25	#Mid	16QAM	21.93	20.13
LTE Band4	10	20350	25	#Max	16QAM	21.94	20.14
LTE Band4	10	20350	50	#0	16QAM	21.84	20.04

LTE Band4	15	20025	1	#0	QPSK	23.99	21.68
LTE Band4	15	20025	1	#Mid	QPSK	24.06	21.75
LTE Band4	15	20025	1	#Max	QPSK	23.90	21.59
LTE Band4	15	20025	36	#0	QPSK	23.19	20.88
LTE Band4	15	20025	36	#Mid	QPSK	23.23	20.92
LTE Band4	15	20025	36	#Max	QPSK	23.12	20.81
LTE Band4	15	20025	75	#0	QPSK	23.16	20.85
LTE Band4	15	20025	1	#0	16QAM	23.19	20.88
LTE Band4	15	20025	1	#Mid	16QAM	23.30	20.99
LTE Band4	15	20025	1	#Max	16QAM	23.14	20.83
LTE Band4	15	20025	36	#0	16QAM	22.12	19.81
LTE Band4	15	20025	36	#Mid	16QAM	22.17	19.86
LTE Band4	15	20025	36	#Max	16QAM	22.10	19.79
LTE Band4	15	20025	75	#0	16QAM	22.14	19.83
LTE Band4	15	20175	1	#0	QPSK	23.89	21.84
LTE Band4	15	20175	1	#Mid	QPSK	23.93	21.88
LTE Band4	15	20175	1	#Max	QPSK	23.75	21.70
LTE Band4	15	20175	36	#0	QPSK	23.02	20.97
LTE Band4	15	20175	36	#Mid	QPSK	23.05	21.00
LTE Band4	15	20175	36	#Max	QPSK	22.96	20.91
LTE Band4	15	20175	75	#0	QPSK	23.01	20.96
LTE Band4	15	20175	1	#0	16QAM	23.02	20.97
LTE Band4	15	20175	1	#Mid	16QAM	23.04	20.99
LTE Band4	15	20175	1	#Max	16QAM	22.91	20.86
LTE Band4	15	20175	36	#0	16QAM	21.96	19.91
LTE Band4	15	20175	36	#Mid	16QAM	21.97	19.92
LTE Band4	15	20175	36	#Max	16QAM	21.91	19.86
LTE Band4	15	20175	75	#0	16QAM	21.98	19.93
LTE Band4	15	20325	1	#0	QPSK	23.86	22.06
LTE Band4	15	20325	1	#Mid	QPSK	23.93	22.13
LTE Band4	15	20325	1	#Max	QPSK	23.83	22.03
LTE Band4	15	20325	36	#0	QPSK	22.90	21.10
LTE Band4	15	20325	36	#Mid	QPSK	22.90	21.10
LTE Band4	15	20325	36	#Max	QPSK	22.98	21.18
LTE Band4	15	20325	75	#0	QPSK	22.97	21.17
LTE Band4	15	20325	1	#0	16QAM	22.81	21.01
LTE Band4	15	20325	1	#Mid	16QAM	22.88	21.08
LTE Band4	15	20325	1	#Max	16QAM	22.73	20.93
LTE Band4	15	20325	36	#0	16QAM	21.86	20.06
LTE Band4	15	20325	36	#Mid	16QAM	21.82	20.02
LTE Band4	15	20325	36	#Max	16QAM	21.87	20.07
LTE Band4	15	20325	75	#0	16QAM	21.89	20.09
LTE Band4	20	20050	1	#0	QPSK	23.92	21.61

LTE Band4	20	20050	1	#Mid	QPSK	24.24	21.93
LTE Band4	20	20050	1	#Max	QPSK	23.77	21.46
LTE Band4	20	20050	50	#0	QPSK	23.12	20.81
LTE Band4	20	20050	50	#Mid	QPSK	23.11	20.80
LTE Band4	20	20050	50	#Max	QPSK	22.97	20.66
LTE Band4	20	20050	100	#0	QPSK	23.02	20.71
LTE Band4	20	20050	1	#0	16QAM	23.03	20.72
LTE Band4	20	20050	1	#Mid	16QAM	23.33	21.02
LTE Band4	20	20050	1	#Max	16QAM	22.96	20.65
LTE Band4	20	20050	50	#0	16QAM	22.12	19.81
LTE Band4	20	20050	50	#Mid	16QAM	22.11	19.80
LTE Band4	20	20050	50	#Max	16QAM	21.94	19.63
LTE Band4	20	20050	100	#0	16QAM	22.02	19.71
LTE Band4	20	20175	1	#0	QPSK	23.86	21.81
LTE Band4	20	20175	1	#Mid	QPSK	24.06	22.01
LTE Band4	20	20175	1	#Max	QPSK	23.76	21.71
LTE Band4	20	20175	50	#0	QPSK	23.00	20.95
LTE Band4	20	20175	50	#Mid	QPSK	22.97	20.92
LTE Band4	20	20175	50	#Max	QPSK	22.87	20.82
LTE Band4	20	20175	100	#0	QPSK	22.92	20.87
LTE Band4	20	20175	1	#0	16QAM	22.65	20.60
LTE Band4	20	20175	1	#Mid	16QAM	22.90	20.85
LTE Band4	20	20175	1	#Max	16QAM	22.55	20.50
LTE Band4	20	20175	50	#0	16QAM	21.96	19.91
LTE Band4	20	20175	50	#Mid	16QAM	21.97	19.92
LTE Band4	20	20175	50	#Max	16QAM	21.86	19.81
LTE Band4	20	20175	100	#0	16QAM	21.92	19.87
LTE Band4	20	20300	1	#0	QPSK	23.67	21.87
LTE Band4	20	20300	1	#Mid	QPSK	24.00	22.20
LTE Band4	20	20300	1	#Max	QPSK	23.67	21.87
LTE Band4	20	20300	50	#0	QPSK	22.82	21.02
LTE Band4	20	20300	50	#Mid	QPSK	22.81	21.01
LTE Band4	20	20300	50	#Max	QPSK	22.82	21.02
LTE Band4	20	20300	100	#0	QPSK	22.80	21.00
LTE Band4	20	20300	1	#0	16QAM	22.42	20.62
LTE Band4	20	20300	1	#Mid	16QAM	22.75	20.95
LTE Band4	20	20300	1	#Max	16QAM	22.34	20.54
LTE Band4	20	20300	50	#0	16QAM	21.82	20.02
LTE Band4	20	20300	50	#Mid	16QAM	21.82	20.02
LTE Band4	20	20300	50	#Max	16QAM	21.84	20.04
LTE Band4	20	20300	100	#0	16QAM	21.83	20.03
LTE Band4	1.4	19957	1	#0	64QAM	22.61	20.39
LTE Band4	1.4	19957	1	#Mid	64QAM	22.74	20.52

LTE Band4	1.4	19957	1	#Max	64QAM	22.65	20.43
LTE Band4	1.4	19957	3	#0	64QAM	22.77	20.55
LTE Band4	1.4	19957	3	#Mid	64QAM	22.76	20.54
LTE Band4	1.4	19957	3	#Max	64QAM	22.75	20.53
LTE Band4	1.4	19957	6	#0	64QAM	21.78	19.56
LTE Band4	1.4	20175	1	#0	64QAM	22.55	20.50
LTE Band4	1.4	20175	1	#Mid	64QAM	22.77	20.72
LTE Band4	1.4	20175	1	#Max	64QAM	22.54	20.49
LTE Band4	1.4	20175	3	#0	64QAM	22.73	20.68
LTE Band4	1.4	20175	3	#Mid	64QAM	22.71	20.66
LTE Band4	1.4	20175	3	#Max	64QAM	22.76	20.71
LTE Band4	1.4	20175	6	#0	64QAM	21.61	19.56
LTE Band4	1.4	20393	1	#0	64QAM	22.57	20.77
LTE Band4	1.4	20393	1	#Mid	64QAM	22.76	20.96
LTE Band4	1.4	20393	1	#Max	64QAM	22.62	20.82
LTE Band4	1.4	20393	3	#0	64QAM	22.47	20.67
LTE Band4	1.4	20393	3	#Mid	64QAM	22.47	20.67
LTE Band4	1.4	20393	3	#Max	64QAM	22.48	20.68
LTE Band4	1.4	20393	6	#0	64QAM	21.43	19.63
LTE Band4	3	19965	1	#0	64QAM	23.00	20.78
LTE Band4	3	19965	1	#Mid	64QAM	22.98	20.76
LTE Band4	3	19965	1	#Max	64QAM	22.98	20.76
LTE Band4	3	19965	8	#0	64QAM	21.76	19.54
LTE Band4	3	19965	8	#Mid	64QAM	21.79	19.57
LTE Band4	3	19965	8	#Max	64QAM	21.80	19.58
LTE Band4	3	19965	15	#0	64QAM	21.73	19.51
LTE Band4	3	20175	1	#0	64QAM	22.75	20.70
LTE Band4	3	20175	1	#Mid	64QAM	22.75	20.70
LTE Band4	3	20175	1	#Max	64QAM	22.76	20.71
LTE Band4	3	20175	8	#0	64QAM	21.56	19.51
LTE Band4	3	20175	8	#Mid	64QAM	21.59	19.54
LTE Band4	3	20175	8	#Max	64QAM	21.56	19.51
LTE Band4	3	20175	15	#0	64QAM	21.44	19.39
LTE Band4	3	20385	1	#0	64QAM	22.34	20.54
LTE Band4	3	20385	1	#Mid	64QAM	22.37	20.57
LTE Band4	3	20385	1	#Max	64QAM	22.38	20.58
LTE Band4	3	20385	8	#0	64QAM	21.51	19.71
LTE Band4	3	20385	8	#Mid	64QAM	21.51	19.71
LTE Band4	3	20385	8	#Max	64QAM	21.53	19.73
LTE Band4	3	20385	15	#0	64QAM	21.45	19.65
LTE Band4	5	19975	1	#0	64QAM	22.93	20.71
LTE Band4	5	19975	1	#Mid	64QAM	23.00	20.78
LTE Band4	5	19975	1	#Max	64QAM	22.94	20.72

LTE Band4	5	19975	12	#0	64QAM	21.75	19.53
LTE Band4	5	19975	12	#Mid	64QAM	21.75	19.53
LTE Band4	5	19975	12	#Max	64QAM	21.73	19.51
LTE Band4	5	19975	25	#0	64QAM	21.79	19.57
LTE Band4	5	20175	1	#0	64QAM	22.73	20.68
LTE Band4	5	20175	1	#Mid	64QAM	22.78	20.73
LTE Band4	5	20175	1	#Max	64QAM	22.68	20.63
LTE Band4	5	20175	12	#0	64QAM	21.58	19.53
LTE Band4	5	20175	12	#Mid	64QAM	21.57	19.52
LTE Band4	5	20175	12	#Max	64QAM	21.54	19.49
LTE Band4	5	20175	25	#0	64QAM	21.61	19.56
LTE Band4	5	20375	1	#0	64QAM	22.60	20.80
LTE Band4	5	20375	1	#Mid	64QAM	22.70	20.90
LTE Band4	5	20375	1	#Max	64QAM	22.62	20.82
LTE Band4	5	20375	12	#0	64QAM	21.46	19.66
LTE Band4	5	20375	12	#Mid	64QAM	21.47	19.67
LTE Band4	5	20375	12	#Max	64QAM	21.50	19.70
LTE Band4	5	20375	25	#0	64QAM	21.49	19.69
LTE Band4	10	20000	1	#0	64QAM	22.91	20.60
LTE Band4	10	20000	1	#Mid	64QAM	22.93	20.62
LTE Band4	10	20000	1	#Max	64QAM	22.92	20.61
LTE Band4	10	20000	25	#0	64QAM	21.85	19.54
LTE Band4	10	20000	25	#Mid	64QAM	21.87	19.56
LTE Band4	10	20000	25	#Max	64QAM	21.82	19.51
LTE Band4	10	20000	50	#0	64QAM	21.79	19.48
LTE Band4	10	20175	1	#0	64QAM	22.49	20.44
LTE Band4	10	20175	1	#Mid	64QAM	22.67	20.62
LTE Band4	10	20175	1	#Max	64QAM	22.48	20.43
LTE Band4	10	20175	25	#0	64QAM	21.70	19.65
LTE Band4	10	20175	25	#Mid	64QAM	22.21	20.16
LTE Band4	10	20175	25	#Max	64QAM	21.66	19.61
LTE Band4	10	20175	50	#0	64QAM	21.68	19.63
LTE Band4	10	20350	1	#0	64QAM	22.74	20.94
LTE Band4	10	20350	1	#Mid	64QAM	22.87	21.07
LTE Band4	10	20350	1	#Max	64QAM	22.67	20.87
LTE Band4	10	20350	25	#0	64QAM	21.60	19.80
LTE Band4	10	20350	25	#Mid	64QAM	21.62	19.82
LTE Band4	10	20350	25	#Max	64QAM	21.66	19.86
LTE Band4	10	20350	50	#0	64QAM	21.54	19.74
LTE Band4	15	20025	1	#0	64QAM	22.73	20.42
LTE Band4	15	20025	1	#Mid	64QAM	22.77	20.46
LTE Band4	15	20025	1	#Max	64QAM	22.66	20.35
LTE Band4	15	20025	36	#0	64QAM	21.82	19.51

LTE Band4	15	20025	36	#Mid	64QAM	21.83	19.52
LTE Band4	15	20025	36	#Max	64QAM	21.75	19.44
LTE Band4	15	20025	75	#0	64QAM	21.81	19.50
LTE Band4	15	20175	1	#0	64QAM	22.79	20.74
LTE Band4	15	20175	1	#Mid	64QAM	22.82	20.77
LTE Band4	15	20175	1	#Max	64QAM	22.68	20.63
LTE Band4	15	20175	36	#0	64QAM	21.74	19.69
LTE Band4	15	20175	36	#Mid	64QAM	21.72	19.67
LTE Band4	15	20175	36	#Max	64QAM	21.60	19.55
LTE Band4	15	20175	75	#0	64QAM	21.69	19.64
LTE Band4	15	20325	1	#0	64QAM	22.63	20.83
LTE Band4	15	20325	1	#Mid	64QAM	22.65	20.85
LTE Band4	15	20325	1	#Max	64QAM	22.51	20.71
LTE Band4	15	20325	36	#0	64QAM	21.54	19.74
LTE Band4	15	20325	36	#Mid	64QAM	21.55	19.75
LTE Band4	15	20325	36	#Max	64QAM	21.57	19.77
LTE Band4	15	20325	75	#0	64QAM	21.56	19.76
LTE Band4	20	20050	1	#0	64QAM	22.31	20.00
LTE Band4	20	20050	1	#Mid	64QAM	22.62	20.31
LTE Band4	20	20050	1	#Max	64QAM	22.22	19.91
LTE Band4	20	20050	50	#0	64QAM	21.84	19.53
LTE Band4	20	20050	50	#Mid	64QAM	21.85	19.54
LTE Band4	20	20050	50	#Max	64QAM	21.67	19.36
LTE Band4	20	20050	100	#0	64QAM	21.70	19.39
LTE Band4	20	20175	1	#0	64QAM	22.63	20.58
LTE Band4	20	20175	1	#Mid	64QAM	22.86	20.81
LTE Band4	20	20175	1	#Max	64QAM	22.54	20.49
LTE Band4	20	20175	50	#0	64QAM	21.68	19.63
LTE Band4	20	20175	50	#Mid	64QAM	21.69	19.64
LTE Band4	20	20175	50	#Max	64QAM	21.58	19.53
LTE Band4	20	20175	100	#0	64QAM	21.61	19.56
LTE Band4	20	20300	1	#0	64QAM	22.24	20.44
LTE Band4	20	20300	1	#Mid	64QAM	22.53	20.73
LTE Band4	20	20300	1	#Max	64QAM	22.15	20.35
LTE Band4	20	20300	50	#0	64QAM	21.45	19.65
LTE Band4	20	20300	50	#Mid	64QAM	21.46	19.66
LTE Band4	20	20300	50	#Max	64QAM	21.50	19.70
LTE Band4	20	20300	100	#0	64QAM	21.52	19.72

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Maximum Output Power (dBm)	EIRP (dBm)
LTE Band7	5	20775	1	#0	QPSK	22.29	18.63
LTE Band7	5	20775	1	#Mid	QPSK	22.40	18.74
LTE Band7	5	20775	1	#Max	QPSK	22.29	18.63
LTE Band7	5	20775	12	#0	QPSK	21.40	17.74
LTE Band7	5	20775	12	#Mid	QPSK	21.40	17.74
LTE Band7	5	20775	12	#Max	QPSK	21.41	17.75
LTE Band7	5	20775	25	#0	QPSK	21.45	17.79
LTE Band7	5	20775	1	#0	16QAM	21.60	17.94
LTE Band7	5	20775	1	#Mid	16QAM	21.65	17.99
LTE Band7	5	20775	1	#Max	16QAM	21.55	17.89
LTE Band7	5	20775	12	#0	16QAM	20.45	16.79
LTE Band7	5	20775	12	#Mid	16QAM	20.45	16.79
LTE Band7	5	20775	12	#Max	16QAM	20.49	16.83
LTE Band7	5	20775	25	#0	16QAM	20.49	16.83
LTE Band7	5	21100	1	#0	QPSK	22.28	18.12
LTE Band7	5	21100	1	#Mid	QPSK	22.37	18.21
LTE Band7	5	21100	1	#Max	QPSK	22.28	18.12
LTE Band7	5	21100	12	#0	QPSK	21.28	17.12
LTE Band7	5	21100	12	#Mid	QPSK	21.32	17.16
LTE Band7	5	21100	12	#Max	QPSK	21.34	17.18
LTE Band7	5	21100	25	#0	QPSK	21.34	17.18
LTE Band7	5	21100	1	#0	16QAM	21.53	17.37
LTE Band7	5	21100	1	#Mid	16QAM	21.62	17.46
LTE Band7	5	21100	1	#Max	16QAM	21.57	17.41
LTE Band7	5	21100	12	#0	16QAM	20.39	16.23
LTE Band7	5	21100	12	#Mid	16QAM	20.34	16.18
LTE Band7	5	21100	12	#Max	16QAM	20.35	16.19
LTE Band7	5	21100	25	#0	16QAM	20.41	16.25
LTE Band7	5	21425	1	#0	QPSK	22.49	18.32
LTE Band7	5	21425	1	#Mid	QPSK	22.60	18.43
LTE Band7	5	21425	1	#Max	QPSK	22.54	18.37
LTE Band7	5	21425	12	#0	QPSK	21.55	17.38
LTE Band7	5	21425	12	#Mid	QPSK	21.57	17.40
LTE Band7	5	21425	12	#Max	QPSK	21.61	17.44
LTE Band7	5	21425	25	#0	QPSK	21.55	17.38
LTE Band7	5	21425	1	#0	16QAM	21.66	17.49
LTE Band7	5	21425	1	#Mid	16QAM	21.72	17.55
LTE Band7	5	21425	1	#Max	16QAM	21.67	17.50
LTE Band7	5	21425	12	#0	16QAM	20.55	16.38
LTE Band7	5	21425	12	#Mid	16QAM	20.51	16.34

LTE Band7	5	21425	12	#Max	16QAM	20.58	16.41
LTE Band7	5	21425	25	#0	16QAM	20.58	16.41
LTE Band7	10	20800	1	#0	QPSK	22.45	18.50
LTE Band7	10	20800	1	#Mid	QPSK	22.57	18.62
LTE Band7	10	20800	1	#Max	QPSK	22.44	18.49
LTE Band7	10	20800	25	#0	QPSK	21.51	17.56
LTE Band7	10	20800	25	#Mid	QPSK	21.48	17.53
LTE Band7	10	20800	25	#Max	QPSK	21.50	17.55
LTE Band7	10	20800	50	#0	QPSK	21.48	17.53
LTE Band7	10	20800	1	#0	16QAM	21.60	17.65
LTE Band7	10	20800	1	#Mid	16QAM	21.70	17.75
LTE Band7	10	20800	1	#Max	16QAM	21.60	17.65
LTE Band7	10	20800	25	#0	16QAM	20.56	16.61
LTE Band7	10	20800	25	#Mid	16QAM	20.59	16.64
LTE Band7	10	20800	25	#Max	16QAM	20.54	16.59
LTE Band7	10	20800	50	#0	16QAM	20.51	16.56
LTE Band7	10	21100	1	#0	QPSK	22.44	18.28
LTE Band7	10	21100	1	#Mid	QPSK	22.55	18.39
LTE Band7	10	21100	1	#Max	QPSK	22.44	18.28
LTE Band7	10	21100	25	#0	QPSK	21.44	17.28
LTE Band7	10	21100	25	#Mid	QPSK	21.43	17.27
LTE Band7	10	21100	25	#Max	QPSK	21.43	17.27
LTE Band7	10	21100	50	#0	QPSK	21.45	17.29
LTE Band7	10	21100	1	#0	16QAM	21.22	17.06
LTE Band7	10	21100	1	#Mid	16QAM	21.43	17.27
LTE Band7	10	21100	1	#Max	16QAM	21.25	17.09
LTE Band7	10	21100	25	#0	16QAM	20.44	16.28
LTE Band7	10	21100	25	#Mid	16QAM	20.47	16.31
LTE Band7	10	21100	25	#Max	16QAM	20.49	16.33
LTE Band7	10	21100	50	#0	16QAM	20.52	16.36
LTE Band7	10	21400	1	#0	QPSK	22.50	18.33
LTE Band7	10	21400	1	#Mid	QPSK	22.74	18.57
LTE Band7	10	21400	1	#Max	QPSK	22.57	18.40
LTE Band7	10	21400	25	#0	QPSK	21.61	17.44
LTE Band7	10	21400	25	#Mid	QPSK	21.63	17.46
LTE Band7	10	21400	25	#Max	QPSK	21.62	17.45
LTE Band7	10	21400	50	#0	QPSK	21.60	17.43
LTE Band7	10	21400	1	#0	16QAM	21.73	17.56
LTE Band7	10	21400	1	#Mid	16QAM	21.93	17.76
LTE Band7	10	21400	1	#Max	16QAM	21.81	17.64
LTE Band7	10	21400	25	#0	16QAM	20.71	16.54
LTE Band7	10	21400	25	#Mid	16QAM	20.70	16.53
LTE Band7	10	21400	25	#Max	16QAM	20.72	16.55

LTE Band7	10	21400	50	#0	16QAM	20.65	16.48
LTE Band7	15	20825	1	#0	QPSK	22.41	18.46
LTE Band7	15	20825	1	#Mid	QPSK	22.43	18.48
LTE Band7	15	20825	1	#Max	QPSK	22.37	18.42
LTE Band7	15	20825	36	#0	QPSK	21.52	17.57
LTE Band7	15	20825	36	#Mid	QPSK	21.53	17.58
LTE Band7	15	20825	36	#Max	QPSK	21.54	17.59
LTE Band7	15	20825	75	#0	QPSK	21.53	17.58
LTE Band7	15	20825	1	#0	16QAM	21.65	17.70
LTE Band7	15	20825	1	#Mid	16QAM	21.69	17.74
LTE Band7	15	20825	1	#Max	16QAM	21.58	17.63
LTE Band7	15	20825	36	#0	16QAM	20.52	16.57
LTE Band7	15	20825	36	#Mid	16QAM	20.52	16.57
LTE Band7	15	20825	36	#Max	16QAM	20.54	16.59
LTE Band7	15	20825	75	#0	16QAM	20.56	16.61
LTE Band7	15	21100	1	#0	QPSK	22.30	18.14
LTE Band7	15	21100	1	#Mid	QPSK	22.39	18.23
LTE Band7	15	21100	1	#Max	QPSK	22.33	18.17
LTE Band7	15	21100	36	#0	QPSK	21.45	17.29
LTE Band7	15	21100	36	#Mid	QPSK	21.47	17.31
LTE Band7	15	21100	36	#Max	QPSK	21.49	17.33
LTE Band7	15	21100	75	#0	QPSK	21.50	17.34
LTE Band7	15	21100	1	#0	16QAM	21.44	17.28
LTE Band7	15	21100	1	#Mid	16QAM	21.54	17.38
LTE Band7	15	21100	1	#Max	16QAM	21.50	17.34
LTE Band7	15	21100	36	#0	16QAM	20.45	16.29
LTE Band7	15	21100	36	#Mid	16QAM	20.45	16.29
LTE Band7	15	21100	36	#Max	16QAM	20.46	16.30
LTE Band7	15	21100	75	#0	16QAM	20.48	16.32
LTE Band7	15	21375	1	#0	QPSK	22.55	18.44
LTE Band7	15	21375	1	#Mid	QPSK	22.66	18.55
LTE Band7	15	21375	1	#Max	QPSK	22.62	18.51
LTE Band7	15	21375	36	#0	QPSK	21.62	17.51
LTE Band7	15	21375	36	#Mid	QPSK	21.63	17.52
LTE Band7	15	21375	36	#Max	QPSK	21.71	17.60
LTE Band7	15	21375	75	#0	QPSK	21.64	17.53
LTE Band7	15	21375	1	#0	16QAM	21.47	17.36
LTE Band7	15	21375	1	#Mid	16QAM	21.59	17.48
LTE Band7	15	21375	1	#Max	16QAM	21.55	17.44
LTE Band7	15	21375	36	#0	16QAM	20.62	16.51
LTE Band7	15	21375	36	#Mid	16QAM	20.57	16.46
LTE Band7	15	21375	36	#Max	16QAM	20.64	16.53
LTE Band7	15	21375	75	#0	16QAM	20.68	16.57

LTE Band7	20	20850	1	#0	QPSK	22.29	18.34
LTE Band7	20	20850	1	#Mid	QPSK	22.51	18.56
LTE Band7	20	20850	1	#Max	QPSK	22.27	18.32
LTE Band7	20	20850	50	#0	QPSK	21.42	17.47
LTE Band7	20	20850	50	#Mid	QPSK	21.38	17.43
LTE Band7	20	20850	50	#Max	QPSK	21.37	17.42
LTE Band7	20	20850	100	#0	QPSK	21.44	17.49
LTE Band7	20	20850	1	#0	16QAM	21.46	17.51
LTE Band7	20	20850	1	#Mid	16QAM	21.77	17.82
LTE Band7	20	20850	1	#Max	16QAM	21.47	17.52
LTE Band7	20	20850	50	#0	16QAM	20.47	16.52
LTE Band7	20	20850	50	#Mid	16QAM	20.44	16.49
LTE Band7	20	20850	50	#Max	16QAM	20.44	16.49
LTE Band7	20	20850	100	#0	16QAM	20.43	16.48
LTE Band7	20	21100	1	#0	QPSK	22.30	18.14
LTE Band7	20	21100	1	#Mid	QPSK	22.73	18.57
LTE Band7	20	21100	1	#Max	QPSK	22.37	18.21
LTE Band7	20	21100	50	#0	QPSK	21.36	17.20
LTE Band7	20	21100	50	#Mid	QPSK	21.34	17.18
LTE Band7	20	21100	50	#Max	QPSK	21.41	17.25
LTE Band7	20	21100	100	#0	QPSK	21.41	17.25
LTE Band7	20	21100	1	#0	16QAM	21.06	16.90
LTE Band7	20	21100	1	#Mid	16QAM	21.39	17.23
LTE Band7	20	21100	1	#Max	16QAM	21.17	17.01
LTE Band7	20	21100	50	#0	16QAM	20.37	16.21
LTE Band7	20	21100	50	#Mid	16QAM	20.39	16.23
LTE Band7	20	21100	50	#Max	16QAM	20.47	16.31
LTE Band7	20	21100	100	#0	16QAM	20.49	16.33
LTE Band7	20	21350	1	#0	QPSK	22.32	18.21
LTE Band7	20	21350	1	#Mid	QPSK	22.67	18.56
LTE Band7	20	21350	1	#Max	QPSK	22.46	18.35
LTE Band7	20	21350	50	#0	QPSK	21.49	17.38
LTE Band7	20	21350	50	#Mid	QPSK	21.45	17.34
LTE Band7	20	21350	50	#Max	QPSK	21.57	17.46
LTE Band7	20	21350	100	#0	QPSK	21.55	17.44
LTE Band7	20	21350	1	#0	16QAM	21.08	16.97
LTE Band7	20	21350	1	#Mid	16QAM	21.47	17.36
LTE Band7	20	21350	1	#Max	16QAM	21.17	17.06
LTE Band7	20	21350	50	#0	16QAM	20.57	16.46
LTE Band7	20	21350	50	#Mid	16QAM	20.57	16.46
LTE Band7	20	21350	50	#Max	16QAM	20.64	16.53
LTE Band7	20	21350	100	#0	16QAM	20.61	16.50
LTE Band7	5	20775	1	#0	64QAM	21.53	17.87

LTE Band7	5	20775	1	#Mid	64QAM	21.60	17.94
LTE Band7	5	20775	1	#Max	64QAM	21.51	17.85
LTE Band7	5	20775	12	#0	64QAM	20.31	16.65
LTE Band7	5	20775	12	#Mid	64QAM	20.32	16.66
LTE Band7	5	20775	12	#Max	64QAM	20.36	16.70
LTE Band7	5	20775	25	#0	64QAM	20.41	16.75
LTE Band7	5	21100	1	#0	64QAM	21.34	17.18
LTE Band7	5	21100	1	#Mid	64QAM	21.40	17.24
LTE Band7	5	21100	1	#Max	64QAM	21.34	17.18
LTE Band7	5	21100	12	#0	64QAM	20.20	16.04
LTE Band7	5	21100	12	#Mid	64QAM	20.22	16.06
LTE Band7	5	21100	12	#Max	64QAM	20.21	16.05
LTE Band7	5	21100	25	#0	64QAM	20.24	16.08
LTE Band7	5	21425	1	#0	64QAM	21.49	17.32
LTE Band7	5	21425	1	#Mid	64QAM	21.58	17.41
LTE Band7	5	21425	1	#Max	64QAM	21.50	17.33
LTE Band7	5	21425	12	#0	64QAM	20.39	16.22
LTE Band7	5	21425	12	#Mid	64QAM	20.37	16.20
LTE Band7	5	21425	12	#Max	64QAM	20.43	16.26
LTE Band7	5	21425	25	#0	64QAM	20.43	16.26
LTE Band7	10	20800	1	#0	64QAM	21.56	17.61
LTE Band7	10	20800	1	#Mid	64QAM	21.77	17.82
LTE Band7	10	20800	1	#Max	64QAM	21.56	17.61
LTE Band7	10	20800	25	#0	64QAM	20.49	16.54
LTE Band7	10	20800	25	#Mid	64QAM	20.46	16.51
LTE Band7	10	20800	25	#Max	64QAM	20.46	16.51
LTE Band7	10	20800	50	#0	64QAM	20.40	16.45
LTE Band7	10	21100	1	#0	64QAM	21.38	17.22
LTE Band7	10	21100	1	#Mid	64QAM	21.54	17.38
LTE Band7	10	21100	1	#Max	64QAM	21.41	17.25
LTE Band7	10	21100	25	#0	64QAM	20.32	16.16
LTE Band7	10	21100	25	#Mid	64QAM	20.32	16.16
LTE Band7	10	21100	25	#Max	64QAM	20.34	16.18
LTE Band7	10	21100	50	#0	64QAM	20.28	16.12
LTE Band7	10	21400	1	#0	64QAM	21.17	17.00
LTE Band7	10	21400	1	#Mid	64QAM	21.38	17.21
LTE Band7	10	21400	1	#Max	64QAM	21.24	17.07
LTE Band7	10	21400	25	#0	64QAM	20.45	16.28
LTE Band7	10	21400	25	#Mid	64QAM	20.46	16.29
LTE Band7	10	21400	25	#Max	64QAM	20.44	16.27
LTE Band7	10	21400	50	#0	64QAM	20.45	16.28
LTE Band7	15	20825	1	#0	64QAM	21.31	17.36
LTE Band7	15	20825	1	#Mid	64QAM	21.38	17.43

LTE Band7	15	20825	1	#Max	64QAM	21.26	17.31
LTE Band7	15	20825	36	#0	64QAM	20.37	16.42
LTE Band7	15	20825	36	#Mid	64QAM	20.39	16.44
LTE Band7	15	20825	36	#Max	64QAM	20.38	16.43
LTE Band7	15	20825	75	#0	64QAM	20.44	16.49
LTE Band7	15	21100	1	#0	64QAM	21.42	17.26
LTE Band7	15	21100	1	#Mid	64QAM	21.49	17.33
LTE Band7	15	21100	1	#Max	64QAM	21.41	17.25
LTE Band7	15	21100	36	#0	64QAM	20.34	16.18
LTE Band7	15	21100	36	#Mid	64QAM	20.34	16.18
LTE Band7	15	21100	36	#Max	64QAM	20.33	16.17
LTE Band7	15	21100	75	#0	64QAM	20.34	16.18
LTE Band7	15	21375	1	#0	64QAM	21.38	17.27
LTE Band7	15	21375	1	#Mid	64QAM	21.53	17.42
LTE Band7	15	21375	1	#Max	64QAM	21.46	17.35
LTE Band7	15	21375	36	#0	64QAM	20.43	16.32
LTE Band7	15	21375	36	#Mid	64QAM	20.43	16.32
LTE Band7	15	21375	36	#Max	64QAM	20.42	16.31
LTE Band7	15	21375	75	#0	64QAM	20.47	16.36
LTE Band7	20	20850	1	#0	64QAM	21.05	17.10
LTE Band7	20	20850	1	#Mid	64QAM	21.32	17.37
LTE Band7	20	20850	1	#Max	64QAM	21.01	17.06
LTE Band7	20	20850	50	#0	64QAM	20.28	16.33
LTE Band7	20	20850	50	#Mid	64QAM	20.30	16.35
LTE Band7	20	20850	50	#Max	64QAM	20.26	16.31
LTE Band7	20	20850	100	#0	64QAM	20.34	16.39
LTE Band7	20	21100	1	#0	64QAM	20.85	16.69
LTE Band7	20	21100	1	#Mid	64QAM	21.13	16.97
LTE Band7	20	21100	1	#Max	64QAM	20.85	16.69
LTE Band7	20	21100	50	#0	64QAM	20.27	16.11
LTE Band7	20	21100	50	#Mid	64QAM	20.32	16.16
LTE Band7	20	21100	50	#Max	64QAM	20.33	16.17
LTE Band7	20	21100	100	#0	64QAM	20.28	16.12
LTE Band7	20	21350	1	#0	64QAM	21.33	17.22
LTE Band7	20	21350	1	#Mid	64QAM	21.67	17.56
LTE Band7	20	21350	1	#Max	64QAM	21.42	17.31
LTE Band7	20	21350	50	#0	64QAM	20.37	16.26
LTE Band7	20	21350	50	#Mid	64QAM	20.35	16.24
LTE Band7	20	21350	50	#Max	64QAM	20.41	16.30
LTE Band7	20	21350	100	#0	64QAM	20.38	16.27

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Maximum Output Power (dBm)	EIRP (dBm)
LTE Band12	1.4	23017	1	#0	QPSK	24.39	20.74
LTE Band12	1.4	23017	1	#Mid	QPSK	24.57	20.92
LTE Band12	1.4	23017	1	#Max	QPSK	24.36	20.71
LTE Band12	1.4	23017	3	#0	QPSK	24.37	20.72
LTE Band12	1.4	23017	3	#Mid	QPSK	24.36	20.71
LTE Band12	1.4	23017	3	#Max	QPSK	24.37	20.72
LTE Band12	1.4	23017	6	#0	QPSK	23.38	19.73
LTE Band12	1.4	23017	1	#0	16QAM	23.32	19.67
LTE Band12	1.4	23017	1	#Mid	16QAM	23.63	19.98
LTE Band12	1.4	23017	1	#Max	16QAM	23.33	19.68
LTE Band12	1.4	23017	3	#0	16QAM	23.47	19.82
LTE Band12	1.4	23017	3	#Mid	16QAM	23.49	19.84
LTE Band12	1.4	23017	3	#Max	16QAM	23.49	19.84
LTE Band12	1.4	23017	6	#0	16QAM	22.38	18.73
LTE Band12	1.4	23095	1	#0	QPSK	24.02	20.99
LTE Band12	1.4	23095	1	#Mid	QPSK	24.17	21.14
LTE Band12	1.4	23095	1	#Max	QPSK	24.01	20.98
LTE Band12	1.4	23095	3	#0	QPSK	24.08	21.05
LTE Band12	1.4	23095	3	#Mid	QPSK	24.09	21.06
LTE Band12	1.4	23095	3	#Max	QPSK	24.10	21.07
LTE Band12	1.4	23095	6	#0	QPSK	23.11	20.08
LTE Band12	1.4	23095	1	#0	16QAM	23.20	20.17
LTE Band12	1.4	23095	1	#Mid	16QAM	23.35	20.32
LTE Band12	1.4	23095	1	#Max	16QAM	23.25	20.22
LTE Band12	1.4	23095	3	#0	16QAM	23.07	20.04
LTE Band12	1.4	23095	3	#Mid	16QAM	23.09	20.06
LTE Band12	1.4	23095	3	#Max	16QAM	23.16	20.13
LTE Band12	1.4	23095	6	#0	16QAM	22.07	19.04
LTE Band12	1.4	23173	1	#0	QPSK	24.13	20.87
LTE Band12	1.4	23173	1	#Mid	QPSK	24.28	21.02
LTE Band12	1.4	23173	1	#Max	QPSK	24.14	20.88
LTE Band12	1.4	23173	3	#0	QPSK	24.19	20.93
LTE Band12	1.4	23173	3	#Mid	QPSK	24.21	20.95
LTE Band12	1.4	23173	3	#Max	QPSK	24.14	20.88
LTE Band12	1.4	23173	6	#0	QPSK	23.20	19.94
LTE Band12	1.4	23173	1	#0	16QAM	22.96	19.70
LTE Band12	1.4	23173	1	#Mid	16QAM	23.18	19.92
LTE Band12	1.4	23173	1	#Max	16QAM	23.05	19.79
LTE Band12	1.4	23173	3	#0	16QAM	23.12	19.86

LTE Band12	1.4	23173	3	#Mid	16QAM	23.11	19.85
LTE Band12	1.4	23173	3	#Max	16QAM	23.11	19.85
LTE Band12	1.4	23173	6	#0	16QAM	22.13	18.87
LTE Band12	3	23025	1	#0	QPSK	24.41	20.76
LTE Band12	3	23025	1	#Mid	QPSK	24.34	20.69
LTE Band12	3	23025	1	#Max	QPSK	24.27	20.62
LTE Band12	3	23025	8	#0	QPSK	23.37	19.72
LTE Band12	3	23025	8	#Mid	QPSK	23.39	19.74
LTE Band12	3	23025	8	#Max	QPSK	23.37	19.72
LTE Band12	3	23025	15	#0	QPSK	23.34	19.69
LTE Band12	3	23025	1	#0	16QAM	23.68	20.03
LTE Band12	3	23025	1	#Mid	16QAM	23.61	19.96
LTE Band12	3	23025	1	#Max	16QAM	23.54	19.89
LTE Band12	3	23025	8	#0	16QAM	22.36	18.71
LTE Band12	3	23025	8	#Mid	16QAM	22.39	18.74
LTE Band12	3	23025	8	#Max	16QAM	22.40	18.75
LTE Band12	3	23025	15	#0	16QAM	22.32	18.67
LTE Band12	3	23095	1	#0	QPSK	24.08	21.05
LTE Band12	3	23095	1	#Mid	QPSK	24.07	21.04
LTE Band12	3	23095	1	#Max	QPSK	24.13	21.10
LTE Band12	3	23095	8	#0	QPSK	23.11	20.08
LTE Band12	3	23095	8	#Mid	QPSK	23.11	20.08
LTE Band12	3	23095	8	#Max	QPSK	23.15	20.12
LTE Band12	3	23095	15	#0	QPSK	23.15	20.12
LTE Band12	3	23095	1	#0	16QAM	23.33	20.30
LTE Band12	3	23095	1	#Mid	16QAM	23.26	20.23
LTE Band12	3	23095	1	#Max	16QAM	23.32	20.29
LTE Band12	3	23095	8	#0	16QAM	22.10	19.07
LTE Band12	3	23095	8	#Mid	16QAM	22.11	19.08
LTE Band12	3	23095	8	#Max	16QAM	22.12	19.09
LTE Band12	3	23095	15	#0	16QAM	22.00	18.97
LTE Band12	3	23165	1	#0	QPSK	24.20	21.17
LTE Band12	3	23165	1	#Mid	QPSK	24.24	21.21
LTE Band12	3	23165	1	#Max	QPSK	24.24	21.21
LTE Band12	3	23165	8	#0	QPSK	23.17	20.14
LTE Band12	3	23165	8	#Mid	QPSK	23.21	20.18
LTE Band12	3	23165	8	#Max	QPSK	23.21	20.18
LTE Band12	3	23165	15	#0	QPSK	23.17	20.14
LTE Band12	3	23165	1	#0	16QAM	23.01	19.98
LTE Band12	3	23165	1	#Mid	16QAM	23.03	20.00
LTE Band12	3	23165	1	#Max	16QAM	23.09	20.06
LTE Band12	3	23165	8	#0	16QAM	22.18	19.15
LTE Band12	3	23165	8	#Mid	16QAM	22.19	19.16

LTE Band12	3	23165	8	#Max	16QAM	22.18	19.15
LTE Band12	3	23165	15	#0	16QAM	22.15	19.12
LTE Band12	5	23035	1	#0	QPSK	24.30	20.65
LTE Band12	5	23035	1	#Mid	QPSK	24.33	20.68
LTE Band12	5	23035	1	#Max	QPSK	24.14	20.49
LTE Band12	5	23035	12	#0	QPSK	23.34	19.69
LTE Band12	5	23035	12	#Mid	QPSK	23.39	19.74
LTE Band12	5	23035	12	#Max	QPSK	23.28	19.63
LTE Band12	5	23035	25	#0	QPSK	23.37	19.72
LTE Band12	5	23035	1	#0	16QAM	23.56	19.91
LTE Band12	5	23035	1	#Mid	16QAM	23.64	19.99
LTE Band12	5	23035	1	#Max	16QAM	23.40	19.75
LTE Band12	5	23035	12	#0	16QAM	22.33	18.68
LTE Band12	5	23035	12	#Mid	16QAM	22.32	18.67
LTE Band12	5	23035	12	#Max	16QAM	22.24	18.59
LTE Band12	5	23035	25	#0	16QAM	22.35	18.70
LTE Band12	5	23095	1	#0	QPSK	24.08	21.05
LTE Band12	5	23095	1	#Mid	QPSK	24.12	21.09
LTE Band12	5	23095	1	#Max	QPSK	24.11	21.08
LTE Band12	5	23095	12	#0	QPSK	23.11	20.08
LTE Band12	5	23095	12	#Mid	QPSK	23.12	20.09
LTE Band12	5	23095	12	#Max	QPSK	23.12	20.09
LTE Band12	5	23095	25	#0	QPSK	23.10	20.07
LTE Band12	5	23095	1	#0	16QAM	23.25	20.22
LTE Band12	5	23095	1	#Mid	16QAM	23.30	20.27
LTE Band12	5	23095	1	#Max	16QAM	23.27	20.24
LTE Band12	5	23095	12	#0	16QAM	22.02	18.99
LTE Band12	5	23095	12	#Mid	16QAM	22.00	18.97
LTE Band12	5	23095	12	#Max	16QAM	22.04	19.01
LTE Band12	5	23095	25	#0	16QAM	22.08	19.05
LTE Band12	5	23155	1	#0	QPSK	23.99	20.96
LTE Band12	5	23155	1	#Mid	QPSK	24.09	21.06
LTE Band12	5	23155	1	#Max	QPSK	24.05	21.02
LTE Band12	5	23155	12	#0	QPSK	23.14	20.11
LTE Band12	5	23155	12	#Mid	QPSK	23.14	20.11
LTE Band12	5	23155	12	#Max	QPSK	23.14	20.11
LTE Band12	5	23155	25	#0	QPSK	23.20	20.17
LTE Band12	5	23155	1	#0	16QAM	23.20	20.17
LTE Band12	5	23155	1	#Mid	16QAM	23.31	20.28
LTE Band12	5	23155	1	#Max	16QAM	23.36	20.33
LTE Band12	5	23155	12	#0	16QAM	22.15	19.12
LTE Band12	5	23155	12	#Mid	16QAM	22.12	19.09
LTE Band12	5	23155	12	#Max	16QAM	22.15	19.12

LTE Band12	5	23155	25	#0	16QAM	22.22	19.19
LTE Band12	10	23060	1	#0	QPSK	24.43	20.78
LTE Band12	10	23060	1	#Mid	QPSK	24.43	20.78
LTE Band12	10	23060	1	#Max	QPSK	24.28	20.63
LTE Band12	10	23060	25	#0	QPSK	23.33	19.68
LTE Band12	10	23060	25	#Mid	QPSK	23.34	19.69
LTE Band12	10	23060	25	#Max	QPSK	23.25	19.60
LTE Band12	10	23060	50	#0	QPSK	23.29	19.64
LTE Band12	10	23060	1	#0	16QAM	23.22	19.57
LTE Band12	10	23060	1	#Mid	16QAM	23.27	19.62
LTE Band12	10	23060	1	#Max	16QAM	23.10	19.45
LTE Band12	10	23060	25	#0	16QAM	22.30	18.65
LTE Band12	10	23060	25	#Mid	16QAM	22.31	18.66
LTE Band12	10	23060	25	#Max	16QAM	22.19	18.54
LTE Band12	10	23060	50	#0	16QAM	22.27	18.62
LTE Band12	10	23095	1	#0	QPSK	24.21	21.18
LTE Band12	10	23095	1	#Mid	QPSK	24.25	21.22
LTE Band12	10	23095	1	#Max	QPSK	24.14	21.11
LTE Band12	10	23095	25	#0	QPSK	23.15	20.12
LTE Band12	10	23095	25	#Mid	QPSK	23.18	20.15
LTE Band12	10	23095	25	#Max	QPSK	23.15	20.12
LTE Band12	10	23095	50	#0	QPSK	23.15	20.12
LTE Band12	10	23095	1	#0	16QAM	23.49	20.46
LTE Band12	10	23095	1	#Mid	16QAM	23.52	20.49
LTE Band12	10	23095	1	#Max	16QAM	23.40	20.37
LTE Band12	10	23095	25	#0	16QAM	22.19	19.16
LTE Band12	10	23095	25	#Mid	16QAM	22.18	19.15
LTE Band12	10	23095	25	#Max	16QAM	22.23	19.20
LTE Band12	10	23095	50	#0	16QAM	22.15	19.12
LTE Band12	10	23130	1	#0	QPSK	24.07	21.04
LTE Band12	10	23130	1	#Mid	QPSK	24.25	21.22
LTE Band12	10	23130	1	#Max	QPSK	24.23	21.20
LTE Band12	10	23130	25	#0	QPSK	23.21	20.18
LTE Band12	10	23130	25	#Mid	QPSK	23.19	20.16
LTE Band12	10	23130	25	#Max	QPSK	23.20	20.17
LTE Band12	10	23130	50	#0	QPSK	23.21	20.18
LTE Band12	10	23130	1	#0	16QAM	23.28	20.25
LTE Band12	10	23130	1	#Mid	16QAM	23.46	20.43
LTE Band12	10	23130	1	#Max	16QAM	23.36	20.33
LTE Band12	10	23130	25	#0	16QAM	22.24	19.21
LTE Band12	10	23130	25	#Mid	16QAM	22.24	19.21
LTE Band12	10	23130	25	#Max	16QAM	22.25	19.22
LTE Band12	10	23130	50	#0	16QAM	22.23	19.20

LTE Band12	1.4	23017	1	#0	64QAM	23.02	19.37
LTE Band12	1.4	23017	1	#Mid	64QAM	23.24	19.59
LTE Band12	1.4	23017	1	#Max	64QAM	23.08	19.43
LTE Band12	1.4	23017	3	#0	64QAM	23.19	19.54
LTE Band12	1.4	23017	3	#Mid	64QAM	23.22	19.57
LTE Band12	1.4	23017	3	#Max	64QAM	23.24	19.59
LTE Band12	1.4	23017	6	#0	64QAM	22.10	18.45
LTE Band12	1.4	23095	1	#0	64QAM	22.96	19.93
LTE Band12	1.4	23095	1	#Mid	64QAM	23.20	20.17
LTE Band12	1.4	23095	1	#Max	64QAM	22.98	19.95
LTE Band12	1.4	23095	3	#0	64QAM	22.82	19.79
LTE Band12	1.4	23095	3	#Mid	64QAM	22.79	19.76
LTE Band12	1.4	23095	3	#Max	64QAM	22.82	19.79
LTE Band12	1.4	23095	6	#0	64QAM	21.78	18.75
LTE Band12	1.4	23173	1	#0	64QAM	22.69	19.43
LTE Band12	1.4	23173	1	#Mid	64QAM	22.87	19.61
LTE Band12	1.4	23173	1	#Max	64QAM	22.79	19.53
LTE Band12	1.4	23173	3	#0	64QAM	22.82	19.56
LTE Band12	1.4	23173	3	#Mid	64QAM	22.82	19.56
LTE Band12	1.4	23173	3	#Max	64QAM	22.82	19.56
LTE Band12	1.4	23173	6	#0	64QAM	21.87	18.61
LTE Band12	3	23025	1	#0	64QAM	23.27	19.62
LTE Band12	3	23025	1	#Mid	64QAM	23.26	19.61
LTE Band12	3	23025	1	#Max	64QAM	23.25	19.60
LTE Band12	3	23025	8	#0	64QAM	22.07	18.42
LTE Band12	3	23025	8	#Mid	64QAM	22.09	18.44
LTE Band12	3	23025	8	#Max	64QAM	22.08	18.43
LTE Band12	3	23025	15	#0	64QAM	21.96	18.31
LTE Band12	3	23095	1	#0	64QAM	22.76	19.73
LTE Band12	3	23095	1	#Mid	64QAM	22.77	19.74
LTE Band12	3	23095	1	#Max	64QAM	22.78	19.75
LTE Band12	3	23095	8	#0	64QAM	21.83	18.80
LTE Band12	3	23095	8	#Mid	64QAM	21.80	18.77
LTE Band12	3	23095	8	#Max	64QAM	21.86	18.83
LTE Band12	3	23095	15	#0	64QAM	21.82	18.79
LTE Band12	3	23165	1	#0	64QAM	23.11	20.08
LTE Band12	3	23165	1	#Mid	64QAM	23.07	20.04
LTE Band12	3	23165	1	#Max	64QAM	23.13	20.10
LTE Band12	3	23165	8	#0	64QAM	21.90	18.87
LTE Band12	3	23165	8	#Mid	64QAM	21.85	18.82
LTE Band12	3	23165	8	#Max	64QAM	21.91	18.88
LTE Band12	3	23165	15	#0	64QAM	21.85	18.82
LTE Band12	5	23035	1	#0	64QAM	23.22	19.57

LTE Band12	5	23035	1	#Mid	64QAM	23.24	19.59
LTE Band12	5	23035	1	#Max	64QAM	23.05	19.40
LTE Band12	5	23035	12	#0	64QAM	22.04	18.39
LTE Band12	5	23035	12	#Mid	64QAM	22.04	18.39
LTE Band12	5	23035	12	#Max	64QAM	21.94	18.29
LTE Band12	5	23035	25	#0	64QAM	22.04	18.39
LTE Band12	5	23095	1	#0	64QAM	23.01	19.98
LTE Band12	5	23095	1	#Mid	64QAM	23.04	20.01
LTE Band12	5	23095	1	#Max	64QAM	23.04	20.01
LTE Band12	5	23095	12	#0	64QAM	21.84	18.81
LTE Band12	5	23095	12	#Mid	64QAM	21.83	18.80
LTE Band12	5	23095	12	#Max	64QAM	21.84	18.81
LTE Band12	5	23095	25	#0	64QAM	21.82	18.79
LTE Band12	5	23155	1	#0	64QAM	22.99	19.96
LTE Band12	5	23155	1	#Mid	64QAM	23.09	20.06
LTE Band12	5	23155	1	#Max	64QAM	23.14	20.11
LTE Band12	5	23155	12	#0	64QAM	21.78	18.75
LTE Band12	5	23155	12	#Mid	64QAM	21.79	18.76
LTE Band12	5	23155	12	#Max	64QAM	21.82	18.79
LTE Band12	5	23155	25	#0	64QAM	21.96	18.93
LTE Band12	10	23060	1	#0	64QAM	23.00	19.35
LTE Band12	10	23060	1	#Mid	64QAM	22.96	19.31
LTE Band12	10	23060	1	#Max	64QAM	22.76	19.11
LTE Band12	10	23060	25	#0	64QAM	22.04	18.39
LTE Band12	10	23060	25	#Mid	64QAM	22.02	18.37
LTE Band12	10	23060	25	#Max	64QAM	21.92	18.27
LTE Band12	10	23060	50	#0	64QAM	21.99	18.34
LTE Band12	10	23095	1	#0	64QAM	23.17	20.14
LTE Band12	10	23095	1	#Mid	64QAM	23.22	20.19
LTE Band12	10	23095	1	#Max	64QAM	23.12	20.09
LTE Band12	10	23095	25	#0	64QAM	21.91	18.88
LTE Band12	10	23095	25	#Mid	64QAM	21.89	18.86
LTE Band12	10	23095	25	#Max	64QAM	21.93	18.90
LTE Band12	10	23095	50	#0	64QAM	21.86	18.83
LTE Band12	10	23130	1	#0	64QAM	22.98	19.95
LTE Band12	10	23130	1	#Mid	64QAM	23.15	20.12
LTE Band12	10	23130	1	#Max	64QAM	23.09	20.06
LTE Band12	10	23130	25	#0	64QAM	21.93	18.90
LTE Band12	10	23130	25	#Mid	64QAM	21.90	18.87
LTE Band12	10	23130	25	#Max	64QAM	21.96	18.93
LTE Band12	10	23130	50	#0	64QAM	21.95	18.92

BAND	Bandwidth	Modulation	Channel	RB Configuration	Maximum Output Power(dBm)	EIRP(dBm)
LTE Band30	5M	QPSK	27685	1RB#0	23.69	23.30
LTE Band30	5M	QPSK	27685	1RB#13	23.66	23.27
LTE Band30	5M	QPSK	27685	1RB#24	23.45	23.06
LTE Band30	5M	QPSK	27685	12RB#0	22.63	22.24
LTE Band30	5M	QPSK	27685	12RB#6	22.55	22.16
LTE Band30	5M	QPSK	27685	12RB#13	22.51	22.12
LTE Band30	5M	QPSK	27685	25RB#0	22.61	22.22
LTE Band30	5M	QPSK	27710	1RB#0	23.62	23.23
LTE Band30	5M	QPSK	27710	1RB#13	23.66	23.27
LTE Band30	5M	QPSK	27710	1RB#24	23.51	23.12
LTE Band30	5M	QPSK	27710	12RB#0	22.54	22.15
LTE Band30	5M	QPSK	27710	12RB#6	22.5	22.11
LTE Band30	5M	QPSK	27710	12RB#13	22.49	22.10
LTE Band30	5M	QPSK	27710	25RB#0	22.49	22.10
LTE Band30	5M	QPSK	27735	1RB#0	23.45	23.06
LTE Band30	5M	QPSK	27735	1RB#13	23.57	23.18
LTE Band30	5M	QPSK	27735	1RB#24	23.38	22.99
LTE Band30	5M	QPSK	27735	12RB#0	22.46	22.07
LTE Band30	5M	QPSK	27735	12RB#6	22.42	22.03
LTE Band30	5M	QPSK	27735	12RB#13	22.43	22.04
LTE Band30	5M	QPSK	27735	25RB#0	22.48	22.09
LTE Band30	5M	16QAM	27685	1RB#0	22.75	22.36
LTE Band30	5M	16QAM	27685	1RB#13	22.82	22.43
LTE Band30	5M	16QAM	27685	1RB#24	22.59	22.20
LTE Band30	5M	16QAM	27685	12RB#0	21.63	21.24
LTE Band30	5M	16QAM	27685	12RB#6	21.58	21.19
LTE Band30	5M	16QAM	27685	12RB#13	21.53	21.14
LTE Band30	5M	16QAM	27685	25RB#0	21.57	21.18
LTE Band30	5M	16QAM	27710	1RB#0	22.57	22.18
LTE Band30	5M	16QAM	27710	1RB#13	22.61	22.22
LTE Band30	5M	16QAM	27710	1RB#24	22.42	22.03
LTE Band30	5M	16QAM	27710	12RB#0	21.43	21.04
LTE Band30	5M	16QAM	27710	12RB#6	21.41	21.02
LTE Band30	5M	16QAM	27710	12RB#13	21.37	20.98
LTE Band30	5M	16QAM	27710	25RB#0	21.48	21.09
LTE Band30	5M	16QAM	27735	1RB#0	22.89	22.50
LTE Band30	5M	16QAM	27735	1RB#13	22.93	22.54
LTE Band30	5M	16QAM	27735	1RB#24	22.77	22.38
LTE Band30	5M	16QAM	27735	12RB#0	21.46	21.07
LTE Band30	5M	16QAM	27735	12RB#6	21.42	21.03
LTE Band30	5M	16QAM	27735	12RB#13	21.39	21.00

LTE Band30	5M	16QAM	27735	25RB#0	21.45	21.06
LTE Band30	5M	64QAM	27685	1RB#0	22.5	22.11
LTE Band30	5M	64QAM	27685	1RB#13	22.47	22.08
LTE Band30	5M	64QAM	27685	1RB#24	22.24	21.85
LTE Band30	5M	64QAM	27685	12RB#0	21.34	20.95
LTE Band30	5M	64QAM	27685	12RB#6	21.26	20.87
LTE Band30	5M	64QAM	27685	12RB#13	21.22	20.83
LTE Band30	5M	64QAM	27685	25RB#0	21.29	20.90
LTE Band30	5M	64QAM	27710	1RB#0	22.23	21.84
LTE Band30	5M	64QAM	27710	1RB#13	22.29	21.90
LTE Band30	5M	64QAM	27710	1RB#24	22.13	21.74
LTE Band30	5M	64QAM	27710	12RB#0	21.08	20.69
LTE Band30	5M	64QAM	27710	12RB#6	21.06	20.67
LTE Band30	5M	64QAM	27710	12RB#13	21.04	20.65
LTE Band30	5M	64QAM	27710	25RB#0	21.16	20.77
LTE Band30	5M	64QAM	27735	1RB#0	22.57	22.18
LTE Band30	5M	64QAM	27735	1RB#13	22.62	22.23
LTE Band30	5M	64QAM	27735	1RB#24	22.47	22.08
LTE Band30	5M	64QAM	27735	12RB#0	21.07	20.68
LTE Band30	5M	64QAM	27735	12RB#6	21.06	20.67
LTE Band30	5M	64QAM	27735	12RB#13	21.09	20.70
LTE Band30	5M	64QAM	27735	25RB#0	21.08	20.69
LTE Band30	10M	QPSK	27710	1RB#0	23.81	23.42
LTE Band30	10M	QPSK	27710	1RB#25	23.63	23.24
LTE Band30	10M	QPSK	27710	1RB#49	23.45	23.06
LTE Band30	10M	QPSK	27710	25RB#0	22.62	22.23
LTE Band30	10M	QPSK	27710	25RB#13	22.56	22.17
LTE Band30	10M	QPSK	27710	25RB#25	22.5	22.11
LTE Band30	10M	QPSK	27710	50RB#0	22.55	22.16
LTE Band30	10M	16QAM	27710	1RB#0	23.03	22.64
LTE Band30	10M	16QAM	27710	1RB#25	22.95	22.56
LTE Band30	10M	16QAM	27710	1RB#49	22.72	22.33
LTE Band30	10M	16QAM	27710	25RB#0	21.58	21.19
LTE Band30	10M	16QAM	27710	25RB#13	21.49	21.10
LTE Band30	10M	16QAM	27710	25RB#25	21.44	21.05
LTE Band30	10M	16QAM	27710	50RB#0	21.51	21.12
LTE Band30	10M	64QAM	27710	1RB#0	22.79	22.40
LTE Band30	10M	64QAM	27710	1RB#25	22.59	22.20
LTE Band30	10M	64QAM	27710	1RB#49	22.44	22.05
LTE Band30	10M	64QAM	27710	25RB#0	21.3	20.91
LTE Band30	10M	64QAM	27710	25RB#13	21.18	20.79
LTE Band30	10M	64QAM	27710	25RB#25	21.15	20.76
LTE Band30	10M	64QAM	27710	50RB#0	21.21	20.82

LTE Band 30 Main Antenna				Maximum Output Power (dBm/MHz)			EIRP Power (dBm/MHz)			EIRP Power (mW/MHz)			Limit (mW /MHz)
BW	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			
				38725/ 2307.5	38750/ 2310.0	38775/ 2312.5	38725/ 2307.5	38750/ 2310.0	38775/ 2312.5	38725/ 2307.5	38750/ 2310.0	38775/ 2312.5	
5MHz	QPSK	25	0	16.39	16.30	16.33	16.00	15.91	15.94	39.81	38.96	39.28	250
	16QAM	25	0	15.54	15.10	15.40	15.15	14.71	15.01	32.73	29.55	31.71	250
	64QAM	25	0	14.72	14.56	14.87	14.33	14.17	14.48	27.10	26.12	28.05	250
BW	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			Limit (mW /MHz)
				38750/2310.0			38750/2310.0			38750/2310.0			
10MHz	QPSK	50	0	16.39			16.00			39.81			250
	16QAM	50	0	12.47			12.08			16.15			250
	64QAM	50	0	11.69			11.30			13.50			250

LTE Band 30 Second Antenna				Maximum Output Power (dBm/5MHz)			EIRP Power (dBm/5MHz)			EIRP Power (mW/5MHz)			Limit (mW /5MHz)
BW	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			
				38725/ 2307.5	38750/ 2310.0	38775/ 2312.5	38725/ 2307.5	38750/ 2310.0	38775/ 2312.5	38725/ 2307.5	38750/ 2310.0	38775/ 2312.5	
5MHz	QPSK	25	0	21.99	21.92	21.93	21.60	21.53	21.54	144.58	142.17	142.66	250
	16QAM	25	0	21.03	21.03	21.01	20.64	20.64	20.62	115.98	115.96	115.43	250
	64QAM	25	0	20.67	20.54	20.47	20.28	20.15	20.08	106.61	103.51	101.91	250
BW	Modulation	RB size	RB offset	Channel/Frequency (MHz)			Channel/Frequency (MHz)			Channel/Frequency (MHz)			Limit (mW /5MHz)
				38750/2310.0			38750/2310.0			38750/2310.0			
10MHz	QPSK	50	0	19.75			19.36			86.22			250
	16QAM	50	0	18.79			18.40			69.21			250
	64QAM	50	0	18.55			18.16			65.43			250

EIRP (dBm/MHz)

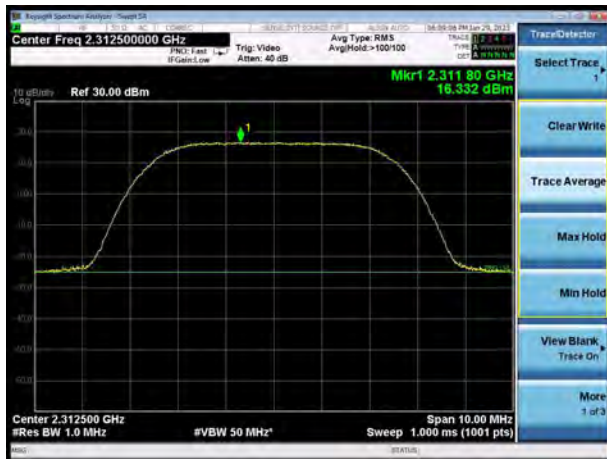
LTE Band 30 QPSK 5MHz CH-Low



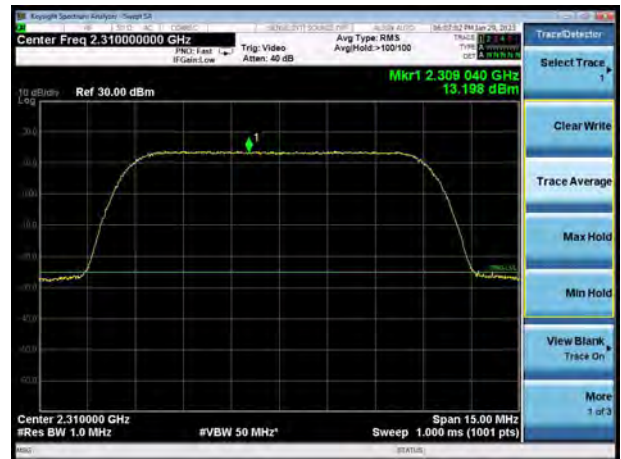
LTE Band 30 QPSK 5MHz CH-Middle



LTE Band 30 QPSK 5MHz CH-High



LTE Band 30 QPSK 10MHz



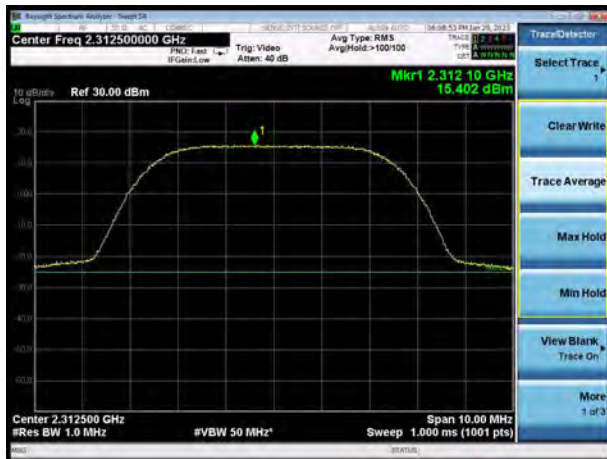
LTE Band 30 16QAM 5MHz CH-Low



LTE Band 30 16QAM 5MHz CH-Middle



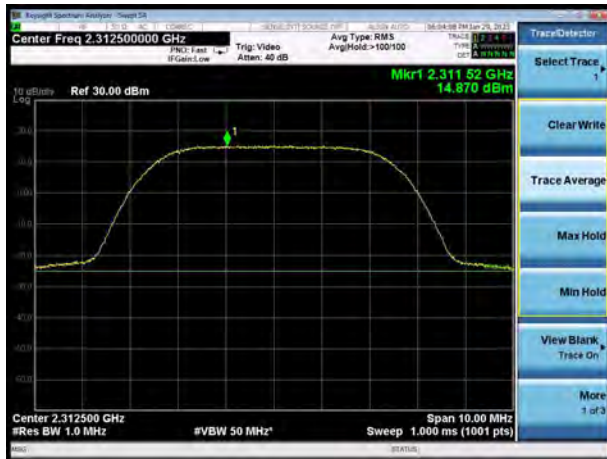
LTE Band 30 16QAM 5MHz CH-High



LTE Band 30 16QAM 10MHz



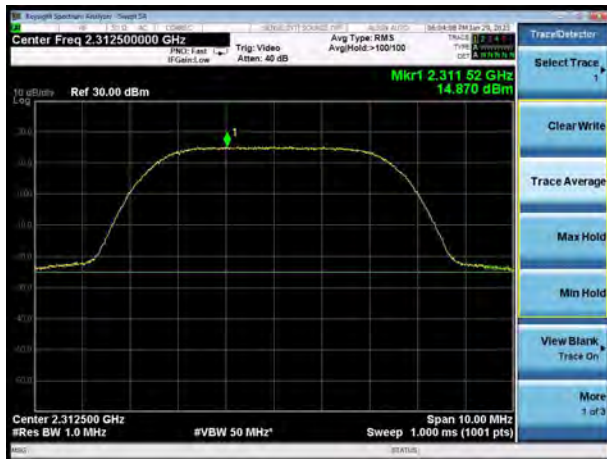
LTE Band 30 64QAM 5MHz CH-Low



LTE Band 30 64QAM 5MHz CH-Middle



LTE Band 30 64QAM 5MHz CH-High



LTE Band 30 64QAM 10MHz



EIRP (dBm/5MHz)

LTE Band 30 QPSK 5MHz CH-Low



LTE Band 30 QPSK 5MHz CH-Middle



LTE Band 30 QPSK 5MHz CH-High



LTE Band 30 QPSK 10MHz



LTE Band 30 16QAM 5MHz CH-Low



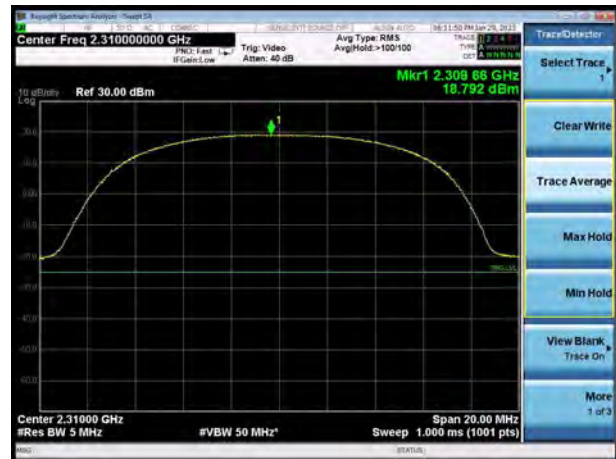
LTE Band 30 16QAM 5MHz CH-Middle



LTE Band 30 16QAM 5MHz CH-High



LTE Band 30 16QAM 10MHz



LTE Band 30 64QAM 5MHz CH-Low



LTE Band 30 64QAM 5MHz CH-Middle



LTE Band 30 64QAM 5MHz CH-High



LTE Band 30 64QAM 10MHz



6.2 Occupied Bandwidth

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
WCDMA Band IV (RMC)	1312	1712.4	4.1995	4.712
	1413	1732.6	4.1690	4.702
	1513	1752.6	4.1750	4.709

LTE Band 4							
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)	
100%	QPSK	1.4	19957	1710.7	1.097	1.280	
			20175	1732.5	1.097	1.277	
			20393	1754.3	1.092	1.283	
		3	19965	1711.5	2.687	2.898	
			20175	1732.5	2.689	2.919	
			20385	1753.5	2.693	2.911	
		5	19975	1712.5	4.505	4.967	
			20175	1732.5	4.502	4.853	
			20375	1752.5	4.511	4.923	
		10	20000	1715	8.985	9.694	
			20175	1732.5	8.979	9.664	
			20350	1750	8.968	9.660	
		15	20025	1717.5	13.474	14.420	
			20175	1732.5	13.444	14.470	
			20325	1747.5	13.478	14.670	
		20	20050	1720	17.952	19.270	
			20175	1732.5	17.922	19.210	
			20300	1745	17.950	19.450	
		16QAM	1.4	19957	1710.7	1.099	1.288
				20175	1732.5	1.097	1.311
				20393	1754.3	1.090	1.269
			3	19965	1711.5	2.693	2.911
				20175	1732.5	2.683	2.928
				20385	1753.5	2.693	2.913
5	19975		1712.5	4.513	4.889		
	20175		1732.5	4.510	4.889		
	20375		1752.5	4.514	4.905		
10	20000		1715	8.990	9.675		

			20175	1732.5	8.988	9.654
			20350	1750	8.974	9.575
		15	20025	1717.5	13.488	14.560
			20175	1732.5	13.468	14.500
			20325	1747.5	13.464	14.360
		20	20050	1720	17.903	19.260
			20175	1732.5	17.930	19.240
			20300	1745	17.976	19.130
		64QAM	1.4	19957	1710.7	1.100
	20175			1732.5	1.098	1.307
	20393			1754.3	1.091	1.264
	3		19965	1711.5	2.689	2.922
			20175	1732.5	2.685	2.912
			20385	1753.5	2.698	2.910
	5		19975	1712.5	4.516	4.936
			20175	1732.5	4.513	4.903
			20375	1752.5	4.500	4.899
	10		20000	1715	9.016	9.640
			20175	1732.5	8.972	9.643
			20350	1750	9.001	9.647
	15		20025	1717.5	13.472	14.620
			20175	1732.5	13.455	14.600
			20325	1747.5	13.433	14.400
	20		20050	1720	17.929	19.320
			20175	1732.5	17.966	19.280
			20300	1745	17.934	19.340

LTE Band 7						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	20775	2502.5	4.509	4.888
			21100	2535	4.521	4.895
			21425	2567.5	4.514	4.891
		10	20800	2505	8.960	9.692
			21100	2535	8.988	9.737
			21400	2565	8.989	9.718
		15	20825	2507.5	13.463	14.481
			21100	2535	13.491	14.614
			21375	2562.5	13.449	14.520
		20	20850	2510	17.948	19.279

			21100	2535	17.961	19.233
			21350	2560	17.948	19.313
	16QAM	5	20775	2502.5	4.510	4.952
			21100	2535	4.501	4.898
			21425	2567.5	4.513	4.940
		10	20800	2505	9.010	9.699
			21100	2535	8.979	9.705
			21400	2565	8.993	9.671
		15	20825	2507.5	13.454	14.500
			21100	2535	13.493	14.680
			21375	2562.5	13.488	14.540
		20	20850	2510	17.912	19.340
			21100	2535	17.949	19.300
			21350	2560	17.965	19.360
	64QAM	5	20775	2502.5	4.499	4.908
			21100	2535	4.503	4.884
			21425	2567.5	4.518	4.896
		10	20800	2505	8.988	9.722
			21100	2535	8.977	9.649
			21400	2565	8.987	9.698
		15	20825	2507.5	13.503	14.360
			21100	2535	13.504	14.360
			21375	2562.5	13.468	14.450
		20	20850	2510	17.956	19.130
21100			2535	17.947	19.180	
21350			2560	17.930	19.250	

LTE Band 12						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	23017	699.7	1.096	1.278
			23095	707.5	1.090	1.281
			23173	715.3	1.090	1.304
		3	23025	700.5	2.687	2.914
			23095	707.5	2.684	2.924
			23165	714.5	2.685	2.903
		5	23035	701.5	4.536	5.160
			23095	707.5	4.521	5.085
			23155	713.5	4.522	5.021
		10	23060	704	9.018	9.869

			23095	707.5	9.016	9.918	
			23130	711	8.988	10.030	
	16QAM	1.4		23017	699.7	1.097	1.284
				23095	707.5	1.096	1.287
				23173	715.3	1.095	1.277
		3		23025	700.5	2.691	2.903
				23095	707.5	2.687	2.910
				23165	714.5	2.690	2.930
		5		23035	701.5	4.511	5.041
				23095	707.5	4.511	5.094
				23155	713.5	4.517	5.174
		10		23060	704	8.992	9.973
				23095	707.5	8.976	9.987
				23130	711	8.979	9.860
	64QAM	1.4		23017	699.7	1.097	1.276
				23095	707.5	1.101	1.293
				23173	715.3	1.091	1.273
		3		23025	700.5	2.690	2.924
				23095	707.5	2.682	2.941
				23165	714.5	2.683	2.899
		5		23035	701.5	4.538	5.134
				23095	707.5	4.517	5.138
				23155	713.5	4.518	5.111
		10		23060	704	8.979	10.110
				23095	707.5	8.998	10.050
				23130	711	9.016	9.862

LTE Band 30						
RB	Modulation	Bandwidth	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth (MHz)
100%	QPSK	5	38725	2307.5	4.5282	5.203
			38750	2310	4.5235	4.99
			38775	2312.5	4.5071	4.899
		10	38750	2310	9.0104	10.63
	16QAM	5	38725	2307.5	4.5014	5.296
			38750	2310	4.5061	4.977
			38775	2312.5	4.5184	5.653
		10	38750	2310	9.0014	9.831
	64QAM	5	38725	2307.5	4.5071	4.94
			38750	2310	4.5005	4.885
			38775	2312.5	4.5342	5.295
		10	38750	2310	8.997	10.13

WCDMA Band IV CH-Low



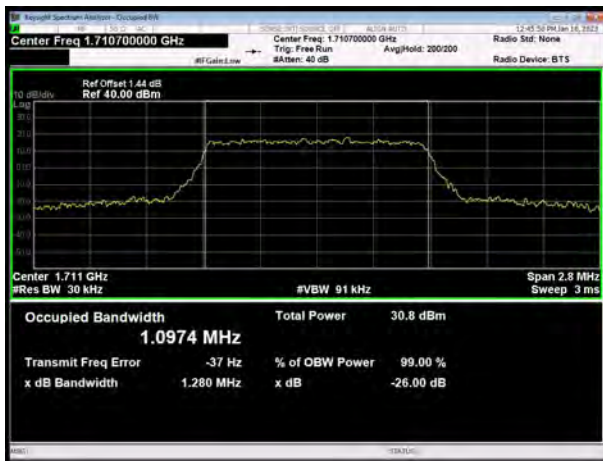
WCDMA Band IV CH Middle



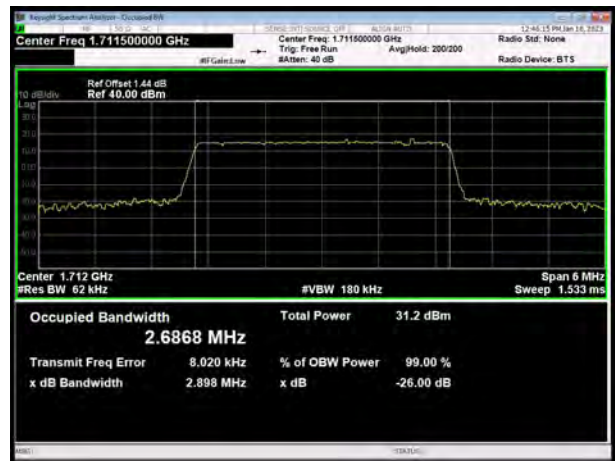
WCDMA Band IV CH High



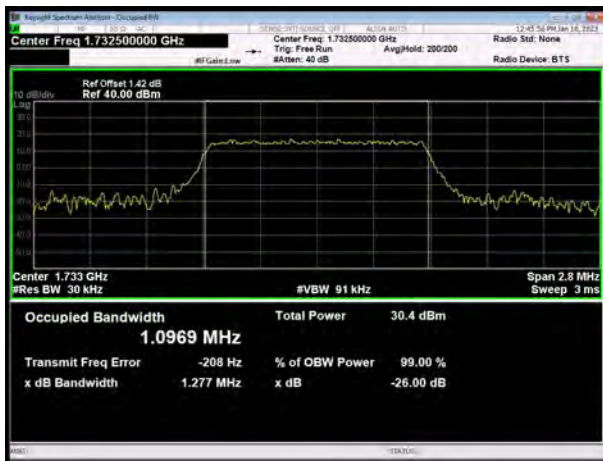
LTE Band 4 QPSK 1.4MHz CH-Low



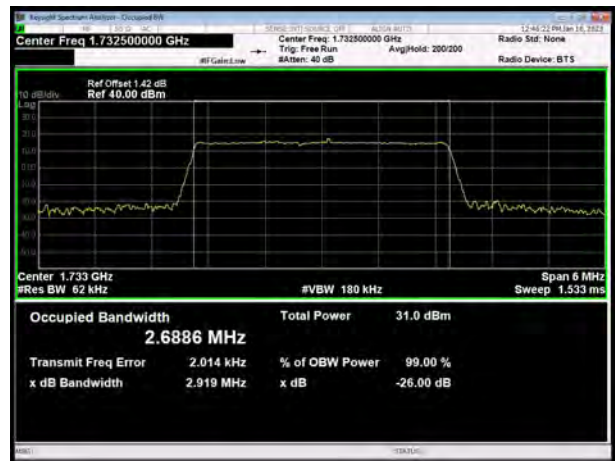
LTE Band 4 QPSK 3MHz CH-Low



LTE Band 4 QPSK 1.4MHz CH-Middle



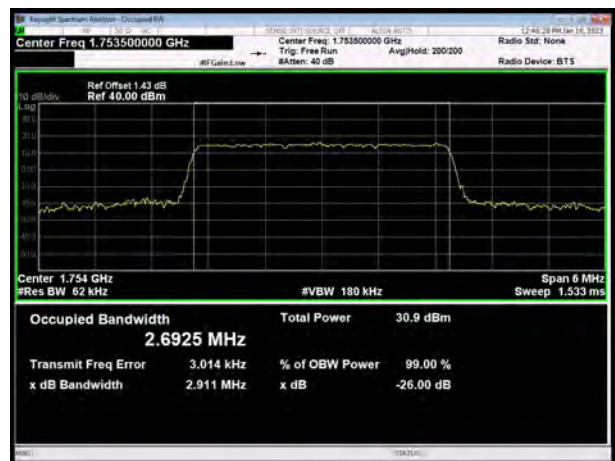
LTE Band 4 QPSK 3MHz CH-Middle



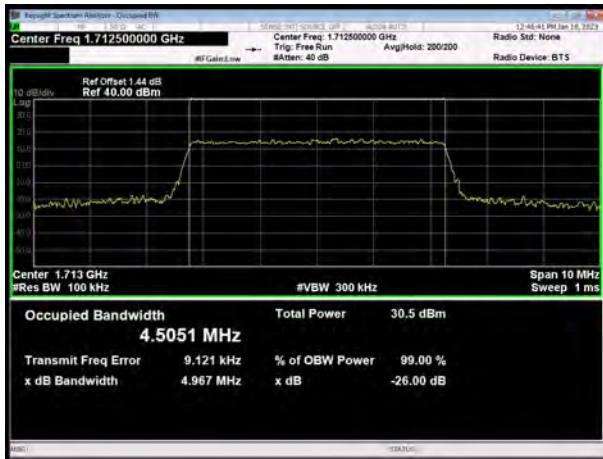
LTE Band 4 QPSK 1.4MHz CH-High



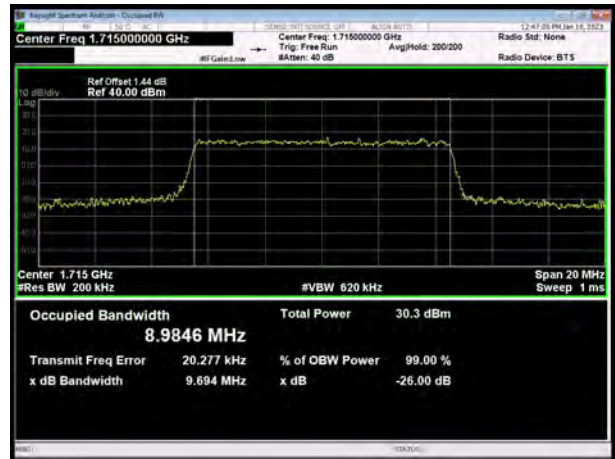
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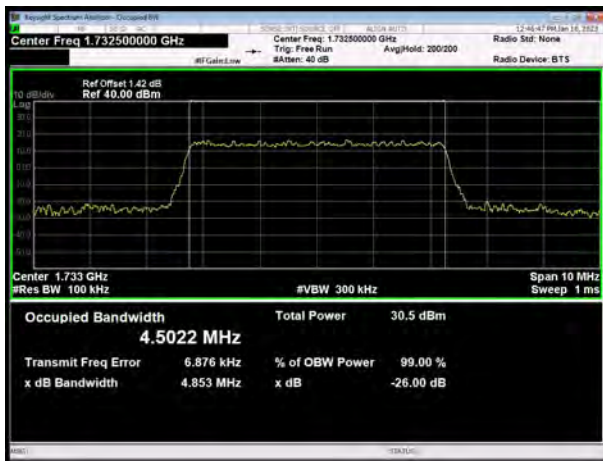
LTE Band 4 QPSK 5MHz CH-Low



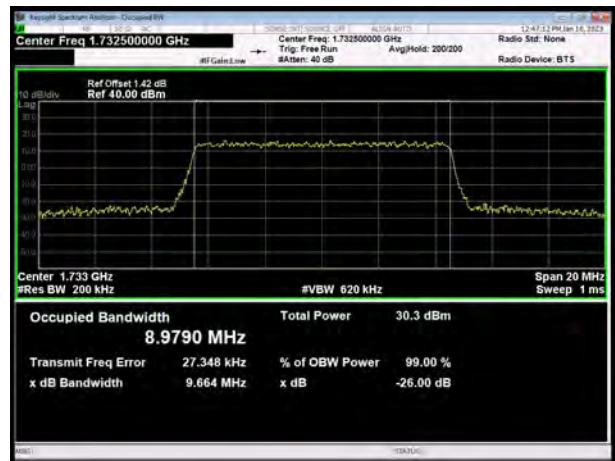
LTE Band 4 QPSK 10MHz CH-Low



LTE Band 4 QPSK 5MHz CH-Middle



LTE Band 4 QPSK 10MHz CH-Middle



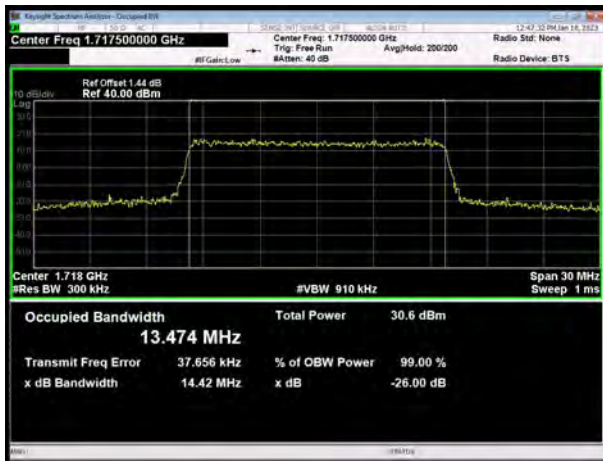
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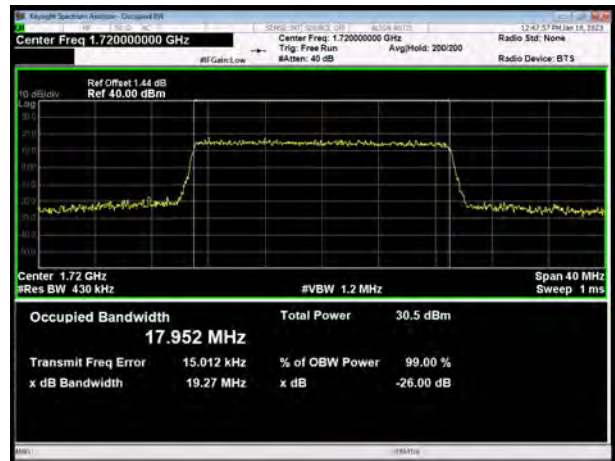
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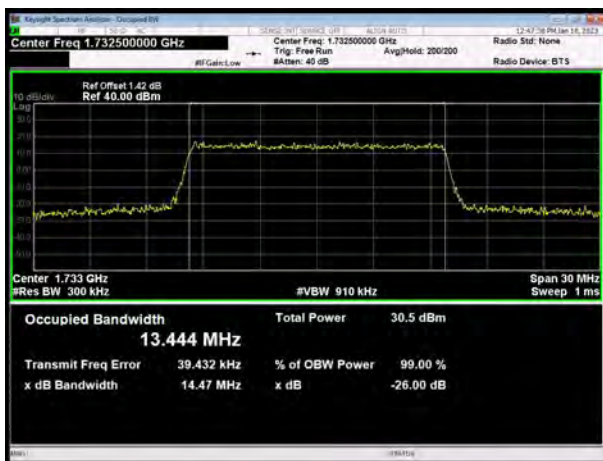
LTE Band 4 QPSK 15MHz CH-Low



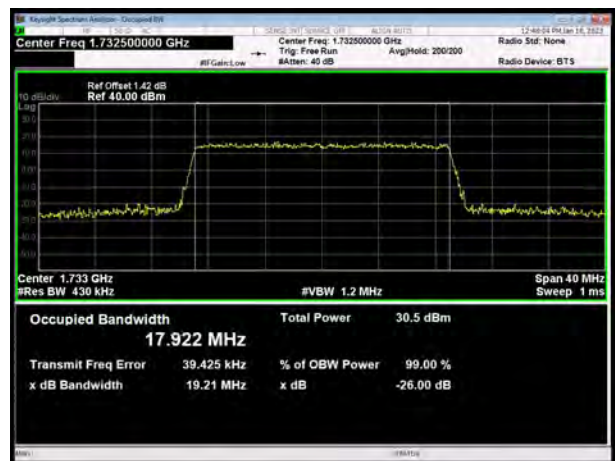
LTE Band 4 QPSK 20MHz CH-Low



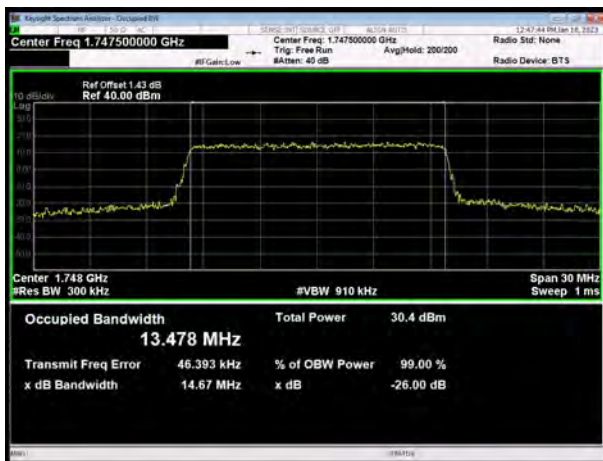
LTE Band 4 QPSK 15MHz CH-Middle



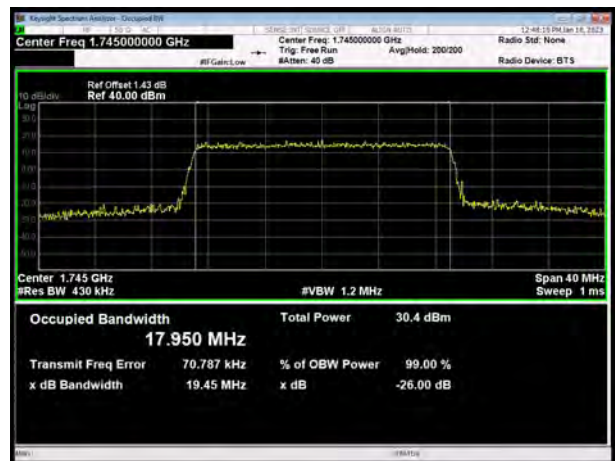
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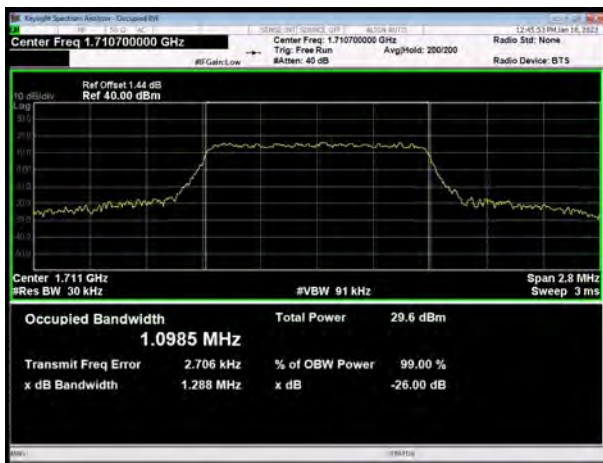
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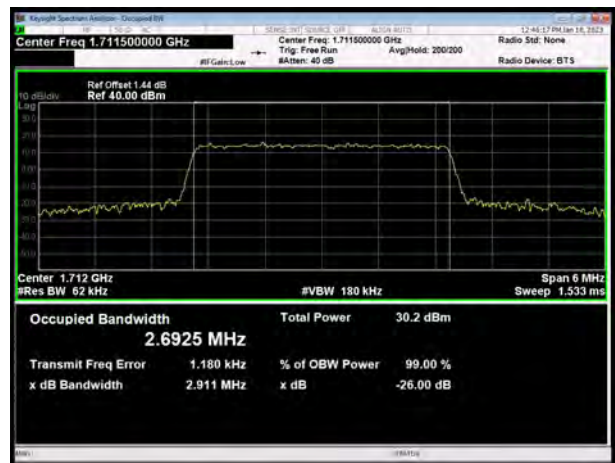
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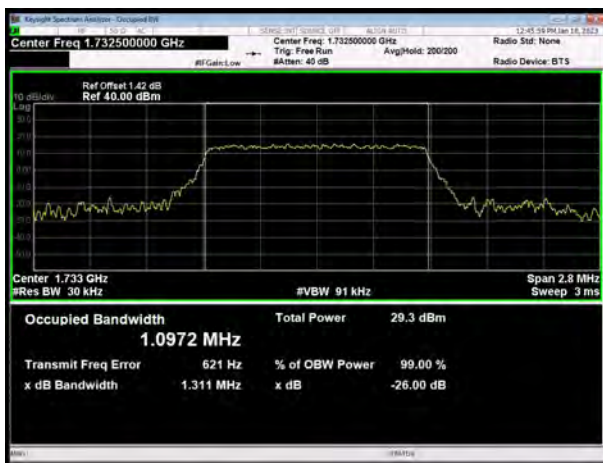
LTE Band 4 16QAM 1.4MHz CH-Low



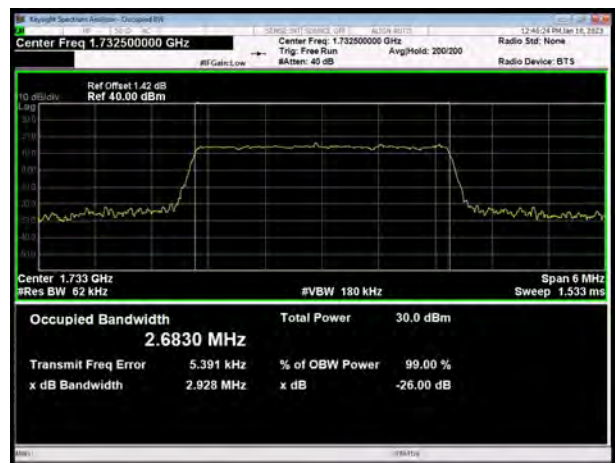
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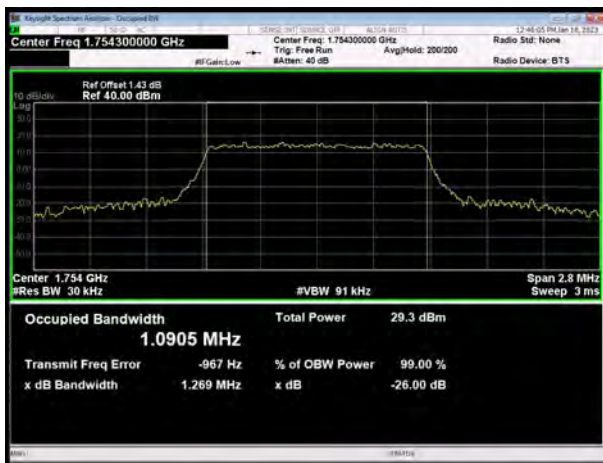
LTE Band 4 16QAM 1.4MHz CH-Middle



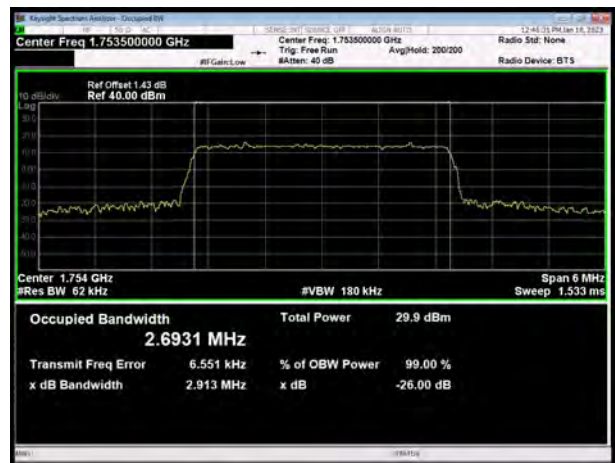
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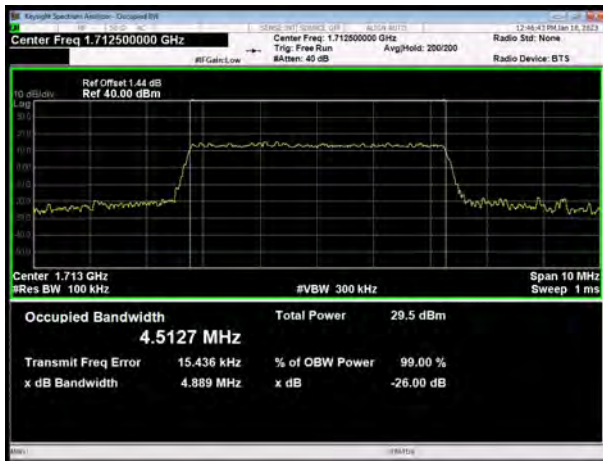
LTE Band 4 16QAM 1.4MHz CH-High



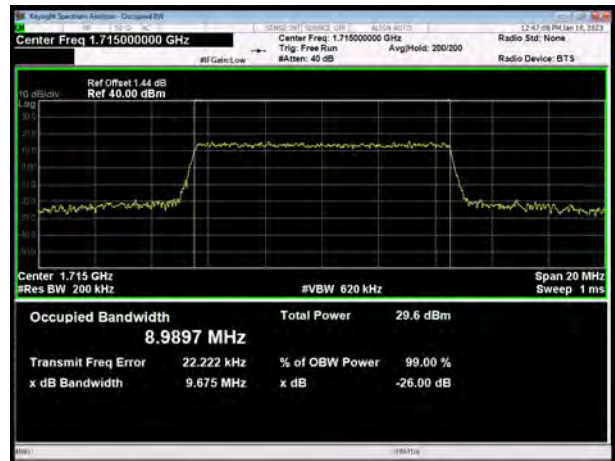
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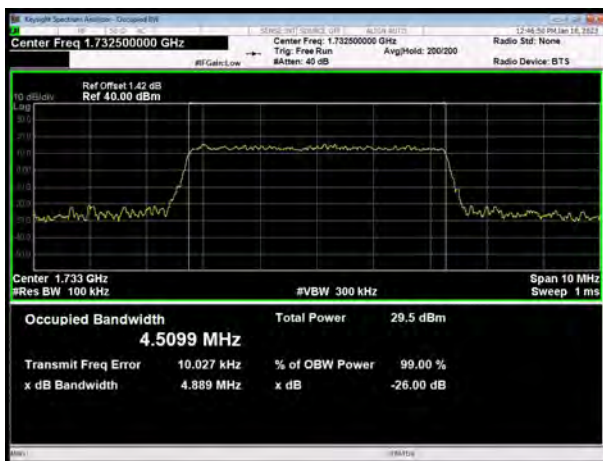
LTE Band 4 16QAM 5MHz CH-Low



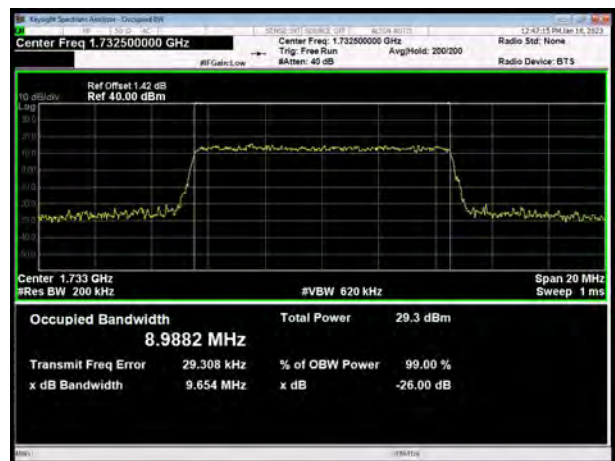
LTE Band 4 16QAM 10MHz CH-Low



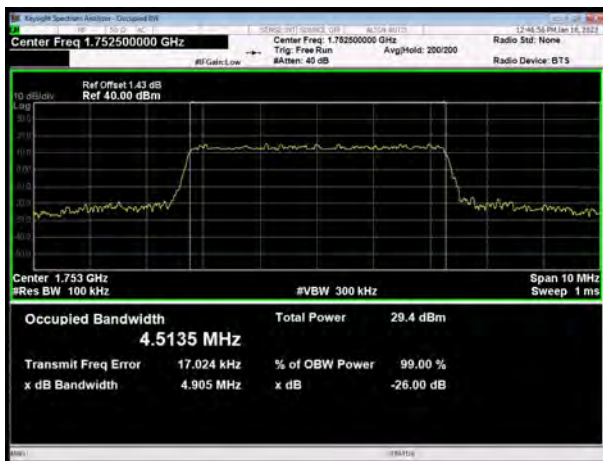
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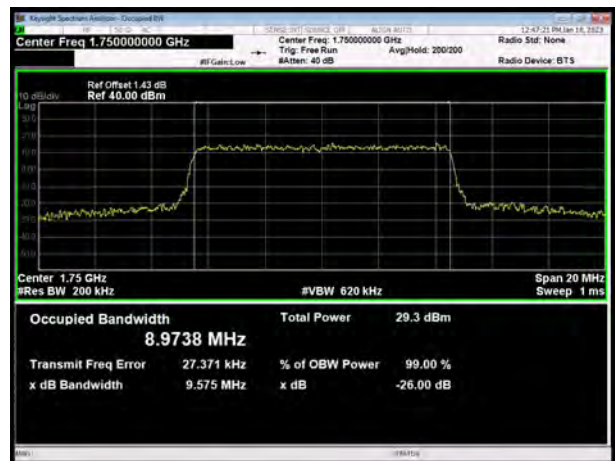
LTE Band 4 16QAM 10MHz CH-Middle



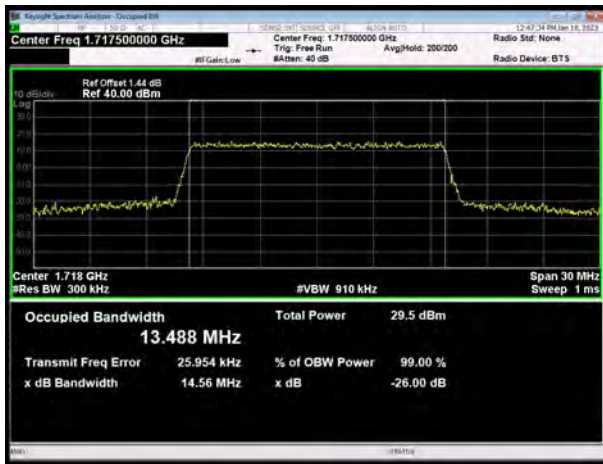
LTE Band 4 16QAM 5MHz CH-High



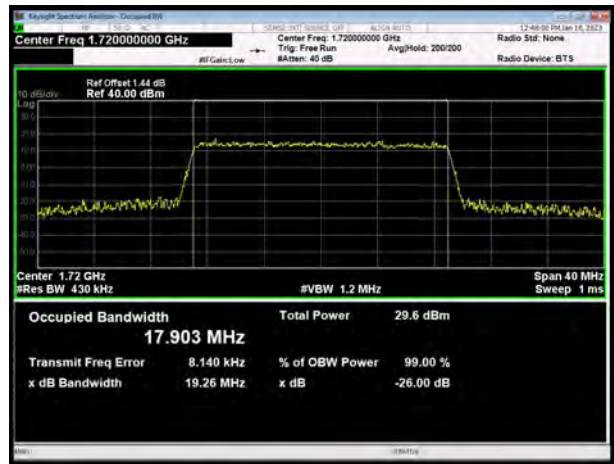
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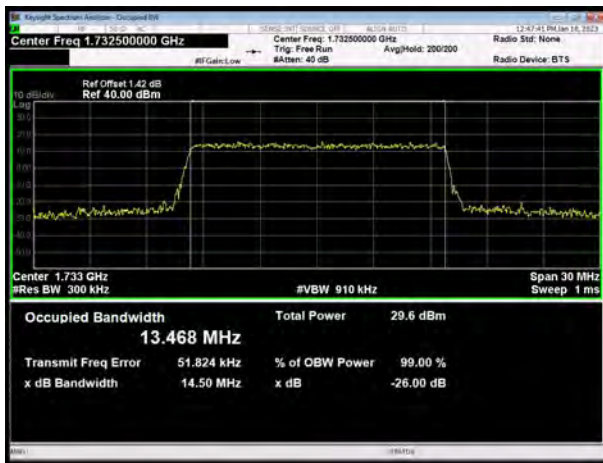
LTE Band 4 16QAM 15MHz CH-Low



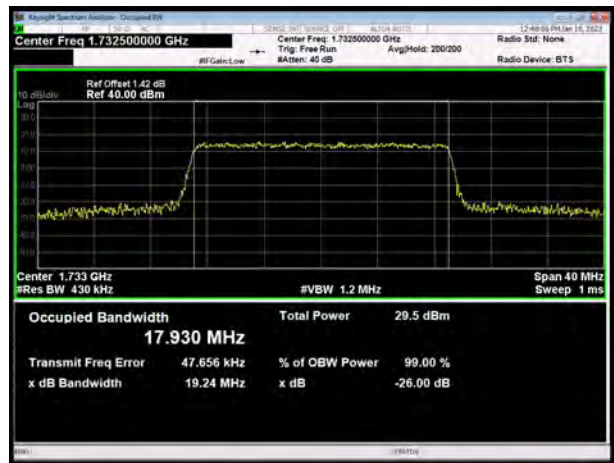
LTE Band 4 16QAM 20MHz CH-Low



LTE Band 4 16QAM 15MHz CH-Middle



LTE Band 4 16QAM 20MHz CH-Middle



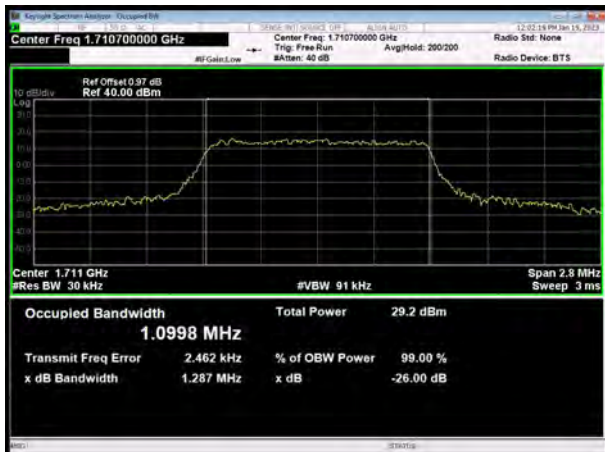
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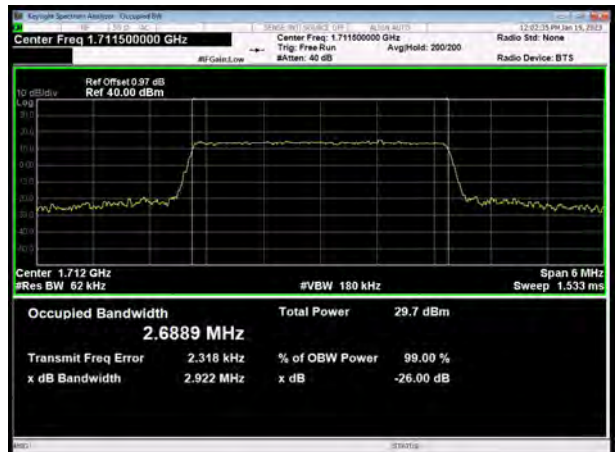
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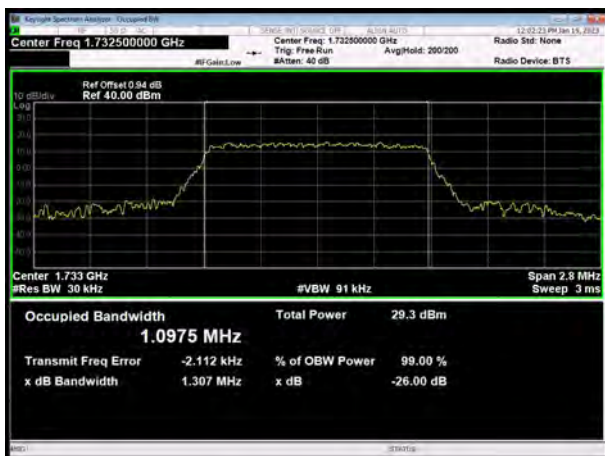
LTE Band 4 1.4MHz 64QAM CH-Low



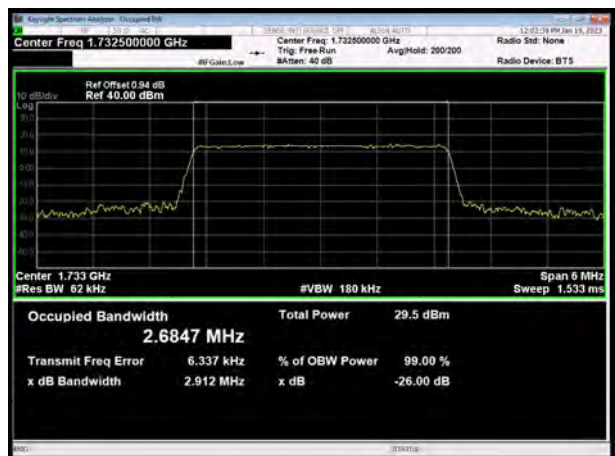
LTE Band 4 3MHz 64QAM CH-Low



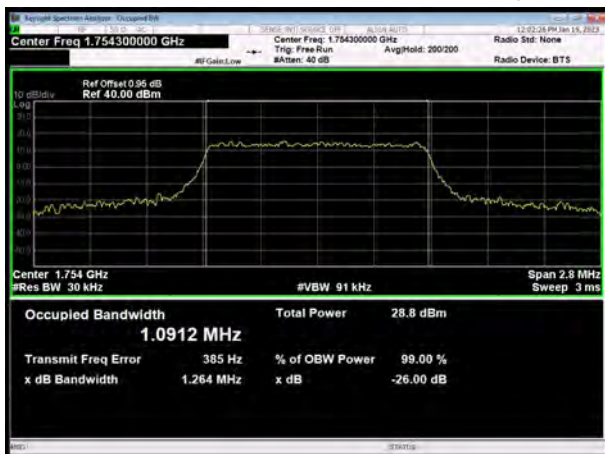
LTE Band 4 1.4MHz 64QAM CH-Middle



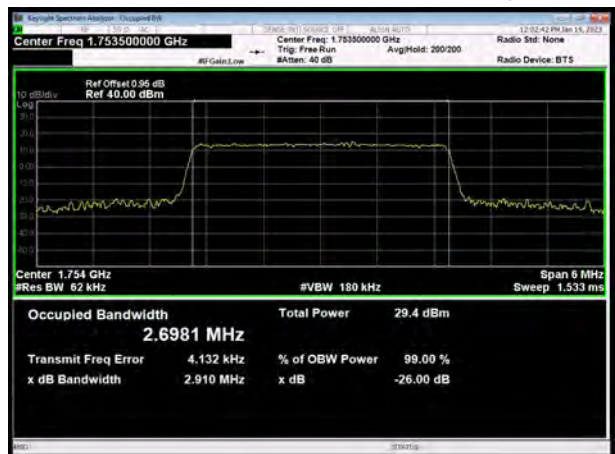
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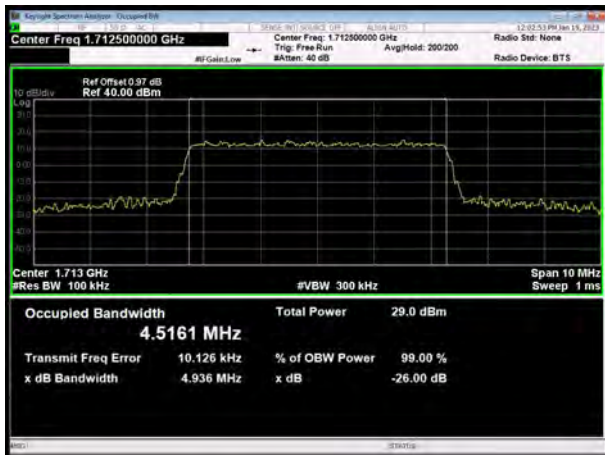
LTE Band 4 1.4MHz 64QAM CH-High



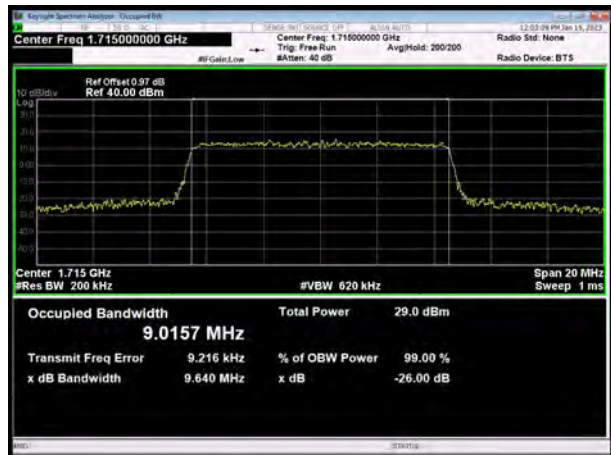
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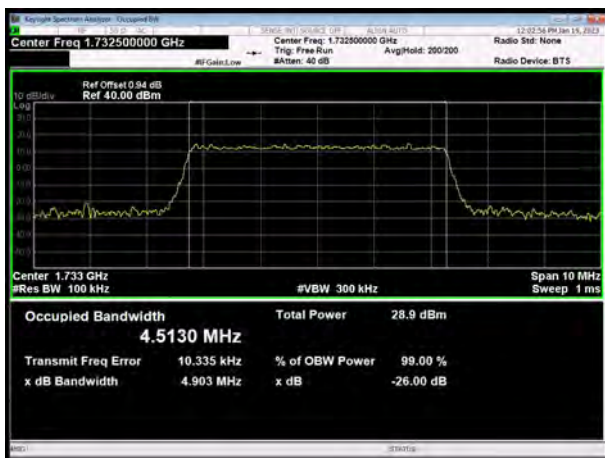
LTE Band 4 5MHz 64QAM CH-Low



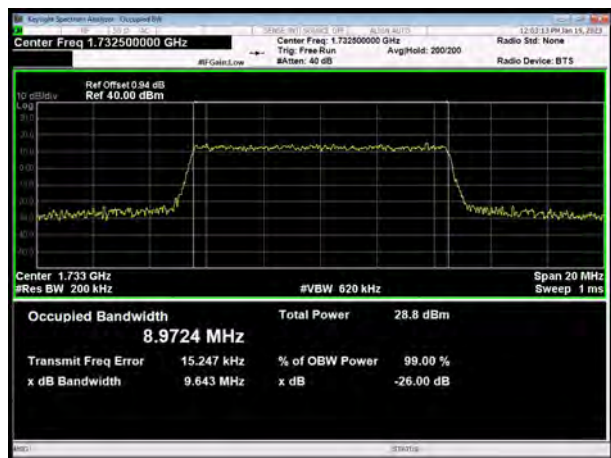
LTE Band 4 10MHz 64QAM CH-Low



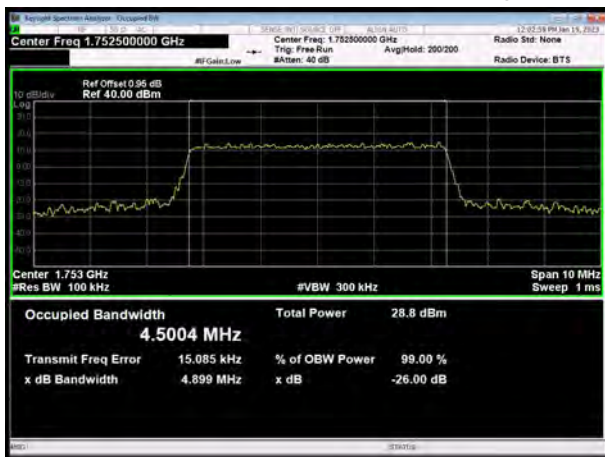
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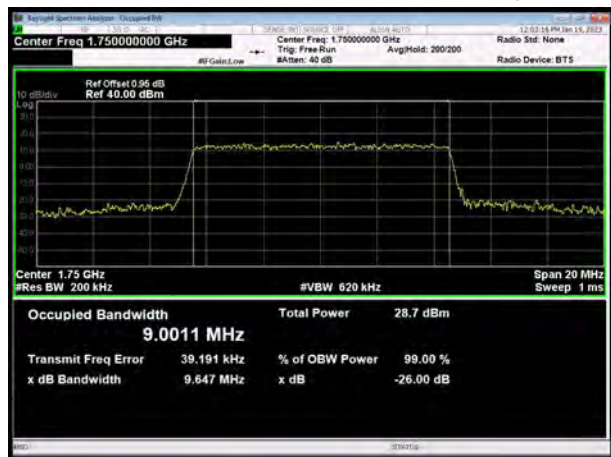
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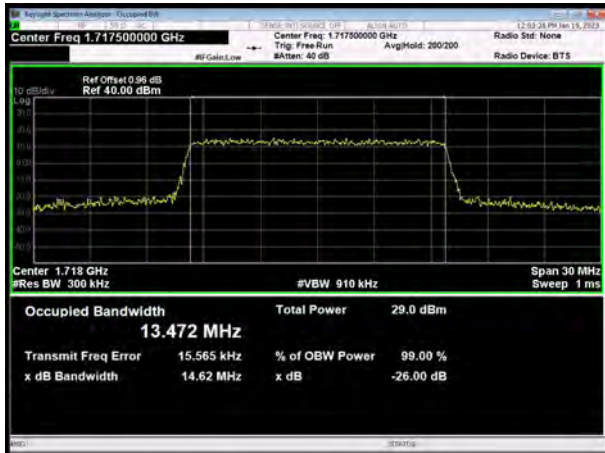
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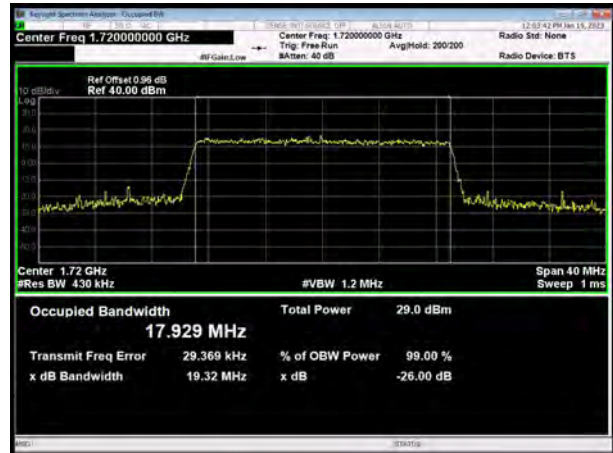
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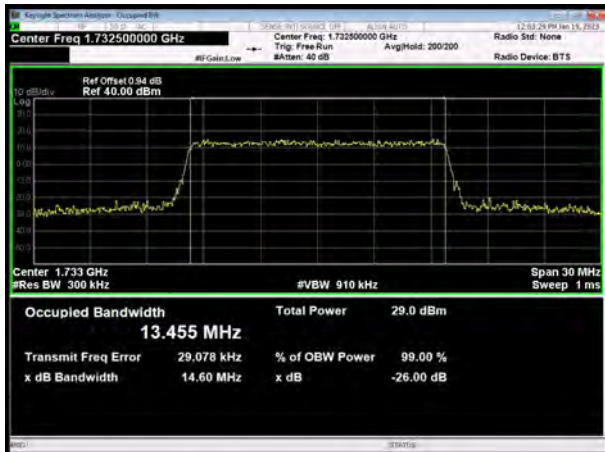
LTE Band 4 15MHz 64QAM CH-Low



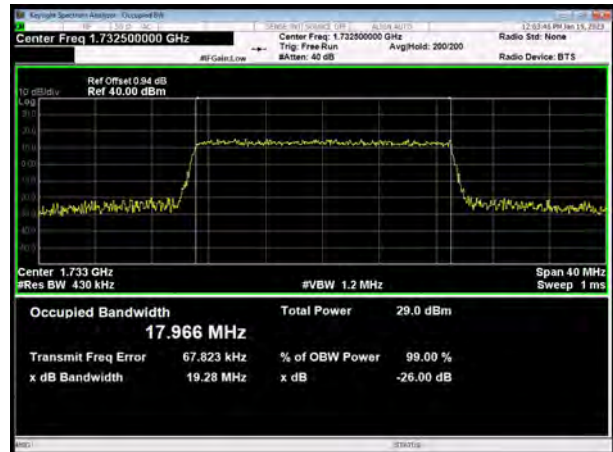
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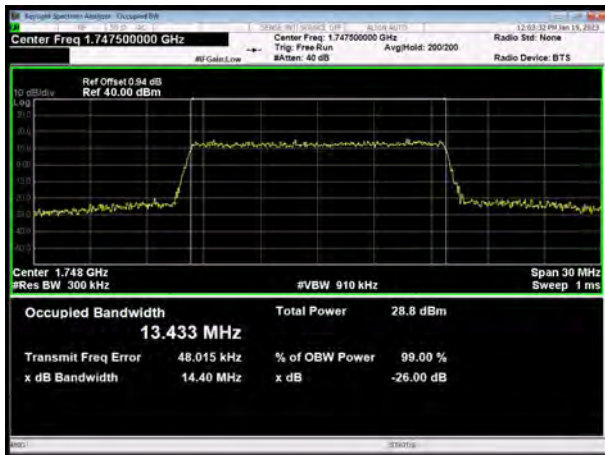
LTE Band 4 15MHz 64QAM CH-Middle



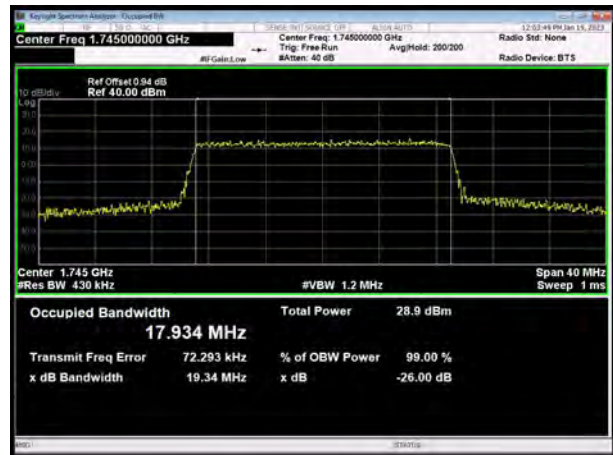
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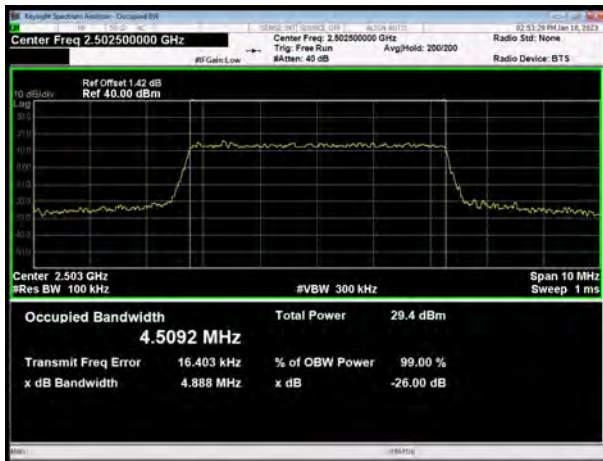
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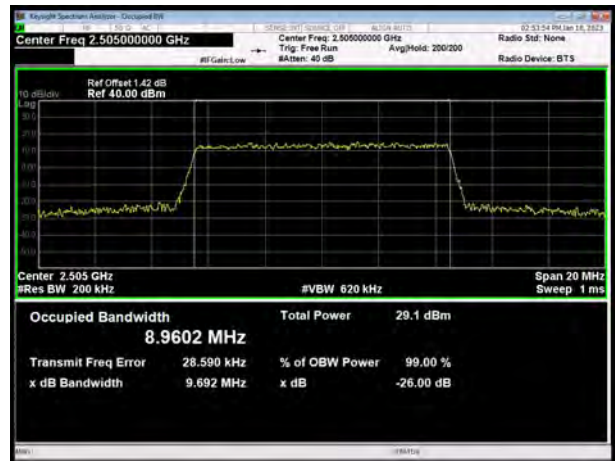
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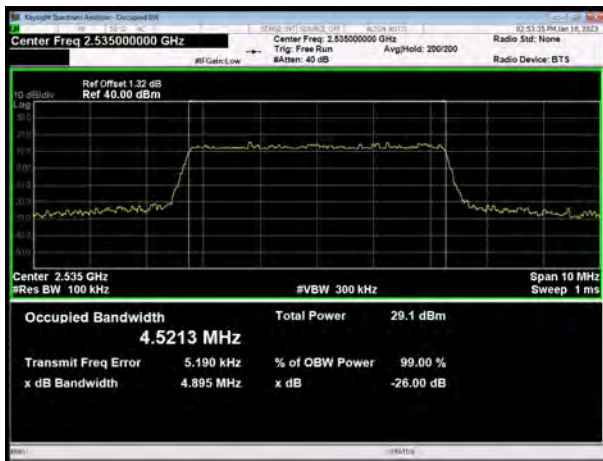
LTE Band 7 QPSK 5MHz CH-Low



LTE Band 7 QPSK 10MHz CH-Low



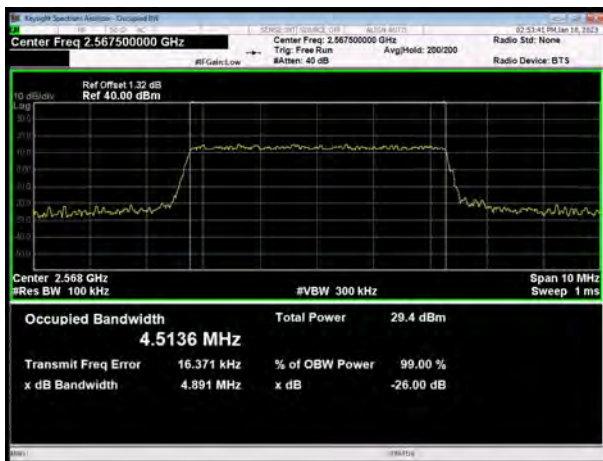
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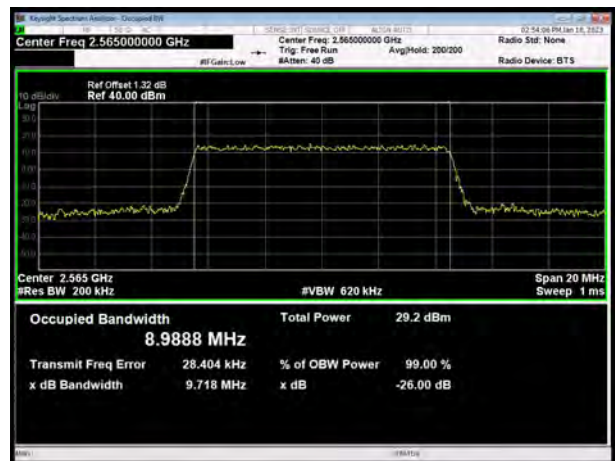
LTE Band 7 QPSK 10MHz CH-Middle



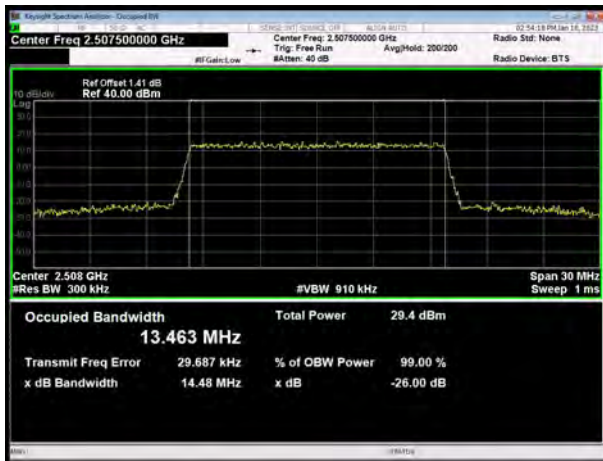
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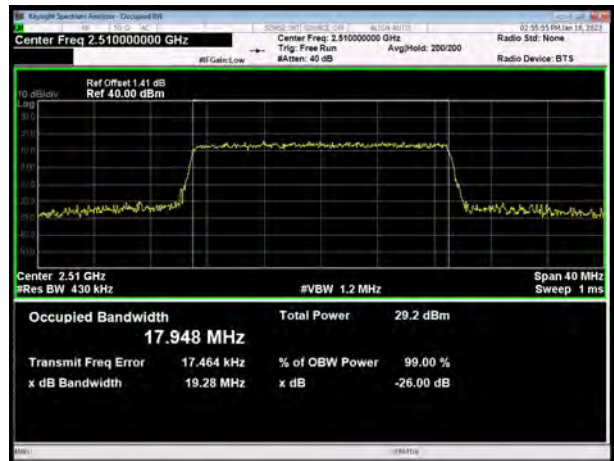
LTE Band 7 QPSK 10MHz CH-High



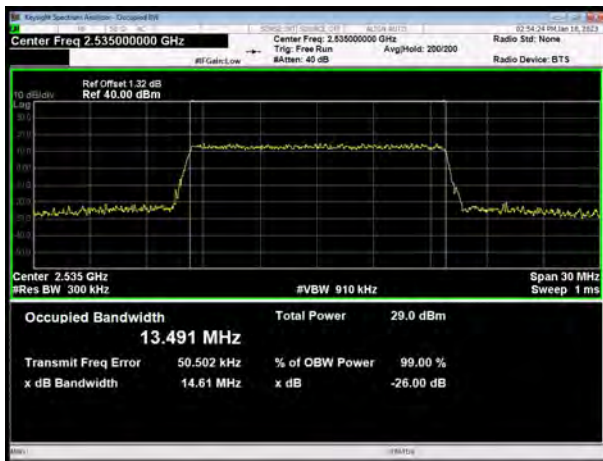
LTE Band 7 QPSK 15MHz CH-Low



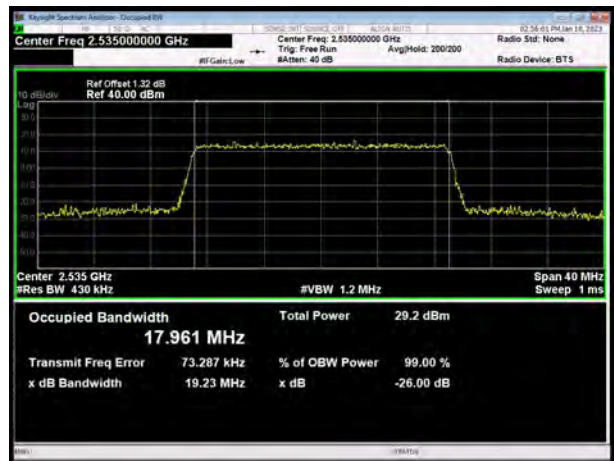
LTE Band 7 QPSK 20MHz CH-Low



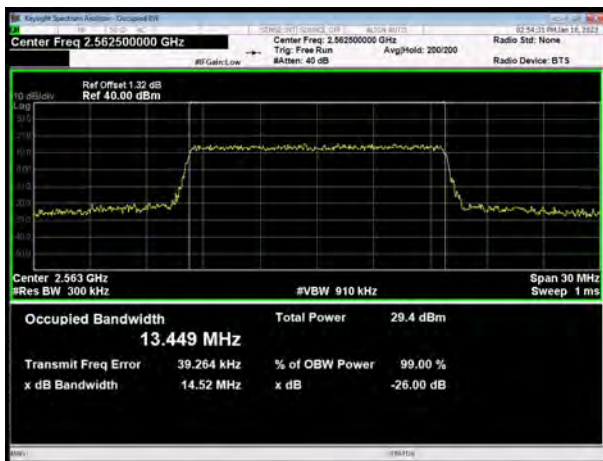
LTE Band 7 QPSK 15MHz CH-Middle



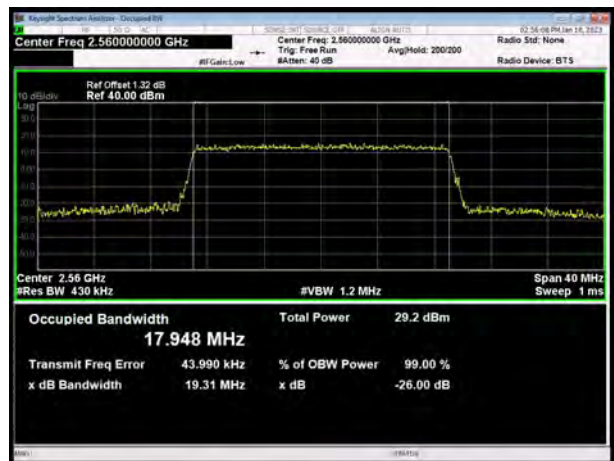
LTE Band 7 QPSK 20MHz CH-Middle



LTE Band 7 QPSK 15MHz CH-High



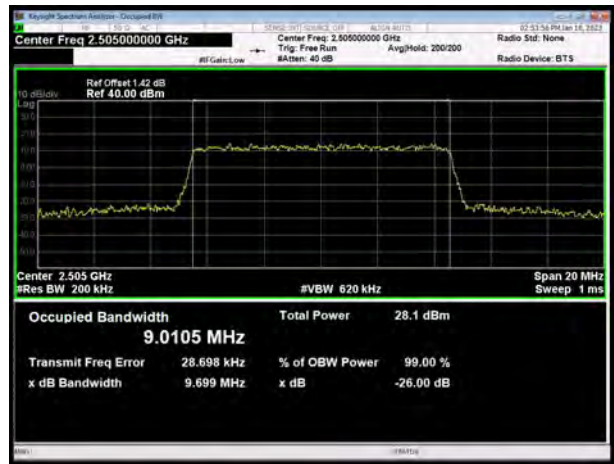
LTE Band 7 QPSK 20MHz CH-High



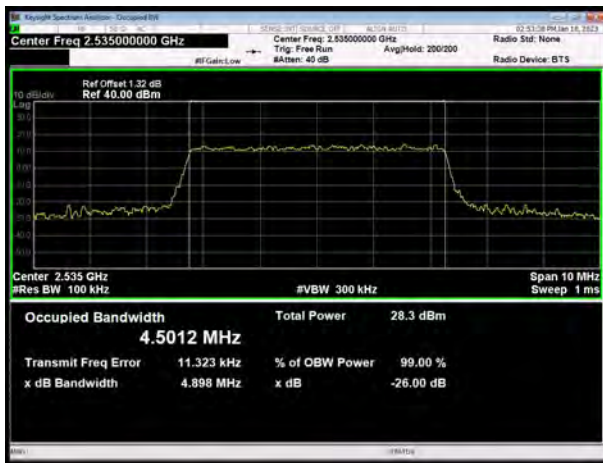
LTE Band 7 16QAM 5MHz CH-Low



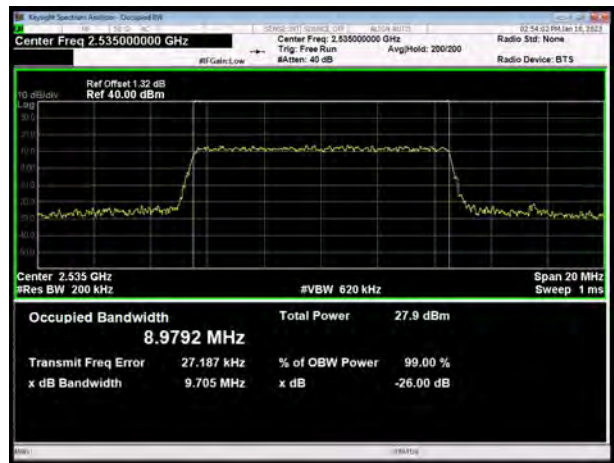
LTE Band 7 16QAM 10MHz CH-Low



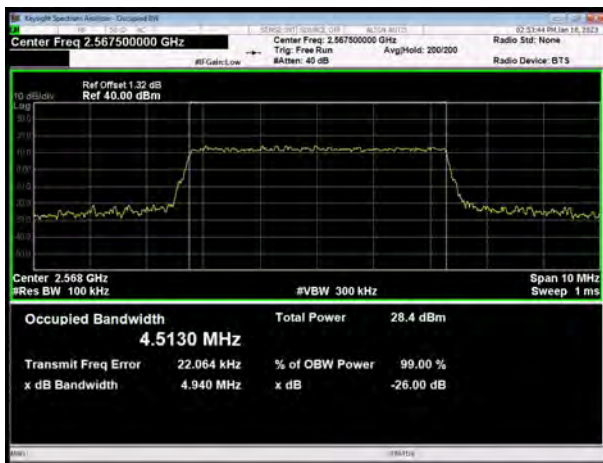
LTE Band 7 16QAM 5MHz CH-Middle



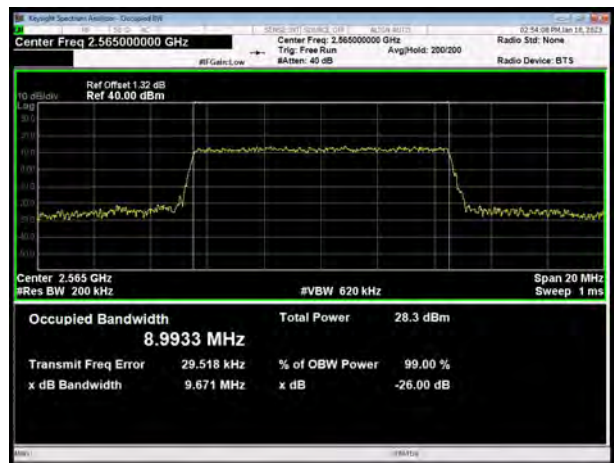
LTE Band 7 16QAM 10MHz CH-Middle



LTE Band 7 16QAM 5MHz CH-High



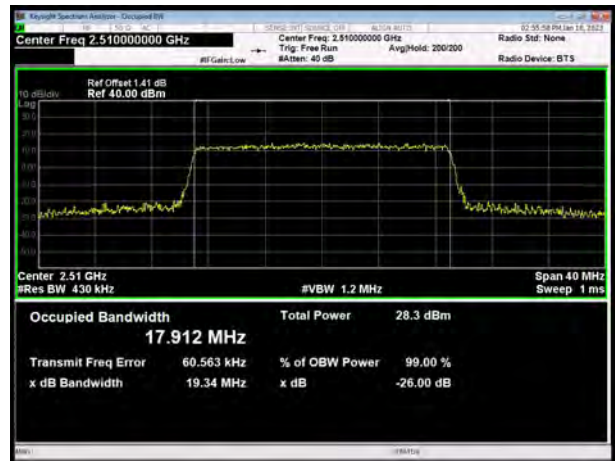
LTE Band 7 16QAM 10MHz CH-High



LTE Band 7 16QAM 15MHz CH-Low



LTE Band 7 16QAM 20MHz CH-Low



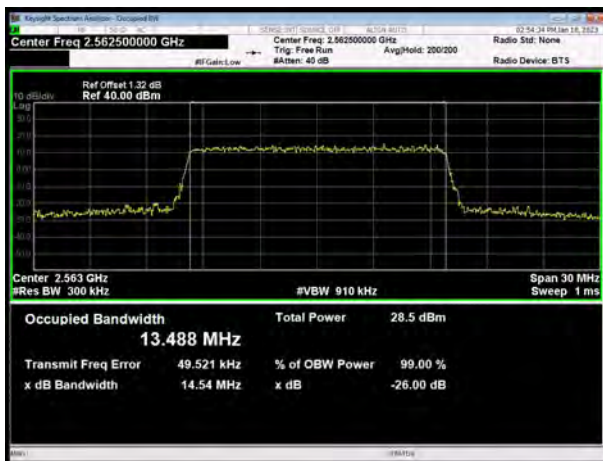
LTE Band 7 16QAM 15MHz CH-Middle



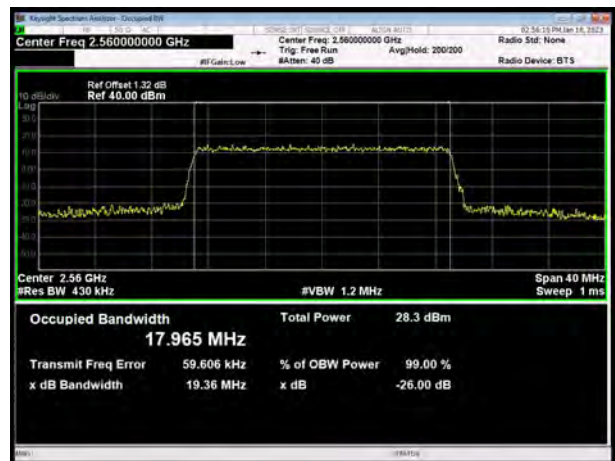
LTE Band 7 16QAM 20MHz CH-Middle



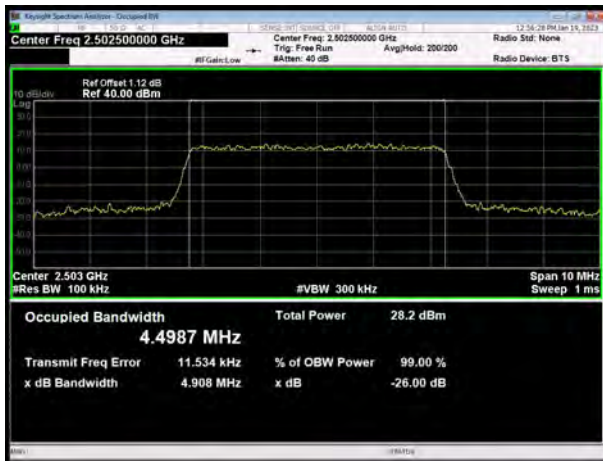
LTE Band 7 16QAM 15MHz CH-High



LTE Band 7 16QAM 20MHz CH-High



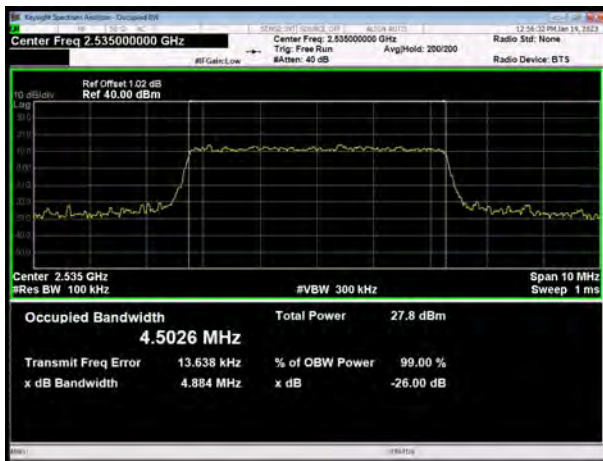
LTE Band 7 64QAM 5MHz CH-Low



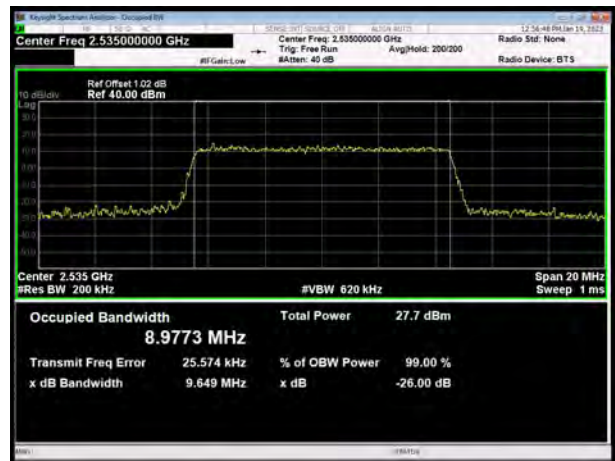
LTE Band 7 64QAM 10MHz CH-Low



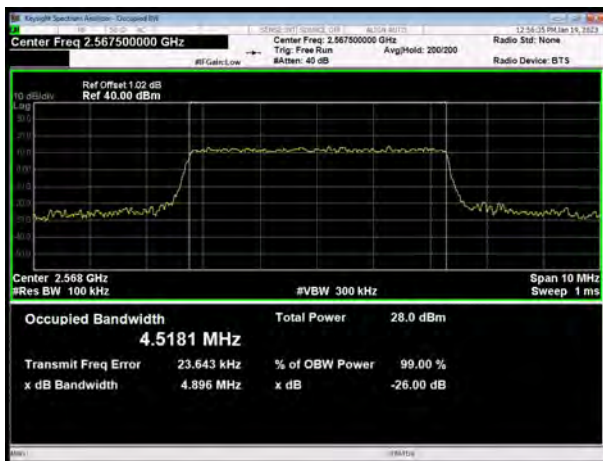
LTE Band 7 64QAM 5MHz CH-Middle



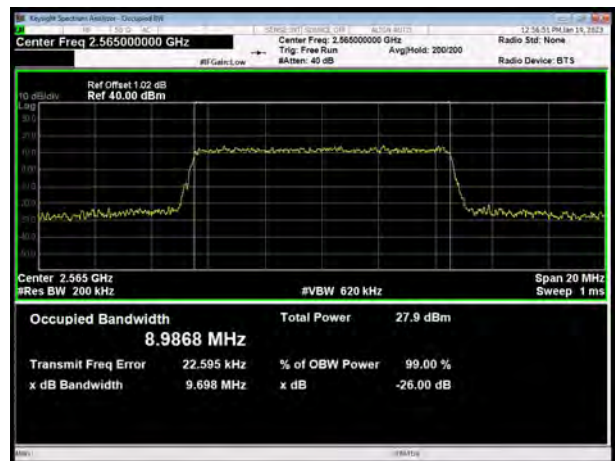
LTE Band 7 64QAM 10MHz CH-Middle



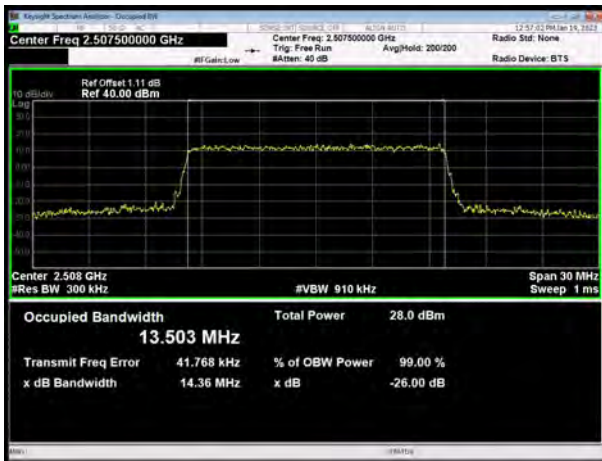
LTE Band 7 64QAM 5MHz CH-High



LTE Band 7 64QAM 10MHz CH-High



LTE Band 7 64QAM 15MHz CH-Low



LTE Band 7 64QAM 20MHz CH-Low



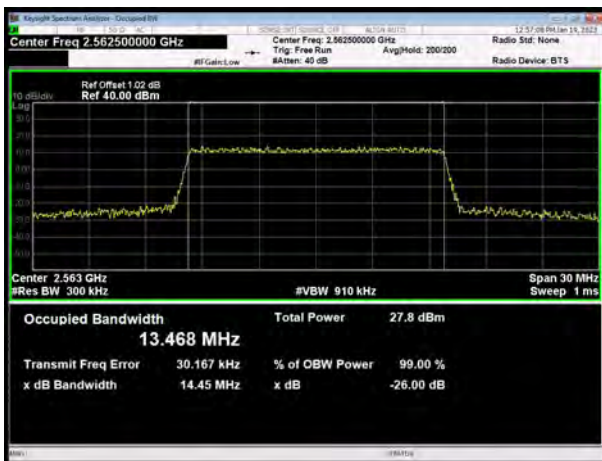
LTE Band 7 64QAM 15MHz CH-Middle



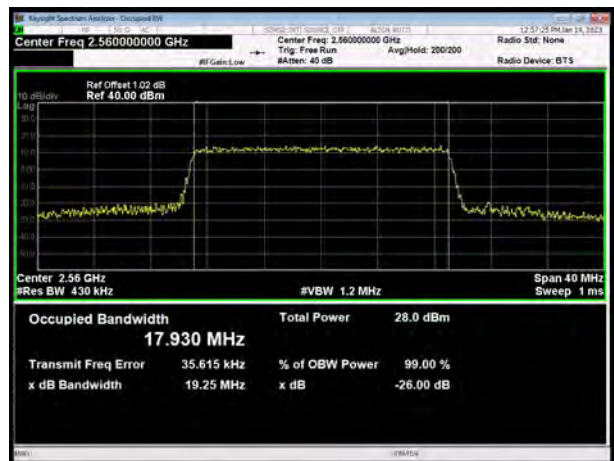
LTE Band 7 64QAM 20MHz CH-Middle



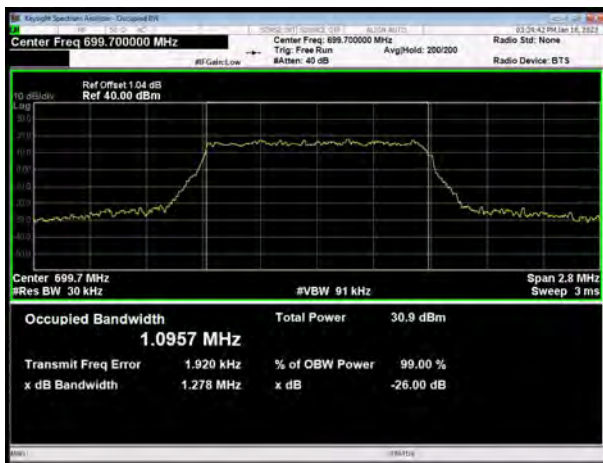
LTE Band 7 64QAM 15MHz CH-High



LTE Band 7 64QAM 20MHz CH-High



LTE Band 12 QPSK 1.4MHz CH-Low



LTE Band 12 QPSK 3MHz CH-Low



LTE Band 12 QPSK 1.4MHz CH-Middle



LTE Band 12 QPSK 3MHz CH-Middle



LTE Band 12 QPSK 1.4MHz CH-High



LTE Band 12 QPSK 3MHz CH-High



LTE Band 12 QPSK 5MHz CH-Low



LTE Band 12 QPSK 10MHz CH-Low



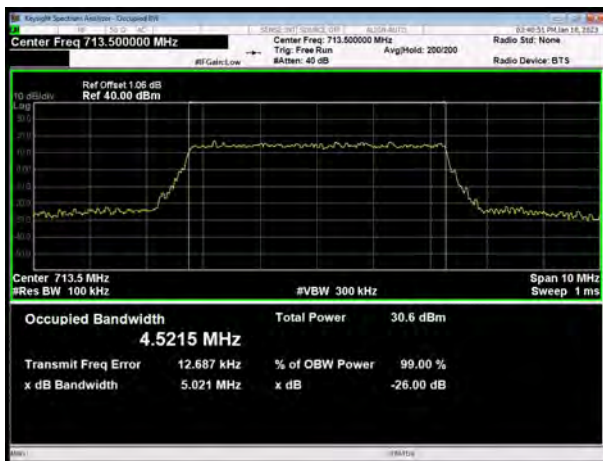
LTE Band 12 QPSK 5MHz CH-Middle



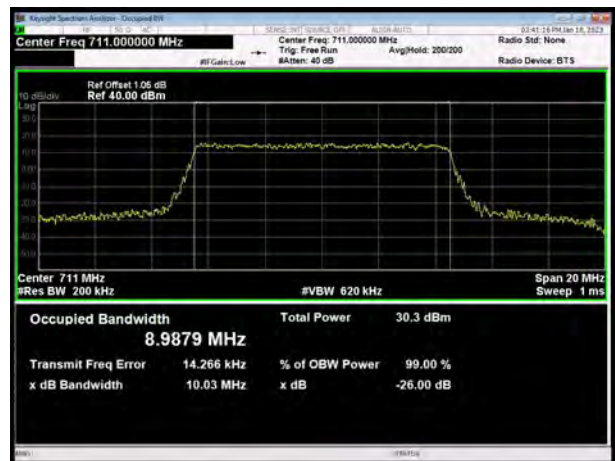
LTE Band 12 QPSK 10MHz CH-Middle



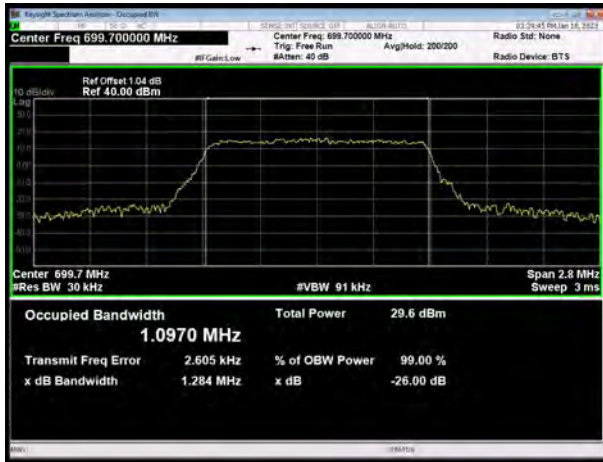
LTE Band 12 QPSK 5MHz CH-High



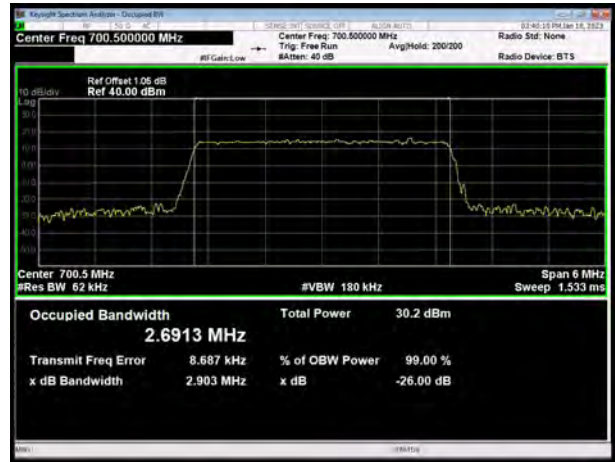
LTE Band 12 QPSK 10MHz CH-High



LTE Band 12 16QAM 1.4MHz CH-Low



LTE Band 12 16QAM 3MHz CH-Low



LTE Band 12 16QAM 1.4MHz CH-Middle



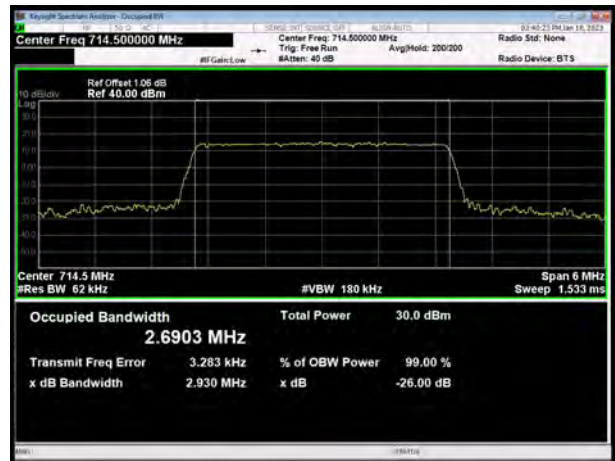
LTE Band 12 16QAM 3MHz CH-Middle



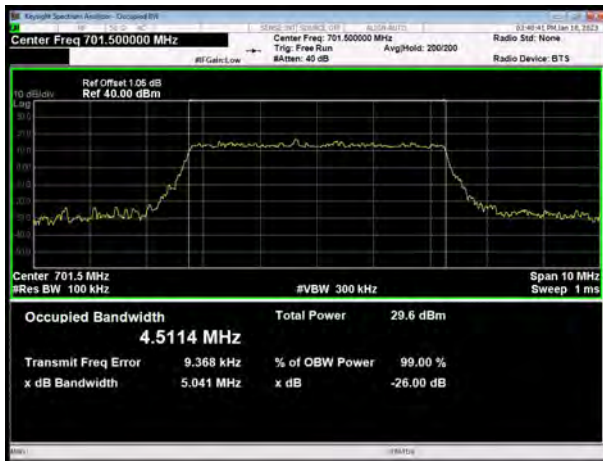
LTE Band 12 16QAM 1.4MHz CH-High



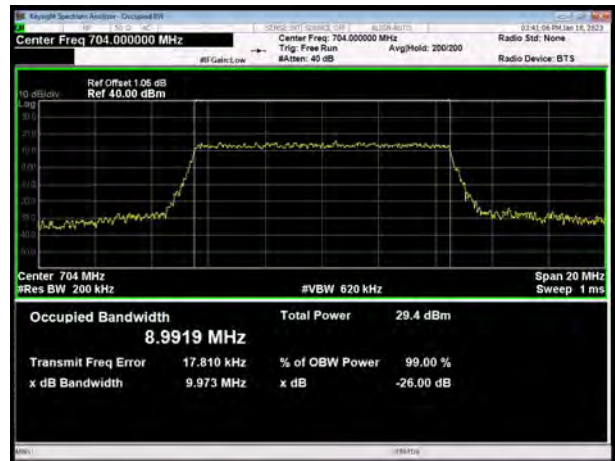
LTE Band 12 16QAM 3MHz CH-High



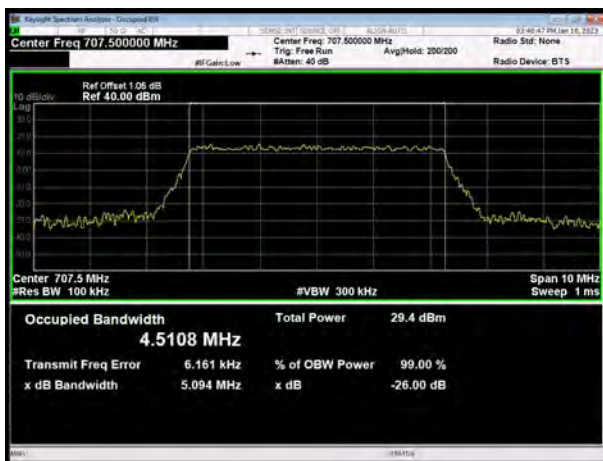
LTE Band 12 16QAM 5MHz CH-Low



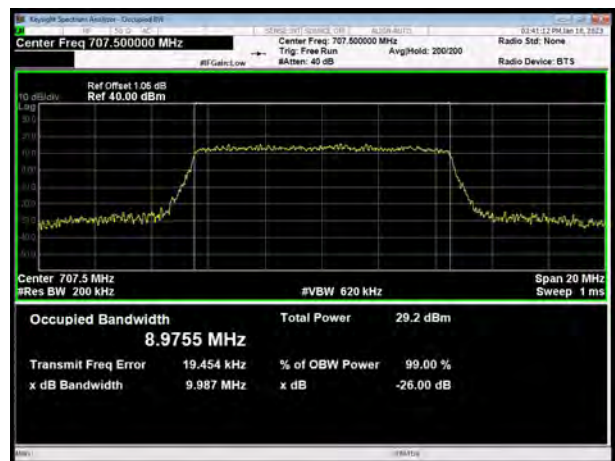
LTE Band 12 16QAM 10MHz CH-Low



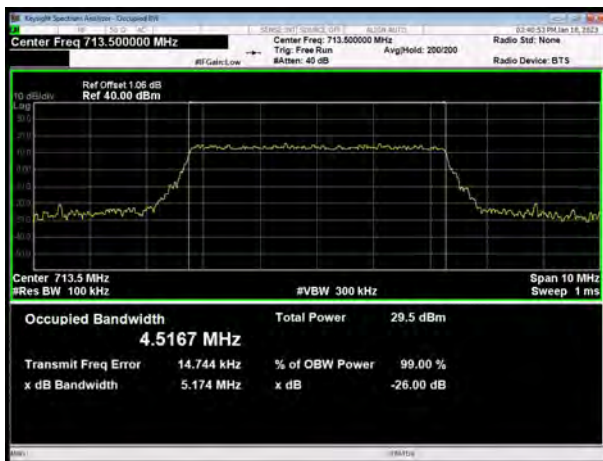
LTE Band 12 16QAM 5MHz CH-Middle



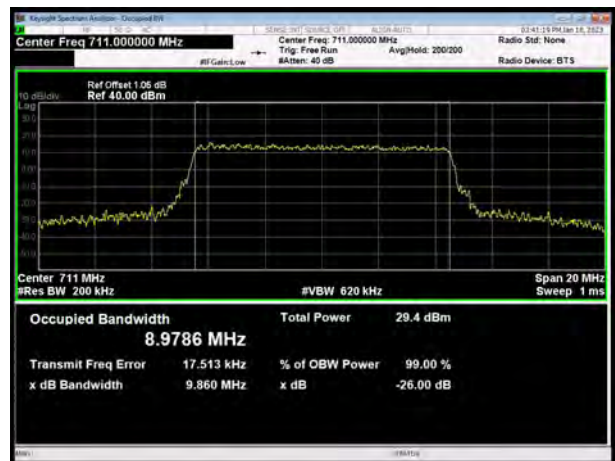
LTE Band 12 16QAM 10MHz CH-Middle



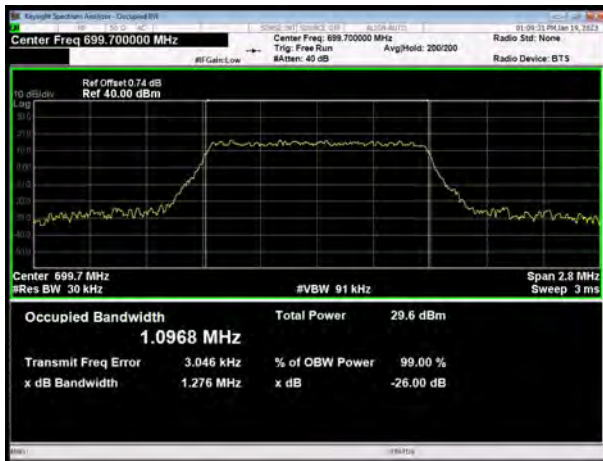
LTE Band 12 16QAM 5MHz CH-High



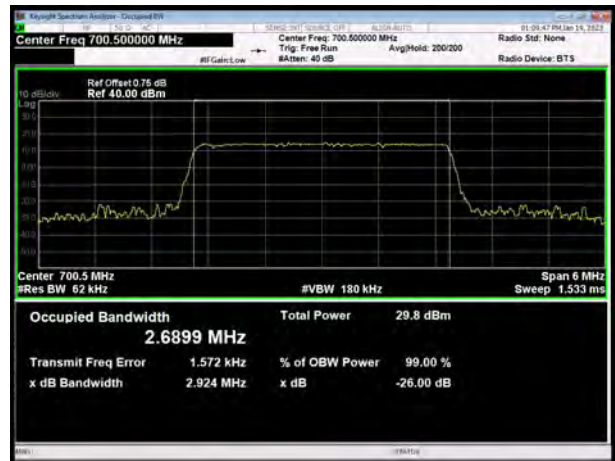
LTE Band 12 16QAM 10MHz CH-High



LTE Band 12 64QAM 1.4MHz CH-Low



LTE Band 12 64QAM 3MHz CH-Low



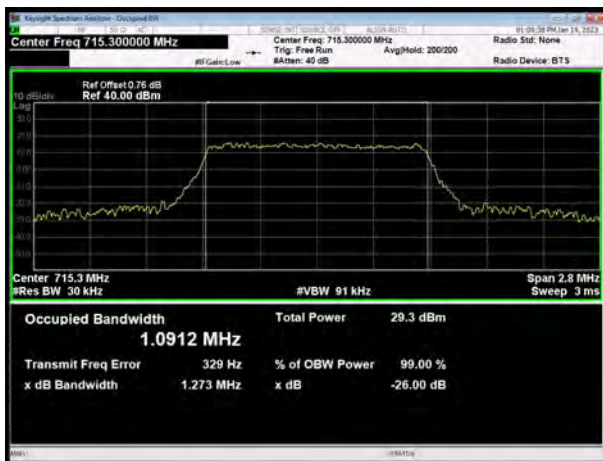
LTE Band 12 64QAM 1.4MHz CH-Middle



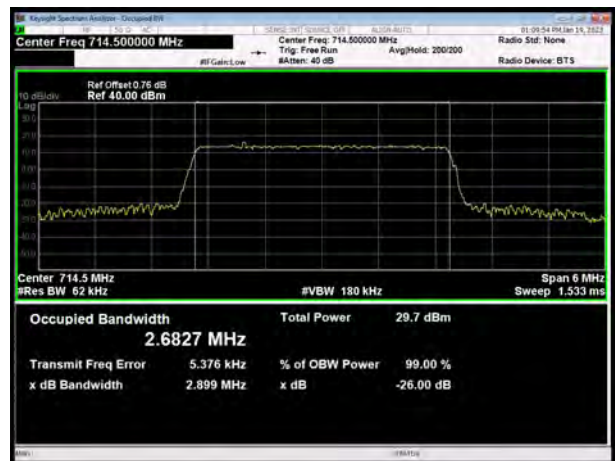
LTE Band 12 64QAM 3MHz CH-Middle



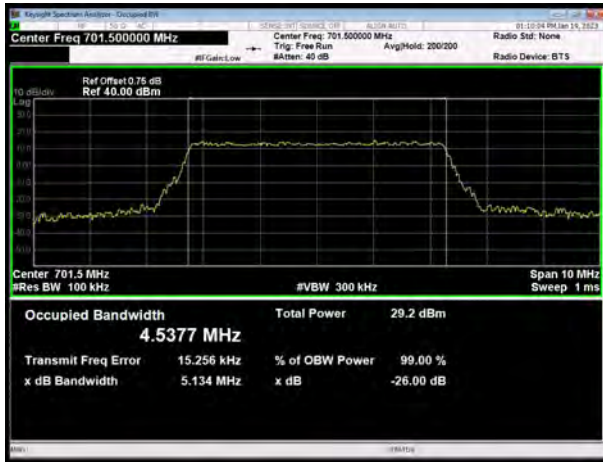
LTE Band 12 64QAM 1.4MHz CH-High



LTE Band 12 64QAM 3MHz CH-High



LTE Band 12 64QAM 5MHz CH-Low



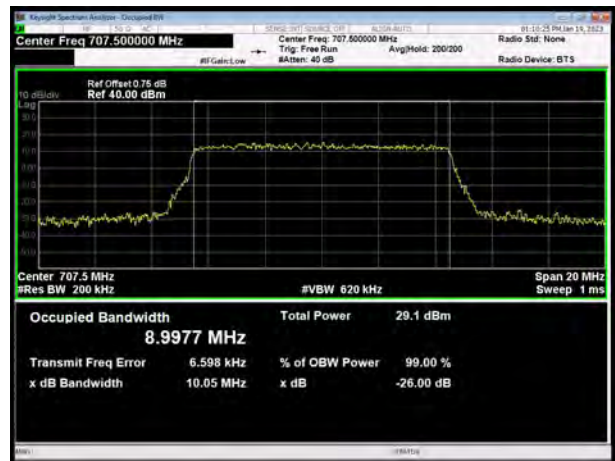
LTE Band 12 64QAM 10MHz CH-Low



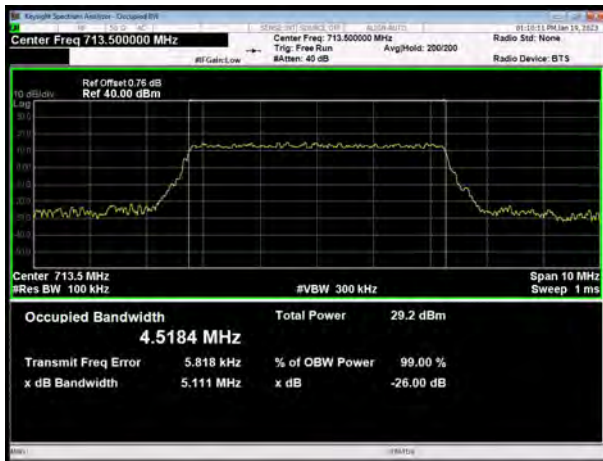
LTE Band 12 64QAM 5MHz CH-Middle



LTE Band 12 64QAM 10MHz CH-Middle



LTE Band 12 64QAM 5MHz CH-High



LTE Band 12 64QAM 10MHz CH-High



LTE Band 30 QPSK 5MHz CH-Low



LTE Band 30 QPSK 5MHz CH-Middle



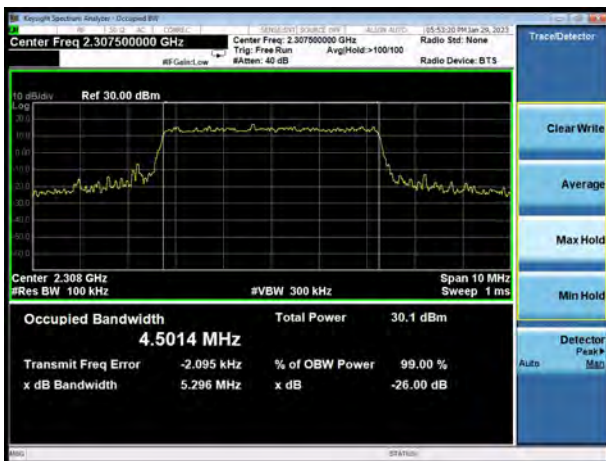
LTE Band 30 QPSK 5MHz CH-High



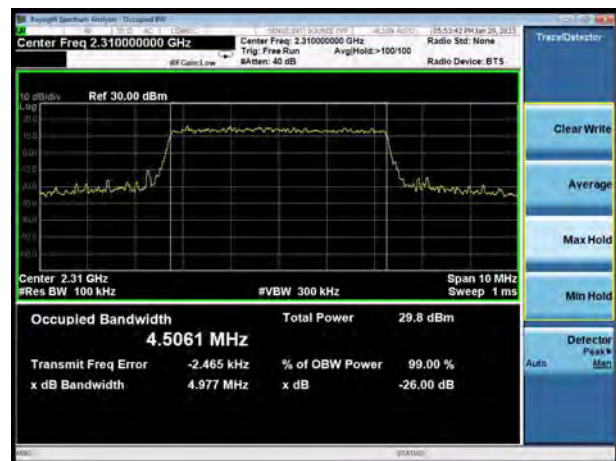
LTE Band 30 QPSK 10MHz CH-Middle



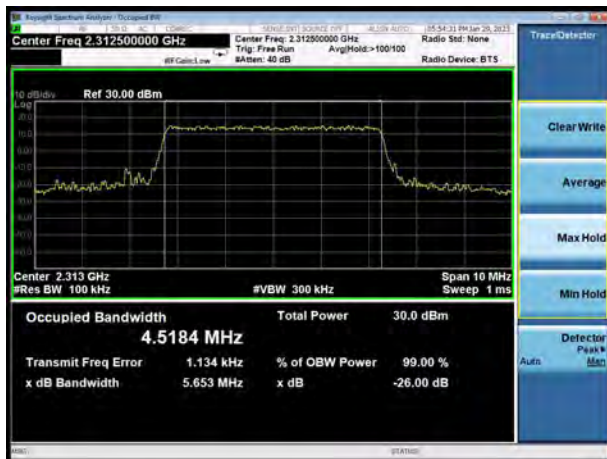
LTE Band 30 16AQM 5MHz CH-Low



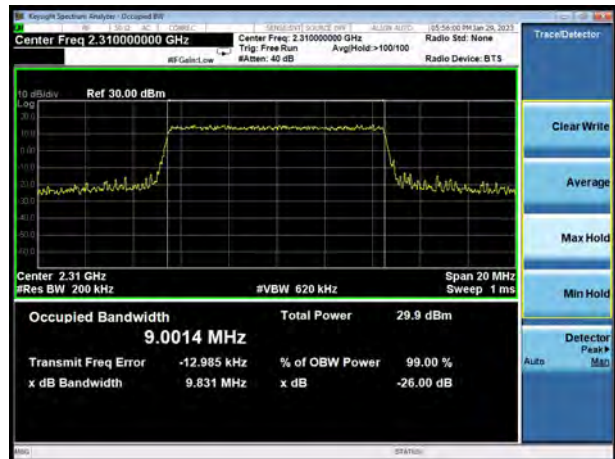
LTE Band 30 16AQM 5MHz CH-Middle



LTE Band 30 16QAM 5MH CH-High



LTE Band 30 QPSK 10MHz CH-Middle



LTE Band 30 64QAM 5MH CH-Low



LTE Band 30 64QAM 5MH CH-Middle



LTE Band 30 64QAM 5MH CH-High

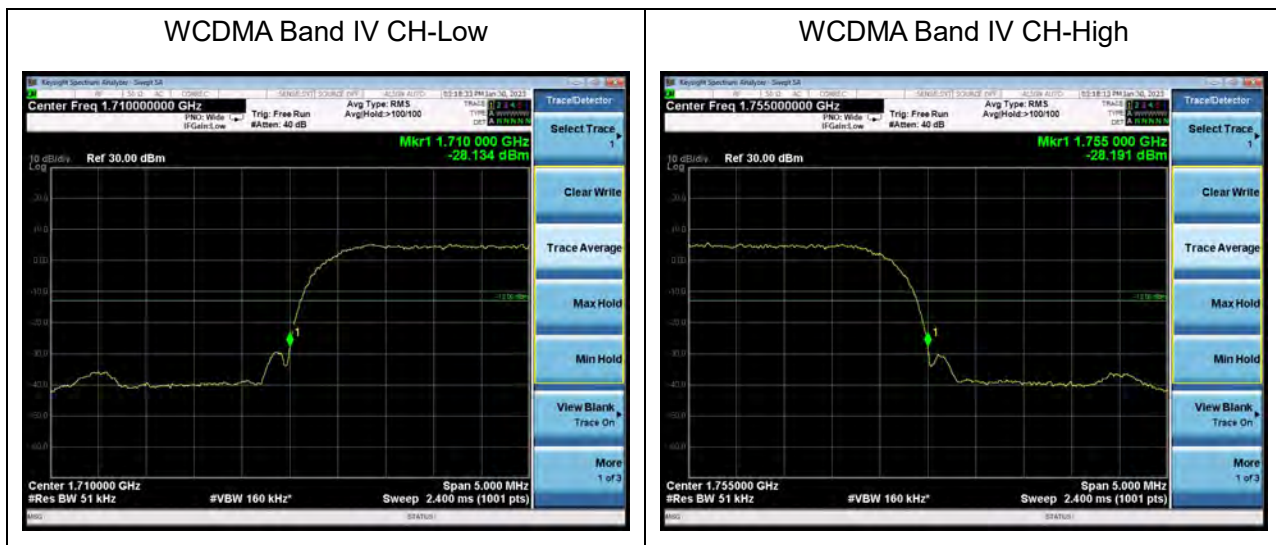


LTE Band 30 64QAM 10MH CH-Middle

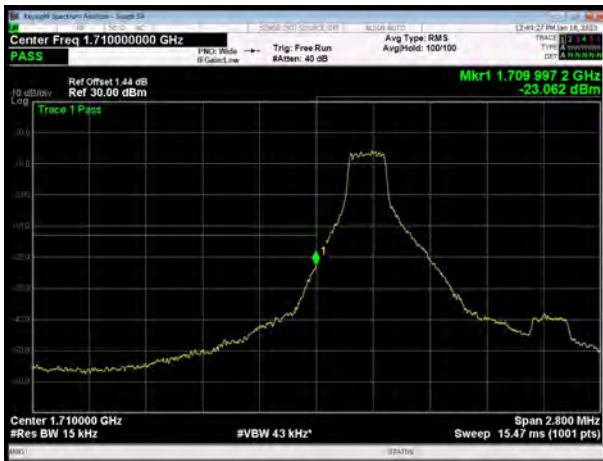


6.3 Band Edge Compliance

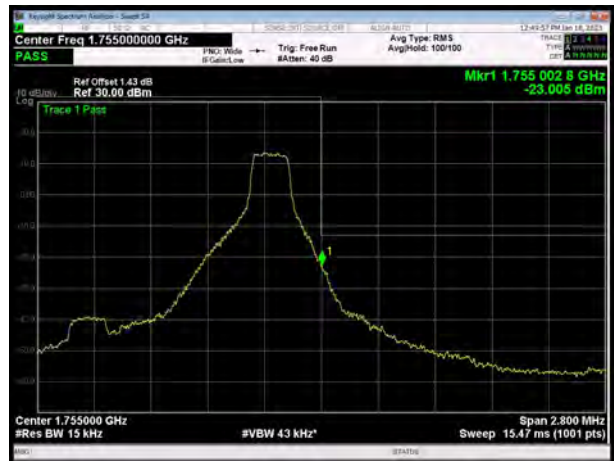
All the test traces in the plots shows the test results clearly.



LTE Band 4 QPSK 1.4MHz CH-Low, 1 RB



LTE Band 4 QPSK 1.4MHz CH-High, 1 RB



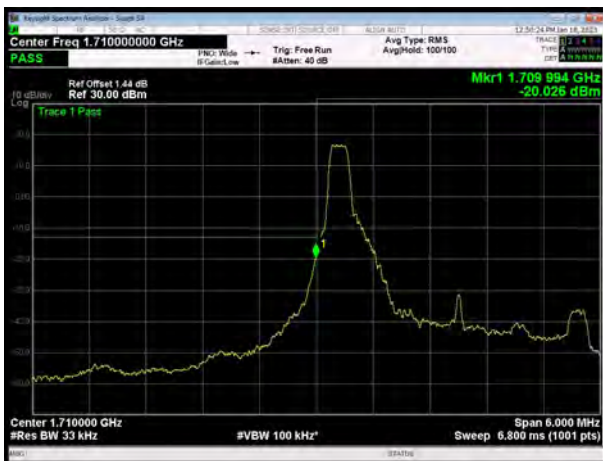
LTE Band 4 QPSK 1.4MHz CH-Low, 100%RB



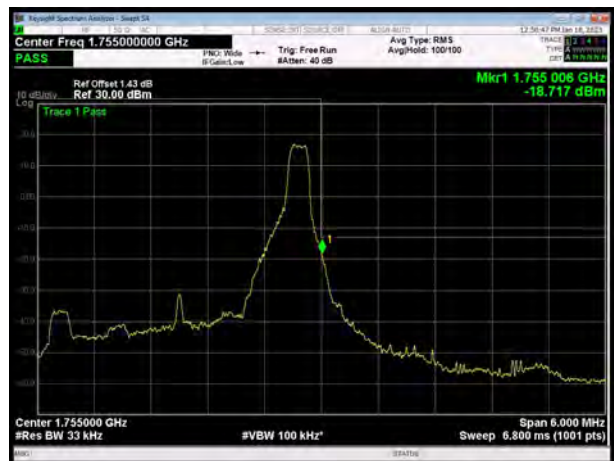
LTE Band 4 QPSK 1.4MHz CH-High, 100%RB



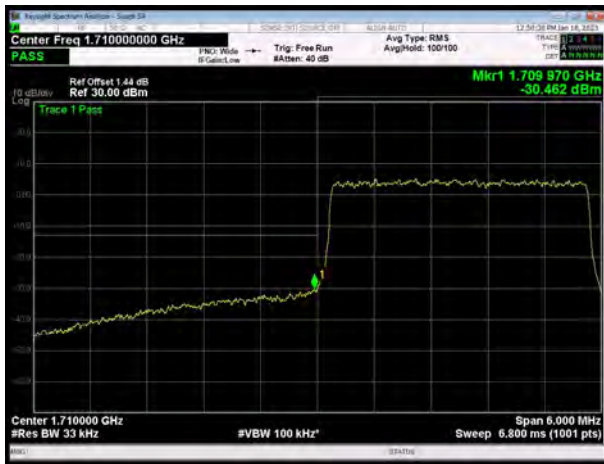
LTE Band 4 QPSK 3MHz CH-Low, 1 RB



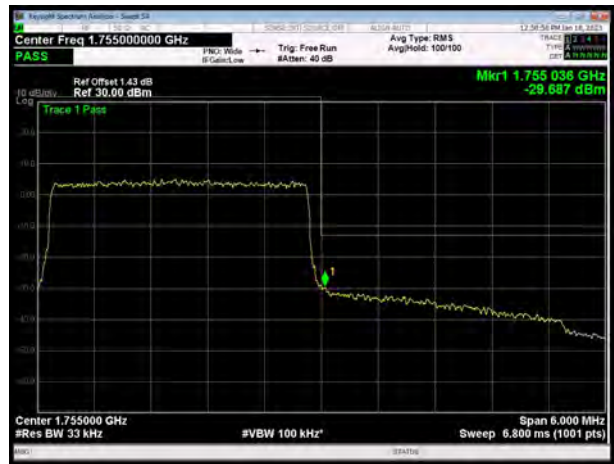
LTE Band 4 QPSK 3MHz CH-High, 1 RB



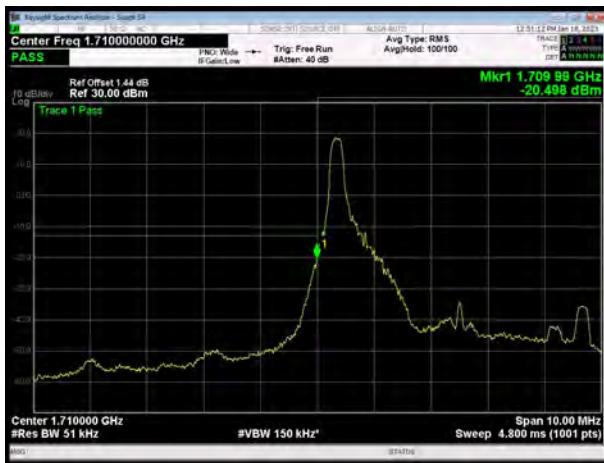
LTE Band 4 QPSK 3MHz CH-Low, 100%RB



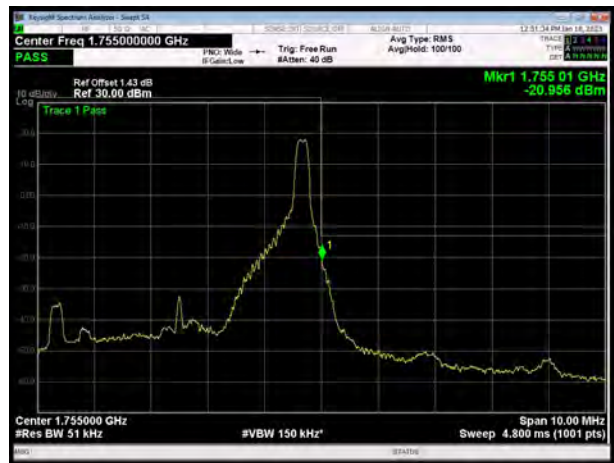
LTE Band 4 QPSK 3MHz CH-High, 100%RB



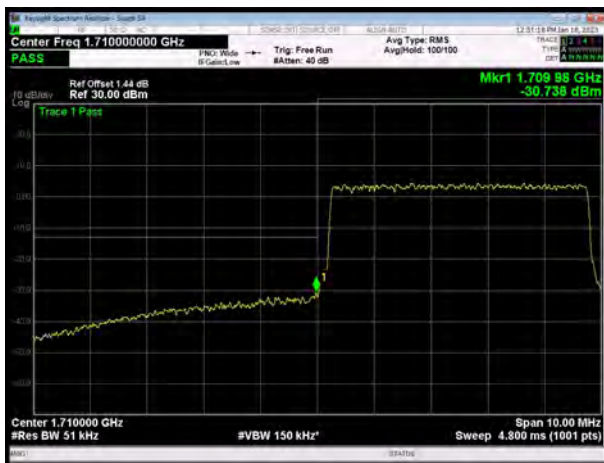
LTE Band 4 QPSK 5MHz CH-Low, 1 RB



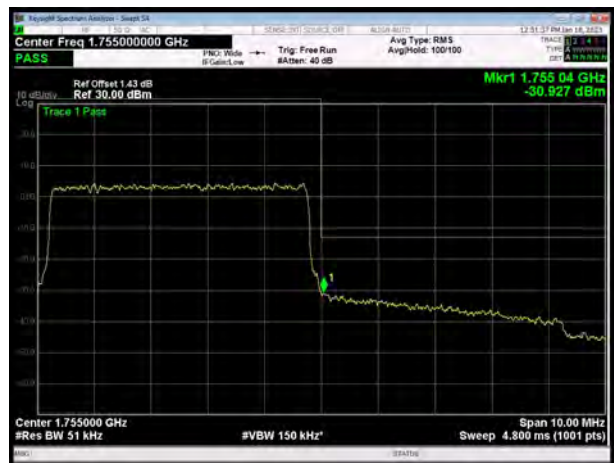
LTE Band 4 QPSK 5MHz CH-High, 1 RB



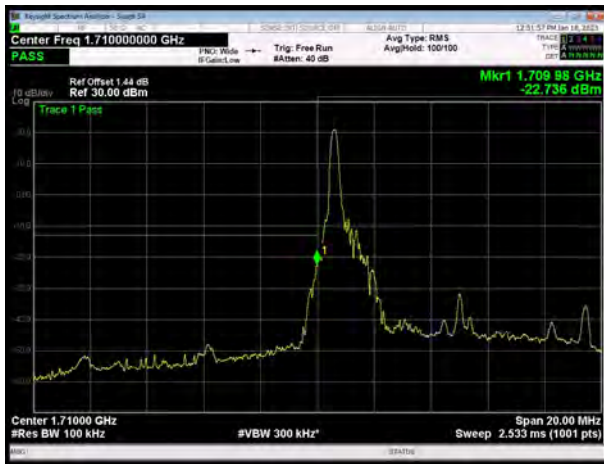
LTE Band 4 QPSK 5MHz CH-Low, 100%RB



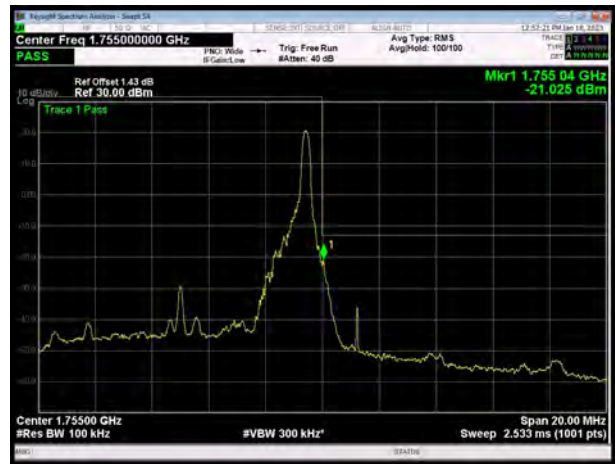
LTE Band 4 QPSK 5MHz CH-High, 100%RB



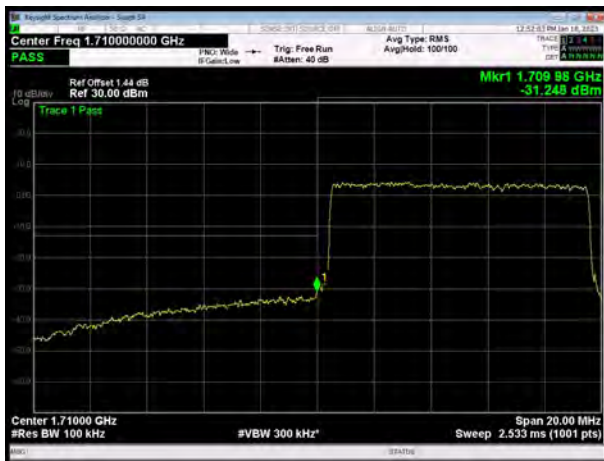
LTE Band 4 QPSK 10MHz CH-Low, 1 RB



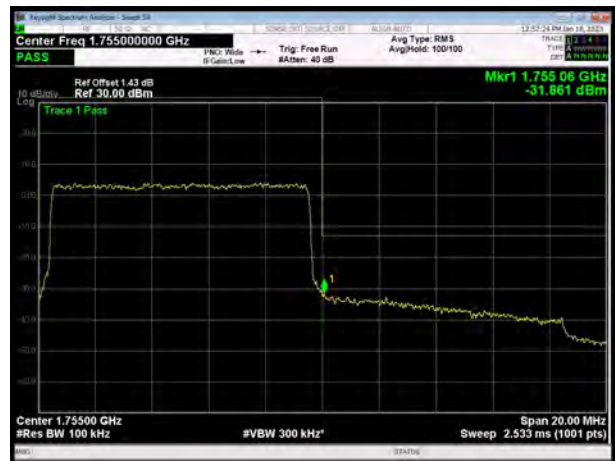
LTE Band 4 QPSK 10MHz CH-High, 1 RB



LTE Band 4 QPSK 10MHz CH-Low, 100%RB



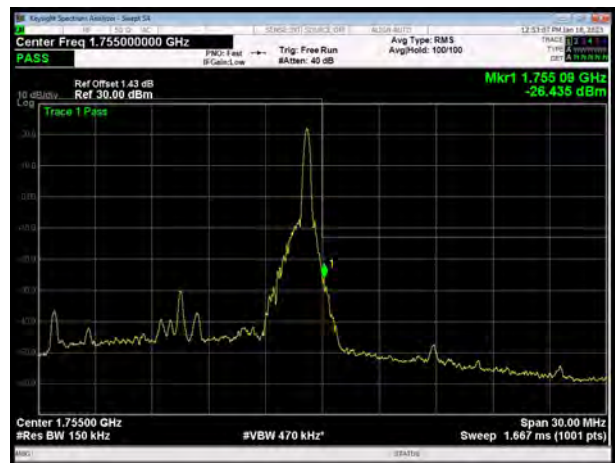
LTE Band 4 QPSK 10MHz CH-High, 100%RB



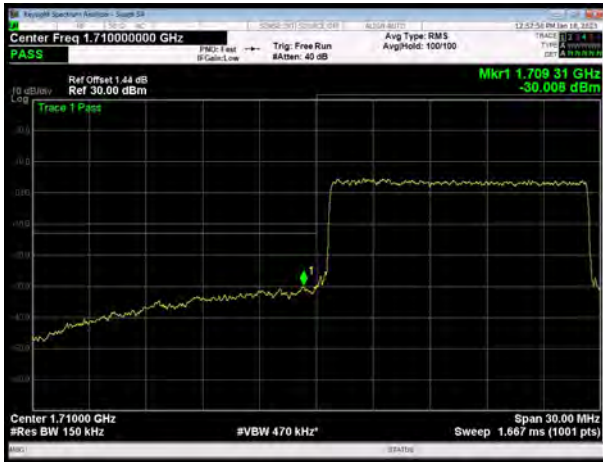
LTE Band 4 QPSK 15MHz CH-Low, 1 RB



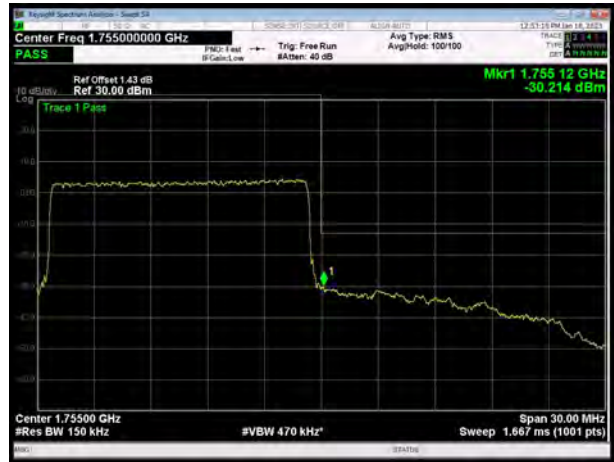
LTE Band 4 QPSK 15MHz CH-High, 1 RB



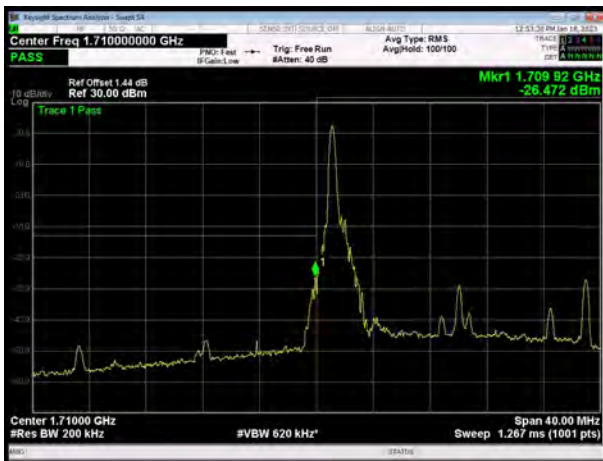
LTE Band 4 QPSK 15MHz CH-Low, 100%RB



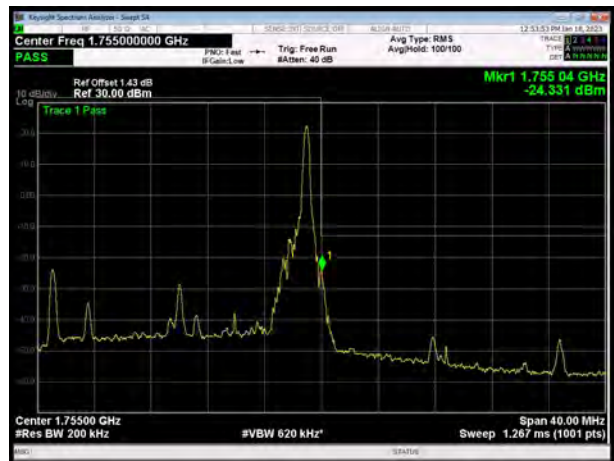
LTE Band 4 QPSK 15MHz CH-High, 100%RB



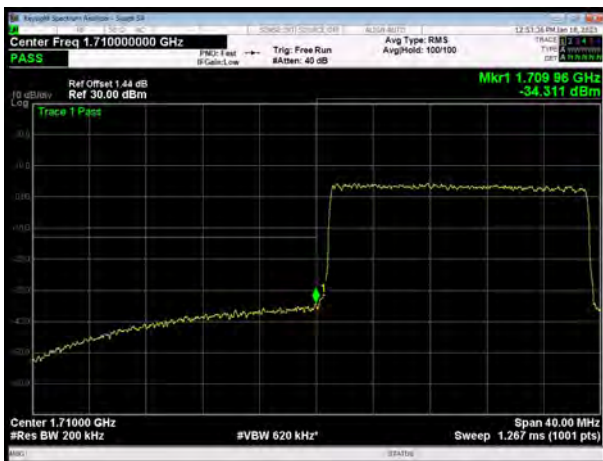
LTE Band 4 QPSK 20MHz CH-Low, 1 RB



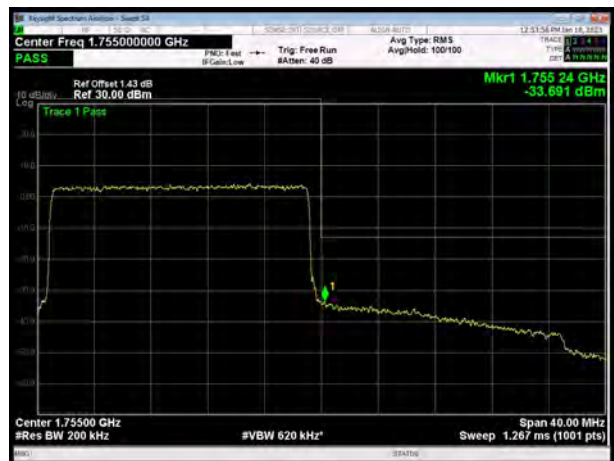
LTE Band 4 QPSK 20MHz CH-High, 1 RB



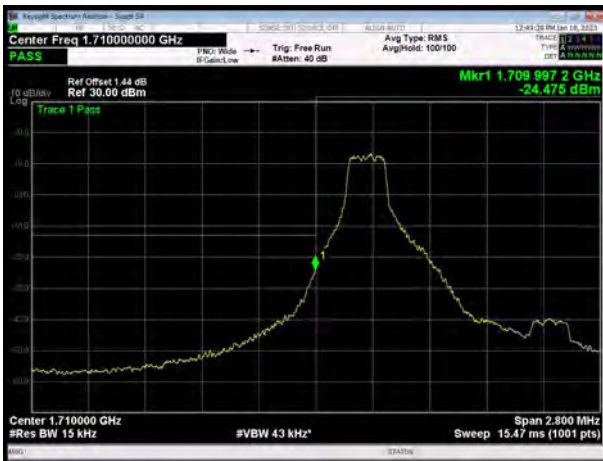
LTE Band 4 QPSK 20MHz CH-Low, 100%RB



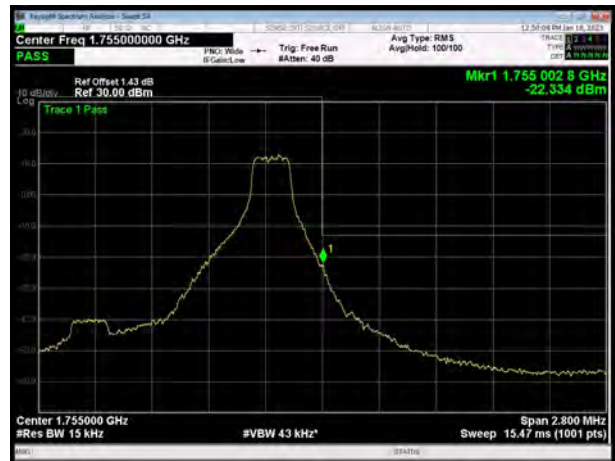
LTE Band 4 QPSK 20MHz CH-High, 100%RB



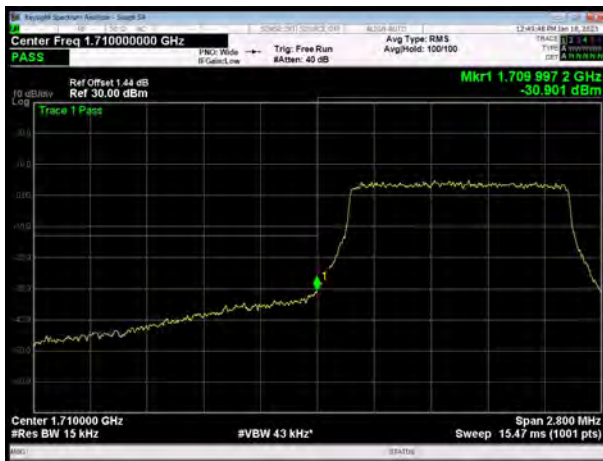
LTE Band 4 16QAM 1.4MHz CH-Low, 1 RB



LTE Band 4 16QAM 1.4MHz CH-High, 1 RB



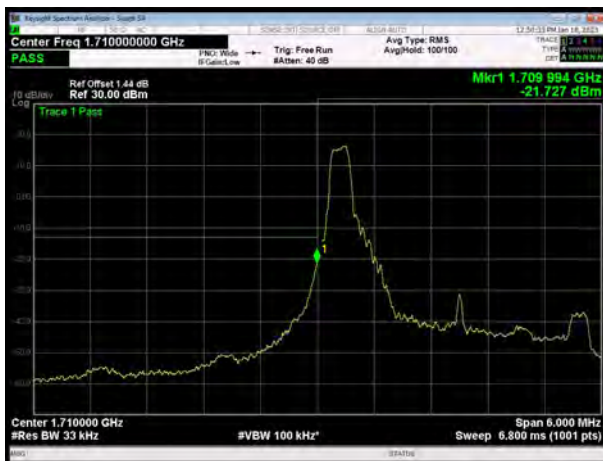
LTE Band 4 16QAM 1.4MHz CH-Low, 100%RB



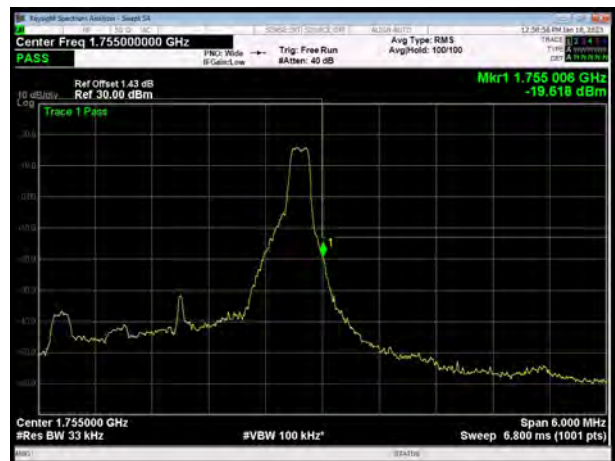
LTE Band 4 16QAM 1.4MHz CH-High, 100%RB



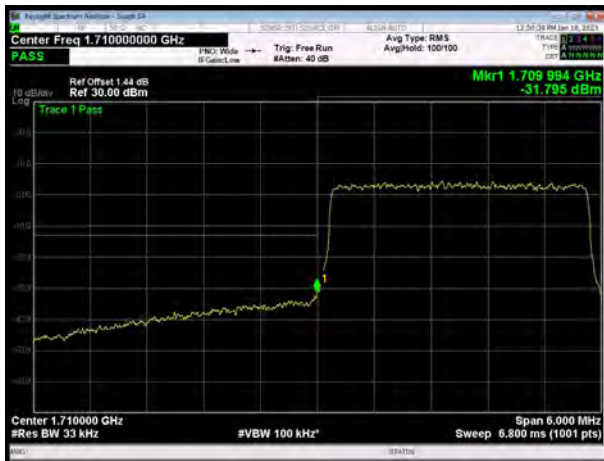
LTE Band 4 16QAM 3MHz CH-Low, 1 RB



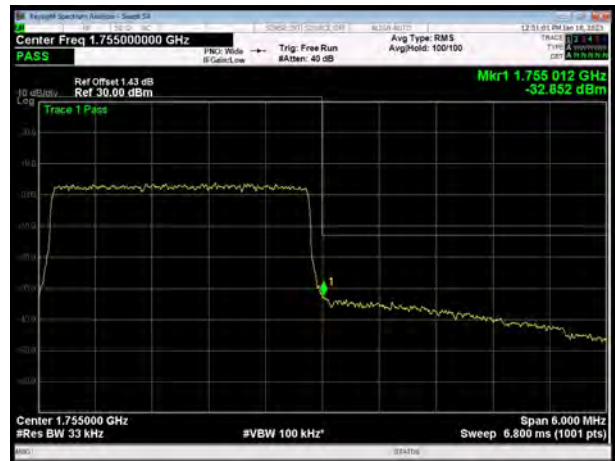
LTE Band 4 16QAM 3MHz CH-High, 1 RB



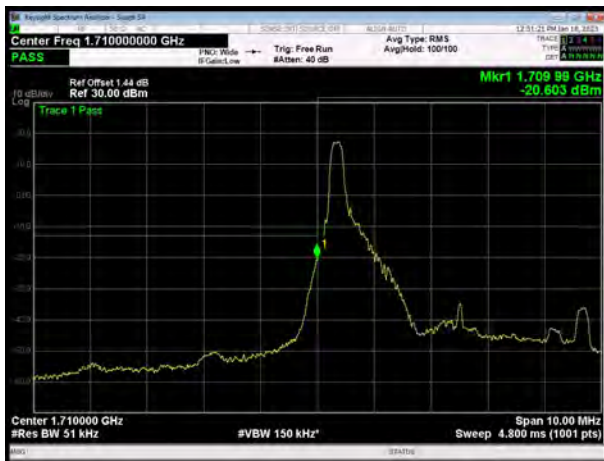
LTE Band 4 16QAM 3MHz CH-Low, 100%RB



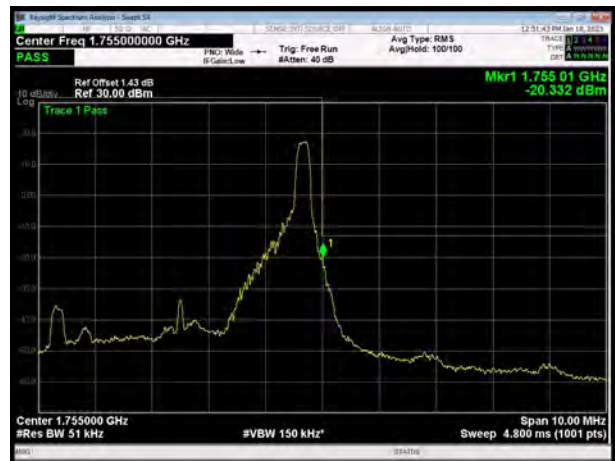
LTE Band 4 16QAM 3MHz CH-High, 100%RB



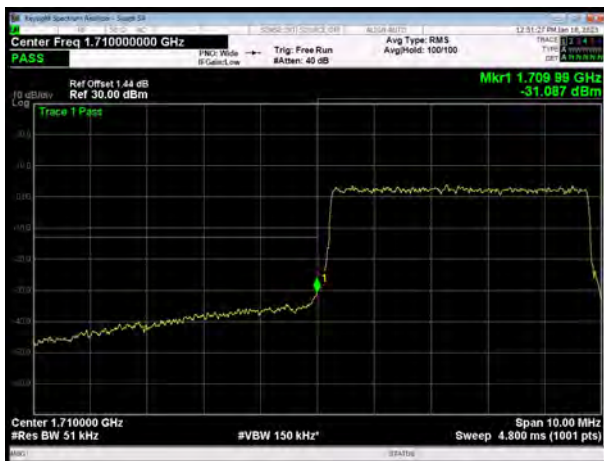
LTE Band 4 16QAM 5MHz CH-Low, 1 RB



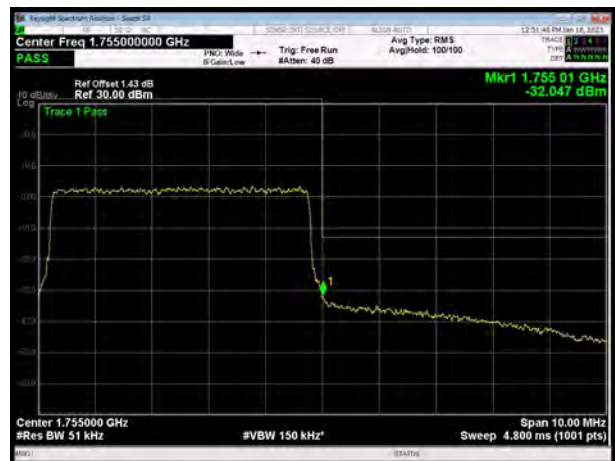
LTE Band 4 16QAM 5MHz CH-High, 1 RB



LTE Band 4 16QAM 5MHz CH-Low, 100%RB



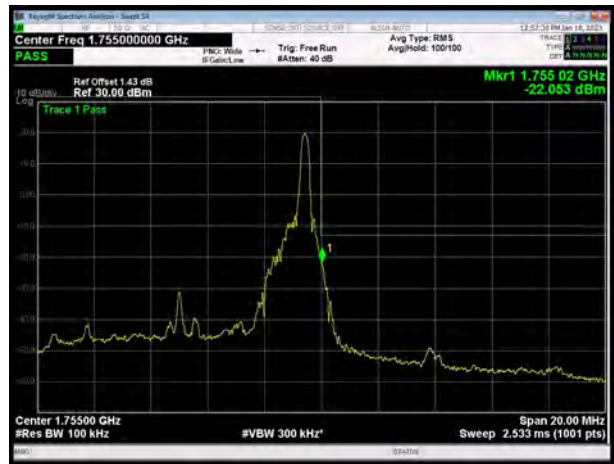
LTE Band 4 16QAM 5MHz CH-High, 100%RB



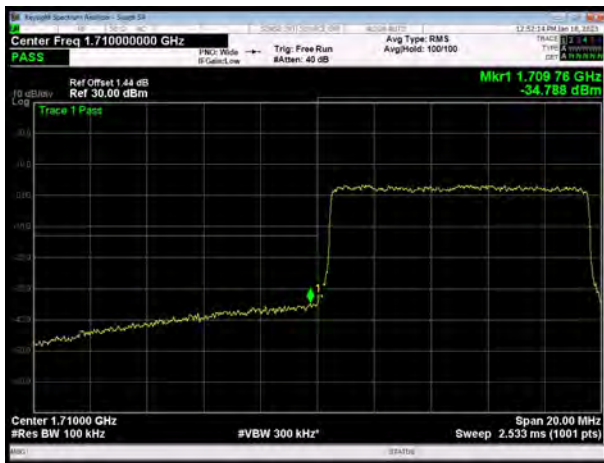
LTE Band 4 16QAM 10MHz CH-Low, 1 RB



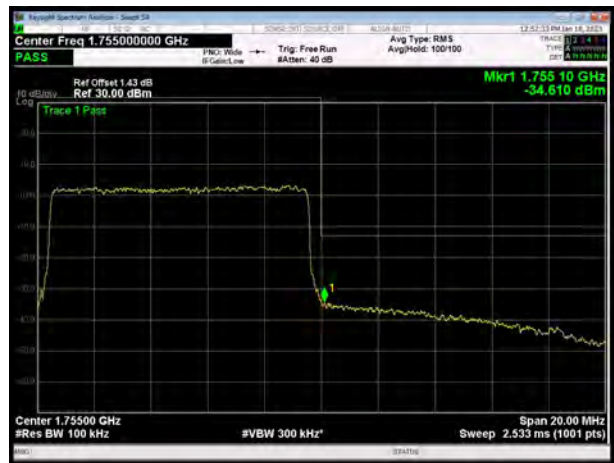
LTE Band 4 16QAM 10MHz CH-High, 1 RB



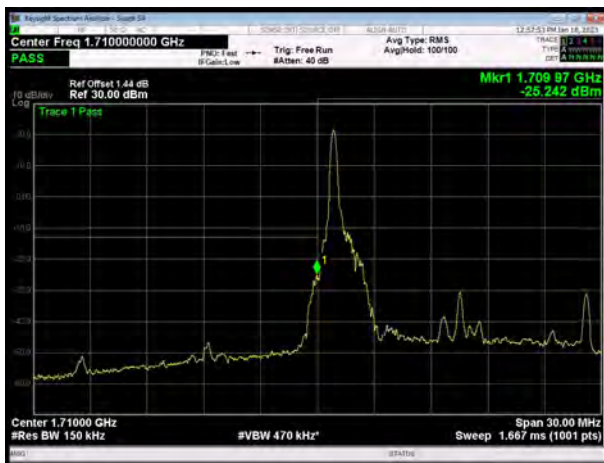
LTE Band 4 16QAM 10MHz CH-Low, 100%RB



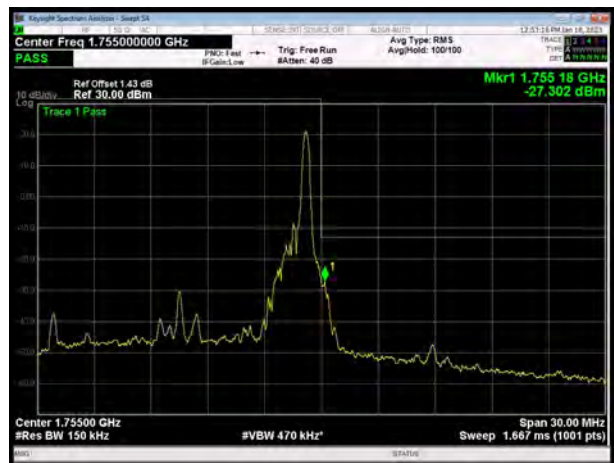
LTE Band 4 16QAM 10MHz CH-High, 100%RB



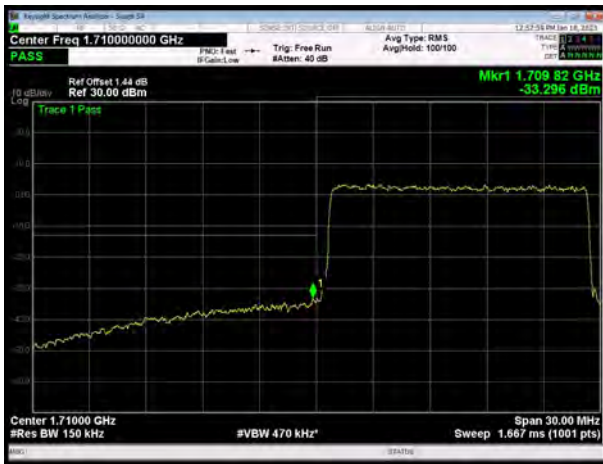
LTE Band 4 16QAM 15MHz CH-Low, 1 RB



LTE Band 4 16QAM 15MHz CH-High, 1 RB



LTE Band 4 16QAM 15MHz CH-Low, 100%RB



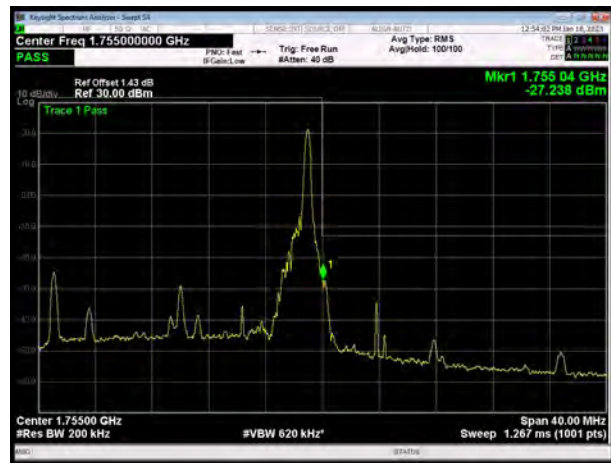
LTE Band 4 16QAM 15MHz CH-High, 100%RB



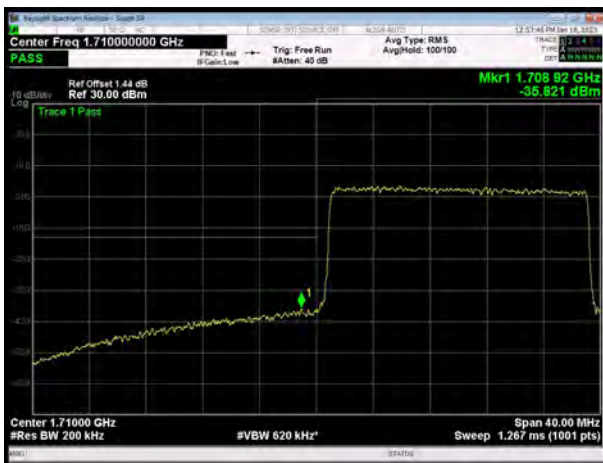
LTE Band 4 16QAM 20MHz CH-Low, 1 RB



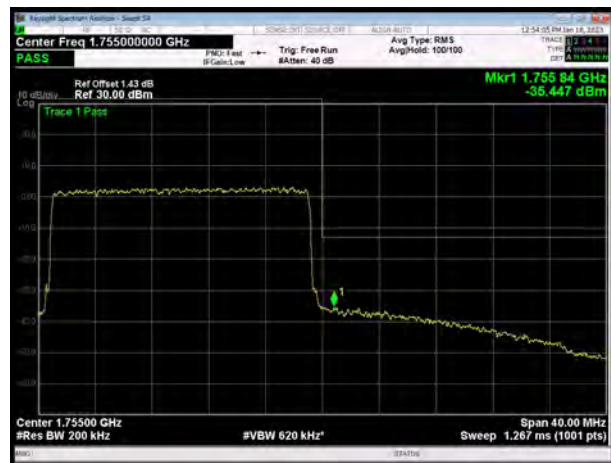
LTE Band 4 16QAM 20MHz CH-High, 1 RB



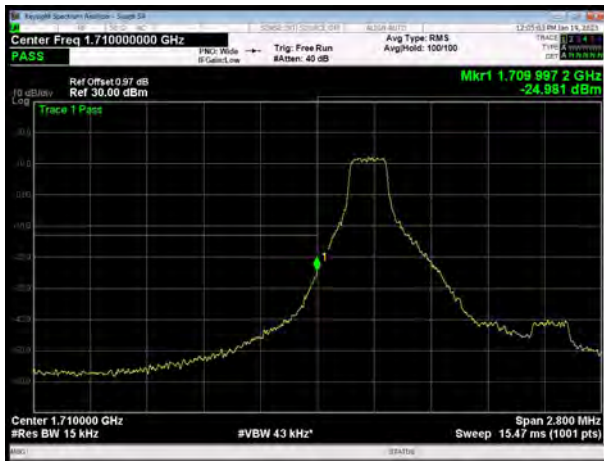
LTE Band 4 16QAM 20MHz CH-Low, 100%RB



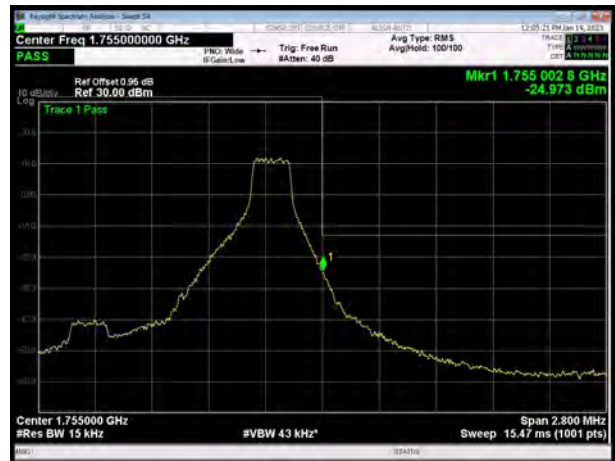
LTE Band 4 16QAM 20MHz CH-High, 100%RB



LTE Band 4 64QAM 1.4MHz CH-Low, 1 RB



LTE Band 4 64QAM 1.4MHz CH-High, 1 RB



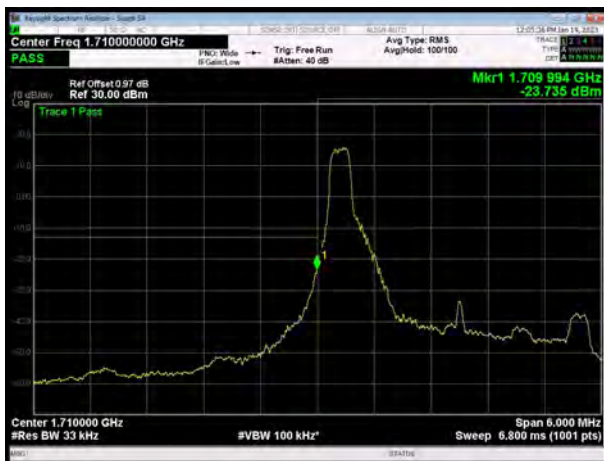
LTE Band 4 64QAM 1.4MHz CH-Low, 100%RB



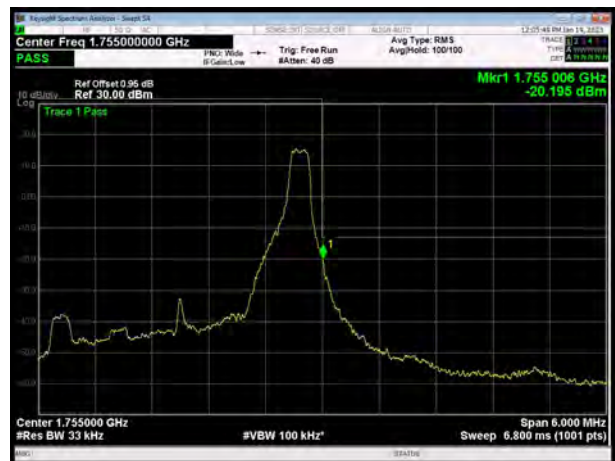
LTE Band 4 64QAM 1.4MHz CH-High, 100%RB



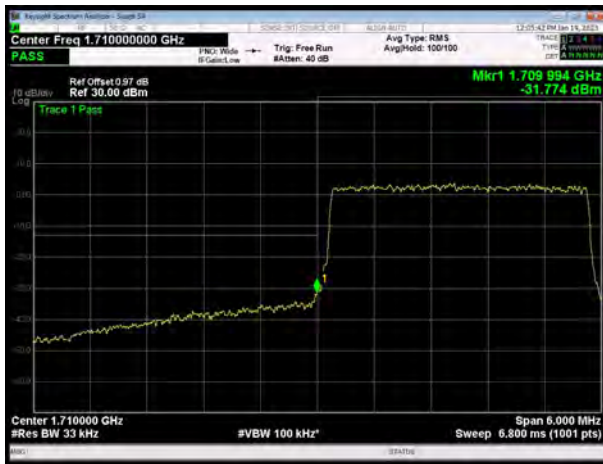
LTE Band 4 64QAM 3MHz CH-Low, 1 RB



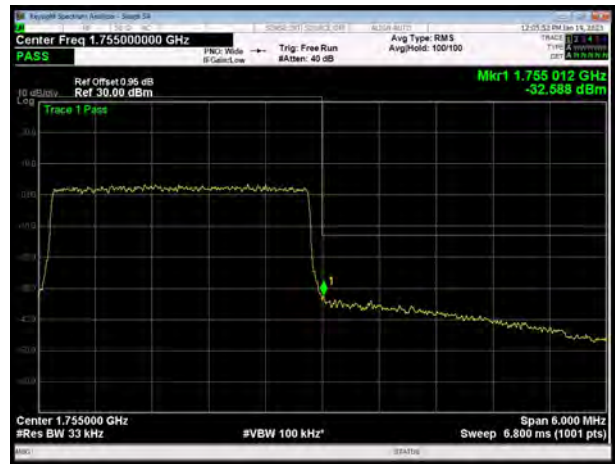
LTE Band 4 64QAM 3MHz CH-High, 1 RB



LTE Band 4 64QAM 3MHz CH-Low, 100%RB



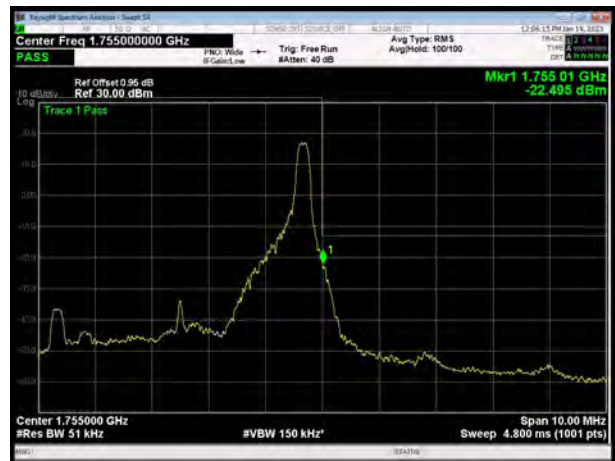
LTE Band 4 64QAM 3MHz CH-High, 100%RB



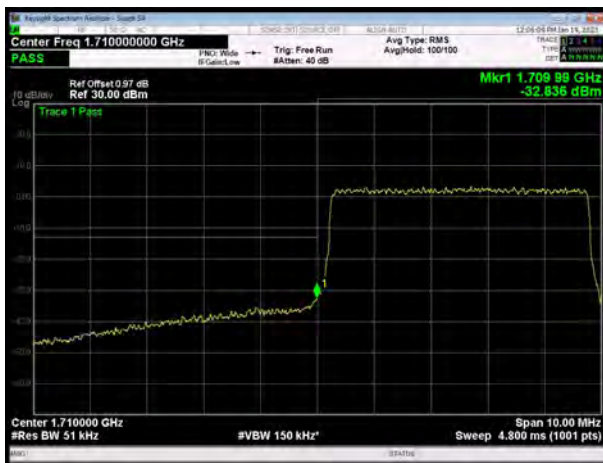
LTE Band 4 64QAM 5MHz CH-Low, 1 RB



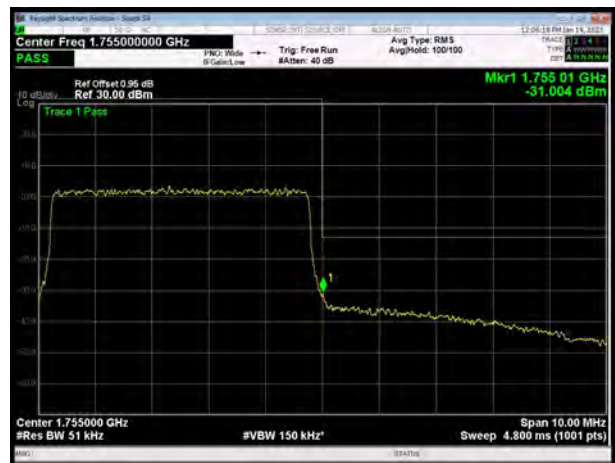
LTE Band 4 64QAM 5MHz CH-High, 1 RB



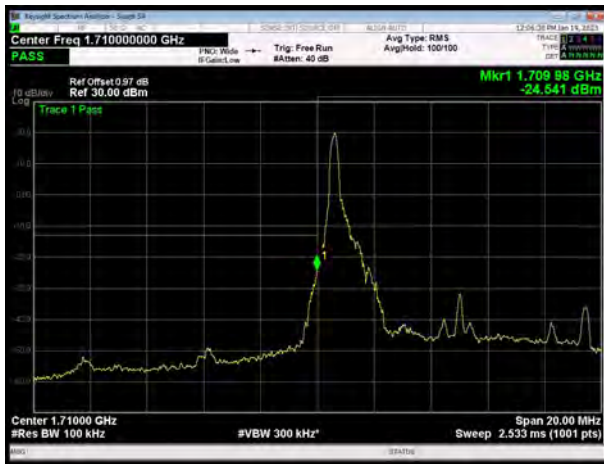
LTE Band 4 64QAM 5MHz CH-Low, 100%RB



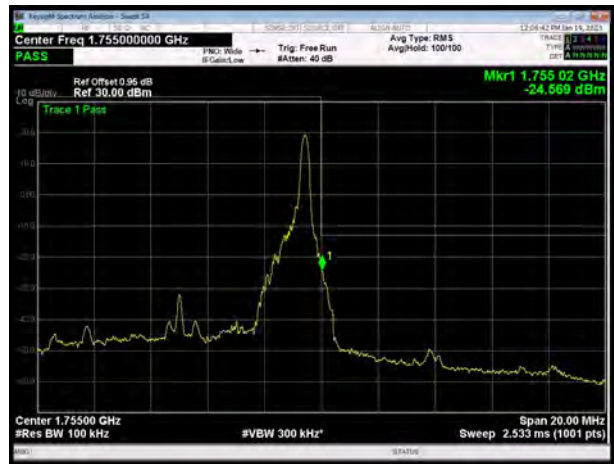
LTE Band 4 64QAM 5MHz CH-High, 100%RB



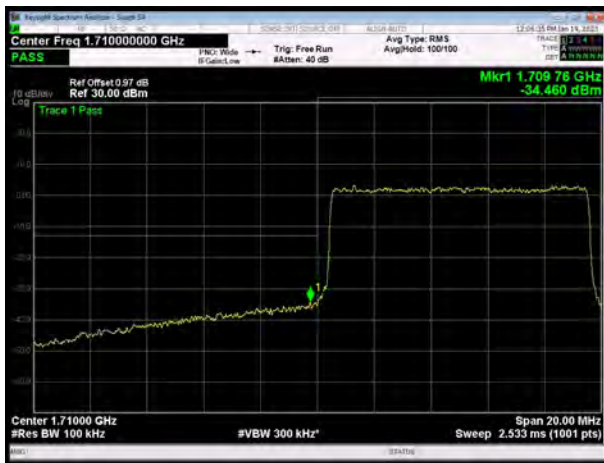
LTE Band 4 64QAM 10MHz CH-Low, 1 RB



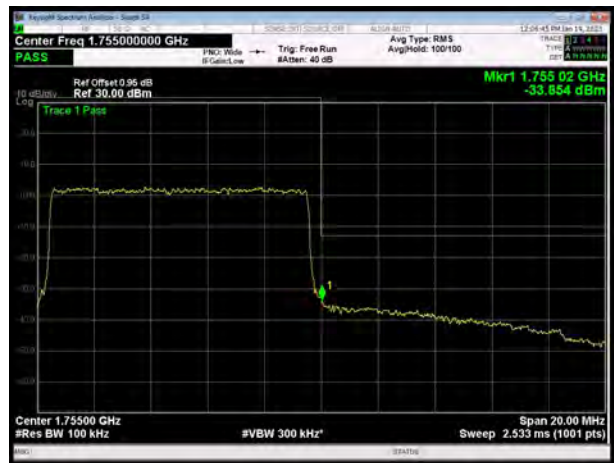
LTE Band 4 64QAM 10MHz CH-High, 1 RB



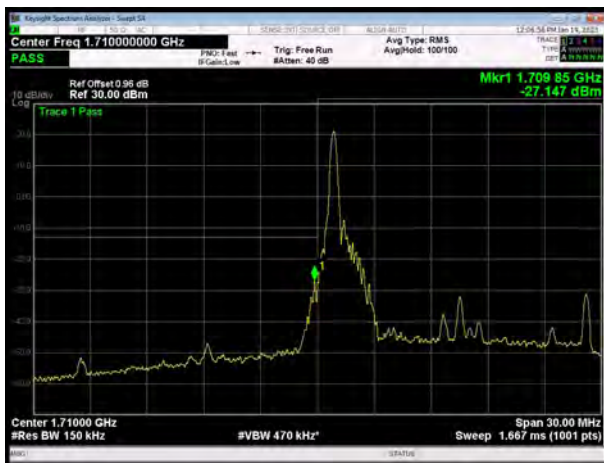
LTE Band 4 64QAM 10MHz CH-Low, 100%RB



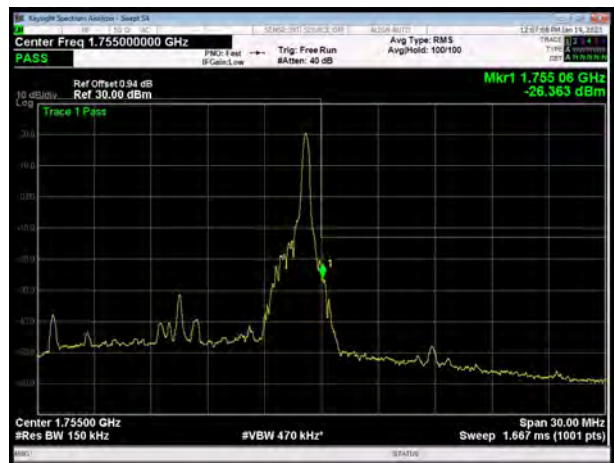
LTE Band 4 64QAM 10MHz CH-High, 100%RB



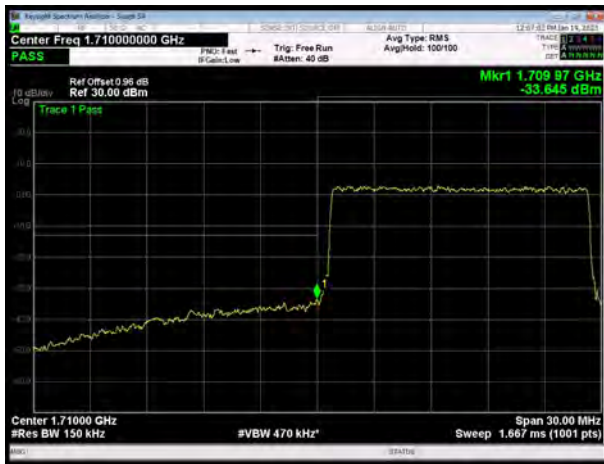
LTE Band 4 64QAM 15MHz CH-Low, 1 RB



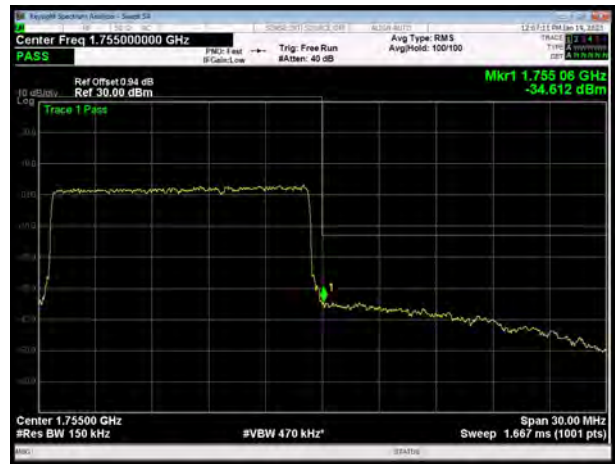
LTE Band 4 64QAM 15MHz CH-High, 1 RB



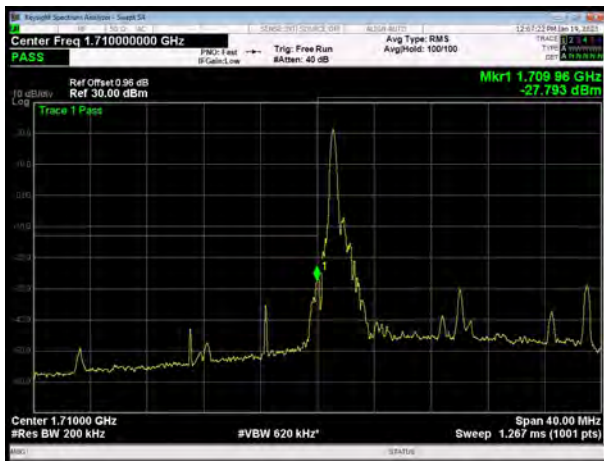
LTE Band 4 64QAM 15MHz CH-Low, 100%RB



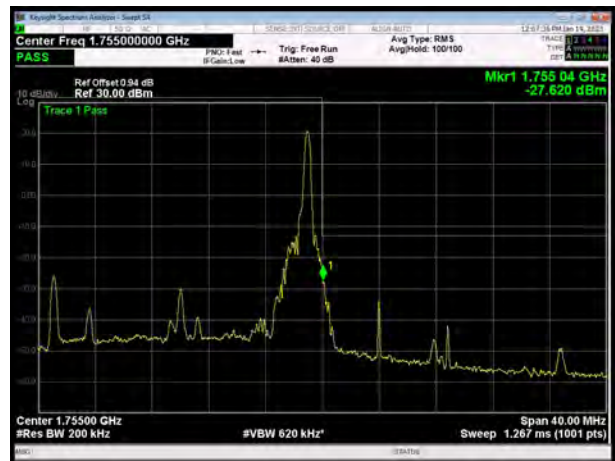
LTE Band 4 64QAM 15MHz CH-High, 100%RB



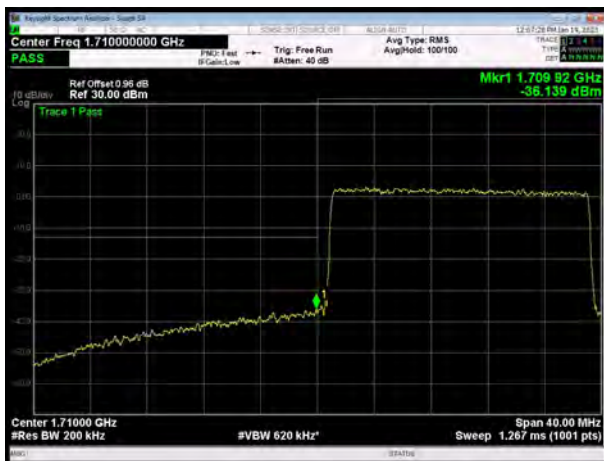
LTE Band 4 64QAM 20MHz CH-Low, 1 RB



LTE Band 4 64QAM 20MHz CH-High, 1 RB



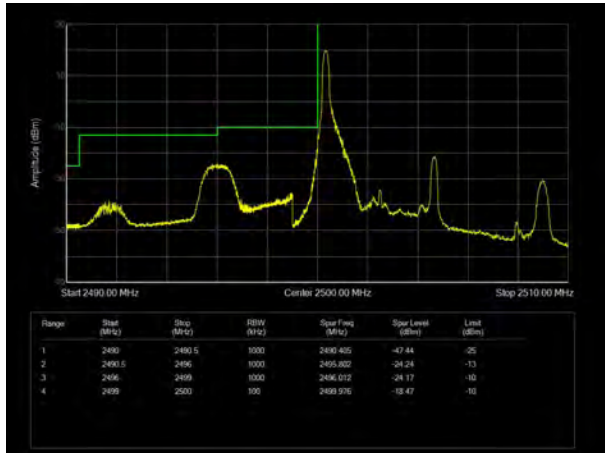
LTE Band 4 64QAM 20MHz CH-Low, 100%RB



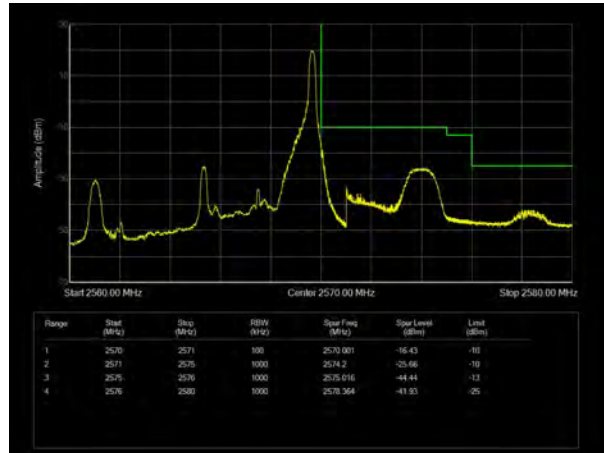
LTE Band 4 64QAM 20MHz CH-High, 100%RB



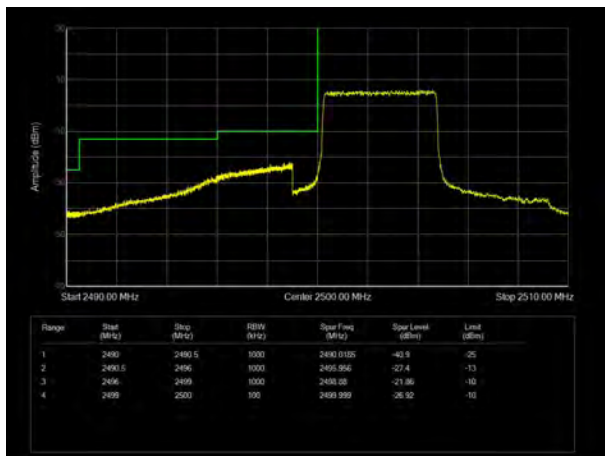
LTE Band 7 QPSK 5MHz CH-Low, 1 RB



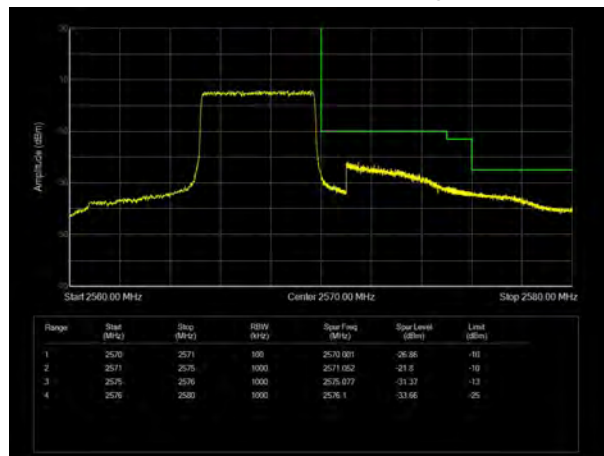
LTE Band 7 QPSK 5MHz CH-High, 1 RB



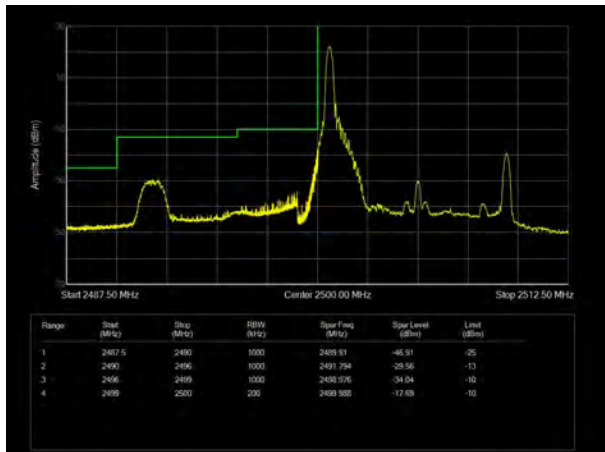
LTE Band 7 QPSK 5MHz CH-Low, 100%RB



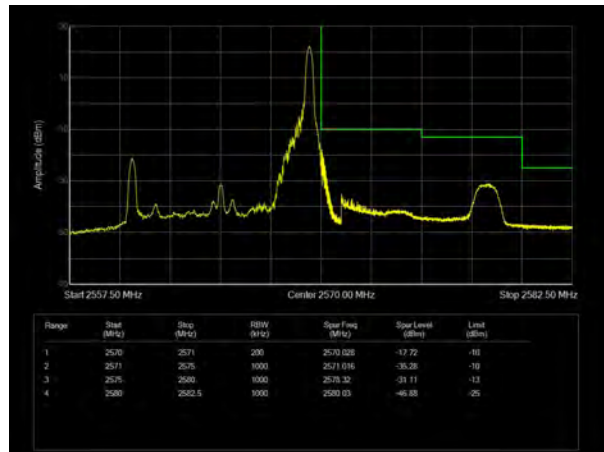
LTE Band 7 QPSK 5MHz CH-High, 100%RB



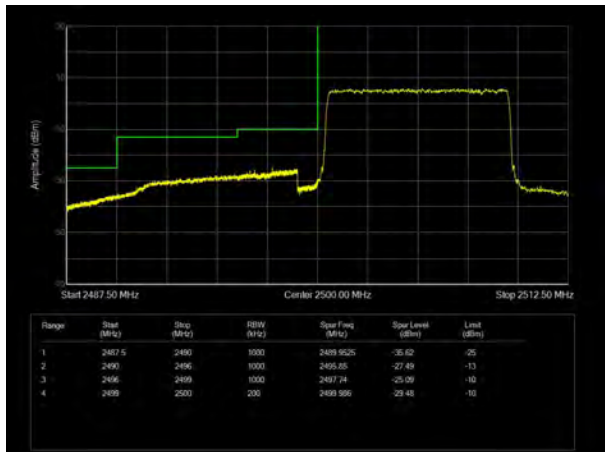
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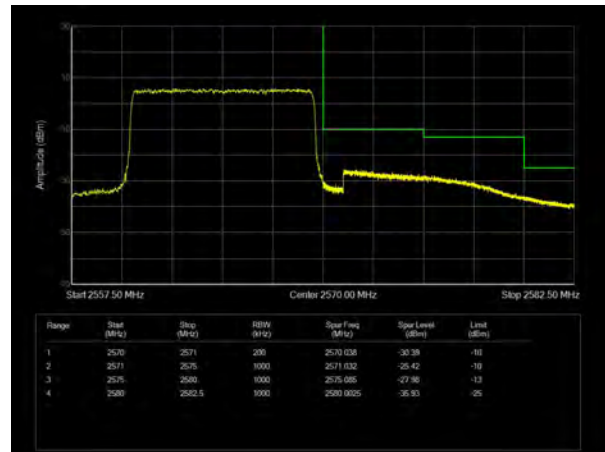
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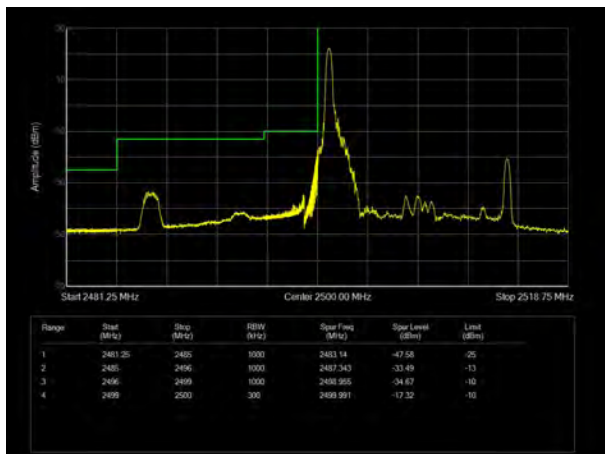
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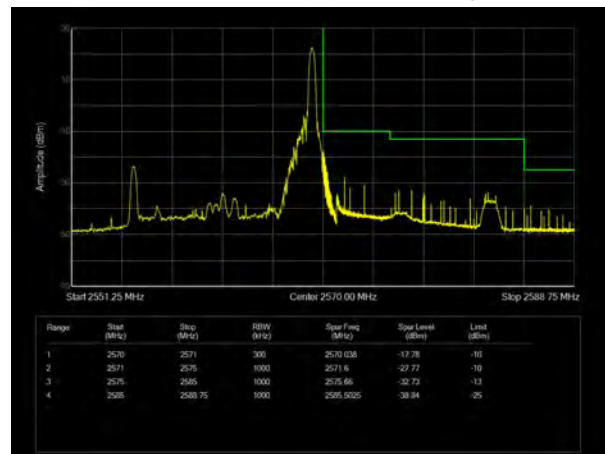
LTE Band 7 QPSK 10MHz CH-High, 100%RB



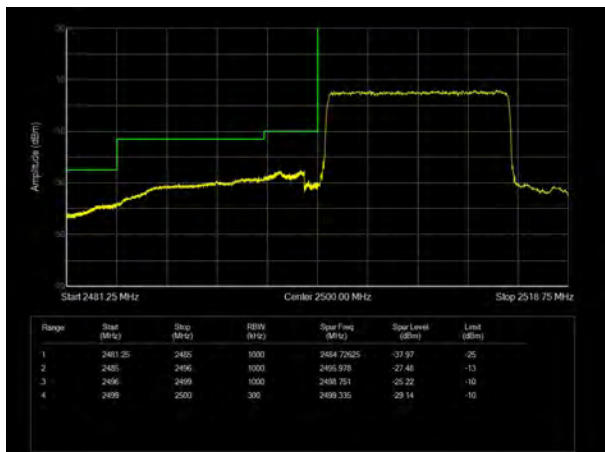
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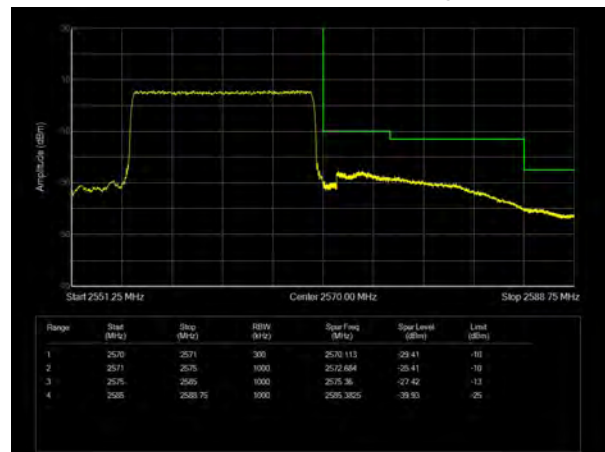
LTE Band 7 QPSK 15MHz CH-High, 1 RB



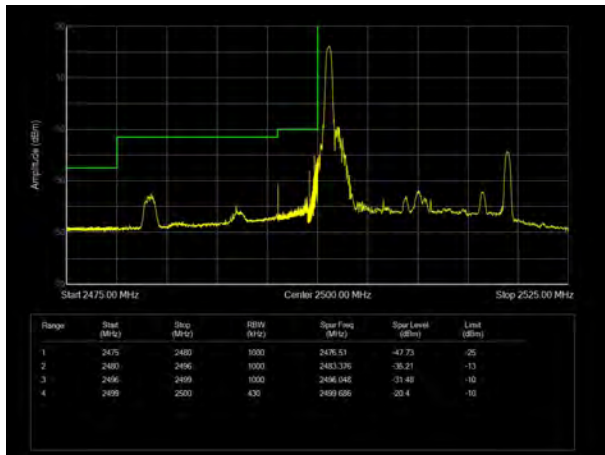
LTE Band 7 QPSK 15MHz CH-Low, 100%RB



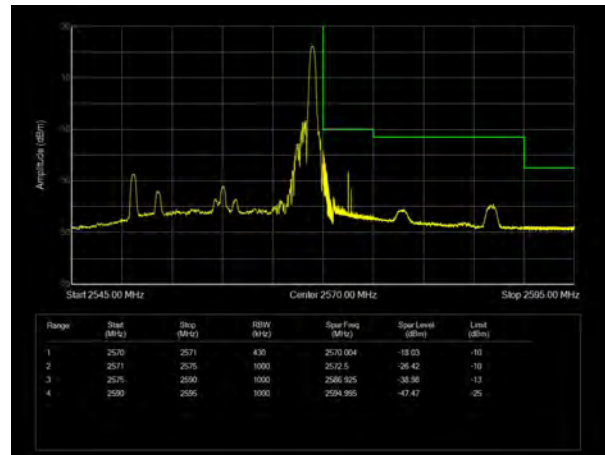
LTE Band 7 QPSK 15MHz CH-High, 100%RB



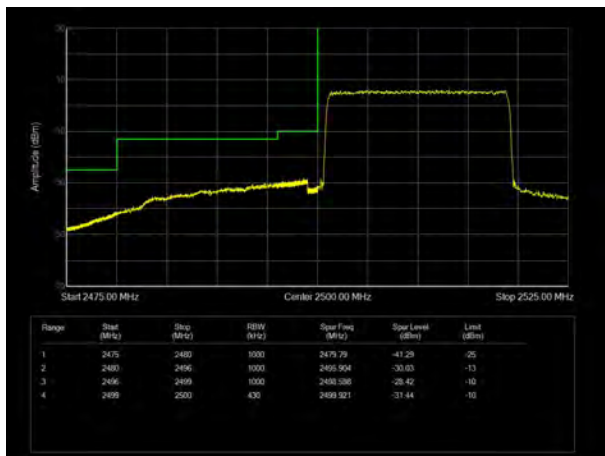
LTE Band 7 QPSK 20MHz CH-Low, 1 RB



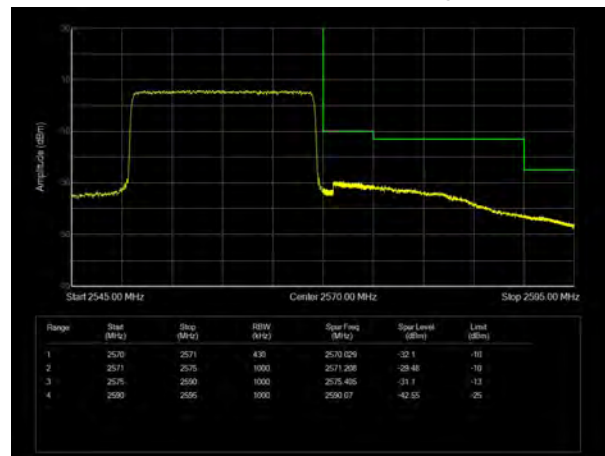
LTE Band 7 QPSK 20MHz CH-High, 1 RB



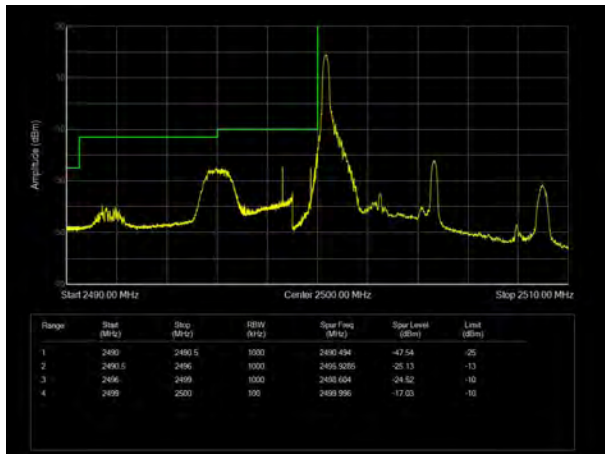
LTE Band 7 QPSK 20MHz CH-Low, 100%RB



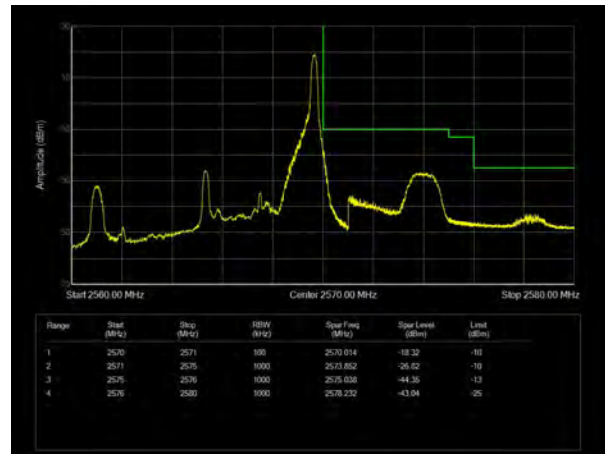
LTE Band 7 QPSK 20MHz CH-High, 100%RB



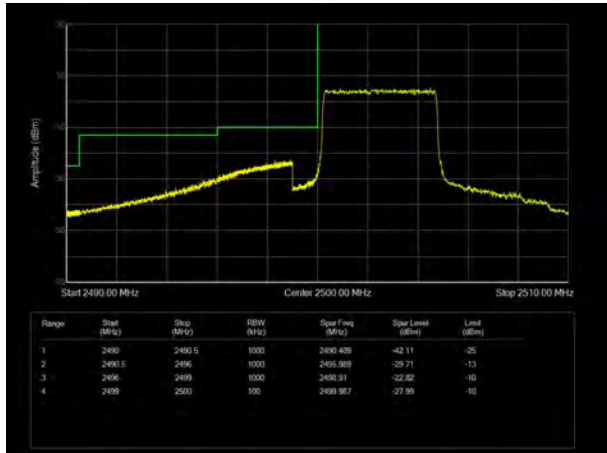
LTE Band 7 16QAM 5MHz CH-Low, 1 RB



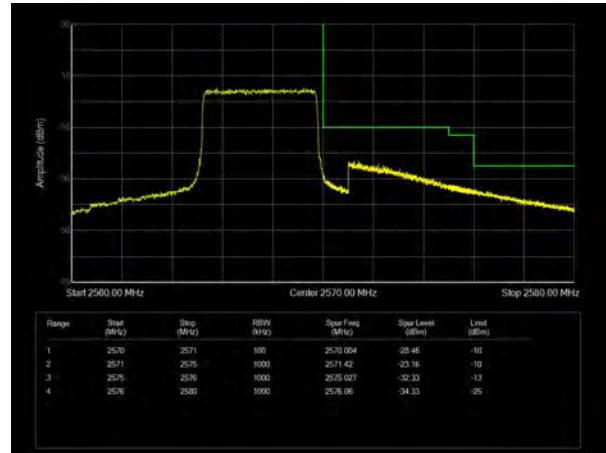
LTE Band 7 16QAM 5MHz CH-High, 1 RB



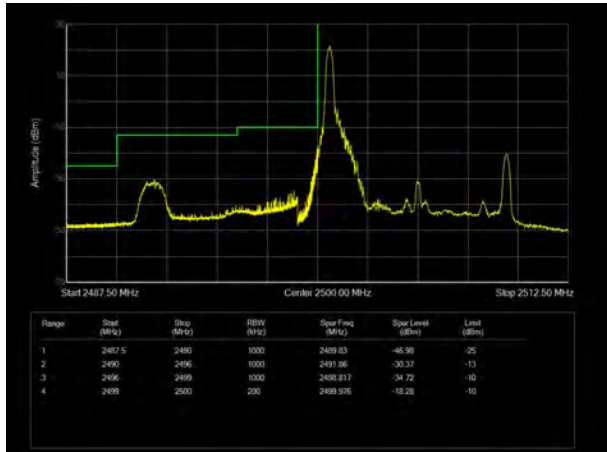
LTE Band 7 16QAM 5MHz CH-Low, 100%RB



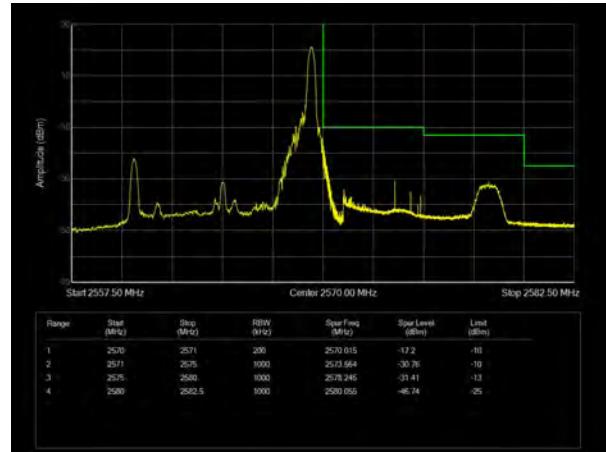
LTE Band 7 16QAM 5MHz CH-High, 100%RB



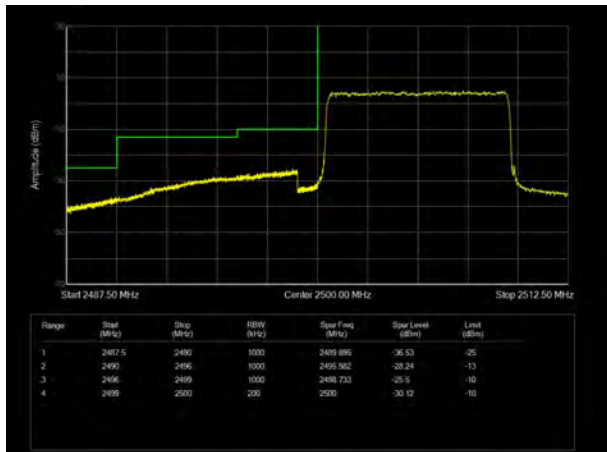
LTE Band 7 16QAM 10MHz CH-Low, 1 RB



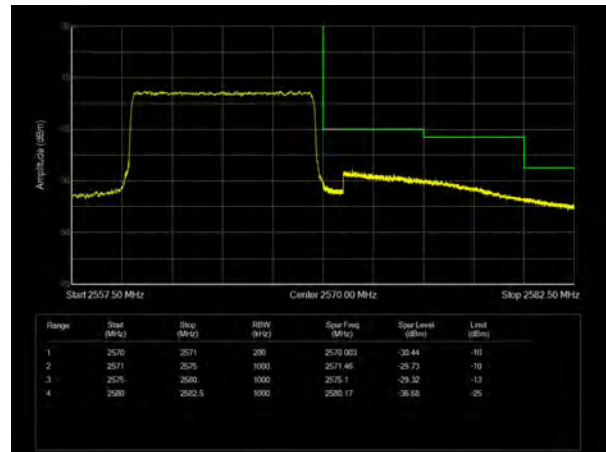
LTE Band 7 16QAM 10MHz CH-High, 1 RB



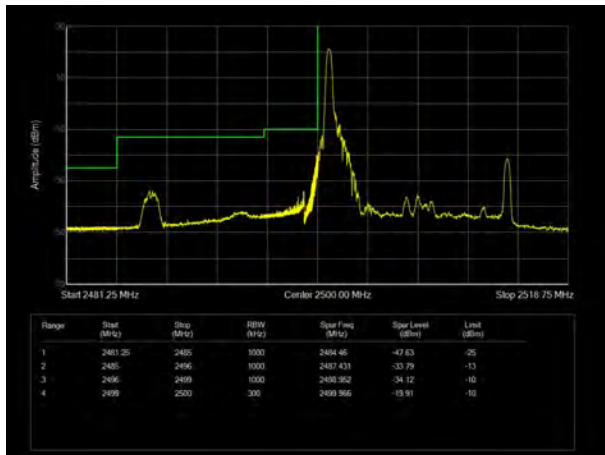
LTE Band 7 16QAM 10MHz CH-Low, 100%RB



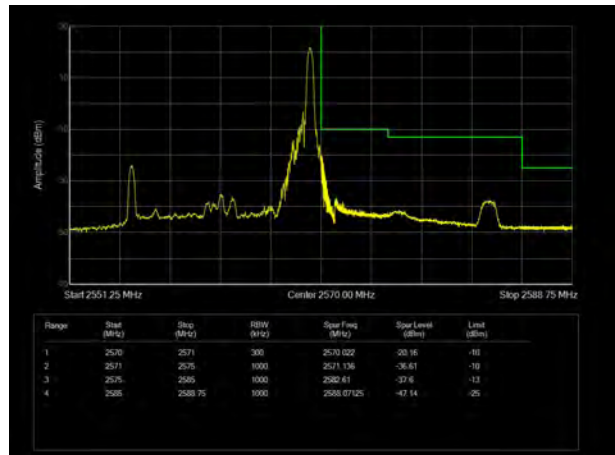
LTE Band 7 16QAM 10MHz CH-High, 100%RB



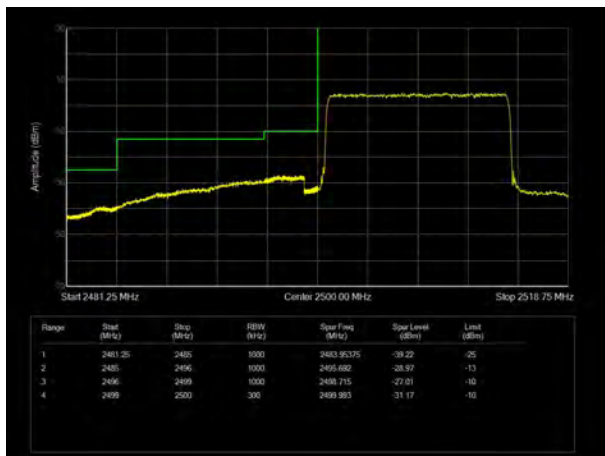
LTE Band 7 16QAM 15MHz CH-Low, 1 RB



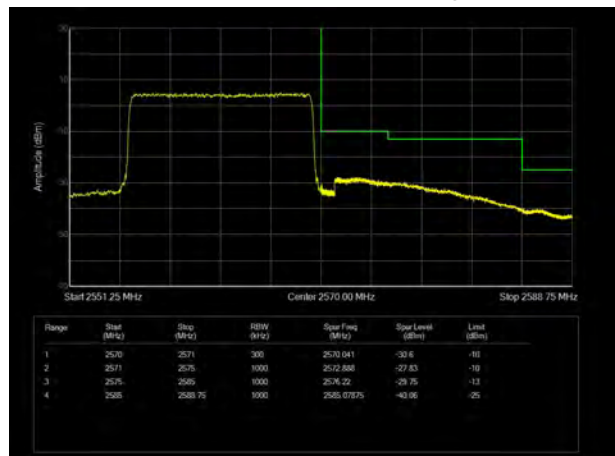
LTE Band 7 16QAM 15MHz CH-High, 1 RB



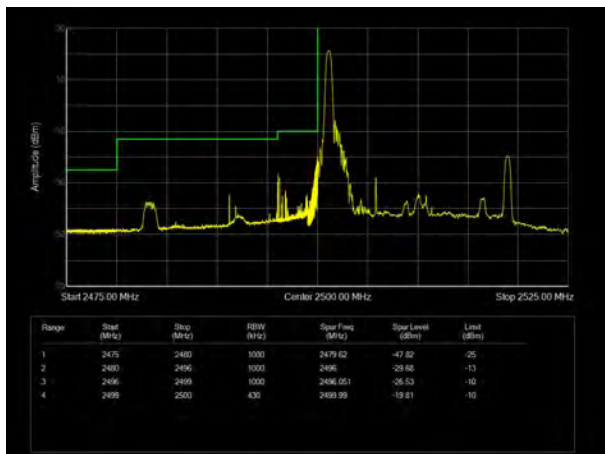
LTE Band 7 16QAM 15MHz CH-Low, 100%RB



LTE Band 7 16QAM 15MHz CH-High, 100%RB



LTE Band 7 16QAM 20MHz CH-Low, 1 RB



LTE Band 7 16QAM 20MHz CH-High, 1 RB

