



RF TEST REPORT

Applicant ZTE Corporation
FCC ID SRQ-Z7540
Product 5G NR Multi-Mode Digital Mobile Phone
Model Z7540
Report No. R2202A0144-R3
Issue Date March 16, 2022

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

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TABLE OF CONTENT

1	Test Laboratory	4
1.1	Notes of the Test Report	4
1.2.	Test facility	4
1.3	Testing Location	4
2	General Description of Equipment under Test	5
2.1	Applicant and Manufacturer Information	5
2.2	General information	5
3	Applied Standards	7
4	Test Configuration	8
5	Test Case	12
5.1	RF Power Output and Effective Isotropic Radiated Power	12
5.2	Occupied Bandwidth	14
5.3	Band Edge Compliance	15
5.4	Peak-to-Average Power Ratio (PAPR)	17
5.5	Frequency Stability	18
5.6	Spurious Emissions at Antenna Terminals	19
5.7	Radiates Spurious Emission	21
6	Test Results	24
6.1	RF Power Output and Effective Isotropic Radiated Power	24
6.2	Occupied Bandwidth	57
6.3	Band Edge Compliance	125
6.4	Peak-to-Average Power Ratio (PAPR)	199
6.5	Frequency Stability	209
6.6	Spurious Emissions at Antenna Terminals	232
6.7	Radiates Spurious Emission	266
7	Main Test Instruments	291
	ANNEX A: The EUT Appearance	292
	ANNEX B: Test Setup Photos	293



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)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	27.53(h) /27.53(g) /27.53(m)	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)	PASS
7	Radiates Spurious Emission	2.1053 /27.53(h) /27.53(g) /27.53(m)	PASS
Date of Testing: February 14, 2022 ~ March 16, 2022			
Date of Sample Received: February 14, 2022			
Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			



1 Test Laboratory

1.1 Notes of the Test Report

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

1.2. Test facility

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

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

A2LA (Certificate Number: 3857.01)

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

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China
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2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	ZTE Corporation
Applicant address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China
Manufacturer	ZTE Corporation
Manufacturer address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

2.2 General information

EUT Description		
Model	Z7540	
IMEI	866787060002008	
Hardware Version	Z7540HW1.0	
Software Version	Z7540_CCV1.0.0B02	
Power Supply	Battery / AC adapter	
Antenna Type	Internal Antenna	
Antenna Gain	WCDMA Band IV	-0.27 dBi
	LTE Band 4	-0.27 dBi
	LTE Band 12	-3.53 dBi
	LTE Band 41	0.93 dBi
	LTE Band 66	-0.27 dBi
	LTE Band 71	-4.46 dBi
	NR n41	0.93 dBi
	NR n66	-0.74 dBi
	NR n71	-4.46 dBi
Test Mode(s)	WCDMA Band	WCDMA Band IV
	LTE Band	LTE Band 4/12/41/66/71
	CA Band	CA_41C
	SA Band	NR n41/n66/n71;
	NSA Band	DC_2A_n41A/DC_66A_n41A DC_2A_n66A/DC_5A_n66A/DC_12A_n66A DC_2A_n71A/DC_66A_n71A;
Test Modulation	(WCDMA) BPSK, QPSK; (LTE)QPSK, 16QAM, 64QAM; (NR) CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM; DFT-s OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	
HSDPA UE Category	14	
HSUPA UE Category	7	
LTE Category	13	



Maximum E.I.R.P./ E.R.P.	WCDMA Band IV	21.09 dBm	
	LTE Band 4	23.06 dBm	
	LTE Band 12	17.79 dBm	
	LTE Band 41	24.46 dBm	
	LTE Band 66	23.16 dBm	
	LTE Band 71	17.17 dBm	
	CA_41C	25.31 dBm	
	NR n41	24.59 dBm	
	DC_66A_n41A	24.56 dBm	
	NR n66	22.37 dBm	
	DC_5A_n66A	22.53 dBm	
	NR n71	16.44 dBm	
	DC_66A_n71A	16.55 dBm	
Rated Power Supply Voltage	3.85V		
Operating Voltage	Minimum: 3.4V Maximum: 4.4V		
Operating Temperature	Lowest: -10°C Highest: +60°C		
Testing Temperature	Lowest: -30°C Highest: +60°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 12	699 ~ 716	729 ~ 746
	LTE Band 41	2496 ~ 2690	2496 ~ 2690
	LTE Band 66	1710 ~ 1780	2110 ~ 2180
	LTE Band 71	663 ~ 698	617 ~ 652
	NR n41	2496~2690	2496~2690
	NR n66	1710~1780	2110 ~ 2180
	NR n71	663 ~ 698	617 ~ 652
EUT Accessory			
Adapter 1	Manufacturer: Shenzhen Ruijing Industrial Co Ltd. Model: STC-A51030A2-Z		
Adapter 2	Manufacturer: Jiangsu Chenyang Electron Co., Ltd. Model: STC-A51030A2-Z		
Battery	Manufacturer: SCUD (Fujian) Electronics Co., LTD. Model: Li3949T44P8h906450		
USB Cable 1	Manufacturer: kingpower-tech Model: USB-TC20-W-100-M-L-HF		
USB Cable 2	Manufacturer: Shenzhen Luxshare Precision Industry Co.,Ltd. Model: USB-TC20-W-100-M-L-HF		
<p>Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.</p> <p>2. There is more than one Adapter / USB cable, each one should be applied throughout the compliance test respectively, and however, only the worst case (Adapter 1 / USB Cable 2) will be recorded in this report.</p>			



3 Applied Standards

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

Test standards:

FCC CFR47 Part 27C (2021)

FCC CFR47 Part 2 (2021)

Reference standard:

ANSI C63.26 (2015)

KDB 971168 D01 Power Meas License Digital Systems v03r01

4 Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (X axis, Vertical polarization for WCDMA; Z axis, Vertical polarization for LTE & NR; X axis, Horizontal polarization for NSA & CA) 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 / NR is set based on the maximum RF Output Power.

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

Test modes are chosen to be reported as the worst case configuration below:

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



Test modes are chosen to be reported as the worst case configuration below for LTE Band

4/12/41/66/71

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 12	O	O	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 41	-	-	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 71	-	-	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 12	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 41	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 71	-	-	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 4	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 12	O	O	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 41	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 66	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 71	-	-	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 12	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 41	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 71	-	-	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 4	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 12	O	O	O	O	-	-	O	O	O	-	-	-	O	-
	LTE 41	-	-	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 66	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 71	-	-	O	O	O	O	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	LTE 4	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 12	O	O	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 41	-	-	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 66	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 71	-	-	O	O	O	O	O	-	O	-	-	O	O	O
Radiates Spurious Emission	LTE 4	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 12	O	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 41	-	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 66	-	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 71	O	-	O	-	-	O	O	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.														



Test modes are chosen to be reported as the worst case configuration below for NR n41/NR n66/ NR n71/ DC_2A_n41A/DC_66A_n41A / DC_2A_n66A / DC_5A_n66A / DC_12A_n66A / DC_2A_n71A / DC_66A_n71A:

Test items	Mode	Bandwidth (MHz)									Modulation					RB			Test Channel		
		5	10	15	20	25	30	40	50	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	NR n41	-	0	0	0	-	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0
	DC_2A_n41A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A_n41A	-	0	0	0	-	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0
	NR n66	0	0	0	0	0	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0
	DC_2A-n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_5A_n66A	0	0	0	0	0	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0
	DC_12A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NR n71	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0
	DC_2A_n71A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC_66A_n71A	0	0	0	0	-	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	
Occupied Bandwidth	NR n41	-	-	-	-	-	0	-	-	-	0	0	0	0	0	-	-	0	0	0	0
	DC_2A_n41A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A_n41A	-	-	-	-	-	0	-	-	-	0	0	0	0	0	-	-	0	0	0	0
	NR n66	-	-	-	-	-	0	-	-	-	0	0	0	0	0	-	-	0	0	0	0
	DC_2A-n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_5A_n66A	-	-	-	-	-	0	-	-	-	0	0	0	0	0	-	-	0	0	0	0
	DC_12A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NR n71	-	-	-	0	-	-	-	-	-	0	0	0	0	0	-	-	0	0	0	0
	DC_2A_n71A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC_66A_n71A	-	-	-	0	-	-	-	-	-	0	0	0	0	0	-	-	0	0	0	0	
Band Edge Compliance	NR n41	-	-	-	-	-	0	-	-	-	0	0	0	0	0	0	-	0	0	-	0
	DC_2A_n41A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A_n41A	-	-	-	-	-	0	-	-	-	0	0	0	0	0	0	-	0	0	-	0
	NR n66	-	-	-	-	-	0	-	-	-	0	0	0	0	0	0	-	0	0	-	0
	DC_2A-n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_5A_n66A	-	-	-	-	-	0	-	-	-	0	0	0	0	0	0	-	0	0	-	0
	DC_12A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NR n71	-	-	-	0	-	-	-	-	-	0	0	0	0	0	0	-	0	0	-	0
	DC_2A_n71A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC_66A_n71A	-	-	-	0	-	-	-	-	-	0	0	0	0	0	0	-	0	0	-	0	
Peak-to-Average Power Ratio	NR n41	-	-	-	-	-	0	-	-	-	0	0	0	0	0	-	-	0	0	0	0
	DC_2A_n41A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A_n41A	-	-	-	-	-	0	-	-	-	0	0	0	0	0	-	-	0	0	0	0
	NR n66	-	-	-	-	-	0	-	-	-	0	0	0	0	0	-	-	0	0	0	0



	DC_2A-n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_5A_n66A					O				O	O	O	O	O			O	O	O	O
	DC_12A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NR n71	-	-	-	O					O	O	O	O	O			O	O	O	O
	DC_2A_n71A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A_n71A	-	-	-	O					O	O	O	O	O			O	O	O	O
Frequency Stability	NR n41	-	O	O	O	-	O			-	O	O	O	O			-	-	O	-
	DC_2A_n41A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A_n41A	-	O	O	O	-	O			-	O	O	O	O			-	-	-	O
	NR n66	O	O	O	O	O	O			-	O	O	O	O			-	-	-	O
	DC_2A-n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_5A_n66A	O	O	O	O	O	O			-	O	O	O	O			-	-	-	O
	DC_12A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NR n71	O	O	O	O					-	O	O	O	O			-	-	-	O
	DC_2A_n71A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A_n71A	O	O	O	O	-	O			-	O	O	O	O			-	-	-	O
Spurious Emissions at Antenna Terminals	NR n41	-	-	-	-	-	O			-	O	O	O	O	O			O	O	O
	DC_2A_n41A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A_n41A	-	-	-	-	-	O			-	O	O	O	O	O			O	O	O
	NR n66	-	-	-	-	-	O			-	O	O	O	O	O			O	O	O
	DC_2A-n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_5A_n66A						O			-	O	O	O	O	O			O	O	O
	DC_12A_n66A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NR n71	-	-	-	O					-	O	O	O	O	O			O	O	O
	DC_2A_n71A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DC_66A_n71A	-	-	-	O					-	O	O	O	O	O			-	-	O
Radiates Spurious Emission	NR n41	-	O							O	O						O			O
	DC_2A_n41A	-	O	O	O					-	O						O			O
	DC_66A_n41A	-	O	O	O					-	O						O			O
	NR n66	O		O						O							O			O
	DC_2A-n66A	O		O	O					-	O						O			O
	DC_5A_n66A	O		O	O					-	O						O			O
	DC_12A_n66A	O		O	O					-	O						O			O
	NR n71	O		O	O					-	O						O			O
	DC_2A_n71A	-	O	O	O					-	O						O			O
	DC_66A_n71A	-	O	O	O					-	O						O			O

Note: 1. The mark "O" means that this configuration is chosen for testing.
 2. The mark "-" means that this configuration is not testing.
 3. Sub 6GHz operates using 15kHz Subcarrier Spacing with both CP-OFDM and DFT-s OFDM waveforms. The band supports PI/2 BPSK ,QPSK, 16QAM, 64QAM, and 256QAM modulation. The test data provided in this report represents the worst case configurations.

5 Test Case

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

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

Methods of Measurement

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

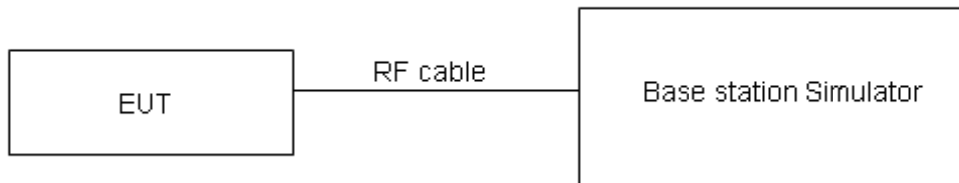
ERP can then be calculated as follows:

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

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

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

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

Rule Part 27.50(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.”

Part 27.50(c)(10)Limit	≤ 3 W (34.77 dBm)
Part 27.50(d)(4)Limit	≤ 1 W (30 dBm)
Part 27.50(h)(2) Limit	≤ 2 W (33 dBm)



Measurement Uncertainty

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

Test Results

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

5.2 Occupied Bandwidth

Ambient condition

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

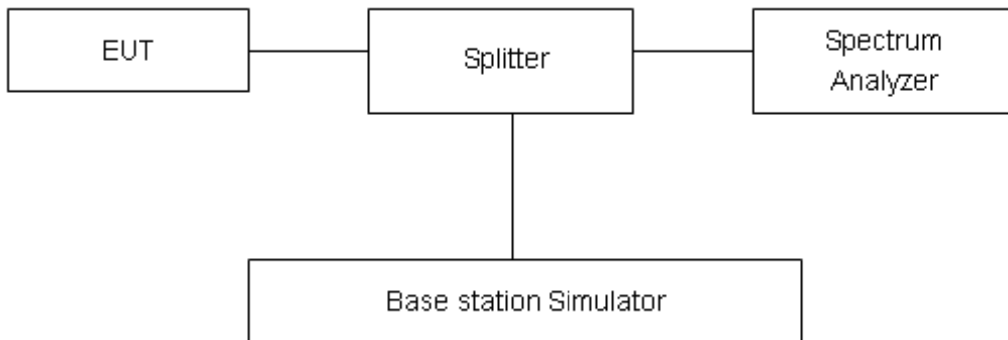
Method of Measurement

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

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

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

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Measurement Uncertainty

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

Test Results

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

5.3 Band Edge Compliance

Ambient condition

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

Method of Measurement

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

The testing follows KDB 971168 D01 v03r01 Section 6.0

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

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

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

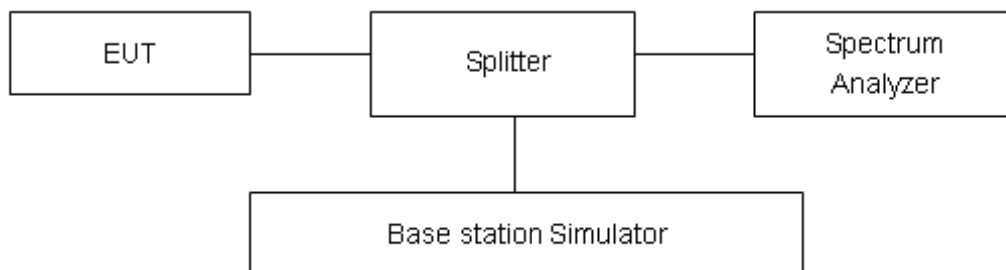
on spectrum analyzer.

Set spectrum analyzer with RMS detector.

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

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

Test Setup



Limits

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

Rule Part 27.53(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 than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Example:

The limit line is derived from $43 + 10 \log (P)$ dB below the transmitter power P(Watts)
= P(W)- [43 + 10log(P)] (dB)
= [30 + 10log (P)] (dBm) - [43 + 10log(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

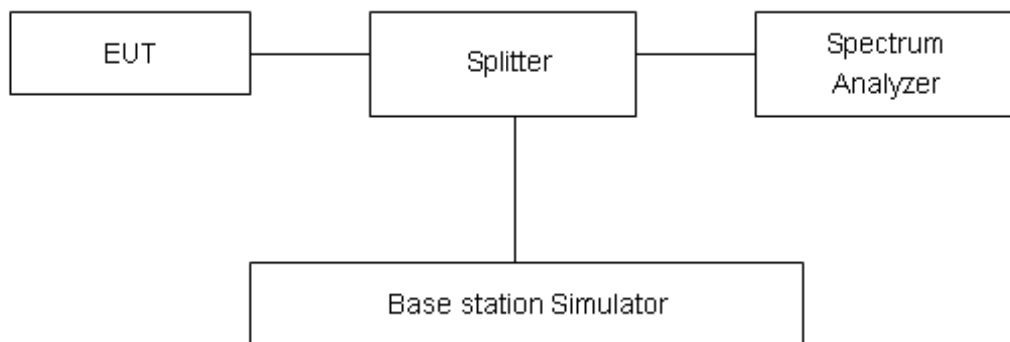
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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:

$$PAPR (dB) = Ppk (dBm) - PAvg (dBm).$$

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 +60°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 +60°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

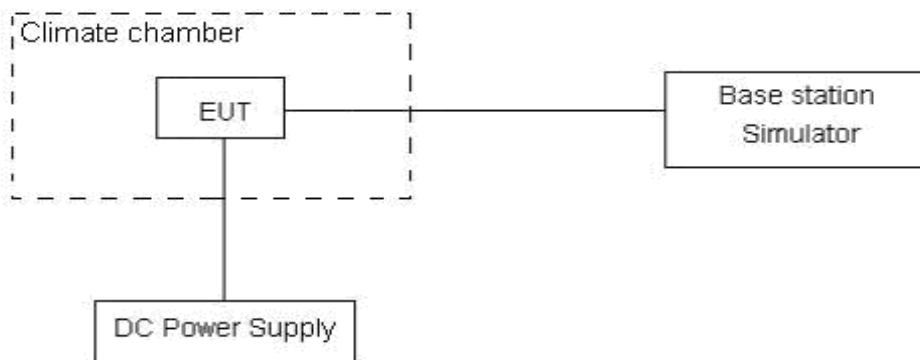
Frequency Stability (Voltage Variation)

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 3.40 V and 4.40 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 100kHz, VBW is set to 300kHz for 30MHz~1GHz

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

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

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

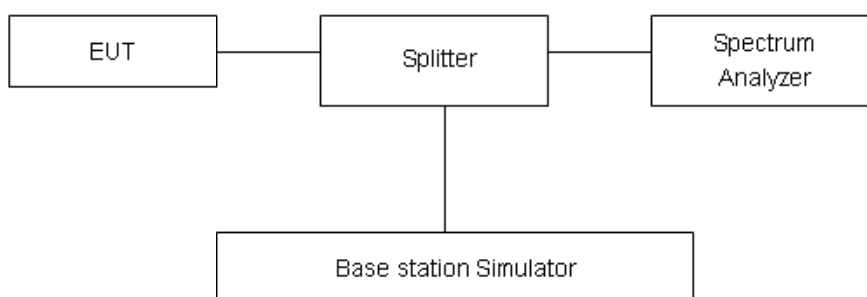
RBW is set to 100 kHz (30MHz~1000 MHz)

RBW is set to 1000 kHz (above 1000MHz)

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

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

Test setup



Limits

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

Rule Part 27.53 (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.

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

Measurement Uncertainty

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

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

Test Results

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

5.7 Radiates Spurious Emission

Ambient condition

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

Method of Measurement

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

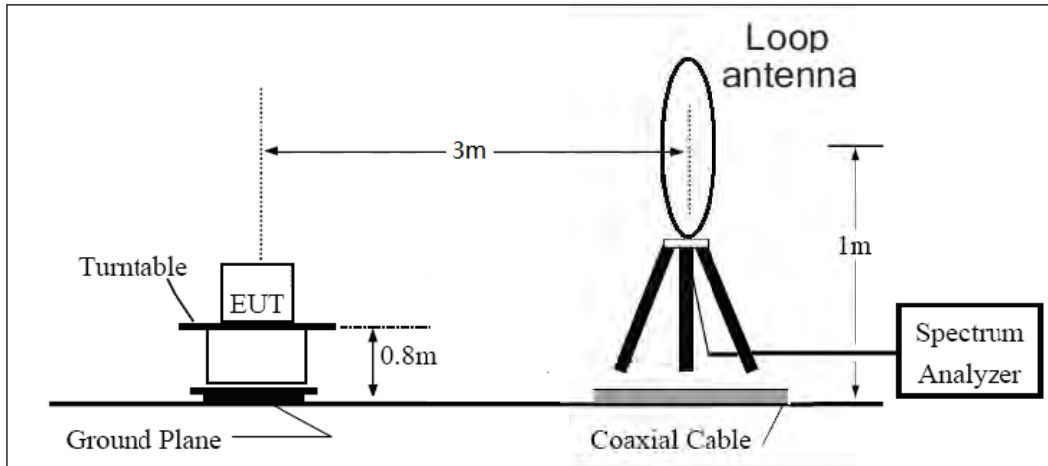
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$
 The measurement results are amend as described below:

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

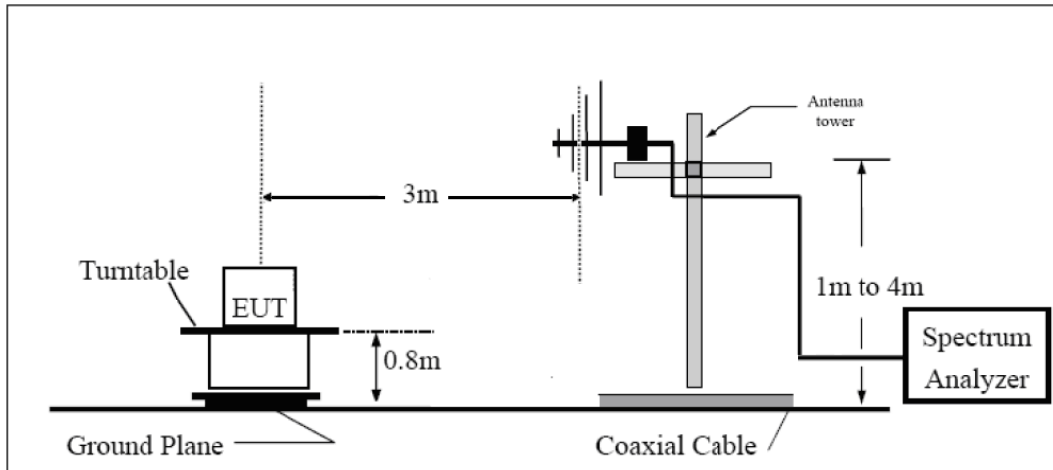
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

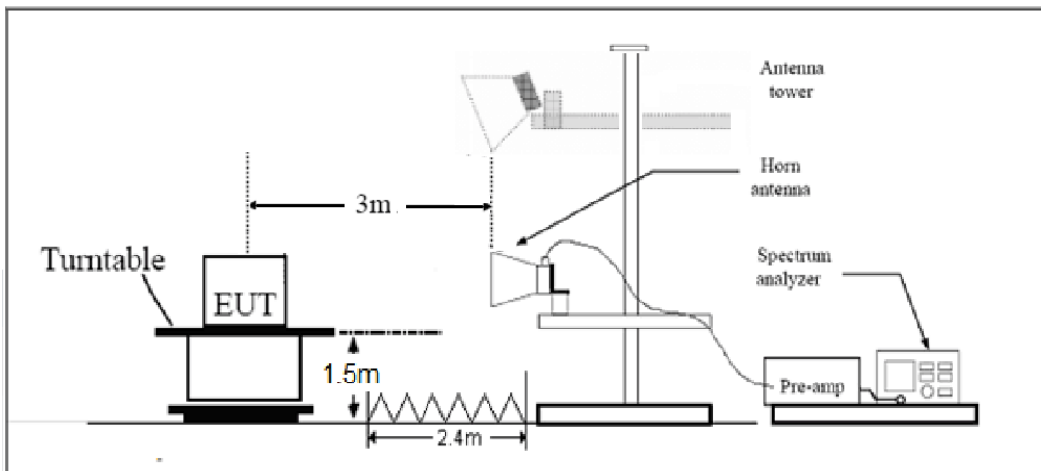
9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m



Limits

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

Rule Part 27.53 (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.

Part 27.53 (h)/(g) Limit	-13 dBm
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		21.23	21.27	21.34	20.96	21.00	21.07
AMR		21.15	21.33	21.36	20.88	21.06	21.09
HSDPA	Sub - Test 1	20.33	20.17	20.28	20.06	19.90	20.01
	Sub - Test 2	20.37	20.25	20.42	20.10	19.98	20.15
	Sub - Test 3	19.89	19.81	20.00	19.62	19.54	19.73
	Sub - Test 4	19.57	19.93	19.84	19.30	19.66	19.57
HSUPA	Sub - Test 1	18.85	18.89	18.78	18.58	18.62	18.51
	Sub - Test 2	18.21	18.27	18.30	17.94	18.00	18.03
	Sub - Test 3	19.17	19.15	19.36	18.90	18.88	19.09
	Sub - Test 4	17.71	17.85	17.82	17.44	17.58	17.55
	Sub - Test 5	19.13	19.23	19.44	18.86	18.96	19.17

LTE Band 4				Maximum Output Power (dBm)			EIRP (dBm)		
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				19957/1710.7	20175/1732.5	20393/1754.3	19957/1710.7	20175/1732.5	20393/1754.3
1.4MHz	QPSK	1	0	23.16	23.19	23.20	22.89	22.92	22.93
		1	2	23.25	23.27	23.28	22.98	23.00	23.01
		1	5	23.12	23.07	23.12	22.85	22.80	22.85
		3	0	23.16	23.26	23.22	22.89	22.99	22.95
		3	2	23.18	23.20	23.24	22.91	22.93	22.97
		3	3	23.10	23.18	23.18	22.83	22.91	22.91
		6	0	22.16	22.26	22.28	21.89	21.99	22.01
	16QAM	1	0	22.61	22.50	22.49	22.34	22.23	22.22
		1	2	22.59	22.66	22.56	22.32	22.39	22.29
		1	5	22.45	22.41	22.39	22.18	22.14	22.12
		3	0	22.13	22.18	22.18	21.86	21.91	21.91
		3	2	22.19	22.17	22.21	21.92	21.90	21.94
		3	3	22.07	22.18	22.11	21.80	21.91	21.84
		6	0	21.15	21.25	21.22	20.88	20.98	20.95
64QAM	1	0	21.37	21.25	21.35	21.10	20.98	21.08	



		1	2	21.40	21.39	21.46	21.13	21.12	21.19
		1	5	21.26	21.19	21.23	20.99	20.92	20.96
		3	0	21.22	21.24	21.23	20.95	20.97	20.96
		3	2	21.23	21.22	21.26	20.96	20.95	20.99
		3	3	21.17	21.23	21.14	20.90	20.96	20.87
		6	0	20.24	20.36	20.31	19.97	20.09	20.04
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			EIRP (dBm)		
				19965/1 711.5	20175/1 732.5	20385/1 753.5	19965/1 711.5	20175/1 732.5	20385/1 753.5
3MHz	QPSK	1	0	23.18	23.23	23.23	22.91	22.96	22.96
		1	7	23.23	23.30	23.32	22.96	23.03	23.05
		1	14	23.15	23.12	23.16	22.88	22.85	22.89
		8	0	22.26	22.38	22.35	21.99	22.11	22.08
		8	4	22.30	22.30	22.36	22.03	22.03	22.09
		8	7	22.20	22.29	22.28	21.93	22.02	22.01
		15	0	22.16	22.30	22.31	21.89	22.03	22.04
	16QAM	1	0	22.64	22.52	22.52	22.37	22.25	22.25
		1	7	22.62	22.66	22.60	22.35	22.39	22.33
		1	14	22.47	22.45	22.42	22.20	22.18	22.15
		8	0	21.24	21.31	21.30	20.97	21.04	21.03
		8	4	21.30	21.30	21.33	21.03	21.03	21.06
		8	7	21.17	21.30	21.24	20.90	21.03	20.97
		15	0	21.18	21.29	21.25	20.91	21.02	20.98
	64QAM	1	0	21.40	21.27	21.38	21.13	21.00	21.11
		1	7	21.43	21.39	21.48	21.16	21.12	21.21
		1	14	21.28	21.18	21.26	21.01	20.91	20.99
		8	0	20.33	20.37	20.35	20.06	20.10	20.08
		8	4	20.34	20.35	20.38	20.07	20.08	20.11
		8	7	20.27	20.35	20.27	20.00	20.08	20.00
		15	0	20.27	20.40	20.34	20.00	20.13	20.07
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			EIRP (dBm)		
				19975/1 712.5	20175/1 732.5	20375/1 752.5	19975/1 712.5	20175/1 732.5	20375/1 752.5
5MHz	QPSK	1	0	23.15	23.21	23.19	22.88	22.94	22.92
		1	13	23.21	23.26	23.29	22.94	22.99	23.02
		1	24	23.12	23.07	23.12	22.85	22.80	22.85
		12	0	22.23	22.33	22.31	21.96	22.06	22.04
		12	6	22.28	22.26	22.31	22.01	21.99	22.04
		12	13	22.18	22.27	22.24	21.91	22.00	21.97
		25	0	22.16	22.29	22.29	21.89	22.02	22.02
	16QAM	1	0	22.61	22.48	22.49	22.34	22.21	22.22
		1	13	22.59	22.64	22.57	22.32	22.37	22.30
		1	24	22.44	22.43	22.38	22.17	22.16	22.11



		12	0	21.22	21.27	21.27	20.95	21.00	21.00
		12	6	21.27	21.25	21.29	21.00	20.98	21.02
		12	13	21.14	21.25	21.20	20.87	20.98	20.93
		25	0	21.16	21.25	21.20	20.89	20.98	20.93
	64QAM	1	0	21.37	21.27	21.35	21.10	21.00	21.08
		1	13	21.40	21.41	21.45	21.13	21.14	21.18
		1	24	21.29	21.16	21.22	21.02	20.89	20.95
		12	0	20.31	20.33	20.36	20.04	20.06	20.09
		12	6	20.31	20.30	20.34	20.04	20.03	20.07
		12	13	20.24	20.30	20.23	19.97	20.03	19.96
		25	0	20.25	20.36	20.29	19.98	20.09	20.02
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			EIRP (dBm)		
				20000/1715	20175/1732.5	20350/1750	20000/1715	20175/1732.5	20350/1750
10MHz	QPSK	1	0	23.17	23.22	23.22	22.90	22.95	22.95
		1	25	23.24	23.31	23.33	22.97	23.04	23.06
		1	49	23.14	23.11	23.15	22.87	22.84	22.88
		25	0	22.26	22.38	22.35	21.99	22.11	22.08
		25	13	22.31	22.31	22.35	22.04	22.04	22.08
		25	25	22.20	22.31	22.29	21.93	22.04	22.02
		50	0	22.20	22.31	22.33	21.93	22.04	22.06
	16QAM	1	0	22.63	22.51	22.51	22.36	22.24	22.24
		1	25	22.62	22.68	22.60	22.35	22.41	22.33
		1	49	22.47	22.45	22.41	22.20	22.18	22.14
		25	0	21.25	21.32	21.31	20.98	21.05	21.04
		25	13	21.29	21.29	21.32	21.02	21.02	21.05
		25	25	21.17	21.30	21.24	20.90	21.03	20.97
		50	0	21.19	21.30	21.24	20.92	21.03	20.97
	64QAM	1	0	21.39	21.26	21.37	21.12	20.99	21.10
		1	25	21.43	21.41	21.48	21.16	21.14	21.21
		1	49	21.28	21.18	21.25	21.01	20.91	20.98
		25	0	20.34	20.38	20.36	20.07	20.11	20.09
		25	13	20.33	20.34	20.37	20.06	20.07	20.10
		25	25	20.27	20.35	20.27	20.00	20.08	20.00
		50	0	20.28	20.41	20.33	20.01	20.14	20.06
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			EIRP (dBm)		
				20025/1717.5	20175/1732.5	20325/1747.5	20025/1717.5	20175/1732.5	20325/1747.5
15MHz	QPSK	1	0	23.16	23.18	23.20	22.89	22.91	22.93
		1	38	23.22	23.30	23.30	22.95	23.03	23.03
		1	74	23.11	23.06	23.11	22.84	22.79	22.84
		36	0	22.24	22.34	22.32	21.97	22.07	22.05
		36	18	22.28	22.26	22.31	22.01	21.99	22.04



		36	39	22.17	22.28	22.25	21.90	22.01	21.98
		75	0	22.18	22.27	22.28	21.91	22.00	22.01
	16QAM	1	0	22.58	22.49	22.49	22.31	22.22	22.22
		1	38	22.60	22.65	22.58	22.33	22.38	22.31
		1	74	22.44	22.41	22.38	22.17	22.14	22.11
		36	0	21.22	21.30	21.28	20.95	21.03	21.01
		36	18	21.26	21.24	21.28	20.99	20.97	21.01
		36	39	21.15	21.26	21.21	20.88	20.99	20.94
		75	0	21.16	21.25	21.20	20.89	20.98	20.93
	64QAM	1	0	21.34	21.24	21.35	21.07	20.97	21.08
		1	38	21.41	21.38	21.46	21.14	21.11	21.19
		1	74	21.29	21.17	21.26	21.02	20.90	20.99
		36	0	20.33	20.40	20.37	20.06	20.13	20.10
		36	18	20.31	20.31	20.36	20.04	20.04	20.09
36		39	20.25	20.31	20.24	19.98	20.04	19.97	
75		0	20.25	20.36	20.29	19.98	20.09	20.02	
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			EIRP (dBm)		
				20050/1720	20175/1732.5	20300/1745	20050/1720	20175/1732.5	20300/1745
20MHz	QPSK	1	0	23.13	23.14	23.17	22.86	22.87	22.90
		1	50	23.21	23.26	23.28	22.94	22.99	23.01
		1	99	23.09	23.05	23.08	22.82	22.78	22.81
		50	0	22.21	22.29	22.28	21.94	22.02	22.01
		50	25	22.26	22.22	22.28	21.99	21.95	22.01
		50	50	22.14	22.23	22.21	21.87	21.96	21.94
		100	0	22.15	22.22	22.24	21.88	21.95	21.97
	16QAM	1	0	22.49	22.45	22.44	22.22	22.18	22.17
		1	50	22.56	22.63	22.54	22.29	22.36	22.27
		1	99	22.42	22.38	22.36	22.15	22.11	22.09
		50	0	21.19	21.26	21.25	20.92	20.99	20.98
		50	25	21.23	21.22	21.25	20.96	20.95	20.98
		50	50	21.12	21.21	21.17	20.85	20.94	20.90
		100	0	21.14	21.21	21.17	20.87	20.94	20.90
	64QAM	1	0	21.32	21.20	21.30	21.05	20.93	21.03
		1	50	21.37	21.36	21.42	21.10	21.09	21.15
		1	99	21.23	21.11	21.20	20.96	20.84	20.93
		50	0	20.28	20.32	20.30	20.01	20.05	20.03
		50	25	20.27	20.27	20.30	20.00	20.00	20.03
		50	50	20.22	20.26	20.20	19.95	19.99	19.93
		100	0	20.23	20.32	20.26	19.96	20.05	19.99



LTE Band 12				Maximum Output Power (dBm)			ERP (dBm)		
Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				23017/699.7	23095/707.5	23173/715.3	23017/699.7	23095/707.5	23173/715.3
1.4MHz	QPSK	1	0	23.23	23.30	23.29	17.55	17.62	17.61
		1	2	23.39	23.35	23.29	17.71	17.67	17.61
		1	5	23.36	23.35	23.36	17.68	17.67	17.68
		3	0	23.31	23.07	23.38	17.63	17.39	17.70
		3	2	23.23	23.31	23.27	17.55	17.63	17.59
		3	3	23.47	23.04	23.28	17.79	17.36	17.60
		6	0	22.48	22.18	22.45	16.80	16.50	16.77
	16QAM	1	0	22.67	22.56	22.66	16.99	16.88	16.98
		1	2	22.65	22.63	22.66	16.97	16.95	16.98
		1	5	22.58	22.64	22.66	16.90	16.96	16.98
		3	0	22.29	22.02	22.35	16.61	16.34	16.67
		3	2	22.28	22.25	22.29	16.60	16.57	16.61
		3	3	22.49	22.07	22.25	16.81	16.39	16.57
		6	0	21.44	21.13	21.47	15.76	15.45	15.79
	64QAM	1	0	21.37	21.46	21.47	15.69	15.78	15.79
		1	2	21.48	21.52	21.43	15.80	15.84	15.75
		1	5	21.53	21.56	21.49	15.85	15.88	15.81
		3	0	21.31	21.01	21.30	15.63	15.33	15.62
		3	2	21.27	21.23	21.29	15.59	15.55	15.61
		3	3	21.46	21.06	21.22	15.78	15.38	15.54
		6	0	20.43	20.13	20.42	14.75	14.45	14.74
Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			ERP (dBm)		
				23025/700.5	23095/707.5	23165/714.5	23025/700.5	23095/707.5	23165/714.5
3MHz	QPSK	1	0	23.25	23.34	23.32	17.57	17.66	17.64
		1	7	23.37	23.38	23.33	17.69	17.70	17.65
		1	14	23.39	23.40	23.40	17.71	17.72	17.72
		8	0	22.41	22.19	22.51	16.73	16.51	16.83
		8	4	22.35	22.41	22.39	16.67	16.73	16.71
		8	7	22.57	22.15	22.38	16.89	16.47	16.70
		15	0	22.48	22.22	22.48	16.80	16.54	16.80
	16QAM	1	0	22.70	22.58	22.69	17.02	16.90	17.01
		1	7	22.68	22.63	22.70	17.00	16.95	17.02
		1	14	22.60	22.68	22.69	16.92	17.00	17.01
		8	0	21.40	21.15	21.47	15.72	15.47	15.79
		8	4	21.39	21.38	21.41	15.71	15.70	15.73
		8	7	21.59	21.19	21.38	15.91	15.51	15.70
		15	0	21.47	21.17	21.50	15.79	15.49	15.82
64QAM	1	0	21.40	21.48	21.50	15.72	15.80	15.82	



Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			ERP (dBm)			
				23035/701.5	23095/707.5	23155/713.5	23035/701.5	23095/707.5	23155/713.5	
		1	7	21.51	21.52	21.45	15.83	15.84	15.77	
		1	14	21.55	21.55	21.52	15.87	15.87	15.84	
		8	0	20.42	20.14	20.42	14.74	14.46	14.74	
		8	4	20.38	20.36	20.41	14.70	14.68	14.73	
		8	7	20.56	20.18	20.35	14.88	14.50	14.67	
		15	0	20.46	20.17	20.45	14.78	14.49	14.77	
5MHz	QPSK	1	0	23.23	23.29	23.29	17.55	17.61	17.61	
		1	13	23.36	23.38	23.31	17.68	17.70	17.63	
		1	24	23.35	23.34	23.35	17.67	17.66	17.67	
		12	0	22.39	22.15	22.48	16.71	16.47	16.80	
		12	6	22.33	22.37	22.34	16.65	16.69	16.66	
		12	13	22.54	22.14	22.35	16.86	16.46	16.67	
		25	0	22.50	22.19	22.45	16.82	16.51	16.77	
	16QAM	1	0	22.64	22.55	22.66	16.96	16.87	16.98	
		1	13	22.66	22.62	22.68	16.98	16.94	17.00	
		1	24	22.57	22.64	22.65	16.89	16.96	16.97	
		12	0	21.38	21.14	21.45	15.70	15.46	15.77	
		12	6	21.35	21.32	21.36	15.67	15.64	15.68	
		12	13	21.57	21.15	21.35	15.89	15.47	15.67	
		25	0	21.45	21.13	21.45	15.77	15.45	15.77	
	64QAM	1	0	21.34	21.45	21.47	15.66	15.77	15.79	
		1	13	21.49	21.51	21.43	15.81	15.83	15.75	
		1	24	21.56	21.54	21.52	15.88	15.86	15.84	
		12	0	20.42	20.17	20.44	14.74	14.49	14.76	
		12	6	20.35	20.32	20.39	14.67	14.64	14.71	
		12	13	20.54	20.14	20.32	14.86	14.46	14.64	
		25	0	20.44	20.13	20.40	14.76	14.45	14.72	
			RB allocation	off set	Channel/Frequency(MHz)			ERP (dBm)		
					23060/704	23095/707.5	23130/711	23060/704	23095/707.5	23130/711
	10MHz	QPSK	1	0	23.20	23.25	23.26	17.52	17.57	17.58
1			25	23.35	23.34	23.29	17.67	17.66	17.61	
1			49	23.33	23.33	23.32	17.65	17.65	17.64	
25			0	22.36	22.10	22.44	16.68	16.42	16.76	
25			13	22.31	22.33	22.31	16.63	16.65	16.63	
25			25	22.51	22.09	22.31	16.83	16.41	16.63	
50			0	22.47	22.14	22.41	16.79	16.46	16.73	
16QAM		1	0	22.47	22.51	22.61	16.79	16.83	16.93	
		1	25	22.62	22.60	22.64	16.94	16.92	16.96	
		1	49	22.55	22.61	22.63	16.87	16.93	16.95	



		25	0	21.35	21.10	21.42	15.67	15.42	15.74
		25	13	21.32	21.30	21.33	15.64	15.62	15.65
		25	25	21.54	21.10	21.31	15.86	15.42	15.63
		50	0	21.43	21.09	21.42	15.75	15.41	15.74
	64QAM	1	0	21.32	21.41	21.42	15.64	15.73	15.74
		1	25	21.45	21.49	21.39	15.77	15.81	15.71
		1	49	21.50	21.48	21.46	15.82	15.80	15.78
		25	0	20.37	20.09	20.37	14.69	14.41	14.69
		25	13	20.31	20.28	20.33	14.63	14.60	14.65
		25	25	20.51	20.09	20.28	14.83	14.41	14.60
		50	0	20.42	20.09	20.37	14.74	14.41	14.69

LTE Band 41				Maximum Output Power (dBm)			EIRP (dBm)		
Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				39675/2498.5	40620/2593	41565/2687.5	39675/2498.5	40620/2593	41565/2687.5
5MHz	QPSK	1	0	23.28	23.28	23.31	24.21	24.21	24.24
		1	13	23.36	23.47	23.43	24.29	24.40	24.36
		1	24	23.29	23.37	23.42	24.22	24.30	24.35
		12	0	22.34	22.46	22.42	23.27	23.39	23.35
		12	6	22.46	22.46	22.48	23.39	23.39	23.41
		12	13	22.46	22.43	22.41	23.39	23.36	23.34
		25	0	22.39	22.45	22.52	23.32	23.38	23.45
	16QAM	1	0	22.59	22.40	22.66	23.52	23.33	23.59
		1	13	22.57	22.56	22.60	23.50	23.49	23.53
		1	24	22.51	22.49	22.59	23.44	23.42	23.52
		12	0	21.51	21.47	21.56	22.44	22.40	22.49
		12	6	21.53	21.51	21.58	22.46	22.44	22.51
		12	13	21.48	21.46	21.57	22.41	22.39	22.50
		25	0	21.42	21.40	21.50	22.35	22.33	22.43
	64QAM	1	0	21.29	21.37	21.40	22.22	22.30	22.33
		1	13	21.29	21.25	21.36	22.22	22.18	22.29
		1	24	21.58	21.52	21.69	22.51	22.45	22.62
		12	0	20.64	20.64	20.73	21.57	21.57	21.66
		12	6	20.51	20.48	20.58	21.44	21.41	21.51
		12	13	20.66	20.64	20.75	21.59	21.57	21.68
		25	0	20.63	20.62	20.71	21.56	21.55	21.64
Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			EIRP (dBm)		
10MHz	QPSK			39700/2501	40620/2593	41540/2685	39700/2501	40620/2593	41540/2685
		1	0	23.30	23.31	23.32	24.23	24.24	24.25
		1	25	23.39	23.51	23.48	24.32	24.44	24.41
		1	49	23.31	23.40	23.46	24.24	24.33	24.39



		25	0	22.37	22.50	22.47	23.30	23.43	23.40	
		25	13	22.49	22.50	22.53	23.42	23.43	23.46	
		25	25	22.48	22.48	22.45	23.41	23.41	23.38	
		50	0	22.43	22.49	22.54	23.36	23.42	23.47	
	16QAM	1	0	22.61	22.42	22.69	23.54	23.35	23.62	
		1	25	22.60	22.59	22.64	23.53	23.52	23.57	
		1	49	22.54	22.52	22.61	23.47	23.45	23.54	
		25	0	21.54	21.51	21.61	22.47	22.44	22.54	
		25	13	21.55	21.54	21.62	22.48	22.47	22.55	
		25	25	21.51	21.50	21.62	22.44	22.43	22.55	
		50	0	21.45	21.44	21.55	22.38	22.37	22.48	
	64QAM	1	0	21.31	21.39	21.39	22.24	22.32	22.32	
		1	25	21.32	21.28	21.36	22.25	22.21	22.29	
		1	49	21.57	21.55	21.71	22.50	22.48	22.64	
		25	0	20.67	20.64	20.78	21.60	21.57	21.71	
		25	13	20.53	20.51	20.62	21.46	21.44	21.55	
		25	25	20.69	20.68	20.80	21.62	21.61	21.73	
		50	0	20.66	20.66	20.76	21.59	21.59	21.69	
	Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			EIRP (dBm)		
					39725/2503.5	40620/2593	41515/2682.5	39725/2503.5	40620/2593	41515/2682.5
	15MHz	QPSK	1	0	23.29	23.29	23.28	24.22	24.22	24.21
1			38	23.37	23.48	23.47	24.30	24.41	24.40	
1			74	23.28	23.36	23.41	24.21	24.29	24.34	
36			0	22.35	22.47	22.43	23.28	23.40	23.36	
36			18	22.46	22.46	22.48	23.39	23.39	23.41	
36			39	22.45	22.44	22.42	23.38	23.37	23.35	
75			0	22.41	22.44	22.50	23.34	23.37	23.43	
16QAM		1	0	22.56	22.40	22.67	23.49	23.33	23.60	
		1	38	22.58	22.57	22.61	23.51	23.50	23.54	
		1	74	22.51	22.49	22.57	23.44	23.42	23.50	
		36	0	21.51	21.48	21.59	22.44	22.41	22.52	
		36	18	21.52	21.50	21.57	22.45	22.43	22.50	
		36	39	21.49	21.47	21.58	22.42	22.40	22.51	
		75	0	21.42	21.40	21.50	22.35	22.33	22.43	
64QAM		1	0	21.26	21.37	21.37	22.19	22.30	22.30	
		1	38	21.30	21.26	21.33	22.23	22.19	22.26	
		1	74	21.58	21.56	21.70	22.51	22.49	22.63	
		36	0	20.66	20.65	20.80	21.59	21.58	21.73	
		36	18	20.51	20.50	20.59	21.44	21.43	21.52	
		36	39	20.67	20.65	20.76	21.60	21.58	21.69	
		75	0	20.63	20.62	20.71	21.56	21.55	21.64	



Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			EIRP (dBm)		
				39750/2506	40620/2593	41490/2680	39750/2506	40620/2593	41490/2680
20MHz	QPSK	1	0	23.26	23.26	23.24	24.19	24.19	24.17
		1	50	23.36	23.53	23.43	24.29	24.46	24.36
		1	99	23.26	23.33	23.40	24.19	24.26	24.33
		50	0	22.32	22.43	22.38	23.25	23.36	23.31
		50	25	22.44	22.43	22.44	23.37	23.36	23.37
		50	50	22.42	22.40	22.37	23.35	23.33	23.30
		100	0	22.38	22.40	22.45	23.31	23.33	23.38
	16QAM	1	0	22.38	22.35	22.63	23.31	23.28	23.56
		1	50	22.54	22.53	22.59	23.47	23.46	23.52
		1	99	22.49	22.47	22.54	23.42	23.40	23.47
		50	0	21.48	21.45	21.55	22.41	22.38	22.48
		50	25	21.49	21.47	21.55	22.42	22.40	22.48
		50	50	21.46	21.43	21.53	22.39	22.36	22.46
		100	0	21.40	21.37	21.46	22.33	22.30	22.39
	64QAM	1	0	21.24	21.32	21.33	22.17	22.25	22.26
		1	50	21.26	21.22	21.31	22.19	22.15	22.24
		1	99	21.52	21.50	21.64	22.45	22.43	22.57
		50	0	20.61	20.58	20.72	21.54	21.51	21.65
		50	25	20.47	20.44	20.55	21.40	21.37	21.48
		50	50	20.64	20.61	20.71	21.57	21.54	21.64
		100	0	20.61	20.59	20.67	21.54	21.52	21.60

LTE Band 66				Maximum Output Power (dBm)			EIRP (dBm)		
Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				131979/1710.7	132322/1745	132665/1779.3	131979/1710.7	132322/1745	132665/1779.3
1.4MHz	QPSK	1	0	23.31	23.35	23.29	23.04	23.08	23.02
		1	2	23.38	23.39	23.26	23.11	23.12	22.99
		1	5	23.18	23.19	23.12	22.91	22.92	22.85
		3	0	23.23	23.36	23.26	22.96	23.09	22.99
		3	2	23.28	23.35	23.30	23.01	23.08	23.03
		3	3	23.21	23.22	23.19	22.94	22.95	22.92
		6	0	22.30	22.36	22.29	22.03	22.09	22.02
	16QAM	1	0	22.69	22.66	22.69	22.42	22.39	22.42
		1	2	22.67	22.64	22.65	22.40	22.37	22.38
		1	5	22.49	22.43	22.45	22.22	22.16	22.18
		3	0	22.17	22.27	22.23	21.90	22.00	21.96
		3	2	22.26	22.30	22.26	21.99	22.03	21.99
		3	3	22.18	22.20	22.14	21.91	21.93	21.87
		6	0	21.24	21.34	21.26	20.97	21.07	20.99



	64QAM	1	0	21.43	21.55	21.50	21.16	21.28	21.23
		1	2	21.63	21.59	21.49	21.36	21.32	21.22
		1	5	21.39	21.46	21.22	21.12	21.19	20.95
		3	0	21.32	21.33	21.28	21.05	21.06	21.01
		3	2	21.40	21.38	21.34	21.13	21.11	21.07
		3	3	21.27	21.29	21.20	21.00	21.02	20.93
		6	0	20.37	20.43	20.39	20.10	20.16	20.12
Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			EIRP (dBm)		
				131987/1711.5	132322/1745	132657/1778.5	131987/1711.5	132322/1745	132657/1778.5
3MHz	QPSK	1	0	23.33	23.39	23.32	23.06	23.12	23.05
		1	7	23.36	23.42	23.30	23.09	23.15	23.03
		1	14	23.21	23.24	23.16	22.94	22.97	22.89
		8	0	22.33	22.48	22.39	22.06	22.21	22.12
		8	4	22.40	22.45	22.42	22.13	22.18	22.15
		8	7	22.31	22.33	22.29	22.04	22.06	22.02
		15	0	22.30	22.40	22.32	22.03	22.13	22.05
	16QAM	1	0	22.72	22.68	22.72	22.45	22.41	22.45
		1	7	22.70	22.64	22.69	22.43	22.37	22.42
		1	14	22.51	22.47	22.48	22.24	22.20	22.21
		8	0	21.28	21.40	21.35	21.01	21.13	21.08
		8	4	21.37	21.43	21.38	21.10	21.16	21.11
		8	7	21.28	21.32	21.27	21.01	21.05	21.00
		15	0	21.27	21.38	21.29	21.00	21.11	21.02
	64QAM	1	0	21.46	21.57	21.53	21.19	21.30	21.26
		1	7	21.66	21.59	21.51	21.39	21.32	21.24
		1	14	21.41	21.45	21.25	21.14	21.18	20.98
		8	0	20.43	20.46	20.40	20.16	20.19	20.13
		8	4	20.51	20.51	20.46	20.24	20.24	20.19
		8	7	20.37	20.41	20.33	20.10	20.14	20.06
		15	0	20.40	20.47	20.42	20.13	20.20	20.15
Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				131997/1712.5	132322/1745	132647/1777.5	131997/1712.5	132322/1745	132647/1777.5
5MHz	QPSK	1	0	23.30	23.37	23.28	23.03	23.10	23.01
		1	13	23.34	23.38	23.27	23.07	23.11	23.00
		1	24	23.18	23.19	23.12	22.91	22.92	22.85
		12	0	22.30	22.43	22.35	22.03	22.16	22.08
		12	6	22.38	22.41	22.37	22.11	22.14	22.10
		12	13	22.29	22.31	22.25	22.02	22.04	21.98
		25	0	22.30	22.39	22.30	22.03	22.12	22.03
	16QAM	1	0	22.69	22.64	22.69	22.42	22.37	22.42
		1	13	22.67	22.62	22.66	22.40	22.35	22.39



		1	24	22.48	22.45	22.44	22.21	22.18	22.17	
		12	0	21.26	21.36	21.32	20.99	21.09	21.05	
		12	6	21.34	21.38	21.34	21.07	21.11	21.07	
		12	13	21.25	21.27	21.23	20.98	21.00	20.96	
		25	0	21.25	21.34	21.24	20.98	21.07	20.97	
	64QAM	1	0	21.43	21.57	21.50	21.16	21.30	21.23	
		1	13	21.63	21.61	21.48	21.36	21.34	21.21	
		1	24	21.42	21.43	21.21	21.15	21.16	20.94	
		12	0	20.41	20.42	20.41	20.14	20.15	20.14	
		12	6	20.48	20.46	20.42	20.21	20.19	20.15	
		12	13	20.34	20.36	20.29	20.07	20.09	20.02	
		25	0	20.38	20.43	20.37	20.11	20.16	20.10	
	Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			EIRP (dBm)		
					132022/1715	132322/1745	132622/1775	132022/1715	132322/1745	132622/1775
10MHz	QPSK	1	0	23.32	23.38	23.31	23.05	23.11	23.04	
		1	25	23.37	23.43	23.31	23.10	23.16	23.04	
		1	49	23.20	23.23	23.15	22.93	22.96	22.88	
		25	0	22.33	22.48	22.39	22.06	22.21	22.12	
		25	13	22.41	22.46	22.41	22.14	22.19	22.14	
		25	25	22.31	22.35	22.30	22.04	22.08	22.03	
		50	0	22.34	22.41	22.34	22.07	22.14	22.07	
	16QAM	1	0	22.71	22.67	22.71	22.44	22.40	22.44	
		1	25	22.70	22.66	22.69	22.43	22.39	22.42	
		1	49	22.51	22.47	22.47	22.24	22.20	22.20	
		25	0	21.29	21.41	21.36	21.02	21.14	21.09	
		25	13	21.36	21.42	21.37	21.09	21.15	21.10	
		25	25	21.28	21.32	21.27	21.01	21.05	21.00	
		50	0	21.28	21.39	21.28	21.01	21.12	21.01	
	64QAM	1	0	21.45	21.56	21.52	21.18	21.29	21.25	
		1	25	21.66	21.61	21.51	21.39	21.34	21.24	
		1	49	21.41	21.45	21.24	21.14	21.18	20.97	
		25	0	20.44	20.47	20.41	20.17	20.20	20.14	
		25	13	20.50	20.50	20.45	20.23	20.23	20.18	
		25	25	20.37	20.41	20.33	20.10	20.14	20.06	
		50	0	20.41	20.48	20.41	20.14	20.21	20.14	
	Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			EIRP (dBm)		
					132047/1717.5	132322/1745	132597/1772.5	132047/1717.5	132322/1745	132597/1772.5
	15MHz	QPSK	1	0	23.31	23.34	23.29	23.04	23.07	23.02
1			38	23.35	23.42	23.28	23.08	23.15	23.01	
1			74	23.17	23.18	23.11	22.90	22.91	22.84	
36			0	22.31	22.44	22.36	22.04	22.17	22.09	



		36	18	22.38	22.41	22.37	22.11	22.14	22.10
		36	39	22.28	22.32	22.26	22.01	22.05	21.99
		75	0	22.32	22.37	22.29	22.05	22.10	22.02
	16QAM	1	0	22.66	22.65	22.69	22.39	22.38	22.42
		1	38	22.68	22.63	22.67	22.41	22.36	22.40
		1	74	22.48	22.43	22.44	22.21	22.16	22.17
		36	0	21.26	21.39	21.33	20.99	21.12	21.06
		36	18	21.33	21.37	21.33	21.06	21.10	21.06
		36	39	21.26	21.28	21.24	20.99	21.01	20.97
		75	0	21.25	21.34	21.24	20.98	21.07	20.97
		64QAM	1	0	21.40	21.54	21.50	21.13	21.27
	1		38	21.64	21.58	21.49	21.37	21.31	21.22
	1		74	21.42	21.44	21.25	21.15	21.17	20.98
	36		0	20.43	20.49	20.42	20.16	20.22	20.15
	36		18	20.48	20.47	20.44	20.21	20.20	20.17
	36		39	20.35	20.37	20.30	20.08	20.10	20.03
	75		0	20.38	20.43	20.37	20.11	20.16	20.10
	Bandwidth		Modulation	RB allocation	off set	Channel/Frequency(MHz)			EIRP (dBm)
132072/1720		132322/1745				132572/1770	132072/1720	132322/1745	132572/1770
20MHz	QPSK	1	0	23.28	23.30	23.26	23.01	23.03	22.99
		1	50	23.34	23.38	23.26	23.07	23.11	22.99
		1	99	23.15	23.17	23.08	22.88	22.90	22.81
		50	0	22.28	22.39	22.32	22.01	22.12	22.05
		50	25	22.36	22.37	22.34	22.09	22.10	22.07
		50	50	22.25	22.27	22.22	21.98	22.00	21.95
		100	0	22.29	22.32	22.25	22.02	22.05	21.98
	16QAM	1	0	22.58	22.61	22.64	22.31	22.34	22.37
		1	50	22.64	22.61	22.63	22.37	22.34	22.36
		1	99	22.46	22.40	22.42	22.19	22.13	22.15
		50	0	21.23	21.35	21.30	20.96	21.08	21.03
		50	25	21.30	21.35	21.30	21.03	21.08	21.03
		50	50	21.23	21.23	21.20	20.96	20.96	20.93
		100	0	21.23	21.30	21.21	20.96	21.03	20.94
	64QAM	1	0	21.38	21.50	21.45	21.11	21.23	21.18
		1	50	21.60	21.56	21.45	21.33	21.29	21.18
		1	99	21.36	21.38	21.19	21.09	21.11	20.92
		50	0	20.38	20.41	20.35	20.11	20.14	20.08
		50	25	20.44	20.43	20.38	20.17	20.16	20.11
		50	50	20.32	20.32	20.26	20.05	20.05	19.99
		100	0	20.36	20.39	20.34	20.09	20.12	20.07



LTE Band 71				Maximum Output Power (dBm)			ERP (dBm)		
Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			Channel/Frequency(MHz)		
				133147/ 665.5	133297/ 680.5	133447/ 695.5	133147/ 665.5	133297/ 680.5	133447/ 695.5
5MHz	QPSK	1	0	23.70	23.60	23.57	17.09	16.99	16.96
		1	13	23.72	23.70	23.68	17.11	17.09	17.07
		1	24	23.66	23.69	23.75	17.05	17.08	17.14
		12	0	22.58	22.65	22.70	15.97	16.04	16.09
		12	6	22.72	22.74	22.77	16.11	16.13	16.16
		12	13	22.81	22.78	22.72	16.20	16.17	16.11
		25	0	22.68	22.74	22.72	16.07	16.13	16.11
	16QAM	1	0	23.01	22.81	22.80	16.40	16.20	16.19
		1	13	22.99	22.92	22.96	16.38	16.31	16.35
		1	24	22.97	22.93	22.91	16.36	16.32	16.30
		12	0	21.59	21.60	21.67	14.98	14.99	15.06
		12	6	21.72	21.71	21.75	15.11	15.10	15.14
		12	13	21.76	21.77	21.74	15.15	15.16	15.13
		25	0	21.65	21.68	21.69	15.04	15.07	15.08
	64QAM	1	0	21.95	21.75	21.77	15.34	15.14	15.16
		1	13	21.88	21.93	21.91	15.27	15.32	15.30
		1	24	21.89	21.96	21.93	15.28	15.35	15.32
		12	0	20.57	20.60	20.69	13.96	13.99	14.08
		12	6	20.70	20.70	20.75	14.09	14.09	14.14
		12	13	20.74	20.73	20.67	14.13	14.12	14.06
		25	0	20.63	20.64	20.66	14.02	14.03	14.05
Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			ERP (dBm)		
				133172/ 668	133297/ 680.5	133422/ 693	133172/ 668	133297/ 680.5	133422/ 693
10MHz	QPSK	1	0	23.72	23.61	23.60	17.11	17.00	16.99
		1	25	23.75	23.75	23.72	17.14	17.14	17.11
		1	49	23.68	23.73	23.78	17.07	17.12	17.17
		25	0	22.61	22.70	22.74	16.00	16.09	16.13
		25	13	22.75	22.79	22.81	16.14	16.18	16.20
		25	25	22.83	22.82	22.77	16.22	16.21	16.16
		50	0	22.72	22.76	22.76	16.11	16.15	16.15
	16QAM	1	0	23.03	22.84	22.82	16.42	16.23	16.21
		1	25	23.02	22.96	22.99	16.41	16.35	16.38
		1	49	23.00	22.95	22.94	16.39	16.34	16.33
		25	0	21.62	21.65	21.71	15.01	15.04	15.10
		25	13	21.74	21.75	21.78	15.13	15.14	15.17
		25	25	21.79	21.82	21.78	15.18	15.21	15.17
		50	0	21.68	21.73	21.73	15.07	15.12	15.12



Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			ERP (dBm)		
				133197/670.5	133297/680.5	133397/690.5	133197/670.5	133297/680.5	133397/690.5
	64QAM	1	0	21.97	21.74	21.79	15.36	15.13	15.18
		1	13	21.91	21.93	21.94	15.30	15.32	15.33
		1	24	21.88	21.98	21.96	15.27	15.37	15.35
		12	0	20.60	20.65	20.69	13.99	14.04	14.08
		12	6	20.72	20.74	20.78	14.11	14.13	14.17
		12	13	20.77	20.78	20.71	14.16	14.17	14.10
		25	0	20.66	20.69	20.70	14.05	14.08	14.09
15MHz	QPSK	1	0	23.71	23.57	23.58	17.10	16.96	16.97
		1	38	23.73	23.74	23.69	17.12	17.13	17.08
		1	74	23.65	23.68	23.74	17.04	17.07	17.13
		36	0	22.59	22.66	22.71	15.98	16.05	16.10
		36	18	22.72	22.74	22.77	16.11	16.13	16.16
		36	39	22.80	22.79	22.73	16.19	16.18	16.12
		75	0	22.70	22.72	22.71	16.09	16.11	16.10
	16QAM	1	0	22.98	22.82	22.80	16.37	16.21	16.19
		1	38	23.00	22.93	22.97	16.39	16.32	16.36
		1	74	22.97	22.91	22.91	16.36	16.30	16.30
		36	0	21.59	21.63	21.68	14.98	15.02	15.07
		36	18	21.71	21.70	21.74	15.10	15.09	15.13
		36	39	21.77	21.78	21.75	15.16	15.17	15.14
		75	0	21.65	21.68	21.69	15.04	15.07	15.08
	64QAM	1	0	21.92	21.72	21.77	15.31	15.11	15.16
		1	13	21.89	21.90	21.92	15.28	15.29	15.31
		1	24	21.89	21.97	21.97	15.28	15.36	15.36
		12	0	20.59	20.67	20.70	13.98	14.06	14.09
		12	6	20.70	20.71	20.77	14.09	14.10	14.16
		12	13	20.75	20.74	20.68	14.14	14.13	14.07
		25	0	20.63	20.64	20.66	14.02	14.03	14.05
Bandwidth	Modulation	RB allocation	off set	Channel/Frequency(MHz)			ERP (dBm)		
				133222/673	133322/683	133372/688	133222/673	133322/683	133372/688
20MHz	QPSK	1	0	23.68	23.53	23.55	17.07	16.92	16.94
		1	50	23.72	23.70	23.67	17.11	17.09	17.06
		1	99	23.63	23.67	23.71	17.02	17.06	17.10
		50	0	22.56	22.61	22.67	15.95	16.00	16.06
		50	25	22.70	22.70	22.74	16.09	16.09	16.13
		50	50	22.77	22.74	22.69	16.16	16.13	16.08
		100	0	22.67	22.67	22.67	16.06	16.06	16.06
	16QAM	1	0	22.84	22.78	22.75	16.23	16.17	16.14
		1	50	22.96	22.91	22.93	16.35	16.30	16.32



		1	99	22.95	22.88	22.89	16.34	16.27	16.28
		50	0	21.56	21.59	21.65	14.95	14.98	15.04
		50	25	21.68	21.68	21.71	15.07	15.07	15.10
		50	50	21.74	21.73	21.71	15.13	15.12	15.10
		100	0	21.63	21.64	21.66	15.02	15.03	15.05
	64QAM	1	0	21.90	21.68	21.72	15.29	15.07	15.11
		1	13	21.85	21.88	21.88	15.24	15.27	15.27
		1	24	21.83	21.91	21.91	15.22	15.30	15.30
		12	0	20.54	20.59	20.63	13.93	13.98	14.02
		12	6	20.66	20.67	20.71	14.05	14.06	14.10
		12	13	20.72	20.69	20.64	14.11	14.08	14.03
		25	0	20.61	20.60	20.63	14.00	13.99	14.02

CA_41C	PCC	SCC	PCC RB		SCC1 RB		Maximum Output Power (dBm)			EIRP (dBm)			
	Frequency (MHz)	Frequency (MHz)	Size	Offset	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
5MHz+20MHz	2499.3	2511	1	24	1	0	23.21	22.35	22.09	24.14	23.28	23.02	
			25	0	100	0	21.20	20.30	19.71	22.13	21.23	20.64	
	2583.8	2595.5	1	24	1	0	23.62	22.82	22.53	24.55	23.75	23.46	
			25	0	100	0	21.69	20.78	20.14	22.62	21.71	21.07	
	2668.3	2680	1	24	1	0	24.11	23.58	23.04	25.04	24.51	23.97	
			25	0	100	0	22.27	21.22	20.69	23.20	22.15	21.62	
20MHz+5MHz	2506	2517.7	1	99	1	0	23.24	22.59	22.08	24.17	23.52	23.01	
			1	0	1	24	12.71	13.13	12.64	13.64	14.06	13.57	
			100	0	25	0	21.32	20.35	19.82	22.25	21.28	20.75	
	2590.5	2602.2	1	99	1	0	23.80	23.18	22.61	24.73	24.11	23.54	
			1	0	1	24	13.68	14.10	13.56	14.61	15.03	14.49	
			100	0	25	0	21.93	20.90	20.20	22.86	21.83	21.13	
	2675	2686.7	1	99	1	0	24.31	23.65	23.12	25.24	24.58	24.05	
			1	0	1	24	14.82	15.18	14.65	15.75	16.11	15.58	
			100	0	25	0	22.46	21.43	20.95	23.39	22.36	21.88	
	10MHz+20MHz	2501.5	2515.9	1	49	1	0	23.19	22.42	21.88	24.12	23.35	22.81
				50	0	100	0	21.20	20.27	19.72	22.13	21.20	20.65
		2583.6	2598	1	49	1	0	23.70	22.93	22.37	24.63	23.86	23.30
50				0	100	0	21.75	20.77	20.20	22.68	21.70	21.13	
2665.6		2680	1	49	1	0	24.14	23.37	22.79	25.07	24.30	23.72	
			50	0	100	0	22.26	21.30	20.70	23.19	22.23	21.63	
20MHz+10MHz	2506	2520.4	1	99	1	0	23.26	22.60	22.06	24.19	23.53	22.99	
			100	0	50	0	21.28	20.32	19.79	22.21	21.25	20.72	
	2588.1	2602.5	1	99	1	0	23.83	23.25	22.71	24.76	24.18	23.64	
			100	0	50	0	21.91	20.88	20.33	22.84	21.81	21.26	
	2670.1	2684.5	1	99	1	0	24.26	23.66	23.07	25.19	24.59	24.00	



			100	0	50	0	22.36	21.41	20.85	23.29	22.34	21.78
15MHz+15MHz	2503.5	2518.5	1	74	1	0	23.41	22.78	22.24	24.34	23.71	23.17
			75	0	75	0	21.33	20.34	19.77	22.26	21.27	20.70
	2585.5	2600.5	1	74	1	0	23.95	23.34	22.76	24.88	24.27	23.69
			75	0	75	0	21.91	20.87	20.28	22.84	21.80	21.21
	2667.5	2682.5	1	74	1	0	24.38	23.76	23.23	25.31	24.69	24.16
			75	0	75	0	22.41	21.39	20.79	23.34	22.32	21.72
15MHz+20MHz	2503.8	2520.9	1	74	1	0	23.36	22.76	22.22	24.29	23.69	23.15
			75	0	100	0	21.27	20.30	19.71	22.20	21.23	20.64
	2583.3	2600.4	1	74	1	0	23.87	23.32	22.74	24.80	24.25	23.67
			75	0	100	0	21.82	20.85	20.29	22.75	21.78	21.22
	2662.9	2680	1	74	1	0	24.37	23.82	23.18	25.30	24.75	24.11
			75	0	100	0	22.37	21.39	20.83	23.30	22.32	21.76
20MHz+15MHz	2506	2523.1	1	99	1	0	23.27	22.65	22.11	24.20	23.58	23.04
			100	0	75	0	21.25	20.24	19.72	22.18	21.17	20.65
	2585.6	2602.7	1	99	1	0	23.86	23.25	22.72	24.79	24.18	23.65
			100	0	75	0	21.78	20.83	20.30	22.71	21.76	21.23
	2665.1	2682.2	1	99	1	0	24.28	23.67	23.09	25.21	24.60	24.02
			100	0	75	0	22.36	21.34	20.77	23.29	22.27	21.70
20MHz+20MHz	2506	2525.8	1	99	1	0	23.26	22.65	22.10	24.19	23.58	23.03
			1	0	1	99	14.08	14.37	13.84	15.01	15.30	14.77
			100	0	100	0	21.11	20.15	19.57	22.04	21.08	20.50
	2583.1	2602.9	1	99	1	0	23.84	23.26	22.70	24.77	24.19	23.63
			1	0	1	99	14.37	14.70	14.17	15.30	15.63	15.10
			100	0	100	0	21.75	20.81	20.21	22.68	21.74	21.14
	2660.2	2680	1	99	1	0	24.33	23.69	23.14	25.26	24.62	24.07
			1	0	1	99	15.06	15.40	14.87	15.99	16.33	15.80
			100	0	100	0	22.29	21.32	20.77	23.22	22.25	21.70

NR n41										
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					500202	518598	537000	500202	518598	537000
					2501	2593	2685	2501	2593	2685
10	PI/2 BPSK	30	1	0	22.35	22.27	22.58	23.28	23.20	23.51
			1	1	22.36	23.22	23.54	23.29	24.15	24.47
			12	6	22.39	23.29	23.54	23.32	24.22	24.47
			24	0	22.26	22.31	22.69	23.19	23.24	23.62
	QPSK		1	0	22.25	22.24	22.59	23.18	23.17	23.52
			1	1	23.16	23.16	23.63	24.09	24.09	24.56
			12	6	23.38	23.28	23.62	24.31	24.21	24.55
			24	0	22.43	22.34	22.71	23.36	23.27	23.64



	16QAM		1	0	21.19	21.26	21.61	22.12	22.19	22.54
			1	1	22.21	22.29	22.72	23.14	23.22	23.65
			12	6	22.36	22.30	22.61	23.29	23.23	23.54
			24	0	21.46	21.32	21.70	22.39	22.25	22.63
	64QAM		1	0	20.83	20.95	21.36	21.76	21.88	22.29
			1	1	20.97	20.79	21.31	21.90	21.72	22.24
			12	6	20.86	20.78	21.14	21.79	21.71	22.07
			24	0	20.85	20.82	21.17	21.78	21.75	22.10
	256QAM		1	0	19.12	18.97	19.36	20.05	19.90	20.29
			1	1	19.13	19.02	19.27	20.06	19.95	20.20
			12	6	19.01	18.97	19.34	19.94	19.90	20.27
			24	0	18.96	18.95	19.31	19.89	19.88	20.24
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					500700	518598	536496	500700	518598	536496
					2504	2593	2682	2504	2593	2682
15	PI/2 BPSK	30	1	0	22.21	22.14	22.42	23.14	23.07	23.35
			1	1	23.23	23.17	23.42	24.16	24.10	24.35
			18	9	23.46	23.34	23.63	24.39	24.27	24.56
			36	0	22.41	22.40	22.61	23.34	23.33	23.54
	QPSK		1	0	22.15	22.19	22.49	23.08	23.12	23.42
			1	1	23.23	23.18	23.50	24.16	24.11	24.43
			18	9	23.42	23.35	23.62	24.35	24.28	24.55
			36	0	22.40	22.36	22.62	23.33	23.29	23.55
	16QAM		1	0	21.24	21.23	21.58	22.17	22.16	22.51
			1	1	22.29	22.24	22.55	23.22	23.17	23.48
			18	9	22.47	22.39	22.74	23.40	23.32	23.67
			36	0	21.36	21.30	21.56	22.29	22.23	22.49
	64QAM		1	0	20.76	20.94	21.23	21.69	21.87	22.16
			1	1	20.98	20.92	21.28	21.91	21.85	22.21
			18	9	20.87	20.85	21.12	21.80	21.78	22.05
			36	0	20.92	20.82	21.17	21.85	21.75	22.10
	256QAM		1	0	19.16	18.97	19.42	20.09	19.90	20.35
			1	1	19.24	19.05	18.24	20.17	19.98	19.17
			18	9	19.06	18.97	19.20	19.99	19.90	20.13
			36	0	19.02	19.04	19.28	19.95	19.97	20.21
Bandwidth(MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					501204	518598	535998	501204	518598	535998
					2506	2593	2680	2506	2593	2680
20	PI/2 BPSK	30	1	0	22.18	22.05	22.37	23.11	22.98	23.30



	QPSK	30	1	1	23.15	23.15	23.36	24.08	24.08	24.29	
			25	12	23.47	23.37	23.61	24.40	24.30	24.54	
			50	0	22.38	22.36	22.59	23.31	23.29	23.52	
			1	0	22.12	22.18	22.34	23.05	23.11	23.27	
			1	1	23.12	23.07	22.36	24.05	24.00	23.29	
			25	12	23.46	23.33	23.62	24.39	24.26	24.55	
	16QAM		50	0	22.40	22.35	22.57	23.33	23.28	23.50	
			1	0	21.06	21.19	21.46	21.99	22.12	22.39	
			1	1	22.18	22.35	22.52	23.11	23.28	23.45	
			25	12	22.38	22.31	22.52	23.31	23.24	23.45	
	64QAM		50	0	21.38	21.35	21.63	22.31	22.28	22.56	
			1	0	20.85	20.84	21.15	21.78	21.77	22.08	
			1	1	20.83	20.96	21.14	21.76	21.89	22.07	
			25	12	20.97	20.94	21.02	21.90	21.87	21.95	
	256QAM		50	0	20.86	20.85	21.12	21.79	21.78	22.05	
			1	0	19.06	18.97	19.21	19.99	19.90	20.14	
1		1	19.12	19.01	19.06	20.05	19.94	19.99			
25		12	19.08	18.97	19.26	20.01	19.90	20.19			
			50	0	19.04	18.96	19.24	19.97	19.89	20.17	
	Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						502200	518598	534996	502200	518598	534996
						2511	2593	2675	2511	2593	2675
30	PI/2 BPSK	30	1	0	21.97	21.87	22.07	22.90	22.80	23.00	
			1	1	22.95	22.91	23.12	23.88	23.84	24.05	
			36	18	23.42	23.34	23.51	24.35	24.27	24.44	
			75	0	22.35	22.29	22.49	23.28	23.22	23.42	
	QPSK		1	0	21.90	21.97	22.09	22.83	22.90	23.02	
			1	1	22.97	22.91	23.13	23.90	23.84	24.06	
			36	18	23.41	23.35	23.66	24.34	24.28	24.59	
	16QAM		75	0	22.34	22.26	22.51	23.27	23.19	23.44	
			1	0	21.00	20.95	21.24	21.93	21.88	22.17	
			1	1	22.04	21.89	22.19	22.97	22.82	23.12	
	64QAM		36	18	22.39	22.33	22.52	23.32	23.26	23.45	
			75	0	21.31	21.26	21.53	22.24	22.19	22.46	
			1	0	20.18	20.60	20.99	21.11	21.53	21.92	
	256QAM		1	1	20.32	20.67	20.98	21.25	21.60	21.91	
			36	18	21.01	20.84	21.16	21.94	21.77	22.09	
			75	0	20.88	20.77	21.17	21.81	21.70	22.10	
			1	0	18.98	18.80	19.07	19.91	19.73	20.00	
			1	1	18.73	18.85	18.91	19.66	19.78	19.84	



			36	18	19.10	18.95	19.10	20.03	19.88	20.03
			75	0	18.96	18.92	19.12	19.89	19.85	20.05

DC_66A_n41A											
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						500202	518598	537000	500202	518598	537000
						2501.01	2592.99	2685	2501.01	2592.99	2685
10	PI/2 BPSK	Band66-10MHz-174 5MHz-QPSK-1#0	30	1	0	22.13	22.27	22.47	23.06	23.20	23.40
				1	1	23.17	23.25	23.59	24.10	24.18	24.52
				12	6	23.26	23.36	23.57	24.19	24.29	24.50
				24	0	22.37	22.38	22.60	23.30	23.31	23.53
	QPSK			1	0	22.13	22.26	22.59	23.06	23.19	23.52
				1	1	23.12	23.24	23.54	24.05	24.17	24.47
				12	6	23.26	23.31	23.57	24.19	24.24	24.50
				24	0	22.31	22.36	22.65	23.24	23.29	23.58
	16QAM			1	0	20.98	21.06	21.41	21.91	21.99	22.34
				1	1	21.97	22.15	22.34	22.90	23.08	23.27
				12	6	22.37	22.36	22.74	23.30	23.29	23.67
				24	0	21.26	21.32	21.62	22.19	22.25	22.55
	64QAM			1	0	20.24	20.72	20.95	21.17	21.65	21.88
				1	1	20.20	20.67	20.62	21.13	21.60	21.55
				12	6	20.74	20.78	21.12	21.67	21.71	22.05
				24	0	20.75	20.79	21.07	21.68	21.72	22.00
256QAM	1	0	18.60	19.04	18.96	19.53	19.97	19.89			
	1	1	18.96	18.63	19.24	19.89	19.56	20.17			
	12	6	18.96	18.96	19.26	19.89	19.89	20.19			
	24	0	18.92	18.98	19.26	19.85	19.91	20.19			
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						500700	518598	536496	500700	518598	536496
						2503.5	2592.99	2682.48	2503.5	2592.99	2682.48
15	PI/2 BPSK	Band66-10MHz-174 5MHz-QPSK-1#0	30	1	0	22.10	22.24	22.37	23.03	23.17	23.30
				1	1	23.12	23.17	23.36	24.05	24.10	24.29
				18	9	23.34	23.30	23.60	24.27	24.23	24.53
				36	0	22.39	22.36	22.57	23.32	23.29	23.50
	QPSK			1	0	22.17	22.20	22.42	23.10	23.13	23.35
				1	1	23.12	23.25	23.40	24.05	24.18	24.33
				18	9	23.34	23.34	23.56	24.27	24.27	24.49
				36	0	22.32	22.31	22.55	23.25	23.24	23.48
16QAM	1	0	20.89	21.06	21.35	21.82	21.99	22.28			



Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						501204	518598	535998	501204	518598	535998
						2506.02	2592.99	2679.99	2506.02	2592.99	2679.99
20	64QAM	Band66-10MHz-174 5MHz-QPSK-1#0	30	1	1	21.97	22.05	22.34	22.90	22.98	23.27
				18	9	22.37	22.30	22.57	23.30	23.23	23.50
				36	0	21.33	21.31	21.54	22.26	22.24	22.47
				1	0	20.26	20.31	20.92	21.19	21.24	21.85
	1			1	20.24	20.33	20.57	21.17	21.26	21.50	
	18			9	20.81	20.82	21.09	21.74	21.75	22.02	
	36			0	20.86	20.84	21.04	21.79	21.77	21.97	
	1			0	18.64	18.97	18.91	19.57	19.90	19.84	
	1			1	18.61	18.96	19.12	19.54	19.89	20.05	
	18			9	19.01	19.02	19.23	19.94	19.95	20.16	
	36			0	18.97	18.95	19.17	19.90	19.88	20.10	
	20			PI/2 BPSK	Band66-10MHz-174 5MHz-QPSK-1#0	30	1	0	22.01	22.14	22.29
1		1	23.06				23.15	23.27	23.99	24.08	24.20
25		12	23.36				23.37	23.57	24.29	24.30	24.50
50		0	22.31				22.34	22.54	23.24	23.27	23.47
QPSK		1	0	22.03			22.09	22.31	22.96	23.02	23.24
		1	1	23.04			23.11	23.24	23.97	24.04	24.17
		25	12	23.38			23.34	23.60	24.31	24.27	24.53
		50	0	22.31			22.30	22.53	23.24	23.23	23.46
16QAM		1	0	21.00			20.89	21.07	21.93	21.82	22.00
		1	1	21.96			21.97	22.23	22.89	22.90	23.16
		25	12	22.34			22.32	22.59	23.27	23.25	23.52
		50	0	21.27			21.23	21.46	22.20	22.16	22.39
64QAM		1	0	20.15			20.56	20.43	21.08	21.49	21.36
		1	1	20.18			20.21	20.45	21.11	21.14	21.38
		25	12	20.89			20.87	21.07	21.82	21.80	22.00
		50	0	20.82			20.79	21.06	21.75	21.72	21.99
256QAM	1	0	18.47	18.57	19.02	19.40	19.50	19.95			
	1	1	18.49	18.61	18.76	19.42	19.54	19.69			
	25	12	18.98	18.95	19.21	19.91	19.88	20.14			
	50	0	18.97	18.97	19.25	19.90	19.90	20.18			
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						502200	518598	534996	502200	518598	534996
						2511	2592.99	2674.98	2511	2592.99	2674.98
30	PI/2 BPSK	Band66-10MHz-174 5MHz-QPSK-1#0	30	1	0	21.92	21.99	22.07	22.85	22.92	23.00
				1	1	22.89	23.04	23.05	23.82	23.97	23.98



	QPSK	36	18	23.36	23.31	23.46	24.29	24.24	24.39
		75	0	22.26	22.29	22.41	23.19	23.22	23.34
		1	0	21.85	21.95	22.11	22.78	22.88	23.04
		1	1	22.93	22.96	23.12	23.86	23.89	24.05
		36	18	23.37	23.29	23.63	24.30	24.22	24.56
		75	0	22.26	22.27	22.38	23.19	23.20	23.31
	16QAM	1	0	20.79	20.96	21.07	21.72	21.89	22.00
		1	1	21.75	21.80	22.01	22.68	22.73	22.94
		36	18	22.38	22.30	22.41	23.31	23.23	23.34
		75	0	21.27	21.26	21.37	22.20	22.19	22.30
		1	0	20.01	20.09	20.69	20.94	21.02	21.62
		1	1	20.03	20.02	20.76	20.96	20.95	21.69
	64QAM	36	18	20.87	20.79	21.10	21.80	21.72	22.03
		75	0	20.79	20.72	21.02	21.72	21.65	21.95
		1	0	18.67	18.71	18.80	19.60	19.64	19.73
		1	1	18.35	18.40	18.54	19.28	19.33	19.47
		36	18	18.96	18.92	19.04	19.89	19.85	19.97
		75	0	18.89	18.89	19.01	19.82	19.82	19.94

NR n66										
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					342500	349000	355500	342500	349000	355500
					1712.5	1745	1777.5	1712.5	1745	1777.5
5	PI/2 BPSK	15	1	0	22.57	21.71	21.68	21.83	20.97	20.94
			1	1	22.52	22.65	22.62	21.78	21.91	21.88
			12	6	22.62	22.72	22.67	21.88	21.98	21.93
			25	0	21.69	21.67	21.73	20.95	20.93	20.99
	QPSK		1	0	21.56	21.68	21.63	20.82	20.94	20.89
			1	1	22.63	22.70	22.69	21.89	21.96	21.95
			12	6	22.71	22.73	22.76	21.97	21.99	22.02
			25	0	21.69	21.76	21.72	20.95	21.02	20.98
	16QAM		1	0	20.92	20.95	20.91	20.18	20.21	20.17
			1	1	21.83	21.74	21.97	21.09	21.00	21.23
			12	6	21.68	21.79	21.71	20.94	21.05	20.97
			25	0	20.72	20.71	20.72	19.98	19.97	19.98
	64QAM		1	0	20.21	20.29	20.27	19.47	19.55	19.53
			1	1	20.20	20.27	20.20	19.46	19.53	19.46
			12	6	20.34	20.34	20.30	19.60	19.60	19.56
			25	0	20.29	20.37	20.36	19.55	19.63	19.62
256QAM	1	0	18.11	18.27	18.10	17.37	17.53	17.36		



Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					343000	349000	355000	343000	349000	355000
					1715	1745	1775	1715	1745	1775
			1	1	18.10	18.16	18.12	17.36	17.42	17.38
			12	6	18.17	18.30	18.24	17.43	17.56	17.50
			25	0	18.24	18.25	18.34	17.50	17.51	17.60
10	PI/2 BPSK	15	1	0	21.45	21.48	21.55	20.71	20.74	20.81
			1	1	22.46	22.37	22.54	21.72	21.63	21.80
			25	12	22.62	22.62	22.62	21.88	21.88	21.88
			50	0	21.55	21.53	21.59	20.81	20.79	20.85
	QPSK		1	0	21.44	21.46	21.49	20.70	20.72	20.75
			1	1	22.49	22.53	22.47	21.75	21.79	21.73
			25	12	22.58	22.61	22.63	21.84	21.87	21.89
			50	0	21.49	21.60	21.60	20.75	20.86	20.86
	16QAM		1	0	20.74	20.73	20.78	20.00	19.99	20.04
			1	1	21.71	21.75	21.75	20.97	21.01	21.01
			25	12	21.63	21.65	21.65	20.89	20.91	20.91
			50	0	20.52	20.56	20.50	19.78	19.82	19.76
	64QAM		1	0	20.11	20.10	20.13	19.37	19.36	19.39
			1	1	20.13	20.01	20.19	19.39	19.27	19.45
			25	12	20.23	20.23	20.22	19.49	19.49	19.48
			50	0	20.12	20.17	20.14	19.38	19.43	19.40
	256QAM		1	0	18.03	17.98	18.16	17.29	17.24	17.42
			1	1	18.07	18.00	18.13	17.33	17.26	17.39
			25	12	18.24	18.16	18.15	17.50	17.42	17.41
			50	0	18.04	18.09	18.14	17.30	17.35	17.40
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					343500	349000	354500	343500	349000	354500
					1717.5	1745	1772.5	1717.5	1745	1772.5
15	PI/2 BPSK	15	1	0	21.56	21.63	21.60	20.82	20.89	20.86
			1	1	22.53	22.61	22.51	21.79	21.87	21.77
			36	18	22.71	22.79	22.70	21.97	22.05	21.96
			75	0	21.64	21.74	21.72	20.90	21.00	20.98
	QPSK		1	0	21.54	21.58	21.53	20.80	20.84	20.79
			1	1	22.52	22.55	22.51	21.78	21.81	21.77
			36	18	22.65	22.72	22.64	21.91	21.98	21.90
			75	0	21.66	21.73	21.71	20.92	20.99	20.97
	16QAM		1	0	20.78	20.85	20.76	20.04	20.11	20.02
			1	1	21.75	21.80	21.74	21.01	21.06	21.00



	64QAM		36	18	20.61	21.65	21.63	19.87	20.91	20.89	
			75	0	20.69	20.73	20.75	19.95	19.99	20.01	
			1	0	20.26	20.21	20.16	19.52	19.47	19.42	
			1	1	20.19	20.15	20.24	19.45	19.41	19.50	
			36	18	20.34	20.42	20.32	19.60	19.68	19.58	
			75	0	20.37	20.43	20.30	19.63	19.69	19.56	
	256QAM			1	0	18.16	18.14	18.15	17.42	17.40	17.41
				1	1	18.10	18.15	18.12	17.36	17.41	17.38
				36	18	18.37	18.38	18.33	17.63	17.64	17.59
				75	0	18.28	18.31	18.27	17.54	17.57	17.53
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)			
					344000	349000	354000	344000	349000	354000	
					1720	1745	1770	1720	1745	1770	
20	PI/2 BPSK	15	1	0	21.54	21.57	21.56	20.80	20.83	20.82	
			1	1	22.53	22.56	22.47	21.79	21.82	21.73	
			50	25	22.74	22.80	22.81	22.00	22.06	22.07	
			100	0	21.62	21.78	21.74	20.88	21.04	21.00	
	QPSK		1	0	21.46	21.56	21.65	20.72	20.82	20.91	
			1	1	22.49	22.52	22.57	21.75	21.78	21.83	
			50	25	22.75	22.79	22.75	22.01	22.05	22.01	
	16QAM		100	0	21.63	21.72	21.70	20.89	20.98	20.96	
			1	0	20.68	20.83	20.79	19.94	20.09	20.05	
			1	1	21.71	21.87	21.80	20.97	21.13	21.06	
	64QAM		50	25	21.69	21.76	21.76	20.95	21.02	21.02	
			100	0	20.62	20.78	20.69	19.88	20.04	19.95	
			1	0	20.11	20.17	20.19	19.37	19.43	19.45	
	256QAM		1	1	20.12	20.20	20.17	19.38	19.46	19.43	
			50	25	20.30	20.32	20.43	19.56	19.58	19.69	
			100	0	20.32	20.36	20.35	19.58	19.62	19.61	
			1	0	18.06	18.31	18.14	17.32	17.57	17.40	
			1	1	18.40	18.07	18.24	17.66	17.33	17.50	
		50	25	18.34	18.25	18.31	17.60	17.51	17.57		
		100	0	18.21	18.31	18.37	17.47	17.57	17.63		
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)			
					344500	349000	353500	344500	349000	353500	
					1722.5	1745	1767.5	1722.5	1745	1767.5	
25	PI/2 BPSK	15	1	0	21.59	21.52	21.69	20.85	20.78	20.95	
			1	1	22.65	22.51	22.72	21.91	21.77	21.98	
			64	32	22.87	23.02	23.07	22.13	22.28	22.33	



	QPSK		128	0	21.79	21.86	21.95	21.05	21.12	21.21
			1	0	21.64	21.49	21.70	20.90	20.75	20.96
			1	1	22.76	22.57	22.71	22.02	21.83	21.97
			64	32	22.84	22.96	23.04	22.10	22.22	22.30
	128		0	21.91	21.84	21.93	21.17	21.10	21.19	
	16QAM		1	0	20.92	20.74	20.97	20.18	20.00	20.23
			1	1	21.97	21.75	21.61	21.23	21.01	20.87
			64	32	21.87	21.92	22.02	21.13	21.18	21.28
	64QAM		128	0	20.81	20.89	20.93	20.07	20.15	20.19
			1	0	20.03	20.00	20.61	19.29	19.26	19.87
			1	1	20.12	20.03	20.23	19.38	19.29	19.49
			64	32	20.31	20.35	20.49	19.57	19.61	19.75
	256QAM		128	0	20.32	20.34	20.43	19.58	19.60	19.69
			1	0	18.31	18.23	18.22	17.57	17.49	17.48
			1	1	18.26	18.12	18.24	17.52	17.38	17.50
			64	32	18.47	18.58	18.65	17.73	17.84	17.91
			128	0	18.40	18.48	18.51	17.66	17.74	17.77
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
					345000	349000	353000	345000	349000	353000
					1725	1745	1765	1725	1745	1765
30	PI/2 BPSK	15	1	0	21.67	21.37	21.49	20.93	20.63	20.75
			1	1	22.53	22.51	22.58	21.79	21.77	21.84
			80	40	22.84	22.95	23.11	22.10	22.21	22.37
			160	0	21.85	21.90	21.97	21.11	21.16	21.23
	QPSK		1	0	21.60	21.36	21.69	20.86	20.62	20.95
			1	1	22.64	22.42	22.72	21.90	21.68	21.98
			80	40	22.92	22.94	23.03	22.18	22.20	22.29
	16QAM		160	0	21.77	21.93	21.96	21.03	21.19	21.22
			1	0	20.71	20.65	20.77	19.97	19.91	20.03
			1	1	21.75	21.76	21.83	21.01	21.02	21.09
			80	40	21.92	22.05	22.14	21.18	21.31	21.40
	64QAM		160	0	20.73	20.93	20.95	19.99	20.19	20.21
			1	0	19.98	19.97	19.94	19.24	19.23	19.20
			1	1	19.96	19.91	20.54	19.22	19.17	19.80
			80	40	20.36	20.51	20.57	19.62	19.77	19.83
	256QAM		160	0	20.25	20.40	20.45	19.51	19.66	19.71
1		0	18.32	18.17	18.13	17.58	17.43	17.39		
1		1	18.35	18.13	18.25	17.61	17.39	17.51		
80		40	18.47	18.51	18.62	17.73	17.77	17.88		
			160	0	18.43	18.56	18.57	17.69	17.82	17.83



DC_5A_n66A

Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						342500	349000	355500	342500	349000	355500
						1712.5	1745	1777.5	1712.5	1745	1777.5
5	PI/2 BPSK	Band5-10MHz-836.5MHz-QPSK-1#0	15	1	0	22.02	21.97	22.10	21.28	21.23	21.36
				1	1	23.01	22.94	23.02	22.27	22.20	22.28
				12	6	23.12	23.09	23.16	22.38	22.35	22.42
				25	0	22.09	22.06	22.16	21.35	21.32	21.42
	QPSK			1	0	22.01	21.50	22.06	21.27	20.76	21.32
				1	1	22.98	22.48	23.04	22.24	21.74	22.30
				12	6	23.13	23.11	23.17	22.39	22.37	22.43
				25	0	22.13	22.11	22.17	21.39	21.37	21.43
	16QAM			1	0	20.93	20.91	20.94	20.19	20.17	20.20
				1	1	21.96	21.97	22.00	21.22	21.23	21.26
				12	6	22.14	22.16	22.18	21.40	21.42	21.44
				25	0	21.11	21.09	21.17	20.37	20.35	20.43
	64QAM			1	0	20.20	20.33	20.32	19.46	19.59	19.58
				1	1	20.23	20.38	20.36	19.49	19.64	19.62
				12	6	20.63	20.65	20.72	19.89	19.91	19.98
				25	0	20.63	20.61	20.67	19.89	19.87	19.93
256QAM	1	0	19.02	18.96	19.01	18.28	18.22	18.27			
	1	1	18.96	18.95	19.02	18.22	18.21	18.28			
	12	6	18.69	18.75	18.76	17.95	18.01	18.02			
	25	0	18.65	18.68	18.73	17.91	17.94	17.99			
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						343000	349000	355000	343000	349000	355000
						1715	1745	1775	1715	1745	1775
10	PI/2 BPSK	Band5-10MHz-836.5MHz-QPSK-1#0	15	1	0	21.84	21.31	21.86	21.10	20.57	21.12
				1	1	22.83	22.29	22.85	22.09	21.55	22.11
				25	12	22.95	22.96	23.05	22.21	22.22	22.31
				50	0	21.94	21.94	22.02	21.20	21.20	21.28
	QPSK			1	0	21.84	21.30	21.90	21.10	20.56	21.16
				1	1	22.83	22.26	22.86	22.09	21.52	22.12
				25	12	22.96	22.93	23.02	22.22	22.19	22.28
				50	0	21.93	21.98	21.97	21.19	21.24	21.23
	16QAM			1	0	20.74	20.14	20.77	20.00	19.40	20.03
				1	1	21.72	21.21	21.76	20.98	20.47	21.02
				25	12	21.96	21.99	22.07	21.22	21.25	21.33



Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						343500	349000	354500	343500	349000	354500
						1717.5	1745	1772.5	1717.5	1745	1772.5
64QAM	64QAM	Band5-10MHz-836.5MHz-QPSK-1#0	15	50	0	20.94	21.00	21.01	20.20	20.26	20.27
				1	0	20.01	19.87	20.08	19.27	19.13	19.34
				1	1	20.02	19.79	20.06	19.28	19.05	19.32
				25	12	20.45	20.45	20.56	19.71	19.71	19.82
	50			0	20.41	20.44	20.47	19.67	19.70	19.73	
	256QAM			1	0	18.79	18.76	18.84	18.05	18.02	18.10
				1	1	18.82	18.74	18.81	18.08	18.00	18.07
				25	12	18.56	18.51	18.65	17.82	17.77	17.91
50		0	18.51	18.56	18.55	17.77	17.82	17.81			
15	PI/2 BPSK	Band5-10MHz-836.5MHz-QPSK-1#0	15	1	0	21.48	21.41	21.49	20.74	20.67	20.75
				1	1	22.47	22.37	22.48	21.73	21.63	21.74
				36	18	23.10	23.07	23.13	22.36	22.33	22.39
				75	0	22.08	22.16	22.13	21.34	21.42	21.39
	QPSK			1	0	21.52	21.42	21.48	20.78	20.68	20.74
				1	1	22.49	22.40	22.50	21.75	21.66	21.76
				36	18	23.07	23.12	23.15	22.33	22.38	22.41
				75	0	22.06	22.17	22.16	21.32	21.43	21.42
	16QAM			1	0	20.35	20.26	20.37	19.61	19.52	19.63
				1	1	21.34	21.27	21.37	20.60	20.53	20.63
				36	18	22.16	22.14	22.21	21.42	21.40	21.47
				75	0	21.12	21.14	21.16	20.38	20.40	20.42
	64QAM			1	0	19.97	19.98	20.19	19.23	19.24	19.45
				1	1	19.85	20.26	20.12	19.11	19.52	19.38
				36	18	20.59	20.61	20.65	19.85	19.87	19.91
				75	0	20.57	20.56	20.58	19.83	19.82	19.84
	256QAM			1	0	18.94	18.87	18.94	18.20	18.13	18.20
				1	1	18.95	18.83	18.93	18.21	18.09	18.19
				36	18	18.68	18.67	18.77	17.94	17.93	18.03
				75	0	18.67	18.65	18.71	17.93	17.91	17.97
20	PI/2 BPSK	Band5-10MHz-836.5MHz-QPSK-1#0	15	1	0	21.44	21.32	21.45	20.70	20.58	20.71
				1	1	22.41	22.36	22.47	21.67	21.62	21.73
				50	25	23.04	23.12	23.18	22.30	22.38	22.44
100				0	22.05	22.18	22.13	21.31	21.44	21.39	



Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			EIRP (dBm)		
						344500	349000	353500	344500	349000	353500
						1722.5	1745	1767.5	1722.5	1745	1767.5
25	QPSK	Band5-10MHz-836.5MHz-QPSK-1#0	15	1	0	21.43	21.31	21.48	20.69	20.57	20.74
				1	1	22.41	22.35	22.43	21.67	21.61	21.69
				50	25	23.04	23.10	23.15	22.30	22.36	22.41
				100	0	22.07	22.19	22.16	21.33	21.45	21.42
	16QAM			1	0	20.30	20.19	20.84	19.56	19.45	20.10
				1	1	21.33	21.26	21.39	20.59	20.52	20.65
				50	25	22.13	22.20	22.21	21.39	21.46	21.47
				100	0	21.04	21.15	21.18	20.30	20.41	20.44
	64QAM			1	0	19.83	19.84	20.33	19.09	19.10	19.59
				1	1	19.85	19.82	19.84	19.11	19.08	19.10
				50	25	20.56	20.54	20.61	19.82	19.80	19.87
				100	0	20.54	20.59	20.60	19.80	19.85	19.86
	256QAM			1	0	18.90	18.78	18.94	18.16	18.04	18.20
				1	1	18.92	18.79	18.95	18.18	18.05	18.21
				50	25	18.63	18.69	18.80	17.89	17.95	18.06
				100	0	18.64	18.70	18.77	17.90	17.96	18.03
25	PI/2 BPSK	Band5-10MHz-836.5MHz-QPSK-1#0	15	1	0	21.45	21.23	21.45	20.71	20.49	20.71
				1	1	22.47	22.25	22.39	21.73	21.51	21.65
				64	32	23.06	23.21	23.24	22.32	22.47	22.50
				128	0	22.01	22.11	22.17	21.27	21.37	21.43
	QPSK			1	0	21.42	21.25	21.43	20.68	20.51	20.69
				1	1	22.45	22.26	22.42	21.71	21.52	21.68
				64	32	23.10	23.17	23.25	22.36	22.43	22.51
				128	0	21.99	22.18	22.15	21.25	21.44	21.41
	16QAM			1	0	20.35	20.15	20.33	19.61	19.41	19.59
				1	1	21.31	21.13	21.31	20.57	20.39	20.57
				64	32	22.13	22.21	22.27	21.39	21.47	21.53
				128	0	21.09	21.19	21.20	20.35	20.45	20.46
	64QAM			1	0	19.81	19.75	19.80	19.07	19.01	19.06
				1	1	19.82	19.76	19.82	19.08	19.02	19.08
				64	32	20.53	20.63	20.70	19.79	19.89	19.96
				128	0	20.52	20.65	20.63	19.78	19.91	19.89
256QAM	1	0	18.88	18.69	18.91	18.14	17.95	18.17			
	1	1	18.92	18.69	18.90	18.18	17.95	18.16			
	64	32	18.72	18.75	18.87	17.98	18.01	18.13			
	128	0	18.57	18.67	18.79	17.83	17.93	18.05			
Bandwidth	Modulation	Modulation	SCS	RB	RB	Maximum Output			EIRP (dBm)		



(MHz)		(LTE)	(KHz)	Allocation	Offset	Power(dBm)					
						345000	349000	353000	345000	349000	353000
						1725	1745	1765	1725	1745	1765
30	PI/2 BPSK	Band5-10MHz-836.5MHz-QPSK-1#0	15	1	0	21.26	21.09	21.26	20.52	20.35	20.52
				1	1	22.78	22.08	22.20	22.04	21.34	21.46
				80	40	23.01	23.17	23.17	22.27	22.43	22.43
				160	0	21.92	22.05	22.06	21.18	21.31	21.32
	QPSK			1	0	21.25	21.09	21.27	20.51	20.35	20.53
				1	1	22.28	22.10	22.24	21.54	21.36	21.50
				80	40	23.05	23.16	23.27	22.31	22.42	22.53
				160	0	21.95	22.05	22.04	21.21	21.31	21.30
	16QAM			1	0	20.64	20.00	20.16	19.90	19.26	19.42
				1	1	21.70	21.03	21.15	20.96	20.29	20.41
				80	40	22.01	20.15	22.20	21.27	19.41	21.46
				160	0	20.92	21.02	21.10	20.18	20.28	20.36
	64QAM			1	0	19.63	20.14	20.05	18.89	19.40	19.31
				1	1	19.95	19.96	20.01	19.21	19.22	19.27
				80	40	20.47	20.64	20.64	19.73	19.90	19.90
				160	0	20.43	20.58	20.58	19.69	19.84	19.84
	256QAM			1	0	18.74	18.54	18.71	18.00	17.80	17.97
				1	1	18.71	18.59	18.74	17.97	17.85	18.00
				80	40	18.63	18.76	18.73	17.89	18.02	17.99
				160	0	18.58	18.63	18.66	17.84	17.89	17.92

NR n71										
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
					133100	136100	139100	133100	136100	139100
					665.5	680.5	695.5	665.5	680.5	695.5
5	PI/2 BPSK	15	1	0	22.14	21.95	21.92	15.53	15.34	15.31
			1	1	23.01	22.94	22.97	16.40	16.33	16.36
			12	6	23.03	22.91	22.93	16.42	16.30	16.32
			25	0	22.04	21.93	21.97	15.43	15.32	15.36
	QPSK		1	0	22.11	21.91	21.94	15.50	15.30	15.33
			1	1	23.03	22.89	22.97	16.42	16.28	16.36
			12	6	23.02	22.90	22.85	16.41	16.29	16.24
			25	0	22.04	21.92	21.95	15.43	15.31	15.34
	16QAM		1	0	21.05	20.89	20.83	14.44	14.28	14.22
			1	1	22.00	21.86	21.97	15.39	15.25	15.36
			12	6	21.94	21.96	21.85	15.33	15.35	15.24



Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)			
					133600	136100	138600	133600	136100	138600	
					668	680.5	693	668	680.5	693	
10	64QAM	15	25	0	21.04	20.83	20.91	14.43	14.22	14.30	
			1	0	20.77	20.71	20.61	14.16	14.10	14.00	
			1	1	20.69	20.69	20.57	14.08	14.08	13.96	
			12	6	20.50	20.41	20.35	13.89	13.80	13.74	
	25		0	20.61	20.47	20.49	14.00	13.86	13.88		
	256QAM		1	0	18.46	18.37	18.33	11.85	11.76	11.72	
			1	1	18.47	18.38	18.34	11.86	11.77	11.73	
			12	6	18.63	18.55	18.51	12.02	11.94	11.90	
			25	0	18.61	18.50	18.50	12.00	11.89	11.89	
	10		PI/2 BPSK	1	0	21.94	21.73	21.60	15.33	15.12	14.99
				1	1	22.83	22.69	22.62	16.22	16.08	16.01
				25	12	22.84	22.79	22.75	16.23	16.18	16.14
				50	0	21.82	21.76	21.72	15.21	15.15	15.11
			QPSK	1	0	21.85	21.73	21.67	15.24	15.12	15.06
				1	1	22.79	22.77	22.65	16.18	16.16	16.04
				25	12	22.82	22.75	22.71	16.21	16.14	16.10
50		0		21.84	21.76	21.74	15.23	15.15	15.13		
16QAM		1	0	20.87	20.65	20.58	14.26	14.04	13.97		
		1	1	21.73	21.71	21.57	15.12	15.10	14.96		
		25	12	21.82	21.71	21.69	15.21	15.10	15.08		
		50	0	20.86	20.69	20.73	14.25	14.08	14.12		
64QAM		1	0	20.63	20.42	20.38	14.02	13.81	13.77		
		1	1	20.64	20.47	20.36	14.03	13.86	13.75		
		25	12	20.37	20.23	20.27	13.76	13.62	13.66		
		50	0	20.37	20.34	20.16	13.76	13.73	13.55		
256QAM	1	0	18.26	18.16	18.06	11.65	11.55	11.45			
	1	1	18.30	18.19	18.07	11.69	11.58	11.46			
	25	12	18.41	18.34	18.32	11.80	11.73	11.71			
	50	0	18.35	18.35	18.26	11.74	11.74	11.65			
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)			
					134100	136100	138100	134100	136100	138100	
					670.5	680.5	690.5	670.5	680.5	690.5	
15	PI/2 BPSK	15	1	0	21.96	21.89	21.77	15.35	15.28	15.16	
			1	1	22.95	22.96	22.72	16.34	16.35	16.11	
			36	18	22.94	22.99	22.90	16.33	16.38	16.29	
			75	0	21.94	21.94	21.86	15.33	15.33	15.25	



	QPSK		1	0	21.97	21.85	21.79	15.36	15.24	15.18
			1	1	22.96	22.80	22.83	16.35	16.19	16.22
			36	18	23.01	22.95	22.92	16.40	16.34	16.31
			75	0	21.97	21.93	21.90	15.36	15.32	15.29
	16QAM		1	0	20.96	20.78	20.72	14.35	14.17	14.11
			1	1	21.90	21.87	21.73	15.29	15.26	15.12
			36	18	22.05	22.01	21.97	15.44	15.40	15.36
			75	0	20.92	20.94	20.91	14.31	14.33	14.30
	64QAM		1	0	20.65	20.69	20.46	14.04	14.08	13.85
			1	1	20.63	20.70	20.45	14.02	14.09	13.84
			36	18	20.54	20.47	20.36	13.93	13.86	13.75
			75	0	20.47	20.43	20.37	13.86	13.82	13.76
	256QAM		1	0	18.40	18.39	18.23	11.79	11.78	11.62
			1	1	18.74	18.36	18.29	12.13	11.75	11.68
			36	18	18.62	18.54	18.46	12.01	11.93	11.85
			75	0	18.51	18.48	18.45	11.90	11.87	11.84
Bandwidth (MHz)	Modulation	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
					134600	136100	137600	134600	136100	137600
					673	680.5	688	673	680.5	688
20	PI/2 BPSK	15	1	0	21.98	21.87	21.86	15.37	15.26	15.25
			1	1	22.96	22.87	22.75	16.35	16.26	16.14
			50	25	23.00	22.92	23.05	16.39	16.31	16.44
			100	0	21.88	21.92	21.90	15.27	15.31	15.29
	QPSK		1	0	21.86	21.94	21.86	15.25	15.33	15.25
			1	1	22.89	23.00	22.87	16.28	16.39	16.26
			50	25	22.97	22.96	22.96	16.36	16.35	16.35
			100	0	21.90	21.92	21.90	15.29	15.31	15.29
	16QAM		1	0	20.87	20.90	20.84	14.26	14.29	14.23
			1	1	21.93	21.85	21.82	15.32	15.24	15.21
			50	25	22.01	21.97	22.00	15.40	15.36	15.39
			100	0	20.86	20.92	20.91	14.25	14.31	14.30
	64QAM		1	0	20.69	20.63	20.43	14.08	14.02	13.82
			1	1	20.71	20.67	20.44	14.10	14.06	13.83
			50	25	20.49	20.43	20.62	13.88	13.82	14.01
			100	0	20.41	20.40	20.51	13.80	13.79	13.90
256QAM	1	0	18.32	18.33	18.27	11.71	11.72	11.66		
	1	1	18.34	18.38	18.28	11.73	11.77	11.67		
	50	25	18.22	18.51	18.49	11.61	11.90	11.88		
	100	0	18.43	18.45	18.48	11.82	11.84	11.87		



DC_66A_n71A											
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
						133100	136100	139100	133100	136100	139100
						665.5	680.5	695.5	665.5	680.5	695.5
5	PI/2 BPSK	Band66-10MHz-1745MHz-QPSK-1#0	15	1	0	21.65	21.59	21.49	15.04	14.98	14.88
				1	1	22.61	22.60	22.52	16.00	15.99	15.91
				12	6	23.11	23.09	23.03	16.50	16.48	16.42
				25	0	22.08	22.16	22.07	15.47	15.55	15.46
	QPSK			1	0	21.65	21.61	21.49	15.04	15.00	14.88
				1	1	22.23	22.16	22.52	15.62	15.55	15.91
				12	6	23.13	23.13	23.04	16.52	16.52	16.43
	16QAM			25	0	22.09	22.13	22.09	15.48	15.52	15.48
				1	0	20.56	20.56	20.34	13.95	13.95	13.73
				1	1	21.59	21.59	21.55	14.98	14.98	14.94
	64QAM			12	6	21.51	21.44	22.10	14.90	14.83	15.49
				25	0	21.13	21.12	21.06	14.52	14.51	14.45
				1	0	20.07	20.07	20.00	13.46	13.46	13.39
	256QAM			1	1	20.08	20.15	19.97	13.47	13.54	13.36
				12	6	20.54	20.55	20.50	13.93	13.94	13.89
				25	0	20.65	20.68	20.61	14.04	14.07	14.00
				1	0	18.69	18.70	18.69	12.08	12.09	12.08
				1	1	18.70	18.73	18.62	12.09	12.12	12.01
				12	6	18.65	18.74	18.58	12.04	12.13	11.97
				25	0	18.61	18.62	18.53	12.00	12.01	11.92

Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)					
						133600	136100	138600	133600	136100	138600			
						668	680.5	693	668	680.5	693			
10	PI/2 BPSK	Band66-10MHz-1745MHz-QPSK-1#0	15	1	0	21.40	21.41	21.27	14.79	14.80	14.66			
				1	1	22.43	22.43	22.28	15.82	15.82	15.67			
				25	12	22.93	22.93	22.82	16.32	16.32	16.21			
				50	0	21.97	21.92	21.87	15.36	15.31	15.26			
	QPSK			1	0	21.39	21.42	21.29	14.78	14.81	14.68			
				1	1	22.40	22.39	22.24	15.79	15.78	15.63			
				25	12	22.91	22.97	22.83	16.30	16.36	16.22			
	16QAM			50	0	21.95	21.96	21.82	15.34	15.35	15.21			
				1	0	20.33	20.31	20.15	13.72	13.70	13.54			
				1	1	21.42	21.36	21.50	14.81	14.75	14.89			
							25	12	21.98	22.01	21.86	15.37	15.40	15.25
							50	0	20.95	20.94	20.79	14.34	14.33	14.18



Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
						134100	136100	138100	134100	136100	138100
						670.5	680.5	690.5	670.5	680.5	690.5
15	64QAM	Band66-10MHz-1745MHz-QPSK-1#0	15	1	0	19.92	19.93	19.77	13.31	13.32	13.16
				1	1	19.89	19.95	19.79	13.28	13.34	13.18
				25	12	20.53	20.51	20.47	13.92	13.90	13.86
				50	0	20.08	20.37	20.30	13.47	13.76	13.69
	256QAM			1	0	18.47	18.55	18.38	11.86	11.94	11.77
				1	1	18.50	18.54	18.36	11.89	11.93	11.75
				25	12	18.43	18.47	18.34	11.82	11.86	11.73
				50	0	18.51	18.50	18.42	11.90	11.89	11.81
15	PI/2 BPSK	Band66-10MHz-1745MHz-QPSK-1#0	15	1	0	21.60	21.52	21.47	14.99	14.91	14.86
				1	1	22.55	22.50	22.42	15.94	15.89	15.81
				36	18	23.12	23.14	23.09	16.51	16.53	16.48
				75	0	22.14	22.09	22.02	15.53	15.48	15.41
	QPSK			1	0	21.58	21.50	21.43	14.97	14.89	14.82
				1	1	22.56	22.54	22.44	15.95	15.93	15.83
				36	18	23.09	23.11	23.07	16.48	16.50	16.46
				75	0	22.13	22.14	22.03	15.52	15.53	15.42
	16QAM			1	0	20.47	20.44	20.33	13.86	13.83	13.72
				1	1	21.42	21.54	21.46	14.81	14.93	14.85
				36	18	21.25	22.22	22.10	14.64	15.61	15.49
				75	0	21.08	21.05	20.95	14.47	14.44	14.34
	64QAM			1	0	20.07	20.06	20.01	13.46	13.45	13.40
				1	1	20.05	20.05	19.98	13.44	13.44	13.37
				36	18	20.59	20.59	20.54	13.98	13.98	13.93
				75	0	20.61	20.60	20.51	14.00	13.99	13.90
256QAM	1	0	18.66	18.65	18.52	12.05	12.04	11.91			
	1	1	18.59	18.59	18.53	11.98	11.98	11.92			
	36	18	18.64	18.70	18.58	12.03	12.09	11.97			
	75	0	18.67	18.69	18.56	12.06	12.08	11.95			
Bandwidth (MHz)	Modulation	Modulation (LTE)	SCS (KHz)	RB Allocation	RB Offset	Maximum Output Power(dBm)			ERP (dBm)		
						134600	136100	137600	134600	136100	137600
						673	680.5	688	673	680.5	688
20	PI/2 BPSK	Band66-10MHz-1745MHz-QPSK-1#0	15	1	0	21.47	21.44	21.44	14.86	14.83	14.83
				1	1	22.50	22.43	22.49	15.89	15.82	15.88
				50	25	23.09	23.16	23.05	16.48	16.55	16.44
				100	0	22.06	22.09	22.10	15.45	15.48	15.49
	QPSK			1	0	21.49	21.45	21.46	14.88	14.84	14.85



			1	1	22.49	22.44	22.49	15.88	15.83	15.88
			50	25	23.16	23.12	23.08	16.55	16.51	16.47
			100	0	22.07	22.15	22.07	15.46	15.54	15.46
	16QAM		1	0	20.54	20.32	20.34	13.93	13.71	13.73
			1	1	21.45	21.38	21.44	14.84	14.77	14.83
			50	25	22.14	22.17	22.12	15.53	15.56	15.51
			100	0	21.06	21.12	21.09	14.45	14.51	14.48
	64QAM		1	0	19.95	19.96	19.91	13.34	13.35	13.30
			1	1	19.96	19.87	19.94	13.35	13.26	13.33
			50	25	20.67	20.59	20.52	14.06	13.98	13.91
			100	0	20.57	20.57	20.56	13.96	13.96	13.95
	256QAM		1	0	18.60	18.53	18.60	11.99	11.92	11.99
			1	1	18.61	18.61	18.61	12.00	12.00	12.00
			50	25	18.68	18.67	18.62	12.07	12.06	12.01
			100	0	18.56	18.62	18.63	11.95	12.01	12.02



6.2 Occupied Bandwidth

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
WCDMA Band IV (RMC)	1312	1712.4	4.144	4.653
	1413	1732.6	4.141	4.671
	1513	1752.6	4.144	4.684

LTE Band 4						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	19957	1710.7	1.099	1.287
			20175	1732.5	1.095	1.296
			20393	1754.3	1.097	1.333
		3	19965	1711.5	2.696	2.952
			20175	1732.5	2.697	2.931
			20385	1753.5	2.697	2.939
		5	19975	1712.5	4.515	4.988
			20175	1732.5	4.513	4.930
			20375	1752.5	4.523	4.935
		10	20000	1715	8.977	9.740
			20175	1732.5	8.979	9.741
			20350	1750	8.976	9.656
		15	20025	1717.5	13.464	14.556
			20175	1732.5	13.456	14.565
			20325	1747.5	13.455	14.601
		20	20050	1720	17.948	19.168
			20175	1732.5	17.932	19.218
			20300	1745	17.954	19.197
	16QAM	1.4	19957	1710.7	1.097	1.277
			20175	1732.5	1.097	1.311
			20393	1754.3	1.094	1.284
		3	19965	1711.5	2.691	2.936
			20175	1732.5	2.690	2.932
			20385	1753.5	2.693	2.935
5		19975	1712.5	4.521	4.958	
		20175	1732.5	4.509	4.971	
		20375	1752.5	4.503	4.966	
10		20000	1715	8.989	9.707	
		20175	1732.5	8.979	9.761	
		20350	1750	8.978	9.656	
15		20025	1717.5	13.467	14.574	
		20175	1732.5	13.498	14.605	



		20	20325	1747.5	13.525	14.417	
			20050	1720	17.930	19.264	
			20175	1732.5	18.013	19.318	
			20300	1745	17.927	19.317	
	64QAM	1.4		19957	1710.7	1.097	1.281
				20175	1732.5	1.104	1.291
				20393	1754.3	1.093	1.268
		3		19965	1711.5	2.705	2.955
				20175	1732.5	2.700	2.948
				20385	1753.5	2.686	2.949
		5		19975	1712.5	4.499	4.872
				20175	1732.5	4.500	4.944
				20375	1752.5	4.516	4.954
		10		20000	1715	8.991	9.781
				20175	1732.5	8.973	9.786
				20350	1750	8.985	9.731
		15		20025	1717.5	13.471	14.618
				20175	1732.5	13.483	14.622
				20325	1747.5	13.478	14.438
		20		20050	1720	17.994	19.420
				20175	1732.5	17.960	19.367
				20300	1745	17.942	19.288

LTE Band 12							
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)	
100%	QPSK	1.4	23017	699.7	1.100	1.277	
			23095	707.5	1.094	1.287	
			23173	715.3	1.101	1.322	
		3		23025	700.5	2.697	2.951
				23095	707.5	2.692	2.949
				23165	714.5	2.692	2.953
		5		23035	701.5	4.504	4.918
				23095	707.5	4.493	4.915
				23155	713.5	4.508	4.954
	10		23060	704	8.996	9.708	
			23095	707.5	8.924	9.728	
			23130	711	8.986	9.713	
	16QAM	1.4		23017	699.7	1.099	1.280
				23095	707.5	1.096	1.320
				23173	715.3	1.099	1.274
3			23025	700.5	2.690	2.930	
			23095	707.5	2.701	2.920	



		5	23165	714.5	2.697	2.966	
			23035	701.5	4.507	4.940	
			23095	707.5	4.494	4.885	
		10	23155	713.5	4.514	5.026	
			23060	704	8.991	9.711	
			23095	707.5	8.947	9.606	
		64QAM	1.4	23130	711	9.001	9.835
				23017	699.7	1.094	1.290
				23095	707.5	1.101	1.317
	3		23173	715.3	1.094	1.278	
			23025	700.5	2.687	2.919	
			23095	707.5	2.685	2.950	
	5		23165	714.5	2.690	2.952	
			23035	701.5	4.509	4.947	
			23095	707.5	4.490	4.884	
	10		23155	713.5	4.516	4.960	
			23060	704	9.030	9.661	
			23095	707.5	8.940	9.661	
				23130	711	8.998	9.682

LTE Band 41						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	39675	2498.5	4.511	4.890
			40620	2593	4.500	4.849
			41565	2687.5	4.523	5.125
		10	39700	2501	8.964	9.655
			40620	2593	8.986	9.894
			41540	2685	8.989	9.639
		15	39725	2503.5	13.463	14.596
			40620	2593	13.439	14.347
			41515	2682.5	13.428	14.864
		20	39750	2506	17.942	19.869
			40620	2593	17.981	19.293
			41490	2680	17.940	19.787
	16QAM	5	39675	2498.5	4.499	4.882
			40620	2593	4.507	4.888
			41565	2687.5	4.478	4.893
		10	39700	2501	8.946	9.637
			40620	2593	8.983	9.672
			41540	2685	8.979	9.674
		15	39725	2503.5	13.419	14.722
			40620	2593	13.503	14.291



		20	41515	2682.5	13.496	14.598	
			39750	2506	17.925	19.712	
			40620	2593	17.936	19.489	
			41490	2680	17.912	20.144	
	64QAM	5		39675	2498.5	4.504	4.897
				40620	2593	4.503	4.914
				41565	2687.5	4.508	4.971
		10		39700	2501	8.979	9.950
				40620	2593	8.955	9.673
				41540	2685	8.990	9.951
		15		39725	2503.5	13.484	14.783
				40620	2593	13.485	14.592
				41515	2682.5	13.406	14.777
		20		39750	2506	17.955	19.743
				40620	2593	17.893	20.251
				41490	2680	17.945	20.359

LTE Band 66						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	131979	1710.7	1.099	1.284
			132322	1745	1.096	1.283
			132665	1779.3	1.096	1.312
		3	131987	1711.5	2.700	2.921
			132322	1745	2.701	2.948
			132657	1778.5	2.704	2.935
		5	131997	1712.5	4.512	4.846
			132322	1745	4.513	4.959
			132647	1777.5	4.510	4.943
		10	132022	1715	9.011	9.776
			132322	1745	8.977	9.755
			132622	1775	8.992	9.796
		15	132047	1717.5	13.445	14.467
			132322	1745	13.502	14.734
			132597	1772.5	13.452	14.471
		20	132072	1720	17.988	19.516
	132322		1745	17.934	19.343	
	132572		1770	17.925	19.232	
	16QAM	1.4	131979	1710.7	1.094	1.312
			132322	1745	1.093	1.298
132665			1779.3	1.095	1.269	
3		131987	1711.5	2.692	2.954	
		132322	1745	2.696	2.949	



		5	132657	1778.5	2.689	2.919
			131997	1712.5	4.514	4.934
			132322	1745	4.495	4.879
		132647	1777.5	4.508	4.995	
		10	132022	1715	9.017	9.668
			132322	1745	8.991	9.637
			132622	1775	9.005	9.833
		15	132047	1717.5	13.431	14.452
			132322	1745	13.460	14.491
			132597	1772.5	13.464	14.568
		20	132072	1720	17.955	19.390
			132322	1745	17.976	19.353
	132572		1770	17.945	19.418	
	64QAM	1.4	131979	1710.7	1.100	1.306
			132322	1745	1.099	1.277
			132665	1779.3	1.091	1.284
		3	131987	1711.5	2.687	2.966
			132322	1745	2.687	2.920
			132657	1778.5	2.693	2.941
		5	131997	1712.5	4.509	4.961
			132322	1745	4.506	4.944
			132647	1777.5	4.508	4.972
		10	132022	1715	9.002	9.707
			132322	1745	8.977	9.775
			132622	1775	8.980	9.740
		15	132047	1717.5	13.458	14.545
			132322	1745	13.470	14.705
			132597	1772.5	13.441	14.399
		20	132072	1720	17.987	19.363
			132322	1745	17.914	19.483
			132572	1770	17.955	19.260

LTE Band 71						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	133147	665.5	4.497	4.922
			133297	680.5	4.504	4.913
			133447	695.5	4.516	4.988
		10	133172	668	8.990	9.699
			133297	680.5	8.971	9.634
			133422	693	8.986	9.687
		15	133197	670.5	13.429	14.521
			133297	680.5	13.448	14.526



		20	133397	690.5	13.417	14.470
			133222	673	17.917	19.510
			133322	683	17.947	19.302
			133372	688	17.912	19.432
	16QAM	5	133147	665.5	4.511	4.953
			133297	680.5	4.501	4.981
			133447	695.5	4.494	4.883
		10	133172	668	8.993	9.658
			133297	680.5	9.004	9.692
			133422	693	9.003	9.689
		15	133197	670.5	13.460	14.626
			133297	680.5	13.458	14.437
			133397	690.5	13.445	14.639
		20	133222	673	17.948	19.193
			133322	683	17.944	19.257
			133372	688	17.943	19.368
	64QAM	5	133147	665.5	4.520	4.975
			133297	680.5	4.499	4.917
			133447	695.5	4.529	4.917
		10	133172	668	8.989	9.635
			133297	680.5	8.972	9.723
			133422	693	8.989	9.683
		15	133197	670.5	2.965	3.000
			133297	680.5	13.418	14.586
			133397	690.5	13.431	14.517
		20	133222	673	17.924	19.186
			133322	683	17.952	19.201
			133372	688	17.961	19.395

CA_41C	PCC		SCC1		PCC RB	SCC1 RB	Bandwidth (MHz)	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)			99% Power	-26dBc
CA_41C_5MHz+20MHz_QPSK	40528	2583.8	40645	2595.5	25#0	100#0	23.43	26.16
CA_41C_5MHz+20MHz_16QAM	40528	2583.8	40645	2595.5	25#0	100#0	23.34	25.84
CA_41C_5MHz+20MHz_64QAM	40528	2583.8	40645	2595.5	25#0	100#0	23.35	25.42
CA_41C_20MHz+5MHz_QPSK	40595	2590.5	40712	2602.2	100#0	25#0	23.40	26.45
CA_41C_20MHz+5MHz_16QAM	40595	2590.5	40712	2602.2	100#0	25#0	23.31	25.44
CA_41C_20MHz+5MHz_64QAM	40595	2590.5	40712	2602.2	100#0	25#0	23.34	25.09
CA_41C_10MHz+20MHz_QPSK	40526	2583.6	40670	2598	50#0	100#0	28.14	31.24
CA_41C_10MHz+20MHz_16QAM	40526	2583.6	40670	2598	50#0	100#0	28.05	32.60
CA_41C_10MHz+20MHz_64QAM	40526	2583.6	40670	2598	50#0	100#0	28.04	32.85
CA_41C_20MHz+10MHz_QPSK	40571	2588.1	40715	2602.5	100#0	50#0	28.08	32.67



CA_41C_20MHz+10MHz_16QAM	40571	2588.1	40715	2602.5	100#0	50#0	28.16	31.01
CA_41C_20MHz+10MHz_64QAM	40571	2588.1	40715	2602.5	100#0	50#0	28.19	31.05
CA_41C_15MHz+15MHz_QPSK	40545	2585.5	40695	2600.5	75#0	75#0	28.66	37.38
CA_41C_15MHz+15MHz_16QAM	40545	2585.5	40695	2600.5	75#0	75#0	28.66	33.44
CA_41C_15MHz+15MHz_64QAM	40545	2585.5	40695	2600.5	75#0	75#0	28.68	32.26
CA_41C_15MHz+20MHz_QPSK	40523	2583.3	40694	2600.4	75#0	100#0	32.88	43.63
CA_41C_15MHz+20MHz_16QAM	40523	2583.3	40694	2600.4	75#0	100#0	32.91	36.47
CA_41C_15MHz+20MHz_64QAM	40523	2583.3	40694	2600.4	75#0	100#0	32.90	38.17
CA_41C_20MHz+15MHz_QPSK	40546	2585.6	40717	2602.7	100#0	75#0	32.92	40.58
CA_41C_20MHz+15MHz_16QAM	40546	2585.6	40717	2602.7	100#0	75#0	32.80	38.00
CA_41C_20MHz+15MHz_64QAM	40546	2585.6	40717	2602.7	100#0	75#0	32.77	37.00
CA_41C_20MHz+20MHz_QPSK	40521	2583.1	40719	2602.9	100#0	100#0	37.84	40.64
CA_41C_20MHz+20MHz_16QAM	40521	2583.1	40719	2602.9	100#0	100#0	37.66	41.51
CA_41C_20MHz+20MHz_64QAM	40521	2583.1	40719	2602.9	100#0	100#0	37.69	39.95

NR n41						
RB	Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	30M	P1/2 BPSK	502200	2511	27.166	29.720
			518598	2592.99	27.230	29.780
			534996	2674.98	27.209	29.690
		QPSK	502200	2511	27.159	29.590
			518598	2592.99	27.205	29.620
			534996	2674.98	27.181	29.550
		16QAM	502200	2511	27.109	29.510
			518598	2592.99	27.193	29.820
			534996	2674.98	27.120	29.760
		64QAM	502200	2511	27.127	29.460
			518598	2592.99	27.186	29.820
			534996	2674.98	27.150	29.790
256QAM	502200	2511	27.092	29.520		
	518598	2592.99	27.128	29.800		
	534996	2674.98	27.221	29.910		

DC_66A_n41A							
RB	Bandwidth (MHz)	Modulation (LTE)	Modulation	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth (MHz)
100%	30M	Band66-10MHz-1745MHz-QPSK-1#0	P1/2 BPSK	502200	2511	27.125	29.630
				518598	2592.99	27.105	29.780
				534996	2674.98	27.139	29.710
			QPSK	502200	2511	27.089	29.470
				518598	2592.99	27.174	29.620



			16QAM	534996	2674.98	27.183	29.680		
				502200	2511	27.083	29.840		
				518598	2592.99	27.184	30.400		
			64QAM	534996	2674.98	27.175	29.490		
				502200	2511	27.098	29.520		
				518598	2592.99	27.142	29.660		
			256QAM	534996	2674.98	27.125	29.660		
				502200	2511	27.086	29.580		
				518598	2592.99	27.161	29.740		
						534996	2674.98	27.155	20.730

NR n66						
RB	Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	30M	P1/2 BPSK	345000	1725	28.869	31.000
			349000	1745	28.927	31.100
			353000	1765	28.878	20.980
		QPSK	345000	1725	28.873	31.070
			349000	1745	28.960	31.060
			353000	1765	28.838	30.970
		16QAM	345000	1725	28.951	31.090
			349000	1745	28.990	31.090
			353000	1765	28.939	31.010
		64QAM	345000	1725	28.902	31.100
			349000	1745	28.968	31.100
			353000	1765	28.874	31.070
256QAM	345000	1725	28.808	30.960		
	349000	1745	28.847	31.030		
	353000	1765	28.773	31.000		

DC_5A_n66A							
RB	Bandwidth (MHz)	Modulation (LTE)	Modulation	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth (MHz)
100%	30M	Band5-10MHz-836.5MHz-QPSK-1#0	P1/2 BPSK	345000	1725	29.091	31.690
				349000	1745	29.050	31.160
				353000	1765	28.966	31.070
			QPSK	345000	1725	28.960	31.060
				349000	1745	28.960	31.130
				353000	1765	28.950	31.040
			16QAM	345000	1725	28.889	30.950
				349000	1745	28.940	31.230
				353000	1765	28.878	30.960



			64QAM	345000	1725	28.864	31.020
				349000	1745	28.914	31.250
				353000	1765	28.847	31.000
			256QAM	345000	1725	28.985	33.250
				349000	1745	29.050	31.070
				353000	1765	28.935	31.030

NR n71						
RB	Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	20M	P1/2 BPSK	134600	673	18.334	20.410
			136100	680.5	18.391	20.410
			137600	688	18.391	20.360
		QPSK	134600	673	18.277	20.360
			136100	680.5	18.369	20.360
			137600	688	18.370	20.370
		16QAM	134600	673	18.359	20.390
			136100	680.5	18.382	20.430
			137600	688	18.366	20.320
		64QAM	134600	673	18.278	20.210
			136100	680.5	18.312	20.320
			137600	688	18.296	20.260
256QAM	134600	673	18.270	22.120		
	136100	680.5	18.315	21.490		
	137600	688	18.299	20.320		

DC_66A_n71A							
RB	Bandwidth (MHz)	Modulation (LTE)	Modulation	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth (MHz)
100%	20M	Band66-10MHz-1745MHz-QPSK-1#0	P1/2 BPSK	134600	673	18.380	20.410
				136100	680.5	18.425	20.420
				137600	688	18.396	20.370
			QPSK	134600	673	18.378	20.420
				136100	680.5	18.446	20.410
				137600	688	18.425	20.400
			16QAM	134600	673	18.324	20.380
				136100	680.5	18.346	20.360
				137600	688	18.362	20.300
			64QAM	134600	673	18.405	20.390
				136100	680.5	18.445	20.470
				137600	688	18.399	20.440
256QAM	134600	673	18.291	20.300			



				136100	680.5	18.329	20.370
				137600	688	18.336	20.360

WCDMA Band IV CH-Low



WCDMA Band IV CH Middle

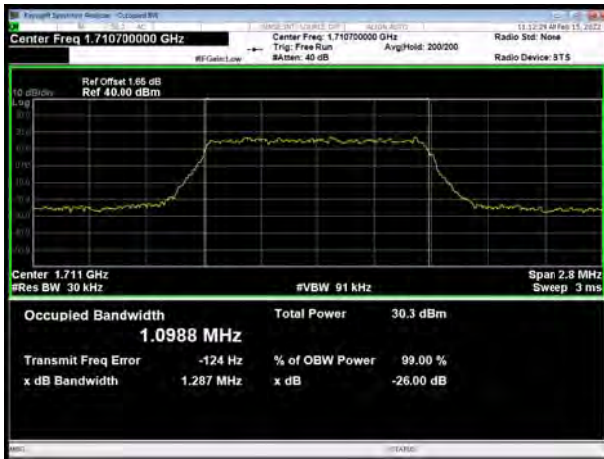


WCDMA Band IV CH High

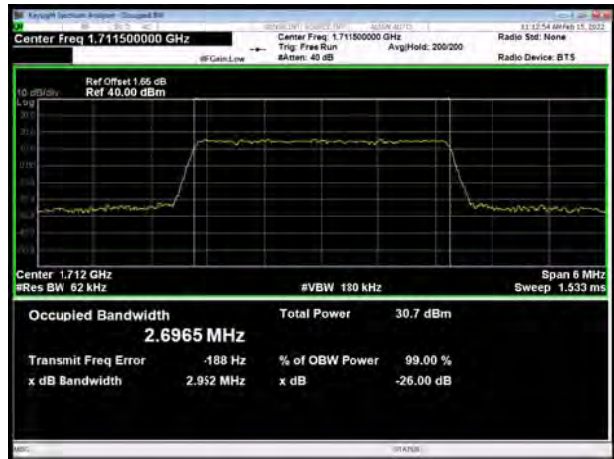




LTE Band 4 QPSK 1.4MHz CH-Low



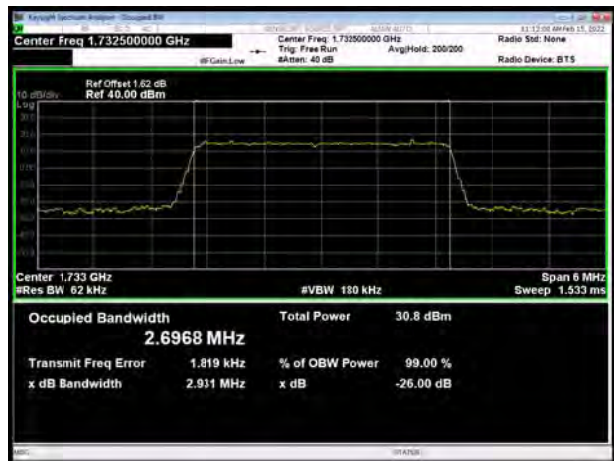
LTE Band 4 QPSK 3MHz CH-Low



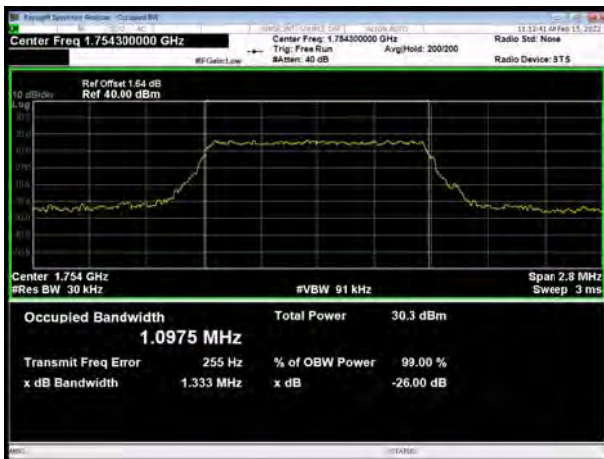
LTE Band 4 QPSK 1.4MHz CH-Middle



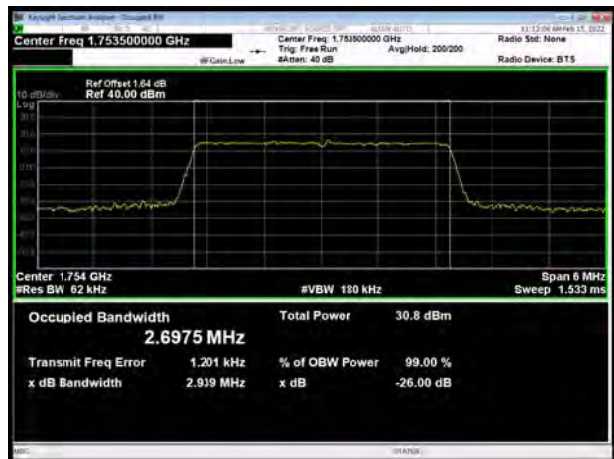
LTE Band 4 QPSK 3MHz CH-Middle



LTE Band 4 QPSK 1.4MHz CH-High

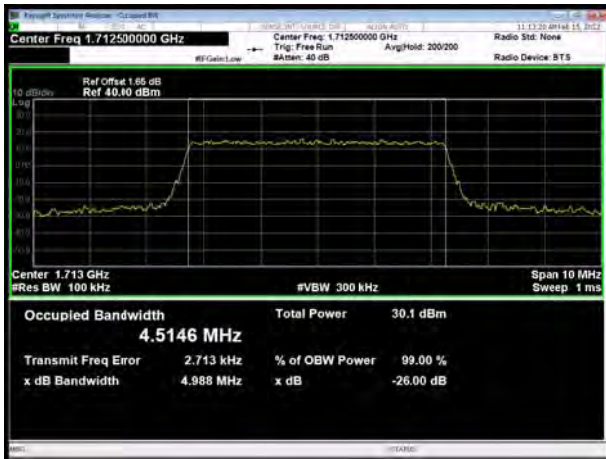


LTE Band 4 QPSK 3MHz CH-High

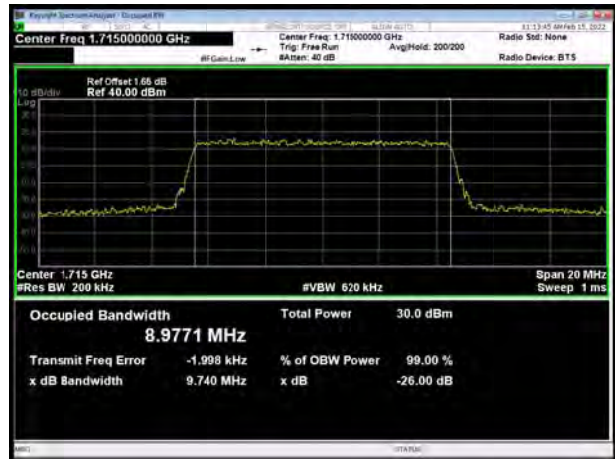




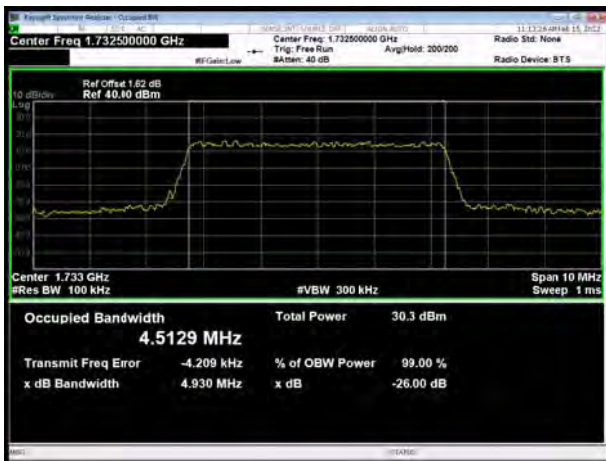
LTE Band 4 QPSK 5MHz CH-Low



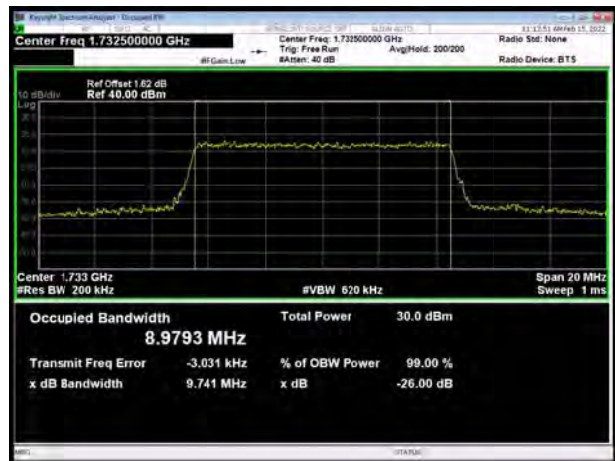
LTE Band 4 QPSK 10MHz CH-Low



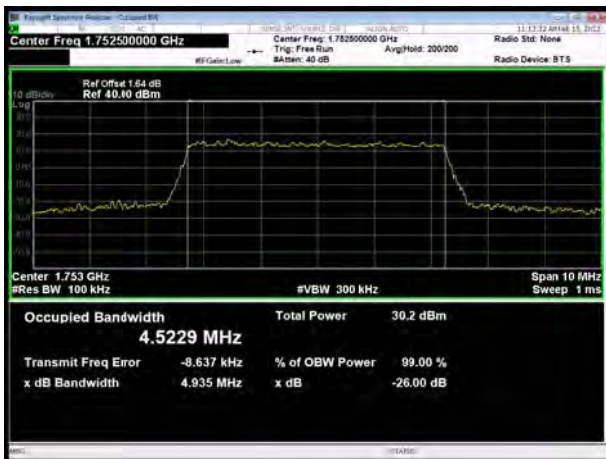
LTE Band 4 QPSK 5MHz CH-Middle



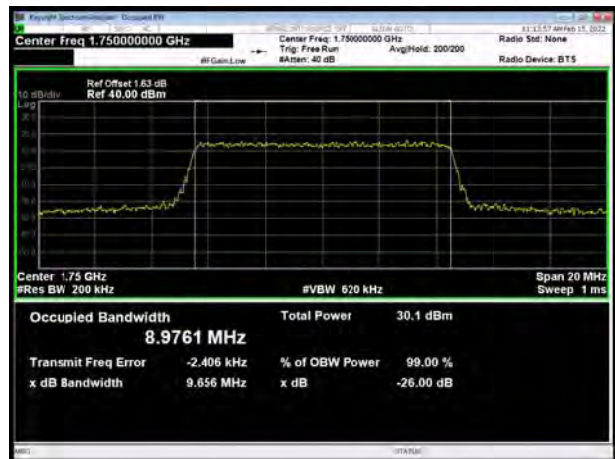
LTE Band 4 QPSK 10MHz CH-Middle



LTE Band 4 QPSK 5MHz CH-High

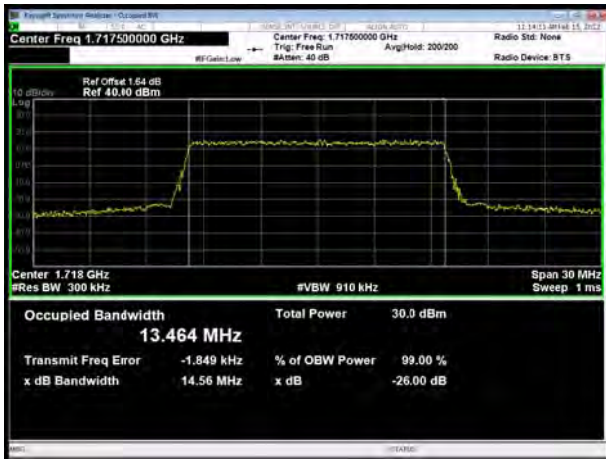


LTE Band 4 QPSK 10MHz CH-High

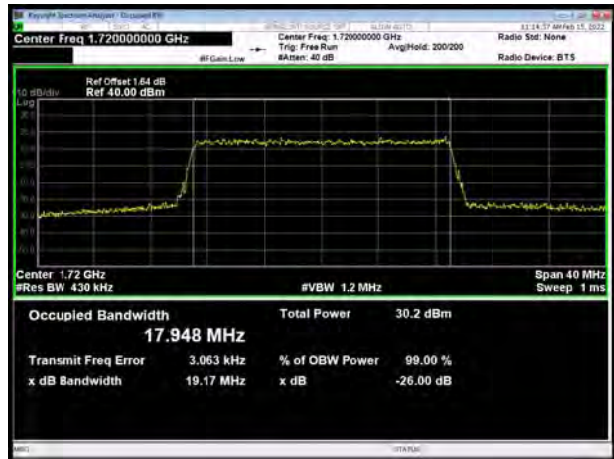




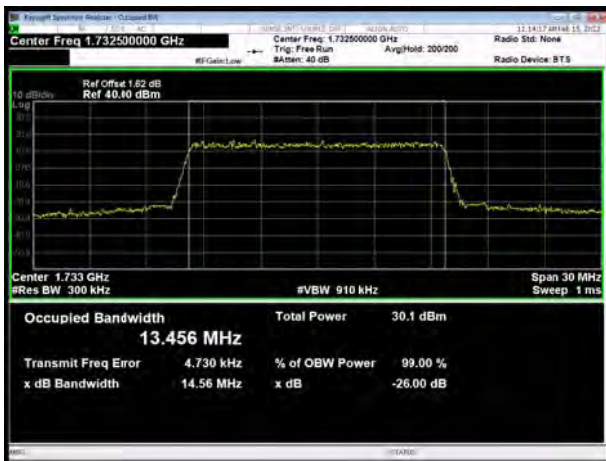
LTE Band 4 QPSK 15MHz CH-Low



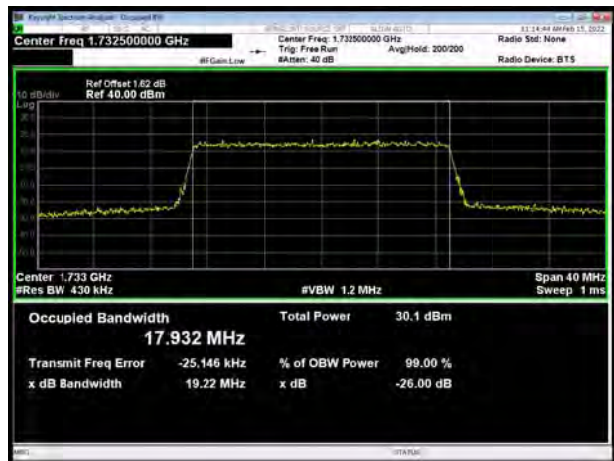
LTE Band 4 QPSK 20MHz CH-Low



LTE Band 4 QPSK 15MHz CH-Middle



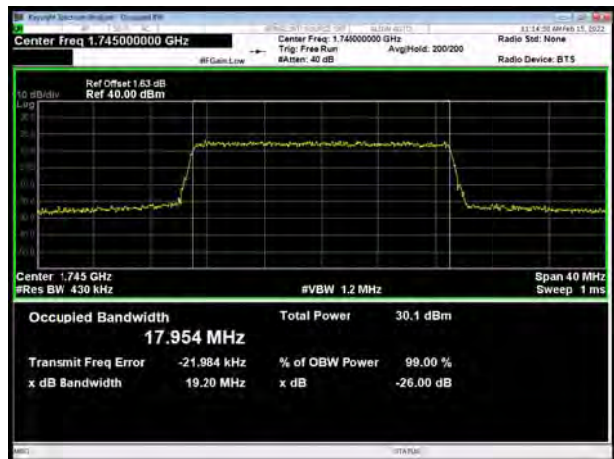
LTE Band 4 QPSK 20MHz CH-Middle



LTE Band 4 QPSK 15MHz CH-High

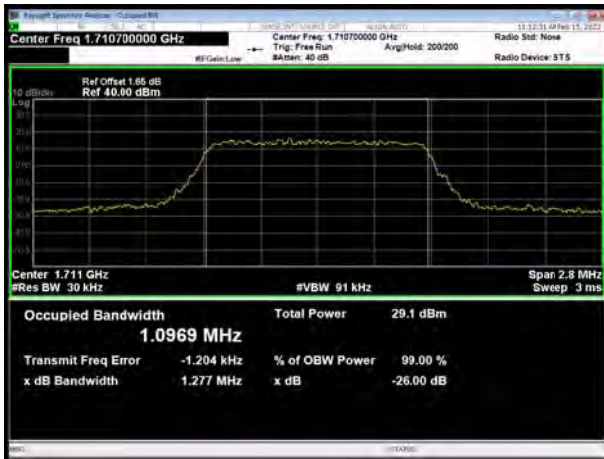


LTE Band 4 QPSK 20MHz CH-High

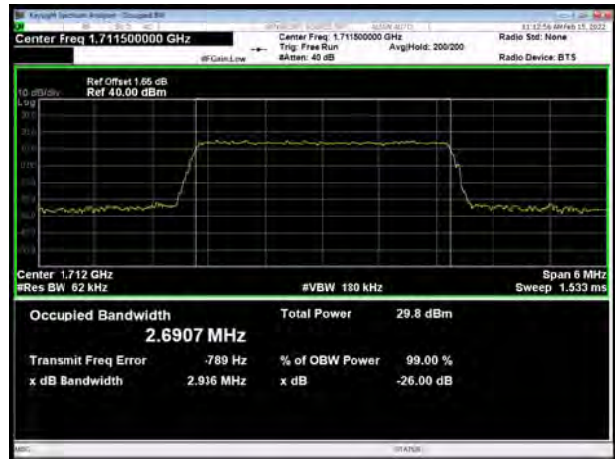




LTE Band 4 16QAM 1.4MHz CH-Low



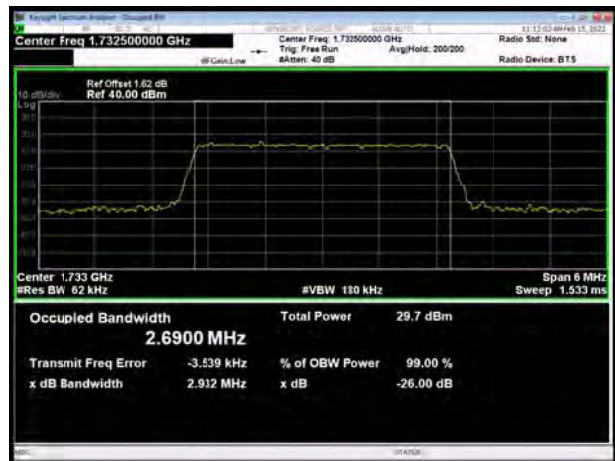
LTE Band 4 16QAM 3MHz CH-Low



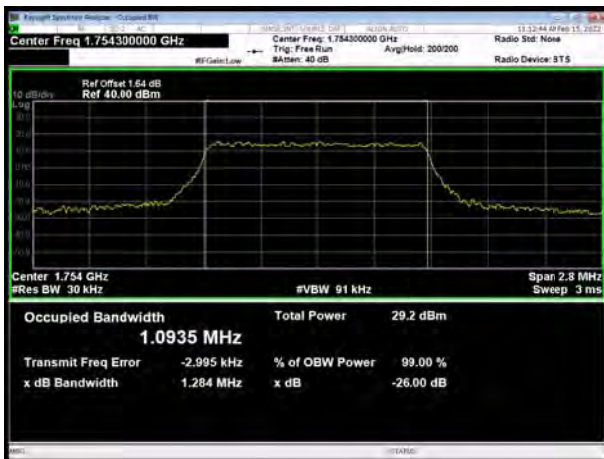
LTE Band 4 16QAM 1.4MHz CH-Middle



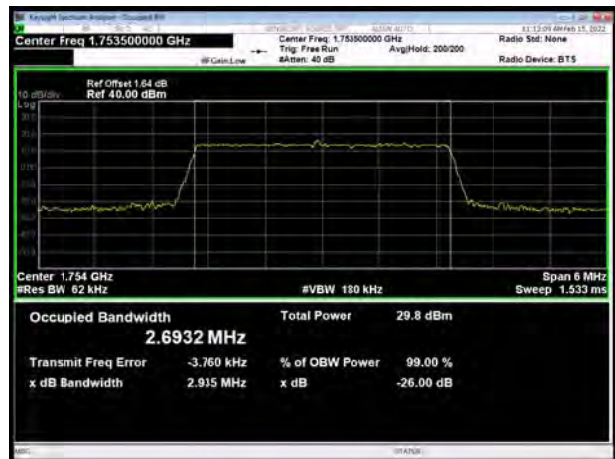
LTE Band 4 16QAM 3MHz CH-Middle



LTE Band 4 16QAM 1.4MHz CH-High

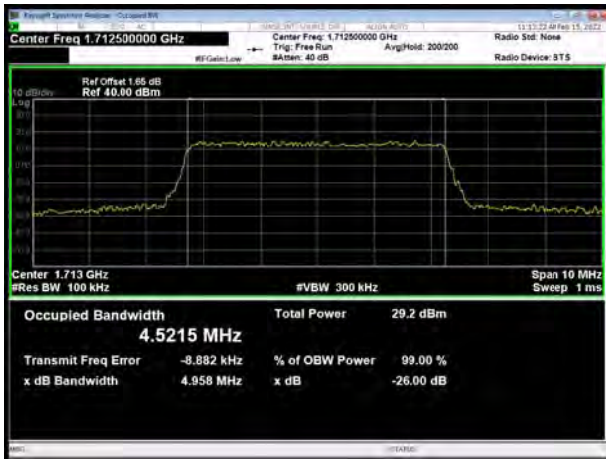


LTE Band 4 16QAM 3MHz CH-High

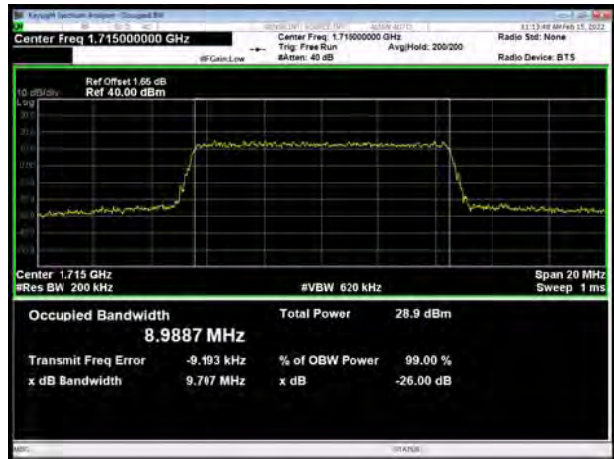




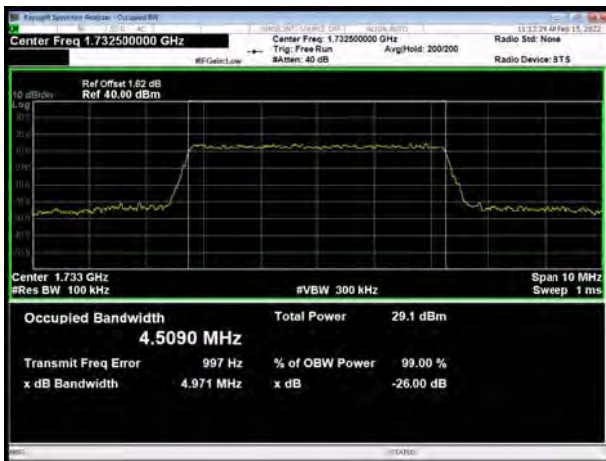
LTE Band 4 16QAM 5MHz CH-Low



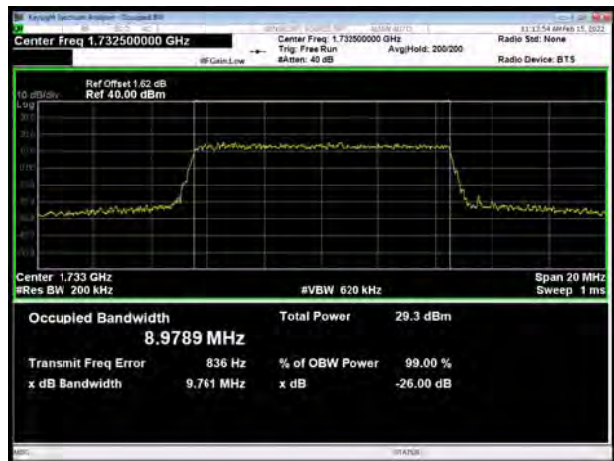
LTE Band 4 16QAM 10MHz CH-Low



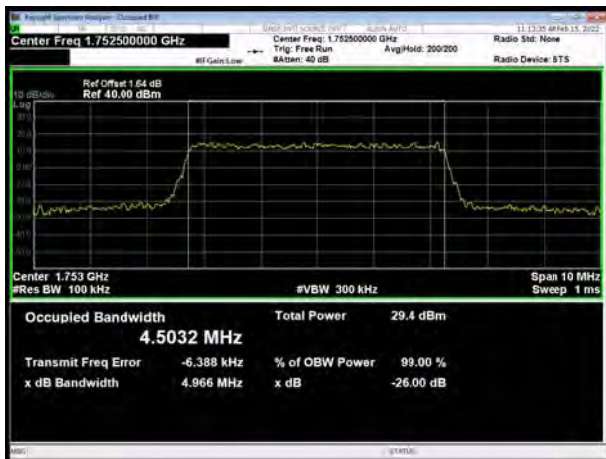
LTE Band 4 16QAM 5MHz CH-Middle



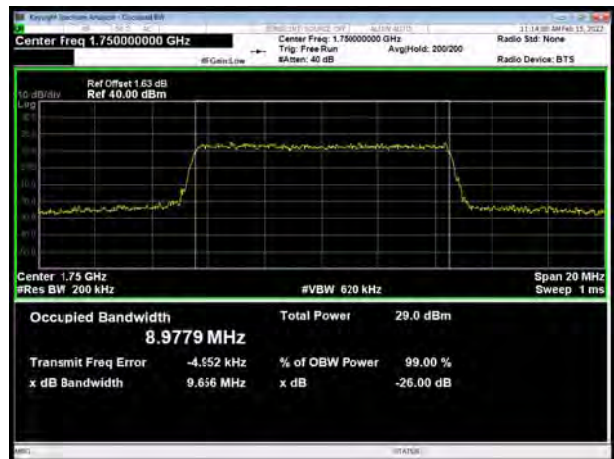
LTE Band 4 16QAM 10MHz CH-Middle



LTE Band 4 16QAM 5MHz CH-High

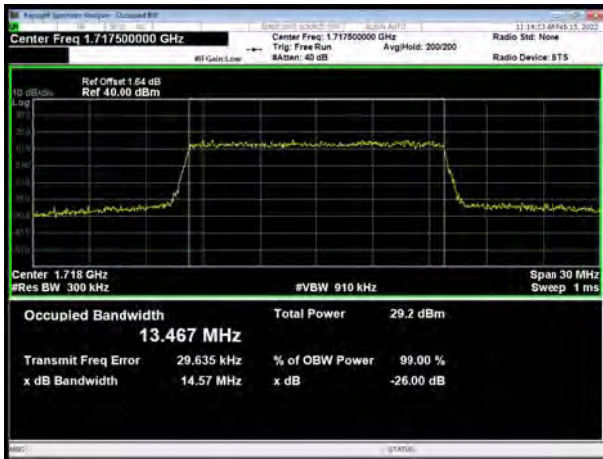


LTE Band 4 16QAM 10MHz CH-High

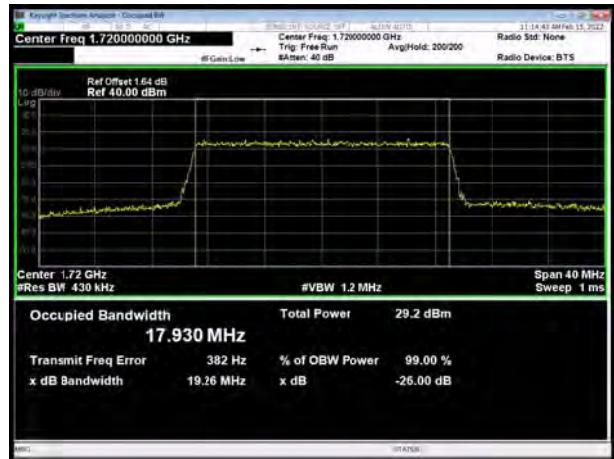




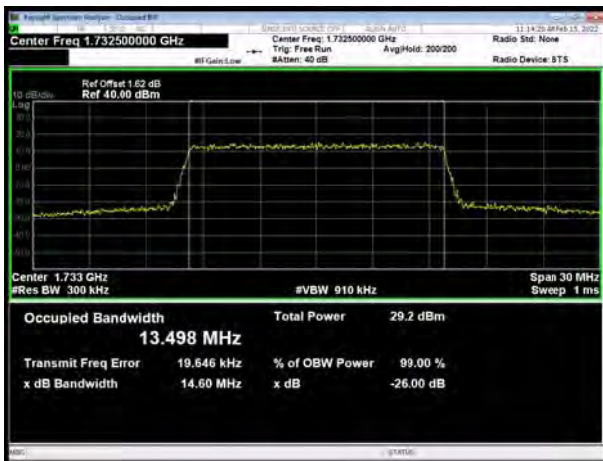
LTE Band 4 16QAM 15MHz CH-Low



LTE Band 4 16QAM 20MHz CH-Low



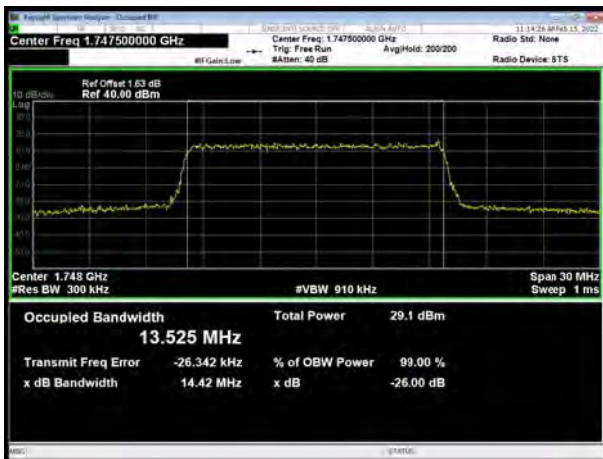
LTE Band 4 16QAM 15MHz CH-Middle



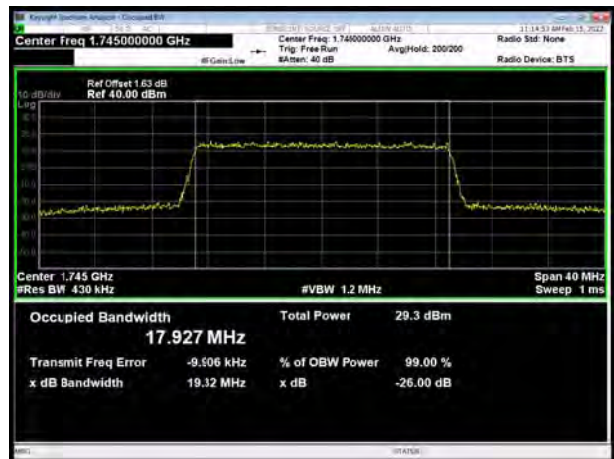
LTE Band 4 16QAM 20MHz CH-Middle



LTE Band 4 16QAM 15MHz CH-High

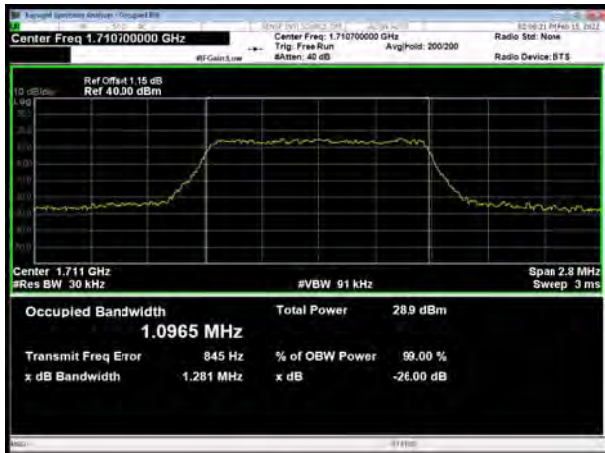


LTE Band 4 16QAM 20MHz CH-High

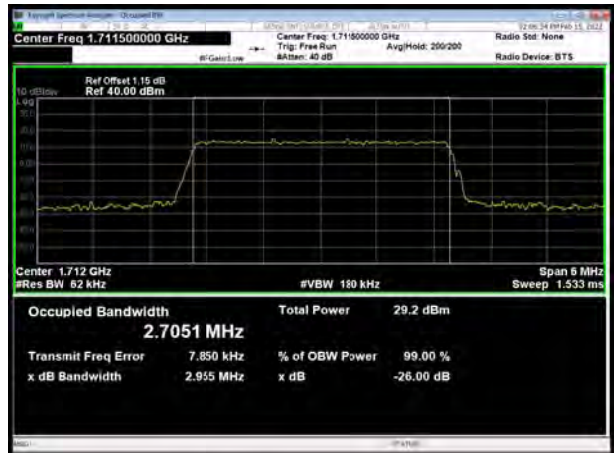




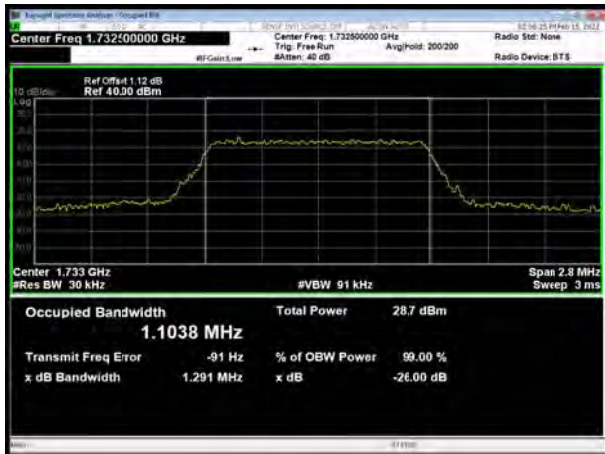
LTE Band 4 1.4MHz 64QAM CH-Low



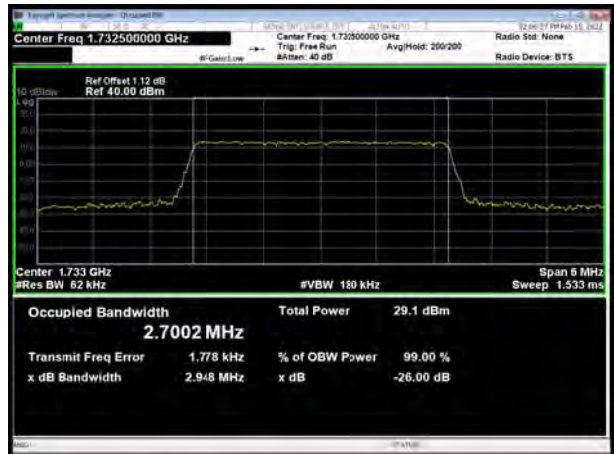
LTE Band 4 3MHz 64QAM CH-Low



LTE Band 4 1.4MHz 64QAM CH-Middle



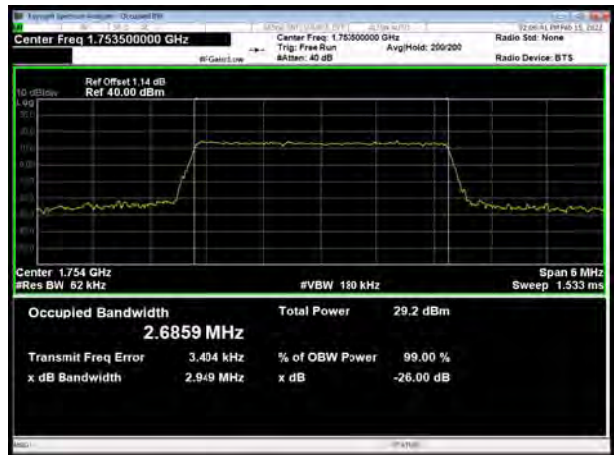
LTE Band 4 3MHz 64QAM CH-Middle



LTE Band 4 1.4MHz 64QAM CH-High

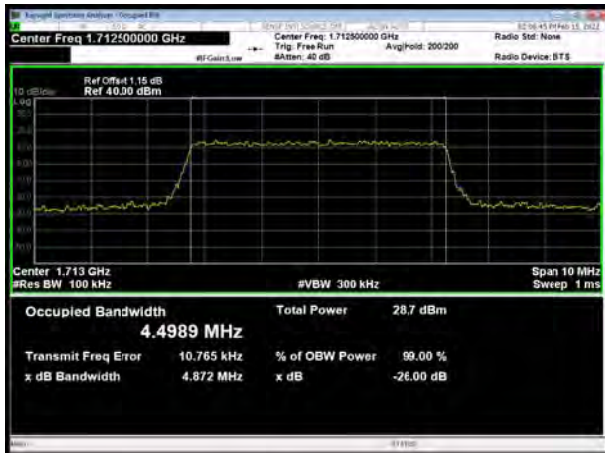


LTE Band 4 3MHz 64QAM CH-High

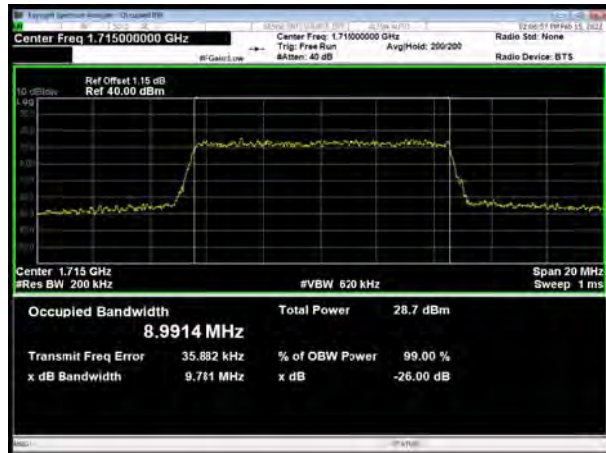




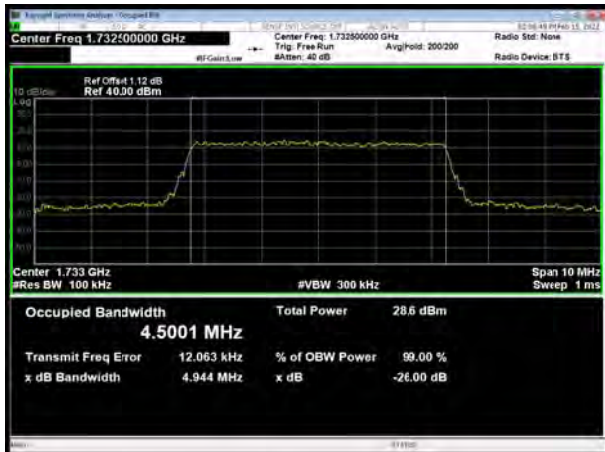
LTE Band 4 5MHz 64QAM CH-Low



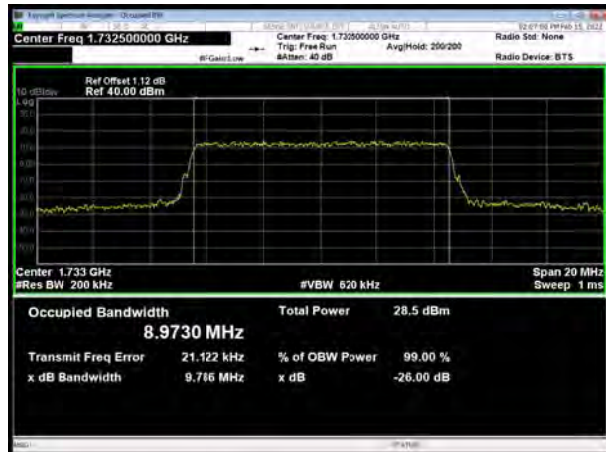
LTE Band 4 10MHz 64QAM CH-Low



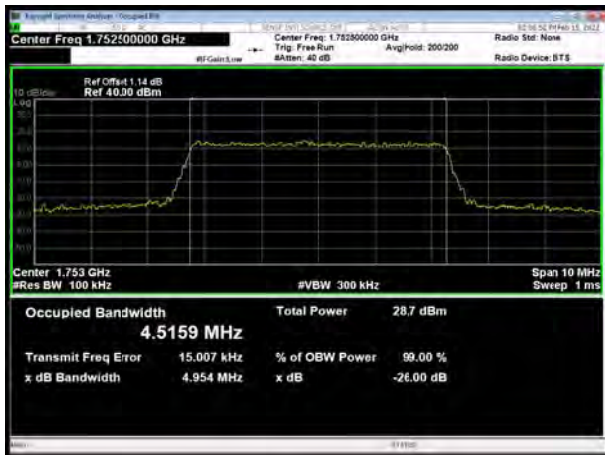
LTE Band 4 5MHz 64QAM CH-Middle



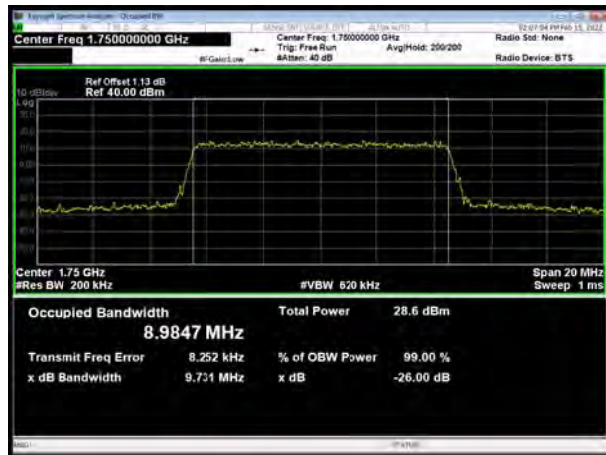
LTE Band 4 10MHz 64QAM CH-Middle



LTE Band 4 5MHz 64QAM CH-High

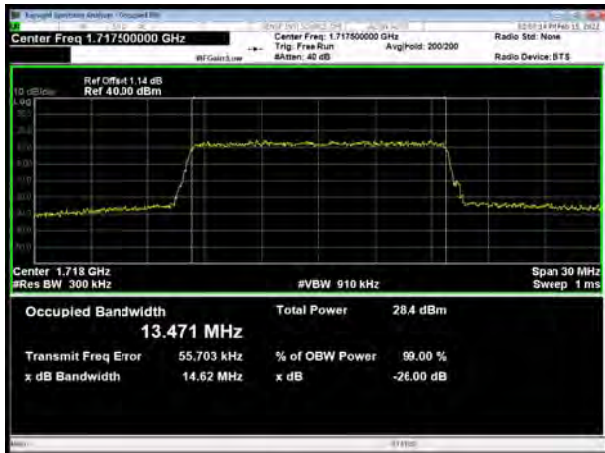


LTE Band 4 10MHz 64QAM CH-High

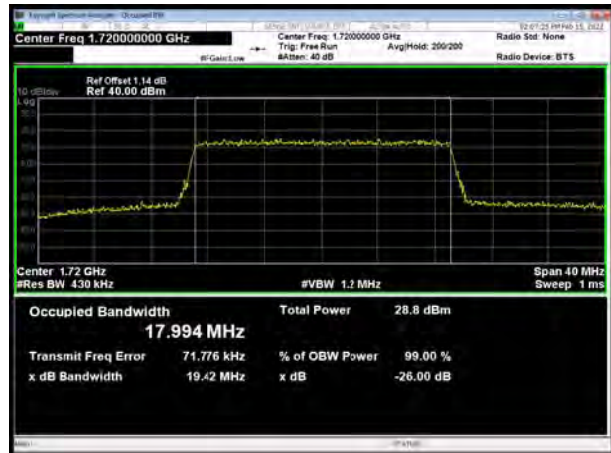




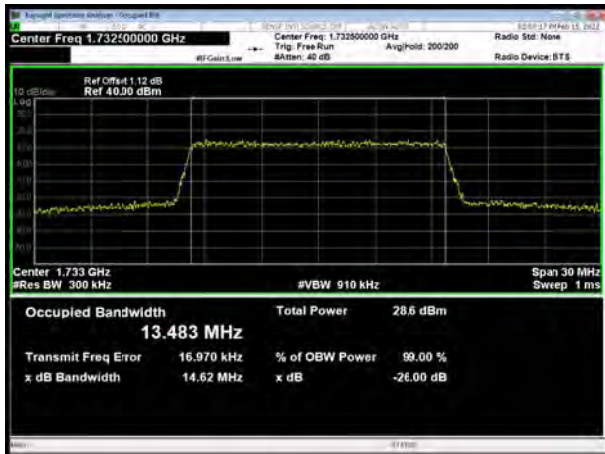
LTE Band 4 15MHz 64QAM CH-Low



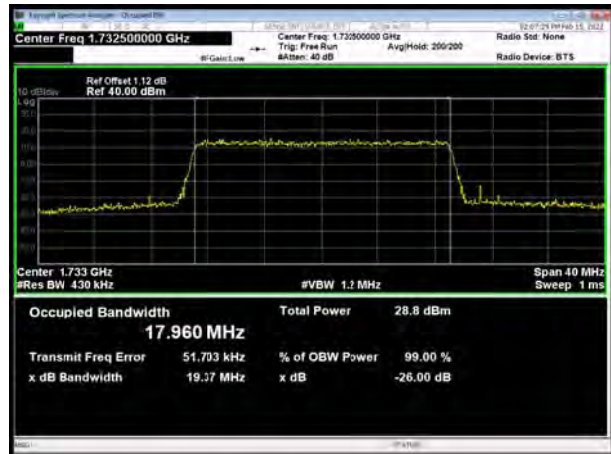
LTE Band 4 20MHz 64QAM CH-Low



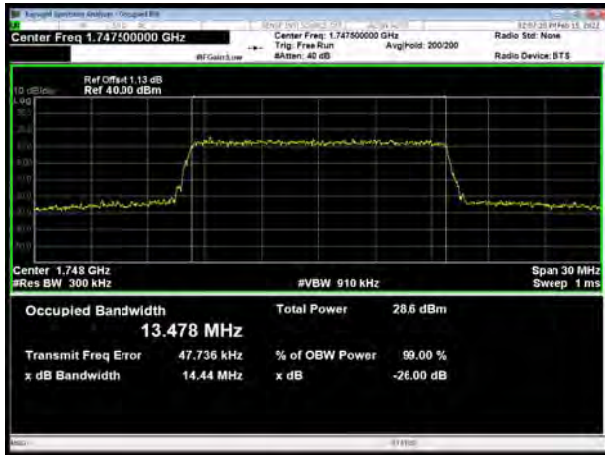
LTE Band 4 15MHz 64QAM CH-Middle



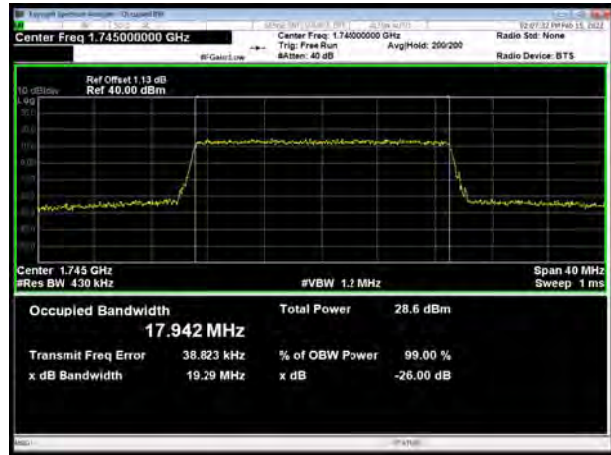
LTE Band 4 20MHz 64QAM CH-Middle



LTE Band 4 15MHz 64QAM CH-High

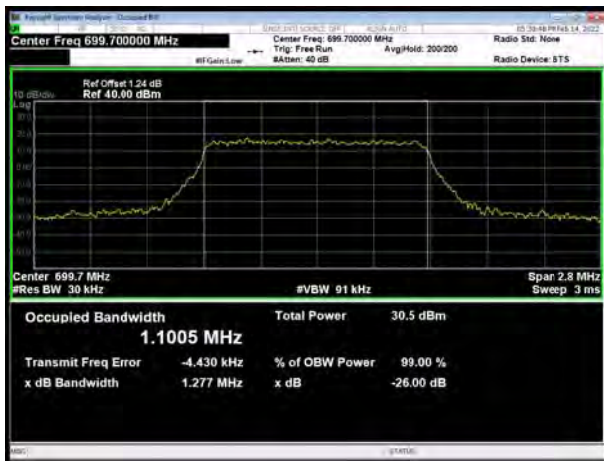


LTE Band 4 20MHz 64QAM CH-High

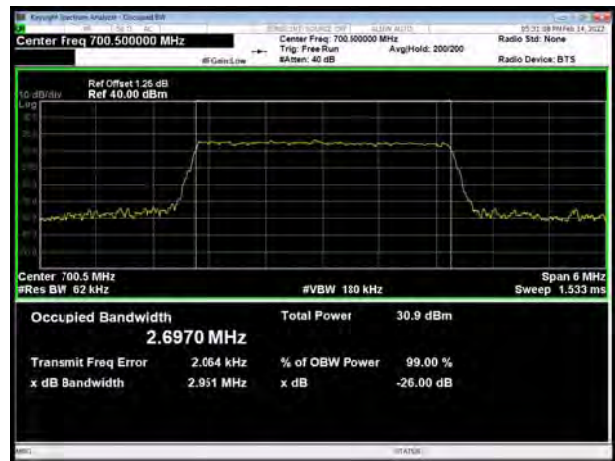




LTE Band 12 QPSK 1.4MHz CH-Low



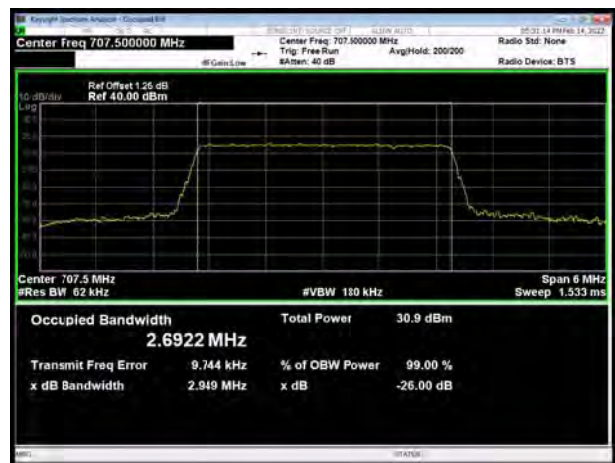
LTE Band 12 QPSK 3MHz CH-Low



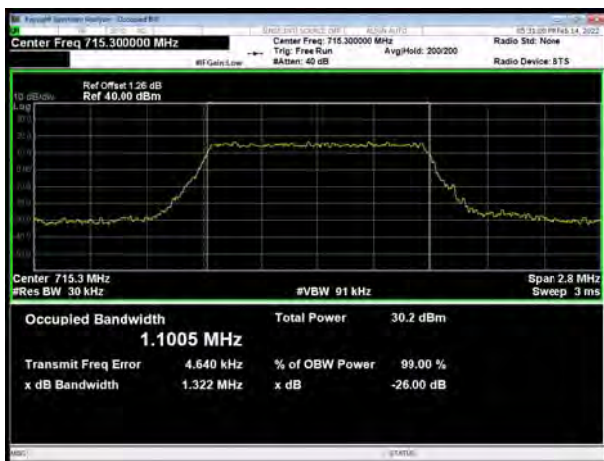
LTE Band 12 QPSK 1.4MHz CH-Middle



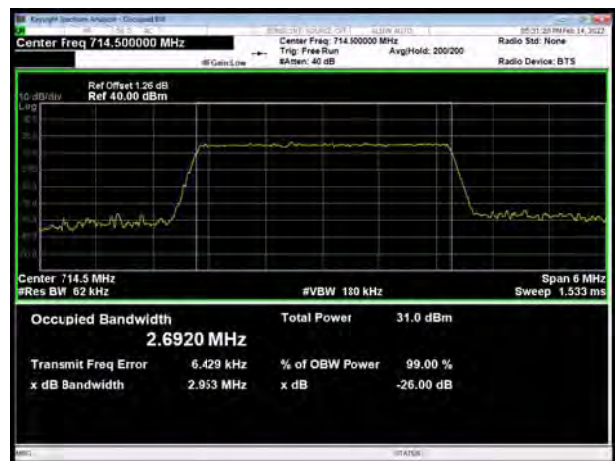
LTE Band 12 QPSK 3MHz CH-Middle



LTE Band 12 QPSK 1.4MHz CH-High

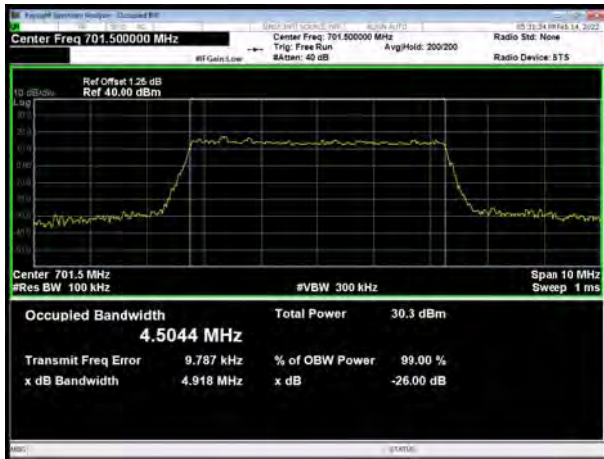


LTE Band 12 QPSK 3MHz CH-High

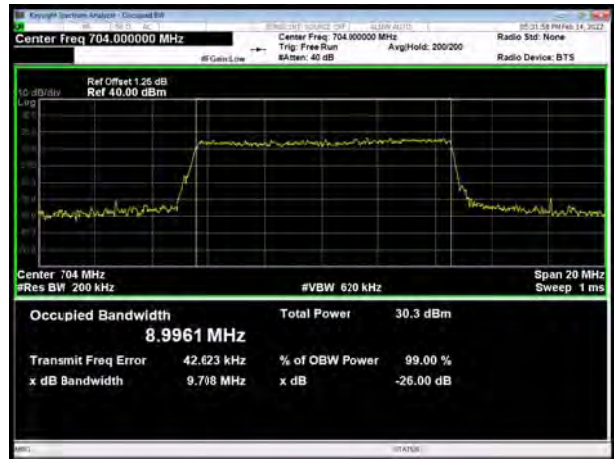




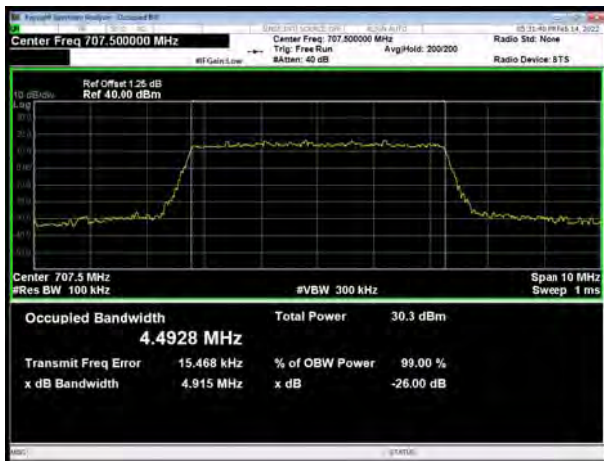
LTE Band 12 QPSK 5MHz CH-Low



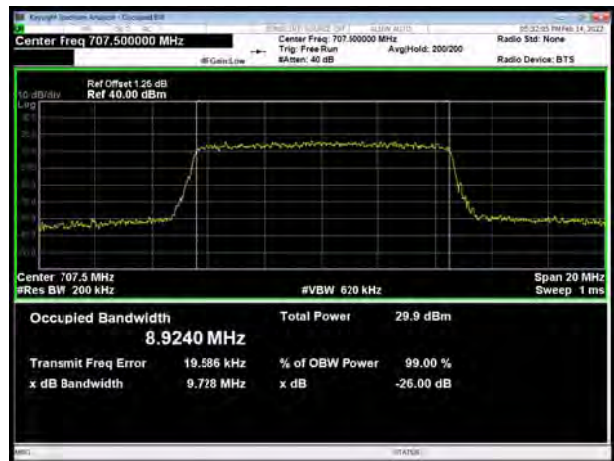
LTE Band 12 QPSK 10MHz CH-Low



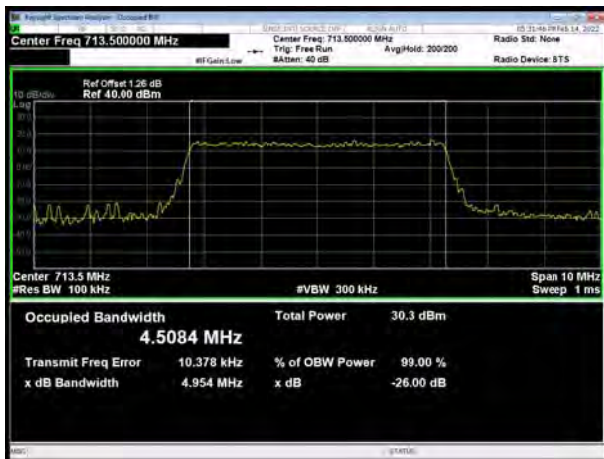
LTE Band 12 QPSK 5MHz CH-Middle



LTE Band 12 QPSK 10MHz CH-Middle



LTE Band 12 QPSK 5MHz CH-High



LTE Band 12 QPSK 10MHz CH-High

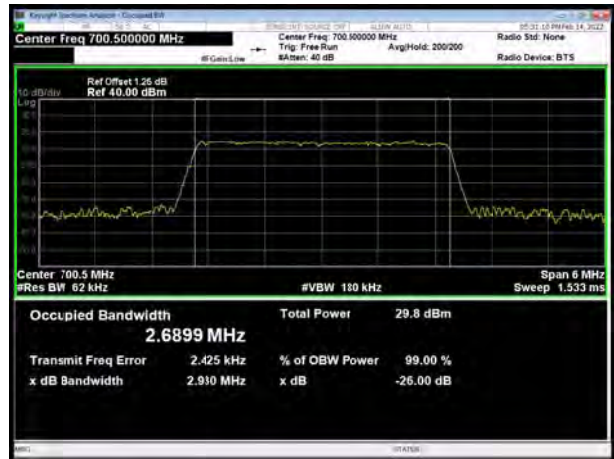




LTE Band 12 16QAM 1.4MHz CH-Low



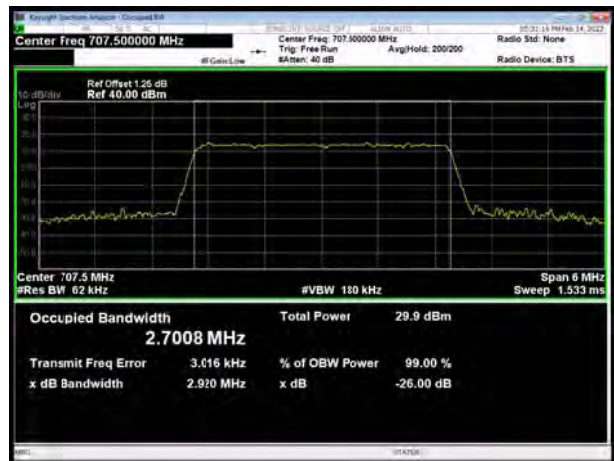
LTE Band 12 16QAM 3MHz CH-Low



LTE Band 12 16QAM 1.4MHz CH-Middle



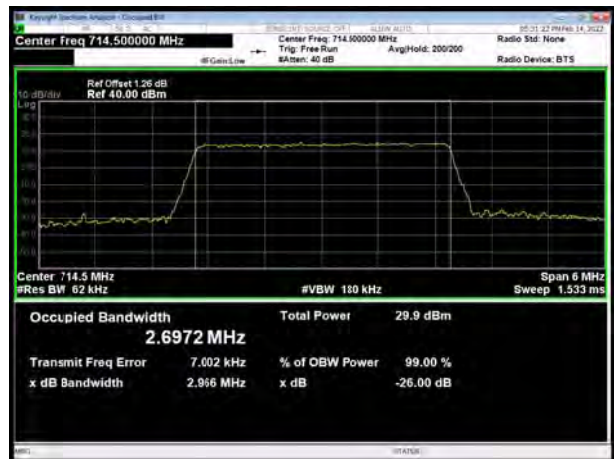
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LTE Band 12 16QAM 1.4MHz CH-High

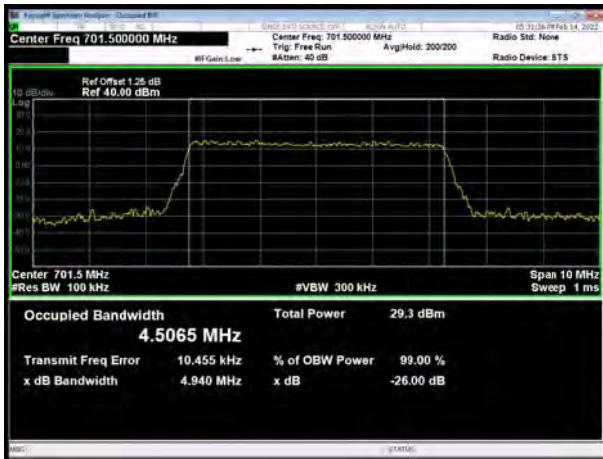


LTE Band 12 16QAM 3MHz CH-High

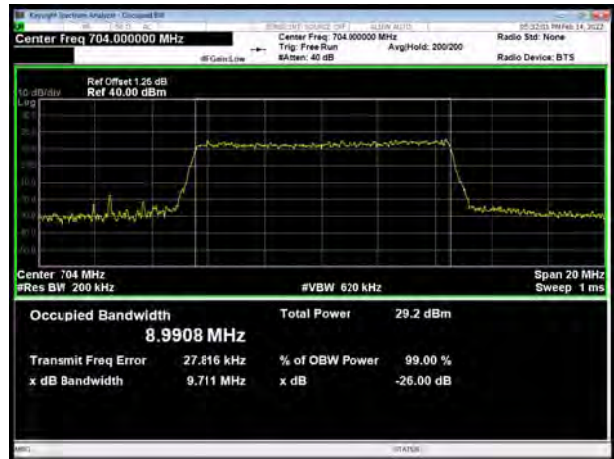




LTE Band 12 16QAM 5MHz CH-Low



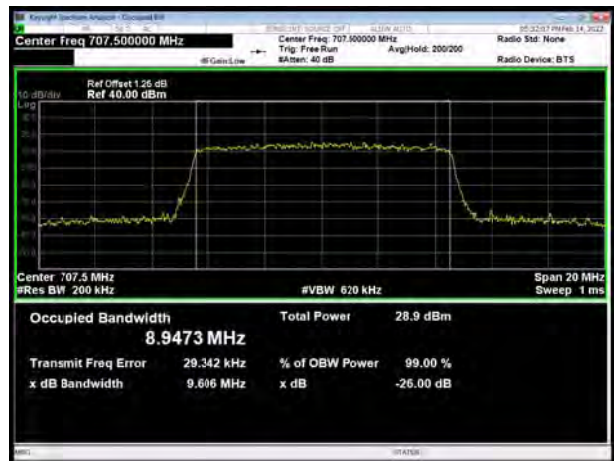
LTE Band 12 16QAM 10MHz CH-Low



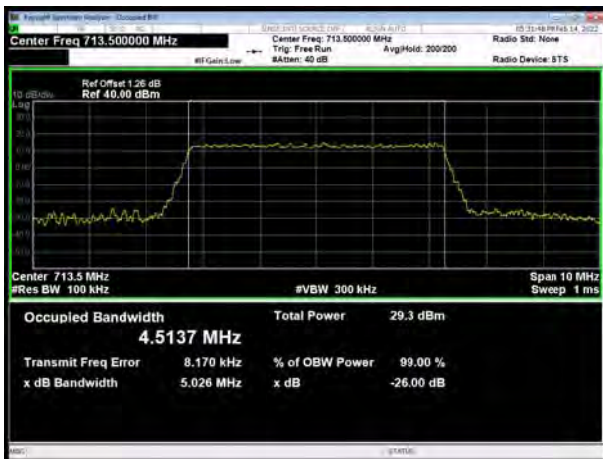
LTE Band 12 16QAM 5MHz CH-Middle



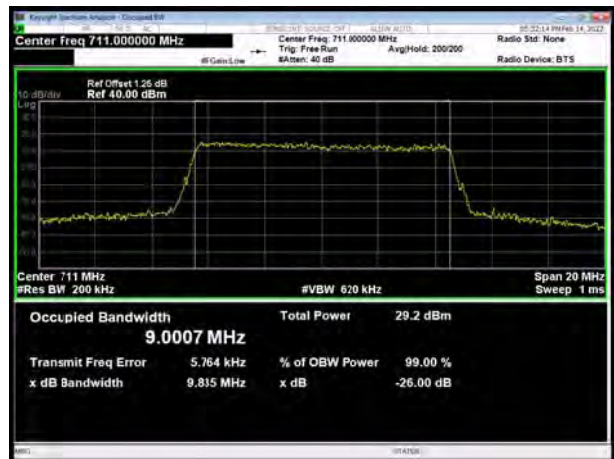
LTE Band 12 16QAM 10MHz CH-Middle



LTE Band 12 16QAM 5MHz CH-High

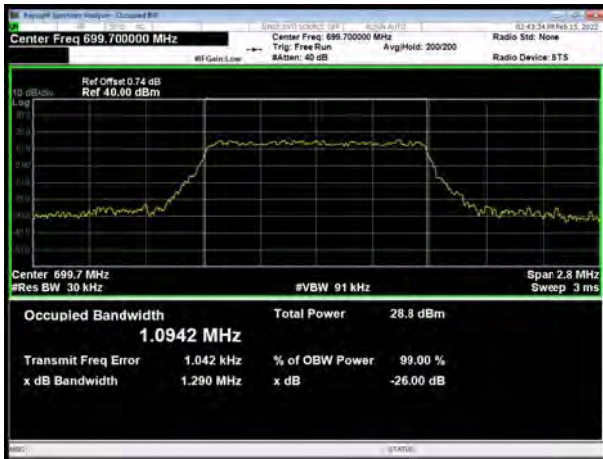


LTE Band 12 16QAM 10MHz CH-High

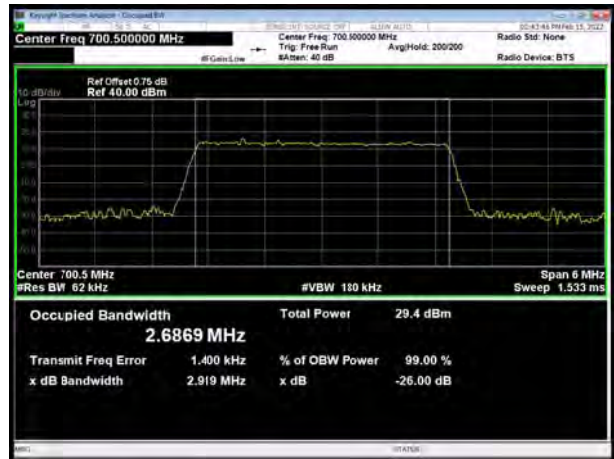




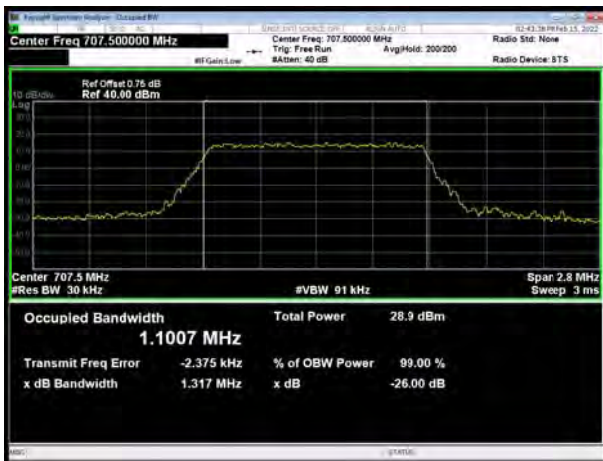
LTE Band 12 64QAM 1.4MHz CH-Low



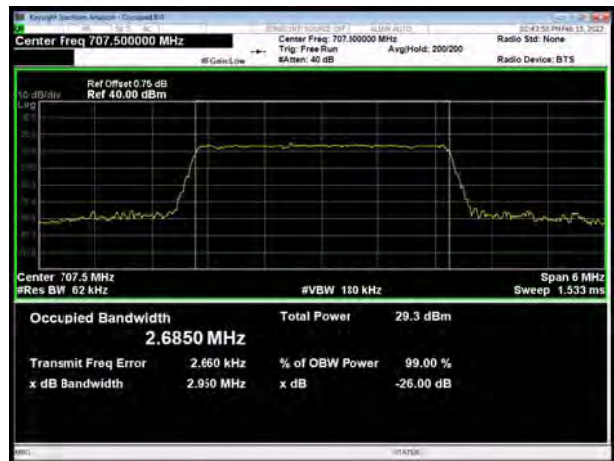
LTE Band 12 64QAM 3MHz CH-Low



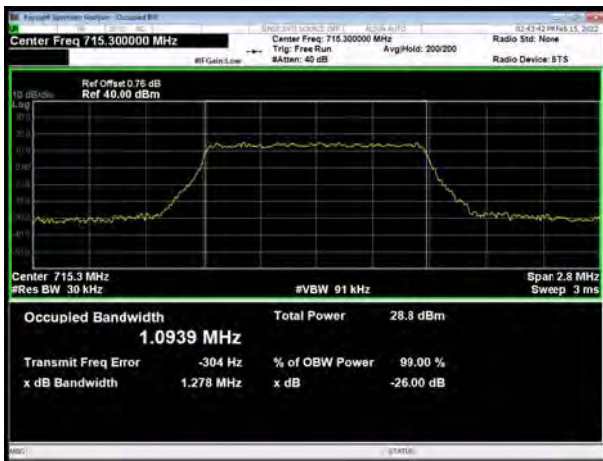
LTE Band 12 64QAM 1.4MHz CH-Middle



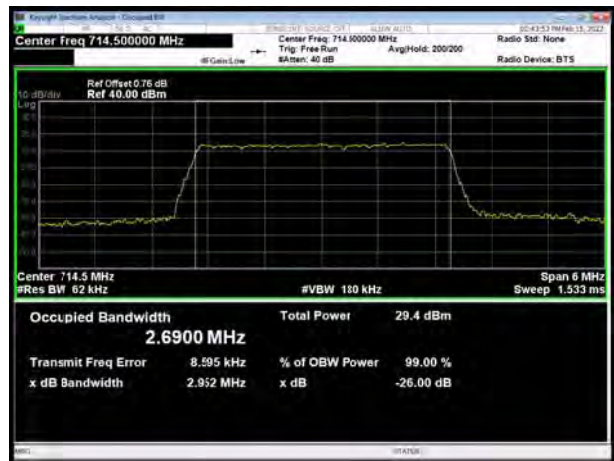
LTE Band 12 64QAM 3MHz CH-Middle



LTE Band 12 64QAM 1.4MHz CH-High

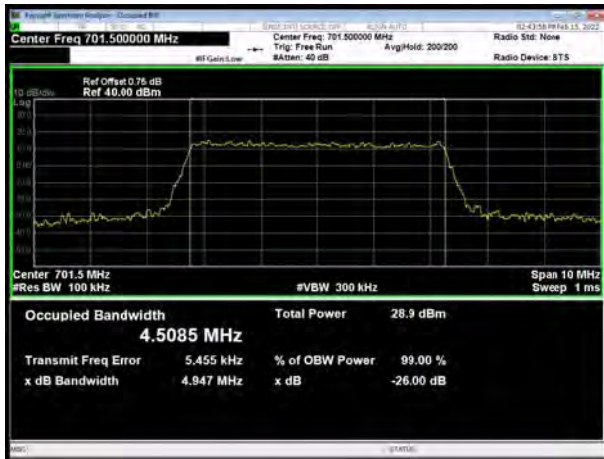


LTE Band 12 64QAM 3MHz CH-High

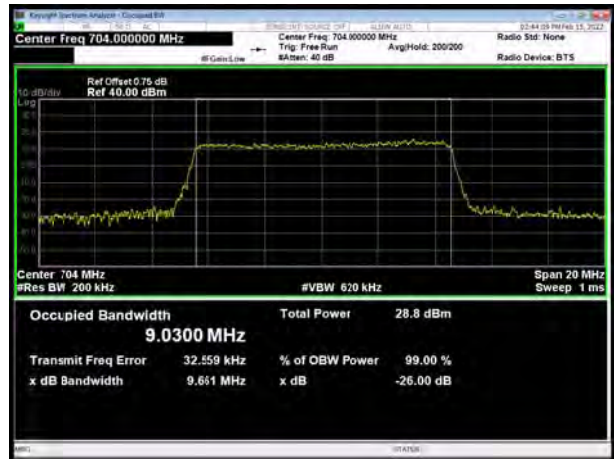




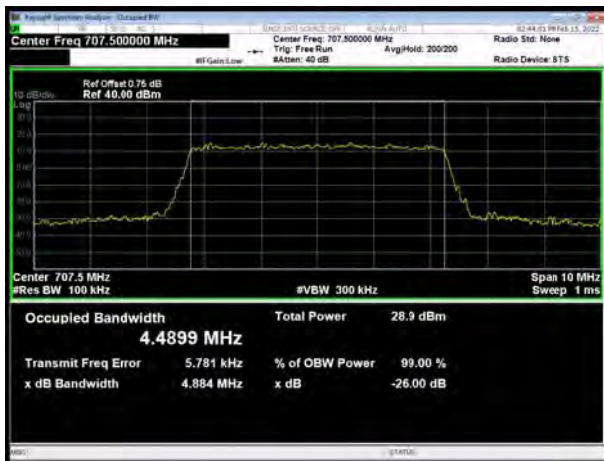
LTE Band 12 64QAM 5MHz CH-Low



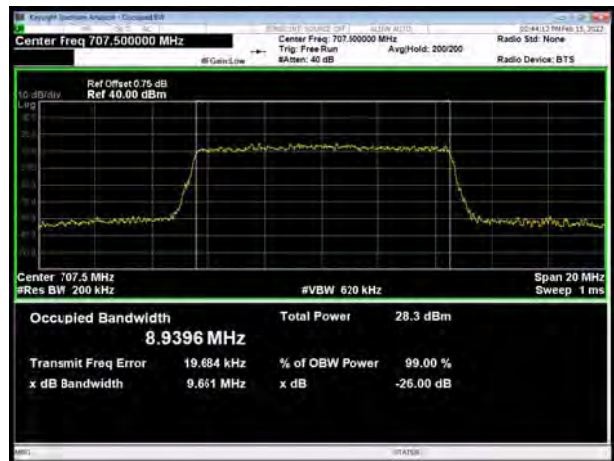
LTE Band 12 64QAM 10MHz CH-Low



LTE Band 12 64QAM 5MHz CH-Middle



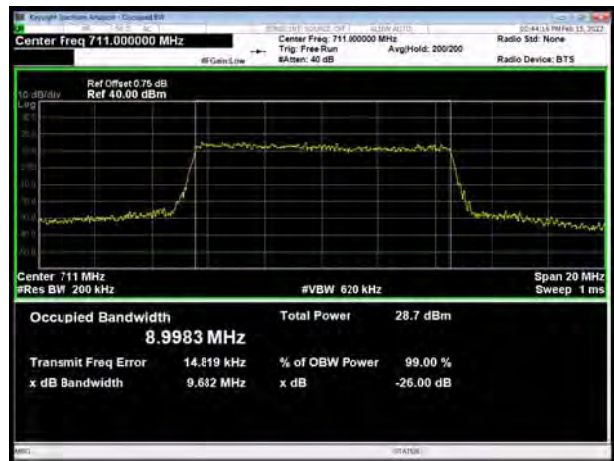
LTE Band 12 64QAM 10MHz CH-Middle



LTE Band 12 64QAM 5MHz CH-High

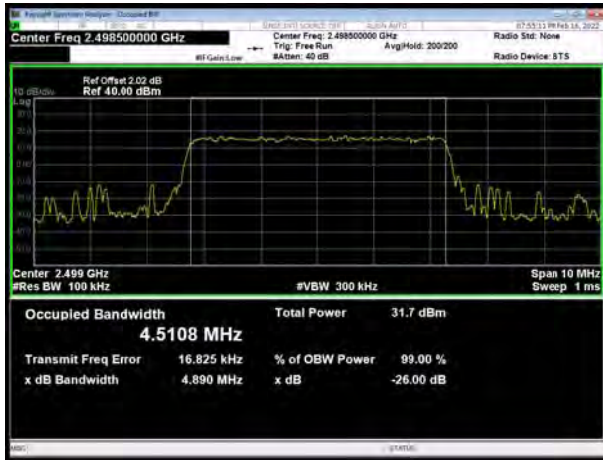


LTE Band 12 64QAM 10MHz CH-High

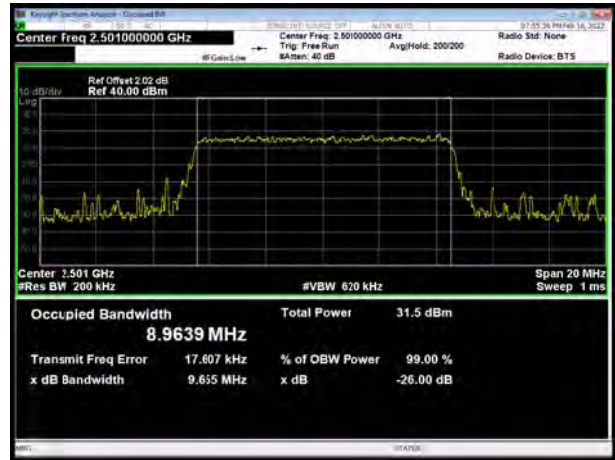




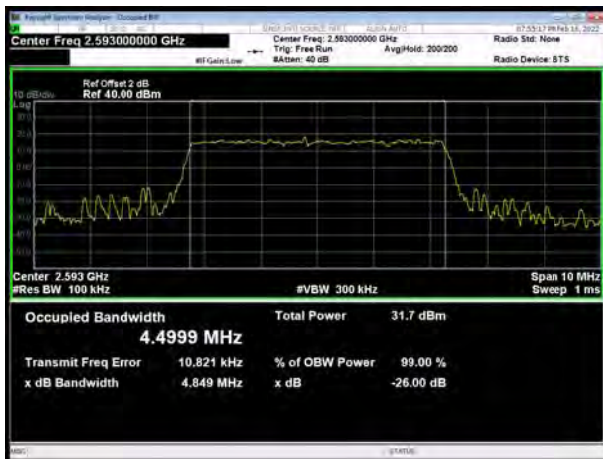
LTE Band 41 QPSK 5MHz CH-Low



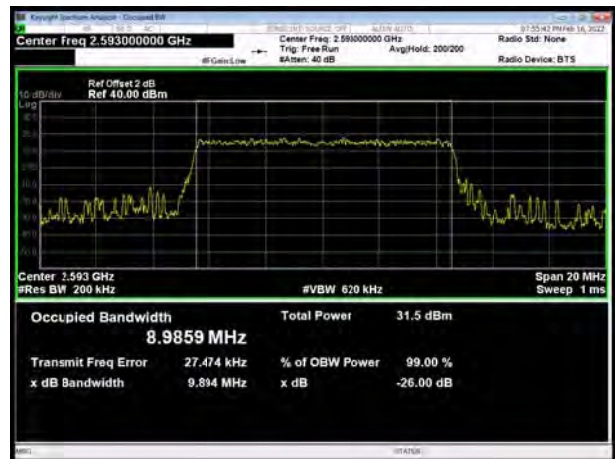
LTE Band 41 QPSK 10MHz CH-Low



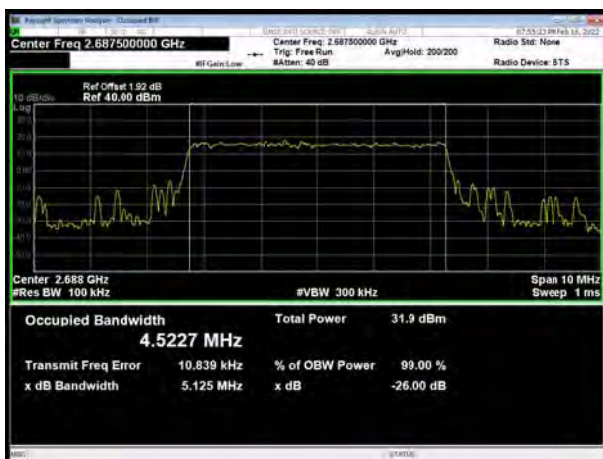
LTE Band 41 QPSK 5MHz CH-Middle



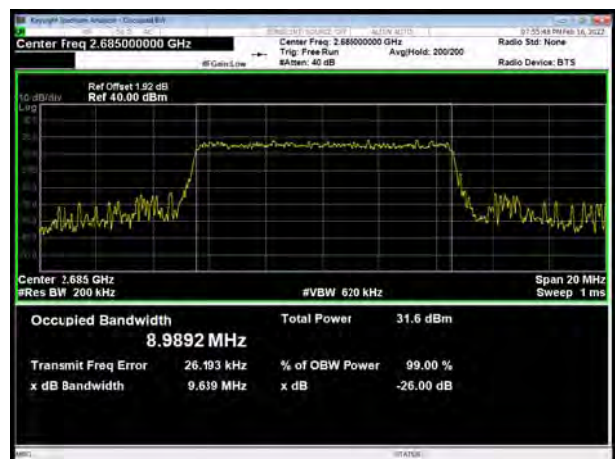
LTE Band 41 QPSK 10MHz CH-Middle



LTE Band 41 QPSK 5MHz CH-High

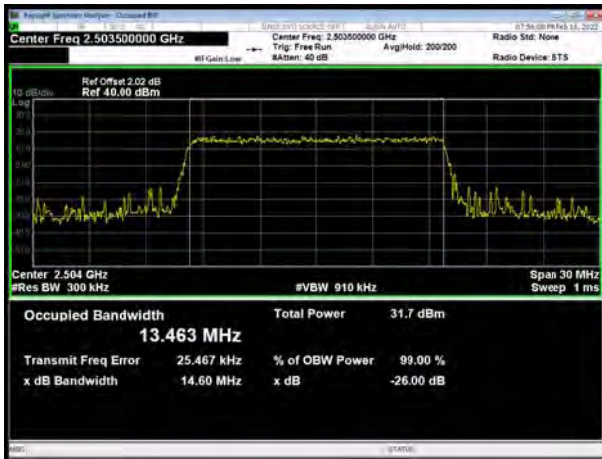


LTE Band 41 QPSK 10MHz CH-High

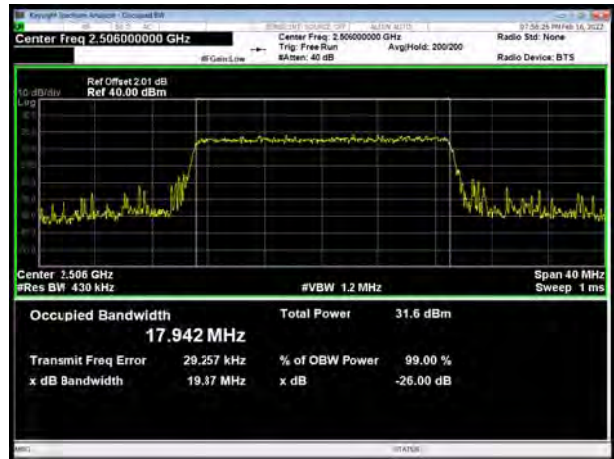




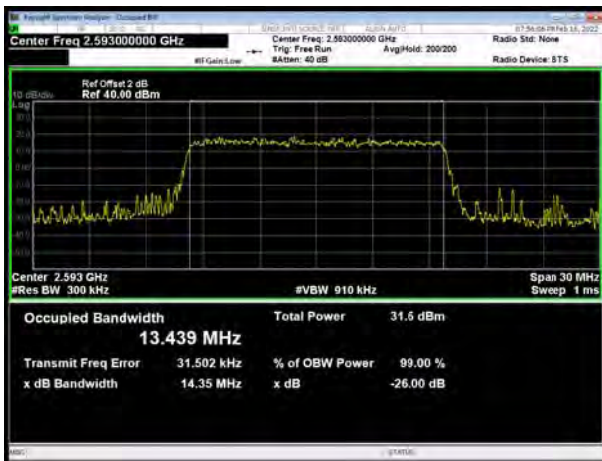
LTE Band 41 QPSK 15MHz CH-Low



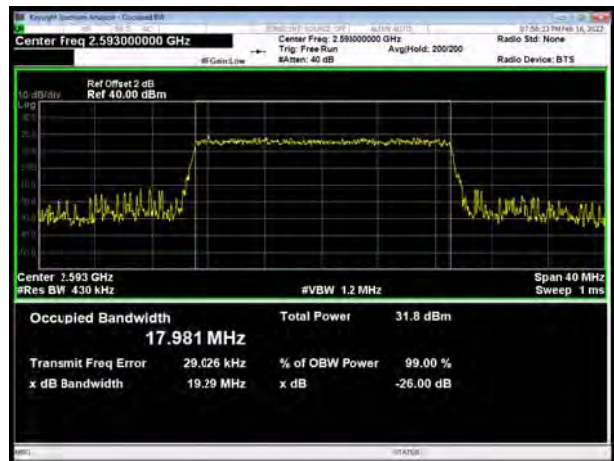
LTE Band 41 QPSK 20MHz CH-Low



LTE Band 41 QPSK 15MHz CH-Middle



LTE Band 41 QPSK 20MHz CH-Middle



LTE Band 41 QPSK 15MHz CH-High



LTE Band 41 QPSK 20MHz CH-High

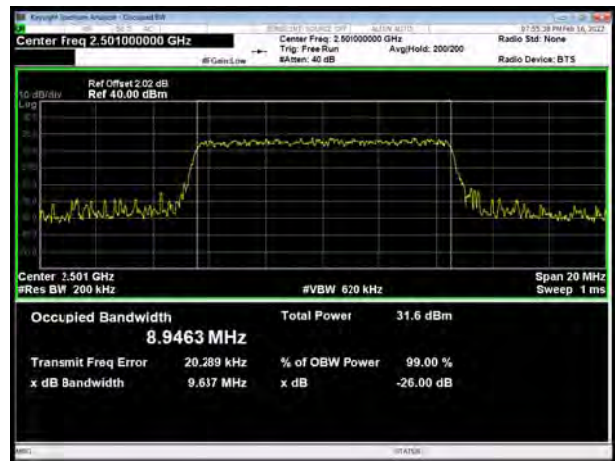




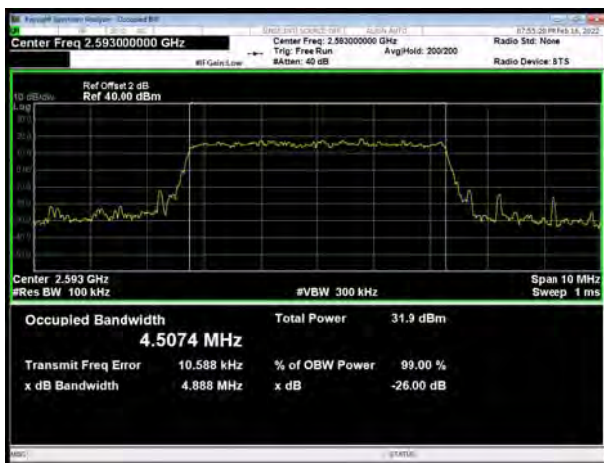
LTE Band 41 16QAM 5MHz CH-Low



LTE Band 41 16QAM 10MHz CH-Low



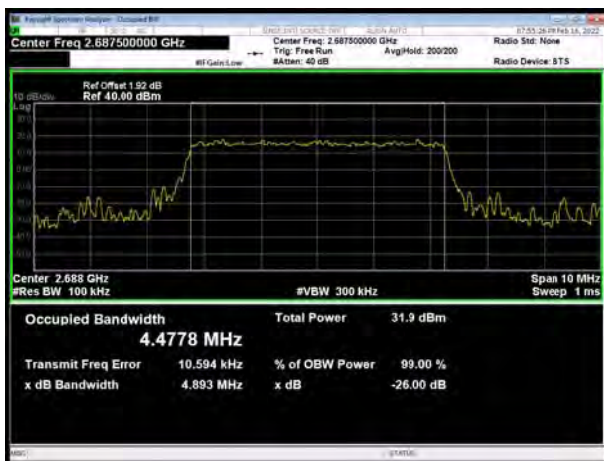
LTE Band 41 16QAM 5MHz CH-Middle



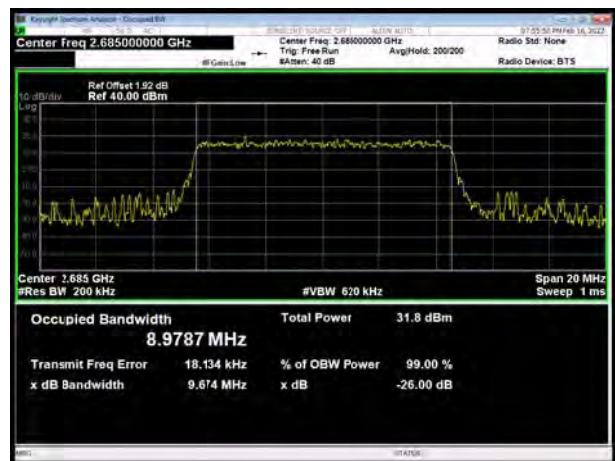
LTE Band 41 16QAM 10MHz CH-Middle



LTE Band 41 16QAM 5MHz CH-High

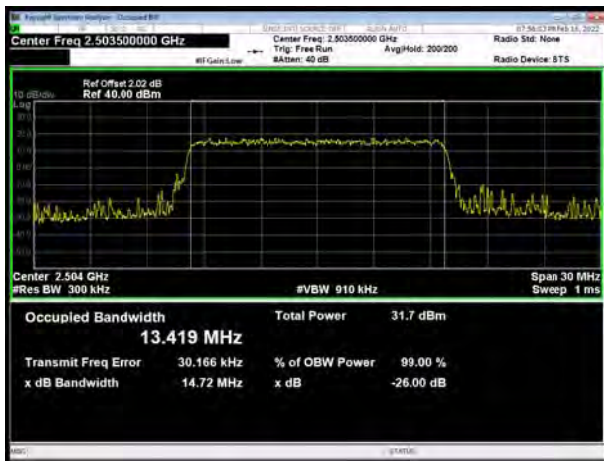


LTE Band 41 16QAM 10MHz CH-High

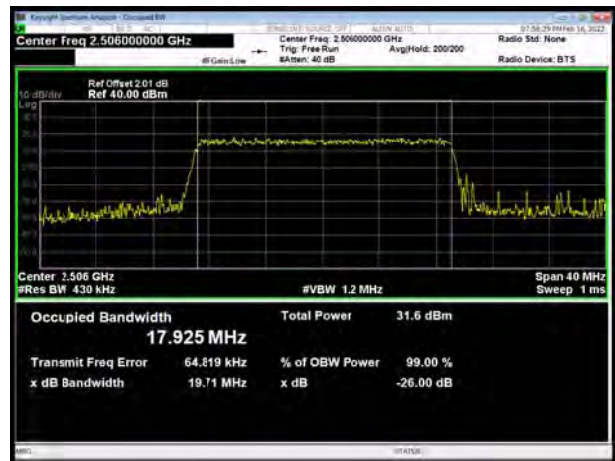




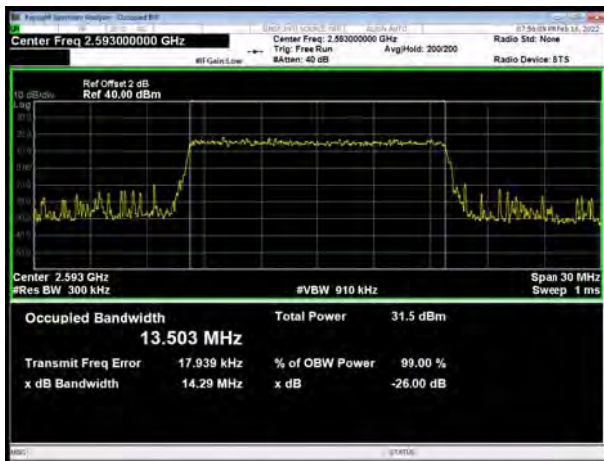
LTE Band 41 16QAM 15MHz CH-Low



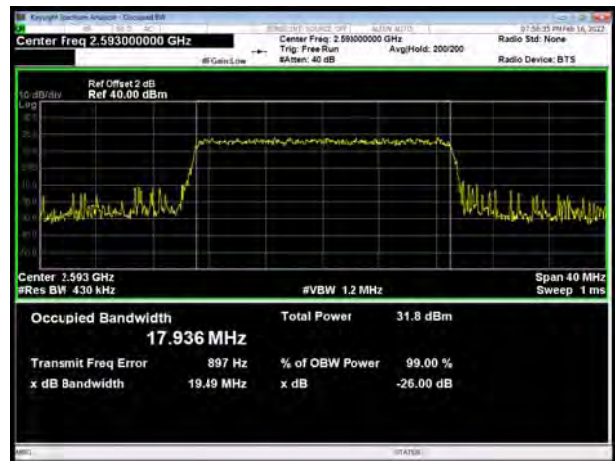
LTE Band 41 16QAM 20MHz CH-Low



LTE Band 41 16QAM 15MHz CH-Middle



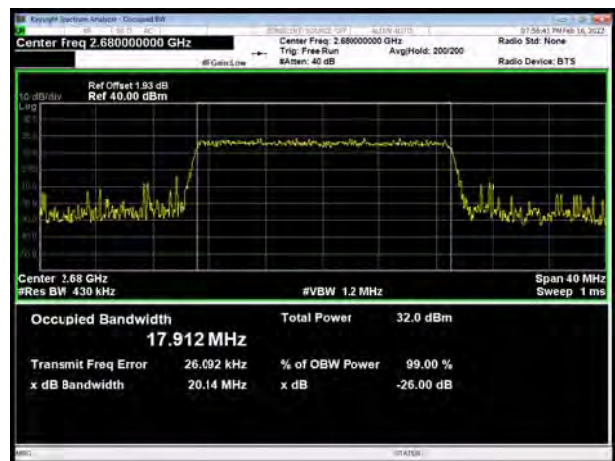
LTE Band 41 16QAM 20MHz CH-Middle



LTE Band 41 16QAM 15MHz CH-High

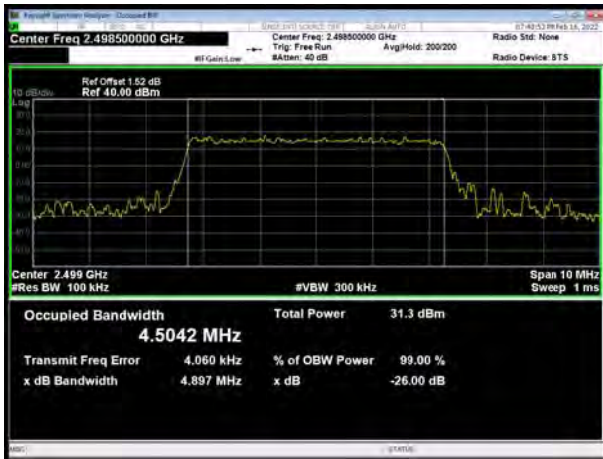


LTE Band 41 16QAM 20MHz CH-High

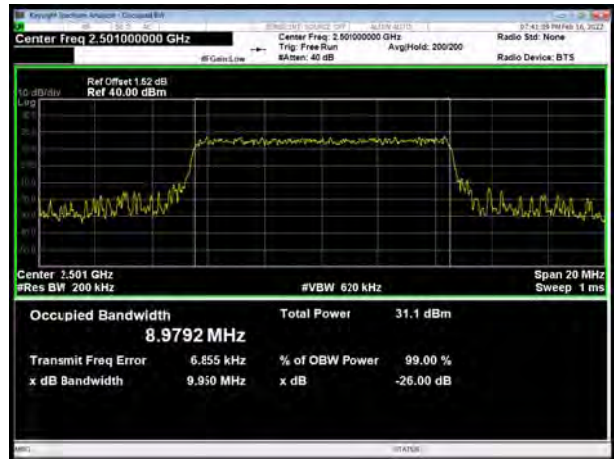




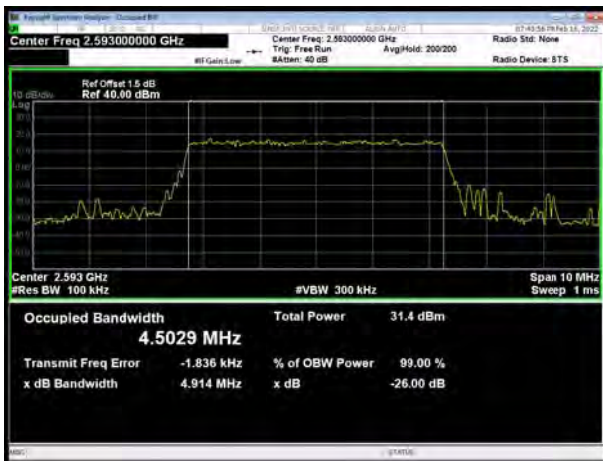
LTE Band 41 64QAM 5MHz CH-Low



LTE Band 41 64QAM 10MHz CH-Low



LTE Band 41 64QAM 5MHz CH-Middle



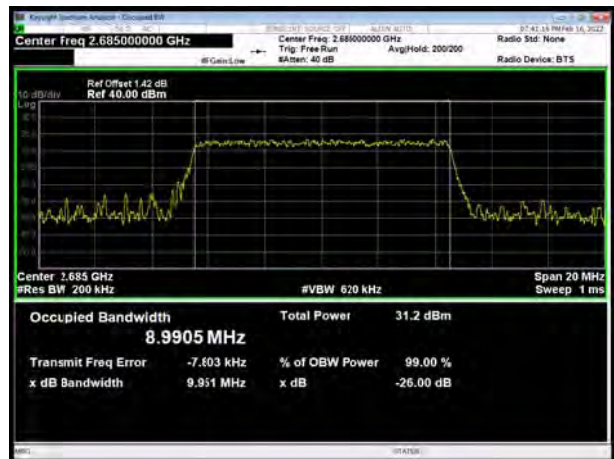
LTE Band 41 64QAM 10MHz CH-Middle



LTE Band 41 64QAM 5MHz CH-High

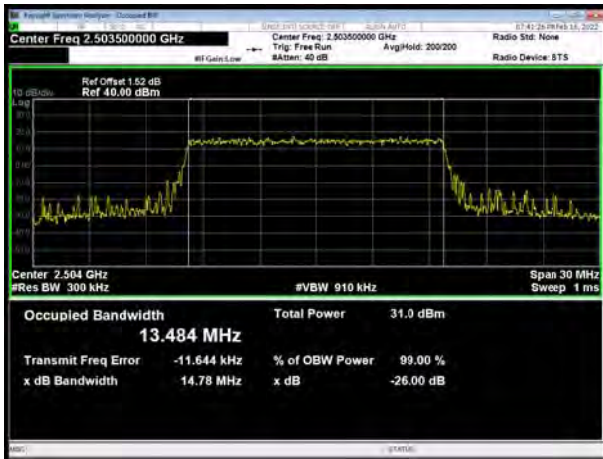


LTE Band 41 64QAM 10MHz CH-High

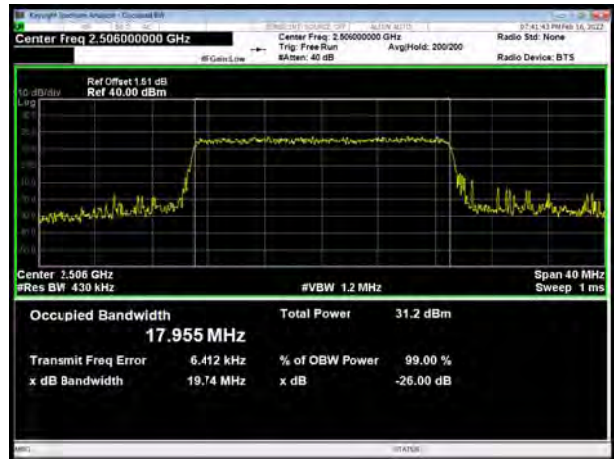




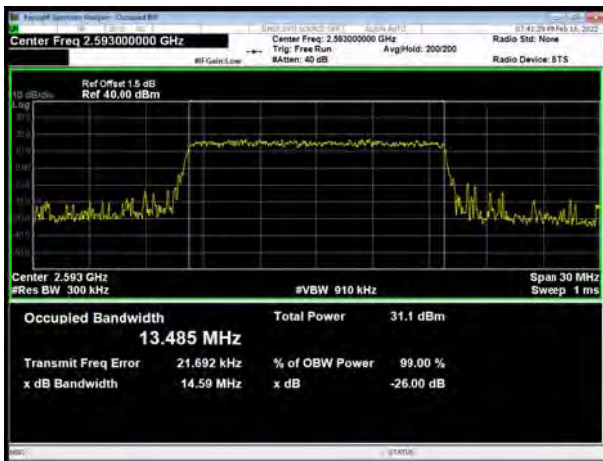
LTE Band 41 64QAM 15MHz CH-Low



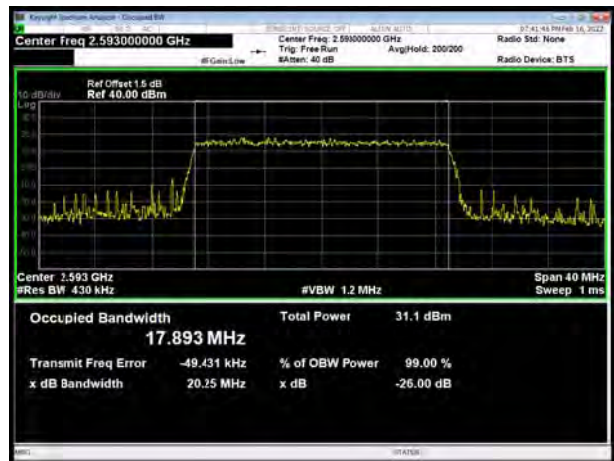
LTE Band 41 64QAM 20MHz CH-Low



LTE Band 41 64QAM 15MHz CH-Middle



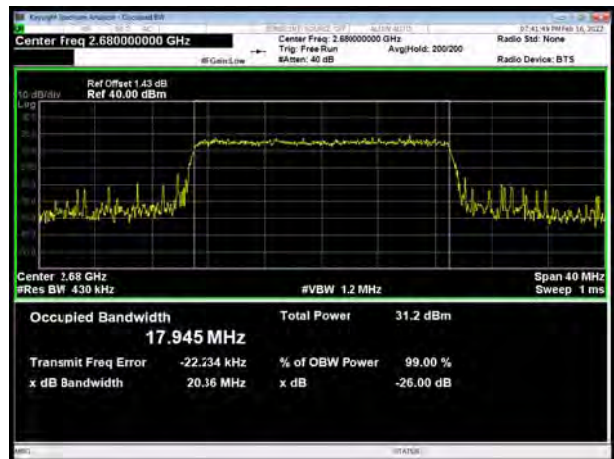
LTE Band 41 64QAM 20MHz CH-Middle



LTE Band 41 64QAM 15MHz CH-High

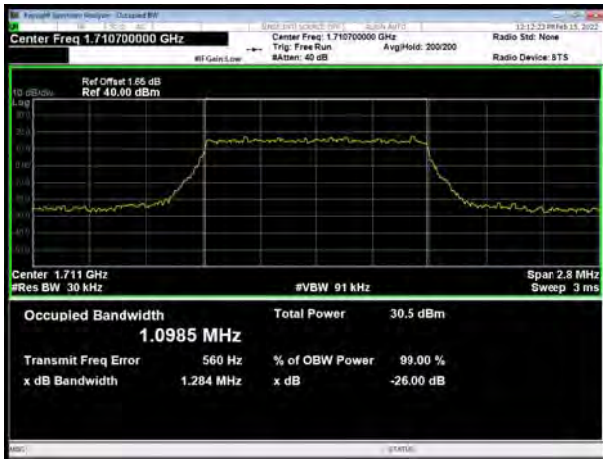


LTE Band 41 64QAM 20MHz CH-High

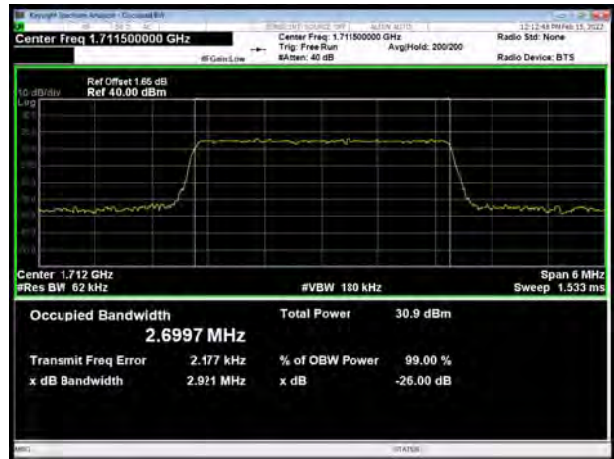




LTE Band 66 QPSK 1.4MHz CH-Low



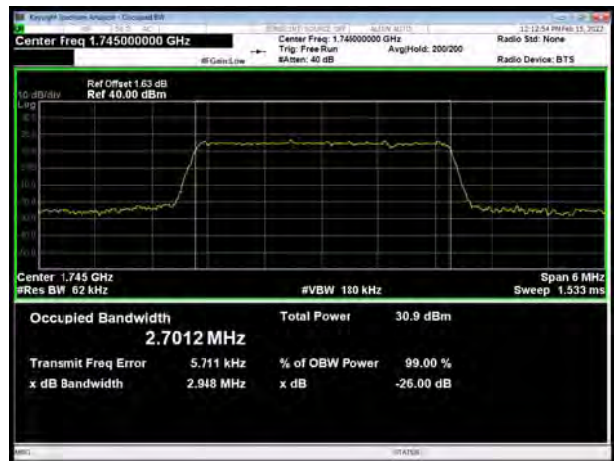
LTE Band 66 QPSK 3MHz CH-Low



LTE Band 66 QPSK 1.4MHz CH-Middle



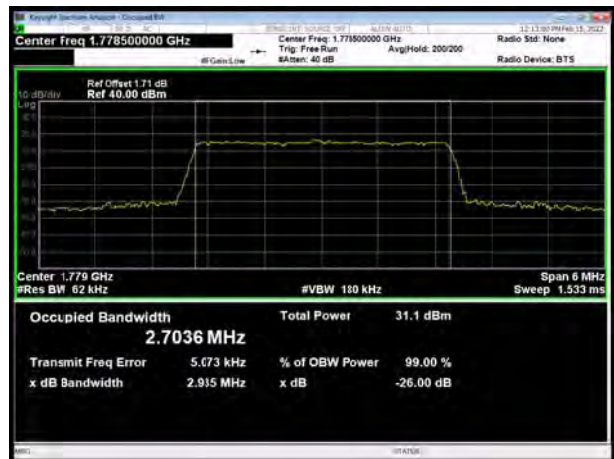
LTE Band 66 QPSK 3MHz CH-Middle



LTE Band 66 QPSK 1.4MHz CH-High

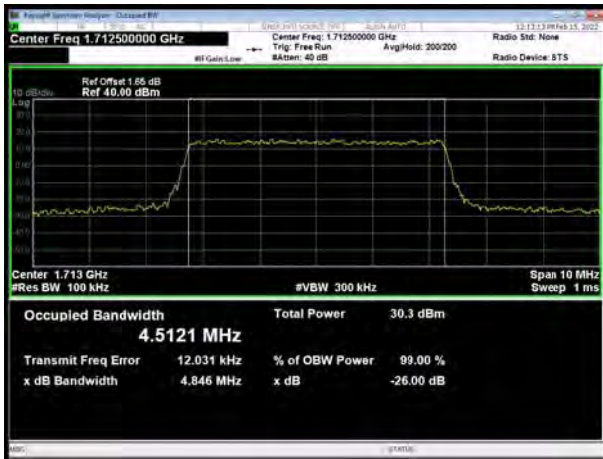


LTE Band 66 QPSK 3MHz CH-High

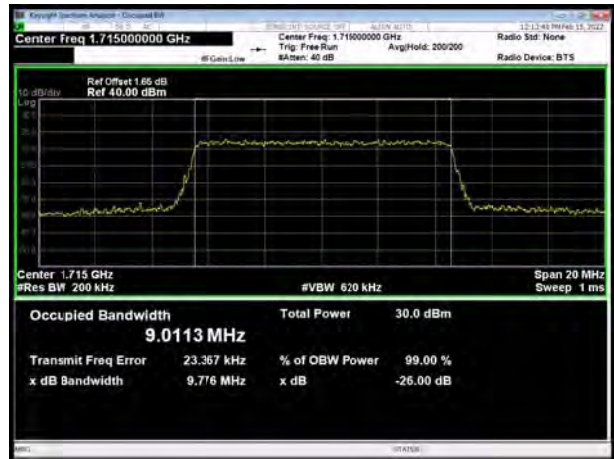




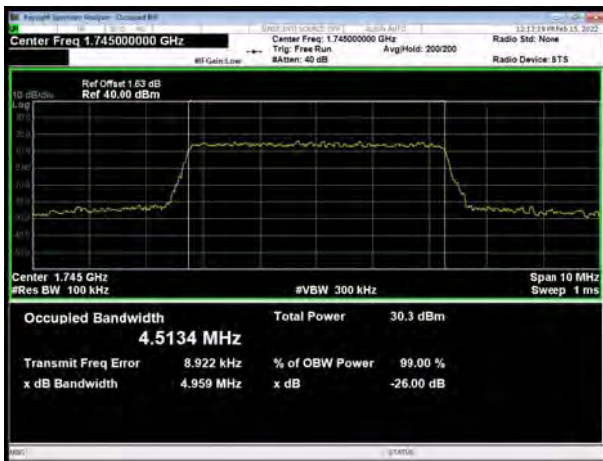
LTE Band 66 QPSK 5MHz CH-Low



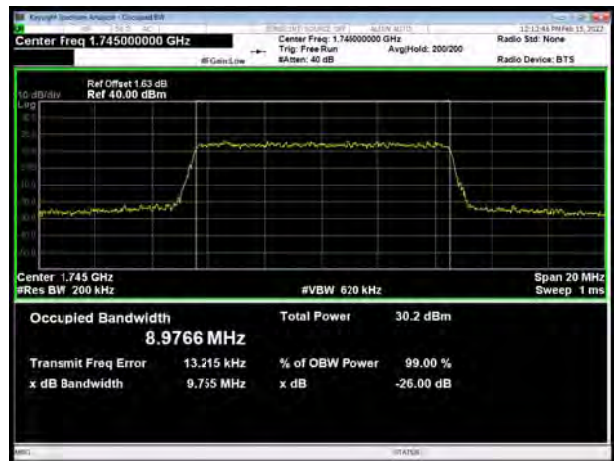
LTE Band 66 QPSK 10MHz CH-Low



LTE Band 66 QPSK 5MHz CH-Middle



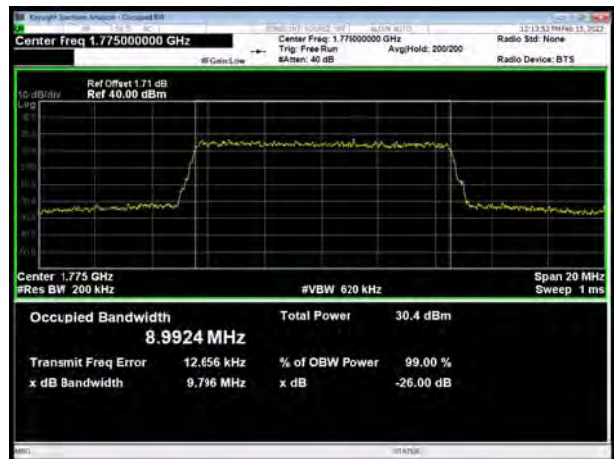
LTE Band 66 QPSK 10MHz CH-Middle



LTE Band 66 QPSK 5MHz CH-High

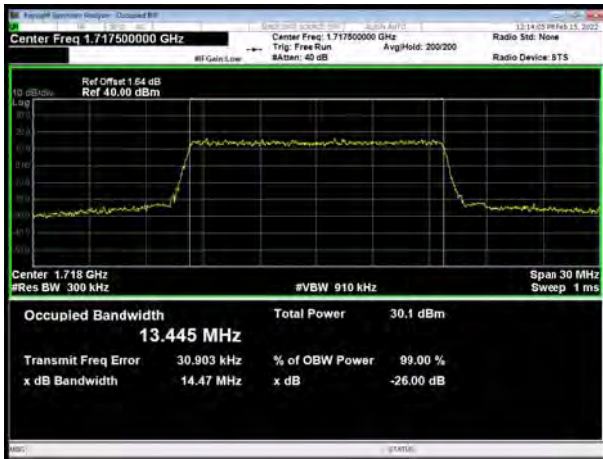


LTE Band 66 QPSK 10MHz CH-High

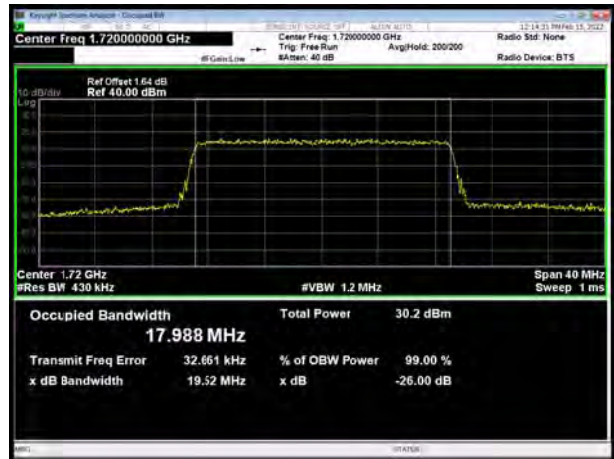




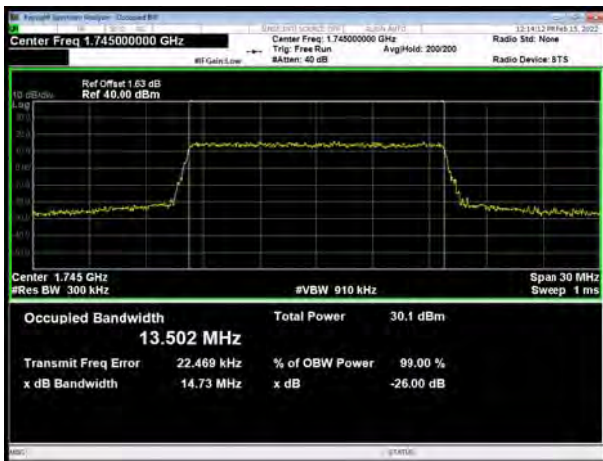
LTE Band 66 QPSK 15MHz CH-Low



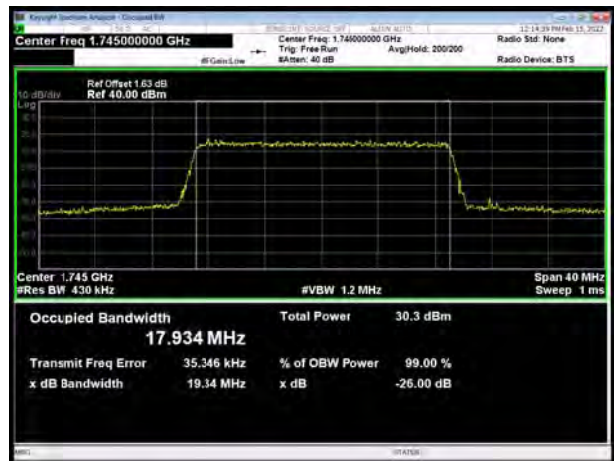
LTE Band 66 QPSK 20MHz CH-Low



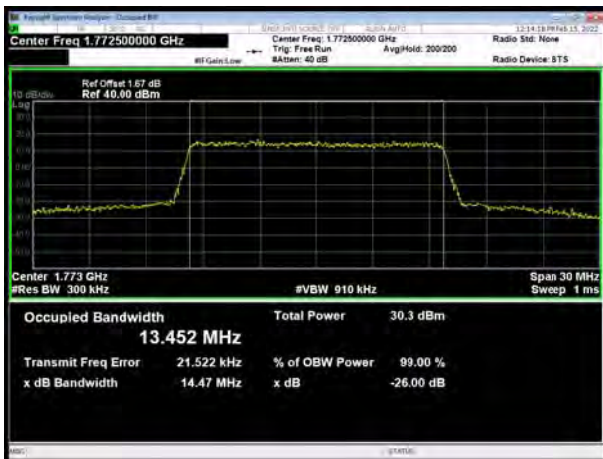
LTE Band 66 QPSK 15MHz CH-Middle



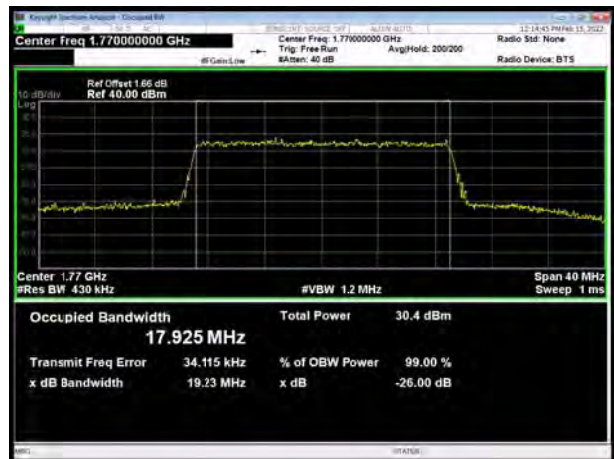
LTE Band 66 QPSK 20MHz CH-Middle



LTE Band 66 QPSK 15MHz CH-High

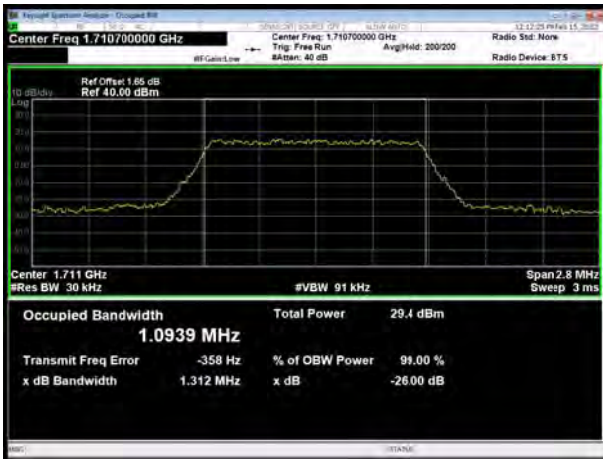


LTE Band 66 QPSK 20MHz CH-High

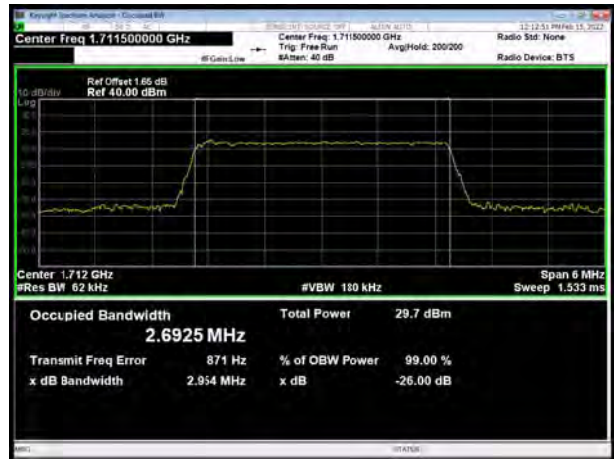




LTE Band 66 16QAM 1.4MHz CH-Low



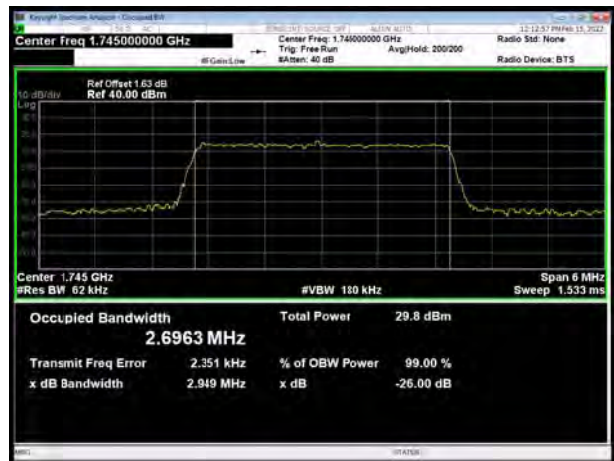
LTE Band 66 16QAM 3MHz CH-Low



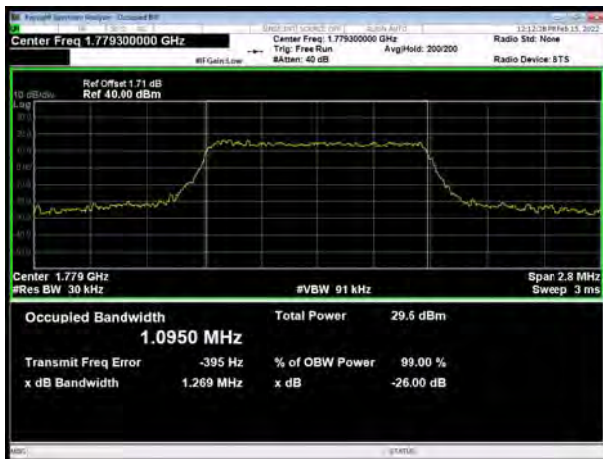
LTE Band 66 16QAM 1.4MHz CH-Middle



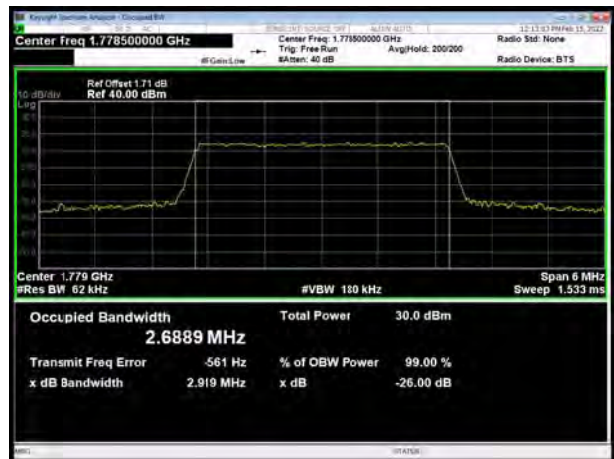
LTE Band 66 16QAM 3MHz CH-Middle



LTE Band 66 16QAM 1.4MHz CH-High

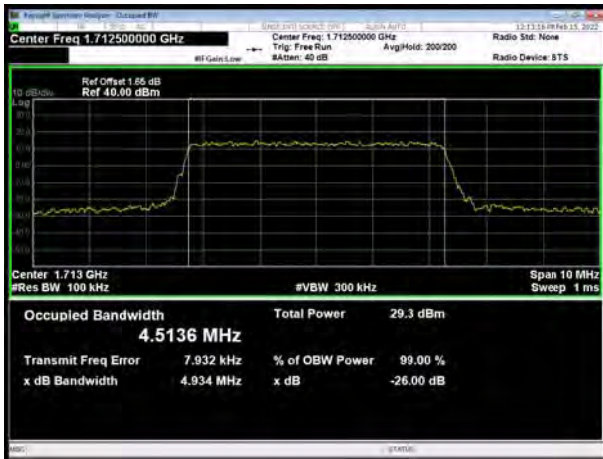


LTE Band 66 16QAM 3MHz CH-High

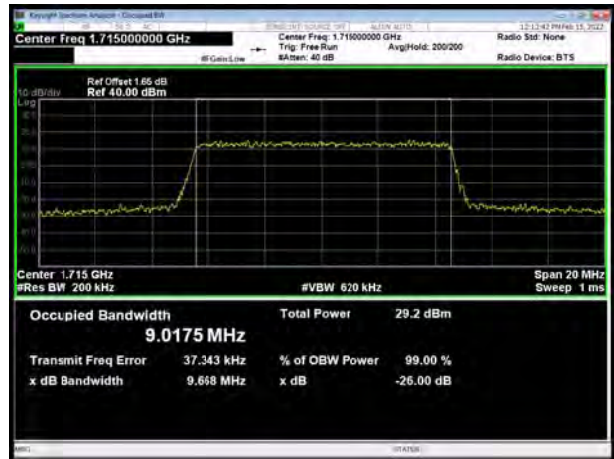




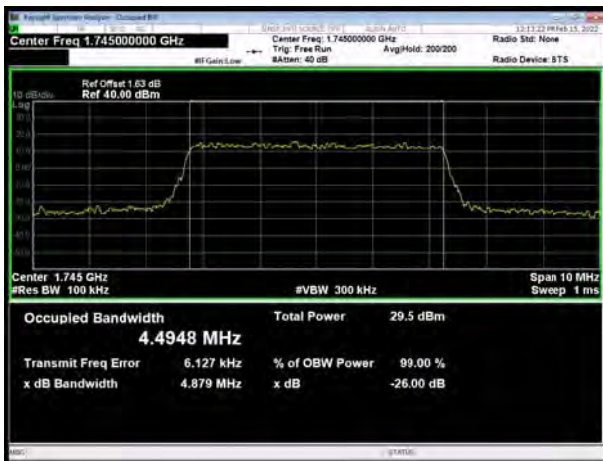
LTE Band 66 16QAM 5MHz CH-Low



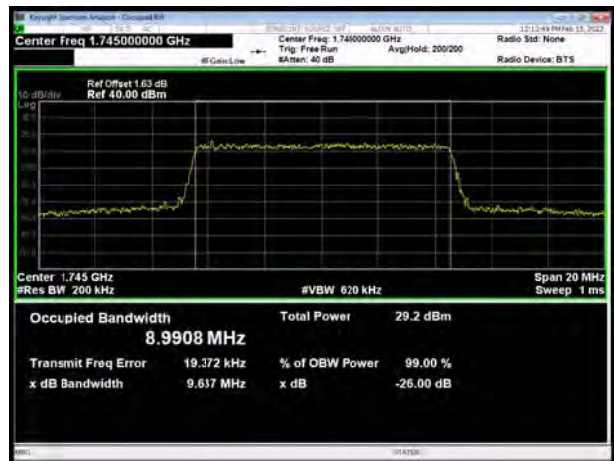
LTE Band 66 16QAM 10MHz CH-Low



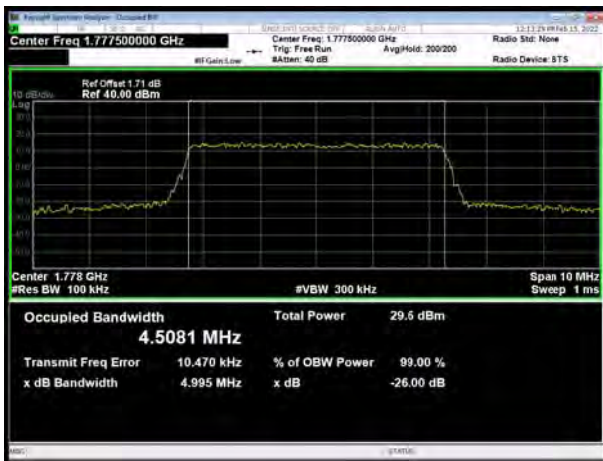
LTE Band 66 16QAM 5MHz CH-Middle



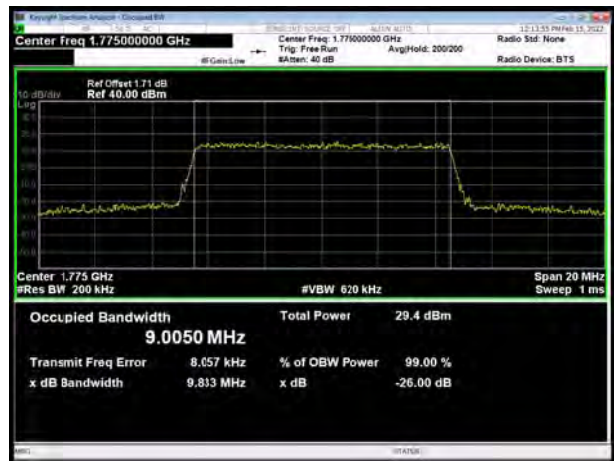
LTE Band 66 16QAM 10MHz CH-Middle



LTE Band 66 16QAM 5MHz CH-High

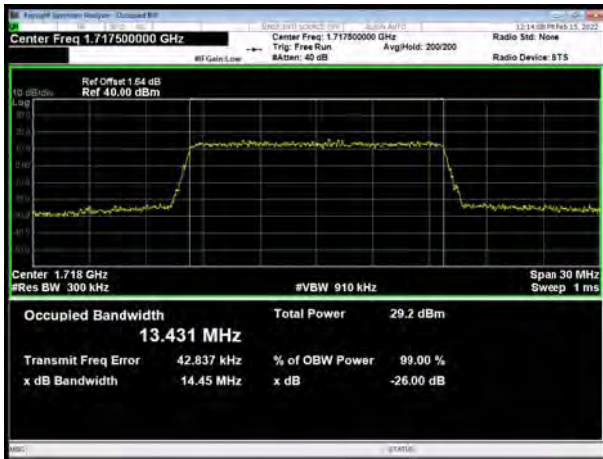


LTE Band 66 16QAM 10MHz CH-High

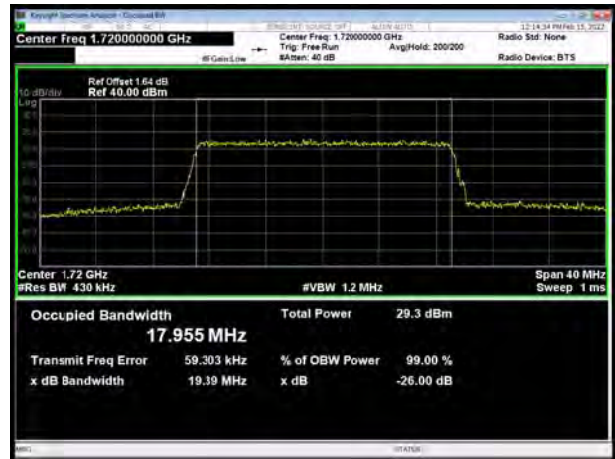




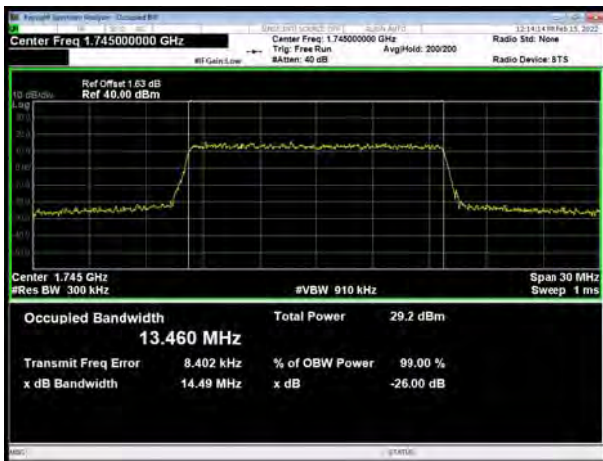
LTE Band 66 16QAM 15MHz CH-Low



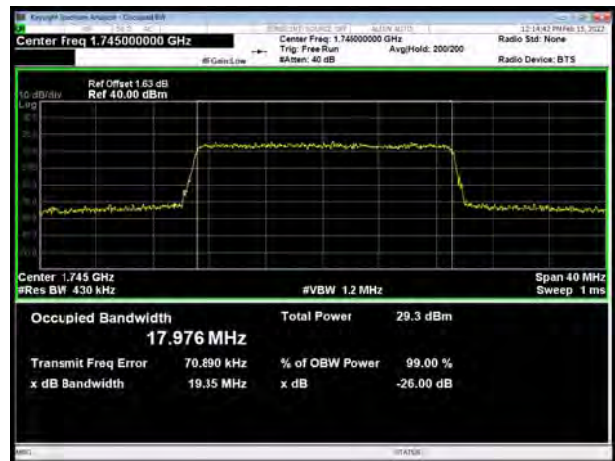
LTE Band 66 16QAM 20MHz CH-Low



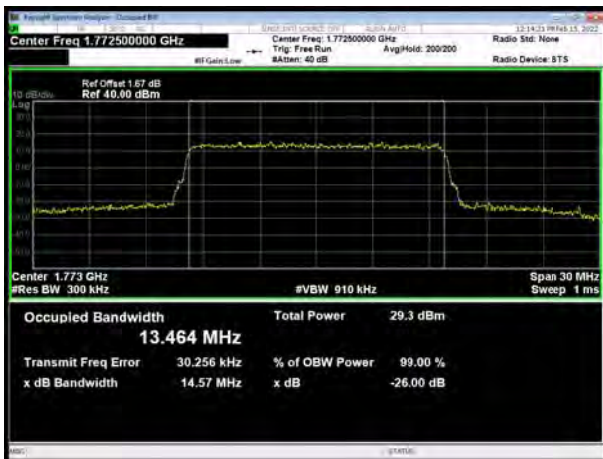
LTE Band 66 16QAM 15MHz CH-Middle



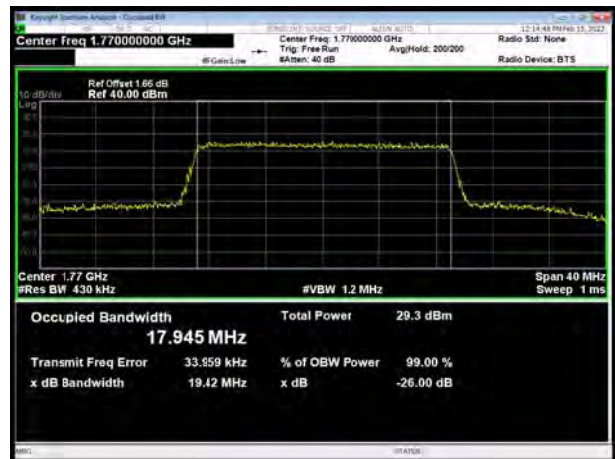
LTE Band 66 16QAM 20MHz CH-Middle



LTE Band 66 16QAM 15MHz CH-High

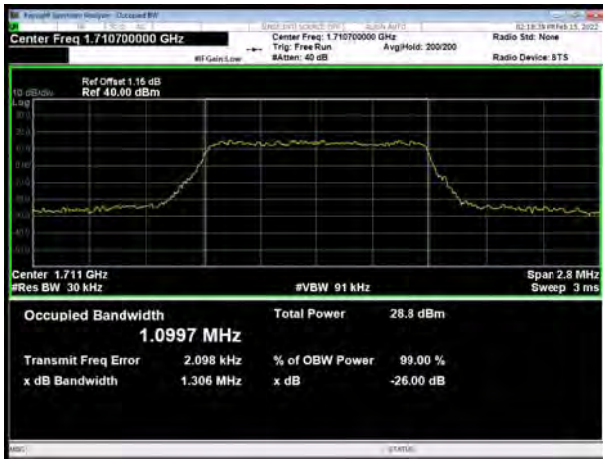


LTE Band 66 16QAM 20MHz CH-High

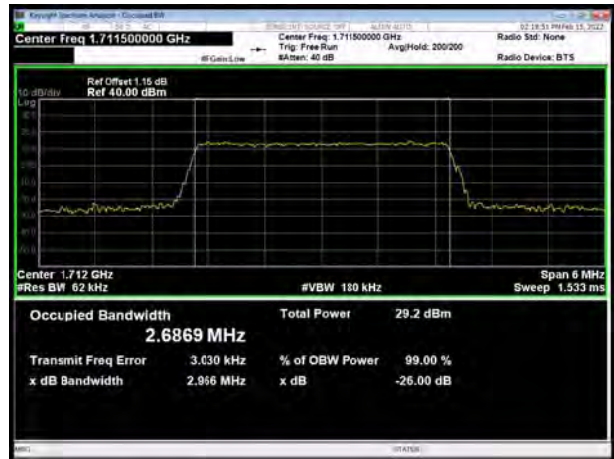




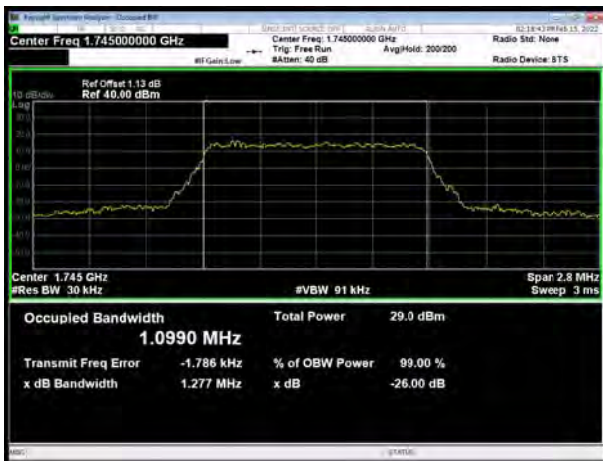
LTE Band 66 64QAM 1.4MHz CH-Low



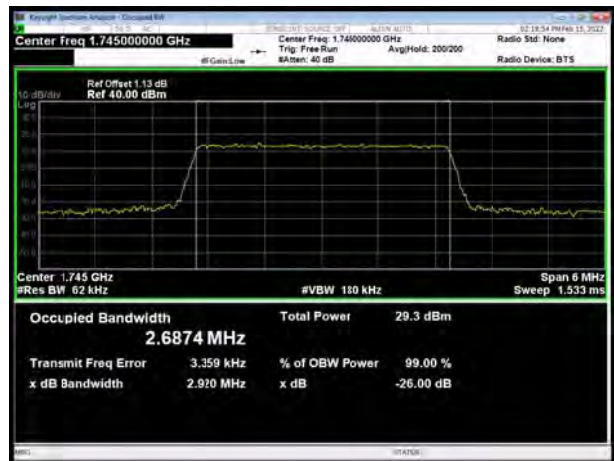
LTE Band 66 64QAM 3MHz CH-Low



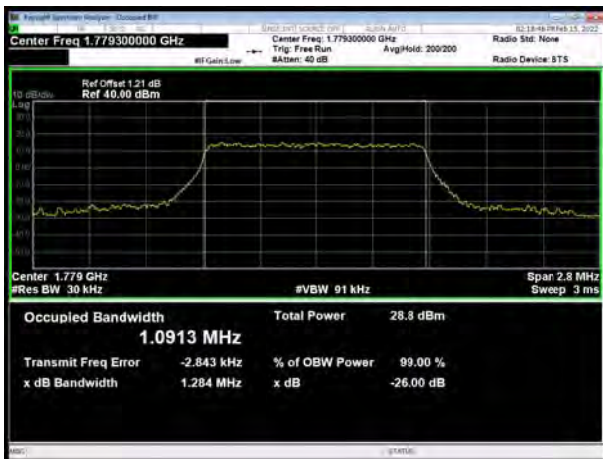
LTE Band 66 64QAM 1.4MHz CH-Middle



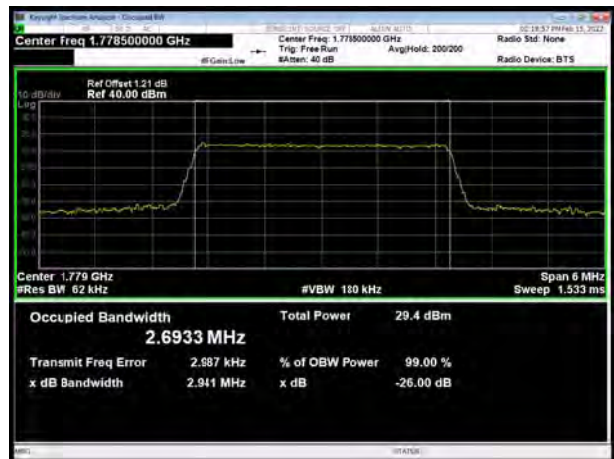
LTE Band 66 64QAM 3MHz CH-Middle



LTE Band 66 64QAM 1.4MHz CH-High

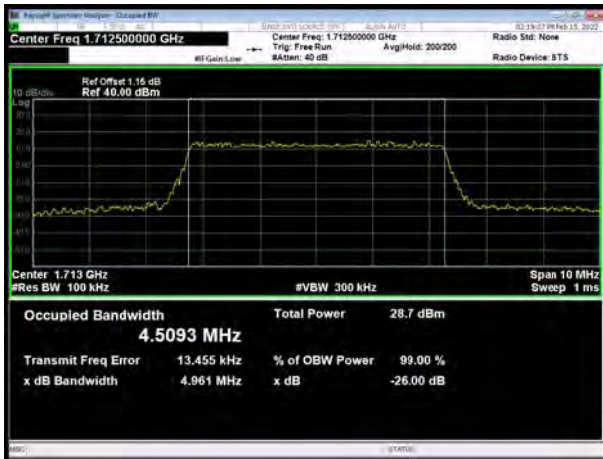


LTE Band 66 64QAM 3MHz CH-High

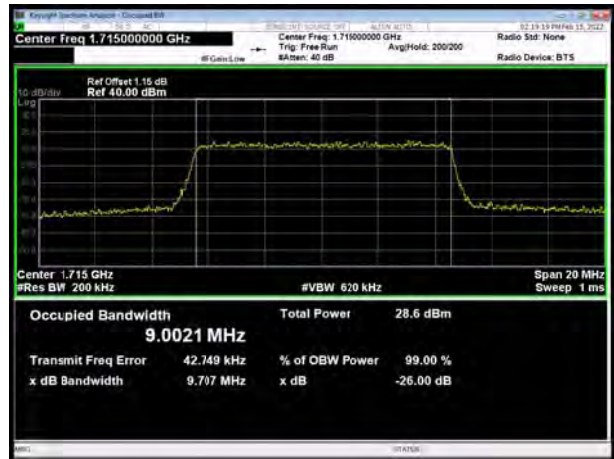




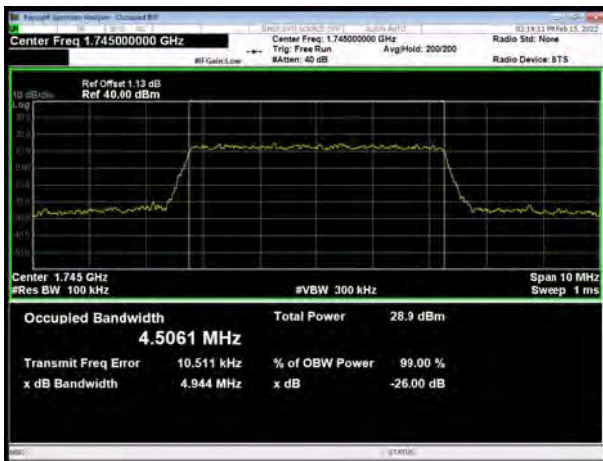
LTE Band 66 64QAM 5MHz CH-Low



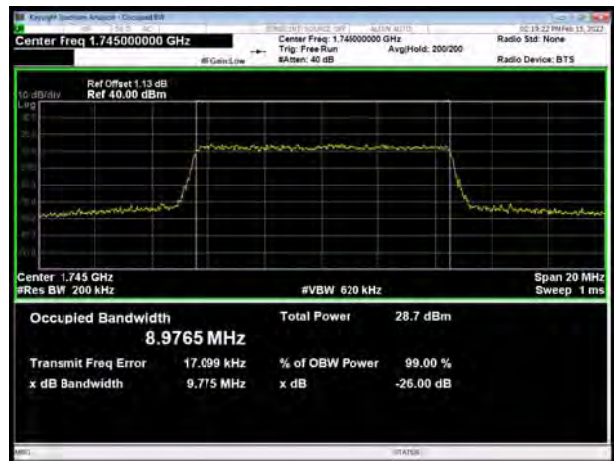
LTE Band 66 64QAM 10MHz CH-Low



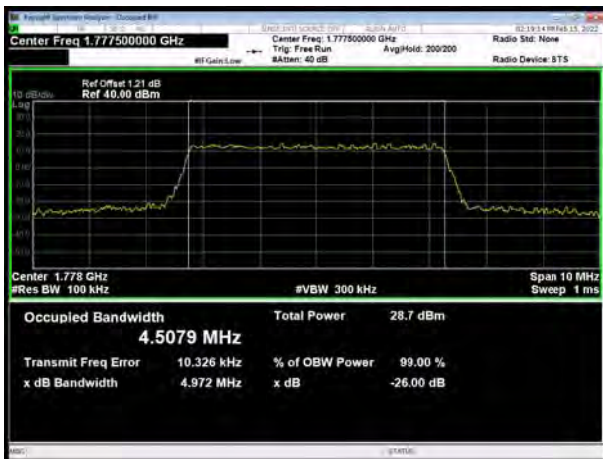
LTE Band 66 64QAM 5MHz CH-Middle



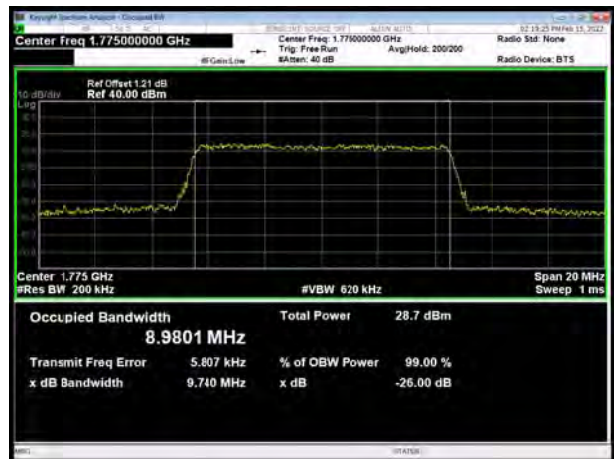
LTE Band 66 64QAM 10MHz CH-Middle



LTE Band 66 64QAM 5MHz CH-High

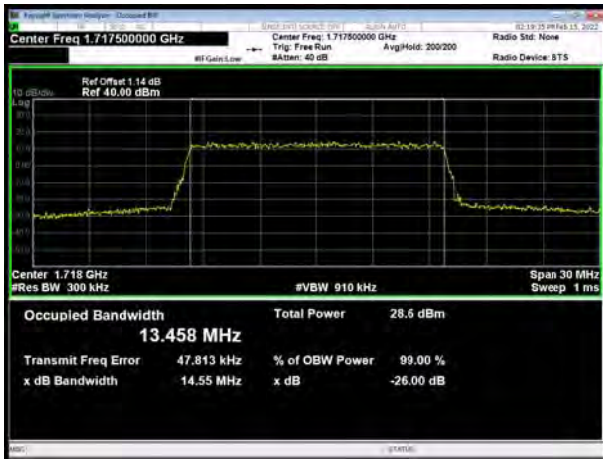


LTE Band 66 64QAM 10MHz CH-High

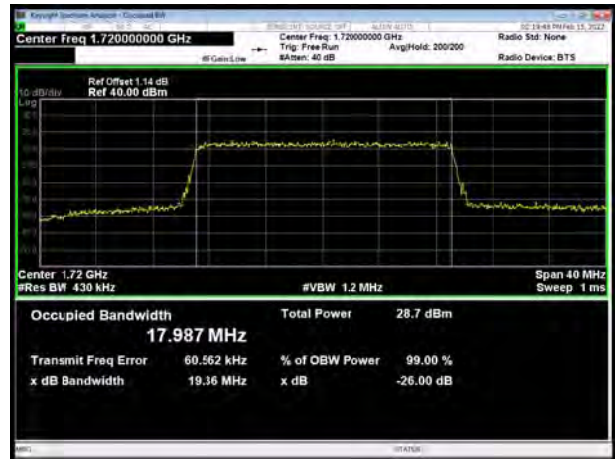




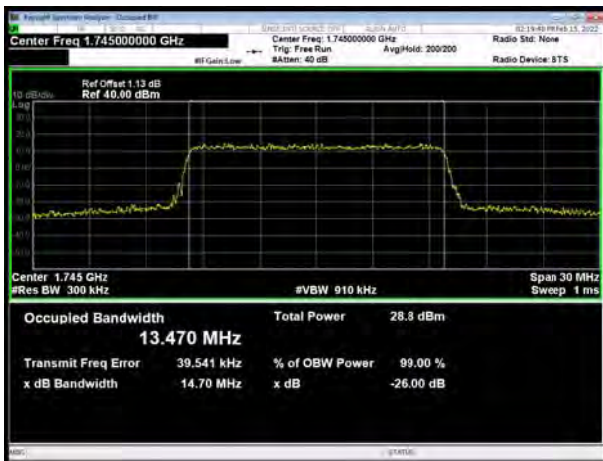
LTE Band 66 64QAM 15MHz CH-Low



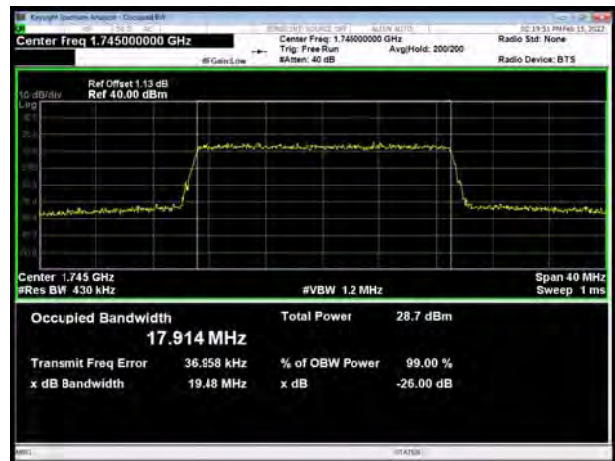
LTE Band 66 64QAM 20MHz CH-Low



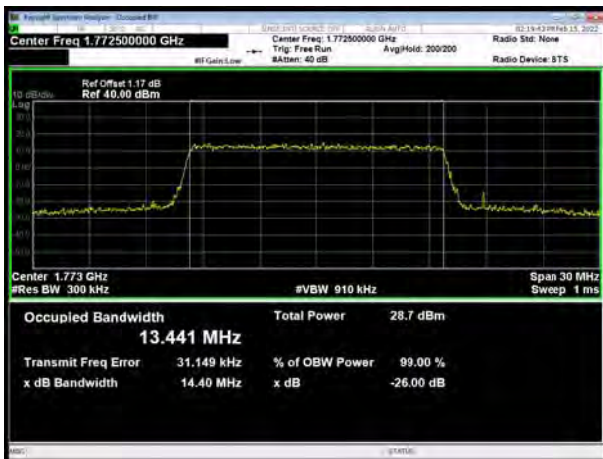
LTE Band 66 64QAM 15MHz CH-Middle



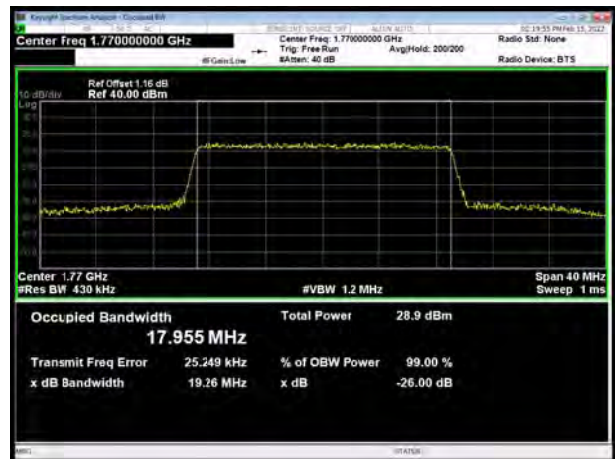
LTE Band 66 64QAM 20MHz CH-Middle



LTE Band 66 64QAM 15MHz CH-High

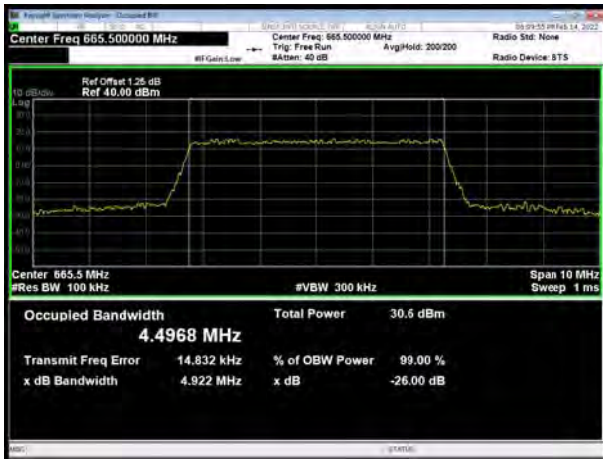


LTE Band 66 64QAM 20MHz CH-High

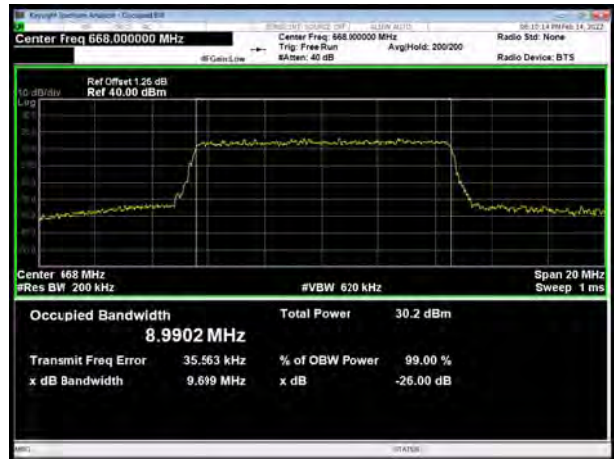




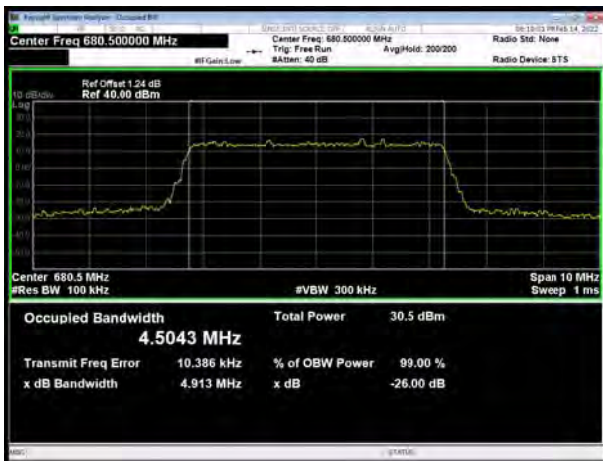
LTE Band 71 QPSK 5MHz CH-Low



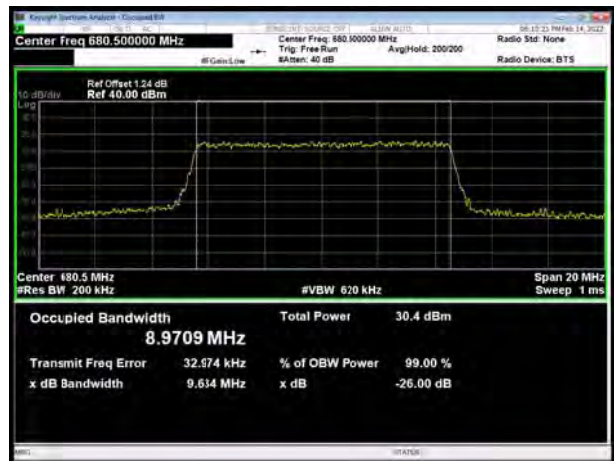
LTE Band 71 QPSK 10MHz CH-Low



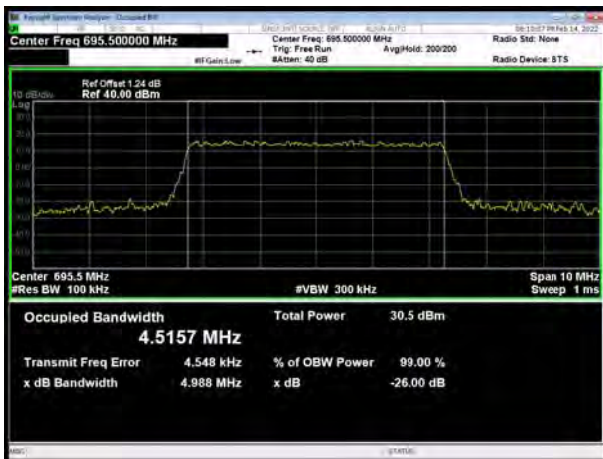
LTE Band 71 QPSK 5MHz CH-Middle



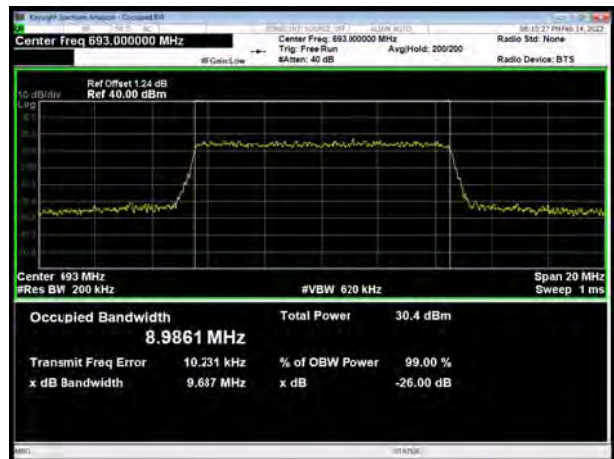
LTE Band 71 QPSK 10MHz CH-Middle



LTE Band 71 QPSK 5MHz CH-High

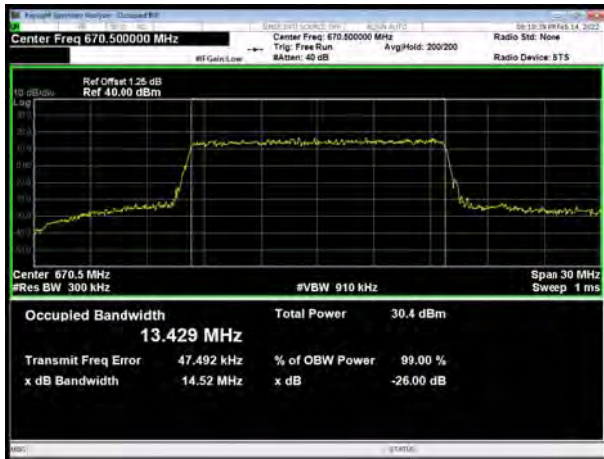


LTE Band 71 QPSK 10MHz CH-High





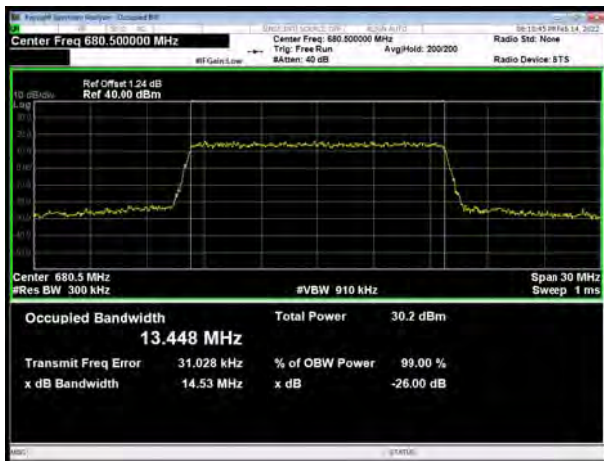
LTE Band 71 QPSK 15MHz CH-Low



LTE Band 71 QPSK 20MHz CH-Low



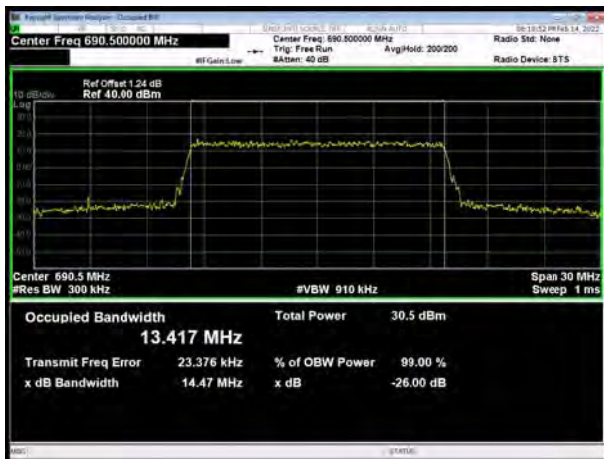
LTE Band 71 QPSK 15MHz CH-Middle



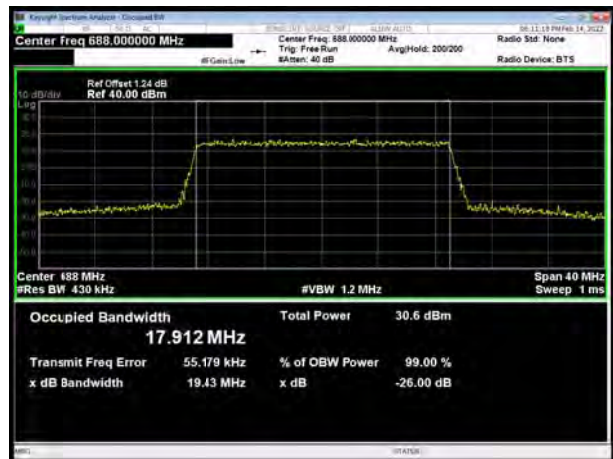
LTE Band 71 QPSK 20MHz CH-Middle



LTE Band 71 QPSK 15MHz CH-High

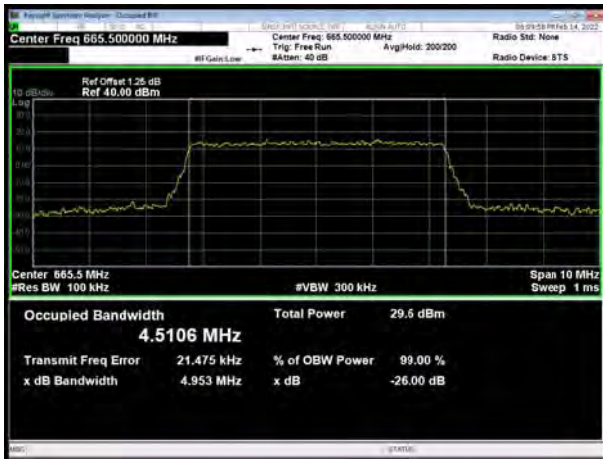


LTE Band 71 QPSK 20MHz CH-High

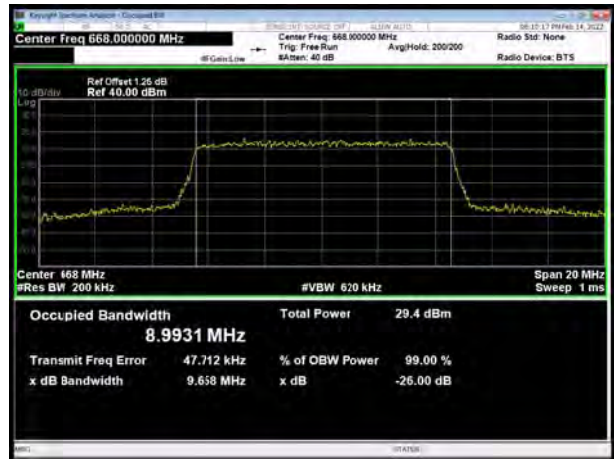




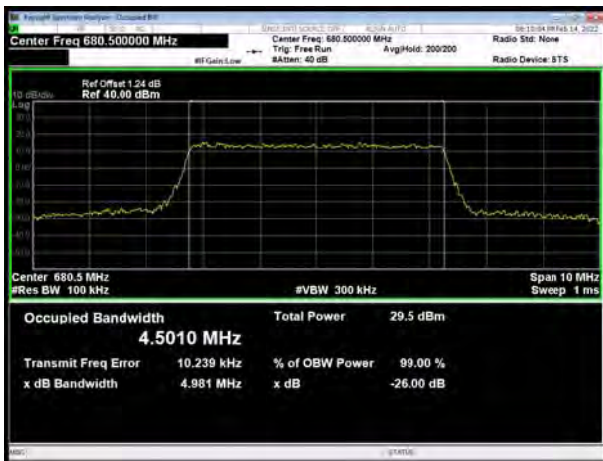
LTE Band 71 16QAM 5MHz CH-Low



LTE Band 71 16QAM 10MHz CH-Low



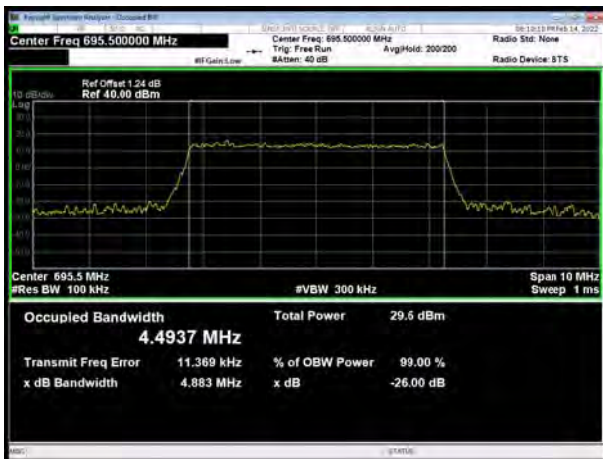
LTE Band 71 16QAM 5MHz CH-Middle



LTE Band 71 16QAM 10MHz CH-Middle



LTE Band 71 16QAM 5MHz CH-High

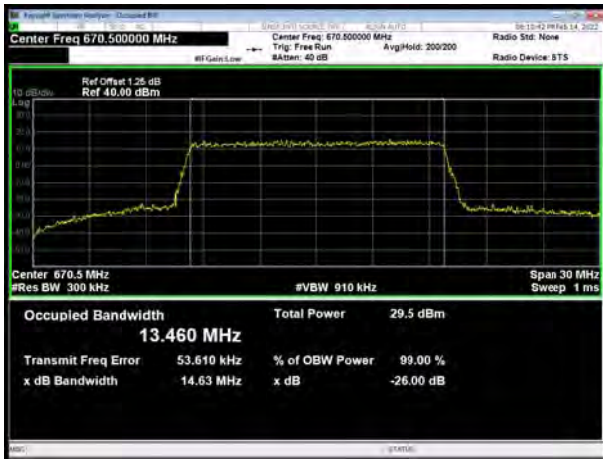


LTE Band 71 16QAM 10MHz CH-High

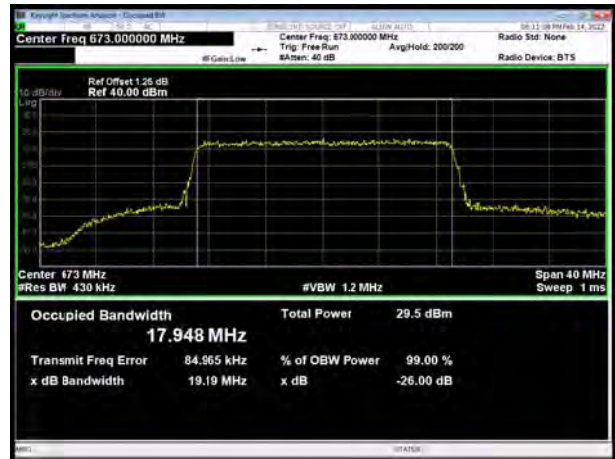




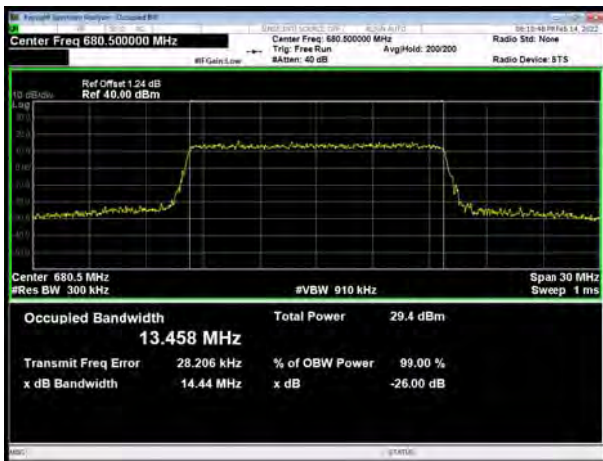
LTE Band 71 16QAM 15MHz CH-Low



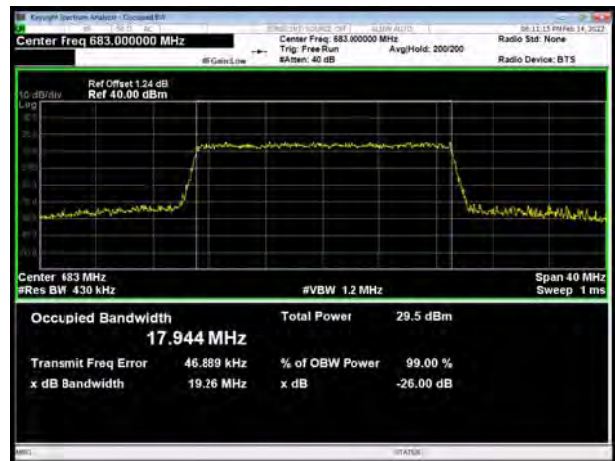
LTE Band 71 16QAM 20MHz CH-Low



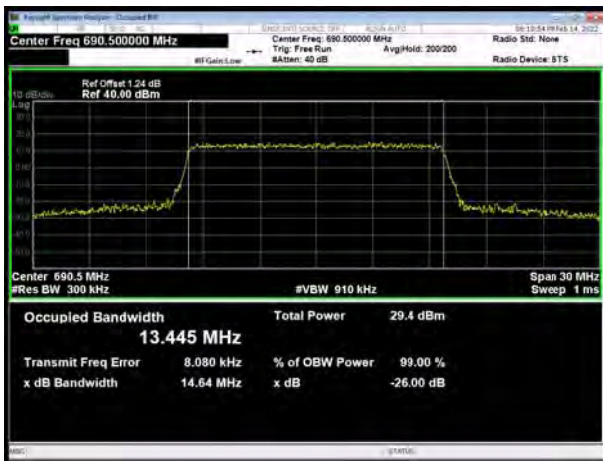
LTE Band 71 16QAM 15MHz CH-Middle



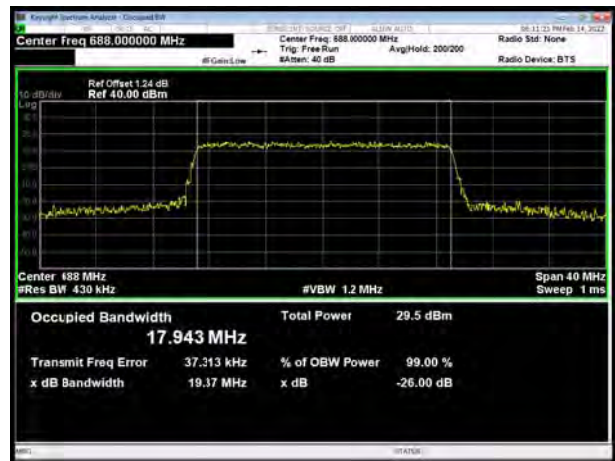
LTE Band 71 16QAM 20MHz CH-Middle



LTE Band 71 16QAM 15MHz CH-High

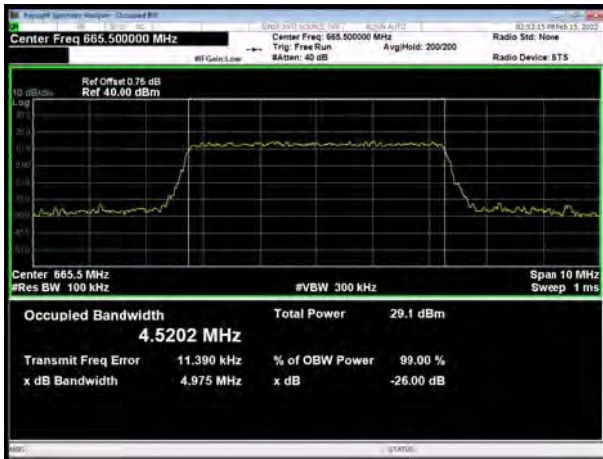


LTE Band 71 16QAM 20MHz CH-High

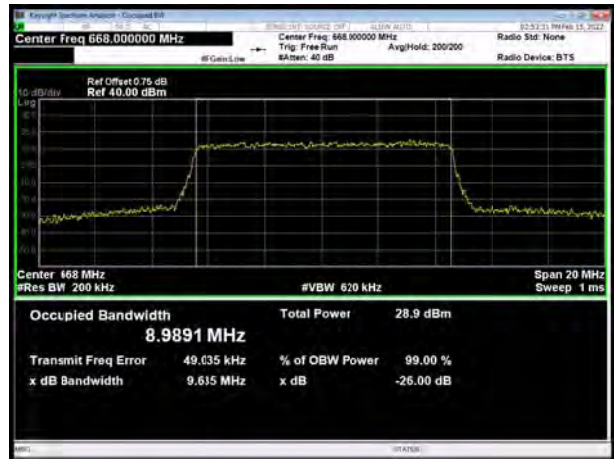




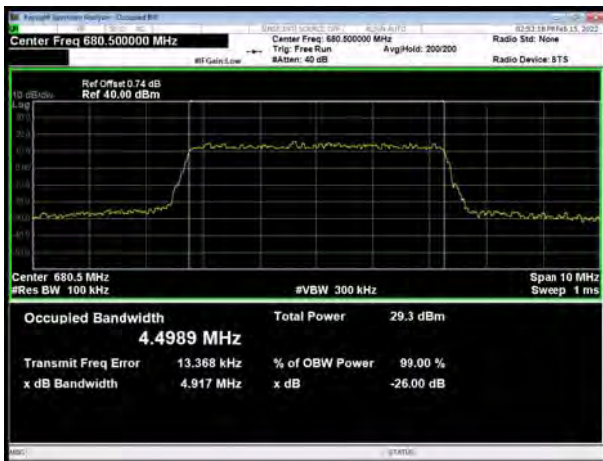
LTE Band 71 64QAM 5MHz CH-Low



LTE Band 71 64QAM 10MHz CH-Low



LTE Band 71 64QAM 5MHz CH-Middle



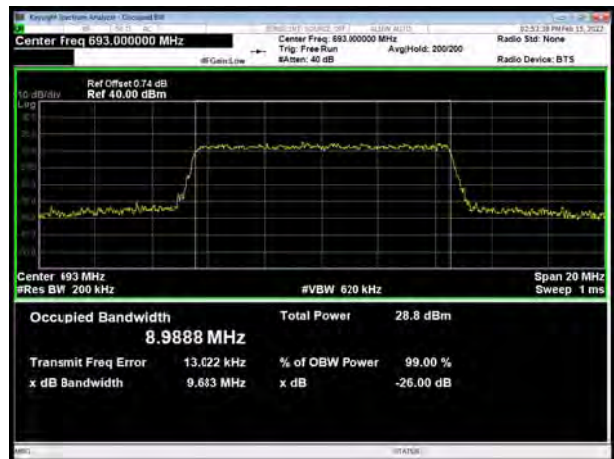
LTE Band 71 64QAM 10MHz CH-Middle



LTE Band 71 64QAM 5MHz CH-High



LTE Band 71 64QAM 10MHz CH-High

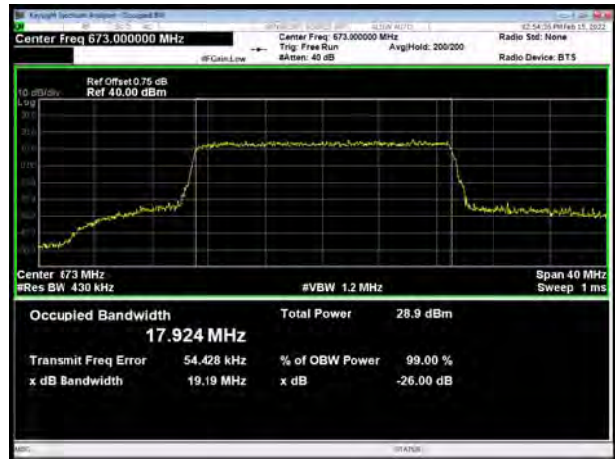




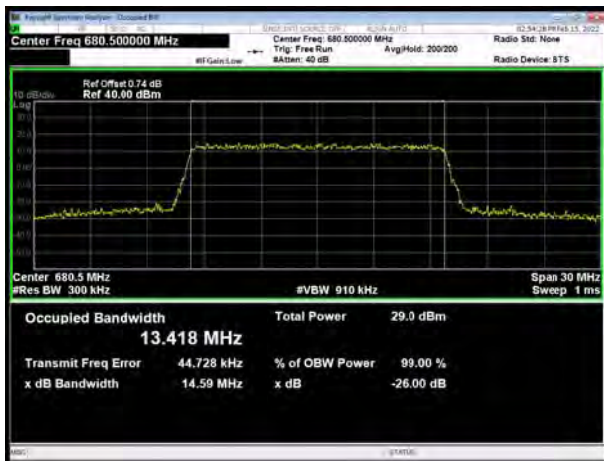
LTE Band 71 64QAM 15MHz CH-Low



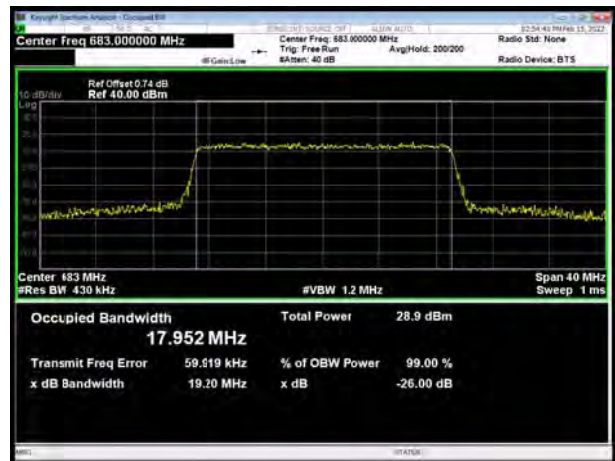
LTE Band 71 64QAM 20MHz CH-Low



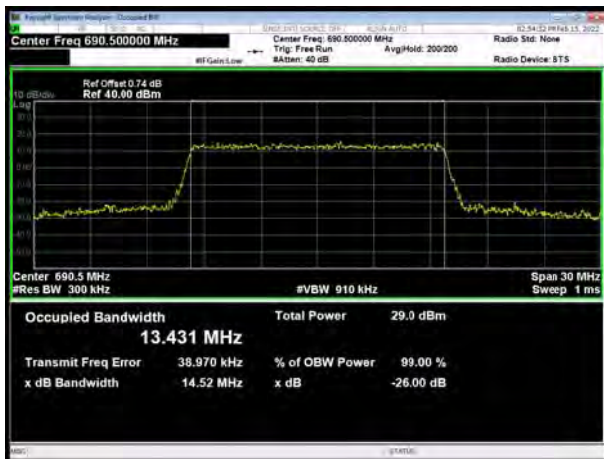
LTE Band 71 64QAM 15MHz CH-Middle



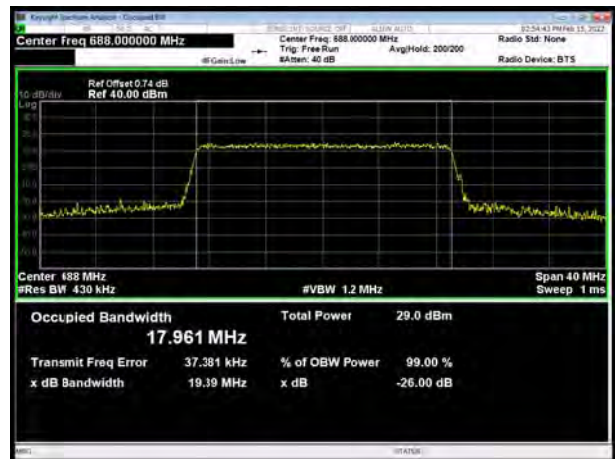
LTE Band 71 64QAM 20MHz CH-Middle



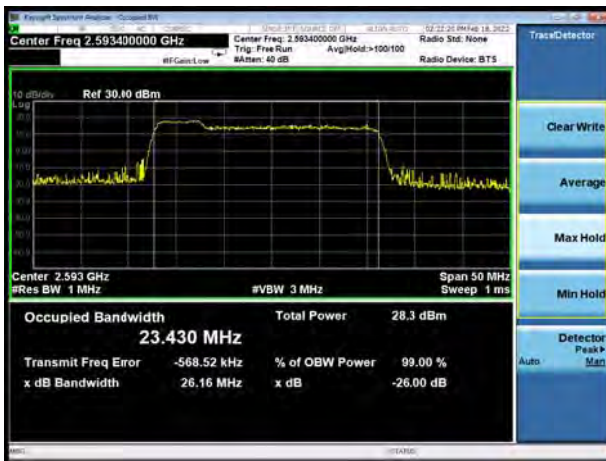
LTE Band 71 64QAM 15MHz CH-High



LTE Band 71 64QAM 20MHz CH-High



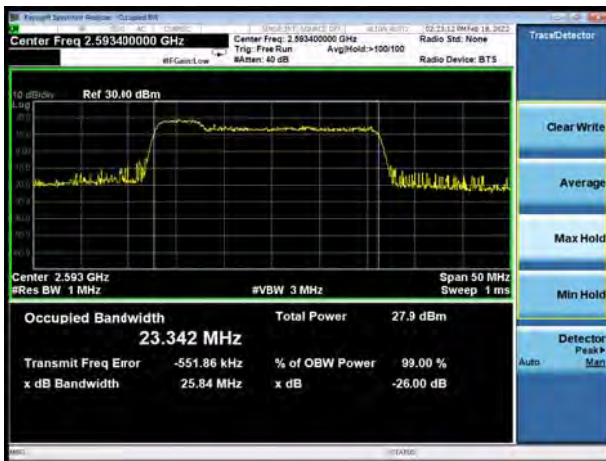
CA_41C QPSK 5MHz +20MHz



CA_41C QPSK 20MHz +5MHz



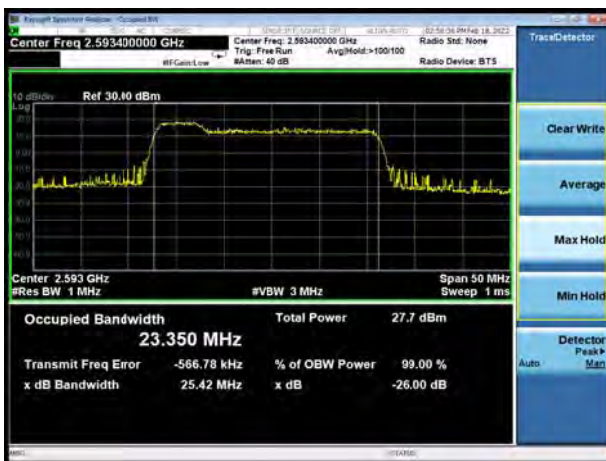
CA_41C 16QAM 5MHz +20MHz



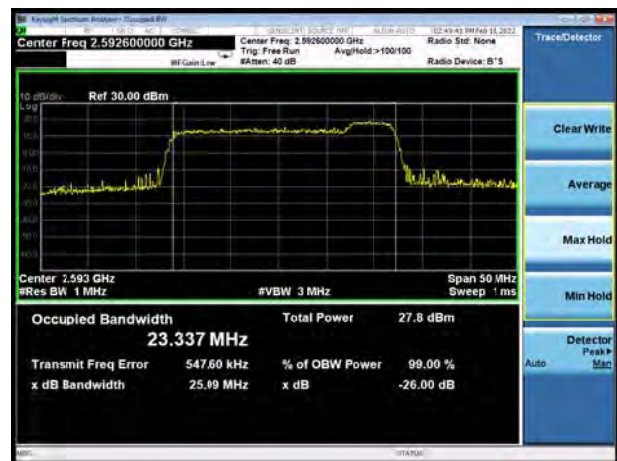
CA_41C 16QAM 20MHz +5MHz



CA_41C 64QAM 5MHz +20MHz



CA_41C 64QAM 20MHz +5MHz





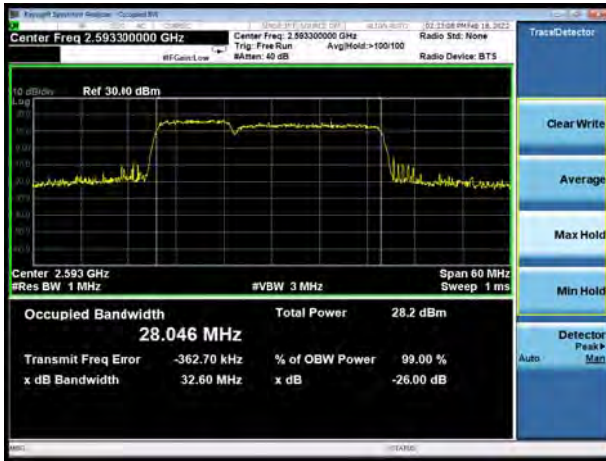
CA_41C QPSK 10MHz +20MHz



CA_41C QPSK 20MHz +10MHz



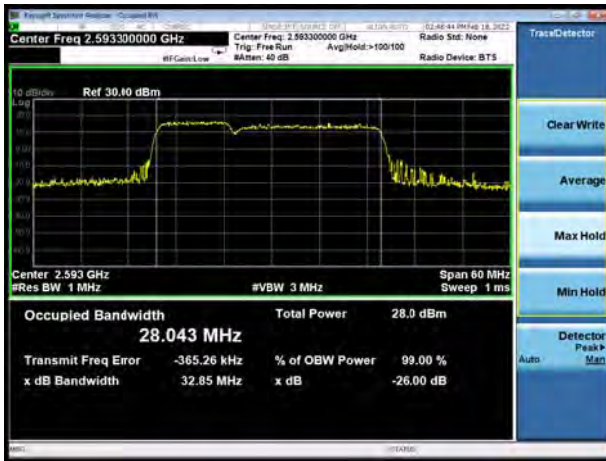
CA_41C 16QAM 10MHz +20MHz



CA_41C 16QAM 20MHz +10MHz



CA_41C 64QAM 10MHz +20MHz

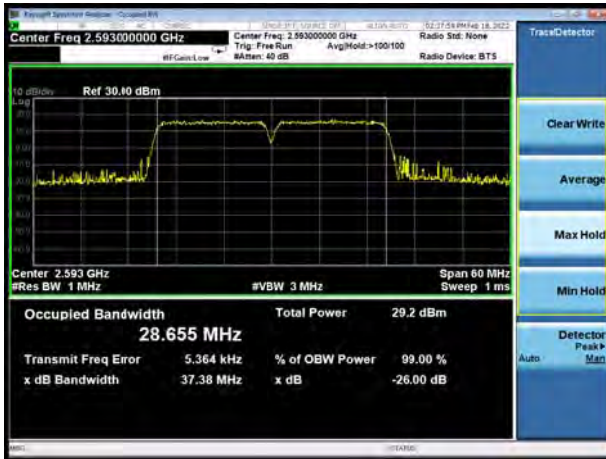


CA_41C 64QAM 20MHz +10MHz

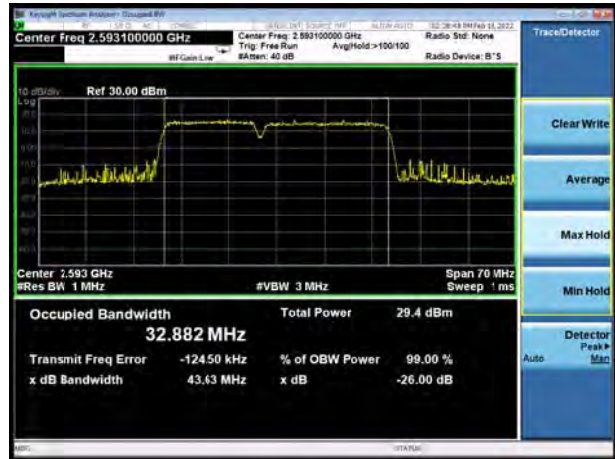




CA_41C QPSK 15MHz +15MHz



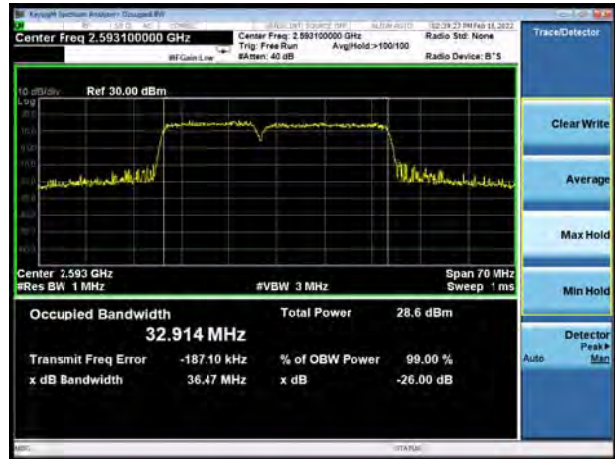
CA_41C QPSK 15MHz +20MHz



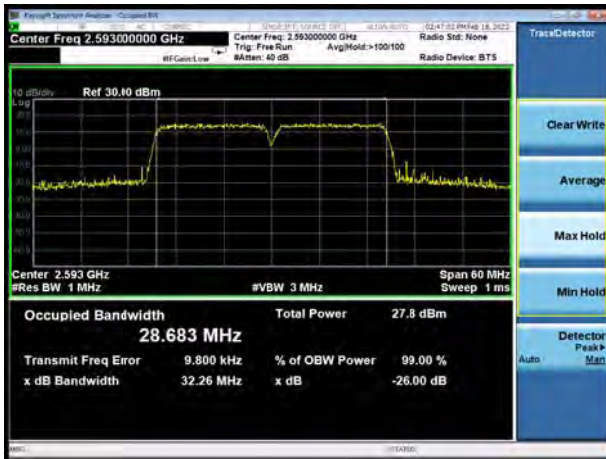
CA_41C 16QAM 15MHz +15MHz



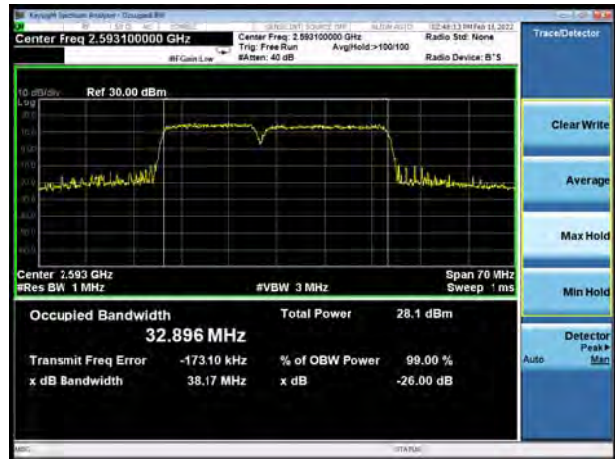
CA_41C 16QAM 15MHz +20MHz



CA_41C 64QAM 15MHz +15MHz

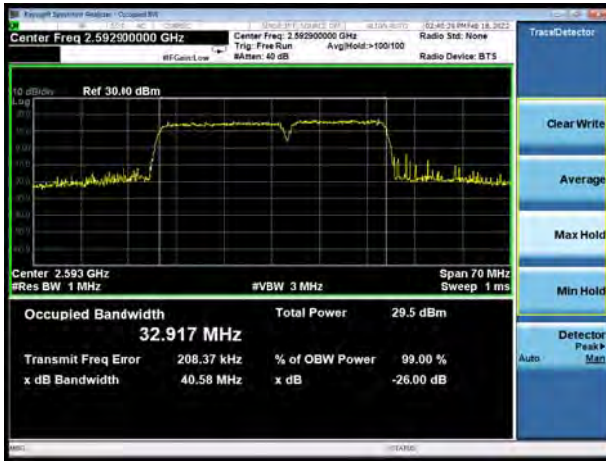


CA_41C 64QAM 15MHz +20MHz





CA_41C QPSK 20MHz +15MHz



CA_41C QPSK 20MHz +20MHz



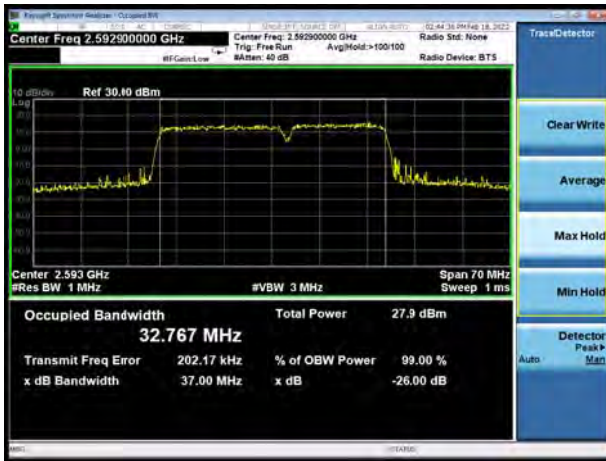
CA_41C 16QAM 20MHz +15MHz



CA_41C QPSK 20MHz +20MHz

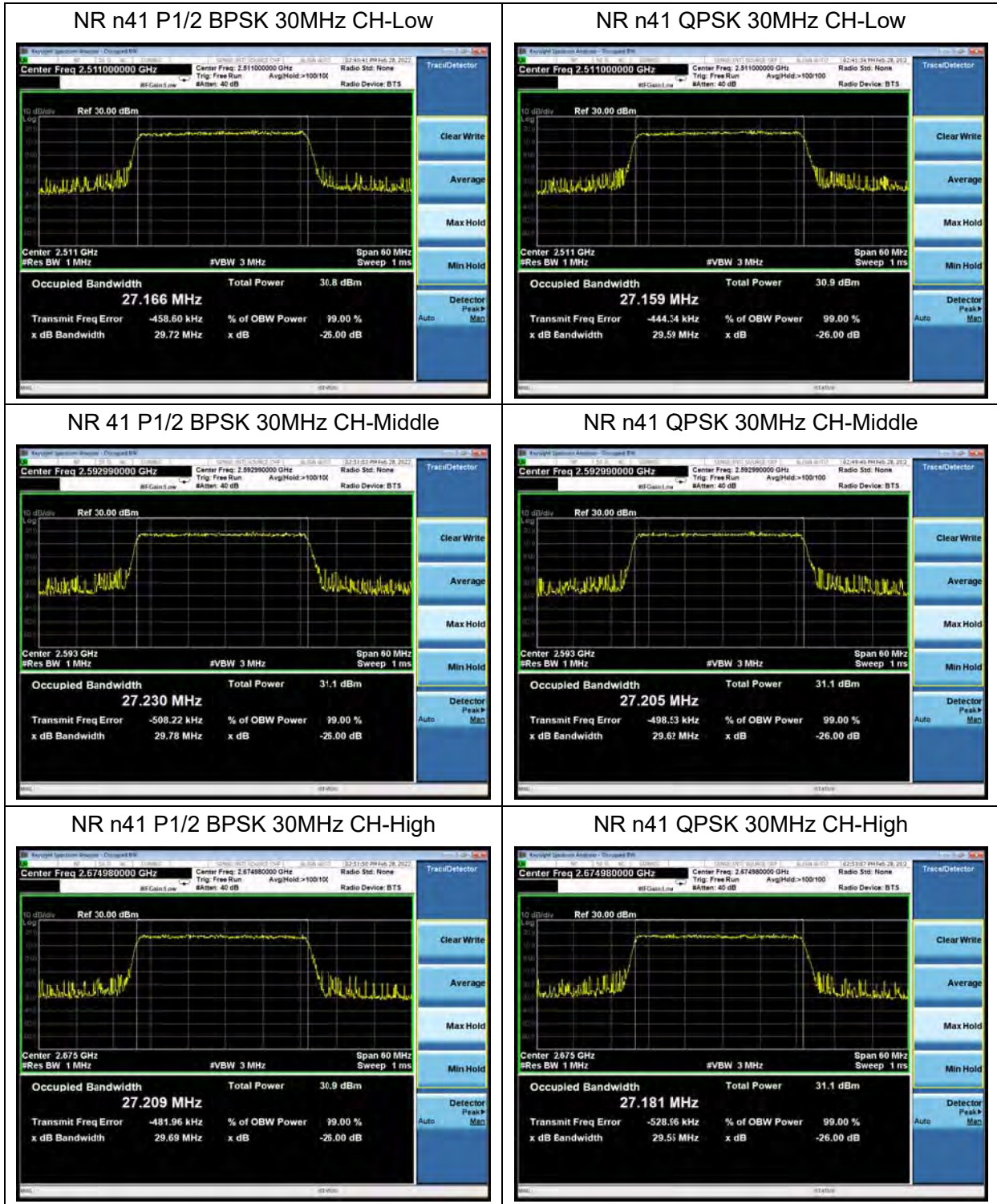


CA_41C 64QAM 20MHz +15MHz



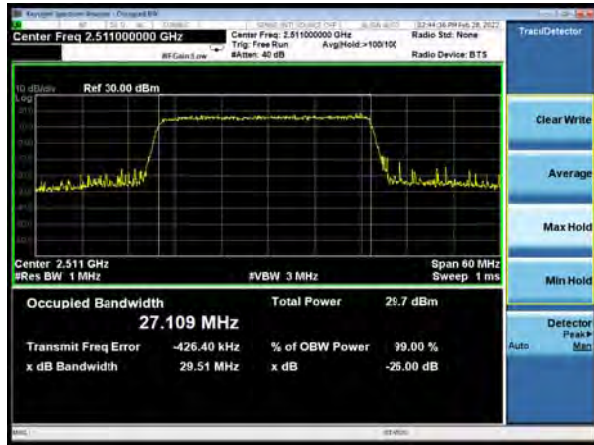
CA_41C QPSK 20MHz +20MHz



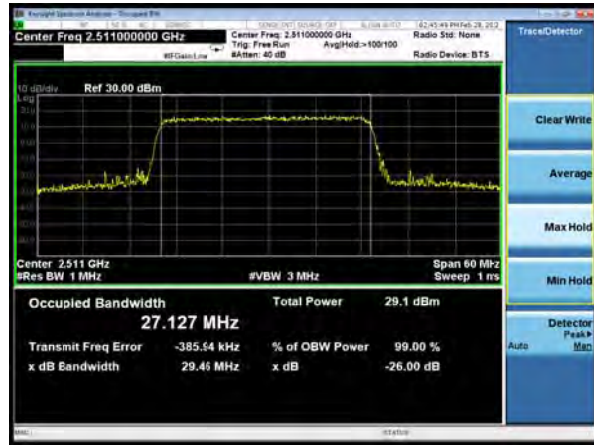




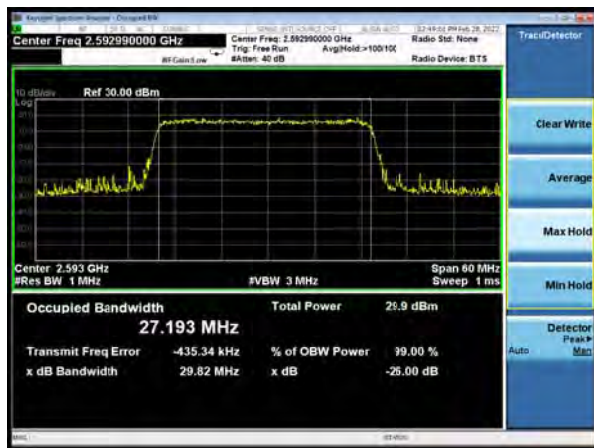
NR n41 16QAM 30MHz CH-Low



NR n41 64QAM 30MHz CH-Low



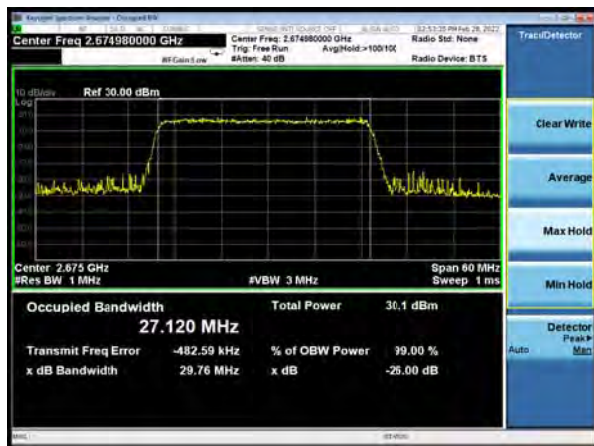
NR n41 16QAM 30MHz CH-Middle



NR n41 64QAM 30MHz CH-Middle



NR n41 16QAM 30MHz CH-High



NR n41 64QAM 30MHz CH-High



NR n41 256QAM 30MHz CH-Low



NR n41 256QAM 30MHz CH-Middle

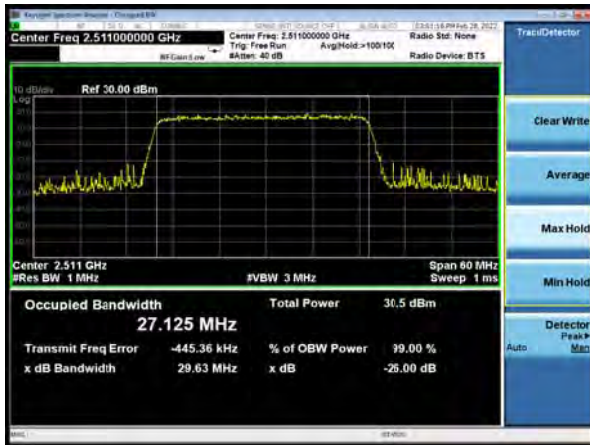


NR n41 256QAM 30MHz CH-High

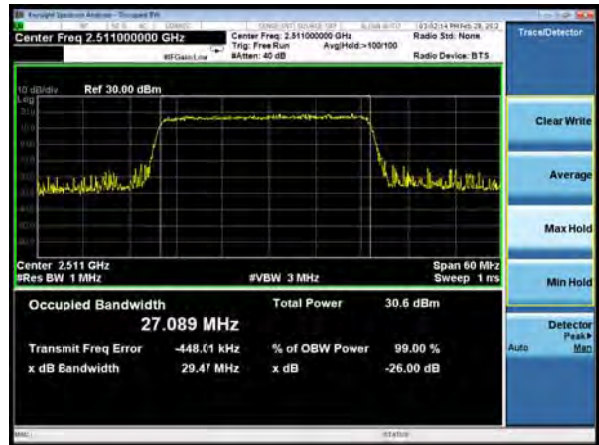




DC_66A_n41A P1/2 BPSK 30MHz CH-Low



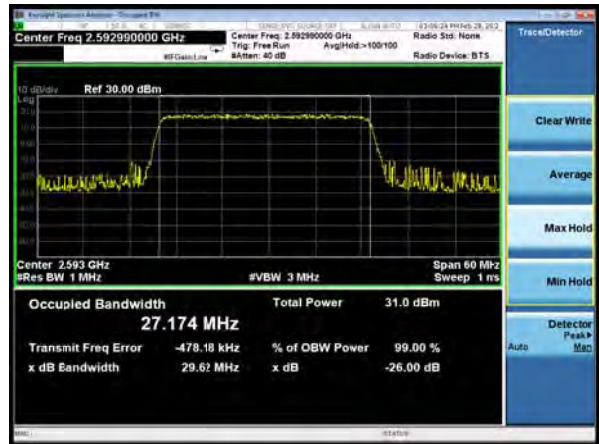
DC_66A_n41A QPSK 30MHz CH-Low



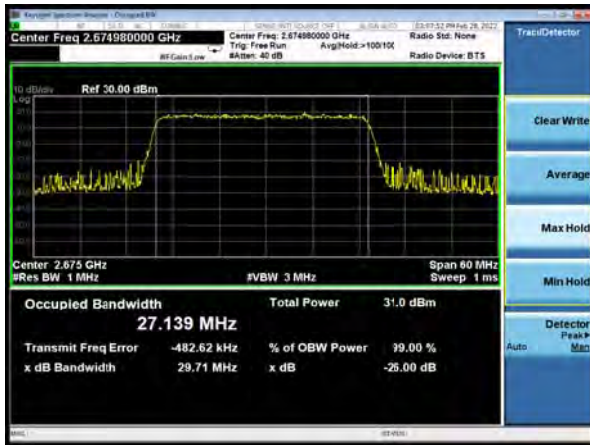
DC_66A_n41A P1/2 BPSK 30MHz CH-Middle



DC_66A_n41A QPSK 30MHz CH-Middle



DC_66A_n41A P1/2 BPSK 30MHz CH-High



DC_66A_n41A QPSK 30MHz CH-High

