



RF TEST REPORT

Applicant Xiaomi Communications Co., Ltd.
FCC ID 2AFZZ119VL
Product Mobile Phone
Brand Redmi
Model 21121119VL
Report No. R2109A0821-R3V1
Issue Date November 15, 2021

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2020)/ FCC CFR47 Part 27C (2020)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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TABLE OF CONTENT

1	Test Laboratory	5
1.1	Notes of the Test Report	5
1.2.	Test facility	5
1.3	Testing Location	5
2	General Description of Equipment under Test	6
2.1	Applicant and Manufacturer Information	6
2.2	General information	6
3	Applied Standards	8
4	Test Configuration	9
5	Test Case Results	11
5.1	RF Power Output and Effective Isotropic Radiated Power	11
5.2	Occupied Bandwidth	28
5.3	Band Edge Compliance	73
5.4	Peak-to-Average Power Ratio (PAPR)	124
5.5	Frequency Stability	132
5.6	Spurious Emissions at Antenna Terminals	146
5.7	Radiates Spurious Emission	167
6	Main Test Instruments	190
ANNEX A: The EUT Appearance		191
ANNEX B: Test Setup Photos		192



Version	Revision description	Issue Date
Rev.0	Initial issue of report.	November 8, 2021
Rev.1	Update Extreme Temperature	November 15, 2021
Note: This revised report (Report No. R2109A0821-R3V1) supersedes and replaces the previously issued report (Report No. R2109A0821-R3). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Isotropic Radiated Power	2.1046 /27.50(d)(4) /27.50(h)(2)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	27.53(h) /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(m)	PASS
7	Radiates Spurious Emission	2.1053 /27.53(h) /27.53(m)	PASS
Date of Testing: October 15, 2021~ November 8, 2021			
Date of Sample Received: September 30, 2021			
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.			

The report only changed the product model. This report only verified Radiates Spurious Emission (Low Antenna CA_7C 15M+15M), and it did not deteriorate, so it was not recorded in the report. All test values are repeated with the original report (Report No.: R2109A0819-R3V1)

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
City: Shanghai
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2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	Xiaomi Communications Co., Ltd.
Applicant address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer	Xiaomi Communications Co., Ltd.
Manufacturer address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.2 General information

EUT Description			
Model	21121119VL		
IMEI	Original (21121119SG)	IMEI 1: 860406050010980 IMEI 2: 860406050010998	
	Variant (21121119VL)	IMEI 1: 862440050025027 IMEI 2: 862440050025035	
Hardware Version	P2		
Software Version	MIUI12.5		
Antenna Type	PIFA Antenna		
Antenna Gain	Band	Low Antenna	Upper Antenna
	WCDMA BandIV; LTE Band 4;	-0.8 dBi	-1.4 dBi
	LTE Band 7;	-1.6 dBi	-1.7 dBi
	LTE Band 38/41;	0 dBi	-1.6 dBi
Test Mode(s)	WCDMA Band IV; LTE Band 4/7/38/41/CA_7C/CA_38C/CA_41C		
Test Modulation	(WCDMA) BPSK, QPSK, 16QAM; (LTE)QPSK, 16QAM, 64QAM;		
HSDPA UE Category	24		
HSUPA UE Category	7		
LTE Category	7		
Maximum E.I.R.P./ E.R.P.	WCDMA Band IV	23.01 dBm	
	LTE Band 4	23.52 dBm	
	LTE Band 7	22.19 dBm	
	LTE Band 38	24.35 dBm	
	LTE Band 41	24.33 dBm	
Rated Power Supply Voltage	3.87V		
Operating Voltage	Minimum:3.60V Maximum: 4.45V		



Operating Temperature	Lowest: -10°C Highest: +60°C		
Extreme 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 7	2500 ~ 2570	2620 ~ 2690
	LTE Band 38	2570 ~ 2620	2570 ~ 2620
	LTE Band 41	2535~ 2655	2535~ 2655
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.			



3 Applied Standards

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

Test standards:

FCC CFR47 Part 27C (2020)

FCC CFR47 Part 2 (2020)

Reference standard:

ANSI C63.26 (2015)

KDB 971168 D01 Power Meas License Digital Systems v03r01

4 Test Configuration

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

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

Subsequently, only the worst case emissions are reported.

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

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

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

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

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

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	O
	LTE 7	-	-	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 41	-	-	O	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 4	O	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 41	-	-	O	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 4	O	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 7	-	-	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 38	-	-	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 41	-	-	O	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 4	O	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 41	-	-	O	O	O	O	O	O	O	-	-	O	O	O	O
Frequency Stability	LTE 4	O	O	O	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 7	-	-	O	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 38	-	-	O	O	O	O	O	O	O	O	-	-	-	O	-
	LTE 41	-	-	O	O	O	O	O	O	O	O	-	-	-	O	-
Spurious Emissions at Antenna Terminals	LTE 4	O	O	O	O	O	O	O	-	-	O	-	-	O	O	O
	LTE 7	-	-	O	O	O	O	O	-	-	O	-	-	O	O	O
	LTE 38	-	-	O	O	O	O	O	-	-	O	-	-	O	O	O
	LTE 41	-	-	O	O	O	O	O	-	-	O	-	-	O	O	O
Radiates Spurious Emission	LTE 4	O	-	O	-	-	O	O	-	-	O	-	-	-	O	-
	LTE 7	-	-	O	-	-	O	O	-	-	O	-	-	-	O	-
	LTE 38	-	-	O	-	-	O	O	-	-	O	-	-	-	O	-
	LTE 41	-	-	O	-	-	O	O	-	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.															

5 Test Case Results

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

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

Methods of Measurement

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

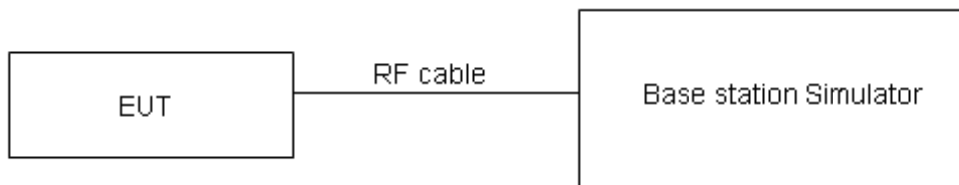
ERP can then be calculated as follows:

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

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

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

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

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

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

Part 27.50(d)(4)Limit	$\leq 1 \text{ W}$ (30 dBm)
Part 27.50(h)(2) Limit	$\leq 2 \text{ W}$ (33 dBm)

Measurement Uncertainty

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

Test Results

WCDMA Band IV		Maximum Output Power (dBm)			EIRP (dBm) (Low Antenna)			EIRP (dBm) (Upper Antenna)		
		Channel 1312	Channel 1413	Channel 1513	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)	1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)
RMC		23.69	23.66	23.71	22.89	22.86	22.91	22.29	22.26	22.31
AMR		23.81	23.78	23.77	23.01	22.98	22.97	22.41	22.38	22.37
HSDPA	Subtest 1	22.75	22.58	22.85	21.95	21.78	22.05	21.35	21.18	21.45
	Subtest 2	22.69	22.82	22.59	21.89	22.02	21.79	21.29	21.42	21.19
	Subtest 3	22.09	22.02	22.05	21.29	21.22	21.25	20.69	20.62	20.65
	Subtest 4	22.27	22.28	22.29	21.47	21.48	21.49	20.87	20.88	20.89
HSUPA	Subtest 1	21.73	21.54	21.81	20.93	20.74	21.01	20.33	20.14	20.41
	Subtest 2	21.29	21.28	21.07	20.49	20.48	20.27	19.89	19.88	19.67
	Subtest 3	22.29	22.26	22.33	21.49	21.46	21.53	20.89	20.86	20.93
	Subtest 4	20.65	20.50	20.55	19.85	19.70	19.75	19.25	19.10	19.15
	Subtest 5	22.31	22.22	22.23	21.51	21.42	21.43	20.91	20.82	20.83
DC-HSDPA	Subtest 1	22.57	22.66	22.65	21.77	21.86	21.85	21.17	21.26	21.25
	Subtest 2	22.79	22.76	22.71	21.99	21.96	21.91	21.39	21.36	21.31
	Subtest 3	22.29	22.26	22.31	21.49	21.46	21.51	20.89	20.86	20.91
	Subtest 4	22.25	22.06	22.13	21.45	21.26	21.33	20.85	20.66	20.73
HSPA+		16QAM	21.03	21.16	21.07	20.23	20.36	20.27	19.63	19.76

LTE Band 4				Maximum Output Power(dBm)			EIRP (dBm) (Low Antenna)			EIRP (dBm) (Upper Antenna)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				19957/ 1710.7	20175/ 1732.5	20393/ 1754.3	19957/ 1710.7	20175/ 1732.5	20393/ 1754.3	19957/ 1710.7	20175/ 1732.5	20393/ 1754.3
1.4MHz	QPSK	1	0	24.16	24.11	24.21	23.36	23.31	23.41	22.76	22.71	22.81
		1	2	24.23	24.18	24.20	23.43	23.38	23.40	22.83	22.78	22.80
		1	5	24.04	24.05	24.03	23.24	23.25	23.23	22.64	22.65	22.63
		3	0	24.20	24.32	24.17	23.40	23.52	23.37	22.80	22.92	22.77
		3	2	24.09	24.32	24.17	23.29	23.52	23.37	22.69	22.92	22.77
		3	3	24.10	24.10	24.10	23.30	23.30	23.30	22.70	22.70	22.70
		6	0	23.22	23.22	23.18	22.42	22.42	22.38	21.82	21.82	21.78
	16QAM	1	0	23.75	23.32	23.23	22.95	22.52	22.43	22.35	21.92	21.83
		1	2	23.73	23.68	23.68	22.93	22.88	22.88	22.33	22.28	22.28
		1	5	23.44	23.39	23.40	22.64	22.59	22.60	22.04	21.99	22.00



		3	0	23.10	23.07	23.13	22.30	22.27	22.33	21.70	21.67	21.73
		3	2	23.34	23.28	23.30	22.54	22.48	22.50	21.94	21.88	21.90
		3	3	22.99	23.06	23.04	22.19	22.26	22.24	21.59	21.66	21.64
		6	0	22.15	22.19	22.21	21.35	21.39	21.41	20.75	20.79	20.81
	64QAM	1	0	22.24	22.19	22.21	21.44	21.39	21.41	20.84	20.79	20.81
		1	2	22.55	22.62	22.57	21.75	21.82	21.77	21.15	21.22	21.17
		1	5	22.46	22.55	22.46	21.66	21.75	21.66	21.06	21.15	21.06
		3	0	22.10	22.05	22.11	21.30	21.25	21.31	20.70	20.65	20.71
		3	2	22.29	22.34	22.29	21.49	21.54	21.49	20.89	20.94	20.89
		3	3	22.03	22.03	22.03	21.23	21.23	21.23	20.63	20.63	20.63
		6	0	21.13	21.18	21.17	20.33	20.38	20.37	19.73	19.78	19.77
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				19965/ 1711.5	20175/ 1732.5	20385/ 1753.5	19965/ 1711.5	20175/ 1732.5	20385/ 1753.5	19965/ 1711.5	20175/ 1732.5	20385/ 1753.5
3MHz	QPSK	1	0	24.18	24.15	24.24	23.38	23.35	23.44	22.78	22.75	22.84
		1	7	24.21	24.21	24.24	23.41	23.41	23.44	22.81	22.81	22.84
		1	14	24.07	24.10	24.07	23.27	23.30	23.27	22.67	22.70	22.67
		8	0	23.30	23.44	23.30	22.50	22.64	22.50	21.90	22.04	21.90
		8	4	23.21	23.42	23.29	22.41	22.62	22.49	21.81	22.02	21.89
		8	7	23.20	23.21	23.20	22.40	22.41	22.40	21.80	21.81	21.80
		15	0	23.22	23.26	23.21	22.42	22.46	22.41	21.82	21.86	21.81
	16QAM	1	0	23.78	23.34	23.26	22.98	22.54	22.46	22.38	21.94	21.86
		1	7	23.76	23.68	23.72	22.96	22.88	22.92	22.36	22.28	22.32
		1	14	23.46	23.43	23.43	22.66	22.63	22.63	22.06	22.03	22.03
		8	0	22.21	22.20	22.25	21.41	21.40	21.45	20.81	20.80	20.85
		8	4	22.45	22.41	22.42	21.65	21.61	21.62	21.05	21.01	21.02
		8	7	22.09	22.18	22.17	21.29	21.38	21.37	20.69	20.78	20.77
		15	0	22.18	22.23	22.24	21.38	21.43	21.44	20.78	20.83	20.84
	64QAM	1	0	22.27	22.21	22.24	21.47	21.41	21.44	20.87	20.81	20.84
		1	7	22.58	22.62	22.59	21.78	21.82	21.79	21.18	21.22	21.19
		1	14	22.48	22.54	22.49	21.68	21.74	21.69	21.08	21.14	21.09
		8	0	21.21	21.18	21.23	20.41	20.38	20.43	19.81	19.78	19.83
		8	4	21.40	21.47	21.41	20.60	20.67	20.61	20.00	20.07	20.01
		8	7	21.13	21.15	21.16	20.33	20.35	20.36	19.73	19.75	19.76
		15	0	21.16	21.22	21.20	20.36	20.42	20.40	19.76	19.82	19.80



BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				19975/ 1712.5	20175/ 1732.5	20375/ 1752.5	19975/1 712.5	20175/ 1732.5	20375/ 1752.5	19975/ 1712.5	20175/ 1732.5	20375/ 1752.5
5MHz	QPSK	1	0	24.15	24.13	24.20	23.35	23.33	23.40	22.75	22.73	22.80
		1	13	24.19	24.17	24.21	23.39	23.37	23.41	22.79	22.77	22.81
		1	24	24.04	24.05	24.03	23.24	23.25	23.23	22.64	22.65	22.63
		12	0	23.27	23.39	23.26	22.47	22.59	22.46	21.87	21.99	21.86
		12	6	23.19	23.38	23.24	22.39	22.58	22.44	21.79	21.98	21.84
		12	13	23.18	23.19	23.16	22.38	22.39	22.36	21.78	21.79	21.76
		25	0	23.22	23.25	23.19	22.42	22.45	22.39	21.82	21.85	21.79
	16QAM	1	0	23.75	23.30	23.23	22.95	22.50	22.43	22.35	21.90	21.83
		1	13	23.73	23.66	23.69	22.93	22.86	22.89	22.33	22.26	22.29
		1	24	23.43	23.41	23.39	22.63	22.61	22.59	22.03	22.01	21.99
		12	0	22.19	22.16	22.22	21.39	21.36	21.42	20.79	20.76	20.82
		12	6	22.42	22.36	22.38	21.62	21.56	21.58	21.02	20.96	20.98
		12	13	22.06	22.13	22.13	21.26	21.33	21.33	20.66	20.73	20.73
		25	0	22.16	22.19	22.19	21.36	21.39	21.39	20.76	20.79	20.79
	64QAM	1	0	22.24	22.21	22.21	21.44	21.41	21.41	20.84	20.81	20.81
		1	13	22.55	22.64	22.56	21.75	21.84	21.76	21.15	21.24	21.16
		1	24	22.49	22.52	22.45	21.69	21.72	21.65	21.09	21.12	21.05
		12	0	21.19	21.14	21.24	20.39	20.34	20.44	19.79	19.74	19.84
		12	6	21.37	21.42	21.37	20.57	20.62	20.57	19.97	20.02	19.97
		12	13	21.10	21.10	21.12	20.30	20.30	20.32	19.70	19.70	19.72
		25	0	21.14	21.18	21.15	20.34	20.38	20.35	19.74	19.78	19.75
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20000/ 1715	20175/ 1732.5	20350/ 1750	20000/ 1715	20175/ 1732.5	20350/ 1750	20000/ 1715	20175/ 1732.5	20350/ 1750
10MHz	QPSK	1	0	24.17	24.14	24.23	23.37	23.34	23.43	22.77	22.74	22.83
		1	25	24.22	24.22	24.25	23.42	23.42	23.45	22.82	22.82	22.85
		1	49	24.06	24.09	24.06	23.26	23.29	23.26	22.66	22.69	22.66
		25	0	23.30	23.44	23.30	22.50	22.64	22.50	21.90	22.04	21.90
		25	13	23.22	23.43	23.28	22.42	22.63	22.48	21.82	22.03	21.88
		25	25	23.20	23.23	23.21	22.40	22.43	22.41	21.80	21.83	21.81
		50	0	23.26	23.27	23.23	22.46	22.47	22.43	21.86	21.87	21.83
	16QAM	1	0	23.77	23.33	23.25	22.97	22.53	22.45	22.37	21.93	21.85
		1	25	23.76	23.70	23.72	22.96	22.90	22.92	22.36	22.30	22.32
		1	49	23.46	23.43	23.42	22.66	22.63	22.62	22.06	22.03	22.02



		25	0	22.22	22.21	22.26	21.42	21.41	21.46	20.82	20.81	20.86
		25	13	22.44	22.40	22.41	21.64	21.60	21.61	21.04	21.00	21.01
		25	25	22.09	22.18	22.17	21.29	21.38	21.37	20.69	20.78	20.77
		50	0	22.19	22.24	22.23	21.39	21.44	21.43	20.79	20.84	20.83
	64QAM	1	0	22.26	22.20	22.23	21.46	21.40	21.43	20.86	20.80	20.83
		1	25	22.58	22.64	22.59	21.78	21.84	21.79	21.18	21.24	21.19
		1	49	22.48	22.54	22.48	21.68	21.74	21.68	21.08	21.14	21.08
		25	0	21.22	21.19	21.24	20.42	20.39	20.44	19.82	19.79	19.84
		25	13	21.39	21.46	21.40	20.59	20.66	20.60	19.99	20.06	20.00
		25	25	21.13	21.15	21.16	20.33	20.35	20.36	19.73	19.75	19.76
		50	0	21.17	21.23	21.19	20.37	20.43	20.39	19.77	19.83	19.79
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20025/ 1717.5	20175/ 1732.5	20325/ 1747.5	20025/ 1717.5	20175/ 1732.5	20325/ 1747.5	20025/ 1717.5	20175/ 1732.5	20325/ 1747.5
15MHz	QPSK	1	0	24.16	24.10	24.21	23.36	23.30	23.41	22.76	22.70	22.81
		1	13	24.20	24.21	24.22	23.40	23.41	23.42	22.80	22.81	22.82
		1	24	24.03	24.04	24.02	23.23	23.24	23.22	22.63	22.64	22.62
		12	0	23.28	23.40	23.27	22.48	22.60	22.47	21.88	22.00	21.87
		12	6	23.19	23.38	23.24	22.39	22.58	22.44	21.79	21.98	21.84
		12	13	23.17	23.20	23.17	22.37	22.40	22.37	21.77	21.80	21.77
		25	0	23.24	23.23	23.18	22.44	22.43	22.38	21.84	21.83	21.78
	16QAM	1	0	23.72	23.31	23.23	22.92	22.51	22.43	22.32	21.91	21.83
		1	13	23.74	23.67	23.70	22.94	22.87	22.90	22.34	22.27	22.30
		1	24	23.43	23.39	23.39	22.63	22.59	22.59	22.03	21.99	21.99
		12	0	22.19	22.19	22.23	21.39	21.39	21.43	20.79	20.79	20.83
		12	6	22.41	22.35	22.37	21.61	21.55	21.57	21.01	20.95	20.97
		12	13	22.07	22.14	22.14	21.27	21.34	21.34	20.67	20.74	20.74
		25	0	22.16	22.19	22.19	21.36	21.39	21.39	20.76	20.79	20.79
	64QAM	1	0	22.21	22.18	22.21	21.41	21.38	21.41	20.81	20.78	20.81
		1	13	22.56	22.61	22.57	21.76	21.81	21.77	21.16	21.21	21.17
		1	24	22.49	22.53	22.49	21.69	21.73	21.69	21.09	21.13	21.09
		12	0	21.21	21.21	21.25	20.41	20.41	20.45	19.81	19.81	19.85
		12	6	21.37	21.43	21.39	20.57	20.63	20.59	19.97	20.03	19.99
		12	13	21.11	21.11	21.13	20.31	20.31	20.33	19.71	19.71	19.73
		25	0	21.14	21.18	21.15	20.34	20.38	20.35	19.74	19.78	19.75



BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20050/ 1720	20175/ 1732.5	20300/ 1745	20050/ 1720	20175/ 1732.5	20300/ 1745	20050/ 1720	20175/ 1732.5	20300/ 1745
20MHz	QPSK	1	0	24.13	24.06	24.18	23.33	23.26	23.38	22.73	22.66	22.78
		1	25	24.29	24.27	24.30	23.49	23.47	23.50	22.89	22.87	22.90
		1	49	24.01	24.03	23.99	23.21	23.23	23.19	22.61	22.63	22.59
		25	0	23.25	23.35	23.23	22.45	22.55	22.43	21.85	21.95	21.83
		25	13	23.17	23.34	23.21	22.37	22.54	22.41	21.77	21.94	21.81
		25	25	23.14	23.15	23.13	22.34	22.35	22.33	21.74	21.75	21.73
		50	0	23.21	23.18	23.14	22.41	22.38	22.34	21.81	21.78	21.74
	16QAM	1	0	23.22	23.27	23.18	22.42	22.47	22.38	21.82	21.87	21.78
		1	25	23.70	23.65	23.66	22.90	22.85	22.86	22.30	22.25	22.26
		1	49	23.41	23.36	23.37	22.61	22.56	22.57	22.01	21.96	21.97
		25	0	22.16	22.15	22.20	21.36	21.35	21.40	20.76	20.75	20.80
		25	13	22.38	22.33	22.34	21.58	21.53	21.54	20.98	20.93	20.94
		25	25	22.04	22.09	22.10	21.24	21.29	21.30	20.64	20.69	20.70
		50	0	22.14	22.15	22.16	21.34	21.35	21.36	20.74	20.75	20.76
	64QAM	1	0	22.19	22.14	22.16	21.39	21.34	21.36	20.79	20.74	20.76
		1	25	22.52	22.59	22.53	21.72	21.79	21.73	21.12	21.19	21.13
		1	49	22.43	22.47	22.43	21.63	21.67	21.63	21.03	21.07	21.03
		25	0	21.16	21.13	21.18	20.36	20.33	20.38	19.76	19.73	19.78
		25	13	21.33	21.39	21.33	20.53	20.59	20.53	19.93	19.99	19.93
		25	25	21.08	21.06	21.09	20.28	20.26	20.29	19.68	19.66	19.69
		50	0	21.12	21.14	21.12	20.32	20.34	20.32	19.72	19.74	19.72

LTE Band 7				Maximum Output Power(dBm)			EIRP (dBm) (Low Antenna)			EIRP (dBm) (Upper Antenna)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20775/ 2502.5	21100/ 2535	21425/ 2567.5	20775/ 2502.5	21100/ 2535	21425/ 2567.5	20775/ 2502.5	21100/ 2535	21425/ 2567.5
5MHz	QPSK	1	0	23.45	23.61	23.54	21.85	22.01	21.94	21.75	21.91	21.84
		1	13	23.66	23.74	23.68	22.06	22.14	22.08	21.96	22.04	21.98
		1	24	23.62	23.68	23.47	22.02	22.08	21.87	21.92	21.98	21.77
		12	0	22.62	22.68	22.64	21.02	21.08	21.04	20.92	20.98	20.94
		12	6	22.70	22.71	22.69	21.10	21.11	21.09	21.00	21.01	20.99
		12	13	22.69	22.65	22.67	21.09	21.05	21.07	20.99	20.95	20.97
		25	0	22.60	22.78	22.65	21.00	21.18	21.05	20.90	21.08	20.95



	16QAM	1	0	22.83	22.63	22.71	21.23	21.03	21.11	21.13	20.93	21.01
		1	13	22.81	23.02	22.82	21.21	21.42	21.22	21.11	21.32	21.12
		1	24	22.72	22.74	22.70	21.12	21.14	21.10	21.02	21.04	21.00
		12	0	21.74	21.77	21.76	20.14	20.17	20.16	20.04	20.07	20.06
		12	6	21.72	21.74	21.71	20.12	20.14	20.11	20.02	20.04	20.01
		12	13	21.61	21.73	21.63	20.01	20.13	20.03	19.91	20.03	19.93
		25	0	21.60	21.71	21.61	20.00	20.11	20.01	19.90	20.01	19.91
	64QAM	1	0	21.65	21.60	21.62	20.05	20.00	20.02	19.95	19.90	19.92
		1	13	21.51	21.48	21.48	19.91	19.88	19.88	19.81	19.78	19.78
		1	24	21.62	21.56	21.59	20.02	19.96	19.99	19.92	19.86	19.89
		12	0	20.66	20.63	20.76	19.06	19.03	19.16	18.96	18.93	19.06
		12	6	20.53	20.49	20.54	18.93	18.89	18.94	18.83	18.79	18.84
		12	13	20.58	20.56	20.60	18.98	18.96	19.00	18.88	18.86	18.90
		25	0	20.66	20.64	20.67	19.06	19.04	19.07	18.96	18.94	18.97
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20800/ 2505	21100/ 2535	21400/ 2565	20800/ 2505	21100/ 2535	21400/ 2565	20800/ 2505	21100/ 2535	21400/ 2565
10MHz	QPSK	1	0	23.47	23.62	23.57	21.87	22.02	21.97	21.77	21.92	21.87
		1	25	23.69	23.79	23.72	22.09	22.19	22.12	21.99	22.09	22.02
		1	49	23.64	23.72	23.50	22.04	22.12	21.90	21.94	22.02	21.80
		25	0	22.65	22.73	22.68	21.05	21.13	21.08	20.95	21.03	20.98
		25	13	22.73	22.76	22.73	21.13	21.16	21.13	21.03	21.06	21.03
		25	25	22.71	22.69	22.72	21.11	21.09	21.12	21.01	20.99	21.02
		50	0	22.64	22.80	22.69	21.04	21.20	21.09	20.94	21.10	20.99
	16QAM	1	0	22.85	22.66	22.73	21.25	21.06	21.13	21.15	20.96	21.03
		1	25	22.84	23.06	22.85	21.24	21.46	21.25	21.14	21.36	21.15
		1	49	22.75	22.76	22.73	21.15	21.16	21.13	21.05	21.06	21.03
		25	0	21.77	21.82	21.80	20.17	20.22	20.20	20.07	20.12	20.10
		25	13	21.74	21.78	21.74	20.14	20.18	20.14	20.04	20.08	20.04
		25	25	21.64	21.78	21.67	20.04	20.18	20.07	19.94	20.08	19.97
		50	0	21.63	21.76	21.65	20.03	20.16	20.05	19.93	20.06	19.95
	64QAM	1	0	21.67	21.59	21.64	20.07	19.99	20.04	19.97	19.89	19.94
		1	25	21.54	21.48	21.51	19.94	19.88	19.91	19.84	19.78	19.81
		1	49	21.61	21.58	21.62	20.01	19.98	20.02	19.91	19.88	19.92
		25	0	20.69	20.68	20.76	19.09	19.08	19.16	18.99	18.98	19.06
		25	13	20.55	20.53	20.57	18.95	18.93	18.97	18.85	18.83	18.87
		25	25	20.61	20.61	20.64	19.01	19.01	19.04	18.91	18.91	18.94



		50	0	20.69	20.69	20.71	19.09	19.09	19.11	18.99	18.99	19.01
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20825/ 2507.5	21100/ 2535	21375/ 2562.5	20825/ 2507.5	21100/ 2535	21375/ 2562.5	20825/ 2507.5	21100/ 2535	21375/ 2562.5
15MHz	QPSK	1	0	23.46	23.58	23.55	21.86	21.98	21.95	21.76	21.88	21.85
		1	38	23.67	23.78	23.69	22.07	22.18	22.09	21.97	22.08	21.99
		1	74	23.61	23.67	23.46	22.01	22.07	21.86	21.91	21.97	21.76
		36	0	22.63	22.69	22.65	21.03	21.09	21.05	20.93	20.99	20.95
		36	18	22.70	22.71	22.69	21.10	21.11	21.09	21.00	21.01	20.99
		36	39	22.68	22.66	22.68	21.08	21.06	21.08	20.98	20.96	20.98
		75	0	22.62	22.76	22.64	21.02	21.16	21.04	20.92	21.06	20.94
	16QAM	1	0	22.80	22.64	22.71	21.20	21.04	21.11	21.10	20.94	21.01
		1	38	22.82	23.03	22.83	21.22	21.43	21.23	21.12	21.33	21.13
		1	74	22.72	22.72	22.70	21.12	21.12	21.10	21.02	21.02	21.00
		36	0	21.74	21.80	21.77	20.14	20.20	20.17	20.04	20.10	20.07
		36	18	21.71	21.73	21.70	20.11	20.13	20.10	20.01	20.03	20.00
		36	39	21.62	21.74	21.64	20.02	20.14	20.04	19.92	20.04	19.94
		75	0	21.60	21.71	21.61	20.00	20.11	20.01	19.90	20.01	19.91
	64QAM	1	0	21.62	21.57	21.62	20.02	19.97	20.02	19.92	19.87	19.92
		1	38	21.52	21.45	21.49	19.92	19.85	19.89	19.82	19.75	19.79
		1	74	21.62	21.57	21.63	20.02	19.97	20.03	19.92	19.87	19.93
		36	0	20.68	20.70	20.77	19.08	19.10	19.17	18.98	19.00	19.07
		36	18	20.53	20.50	20.56	18.93	18.90	18.96	18.83	18.80	18.86
		36	39	20.59	20.57	20.61	18.99	18.97	19.01	18.89	18.87	18.91
		75	0	20.66	20.64	20.67	19.06	19.04	19.07	18.96	18.94	18.97
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				20850/ 2510	21100/ 2535	21350/ 2560	20850/ 2510	21100/ 2535	21350/ 2560	20850/ 2510	21100/ 2535	21350/ 2560
20MHz	QPSK	1	0	23.43	23.54	23.52	21.83	21.94	21.92	21.73	21.84	21.82
		1	50	23.74	23.74	23.67	22.14	22.14	22.07	22.04	22.04	21.97
		1	99	23.59	23.66	23.43	21.99	22.06	21.83	21.89	21.96	21.73
		50	0	22.60	22.64	22.61	21.00	21.04	21.01	20.90	20.94	20.91
		50	25	22.68	22.67	22.66	21.08	21.07	21.06	20.98	20.97	20.96
		50	50	22.65	22.61	22.64	21.05	21.01	21.04	20.95	20.91	20.94
		100	0	22.59	22.71	22.60	20.99	21.11	21.00	20.89	21.01	20.90
	16QAM	1	0	22.65	22.60	22.66	21.05	21.00	21.06	20.95	20.90	20.96
		1	50	22.78	23.01	22.79	21.18	21.41	21.19	21.08	21.31	21.09



		1	99	22.70	22.69	22.68	21.10	21.09	21.08	21.00	20.99	20.98
		50	0	21.71	21.76	21.74	20.11	20.16	20.14	20.01	20.06	20.04
		50	25	21.68	21.71	21.67	20.08	20.11	20.07	19.98	20.01	19.97
		50	50	21.59	21.69	21.60	19.99	20.09	20.00	19.89	19.99	19.90
		100	0	21.58	21.67	21.58	19.98	20.07	19.98	19.88	19.97	19.88
	64QAM	1	0	21.60	21.53	21.57	20.00	19.93	19.97	19.90	19.83	19.87
		1	50	21.48	21.43	21.45	19.88	19.83	19.85	19.78	19.73	19.75
		1	99	21.56	21.51	21.57	19.96	19.91	19.97	19.86	19.81	19.87
		50	0	20.63	20.62	20.70	19.03	19.02	19.10	18.93	18.92	19.00
		50	25	20.49	20.46	20.50	18.89	18.86	18.90	18.79	18.76	18.80
		50	50	20.56	20.52	20.57	18.96	18.92	18.97	18.86	18.82	18.87
		100	0	20.64	20.60	20.64	19.04	19.00	19.04	18.94	18.90	18.94

LTE Band 38				Maximum Output Power(dBm)			EIRP (dBm) (Low Antenna)			EIRP (dBm) (Upper Antenna)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				37775/ 2572.5	38000/ 2595	38225/ 2617.5	37775/ 2572.5	38000/ 2595	38225/ 2617.5	37775/ 2572.5	38000/ 2595	38225/ 2617.5
5MHz	QPSK	1	0	24.08	24.04	23.93	24.08	24.04	23.93	22.48	22.44	22.33
		1	13	24.32	24.19	24.17	24.32	24.19	24.17	22.72	22.59	22.57
		1	24	24.09	24.00	23.89	24.09	24.00	23.89	22.49	22.40	22.29
		12	0	23.18	23.16	23.06	23.18	23.16	23.06	21.58	21.56	21.46
		12	6	23.27	23.19	23.12	23.27	23.19	23.12	21.67	21.59	21.52
		12	13	23.27	23.17	23.05	23.27	23.17	23.05	21.67	21.57	21.45
		25	0	23.22	23.28	23.22	23.22	23.28	23.22	21.62	21.68	21.62
	16QAM	1	0	23.28	23.11	23.11	23.28	23.11	23.11	21.68	21.51	21.51
		1	13	23.26	23.30	23.30	23.26	23.30	23.30	21.66	21.70	21.70
		1	24	23.06	23.15	23.20	23.06	23.15	23.20	21.46	21.55	21.60
		12	0	22.24	22.28	22.27	22.24	22.28	22.27	20.64	20.68	20.67
		12	6	22.28	22.33	22.32	22.28	22.33	22.32	20.68	20.73	20.72
		12	13	22.37	22.35	22.32	22.37	22.35	22.32	20.77	20.75	20.72
		25	0	22.23	22.31	22.28	22.23	22.31	22.28	20.63	20.71	20.68
	64QAM	1	0	22.12	22.08	22.13	22.12	22.08	22.13	20.52	20.48	20.53
		1	13	21.94	21.91	21.92	21.94	21.91	21.92	20.34	20.31	20.32
		1	24	22.05	21.97	22.01	22.05	21.97	22.01	20.45	20.37	20.41
		12	0	21.27	21.19	21.29	21.27	21.19	21.29	19.67	19.59	19.69
		12	6	21.31	21.23	21.32	21.31	21.23	21.32	19.71	19.63	19.72



		12	13	21.25	21.18	21.26	21.25	21.18	21.26	19.65	19.58	19.66
		25	0	21.30	21.23	21.30	21.30	21.23	21.30	19.70	19.63	19.70
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				37800/ 2575	38000/ 2595	38200/ 2615	37800/ 2575	38000/ 2595	38200/ 2615	37800/ 2575	38000/ 2595	38200/ 2615
10MHz	QPSK	1	0	24.10	24.05	23.96	24.10	24.05	23.96	22.50	22.45	22.36
		1	25	24.35	24.24	24.21	24.35	24.24	24.21	22.75	22.64	22.61
		1	49	24.11	24.04	23.92	24.11	24.04	23.92	22.51	22.44	22.32
		25	0	23.21	23.21	23.10	23.21	23.21	23.10	21.61	21.61	21.50
		25	13	23.30	23.24	23.16	23.30	23.24	23.16	21.70	21.64	21.56
		25	25	23.29	23.21	23.10	23.29	23.21	23.10	21.69	21.61	21.50
		50	0	23.26	23.30	23.26	23.26	23.30	23.26	21.66	21.70	21.66
	16QAM	1	0	23.30	23.14	23.13	23.30	23.14	23.13	21.70	21.54	21.53
		1	25	23.29	23.34	23.33	23.29	23.34	23.33	21.69	21.74	21.73
		1	49	23.09	23.17	23.23	23.09	23.17	23.23	21.49	21.57	21.63
		25	0	22.27	22.33	22.31	22.27	22.33	22.31	20.67	20.73	20.71
		25	13	22.30	22.37	22.35	22.30	22.37	22.35	20.70	20.77	20.75
		25	25	22.40	22.40	22.36	22.40	22.40	22.36	20.80	20.80	20.76
		50	0	22.26	22.36	22.32	22.26	22.36	22.32	20.66	20.76	20.72
	64QAM	1	0	22.14	22.07	22.15	22.14	22.07	22.15	20.54	20.47	20.55
		1	25	21.97	21.91	21.95	21.97	21.91	21.95	20.37	20.31	20.35
		1	49	22.04	21.99	22.04	22.04	21.99	22.04	20.44	20.39	20.44
		25	0	21.30	21.24	21.29	21.30	21.24	21.29	19.70	19.64	19.69
		25	13	21.33	21.27	21.35	21.33	21.27	21.35	19.73	19.67	19.75
		25	25	21.28	21.23	21.30	21.28	21.23	21.30	19.68	19.63	19.70
		50	0	21.33	21.28	21.34	21.33	21.28	21.34	19.73	19.68	19.74
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				37825/ 2577.5	38000/ 2595	38175/ 2612.5	37825/ 2577.5	38000/ 2595	38175/ 2612.5	37825/ 2577.5	38000/ 2595	38175/ 2612.5
15MHz	QPSK	1	0	24.09	24.01	23.94	24.09	24.01	23.94	22.49	22.41	22.34
		1	38	24.33	24.23	24.18	24.33	24.23	24.18	22.73	22.63	22.58
		1	74	24.08	23.99	23.88	24.08	23.99	23.88	22.48	22.39	22.28
		36	0	23.19	23.17	23.07	23.19	23.17	23.07	21.59	21.57	21.47
		36	18	23.27	23.19	23.12	23.27	23.19	23.12	21.67	21.59	21.52
		36	39	23.26	23.18	23.06	23.26	23.18	23.06	21.66	21.58	21.46
		75	0	23.24	23.26	23.21	23.24	23.26	23.21	21.64	21.66	21.61
	16QAM	1	0	23.25	23.12	23.11	23.25	23.12	23.11	21.65	21.52	21.51



		1	38	23.27	23.31	23.31	23.27	23.31	23.31	21.67	21.71	21.71
		1	74	23.06	23.13	23.20	23.06	23.13	23.20	21.46	21.53	21.60
		36	0	22.24	22.31	22.28	22.24	22.31	22.28	20.64	20.71	20.68
		36	18	22.27	22.32	22.31	22.27	22.32	22.31	20.67	20.72	20.71
		36	39	22.38	22.36	22.33	22.38	22.36	22.33	20.78	20.76	20.73
		75	0	22.23	22.31	22.28	22.23	22.31	22.28	20.63	20.71	20.68
		1	0	22.09	22.05	22.13	22.09	22.05	22.13	20.49	20.45	20.53
	64QAM	1	38	21.95	21.88	21.93	21.95	21.88	21.93	20.35	20.28	20.33
		1	74	22.05	21.98	22.05	22.05	21.98	22.05	20.45	20.38	20.45
		36	0	21.29	21.26	21.30	21.29	21.26	21.30	19.69	19.66	19.70
		36	18	21.31	21.24	21.34	21.31	21.24	21.34	19.71	19.64	19.74
		36	39	21.26	21.19	21.27	21.26	21.19	21.27	19.66	19.59	19.67
		75	0	21.30	21.23	21.30	21.30	21.23	21.30	19.70	19.63	19.70
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				37850/ 2580	38000/ 2595	38150/ 2610	37850/ 2580	38000/ 2595	38150/ 2610	37850/ 2580	38000/ 2595	38150/ 2610
20MHz	QPSK	1	0	24.06	23.97	23.91	24.06	23.97	23.91	22.46	22.37	22.31
		1	50	24.32	24.19	24.16	24.32	24.19	24.16	22.72	22.59	22.56
		1	99	24.06	23.98	23.85	24.06	23.98	23.85	22.46	22.38	22.25
		50	0	23.16	23.12	23.03	23.16	23.12	23.03	21.56	21.52	21.43
		50	25	23.25	23.15	23.09	23.25	23.15	23.09	21.65	21.55	21.49
		50	50	23.23	23.13	23.02	23.23	23.13	23.02	21.63	21.53	21.42
		100	0	23.21	23.21	23.17	23.21	23.21	23.17	21.61	21.61	21.57
	16QAM	1	0	23.02	23.08	23.06	23.02	23.08	23.06	21.42	21.48	21.46
		1	50	23.23	23.29	23.27	23.23	23.29	23.27	21.63	21.69	21.67
		1	99	23.04	23.10	23.18	23.04	23.10	23.18	21.44	21.50	21.58
		50	0	22.21	22.27	22.25	22.21	22.27	22.25	20.61	20.67	20.65
		50	25	22.24	22.30	22.28	22.24	22.30	22.28	20.64	20.70	20.68
		50	50	22.35	22.31	22.29	22.35	22.31	22.29	20.75	20.71	20.69
		100	0	22.21	22.27	22.25	22.21	22.27	22.25	20.61	20.67	20.65
	64QAM	1	0	22.07	22.01	22.08	22.07	22.01	22.08	20.47	20.41	20.48
		1	50	21.91	21.86	21.89	21.91	21.86	21.89	20.31	20.26	20.29
		1	99	21.99	21.92	21.99	21.99	21.92	21.99	20.39	20.32	20.39
		50	0	21.24	21.18	21.23	21.24	21.18	21.23	19.64	19.58	19.63
		50	25	21.27	21.20	21.28	21.27	21.20	21.28	19.67	19.60	19.68
		50	50	21.23	21.14	21.23	21.23	21.14	21.23	19.63	19.54	19.63
		100	0	21.28	21.19	21.27	21.28	21.19	21.27	19.68	19.59	19.67



LTE Band 41				Maximum Output Power(dBm)			EIRP (dBm) (Low Antenna)			EIRP (dBm) (Upper Antenna)		
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				40065/ 2537.5	40640/ 2595	41215/ 2652.5	40065/ 2537.5	40640/ 2595	41215/ 2652.5	40065/ 2537.5	40640/ 2595	41215/ 2652.5
5MHz	QPSK	1	0	24.01	24.05	23.83	24.01	24.05	23.83	22.41	22.45	22.23
		1	13	24.30	24.27	24.00	24.30	24.27	24.00	22.70	22.67	22.40
		1	24	24.12	24.00	23.73	24.12	24.00	23.73	22.52	22.40	22.13
		12	0	23.06	23.09	22.95	23.06	23.09	22.95	21.46	21.49	21.35
		12	6	23.28	23.16	22.96	23.28	23.16	22.96	21.68	21.56	21.36
		12	13	23.28	23.09	22.87	23.28	23.09	22.87	21.68	21.49	21.27
		25	0	23.26	23.19	22.89	23.26	23.19	22.89	21.66	21.59	21.29
	16QAM	1	0	23.18	23.19	23.23	23.18	23.19	23.23	21.58	21.59	21.63
		1	13	23.16	23.31	23.21	23.16	23.31	23.21	21.56	21.71	21.61
		1	24	23.10	23.14	23.15	23.10	23.14	23.15	21.50	21.54	21.55
		12	0	22.22	22.28	22.27	22.22	22.28	22.27	20.62	20.68	20.67
		12	6	22.17	22.25	22.22	22.17	22.25	22.22	20.57	20.65	20.62
		12	13	22.22	22.30	22.26	22.22	22.30	22.26	20.62	20.70	20.66
		25	0	22.17	22.31	22.22	22.17	22.31	22.22	20.57	20.71	20.62
	64QAM	1	0	22.18	22.03	22.18	22.18	22.03	22.18	20.58	20.43	20.58
		1	13	22.06	21.91	22.08	22.06	21.91	22.08	20.46	20.31	20.48
		1	24	22.18	21.99	22.16	22.18	21.99	22.16	20.58	20.39	20.56
		12	0	21.16	21.06	21.12	21.16	21.06	21.12	19.56	19.46	19.52
		12	6	21.14	21.09	21.19	21.14	21.09	21.19	19.54	19.49	19.59
		12	13	21.21	21.17	21.16	21.21	21.17	21.16	19.61	19.57	19.56
		25	0	21.10	21.06	21.06	21.10	21.06	21.06	19.50	19.46	19.46
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				40090/ 2540	40640/ 2595	41190/ 2650	40090/ 2540	40640/ 2595	41190/ 2650	40090/ 2540	40640/ 2595	41190/ 2650
10MHz	QPSK	1	0	24.03	24.08	23.85	24.03	24.08	23.85	22.43	22.48	22.25
		1	25	24.33	24.31	24.03	24.33	24.31	24.03	22.73	22.71	22.43
		1	49	24.14	24.03	23.75	24.14	24.03	23.75	22.54	22.43	22.15
		25	0	23.09	23.13	22.98	23.09	23.13	22.98	21.49	21.53	21.38
		25	13	23.31	23.20	22.99	23.31	23.20	22.99	21.71	21.60	21.39
		25	25	23.30	23.14	22.89	23.30	23.14	22.89	21.70	21.54	21.29
		50	0	23.30	23.23	22.93	23.30	23.23	22.93	21.70	21.63	21.33
	16QAM	1	0	23.20	23.21	23.25	23.20	23.21	23.25	21.60	21.61	21.65



		1	25	23.19	23.34	23.24	23.19	23.34	23.24	21.59	21.74	21.64
		1	49	23.13	23.17	23.18	23.13	23.17	23.18	21.53	21.57	21.58
		25	0	22.25	22.32	22.30	22.25	22.32	22.30	20.65	20.72	20.70
		25	13	22.19	22.28	22.24	22.19	22.28	22.24	20.59	20.68	20.64
		25	25	22.25	22.34	22.29	22.25	22.34	22.29	20.65	20.74	20.69
		50	0	22.20	22.35	22.25	22.20	22.35	22.25	20.60	20.75	20.65
		1	0	22.20	22.05	22.20	22.20	22.05	22.20	20.60	20.45	20.60
	64QAM	1	25	22.09	21.94	22.11	22.09	21.94	22.11	20.49	20.34	20.51
		1	49	22.17	22.02	22.15	22.17	22.02	22.15	20.57	20.42	20.55
		25	0	21.19	21.06	21.15	21.19	21.06	21.15	19.59	19.46	19.55
		25	13	21.16	21.12	21.21	21.16	21.12	21.21	19.56	19.52	19.61
		25	25	21.24	21.21	21.19	21.24	21.21	21.19	19.64	19.61	19.59
		50	0	21.13	21.10	21.09	21.13	21.10	21.09	19.53	19.50	19.49
BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				40115/ 2542.5	40640/ 2595	41165/ 2647.5	40115/ 2542.5	40640/ 2595	41165/ 2647.5	40115/ 2542.5	40640/ 2595	41165/ 2647.5
15MHz	QPSK	1	0	24.02	24.06	23.84	24.02	24.06	23.84	22.42	22.46	22.24
		1	38	24.31	24.28	24.01	24.31	24.28	24.01	22.71	22.68	22.41
		1	74	24.11	23.99	23.72	24.11	23.99	23.72	22.51	22.39	22.12
		36	0	23.07	23.10	22.96	23.07	23.10	22.96	21.47	21.50	21.36
		36	18	23.28	23.16	22.96	23.28	23.16	22.96	21.68	21.56	21.36
		36	39	23.27	23.10	22.86	23.27	23.10	22.86	21.67	21.50	21.26
		75	0	23.28	23.18	22.91	23.28	23.18	22.91	21.68	21.58	21.31
	16QAM	1	0	23.15	23.19	23.20	23.15	23.19	23.20	21.55	21.59	21.60
		1	38	23.17	23.32	23.22	23.17	23.32	23.22	21.57	21.72	21.62
		1	74	23.10	23.14	23.15	23.10	23.14	23.15	21.50	21.54	21.55
		36	0	22.22	22.29	22.27	22.22	22.29	22.27	20.62	20.69	20.67
		36	18	22.16	22.24	22.21	22.16	22.24	22.21	20.56	20.64	20.61
		36	39	22.23	22.31	22.27	22.23	22.31	22.27	20.63	20.71	20.67
		75	0	22.17	22.31	22.22	22.17	22.31	22.22	20.57	20.71	20.62
	64QAM	1	0	22.15	22.03	22.15	22.15	22.03	22.15	20.55	20.43	20.55
		1	38	22.07	21.92	22.09	22.07	21.92	22.09	20.47	20.32	20.49
		1	74	22.18	22.03	22.16	22.18	22.03	22.16	20.58	20.43	20.56
		36	0	21.18	21.07	21.14	21.18	21.07	21.14	19.58	19.47	19.54
		36	18	21.14	21.11	21.19	21.14	21.11	21.19	19.54	19.51	19.59
		36	39	21.22	21.18	21.17	21.22	21.18	21.17	19.62	19.58	19.57
		75	0	21.10	21.06	21.06	21.10	21.06	21.06	19.50	19.46	19.46



BW	Modulation	RB size	RB offset	Channel/Frequency(MHz)								
				40140/ 2545	40640/ 2595	41140/ 2645	40140/ 2545	40640/ 2595	41140/ 2645	40140/ 2545	40640/ 2595	41140/ 2645
20MHz	QPSK	1	0	23.99	24.03	23.81	23.99	24.03	23.81	22.39	22.43	22.21
		1	50	24.30	24.26	24.00	24.30	24.26	24.00	22.70	22.66	22.40
		1	99	24.09	23.96	23.70	24.09	23.96	23.70	22.49	22.36	22.10
		50	0	23.04	23.06	22.93	23.04	23.06	22.93	21.44	21.46	21.33
		50	25	23.26	23.13	22.94	23.26	23.13	22.94	21.66	21.53	21.34
		50	50	23.24	23.06	22.83	23.24	23.06	22.83	21.64	21.46	21.23
		100	0	23.25	23.14	22.88	23.25	23.14	22.88	21.65	21.54	21.28
	16QAM	1	0	23.12	23.14	23.17	23.12	23.14	23.17	21.52	21.54	21.57
		1	50	23.13	23.28	23.18	23.13	23.28	23.18	21.53	21.68	21.58
		1	99	23.08	23.12	23.13	23.08	23.12	23.13	21.48	21.52	21.53
		50	0	22.19	22.26	22.24	22.19	22.26	22.24	20.59	20.66	20.64
		50	25	22.13	22.21	22.18	22.13	22.21	22.18	20.53	20.61	20.58
		50	50	22.20	22.27	22.24	22.20	22.27	22.24	20.60	20.67	20.64
		100	0	22.15	22.28	22.20	22.15	22.28	22.20	20.55	20.68	20.60
	64QAM	1	0	22.13	21.98	22.13	22.13	21.98	22.13	20.53	20.38	20.53
		1	50	22.03	21.88	22.05	22.03	21.88	22.05	20.43	20.28	20.45
		1	99	22.12	21.97	22.10	22.12	21.97	22.10	20.52	20.37	20.50
		50	0	21.13	21.00	21.09	21.13	21.00	21.09	19.53	19.40	19.49
		50	25	21.10	21.05	21.15	21.10	21.05	21.15	19.50	19.45	19.55
		50	50	21.19	21.14	21.14	21.19	21.14	21.14	19.59	19.54	19.54
		100	0	21.08	21.03	21.04	21.08	21.03	21.04	19.48	19.43	19.44

CA_7C	PCC	SCC	PCC RB		SCC1 RB		Conducted Power (dBm)			EIRP (dBm) (Low Antenna)			EIRP (dBm) (Upper Antenna)		
	Frequency (MHz)	Frequency (MHz)	Size	Offset	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10MHz+ 20MHz	2505.5	2519.9	1	49	1	0	23.48	22.95	22.02	21.88	21.35	20.42	21.78	21.25	20.32
			50	0	100	0	19.20	18.19	17.72	17.60	16.59	16.12	17.50	16.49	16.02
	2525.6	2540	1	49	1	0	23.33	22.34	21.85	21.73	20.74	20.25	21.63	20.64	20.15
			50	0	100	0	18.43	17.47	16.97	16.83	15.87	15.37	16.73	15.77	15.27
	2545.6	2560	1	49	1	0	23.24	22.57	21.72	21.64	20.97	20.12	21.54	20.87	20.02
			50	0	100	0	18.98	18.00	17.50	17.38	16.40	15.90	17.28	16.30	15.80
20MHz+ 10MHz	2510	2524.4	1	99	1	0	23.59	22.98	22.45	21.99	21.38	20.85	21.89	21.28	20.75
			100	0	50	0	19.75	18.72	18.19	18.15	17.12	16.59	18.05	17.02	16.49
	2530.1	2544.5	1	99	1	0	23.44	22.83	22.28	21.84	21.23	20.68	21.74	21.13	20.58



	2550.1	2564.5	100	0	50	0	19.36	18.33	17.84	17.76	16.73	16.24	17.66	16.63	16.14
			1	99	1	0	23.27	22.57	22.18	21.67	20.97	20.58	21.57	20.87	20.48
			100	0	50	0	19.42	18.39	17.92	17.82	16.79	16.32	17.72	16.69	16.22
15MHz+ 15MHz	2507.5	2522.5	1	74	1	0	23.31	22.54	21.83	21.71	20.94	20.23	21.61	20.84	20.13
			75	0	75	0	19.26	18.19	17.69	17.66	16.59	16.09	17.56	16.49	15.99
	2527.5	2542.5	1	74	1	0	23.15	22.36	21.65	21.55	20.76	20.05	21.45	20.66	19.95
			75	0	75	0	18.59	17.51	17.01	16.99	15.91	15.41	16.89	15.81	15.31
	2547.5	2562.5	1	74	1	0	23.02	22.24	21.52	21.42	20.64	19.92	21.32	20.54	19.82
			75	0	75	0	19.01	17.96	17.46	17.41	16.36	15.86	17.31	16.26	15.76
15MHz+ 20MHz	2507.8	2524.9	1	74	1	0	23.43	22.89	21.95	21.83	21.29	20.35	21.73	21.19	20.25
			75	0	100	0	19.23	18.21	17.67	17.63	16.61	16.07	17.53	16.51	15.97
	2525.3	2542.4	1	74	1	0	23.32	22.54	21.81	21.72	20.94	20.21	21.62	20.84	20.11
			75	0	100	0	18.57	17.47	16.99	16.97	15.87	15.39	16.87	15.77	15.29
	2542.9	2560	1	74	1	0	23.19	22.46	21.74	21.59	20.86	20.14	21.49	20.76	20.04
			75	0	100	0	19.16	18.08	17.62	17.56	16.48	16.02	17.46	16.38	15.92
20MHz+ 15MHz	2510	2527.1	1	99	1	0	23.56	22.97	22.47	21.96	21.37	20.87	21.86	21.27	20.77
			100	0	75	0	19.33	18.33	17.78	17.73	16.73	16.18	17.63	16.63	16.08
	2527.6	2544.7	1	99	1	0	23.45	22.83	22.32	21.85	21.23	20.72	21.75	21.13	20.62
			100	0	75	0	18.95	17.92	17.43	17.35	16.32	15.83	17.25	16.22	15.73
	2545.1	2562.2	1	99	1	0	23.30	22.74	22.23	21.70	21.14	20.63	21.60	21.04	20.53
			100	0	75	0	19.31	18.24	17.76	17.71	16.64	16.16	17.61	16.54	16.06
20MHz+ 20MHz	2510	2529.8	1	99	1	0	23.48	22.91	22.39	21.88	21.31	20.79	21.78	21.21	20.69
			1	0	1	99	12.08	12.71	12.16	10.48	11.11	10.56	10.38	11.01	10.46
			100	0	100	0	19.12	18.13	17.61	17.52	16.53	16.01	17.42	16.43	15.91
	2525.1	2544.9	1	99	1	0	23.35	22.76	22.15	21.75	21.16	20.55	21.65	21.06	20.45
			1	0	1	99	12.21	12.79	12.10	10.61	11.19	10.50	10.51	11.09	10.40
			100	0	100	0	18.72	17.66	17.15	17.12	16.06	15.55	17.02	15.96	15.45
	2540.2	2560	1	99	1	0	23.26	22.68	22.16	21.66	21.08	20.56	21.56	20.98	20.46
			1	0	1	99	12.16	12.78	12.28	10.56	11.18	10.68	10.46	11.08	10.58
			100	0	100	0	19.20	18.19	17.67	17.60	16.59	16.07	17.50	16.49	15.97

CA_38C	PCC	SCC	PCC RB		SCC1 RB		Conducted Power (dBm)			EIRP (dBm) (Low Antenna)			EIRP (dBm) (Upper Antenna)		
	Frequency (MHz)	Frequency (MHz)	Size	Offset	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
15MHz+ 15MHz	2577.5	2592.5	1	74	1	0	20.65	19.76	19.26	20.65	19.76	19.26	19.05	18.16	17.66
			75	0	75	0	20.25	19.32	18.68	20.25	19.32	18.68	18.65	17.72	17.08
	2587.5	2602.5	1	74	1	0	20.55	19.68	19.33	20.55	19.68	19.33	18.95	18.08	17.73
			75	0	75	0	20.52	19.46	18.95	20.52	19.46	18.95	18.92	17.86	17.35
	2597.5	2612.5	1	74	1	0	20.52	19.60	19.21	20.52	19.60	19.21	18.92	18.00	17.61
			75	0	75	0	20.35	19.25	18.95	20.35	19.25	18.95	18.75	17.65	17.35



20MHz+ 20MHz	2580	2599.8	1	99	1	0	20.53	19.66	19.73	20.53	19.66	19.73	18.93	18.06	18.13
			1	0	1	99	9.46	9.69	9.15	9.46	9.69	9.15	7.86	8.09	7.55
			100	0	100	0	20.07	19.09	18.92	20.07	19.09	18.92	18.47	17.49	17.32
	2585.1	2604.9	1	99	1	0	20.47	19.86	19.79	20.47	19.86	19.79	18.87	18.26	18.19
			1	0	1	99	9.79	9.92	9.39	9.79	9.92	9.39	8.19	8.32	7.79
			100	0	100	0	20.21	19.18	19.03	20.21	19.18	19.03	18.61	17.58	17.43
	2590.2	2610	1	99	1	0	20.44	19.82	19.72	20.44	19.82	19.72	18.84	18.22	18.12
			1	0	1	99	9.87	10.03	9.52	9.87	10.03	9.52	8.27	8.43	7.92
			100	0	100	0	20.22	19.19	19.11	20.22	19.19	19.11	18.62	17.59	17.51

CA_41C	PCC	SCC	PCC RB		SCC1 RB		Conducted Power (dBm)			EIRP (dBm) (Low Antenna)			EIRP (dBm) (Upper Antenna)		
	Frequency (MHz)	Frequency (MHz)	Size	Offset	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz+ 20MHz	2538.3	2550	1	24	1	0	24.05	23.18	22.84	24.05	23.18	22.84	22.45	21.58	21.24
			25	0	100	0	19.59	18.63	18.03	19.59	18.63	18.03	17.99	17.03	16.43
	2585.8	2597.5	1	24	1	0	23.81	23.13	22.58	23.81	23.13	22.58	22.21	21.53	20.98
			25	0	100	0	19.63	18.61	18.07	19.63	18.61	18.07	18.03	17.01	16.47
	2633.3	2645	1	24	1	0	23.78	23.09	22.60	23.78	23.09	22.60	22.18	21.49	21.00
			25	0	100	0	19.08	18.09	17.54	19.08	18.09	17.54	17.48	16.49	15.94
20MHz+ 5MHz	2545	2556.7	1	99	1	0	24.25	23.71	23.13	24.25	23.71	23.13	22.65	22.11	21.53
			1	0	1	24	12.43	12.89	12.35	12.43	12.89	12.35	10.83	11.29	10.75
			100	0	25	0	21.68	20.69	20.20	21.68	20.69	20.20	20.08	19.09	18.60
	2592.5	2604.2	1	99	1	0	24.21	23.61	23.05	24.21	23.61	23.05	22.61	22.01	21.45
			1	0	1	24	11.69	12.12	11.58	11.69	12.12	11.58	10.09	10.52	9.98
			100	0	25	0	20.92	19.94	19.41	20.92	19.94	19.41	19.32	18.34	17.81
	2640	2651.7	1	99	1	0	24.30	23.70	23.13	24.30	23.70	23.13	22.70	22.10	21.53
			1	0	1	24	11.70	12.06	11.51	11.70	12.06	11.51	10.10	10.46	9.91
			100	0	25	0	21.25	20.32	19.76	21.25	20.32	19.76	19.65	18.72	18.16
10MHz+ 20MHz	2540.5	2554.9	1	49	1	0	24.36	23.37	22.84	24.36	23.37	22.84	22.76	21.77	21.24
			50	0	100	0	19.54	18.49	17.95	19.54	18.49	17.95	17.94	16.89	16.35
	2585.6	2600	1	49	1	0	24.16	23.15	22.62	24.16	23.15	22.62	22.56	21.55	21.02
			50	0	100	0	19.78	18.76	18.23	19.78	18.76	18.23	18.18	17.16	16.63
	2630.6	2645	1	49	1	0	24.12	23.17	22.61	24.12	23.17	22.61	22.52	21.57	21.01
			50	0	100	0	19.11	18.11	17.62	19.11	18.11	17.62	17.51	16.51	16.02
20MHz+ 10MHz	2545	2559.4	1	99	1	0	24.40	23.74	23.17	24.40	23.74	23.17	22.80	22.14	21.57
			100	0	50	0	20.10	19.08	18.54	20.10	19.08	18.54	18.50	17.48	16.94
	2590.1	2604.5	1	99	1	0	24.20	23.57	23.00	24.20	23.57	23.00	22.60	21.97	21.40
			100	0	50	0	20.29	19.23	18.75	20.29	19.23	18.75	18.69	17.63	17.15
	2635.1	2649.5	1	99	1	0	24.28	23.64	23.07	24.28	23.64	23.07	22.68	22.04	21.47
			100	0	50	0	19.97	19.01	18.41	19.97	19.01	18.41	18.37	17.41	16.81
15MHz+ 15MHz	2542.5	2557.5	1	74	1	0	23.99	23.28	22.71	23.99	23.28	22.71	22.39	21.68	21.11
			75	0	75	0	19.45	18.38	17.82	19.45	18.38	17.82	17.85	16.78	16.22



	2587.5	2602.5	1	74	1	0	23.78	23.06	22.57	23.78	23.06	22.57	22.18	21.46	20.97
			75	0	75	0	19.71	18.72	18.19	19.71	18.72	18.19	18.11	17.12	16.59
	2632.5	2647.5	1	74	1	0	23.73	23.06	22.56	23.73	23.06	22.56	22.13	21.46	20.96
			75	0	75	0	19.15	18.05	17.57	19.15	18.05	17.57	17.55	16.45	15.97
15MHz+ 20MHz	2542.8	2559.9	1	74	1	0	24.15	23.43	22.91	24.15	23.43	22.91	22.55	21.83	21.31
			75	0	100	0	19.31	18.22	17.77	19.31	18.22	17.77	17.71	16.62	16.17
	2585.3	2602.4	1	74	1	0	23.95	23.24	22.73	23.95	23.24	22.73	22.35	21.64	21.13
			75	0	100	0	19.76	18.71	18.25	19.76	18.71	18.25	18.16	17.11	16.65
	2627.9	2645	1	74	1	0	23.92	23.21	22.74	23.92	23.21	22.74	22.32	21.61	21.14
			75	0	100	0	18.98	17.97	17.46	18.98	17.97	17.46	17.38	16.37	15.86
20MHz+ 15MHz	2545	2562.1	1	99	1	0	24.34	23.67	23.17	24.34	23.67	23.17	22.74	22.07	21.57
			100	0	75	0	19.54	18.51	18.01	19.54	18.51	18.01	17.94	16.91	16.41
	2587.6	2604.7	1	99	1	0	24.16	23.50	23.03	24.16	23.50	23.03	22.56	21.90	21.43
			100	0	75	0	19.96	18.97	18.41	19.96	18.97	18.41	18.36	17.37	16.81
	2630.1	2647.2	1	99	1	0	24.15	23.49	22.99	24.15	23.49	22.99	22.55	21.89	21.39
			100	0	75	0	19.32	18.27	17.86	19.32	18.27	17.86	17.72	16.67	16.26
20MHz+ 20MHz	2545	2564.8	1	99	1	0	24.20	23.55	23.02	24.20	23.55	23.02	22.60	21.95	21.42
			1	0	1	99	11.94	12.30	11.81	11.94	12.30	11.81	10.34	10.70	10.21
			100	0	100	0	19.18	18.16	17.71	19.18	18.16	17.71	17.58	16.56	16.11
	2585.1	2604.9	1	99	1	0	24.07	23.43	22.92	24.07	23.43	22.92	22.47	21.83	21.32
			1	0	1	99	12.99	13.34	12.84	12.99	13.34	12.84	11.39	11.74	11.24
			100	0	100	0	19.85	18.81	18.33	19.85	18.81	18.33	18.25	17.21	16.73
	2625.2	2645	1	99	1	0	24.14	23.15	22.65	24.14	23.15	22.65	22.54	21.55	21.05
			1	0	1	99	11.96	12.22	11.74	11.96	12.22	11.74	10.36	10.62	10.14
			100	0	100	0	19.06	18.02	17.55	19.06	18.02	17.55	17.46	16.42	15.95

5.2 Occupied Bandwidth

Ambient condition

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

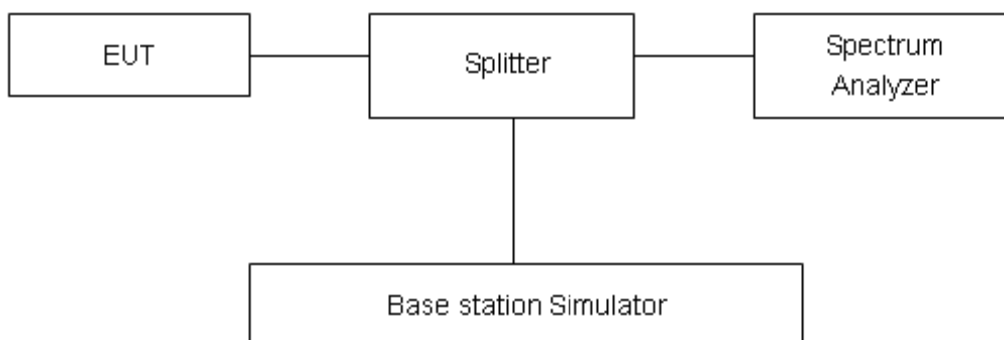
Method of Measurement

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 Result

Mode	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
WCDMA Band IV (RMC)	1312	1712.4	4.160	4.674
	1413	1732.6	4.169	4.689
	1513	1752.6	4.167	4.663

LTE Band 4						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	1.4	19957	1710.7	1.096	1.277
			20175	1732.5	1.092	1.266
			20393	1754.3	1.092	1.291
		3	19965	1711.5	2.703	2.917
			20175	1732.5	2.687	2.897
			20385	1753.5	2.693	2.899
		5	19975	1712.5	4.507	4.835
			20175	1732.5	4.506	4.910
			20375	1752.5	4.518	4.910
		10	20000	1715	8.990	9.711
			20175	1732.5	8.988	9.723
			20350	1750	9.005	9.724
		15	20025	1717.5	13.465	14.443
			20175	1732.5	13.420	14.487
			20325	1747.5	13.487	14.588
		20	20050	1720	17.981	19.033
			20175	1732.5	17.936	19.238
			20300	1745	17.915	19.212
	16QAM	1.4	19957	1710.7	1.092	1.284
			20175	1732.5	1.099	1.299
			20393	1754.3	1.089	1.264
		3	19965	1711.5	2.687	2.937
			20175	1732.5	2.690	2.907
			20385	1753.5	2.695	2.919
		5	19975	1712.5	4.513	4.936
			20175	1732.5	4.515	4.910
			20375	1752.5	4.522	4.884
		10	20000	1715	8.973	9.696
			20175	1732.5	8.998	9.651



		15	20350	1750	8.998	9.715
			20025	1717.5	13.488	14.476
			20175	1732.5	13.466	14.447
			20325	1747.5	13.477	14.559
		20	20050	1720	18.062	19.317
			20175	1732.5	17.971	19.397
			20300	1745	17.989	19.216
	64QAM	1.4	19957	1710.7	1.099	1.304
			20175	1732.5	1.097	1.308
			20393	1754.3	1.088	1.269
		3	19965	1711.5	2.683	2.895
			20175	1732.5	2.699	2.924
			20385	1753.5	2.687	2.927
		5	19975	1712.5	4.505	4.905
			20175	1732.5	4.502	4.852
			20375	1752.5	4.509	4.931
		10	20000	1715	9.005	9.694
			20175	1732.5	8.989	9.596
			20350	1750	8.998	9.761
		15	20025	1717.5	13.497	14.542
			20175	1732.5	13.466	14.534
			20325	1747.5	13.469	14.492
		20	20050	1720	17.992	19.261
			20175	1732.5	17.929	19.365
			20300	1745	17.970	19.344

LTE Band 7						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	20775	2502.5	4.508	4.887
			21100	2535	4.509	4.922
			21425	2567.5	4.513	4.906
		10	20800	2505	8.971	9.709
			21100	2535	8.986	9.727
			21400	2565	8.966	9.670
		15	20825	2507.5	13.427	14.729
			21100	2535	13.464	14.480
			21375	2562.5	13.459	14.472
		20	20850	2510	18.006	19.688



			21100	2535	17.955	19.304
			21350	2560	18.020	19.309
	16QAM	5	20775	2502.5	4.518	4.925
			21100	2535	4.508	4.890
			21425	2567.5	4.505	4.907
		10	20800	2505	8.991	9.618
			21100	2535	8.983	9.735
			21400	2565	8.997	9.689
		15	20825	2507.5	13.451	14.554
			21100	2535	13.459	14.463
			21375	2562.5	13.495	14.481
		20	20850	2510	17.950	19.279
			21100	2535	17.936	19.260
			21350	2560	17.989	19.523
	64QAM	5	20775	2502.5	4.506	4.903
			21100	2535	4.509	4.923
			21425	2567.5	4.510	4.861
		10	20800	2505	8.987	9.693
			21100	2535	8.993	9.622
			21400	2565	8.993	9.588
		15	20825	2507.5	13.485	14.512
			21100	2535	13.514	14.594
			21375	2562.5	13.448	14.462
		20	20850	2510	17.959	19.157
			21100	2535	18.051	19.247
			21350	2560	17.963	19.600

LTE Band 38						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	37775	2572.5	4.496	4.895
			38000	2595	4.505	4.869
			38225	2617.5	4.528	4.812
		10	37800	2575	9.000	9.855
			38000	2595	8.959	9.728
			38200	2615	8.990	10.033
		15	37825	2577.5	13.475	15.076
			38000	2595	13.440	14.428
			38175	2612.5	13.447	14.478



		20	37850	2580	17.957	19.109
			38000	2595	17.955	19.110
			38150	2610	17.962	19.462
	16QAM	5	37775	2572.5	4.511	4.853
			38000	2595	4.494	5.191
			38225	2617.5	4.503	4.897
		10	37800	2575	8.977	10.281
			38000	2595	8.975	9.904
			38200	2615	8.975	10.028
		15	37825	2577.5	13.457	14.664
			38000	2595	13.486	14.794
			38175	2612.5	13.494	14.445
		20	37850	2580	17.958	19.167
			38000	2595	17.934	20.064
			38150	2610	17.960	19.199
	64QAM	5	37775	2572.5	4.482	4.906
			38000	2595	4.496	4.990
			38225	2617.5	4.505	4.842
		10	37800	2575	8.979	9.731
			38000	2595	8.993	9.516
			38200	2615	9.006	9.664
		15	37825	2577.5	13.483	15.771
			38000	2595	13.448	15.040
			38175	2612.5	13.509	16.002
		20	37850	2580	17.991	19.219
			38000	2595	17.954	20.147
			38150	2610	17.974	19.633

LTE Band 41						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	40065	2537.5	4.510	4.825
			40640	2595	4.506	4.900
			41215	2652.5	4.511	4.919
		10	40090	2540	9.001	10.031
			40640	2595	9.005	9.688
			41190	2650	9.009	9.828
		15	40115	2542.5	13.495	14.355
			40640	2595	13.469	14.509



		20	41165	2647.5	13.487	14.624
			40140	2545	17.947	19.823
			40640	2595	17.983	19.579
			41140	2645	17.951	19.130
	16QAM	5	40065	2537.5	4.511	4.932
			40640	2595	4.504	4.895
			41215	2652.5	4.492	4.923
		10	40090	2540	9.006	9.614
			40640	2595	8.982	9.554
			41190	2650	9.013	10.840
		15	40115	2542.5	13.444	14.410
			40640	2595	13.437	15.025
			41165	2647.5	13.531	15.414
		20	40140	2545	17.920	19.122
			40640	2595	18.019	19.714
			41140	2645	17.951	19.116
	64QAM	5	40065	2537.5	4.502	4.871
			40640	2595	4.501	5.148
			41215	2652.5	4.499	4.790
		10	40090	2540	9.007	9.673
			40640	2595	8.972	9.752
			41190	2650	8.994	10.777
		15	40115	2542.5	13.483	14.727
			40640	2595	13.463	14.429
			41165	2647.5	13.445	14.628
		20	40140	2545	17.977	19.293
			40640	2595	17.973	19.280
			41140	2645	17.998	19.153

CA_7C	PCC		SCC1		PCC RB	SCC1 RB	Bandwidth(MHz)	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)			99% Power	-26dBc
10MHz+20MHz_QPSK	21006	2525.6	21150	2540	50#0	100#0	28.08	30.14
10MHz+20MHz_16QAM	21006	2525.6	21150	2540	50#0	100#0	28.05	30.04
10MHz+20MHz_64QAM	21006	2525.6	21150	2540	50#0	100#0	28.10	30.11
20MHz+10MHz_QPSK	21051	2530.1	21195	2544.5	100#0	50#0	28.17	30.31
20MHz+10MHz_16QAM	21051	2530.1	21195	2544.5	100#0	50#0	28.22	30.19
20MHz+10MHz_64QAM	21051	2530.1	21195	2544.5	100#0	50#0	28.19	30.20
15MHz+10MHz_QPSK	21051	2530.1	21171	2542.1	75#0	50#0	23.75	34.43
15MHz+10MHz_16QAM	21025	2530.1	21175	2542.1	75#0	50#0	23.81	39.93
15MHz+10MHz_64QAM	21025	2530.1	21175	2542.1	75#0	50#0	23.83	40.90
15MHz+15MHz_QPSK	21025	2527.5	21175	2542.5	75#0	75#0	28.72	30.79
15MHz+15MHz_16QAM	21025	2527.5	21175	2542.5	75#0	75#0	28.67	30.73
15MHz+15MHz_64QAM	21025	2527.5	21175	2542.5	75#0	75#0	28.69	30.81
15MHz+20MHz_QPSK	21003	2525.3	21174	2542.4	75#0	100#0	32.95	35.02
15MHz+20MHz_16QAM	21003	2525.3	21174	2542.4	75#0	100#0	32.96	35.01
15MHz+20MHz_64QAM	21003	2525.3	21174	2542.4	75#0	100#0	32.93	35.09
20MHz+15MHz_QPSK	21026	2527.6	21197	2544.7	100#0	75#0	32.98	35.29
20MHz+15MHz_16QAM	21026	2527.6	21197	2544.7	100#0	75#0	33.00	35.25
20MHz+15MHz_64QAM	21026	2527.6	21197	2544.7	100#0	75#0	32.99	35.21
20MHz+20MHz_QPSK	21001	2525.1	21199	2544.9	100#0	100#0	37.86	40.20
20MHz+20MHz_16QAM	21001	2525.1	21199	2544.9	100#0	100#0	37.84	40.03
20MHz+20MHz_64QAM	21001	2525.1	21199	2544.9	100#0	100#0	37.83	40.18

CA_38C	PCC		SCC1		PCC RB	SCC1 RB	Bandwidth(MHz)	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)			99% Power	-26dBc
15MHz+15MHz_QPSK	37925	2587.5	38075	2602.5	75#0	75#0	28.65	31.21
15MHz+15MHz_16QAM	37925	2587.5	38075	2602.5	75#0	75#0	28.69	36.92
15MHz+15MHz_64QAM	37925	2587.5	38075	2602.5	75#0	75#0	28.70	33.84
20MHz+20MHz_QPSK	37901	2585.1	38099	2604.9	100#0	100#0	37.87	43.24
20MHz+20MHz_16QAM	37901	2585.1	38099	2604.9	100#0	100#0	37.78	42.39
20MHz+20MHz_64QAM	37901	2585.1	38099	2604.9	100#0	100#0	37.79	40.36

CA_41C	PCC		SCC1		PCC RB	SCC1 RB	Bandwidth(MHz)	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)			99% Power	-26dBc
5MHz+20MHz_QPSK	40549	2585.9	40666	2597.6	25#0	100#0	23.44	29.63
5MHz+20MHz_16QAM	40549	2585.9	40666	2597.6	25#0	100#0	23.39	25.78
5MHz+20MHz_64QAM	40549	2585.9	40666	2597.6	25#0	100#0	23.37	26.17
20MHz+5MHz_QPSK	40615	2592.5	40732	2604.2	100#0	25#0	23.33	27.82
20MHz+5MHz_16QAM	40615	2592.5	40732	2604.2	100#0	25#0	23.32	26.14
20MHz+5MHz_64QAM	40615	2592.5	40732	2604.2	100#0	25#0	23.28	25.00
10MHz+20MHz_QPSK	40546	2585.6	40690	2600	50#0	75#0	28.16	32.93
10MHz+20MHz_16QAM	40546	2585.6	40690	2600	50#0	75#0	28.14	34.33
10MHz+20MHz_64QAM	40546	2585.6	40690	2600	50#0	75#0	28.12	33.02
20MHz+10MHz_QPSK	40591	2590.1	40735	2604.5	75#0	50#0	28.11	32.16
20MHz+10MHz_16QAM	40591	2590.1	40735	2604.5	75#0	50#0	28.16	33.65
20MHz+10MHz_64QAM	40591	2590.1	40735	2604.5	75#0	50#0	28.14	32.42
15MHz+15MHz_QPSK	40565	2587.5	40715	2602.5	75#0	75#0	28.65	32.18
15MHz+15MHz_16QAM	40565	2587.5	40715	2602.5	75#0	75#0	28.68	32.59
15MHz+15MHz_64QAM	40565	2587.5	40715	2602.5	75#0	75#0	28.63	34.76
15MHz+20MHz_QPSK	40543	2585.3	40714	2602.4	75#0	100#0	32.91	36.91
15MHz+20MHz_16QAM	40543	2585.3	40714	2602.4	75#0	100#0	32.91	38.32
15MHz+20MHz_64QAM	40543	2585.3	40714	2602.4	75#0	100#0	32.93	37.44
20MHz+15MHz_QPSK	40566	2587.6	40737	2604.7	100#0	75#0	32.96	37.98
20MHz+15MHz_16QAM	40566	2587.6	40737	2604.7	100#0	75#0	33.00	37.32
20MHz+15MHz_64QAM	40566	2587.6	40737	2604.7	100#0	75#0	32.78	36.03
20MHz+20MHz_QPSK	40541	2585.1	40739	2604.9	100#0	100#0	37.79	42.35
20MHz+20MHz_16QAM	40541	2585.1	40739	2604.9	100#0	100#0	37.69	42.27
20MHz+20MHz_64QAM	40541	2585.1	40739	2604.9	100#0	100#0	37.87	40.57



WCDMA Band IV CH-Low



WCDMA Band IV CH Middle



WCDMA Band IV CH High

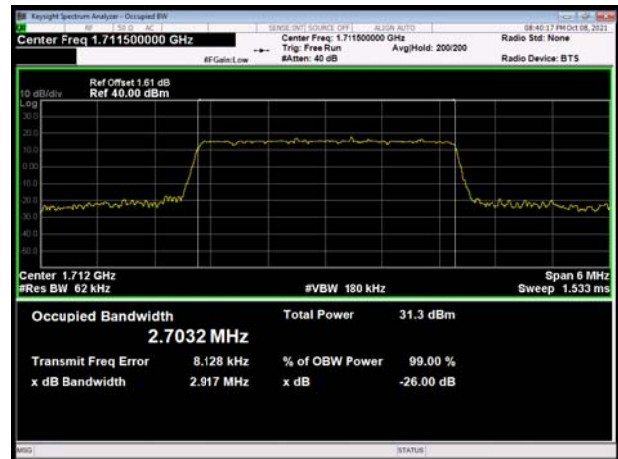




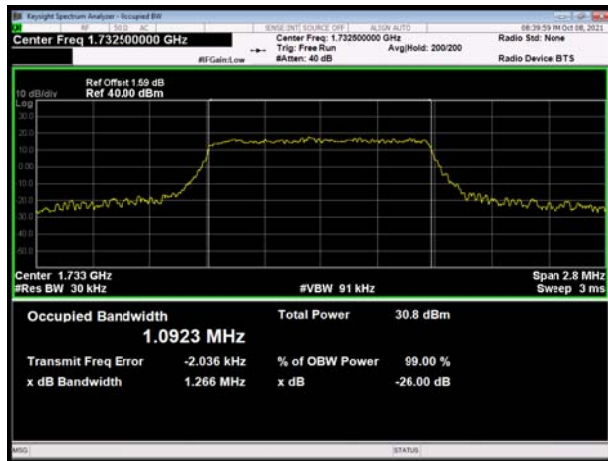
LTE Band 4 QPSK 1.4MHz CH-Low



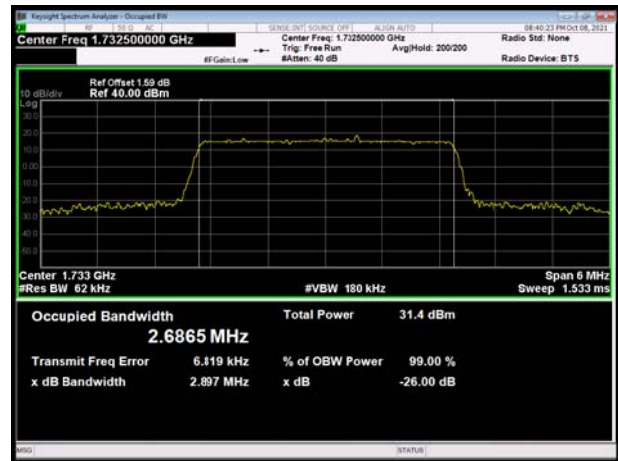
LTE Band 4 QPSK 3MHz CH-Low



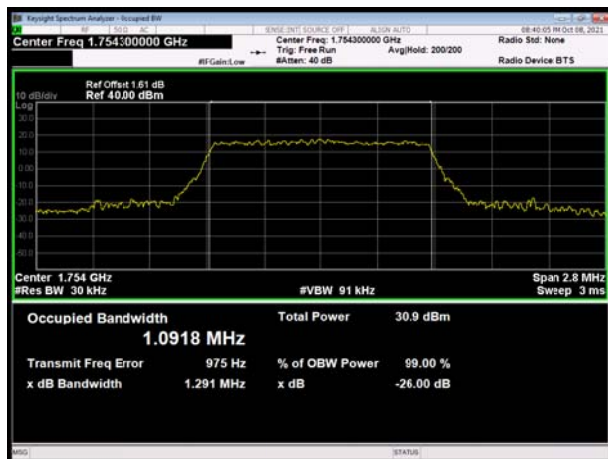
LTE Band 4 QPSK 1.4MHz CH-Middle



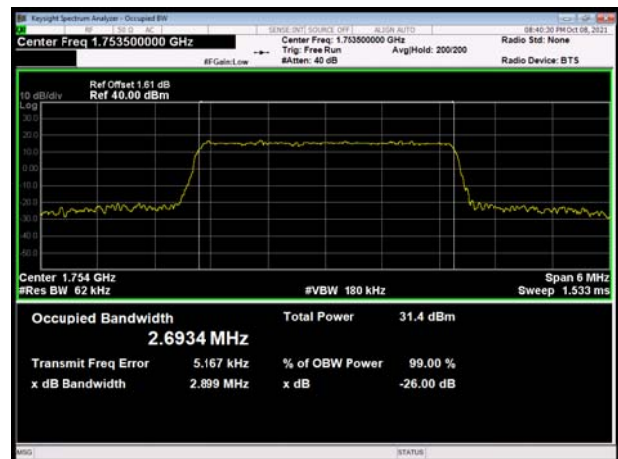
LTE Band 4 QPSK 3MHz CH-Middle



LTE Band 4 QPSK 1.4MHz CH-High

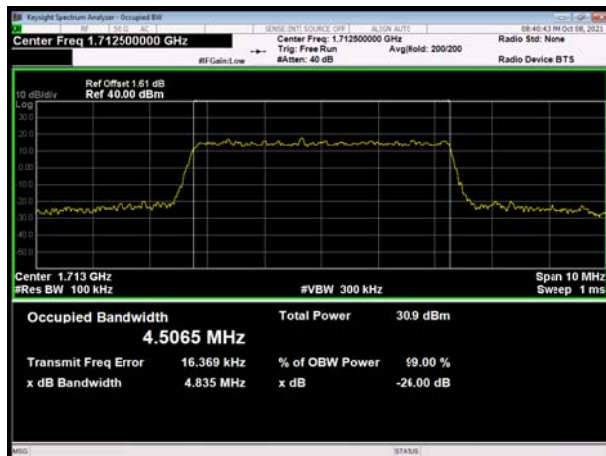


LTE Band 4 QPSK 3MHz CH-High





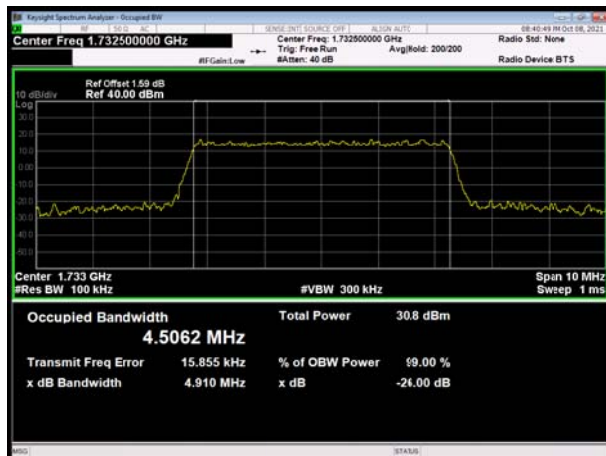
LTE Band 4 QPSK 5MHz CH-Low



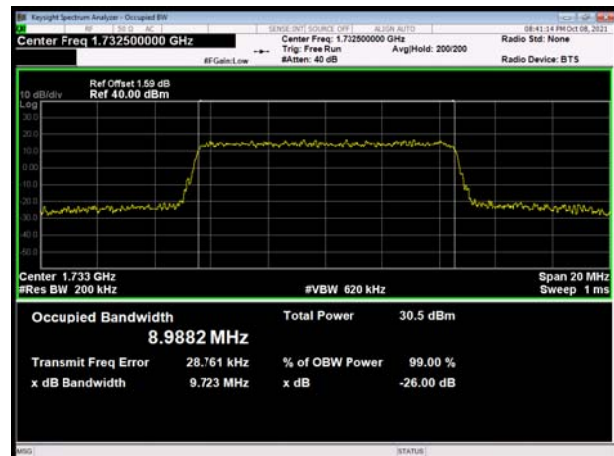
LTE Band 4 QPSK 10MHz CH-Low



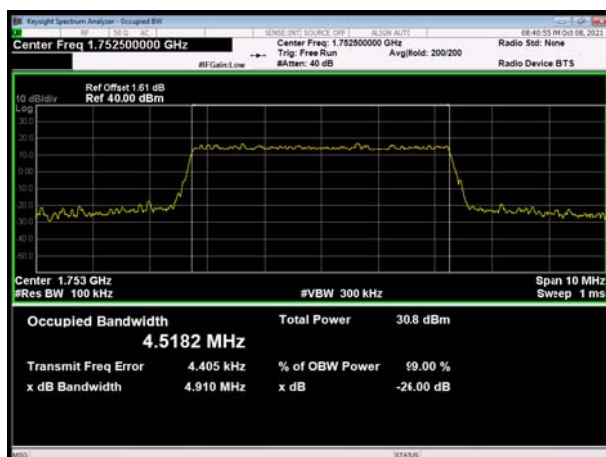
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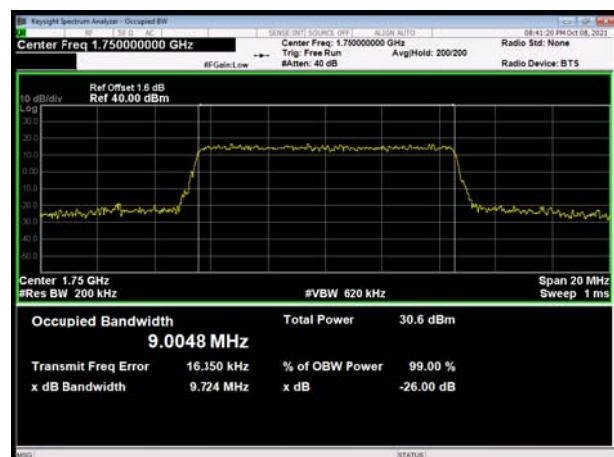
LTE Band 4 QPSK 10MHz CH-Middle



LTE Band 4 QPSK 5MHz CH-High

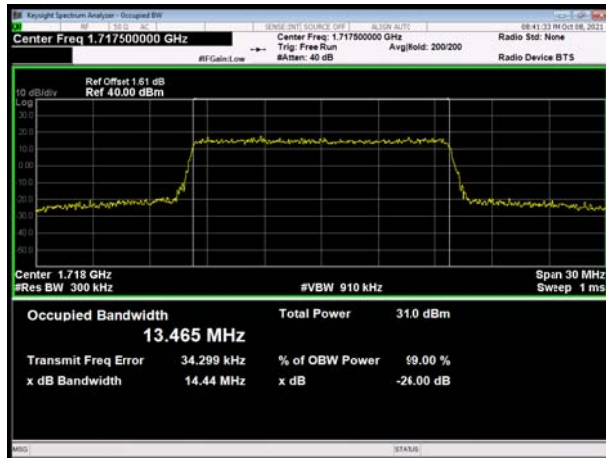


LTE Band 4 QPSK 10MHz CH-High

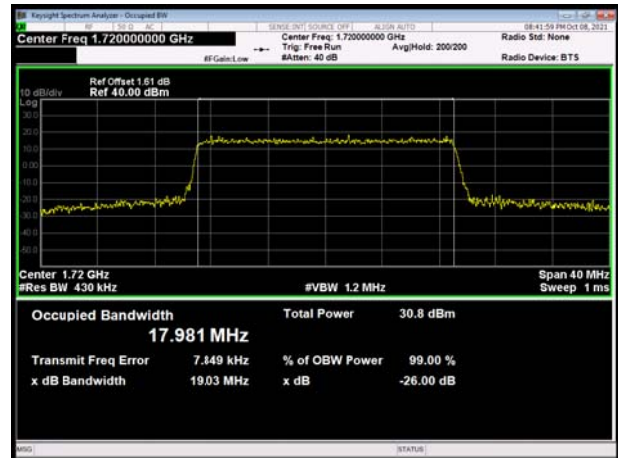




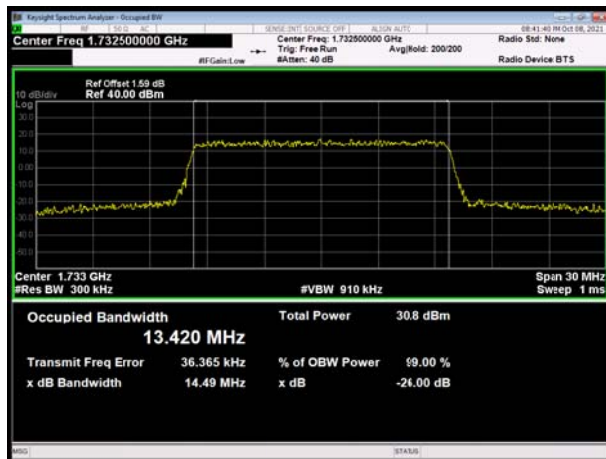
LTE Band 4 QPSK 15MHz CH-Low



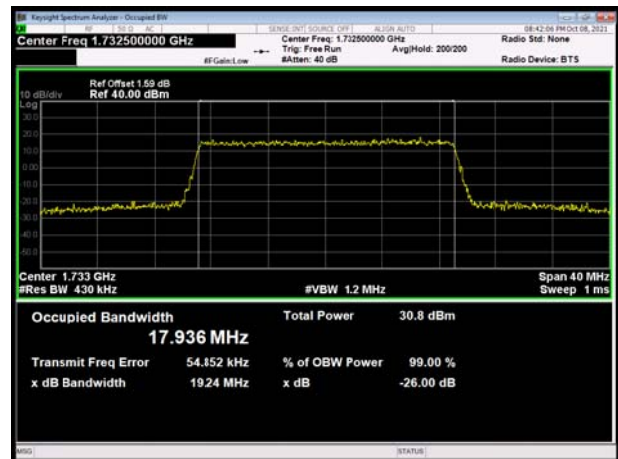
LTE Band 4 QPSK 20MHz CH-Low



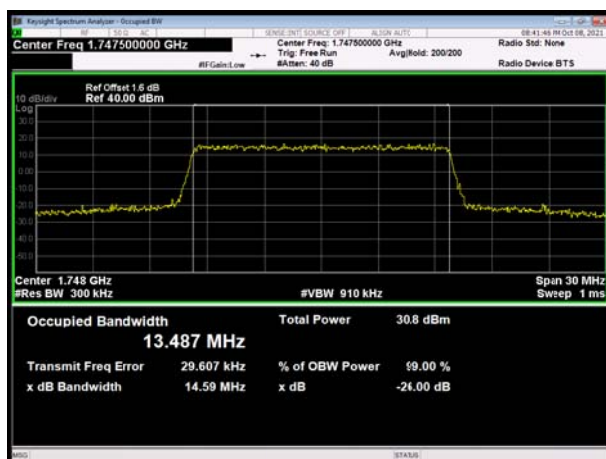
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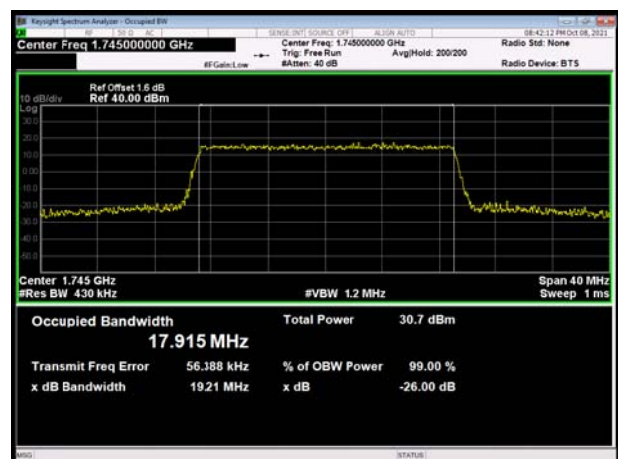
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LTE Band 4 QPSK 15MHz CH-High

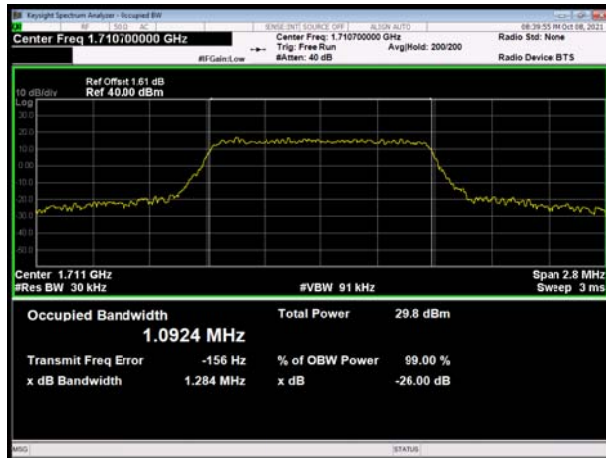


LTE Band 4 QPSK 20MHz CH-High

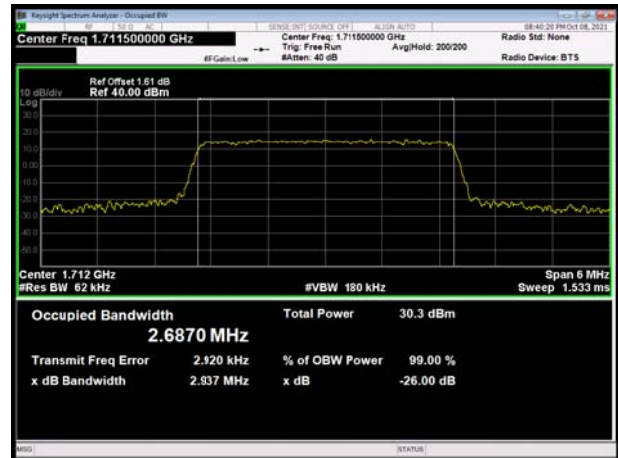




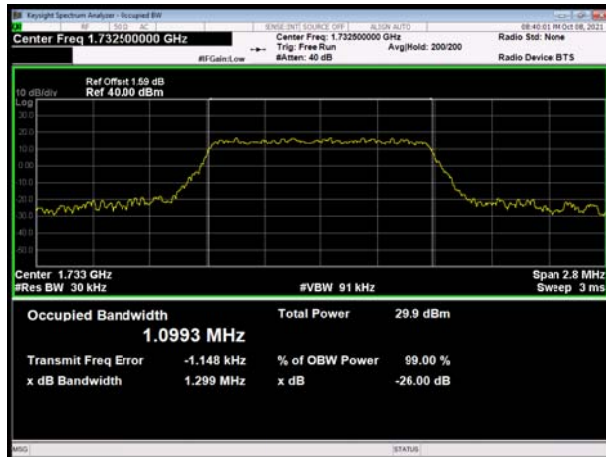
LTE Band 4 16QAM 1.4MHz CH-Low



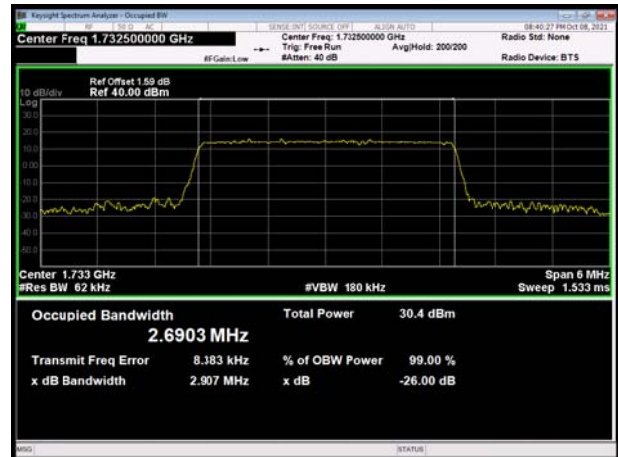
LTE Band 4 16QAM 3MHz CH-Low



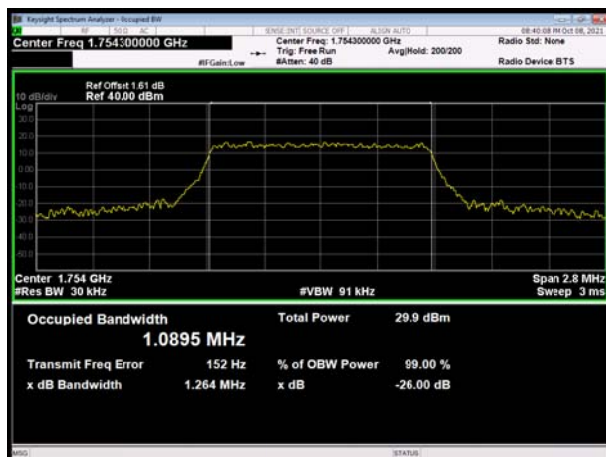
LTE Band 4 16QAM 1.4MHz CH-Middle



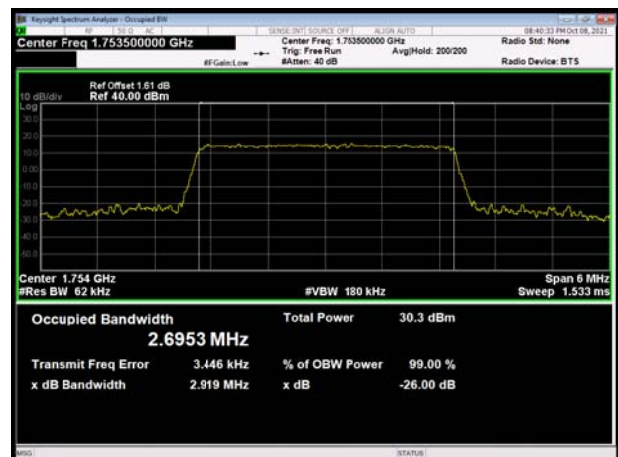
LTE Band 4 16QAM 3MHz CH-Middle



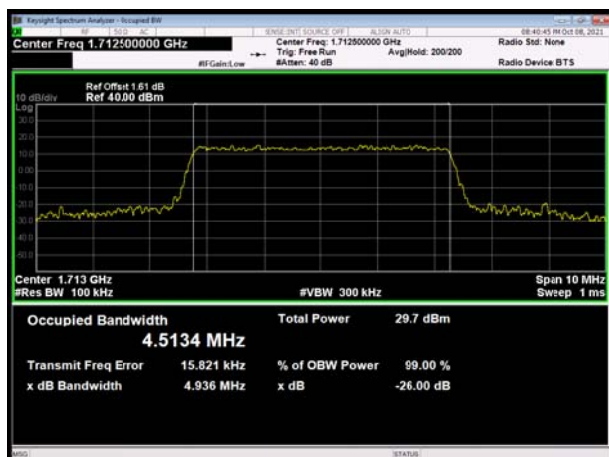
LTE Band 4 16QAM 1.4MHz CH-High



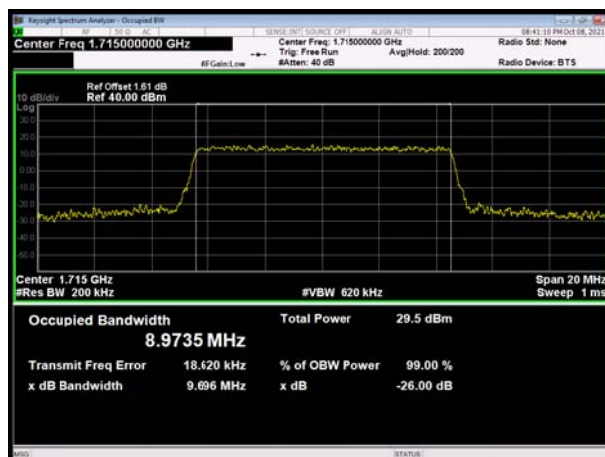
LTE Band 4 16QAM 3MHz CH-High



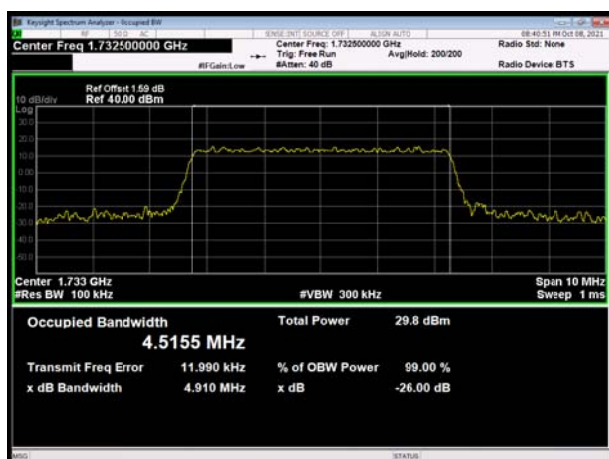
LTE Band 4 16QAM 5MHz CH-Low



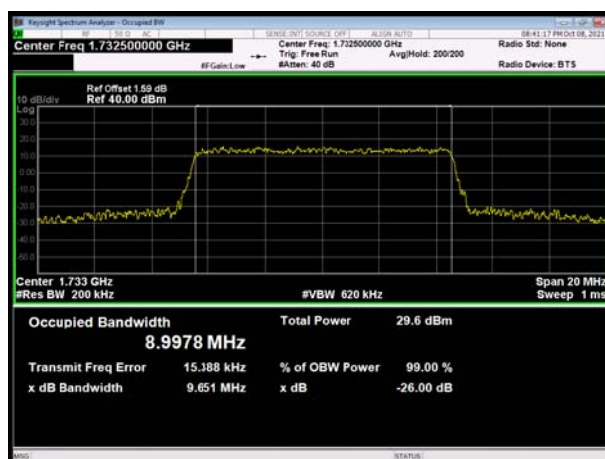
LTE Band 4 16QAM 10MHz CH-Low



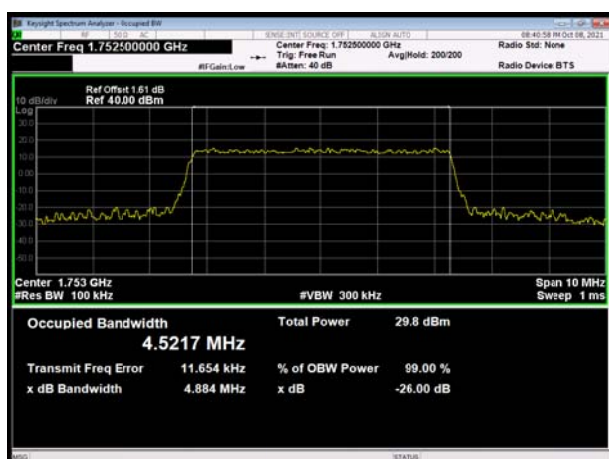
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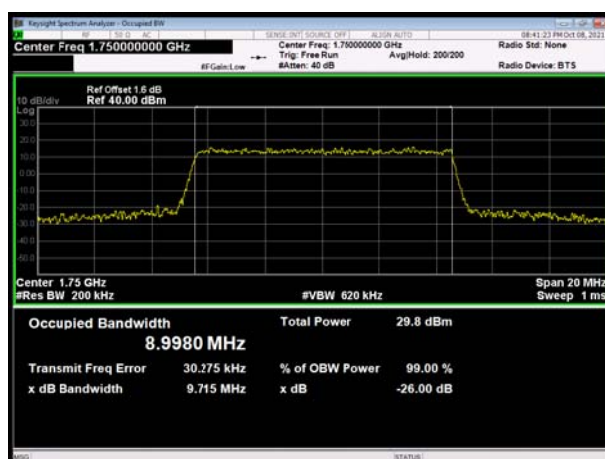
LTE Band 4 16QAM 10MHz CH-Middle



LTE Band 4 16QAM 5MHz CH-High

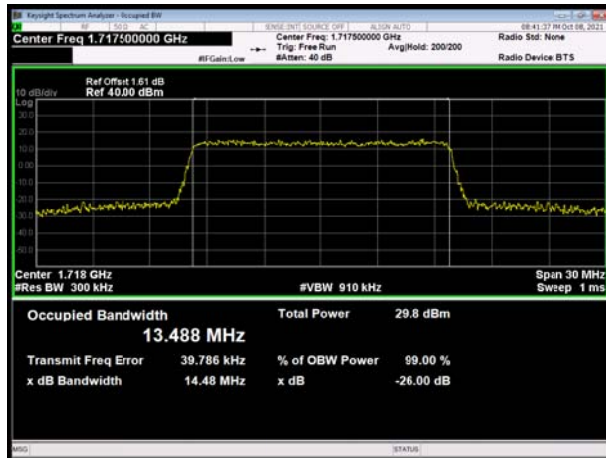


LTE Band 4 16QAM 10MHz CH-High

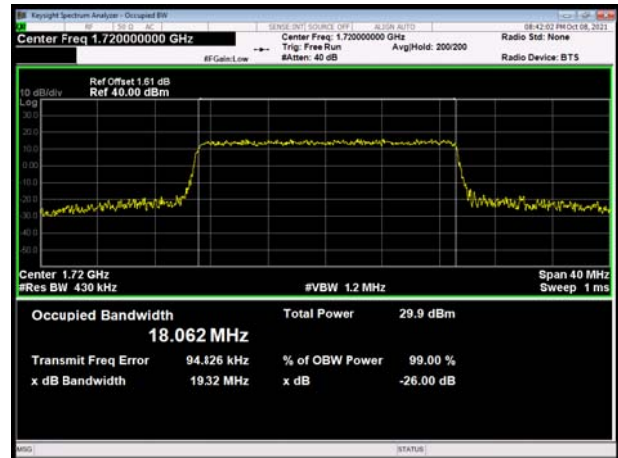




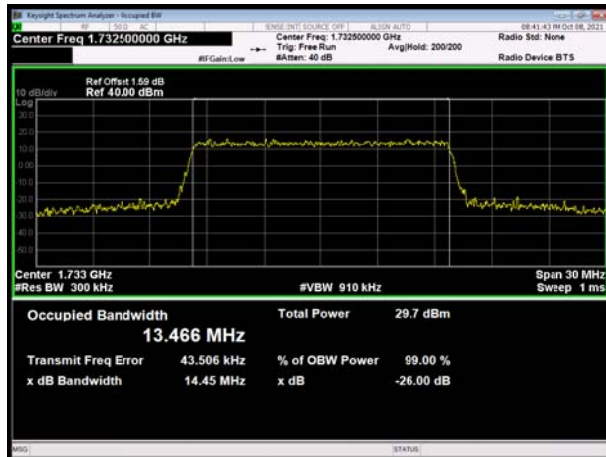
LTE Band 4 16QAM 15MHz CH-Low



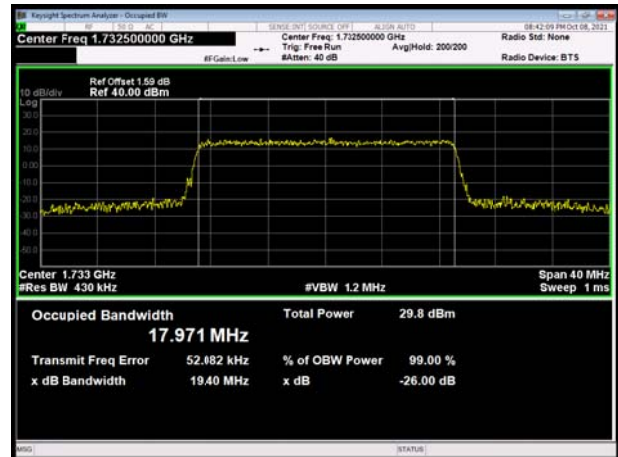
LTE Band 4 16QAM 20MHz CH-Low



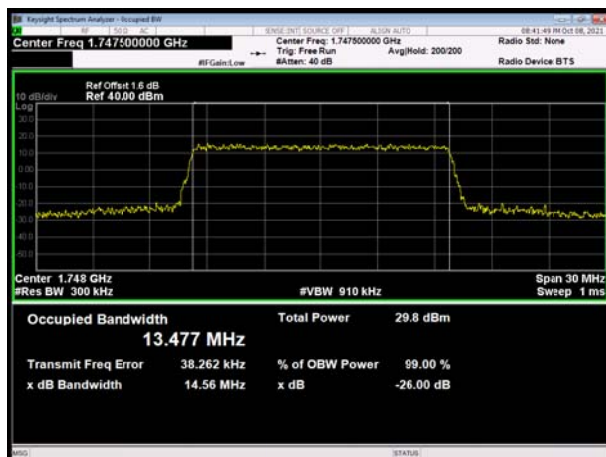
LTE Band 4 16QAM 15MHz CH-Middle



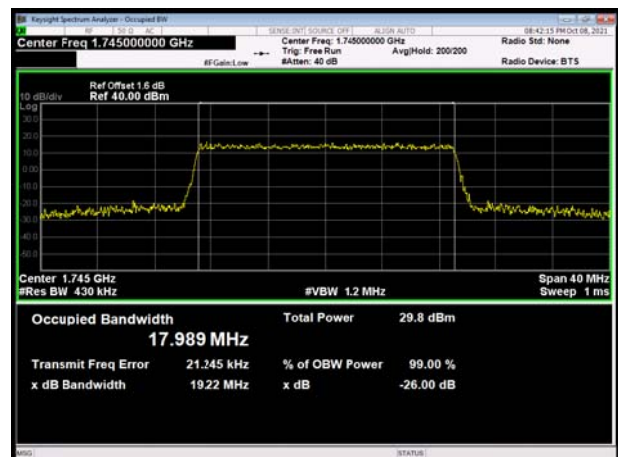
LTE Band 4 16QAM 20MHz CH-Middle



LTE Band 4 16QAM 15MHz CH-High

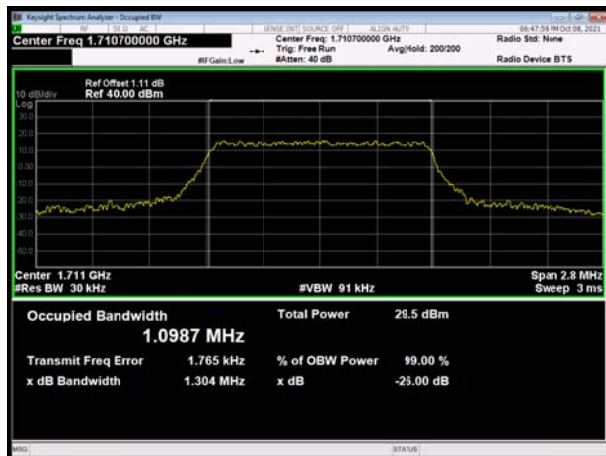


LTE Band 4 16QAM 20MHz CH-High

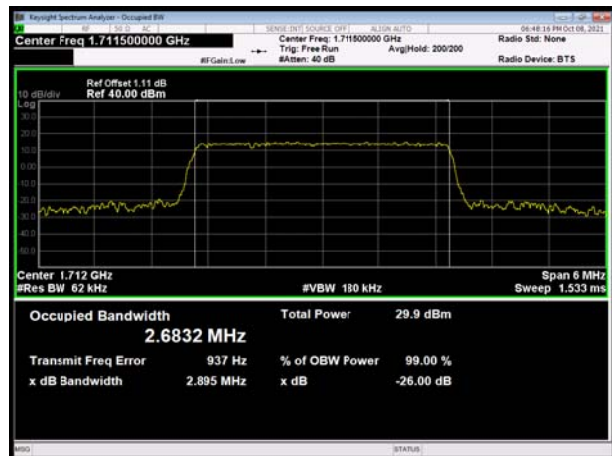




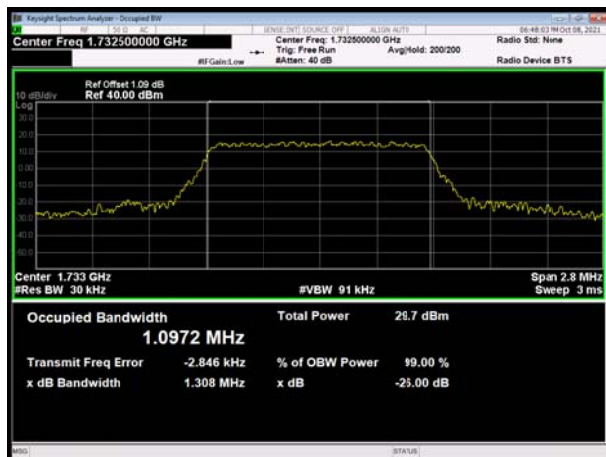
LTE Band 4 1.4MHz 64QAM CH-Low



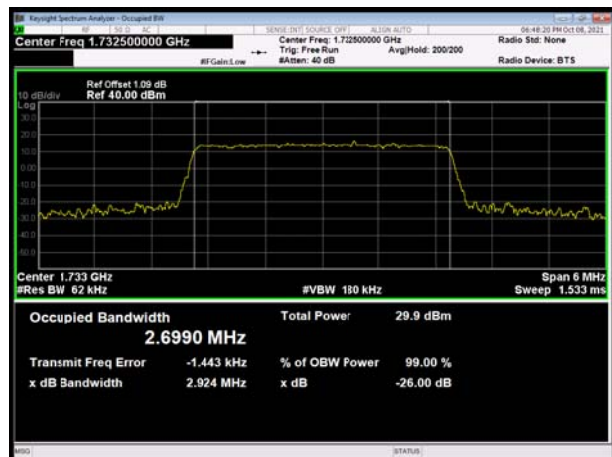
LTE Band 4 3MHz 64QAM CH-Low



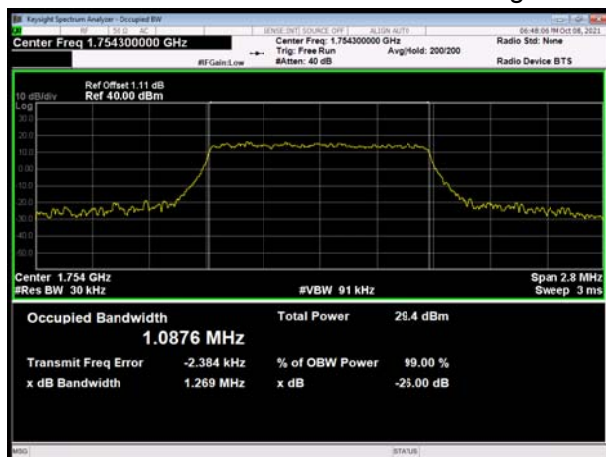
LTE Band 4 1.4MHz 64QAM CH-Middle



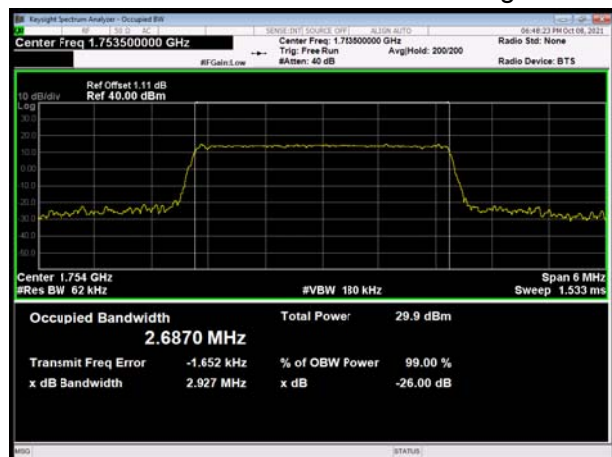
LTE Band 4 3MHz 64QAM CH-Middle



LTE Band 4 1.4MHz 64QAM CH-High

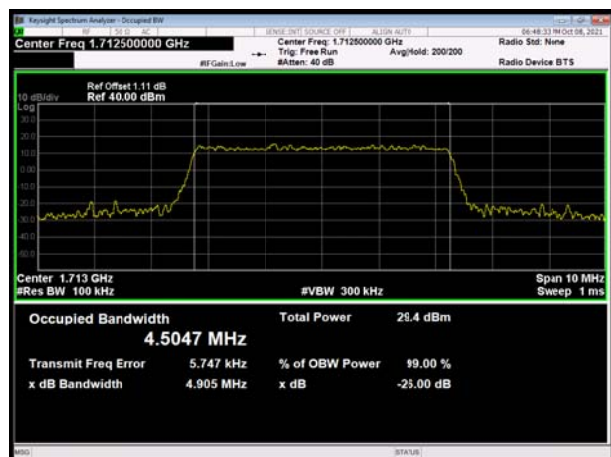


LTE Band 4 3MHz 64QAM CH-High

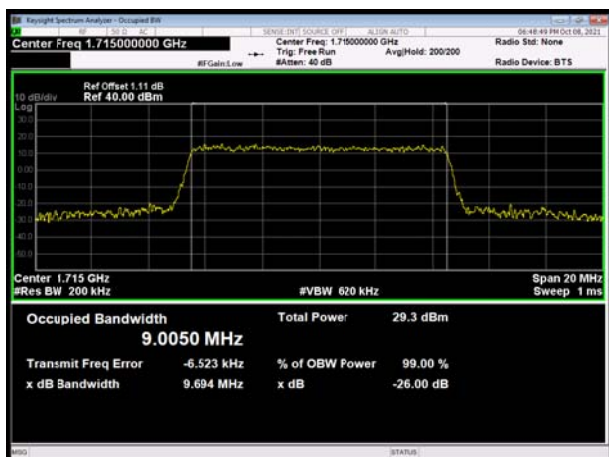




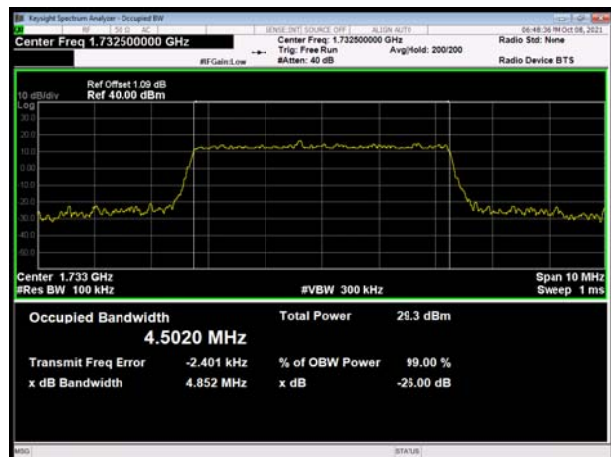
LTE Band 4 5MHz 64QAM CH-Low



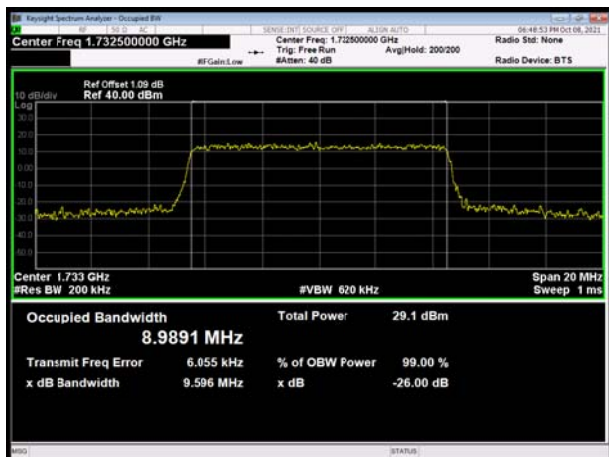
LTE Band 4 10MHz 64QAM CH-Low



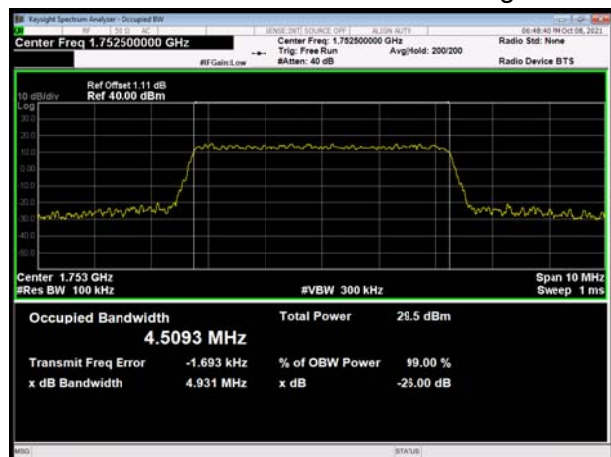
LTE Band 4 5MHz 64QAM CH-Middle



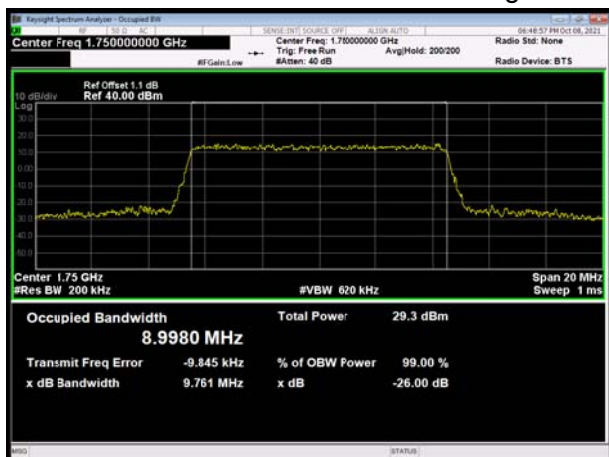
LTE Band 4 10MHz 64QAM CH-Middle



LTE Band 4 5MHz 64QAM CH-High

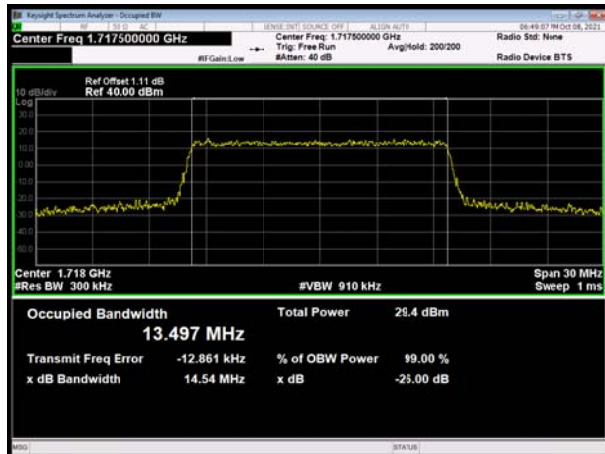


LTE Band 4 10MHz 64QAM CH-High

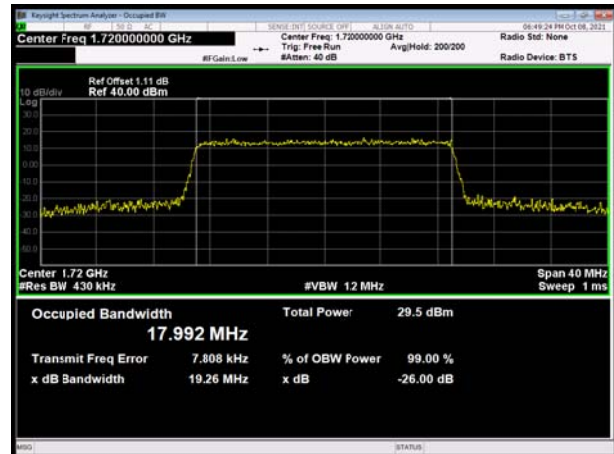




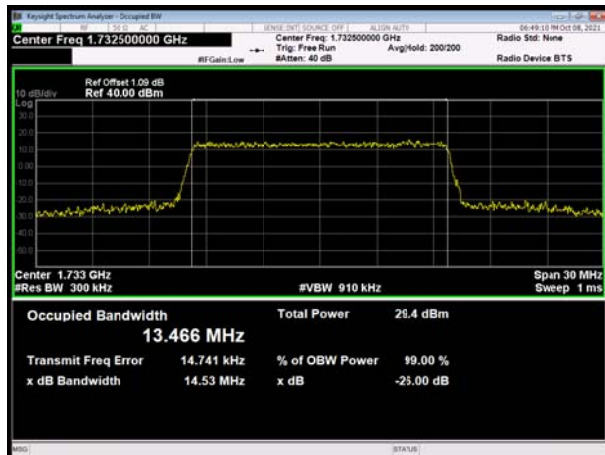
LTE Band 4 15MHz 64QAM CH-Low



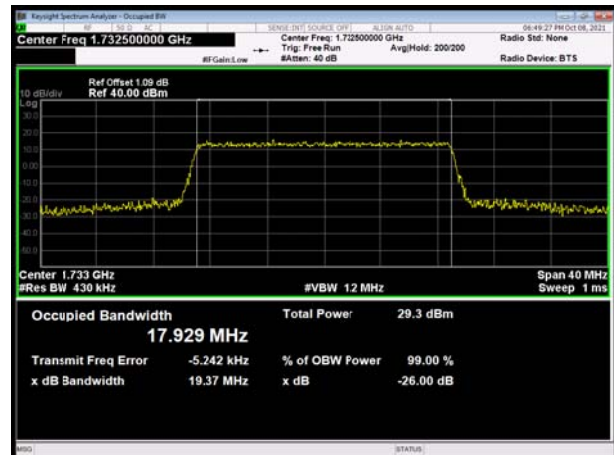
LTE Band 4 20MHz 64QAM CH-Low



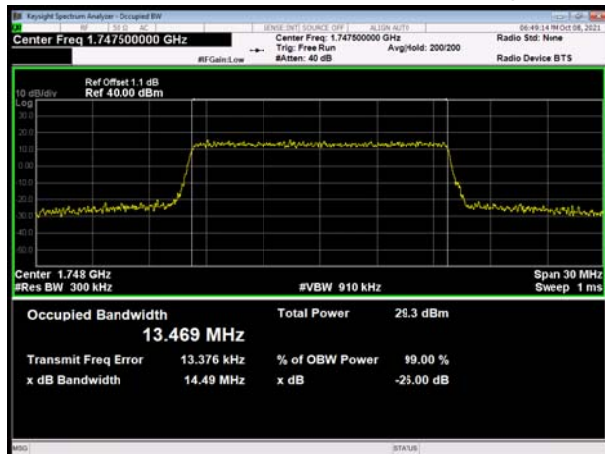
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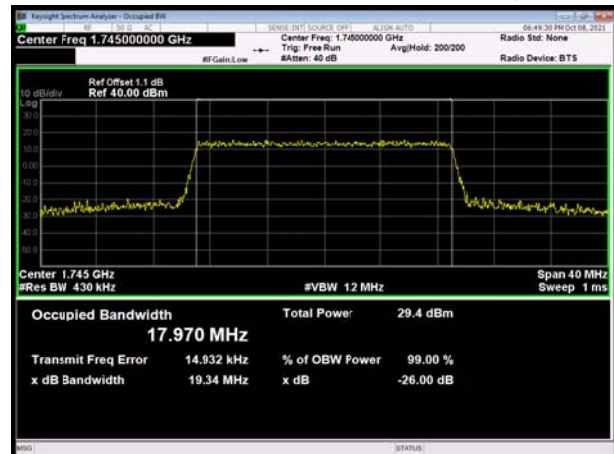
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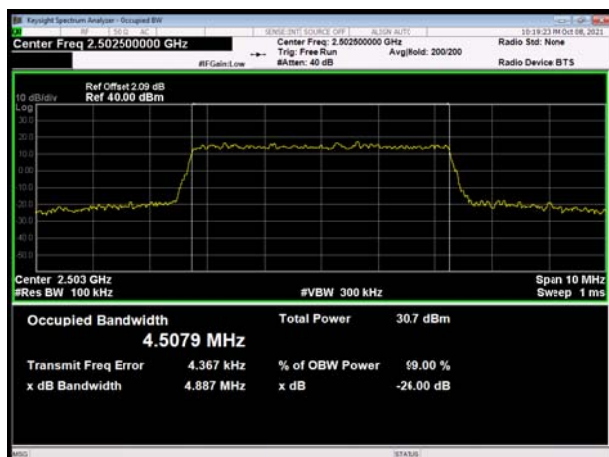
LTE Band 4 15MHz 64QAM CH-High



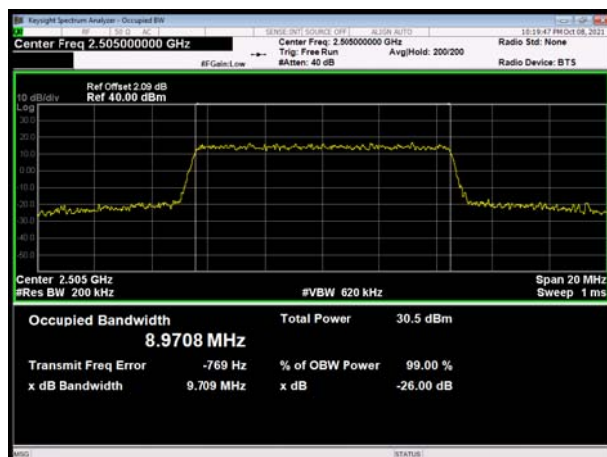
LTE Band 4 20MHz 64QAM CH-High



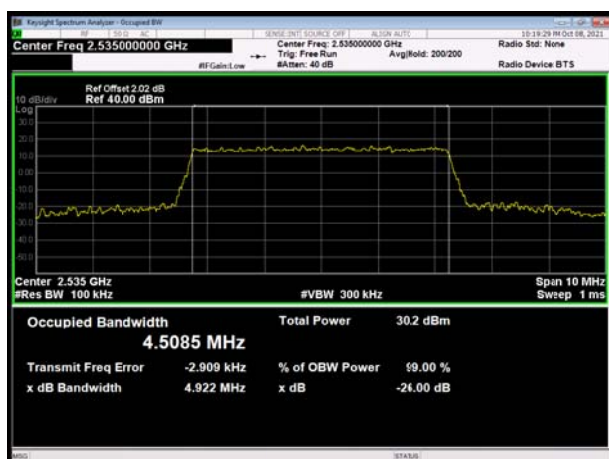
LTE Band 7 QPSK 5MHz CH-Low



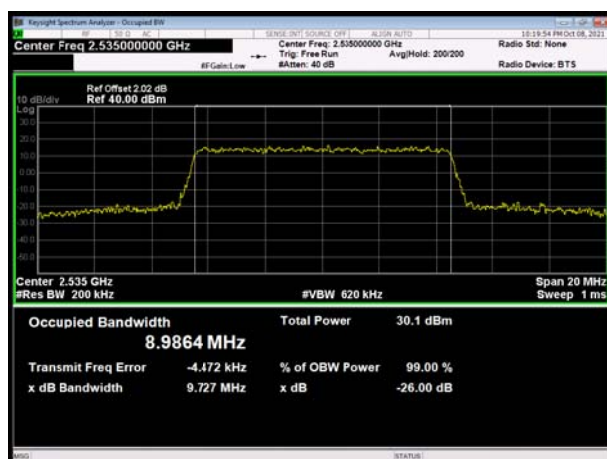
LTE Band 7 QPSK 10MHz CH-Low



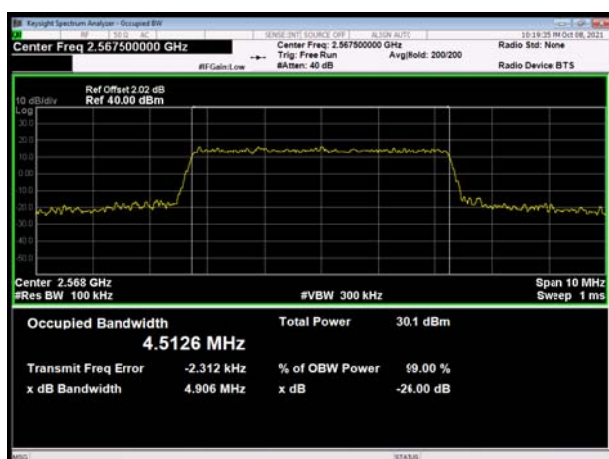
LTE Band 7 QPSK 5MHz CH-Middle



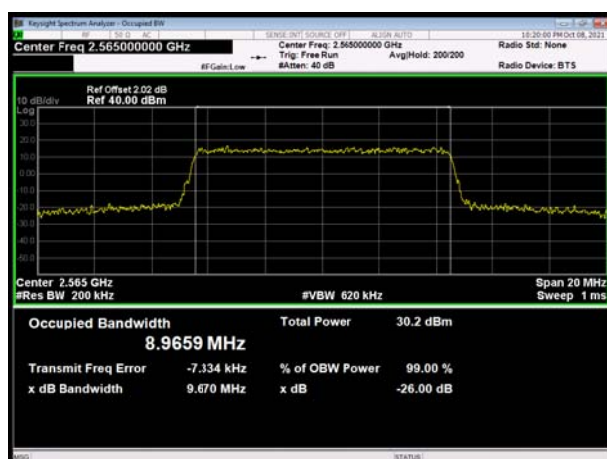
LTE Band 7 QPSK 10MHz CH-Middle



LTE Band 7 QPSK 5MHz CH-High

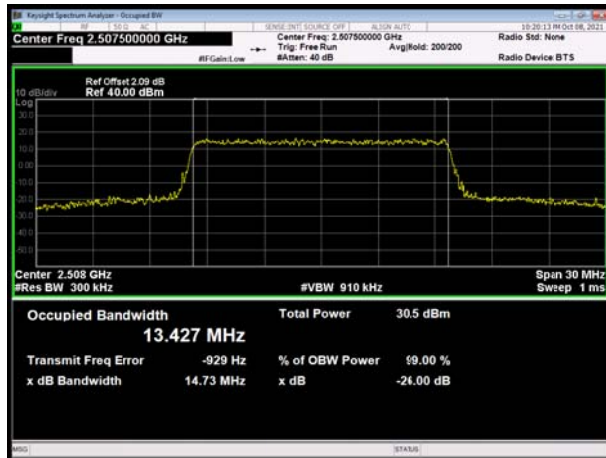


LTE Band 7 QPSK 10MHz CH-High

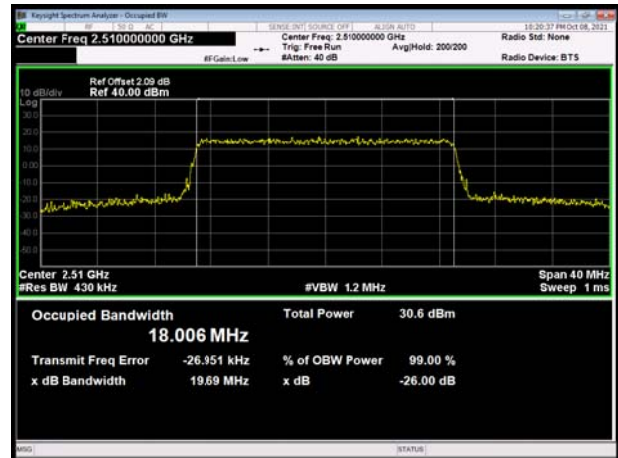




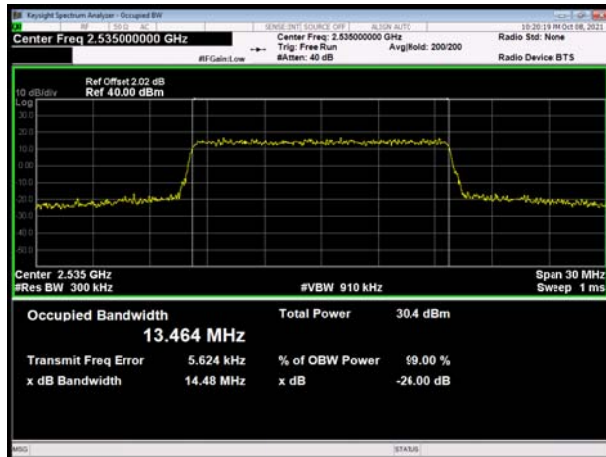
LTE Band 7 QPSK 15MHz CH-Low



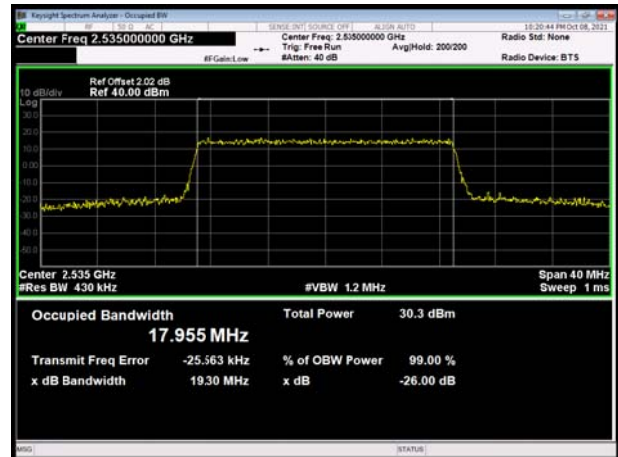
LTE Band 7 QPSK 20MHz CH-Low



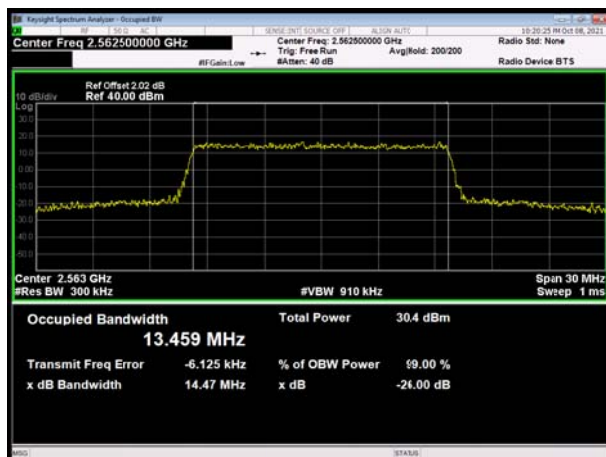
LTE Band 7 QPSK 15MHz CH-Middle



LTE Band 7 QPSK 20MHz CH-Middle



LTE Band 7 QPSK 15MHz CH-High

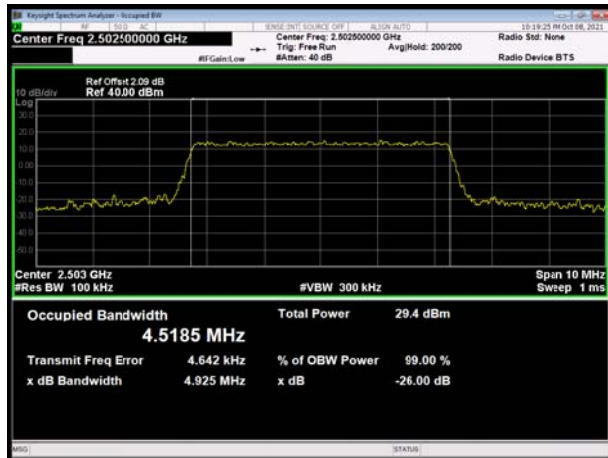


LTE Band 7 QPSK 20MHz CH-High

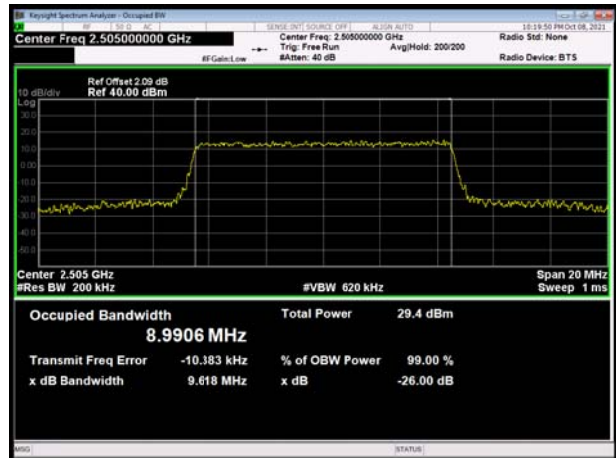




LTE Band 7 16QAM 5MHz CH-Low



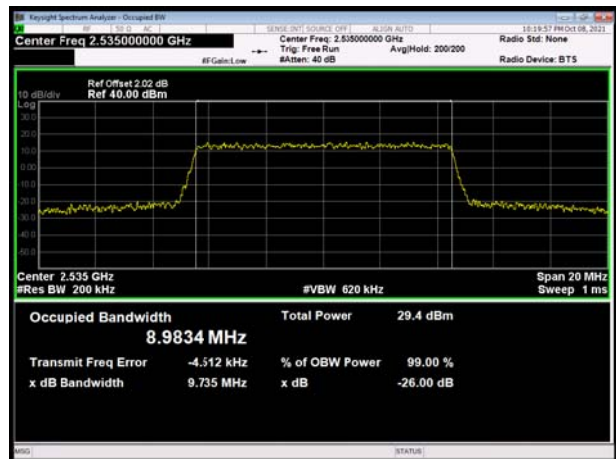
LTE Band 7 16QAM 10MHz CH-Low



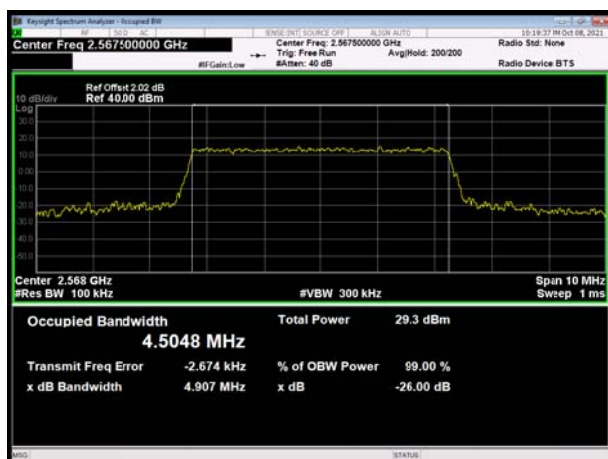
LTE Band 7 16QAM 5MHz CH-Middle



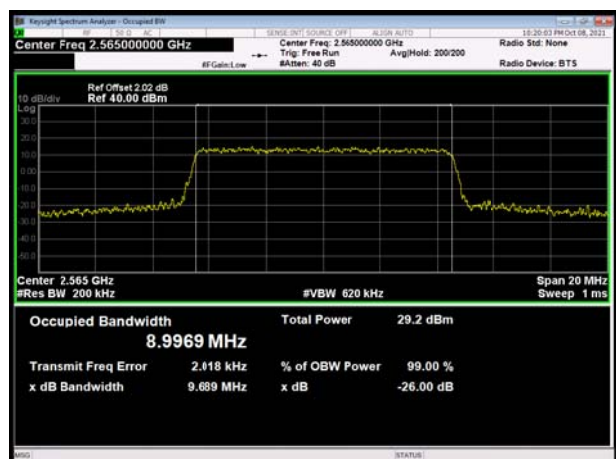
LTE Band 7 16QAM 10MHz CH-Middle



LTE Band 7 16QAM 5MHz CH-High

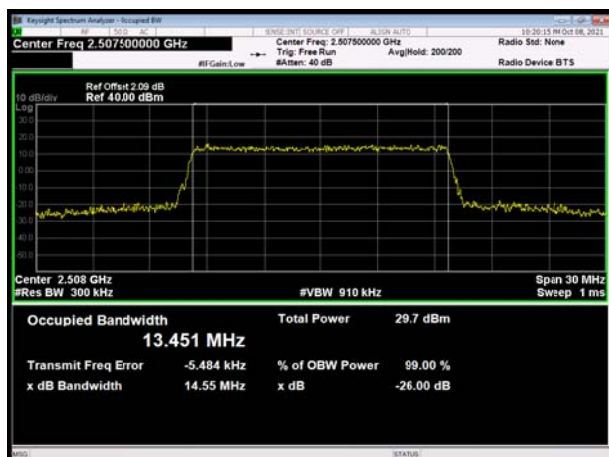


LTE Band 7 16QAM 10MHz CH-High

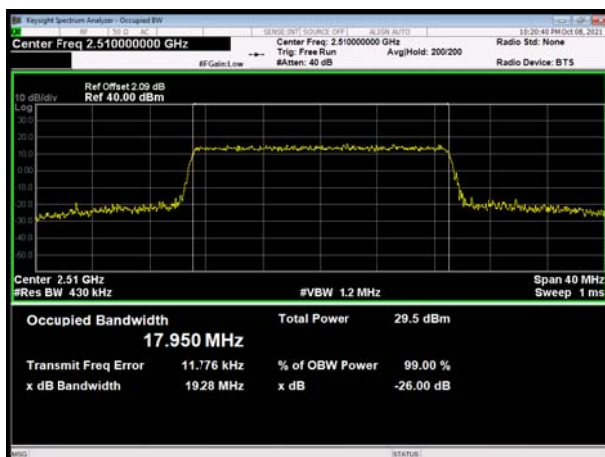




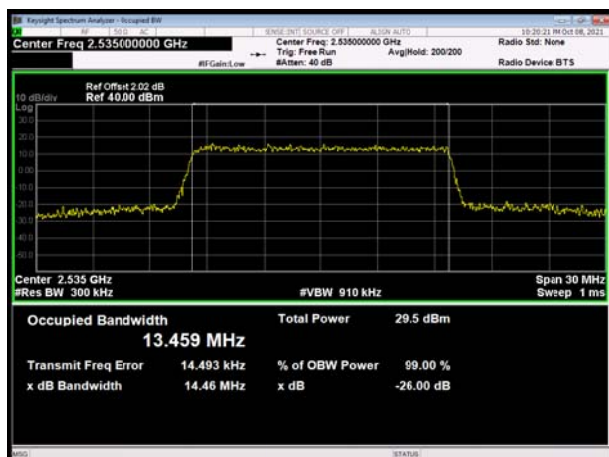
LTE Band 7 16QAM 15MHz CH-Low



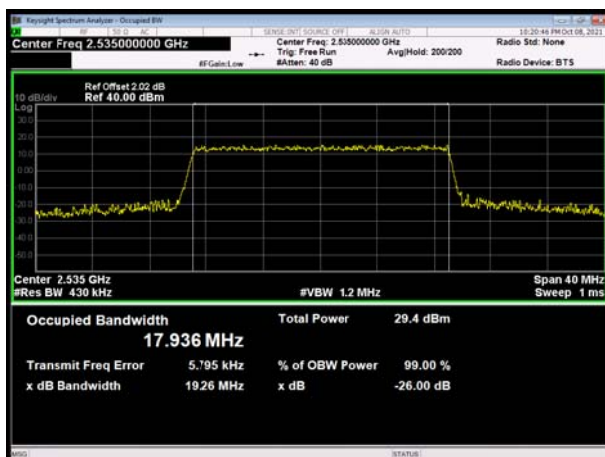
LTE Band 7 16QAM 20MHz CH-Low



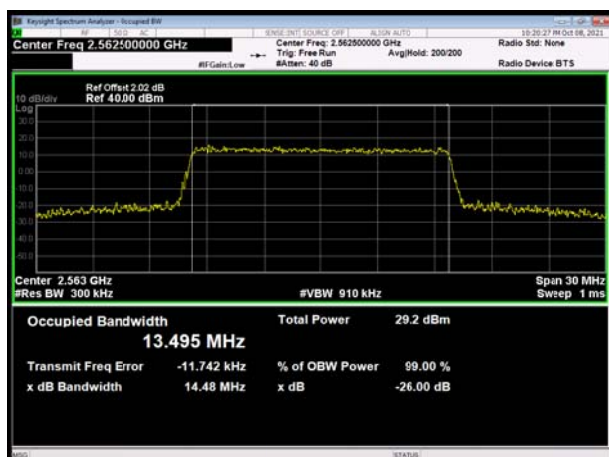
LTE Band 7 16QAM 15MHz CH-Middle



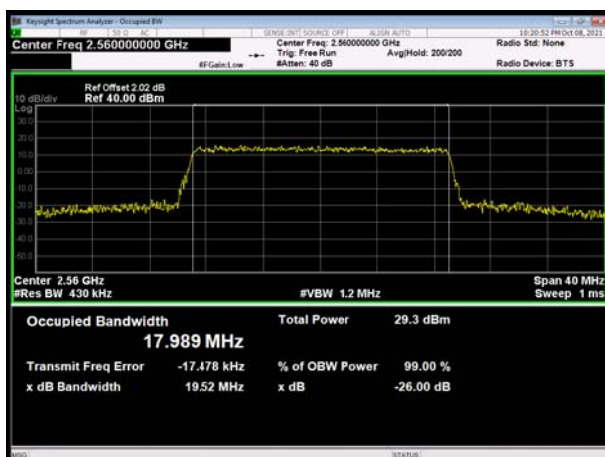
LTE Band 7 16QAM 20MHz CH-Middle



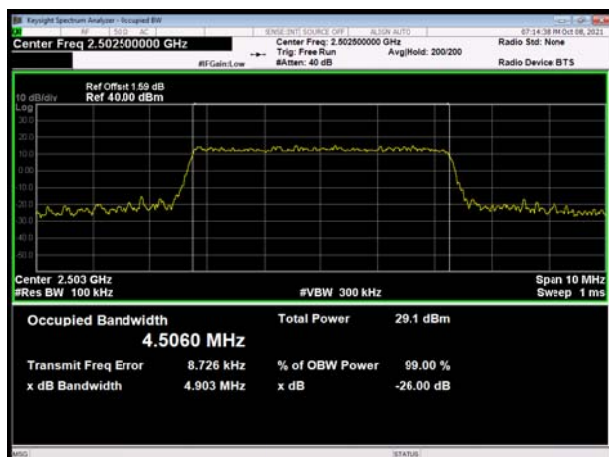
LTE Band 7 16QAM 15MHz CH-High



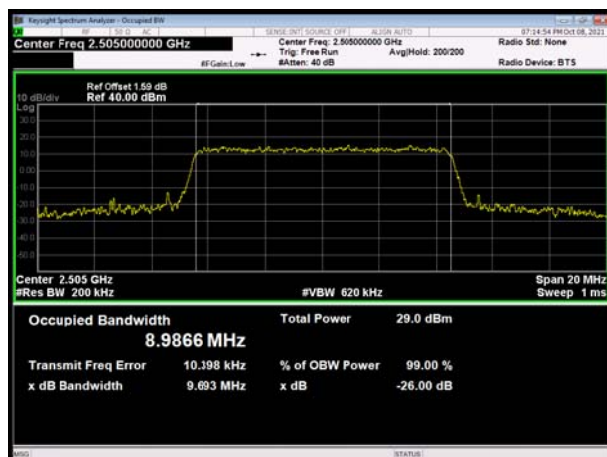
LTE Band 7 16QAM 20MHz CH-High



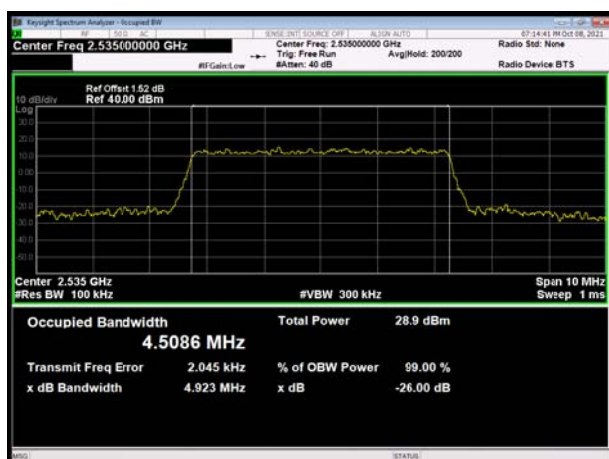
LTE Band 7 64QAM 5MHz CH-Low



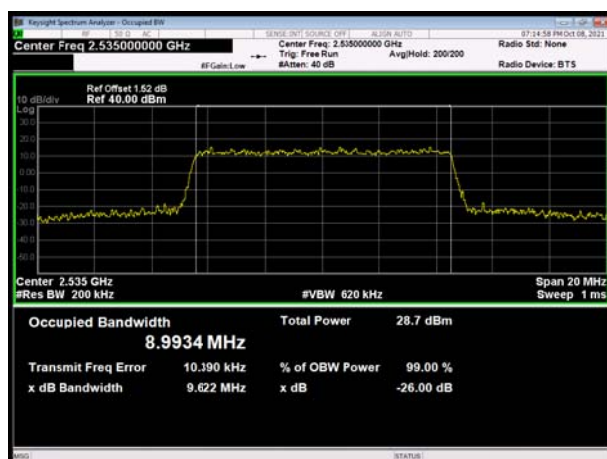
LTE Band 7 64QAM 10MHz CH-Low



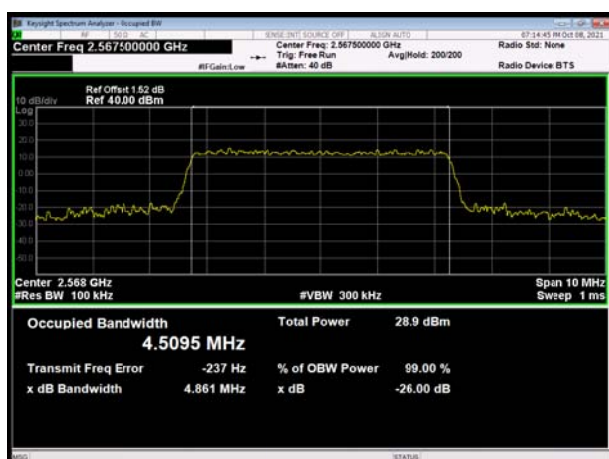
LTE Band 7 64QAM 5MHz CH-Middle



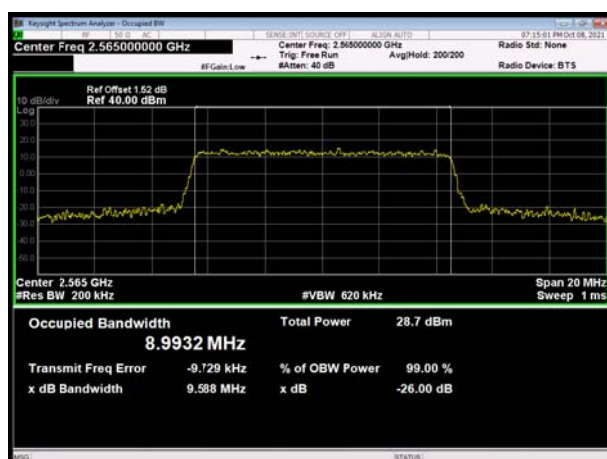
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LTE Band 7 64QAM 5MHz CH-High

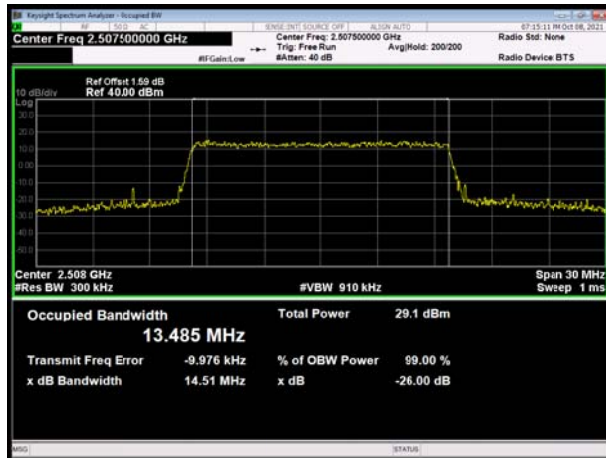


LTE Band 7 64QAM 10MHz CH-High

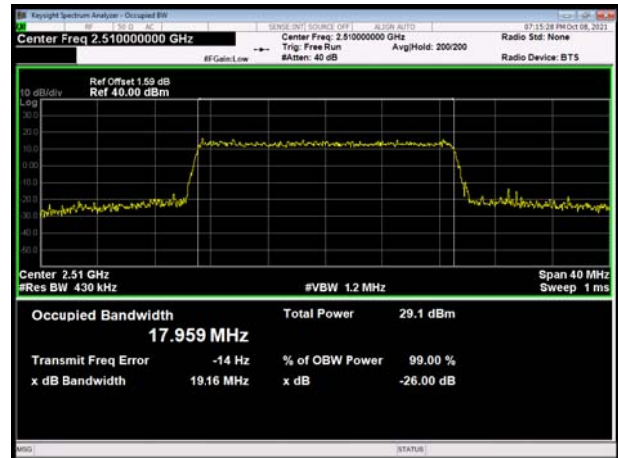




LTE Band 7 64QAM 15MHz CH-Low



LTE Band 7 64QAM 20MHz CH-Low



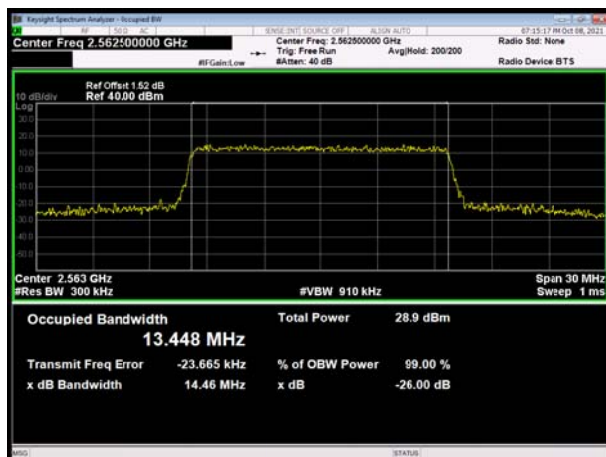
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LTE Band 7 64QAM 20MHz CH-Middle



LTE Band 7 64QAM 15MHz CH-High

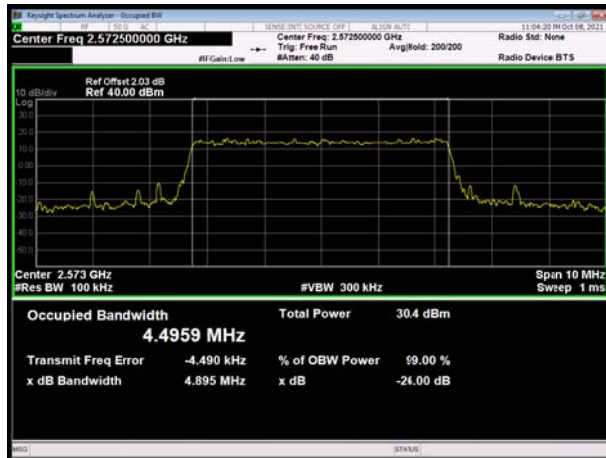


LTE Band 7 64QAM 20MHz CH-High

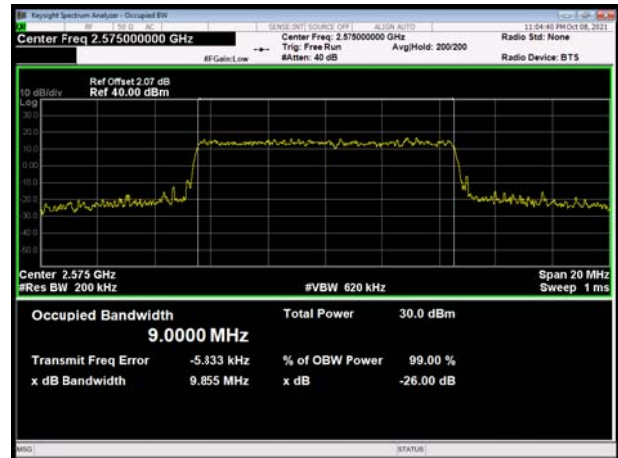




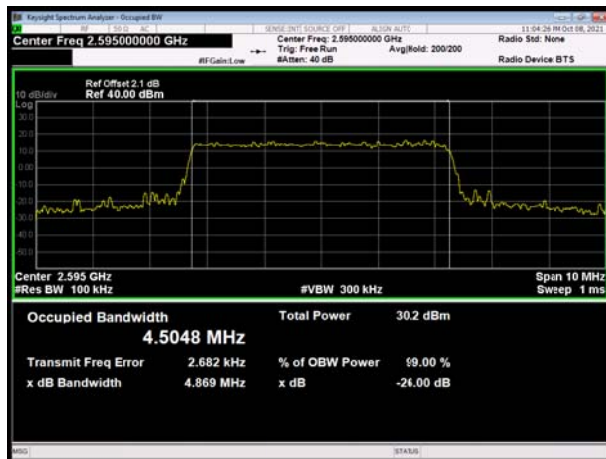
LTE Band 38 QPSK 5MHz CH-Low



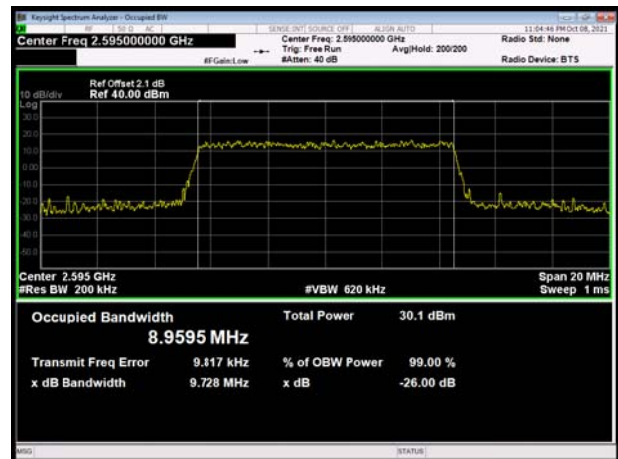
LTE Band 38 QPSK 10MHz CH-Low



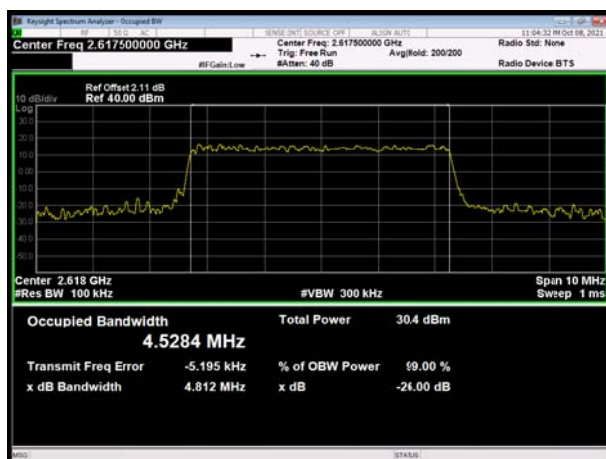
LTE Band 38 QPSK 5MHz CH-Middle



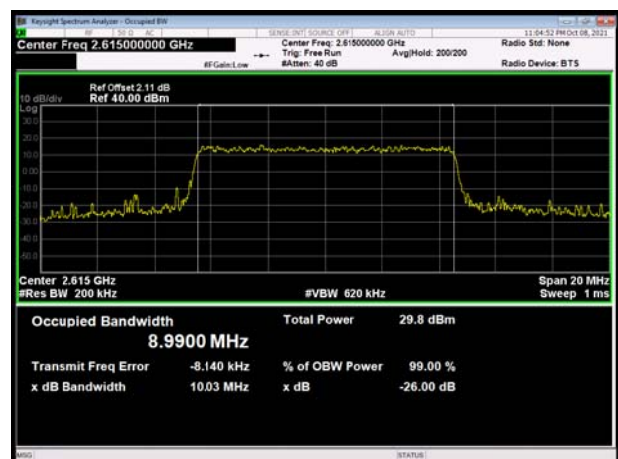
LTE Band 38 QPSK 10MHz CH-Middle



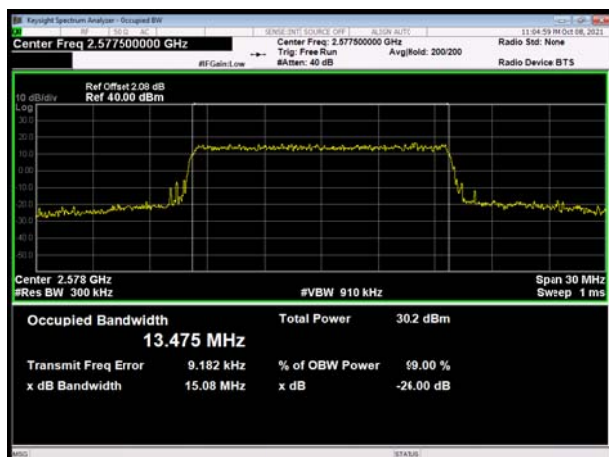
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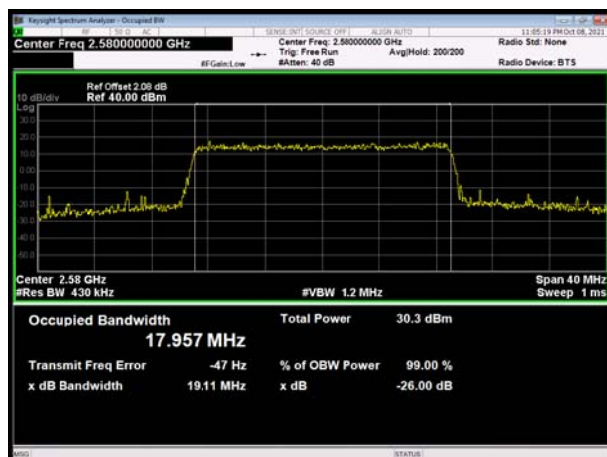
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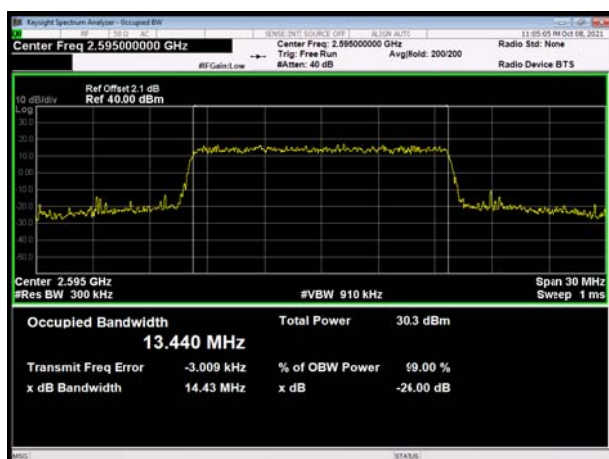
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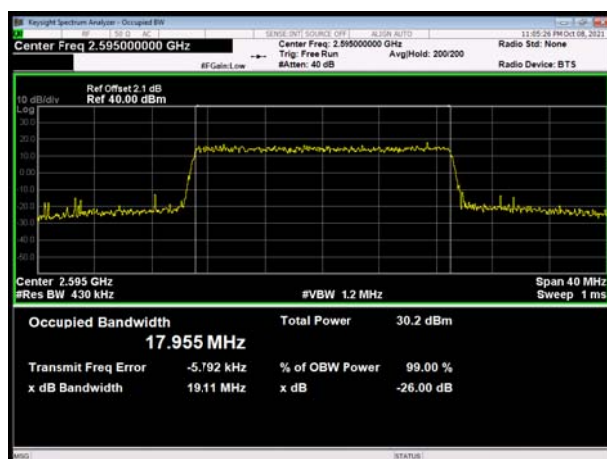
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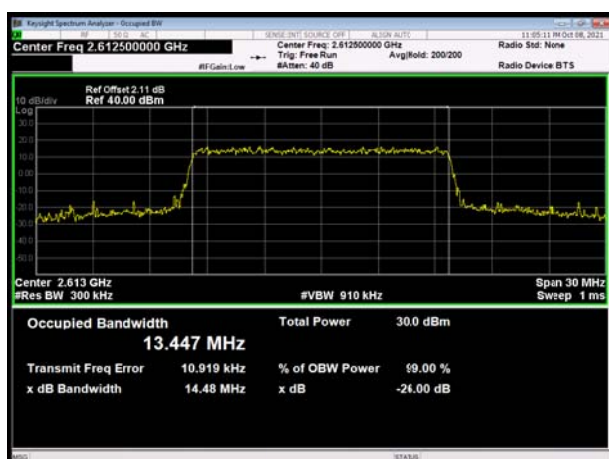
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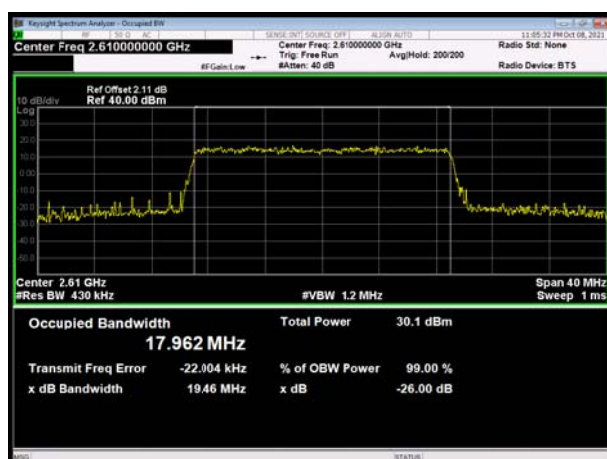
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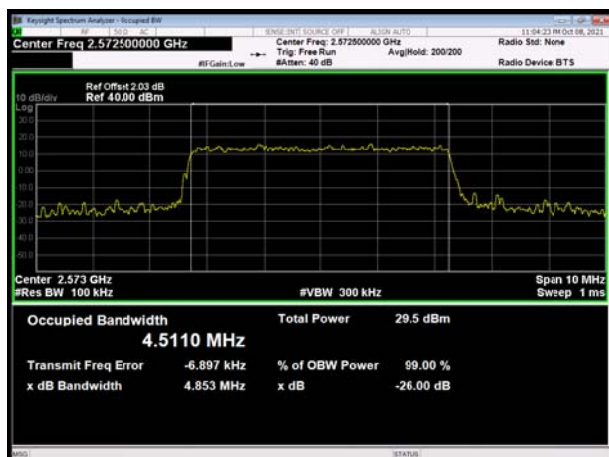
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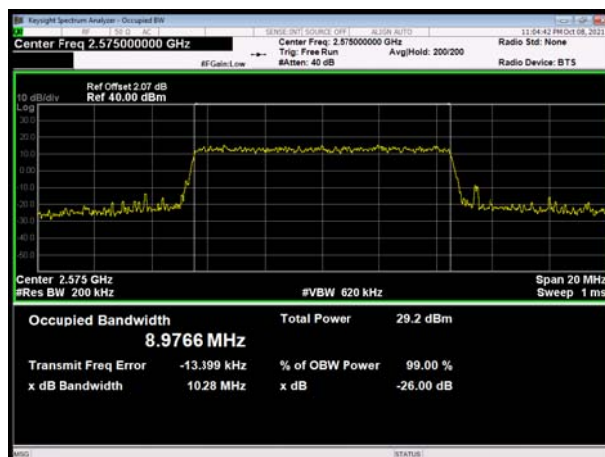
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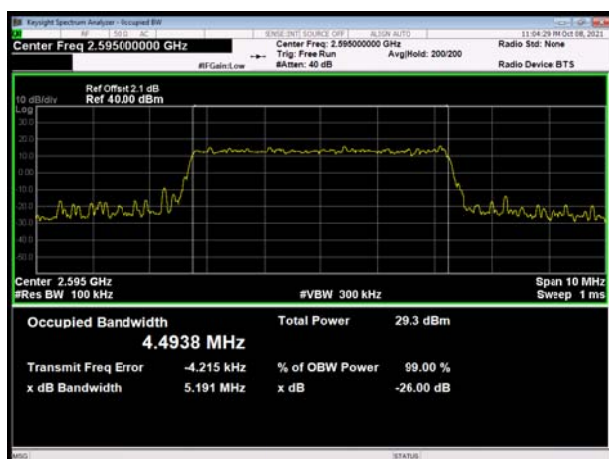
LTE Band 38 16QAM 5MHz CH-Low



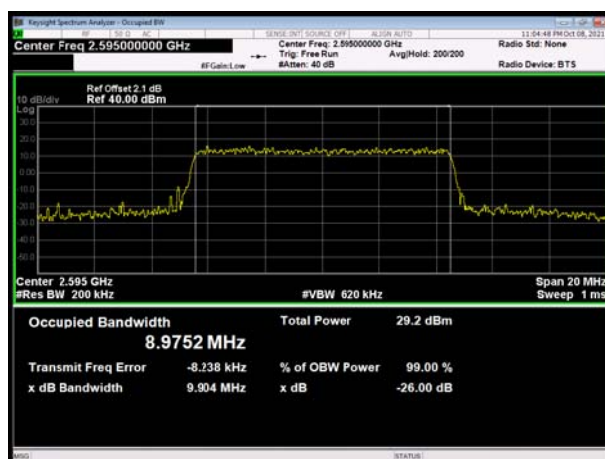
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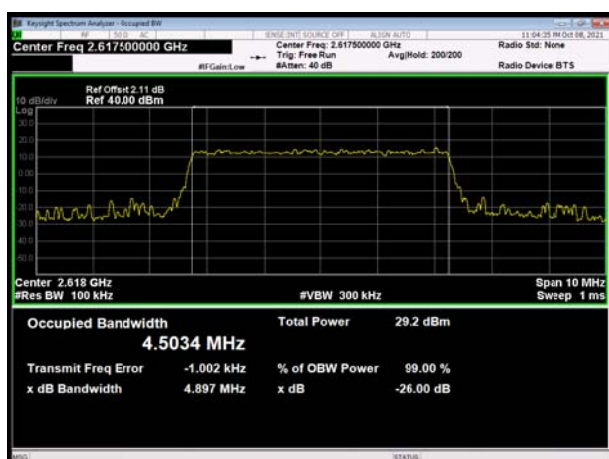
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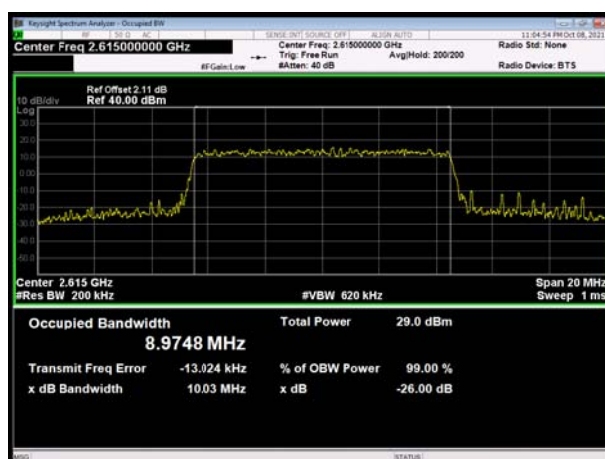
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LTE Band 38 16QAM 5MHz CH-High

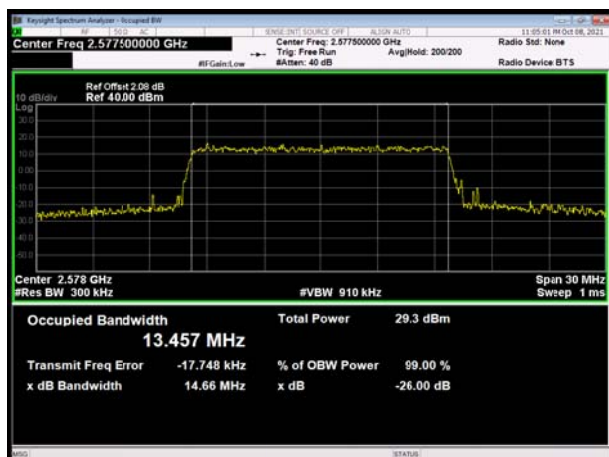


LTE Band 38 16QAM 10MHz CH-High

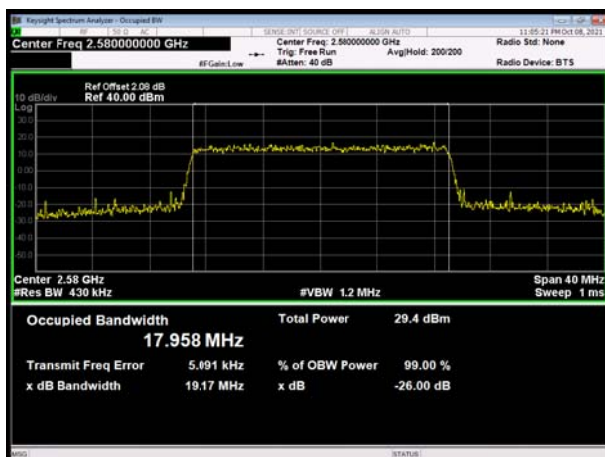




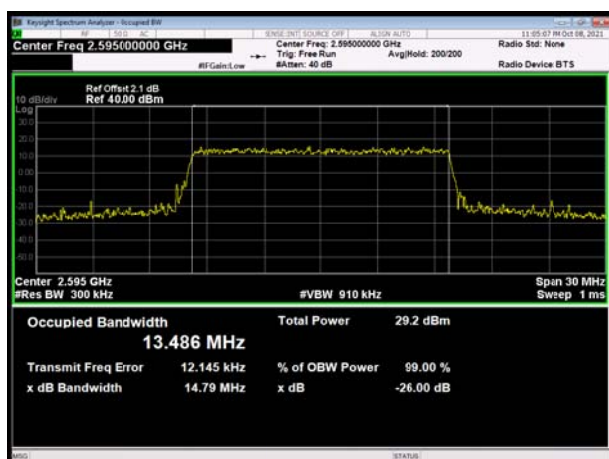
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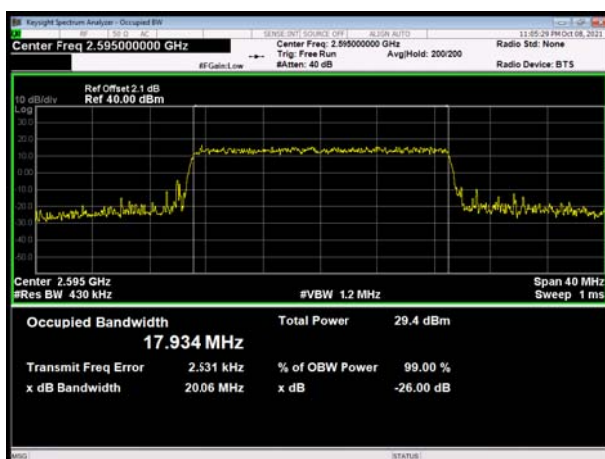
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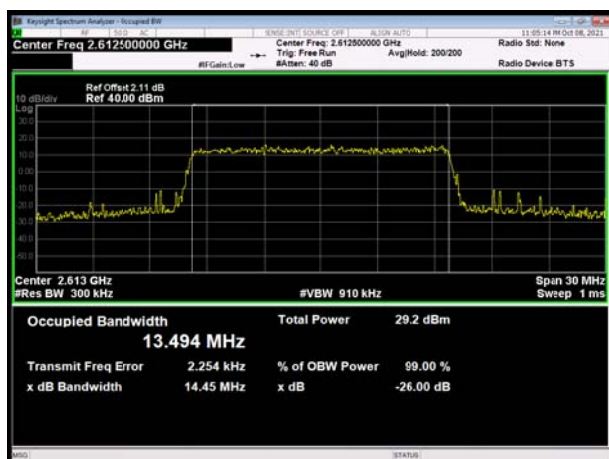
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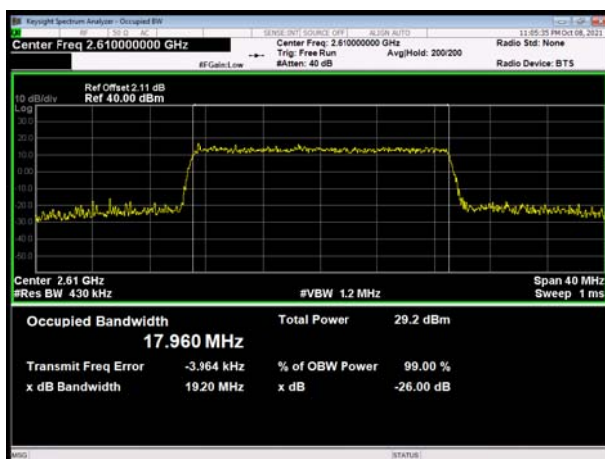
LTE Band 38 16QAM 20MHz CH-Middle



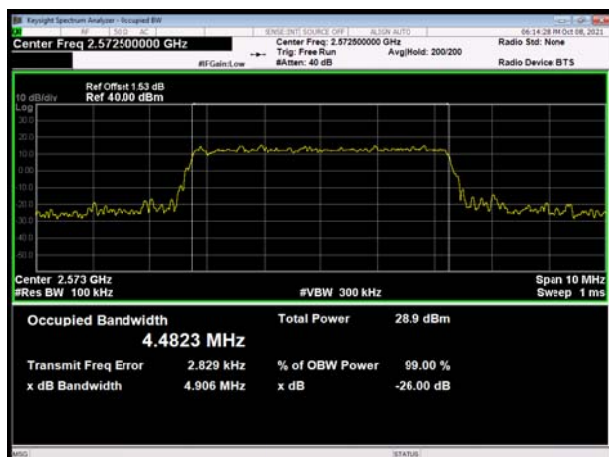
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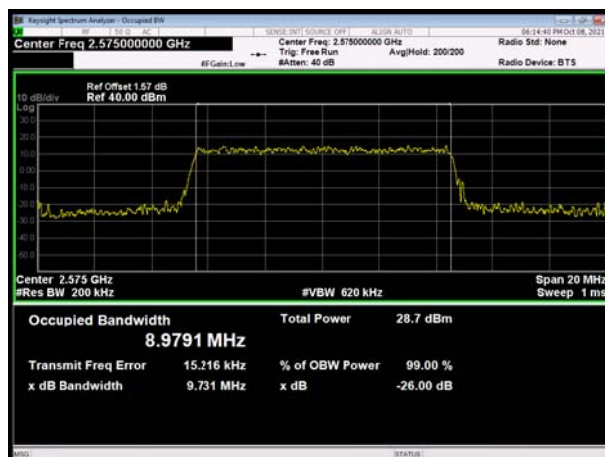
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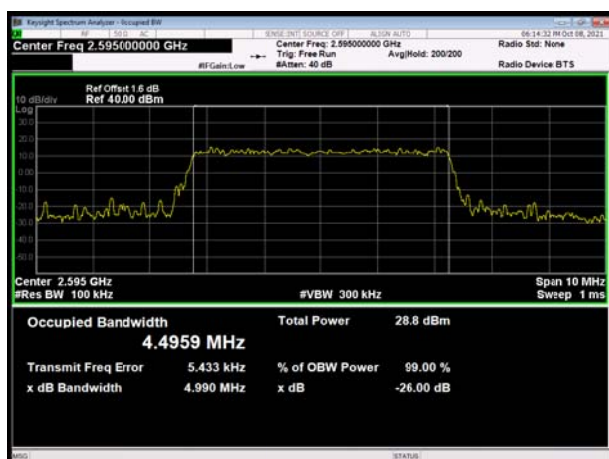
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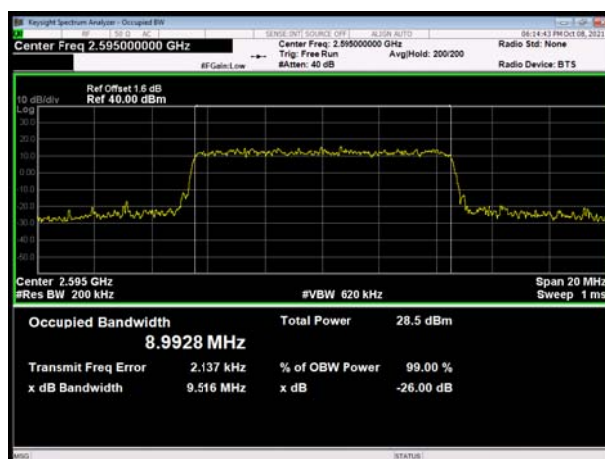
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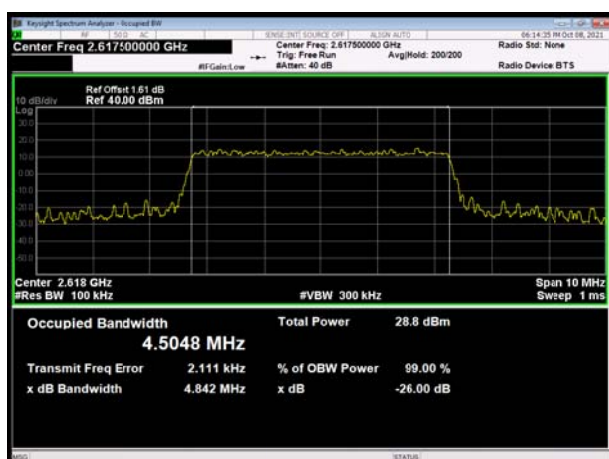
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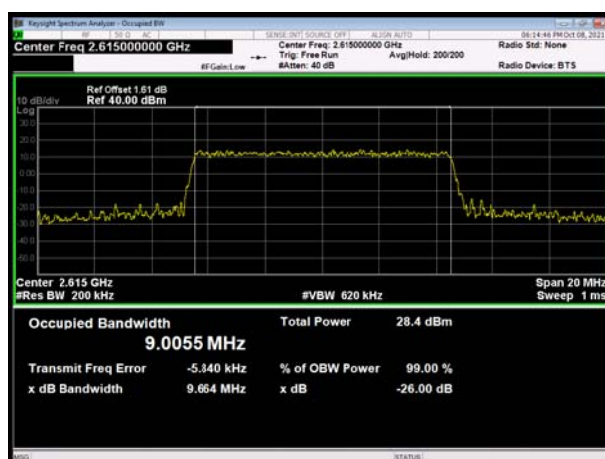
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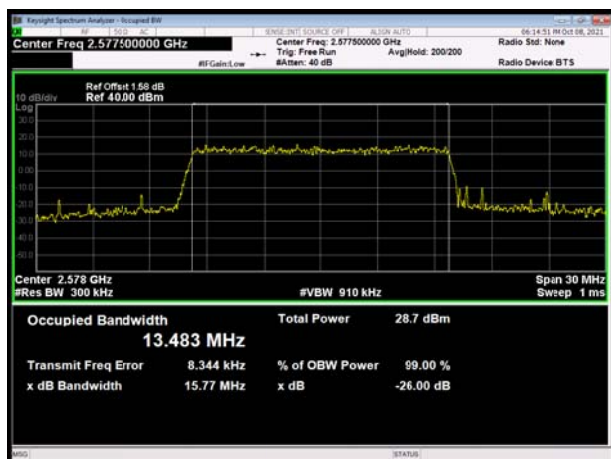


LTE Band 38 64QAM 10MHz CH-High

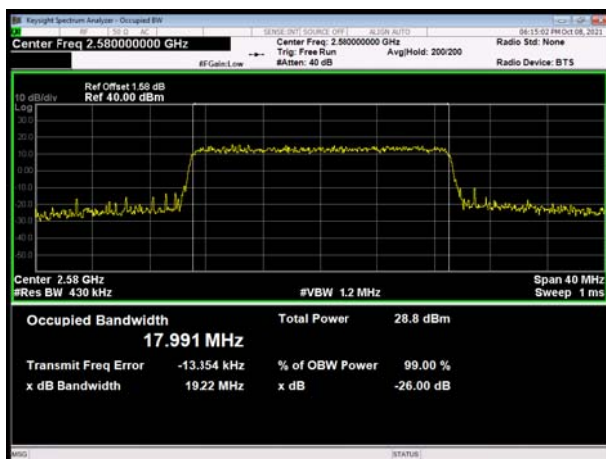




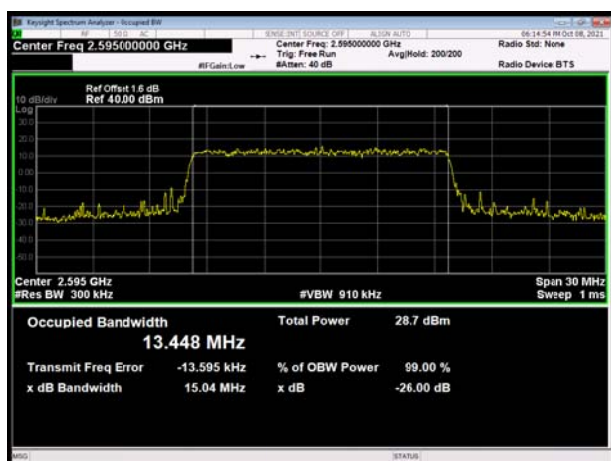
LTE Band 38 64QAM 15MHz CH-Low



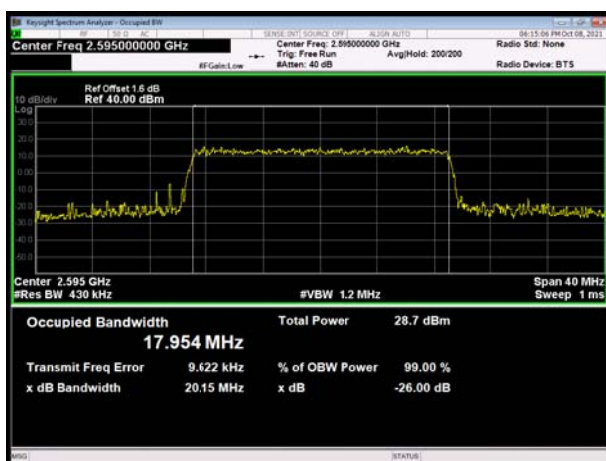
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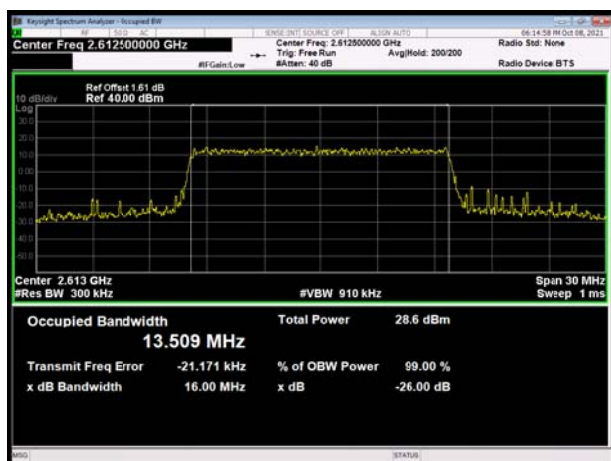
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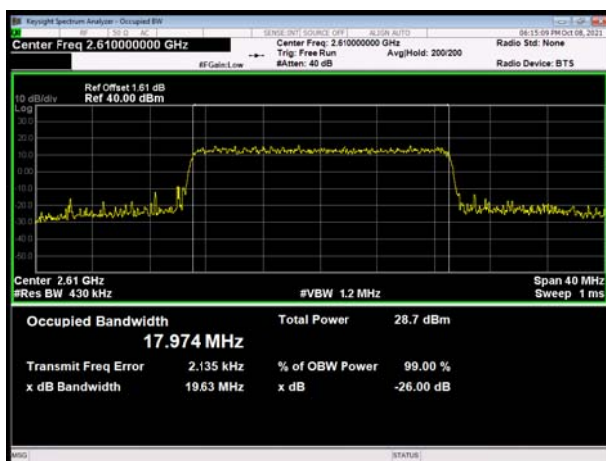
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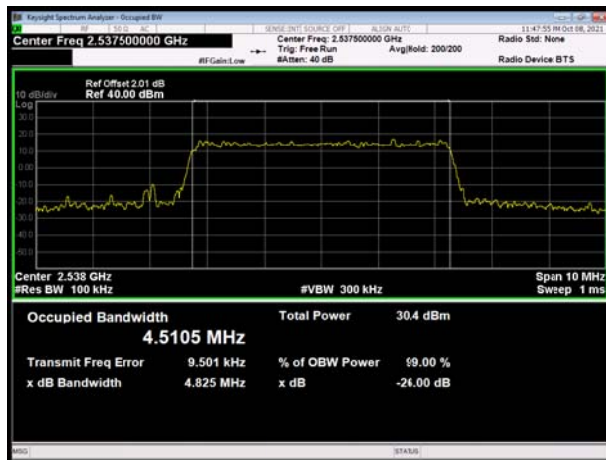


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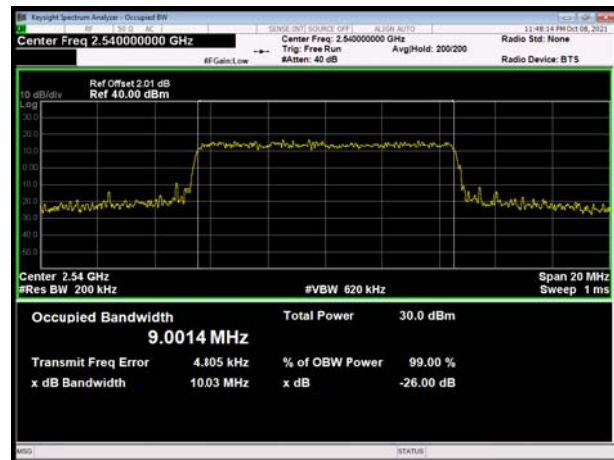




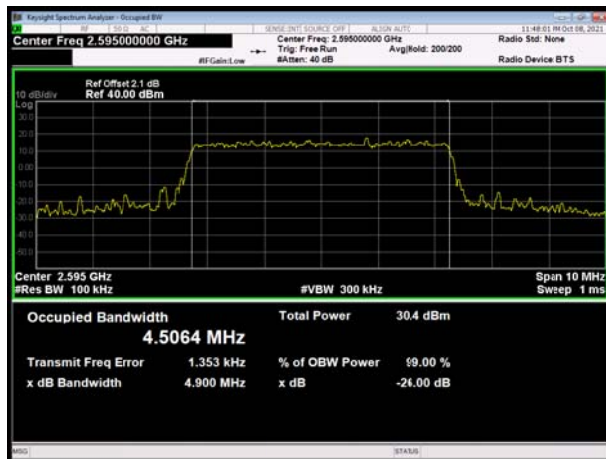
LTE Band 41 QPSK 5MHz CH-Low



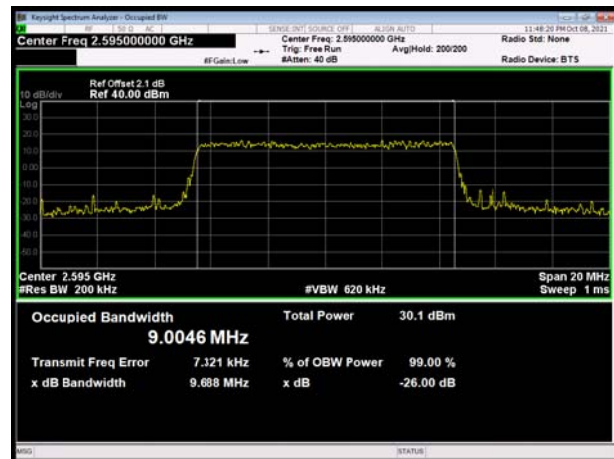
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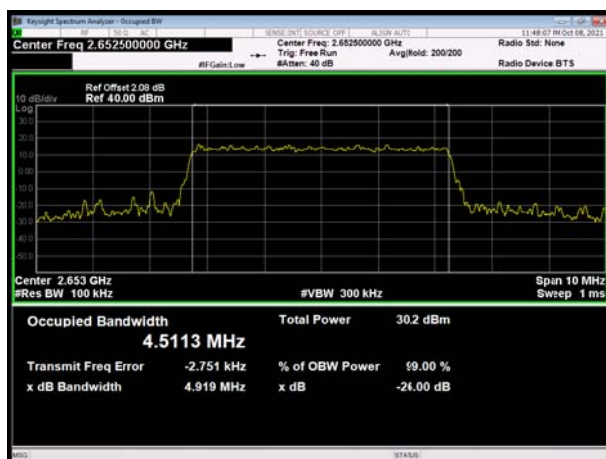
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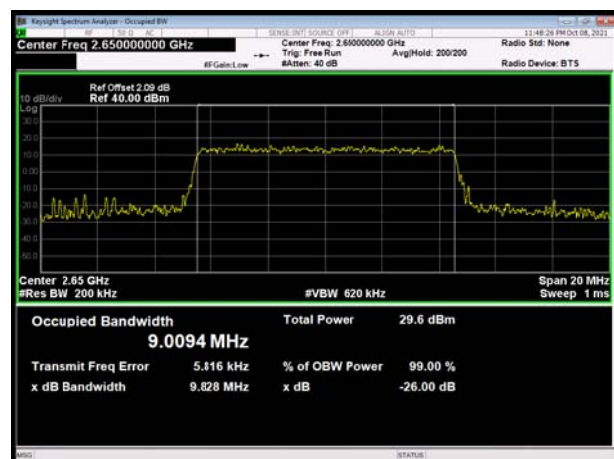
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LTE Band 41 QPSK 5MHz CH-High

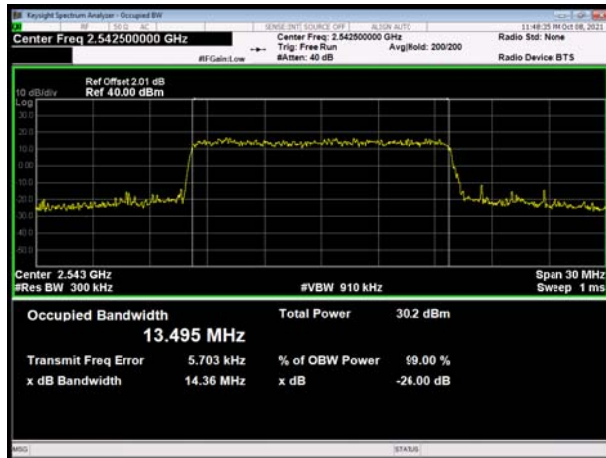


LTE Band 41 QPSK 10MHz CH-High

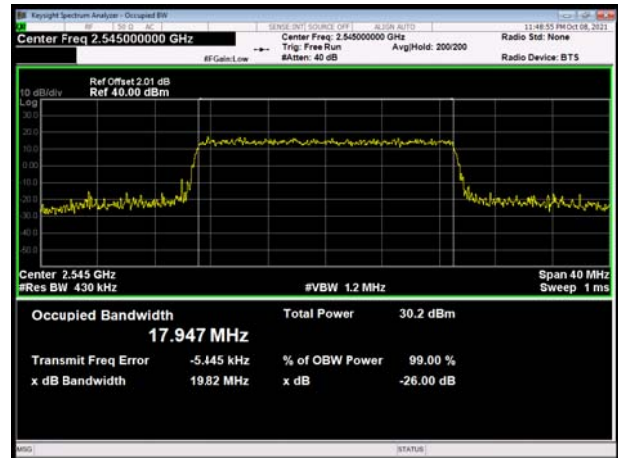




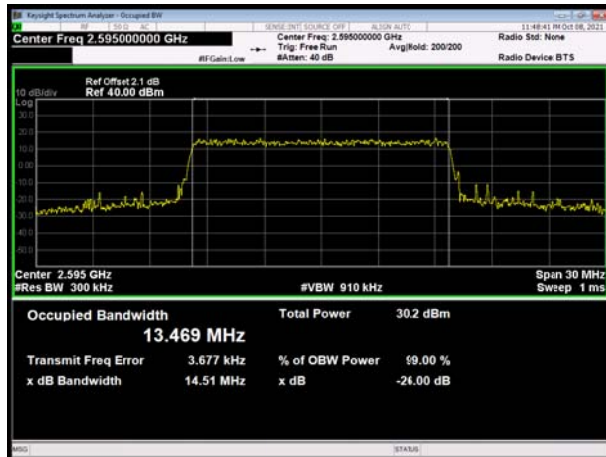
LTE Band 41 QPSK 15MHz CH-Low



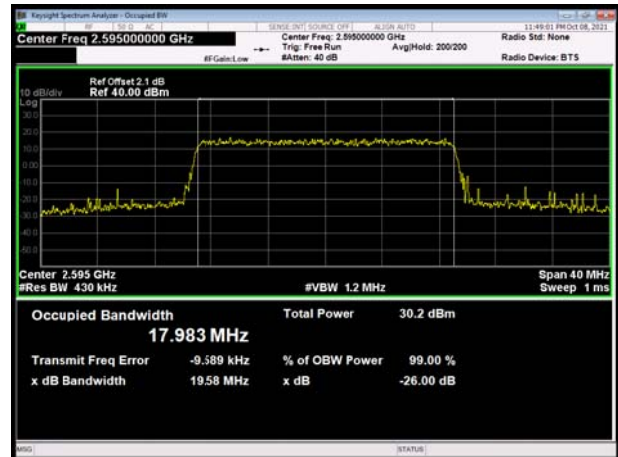
LTE Band 41 QPSK 20MHz CH-Low



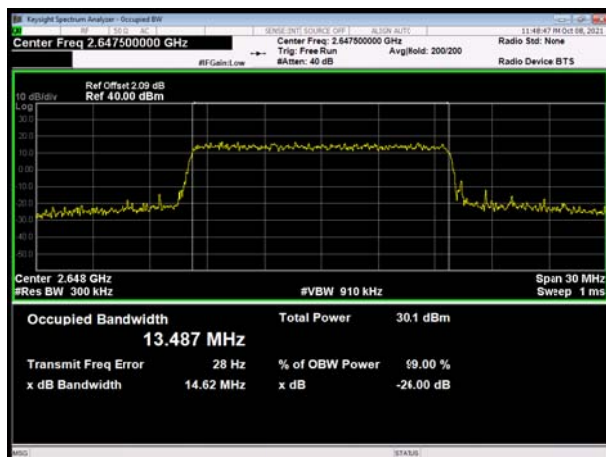
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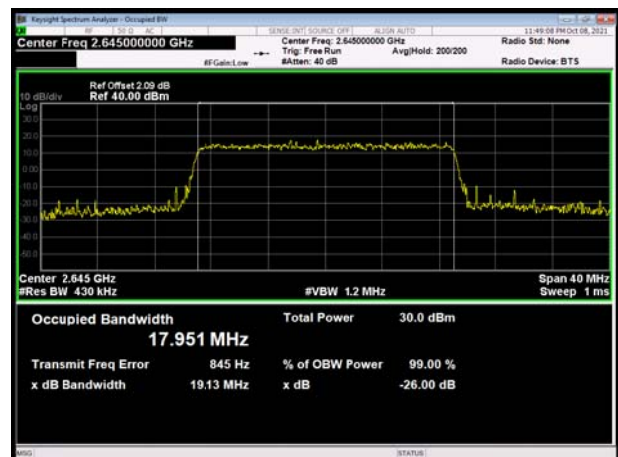
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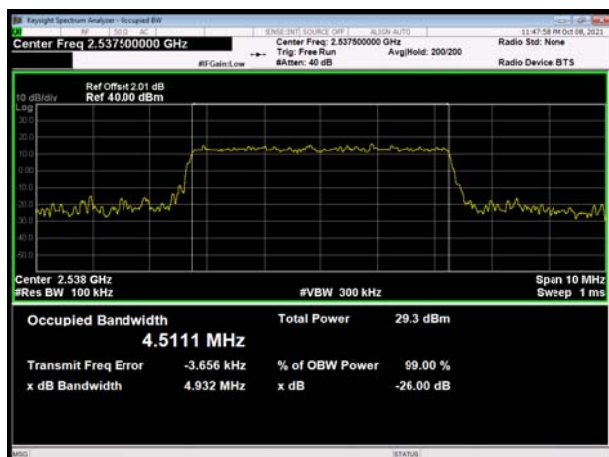
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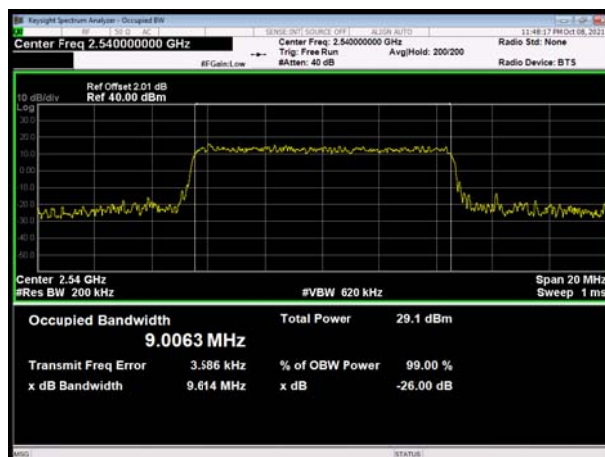
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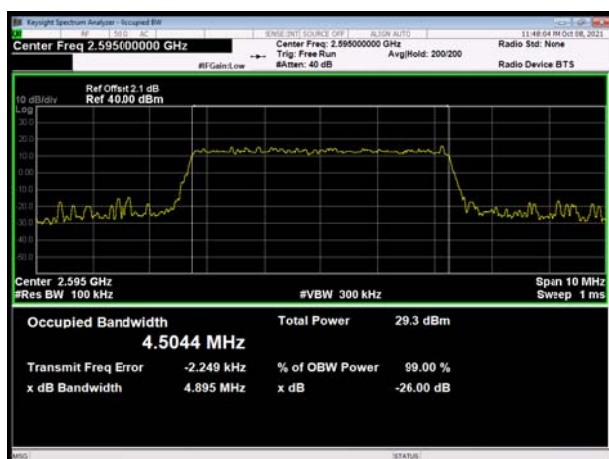
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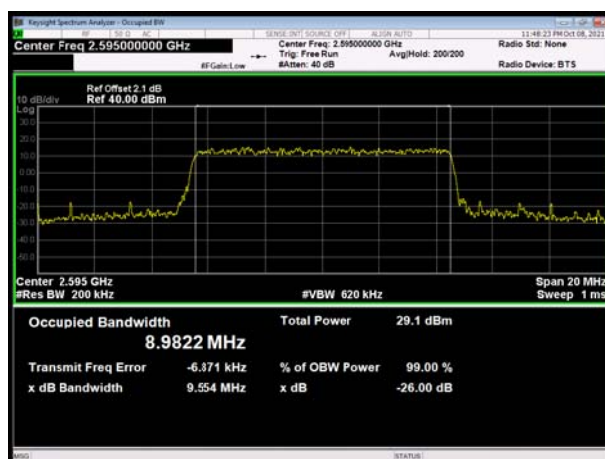
LTE Band 41 16QAM 10MHz CH-Low



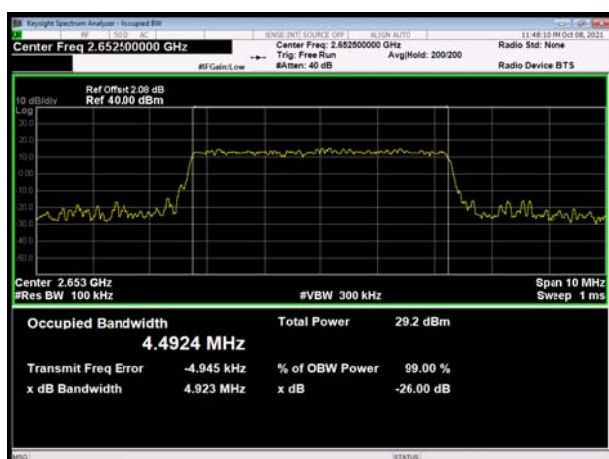
LTE Band 41 16QAM 5MHz CH-Middle



LTE Band 41 16QAM 10MHz CH-Middle



LTE Band 41 16QAM 5MHz CH-High



LTE Band 41 16QAM 10MHz CH-High

