



RF TEST REPORT

Applicant Smawave Technology Co. ,Ltd
FCC ID 2AU8HSMC411-A
Product LTE-A Hotspot
Brand Smawave
Model SMC411-a
Report No. R2011A0794-R1V2
Issue Date December 31, 2020

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2019)/ FCC CFR47 Part 27C (2019)**. 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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Version	Revision description	Issue Date
Rev.0	/	December 25, 2020
Rev.1	Update information for USB and Antenna Type.	December 30, 2020
Rev.2	Update information in page 6.	December 31, 2020

Note: This revised report (Report No. R2011A0794-R1V2) supersedes and replaces the previously issued report (Report No. R2011A0794-R1V1). 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(h)(2)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	/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(m)	PASS
7	Radiates Spurious Emission	2.1053 /27.53(m)	PASS
Date of Testing: November 18, 2020 ~ December 23, 2020			
Date of Sample Received: November 18, 2020			
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 electromagnetic emissions 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
Post code: 201201
Country: P. R. China
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Website: <http://www.ta-shanghai.com>
E-mail: xukai@ta-shanghai.com

2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	Smawave Technology Co. ,Ltd
Applicant address	3/F, Building 8, 1001 North Qinzhou Road, Xuhui District, Shanghai, China
Manufacturer	Smawave Technology Co. ,Ltd
Manufacturer address	3/F, Building 8, 1001 North Qinzhou Road, Xuhui District, Shanghai, China

2.2 General information

EUT Description			
Model	SMC411-a		
IMEI	862165040847046		
Hardware Version	V1.0		
Software Version	SG628_V1.0.4		
Power Supply	Battery/AC adapter		
Antenna Type	PCB Antenna		
Antenna Gain	Band	Frequency(MHz)	Antenna Gain(dBi)
	LTE Band 38	2570	1.4
		2580	1.4
		2600	1.8
		2610	1.4
		2620	1.3
	LTE Band 40	2310	-0.1
		2320	0.2
		2350	-0.4
		2360	-1.1
	LTE Band 41	2500	0.6
		2510	0.6
		2600	1.8
		2680	-0.3
		2690	-0.9
Antenna Working Conditions	Antenna	Working conditions	
	ANT 0	LTE Band 38/41 TX	
	ANT 1	LTE RX	
	ANT 2	LTE Band 40 TX, other band RX	
	ANT 3	LTE RX	
Test Mode(s)	LTE Band 38; LTE Band 40, LTE Band 41;		

Test Modulation	QPSK, 16QAM, 64QAM;		
LTE Category	12		
Maximum E.I.R.P.	LTE Band 38:	23.12dBm	
	LTE Band 40:	23.81dBm	
	LTE Band 41:	21.85dBm	
Rated Power Supply Voltage:	3.8V		
Extreme Voltage	Minimum: 3.23V Maximum: 4.37V		
Extreme Temperature	Lowest: -30°C Highest: +50°C		
Operating Voltage	Minimum: 3.6V Maximum: 4.3V		
Operating Temperature	Lowest: -10°C Highest: +45°C		
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)
	LTE Band 38	2570 ~ 2620	2570 ~ 2620
	LTE Band 40	2300 ~ 2400	2300 ~ 2400
	LTE Band 41	2496 ~ 2690	2496 ~ 2690
EUT Accessory			
Battery	Manufacturer: HUIZHOU DXDRAGON INC. Model: BTE-4001 Output: 3.8V 4000mAh		
USB Cable	Manufacturer: Chengdu Jingyue Kaibo Electronics Co., Ltd Model: SJM001		
Auxiliary equipment			
Adapter	Manufacturer: SHENZHEN TIANYIN ELECTRONICS CO.,LTD Model: TPA-46050200VU		
<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. For Mobile and portable equipment, LTE band 40 is only allowed to operate from 2305 MHz to 2315 MHz and 2350 MHz to 2360 MHz for the transmitter and receiver.</p> <p>3. The EUT don't have standard Adapter, The Adapter used for test in this report is the after-market accessory.</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 (2019)

ANSI C63.26 (2015)

Reference standard:

FCC CFR47 Part 2 (2019)

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) 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 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 for LTE Band 38/40/41:

Test items	Modes	Bandwidth (MHz)				Modulation			RB			Test Channel		
		5	10	15	20	QPSK	16QAM	64QAM	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	LTE 38	0	0	0	0	0	0	0	0	0	0	0	0	0
	LTE 40	0	0	-	-	0	0	0	0	0	0	0	0	0
	LTE 41	0	0	0	0	0	0	0	0	0	0	0	0	0
Occupied Bandwidth	LTE 38	0	0	0	0	0	0	0	-	-	0	0	0	0
	LTE 40	0	0	-	-	0	0	0	-	-	0	0	0	0
	LTE 41	0	0	0	0	0	0	0	-	-	0	0	0	0
Band Edge Compliance	LTE 38	0	0	0	0	0	0	0	0	-	0	0	-	0
	LTE 40	0	0	-	-	0	0	0	0	-	0	0	-	0
	LTE 41	0	0	0	0	0	0	0	0	-	0	0	-	0
Peak-to-Average Power Ratio	LTE 38	0	0	0	0	0	0	0	-	-	0	0	0	0
	LTE 40	0	0	-	-	0	0	0	-	-	0	0	0	0
	LTE 41	0	0	0	0	0	0	0	-	-	0	0	0	0
Frequency Stability	LTE 38	0	0	0	0	0	0	0	0	0	0	0	0	0
	LTE 40	0	0	-	-	0	0	0	0	0	0	0	0	0
	LTE 41	0	0	0	0	0	0	0	0	0	0	0	0	0
Spurious Emissions at Antenna Terminals	LTE 38	0	0	0	0	0	-	-	0	-	-	0	0	0
	LTE 40	0	0	-	-	0	-	-	0	-	-	0	0	0
	LTE 41	0	0	0	0	0	-	-	0	-	-	0	0	0
Radiates Spurious Emission	LTE 38	0	-	-	0	0	-	-	0	-	-	-	0	-
	LTE 40	0	0	-	-	0	-	-	0	-	-	-	0	-
	LTE 41	0	-	-	0	0	-	-	0	-	-	-	0	-



Note	<ol style="list-style-type: none">1. The mark “O” means that this configuration is chosen for testing.2. The mark “-” means that this configuration is not testing.
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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.

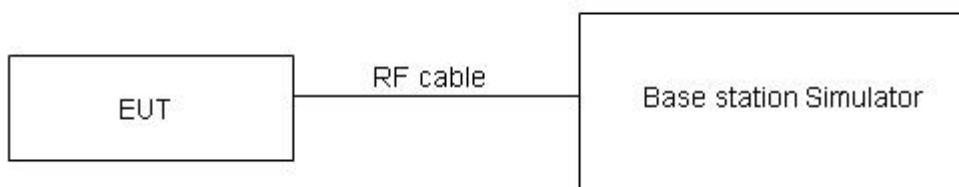
ERP can then be calculated as follows:

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

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

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



Part 27.50(a)(3)Limit	\leq 250 mW (24 dBm)
Part 27.50(h)(2) Limit	\leq 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

Band	Bandwidth (MHz)	Modulation	Channel	RB Configuration	Maximum Output Power(dBm)	EIRP (dBm)	Verdict
LTE Band 38	5	QPSK	37775	1RB#0	21.37	22.77	PASS
LTE Band 38	5	QPSK	37775	1RB#13	20.67	22.07	PASS
LTE Band 38	5	QPSK	37775	1RB#24	21.18	22.58	PASS
LTE Band 38	5	QPSK	37775	12RB#0	20.27	21.67	PASS
LTE Band 38	5	QPSK	37775	12RB#6	19.64	21.04	PASS
LTE Band 38	5	QPSK	37775	12RB#13	20.02	21.42	PASS
LTE Band 38	5	QPSK	37775	25RB#0	19.78	21.18	PASS
LTE Band 38	5	QPSK	38000	1RB#0	21.04	22.84	PASS
LTE Band 38	5	QPSK	38000	1RB#13	20.70	22.50	PASS
LTE Band 38	5	QPSK	38000	1RB#24	21.28	23.08	PASS
LTE Band 38	5	QPSK	38000	12RB#0	19.78	21.58	PASS
LTE Band 38	5	QPSK	38000	12RB#6	19.65	21.45	PASS
LTE Band 38	5	QPSK	38000	12RB#13	20.07	21.87	PASS
LTE Band 38	5	QPSK	38000	25RB#0	19.97	21.77	PASS
LTE Band 38	5	QPSK	38225	1RB#0	20.99	22.29	PASS
LTE Band 38	5	QPSK	38225	1RB#13	21.08	22.38	PASS
LTE Band 38	5	QPSK	38225	1RB#24	21.33	22.63	PASS
LTE Band 38	5	QPSK	38225	12RB#0	20.12	21.42	PASS
LTE Band 38	5	QPSK	38225	12RB#6	20.09	21.39	PASS
LTE Band 38	5	QPSK	38225	12RB#13	20.28	21.58	PASS
LTE Band 38	5	QPSK	38225	25RB#0	20.26	21.56	PASS
LTE Band 38	5	16QAM	37775	1RB#0	19.79	21.19	PASS
LTE Band 38	5	16QAM	37775	1RB#13	19.77	21.17	PASS
LTE Band 38	5	16QAM	37775	1RB#24	20.61	22.01	PASS
LTE Band 38	5	16QAM	37775	12RB#0	18.87	20.27	PASS
LTE Band 38	5	16QAM	37775	12RB#6	18.72	20.12	PASS
LTE Band 38	5	16QAM	37775	12RB#13	19.17	20.57	PASS
LTE Band 38	5	16QAM	37775	25RB#0	19.86	21.26	PASS
LTE Band 38	5	16QAM	38000	1RB#0	19.93	21.73	PASS
LTE Band 38	5	16QAM	38000	1RB#13	19.68	21.48	PASS
LTE Band 38	5	16QAM	38000	1RB#24	20.47	22.27	PASS
LTE Band 38	5	16QAM	38000	12RB#0	18.70	20.50	PASS
LTE Band 38	5	16QAM	38000	12RB#6	18.58	20.38	PASS
LTE Band 38	5	16QAM	38000	12RB#13	19.01	20.81	PASS
LTE Band 38	5	16QAM	38000	25RB#0	19.81	21.61	PASS
LTE Band 38	5	16QAM	38225	1RB#0	20.04	21.34	PASS
LTE Band 38	5	16QAM	38225	1RB#13	19.75	21.05	PASS
LTE Band 38	5	16QAM	38225	1RB#24	20.55	21.85	PASS
LTE Band 38	5	16QAM	38225	12RB#0	18.81	20.11	PASS



LTE Band 38	5	16QAM	38225	12RB#6	18.68	19.98	PASS
LTE Band 38	5	16QAM	38225	12RB#13	19.12	20.42	PASS
LTE Band 38	5	16QAM	38225	25RB#0	19.86	21.16	PASS
LTE Band 38	5	64QAM	37775	1RB#0	20.17	21.57	PASS
LTE Band 38	5	64QAM	37775	1RB#13	20.48	21.88	PASS
LTE Band 38	5	64QAM	37775	1RB#24	20.06	21.46	PASS
LTE Band 38	5	64QAM	37775	12RB#0	18.80	20.20	PASS
LTE Band 38	5	64QAM	37775	12RB#6	18.71	20.11	PASS
LTE Band 38	5	64QAM	37775	12RB#13	19.03	20.43	PASS
LTE Band 38	5	64QAM	37775	25RB#0	18.99	20.39	PASS
LTE Band 38	5	64QAM	38000	1RB#0	19.61	21.41	PASS
LTE Band 38	5	64QAM	38000	1RB#13	20.37	22.17	PASS
LTE Band 38	5	64QAM	38000	1RB#24	19.90	21.70	PASS
LTE Band 38	5	64QAM	38000	12RB#0	18.62	20.42	PASS
LTE Band 38	5	64QAM	38000	12RB#6	18.50	20.30	PASS
LTE Band 38	5	64QAM	38000	12RB#13	18.90	20.70	PASS
LTE Band 38	5	64QAM	38000	25RB#0	18.88	20.68	PASS
LTE Band 38	5	64QAM	38225	1RB#0	20.50	21.80	PASS
LTE Band 38	5	64QAM	38225	1RB#13	20.47	21.77	PASS
LTE Band 38	5	64QAM	38225	1RB#24	19.97	21.27	PASS
LTE Band 38	5	64QAM	38225	12RB#0	18.78	20.08	PASS
LTE Band 38	5	64QAM	38225	12RB#6	18.64	19.94	PASS
LTE Band 38	5	64QAM	38225	12RB#13	18.99	20.29	PASS
LTE Band 38	5	64QAM	38225	25RB#0	18.96	20.26	PASS
LTE Band 38	10	QPSK	37800	1RB#0	21.39	22.79	PASS
LTE Band 38	10	QPSK	37800	1RB#25	20.70	22.10	PASS
LTE Band 38	10	QPSK	37800	1RB#49	21.20	22.60	PASS
LTE Band 38	10	QPSK	37800	25RB#0	20.30	21.70	PASS
LTE Band 38	10	QPSK	37800	25RB#13	19.67	21.07	PASS
LTE Band 38	10	QPSK	37800	25RB#25	20.04	21.44	PASS
LTE Band 38	10	QPSK	37800	50RB#0	19.82	21.22	PASS
LTE Band 38	10	QPSK	38000	1RB#0	21.05	22.85	PASS
LTE Band 38	10	QPSK	38000	1RB#25	20.75	22.55	PASS
LTE Band 38	10	QPSK	38000	1RB#49	21.32	23.12	PASS
LTE Band 38	10	QPSK	38000	25RB#0	19.83	21.63	PASS
LTE Band 38	10	QPSK	38000	25RB#13	19.70	21.50	PASS
LTE Band 38	10	QPSK	38000	25RB#25	20.11	21.91	PASS
LTE Band 38	10	QPSK	38000	50RB#0	19.99	21.79	PASS
LTE Band 38	10	QPSK	38200	1RB#0	21.02	22.32	PASS
LTE Band 38	10	QPSK	38200	1RB#25	21.12	22.42	PASS
LTE Band 38	10	QPSK	38200	1RB#49	21.36	22.66	PASS
LTE Band 38	10	QPSK	38200	25RB#0	20.16	21.46	PASS
LTE Band 38	10	QPSK	38200	25RB#13	20.13	21.43	PASS



LTE Band 38	10	QPSK	38200	25RB#25	20.33	21.63	PASS
LTE Band 38	10	QPSK	38200	50RB#0	20.30	21.60	PASS
LTE Band 38	10	16QAM	37800	1RB#0	19.81	21.21	PASS
LTE Band 38	10	16QAM	37800	1RB#25	19.80	21.20	PASS
LTE Band 38	10	16QAM	37800	1RB#49	20.64	22.04	PASS
LTE Band 38	10	16QAM	37800	25RB#0	18.90	20.30	PASS
LTE Band 38	10	16QAM	37800	25RB#13	18.74	20.14	PASS
LTE Band 38	10	16QAM	37800	25RB#25	19.20	20.60	PASS
LTE Band 38	10	16QAM	37800	50RB#0	19.89	21.29	PASS
LTE Band 38	10	16QAM	38000	1RB#0	19.96	21.76	PASS
LTE Band 38	10	16QAM	38000	1RB#25	19.72	21.52	PASS
LTE Band 38	10	16QAM	38000	1RB#49	20.49	22.29	PASS
LTE Band 38	10	16QAM	38000	25RB#0	18.75	20.55	PASS
LTE Band 38	10	16QAM	38000	25RB#13	18.62	20.42	PASS
LTE Band 38	10	16QAM	38000	25RB#25	19.06	20.86	PASS
LTE Band 38	10	16QAM	38000	50RB#0	19.86	21.66	PASS
LTE Band 38	10	16QAM	38200	1RB#0	20.06	21.36	PASS
LTE Band 38	10	16QAM	38200	1RB#25	19.78	21.08	PASS
LTE Band 38	10	16QAM	38200	1RB#49	20.58	21.88	PASS
LTE Band 38	10	16QAM	38200	25RB#0	18.85	20.15	PASS
LTE Band 38	10	16QAM	38200	25RB#13	18.71	20.01	PASS
LTE Band 38	10	16QAM	38200	25RB#25	19.16	20.46	PASS
LTE Band 38	10	16QAM	38200	50RB#0	19.90	21.20	PASS
LTE Band 38	10	64QAM	37800	1RB#0	20.19	21.59	PASS
LTE Band 38	10	64QAM	37800	1RB#25	20.51	21.91	PASS
LTE Band 38	10	64QAM	37800	1RB#49	20.05	21.45	PASS
LTE Band 38	10	64QAM	37800	25RB#0	18.83	20.23	PASS
LTE Band 38	10	64QAM	37800	25RB#13	18.73	20.13	PASS
LTE Band 38	10	64QAM	37800	25RB#25	19.06	20.46	PASS
LTE Band 38	10	64QAM	37800	50RB#0	19.02	20.42	PASS
LTE Band 38	10	64QAM	38000	1RB#0	19.60	21.40	PASS
LTE Band 38	10	64QAM	38000	1RB#25	20.37	22.17	PASS
LTE Band 38	10	64QAM	38000	1RB#49	19.92	21.72	PASS
LTE Band 38	10	64QAM	38000	25RB#0	18.67	20.47	PASS
LTE Band 38	10	64QAM	38000	25RB#13	18.54	20.34	PASS
LTE Band 38	10	64QAM	38000	25RB#25	18.95	20.75	PASS
LTE Band 38	10	64QAM	38000	50RB#0	18.93	20.73	PASS
LTE Band 38	10	64QAM	38200	1RB#0	20.52	21.82	PASS
LTE Band 38	10	64QAM	38200	1RB#25	20.50	21.80	PASS
LTE Band 38	10	64QAM	38200	1RB#49	20.00	21.30	PASS
LTE Band 38	10	64QAM	38200	25RB#0	18.78	20.08	PASS
LTE Band 38	10	64QAM	38200	25RB#13	18.67	19.97	PASS
LTE Band 38	10	64QAM	38200	25RB#25	19.03	20.33	PASS



LTE Band 38	10	64QAM	38200	50RB#0	19.00	20.30	PASS
LTE Band 38	15	QPSK	37825	1RB#0	21.38	22.78	PASS
LTE Band 38	15	QPSK	37825	1RB#38	20.68	22.08	PASS
LTE Band 38	15	QPSK	37825	1RB#74	21.17	22.57	PASS
LTE Band 38	15	QPSK	37825	36RB#0	20.28	21.68	PASS
LTE Band 38	15	QPSK	37825	36RB#18	19.64	21.04	PASS
LTE Band 38	15	QPSK	37825	36RB#39	20.01	21.41	PASS
LTE Band 38	15	QPSK	37825	75RB#0	19.80	21.20	PASS
LTE Band 38	15	QPSK	38000	1RB#0	21.01	22.81	PASS
LTE Band 38	15	QPSK	38000	1RB#38	20.74	22.54	PASS
LTE Band 38	15	QPSK	38000	1RB#74	21.27	23.07	PASS
LTE Band 38	15	QPSK	38000	36RB#0	19.79	21.59	PASS
LTE Band 38	15	QPSK	38000	36RB#18	19.65	21.45	PASS
LTE Band 38	15	QPSK	38000	36RB#39	20.08	21.88	PASS
LTE Band 38	15	QPSK	38000	75RB#0	19.95	21.75	PASS
LTE Band 38	15	QPSK	38175	1RB#0	21.00	22.40	PASS
LTE Band 38	15	QPSK	38175	1RB#38	21.09	22.49	PASS
LTE Band 38	15	QPSK	38175	1RB#74	21.32	22.72	PASS
LTE Band 38	15	QPSK	38175	36RB#0	20.13	21.53	PASS
LTE Band 38	15	QPSK	38175	36RB#18	20.09	21.49	PASS
LTE Band 38	15	QPSK	38175	36RB#39	20.29	21.69	PASS
LTE Band 38	15	QPSK	38175	75RB#0	20.25	21.65	PASS
LTE Band 38	15	16QAM	37825	1RB#0	19.76	21.16	PASS
LTE Band 38	15	16QAM	37825	1RB#38	19.78	21.18	PASS
LTE Band 38	15	16QAM	37825	1RB#74	20.61	22.01	PASS
LTE Band 38	15	16QAM	37825	36RB#0	18.87	20.27	PASS
LTE Band 38	15	16QAM	37825	36RB#18	18.71	20.11	PASS
LTE Band 38	15	16QAM	37825	36RB#39	19.18	20.58	PASS
LTE Band 38	15	16QAM	37825	75RB#0	19.86	21.26	PASS
LTE Band 38	15	16QAM	38000	1RB#0	19.94	21.74	PASS
LTE Band 38	15	16QAM	38000	1RB#38	19.69	21.49	PASS
LTE Band 38	15	16QAM	38000	1RB#74	20.45	22.25	PASS
LTE Band 38	15	16QAM	38000	36RB#0	18.73	20.53	PASS
LTE Band 38	15	16QAM	38000	36RB#18	18.57	20.37	PASS
LTE Band 38	15	16QAM	38000	36RB#39	19.02	20.82	PASS
LTE Band 38	15	16QAM	38000	75RB#0	19.81	21.61	PASS
LTE Band 38	15	16QAM	38175	1RB#0	20.04	21.44	PASS
LTE Band 38	15	16QAM	38175	1RB#38	19.76	21.16	PASS
LTE Band 38	15	16QAM	38175	1RB#74	20.55	21.95	PASS
LTE Band 38	15	16QAM	38175	36RB#0	18.82	20.22	PASS
LTE Band 38	15	16QAM	38175	36RB#18	18.67	20.07	PASS
LTE Band 38	15	16QAM	38175	36RB#39	19.13	20.53	PASS
LTE Band 38	15	16QAM	38175	75RB#0	19.86	21.26	PASS



LTE Band 38	15	64QAM	37825	1RB#0	20.14	21.54	PASS
LTE Band 38	15	64QAM	37825	1RB#38	20.49	21.89	PASS
LTE Band 38	15	64QAM	37825	1RB#74	20.06	21.46	PASS
LTE Band 38	15	64QAM	37825	36RB#0	18.82	20.22	PASS
LTE Band 38	15	64QAM	37825	36RB#18	18.71	20.11	PASS
LTE Band 38	15	64QAM	37825	36RB#39	19.04	20.44	PASS
LTE Band 38	15	64QAM	37825	75RB#0	18.99	20.39	PASS
LTE Band 38	15	64QAM	38000	1RB#0	19.58	21.38	PASS
LTE Band 38	15	64QAM	38000	1RB#38	20.34	22.14	PASS
LTE Band 38	15	64QAM	38000	1RB#74	19.91	21.71	PASS
LTE Band 38	15	64QAM	38000	36RB#0	18.69	20.49	PASS
LTE Band 38	15	64QAM	38000	36RB#18	18.51	20.31	PASS
LTE Band 38	15	64QAM	38000	36RB#39	18.91	20.71	PASS
LTE Band 38	15	64QAM	38000	75RB#0	18.88	20.68	PASS
LTE Band 38	15	64QAM	38175	1RB#0	20.50	21.90	PASS
LTE Band 38	15	64QAM	38175	1RB#38	20.48	21.88	PASS
LTE Band 38	15	64QAM	38175	1RB#74	20.01	21.41	PASS
LTE Band 38	15	64QAM	38175	36RB#0	18.79	20.19	PASS
LTE Band 38	15	64QAM	38175	36RB#18	18.66	20.06	PASS
LTE Band 38	15	64QAM	38175	36RB#39	19.00	20.40	PASS
LTE Band 38	15	64QAM	38175	75RB#0	18.96	20.36	PASS
LTE Band 38	20	QPSK	37850	1RB#0	21.35	22.75	PASS
LTE Band 38	20	QPSK	37850	1RB#50	20.67	22.07	PASS
LTE Band 38	20	QPSK	37850	1RB#99	21.15	22.55	PASS
LTE Band 38	20	QPSK	37850	50RB#0	20.25	21.65	PASS
LTE Band 38	20	QPSK	37850	50RB#25	19.62	21.02	PASS
LTE Band 38	20	QPSK	37850	50RB#50	19.98	21.38	PASS
LTE Band 38	20	QPSK	37850	100RB#0	19.77	21.17	PASS
LTE Band 38	20	QPSK	38000	1RB#0	20.97	22.77	PASS
LTE Band 38	20	QPSK	38000	1RB#50	20.70	22.50	PASS
LTE Band 38	20	QPSK	38000	1RB#99	21.26	23.06	PASS
LTE Band 38	20	QPSK	38000	50RB#0	19.74	21.54	PASS
LTE Band 38	20	QPSK	38000	50RB#25	19.61	21.41	PASS
LTE Band 38	20	QPSK	38000	50RB#50	20.03	21.83	PASS
LTE Band 38	20	QPSK	38000	100RB#0	19.90	21.70	PASS
LTE Band 38	20	QPSK	38150	1RB#0	20.97	22.37	PASS
LTE Band 38	20	QPSK	38150	1RB#50	21.07	22.47	PASS
LTE Band 38	20	QPSK	38150	1RB#99	21.29	22.69	PASS
LTE Band 38	20	QPSK	38150	50RB#0	20.09	21.49	PASS
LTE Band 38	20	QPSK	38150	50RB#25	20.06	21.46	PASS
LTE Band 38	20	QPSK	38150	50RB#50	20.25	21.65	PASS
LTE Band 38	20	QPSK	38150	100RB#0	20.21	21.61	PASS
LTE Band 38	20	16QAM	37850	1RB#0	20.04	21.44	PASS



LTE Band 38	20	16QAM	37850	1RB#50	19.74	21.14	PASS
LTE Band 38	20	16QAM	37850	1RB#99	20.59	21.99	PASS
LTE Band 38	20	16QAM	37850	50RB#0	18.84	20.24	PASS
LTE Band 38	20	16QAM	37850	50RB#25	18.68	20.08	PASS
LTE Band 38	20	16QAM	37850	50RB#50	19.15	20.55	PASS
LTE Band 38	20	16QAM	37850	100RB#0	19.84	21.24	PASS
LTE Band 38	20	16QAM	38000	1RB#0	19.90	21.70	PASS
LTE Band 38	20	16QAM	38000	1RB#50	19.67	21.47	PASS
LTE Band 38	20	16QAM	38000	1RB#99	20.42	22.22	PASS
LTE Band 38	20	16QAM	38000	50RB#0	18.69	20.49	PASS
LTE Band 38	20	16QAM	38000	50RB#25	18.55	20.35	PASS
LTE Band 38	20	16QAM	38000	50RB#50	18.97	20.77	PASS
LTE Band 38	20	16QAM	38000	100RB#0	19.77	21.57	PASS
LTE Band 38	20	16QAM	38150	1RB#0	19.99	21.39	PASS
LTE Band 38	20	16QAM	38150	1RB#50	19.72	21.12	PASS
LTE Band 38	20	16QAM	38150	1RB#99	20.53	21.93	PASS
LTE Band 38	20	16QAM	38150	50RB#0	18.79	20.19	PASS
LTE Band 38	20	16QAM	38150	50RB#25	18.64	20.04	PASS
LTE Band 38	20	16QAM	38150	50RB#50	19.09	20.49	PASS
LTE Band 38	20	16QAM	38150	100RB#0	19.83	21.23	PASS
LTE Band 38	20	64QAM	37850	1RB#0	20.12	21.52	PASS
LTE Band 38	20	64QAM	37850	1RB#50	20.45	21.85	PASS
LTE Band 38	20	64QAM	37850	1RB#99	20.00	21.40	PASS
LTE Band 38	20	64QAM	37850	50RB#0	18.77	20.17	PASS
LTE Band 38	20	64QAM	37850	50RB#25	18.67	20.07	PASS
LTE Band 38	20	64QAM	37850	50RB#50	19.01	20.41	PASS
LTE Band 38	20	64QAM	37850	100RB#0	18.97	20.37	PASS
LTE Band 38	20	64QAM	38000	1RB#0	19.54	21.34	PASS
LTE Band 38	20	64QAM	38000	1RB#50	20.32	22.12	PASS
LTE Band 38	20	64QAM	38000	1RB#99	19.85	21.65	PASS
LTE Band 38	20	64QAM	38000	50RB#0	18.61	20.41	PASS
LTE Band 38	20	64QAM	38000	50RB#25	18.47	20.27	PASS
LTE Band 38	20	64QAM	38000	50RB#50	18.86	20.66	PASS
LTE Band 38	20	64QAM	38000	100RB#0	18.84	20.64	PASS
LTE Band 38	20	64QAM	38150	1RB#0	20.45	21.85	PASS
LTE Band 38	20	64QAM	38150	1RB#50	20.44	21.84	PASS
LTE Band 38	20	64QAM	38150	1RB#99	19.95	21.35	PASS
LTE Band 38	20	64QAM	38150	50RB#0	18.72	20.12	PASS
LTE Band 38	20	64QAM	38150	50RB#25	18.60	20.00	PASS
LTE Band 38	20	64QAM	38150	50RB#50	18.96	20.36	PASS
LTE Band 38	20	64QAM	38150	100RB#0	18.93	20.33	PASS

LTE Band 40(2305MHz -2315MHz)

Band	Bandwidth (MHz)	Modulation	Channel	RB Configuration	Maximum Output Power(dBm)	EIRP(dBm)	Verdict
LTE Band 40	5	QPSK	38725	1RB#0	22.01	21.91	PASS
LTE Band 40	5	QPSK	38725	1RB#13	22.28	22.18	PASS
LTE Band 40	5	QPSK	38725	1RB#24	22.36	22.26	PASS
LTE Band 40	5	QPSK	38725	12RB#0	21.63	21.53	PASS
LTE Band 40	5	QPSK	38725	12RB#6	21.54	21.44	PASS
LTE Band 40	5	QPSK	38725	12RB#13	21.39	21.29	PASS
LTE Band 40	5	QPSK	38725	25RB#0	21.29	21.19	PASS
LTE Band 40	5	QPSK	38750	1RB#0	21.87	21.77	PASS
LTE Band 40	5	QPSK	38750	1RB#13	22.45	22.35	PASS
LTE Band 40	5	QPSK	38750	1RB#24	22.84	22.74	PASS
LTE Band 40	5	QPSK	38750	12RB#0	21.65	21.55	PASS
LTE Band 40	5	QPSK	38750	12RB#6	21.69	21.59	PASS
LTE Band 40	5	QPSK	38750	12RB#13	21.76	21.66	PASS
LTE Band 40	5	QPSK	38750	25RB#0	21.69	21.59	PASS
LTE Band 40	5	QPSK	38775	1RB#0	22.67	22.57	PASS
LTE Band 40	5	QPSK	38775	1RB#13	23.48	23.38	PASS
LTE Band 40	5	QPSK	38775	1RB#24	23.91	23.81	PASS
LTE Band 40	5	QPSK	38775	12RB#0	22.26	22.16	PASS
LTE Band 40	5	QPSK	38775	12RB#6	22.53	22.43	PASS
LTE Band 40	5	QPSK	38775	12RB#13	22.87	22.77	PASS
LTE Band 40	5	QPSK	38775	25RB#0	22.48	22.38	PASS
LTE Band 40	5	16QAM	38725	1RB#0	21.14	21.04	PASS
LTE Band 40	5	16QAM	38725	1RB#13	21.36	21.26	PASS
LTE Band 40	5	16QAM	38725	1RB#24	21.49	21.39	PASS
LTE Band 40	5	16QAM	38725	12RB#0	20.62	20.52	PASS
LTE Band 40	5	16QAM	38725	12RB#6	20.38	20.28	PASS
LTE Band 40	5	16QAM	38725	12RB#13	20.19	20.09	PASS
LTE Band 40	5	16QAM	38725	25RB#0	20.18	20.08	PASS
LTE Band 40	5	16QAM	38750	1RB#0	21.19	21.09	PASS
LTE Band 40	5	16QAM	38750	1RB#13	21.55	21.45	PASS
LTE Band 40	5	16QAM	38750	1RB#24	21.96	21.86	PASS
LTE Band 40	5	16QAM	38750	12RB#0	20.79	20.69	PASS
LTE Band 40	5	16QAM	38750	12RB#6	20.71	20.61	PASS
LTE Band 40	5	16QAM	38750	12RB#13	20.73	20.63	PASS
LTE Band 40	5	16QAM	38750	25RB#0	20.53	20.43	PASS
LTE Band 40	5	16QAM	38775	1RB#0	21.45	21.35	PASS
LTE Band 40	5	16QAM	38775	1RB#13	22.06	21.96	PASS
LTE Band 40	5	16QAM	38775	1RB#24	22.69	22.59	PASS
LTE Band 40	5	16QAM	38775	12RB#0	21.04	20.94	PASS



LTE Band 40	5	16QAM	38775	12RB#6	21.37	21.27	PASS
LTE Band 40	5	16QAM	38775	12RB#13	21.63	21.53	PASS
LTE Band 40	5	16QAM	38775	25RB#0	21.16	21.06	PASS
LTE Band 40	10	QPSK	38750	1RB#0	21.68	21.58	PASS
LTE Band 40	10	QPSK	38750	1RB#25	22.15	22.05	PASS
LTE Band 40	10	QPSK	38750	1RB#49	23.54	23.44	PASS
LTE Band 40	10	QPSK	38750	25RB#0	21.03	20.93	PASS
LTE Band 40	10	QPSK	38750	25RB#13	21.81	21.71	PASS
LTE Band 40	10	QPSK	38750	25RB#25	22.13	22.03	PASS
LTE Band 40	10	QPSK	38750	50RB#0	21.72	21.62	PASS
LTE Band 40	10	16QAM	38750	1RB#0	20.78	20.68	PASS
LTE Band 40	10	16QAM	38750	1RB#25	21.08	20.98	PASS
LTE Band 40	10	16QAM	38750	1RB#49	22.94	22.84	PASS
LTE Band 40	10	16QAM	38750	25RB#0	20.13	20.03	PASS
LTE Band 40	10	16QAM	38750	25RB#13	20.79	20.69	PASS
LTE Band 40	10	16QAM	38750	25RB#25	21.08	20.98	PASS
LTE Band 40	10	16QAM	38750	50RB#0	20.55	20.45	PASS
LTE Band 40	5	64QAM	38725	1RB#0	20.05	19.95	PASS
LTE Band 40	5	64QAM	38725	1RB#13	20.34	20.24	PASS
LTE Band 40	5	64QAM	38725	1RB#24	20.49	20.39	PASS
LTE Band 40	5	64QAM	38725	12RB#0	19.58	19.48	PASS
LTE Band 40	5	64QAM	38725	12RB#6	19.29	19.19	PASS
LTE Band 40	5	64QAM	38725	12RB#13	19.18	19.08	PASS
LTE Band 40	5	64QAM	38725	25RB#0	19.15	19.05	PASS
LTE Band 40	5	64QAM	38750	1RB#0	20.20	20.10	PASS
LTE Band 40	5	64QAM	38750	1RB#13	20.54	20.44	PASS
LTE Band 40	5	64QAM	38750	1RB#24	20.95	20.85	PASS
LTE Band 40	5	64QAM	38750	12RB#0	19.81	19.71	PASS
LTE Band 40	5	64QAM	38750	12RB#6	19.75	19.65	PASS
LTE Band 40	5	64QAM	38750	12RB#13	19.73	19.63	PASS
LTE Band 40	5	64QAM	38750	25RB#0	19.55	19.45	PASS
LTE Band 40	5	64QAM	38775	1RB#0	20.45	20.35	PASS
LTE Band 40	5	64QAM	38775	1RB#13	21.05	20.95	PASS
LTE Band 40	5	64QAM	38775	1RB#24	21.34	21.24	PASS
LTE Band 40	5	64QAM	38775	12RB#0	20.09	19.99	PASS
LTE Band 40	5	64QAM	38775	12RB#6	20.35	20.25	PASS
LTE Band 40	5	64QAM	38775	12RB#13	20.43	20.33	PASS
LTE Band 40	5	64QAM	38775	25RB#0	20.08	19.98	PASS
LTE Band 40	10	64QAM	38750	1RB#0	19.68	19.58	PASS
LTE Band 40	10	64QAM	38750	1RB#25	20.05	19.95	PASS
LTE Band 40	10	64QAM	38750	1RB#49	21.89	21.79	PASS
LTE Band 40	10	64QAM	38750	25RB#0	19.15	19.05	PASS
LTE Band 40	10	64QAM	38750	25RB#13	19.79	19.69	PASS



LTE Band 40	10	64QAM	38750	25RB#25	20.05	19.95	PASS
LTE Band 40	10	64QAM	38750	50RB#0	19.57	19.47	PASS

LTE Band 40(2350MHz - 2360MHz)

Band	Bandwidth (MHz)	Modulation	Channel	RB Configuration	Maximum Output Power(dBm)	EIRP(dBm)	Verdict
LTE Band 40	5	QPSK	39175	1RB#0	21.15	20.75	PASS
LTE Band 40	5	QPSK	39175	1RB#13	21.34	20.94	PASS
LTE Band 40	5	QPSK	39175	1RB#24	21.47	21.07	PASS
LTE Band 40	5	QPSK	39175	12RB#0	20.99	20.59	PASS
LTE Band 40	5	QPSK	39175	12RB#6	20.89	20.49	PASS
LTE Band 40	5	QPSK	39175	12RB#13	20.84	20.44	PASS
LTE Band 40	5	QPSK	39175	25RB#0	20.69	20.29	PASS
LTE Band 40	5	QPSK	39200	1RB#0	21.38	20.28	PASS
LTE Band 40	5	QPSK	39200	1RB#13	21.89	20.79	PASS
LTE Band 40	5	QPSK	39200	1RB#24	21.93	20.83	PASS
LTE Band 40	5	QPSK	39200	12RB#0	21.12	20.02	PASS
LTE Band 40	5	QPSK	39200	12RB#6	21.19	20.09	PASS
LTE Band 40	5	QPSK	39200	12RB#13	21.26	20.16	PASS
LTE Band 40	5	QPSK	39200	25RB#0	21.08	19.98	PASS
LTE Band 40	5	QPSK	39225	1RB#0	21.58	20.48	PASS
LTE Band 40	5	QPSK	39225	1RB#13	22.02	20.92	PASS
LTE Band 40	5	QPSK	39225	1RB#24	22.09	20.99	PASS
LTE Band 40	5	QPSK	39225	12RB#0	21.18	20.08	PASS
LTE Band 40	5	QPSK	39225	12RB#6	21.15	20.05	PASS
LTE Band 40	5	QPSK	39225	12RB#13	21.37	20.27	PASS
LTE Band 40	5	QPSK	39225	25RB#0	21.28	20.18	PASS
LTE Band 40	5	16QAM	39175	1RB#0	20.46	20.06	PASS
LTE Band 40	5	16QAM	39175	1RB#13	20.87	20.47	PASS
LTE Band 40	5	16QAM	39175	1RB#24	20.94	20.54	PASS
LTE Band 40	5	16QAM	39175	12RB#0	20.03	19.63	PASS
LTE Band 40	5	16QAM	39175	12RB#6	19.85	19.45	PASS
LTE Band 40	5	16QAM	39175	12RB#13	19.74	19.34	PASS
LTE Band 40	5	16QAM	39175	25RB#0	19.81	19.41	PASS
LTE Band 40	5	16QAM	39200	1RB#0	20.49	19.39	PASS
LTE Band 40	5	16QAM	39200	1RB#13	20.84	19.74	PASS
LTE Band 40	5	16QAM	39200	1RB#24	21.03	19.93	PASS
LTE Band 40	5	16QAM	39200	12RB#0	20.18	19.08	PASS
LTE Band 40	5	16QAM	39200	12RB#6	20.11	19.01	PASS
LTE Band 40	5	16QAM	39200	12RB#13	20.01	18.91	PASS
LTE Band 40	5	16QAM	39200	25RB#0	19.09	17.99	PASS
LTE Band 40	5	16QAM	39225	1RB#0	21.04	19.94	PASS



LTE Band 40	5	16QAM	39225	1RB#13	21.47	20.37	PASS
LTE Band 40	5	16QAM	39225	1RB#24	21.37	20.27	PASS
LTE Band 40	5	16QAM	39225	12RB#0	20.33	19.23	PASS
LTE Band 40	5	16QAM	39225	12RB#6	20.19	19.09	PASS
LTE Band 40	5	16QAM	39225	12RB#13	20.14	19.04	PASS
LTE Band 40	5	16QAM	39225	25RB#0	20.23	19.13	PASS
LTE Band 40	10	QPSK	39200	1RB#0	21.18	20.08	PASS
LTE Band 40	10	QPSK	39200	1RB#25	21.60	20.50	PASS
LTE Band 40	10	QPSK	39200	1RB#49	22.38	21.28	PASS
LTE Band 40	10	QPSK	39200	25RB#0	20.91	19.81	PASS
LTE Band 40	10	QPSK	39200	25RB#13	20.12	19.02	PASS
LTE Band 40	10	QPSK	39200	25RB#25	21.39	20.29	PASS
LTE Band 40	10	QPSK	39200	50RB#0	20.85	19.75	PASS
LTE Band 40	10	16QAM	39200	1RB#0	20.33	19.23	PASS
LTE Band 40	10	16QAM	39200	1RB#25	20.98	19.88	PASS
LTE Band 40	10	16QAM	39200	1RB#49	21.35	20.25	PASS
LTE Band 40	10	16QAM	39200	25RB#0	20.29	19.19	PASS
LTE Band 40	10	16QAM	39200	25RB#13	20.35	19.25	PASS
LTE Band 40	10	16QAM	39200	25RB#25	20.47	19.37	PASS
LTE Band 40	10	16QAM	39200	50RB#0	20.29	19.19	PASS
LTE Band 40	5	64QAM	39175	1RB#0	19.45	19.05	PASS
LTE Band 40	5	64QAM	39175	1RB#13	19.88	19.48	PASS
LTE Band 40	5	64QAM	39175	1RB#24	19.89	19.49	PASS
LTE Band 40	5	64QAM	39175	12RB#0	19.02	18.62	PASS
LTE Band 40	5	64QAM	39175	12RB#6	18.89	18.49	PASS
LTE Band 40	5	64QAM	39175	12RB#13	18.74	18.34	PASS
LTE Band 40	5	64QAM	39175	25RB#0	18.69	18.29	PASS
LTE Band 40	5	64QAM	39200	1RB#0	19.39	18.29	PASS
LTE Band 40	5	64QAM	39200	1RB#13	19.88	18.78	PASS
LTE Band 40	5	64QAM	39200	1RB#24	20.04	18.94	PASS
LTE Band 40	5	64QAM	39200	12RB#0	19.15	18.05	PASS
LTE Band 40	5	64QAM	39200	12RB#6	19.11	18.01	PASS
LTE Band 40	5	64QAM	39200	12RB#13	18.89	17.79	PASS
LTE Band 40	5	64QAM	39200	25RB#0	18.05	16.95	PASS
LTE Band 40	5	64QAM	39225	1RB#0	20.09	18.99	PASS
LTE Band 40	5	64QAM	39225	1RB#13	20.47	19.37	PASS
LTE Band 40	5	64QAM	39225	1RB#24	20.37	19.27	PASS
LTE Band 40	5	64QAM	39225	12RB#0	19.23	18.13	PASS
LTE Band 40	5	64QAM	39225	12RB#6	19.15	18.05	PASS
LTE Band 40	5	64QAM	39225	12RB#13	19.23	18.13	PASS
LTE Band 40	5	64QAM	39225	25RB#0	19.35	18.25	PASS
LTE Band 40	10	64QAM	39200	1RB#0	19.38	18.28	PASS
LTE Band 40	10	64QAM	39200	1RB#25	19.95	18.85	PASS



LTE Band 40	10	64QAM	39200	1RB#49	20.33	19.23	PASS
LTE Band 40	10	64QAM	39200	25RB#0	19.19	18.09	PASS
LTE Band 40	10	64QAM	39200	25RB#13	19.31	18.21	PASS
LTE Band 40	10	64QAM	39200	25RB#25	19.39	18.29	PASS
LTE Band 40	10	64QAM	39200	50RB#0	19.27	18.17	PASS

Band	Bandwidth (MHz)	Modulation	Channel	RB Configuration	Maximum Output Power(dBm)	EIRP(dBm)	Verdict
LTE Band 41	5	QPSK	39675	1RB#0	20.85	21.45	PASS
LTE Band 41	5	QPSK	39675	1RB#13	20.92	21.52	PASS
LTE Band 41	5	QPSK	39675	1RB#24	21.25	21.85	PASS
LTE Band 41	5	QPSK	39675	12RB#0	19.90	20.50	PASS
LTE Band 41	5	QPSK	39675	12RB#6	19.88	20.48	PASS
LTE Band 41	5	QPSK	39675	12RB#13	20.04	20.64	PASS
LTE Band 41	5	QPSK	39675	25RB#0	19.89	20.49	PASS
LTE Band 41	5	QPSK	40620	1RB#0	20.37	21.37	PASS
LTE Band 41	5	QPSK	40620	1RB#13	19.25	20.25	PASS
LTE Band 41	5	QPSK	40620	1RB#24	19.17	20.17	PASS
LTE Band 41	5	QPSK	40620	12RB#0	18.79	19.79	PASS
LTE Band 41	5	QPSK	40620	12RB#6	18.49	19.49	PASS
LTE Band 41	5	QPSK	40620	12RB#13	18.30	19.30	PASS
LTE Band 41	5	QPSK	40620	25RB#0	18.61	19.61	PASS
LTE Band 41	5	QPSK	41565	1RB#0	20.71	19.81	PASS
LTE Band 41	5	QPSK	41565	1RB#13	20.62	19.72	PASS
LTE Band 41	5	QPSK	41565	1RB#24	20.21	19.31	PASS
LTE Band 41	5	QPSK	41565	12RB#0	20.34	19.44	PASS
LTE Band 41	5	QPSK	41565	12RB#6	20.12	19.22	PASS
LTE Band 41	5	QPSK	41565	12RB#13	19.88	18.98	PASS
LTE Band 41	5	QPSK	41565	25RB#0	20.14	19.24	PASS
LTE Band 41	5	16QAM	39675	1RB#0	19.56	20.16	PASS
LTE Band 41	5	16QAM	39675	1RB#13	19.67	20.27	PASS
LTE Band 41	5	16QAM	39675	1RB#24	19.95	20.55	PASS
LTE Band 41	5	16QAM	39675	12RB#0	18.77	19.37	PASS
LTE Band 41	5	16QAM	39675	12RB#6	18.90	19.50	PASS
LTE Band 41	5	16QAM	39675	12RB#13	19.02	19.62	PASS
LTE Band 41	5	16QAM	39675	25RB#0	18.84	19.44	PASS
LTE Band 41	5	16QAM	40620	1RB#0	19.51	20.51	PASS
LTE Band 41	5	16QAM	40620	1RB#13	18.49	19.49	PASS
LTE Band 41	5	16QAM	40620	1RB#24	18.42	19.42	PASS
LTE Band 41	5	16QAM	40620	12RB#0	17.76	18.76	PASS
LTE Band 41	5	16QAM	40620	12RB#6	17.52	18.52	PASS
LTE Band 41	5	16QAM	40620	12RB#13	17.22	18.22	PASS



LTE Band 41	5	16QAM	40620	25RB#0	17.61	18.61	PASS
LTE Band 41	5	16QAM	41565	1RB#0	20.04	19.14	PASS
LTE Band 41	5	16QAM	41565	1RB#13	20.01	19.11	PASS
LTE Band 41	5	16QAM	41565	1RB#24	19.47	18.57	PASS
LTE Band 41	5	16QAM	41565	12RB#0	19.42	18.52	PASS
LTE Band 41	5	16QAM	41565	12RB#6	19.42	18.52	PASS
LTE Band 41	5	16QAM	41565	12RB#13	18.98	18.08	PASS
LTE Band 41	5	16QAM	41565	25RB#0	19.26	18.36	PASS
LTE Band 41	5	64QAM	39675	1RB#0	18.45	19.05	PASS
LTE Band 41	5	64QAM	39675	1RB#13	18.60	19.20	PASS
LTE Band 41	5	64QAM	39675	1RB#24	18.89	19.49	PASS
LTE Band 41	5	64QAM	39675	12RB#0	17.69	18.29	PASS
LTE Band 41	5	64QAM	39675	12RB#6	17.68	18.28	PASS
LTE Band 41	5	64QAM	39675	12RB#13	17.91	18.51	PASS
LTE Band 41	5	64QAM	39675	25RB#0	17.76	18.36	PASS
LTE Band 41	5	64QAM	40620	1RB#0	18.62	19.62	PASS
LTE Band 41	5	64QAM	40620	1RB#13	17.42	18.42	PASS
LTE Band 41	5	64QAM	40620	1RB#24	17.33	18.33	PASS
LTE Band 41	5	64QAM	40620	12RB#0	16.87	17.87	PASS
LTE Band 41	5	64QAM	40620	12RB#6	16.54	17.54	PASS
LTE Band 41	5	64QAM	40620	12RB#13	16.34	17.34	PASS
LTE Band 41	5	64QAM	40620	25RB#0	16.70	17.70	PASS
LTE Band 41	5	64QAM	41565	1RB#0	18.64	17.74	PASS
LTE Band 41	5	64QAM	41565	1RB#13	18.57	17.67	PASS
LTE Band 41	5	64QAM	41565	1RB#24	18.08	17.18	PASS
LTE Band 41	5	64QAM	41565	12RB#0	18.42	17.52	PASS
LTE Band 41	5	64QAM	41565	12RB#6	18.26	17.36	PASS
LTE Band 41	5	64QAM	41565	12RB#13	17.91	17.01	PASS
LTE Band 41	5	64QAM	41565	25RB#0	18.21	17.31	PASS
LTE Band 41	10	QPSK	39700	1RB#0	20.80	21.40	PASS
LTE Band 41	10	QPSK	39700	1RB#25	20.86	21.46	PASS
LTE Band 41	10	QPSK	39700	1RB#49	21.18	21.78	PASS
LTE Band 41	10	QPSK	39700	25RB#0	19.83	20.43	PASS
LTE Band 41	10	QPSK	39700	25RB#13	19.84	20.44	PASS
LTE Band 41	10	QPSK	39700	25RB#25	19.97	20.57	PASS
LTE Band 41	10	QPSK	39700	50RB#0	19.87	20.47	PASS
LTE Band 41	10	QPSK	40620	1RB#0	20.24	21.24	PASS
LTE Band 41	10	QPSK	40620	1RB#25	19.21	20.21	PASS
LTE Band 41	10	QPSK	40620	1RB#49	19.09	20.09	PASS
LTE Band 41	10	QPSK	40620	25RB#0	18.75	19.75	PASS
LTE Band 41	10	QPSK	40620	25RB#13	18.45	19.45	PASS
LTE Band 41	10	QPSK	40620	25RB#25	18.22	19.22	PASS
LTE Band 41	10	QPSK	40620	50RB#0	18.53	19.53	PASS



LTE Band 41	10	QPSK	41540	1RB#0	20.65	19.75	PASS
LTE Band 41	10	QPSK	41540	1RB#25	20.56	19.66	PASS
LTE Band 41	10	QPSK	41540	1RB#49	20.11	19.21	PASS
LTE Band 41	10	QPSK	41540	25RB#0	20.28	19.38	PASS
LTE Band 41	10	QPSK	41540	25RB#13	20.07	19.17	PASS
LTE Band 41	10	QPSK	41540	25RB#25	19.89	18.99	PASS
LTE Band 41	10	QPSK	41540	50RB#0	20.15	19.25	PASS
LTE Band 41	10	16QAM	39700	1RB#0	19.53	20.13	PASS
LTE Band 41	10	16QAM	39700	1RB#25	19.65	20.25	PASS
LTE Band 41	10	16QAM	39700	1RB#49	19.93	20.53	PASS
LTE Band 41	10	16QAM	39700	25RB#0	18.74	19.34	PASS
LTE Band 41	10	16QAM	39700	25RB#13	18.87	19.47	PASS
LTE Band 41	10	16QAM	39700	25RB#25	18.97	19.57	PASS
LTE Band 41	10	16QAM	39700	50RB#0	18.82	19.42	PASS
LTE Band 41	10	16QAM	40620	1RB#0	19.48	20.48	PASS
LTE Band 41	10	16QAM	40620	1RB#25	18.44	19.44	PASS
LTE Band 41	10	16QAM	40620	1RB#49	18.35	19.35	PASS
LTE Band 41	10	16QAM	40620	25RB#0	17.73	18.73	PASS
LTE Band 41	10	16QAM	40620	25RB#13	17.47	18.47	PASS
LTE Band 41	10	16QAM	40620	25RB#25	17.22	18.22	PASS
LTE Band 41	10	16QAM	40620	50RB#0	17.61	18.61	PASS
LTE Band 41	10	16QAM	41540	1RB#0	19.99	19.09	PASS
LTE Band 41	10	16QAM	41540	1RB#25	19.97	19.07	PASS
LTE Band 41	10	16QAM	41540	1RB#49	19.43	18.53	PASS
LTE Band 41	10	16QAM	41540	25RB#0	19.38	18.48	PASS
LTE Band 41	10	16QAM	41540	25RB#13	19.36	18.46	PASS
LTE Band 41	10	16QAM	41540	25RB#25	18.95	18.05	PASS
LTE Band 41	10	16QAM	41540	50RB#0	19.24	18.34	PASS
LTE Band 41	10	64QAM	39700	1RB#0	18.40	19.00	PASS
LTE Band 41	10	64QAM	39700	1RB#25	18.54	19.14	PASS
LTE Band 41	10	64QAM	39700	1RB#49	18.82	19.42	PASS
LTE Band 41	10	64QAM	39700	25RB#0	17.62	18.22	PASS
LTE Band 41	10	64QAM	39700	25RB#13	17.64	18.24	PASS
LTE Band 41	10	64QAM	39700	25RB#25	17.84	18.44	PASS
LTE Band 41	10	64QAM	39700	50RB#0	17.74	18.34	PASS
LTE Band 41	10	64QAM	40620	1RB#0	18.49	19.49	PASS
LTE Band 41	10	64QAM	40620	1RB#25	17.38	18.38	PASS
LTE Band 41	10	64QAM	40620	1RB#49	17.25	18.25	PASS
LTE Band 41	10	64QAM	40620	25RB#0	16.83	17.83	PASS
LTE Band 41	10	64QAM	40620	25RB#13	16.50	17.50	PASS
LTE Band 41	10	64QAM	40620	25RB#25	16.26	17.26	PASS
LTE Band 41	10	64QAM	40620	50RB#0	16.62	17.62	PASS
LTE Band 41	10	64QAM	41540	1RB#0	18.58	17.68	PASS



LTE Band 41	10	64QAM	41540	1RB#25	18.51	17.61	PASS
LTE Band 41	10	64QAM	41540	1RB#49	17.98	17.08	PASS
LTE Band 41	10	64QAM	41540	25RB#0	18.36	17.46	PASS
LTE Band 41	10	64QAM	41540	25RB#13	18.21	17.31	PASS
LTE Band 41	10	64QAM	41540	25RB#25	17.92	17.02	PASS
LTE Band 41	10	64QAM	41540	50RB#0	18.22	17.32	PASS
LTE Band 41	15	QPSK	39725	1RB#0	20.79	21.39	PASS
LTE Band 41	15	QPSK	39725	1RB#38	20.84	21.44	PASS
LTE Band 41	15	QPSK	39725	1RB#74	21.15	21.75	PASS
LTE Band 41	15	QPSK	39725	36RB#0	19.81	20.41	PASS
LTE Band 41	15	QPSK	39725	36RB#18	19.81	20.41	PASS
LTE Band 41	15	QPSK	39725	36RB#39	19.94	20.54	PASS
LTE Band 41	15	QPSK	39725	75RB#0	19.85	20.45	PASS
LTE Band 41	15	QPSK	40620	1RB#0	20.20	21.20	PASS
LTE Band 41	15	QPSK	40620	1RB#38	19.20	20.20	PASS
LTE Band 41	15	QPSK	40620	1RB#74	19.04	20.04	PASS
LTE Band 41	15	QPSK	40620	36RB#0	18.71	19.71	PASS
LTE Band 41	15	QPSK	40620	36RB#18	18.40	19.40	PASS
LTE Band 41	15	QPSK	40620	36RB#39	18.19	19.19	PASS
LTE Band 41	15	QPSK	40620	75RB#0	18.49	19.49	PASS
LTE Band 41	15	QPSK	41515	1RB#0	20.63	20.33	PASS
LTE Band 41	15	QPSK	41515	1RB#38	20.53	20.23	PASS
LTE Band 41	15	QPSK	41515	1RB#74	20.07	19.77	PASS
LTE Band 41	15	QPSK	41515	36RB#0	20.25	19.95	PASS
LTE Band 41	15	QPSK	41515	36RB#18	20.03	19.73	PASS
LTE Band 41	15	QPSK	41515	36RB#39	19.85	19.55	PASS
LTE Band 41	15	QPSK	41515	75RB#0	20.10	19.80	PASS
LTE Band 41	15	16QAM	39725	1RB#0	19.48	20.08	PASS
LTE Band 41	15	16QAM	39725	1RB#38	19.63	20.23	PASS
LTE Band 41	15	16QAM	39725	1RB#74	19.90	20.50	PASS
LTE Band 41	15	16QAM	39725	36RB#0	18.71	19.31	PASS
LTE Band 41	15	16QAM	39725	36RB#18	18.84	19.44	PASS
LTE Band 41	15	16QAM	39725	36RB#39	18.95	19.55	PASS
LTE Band 41	15	16QAM	39725	75RB#0	18.79	19.39	PASS
LTE Band 41	15	16QAM	40620	1RB#0	19.46	20.46	PASS
LTE Band 41	15	16QAM	40620	1RB#38	18.41	19.41	PASS
LTE Band 41	15	16QAM	40620	1RB#74	18.31	19.31	PASS
LTE Band 41	15	16QAM	40620	36RB#0	17.71	18.71	PASS
LTE Band 41	15	16QAM	40620	36RB#18	17.42	18.42	PASS
LTE Band 41	15	16QAM	40620	36RB#39	17.18	18.18	PASS
LTE Band 41	15	16QAM	40620	75RB#0	17.56	18.56	PASS
LTE Band 41	15	16QAM	41515	1RB#0	19.97	19.67	PASS
LTE Band 41	15	16QAM	41515	1RB#38	19.95	19.65	PASS



LTE Band 41	15	16QAM	41515	1RB#74	19.40	19.10	PASS
LTE Band 41	15	16QAM	41515	36RB#0	19.35	19.05	PASS
LTE Band 41	15	16QAM	41515	36RB#18	19.32	19.02	PASS
LTE Band 41	15	16QAM	41515	36RB#39	18.92	18.62	PASS
LTE Band 41	15	16QAM	41515	75RB#0	19.20	18.90	PASS
LTE Band 41	15	64QAM	39725	1RB#0	18.39	18.99	PASS
LTE Band 41	15	64QAM	39725	1RB#38	18.52	19.12	PASS
LTE Band 41	15	64QAM	39725	1RB#74	18.79	19.39	PASS
LTE Band 41	15	64QAM	39725	36RB#0	17.60	18.20	PASS
LTE Band 41	15	64QAM	39725	36RB#18	17.61	18.21	PASS
LTE Band 41	15	64QAM	39725	36RB#39	17.81	18.41	PASS
LTE Band 41	15	64QAM	39725	75RB#0	17.72	18.32	PASS
LTE Band 41	15	64QAM	40620	1RB#0	18.45	19.45	PASS
LTE Band 41	15	64QAM	40620	1RB#38	17.37	18.37	PASS
LTE Band 41	15	64QAM	40620	1RB#74	17.20	18.20	PASS
LTE Band 41	15	64QAM	40620	36RB#0	16.79	17.79	PASS
LTE Band 41	15	64QAM	40620	36RB#18	16.45	17.45	PASS
LTE Band 41	15	64QAM	40620	36RB#39	16.23	17.23	PASS
LTE Band 41	15	64QAM	40620	75RB#0	16.58	17.58	PASS
LTE Band 41	15	64QAM	41515	1RB#0	18.56	18.26	PASS
LTE Band 41	15	64QAM	41515	1RB#38	18.48	18.18	PASS
LTE Band 41	15	64QAM	41515	1RB#74	17.94	17.64	PASS
LTE Band 41	15	64QAM	41515	36RB#0	18.33	18.03	PASS
LTE Band 41	15	64QAM	41515	36RB#18	18.17	17.87	PASS
LTE Band 41	15	64QAM	41515	36RB#39	17.88	17.58	PASS
LTE Band 41	15	64QAM	41515	75RB#0	18.17	17.87	PASS
LTE Band 41	20	QPSK	39750	1RB#0	20.76	21.36	PASS
LTE Band 41	20	QPSK	39750	1RB#50	20.83	21.43	PASS
LTE Band 41	20	QPSK	39750	1RB#99	21.13	21.73	PASS
LTE Band 41	20	QPSK	39750	50RB#0	19.78	20.38	PASS
LTE Band 41	20	QPSK	39750	50RB#25	19.79	20.39	PASS
LTE Band 41	20	QPSK	39750	50RB#50	19.91	20.51	PASS
LTE Band 41	20	QPSK	39750	100RB#0	19.82	20.42	PASS
LTE Band 41	20	QPSK	40620	1RB#0	20.16	21.16	PASS
LTE Band 41	20	QPSK	40620	1RB#50	19.16	20.16	PASS
LTE Band 41	20	QPSK	40620	1RB#99	19.03	20.03	PASS
LTE Band 41	20	QPSK	40620	50RB#0	18.66	19.66	PASS
LTE Band 41	20	QPSK	40620	50RB#25	18.36	19.36	PASS
LTE Band 41	20	QPSK	40620	50RB#50	18.14	19.14	PASS
LTE Band 41	20	QPSK	40620	100RB#0	18.44	19.44	PASS
LTE Band 41	20	QPSK	41490	1RB#0	20.60	20.30	PASS
LTE Band 41	20	QPSK	41490	1RB#50	20.51	20.21	PASS
LTE Band 41	20	QPSK	41490	1RB#99	20.04	19.74	PASS



LTE Band 41	20	QPSK	41490	50RB#0	20.21	19.91	PASS
LTE Band 41	20	QPSK	41490	50RB#25	20.00	19.70	PASS
LTE Band 41	20	QPSK	41490	50RB#50	19.81	19.51	PASS
LTE Band 41	20	QPSK	41490	100RB#0	20.06	19.76	PASS
LTE Band 41	20	16QAM	39750	1RB#0	19.46	20.06	PASS
LTE Band 41	20	16QAM	39750	1RB#50	19.59	20.19	PASS
LTE Band 41	20	16QAM	39750	1RB#99	19.88	20.48	PASS
LTE Band 41	20	16QAM	39750	50RB#0	18.68	19.28	PASS
LTE Band 41	20	16QAM	39750	50RB#25	18.81	19.41	PASS
LTE Band 41	20	16QAM	39750	50RB#50	18.92	19.52	PASS
LTE Band 41	20	16QAM	39750	100RB#0	18.77	19.37	PASS
LTE Band 41	20	16QAM	40620	1RB#0	19.42	20.42	PASS
LTE Band 41	20	16QAM	40620	1RB#50	18.39	19.39	PASS
LTE Band 41	20	16QAM	40620	1RB#99	18.28	19.28	PASS
LTE Band 41	20	16QAM	40620	50RB#0	17.67	18.67	PASS
LTE Band 41	20	16QAM	40620	50RB#25	17.40	18.40	PASS
LTE Band 41	20	16QAM	40620	50RB#50	17.13	18.13	PASS
LTE Band 41	20	16QAM	40620	100RB#0	17.52	18.52	PASS
LTE Band 41	20	16QAM	41490	1RB#0	19.92	19.62	PASS
LTE Band 41	20	16QAM	41490	1RB#50	19.91	19.61	PASS
LTE Band 41	20	16QAM	41490	1RB#99	19.38	19.08	PASS
LTE Band 41	20	16QAM	41490	50RB#0	19.32	19.02	PASS
LTE Band 41	20	16QAM	41490	50RB#25	19.29	18.99	PASS
LTE Band 41	20	16QAM	41490	50RB#50	18.88	18.58	PASS
LTE Band 41	20	16QAM	41490	100RB#0	19.17	18.87	PASS
LTE Band 41	20	64QAM	39750	1RB#0	18.36	18.96	PASS
LTE Band 41	20	64QAM	39750	1RB#50	18.51	19.11	PASS
LTE Band 41	20	64QAM	39750	1RB#99	18.77	19.37	PASS
LTE Band 41	20	64QAM	39750	50RB#0	17.57	18.17	PASS
LTE Band 41	20	64QAM	39750	50RB#25	17.59	18.19	PASS
LTE Band 41	20	64QAM	39750	50RB#50	17.78	18.38	PASS
LTE Band 41	20	64QAM	39750	100RB#0	17.69	18.29	PASS
LTE Band 41	20	64QAM	40620	1RB#0	18.41	19.41	PASS
LTE Band 41	20	64QAM	40620	1RB#50	17.33	18.33	PASS
LTE Band 41	20	64QAM	40620	1RB#99	17.19	18.19	PASS
LTE Band 41	20	64QAM	40620	50RB#0	16.74	17.74	PASS
LTE Band 41	20	64QAM	40620	50RB#25	16.41	17.41	PASS
LTE Band 41	20	64QAM	40620	50RB#50	16.18	17.18	PASS
LTE Band 41	20	64QAM	40620	100RB#0	16.53	17.53	PASS
LTE Band 41	20	64QAM	41490	1RB#0	18.53	18.23	PASS
LTE Band 41	20	64QAM	41490	1RB#50	18.46	18.16	PASS
LTE Band 41	20	64QAM	41490	1RB#99	17.91	17.61	PASS
LTE Band 41	20	64QAM	41490	50RB#0	18.29	17.99	PASS



LTE Band 41	20	64QAM	41490	50RB#25	18.14	17.84	PASS
LTE Band 41	20	64QAM	41490	50RB#50	17.84	17.54	PASS
LTE Band 41	20	64QAM	41490	100RB#0	18.13	17.83	PASS

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 100 kHz, VBW is set to 300 kHz for LTE Band 38/40/41 (5MHz).

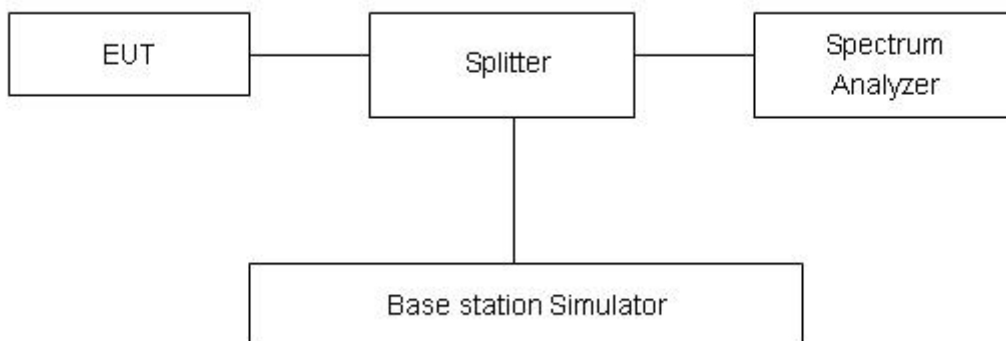
RBW is set to 200 kHz, VBW is set to 620kHz for LTE Band 38/40/41 (10MHz).

RBW is set to 300 kHz, VBW is set to 910kHz for LTE Band 38/41 (15MHz).

RBW is set to 430 kHz, VBW is set to 1.2MHz for LTE Band 38/41 (20MHz).

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

LTE Band 38						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	37775	2572.5	4.5411	5.285
			38000	2595	4.5294	5.248
			38225	2617.5	4.5330	5.418
		10	37800	2575	8.9947	10.090
			38000	2595	8.9974	10.120
			38200	2615	9.0085	9.947
		15	37825	2577.5	13.4630	14.860
			38000	2595	13.4570	14.550
			38175	2612.5	13.4300	14.720
		20	37850	2580	17.9730	19.300
			38000	2595	17.9050	19.270
			38150	2610	17.9780	19.450
	16QAM	5	37775	2572.5	4.5279	5.234
			38000	2595	4.5259	5.244
			38225	2617.5	4.5363	5.377
		10	37800	2575	8.9964	9.951
			38000	2595	8.9528	9.960
			38200	2615	8.9958	9.974
		15	37825	2577.5	13.4590	14.680
			38000	2595	13.4750	14.690
			38175	2612.5	13.5030	14.690
		20	37850	2580	17.9310	19.380
			38000	2595	17.9140	19.250
			38150	2610	17.9460	19.340
	64QAM	5	37775	2572.5	4.5371	5.327
			38000	2595	4.5340	5.302
			38225	2617.5	4.5494	5.409
		10	37800	2575	8.9760	9.978
			38000	2595	8.9904	9.997
			38200	2615	9.0003	9.975
		15	37825	2577.5	13.4830	14.640
			38000	2595	13.4720	14.760
			38175	2612.5	13.5000	14.780
		20	37850	2580	17.9070	19.250
			38000	2595	17.8950	19.290
			38150	2610	17.9410	19.340

LTE Band 40 (2305MHz -2315MHz)							
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)	
100%	QPSK	5	38725	2307.5	4.5486	5.382	
			38750	2310	4.5348	5.257	
			38775	2312.5	4.5262	5.374	
	16QAM	10	5	38750	2310	8.9828	10.070
				38725	2307.5	4.5268	5.251
		5	38750	2310	4.5271	5.230	
			38775	2312.5	4.5498	5.258	
		10	38750	2310	8.9750	9.876	
			38725	2307.5	4.5266	5.288	
	64QAM	5	38750	2310	4.5324	5.246	
			38775	2312.5	4.5274	5.354	
		10	38750	2310	8.9829	10.000	
38725			2307.5	4.5266	5.288		
LTE Band 40 (2350MHz -2360MHz)							
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)	
100%	QPSK	5	39175	2352.5	4.5758	6.047	
			39200	2355	4.5485	5.945	
			39225	2357.5	4.5411	5.660	
	16QAM	10	5	39200	2355	9.0261	13.690
				39175	2352.5	4.5374	5.415
		5	39200	2355	4.5373	5.302	
			39225	2357.5	4.5463	5.440	
		10	39200	2355	9.0225	10.030	
			39175	2352.5	4.2310	5.333	
	64QAM	5	39200	2355	4.5471	5.271	
			39225	2357.5	4.5486	5.320	
		10	39200	2355	9.0222	9.955	
39175			2352.5	4.2310	5.333		



LTE Band 41						
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)
100%	QPSK	5	39675	2498.5	4.5454	5.366
			40620	2593	4.5285	5.246
			41565	2687.5	4.6004	8.380
		10	39700	2501	8.9975	10.010
			40620	2593	8.8890	10.130
			41540	2685	9.1595	18.270
		15	39725	2503.5	13.4890	14.820
			40620	2593	13.4530	14.700
			41515	2682.5	13.7830	26.770
		20	39750	2506	17.9710	19.240
			40620	2593	17.9010	19.300
			41490	2680	18.4760	19.360
	16QAM	5	39675	2498.5	4.5317	5.269
			40620	2593	4.5255	5.308
			41565	2687.5	4.6032	9.649
		10	39700	2501	8.9910	9.907
			40620	2593	8.9724	9.792
			41540	2685	9.1572	10.900
		15	39725	2503.5	13.4800	14.740
			40620	2593	13.4760	14.650
			41515	2682.5	13.7200	17.680
		20	39750	2506	17.9330	19.210
			40620	2593	17.9250	19.320
			41490	2680	18.3030	35.210
	64QAM	5	39675	2498.5	4.5242	5.311
			40620	2593	4.5228	5.304
			41565	2687.5	4.6242	9.623
		10	39700	2501	8.9998	9.877
			40620	2593	8.9806	9.942
			41540	2685	9.1325	15.880
15		39725	2503.5	13.4790	14.560	
		40620	2593	13.4730	14.600	
		41515	2682.5	13.6870	24.080	
20		39750	2506	17.9290	19.390	
		40620	2593	17.9440	19.300	
		41490	2680	18.3360	34.340	



LTE Band 38 QPSK 5MHz CH-Low



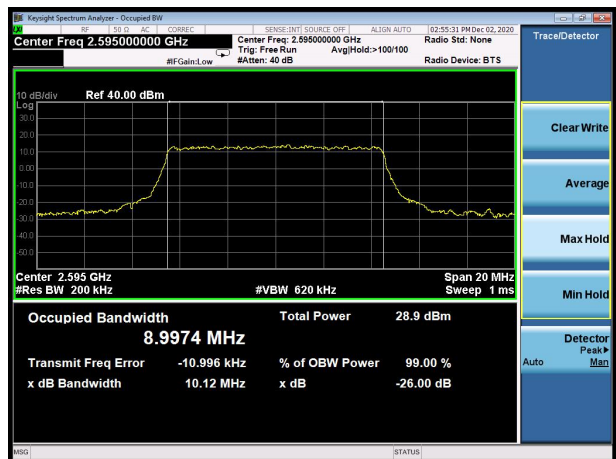
LTE Band 38 QPSK 10MHz CH-Low



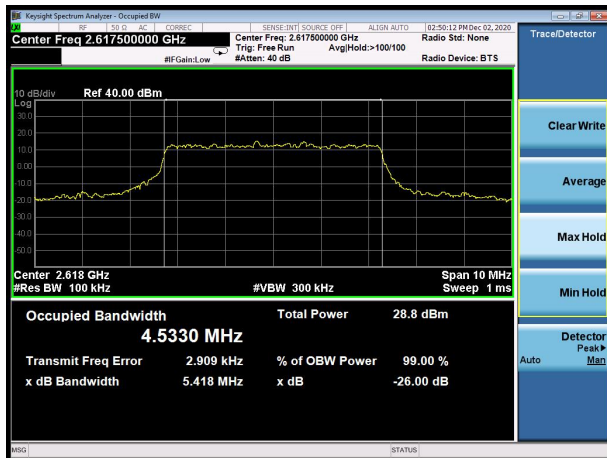
LTE Band 38 QPSK 5MHz CH-Middle



LTE Band 38 QPSK 10MHz CH-Middle



LTE Band 38 QPSK 5MHz CH-High



LTE Band 38 QPSK 10MHz CH-High





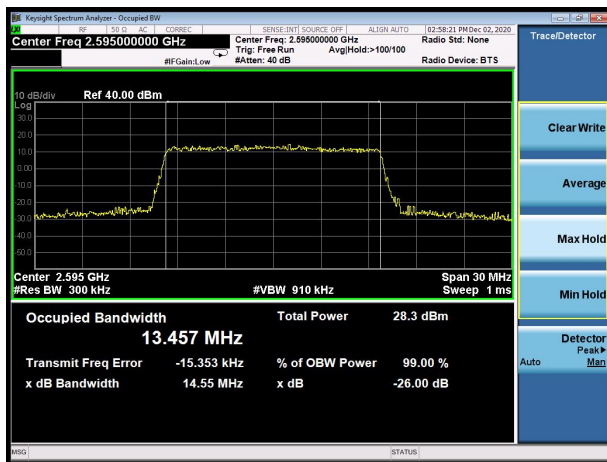
LTE Band 38 QPSK 15MHz CH-Low



LTE Band 38 QPSK 20MHz CH-Low



LTE Band 38 QPSK 15MHz CH-Middle



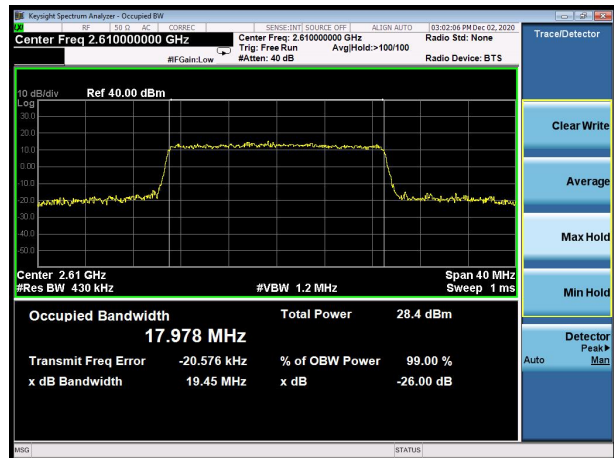
LTE Band 38 QPSK 20MHz CH-Middle



LTE Band 38 QPSK 15MHz CH-High



LTE Band 38 QPSK 20MHz CH-High

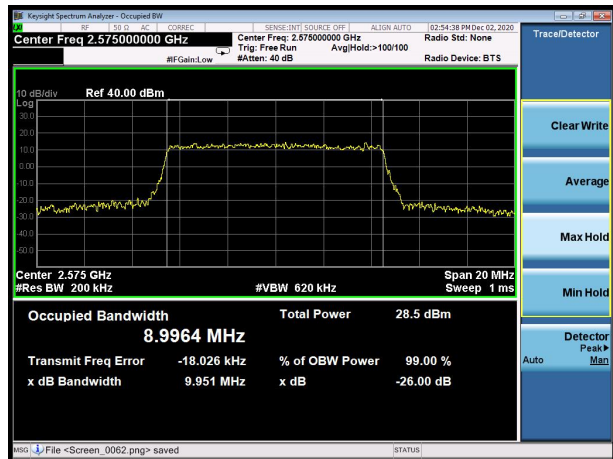




LTE Band 38 16QAM 5MHz CH-Low



LTE Band 38 16QAM 10MHz CH-Low



LTE Band 38 16QAM 5MHz CH-Middle



LTE Band 38 16QAM 10MHz CH-Middle



LTE Band 38 16QAM 5MHz CH-High



LTE Band 38 16QAM 10MHz CH-High





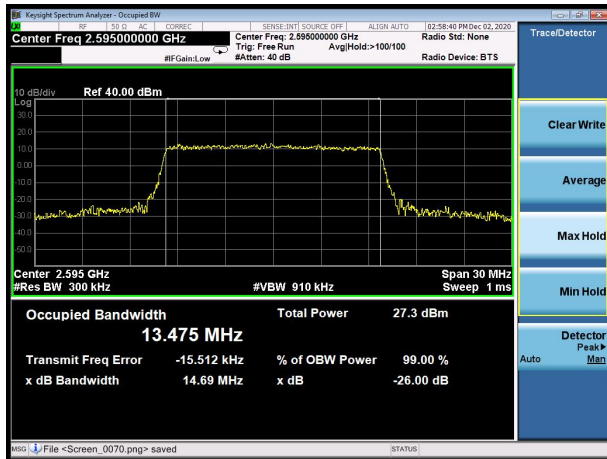
LTE Band 38 16QAM 15MHz CH-Low



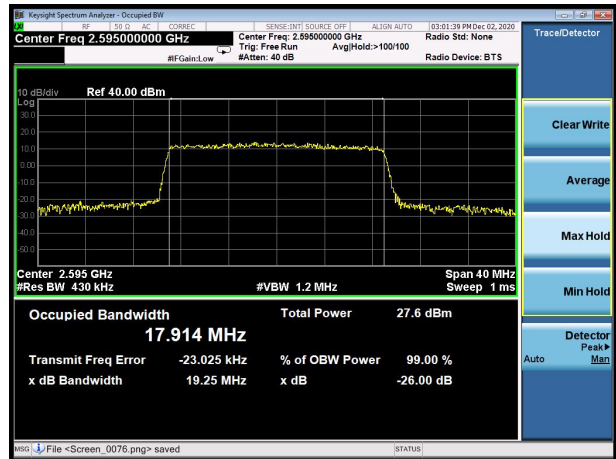
LTE Band 38 16QAM 20MHz CH-Low



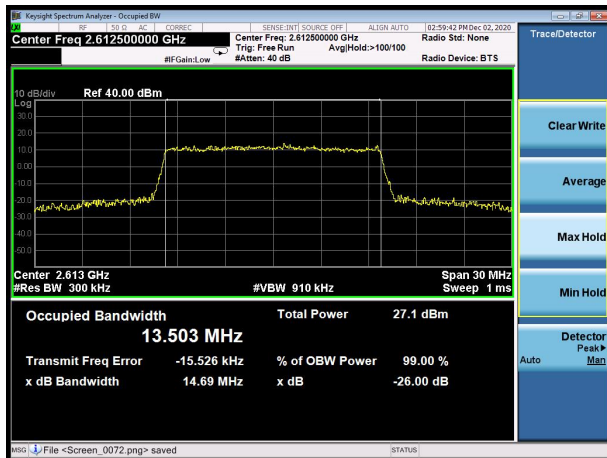
LTE Band 38 16QAM 15MHz CH-Middle



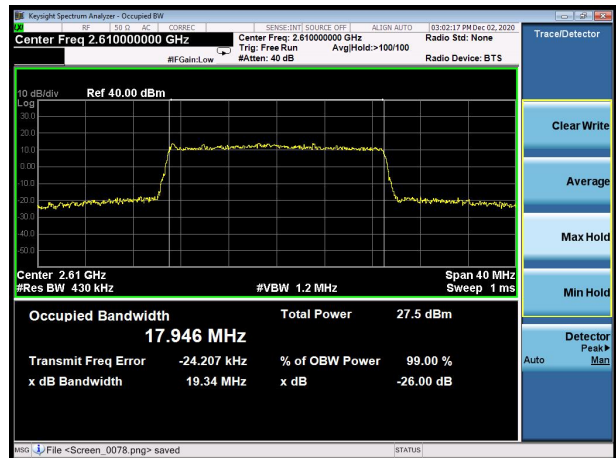
LTE Band 38 16QAM 20MHz CH-Middle



LTE Band 38 16QAM 15MHz CH-High



LTE Band 38 16QAM 20MHz CH-High





LTE Band 38 64QAM 5MHz CH-Low



LTE Band 38 64QAM 10MHz CH-Low



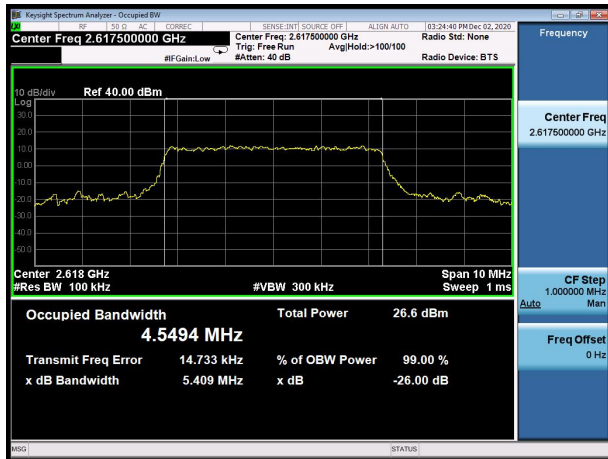
LTE Band 38 64QAM 5MHz CH-Middle



LTE Band 38 64QAM 10MHz CH-Middle



LTE Band 38 64QAM 5MHz CH-High

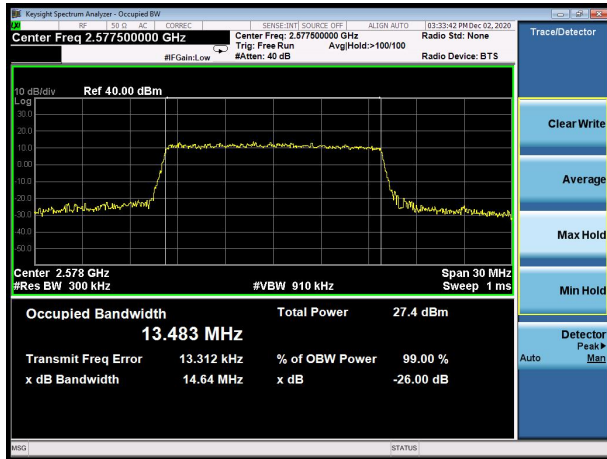


LTE Band 38 64QAM 10MHz CH-High





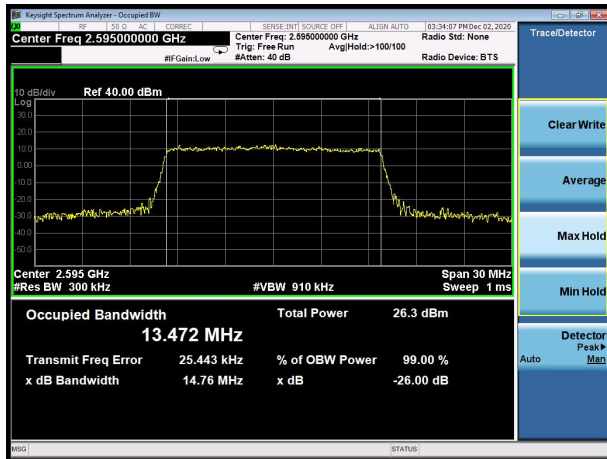
LTE Band 38 64QAM 15MHz CH-Low



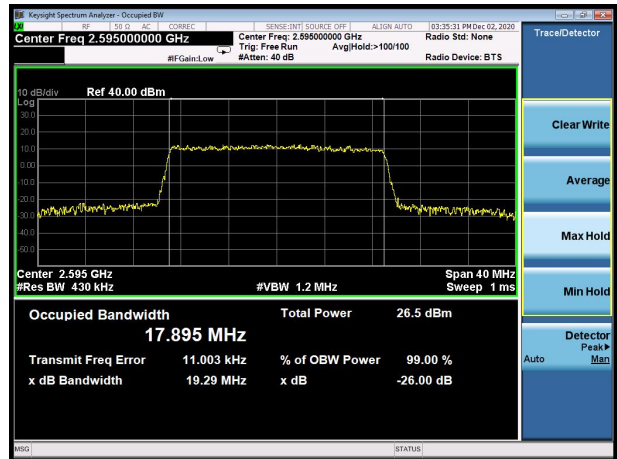
LTE Band 38 64QAM 20MHz CH-Low



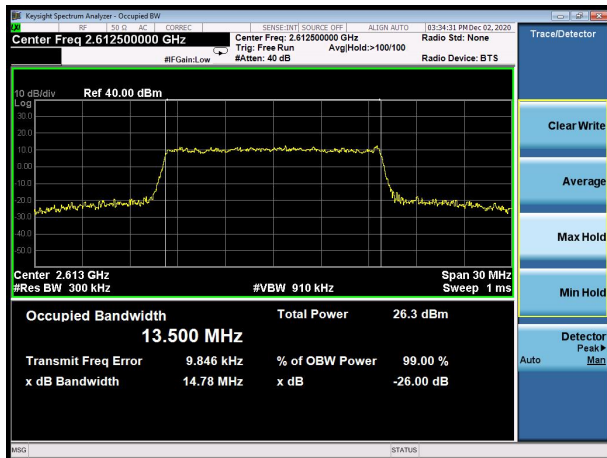
LTE Band 38 64QAM 15MHz CH-Middle



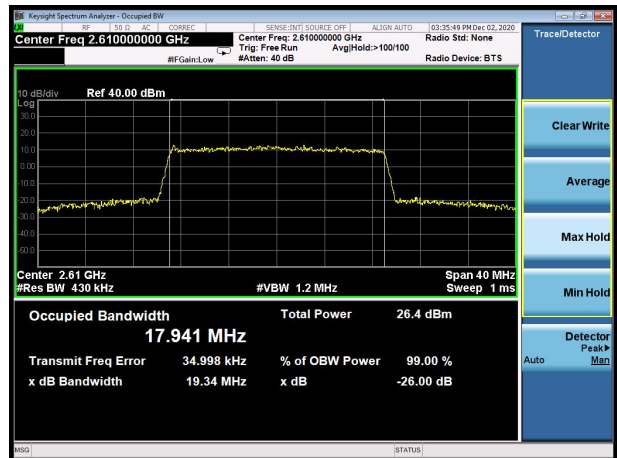
LTE Band 38 64QAM 20MHz CH-Middle



LTE Band 38 64QAM 15MHz CH-High



LTE Band 38 64QAM 20MHz CH-High



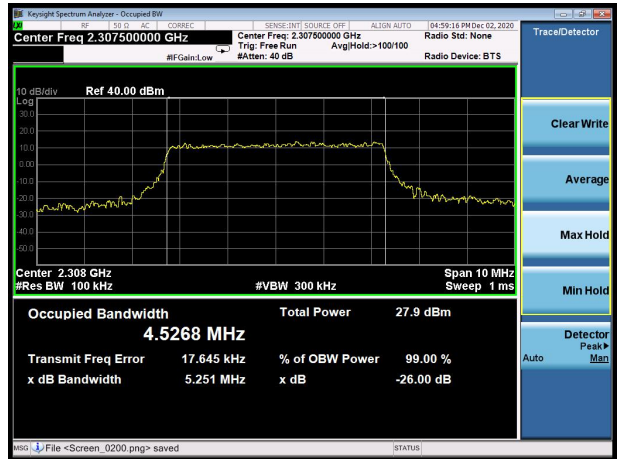


LTE Band 40(2305MHz-2315MHz)

LTE Band 40 QPSK 5MHz CH-Low



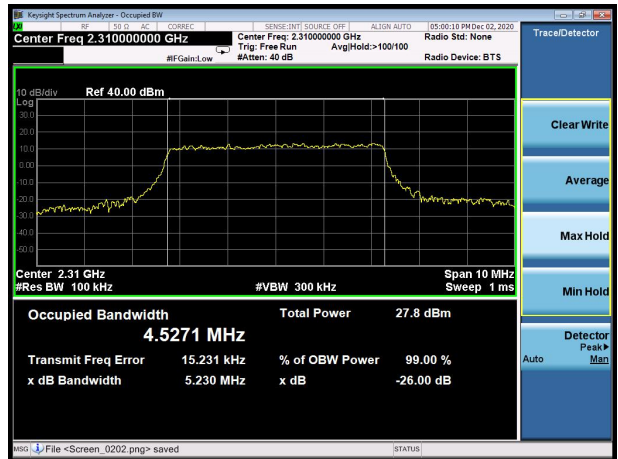
LTE Band 40 16QAM 5MHz CH-Low



LTE Band 40 QPSK 5MHz CH-Middle



LTE Band 40 16QAM 5MHz CH-Middle



LTE Band 40 QPSK 5MHz CH-High



LTE Band 40 16QAM 5MHz CH-High

