



TEST REPORT FCC Part 27

Report Reference No.....: HK2104201176-7E

FCC ID.....: 2AMY3-8T482L

Compiled by

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Date of issue.....: Apr. 22, 2021

Testing Laboratory Name: Shenzhen HUAKE Testing Technology Co., Ltd.

Address: 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park,
Heping Community, Fuhai Street, Bao' an District, Shenzhen, China

Applicant's name.....: Acer India Pvt Ltd.

Address: Embassy Heights 6th Floor, No.13, Magrath Road, (Next to Hosmat
Hospital) Bangalore, 560025, India

Test specification

Standard: FCC CFR Title 47 Part 2, Part 27

TRF Originator.....: Shenzhen HUAKE Testing Technology Co., Ltd.

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Test item description: Tablet PC

Trade Mark: Acer

Manufacturer.....: SHENZHEN YUKO TECHNOLOGY CO., LTD

Model/Type reference.....: Acer One 8 T4-82L

Listed Models: N/A

Modulation Type: QPSK, 16QAM

Rating: DC 3.8V from battery or DC 5V from adapter

Hardware version: V2.0

Software version.....: V2.0

Result.....: **PASS**

**TEST REPORT**

Test Report No. :	HK2104201176-7E	Apr. 22, 2021
		Date of issue

Equipment under Test : Tablet PC

Model /Type : Acer One 8 T4-82L

Listed Models : N/A

Applicant : Acer India Pvt Ltd.

Address : Embassy Heights 6th Floor, No.13, Magrath Road, (Next to Hosmat Hospital) Bangalore, 560025, India

Manufacturer : SHENZHEN YUKO TECHNOLOGY CO., LTD

Address : 6TH FLOOR, A9 BUILDING TIANRUI INDUSTRIAL PARK, FUYUAN 1ST RD, BAO'AN, SHENZHEN CHINA

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



Revision History

Revision	Issue Date	Description	Revised By
Revision 1.0	Aug. 12, 2020	Initial Issue	Jason Zhou
Revision 2.0	Apr. 22, 2021	The RF data is from the report: HK2007272064-7E Equipment to replace the memory, update the data involved	Jason Zhou



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1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Part 2](#): FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

[FCC Part 27](#): MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

[ANSI/TIA-603-E-2016](#): Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

[ANSI C63.26-2015](#): IEEE/ANSI Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

[FCKDB971168D01](#) Power Meas License Digital Systems



2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Jul. 27, 2020
Testing commenced on	:	Jul. 27, 2020
Testing concluded on	:	Apr. 22, 2021

2.2 Product Description

The **Acer India Pvt Ltd.**'s Model: Acer One 8 T4-82L or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

Name of EUT	Tablet PC
Model/Type reference:	Acer One 8 T4-82L
List Model:	N/A
Power supply:	DC 3.8V from battery or DC 5V from adapter
Adapter Information	Input: 100-240V, 50/60Hz, 0.35A; Output: 5V, 2000mA
Modulation Type	QPSK, 16QAM
Antenna Type	Internal Antenna
Antenna Gain	1dBi
Operation Frequency Band	LTE Band 41
Operation frequency	LTE Band 41: 2555~2655 MHz
LTE Release	R8
Extreme temp. Tolerance	-30°C to +50°C
Extreme vol. Limits	3.23VDC to 4.37VDC (nominal: 3.8VDC)

2.3 Equipment under Test

Power supply system utilised

Power supply voltage	:	☐ 120V/ 60 Hz	☐ 115V/60Hz
		☐ 12 V DC	☐ 24 V DC
		☒ Other (specified in blank below)	

DC 3.8V from battery or DC 5V from adapter

2.4 Short description of the Equipment under Test (EUT)

2.4.1 General Description

Acer One 8 T4-82L is subscriber equipment in the LTE system. LTE frequency band is band 41; The Tablet PC implements such functions as RF signal receiving/transmitting, LTE protocol processing, voice, video MMS service, etc. Externally it provides microSD card interface, earphone port (to provide voice service) and SIM card interface.



2.5 Normal Accessory setting

Fully charged battery was used during the test.

2.6 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

☐	Power Cable	Length (m) :	/
		Shield :	/
		Detachable :	/
☐	Multimeter	Manufacturer :	/
		Model No. :	/

2.7 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AMY3-8T482L** filing to comply with FCC Part 27, Rules.

2.8 Modifications

No modifications were implemented to meet testing criteria.

2.9 General Test Conditions/Configurations

2.9.1 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Temperature	TN	Ambient
Voltage	VL	3.23V
	VN	3.8V
	VH	4.37V

NOTE: VL=lower extreme test voltage VN=nominal voltage
VH=upper extreme test voltage TN=normal temperature



3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Test Firm : Shenzhen HUAK Testing Technology Co., Ltd.

Address : 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation
Park, Fuhai Street, Bao'an District, Shenzhen City, China

FCC designation number : CN1229

test firm registration number : 616276

3.2 Test Description

Test Item	FCCRuleNo.	Verdict
Effective(Isotropic)RadiatedOutputPower	Part 2.1046 27.50(h)(2)	Pass
Peak-AverageRatio	Part 2.1046	Pass
ModulationCharacteristics	§2.1047	N/A
Bandwidth	Part 2.1049	Pass
BandEdgesCompliance	Part 2.1051 27.53(m)	Pass
SpuriousEmissionatAntennaTerminals	Part 2.1051 27.53(m)	Pass
Field Strengthof Spurious Radiation	Part 2.1053 27.53(m)	Pass
Frequency Stability	Part 2.1055 27.54	Pass
NOTE 1:For the verdict,the“N/A”denotes“not applicable”,the“N/T”denotes “nottested”.		

Remark:

1. The measurement uncertainty is not included in the test result.



3.3 Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	HKE-059	Jun. 18, 2020	Jun. 17, 2021
LISN	R&S	ENV216	HKE-002	Jun. 18, 2020	Jun. 17, 2021
Receiver	R&S	ESCI 7	HKE-010	Jun. 18, 2020	Jun. 17, 2021
Spectrum analyzer	R&S	FSP40	HKE-025	Jun. 18, 2020	Jun. 17, 2021
Spectrum analyzer	Agilent	N9020A	HKE-048	Jun. 18, 2020	Jun. 17, 2021
RF automatic control unit	Tonscend	JS0806-1	HKE-060	Jun. 18, 2020	Jun. 17, 2021
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Jun. 18, 2020	Jun. 17, 2021
Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Jun. 18, 2020	Jun. 17, 2021
Horn antenna	Schwarzbeck	9120D	HKE-013	Jun. 18, 2020	Jun. 17, 2021
High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Jun. 18, 2020	Jun. 17, 2021
Preamplifier	EMCI	EMC051845SE	HKE-015	Jun. 18, 2020	Jun. 17, 2021
Preamplifier	Agilent	83051A	HKE-016	Jun. 18, 2020	Jun. 17, 2021
Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Jun. 18, 2020	Jun. 17, 2021
Temperature and humidity meter	Boyang	HTC-1	HKE-075	Jun. 18, 2020	Jun. 17, 2021
High-low temperature chamber	Guangke	HT-80L	HKE-118	Jun. 18, 2020	Jun. 17, 2021
High pass filter unit	Tonscend	JS0806-F	HKE-055	Jun. 18, 2020	Jun. 17, 2021
RF Cable(below1GHz)	Times	9kHz-1GHz	HKE-117	Jun. 18, 2020	Jun. 17, 2021
RF Cable(above 1GHz)	Times	1-40G	HKE-034	Jun. 18, 2020	Jun. 17, 2021
Power meter	Agilent	E4419B	HKE-085	Jun. 18, 2020	Jun. 17, 2021
Power Sensor	Agilent	E9300A	HKE-086	Jun. 18, 2020	Jun. 17, 2021
Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A	N/A
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A
RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	N/A
RF test software	Tonscend	JS1120-4	HKE-113	N/A	N/A
RF test software	Tonscend	JS1120-3	HKE-114	N/A	N/A
RF test software	Tonscend	JS1120-1	HKE-115	N/A	N/A
Wireless Communication Test Set	R&S	CMW500	HKE-026	Jun. 18, 2020	Jun. 17, 2021
Wireless Communication Test Set	R&S	CMU200	HKE-029	Jun. 18, 2020	Jun. 17, 2021



4 TEST CONDITIONS AND RESULTS

4.1 Output Power

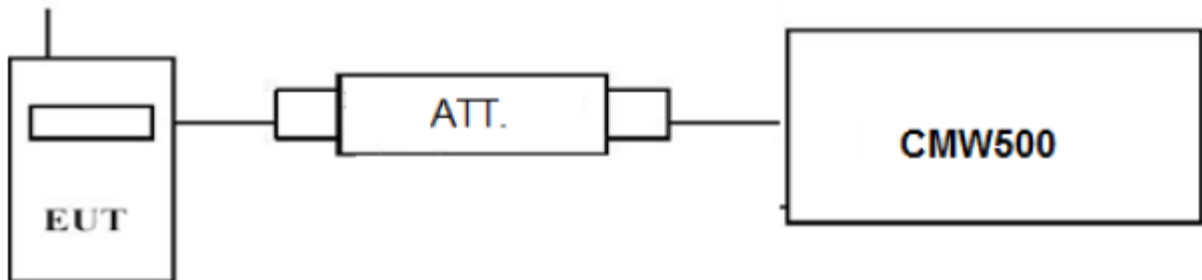
4.1.1 Conducted Output Power

TEST APPLICABLE

Part 27.50(h)(2) , during the process of testing, the EUT was controlled via R&S Digital Radio Communication tester (CMW500) to ensure max power transmission and proper modulation. This result contains output power measurements for the EUT. In all cases, output power is within the specified limits.

TEST CONFIGURATION

Conducted Power Measurement:



TEST PROCEDURE

Conducted Power Measurement:

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a CMW500 by an Att.
- EUT Communicate with CMW500 then selects a channel for testing.
- Add a correction factor to the display CMW500, and then test.

TEST RESULTS



EUT :	Tablet PC	Test Date:	Jul. 30, 2020
Temperature:	25°C	Tested by:	Gary Qian
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage- Tx Mode		

Remark:

1. We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 41;

LTE Band 41				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	Burst Average Power [dBm]	
			QPSK	16QAM
5 MHz	2557.5	1 RB low	21.94	20.99
		1 RB mid	22.04	21.04
		1 RB high	21.90	20.93
		50% RB low	20.95	20.86
		50% RB mid	20.99	20.93
		50% RB high	20.98	20.85
		100% RB	20.97	20.86
	2600.0	1 RB low	21.95	20.86
		1 RB mid	21.95	20.93
		1 RB high	22.05	20.85
		50% RB low	20.98	20.69
		50% RB mid	20.98	20.76
		50% RB high	20.94	20.99
		100% RB	20.97	20.69
	2652.5	1 RB low	22.32	21.49
		1 RB mid	22.34	21.38
		1 RB high	22.46	21.35
		50% RB low	21.42	20.43
		50% RB mid	21.42	20.39
		50% RB high	21.36	20.36
		100% RB	21.38	20.35
10 MHz	2560.0	1 RB low	22.29	20.78
		1 RB mid	21.95	20.89
		1 RB high	22.06	21.10
		50% RB low	21.02	20.98
		50% RB mid	21.01	20.40
		50% RB high	21.02	20.31
		100% RB	20.97	20.96
	2600.0	1 RB low	21.97	20.69
		1 RB mid	21.95	20.76
		1 RB high	22.25	20.99
		50% RB low	20.98	20.96
		50% RB mid	21.02	20.52
		50% RB high	21.03	20.42
		100% RB	20.96	20.96
	2650.0	1 RB low	22.69	21.66
		1 RB mid	22.41	21.38
		1 RB high	22.39	21.37
		50% RB low	21.41	20.39
		50% RB mid	21.45	20.39
		50% RB high	21.42	20.43
		100% RB	21.41	20.40
15 MHz	2562.5	1 RB low	21.86	21.02
		1 RB mid	21.88	20.99
		1 RB high	21.72	20.82
		50% RB low	21.03	21.03
		50% RB mid	21.00	21.03



		50% RB high	20.83	20.83
		100% RB	20.98	20.93
	2600.0	1 RB low	21.92	20.65
		1 RB mid	21.81	20.71
		1 RB high	21.98	20.58
		50% RB low	20.67	20.59
		50% RB mid	20.75	20.65
		50% RB high	20.56	20.72
		100% RB	21.04	20.96
	2647.5	1 RB low	22.30	21.42
		1 RB mid	22.24	21.21
		1 RB high	22.43	21.27
		50% RB low	21.20	21.21
		50% RB mid	21.43	21.43
		50% RB high	21.28	21.27
		100% RB	21.45	20.37
20 MHz	2570.0	1 RB low	21.59	20.68
		1 RB mid	22.13	20.88
		1 RB high	21.81	21.23
		50% RB low	20.85	20.87
		50% RB mid	20.87	20.87
		50% RB high	20.85	20.84
		100% RB	20.89	20.86
	2600.0	1 RB low	21.72	20.44
		1 RB mid	21.63	20.53
		1 RB high	22.17	21.00
		50% RB low	20.85	20.85
		50% RB mid	20.95	20.95
		50% RB high	20.96	20.95
		100% RB	20.91	20.90
	2640.0	1 RB low	22.75	21.52
		1 RB mid	21.98	20.81
		1 RB high	22.21	21.09
		50% RB low	21.19	20.46
		50% RB mid	21.41	20.46
		50% RB high	21.19	20.40
		100% RB	21.31	20.30

4.1.2. Radiated Output Power

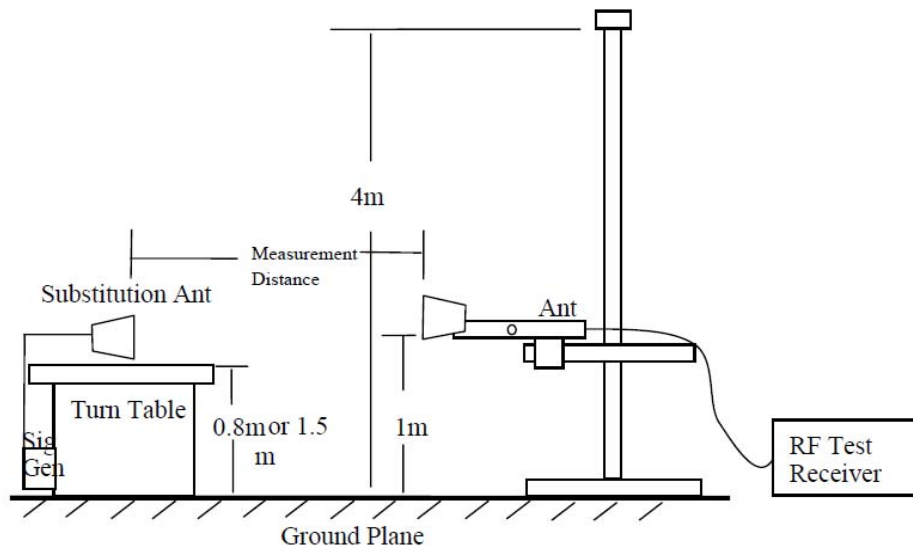
LIMIT

This is the test for the maximum radiated power from the EUT.

TEST CONFIGURATION

RadiatedPowerMeasurement:

remark : 0.8m for below 1GHz, 1.5m for above 1GHz



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

- The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.
- The output of the test antenna shall be connected to the measuring receiver.
- The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- The maximum signal level detected by the measuring receiver shall be noted.
- The transmitter shall be replaced by a substitution antenna.
- The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- The substitution antenna shall be connected to a calibrated signal generator.
- If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- Test site anechoic chamber refer to ANSI C63.4.

**TEST RESULTS**

EUT :	Tablet PC	Test Date:	Jul. 30, 2020
Temperature:	25°C	Tested by:	Gary Qian
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage- Tx Mode		

Radiated Measurement:*Remark:*

1. We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 41; recorded worst case for each Channel Bandwidth of LTE Band 41.
2. $EIRP = P_s(dBm) - P_{cl}(dB) + G_a(dBi)$
3. We measured both Horizontal and Vertical direction, recorded worst case direction.

LTE Band 41_Channel Bandwidth 5MHz_QPSK_1RB#0

Frequency (MHz)	P_s (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2557.5	5.89	3.41	15.12	17.6	33.01	15.41	V
2600.0	4.92	3.49	15.12	16.55	33.01	16.46	V
2652.5	6.81	3.55	15.12	18.38	33.01	14.63	V

LTE Band 41_Channel Bandwidth 10MHz_QPSK_1RB#0

Frequency (MHz)	P_s (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2560.0	6.79	3.41	15.12	18.5	33.01	14.51	V
2600.0	6.91	3.49	15.12	18.54	33.01	14.47	V
2650.0	6.54	3.55	15.12	18.11	33.01	14.9	V

LTE Band 41_Channel Bandwidth 15MHz_QPSK_1RB#0

Frequency (MHz)	P_s (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2562.5	7.79	3.41	15.12	19.5	33.01	13.51	V
2600.0	6.17	3.49	15.12	17.8	33.01	15.21	V
2647.5	7.43	3.55	15.12	19	33.01	14.01	V

LTE Band 41_Channel Bandwidth 20MHz_QPSK_1RB#0

Frequency (MHz)	P_s (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2570.0	7.84	3.41	15.12	19.55	33.01	13.46	V
2600.0	7.31	3.49	15.12	18.94	33.01	14.07	V
2640.0	8.18	3.55	15.12	19.75	33.01	13.26	V

*LTE Band 41_Channel Bandwidth 5MHz_16QAM_1RB#0*

Frequency (MHz)	P _s (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2557.5	7.17	3.41	15.12	18.88	33.01	14.13	V
2600.0	7.87	3.49	15.12	19.5	33.01	13.51	V
2652.5	7.12	3.55	15.12	18.69	33.01	14.32	V

LTE Band 41_Channel Bandwidth 10MHz_16QAM_1RB#0

Frequency (MHz)	P _s (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2560.0	7.02	3.41	15.12	18.73	33.01	14.28	V
2600.0	7.44	3.49	15.12	19.07	33.01	13.94	V
2650.0	7.51	3.55	15.12	19.08	33.01	13.93	V

LTE Band 41_Channel Bandwidth 15MHz_16QAM_1RB#0

Frequency (MHz)	P _s (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2562.5	6.26	3.41	15.12	17.97	33.01	15.04	V
2600.0	7.65	3.49	15.12	19.28	33.01	13.73	V
2647.5	6.55	3.55	15.12	18.12	33.01	14.89	V

LTE Band 41_Channel Bandwidth 20MHz_16QAM_1RB#0

Frequency (MHz)	P _s (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2570.0	7.35	3.41	15.12	19.06	33.01	13.95	V
2600.0	7.69	3.49	15.12	19.32	33.01	13.69	V
2640.0	8.32	3.55	15.12	19.89	33.01	13.12	V

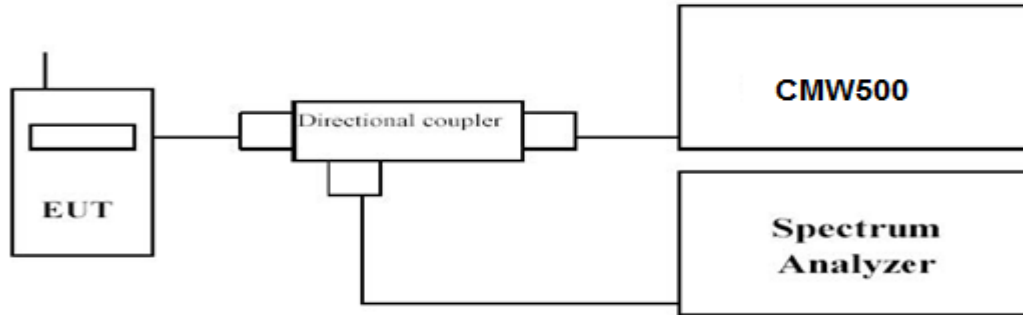


4.2 Peak-to-Average Ratio (PAR)

LIMIT

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

TEST CONFIGURATION



TEST PROCEDURE

1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
3. Set the number of counts to a value that stabilizes the measured CCDF curve;
4. Set the measurement interval as follows:
 - 1). for continuous transmissions, set to 1 ms,
 - 2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
5. Record the maximum PAPR level associated with a probability of 0.1%.

TEST RESULTS

EUT :	Tablet PC	Test Date:	Jul. 30, 2020
Temperature:	25°C	Tested by:	Gary Qian
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage- Tx Mode		

Remark:

1. We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 41; recorded worst case for each Channel Bandwidth of LTE Band 41.

LTE Band 41				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	PAPR(dB)	
			QPSK	16QAM
5 MHz	2557.5	1RB#0	5.02	5.97
	2600.0		4.54	5.35
	2652.5		4.69	5.39
10 MHz	2560.0	1RB#0	5.39	5.87
	2600.0		4.93	5.68
	2650.0		5.08	6.18
15 MHz	2562.5	1RB#0	5.12	5.75
	2600.0		4.71	5.64
	2647.5		5.23	6.40
20 MHz	2570.0	1RB#0	4.76	5.56
	2600.0		5.15	6.16
	2640.0		5.64	6.13

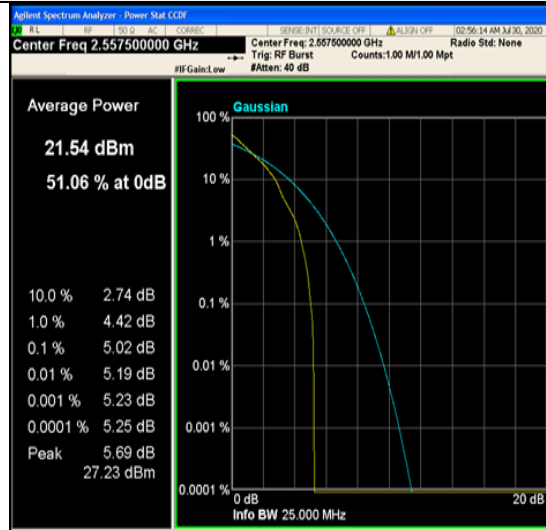


LTE Band 41-5MHz Channel Bandwidth PAPR

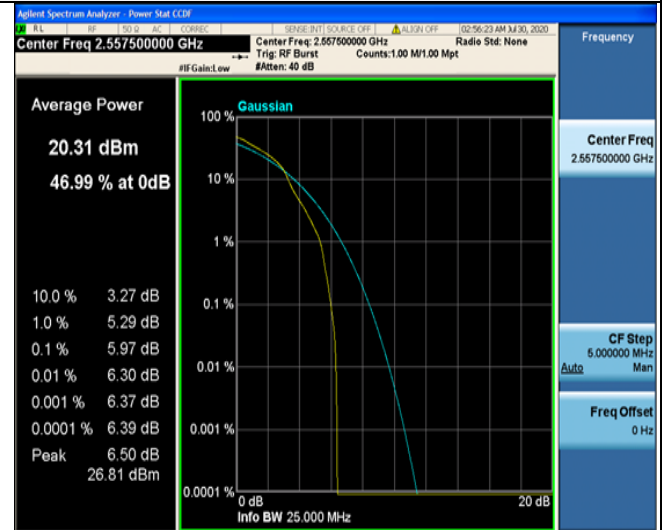
QPSK

16QAM

Low Channel

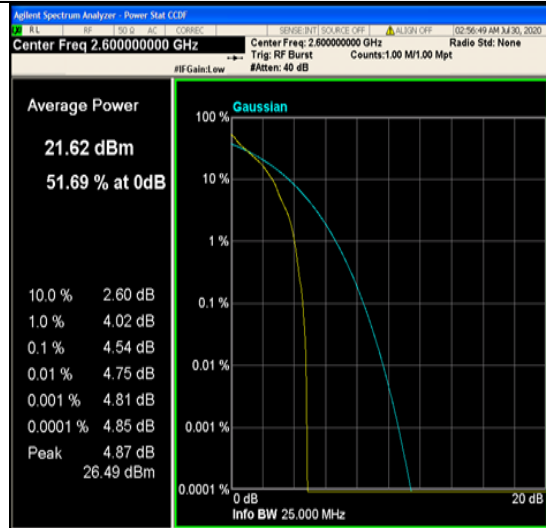


1RB#0

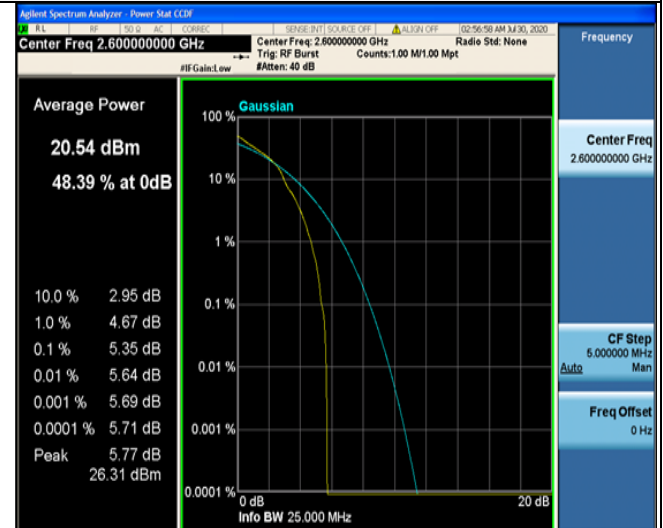


1RB#0

Middle Channel

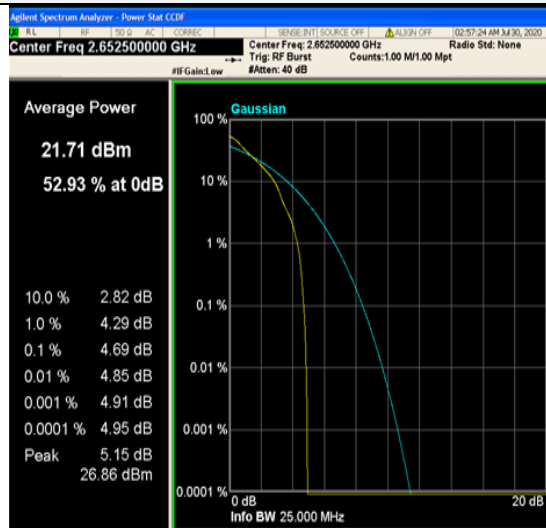


1RB#0



1RB#0

High Channel



1RB#0



1RB#0



LTE Band 41-10MHz Channel BandwidthPAPR

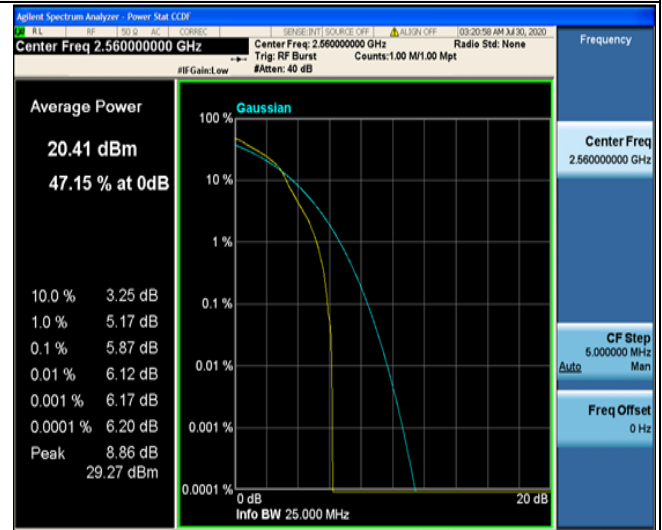
QPSK

16QAM

Low Channel



1RB#0



1RB#0

Middle Channel



1RB#0



1RB#0

High Channel



1RB#0



1RB#0

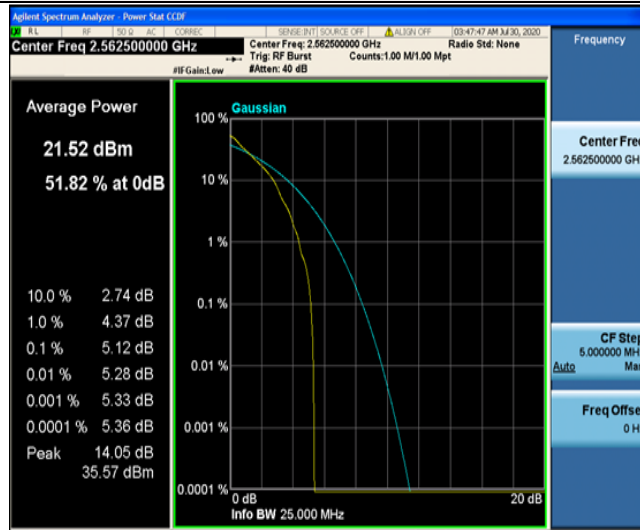


LTE Band 41– 15 MHz Channel BandwidthPAPR

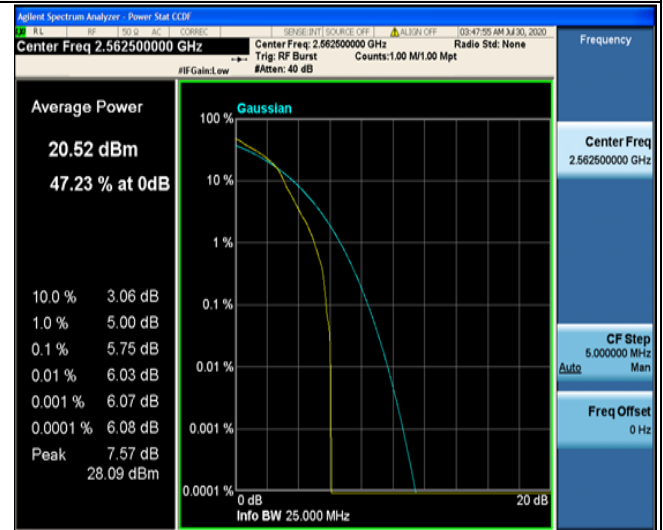
QPSK

16QAM

Low Channel

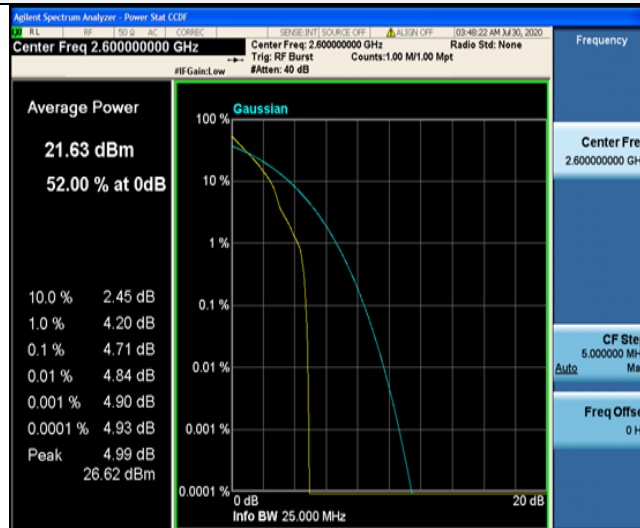


1RB#0



1RB#0

Middle Channel



1RB#0

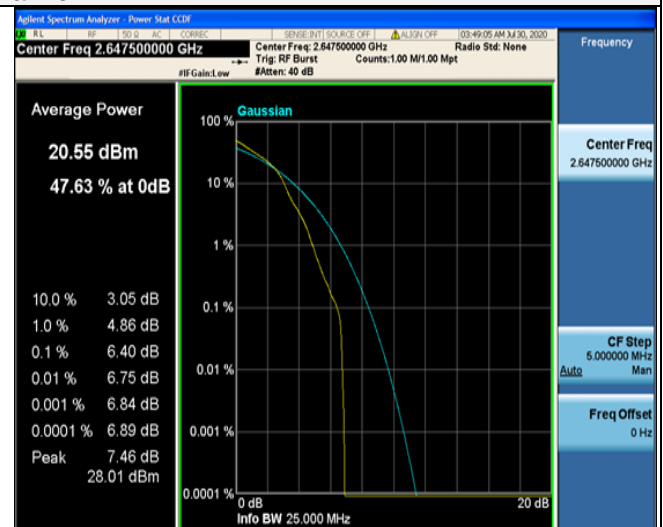


1RB#0

High Channel



1RB#0



1RB#0

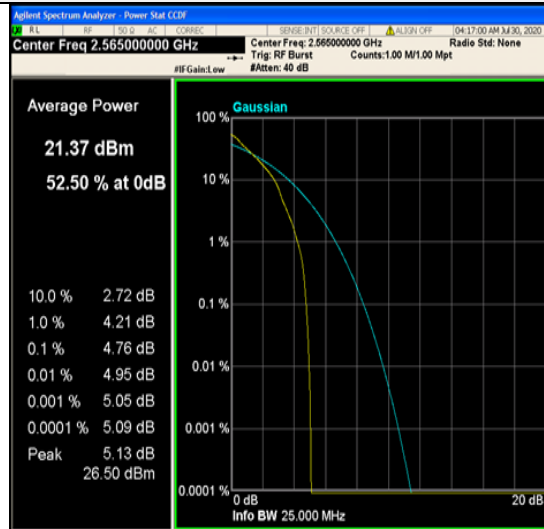


LTE Band 41-20MHz Channel BandwidthPAPR

QPSK

16QAM

Low Channel

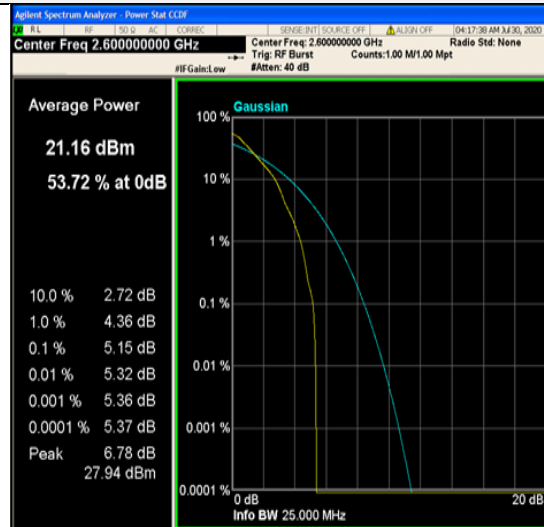


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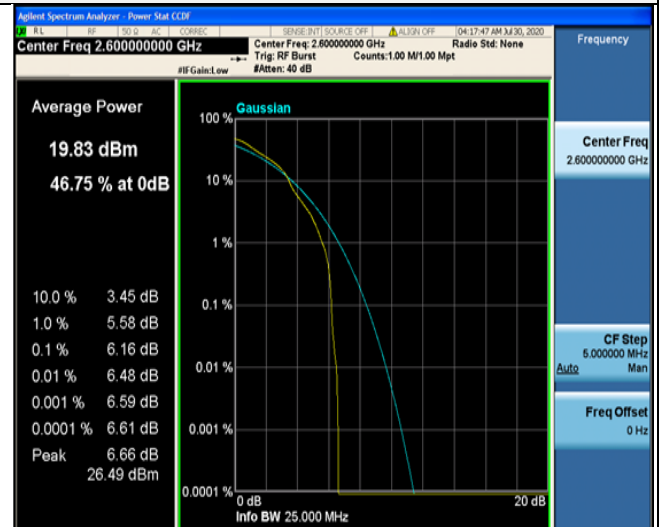


1RB#0

Middle Channel

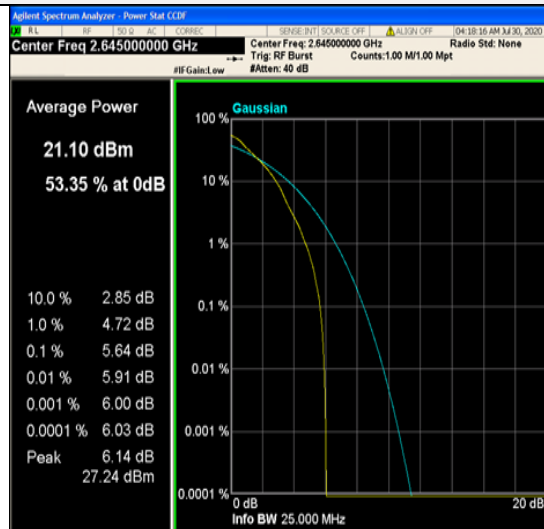


1RB#0



1RB#0

High Channel



1RB#0



1RB#0

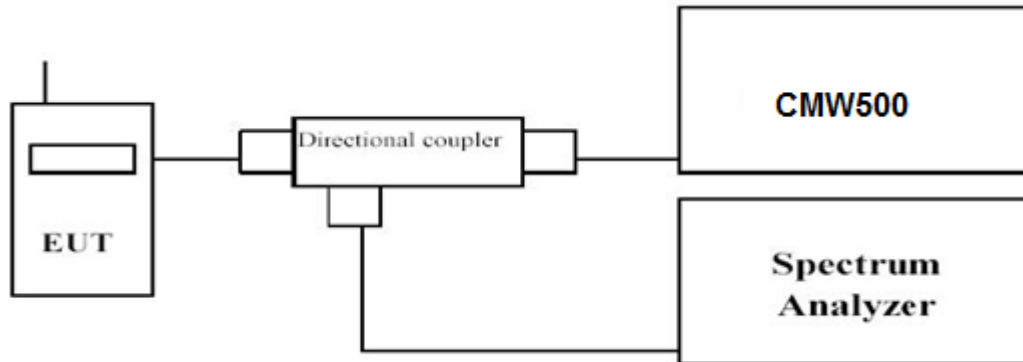


4.3 Occupied Bandwidth and Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and recorded. Set RBW was set to about 1% of emission BW, VBW ≥ 3 times RBW.

-26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST RESULTS

EUT :	Tablet PC	Test Date:	Jul. 30, 2020
Temperature:	25°C	Tested by:	Gary Qian
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage- Tx Mode		

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 41; recorded worst case for each Channel Bandwidth of LTE Band 41.

LTE Band 41						
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	99% Occupied bandwidth (MHz)		-26dBc Emission bandwidth (MHz)	
			QPSK	16QAM	QPSK	16QAM
5 MHz	25RB#0	2557.5	4.5027	4.4903	4.779	4.784
		2600.0	4.4976	4.4966	4.826	4.804
		2652.5	4.4972	4.5028	4.778	4.795
10 MHz	50RB#0	2560.0	8.9803	8.9745	9.489	9.507
		2600.0	8.9804	8.9742	9.514	9.493
		2650.0	8.9846	8.9658	9.505	9.507
15 MHz	75RB#0	2562.5	13.448	13.455	14.24	14.24
		2600.0	13.467	13.473	14.23	14.27
		2647.5	13.476	13.460	14.26	14.24
20 MHz	100RB#0	2570.0	17.941	17.942	18.93	18.94
		2600.0	17.927	17.953	18.95	18.95
		2640.0	17.918	17.911	18.96	18.93

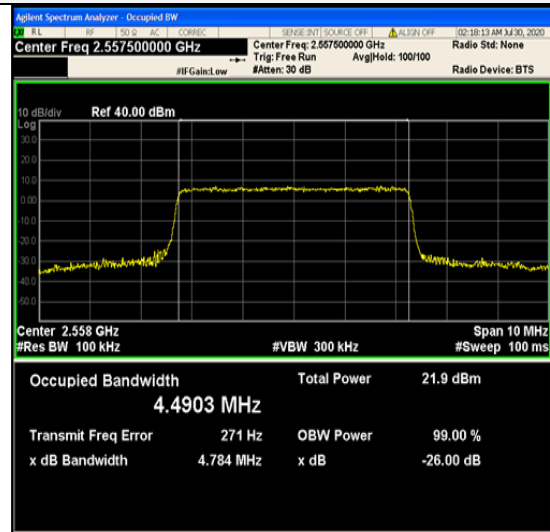
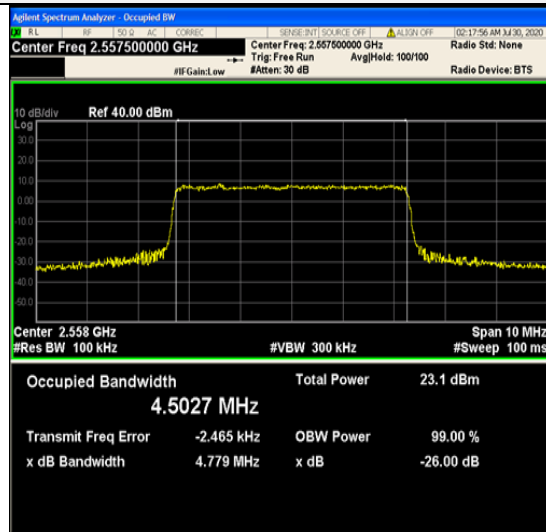


LTE Band 41-5MHz Channel Bandwidth Occupied Bandwidth and Emission Bandwidth

QPSK

16QAM

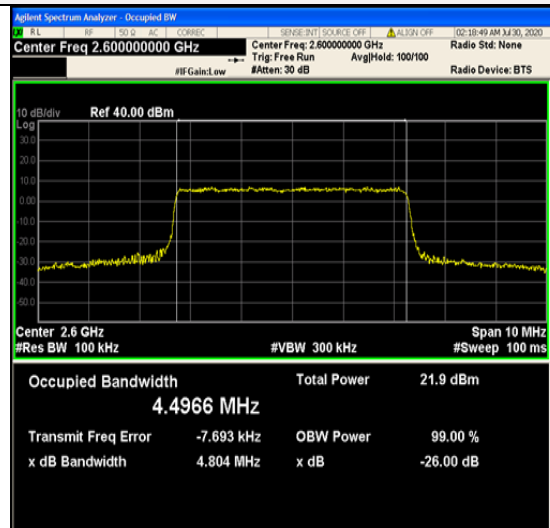
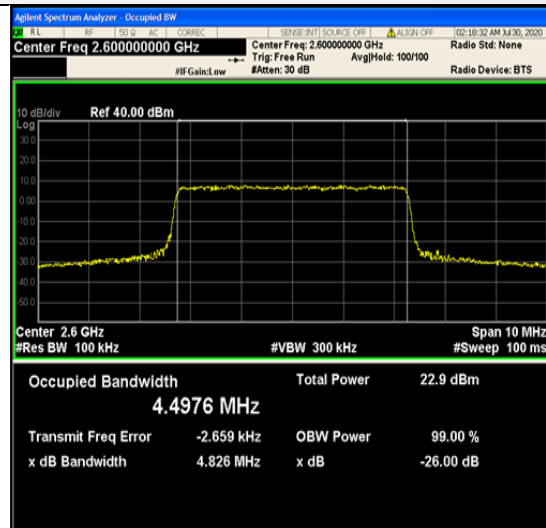
Low Channel



25RB#0

25RB#0

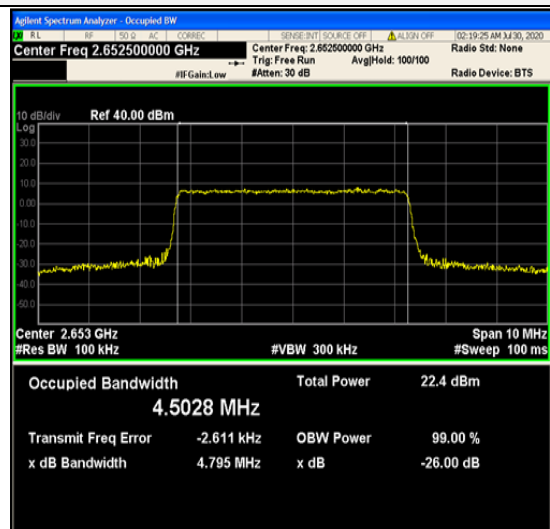
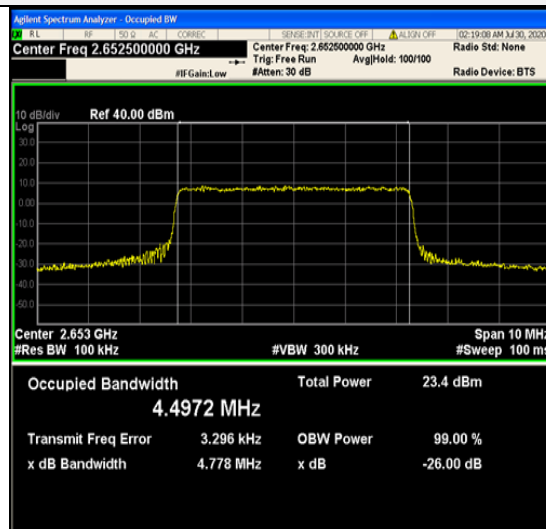
Middle Channel



25RB#0

25RB#0

High Channel



25RB#0

25RB#0

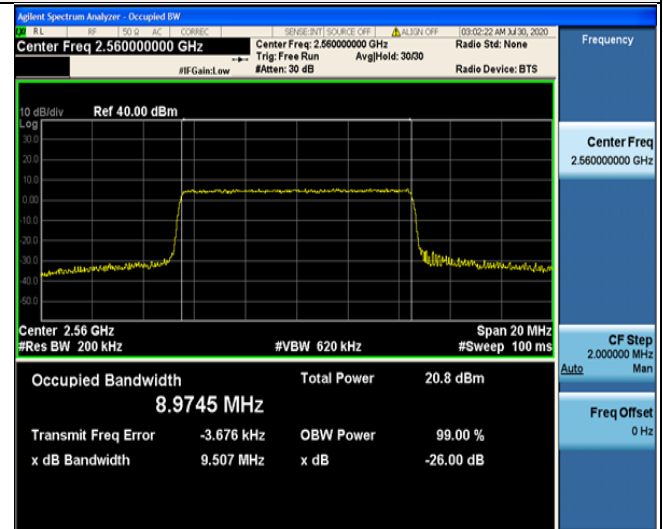
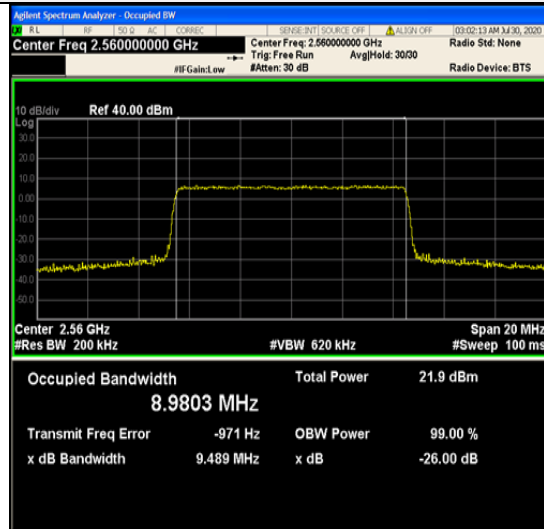


LTE Band 41-10MHz Channel Bandwidth Occupied Bandwidth and Emission Bandwidth

QPSK

16QAM

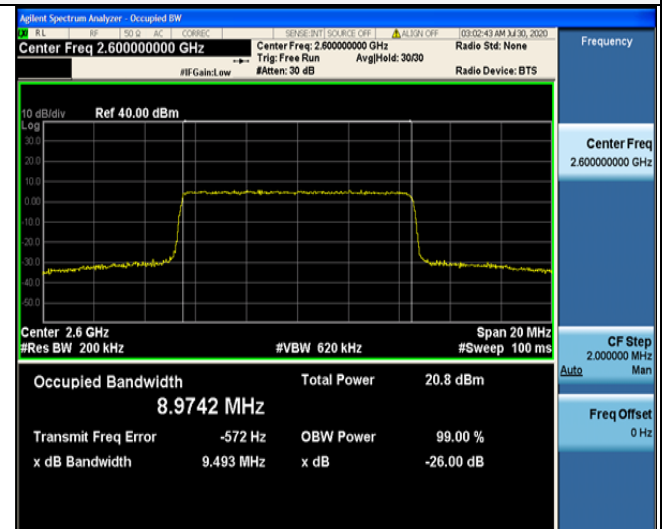
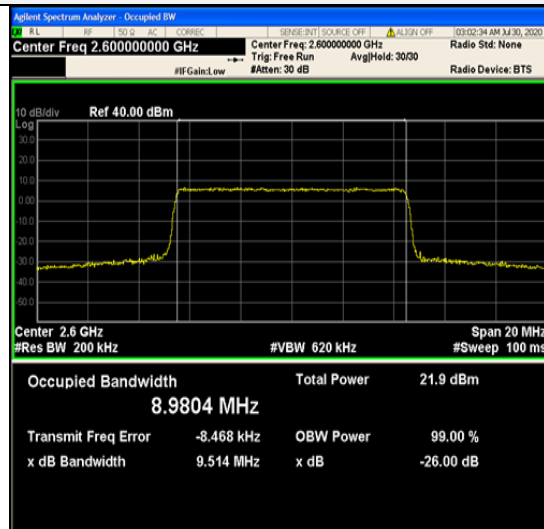
Low Channel



50RB#0

50RB#0

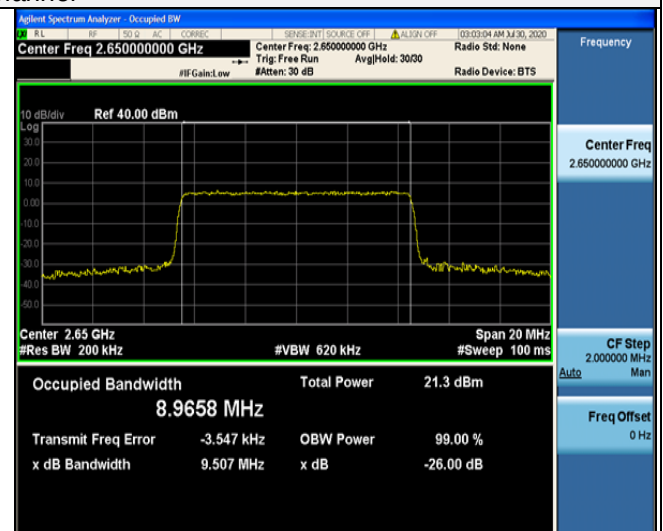
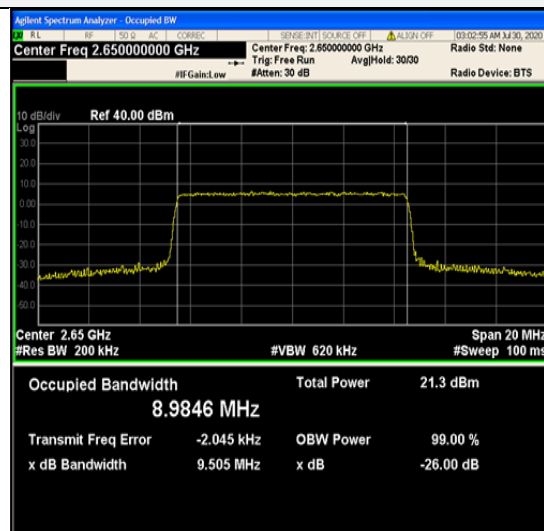
Middle Channel



50RB#0

50RB#0

High Channel



50RB#0

50RB#0

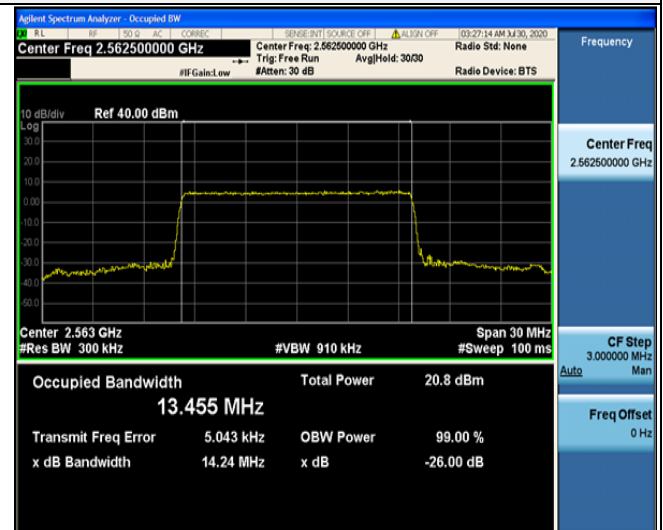
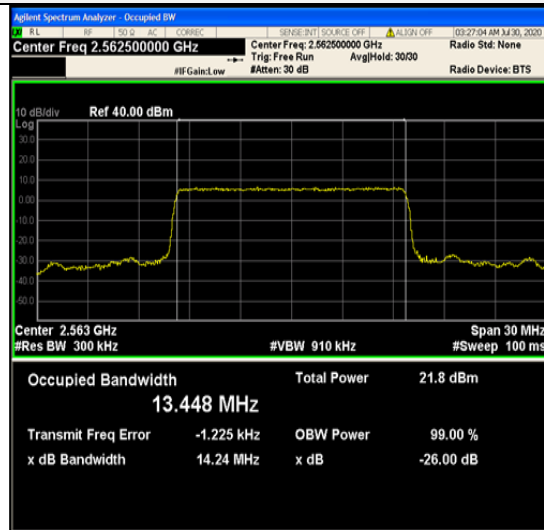


LTE Band 41-15MHz Channel Bandwidth Occupied Bandwidth and Emission Bandwidth

QPSK

16QAM

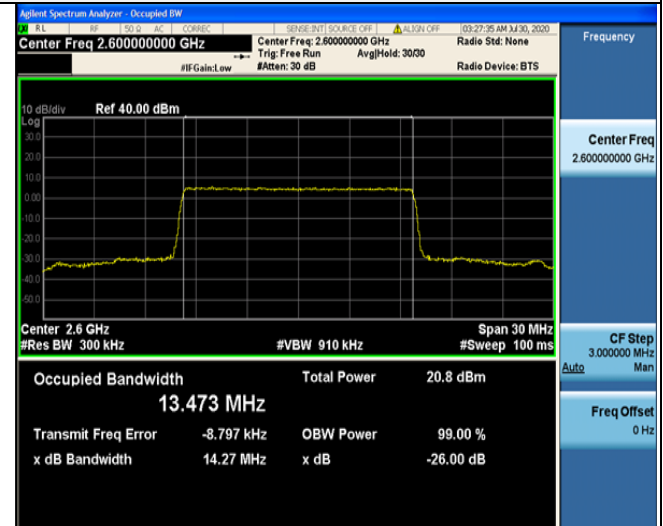
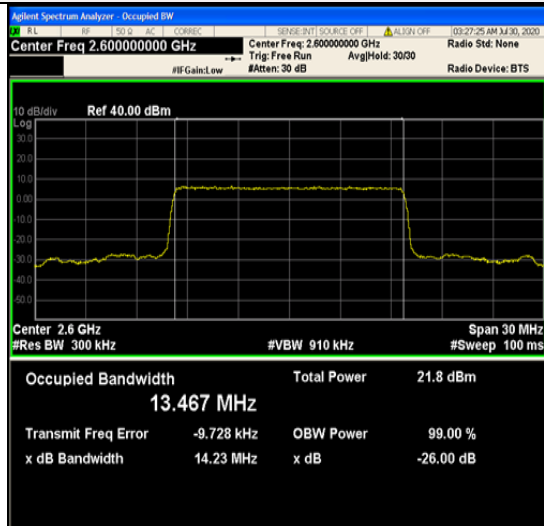
Low Channel



75RB#0

75RB#0

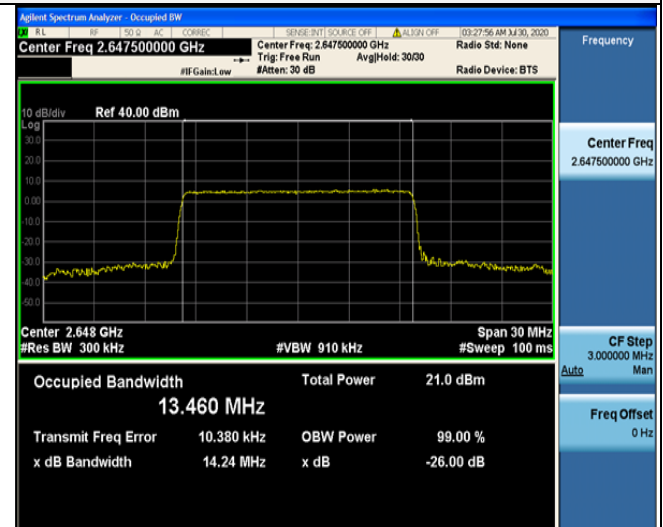
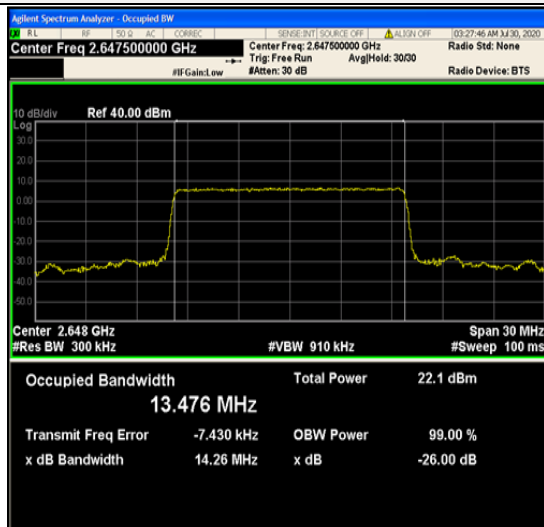
Middle Channel



75RB#0

75RB#0

High Channel



75RB#0

75RB#0

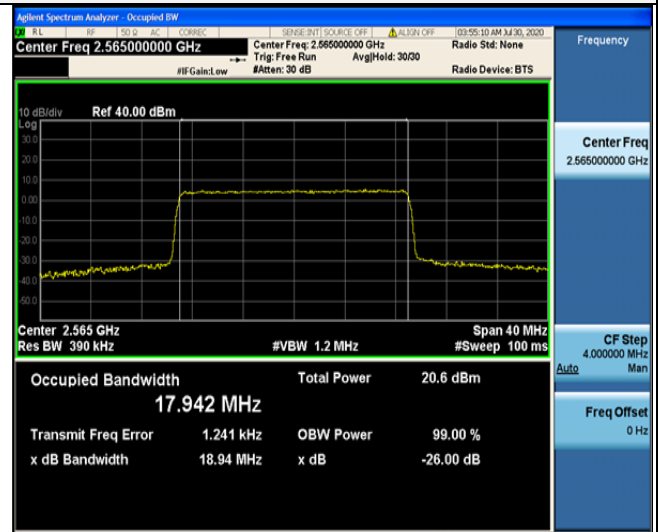
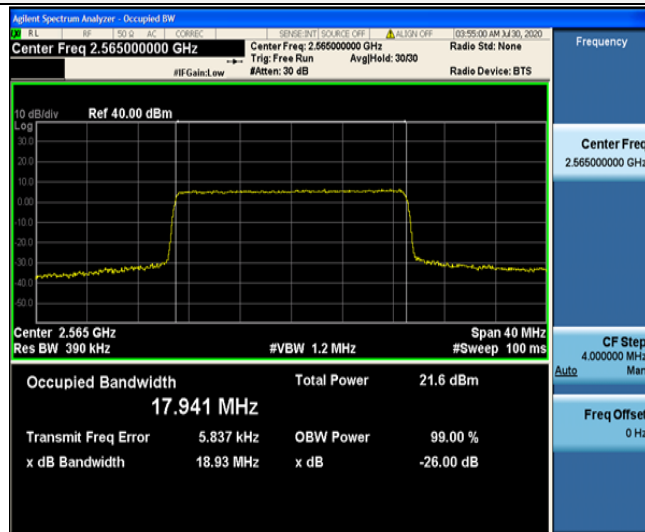


LTE Band 41-20MHz Channel Bandwidth Occupied Bandwidth and Emission Bandwidth

QPSK

16QAM

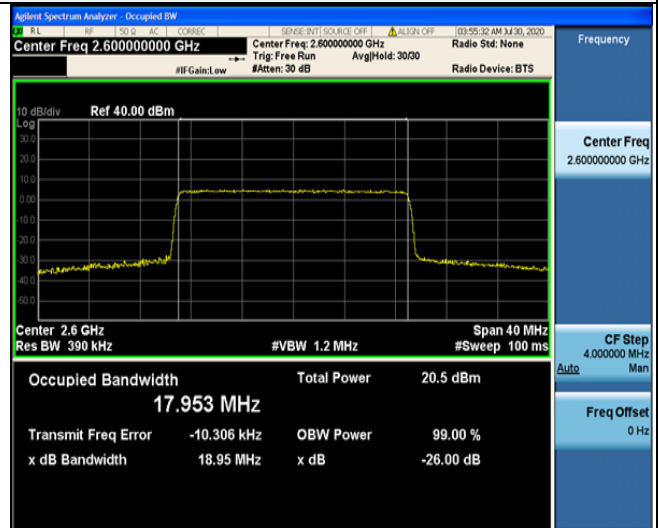
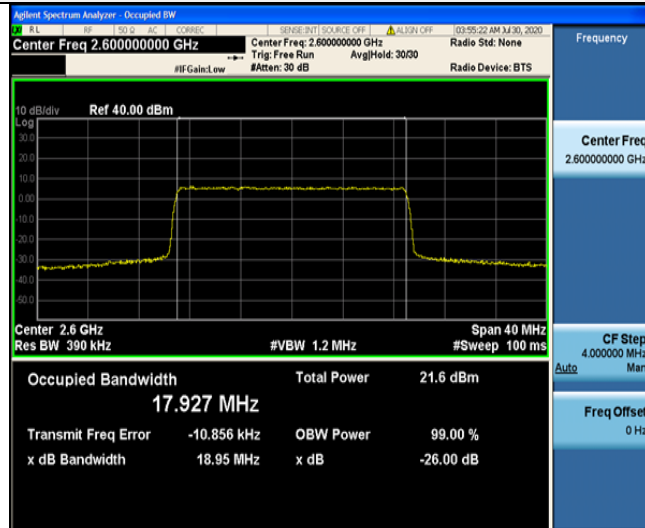
Low Channel



100RB#0

100RB#0

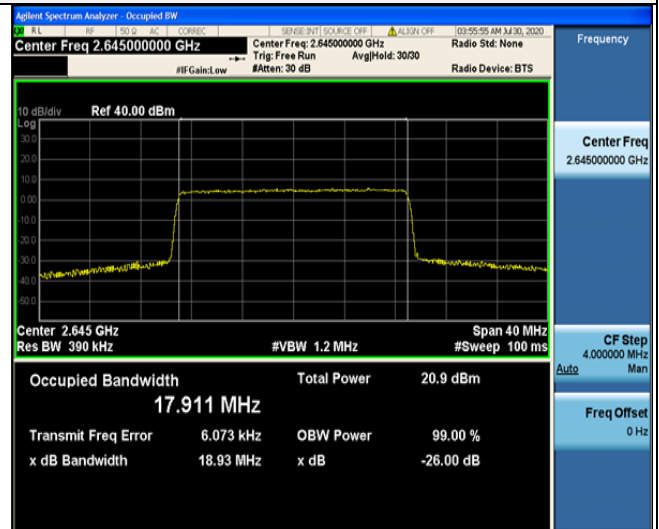
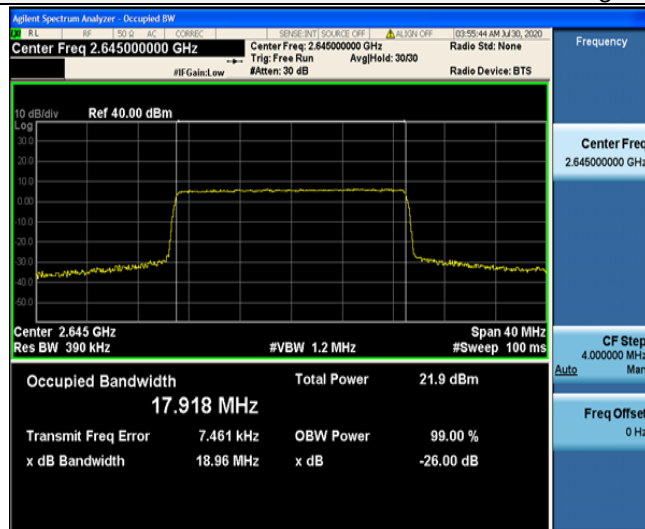
Middle Channel



100RB#0

100RB#0

High Channel



100RB#0

100RB#0

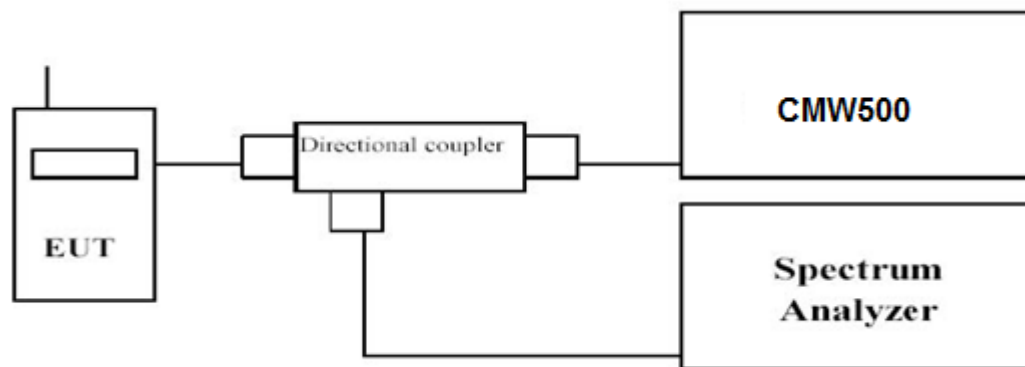


4.4 Band Edge compliance

LIMIT

the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $40 + 10 \log P$ dB (–10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge, $43 + 10 \log P$ dB (–13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge, and $55 + 10 \log P$ dB (–25 dBm, 3 nW) on all frequencies more than 20 MHz from the channel edge, where XMHz is the greater of 6 MHz or the actual emission bandwidth (26 dB).

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
3. Set EUT at maximum power through base station.
4. Select lowest and highest channels for each band and different modulation.
5. Measure Band edge using RMS (Average) detector by spectrum
6. Set RBW = 100 kHz, VBW=300 kHz, Span=50MHz Peak Detector.

TEST RESULTS

EUT :	Tablet PC	Test Date:	Jul. 30, 2020
Temperature:	25°C	Tested by:	Gary Qian
Humidity:	55 % RH	Test Voltage	Normal Voltage
Operation Mode:	Normal Voltage- Tx Mode		

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 41; recorded worst case for each Channel Bandwidth of LTE Band 41.

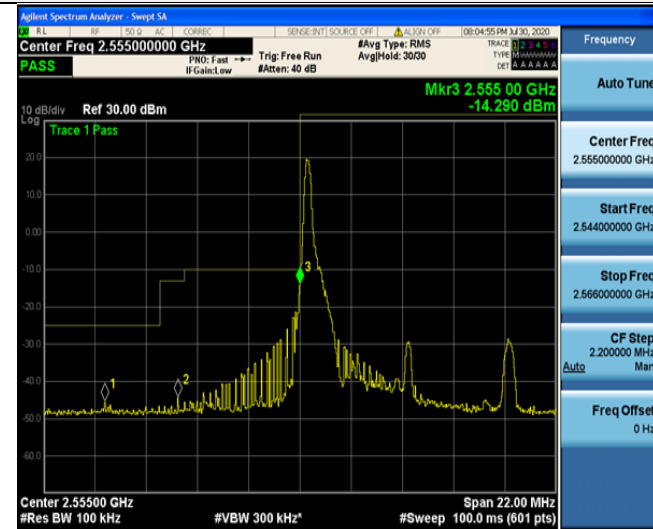


LTE Band 41-5MHz Channel BandwidthBand Edge Compliance

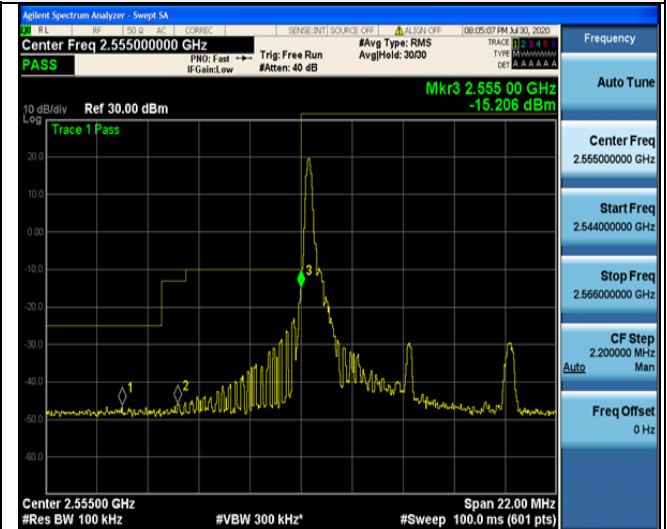
QPSK

16QAM

Low Channel

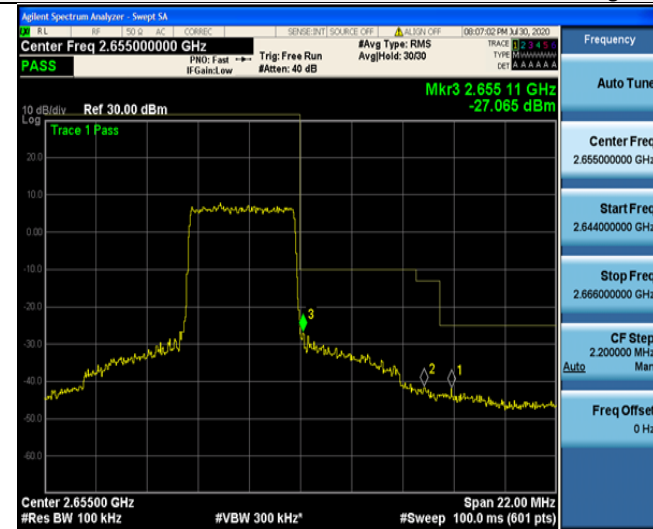


25RB#0



25RB#0

High Channel



25RB#0



25RB#0

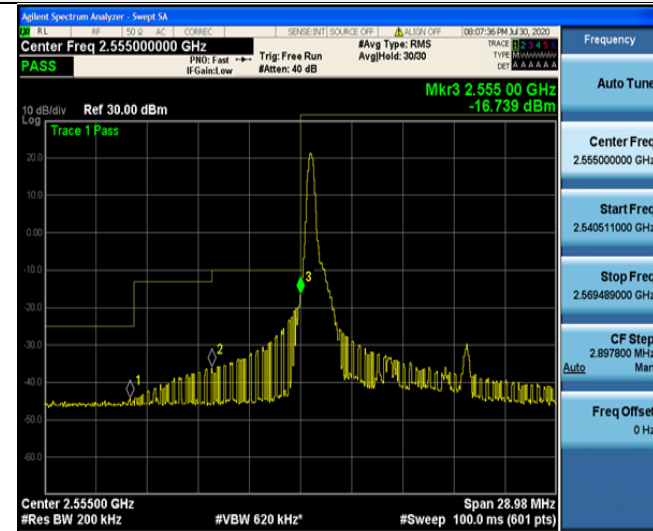


LTE Band 41– 10 MHz Channel BandwidthBand Edge Compliance

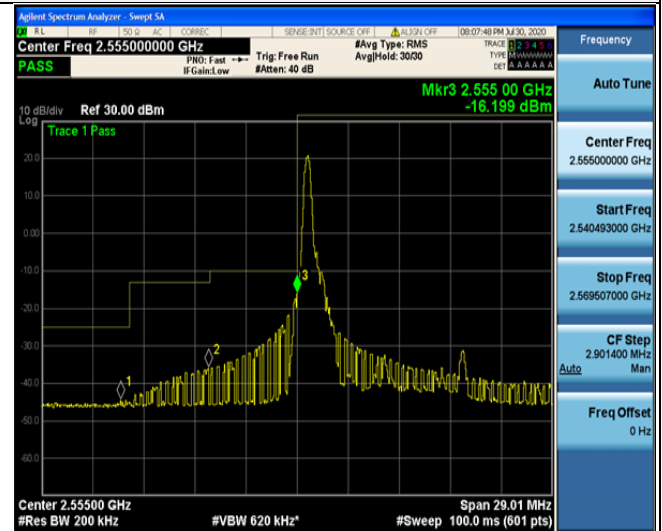
QPSK

16QAM

Low Channel

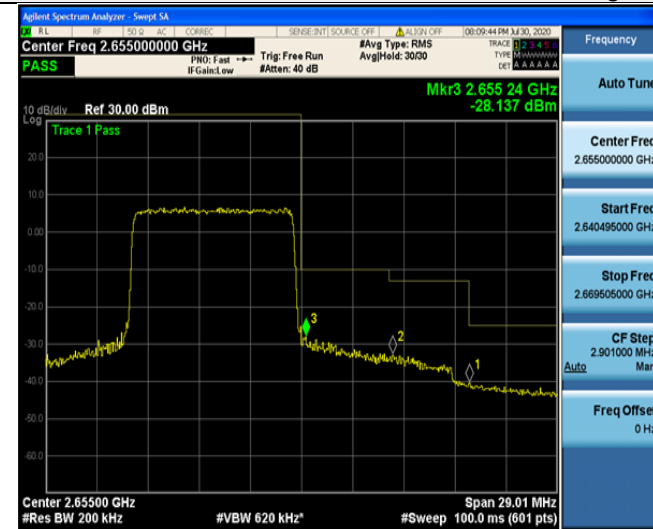


50RB#0



50RB#0

High Channel



50RB#0



50RB#0

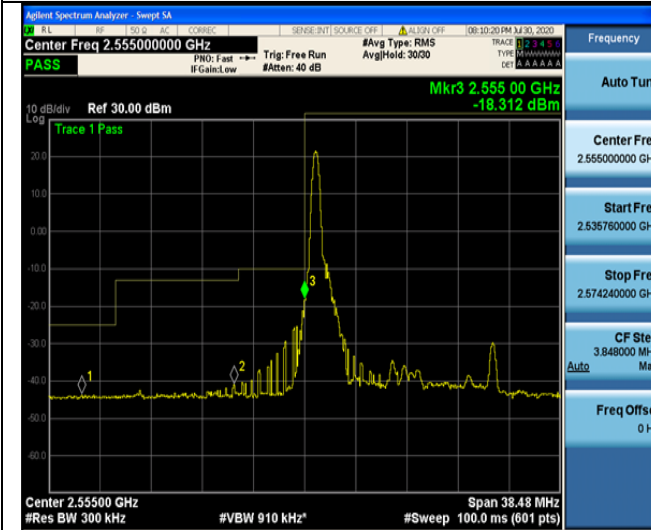


LTE Band 41–15MHz Channel BandwidthBand Edge Compliance

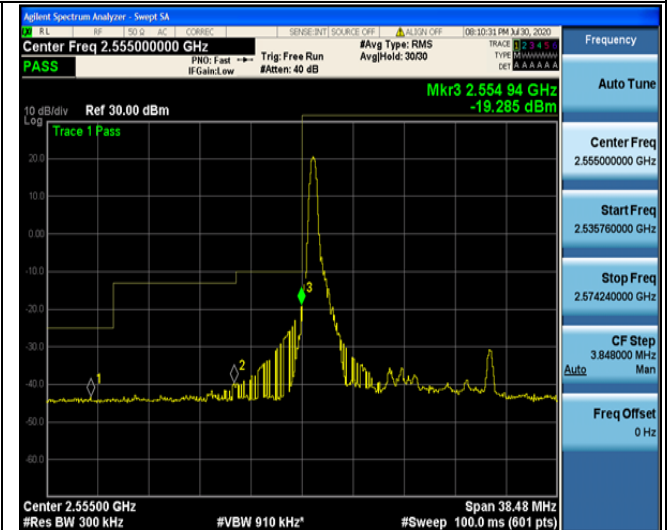
QPSK

16QAM

Low Channel



75RB#0



75RB#0

High Channel



75RB#0



75RB#0

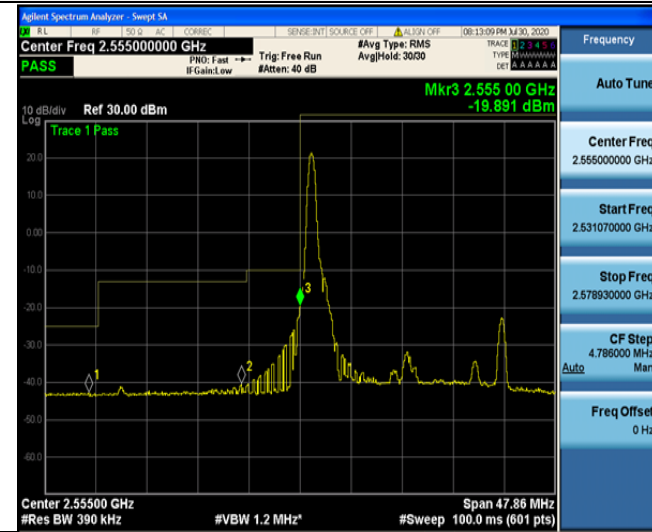


LTE Band 41–20MHz Channel BandwidthBand Edge Compliance

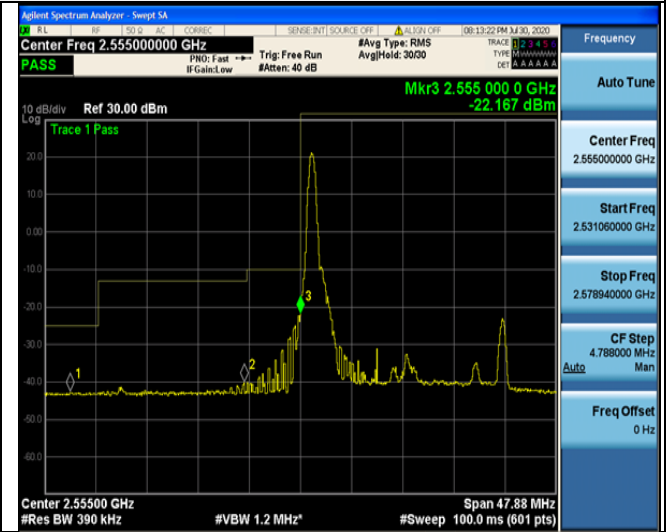
QPSK

16QAM

Low Channel



100RB#0



100RB#0

High Channel



100RB#0



100RB#0