

**TEST REPORT**  
**FCC Part 27****Report Reference No.**..... HK2110254033-9E**FCC ID**..... 2A3OE-GP08B

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Date of issue..... Nov. 05, 2021

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Science and Technology Park, Yuehai Subdistrict, Nanshan  
District, Shenzhen, 518057, P.R.China**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** ..... Stackable sharing charging station with LED screen

Trade Mark .....

**Manufacturer** ..... **Shenzhen Zhumang Technology Co., Ltd.**

Model/Type reference..... GP08B A1B8

Listed Models ..... GP08B A1B1, GP08B A1B2, GP08B A1B3, GP08B A1B4, GP08B  
A1B5, GP08B A1B6, GP08B A1B7

Modulation Type ..... QPSK, 16QAM

Rating ..... Input: 100-240V~50/60Hz 1.5A Max

Output: 5V  $\overline{\text{DC}}$  2A Max (per. layer) Max. Total Output : 80W

Hardware version ..... V1.0

Software version ..... V1.0

Result..... **PASS**

**TEST REPORT****Test Report No. :****HK2110254033-9E**

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**Equipment under Test** : Stackable sharing charging station with LED screen**Model /Type** : GP08B A1B8**Listed Models** : GP08B A1B1, GP08B A1B2, GP08B A1B3, GP08B A1B4,  
GP08B A1B5, GP08B A1B6, GP08B A1B7**Applicant** : **Shenzhen Zhumang Technology Co.,Ltd.****Address** : 10th Floor, Financial Technology Tower, No.11, Keyuan  
Road, Science and Technology Park, Yuehai Subdistrict,  
Nanshan District, Shenzhen, 518057, P.R.China**Manufacturer** : **Shenzhen Zhumang Technology Co.,Ltd.****Address** : 10th Floor, Financial Technology Tower, No.11, Keyuan  
Road, Science and Technology Park, Yuehai Subdistrict,  
Nanshan District, Shenzhen, 518057, P.R.China**Test result****Pass**

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.



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## 1.1 TEST STANDARDS

The tests were performed according to following standards:

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

[TIA/EIA 603 D June 2010](#):Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

47 CFR FCC Part 15 Subpart B: - Unintentional Radiators

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

[KDB971168 D01: v02r02](#) MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

## 1.2 Test Description

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 27.50(d)(4)	Pass
Peak-to-Average Ratio	Part 27.50(d)(4)	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 27.53(h)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 27.53(h)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 27.53(h)	Pass
Out of band emission, Band Edge	Part 2.1051 Part 27.53(h)	Pass
Frequency stability	Part 2.1055 Part 27.54	Pass





## 1.3 Information of the Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.  
Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,  
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.  
FCC Designation Number is CN1229.  
Canada IC CAB identifier is CN0045.  
CNAS Registration Number is L9589.

## 1.4 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen HUAKE Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen HUAKE Testing Technology Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	Above 1GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .



## 2 GENERAL INFORMATION

### 2.1 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

### 2.2 Description of Test Modes

The EUT has been tested under typical operating condition. The CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

Note:

1. For the ERP/EIRP and radiated emission test, every axis (X, Y, Z) was verified, and show the worst result on this report.
2. Test method and refer to 3GPP TS136521.

### 2.3 Test frequency list

TX Channel Bandwidth	Frequency (MHz)	channel
1.4 MHz	1710.7	131979
	1745	132322
	1779.3	132665
3 MHz	1711.5	131987
	1745	132322
	1778.5	132657
5 MHz	1712.5	131997
	1745	132322
	1777.5	132647
10 MHz	1715.0	132022
	1745	132322
	1775.0	132622
15 MHz	1717.5	132047
	1745	132322
	1772.5	132597
20 MHz	1720.0	132072
	1745	132322
	1770.0	132572



## 2.4 Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	ENV216	R&S	HKE-059	2020/12/10	2021/12/09
LISN	R&S	ENV216	HKE-002	2020/12/10	2021/12/09
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	2020/12/10	2021/12/09
Receiver	R&S	ESCI 7	HKE-010	2020/12/10	2021/12/09
Spectrum analyzer	Agilent	N9020A	HKE-048	2020/12/10	2021/12/09
RF automatic control unit	Tonscend	JS0806-2	HKE-060	2020/12/10	2021/12/09
Horn antenna	Schwarzbeck	9120D	HKE-013	2020/12/10	2021/12/09
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	2020/12/10	2021/12/09
Preamplifier	EMCI	EMC051845SE	HKE-015	2020/12/10	2021/12/09
Preamplifier	Agilent	83051A	HKE-016	2020/12/10	2021/12/09
Temperature and humidity meter	Boyang	HTC-1	HKE-075	2020/12/10	2021/12/09
High pass filter unit	Tonscend	JS0806-F	HKE-055	2020/12/10	2021/12/09
RF cable	Times	1-40G	HKE-034	2020/12/10	2021/12/09
Power meter	Agilent	E4419B	HKE-085	2020/12/10	2021/12/09
Power Sensor	Agilent	E9300A	HKE-086	2020/12/10	2021/12/09
Wireless Communication Test Set	R&S	CMW500	HKE-026	2020/12/10	2021/12/09
Wireless Communication Test Set	R&S	CMU200	HKE-029	2020/12/10	2021/12/09
High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	2020/12/10	2021/12/09
Horn antenna	Schwarzbeck	9120D	HKE-135	2020/12/10	2021/12/09
High gain antenna	Schwarzbeck	LB-180400KF	HKE-128	2020/12/10	2021/12/09
Broadband antenna	Schwarzbeck	VULB 9163	HKE-087	2020/12/10	2021/12/09
Signal generator	Agilent	E4433B	HKE-120	2020/12/10	2021/12/09
Signal generator	Agilent	E4421B	HKE-121	2020/12/10	2021/12/09

## 2.5 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2A3OE-GP08B filing to comply with of the FCC Part 27 Rules.

## 2.6 Modifications

No modifications were implemented to meet testing criteria.



### **3 TEST CONDITIONS AND RESULTS**

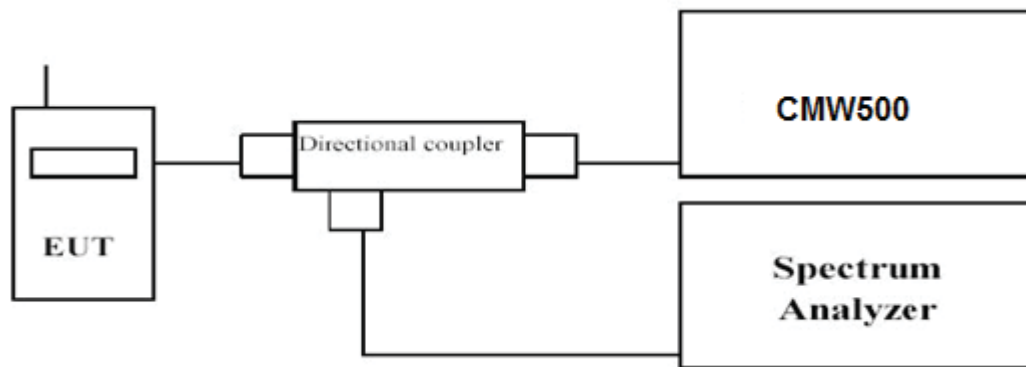
#### **3.1 Output Power**

##### **LIMIT**

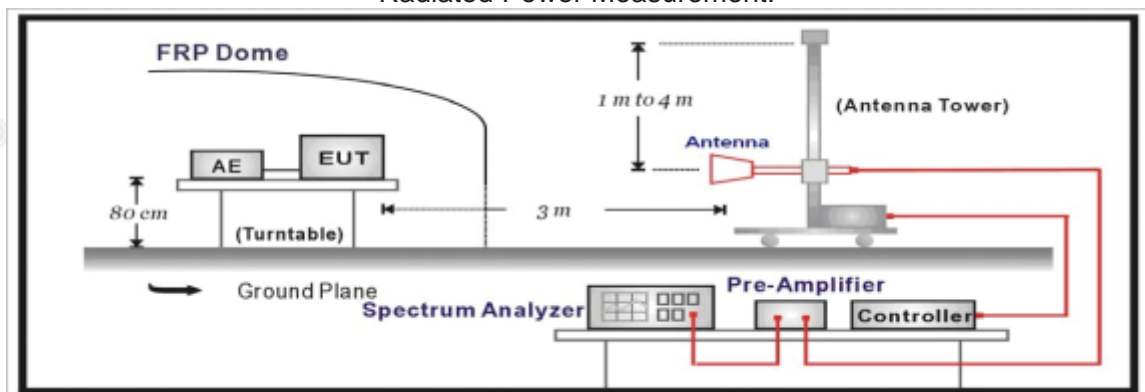
According to §27.50 (d) (4): Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

##### **TEST CONFIGURATION**

Conducted Power Measurement



Radiated Power Measurement:



##### **TEST PROCEDURE**

The EUT was setup according to EIA/TIA 603D

##### **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 spectrum analyzer and CMW500 by a Directional Couple.
- EUT Communicate with CMW500, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.

##### **Radiated Power Measurement:**

- 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.

- f. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g. 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.
- h. The maximum signal level detected by the measuring receiver shall be noted.
- i. The transmitter shall be replaced by a substitution antenna.
- j. 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.
- k. The substitution antenna shall be connected to a calibrated signal generator.
- l. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n. 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.
- o. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p. 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.
- q. Test site anechoic chamber refer to ANSI C63.4.

## TEST RESULTS

### Conducted Measurement:

LTE FDD Band 66				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	1710.7	1 RB low	23.52	22.09
		1 RB high	23.25	22.09
		50% RB mid	23.31	22.16
		100% RB	22.26	21.43
	1745	1 RB low	23.45	22.47
		1 RB high	23.43	22.50
		50% RB mid	23.40	22.15
		100% RB	23.67	22.30
	1779.3	1 RB low	23.26	22.43
		1 RB high	23.38	22.40
		50% RB mid	23.45	22.38
		100% RB	23.54	22.35
3 MHz	1711.5	1 RB low	22.39	21.47
		1 RB high	22.40	21.29
		50% RB mid	22.25	21.42
		100% RB	22.41	21.51
	1745	1 RB low	23.69	22.74
		1 RB high	23.42	22.60
		50% RB mid	23.49	22.49
		100% RB	22.78	21.78
	1778.5	1 RB low	23.30	22.48
		1 RB high	23.32	22.13
		50% RB mid	23.21	22.10
		100% RB	22.52	21.42
5 MHz	1712.5	1 RB low	22.32	21.38
		1 RB high	22.32	21.38
		50% RB mid	22.24	21.17
		100% RB	22.23	21.58

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	1745	1 RB low	23.65	22.60
		1 RB high	23.62	22.39
		50% RB mid	23.39	22.43
		100% RB	22.61	21.77
	1777.5	1 RB low	23.34	22.20
		1 RB high	23.36	21.52
		50% RB mid	23.21	21.30
		100% RB	22.54	21.28
10 MHz	1715.0	1 RB low	22.49	21.54
		1 RB high	22.40	21.45
		50% RB mid	22.37	21.42
		100% RB	22.44	21.40
	1745	1 RB low	23.66	22.80
		1 RB high	23.45	22.75
		50% RB mid	23.18	22.38
		100% RB	22.66	21.59
	1775.0	1 RB low	23.01	21.94
		1 RB high	23.65	22.86
		50% RB mid	23.29	22.03
		100% RB	22.40	21.49
15 MHz	1717.5	1 RB low	23.00	22.42
		1 RB high	22.46	22.45
		50% RB mid	22.61	22.60
		100% RB	22.52	21.56
	1745	1 RB low	23.61	22.79
		1 RB high	23.38	22.87
		50% RB mid	23.03	22.25
		100% RB	22.87	22.86
	1772.5	1 RB low	23.15	22.18
		1 RB high	23.17	22.44
		50% RB mid	23.18	22.27
		100% RB	22.25	22.17
20 MHz	1720.0	1 RB low	22.53	21.61
		1 RB high	22.54	21.61
		50% RB mid	22.75	21.83
		100% RB	22.53	21.58
	1745	1 RB low	23.82	22.88
		1 RB high	23.81	23.06
		50% RB mid	23.26	22.44
		100% RB	22.86	21.93
	1770.0	1 RB low	23.18	22.80
		1 RB high	23.36	23.10
		50% RB mid	23.36	22.90
		100% RB	22.17	21.38

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## Radiated Measurement:

Remark:

- We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 66; recorded worst case for each Channel Bandwidth of LTE FDD Band 66.
- $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + P_{Ag}(dB) + G_a(dBi)$

### LTE FDD Band 66\_Channel Bandwidth 1.4MHz\_QPSK

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	P <sub>Ag</sub> (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.7	-16.26	3.06	9.68	34.80	25.16	30.00	4.84	V
1745	-16.56	3.17	9.68	34.80	24.75	30.00	5.25	V
1779.3	-16.87	3.22	9.75	34.80	24.46	30.00	5.54	V
1710.7	-16.46	3.06	9.68	34.80	24.96	30.00	5.04	H
1745	-17.31	3.17	9.68	34.80	24	30.00	6	H
1779.3	-17.73	3.22	9.75	34.80	23.6	30.00	6.4	H

### LTE FDD Band 66\_Channel Bandwidth 3MHz\_QPSK

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	P <sub>Ag</sub> (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.5	-16.58	3.06	9.68	34.80	24.84	30.00	5.16	V
1745	-17.43	3.17	9.68	34.80	23.88	30.00	6.12	V
1778.5	-17.05	3.22	9.75	34.80	24.28	30.00	5.72	V
1711.5	-17.06	3.06	9.68	34.80	24.36	30.00	5.64	H
1745	-17.3	3.17	9.68	34.80	24.01	30.00	5.99	H
1778.5	-17.79	3.22	9.75	34.80	23.54	30.00	6.46	H

### LTE FDD Band 66\_Channel Bandwidth 5MHz\_QPSK

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	P <sub>Ag</sub> (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.5	-16.67	3.06	9.68	34.80	24.75	30.00	5.25	V
1745	-17.33	3.17	9.68	34.80	23.98	30.00	6.02	V
1777.5	-17.76	3.22	9.75	34.80	23.57	30.00	6.43	V
1712.5	-16.66	3.06	9.68	34.80	24.76	30.00	5.24	H
1745	-16.83	3.17	9.68	34.80	24.48	30.00	5.52	H
1777.5	-18.09	3.22	9.75	34.80	23.24	30.00	6.76	H

### LTE FDD Band 66\_Channel Bandwidth 10MHz\_QPSK

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	P <sub>Ag</sub> (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.0	-16.75	3.06	9.68	34.80	24.67	30.00	5.33	V
1745	-16.99	3.17	9.68	34.80	24.32	30.00	5.68	V
1775.0	-16.95	3.22	9.75	34.80	24.38	30.00	5.62	V
1715.0	-16.99	3.06	9.68	34.80	24.43	30.00	5.57	H
1745	-16.99	3.17	9.68	34.80	24.32	30.00	5.68	H
1775.0	-17.74	3.22	9.75	34.80	23.59	30.00	6.41	H

### LTE FDD Band 66\_Channel Bandwidth 15MHz\_QPSK

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	P <sub>Ag</sub> (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.5	-16.55	3.06	9.68	34.80	24.87	30.00	5.13	V
1745	-16.82	3.17	9.68	34.80	24.49	30.00	5.51	V
1772.5	-17.07	3.22	9.75	34.80	24.26	30.00	5.74	V
1717.5	-16.57	3.06	9.68	34.80	24.85	30.00	5.15	H
1745	-16.77	3.17	9.68	34.80	24.54	30.00	5.46	H
1772.5	-17.94	3.22	9.75	34.80	23.39	30.00	6.61	H

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## LTE FDD Band 66\_Channel Bandwidth 20MHz\_QPSK

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	P <sub>Ag</sub> (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.0	-16.07	3.06	9.68	34.80	25.35	30.00	4.65	V
1745	-17.31	3.17	9.68	34.80	24	30.00	6	V
1770.0	-17.06	3.22	9.75	34.80	24.27	30.00	5.73	V
1720.0	-16.97	3.06	9.68	34.80	24.45	30.00	5.55	H
1745	-17.65	3.17	9.68	34.80	23.66	30.00	6.34	H
1770.0	-17.27	3.22	9.75	34.80	24.06	30.00	5.94	H

## LTE FDD Band 66\_Channel Bandwidth 1.4MHz\_16QAM

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	P <sub>Ag</sub> (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.7	-16.3	3.06	9.68	34.80	25.12	30.00	4.88	V
1745	-17.45	3.17	9.68	34.80	23.86	30.00	6.14	V
1779.3	-17.39	3.22	9.75	34.80	23.94	30.00	6.06	V
1710.7	-17.14	3.06	9.68	34.80	24.28	30.00	5.72	H
1745	-17.46	3.17	9.68	34.80	23.85	30.00	6.15	H
1779.3	-17.93	3.22	9.75	34.80	23.4	30.00	6.6	H

## LTE FDD Band 66\_Channel Bandwidth 3MHz\_16QAM

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	P <sub>Ag</sub> (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.5	-16.15	3.06	9.68	34.80	25.27	30.00	4.73	V
1745	-16.58	3.17	9.68	34.80	24.73	30.00	5.27	V
1778.5	-16.95	3.22	9.75	34.80	24.38	30.00	5.62	V
1711.5	-16.84	3.06	9.68	34.80	24.58	30.00	5.42	H
1745	-16.92	3.17	9.68	34.80	24.39	30.00	5.61	H
1778.5	-17.48	3.22	9.75	34.80	23.85	30.00	6.15	H

## LTE FDD Band 66\_Channel Bandwidth 5MHz\_16QAM

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	P <sub>Ag</sub> (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.5	-16.62	3.06	9.68	34.80	24.8	30.00	5.2	V
1745	-17.09	3.17	9.68	34.80	24.22	30.00	5.78	V
1777.5	-17.17	3.22	9.75	34.80	24.16	30.00	5.84	V
1712.5	-16.92	3.06	9.68	34.80	24.5	30.00	5.5	H
1745	-16.92	3.17	9.68	34.80	24.39	30.00	5.61	H
1777.5	-17.78	3.22	9.75	34.80	23.55	30.00	6.45	H

## LTE FDD Band 66\_Channel Bandwidth 10MHz\_16QAM

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	P <sub>Ag</sub> (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.0	-16.92	3.06	9.68	34.80	24.5	30.00	5.5	V
1745	-17.23	3.17	9.68	34.80	24.08	30.00	5.92	V
1775.0	-17.55	3.22	9.75	34.80	23.78	30.00	6.22	V
1715.0	-16.45	3.06	9.68	34.80	24.97	30.00	5.03	H
1745	-17.28	3.17	9.68	34.80	24.03	30.00	5.97	H
1775.0	-17.46	3.22	9.75	34.80	23.87	30.00	6.13	H



*LTE FDD Band 66\_Channel Bandwidth 15MHz\_16QAM*

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	P <sub>Ag</sub> (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.5	-17.03	3.06	9.68	34.80	24.39	30.00	5.61	V
1745	-17.39	3.17	9.68	34.80	23.92	30.00	6.08	V
1772.5	-17.68	3.22	9.75	34.80	23.65	30.00	6.35	V
1717.5	-17.06	3.06	9.68	34.80	24.36	30.00	5.64	H
1745	-16.93	3.17	9.68	34.80	24.38	30.00	5.62	H
1772.5	-17.32	3.22	9.75	34.80	24.01	30.00	5.99	H

*LTE FDD Band 66\_Channel Bandwidth 20MHz\_16QAM*

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	G <sub>a</sub> Antenna Gain(dB)	P <sub>Ag</sub> (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.0	-16.17	3.06	9.68	34.80	25.25	30.00	4.75	V
1745	-16.82	3.17	9.68	34.80	24.49	30.00	5.51	V
1770.0	-16.82	3.22	9.75	34.80	24.51	30.00	5.49	V
1720.0	-16.29	3.06	9.68	34.80	25.13	30.00	4.87	H
1745	-16.85	3.17	9.68	34.80	24.46	30.00	5.54	H
1770.0	-18.05	3.22	9.75	34.80	23.28	30.00	6.72	H

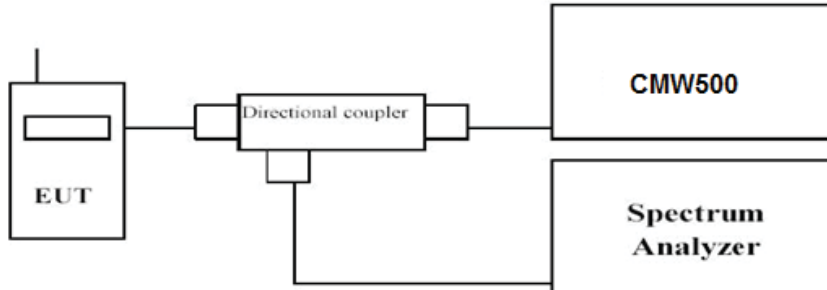


### 3.3 Peak-to-Average Ratio (PAR)

#### 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

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 66; recorded worst case for each Channel Bandwidth of LTE FDD Band 66.

LTE FDD Band 66				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	PAPR (dB)	
			QPSK	16QAM
1.4 MHz	1710.7	1RB#0	3.81	4.86
	1745		4.34	5.33
	1779.3		3.31	4.13
3 MHz	1711.5	1RB#0	3.84	4.80
	1745		4.33	5.16
	1778.5		3.34	4.46
5 MHz	1712.5	1RB#0	3.89	4.77
	1745		4.33	5.23
	1777.5		3.33	4.07
10 MHz	1715.0	1RB#0	3.80	4.69
	1745		4.28	5.21
	1775.0		3.78	4.89
15 MHz	1717.5	1RB#0	3.93	4.64
	1745		4.41	5.22
	1772.5		4.09	5.03
20 MHz	1720.0	1RB#0	3.78	4.65
	1745		4.35	5.16
	1770.0		4.26	5.04

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## LTE FDD Band 66-1.4MHz Channel Bandwidth PAPR

### QPSK



1RB#0

### 16QAM



1RB#0

### Low Channel



1RB#0



1RB#0

### Middle Channel



1RB#0



1RB#0

### High Channel

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## LTE FDD Band 66-3MHz Channel Bandwidth PAPR

### QPSK



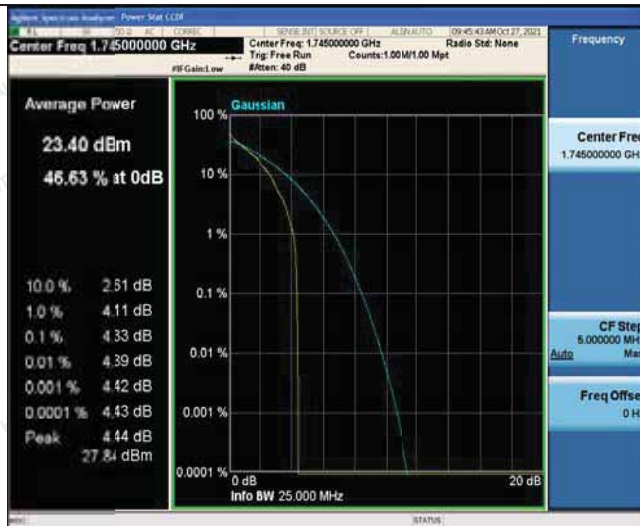
1RB#0

### 16QAM



1RB#0

### Low Channel



1RB#0



1RB#0

### Middle Channel



1RB#0



1RB#0

### High Channel

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## LTE FDD Band 66-5MHz Channel Bandwidth PAPR

### QPSK



1RB#0

### 16QAM



1RB#0

### Low Channel



1RB#0



1RB#0

### Middle Channel



1RB#0



1RB#0

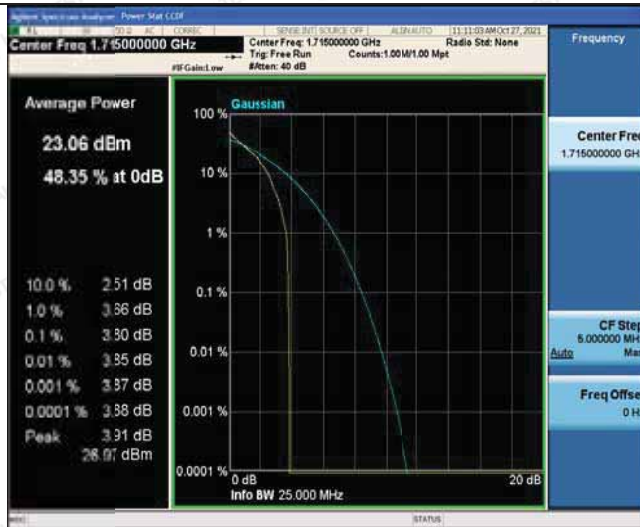
### High Channel

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## LTE FDD Band 66-10MHz Channel Bandwidth PAPR

### QPSK



1RB#0

### 16QAM



1RB#0

### Low Channel



1RB#0



1RB#0

### Middle Channel



1RB#0



1RB#0

### High Channel

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## LTE FDD Band 66-15MHz Channel Bandwidth PAPR

### QPSK



1RB#0

### 16QAM

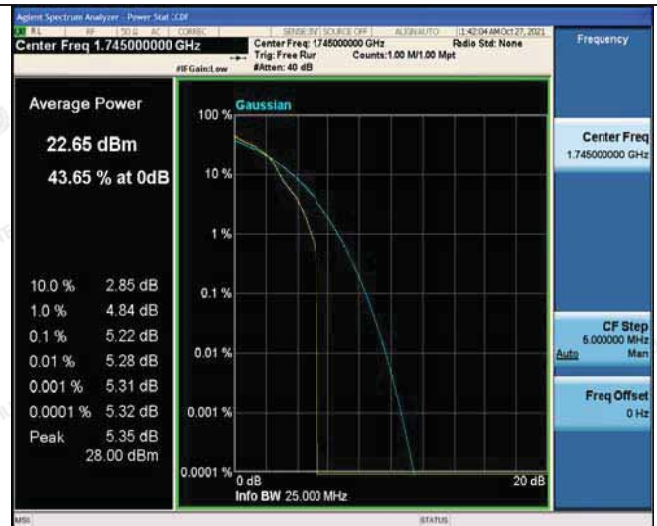


1RB#0

### Low Channel

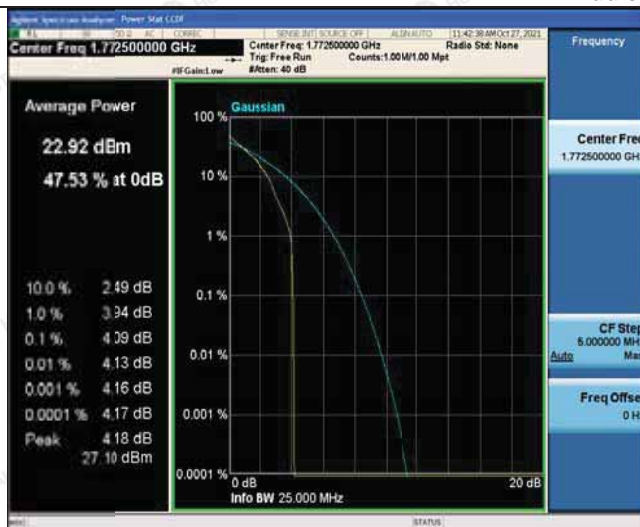


1RB#0



1RB#0

### Middle Channel



1RB#0



1RB#0

### High Channel

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## LTE FDD Band 66-20MHz Channel Bandwidth PAPR

### QPSK



1RB#0

### 16QAM



1RB#0

### Low Channel



1RB#0

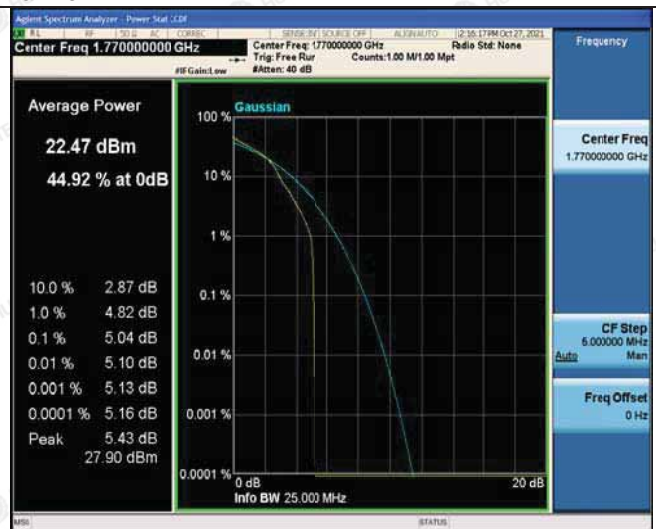


1RB#0

### Middle Channel



1RB#0



1RB#0

### High Channel

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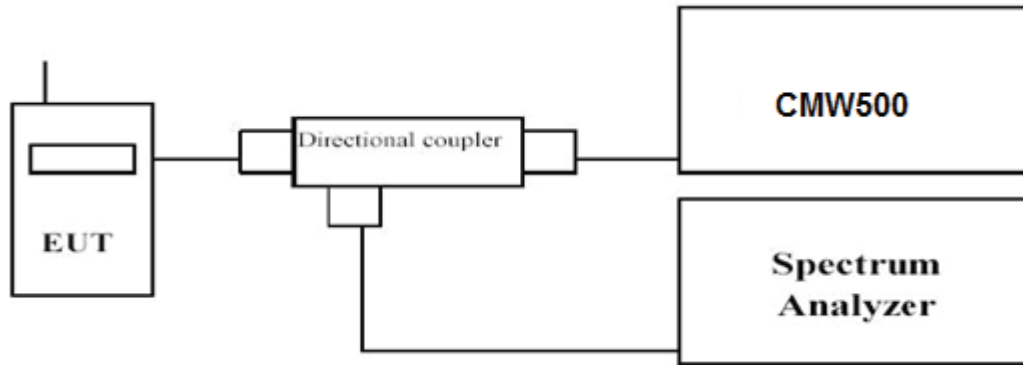


### 3.4 Occupied Bandwidth and Emission Bandwidth

#### 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.

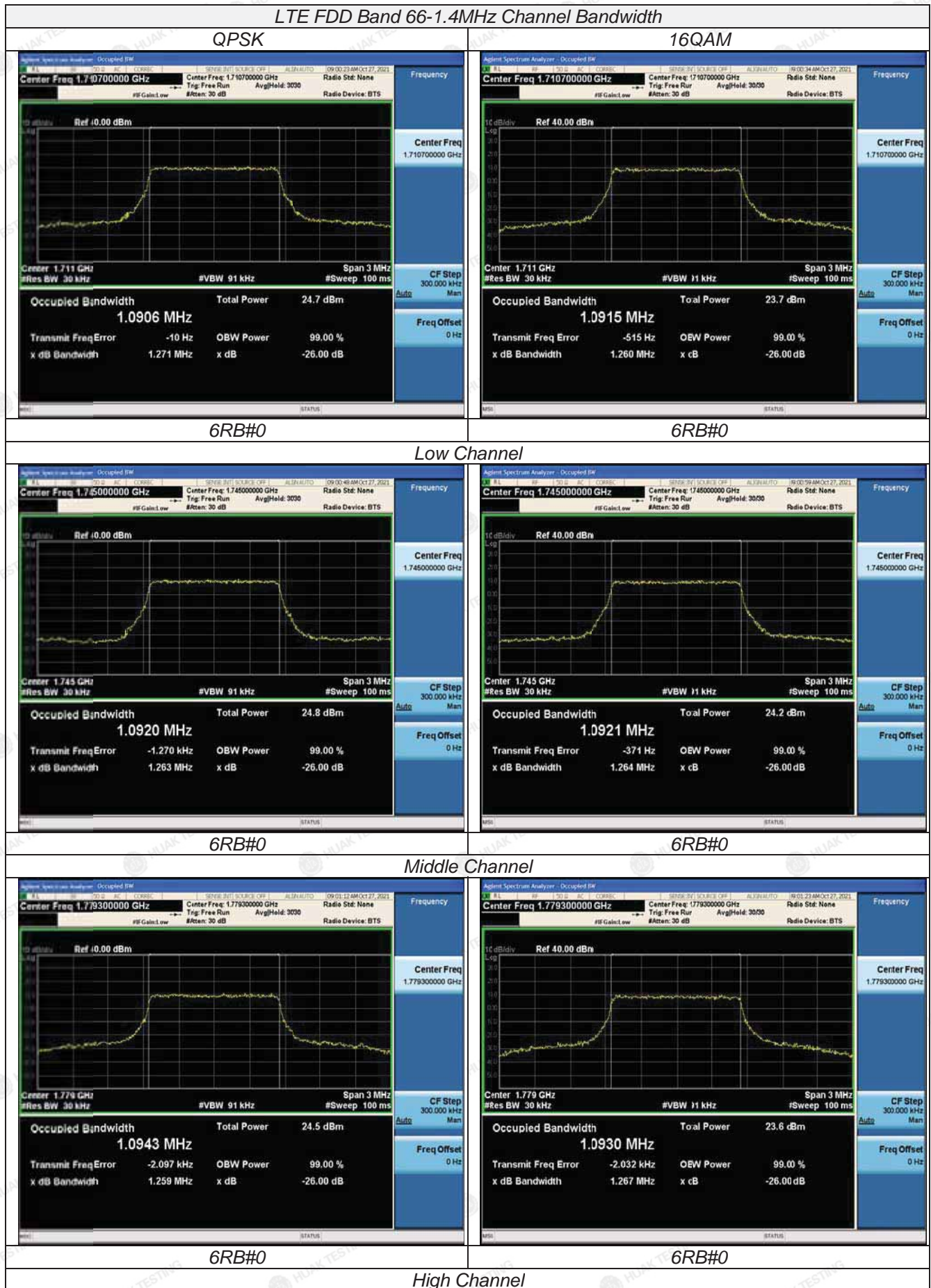
#### TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 66; recorded worst case for each Channel Bandwidth of LTE FDD Band 66.

LTE FDD Band 66						
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	-26dBc Emission bandwidth (MHz)		99% Occupied bandwidth (MHz)	
			QPSK	16QAM	QPSK	16QAM
1.4 MHz	6RB#0	1710.7	1.271	1.260	1.0906	1.0915
		1745	1.263	1.264	1.0920	1.0921
		1779.3	1.259	1.267	1.0943	1.0930
3 MHz	15RB#0	1711.5	2.906	2.899	2.6953	2.6919
		1745	2.902	2.925	2.6961	2.6884
		1778.5	2.937	2.908	2.6962	2.6938
5 MHz	25RB#0	1712.5	4.903	4.894	4.4994	4.5026
		1745	4.897	4.863	4.4997	4.5042
		1777.5	4.886	4.901	4.4947	4.4988
10 MHz	50RB#0	1715.0	9.554	9.546	8.9555	8.9465
		1745	9.559	9.524	8.9626	8.9529
		1775.0	9.533	9.516	8.9493	8.9539
15 MHz	75RB#0	1717.5	14.31	14.28	13.447	13.423
		1745	14.25	14.25	13.435	13.424
		1772.5	14.29	14.25	13.406	13.417
20 MHz	100RB#0	1720.0	18.93	18.94	17.902	17.896
		1745	18.95	18.93	17.887	17.871
		1770.0	18.97	18.94	17.869	17.881

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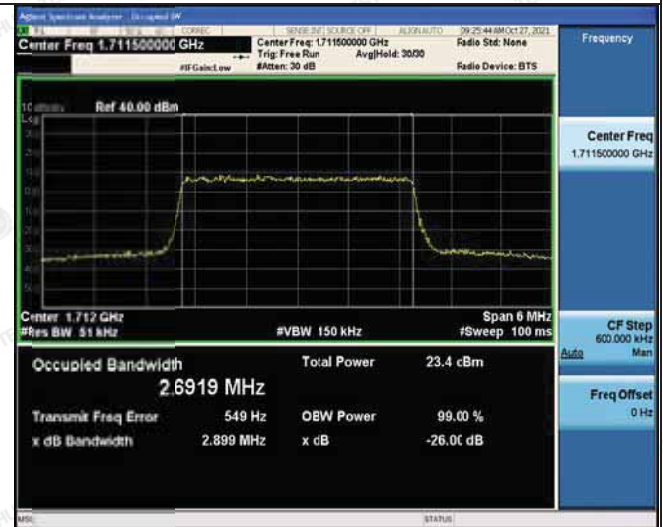


## LTE FDD Band 66-3MHz Channel Bandwidth

### QPSK



### 16QAM



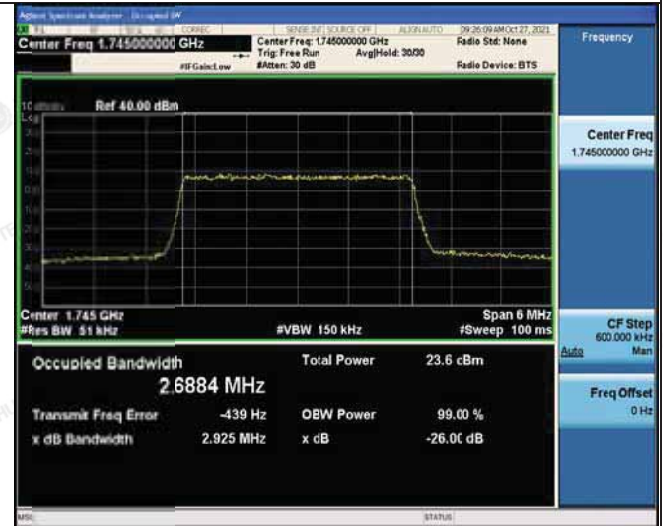
15RB#0

15RB#0

### Low Channel



15RB#0

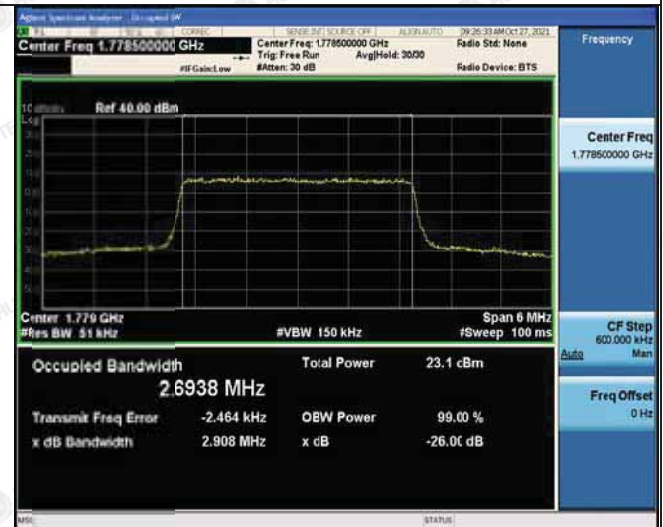


15RB#0

### Middle Channel



15RB#0



15RB#0

### High Channel

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## LTE FDD Band 66-5MHz Channel Bandwidth

### QPSK



25RB#0

### 16QAM



25RB#0

### Low Channel



25RB#0

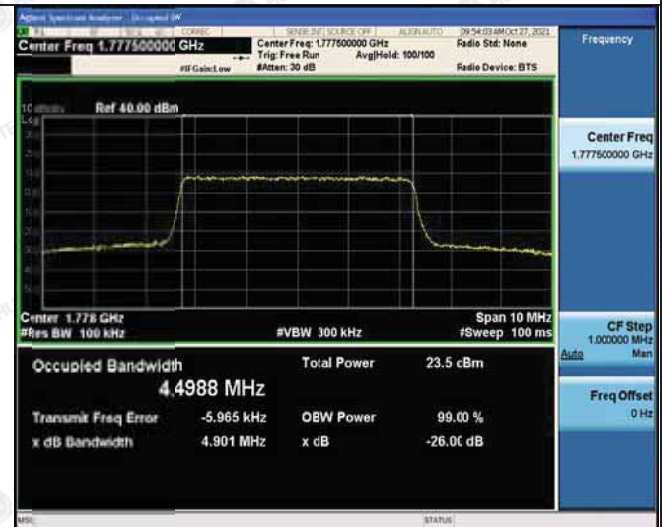


25RB#0

### Middle Channel



25RB#0



25RB#0

### High Channel

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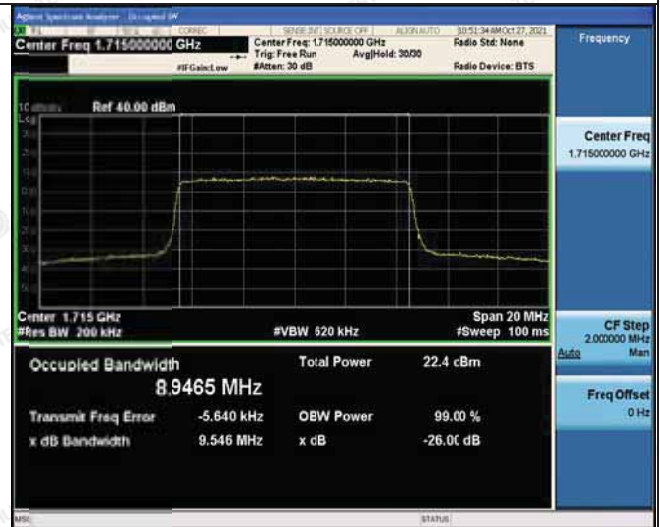


## LTE FDD Band 66-10MHz Channel Bandwidth

### QPSK



### 16QAM



50RB#0

50RB#0

### Low Channel



50RB#0



50RB#0

### Middle Channel



50RB#0



50RB#0

### High Channel

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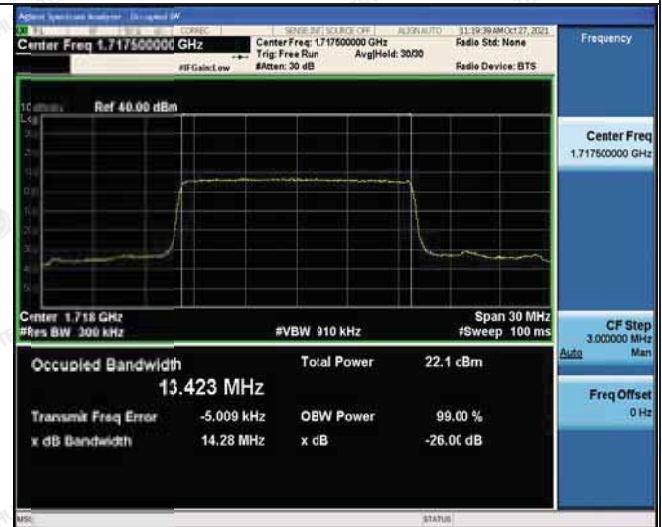
## LTE FDD Band 66-15MHz Channel Bandwidth

### QPSK



75RB#0

### 16QAM



75RB#0

## Low Channel



75RB#0



75RB#0

## Middle Channel



75RB#0



75RB#0

## High Channel

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## 16QAM



100RB#0

Agilent Spectrum Analyzer - Occupied BW

Center Freq 1.745000000 GHz

Trig: Free Run Avg/Hold: 3000

#F Gain/Low #Atten: 30 dB

Radio Std: None

Radio Device: BTS

Frequency

Center Freq 1.745000000 GHz

CF Step 4.000000 MHz

Auto Man

Freq Offset 0 Hz

Center 1.745 GHz

Res BW 300 kHz

#VBW 1.2 MHz

Span 40 MHz

Sweep 100 ms

Occupied Bandwidth	Total Power	22.4 cBm
17.871 MHz		
Transmit Freq Error	-2.394 kHz	OBW Power 99.00 %
x dB Bandwidth	18.93 MHz	x dB -26.00 dB

100RB#0

**Center Freq** 1.77000000 GHz  
**Res BW** 360 kHz  
**Span** 40 MHz  
**Ref** 40.00 dBm  
**Occupied Bandwidth** 17.881 MHz  
**Total Power** 22.0 cBm  
**Transmit Freq Error** -4.207 kHz  
**OBW Power** 99.00 %  
**x dB Bandwidth** 18.94 MHz  
**x cB** -26.00 cB

100RB#0

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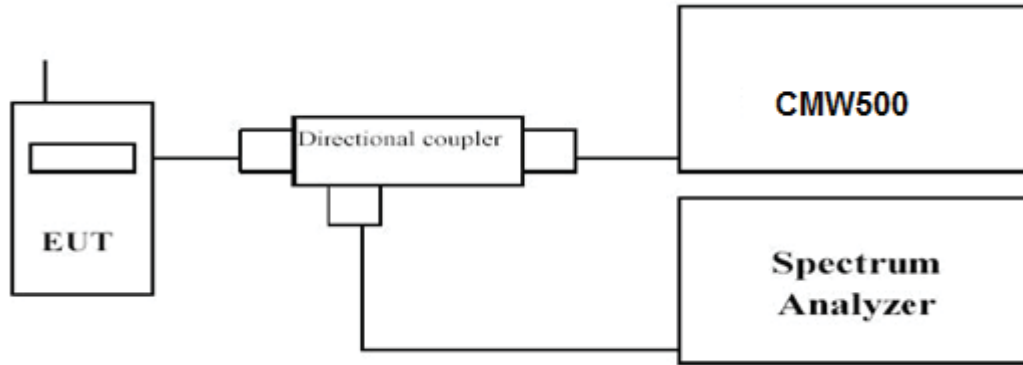


## 3.5 Band Edge compliance

### LIMIT

According to §27.53 (h): For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  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

### TEST RESULTS

#### Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 66; recorded worst case for each Channel Bandwidth of LTE FDD Band 66.



## LTE FDD Band 66-1.4MHz Channel Bandwidth Band Edge Compliance

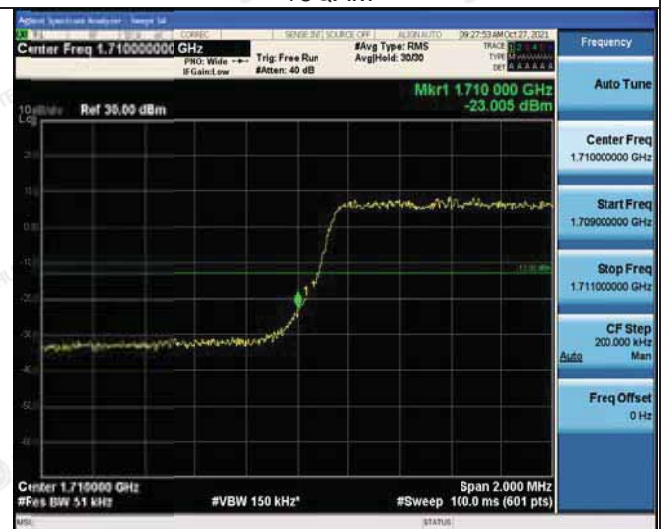
**QPSK****6RB#0****16QAM****6RB#0**

### Low Channel

**6RB#0****6RB#0**

### High Channel

## LTE FDD Band 66-3MHz Channel Bandwidth Band Edge Compliance

**QPSK****15RB#0****16QAM****15RB#0**

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## Low Channel



15RB#0



15RB#0

## High Channel

### LTE FDD Band 66-5MHz Channel Bandwidth Band Edge Compliance

QPSK



25RB#0

16QAM



25RB#0

## Low Channel



25RB#0



25RB#0

## High Channel

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## LTE FDD Band 66-10MHz Channel Bandwidth Band Edge Compliance

**QPSK****50RB#0****50RB#0****Low Channel****50RB#0****50RB#0****High Channel**



## LTE FDD Band 66-15MHz Channel Bandwidth Band Edge Compliance

**QPSK****75RB#0****16QAM****75RB#0**

### Low Channel

**75RB#0****75RB#0**

### High Channel

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## LTE FDD Band 66-20MHz Channel Bandwidth Band Edge Compliance

**QPSK****16QAM**

100RB#0

100RB#0

**Low Channel**

100RB#0

100RB#0

**High Channel**





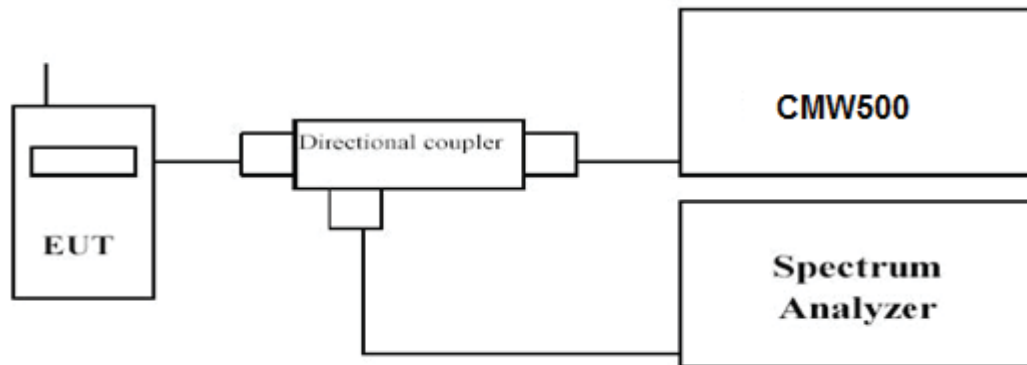
### 3.6 Spurious Emission

#### LIMIT

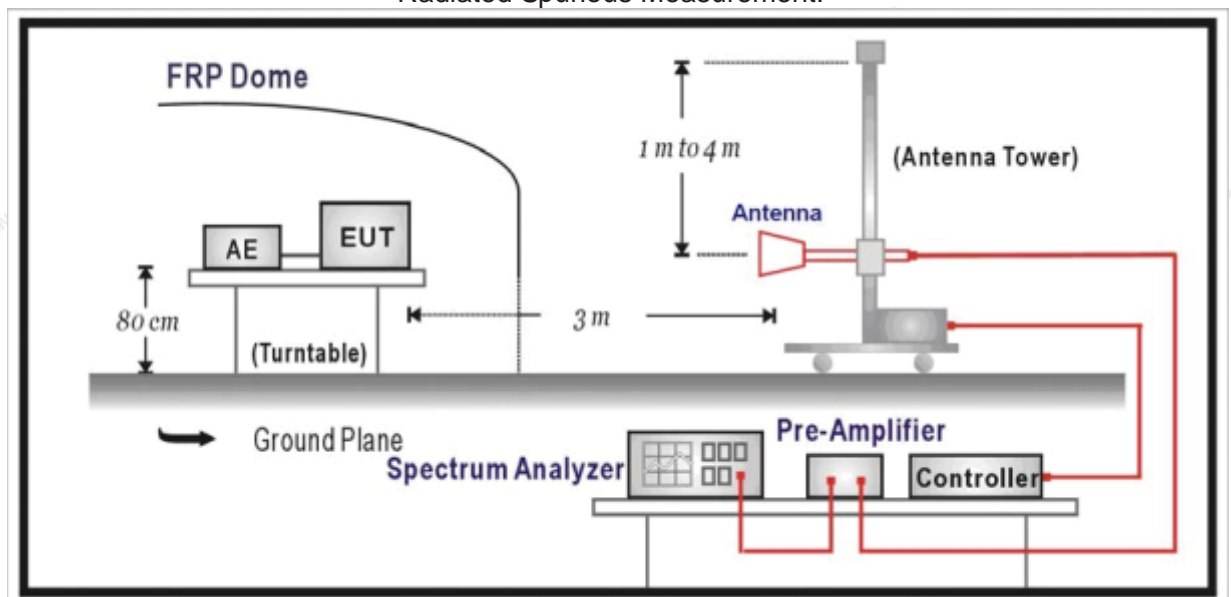
According to §27.53 (h): For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB.

#### TEST CONFIGURATION

Conducted Spurious Measurement:



Radiated Spurious Measurement:



#### TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

##### **Conducted Spurious 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 spectrum analyzer and CMW500 by a Directional Couple.
- EUT Communicate with CMW500, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.
- The resolution bandwidth of the spectrum analyzer was set sufficient scans were taken to show the out of band Emission if any up to  $10^{\text{th}}$  harmonic.



f. Please refer to following tables for test antenna conducted emissions.

Working Frequency	Sub range (GHz)	RBW	VBW	Sweep time (s)
LTE FDD Band 66	0.000009~0.000015	1KHz	3KHz	Auto
	0.000015~0.03	10KHz	30KHz	Auto
	0.03~26.5	1 MHz	3 MHz	Auto

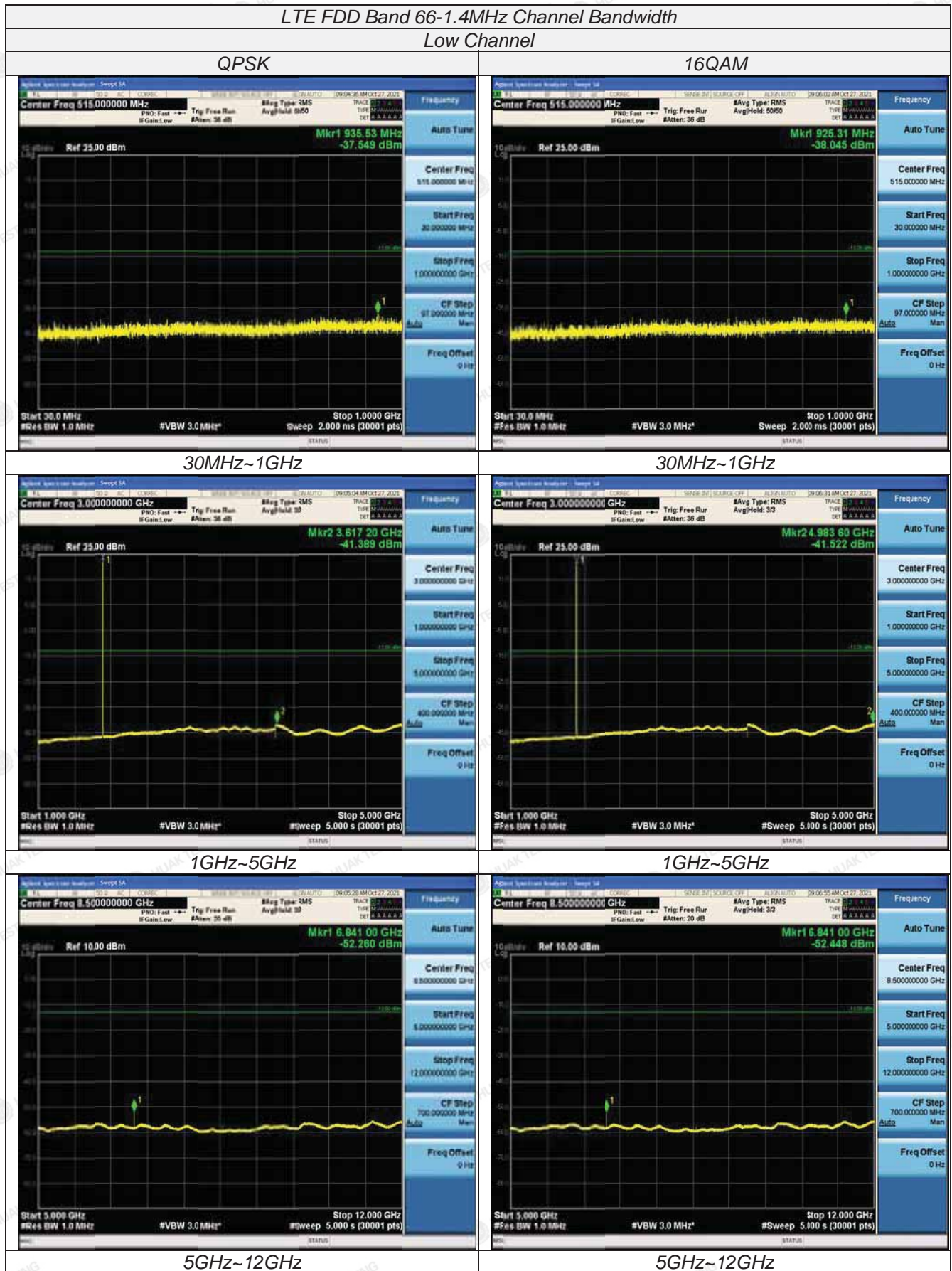
**Radiated Spurious Measurement:**

- 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.
- The resolution bandwidth of the spectrum analyzer was set at 100 kHz for Part 22 and 1MHz for Part 24. The frequency range was checked up to 10th harmonic.
- Test site anechoic chamber refer to ANSI C63.

**TEST RESULTS****Remark:**

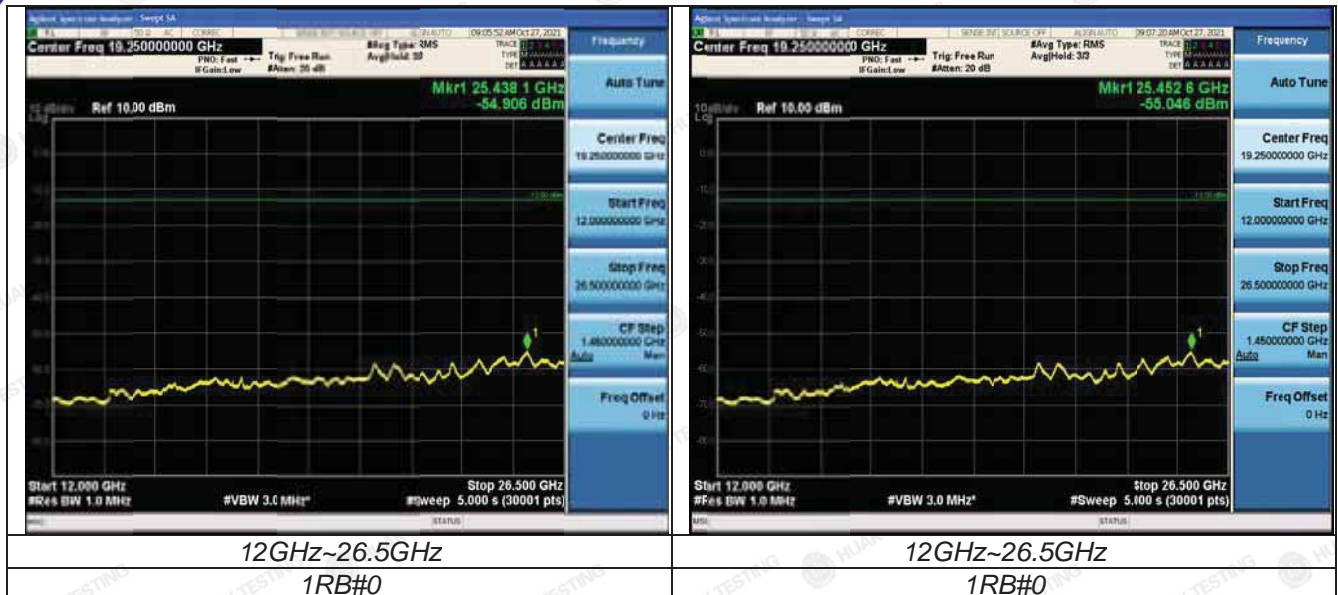
- We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 66; recorded worst case for each Channel Bandwidth of LTE FDD Band 66.

**Conducted Measurement:**

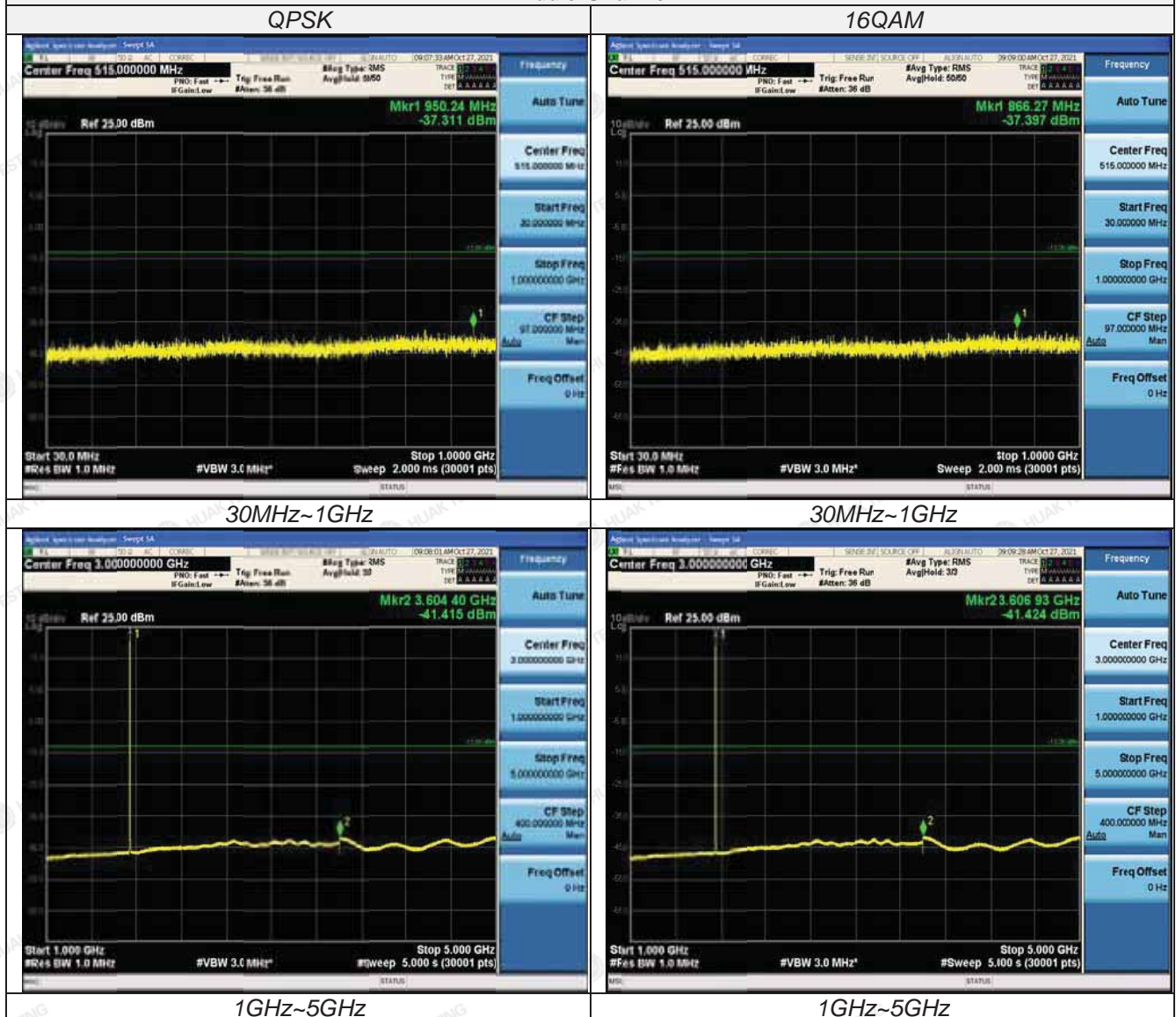


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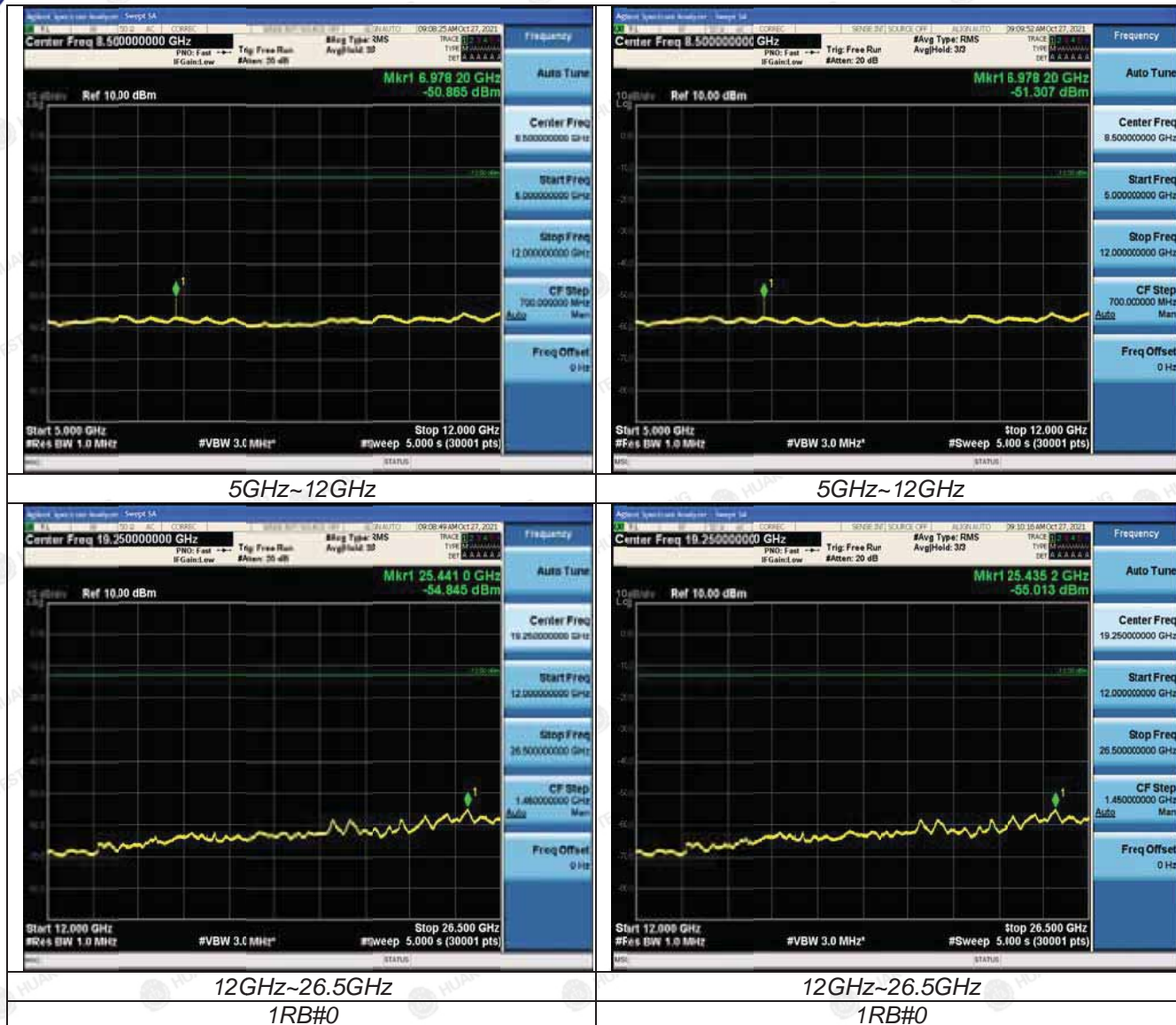




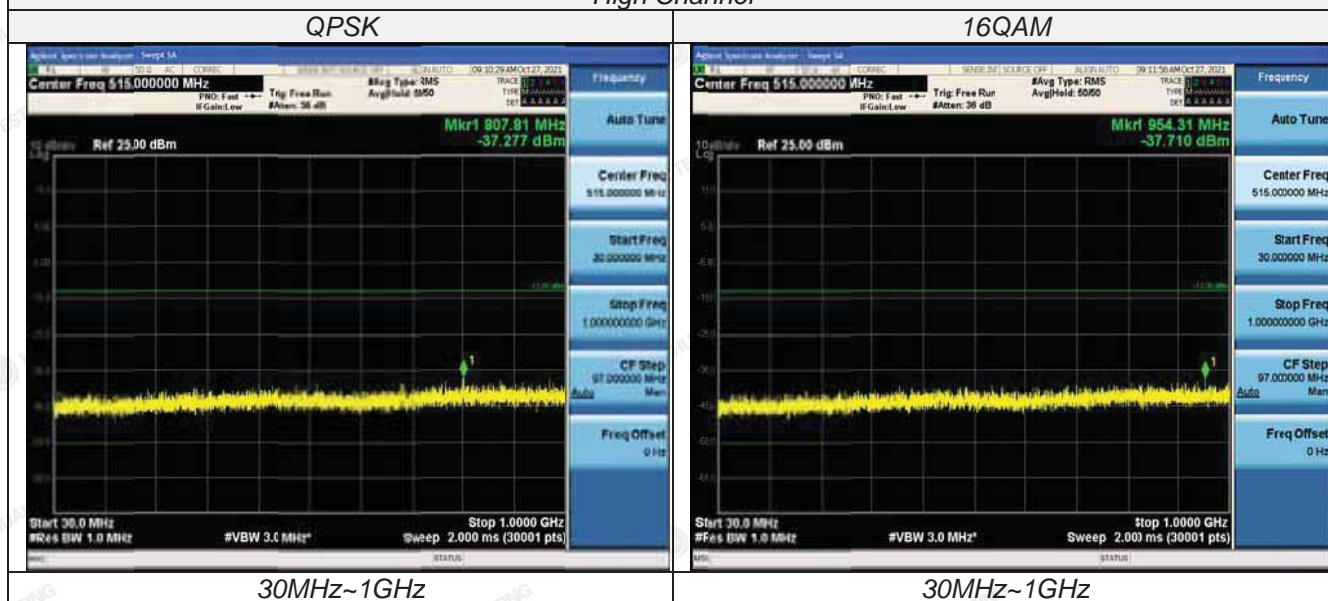
## LTE FDD Band 66-1.4MHz Channel Bandwidth Middle Channel



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## LTE FDD Band 66-1.4MHz Channel Bandwidth High Channel



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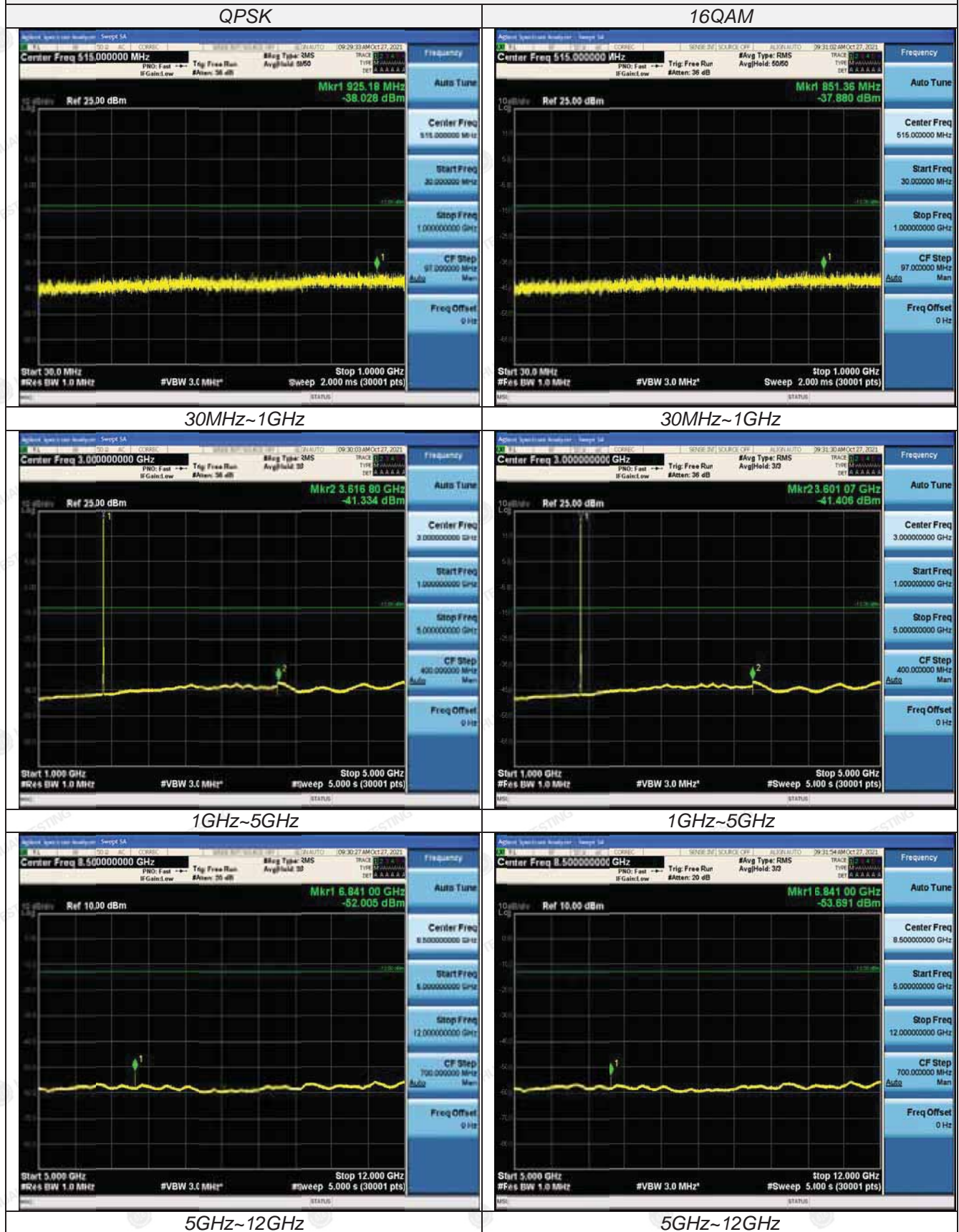


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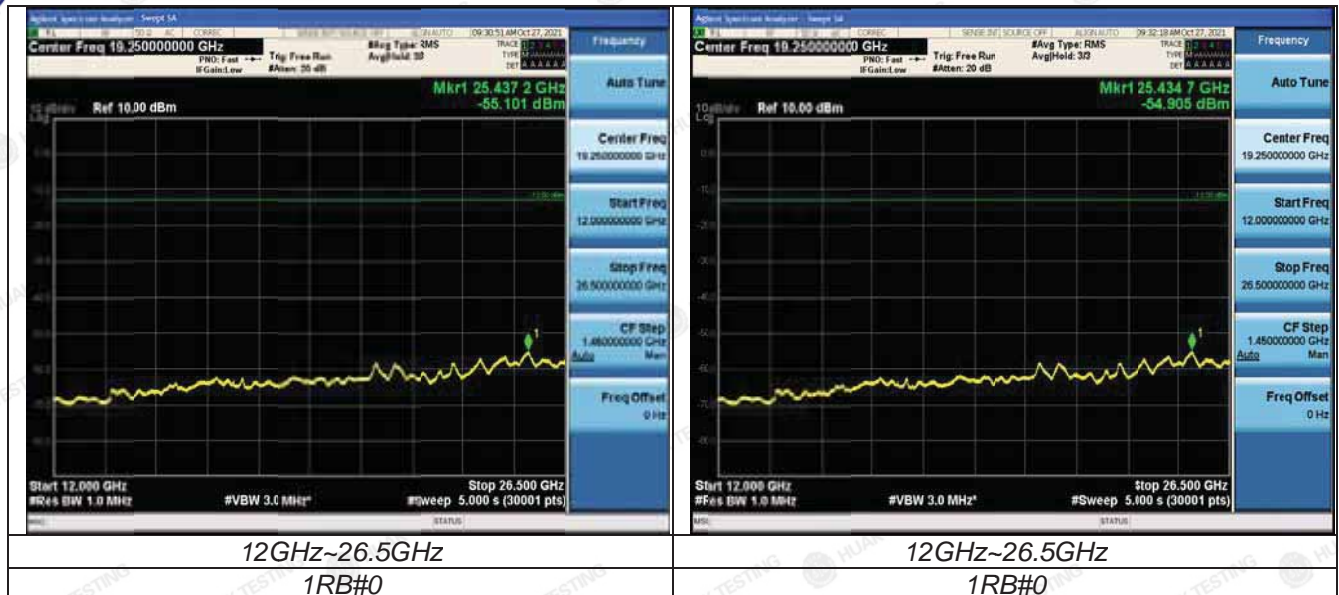




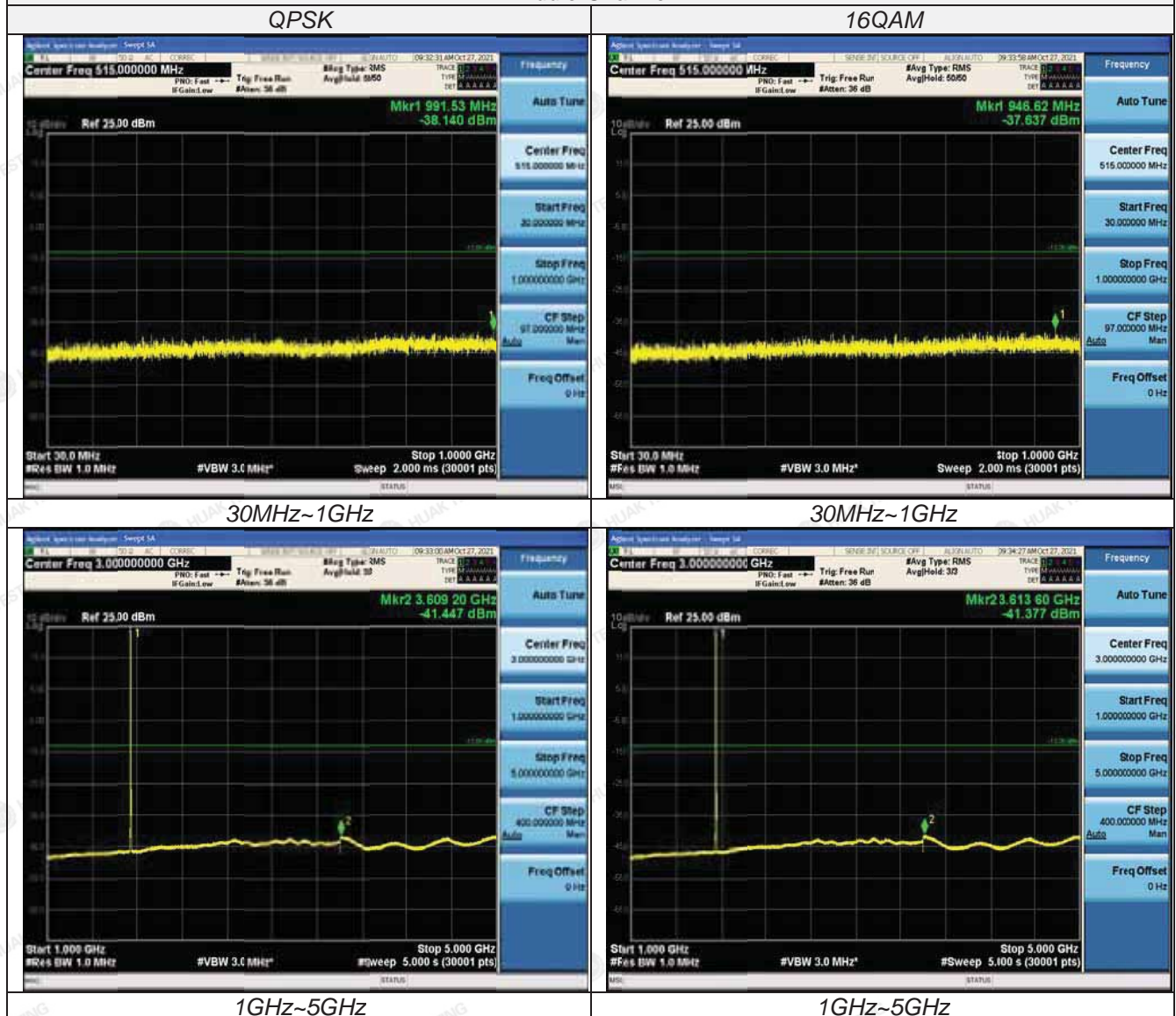
## LTE FDD Band 66-3MHz Channel Bandwidth Low Channel



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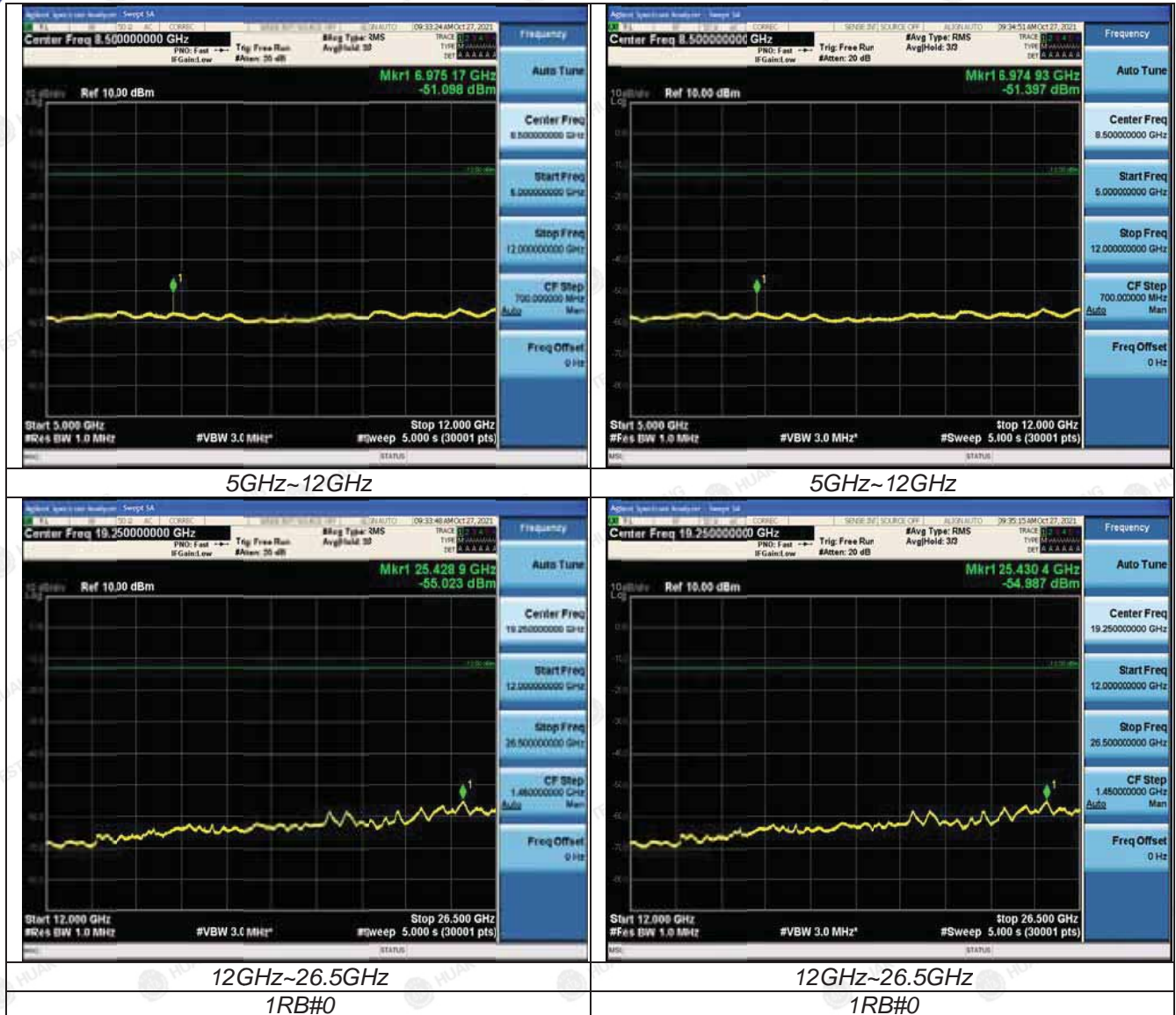


## LTE FDD Band 66-3MHz Channel Bandwidth Middle Channel

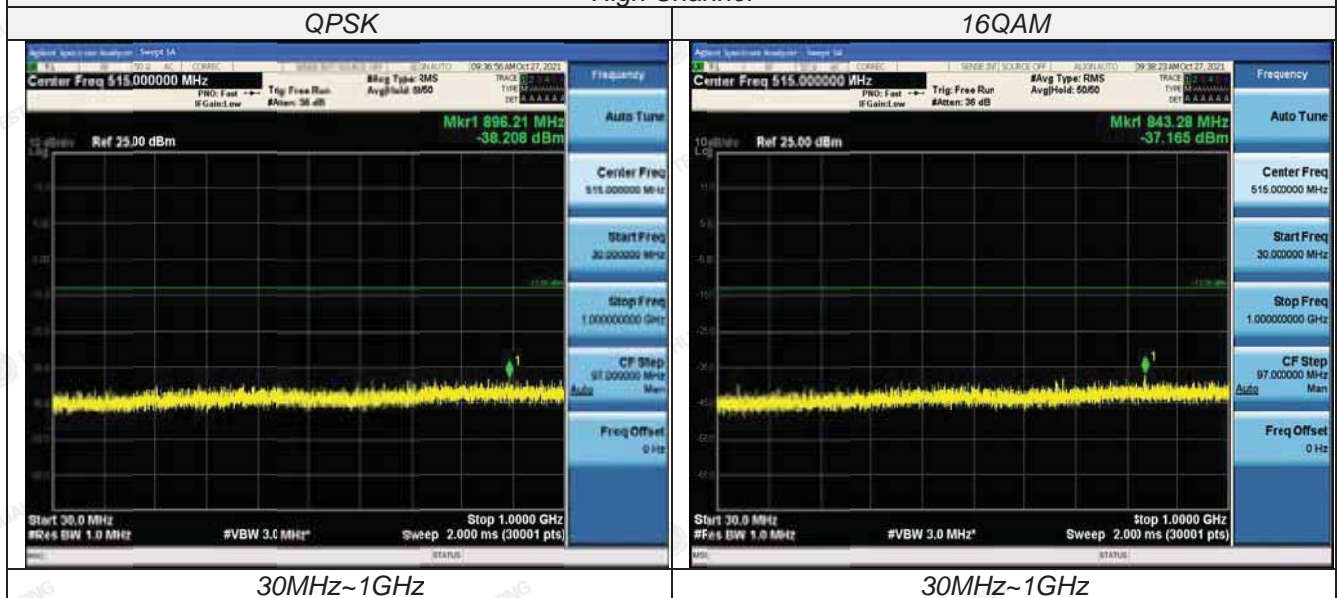


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## LTE FDD Band 66-3MHz Channel Bandwidth High Channel



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