

FCC Test Report

Report Reference No.: **HK2502080444-14E**
FCC ID : **2BDI3-V**
Compiled by
(position+printed name+signature) .: RF Department Manager Len Liao
Supervised by
(position+printed name+signature) .: Technical Manager Sliver Wan
Approved by
(position+printed name+signature) .: General Manager Jason Zhou

Len Liao
Sliver Wan
Jason Zhou



Date of issue: Apr. 18, 2025
Testing Laboratory Name.....: **Shenzhen HUAKE Testing Technology Co., Ltd.**
Address: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park,
Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Applicant's name: **Shenzhen Haimeilan Technology Co., LTD.**
Address: 9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang North
Street, Futian District, Shenzhen, 518000 China
Test specification:
Standard.....: **FCC CFR Title 47 Part 2, Part 22H**
Shenzhen HUAKE Testing Technology Co., Ltd. All rights reserved.
This publication may be reproduced in whole or in part for non-commercial purposes as long as the
Shenzhen HUAKE Testing Technology Co., Ltd. as copyright owner and source of the material. Shenzhen
HUAKE Testing Technology Co., Ltd. takes no responsibility for and will not assume liability for damages
resulting from the reader's interpretation of the reproduced material due to its placement and context.
Test item description: Smart Phone
Trade Mark: N/A
Manufacturer: **Shenzhen Haimeilan Technology Co., LTD.**
Model/Type reference: I16 Pro max
Series Models: AE01, AE02, AE03, AE04, AE05, AE06, AE07, AE08, AE09, AE10,
AE11, AE12, AE13, AE14, AE15, AE16, AE17, AE18, AE19, AE20,
FA01, FA02, FA03, FA04, FA05, FA06, FA07, FA08, FA09, FA10,
FA11, FA12, FA13, FA14, FA15, FA16, FA17, FA18, FA19, FA20,
Viral11, Alpha10 Pro, Zero 5 neo, Echo8 Se, S26 Ultra, Pixel 9, SP30
Pro, MT Ultimate, M15 pro
Ratings: DC 5V From Type-C or DC 3.85V From Battery
Modulation: QPSK, 16QAM
Hardware version: V1.0
Software version: V1.0
Frequency: LTE Band 26
Result: **PASS**

TEST REPORT

Test Report No. : HK2502080444-14E	Apr. 18, 2025 Date of issue
---	--------------------------------

Equipment under Test : Smart Phone

Model /Type : I16 Pro max

Series Models : AE01, AE02, AE03, AE04, AE05, AE06, AE07, AE08, AE09, AE10, AE11, AE12, AE13, AE14, AE15, AE16, AE17, AE18, AE19, AE20, FA01, FA02, FA03, FA04, FA05, FA06, FA07, FA08, FA09, FA10, FA11, FA12, FA13, FA14, FA15, FA16, FA17, FA18, FA19, FA20, Viral11, Alpha10 Pro, Zero 5 neo, Echo8 Se, S26 Ultra, Pixel 9, SP30 Pro, MT Ultimate, M15 pro

Applicant : Shenzhen Haimeilan Technology Co., LTD.

Address : 9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang North Street, Futian District, Shenzhen, 518000 China

Manufacturer : Shenzhen Haimeilan Technology Co., LTD.

Address : 9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang North Street, Futian District, Shenzhen, 518000 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.

TABLE OF CONTENTS

1. Summary	5
1.1 Test Standards.....	5
1.2 Test Description.....	6
2. EUT Description	7
3. General Information.....	8
3.1. Test environment and mode.....	8
3.2. Test Mode.....	9
3.3. Description of Support Units.....	9
3.4. Configuration of Tested System	10
3.5. Measurement Results Explanation Example.....	10
3.6. Equipments Used during the Test	11
4. Facilities and Accreditations	12
4.1. Information of the Test Laboratory	12
4.2. Measurement Uncertainty.....	12
5. Test Results and Measurement Data	13
5.1. Conducted Output Power Measurement	13
5.2. Radiated Output Power	16
5.3. Peak to Average Ratio.....	19
5.4. 99% Occupied Bandwidth and 26dB Bandwidth Measurement	25
5.5. Band Edge and Conducted Spurious Emission Measurement	32
5.6. Field Strength of Spurious Radiation Measurement	53
5.7. Frequency Stability Measurement	72
6. Test Setup Photos of the EUT	74
7. Photographs of EUT	81

**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Apr. 18, 2025	Jason Zhou

1. Summary

1.1 Test Standards

The tests were performed according to following standards:

[FCC Part 2:](#) Frequency Allocation And Radio Treaty Matters; General Rules And Regulations.

[FCC Part 22 Subpart H:](#) Private Land Mobile Radio 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.

[FCC KDB 971168D01 v03r01](#) Power Measurement License Digital Systems.

1.2 Test Description

Test Item	FCC Rule No.	Requirements	Verdict
Effective(Isotropic) Radiated Output Power	§2.1046, §22.913	$EIRP \leq 7W$	Pass
Peak-Average Ratio	§22.917	FCC:Limit $\leq 13dB$	Pass
Modulation Characteristics	§2.1047	Digital modulation	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	§2.1051, §22.917	$\leq -13dBm/1\%*EBW$, In 1MHz bands immediately outside and adjacent to The frequency block.	Pass
Spurious Emission at Antenna Terminals	§2.1051, §22.917	$\leq -13dBm/1MHz$, from 9kHz to 10th harmonics but outside authorized Operating frequency ranges.	Pass
Field Strength of Spurious Radiation	§2.1051, §22.917	$\leq -13dBm/1MHz$.	Pass
Frequency Stability	§2.1055, §22.355,	FCC: within authorized frequency block.	Pass

NOTE 1: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

2. EUT Description

Product Name:	Smart Phone
Model:	I16 Pro max
Series Models:	AE01, AE02, AE03, AE04, AE05, AE06, AE07, AE08, AE09, AE10, AE11, AE12, AE13, AE14, AE15, AE16, AE17, AE18, AE19, AE20, FA01, FA02, FA03, FA04, FA05, FA06, FA07, FA08, FA09, FA10, FA11, FA12, FA13, FA14, FA15, FA16, FA17, FA18, FA19, FA20, Viral11, Alpha10 Pro, Zero 5 neo, Echo8 Se, S26 Ultra, Pixel 9, SP30 Pro, MT Ultimate, M15 pro
Model Difference:	All model's the function, software and electric circuit are the same, only with a product appearance, color and model named different. Test sample mode: I16 Pro max.
Trade Mark:	N/A
Tx Frequency:	LTE Band 26: 824 MHz ~ 849 MHz
Rx Frequency:	LTE Band 26: 869MHz ~ 894 MHz
Bandwidth:	LTE Band 26: 1.4MHz /3MHz /5MHz /10MHz /15MHz
Type of Modulation:	QPSK/16QAM
Antenna Type:	FPC Antenna
Antenna Gain:	LTE Band 26: -1.42dBi
Power Supply:	DC 5V From Type-C or DC 3.85V From Battery
Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. Antenna gain Refer to the antenna specifications. 3. The cable loss data is obtained from the supplier. 4. The test results in the report only apply to the tested sample.	

3. General Information

3.1. Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

Description Operation Frequency

LTE Band 26(1.4MHz)		LTE Band 26(3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
26797	824.7	26805	825.5
26915	836.5	26915	836.5
27033	848.3	27025	847.5
LTE Band 26(5MHz)		LTE Band 26(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
26815	826.5	26840	829.0
26915	836.5	26915	836.5
27015	846.5	26990	844.0
LTE Band 26(15MHz)			
Channel	Frequency (MHz)		
26865	831.5		
26915	836.5		
26965	841.5		

3.2. Test Mode

All modes and data rates and positions were investigated.

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

Test Mode		
Band	Radiated TCs	Conducted TCs
LTE Band 26	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz/ 15MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz/ 15MHz)

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas License Digital Systems v03 with maximum output power. Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

3.3. Description of Support Units

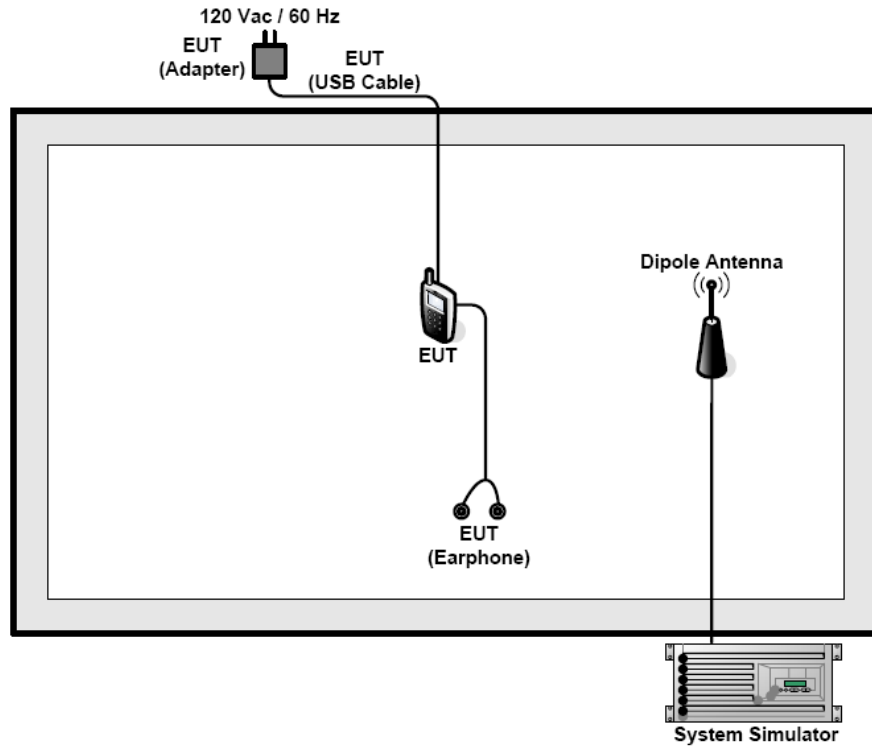
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3.4. Configuration of Tested System



3.5. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level. The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Offset = RF cable loss + attenuator factor.

3.6. Equipments Used during the Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	L.I.S.N.	R&S	ENV216	HKE-002	2025/02/19	2026/02/18
2	L.I.S.N.	R&S	ENV216	HKE-059	2025/02/19	2026/02/18
3	EMI Test Receiver	R&S	ESR	HKE-005	2025/02/19	2026/02/18
4	Spectrum analyzer	Agilent	N9020A	HKE-117	2025/02/19	2026/02/18
5	Spectrum analyzer	R&S	FSV3044	HKE-126	2025/02/19	2026/02/18
6	Preamplifier	EMCI	EMC051845S	HKE-006	2025/02/19	2026/02/18
7	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	2025/02/19	2026/02/18
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	2025/02/19	2026/02/18
9	6dB Attenuator	Pasternack	6db	HKE-184	2025/02/19	2026/02/18
10	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2025/02/19	2026/02/18
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2024/02/21	2026/02/20
12	Loop Antenna	COM-POWER	AL-130R	HKE-014	2024/02/21	2026/02/20
13	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2026/02/20
14	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
15	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
16	RF Automatic control unit	Tonscend	JS0806-1	HKE-096	2025/02/19	2026/02/18
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	2025/02/19	2026/02/18
18	Wireless Communication Test Set	R&S	CMU200	HKE-026	2025/02/19	2026/02/18
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	2025/02/19	2026/02/18
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	2025/02/19	2026/02/18
21	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2025/02/19	2026/02/18
22	RF Test Software	Tonscend	JS1120 Version 3.1.46	HKE-183	/	/
23	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/	/

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

4. Facilities and Accreditations

4.1. 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.

4.2. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

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 $k=2$.

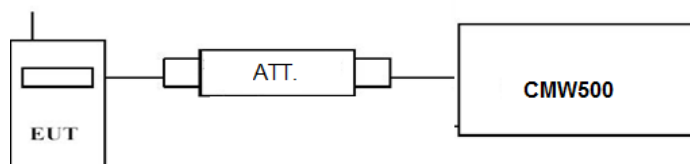
5. Test Results and Measurement Data

5.1. Conducted Output Power Measurement

Test Applicable

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 and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

Test Configuration



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

Conducted Measurement:

LTE FDD Band 26				
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	1 RB low	824.7	23.35	22.30
		836.5	23.49	22.39
		848.3	23.37	22.27
	1 RB high	824.7	23.50	22.19
		836.5	23.49	22.27
		848.3	23.44	22.22
	50% RB mid	824.7	22.43	21.47
		836.5	23.17	22.01
		848.3	23.17	22.15
	100% RB	824.7	23.17	21.94
		836.5	23.24	22.09
		848.3	23.24	22.08
3 MHz	1 RB low	825.5	23.41	22.44
		836.5	23.46	22.42
		847.5	23.39	22.42
	1 RB high	825.5	22.48	21.52
		836.5	22.41	21.49
		847.5	22.48	21.51
	50% RB mid	825.5	22.42	21.48
		836.5	23.21	22.11
		847.5	23.23	22.03
	100% RB	825.5	23.15	22.04
		836.5	22.18	21.20
		847.5	22.14	21.22
5 MHz	1 RB low	826.5	23.40	22.32
		836.5	23.57	22.47
		846.5	23.42	22.30
	1 RB high	826.5	22.49	21.43
		836.5	22.44	21.42
		846.5	22.47	21.50
	50% RB mid	826.5	23.13	22.20
		836.5	23.27	22.28
		846.5	22.99	22.08
	100% RB	826.5	22.20	21.27
		836.5	22.24	21.26
		846.5	22.15	21.19

10 MHz	1 RB low	829.0	23.50	22.45
		836.5	23.52	22.51
		844.0	23.25	22.27
	1 RB high	829.0	22.53	21.52
		836.5	22.51	21.54
		844.0	22.48	21.46
	50% RB mid	829.0	22.49	21.52
		836.5	23.37	22.22
		844.0	23.33	22.18
15 MHz	100% RB	829.0	23.06	21.90
		836.5	22.34	21.39
		844.0	22.35	21.42
	1 RB low	831.5	23.41	22.45
		836.5	23.42	22.40
		841.5	23.12	22.11
	1 RB high	831.5	22.41	21.42
		836.5	22.40	21.39
		841.5	22.40	21.38
	50% RB mid	831.5	22.38	21.36
		836.5	23.32	22.45
		841.5	23.17	22.34
	100% RB	831.5	22.88	21.07
		836.5	22.26	21.25
		841.5	22.26	21.27

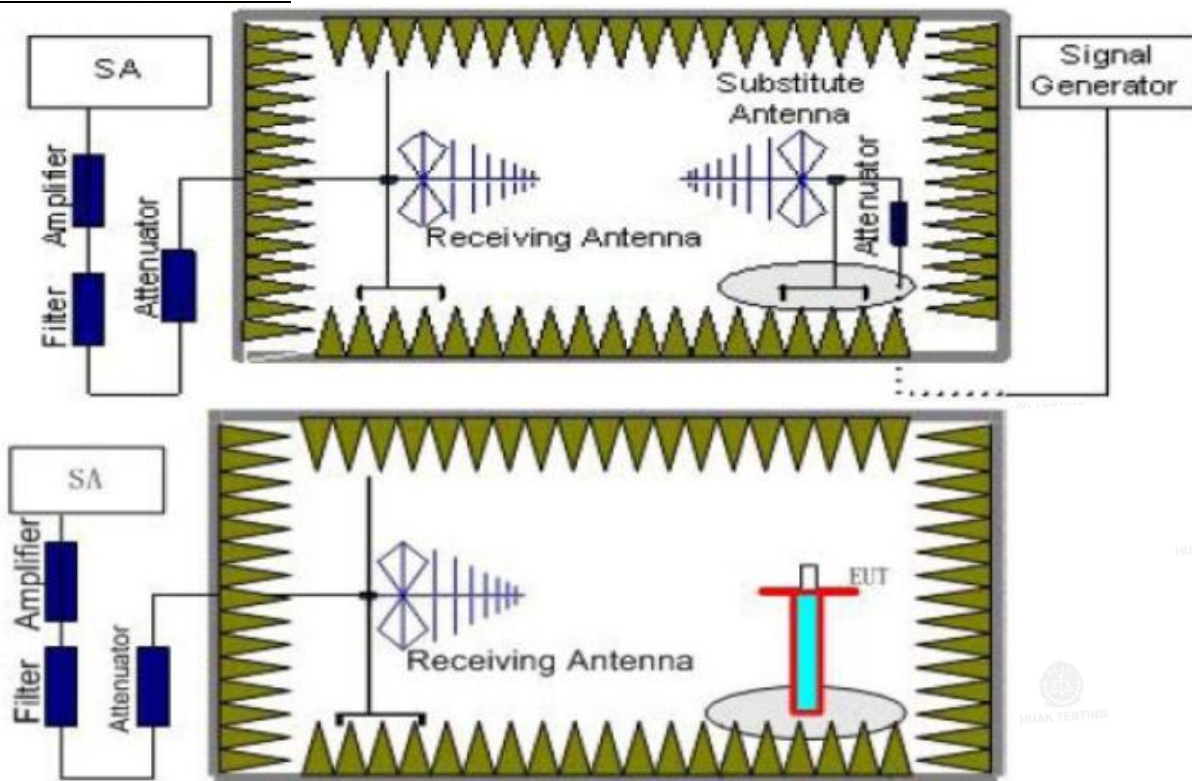
5.2. Radiated Output Power

LIMIT

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

Rule Part 22H.232(b) specifies, "Mobile/portable stations are limited to 7 watts e.i.r.p.

TEST CONFIGURATION



TEST PROCEDURE

1. EUT was placed on a 0.1 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 0.1m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver.

5. reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (P_{cl}), the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.

The measurement results are obtained as described below: $\text{Power(EIRP)} = P_{Mea} - P_{Ag} - P_{cl} + G_a$

We used SMF100A microwave signal generator which signal level can up to 33dBm,so we not used power

Amplifier for substitution test; The measurement results are amend as described below:

$$\text{Power(EIRP)} = P_{Mea} - P_{cl} + G_a$$

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

TEST RESULTS

Radiated Measurement:

Remark:

1. We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 26.
2. $\text{EIRP} = P_{Mea}(\text{dBm}) - P_{cl}(\text{dB}) + P_{Ag}(\text{dB}) + G_a(\text{dBi})$
3. We measured both Horizontal and Vertical direction, recorded worst case direction.

LTE FDDBand 26_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	P_{Ag} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.7	-18.81	2.42	8.45	36.82	24.04	21.89	38.45	16.56	V
836.5	-17.06	2.46	8.45	36.82	25.75	23.6	38.45	14.85	V
848.3	-19.08	2.53	8.36	36.82	23.57	21.42	38.45	17.03	V

LTE FDDBand 26_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	P_{Ag} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.5	-19.3	2.42	8.45	36.82	23.55	21.4	38.45	17.05	V
836.5	-16.58	2.46	8.45	36.82	26.23	24.08	38.45	14.37	V
847.5	-17.32	2.53	8.36	36.82	25.33	23.18	38.45	15.27	V

LTE FDD Band 26_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	P_{Ag} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.5	-18.71	2.42	8.45	36.82	24.14	21.99	38.45	16.46	V
836.5	-17.6	2.46	8.45	36.82	25.21	23.06	38.45	15.39	V
846.5	-18.82	2.53	8.36	36.82	23.83	21.68	38.45	16.77	V

LTE FDD Band 26_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	P_{Ag} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.0	-18.05	2.42	8.45	36.82	24.8	22.65	38.45	15.8	V
836.5	-17.18	2.46	8.45	36.82	25.63	23.48	38.45	14.97	V
844.0	-17.89	2.53	8.36	36.82	24.76	22.61	38.45	15.84	V

LTE FDD Band 26_Channel Bandwidth 15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
831.5	-16.95	2.42	8.45	36.82	25.9	23.75	38.45	14.7	V
836.5	-15.46	2.46	8.45	36.82	27.35	25.2	38.45	13.25	V
841.5	-17.96	2.53	8.36	36.82	24.69	22.54	38.45	15.91	V

LTE FDD Band 26_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.7	-18.89	2.42	8.45	36.82	23.96	21.81	38.45	16.64	V
836.5	-16.74	2.46	8.45	36.82	26.07	23.92	38.45	14.53	V
848.3	-18.76	2.53	8.36	36.82	23.89	21.74	38.45	16.71	V

LTE FDD Band 26_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.5	-18.55	2.42	8.45	36.82	24.3	22.15	38.45	16.3	V
836.5	-17.89	2.46	8.45	36.82	24.92	22.77	38.45	15.68	V
847.5	-18.49	2.53	8.36	36.82	24.16	22.01	38.45	16.44	V

LTE FDD Band 26_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.5	-18.71	2.42	8.45	36.82	24.14	21.99	38.45	16.46	V
836.5	-17.49	2.46	8.45	36.82	25.32	23.17	38.45	15.28	V
846.5	-18.57	2.53	8.36	36.82	24.08	21.93	38.45	16.52	V

LTE FDD Band 26_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.0	-18.15	2.42	8.45	36.82	24.7	22.55	38.45	15.9	V
836.5	-17.02	2.46	8.45	36.82	25.79	23.64	38.45	14.81	V
844.0	-18.87	2.53	8.36	36.82	23.78	21.63	38.45	16.82	V

LTE FDD Band 26_Channel Bandwidth 15MHz_16QAM

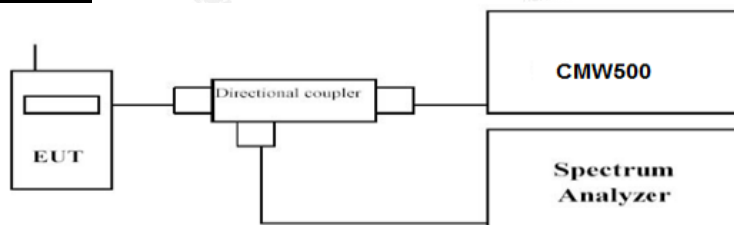
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Aq} (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
831.5	-18.93	2.42	8.45	36.82	23.92	21.77	38.45	16.68	V
836.5	-16.13	2.46	8.45	36.82	26.68	24.53	38.45	13.92	V
841.5	-18.11	2.53	8.36	36.82	24.54	22.39	38.45	16.06	V

5.3. Peak to Average Ratio

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:

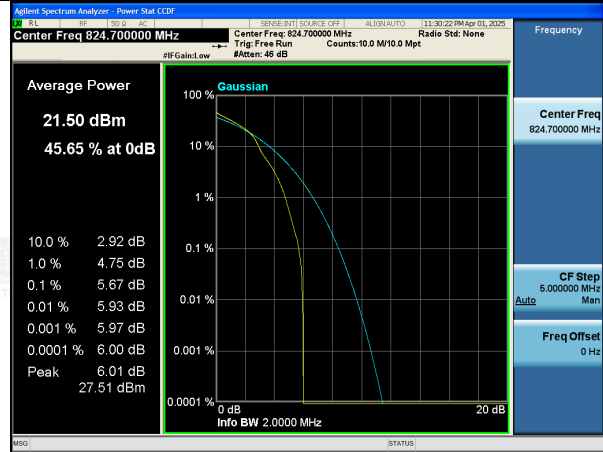
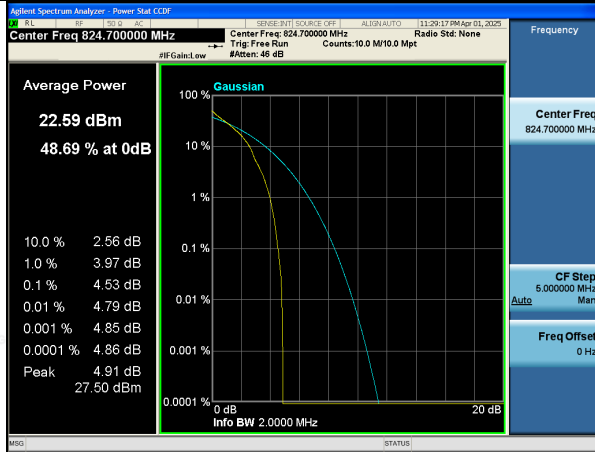
1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 26.

LTE FDD Band 26				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	PAPR (dB)	
			QPSK	16QAM
1.4 MHz	824.7	1RB#0	4.53	5.67
	836.5		4.94	5.96
	848.3		4.72	5.61
3 MHz	825.5	1RB#0	4.50	5.67
	836.5		4.81	5.67
	847.5		5.05	5.83
5 MHz	826.5	1RB#0	4.49	5.24
	836.5		4.92	5.53
	846.5		5.04	5.75
10 MHz	829.0	1RB#0	4.43	5.60
	836.5		4.42	5.30
	844.0		4.96	6.11
15 MHz	831.5	1RB#0	4.42	5.54
	836.5		4.26	5.19
	841.5		4.84	5.74

LTE FDD Band 26-1.4MHz Channel Bandwidth PAPR

QPSK

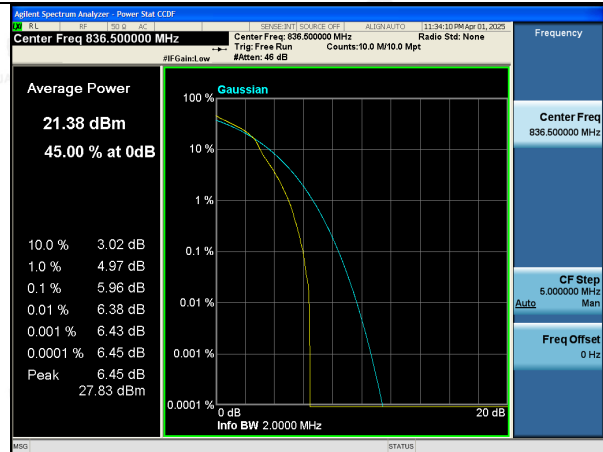
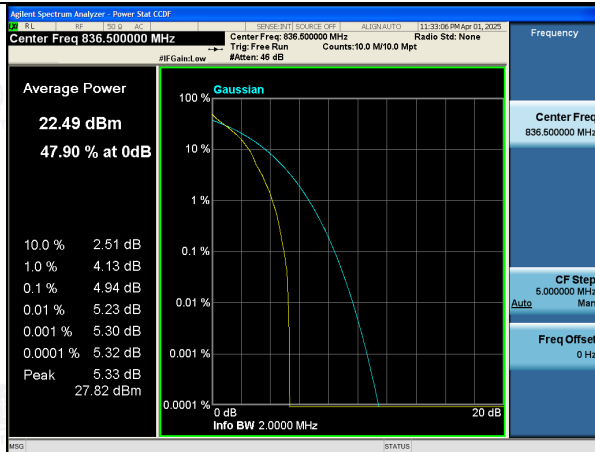
16QAM



1RB#0

1RB#0

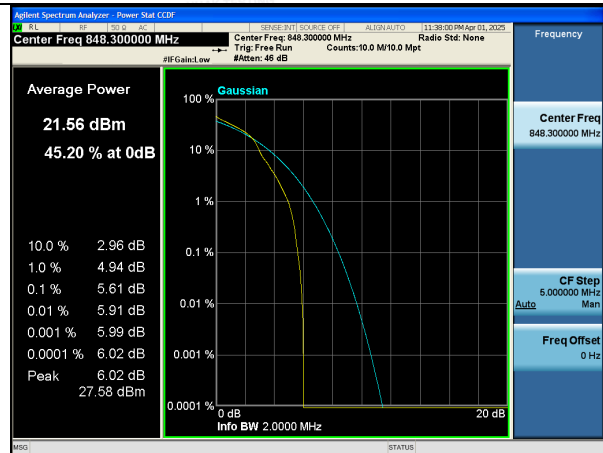
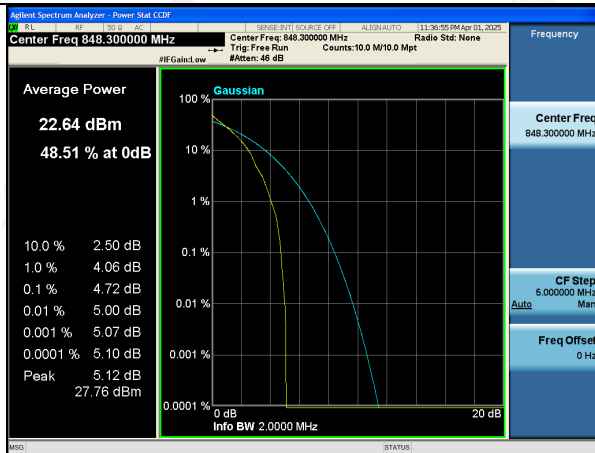
Low Channel



1RB#0

1RB#0

Middle Channel



1RB#0

1RB#0

High Channel

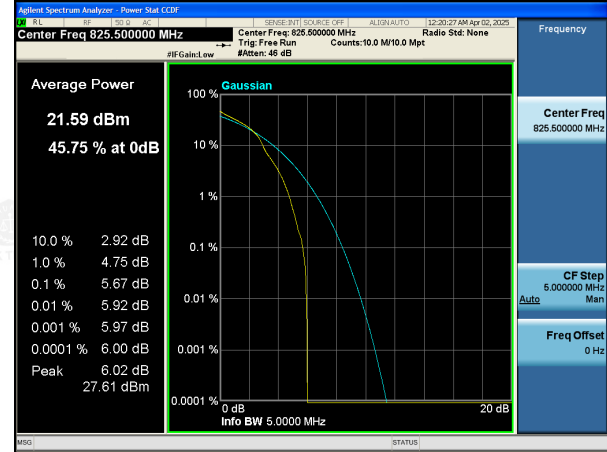
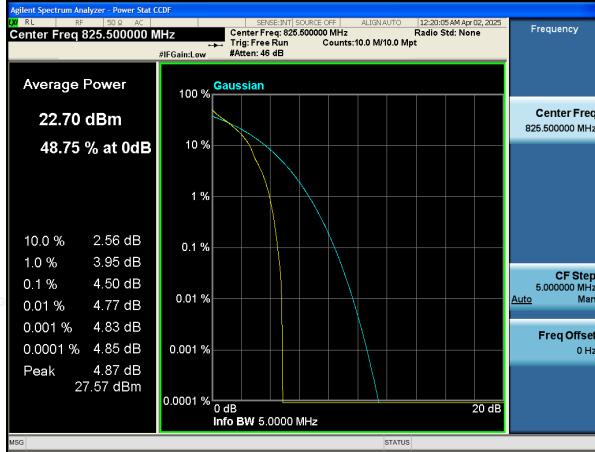
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

LTE FDD Band 26-3MHz Channel Bandwidth PAPR

QPSK

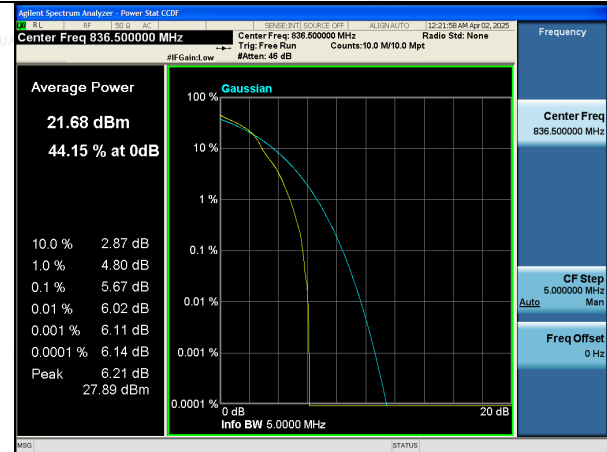
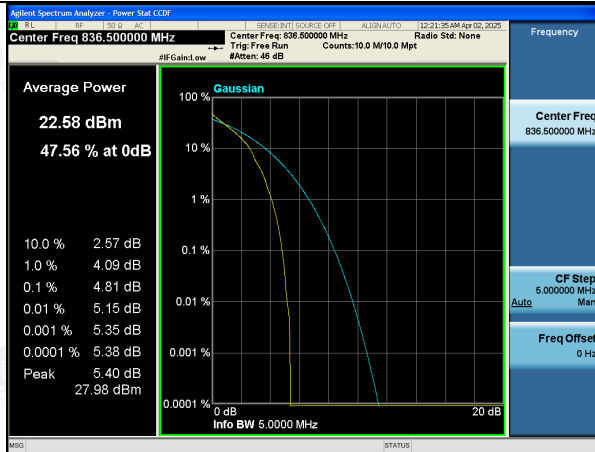
16QAM



1RB#0

1RB#0

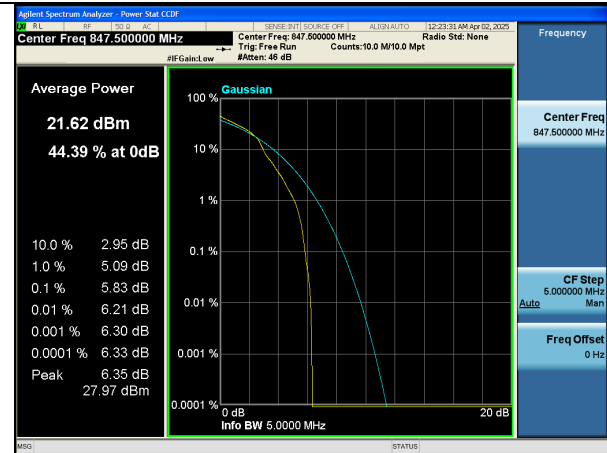
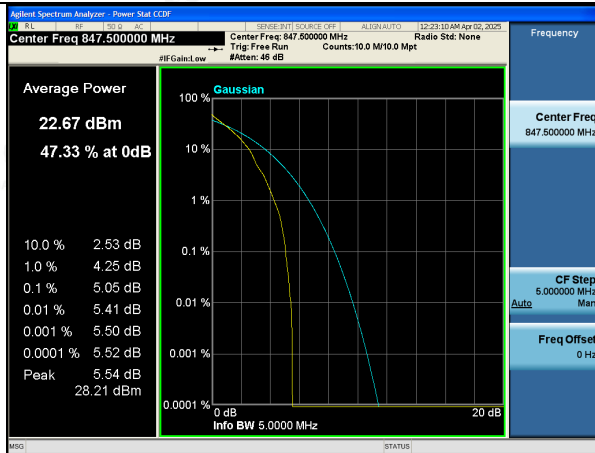
Low Channel



1RB#0

1RB#0

Middle Channel



1RB#0

1RB#0

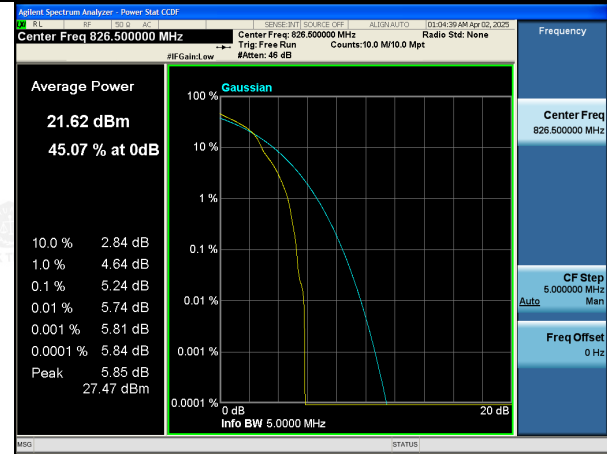
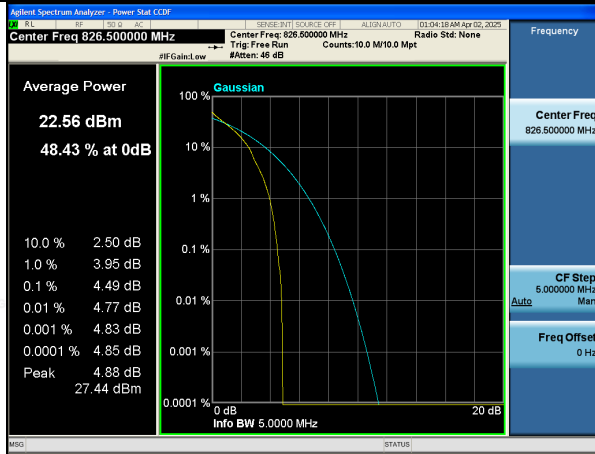
High Channel

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

LTE FDD Band 26-5MHz Channel Bandwidth PAPR

QPSK

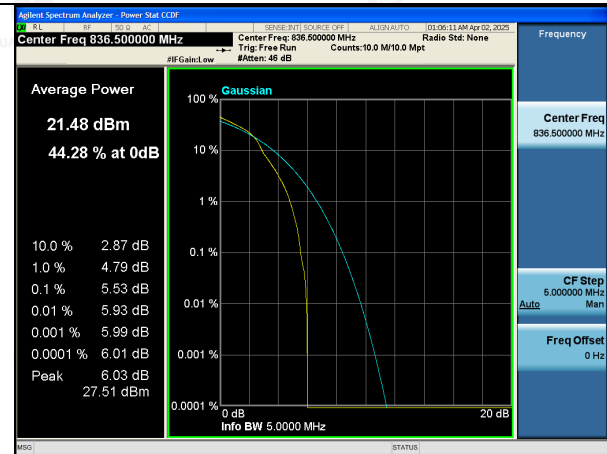
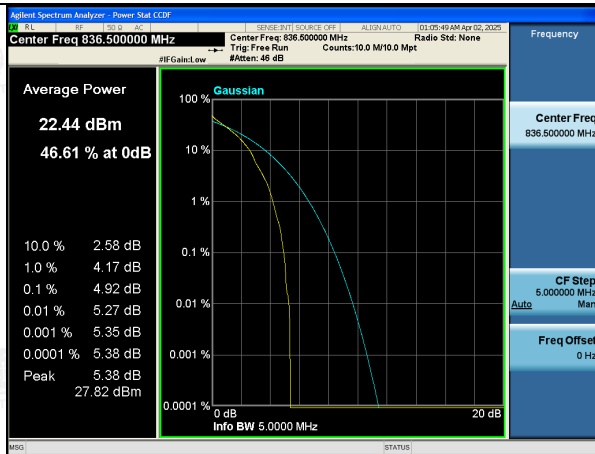
16QAM



1RB#0

1RB#0

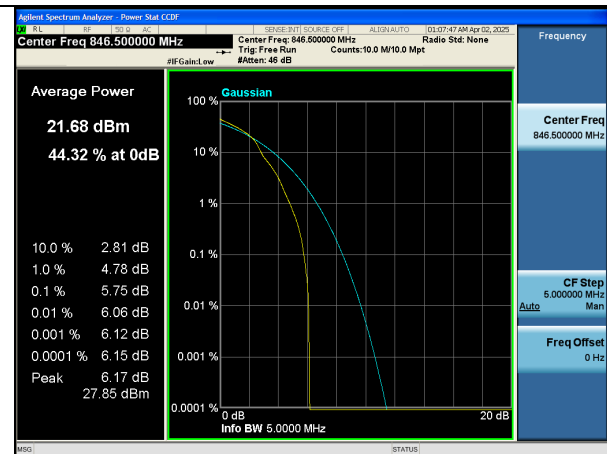
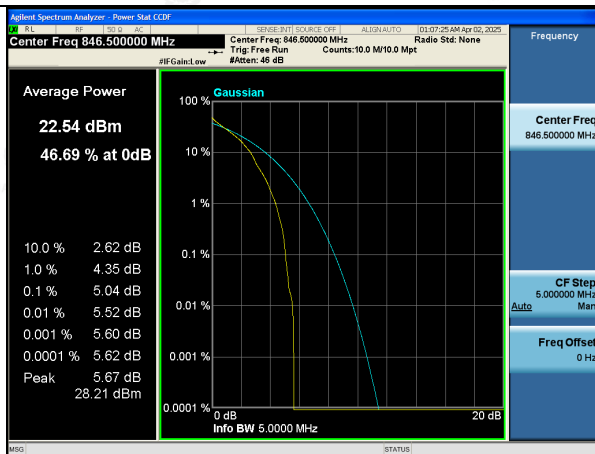
Low Channel



1RB#0

1RB#0

Middle Channel



1RB#0

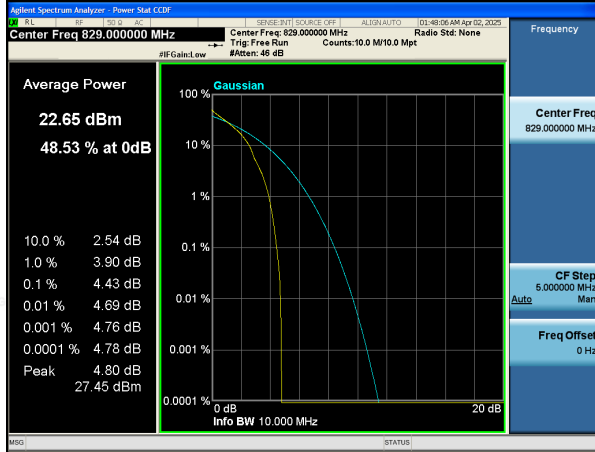
1RB#0

High Channel

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

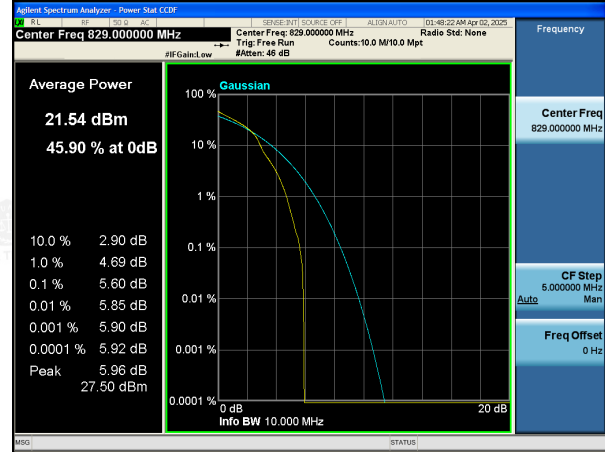
LTE FDD Band 26-10MHz Channel Bandwidth PAPR

QPSK



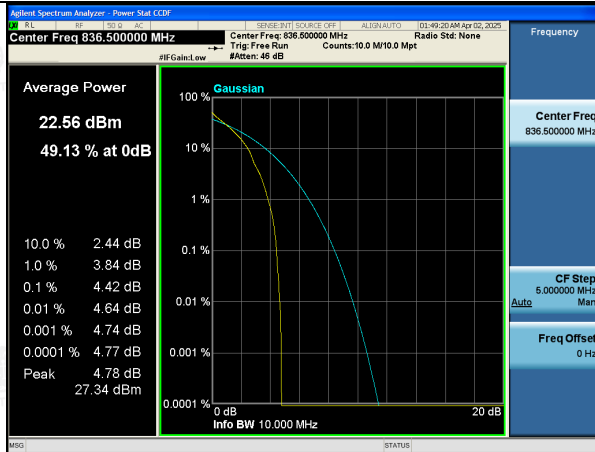
1RB#0

16QAM

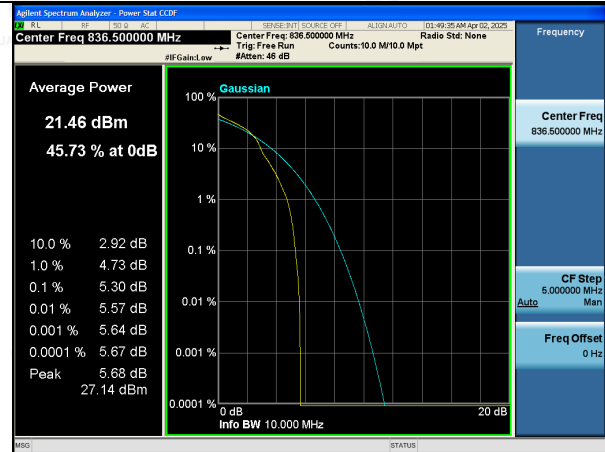


1RB#0

Low Channel

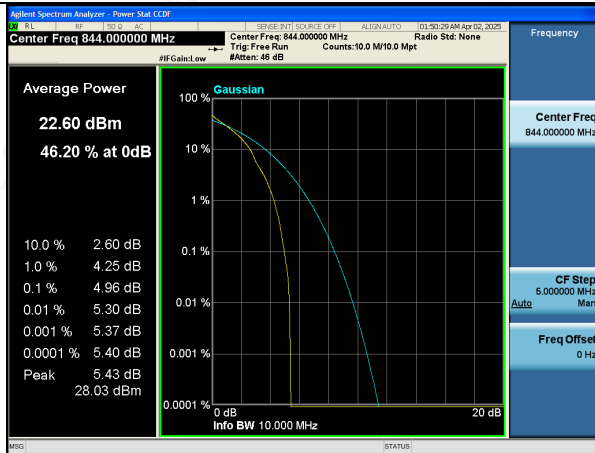


1RB#0

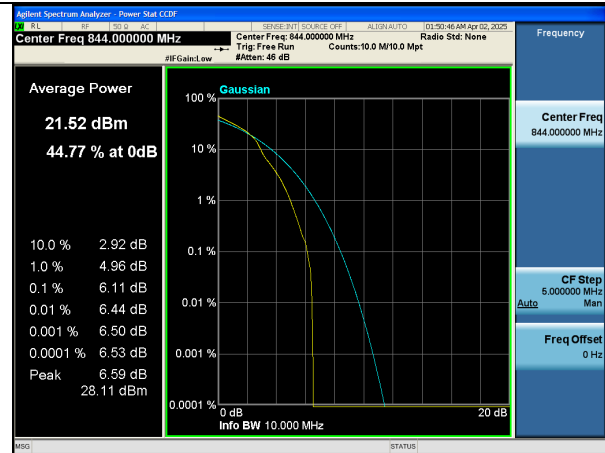


1RB#0

Middle Channel



1RB#0



1RB#0

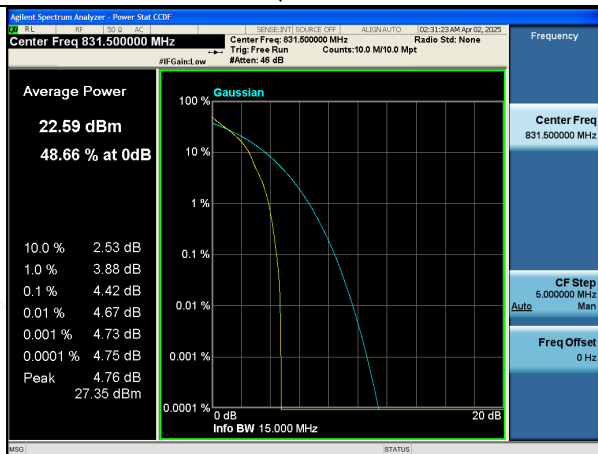
High Channel

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

LTE FDD Band 26-15MHz Channel Bandwidth PAPR

QPSK

16QAM



1RB#0

1RB#0

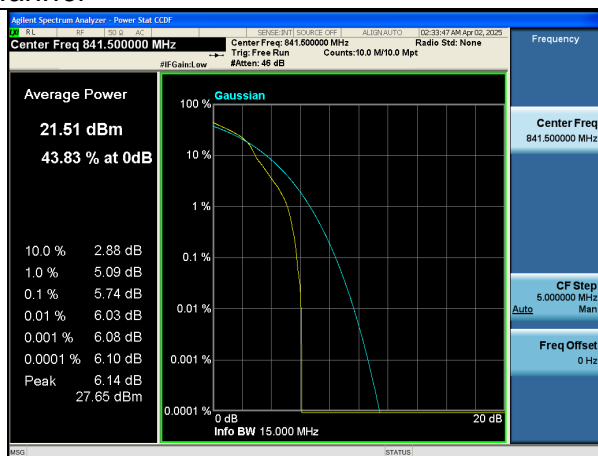
Low Channel



1RB#0

1RB#0

Middle Channel



1RB#0

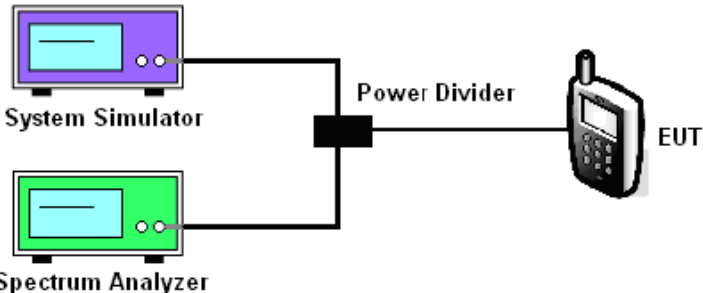
1RB#0

High Channel

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

5.4. 99% Occupied Bandwidth and 26dB Bandwidth Measurement

5.4.1. Test Specification

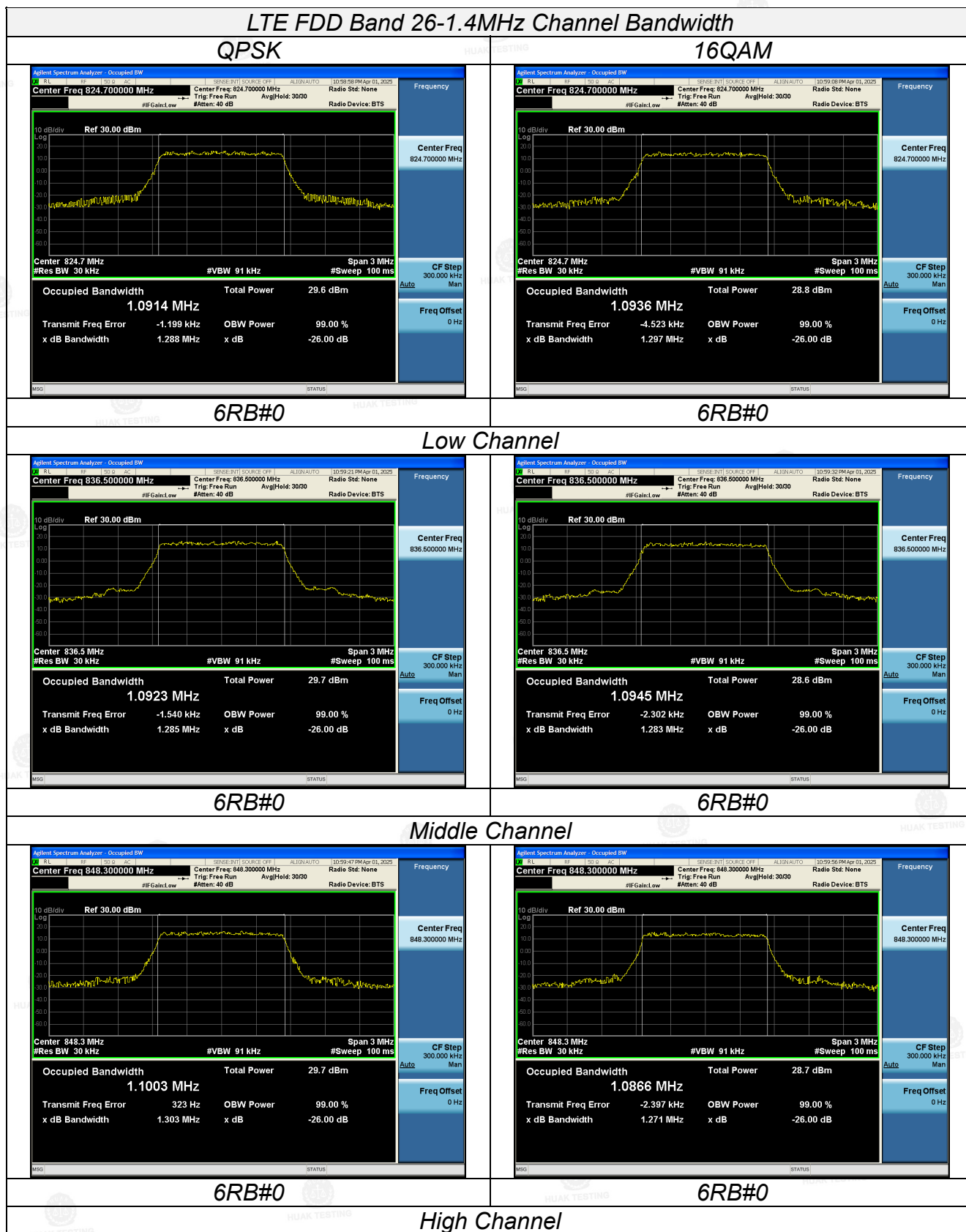
Test Method:	FCC part 2.1049
Limit:	N/A
Test Setup:	 The diagram shows a System Simulator (purple box) and a Spectrum Analyzer (green box) connected to a Power Divider (black box). The Power Divider is then connected to the EUT (Equipment Under Test, represented by a mobile phone icon).
Test Procedure:	1. The testing follows FCC KDB 971168 D01v03 Section 4.2. 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider. 3. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 4. The 99% occupied bandwidth were measured, set RBW= 1% of OBW, VBW= 3*RBW, sample detector, trace maximum hold. 5. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.
Test Result:	PASS

TEST RESULTS

Remark:

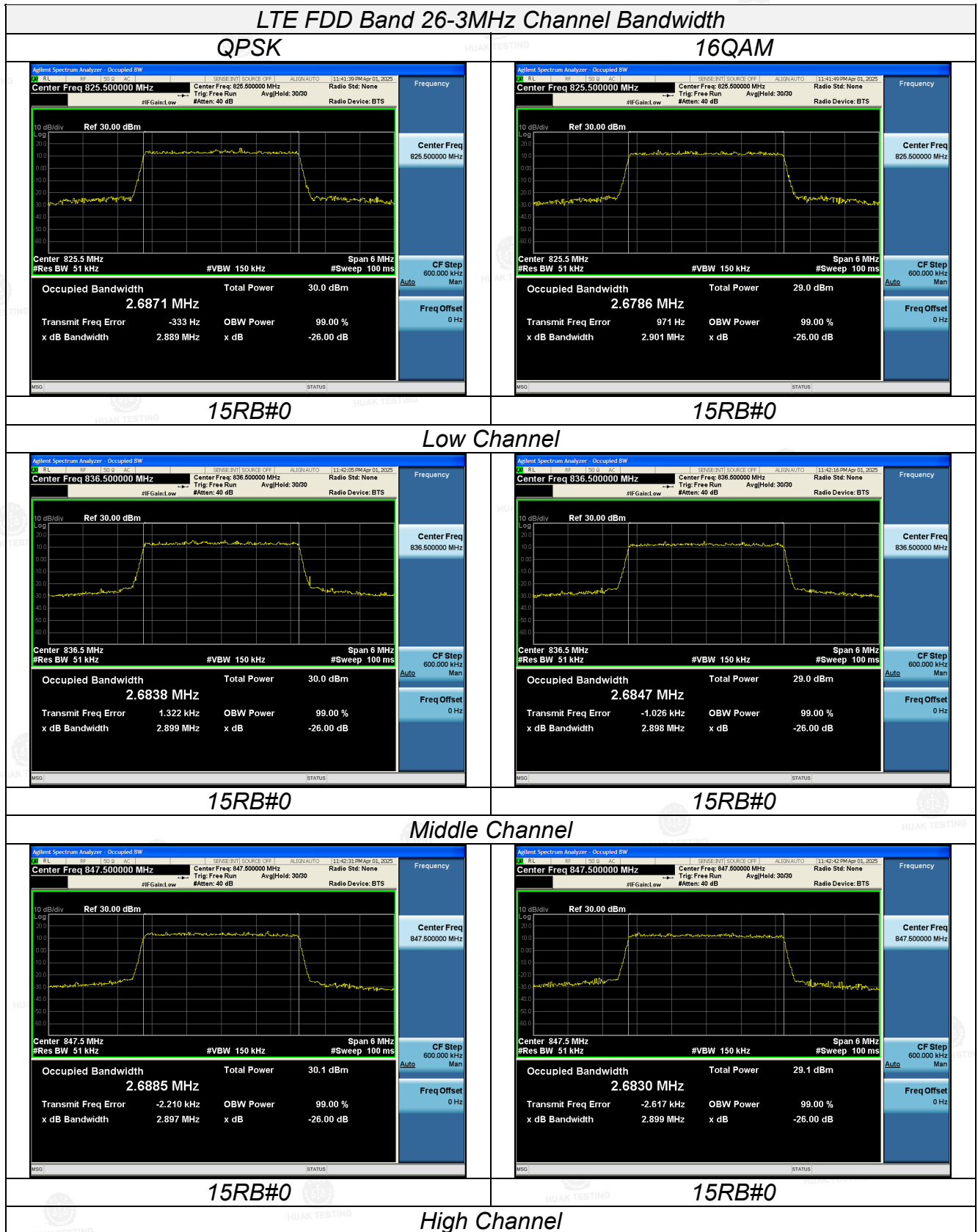
1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 26.

LTE FDD Band 26						
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	824.7	1.288	1.297	1.0914	1.0936
		836.5	1.285	1.283	1.0923	1.0945
		848.3	1.303	1.271	1.1003	1.0866
3 MHz	15RB#0	825.5	2.889	2.901	2.6871	2.6786
		836.5	2.899	2.898	2.6838	2.6847
		847.5	2.897	2.899	2.6885	2.6830
5 MHz	25RB#0	826.5	4.948	4.913	4.4994	4.4928
		836.5	4.910	4.951	4.4889	4.4948
		846.5	4.941	4.936	4.4965	4.5031
10 MHz	50RB#0	829.0	9.796	9.745	8.9934	8.9957
		836.5	9.772	9.774	8.9876	8.9770
		844.0	9.768	9.735	8.9650	8.9619
15 MHz	75RB#0	831.5	14.60	14.62	13.475	13.479
		836.5	14.65	14.62	13.455	13.474
		841.5	14.56	14.56	13.425	13.459



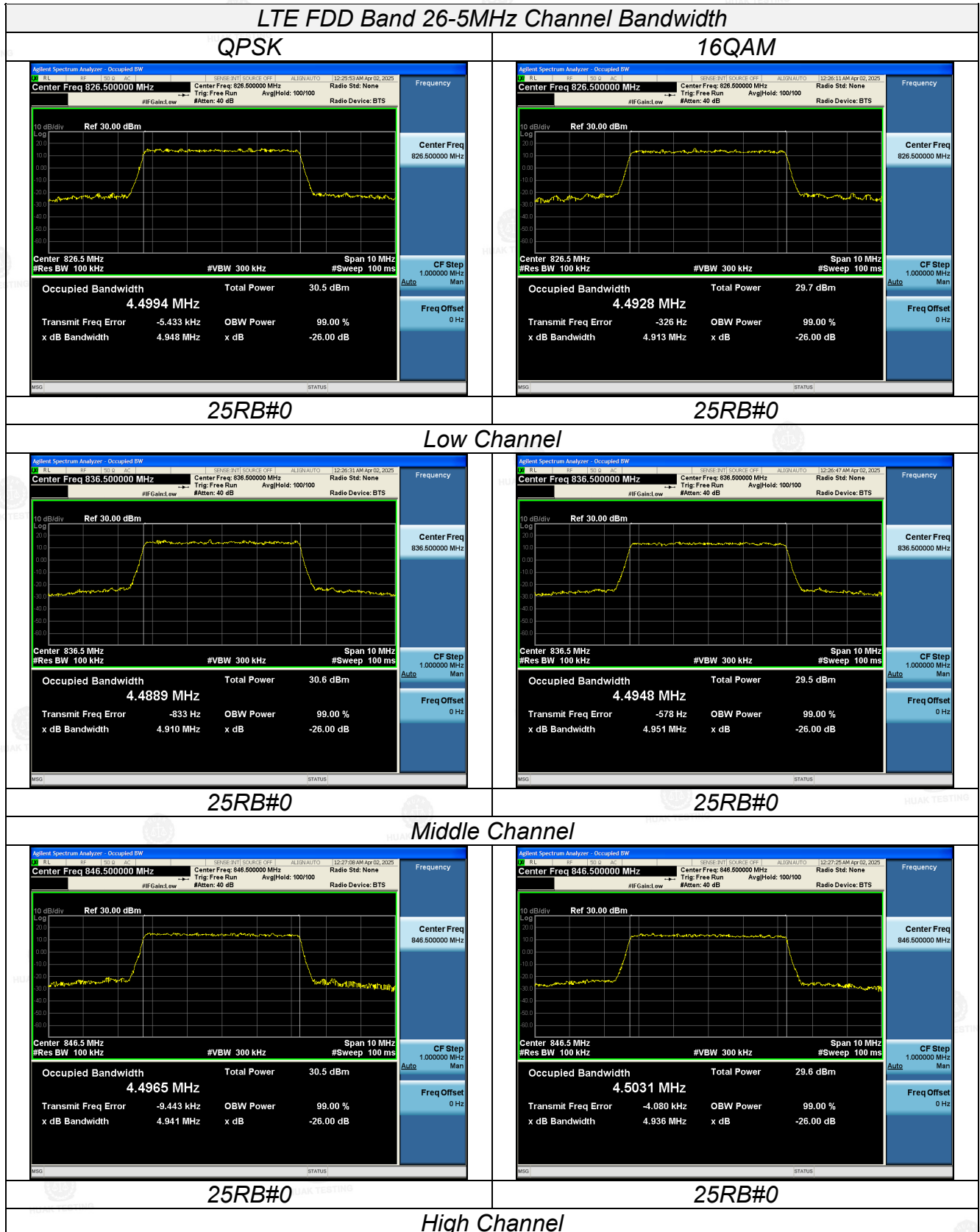
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

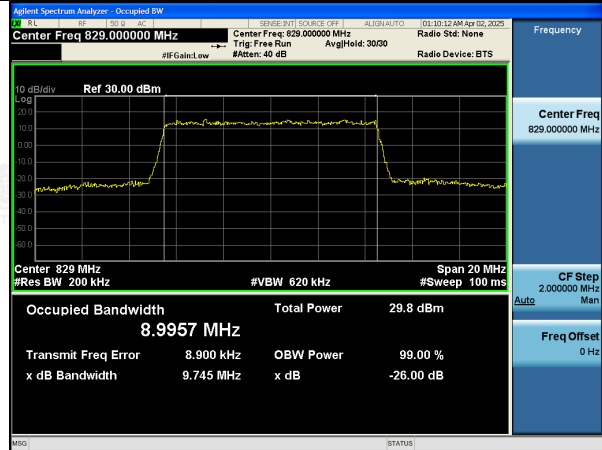
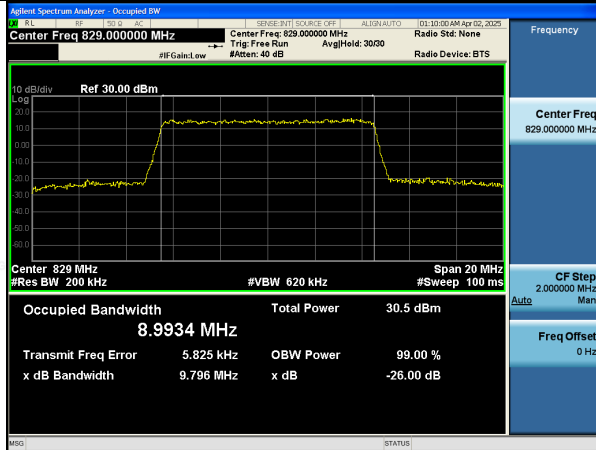


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

LTE FDD Band 26-10MHz Channel Bandwidth

QPSK

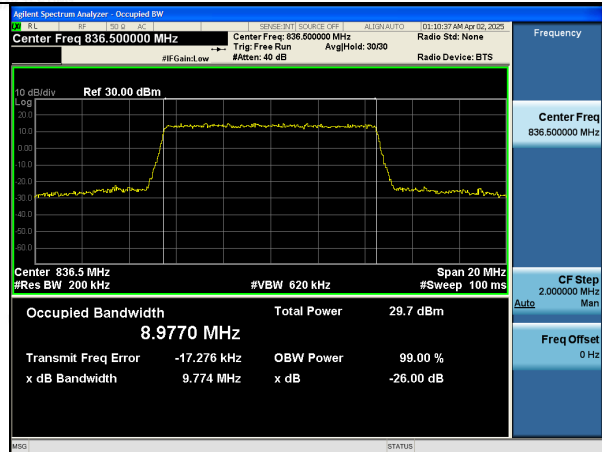
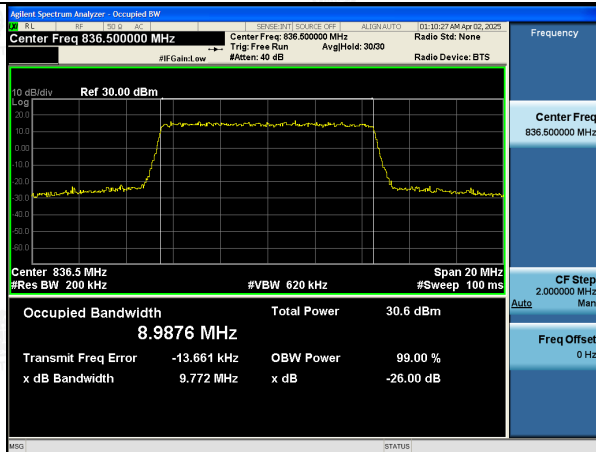
16QAM



50RB#0

50RB#0

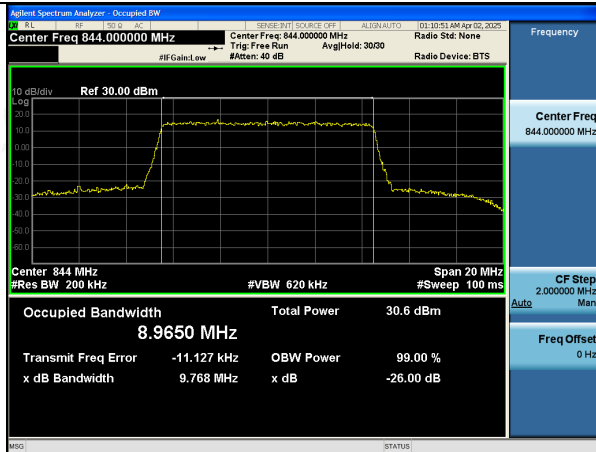
Low Channel



50RB#0

50RB#0

Middle Channel



50RB#0

50RB#0

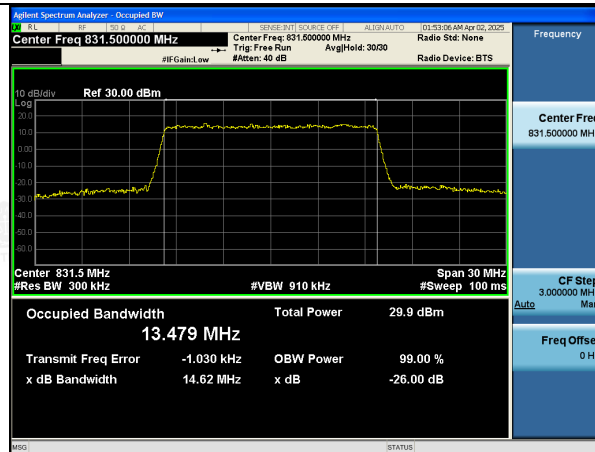
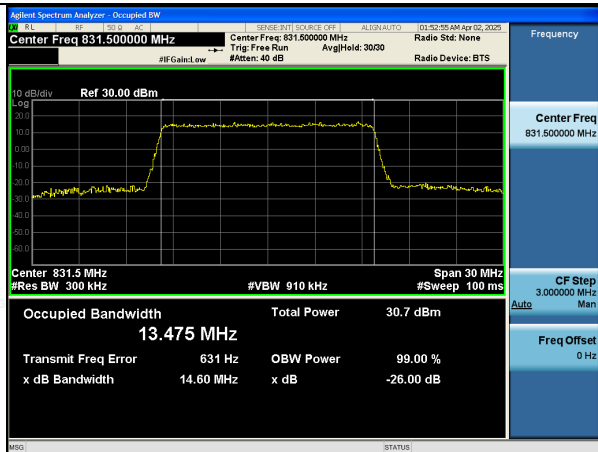
High Channel

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

LTE FDD Band 26-15MHz Channel Bandwidth

QPSK

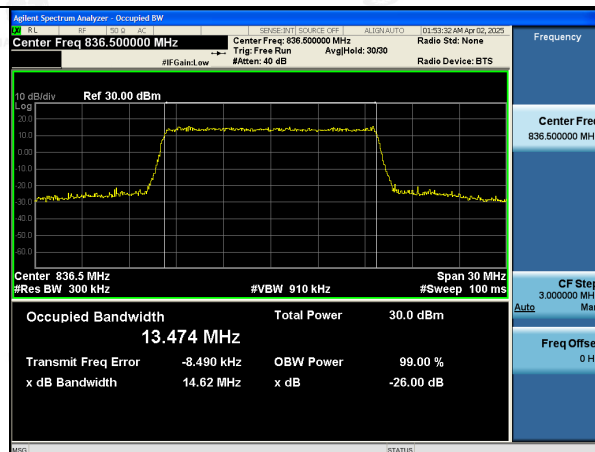
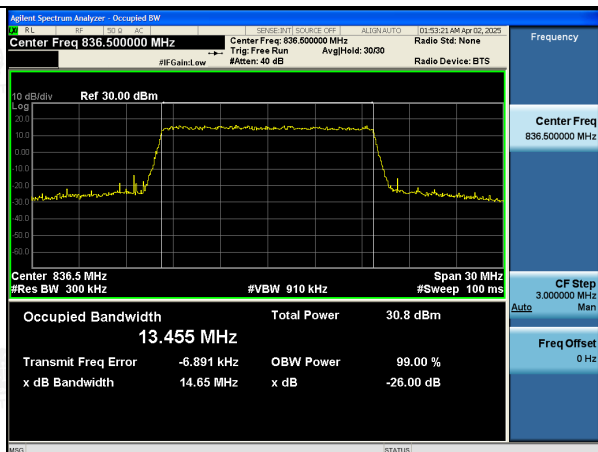
16QAM



75RB#0

75RB#0

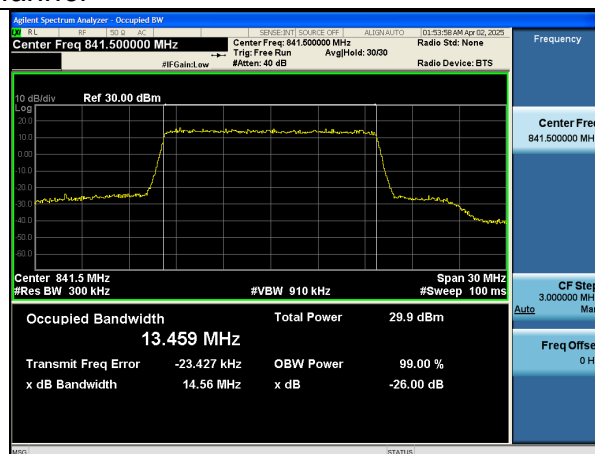
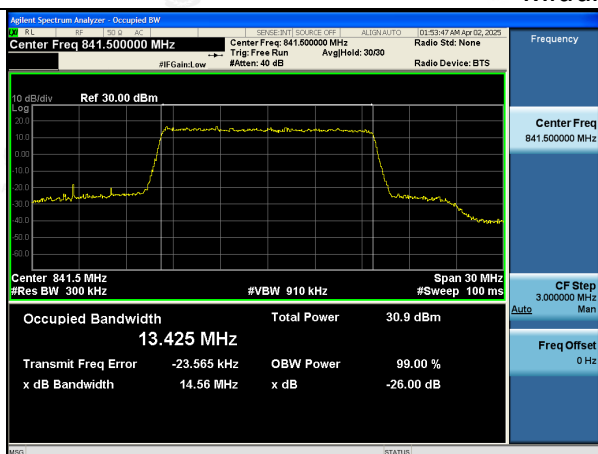
Low Channel



75RB#0

75RB#0

Middle Channel



75RB#0

75RB#0

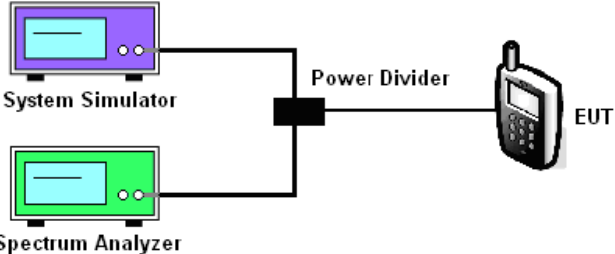
High Channel

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

5.5. Band Edge and Conducted Spurious Emission Measurement

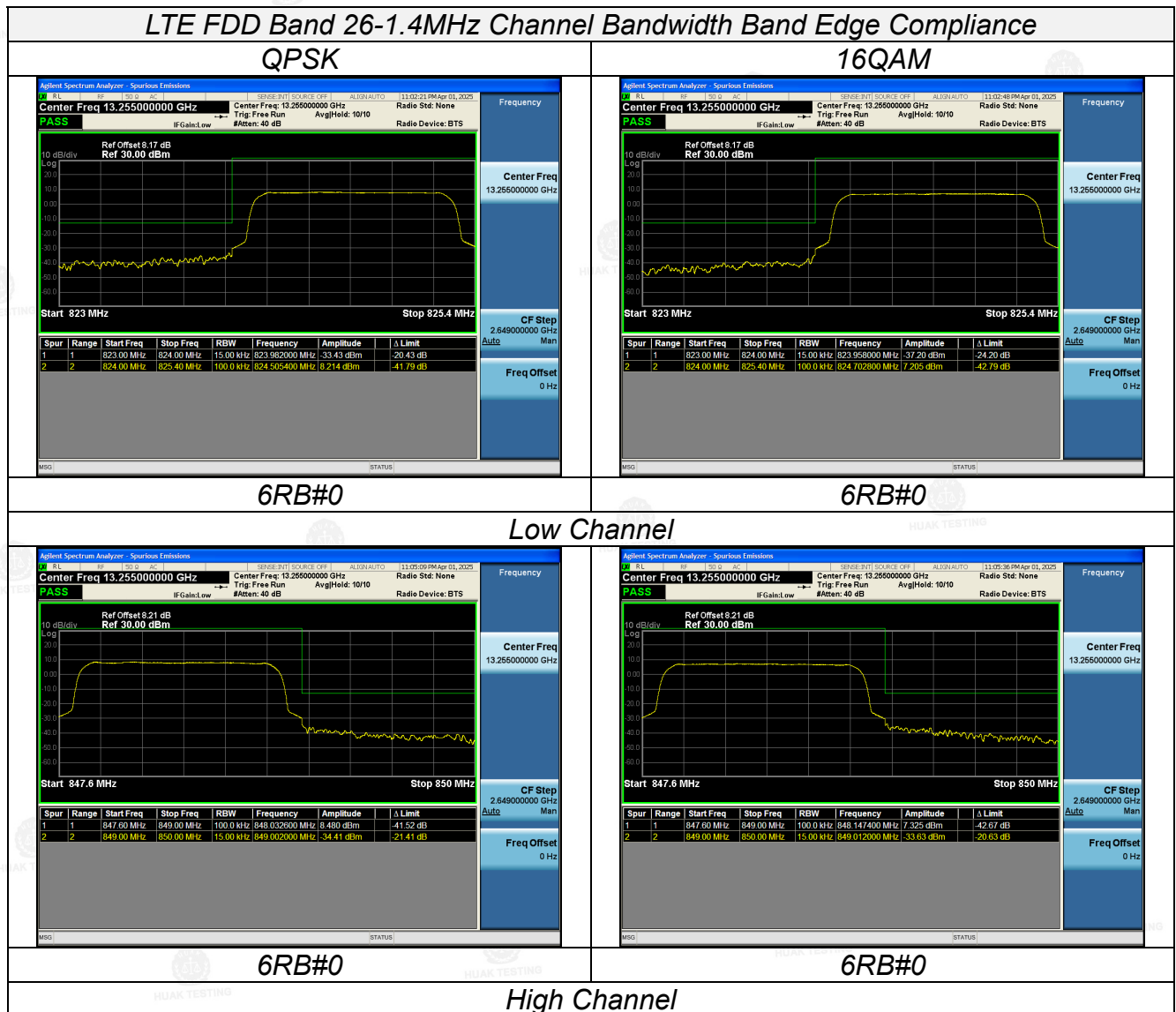
5.5.1. Test Specification

Test Requirement:	FCC part 22.917
Test Method:	FCC part 2.1051
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 $43 + 10\log(P)$ dB.
Test Setup:	 The diagram shows a System Simulator (purple box) and a Spectrum Analyzer (green box) connected to a Power Divider (black box). The Power Divider is also connected to the EUT (Equipment Under Test, represented by a mobile phone icon).
Test Procedure:	1. The testing follows FCC KDB 971168 D01v03 Section 6.0. 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider. 3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement. 4. The band edges of low and high channels for the highest RF powers were measured. 5. The conducted spurious emission for the whole frequency range was taken. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

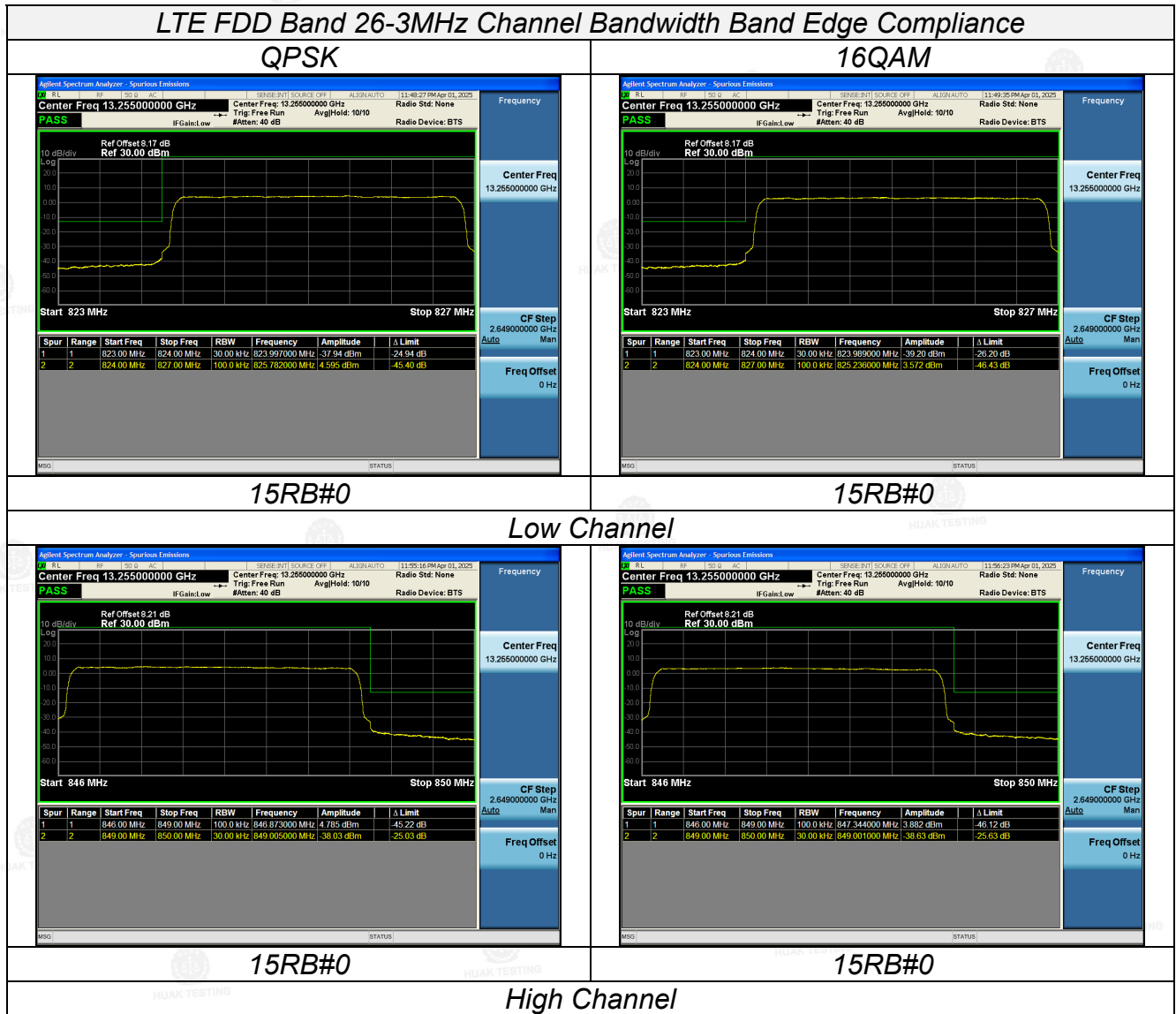
TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 26.

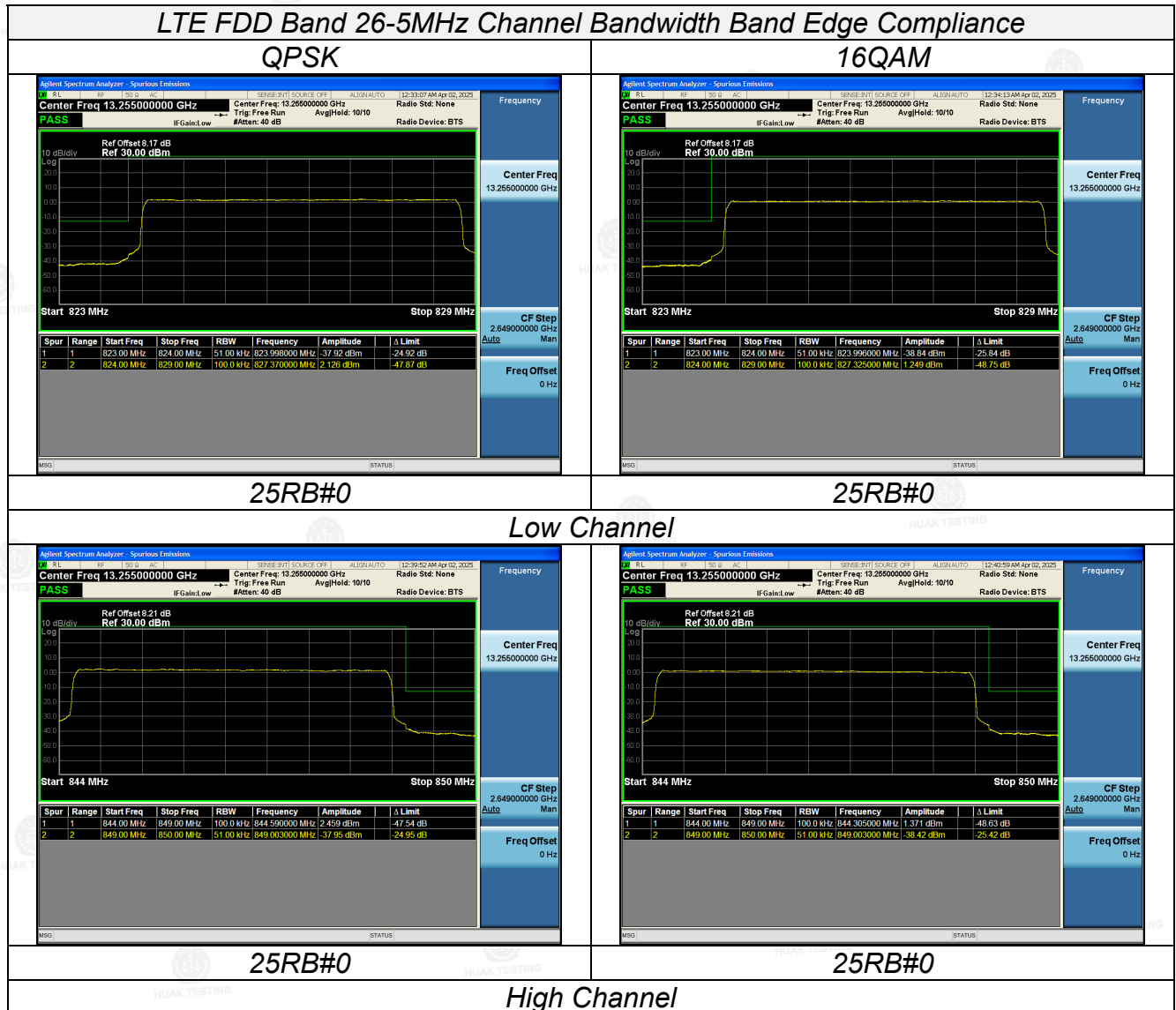


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

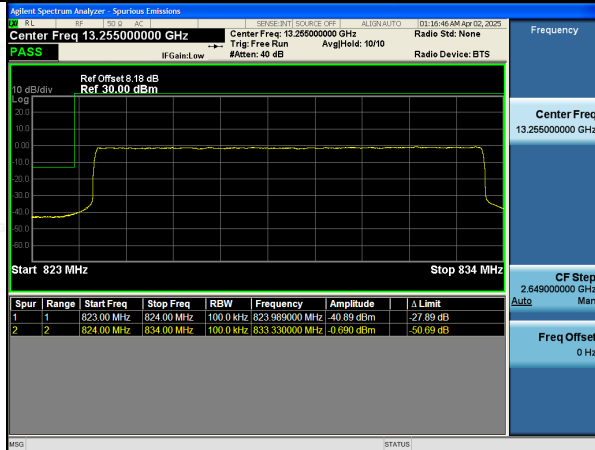
Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



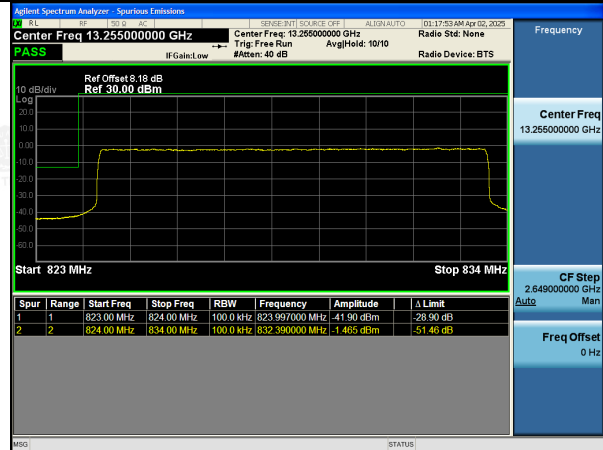
LTE FDD Band 26-10MHz Channel Bandwidth Band Edge Compliance

QPSK

QPSK



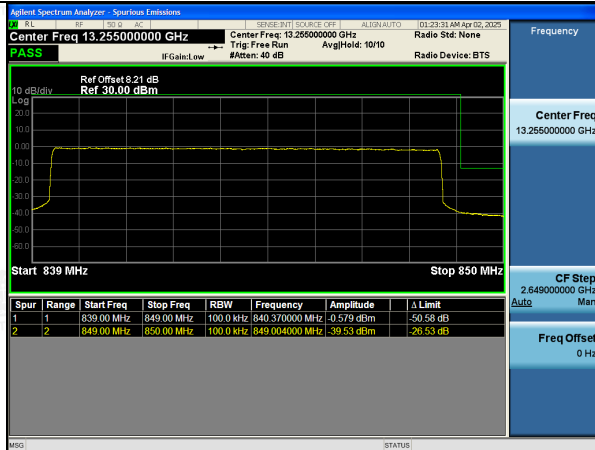
16QAM



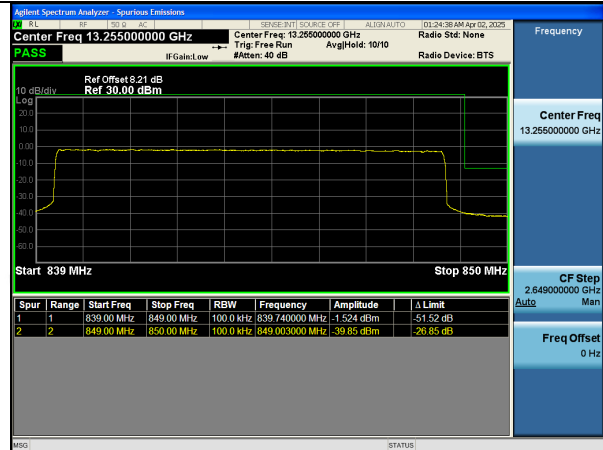
50RB#0

50RB#0

Low Channel



50RB#0



50RB#0

High Channel

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

Shenzhen HUAKE Testing Technology Co., Ltd. Tel.: +86-0755-2302 9901 E-mail: info@huak.com Web.: www.huak.com
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China