





Report No.: FYCR220600023108

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# TEST REPORT

**Application No.:** FYCR2206000231AT **Applicant:** PAX Technology Limited

Address of Applicant: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Hong Kong

Manufacturer: PAX Technology Limited

Address of Manufacturer: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Hong Kong

**Equipment Under Test (EUT):** 

**EUT Name:** Smart Payment Tablet

 Model No.:
 A3700

 Trade Mark:
 PAX

 FCC ID:
 V5PA3700

 Standard(s):
 47 CFR Part 2

47 CFR Part 22 subpart H 47 CFR Part 24 subpart E 47 CFR Part 27 subpart C

**Date of Receipt:** 2022-06-14

**Date of Test:** 2022-06-16 to 2022-07-15

**Date of Issue:** 2022-07-18

Test Result: Pass

Winkey Wang
Winkey Wang
EMC Technical Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Version Chapter Date Modifier						
01		2022-07-18		Original			

Authorized for issue by:		
	Tree Zhan	
	Tree Zhan/Project Engineer	-
	WinkeyWarg	
	Winkey Wang/Reviewer	-



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# 2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Output Power Data	\$2.1046 \$22.913 \$24.232 \$27.50(b) \$27.50(c) \$27.50(d)	ERP≤ 7W(LTE Band 5) EIRP≤ 2W(LTE Band 2) ERP≤ 3W(LTE Band 13) ERP≤ 3W(LTE Band 12,17) EIRP≤ 1W(LTE Band 4	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(d)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §22.917 §24.238 §27.50(c) §27.50(g) §27.50(h)	<ul> <li>≤ -13dBm (LTE Band5)</li> <li>≤ -13dBm (LTE Band2)</li> <li>Refer to clause 6.4 for LTE Band13</li> <li>≤ -13dBm (LTE Band12,17)</li> <li>≤ -13dBm (LTE Band4</li> </ul>	PASS
Spurious emissions at antenna terminals	§2.1051 §22.917 §24.238 §27.50(c) §27.50(g) §27.50(h)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) Refer to clause 6.5 for LTE Band13 ≤ -13dBm (LTE Band12,17) ≤ -13dBm (LTE Band4	PASS
Field strength of spurious radiation	\$2.1051 \$22.917 \$24.238 \$27.50(c) \$27.50(g) \$27.50(h)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) Refer to clause 6.6 for LTE Band13 ≤ -13dBm (LTE Band12,17) ≤ -13dBm (LTE Band4	PASS
Frequency stability	§2.1055 §22.355 §24.235 §27.54	≤ ±2.5ppm.	PASS



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## 4 General Information

## 4.1 Details of E.U.T.

Power supply: DC3.86V by li-ion battery

Recharged by AC/DC power adapter

Adapter M/N: GLH-PD18W-U

Adapter Input: 100-240V, 50/60Hz, 0.5A Adapter Output: DC5V/3A, 9V/2A, 12V/1.5A

Cable(s): USB Type C To Type C Cable: 1m shielded cable without ferrite core

Sample Type: Portable production

LTE Operation Frequency

Band:

LTE FDD Band 2,4,5,12,13,17

Modulation Type: QPSK, 16QAM

LTE Power Class: Level 3

Antenna Type: PIFA Antenna

LTE B2, 1dBi

4, 1dBi

5, 0.5dBi

Antenna Gain: 3, 0.5dBi

12, 0.5dBi

17, 0.5dBi

SIM Card: This device has dual SIM Card sockets. Both the SIM sockets have

been tested. SIM1 was worst case, only record SIM1.

#### 4.2 Test Frequency

	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
LTE FDD	5	1852.5	1880	1907.5
Band 2	10	1855.0	1880	1905.0
	15	1857.5	1880	1902.5
	20	1860.0	1880	1900.0
	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	1.4	1710.7	1732.5	1754.3



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	3	1711.5	1732.5	1753.5
	5	1712.5	1732.5	1752.5
LTE FDD Band 4	10	1715.0	1732.5	1750.0
Dana 4	15	1717.5	1732.5	1747.5
	20	1720.0	1732.5	1745.0
	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	1.4	824.7	836.5	848.3
LTE FDD	3	825.5	836.5	847.5
Band 5	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	1.4	699.7	707.5	715.3
LTE FDD	3	700.5	707.5	714.5
Band 12	5	701.5	707.5	713.5
	10	704.0	707.5	711.0
	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
LTE FDD	5	779.5	782.0	784.5
Band 13	10	/	782.0	/
	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
LTE FDD	5	706.5	710.0	713.5
Band 17	10	709.0	710.0	711.0



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#### 4.3 Test Environment

Environment Parameter	Selected Values During Tests		
Relative Humidity		52%	
Atmospheric Pressure:	1020Pa		
	TL	-30°C	
Temperature:	TN	+20°C	
	TH	+50°C	
	VL	3.5 V	
Voltage:	VN	3.86 V	
	VH	4.45 V	

NOTE: VL= lower extreme test voltage

VN= nominal voltage

VH= upper extreme test voltage TL= lower extreme test temperature

TN= normal temperature

TH= upper extreme test temperature

## 4.4 Description of Support Units

The EUT has been tested independent unit.

#### 4.5 Measurement Uncertainty

No.	ltem	Measurement Uncertainty
1	Radio Frequency	± 5.4 x 10 <sup>-8</sup>
2	Duty cycle	± 0.3%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.8dB
5	RF power density	± 0.4dB
6	Conducted Spurious emissions	± 2.7dB
7	Padiated Spurious emission test	± 3.1dB (Below 1GHz)
/	Radiated Spurious emission test	± 4.4dB (Above 1GHz)
8	Temperature test	± 1°C
9	Humidity test	± 3%
10	Supply voltages	± 1.5%
11	Time	± 3%



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#### 4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark,Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC -Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

#### 4.8 Deviation from Standards

None

#### 4.9 Abnormalities from Standard Conditions

None



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# 5 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Programmable DC	Chroma	62024P-80-60	SEM011-09	2021/07/13	2022/07/12
Source	Chioma	020247-00-00	3EM011-09	2022/07/12	2023/07/11
Programmable Temperature &	Votsch Industrietechnik	VT 4002	SEM002-15	2021/07/13	2022/07/12
Humidity Chamber	GmbH	V 1 4002	SEIVI002-15	2022/07/12	2023/07/11
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2021/07/13	2022/07/12
Spectrum Analyzei	Nonue & Scriwarz	1 3043	3LIVI004-00	2022/07/12	2023/07/11
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA-	SEM021-09	2021/07/13	2022/07/12
Attenuator	Huber+Suriner	50-1	3EIVIUZ 1-09	2022/07/12	2023/07/11
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2022/03/29	2023/03/28
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2021/07/13	2022/07/12
rower Serisor	NETOIGHT	UZUZTAA	3EIVI009-15	2022/07/12	2023/07/11

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver	\ ailont	N9038A	SEM004-05	2021/07/13	2022/07/12
INIVE FINIT LECEINEL	Agilent	N9030A	3E1VI004-05	2022/07/12	1/9/25 2024/9/24 /07/13 2022/07/12 /07/12 2023/07/11 /07/13 2022/07/12 /07/12 2023/07/11 /07/13 2022/07/12 /07/12 2023/07/11 /07/13 2022/07/12 /07/12 2023/07/11 /08/08 2022/08/07 /07/13 2022/07/12 /07/13 2022/07/12 /07/13 2022/07/12 /07/13 2023/07/11 /07/13 2022/07/12 /07/12 2023/07/11
Dro omplifior	HP	8447D	SEM005-02	2021/07/13	2022/07/12
Pre-amplifier	ПР	0447D	3EIVI005-02	2022/07/12	021/9/25 2024/9/24 021/07/13 2022/07/12 022/07/12 2023/07/11 021/07/13 2022/07/12 022/07/12 2023/07/11 021/07/13 2022/07/12 022/07/12 2023/07/11 021/07/13 2022/07/12 022/07/12 2023/07/11 019/08/08 2022/08/07 021/07/13 2022/07/12 022/07/12 2023/07/11 022/07/12 2023/07/11 021/07/13 2022/07/12 022/07/12 2023/07/11
Cnostrum Angluzor	Consistence Analysis Balada 9 Calculate 404000 CEMO	SEM004.09	2021/07/13	2022/07/12	
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08 2022/07/12	2022/07/12	2023/07/11
Low Noise Amplifier	CLAVIIO	BDLNA-0118-	SEMOOF OF	2021/07/13	2022/07/12
Low Noise Amplifier	CLAVIIO	352810	SEM005-05 2022/07/12 2023/0	2023/07/11	
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2019/08/08	2022/08/07
Signal Generator(9kHz-	NE4ZOD	MVEQQZQQQZ	A mile mt	2021/07/13	2022/07/12
40GHz)	N5173B	MY53270267	Agilent	2022/07/12	2023/07/11
Dro overlifier	LID	0447D	CEMOOF 02	2021/07/13 2022/07/12	2022/07/12
Pre-amplifier	HP	8447D	SEM005-02	2022/07/12	2023/07/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10



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Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25	
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24	
Chaotrum Anglyzor	Rohde & Schwarz	101200	SEM004.09	2021/07/13	2022/07/12	
Spectrum Analyzer	Ronde & Schwarz	101288	SEM004-08	2022/07/12	2023/07/11	
Low Noice Amplifier	CLAV/IIO	BDLNA-0118-	0514005.05	2021/07/13	2022/07/12	
Low Noise Amplifier	CLAVIIO	352810	SEM005-05	2022/07/12 20	2023/07/11	
D	Compliance	DAD 0040 50	0514005.00	2021/07/13	2022/07/12	
Pre-amplifier	Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/07/12	2023/07/11	
Dro omplifier	Dobdo & Cobwerz	CH14 H0E2	SEM005 17	2021/07/13	2022/07/12	
Pre-amplifier	Rohde & Schwarz	CH14-H052	CH 14-HU52	SEM005-17	2022/07/12	2023/07/11
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2020/06/26	2023/06/25	
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2022/03/29	2023/03/28	

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature	Mingle	TH607	SEM002-22	2021/07/13	2022/07/12
Indicator	Mingle	1 11007	3EIVI002-22	2022/07/12	2023/07/11
Humidity/ Temperature	Mingle	TH607	SEM002-23	2021/07/13	2022/07/12
Indicator	Mingle	1 11007	3EIVI002-23	2022/07/12	2023/07/11
Barometer	DUMAI	DYM3	SEM002-24	2021/07/13	2022/07/12
Darometer	DOMAI	פואוזם	SEIVIUUZ-24	2022/07/12	2023/07/11



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# 6 Radio Spectrum Matter Test Results

## 6.1 Effective (Isotropic) Radiated Output Power Data

Test Requirement: §2.1046, §22.913, §24.232, §27.50(b), §27.50(c), §27.50(d)

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ERP≤ 7W(LTE Band 5)

EIRP≤ 2W(LTE Band 2) ERP≤ 3W(LTE Band 13) ERP≤ 3W(LTE Band 12,17) EIRP≤ 1W(LTE Band 4)

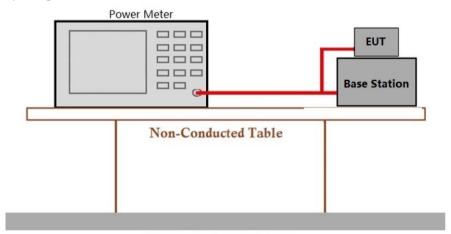
#### 6.1.1 E.U.T. Operation

**Operating Environment:** 

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.

#### 6.1.2 Test Setup Diagram



Ground Reference Plane

#### 6.1.3 Measurement Data

Please refer to Appendix\_LTE\_RF power



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### 6.2 Peak-Average Ratio

Test Requirement: §22.913,§24.232,§27.50(d)

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤13dB

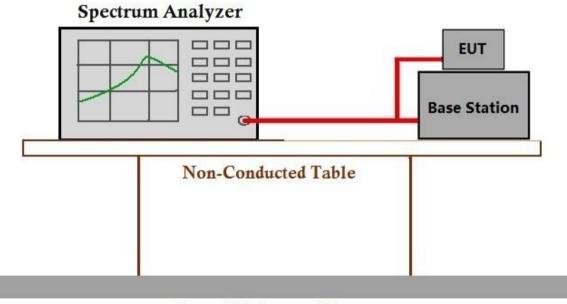
#### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.

### 6.2.2 Test Setup Diagram



## Ground Reference Plane

#### 6.2.3 Measurement Data

Please refer to Appendix\_LTE\_PAR



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#### 6.3 Bandwidth

Test Requirement: §2.1049(h)

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: OBW: No limit

EBW: No limit

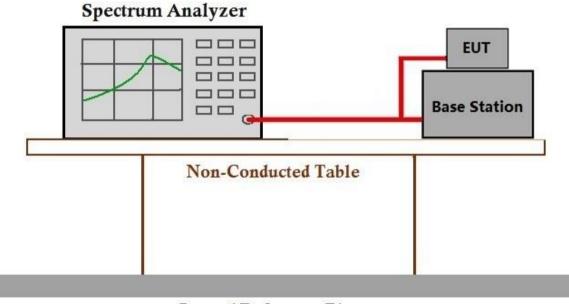
### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.

## 6.3.2 Test Setup Diagram



## Ground Reference Plane

#### 6.3.3 Measurement Data

Please refer to Appendix\_LTE\_Bandwidth



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### 6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §24.238, §27.53(c), §27.53(g), §27.53(h)

Test Method: ANSI C63.26, KDB 971168 D01 v03 Limit: ≤ -13dBm (LTE Band2,4,5,12,17)

For band 13:

(1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power

(P) by at least 43 + 10 log (P) dB;

(2) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations

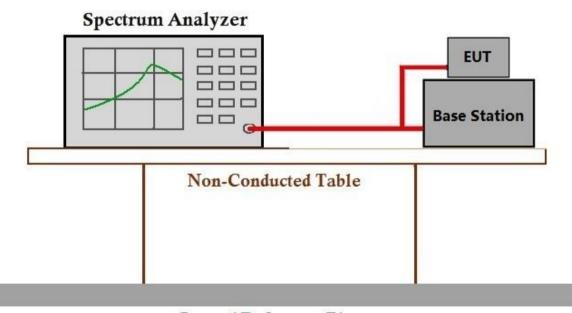
#### 6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.

#### 6.4.2 Test Setup Diagram



## Ground Reference Plane

#### 6.4.3 Measurement Data

Please refer to Appendix\_LTE\_Spurious emission



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#### 6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238, §27.53(c), §27.53(g), §27.53(h)

Test Method: ANSI C63.26, KDB 971168 D01 v03 Limit: ≤ -13dBm (LTE Band2,4,5,12,17)

For band 13:

(1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power

(P) by at least 43 + 10 log (P) dB;

(2) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $65 + 10 \log (P) dB$  in a 6.25 kHz band segment, for mobile and

portable stations

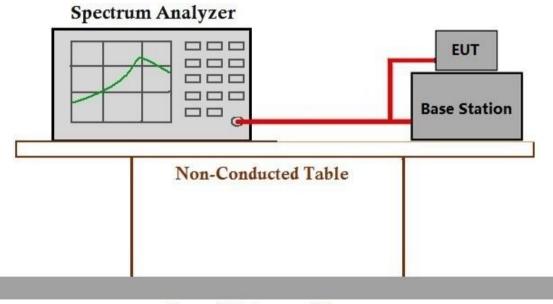
### 6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.

### 6.5.2 Test Setup Diagram



### Ground Reference Plane

#### 6.5.3 Measurement Data

Please refer to Appendix\_LTE\_Spurious emission



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## 6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238, §27.53(c), §27.53(g), §27.53(h)

Test Method: ANSI C63.26, KDB 971168 D01 v03 Limit: ≤ -13dBm (LTE Band2,4,5,12,17)

For band 13:

(1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power

(P) by at least 43 + 10 log (P) dB;

(2) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than  $65 + 10 \log (P) \, dB$  in a  $6.25 \, kHz$  band segment, for mobile and

portable stations

### 6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 18.5 °C Humidity: 39.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.



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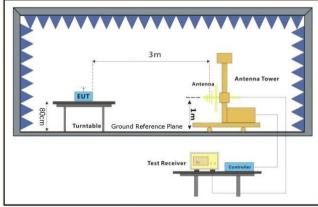


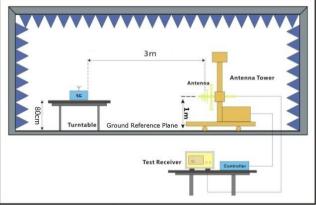
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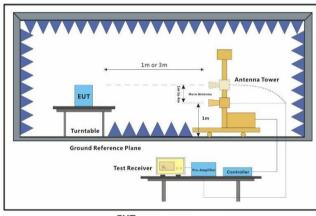
## 6.6.2 Test Setup Diagram

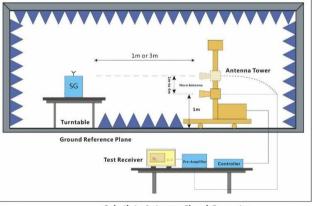




EUT

Substiute Antenna+Signal Generator





EUT

Substiute Antenna+Signal Generator



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#### 6.6.3 Measurement Procedure and Data

#### **Test Procedure:**

- (1)On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6)The transmitter shall than be rotated through 360 in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7)The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11)The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13)If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15)The input signal to 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 attenuation setting of the measuring receiver.
- (16)The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17)The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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	FDD I	LTE Band2-Lo	w channel, Mo	odulation: (	QPSK, Band	width: 20MF	Hz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3702	-50.15	-13	-37.15	-52.37	6.99	9.21	Horizontal	Pass
5553	-46.89	-13	-33.89	-49.21	8.27	10.59	Horizontal	Pass
7404	-43.9	-13	-30.9	-47.44	8.19	11.73	Horizontal	Pass
3702	-50.3	-13	-37.3	-52.52	6.99	9.21	Vertical	Pass
5553	-47.93	-13	-34.93	-50.25	8.27	10.59	Vertical	Pass
7404	-44.39	-13	-31.39	-47.93	8.19	11.73	Vertical	Pass

	FDD L1	ΓΕ Band2-Mido	dle channel, M	lodulation:	QPSK, Bai	ndwidth: 20M	IHz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3742	-51.46	-13	-38.46	-53.68	6.99	9.21	Horizontal	Pass
5613	-48	-13	-35	-50.32	8.27	10.59	Horizontal	Pass
7484	-44.01	-13	-31.01	-47.55	8.19	11.73	Horizontal	Pass
3742	-49.54	-13	-36.54	-51.76	6.99	9.21	Vertical	Pass
5613	-48.43	-13	-35.43	-50.75	8.27	10.59	Vertical	Pass
7484	-43.53	-13	-30.53	-47.07	8.19	11.73	Vertical	Pass

	FDD L	TE Band2-Hig	jh channel, Mo	odulation: (	QPSK, Band	dwidth: 20MI	Hz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3782	-49.64	-13	-36.64	-51.86	6.99	9.21	Horizontal	Pass
5673	-47.84	-13	-34.84	-50.16	8.27	10.59	Horizontal	Pass
7564	-43.96	-13	-30.96	-47.79	8.43	12.26	Horizontal	Pass
3782	-48.45	-13	-35.45	-50.67	6.99	9.21	Vertical	Pass
5673	-47.67	-13	-34.67	-49.99	8.27	10.59	Vertical	Pass
7564	-43.47	-13	-30.47	-47.3	8.43	12.26	Vertical	Pass



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	FDD I	LTE Band4-Lo	w channel, Mo	odulation: (	QPSK, Band	width: 20MF	Hz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422	-50.76	-13	-37.76	-53.34	5.72	8.3	Horizontal	Pass
5133	-47.57	-13	-34.57	-49.57	8.3	10.3	Horizontal	Pass
6844	-46.3	-13	-33.3	-49.85	7.7	11.25	Horizontal	Pass
3422	-50.85	-13	-37.85	-53.43	5.72	8.3	Vertical	Pass
5133	-47.05	-13	-34.05	-49.05	8.3	10.3	Vertical	Pass
6844	-47.45	-13	-34.45	-51	7.7	11.25	Vertical	Pass

	FDD L1	ΓΕ Band4-Mido	dle channel, M	lodulation:	QPSK, Bai	ndwidth: 20M	lHz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447	-50.7	-13	-37.7	-53.28	5.72	8.3	Horizontal	Pass
5170.5	-48.32	-13	-35.32	-50.32	8.3	10.3	Horizontal	Pass
6894	-46.27	-13	-33.27	-49.82	7.7	11.25	Horizontal	Pass
3447	-50.99	-13	-37.99	-53.57	5.72	8.3	Vertical	Pass
5170.5	-47.55	-13	-34.55	-49.55	8.3	10.3	Vertical	Pass
6894	-46.29	-13	-33.29	-49.84	7.7	11.25	Vertical	Pass

	FDD L	TE Band4-Hig	gh channel, Mo	odulation: (	QPSK, Band	dwidth: 20MI	Hz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472	-50.82	-13	-37.82	-53.4	5.72	8.3	Horizontal	Pass
5208	-47.02	-13	-34.02	-49.02	8.3	10.3	Horizontal	Pass
6944	-45.45	-13	-32.45	-49	7.7	11.25	Horizontal	Pass
3472	-50.66	-13	-37.66	-53.24	5.72	8.3	Vertical	Pass
5208	-47.08	-13	-34.08	-49.08	8.3	10.3	Vertical	Pass
6944	-45.53	-13	-32.53	-49.08	7.7	11.25	Vertical	Pass



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	FDD I	_TE Band5-Lo	w channel, Mo	dulation: (	QPSK, Band	width: 10MH	Hz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1649	-59.57	-13	-46.57	-61.08	3.77	7.43	Horizontal	Pass
2473.5	-54.86	-13	-41.86	-55.04	4.75	7.08	Horizontal	Pass
3298	-51.8	-13	-38.8	-52.23	5.72	8.3	Horizontal	Pass
1649	-58.57	-13	-45.57	-60.08	3.77	7.43	Vertical	Pass
2473.5	-55.18	-13	-42.18	-55.36	4.75	7.08	Vertical	Pass
3298	-51.39	-13	-38.39	-51.82	5.72	8.3	Vertical	Pass

	FDD L	ΓΕ Band5-Midd	dle channel, M	lodulation:	QPSK, Bai	ndwidth: 10M	IHz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1664	-59.29	-13	-46.29	-60.8	3.77	7.43	Horizontal	Pass
2496	-54.35	-13	-41.35	-54.53	4.75	7.08	Horizontal	Pass
3328	-50.69	-13	-37.69	-51.12	5.72	8.3	Horizontal	Pass
1664	-58.94	-13	-45.94	-60.45	3.77	7.43	Vertical	Pass
2496	-54.31	-13	-41.31	-54.49	4.75	7.08	Vertical	Pass
3328	-51.25	-13	-38.25	-51.68	5.72	8.3	Vertical	Pass

	FDD L	TE Band5-Hig	gh channel, Mo	odulation: (	QPSK, Band	lwidth: 10Ml	Hz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1679	-59.05	-13	-46.05	-60.56	3.77	7.43	Horizontal	Pass
2518.5	-55.89	-13	-42.89	-56.21	5.13	7.6	Horizontal	Pass
3358	-51.04	-13	-38.04	-51.47	5.72	8.3	Horizontal	Pass
1679	-57.81	-13	-44.81	-59.32	3.77	7.43	Vertical	Pass
2518.5	-54.57	-13	-41.57	-54.89	5.13	7.6	Vertical	Pass
3358	-50.69	-13	-37.69	-51.12	5.72	8.3	Vertical	Pass



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	FDD L	TE Band12-Lo	w channel, M	odulation:	QPSK, Band	dwidth: 10M	Hz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1399	-44.83	-13	-31.83	-45.21	2.64	5.17	Horizontal	Pass
2098.5	-49.19	-13	-36.19	-49.37	4.75	7.08	Horizontal	Pass
2798	-53.65	-13	-40.65	-53.97	5.13	7.6	Horizontal	Pass
1399	-44.49	-13	-31.49	-44.87	2.64	5.17	Vertical	Pass
2098.5	-47.18	-13	-34.18	-47.36	4.75	7.08	Vertical	Pass
2798	-54.1	-13	-41.1	-54.42	5.13	7.6	Vertical	Pass

	FDD LT	E Band12-Mid	dle channel, N	Modulation	: QPSK, Ba	ndwidth: 10N	MHz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406	-43.83	-13	-30.83	-44.21	2.64	5.17	Horizontal	Pass
2109	-50.06	-13	-37.06	-50.24	4.75	7.08	Horizontal	Pass
2812	-54.53	-13	-41.53	-54.85	5.13	7.6	Horizontal	Pass
1406	-43.41	-13	-30.41	-43.79	2.64	5.17	Vertical	Pass
2109	-48.86	-13	-35.86	-49.04	4.75	7.08	Vertical	Pass
2812	-54.63	-13	-41.63	-54.95	5.13	7.6	Vertical	Pass

FDD LTE Band12-High channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0									
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result	
1413	-45.47	-13	-32.47	-45.85	2.64	5.17	Horizontal	Pass	
2121.5	-50.83	-13	-37.83	-51.01	4.75	7.08	Horizontal	Pass	
2826	-54.08	-13	-41.08	-54.4	5.13	7.6	Horizontal	Pass	
1413	-43.75	-13	-30.75	-44.13	2.64	5.17	Vertical	Pass	
2121.5	-48.86	-13	-35.86	-49.04	4.75	7.08	Vertical	Pass	
2826	-53.54	-13	-40.54	-53.86	5.13	7.6	Vertical	Pass	



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	FDD LTE Band13-Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1555	-52.96	-13	-39.96	-54.47	3.77	7.43	Horizontal	Pass			
2332.5	-52.67	-13	-39.67	-52.85	4.75	7.08	Horizontal	Pass			
3110	-51.04	-13	-38.04	-51.47	5.72	8.3	Horizontal	Pass			
1555	-56.38	-13	-43.38	-57.89	3.77	7.43	Vertical	Pass			
2332.5	-47.47	-13	-34.47	-47.65	4.75	7.08	Vertical	Pass			
3110	-50.97	-13	-37.97	-51.4	5.72	8.3	Vertical	Pass			



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	FDD LTE Band17-Low channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1409	-44.24	-13	-31.24	-44.62	2.64	5.17	Horizontal	Pass			
2113.5	-50.22	-13	-37.22	-50.4	4.75	7.08	Horizontal	Pass			
2818	-54.14	-13	-41.14	-54.46	5.13	7.6	Horizontal	Pass			
1409	-42.59	-13	-29.59	-42.97	2.64	5.17	Vertical	Pass			
2113.5	-47.43	-13	-34.43	-47.61	4.75	7.08	Vertical	Pass			
2818	-53.54	-13	-40.54	-53.86	5.13	7.6	Vertical	Pass			

	FDD LTE Band17-Middle channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1411	-44.17	-13	-31.17	-44.55	2.64	5.17	Horizontal	Pass			
2116.5	-47.04	-13	-34.04	-47.22	4.75	7.08	Horizontal	Pass			
2822	-53.74	-13	-40.74	-54.06	5.13	7.6	Horizontal	Pass			
1411	-42.69	-13	-29.69	-43.07	2.64	5.17	Vertical	Pass			
2116.5	-47.42	-13	-34.42	-47.6	4.75	7.08	Vertical	Pass			
2822	-53.18	-13	-40.18	-53.5	5.13	7.6	Vertical	Pass			

	FDD LTE Band17-High channel, Modulation: QPSK, Bandwidth: 10MHz, 1 RB0										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1413	-42.62	-13	-29.62	-43	2.64	5.17	Horizontal	Pass			
2121.5	-47.79	-13	-34.79	-47.97	4.75	7.08	Horizontal	Pass			
2826	-52.12	-13	-39.12	-52.44	5.13	7.6	Horizontal	Pass			
1413	-43.21	-13	-30.21	-43.59	2.64	5.17	Vertical	Pass			
2121.5	-47.62	-13	-34.62	-47.8	4.75	7.08	Vertical	Pass			
2826	-53.7	-13	-40.7	-54.02	5.13	7.6	Vertical	Pass			

Note: All modes have been tested and we found QPSK test mode has the worst test result. Only record the worst test result.



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### 6.7 Frequency stability

Test Requirement: §2.1055,§22.355,§24.235,§27.54

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit:  $\leq \pm 2.5$ ppm.

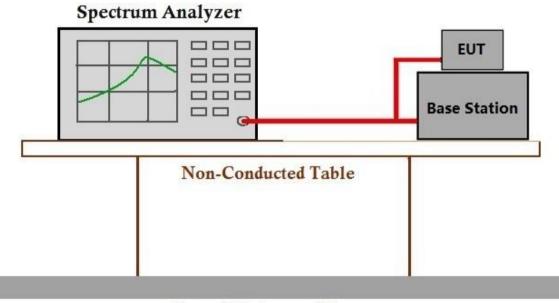
## 6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.

#### 6.7.2 Test Setup Diagram



### Ground Reference Plane

#### 6.7.3 Measurement Data

Please refer to Appendix\_LTE\_Frequency stability



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#### 6.8 Modulation Characteristics

Test Requirement: §2.1047

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Digital modulation

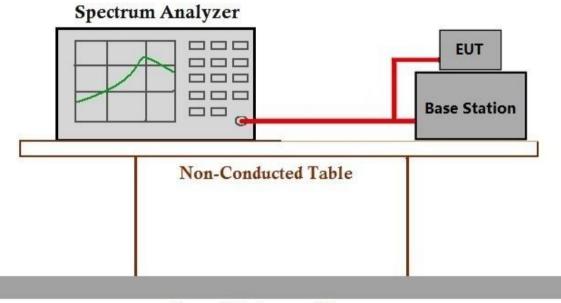
## 6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.

#### 6.8.2 Test Setup Diagram



### Ground Reference Plane

### 6.8.3 Measurement Data

Pass, it's a digital modulation device.



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# 7 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2206000231AT

# 8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for FYCR2206000231AT

- End of the Report -



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