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TEST REPORT

Application No.: FYCR2210000390AT **Applicant:** PAX Technology Limited

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

Manufacturer: PAX Computer Technology (Shenzhen) Co., Ltd.

Address of Manufacturer: 401 and 402, Building 3, Shenzhen Software Park, Nanshan District,

Shenzhen City, Guangdong Province, P.R.C

Equipment Under Test (EUT):

EUT Name: Integrated Smart Terminal

Model No.: E700Mini Trade Mark: PAX

FCC ID: V5PE700MINI 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: 2022-10-08

Date of Test: 2022-10-10 to 2022-10-23

Date of Issue: 2022-10-28

Test Result: Pass

Winkey Wang
Winkey Wang
EMC Technical Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2022-10-28		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)	 ≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) Refer to clause 6.4 for LTE Band13 ≤ -13dBm (LTE Band12,17) ≤ -13dBm (LTE Band4 	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: DC3.7V by Li-ion battery(1100mAh)

DC24V/2.7A from AD/DC adapter Adapter M/N: G065A1-240002700

Adapter input: AC100-240V, 50/60Hz, 1.5A max

Adapter output: DC24V/2.7A

Cable(s): Power adapter cable: 3m unshielded cable with one ferrite core about

8cm to the DC port

Sample Type: Mobile 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: 3.28dBi

4: 3.38dBi

Antenna Gain: 5: 2.84dBi

12: 1.34dBi 13: 1.45dBi 17: 1.34dBi

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	High (H) MHz 1909.3 1908.5 1907.5 1905.0 1902.5 1900.0
	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			
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz



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	1.4	1710.7	1732.5	1754.3		
LTE FDD	3	1711.5	1732.5	1752		
	5	1712.5	1732.5	1752.5		
Band 4	10	1715.0	1732.5	1750.0		
	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					
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	annel		
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 (MHz)	Low (L)	Middle (M)	High (H)		
	(1411 12)	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:	1015Pa		
	TL	-30°C	
Temperature:	TN	+20°C	
	TH	+50°C	
	VL	DC3.4 V	
Voltage:	VN	DC3.7 V	
	VH	DC4.2 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 ⁻⁸
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	Dedicted Courieus 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 Source	Chroma	62024P-80-60	SEM011-09	2022/07/12	2023/07/11
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/07/12	2023/07/11
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2022/07/12	2023/07/11
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA- 50-1	SEM021-09	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	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	Agilent	N9038A	SEM004-05	2022/07/12	2023/07/11	
Pre-amplifier	HP	8447D	SEM005-02	2022/07/12	2023/07/11	
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/07/12	2023/07/11	
Low Noise Amplifier	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2022/07/12	2023/07/11	
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022/08/07	2025/08/06	
Signal Generator(9kHz- 40GHz)	N5173B	MY53270267	Agilent	2022/07/12	2023/07/11	
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	
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	
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/07/12	2023/07/11	
Low Noise Amplifier	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2022/07/12	2023/07/11	



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Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/07/12	2023/07/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	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 equipment									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11				
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11				
Barometer	DUMAI	DYM3	SEM002-24	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 v03r01

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)

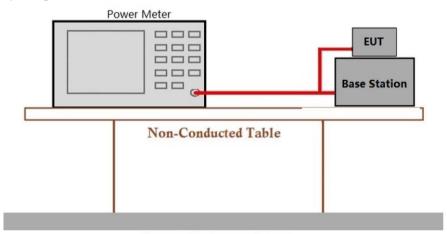
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 52 % RH Atmospheric Pressure: 1015 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 v03r01

Limit: ≤13dB

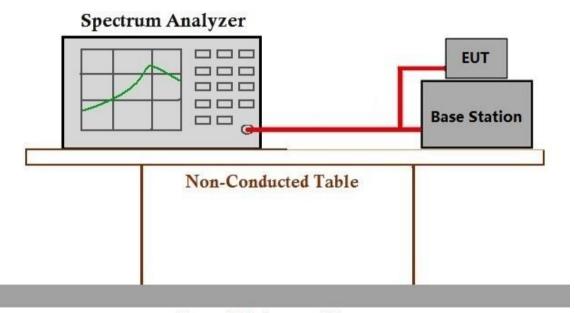
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 52 % RH Atmospheric Pressure: 1015 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 v03r01

Limit: OBW: No limit

EBW: No limit

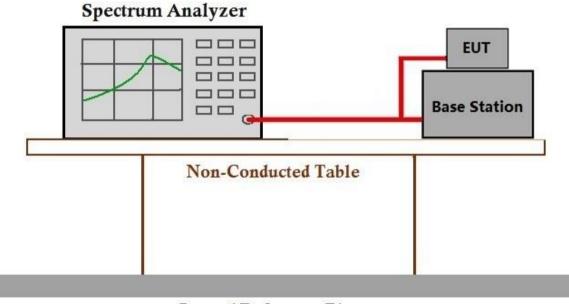
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 52 % RH Atmospheric Pressure: 1015 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 v03r01 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

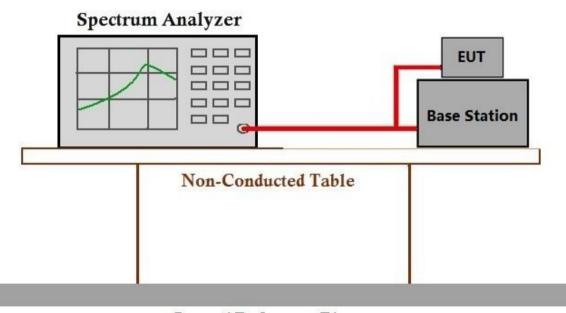
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 52 % RH Atmospheric Pressure: 1015 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 v03r01 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

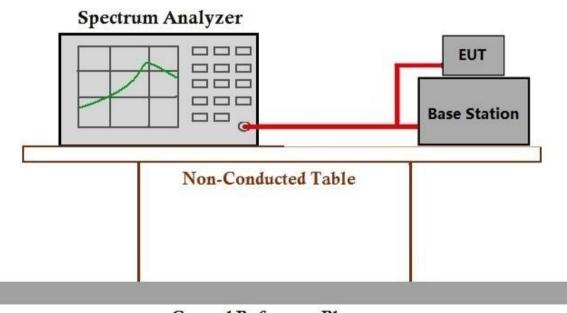
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 52 % RH Atmospheric Pressure: 1015 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 v03r01 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: 1015 mbar

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



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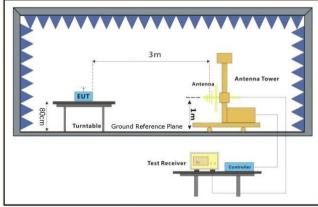


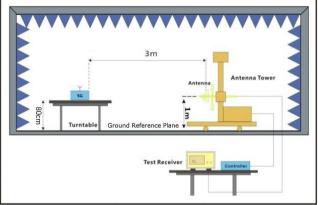
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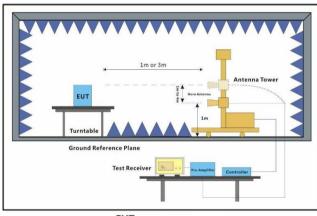
6.6.2 Test Setup Diagram

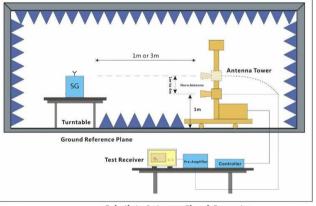




EUT

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	TE Band2-Lo	w channel, Mo	dulation: (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	-28.19	-13	-15.19	-30.41	6.99	9.21	Horizontal	Pass
5553	-33.34	-13	-20.34	-35.66	8.27	10.59	Horizontal	Pass
7404	-38.92	-13	-25.92	-42.46	8.19	11.73	Horizontal	Pass
3702	-33.11	-13	-20.11	-35.33	6.99	9.21	Vertical	Pass
5553	-27.66	-13	-14.66	-29.98	8.27	10.59	Vertical	Pass
7404	-37.23	-13	-24.23	-40.77	8.19	11.73	Vertical	Pass

	FDD LT	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	-32.99	-13	-19.99	-35.21	6.99	9.21	Horizontal	Pass
5613	-31.32	-13	-18.32	-33.64	8.27	10.59	Horizontal	Pass
7484	-41.8	-13	-28.8	-45.34	8.19	11.73	Horizontal	Pass
3742	-31.94	-13	-18.94	-34.16	6.99	9.21	Vertical	Pass
5613	-28.28	-13	-15.28	-30.6	8.27	10.59	Vertical	Pass
7484	-39.14	-13	-26.14	-42.68	8.19	11.73	Vertical	Pass

	FDD L	TE Band2-Hig	gh channel, Mo	odulation: (QPSK, Band	dwidth: 20Ml	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	-33.95	-13	-20.95	-36.17	6.99	9.21	Horizontal	Pass
5673	-32.13	-13	-19.13	-34.45	8.27	10.59	Horizontal	Pass
7564	-41.82	-13	-28.82	-45.65	8.43	12.26	Horizontal	Pass
3782	-31.92	-13	-18.92	-34.14	6.99	9.21	Vertical	Pass
5673	-28.1	-13	-15.1	-30.42	8.27	10.59	Vertical	Pass
7564	-37.28	-13	-24.28	-41.11	8.43	12.26	Vertical	Pass



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	FDD I	TE Band4-Lo	w channel, Mo	dulation: (QPSK, Band	width: 20MH	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	-43.54	-13	-30.54	-46.12	5.72	8.3	Horizontal	Pass
5133	-28.05	-13	-15.05	-30.05	8.3	10.3	Horizontal	Pass
6844	-41.34	-13	-28.34	-44.89	7.7	11.25	Horizontal	Pass
3422	-38.49	-13	-25.49	-41.07	5.72	8.3	Vertical	Pass
5133	-28.91	-13	-15.91	-30.91	8.3	10.3	Vertical	Pass
6844	-37.33	-13	-24.33	-40.88	7.7	11.25	Vertical	Pass

	FDD L1	ΓΕ Band4-Mido	dle channel, M	lodulation:	QPSK, Ba	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
3447	-39.44	-13	-26.44	-42.02	5.72	8.3	Horizontal	Pass
5170.5	-31.03	-13	-18.03	-33.03	8.3	10.3	Horizontal	Pass
6894	-38.99	-13	-25.99	-42.54	7.7	11.25	Horizontal	Pass
3447	-34.19	-13	-21.19	-36.77	5.72	8.3	Vertical	Pass
5170.5	-28.83	-13	-15.83	-30.83	8.3	10.3	Vertical	Pass
6894	-43.98	-13	-30.98	-47.53	7.7	11.25	Vertical	Pass

	FDD L	TE Band4-Hig	gh channel, Mo	odulation: (QPSK, Band	dwidth: 20Ml	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	-40.72	-13	-27.72	-43.3	5.72	8.3	Horizontal	Pass
5208	-32.71	-13	-19.71	-34.71	8.3	10.3	Horizontal	Pass
6944	-41.15	-13	-28.15	-44.7	7.7	11.25	Horizontal	Pass
3472	-38.73	-13	-25.73	-41.31	5.72	8.3	Vertical	Pass
5208	-31.22	-13	-18.22	-33.22	8.3	10.3	Vertical	Pass
6944	-40.58	-13	-27.58	-44.13	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	-40.93	-13	-27.93	-44.59	3.77	7.43	Horizontal	Pass
2473.5	-32.04	-13	-19.04	-34.37	4.75	7.08	Horizontal	Pass
3298	-45.39	-13	-32.39	-47.97	5.72	8.3	Horizontal	Pass
1649	-50.38	-13	-37.38	-54.04	3.77	7.43	Vertical	Pass
2473.5	-31.73	-13	-18.73	-34.06	4.75	7.08	Vertical	Pass
3298	-43.5	-13	-30.5	-46.08	5.72	8.3	Vertical	Pass

	FDD L1	ΓΕ Band5-Midd	dle channel, M	lodulation:	QPSK, Ba	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	-41.3	-13	-28.3	-44.96	3.77	7.43	Horizontal	Pass
2496	-33.67	-13	-20.67	-36	4.75	7.08	Horizontal	Pass
3328	-45.19	-13	-32.19	-47.77	5.72	8.3	Horizontal	Pass
1664	-47.26	-13	-34.26	-50.92	3.77	7.43	Vertical	Pass
2496	-33.37	-13	-20.37	-35.7	4.75	7.08	Vertical	Pass
3328	-44.05	-13	-31.05	-46.63	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	-47.99	-13	-34.99	-51.65	3.77	7.43	Horizontal	Pass
2518.5	-32.38	-13	-19.38	-34.85	5.13	7.6	Horizontal	Pass
3358	-44.88	-13	-31.88	-47.46	5.72	8.3	Horizontal	Pass
1679	-46.34	-13	-33.34	-50	3.77	7.43	Vertical	Pass
2518.5	-30.02	-13	-17.02	-32.49	5.13	7.6	Vertical	Pass
3358	-44.2	-13	-31.2	-46.78	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	-52.73	-13	-39.73	-55.26	2.64	5.17	Horizontal	Pass
2098.5	-51.04	-13	-38.04	-53.37	4.75	7.08	Horizontal	Pass
2798	-48.35	-13	-35.35	-50.82	5.13	7.6	Horizontal	Pass
1399	-52.25	-13	-39.25	-54.78	2.64	5.17	Vertical	Pass
2098.5	-49.32	-13	-36.32	-51.65	4.75	7.08	Vertical	Pass
2798	-47.14	-13	-34.14	-49.61	5.13	7.6	Vertical	Pass

	FDD LT	E Band12-Mid	dle channel, N	Modulation	: QPSK, Ba	ındwidth: 10N	/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
1406	-52.83	-13	-39.83	-55.36	2.64	5.17	Horizontal	Pass
2109	-51.75	-13	-38.75	-54.08	4.75	7.08	Horizontal	Pass
2812	-50.25	-13	-37.25	-52.72	5.13	7.6	Horizontal	Pass
1406	-50.48	-13	-37.48	-53.01	2.64	5.17	Vertical	Pass
2109	-50.74	-13	-37.74	-53.07	4.75	7.08	Vertical	Pass
2812	-48.47	-13	-35.47	-50.94	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	-52.86	-13	-39.86	-55.39	2.64	5.17	Horizontal	Pass			
2121.5	-51.26	-13	-38.26	-53.59	4.75	7.08	Horizontal	Pass			
2826	-51.01	-13	-38.01	-53.48	5.13	7.6	Horizontal	Pass			
1413	-53.8	-13	-40.8	-56.33	2.64	5.17	Vertical	Pass			
2121.5	-51.84	-13	-38.84	-54.17	4.75	7.08	Vertical	Pass			
2826	-46.99	-13	-33.99	-49.46	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	-53.07	-13	-40.07	-56.73	3.77	7.43	Horizontal	Pass			
2332.5	-46.86	-13	-33.86	-49.19	4.75	7.08	Horizontal	Pass			
3110	-48.54	-13	-35.54	-51.12	5.72	8.3	Horizontal	Pass			
1555	-52.74	-13	-39.74	-56.4	3.77	7.43	Vertical	Pass			
2332.5	-52.13	-13	-39.13	-54.46	4.75	7.08	Vertical	Pass			
3110	-48.08	-13	-35.08	-50.66	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	-51.51	-13	-38.51	-54.04	2.64	5.17	Horizontal	Pass			
2113.5	-52.51	-13	-39.51	-54.84	4.75	7.08	Horizontal	Pass			
2818	-51.88	-13	-38.88	-54.35	5.13	7.6	Horizontal	Pass			
1409	-46.59	-13	-33.59	-49.12	2.64	5.17	Vertical	Pass			
2113.5	-50.7	-13	-37.7	-53.03	4.75	7.08	Vertical	Pass			
2818	-51.38	-13	-38.38	-53.85	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	-50.9	-13	-37.9	-53.43	2.64	5.17	Horizontal	Pass			
2116.5	-53.16	-13	-40.16	-55.49	4.75	7.08	Horizontal	Pass			
2822	-50.87	-13	-37.87	-53.34	5.13	7.6	Horizontal	Pass			
1411	-46.45	-13	-33.45	-48.98	2.64	5.17	Vertical	Pass			
2116.5	-50.46	-13	-37.46	-52.79	4.75	7.08	Vertical	Pass			
2822	-51.81	-13	-38.81	-54.28	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	-51.1	-13	-38.1	-53.63	2.64	5.17	Horizontal	Pass			
2121.5	-51.03	-13	-38.03	-53.36	4.75	7.08	Horizontal	Pass			
2826	-51.15	-13	-38.15	-53.62	5.13	7.6	Horizontal	Pass			
1413	-45.67	-13	-32.67	-48.2	2.64	5.17	Vertical	Pass			
2121.5	-51.69	-13	-38.69	-54.02	4.75	7.08	Vertical	Pass			
2826	-50.61	-13	-37.61	-53.08	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 v03r01

Limit: $\leq \pm 2.5$ ppm.

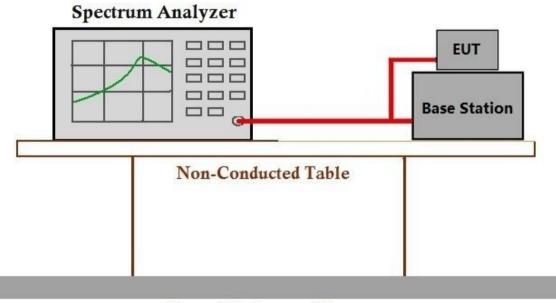
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 52 % RH Atmospheric Pressure: 1015 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 v03r01

Limit: Digital modulation

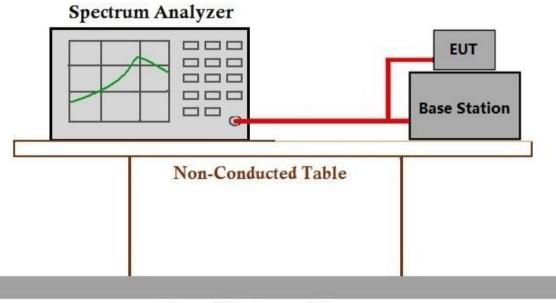
6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 52 % RH Atmospheric Pressure: 1015 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 FYCR2210000390AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for FYCR2210000390AT

- End of the Report -



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