RF Test Report
(LTE)

Report No.:	JYTSZ-R12-2600345
Applicant:	SWAGTEK
Address of Applicant:	12415 SW 136th Avenue STE6, Miami, FLORIDA 33186, USA
Equipment Under Test (EUT)	
Product Name:	4G TABLET
Model No.:	L-PAD, UT10, LEPAD LITE
Trade Mark:	LOGIC, UNONU, iSWAG
FCC ID:	O55101426
Applicable Standards:	FCC CFR Title 47 Part 2, 22H, 24E, 27L & H& M
Date of Sample Receipt:	23 Apr., 2026
Date of Test:	24 Apr., to 03 Jun., 2026
Date of Report Issued:	04 Jun., 2026
Test Result:	PASS

Tested by:	Robin Gu ***Project Engineer***	***Date:***	*04 Jun., 2026*
Reviewed by:	Peter Zhang ***Senior Engineer***	***Date:***	*04 Jun., 2026*
Approved by:	James Wei ***Manager***	***Date:***	*04 Jun., 2026*

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

1 Version

Version No.	Date	Description
00	*04 Jun., 2026*	*Original*

2 Contents

Page

Cover Page **1**
1 Version **2**
2 Contents **3**
3 General Information **4**
3.1 Client Information 4
3.2 General Description of E.U.T. 4
3.3 Disclaimer 4
3.4 Test Mode and Environment 4
3.5 Description of Test Auxiliary Equipment 5
3.6 Measurement Uncertainty 5
3.7 Additions to, Deviations, or Exclusions from the Method 5
3.8 Laboratory Facility 6
3.9 Laboratory Location 6
3.10 Test Instruments List 6
4 Measurement Setup and Procedure **8**
4.1 Test Channel 8
4.2 Test Setup 10
4.3 Test Procedure 11
5 Test Results **12**
5.1 Summary 12
5.1.1 Clause and Data Summary 12
5.1.2 Test Limit 13
5.2 Field Strength of Spurious Radiation Measurement 14

3 General Information

3.1 Client Information

Applicant:	SWAGTEK
Address:	12415 SW 136th Avenue STE6, Miami, FLORIDA 33186, USA
Manufacturer:	SWAGTEK
Address:	12415 SW 136th Avenue STE6, Miami, FLORIDA 33186, USA
Factory:	SWAGTEK
Address:	12415 SW 136th Avenue STE6, Miami, FLORIDA 33186, USA

3.2 General Description of E.U.T.

Product Name:	4G TABLET		
Model No.:	L-PAD, UT10, LEPAD LITE		
Operation Frequency Range:	LTE band 2:	Tx: 1850 MHz - 1910 MHz	Rx: 1930 MHz - 1990 MHz
	LTE band 4:	Tx: 1710 MHz - 1755 MHz	Rx: 2110 MHz - 2155 MHz
	LTE band 5:	Tx: 824 MHz - 849 MHz	Rx: 869 MHz - 894 MHz
	LTE band 7:	Tx: 2500 MHz - 2570 MHz	Rx: 2620 MHz - 2690 MHz
	LTE band 17:	Tx: 704 MHz - 716 MHz	Rx: 734 MHz - 746 MHz
	LTE band 38:	Tx: 2570 MHz - 2620 MHz	Rx: 2570 MHz - 2620 MHz
	LTE band 66:	Tx: 1710 MHz - 1780 MHz	Rx: 2110 MHz - 2200 MHz
Modulation Type:	☒QPSK	☒16QAM	☐64QAM(only supports downlink)
Antenna Type:	Internal Antenna		
Antenna Gain:	LTE band 2:	-1.03 dBi (declare by Applicant)	
	LTE band 4:	-0.01 dBi (declare by Applicant)	
	LTE band 5:	-0.5 dBi (declare by Applicant)	
	LTE band 7:	-0.81 dBi (declare by Applicant)	
	LTE band 17:	-4.88 dBi (declare by Applicant)	
	LTE band 38:	-0.05 dBi (declare by Applicant)	
	LTE band 66:	0.41 dBi (declare by Applicant)	
Power Supply:	Rechargeable Li-ion Battery DC3.8V, 5000mAh		
AC Adapter:	Model: JKX-052000A Input: AC100-240V, 50/60Hz, 0.5A Output: DC 5.0V, 2.0A		
Test Sample Condition:	The test samples were provided in good working order with no visible defects.		
Remark:	L-PAD, UT10, LEPAD LITE were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.		

3.3 Disclaimer

Disclaimer:
For the information or data provided by the client in this report, the relevant results or conclusions of this report are only made for these data or information. The testing laboratory is not responsible for the authenticity and accuracy of these data or information.

3.4 Test Mode and Environment

Test Mode:	
QPSK mode:	Keep the EUT communication with simulated station in QPSK mode
16QAM mode:	Keep the EUT communication with simulated station in 16QAM mode

64QAM mode:	Keep the EUT communication with simulated station in 64QAM mode
Remark: *The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report.*	
Operating Environment:	
Temperature:	Normal: 15℃ ~ 35℃, Extreme: -30℃ ~ +50℃
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.80 Vdc, Extreme: Low 3.23 Vdc, High 4.37 Vdc
Test Engineer:	Lao Lu(Conducted measurement) Reiy Ren (Radiated measurement)

3.5 Description of Test Auxiliary Equipment

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	Anritsu	MT8820C	6201026545

3.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radio Frequency	54.33Hz
RF Power, Conducted and PAPR	0.65 dB
Spurious emission, Conducted and Band edge	3.12 dB
Occupied bandwidth	6.5kHz
Temperature	±0.3 °C
Voltage	±0.1 %
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	2.1 dB
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	4.7 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	5.8 dB
Radiated Emission (30MHz ~ 1GHz) (3m FAR)	4.10 dB
Radiated Emission (1GHz ~ 18GHz) (3m FAR)	5.28 dB
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.18 dB
Note: *All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.*	

3.7 Additions to, Deviations, or Exclusions from the Method

No

3.8 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

3.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.
Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info-JYTee@lets.com, Website: http://jyt.lets.com

3.10 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	**Manufacturer**	**Model No.**	**Manage No.**	**Cal. Date (mm-dd-yy)**	**Cal. Due date (mm-dd-yy)**
3m SAC	ETS	9m*6m*6m	WXJ001-1	12-09-2025	12-08-2030
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	12-07-2025	12-06-2026
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	08-09-2025	08-08-2026
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-01-2024	06-30-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-07-2025	12-06-2026
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-04-2025	12-03-2026
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	12-04-2025	12-03-2026
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-05-2025	12-04-2026
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-04-2025	12-03-2026
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-04-2025	12-03-2026
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	08-08-2025	08-07-2026
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-14-2026	01-13-2027
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-14-2026	01-13-2027
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-14-2026	01-13-2027
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Radiated Emission(3m FAR):					
Test Equipment	**Manufacturer**	**Model No.**	**Manage No.**	**Cal. Date (mm-dd-yy)**	**Cal. Due date (mm-dd-yy)**
3m FAR	YUNYI	9m*6m*6m	WXJ097	06-15-2023	06-14-2028
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ097-2	04-13-2026	04-12-2027
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-01-2024	06-30-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	05-23-2025	05-22-2026
				04-30-2026	04-29-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-07-2025	12-06-2026
Pre-amplifier (30MHz ~ 1GHz)	YUNYI	PAM-310N	WXJ097-5	03-30-2026	03-29-2027
Pre-amplifier (1GHz ~ 18GHz)	YUNYI	PAM-118N	WXJ097-6	03-30-2026	03-29-2027
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-05-2025	12-04-2026
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	12-04-2025	12-03-2026
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-04-2025	12-03-2026
Spectrum Analyzer	KEYSIGHT	N9020B	WXJ081-1	04-13-2026	04-12-2027
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	07-28-2025	07-27-2026
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	07-28-2025	07-27-2026
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	07-28-2025	07-27-2026
High Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Low Band Reject Filter Group	Tonscend	JS0806-F	WXJ097-4	N/A	
Test Software	Tonscend	TS+	Version: 5.0.0		

Conducted Method:					
Test Equipment	**Manufacturer**	**Model No.**	**Manage No.**	**Cal. Date (mm-dd-yy)**	**Cal. Due date (mm-dd-yy)**
Spectrum Analyzer	Keysight	N9020A	WXJ094	08-08-2025	08-07-2026
Simulated Station	Rohde & Schwarz	CMW500	WXJ081	06-13-2025	06-12-2026
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	12-17-2024	12-16-2026
DC Power Supply	Keysight	E3642A	WXJ025-2	N/A	
RF Control Unit	Tonscend	JS0806-1	WXG010	N/A	
Band Reject Filter Group	Tonscend	JS0806-F	WXG010-1	N/A	
Test Software	Tonscend	TS+	Version: 2.6.9.0526		

4 Measurement Setup and Procedure

4.1 Test Channel

According to ANSI C63.26-2015 chapter 5.1.2.1 Table 2 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

LTE band 2

Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			**3 MHz**		
Lowest channel	18607	1850.7	Lowest channel	18915	1851.5
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19193	1909.3	Highest channel	19185	1908.5
5 MHz			**10 MHz**		
Lowest channel	18625	1852.5	Lowest channel	18650	1855.0
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19175	1907.5	Highest channel	19150	1905.0
15 MHz			**20 MHz**		
Lowest channel	18675	1857.5	Lowest channel	18700	1860.0
Middle channel	18900	1880.0	Middle channel	18900	1880.0
Highest channel	19125	1902.5	Highest channel	19100	1900.0

LTE band 4

Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			**3 MHz**		
Lowest channel	19957	1710.7	Lowest channel	19965	1711.5
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20393	1754.3	Highest channel	20385	1753.5
5 MHz			**10 MHz**		
Lowest channel	19975	1712.5	Lowest channel	20000	1715.0
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20375	1752.5	Highest channel	20350	1750.0
15 MHz			**20 MHz**		
Lowest channel	20025	1717.5	Lowest channel	20050	1720.0
Middle channel	20175	1732.5	Middle channel	20175	1732.5
Highest channel	20325	1747.5	Highest channel	20300	1745.0

LTE band 5

Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			**3 MHz**		
Lowest channel	20407	824.7	Lowest channel	20415	825.5
Middle channel	20525	836.5	Middle channel	20525	836.5
Highest channel	20643	848.3	Highest channel	20635	847.5
5 MHz			**10 MHz**		
Lowest channel	20425	826.5	Lowest channel	20450	829.0
Middle channel	20525	836.5	Middle channel	20525	836.5
Highest channel	20625	846.5	Highest channel	20600	844.0

LTE band 7					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
5 MHz			**10 MHz**		
Lowest channel	20775	2502.5	Lowest channel	20800	2505.0
Middle channel	21100	2535.0	Middle channel	21100	2535.0
Highest channel	21425	2567.5	Highest channel	21400	2565.0
15 MHz			**20 MHz**		
Lowest channel	20825	2507.5	Lowest channel	20850	2510.0
Middle channel	21100	2535.0	Middle channel	21100	2535.0
Highest channel	21375	2562.5	Highest channel	21350	2560.0

LTE band 17					
5 MHz			**10 MHz**		
Lowest channel	23755	706.50	Lowest channel	23780	709.00
Middle channel	23790	710.00	Middle channel	23790	710.00
Highest channel	23825	713.50	Highest channel	23800	711.00

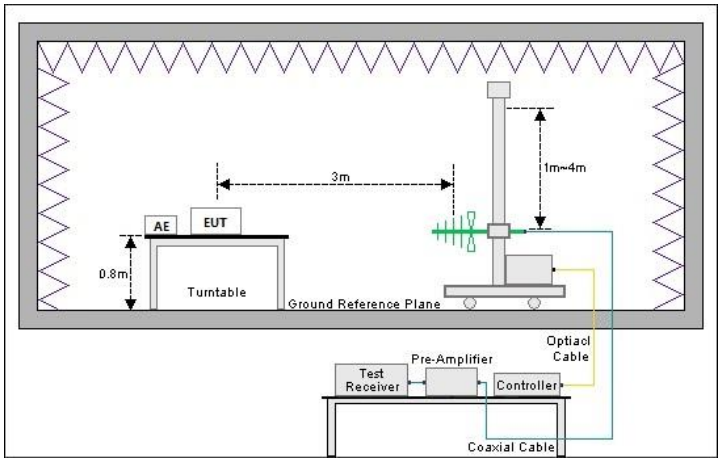
LTE band 38					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
5 MHz			**10 MHz**		
Lowest channel	37775	2572.5	Lowest channel	37800	2575.0
Middle channel	38000	2595.0	Middle channel	38000	2595.0
Highest channel	38225	2617.5	Highest channel	38200	2615.0
15 MHz			**20 MHz**		
Lowest channel	37825	2577.5	Lowest channel	37850	2580.0
Middle channel	38000	2595.0	Middle channel	38000	2595.0
Highest channel	38175	2612.5	Highest channel	38150	2610.0

LTE band 66					
Channels		Frequency (MHz)	Channels		Frequency (MHz)
1.4 MHz			**3 MHz**		
Lowest channel	131979	1710.7	Lowest channel	131987	1711.5
Middle channel	132322	1745.0	Middle channel	132322	1745.0
Highest channel	132665	1779.3	Highest channel	132657	1778.5
5 MHz			**10 MHz**		
Lowest channel	131997	1712.5	Lowest channel	132022	1715.0
Middle channel	132322	1745.5	Middle channel	132322	1745.0
Highest channel	132647	1777.5	Highest channel	132622	1775.0
15 MHz			**20 MHz**		
Lowest channel	132047	1717.5	Lowest channel	132072	1720.0
Middle channel	132322	1745.0	Middle channel	132322	1745.0
Highest channel	132597	1772.5	Highest channel	132572	1770.0

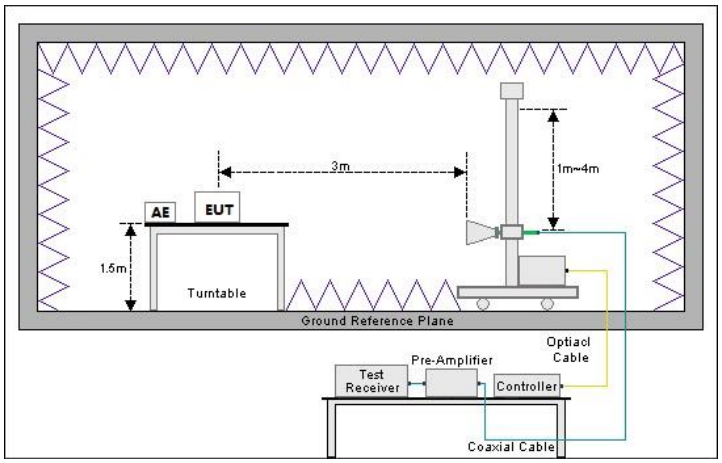
4.2 Test Setup

1) Radiated emission measurement:

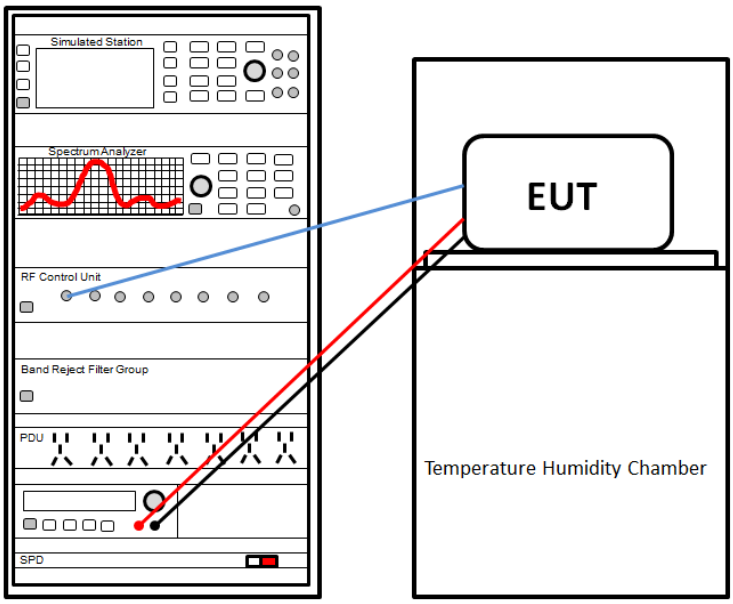
Below 1GHz (3m SAC)



Above 1GHz (3m FAR)



2) Conducted test method



4.3 Test Procedure

Test method	Test step
Radiated emission	**For below 1GHz:** 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested，and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. **For above 1GHz:** 1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested，and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	1. The LTE antenna port of EUT was connected to the test port of the test system through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

Test items	Standard clause	Test method	Test data	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	See SAR Report	See SAR Report	Pass
RF Output Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (c)(10) Part 27.50 (d)(4) Part 27.50 (h)(2)	ANSI C63.26 Clause 5.2.4	Appendix A– LTE	Pass
Peak-to-Average Power Ratio	Part 24.232 (d) Part 27.50 (d)(5)	ANSI C63.26 Clause 5.2.3.4	Appendix A– LTE	Pass
Modulation Characteristics	Part 2.1047	ANSI C63.26 Clause 5.3.1	Appendix A– LTE	Pass
26dB Emission Bandwidth 99% Occupied Bandwidth	Part 2.1049	ANSI C63.26 Clause 5.4.3	Appendix A– LTE	Pass
Out of Band Emission at Antenna Terminals	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53 (m)(4)	ANSI C63.26 Clause 5.7.3 and Clause 5.7.4	Appendix A– LTE	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53 (m)(4)	ANSI C63.26 Clause 5.5.2.4 and Clause 5.5.3.2	See Section 5.2	Pass
Frequency Stability vs. Temperature	Part 2.1055 (a)(1)(b) Part 22.355 Part 24.235 Part 27.54	ANSI C63.26 Clause 5.6.4	Appendix A– LTE	Pass
Frequency Stability vs. Voltage	Part 2.1055 (d)(2) Part 22.355 Part 24.235 Part 27.54	ANSI C63.26 Clause 5.6.5	Appendix A– LTE	Pass

Remark:

1. *Pass: The EUT complies with the essential requirements in the standard.*
2. *The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (Fundamental Frequency below 1GHz)/1.0dB (Fundamental Frequency above 1GHz) (provided by the customer).*

Test Method:	*ANSI/TIA-603-E-2016* *ANSI C63.26-2015* *KDB 971168 D01 Power Meas License Digital Systems v03r01* *KDB 971168 D02 Misc Rev Approv License Devices v02r01* *KDB 412172 D01 Determining ERP and EIRP v01r01*

5.1.2 Test Limit

<table>
<tr><th>Test items</th><th>Limit</th></tr>
<tr><td>RF Output Power</td><td>LTE band 2/7/38: 2W EIRP
LTE band 4/66: 1W EIRP
LTE band 5: 7W ERP
LTE band 17: 3W ERP</td></tr>
<tr><td>Peak-to-Average Power Ratio</td><td>LTE band 2/4/5/7/17/38/66:The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB
Other bands: N/A report only</td></tr>
<tr><td>Modulation Characteristics</td><td>N/A</td></tr>
<tr><td>26dB Emission Bandwidth
99% Occupied Bandwidth</td><td>N/A</td></tr>
<tr><td>Out of Band Emission at Antenna Terminals

Field Strength of Spurious Radiation</td><td>LTE band 2, 4, 5, 17, 66:
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.

LTE band 7, 38:
For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.</td></tr>
<tr><td>Frequency Stability vs. Temperature

Frequency Stability vs. Voltage</td><td>LTE band 2:
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

LTE band 4, 7, 17, 38, 66:
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

LTE band 5:
Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.
TABLE C-1—FREQUENCY TOLERANCE FOR TRANSMITTERS IN THE PUBLIC MOBILE SERVICES
<table>
<tr><th>Frequency range (MHz)</th><th>Base, fixed (ppm)</th><th>Mobile >3 watts (ppm)</th><th>Mobile ≤3 watts (ppm)</th></tr>
<tr><td>25 to 50</td><td>20.0</td><td>20.0</td><td>50.0</td></tr>
<tr><td>50 to 450</td><td>5.0</td><td>5.0</td><td>50.0</td></tr>
<tr><td>450 to 512</td><td>2.5</td><td>5.0</td><td>5.0</td></tr>
<tr><td>821 to 896</td><td>1.5</td><td>2.5</td><td>2.5</td></tr>
<tr><td>928 to 929</td><td>5.0</td><td>n/a</td><td>n/a</td></tr>
<tr><td>929 to 960</td><td>1.5</td><td>n/a</td><td>n/a</td></tr>
<tr><td>2110 to 2220</td><td>10.0</td><td>n/a</td><td>n/a</td></tr>
</table></td></tr>
</table>

5.2 Field Strength of Spurious Radiation Measurement

Note: All bandwidths, modulation types and RB configurations were pretested, and it was found that minimum bandwidths, QPSK modulation and 1RB0 were the worst modes, and only the worst modes were reflected in the report.

LTE band 2 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.40	-31.24	-0.36	-31.60	-13.00	18.60	Vertical
5552.10	-36.73	4.16	-32.57	-13.00	19.57	Vertical
7402.00	-43.76	6.10	-37.66	-13.00	24.66	Vertical
3701.40	-31.64	-0.17	-31.81	-13.00	18.81	Horizontal
5552.10	-38.97	4.07	-34.90	-13.00	21.90	Horizontal
7402.00	-38.8	5.78	-33.02	-13.00	20.02	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-31.72	-1.01	-32.73	-13.00	19.73	Vertical
5640.00	-36.84	3.96	-32.88	-13.00	19.88	Vertical
7520.00	-43.56	5.55	-38.01	-13.00	25.01	Vertical
3760.00	-31.16	-0.56	-31.72	-13.00	18.72	Horizontal
5640.00	-38.71	4.14	-34.57	-13.00	21.57	Horizontal
7520.00	-38.67	5.56	-33.11	-13.00	20.11	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3816.60	-31.42	-0.59	-32.01	-13.00	19.01	Vertical
5724.90	-36.89	3.42	-33.47	-13.00	20.47	Vertical
7633.20	-44.01	6.40	-37.61	-13.00	24.61	Vertical
3816.60	-31.34	-0.10	-31.44	-13.00	18.44	Horizontal
5724.90	-38.66	3.80	-34.86	-13.00	21.86	Horizontal
7633.20	-38.51	6.24	-32.27	-13.00	19.27	Horizontal

Remark:

1. *The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.*
2. *Test Frequency up to 20GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

LTE band 4 – 1.4 MHz bandwidth

Lowest channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.40	-37.56	-2.15	-39.71	-13.00	26.71	Vertical
5132.10	-47.33	3.80	-43.53	-13.00	30.53	Vertical
6842.80	-47.9	5.86	-42.04	-13.00	29.04	Vertical
3421.40	-36.41	-2.22	-38.63	-13.00	25.63	Horizontal
5132.10	-39.95	3.86	-36.09	-13.00	23.09	Horizontal
6842.80	-46.29	6.07	-40.22	-13.00	27.22	Horizontal

Middle channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3465.00	-37.76	-2.54	-40.30	-13.00	27.30	Vertical
5197.50	-46.99	3.25	-43.74	-13.00	30.74	Vertical
6930.00	-47.75	5.20	-42.55	-13.00	29.55	Vertical
3465.00	-36.74	-2.54	-39.28	-13.00	26.28	Horizontal
5197.50	-39.71	3.17	-36.54	-13.00	23.54	Horizontal
6930.00	-46.34	5.17	-41.17	-13.00	28.17	Horizontal

Highest channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3508.60	-37.42	-3.13	-40.55	-13.00	27.55	Vertical
5262.90	-47.34	3.11	-44.23	-13.00	31.23	Vertical
7017.20	-47.51	5.74	-41.77	-13.00	28.77	Vertical
3508.60	-37.12	-2.96	-40.08	-13.00	27.08	Horizontal
5262.90	-39.7	3.46	-36.24	-13.00	23.24	Horizontal
7017.20	-46.04	5.80	-40.24	-13.00	27.24	Horizontal

Remark:

1. *The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.*
2. *Test Frequency up to 20GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

LTE band 5 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.40	-27.55	-11.51	-39.06	-13.00	26.06	Vertical
2474.10	-37.24	-8.67	-45.91	-13.00	32.91	Vertical
3298.80	-54.65	-3.89	-58.54	-13.00	45.54	Vertical
1649.40	-24.91	-10.85	-35.76	-13.00	22.76	Horizontal
2474.10	-40.4	-9.13	-49.53	-13.00	36.53	Horizontal
3298.80	-57.21	-3.96	-61.17	-13.00	48.17	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.30	-27.90	-10.70	-38.60	-13.00	25.60	Vertical
2509.50	-36.89	-8.66	-45.55	-13.00	32.55	Vertical
3346.00	-54.92	-3.33	-58.25	-13.00	45.25	Vertical
1673.30	-24.97	-10.28	-35.25	-13.00	22.25	Horizontal
2509.50	-39.99	-8.73	-48.72	-13.00	35.72	Horizontal
3346.00	-56.99	-3.42	-60.41	-13.00	47.41	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1696.60	-27.58	-9.90	-37.48	-13.00	24.48	Vertical
2544.90	-37.05	-8.45	-45.50	-13.00	32.50	Vertical
3393.20	-54.96	-2.59	-57.55	-13.00	44.55	Vertical
1696.60	-24.76	-9.70	-34.46	-13.00	21.46	Horizontal
2544.90	-40.12	-8.21	-48.33	-13.00	35.33	Horizontal
3393.20	-56.74	-2.65	-59.39	-13.00	46.39	Horizontal

Remark:

1. *The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.*
2. *Test Frequency up to 10GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

LTE band 7 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.00	-42.13	3.69	-38.44	-25.00	13.44	Vertical
7507.50	-52.47	5.56	-46.91	-25.00	21.91	Vertical
10010.00	-58.33	10.09	-48.24	-25.00	23.24	Vertical
5005.00	-39.87	4.02	-35.85	-25.00	10.85	Horizontal
7507.50	-46.9	5.56	-41.34	-25.00	16.34	Horizontal
10010.00	-53	9.47	-43.53	-25.00	18.53	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-41.99	4.23	-37.76	-25.00	12.76	Vertical
7605.00	-52.26	6.06	-46.20	-25.00	21.20	Vertical
10140.00	-58.17	10.48	-47.69	-25.00	22.69	Vertical
5070.00	-39.63	3.51	-36.12	-25.00	11.12	Horizontal
7605.00	-47.16	5.95	-41.21	-25.00	16.21	Horizontal
10140.00	-53.14	10.21	-42.93	-25.00	17.93	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.00	-42.46	3.78	-38.68	-25.00	13.68	Vertical
7702.50	-52.58	6.22	-46.36	-25.00	21.36	Vertical
10270.00	-58.11	11.48	-46.63	-25.00	21.63	Vertical
5135.00	-39.23	3.83	-35.40	-25.00	10.40	Horizontal
7702.50	-47.05	5.97	-41.08	-25.00	16.08	Horizontal
10270.00	-53.1	11.00	-42.10	-25.00	17.10	Horizontal

Remark:

1. *The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.*
2. *Test Frequency up to 27GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

LTE band 17 – 5 MHz bandwidth

Lowest channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1413.00	-33.83	-12.29	-46.12	-13.00	33.12	Vertical
2119.50	-47.36	-9.97	-57.33	-13.00	44.33	Vertical
2826.00	-56.88	-7.59	-64.47	-13.00	51.47	Vertical
1413.00	-36.69	-11.98	-48.67	-13.00	35.67	Horizontal
2119.50	-45.77	-9.21	-54.98	-13.00	41.98	Horizontal
2826.00	-56.26	-7.02	-63.28	-13.00	50.28	Horizontal

Middle channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1420.00	-34.03	-12.41	-46.44	-13.00	33.44	Vertical
2130.00	-47.51	-9.81	-57.32	-13.00	44.32	Vertical
2840.00	-56.62	-6.98	-63.60	-13.00	50.60	Vertical
1420.00	-37.09	-12.07	-49.16	-13.00	36.16	Horizontal
2130.00	-45.46	-9.20	-54.66	-13.00	41.66	Horizontal
2840.00	-56.11	-6.59	-62.70	-13.00	49.70	Horizontal

Highest channel

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.00	-33.96	-12.46	-46.42	-13.00	33.42	Vertical
2140.50	-47.48	-9.69	-57.17	-13.00	44.17	Vertical
2854.00	-57.10	-7.47	-64.57	-13.00	51.57	Vertical
1427.00	-37.07	-12.16	-49.23	-13.00	36.23	Horizontal
2140.50	-45.54	-9.24	-54.78	-13.00	41.78	Horizontal
2854.00	-56.25	-7.27	-63.52	-13.00	50.52	Horizontal

Remark:

1. *The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.*
2. *Test Frequency up to 10GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

LTE band 38 – 5 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5145.00	-46.02	3.70	-42.32	-25.00	17.32	Vertical
7717.50	-58.48	6.36	-52.12	-25.00	27.12	Vertical
10290.00	-62.35	11.95	-50.40	-25.00	25.40	Vertical
5145.00	-43.17	3.73	-39.44	-25.00	14.44	Horizontal
7717.50	-54.57	6.10	-48.47	-25.00	23.47	Horizontal
10290.00	-59.64	11.52	-48.12	-25.00	23.12	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5190.00	-45.70	3.33	-42.37	-25.00	17.37	Vertical
7785.00	-58.05	8.39	-49.66	-25.00	24.66	Vertical
10380.00	-62.02	10.75	-51.27	-25.00	26.27	Vertical
5190.00	-42.93	3.26	-39.67	-25.00	14.67	Horizontal
7785.00	-54.21	8.24	-45.97	-25.00	20.97	Horizontal
10380.00	-59.68	10.21	-49.47	-25.00	24.47	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
5235.00	-45.54	3.17	-42.37	-25.00	17.37	Vertical
7852.50	-58.02	8.52	-49.50	-25.00	24.50	Vertical
10470.00	-62.44	11.86	-50.58	-25.00	25.58	Vertical
5235.00	-42.56	3.32	-39.24	-25.00	14.24	Horizontal
7852.50	-54.14	8.28	-45.86	-25.00	20.86	Horizontal
10470.00	-59.43	11.27	-48.16	-25.00	23.16	Horizontal

Remark:

1. *The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.*
2. *Test Frequency up to 10GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

LTE band 66 – 1.4 MHz bandwidth						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.40	-34.6	-2.15	-36.75	-13.00	23.75	Vertical
5132.10	-43.16	3.80	-39.36	-13.00	26.36	Vertical
6842.80	-48.32	5.86	-42.46	-13.00	29.46	Vertical
3421.40	-33.69	-2.22	-35.91	-13.00	22.91	Horizontal
5132.10	-38.94	3.86	-35.08	-13.00	22.08	Horizontal
6842.80	-42.2	6.07	-36.13	-13.00	23.13	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.00	-34.42	-3.02	-37.44	-13.00	24.44	Vertical
5235.00	-43.06	3.17	-39.89	-13.00	26.89	Vertical
6980.00	-47.93	5.49	-42.44	-13.00	29.44	Vertical
3490.00	-33.93	-2.92	-36.85	-13.00	23.85	Horizontal
5235.00	-38.96	3.32	-35.64	-13.00	22.64	Horizontal
6980.00	-41.81	5.46	-36.35	-13.00	23.35	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.60	-34.84	-2.25	-37.09	-13.00	24.09	Vertical
5337.90	-42.68	4.23	-38.45	-13.00	25.45	Vertical
7117.20	-47.98	5.53	-42.45	-13.00	29.45	Vertical
3558.60	-34.23	-2.22	-36.45	-13.00	23.45	Horizontal
5337.90	-39.3	4.19	-35.11	-13.00	22.11	Horizontal
7117.20	-41.85	5.32	-36.53	-13.00	23.53	Horizontal

Remark:

3. *The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.*
4. *Test Frequency up to 10GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

------End of report------