

FCC RF Test Report

(WCDMA)

Report No.: JYTSZ-R12-2500770

Applicant: SWAGTEK

Address of Applicant: 10205 NW 19th Street, STE 101, Miami, FL33172, USA

Equipment Under Test (EUT)

Product Name: 4G Tablet

Model No.: T10L PLUS, Grad, Slate

Trade Mark: LOGIC, ISWAG, UNONU

FCC ID: O551001923

Applicable Standards: FCC CFR Title 47 Part 2, 22H, 24E, 27L

Date of Sample Receipt: 21 May, 2025

Date of Test: 22 May, to 25 Jun., 2025

Date of Report Issued: 25 Jun., 2025

Test Result: PASS

Tested by:

Victor Zhang
Project Engineer

Date:

25 Jun., 2025

Reviewed by:

Lu Ping
Senior Engineer

Date:

25 Jun., 2025

Approved by:

Janet Wei
Manager

Date:

25 Jun., 2025

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.

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1 Version

Version No.	Date	Description
00	25 Jun., 2025	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 Test Mode and Environment	5
3.4 Description of Test Auxiliary Equipment	5
3.5 Measurement Uncertainty	5
3.6 Additions to, Deviations, or Exclusions from the Method	5
3.7 Laboratory Facility	6
3.8 Laboratory Location.....	6
3.9 Test Instruments List	7
4 Measurement Setup and Procedure	9
4.1 Test Channel	9
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.....	14
5.2 Field Strength of Spurious Radiation Measurement	15

3 General Information

3.1 Client Information

Applicant:	SWAGTEK
Address:	10205 NW 19th Street,STE 101,Miami, FL33172.USA
Manufacturer/Factory:	SWAGTEK
Address:	10205 NW 19th Street,STE 101,Miami, FL33172.USA

3.2 General Description of E.U.T.

Product Name:	4G Tablet		
Model No.:	T10L PLUS, Grad, Slate		
Operation Frequency Range:	WCDMA band II:	1852.4 MHz - 1907.6 MHz	
	WCDMA band V:	826.4 MHz - 846.6 MHz	
Modulation Type:	☒ RMC(QPSK)	☒ HSUPA(QPSK)	☒ HSDPA(QPSK,16QAM)
Antenna Type:	Internal Antenna		
Antenna Gain:	WCDMA band II:	0.85 dBi (declare by Applicant)	
	WCDMA band V:	-4.63 dBi (declare by Applicant)	
Power Supply:	Rechargeable Li-ion Battery DC3.8V, 5000mAh		
AC Adapter:	Model: YD2.0AN-003 Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 2.0A		
Test Sample Condition:	The test samples were provided in good working order with no visible defects.		
Remark:	All the model are the same circuit and RF module, except the model names.		

3.3 Test Mode and Environment

Test Mode:	
RMC mode:	Keep the EUT communication with simulated station in RMC mode
HSDPA mode:	Keep the EUT communication with simulated station in HSDPA mode
HSUPA mode:	Keep the EUT communication with simulated station in HSUPA 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°C ~ 35°C, Extreme: -30°C ~ +50°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.80Vdc, Extreme: Low 3.50Vdc, High 4.35Vdc
Test Engineer:	Robin Gu(Radiated measurement)

3.4 Description of Test Auxiliary Equipment

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

3.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	±4.6 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	±5.8 dB
Radiated Emission (1GHz ~ 6GHz) (3m SAC)	±4.5 dB
Radiated Emission (6GHz ~ 18GHz) (3m SAC)	4.7 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	5.34 dB
Radiated Emission (30MHz ~ 1GHz) (3m FAR)	3.39 dB
Radiated Emission (1GHz ~ 18GHz) (3m FAR)	5.15 dB
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.30 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.	

3.6 Additions to, Deviations, or Exclusions from the Method

No

3.7 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>

3.8 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>

3.9 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	04-14-2021	04-13-2026
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	01-03-2025	01-02-2026
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	01-03-2025	01-02-2026
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-01-2024	06-30-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	01-03-2025	01-02-2026
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-25-2024	12-24-2025
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-25-2024	12-24-2025
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-25-2024	12-24-2025
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-16-2024	12-15-2025
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	12-16-2024	12-15-2025
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-16-2024	12-15-2025
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-16-2024	12-15-2025
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-16-2024	12-15-2025
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	09-09-2024	09-08-2025
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-15-2025	01-14-2026
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-15-2025	01-14-2026
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-15-2025	01-14-2026
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	07-01-2024	06-30-2025
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-01-2024	06-30-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	06-16-2024	06-15-2025
				06-14-2025	06-13-2026
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-25-2024	12-24-2025
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-25-2024	12-24-2025
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-25-2024	12-24-2025
Pre-amplifier (30MHz ~ 1GHz)	YUNYI	PAM-310N	WXJ097-5	04-21-2025	04-20-2026
Pre-amplifier (1GHz ~ 18GHz)	YUNYI	PAM-118N	WXJ097-6	04-21-2025	04-20-2026
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-16-2024	12-15-2025
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	12-16-2024	12-15-2025
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-16-2024	12-15-2025
Spectrum Analyzer	KEYSIGHT	N9020B	WXJ081-1	06-11-2024	06-10-2025
				06-09-2025	06-08-2026
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	07-30-2024	07-29-2025
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	07-30-2024	07-29-2025
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	07-30-2024	07-29-2025
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		

4 Measurement Setup and Procedure

4.1 Test Channel

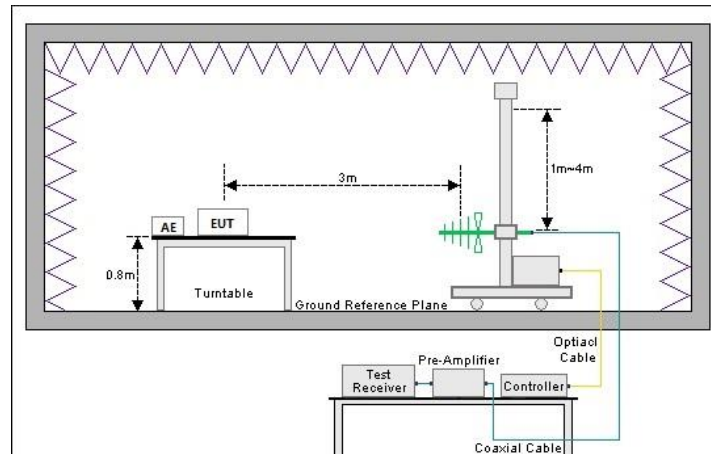
According to ANSI C63.26-2015 chapter 5.1.2.1 Table 2 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

WCDMA band II					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
9262	1852.4	9400	1880.0	9538	1907.6
WCDMA band V					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
4132	826.4	4183	836.6	4233	846.6

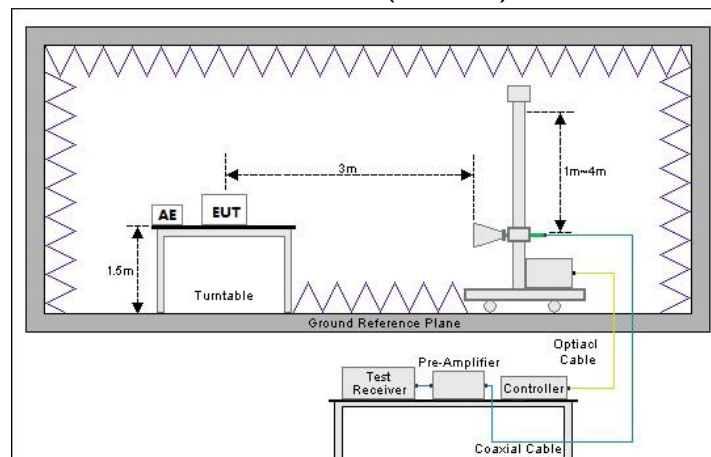
4.2 Test Setup

1) Radiated emission measurement:

Below 1GHz (3m SAC)



Above 1GHz (3m FAR)



4.3 Test Procedure

Test method	Test step
Radiated emission	For below 1GHz: 1. The EUT was placed on the table top 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 table top 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.

5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

This report was amended on FCC ID: O551001923 follow FCC Class II Permissive Change. The original report: JYTSZ-R12-2500286, issued by JianYan Testing Group Shenzhen Co., Ltd. The differences between them as below: Update the 234G and BT&WIFI antenna, update the screen and screen backlight, update the battery, speaker, USB Cable and the adapter.

So need to retest spurious radiation.

Test items	Standard clause	Test data	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.
RF Output Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (d)(4)	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.
Peak-to-Average Power Ratio	Part 24.232 (d) Part 27.50(d)(5)	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.
Modulation Characteristics	Part 2.1047	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.
26dB Emission Bandwidth 99% Occupied Bandwidth	Part 2.1049	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.
Out of Band Emission at Antenna Terminals	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53(h)	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53(h)	See Section 5.2	Pass
Frequency Stability vs. Temperature	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(a)(1)(b)	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.
Frequency Stability vs. Voltage	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(d)(2)	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.	Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286.

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).
3. Please refer to FCC ID: O551001923, report No.: JYTSZ-R12-2500286 issued by JianYan Testing Group Shenzhen Co., Ltd.

Test Method:

ANSI/TIA-603-E-2016
ANSI C63.26-2015

5.1.2 Test Limit

Test items	Limit
Out of Band Emission at Antenna Terminals	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.
Field Strength of Spurious Radiation	

5.2 Field Strength of Spurious Radiation Measurement

WCDMA band II						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1652.80	-53.87	-11.40	-65.27	-13.00	52.27	Vertical
2479.20	-47.91	-8.68	-56.59	-13.00	43.59	Vertical
3305.60	-31.13	-3.76	-34.89	-13.00	21.89	Vertical
1652.80	-61.69	-10.77	-72.46	-13.00	59.46	Horizontal
2479.20	-61.78	-9.07	-70.85	-13.00	57.85	Horizontal
3305.60	-38.69	-3.86	-42.55	-13.00	29.55	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1673.20	-53.42	-10.70	-64.12	-13.00	51.12	Vertical
2509.80	-47.76	-8.66	-56.42	-13.00	43.42	Vertical
3346.40	-30.93	-3.33	-34.26	-13.00	21.26	Vertical
1673.20	-61.62	-10.28	-71.90	-13.00	58.90	Horizontal
2509.80	-61.38	-8.73	-70.11	-13.00	57.11	Horizontal
3346.40	-38.37	-3.42	-41.79	-13.00	28.79	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
1697.60	-53.30	-9.90	-63.20	-13.00	50.20	Vertical
2546.40	-47.67	-8.40	-56.07	-13.00	43.07	Vertical
3395.20	-30.97	-2.55	-33.52	-13.00	20.52	Vertical
1697.60	-61.73	-9.70	-71.43	-13.00	58.43	Horizontal
2546.40	-61.58	-8.17	-69.75	-13.00	56.75	Horizontal
3395.20	-38.43	-2.62	-41.05	-13.00	28.05	Horizontal
Remark:						
1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

WCDMA band V						
Lowest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3704.80	-49.24	-0.43	-49.67	-13.00	36.67	Vertical
5557.20	-55.56	4.18	-51.38	-13.00	38.38	Vertical
3704.80	-56.32	-0.23	-56.55	-13.00	43.55	Horizontal
5557.20	-57.50	4.10	-53.40	-13.00	40.40	Horizontal
Middle channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-49.13	-1.01	-50.14	-13.00	37.14	Vertical
5640.00	-55.44	3.96	-51.48	-13.00	38.48	Vertical
3760.00	-55.99	-0.56	-56.55	-13.00	43.55	Horizontal
5640.00	-57.28	4.14	-53.14	-13.00	40.14	Horizontal
Highest channel						
Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization
3815.20	-49.28	-0.65	-49.93	-13.00	36.93	Vertical
5722.80	-55.70	3.42	-52.28	-13.00	39.28	Vertical
3815.20	-56.17	-0.14	-56.31	-13.00	43.31	Horizontal
5722.80	-57.55	3.81	-53.74	-13.00	40.74	Horizontal
Remark: 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report.						

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