

# FCC REPORT

**Applicant:** Swagtek

**Address of Applicant:** 10205 NW 19th St. Suite 101, Miami, FL, 33172

**Equipment Under Test (EUT)**

Product Name: 10.0 inch Wi-Fi Tablet

Model No.: T10W, STREAM 10W, U10W

Trade mark: LOGIC, iSWAG, UNONU

**FCC ID:** O55102420

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart B

**Date of sample receipt:** 23 Jun., 2020

**Date of Test:** 24 Jun., to 08 Sep., 2020

**Date of report issued:** 09 Sep., 2020

**Test Result:** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 2 Version

Version No.	Date	Description
00	09 Sep., 2020	Original

Tested by:

Mike.ou  
Test Engineer

Date:

09 Sep., 2020

Reviewed by:

Winner Zhang  
Project Engineer

Date:

09 Sep., 2020

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## 4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass
<b>Remark:</b> 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: The EUT not applicable of the test item.		
Test Method:	ANSI C63.4:2014	

## 5 General Information

### 5.1 Client Information

Applicant:	Swagtek
Address:	10205 NW 19th St. Suite 101, Miami, FL, 33172
Manufacturer/ Factory:	Swagtek
Address:	10205 NW 19th St. Suite 101, Miami, FL, 33172

### 5.2 General Description of E.U.T.

Product Name:	10.0 inch Wi-Fi Tablet
Model No.:	T10W, STREAM 10W, U10W
Power supply:	Rechargeable Li-ion Battery DC3.8V, 5000mAh
AC adapter:	Model: MKC-0502000SU Input: AC100-240V, 50/60Hz, 0.4A Output: DC 5.0V, 2000mA
Remark:	Model No.: T10W, STREAM 10W, U10W, were identical inside, the electrical circuit design, layout, components used and internal wiring, The only difference between them is as follows: T10W model corresponds to the trademark LOGIC. STREAM 10W model correspond to the trademark iSWAG. U10W model corresponds to the trademark UNONU.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

### 5.3 Test Mode and test samples plans

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Recording mode	Keep the EUT in Charging+Recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

### 5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

## 5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX7070	2J8XSZ2	DoC
DELL	MONITOR	SE2018HR	3M7QPY2	DoC
DELL	KEYBOARD	KB216d	N/A	DoC
DELL	MOUSE	MS116t1	N/A	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

## 5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

## 5.7 Description of Cable Used

Cable Type	Description	Length	From	To
Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.2m	EUT	Headset

## 5.8 Additions to, deviations, or exclusions from the method

No

## 5.9 Laboratory Facility

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

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

Shenzhen Zhongjian Nanfang Testing 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 of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

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

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 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>

## 5.10 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.  
Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,  
Bao'an District, Shenzhen, Guangdong, China  
Tel: +86-755-23118282, Fax: +86-755-23116366  
Email: [info@ccis-cb.com](mailto:info@ccis-cb.com), Website: <http://www.ccis-cb.com>

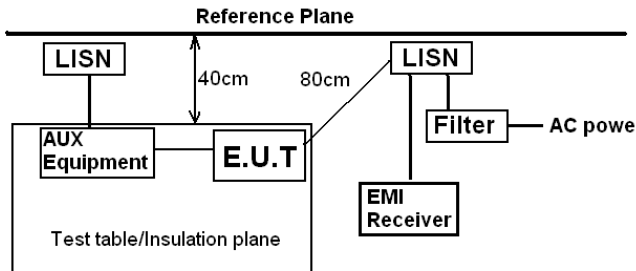
## 5.11 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
				07-22-2020	07-21-2021
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-07-2020	03-06-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2020	06-21-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2020
				07-21-2020	07-20-2021
Cable	HP	10503A	N/A	03-05-2020	03-04-2021
EMI Test Software	AUDIX	E3	Version: 6.110919b		

## 6 Test results and Measurement Data

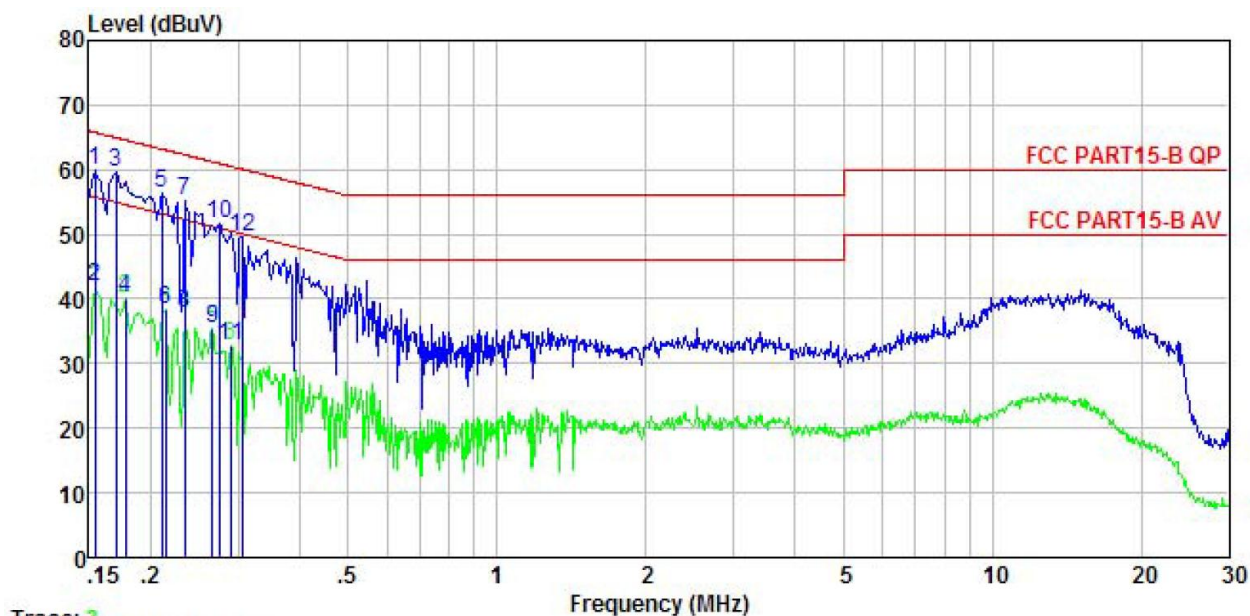
### 6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dBμV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	0.5-30	60	50
* Decreases with the logarithm of the frequency.			
Test setup:	 <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test procedure	<ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4(latest version) on conducted measurement.</li> </ol>		
Test Instruments:	Refer to section 5.11 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		



Measurement data:

Product name:	10.0 inch Wi-Fi Tablet	Product model:	T10W
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Humi: 55%

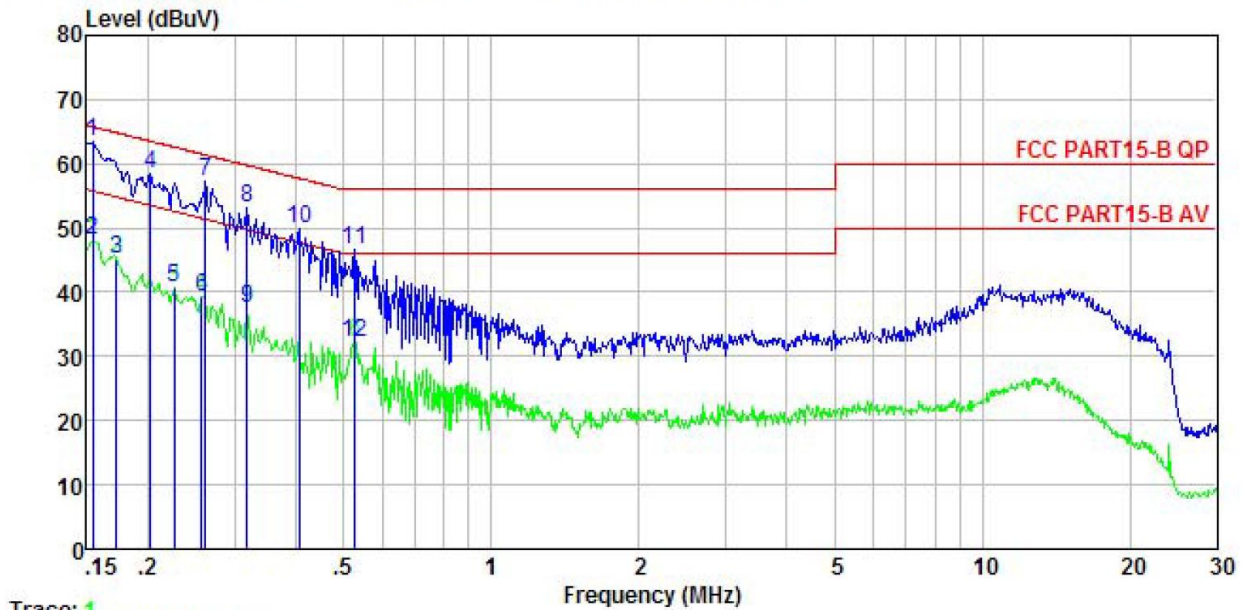


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	49.67	-0.57	10.78	59.82	65.78	-5.96	QP
2	0.154	31.75	-0.57	10.78	41.90	55.78	-13.88	Average
3	0.170	49.55	-0.58	10.77	59.64	64.94	-5.30	QP
4	0.178	29.98	-0.58	10.77	40.05	54.59	-14.54	Average
5	0.211	46.26	-0.58	10.76	56.27	63.18	-6.91	QP
6	0.214	28.43	-0.58	10.76	38.43	53.05	-14.62	Average
7	0.234	45.31	-0.57	10.75	55.29	62.30	-7.01	QP
8	0.234	27.70	-0.57	10.75	37.68	52.30	-14.62	Average
9	0.266	25.61	-0.56	10.75	35.57	51.25	-15.68	Average
10	0.274	41.61	-0.56	10.74	51.55	60.98	-9.43	QP
11	0.289	22.95	-0.55	10.74	32.89	50.54	-17.65	Average
12	0.307	39.62	-0.54	10.74	49.62	60.06	-10.44	QP

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Product name:	10.0 inch Wi-Fi Tablet	Product model:	T10W
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%



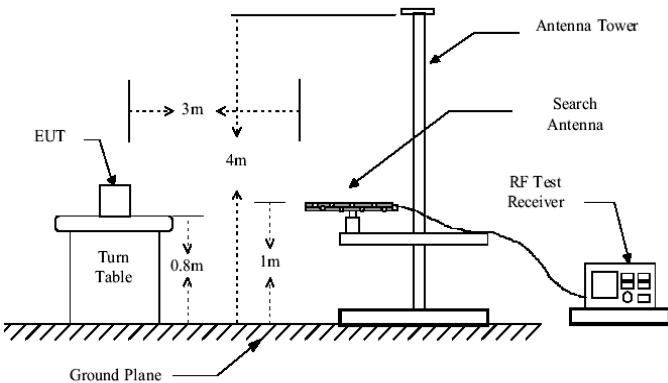
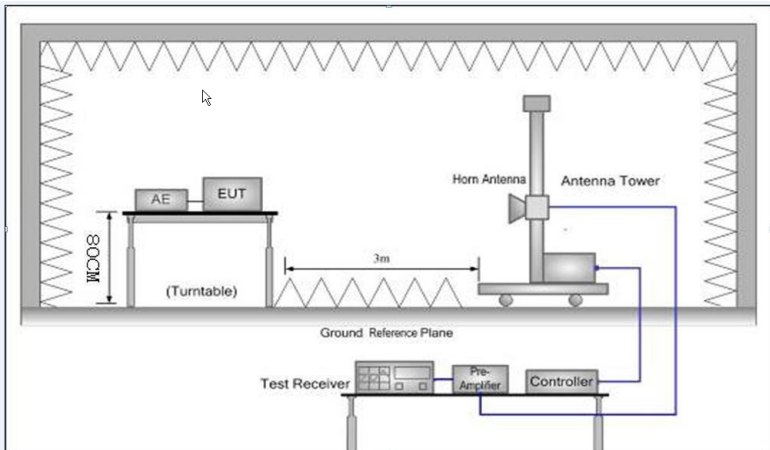
Trace: 4

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	53.26	-0.69	10.78	63.36	65.78	-2.42	QP
2	0.154	38.04	-0.69	10.78	48.14	55.78	-7.64	Average
3	0.172	34.95	-0.68	10.77	45.05	54.86	-9.81	Average
4	0.202	48.30	-0.67	10.76	58.39	63.54	-5.15	QP
5	0.226	30.59	-0.67	10.75	40.67	52.61	-11.94	Average
6	0.258	29.31	-0.67	10.75	39.40	51.51	-12.11	Average
7	0.262	47.14	-0.67	10.75	57.23	61.38	-4.15	QP
8	0.318	43.15	-0.66	10.74	53.22	59.75	-6.53	QP
9	0.318	27.52	-0.66	10.74	37.59	49.75	-12.16	Average
10	0.406	39.94	-0.63	10.72	49.98	57.73	-7.75	QP
11	0.527	36.38	-0.65	10.76	46.52	56.00	-9.48	QP
12	0.527	22.14	-0.65	10.76	32.28	46.00	-13.72	Average

**Notes:**

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

## 6.2 Radiated Emission

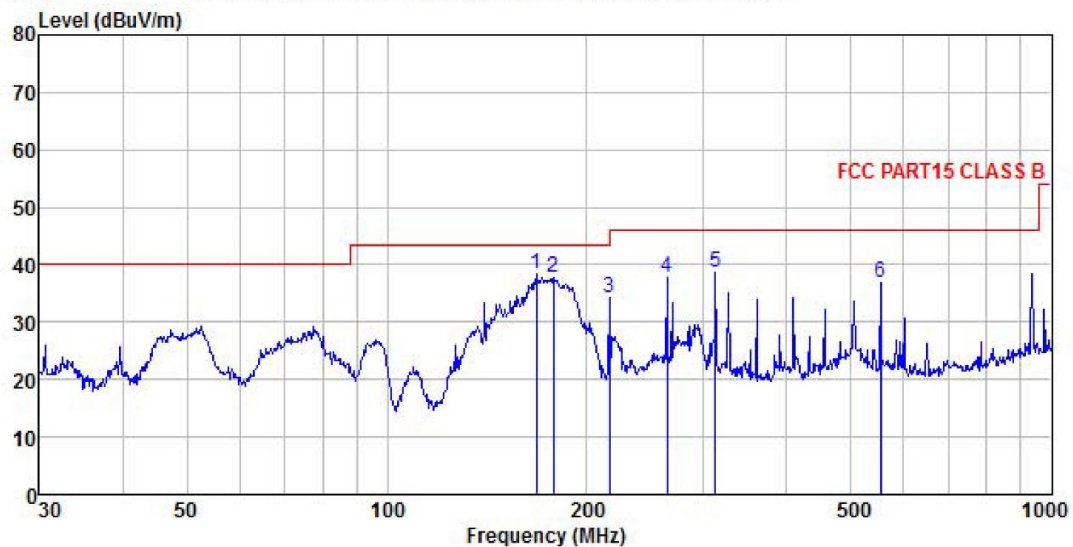
Test Requirement:	FCC Part 15 B Section 15.109				
Test Frequency Range:	30MHz to 6000MHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak RMS	1MHz 1MHz	3MHz 3MHz	Peak Value Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		54.0 74.0		Average Value Peak Value
Test setup:	Below 1GHz				
					
Test setup:	Above 1GHz				
					
Test Procedure:	<div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div>				

	<p>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p>
Test Instruments:	Refer to section 5.11 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz were the noise floor , which were no recorded

## Measurement Data:

### Below 1GHz:

Product Name:	10.0 inch Wi-Fi Tablet	Product Model:	T10W
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%



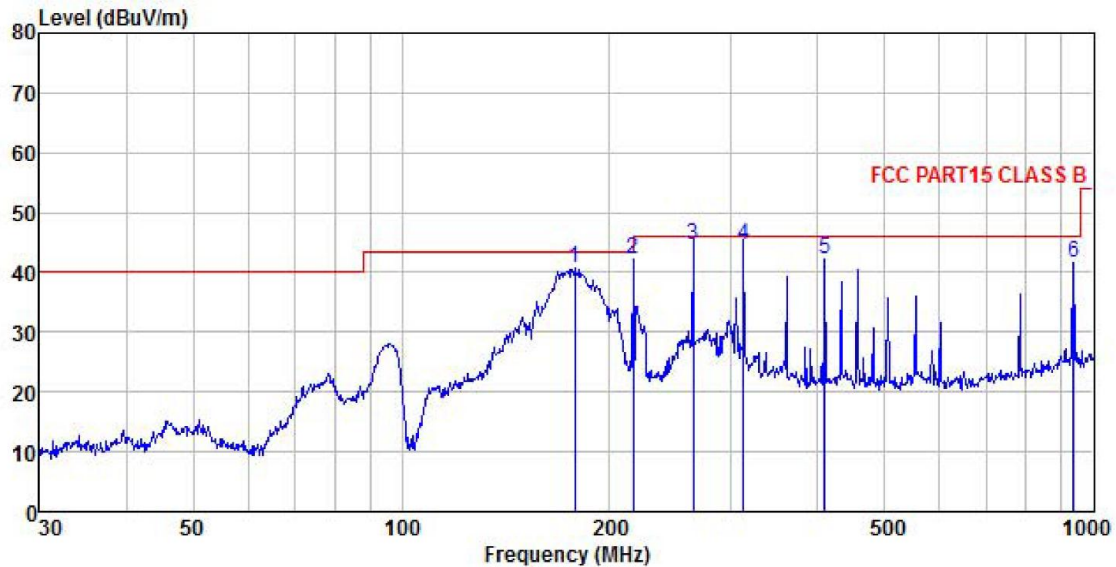
	Freq	Read	Antenna	Cable	Aux	Preamp	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss	Factor	Factor	dBuV/m	dBuV/m	dB	
		dBuV	dB/m	dB	dB	dB				
1	167.824	50.77	16.10	0.65	0.00	29.07	38.45	43.50	-5.05	QP
2	178.133	49.13	16.86	0.68	0.00	28.99	37.68	43.50	-5.82	QP
3	216.024	43.92	18.37	0.74	0.00	28.73	34.30	46.00	-11.70	QP
4	263.819	46.98	18.56	0.81	0.00	28.51	37.84	46.00	-8.16	QP
5	312.179	47.67	18.73	0.88	0.00	28.48	38.80	46.00	-7.20	QP
6	552.883	45.19	19.61	1.16	0.00	29.09	36.87	46.00	-9.13	QP

#### Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.



Product Name:	10.0 inch Wi-Fi Tablet	Product Model:	T10W
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%



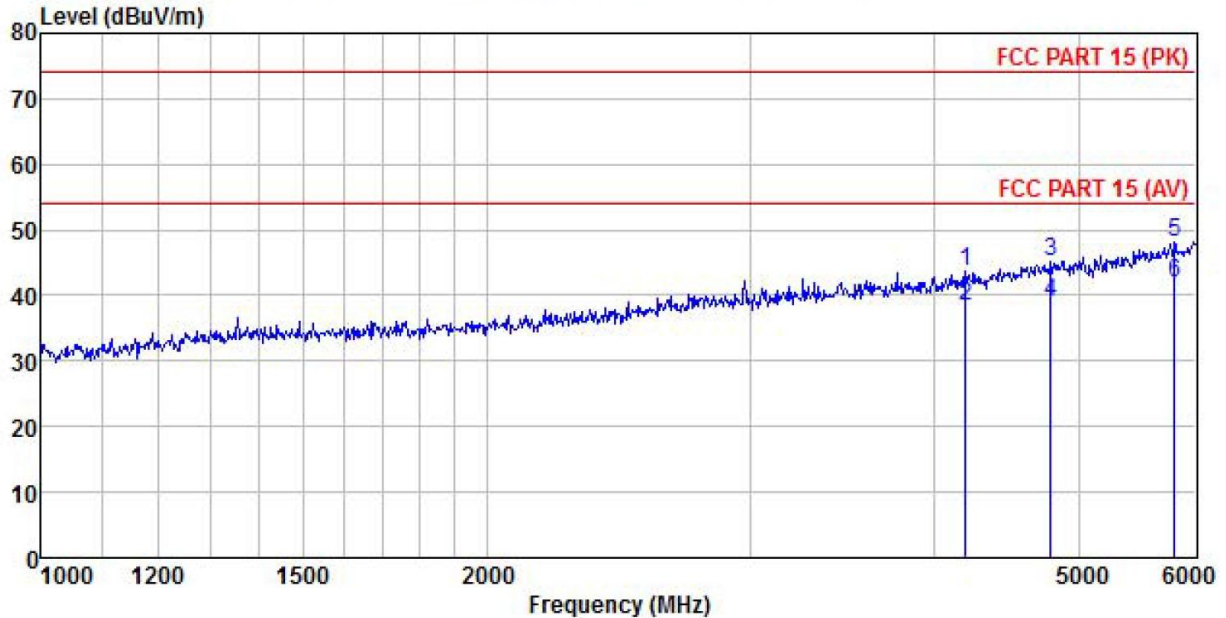
	ReadAntenna	Cable	Aux Preamp	Level	Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dB	dB	
1	178.133	52.07	16.86	0.68	0.00	28.99	40.62 43.50 -2.88 QP
2	216.024	51.91	18.37	0.74	0.00	28.73	42.29 46.00 -3.71 QP
3	263.819	53.61	18.56	0.81	0.00	28.51	44.47 46.00 -1.53 QP
4	312.179	53.38	18.73	0.88	0.00	28.48	44.51 46.00 -1.49 QP
5	408.946	50.84	19.12	1.00	0.00	28.80	42.16 46.00 -3.84 QP
6	935.546	45.07	22.75	1.54	0.00	27.77	41.59 46.00 -4.41 QP

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

**Above 1GHz:**

<b>Product Name:</b>	10.0 inch Wi-Fi Tablet	<b>Product Model:</b>	T10W
<b>Test By:</b>	Mike	<b>Test mode:</b>	PC mode
<b>Test Frequency:</b>	1 GHz ~ 6 GHz	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24℃ Humi: 57%

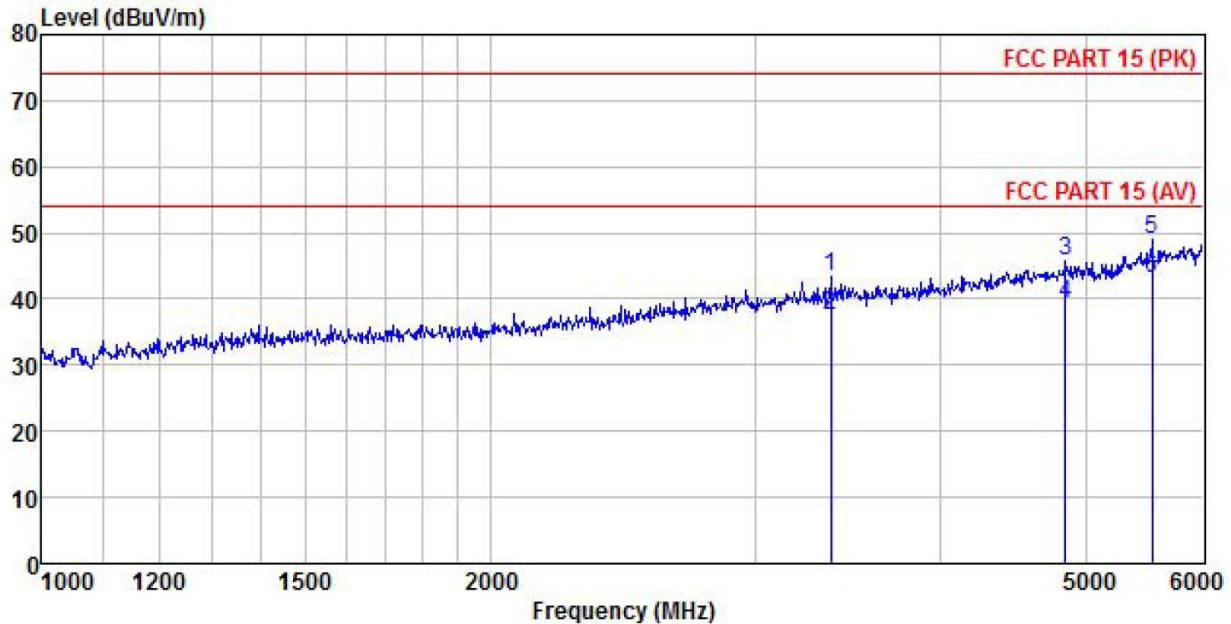


	Freq	ReadAntenna	Cable	Aux	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB
1	4192.963	47.18	29.62	6.39	2.27	41.81	43.65	74.00	-30.35 Peak
2	4192.963	41.92	29.62	6.39	2.27	41.81	38.39	54.00	-15.61 Average
3	4787.449	46.87	30.75	6.81	2.44	41.83	45.04	74.00	-28.96 Peak
4	4787.449	40.78	30.75	6.81	2.44	41.83	38.95	54.00	-15.05 Average
5	5799.177	47.15	32.42	7.89	2.75	42.02	48.19	74.00	-25.81 Peak
6	5799.177	40.83	32.42	7.89	2.75	42.02	41.87	54.00	-12.13 Average

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	10.0 inch Wi-Fi Tablet	Product Model:	T10W
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%



	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Aux Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	3375.707	48.31	28.63	5.60	2.13	41.36	43.31	74.00	-30.69	Peak
2	3375.707	42.44	28.63	5.60	2.13	41.36	37.44	54.00	-16.56	Average
3	4847.873	47.57	30.87	6.83	2.46	41.83	45.90	74.00	-28.10	Peak
4	4847.873	41.02	30.87	6.83	2.46	41.83	39.35	54.00	-14.65	Average
5	5535.214	48.69	32.31	7.24	2.66	41.81	49.09	74.00	-24.91	Peak
6	5535.214	42.84	32.31	7.24	2.66	41.81	43.24	54.00	-10.76	Average

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.