

# FCC Radio Test Report

## FCC ID: 2AC8G-UITAS

### Original Grant

**Report No.** : TB-FCC146529  
**Applicant** : Outform Ltd.  
**Equipment Under Test (EUT)**  
**EUT Name** : iDISPLAY TABLET  
**Model No.** : UIT313B-U01  
**Series No.** : Please see the page of 4  
**Brand Name** : ContextMedia Health  
**Receipt Date** : 2016-01-04  
**Test Date** : 2016-01-05 to 2016-01-13  
**Issue Date** : 2016-01-14  
**Standards** : FCC Part 15, Subpart C (15.247:2015)  
**Test Method** : ANSI C63.10: 2013  
**Conclusions** : **PASS**

In the configuration tested, the EUT complied with the standards specified above,  
The EUT technically complies with the FCC and IC requirements

**Test/Witness  
Engineer**

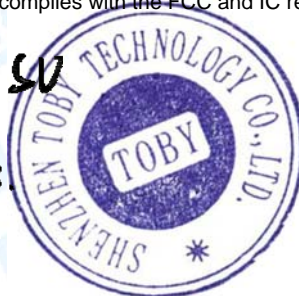
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**Approved &  
Authorized**

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Ray Lai



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. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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## 1. General Information about EUT

### 1.1 Client Information

**Applicant** : Outform Ltd.  
**Address** : Room A103 and A105, Nanshan Medical Instrument Industry Park,  
No. 1019, Nanhai Avenue Nanshan District, Shenzhen, Guangdong  
Province, China  
**Manufacturer** : Outform Ltd.  
**Address** : Room A103 and A105, Nanshan Medical Instrument Industry Park,  
No. 1019, Nanhai Avenue Nanshan District, Shenzhen, Guangdong  
Province, China

### 1.2 General Description of EUT (Equipment Under Test)

<b>EUT Name</b>	:	iDISPLAY TABLET	
<b>Models No.</b>	:	UIT313B-U01, UIT313X-XYX, UIT305X-XYX, UIT413X-XYX, UIT243X-XYX, UIT410X-XYX, UIT407X-XYX, UIM400X-XYX (The 1st X is A-Z represents the software version; The 2nd X is A-Z represents the color, YY is client number from "01" to "50".)	
<b>Model Difference</b>	:	They are identical in circuitry design, PCB layout, electrical components used, internal wiring and functions, only different on color.	
<b>Product Description</b>	:	Operation Frequency: BLE: 2402MHz~2480MHz WIFI 802.11b/g/n(H20): 2412MHz~2462MHz 802.11n(H40): 2422MHz~2452MHz see note(2)	
		Number of Channel:	Bluetooth 4.0 (BLE): 40 channels see note(3)
		RF Output Power:	-6.092 dBm Conducted Power
		Antenna Gain:	1.66 dBi FPC Antenna
		Modulation Type:	GFSK
		Bit Rate of Transmitter:	1Mbps(GFSK)
<b>Power Supply</b>	:	DC power supplied by AC/DC Adapter. DC Voltage supplied from Li-ion battery.	
<b>Power Rating</b>	:	Input: AC 100~240V 50/60Hz 0.7A Max. Output: 5V 3A. DC 3.7V from 2*5000mA Li-ion battery.	
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual	

**Note:**

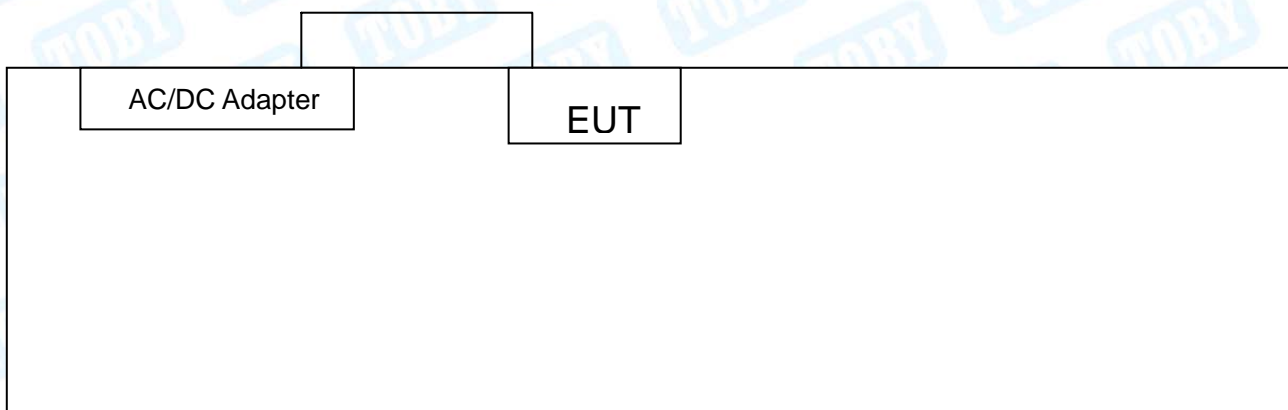
(1) This Test Report is FCC Part 15.247 for Bluetooth BLE, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v03r03.

- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. The EUT has also been tested and complied the FCC 15C for WiFi function, and recorded in the separate test report.
- (3) Antenna information provided by the applicant.
- (4) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
<b>00</b>	<b>2402</b>	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	19	2440	33	2468
06	2414	<b>20</b>	<b>2442</b>	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	<b>39</b>	<b>2480</b>
12	2426	26	2454		
13	2428	27	2456		

### 1.3 Block Diagram Showing the Configuration of System Tested

#### TX Mode



### 1.4 Description of Support Units

The EUT has been tested as an independent unit.

## 1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test	
Final Test Mode	Description
Mode 1	AC Charging With TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 2	AC Charging With TX Mode
Mode 3	TX Mode (Channel 00/20/39)

### Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.  
According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:  
Bluetooth BLE Mode: GFSK Modulation Transmitting mode.
- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a mobile unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

## 1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF setting.

Test Software Version	Bluetooth MP Tool		
Channel	CH 00	CH 20	CH 39
BLE Mode	DEF	DEF	DEF

## 1.7 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty ( $U_{Lab}$ )
Conducted Emission	Level Accuracy: 9kHz~150kHz	$\pm 3.42$ dB
	150kHz to 30MHz	$\pm 3.42$ dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	$\pm 4.60$ dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	$\pm 4.40$ dB
Radiated Emission	Level Accuracy: Above 1000MHz	$\pm 4.20$ dB

## 1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

### **CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

### **FCC List No.: (811562)**

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

### **IC Registration No.: (11950A-1)**

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

## 2. Test Summary

FCC Part 15 Subpart C(15.247)/RSS 247 Issue 1				
Standard Section		Test Item	Judgment	Remark
FCC	IC			
15.203	/	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A
<b>Note:</b> "/" for no requirement for this test item. N/A is an abbreviation for Not Applicable.				

### 3. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Aug. 07, 2015	Aug. 06, 2016
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Aug. 07, 2015	Aug. 06, 2016
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Aug. 07, 2015	Aug. 06, 2016
LISN	Rohde & Schwarz	ENV216	101131	Aug. 07, 2015	Aug. 06, 2016
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Aug. 29, 2015	Aug. 28, 2016
EMI Test Receiver	Rohde & Schwarz	ESCI	100010/007	Aug. 07, 2015	Aug. 06, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 28, 2015	Mar. 27, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 28, 2015	Mar. 27, 2016
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 28, 2015	Mar. 27, 2016
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 28, 2015	Mar. 27, 2016
Pre-amplifier	Sonoma	310N	185903	Mar. 28, 2015	Mar. 27, 2016
Pre-amplifier	HP	8447B	3008A00849	Mar. 28, 2015	Mar. 27, 2016
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 28, 2015	Mar. 27, 2016
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

## 4. Conducted Emission Test

### 4.1 Test Standard and Limit

#### 4.1.1 Test Standard

FCC Part 15.207

#### 4.1.2 Test Limit

**Conducted Emission Test Limit**

Frequency	Maximum RF Line Voltage (dB $\mu$ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

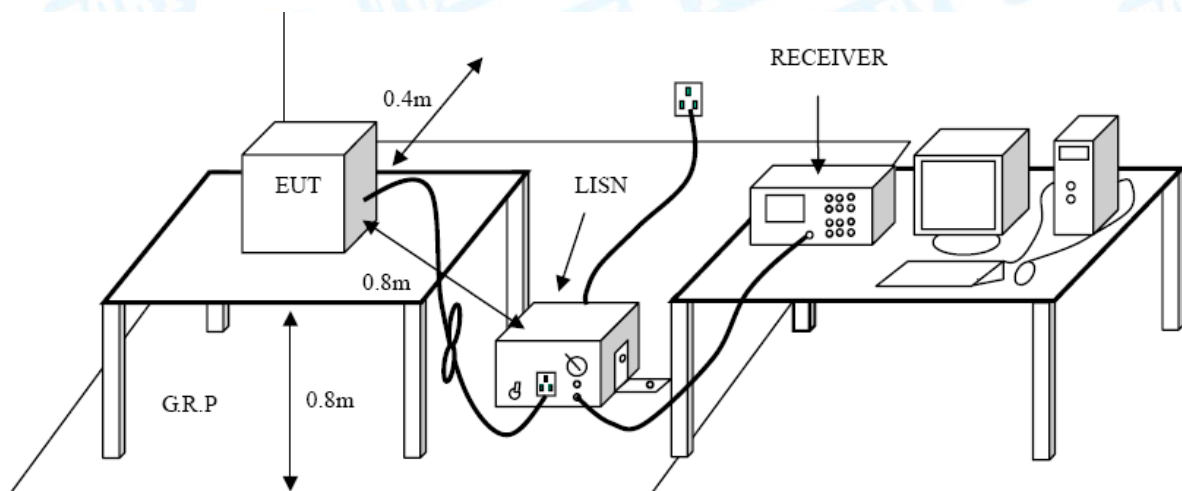
Notes:

(1) \*Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.2 Test Setup



### 4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

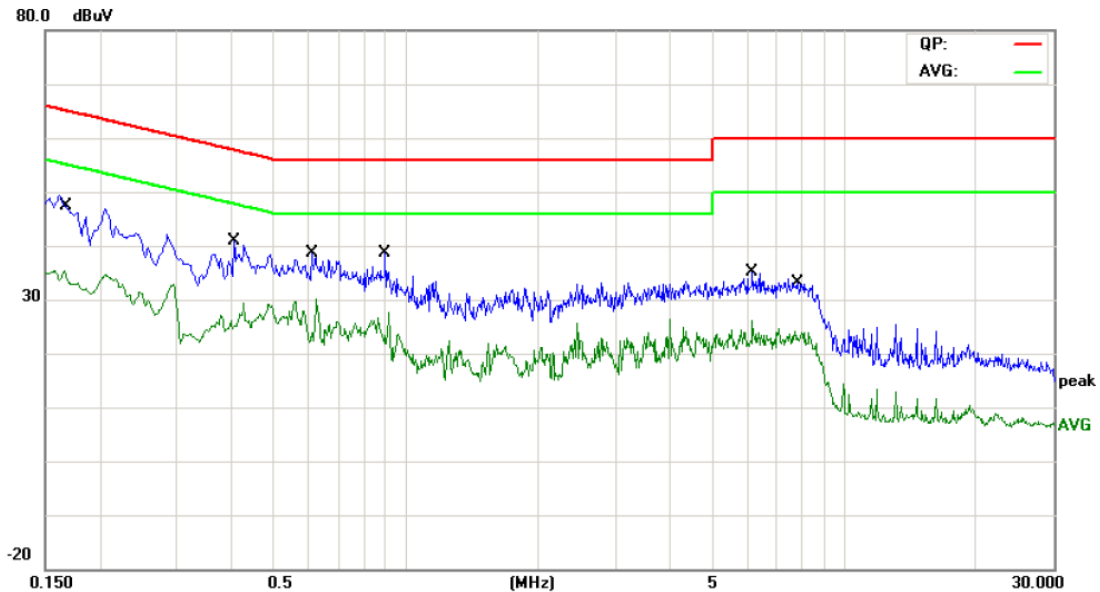
#### 4.4 EUT Operating Mode

Please refer to the description of test mode.

#### 4.5 Test Data

Test data please refer the following pages.

<b>EUT:</b>	iDISPLAY TABLET	<b>Model Name :</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Terminal:</b>	Line		
<b>Test Mode:</b>	AC Charging with TX BLE Mode 2402MHz		
<b>Remark:</b>	Only worse case is reported		

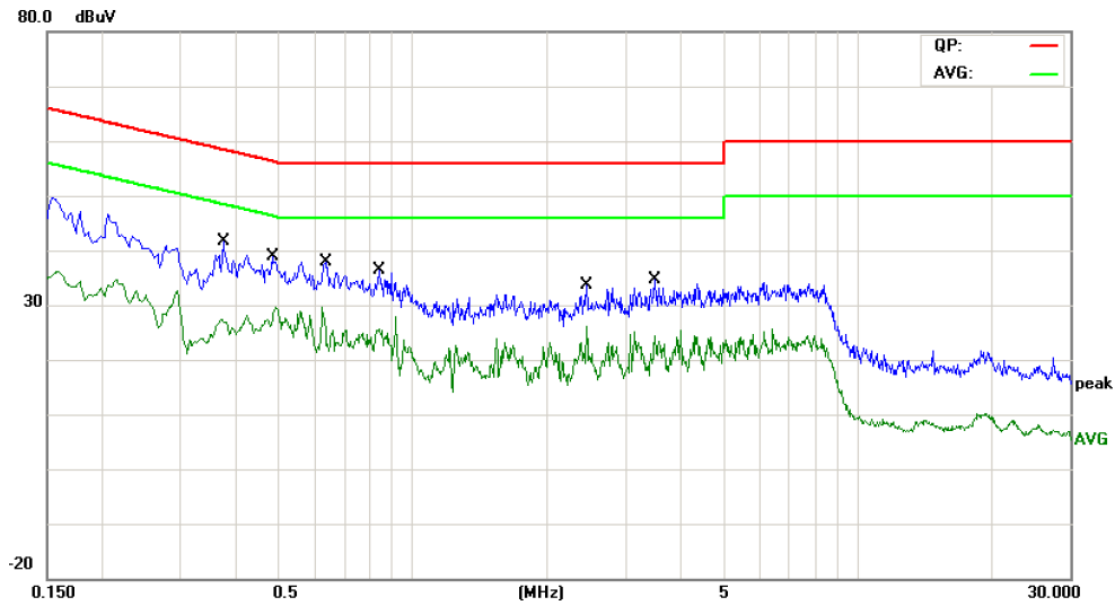


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1685	29.90	9.96	39.86	65.03	-25.17	QP
2	*	0.1685	23.07	9.96	33.03	55.03	-22.00	AVG
3		0.4060	22.36	10.02	32.38	57.73	-25.35	QP
4		0.4060	15.06	10.02	25.08	47.73	-22.65	AVG
5		0.6100	21.61	10.07	31.68	56.00	-24.32	QP
6		0.6100	11.91	10.07	21.98	46.00	-24.02	AVG
7		0.8980	19.29	10.08	29.37	56.00	-26.63	QP
8		0.8980	11.03	10.08	21.11	46.00	-24.89	AVG
9		6.1660	18.72	10.02	28.74	60.00	-31.26	QP
10		6.1660	12.66	10.02	22.68	50.00	-27.32	AVG
11		7.8460	16.34	10.09	26.43	60.00	-33.57	QP
12		7.8460	10.60	10.09	20.69	50.00	-29.31	AVG

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	iDISPLAY TABLET	<b>Model Name :</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Terminal:</b>	Neutral		
<b>Test Mode:</b>	AC Charging with TX BLE Mode 2402MHz		
<b>Remark:</b>	Only worse case is reported		

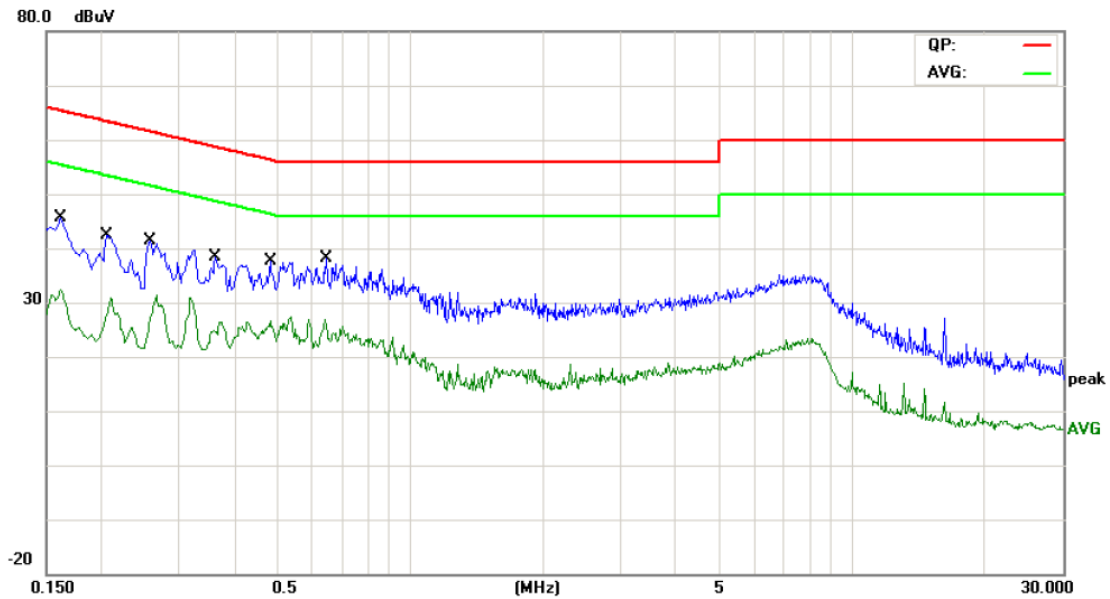


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.3740	23.62	10.06	33.68	58.41	-24.73	QP
2		0.3740	15.87	10.06	25.93	48.41	-22.48	AVG
3		0.4820	23.78	10.03	33.81	56.30	-22.49	QP
4	*	0.4820	18.43	10.03	28.46	46.30	-17.84	AVG
5		0.6340	21.67	10.02	31.69	56.00	-24.31	QP
6		0.6340	14.20	10.02	24.22	46.00	-21.78	AVG
7		0.8420	21.75	10.09	31.84	56.00	-24.16	QP
8		0.8420	15.60	10.09	25.69	46.00	-20.31	AVG
9		2.4539	19.70	10.06	29.76	56.00	-26.24	QP
10		2.4539	16.10	10.06	26.16	46.00	-19.84	AVG
11		3.4980	18.83	10.06	28.89	56.00	-27.11	QP
12		3.4980	13.08	10.06	23.14	46.00	-22.86	AVG

\*:Maximum data x:Over limit !:over margin

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	iDISPLAY TABLET	<b>Model Name :</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 240V/60Hz		
<b>Terminal:</b>	Line		
<b>Test Mode:</b>	AC Charging with TX BLE Mode 2402MHz		
<b>Remark:</b>	Only worse case is reported		

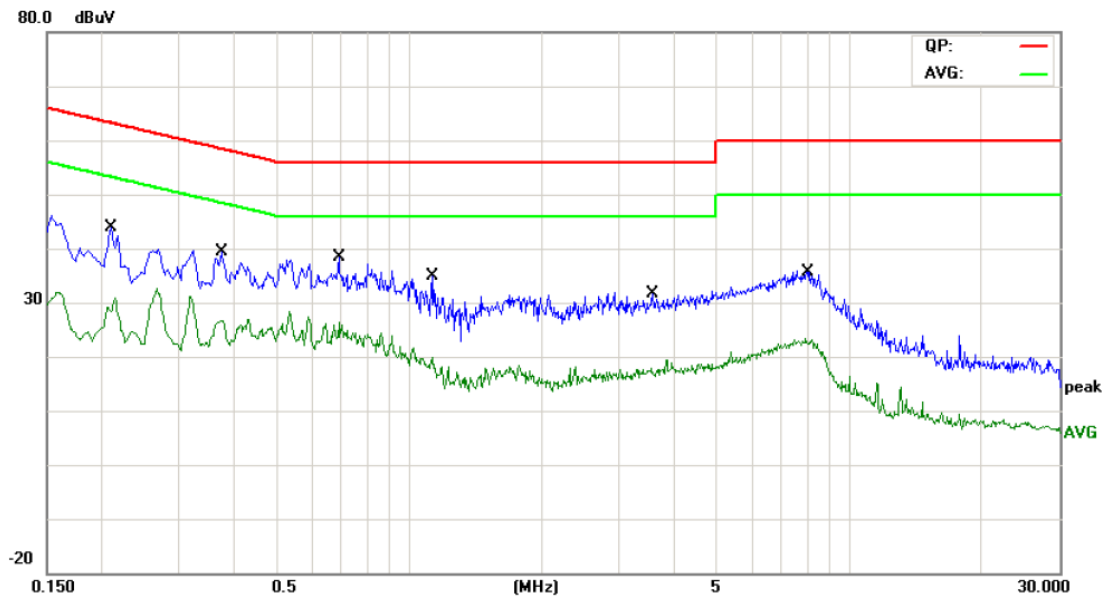


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.1620	30.63	9.94	40.57	65.36	-24.79	QP
2	0.1620	20.29	9.94	30.23	55.36	-25.13	AVG
3	0.2060	28.09	10.02	38.11	63.36	-25.25	QP
4	0.2060	18.42	10.02	28.44	53.36	-24.92	AVG
5	0.2580	26.95	10.02	36.97	61.49	-24.52	QP
6	0.2580	17.83	10.02	27.85	51.49	-23.64	AVG
7	0.3620	23.96	10.02	33.98	58.68	-24.70	QP
8	0.3620	15.26	10.02	25.28	48.68	-23.40	AVG
9	0.4820	21.29	10.02	31.31	56.30	-24.99	QP
10	0.4820	14.81	10.02	24.83	46.30	-21.47	AVG
11	0.6460	21.66	10.09	31.75	56.00	-24.25	QP
12 *	0.6460	14.49	10.09	24.58	46.00	-21.42	AVG

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	iDISPLAY TABLET	<b>Model Name :</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 240V/60Hz		
<b>Terminal:</b>	Neutral		
<b>Test Mode:</b>	AC Charging with TX BLE Mode 2402MHz		
<b>Remark:</b>	Only worse case is reported		



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.2100	27.99	10.12	38.11	63.20	-25.09	QP
2	0.2100	19.92	10.12	30.04	53.20	-23.16	AVG
3	0.3740	24.45	10.06	34.51	58.41	-23.90	QP
4	0.3740	16.17	10.06	26.23	48.41	-22.18	AVG
5	0.6900	21.46	10.02	31.48	56.00	-24.52	QP
6 *	0.6900	13.80	10.02	23.82	46.00	-22.18	AVG
7	1.1300	15.82	10.15	25.97	56.00	-30.03	QP
8	1.1300	7.67	10.15	17.82	46.00	-28.18	AVG
9	3.5780	14.47	10.06	24.53	56.00	-31.47	QP
10	3.5780	6.03	10.06	16.09	46.00	-29.91	AVG
11	8.0620	19.16	10.10	29.26	60.00	-30.74	QP
12	8.0620	11.61	10.10	21.71	50.00	-28.29	AVG

\*:Maximum data x:Over limit !:over margin

**Emission Level= Read Level+ Correct Factor**

## 5. Radiated Emission Test

### 5.1 Test Standard and Limit

#### 5.1.1 Test Standard

FCC Part 15.209

#### 5.1.2 Test Limit

#### Radiated Emission Limits (9kHz~1000MHz)

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

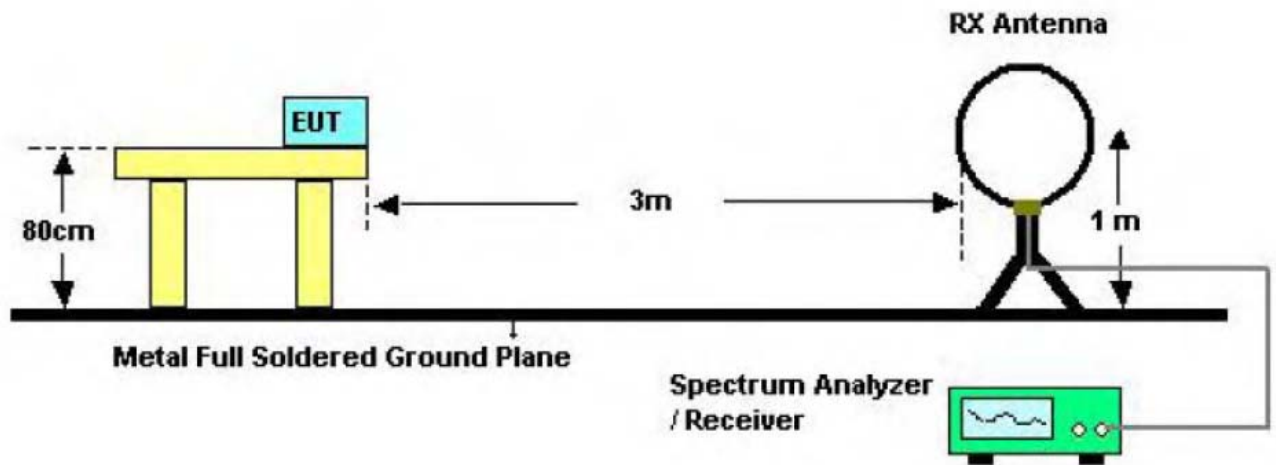
#### Radiated Emission Limit (Above 1000MHz)

Frequency (MHz)	Class A (dBuV/m)(at 3 M)		Class B (dBuV/m)(at 3 M)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

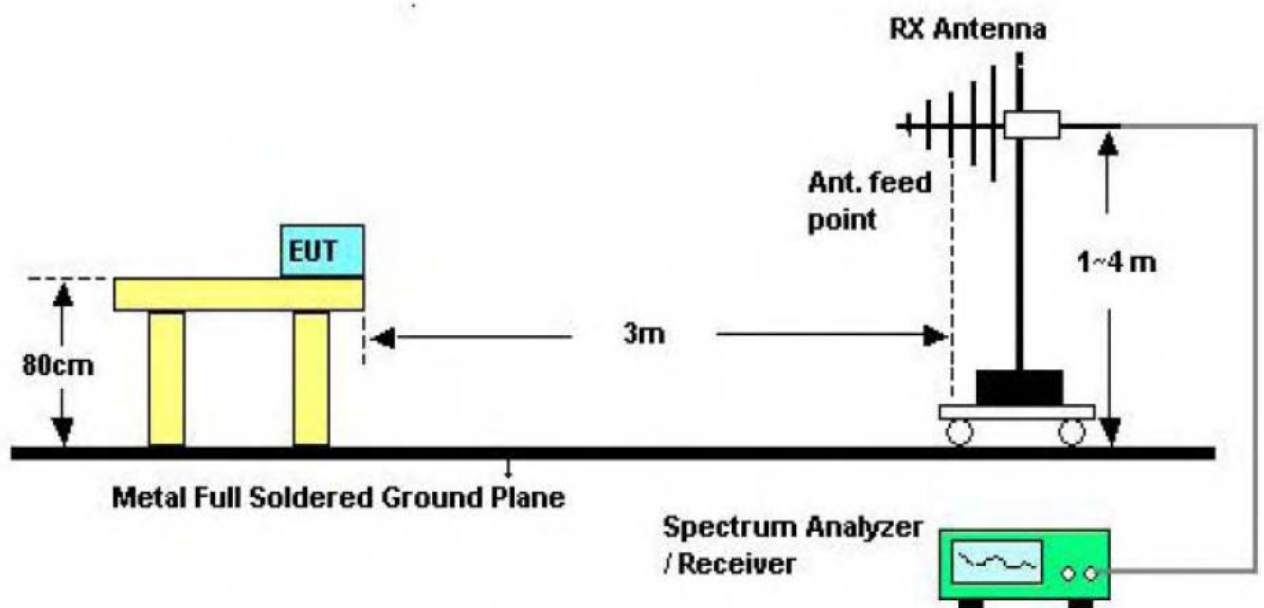
**Note:**

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

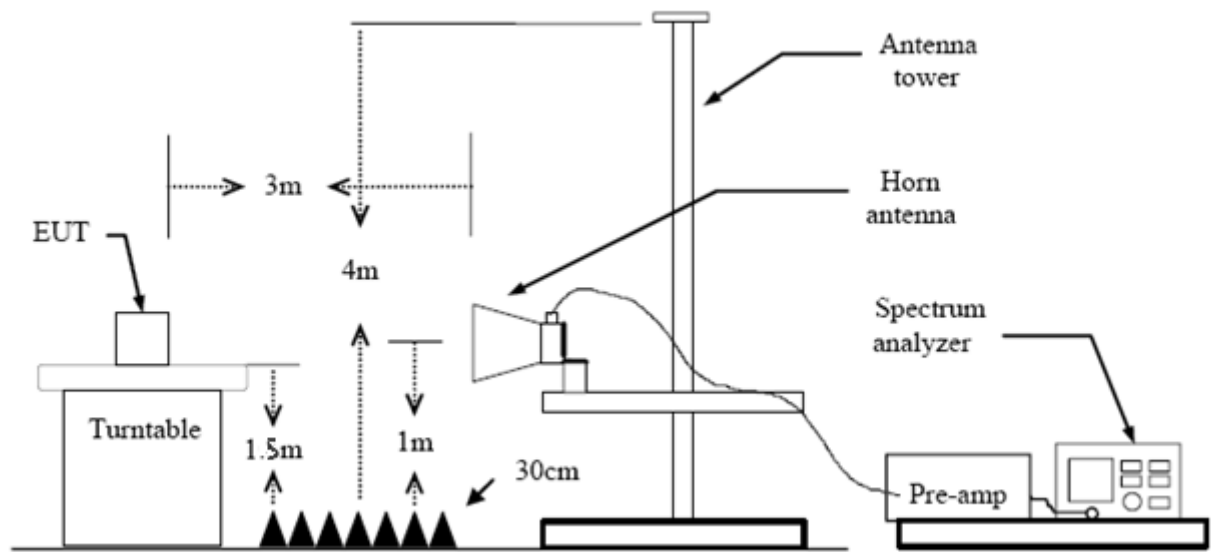
## 5.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

### 5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

## 5.4 EUT Operating Condition

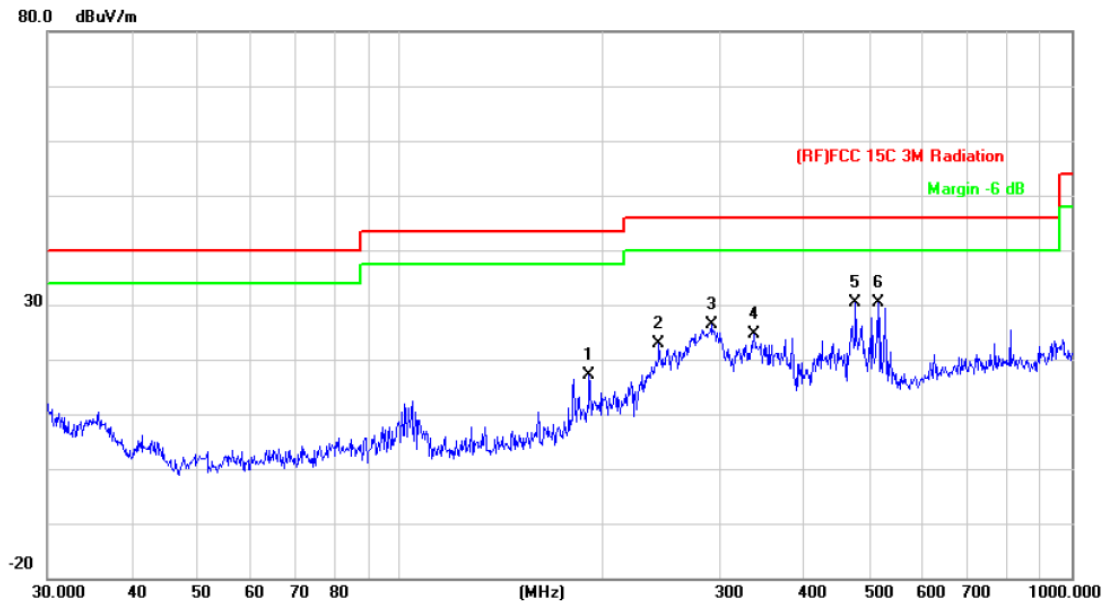
The Equipment Under Test was set to Continual Transmitting in maximum power.

## 5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 kHz with Peak Detector for Average Values.

Test data please refer the following pages.

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	BLE TX 2402 Mode		
<b>Remark:</b>	Only worse case is reported		

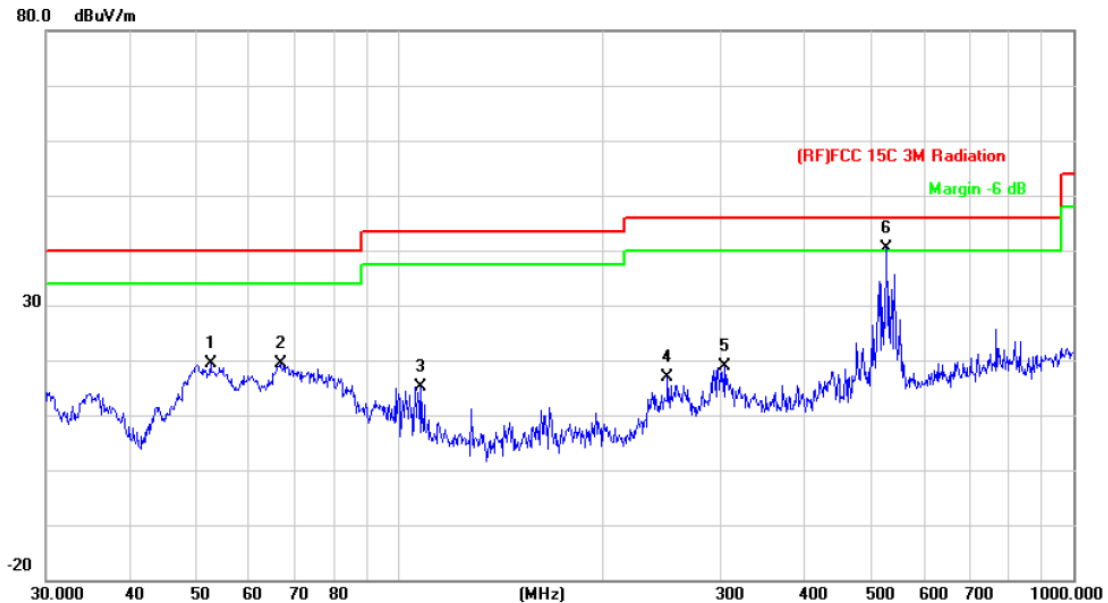


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		191.7450	37.82	-20.81	17.01	43.50	-26.49	peak
2		243.3771	41.23	-18.43	22.80	46.00	-23.20	peak
3		291.0360	43.63	-17.26	26.37	46.00	-19.63	peak
4		337.2155	40.12	-15.39	24.73	46.00	-21.27	peak
5		477.1693	42.02	-11.61	30.41	46.00	-15.59	peak
6	*	515.4374	41.18	-10.74	30.44	46.00	-15.56	peak

\*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	BLE TX 2402 Mode		
<b>Remark:</b>	Only worse case is reported		

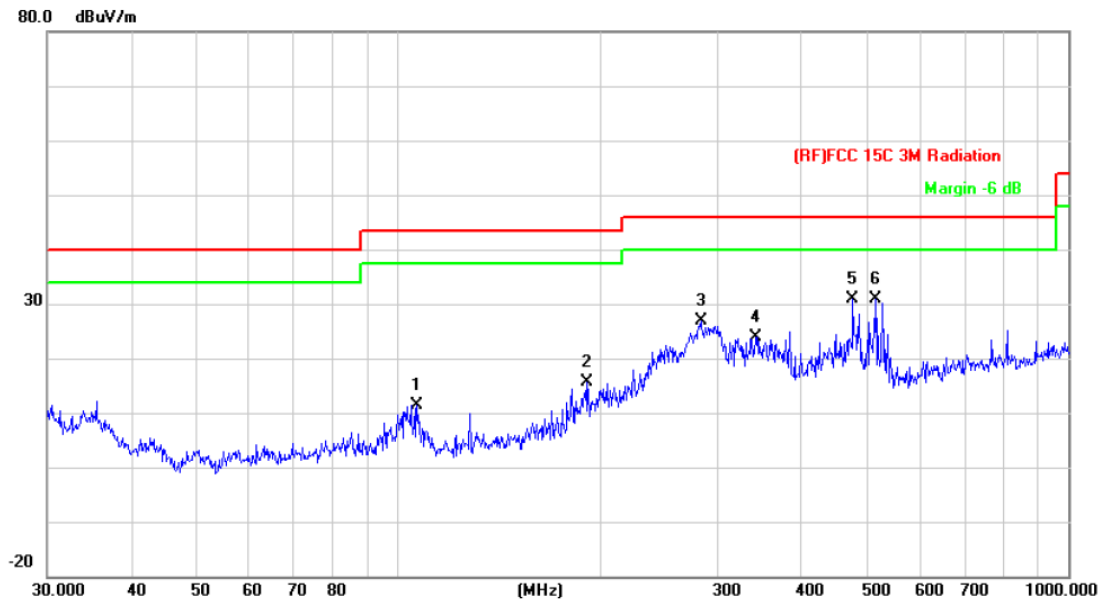


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		52.5753	43.72	-24.43	19.29	40.00	-20.71	peak
2		66.7325	43.17	-23.91	19.26	40.00	-20.74	peak
3		107.8877	37.05	-21.86	15.19	43.50	-28.31	peak
4		250.3012	35.06	-18.11	16.95	46.00	-29.05	peak
5		303.5437	35.78	-16.95	18.83	46.00	-27.17	peak
6	*	528.2458	50.60	-10.14	40.46	46.00	-5.54	peak

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	BLE TX 2442 Mode		
<b>Remark:</b>	Only worse case is reported		

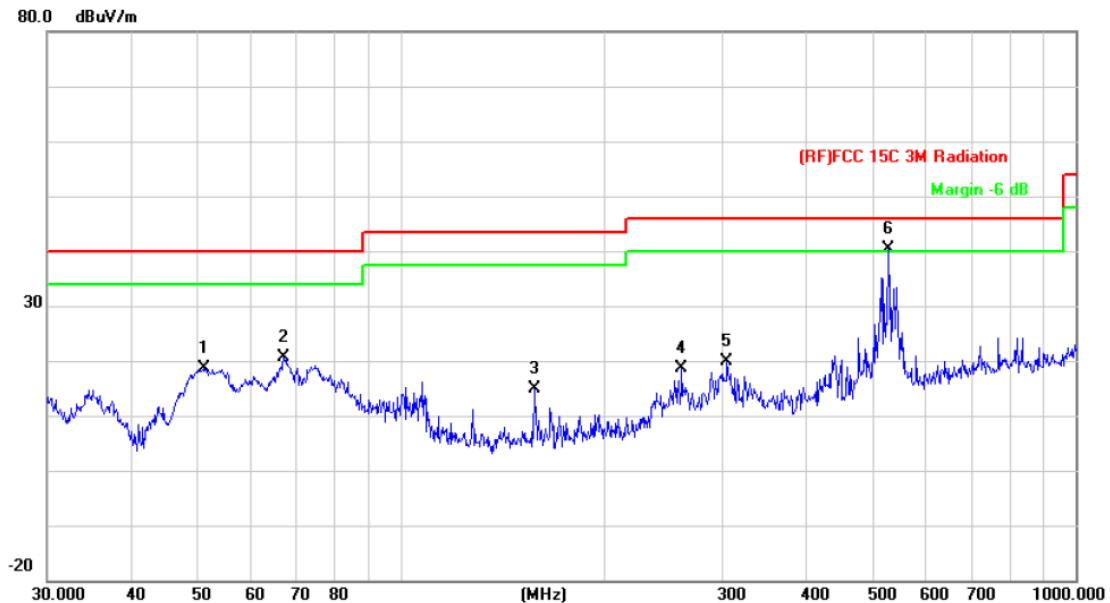


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		106.7587	33.24	-21.85	11.39	43.50	-32.11	peak
2		191.7450	36.52	-20.81	15.71	43.50	-27.79	peak
3		282.9852	44.26	-17.42	26.84	46.00	-19.16	peak
4		341.9786	38.98	-15.10	23.88	46.00	-22.12	peak
5		477.1694	42.49	-11.61	30.88	46.00	-15.12	peak
6	*	515.4374	41.67	-10.74	30.93	46.00	-15.07	peak

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	BLE TX 2442 Mode		
<b>Remark:</b>	Only worse case is reported		

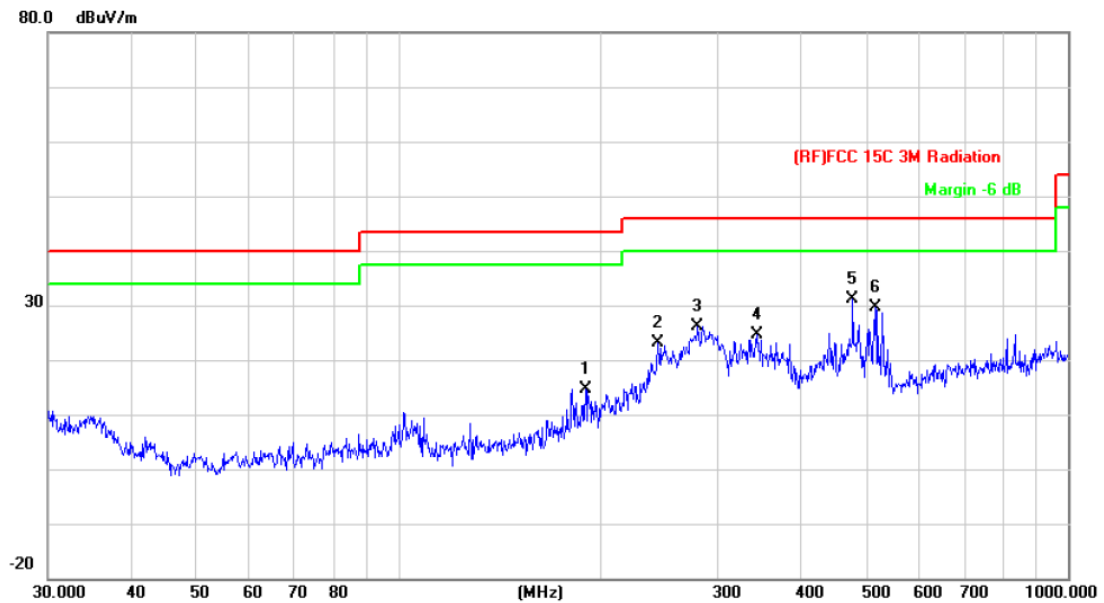


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		51.3005	42.96	-24.41	18.55	40.00	-21.45	peak
2		67.2022	44.44	-23.87	20.57	40.00	-19.43	peak
3		158.1123	35.45	-20.64	14.81	43.50	-28.69	peak
4		261.0583	36.40	-17.88	18.52	46.00	-27.48	peak
5		304.6099	36.79	-16.91	19.88	46.00	-26.12	peak
6	*	528.2458	50.54	-10.14	40.40	46.00	-5.60	peak

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	BLE TX 2480 Mode		
<b>Remark:</b>	Only worse case is reported		

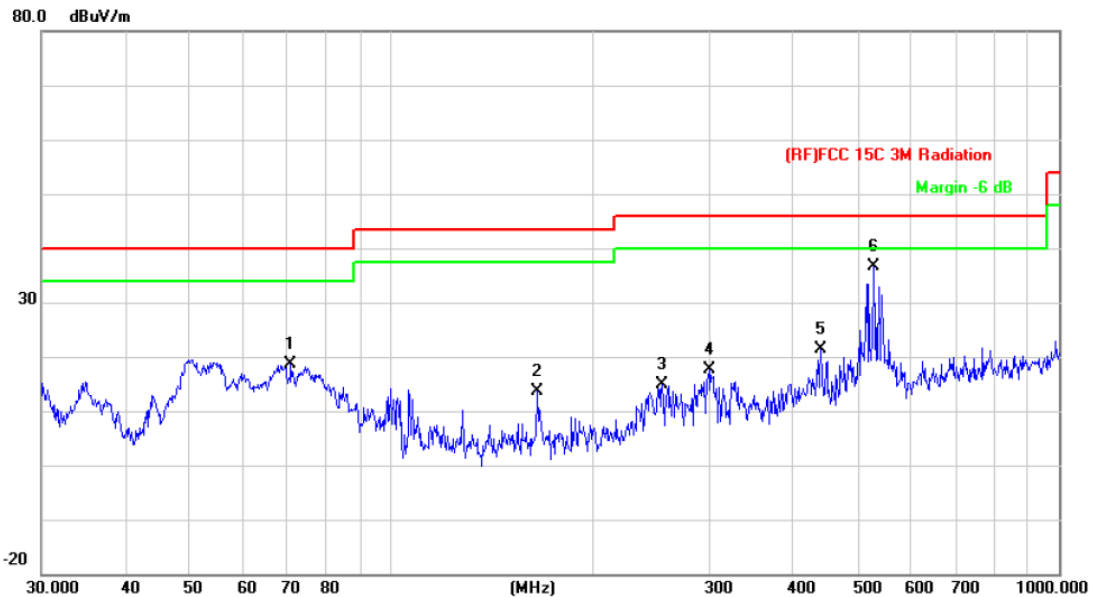


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		190.4050	35.53	-20.89	14.64	43.50	-28.86	peak
2		244.2321	41.49	-18.40	23.09	46.00	-22.91	peak
3		280.0237	43.71	-17.48	26.23	46.00	-19.77	peak
4		343.1800	39.65	-15.03	24.62	46.00	-21.38	peak
5	*	477.1694	42.70	-11.61	31.09	46.00	-14.91	peak
6		515.4374	40.27	-10.74	29.53	46.00	-16.47	peak

\*:Maximum data x:Over limit !:over margin

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	BLE TX 2480 Mode		
<b>Remark:</b>	Only worse case is reported		

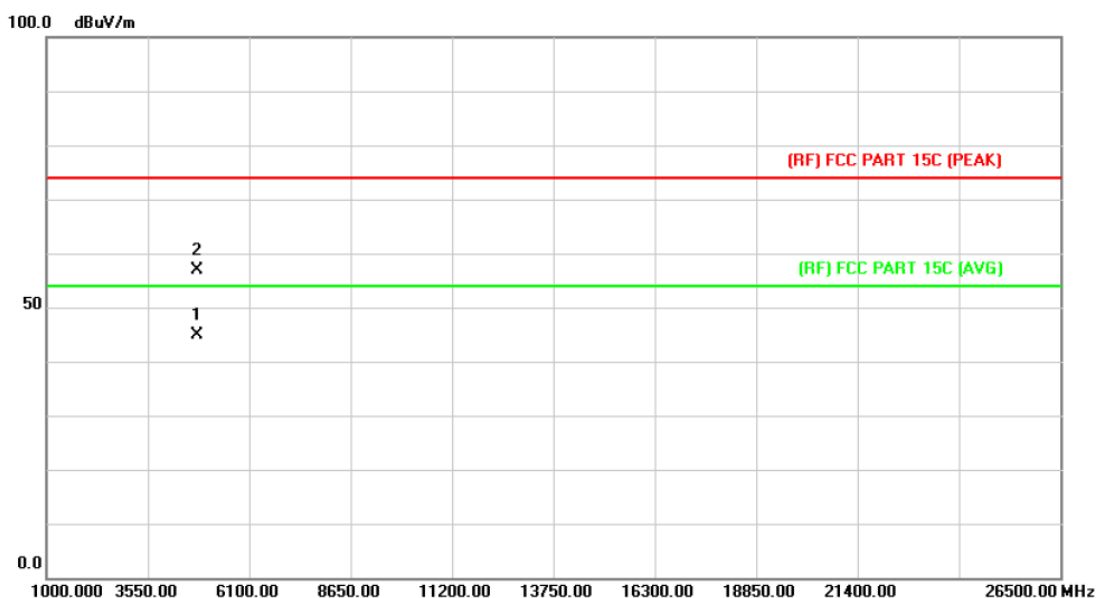


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		70.8315	42.32	-23.59	18.73	40.00	-21.27	peak
2		165.4866	34.49	-20.88	13.61	43.50	-29.89	peak
3		254.7284	32.99	-18.02	14.97	46.00	-31.03	peak
4		299.3158	34.71	-17.10	17.61	46.00	-28.39	peak
5		440.1963	34.12	-12.64	21.48	46.00	-24.52	peak
6	*	528.2458	46.83	-10.14	36.69	46.00	-9.31	peak

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

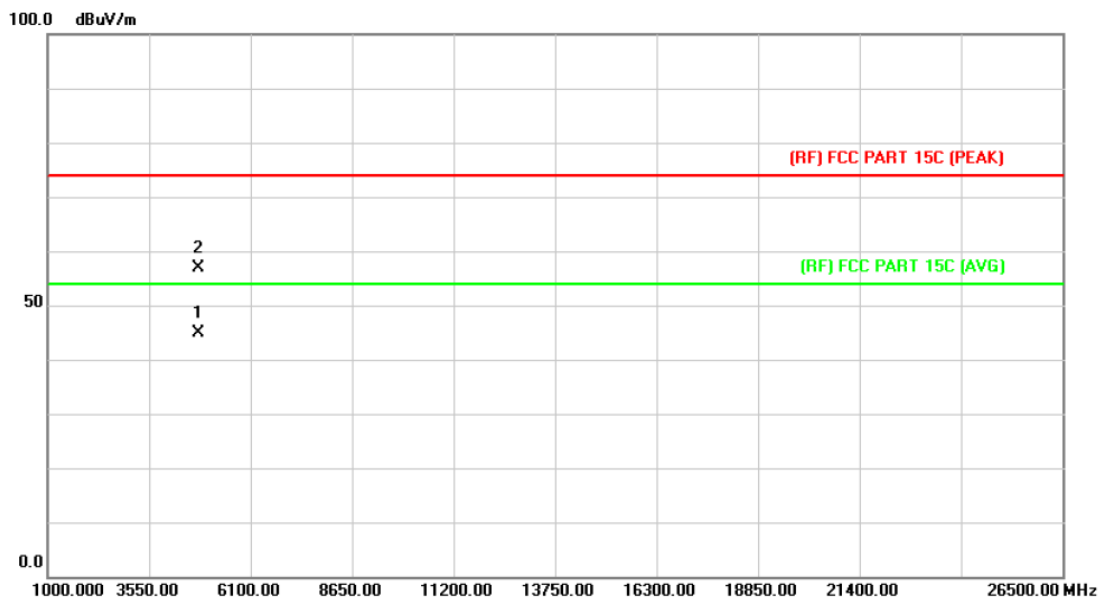
<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	BLE Mode TX 2402 MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4803.529	31.55	13.44	44.99	54.00	-9.01	AVG
2		4803.880	43.47	13.44	56.91	74.00	-17.09	peak

Emission Level= Read Level+ Correct Factor

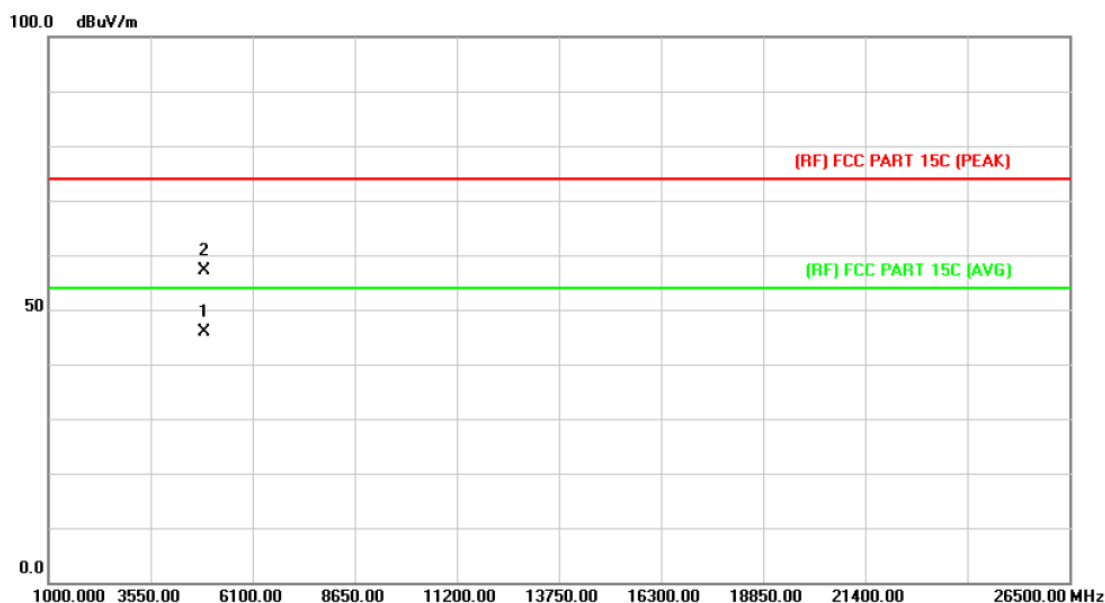
<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	BLE Mode TX 2402 MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4803.136	31.41	13.44	44.85	74.00	-29.15	peak
2	*	4804.543	43.48	13.44	56.92	74.00	-17.08	peak

Emission Level= Read Level+ Correct Factor

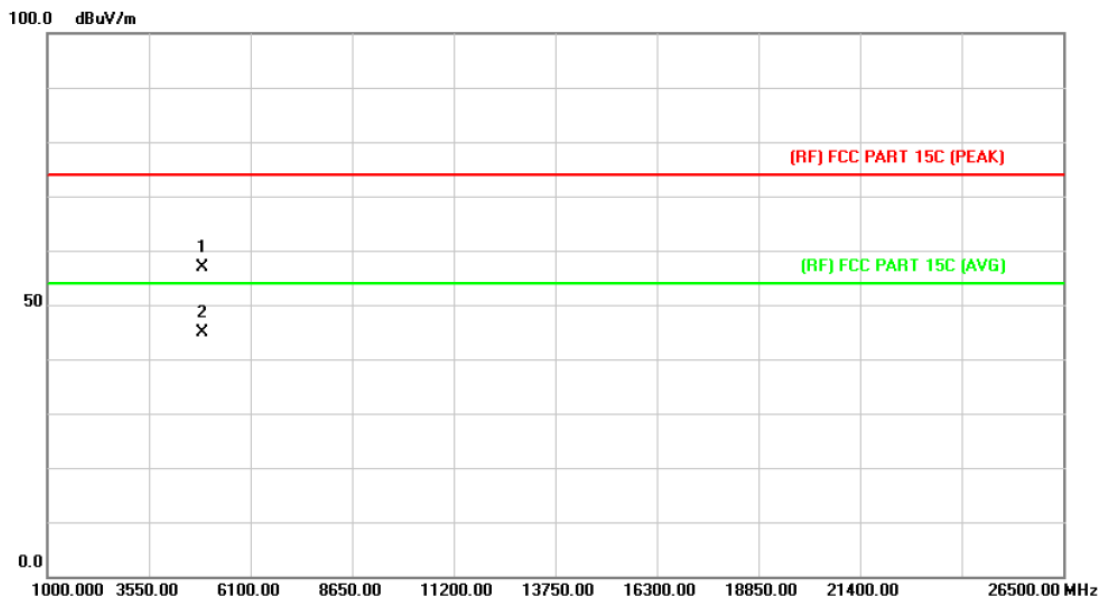
<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	BLE Mode TX 2442 MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4883.811	31.98	13.92	45.90	54.00	-8.10	AVG
2		4884.615	43.27	13.92	57.19	74.00	-16.81	peak

**Emission Level= Read Level+ Correct Factor**

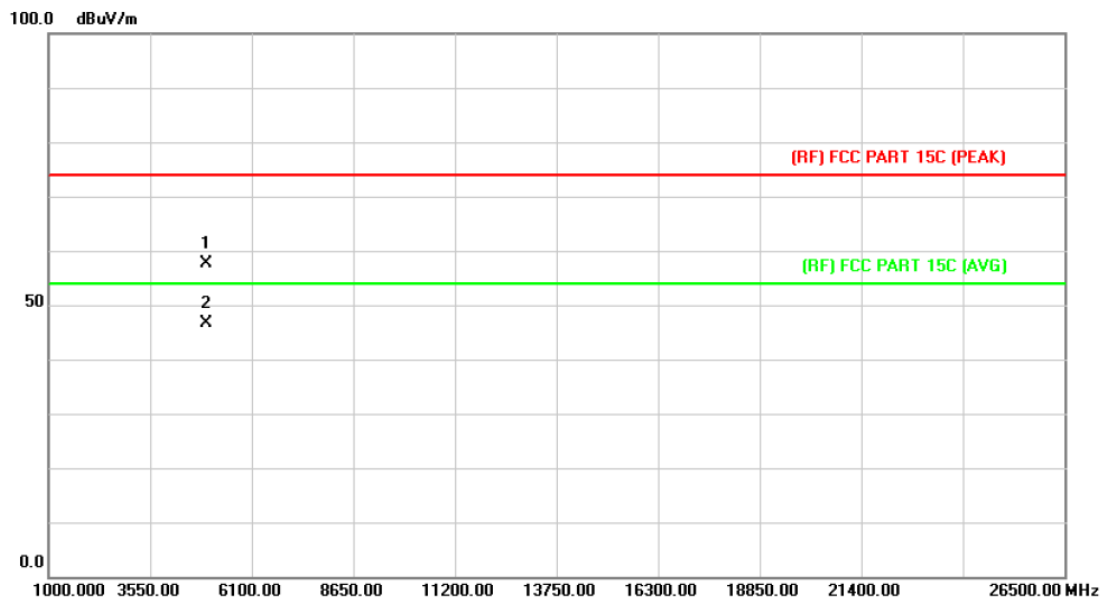
<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	BLE Mode TX 2442 MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4883.862	43.05	13.92	56.97	74.00	-17.03	peak
2	*	4883.913	30.93	13.92	44.85	54.00	-9.15	AVG

Emission Level= Read Level+ Correct Factor

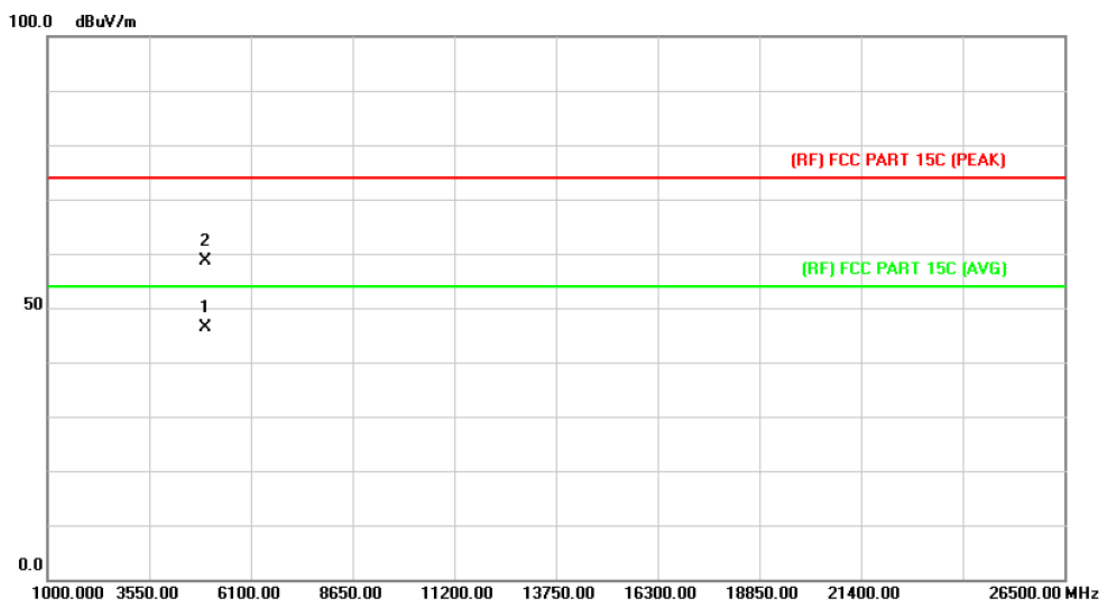
<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	BLE Mode TX 2480 MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4959.805	43.39	14.36	57.75	74.00	-16.25	peak
2	*	4961.165	32.25	14.38	46.63	54.00	-7.37	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	BLE Mode TX 2480 MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4960.141	31.92	14.36	46.28	54.00	-7.72	AVG
2		4960.288	44.26	14.36	58.62	74.00	-15.38	peak

Emission Level= Read Level+ Correct Factor

## 6. Restricted Bands Requirement

### 6.1 Test Standard and Limit

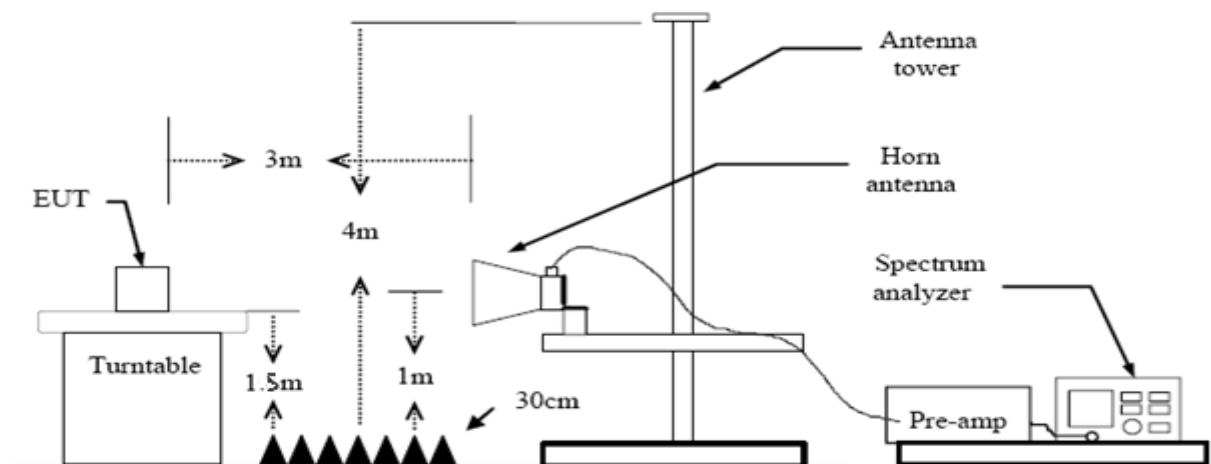
#### 6.1.1 Test Standard

FCC Part 15.209 FCC Part 15.205

#### 6.1.2 Test Limit

Restricted Frequency Band (MHz)	Class B (dBuV/m)(at 3 M)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

### 6.2 Test Setup



### 6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked

and then Quasi Peak detector mode re-measured.

- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 KHz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

#### 6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

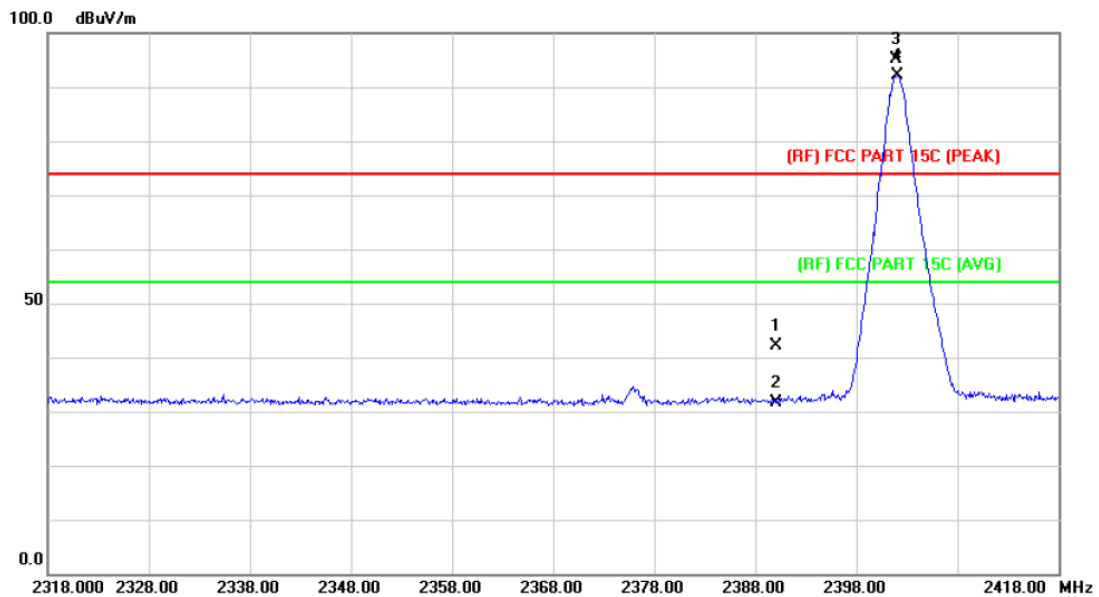
#### 6.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10kHz with Peak Detector for Average Values.

Test data please refer the following pages.

**(1) Radiation Test**

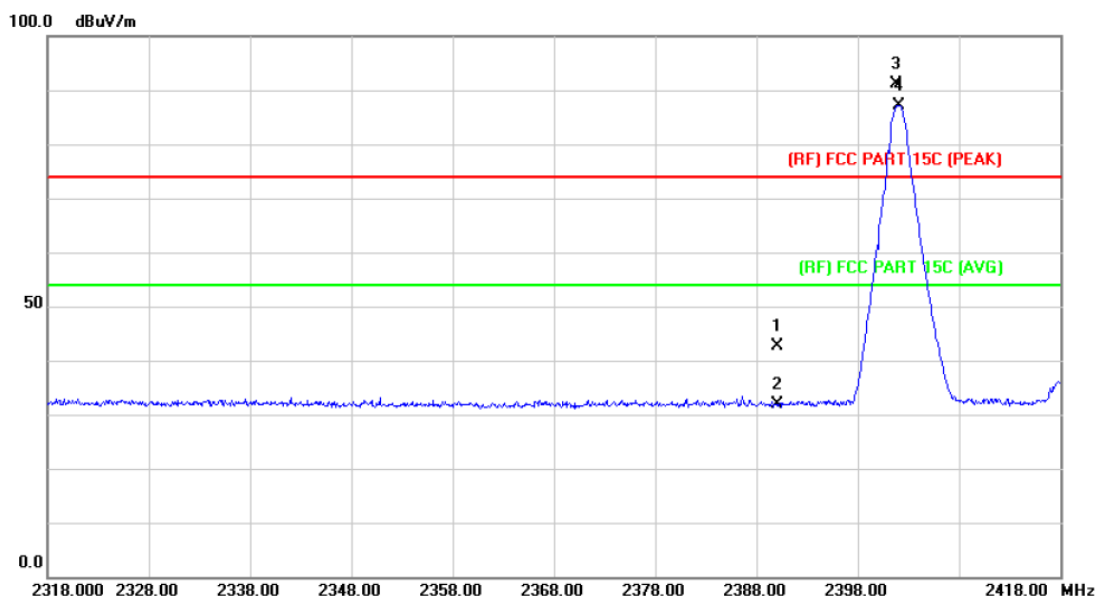
<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	BLE Mode TX 2402 MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	41.40	0.77	42.17	74.00	-31.83	peak
2		2390.000	30.88	0.77	31.65	54.00	-22.35	AVG
3	X	2401.900	94.33	0.82	95.15	Fundamental Frequency		peak
4	*	2402.100	91.34	0.82	92.16	Fundamental Frequency		AVG

**Emission Level= Read Level+ Correct Factor**

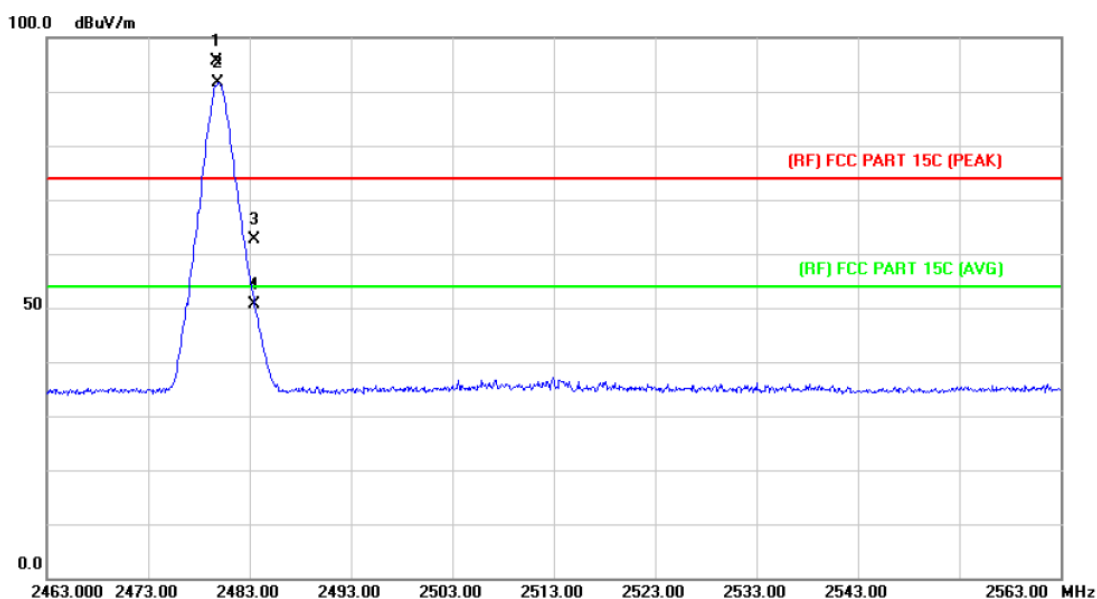
<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	BLE Mode TX 2402 MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		2390.000	41.92	0.77	42.69	74.00	-31.31 peak
2		2390.000	31.00	0.77	31.77	54.00	-22.23 AVG
3	X	2401.800	90.30	0.82	91.12	Fundamental Frequency peak	
4	*	2402.100	86.38	0.82	87.20	Fundamental Frequency AVG	

Emission Level= Read Level+ Correct Factor

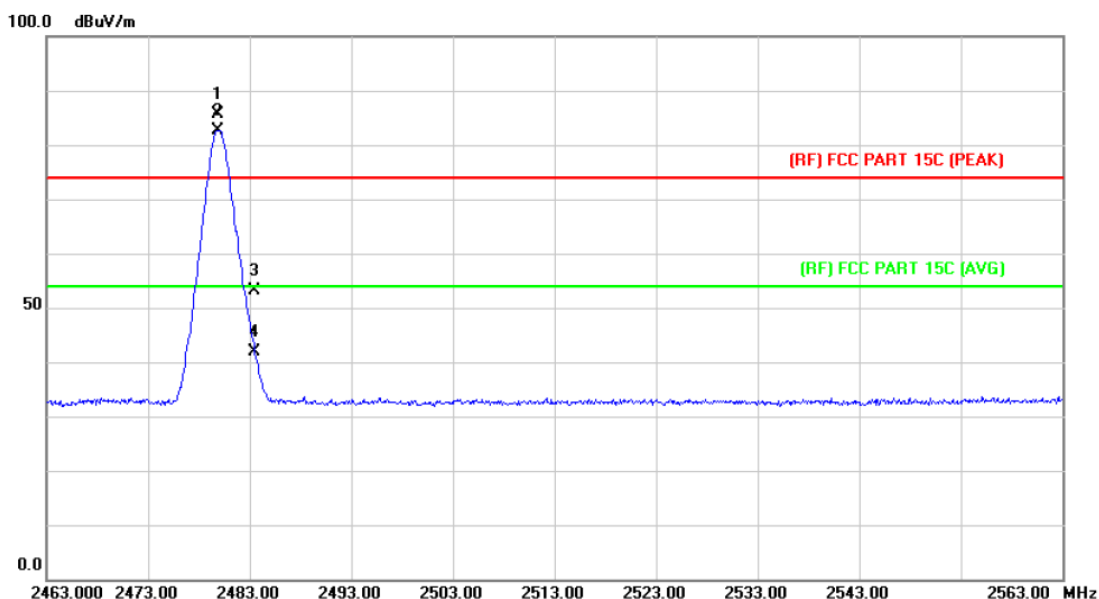
<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U0 1
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	BLE Mode TX 2480 MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2479.700	94.58	1.15	95.73	Fundamental Frequency		peak
2	*	2479.900	90.42	1.15	91.57	Fundamental Frequency		AVG
3		2483.500	61.44	1.17	62.61	74.00	-11.39	peak
4		2483.500	49.55	1.17	50.72	54.00	-3.28	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U01
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	BLE Mode TX 2480 MHz		
<b>Remark:</b>	N/A		

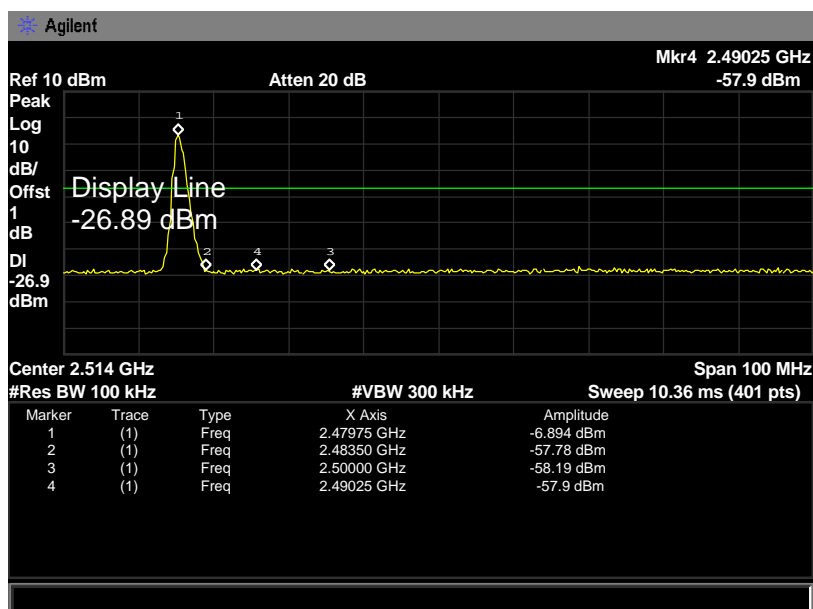
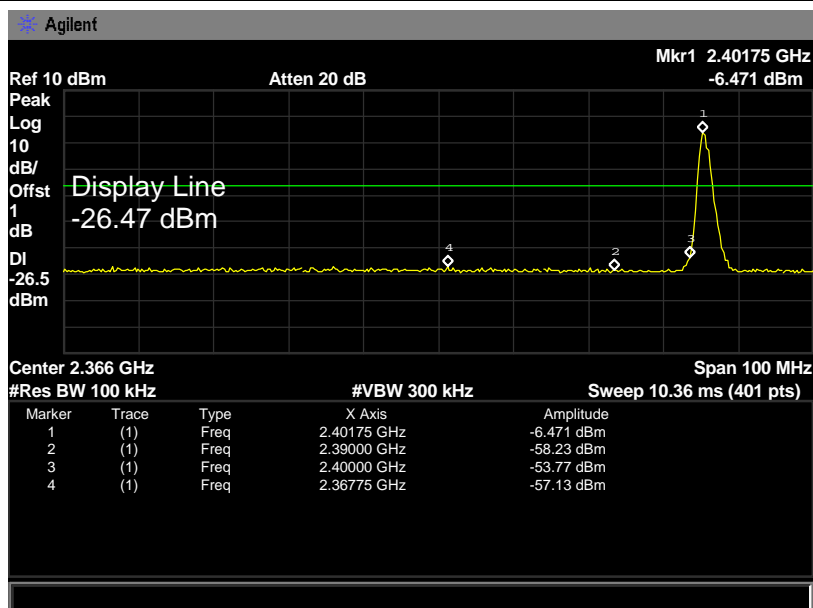


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2479.800	84.40	1.15	85.55	Fundamental Frequency		peak
2	*	2479.900	81.57	1.15	82.72	Fundamental Frequency		AVG
3		2483.500	52.04	1.17	53.21	74.00	-20.79	peak
4		2483.500	40.72	1.17	41.89	54.00	-12.11	AVG

Emission Level= Read Level+ Correct Factor

## (2) Conducted Test

EUT:	iDISPLAY TABLET	Model:	UIT313B-U01
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	BLE Mode TX 2402MHz / BLE Mode TX 2480MHz		
Remark:	The EUT is programed in continuously transmitting mode		



## 7. Bandwidth Test

### 7.1 Test Standard and Limit

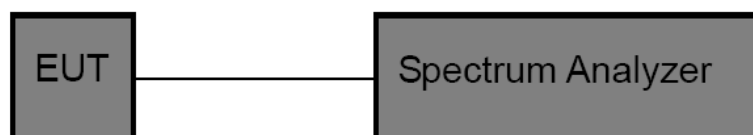
#### 7.1.1 Test Standard

FCC Part 15.247 (a)(2)

#### 7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-247		
Test Item	Limit	Frequency Range(MHz)
Bandwidth	$\geq 500$ KHz (6dB bandwidth)	2400~2483.5

### 7.2 Test Setup



### 7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst -case (i.e the widest) bandwidth.
- (3) Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

### 7.4 EUT Operating Condition

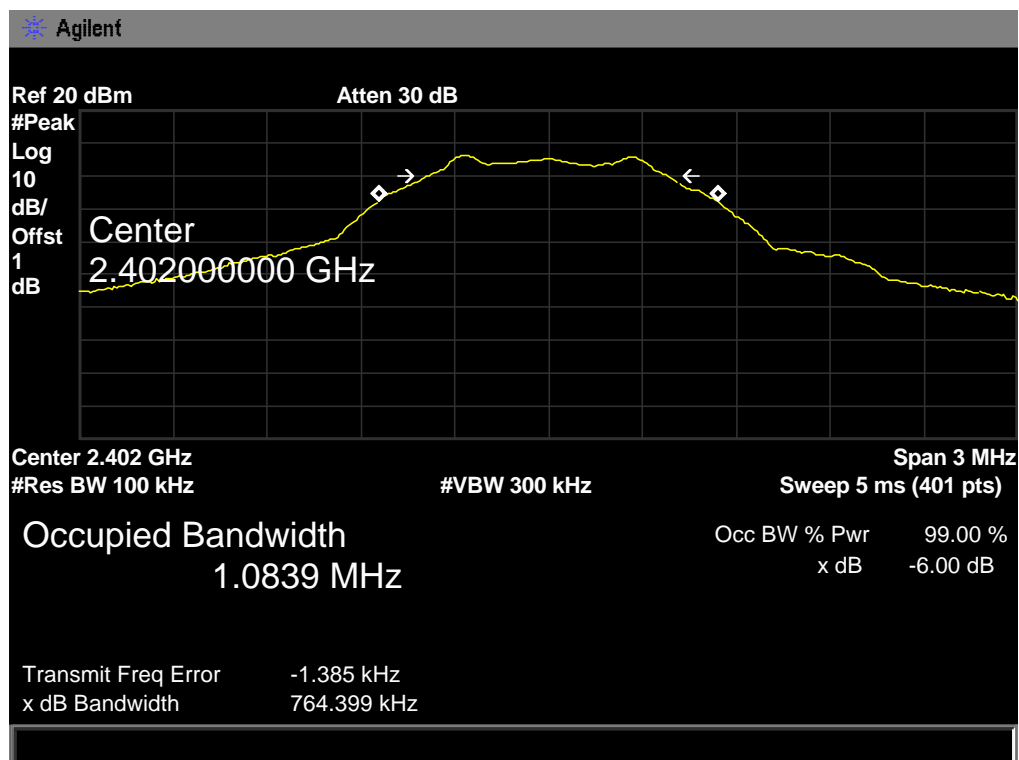
The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.

## 7.5 Test Data

EUT:	iDISPLAY TABLET	Model:	UIT313B-U01
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	BLE TX Mode		
Channel frequency (MHz)	6dB Bandwidth (kHz)	99% Bandwidth (kHz)	Limit (kHz)
2402	764.399	1083.90	>=500
2442	762.889	1086.20	
2480	762.196	1089.80	

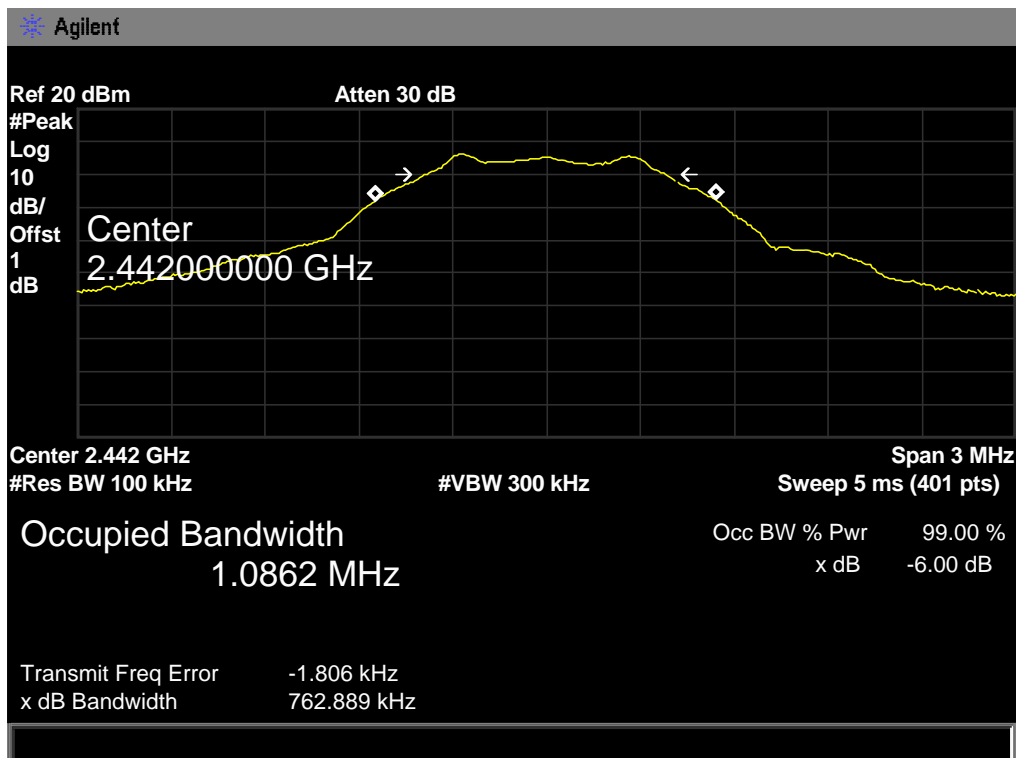
## BLE Mode

2402 MHz



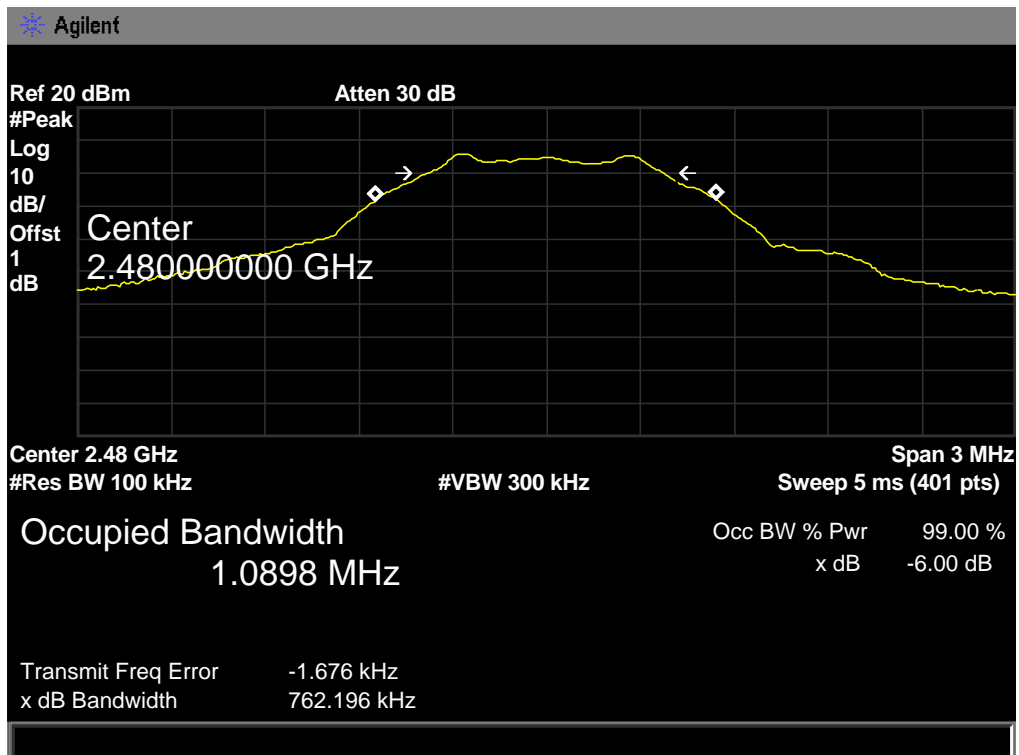
BLE Mode

2442 MHz



BLE Mode

2480 MHz



## 8. Peak Output Power Test

### 8.1 Test Standard and Limit

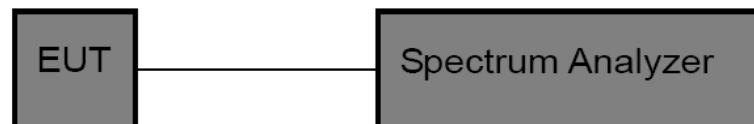
#### 8.1.1 Test Standard

FCC Part 15.247 (b)

#### 8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-247		
Test Item	Limit	Frequency Range(MHz)
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

### 8.2 Test Setup



### 8.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to section 9.1.1 of KDB 558074 D01 DTS Meas Guidance v03r03.

- (1) Set the  $RBW \geq DTS$  Bandwidth
- (2) Set  $VBW \geq 3 * RBW$
- (3) Set  $Span \geq 3 * RBW$
- (4) Sweep time=auto
- (5) Detector= peak
- (6) Trace mode= maxhold.
- (7) Allow trace to fully stabilize, and then use peak marker function to determine the peak amplitude level.

### 8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

## 8.5 Test Data

EUT:	iDISPLAY TABLET	Model:	UIT313B-U01
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	BLE TX Mode		
Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)	
2402	-6.092	30	
2442	-6.316		
2480	-6.641		
BLE Mode			
2402 MHz			

Agilent

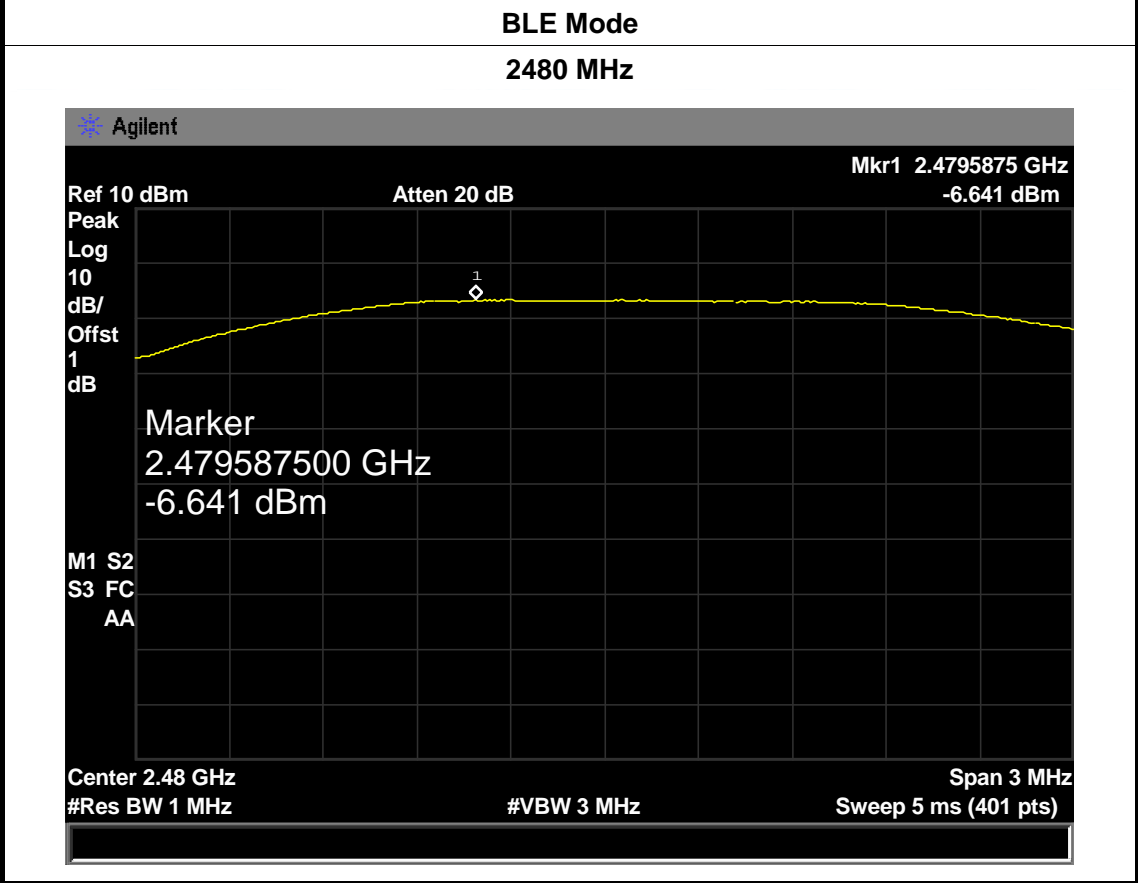
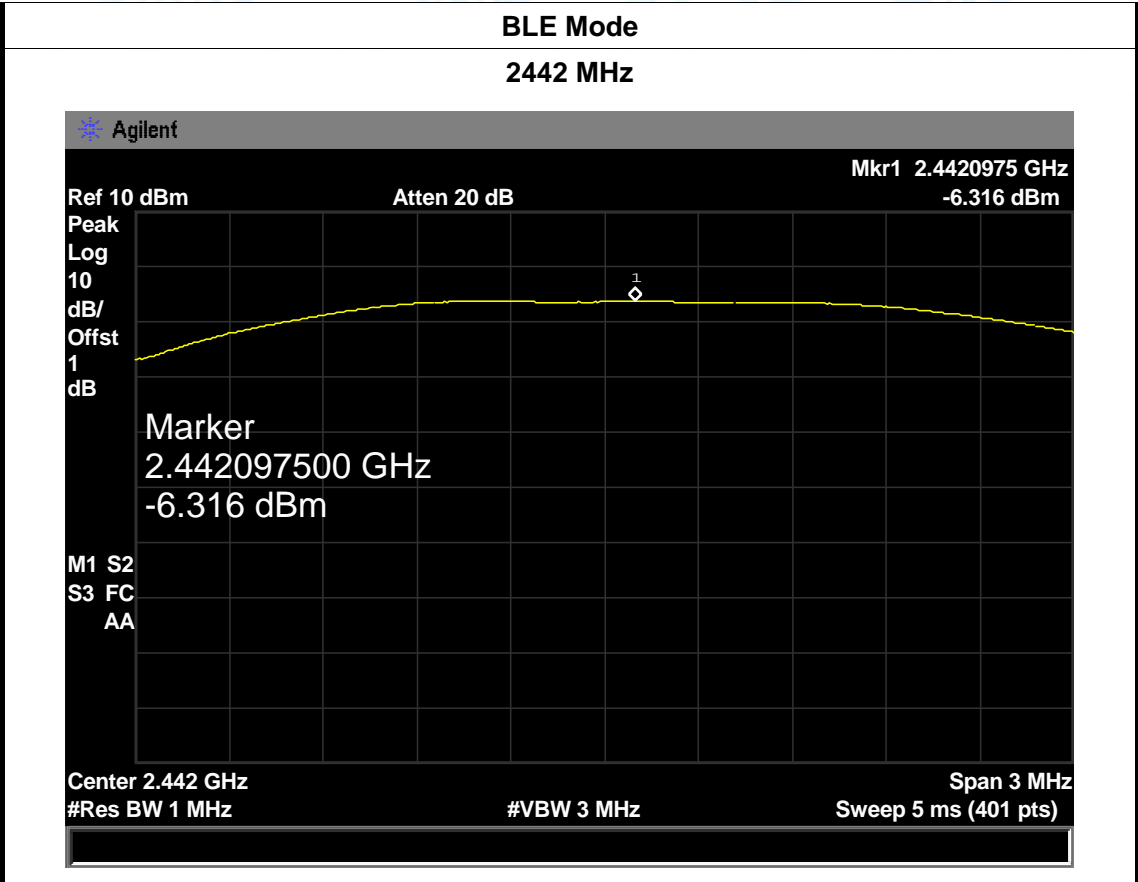
Ref 10 dBmAtten 20 dBMkr1 2.4020825 GHz-6.092 dBm

PeakLog10 dB/Offst1 dB

Marker2.402082500 GHz-6.092 dBm

M1 S2S3 FC AA

Center 2.402 GHzSpan 3 MHz#Res BW 1 MHz#VBW 3 MHzSweep 5 ms (401 pts)



## 9. Power Spectral Density Test

### 9.1 Test Standard and Limit

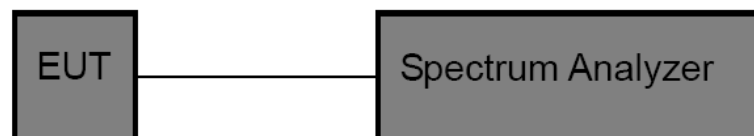
#### 9.1.1 Test Standard

FCC Part 15.247 (e)

#### 9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

### 9.2 Test Setup



### 9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v03r03.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequencyc.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz
- (5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

### 9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Midle and high channel for the test.

## 8.5 Test Data

EUT:	iDISPLAY TABLET	Model:	UIT313B-U01
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	BLE TX Mode		
Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)	
2402	-23.73	8	
2442	-23.78		
2480	-23.94		
BLE Mode			
2402 MHz			

Agilent

Ref 10 dBm

Peak

Log

10

dB/

Offst

1

dB

Marker

2.401772875 GHz

-23.73 dBm

M1 S2

S3 FC

AA

Center 2.402 GHz

#Res BW 3 kHz

#VBW 10 kHz

Span 1.15 MHz

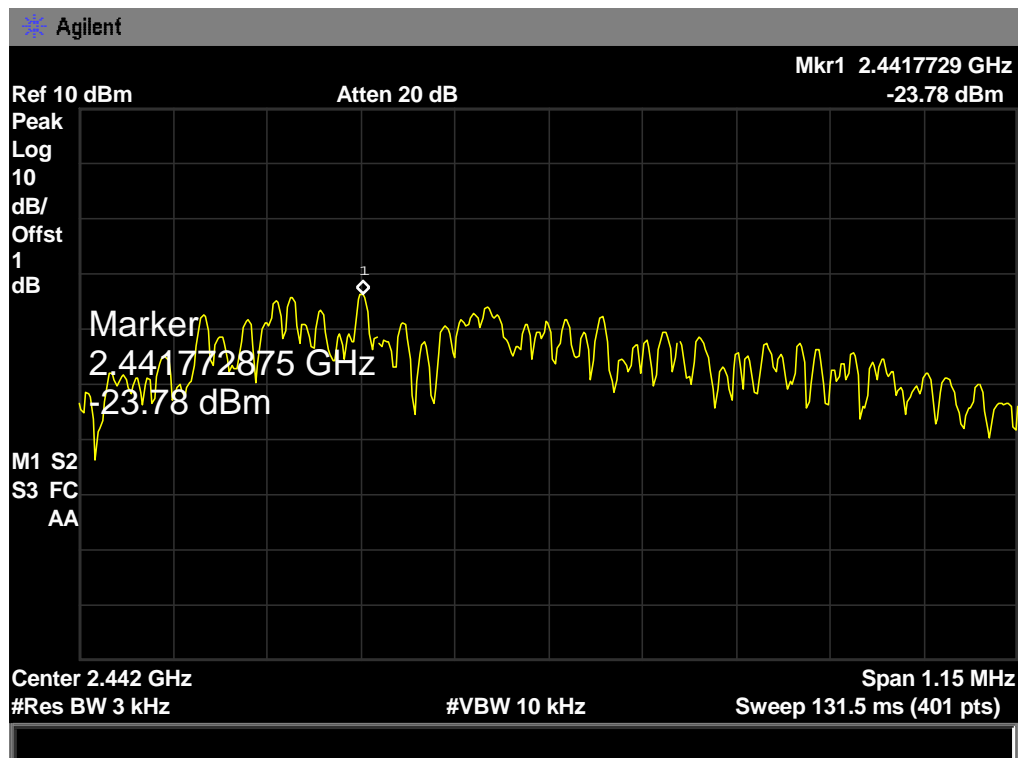
Sweep 131.5 ms (401 pts)

Mkr1 2.4017729 GHz

-23.73 dBm

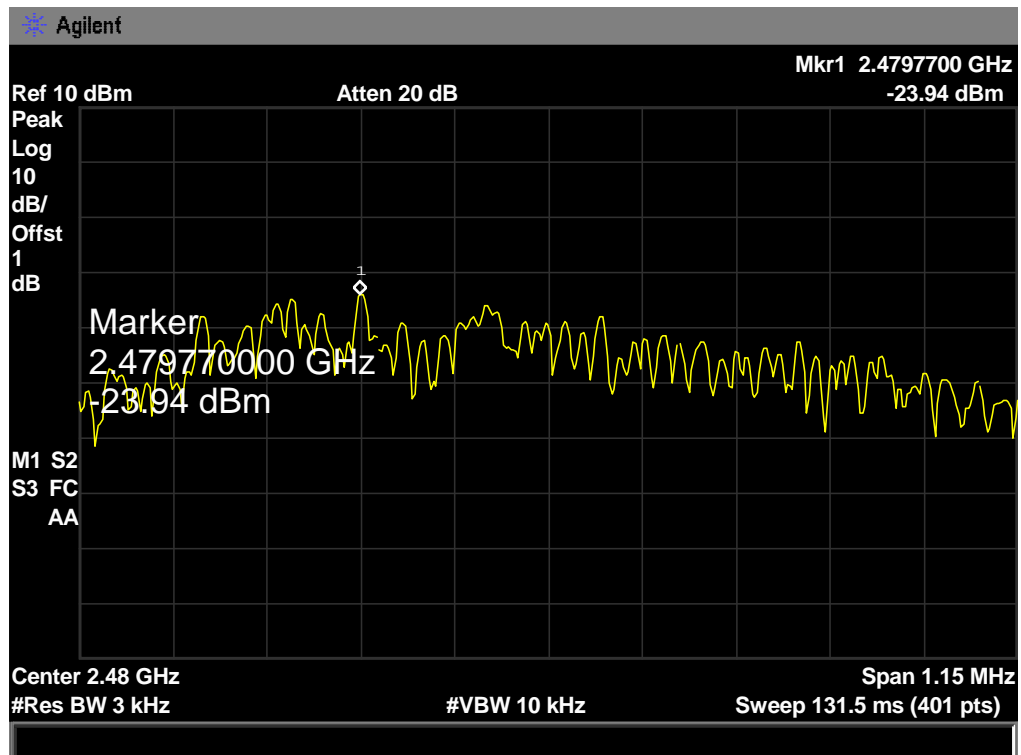
BLE Mode

2442 MHz



BLE Mode

2480 MHz



## 10. Antenna Requirement

### 10.1 Standard Requirement

#### 10.1.1 Standard

FCC Part 15.203

#### 10.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 1.66 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

### 10.3 Result

The EUT antenna is an FPC Antenna. It complies with the standard requirement.

Antenna Type
<input checked="" type="checkbox"/> Permanent attached antenna
<input type="checkbox"/> Unique connector antenna
<input type="checkbox"/> Professional installation antenna