

# Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC147492

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# FCC Radio Test Report FCC ID: 2AC8G-UITAS

#### **Class II Permissive Change**

Report No. : TB-FCC147492

**Applicant**: Outform Ltd.

**Equipment Under Test (EUT)** 

**EUT Name**: iDISPLAY TABLET

Model No. : UIT313B-U02

Series No. : Please see the page of 3

Brand Name : ContextMedia Health

**Receipt Date** : 2016-04-05

**Test Date** : 2016-04-06 to 2016-04-10

**Issue Date** : 2016-04-11

**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

Approved&

**Authorized** 



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.

TB-RF-074-1.0



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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)

EUT Name	:	iDISPLAY TABLET	
Models No.	*	UIT413X-XYY, UIT243X UIM400X-XYY (The 1st	U01, UIT313X-XYY, UIT305X-XYY, -XYY, UIT410X-XYY, UIT407X-XYY, X is A-Z represents the software version; The the color, YY is client number from "01" to "50".)
Model Difference	•		uitry design, PCB layout, electrical components functions, only different on color.
Product Description		Operation Frequency: BLE: 2402MHz~2480MH WIFI 802.11b/g/n(H20): 3 802.11n(H40): 242 Number of Channel: RF Output Power: Antenna Gain: Modulation Type: Bit Rate of Transmitter:	2412MHz~2462MHz
Power Supply	÷	DC power supplied by A	C/DC Adapter.
Power Rating		Input: AC 100~240V 50/0 Output: 5V 2.5A.	60Hz 0.6A Max.
Connecting I/O Port(S)		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 v03r04.
- (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



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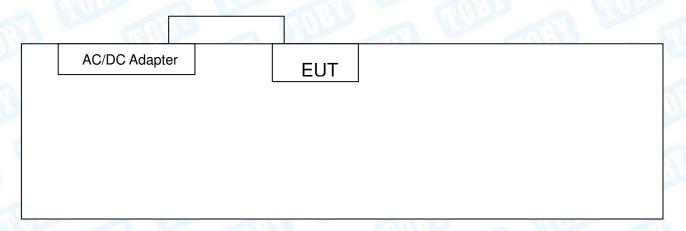
function, and recorded in the separate test report.

- (3) Antenna information provided by the applicant.
- (4) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	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	20	2442	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	39	2480
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.



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#### 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.



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#### 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 <sub>Lab</sub> )
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Dedicted Emission	Level Accuracy:	14 CO dD
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy:	±4.40 dB
hadiated Ellission	30MHz to 1000 MHz	±4.40 db
Dadiated Emission	Level Accuracy:	±4.20 dB
Radiated Emission	Above 1000MHz	±4.20 UB



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#### 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.



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# 2. Test Summary

	FCC Par	t 15 Subpart C(15.247)/RSS 247	Issue 1		
Standa	rd Section	Tool How		Damark	
FCC IC		Test Item	Judgment	Remark	
15.203	1	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 Note(3)	
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A Note(3)	
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A Note(3)	
15.247(d)	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A	

Note (1): "/" for no requirement for this test item.

<sup>(2):</sup> N/A is an abbreviation for Not Applicable.

<sup>(3):</sup> This report is Class II change report for the original equipment have changed, the transmitter module itself has not changed. More information about the test data please refer to the original test report.



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# 3. Test Equipment

Conducte	d Emission Te	est			
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. 08, 2015	Aug. 07, 2016
					Date
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due
Spectrum	Agilent	E4407B	MY45106456	Aug. 29, 2015	Aug. 28, 2016
Analyzer	, ignorit	211072		7.tag. 20, 2010	7 tag. 20, 20 re
EMI Test Receiver	Rohde & Schwarz	ESCI	100010/007	Aug. 07, 2015	Aug. 06, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 26, 2016	Mar. 25, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 26, 2016	Mar. 25, 2017
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 26, 2016	Mar. 25, 2017
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 26, 2016	Mar. 25, 2017
Pre-amplifier	Sonoma	310N	185903	Mar. 26, 2016	Mar. 25, 2017
Pre-amplifier	HP	8447B	3008A00849	Mar. 26, 2016	Mar. 25, 2017
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 26, 2016	Mar. 25, 2017
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A



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# 4. Conducted Emission Test

#### 4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

#### 4.1.2 Test Limit

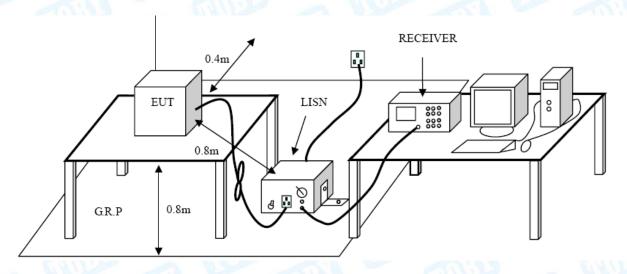
#### **Conducted Emission Test Limit**

The sum of	Maximum RF Line Voltage (dBμV)		
Frequency	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.



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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.



7	10	T	77
		IK	Υ
-	. U	_	

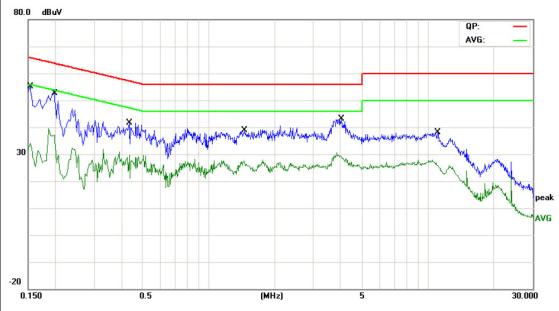
UT:	iDISPLAY TABLE	T M	lodel Name :		UIT313	3B-U02
emperature:	25 ℃	R	elative Humi	dity:	55%	A Brief
est Voltage:	AC 120V/60Hz			Cal	1133	
erminal:	Line	DAO:		6		
est Mode:	AC Charging with	TX BLE Mo	ode 2402MHz		a V	Hills
Remark:	Only worse case i	s reported			33	
80.0 dBuV						
30	The the state of the second se	politika pol	al more and the second of the	and filler and freeze freeze	QP: AVG:	pea AVI
0.150	0.5	(MHz)	5			30.000
No. Mk.	Reading Freq. Level	Correct Factor	Measure- ment	Limit	Over	
	MHz dBuV	dB	dBu∀	dBu∀	dB	Detector
1 * 0.	1500 42.65	9.92	52.57	35.99	-13.42	
					10.12	QP
2 0.	1500 26.92	9.92	36.84		-19.15	
	1500 26.92 1874 40.17	9.92 9.99		55.99		
3 0.			50.16	55.99 64.15	-19.15	AVG QP
3 0. 4 0.	1874 40.17	9.99	50.16 ( 34.59	55.99 64.15 54.15	-19.15 -13.99	AVG QP
3 0. 4 0. 5 0.	1874 40.17 1874 24.60	9.99 9.99	50.16 (34.59 (38.43 (	55.99 64.15 54.15 56.00	-19.15 -13.99 -19.56	AVG QP AVG QP
3 0. 4 0. 5 0. 6 0.	1874 40.17 1874 24.60 5260 28.40	9.99 9.99 10.03	50.16 (34.59 (38.43 (27.98 (4.59 (4.	55.99 64.15 54.15 56.00 46.00	-19.15 -13.99 -19.56 -17.57	AVG QP AVG QP
3 0. 4 0. 5 0. 6 0. 7 1.	1874 40.17 1874 24.60 5260 28.40 5260 17.95	9.99 9.99 10.03 10.03	50.16 (34.59 (38.43 (27.98 433.25 (38.43 (39.43 (49.43 (49.43 (49.43 (49.43 (49.43 (49.43 (49	55.99 64.15 54.15 56.00 46.00 56.00	-19.15 -13.99 -19.56 -17.57 -18.02	AVG QP AVG QP AVG
3 0. 4 0. 5 0. 6 0. 7 1. 8 1.	1874 40.17 1874 24.60 5260 28.40 5260 17.95 5700 23.19	9.99 9.99 10.03 10.03 10.06	50.16 (34.59 (38.43 (27.98 (33.25 (23.88 (4.59 (	55.99 64.15 54.15 56.00 46.00 56.00	-19.15 -13.99 -19.56 -17.57 -18.02 -22.75	AVG QP AVG QP AVG
3 0. 4 0. 5 0. 6 0. 7 1. 8 1. 9 3.	1874 40.17 1874 24.60 5260 28.40 5260 17.95 5700 23.19 5700 13.82	9.99 9.99 10.03 10.03 10.06	50.16 34.59 38.43 27.98 33.25 23.88 35.93	55.99 64.15 54.15 56.00 46.00 56.00	-19.15 -13.99 -19.56 -17.57 -18.02 -22.75 -22.12	AVG QP AVG QP AVG QP AVG
3 0. 4 0. 5 0. 6 0. 7 1. 8 1. 9 3.	1874     40.17       1874     24.60       5260     28.40       5260     17.95       5700     23.19       5700     13.82       9740     25.94	9.99 9.99 10.03 10.03 10.06 10.06 9.99	50.16 34.59 38.43 27.98 33.25 23.88 35.93 28.27	55.99 64.15 54.15 56.00 46.00 56.00 46.00	-19.15 -13.99 -19.56 -17.57 -18.02 -22.75 -22.12 -20.07	AVG QP AVG QP AVG QP AVG





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	EUT:	iDISPLAY TABLET	Model Name :	UIT313B-U02
	Temperature:	25 ℃	Relative Humidity:	55%
	Test Voltage:	AC 120V/60Hz	31 - 0	
Ì	Terminal:	Neutral		
d	Test Mode:	AC Charging with TX BLE	Mode 2402MHz	
	Remark:	Only worse case is reported	ed	
	97 (65 P 1988) - 1865 - 1665 -			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector
1		0.1539	35.75	10.12	45.87	65.78	-19.91	QP
2		0.1539	20.53	10.12	30.65	55.78	-25.13	AVG
3	*	0.1980	38.34	10.12	48.46	63.69	-15.23	QP
4		0.1980	24.15	10.12	34.27	53.69	-19.42	AVG
5		0.4340	25.17	10.04	35.21	57.18	-21.97	QP
6		0.4340	15.60	10.04	25.64	47.18	-21.54	AVG
7		1.4620	23.59	10.11	33.70	56.00	-22.30	QP
8		1.4620	16.18	10.11	26.29	46.00	-19.71	AVG
9		4.0300	25.95	10.06	36.01	56.00	-19.99	QP
10		4.0300	17.59	10.06	27.65	46.00	-18.35	AVG
11		11.0219	20.82	10.14	30.96	60.00	-29.04	QP
12		11.0219	14.78	10.14	24.92	50.00	-25.08	AVG

<sup>:</sup>Maximum data x:Over limit !:over margin



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UT:	iDISPI	LAY TABLE	T	Model Nan	ne :	UIT31	3B-U02
Temperature:	25 ℃		J 10	Relative H	umidity:	55%	
Test Voltage:	AC 24	0V/60Hz		a GHI		1	A Property
Terminal:	Line	1	THE PARTY		THE	Call of	
Test Mode:	AC Ch	narging with	TX BLE Mo	de 2402MH	7	6	MIN
Remark:	Only v	vorse case i	s reported	MILLION STREET		A V	
30		hydely and head and an angelik		A CONTRACTOR AND A CONT		QP: AVG:	bull had pea
0.150	0.5	Reading	(MHz)	5 Measure-	Limit	Over	30.000
No. Mk.	Freq.	Level dBuV	Factor dB	ment dBuV	dBu∀	dB	Detector
1 * 0	0.1780	40.72	10.12	50.84		-13.73	QP
	0.1780	26.46	10.12	36.58		-17.99	AVO
	0.2460	37.53	10.10	47.63	61.89		QP
	0.2460	25.71	10.10	35.81	51.89		AVO
	0.4820	31.77	10.03	41.80	56.30		QP
	0.4820	21.94	10.03	31.97	46.30		AVG
	1.7780	26.42	10.08	36.50	56.00		QP
	1.7780	18.05	10.08	28.13	46.00		AVG
	3.9740	29.37	10.06	39.43	56.00 -		QP
	3.9740	20.97	10.06	31.03	46.00 -		AVG
	7.3940	25.02	10.07	35.09	60.00		QP
11 /	7.3940	18.69	10.07	28.76	50.00 -		AVC





EUT:	iDISPI	AY TABLE	T	Model Nan	ne:	UIT31	3B-U02
Temperature:	25 ℃		a VB	Relative H	umidity:	55%	
Test Voltage:	AC 24	0V/60Hz		a PHU		1	Arra
Terminal:	Neutra	al			GII		-
Test Mode:	AC Ch	arging with	TX BLE Mo	ode 2402MH	Z	6	
Remark:	Only v	vorse case	is reported	MILLER		a V	
30 dBuV		Maddle of the state of the stat	LANDER CONTRACTOR	agarles de Marque Comos	A Commission of the Commission	QP: AVG:	peak
-20	0.5	Reading	(MHz) Correct	5 Measure-			30.000
No. Mk.	Freq.	Level	Factor	ment	Limit	Over	
	MHz	dBu∨	dB	dBuV	dBu√	dB	Detector
	0.1660	40.78	10.12	50.90	65.15		QP
	0.1660	22.44	10.12	32.56	55.15		AVG
	0.1965	38.58	10.12	48.70	63.75		QP
	0.1965	23.43	10.12	33.55	53.75		AVG
	0.2380	35.58	10.11	45.69	62.16		QP
	0.2380	22.07	10.11	32.18	52.16		AVG
	1.3860	26.98	10.12	37.10	56.00		QP AVG
	1.3860 3.9540	17.70 29.02	10.12	27.82 39.08	46.00 56.00		QP
	3.9540	20.43	10.06	39.08	46.00		AVG
	3.2100	23.90	10.00	34.00	60.00		QP
	3.2100	17.68	10.10	27.78	50.00		AVG
*:Maximum data x		over margin  evel+ Corr	ect Factor				



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

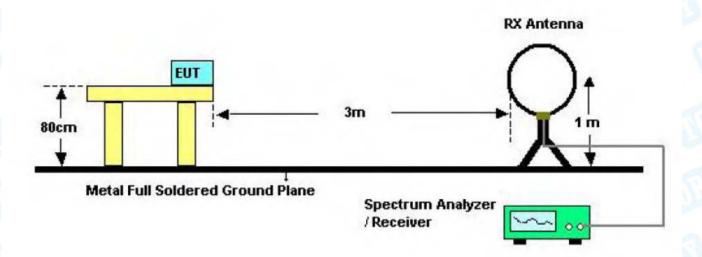
#### Note:

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

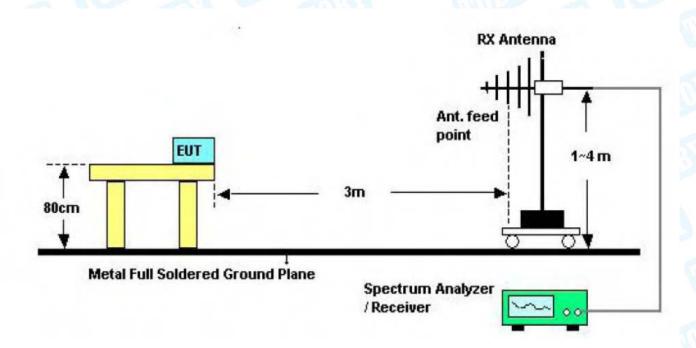


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# 5.2 Test Setup



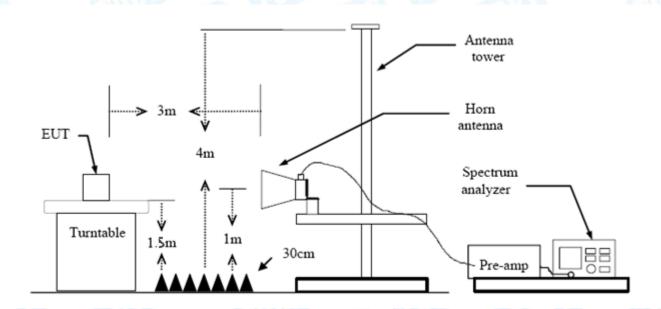
Below 30MHz Test Setup



Below 1000MHz Test Setup



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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.



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# 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.





UT:	iDISP	LAY TABLE		Model:		UIT31	3B-00
emperature:	25 ℃		33	Relative H	umidity:	55%	The same
est Voltage:	AC 12	20V/60Hz			TIE	13.9	
Ant. Pol.	Horizo	ontal	AHO.		62		
est Mode:	st Mode: BLE TX 2402 Mode			Will De		2 MA	Mess
Remark:	Only v	vorse case	is reported		CITE S	3	
80.0 dBuV/m							
					(RF)FCC 150	3M Radiation	
						Margin -6	dB
30		_		_	5	3	5 *
90				4 *	¥	Na its	
				. Alter	.i.   1	100 . (12)	March Library
May Markety and the second	Myn ffthway park	2 14/14/14/14/14/14/14/14/14/14/14/14/14/1	"VALLAHAN MAHAM"	Complete Market	Who we provided the state of th	Janah Laterapy Tyaff	Myzatskylyn
20 30.000 40 50	60 70	2	3 X VANANANANANANANANANANANANANANANANANANAN	300	400 500		1000.00
20		80	(MHz)	300			
20 30.000 40 50		LAMENT WILLIAM					
20 30.000 40 50 No. Mk. Fi	60 70	80 Reading	(MHz)	300 Measure-	400 500	600 700	
20 30.000 40 50 No. Mk. Fr	60 70 req.	Reading Level	(MHz) Correct Factor	Measure- ment	400 500 Limit	600 700 Over	1000.00
20 30.000 40 50 No. Mk. Fr	60 70 req.	Reading Level	(MHz)  Correct Factor  dB/m	Measure- ment dBuV/m	400 500  Limit  dBuV/m	Over	1000.00
No. Mk. Fr. M. 1 35.3 2 99.5	req.  IHz	Reading Level dBuV 30.72	Correct Factor dB/m -17.29	Measure- ment dBuV/m	400 500  Limit  dBuV/m  40.00	Over dB -26.57	Detector peak
No. Mk. From 1 35.3 2 99.5 3 136.	req.  Hz  3750	Reading Level  dBuV 30.72 34.02	Correct Factor dB/m -17.29 -21.86	Measure- ment dBuV/m 13.43 12.16	400 500  Limit  dBuV/m  40.00  43.50	Over dB -26.57 -31.34	Detector peak peak
No. Mk. From 1 35.3 2 99.5 3 136. 4 269.	req.  IHz  3750 5281 9391	Reading Level  dBuV 30.72 34.02 37.18	(MHz)  Correct Factor  dB/m -17.29 -21.86 -22.04	300 Measure- ment dBuV/m 13.43 12.16 15.14	400 500  Limit  dBuV/m  40.00  43.50  43.50	Over dB -26.57 -31.34 -28.36	Detector peak



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		M		
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		IDISP	LAY TABLE		Model:		UIT313B-L	JU2
Temperature:		25 ℃	CIN'	33	Relative Hun	nidity:	55%	The same
est Vol	tage:	AC 12	20V/60Hz		2.1	CI	1,33	
nt. Pol		Vertic	al	AND		1 63	- T	M
est Mo	st Mode: BLE TX 2402 Mode				A lister			
Remark	:	Only v	worse case	is reported	b	CITI'S	19	
80.0 dBu\	V/m							
30	Ne Mary Marie	, And A	ANNAMA (M. M.	3 X	har Mahanan Andrah	(RF)FCC	15C 3M Radiation Margin -6 5 6 X	
20	V ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	<b>*</b> /****		- 1 <b>V</b> 1 1/2"				
30.000	40 50	60 70	80	(MHz)	300	400 5	500 600 700	1000.00
		<b>*</b> /*-/		(MHz)  Correct Factor	2007/2009	400 5	000 600 700 Over	1000.00
30.000	Mk. Fr	60 70	80 Reading	Correct	Measure-	***************************************	Over	1000.00
30.000	Mk. Fr	60 70 req.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
30.000 No. 1	Mk. Fr M 35.0	60 70 req.	Reading Level	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over	Detecto
30.000 No. I	Mk. Fr M 35.0 74.3	60 70 Feq. Hz	Reading Level  dBuV  41.73	Correct Factor dB/m -17.06	Measure- ment dBuV/m 24.67	Limit dBuV/m	Over  dB  -15.33  -20.60	Detector peak
No. I	Mk. Fr 35.0 74.3 163.	60 70  req.  Hz  0048  3955  7550	Reading Level  dBuV  41.73  42.86	Correct Factor dB/m -17.06 -23.46 -20.76	Measure- ment dBuV/m 24.67 19.40 22.34	Limit dBuV/m 40.00 40.00	Over  dB  -15.33  -20.60  -21.16	Detector peak peak peak
No. I	Mk. Fr 35.0 74.3 163.2	60 70  eq. Hz 0048 3955 7550 0482	Reading Level  dBuV  41.73  42.86  43.10  48.78	Correct Factor dB/m -17.06 -23.46 -20.76 -19.96	Measure- ment dBuV/m 24.67 19.40 22.34 28.82	Limit  dBuV/m  40.00  40.00  43.50  43.50	Over  dB  -15.33  -20.60  -21.16  -14.68	Detector peak peak peak
No. I	Mk. Fr 35.0 74.3 163. 210.0	60 70  req.  Hz  0048  3955  7550	Reading Level  dBuV  41.73  42.86  43.10	Correct Factor dB/m -17.06 -23.46 -20.76	Measure- ment dBuV/m 24.67 19.40 22.34	Limit  dBuV/m  40.00  40.00  43.50	Over  dB  -15.33  -20.60  -21.16  -14.68	Detector peak peak peak

TB-RF-074-1.0



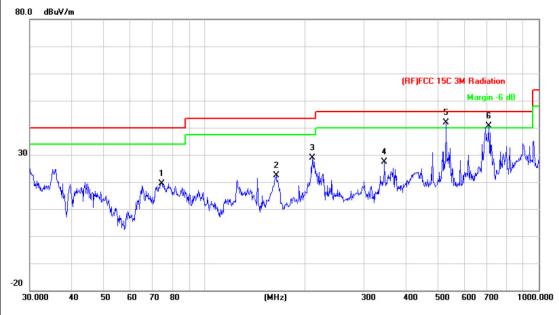
4 1	1	DIT
		KV.
	U	ענ
100		

UT:	iDISP	LAY TABLE		Model:		UIT313I	B-U02		
Temperature:	25 ℃	Can't	13	<b>Relative Humidity:</b> 55%			N. S.		
Test Voltage:	AC 12	20V/60Hz			(III)	133			
Ant. Pol.	t. <b>Pol.</b> Horizontal						THE		
Test Mode:	BLE T	X 2442 Mod	de	WILD TO		A VIII			
Remark:	Only v	worse case i	s reported						
80.0 dBuV/m									
					(RF)FCC 150	C 3M Radiation			
						Margin -6	dB		
				_		c			
30				4	5	×	4		
				,	wh	hreappaparal of White	Managhan		
		2	3	Athena de la	THE WHITE THE PARTY OF THE PART	eliciply party party	Also often		
War have	many array of the way for	MANA MANANA	rational frame	( <sub>N</sub> ra <mark>l</mark> l <sub>e</sub> ) Herpi <sup>†</sup> etter <sub>Newson</sub>		***			
20	50 60 70	80		300	400 500				
-20	,	80	(MHz)	300					
20	,								
-20 30.000 40	50 60 70	80 Reading	(MHz)	300 Measure-	400 500	0 600 700	1000.00		
30.000 40  No. Mk.	50 60 70 Freq.	Reading Level	(MHz) Correct Factor	Measure- ment	400 500 Limit	0 600 700 Over	1000.00		
No. Mk.	50 60 70  Freq.  MHz	Reading Level	(MHz)  Correct Factor  dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over	Detect pea		
No. Mk.  1 3 2 9	Freq.  MHz  1.7313	Reading Level dBuV 28.85	(MHz)  Correct Factor  dB/m -15.03	Measure- ment dBuV/m 13.82	400 500  Limit  dBuV/m  40.00	Over dB -26.18	Detect		
No. Mk.  1 3 2 9 3 16	Freq. MHz 1.7313 9.5279	Reading Level dBuV 28.85 34.02	Correct Factor dB/m -15.03 -21.86	Measure- ment dBuV/m 13.82 12.16	Limit  dBuV/m  40.00  43.50	Over dB -26.18 -31.34	Detect pea		
No. Mk.  1 3 2 9 3 16 4 26	Freq. MHz 1.7313 9.5279 63.1818	Reading Level dBuV 28.85 34.02 33.35	(MHz)  Correct Factor  dB/m -15.03 -21.86 -20.72	300 Measure- ment dBuV/m 13.82 12.16 12.63	Limit  dBuV/m  40.00  43.50  43.50	Over  dB  -26.18  -31.34  -30.87	Detect pea pea		



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EUT:	iDISPLAY TABLET	Model:	UIT313B-U02
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	BLE TX 2442 Mode		
Remark:	Only worse case is repor	ted	339



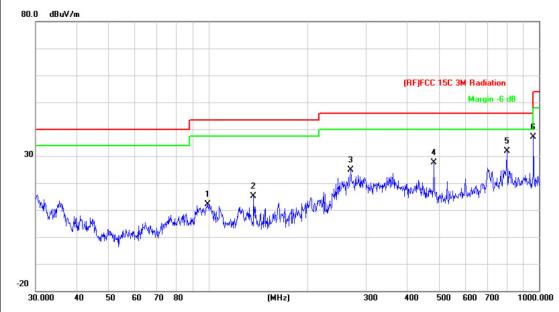
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		74.3953	42.86	-23.46	19.40	40.00	-20.60	peak
2		163.7547	43.10	-20.76	22.34	43.50	-21.16	peak
3		210.0482	48.78	-19.96	28.82	43.50	-14.68	peak
4		345.5951	42.34	-14.88	27.46	46.00	-18.54	peak
5	*	528.2458	52.07	-10.14	41.93	46.00	-4.07	peak
6	İ	709.1823	47.59	-6.97	40.62	46.00	-5.38	peak

<sup>\*:</sup>Maximum data x:Over limit !:over margin



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EUT:	iDISPLAY TABLET	Model:	UIT313B-U02
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		339
Ant. Pol.	Horizontal		
Test Mode:	BLE TX 2480 Mode		A HILL
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		99.5279	34.02	-21.86	12.16	43.50	-31.34	peak
2		136.9388	37.18	-22.04	15.14	43.50	-28.36	peak
3		269.4284	42.70	-17.70	25.00	46.00	-21.00	peak
4		480.5276	39.36	-11.62	27.74	46.00	-18.26	peak
5	*	801.7862	38.35	-6.49	31.86	46.00	-14.14	peak
6		962.1621	41.96	-4.84	37.12	54.00	-16.88	peak

<sup>\*:</sup>Maximum data x:Over limit !:over margin



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UT:	iDISPL	AY TABLE		Model:		UIT313E	3-U02
Temperature:	25 ℃	Carrier States		Relative Hun	nidity:	55%	100
Test Voltage:	AC 120	OV/60Hz		11	Cal	11.30	
Ant. Pol.	Vertica	ı	Alto			and the same	
Test Mode:	BLE TX	X 2480 Mod	de	CHILD'S	2	2 1	A Basse
Remark:	Only w	orse case i	is reported	1	CITI'S	33	
80.0 dBuV/m							
30		Wandy		2 X What, h-1/4/pd	(RF)FCC	15C 3M Radiatio	
-20	50 50 70	90	(MU-)	200	400	500 600 700	1000 0
		80	(MHz)	300	400	500 600 700	1000.0
30.000 40 5		Reading Level	(MHz)  Correct Factor	Measure- ment	400	500 600 700 Over	1000.0
30.000 40 5 No. Mk.	ſ	Reading	Correct	Measure-		Over	1000.0
30.000 40 5 No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over dB	Detect
No. Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over dB -21.16	Detecto
No. Mk.  1 163 2 210	Freq. MHz 3.7547	Reading Level dBuV 43.10	Correct Factor dB/m -20.76	Measure- ment dBuV/m 22.34	Limit dBuV/m	Over  dB  -21.16  -14.68	Detector peal
No. Mk.  1 163 2 210 3 345	Freq. MHz 3.7547 0.0482	Reading Level dBuV 43.10 48.78	Correct Factor dB/m -20.76 -19.96	Measure- ment dBuV/m 22.34 28.82	Limit  dBuV/m  43.50  43.50	Over  dB  -21.16  -14.68  -18.54	Detector peal peal peal
No. Mk.  1 163 2 210 3 345 4 480	Freq.  MHz  3.7547  0.0482  5.5951	Reading Level dBuV 43.10 48.78 42.34	Correct Factor dB/m -20.76 -19.96 -14.88	Measure- ment dBuV/m 22.34 28.82 27.46	Limit  dBuV/m  43.50  43.50  46.00	Over  dB  -21.16  -14.68  -18.54  -15.08	Detector peal peal



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		4.0.1.0.3	A HILL
EUT:	iDISPLAY TABLET	Model:	UIT313B-U02
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		1133
Ant. Pol.	Horizontal		
Test Mode:	BLE Mode TX 2402 MHz		A VIII
Remark:	No report for the emission	which more than 10 dB	below the
	prescribed limit.		



N	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4803.687	30.62	13.44	44.06	54.00	-9.94	AVG
2		4804.211	42.77	13.44	56.21	74.00	-17.79	peak



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EUT:	iDISPLAY TABLET	Model:	UIT313B-U02
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	11	1133
Ant. Pol.	Vertical		
Test Mode:	BLE Mode TX 2402 MHz		A WILL
Remark:	No report for the emission v	which more than 10 dB	below the
	prescribed limit.	The Wall	

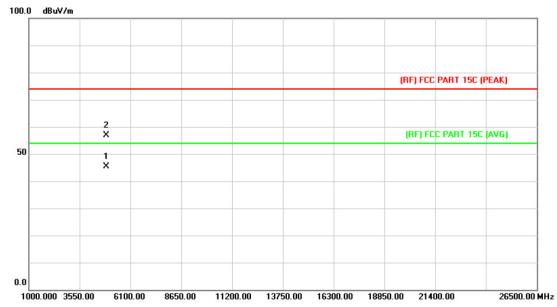


No	o. Mł	c. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4803.784	32.91	13.44	46.35	54.00	-7.65	AVG
2		4804.317	43.10	13.44	56.54	74.00	-17.46	peak



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EUT:	iDISPLAY TABLET	Model:	UIT313B-U02						
Temperature:	25 ℃	Relative Humidity:	55%						
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz							
Ant. Pol.	Horizontal								
Test Mode:	BLE Mode TX 2442 MHz		Alton						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.								

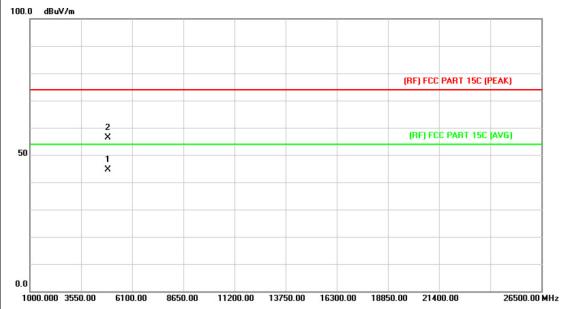


N	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4883.967	31.45	13.92	45.37	54.00	-8.63	AVG
2			4884.020	42.92	13.92	56.84	74.00	-17.16	peak



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EUT:	iDISPLAY TABLET	Model:	UIT313B-U02				
Temperature:	25 ℃ Relative Humidity: 55%						
Test Voltage:	AC 120V/60Hz	100	1339				
Ant. Pol.	Vertical	Vertical					
Test Mode:	BLE Mode TX 2442 MHz		2 1111				
Remark:							
1							



No. Mk.		. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4883.621	30.69	13.92	44.61	54.00	-9.39	AVG
2		4883.874	42.45	13.92	56.37	74.00	-17.63	peak



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		1.00							
EUT:	iDISPLAY TABLET	iDISPLAY TABLET Model:							
Temperature:	<b>25</b> ℃	25 $^{\circ}$ Relative Humidity: 55%							
Test Voltage:	AC 120V/60Hz								
Ant. Pol.	Horizontal	Horizontal							
Test Mode:	BLE Mode TX 2480 MHz		A HALL						
Remark:	No report for the emission wh	nich more than 10 dB b	elow the						
	prescribed limit.								

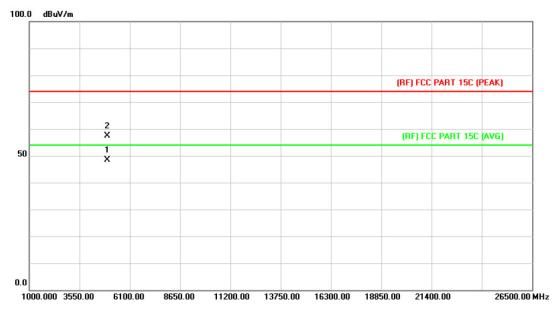


No. Mk.		. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4959.367	43.98	14.36	58.34	74.00	-15.66	peak
2	*	4959.674	32.86	14.36	47.22	54.00	-6.78	AVG



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EUT:	iDISPLAY TABLET	Model:	UIT313B-U02						
Temperature:	25 ℃	Relative Humidity:	55%						
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz							
Ant. Pol.	Vertical								
Test Mode:	BLE Mode TX 2480 MHz	WIID S	a William						
Remark:	No report for the emission v	which more than 10 dB	below the						
	prescribed limit.								



N	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4959.699	33.95	14.36	48.31	54.00	-5.69	AVG
2		4960.310	42.98	14.36	57.34	74.00	-16.66	peak



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# 6. Restricted Bands Requirement

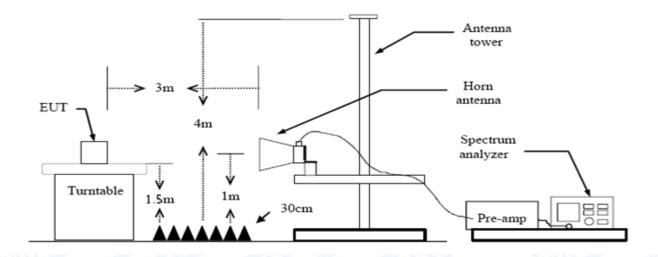
#### 6.1 Test Standard and Limit

6.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Class B (dBuV/m)(at 3 M)				
Band (MHz)	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



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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.

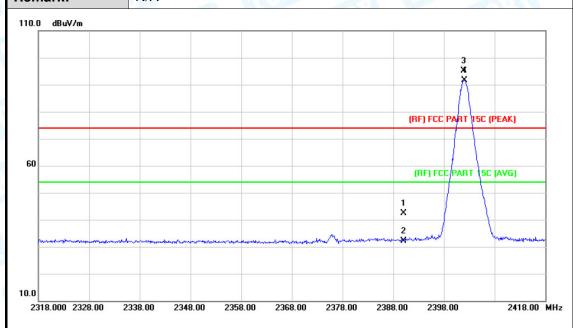
Test data please refer the following pages.



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# (1) Radiation Test

EUT:	iDISPLAY TABLET	Model:	UIT313B-U02				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz						
Ant. Pol.	Horizontal		ART				
Test Mode:	BLE Mode TX 2402 MHz						
Remark:	N/A	A MILL					



No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	41.55	0.77	42.32	74.00	-31.68	peak
2		2390.000	31.38	0.77	32.15	54.00	-21.85	AVG
3	X	2401.900	94.34	0.82	95.16	Fundamental Frequency		peak
4	*	2402.100	90.84	0.82	91.66	Fundamental	Frequency	AVG



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EUT	T:		iDISI	PLAY 1	ABLE	T	MA	Мс	odel:	UIT313E			3-U02
Tem	peratu	ire:	25 °C	C		M		Re	lative	Humidity	: 55%	6	N. Land
Test	t Voltaç	ge:	AC 1	20V/6	OHz		1	11		(A)	U.S.		
Ant.	Pol.		Verti	cal		111						A	
Test	t Mode	:	BLE	Mode	TX 24	102 MH	Z	6	11/10		a 1		l lease
Ren	nark:		N/A	1/3						CILL	33		
100.0	) dBuV/m												
											3 Xi		
											Å		
										(RF) FCC	PART 15C (	(PEAK)	
											+		
										(RF) FC	C PART 150	(AVG)	
50										1			
										×			
	and the latest and th	werenser große	10-december	لمصربين	بالهادة والعراب		العديد الإدراء	and the start of the	المستعملة والمتعارض والمتع	2 W- <del>X</del>	\	harman .	man de
0.0	18.000 23	28.00 2	338.00	2348.00	2350	8.00 23	68.00	2378	3.00 23	88.00 2398	3.00	24	18.00 MHz
N	lo. Mk	. Fre	eq.	Read		Corre			asure- nent	Limit	Ove	er	
		MH		dBı		dB/n			BuV/m	dBuV/n	n dE	3	Detector
1		2390.	000	42.	35	0.7		4	3.12	74.00	-30	.88	peak
2		2390.		31.		0.7			2.27	54.00			AVG
3	X	2401.		90.		0.82			1.08				
										Fundament	aı Frequei	псу	peak
4	*	2402.	100	85.	88	0.82	2	8	6.70	Fundament	al Frequer	псу	AVG



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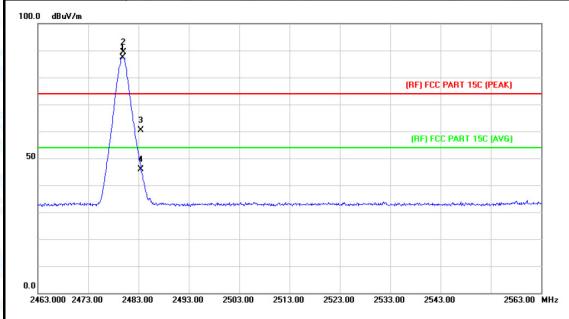


EUT:	iDISF	PLAY TABLE	T	Model:		UIT313B-U0 2	
Temperature:	25 °C			Relativ	e Humidity:	55%	
Test Voltage:	AC 1	20V/60Hz	MILLE				
Ant. Pol.	Horiz	zontal			7	(III)	100
Test Mode:	BLE	Mode TX 24	80 MHz	Contract of the Contract of th			6
Remark:	N/A		CALLED ST		A MILE		3/ /
110.0 dBuV/m							-20
	1						
	3 X						
	$\Lambda$						
	<del>/                                    </del>				(RF) FCC PAR	T 15C (PEAK)	
	3 ×						
60					(RF) FCC PAR	RT 15C (AVG	
	*						
1	-						
and the second s	المرا	kiriliferiyi ingiriyinlari (maddiliferimid)	Agreement of the second of the	hattananan karing disan-disan sakari	ag paga paga a paga	Philippine and the control of the co	- mandra office
10.0							
2463.000 2473.00				2522.00 2	2533.00 2543.00	21	563.00 MHz
2700.000 £710.00	2483.00	2493.00 2503		No. 20 20 20 20 20 20 20 20 20 20 20 20 20			003.00 MII2
	2483.00 Freq.	Reading Level		Measure- ment	-	Over	903.00 MI12
No. Mk.		Reading	Correct	Measure-	-		Detector
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over dB	Detector
No. Mk. 1	Freq. <sub>MHz</sub>	Reading Level	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over dB	
No. Mk.  1 X 247 2 * 247	Freq. MHz 79.700	Reading Level dBuV 94.58	Correct Factor dB/m 1.15	Measure- ment dBuV/m 95.73	Limit  dBuV/m  Fundamental Free  Fundamental Free	Over dB	Detector peak



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EUT:	iDISPLAY TABLET	Model:	UIT313B-U02					
Temperature:	25 ℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60Hz							
Ant. Pol.	Vertical							
Test Mode:	BLE Mode TX 2480 MHz		THE PERSON NAMED IN					
Remark:	N/A							



No. Mk.		c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2479.800	86.33	1.15	87.48	Fundamental Frequency		AVG
2	Χ	2480.000	88.19	1.15	89.34	Fundamental	Frequency	peak
3		2483.500	59.20	1.17	60.37	74.00	-13.63	peak
4		2483.500	44.59	1.17	45.76	54.00	-8.24	AVG



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# 7. Antenna Requirement

#### 7.1 Standard Requirement

7.1.1 Standard FCC Part 15.203

#### 7.1.2 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.

#### 7.2 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.

#### 7.3 Result

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

	Antenna Type
	▼ Permanent attached antenna
000	□ Unique connector antenna
	□ Professional installation antenna