

# **TEST REPORT**

# No. I17D00247-EMC04

## For

Client: Shanghai Sunmi Technology Co.,Ltd.

**Production: POS System** 

Model Name: W1303

Hardware Version: B3.2

Software Version: SUNMI\_T1mini\_GLOBAL\_000009\_170913

FCC ID: 2AH25W1301

Issued date: 2018-01-11

### Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of ECIT Shanghai.

### **Test Laboratory:**

ECIT Shanghai, East China Institute of Telecommunications

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## Report No.:I17D00247-EMC04



### **Revision Version**

Report Number	Revision	Date	Memo
I17D00247-EMC04	00	2018-01-11	Initial creation of test report

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## 1. Test Laboratory

## 1.1. Testing Location

Company Name: ECIT Shanghai, East China Institute of Telecommunications

Address: 7F, G Area, No. 668, Beijing East Road, Huangpu District, Shanghai,

P. R. China

Postal Code: 200001

Telephone: 86-21-63843300 Fax: 86-21-63843301

FCC registration No: 489729

## 1.2. Testing Environment

Normal Temperature:  $15-35^{\circ}$ C Relative Humidity:  $30-60^{\circ}$ RH

## 1.3. Project data

Project Leader: Zhou Yan
Testing Start Date: 01-08,2018
Testing End Date: 01-09,2018

## 1.4. Signature

原至莫

Qin Yabin

(Prepared this test report)

You Jinjun

(Reviewed this test report)

Zheng Zhongbin
Director of the laboratory
(Approved this test report)





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## 2. Client Information

## 2.1. Applicant Information

Company Name: Shanghai Sunmi Technology Co.,Ltd.

Room 605, Block 7, KIC Plaza, No.388 Song Hu Road, Yang Pu Address:

District, Shanghai, China

Telephone: 18721763396

Post: 200433

### 2.2. Manufacturer Information

Company Name: Shanghai Sunmi Technology Co.,Ltd.

Room 605, Block 7,KIC Plaza, No.388 Song Hu Road, Yang Pu Address:

District, Shanghai, China

Telephone: 18721763396

Post: 200433



## 3. Equipment under Test (EUT) and Ancillary Equipment (AE)

## 3.1. About EUT

EUT Description	POS System
Model name	W1303
Additional Communication Function	BT4.0;WIFI 802.11b,g,n;NFC

## 3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
N02	/	B3.2	SUNMI_T1mini_GLOBA L_000009_170913	2018-01-09

<sup>\*</sup>EUT ID: is used to identify the test sample in the lab internally.

## 3.3. Internal Identification of AE used during the test

AE ID*	Description Model		SN
CA04	Adapter	EA10681P-240	/
UA01	AC Cable	/	/
AE1	Type A Card	/	1

<sup>\*</sup>AE ID: is used to identify the test sample in the lab internally.



## 4. Reference Documents

## 4.3. Reference Documents for testing

The following documents listed in this section are referred for testing.

The following are also as a second and a second are a second as a				
Reference	Title	Version		
FCC CFR47	Frequency allocations and radio treaty matters;	2017		
Part 2	general rules and regulations	2017		
FCC CFR47	Padia Fraguenay Davisca Intentional Padiatora	2017		
Part 15C	Radio Frequency Devices-Intentional Radiators	2017		
ANSI C63.10	American National Standard of Procedures for Compliance	2012		
	Testing of Unlicensed Wireless Devices	2013		

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### 5. Test Results

## 5.1. Summary of Test Results

Items	Test List	Clause in FCC rules	Verdict
1	20 dB bandwidth	2.1049	Pass
2	Frequency Stability	15.225(e)	Pass
3	Radiated Emissions	15.225 (a) (b) (c) (d) and 15.209	Pass
4	Conducted Emissions	15.207	Pass

### 5.2. Statements

The W1303, supporting BT/WLAN/NFC, manufactured by Shanghai Sunmi Technology Co.,Ltd. is a variant product for testing. ECIT only performed test cases which identified with Pass/Fail/Inc result in section 5.1.

ECIT has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.



# 6. Test Equipment Utilized

No.	Name	Туре	Series Number	Producer	Cal. Date	Cal. interval
1	Test Receiver	ESU40	100307	R&S	2017-05-11	1 Year
2	Trilog Antenna	VULB9163	VULB9163-515	Schwarzbeck	2017-02-25	3 Year
3	Loop Antenna	AL-130R	121083	COM-POWE R	2016-11-21	3 Year
4	EMI Test Software	EMC32 V9.15	NA	R&S	NA	NA
5	Test Receiver	ESCI	101235	R&S	2017-05-11	1 Year
6	2-Line V-Network	ENV216	101380	R&S	2017-05-11	1 Year
7	EMI Test Software	EMC32 V9.12	NA	R&S	NA	NA
8	Vector Signal Analyser	FSQ26	101096	R&S	2017-05-11	1 Year
9	Climate chamber	SH-641	92012011	ESPEC	2017-12-05	2 Year



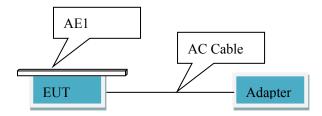
## 7. System Configuration during Test

### 7.1 Test Mode

Test Item	Function Type
20 dB bandwidth	Mode 1: TX mode <figure 1=""></figure>
Frequency Stability	Mode 1: TX mode <figure 1=""></figure>
Radiated Emissions	Mode 1: TX mode <figure 1=""></figure>
Conducted Emissions	Mode 1: TX mode <figure 1=""></figure>

Remark: The NFC function is opened in the setting menu. The EUT will transmit the NFC command continuously during the test, and will read the information from the Type A Card continuously.

## 7.2 Connection Diagram of Test System



<Figure 1> Mode 1



### 8. Measurement Results

#### 8.1 20dB Bandwidth

#### Reference

See Clause 6.9 of ANSI C63.10-2013

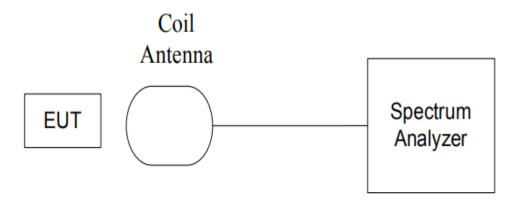
#### **Measurement Methods**

The transmitter output signal was picked up by coil antenna to the spectrum analyzer.

The transmitter output signal was picked up by coil antenna connected to the spectrum analyzer.

The bandwidth of the center frequency was measured with 140Hz RBW, 420Hz VBW and 14kHz span.

#### **Test Setup**



#### **EUT Operating Mode and Test Conditions**

The measurement of EUT is carried out under the transmit state of NFC and without modulation. EUT had been not connected to a travel adapter.

During the measurements, the ambient temperature is in the range of 15~25℃.

#### Limits

The 20dB bandwidth shall be less than 80% of the permitted frequency band. For 13.56MHz NFC, the permitted frequency band is 14kHz, so the limit is 11.2kHz.

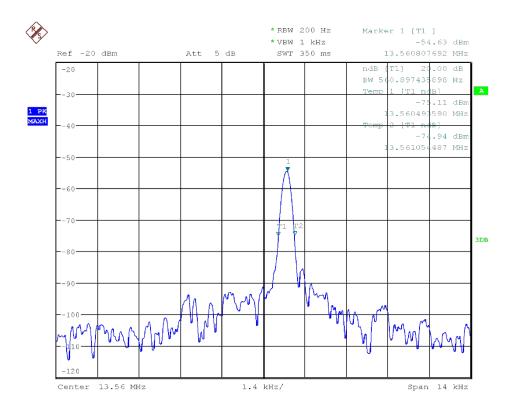
#### **Uncertainty Measurement**

The measurement uncertainty is 60.8Hz (k=2)



### **Test Results:**

Carrier frequency	20dB Bandwidth	Conclusion
(MHz)	(Hz)	
13.56	560.897	Pass



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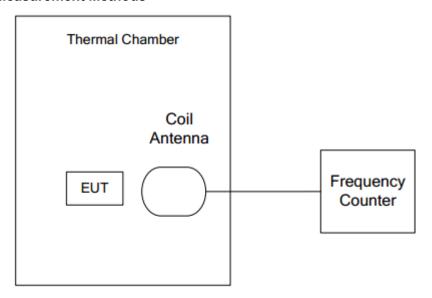


## 8.2 Frequency Stability

#### Reference

See Clause 6.8 of ANSI C63.10-2013

#### **Measurement Methods**



The transmitter output single was picked up by coil antenna connected to the frequency counter. The center frequency was measured with 30Hz RBW and 1kHz span.

During the test, the EUT was placed in a thermal chamber until thermal balance and lasting appropriate time.

### **EUT Operating Mode and Test Conditions**

The measurement of EUT is carried out under the transmit state of without modulation, EUT1 had been not connected to a travel adapter.

Operation Temperature: Tmin=-20 $^{\circ}$ C, Tnom=25 $^{\circ}$ C, and Tmax=50 $^{\circ}$ C Operation Voltage: Vmin=22.8V, Vmax=25.2V,and Tnom=24V.

#### Limits

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

#### **Uncertainty Measurement**

The measurement uncertainty U=60.8Hz(k=2).

#### **Test Results**

Temperature	Voltage	Frequency Error (MHz)			
		Startup 2Min Later 5Min Later 10Min Later			
Tmin	Vnom	13.560777244	13.560777244	13.560777244	13.560776245
Tmax	Vnom	13.560748245	13.560754392	13.560762255	13.560738299

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Vnom	13.560753205	13.560769321	13.560748244	13.560724984
Vmin	13.560777244	13.560769231	13.560769231	13.560748257
Vmax	13.560719277	13.560738284	13.560744283	13.560762211

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Temperature	Voltage	Frequency Error (%)						
		Startup	2Min Later	5Min Later	10Min Later			
Tmin	Vnom	0.007	0.007	0.007	0.007			
Tmax	Vnom	0.007	0.007	0.007	0.007			
Tnom	Vnom	0.007	0.007	0.007	0.007			
Tnom	Vmin	0.007	0.007	0.007	0.007			
Tnom	Vmax	0.007	0.007	0.007	0.007			



#### 8.3 Radiated Emissions

### 8.3.1 Electric Field Strength of Fundamental Emissions

#### Reference

See Clause 6.4 of ANSI C63.10-2013

#### **Method of Measurement**

The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving antenna is 1 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

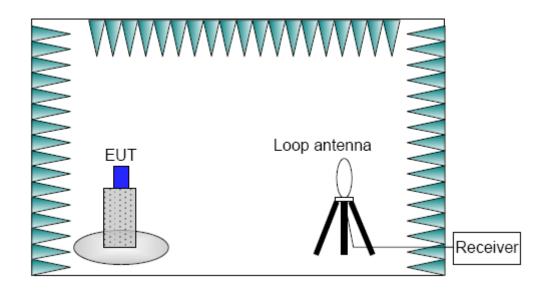
#### The measurement bandwidth:

Frequency (MHz)	RBW / VBW
12.56-14.56	10 / 30kHz

The E-field measured at 3m is calculated as:

E-field (dBuV/m) = Rx (dBuV) + Cable Loss (dB) + AF@3m (dB/m)

### **Test Setup**



#### Limits

Clause 15.225(a) the field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

Clause 15.225(b) within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength East China Institute of Telecommunications

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of any emissions shall not exceed 334 microvolts/meter at 30 meters.

Clause 15.225(c) within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

Frequency Range (MHz)	E-field Strength Limit @30m	E-field Strength Limit @3m		
	(uV/m)	(dBuV/m)		
13.560 ± 0.007	+15,848	124		
13.410 to 13.553	+334	90		
13.567 to 13.710				
13.110 to 13.410	+106	81		
13.710 to 14.010				

Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:

Extrapolation (dB) =  $40log_{10}$  (Measurement Distance / Specification Distance)

### **Measurement Uncertainty**

Measurement uncertainly: (9kHz-30MHz) 5.66dB k=2

#### **Measurement Results**

Measurement results of normal conditions see Figure 1 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses

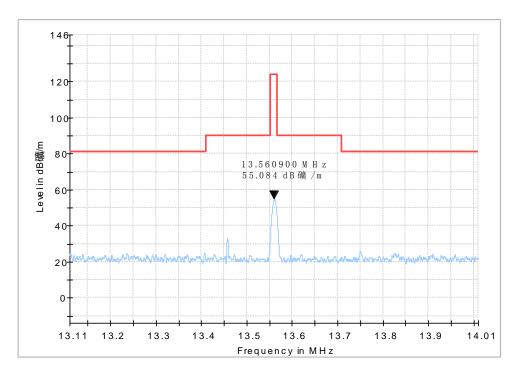


Figure 1 TX mode



### 8.3.2 Electric Field Radiated Emissions (Below 30MHz)

#### Reference

See Clause 6.4 of ANSI C63.10-2013

#### **Method of Measurement**

The electric field radiated emissions from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving antenna is 1 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

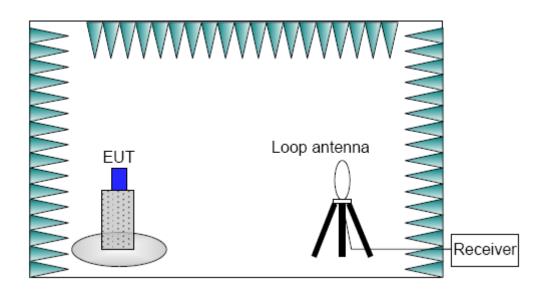
#### The measurement bandwidth:

Frequency (MHz)	RBW / VBW
0.009-30	10 / 30kHz

The E-field measured at 3m is calculated as:

E-field (dBuV/m) = Rx (dBuV) + Cable Loss (dB) + AF@3m (dB/m)

### **Test Setup**





#### Limits

Frequency Range (MHz)	E-field Strength Limit @30m	E-field Strength Limit @3m	
	(mV/m)	(dBuV/m)	
0.009-0490	2400/F (kHz)	129-94	
0.490-1.705	24000/F (kHz)	74-63	
1.705-30	30	70	

Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:

Extrapolation (dB) =  $40log_{10}$  (Measurement Distance / Specification Distance)

### **Measurement Uncertainty**

Measurement uncertainly: (9kHz-30MHz) 5.66dB k=2

#### **Measurement Results**

Measurement results of normal conditions see Figure 2 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses

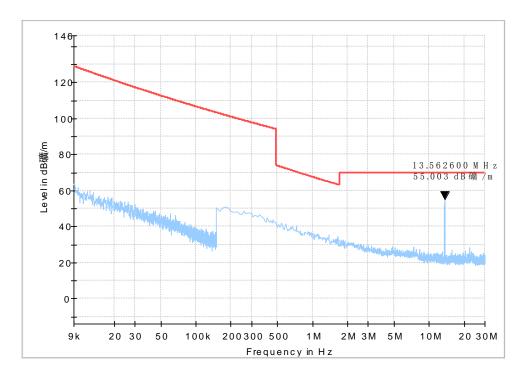


Figure 2 TX mode (9kHz-30MHz)



## 8.3.3 Electric Field Radiated Emissions (Above 30MHz)

#### Reference

See Clause 6.5 of ANSI C63.10-2013

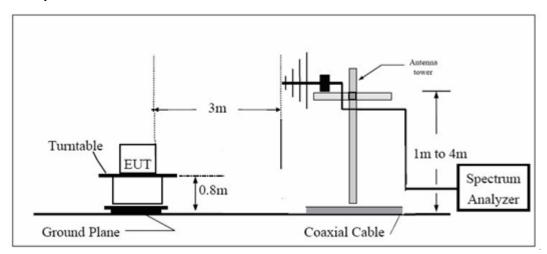
#### **Method of Measurement**

The electric field radiated emissions from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The table was rotated 360 degree and the received antenna mounted on a variable-height antenna tower was varied from 1m to 4m to find the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. The measurements were performed with the peak detector and if required, the quasi-peak detector.

#### The measurement bandwidth:

Frequency (MHz)	RBW / VBW
30-1000	120 kHz / 300kHz

### **Test Setup**



#### Limits

Frequency Range (MHz)	E-field Strength Limit @3m	E-field Strength Limit @3m		
	(mV/m)	(dBuV/m)		
30-88	100	40		
88-216	150	43.5		
216-960	200	46		
960-1000	500	54		

#### **Measurement Uncertainty**

Measurement uncertainly: (30MHz-1000MHz) 5.48dB k=2

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### **Measurement Results**

Measurement results of normal conditions see Figure 3 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses

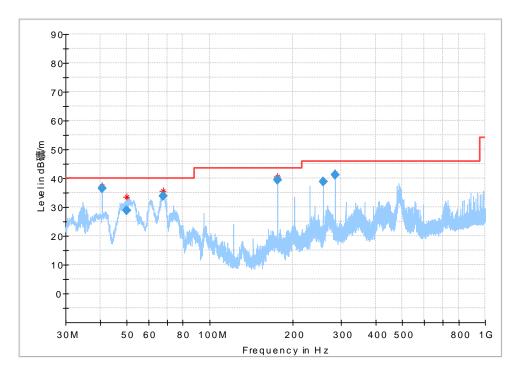


Figure 3 TX mode (30MHz-1000MHz)

Frequency	QuasiPeak	Limit	Margin	Meas.	Bandwidth	Height	Pol	Azimut	Corr.
(MHz)	(dBµV/m)	(dBµV/	(dB)	Time	(kHz)	(cm)		h	(dB)
		m)		(ms)				(deg)	
40.682632	36.61	40.00	3.39	1000.0	120.000	100.0	v	37.0	-20.8
49.989232	28.81	40.00	11.19	1000.0	120.000	100.0	v	24.0	-20.0
67.809693	33.74	40.00	6.26	1000.0	120.000	100.0	V	202.0	-24.5
176.286024	39.50	43.50	4.00	1000.0	120.000	181.0	н	28.0	-26.0
257.662387	38.95	46.00	7.05	1000.0	120.000	125.0	н	164.0	-23.1
284.793589	41.11	46.00	4.89	1000.0	120.000	106.0	н	165.0	-22.4



### **8.4 Conducted Emissions**

#### Reference

See Clause 6.2 of ANSI C63.10-2013

#### **Methods of Measurement**

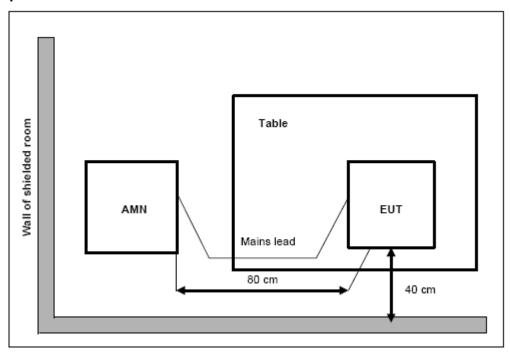
The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector. Tested in accordance with the procedures of ANSI C63.10-2013 The conducted emission measurements were made with the following detector of the test receiver Quasi-Peak / Average Detector.

### **Test Setup**

The measurement bandwidth and Test Condition

Frequency (MHz)	RBW	Sweep Time (s)	Test Voltage	
0.15-30	9 kHz	Auto	120V/60Hz	

#### **Test Setup**



#### Limits

Frequency Range (MHz)	Conducted Limit (dBuV)				
	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of the frequency					



### **Measurement Uncertainty**

Measurement uncertainly: (150kHz-30MHz) 3.47dB k=2

#### **Measurement Results**

Note: The measurement result at 13.56MHz is the fundamental emission of NFC signal.

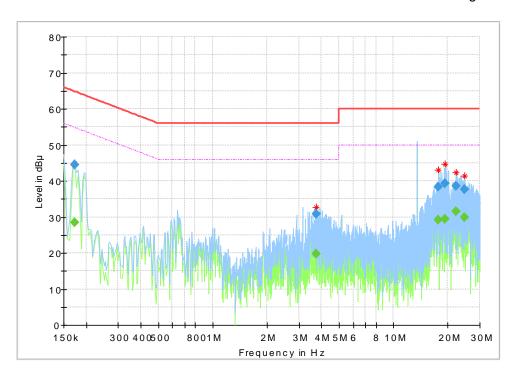


Figure 4 TX mode (150kHz-30MHz)

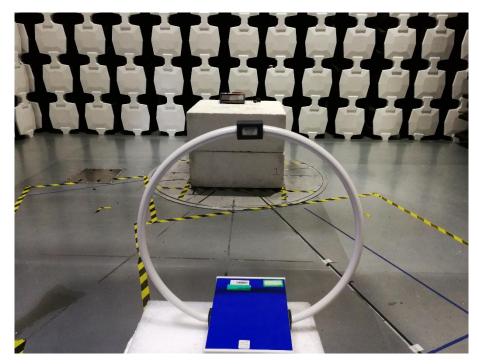
	3 -		`		,			
QuasiPeak	Average	Limit	Margin	Meas.	Bandwidth	Line	Filter	Corr.
(dB µ V)	(dB $\mu$ V)	(dB µ V)	(dB)	Time	(kHz)			(dB)
	28.51	54.84	26.33	1000.0	9.000	L1	ON	9.6
44.57	-	64.84	20.27	1000.0	9.000	L1	ON	9.6
	19.81	46.00	26.19	1000.0	9.000	L1	ON	9.7
30.87	ŀ	56.00	25.13	1000.0	9.000	L1	ON	9.7
	29.21	50.00	20.79	1000.0	9.000	L1	ON	9.9
38.43		60.00	21.57	1000.0	9.000	L1	ON	9.9
-	29.43	50.00	20.57	1000.0	9.000	L1	ON	10.0
39.41		60.00	20.59	1000.0	9.000	L1	ON	10.0
-	31.56	50.00	18.44	1000.0	9.000	L1	ON	10.0
38.55		60.00	21.45	1000.0	9.000	L1	ON	10.0
	29.86	50.00	20.14	1000.0	9.000	L1	ON	10.0
37.53		60.00	22.47	1000.0	9.000	L1	ON	10.0
	(dB µ V) 44.57 30.87 38.43 39.41 38.55	QuasiPeak (dB μ V)         Average (dB μ V)            28.51           44.57            19.81         30.87            29.21           38.43             29.43           39.41            38.55             29.86	QuasiPeak (dB μ V)         Average (dB μ V)         Limit (dB μ V)            28.51         54.84           44.57          64.84            19.81         46.00           30.87          56.00            29.21         50.00           38.43          60.00            29.43         50.00           39.41          60.00            31.56         50.00           38.55          60.00            29.86         50.00	QuasiPeak (dB μ V)         Average (dB μ V)         Limit (dB μ V)         Margin (dB)           28.51         54.84         26.33           44.57         64.84         20.27           19.81         46.00         26.19           30.87         56.00         25.13           29.21         50.00         20.79           38.43         60.00         21.57           29.43         50.00         20.57           39.41         60.00         20.59           31.56         50.00         18.44           38.55         60.00         21.45           29.86         50.00         20.14	QuasiPeak (dB μ V)         Average (dB μ V)         Limit (dB μ V)         Margin (dB)         Meas.           28.51         54.84         26.33         1000.0           44.57         64.84         20.27         1000.0           19.81         46.00         26.19         1000.0           30.87         56.00         25.13         1000.0           29.21         50.00         20.79         1000.0           38.43         60.00         21.57         1000.0           39.41         60.00         20.57         1000.0           39.41         60.00         20.59         1000.0           38.55         60.00         21.45         1000.0           29.86         50.00         20.14         1000.0	QuasiPeak (dB μ V)         Average (dB μ V)         Limit (dB μ V)         Margin (dB)         Meas. Time (kHz)         Bandwidth (kHz)           28.51         54.84         26.33         1000.0         9.000           44.57         64.84         20.27         1000.0         9.000           19.81         46.00         26.19         1000.0         9.000           30.87         56.00         25.13         1000.0         9.000           29.21         50.00         20.79         1000.0         9.000           38.43         60.00         21.57         1000.0         9.000           39.41         60.00         20.57         1000.0         9.000           31.56         50.00         18.44         1000.0         9.000           38.55         60.00         21.45         1000.0         9.000           29.86         50.00         20.14         1000.0         9.000	QuasiPeak (dB μ V)         Average (dB μ V)         Limit (dB μ V)         Margin (dB μ V)         Meas. (kHz)         Bandwidth (kHz)         Line (kHz)           28.51         54.84         26.33         1000.0         9.000         L1           44.57         64.84         20.27         1000.0         9.000         L1           19.81         46.00         26.19         1000.0         9.000         L1           30.87         56.00         25.13         1000.0         9.000         L1           29.21         50.00         20.79         1000.0         9.000         L1           38.43         60.00         21.57         1000.0         9.000         L1           29.43         50.00         20.57         1000.0         9.000         L1           39.41         60.00         20.59         1000.0         9.000         L1           31.56         50.00         18.44         1000.0         9.000         L1           38.55         60.00         21.45         1000.0         9.000         L1           29.86         50.00         20.14         1000.0         9.000         L1	QuasiPeak (dB μ V)         Average (dB μ V)         Limit (dB μ V)         Margin (dB)         Meas. Time (kHz)         Bandwidth (kHz)         Line (kHz)           28.51         54.84         26.33         1000.0         9.000         L1         ON           44.57         64.84         20.27         1000.0         9.000         L1         ON           19.81         46.00         26.19         1000.0         9.000         L1         ON           30.87         56.00         25.13         1000.0         9.000         L1         ON           29.21         50.00         20.79         1000.0         9.000         L1         ON           38.43         60.00         21.57         1000.0         9.000         L1         ON           29.43         50.00         20.57         1000.0         9.000         L1         ON           39.41         60.00         20.59         1000.0         9.000         L1         ON           31.56         50.00         18.44         1000.0         9.000         L1         ON           29.86         50.00         20.14         1000.0         9.000         L1         ON

#### Note:

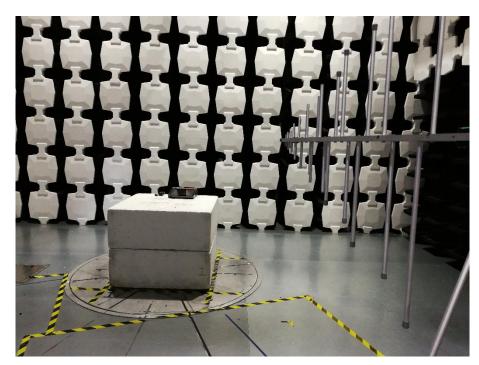
- 1. Emission level(quasi-peak or Average peak)=Raw value by receiver + Corr(Insertion loss+ cable loss)
- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3. Margin=limit value emission level.
- 4. L1 and N line is all have been tested, the result of them is synthesized in the above data diagram.



# **Annex A Test Configuration Photos**



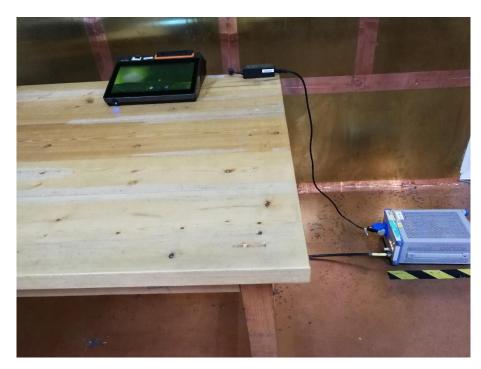
Picture1: Field Radiated Emissions (Below 30MHz)



Picture2: Field Radiated Emissions (Above 30MHz)

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**Picture3: Conducted Emissions** 



## **Annex B EUT Photos**



Picture1: Front of the EUT





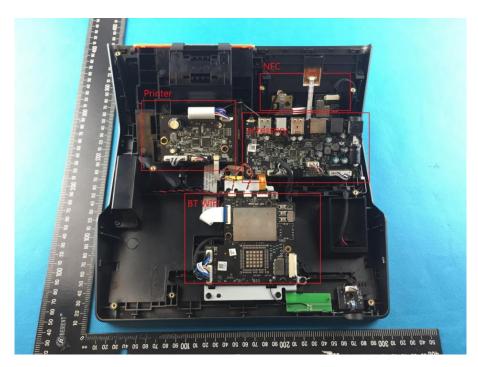


Picture2: Back of the EUT



Picture3: Exploded view -1



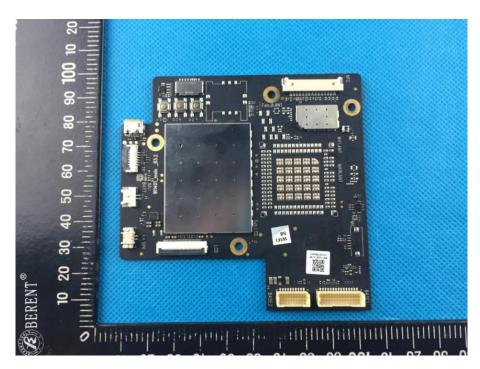


Picture4 : Exploded view -2

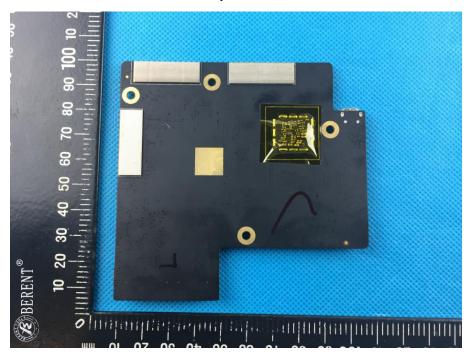


Picture5 : Exploded view -3



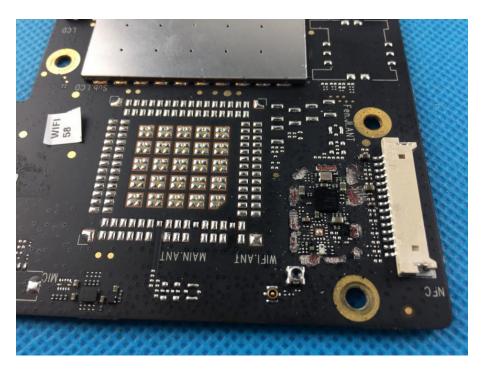


Picture6: Exploded view -4

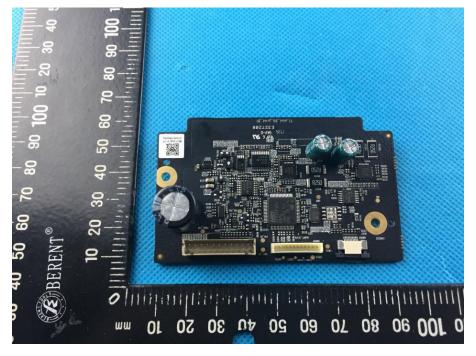


Picture7: Exploded view -5



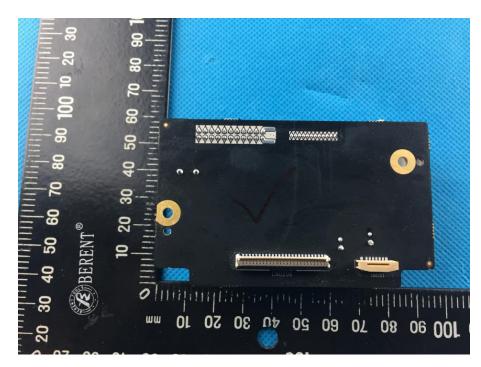


Picture8: Exploded view -6



Picture9: Exploded view -7



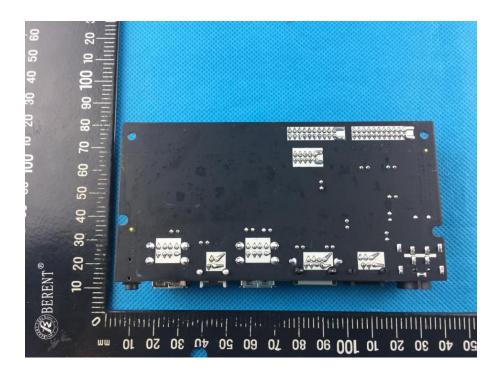


Picture10 : Exploded view -8

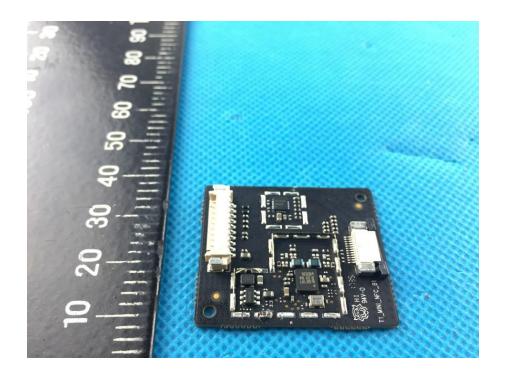


Picture11: Exploded view -9



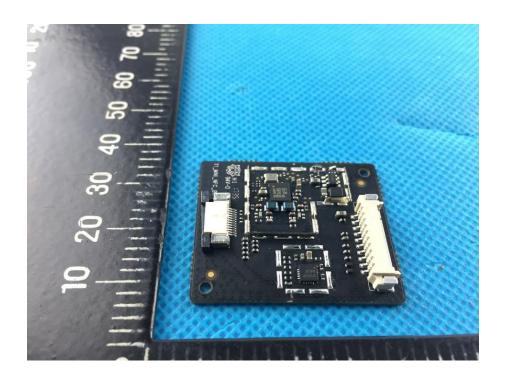


Picture12 : Exploded view -10

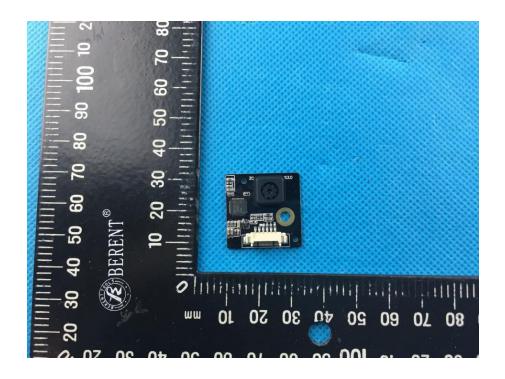


Picture13: Exploded view -11



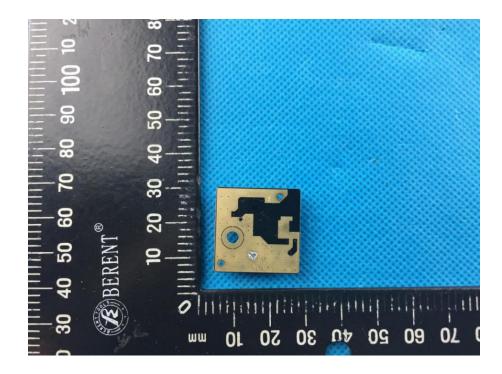


Picture14 : Exploded view -12

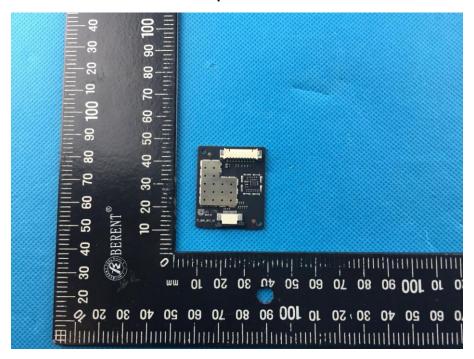


Picture15 : Exploded view -13



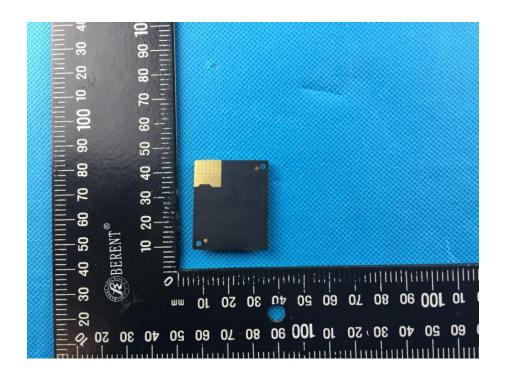


Picture16: Exploded view -14



Picture17: Exploded view -15





Picture18: Exploded view -16



Picture19: Photo of the Adapter(CA04)





Picture20 : Photo of the AC Cable(UA01)

\*\*\*\*\*\*\*\*END OF REPORT\*\*\*\*\*\*\*