

# FCC Test Report

Report No.: AGC03329180507FE03

**FCC ID** : 2AAXO-SML363

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : PORTABLE CDG/BLUETOOTH KARAOKE PLAYER

**BRAND NAME** : Singing Machine

**MODEL NAME** : See Page 4

**CLIENT** : The Singing Machine Company, Inc.

**DATE OF ISSUE** : Jun. 26, 2018

**STANDARD(S)**  
**TEST PROCEDURE(S)** : FCC Part 15 Subpart C Section 15.249

**REPORT VERSION** : V1.0



Attestation of Global Compliance (Shenzhen) Co., Ltd

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### Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 26, 2018	Valid	Initial release



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## 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	The Singing Machine Company, Inc.
<b>Address</b>	6301 NW 5th Way, Suite 2900, Fort Lauderdale, FL 33309, USA
<b>Manufacturer</b>	SHENZHEN JUNLAN ELECTRONIC LTD
<b>Address</b>	No.277 PingKui Road, Shijing Community, Pingshan Street, Pingshan New District, Shenzhen, China
<b>Product Designation</b>	PORTABLE CDG/BLUETOOTH KARAOKE PLAYER
<b>Brand Name</b>	Singing Machine
<b>Test Model</b>	SML363
<b>Series Model</b>	SML363BK, SML363P, SML363W, SML463XX, SML363XX (XX means unit color, it can be A to Z or N/A)
<b>Difference description</b>	All the same except for the appearance color.
<b>Date of test</b>	Jun. 12, 2018 to Jun. 18, 2018
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Report Template</b>	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By



Jonhen Wang(Wang Yonghuan) Jun. 18, 2018

Reviewed By



Cool Cheng(Cheng Mengguo) Jun. 26, 2018

Approved By



Forrest Lei(Lei Yonggang)  
Authorized Officer Jun. 26, 2018

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
<b>RF Output Power</b>	-0.03dBm(Max EIRP Power=Max radiation field-95.2)
<b>Bluetooth Version</b>	V2.1+EDR
<b>Modulation</b>	BR <input checked="" type="checkbox"/> GFSK, EDR <input checked="" type="checkbox"/> $\pi/4$ -DQPSK, <input checked="" type="checkbox"/> 8DPSK BLE <input type="checkbox"/> GFSK
<b>Number of channels</b>	79 for BR/EDR
<b>Hardware Version</b>	V1.0
<b>Software Version</b>	V1.0
<b>Antenna Designation</b>	PCB Antenna
<b>Antenna Gain</b>	0dBi
<b>Power Supply (by battery)</b>	DC 1.5V*8 by battery
<b>Power Supply (by adapter 1)</b>	MODEL: JY009058150BA-UL INPUT:100-240V 50/60Hz 0.5A Max OUTPUT: 5.8V 1.5A
<b>Power Supply (by adapter 2)</b>	MODEL: GKYP0150058UL1 INPUT:100-240V 50/60Hz 0.5A OUTPUT: 5.8V 1500mA
Note: 1. The EUT have are two kinds of power supply mode, both have been tested and only the worst mode (adapter) test data recorded in the test report. 2. The EUT is equipped with two adapters, both have been assessed and only the worst test data of adapter 1 recorded in this report.	

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**2.2. TABLE OF CARRIER FREQUENCIES**

BR/EDR channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHz	0	2402MHz
	1	2403MHz
	:	:
	38	2440 MHz
	39	2441 MHz
	40	2442 MHz
	:	:
	77	2479 MHz
	78	2480 MHz

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### 3. 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%.

- Uncertainty of Conducted Emission,  $U_c = \pm 3.2 \text{ dB}$
- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 3.9 \text{ dB}$
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.8 \text{ dB}$

### 4. DESCRIPTION OF TEST MODES

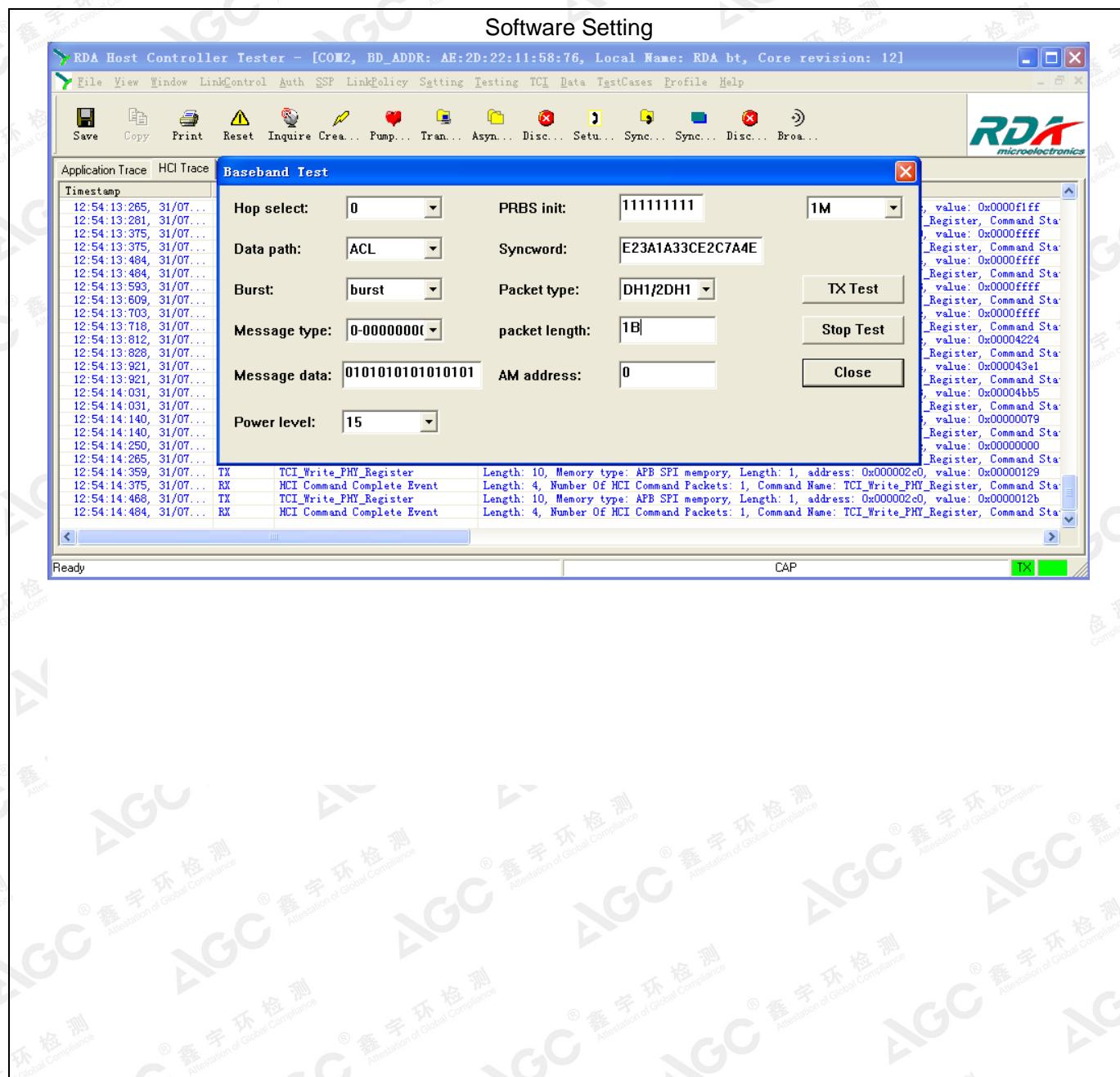
NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel $\pi/4$ -DQPSK
5	Middle channel $\pi/4$ -DQPSK
6	High channel $\pi/4$ -DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	BT Link

Note:

1. All the test modes can be supply by battery or adapter, only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. The EUT used new battery when tested.

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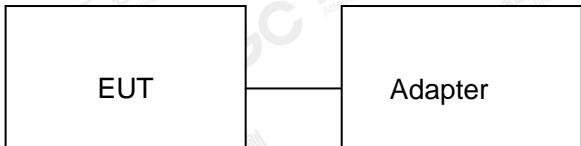
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## 5. SYSTEM TEST CONFIGURATION

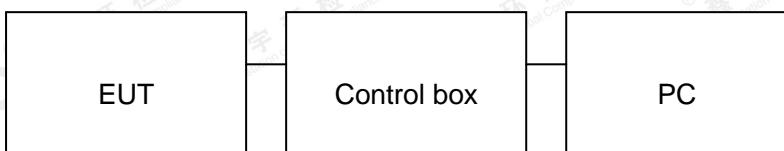
### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



**Note:** Owing to the EUT can power supply by battery, testing may be performed while adapter removed.

Configure 2: (Control continuous TX)



### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	PORATABLE CDG/BLUETOOTH KARAOKE PLAYER	Singing Machine	SML363	EUT
2	Mobile Phone	Huawei	V9	A.E
3	Control box	DOFLY	LY-USB-TIL V2.2	A.E
4	Adapter 1	J.POWER	JY009058150BA-UL	Accessory
5	Adapter 2	GUANGKAIYUAN	GKYPS0150058UL1	Accessory
6	USB Cable	N/A	1m unshielded	A.E
7	Audio out Cable	N/A	1.2m unshielded	Accessory
8	AUX in Cable	N/A	1m unshielded	A.E
9	Speaker	Haiyi	A3901	A.E
10	MIC	Singing Machine	N/A	Accessory
11	Battery	Nanfu	AAA 1.5V	A.E

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### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.215	Bandwidth	Compliant

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## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
<b>NVLAP Lab Code</b>	600153-0
<b>Designation Number</b>	CN5028
<b>Test Firm Registration Number</b>	682566
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

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## 7. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

## 8. TEST EQUIPMENT LIST

### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	--	Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	MXT	RS1	R005	June 6, 2018	June 5, 2019
Radiation Cable 2	MXT	RS1	R006	June 6, 2018	June 5, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	--	Jun.20, 2017	Jun.19, 2018

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## 9. RADIATED EMISSION

### 9.1 TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		$\mu$ V/m	dB( $\mu$ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 dB( $\mu$ V)/m (Peak) 54.0 dB( $\mu$ V)/m (Average)	

Remark:

- (1) Emission level  $dB_{\mu}V = 20 \log$  Emission level  $\mu V/m$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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## 9.2. MEASUREMENT PROCEDURE

1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
2. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
3. The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarization of the antenna are set to make the measurement.
4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
5. All readings are peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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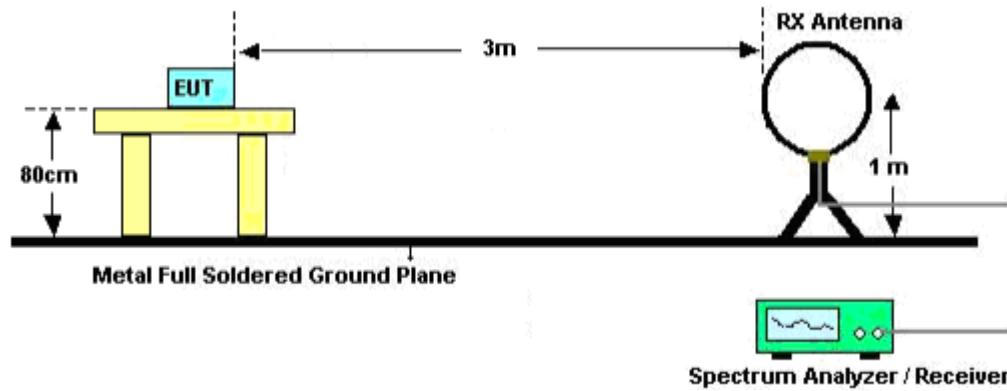


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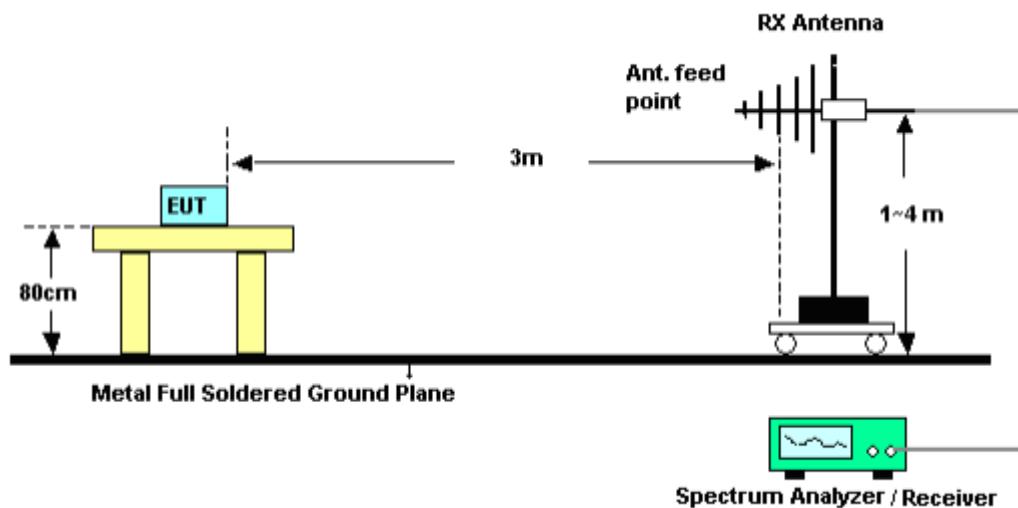
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### 9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



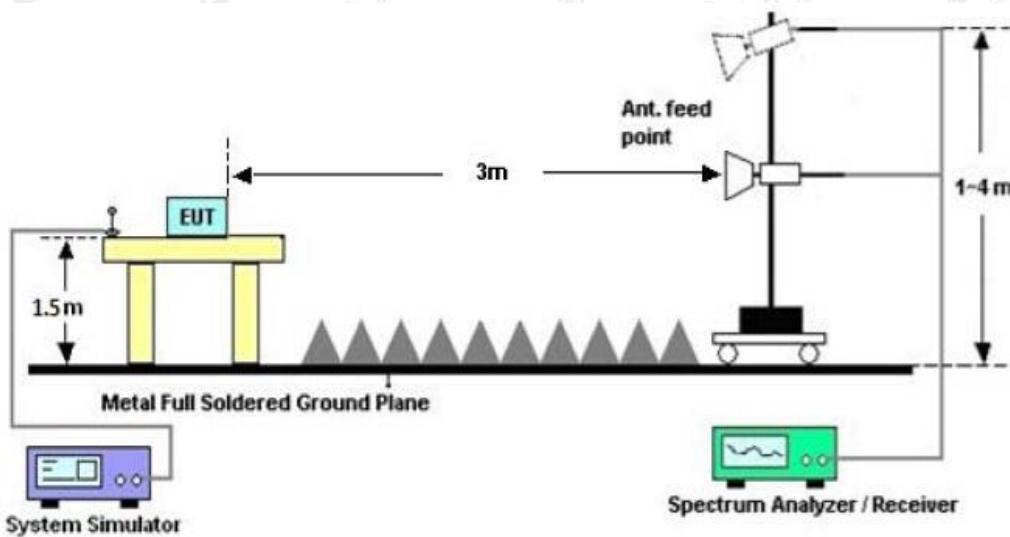
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### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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**9.4. TEST RESULT  
FOR BR/EDR  
(Worst modulation: GFSK)**

**RADIATED EMISSION BELOW 30MHz**

No emission found between lowest internal used/generated frequencies to 30MHz.



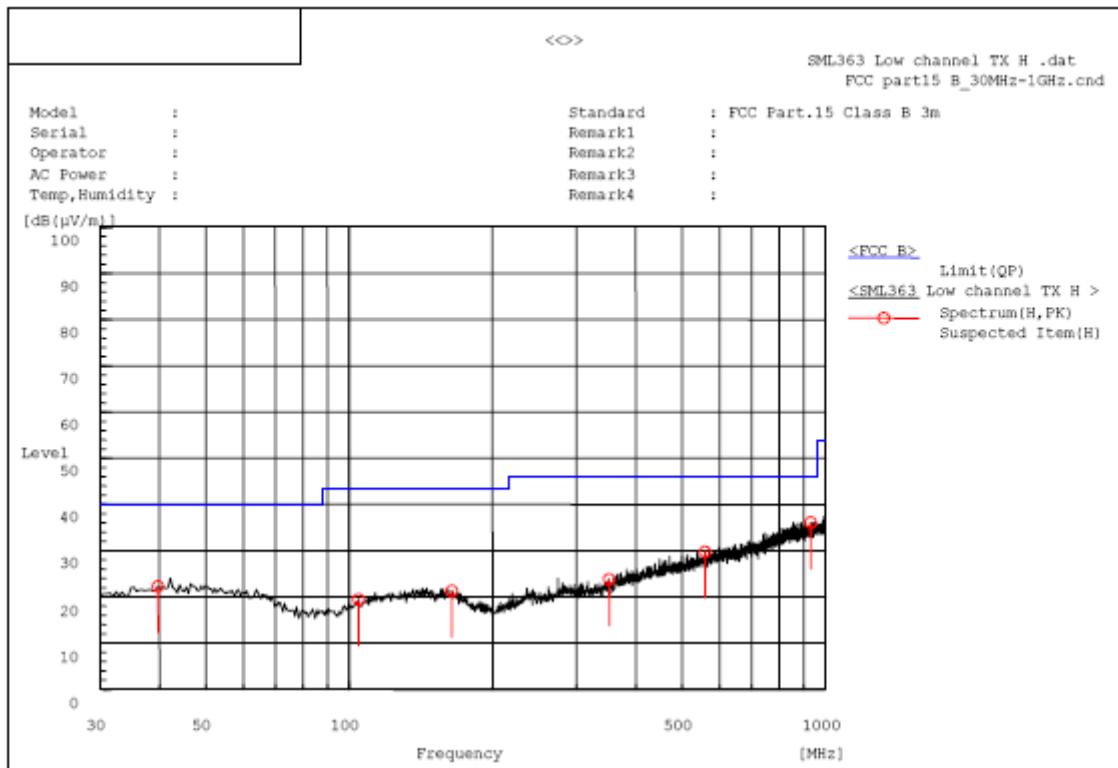
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## RADIATED EMISSION BELOW 1GHz

### RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



#### A. Suspected List:

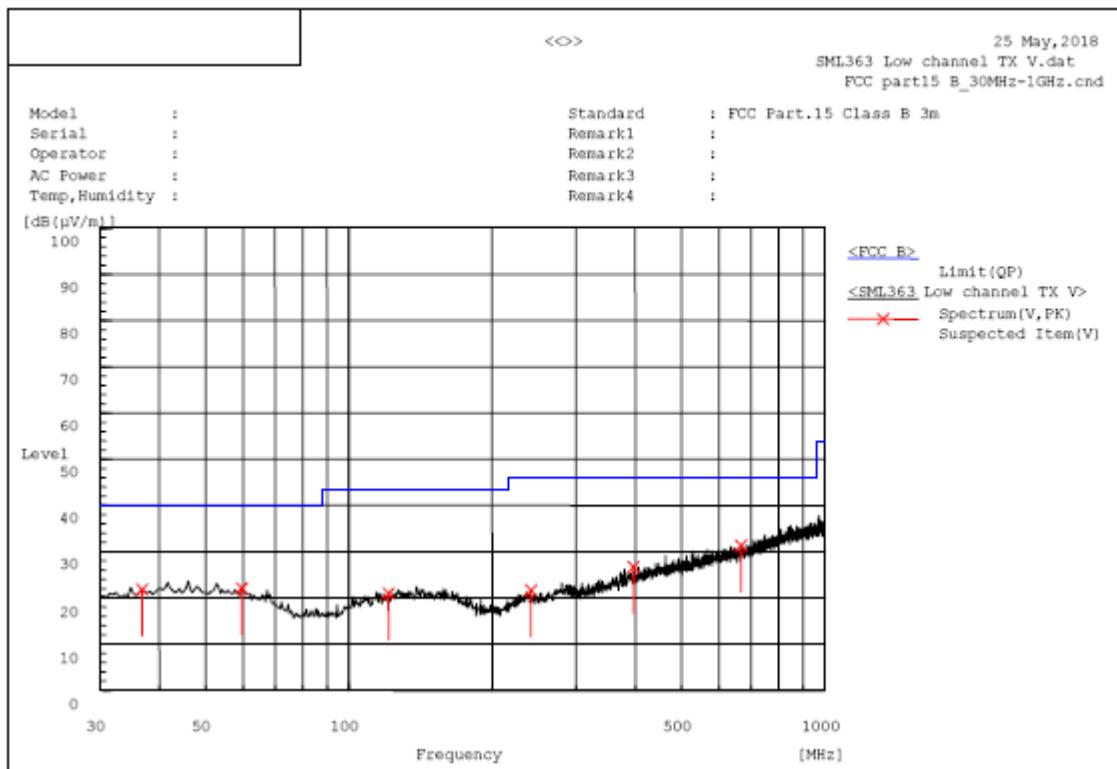
Frequency MHz	Polarization	Reading dB( $\mu$ V)	Factor dB (1/m)	Level dB( $\mu$ V/m) PK	Limit dB( $\mu$ V/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
39.700	H	4.9	17.4	22.3	40.0	17.7	Pass	150.0	70.7
104.690	H	5.5	14.0	19.5	43.5	24.0	Pass	200.0	266.3
164.345	H	4.9	16.4	21.3	43.5	22.2	Pass	150.0	212.8
351.555	H	4.8	19.0	23.8	46.0	22.2	Pass	200.0	266.3
558.650	H	5.7	24.1	29.8	46.0	16.2	Pass	100.0	289.0
931.130	H	5.6	30.5	36.1	46.0	9.9	Pass	100.0	72.0

**RESULT: PASS**

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### RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
36.790	V	5.0	16.8	21.8	40.0	18.2	Pass	100.0	266.9
59.585	V	5.9	16.2	22.1	40.0	17.9	Pass	150.0	319.9
121.180	V	5.5	15.5	21.0	43.5	22.5	Pass	100.0	266.9
241.460	V	5.5	16.2	21.7	46.0	24.3	Pass	100.0	15.4
396.175	V	6.0	20.7	26.7	46.0	19.3	Pass	200.0	145.7
666.805	V	5.5	25.8	31.3	46.0	14.7	Pass	100.0	339.0

**RESULT: PASS**

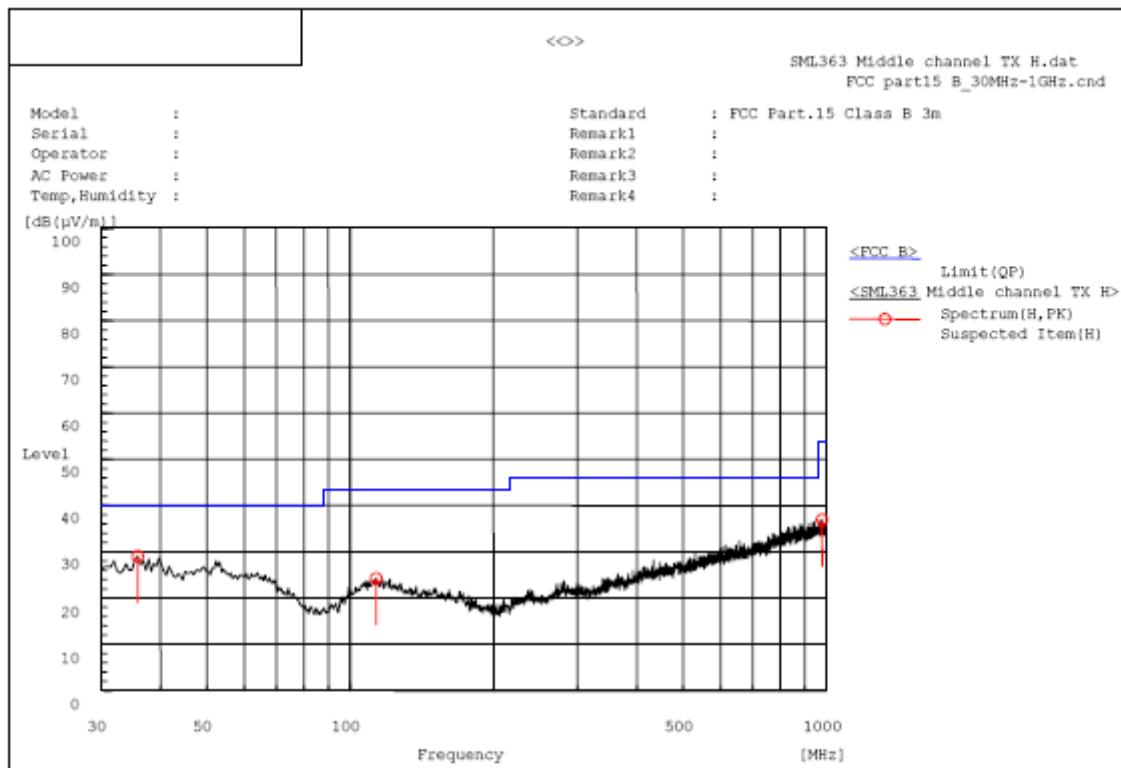
**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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### RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



#### A. Suspected List:

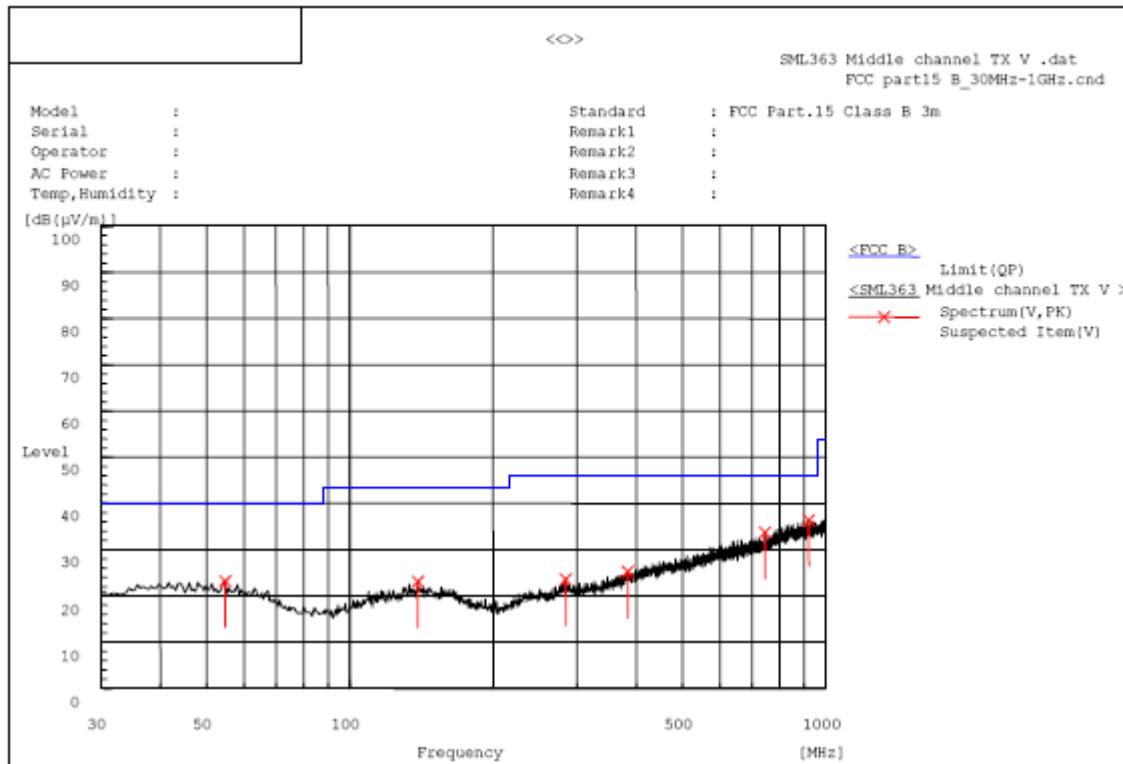
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
35.820	H	12.5	16.5	29.0	40.0	11.0	Pass	100.0	145.8
113.420	H	9.4	14.8	24.2	43.5	19.3	Pass	100.0	65.1
978.660	H	6.0	30.9	36.9	54.0	17.1	Pass	200.0	179.9

**RESULT: PASS**

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## RADIATED EMISSION TEST- (30MHz-1GHz)- MIDDLE CHANNEL -VERTICAL


**A. Suspected List:**

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
54.735	V	6.5	16.7	23.2	40.0	16.8	Pass	100.0	107.2
139.125	V	6.5	16.6	23.1	43.5	20.4	Pass	100.0	72.2
284.140	V	5.9	17.7	23.6	46.0	22.4	Pass	150.0	72.2
384.050	V	5.0	20.2	25.2	46.0	20.8	Pass	100.0	107.2
745.375	V	6.3	27.4	33.7	46.0	12.3	Pass	200.0	20.4
920.945	V	6.0	30.4	36.4	46.0	9.6	Pass	200.0	20.4

**RESULT: PASS**

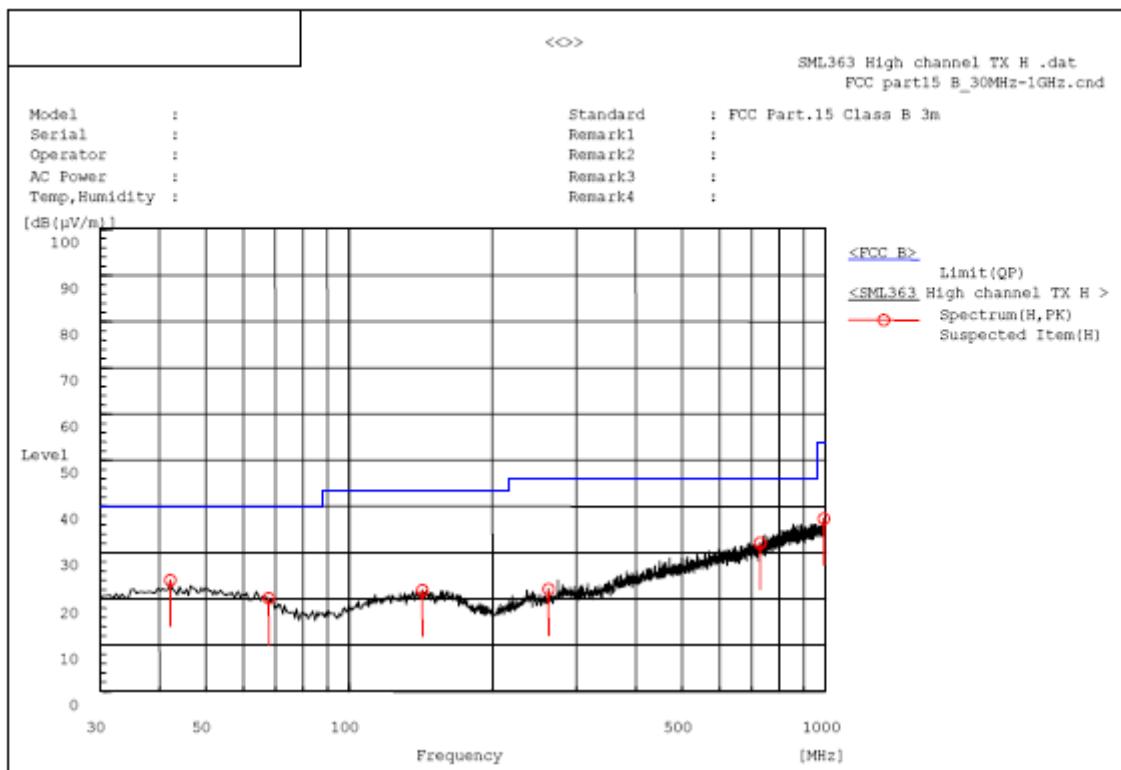
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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### RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL



#### A. Suspected List:

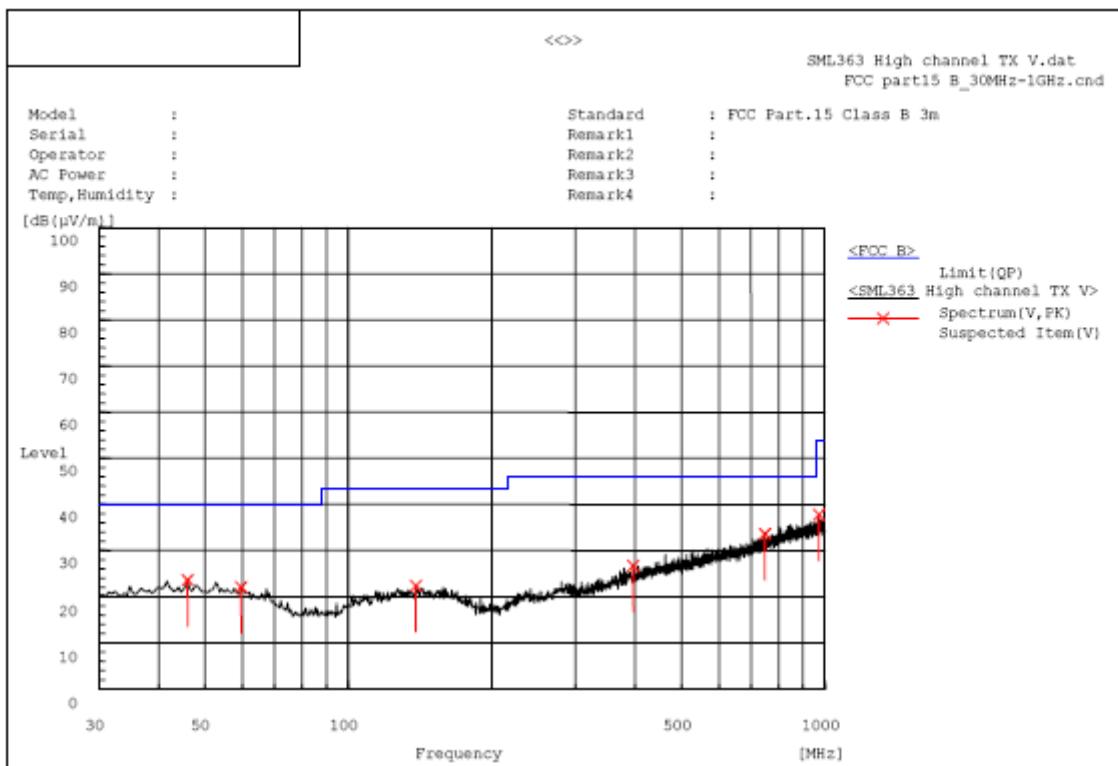
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
42.125	H	6.6	17.4	24.0	40.0	16.0	Pass	200.0	266.3
67.830	H	5.1	15.0	20.1	40.0	19.9	Pass	150.0	107.1
142.520	H	5.3	16.6	21.9	43.5	21.6	Pass	200.0	303.4
262.315	H	6.1	16.0	22.1	46.0	23.9	Pass	100.0	216.9
729.370	H	5.1	27.0	32.1	46.0	13.9	Pass	200.0	266.3
992.725	H	6.3	31.0	37.3	54.0	16.7	Pass	200.0	266.3

**RESULT: PASS**

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### RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL



#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
46.005	V	6.3	17.3	23.6	40.0	16.4	Pass	100.0	266.9
59.585	V	5.9	16.2	22.1	40.0	17.9	Pass	150.0	319.9
138.640	V	5.8	16.6	22.4	43.5	21.1	Pass	150.0	176.4
396.175	V	6.0	20.7	26.7	46.0	19.3	Pass	200.0	145.7
748.770	V	6.1	27.5	33.6	46.0	12.4	Pass	100.0	267.4
971.870	V	6.9	30.9	37.8	54.0	16.2	Pass	150.0	70.7

**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

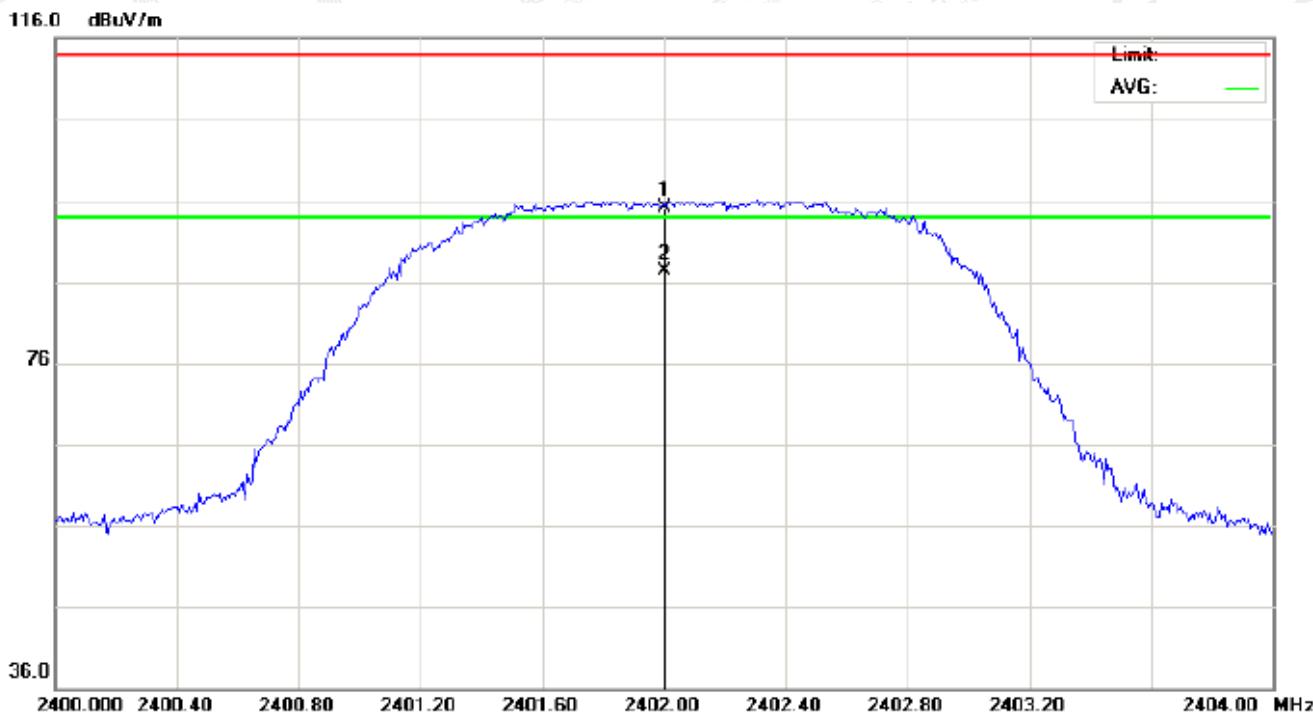
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RADIATED EMISSION ABOVE 1GHz  
FOR BR/EDR  
(Worst modulation: GFSK)

For Fundamental

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	84.85	10.32	95.17	114.00	-18.83	peak			
2	*	2402.000	76.89	10.32	87.21	94.00	-6.79	AVG	100	331	

**RESULT: PASS**

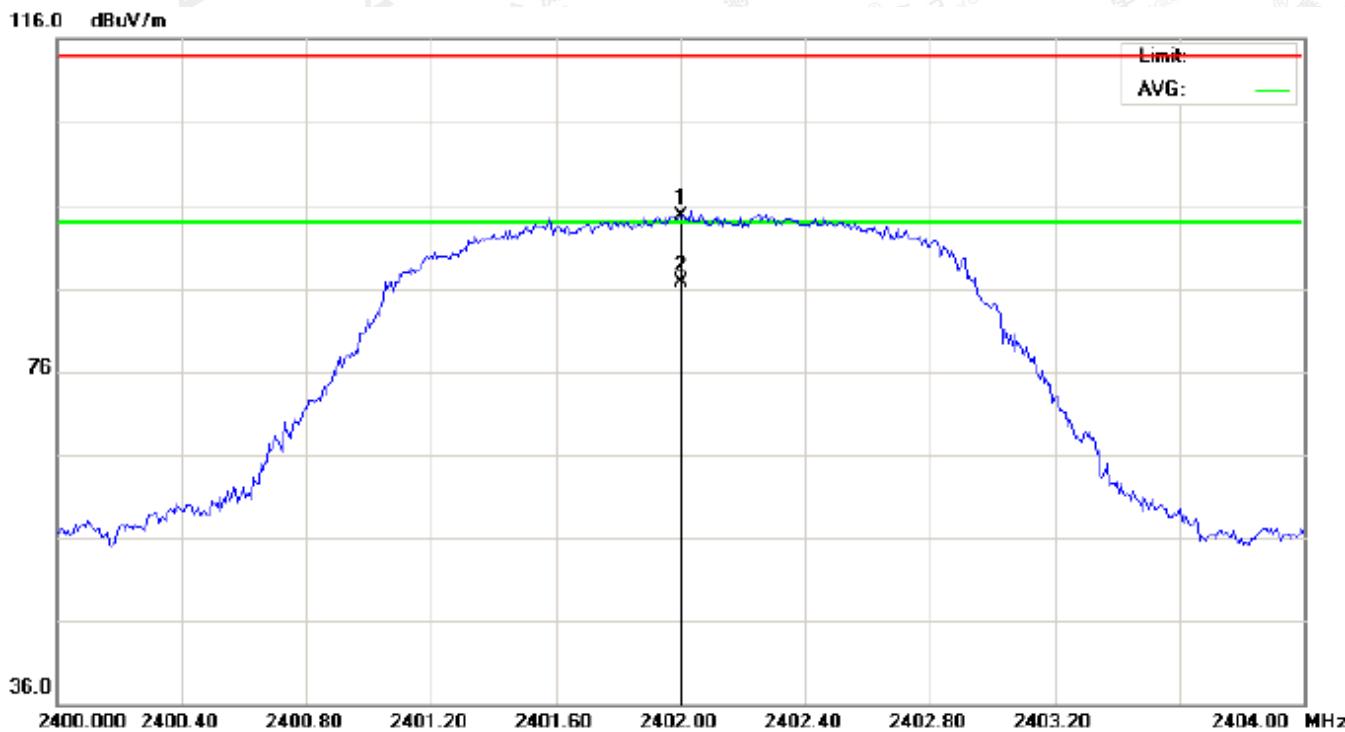
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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	84.37	10.32	94.69	114.00	-19.31	peak			
2	*	2402.000	76.37	10.32	86.69	94.00	-7.31	AVG	100	107	

**RESULT: PASS**

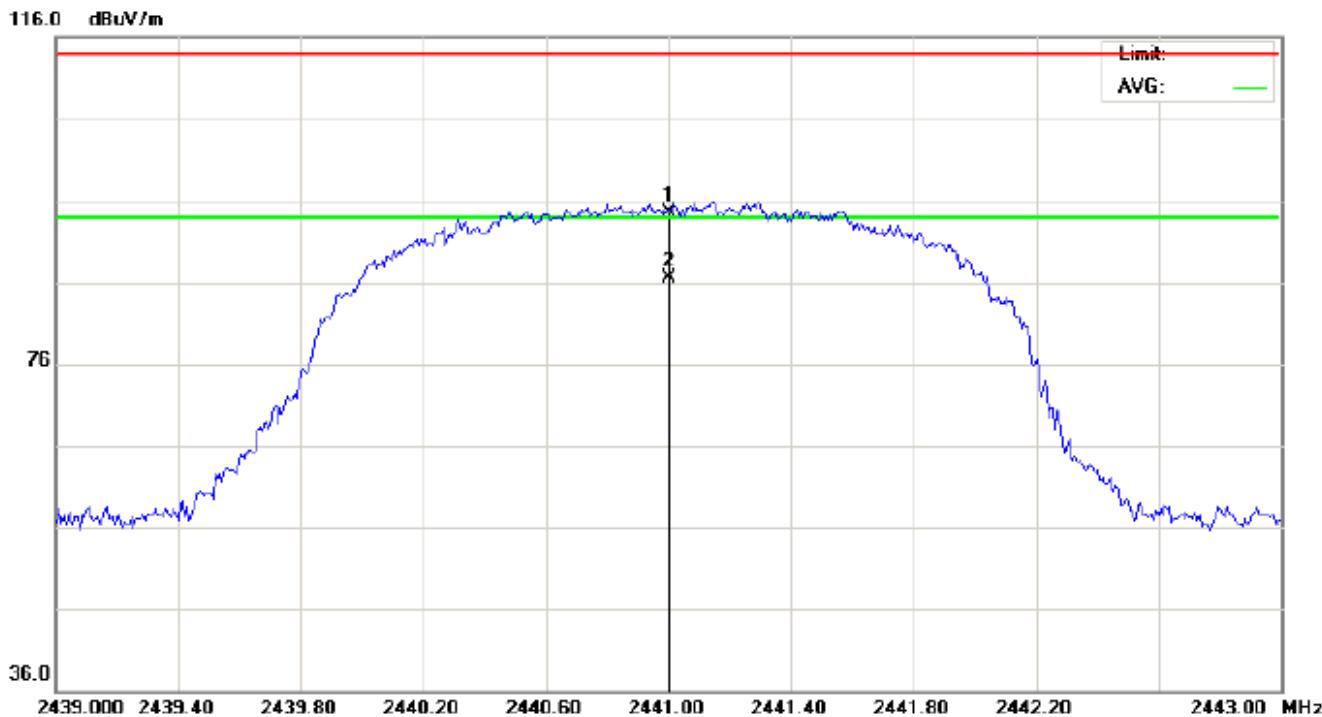
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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	84.15	10.36	94.51	114.00	-19.49	peak			
2	*	2441.000	76.16	10.36	86.52	94.00	-7.48	AVG	100	342	

**RESULT: PASS**

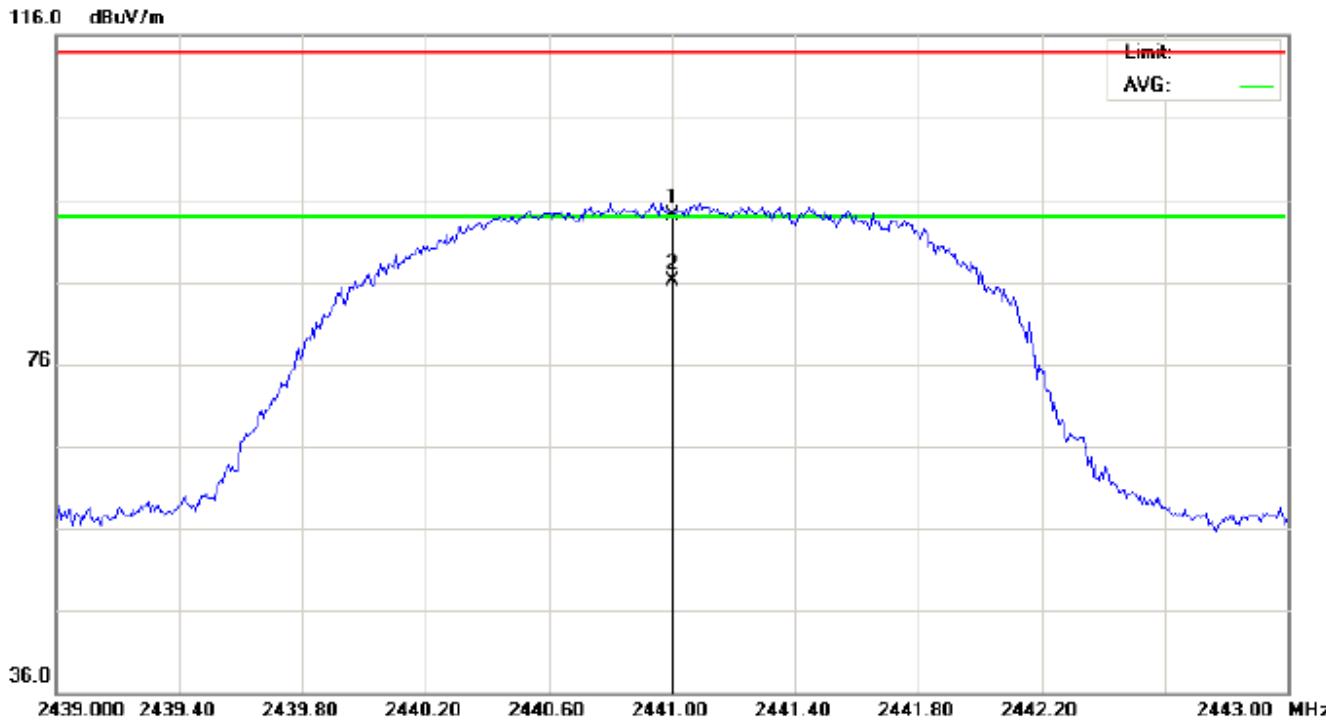
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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	83.73	10.36	94.09	114.00	-19.91	peak			
2	*	2441.000	75.72	10.36	86.08	94.00	-7.92	AVG	100	109	

**RESULT: PASS**

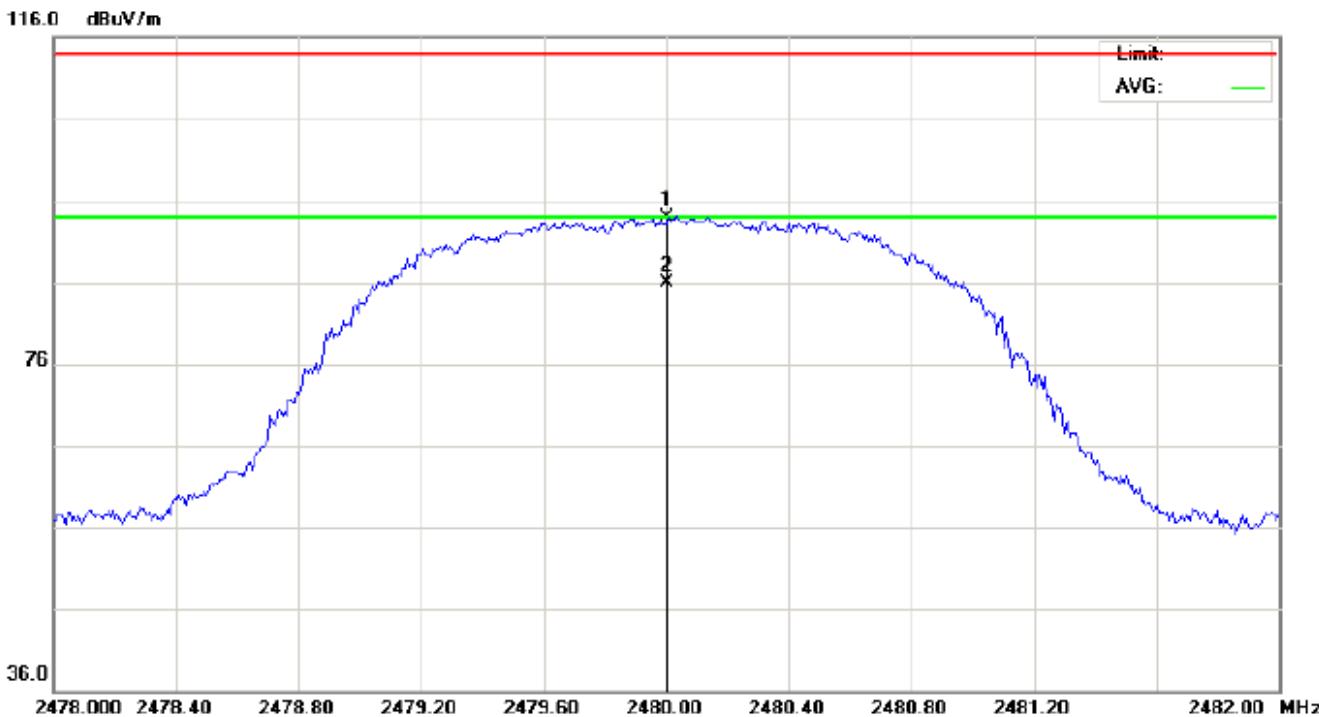
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RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna	Table	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		Height	Degree	
1		2480.000	83.51	10.41	93.92	114.00	-20.08	peak			
2	*	2480.000	75.53	10.41	85.94	94.00	-8.06	AVG	100	339	

**RESULT: PASS**

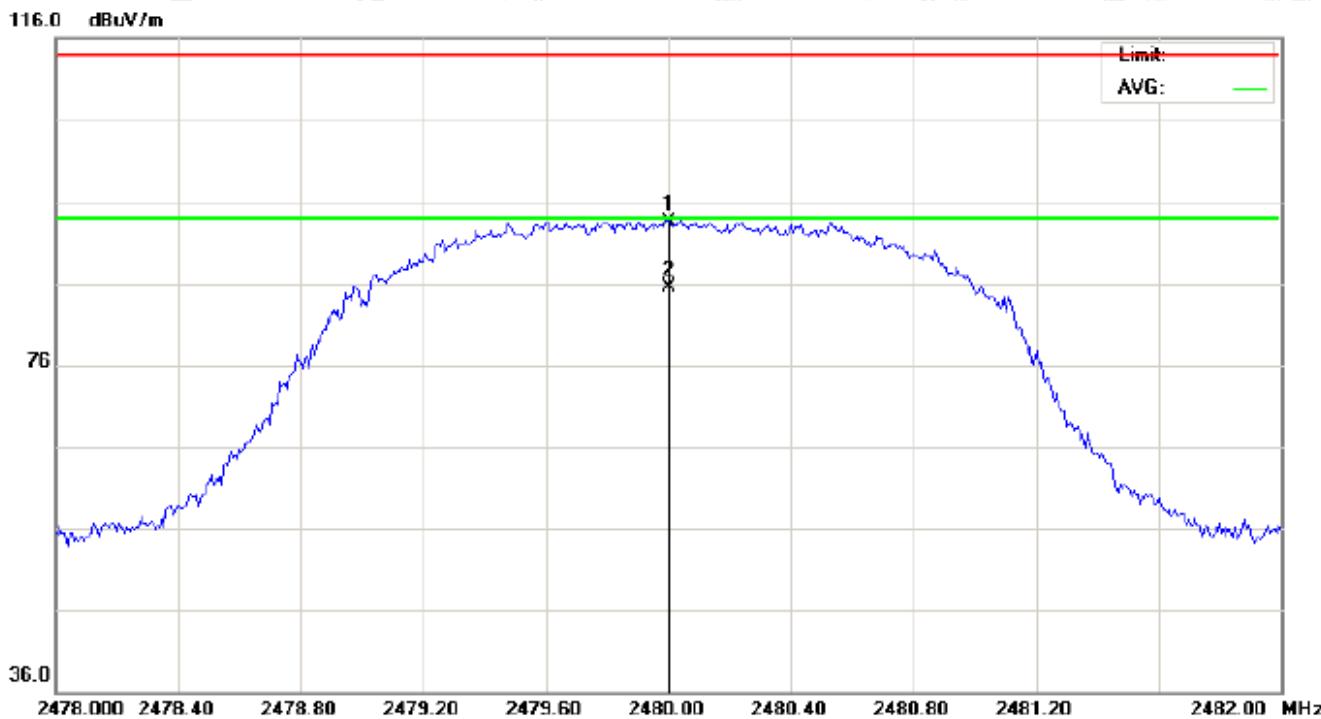
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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	83.09	10.41	93.50	114.00	-20.50	peak			
2	*	2480.000	75.06	10.41	85.47	94.00	-8.53	AVG	100	121	

**RESULT: PASS**

**Note:** Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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**Field strength of the fundamental signal****1Mbps Result:****Peak value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	84.85	10.32	95.17	114	-18.83	Horizontal
2402	84.37	10.32	94.69	114	-19.31	Vertical
2441	84.15	10.36	94.51	114	-19.49	Horizontal
2441	83.73	10.36	94.09	114	-19.91	Vertical
2480	83.51	10.41	93.92	114	-20.08	Horizontal
2480	83.09	10.41	93.50	114	-20.50	Vertical

**Average value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.89	10.32	87.21	94	-6.79	Horizontal
2402	76.37	10.32	86.69	94	-7.31	Vertical
2441	76.16	10.36	86.52	94	-7.48	Horizontal
2441	75.72	10.36	86.08	94	-7.92	Vertical
2480	75.53	10.41	85.94	94	-8.06	Horizontal
2480	75.06	10.41	85.47	94	-8.53	Vertical

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**2Mbps Result:****Peak value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	84.44	10.32	94.76	114	-19.24	Horizontal
2402	83.95	10.32	94.27	114	-19.73	Vertical
2441	83.82	10.36	94.18	114	-19.82	Horizontal
2441	83.35	10.36	93.71	114	-20.29	Vertical
2480	83.19	10.41	93.60	114	-20.40	Horizontal
2480	82.75	10.41	93.16	114	-20.84	Vertical

**Average value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.52	10.32	86.84	94	-7.16	Horizontal
2402	75.98	10.32	86.30	94	-7.70	Vertical
2441	75.75	10.36	86.11	94	-7.89	Horizontal
2441	75.37	10.36	85.73	94	-8.27	Vertical
2480	75.15	10.41	85.56	94	-8.44	Horizontal
2480	74.64	10.41	85.05	94	-8.95	Vertical

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**3Mbps Result:****Peak value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	84.07	10.32	94.39	114	-19.61	Horizontal
2402	83.50	10.32	93.82	114	-20.18	Vertical
2441	83.44	10.36	93.80	114	-20.20	Horizontal
2441	82.94	10.36	93.30	114	-20.70	Vertical
2480	82.82	10.41	93.23	114	-20.77	Horizontal
2480	82.38	10.41	92.79	114	-21.21	Vertical

**Average value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.15	10.32	86.47	94	-7.53	Horizontal
2402	75.53	10.32	85.85	94	-8.15	Vertical
2441	75.29	10.36	85.65	94	-8.35	Horizontal
2441	74.88	10.36	85.24	94	-8.76	Vertical
2480	74.69	10.41	85.10	94	-8.90	Horizontal
2480	74.26	10.41	84.67	94	-9.33	Vertical

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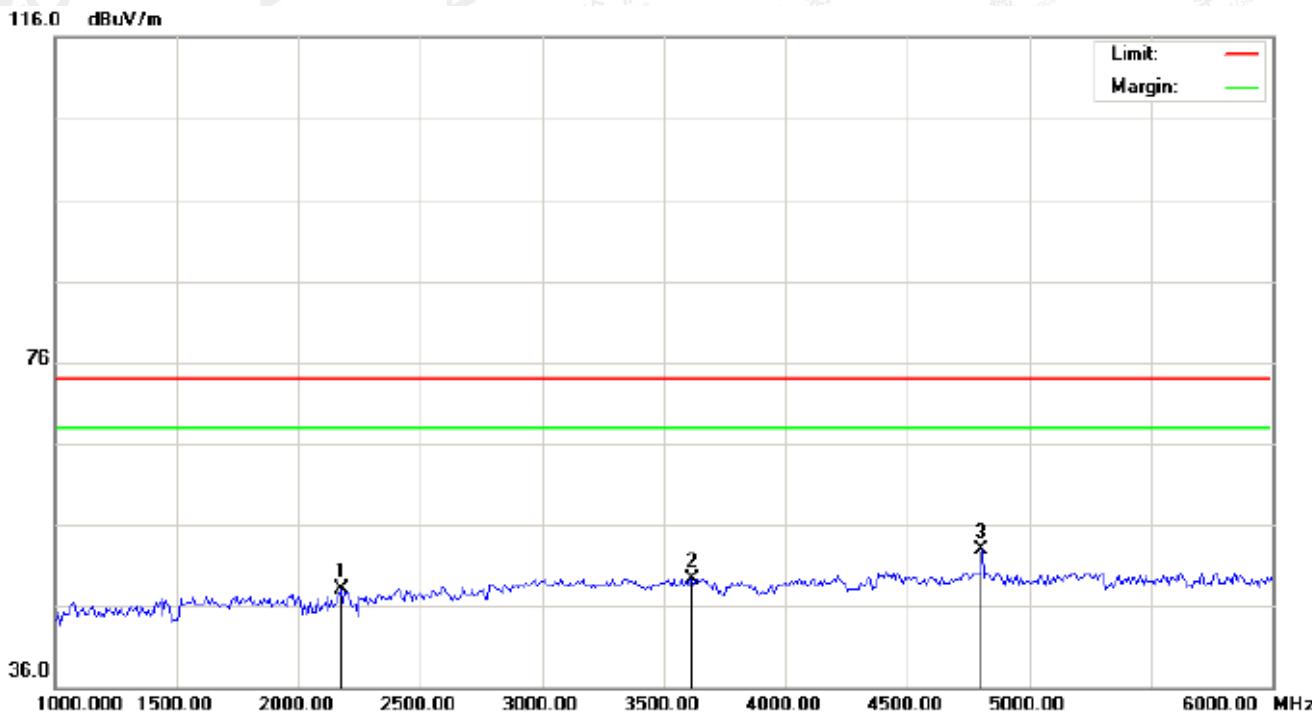


FOR BR/EDR

(Worst modulation: GFSK)

For Harmonics

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2175.000	38.00	10.07	48.07	74.00	-25.93	peak			
2		3616.667	36.55	12.83	49.38	74.00	-24.62	peak			
3	*	4804.000	45.21	7.69	52.90	74.00	-21.10	peak			

RESULT: PASS

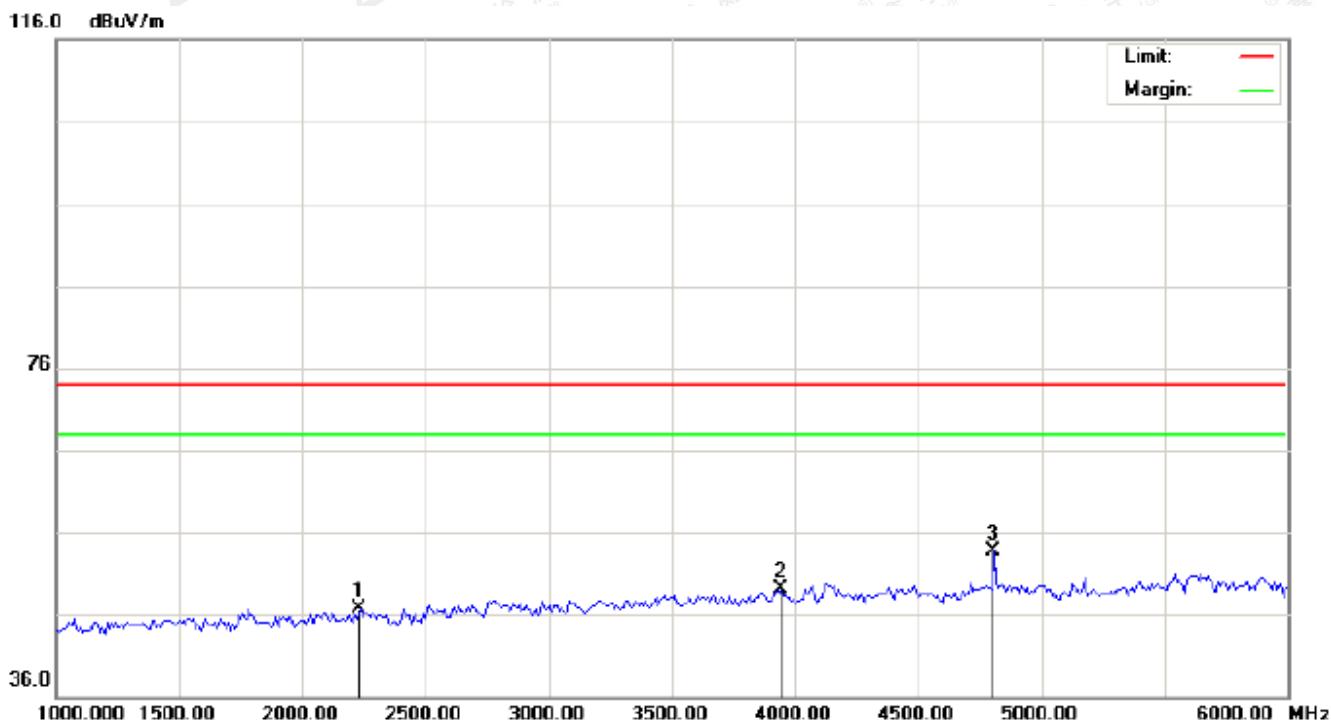
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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



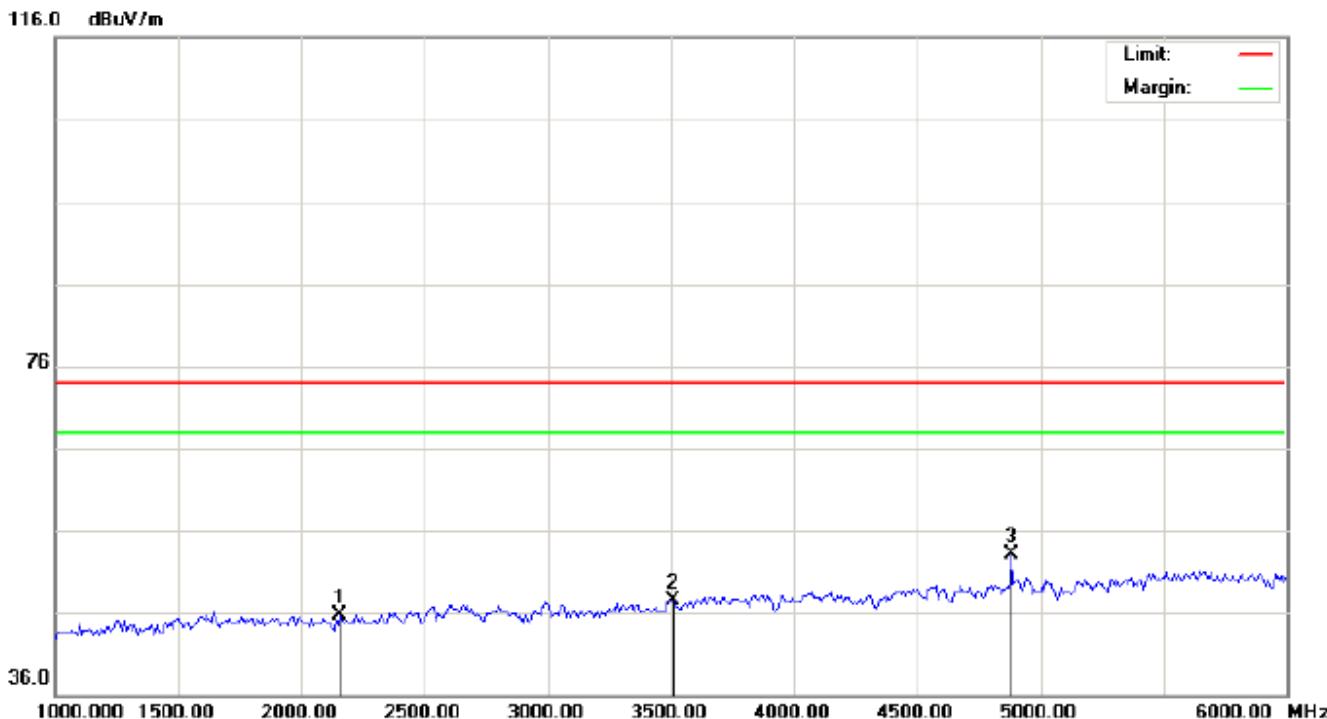
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2233.333	36.55	10.14	46.69	74.00	-27.31	peak			
2		3941.667	34.23	14.83	49.06	74.00	-24.94	peak			
3	*	4804.000	46.05	7.69	53.74	74.00	-20.26	peak			

**RESULT: PASS**

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



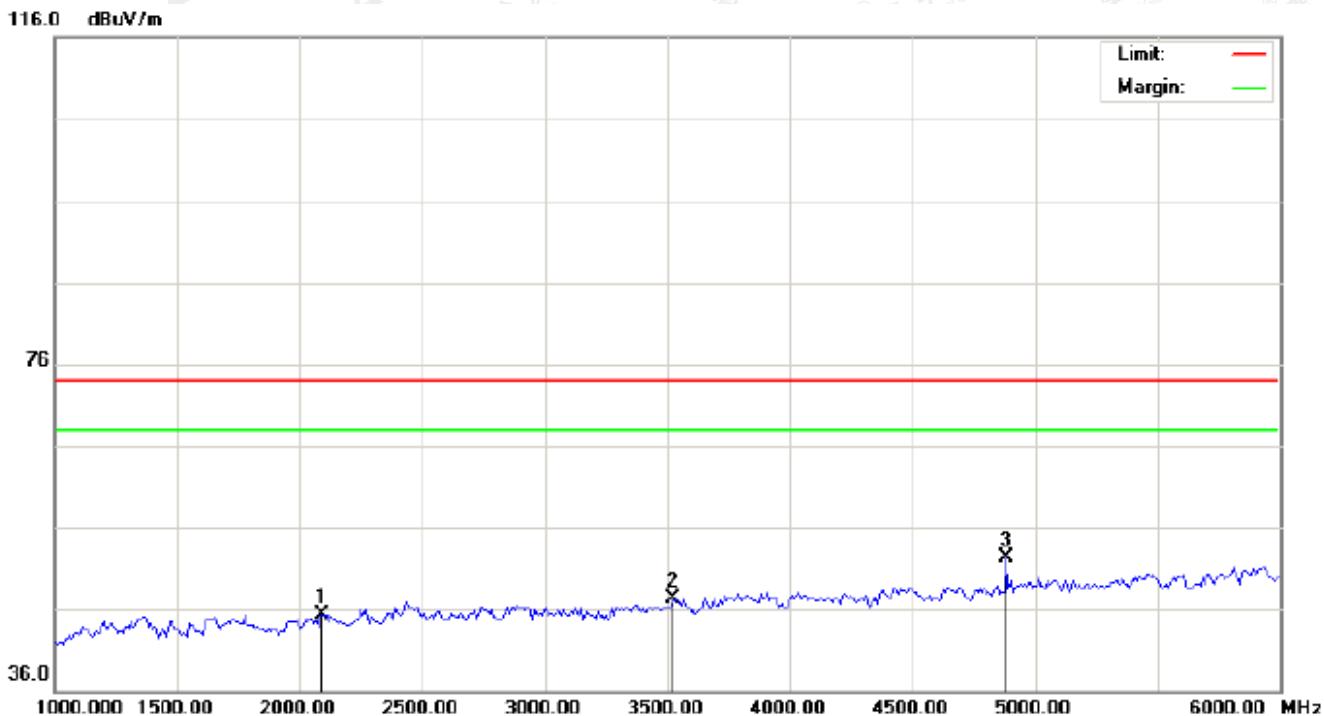
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2158.333	35.58	10.05	45.63	74.00	-28.37	peak			
2		3508.333	35.32	12.16	47.48	74.00	-26.52	peak			
3	*	4882.000	45.16	7.89	53.05	74.00	-20.95	peak			

**RESULT: PASS**

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2091.667	35.41	9.98	45.39	74.00	-28.61	peak			
2		3525.000	34.94	12.26	47.20	74.00	-26.80	peak			
3	*	4882.000	44.39	7.89	52.28	74.00	-21.72	peak			

**RESULT: PASS**

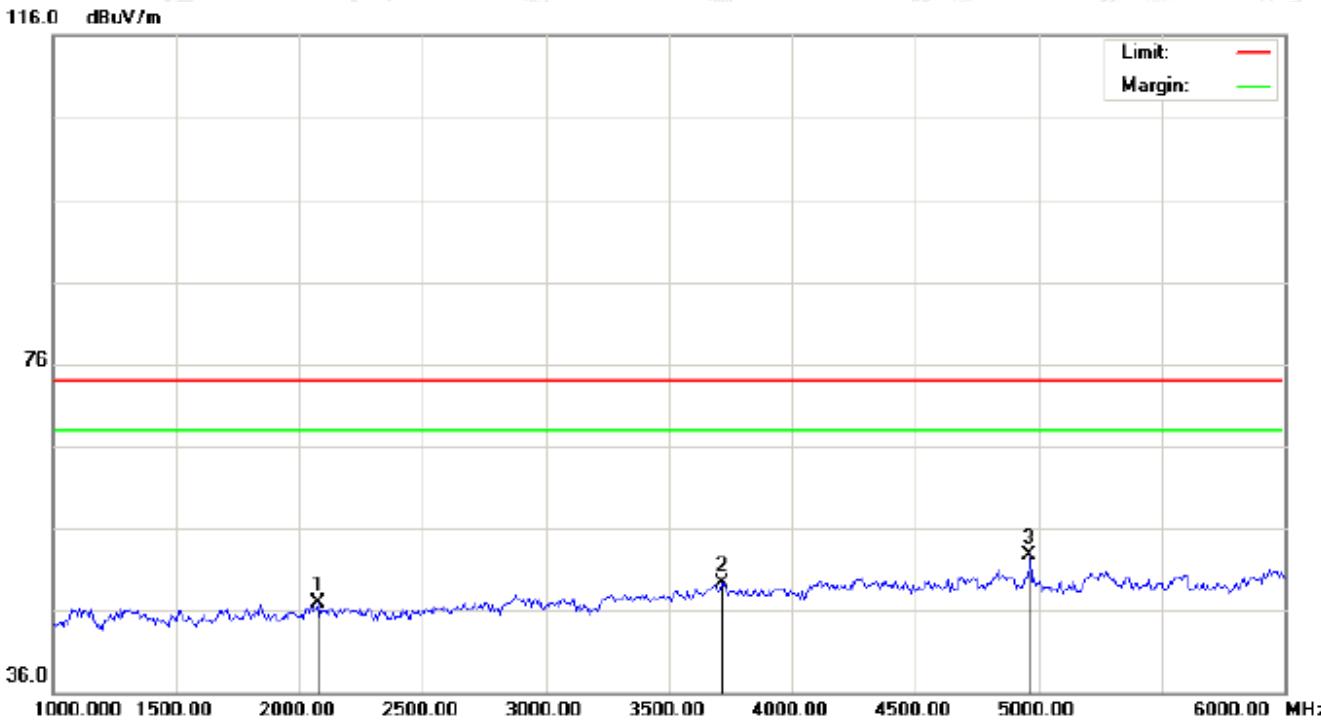
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RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2075.000	36.96	9.96	46.92	74.00	-27.08	peak			
2		3716.667	35.85	13.44	49.29	74.00	-24.71	peak			
3	*	4960.000	44.60	8.09	52.69	74.00	-21.31	peak			

**RESULT: PASS**

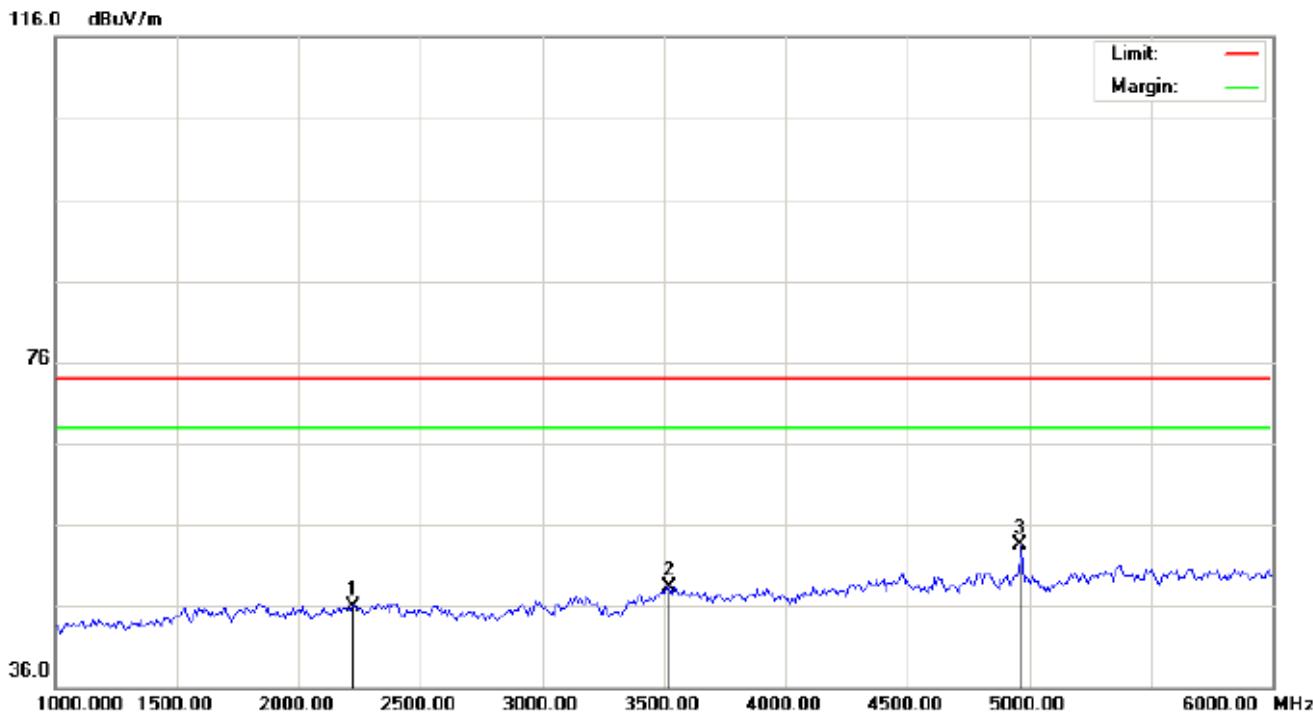
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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2225.000	35.79	10.13	45.92	74.00	-28.08	peak			
2		3525.000	36.02	12.26	48.28	74.00	-25.72	peak			
3	*	4960.000	45.41	8.09	53.50	74.00	-20.50	peak			

**RESULT: PASS**

**Note:** 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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## 10. BAND EDGE EMISSION

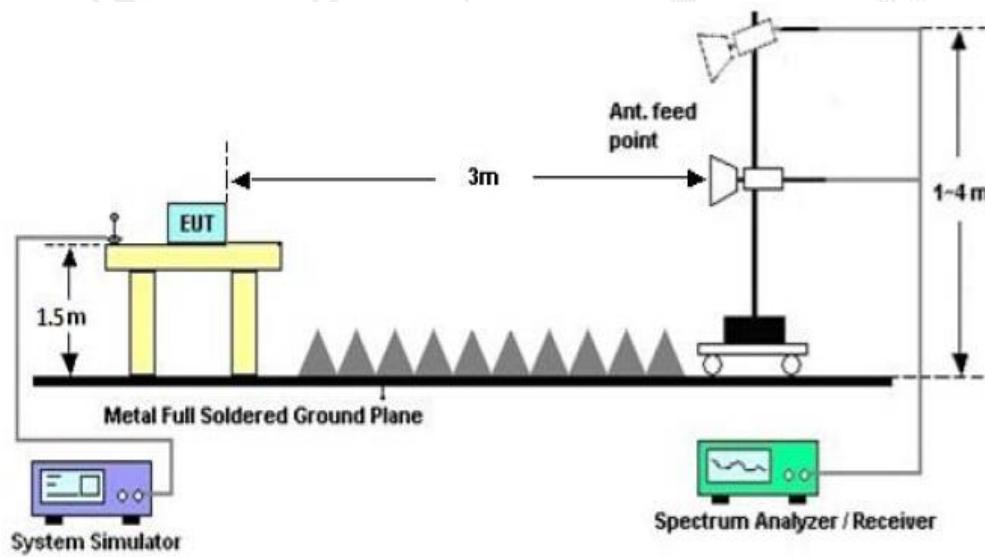
### 10.1. MEASUREMENT PROCEDURE

1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start frequency(MHz)	Stop frequency(MHz)
2200	2405
2478	2500

### 10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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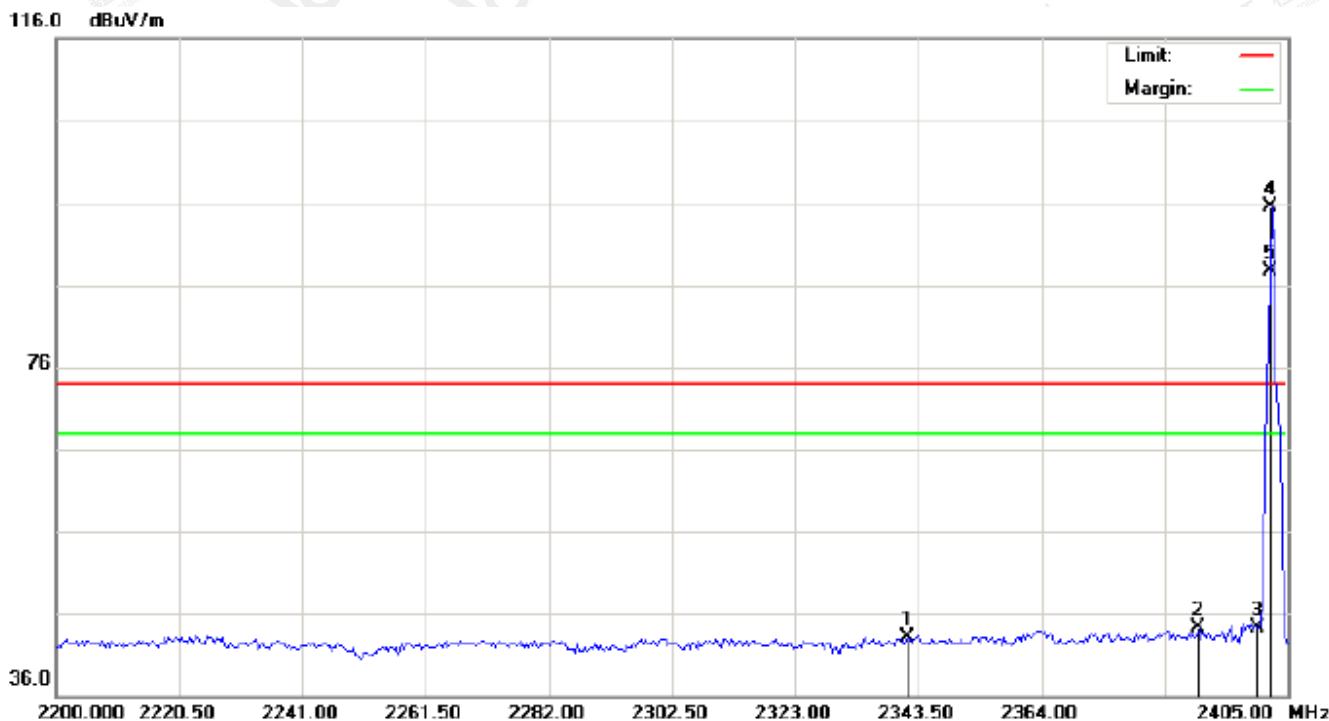


### 10.3 RADIATED TEST RESULT

FOR BR/EDR

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal

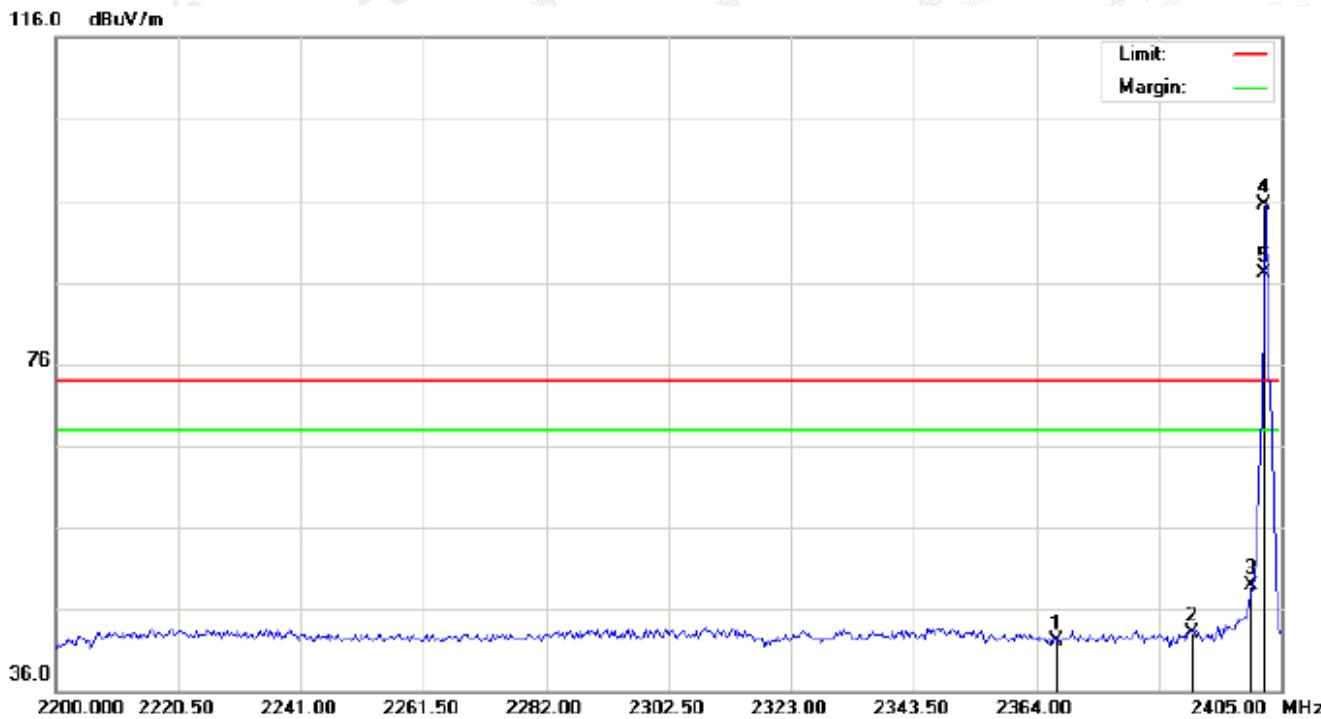


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2341.792	32.91	10.26	43.17	74.00	-30.83	peak			
2		2390.000	34.00	10.31	44.31	74.00	-29.69	peak			
3		2400.000	33.97	10.32	44.29	74.00	-29.71	peak			
4	*	2402.000	85.22	10.32	95.54	74.00	21.54	peak			
5	X	2402.000	77.32	10.32	87.64	74.00	13.64	AVG	100	334	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

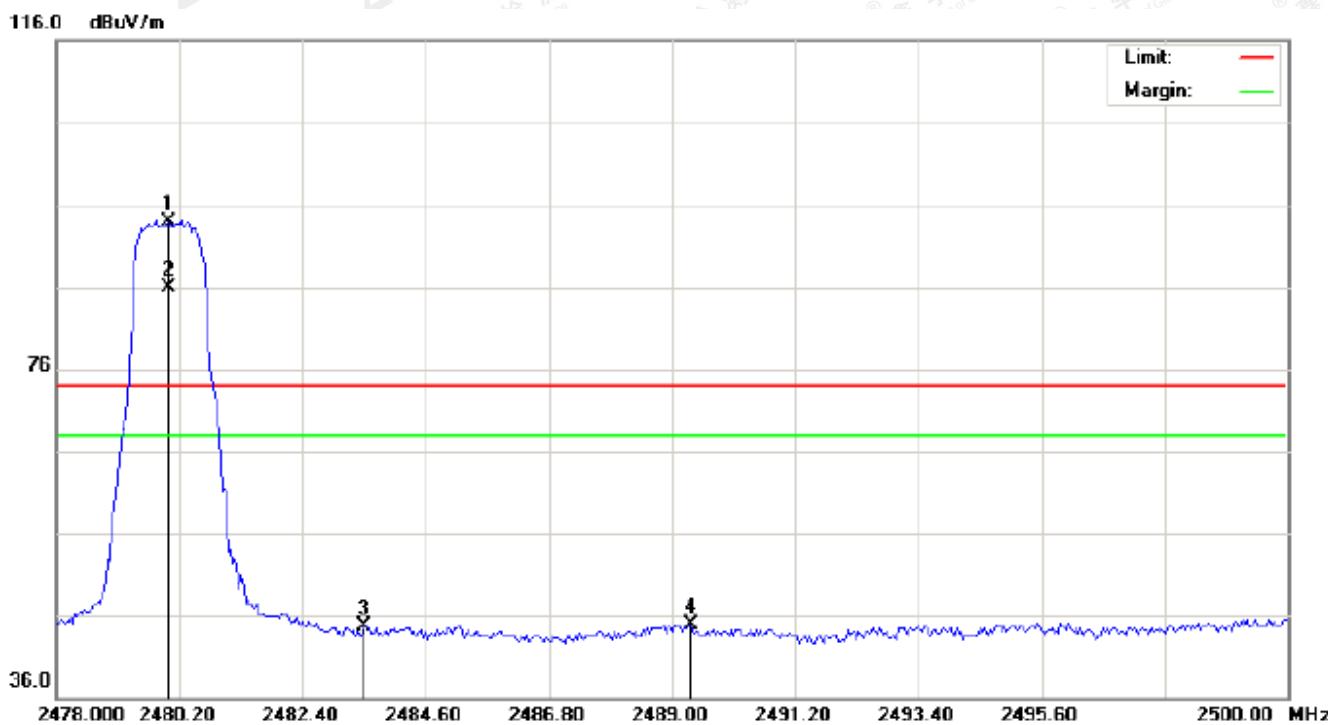


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2367.417	31.91	10.28	42.19	74.00	-31.81	peak			
2		2390.000	32.71	10.31	43.02	74.00	-30.98	peak			
3		2400.000	38.56	10.32	48.88	74.00	-25.12	peak			
4	*	2402.000	85.09	10.32	95.41	74.00	21.41	peak			
5	X	2402.000	76.80	10.32	87.12	74.00	13.12	AVG	100	116	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

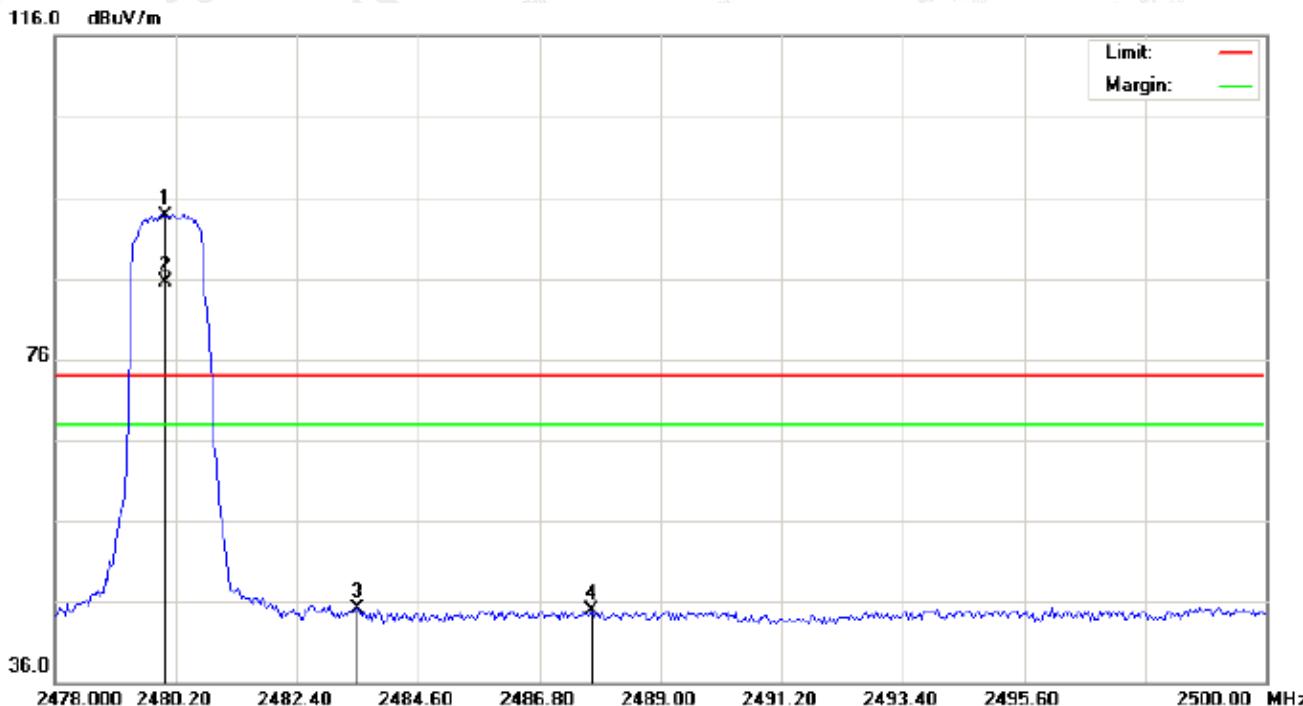


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	83.55	10.41	93.96	74.00	19.96	peak			
2	X	2480.000	75.56	10.41	85.97	74.00	11.97	AVG	100	336	
3		2483.500	34.19	10.41	44.60	74.00	-29.40	peak			
4		2489.330	34.46	10.42	44.88	74.00	-29.12	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	83.32	10.41	93.73	74.00	19.73	peak			
2	X	2480.000	75.10	10.41	85.51	74.00	11.51	AVG	100	112	
3		2483.500	34.76	10.41	45.17	74.00	-28.83	peak			
4		2487.753	34.45	10.42	44.87	74.00	-29.13	peak			

**RESULT: PASS**

**Note:** Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

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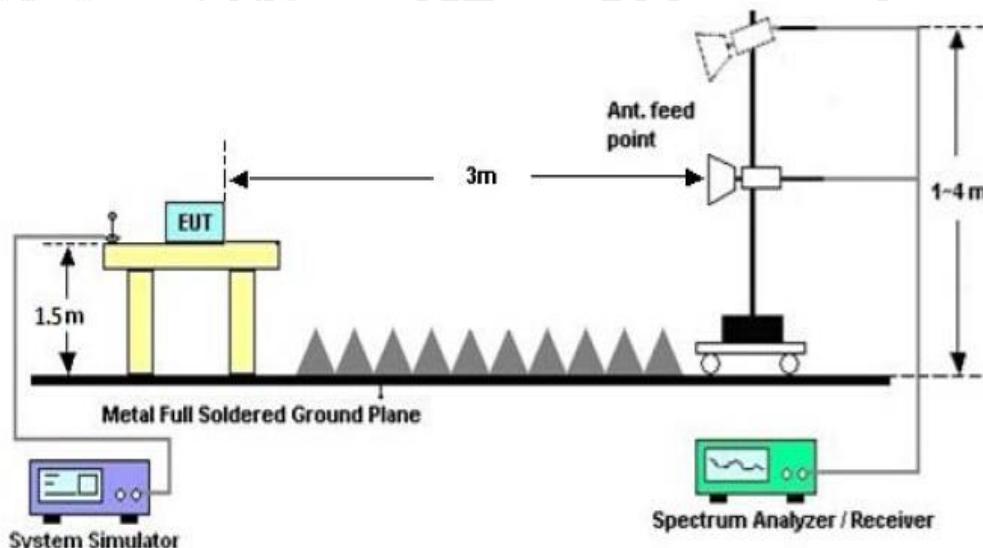


## 11. 20DB BANDWIDTH

### 11.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel  
 $RBW \geq 1\%$  of the 20 dB bandwidth,  $VBW \geq 3RBW$ ; Sweep = auto; Detector function = peak
3. Set SPA Trace 1 Max hold, then View.

### 11.2. TEST SET-UP



### 11.3. LIMITS AND MEASUREMENT RESULTS

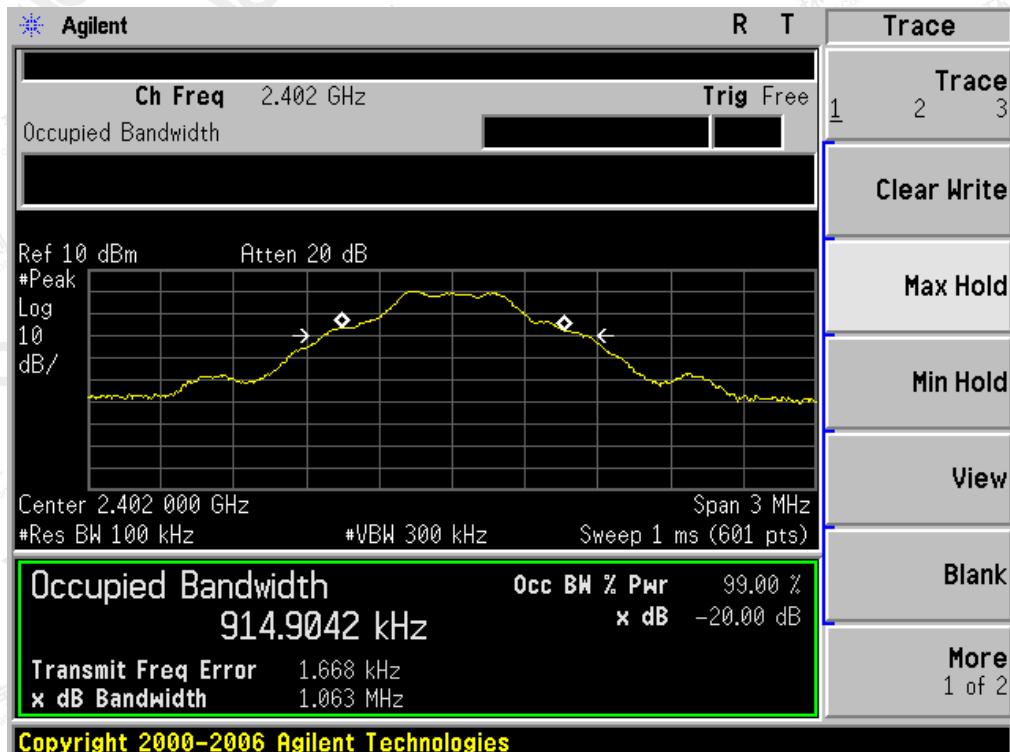
FOR BR/EDR

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT					
Applicable Limits	Measurement Result			Result	
	Test Data (MHz)		-20dB BW(MHz)		
		99%OBW (MHz)			
N/A	Low Channel	0.915	1.063	PASS	
	Middle Channel	0.903	1.054	PASS	
	High Channel	0.916	1.080	PASS	

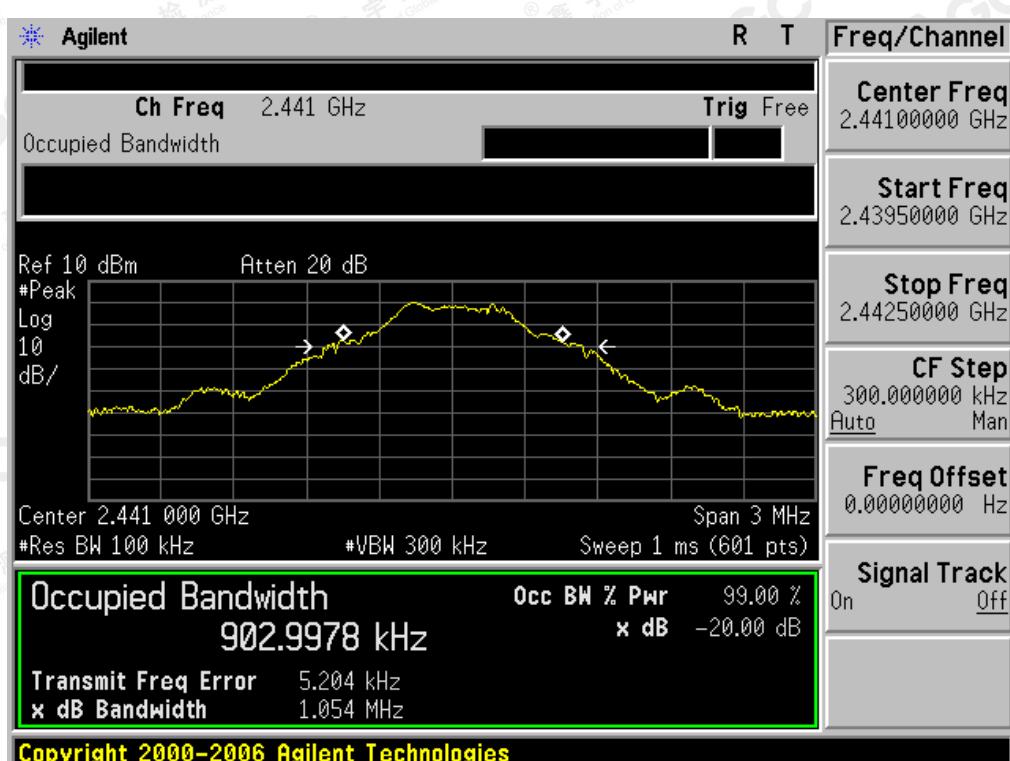
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## TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



## TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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## TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

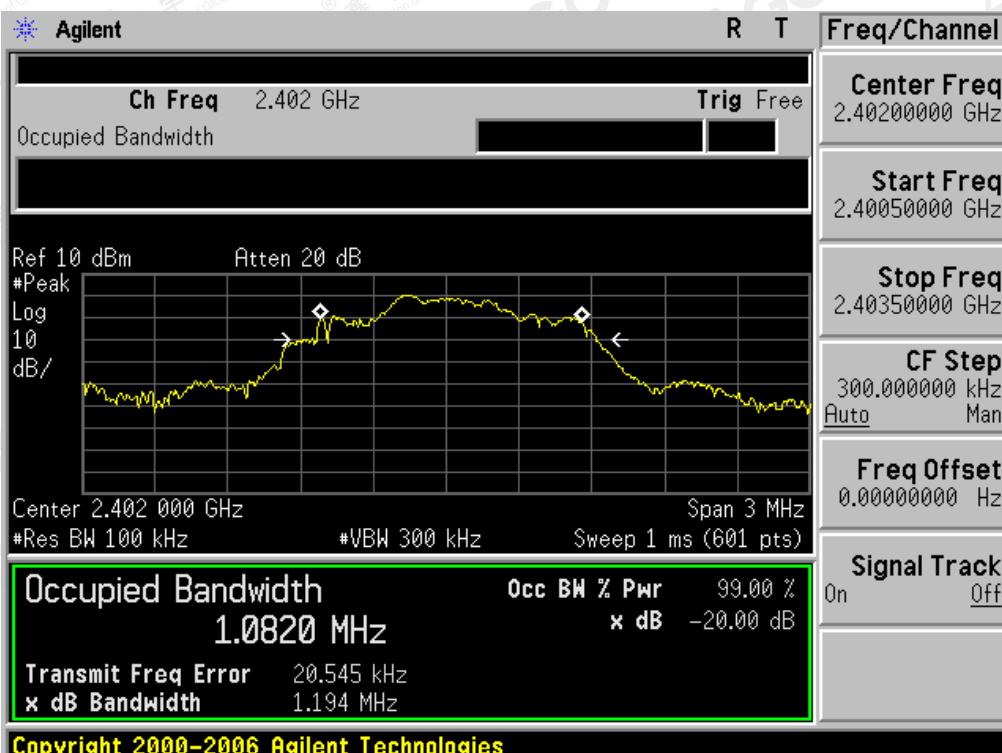


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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	1.082	1.194	PASS
	Middle Channel	1.096	1.176	PASS
	High Channel	1.097	1.190	PASS

## TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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## TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



## TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	1.081	1.224	PASS
	Middle Channel	1.009	1.170	PASS
	High Channel	1.097	1.204	PASS

## TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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## TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



## TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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## 12. FCC LINE CONDUCTED EMISSION TEST

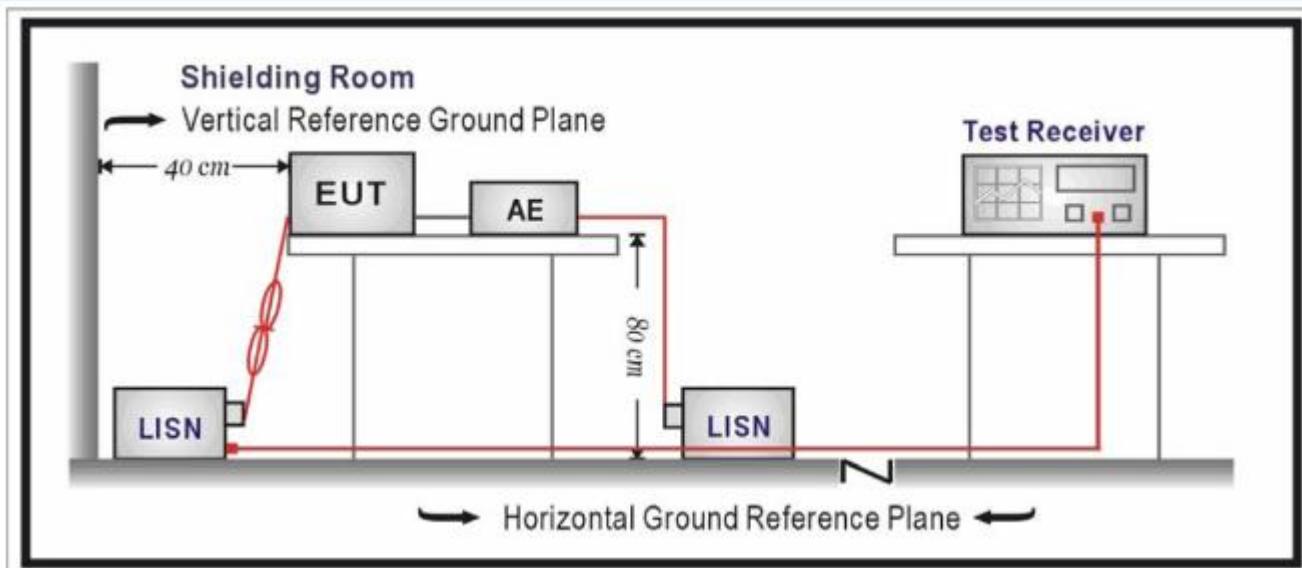
### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P. (dBuV)	Average( dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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### 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received voltage by adapter which received 120V/60Hzpower by a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

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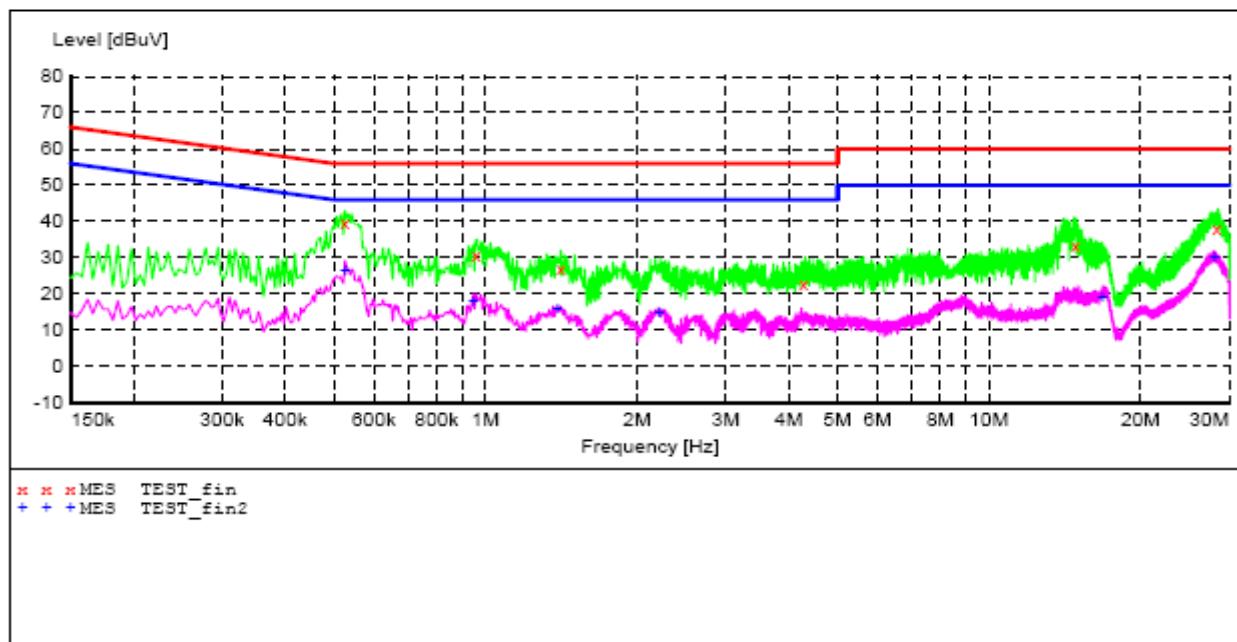


## 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter 1(worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.526000	39.70	9.9	56	16.3	QP	L1	FLO
0.958000	30.70	10.1	56	25.3	QP	L1	FLO
1.410000	27.10	10.0	56	28.9	QP	L1	FLO
4.282000	23.00	10.2	56	33.0	QP	L1	FLO
14.834000	33.20	9.5	60	26.8	QP	L1	FLO
28.290000	37.90	10.9	60	22.1	QP	L1	FLO

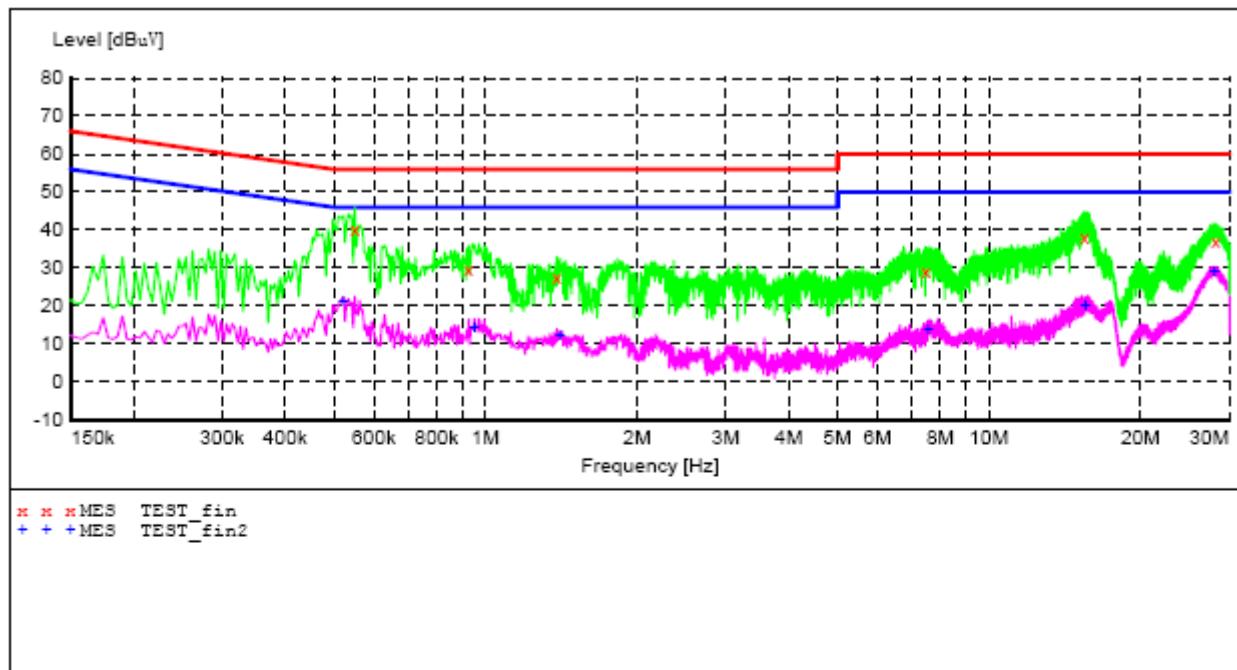
### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.526000	26.80	9.9	46	19.2	AV	L1	FLO
0.946000	17.90	10.1	46	28.1	AV	L1	FLO
1.390000	16.20	10.0	46	29.8	AV	L1	FLO
2.214000	15.10	9.9	46	30.9	AV	L1	FLO
16.810000	19.20	9.5	50	30.8	AV	L1	FLO
28.078000	30.20	10.9	50	19.8	AV	L1	FLO

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### Line Conducted Emission Test Line 2-N



#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.550000	40.00	9.9	56	16.0	QP	N	FLO
0.926000	29.90	10.1	56	26.1	QP	N	FLO
1.386000	27.40	10.0	56	28.6	QP	N	FLO
7.482000	29.10	9.9	60	30.9	QP	N	FLO
15.478000	38.10	9.5	60	21.9	QP	N	FLO
28.182000	37.00	10.9	60	23.0	QP	N	FLO

#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.522000	21.10	9.9	46	24.9	AV	N	FLO
0.950000	14.50	10.1	46	31.5	AV	N	FLO
1.406000	12.20	10.0	46	33.8	AV	N	FLO
7.570000	14.00	9.9	50	36.0	AV	N	FLO
15.554000	20.30	9.5	50	29.7	AV	N	FLO
27.970000	29.30	10.9	50	20.7	AV	N	FLO

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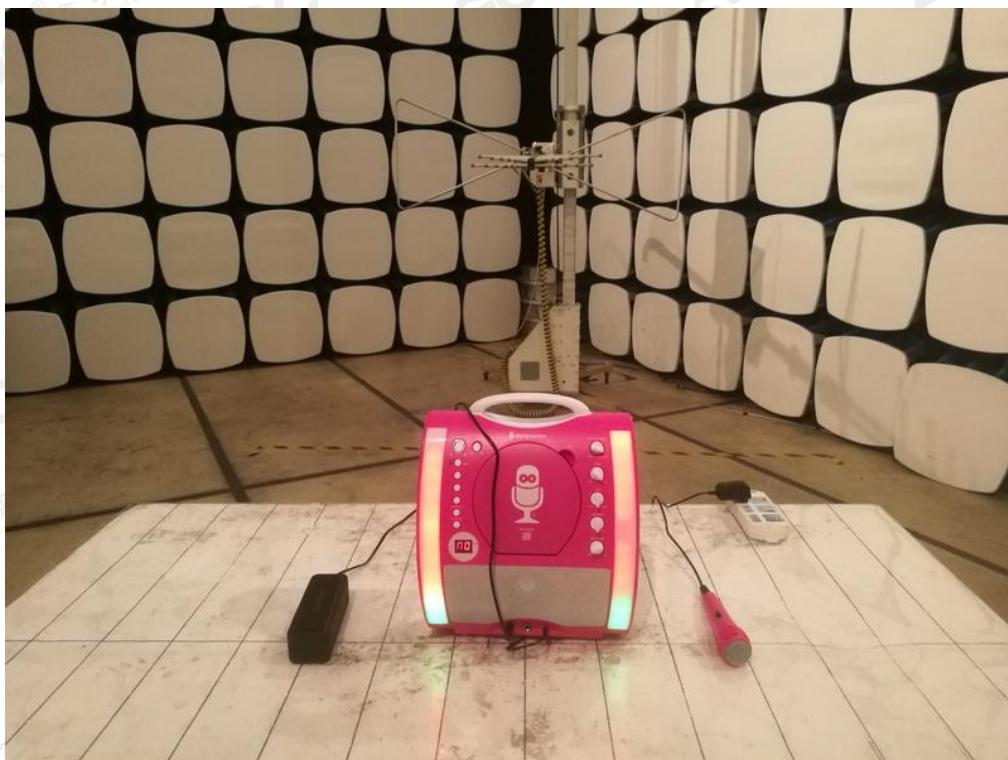


## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP

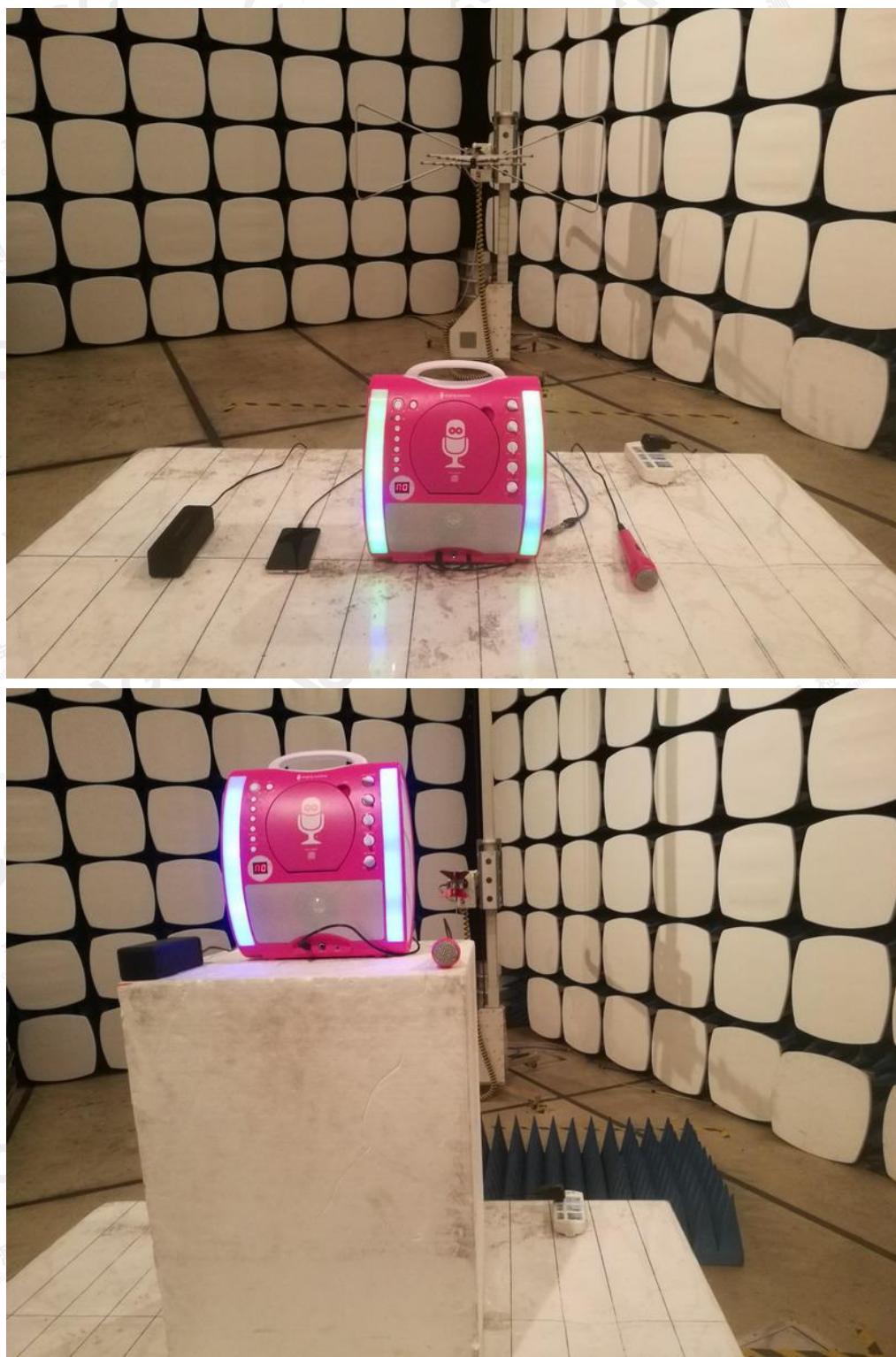


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**APPENDIX B: PHOTOGRAPHS OF EUT**  
**TOTAL VIEW OF EUT**



**TOP VIEW OF EUT**



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## BOTTOM VIEW OF EUT



## FRONT VIEW OF EUT



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## BACK VIEW OF EUT



## LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)-1



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VIEW OF EUT (PORT)-2



VIEW OF EUT (PORT)-3



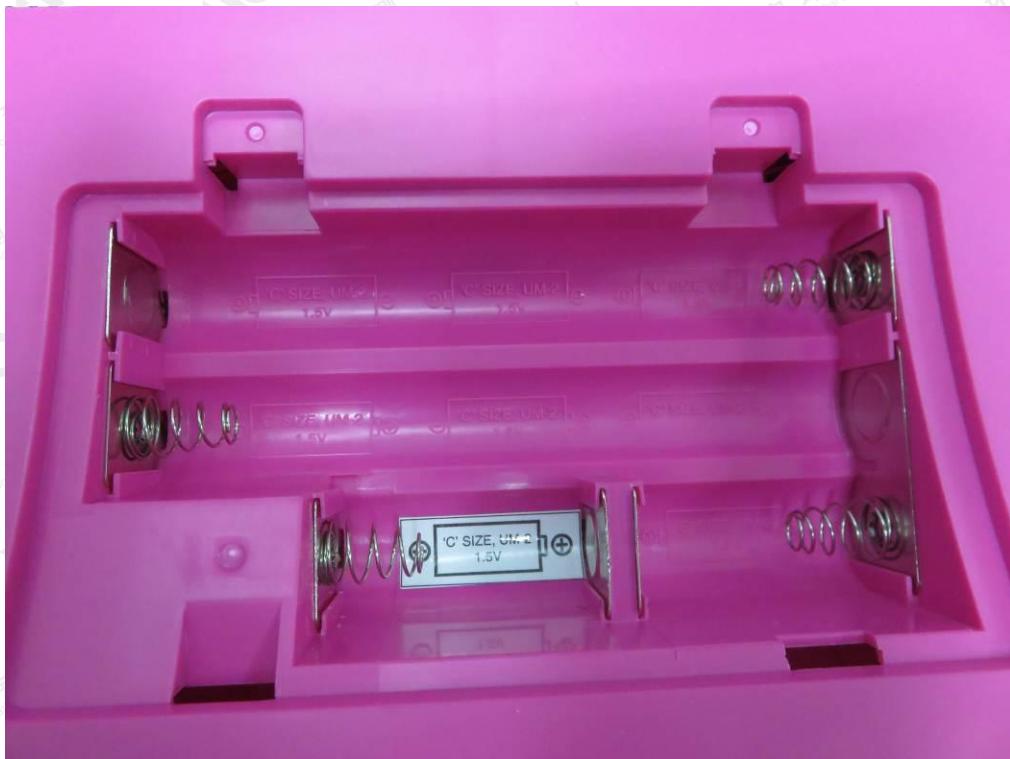
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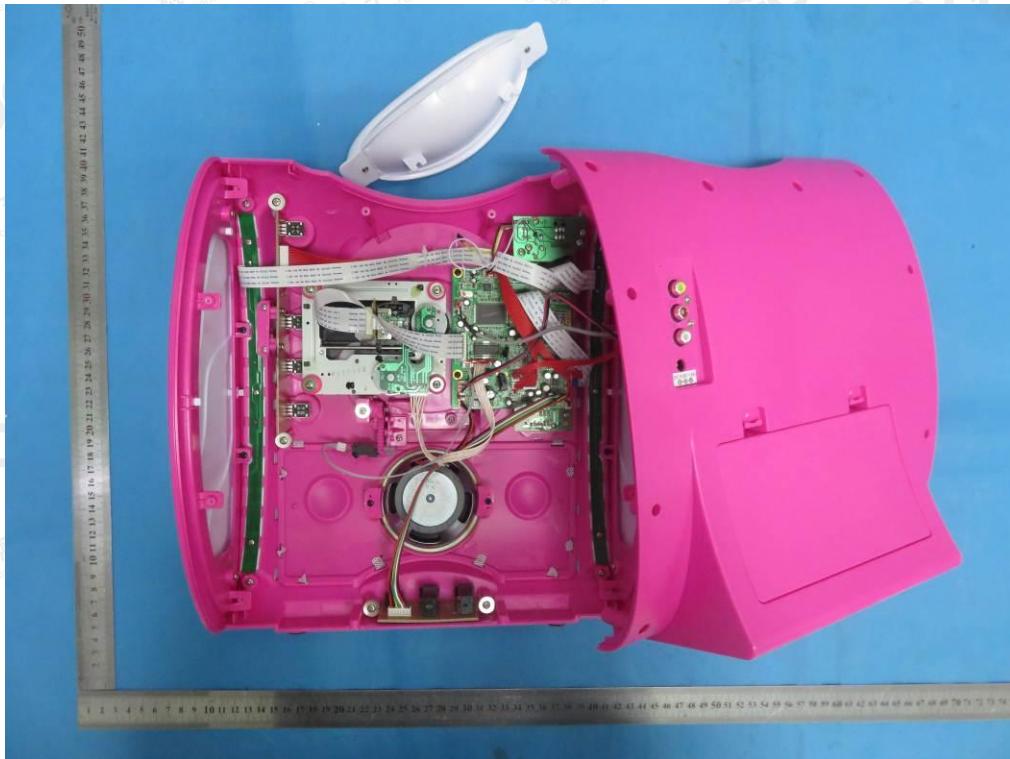
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## VIEW OF EUT (PORT)-4



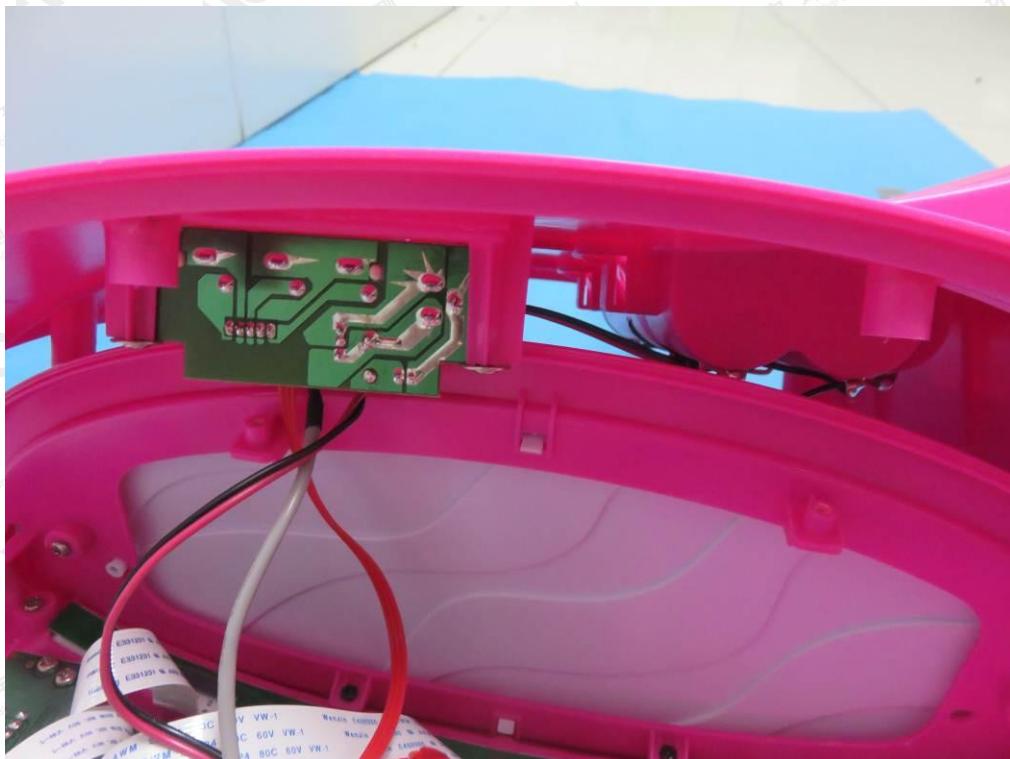
OPEN VIEW OF EUT-1



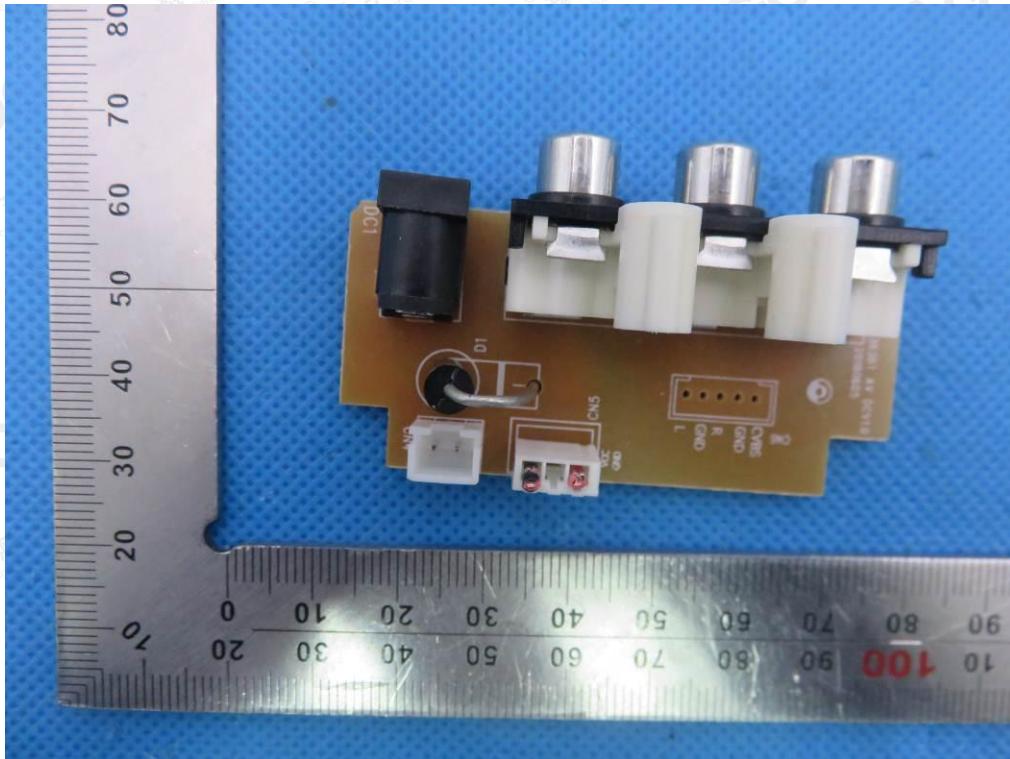
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## OPEN VIEW OF EUT-2



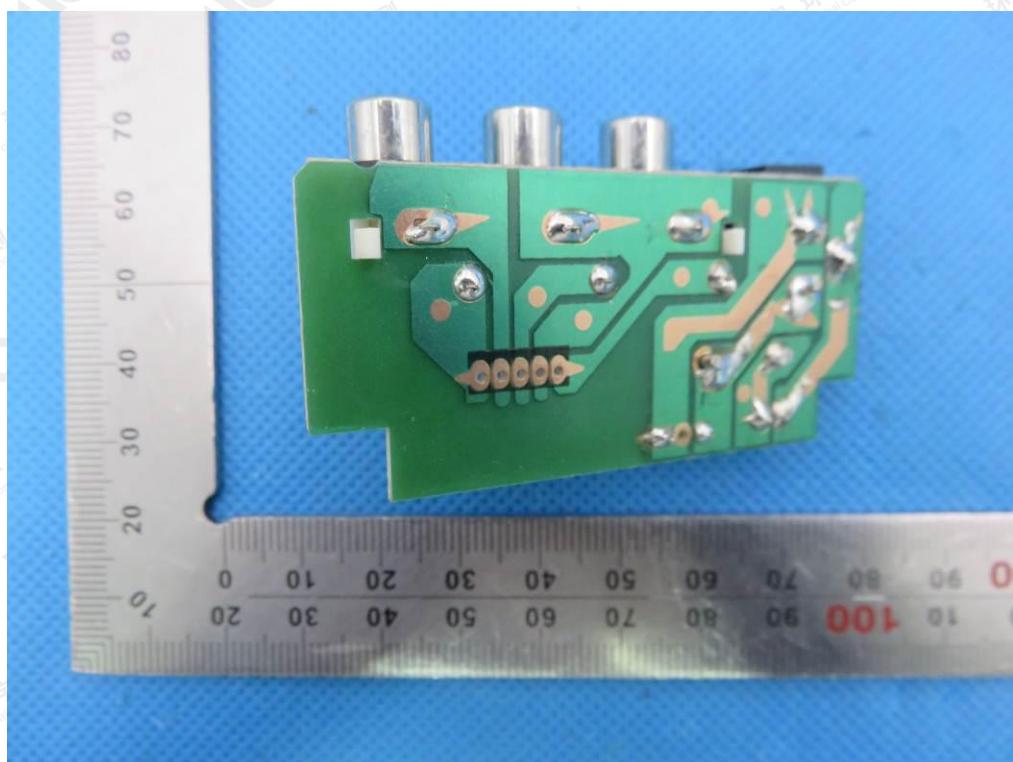
## INTERNAL VIEW OF EUT-1



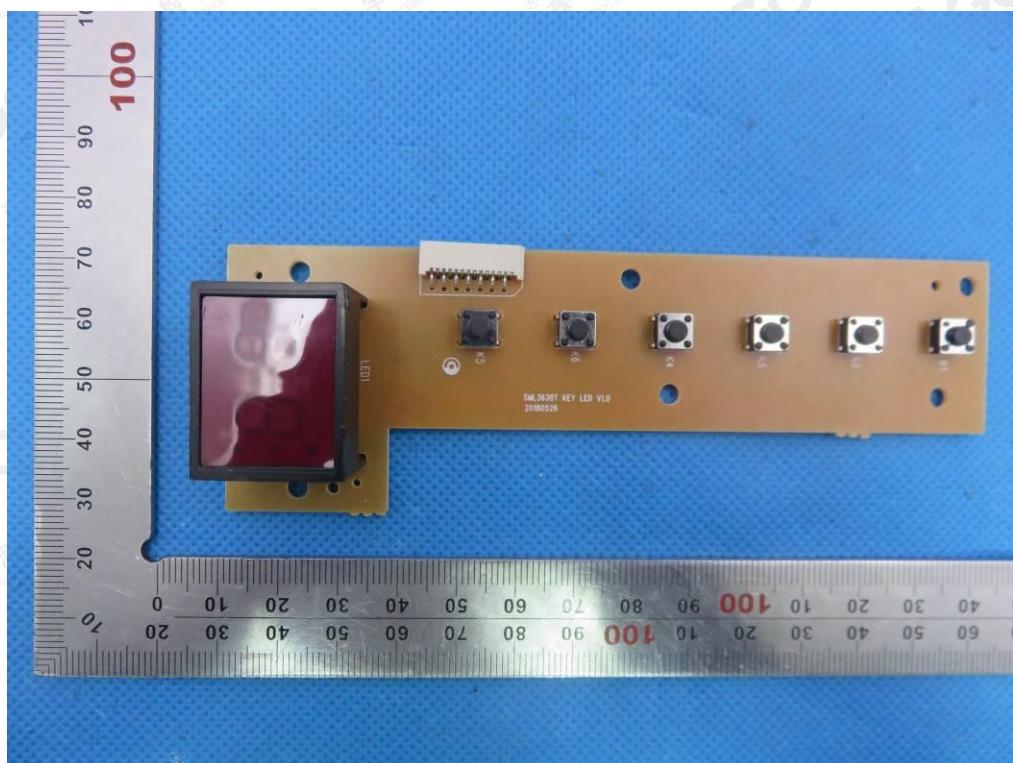
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## INTERNAL VIEW OF EUT-2



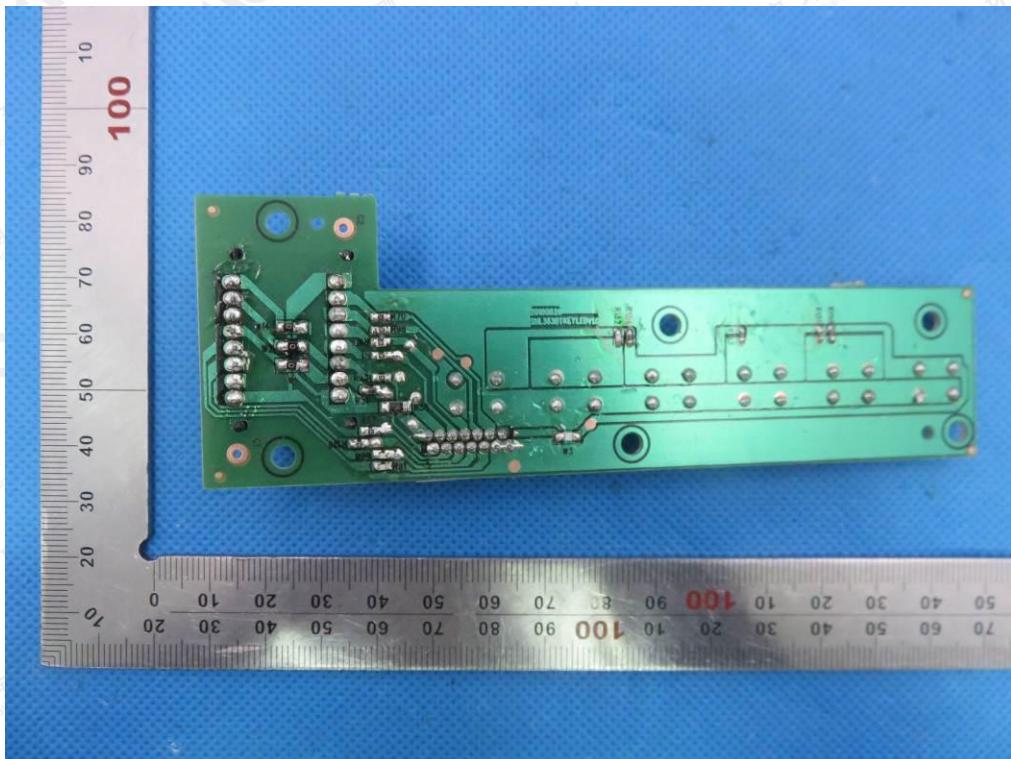
## INTERNAL VIEW OF EUT-3



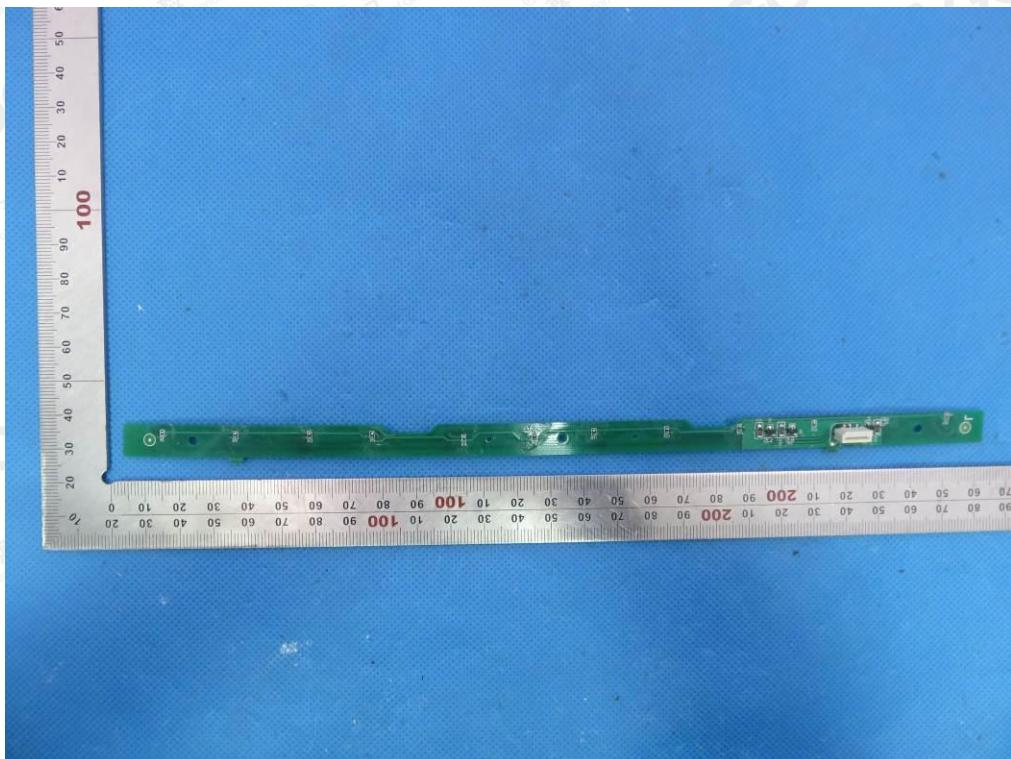
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## INTERNAL VIEW OF EUT-4



## INTERNAL VIEW OF EUT-5



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## INTERNAL VIEW OF EUT-6



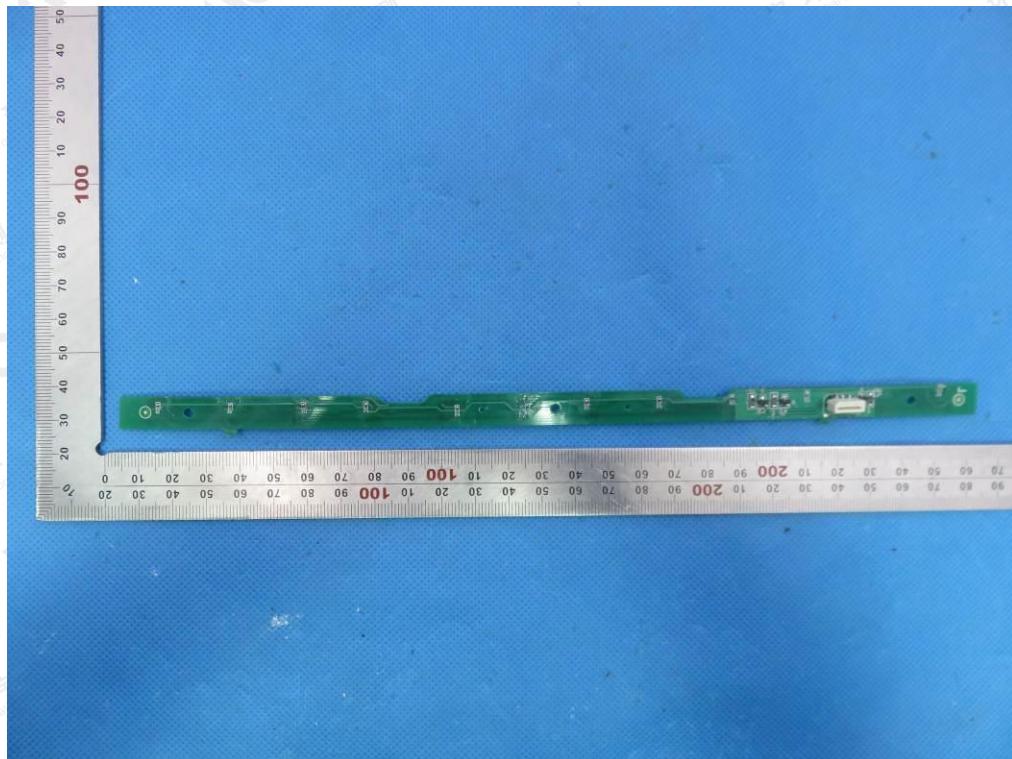
## INTERNAL VIEW OF EUT-7



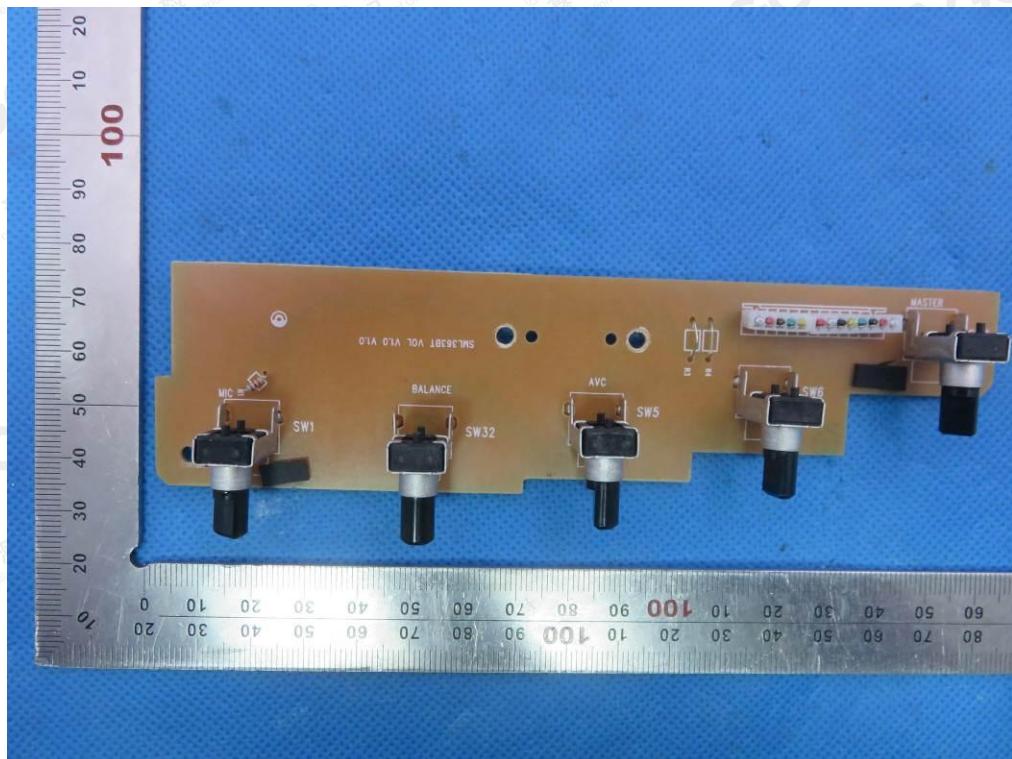
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## INTERNAL VIEW OF EUT-8



## INTERNAL VIEW OF EUT-9



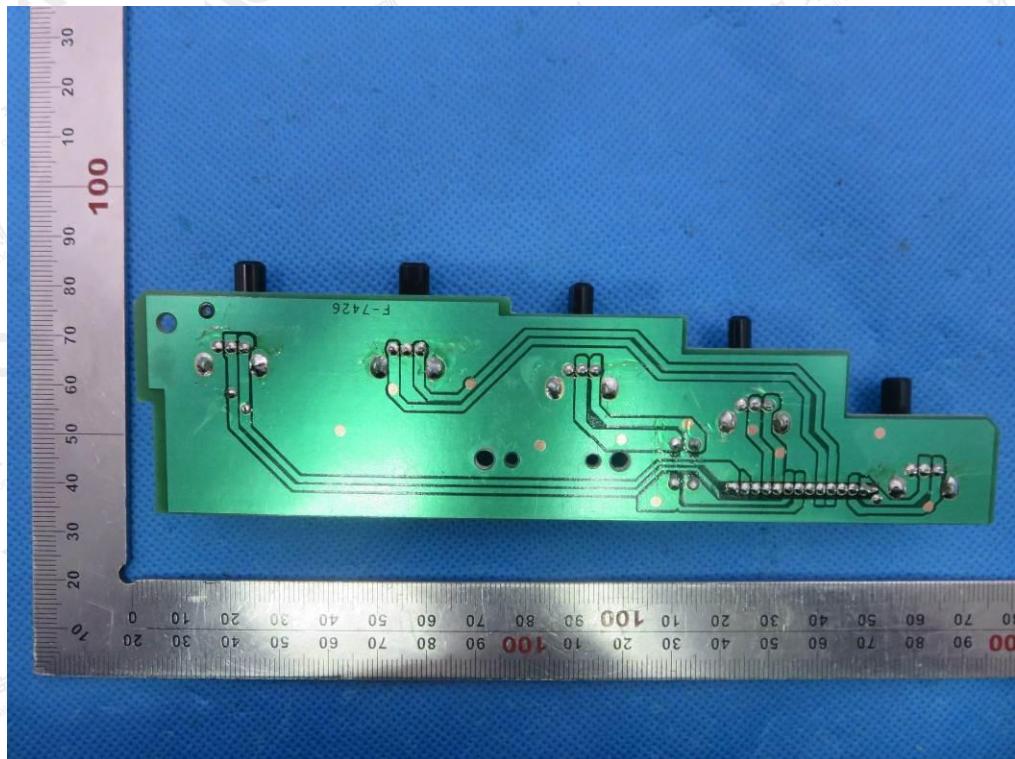
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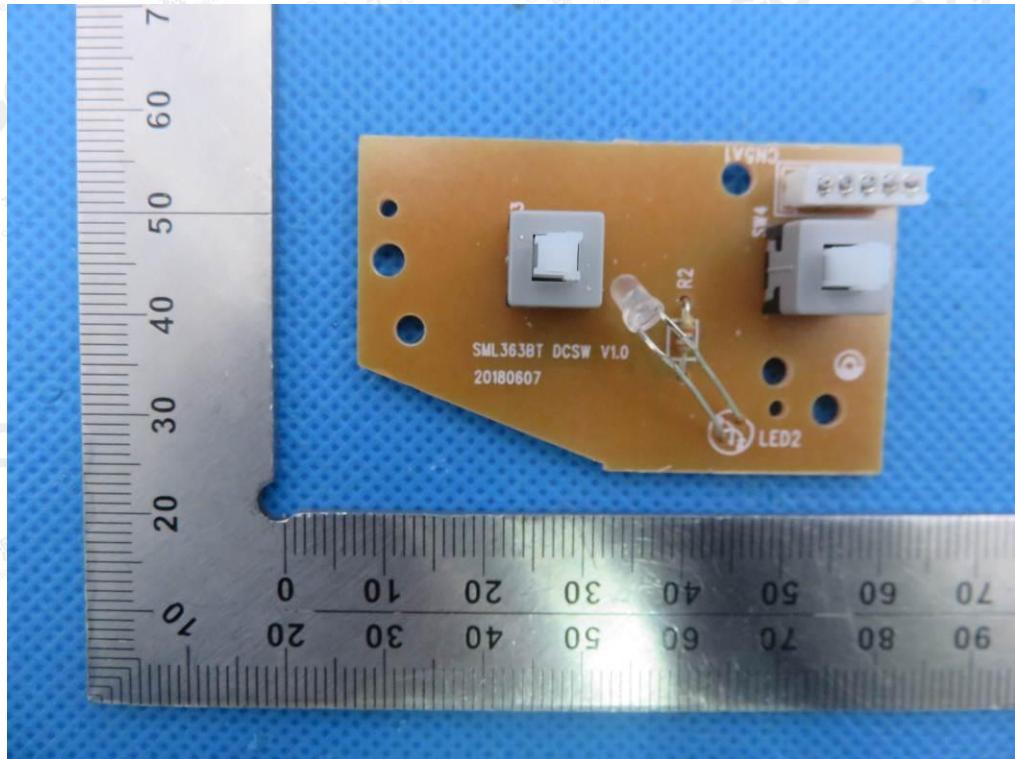
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## INTERNAL VIEW OF EUT-10



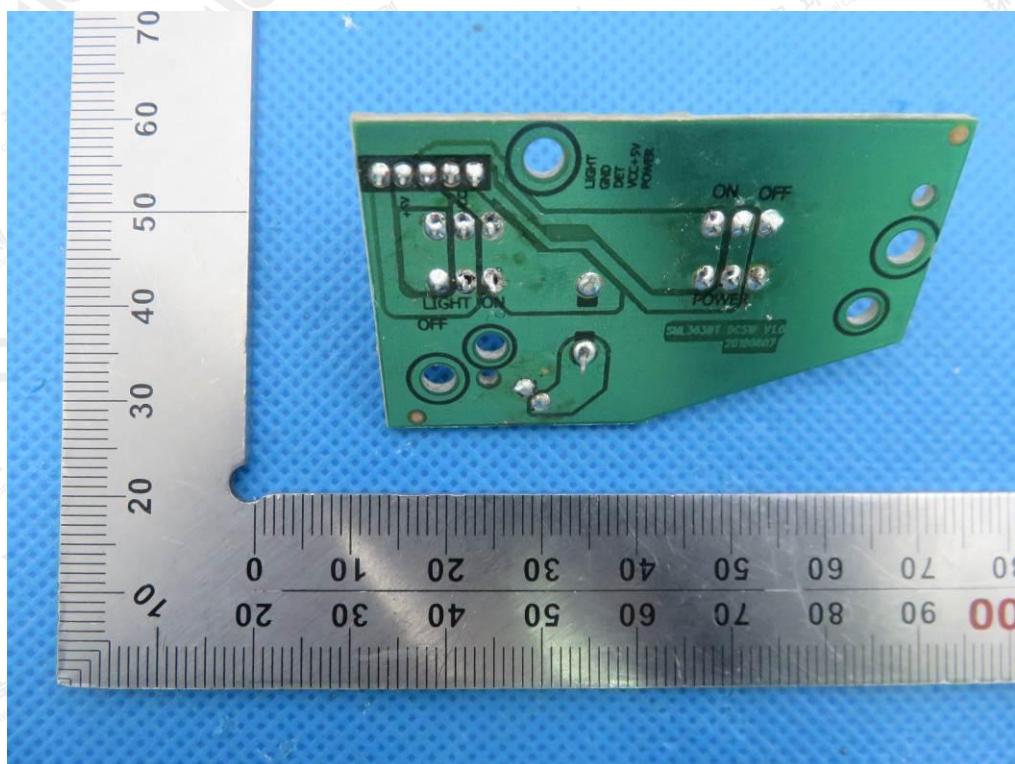
## INTERNAL VIEW OF EUT-11



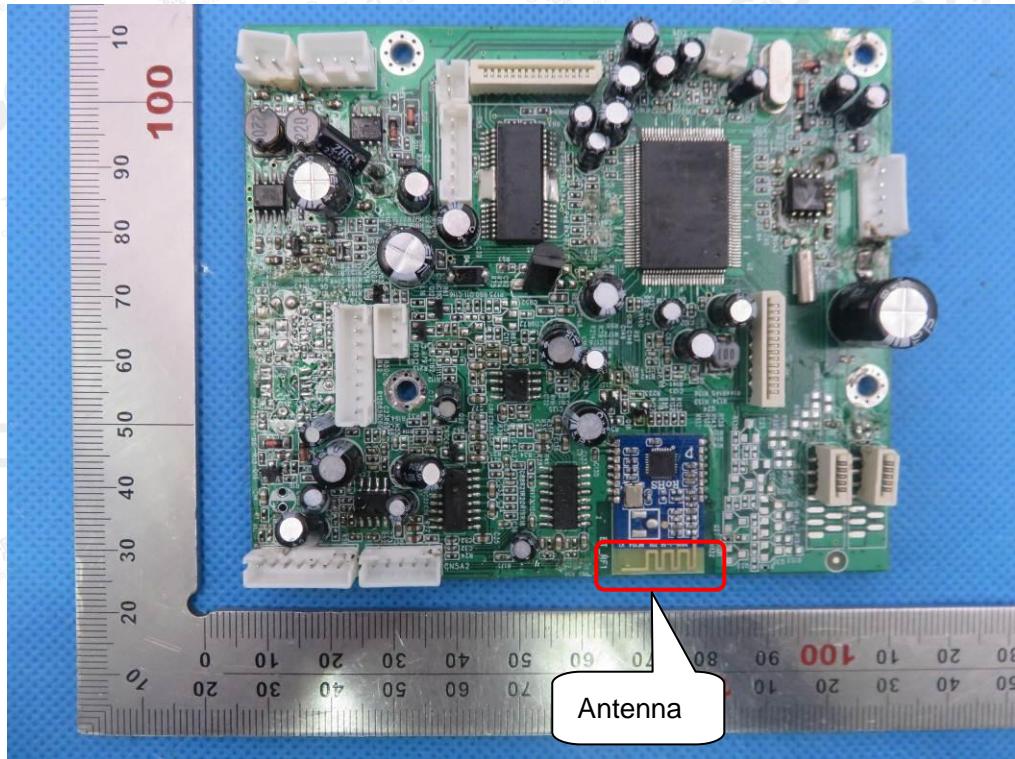
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## INTERNAL VIEW OF EUT-12



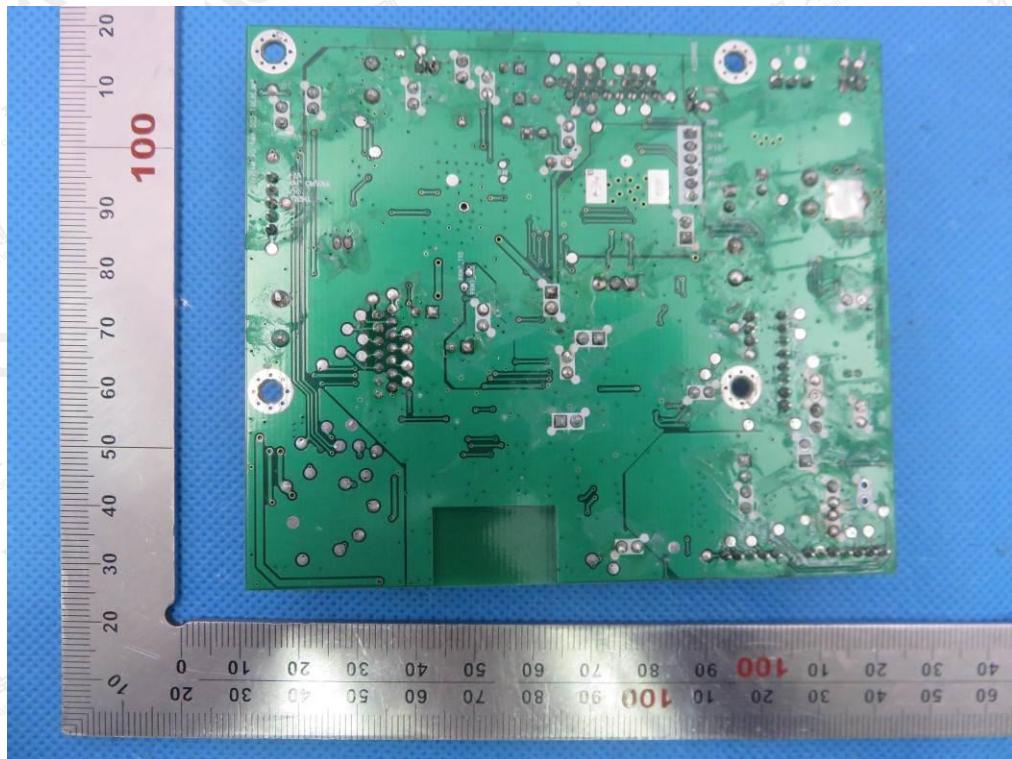
## INTERNAL VIEW OF EUT-13



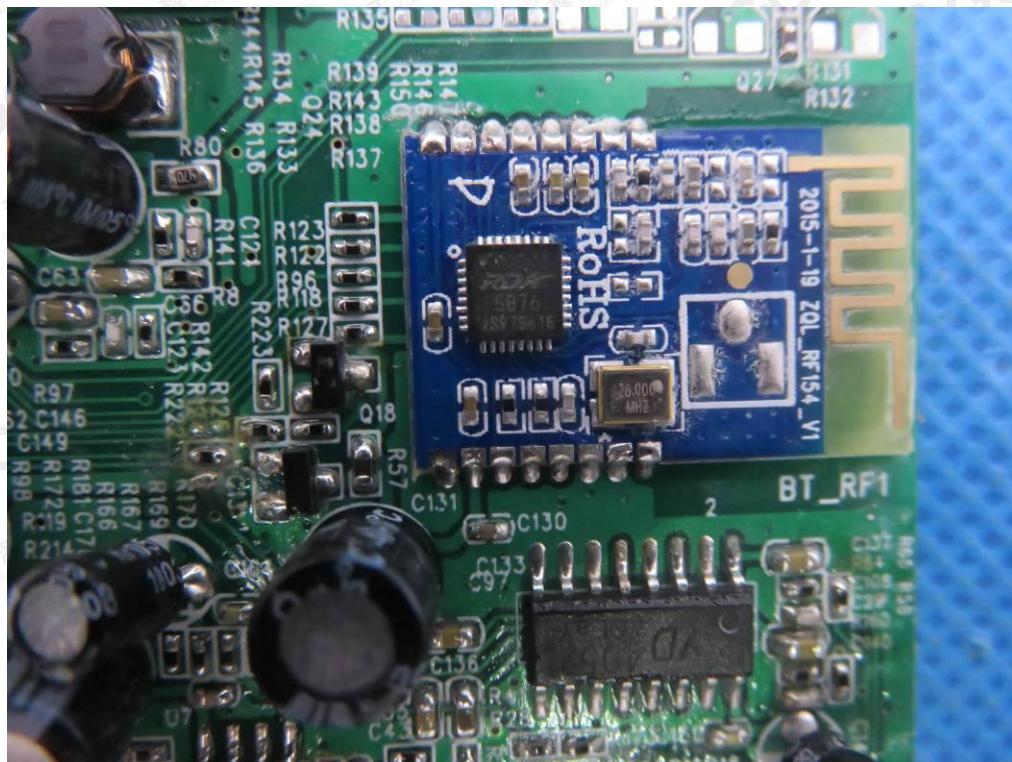
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## INTERNAL VIEW OF EUT-14



## INTERNAL VIEW OF EUT-15



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VIEW OF ADAPTER 1



VIEW OF ADAPTER 2



----END OF REPORT----

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