

# **FCC Test Report**

Report No.: AGC01627180701FE03

FCC ID : 2AODI-T02S

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: True wireless earbuds

BRAND NAME : N/A

MODEL NAME : See Page 4

**CLIENT**: SunFly Electronics Co., Limited

**DATE OF ISSUE** : Jul 23, 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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Attestation of Global Compliance

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# **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	So The state of th	Jul. 23, 2018	Valid	Initial release

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## 1. VERIFICATION OF CONFORMITY

Applicant	SunFly Electronics Co., Limited.		
Address	4/F, No.2 building, jiu jiu superior gardon, Junlong RD, Longhua district, Shenzhen, China.		
Manufacturer	SunFly Electronics Co., Limited.		
Address	4/F, No.2 building, jiu jiu superior gardon, Junlong RD, Longhua district, Shenzhen, China.		
Product Designation	True wireless earbuds		
Brand Name	N/A		
Test Model	T02S		
Series Model	TWS01, TWS02, TWS-12, HP-T100BT, TWS02016, xFyro, ERL		
Difference description	All the same except for the model name		
Date of test	Jul. 16, 2018 to Jul. 20, 2018		
Deviation	None None		
Condition of Test Sample	Normal		
Report Template	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	Honry Zhang	
A A Complaines	Henry Zhang(Zhang Zhuorui)	Jul. 20, 2018
Reviewed By	and change	
® # If Conni	Cool Cheng(Cheng Mengguo)	Jul. 23, 2018
Approved By	Forresto ei	
ance 8 ff. frequency	Forrest Lei(Lei Yonggang)  Authorized Officer	Jul. 23, 2018

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#### 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V4
Software Version	2.05
Antenna Designation	PCB Antenna
Antenna Gain	0.5dBi
Power Supply	DC 3.7V by battery

Note: 1. The BT function of EUT didn't work when charging

2. The EUT comprises left and right channel headsets, both are the same and have been tested. Only the test data of left headset recorded in this report.

#### 2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
	O In the common of the common	2402MHz
The Complants	I I I I I I I I I I I I I I I I I I I	2403MHz
® Allestation of Global (6)		10000000000000000000000000000000000000
CO SO	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
Man Completion @ Management of Ground	© American do 40	2442 MHz
CO .		· · · · · · · · · · · · · · · · · · ·
	77	2479 MHz
The Completion (8)	78	2480 MHz



#### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±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%.

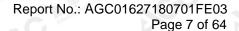
- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

#### 4. DESCRIPTION OF TEST MODES

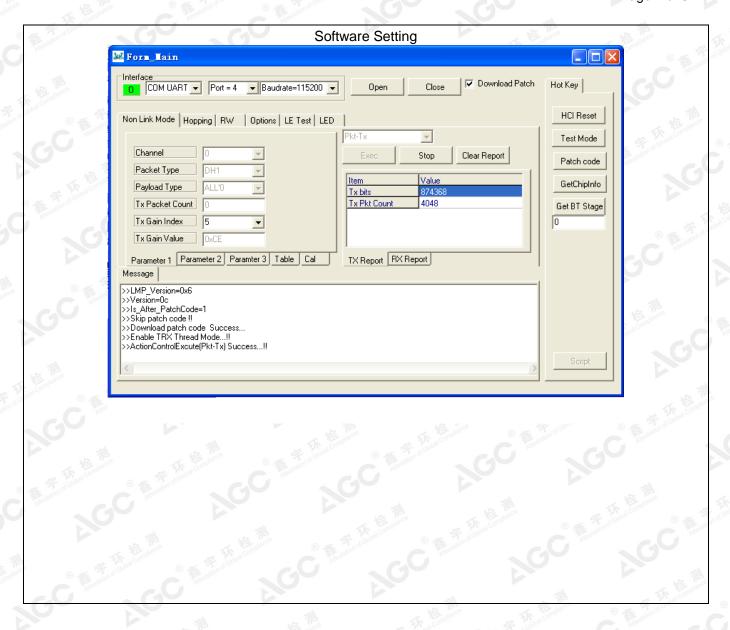
NO. TEST MODE DESCRIPTION			
® ## 100°	Clops,	Low channel GFSK	
2	CO.	Middle channel GFSK	The Completion
3		High channel GFSK	ot clops
4	The fillings	Low channel π /4-DQPSK	
© <b>5</b>	of Global	Middle channel π /4-DQPSK	The Tables
6		High channel π /4-DQPSK	® # Glation of Global Co
7	1.	Low channel 8DPSK	
8	® # John of Glob	Middle channel 8DPSK	
9	Aller	High channel 8DPSK	The Compliance
10	- 1991	BT Link	C Alleson
	200 Total	(C) 200 (A) (A) (A) (A) (A) (A)	

#### Note:

- 1. All the test modes can be supply by battery, 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 fully-charged battery when tested.







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# 5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

1 13 1101	
EUT	

Configure 2: (Control continuous TX)

		oal Control
EUT	Control box	PC

#### **5.2. EQUIPMENT USED IN EUT SYSTEM**

Item	Equipment	Mfr/Brand	Model/Type No.	Remark	
1	True wireless earbuds	SunFly	T02S	EUT	
2	Battery	Dongguan Huiqiao	501012	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	SERIAL	N/A	A.E	
5	IPOD	APPLE	A1367	A.E.C	
6	USB Cable	N/A	1m unshielded	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	N/A	
§15.215	Bandwidth	Compliant	

Note: N/A means it's not applicable to this item.



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# 6. TEST FACILITY

Title .	and the second of the second o		
Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location	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		
NVLAP Lab Code	600153-0		
Designation Number	CN5028		
Test Firm Registration Number	682566		
Description	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 RADIATED EMISSION TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Jun.20, 2018	Jun.19, 2019
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, 2018	Jun.19, 2019
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	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2018	Jun.19, 2019

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#### 9. RADIATED EMISSION

#### 9.1TEST LIMIT

#### Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(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	Distance	Field Strengths Limit						
(MHz)	Meters	μ V/m	dB(μV)/m					
0.009 ~ 0.490	300	2400/F(kHz)	2					
0.490 ~ 1.705	30	24000/F(kHz)	电测 乐意					
1.705 ~ 30	30	30	See The second of the second o					
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 All Market Committee Co	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(μV)/m					

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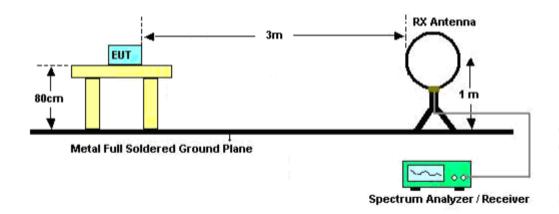
The following table is the setting of spectrum analyzer and receiver.

	Spectrum Parameter	Setting
Mobal Comp.	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
2G **	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
A A A A A A A A A A A A A A A A A A A	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
- FILL	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Spal Complies	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

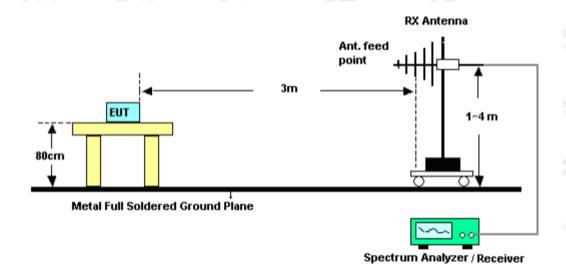


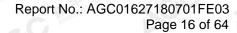
#### 9.3. TEST SETUP

#### Radiated Emission Test-Setup Frequency Below 30MHz



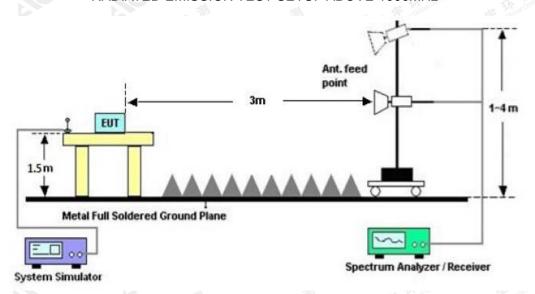
#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz







## RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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#### 9.4. TEST RESULT

#### FOR BR/EDR

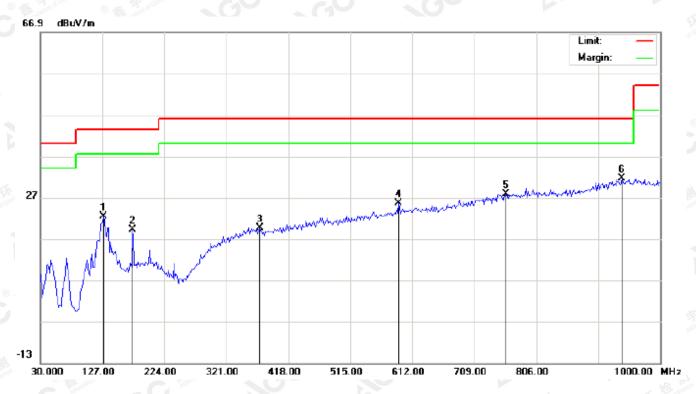
(Worst modulation: 8DPSK)

#### **RADIATED EMISSION BELOW 30MHz**

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

#### **RADIATED EMISSION BELOW 1GHz**

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



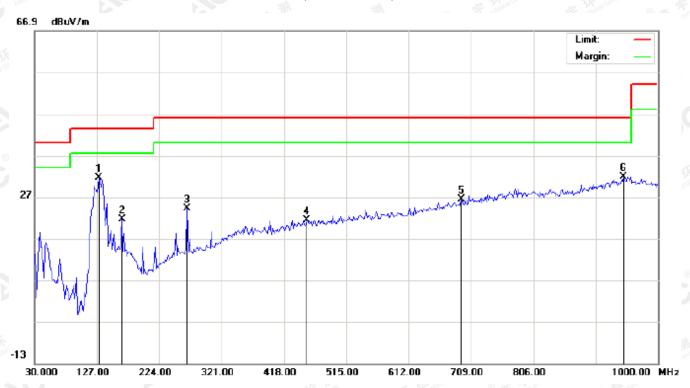
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		128.6167	12.55	9.88	22.43	43.50	-21.07	peak			
2		173.8833	8.32	10.84	19.16	43.50	-24.34	peak			
3		372.7333	0.73	18.89	19.62	46.00	-26.38	peak			
4		590.9833	2.12	23.50	25.62	46.00	-20.38	peak			
5		759.1167	0.98	26.76	27.74	46.00	-18.26	peak			
6	*	940.1833	1.89	29.73	31.62	46.00	-14.38	peak			

**RESULT: PASS** 



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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	130.2332	20.56	11.13	31.69	43.50	-11.81	peak			
2		165.8000	6.58	14.96	21.54	43.50	-21.96	peak			
3		267.6500	9.87	14.43	24.30	46.00	-21.70	peak			
4		453.5667	0.86	20.63	21.49	46.00	-24.51	peak			
5		694.4500	1.29	25.04	26.33	46.00	-19.67	peak			
6		946.6500	1.82	29.91	31.73	46.00	-14.27	peak			

#### **RESULT: PASS**

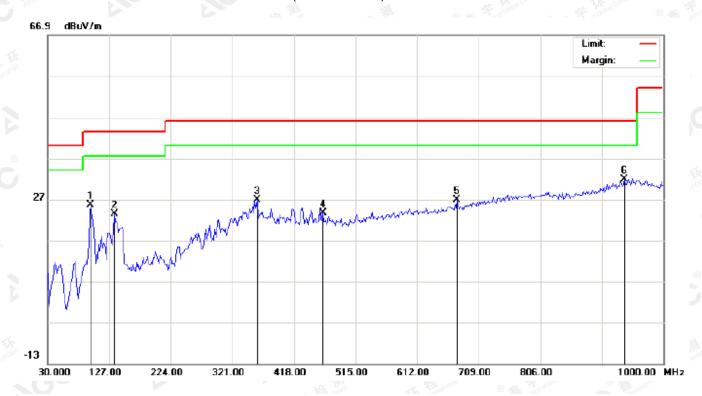
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu√/m	dB		cm	degree	
1		97.9000	17.28	8.38	25.66	43.50	-17.84	peak			
2		135.0833	10.60	12.90	23.50	43.50	-20.00	peak			
3		359.8000	8.05	18.80	26.85	46.00	-19.15	peak			
4		463.2667	2.82	20.73	23.55	46.00	-22.45	peak			
5		675.0499	2.18	24.54	26.72	46.00	-19.28	peak			-
6	*	938.5666	2.09	29.68	31.77	46.00	-14.23	peak			

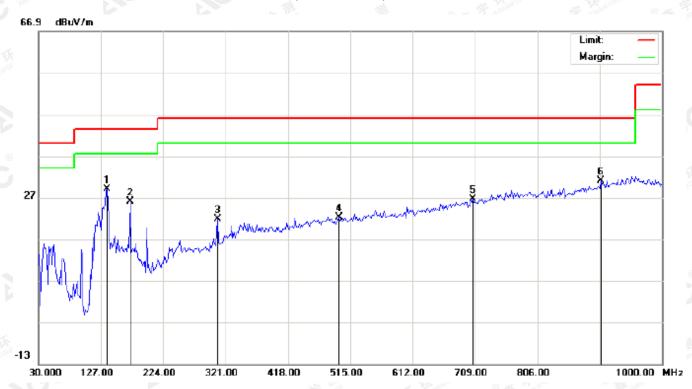
**RESULT: PASS** 

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	136.7000	15.13	13.82	28.95	43.50	-14.55	peak			
2		172.2667	11.42	14.56	25.98	43.50	-17.52	peak			
3		308.0667	5.85	15.95	21.80	46.00	-24.20	peak			
4		497.2167	1.03	21.10	22.13	46.00	-23.87	peak			
5		705.7667	1.21	25.36	26.57	46.00	-19.43	peak			
6		904.6167	2.31	28.74	31.05	46.00	-14.95	peak			

#### **RESULT: PASS**

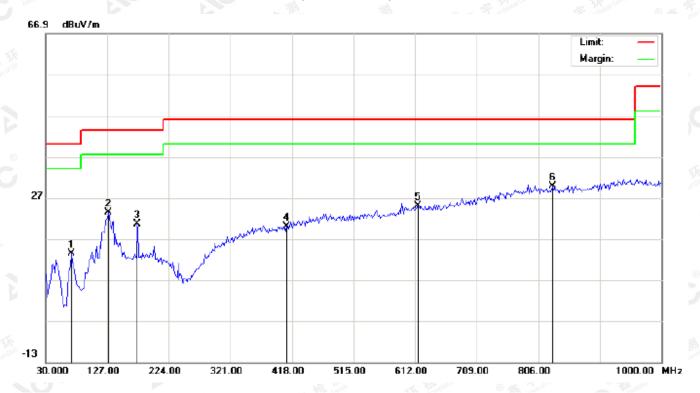
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



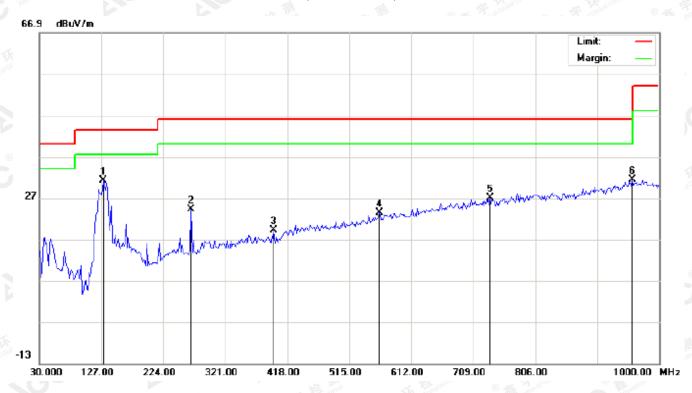
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu√/m	dBu√/m	dB		cm de	degree	
1		70.4167	3.64	9.85	13.49	40.00	-26.51	peak			
2		128.6167	13.55	9.88	23.43	43.50	-20.07	peak			
3		173.8831	9.82	10.84	20.66	43.50	-22.84	peak			
4		409.9166	0.72	19.37	20.09	46.00	-25.91	peak			
5		616.8500	1.14	23.77	24.91	46.00	-21.09	peak			
6	*	828.6331	2.48	27.31	29.79	46.00	-16.21	peak		·	

**RESULT: PASS** 



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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	130.2332	20.06	11.13	31.19	43.50	-12.31	peak			
2		267.6499	9.87	14.43	24.30	46.00	-21.70	peak			
3		396.9832	0.15	19.05	19.20	46.00	-26.80	peak			
4		561.8831	0.90	22.54	23.44	46.00	-22.56	peak			
5		734.8667	0.75	26.19	26.94	46.00	-19.06	peak			
6		957.9665	1.44	29.92	31.36	46.00	-14.64	peak			

#### **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.



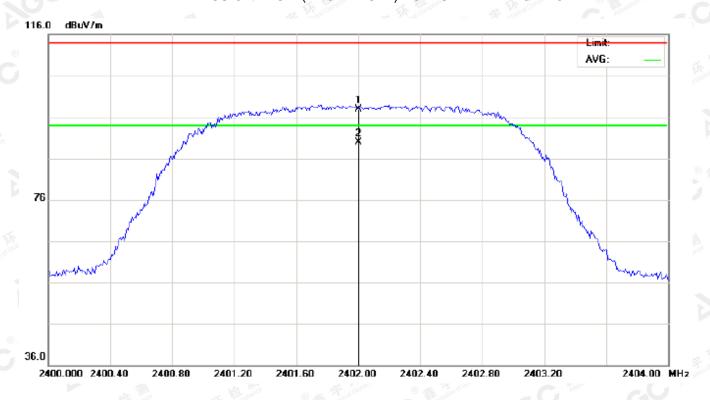
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# RADIATED EMISSION ABOVE 1GHz FOR BR/EDR

(Worst modulation: 8DPSK)

# For Fundamental

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



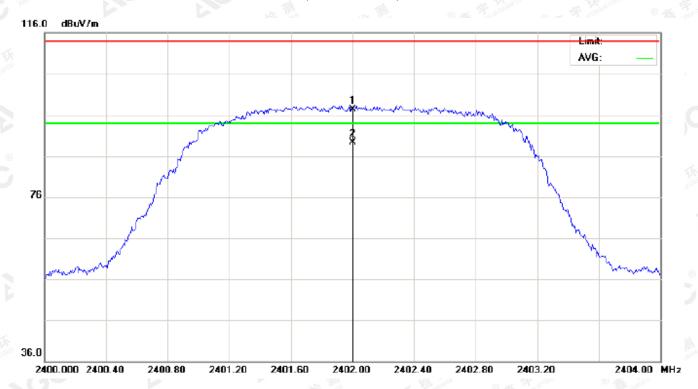
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2402.000	87.49	10.32	97.81	114.00	-16.19	peak			
2	*	2402.000	79.53	10.32	89.85	94.00	-4.15	AVG	100	247	

RESULT: PASS



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



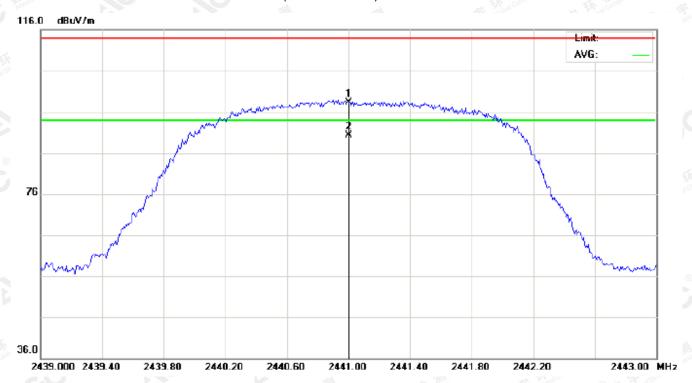
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2402.000	87.01	10.32	97.33	114.00	-16.67	peak			
2	*	2402.000	79.01	10.32	89.33	94.00	-4.67	AVG	100	358	

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	dBu∀	dB/m	dBu√/m	dBu∀/m	dB		cm	degree	
1		2441.000	87.85	10.36	98.21	114.00	-15.79	peak			
2	*	2441.000	79.87	10.36	90.23	94.00	-3.77	AVG	100	245	

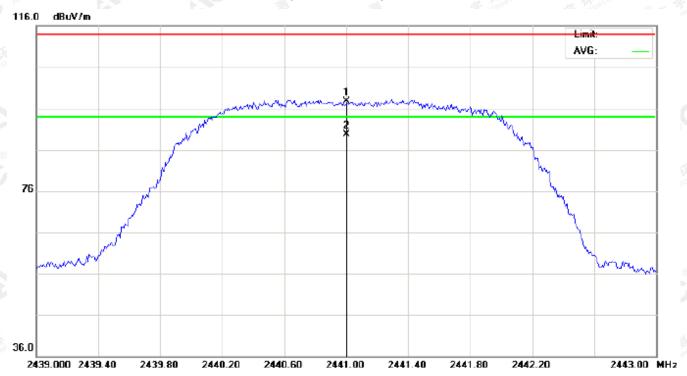
**RESULT: PASS** 

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



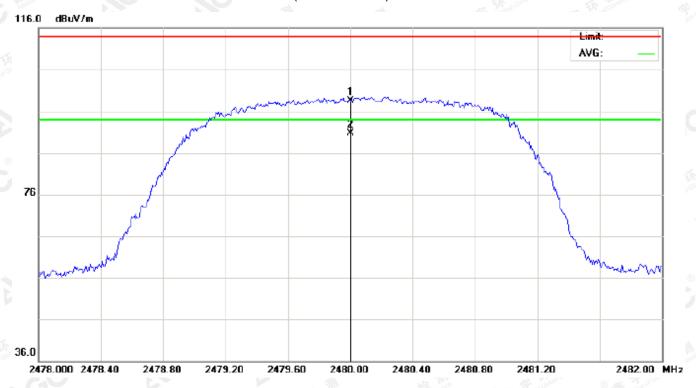
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2441.000	87.36	10.36	97.72	114.00	-16.28	peak			
2	*	2441.000	79.40	10.36	89.76	94.00	-4.24	AVG	100	352	

**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	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2480.000	88.17	10.41	98.58	114.00	-15.42	peak			
2	*	2480.000	80.22	10.41	90.63	94.00	-3.37	AVG	100	248	

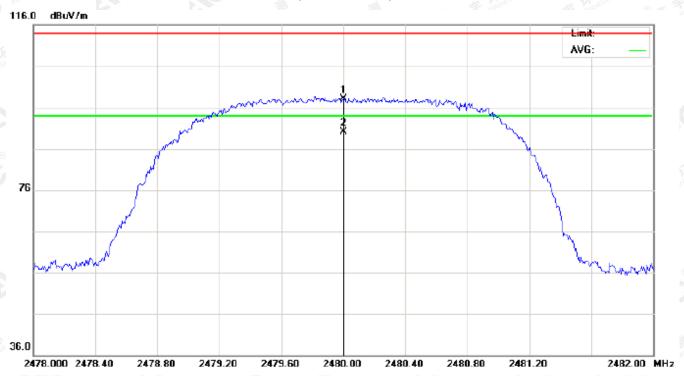
**RESULT: PASS** 

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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	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2480.000	87.69	10.41	98.10	114.00	-15.90	peak			
2	*	2480.000	79.77	10.41	90.18	94.00	-3.82	AVG	100	359	

#### **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

#### 3Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	87.49	10.32	97.81	114	-16.19	Horizontal	
2402	87.01	10.32	97.33	114	-16.67	Vertical	
2441	87.85	10.36	98.21	114	-15.79	Horizontal	
2441	87.36	10.36	97.72	114	-16.28	Vertical	
2480	88.17	10.41	98.58	114	-15.42	Horizontal	
2480	87.69	10.41	98.10	114	-15.90	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	79.53	10.32	89.85	94	-4.15	Horizontal	
2402	78.01	10.32	89.33	94	-4.67	Vertical	
2441	79.87	10.36	90.23	94	-3.77	Horizontal	
2441	79.40	10.36	89.76	94	-4.24	Vertical	
2480	80.22	10.41	90.63	94	-3.37	Horizontal	
2480	79.77	10.41	90.18	94	-3.82	Vertical	



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#### 2Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Factor Measurement		Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	87.03	10.32	97.35	114	-16.65	Horizontal	
2402	86.60	10.32	96.92	114	-17.08	Vertical	
2441	87.37	10.36	97.73	114	-16.27	Horizontal	
2441	86.86	10.36	97.22	114	-16.78	Vertical	
2480	87.76	10.41	98.17	114	-15.83	Horizontal	
2480	87.21	10.41	97.62	114	-16.38	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	79.10	10.32	89.42	94	-4.58	Horizontal
2402	78.53	10.32	88.85	94	-5.15	Vertical
2441	79.40	10.36	89.76	94	-4.24	Horizontal
2441	78.98	10.36	89.34	94	-4.66	Vertical
2480	79.74	10.41	90.15	94	-3.85	Horizontal
2480	79.30	10.41	89.71	94	-4.29	Vertical



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#### 1Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	86.58	10.32	96.90	114	-17.10	Horizontal
2402	86.12	10.32	96.44	114	-17.56	Vertical
2441	86.96	10.36	97.32	114	-16.68	Horizontal
2441	86.42	10.36	96.78	114	-17.22	Vertical
2480	87.26	10.41	97.67	114	-16.33	Horizontal
2480	86.81	10.41	97.22	114	-16.78	Vertical

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.65	10.32	88.97	94	-5.03	Horizontal
2402	78.06	10.32	88.38	94	-5.62	Vertical
2441	78.96	10.36	89.32	94	-4.68	Horizontal
2441	78.53	10.36	88.89	94	-5.11	Vertical
2480	79.32	10.41	89.73	94	-4.27	Horizontal
2480	78.82	10.41	89.23	94	-4.77	Vertical



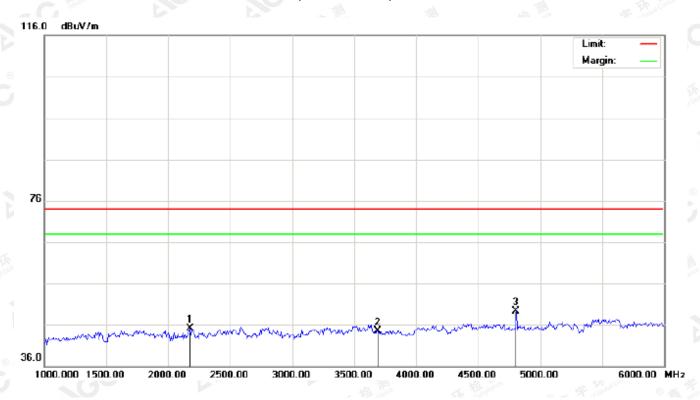
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#### FOR BR/EDR

(Worst modulation: 8DPSK)

#### **For Harmonics**

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



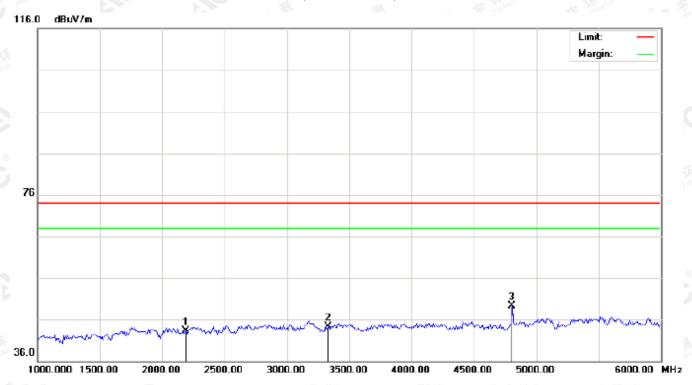
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2175.000	35.00	10.07	45.07	74.00	-28.93	peak			
2		3691.667	31.12	13.29	44.41	74.00	-29.59	peak			
3	*	4804.000	41.71	7.69	49.40	74.00	-24.60	peak			

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	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2191.667	33.30	10.09	43.39	74.00	-30.61	peak			
2		3333.333	32.41	11.95	44.36	74.00	-29.64	peak			
3	*	4804.000	41.55	7.69	49.24	74.00	-24.76	peak			

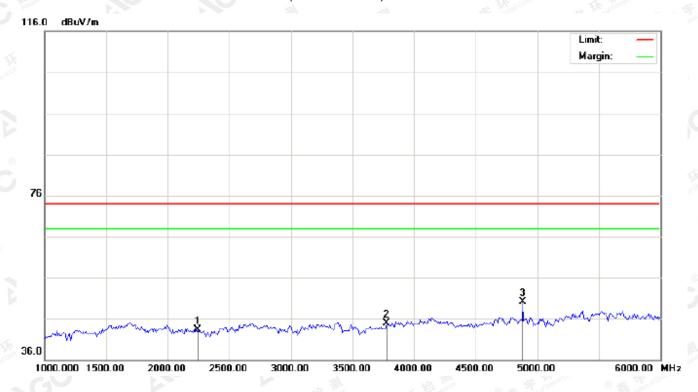
RESIII T. PASS

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



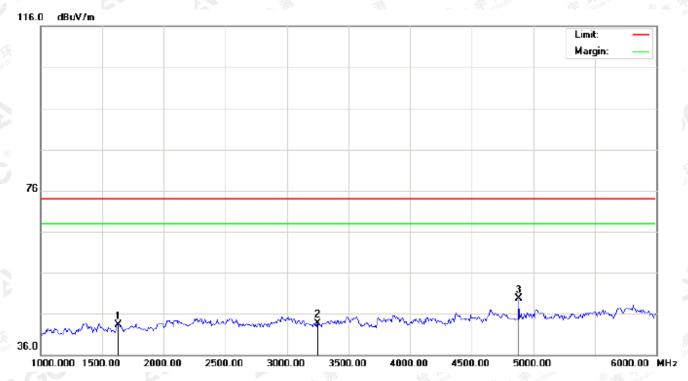
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2241.667	33.15	10.15	43.30	74.00	-30.70	peak			
2		3775.000	31.15	13.80	44.95	74.00	-29.05	peak			
3	*	4882.000	42.16	7.89	50.05	74.00	-23.95	peak			

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	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		1633.333	37.28	6.02	43.30	74.00	-30.70	peak			
2		3250.000	31.86	11.87	43.73	74.00	-30.27	peak			
3	*	4882.000	41.89	7.89	49.78	74.00	-24.22	peak			

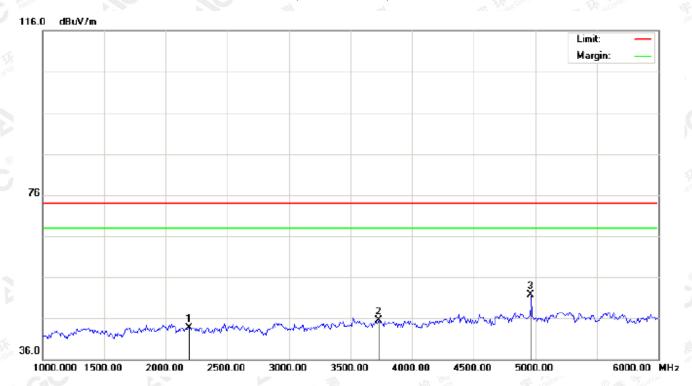
**RESULT: PASS** 

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2191.667	33.61	10.09	43.70	74.00	-30.30	peak			
2		3733.333	31.89	13.55	45.44	74.00	-28.56	peak			
3	*	4960.000	43.60	8.09	51.69	74.00	-22.31	peak			

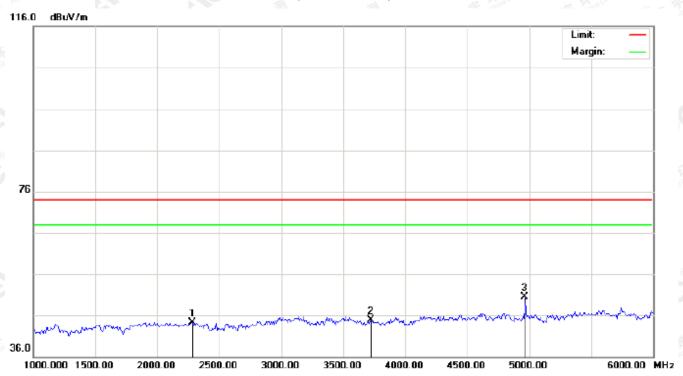
DECILIT: DACC

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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	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2283.333	34.05	10.19	44.24	74.00	-29.76	peak			
2		3725.000	31.42	13.50	44.92	74.00	-29.08	peak			
3	*	4960.000	42.41	8.09	50.50	74.00	-23.50	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

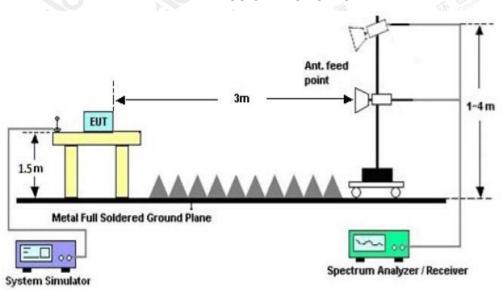
## 10.1. MEASUREMENT PROCEDURE

- 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: 8DPSK)

## TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector _	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2332.908	31.95	10.25	42.20	74.00	-31.80	peak			
2		2390.000	33.50	10.31	43.81	74.00	-30.19	peak			
3		2400.000	41.47	10.32	51.79	74.00	-22.21	peak			
4	*	2402.000	87.55	10.32	97.87	74.00	23.87	peak			
5	Х	2402.000	79.48	10.32	89.80	74.00	15.80	AVG	100	244	

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# TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



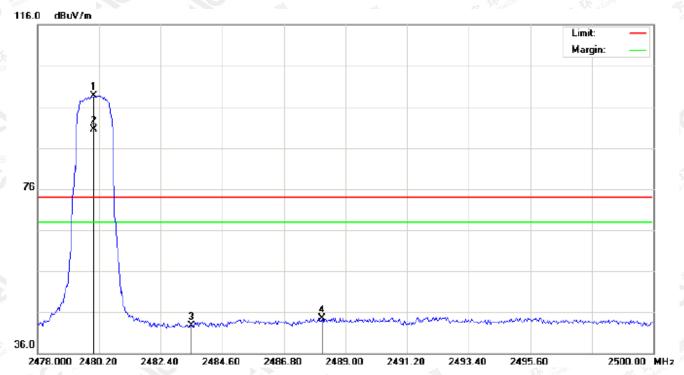
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu√/m	dB		cm	degree	
1		2333.591	32.06	10.25	42.31	74.00	-31.69	peak			
2		2390.000	33.71	10.31	44.02	74.00	-29.98	peak			
3		2400.000	39.56	10.32	49.88	74.00	-24.12	peak			
4	*	2402.000	86.95	10.32	97.27	74.00	23.27	peak		·	
5	Χ	2402.000	78.96	10.32	89.28	74.00	15.28	AVG	100	351	

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# TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



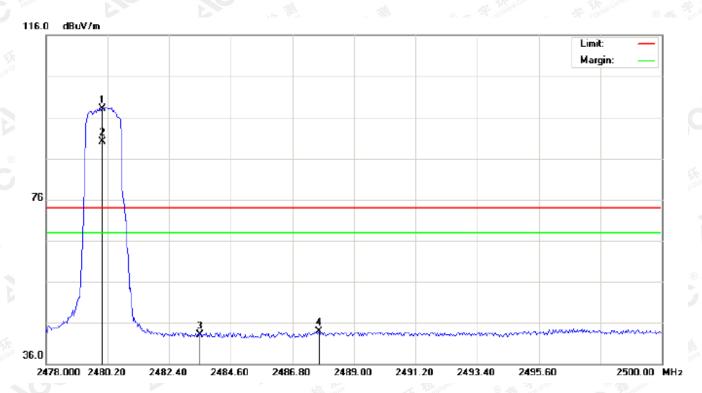
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2480.000	88.22	10.41	98.63	74.00	24.63	peak			
2	Х	2480.000	80.16	10.41	90.57	74.00	16.57	AVG	100	240	
3		2483.500	32.19	10.41	42.60	74.00	-31.40	peak			
4		2488.157	33.99	10.42	44.41	74.00	-29.59	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	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	87.75	10.41	98.16	74.00	24.16	peak			
2	Х	2480.000	79.70	10.41	90.11	74.00	16.11	AVG	100	355	
3		2483.500	32.76	10.41	43.17	74.00	-30.83	peak			
4		2487.753	33.45	10.42	43.87	74.00	-30.13	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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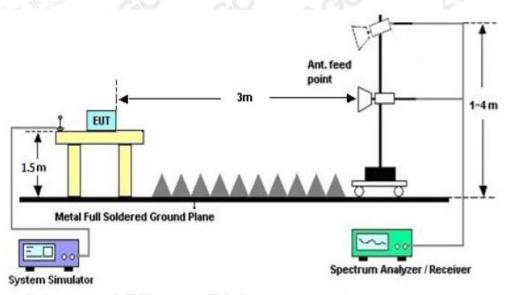
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# 11. 20DB BANDWIDTH

## 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 ≥ 1% of the 20 dB bandwidth, VBW ≥ 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									
	Measurement Result								
Applicable Limits		Danill							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
Social Committee (8) September 10	Low Channel	0.958	1.119	PASS					
N/A	Middle Channel	0.954	1.121	PASS					
	High Channel	0.956	1.124	PASS					

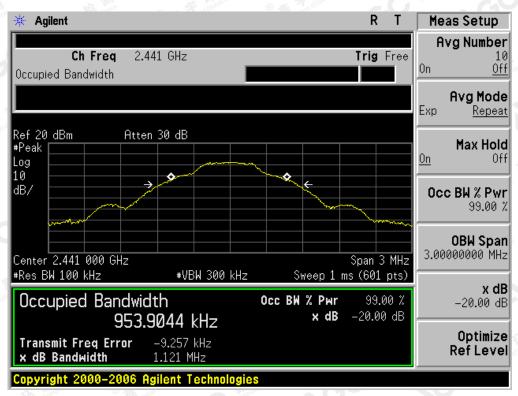
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.



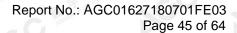
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

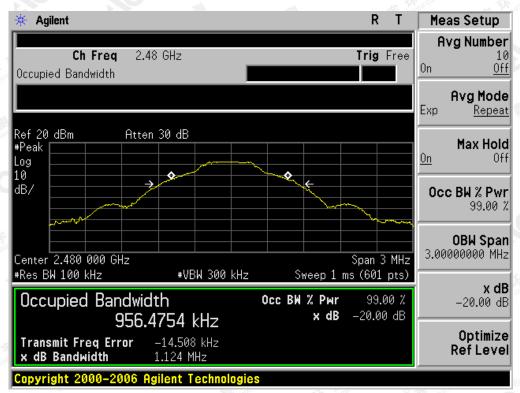


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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

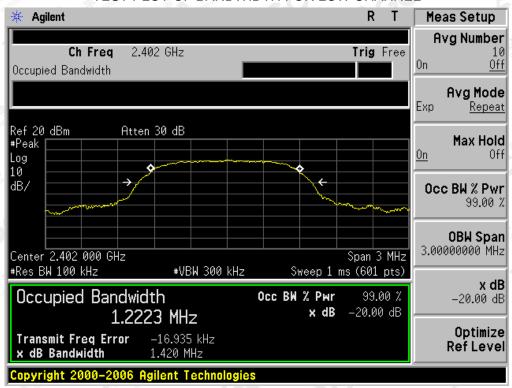


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Allee .			- Y - Y - N - N - N - N - N - N - N - N	20N .Co 22				
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result							
Applicable Limits		Danult						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The fill	Low Channel	1.222	1.420	PASS				
N/A	Middle Channel	1.227	1.420	PASS				
	High Channel	1.224	1.422	PASS				

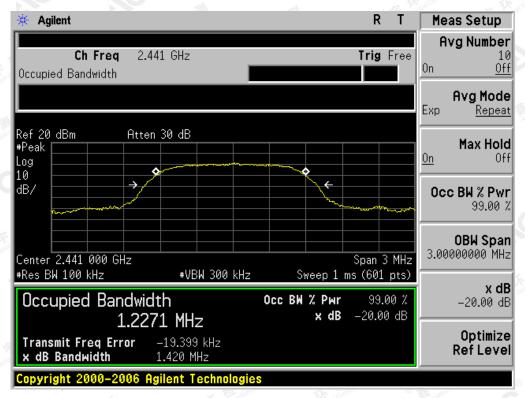
## TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



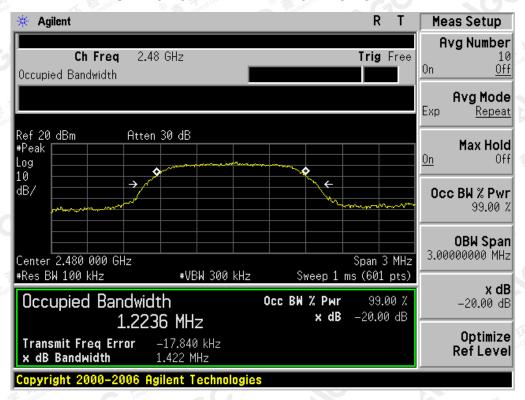
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

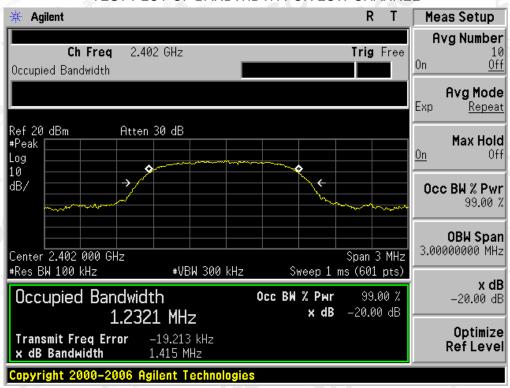


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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT									
	Measurement Result								
Applicable Limits		B !!							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
不 整 测 不 整 测	Low Channel	1.232	1.415	PASS					
N/A	Middle Channel	1.228	1.418	PASS					
	High Channel	1.228	1.421	PASS					

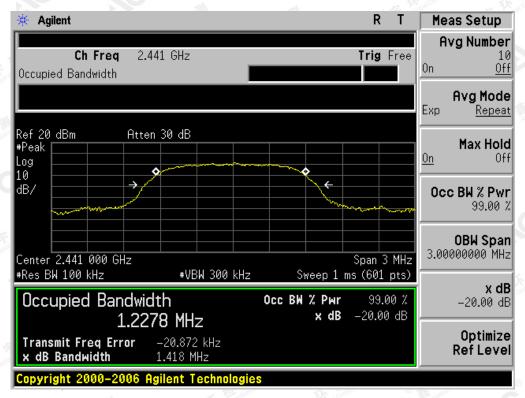
## TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



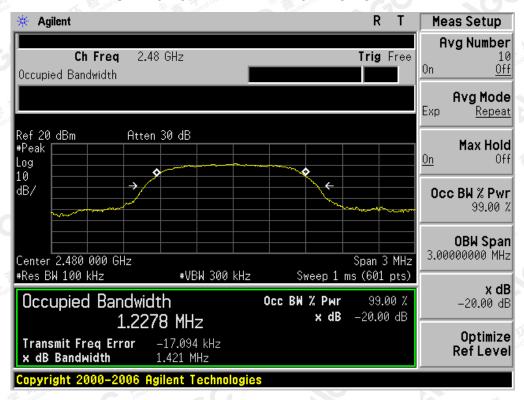
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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# 12. FCC LINE CONDUCTED EMISSION TEST

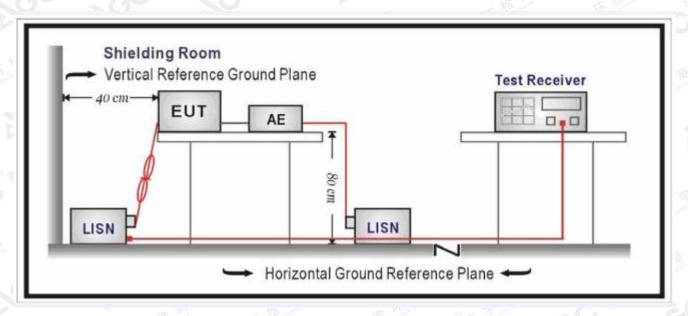
# 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage							
Frequency	Q.P.( dBuV)	Average( dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	8 gg 25 20 56 56 20 10 00 00 00 00 00 00 00 00 00 00 00 00	46 M						
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 DC charging voltage by adapter or PC 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

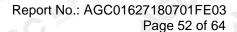
- EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used 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.

#### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The BT function of EUT didn't work when charging.

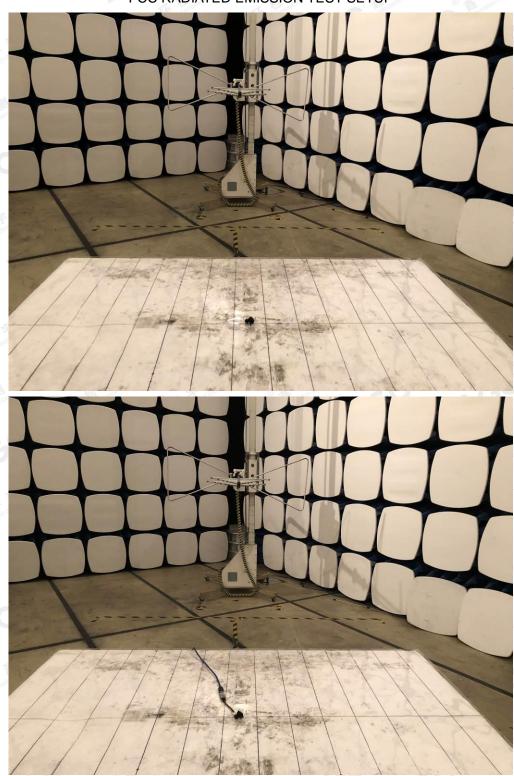
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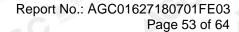
# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP

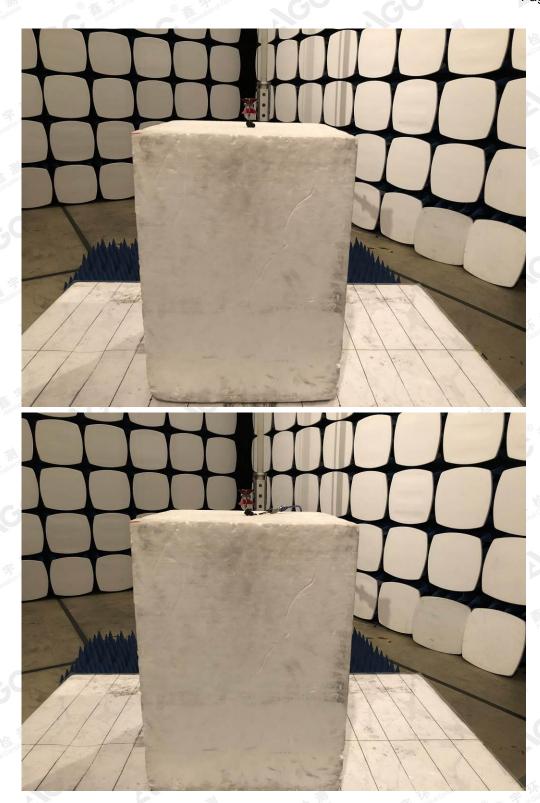


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# **APPENDIX B: PHOTOGRAPHS OF EUT**

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)

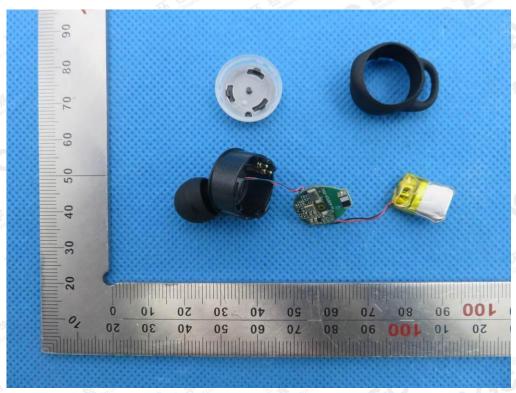


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**Left**OPEN VIEW OF EUT



**VIEW OF BATTERY-1** 



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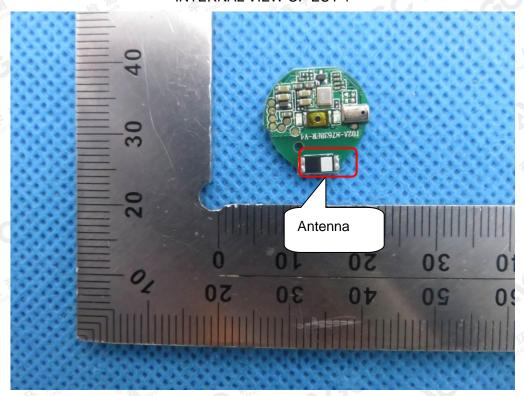
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## **VIEW OF BATTERY-2**



**INTERNAL VIEW OF EUT-1** 

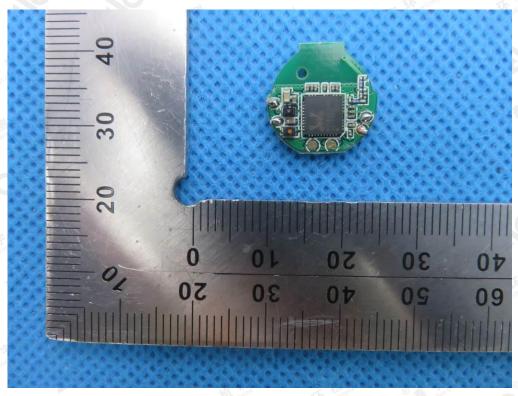


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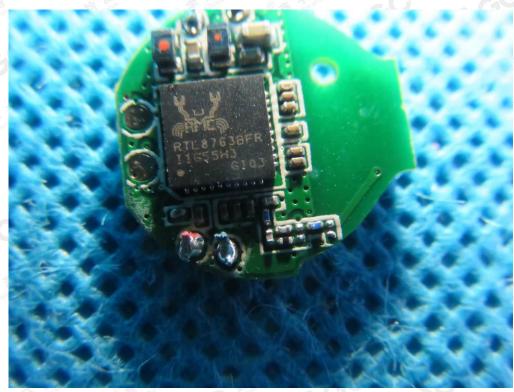
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# **INTERNAL VIEW OF EUT-2**



**INTERNAL VIEW OF EUT-3** 

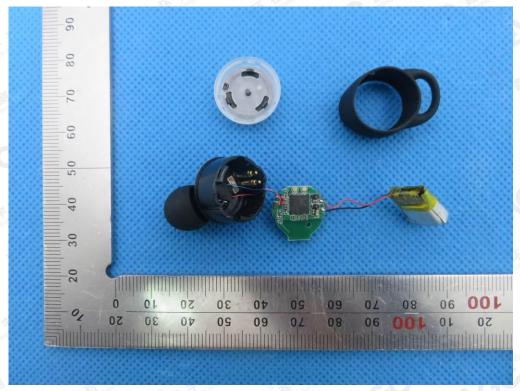


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Right
OPEN VIEW OF EUT



**VIEW OF BATTERY-1** 

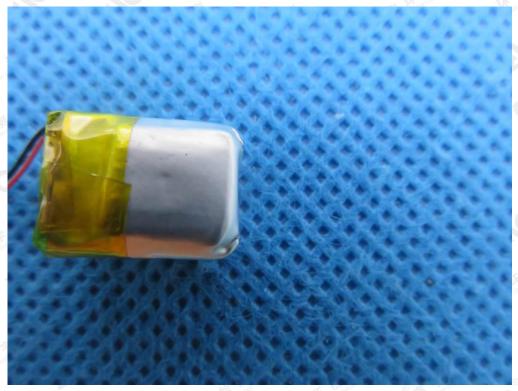


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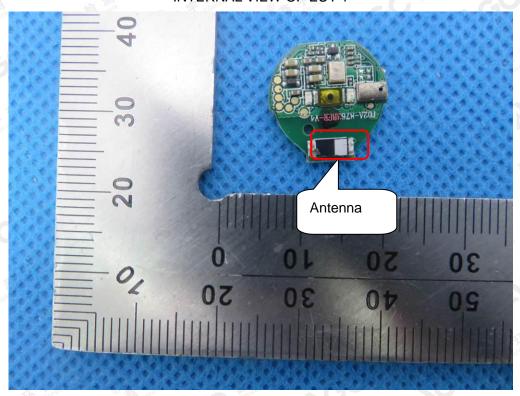
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## **VIEW OF BATTERY-2**



**INTERNAL VIEW OF EUT-1** 

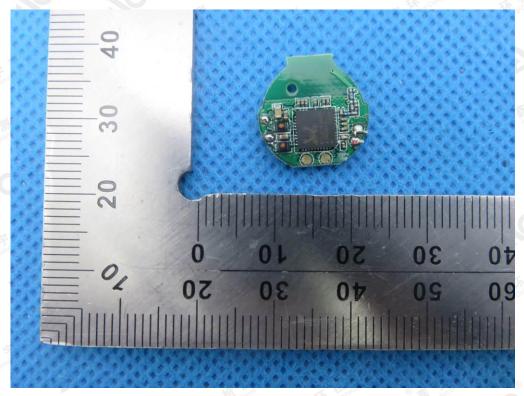


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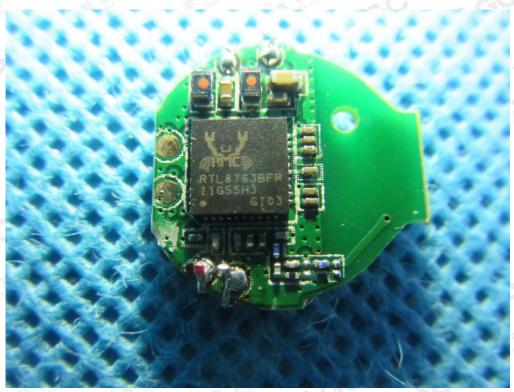
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# **INTERNAL VIEW OF EUT-2**



**INTERNAL VIEW OF EUT-3** 



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# Charging Dock

VIEW OF EUT (PORT)-1



VIEW OF EUT (PORT)-2



----END OF REPORT----

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