

# **FCC Test Report**

Report No.: AGC02011180101FE03

FCC ID : YILMH802

APPLICATION PURPOSE : Original Equipment

**PRODUCT DESIGNATION**: TWS BLUETOOTH EARPHONE

BRAND NAME : DISO

MODEL NAME : MH802

CLIENT : SHENZHEN CHENGYAN SCIENCE & TECHNOLOGY CO.,

LTD

**DATE OF ISSUE** : Jan. 25, 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

#### **CAUTION:**

This report shall not be reproduced except in full without the written permission of the test laboratory and shall not be quoted out of context.



The results spound 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 XCC, 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.ago.go.tt.com.

Attestation of Global Compliance



Page 2 of 60

# Report Revise Record

Report Version		Revise Time	Issued Date	Valid Version	Notes
The Warmen	V1.0	## / ® ##.	Jan. 25, 2018	Valid	Initial release

The results shown 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 KGC, 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 http://www.agc.gett.com.



# TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	5
3. MEASUREMENT UNCERTAINTY	6
4. DESCRIPTION OF TEST MODES	6
5. SYSTEM TEST CONFIGURATION	8
5.1. CONFIGURATION OF EUT SYSTEM 5.2. EQUIPMENT USED IN EUT SYSTEM 5.3. SUMMARY OF TEST RESULTS	8 9
6. TEST FACILITY	10
	11
8. TEST EQUIPMENT LIST	
9 RADIATED EMISSION	12
9.1. TEST LIMIT	12 13
10. BAND EDGE EMISSION	
10.1. MEASUREMENT PROCEDURE 10.2 TEST SETUP 10.3 RADIATED TEST RESULT	32 33
11. 20DB BANDWIDTH	37
11.1. MEASUREMENT PROCEDURE	37 37
12. FCC LINE CONDUCTED EMISSION TEST	
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	45 45 45
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	46
APPENDIX B. PHOTOGRAPHS OF FUT	48

The results showed 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.cett.com.



Page 4 of 60

# 1. VERIFICATION OF CONFORMITY

Applicant	SHENZHEN CHENGYAN SCIENCE & TECHNOLOGY CO., LTD		
Address	Room 1808, Shenhua Commercial Building, Jiabin Rd., Luohu district Shenzhen, P.R.China		
Manufacturer SHENZHEN YAN XI SCIENCE AND TECHNOLOGY CO., LTD			
Address	2ND FLOOR, 2B BUILDING, ZHONGHAIXIN INNOVATIVE INDUSTRIAL CITY, SHENGBAO ROAD NO.2, NAN WAN STREET, LONGGANG DISTRICT, SHENZHEN, P.R.China		
Product Designation	TWS BLUETOOTH EARPHONE		
Brand Name	DISO.		
Test Model	MH802		
Date of test	Jan. 21, 2018 to Jan. 24, 2018		
Deviation	None Management of the state of		
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

Henry Zhang

Henry Zhang(Zhang Zhuorui)

Jan. 24, 2018

Reviewed By

Forrest Lei(Lei Yonggang)

Jan. 25, 2018

The results spoured 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 XOC, 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.ago.go.tt.com.



Page 5 of 60

# 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
RF Output Power	2.68dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	802-L
Software Version	802-REV.1
Antenna Designation	LDS Antenna
Antenna Gain	1dBi
Power Supply	DC 3.7V by battery
Nister The CUIT serveries	and of the district of the second combination of the second conditions and the second conditions at the second conditions and the second conditions at the second condition

Note: The EUT comprises left and right channel earphones, both are the same and have been tested. Only the test data of left earphone recorded in this report.

#### 2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency		
· iii	O II II O	2402MHz		
The Table Complaine	- C1	2403MHz		
- Ca Milled Hound				
Co You	38	2440 MHz		
2400~2483.5MHz	39	2441 MHz		
The School Compliance (S. Miller attorn of Guardiness of G	40	2442 MHz		
, CO 5		THE THE STATE OF T		
:111	77	2479 MHz		
The tempore @	78° 78°	2480 MHz		

The results spound 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 XCC, 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.ago.go.tt.com.



Page 6 of 60

#### 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

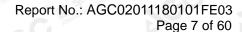
# 4. DESCRIPTION OF TEST MODES

TEST MODE DESCRIPTION			
Low channel GFSK			
Middle channel GFSK			
High channel GFSK			
Low channel π /4-DQPSK			
Middle channel π /4-DQPSK			
High channel π /4-DQPSK			
Low channel 8DPSK			
Middle channel 8DPSK			
High channel 8DPSK			
BT Link			

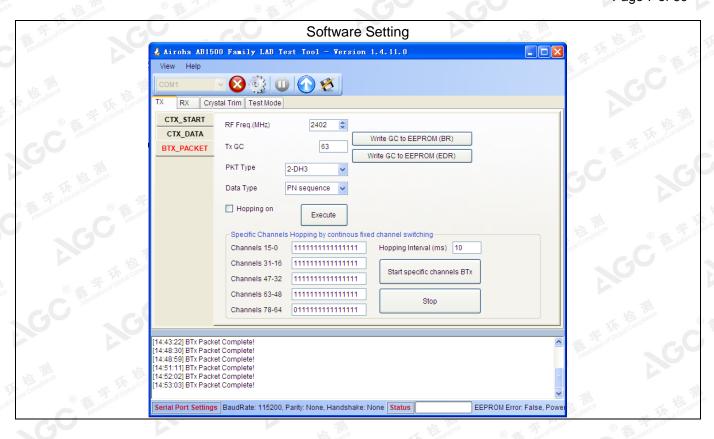
#### Note:

- 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.

The results spound 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 XCC, 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.ago.go.tt.com.







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 QC, 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-gett.com.



Page 8 of 60

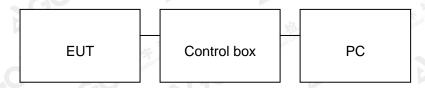
## 5. SYSTEM TEST CONFIGURATION

# **5.1. CONFIGURATION OF EUT SYSTEM**

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)



#### 5.2. EQUIPMENT USED IN EUT SYSTEM

		-10 pa			
Item	Equipment	Mfr/Brand	Model/Type No.	Remark	
10	TWS BLUETOOTH EARPHONE	DISO	MH802	EUT	
2	Battery	GREAT POWER	1254	Accessory	
3	PC PC	APPLE	A1465	A.E	
4	Control box	AIROHA	N/A	A.E	
5	USB Cable	N/A	1m unshielded	A.E	

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.gett.com.



Page 9 of 60

#### **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.

The results showed 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.gett.com.



Page 10 of 60

# 6. TEST FACILITY

317, 510			
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		

The results shown 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.cett.com.



age 11 of 60

#### 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**

0////	2011	. Glov	2 - 10pg,		
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	6	Mar. 01, 2016	Feb. 28, 2018

The results showed 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.gett.com.



Page 12 of 60

## 9. RADIATED EMISSION

#### 9.1. TEST 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)	3					
0.490 ~ 1.705	30	24000/F(kHz)	A # A # #					
1.705 ~ 30	30	30	S The stand of Contract of Con					
30 ~ 88	3	100	40.0					
88 ~ 216	3 Allestation	150	43.5					
216 ~ 960	3	200	46.0					
960 ~ 1000	3	500	54.0					
Above 1000	3 The state of the	Other:74.0 dB(µV)/m (Average)	n (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.

The results spound 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 XCC, 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.ago.go.tt.com.



Page 13 of 60

#### 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)

The results spound 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 XCC, 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.ago.go.tt.com.



Page 14 of 60

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

	Spectrum Parameter	Setting
bal Compilario	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
0	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Amesaion a ciobal	Start ~Stop Frequency	1GHz~26.5GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 1.5MHz/ VBW 10Hz for Average
	Receiver Parameter	Setting
	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
-G	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
O	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

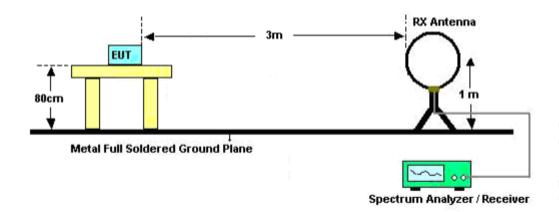
The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



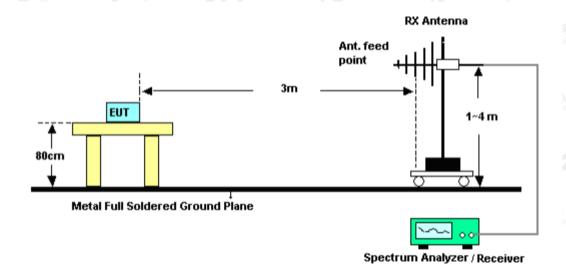
Page 15 of 60

#### 9.3. TEST SETUP

#### RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



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

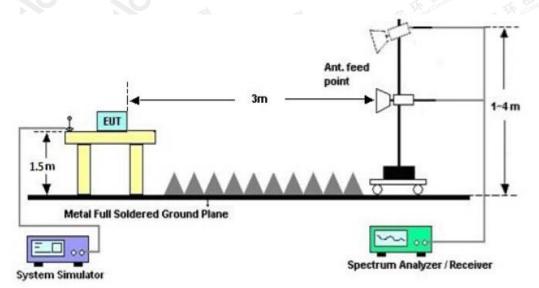


The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the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



Page 16 of 60

## RADIATED EMISSION TEST SETUP ABOVE 1000MHz



The results showned 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 AGE, 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 attr://www.agc.gett.com.



Page 17 of 60

# 9.4. TEST RESULT

(Worst modulation: GFSK)

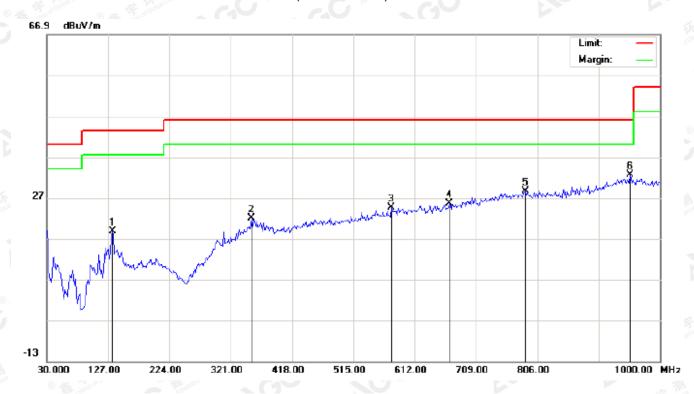
FOR BR/EDR

#### 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		133.4667	6.67	12.15	18.82	43.50	-24.68	peak			
2		353.3333	3.28	18.76	22.04	46.00	-23.96	peak			
3		574.8167	1.48	23.10	24.58	46.00	-21.42	peak			
4		666.9667	1.32	24.31	25.63	46.00	-20.37	peak			
5		786.6000	1.54	27.14	28.68	46.00	-17.32	peak			
6	*	953.1167	2.63	29.97	32.60	46.00	-13.40	peak			

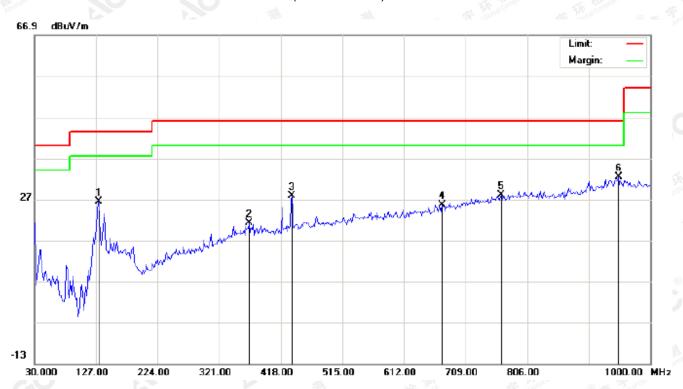
**RESULT: PASS** 

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 XOC, 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.ago.go.tt.com.



Page 18 of 60

## 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		131.8500	14.64	11.80	26.44	43.50	-17.06	peak			
2		367.8833	2.26	18.86	21.12	46.00	-24.88	peak			
3		435.7833	7.56	20.16	27.72	46.00	-18.28	peak			
4		671.8167	1.11	24.43	25.54	46.00	-20.46	peak			
5		765.5833	1.24	26.85	28.09	46.00	-17.91	peak			
6	*	949.8833	2.31	30.00	32.31	46.00	-13.69	peak			

**RESULT: PASS** 

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

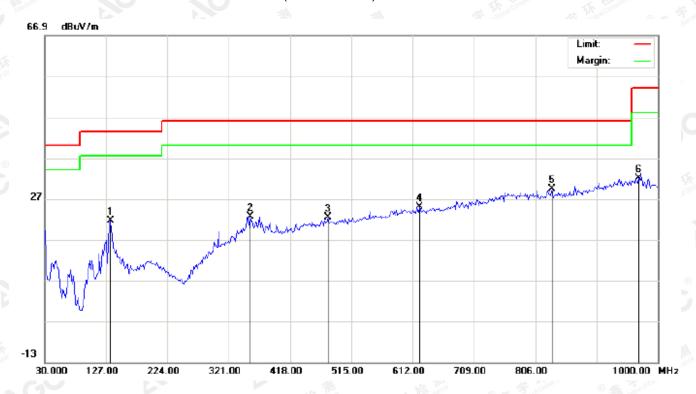
2. The "Factor" value can be calculated automatically by software of measurement system.

The results spound 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 XCC, 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.ago.go.tt.com.



Page 19 of 60

## 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		133.4667	9.44	12.15	21.59	43.50	-21.91	peak			
2		354.9500	3.89	18.77	22.66	46.00	-23.34	peak			
3		477.8167	1.54	20.89	22.43	46.00	-23.57	peak			
4		623.3167	1.16	23.79	24.95	46.00	-21.05	peak			
5	*	831.8667	2.17	27.31	29.48	46.00	-16.52	peak			
6		969.2833	2.29	29.81	32.10	54.00	-21.90	peak			

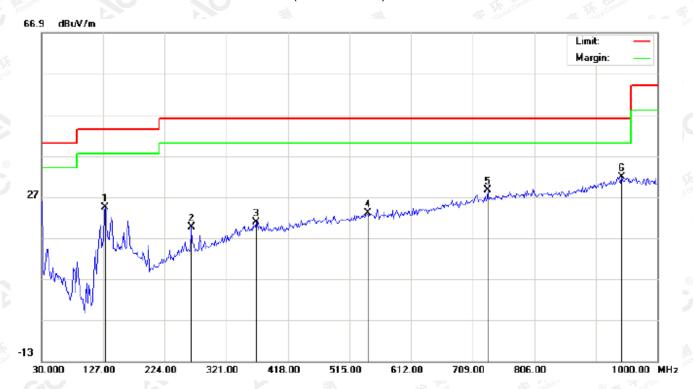
RESULT: PASS

The results showing 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.



Page 20 of 60

## 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	dBuV/m	dBu∀/m	dB		cm	degree	
1		130.2333	13.28	11.13	24.41	43.50	-19.09	peak			
2		266.0333	5.29	14.38	19.67	46.00	-26.33	peak			
3		367.8833	1.92	18.86	20.78	46.00	-25.22	peak			
4		544.1000	0.77	22.32	23.09	46.00	-22.91	peak			
5		733.2500	2.54	26.15	28.69	46.00	-17.31	peak			
6	*	943.4167	2.02	29.82	31.84	46.00	-14.16	peak			

**RESULT: PASS** 

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

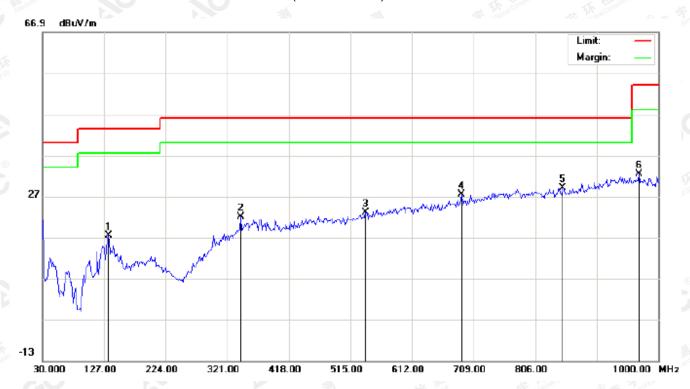
2. The "Factor" value can be calculated automatically by software of measurement system.

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.



Page 21 of 60

## RADIATED EMISSION TEST- (30MHz-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		133.4667	5.17	12.15	17.32	43.50	-26.18	peak			
2		342.0167	3.80	18.21	22.01	46.00	-23.99	peak			
3		539.2500	0.82	22.19	23.01	46.00	-22.99	peak			
4		689.6000	2.40	24.94	27.34	46.00	-18.66	peak			
5	*	849.6500	1.74	27.31	29.05	46.00	-16.95	peak		·	-
6		969.2833	2.61	29.81	32.42	54.00	-21.58	peak		·	

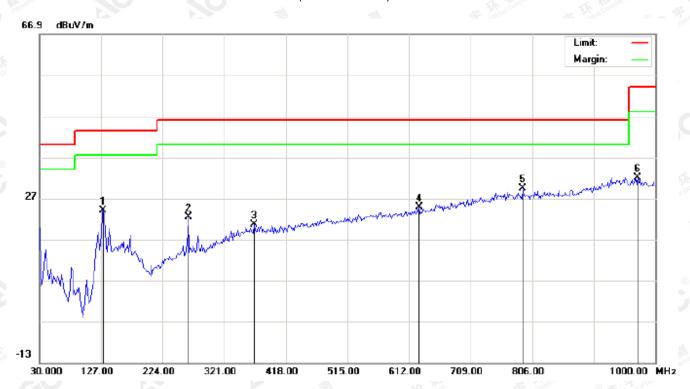
DECIII T. DACC

The results showing 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.



Page 22 of 60

## RADIATED EMISSION TEST- (30MHz-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		130.2333	12.96	11.13	24.09	43.50	-19.41	peak			
2		264.4167	8.08	14.34	22.42	46.00	-23.58	peak			
3		367.8833	1.84	18.86	20.70	46.00	-25.30	peak			
4		628.1667	1.41	23.36	24.77	46.00	-21.23	peak			
5	*	791.4500	2.14	27.20	29.34	46.00	-16.66	peak	·		
6		972.5167	2.23	29.78	32.01	54.00	-21.99	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.

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.



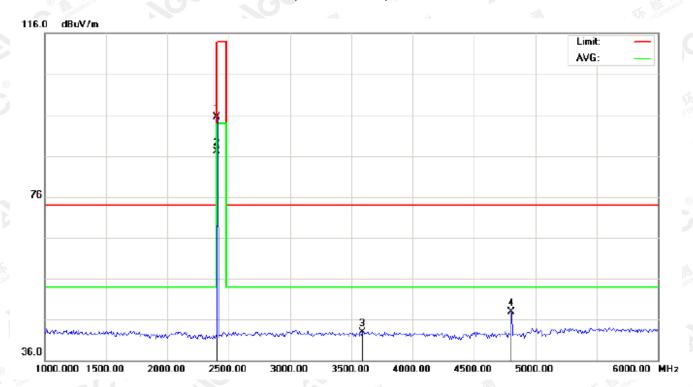
Page 23 of 60

## **RADIATED EMISSION ABOVE 1GHz**

(Worst modulation: GFSK)

#### FOR BR/EDR

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over				Comment	
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree		h
1		2402.000	85.21	10.32	95.53	114.00	-18.47	peak				8
2	*	2402.000	76.77	10.32	87.09	94.00	-6.91	AVG	100	61		
3		3591.667	30.20	12.67	42.87	74.00	-31.13	peak				ŀ
4		4804.000	40.24	7.69	47.93	74.00	-26.07	peak				
	1 2 3	1 2 * 3	MHz 1 2402.000 2 * 2402.000 3 3591.667	MHz dBuV 1 2402.000 85.21 2 * 2402.000 76.77 3 3591.667 30.20	MHz dBuV dB/m  1 2402.000 85.21 10.32 2 * 2402.000 76.77 10.32 3 3591.667 30.20 12.67	MHz dBuV dB/m dBuV/m  1 2402.000 85.21 10.32 95.53  2 * 2402.000 76.77 10.32 87.09  3 3591.667 30.20 12.67 42.87	MHz dBuV dB/m dBuV/m dBuV/m 1 2402.000 85.21 10.32 95.53 114.00 2 * 2402.000 76.77 10.32 87.09 94.00 3 3591.667 30.20 12.67 42.87 74.00	MHz dBuV dB/m dBuV/m dBuV/m dB 1 2402.000 85.21 10.32 95.53 114.00 -18.47 2 * 2402.000 76.77 10.32 87.09 94.00 -6.91 3 3591.667 30.20 12.67 42.87 74.00 -31.13	No. Mk Freq. Reading Factor Measurement Limit Over Detector  MHz dBuV dB/m dBuV/m dBuV/m dB  1 2402.000 85.21 10.32 95.53 114.00 -18.47 peak  2 * 2402.000 76.77 10.32 87.09 94.00 -6.91 AVG  3 3591.667 30.20 12.67 42.87 74.00 -31.13 peak	No. Mk   Freq.   Reading   Factor   Measurement   Limit   Over   Detector   Height	No. Mk Freq. Reading Factor Measurement Limit Over Detector Height Degree  MHz dBuV dB/m dBuV/m dB Detector Cm degree  1 2402.000 85.21 10.32 95.53 114.00 -18.47 peak  2 * 2402.000 76.77 10.32 87.09 94.00 -6.91 AVG 100 61  3 3591.667 30.20 12.67 42.87 74.00 -31.13 peak	No.   Mk   Freq.   Reading Factor   Measurement   Limit   Over   Detector   Height   Degree   Comment

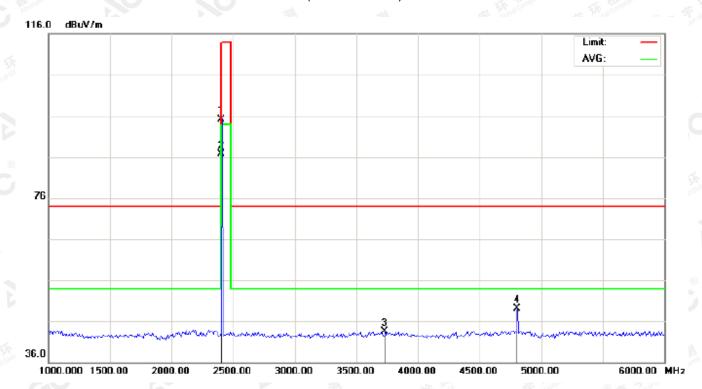
RESULT: PASS

The results spoured 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 XOC, 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.ago.go.tt.com.



Page 24 of 60

## 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	
4	1		2402.000	84.82	10.32	95.14	114.00	-18.86	peak			
	2	*	2402.000	76.42	10.32	86.74	94.00	-7.26	AVG	100	197	
	3		3733.333	29.94	13.55	43.49	74.00	-30.51	peak			
	4		4804.000	41.38	7.69	49.07	74.00	-24.93	peak			

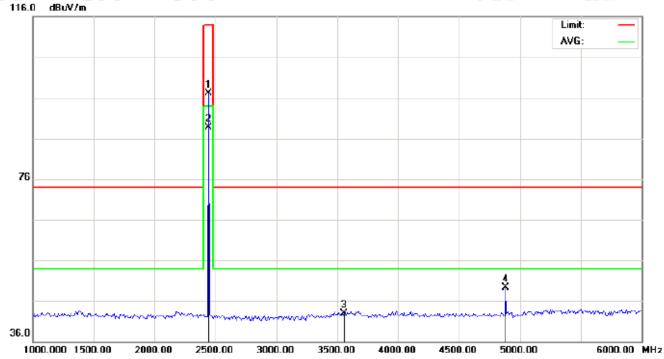
**RESULT: PASS** 

The results showed 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 KGC, 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 although the confirmed at although the confirmed at all the confirmed at al



Page 25 of 60

# 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	86.74	10.36	97.10	114.00	-16.90	peak			
4	2	*	2441.000	78.25	10.36	88.61	94.00	-5.39	AVG	100	52	
	3		3558.333	30.37	12.47	42.84	74.00	-31.16	peak			
	4		4882.000	41.38	7.89	49.27	74.00	-24.73	peak			-

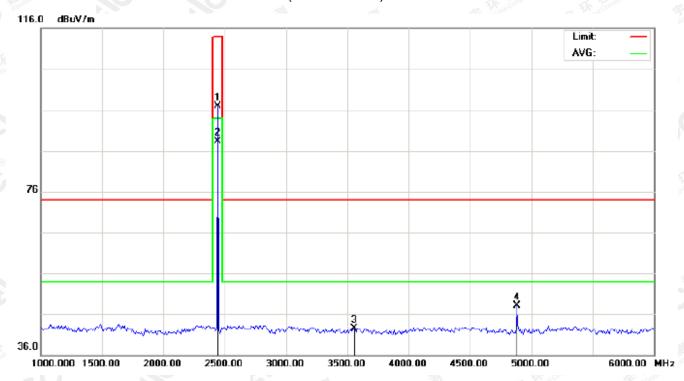
RESULT. PASS

The results showed 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 1000, 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 a trip://www.agc-gett.com.



Page 26 of 60

# 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		2441.000	86.49	10.36	96.85	114.00	-17.15	peak			
2	*	2441.000	77.91	10.36	88.27	94.00	-5.73	AVG	100	199	
3		3558.333	30.07	12.47	42.54	74.00	-31.46	peak			
4		4882.000	40.31	7.89	48.20	74.00	-25.80	peak			

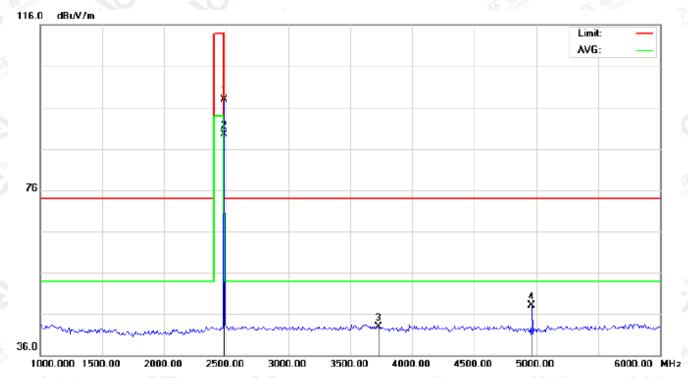
**RESULT: PASS** 

The results showed the sample (s) tested unless otherwise stated and the sample (s) are retained for 30 days only. The document is issued by (SC, 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.ago-gent.com.



Page 27 of 60

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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
4	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree		
	1		2480.000	87.47	10.41	97.88	114.00	-16.12	peak			
	2	*	2480.000	79.00	10.41	89.41	94.00	-4.59	AVG	100	65	
	3		3733.333	29.33	13.55	42.88	74.00	-31.12	peak			
	4		4960.000	40.01	8.09	48.10	74.00	-25.90	peak			

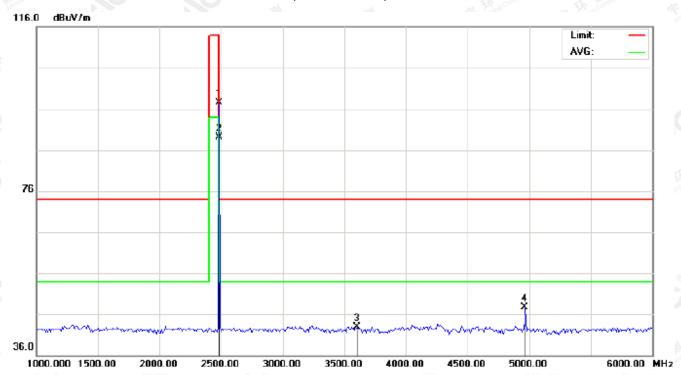
**RESULT: PASS** 

The results showed 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.gett.com.



Page 28 of 60

## 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	87.19	10.41	97.60	114.00	-16.40	peak			
2	*	2480.000	78.65	10.41	89.06	94.00	-4.94	AVG	100	196	
3		3600.000	30.15	12.73	42.88	74.00	-31.12	peak			
4		4960.000	39.66	8.09	47.75	74.00	-26.25	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.

The results spowth 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 attem.//www.agc.com.



Page 29 of 60

# Field strength of the fundamental signal

# 1Mbps Result:

#### Peak value

Frequency	Reading Factor Measurement Limit		Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	85.21	10.32	95.53	114	-18.47	Horizontal
2402	84.82	10.32	95.14	114	-18.86	Vertical
2441	86.74	10.36	97.10	114	-16.90	Morizontal
2441	86.49	10.36	96.85	114	-17.15	Vertical
2480	87.47	10.41	97.88	114	-16.12	Horizontal
2480	87.19	10.41	97.60	114	-16.40	Vertical

## Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	76.77	10.32	87.09	94	-6.91	Horizontal	
2402	76.42	10.32	86.74	94	-7.26	Vertical	
2441	78.25	10.36	88.61	94	-5.39	Horizontal	
2441	77.91	10.36	88.27	94	-5.73	Vertical	
2480	79.00	10.41	89.41	94	-4.59	Horizontal	
2480	78.65	10.41	89.06	94	-4.94	Vertical	

The results showing 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.gatt.com.



Page 30 of 60

#### 2Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Factor Measurement		Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	85.16	10.32	95.48	114	-18.52	Horizontal	
2402	84.71	10.32	95.03	114	-18.97	Vertical	
2441	86.65	10.36	97.01	114	-16.99	Horizontal	
2441	86.40	10.36	96.76	114	-17.24	Vertical	
2480	87.37	10.41	97.78	114	-16.22	Horizontal	
2480	87.10	10.41	97.51	114	-16.49	Vertical	

# Average value

9						LD: 100	
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	76.69	10.32	87.01	94	-6.99	Horizontal	
2402	76.33	10.32	86.65	94	-7.35	Vertical	
2441	78.17	10.36	88.53	94	-5.47	Horizontal	
2441	77.85	10.36	88.21	94	-5.79	Vertical	
2480	78.91	10.41	89.32	94	-4.68	Horizontal	
2480	78.54	10.41	88.95	94	-5.05	Vertical	

The results shown 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.cett.com.



Page 31 of 60

## 3Mbps Result:

#### Peak value

Frequency	Reading Level	• I Factor I Weastirement		Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	85.09	10.32	95.41	114	-18.59	Horizontal	
2402	84.60	10.32	94.92	114	-19.08	Vertical	
2441	86.56	10.36	96.92	114	-17.08	Horizontal	
2441	86.32	10.36	96.68	114	-17.32	Vertical	
2480	87.3	10.41	97.71	114	-16.29	Horizontal	
2480	87.04	10.41	97.45	114	-16.55	Vertical	

# Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	76.61	10.32	86.93	94	-7.07	Horizontal	
2402	76.25	10.32	86.57	94	-7.43	Vertical	
2441	78.07	10.36	88.43	94	-5.57	Horizontal	
2441	77.77	10.36	88.13	94	-5.87	Vertical	
2480	78.83	10.41	89.24	94	-4.76	Horizontal	
2480	78.45	10.41	88.86	94	-5.14	Vertical	

The results shown 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.cett.com.



Page 32 of 60

#### 10. BAND EDGE EMISSION

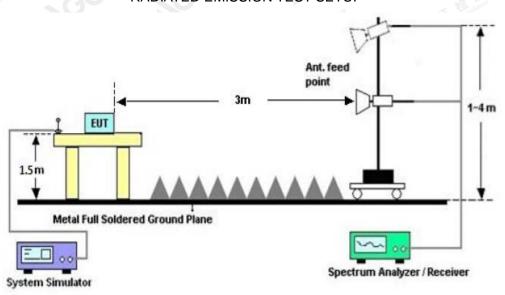
#### 10.1. MEASUREMENT PROCEDURE

- 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.
- Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start frequency(N	MHz)	Stop frequency(MHz)				
2200	和 不吃了	2405	GO Marie			
2478	© # Julion of Clobal C	2500				

#### 10.2 TEST SETUP

## RADIATED EMISSION TEST SETUP



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 XOC, 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.ago.go.tt.com.



Page 33 of 60

## **10.3 RADIATED TEST RESULT**

(Worst modulation: GFSK)

FOR BR/EDR

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



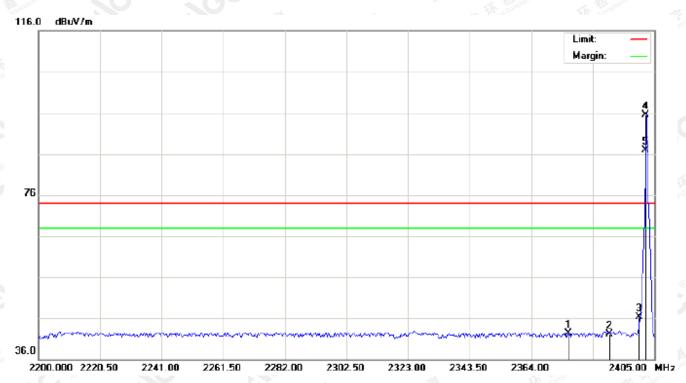
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2378.350	31.66	10.30	41.96	74.00	-32.04	peak			
2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	85.22	10.32	95.54	74.00	21.54	peak			
5	Х	2402.000	76.80	10.32	87.12	74.00	13.12	AVG	100	61	

The results spowth 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.gott.com.



Page 34 of 60

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



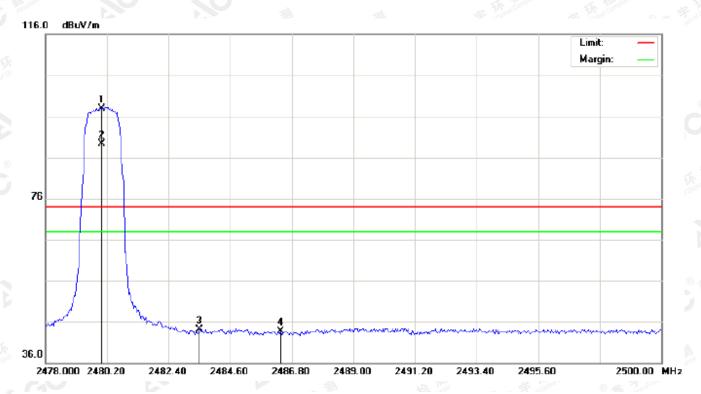
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2376.300	32.09	10.29	42.38	74.00	-31.62	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	85.09	10.32	95.41	74.00	21.41	peak			
5	Х	2402.000	76.52	10.32	86.84	74.00	12.84	AVG	100	195	

The results showed 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.gett.com.



Page 35 of 60

# TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



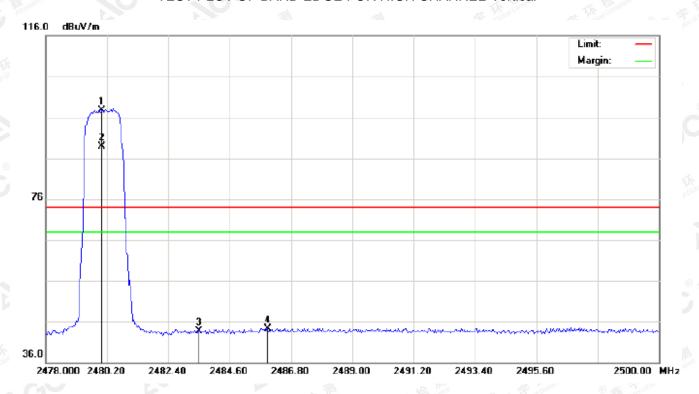
No	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	I	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	87.55	10.41	97.96	74.00	23.96	peak			
2	Х	2480.000	78.83	10.41	89.24	74.00	15.24	AVG	100	58	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2486.396	33.36	10.41	43.77	74.00	-30.23	peak			

The results showed 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 a true. It www.agc. gett.com.



Page 36 of 60

## 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	87.32	10.41	97.73	74.00	23.73	peak			
2	Х	2480.000	78.50	10.41	88.91	74.00	14.91	AVG	100	191	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2485.957	33.98	10.41	44.39	74.00	-29.61	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.

The results spound 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 XCC, 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 a true www.ago.gent.com.



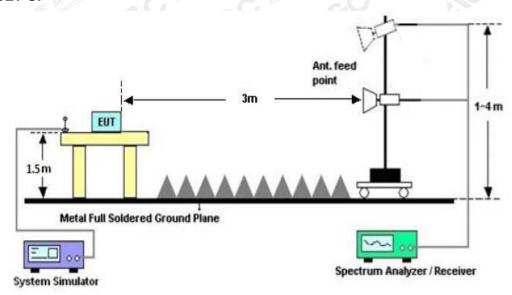
Page 37 of 60

## 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

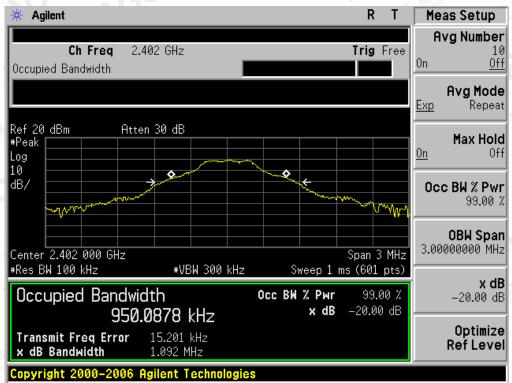
## FOR BR/EDR

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT				
	Measurement Result			
Applicable Limits	Test Data (MHz)			Doords
		99%OBW (MHz)	-20dB BW(MHz)	Result
A Commission (6) Amendment of Co.	Low Channel	0.950	1.092	PASS
N/A	Middle Channel	0.951	1.107	PASS
illi	High Channel	0.957	1.103	PASS

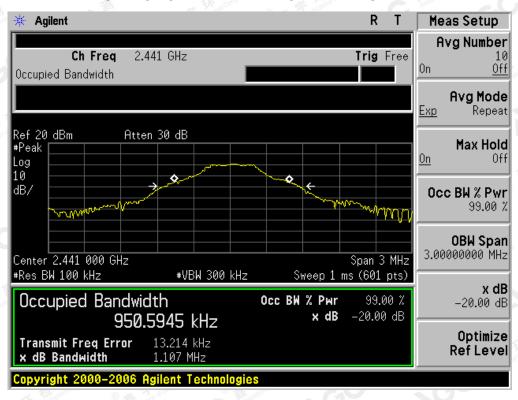
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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

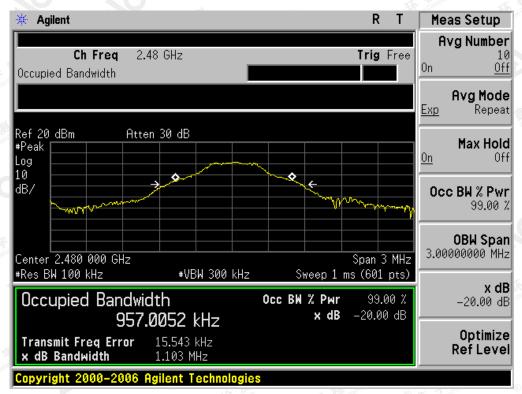


The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



Page 39 of 60

# TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



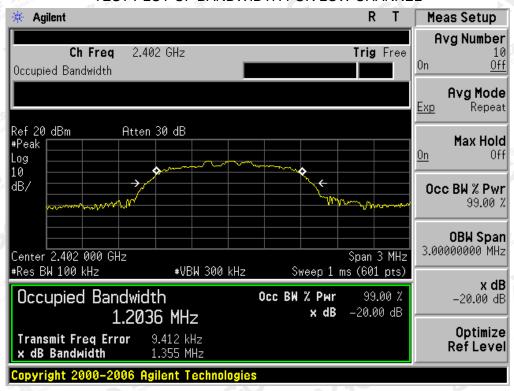
The results spoured this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



Page 40 of 60

BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT				
	Measurement Result			
Applicable Limits	Test Data (MHz)			Docult
		99%OBW (MHz)	-20dB BW(MHz)	Result
N/A	Low Channel	1.204	1.355	PASS
	Middle Channel	1.218	1.366	PASS
	High Channel	1.222	1.376	PASS

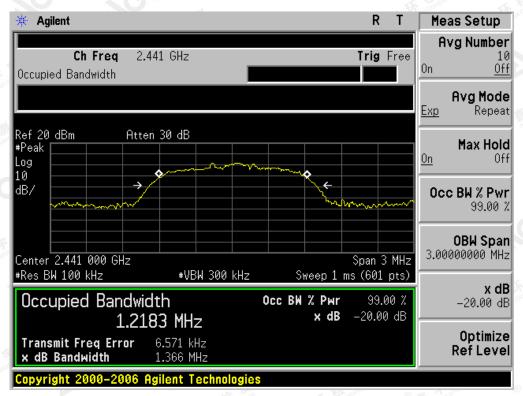
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



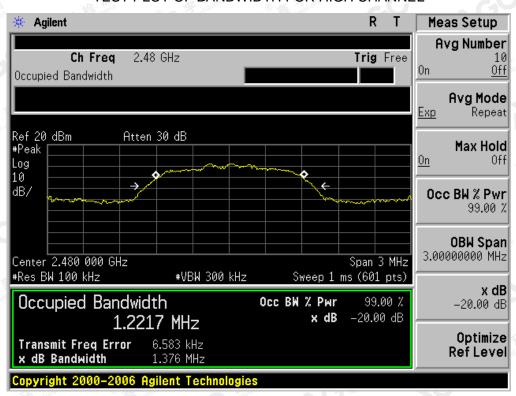
The results spoured this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



## TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



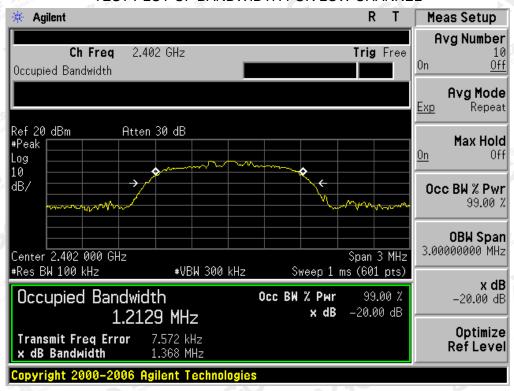
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



Report No.: AGC02011180101FE03 Page 42 of 60

BLUE	TOOTH 3MBPS LIN	MITS AND MEASU	REMENT RESULT	
	Measurement Result			
Applicable Limits	Test Data (MHz)		Decult	
		99%OBW (MHz)	-20dB BW(MHz)	Result
N/A	Low Channel	1.213	1.368	PASS
	Middle Channel	1.215	1.356	PASS
	High Channel	1 236	1.355	PASS

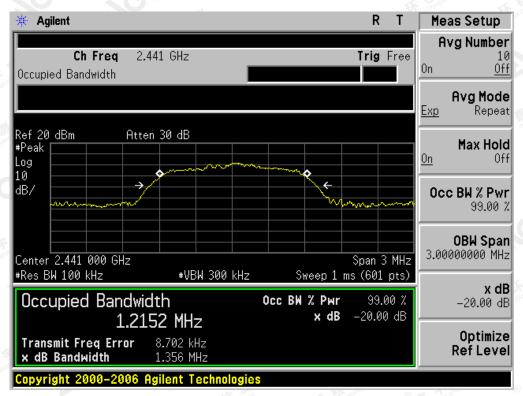
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



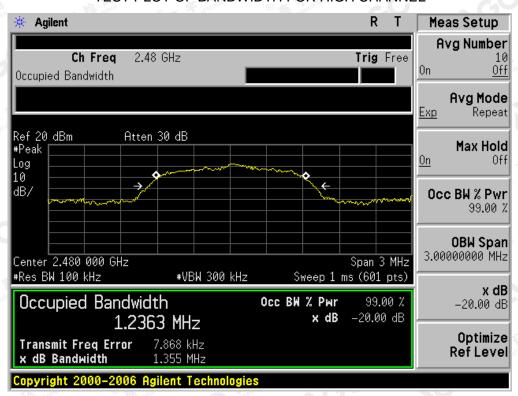
The results spoured this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



## TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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 XOC, 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.ago.go.tt.com.



Page 44 of 60

## 12. FCC LINE CONDUCTED EMISSION TEST

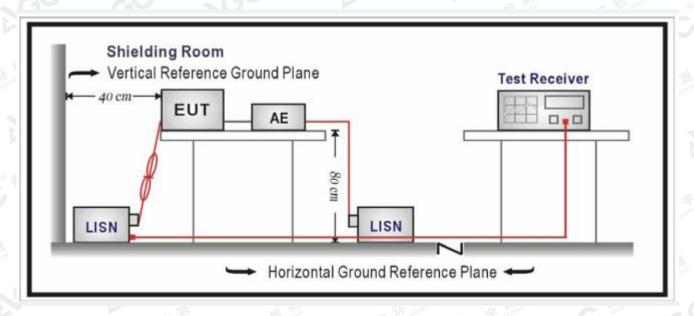
#### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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



The results spound 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 XOC, 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.ago.go.tt.com.



Page 45 of 60

#### 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

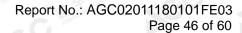
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were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

# 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

**Note**: The BT function of EUT is not work when charging.

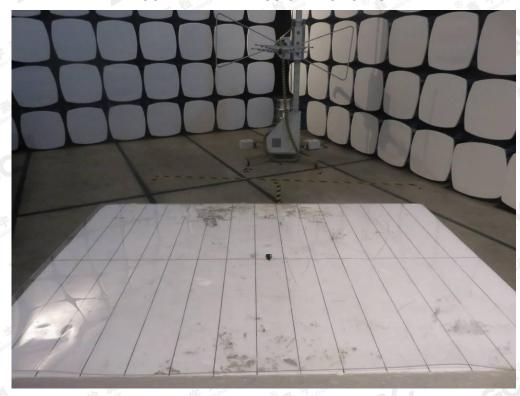
The results spound this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XCC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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

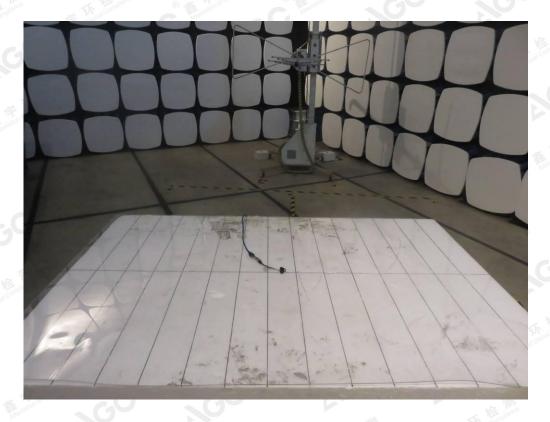




# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP

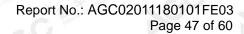




The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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

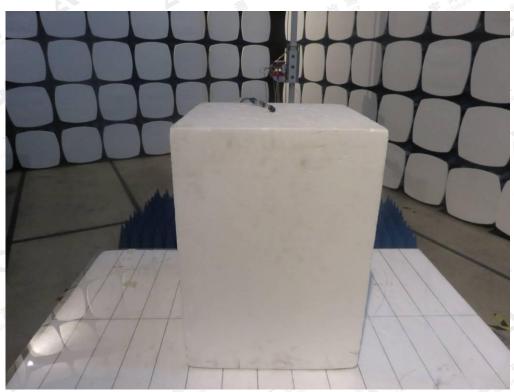
Attestation of Global Compliance

AGC 8









The results shown 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 KGC, 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 http://www.agc.gett.com.



# APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



The results spoured 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 XOC, 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.ago.go.tt.com.



## **BOTTOM VIEW OF EUT**



FRONT VIEW OF EUT



The results showed 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 a true; //www.agc.gett.com.



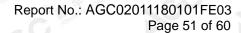
# **BACK VIEW OF EUT**



LEFT VIEW OF EUT



The results shown the sample (s) 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 a the confirmed at





# RIGHT VIEW OF EUT



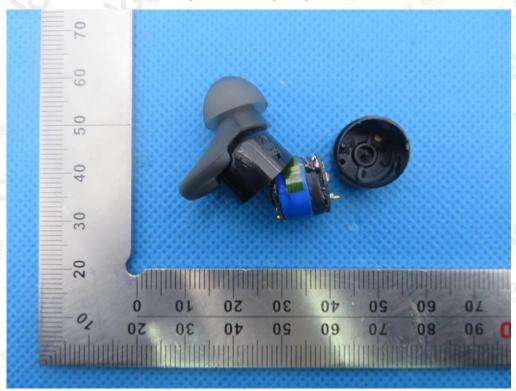
**LEFT**VIEW OF EUT (Port)



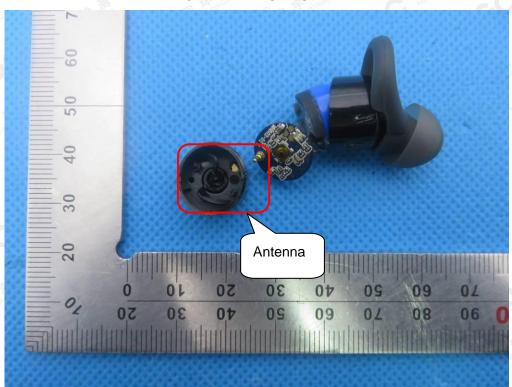
The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



## **OPEN VIEW OF EUT-1**



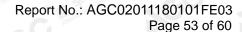
**OPEN VIEW OF EUT-2** 



The results shown 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.gett.com.

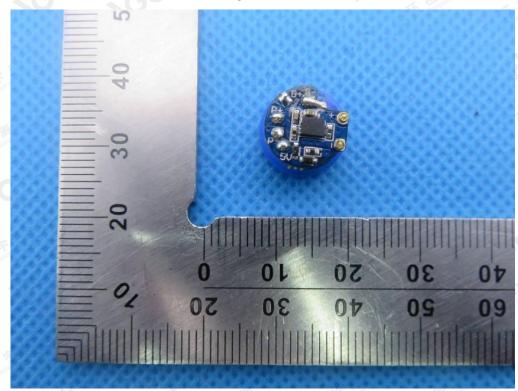
Attestation of Global Compliance

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China

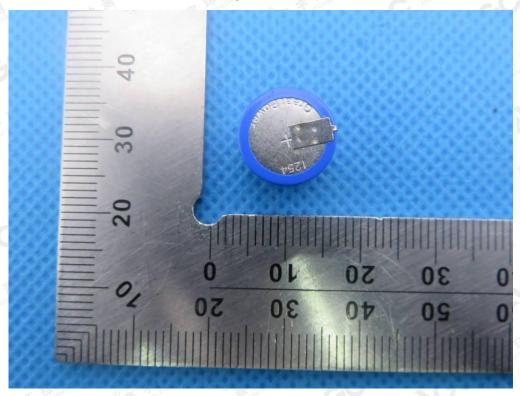




## **VIEW OF BATTERY-1**



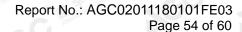
**VIEW OF BATTERY-2** 



The results showed 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 AGE, 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 attr://www.agc-gett.com.

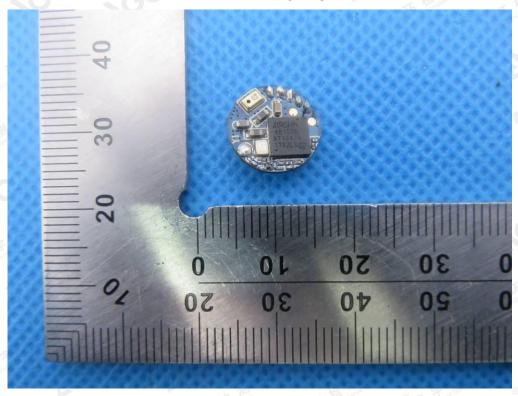
Attestation of Global Compliance

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F. , Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China

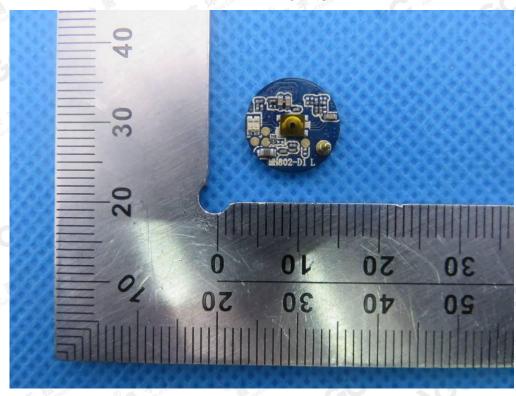




## **INTERNAL VIEW OF EUT-1**



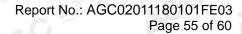
**INTERNAL VIEW OF EUT-2** 



The results showed 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 a state of 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 a state of 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 a state of 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.

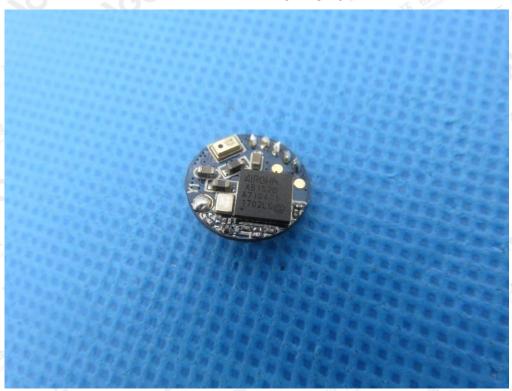
Attestation of Global Compliance

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China





# **INTERNAL VIEW OF EUT-3**



RIGHT
VIEW OF EUT (Port)



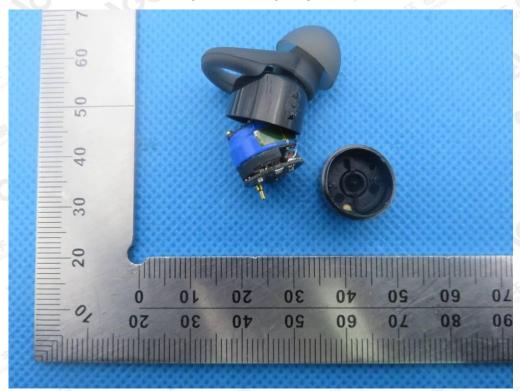
The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the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

Attestation of Global Compliance

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4,Chaxi Sanwei Technical Industrial Park,Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



## **OPEN VIEW OF EUT-1**



**OPEN VIEW OF EUT-2** 



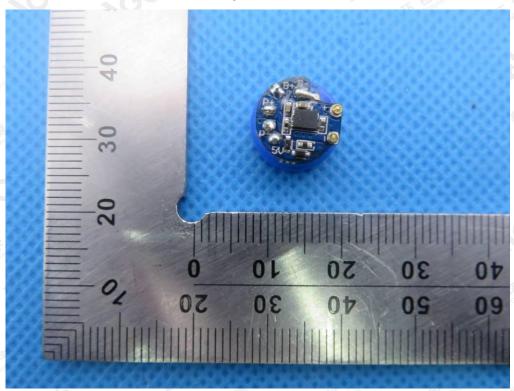
The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the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

Attestation of Global Compliance

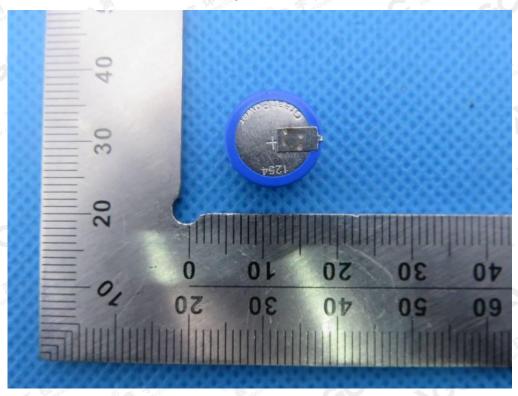
Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



## **VIEW OF BATTERY-1**



**VIEW OF BATTERY-2** 



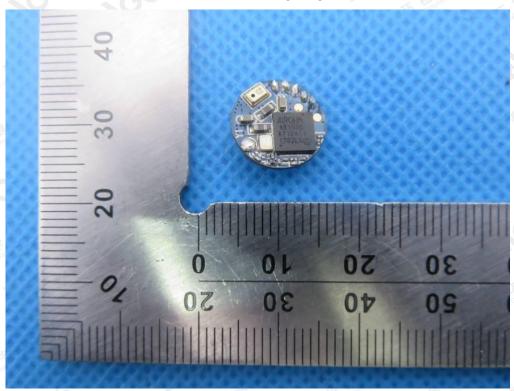
The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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

Attestation of Global Compliance

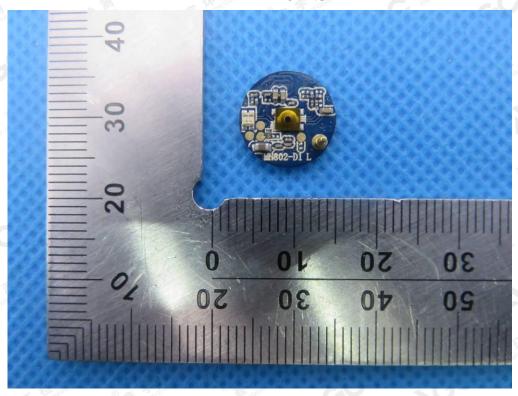
Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F. , Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



# **INTERNAL VIEW OF EUT-1**



**INTERNAL VIEW OF EUT-2** 



The results showed 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 40°C, 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-cett.com.

**IGC** 8 Attestation of Global Compliance

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484

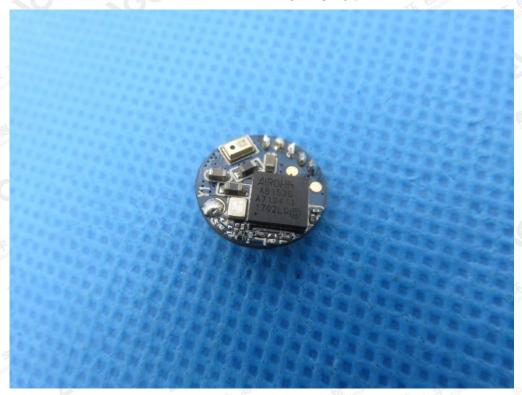
E-mail: agc@agc-cert.com

**6** 400 089 2118



Page 59 of 60

# **INTERNAL VIEW OF EUT-3**



The results shown 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 (60°, 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 http://www.agc.gett.com.



Page 60 of 60

# VIEW OF EUT CHARGING CACE (PORT)-1



VIEW OF EUT CHARGING CACE (PORT)-2



----END OF REPORT----

The results shown in 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 a true of the confirmed at a true of true of the confirmed at a true of the confirmed at a