

# **FCC Test Report**

Report No.: AGC00081180601FE03

FCC ID : 2ACP4SPBT2

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: Bluetooth Speaker

**BRAND NAME** : SENTRY

MODEL NAME : SPBT2

**CLIENT**: Sentry Industries Limited

**DATE OF ISSUE** : Jun. 15, 2018

STANDARD(S)

TEST PROCEDURE(S)

: FCC Part 15 Subpart C Section 15.249

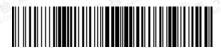
**REPORT VERSION**: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

AGC 3

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Page 2 of 64

# **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	plience / © Marie	Jun. 15, 2018	Valid	Initial release

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# TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	5
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	6
5. SYSTEM TEST CONFIGURATION	8
5.1. CONFIGURATION OF EUT SYSTEM	8 8
6. TEST FACILITY	10
7. TEST METHOD	
8. TEST EQUIPMENT LIST	
9. RADIATED EMISSION	12
9.1. TEST LIMIT 9.2. MEASUREMENT PROCEDURE 9.3. TEST SETUP 9.4. TEST RESULT	12 13
10. BAND EDGE EMISSION	38
10.1. MEASUREMENT PROCEDURE	38 39
11. 20DB BANDWIDTH	43
11.1. MEASUREMENT PROCEDURE	43 43
12. FCC LINE CONDUCTED EMISSION TEST	
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	50 51 51
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	54
APPENDIX B. PHOTOGRAPHS OF FUT	57



Page 4 of 64

#### 1. VERIFICATION OF CONFORMITY

Applicant	Sentry Industries Limited
Address	507 Houston Center, 63 Mody Road, Tst, Hong Kong, China
Manufacturer	Sentry Industries Limited
Address	507 Houston Center, 63 Mody Road, Tst, Hong Kong, China
Product Designation	Bluetooth Speaker
Brand Name	SENTRY
Test Model	SPBT2
Date of test	Jun. 06, 2018 to Jun. 15, 2018
Deviation	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	Horry Zhang	
	Henry Zhang(Zhang Zhuorui)	Jun. 15, 2018
Reviewed By	and change	
	Cool Cheng(Cheng Mengguo)	Jun. 15, 2018
	foresto ci	
Approved By	G Marie	lite
No	Forrest Lei(Lei Yonggang) Authorized Officer	Jun. 15, 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
RF Output Power	3.01dBm(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
Hardware Version	V1.1
Software Version	V1.1
Antenna Designation	PCB Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V by battery
Note:	

- The mini USB port only used for charging and can't be used to transfer data with PC.
   The standard USB port only can read data from U-disk and can't be used to transfer data with PC

#### 2.2. TABLE OF CARRIER FREQUENCYS

**BR/EDR Channel List** 

Frequency Band	Channel Number	Frequency	
极测	OF Manual Control of Manual Co	2402MHz	
© Martin of Clubbal Comm		2403MHz	
30 m		A THE STATE OF THE	
	38	2440 MHz	
2400~2483.5MHz	39	2441 MHz	
CO TO	40	2442 MHz	
		T. Branch	
11000	77	2479 MHz	
THE ACCOUNT COMPANY (S) THE STATE OF THE STA	78	2480 MHz	



Page 6 of 64

#### 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%.

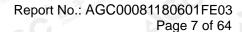
- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

#### 4. DESCRIPTION OF TEST MODES

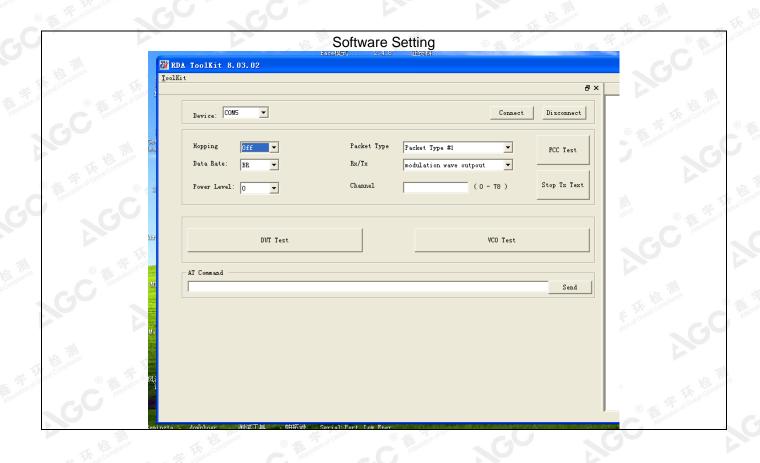
NO.	TEST MODE DESCRIPTION
1 The Manual Company	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
5 K Marine	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9 @ All and a cool	High channel 8DPSK
10	BT Link with charging
11	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.







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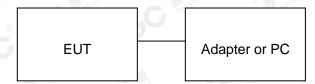


Page 8 of 64

#### 5. SYSTEM TEST CONFIGURATION

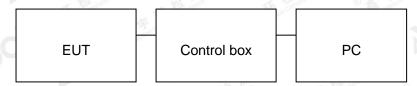
#### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Note: Owing to the EUT has own battery, and testing may be performed while PC or adapter removed.

Configure 2: (Control continuous TX)



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

Item	Equipment	Mfr/Brand	Model/Type No.	Remark	
1 Bluetooth Speaker		SENTRY	SPBT2	EUT	
2	Battery	Linuo	602035	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	SERIAL	N/A	A.E	
5	Adapter	IPRO	NTR-S01	A.E	
6	USB Cable	N/A	1m unshielded	A.E	
7	TF Card	Kingston	SDA10/16GB	A.E	
8	U-Disk	Kingston	DT 101G2/16GB	A.E	
9	IPOD	APPLE	A1367	A.E	

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Page 9 of 64

#### **5.3. SUMMARY OF TEST RESULTS**

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



Page 10 of 64

### 6. TEST FACILITY

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



age 11 of 64

#### 7. TEST METHOD

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

#### 8. TEST EQUIPMENT LIST

#### **TEST EQUIPMENT OF CONDUCTED EMISSION TEST**

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

#### **TEST EQUIPMENT OF RADIATED EMISSION TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	June 6, 2018	June 5, 2019
Radiation Cable 2	MXT	RS1	R006	June 6, 2018	June 5, 2019
Loop Antenna	A.H.Systems,Inc	SAS-562B	-1111	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	The Compliance (S. A.	Jun.20, 2017	Jun.19, 2018

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Page 12 of 64

#### 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 Str	engths 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)	E
1.705 ~ 30	30	30	Color Color
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 M. GC	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.



Page 13 of 64

#### 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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Page 14 of 64

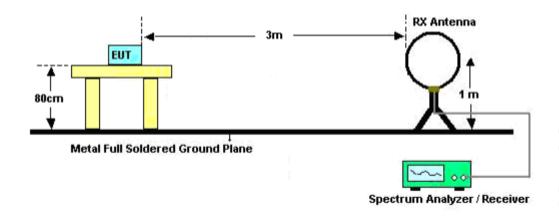
The following table is the setting of spectrum analyzer and receiver.

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

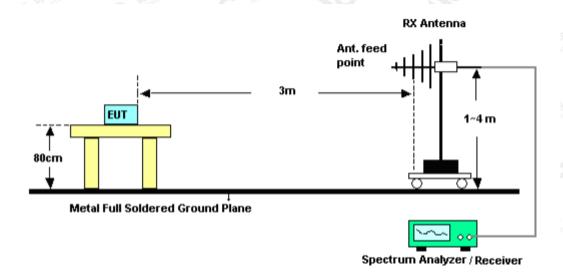


#### 9.3. TEST SETUP

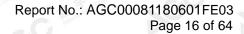
#### RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



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

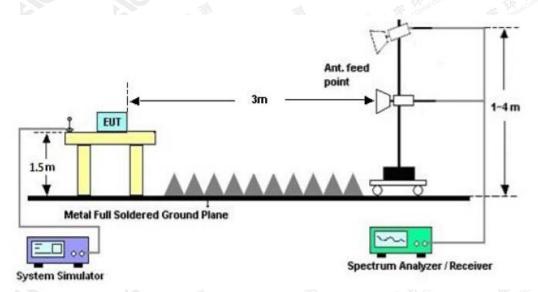


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#### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Page 17 of 64

#### 9.4. TEST RESULT

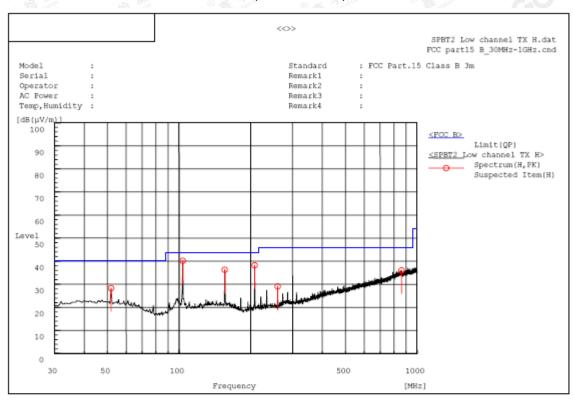
(Worst modulation: GFSK)

#### **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



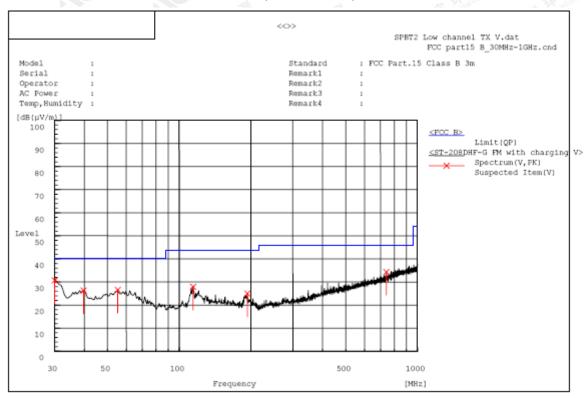
#### A. Suspected List:

(X)	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(u∀/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	51.825	H	11.4	16.9	28.3	40.0	11.7	Pass	150.0	166.0
	103.720	Н	26.3	13.9	40.2	43.5	3.3	Pass	150.0	18.1
6	155.615	Н	19.7	16.6	36.3	43.5	7.2	Pass	200.0	323.4
	207.995	Н	24.4	13.8	38.2	43.5	5.3	Pass	100.0	69.8
	259.890	Н	13.1	15.9	29.0	46.0	17.0	Pass	100.0	329.7
	861.290	Н	6.3	29.7	36.0	46.0	10.0	Pass	100.0	132.7

**RESULT: PASS** 



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



#### A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	30.000	V	15.2	15.5	30.7	40.0	9.3	Pass	100.0	336.5
Г	39.700	V	8.9	17.4	26.3	40.0	13.7	Pass	100.0	228.2
	55.220	v	9.9	16.7	26.6	40.0	13.4	Pass	200.0	132.8
	114.390	V	13.0	14.9	27.9	43.5	15.6	Pass	100.0	42.1
34	193.445	V	11.4	13.6	25.0	43.5	18.5	Pass	150.0	198.1
	741.010	V	7.0	27.3	34.3	46.0	11.7	Pass	100.0	358.4

#### **RESULT: PASS**

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

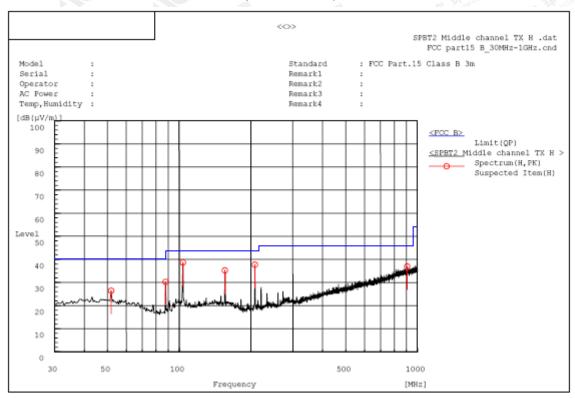
The "Factor" value can be calculated automatically by software of measurement system.

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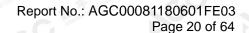
#### RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



#### A. Suspected List:

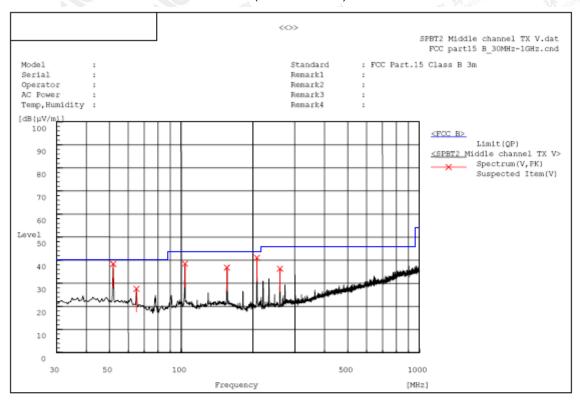
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
51.825	H	9.5	16.9	26.4	40.0	13.6	Pass	100.0	214.1
87.715	Н	18.0	12.3	30.3	40.0	9.7	Pass	150.0	10.4
103.720	H	24.8	13.9	38.7	43.5	4.8	Pass	200.0	28.9
155.615	Н	18.6	16.6	35.2	43.5	8.3	Pass	200.0	136.0
207.995	Н	23.9	13.8	37.7	43.5	5.8	Pass	150.0	58.2
906.395	Н	6.7	30.2	36.9	46.0	9.1	Pass	200.0	271.8

**RESULT: PASS** 





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



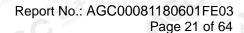
#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
51.825	V	21.5	16.9	38.4	40.0	1.6	Pass	100.0	348.4
64.920	v	12.1	15.6	27.7	40.0	12.3	Pass	100.0	189.4
103.720	V	24.6	13.9	38.5	43.5	5.0	Pass	100.0	181.0
155.615	V	20.2	16.6	36.8	43.5	6.7	Pass	150.0	83.8
207.995	v	27.3	13.8	41.1	43.5	2.4	Pass	100.0	36.6
259.890	V	20.4	15.9	36.3	46.0	9.7	Pass	200.0	46.4

#### **RESULT: PASS**

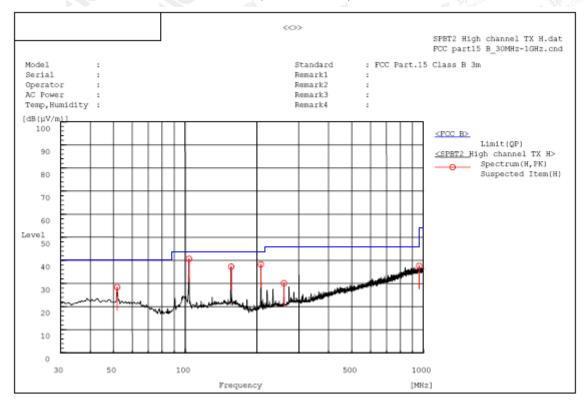
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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





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



#### A. Suspected List:

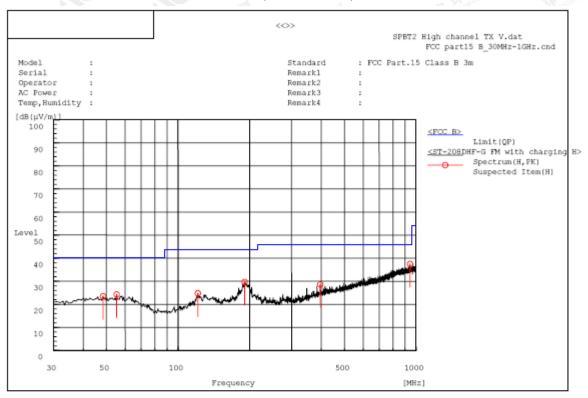
Fr	requency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	51.825	H	11.5	16.9	28.4	40.0	11.6	Pass	100.1	255.7
	103.720	Н	26.8	13.9	40.7	43.5	2.8	Pass	200.0	357.3
	156.100	H	20.7	16.6	37.3	43.5	6.2	Pass	200.0	342.0
. 2	207.995	Н	24.5	13.8	38.3	43.5	5.2	Pass	150.0	78.4
2	259.890	Н	14.2	15.9	30.1	46.0	15.9	Pass	100.1	304.5
9	960.230	Н	6.8	30.8	37.6	54.0	16.4	Pass	100.1	72.4

**RESULT: PASS** 



Report No.: AGC00081180601FE03 Page 22 of 64

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



#### A. Suspected List:

70	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg	7.007
	48.430	V	6.4	17.1	23.5	40.0	16.5	Pass	100.0	320.0	
(	55.220	v	7.6	16.7	24.3	40.0	15.7	Pass	100.0	282.0	0
	121.180	V	9.3	15.5	24.8	43.5	18.7	Pass	200.0	144.4	l
6	190.535	V	16.0	13.7	29.7	43.5	13.8	Pass	100.0	267.2	l
6	396.175	v	7.9	20.7	28.6	46.0	17.4	Pass	100.0	38.0	
	944.710	v	6.9	30.6	37.5	46.0	8.5	Pass	150.0	35.8	

#### **RESULT: PASS**

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

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



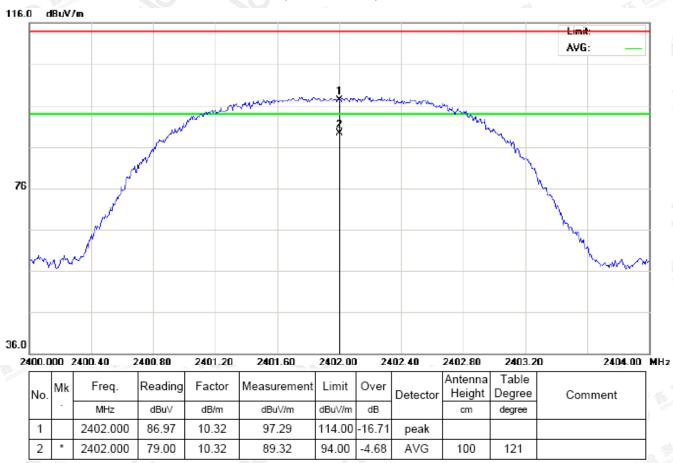
Page 23 of 64

#### **RADIATED EMISSION ABOVE 1GHz**

(Worst modulation: GFSK)

#### For Fundamental

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

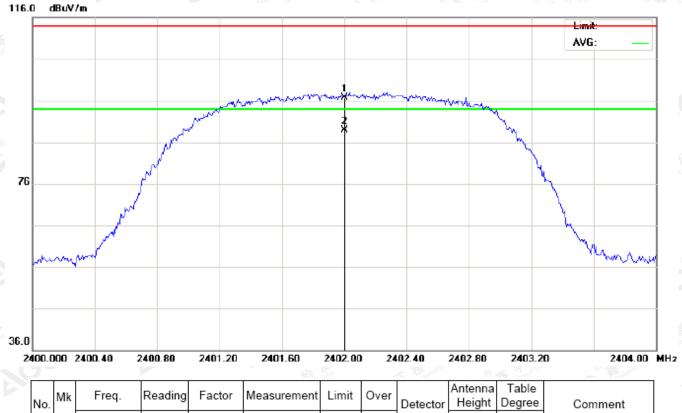


RESULT: PASS



Page 24 of 64

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	86.48	10.32	96.80	114.00	-17.20	peak			
2	*	2402.000	78.55	10.32	88.87	94.00	-5.13	AVG	100	335	

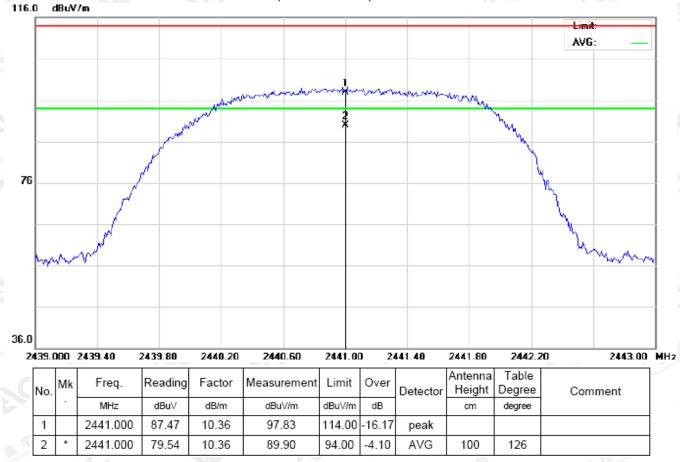
**RESULT: PASS** 

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Page 25 of 64

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



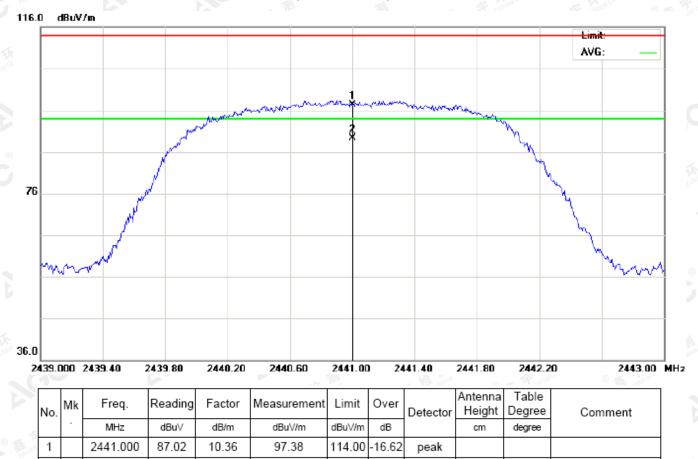
**RESULT: PASS** 

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Page 26 of 64

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



94.00

-4.61

AVG

100

333

**RESULT: PASS** 

2441.000

79.03

10.36

89.39

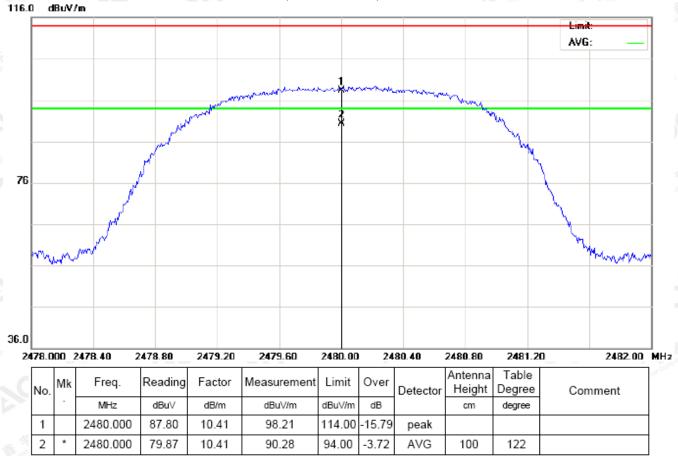
2

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Page 27 of 64

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



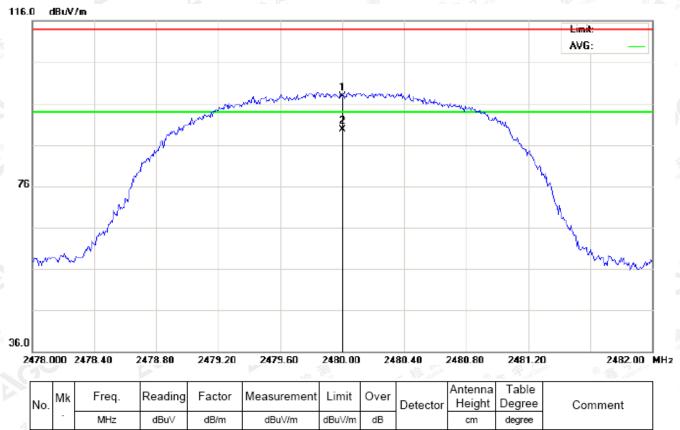
**RESULT: PASS** 

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Page 28 of 64

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



#### 97.75 2480.000 87.34 10.41 114.00 -16.25 peak 89.77 2 2480.000 79.36 10.41 94.00 -4.23 AVG 100 332

#### **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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Page 29 of 64

#### Field strength of the fundamental signal

#### 1Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	86.97	10.32	97.29	114	-16.71	Horizontal
2402	86.48	10.32	96.80	114	-17.20	Vertical
2441	87.47	10.36	97.83	114	-16.17	Horizontal
2441	87.02	10.36	97.38	114	-16.62	Vertical
2480	87.80	10.41	98.21	114	-15.79	Horizontal
2480	87.34	10.41	97.75	114	-16.25	Vertical

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	79.00	10.32	89.32	94	-4.68	Horizontal
2402	78.55	10.32	88.87	94	-5.13	Vertical
2441	79.54	10.36	89.90	94	-4.10	Horizontal
2441	79.03	10.36	89.39	94	-4.61	Vertical
2480	79.87	10.41	90.28	94	-3.72	Horizontal
2480	79.36	10.41	89.77	94	-4.23	Vertical



Page 30 of 64

#### 2Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	86.57	10.32	96.89	114	-17.11	Horizontal	
2402	86.04	10.32	96.36	114	-17.64	Vertical	
2441	87.01	10.36	97.37	114	-16.63	Horizontal	
2441	86.55	10.36	96.91	114	-17.09	Vertical	
2480	87.38	10.41	97.79	114	-16.21	Horizontal	
2480	2480 86.94 10.41		97.35	114	-16.65	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	78.53	10.32	88.85	94	-5.15	Horizontal	
2402	2 78.11 10.32		88.43	94	-5.57	Vertical	
2441	79.11	10.36	89.47	94	-4.53	Horizontal	
2441	78.60	10.36	88.96	94	-5.04	Vertical	
2480	79.45	10.41	89.86	94	-4.14	Horizontal	
2480	78.95	10.41	89.36	94	-4.64	Vertical	



Page 31 of 64

#### 3Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	86.10	10.32	96.42	114	-17.57	Horizontal	
2402	85.57	10.32	95.89	114	-18.11	Vertical	
2441	86.60	10.36	96.96	114	-17.04	Horizontal	
2441	86.11	10.36	96.47	114	-17.53	Vertical	
2480	86.94	10.41	97.35	114	-16.65	Horizontal	
2480	86.47	10.41	96.88	114	-17.12	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	78.13	10.32	88.45	94	-5.55	Horizontal	
2402	2402 77.70 10.32		88.02	94	-5.98	Vertical	
2441	78.68	10.36	89.04	94	-4.96	Horizontal	
2441	78.18	10.36	88.54	94	-5.46	Vertical	
2480	79.03	10.41	89.44	94	-4.56	Horizontal	
2480	78.50	10.41	88.91	94	-5.09	Vertical	

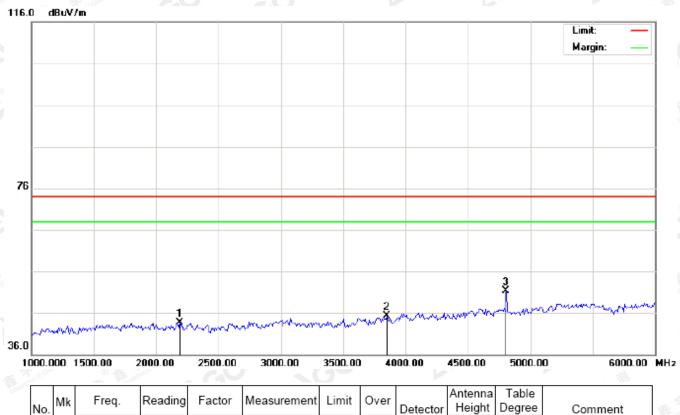


Page 32 of 64

## (Worst modulation: GFSK)

#### **For Harmonics**

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



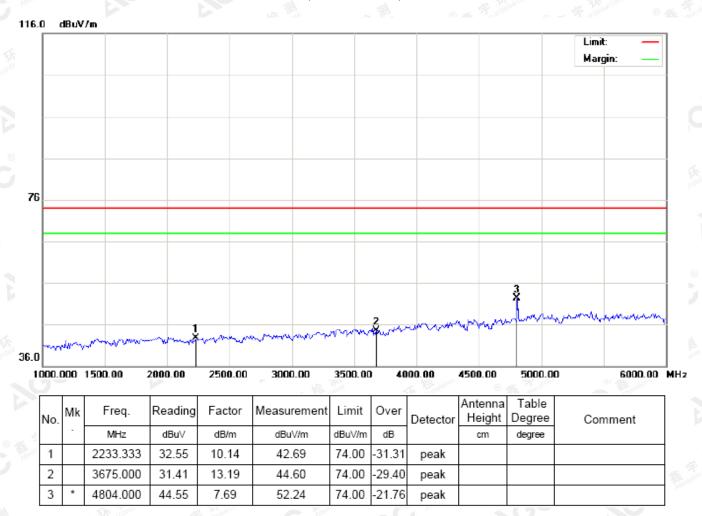
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2191.667	33.57	10.09	43.66	74.00	-30.34	peak			
2		3850.000	31.11	14.27	45.38	74.00	-28.62	peak			
3	*	4804.000	43.71	7.69	51.40	74.00	-22.60	peak			

**RESULT: PASS** 



Page 33 of 64

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



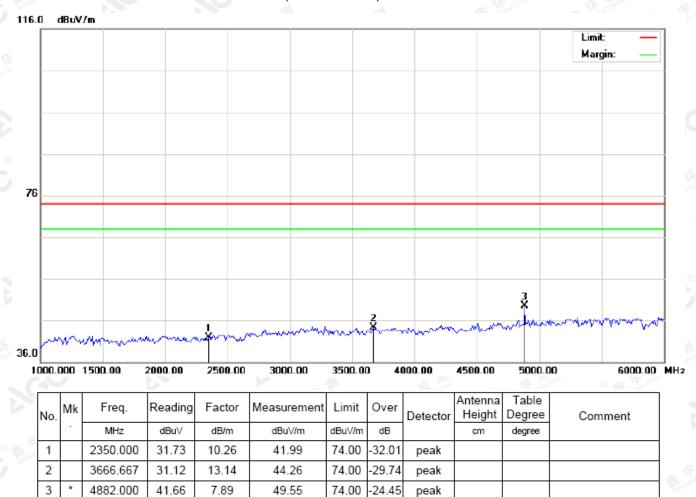
**RESULT: PASS** 

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Page 34 of 64

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



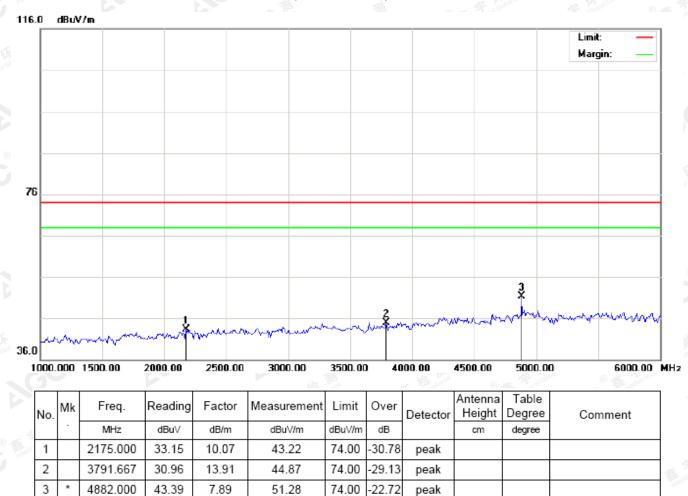
**RESULT: PASS** 

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Page 35 of 64

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



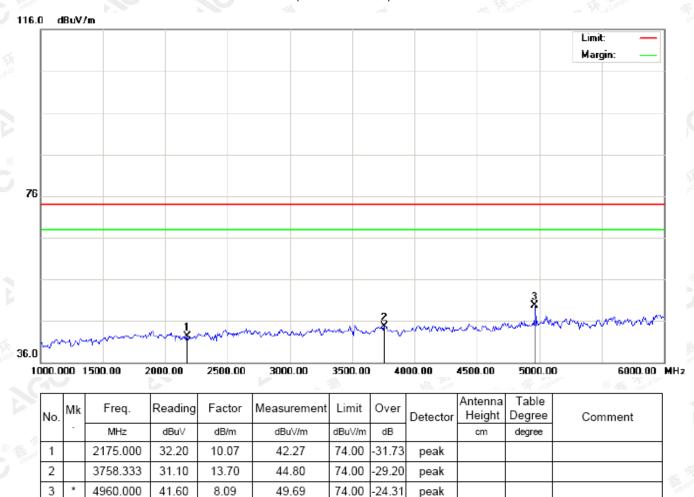
**RESULT: PASS** 

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Page 36 of 64

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



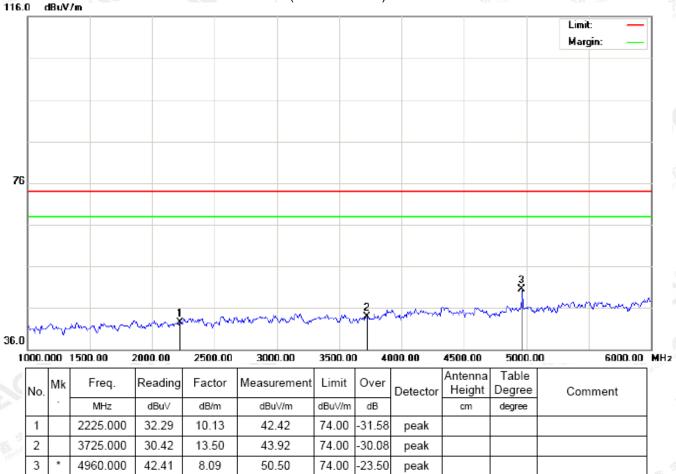
**RESULT: PASS** 

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Page 37 of 64

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



#### **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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Page 38 of 64

### 10. BAND EDGE EMISSION

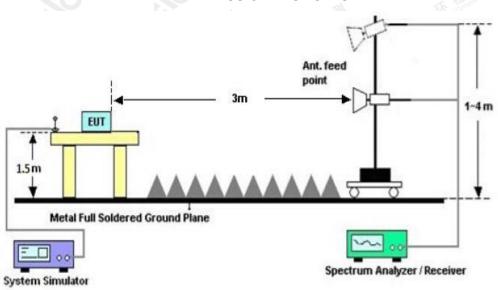
#### 10.1. MEASUREMENT PROCEDURE

- 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 frequenc	y(MHz)			Stop frequency(MH	z)
	2200	Kingliance	The Compilers	© A station	2405	100°
8 M. H	2478	Global Co	attestation of Glob	-,0 "	2500	

#### 10.2 TEST SETUP

### RADIATED EMISSION TEST SETUP



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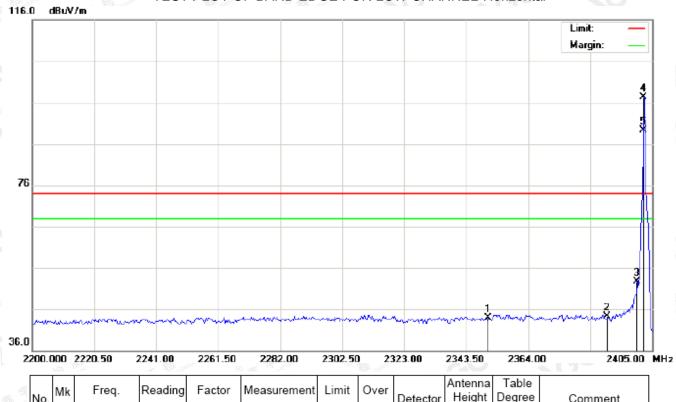


Page 39 of 64

# **10.3 RADIATED TEST RESULT**

(Worst modulation: GFSK)

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



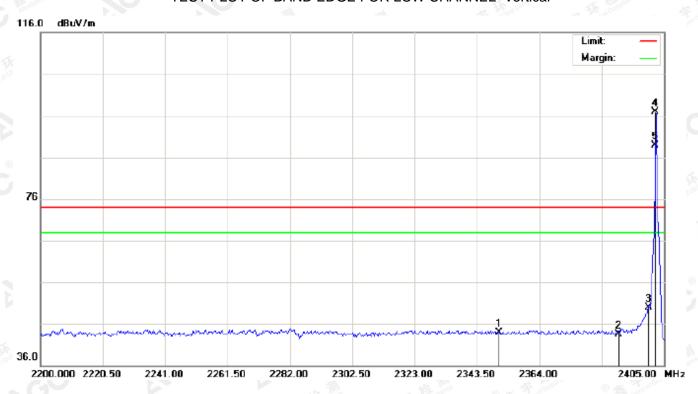
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2350.675	33.69	10.27	43.96	74.00	-30.04	peak			
2		2390.000	34.00	10.31	44.31	74.00	-29.69	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	86.94	10.32	97.26	74.00	23.26	peak			
5	Х	2402.000	78.97	10.32	89.29	74.00	15.29	AVG	100	125	

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Page 40 of 64

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



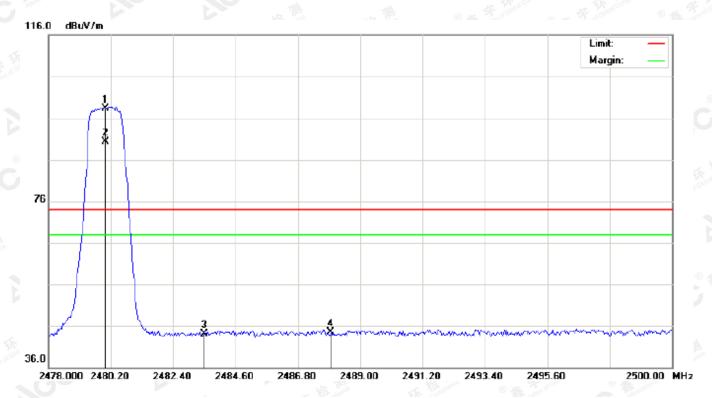
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ź.	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2350.675	33.59	10.27	43.86	74.00	-30.14	peak			
2		2390.000	33.21	10.31	43.52	74.00	-30.48	peak			
3		2400.000	39.56	10.32	49.88	74.00	-24.12	peak			
4	*	2402.000	86.51	10.32	96.83	74.00	22.83	peak			
5	Х	2402.000	78.58	10.32	88.90	74.00	14.90	AVG	100	334	

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Page 41 of 64

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



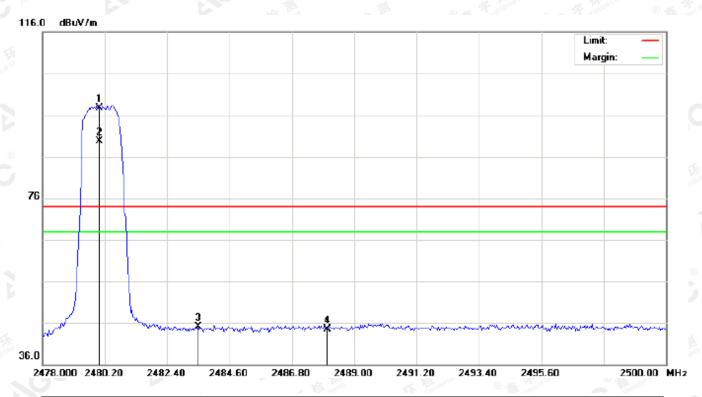
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
3	1	*	2480.000	87.84	10.41	98.25	74.00	24.25	peak			
ſ	2	Х	2480.000	79.89	10.41	90.30	74.00	16.30	AVG	100	123	
	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
	4		2487.973	34.13	10.42	44.55	74.00	-29.45	peak			

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Page 42 of 64

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



N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	i	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
2	1	*	2480.000	87.32	10.41	97.73	74.00	23.73	peak			
	2	Х	2480.000	79.33	10.41	89.74	74.00	15.74	AVG	100	330	
	3		2483.500	34.76	10.41	45.17	74.00	-28.83	peak			
	4		2488.047	34.08	10.42	44.50	74.00	-29.50	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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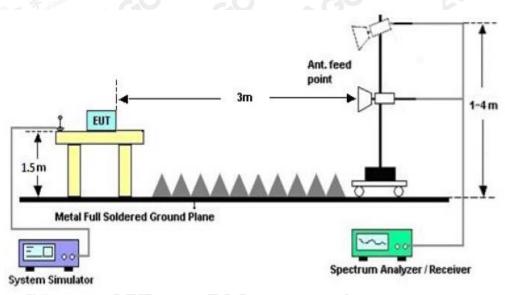
Page 43 of 64

### 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

		WE " 48	alla.	6101
BLUET	OOTH 1MBPS LIN	MITS AND MEASU	REMENT RESULT	
		Measure	ement Result	
Applicable Limits		Result		
The the tenter of the tenter o	Low Channel	0.910	1.085	PASS
N/A	Middle Channel	0.902	1.069	PASS
100	High Channel	0.915	1.065	PASS

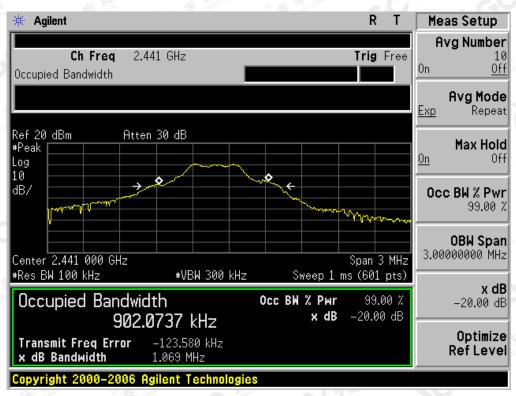
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



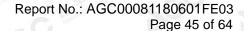
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

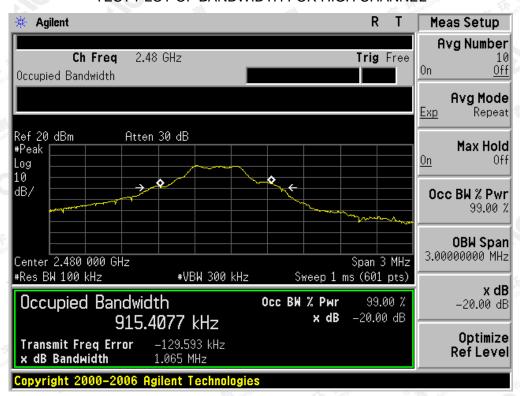


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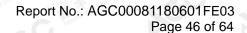




#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



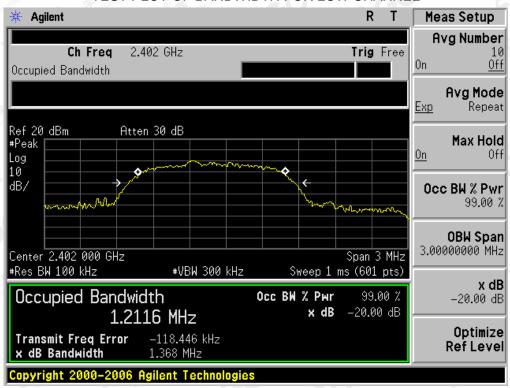
The results spoured this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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





BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result									
Applicable Limits		Result								
		Result								
下发现。 不是现象	Low Channel	1.212	1.368	PASS						
N/A	Middle Channel	1.210	1.370	PASS						
	High Channel	1.226	1.365	PASS						

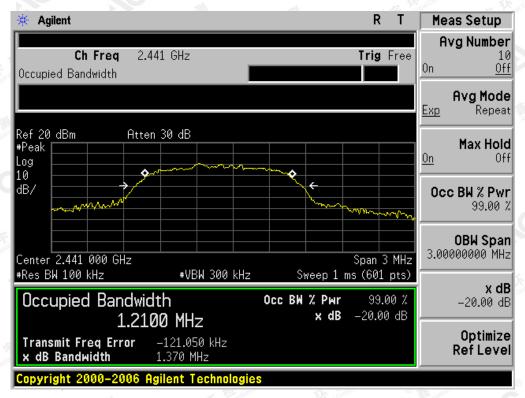
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



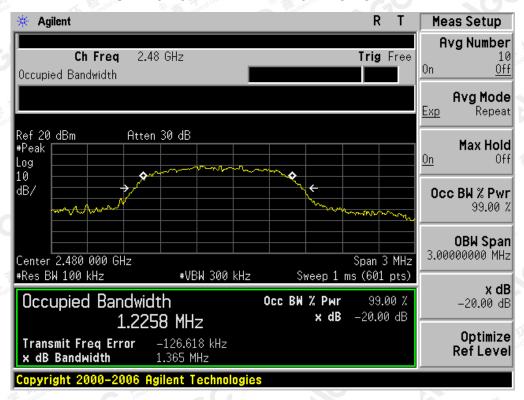
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



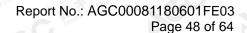
#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



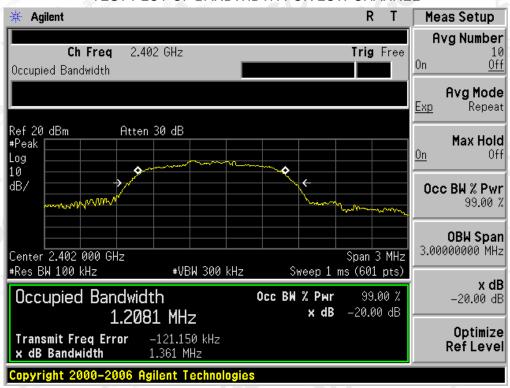
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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





BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result									
Applicable Limits		Decult								
		Result								
不 整 测 不 整 测 1	Low Channel	1.208	1.361	PASS						
N/A	Middle Channel	1.207	1.370	PASS						
	High Channel	1.219	1.380	PASS						

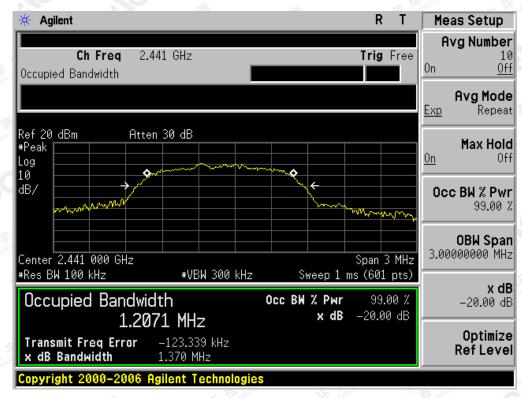
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



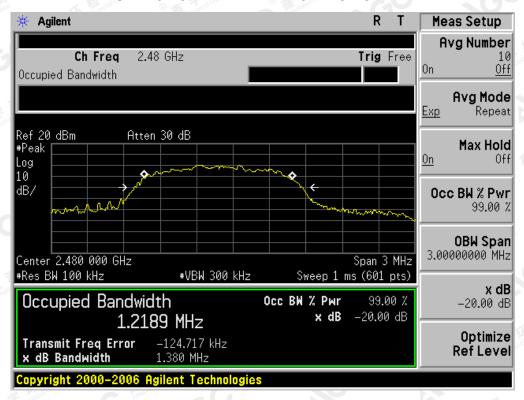
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Page 50 of 64

### 12. FCC LINE CONDUCTED EMISSION TEST

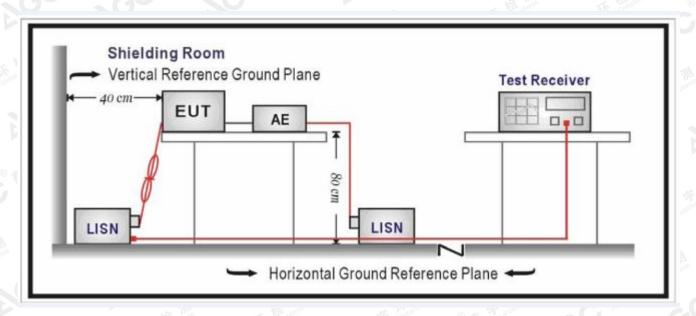
### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF	Maximum RF Line Voltage							
Frequency	Q.P.( dBuV)	Average( dBuV)							
150kHz~500kHz	66-56	56-46							
500kHz~5MHz	8 Age 12	46/							
5MHz~30MHz	60	50							

#### Note:

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

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



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Page 51 of 64

#### 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.

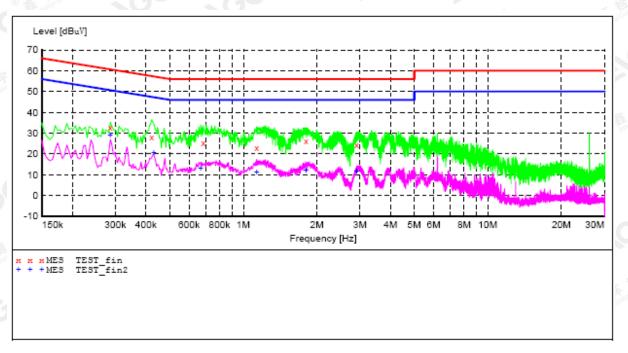
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#### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

#### By adapter(worst case)

#### Line Conducted Emission Test Line 1-L



#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.286000 0.422000 0.686000 1.134000 1.806000 2.910000	32.80 28.20 25.30 22.80 26.10 24.50	10.1 10.1 10.1 10.2 10.2	61 57 56 56 56	27.8 29.2 30.7 33.2 29.9 31.5	QP QP QP QP QP OP	L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO

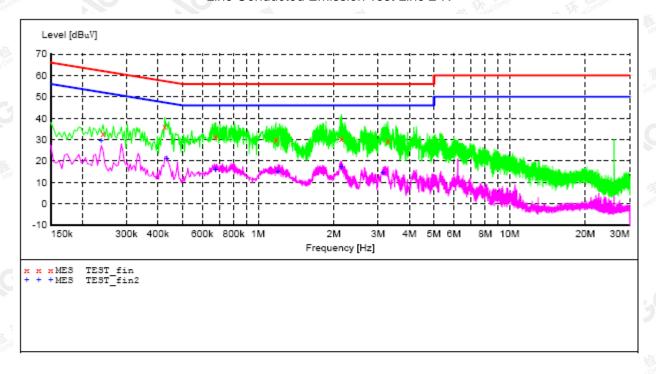
#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.286000 0.430000 0.670000 1.134000 1.806000 2.910000	29.00 20.40 13.20 11.00 12.40 11.60	10.1 10.1 10.1 10.2 10.2 9.9	51 47 46 46 46 46	21.6 26.9 32.8 35.0 33.6 34.4	AV AV AV AV AV	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO

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#### Line Conducted Emission Test Line 2-N



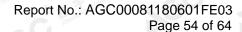
#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.242000 0.426000 0.678000 1.178000 2.146000 3.286000	32.70 36.00 31.20 30.10 30.60 29.40	10.1 10.1 10.1 10.2 10.1 10.0	62 57 56 56 56	29.3 21.3 24.8 25.9 25.4 26.6	QP QP QP QP QP QP	N N N N N	FLO FLO FLO FLO FLO

#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.238000 0.434000 0.678000	29.30 21.20 16.10	10.1 10.1 10.1	52 47 46	22.9 26.0 29.9	AV AV AV	N N N	FLO FLO FLO
1.202000	14.90 17.20	10.2	46 46	31.1	AV AV	N N	FLO FLO
3.142000	14.50	9.9	46		AV	N	FLO

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### APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



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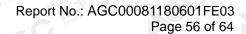
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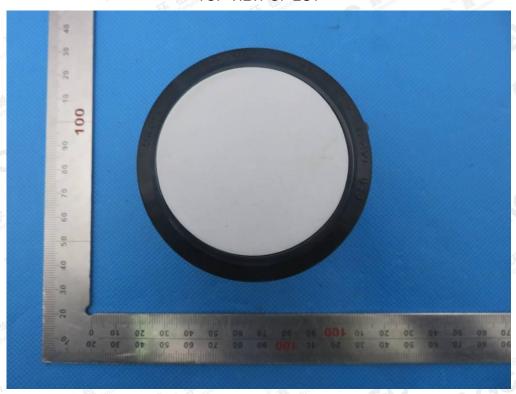


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### **APPENDIX B: PHOTOGRAPHS OF EUT**

TOP VIEW OF EUT



**BOTTOM VIEW OF EUT** 



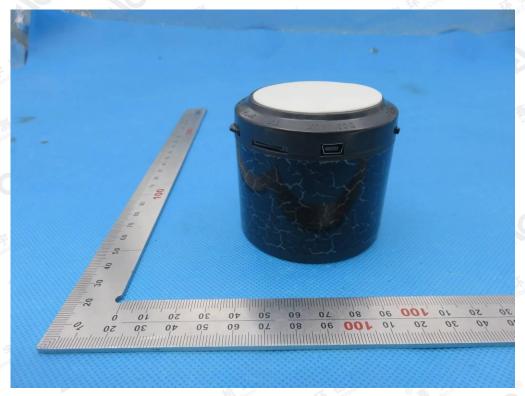
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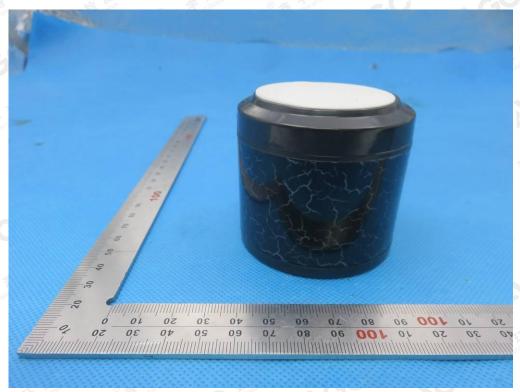
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### FRONT VIEW OF EUT



**BACK VIEW OF EUT** 



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### LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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# VIEW OF EUT (PORT)-1



VIEW OF EUT (PORT)-2



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# VIEW OF EUT (PORT)-3



**OPEN VIEW OF EUT** 



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### **VIEW OF BATTERY-1**



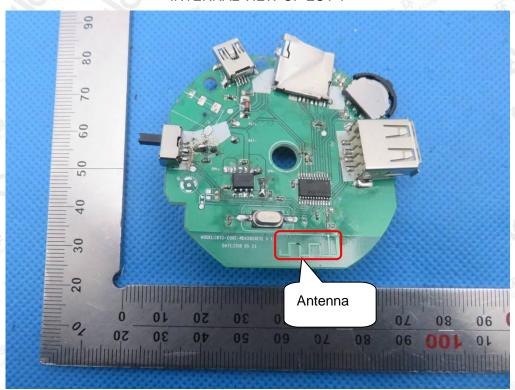
**VIEW OF BATTERY-2** 



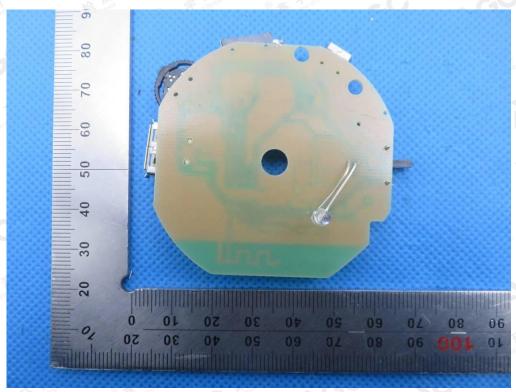
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### **INTERNAL VIEW OF EUT-1**



**INTERNAL VIEW OF EUT-2** 



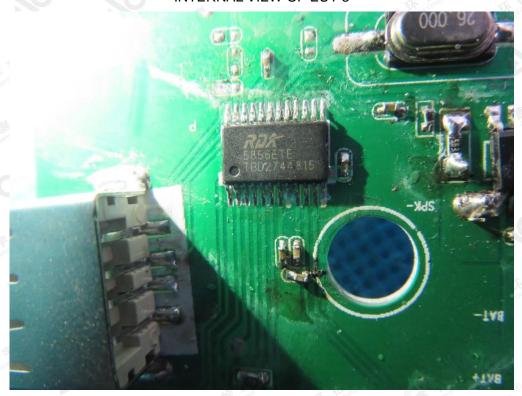
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# **INTERNAL VIEW OF EUT-3**



VIEW OF ADAPTER (AE)



The adapter was supplied by AGC

### ----END OF REPORT----

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