

# **FCC Test Report**

Report No.: AGC00159180702FE03

FCC ID : QIF-LC-D02

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: Bluetooth earphone

**BRAND NAME** : N/A

MODEL NAME : LC-D02

**CLIENT** : My Music Group Limited

**DATE OF ISSUE** : July 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

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Attestation of Global Compliance

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## **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		July 25, 2018	Valid	Initial release

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## 1. VERIFICATION OF CONFORMITY

Applicant	My Music Group Limited
Address	Room No.2026, Global Logistics Service Center, China South City, Pinghu Town, Longgang, SZ, China.
Manufacturer	Dongguan Fulun Electronic Co.,Limited
Address	4-8/F, Building B, Xinbosheng Industrial Park, No.5 Xinyuan S Rd, Tangxia, Dongguan.CN
Product Designation	Bluetooth earphone
Brand Name	N/A
Test Model	LC-D02
Date of test	July 13, 2018 to July 23, 2018
Deviation	None
Condition of Test Sample	Normal 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	Jorden 1	Wand
C Francisco	Jonhen Wang(Wang Yong)	huan) July 23, 2018
	cvol ch	eng
Reviewed By	ion of the Alles	
	Cool Cheng(Cheng Meng	guo) July 25, 2018
天龙湖	Fowers	C.C.
Approved By		
	Forrest Lei(Lei Yonggan Authorized Officer	July 25, 2018

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## 2. GENERAL INFORMATION

## 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

	VII.
Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	OdBi
Power Supply	DC 3.7V by battery
Note: The USB port only u	sed for charging 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		
(S) Allegation of Circles (S) Allegation of	0	2402MHz		
G	1 5 1	2403MHz		
The fill	A STATE OF THE STA			
e San Colonia Con San Colonia	38	2440 MHz		
2400~2483.5MHz	39	2441 MHz		
粮.	40	2442 MHz		
The fill the second of the sec	26 To C			
of Column Co	77	2479 MHz		
	78	2480 MHz		

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#### 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 = ±2.75dB
- 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

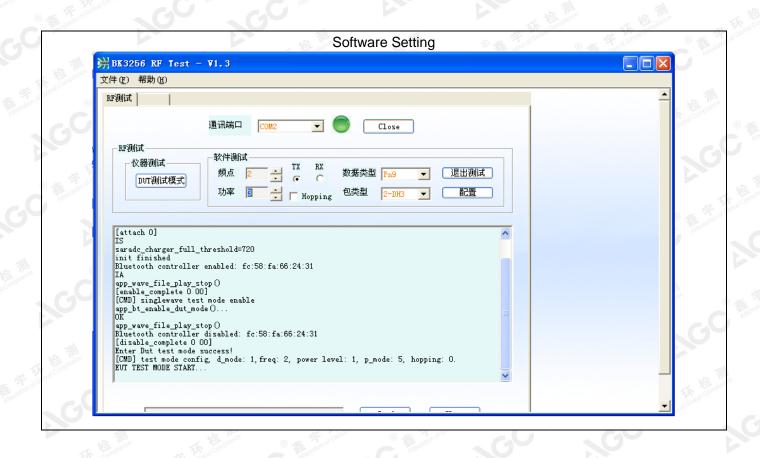
TEST MODE DESCRIPTION
Low channel GFSK
Middle channel GFSK
High channel GFSK
Low channel π /4-DQPSK
Middle channel π /4-DQPSK
High channel π /4-DQPSK
Low channel 8DPSK
Middle channel 8DPSK
High channel 8DPSK
BT Link with charging
BT Link(Hopping mode)

#### 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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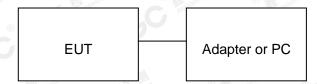


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## 5. SYSTEM TEST CONFIGURATION

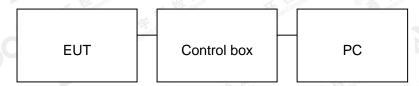
## 5.1. CONFIGURATION OF EUT SYSTEM

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 earphone	Fulun	LC-D02	EUT	
2	Battery	GUOJU	300928	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	BEKEN	N/A	A.E	
5	Adapter	IPRO	NTR-S01	A.E	
6	USB Cable	N/A GO	1m unshielded	A.E	
7	USB Cable	N/A	1m unshielded	A.E	
8	IPOD	APPLE	A1367	A.E	

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

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

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## 6. TEST FACILITY

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

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#### 7. TEST METHOD

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

## 8. TEST EQUIPMENT LIST

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

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
EMI Test Receiver	ROHDE&SCHW ARZ	ESCI	100694	July 02, 2018	July 01, 2019
LISN	R&S	ESH3-Z5	838979/009	Mar.01 2018	Feb. 28, 2019

## TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI 1	10096	Jun.20, 2018	Jun.19, 2019
EXA Signal Analyzer	Aglient	N9010A	MY5347050 4	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	SCHWARZBEC K	BBV 9718	9718-205	Jun.20, 2018	Jun.19, 2019
Antenna	SCHWARZBEC K	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Loop Antenna	A.H.Systems,Inc	SAS-562B	10 TO	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	Coopy gramm	Jun.20, 2018	Jun.19, 2019

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## 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)	吃那
1.705 ~ 30	30	30 (1)	E Sobolico Coloro
30 ~ 88	3	100	40.0
88 ~ 216	3 - 6	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3 The factor of the second	Other:74.0 dB(μV)/m (Average)	(Peak) 54.0 dB(μV)/m

Remark:

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

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#### 9.2. MEASUREMENT PROCEDURE

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

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

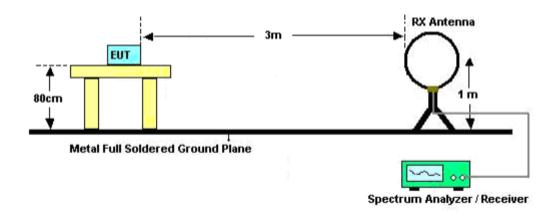
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz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

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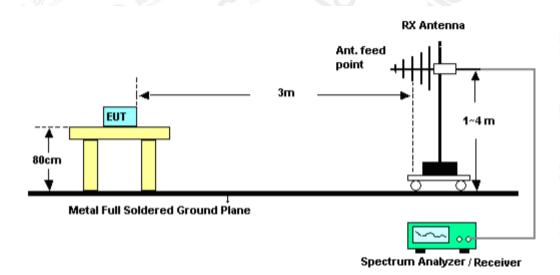


#### 9.3. TEST SETUP

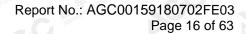
#### RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



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

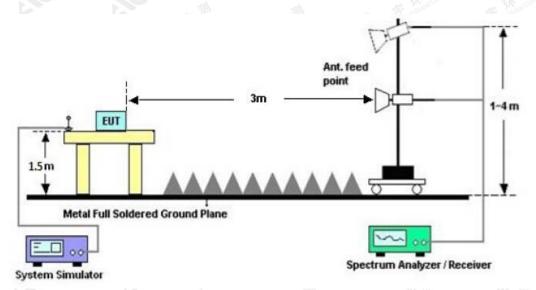


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## RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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#### 9.4. TEST RESULT

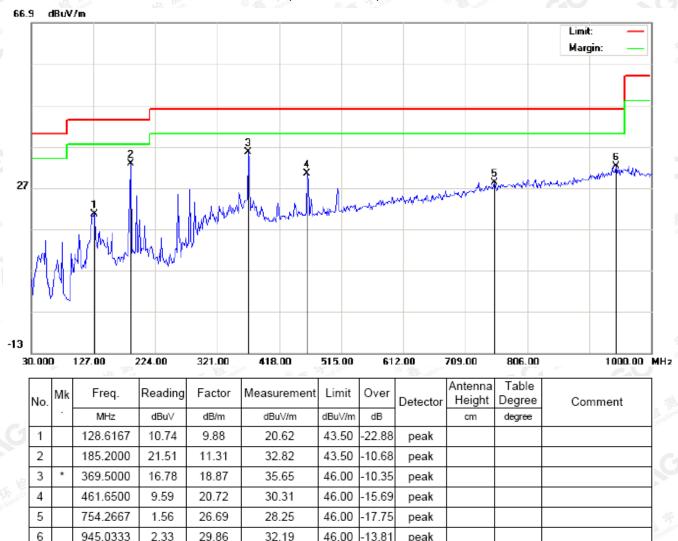
(Worst modulation: GFSK)

#### **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



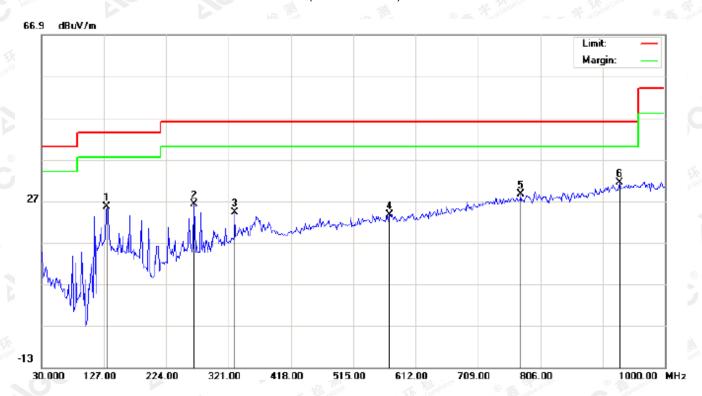
**RESULT: PASS** 

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



No	. M	k 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	13.75	11.80	25.55	43.50	-17.95	peak			
2		267.6500	11.79	14.43	26.22	46.00	-19.78	peak			
3		330.7000	6.82	17.45	24.27	46.00	-21.73	peak			
4		571.5833	1.09	22.59	23.68	46.00	-22.32	peak			
5		775.2833	1.66	26.98	28.64	46.00	-17.36	peak			
6	*	928.8667	2.04	29.41	31.45	46.00	-14.55	peak			

#### **RESULT: PASS**

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

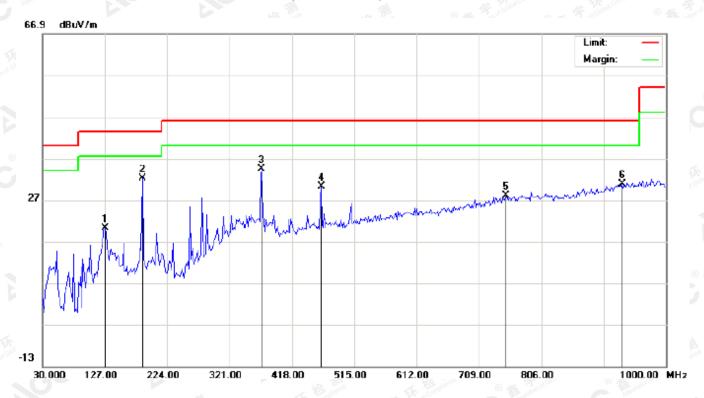
2. The "Factor" value can be calculated automatically by software of measurement system.

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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
8		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
	1		127.0000	11.01	9.13	20.14	43.50	-23.36	peak			
Ī	2	*	185.2000	20.89	11.31	32.20	43.50	-11.30	peak			
	3		371.1167	15.46	18.88	34.34	46.00	-11.66	peak			
	4		463.2667	9.43	20.73	30.16	46.00	-15.84	peak			
	5		751.0333	1.37	26.64	28.01	46.00	-17.99	peak			
	6		932.1000	1.25	29.50	30.75	46.00	-15.25	peak			

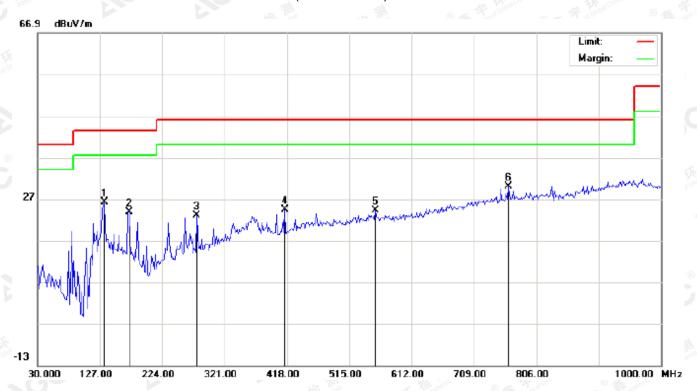
**RESULT: PASS** 

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



N	o. I	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	П		133.4667	13.66	12.48	26.14	43.50	-17.36	peak			
2	2		172.2667	9.29	14.56	23.85	43.50	-19.65	peak			
3	3		277.3500	8.35	14.73	23.08	46.00	-22.92	peak			
4	ı		414.7667	4.95	19.52	24.47	46.00	-21.53	peak			
5	;		555.4167	1.68	22.51	24.19	46.00	-21.81	peak			
6	)	*	762.3500	3.22	26.80	30.02	46.00	-15.98	peak	·		

#### **RESULT: PASS**

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

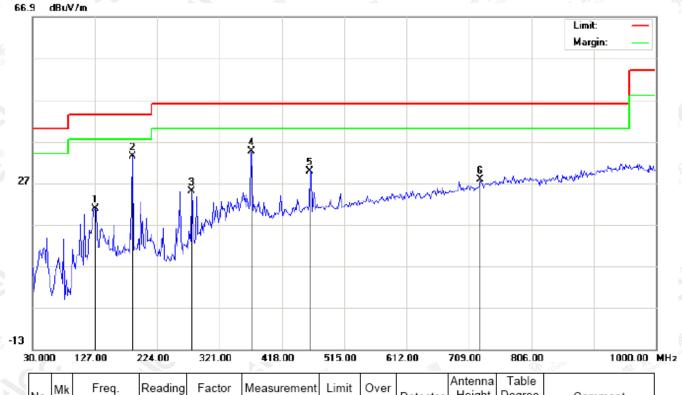
2. The "Factor" value can be calculated automatically by software of measurement system.

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		127.0000	11.67	9.13	20.80	43.50	-22.70	peak			
2	*	185.2000	22.03	11.31	33.34	43.50	-10.16	peak			
3		277.3500	13.53	11.55	25.08	46.00	-20.92	peak			
4		371.1167	15.73	18.88	34.61	46.00	-11.39	peak			
5		461.6500	9.17	20.72	29.89	46.00	-16.11	peak			
6		726.7833	1.78	25.98	27.76	46.00	-18.24	peak			

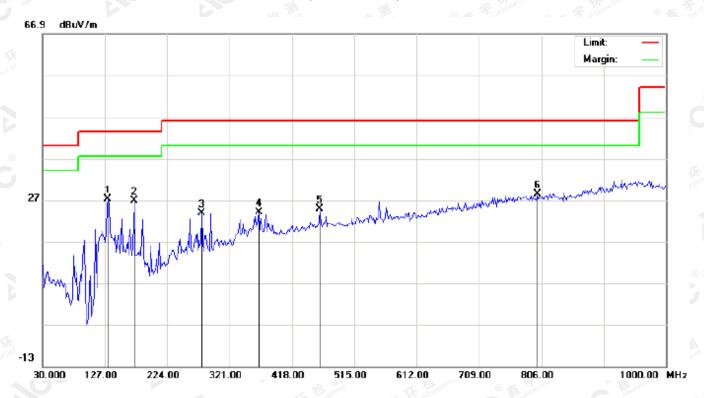
**RESULT: PASS** 

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	131.8500	15.36	11.80	27.16	43.50	-16.34	peak			
2		172.2667	12.16	14.56	26.72	43.50	-16.78	peak			
3		277.3500	9.09	14.73	23.82	46.00	-22.18	peak			
4		366.2667	5.22	18.85	24.07	46.00	-21.93	peak			
5		461.6500	4.14	20.72	24.86	46.00	-21.14	peak			
6		799.5333	1.15	27.31	28.46	46.00	-17.54	peak			

#### **RESULT: PASS**

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

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

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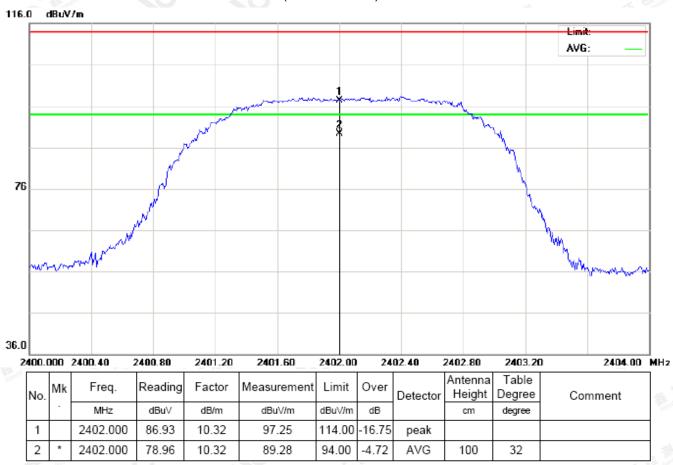
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#### **RADIATED EMISSION ABOVE 1GHz**

(Worst modulation: GFSK)

#### For Fundamental

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



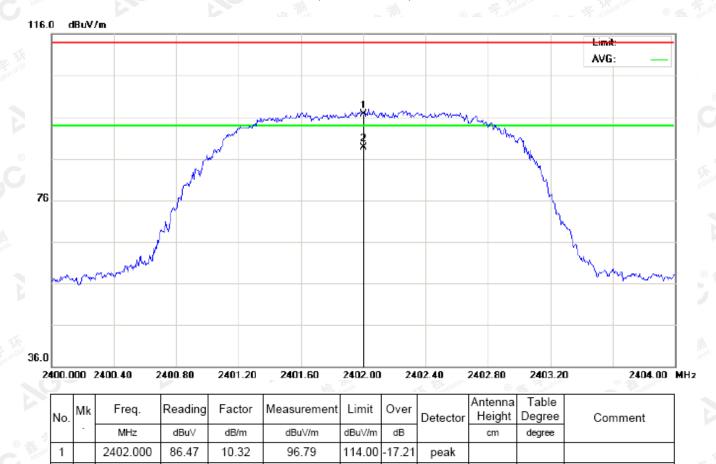
**RESULT: PASS** 

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



94.00

-5.20

AVG

100

253

**RESULT: PASS** 

2402.000

78.48

10.32

88.80

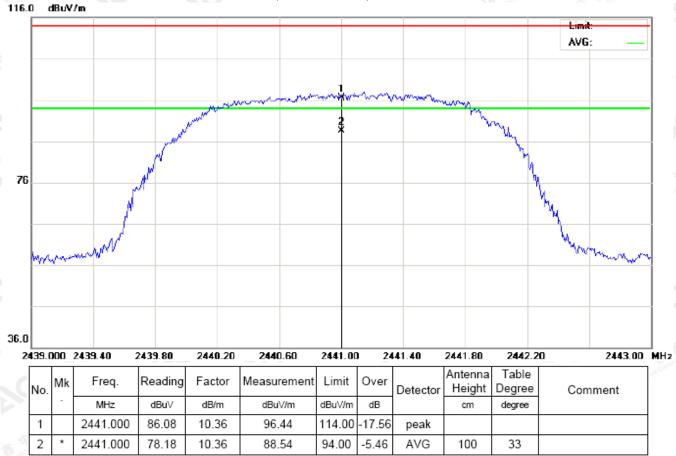
2

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



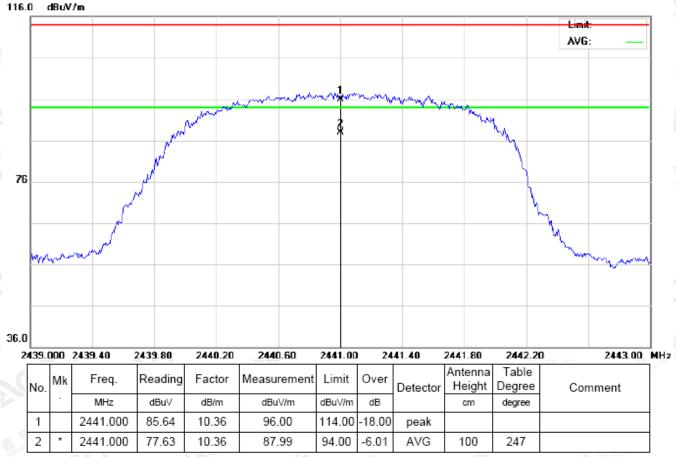
**RESULT: PASS** 

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



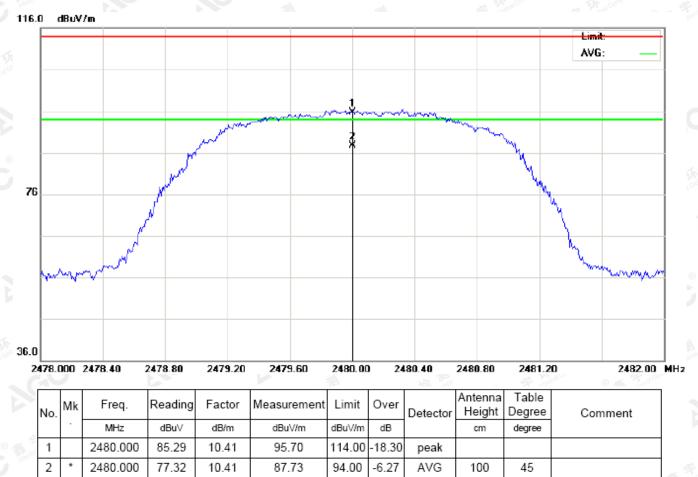
**RESULT: PASS** 

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



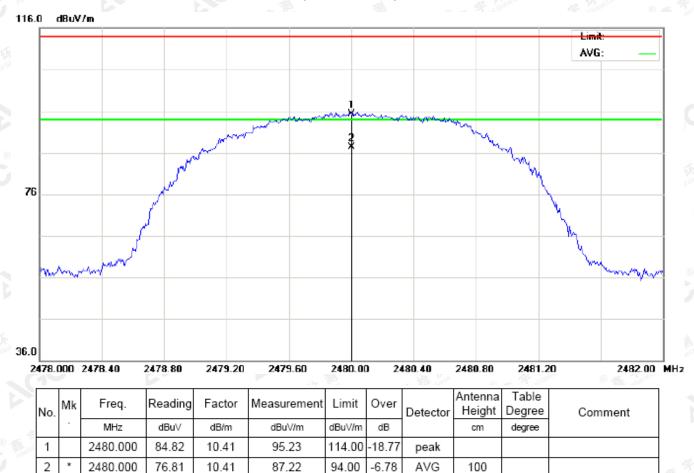
**RESULT: PASS** 

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



#### **RESULT: PASS**

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

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

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## Field strength of the fundamental signal

## 1Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	86.93	10.32	97.25	114	-16.75	Horizontal
2402	86.47	10.32	96.79	114	-17.21	Vertical
2441	86.08	10.36	96.44	114	-17.56	Horizontal
2441	85.64	10.36	96.00	114	-18.00	Vertical
2480	85.29	10.41	95.70	114	-18.30	Horizontal
2480	84.82	10.41	95.23	114	-18.77	Vertical

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.96	10.32	89.28	94	-4.72	Horizontal
2402	78.48	10.32	88.80	94	-5.20	Vertical
2441	78.18	10.36	88.54	94	-5.46	Horizontal
2441	77.63	10.36	87.99	94	-6.01	Vertical
2480	77.32	10.41	87.73	94	-6.27	Horizontal
2480	76.81	10.41	87.22	94	-6.78	Vertical

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## 2Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	86.46	10.32	96.78	114	-17.22	Horizontal
2402	85.97	10.32	96.29	114	-17.71	Vertical
2441	85.77	10.36	96.13	114	-17.87	Horizontal
2441	85.27	10.36	95.63	114	-18.37	Vertical
2480	84.86	10.41	95.27	114	-18.73	Horizontal
2480	84.44	10.41	94.85	114	-19.15	Vertical

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.50	10.32	88.82	94	-5.18	Horizontal
2402	78.01	10.32	88.33	94	-5.67	Vertical
2441	77.66	10.36	88.02	94	-5.98	Horizontal
2441	77.26	10.36	87.62	94	-6.38	Vertical
2480	76.85	10.41	87.26	94	-6.74	Horizontal
2480	76.37	10.41	86.78	94	-7.22	Vertical

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## 3Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	86.13	10.32	96.45	114	-17.55	Horizontal	
2402	85.61	10.32	95.93	114	-18.07	Vertical	
2441	85.28	10.36	95.64	114	-18.36	Horizontal	
2441	84.78	10.36	95.14	114	-18.86	Vertical	
2480	84.53	10.41	94.94	114	-19.06	Horizontal	
2480	84.06	10.41	94.47	114	-19.53	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	78.09	10.32	88.41	94	-5.59	Horizontal	
2402	77.56	10.32	87.88	94	-6.12	Vertical	
2441	77.27	10.36	87.63	94	-6.37	Horizontal	
2441	76.83	10.36	87.19	94	-6.81	Vertical	
2480	76.48	10.41	86.89	94	-7.11	Horizontal	
2480	75.95	10.41	86.36	94	-7.64	Vertical	

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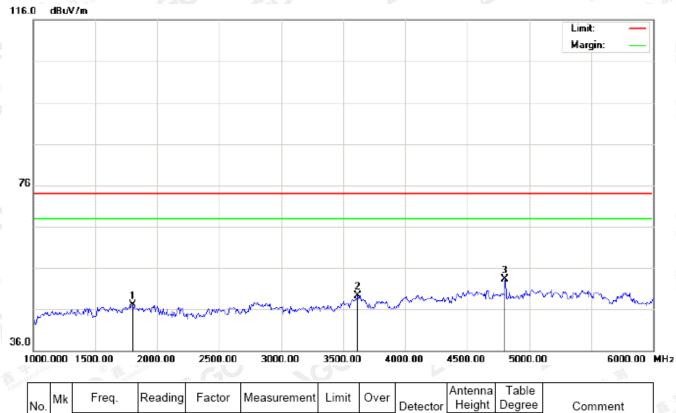


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## (Worst modulation: GFSK)

#### **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		1800.000	39.29	7.78	47.07	74.00	-26.93	peak			
2		3616.667	36.55	12.83	49.38	74.00	-24.62	peak			
3	*	4804.000	45.71	7.69	53.40	74.00	-20.60	peak			

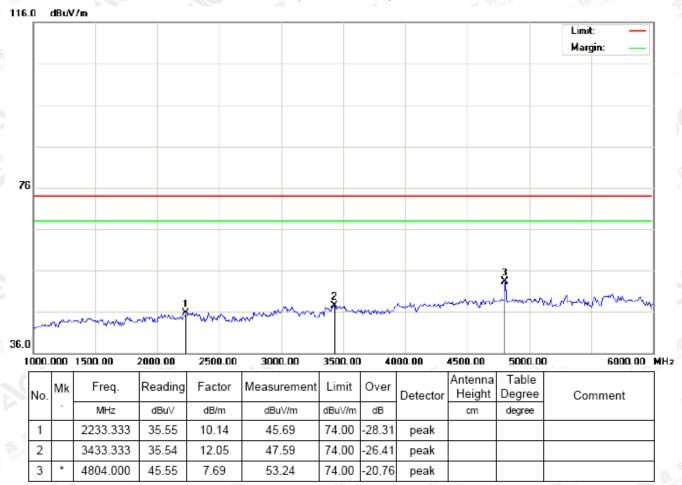
**RESULT: PASS** 

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



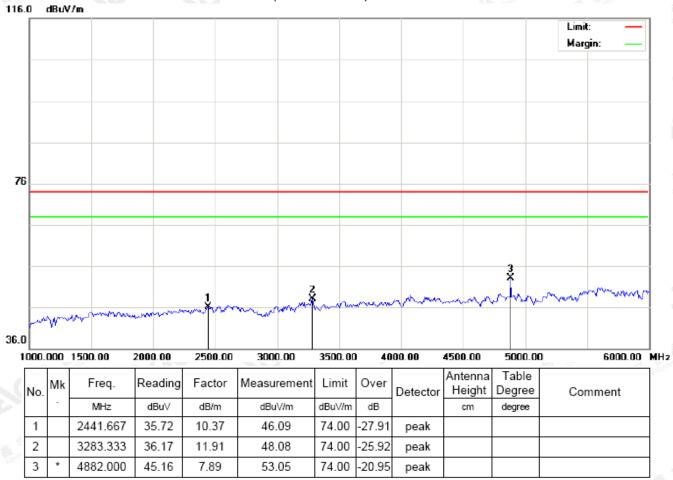
**RESULT: PASS** 

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



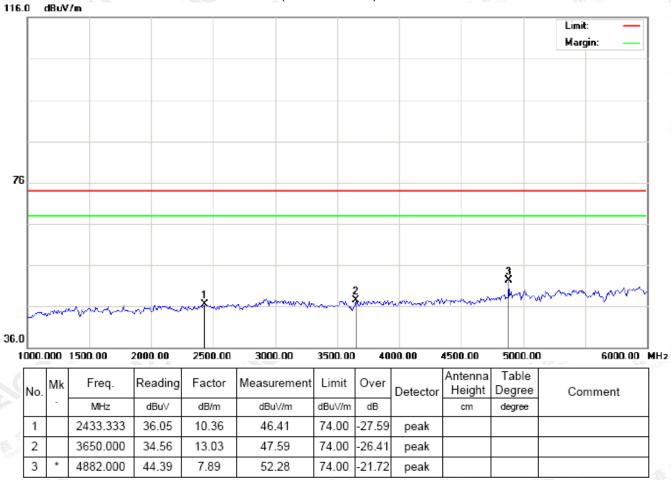
**RESULT: PASS** 

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



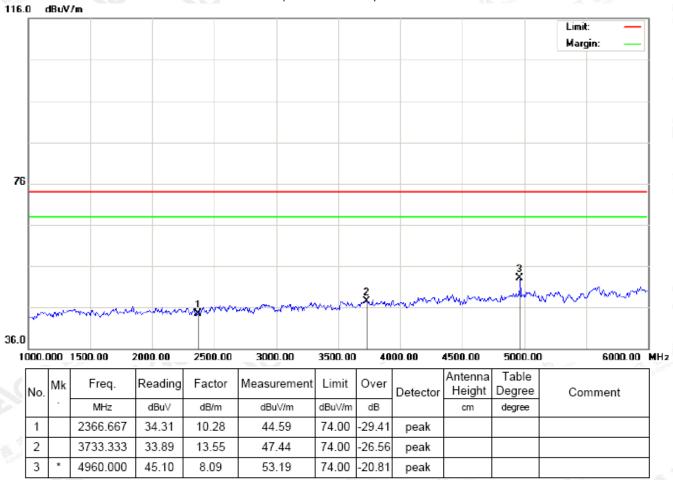
**RESULT: PASS** 

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



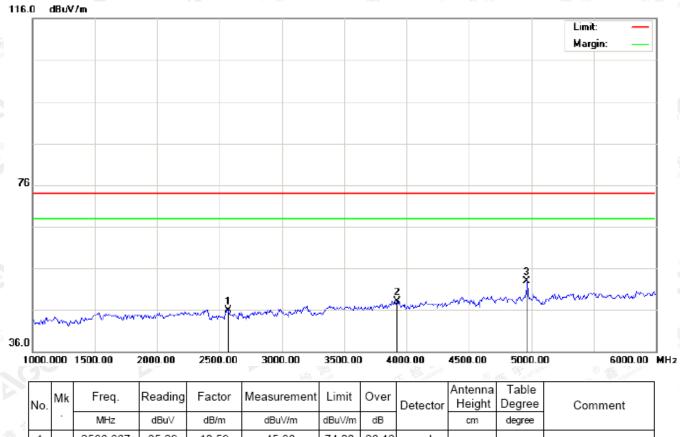
**RESULT: PASS** 

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



No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2566.667	35.29	10.59	45.88	74.00	-28.12	peak			
2		3925.000	33.33	14.73	48.06	74.00	-25.94	peak			
3	*	4960.000	44.91	8.09	53.00	74.00	-21.00	peak			

# **RESULT: PASS**

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

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

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

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## 10. BAND EDGE EMISSION

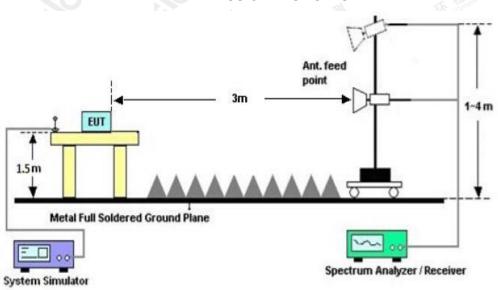
## 10.1. MEASUREMENT PROCEDURE

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

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

### **10.2 TEST SETUP**

# RADIATED EMISSION TEST SETUP



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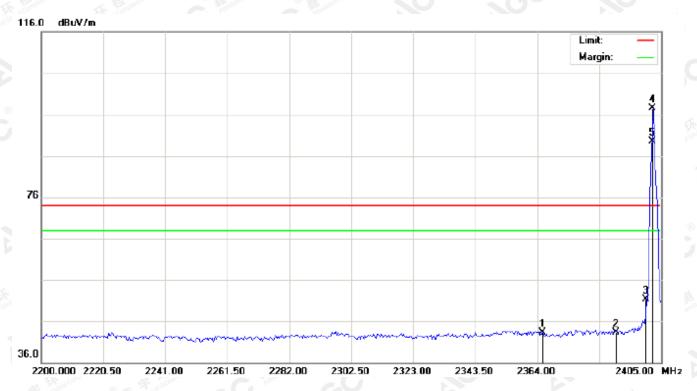


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# **10.3 RADIATED TEST RESULT**

(Worst modulation: GFSK)

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



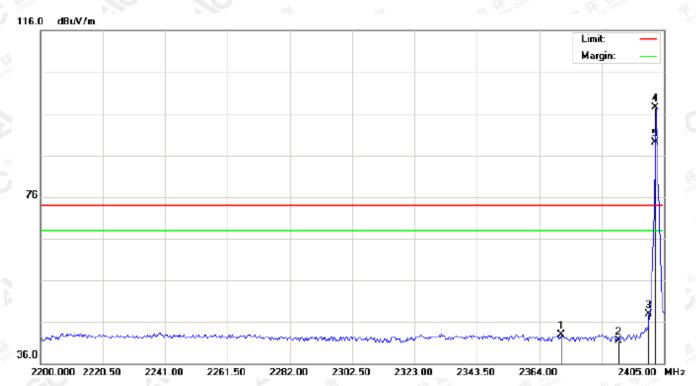
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu√/m	dBu√/m	dB		cm	degree	
1		2365.708	32.92	10.28	43.20	74.00	-30.80	peak			
2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
3		2400.000	40.97	10.32	51.29	74.00	-22.71	peak			
4	*	2402.000	87.22	10.32	97.54	74.00	23.54	peak	·	·	
5	Х	2402.000	79.15	10.32	89.47	74.00	15.47	AVG	100	41	

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# TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



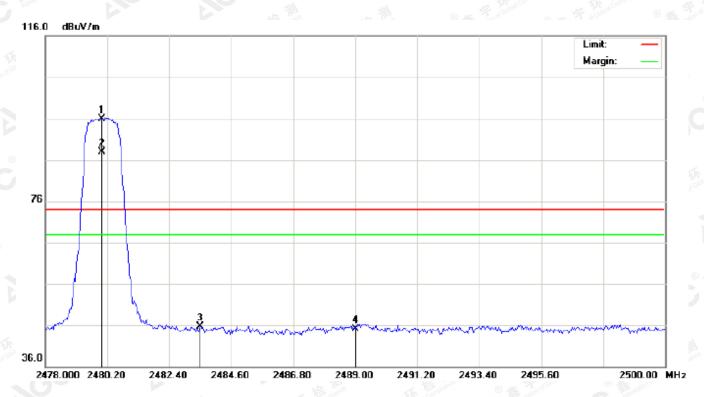
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
ś.	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2371.175	32.58	10.29	42.87	74.00	-31.13	peak			
2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
3		2400.000	37.56	10.32	47.88	74.00	-26.12	peak			
4	*	2402.000	87.09	10.32	97.41	74.00	23.41	peak			
5	Х	2402.000	78.75	10.32	89.07	74.00	15.07	AVG	100		

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# TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



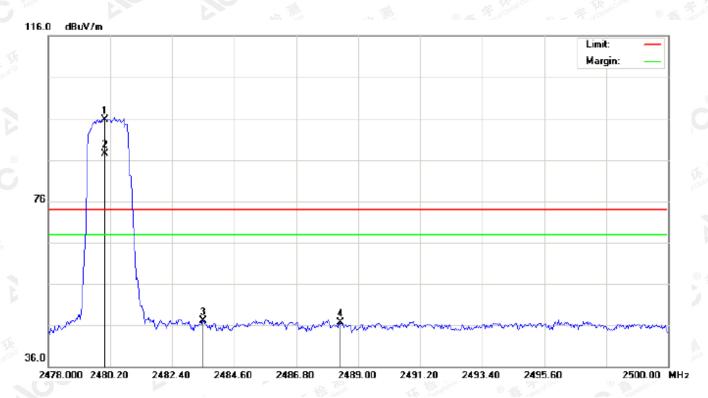
N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
o'	1	*	2480.000	85.55	10.41	95.96	74.00	21.96	peak			
	2	Х	2480.000	77.50	10.41	87.91	74.00	13.91	AVG	100		
	3		2483.500	35.19	10.41	45.60	74.00	-28.40	peak			
	4		2489.000	34.64	10.42	45.06	74.00	-28.94	peak			

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# TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



N	0.	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		*	2480.000	85.32	10.41	95.73	74.00	21.73	peak			
2	2	Х	2480.000	77.08	10.41	87.49	74.00	13.49	AVG	100	249	
3	3		2483.500	36.76	10.41	47.17	74.00	-26.83	peak			
4	ļ.		2488.377	36.21	10.42	46.63	74.00	-27.37	peak			

### **RESULT: PASS**

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

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

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

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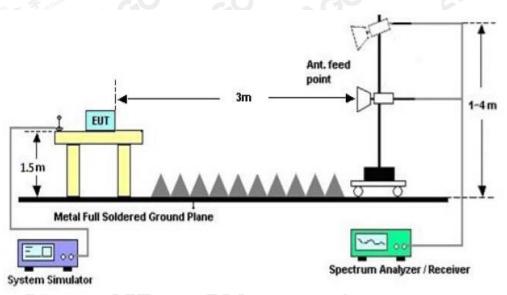
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# 11. 20DB BANDWIDTH

## 11.1. MEASUREMENT PROCEDURE

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

## 11.2. TEST SET-UP



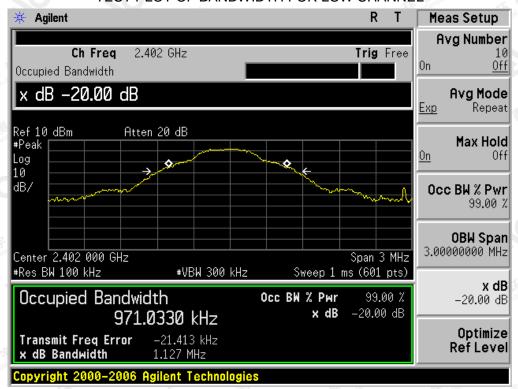
## 11.3. LIMITS AND MEASUREMENT RESULTS

		VD2 " -6	The salls	6101					
BLUET	OOTH 1MBPS LIN	MITS AND MEASU	REMENT RESULT						
		Measurement Result							
Applicable Limits		D							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
The state of the s	Low Channel	0.971	1.127	PASS					
N/A	Middle Channel	0.953	1.095	PASS					
	High Channel	1.195	1.385	PASS					

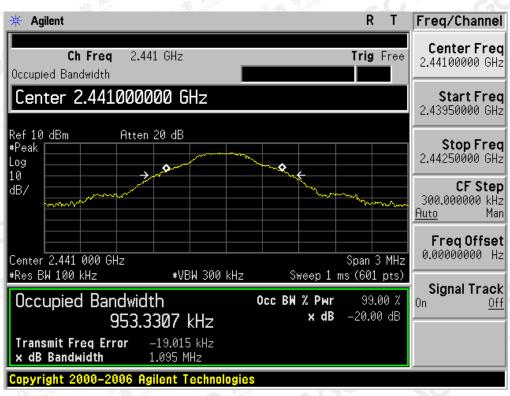
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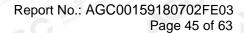
### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

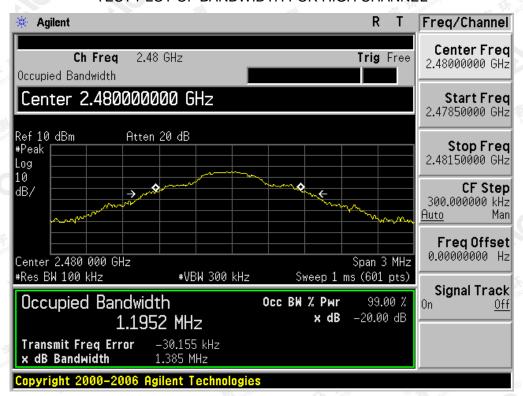


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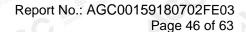




#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



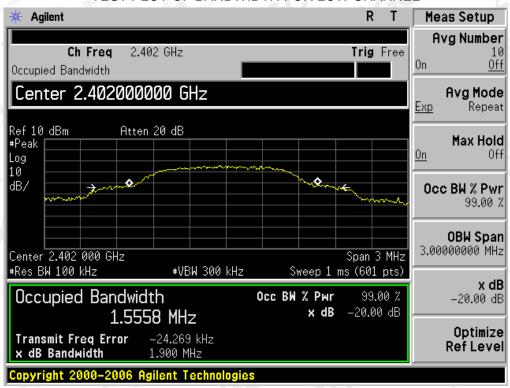
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BLUETO	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT	
		Measure	ement Result	
Applicable Limits		Decult		
		99%OBW (MHz)	-20dB BW(MHz)	Result
下 整 测 不 整 测 1	Low Channel	1.556	1.900	PASS
N/A	Middle Channel	1.506	1.839	PASS
	High Channel	1.499	1.912	PASS

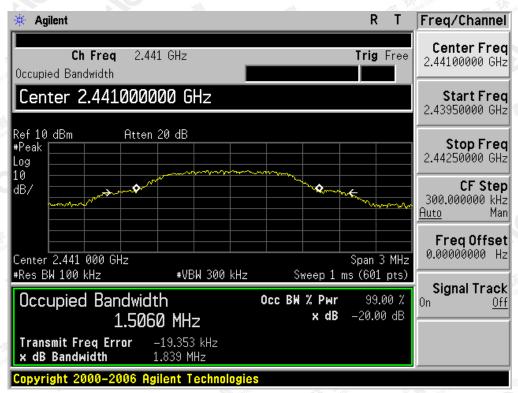
## TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



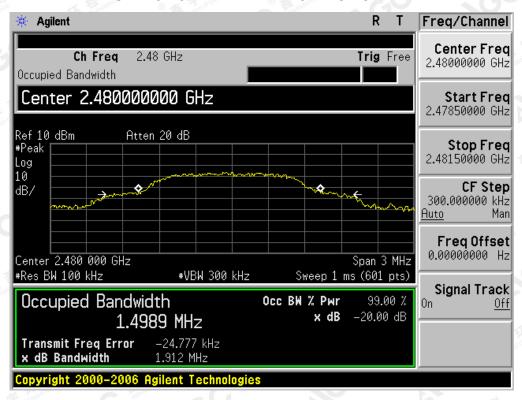
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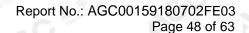
#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



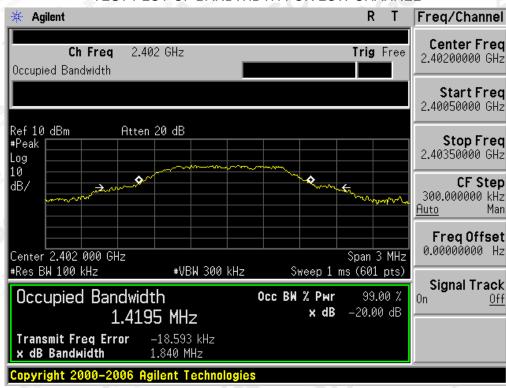
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Alle	- dill			2/A Co							
BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT											
		Measure	ement Result								
Applicable Limits		Doorle									
		99%OBW (MHz)	-20dB BW(MHz)	Result							
TO THE THE PARTY OF THE PARTY O	Low Channel	1.420	1.840	PASS							
N/A	Middle Channel	1.418	1.779	PASS							
	High Channel	1.445	1.879	PASS							

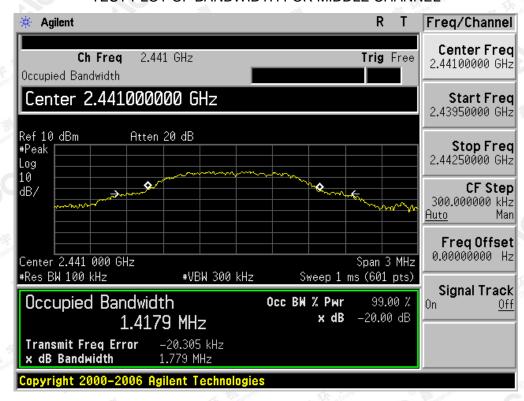
## TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



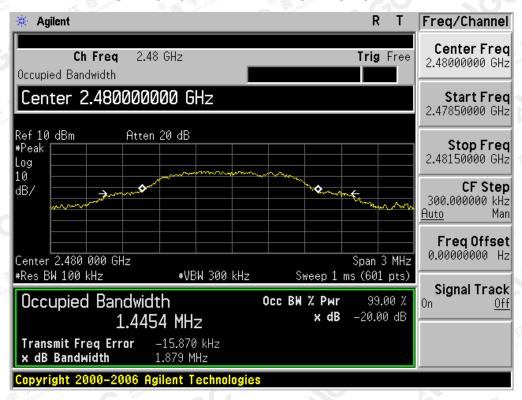
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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# 12. FCC LINE CONDUCTED EMISSION TEST

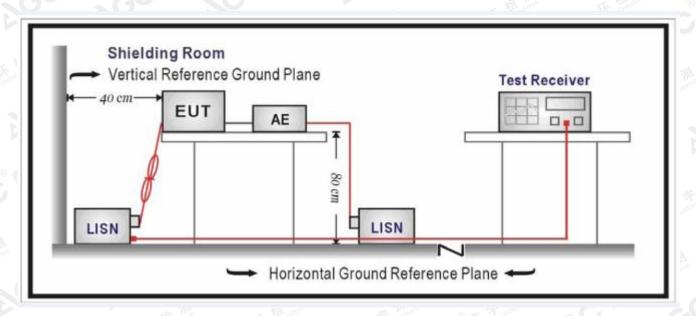
# 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage							
Frequency	Q.P.( dBuV)	Average( dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	8 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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# 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.

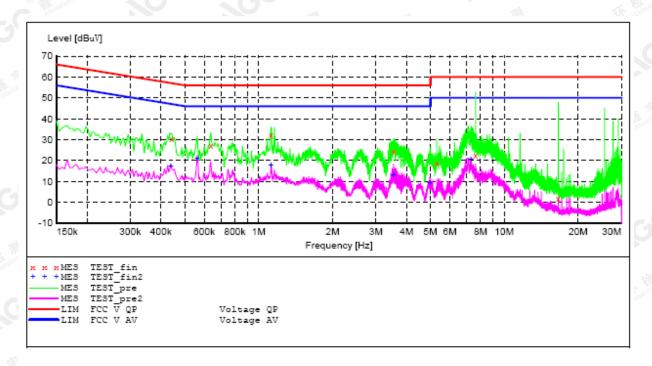
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## 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

## By adapter(worst case)

## Line Conducted Emission Test Line 1-L



### MEASUREMENT RESULT: "TEST fin"

2018/7/23 Frequenc MH	-	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.44200	0 30.30	10.0	57	26.7	QP	L1	FLO
0.63800	0 27.10	9.9	56	28.9	QP	L1	FLO
1.12200	0 32.30	10.1	56	23.7	QP	L1	FLO
3.54200	0 24.20	10.0	56	31.8	QP	L1	FLO
5.30600	0 18.60	10.2	60	41.4	QP	L1	FLO
7.63400	0 22.40	10.0	60	37.6	QP	L1	FLO
16.58600	0 1.90	9.5	60	58.1	QP	L1	FLO

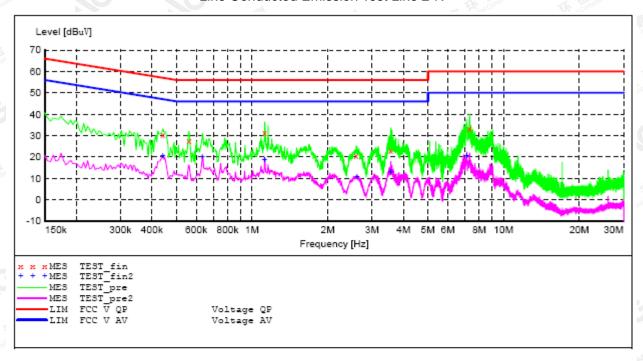
#### MEASUREMENT RESULT: "TEST fin2"

2018/7/23 11	:54						
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.438000	17.30	10.0	47	29.8	AV	L1	FLO
0.562000	21.00	9.9	46	25.0	AV	L1	FLO
1.122000	17.90	10.1	46	28.1	AV	L1	FLO
3.538000	13.10	10.0	46	32.9	AV	L1	FLO
4.966000	9.60	10.3	46	36.4	AV	L1	FLO
7.314000	20.50	9.9	50	29.5	AV	L1	FLO

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## Line Conducted Emission Test Line 2-N



### MEASUREMENT RESULT: "TEST fin"

$\circ \circ \circ \circ$	10.100	2.2 2.0
2111 R	/7/23	11:42

2018/7/23 11:	42						
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.442000	30.60	10.0	57	26.4	QP	N	FLO
0.562000	27.60	9.9	56	28.4	QP	N	FLO
1.122000	31.40	10.1	56	24.6	QP	N	FLO
2.594000	20.70	9.9	56	35.3	QP	N	FLO
3.558000	22.80	10.0	56	33.2	QP	N	FLO
7.314000	33.40	9.9	60	26.6	QP	N	FLO

# MEASUREMENT RESULT: "TEST fin2"

2018/7/23 11:42

2018/7/23 11:42								
	Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
	0.442000	20.40	10.0	47	26.6	AV	N	FLO
	0.634000	20.00	9.9	46	26.0	AV	N	FLO
	1.122000	18.80	10.1	46	27.2	AV	N	FLO
	2.614000	10.90	9.9	46	35.1	AV	N	FLO
	3.558000	12.90	10.0	46	33.1	AV	N	FLO
	7.130000	20.50	9.8	50	29.5	AV	N	FLO

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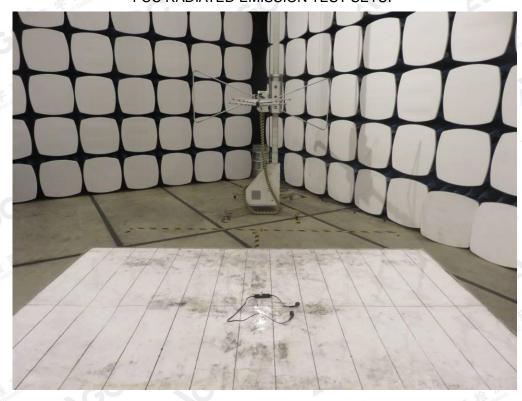


# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



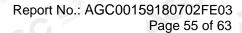
FCC RADIATED EMISSION TEST SETUP



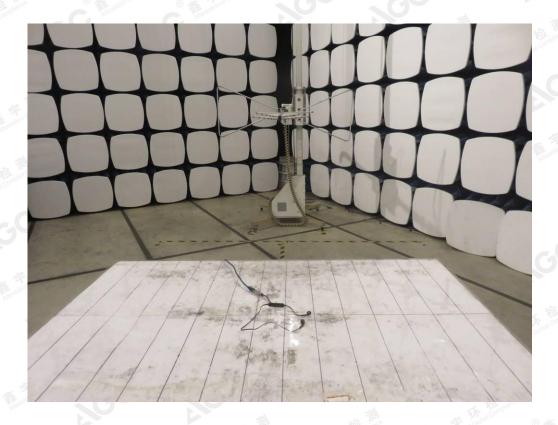
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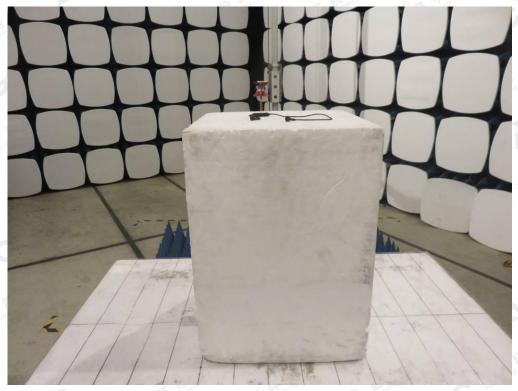
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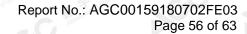




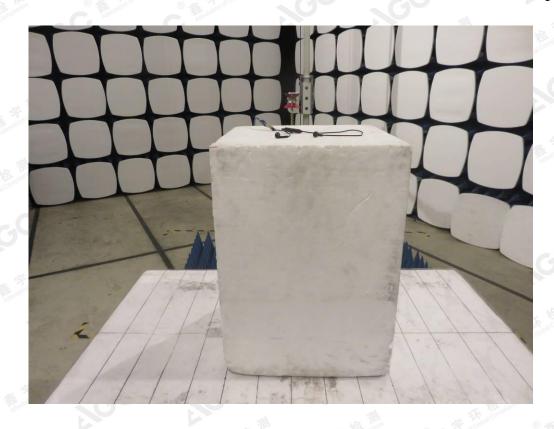




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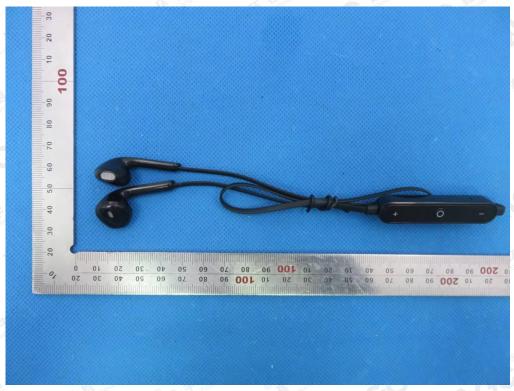


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# **APPENDIX B: PHOTOGRAPHS OF EUT**

TOP VIEW OF EUT



**BOTTOM VIEW OF EUT** 



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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)



**OPEN VIEW OF EUT** 



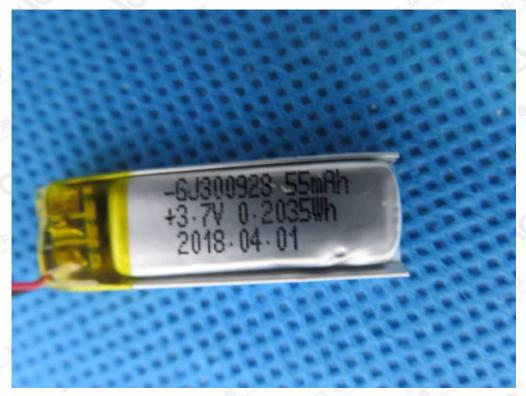
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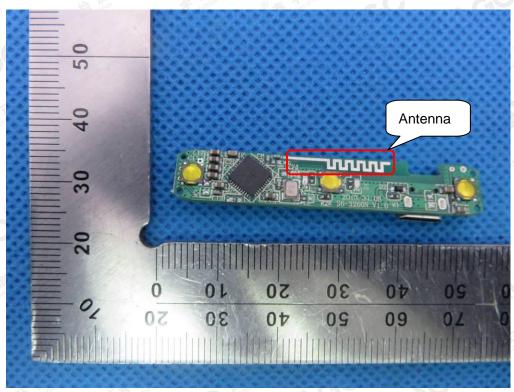
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## VIEW OF BATTERY



**INTERNAL VIEW OF EUT-1** 



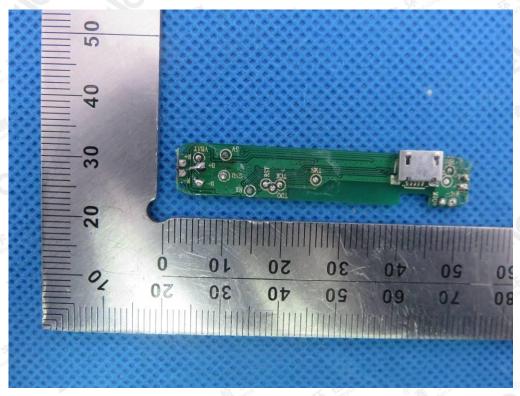
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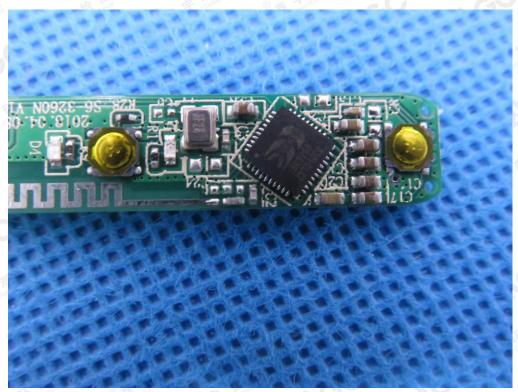
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# **INTERNAL VIEW OF EUT-2**



**INTERNAL VIEW OF EUT-3** 



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# VIEW OF ADAPTER (AE)



The adapter was supplied by AGC

--END OF REPORT-

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