

# FCC Test Report

# Report No.: AGC02101180102FE03

FCC ID	: 2AGPMHJ-580CY
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	HongJia electronic bluetooth BLE4.2 ultra-low power module
BRAND NAME	: HongJia
MODEL NAME	HJ-580CY, HJ-580XP, HJ-580X, HJ-580B, HJ-580T, HJ-580LA, HJ-580
CLIENT	: Tangshan HongJia electronic technology co., LTD.
DATE OF ISSUE	: Feb. 05, 2018
STANDARD(S) TEST PROCEDURE(S)	: FCC Part 15 Subpart C Section 15.249
REPORT VERSION	: V1.0

# Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Feb. 05, 2018	Valid	Initial release

#### **Report Revise Record**

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# **1. VERIFICATION OF CONFORMITY**

Tangshan HongJia electronic technology co., LTD.	
352 No. 2 # building power springs in Qianxi County, Tangshan City, Hebei Province	
Tangshan HongJia electronic technology co., LTD.	
352 No. 2 # building power springs in Qianxi County, Tangshan City, Hebei Province	
HongJia electronic bluetooth BLE4.2 ultra-low power module	
HongJia	
HJ-580CY	
HJ-580XP, HJ-580X, HJ-580B, HJ-580T, HJ-580LA, HJ-580	
All the same except for the model name	
Jan. 25, 2018 to Jan. 31, 2018	
None O The second	
Normal	
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.

Jonhan Wand

Tested By

Jonhen Wang(Wang Yonghuan) Jan. 31, 2018

Reviewed By

Forvesto en

Forrest Lei(Lei Yonggang)

Feb. 05, 2018

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#### 2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
RF Output Power	-3.67dBm(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	40 for BLE
Hardware Version	V2.0
Software Version	V2.1
Antenna Designation	PCB Antenna
Antenna Gain	2dBi
Power Supply	DC 3V

#### 2.2. TABLE OF CARRIER FREQUENCYS

**BLE Channel List** 

Frequency Band	Channel Number	Frequency	
Research of Contract of Stress of Contract	0	2402MHz	
		2404MHz	
2400~2483.5MHz	The Company of the second contact		
	38	2478 MHz	
	39	2480 MHz	

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#### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y  $\pm$ U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission,  $Uc = \pm 3.2 dB$ 

- 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
8	England Globa C	Low channel GFSK
SO	2	Middle channel GFSK
	3	High channel GFSK
HE THE	4 the man	BT Link with charging
Sobal Conne	5 and Cob	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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No. Contraction of the second s	are Setting	allon of Giu		X
, SSCOM V5.13.1 串口/网络数据调试器,作者:大虾丁丁,26180586 19.	@qq.com. QQ群: 52502449(最新版本) PCB打样那家强?			~~
	多条字符串发送 stm32/GD32 ISP   STC	/TAP15 TSP		
4:09:06.486]发→◇01 50 40 02 00 00 □				
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		4无注释	0 100	-
	▼ 01 50 40 02 13 00		0 100	0
		6无注释	0 100	0
		7无注释	0 100	ō
	✓ 01 50 40 02 27 00	2480MHZ测试发送	0 100	0
		9无注释	0 100	0
		10无注释	0 100	0
		11无注释	0 100	0
		12无注释	0 100	
		13无注释	0 100	-
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[口号 COM62	□ 接收数据到文件 □ HEX发送 □ 定时			
	超时时间:20 ms第1字节至末尾、			1×11
	距初初间:120 ms 弗 ·子卫王 末尾、	NH1X32 NORE		
				^
了更好地发展SSCOM软件 您注册嘉立创IF结尾客户				-
升级到新版本SSCOM5.13.1】 嘉立创SMT贴片工程费50元,每焊	盘1分钱!▲Wi-Fi Gprs GPS Lora 射频模	组,在找性价比最高的	约?	
ww.daxia.com S:6 R:0 COM62 已打开 1	15200bps,8,1,None,None			

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

Configure 1: (Normal hopping)



PC or Adapter

#### Configure 2: (Control continuous TX)

			る で		JobalCo
EUT	France .	Control box	0,0,	PC	

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

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
S.O.C	HongJia electronic bluetooth BLE4.2 ultra-low power module	HongJia	HJ-580CY	EUT
2	Mobile phone	Vivo	X5	A.E
3	Control box	DOFLY	N/A	A.E
4	End Product	VivaCheck	105B000000E	A.E
5	Adapter	IPRO	NTR-S01	A.E
6	USB Cable	N/A	1m unshielded	A.E

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

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	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	Equipment Manufacturer		S/N	Cal. Date	Cal. Due	
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018	
LISN	LISN R&S		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	<b>C</b> <sup>M</sup>	Mar. 01, 2016	Feb. 28, 2018

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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 6	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)	
0.490 ~ 1.705	30	24000/F(kHz)	E
1.705 ~ 30	30	30	E The constant
30 ~ 88	3	100	40.0
88 ~ 216	3 _ C	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3. There are a construction of the constructio	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

- 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)
- 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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	Spectrum Parameter	Setting				
al Comt	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP				
C Pres	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP				
	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP				
The second contraction	Start ~Stop Frequency	1GHz~26.5GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 1.5MHz/ VBW 10Hz for Average				
	Receiver Parameter	Setting				
8 <i>1</i>	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP				
.C ***	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP				
	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP				

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

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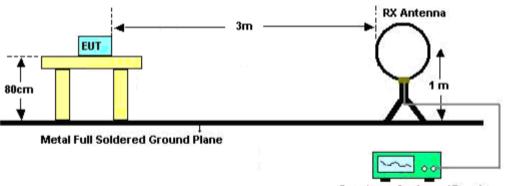


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#### 9.3. TEST SETUP

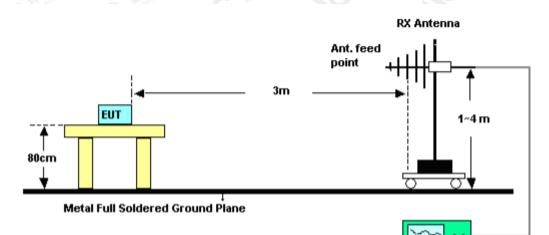
RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



Spectrum Analyzer / Receiver

Spectrum Analyzer / Receiver

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

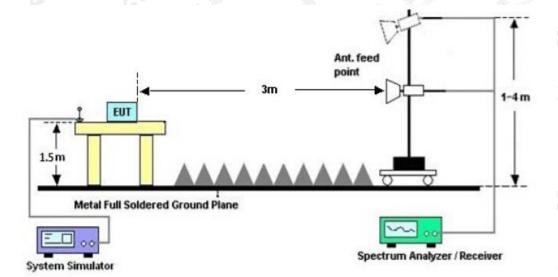


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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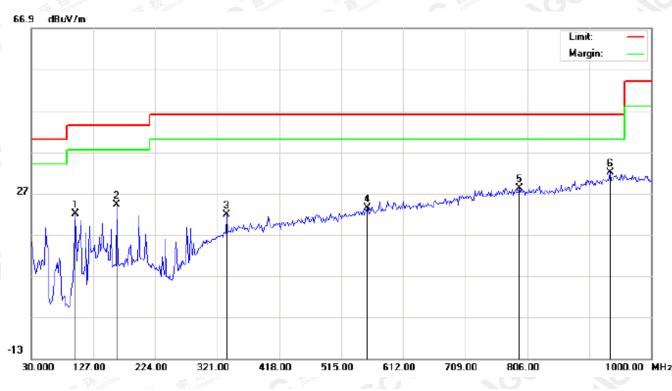
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# 9.4. TEST RESULT FOR BLE

#### **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

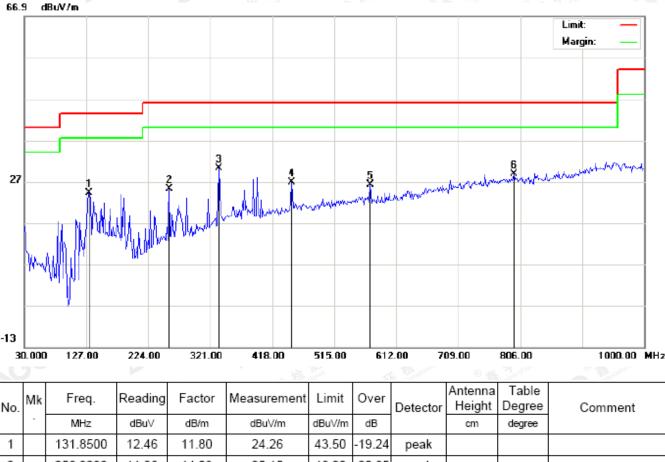


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
1	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		99.5167	12.09	10.00	22.09	43.50	-21.41	peak			
2		164.1833	13.77	10.48	24.25	43.50	-19.25	peak			
3		335.5500	4.03	17.78	21.81	46.00	-24.19	peak			
4		555.4167	0.83	22.62	23.45	46.00	-22.55	peak			
5		793.0667	1.01	27.22	28.23	46.00	-17.77	peak			
6	*	935.3333	2.51	29.59	32.10	46.00	-13.90	peak			

**RESULT: PASS** 

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

#### No. 2 256.3333 11.06 14.09 25.15 46.00 -20.85 peak 3 \* 333.9333 12.57 17.67 30.24 46.00 -15.76 peak 448.7167 20.55 -19.27 4 6.18 26.73 46.00 peak 5 3.71 22.59 26.30 571.5833 46.00 -19.70 peak 796.3000 28.72 6 1.45 27.27 46.00 -17.28 peak

### **RESULT: PASS**

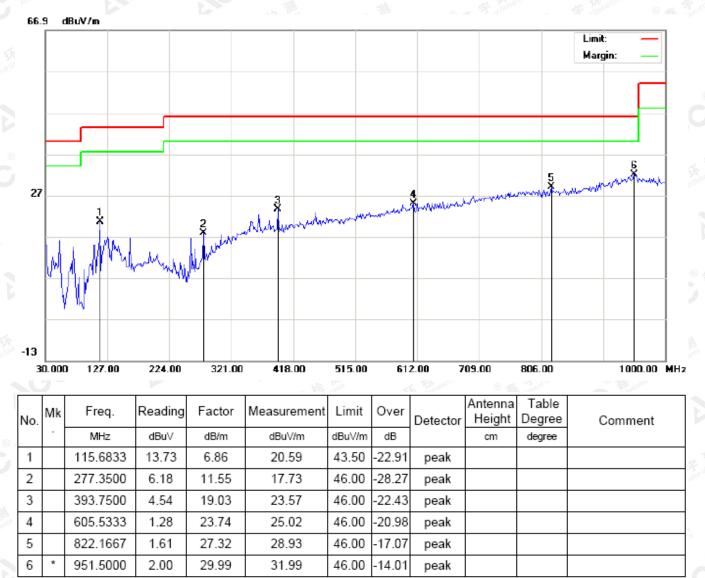
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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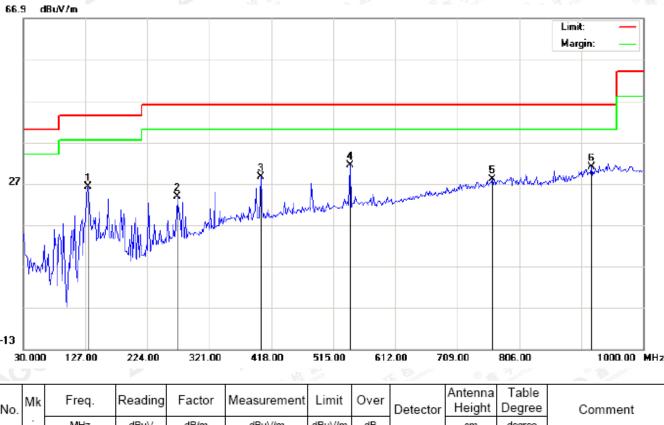
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

**RESULT: PASS** 

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		131.8500	14.47	11.80	26.27	43.50	-17.23	peak			
2		270.8833	9.29	14.53	23.82	46.00	-22.18	peak			
3		401.8333	9.39	19.13	28.52	46.00	-17.48	peak			
4	*	540.8667	9.14	22.23	31.37	46.00	-14.63	peak			
5		763.9667	1.25	26.82	28.07	46.00	-17.93	peak			
6		919.1667	1.85	29.14	30.99	46.00	-15.01	peak			

## **RESULT: PASS**

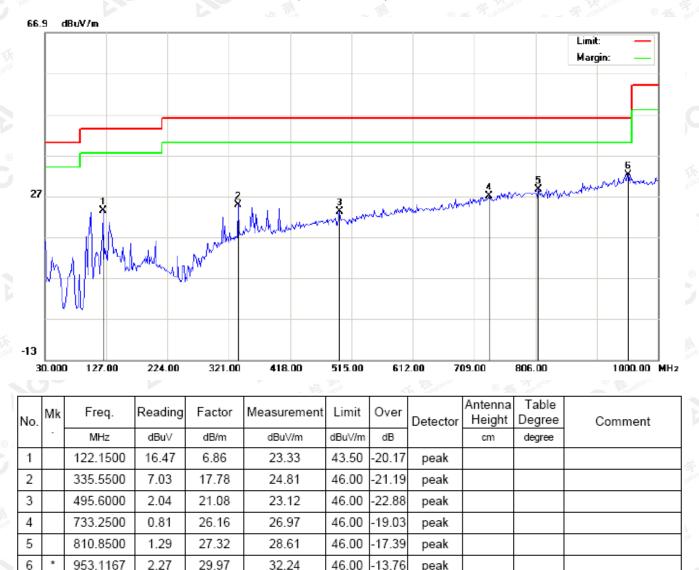
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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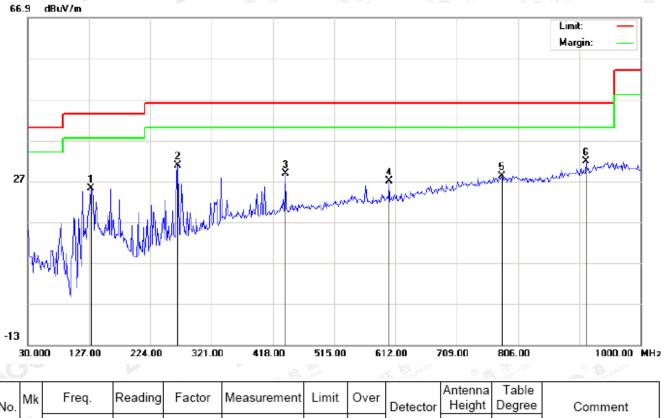
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

**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
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		130.2333	14.12	11.13	25.25	43.50	-18.25	peak			
2		267.6500	16.44	14.43	30.87	46.00	-15.13	peak			
3		437.4000	8.60	20.21	28.81	46.00	-17.19	peak			
4		602.3000	4.22	22.78	27.00	46.00	-19.00	peak			
5		780.1333	1.07	27.05	28.12	46.00	-17.88	peak			
6	*	914.3167	2.88	29.01	31.89	46.00	-14.11	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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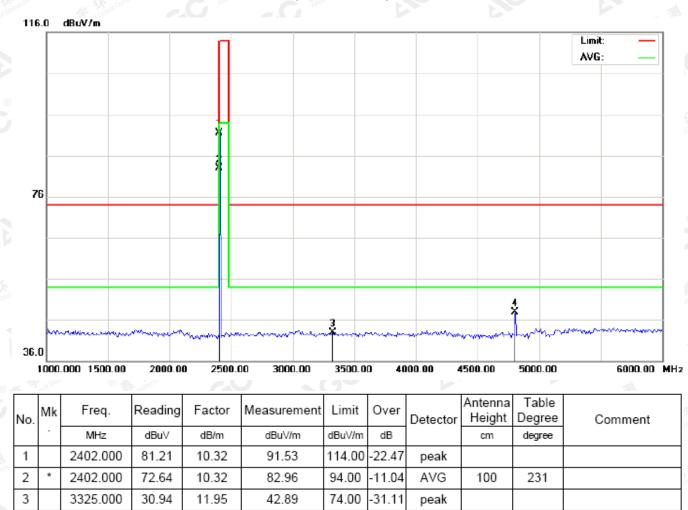


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#### **RADIATED EMISSION ABOVE 1GHz**

FOR BLE

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



74.00

-26.07

peak

**RESULT: PASS** 

4804.000

4

40.24

7.69

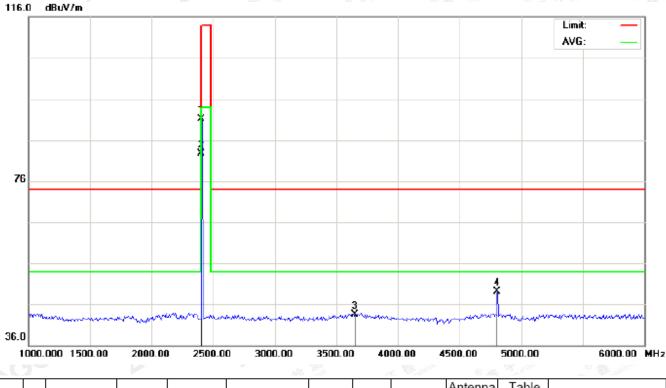
47.93

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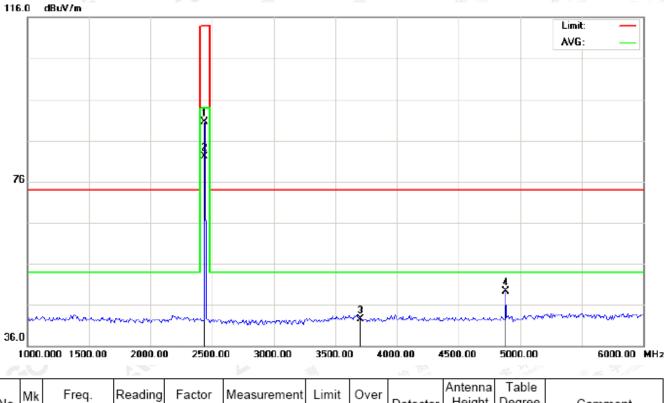
#### RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	80.82	10.32	91.14	114.00	-22.86	peak			
2	*	2402.000	72.29	10.32	82.61	94.00	-11.39	AVG	100	15	
3		3650.000	30.42	13.03	43.45	74.00	-30.55	peak			
4		4804.000	41.38	7.69	49.07	74.00	-24.93	peak			

**RESULT: PASS** 

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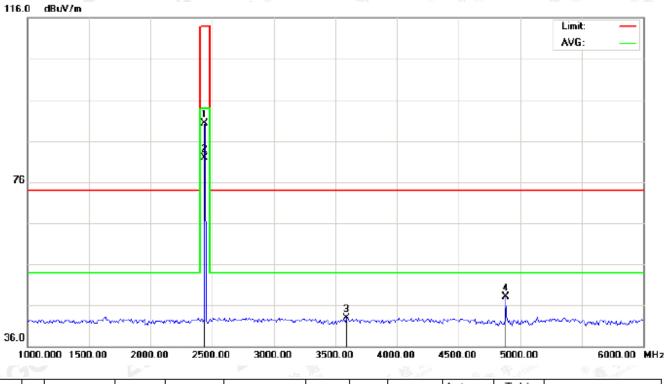
#### RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

No	, м	lk Fi	req.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		· N	ИНz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	Τ	244	0.000	80.24	10.36	90.60	114.00	-23.40	peak			
2	8	244	0.000	71.77	10.36	82.13	94.00	-11.87	AVG	100	237	
3	Τ	370	0.000	29.21	13.34	42.55	74.00	-31.45	peak			
4		488	0.000	41.38	7.89	49.27	74.00	-24.73	peak			

**RESULT: PASS** 

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
1		2440.000	79.99	10.36	90.35	114.00	-23.65	peak			
2	*	2440.000	71.46	10.36	81.82	94.00	-12.18	AVG	100	11	
3		3591.667	30.21	12.67	42.88	74.00	-31.12	peak			
4		4880.000	40.31	7.89	48.20	74.00	-25.80	peak			

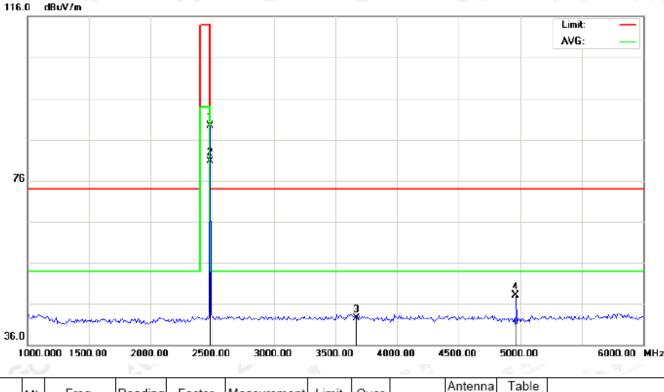
**RESULT: PASS** 

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

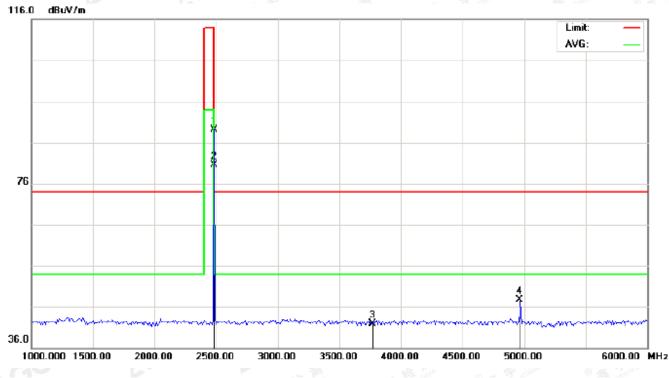
N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∨/m	dB		cm	degree	
	1		2480.000	78.97	10.41	89.38	114.00	-24.62	peak			
	2	*	2480.000	70.34	10.41	80.75	94.00	-13.25	AVG	100	229	
	3		3666.667	29.36	13.14	42.50	74.00	-31.50	peak			
	4		4960.000	40.01	8.09	48.10	74.00	-25.90	peak			

**RESULT: PASS** 

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBu\//m	dBu∨/m	dB		cm	degree	
1		2480.000	78.69	10.41	89.10	114.00	-24.90	peak			
2	*	2480.000	70.00	10.41	80.41	94.00	-13.59	AVG	100	9	
3		3766.667	28.18	13.75	41.93	74.00	-32.07	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.

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Field strength of the fundamental signal

#### 1Mbps Result:

Peak value

Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
81.21	10.32	91.53	114	-22.47	Horizontal	
80.82	10.32	91.14	114	-22.86	Vertical	
80.24	10.36	90.60	114 🐋	-23.40	Horizontal	
79.99	10.36	90.35	114	-23.65	Vertical	
78.97	10.41	89.38	114	-24.62	Horizontal	
78.69	10.41	89.10	114	-24.90	Vertical	
	Level (dBuv) 81.21 80.82 80.24 79.99 78.97	LevelFactor(dBuv)(dB/m)81.2110.3280.8210.3280.2410.3679.9910.3678.9710.41	LevelFactorMeasurement(dBuv)(dB/m)(dBuv/m)81.2110.3291.5380.8210.3291.1480.2410.3690.6079.9910.3690.3578.9710.4189.38	LevelFactorMeasurementLimit(dBuv)(dB/m)(dBuv/m)(dBuv/m)81.2110.3291.5311480.8210.3291.1411480.2410.3690.6011479.9910.3690.3511478.9710.4189.38114	LevelFactorMeasurementLimitOver(dBuv)(dB/m)(dBuv/m)(dBuv/m)(dB)81.2110.3291.53114-22.4780.8210.3291.14114-22.8680.2410.3690.60114-23.4079.9910.3690.35114-23.6578.9710.4189.38114-24.62	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	72.64	10.32	82.96	94 💿	-11.04	Horizontal	
2402	72.29	10.32	82.61	94	-11.39	Vertical	
2440	71.77	10.36	82.13	94	-11.87	Horizontal	
2440	71.46	10.36	81.82	94	-12.18	Vertical	
2480	70.34	10.41	80.75	94	-13.25	Horizontal	
2480	70.00	10.41	80.41	94	-13.59	Vertical	

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#### **10. BAND EDGE EMISSION**

#### 10.1. MEASUREMENT PROCEDURE

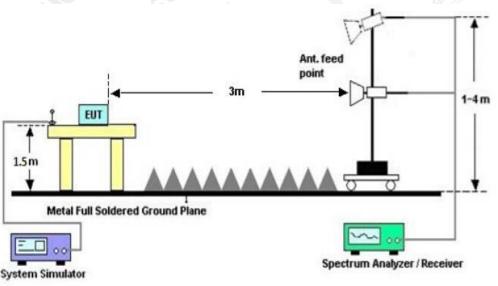
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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	y(MHz)	Stop frequency(MHz)					
2200	电型 环境	nce C Stratur	2405	SC -			
2478	C Austano of Gou	GO	2500				
Aller Aller							

#### 10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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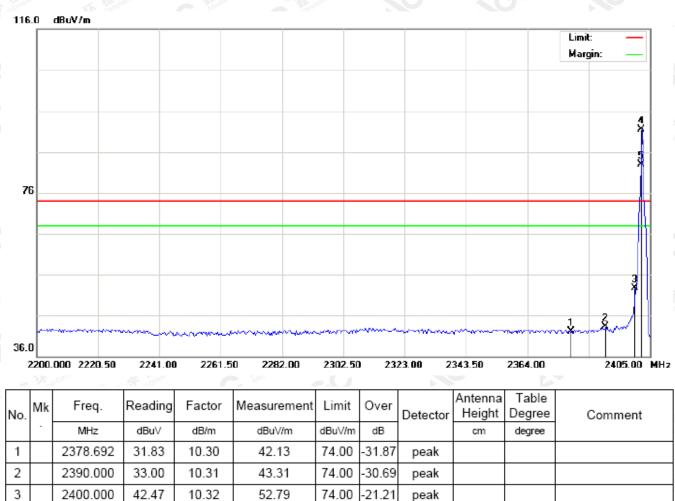
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#### **10.3 RADIATED TEST RESULT**

#### FOR BLE

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



74.00

74.00

17.54

8.98

peak

AVG

100

235

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2402.000

2402.000

4

5 | X

81.22

72.66

10.32

10.32

91.54

82.98



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74.00

74.00

74.00

74.00

-31.98

-27.62

17.41

8.64

peak

peak

peak

AVG

100

16

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

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2

3

4

5 X

2390.000

2400.000

2402.000

2402.000

31.71

36.06

81.09

72.32

10.31

10.32

10.32

10.32

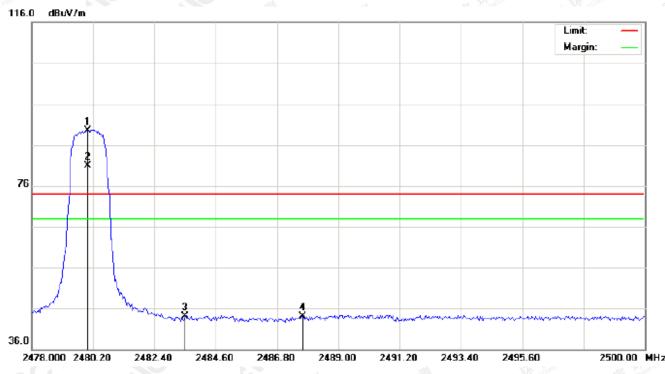
42.02

46.38

91.41

82.64

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

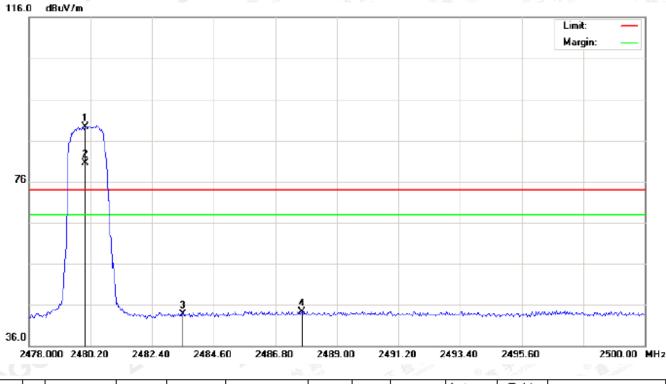
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	79.05	10.41	89.46	74.00	15.46	peak			
2	Х	2480.000	70.41	10.41	80.82	74.00	6.82	AVG	100	233	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2487.716	33.68	10.42	44.10	74.00	-29.90	peak			

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

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
	1	*	2480.000	78.82	10.41	89.23	74.00	15.23	peak			
	2	Х	2480.000	70.06	10.41	80.47	74.00	6.47	AVG	100	13	
	3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
ŝ	4		2487.753	33.95	10.42	44.37	74.00	-29.63	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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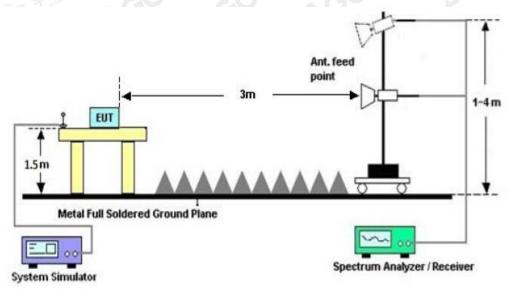
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#### 11. 20DB BANDWIDTH

#### **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  $\geq$  1% of the 20 dB bandwidth, VBW  $\geq$  3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

#### 11.2. TEST SET-UP

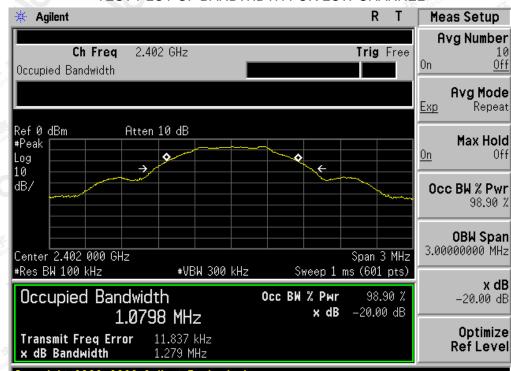


#### **11.3. LIMITS AND MEASUREMENT RESULTS**

#### FOR BLE

BLUET	OOTH 1MBPS LIN	ITS AND MEASU	REMENT RESULT						
	Measurement Result								
Applicable Limits		Result							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
Const Const C Alexandra	Low Channel	1.080	1.279	PASS					
N/A	Middle Channel	1.065	1.255	PASS					
	High Channel	1.070	1.268	PASS					

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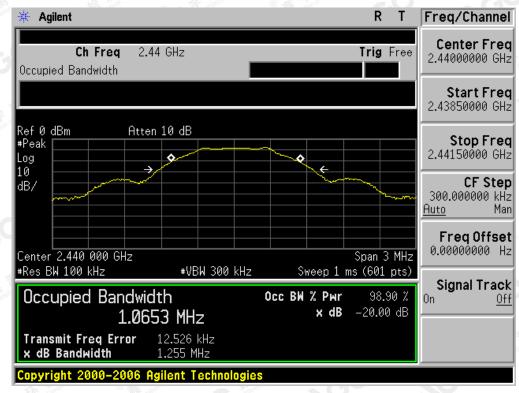


#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

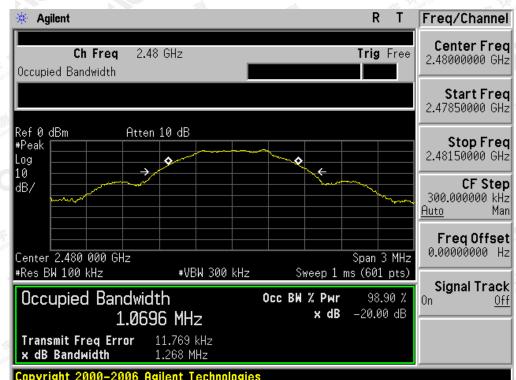
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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#### 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

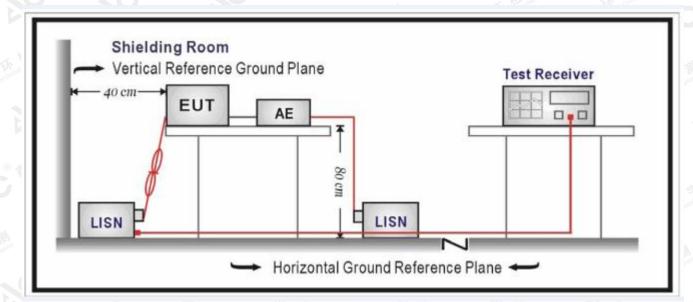
Francisco	Maximum RF Line Voltage								
Frequency	Q.P.( dBuV)	Average( dBuV)							
150kHz~500kHz	66-56	56-46							
500kHz~5MHz	© 56 56	46							
5MHz~30MHz	60	50							

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

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



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

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received voltage by adapter 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.
- 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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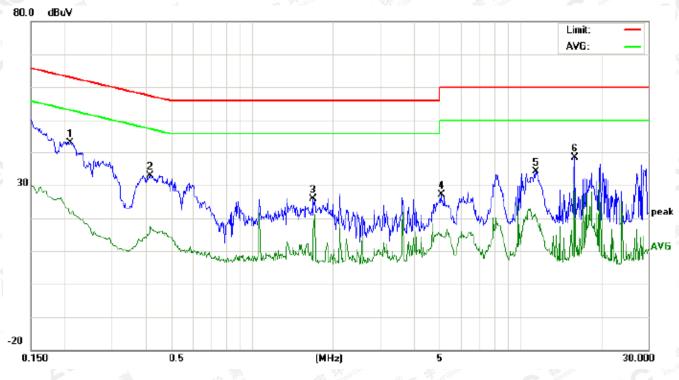
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#### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BLE

Line Conducted Emission Test Line 1-L



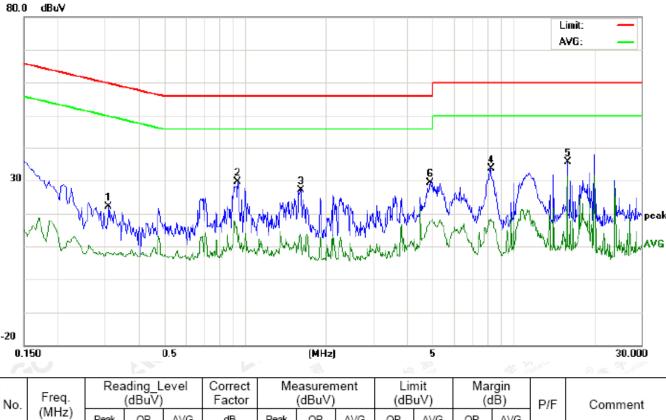
Г						ALLAC AND		1000 AN		TOCT CONSUL				1000	
	No.	Freq.		iding_L (dBuV)		Correct Factor		asuren (dBuV)		Limit (dBuV)		Margin (dB)		P/F	Comment
		(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		3
	1	0.2100	32.77		11.08	10.23	43.00		21.31	63.20	53.20	-20.20	-31.89	Ρ	
2	2	0.4148	22.49		5.27	10.34	32.83		15.61	57.55	47.55	-24.72	-31.94	Р	
	3	1.6940	15.55		5.92	10.32	25.87		16.24	56.00	46.00	-30.13	-29.76	Р	
5	4	5.0739	16.80		4.45	10.24	27.04		14.69	60.00	50.00	-32.96	-35.31	Ρ	
	5	11.4699	24.07		10.14	10.12	34.19		20.26	60.00	50.00	-25.81	-29.74	Р	
	6	16.0299	28.37		17.76	10.11	38.48		27.87	60.00	50.00	-21.52	-22.13	Р	

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Line Conducted Emission Test Line 2-N

No.	Freq.		Reading_Level (dBuV)		Correct Measurement Factor (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment		
1.0.	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG	• • •	Comment	
1	0.3100	11.88		-2.20	10.29	22.17		8.09	59.97	49.97	-37.80	-41.88	Р		
2	0.9420	19.20		1.00	10.39	29.59		11.39	56.00	46.00	-26.41	-34.61	Р		
3	1.6140	16.79		2.35	10.34	27.13		12.69	56.00	46.00	-28.87	-33.31	Р		
4	8.2699	23.22		7.95	10.34	33.56		18.29	60.00	50.00	-26.44	-31.71	Р		
5	15.9299	25.57		21.39	10.11	35.68		31.50	60.00	50.00	-24.32	-18.50	Р		
6	4.9219	19.22		7.31	10.24	29.46		17.55	56.00	46.00	-26.54	-28.45	Р		

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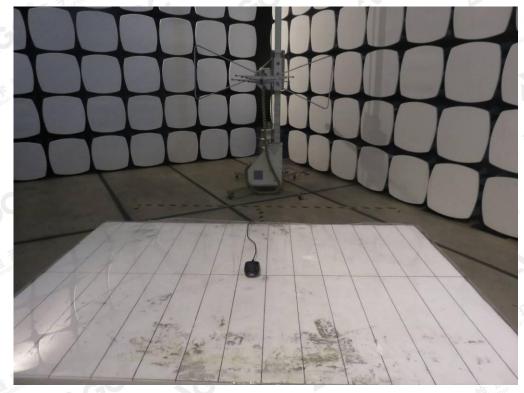


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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP

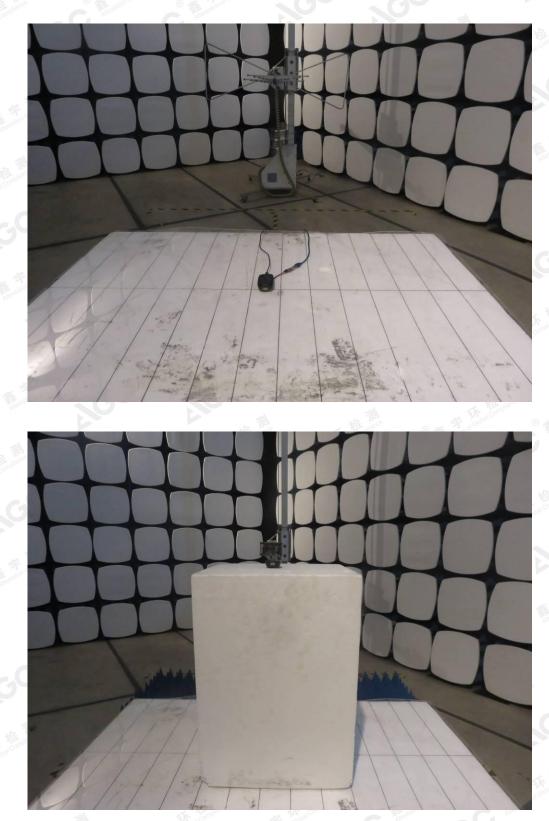


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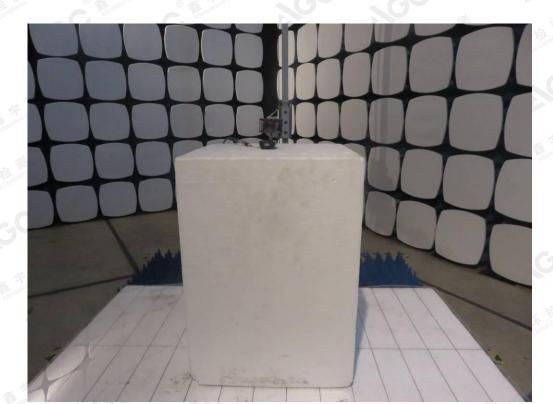


The results shown in this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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

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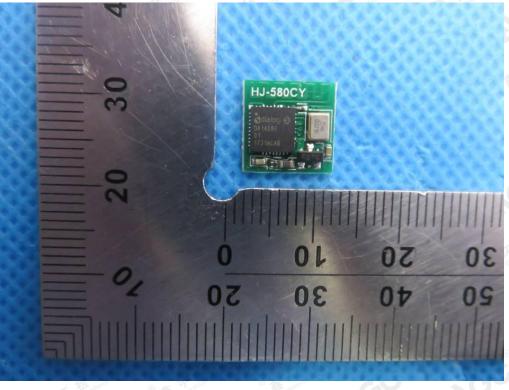




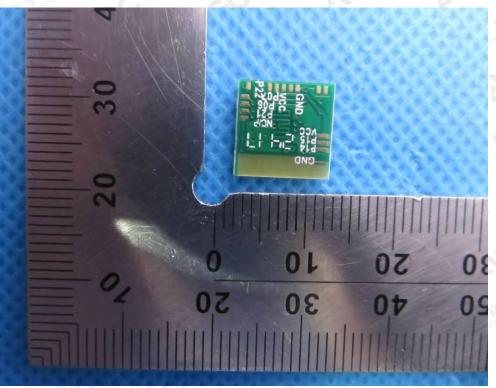
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# **APPENDIX B: PHOTOGRAPHS OF EUT**

VIEW OF EUT-1



**VIEW OF EUT-2** 



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**VIEW OF EUT-3** 



VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

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

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