

# **FCC Test Report**

## Report No.: AGC00805180601FE04

FCC ID	: 2ACB3-BM2
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Bluetooth Helmet
BRAND NAME	: FreedConn
MODEL NAME	: BM2
CLIENT	: ShenZhen FreedConn(FDC) Electronics Co., Ltd
DATE OF ISSUE	: Jun. 25, 2018
STANDARD(S)	: FCC Part 15 Subpart C Section 15.247
REPORT VERSION	: V1.0

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

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#### **Report Revise Record**

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

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#### **1. VERIFICATION OF CONFORMITY**

Alle	
Applicant	ShenZhen FreedConn(FDC) Electronics Co., Ltd
Address	6th Floor, Wanlihua Industrial Park, Gushu 2nd Road, Gushu Community, Xixiang Street, BaoAn District, Shenzhen, China
Manufacturer	ShenZhen FreedConn(FDC) Electronics Co., Ltd
Address	6th Floor, Wanlihua Industrial Park,Gushu 2nd Road, Gushu Community, Xixiang Street, BaoAn District, Shenzhen, China
Product Designation	Bluetooth Helmet
Brand Name	FreedConn
Test Model	BM2
Date of test	Jun.11, 2018 to Jun. 18, 2018
Deviation	None
Condition of Test Sample	Normal State
Report Template	AGCRT-US-BR/RF (2013-03-01)

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 15.247. The test results of this report relate only to the tested sample identified in this report.

Tested By

Zhang Hamu

Henry Zhang(Zhang Zhuorui) Jun. 18, 2018

we chang

Reviewed By

Cool Cheng(Cheng Mengguo) Jun. 25, 2018

Forvesto en

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

Jun. 25, 2018

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## 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

The EUT is "Bluetooth Helmet" designed as a "Communication Device". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	12.52dBm(Max)
Bluetooth Version	V2.1+EDR
Modulation	GFSK, π /4-DQPSK, 8DPSK for BR/EDR
Number of channels	79
Hardware Version	V3.0
Software Version	V1.0
Antenna Designation	Ceramic Antenna
Antenna Gain	2dBi
Power Supply	DC 3.7V by Battery

#### 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402MHz
· The Constance	Francismus C Transmit , C ?	2403MHz
C Reserver CC Res		
CC NO	38	2440 MHz
2402~2480MHz	39	2441 MHz
The Compared Contraction of China	40	2442 MHz
		A REP OFFICE
	77	2479 MHz
The the second second	o <sup>2004</sup> <sup>©</sup> 78 <b>G</b> <sup>™</sup>	2480 MHz

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#### 2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHZ, In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the

connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

#### 2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 79 hopping sequence in data mode: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

#### 2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values: 1. LAP/UAP of the master of the connection.

2. Internal master clock

The LAP(lower address part) are the 24 LSB's of the 48 BD\_ADDRESS. The BD\_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of the 48BD\_ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For synchronization with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30).In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire. LAP(24 bits),4LSB's(4bits)(Input 1) and the 27MSB's of the clock(Input 2) are used. With this input values different mathematical procedures(permutations, additions, XOR-operations)are performed to generate te Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended. The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer(and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always Differ from the first one.

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#### 2.6. TEST METHOD

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

#### 2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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

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#### 4. DESCRIPTION OF TEST MODES

	NO.	TEST MODE DESCRIPTION	
12 mplance	1	Low channel GFSK	
60 <b>4</b>	2	Middle channel GFSK	
GO	3	High channel GFSK	
	4	Low channel π /4-DQPSK	
Fration of Gobal	5 5 10 a constance	Middle channel π /4-DQPSK	
Ann	6	High channel π /4-DQPSK	
	7	Low channel 8DPSK	
8	8 Good Contra	Middle channel 8DPSK	
2G	9	High channel 8DPSK	
	10	BT Link with charging	
-111	11 👘	BT Link	
Note:	Et Comput		

#### Note:

1. 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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<u> </u>	G	Software Se	tting	一面	plance B	ance
lueTest3						Contraction (Contraction)
t Mode					,	10
USE		-			Close	
DIO STATUS DIO STATUS FULL		LO Freq. (MHz)	2402			
1		Power (Ext, Int)	255	50	Execute	Global
DATA1			1		Execute	
DATA2 DATA3						
DATA4 					Cold Reset	Þ
START1 START2						
DATA1	<b>~</b>				Warm Reset	0 4
						1
t Results		1				
Save to file	Browse for	file Di	splay : 🕟 S	tandard	C Bit Error	
\logfile.txt						000
ing USB SPI (602250	3).					
isport active. (Hardware ID 0x332)	) firmware ver	sion 8648.				
Command Varid 5004	4, parameters:	0004 0962 FF32 0000	0000 0000			
o Test TXDATA1 succ	cessful					1. 5
						onote
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						1
C Steamon of	C	The statut				
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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



PC or Adapter

**Note:** Owing to the EUT has own battery, testing may be performed while PC or adapter removed. Configure 2: (Control continuous TX)



#### 5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Bluetooth Helmet	FreedConn	BM2	EUT Share
2	Battery	AK	583036	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	CSR	N/A	A.E
5	Adapter	IPRO	NTR-S01	A.E
6	USB Cable	N/A	1m unshielded	A.E
7 🖉	IPOD	APPLE	A1367	A.E
8	Temporary Antenna Connector	T10	N/A	A.E

Note: The temporary antenna connector is a RF SMA connector with fifty ohm resistor, which is welded to the PCB board or module.

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

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247 b(1)	Peak Output Power	Compliant
§15.247 a(1)	20 dB Bandwidth	Compliant
§15.247 d	Conducted Spurious Emission	Compliant
§15.247 d §15.209	Radiated Emission	Compliant
§15.247 d	Band Edges	Compliant
§15.247 a(1)(iii)	Number of hopping frequency	Compliant
§15.247 a(1)(iii)	Time of Occupancy	Compliant
§15.247 a(1)	Frequency Separation	Compliant
§15.207	Line conduction Emission	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 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
Loop Antenna	A.H.Systems,Inc	SAS-562B		Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	МХТ	RS1	R005	June 6, 2018	June 5, 2019
Radiation Cable 2	MXT	RS1	R006	June 6, 2018	June 5, 2019

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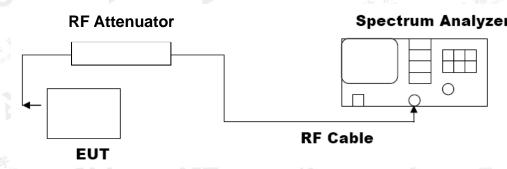
#### 8. PEAK OUTPUT POWER

#### 8.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
- 3. RBW > the 20 dB bandwidth of the emission being measured, VBW  $\ge$  RBW.
- 4. Record the maximum power from the Spectrum Analyzer.
- 5. The maximum peak power shall be less 21dBm.

#### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

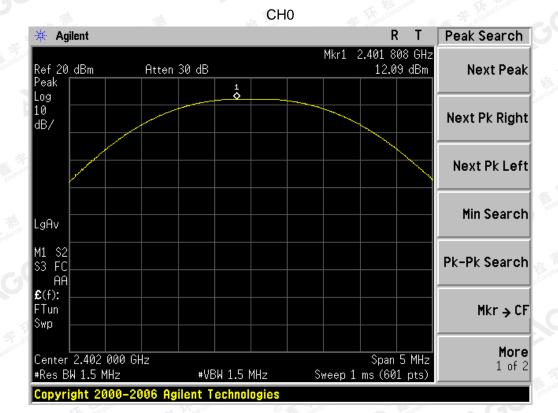


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#### 8.3. LIMITS AND MEASUREMENT RESULT

	PEAK OUTPUT POWER	MEASUREMENT RESULT	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	12.09	21	Pass
2.441	12.39	21	Pass
2.480	12.52	21	Pass

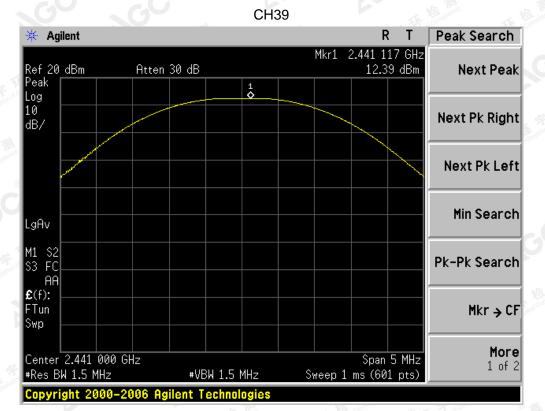


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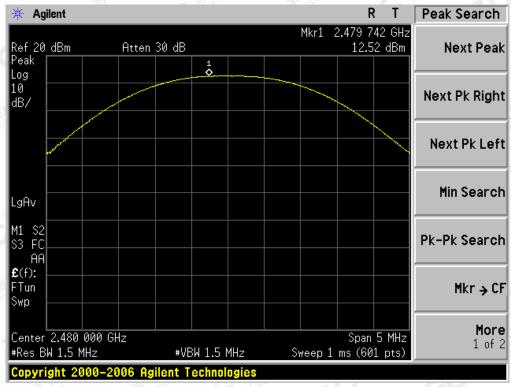




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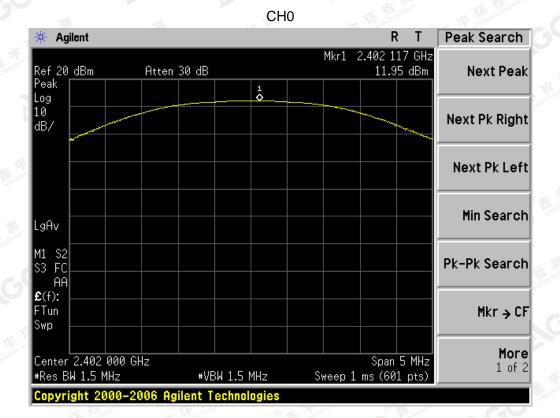


CH78



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Alle	line and the second sec	The second se	
	PEAK OUTPUT POWE	R MEASUREMENT RESULT	
	FOR II /4-DG	PSK MODULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	11.95	21	Pass
2.441	12.18	21 21	Pass
2.480	11.96	21	Pass



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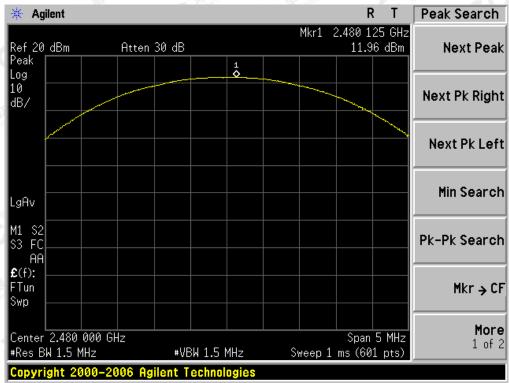


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Peak Search Agilent R Т Mkr1 2.441 150 GHz 12.18 dBm Ref 20 dBm Atten 30 dB Next Peak Peak 10 Log 10 Next Pk Right dB/ Next Pk Left Min Search LgAv M1 S2 S3 FC Pk-Pk Search AA £(f): FTun Mkr → CF Swp More Center 2.441 000 GHz Span 5 MHz 1 of 2 #Res BW 1.5 MHz Sweep 1 ms (601 pts) #VBW 1.5 MHz

#### **CH39**

CH78



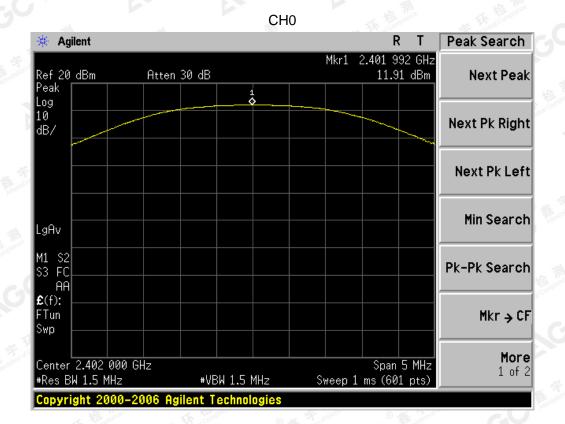
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	PEAK OUTPUT POWEI	R MEASUREMENT RESULT	
	FOR 8-DPS	K MODULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	11.91	21	Pass
2.441	12.20	21	Pass
2.480	12.03	21	Pass

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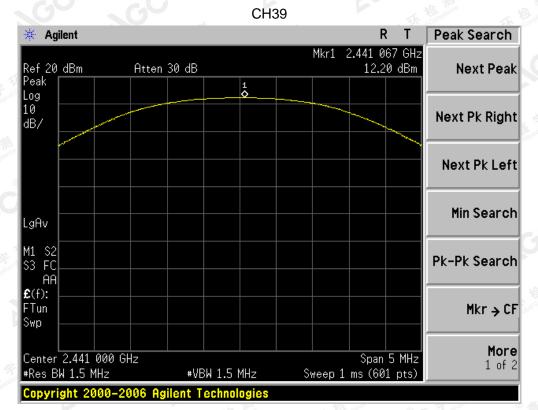


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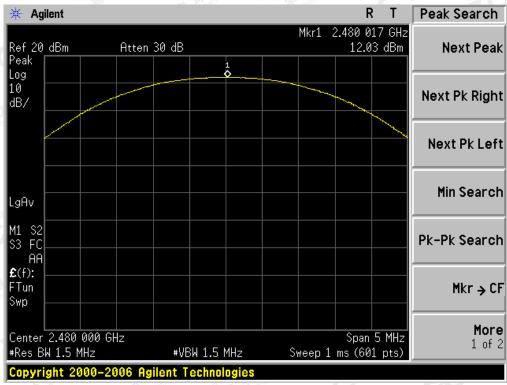




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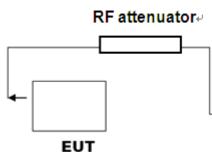
#### Report No.: AGC00805180601FE04 Page 23 of 79

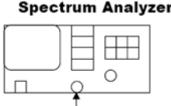
#### 9. BANDWIDTH

#### 9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. 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
- 4. Set SPA Trace 1 Max hold, then View.

#### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)





**RF** Cable

Note: The EUT has been used temporary antenna connector for testing.

#### 9.3. LIMITS AND MEASUREMENT RESULTS

	BLUETOOTH	1MBPS LIMITS AN	ID MEASUREMENT	RESULT
Measurement Result				
Applicable Limits	Test Data (MHz)			Desult
		99%OBW (MHz)	-20dB BW(MHz)	Result
a the stand Company	Low Channel	0.929	1.078	PASS
N/A	Middle Channel	0.937	1.089	PASS
	High Channel	0.946	1.095	PASS

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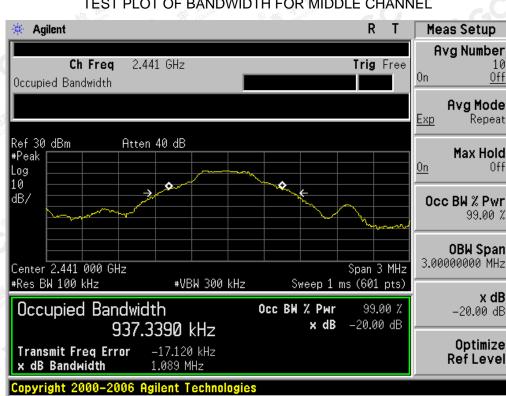




#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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E-mail: agc@agc-cert.com



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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	BLUETOOTH 2	MBPS LIMITS AN	D MEASUREMENT RE	SULT
		Ме	asurement Result	
Applicable Limits		Result		
		99%OBW (MHz)	-20dB BW(MHz)	Result
	Low Channel	1.270	1.388	C PASS
N/A	Middle Channel	1.288	1.394	PASS
SGC "	High Channel	1.278	1.390	PASS

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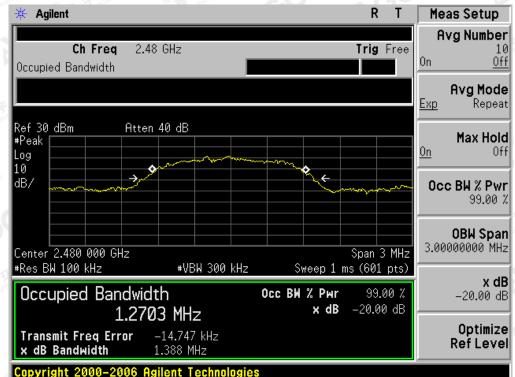
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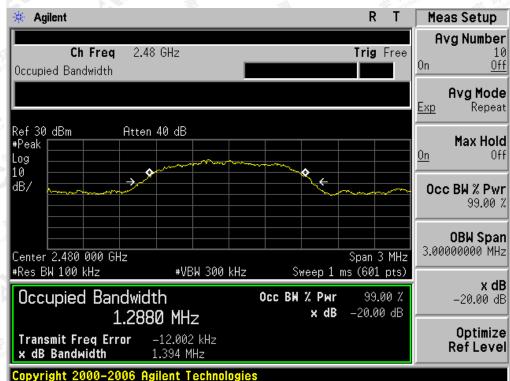
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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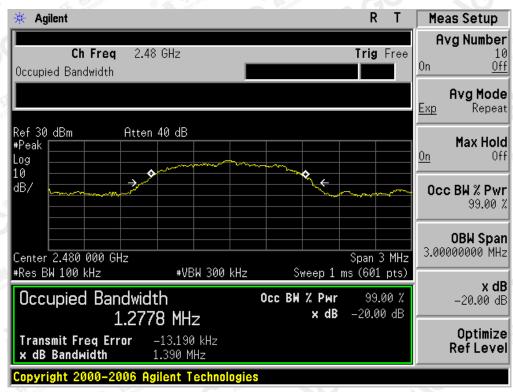


#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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	BLUETOOTH	3MBPS LIMITS AN	D MEASUREMENT RE	ESULT
			asurement Result	
Applicable Limits	Test Data (MHz)			
		99%OBW (MHz)	-20dB BW(MHz)	Result
The tomptone	Low Channel	1.269	1.414	PASS
N/A	Middle Channel	1.274	1.406	PASS
SCO	High Channel	1.269	1.408	PASS

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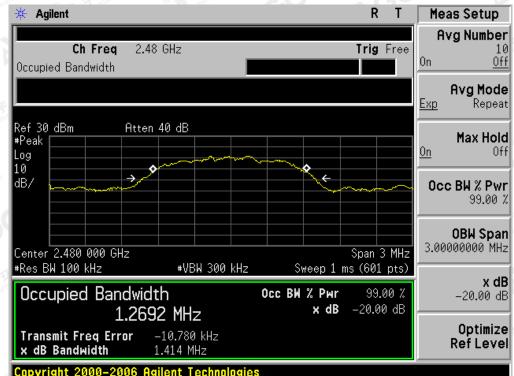
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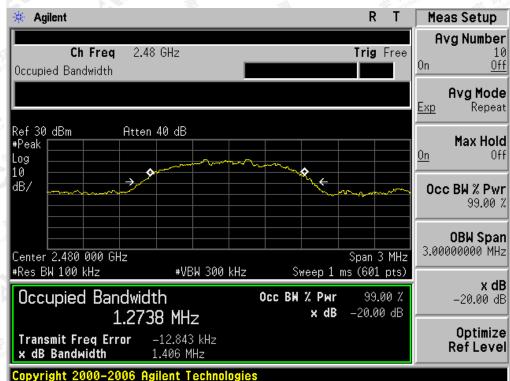
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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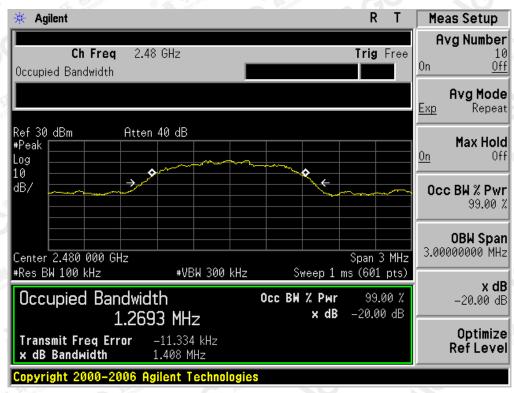


#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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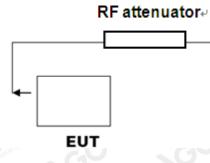
#### Report No.: AGC00805180601FE04 Page 30 of 79

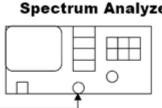
#### **10. CONDUCTED SPURIOUS EMISSION**

#### 10.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
  RBW = 100 kHz; VBW = 300kHz; Sweep = auto; Detector function = peak.
- RBW = 100 RHZ; VBW = 300 RHZ; Sweep = auto; Detector
- 4. Set SPA Trace 1 Max hold, then View.

#### 10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)





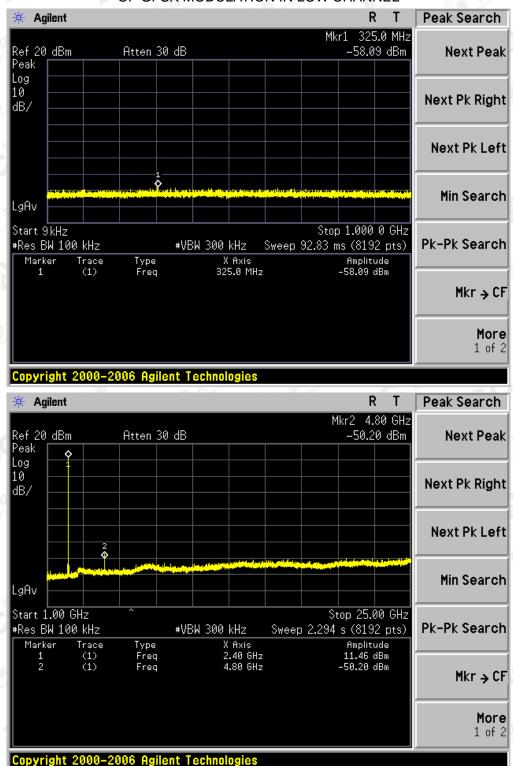
**RF** Cable

#### **10.3. LIMITS AND MEASUREMENT RESULT**

LIMITS AND MEASUREMENT RESULT					
	Measurement Result				
Applicable Limits	Test Data	Result			
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit				
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS			
intentional radiator is operating, the radio frequency	Channel	The the states			
power that is produce by the intentional radiator		C The monot Clobal			
shall be at least 20 dB below that in 100KHz		C Press			
bandwidth within the band that contains the highest					
level of the desired power.	At least -20dBc than the limit	PASS			
In addition, radiation emissions which fall in the	Specified on the TOP Channel	FAOD			
restricted bands, as defined in §15.205(a), must also		abal Company			
comply with the radiated emission limits specified		SO			
in§15.209(a))	c.C GU				

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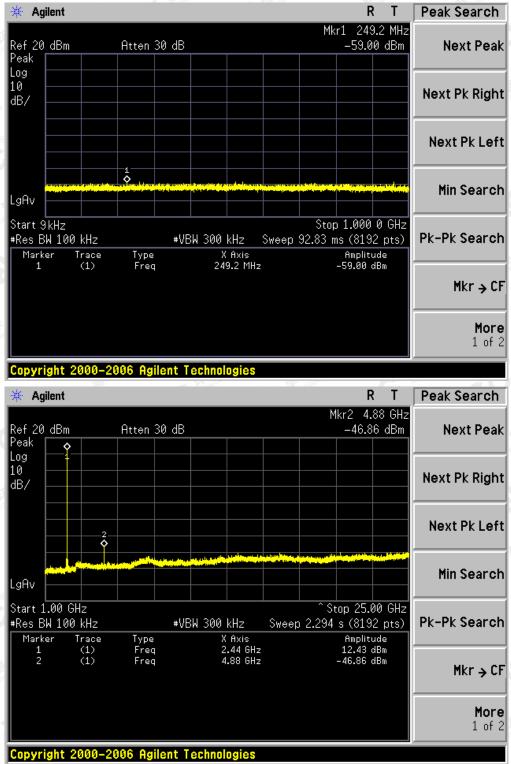




#### TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF GFSK MODULATION IN LOW CHANNEL

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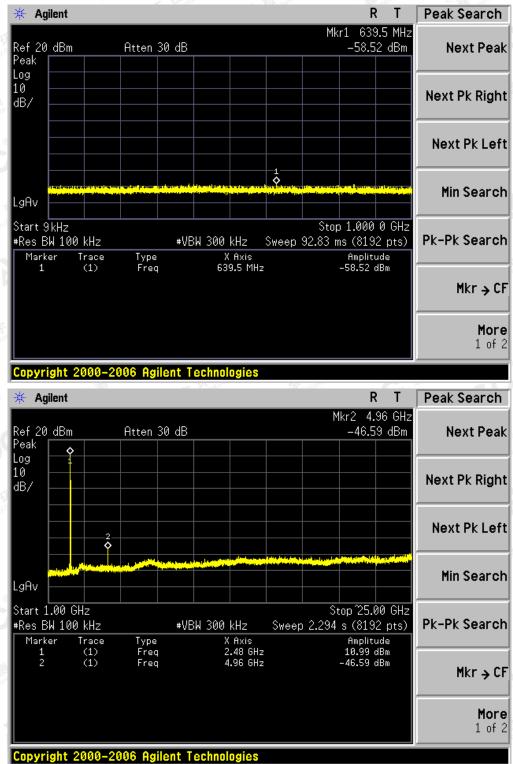




TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL

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#### TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL

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#### **11. RADIATED EMISSION**

#### 11.1. TEST LIMIT

Frequency	Distance	Field Strengths Limit		
(MHz)	Meters	μ V/m	dB(µV)/m	
0.009 ~ 0.490	300	2400/F(kHz)	Contraction of Contraction	
0.490 ~ 1.705	30	24000/F(kHz)	-C **** . C	
1.705 ~ 30	30	30		
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	Other:74.0 dB(µV)/m (Peak) 54	4.0 dB(µV)/m (Average)	

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.

#### **11.2. 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)
- 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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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	1GHz~26.5GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average

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

	The second secon	# Condicant @ # Franciscon - C hut
	Receiver Parameter	Setting
C Messale	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
0	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
lin-	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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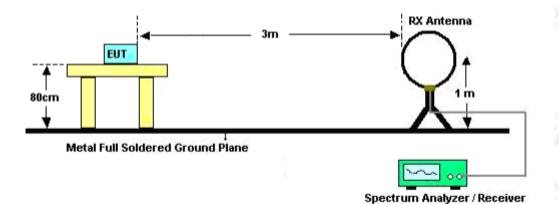




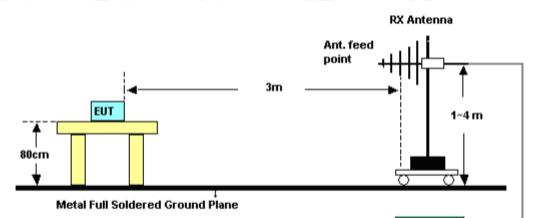
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#### 11.3. TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



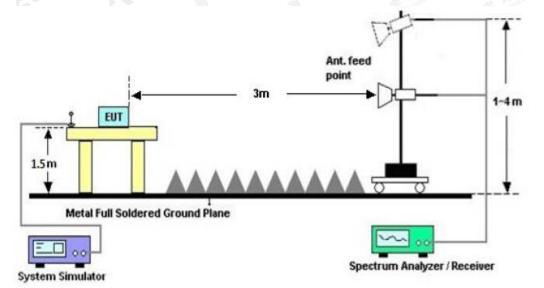
Spectrum Analyzer / Receiver

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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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## 11.4. TEST RESULT

(Worst Modulation: GFSK)

## **RADIATED EMISSION BELOW 30MHz**

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

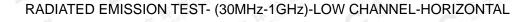
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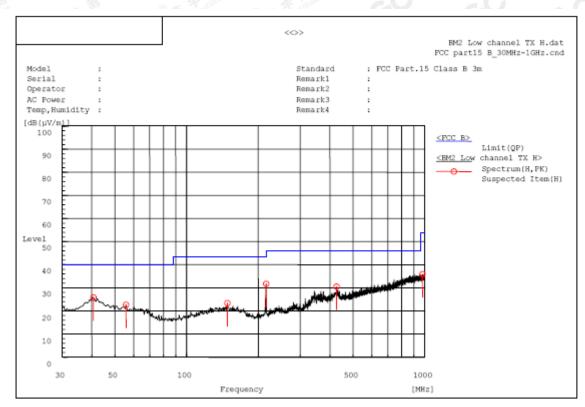


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## **RADIATED EMISSION BELOW 1GHz**



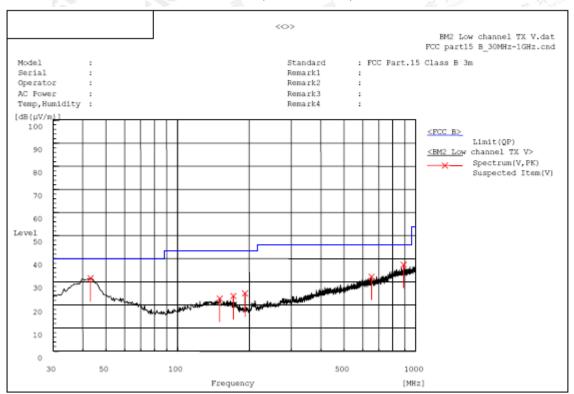


## A. Suspected List:

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
40.670	н	8.4	17.4	25.8	40.0	14.2	Pass	150.0	107.9
55.705	н	6.0	16.6	22.6	40.0	17.4	Pass	150.0	72.2
148.340	н	6.7	16.6	23.3	43.5	20.2	Pass	200.0	51.2
215.755	Н	17.4	14.3	31.7	43.5	11.8	Pass	150.0	72.2
426.730	Н	8.9	21.6	30.5	46.0	15.5	Pass	200.0	86.9
978.660	н	5.0	30.9	35.9	54.0	18.1	Pass	200.0	267.7

## **RESULT: PASS**

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

## A. Suspected List:

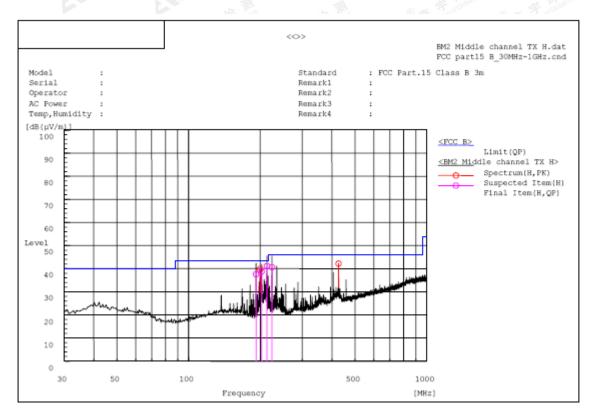
Freque MHz		Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
43.09	15	v	14.1	17.4	31.5	40.0	8.5	Pass	200.0	59.1
150.28	80	v	6.1	16.6	22.7	43.5	20.8	Pass	200.0	208.7
171.62	20	v	8.2	15.7	23.9	43.5	19.6	Pass	200.0	101.3
191.99	90	v	11.3	13.7	25.0	43.5	18.5	Pass	100.0	87.7
652.25	55	v	6.5	25.7	32.2	46.0	13.8	Pass	200.0	173.6
889.42	20	v	7.3	30.1	37.4	46.0	8.6	Pass	200.0	133.3

## **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

## A. Suspected List:

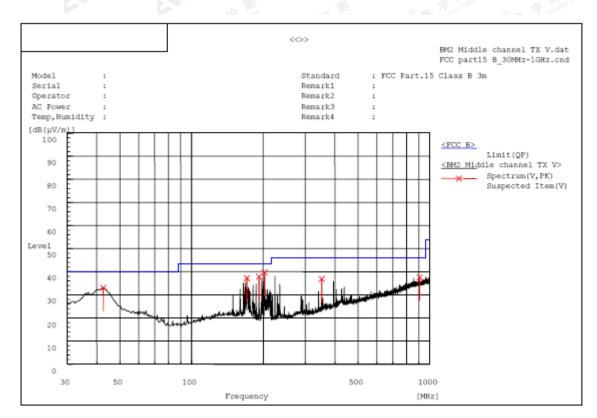
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
199.750	Н	26.4	13.5	39.9	43.5	3.6	Pass	100.0	128.7
426.730	н	20.6	21.6	42.2	46.0	3.8	Pass	100.0	208.3

## B. Final Data List:

Frequency MHz	Polarization	Reading dB(uV) QP	Factor dB (1/m)	Level dB(uV/m) QP	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
191.990	Н	23.9	13.7	37.6	43.5	5.9	Pass	150.0	103.0
202.660	H	25.1	13.6	38.7	43.5	4.8	Pass	150.0	159.4
213.330	Н	27.0	14.1	41.1	43.5	2.4	Pass	150.0	159.4
224.000	Н	25.5	15.1	40.6	46.0	5.4	Pass	150.0	60.6

## **RESULT: PASS**

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

## A. Suspected List:

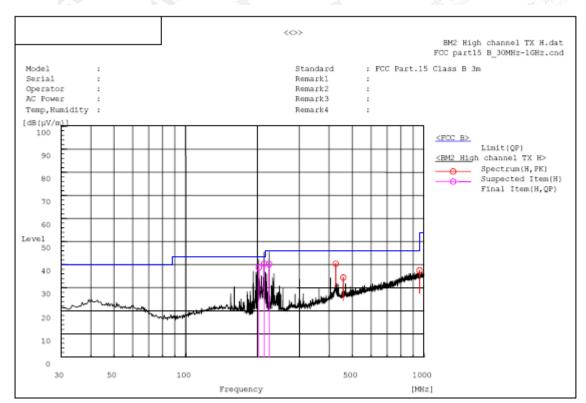
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
42.610	v	15.7	17.4	33.1	40.0	6.9	Pass	100.0	100.4
170.650	v	21.4	15.8	37.2	43.5	6.3	Pass	100.0	73.5
191.990	v	24.2	13.7	37.9	43.5	5.6	Pass	200.0	35.7
202.660	v	26.1	13.6	39.7	43.5	3.8	Pass	100.0	192.7
352.040	v	17.9	19.0	36.9	46.0	9.1	Pass	200.0	72.7
907.365	v	7.3	30.2	37.5	46.0	8.5	Pass	200.0	189.3

## **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

## 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
426.730	Н	18.8	21.6	40.4	46.0	5.6	Pass	200.0	158.8
458.740	н	12.2	22.2	34.4	46.0	11.6	Pass	200.0	57.9
958.290	н	6.8	30.7	37.5	46.0	8.5	Pass	200.0	182.7

## B. Final Data List:

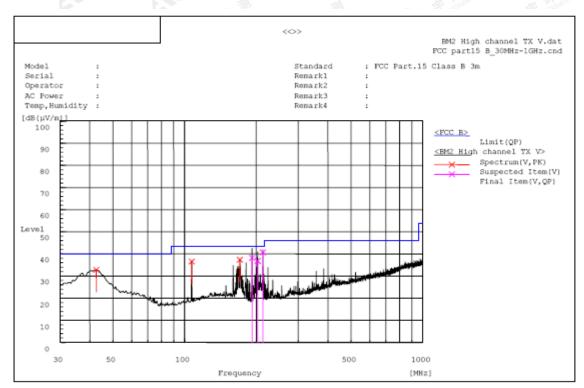
Frequency MHz	Polarization	Reading dB(uV) QP	Factor dB (1/m)	Level dB(uV/m) QP	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
202.660	Н	25.1	13.6	38.7	43.5	4.8	Pass	150.0	157.7
213.330	Н	26.3	14.1	40.4	43.5	3.1	Pass	200.0	148.0
224.000	Н	25.1	15.1	40.2	46.0	5.8	Pass	150.0	162.0

## RESULT: PASS

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## RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH 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
42.610	v	15.4	17.4	32.8	40.0	7.2	Pass	100.0	134.4
107.115	v	22.3	14.2	36.5	43.5	7.0	Pass	200.0	350.2
170.650	v	21.5	15.8	37.3	43.5	6.2	Pass	100.0	42.0

## B. Final Data List:

Frequency MHz	Polarization	Reading dB(uV) QP	Factor dB (1/m)	Level dB(uV/m) QP	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
191.990	v	24.5	13.7	38.2	43.5	5.3	Pass	100.0	184.9
202.660	v	23.2	13.6	36.8	43.5	6.7	Pass	100.0	216.7
213.330	v	26.6	14.1	40.7	43.5	2.8	Pass	100.0	188.3

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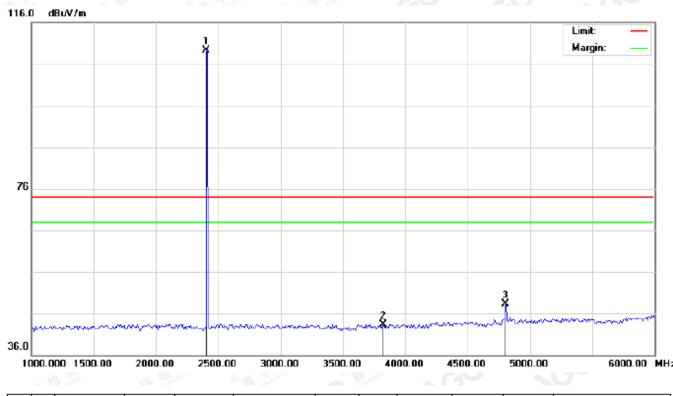
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## **RADIATED EMISSION ABOVE 1GHz**

## RADIATED EMISSION ABOVE 1GHz (1-10<sup>th</sup> Harmonics)-LOW CHANNEL-HORIZONTAL

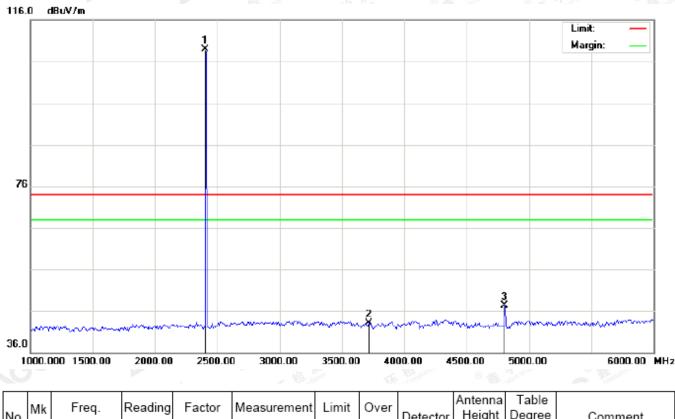


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2402.000	99.00	10.32	109.32	74.00	35.32	peak			
2		3825.000	29.20	14.11	43.31	74.00	-30.69	peak			
3		4804.000	40.71	7.69	48.40	74.00	-25.60	peak			

**RESULT: PASS** 

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## RADIATED EMISSION ABOVE 1GHz (1-10<sup>th</sup> Harmonics)-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	98.52	10.32	108.84	74.00	34.84	peak			
2		3716.667	29.58	13.44	43.02	74.00	-30.98	peak			
3		4804.000	39.55	7.69	47.24	74.00	-26.76	peak			

**RESULT: PASS** 

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116.0 dBuV/m Limit: Margin: 76 X 36.0 1000.000 1500.00 2000.00 2500.00 3000.00 3500.00 4000.00 4500.00 5000.00 6000.00 MHz

RADIATED EMISSION ABOVE 1GHz (	1-10 <sup>th</sup> Harmonics)-MIDDLE CHANNEL-HORIZONTAL

No.	Mk	Freq.	q. Reading Factor Measurement Limit Over		Detector	Antenna Height	Table Degree	Comment			
	•	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB	]	cm	degree	
1	*	2441.000	99.19	10.36	109.55	74.00	35.55	peak			
2		3725.000	28.41	13.50	41.91	74.00	-32.09	peak			
3		4882.000	40.16	7.89	48.05	74.00	-25.95	peak			

**RESULT: PASS** 

R

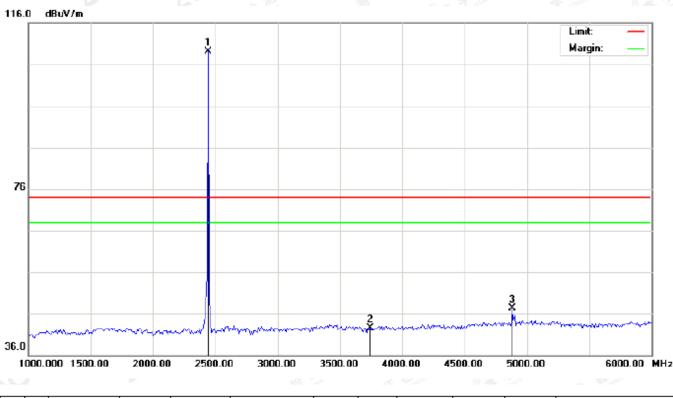
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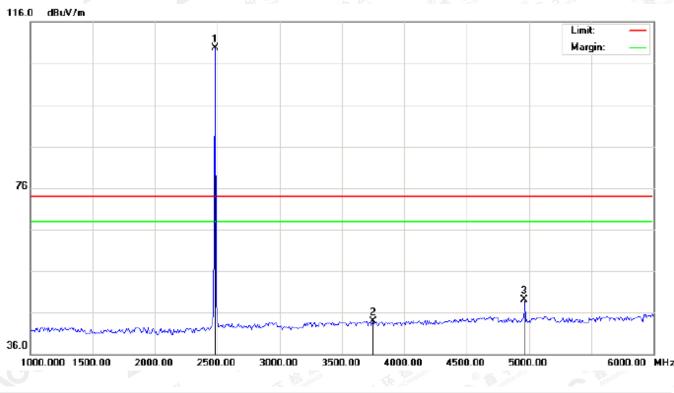
RADIATED EMISSION ABOVE 1GHz (1-10<sup>th</sup> Harmonics) - MIDDLE CHANNEL - VERTICAL

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	*	2441.000	98.73	10.36	109.09	74.00	35.09	peak			
2		3741.667	28.93	13.60	42.53	74.00	-31.47	peak			
3		4882.000	39.39	7.89	47.28	74.00	-26.72	peak			

**RESULT: PASS** 

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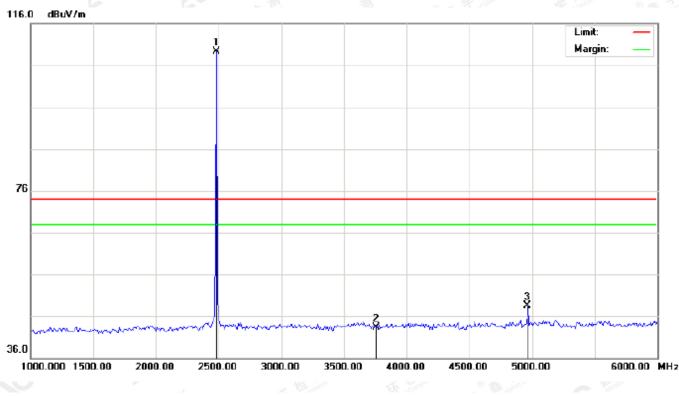
## RADIATED EMISSION ABOVE 1GHz (1-10<sup>th</sup> Harmonics)-HIGH CHANNEL-HORIZONTAL

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	99.34	10.41	109.75	74.00	35.75	peak				
2		3750.000	30.25	13.65	43.90	74.00	-30.10	peak				
3		4960.000	41.10	8.09	49.19	74.00	-24.81	peak				

**RESULT: PASS** 

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RADIATED EMISSION ABOVE 1GHz (1-10<sup>th</sup> Harmonics)-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	*	2480.000	98.85	10.41	109.26	74.00	35.26	peak			
2		3758.333	29.63	13.70	43.33	74.00	-30.67	peak			
3		4960.000	40.41	8.09	48.50	74.00	-25.50	peak			

## **RESULT: PASS**

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

- Factor=Antenna Factor+ Cable loss-Amplifier gain, Margin=Measurement-Limit.
  - The "Factor" value can be calculated automatically by software of measurement system.

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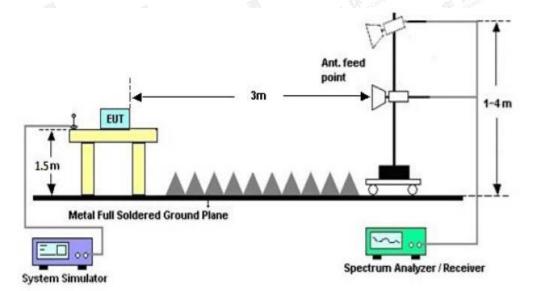
## Report No.: AGC00805180601FE04 Page 51 of 79

## **12. BAND EDGE EMISSION**

## **12.1. MEASUREMENT PROCEDURE**

- 1. Set the EUT Work on the top, the bottom operation frequency individually.
- 2. Set SPA Start or Stop Frequency=Operation Frequency, For unrestricted band: RBW=100kHz, VBW=300kHz For restricted band: RBW=1MHz, VBW=3\*RBW
  - Center frequency =Operation frequency
- 3. The band edges was measured and recorded.

## 12.2. TEST SET-UP



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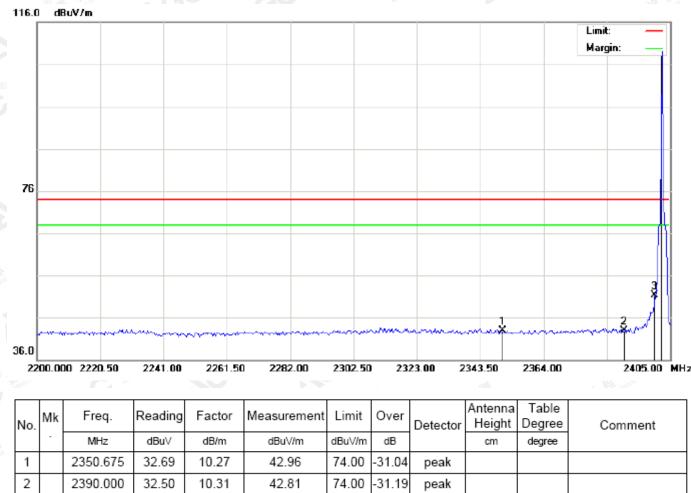




## 12.3. TEST RESULT

## (Worst Modulation: GFSK)

## TEST PLOT OF BAND EDGE FOR LOW CHANNEL (1Mbps)-Horizontal



74.00

74.00

-22.71

35.04

peak

peak

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3

4

2400.000

2402.000

40.97

98.72

10.32

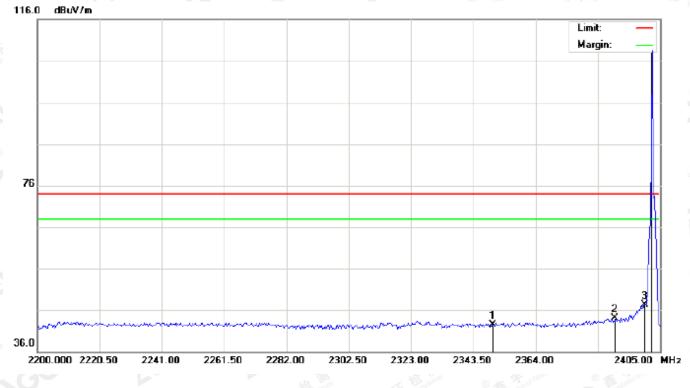
10.32

51.29

109.04



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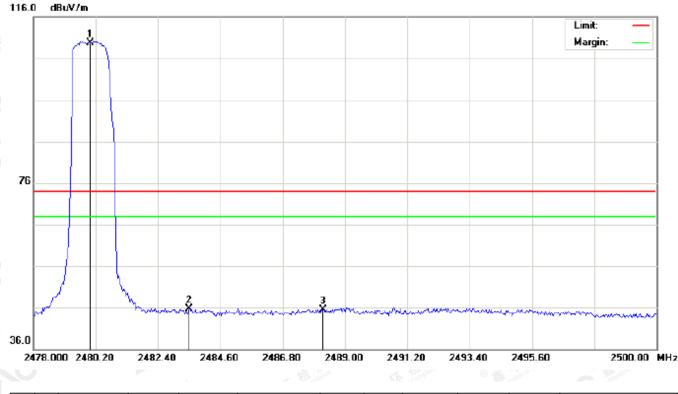


## TEST PLOT OF BAND EDGE FOR LOW CHANNEL (1Mbps)-Vertical

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		2349.991	32.30	10.26	42.56	74.00	-31.44	peak			
2		2390.000	33.71	10.31	44.02	74.00	-29.98	peak			
3		2400.000	37.06	10.32	47.38	74.00	-26.62	peak			
4	*	2402.000	98.09	10.32	108.41	74.00	34.41	peak			

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## TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (1Mbps)-Horizontal

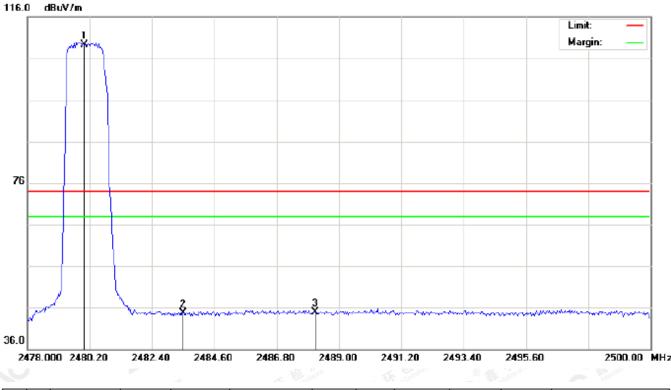
	۷o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
ſ	1	*	2480.000	99.38	10.41	109.79	74.00	35.79	peak			
Γ	2		2483.500	35.19	10.41	45.60	74.00	-28.40	peak			
	3		2488.230	35.16	10.42	45.58	74.00	-28.42	peak			

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## TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (1Mbps)-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	*	2480.000	98.82	10.41	109.23	74.00	35.23	peak			
2		2483.500	34.26	10.41	44.67	74.00	-29.33	peak			
3		2488.157	34.47	10.42	44.89	74.00	-29.11	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.
- 3. Hopping off and Hopping on have been tested and only worst case recorded

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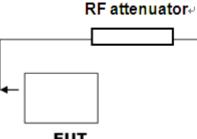
## Report No.: AGC00805180601FE04 Page 56 of 79

## **13. NUMBER OF HOPPING FREQUENCY**

## **13.1. MEASUREMENT PROCEDURE**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz
- 4. Set the Spectrum Analyzer as RBW>=1%span, VBW>=3RBW.

## **13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)**



EUT

# Spectrum Analyzer

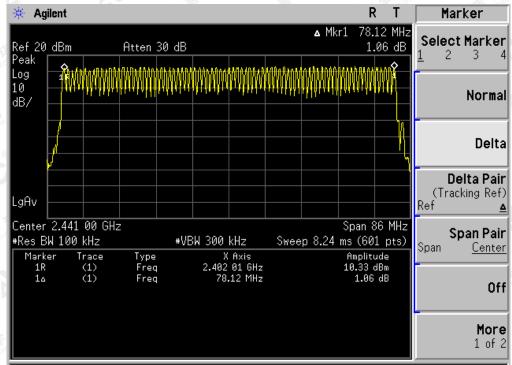
**RF** Cable

## **13.3. LIMITS AND MEASUREMENT RESULT**

	TOTAL NO. OF	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
line -	HOPPING CHANNEL	>=15	79	PASS

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## TEST PLOT FOR NO. OF TOTAL CHANNELS

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## 14. TIME OF OCCUPANCY (DWELL TIME)

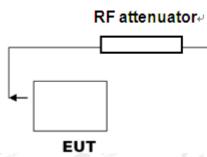
## **14.1. MEASUREMENT PROCEDURE**

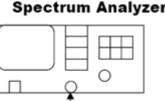
1. Place the EUT on the table and set it in transmitting mode

Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the 2. spectrum analyzer.

- 3. Set Span = zero span, centered on a hoping channel
- 4. Set the spectrum analyzer as RBW=1MHz, VBW>=RBW, Span = 0 Hz

## 14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)





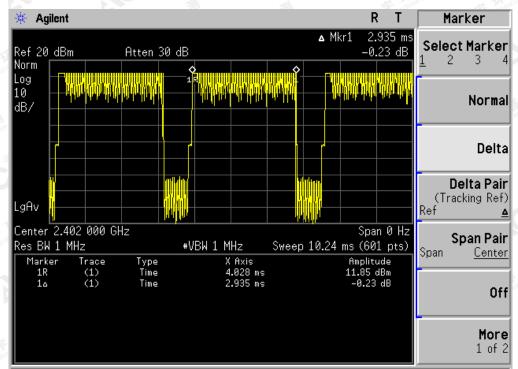
**RF** Cable

## **14.3. LIMITS AND MEASUREMENT RESULT**

	The We	orst Case (3Mbps)	C Huest	
Channel	Time of Pulse for DH5 (ms)	Period Time (s)	Sweep Time (ms)	Limit (ms)
Low	2.935	31.6	313.07	400
Middle	2.901	31.6	309.44	400
High	2.901	31.6	309.44	400

Low Channel Time 2.935\*(1600/6)/79\*31.6=313.07ms Middle Channel Time 2.901\*(1600/6)/79\*31.6=309.44ms **High Channel Time** 2.901\*(1600/6)/79\*31.6=309.44ms

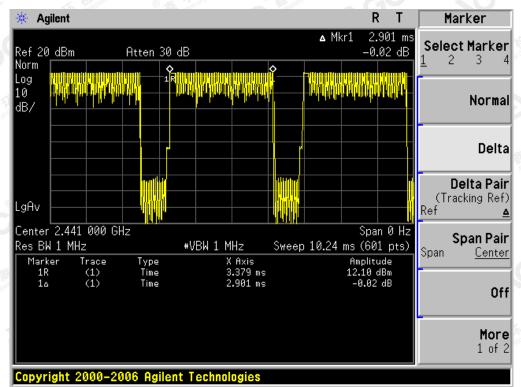
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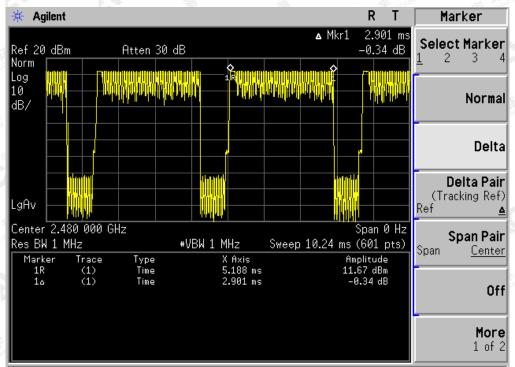
## TEST PLOT OF LOW CHANNEL

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## **TEST PLOT OF MIDDLE CHANNEL**



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## TEST PLOT OF HIGH CHANNEL

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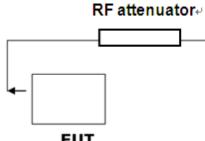
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## **15. FREQUENCY SEPARATION**

## 15.1. MEASUREMENT PROCEDURE

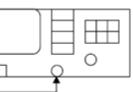
- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
- 3. Set Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold

## 15.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)



EUT

## Spectrum Analyzer



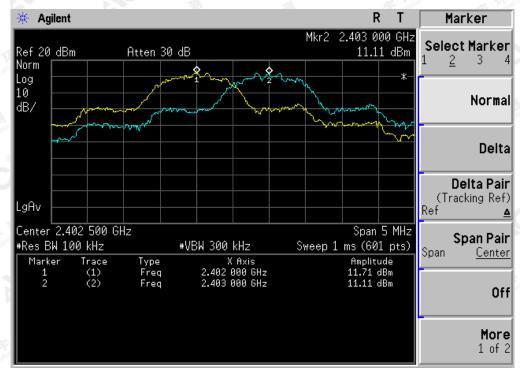
**RF** Cable

## **15.3. LIMITS AND MEASUREMENT RESULT**

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT
	KHz	KHz	
CH00-CH01	1000	>=25 KHz or 2/3 20 dB BW	Pass

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## TEST PLOT FOR FREQUENCY SEPARATION (3Mbps)

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## **16. LINE CONDUCTED EMISSION TEST**

## 16.1. LIMITS OF LINE CONDUCTED EMISSION TEST

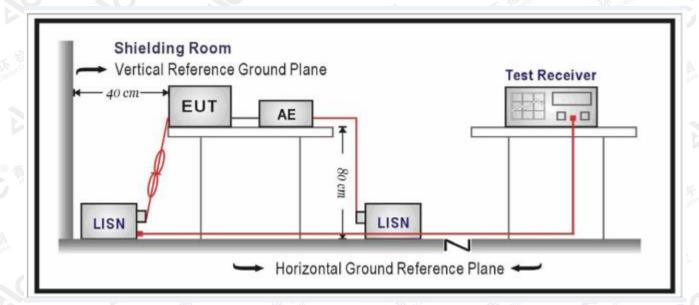
<b>F</b>	Maximum RF Line Voltage						
Frequency	Q.P.( dBuV)	Average( dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	56	46					
5MHz~30MHz	60	50					

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.

## 16.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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## 16.3. 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 DC charging voltage by adapter 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.

## 16.4. 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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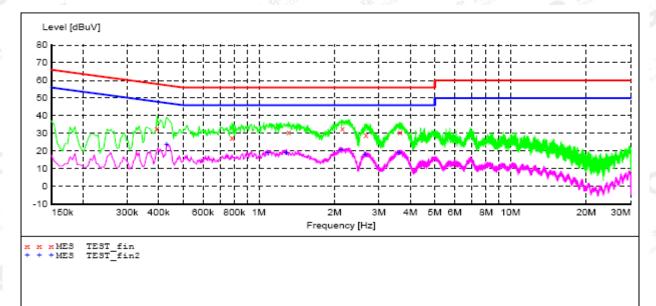
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## 16.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter (worst case)

## FOR BR/EDR

Line Conducted Emission Test Line 1-L



#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.394000 0.782000 1.314000 2.150000 2.662000 3.634000	32.90 27.60 30.90 32.80 29.40 30.50	10.0 10.0 10.1 9.9 9.9 10.1	58 56 56 56 56	25.1 28.4 25.1 23.2 26.6 25.5	-	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO FLO

#### MEASUREMENT RESULT:

Attestation of Global Compliance

Frequency MHz			Limit dBuV	Margin dB	Detector	Line	PE
0.430000	24.10	10.0	47	23.2	AV	L1	FLO
1.086000	18.90	10.1	46	27.1	AV	L1	FLO
1.286000	19.10	10.1	46	26.9	AV	L1	FLO
2.122000	20.50	9.9	46	25.5	AV	L1	FLO
2.650000	18.10	9.9	46	27.9	AV	L1	FLO
3.614000	19.10	10.1	46	26.9	AV	L1	FLO

Tel: +86-755 2908 1955

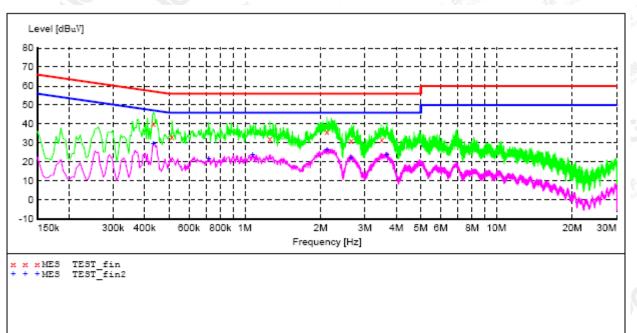
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Fax: +86-755 2600 8484

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China

E-mail: agc@agc-cert.com

**(**) 400 089 2118



Line Conducted Emission Test Line 2-N

#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.434000 0.514000 1.258000	40.50 33.60 32.50	10.0 9.9 10.1	57 56 56	16.7 22.4 23.5	QP QP	N N N	FLO FLO FLO
2.118000 2.646000 3.502000	35.80 31.40 31.60	9.9 9.9 10.0	56 56 56	20.2 24.6 24.4	QP QP QP	N N N	FLO FLO FLO

#### MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.434000 0.718000	29.80 21.60	10.0 9.9	47 46	17.4 24.4		N N	FLO FLO
1.074000	23.70	10.1	46	22.3	AV	N	FLO
2.122000	26.60	9.9	46	19.4	AV	N	FLO
2.642000	22.30	9.9	46	23.7	AV	N	FLO
3.666000	23.70	10.1	46	22.3	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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## APPENDIX B: PHOTOGRAPHS OF EUT WHOLE VIEW OF EUT



TOP VIEW OF EUT



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## BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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## BACK VIEW OF EUT



#### LEFT VIEW OF EUT



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## **RIGHT VIEW OF EUT**



VIEW OF EUT (LOCAL)-1



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## VIEW OF EUT (LOCAL)-2



VIEW OF EUT (PORT)



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## VIEW OF EUT (OPEN)-1



#### VIEW OF EUT (OPEN)-2

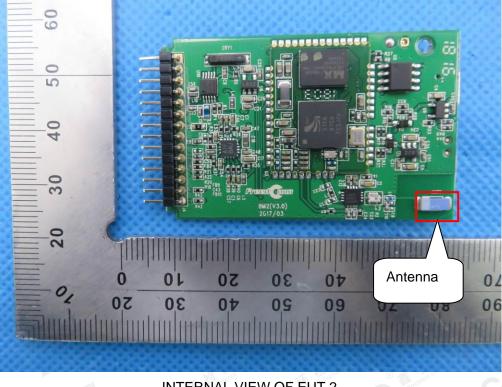


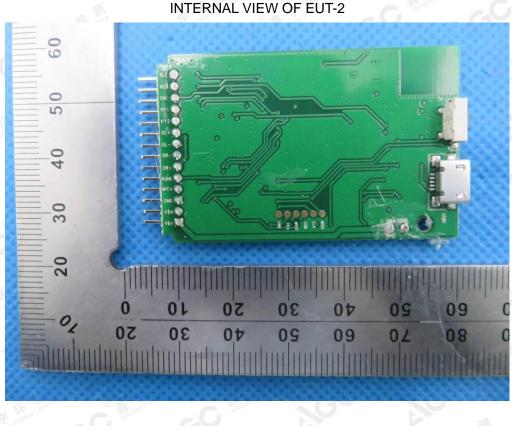
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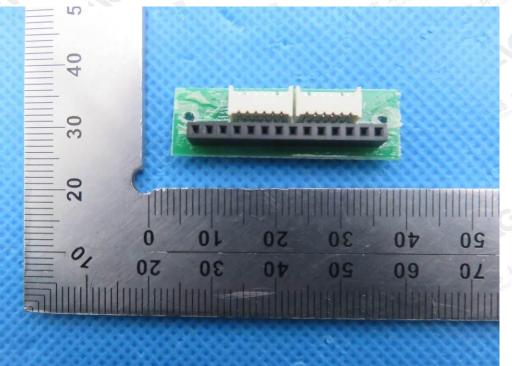


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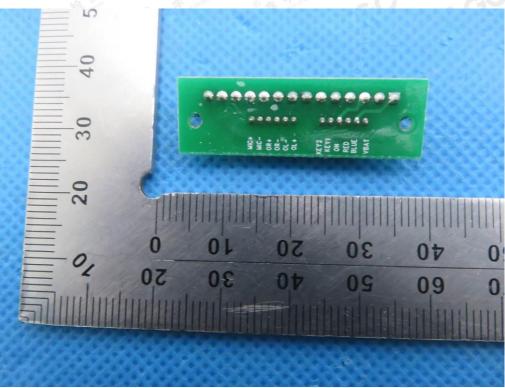


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**INTERNAL VIEW OF EUT-4** 

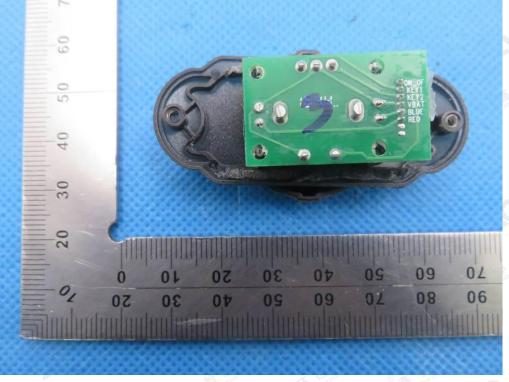


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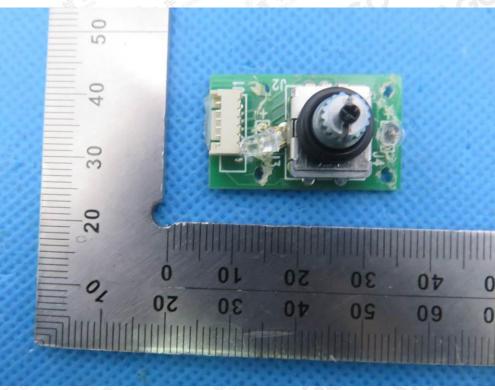


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## **INTERNAL VIEW OF EUT-5**



#### **INTERNAL VIEW OF EUT-6**



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**INTERNAL VIEW OF EUT-7** 

VIEW OF ADAPTER (AE)



## THE ADAPTER SUPPLIED BY AGC

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

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