FCC Test Report

Report No.: AGC00665141103FE03

FCC ID : 2ADN5BL200

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Radio Adapter

BRAND NAME : BLINC

MODEL NAME : BL-200

CLIENT: Shanghai Blinc Electronic & Technology Co., Ltd.

DATE OF ISSUE : Nov.21, 2014

STANDARD(S) : FCC Part 15 Rules

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Page 2 of 65

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov.21, 2014	Valid	Original Report

TABLE OF CONTENTS

1.	. VERIFICATION OF CONFORMITY	5
2.	. GENERAL INFORMATION	6
	2.1. PRODUCT DESCRIPTION	6
	2.2. TABLE OF CARRIER FREQUENCYS	6
	2.3. RECEIVER INPUT BANDWIDTH	7
	2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE	7
	2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR	7
	2.6. RELATED SUBMITTAL(S) / GRANT (S)	8
	2.7. TEST METHODOLOGY	8
	2.8. SPECIAL ACCESSORIES	8
	2.9. EQUIPMENT MODIFICATIONS	8
3.	. MEASUREMENT UNCERTAINTY	9
4.	. DESCRIPTION OF TEST MODES	9
5.	. SYSTEM TEST CONFIGURATION	
	5.1. CONFIGURATION OF EUT SYSTEM	
	5.2. EQUIPMENT USED IN EUT SYSTEM	
	5.3. SUMMARY OF TEST RESULTS	
	. TEST FACILITY	
7.	. PEAK OUTPUT POWER	
	7.1. MEASUREMENT PROCEDURE	
	7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
	7.3. LIMITS AND MEASUREMENT RESULT	
8.	. 20DB BANDWIDTH	_
	8.1. MEASUREMENT PROCEDURE	
	8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
	8.3. LIMITS AND MEASUREMENT RESULTS	
9.	. CONDUCTED SPURIOUS EMISSION	
	9.1. MEASUREMENT PROCEDURE	
	9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
	9.3. MEASUREMENT EQUIPMENT USED	
	9.4. LIMITS AND MEASUREMENT RESULT	
1(0. RADIATED EMISSION	
	10.1. MEASUREMENT PROCEDURE	
	10.2. TEST SETUP	
	10.3. TEST RESULT (Worst Modulation: GFSK)	32

11. BAND EDGE EMISSION	45
11.1. MEASUREMENT PROCEDURE	45
11.2. TEST SET-UP	45
11.3. TEST RESULT (Worst Modulation: GFSK)	46
12. NUMBER OF HOPPING FREQUENCY	50
12.1. MEASUREMENT PROCEDURE	50
12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	50
12.3. MEASUREMENT EQUIPMENT USED	50
12.4. LIMITS AND MEASUREMENT RESULT	50
13. TIME OF OCCUPANCY (DWELL TIME)	51
13.1. MEASUREMENT PROCEDURE	51
13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	51
13.3. MEASUREMENT EQUIPMENT USED	51
13.4. LIMITS AND MEASUREMENT RESULT	51
14. FREQUENCY SEPARATION	54
14.1. MEASUREMENT PROCEDURE	54
14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	54
14.3. MEASUREMENT EQUIPMENT USED	54
14.4. LIMITS AND MEASUREMENT RESULT	54
15. FCC LINE CONDUCTED EMISSION TEST	56
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST	56
15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	56
15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	57
15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	57
15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	58
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	60
APPENDIX B: PHOTOGRAPHS OF EUT	61

Page 5 of 65

1. VERIFICATION OF CONFORMITY

Applicant	Shanghai Blinc Electronic & Technology Co., Ltd.
Address	Room 3099, 3rd Floor, No 1 Building, No.79 Aona Road, China (Shanghai)Pilot Free Trade Zone
Manufacturer	Shanghai Blinc Electronic & Technology Co., Ltd
Address	Room 3099, 3rd Floor, No 1 Building, No.79 Aona Road, China (Shanghai)Pilot Free Trade Zone
Product Designation	Radio Adapter
Brand Name	BLINC
Test Model	BL-200
Date of test	Nov.17, 2014 to Nov.20, 2014
Deviation	None
Condition of Test Sample	Normal
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, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Prepared By

Max Zhang Nov.21, 2014

Checked By

Kidd Yang Nov.21, 2014

Authorized By

Solger Zhang Nov.21, 2014

Page 6 of 65

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "Radio Adapter" 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	-0.61dBm(Max)
Bluetooth Version	V 3.0
Modulation	GFSK, π /4-DQPSK, 8-DPSK
Number of channels	79
Hardware Version	N/A
Software Version	N/A
Antenna Designation	PCB Antenna
Antenna Gain	0dBi
Power Supply	DC3.6V by Battery

Note: The USB port only used for charging and can't be used to transfer data with PC except PTT radio.

BT is active when charging.

EUT is also equipped with a 2.4 GHz Receiver for remote control purposes.

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	
	0	2402MHZ	
	1	2403MHZ	
	:	:	
	38	2440 MHZ	
2402~2480MHZ	2~2480MHZ 39	2441 MHZ	
	40	2442 MHZ	
	••	:	
	77	2479 MHZ	
	78	2480 MHZ	

Page 7 of 65

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 ehavior zation 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 ehavior:

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.

Page 8 of 65

2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ADN5BL200** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

Test has been referenced to the DA 00-705

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

Page 9 of 65

3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB Radiated measurement: +/- 3.2dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal Operating (BT)

Note:

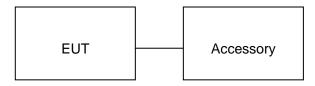
- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

Page 10 of 65

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Radio Adapter	BLINC	BL-200	EUT
2	PC	Dell	INSPIRON	A.E

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak Output Power	Compliant
§15.247	20 dB Bandwidth	Compliant
§15.247	Spurious Emission	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.247	Number of Hopping Frequency	Compliant
§15.247	Time of Occupancy	Compliant
§15.247	Frequency Separation	Compliant

Report No.: AGC00665141103FE03 Page 11 of 65

6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	B112-B113, Building 12, Baoan Building Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen, Guangdong, P.R.China
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003.

ALL TEST EQUIPMENT LIST

Description	Manufacturer	Model	Cal. Date	Cal. Due
Power Probe	R&S	URV5-Z2	07/30/2014	07/29/2015
RF attenuator	WEINSCHEL CORP	58-30-33	07/25/2014	07/24/2015
Spectrum Analyzer	Agilent	E4440A	07/16/2014	07/15/2015
EXA Signal Analyzer	Agilent	N9010A	10/24/2014	10/23/2015
Amplifier	EM	BBV 9718	07/30/2014	07/29/2015
HORN ANTENNA	Schwarzbeck	3117	08/17/2014	08/16/2015
HORN ANTENNA	A.H. SYSTEMS INC.	SAS-574	07/16/2014	07/15/2015
EMI Test Receiver	Rohde & Schwarz	ESCI	07/25/2014	07/24/2015
Bilogical Antenna	EMCO	3142C	08/17/2014	08/16/2015
LISN	R&S	ESH3-Z5	09/05/2014	09/04/2015
Loop Antenna	LAPLACE	RF300	07/30/2014	07/29/2015
Isolation Transformer	LETEAC	LTBK	07/16/2014	07/15/2015
RF CABLE	SUIRONG	9KHZ-30MHZ	07/15/2014	07/14/2015
RF CABLE	SUIRONG	30MHZ-18GHZ	07/15/2014	07/14/2015
Conduction Cable	Sat	CE1	07/15/2014	07/14/2015

Page 12 of 65

7. PEAK OUTPUT POWER

7.1. 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 ≥ RBW.
- 4. Record the maximum power from the Spectrum Analyzer.

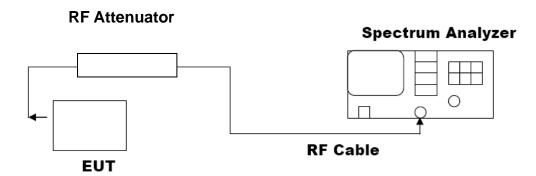
For average power test:

- 1. Connect EUT RF output port to power probe through an RF attenuator.
- 2. Connect the power probe to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.
- 5. The maximum peak power shall be less 125mW (21dBm).

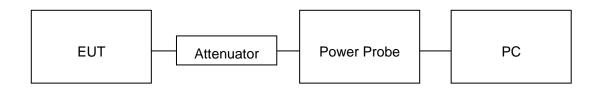
Note: The EUT was tested according to DA000705 for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



AVERAGE POWER SETUP



Page 13 of 65

7.3. LIMITS AND MEASUREMENT RESULT

	PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION						
Frequency (GHz)	Pass or Fail						
2.402	-5.74	-3.81	21	Pass			
2.441	-5.59	-0.61	21	Pass			
2.480	-3.93	-1.96	21	Pass			

CH₀



CH39



CH78



Report No.: AGC00665141103FE03 Page 15 of 65

PEAK OUTPUT POWER MEASUREMENT RESULT FOR II /4-DQPSK MODULATION							
Frequency (GHz) Average Power (dBm) Peak Power (dBm) Applicable Limits (dBm) Pass or Fail							
2.402	-5.27	-3.44	21	Pass			
2.441	-4.76	-2.82	21	Pass			
2.480	-5.09	-3.12	21	Pass			

CH₀



CH39



CH78



Report No.: AGC00665141103FE03 Page 17 of 65

PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION							
Frequency (GHz) Average Power (dBm) Peak Power (dBm) Applicable Limits (dBm) Pass or Fail							
2.402	-5.77	-3.84	21	Pass			
2.441	-2.45	-3.65	21	Pass			
2.480	-4.81	-2.89	21	Pass			



CH39



CH78



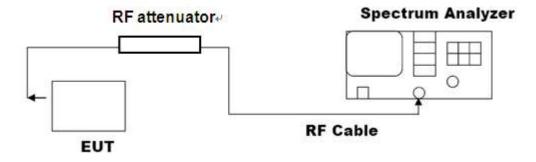
Page 19 of 65

8. 20DB BANDWIDTH

8.1. 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 ≥ 1% of the 20 dB bandwidth, VBW ≥ RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

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



8.3. LIMITS AND MEASUREMENT RESULTS

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESUL							
Applicable Limits		Measurement Result					
	Test Da	Criteria					
	Low Channel	0.784	PASS				
N/A	Middle Channel	0.791	PASS				
	High Channel	0.786	PASS				

Page 20 of 65

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



Page 21 of 65

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



Page 22 of 65

BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESUL						
Applicable Limite	Measurement Result					
Applicable Limits	Test Da	Criteria				
	Low Channel	1.255	PASS			
N/A	Middle Channel	1.254	PASS			
	High Channel	1.241	PASS			

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

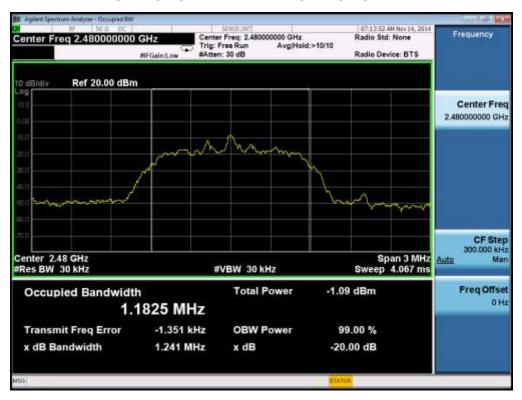


Page 23 of 65

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



Report No.: AGC00665141103FE03 Page 24 of 65

BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESUL							
Applicable Limite	Measurement Result						
Applicable Limits	Test Da	Criteria					
	Low Channel	1.258	PASS				
N/A	Middle Channel	1.267	PASS				
	High Channel	1.261	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

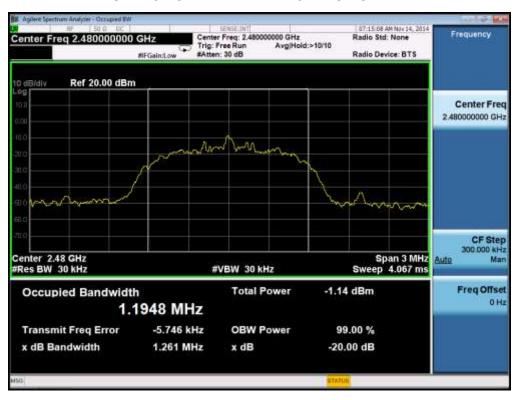


Page 25 of 65

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



Page 26 of 65

9. CONDUCTED SPURIOUS EMISSION

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 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 ≥ RBW; Sweep = auto; Detector function = peak.
- TIDIV 100 Kinz, VDVV 2 TIDIV, OWCOP duto, Detector
- 4. Set SPA Trace 1 Max hold, then View.

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

The same as described in section 8.2

9.3. MEASUREMENT EQUIPMENT USED

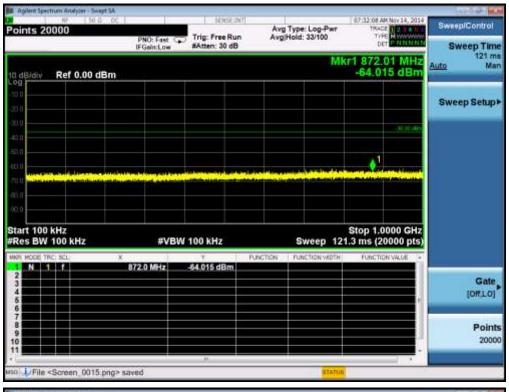
The same as described in section 6

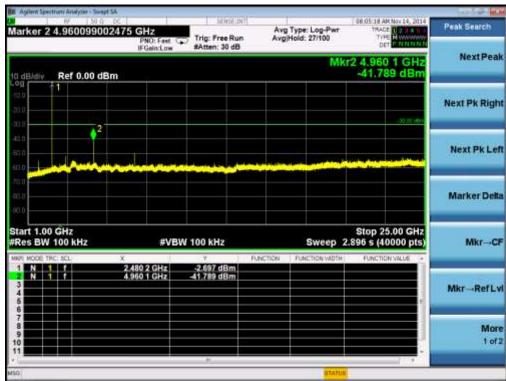
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT							
Applicable Limite	Measurement Result						
Applicable Limits	Test Data	Criteria					
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						
power that is produce by the intentional radiator							
shall be at least 20 dB below that in 100KHz							
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	PASS					
restricted bands, as defined in §15.205(a), must also							
comply with the radiated emission limits specified							
in§15.209(a))							

Page 27 of 65

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

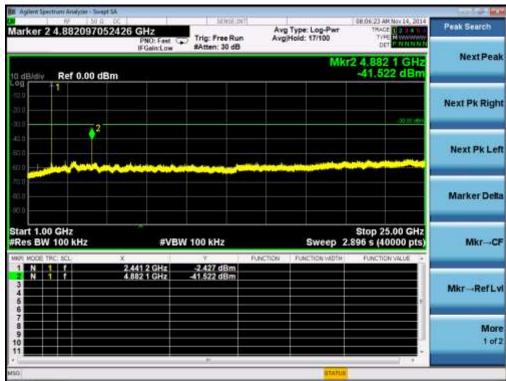




Page 28 of 65

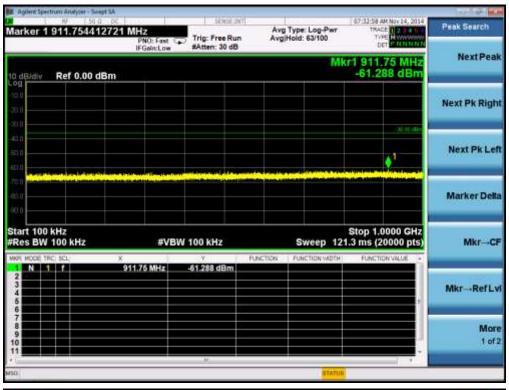
TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL

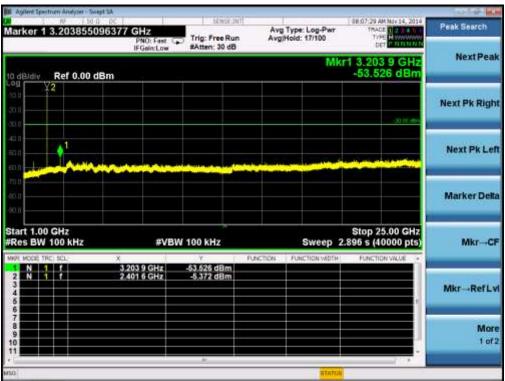




Page 29 of 65

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





Page 30 of 65

10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

Report No.: AGC00665141103FE03 Page 31 of 65

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

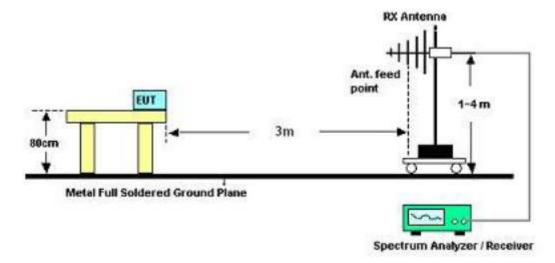
Spectrum Parameter	Setting				
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP				
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP				
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP				
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average				

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

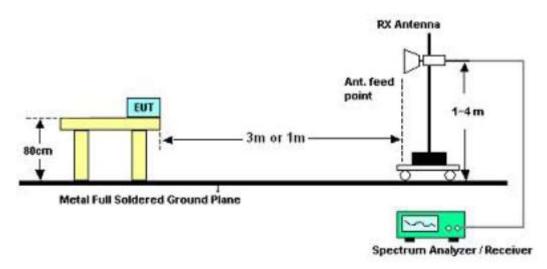
Page 32 of 65

10.2. TEST SETUP

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



10.3. TEST RESULT (Worst Modulation: GFSK)

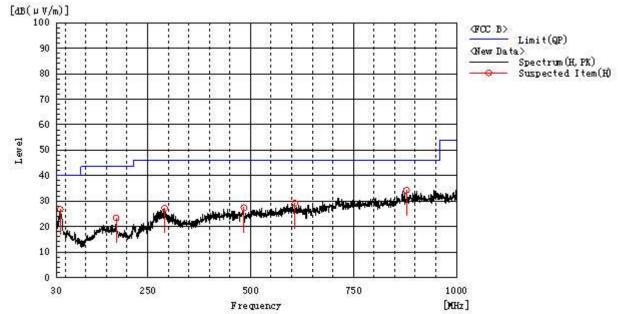
RADIATED EMISSION BELOW 30MHZ

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

Report No.: AGC00665141103FE03 Page 33 of 65

RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL

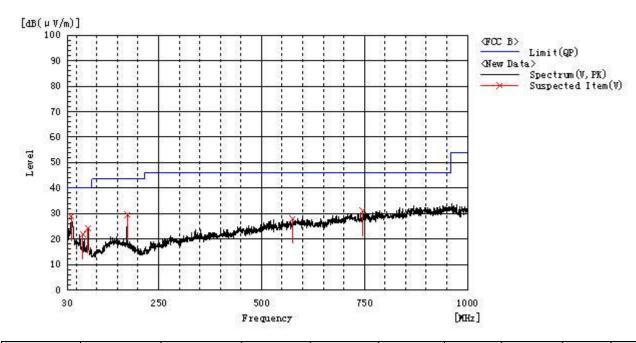


Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
38.245	Н	5.5	21.2	26.7	40.0	13.3	Pass	200.0	288.6
291.900	Н	11.6	15.6	27.2	46.0	18.8	Pass	100.0	179.9
483.960	Н	7.3	20.2	27.5	46.0	18.5	Pass	200.0	288.6
608.120	Н	6.1	23.1	29.2	46.0	16.8	Pass	100.0	179.9
878.750	Н	6.5	27.7	34.2	46.0	11.8	Pass	200.0	288.6
174.045	Н	8.9	14.5	23.4	43.5	20.1	Pass	100.0	179.9

RESULT: PASS

Page 34 of 65

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



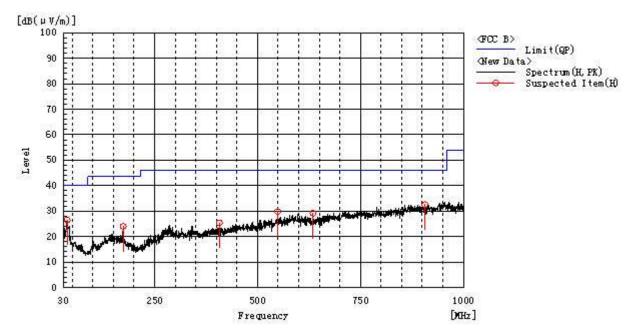
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
38.245	V	7.7	21.2	28.9	40.0	11.1	Pass	100.0	4.4
66.375	V	11.1	10.8	21.9	40.0	18.1	Pass	100.0	180.8
78.015	V	14.2	10.0	24.2	40.0	15.8	Pass	200.0	179.5
174.045	V	15.0	14.5	29.5	43.5	14.0	Pass	200.0	323.7
745.375	V	5.5	25.6	31.1	46.0	14.9	Pass	200.0	215.2
576.110	V	5.3	22.7	28.0	46.0	18.0	Pass	200.0	179.5

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.

RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL

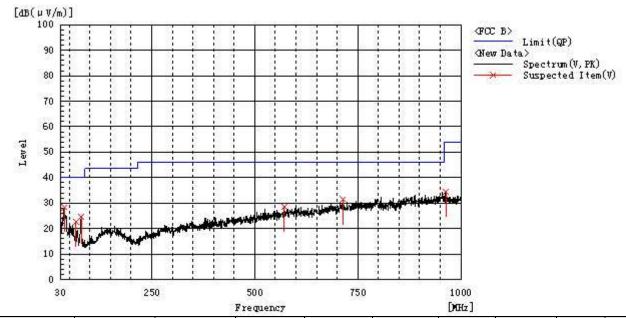


Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
38.245	Н	5.3	21.2	26.5	40.0	13.5	Pass	200.0	38.5
174.045	Н	9.5	14.5	24.0	43.5	19.5	Pass	100.0	287.6
634.795	Н	6.4	22.7	29.1	46.0	16.9	Pass	200.0	74.2
407.330	Н	6.7	18.7	25.4	46.0	20.6	Pass	100.0	71.2
548.950	Н	8.0	21.8	29.8	46.0	16.2	Pass	200.0	145.7
906.395	Н	4.8	27.7	32.5	46.0	13.5	Pass	200.0	180.7

RESULT: PASS

Page 36 of 65

RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



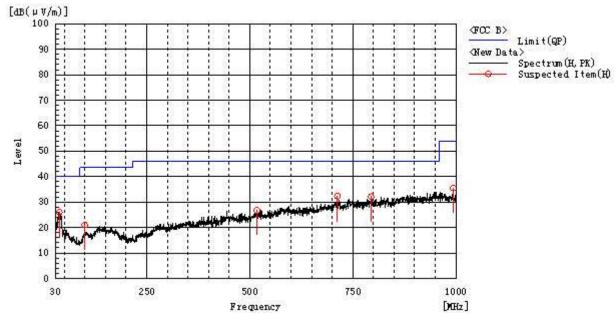
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
38.245	V	7.2	21.2	28.4	40.0	11.6	Pass	100.0	143.5
66.375	V	11.8	10.8	22.6	40.0	17.4	Pass	100.0	109.2
78.985	V	14.6	9.9	24.5	40.0	15.5	Pass	200.0	70.7
964.110	V	5.8	28.7	34.5	54.0	19.5	Pass	100.0	179.9
713.850	V	5.8	25.6	31.4	46.0	14.6	Pass	100.0	179.9
571.745	V	6.4	22.2	28.6	46.0	17.4	Pass	200.0	70.7

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.

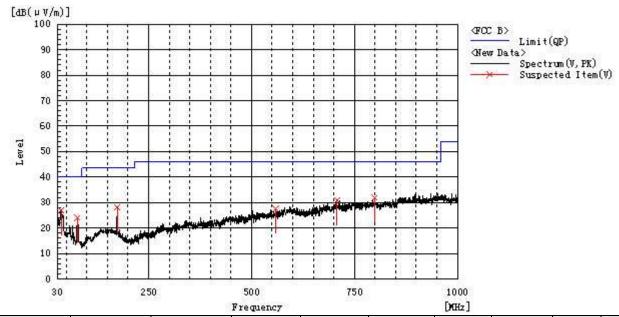
RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



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
38.245	Н	4.8	21.2	26.0	40.0	14.0	Pass	100.0	104.9
993.695	Н	7.1	28.4	35.5	54.0	18.5	Pass	200.0	73.6
712.395	Н	6.7	25.6	32.3	46.0	13.7	Pass	100.0	320.6
794.360	Н	6.1	26.1	32.2	46.0	13.8	Pass	100.0	320.6
517.425	Н	5.5	21.3	26.8	46.0	19.2	Pass	200.0	290.0
99.840	Н	10.6	10.4	21.0	43.5	22.5	Pass	200.0	290.0

Page 38 of 65

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



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
38.245	V	5.8	21.2	27.0	40.0	13.0	Pass	100.0	109.3
77.530	V	14.0	10.0	24.0	40.0	16.0	Pass	100.0	180.7
174.045	V	13.5	14.5	28.0	43.5	15.5	Pass	200.0	179.0
707.545	V	5.4	25.5	30.9	46.0	15.1	Pass	100.0	217.9
799.210	V	5.7	26.2	31.9	46.0	14.1	Pass	100.0	72.9
558.650	V	5.9	21.8	27.7	46.0	18.3	Pass	100.0	72.9

RESULT: PASS

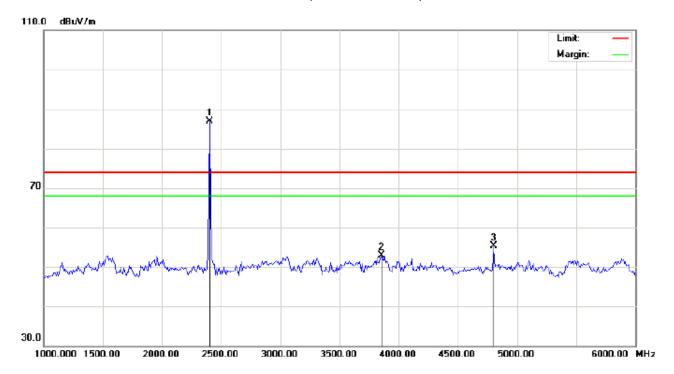
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

Page 39 of 65

RADIATED EMISSION ABOVE 1GHZ

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-LOW CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Radio Adapter Distance: 3m

M/N: BL-200

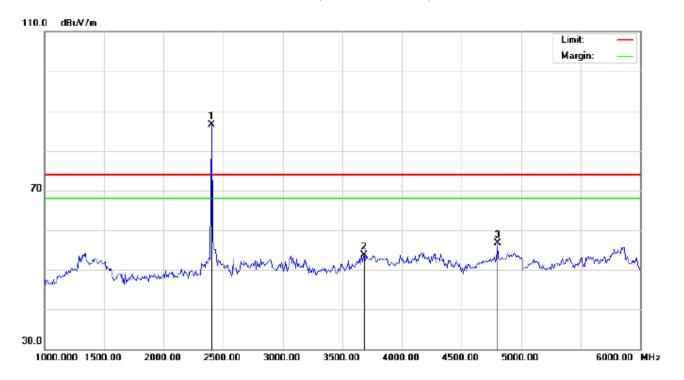
Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2400.000	76.68	10.32	87.00	74.00	13.00	peak			
2		3858.333	38.55	14.32	52.87	74.00	-21.13	peak			
3		4800.000	47.57	7.68	55.25	74.00	-18.75	peak			

Page 40 of 65

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-LOW CHANNEL -VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Radio Adapter Distance: 3m

M/N: BL-200

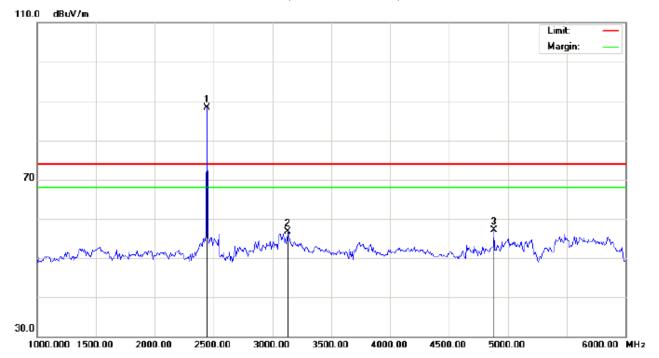
Mode: Low Channel TX

Note:

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	*	2400.000	76.14	10.32	86.46	74.00	12.46	peak			
2		3683.333	40.51	13.24	53.75	74.00	-20.25	peak			
3		4800.000	49.01	7.68	56.69	74.00	-17.31	peak			

Page 41 of 65

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Radio Adapter Distance: 3m

M/N: BL-200

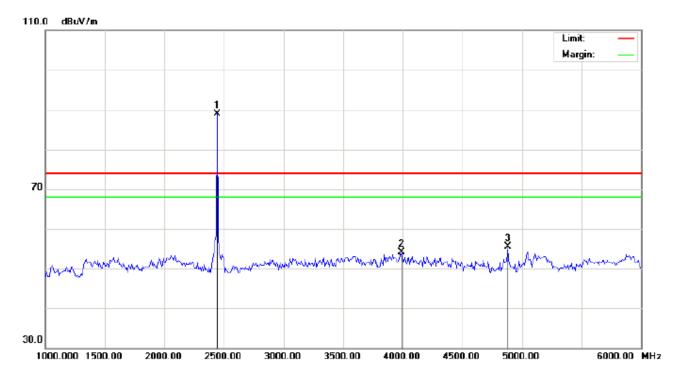
Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2441.667	77.88	10.37	88.25	74.00	14.25	peak			
2		3133.333	44.92	11.77	56.69	74.00	-17.31	peak			
3		4883.333	49.31	7.89	57.20	74.00	-16.80	peak			

Page 42 of 65

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) - MIDDLE CHANNEL -VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26 Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Radio Adapter Distance: 3m

M/N: BL-200

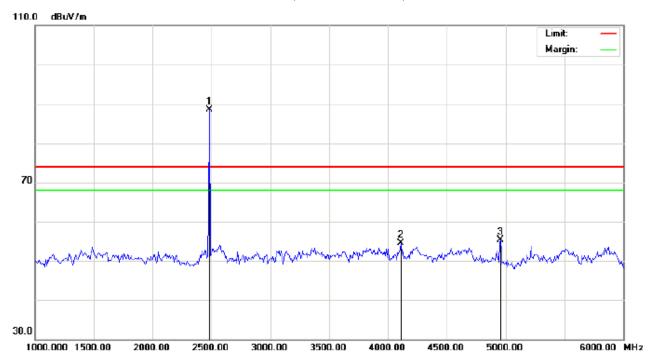
Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2441.667	78.51	10.37	88.88	74.00	14.88	peak			
2		3991.667	38.99	15.14	54.13	74.00	-19.87	peak			
3		4883.333	47.60	7.89	55.49	74.00	-18.51	peak			

Page 43 of 65

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-HIGH CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Radio Adapter Distance: 3m

M/N: BL-200

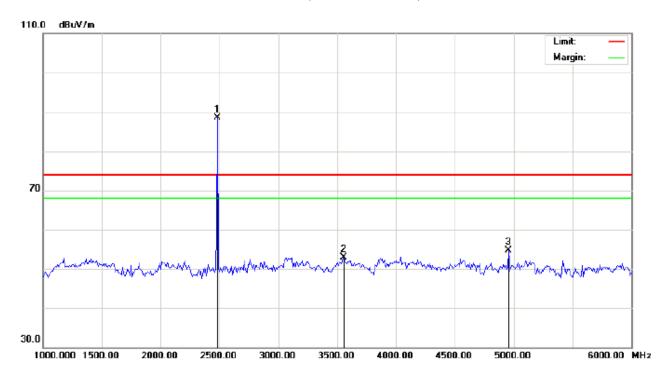
Mode: High Channel TX

Note:

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	*	2483.333	78.10	10.41	88.51	74.00	14.51	peak			
2		4108.333	41.07	13.39	54.46	74.00	-19.54	peak			
3		4958.333	47.22	8.09	55.31	74.00	-18.69	peak			

Page 44 of 65

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-HIGH CHANNEL -VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Radio Adapter Distance: 3m

M/N: BL-200

Mode: High Channel TX

Note:

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	*	2483.333	78.09	10.41	88.50	74.00	14.50	peak			
2		3558.333	40.45	12.47	52.92	74.00	-21.08	peak			
3		4958.333	46.62	8.09	54.71	74.00	-19.29	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.

Page 45 of 65

11. BAND EDGE EMISSION

11.1. MEASUREMENT PROCEDURE

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

11.2. TEST SET-UP

Radiated same as 10.2

Page 46 of 65

11.3. TEST RESULT (Worst Modulation: GFSK)

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



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Radio Adapter Distance: 3m

M/N: BL-200

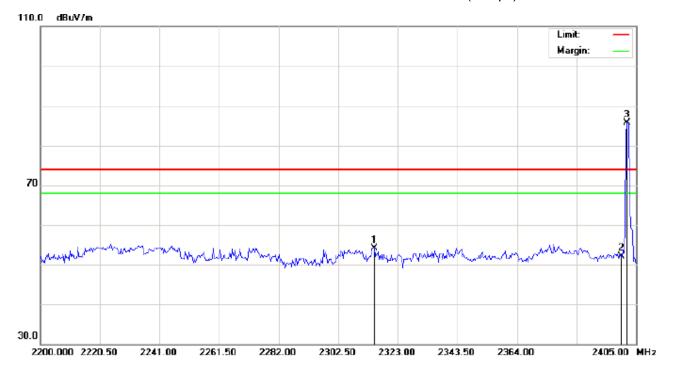
Mode:Low Channel TX

Note:

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		2325.733	44.65	10.24	54.89	74.00	-19.11	peak			
2		2400.000	44.32	10.32	54.64	74.00	-19.36	peak			
3	*	2401.925	76.78	10.32	87.10	74.00	13.10	peak			

Page 47 of 65

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



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Radio Adapter Distance: 3m

M/N: BL-200

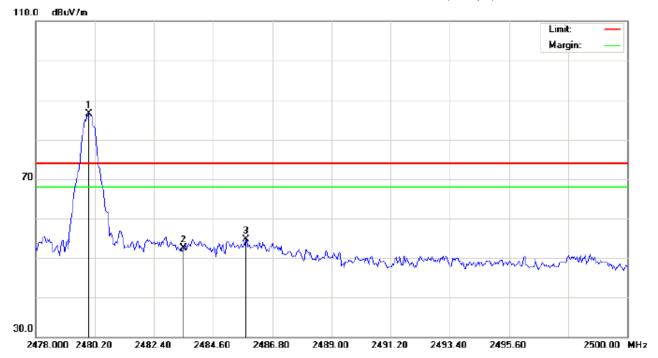
Mode:Low Channel TX

Note:

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		2314.800	43.97	10.23	54.20	74.00	-19.80	peak			
2		2400.000	41.72	10.32	52.04	74.00	-21.96	peak			
3	*	2401.925	75.32	10.32	85.64	74.00	11.64	peak			

Page 48 of 65

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



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Radio Adapter Distance: 3m

M/N: BL-200

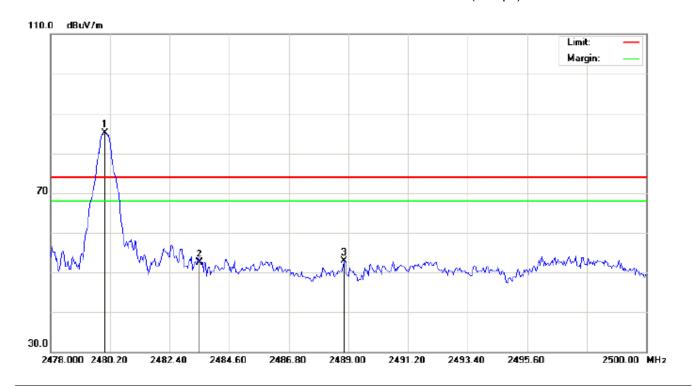
Mode:High Channel TX

Note:

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	*	2479.980	76.14	10.41	86.55	74.00	12.55	peak			
2		2483.500	42.10	10.41	52.51	74.00	-21.49	peak			
3		2485.810	44.28	10.41	54.69	74.00	-19.31	peak			

Page 49 of 65

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



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: AC 120V/60Hz Humidity: 60 %

EUT: Radio Adapter Distance: 3m

M/N: BL-200

Mode:High Channel TX

Note:

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	*	2480.017	74.65	10.41	85.06	74.00	11.06	peak			
2		2483.500	42.15	10.41	52.56	74.00	-21.44	peak			
3		2488.853	42.40	10.42	52.82	74.00	-21.18	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

Page 50 of 65

12. NUMBER OF HOPPING FREQUENCY

12.1. 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>=RBW.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

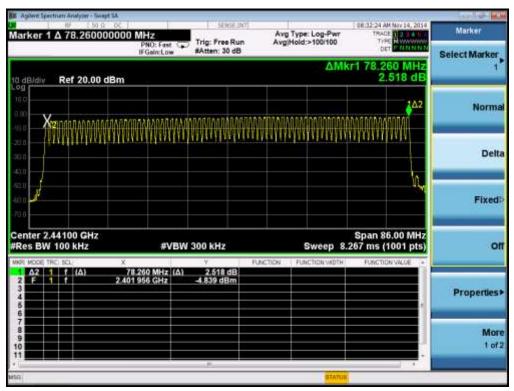
12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

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

TEST PLOT FOR NO. OF TOTAL CHANNELS



Page 51 of 65

13. TIME OF OCCUPANCY (DWELL TIME)

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

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

13.4. LIMITS AND MEASUREMENT RESULT

The Worst Case (3Mbps)

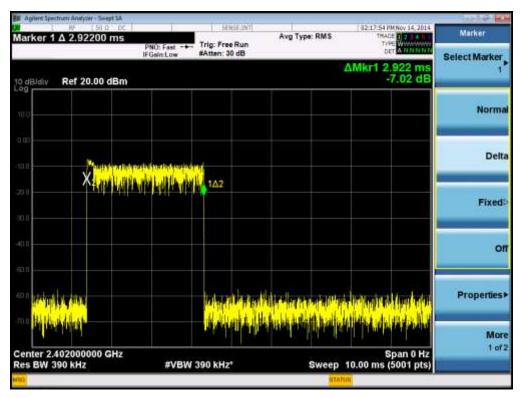
		` ;		
Channel	Time of Pulse for DH5 (ms)	Period Time (s)	Sweep Time (ms)	Limit (ms)
Low	2.922	31.6	311.68	400
Middle	2.934	31.6	312.96	400
High	2.932	31.6	312.75	400

Low Channel Time 2.922*(1600/6)/79*31.6=311.68ms Middle Channel Time 2.934*(1600/6)/79*31.6=312.96ms High Channel Time

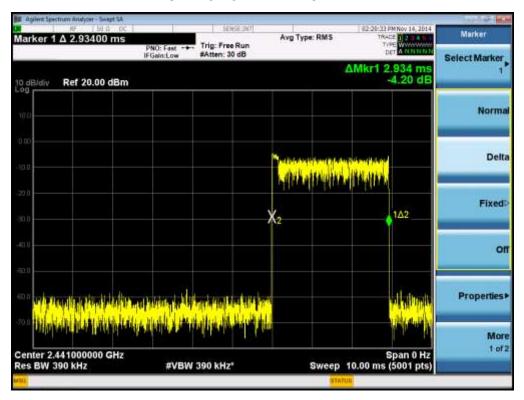
2.932*(1600/6)/79*31.6=312.75ms

Report No.: AGC00665141103FE03 Page 52 of 65

TEST PLOT OF LOW CHANNEL

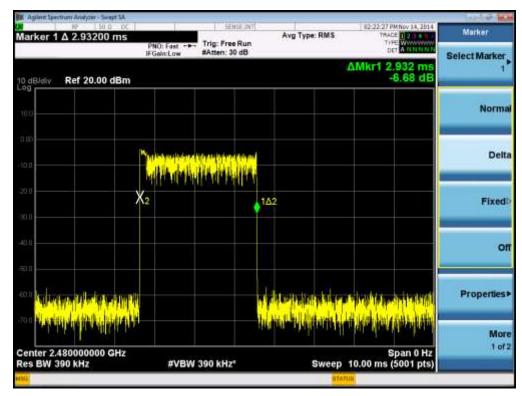


TEST PLOT OF MIDDLE CHANNEL



Page 53 of 65

TEST PLOT OF HIGH CHANNEL



Page 54 of 65

14. FREQUENCY SEPARATION

14.1. 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

14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

14.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

14.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT		
	KHz	KHz	Dage		
CH00-CH01	1005	>=25 KHz or 2/3 20 dB BW	Pass		

Page 55 of 65

TEST PLOT FOR FREQUENCY SEPARATION (3Mbps)



Page 56 of 65

15. FCC LINE CONDUCTED EMISSION TEST

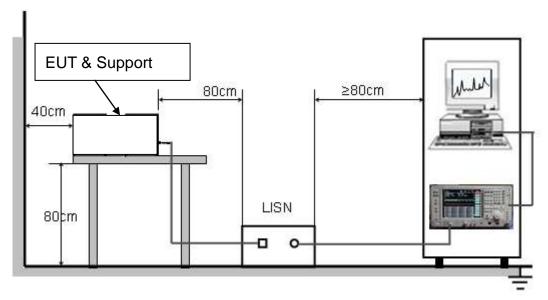
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



Page 57 of 65

15.3. 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 C63.4 (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 C63.4.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 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.

15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

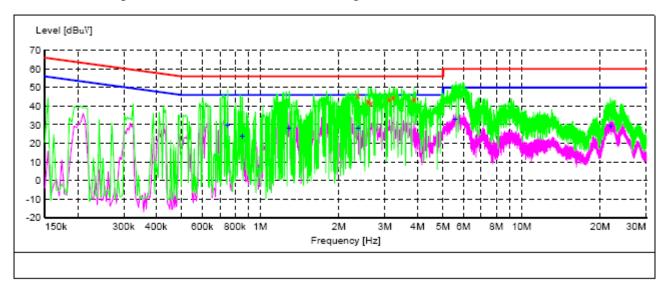
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

Page 58 of 65

15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 9k-30M Voltage



MEASUREMENT RESULT

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				211112
2.370000 2.590000 2.654000 3.118000 3.230000 3.870000	46.10 42.80 41.60 43.60 44.90 43.90	0.3 0.3 0.3 0.3 0.3	56 56 56 56 56	9.9 13.2 14.4 12.4 11.1 12.1	QP	L1 L1 L1 L1 L1	GND GND GND GND GND GND	ON ON ON ON

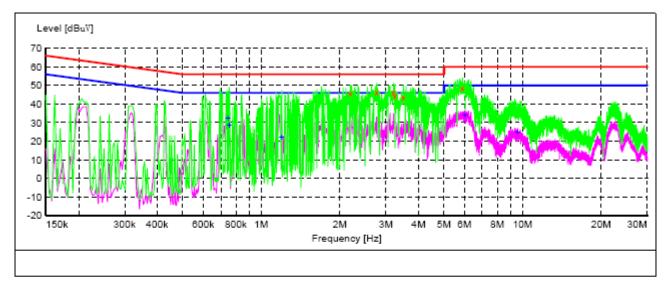
MEASUREMENT RESULT

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				DIAIL
0.750000 0.854000 1.290000 2.370000 5.582000 21.938000	30.00 23.90 28.00 28.20 32.80 29.00	0.2 0.2 0.2 0.3 0.4 0.8	46 46 46 46 50	16.0 22.1 18.0 17.8 17.2 21.0	AV AV AV AV AV	L1 L1 L1 L1 L1 L1	GND GND GND GND GND GND	ON ON ON ON ON

Page 59 of 65

Line Conducted Emission Test Line 2-N

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 9k-30M Voltage



MEASUREMENT RESULT

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
2.194000 2.770000 3.210000 3.242000 3.498000 5.890000	45.80 46.50 46.60 44.30 43.90 48.40	0.3 0.3 0.3 0.3 0.3	56 56 56 56 60	10.2 9.5 9.4 11.7 12.1 11.6	QP QP QP QP QP OP	N N N N N	GND GND GND GND GND GND	ON ON ON ON

MEASUREMENT RESULT

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				211122
0.746000	32.50	0.2	46	13.5	AV	N	GND	ON
0.754000	28.70	0.2	46	17.3	AV	N	GND	ON
1.198000	22.40	0.2	46	23.6	AV	N	GND	ON
6.026000	34.00	0.4	50	16.0	AV	N	GND	ON
9.562000	24.70	0.5	50	25.3	AV	N	GND	ON

Page 60 of 65

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



Page 61 of 65

APPENDIX B: PHOTOGRAPHS OF EUT

All VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



Page 64 of 65

RIGHT VIEW OF EUT

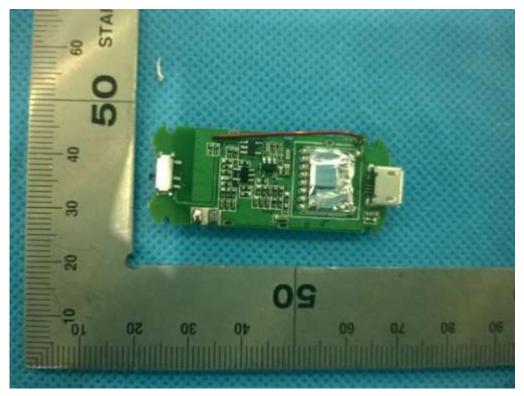


INTERNAL VIEW OF EUT-1

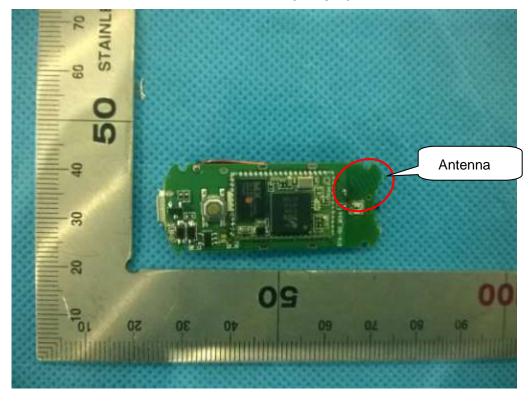


Page 65 of 65

INTERNAL VIEW OF EUT-2

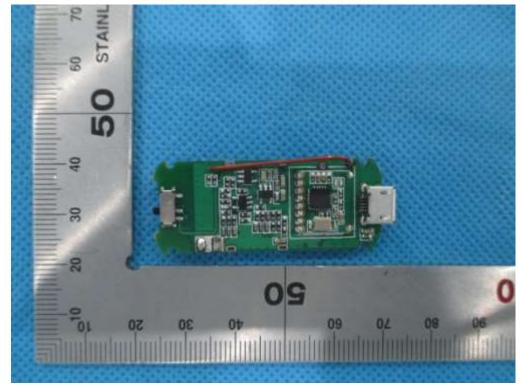


INTERNAL VIEW OF EUT-3



Page 66 of 65

INTERNAL VIEW OF EUT-4



----END OF REPORT----