



中国认可 国际互认 检测 TESTING CNASL5488 Page 1 of 60

FCC Test Report

Report No.: AGC00079180302FE03

FCC ID	: ATL-MFNECKAIR
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Wireless Neckband Headphones
BRAND NAME	: iLuv
MODEL NAME	: MFNECKAIRBK, MFNECKAIRSI, MFNECKAIRRG, 17LY85
CLIENT	: iLuv Creative Technology
DATE OF ISSUE	: Mar. 19, 2018
STANDARD(S) TEST PROCEDURE(S)	: FCC Part 15 Subpart C Section 15.249
REPORT VERSION	V1.0
	Compilance

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report No.: AGC00079180302FE03 Page 2 of 60

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Report Version Revise Time		Issued Date Valid Version		Notes	
V1.0		Mar. 19, 2018	Valid	Initial release	

Report Revise Record

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Report No.: AGC00079180302FE03 Page 3 of 60

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION 2.2. TABLE OF CARRIER FREQUENCYS	5
3. MEASUREMENT UNCERTAINTY	6
4. DESCRIPTION OF TEST MODES	
5. SYSTEM TEST CONFIGURATION	8
5.1. CONFIGURATION OF EUT SYSTEM 5.2. EQUIPMENT USED IN EUT SYSTEM 5.3. SUMMARY OF TEST RESULTS	8 8 9
6. TEST FACILITY	
7.TEST METHOD.	
8. TEST EQUIPMENT LIST	
9. RADIATED EMISSION	12
9.1TEST LIMIT. 9.2. MEASUREMENT PROCEDURE. 9.3. TEST SETUP. 9.4. TEST RESULT	12 13 15 17
10. BAND EDGE EMISSION	37
10.1. MEASUREMENT PROCEDURE 10.2 TEST SETUP 10.3 RADIATED TEST RESULT	37 38
11. 20DB BANDWIDTH	42
11.1. MEASUREMENT PROCEDURE 11.2. TEST SET-UP 11.3. LIMITS AND MEASUREMENT RESULTS	42 42 42
12. FCC LINE CONDUCTED EMISSION TEST	
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	48 49
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	
APPENDIX B: PHOTOGRAPHS OF EUT	54

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Report No.: AGC00079180302FE03 Page 4 of 60

Applicant	iLuv Creative Technology
Address	2 Harbor Park Drive Port Washington, NY 11050
Manufacturer	Jia Hua Li Dian Zi You Xian Gong Si
Address	NO 101, 201, BUILDING E, NEW INDUSTRIAL ZONE, SHENZHU ROAD, LIUYUE SHENKENG VILLAGE, HENGGANG, LONGGANG DISTRICT, SHENZHEN, CHINA.
Product Designation	Wireless Neckband Headphones
Brand Name	iLuv
Test Model	MFNECKAIRBK
Series Model	MFNECKAIRSI, MFNECKAIRRG, 17LY85
Difference Description	All the same except for the model name.
Date of test	Mar. 06, 2018 to Mar. 15, 2018
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

VERIFICATION OF CONFORMITY

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Jonhan Wand

Tested By

Jonhen Wang(Wang Yonghuan)

Mar. 15, 2018

west in

Reviewed By

Forrest Lei(Lei Yonggang)

Mar. 19, 2018

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Report No.: AGC00079180302FE03 Page 5 of 60

2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-6.18dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2 • • • • • • • • • • • • • • • • • • •
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, □8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	A5
Software Version	V4.2
Antenna Designation	PCB Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V battery

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
The sum of Color	0	2402MHz
NOU -		2403MHz
The termine	The Semante C. Francisco	
C Strandord Godal C C	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
The termine Company Company Company Company	C Station - C Station	
Good Contraction	77	2479 MHz
	78	2480 MHz

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3. MEASUREMENT UNCERTAINTY

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

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

		- The company and	Micestan
NO.		TEST MODE DESCRIPTION	
· And Cool	C The second Cloud C	Low channel GFSK	
2	30 30	Middle channel GFSK	The Alexander
3		High channel GFSK	· Therefore Court
4	Emplance C To School Com	Low channel π /4-DQPSK	
© 5 5		Middle channel π /4-DQPSK	在型 不包
6	Par Pa	High channel π /4-DQPSK	istal Com
7	The state of the s	BT Link with charging	SGC -
8 0	States of the second	BT Link	

4. DESCRIPTION OF TEST MODES

Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. The EUT used fully-charged battery when tested.

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Report No.: AGC00079180302FE03 Page 7 of 60

	C			Software Settin	g	The Wandance	The spinse
RE FC	CAssist 1.5						
r.	Parameter						_
	MODE	TX 💌					
					7		J.
	Channel	78 💙	Packet	type 2-DH3	Data Types	Pn9	 Contraction
	Transmit Power	10 💌	Норр	ing OFF	Serial Port	СОМЗ	<u>_</u> @
	2018-03-13_13:56 n COM3 succeed	:03				Send configuration	
2	2018-03-13_13:56	:03 Jata Types: Pn9					
Trans	smit Power : 10	Packet type: 2-	DH3				ľ
Send	d configuration info	ormation successfu	illy	Description:			
				1. Channel: range	0-78, correspondin	g frequency 2.402G	Hz-2.480GHZ
				2. Transmit Power	range 0-10, 0 is t	he minimum, maximu	ım 10
	- 0 ⁰						-1001
NC	C Bernard	ACC MARKEN	C ^C	A Barton Connection	C Received	NGC #	A A A A A A A A A A A A A A A A A A A
ACC.		ACC MARKED	CC.	A Barris and A Barris	C Received	AGC #	

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Report No.: AGC00079180302FE03 Page 8 of 60

5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

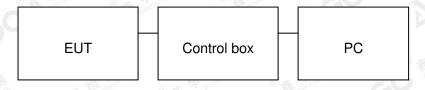
Configure 1: (Normal hopping)

EUT



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

Item	Equipment	Mfr/Brand	Mfr/Brand Model/Type No.		
The second	Wireless Neckband Headphones	iLuv	MFNECKAIRBK	EUT	
2	Battery	Shenzhen Youchi	YC68450PA	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	Control box GZUT		A.E	
5	Adapter	IPRO	NTR-S01	A.E	
6	USB Cable	N/A	1m unshielded	A.E	
7	USB Cable	N/A	0.6m unshielded	Accessory	

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Report No.: AGC00079180302FE03 Page 9 of 60

5.3. SUMMARY OF TEST RESULTS

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

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6. TEST FACILITY

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

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7. TEST METHOD

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

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
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	G ^M	Mar. 01, 2018	Feb. 28, 2020

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9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50 6	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency	Distance	Field Str	engths Limit
(MHz)	Meters	μ V/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	2
0.490 ~ 1.705	30	24000/F(kHz)	E
1.705 ~ 30	30	30	E The Country Country of Country
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 SCO	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(µV)/m

Remark: (1) Emission level dB μ V = 20 log Emission level μ V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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Report No.: AGC00079180302FE03 Page 13 of 60

9.2. MEASUREMENT PROCEDURE

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

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Report No.: AGC00079180302FE03 Page 14 of 60

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

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

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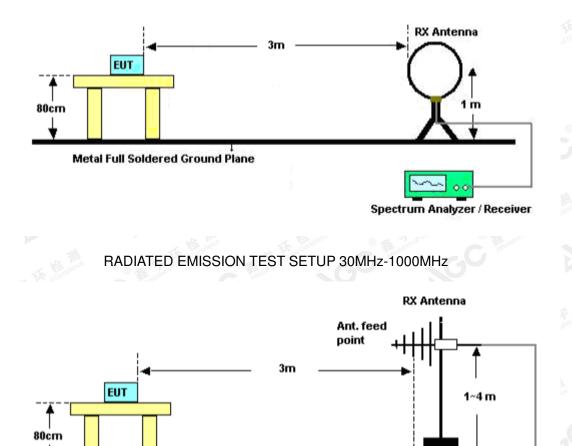




Report No.: AGC00079180302FE03 Page 15 of 60

9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



Metal Full Soldered Ground Plane

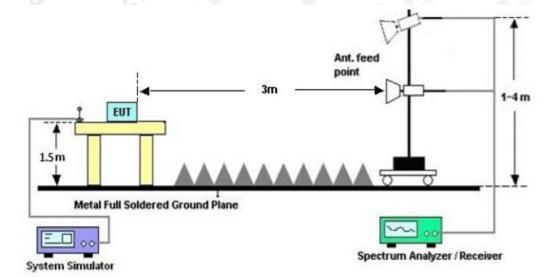
Spectrum Analyzer / Receiver

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Report No.: AGC00079180302FE03 Page 16 of 60



RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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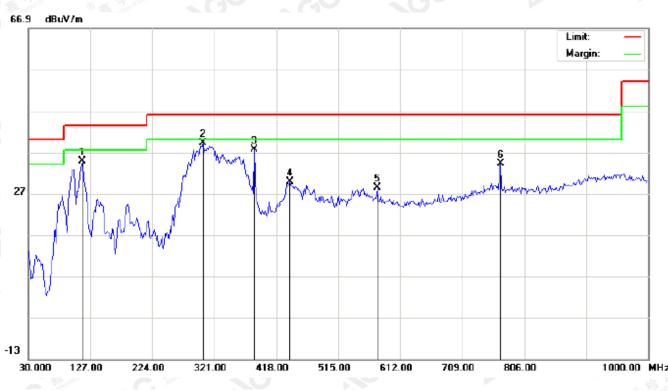
Report No.: AGC00079180302FE03 Page 17 of 60

9.4. TEST RESULT (Worst modulation: GFSK) FOR BR/EDR

RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz. **RADIATED EMISSION BELOW 1GHz**

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

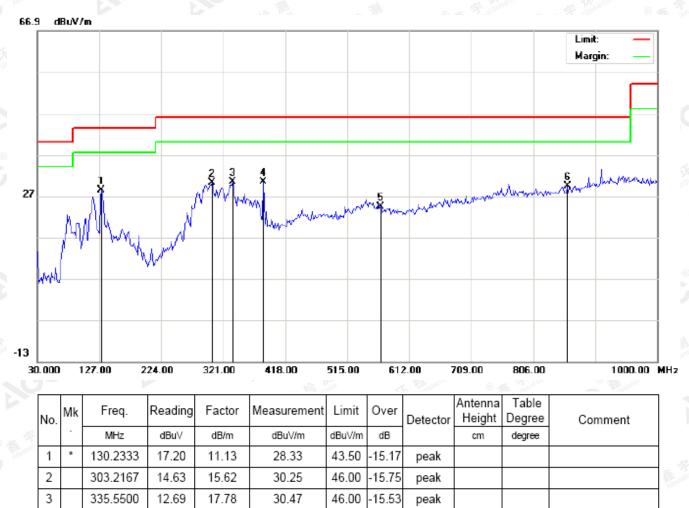


-	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
DVP2	1		114.0667	27.49	7.23	34.72	43.50	-8.78	peak			
	2	*	303.2167	23.67	15.62	39.29	46.00	-6.71	peak			
	3		384.0500	18.68	18.96	37.64	46.00	-8.36	peak			
	4		439.0167	9.64	20.26	29.90	46.00	-16.10	peak			
Γ	5		576.4333	5.23	23.14	28.37	46.00	-17.63	peak			
	6		768.8167	7.37	26.89	34.26	46.00	-11.74	peak			

RESULT: PASS

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Report No.: AGC00079180302FE03 Page 18 of 60



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

RESULT: PASS

4

5

6

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

18.96

22.56

27.55

30.38

24.39

29.44

11.42

1.83

1.89

384.0500

566.7333

859.3500

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

46.00 -15.62

46.00 -16.56

-21.61

46.00

peak

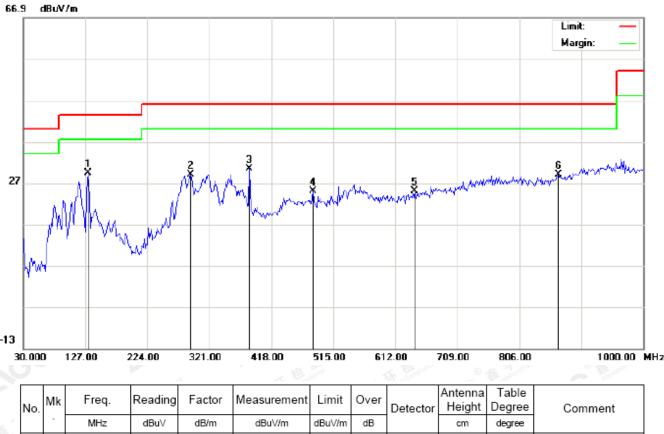
peak

peak

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Report No.: AGC00079180302FE03 Page 19 of 60



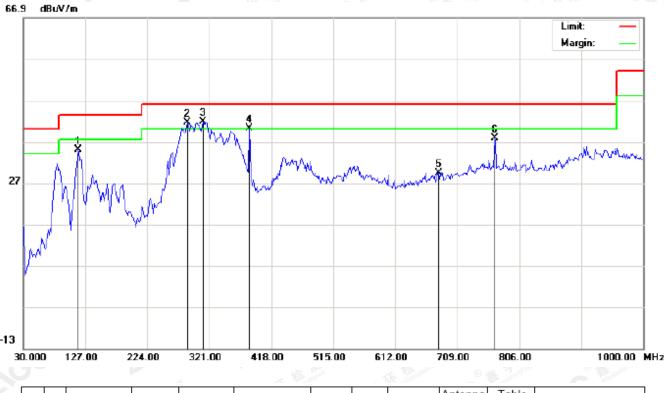
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment	
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree		
1	*	131.8500	17.54	11.80	29.34	43.50	-14.16	peak				
2		291.9000	13.85	15.17	29.02	46.00	-16.98	peak				1
3		384.0500	11.44	18.96	30.40	46.00	-15.60	peak				
4		482.6667	4.13	20.94	25.07	46.00	-20.93	peak				
5		642.7167	1.38	23.69	25.07	46.00	-20.93	peak				
6		867.4333	1.29	27.76	29.05	46.00	-16.95	peak				

RESULT: PASS

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Report No.: AGC00079180302FE03 Page 20 of 60



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

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ŝ.		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
Ś	1		115.6833	27.39	7.54	34.93	43.50	-8.57	peak			
	2	ļ	287.0500	23.52	18.02	41.54	46.00	-4.46	peak			
	3	*	311.3000	22.61	19.16	41.77	46.00	-4.23	peak			
	4	İ	384.0500	18.29	21.96	40.25	46.00	-5.75	peak			
	5		679.9000	1.82	27.65	29.47	46.00	-16.53	peak			
	6		767.2000	7.85	29.87	37.72	46.00	-8.28	peak			

RESULT: PASS

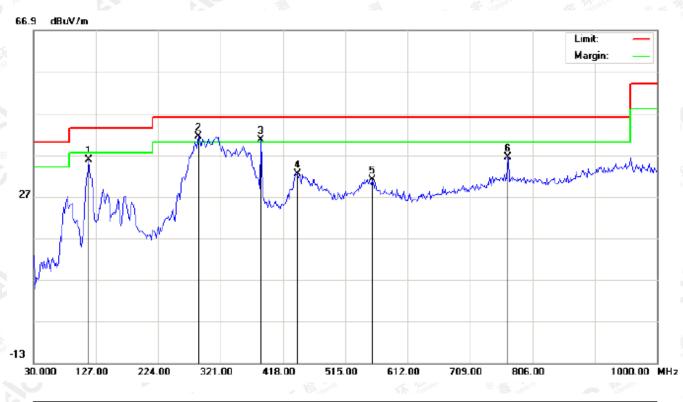
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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Report No.: AGC00079180302FE03 Page 21 of 60



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

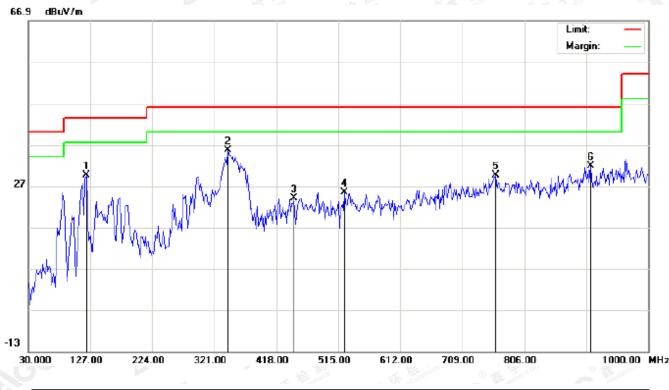
N	o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	1		115.6833	28.31	7.54	35.85	43.50	-7.65	peak			
2	2	*	287.0500	23.48	18.02	41.50	46.00	-4.50	peak			
3	3	İ	384.0500	18.73	21.96	40.69	46.00	-5.31	peak			
4	ł		440.6333	9.11	23.31	32.42	46.00	-13.58	peak			
Ę	5		557.0333	5.55	25.52	31.07	46.00	-14.93	peak			
6	5		767.2000	6.58	29.87	36.45	46.00	-9.55	peak			

RESULT: PASS

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Report No.: AGC00079180302FE03 Page 22 of 60



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

N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
10		-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
	1		120.5333	19.58	10.08	29.66	43.50	-13.84	peak			
Γ	2	*	342.0167	14.36	21.21	35.57	46.00	-10.43	peak			
Γ	3		445.4833	0.58	23.45	24.03	46.00	-21.97	peak			
Γ	4		524.7000	0.58	24.80	25.38	46.00	-20.62	peak			
ſ	5		760.7333	-0.17	29.78	29.61	46.00	-16.39	peak			
Ĩ	6		909.4667	-0.13	31.87	31.74	46.00	-14.26	peak			

RESULT: PASS

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

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

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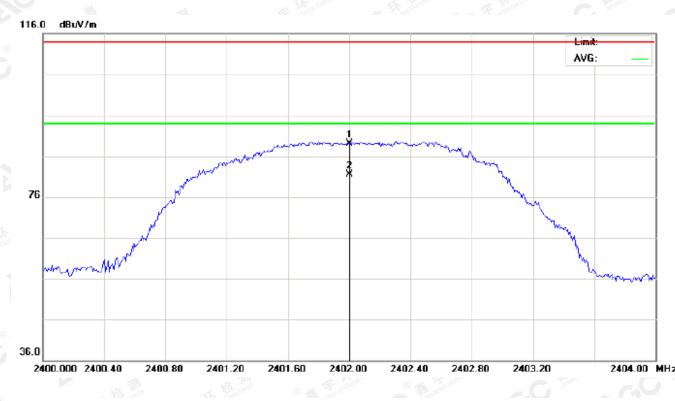


Report No.: AGC00079180302FE03 Page 23 of 60

RADIATED EMISSION ABOVE 1GHz (Worst modulation: GFSK) FOR BR/EDR

For Fundamental

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

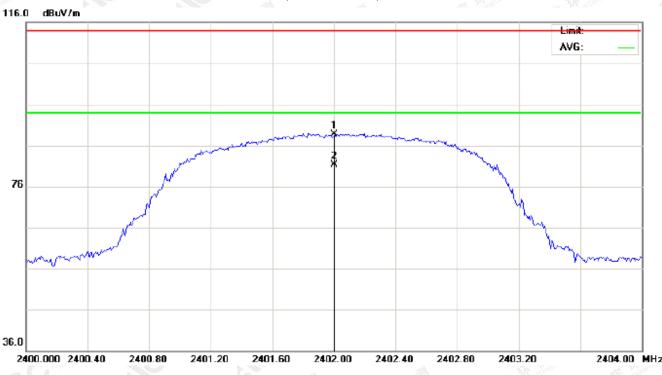


No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2402.000	78.70	10.32	89.02	114.00	-24.98	peak			
2	*	2402.000	71.20	10.32	81.52	94.00	-12.48	AVG	100	311	

RESULT: PASS

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

N	lo.	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	78.33	10.32	88.65	114.00	-25.35	peak			
	2	*	2402.000	70.89	10.32	81.21	94.00	-12.79	AVG	100	145	

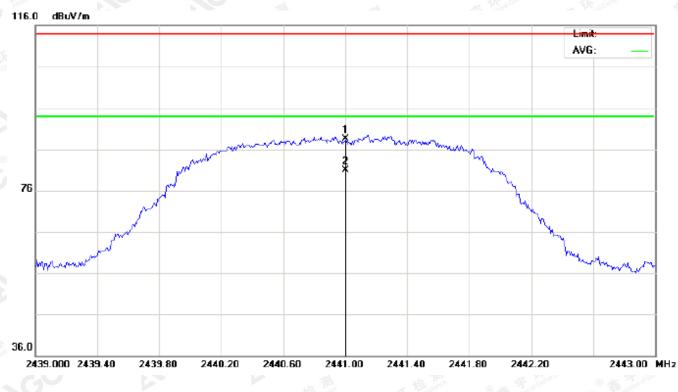
RESULT: PASS

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Report No.: AGC00079180302FE03 Page 25 of 60



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

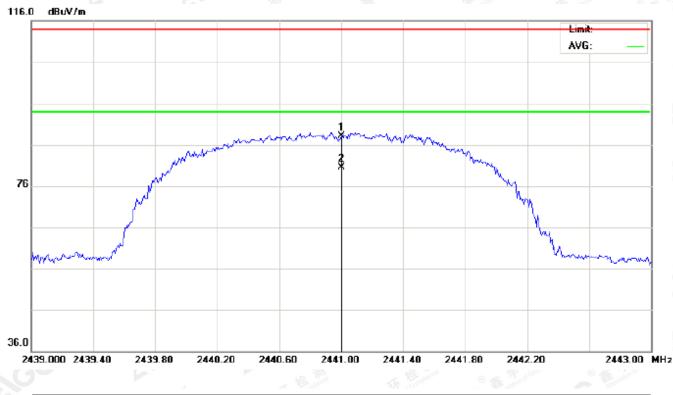
r	۷o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ŝ		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
20	1		2441.000	78.13	10.36	88.49	114.00	-25.51	peak			
	2	*	2441.000	70.63	10.36	80.99	94.00	-13.01	AVG	100	314	

RESULT: PASS

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Report No.: AGC00079180302FE03 Page 26 of 60



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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
10 I	•	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2441.000	77.77	10.36	88.13	114.00	-25.87	peak			
2	*	2441.000	70.22	10.36	80.58	94.00	-13.42	AVG	100	111	

RESULT: PASS

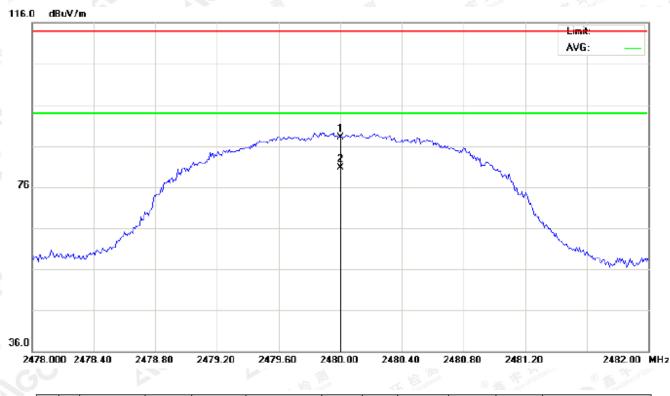
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Report No.: AGC00079180302FE03 Page 27 of 60



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

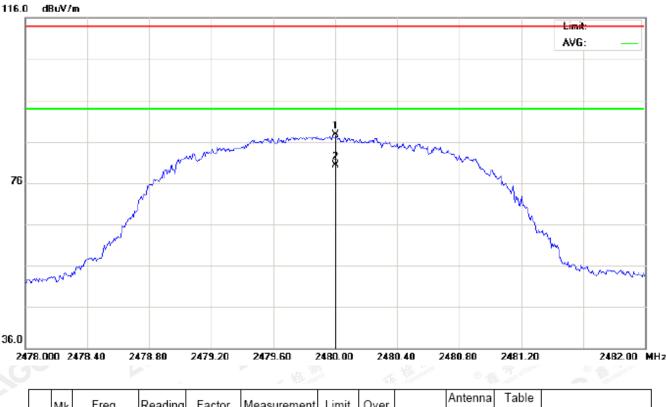
Table Antenna Freq. Reading Factor Measurement Limit Over Mk Height Degree No. Detector Comment MHz dBu∨ dB/m dBuV/m dBuV/m dB cm degree 2480.000 77.74 10.41 88.15 114.00 25.85 1 peak 2480.000 AVG 2 70.24 10.41 80.65 94.00 13.35 100 313

RESULT: PASS

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Report No.: AGC00079180302FE03 Page 28 of 60



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

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
10		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1		2480.000	77.32	10.41	87.73	114.00	-26.27	peak			
	2	*	2480.000	69.88	10.41	80.29	94.00	-13.71	AVG	100	112	

RESULT: PASS

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

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

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Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.70	10.32	89.02	114	-24.98	Horizontal
2402	78.33	10.32	88.65	114	-25.35	Vertical
2441	78.13	10.36	88.49	114 🐋	-25.51	Horizontal
2441	77.77	10.36	88.13	114	-25.87	Vertical
2480	77.74	10.41	88.15	114	-25.85	Horizontal
2480	77.32	10.41	87.73	114	-26.27	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	71.20	10.32	81.52	94 💿	-12.48	Horizontal
2402	70.89	10.32	81.21	94	-12.79	Vertical
2441	70.63	10.36	80.99	94	-13.01	Horizontal
2441	70.22	10.36	80.58	94	-13.42	Vertical
2480	70.24	10.41	80.65	94	-13.35	Horizontal
2480	69.88	10.41	80.29	94	-13.71	Vertical

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Report No.: AGC00079180302FE03 Page 30 of 60

2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.16	10.32	88.48	114	-25.52	Horizontal
2402	77.82	10.32	88.14	114	-25.86	Vertical
2441	77.57	10.36	87.93	114	-26.07	Horizontal
2441	77.24	10.36	87.60	114	-26.4 ,	Vertical
2480	77.23	10.41	87.64	114	-26.36	Horizontal
2480	76.76	10.41	87.17	114	-26.83	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	70.65	10.32	80.97	94	-13.03	Horizontal
2402	70.35	10.32	80.67	94	-13.33	Vertical
2441	70.09	10.36	80.45	94	-13.55	Horizontal
2441	69.67	10.36	80.03	94	-13.97	Vertical
2480	69.71	10.41	80.12	94	-13.88	Horizontal
2480	69.36	10.41	79.77	94	-14.23	Vertical

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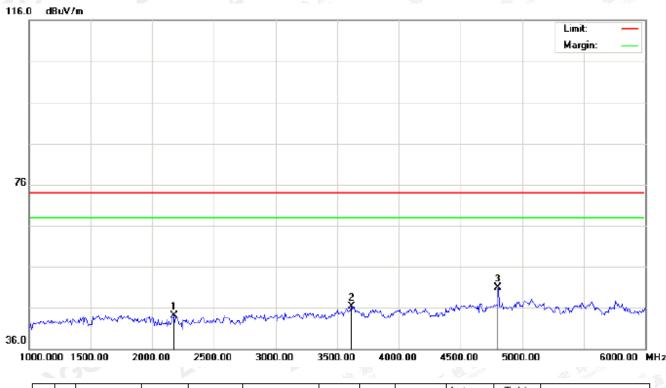
Report No.: AGC00079180302FE03 Page 31 of 60

(Worst modulation: GFSK)

FOR BR/EDR

For Harmonics

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2175.000	34.00	10.07	44.07	74.00	-29.93	peak			
2		3616.667	33.55	12.83	46.38	74.00	-27.62	peak			
3	*	4804.000	43.21	7.69	50.90	74.00	-23.10	peak			

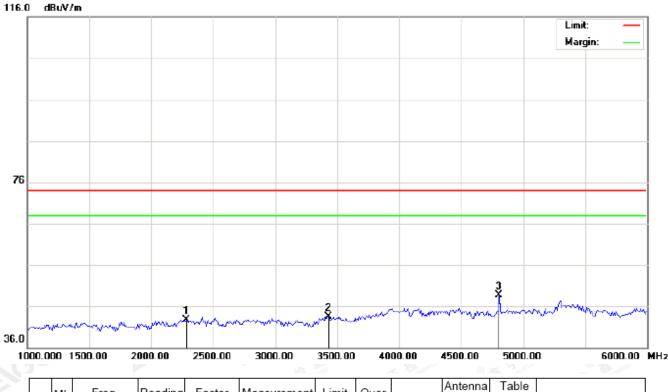
RESULT: PASS

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Report No.: AGC00079180302FE03 Page 32 of 60



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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2283.333	32.41	10.19	42.60	74.00	-31.40	peak			
2		3433.333	31.54	12.05	43.59	74.00	-30.41	peak			
3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

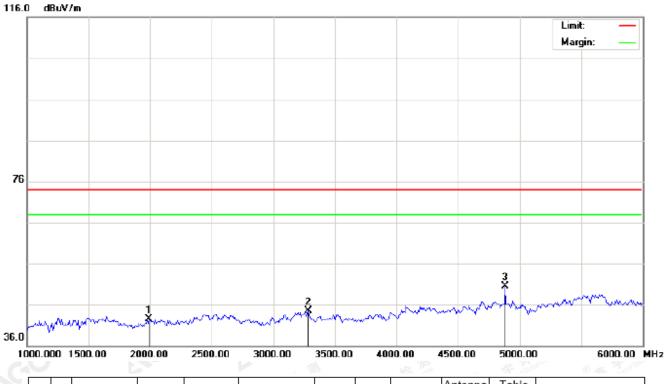
RESULT: PASS

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Report No.: AGC00079180302FE03 Page 33 of 60



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

N	D. N	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1			1991.667	32.70	9.79	42.49	74.00	-31.51	peak			
2	2		3283.333	32.67	11.91	44.58	74.00	-29.42	peak			
3	;	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

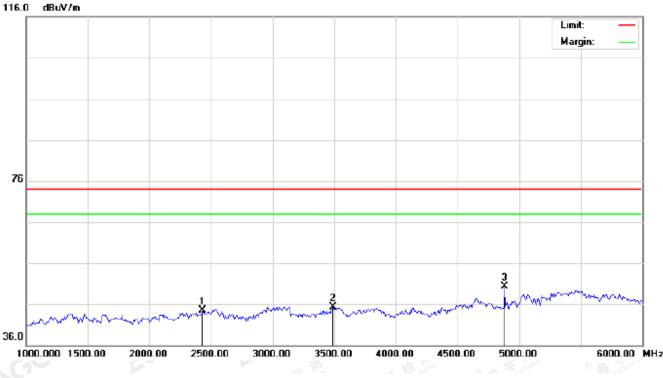
RESULT: PASS

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Report No.: AGC00079180302FE03 Page 34 of 60



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

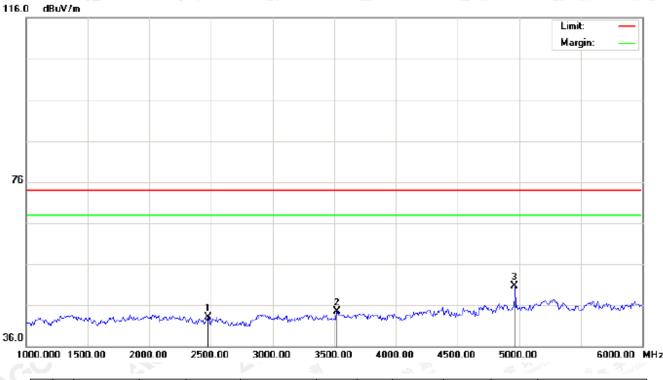
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2433.333	34.05	10.36	44.41	74.00	-29.59	peak			
2		3491.667	33.15	12.10	45.25	74.00	-28.75	peak			
3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

RESULT: PASS

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2475.000	32.73	10.40	43.13	74.00	-30.87	peak			
2		3525.000	32.29	12.26	44.55	74.00	-29.45	peak			
3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak			

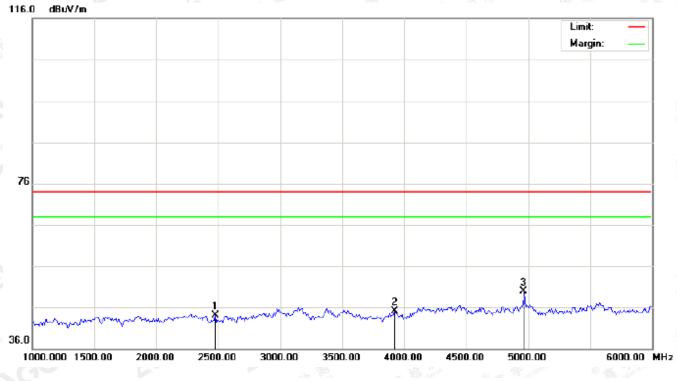
RESULT: PASS

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Report No.: AGC00079180302FE03 Page 36 of 60



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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2475.000	33.61	10.40	44.01	74.00	-29.99	peak			
2		3925.000	30.33	14.73	45.06	74.00	-28.94	peak			
3	*	4960.000	41.91	8.09	50.00	74.00	-24.00	peak			

RESULT: PASS

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

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

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

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Report No.: AGC00079180302FE03 Page 37 of 60

10. BAND EDGE EMISSION

10.1. MEASUREMENT PROCEDURE

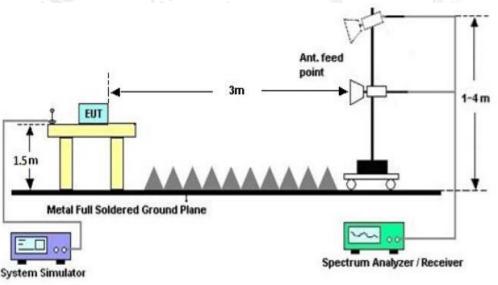
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

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

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

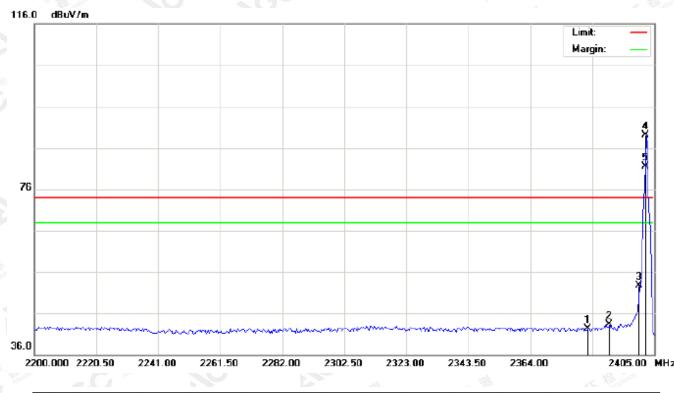
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10.3 RADIATED TEST RESULT (Worst modulation: GFSK) FOR BR/EDR

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



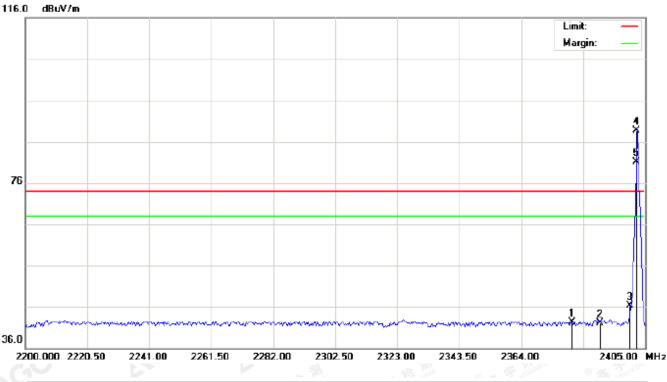
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
	1		2383.133	32.09	10.30	42.39	74.00	-31.61	peak			
6	2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
2	3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
	4	*	2402.000	78.69	10.32	89.01	74.00	15.01	peak			
No.	5	Х	2402.000	71.19	10.32	81.51	74.00	7.51	AVG	100	301	

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Report No.: AGC00079180302FE03 Page 39 of 60



TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

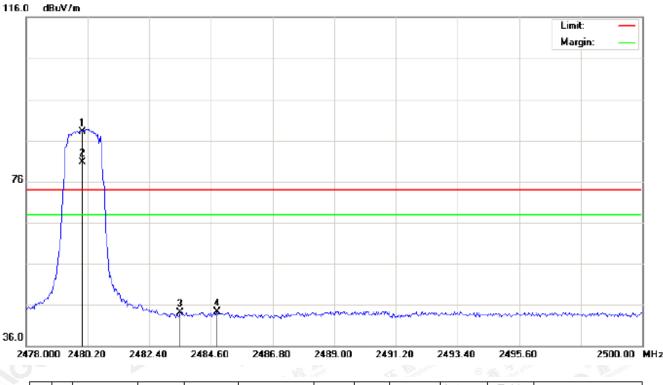
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2380.741	32.03	10.30	42.33	74.00	-31.67	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	78.31	10.32	88.63	74.00	14.63	peak			
5	Х	2402.000	70.88	10.32	81.20	74.00	7.20	AVG	100	101	

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Report No.: AGC00079180302FE03 Page 40 of 60



TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

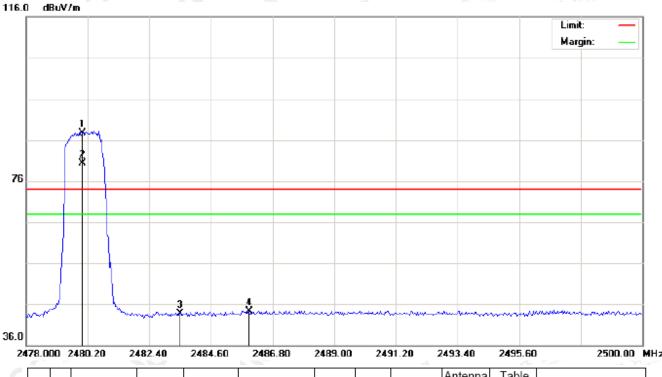
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
R		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
atte	1	*	2480.000	77.72	10.41	88.13	74.00	14.13	peak			
	2	Х	2480.000	70.22	10.41	80.63	74.00	6.63	AVG	100	314	
	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
	4		2484.820	33.86	10.41	44.27	74.00	-29.73	peak			

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Report No.: AGC00079180302FE03 Page 41 of 60



TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		•	MHz	dBu∨	dB/m	dBu∨/m	dBuV/m	dB		cm	degree	
8	1	*	2480.000	77.30	10.41	87.71	74.00	13.71	peak			
8	2	Х	2480.000	69.85	10.41	80.26	74.00	6.26	AVG	100	124	
	3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
	4		2485.957	33.98	10.41	44.39	74.00	-29.61	peak			

RESULT: PASS

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

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

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

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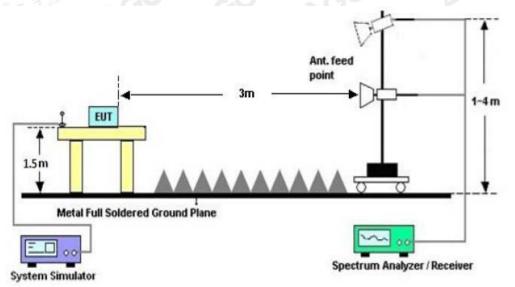
Report No.: AGC00079180302FE03 Page 42 of 60

11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

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

11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

FOR BR/EDR

BLUET	BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result										
Applicable Limits		Test Data (MHz)									
		99%OBW (MHz)	-20dB BW(MHz)	Result							
The Constant of American	Low Channel	0.913	1.074	PASS							
N/A	Middle Channel	0.893	1.041	PASS							
THE AND A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER OF A DECEMBER	High Channel	0.919	1.066	PASS							

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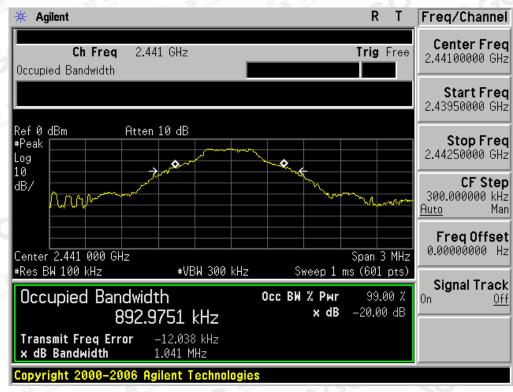


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT											
		Measure	ement Result								
Applicable Limits		Desult									
		99%OBW (MHz)	-20dB BW(MHz)	Result							
The Barrens The Barrens	Low Channel	1.210	1.365	PASS							
N/A	Middle Channel	1.206	1.345	PASS							
SGC	High Channel	1.211	1.368	PASS							

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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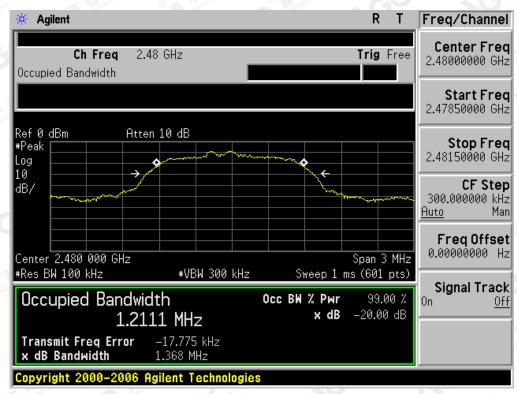
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

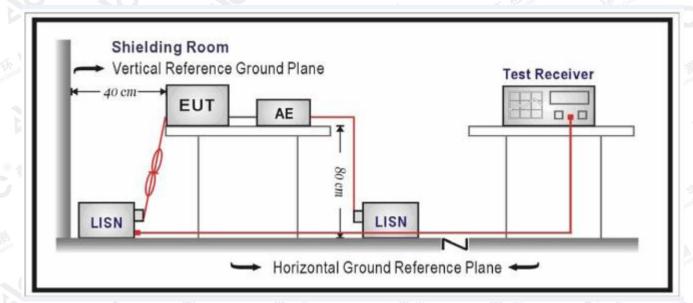
Francisco	Maximum RF	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	56	46						
5MHz~30MHz	60 60	50						

Note:

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

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

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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Report No.: AGC00079180302FE03 Page 48 of 60

12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter or PC which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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.

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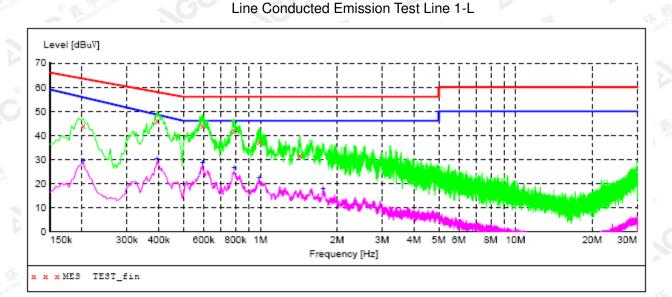
Report No.: AGC00079180302FE03 Page 49 of 60

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

2



MEASUREMENT RESULT: "TEST fin"

2018/3/13 17:	19						
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.202000 0.394000 0.594000 0.790000 0.990000 1.426000	44.20 46.00 43.90 41.90 37.20 31.70	11.4 11.4 11.4 11.4 11.3 11.3	64 58 56 56 56	19.3 12.0 12.1 14.1 18.8 24.3	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO FLO

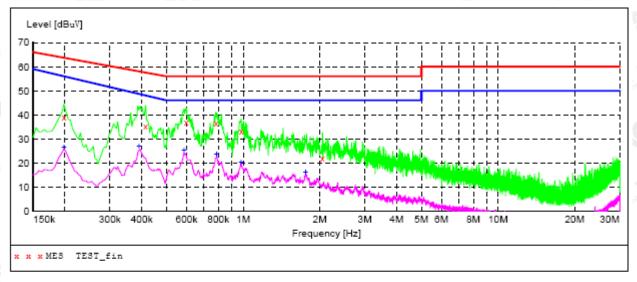
MEASUREMENT RESULT: "TEST fin2"

2018/3/13 17:	19						
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.202000 0.394000 0.594000	29.40 30.50 28.50	$11.4 \\ 11.4 \\ 11.4 \\ 11.4$	56 49 46	26.4 18.1 17.5	AV	L1 L1 L1	FLO FLO FLO
0.790000 0.990000 1.762000	26.60 22.30 17.70	11.4 11.3 11.3	46 46 46		AV AV AV	L1 L1 L1	FLO FLO FLO

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Report No.: AGC00079180302FE03 Page 50 of 60



Line Conducted Emission Test Line 2-N

MEASUREMENT RESULT: "TEST fin"

2018/3/13 17:26 Frequency Level Transd Limit Margin Detector Line ΡE MHz dBu∛ dB dBuV dB 0.198000 39.20 11.4 64 24.5 QP Ν FLO 0.414000 35.30 11.4 58 22.3 QP Ν FLO Ν 0.598000 36.80 56 19.2 FLO 11.4 QP 19.5 Ν 0.782000 36.50 11.4 56 QP FLO 22.9 0.982000 33.10 11.3 56 QP Ν FLO 2.046000 11.3 56 33.9 Ν FLO 22.10 OP

MEASUREMENT RESULT: "TEST fin2"

2018/3/13 17 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.198000	26.70	11.4	56	29.3	AV	N	FLO
0.390000	27.00	11.4	49	21.7	AV	N	FLO
0.586000	25.40	11.4	46	20.6	AV	Ν	FLO
0.786000	23.80	11.4	46	22.2	AV	Ν	FLO
0.982000	20.50	11.3	46	25.5	AV	Ν	FLO
1.758000	16.30	11.3	46	29.7	AV	Ν	FLO

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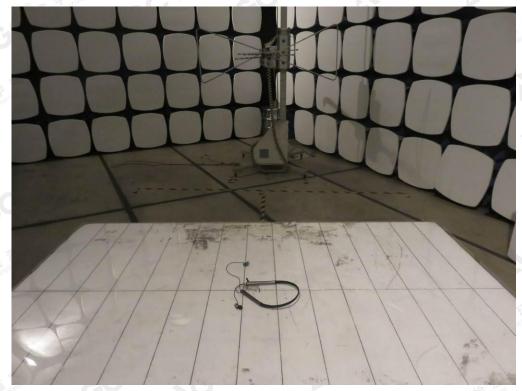


Report No.: AGC00079180302FE03 Page 51 of 60

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



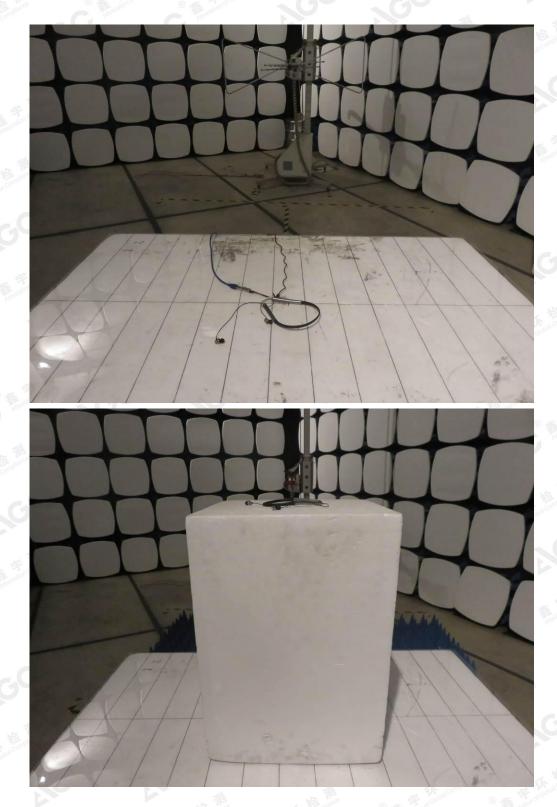
FCC RADIATED EMISSION TEST SETUP



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Report No.: AGC00079180302FE03 Page 52 of 60

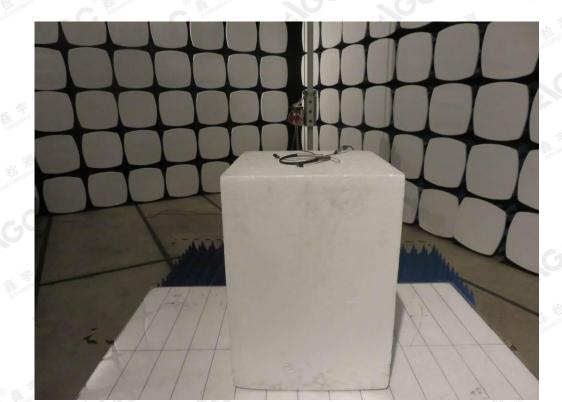


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Report No.: AGC00079180302FE03 Page 53 of 60



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Report No.: AGC00079180302FE03 Page 54 of 60

APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT







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Report No.: AGC00079180302FE03 Page 55 of 60

BOTTOM VIEW OF EUT

FRONT VIEW OF EUT



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Report No.: AGC00079180302FE03 Page 56 of 60

BACK VIEW OF EUT



LEFT VIEW OF EUT



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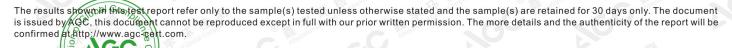


Report No.: AGC00079180302FE03 Page 57 of 60

RIGHT VIEW OF EUT



VIEW OF EUT (PORT)







Report No.: AGC00079180302FE03 Page 58 of 60

OPEN VIEW OF EUT



VIEW OF BATTERY



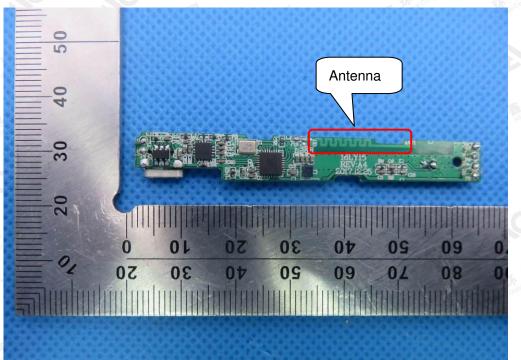
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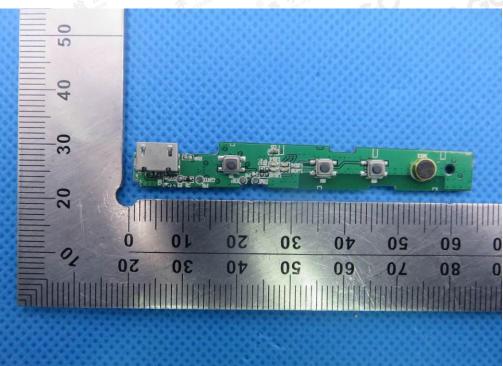


Report No.: AGC00079180302FE03 Page 59 of 60

INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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Report No.: AGC00079180302FE03 Page 60 of 60

INTERNAL VIEW OF EUT-3



VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

----END OF REPORT----

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