

Page 1 of 62

FCC Test Report

Report No.: AGC02320180501FE03

FCC ID	: 2AOW6-VRT60018BT
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	I : Bluetooth Speaker
BRAND NAME	: N/A
MODEL NAME	: VRT60018BT and VRT60018BT-CVS
CLIENT	: Shantou Xinyu Industry Co., Ltd.
DATE OF ISSUE	: June 01, 2018
STANDARD(S) TEST PROCEDURE(S)	: FCC Part 15 Subpart C Section 15.249
REPORT VERSION	: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

AGC

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Report No.: AGC02320180501FE03 Page 2 of 62

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Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		June 01, 2018	Valid	Initial release

Report Revise Record





Report No.: AGC02320180501FE03 Page 3 of 62

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	5 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 9
6. TEST FACILITY	
7. TEST METHOD	
8. TEST EQUIPMENT LIST	
9. RADIATED EMISSION	12
9.1. TEST LIMIT 9.2. MEASUREMENT PROCEDURE 9.3. TEST SETUP 9.4. TEST RESULT	13
10. BAND EDGE EMISSION	
10.1. MEASUREMENT PROCEDURE 10.2 TEST SETUP 10.3 RADIATED TEST RESULT	37 37 38
11. 20DB BANDWIDTH	42
11.1. MEASUREMENT PROCEDURE 11.2. TEST SET-UP 11.3. LIMITS AND MEASUREMENT RESULTS	42
12. FCC LINE CONDUCTED EMISSION TEST	
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	48 48 49
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	51
APPENDIX B: PHOTOGRAPHS OF EUT	54

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Report No.: AGC02320180501FE03 Page 4 of 62

Applicant	Shantou Xinyu Industry Co., Ltd.				
Address	Heping Zhongzhai Industrial Zone Chaoyang District, Shantou, Guangdong, China				
Manufacturer	Shantou Xinyu Industry Co., Ltd.				
Address	Heping Zhongzhai Industrial Zone Chaoyang District, Shantou, Guangdong, China				
Product Designation	Bluetooth Speaker				
Brand Name	N/A				
Test Model	VRT60018BT and VRT60018BT-CVS				
Date of test	May 24, 2018 to May 31, 2018				
Deviation	None				
Condition of Test Sample	Normal				
Report Template	AGCRT-US-BR/RF				

1. 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.

Tested By

Zhano Henry

Henry Zhang(Zhang Zhuorui) May

May 31, 2018

well chang

Reviewed By

Cool Cheng(Cheng Mengguo) June 01, 2018

west in

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

June 01, 2018





Report No.: AGC02320180501FE03 Page 5 of 62

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	-3.71dBm(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
Hardware Version	V1.2
Software Version	V4.2
Antenna Designation	PCB Antenna
Antenna Gain	-0.58dBi
Power Supply	DC 3.7V by battery
Note: The USB port only u	sed for charging and can't be used to transfer data with PC.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency
No P	0	2402MHz
The Barrense	· *****	2403MHz
C Standard Color	GC : CC	
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
The transferrer @ The Transferrer Contract	40 0	2442 MHz
of colored and a		
	77	2479 MHz
The Hannes	78	2480 MHz



3. MEASUREMENT UNCERTAINTY

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

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

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
5	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	BT Link with charging
8	BT Link
Nata	

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.





5			Soft	ware Setting	© 45	tion of Globald	C The work of Global Con	
nce	Parameter							
	MODE TX	(🖌						
4	Channel 78	~	Packet type	2-DH3 🚩	Data Types	Pn9	*	
ono	Transmit Power 10	*	Hopping	OFF 🚩	Serial Port	COM3	~ N	
1		Types: Pn9 icket type: 2-D	НЗ		C	Send confi	iguration	
C	Send configuration informat		y Des	cription: Channel: range 0- Transmit Power r		-	y 2.402GHz-2.480G	
0								



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Report No.: AGC02320180501FE03 Page 8 of 62

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

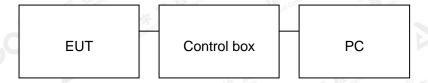
Configure 1: (Normal hopping)



Adapter or PC

Note: Owing to the EUT has own battery, and testing may be performed while PC or adapter removed.

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item Equipment		Mfr/Brand Model/Type No.		Remark	
1	Bluetooth Speaker	Xinyu	VRT60018BT and VRT60018BT-CVS	EUT	
2	Battery	FST	18650	Accessory	
3	PC PC	APPLE	A1465	A.E	
4	Control box	GZUT	N/A	A.E	
5	Adapter	IPRO	NTR-S01	A.E	
6	USB Cable	N/A	1m unshielded	A.E	
7	IPOD	APPLE	A1367	A.E	





Report No.: AGC02320180501FE03 Page 9 of 62

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





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
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Loop Antenna	A.H.Systems,Inc	SAS-562B		Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	F ACODAL CONDUCTO	Jun.20, 2017	Jun.19, 2018





9. RADIATED EMISSION

9.1. TEST LIMIT

Standard FCC15.249

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

Standard FCC 15.209

Frequency	Distance	Field Str	engths Limit
(MHz)	Meters	μ V/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	E England Con Call
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 South States	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.: AGC02320180501FE03 Page 13 of 62

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)





Report No.: AGC02320180501FE03 Page 14 of 62

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.

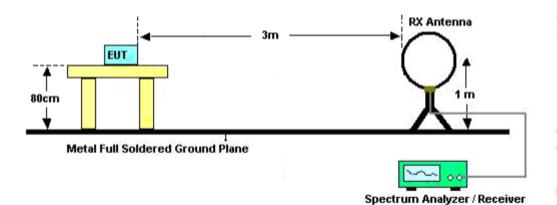


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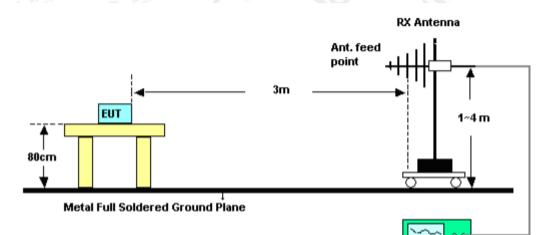
Report No.: AGC02320180501FE03 Page 15 of 62

9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



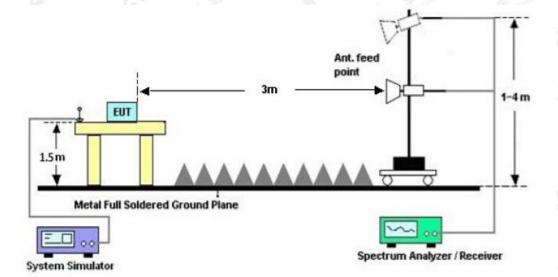
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Spectrum Analyzer / Receiver



Report No.: AGC02320180501FE03 Page 16 of 62



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Report No.: AGC02320180501FE03 Page 17 of 62

9.4. TEST RESULT

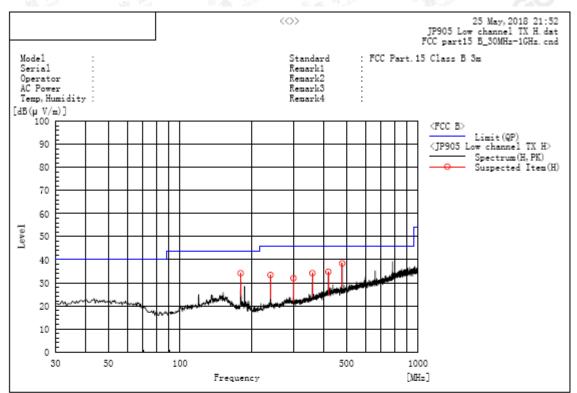
(Worst modulation: π /4-DQPSK)

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



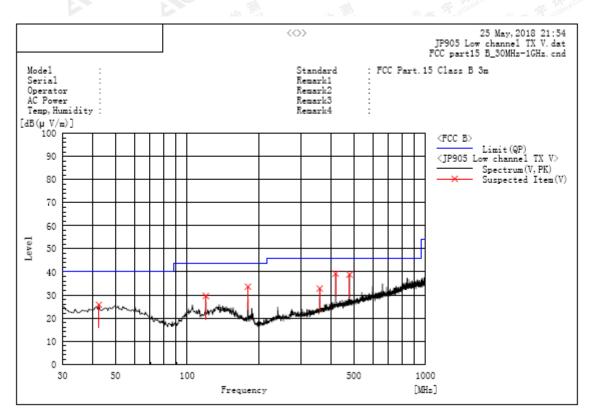
A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
179.865	Н	19.6	14.6	34.2	43.5	9.3	Pass	100.0	280.2
240.005	Н	17.2	16.2	33.4	46.0	12.6	Pass	100.0	338.3
299.660	н	14.6	17.4	32.0	46.0	14.0	Pass	100.0	38.0
359.800	Н	14.8	19.3	34.1	46.0	11.9	Pass	100.0	187.0
419.940	Н	13.4	21.4	34.8	46.0	11.2	Pass	100.0	259.0
480.080	н	15.8	22.6	38.4	46.0	7.6	Pass	100.0	200.7

RESULT: PASS

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

A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
ſ	42.610	v	8.4	17.4	25.8	40.0	14.2	Pass	200.0	179.0
ſ	119.725	v	14.2	15.4	29.6	43.5	13.9	Pass	200.0	70.6
	179.865	v	19.0	14.6	33.6	43.5	9.9	Pass	100.0	214.6
	359.800	v	13.5	19.3	32.8	46.0	13.2	Pass	150.0	1.6
	419.940	v	17.9	21.4	39.3	46.0	6.7	Pass	100.0	19.8
	480.080	v	16.3	22.6	38.9	46.0	7.1	Pass	100.0	222.0

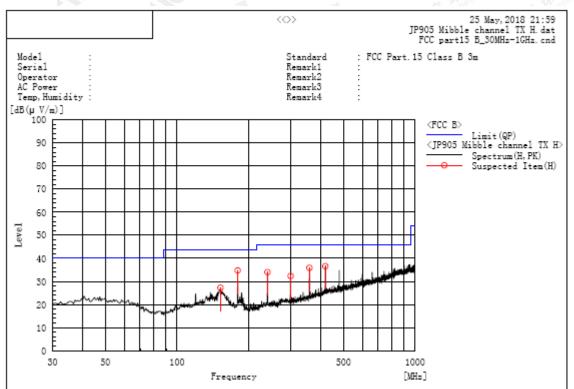
RESULT: PASS

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

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

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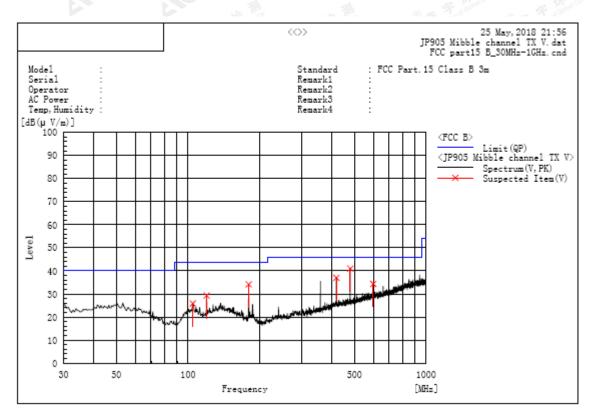


RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
152.220	н	10.7	16.6	27.3	43.5	16.2	Pass	100.0	4.2
179.865	н	20.2	14.6	34.8	43.5	8.7	Pass	100.0	273.2
240.005	н	17.8	16.2	34.0	46.0	12.0	Pass	100.0	20.6
300.145	н	15.0	17.4	32.4	46.0	13.6	Pass	100.0	7.2
359.800	н	16.6	19.3	35.9	46.0	10.1	Pass	100.0	24.6
419.940	н	15.2	21.4	36.6	46.0	9.4	Pass	100.0	114.0

RESULT: PASS



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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
104.690	v	11.9	14.0	25.9	43.5	17.6	Pass	200.0	118.6
119.725	v	13.9	15.4	29.3	43.5	14.2	Pass	100.0	39.4
179.865	v	19.6	14.6	34.2	43.5	9.3	Pass	100.0	357.5
419.940	v	15.6	21.4	37.0	46.0	9.0	Pass	150.0	48.0
480.080	v	18.4	22.6	41.0	46.0	5.0	Pass	100.0	291.5
599.875	v	9.5	24.9	34.4	46.0	11.6	Pass	200.0	192.0

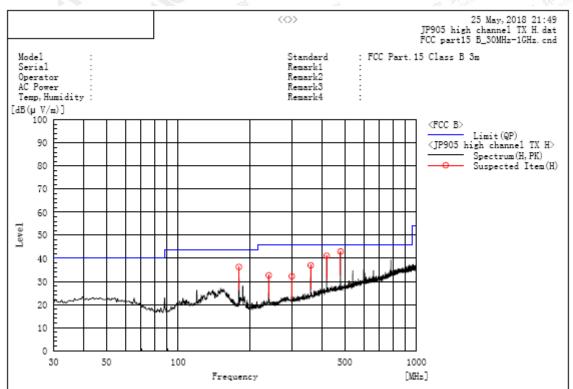
RESULT: PASS

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

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

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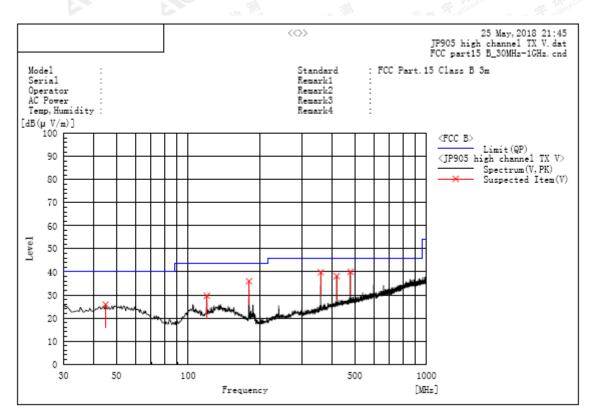


RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
179.865	н	21.7	14.6	36.3	43.5	7.2	Pass	150.0	274.8
240.005	н	16.5	16.2	32.7	46.0	13.3	Pass	150.0	9.5
299.660	н	14.8	17.4	32.2	46.0	13.8	Pass	100.0	15.2
359.800	н	17.7	19.3	37.0	46.0	9.0	Pass	100.0	18.4
419.940	н	19.7	21.4	41.1	46.0	4.9	Pass	200.0	350.2
480.080	н	20.4	22.6	43.0	46.0	3.0	Pass	150.0	9.5

RESULT: PASS



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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
45.035	v	8.6	17.3	25.9	40.0	14.1	Pass	150.0	316.0
119.725	v	14.3	15.4	29.7	43.5	13.8	Pass	100.0	202.3
179.865	v	21.4	14.6	36.0	43.5	7.5	Pass	200.0	346.6
359.800	v	20.6	19.3	39.9	46.0	6.1	Pass	200.0	104.6
419.940	v	16.7	21.4	38.1	46.0	7.9	Pass	100.0	46.6
480.080	v	17.5	22.6	40.1	46.0	5.9	Pass	100.0	262.0

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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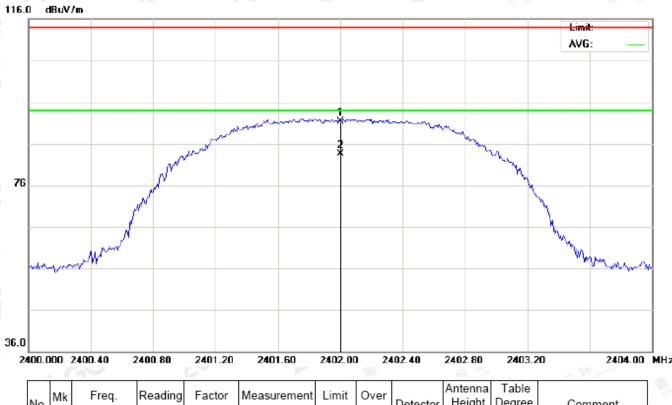
Report No.: AGC02320180501FE03 Page 23 of 62

RADIATED EMISSION ABOVE 1GHz

(Worst modulation: π /4-DQPSK)

For Fundamental

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



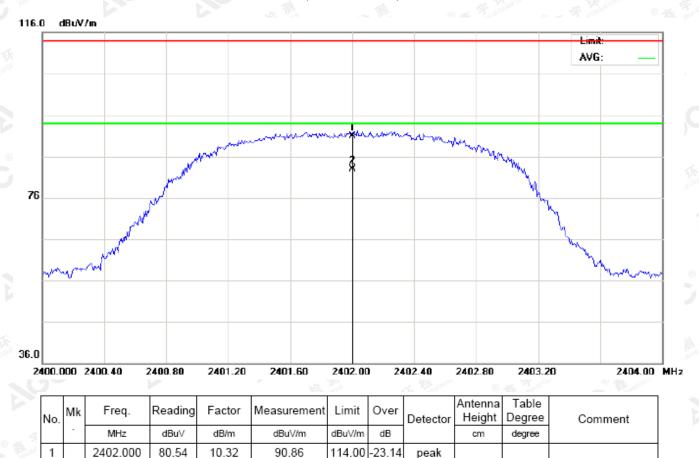
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment
	•	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2402.000	81.04	10.32	91.36	114.00	-22.64	peak			
2	*	2402.000	73.11	10.32	83.43	94.00	-10.57	AVG	100	136	

RESULT: PASS





Report No.: AGC02320180501FE03 Page 24 of 62



94.00

-11.11

AVG

100

337

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

RESULT: PASS

2

2402.000

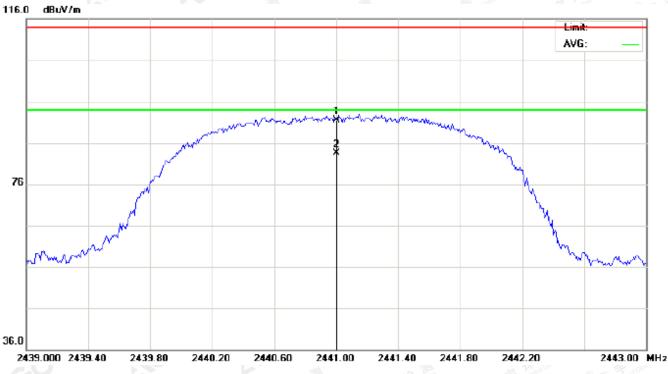
72.57

10.32

82.89







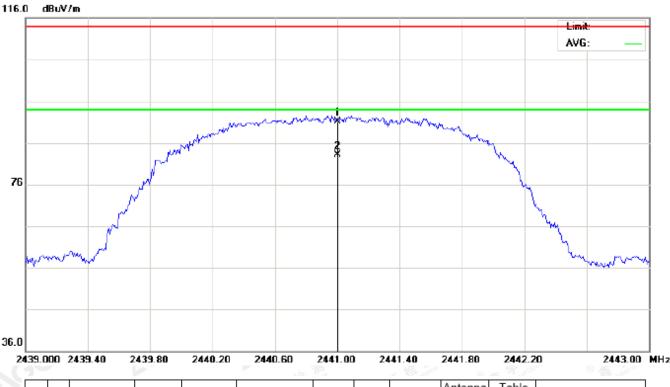
RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

	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	
N a	1		2441.000	81.13	10.36	91.49	114.00	-22.51	peak			
	2	*	2441.000	73.15	10.36	83.51	94.00	-10.49	AVG	100	133	,

RESULT: PASS



Report No.: AGC02320180501FE03 Page 26 of 62



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

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
13		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
tal	1		2441.000	80.69	10.36	91.05	114.00	-22.95	peak			
	2	*	2441.000	72.69	10.36	83.05	94.00	-10.95	AVG	100	331	

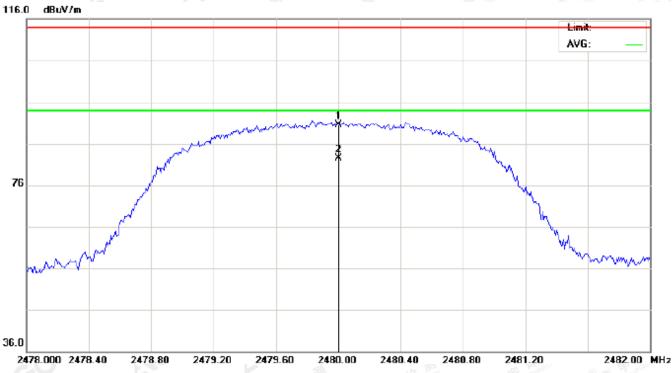
RESULT: PASS

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Report No.: AGC02320180501FE03 Page 27 of 62



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

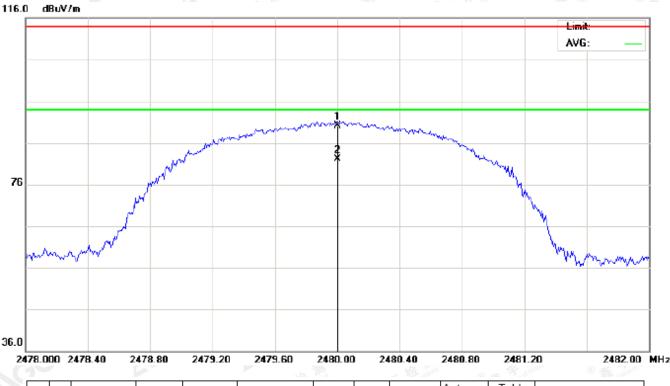
												Con the second
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
~		-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
N ist	1		2480.000	80.18	10.41	90.59	114.00	-23.41	peak			
	2	*	2480.000	72.18	10.41	82.59	94.00	-11.41	AVG	100	134	

RESULT: PASS





Report No.: AGC02320180501FE03 Page 28 of 62



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

h												
	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	
2	1		2480.000	79.72	10.41	90.13	114.00	-23.87	peak			
	2	*	2480.000	71.71	10.41	82.12	94.00	-11.88	AVG	100	330	

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

2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	81.04	10.32	91.36	114	-22.64	Horizontal
2402	80.54	10.32	90.86	114	-23.14	Vertical
2441	81.13	10.36	91.49	114	-22.51	Horizontal
2441	80.69	10.36	91.05	114	-22.95	Vertical
2480	80.18	10.41	90.59	114	-23.41	Horizontal
2480	79.72	10.41	90.13	114	-23.87	Vertical
- H82	Star Star					

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.11	10.32	83.43	94 0	-10.57	Horizontal
2402	72.57	10.32	82.89	94	-11.11	Vertical
2441	73.15	10.36	83.51	94	-10.49	Horizontal
2441	72.69	10.36	83.05	94	-10.95	Vertical
2480	72.18	10.41	82.59	94	-11.41	Horizontal
2480	71.71	10.41	82.12	94	-11.88	Vertical



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Report No.: AGC02320180501FE03 Page 30 of 62

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	80.56	10.32	90.88	114	-23.12	Horizontal
2402	80.13	10.32	90.45	114	-23.55	Vertical
2441	80.69	10.36	91.05	114	-22.95	Horizontal
2441	80.21	10.36	90.57	114	-23.43	Vertical
2480	79.69	10.41	90.10	114	-23.90	Horizontal
2480	79.31	10.41	89.72	114	-24.28	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	72.62	10.32	82.94	94	-11.06	Horizontal
2402	72.07	10.32	82.39	94	-11.61	Vertical
2441	72.66	10.36	83.02	94	-10.98	Horizontal
2441	72.25	10.36	82.61	94	-11.39	Vertical
2480	71.74	10.41	82.15	94	-11.85	Horizontal
2480	71.23	10.41	81.64	94	-12.36	Vertical



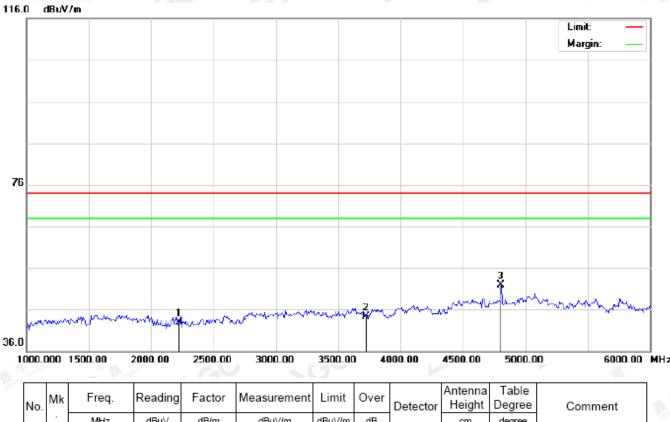


Report No.: AGC02320180501FE03 Page 31 of 62

(Worst modulation: π /4-DQPSK)

For Harmonics

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



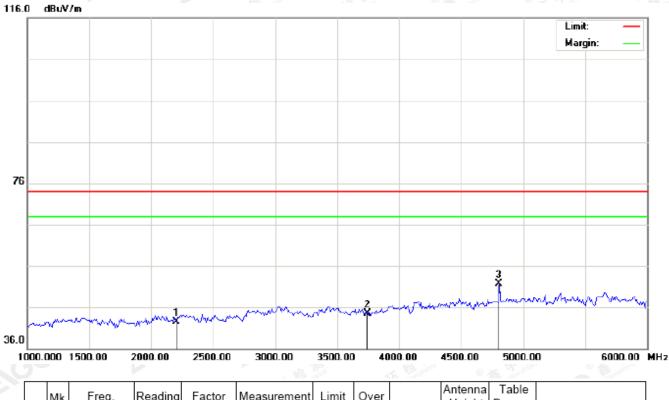
No.	IVIN	rieq.	rteading	1 actor	measurement	Linin	0701	Detector	Height	Degree	Comment	
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree		
1		2225.000	32.69	10.13	42.82	74.00	-31.18	peak				
2		3725.000	30.79	13.50	44.29	74.00	-29.71	peak				N
3	*	4804.000	44.21	7.69	51.90	74.00	-22.10	peak				3

RESULT: PASS





Report No.: AGC02320180501FE03 Page 32 of 62



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

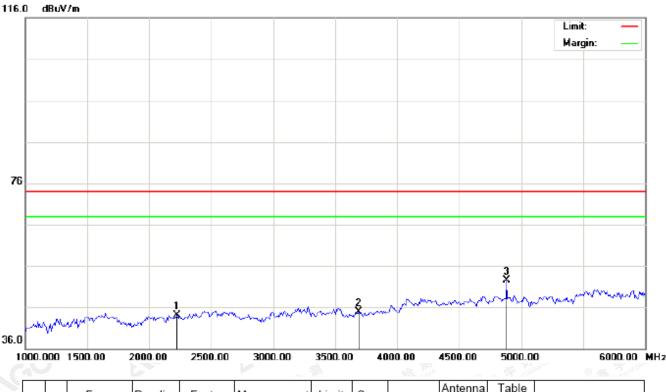
N	. M	1k	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
×.		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
ं 1			2200.000	32.41	10.10	42.51	74.00	-31.49	peak			
2			3741.667	30.97	13.60	44.57	74.00	-29.43	peak			
3	3	×	4804.000	44.05	7.69	51.74	74.00	-22.26	peak			

RESULT: PASS





Report No.: AGC02320180501FE03 Page 33 of 62



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

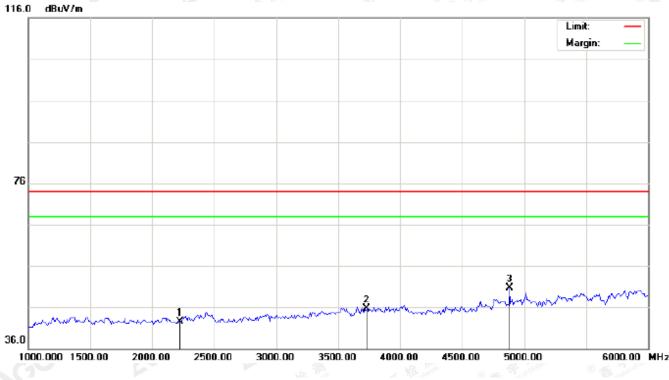
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$													
1 2225.000 33.99 10.13 44.12 74.00 -29.88 peak 2 3691.667 31.59 13.29 44.88 74.00 -29.12 peak		No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over				Comment
2 3691.667 31.59 13.29 44.88 74.00 -29.12 peak	2		-	MHz	dBu∨	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
2 3691.667 31.59 13.29 44.88 74.00 -29.12 peak	10	1		2225.000	33.99	10.13	44.12	74.00	-29.88	peak			
3 * 4882.000 44.66 7.89 52.55 74.00 -21.45 peak				3691.667	31.59	13.29	44.88	74.00	-29.12	peak			
		3	*	4882.000	44.66	7.89	52.55	74.00	-21.45	peak			

RESULT: PASS



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Report No.: AGC02320180501FE03 Page 34 of 62



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

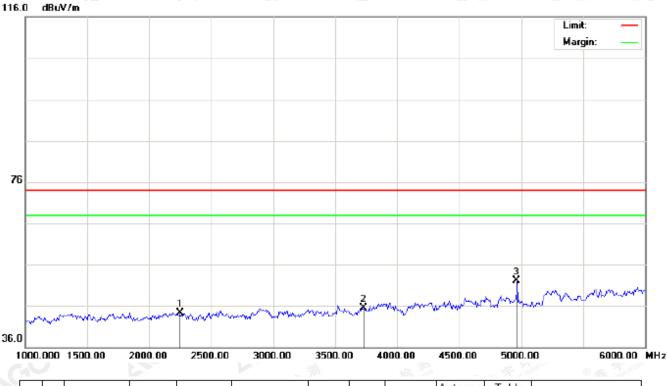
N	o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		•	MHz	dBu∨	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
8	1		2225.000	32.36	10.13	42.49	74.00	-31.51	peak			
1	2		3733.333	32.11	13.55	45.66	74.00	-28.34	peak			
	3	*	4882.000	42.89	7.89	50.78	74.00	-23.22	peak			

RESULT: PASS





Report No.: AGC02320180501FE03 Page 35 of 62



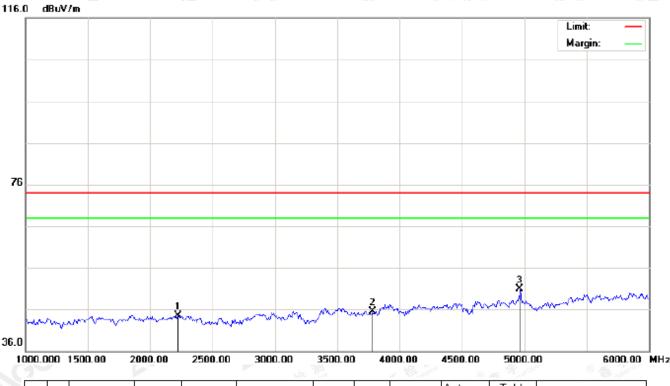
RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
5121	1		2250.000	34.13	10.15	44.28	74.00	-29.72	peak			
	2		3733.333	31.89	13.55	45.44	74.00	-28.56	peak			
	3	*	4960.000	44.10	8.09	52.19	74.00	-21.81	peak			

RESULT: PASS







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

						30051			201 P. 2010 (C)		PORTE:	-200× -200×
No.	D.	. 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			2225.000	34.29	10.13	44.42	74.00	-29.58	peak			
2	2		3783.333	31.63	13.86	45.49	74.00	-28.51	peak			
3	;	*	4960.000	42.91	8.09	51.00	74.00	-23.00	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.: AGC02320180501FE03 Page 37 of 62

10. BAND EDGE EMISSION

10.1. MEASUREMENT PROCEDURE

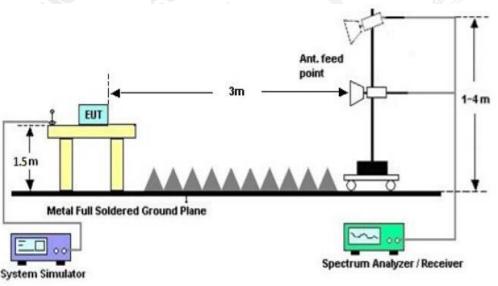
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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

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

Start frequency	y(MHz)	Stop frequency(MHz)				
2200	· 电···································	nce C Stratter	2405	SC -		
2478	C Austano of Gou	GO	2500			
Aller Aller						

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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10.3 RADIATED TEST RESULT

(Worst modulation: π /4-DQPSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



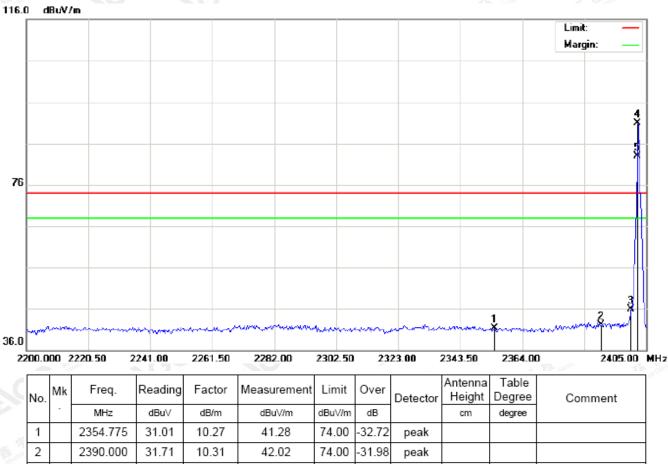
No	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1		2352.725	31.77	10.27	42.04	74.00	-31.96	peak			
	2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
-1	3		2400.000	41.97	10.32	52.29	74.00	-21.71	peak			
2	4	*	2402.000	81.07	10.32	91.39	74.00	17.39	peak			
	5	х	2402.000	73.08	10.32	83.40	74.00	9.40	AVG	100	131	

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Report No.: AGC02320180501FE03 Page 39 of 62



74.00

74.00

74.00

-28.12

16.83

8.85

peak

peak

AVG

100

338

10.32

10.32

10.32

45.88

90.83

82.85

35.56

80.51

72.53

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

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3

4

5 | X

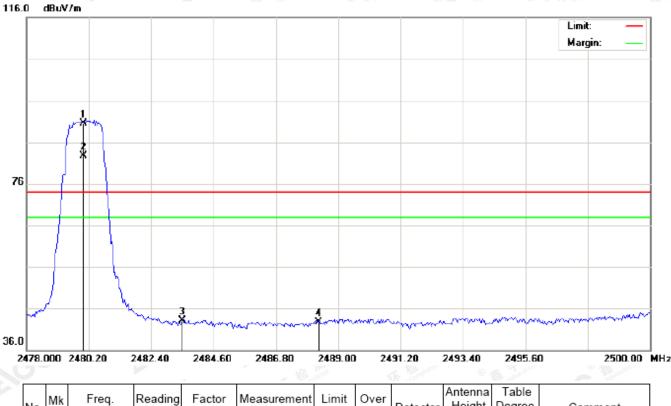
2400.000

2402.000

2402.000



Report No.: AGC02320180501FE03 Page 40 of 62



TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

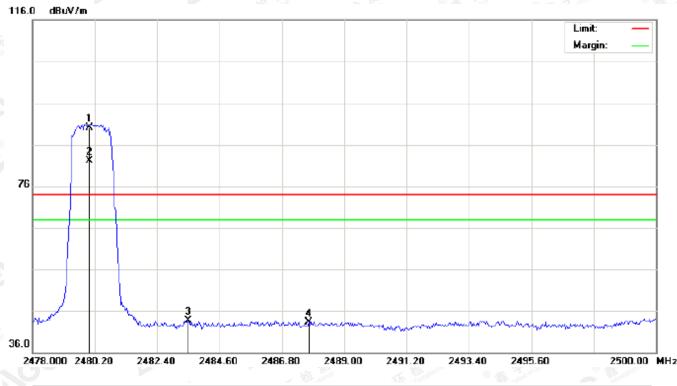
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
101		•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
esti	1	*	2480.000	80.15	10.41	90.56	74.00	16.56	peak			
	2	Х	2480.000	72.21	10.41	82.62	74.00	8.62	AVG	100	130	
	3		2483.500	32.69	10.41	43.10	74.00	-30.90	peak			
	4		2488.303	32.19	10.42	42.61	74.00	-31.39	peak			

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Report No.: AGC02320180501FE03 Page 41 of 62



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	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	79.75	10.41	90.16	74.00	16.16	peak			
2	Х	2480.000	71.76	10.41	82.17	74.00	8.17	AVG	100	335	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2487.753	32.95	10.42	43.37	74.00	-30.63	peak			

RESULT: PASS

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

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

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

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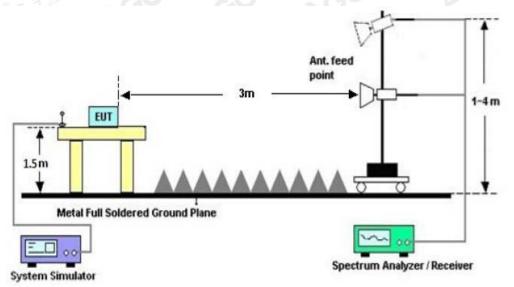
Report No.: AGC02320180501FE03 Page 42 of 62

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

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result									
Applicable Limits		Test Data (MHz)								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
the man	Low Channel	0.898	1.064	PASS						
N/A	Middle Channel	0.907	1.058	PASS						
NO. NO	High Channel	0.899	1.049	PASS						

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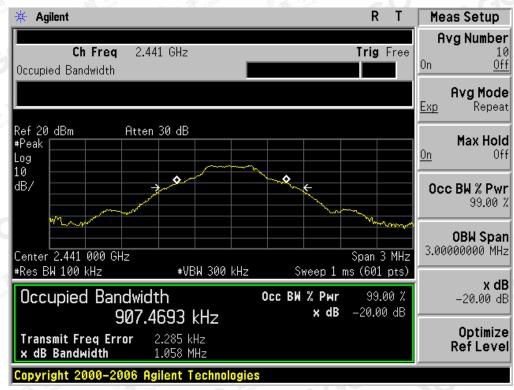


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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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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BLUET	OOTH 2MBPS LIN	ITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Result						
The the the second	Low Channel	1.212	1.368	PASS				
N/A	Middle Channel	1.207	1.364	PASS				
	High Channel	1.211	1.379	PASS				

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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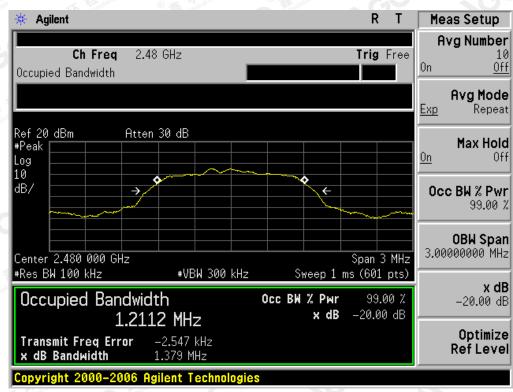




TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

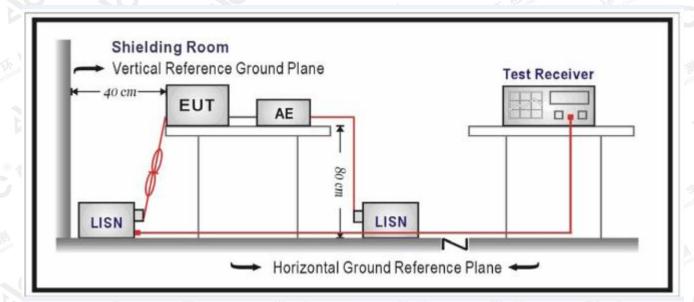
Francisco	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	© 56 56 °	46					
5MHz~30MHz	60	50					

Note:

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

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

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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Report No.: AGC02320180501FE03 Page 48 of 62

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.
- 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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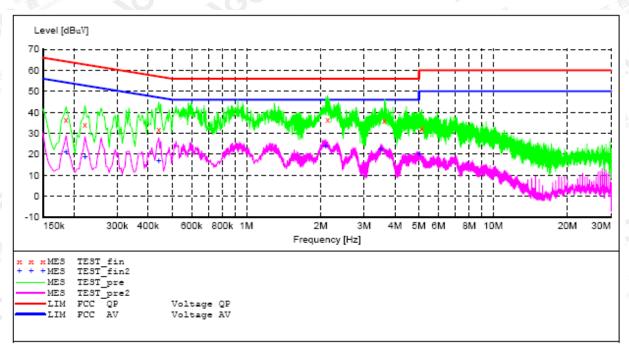
GC[®]鑫宇环检测 Attestation of Global Compliance

Report No.: AGC02320180501FE03 Page 49 of 62

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT:

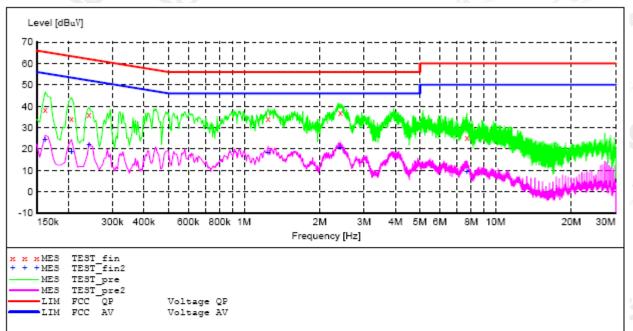
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.186000	36.30	10.0	64	27.9	QP	L1	FLO
0.222000	34.10	10.1	63	28.6	QP	L1	FLO
0.442000	31.90	10.0	57	25.1	QP	L1	FLO
2.134000	36.30	9.9	56	19.7	QP	L1	FLO
3.626000	36.00	10.1	56	20.0	QP	L1	FLO
5.142000	32.20	10.3	60	27.8	OP	L1	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.186000	21.20	10.0	54	33.0	AV	L1	FLO
0.222000	18.60	10.1	53	34.1	AV	L1	FLO
0.442000	16.90	10.0	47	30.1	AV	L1	FLO
2.098000	23.80	9.9	46	22.2	AV	L1	FLO
3.506000	22.50	10.0	46	23.5	AV	L1	FLO
5.026000	20.00	10.3	50	30.0	AV	L1	FLO

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Line Conducted Emission Test Line 2-N

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.162000 0.206000 0.242000 1.246000 2.414000 7.694000	38.40 34.10 36.10 34.30 36.90 25.10	10.0 10.1 10.1 10.1 9.9 10.0	65 63 56 56 60	27.0 29.3 25.9 21.7 19.1 34.9	QP QP QP QP QP QP	N N N N N	FLO FLO FLO FLO FLO FLO

MEASUREMENT RESULT:

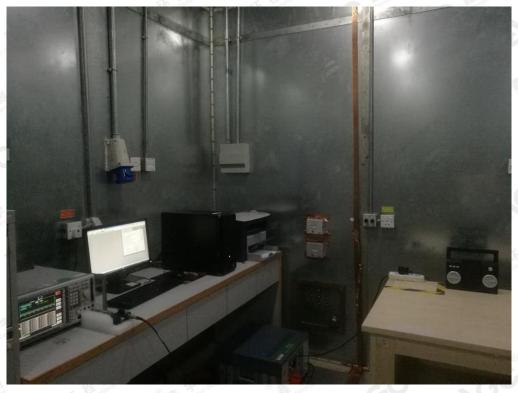
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.162000	24.20 18.80	10.0 10.1	55 53	31.2 34.6		N N	FLO FLO
0.242000	21.90	10.1	52	30.1	AV	Ν	FLO
1.246000	18.10	10.1	46	27.9	AV	N	FLO
2.410000	20.50	9.9	46	25.5	AV	Ν	FLO
7.694000	9.30	10.0	50	40.7	AV	N	FLO

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Report No.: AGC02320180501FE03 Page 51 of 62

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



FCC RADIATED EMISSION TEST SETUP



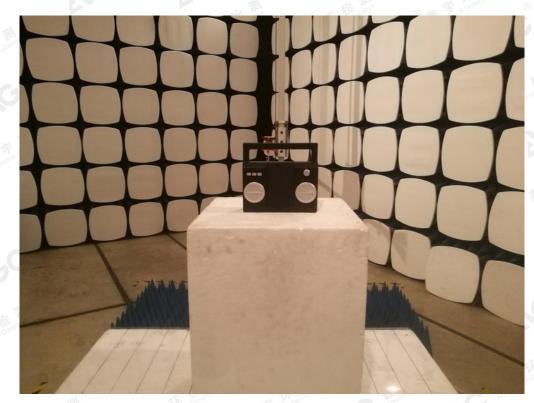
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Report No.: AGC02320180501FE03 Page 52 of 62





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Report No.: AGC02320180501FE03 Page 53 of 62



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Report No.: AGC02320180501FE03 Page 54 of 62

APPENDIX B: PHOTOGRAPHS OF EUT TOP VIEW OF EUT



BOTTOM VIEW OF EUT

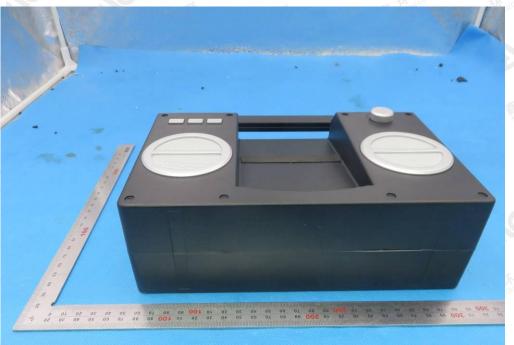


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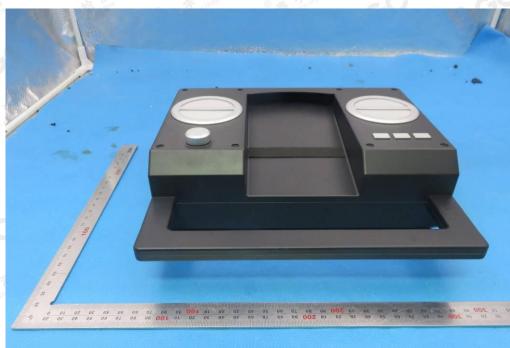


Report No.: AGC02320180501FE03 Page 55 of 62

FRONT VIEW OF EUT



BACK VIEW OF EUT

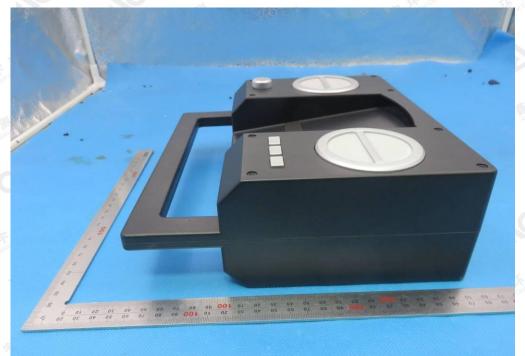


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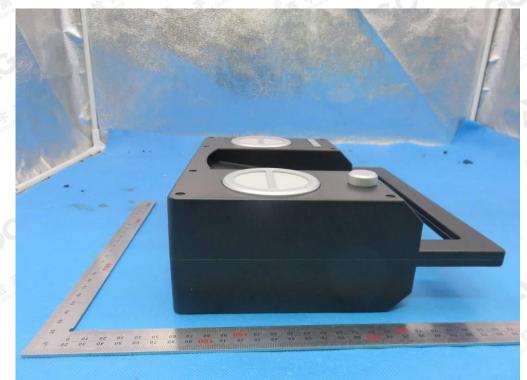


Report No.: AGC02320180501FE03 Page 56 of 62

LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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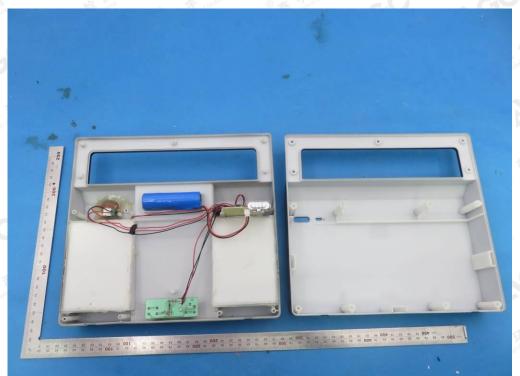


Report No.: AGC02320180501FE03 Page 57 of 62

VIEW OF EUT (PORT)



OPEN VIEW OF EUT-1

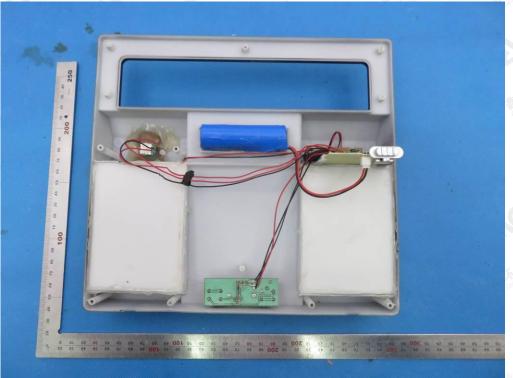


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Report No.: AGC02320180501FE03 Page 58 of 62

OPEN VIEW OF EUT-2



VIEW OF BATTERY

18650-2000мАн 000мАн VOL:3.6V 17 62965 маде и

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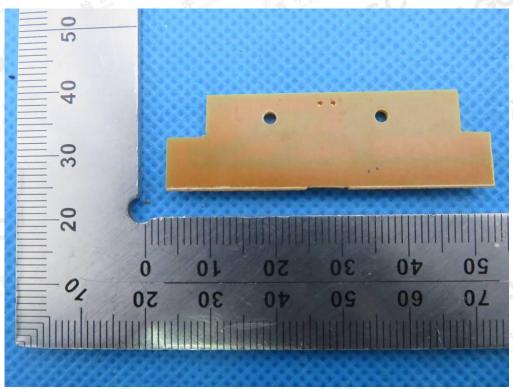
7.2Wh 1/4.2U



Report No.: AGC02320180501FE03 Page 59 of 62

INTERNAL VIEW OF EUT-1 5 0 4 30 20180416 X626508-BOOSUL KEY PCB 20 09 07 01 **50** 30 00 0/

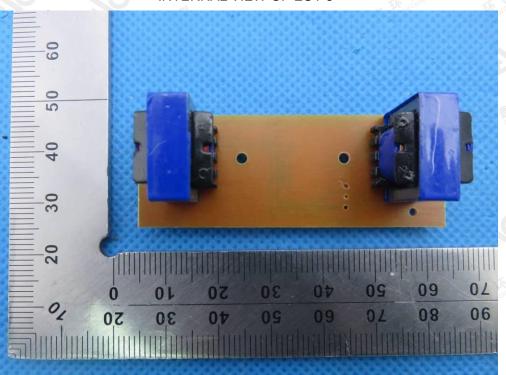
INTERNAL VIEW OF EUT-2



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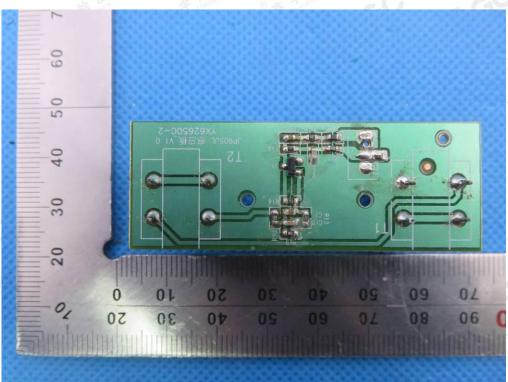


Report No.: AGC02320180501FE03 Page 60 of 62



INTERNAL VIEW OF EUT-3

INTERNAL VIEW OF EUT-4

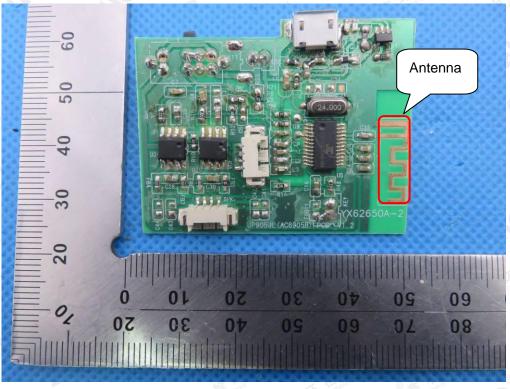


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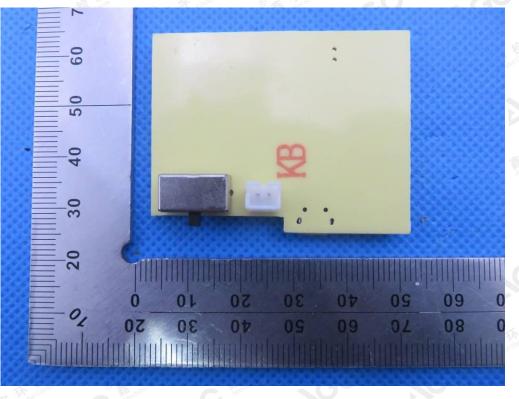


Report No.: AGC02320180501FE03 Page 61 of 62

INTERNAL VIEW OF EUT-5



INTERNAL VIEW OF EUT-6



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Report No.: AGC02320180501FE03 Page 62 of 62

INTERNAL VIEW OF EUT-7



VIEW OF ADAPTER (AE)



The adapter was supplied by AGC

----END OF REPORT----

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