

FCC Test Report

Report No.: AGC01278180604FE03

FCC ID : 2ANVW-MA-1020

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: WIRELESS EARPHONE

BRAND NAME: MuveAcoustics

MODEL NAME : MA-1020

CLIENT: Zeeva Electronics Private Limited

DATE OF ISSUE : Jul 05, 2018

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15 Subpart C Section 15.249

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	plience / © Mile	Jul. 05, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Zeeva Electronics Private Limited
Address	Unit 901-902, 9th FI, Trade World 'C' Wing, Kamala City, Senapati Bapat Marg, Lower Parel (West), Mumbai 400-013
Manufacturer	Dongguan KOPPO Electronics Co., Ltd.
Address	No.2, Road 3, BuXinJi Industrial Area, GuanJingTou, Fenggang Town, Dongguan, China.
Product Designation	WIRELESS EARPHONE
Brand Name	MuveAcoustics
Test Model	MA-1020
Date of test	Jun. 21, 2018 to Jul. 03, 2018
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

We hereby certify that:

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

Tested By		Harry	Zhang		
© Mestation of Sec.	Henry Zhang(Zl	hang Zh	nuorui)	Jul. 03, 20	18
Reviewed By_	The state of the s	cvo	cheng	© Filleration of Calcium	ompliance
	Cool Cheng(Che	ng Men	gguo)	Jul. 05, 20	18
Approved By	O THE THOUGHT COMMOND	Fore	沙心	and Compliance	# Filestation of
S American C	Forrest Lei(Le Authorize		•	Jul. 05, 20	18

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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
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V1.1
Software Version	V4.2
Antenna Designation	Ceramic Antenna
Antenna Gain	2dBi
Power Supply	DC 3.7V by battery
Jampho 3V. 190.	nly used for charging and can't be used to transfer data with PC. of EUT didn't work when charging.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
30	0	2402MHz
70	1 7 5 5	2403MHz
Se The Cooperation (S)	- C	100 100 I
-Comments of Co	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
Allestation of Grant	-C	
100	77	2479 MHz
	78	2480 MHz



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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±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

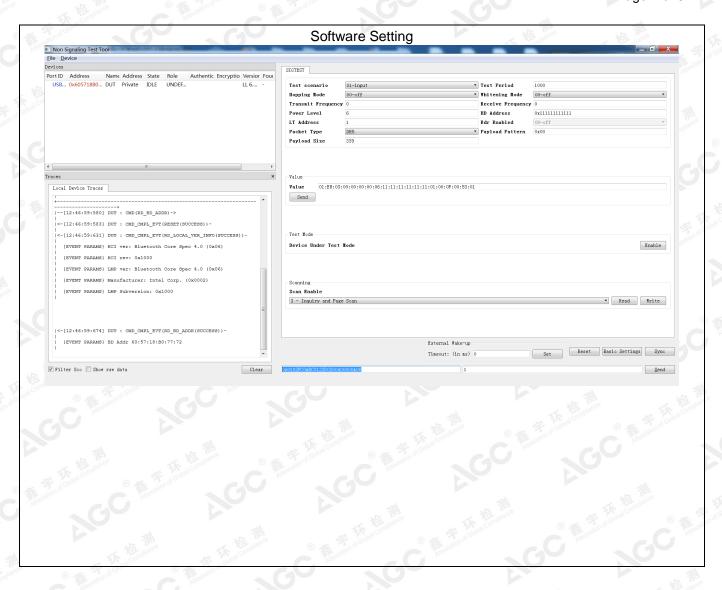
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
® Andrews	Low channel GFSK
2 3	Middle channel GFSK
3	High channel GFSK
· 4 (4)	Low channel π /4-DQPSK
® 5 June Colore	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
_ # The comment of the second	Middle channel 8DPSK
90	High channel 8DPSK
10	BT Link
100 mm	

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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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

	Finns		palCo	
EUT	Sta	Control box		PC

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	WIRELESS EARPHONE	MuveAcoustics	MA-1020	EUT
2	Battery	Beizeer	10100	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	SERIAL	N/A	A.E
6	USB Cable	N/A	1m unshielded	A.E
8	IPOD	APPLE	A1367	A.E The Committee

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5.3. SUMMARY OF TEST RESULTS

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

Note: N/A means it's not applicable to this item.



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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 RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Jun.20, 2018	Jun.19, 2019
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, 2018	Jun.19, 2019
Antenna	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B		Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2018	Jun.19, 2019



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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	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)	吃那
1.705 ~ 30	30	30 (1)	E Sobolico Coloro
30 ~ 88	3	100	40.0
88 ~ 216	3 - 6	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3 The factor of the second	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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9.2. MEASUREMENT PROCEDURE

- 1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 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.
- 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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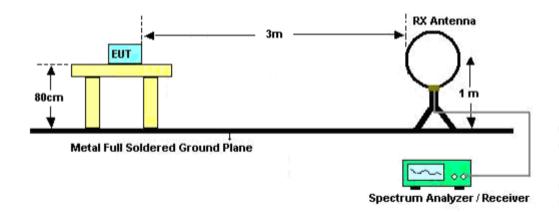
The following table is the setting of spectrum analyzer and receiver.

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	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

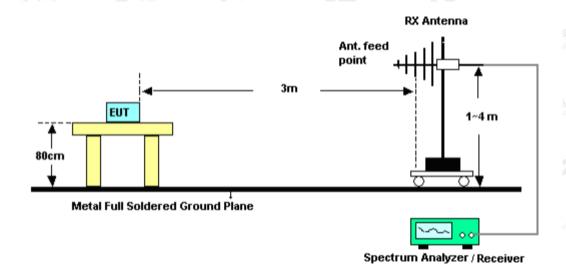


9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



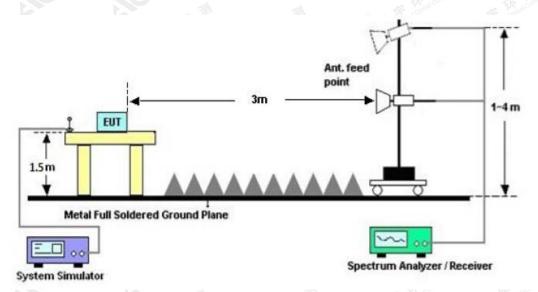
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RADIATED EMISSION TEST SETUP ABOVE 1000MHz





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9.4. TEST RESULT

FOR BR/EDR

(Worst modulation: 8DPSK)

RADIATED EMISSION BELOW 30MHz

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

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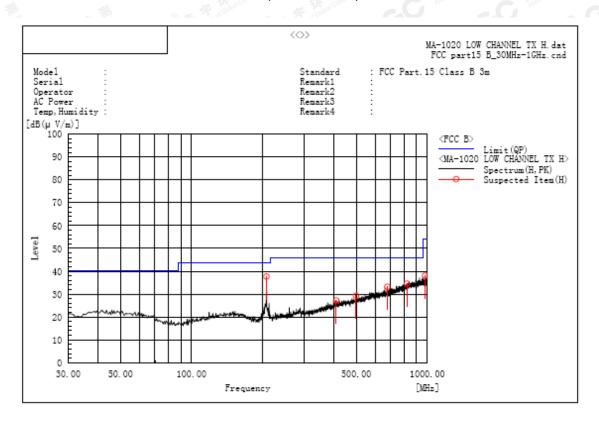
Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4,Chaxi Sanwei Technical Industrial Park,Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



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RADIATED EMISSION BELOW 1GHz

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



A. Suspected List:

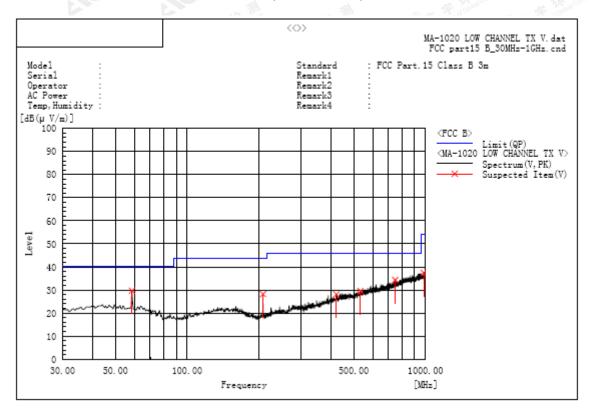
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
207.995	H	23.9	13.8	37.7	43.5	5.8	Pass	100.0	248.7
411.210	Н	6.0	21.2	27.2	46.0	18.8	Pass	100.0	316.7
498.510	Н	6.4	22.9	29.3	46.0	16.7	Pass	100.0	191.8
676.020	Н	7.2	26.0	33.2	46.0	12.8	Pass	100.0	63.1
819.095	H	5.5	29.1	34.6	46.0	11.4	Pass	100.0	161.4
977.690	Н	7.2	30.9	38.1	54.0	15.9	Pass	150.0	312.2

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(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
58.615	v	13.3	16.4	29.7	40.0	10.3	Pass	100.0	215.7
207.995	v	14.4	13.8	28.2	43.5	15.3	Pass	200.0	203.7
422.365	v	6.6	21.5	28.1	46.0	17.9	Pass	150.0	76.4
533.430	v	6.0	23.5	29.5	46.0	16.5	Pass	200.0	255.5
746.345	v	6.9	27.4	34.3	46.0	11.7	Pass	150.0	205.7
983.510	v	6.4	31.0	37.4	54.0	16.6	Pass	100.0	105.1

RESULT: PASS

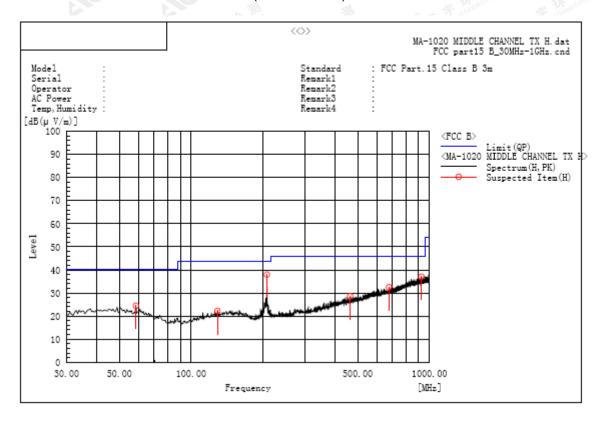
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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





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



A. Suspected List:

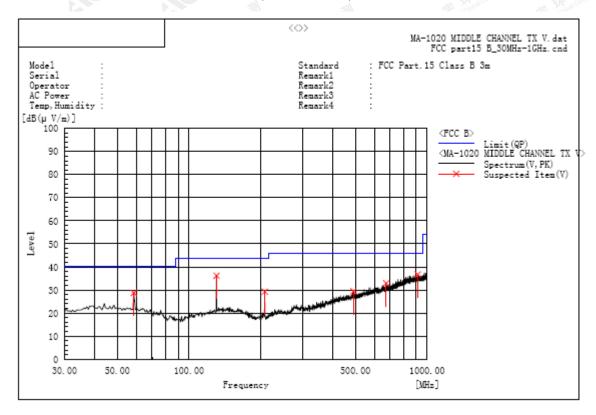
Frequency MHz	Polarization	olarization Reading dB (uV) Factor dB (buv/m) dB (uv/m) dB (uv/m) dB (uv/m) dB (uv/m) dB (uv/m) dB		Pass/Fail	Height cm	Angle deg			
58.615	H	8.1	16.4	24.5	40.0	15.5	Pass	200.0	166.5
128.940	H	6.1	16.1	22.2	43.5	21.3	Pass	150.0	245.7
207.995	H	24.2	13.8	38.0	43.5	5.5	Pass	150.0	85.5
464.560	Н	6.3	22.3	28.6	46.0	17.4	Pass	200.0	182.0
676.505	H	6.5	26.0	32.5	46.0	13.5	Pass	200.0	85.0
924.825	Н	6.7	30.4	37.1	46.0	8.9	Pass	200.0	228.3

RESULT: PASS



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



A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)			Margin dB	Pass/Fail	Height cm	Angle deg	
58.615	V	12.4	16.4	28.8	40.0	11.2	Pass	150.0	293.7
130.395	V	19.9	16.3	36.2	43.5	7.3	Pass	150.0	350.1
207.995	V	15.5	13.8	29.3	43.5	14.2	Pass	200.0	183.0
490.265	V	6.7	22.7	29.4	46.0	16.6	Pass	200.0	255.7
673.110	V	7.0	25.9	32.9	46.0	13.1	Pass	200.0	215.5
913.670	v	6.4	30.3	36.7	46.0	9.3	Pass	200.0	252.7

RESULT: PASS

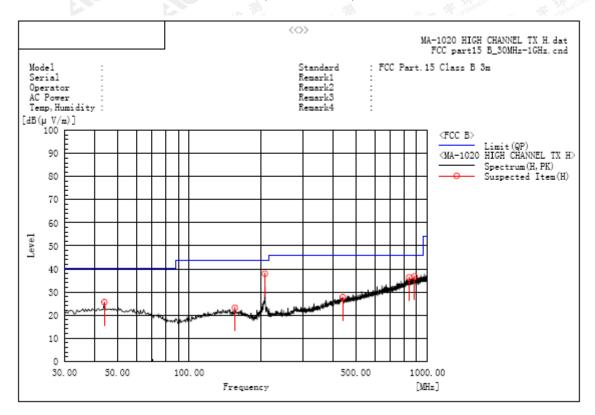
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



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



A. Suspected List:

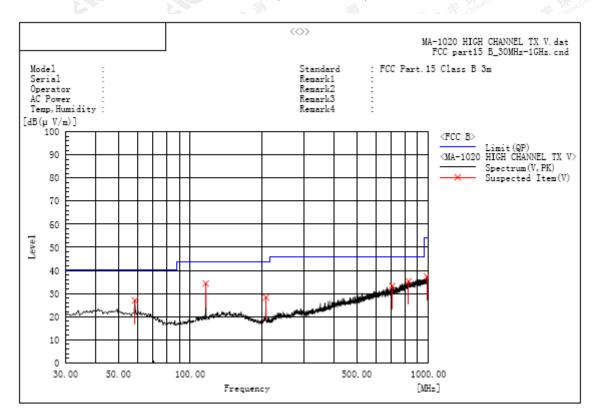
Frequency MHz	y Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
44.065	Н	8.3	17.3	25.6	40.0	14.4	Pass	100.0	155.7
155.615	Н	6.6	16.6	23.2	43.5	20.3	Pass	150.0	52.9
207.995	Н	24.1	13.8	37.9	43.5	5.6	Pass	150.0	97.7
440.795	Н	5.8	21.9	27.7	46.0	18.3	Pass	100.0	180.1
837.525	Н	6.9	29.4	36.3	46.0	9.7	Pass	100.0	303.9
882.145	Н	6.8	30.0	36.8	46.0	9.2	Pass	150.0	175.1

RESULT: PASS



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



A. Suspected List:

	Frequency MHz	Polarization	Polarization Reading dB (uV) Factor dB dB(uV/m) dB(uV/m) QP		Margin dB	Pass/Fail	Height cm	Angle deg		
	58.615	V	10.6	16.4	27.0	40.0	13.0	Pass	199.7	79.3
	116.330	V	19.2	15.1	34.3	43.5	9.2	Pass	150.0	9.3
	207.995	v	14.5	13.8	28.3	43.5	15.2	Pass	200.0	176.5
Į	705.120	V	6.8	26.5	33.3	46.0	12.7	Pass	150.0	32.9
	824.915	V	6.1	29.2	35.3	46.0	10.7	Pass	200.0	102.7
	984.480	v	6.4	31.0	37.4	54.0	16.6	Pass	200.0	201.0

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.



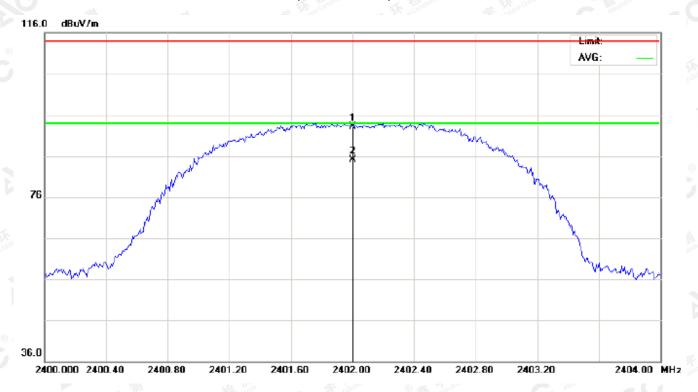
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RADIATED EMISSION ABOVE 1GHz FOR BR/EDR

(Worst modulation: 8DPSK)

For Fundamental

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



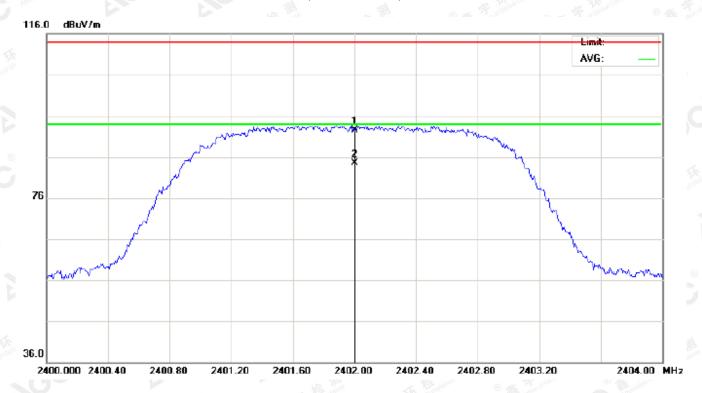
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	82.70	10.32	93.02	114.00	-20.98	peak			
2	*	2402.000	74.71	10.32	85.03	94.00	-8.97	AVG	100	102	

RESULT: PASS



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



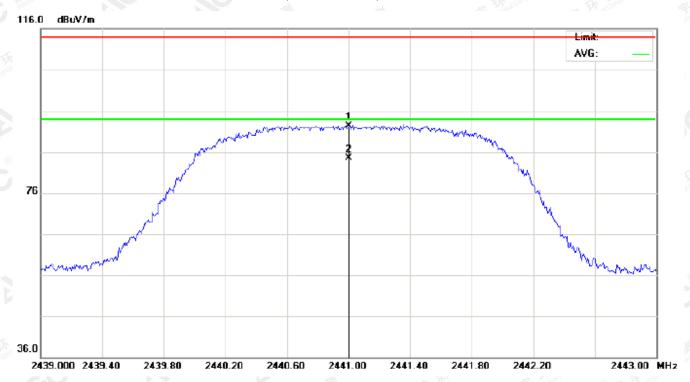
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	82.28	10.32	92.60	114.00	-21.40	peak	·	·	
2	*	2402.000	74.26	10.32	84.58	94.00	-9.42	AVG	100	306	

RESULT: PASS



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



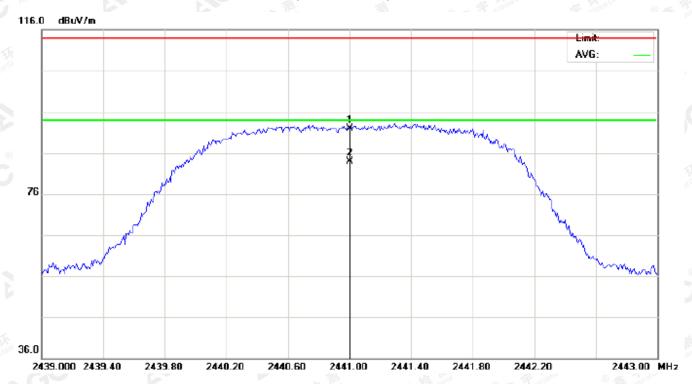
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	82.03	10.36	92.39	114.00	-21.61	peak			
2	*	2441.000	74.12	10.36	84.48	94.00	-9.52	AVG	100	108	

RESULT: PASS



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



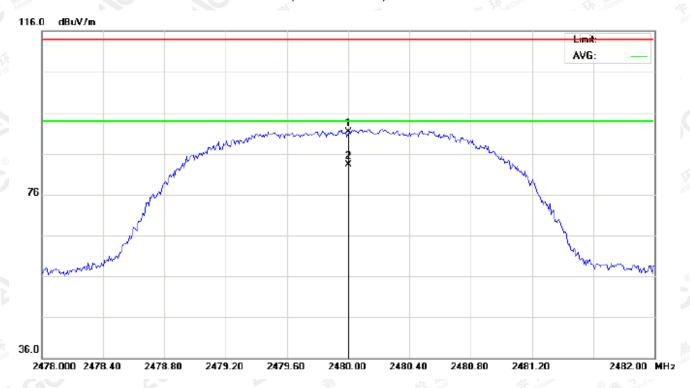
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	81.59	10.36	91.95	114.00	-22.05	peak			
2	*	2441.000	73.58	10.36	83.94	94.00	-10.06	AVG	100	307	

RESULT: PASS



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



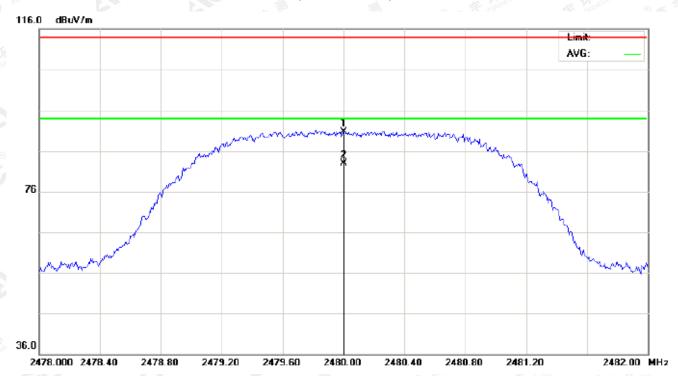
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2480.000	80.83	10.41	91.24	114.00	-22.76	peak			
2	*	2480.000	72.90	10.41	83.31	94.00	-10.69	AVG	100	105	

RESULT: PASS



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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2480.000	80.39	10.41	90.80	114.00	-23.20	peak			
2	*	2480.000	72.41	10.41	82.82	94.00	-11.18	AVG	100	309	

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

3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	82.70	10.32	93.02	114	-20.98	Horizontal	
2402	82.28	10.32	92.60	114	-21.40	Vertical	
2441	82.03	10.36	92.39	114	-21.61	Horizontal	
2441	81.59	10.36	91.95	114	-22.05	Vertical	
2480	80.83	10.41	91.24	114	-22.76	Horizontal	
2480	80.39	10.41	90.80	114	-23.20	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	74.71	10.32	85.03	94	-8.97	Horizontal	
2402	74.26	10.32	84.58	94	-9.42	Vertical	
2441	74.12	10.36	84.48	94	-9.52	Horizontal	
2441	73.58	10.36	83.94	94	-10.06	Vertical	
2480	72.90	10.41	83.31	94	-10.69	Horizontal	
2480	72.41	10.41	82.82	94	-11.18	Vertical	



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2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	82.26	10.32	92.58	114	-21.42	Horizontal
2402	81.84	10.32	92.16	114	-21.84	Vertical
2441	81.61	10.36	91.97	114	-22.03	Horizontal
2441	81.09	10.36	91.45	114	-22.55	Vertical
2480	80.41	10.41	90.82	114	-23.18	Horizontal
2480	79.89	10.41	90.30	114	-23.70	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	74.26	10.32	84.58	94	-9.42	Horizontal
2402	73.85	10.32	84.17	94	-9.83	Vertical
2441	73.69	10.36	84.05	94	-9.95	Horizontal
2441	73.15	10.36	83.51	94	-10.49	Vertical
2480	72.43	10.41	82.84	94	-11.16	Horizontal
2480	71.94	10.41	82.35	94	-11.65	Vertical



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1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	81.82	10.32	92.14	114	-21.86	Horizontal
2402	81.37	10.32	91.69	114	-22.31	Vertical
2441	81.20	10.36	91.56	114	-22.44	Horizontal
2441	80.60	10.36	90.96	114	-23.04	Vertical
2480	79.97	10.41	90.38	114	-23.62	Horizontal
2480	79.48	10.41	89.89	114	-24.11	Vertical

Average value

3						
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.78	10.32	84.10	94	-9.90	Horizontal
2402	73.44	10.32	83.76	94	-10.24	Vertical
2441	73.20	10.36	83.56	94	-10.44	Horizontal
2441	72.66	10.36	83.02	94	-10.98	Vertical
2480	72.01	10.41	82.42	94	-11.58	Horizontal
2480	71.46	10.41	81.87	94	-12.13	Vertical



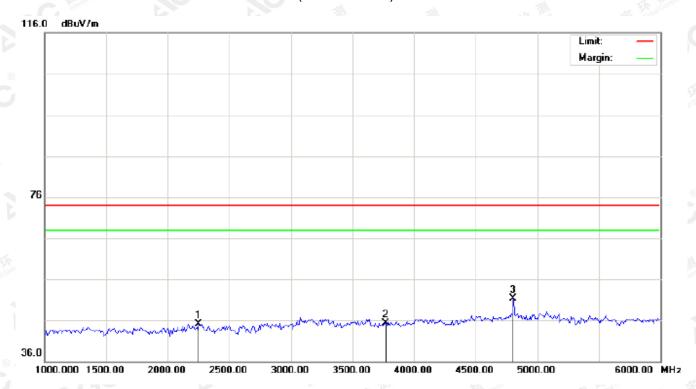
age 33 of 61

FOR BR/EDR

(Worst modulation: 8DPSK)

For Harmonics

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



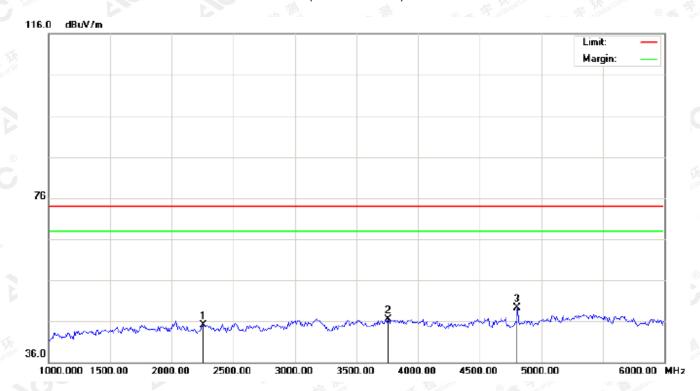
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2250.000	34.86	10.15	45.01	74.00	-28.99	peak			
2		3766.667	31.59	13.75	45.34	74.00	-28.66	peak			
3	*	4804.000	43.71	7.69	51.40	74.00	-22.60	peak			

RESULT: PASS



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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2258.333	34.92	10.16	45.08	74.00	-28.92	peak			
2		3758.333	32.71	13.70	46.41	74.00	-27.59	peak			
3	*	4804.000	41.55	7.69	49.24	74.00	-24.76	peak			

RESULT: PASS

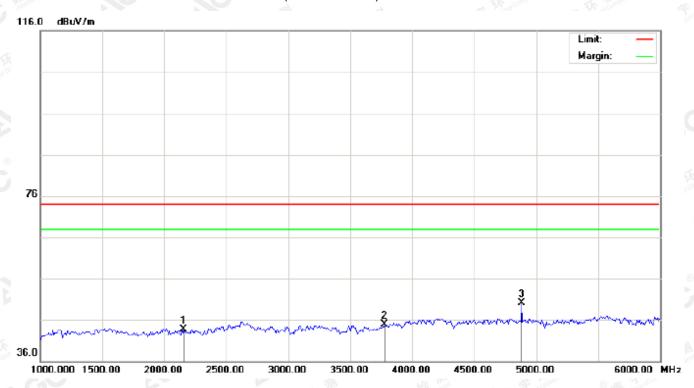
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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



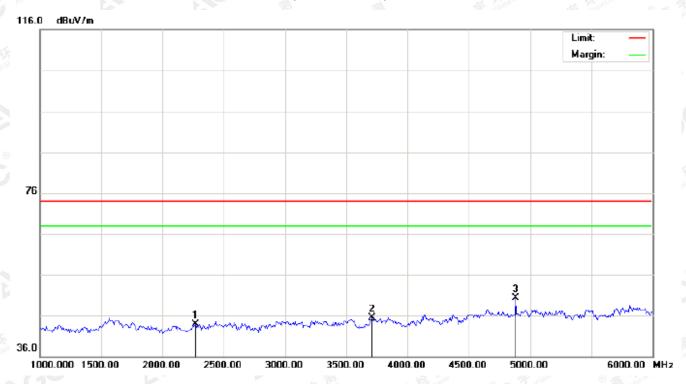
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2158.333	33.58	10.05	43.63	74.00	-30.37	peak			
2		3775.000	31.15	13.80	44.95	74.00	-29.05	peak			
3	*	4882.000	42.16	7.89	50.05	74.00	-23.95	peak			

RESULT: PASS



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



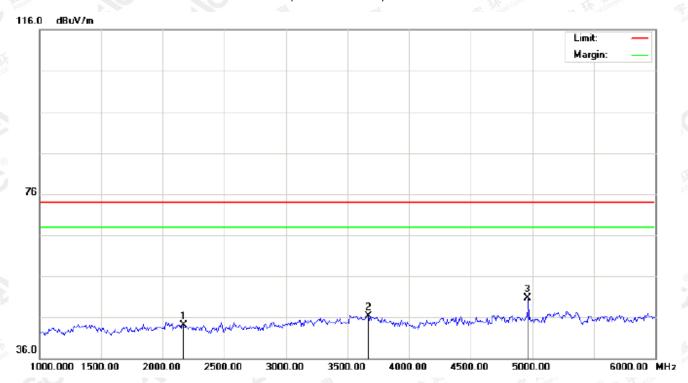
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2266.667	33.83	10.17	44.00	74.00	-30.00	peak			
2		3708.333	32.09	13.39	45.48	74.00	-28.52	peak			
3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

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	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2166.667	34.01	10.06	44.07	74.00	-29.93	peak			
2		3666.667	33.12	13.14	46.26	74.00	-27.74	peak			
3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak			

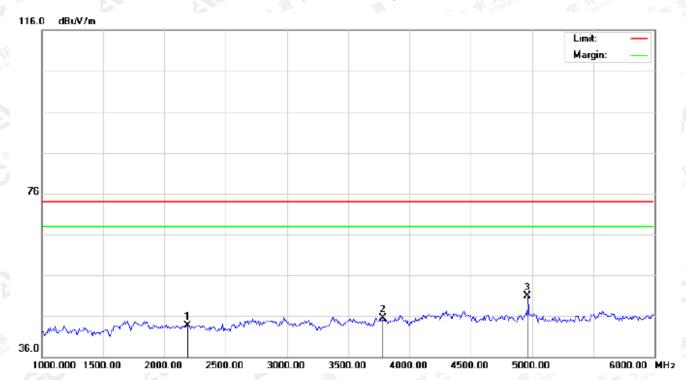
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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2191.667	33.67	10.09	43.76	74.00	-30.24	peak			
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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10. BAND EDGE EMISSION

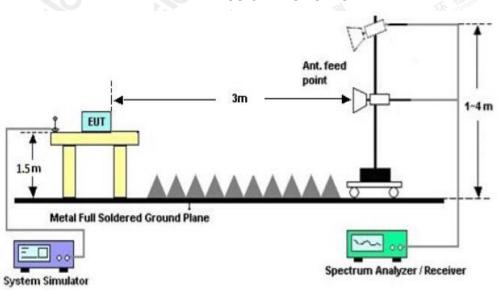
10.1. MEASUREMENT PROCEDURE

- 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 frequenc	y(MHz)		Stop frequency(MHz)		
	2200	Kimplence	The Committee	® A station of G	2405	100
(S) ### (1)	2478	3lobal C	Allestation of Glob	-,0 "	2500	

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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10.3 RADIATED TEST RESULT

FOR BR/EDR

(Worst modulation: 8DPSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



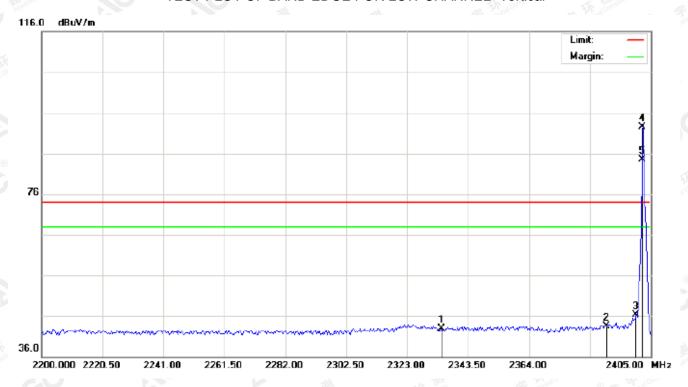
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2350.675	32.19	10.27	42.46	74.00	-31.54	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	82.76	10.32	93.08	74.00	19.08	peak			
5	Х	2402.000	74.75	10.32	85.07	74.00	11.07	AVG	100	103	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



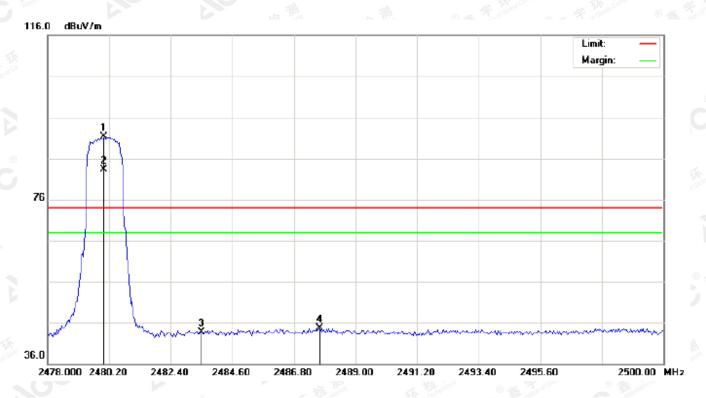
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2334.616	32.72	10.25	42.97	74.00	-31.03	peak			
2		2390.000	33.21	10.31	43.52	74.00	-30.48	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	82.25	10.32	92.57	74.00	18.57	peak	·		
5	Х	2402.000	74.22	10.32	84.54	74.00	10.54	AVG	100	303	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



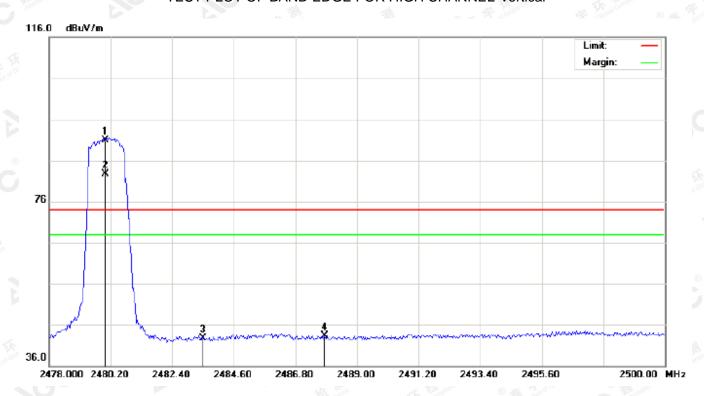
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	80.87	10.41	91.28	74.00	17.28	peak			
2	Х	2480.000	72.95	10.41	83.36	74.00	9.36	AVG	100	104	
3		2483.500	33.19	10.41	43.60	74.00	-30.40	peak			
4		2487.716	34.18	10.42	44.60	74.00	-29.40	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	80.45	10.41	90.86	74.00	16.86	peak			
2	Х	2480.000	72.35	10.41	82.76	74.00	8.76	AVG	100	305	
3		2483.500	32.26	10.41	42.67	74.00	-31.33	peak			
4		2487.827	32.82	10.42	43.24	74.00	-30.76	peak			

RESULT: PASS

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

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

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

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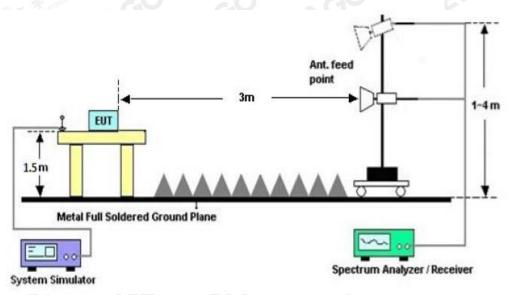
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ 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

BLUETO	BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result								
Applicable Limits		D							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
Solve Company	Low Channel	0.949	1.089	PASS					
N/A	Middle Channel	0.946	1.119	PASS					
	High Channel	0.972	1.106	PASS					

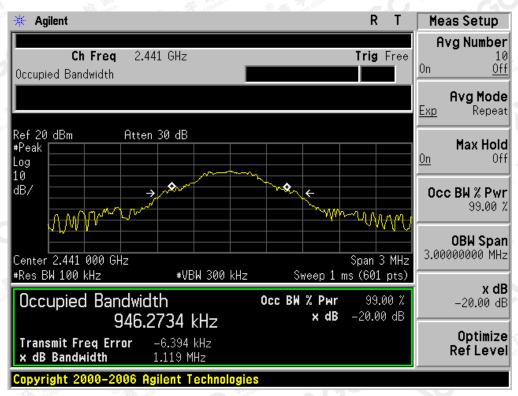
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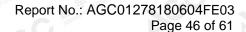
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

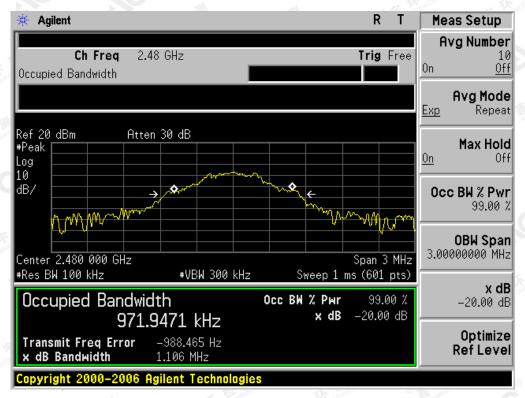


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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



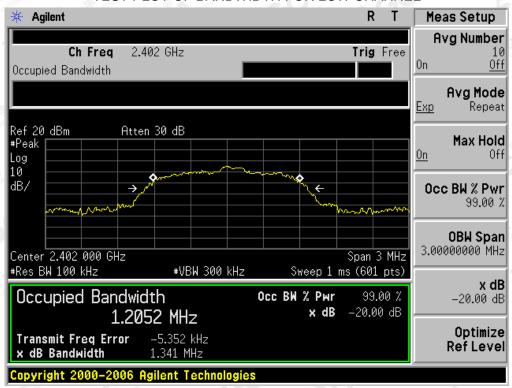
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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result							
Applicable Limits		Descrit						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The fill the state of the state	Low Channel	1.205	1.341	PASS				
N/A	Middle Channel	1.206	1.349	PASS				
	High Channel	1.200	1.326	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

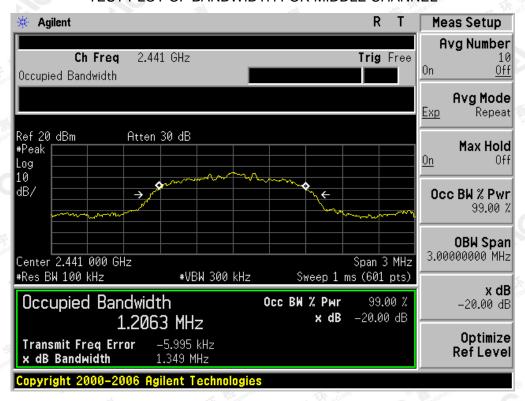


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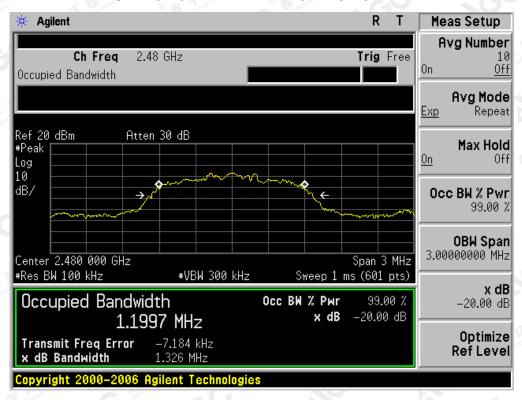




TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



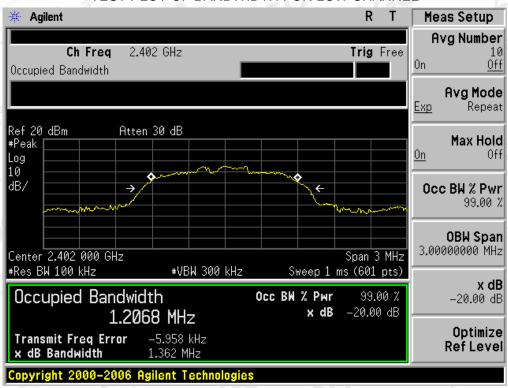
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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT									
		Measurement Result							
Applicable Limits									
		99%OBW (MHz)	-20dB BW(MHz)	Result					
T. To all the state of the stat	Low Channel	1.207	1.362	PASS					
N/A	Middle Channel	1.201	1.353	PASS					
SGC "	High Channel	1.215	1.355	PASS					

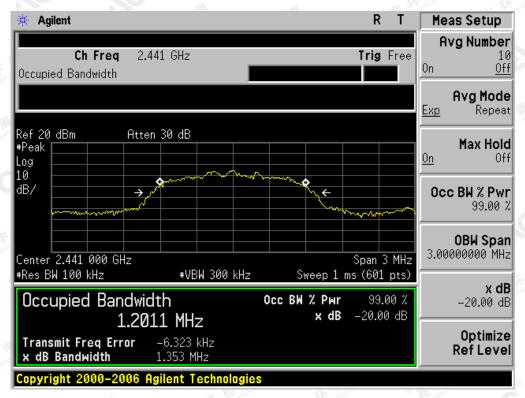
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



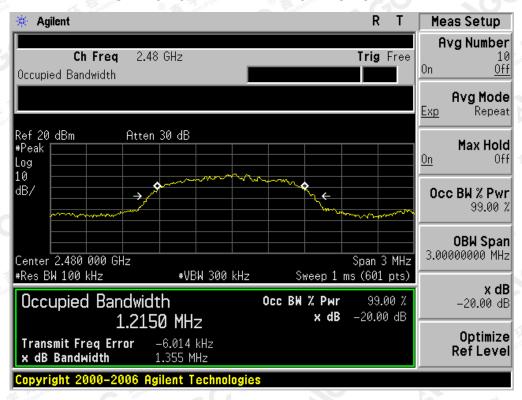
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

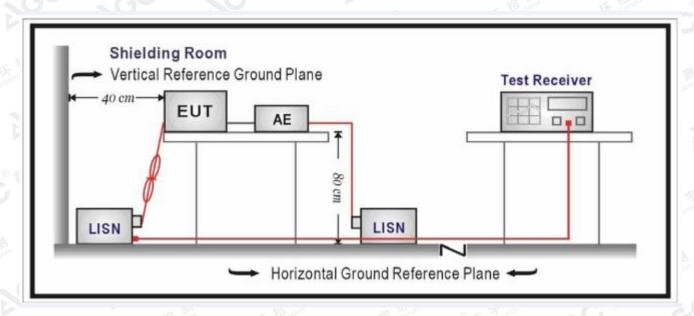
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)							
150kHz~500kHz	66-56	56-46							
500kHz~5MHz	8 gg 200 56 gg 100 00 00 00 00 00 00 00 00 00 00 00 00	46 / W							
5MHz~30MHz	60	50							

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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 C63.10 (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

- 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.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The BT function of EUT didn't work when charging.

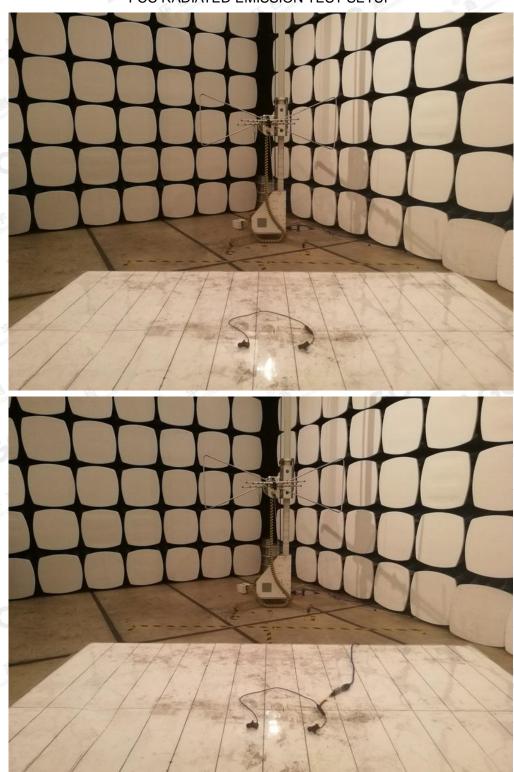
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

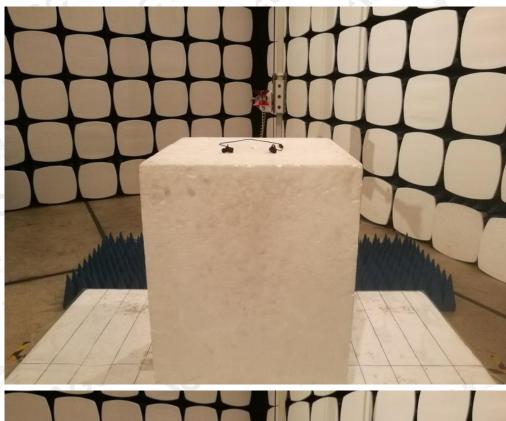
FCC RADIATED EMISSION TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)



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OPEN VIEW OF EUT



VIEW OF BATTERY-1



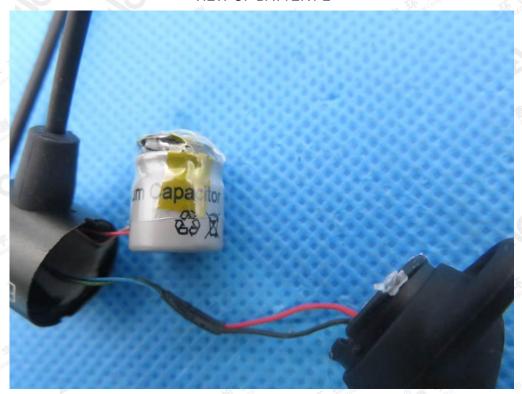
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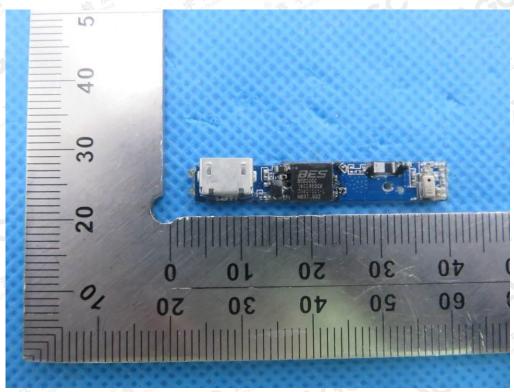
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VIEW OF BATTERY-2



INTERNAL VIEW OF EUT-1



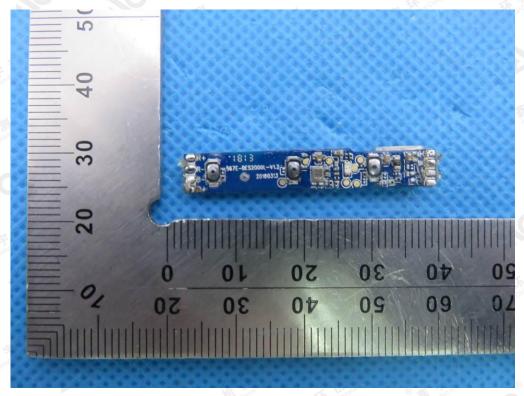
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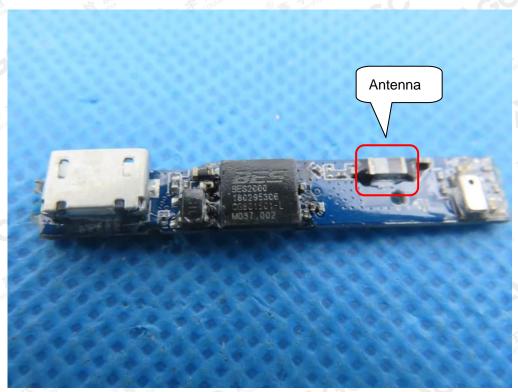
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



----END OF REPORT----

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