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FCC Test Report

Report No.: AGC00796180302FE03

FCC ID	: WTD-G37
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Sport Bluetooth Headset
BRAND NAME	: N/A
MODEL NAME	: G37
CLIENT	: Shenzhen Sande Dacom Electronics Co., Ltd.
DATE OF ISSUE	: Apr. 04, 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 Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Apr. 04, 2018	Valid	Initial release

Report Revise Record

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Applicant	Shenzhen Sande Dacom Electronics Co., Ltd.
Address	2/4/5F, Building I, NO.10 East Area of ShangXue Science&Technology Industrial Park, BanTian street, LongGang district, Shenzhen, China
Manufacturer	Shenzhen Sande Dacom Electronics Co., Ltd.
Address	2/4/5F, Building I, NO.10 East Area of ShangXue Science&Technology Industrial Park, BanTian street, LongGang district, Shenzhen, China
Product Designation	Sport Bluetooth Headset
Brand Name	N/A
Test Model	G37
Date of test	Mar. 25, 2018 to Apr. 03, 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

Harry Zhano

Henry Zhang(Zhang Zhuorui) Apr. 03, 2018

Reviewed By

Forvesto in

Forrest Lei(Lei Yonggang) Apr. 04, 2018

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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
RF Output Power	3.70dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.1 • • • • • • • • • • • • • • • • • • •
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79
Hardware Version	V2
Software Version	V1
Antenna Designation	Ceramic Antenna
Antenna Gain	OdBi
Power Supply	DC 3.7V by battery

The USB port only used for charging and can't be used to transfer data with
The BT function of EUT isn't work when charging.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency
	Barrier O Francisco O Francisc	2402MHz
C The state course of the state		2403MHz
		the The state of t
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
No. No.		The state of the s
A A A A A A A A A A A A A A A A A A A	77	2479 MHz
THE TANGONAL COMMENT	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

NO. **TEST MODE DESCRIPTION** 1 Low channel GFSK 2 Middle channel GFSK 3 High channel GFSK 4 Low channel π /4-DQPSK Middle channel π /4-DQPSK 5 6 High channel π /4-DQPSK 7 Low channel 8DPSK 8 Middle channel 8DPSK 9 High channel 8DPSK 10 **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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	1	Software Set	ting	C The stor of Gi	© The son of Glob
BlueTest3					
lest Mode		Test Arguments			
PAUSE RADIO STATUS RADIO STATUS FULL		LD Freq. (MHz)	2441		Close
TESTART		Power (Ext, Int)	50	50	Execute
TXDATA1 TXDATA2 TXDATA3 TXDATA4					Cold Reset
RISTART1 RISTART2					Loid Keset
REDATA1	×				Warm Reset
REDATA1	Browse fo	r file Disp	olay: @	Standard	
est Results	Browse fo	r file Disp	olay: (ē	Standard	
est Results Save to file Uogfile.txt Sanny USB SPI (60 ansport active.	00384).	Dia	olay: (ē	Standard	
est Results Save to file Vlogfile.txt ening USB SPI (60 ansport active. 7 Ofardware ID On nt Command Varid	00384). x332) firmware ve: 5004, parameters	Dia			
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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

			Ka		Jopal Con
EUT	if on o	Control box	0.04	PC	

5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Sport Bluetooth Headset	Sande Dacom	G37	EUT
2	Battery	HHX	701120	Accessory
3	PC	APPLE	A1465	A.E
4 Control box		CSR	USB_SPI_TOOLS	A.E
5	USB Cable	N/A	1m unshielded	A.E

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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	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, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B		Mar. 01, 2018	Feb. 28, 2020

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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	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency	Distance	Field Strengths 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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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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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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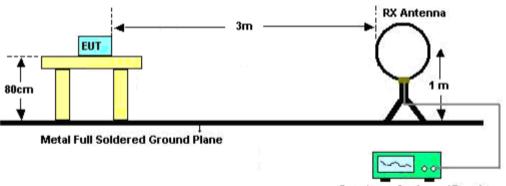


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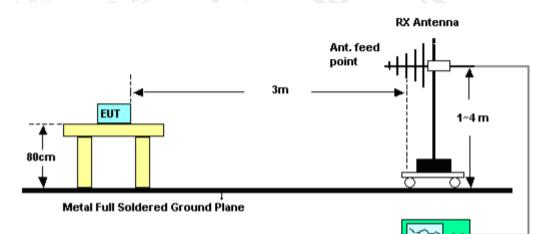
9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



Spectrum Analyzer / Receiver

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



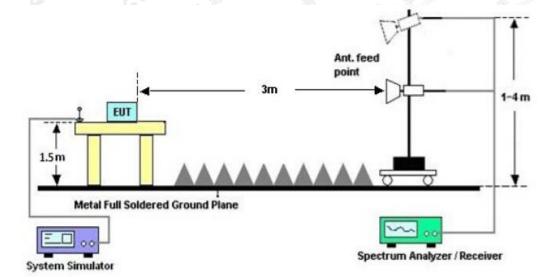
Spectrum Analyzer / Receiver

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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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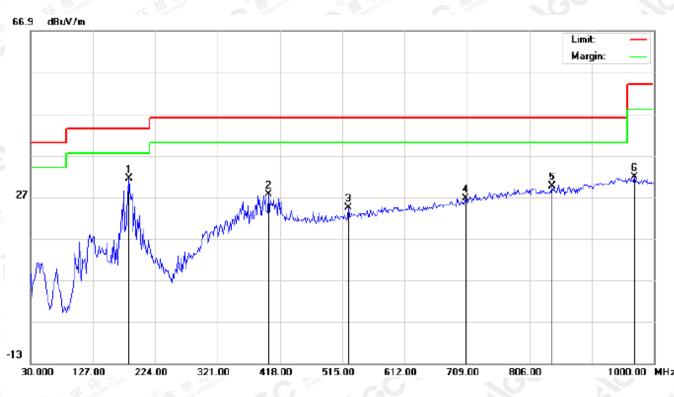
9.4. TEST RESULT

(Worst modulation: GFSK)

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

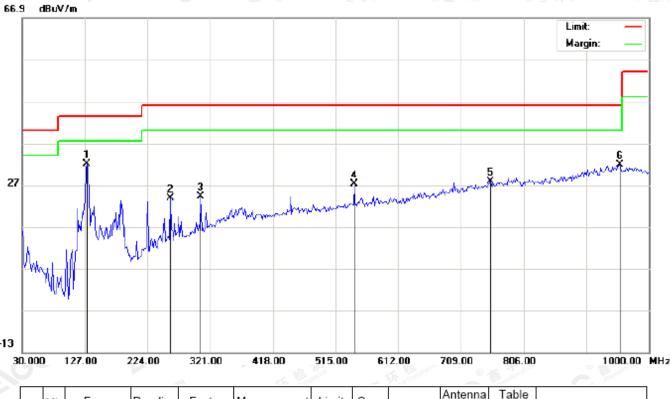


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	183.5833	20.14	11.24	31.38	43.50	-12.12	peak			
2		400.2167	8.44	19.08	27.52	46.00	-18.48	peak			
3		524.7000	2.61	21.80	24.41	46.00	-21.59	peak			
4		707.3832	1.25	25.43	26.68	46.00	-19.32	peak			
5		841.5667	2.32	27.31	29.63	46.00	-16.37	peak			
6		969.2833	1.97	29.81	31.78	54.00	-22.22	peak			

RESULT: PASS

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

No	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	130.2332	20.88	11.13	32.01	43.50	-11.49	peak			
2		259.5667	9.66	14.19	23.85	46.00	-22.15	peak			
3		306.4500	8.46	15.84	24.30	46.00	-21.70	peak			
4		544.1000	4.83	22.32	27.15	46.00	-18.85	peak			
5		754.2667	1.09	26.69	27.78	46.00	-18.22	peak			
6		954.7333	1.80	29.95	31.75	46.00	-14.25	peak			

RESULT: PASS

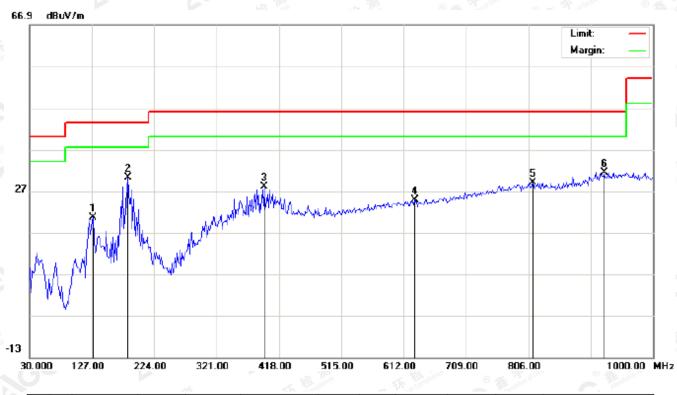
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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

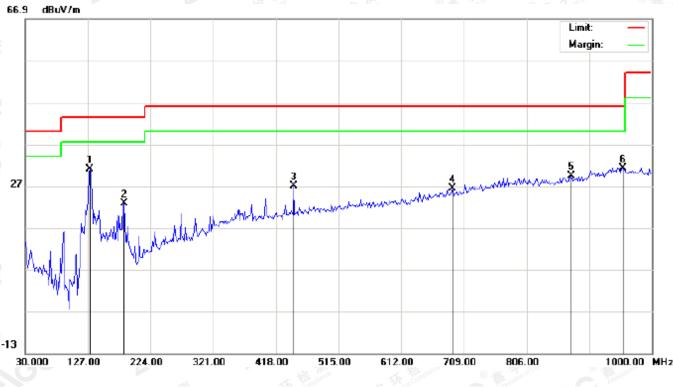
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		128.6167	10.71	9.88	20.59	43.50	-22.91	peak			
2	*	183.5833	19.05	11.24	30.29	43.50	-13.21	peak			
3		395.3667	8.91	19.04	27.95	46.00	-18.05	peak			
4		629.7833	0.95	23.80	24.75	46.00	-21.25	peak			
5		812.4667	1.77	27.32	29.09	46.00	-16.91	peak			
6		924.0167	2.17	29.28	31.45	46.00	-14.55	peak			

RESULT: PASS

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

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
9		•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
2	1	*	130.2332	19.81	11.13	30.94	43.50	-12.56	peak			
	2		183.5833	9.67	13.16	22.83	43.50	-20.67	peak			
	3		445.4833	6.58	20.45	27.03	46.00	-18.97	peak			
	4		691.2167	1.46	24.95	26.41	46.00	-19.59	peak			
	5		875.5167	1.49	27.97	29.46	46.00	-16.54	peak			
1	6		954.7333	1.33	29.95	31.28	46.00	-14.72	peak			

RESULT: PASS

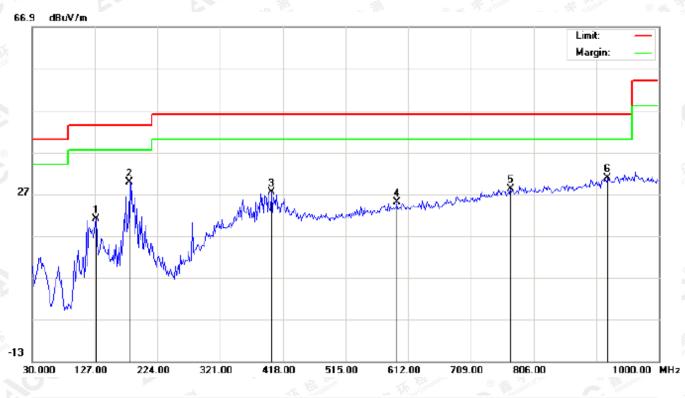
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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

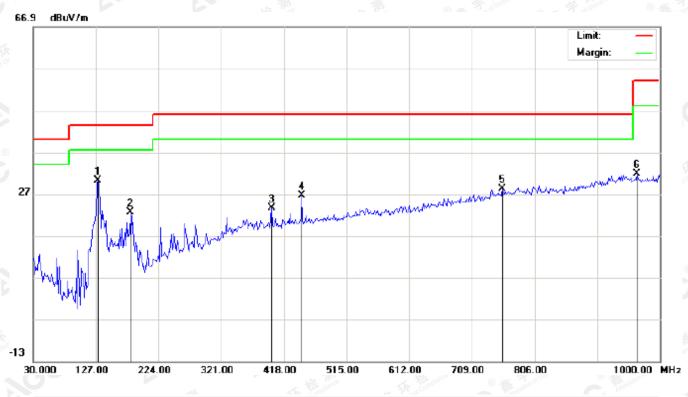
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
3		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
32	1		128.6167	11.05	9.88	20.93	43.50	-22.57	peak			
	2	*	180.3500	18.68	11.09	29.77	43.50	-13.73	peak			
	3		400.2167	8.28	19.08	27.36	46.00	-18.64	peak			
	4		594.2167	1.42	23.59	25.01	46.00	-20.99	peak			
	5		770.4333	1.34	26.91	28.25	46.00	-17.75	peak			
1	6		920.7833	1.69	29.19	30.88	46.00	-15.12	peak			

RESULT: PASS

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

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
3		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
200	1	*	130.2332	19.13	11.13	30.26	43.50	-13.24	peak			
	2		180.3500	8.64	13.98	22.62	43.50	-20.88	peak			
	3		398.6000	4.58	19.06	23.64	46.00	-22.36	peak			
	4		445.4833	6.23	20.45	26.68	46.00	-19.32	peak			
	5		755.8832	1.49	26.71	28.20	46.00	-17.80	peak			
1	6		964.4333	1.99	29.86	31.85	54.00	-22.15	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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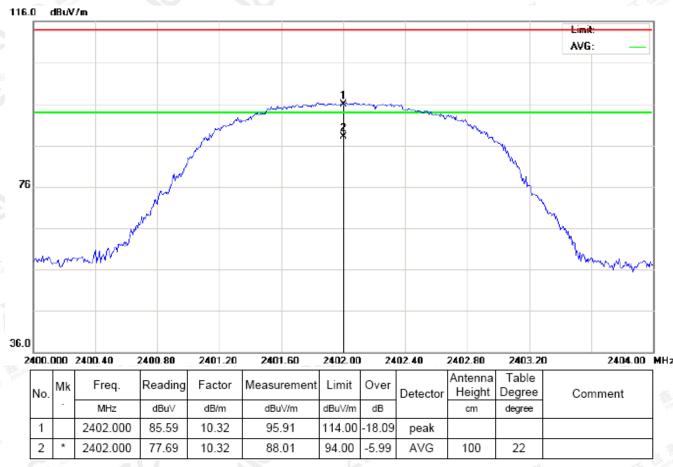
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

For Fundamental

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



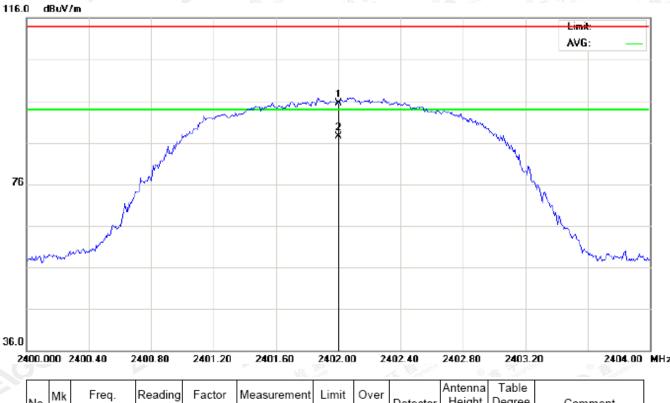
RESULT: PASS

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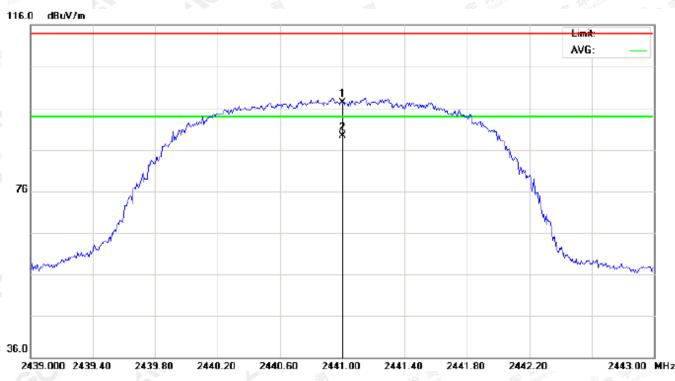
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

	-					D.C.D .		10	IN ALL ALL ALL ALL ALL ALL ALL ALL ALL AL		385-8964	P 13 049
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
100		•	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
Ŭ,	1		2402.000	85.10	10.32	95.42	114.00	-18.58	peak			
	2	*	2402.000	77.18	10.32	87.50	94.00	-6.50	AVG	100	46	
					- 11111		25.25C			LONG ST		TAKENY NON

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	dBuV/m	dBuV/m	dB		cm	degree	
Kat	1		2441.000	86.94	10.36	97.30	114.00	-16.70	peak			
	2	*	2441.000	79.01	10.36	89.37	94.00	-4.63	AVG	100	13	

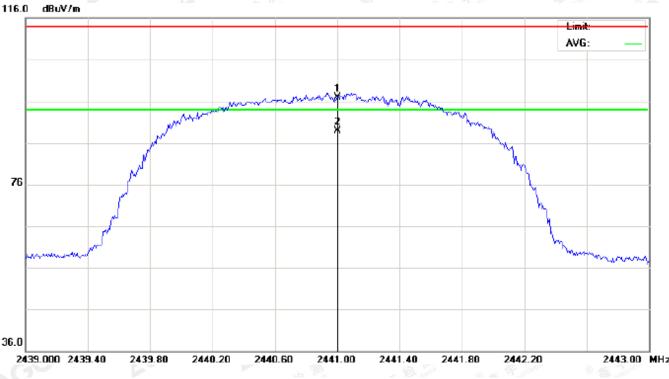
RESULT: PASS

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

N	o.	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	
0 1			2441.000	86.54	10.36	96.90	114.00	-17.10	peak			
2		*	2441.000	78.53	10.36	88.89	94.00	-5.11	AVG	100	18	

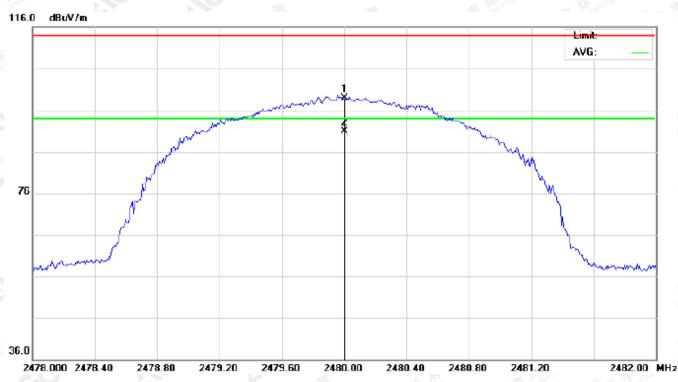
RESULT: PASS

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

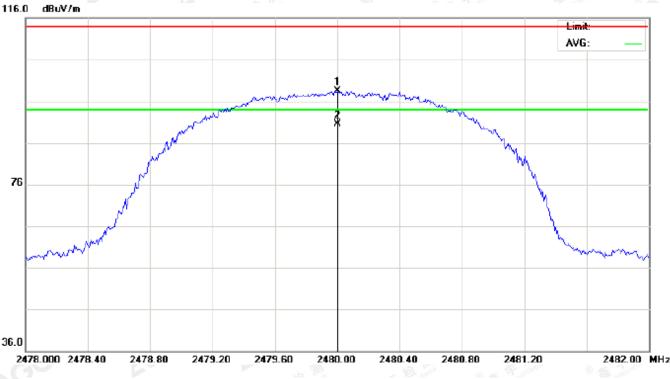
191							. 1912 s		MSL		126 . G	O ASE AND
1	٩o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
20	1		2480.000	88.49	10.41	98.90	114.00	-15.10	peak			
	2	*	2480.000	80.51	10.41	90.92	94.00	-3.08	AVG	100	38	5

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
2	NO.	-	MHz	dBu∨	dB/m	dBu\/m	dBu\//m	dB	Delector	cm	degree	Comment
10	1		2480.000	88.00	10.41	98.41	114.00	-15.59	peak			
	2	*	2480.000	80.02	10.41	90.43	94.00	-3.57	AVG	100	45	

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

Reading Level	Factor	Measurement	Limit	Over	Antenna
(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
85.59	10.32	95.91	114	-18.09	Horizontal
85.10	10.32	95.42	114	-18.58	Vertical
86.94	10.36	97.30	114 🐋	-16.70 📰	Horizontal
86.54	10.36	96.90	114	-17.10	Vertical
88.49	10.41	98.90	114	-15.10	Horizontal
88.00	10.41	98.41	114	-15.59	Vertical
	Level (dBuv) 85.59 85.10 86.94 86.54 88.49	Level Factor (dBuv) (dB/m) 85.59 10.32 85.10 10.32 86.94 10.36 86.54 10.36 88.49 10.41	LevelFactorMeasurement(dBuv)(dB/m)(dBuv/m)85.5910.3295.9185.1010.3295.4286.9410.3697.3086.5410.3696.9088.4910.4198.90	LevelFactorMeasurementLimit(dBuv)(dB/m)(dBuv/m)(dBuv/m)85.5910.3295.9111485.1010.3295.4211486.9410.3697.3011486.5410.3696.9011488.4910.4198.90114	LevelFactorMeasurementLimitOver(dBuv)(dB/m)(dBuv/m)(dBuv/m)(dB)85.5910.3295.91114-18.0985.1010.3295.42114-18.5886.9410.3697.30114-16.7086.5410.3696.90114-17.1088.4910.4198.90114-15.10

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	77.69	10.32	88.01	94	-5.99	Horizontal	
2402	77.18	10.32	87.50	94	-6.50	Vertical	
2441	79.01	10.36	89.37	94	-4.63	Horizontal	
2441	78.53	10.36	88.89	94	-5.11	Vertical	
2480	80.51	10.41	90.92	94	-3.08	Horizontal	
2480	80.02	10.41	90.43	94	-3.57	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	85.12	10.32	95.44	114	-18.56	Horizontal	
2402	84.65	10.32	94.97	114	-19.03	Vertical	
2441	86.46	10.36	96.82	114	-17.18	Horizontal	
2441	86.12	10.36	96.48	114	-17.52	Vertical	
2480	88.04	10.41	98.45	114	-15.55	Horizontal	
2480	87.54	10.41	97.95	114	-16.05	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	77.25	10.32	87.57	94	-6.43	Horizontal	
2402	76.74	10.32	87.06	94	-6.94	Vertical	
2441	78.54	10.36	88.90	94	-5.10	Horizontal	
2441	78.08	10.36	88.44	94	-5.56	Vertical	
2480	80.04	10.41	90.45	94	-3.55	Horizontal	
2480	79.60	10.41	90.01	94	-3.99	Vertical	

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3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	84.69	10.32	95.01	114	-18.99	Horizontal	
2402	84.21	10.32	94.53	114	-19.47	Vertical	
2441	86.03	10.36	96.39	114	-17.61	Horizontal	
2441	85.63	10.36	95.99	114	-18.01 👝	Vertical	
2480	87.55	10.41	97.96	114	-16.04	Horizontal	
2480	87.11	10.41	97.52	114	-16.48	Vertical	

Average value

Frequency	Reading Level Facto		Factor Measurement		Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	76.81	10.32	87.13	94	-6.87	Horizontal	
2402	76.27	10.32	86.59	94	-7.41	Vertical	
2441	78.14	10.36	88.50	94	-5.50	Horizontal	
2441	77.60	10.36	87.96	94	-6.04	Vertical	
2480	79.55	10.41	89.96	94	-4.04	Horizontal	
2480	79.11	10.41	89.52	94	-4.48	Vertical	

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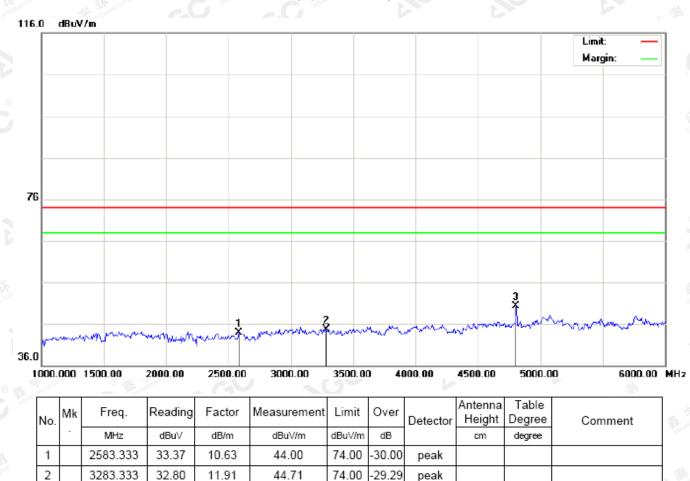


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(Worst modulation: GFSK)

For Harmonics

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



74.00

23.6

peak

RESULT: PASS

3

4804.000

7.69

42.71

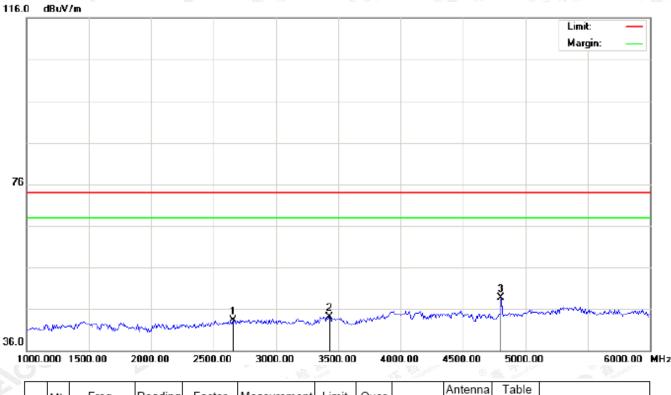
50.40

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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
ġ	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2658.333	32.47	10.81	43.28	74.00	-30.72	peak			
2		3433.333	32.04	12.05	44.09	74.00	-29.91	peak			
3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

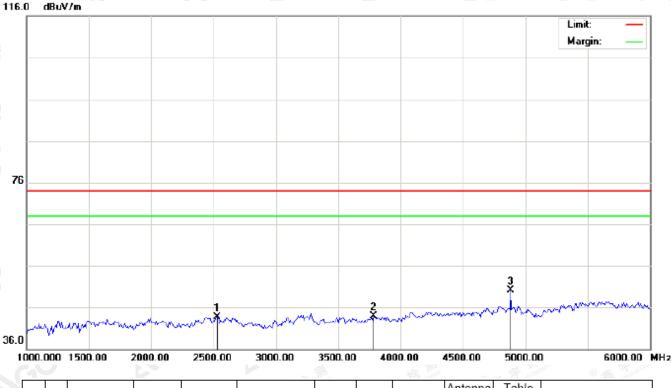
RESULT: PASS

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

N	o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	I		2533.333	33.18	10.51	43.69	74.00	-30.31	peak			
2	2		3783.333	30.02	13.86	43.88	74.00	-30.12	peak			
3	3	*	4882.000	42.16	7.89	50.05	74.00	-23.95	peak			

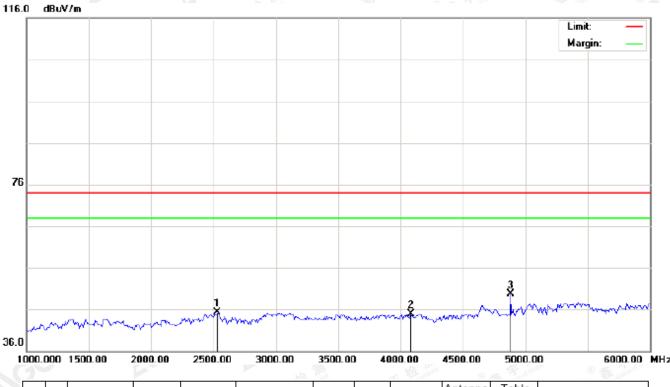
RESULT: PASS

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

•	٩o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
str.	1		2533.333	34.83	10.51	45.34	74.00	-28.66	peak			
Γ	2		4083.333	31.14	13.81	44.95	74.00	-29.05	peak			
	3	*	4882.000	41.89	7.89	49.78	74.00	-24.22	peak			

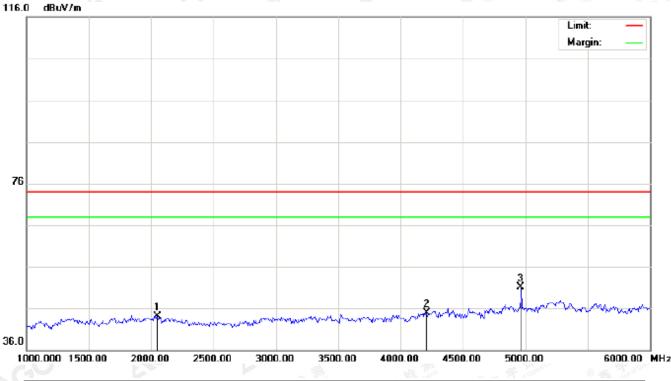
RESULT: PASS

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RADIATED EMISSION TEST-	(ABOVE 1GHz	7)-HIGH CHANN	JEI -HORIZONTAL

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$. Pa 17						- JE-PDL	
MHz dBu/v dB/m dBu/v/m dBu/v/m dB cm degree 1 2050.000 34.12 9.93 44.05 74.00 -29.95 peak 2 4208.333 33.12 11.73 44.85 74.00 -29.15 peak		No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over				Comment
2 4208.333 33.12 11.73 44.85 74.00 -29.15 peak	~		•	MHz	dBu∀	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
2 4200.333 33.12 11.13 44.05 14.00 -29.15 peak	1. 19	1		2050.000	34.12	9.93	44.05	74.00	-29.95	peak			
3 * 4960.000 43.10 8.09 51.19 74.00 -22.81 peak		2		4208.333	33.12	11.73	44.85	74.00	-29.15	peak			
		3	*	4960.000	43.10	8.09	51.19	74.00	-22.81	peak			

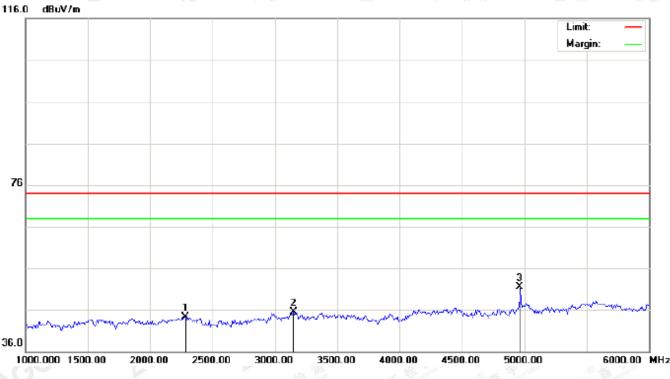
RESULT: PASS

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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
ą	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2283.333	34.05	10.19	44.24	74.00	-29.76	peak			
2		3150.000	33.64	11.78	45.42	74.00	-28.58	peak			
3	*	4960.000	43.41	8.09	51.50	74.00	-22.50	peak			

RESULT: PASS

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

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

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

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10. BAND EDGE EMISSION

10.1. MEASUREMENT PROCEDURE

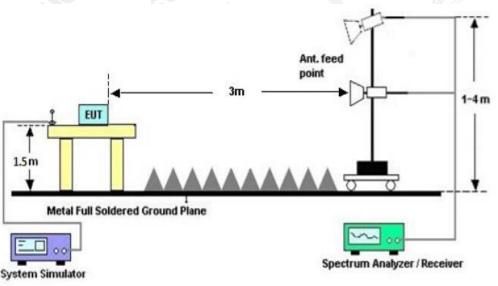
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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.

Star	t frequency(MH	z)	Stop frequency(MHz)		
THE REAL	2200	「「	noe C Franci	2405	SCC.
C Station of Global	2478	C Stiestellon of GOU	GC "	2500	
P No	Allast				200

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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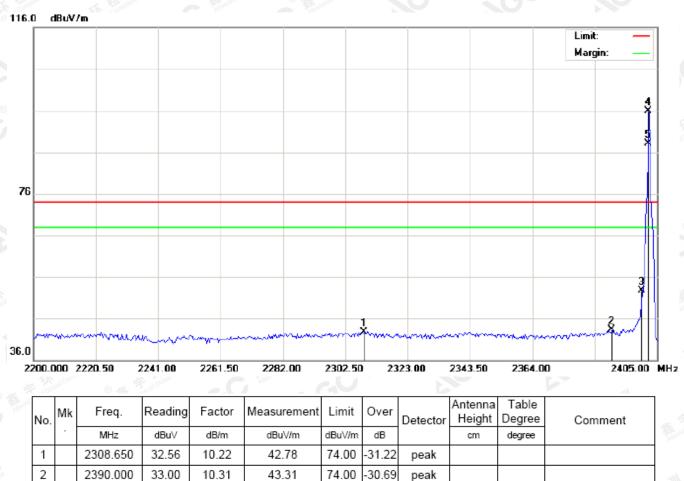


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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



74.00

74.00

74.00

21.21

21.93

14.03

peak

peak

AVG

100

24

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3

4

5 | X

2400.000

2402.000

2402.000

42.47

85.61

77.71

10.32

10.32

10.32

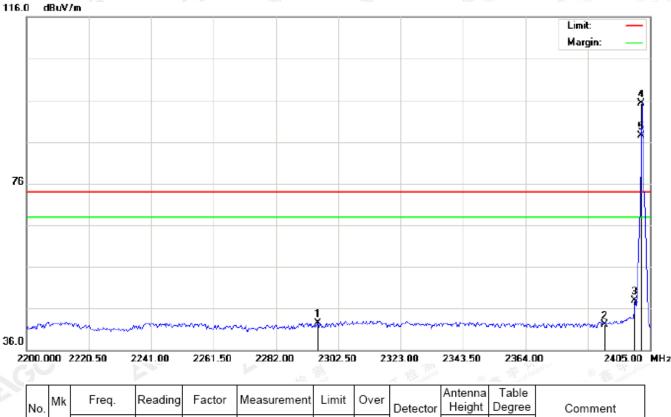
52.79

95.93

88.03



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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

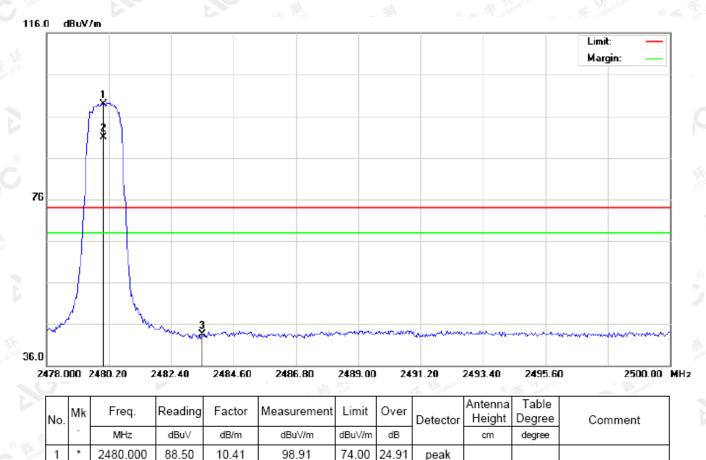
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
XX		-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree		
31	1		2295.667	32.23	10.21	42.44	74.00	-31.56	peak				
	2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak).
	3		2400.000	37.56	10.32	47.88	74.00	-26.12	peak				j.
	4	*	2402.000	85.07	10.32	95.39	74.00	21.39	peak				
	5	Х	2402.000	77.19	10.32	87.51	74.00	13.51	AVG	100	39		52

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74.00

74.00

16.90

-30.40

AVG

peak

100

18

90.90

43.60

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

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2480.000

2483.500

2 X

3

80.49

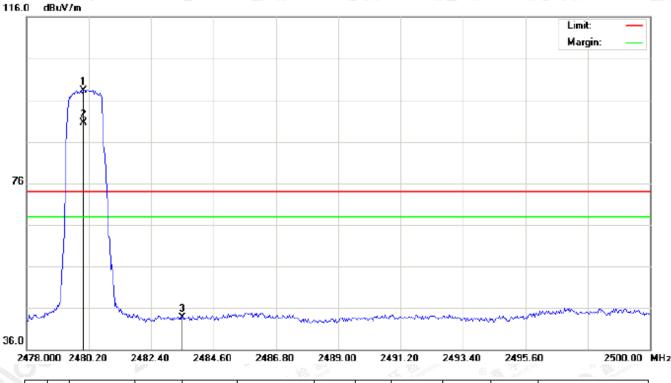
33.19

10.41

10.41



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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
3	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	87.94	10.41	98.35	74.00	24.35	peak			
2	Х	2480.000	80.00	10.41	90.41	74.00	16.41	AVG	100		
3		2483.500	33.26	10.41	43.67	74.00	-30.33	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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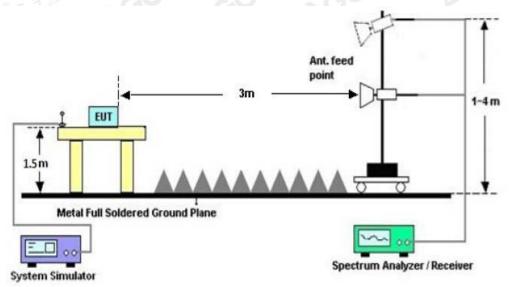
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11. 20DB BANDWIDTH

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 \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								
	ement Result							
Applicable Limits		Decult						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
the The second second	Low Channel	0.933	1.094	PASS				
N/A	Middle Channel	0.934	1.109	PASS				
	High Channel	0.935	1.084	PASS				

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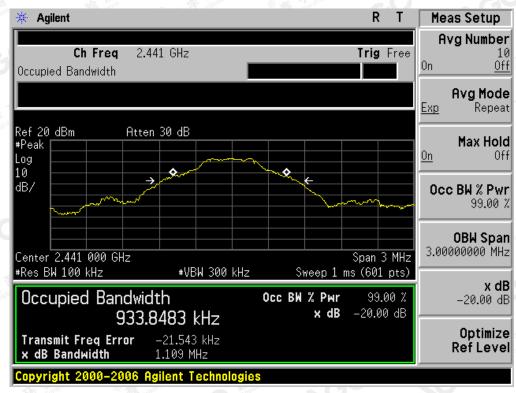


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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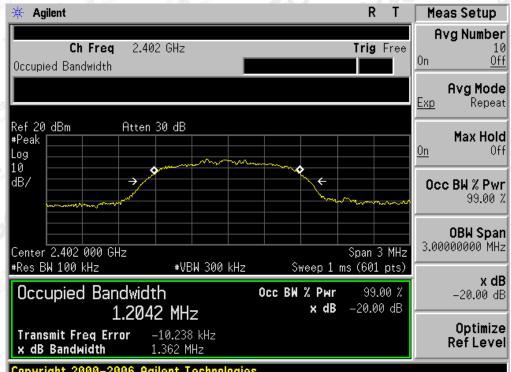
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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BLUET	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT				
		Measure	Measurement Result				
Applicable Limits		Decult					
		99%OBW (MHz)	-20dB BW(MHz)	Result			
The second second	Low Channel	1.204	1.362	PASS			
N/A	Middle Channel	1.208	1.370	PASS			
SGC "	High Channel	1.199	1.370	PASS			
	10-	-100	M. M.	obu Alle			

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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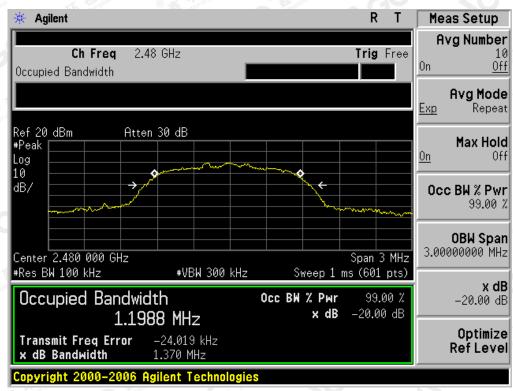
测

检



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



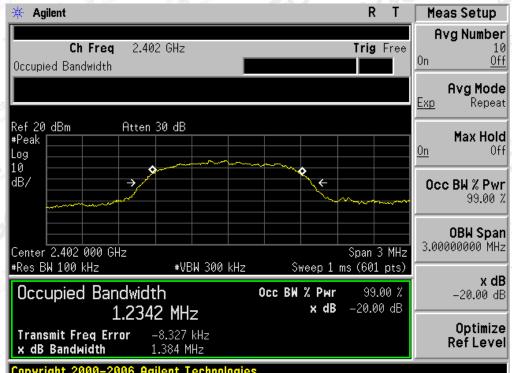
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BLUET	OOTH 3MBPS LIN	ITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Day K						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The the second second	Low Channel	1.234	1.384	PASS				
N/A	Middle Channel	1.216	1.371	PASS				
	High Channel	1.214	1.370	PASS				

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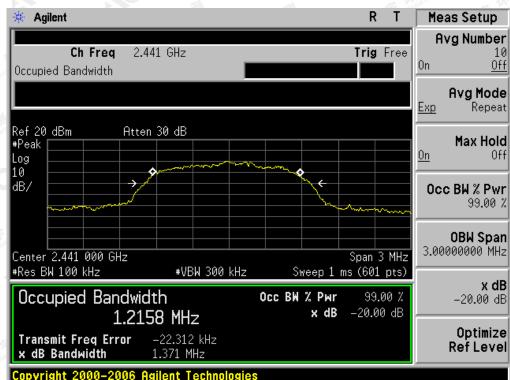
GC

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



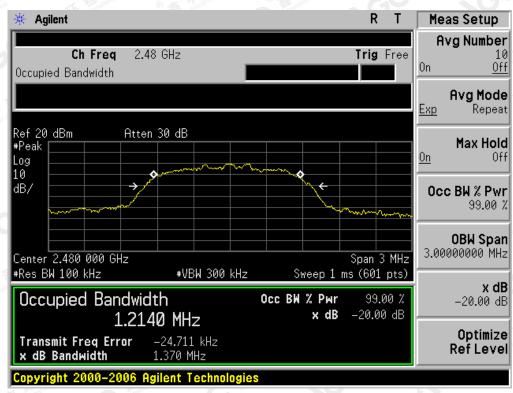
The results show of this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by ACC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attraction.





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

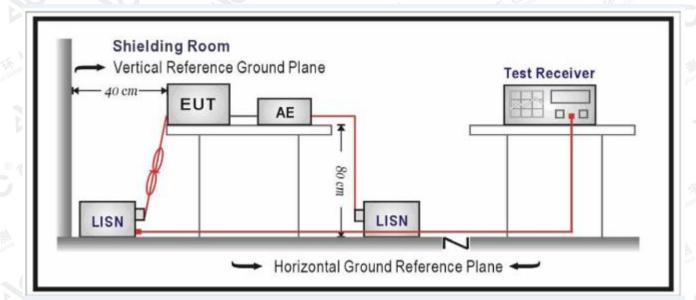
Francisco	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	© 56 56 °	46					
5MHz~30MHz	60	50					

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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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.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

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

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP

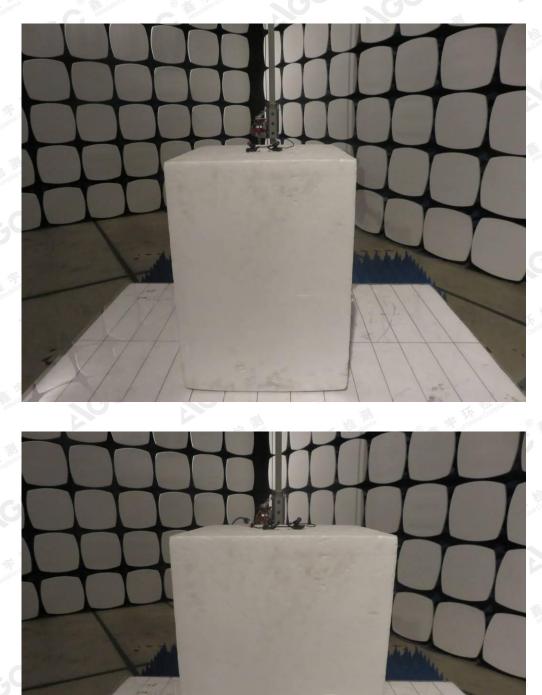




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APPENDIX B: PHOTOGRAPHS OF EUT TOP VIEW OF EUT

BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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VIEW OF EUT (PORT)



OPEN VIEW OF EUT



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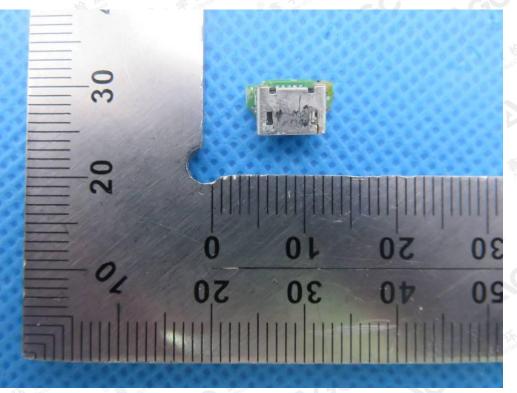


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VIEW OF BATTERY



INTERNAL VIEW OF EUT-1



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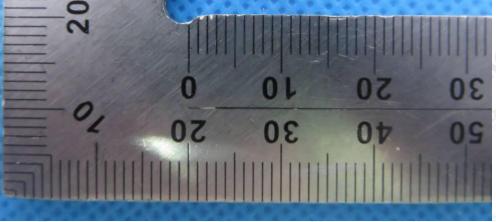


30

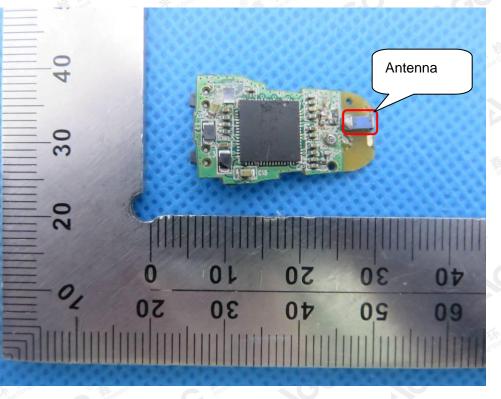
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INTERNAL VIEW OF EUT-2





INTERNAL VIEW OF EUT-3



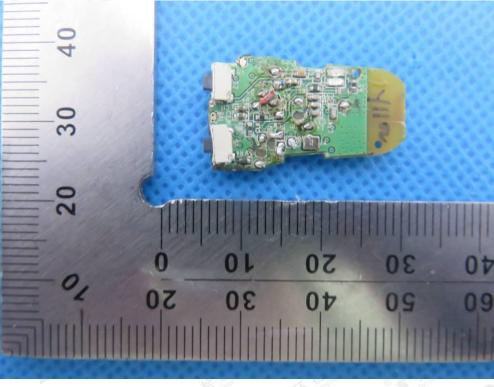
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INTERNAL VIEW OF EUT-4



INTERNAL VIEW OF EUT-5



----END OF REPORT----

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