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FCC Test Report

Report No.: AGC02457180508FE03

FCC ID	0	2AOKX-SS-IE012B
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	3lobal	Cobra Bluetooth Earbuds
BRAND NAME		SWETZSOUND
MODEL NAME	3 1	See page 4
CLIENT	ł	Shenzhen Swetz Sound Technology Co., Limited
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

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

Report Revise Record

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Swetz Sound Technology Co., Limited			
Address	No.18 Xiantian Road, Longgang Central Shenzhen China			
Manufacturer	Shenzhen Swetz Sound Technology Co., Limited			
Address	No.18 Xiantian Road, Longgang Central Shenzhen China			
Product Designation	Cobra Bluetooth Earbuds			
Brand Name	SWETZSOUND			
Test Model	SS-IE012B			
Series Model	SS-IE042B, SS-IE013B, SS-IE021B, SS-IE005B, SS-IE016B, SS-IE027B, 247949, MMEB-16/0335, BTEP-0480B, BTEP-0481W, xc-bth-10, BT646, CYO-TE008, CYO-TE007, 113020, SY-X1235BTR, SY-X1235BTP, SY-X1235BTA, BLP4600-003			
Difference description	All the same except for the model name and appearance color			
Date of test	May 21, 2018 to May 29, 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.

ested By

Jonhan Wand

Jonhen Wang(Wang Yonghuan) May 29, 2018

well chang

Reviewed By

Cool Cheng(Cheng Mengguo) Ju

June 01, 2018

-owest in

Approved By

Forrest Lei(Lei Yonggang)

June 01, 2018

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Authorized Officer

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2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

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Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-2.07dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2 • State •
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79
Hardware Version	V1.4
Software Version	V1.2
Antenna Designation	PCB Antenna
Antenna Gain	-0.5dBi
Power Supply	DC 3.7V by battery
Note: 1 The USB port only use	ed for charging and can't be used to transfer data with PC

The USB port only used for charging and can't be used to transfer data with PC.

2. 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		
	the man of the sound of the sou	2402MHz		
6 A Jan a constant		2403MHz		
		Alt Internet		
	38	2440 MHz		
2400~2483.5MHz	39	2441 MHz		
and comments	40	2442 MHz		
		A BANK AND A REAL		
	77	2479 MHz		
E A Const Convert	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

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

4. DESCRIPTION OF TEST MODES

Note:

10

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.

BT Link

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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BK3256 RF Test (件 C) 帮助 (L)	- V1.3				
RF测试					-
	通讯端口 COM	3 🔽 🔵 🖸 Clos	e		
RF测试 仪器测试 DVT测试模式		TX RX • • ○ ○ 数据类型 PnG • □ Hopping 包类型 DH1			
Serial port config), databits: 8, stopbits: 1, j	parity: 0		
備5 [attach 0] IS saradc_charger_ful init finished		,, ,, ,, , ,			
Bluetooth controll IA [CMD] singlewave t app bt enable dut	er enabled: 12:34:56 est mode enable mode()	3:66:54:13		=	
OK app_wave_file_play Bluetooth controll [disable_complete Enter Dut test mod	stop() er disabled: 12:34:5 0 00] le success!		1. 1		
[CMD] test mode co EVT TEST MODE STAR	nfig, d_mode: 1, freq T	q: 2, power level: 2, p_mode:	l, hopping: U.	~	

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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

			·Con		Jobal Col.
EUT	Haton	Control box	0.0.	PC	N

5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
10	Cobra Bluetooth Earbuds	SWETZSOUND	SS-IE012B	EUT
2	Battery	JYZ	350926	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	BEKEN	N/A	A.E
5	USB Cable	N/A	1m unshielded	A.E
6	IPOD	APPLE	A1367	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	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

		and here and			(C) the solo of	
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	June 6, 2017	June 5, 2018	
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018	
Loop Antenna	A.H.Systems,Inc	SAS-562B	station of Give	Mar. 01, 2018	Feb. 28, 2019	
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2017	Jun.19, 2018	

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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 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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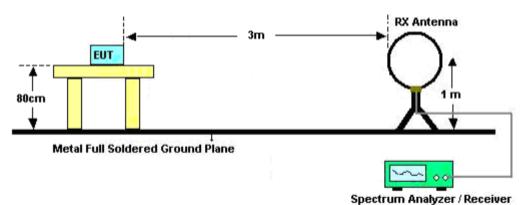


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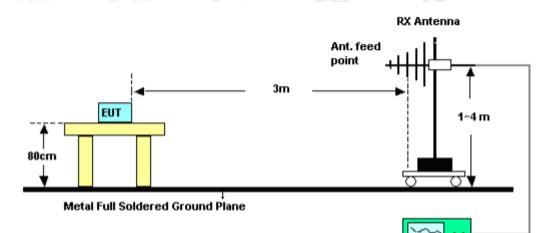
9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



100-0

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



CC NGC AND

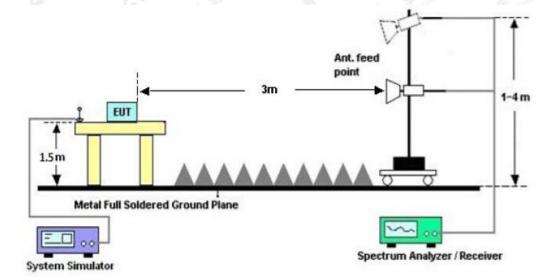
Spectrum Analyzer / Receiver

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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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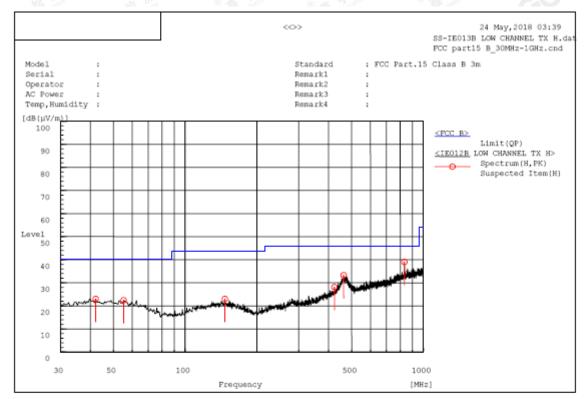
9.4. TEST RESULT

(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



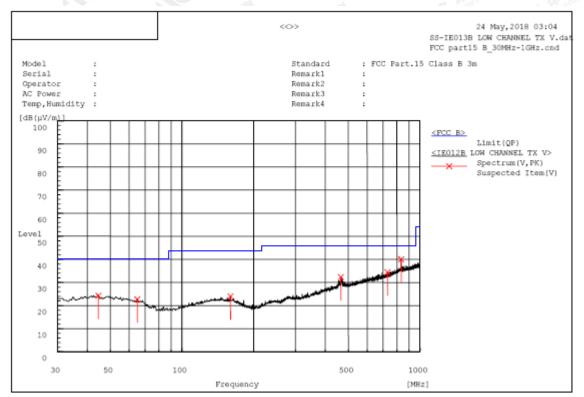
A. Suspected List:

1	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	
	42.125	Н	5.6	17.4	23.0	40.0	17.0	Pass	200.0	109.8	0
	55.220	н	5.8	16.7	22.5	40.0	17.5	Pass	150.0	289.2	
	146.885	Н	6.4	16.6	23.0	43.5	20.5	Pass	100.0	92.3	
	423.335	Н	6.7	21.5	28.2	46.0	17.8	Pass	200.0	215.5	
	463.105	Н	11.0	22.3	33.3	46.0	12.7	Pass	200.0	215.5	
	833.160	н	9.7	29.3	39.0	46.0	7.0	Pass	200.0	286.9	

RESULT: PASS

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

A. Suspected List:

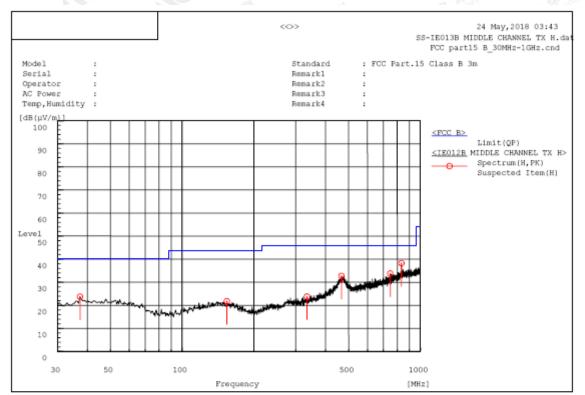
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
44.550	v	7.0	17.3	24.3	40.0	15.7	Pass	100.0	358.5
64.920	v	7.1	15.6	22.7	40.0	17.3	Pass	100.0	358.5
159.980	v	7.4	16.6	24.0	43.5	19.5	Pass	150.0	190.6
465.530	v	10.0	22.3	32.3	46.0	13.7	Pass	200.0	95.8
730.340	v	7.4	27.0	34.4	46.0	11.6	Pass	100.0	358.5
834.130	v	10.8	29.3	40.1	46.0	5.9	Pass	100.0	358.5

RESULT: PASS

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

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

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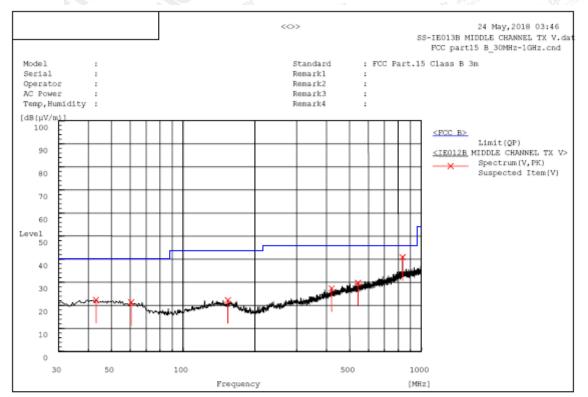
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

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	1
	37.275	Н	6.8	16.9	23.7	40.0	16.3	Pass	150.0	217.2	121 0
	154.160	Н	5.2	16.6	21.8	43.5	21.7	Pass	150.0	287.9	
	334.580	Н	5.5	18.3	23.8	46.0	22.2	Pass	150.0	287.9	I.S.
1	466.500	Н	10.3	22.4	32.7	46.0	13.3	Pass	150.0	287.9	
	747.315	Н	6.4	27.4	33.8	46.0	12.2	Pass	200.0	91.7	1
	833.645	н	9.0	29.3	38.3	46.0	7.7	Pass	150.0	36.6	0

RESULT: PASS

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

A. Suspected List:

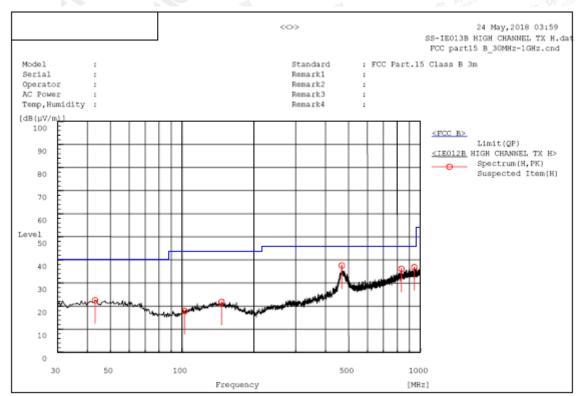
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
43.095	v	4.9	17.4	22.3	40.0	17.7	Pass	200.0	325.4
60.555	v	5.2	16.1	21.3	40.0	18.7	Pass	100.0	267.7
154.160	v	5.6	16.6	22.2	43.5	21.3	Pass	150.0	71.4
420.425	v	5.9	21.4	27.3	46.0	18.7	Pass	150.0	324.9
542.645	v	6.0	23.7	29.7	46.0	16.3	Pass	150.0	252.8
834.130	v	11.5	29.3	40.8	46.0	5.2	Pass	200.0	109.1

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.

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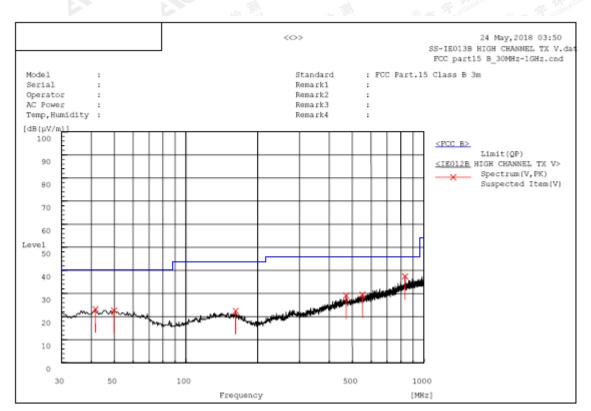
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

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
43.095	Н	5.1	17.4	22.5	40.0	17.5	Pass	200.0	1.7
102.265	Н	4.2	13.7	17.9	43.5	25.6	Pass	150.0	250.7
146.400	н	5.2	16.6	21.8	43.5	21.7	Pass	100.0	110.1
468.440	Н	15.2	22.4	37.6	46.0	8.4	Pass	150.0	287.8
833.645	Н	6.8	29.3	36.1	46.0	9.9	Pass	150.0	105.8
943.740	н	6.3	30.6	36.9	46.0	9.1	Pass	100.0	181.5

RESULT: PASS

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

A. Suspected List:

	Frequency MHz	Polarization	Polarization Reading dB(uV)		Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
Γ	41.640	v	5.8	17.4	23.2	40.0	16.8	Pass	200.0	91.0
$\left[\right]$	49.885	v	5.5	17.1	22.6	40.0	17.4	Pass	200.0	91.0
Γ	161.920	v	5.9	16.6	22.5	43.5	21.0	Pass	150.0	111.3
K S	471.350	v	6.7	22.4	29.1	46.0	16.9	Pass	150.0	289.2
	551.860	v	5.6	23.9	29.5	46.0	16.5	Pass	150.0	217.8
	833.645	v	8.1	29.3	37.4	46.0	8.6	Pass	100.0	179.4

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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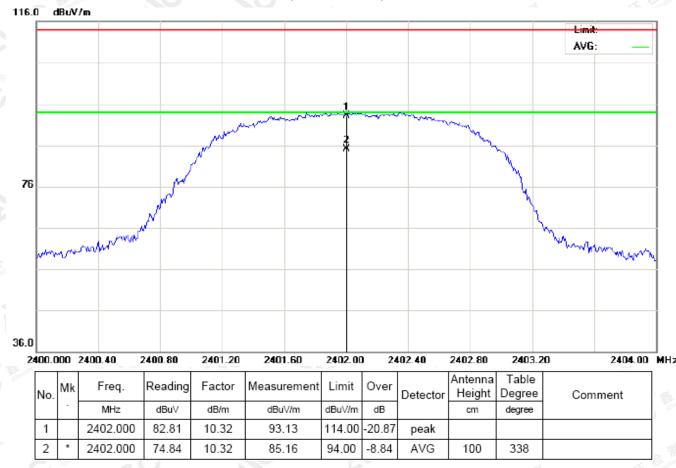
Report No.: AGC02457180508FE03 Page 24 of 59

RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

For Fundamental

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



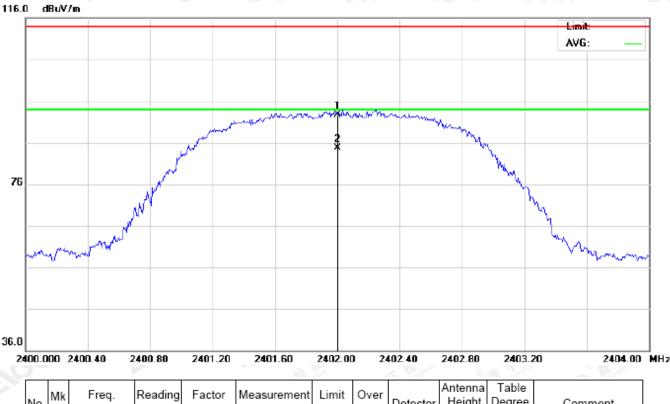
RESULT: PASS

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

							10 miles			· · · · · · · · · · · · · · · · · · ·		
A.	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	
jų,	1		2402.000	82.40	10.32	92.72	114.00	-21.28	peak			
	2	*	2402.000	74.31	10.32	84.63	94.00	-9.37	AVG	100	152	
					- 10111		15.15C - 11.0		1000	LONG ST		TACINE HOW C

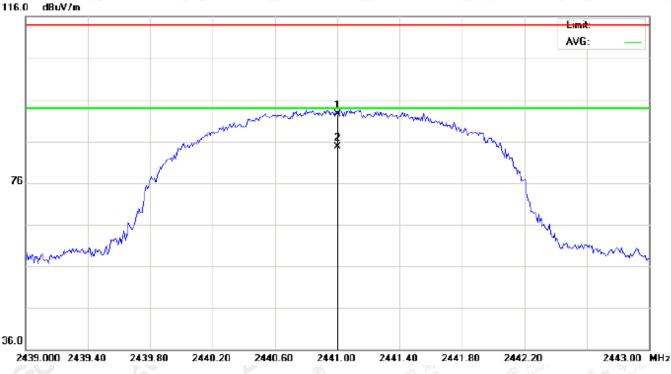
RESULT: PASS

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

						P	517.5		MARIE CO		1210 . GIV	C Alle int
	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	
TT IN	1		2441.000	82.18	10.36	92.54	114.00	-21.46	peak			
	2	*	2441.000	74.26	10.36	84.62	94.00	-9.38	AVG	100	341	

RESULT: PASS

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

36.0

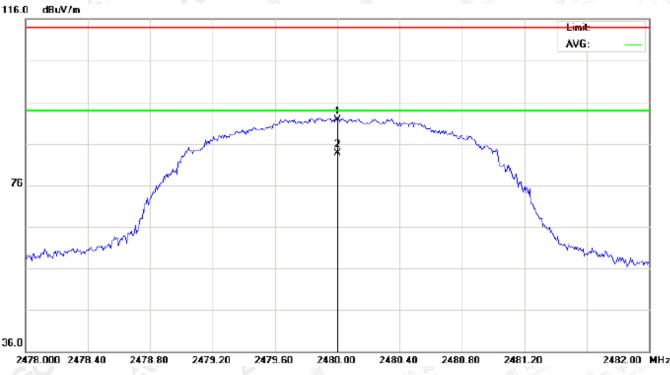
24	39.0	00	2439.40	2439.80	2440.20	2440.60	2441.00	24	41.40	2441.80	2442.20	0 2443.00	MHz
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	oal
		-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree		
	1		2441.000	81.68	10.36	92.04	114.00	-21.96	peak				
	2	*	2441.000	73.73	10.36	84.09	94.00	-9.91	AVG	100	155		

RESULT: PASS

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

12							2011.3		Merce		126 . G	C Alle and
	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	
Fr attr	1		2480.000	81.37	10.41	91.78	114.00	-22.22	peak			
	2	*	2480.000	73.39	10.41	83.80	94.00	-10.20	AVG	100	334	

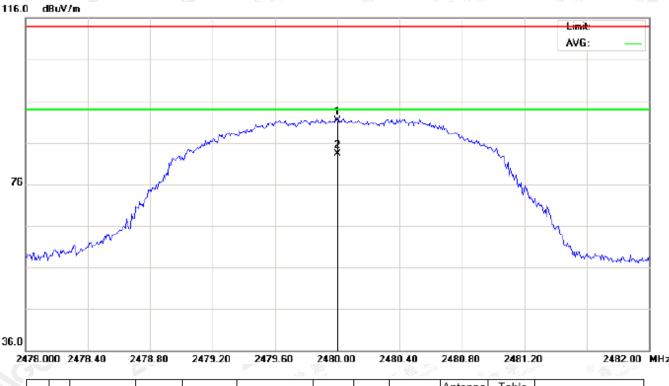
RESULT: PASS

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

						with 170		2 N. A.		IV.I 2002 AV		P\$4.5P*
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		•	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
310	1		2480.000	80.89	10.41	91.30	114.00	-22.70	peak			
	2	*	2480.000	72.91	10.41	83.32	94.00	-10.68	AVG	100	161	

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
82.81	10.32	93.13	114	-20.87	Horizontal
82.40	10.32	92.72	114	-21.28	Vertical
82.18	10.36	92.54	114 🧄	-21.46	Horizontal
81.68	10.36	92.04	114	-21.96	Vertical
81.37	10.41	91.78	114	-22.22	Horizontal
80.89	10.41	91.30	114	-22.70	Vertical
	Level (dBuv) 82.81 82.40 82.18 81.68 81.37	Level Factor (dBuv) (dB/m) 82.81 10.32 82.40 10.32 82.18 10.36 81.68 10.36 81.37 10.41	LevelFactorMeasurement(dBuv)(dB/m)(dBuv/m)82.8110.3293.1382.4010.3292.7282.1810.3692.5481.6810.3692.0481.3710.4191.78	LevelFactorMeasurementLimit(dBuv)(dB/m)(dBuv/m)(dBuv/m)82.8110.3293.1311482.4010.3292.7211482.1810.3692.5411481.6810.3692.0411481.3710.4191.78114	LevelFactorMeasurementLimitOver(dBuv)(dB/m)(dBuv/m)(dBuv/m)(dB)82.8110.3293.13114-20.8782.4010.3292.72114-21.2882.1810.3692.54114-21.4681.6810.3692.04114-21.9681.3710.4191.78114-22.22

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	74.84	10.32	85.16	94	-8.84	Horizontal
2402	74.31	10.32	84.63	94	-9.37	Vertical
2441	74.26	10.36	84.62	94	-9.38	Horizontal
2441	73.73	10.36	84.09	94	-9.91	Vertical
2480	73.39	10.41	83.80	94	-10.20	Horizontal
2480	72.91	10.41	83.32	94	-10.68	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	82.39	10.32	92.71	114	-21.29	Horizontal
2402	82.09	10.32	92.41	114	-21.59	Vertical
2441	81.85	10.36	92.21	114	-21.79	Horizontal
2441	81.25	10.36	91.61	114	-22.39	Vertical
2480	81.02	10.41	91.43	114	-22.57	Horizontal
2480	80.44	10.41	90.85	114	-23.15	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	74.35	10.32	84.67	94	-9.33	Horizontal
2402	74.05	10.32	84.37	94	-9.63	Vertical
2441	73.79	10.36	84.15	94	-9.85	Horizontal
2441	73.24	10.36	83.60	94	-10.40	Vertical
2480	73.00	10.41	83.41	94	-10.59	Horizontal
2480	72.53	10.41	82.94	94	-11.06	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	82.01	10.32	92.33	114	-21.67	Horizontal	
2402	81.76	10.32	92.08	114	-21.92	Vertical	
2441	81.54	10.36	91.90	114	-22.10	Horizontal	
2441	80.79	10.36	91.15	114	-22.85	Vertical	
2480	80.57	10.41	90.98	114	-23.02	Horizontal	
2480	80.07	10.41	90.48	114	-23.52	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.85	10.32	84.17	94	-9.83	Horizontal
2402	73.62	10.32	83.94	94	-10.06	Vertical
2441	73.37	10.36	83.73	94	-10.27	Horizontal
2441	72.77	10.36	83.13	94	-10.87	Vertical
2480	72.60	10.41	83.01	94	-10.99	Horizontal
2480	72.09	10.41	82.50	94	-11.50	Vertical

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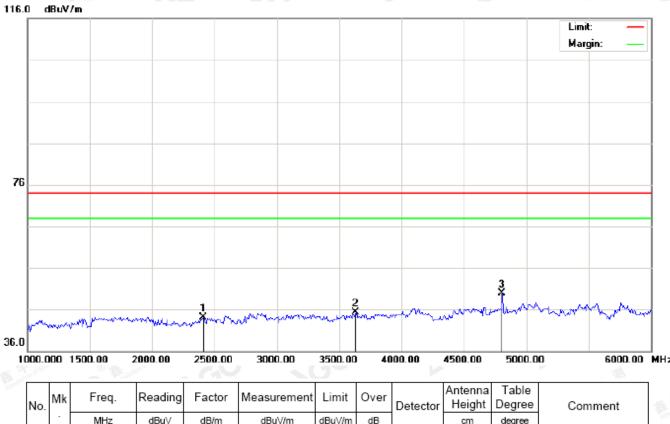


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(Worst modulation: GFSK)

For Harmonics

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



NO.		-	_					Detector	пеідпі	Degree	Comment	L
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree		
1		2408.333	33.82	10.33	44.15	74.00	-29.85	peak				
2		3633.333	32.44	12.93	45.37	74.00	-28.63	peak				N
3	*	4804.000	42.21	7.69	49.90	74.00	-24.10	peak				1.20

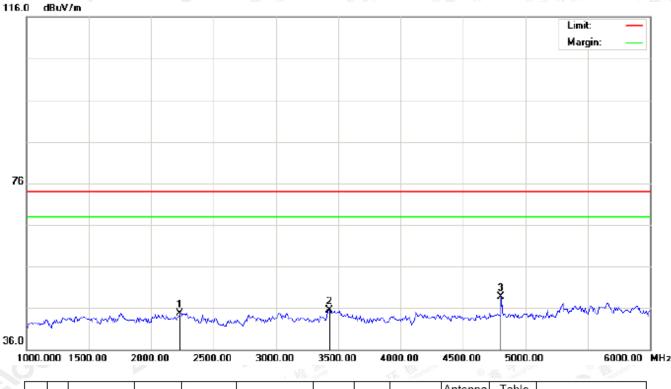
RESULT: PASS

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

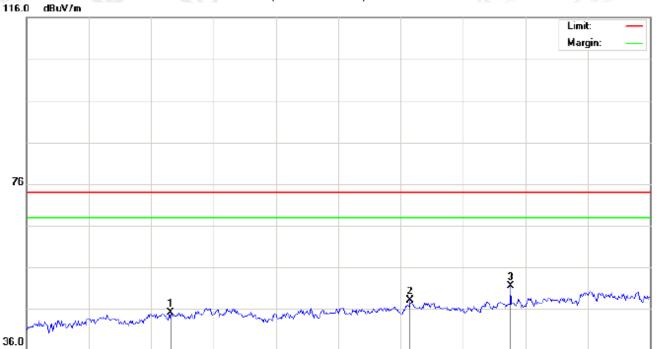
N	٩o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
×		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
3	1		2233.333	34.55	10.14	44.69	74.00	-29.31	peak			
	2		3433.333	33.54	12.05	45.59	74.00	-28.41	peak			
	3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

RESULT: PASS

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

10	00.0	00	1500.00	2000.00	2500.00	3000.00	3500.00	40	00.00	4500.00	5000.00	6000.00	MHz
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	³ Con
		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree		9
	1		2158.333	35.08	10.05	45.13	74.00	-28.87	peak				1
1	2		4075.000	34.19	13.94	48.13	74.00	-25.87	peak				1
	3	*	4882.000	43.66	7.89	51.55	74.00	-22.45	peak				1

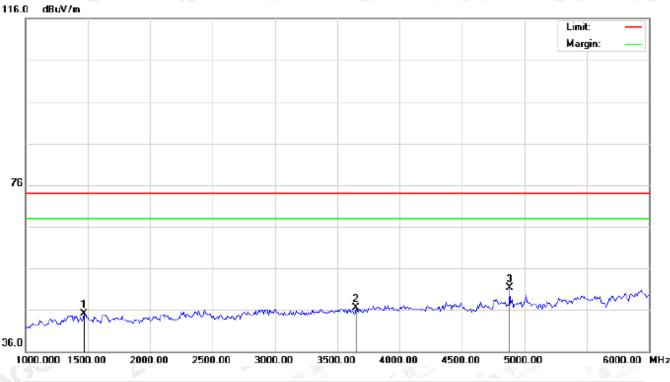
RESULT: PASS

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

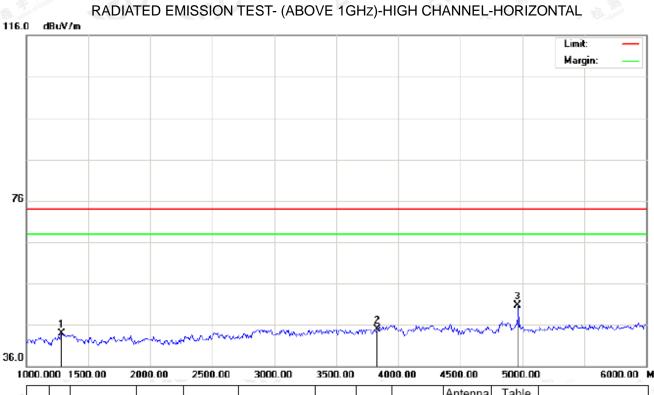
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		1466.667	40.46	4.61	45.07	74.00	-28.93	peak			
2		3650.000	33.56	13.03	46.59	74.00	-27.41	peak			
3	*	4882.000	43.39	7.89	51.28	74.00	-22.72	peak			

RESULT: PASS

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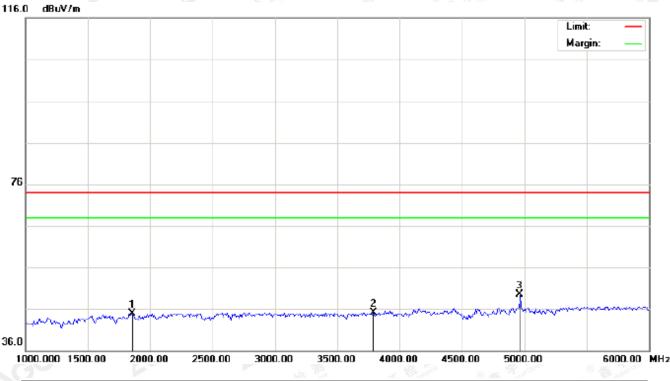
10	00.0	00_1	1500.00	2000.00	2500.00	3000.00	3500.00	40	00.00	4500.00	5000.00	6000.00	MHz
		Mk	Freq.	Reading	Factor	Measurement	Limit	Over		Antenna			al Con
	No.	IVIN	i ricq.	rteading	ractor	measurement	Linn	0,01	Detector	Height	Degree	Comment	
		•	MHz	dBu∨	dB/m	dBuV/m	dBu∀/m	dB		cm	degree		
	1		1283.333	39.35	4.53	43.88	74.00	-30.12	peak				7
	2		3833.333	30.76	14.16	44.92	74.00	-29.08	peak]
	3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	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		1858.333	36.57	8.39	44.96	74.00	-29.04	peak			
2		3791.667	31.28	13.91	45.19	74.00	-28.81	peak			
3	*	4960.000	41.41	8.09	49.50	74.00	-24.50	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

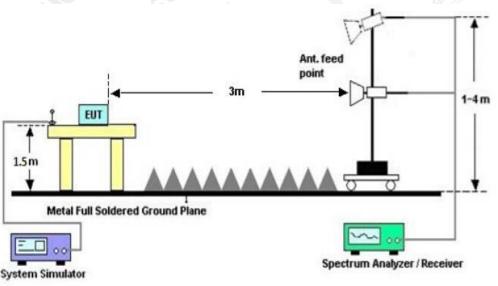
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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.

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

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

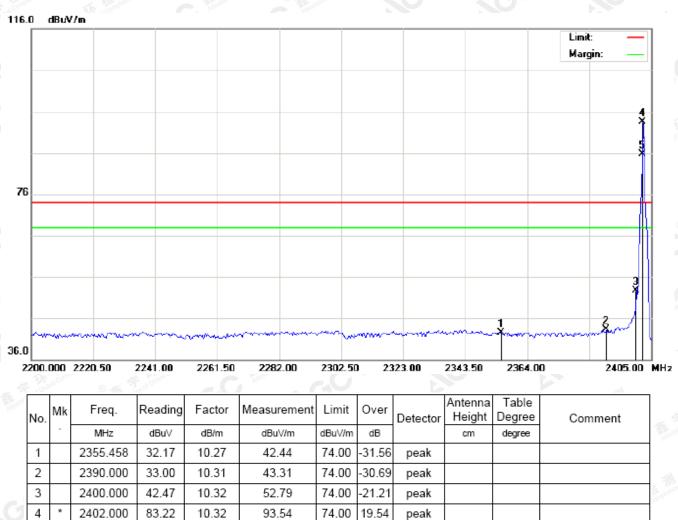


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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



85.62

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74.00

11.62

AVG



Х

5

2402.000

75.30

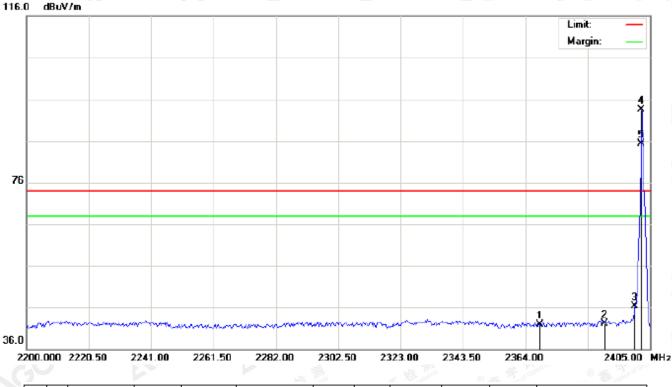
10.32

100

328



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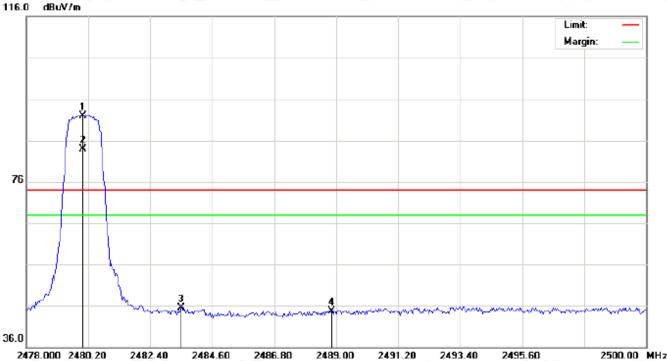
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
10'	1		2368.783	31.65	10.29	41.94	74.00	-32.06	peak			
ſ	2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
Γ	3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
ſ	4	*	2402.000	83.09	10.32	93.41	74.00	19.41	peak			
	5	х	2402.000	74.95	10.32	85.27	74.00	11.27	AVG	100	149	



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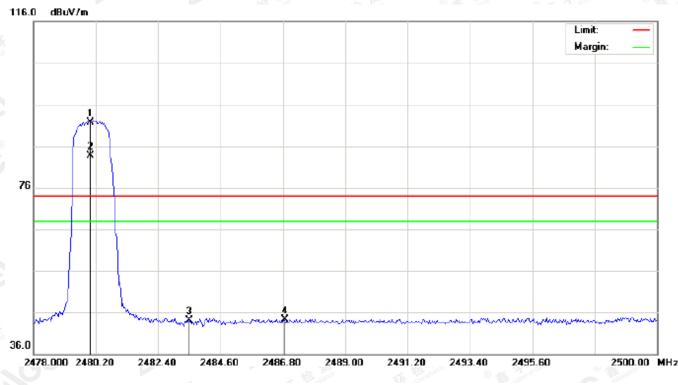
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

		54 E							1117-		1218	notifier and an an	
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment	
		•	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree		
23	1	*	2480.000	81.55	10.41	91.96	74.00	17.96	peak				
stat	2	Х	2480.000	73.51	10.41	83.92	74.00	9.92	AVG	100	333		
	3		2483.500	35.19	10.41	45.60	74.00	-28.40	peak				
	4		2488.853	34.35	10.42	44.77	74.00	-29.23	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	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	81.32	10.41	91.73	74.00	17.73	peak			
2	Х	2480.000	73.23	10.41	83.64	74.00	9.64	AVG	100	159	
3		2483.500	33.76	10.41	44.17	74.00	-29.83	peak			
4		2486.873	33.86	10.42	44.28	74.00	-29.72	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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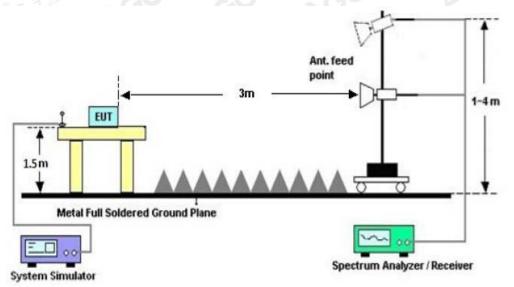
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11. 20DB BANDWIDTH

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.

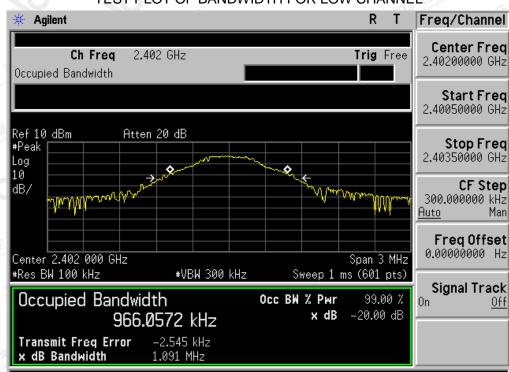
11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT									
	Measurement Result								
Applicable Limits		.							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
the man	Low Channel	0.966	1.091	PASS					
N/A	Middle Channel	0.971	1.100	PASS					
	High Channel	0.991	1.125	PASS					



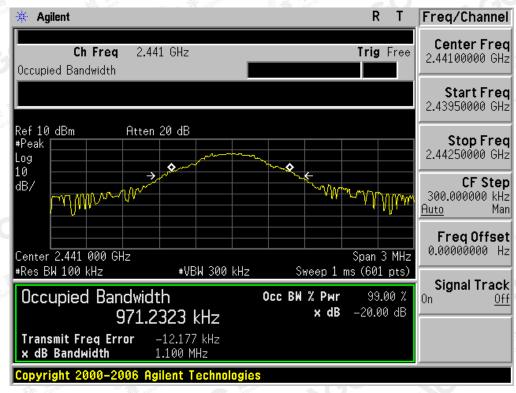


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL





TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



BLUET	BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result										
Applicable Limits											
		99%OBW (MHz)	-20dB BW(MHz)	Result							
The the annual the the annual	Low Channel	1.229	1.416	PASS							
N/A	Middle Channel	1.223	1.405	PASS							
	High Channel	1.225	1.412	PASS							

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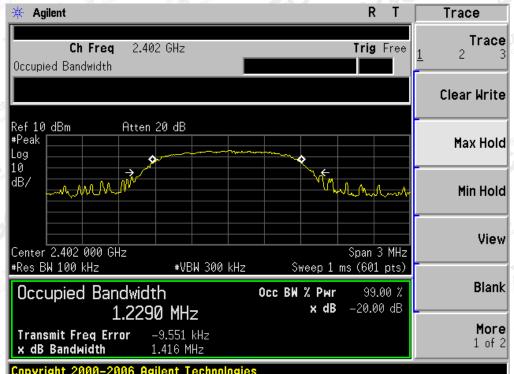
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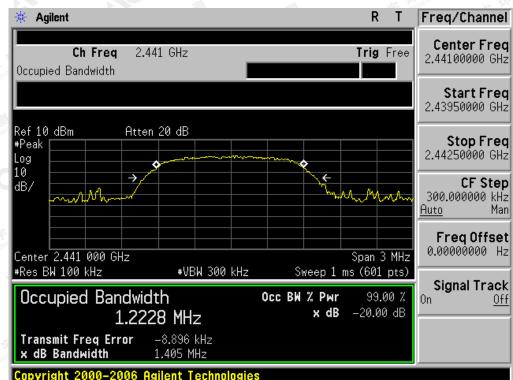
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

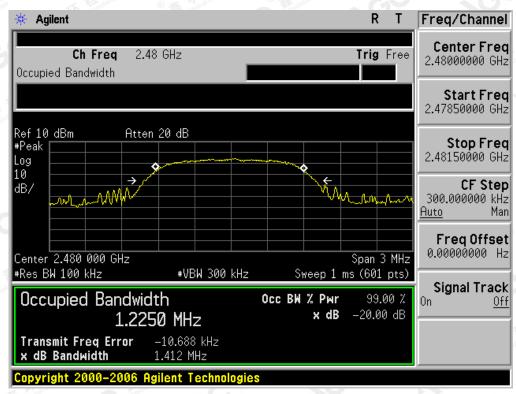






TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



BLUET								
BLOEN	BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT Measurement Result							
Applicable Limits								
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The second second	Low Channel	1.225	1.396	PASS				
N/A	Middle Channel	1.222	1.409	PASS				
SGC "	High Channel	1.237	1.414	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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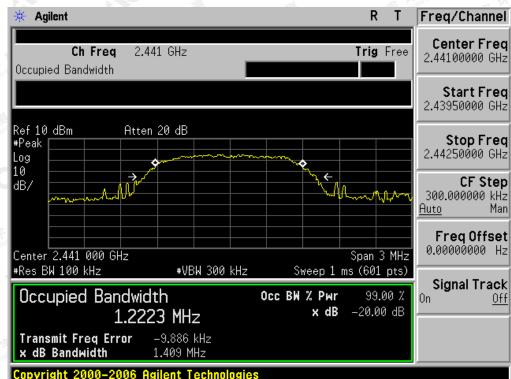
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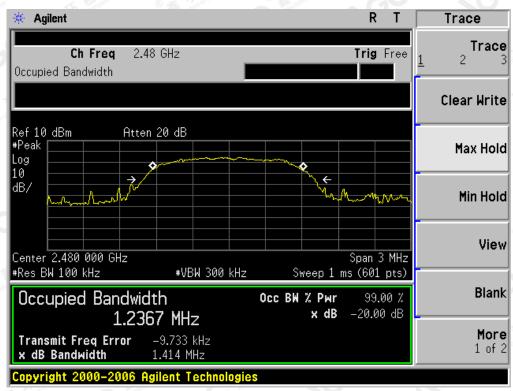
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

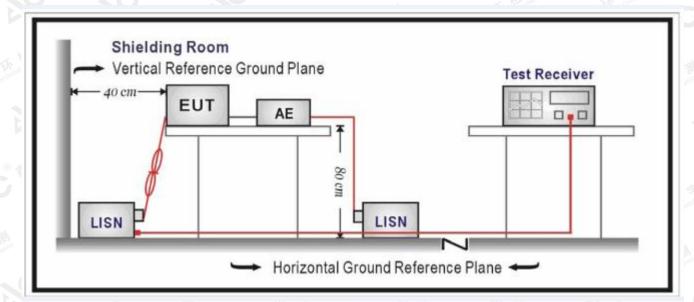
Francisco	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	© 56 56	46						
5MHz~30MHz	60	50						

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

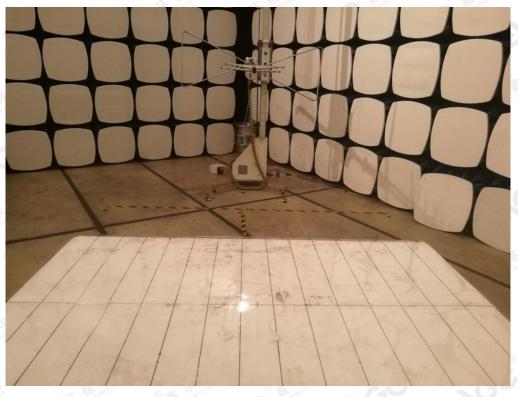
Note: The BT function of EUT isn't work when charging.





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

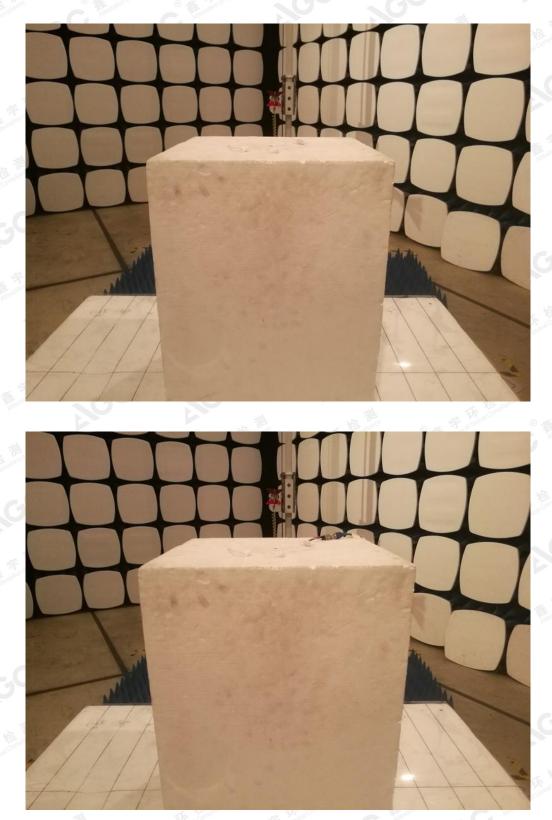








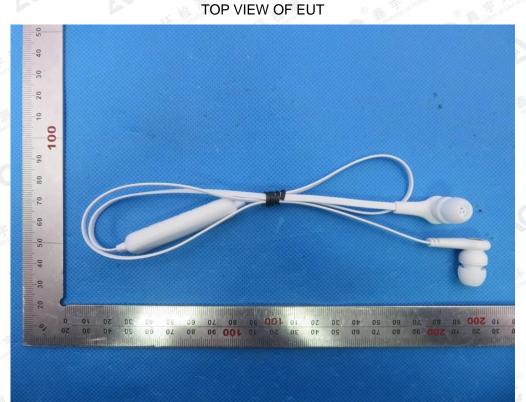
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APPENDIX B: PHOTOGRAPHS OF EUT





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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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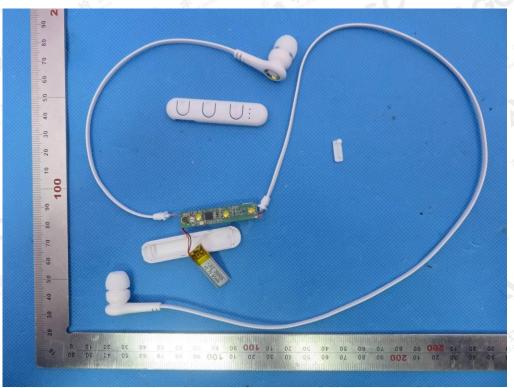


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VIEW OF EUT (PORT)



OPEN VIEW OF EUT



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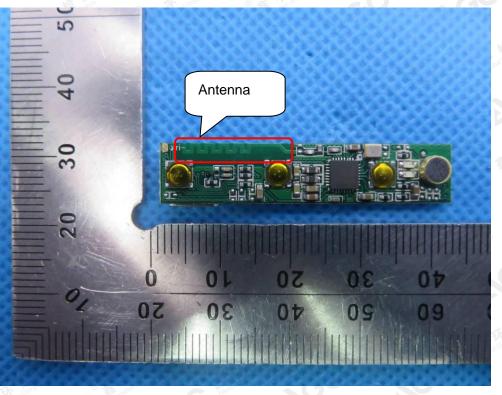


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VIEW OF EUT BATTERY



INTERNAL VIEW OF EUT-1

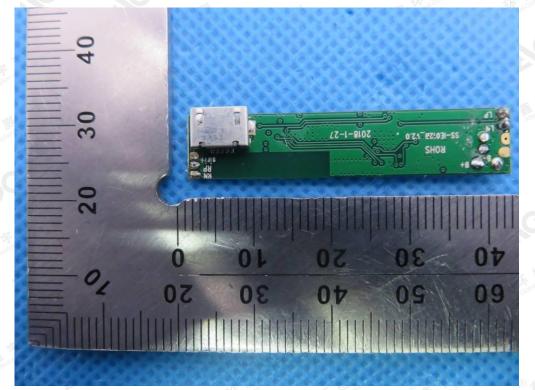






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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



----END OF REPORT----

