

FCC Test Report

Report No.: AGC00385180602FE03

FCC ID : 2AOSG-TWSX001B

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Bluetooth earphone

BRAND NAME : LATOW

MODEL NAME : TWSX001B, Latow ACE

CLIENT: SHENZHEN XILAILE TECHNOLOGY CO.,LTD

DATE OF ISSUE : Jun. 21, 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 / © Marie	Jun. 21, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	SHENZHEN XILAILE TECHNOLOGY CO.,LTD
Address	2F. 9F. 10F. JiangNan Building, XinWeiZai Village, HeBei, YongXiang Road, BanTian, Longgang District, Shenzhen, China
Manufacturer	SHENZHEN XILAILE TECHNOLOGY CO.,LTD
Address	2F. 9F. 10F. JiangNan Building, XinWeiZai Village, HeBei, YongXiang Road, BanTian, Longgang District, Shenzhen, China
Product Designation	Bluetooth earphone
Brand Name	LATOW
Test Model	TWSX001B
Series Model	Latow ACE
Difference description	All the same except for the appearance shape.
Date of test	Jun. 08, 2018 to Jun. 18, 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		
Global Compliances	Henry Zhang	(Zhang Zh	nuorui)	Jun. 18, 2018	3
Reviewed By_		cvo	cheng	Maria Communes	ion of
® Fredution of Global Compile	Cool Cheng(C	heng Men	igguo)	Jun. 21, 2018	3
Approved By		Fore	站些		
C Manual C	Forrest Lei(Authori	Lei Yongg zed Office		Jun. 21, 2018	3



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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	HEL TIME
RF Output Power 1.18dBm(Max EIRP Power=Max radiation field-95.2)	al Co.
Bluetooth Version V4.1	G
Modulation BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK	T. F.
Number of channels 79 for BR/EDR	Altestation of C
Hardware Version V1.0	
Software Version V1.0	
Antenna Designation Ceramic Antenna	
Antenna Gain 0.5dBi	G
Power Supply DC 3.7V by battery	

Note: 1. The BT function of EUT didn't work when charging.

2. The EUT comprises left and right channel headsets, both are the same and have been tested. Only the test data of left headset recorded in this report.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
The Mariane		2402MHz
® Alfastation of Global ® .		2403MHz
GO YOU		The state of the s
11 不管	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
		\$ 50°
The Normanian (8)	77°	2479 MHz
® American of Citation	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%.

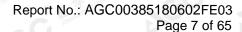
- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

4. DESCRIPTION OF TEST MODES

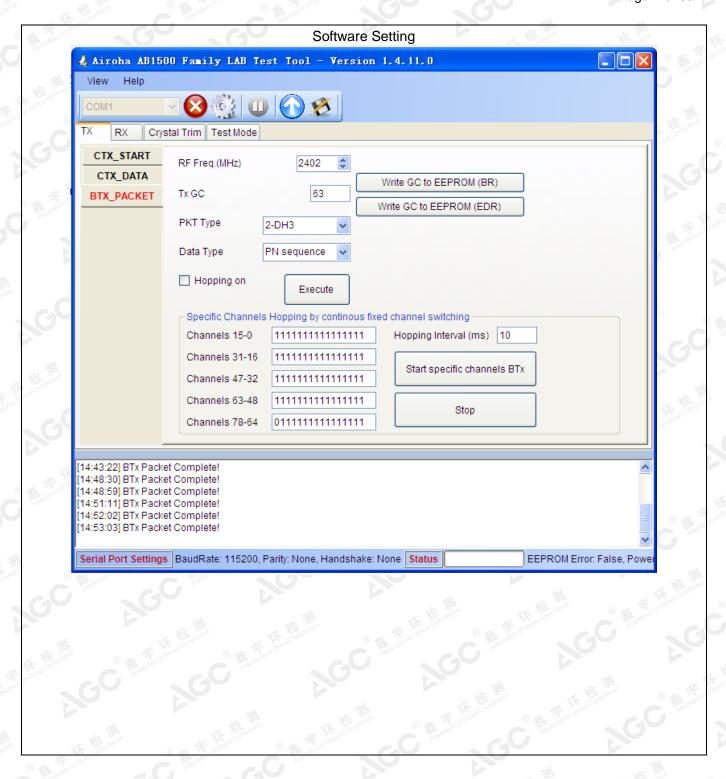
1 Low channel GFSK 2 Middle channel GFSK 3 High channel GFSK 4 Low channel π /4-DQPSK 5 Middle channel π /4-DQPSK 6 High channel π /4-DQPSK 7 Low channel 8DPSK 8 Middle channel 8DPSK 9 High channel 8DPSK	NO.	TEST MODE DESCRIPTION
3 High channel GFSK 4 Low channel π /4-DQPSK 5 Middle channel π /4-DQPSK 6 High channel π /4-DQPSK 7 Low channel 8DPSK 8 Middle channel 8DPSK	® # Indicion	Low channel GFSK
4 Low channel π /4-DQPSK 5 Middle channel π /4-DQPSK 6 High channel π /4-DQPSK 7 Low channel 8DPSK 8 Middle channel 8DPSK	2	Middle channel GFSK
5 Middle channel π /4-DQPSK 6 High channel π /4-DQPSK 7 Low channel 8DPSK 8 Middle channel 8DPSK	3	High channel GFSK
6 High channel π /4-DQPSK 7 Low channel 8DPSK 8 Middle channel 8DPSK	4 TE	Low channel π /4-DQPSK
7 Low channel 8DPSK 8 Middle channel 8DPSK	© 5 to the contract of the con	Middle channel π /4-DQPSK
8 Middle channel 8DPSK	6	High channel π /4-DQPSK
	7	Low channel 8DPSK
9 High channel 8DPSK	F Thomas on 8 @ F	Middle channel 8DPSK
	9	High channel 8DPSK
10 BT Link	10	BT Link

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)

	F C		palCo	
EUT		Control box		PC

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Bluetooth earphone	LATOW	TWSX001B	EUT
2	Battery	LATOW	501115	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	AIROHA	N/A	A.E
5	IPOD	APPLE	A1367	A.E
6	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	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

F!	Manufactures	Madal	0/1	Oal Data	Cal Dava
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, 2019
Radiation Cable 1	MXT	RS1	R005	June 6, 2018	June 5, 2019
Radiation Cable 2	MXT	RS1	R006	June 6, 2018	June 5, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2017	Jun.19, 2018



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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)	9
0.490 ~ 1.705	30	24000/F(kHz)	技訓
1.705 ~ 30	30	30 (1)	E Cobaco (Color of Color of Co
30 ~ 88	3 F 1000	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. I	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.
- 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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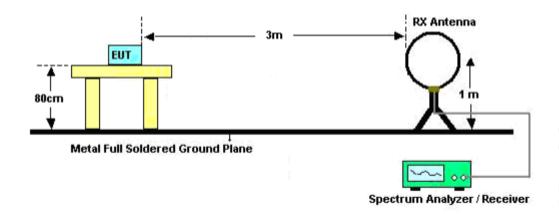
The following table is the setting of spectrum analyzer and receiver.

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

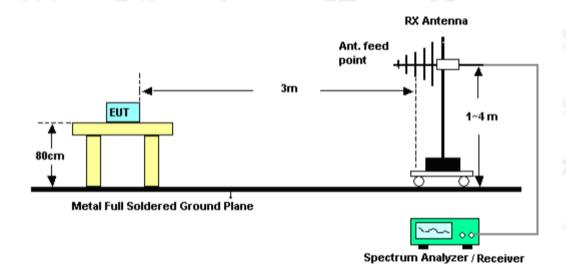


9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



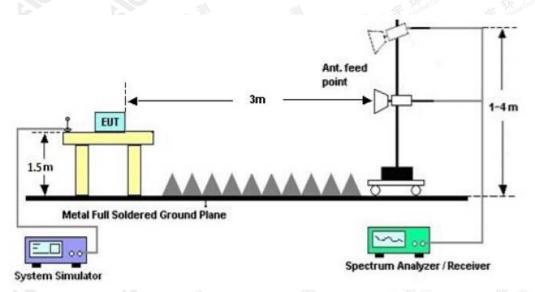
RADIATED EMISSION TEST SETUP 30MHz-1000MHz





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RADIATED EMISSION TEST SETUP ABOVE 1000MHz





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9.4. TEST RESULT

FOR BR/EDR

(Worst modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

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

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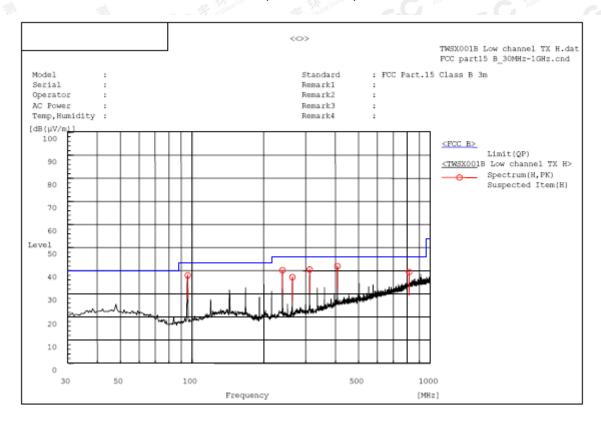
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RADIATED EMISSION BELOW 1GHz

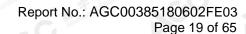
RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



A. Suspected List:

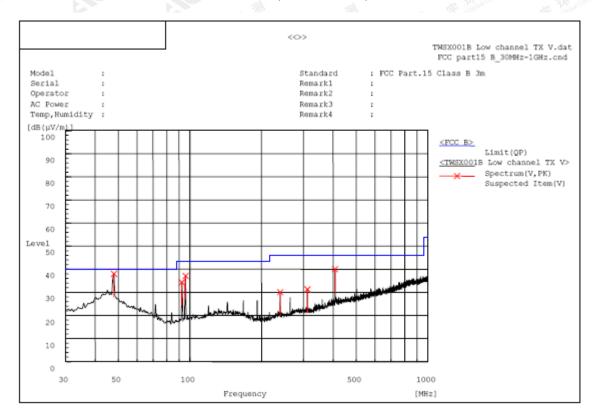
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	B(u∨/m) dB(u∨/m)		Pass/Fail	Height cm	Angle deg
95.960	Н	25.2	12.8	38.0	43.5	5.5	Pass	200.0	83.3
239.520	Н	24.0	16.2	40.2	46.0	5.8	Pass	150.0	87.1
263.770	Н	21.1	16.1	37.2	46.0	8.8	Pass	100.0	337.1
311.785	Н	22.9	17.6	40.5	46.0	5.5	Pass	100.0	358.3
407.815	Н	20.8	21.1	41.9	46.0	4.1	Pass	100.0	67.1
815.700	Н	10.4	29.0	39.4	46.0	6.6	Pass	100.0	158.0

RESULT: PASS





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



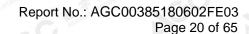
A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	47.945	v	20.8	17.2	38.0	40.0	2.0	Pass	150.0	119.8
	92.565	V	21.9	12.4	34.3	43.5	9.2	Pass	150.0	9.9
	95.960	v	24.3	12.8	37.1	43.5	6.4	Pass	150.0	214.7
ś	239.520	v	13.8	16.2	30.0	46.0	16.0	Pass	200.0	8.7
	311.785	V	13.7	17.6	31.3	46.0	14.7	Pass	150.0	15.1
	407.330	v	19.0	21.0	40.0	46.0	6.0	Pass	150.0	24.7

RESULT: PASS

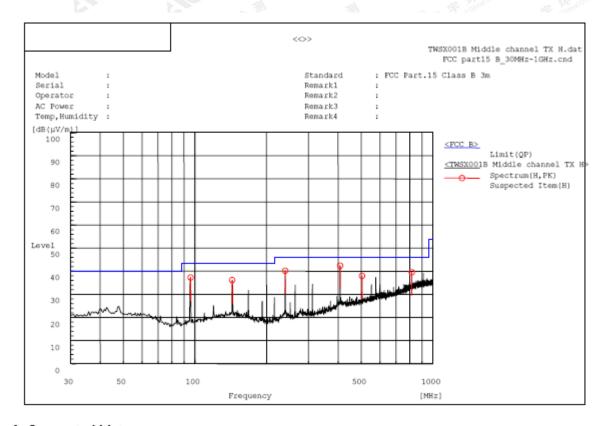
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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





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



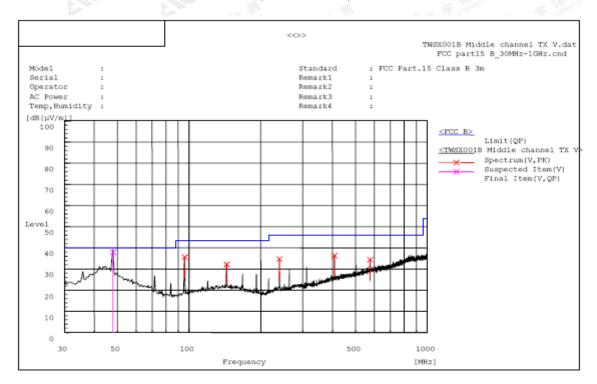
A. Suspected List:

Frequency MHz	Polarization	n Reading dB Level Limit dB(uV/m) dB(uV/m) PK QP		Margin dB	Pass/Fail	Height cm	Angle deg		
95.960	H	24.5	12.8	37.3	43.5	6.2	Pass	200.0	88.3
143.490	Н	19.6	16.6	36.2	43.5	7.3	Pass	200.0	101.9
239.520	H	24.0	16.2	40.2	46.0	5.8	Pass	150.0	9.7
407.815	Н	21.3	21.1	42.4	46.0	3.6	Pass	200.0	25.1
503.845	Н	15.1	22.9	38.0	46.0	8.0	Pass	200.0	1.8
815.700	Н	10.5	29.0	39.5	46.0	6.5	Pass	200.0	126.5

RESULT: PASS



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



A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
95.960	V	22.9	12.8	35.7	43.5	7.8	Pass	150.0	256.5
143.975	V	15.6	16.6	32.2	43.5	11.3	Pass	100.0	326.5
239.520	v	18.5	16.2	34.7	46.0	11.3	Pass	100.0	317.1
407.815	V	15.2	21.1	36.3	46.0	9.7	Pass	200.0	140.2
575.625	V	10.0	24.4	34.4	46.0	11.6	Pass	150.0	355.4

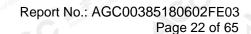
B. Final Data List:

Fr	requency MHz	Polarization	Reading dB(uV) QP	Factor dB (1/m)	Level dB(u√/m) QP	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	47.945	V	20.7	17.2	37.9	40.0	2.1	Pass	100.0	62.7

RESULT: PASS

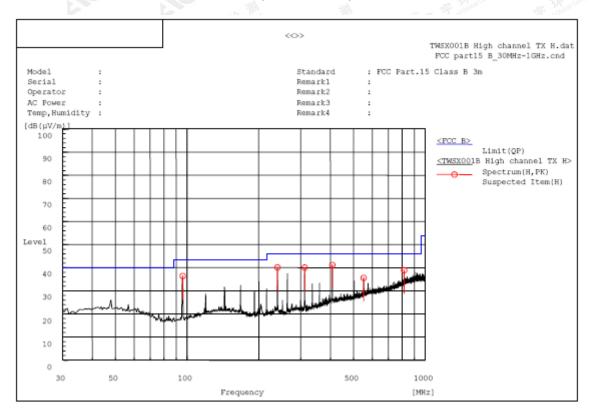
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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





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



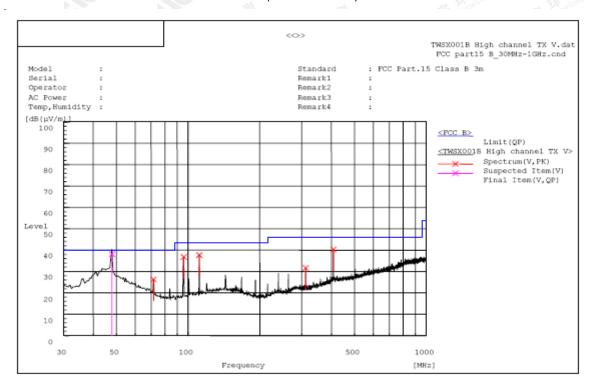
A. Suspected List:

Frequency MHz	Polarization Reading dB (uV) Factor dB (dB(uV/m) PK QP		Margin dB	Pass/Fail	Height cm	Angle deg			
95.960	Н	23.6	12.8	36.4	43.5	7.1	Pass	150.0	102.5
239.520	Н	23.9	16.2	40.1	46.0	5.9	Pass	150.0	294.9
311.785	Н	22.5	17.6	40.1	46.0	5.9	Pass	150.0	350.3
407.330	Н	20.1	21.0	41.1	46.0	4.9	Pass	100.0	342.9
551.375	Н	11.7	23.9	35.6	46.0	10.4	Pass	150.0	55.6
815.700	Н	9.9	29.0	38.9	46.0	7.1	Pass	100.0	306.7

RESULT: PASS

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



A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
71.710	V	12.3	14.0	26.3	40.0	13.7	Pass	100.0	322.5
95.960	V	24.0	12.8	36.8	43.5	6.7	Pass	100.0	261.9
111.480	V	23.0	14.7	37.7	43.5	5.8	Pass	150.0	10.0
311.785	V	14.1	17.6	31.7	46.0	14.3	Pass	150.0	19.5
407.815	V	19.2	21.1	40.3	46.0	5.7	Pass	100.0	8.5

B. Final Data List:

Frequency MHz Polarization Reading dB(uV) dB dB(uV/m) QP Limit dB(uV/m) QP QP Margin QP QP QP				
	Pass/Fail		Height cm	Angle deg
47.945 V 20.9 17.2 38.1 40.0 1.9	Pass	1.9	100.0	84.9

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.



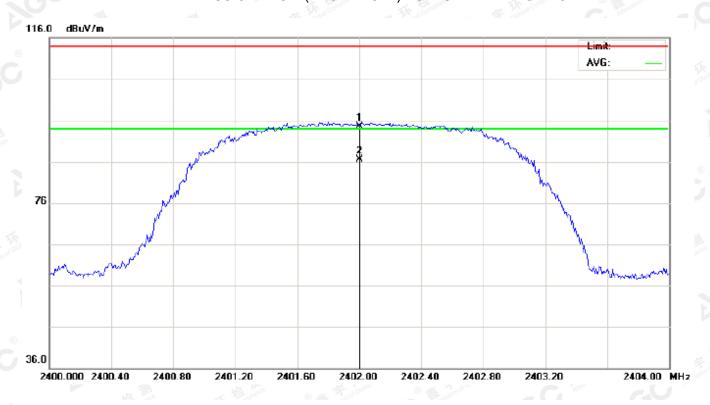
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RADIATED EMISSION ABOVE 1GHz FOR BR/EDR

(Worst modulation: GFSK)

For Fundamental

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



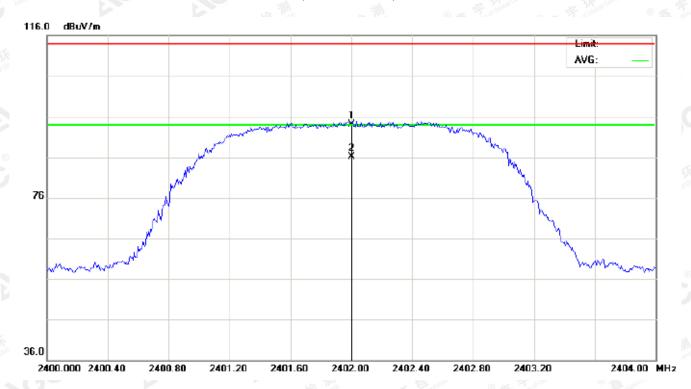
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	84.25	10.32	94.57	114.00	-19.43	peak	·		
2	*	2402.000	76.27	10.32	86.59	94.00	-7.41	AVG	100	156	

RESULT: PASS



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



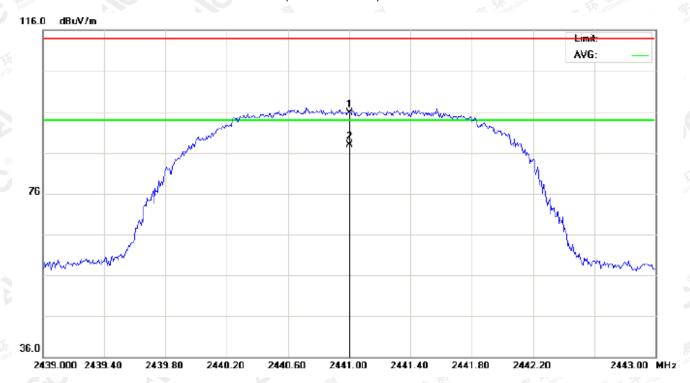
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
i.e	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	83.83	10.32	94.15	114.00	-19.85	peak			
2	*	2402.000	75.80	10.32	86.12	94.00	-7.88	AVG	100	328	

RESULT: PASS



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



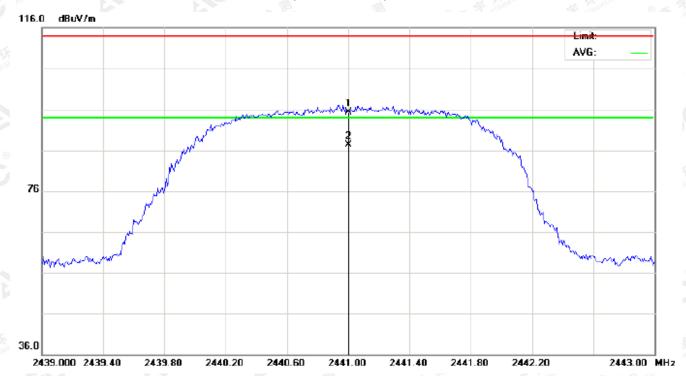
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	85.43	10.36	95.79	114.00	-18.21	peak			
2	*	2441.000	77.50	10.36	87.86	94.00	-6.14	AVG	100	159	

RESULT: PASS



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



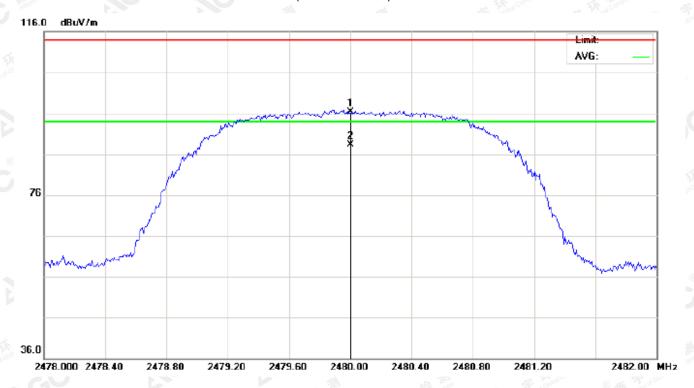
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	84.99	10.36	95.35	114.00	-18.65	peak			
2	*	2441.000	77.01	10.36	87.37	94.00	-6.63	AVG	100	326	

RESULT: PASS



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



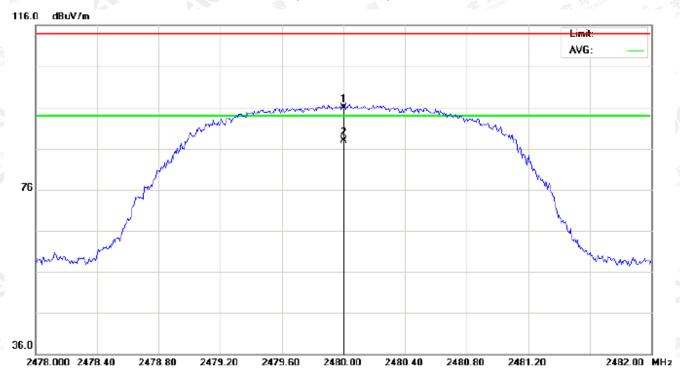
N	o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
	1		2480.000	85.97	10.41	96.38	114.00	-17.62	peak			
	2	*	2480.000	77.99	10.41	88.40	94.00	-5.60	AVG	100	153	

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	85.49	10.41	95.90	114.00	-18.10	peak			
2	*	2480.000	77.55	10.41	87.96	94.00	-6.04	AVG	100	323	

RESULT: PASS

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

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

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Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	84.25	10.32	94.57	114	-19.43	Horizontal	
2402	83.83	10.32	94.15	114	-19.85	Vertical	
2441	85.43	10.36	95.79	114	-18.21	Horizontal	
2441	84.99	10.36	95.35	114	-18.65	Vertical	
2480	85.97	10.41	96.38	114	-17.62	Horizontal	
2480	85.49	10.41	95.90	114	-18.10	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.27	10.32	86.59	94	-7.41	Horizontal
2402	75.80	10.32	86.12	94	-7.88	Vertical
2441	77.50	10.36	87.86	94	-6.14	Horizontal
2441	77.01	10.36	87.37	94	-6.63	Vertical
2480	77.99	10.41	88.40	94	-5.60	Horizontal
2480	77.55	10.41	87.96	94	-6.04	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	83.83	10.32	94.15	114	-19.85	Horizontal	
2402	83.34	10.32	93.66	114	-20.34	Vertical	
2441	85.00	10.36	95.36	114	-18.64	Horizontal	
2441	84.54	10.36	94.90	114	-19.10	Vertical	
2480	85.49	10.41	95.90	114	-18.10	Horizontal	
2480	85.07	10.41	95.48	114	-18.52	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	75.83	10.32	86.15	94	-7.85	Horizontal
2402	75.34	10.32	85.66	94	-8.34	Vertical
2441	77.08	10.36	87.44	94	-6.56	Horizontal
2441	76.56	10.36	86.92	94	-7.08	Vertical
2480	77.58	10.41	87.99	94	-6.01	Horizontal
2480	77.11	10.41	87.52	94	-6.48	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	83.40	10.32	93.72	114	-20.28	Horizontal
2402	82.89	10.32	93.21	114	-20.79	Vertical
2441	84.57	10.36	94.93	114	-19.07	Horizontal
2441	84.12	10.36	94.48	114	-19.52	Vertical
2480	85.04	10.41	95.45	114	-18.55	Horizontal
2480	84.66	10.41	95.07	114	-18.93	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	75.33	10.32	85.65	94	-8.35	Horizontal
2402	74.94	10.32	85.26	94	-8.74	Vertical
2441	76.62	10.36	86.98	94	-7.02	Horizontal
2441	76.12	10.36	86.48	94	-7.52	Vertical
2480	77.09	10.41	87.50	94	-6.50	Horizontal
2480	76.66	10.41	87.07	94	-6.93	Vertical



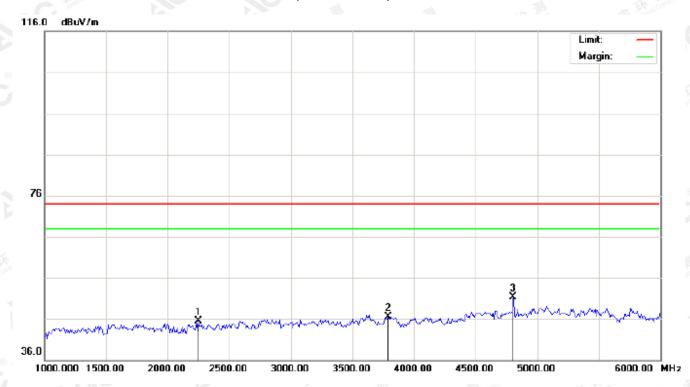
age 33 of 65

FOR BR/EDR

(Worst modulation: GFSK)

For Harmonics

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



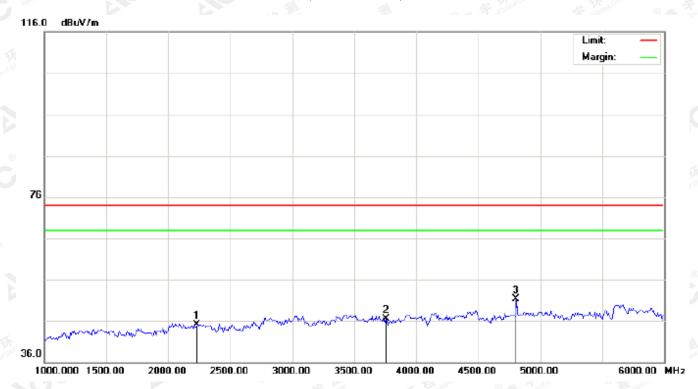
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2250.000	35.36	10.15	45.51	74.00	-28.49	peak			
2		3791.667	32.52	13.91	46.43	74.00	-27.57	peak			
3	*	4804.000	43.71	7.69	51.40	74.00	-22.60	peak			

RESILIT. PASS



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



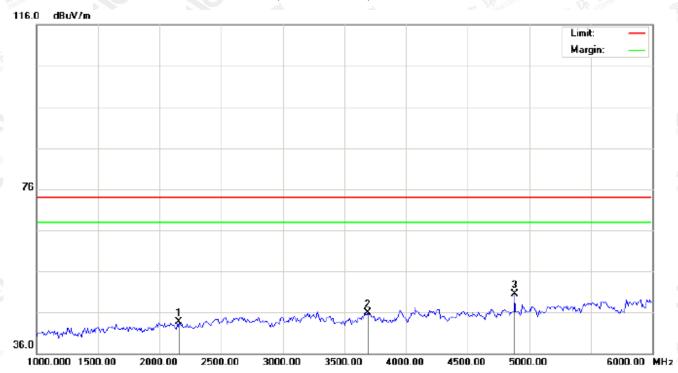
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2233.333	35.05	10.14	45.19	74.00	-28.81	peak			
2		3758.333	32.71	13.70	46.41	74.00	-27.59	peak			
3	*	4804.000	43.55	7.69	51.24	74.00	-22.76	peak			

RESULT: PASS



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



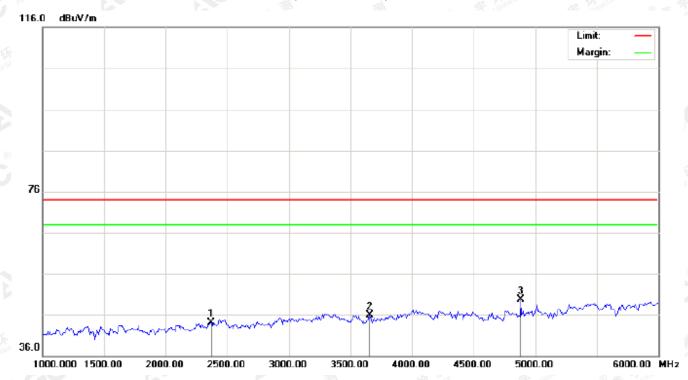
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2158.333	33.58	10.05	43.63	74.00	-30.37	peak			
2		3691.667	32.59	13.29	45.88	74.00	-28.12	peak			
3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

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		2366.667	33.80	10.28	44.08	74.00	-29.92	peak			
2		3658.333	32.74	13.09	45.83	74.00	-28.17	peak			
3	*	4882.000	41.89	7.89	49.78	74.00	-24.22	peak			

RESULT: PASS

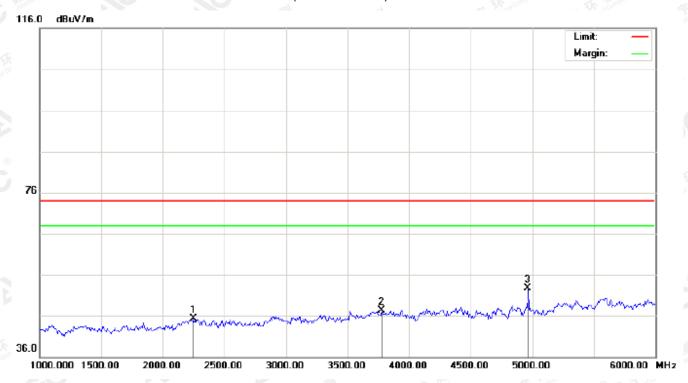
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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



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		2250.000	35.13	10.15	45.28	74.00	-28.72	peak			
2		3775.000	33.57	13.80	47.37	74.00	-26.63	peak			
3	*	4960.000	44.60	8.09	52.69	74.00	-21.31	peak			

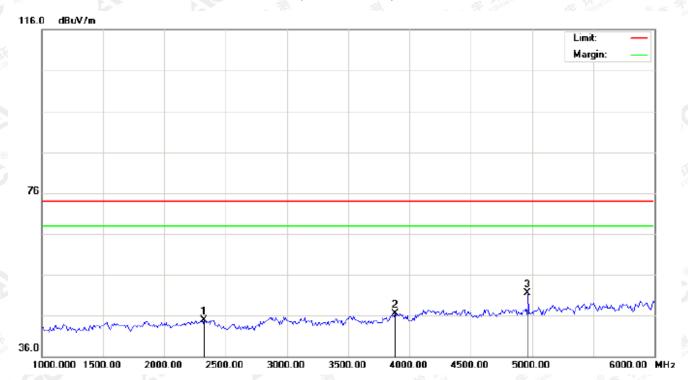
DECILIT: DACC

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



N	o.	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		2325.000	34.64	10.24	44.88	74.00	-29.12	peak			
	2		3883.333	32.06	14.47	46.53	74.00	-27.47	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

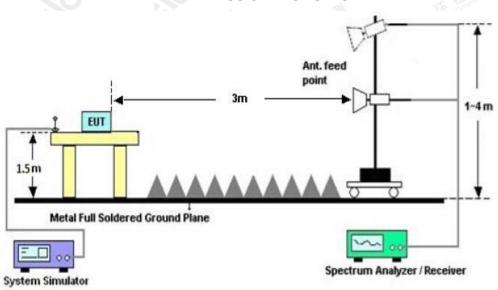
10.1. MEASUREMENT PROCEDURE

- 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.

	Start frequenc	y(MHz)			Stop frequency(MH	lz)
	2200	Kimplence	The Committee	® A station of G	2405	100
(S) ### (1)	2478	3lobal C	Autostation 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: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu√/m	dBu∀/m	dB		cm	degree	
1		2354.091	32.30	10.27	42.57	74.00	-31.43	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	41.47	10.32	51.79	74.00	-22.21	peak			
4	*	2402.000	84.28	10.32	94.60	74.00	20.60	peak			
5	Х	2402.000	76.23	10.32	86.55	74.00	12.55	AVG	100	156	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



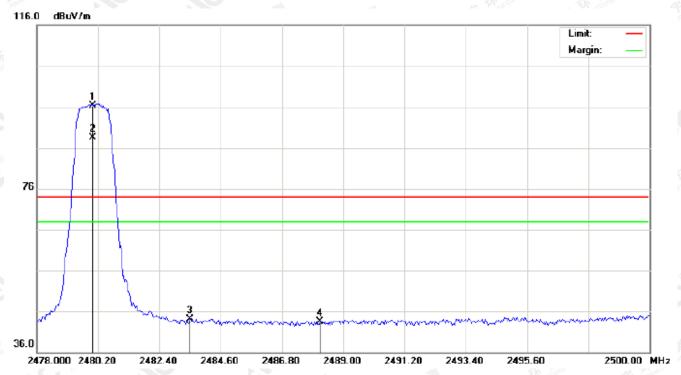
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB	dB	cm	degree	
1		2352.042	31.30	10.27	41.57	74.00	-32.43	peak			
2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
3		2400.000	39.06	10.32	49.38	74.00	-24.62	peak			
4	*	2402.000	83.88	10.32	94.20	74.00	20.20	peak			
5	Χ	2402.000	75.84	10.32	86.16	74.00	12.16	AVG	100	325	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



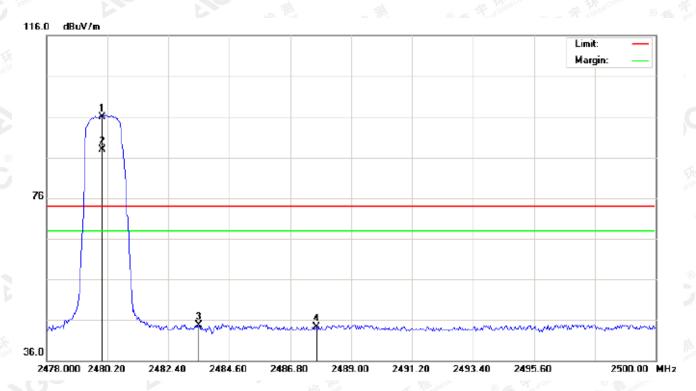
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	85.99	10.41	96.40	74.00	22.40	peak			
2	Х	2480.000	78.02	10.41	88.43	74.00	14.43	AVG	100	158	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2488.157	32.99	10.42	43.41	74.00	-30.59	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		Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2480.000	85.47	10.41	95.88	74.00	21.88	peak			
2	Х	2480.000	77.58	10.41	87.99	74.00	13.99	AVG	100	328	
3		2483.500	34.26	10.41	44.67	74.00	-29.33	peak			
4		2487.753	33.95	10.42	44.37	74.00	-29.63	peak			

RESULT: PASS

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

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

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

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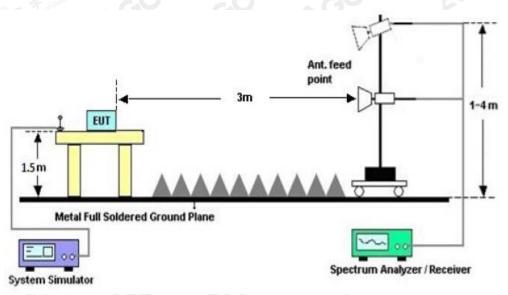
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11. 20DB BANDWIDTH

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

BLUET	OOTH 1MBPS LIN	IITS AND MEASU	REMENT RESULT							
		Measurement Result								
Applicable Limits		Result								
		99%OBW (MHz)	-20dB BW(MHz)	Kesuit						
Goden Committee (8) Millenton W	Low Channel	0.952	1.082	PASS						
N/A	Middle Channel	0.956	1.091	PASS						
- FIN	High Channel	0.960	1.104	PASS						

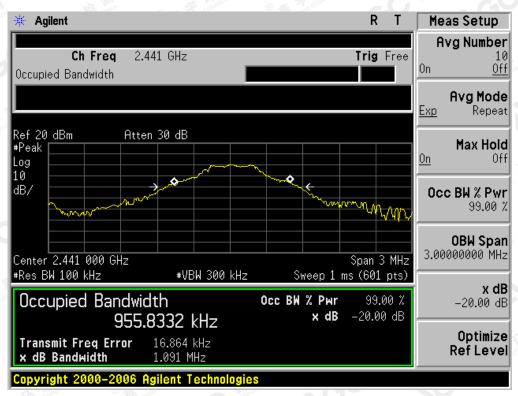
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.



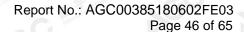
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

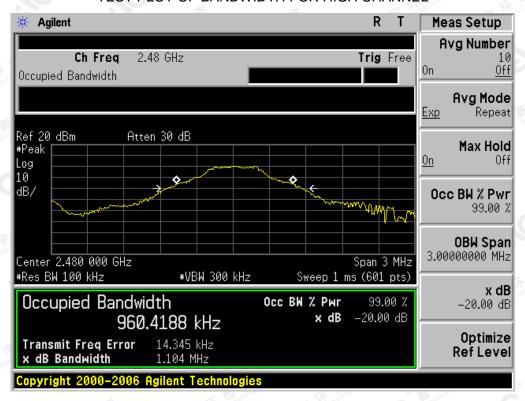


The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.

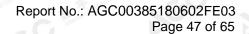




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



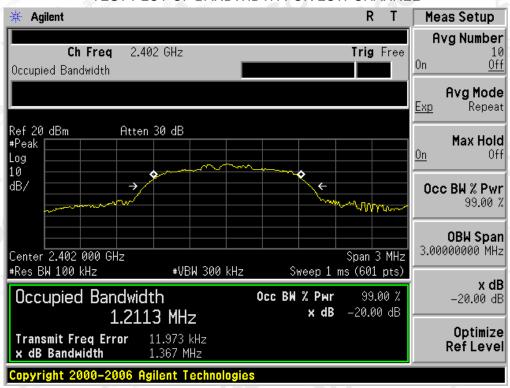
The results spoured this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.





Pir.	Illian							
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT								
		Measure	ement Result					
Applicable Limits		Decult						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
THE	Low Channel	1.211	1.367	PASS				
N/A	Middle Channel	1.212	1.353	PASS				
AGC "	High Channel	1.218	1.373	PASS				

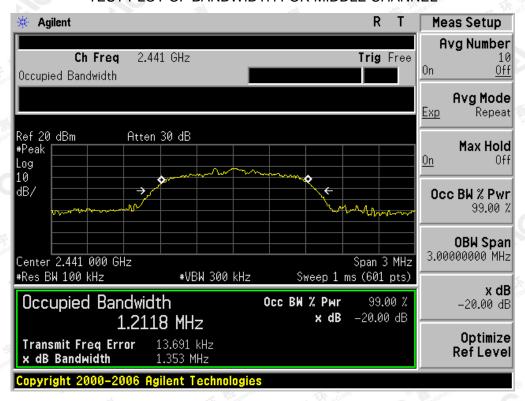
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



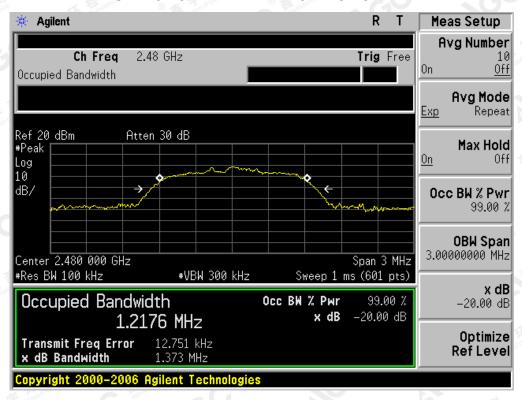
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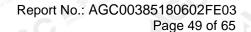
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



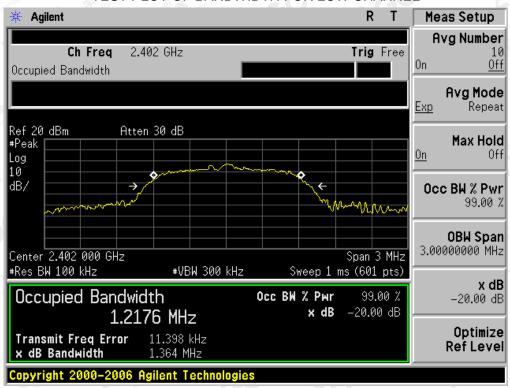
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BULIET	OCTU 2MPDS I IN	AITE AND MEASIL	DEMENT DECLII T					
BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT								
		Measure	ement Result					
Applicable Limits		Test Data (MHz)						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
TO THE THE STATE OF THE	Low Channel	1.218	1.364	PASS				
N/A	Middle Channel	1.219	1.360	PASS				
AGC "	High Channel	1.219	1.366	PASS				

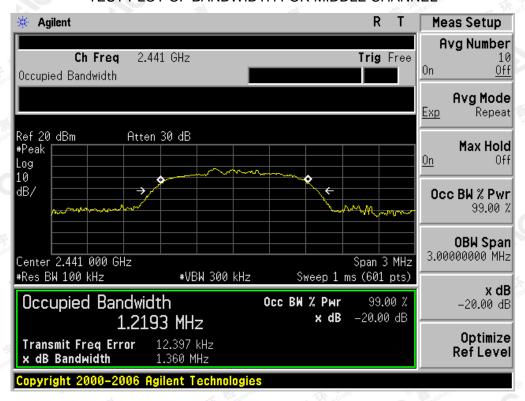
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



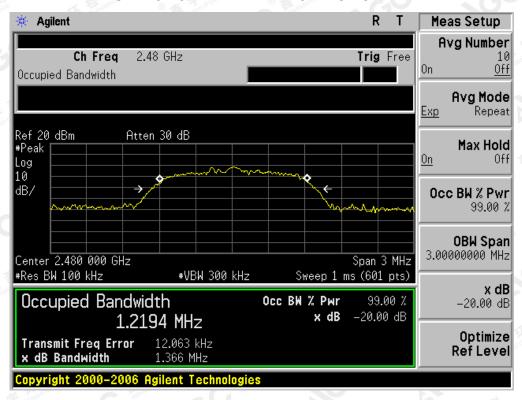
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

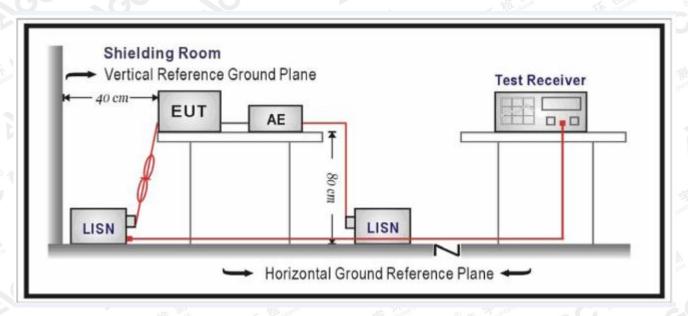
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

- 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

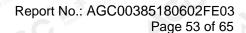
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

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

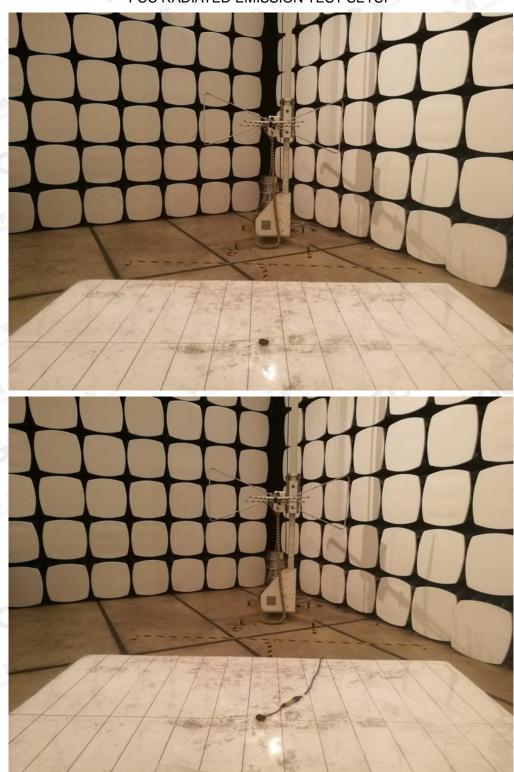
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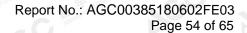


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

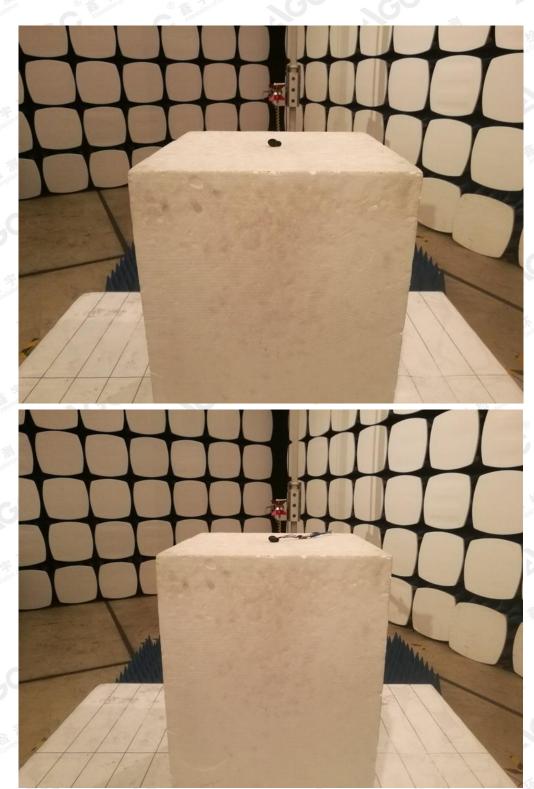
FCC RADIATED EMISSION TEST SETUP



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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



LeftVIEW OF EUT (PORT)

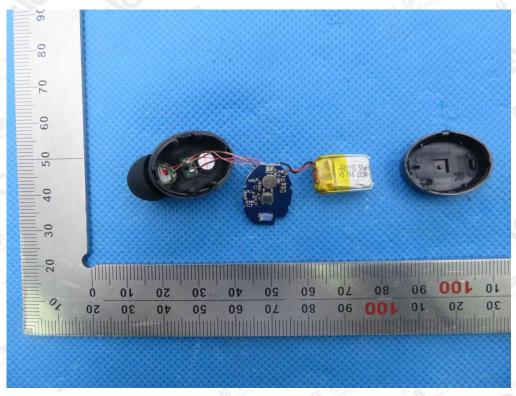


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OPEN VIEW OF EUT



VIEW OF BATTERY

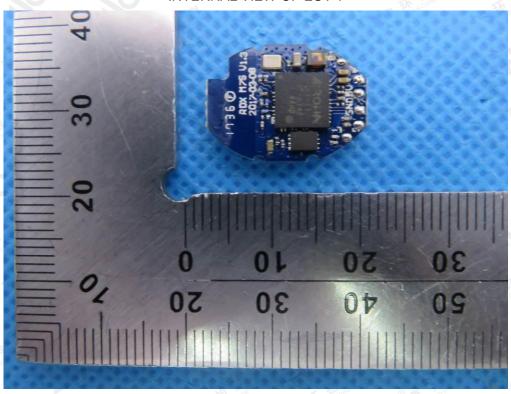


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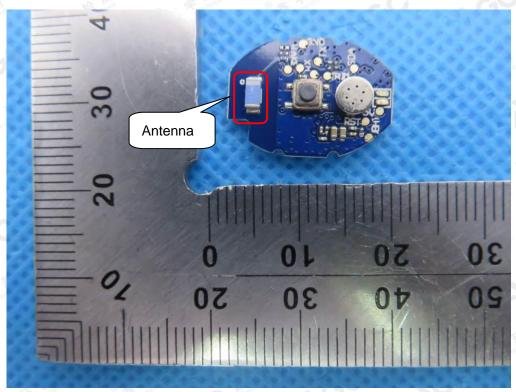
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2

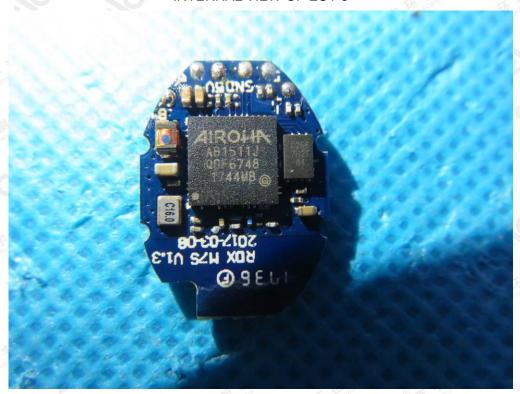


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INTERNAL VIEW OF EUT-3



RightVIEW OF EUT (PORT)



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OPEN VIEW OF EUT



VIEW OF BATTERY

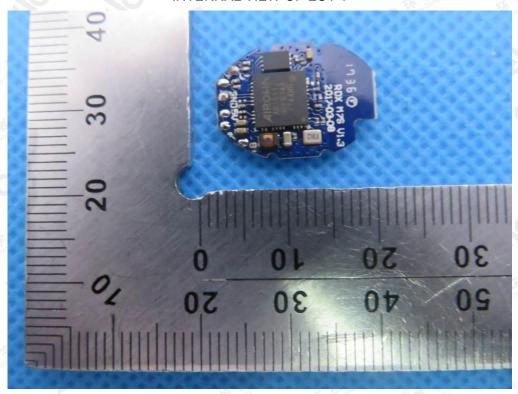


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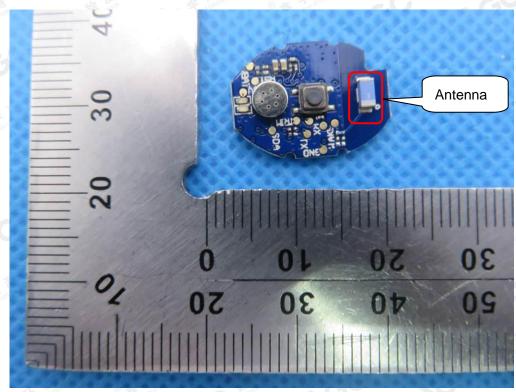
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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INTERNAL VIEW OF EUT-3



Charging Dock
VIEW OF EUT (Port)-1



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VIEW OF EUT (Port)-1



----END OF REPORT----

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