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FCC Test Report

Report No.: AGC02457180303FE03

FCC ID	: 2AOKX-SS-IE038B
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: VOICE-ASSISTANT WIRELESS SPORTS EARBUDS
BRAND NAME	: N/A
MODEL NAME	: See Page 4
CLIENT	: Shenzhen Swetz Sound Technology Co., Limited
DATE OF ISSUE	: Apr. 08, 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. 08, 2018	Valid	Initial release

Report Revise Record

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1. VERIFICATION OF CONFORMITY

Shenzhen Swetz Sound Technology Co., Limited	
No.18 Xiantian Road, Longgang Central Shenzhen China	
Shenzhen Swetz Sound Technology Co., Limited	
No.18 Xiantian Road, Longgang Central Shenzhen China	
VOICE-ASSISTANT WIRELESS SPORTS EARBUDS	
N/A	
SS-IE038B	
VA-WSE-6/1156, BEB012PX-BL, BEB012-BL	
All the same except for the appearance color.	
Mar. 13, 2018 to Mar. 22, 2018	
None State And State	
Normal	
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.

Jonhen Wand

Tested By

Jonhen Wang(Wang Yonghuan) Mar. 22, 2018

owers a

Reviewed By

Forrest Lei(Lei Yonggang)

Apr. 08, 2018

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2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following	A major technical desc	cription of EUT is	described as following
--	------------------------	--------------------	------------------------

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-8.59dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE ⊡GFSK
Number of channels	79 for BR/EDR
Hardware Version	V1.2
Software Version	V1.4
Antenna Designation	PCB Antenna
Antenna Gain	-0.5dBi
Power Supply	DC 3.7V by battery

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
The store of Color	0	2402MHz
NOU		2403MHz
The the fill	The second second	
C Standard Global C C	6 38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
The termine Company of the state of the stat	- G	
AGC in AC	77	2479 MHz
	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 = \pm 3.2 dB

- Uncertainty of Radiated Emission below 1GHz, $Uc = \pm 3.9 \text{ dB}$

- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

NO.		TEST MODE	DESCRIPTION	l	
C The Indiana C	Autor of Goddal - B Autor of God	Low char	nnel GFSK		
2 2	S.C.	Middle cha	annel GFSK	THE other	K Completion
3		High chai	nnel GFSK	C Allestation of	300
4 K 1	C The monor disclose Comments	Low channe	Iπ/4-DQPSK	60	
© 5 or o com		Middle chann	el π /4-DQPSK	the mas	下位下
6		High channe	el π /4-DQPSK	Fon of Global Comm	B The station of Global
7	Anne B Fraction	Low chan	nel 8DPSK	~GC	
E F John Com 8 @ E John		Middle cha	nnel 8DPSK		-1111
9		High chan	nnel 8DPSK	AF.	ha Compliance
10	No. 10	BT Link w	ith charging	R Allestation of C	C The
11 the source of the second	The Transformation of the	BT	Link	30	NO- 1

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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BK3256 RF Test - V1.3 □ 文件 (2) 帮助 (2) 解助 (2) RF 測试 □	
RF现时式	
	-
通讯端口 COM3 🔽 🔵 Close	
RF询归式	
仪器测试 - 软件测试 加rimitrizet TX 服rimitrizet TX	
功率 2 ÷ F Hopping 包类型 DH1 ・ 能置	
Serial port configration: baud: 115200, databits: 8, stopbits: 1, parity: 0	3
IS saradc_charger_full_threshold=720	
init finished Bluetooth controller enabled: 12:34:56:66:54:13	
IA [CMD] singlewave test mode enable app_bt_enable_dut_mode()	
OK app_wave_file_play_stop()	
Bluetooth controller disabled: 12:34:56:66:54:13 [disable_complete 0 00]	
Enter Dut test mode success! [CMD] test mode config, d_mode: 1,freq: 2, power level: 2, p_mode: 1, hopping: 0.	
EUT TEST MODE START	

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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

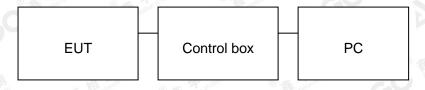
EUT



The state of the s

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

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
Allestation of Cooks	VOICE-ASSISTANT WIRELESS SPORTS EARBUDS	Swetz Sound	SS-IE038B	EUT
2	Battery	JYZ	501225	Accessory
3	PC	APPLE	A1465	A.E
4 0	Control box	BEKEN	N/A	A.E
5	Adapter	N/A	MX12X8-0502000UU	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	Compliant
§15.215	Bandwidth	Compliant

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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 CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
TEST RECEIVER	ST RECEIVER R&S		101206	Jun.20, 2017	Jun.19, 2018	
LISN	LISN R&S		100086	Aug.21, 2017	Aug.20, 2018	

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018	
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018	
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018	
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018	
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019	
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018	
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018	
Loop Antenna	A.H.Systems,Inc	SAS-562B	C -	Mar. 01, 2018	Feb. 28, 2020	

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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 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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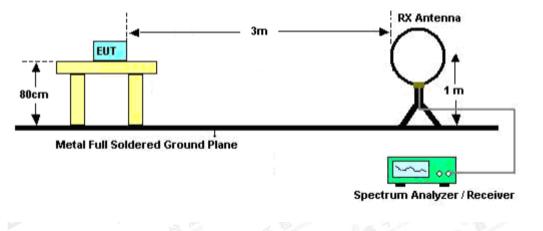




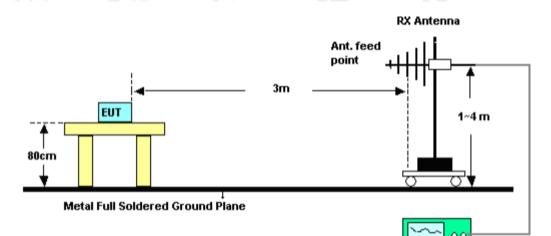
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9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



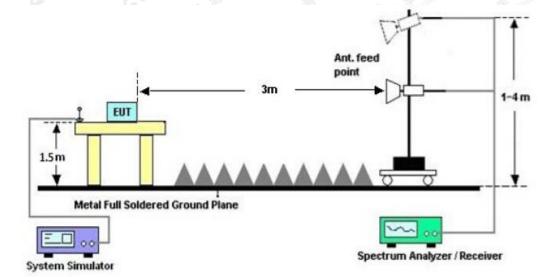
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Spectrum Analyzer / Receiver



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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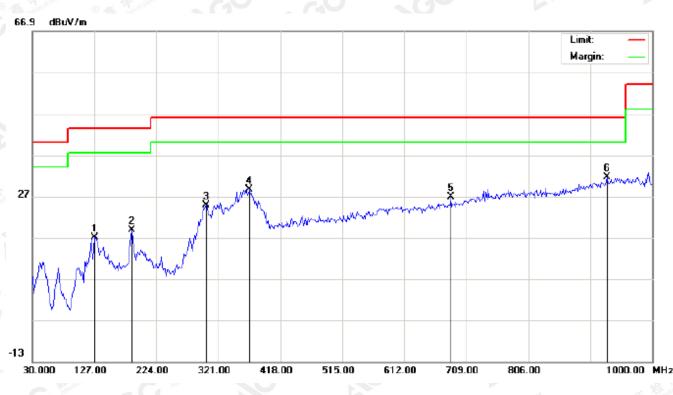
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9.4. TEST RESULT (Worst modulation: GFSK) FOR BR/EDR

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

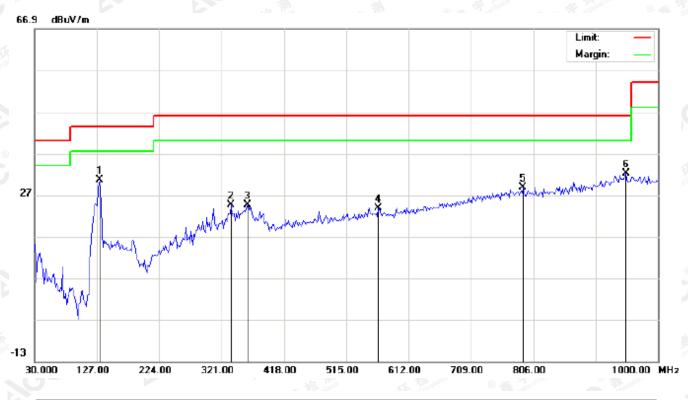


	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
142	1		127.0000	7.92	9.13	17.05	43.50	-26.45	peak			
0.	2		185.2000	7.59	11.31	18.90	43.50	-24.60	peak			
	3		301.6000	9.20	15.52	24.72	46.00	-21.28	peak			
	4		369.5000	9.76	18.87	28.63	46.00	-17.37	peak			
	5		684.7500	1.97	24.80	26.77	46.00	-19.23	peak			
	6	*	928.8667	2.20	29.41	31.61	46.00	-14.39	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
10		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
20	1	*	131.8500	18.80	11.80	30.60	43.50	-12.90	peak			
ſ	2		335.5500	6.91	17.78	24.69	46.00	-21.31	peak			
	3		361.4167	5.76	18.82	24.58	46.00	-21.42	peak			
	4		565.1167	1.22	22.56	23.78	46.00	-22.22	peak			
	5		789.8333	1.71	27.18	28.89	46.00	-17.11	peak			
1	6		949.8833	2.18	30.00	32.18	46.00	-13.82	peak			

RESULT: PASS

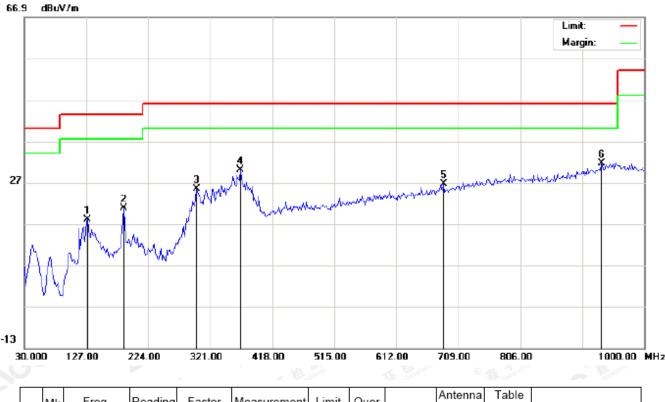
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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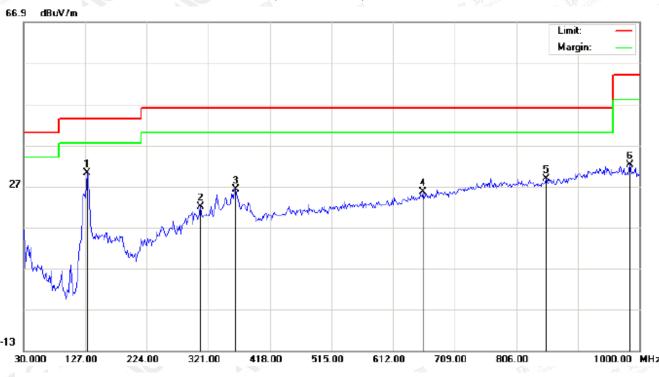
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		128.6167	8.04	9.88	17.92	43.50	-25.58	peak			
2		185.2000	9.44	11.31	20.75	43.50	-22.75	peak			
3		299.9833	10.09	15.41	25.50	46.00	-20.50	peak			
4		367.8833	11.24	18.86	30.10	46.00	-15.90	peak			
5		686.3667	1.83	24.85	26.68	46.00	-19.32	peak			
6	*	933.7167	2.14	29.55	31.69	46.00	-14.31	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		Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	130.2333	19.09	11.13	30.22	43.50	-13.28	peak			
2		308.0667	6.11	15.95	22.06	46.00	-23.94	peak			
3		364.6500	7.29	18.84	26.13	46.00	-19.87	peak			
4		658.8833	1.42	24.09	25.51	46.00	-20.49	peak			
5		852.8833	1.41	27.38	28.79	46.00	-17.21	peak			
6		985.4500	2.64	29.66	32.30	54.00	-21.70	peak			

RESULT: PASS

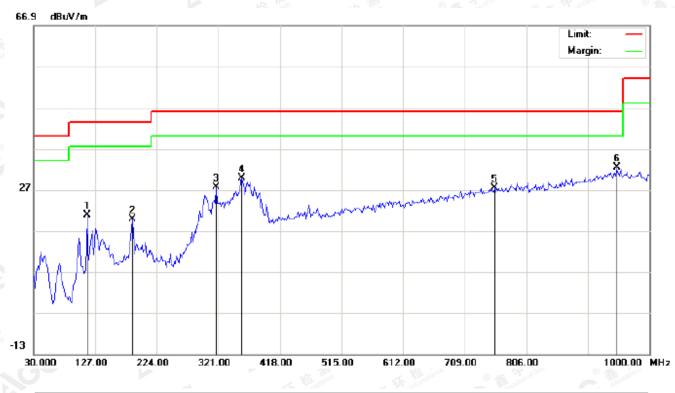
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

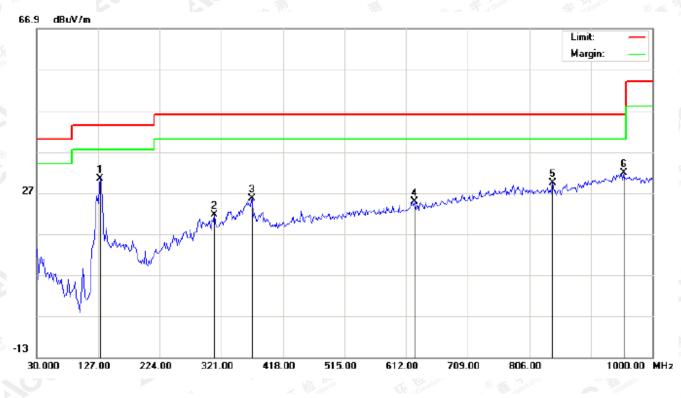
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		114.0667	13.63	7.23	20.86	43.50	-22.64	peak			
2		185.2000	8.43	11.31	19.74	43.50	-23.76	peak			
3		317.7667	11.10	16.59	27.69	46.00	-18.31	peak			
4		358.1833	11.03	18.79	29.82	46.00	-16.18	peak			
5		755.8833	0.60	26.71	27.31	46.00	-18.69	peak			
6	*	948.2667	2.44	29.95	32.39	46.00	-13.61	peak			

RESULT: PASS

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RADIATED EMISSION TEST-	(30MHz-1GHz)-HIGH CHANNEL	-VERTICAL
IN DIVIED ENIDOION TEOT			VERTIONE

	No.	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	
Ste	1	*	130.2333	19.21	11.13	30.34	43.50	-13.16	peak			
	2		309.6833	5.50	16.05	21.55	46.00	-24.45	peak			
	3		369.5000	6.64	18.87	25.51	46.00	-20.49	peak			
	4		624.9333	1.44	23.29	24.73	46.00	-21.27	peak			
	5		843.1833	2.01	27.31	29.32	46.00	-16.68	peak			
1	6		954.7333	1.89	29.95	31.84	46.00	-14.16	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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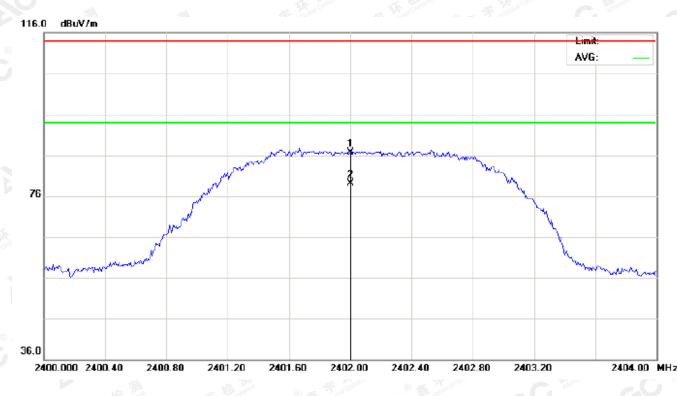
RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

FOR BR/EDR

For Fundamental

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

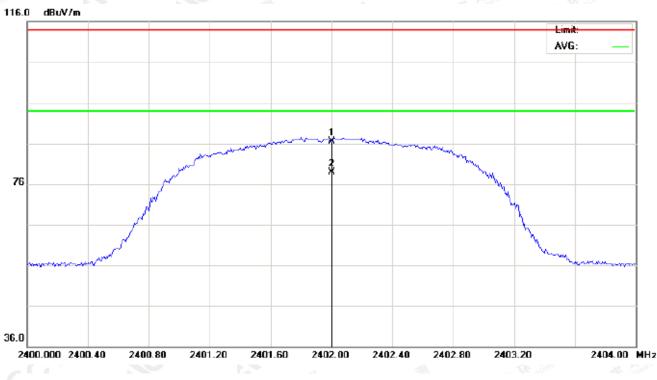


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	76.29	10.32	86.61	114.00	-27.39	peak			
2	*	2402.000	68.73	10.32	79.05	94.00	-14.95	AVG	100	69	

RESULT: PASS

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

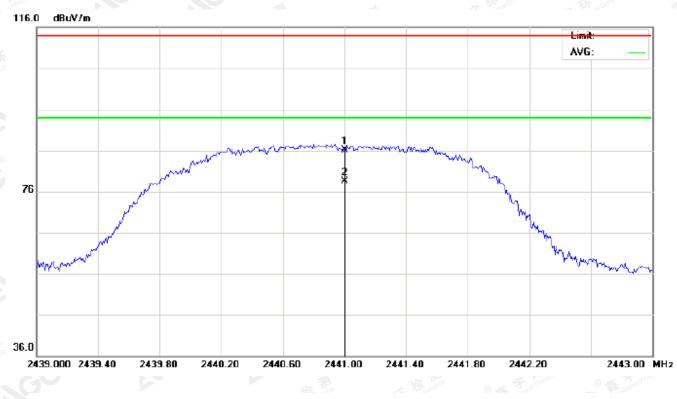
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	76.09	10.32	86.41	114.00	-27.59	peak			
2	*	2402.000	68.52	10.32	78.84	94.00	-15.16	AVG	100	331	

RESULT: PASS

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

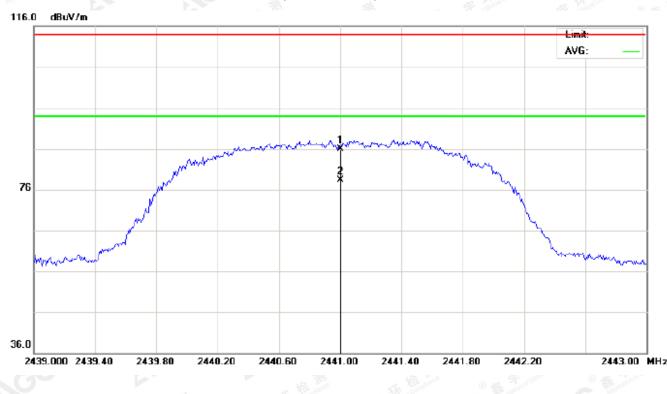
1	٧o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
j.		-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
ð	1		2441.000	75.81	10.36	86.17	114.00	-27.83	peak			
	2	*	2441.000	68.15	10.36	78.51	94.00	-15.49	AVG	100	65	

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
3		•	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
200	1		2441.000	75.58	10.36	85.94	114.00	-28.06	peak			
	2	*	2441.000	67.96	10.36	78.32	94.00	-15.68	AVG	100	314	

RESULT: PASS

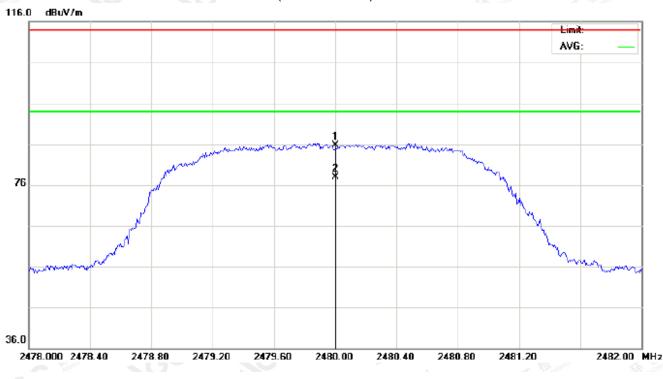
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RADIATED		1 EST- 0	1(¬H/)-HI(¬H	(HANNEL	-HORIZONTAL

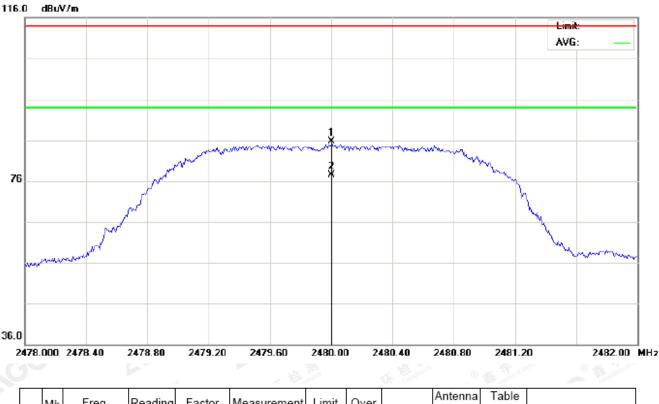
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
è [1		2480.000	75.33	10.41	85.74	114.00	-28.26	peak			
ß	2	*	2480.000	67.40	10.41	77.81	94.00	-16.19	AVG	100	73	

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
1		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
ie.	1		2480.000	75.22	10.41	85.63	114.00	-28.37	peak			
	2	*	2480.000	67.18	10.41	77.59	94.00	-16.41	AVG	100	324	

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	76.29	10.32	86.61	114	-27.39	Horizontal
2402	76.09	10.32	86.41	114	-27.59	Vertical
2441	75.81	10.36	86.17	114 🐋	-27.83	Horizontal
2441	75.58	10.36	85.94	114	-28.06	Vertical
2480	75.33	10.41	85.74	114	-28.26	Horizontal
2480	75.22	10.41	85.63	114	-28.37	Vertical
NILES.	The star	A L				line -

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	68.73	10.32	79.05	94 0	-14.95	Horizontal
2402	68.52	10.32	78.84	94	-15.16	Vertical
2441	68.15	10.36	78.51	94	-15.49	Horizontal
2441	67.96	10.36	78.32	94	-15.68	Vertical
2480	67.40	10.41	77.81	94	-16.19	Horizontal
2480	67.18	10.41	77.59	94	-16.41	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	75.75	10.32	86.07	114	-27.93	Horizontal
2402	75.58	10.32	85.90	114	-28.10	Vertical
2441	75.25	10.36	85.61	114	-28.39	Horizontal
2441	75.05	10.36	85.41	114	-28.59	Vertical
2480	74.82	10.41	85.23	114	-28.77	Horizontal
2480	74.66	10.41	85.07	114	-28.93	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	68.18	10.32	78.50	94	-15.50	Horizontal
2402	67.98	10.32	78.30	94	-15.70	Vertical
2441	67.61	10.36	77.97	94	-16.03	Horizontal
2441	67.41	10.36	77.77	94	-16.23	Vertical
2480	66.87	10.41	77.28	94	-16.72	Horizontal
2480	66.66	10.41	77.07	94	-16.93	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	75.27	10.32	85.59	114	-28.41	Horizontal
2402	75.11	10.32	85.43	114	-28.57	Vertical
2441	74.76	10.36	85.12	114	-28.88	Horizontal
2441	74.59	10.36	84.95	114	-29.05	Vertical
2480	74.36	10.41	84.77	114	-29.23	Horizontal
2480	74.18	10.41	84.59	114	-29.41	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	67.71	10.32	78.03	94	-15.97	Horizontal	
2402	67.49	10.32	77.81	94	-16.19	Vertical	
2441	67.12	10.36	77.48	94	-16.52	Horizontal	
2441	66.93	10.36	77.29	94	-16.71	Vertical	
2480	66.40	10.41	76.81	94	-17.19	Horizontal	
2480	66.19	10.41	76.60	94	-17.40	Vertical	

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(Worst modulation: GFSK)

FOR BR/EDR

For Harmonics

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL 116.0 dBuV/m Limit: Margin: 76 36.0 1000.000 1500.00 2000.00 2500.00 3000.00 3500.00 4000.00 4500.00 5000.00 6000.00 MHz Antenna Table Over Freq. Reading Factor Measurement Limit Mk Height Degree No. Detector Comment dBu∨ dB/m MHz dBuV/m dBuV/m dB cm degree 1 2175.000 34.00 10.07 44.07 74.00 -29.93 peak 2 3616.667 33.55 12.83 46.38 74.00 -27.62 peak

74.00

23 10

peak

50.90

RESULT: PASS

3

4804.000

7.69

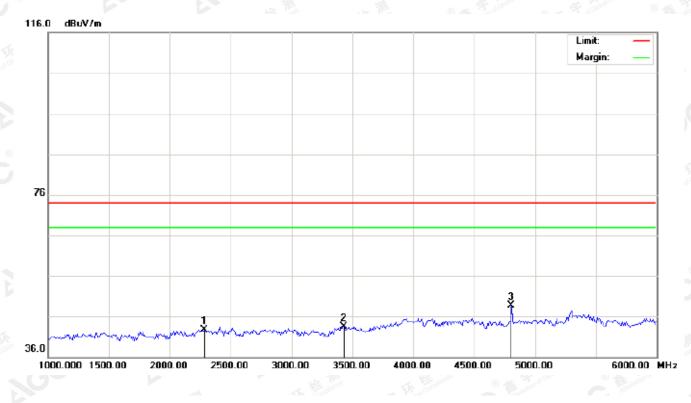
43.21

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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
8		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
	1		2283.333	32.41	10.19	42.60	74.00	-31.40	peak			
	2		3433.333	31.54	12.05	43.59	74.00	-30.41	peak			
	3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

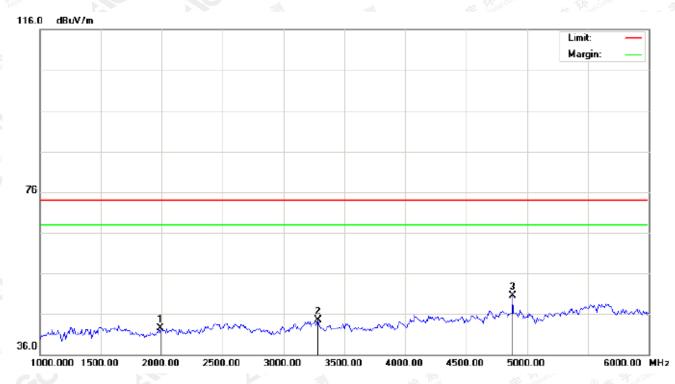
RESULT: PASS

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

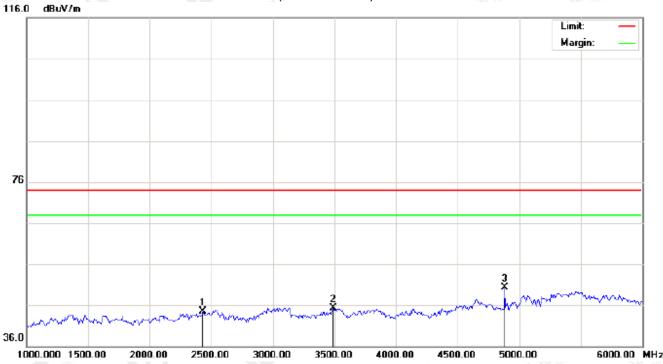
	۷o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
8		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
8	1		1991.667	32.70	9.79	42.49	74.00	-31.51	peak			
	2		3283.333	32.67	11.91	44.58	74.00	-29.42	peak			
	3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

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	dBuV/m	dBuV/m	dB		cm	degree	
1		2433.333	34.05	10.36	44.41	74.00	-29.59	peak			
2		3491.667	33.15	12.10	45.25	74.00	-28.75	peak			
3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

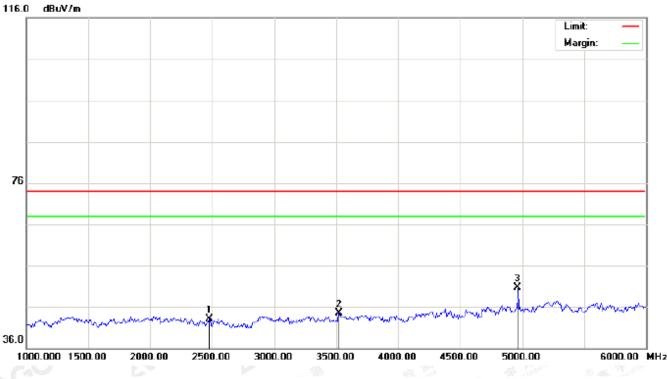
RESULT: PASS

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

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
0	1		2475.000	32.73	10.40	43.13	74.00	-30.87	peak			
	2		3525.000	32.29	12.26	44.55	74.00	-29.45	peak			
	3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak			

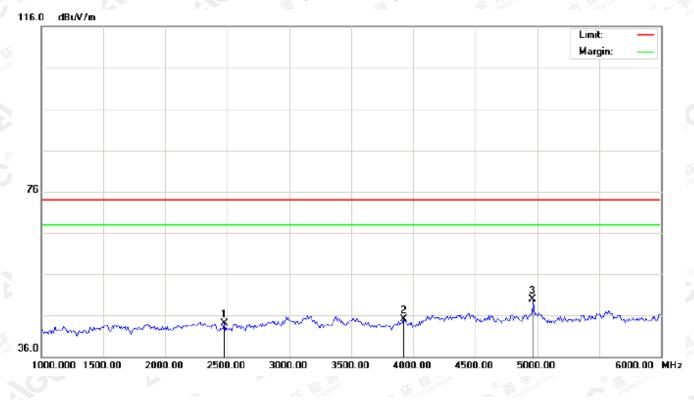
RESULT: PASS

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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
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2475.000	33.61	10.40	44.01	74.00	-29.99	peak			
2		3925.000	30.33	14.73	45.06	74.00	-28.94	peak			
3	*	4960.000	41.91	8.09	50.00	74.00	-24.00	peak			

RESULT: PASS

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

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

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



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10. BAND EDGE EMISSION

10.1. MEASUREMENT PROCEDURE

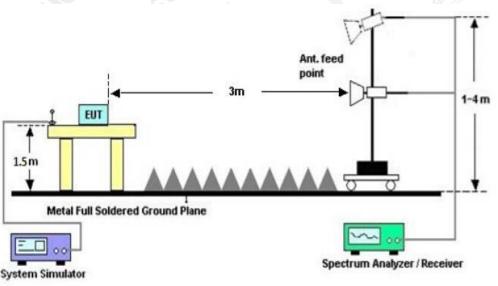
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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

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

Start frequenc	y(MHz)		Stop frequency(MH	z)
2200	The The second	not C Stratuto	2405	SC -
2478	Global C	GO	2500	
Alle				2000

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP





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10.3 RADIATED TEST RESULT (Worst modulation: GFSK) FOR BR/EDR

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



74.00

74.00

74.00

30.69

-21.21

12.54

peak

peak

peak

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2

3

4

33.00

42.47

76.22

10.31

10.32

10.32

43.31

52.79

86.54

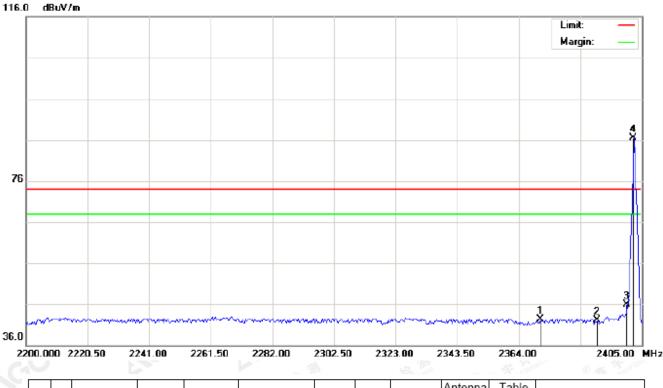
2390.000

2400.000

2402.000



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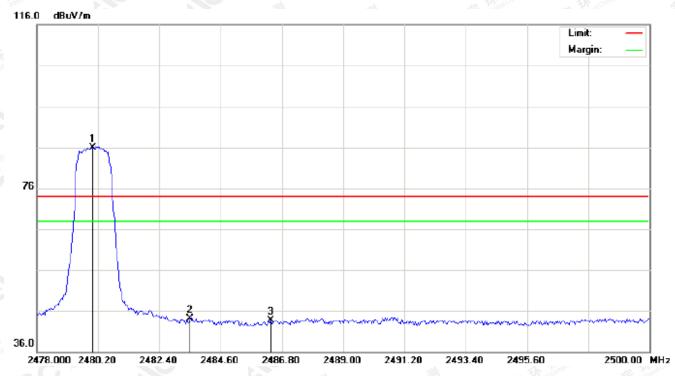
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
8	2	•	MHz	dBu∀	dB/m	dBuV/m	dBu\//m	dB		cm	degree	
,tic	1		2371.175	32.08	10.29	42.37	74.00	-31.63	peak			
	2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
	3		2400.000	35.56	10.32	45.88	74.00	-28.12	peak			
	4	*	2402.000	76.09	10.32	86.41	74.00	12.41	peak			



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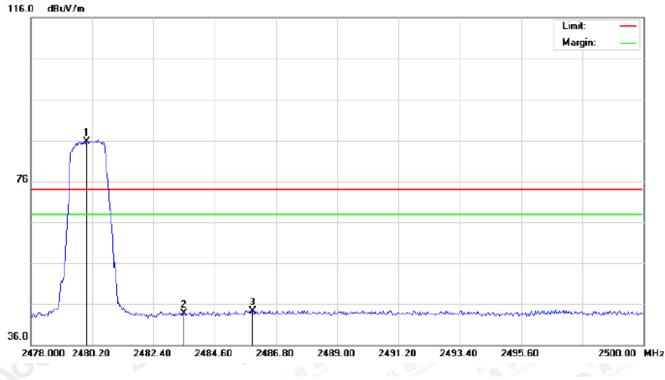
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	75.55	10.41	85.96	74.00	11.96	peak			
2		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
3		2486.396	33.36	10.41	43.77	74.00	-30.23	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	dBu∨/m	dB		cm	degree	
1	*	2480.000	75.32	10.41	85.73	74.00	11.73	peak			
2		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
3		2485.957	33.98	10.41	44.39	74.00	-29.61	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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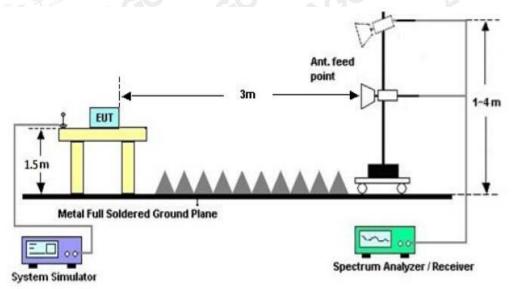
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11. 20DB BANDWIDTH

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

FOR BR/EDR

BLUET	BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT										
		Measure	ement Result								
Applicable Limits		Test Data (MHz)	Desult								
		99%OBW (MHz)	-20dB BW(MHz)	Result							
The Construction of Manufacture	Low Channel	0.953	1.115	PASS							
N/A	Middle Channel	0.955	1.079	PASS							
	High Channel	0.966	1.108	PASS							

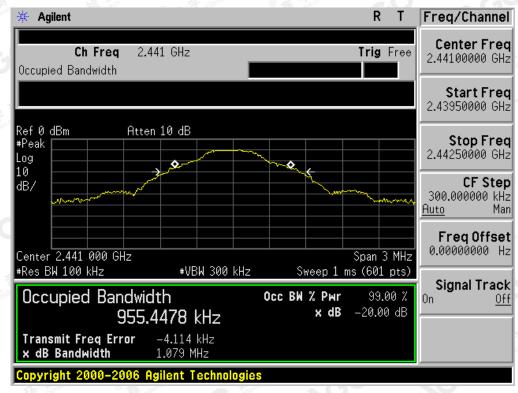


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



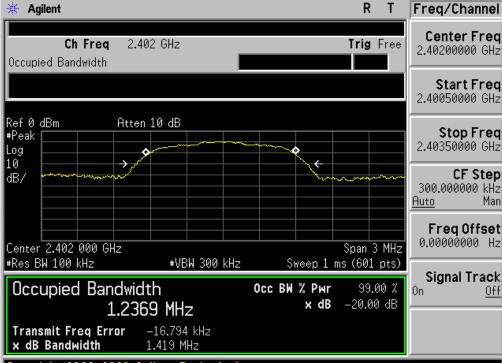


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



BLUET	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT		
		Measure	ement Result		
Applicable Limits		Result			
		99%OBW (MHz)	-20dB BW(MHz)	Result	
The second second	Low Channel	1.237	1.419	PASS	
N/A	Middle Channel	1.251	1.418	PASS	
SGC "	High Channel	1.250	1.421	PASS	
	10-	-100	M. M. G.	open Aller	

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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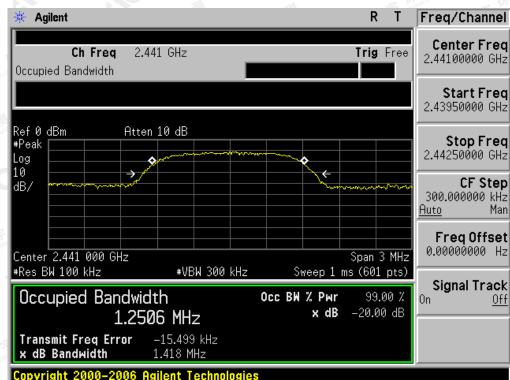
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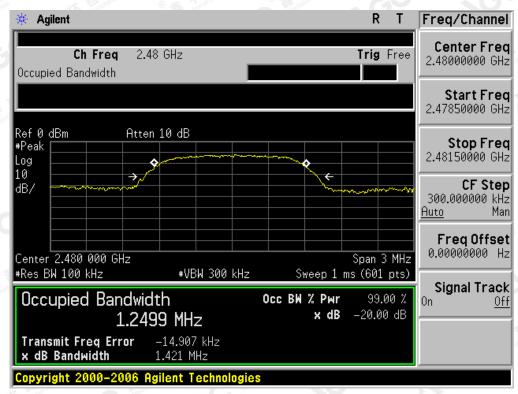
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



Alles	litze	Å.	- Male	XC Collin	
BLUET	DOTH 3MBPS LIN	ITS AND MEASU	REMENT RESULT		
		Measure	ement Result		
Applicable Limits		Decult			
		99%OBW (MHz)	-20dB BW(MHz)	Result	
The the and the the second	Low Channel	1.259	1.417	PASS	
N/A	Middle Channel	1.253	1.414	PASS	
	High Channel	1.254	1.415	PASS	
		- illin	M. M. G.	obu Altu	

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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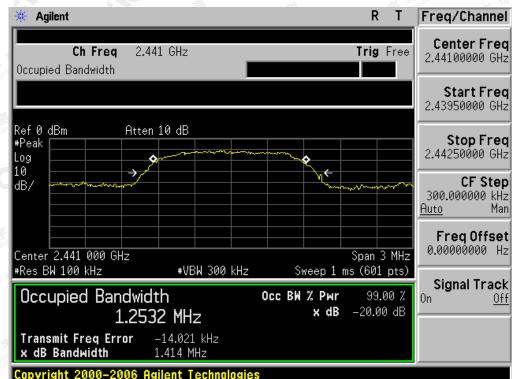
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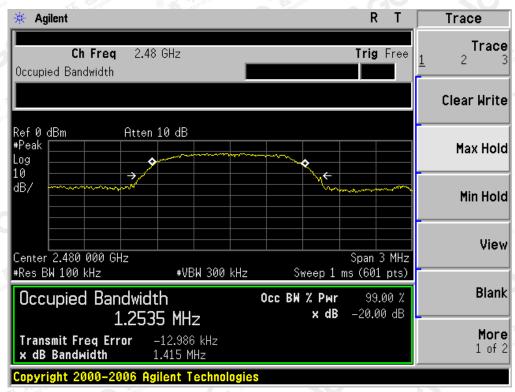
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

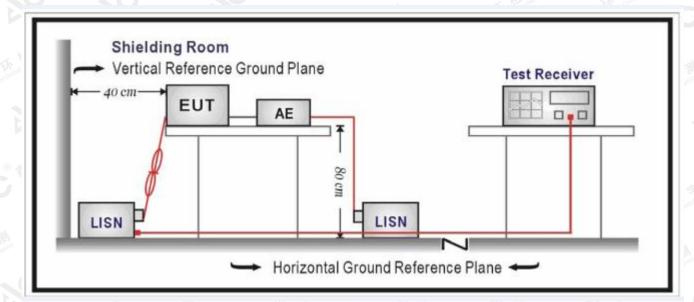
Francisco	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	56	46						
5MHz~30MHz	60	50						

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.
- 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.



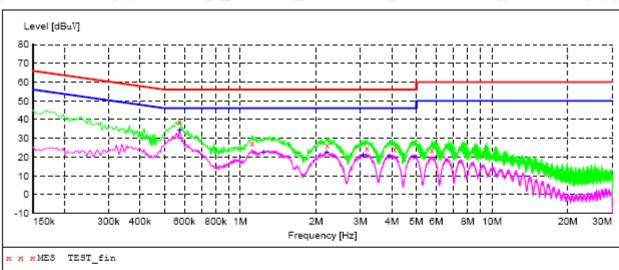
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR



Line Conducted Emission Test Line 1-L

MEASUREMENT RESULT: "TEST fin"

2018/3/20 9:42 Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.574000 1.114000 2.214000 3.182000 4.098000 5.762000	38.40 27.20 26.50 24.90 23.90 23.80	11.4 11.3 11.3 11.4 11.4 11.3	56 56 56 56 60	32.1	QP QP QP QP	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO FLO

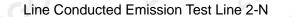
MEASUREMENT RESULT: "TEST fin2"

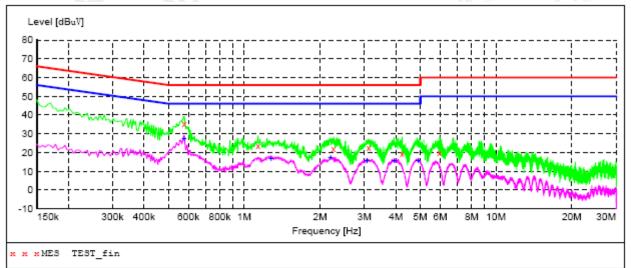
201	18/3/20 Frequen M			Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
	0.5740	00	34.10	11.4	46	11.9	AV	L1	FLO
	1.2380	00	22.70	11.3	46	23.3	AV	L1	FLO
	2.2060	00	22.30	11.3	46	23.7	AV	L1	FLO
	3.0740	00	21.00	11.4	46	25.0	AV	L1	FLO
	3.9060	00	20.30	11.4	46	25.7	AV	L1	FLO
	4.8900	00	20.00	11.4	46	26.0	AV	L1	FLO





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MEASUREMENT RESULT: "TEST fin"

2018/3/20 9:47 Limit Margin ΡE Frequency Level Transd Detector Line MHz dBuV dB dBuV dB 0.578000 35.30 11.4 56 20.7 Ν FLO QP 1.134000 23.60 11.3 56 32.4 QP Ν FLO 2.262000 22.10 11.3 56 33.9 QP Ν FLO 56 3.126000 22.60 11.4 33.4 QP Ν FLO 4.234000 19.30 11.4 56 36.7 QP Ν FLO 5.958000 40.3 FLO 19.70 11.3 60 QP Ν

MEASUREMENT RESULT: "TEST fin2"

2018/3/20 9:47 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.578000	27.40	11.4	46	18.6	AV	N	FLO
1.278000	16.90	11.3	46	29.1	AV	N	FLO
2.202000	17.00	11.3	46	29.0	AV	N	FLO
3.074000	15.70	11.4	46	30.3	AV	Ν	FLO
3.938000	15.70	11.4	46	30.3	AV	N	FLO
4.910000	15.40	11.4	46	30.6	AV	Ν	FLO



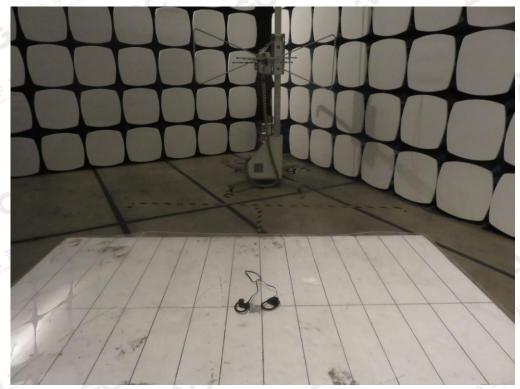


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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP

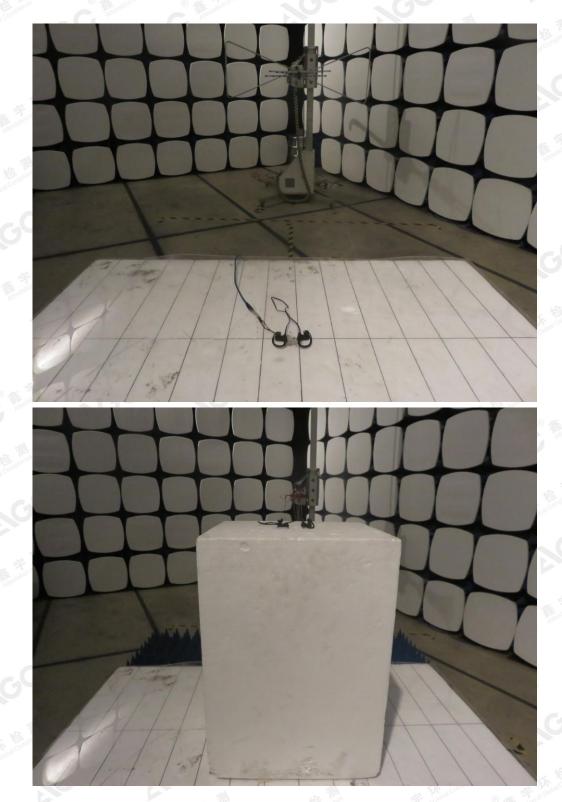


FCC RADIATED EMISSION TEST SETUP





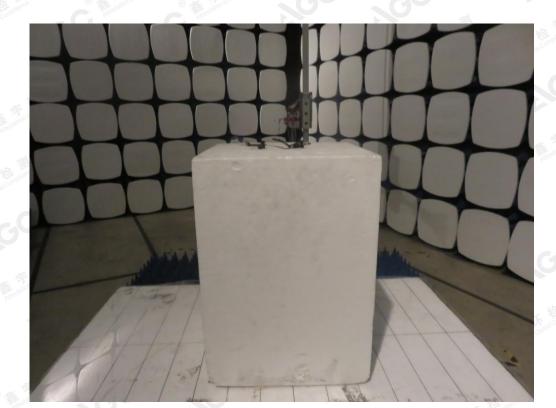
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TOP VIEW OF EUT ō 90 80 02 09 50 10 30 06 00L 05 09 02 80 05 09 01 08 06 00L 01 50 09 01 08 06 0 0,2

APPENDIX B: PHOTOGRAPHS 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

8 -99 50 40 30 202 001 09 09 00 Ó OL 02 30 07 01 08 0 50 30 10 0,2 0.6 07 0,9 0,8 00 50 20

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VIEW OF EUT (PORT)



OPEN VIEW OF EUT

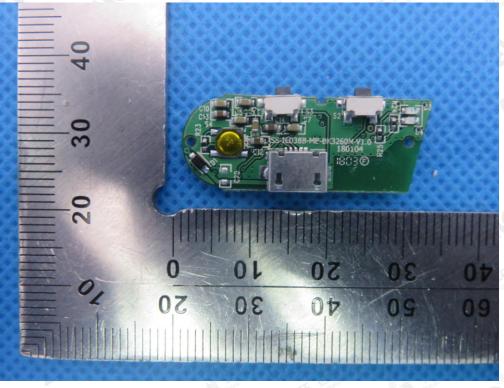


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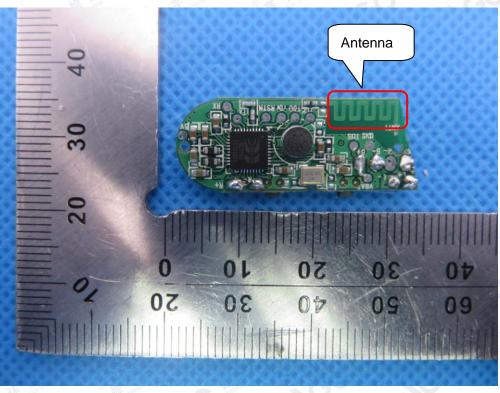


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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2

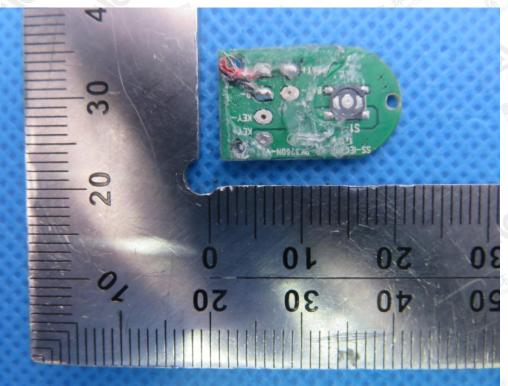




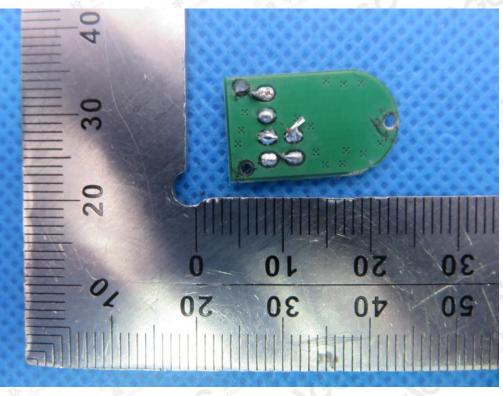


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INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



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INTERNAL VIEW OF EUT-5



VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

----END OF REPORT----

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