

FCC Test Report

Report No.: AGC02457180401FE03

FCC ID : 2AOKX-SS-NB006B

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION : WIRELESS RETRACTABLE EXECUTIVE AROUND THE

NECK HEADSET

BRAND NAME : N/A

MODEL NAME : See Page 4

CLIENT: Shenzhen Swetz Sound Technology Co., Limited

DATE OF ISSUE : Apr. 23, 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	And I See See	Apr. 23, 2018	Valid	Initial release



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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	WIRELESS RETRACTABLE EXECUTIVE AROUND THE NECK HEADSET
Brand Name	N/A
Test Model	SS-NB006B
Series Model	DRH-12/1119, RE-1641, 72590, 72592
Difference description	All the same except for the model name and appearance color.
Date of test	Apr. 03, 2018 to Apr. 13, 2018
Deviation	None None
Condition of Test Sample	Normal The state of the state o
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	Jowhen Wang	
® Manufact of Second Computer	Jonhen Wang(Wang Yonghuan)	Apr. 13, 2018
Reviewed By	Forrestoci	
onnollarice ® ###	Forrest Lei(Lei Yonggang)	Apr. 23, 2018



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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-1.66dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.1
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 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
Note: The USB port only	used for charging and can't be used to transfer data with PC.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
100	0	2402MHz
The Manager	THE STATE OF	2403MHz
® Francisco de Codas Co	AGC: NO	
CC CC	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
The Company of Colonic Col	40	2442 MHz
of clothand		
	77	2479 MHz
	78	2480 MHz



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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

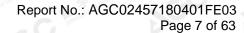
- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

4. DESCRIPTION OF TEST MODES

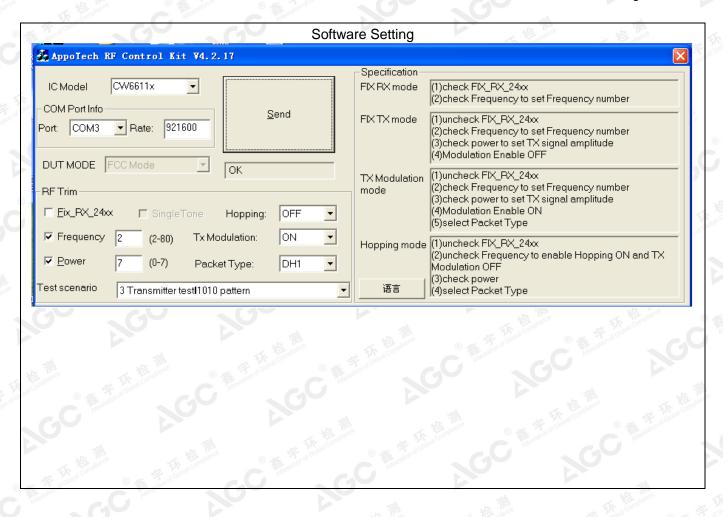
NO.	TEST MODE DESCRIPTION
@ ## Jod Godo" @ ##	Low channel GFSK
2 2	Middle channel GFSK
3	High channel GFSK
超测 4 报题	Low channel π /4-DQPSK
© 5 ont close	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
8 8 Mary and all	Middle channel 8DPSK
9	High channel 8DPSK
10	BT Link with charging
11 The Completion	BT Link
117	

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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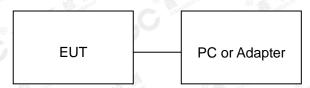


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5. SYSTEM TEST CONFIGURATION

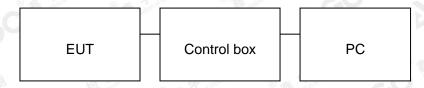
5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



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

Item	Equipment	Mfr/Brand	Model/Type No.	Remark	
1	WIRELESS RETRACTABLE EXECUTIVE AROUND THE NECK HEADSET	Swetz Sound	SS-NB006B	EUT THE COMMENT OF THE COMMENT	
2	Battery	HDT	401230	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	DOFLY	N/A	A.E	
5	Adapter	IPRO 🍇	NTR-S01	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

Part -	
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	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	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	G	Mar. 01, 2018	Feb. 28, 2020
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018
Filter (2.4-2.483GHz)	Micro-tronics	087	20	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 Strengths Limit						
(MHz)	Meters	μ V/m	dB(μV)/m					
0.009 ~ 0.490	300	2400/F(kHz)	2					
0.490 ~ 1.705	30	24000/F(kHz)	技术					
1.705 ~ 30	30	30	Se Se Colonico (Colonico de Colonico de Co					
30 ~ 88	3	100	40.0					
88 ~ 216	3 G	150	43.5					
216 ~ 960	3	200	46.0					
960 ~ 1000	3	500	54.0					
Above 1000	3. M	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)
- 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.
- 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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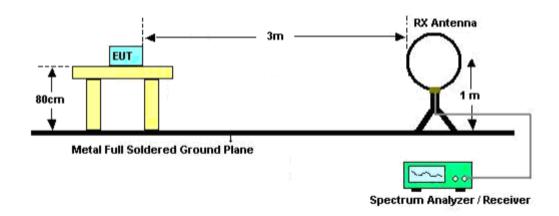
The following table is the setting of spectrum analyzer and receiver.

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

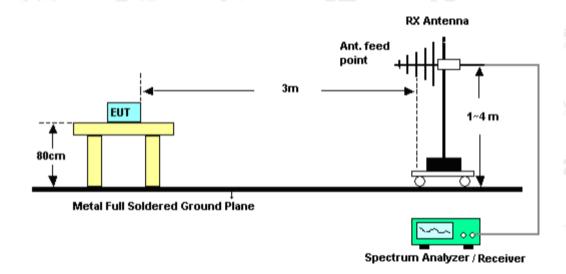


9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz

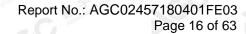


RADIATED EMISSION TEST SETUP 30MHz-1000MHz



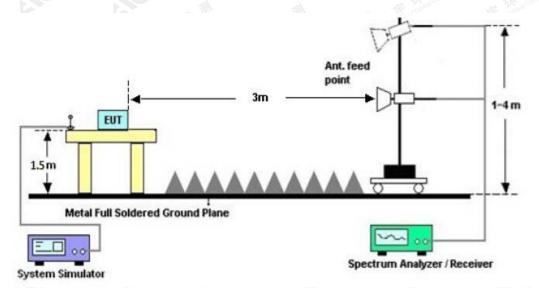
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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

FOR BR/EDR

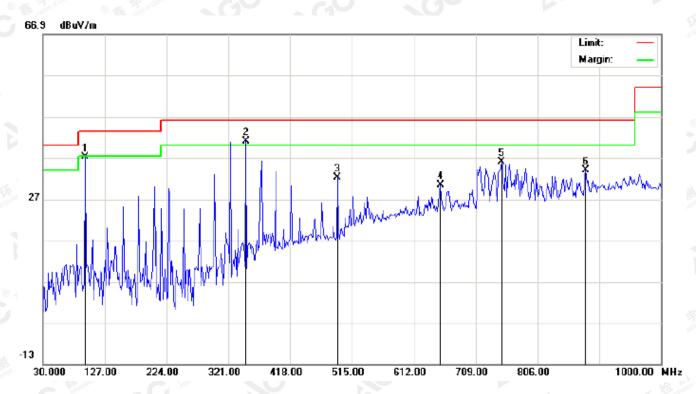
(Worst modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

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

RADIATED EMISSION BELOW 1GHz

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



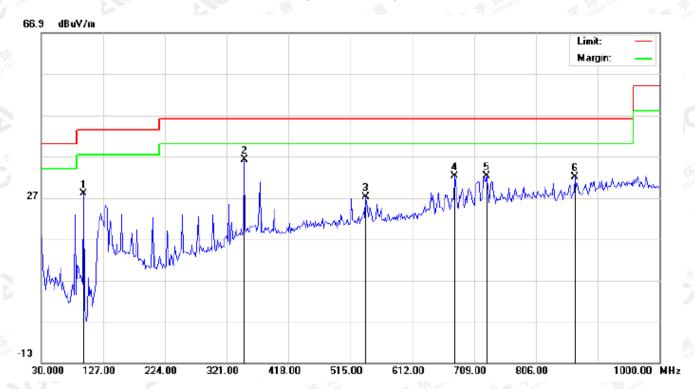
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		96.2832	30.36	6.77	37.13	43.50	-6.37	peak			
2	*	348.4832	22.31	18.64	40.95	46.00	-5.05	peak			
3		492.3666	11.22	21.05	32.27	46.00	-13.73	peak			
4		654.0333	6.40	23.96	30.36	46.00	-15.64	peak			
5		749.4166	9.38	26.61	35.99	46.00	-10.01	peak			
6		881.9832	5.77	28.14	33.91	46.00	-12.09	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
4		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		96.2833	28.02	0.05	28.07	43.50	-15.43	peak			
2	*	348.4833	17.62	18.64	36.26	46.00	-9.74	peak			
3		539.2500	5.09	22.19	27.28	46.00	-18.72	peak			
4		678.2833	7.61	24.61	32.22	46.00	-13.78	peak			
5		728.4000	6.21	26.01	32.22	46.00	-13.78	peak			
6		867.4333	4.16	27.76	31.92	46.00	-14.08	peak			

RESULT: PASS

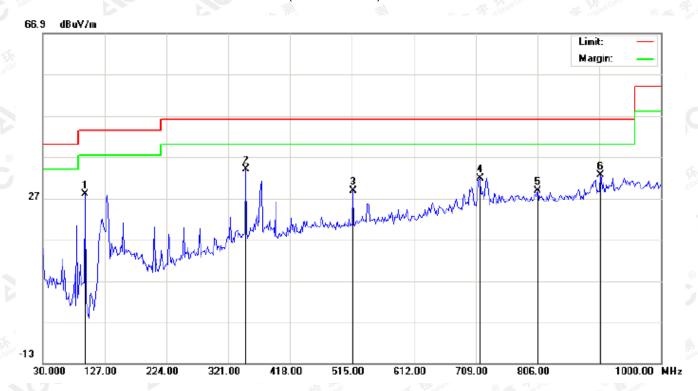
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



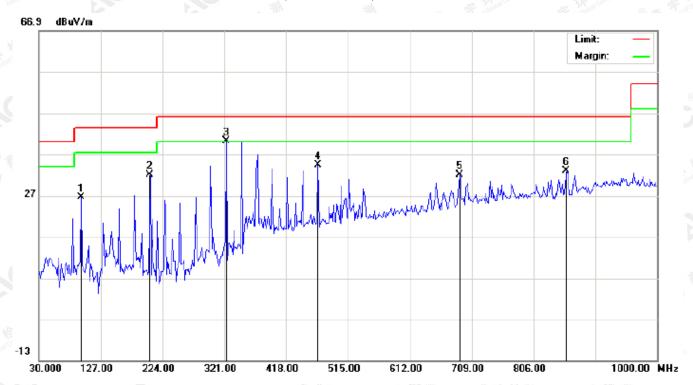
N	o. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
4	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		96.2833	27.90	0.05	27.95	43.50	-15.55	peak			
2	*	348.4833	15.39	18.64	34.03	46.00	-11.97	peak			
3		516.6167	7.32	21.58	28.90	46.00	-17.10	peak			
4		715.4667	6.17	25.64	31.81	46.00	-14.19	peak			
5		806.0000	1.40	27.32	28.72	46.00	-17.28	peak			
6		904.6167	3.88	28.74	32.62	46.00	-13.38	peak			

RESULT: PASS



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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree		
1		96.2832	19.88	6.77	26.65	43.50	-16.85	peak				
2		204.5999	20.43	11.53	31.96	43.50	-11.54	peak				
3	*	324.2332	23.27	17.02	40.29	46.00	-5.71	peak				
4		468.1166	13.61	20.79	34.40	46.00	-11.60	peak				
5		689.6000	7.04	24.93	31.97	46.00	-14.03	peak				
6		857.7332	5.48	27.51	32.99	46.00	-13.01	peak				

RESULT: PASS

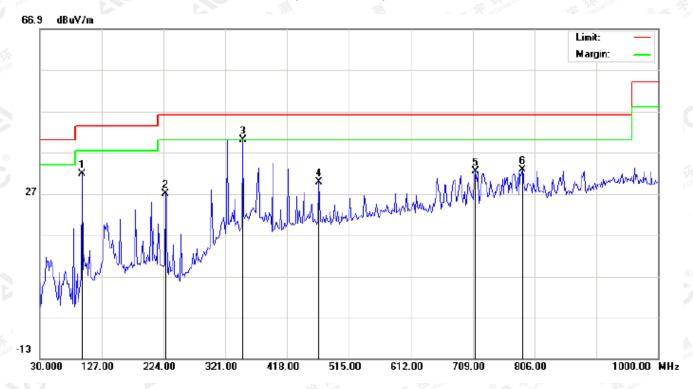
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



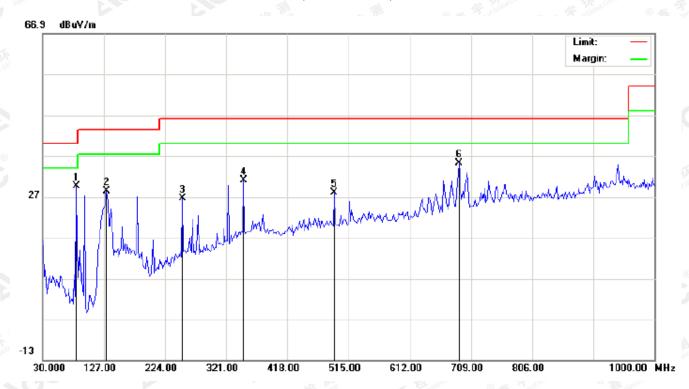
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		96.2833	25.01	6.77	31.78	43.50	-11.72	peak			
2		227.2333	17.72	9.22	26.94	46.00	-19.06	peak			
3	*	348.4833	21.46	18.64	40.10	46.00	-5.90	peak			
4		468.1167	8.93	20.79	29.72	46.00	-16.28	peak			
5		713.8500	6.82	25.61	32.43	46.00	-13.57	peak			
6		786.6000	5.62	27.14	32.76	46.00	-13.24	peak			

RESULT: PASS



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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	83.3500	26.69	3.00	29.69	40.00	-10.31	peak			
2		131.8500	16.57	11.80	28.37	43.50	-15.13	peak			
3		251.4833	12.60	13.94	26.54	46.00	-19.46	peak			
4		348.4833	12.44	18.64	31.08	46.00	-14.92	peak			
5		492.3667	7.05	21.05	28.10	46.00	-17.90	peak			
6		689.6000	10.23	24.91	35.14	46.00	-10.86	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.



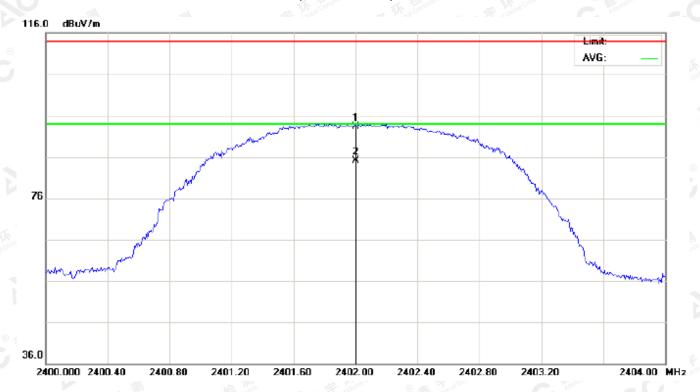
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RADIATED EMISSION ABOVE 1GHz FOR BR/EDR

(Worst modulation: GFSK)

For Fundamental

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



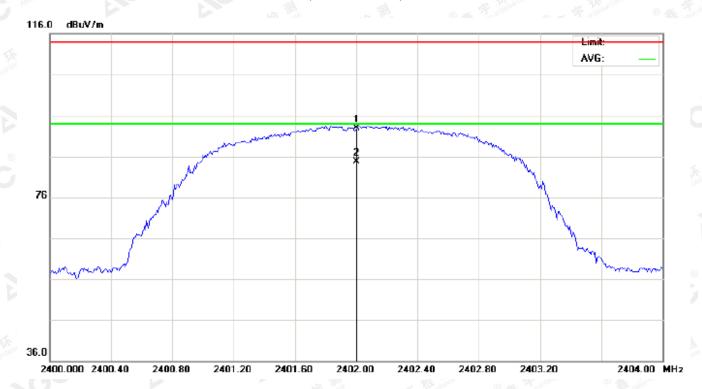
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	82.89	10.32	93.21	114.00	-20.79	peak			
2	*	2402.000	74.69	10.32	85.01	94.00	-8.99	AVG	100	314	

RESULT: PASS



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



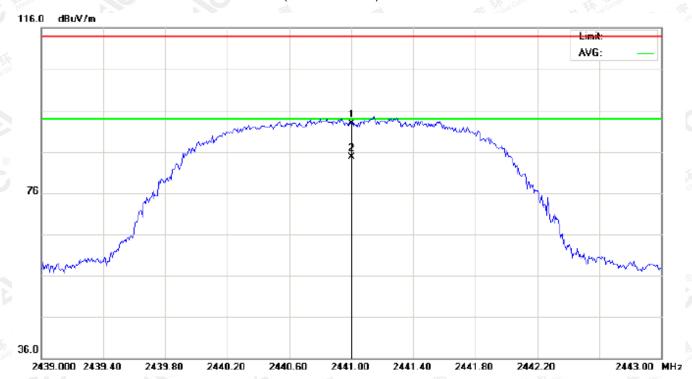
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	82.64	10.32	92.96	114.00	-21.04	peak			
2	*	2402.000	74.41	10.32	84.73	94.00	-9.27	AVG	100	122	

RESULT: PASS



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



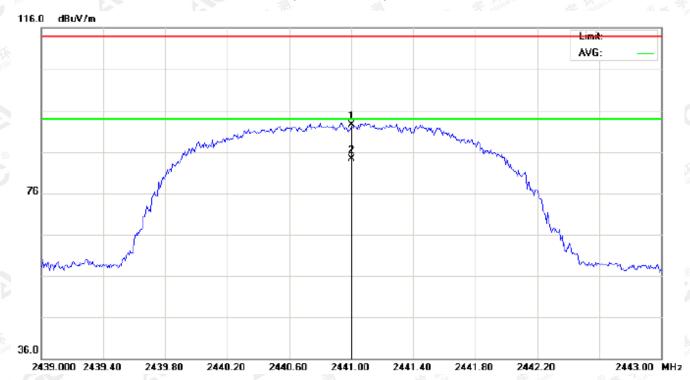
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	82.52	10.36	92.88	114.00	-21.12	peak			
2	*	2441.000	74.32	10.36	84.68	94.00	-9.32	AVG	100		

RESULT: PASS



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



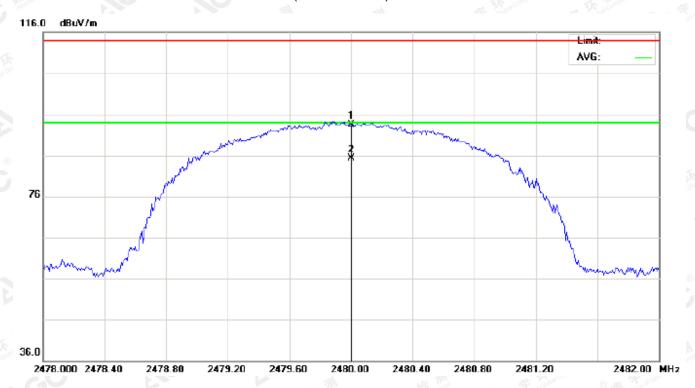
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2441.000	82.17	10.36	92.53	114.00	-21.47	peak			
2	*	2441.000	73.95	10.36	84.31	94.00	-9.69	AVG	100	117	

RESULT: PASS



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



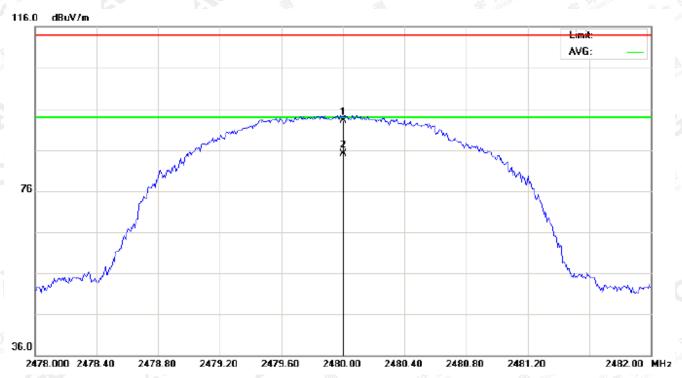
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2480.000	83.13	10.41	93.54	114.00	-20.46	peak			
2	*	2480.000	74.93	10.41	85.34	94.00	-8.66	AVG	100	304	

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	82.90	10.41	93.31	114.00	-20.69	peak			
2	*	2480.000	74.71	10.41	85.12	94.00	-8.88	AVG	100		

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	Factor Measurement		Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	82.89	10.32	93.21	114	-20.79	Horizontal	
2402	82.64	10.32	92.96	114	-21.04	Vertical	
2441	82.52	10.36	92.88	114	-21.12	Horizontal	
2441	82.17	10.36	92.53	114	-21.47	Vertical	
2480	83.13	10.41	93.54	114	-20.46	Horizontal	
2480	82.90	10.41	93.31	114	-20.69	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	74.69	10.32	85.01	94	-8.99	Horizontal	
2402	74.41	10.32	84.73	94	-9.27	Vertical	
2441	74.32	10.36	84.68	94	-9.32	Horizontal	
2441	73.95	10.36	84.31	94	-9.69	Vertical	
2480	74.93	10.41	85.34	94	-8.66	Horizontal	
2480	74.71	10.41	85.12	94	-8.88	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	82.45	10.32	92.77	114	-21.23	Horizontal
2402	82.24	10.32	92.56	114	-21.44	Vertical
2441	82.15	10.36	92.51	114	-21.49	Horizontal
2441	81.82	10.36	92.18	114	-21.82	Vertical
2480	82.67	10.41	93.08	114	-20.92	Horizontal
2480	82.47	10.41	92.88	114	-21.12	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	74.22	10.32	84.54	94	-9.46	Horizontal
2402	73.98	10.32	84.30	94	-9.70	Vertical
2441	73.83	10.36	84.19	94	-9.81	Horizontal
2441	73.49	10.36	83.85	94	-10.15	Vertical
2480	74.60	10.41	85.01	94	-8.99	Horizontal
2480	74.32	10.41	84.73	94	-9.27	Vertical



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3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Factor Measurement		Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	82.13	10.32	92.45	114	-21.55	Horizontal
2402	81.91	10.32	92.23	114	-21.77	Vertical
2441	81.70	10.36	92.06	114	-21.94	Horizontal
2441	81.35	10.36	91.71	114	-22.29	Vertical
2480	82.21	10.41	92.62	114	-21.38	Horizontal
2480	82.06	10.41	92.47	114	-21.53	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.77	10.32	84.09	94	-9.91	Horizontal
2402	73.67	10.32	83.99	94	-10.01	Vertical
2441	73.35	10.36	83.71	94	-10.29	Horizontal
2441	73.13	10.36	83.49	94	-10.51	Vertical
2480	74.20	10.41	84.61	94	-9.39	Horizontal
2480	73.98	10.41	84.39	94	-9.61	Vertical



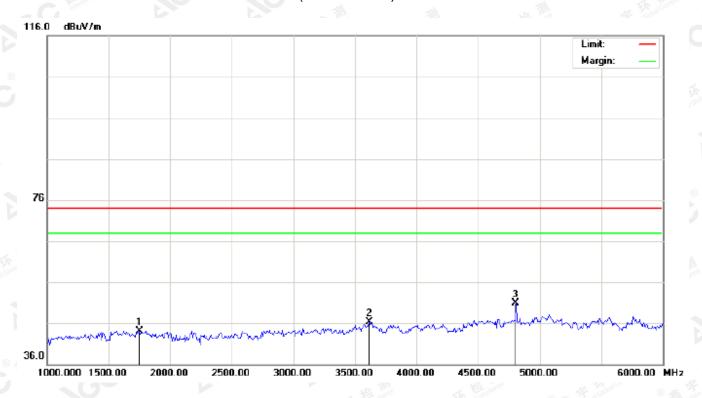
age 32 of 63

FOR BR/EDR

(Worst modulation: GFSK)

For Harmonics

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



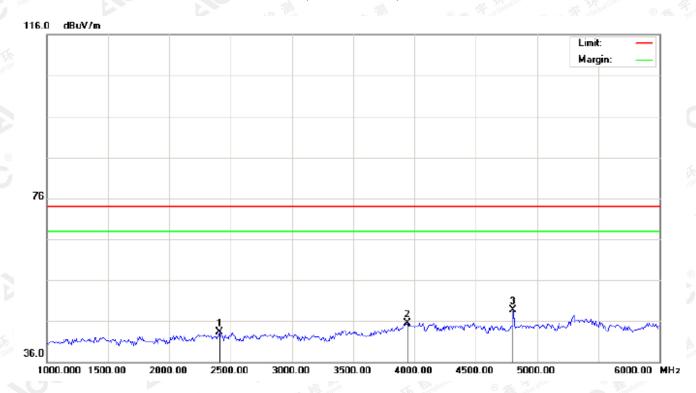
N	о.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		- [MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
	1		1750.000	36.85	7.25	44.10	74.00	-29.90	peak			
	2		3616.667	33.55	12.83	46.38	74.00	-27.62	peak			
	3	*	4804.000	43.21	7.69	50.90	74.00	-23.10	peak			

RESULT: PASS



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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2408.333	32.93	10.33	43.26	74.00	-30.74	peak			
2		3941.667	30.73	14.83	45.56	74.00	-28.44	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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2533.333	33.18	10.51	43.69	74.00	-30.31	peak			
2		4075.000	31.69	13.94	45.63	74.00	-28.37	peak			
3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

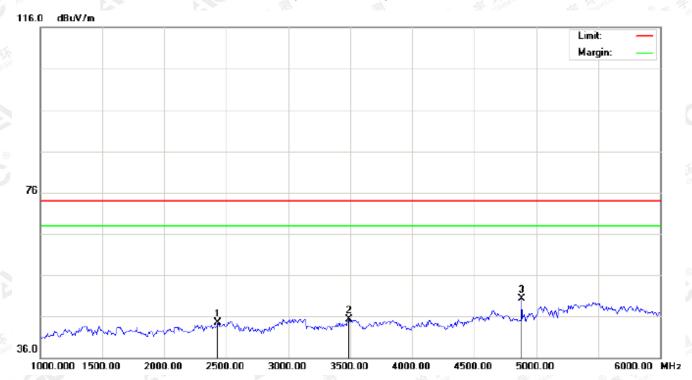
RESULT: PASS

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



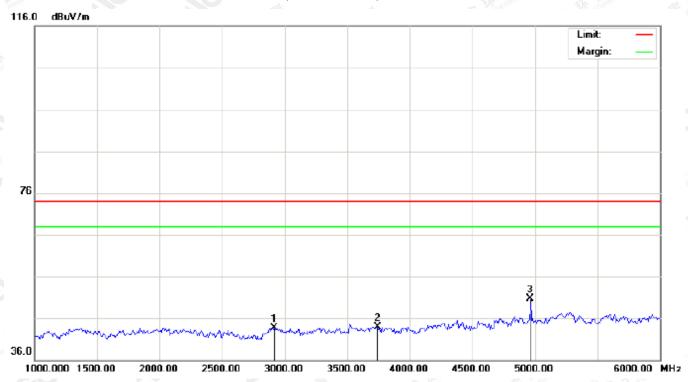
No	о.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
,	1		2433.333	34.05	10.36	44.41	74.00	-29.59	peak			
7	2		3491.667	33.15	12.10	45.25	74.00	-28.75	peak			
	3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

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
a l		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2916.667	32.26	11.44	43.70	74.00	-30.30	peak			
2		3741.667	30.27	13.60	43.87	74.00	-30.13	peak			
3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak			

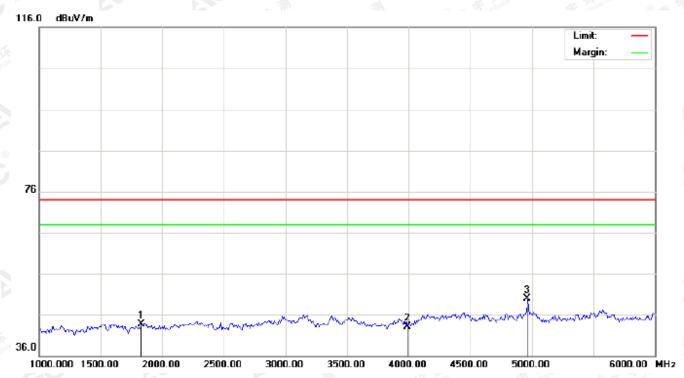
DECILIT: DACC

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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
a l	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		1833.333	35.66	8.13	43.79	74.00	-30.21	peak			
2		3991.667	28.06	15.14	43.20	74.00	-30.80	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

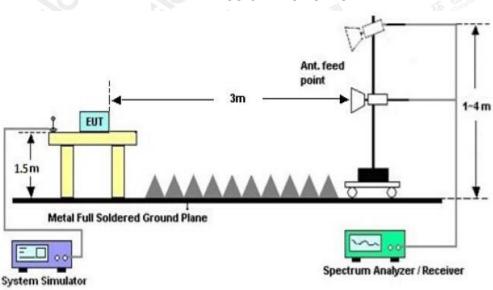
10.1. MEASUREMENT PROCEDURE

- 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(Mi	Hz)	Stop frequency(MHz)				
	2200	孤 marco	C. S.	2405	-CO		
8 4	2478	® Attentation of Grow	CO "	2500			

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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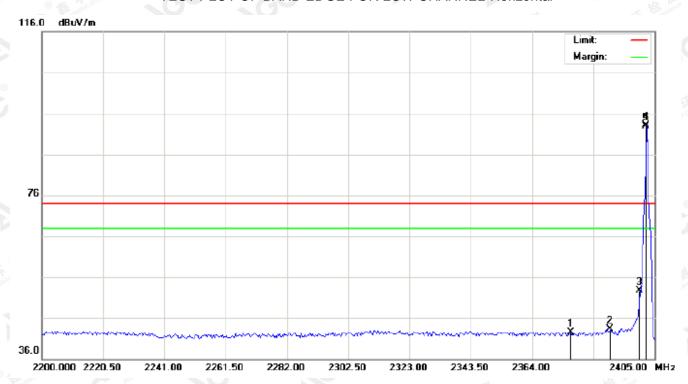
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10.3 RADIATED TEST RESULT

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
	<u> </u>	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2376.983	32.16	10.29	42.45	74.00	-31.55	peak			
2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	82.88	10.32	93.20	74.00	19.20	peak			
5	Х	2402.000	74.63	10.32	84.95	74.00	10.95	AVG	100	345	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



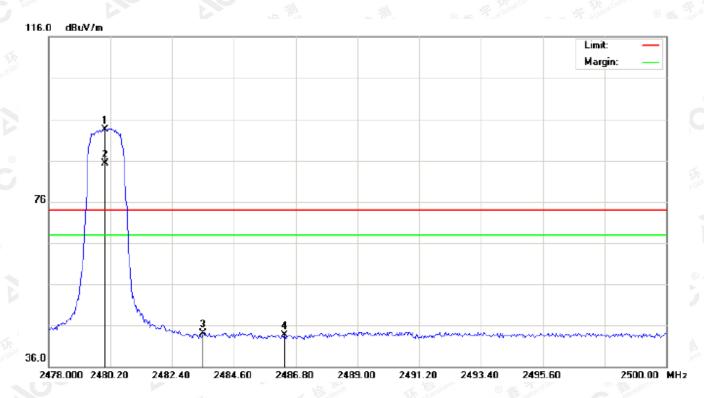
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
9	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2379.033	31.88	10.30	42.18	74.00	-31.82	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	82.66	10.32	92.98	74.00	18.98	peak			
5	Х	2402.000	74.40	10.32	84.72	74.00	10.72	AVG	100	140	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



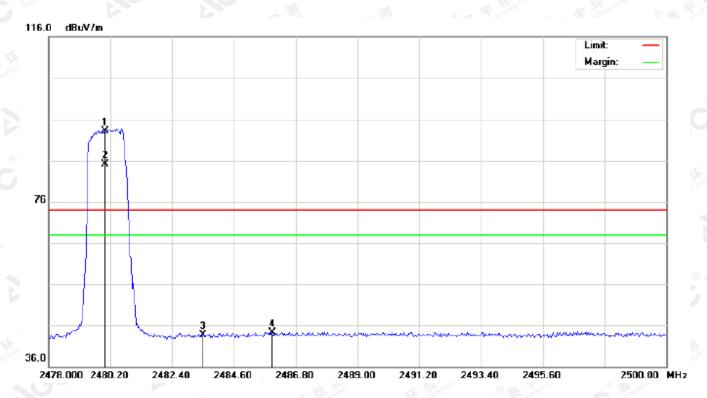
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2480.000	83.12	10.41	93.53	74.00	19.53	peak			
2	Х	2480.000	74.91	10.41	85.32	74.00	11.32	AVG	100	304	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		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	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	82.75	10.41	93.16	74.00	19.16	peak			
2	Х	2480.000	74.60	10.41	85.01	74.00	11.01	AVG	100	102	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		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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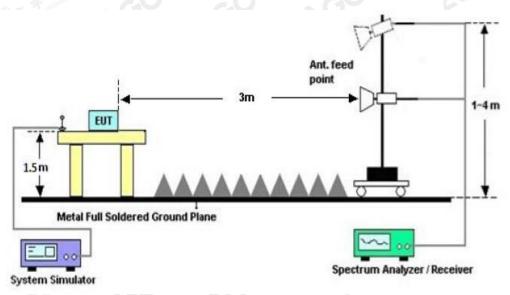
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11. 20DB BANDWIDTH

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 ≥ 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	MITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Result						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
School Company	Low Channel	0.968	1.126	PASS				
N/A	Middle Channel	0.981	1.147	PASS				
	High Channel	0.970	1.126	PASS				

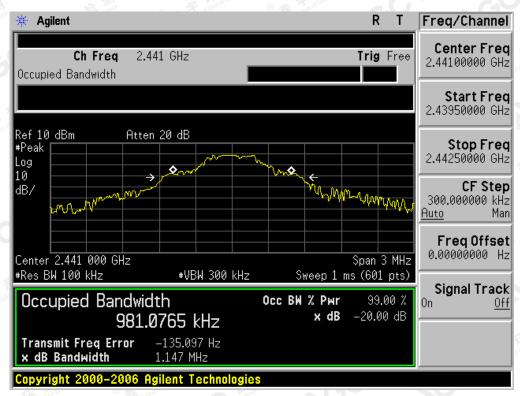
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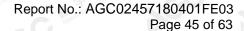
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

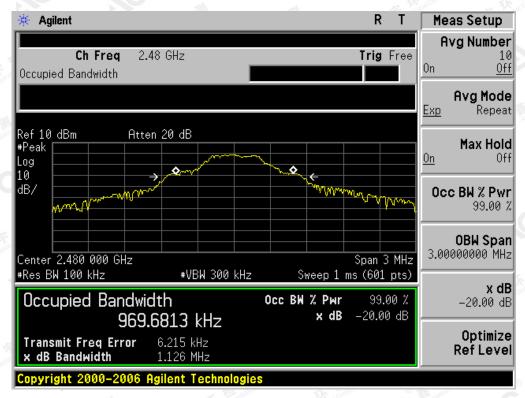


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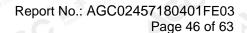




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Nic.				
BLUETO	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT	
		Measure	ement Result	
Applicable Limits		Dooult		
		Result		
TA BENDANCE TA BENDANCE	Low Channel	1.182	1.332	PASS
N/A	Middle Channel	1.132	1.282	PASS
CO "	High Channel	1.156	1.300	PASS

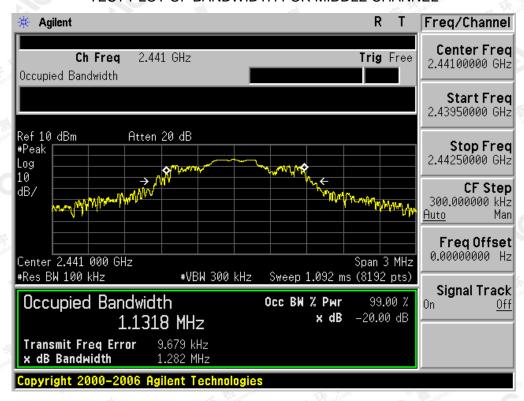
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



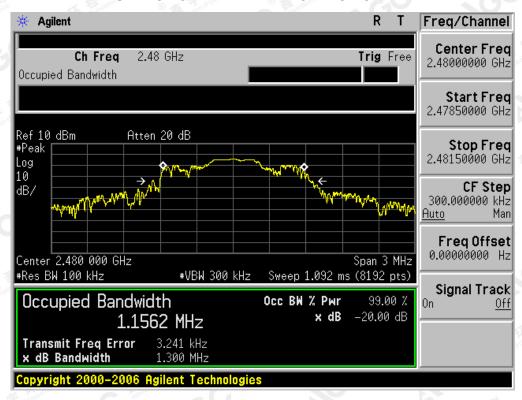
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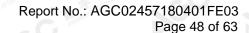
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Vile.	litze	- A	7/1/20	3/1 Co.,				
BLUETO	OOTH 3MBPS LIN	MITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Result						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The fill of the fi	Low Channel	1.161	1.275	PASS				
N/A	Middle Channel	1.210	1.298	PASS				
	High Channel	1.152	1.273	PASS				

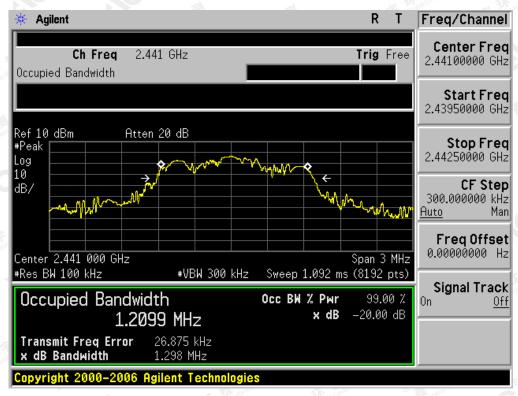
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



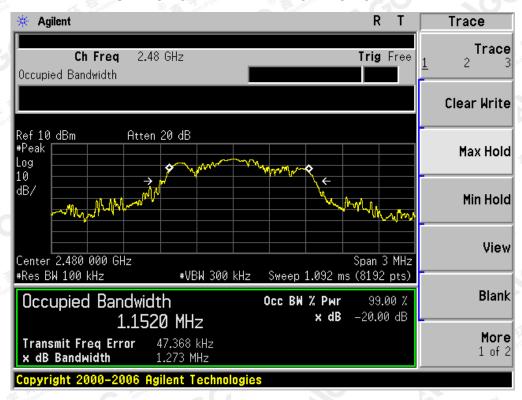
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

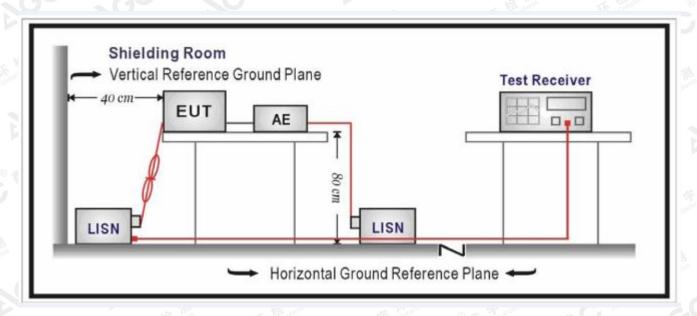
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF	Line Voltage
Frequency	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46/
5MHz~30MHz	9 60	50

Note:

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

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter or PC which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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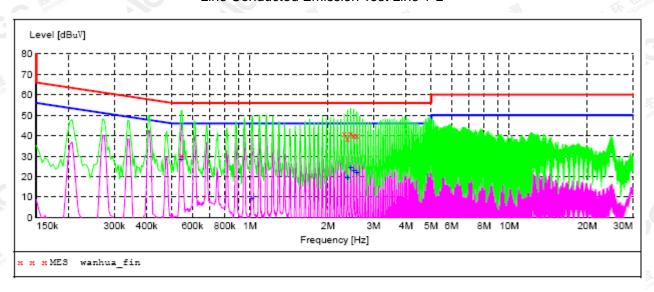
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "wanhua fin"

2	018-4-9 17:15 Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
	MHz	dBuV	dB	dBuV	dB				
	0.546000 2.310000 2.378000 2.446000 2.514000 2.586000	30.30 41.20 38.40 40.90 39.90 40.10	0.2 0.3 0.3 0.3 0.3	56 56 56 56 56	25.7 14.8 17.6 15.1 16.1 15.9	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO FLO	ON ON ON ON ON

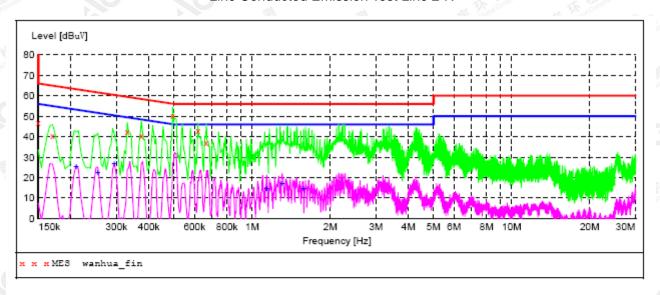
MEASUREMENT RESULT: "wanhua fin2"

2018-4-9 17:15 Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.542000 1.018000 2.378000 2.450000 2.518000 2.586000	28.40 9.00 19.70 24.60 23.00 21.90	0.2 0.2 0.3 0.3 0.3	46 46 46 46 46	17.6 37.0 26.3 21.4 23.0 24.1	AV AV AV AV AV	L1 L1 L1 L1 L1 L1	FLC FLC FLC FLC FLC	ON ON ON ON ON

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Line Conducted Emission Test Line 2-N



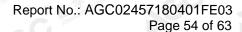
MEASUREMENT RESULT: "wanhua fin"

2018-4-9 14:04 Frequency				-	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.150000	46.80	0.2	80	33.2	QP	N	FLO	ON
0.170000	40.40	0.2	65	24.6	QP	N	FLO	ON
0.330000	42.50	0.2	60	17.0	QP	N	FLC	ON
0.374000	40.70	0.2	58	17.7	QP	N	FLO	ON
0.494000	50.20	0.2	56	5.9	QP	N	FLO	ON
0.618000	42.90	0.2	56	13.1	QP	N	FLO	OM
0.666000	37.30	0.2	56	18.7	QP	N	FLC	ON

MEASUREMENT RESULT: "wanhua fin2"

2018-4-9 14:04 Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				UINIL
0.210000 0.254000 0.294000 1.138000 1.306000 1.578000	25.50 22.40 26.80 14.50 17.20 14.50	0.2 0.2 0.2 0.2 0.2 0.2	53 52 50 46 46 46	27.7 29.2 23.6 31.5 28.8 31.5	AV AV AV AV AV	N N N N N	FLC FLC FLC FLC FLC	ON ON ON ON ON

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP

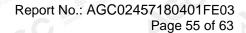


FCC RADIATED EMISSION TEST SETUP

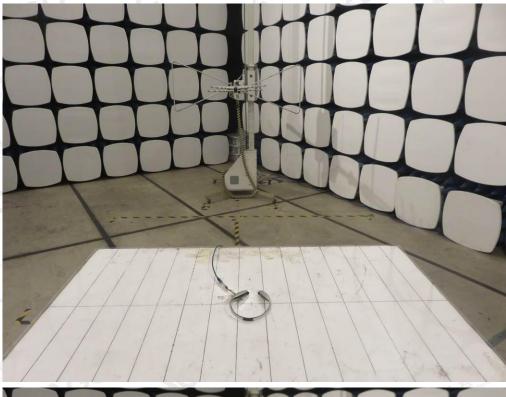


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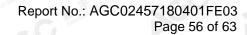








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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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VIEW OF EUT (PORT)



OPEN VIEW OF EUT

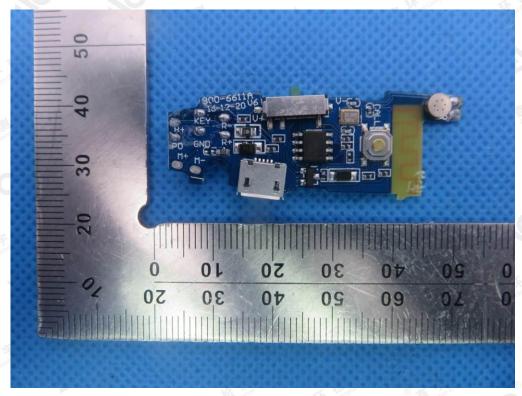


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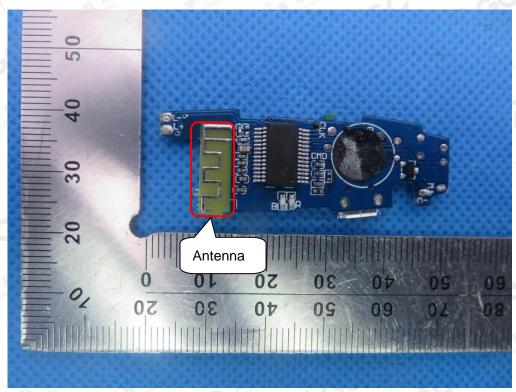
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2

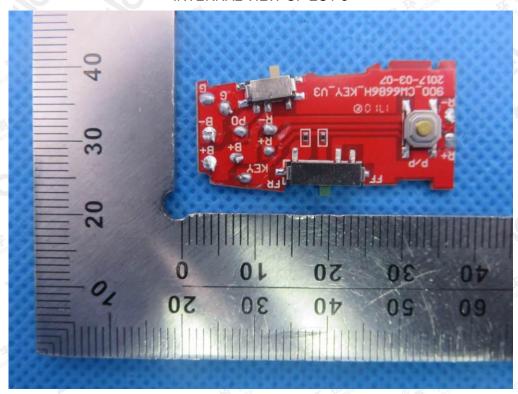


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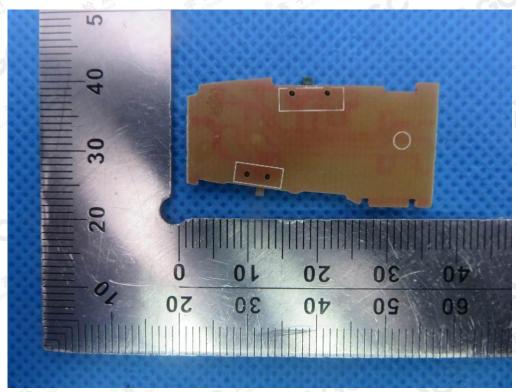
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INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4

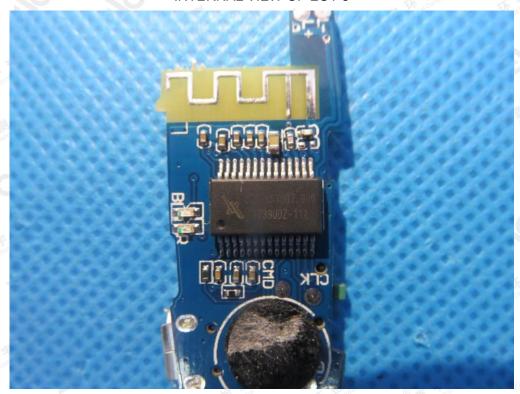


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INTERNAL VIEW OF EUT-5



VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

----END OF REPORT----

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