

FCC Test Report

Report No.: AGC00807180406FE03

FCC ID : 2AI7L-BT081

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Wireless Speakers

BRAND NAME : TACTIX

MODEL NAME : BT081, BTXXX(X FOR 0-9 and A-Z)

CLIENT: Meridian International Co., Ltd.

DATE OF ISSUE : May 14, 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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Attestation of Global Compliance

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	A Land Control of the	May 14, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Meridian International Co., Ltd.
Address	1886 Laiyin Road, Songjiang, Shanghai, China
Manufacturer	DONGGUAN TAIDE INDUSTRIAL CO., LTD.
Address	Phase 2, Jinfenghuang Industrial District, Huangdong Village, Fenggang Town, Dongguan City, China.
Product Designation	Wireless Speakers
Brand Name	TACTIX
Test Model	BT081
Series Model	BTXXX(X FOR 0-9 and A-Z)
Difference description	All the same except for the model name.
Date of test	Apr. 26, 2018 to May 09, 2018
Deviation	None State of the
Condition of Test Sample	Normal Mormal
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	Tom Two			
abal Compliance	Tom Tuo(Tuo Dewei)	May 09, 2018		
Reviewed By	and change			
The standard of cloud Communication	Cool Cheng(Cheng Mengguo)	May 14, 2018		
Approved By	Forresto ce	3 A Thomas of College Complained		
GC Metallion of	Forrest Lei(Lei Yonggang) Authorized Officer	May 14, 2018		

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

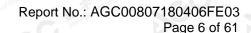
2 N 2 N 2 N 2 N 2 N 2 N 2 N 2 N 2 N 2 N	
Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-2.73dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, □8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V1.1
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	0dBi
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 Mill and the second	The state of the s	2403MHz	
8 Figure of Clothat Co.	GC: CO		
CC CC	38	2440 MHz	
2400~2483.5MHz	39	2441 MHz	
The templates @ Manufacture and the second s	40	2442 MHz	
of Globald C. G. Allegan	CO DO		
	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

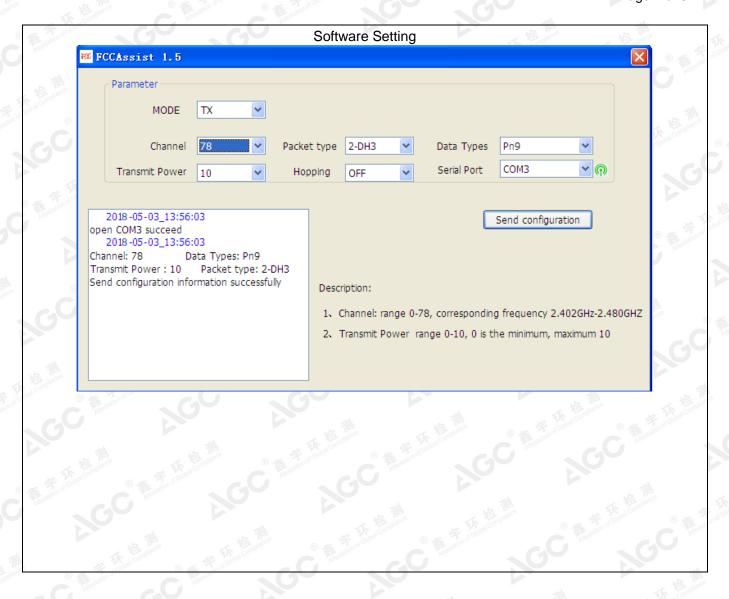
NO.	TEST MODE DESCRIPTION			
© ## Janat Globa	Low channel GFSK			
2 3	Middle channel GFSK			
3	High channel GFSK			
报题 4 报	Low channel π /4-DQPSK			
© 5 on d close	Middle channel π /4-DQPSK			
6	High channel π /4-DQPSK			
7	BT Link with charging			
# Marcant 8 @ M	BT Link			

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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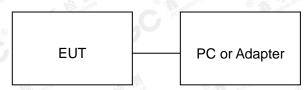


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5. SYSTEM TEST CONFIGURATION

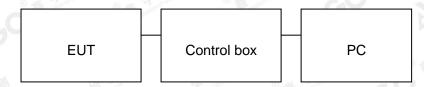
5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



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

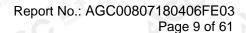
Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Wireless Speakers	TACTIX	BT081	EUT
2	Battery	YT YT	903036	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	GZUT	N/A	A.E
5	Adapter	IPRO	NTR-S01	A.E
6	USB Cable	N/A	1m unshielded	A.E
7	USB Cable	N/A	0.63m unshielded	Accessory
8	AUX in 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	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	C AME	Mar. 01, 2018	Feb. 28, 2019
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	-C	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)	9				
0.490 ~ 1.705	30	24000/F(kHz)	技訓				
1.705 ~ 30	30	30	E Cobaco (Color of Color of Co				
30 ~ 88	3	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 The state of the	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.

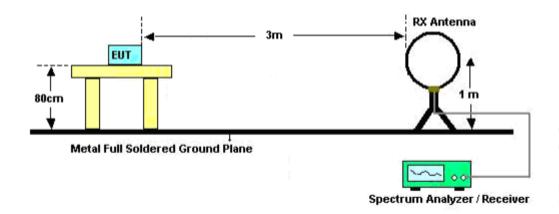
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz 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

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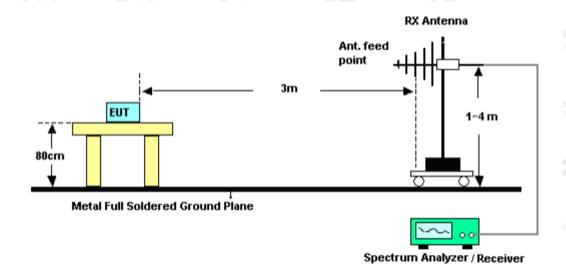


9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



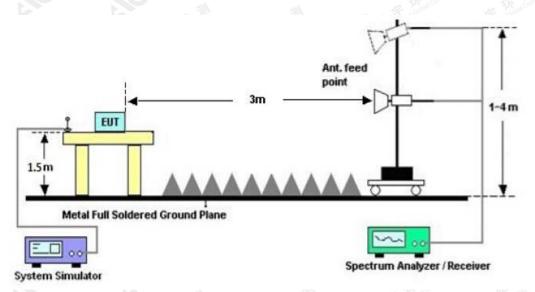
RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

FOR BR/EDR

(Worst modulation: π /4-DQPSK)

RADIATED EMISSION BELOW 30MHz

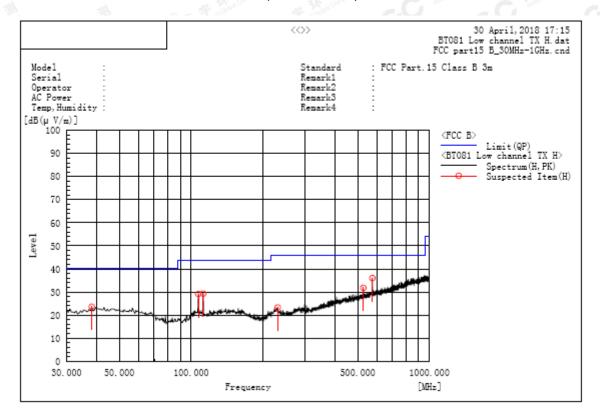
No emission found between lowest internal used/generated frequencies to 30MHz.

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RADIATED EMISSION BELOW 1GHz

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



A. Suspected List:

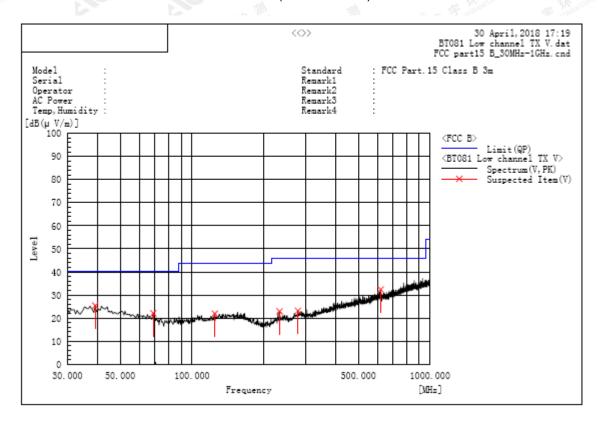
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∀/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
38.245	Н	6.4	17.2	23.6	40.0	16.4	Pass	100.0	95.8
107.115	Н	15.0	14.2	29.2	43.5	14.3	Pass	150.0	350.5
112.450	Н	14.6	14.7	29.3	43.5	14.2	Pass	150.0	3.2
230.790	Н	7.5	15.8	23.3	46.0	22.7	Pass	150.0	332.6
528.095	Н	8.4	23.4	31.8	46.0	14.2	Pass	200.0	301.8
576.110	Н	11.5	24.5	36.0	46.0	10.0	Pass	200.0	66.1

RESULT: PASS

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



A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	39.215	V	8.0	17.4	25.4	40.0	14.6	Pass	100.0	210.8
Г	68.800	V	7.3	14.8	22.1	40.0	17.9	Pass	200.0	210.8
Г	124.575	V	6.1	15.8	21.9	43.5	21.6	Pass	150.0	214.2
	233.215	V	7.0	15.9	22.9	46.0	23.1	Pass	100.0	143.6
	278.320	V	5.5	17.7	23.2	46.0	22.8	Pass	100.0	296.4
	620.245	V	7.1	25.3	32.4	46.0	13.6	Pass	200.0	138.3

RESULT: PASS

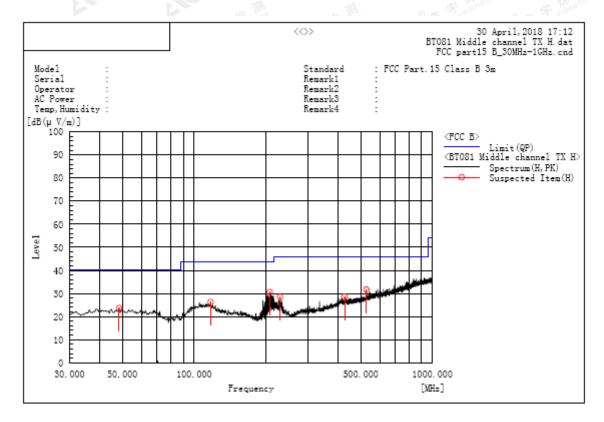
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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



A. Suspected List:

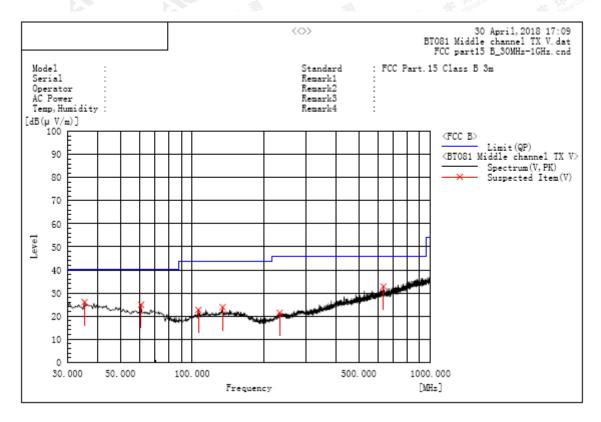
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(u∀/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
48.430	H	6.6	17.1	23.7	40.0	16.3	Pass	200.0	70.7
117.300	Н	11.1	15.2	26.3	43.5	17.2	Pass	150.0	282.3
207.510	H	16.9	13.7	30.6	43.5	12.9	Pass	150.0	253.8
229.335	Н	12.9	15.6	28.5	46.0	17.5	Pass	100.0	308.7
427.700	Н	7.0	21.6	28.6	46.0	17.4	Pass	100.0	167.5
527.610	Н	8.3	23.4	31.7	46.0	14.3	Pass	150.0	187.8

RESULT: PASS

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



A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
35.335	V	9.8	16.3	26.1	40.0	13.9	Pass	200.0	322.1
61.040	V	8.8	16.1	24.9	40.0	15.1	Pass	100.0	125.6
106.145	V	8.6	14.1	22.7	43.5	20.8	Pass	100.0	73.8
134.275	V	7.4	16.5	23.9	43.5	19.6	Pass	150.0	119.2
232.730	V	5.5	15.9	21.4	46.0	24.6	Pass	200.0	322.1
634.310	v	7.5	25.4	32.9	46.0	13.1	Pass	100.0	273.6

RESULT: PASS

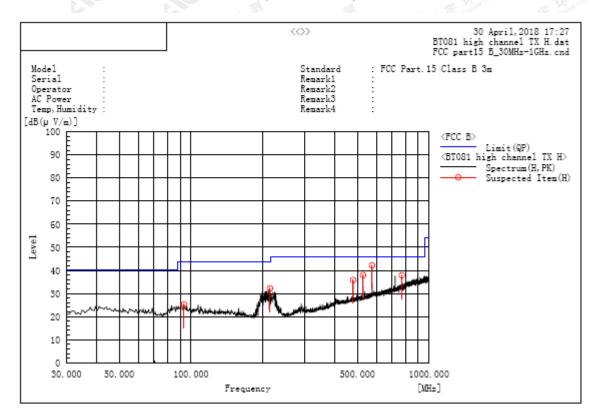
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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



A. Suspected List:

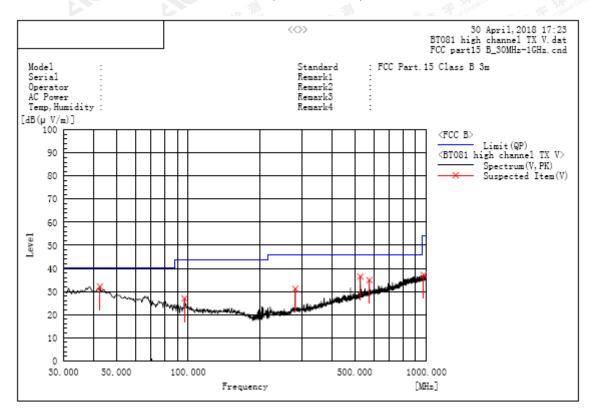
Frequency MHz	Polarization	Polarization Reading dB (1/m)		Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
93.535	Н	12.8	12.5	25.3	43.5	18.2	Pass	200.0	124.9
214.785	Н	18.0	14.2	32.2	43.5	11.3	Pass	100.0	272.6
480.080	Н	13.2	22.6	35.8	46.0	10.2	Pass	200.0	284.8
528.095	Н	14.5	23.4	37.9	46.0	8.1	Pass	150.0	93.8
576.110	Н	17.7	24.5	42.2	46.0	3.8	Pass	150.0	98.2
768.170	Н	9.8	28.0	37.8	46.0	8.2	Pass	100.0	1.0

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(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
42.610	V	14.7	17.4	32.1	40.0	7.9	Pass	100.0	280.0
96.445	V	14.1	12.9	27.0	43.5	16.5	Pass	200.0	45.5
281.715	v	13.5	17.7	31.2	46.0	14.8	Pass	150.0	2.7
528.095	V	13.1	23.4	36.5	46.0	9.5	Pass	150.0	206.5
576.110	V	10.4	24.5	34.9	46.0	11.1	Pass	150.0	202.2
972.840	V	6.2	30.9	37.1	54.0	16.9	Pass	200.0	233.6

RESULT: PASS

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

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

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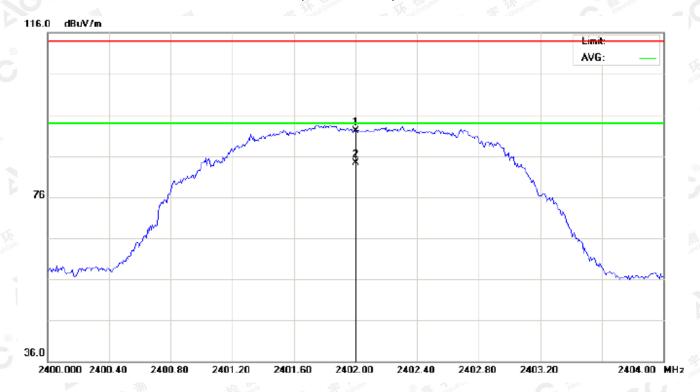
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RADIATED EMISSION ABOVE 1GHz FOR BR/EDR

(Worst modulation: π /4-DQPSK)

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	81.69	10.32	92.01	114.00	-21.99	peak			
2	*	2402.000	73.94	10.32	84.26	94.00	-9.74	AVG	100	246	

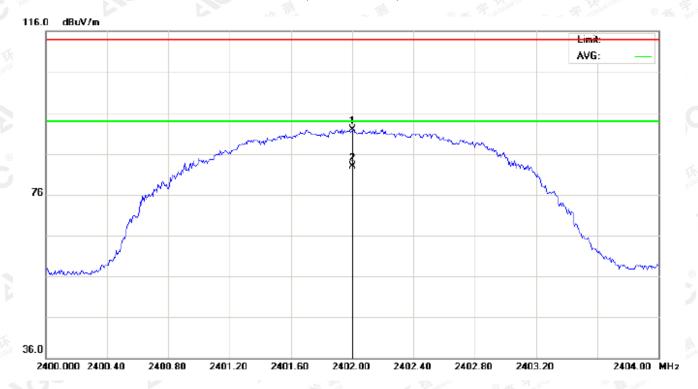
RESULT: PASS

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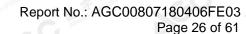
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



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	81.49	10.32	91.81	114.00	-22.19	peak			
2	*	2402.000	72.60	10.32	82.92	94.00	-11.08	AVG	100	215	

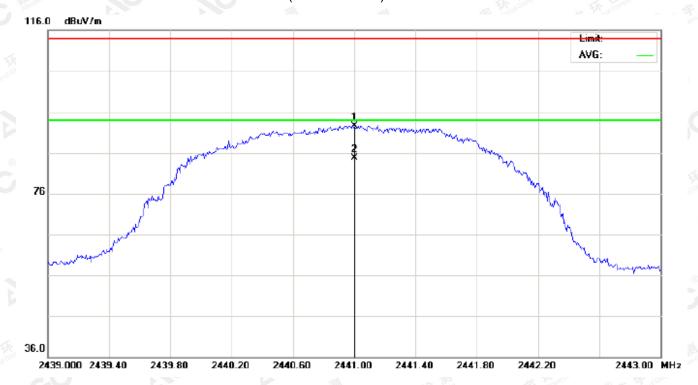
RESULT: PASS

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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	82.11	10.36	92.47	114.00	-21.53	peak			
2	*	2441.000	74.32	10.36	84.68	94.00	-9.32	AVG	100	236	

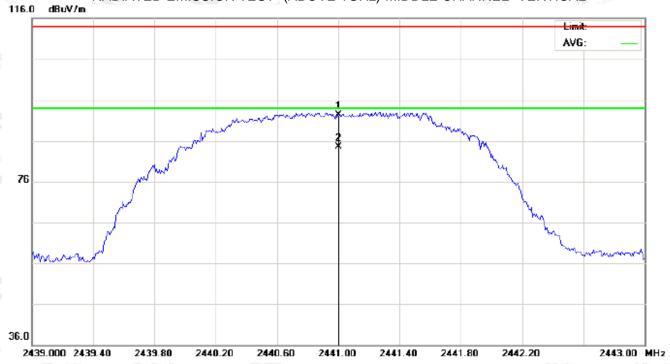
RESULT: PASS

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2441.000	81.89	10.36	92.25	114.00	-21.75	peak			
2	*	2441.000	74.11	10.36	84.47	94.00	-9.53	AVG	100	121	

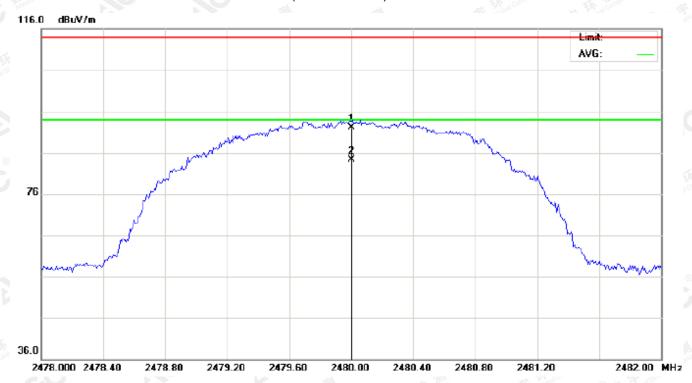
RESULT: PASS

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2480.000	81.62	10.41	92.03	114.00	-21.97	peak			
2	*	2480.000	73.93	10.41	84.34	94.00	-9.66	AVG	100	358	

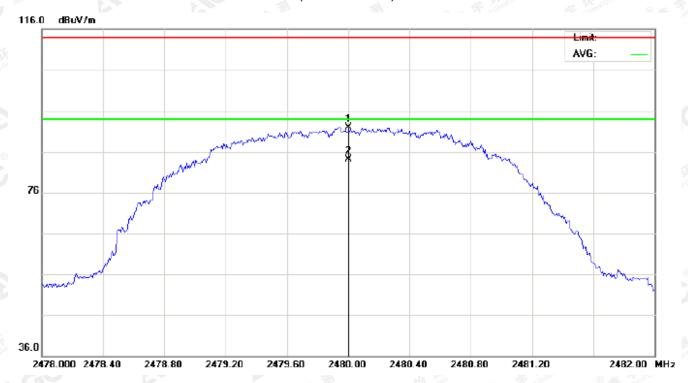
RESULT: PASS

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



No). N	Иk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
			MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	Τ		2480.000	81.43	10.41	91.84	114.00	-22.16	peak			
2		*	2480.000	73.76	10.41	84.17	94.00	-9.83	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

2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	81.69	10.32	92.01	114	-21.99	Horizontal
2402	81.49	10.32	91.81	114	-22.19	Vertical
2441	82.11	10.36	92.47	114	-21.53	Horizontal
2441	81.89	10.36	92.25	114	-21.75	Vertical
2480	81.62	10.41	92.03	114	-21.97	Horizontal
2480	81.43	10.41	91.84	114	-22.16	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.94	10.32	84.26	94	-9.74	Horizontal
2402	72.60	10.32	82.92	94	-11.08	Vertical
2441	74.32	10.36	84.68	94	-9.32	Horizontal
2441	74.11	10.36	84.47	94	-9.53	Vertical
2480	73.93	10.41	84.34	94	-9.66	Horizontal
2480	73.76	10.41	84.17	94	-9.83	Vertical

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1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	81.22	10.32	91.54	114	-22.46	Horizontal
2402	81.07	10.32	91.39	114	-22.61	Vertical
2441	81.68	10.36	92.04	114	-21.96	Horizontal
2441	81.53	10.36	91.89	114	-22.11	Vertical
2480	81.13	10.41	91.59	114	-22.46	Horizontal
2480	81.05	10.41	91.43	114	-22.54	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.50	10.32	83.82	94	-10.18	Horizontal
2402	72.16	10.32	82.48	94	-11.52	Vertical
2441	73.95	10.36	84.31	94	-9.69	Horizontal
2441	73.73	10.36	84.09	94	-9.91	Vertical
2480	73.43	10.41	83.84	94	-10.16	Horizontal
2480	73.37	10.41	83.78	94	-10.22	Vertical

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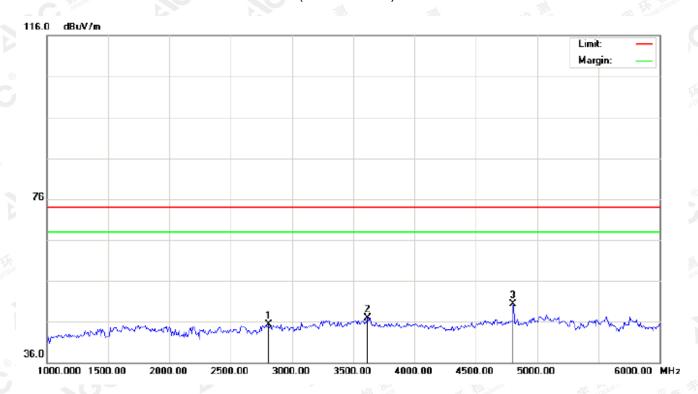
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FOR BR/EDR

(Worst modulation: π /4-DQPSK)

For Harmonics

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



N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
	1		2808.333	34.10	11.18	45.28	74.00	-28.72	peak			
[2		3616.667	34.05	12.83	46.88	74.00	-27.12	peak			
	3	*	4802.000	42.72	7.68	50.40	74.00	-23.60	peak			

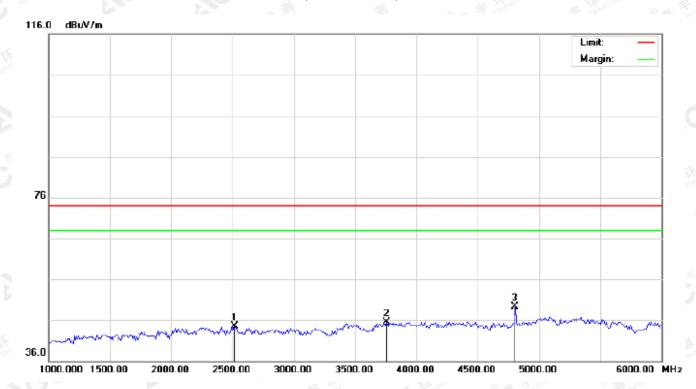
RESULT: PASS

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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
4	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2516.667	34.06	10.47	44.53	74.00	-29.47	peak			
2		3758.333	31.71	13.70	45.41	74.00	-28.59	peak			
3	*	4802.000	41.56	7.68	49.24	74.00	-24.76	peak			

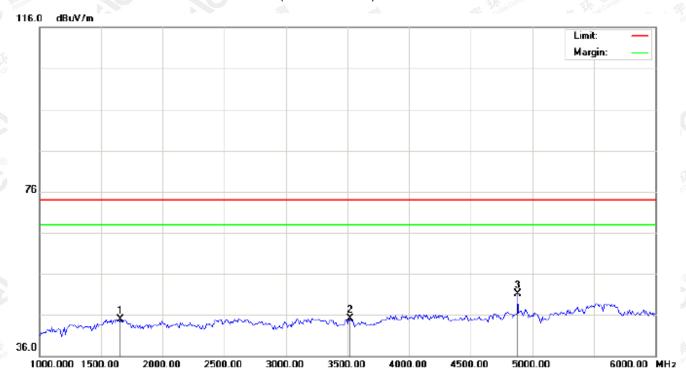
RESULT: PASS

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



N	lo.	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		1658.333	38.60	6.29	44.89	74.00	-29.11	peak			
	2		3525.000	32.86	12.26	45.12	74.00	-28.88	peak			
	3	*	4882.000	43.16	7.89	51.05	74.00	-22.95	peak			

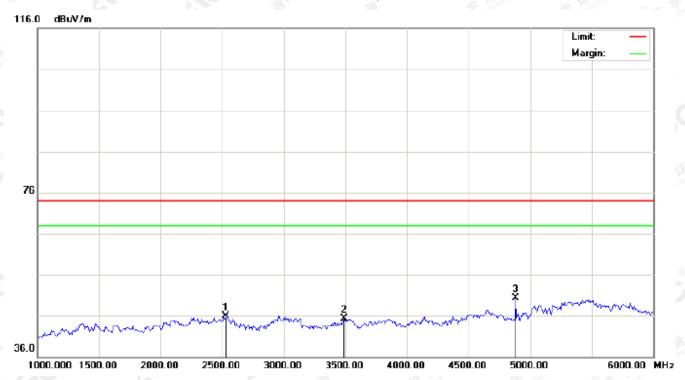
RESULT: PASS

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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
4	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2533.333	35.33	10.51	45.84	74.00	-28.16	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			

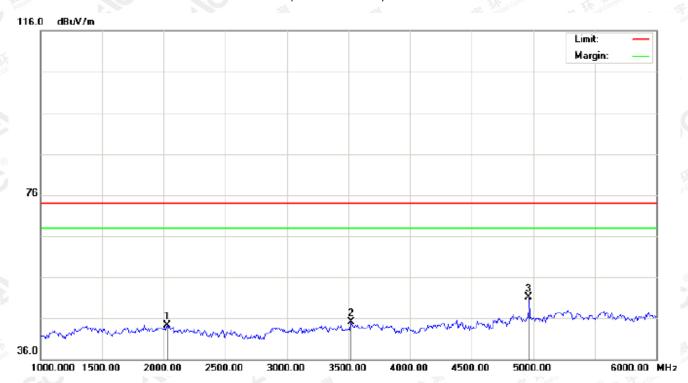
RESULT: PASS

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2033.333	34.34	9.92	44.26	74.00	-29.74	peak			
2		3525.000	32.79	12.26	45.05	74.00	-28.95	peak			
3	*	4960.000	43.10	8.09	51.19	74.00	-22.81	peak			

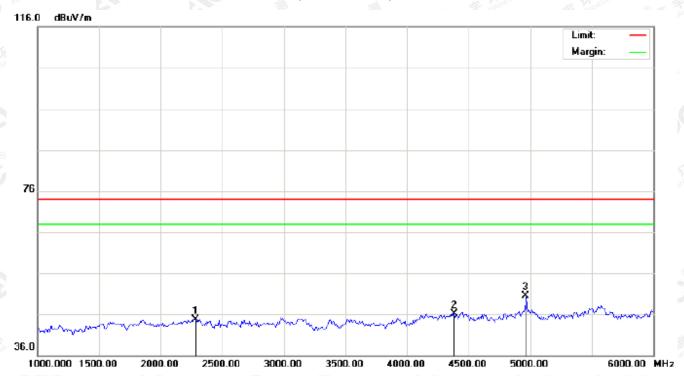
DECILIT: DACC

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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
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2283.333	34.55	10.19	44.74	74.00	-29.26	peak			
2		4383.333	37.25	8.83	46.08	74.00	-27.92	peak			
3	*	4960.000	42.41	8.09	50.50	74.00	-23.50	peak			

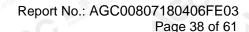
RESULT: PASS

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

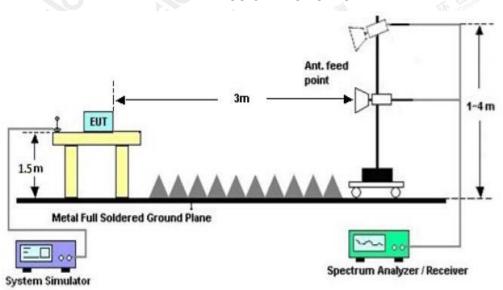
10.1. MEASUREMENT PROCEDURE

- 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(MHz)	Stop frequency(MHz)				
2200	2405				
2478	2500				

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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10.3 RADIATED TEST RESULT

FOR BR/EDR

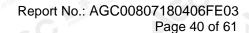
(Worst modulation: π /4-DQPSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



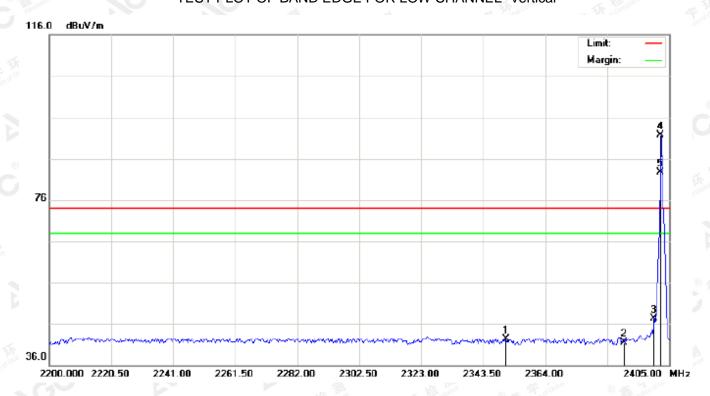
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2373.225	32.17	10.29	42.46	74.00	-31.54	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	81.57	10.32	91.89	74.00	17.89	peak			
5	Х	2402.000	73.80	10.32	84.12	74.00	10.12	AVG	100	247	

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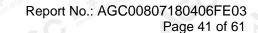


TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



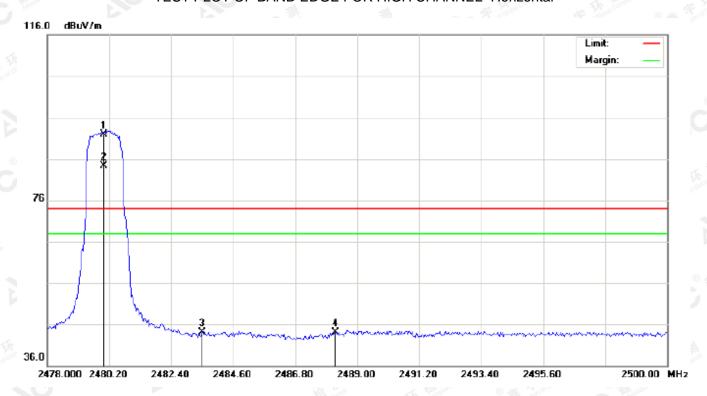
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2351.017	32.09	10.27	42.36	74.00	-31.64	peak			
2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
3		2400.000	37.06	10.32	47.38	74.00	-26.62	peak			
4	*	2402.000	81.37	10.32	91.69	74.00	17.69	peak			
5	Х	2402.000	72.46	10.32	82.78	74.00	8.78	AVG	100	157	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



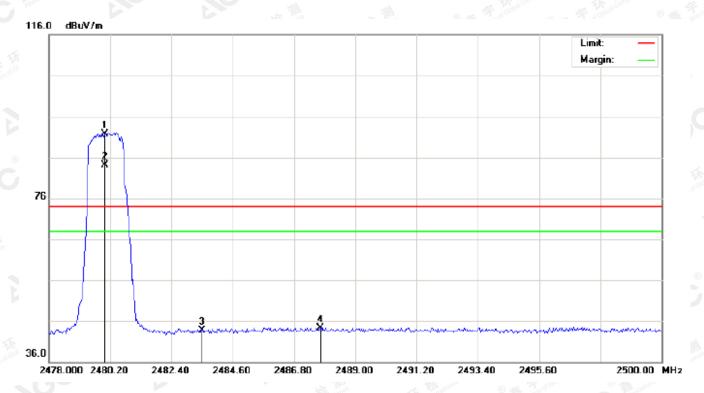
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
4	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	81.51	10.41	91.92	74.00	17.92	peak			
2	Х	2480.000	73.80	10.41	84.21	74.00	10.21	AVG	100	261	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2488.230	33.66	10.42	44.08	74.00	-29.92	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



No	М.	lk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	. [MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	k	2480.000	81.32	10.41	91.73	74.00	17.73	peak			
2	Χ	<	2480.000	73.61	10.41	84.02	74.00	10.02	AVG	100	134	
3			2483.500	33.26	10.41	43.67	74.00	-30.33	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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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)	Nesuit					
Solar Complete G State abort of Cal	Low Channel	0.909	1.079	PASS					
N/A	Middle Channel	0.909	1.071	PASS					
700	High Channel	0.909	1.063	PASS					

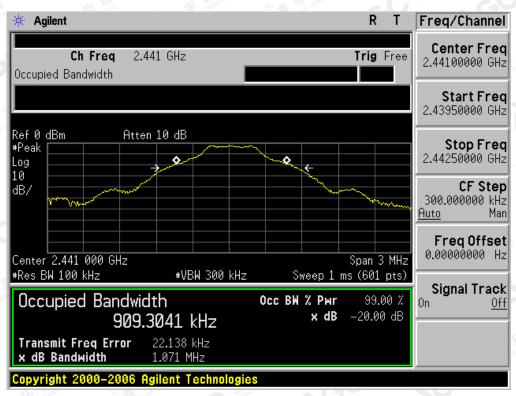
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



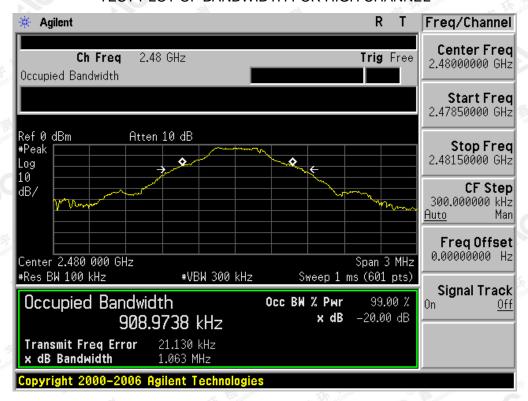
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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DILIET	OTH OMPDOLIS	AITO AND MEACH	DEMENT DECLUIT					
BLUET	OTH ZWIBPS LIN	MITS AND MEASU	REMENI RESULI					
	Measurement Result							
Applicable Limits		Result						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
TO THE	Low Channel	1.206	1.381	PASS				
N/A	Middle Channel	1.215	1.378	PASS				
NGC *	High Channel	1.207	1.373	PASS				

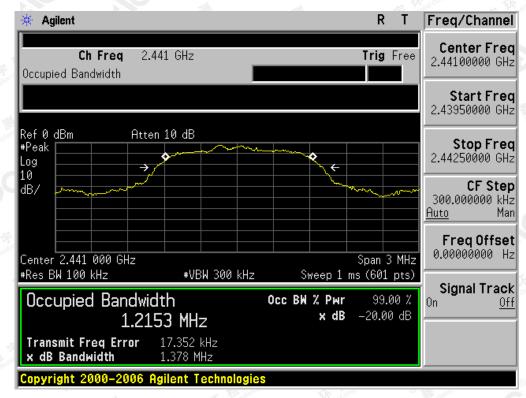
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



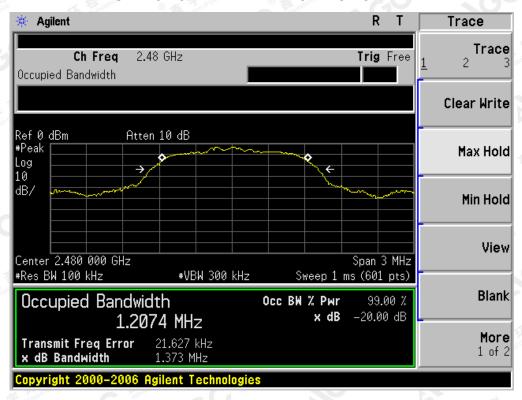
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

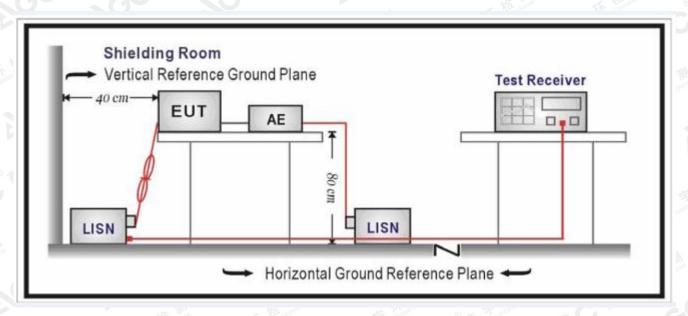
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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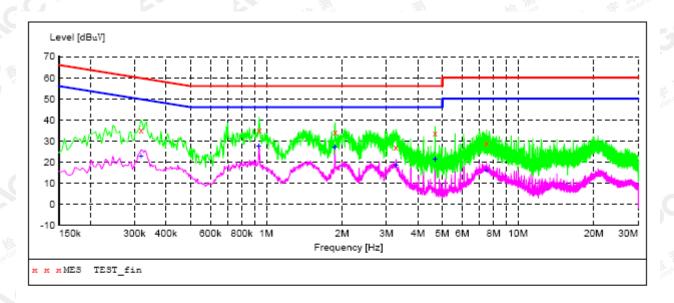


12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST fin"

2018/5/4 Freque:		Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.318	000	35.20	10.1	60	24.6	QP	L1	FLO
0.938	000	35.30	10.2	56	20.7	QP	L1	FLO
1.878	000	34.30	10.2	56	21.7	QP	L1	FLO
3.270	000	27.00	10.0	56	29.0	QP	L1	FLO
4.678	000	33.70	10.3	56	22.3	QP	L1	FLO
7.494	000	28.70	10.2	60	31.3	QP	L1	FLO

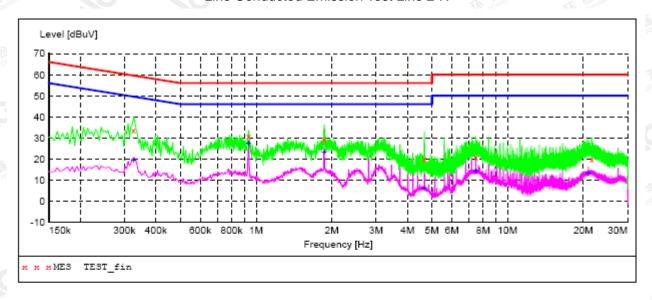
MEASUREMENT RESULT: "TEST fin2"

2018/5/4 Freque			Limit dBuV	Margin dB	Detector	Line	PE
0.318	000 22.70	10.1	50	27.1	AV	L1	FLO
0.934	000 27.40	10.2	46	18.6	AV	L1	FLO
1.874	000 26.80	10.2	46	19.2	AV	L1	FLO
3.274	000 18.60	10.0	46	27.4	AV	L1	FLO
4.682	000 21.10	10.3	46	24.9	AV	L1	FLO
7.498	000 16.30	10.2	50	33.7	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST_fin"

2018/5/4 15:03 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.326000	33.80	10.1	60	25.8	QP	N	FLO
0.934000	31.00	10.2	56	25.0	QP	N	FLO
1.866000	29.20	10.2	56	26.8	QP	N	FLO
4.666000	20.10	10.3	56	35.9	QP	N	FLO

10.2

60

60

40.0

QP

MEASUREMENT RESULT: "TEST fin2"

20.90

20.00

7.466000

21.590000

2018/5/4 15:03 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.326000	19.30	10.1	50	30.3	AV	N	FLO
0.934000	27.70	10.2	46	18.3	AV	N	FLO
1.866000	23.10	10.2	46	22.9	AV	N	FLO
4.658000	6.10	10.3	46	39.9	AV	N	FLO
7.466000	14.40	10.2	50	35.6	AV	N	FLO
20.926000	13.20	11.1	50	36.8	AV	N	FLO

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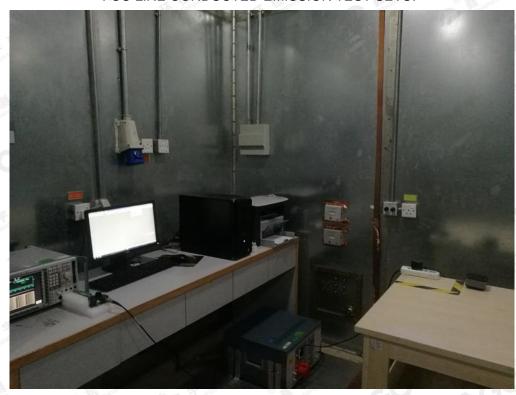
FLO

FLO



APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



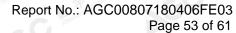
FCC RADIATED EMISSION TEST SETUP



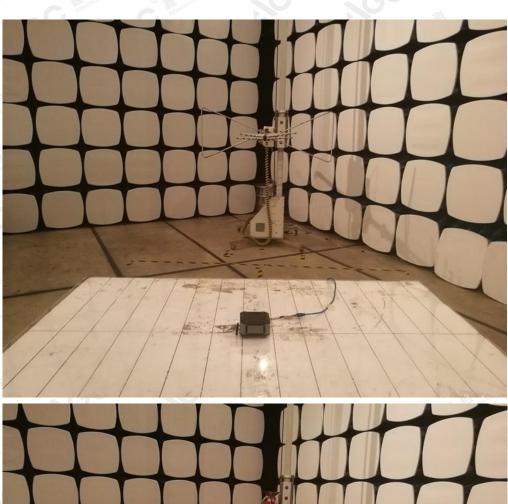
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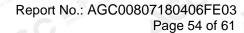








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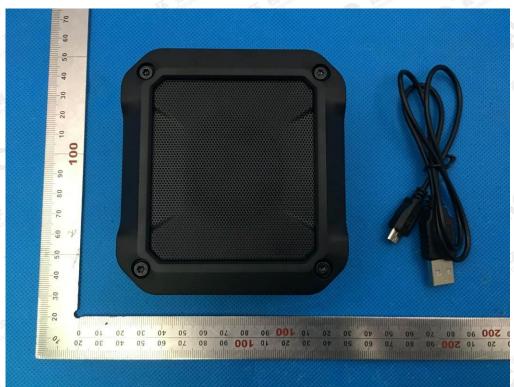


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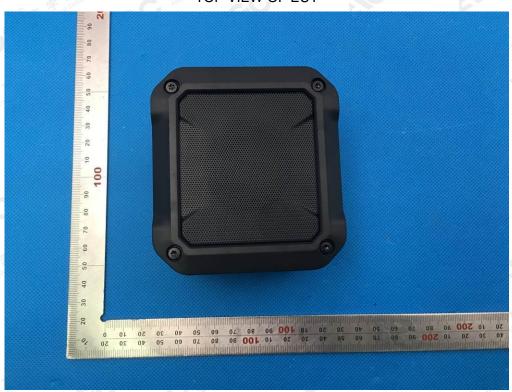


APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



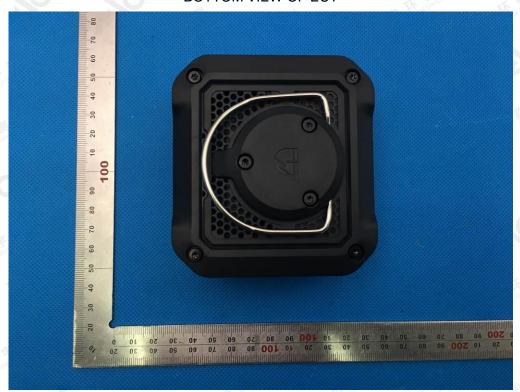
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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



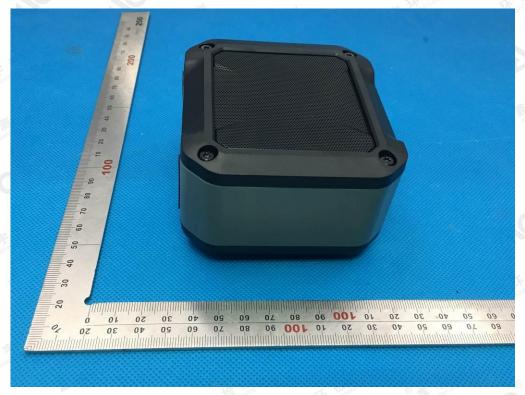
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RIGHT VIEW OF EUT



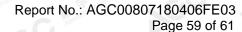
VIEW OF EUT (Port)



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OPEN VIEW OF EUT



VIEW OF BATTERY



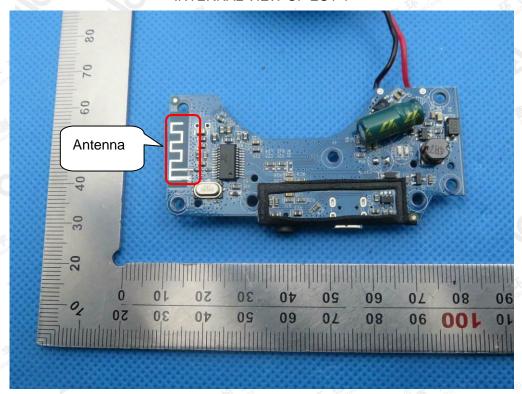
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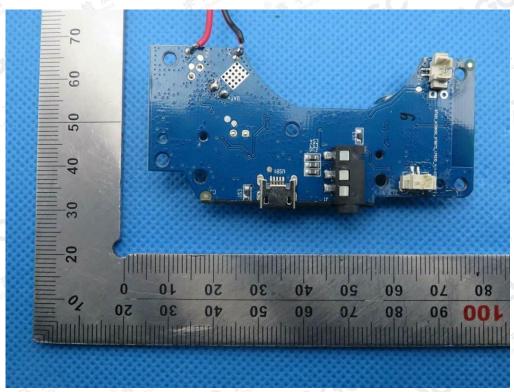
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



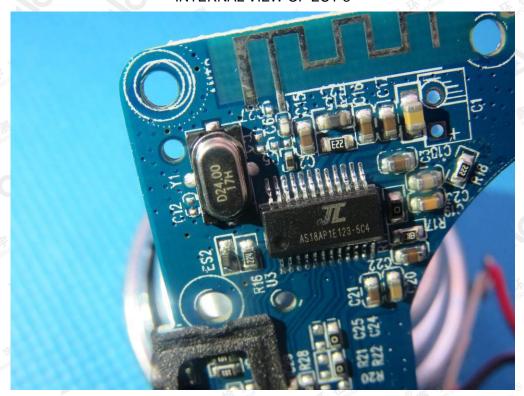
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INTERNAL VIEW OF EUT-3



VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

----END OF REPORT----

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