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FCC Test Report

Report No.: AGC01559180301FE03

FCC ID	: 2AANZHY-1511
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Alloy PRO Wireless Earphones
BRAND NAME	: N/A
MODEL NAME	: HY-1511-ASST
CLIENT	: DGL Group LTD.
DATE OF ISSUE	: Mar. 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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Report Version Revise Time		Issued Date Valid Version		Notes	
V1.0		Mar. 14, 2018	Valid	Initial release	

Report Revise Record

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1. VERIFICATION OF CONFORMITY

Applicant	DGL Group LTD.
Address	195 Raritan Center Parkway Edison, New Jersey United States 08837
Manufacturer	DGL Group LTD.
Address	195 Raritan Center Parkway Edison, New Jersey United States 08837
Product Designation	Alloy PRO Wireless Earphones
Brand Name	N/A State of the s
Test Model	HY-1511-ASST
Date of test	Mar. 02, 2018 to Mar. 12, 2018
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By

Jonhan Wand

Jonhen Wang(Wang Yonghuan) Mar. 12, 2018

Reviewed By

Forvestoi

Forrest Lei(Lei Yonggang)

Mar. 14, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

2.402 GHz to 2.480GHz
-0.45dBm(Max EIRP Power=Max radiation field-95.2)
V4.2
BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
79
V4.0
V4.0
PCB Antenna
OdBi
DC 3.7V by battery

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHz	0	2402MHz
The Barrows	Hardenand 0 Handenal 0 4	2403MHz
	Maria Com	
	38	2440 MHz
	39	2441 MHz
	40	2442 MHz
	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 = ±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
The accommence	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
5	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
G 7	Low channel 8DPSK
8	Middle channel 8DPSK
The second 9 @ The second second	High channel 8DPSK
10	BT Link with charging
11	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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		Software Setting	0 5 To 100 0 5 To 100 0 5
💑 AppoTech RF Control Kit V4.	2.17		×
IC Model CW6691x -		Specification – FIX RX mode	(1)check FIX_PX_24xx (2)check Frequency to set Frequency number
- COM Port Info Port: COM3 Rate: 921600	<u>S</u> end	FIX TX mode	(1)uncheck FIX_RX_24xx (2)check Frequency to set Frequency number (3)check power to set TX signal amplitude (4)Modulation Enable OFF
-RF Trim	OK Hopping: OFF	TX Modulation mode	(1)uncheck FIX_RX_24xx (2)check Frequency to set Frequency number (3)check power to set TX signal amplitude (4)Modulation Enable ON (5)select Packet Type
	Nodulation: ON	Hopping mode	(1)uncheck FIX_RX_24xx (2)uncheck Frequency to enable Hopping ON and TX Modulation OFF (3)check power
Test scenario 3 Transmitter test 101	0 pattern	<u></u> 语言	(4)select Packet Type

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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

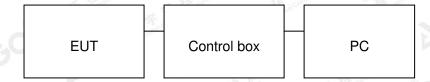
Configure 1: (Normal hopping)



PC or Adapter

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

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Equipment Mfr/Brand		Remark	
Ŷ	Alloy PRO Wireless Earphones	DGL	HY-1511-ASST	EUT	
2	Battery	Jin Yu Zhou	371029	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	0.3m unshielded	Accessory	

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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 -	Mar. 01, 2018	Feb. 28, 2020	

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9. RADIATED EMISSION

9.1. TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50 6 6	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency	Distance	Field Strengths Limit						
(MHz)	Meters	μ V/m	dB(µV)/m					
0.009 ~ 0.490	300	2400/F(kHz)						
0.490 ~ 1.705	30	24000/F(kHz)						
1.705 ~ 30	30	30 6 8 9	E and a contract Cont					
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	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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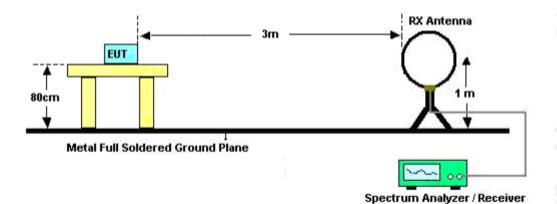


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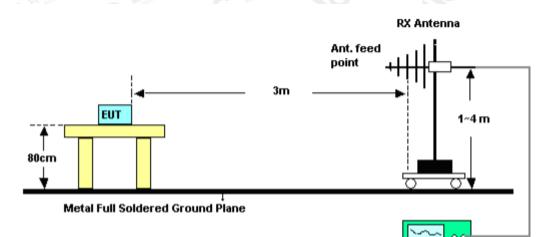
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9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



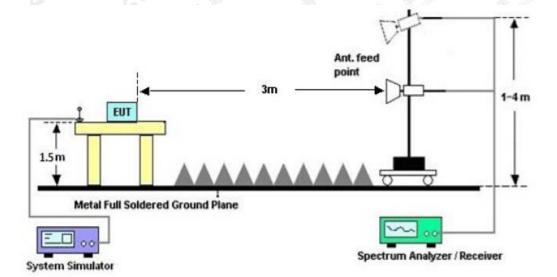
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Spectrum Analyzer / Receiver



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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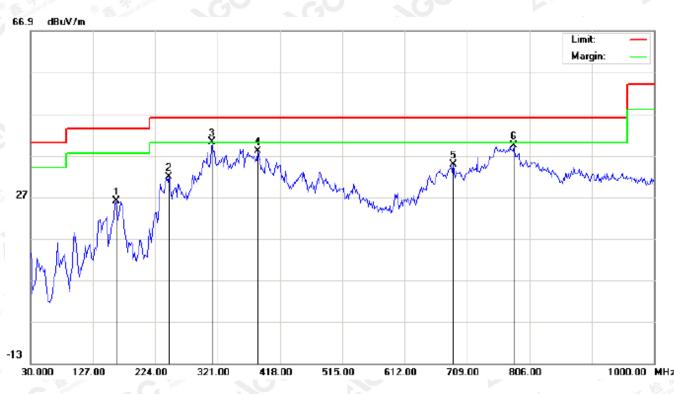
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9.4. TEST RESULT (Worst modulation: GFSK) FOR BR/EDR

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



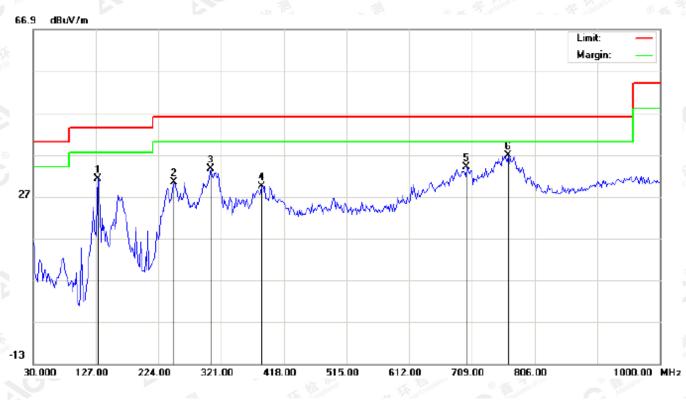
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		164.1833	15.62	10.48	26.10	43.50	-17.40	peak			
2		245.0167	24.43	7.41	31.84	46.00	-14.16	peak			
3	*	312.9167	23.97	16.27	40.24	46.00	-5.76	peak			
4		384.0500	19.07	18.96	38.03	46.00	-7.97	peak			
5		687.9833	9.86	24.89	34.75	46.00	-11.25	peak			
6		781.7500	12.28	27.07	39.35	46.00	-6.65	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
13		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
Slo	1		130.2333	20.09	11.13	31.22	43.50	-12.28	peak			
	2		248.2500	16.74	13.73	30.47	46.00	-15.53	peak			
	3		304.8333	17.86	15.73	33.59	46.00	-12.41	peak			
	4		384.0500	10.47	18.96	29.43	46.00	-16.57	peak			
Ī	5		700.9167	8.73	25.22	33.95	46.00	-12.05	peak			
1	6	*	765.5833	10.02	26.85	36.87	46.00	-9.13	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
3		•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
200	1		170.6500	14.29	10.72	25.01	43.50	-18.49	peak			
	2		235.3167	23.60	8.40	32.00	46.00	-14.00	peak			
	3	*	312.9167	23.45	16.27	39.72	46.00	-6.28	peak			
	4		385.6667	18.98	18.98	37.96	46.00	-8.04	peak			
	5		666.9666	11.00	24.31	35.31	46.00	-10.69	peak			
1	6		755.8833	12.57	26.71	39.28	46.00	-6.72	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
S. UN		•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
5°	1		131.8500	16.78	11.80	28.58	43.50	-14.92	peak			
	2		251.4833	16.59	13.94	30.53	46.00	-15.47	peak			
	3		304.8333	18.63	15.73	34.36	46.00	-11.64	peak			
	4		385.6667	10.78	18.98	29.76	46.00	-16.24	peak			
	5		686.3667	9.30	24.82	34.12	46.00	-11.88	peak			
1	6	*	757.5000	10.04	26.73	36.77	46.00	-9.23	peak			

RESULT: PASS

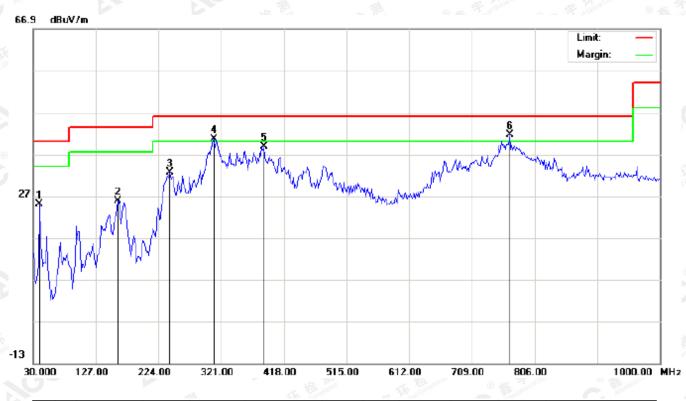
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

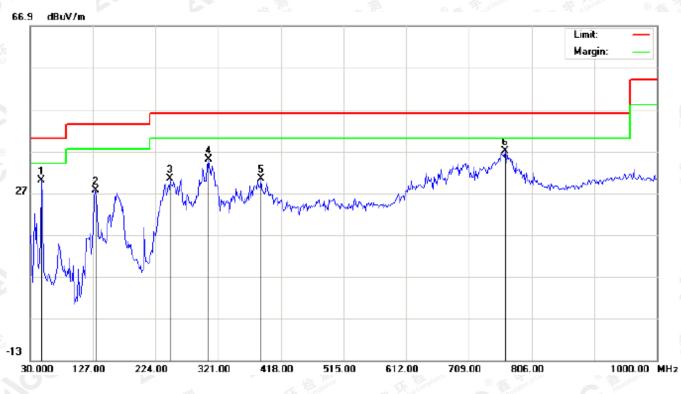
No	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		39.7000	13.56	11.51	25.07	40.00	-14.93	peak			
2		160.9500	15.43	10.37	25.80	43.50	-17.70	peak			
3		241.7833	24.82	7.74	32.56	46.00	-13.44	peak			
4	İ	309.6832	24.60	16.05	40.65	46.00	-5.35	peak			
5		387.2833	19.90	18.99	38.89	46.00	-7.11	peak			
6	*	767.2000	14.76	26.87	41.63	46.00	-4.37	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTIC/				
		D EMICCIÓN TECT		
	RADIALED	D EIMIOSION LEST-		

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBu∀	dB/m	dBu∨/m	dBuV/m	dB		cm	degree	
1		47.7833	21.62	8.39	30.01	40.00	-9.99	peak			
2		131.8500	15.77	11.80	27.57	43.50	-15.93	peak			
3		246.6333	16.82	13.57	30.39	46.00	-15.61	peak			
4		306.4500	19.19	15.84	35.03	46.00	-10.97	peak			
5		387.2833	11.41	18.99	30.40	46.00	-15.60	peak			
6	*	765.5833	10.22	26.85	37.07	46.00	-8.93	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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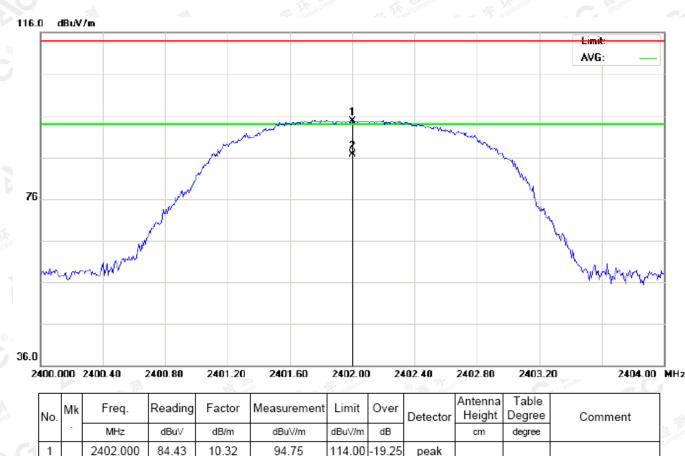


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RADIATED EMISSION ABOVE 1GHz (Worst modulation: GFSK) FOR BR/EDR

For Fundamental

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



94.00

-7.35

AVG

RESULT: PASS

2

2402.000

10.32

76.33

86.65

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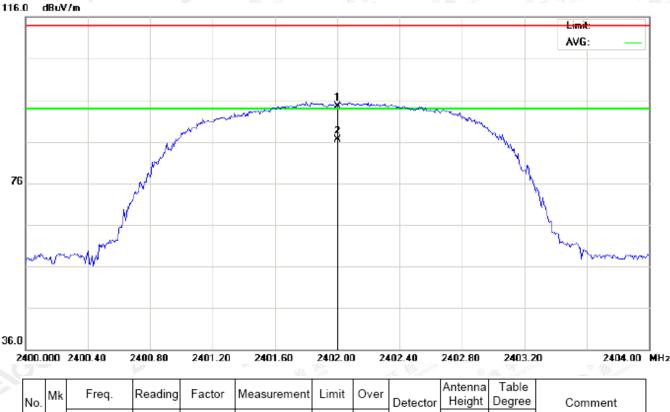


304

100



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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
2		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
ø	1		2402.000	84.09	10.32	94.41	114.00	-19.59	peak			
	2	*	2402.000	76.08	10.32	86.40	94.00	-7.60	AVG	100	157	
						a.			557	0.025		2017 - 112

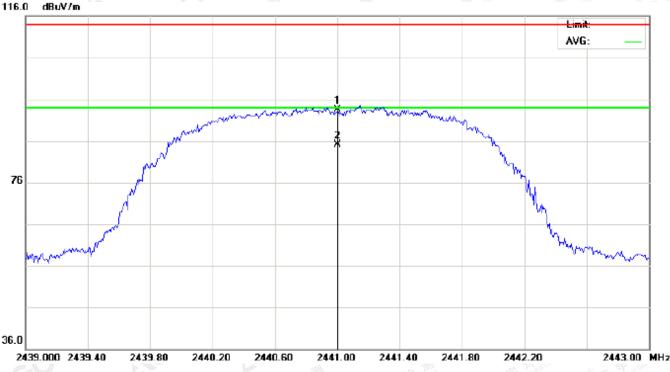
RESULT: PASS

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

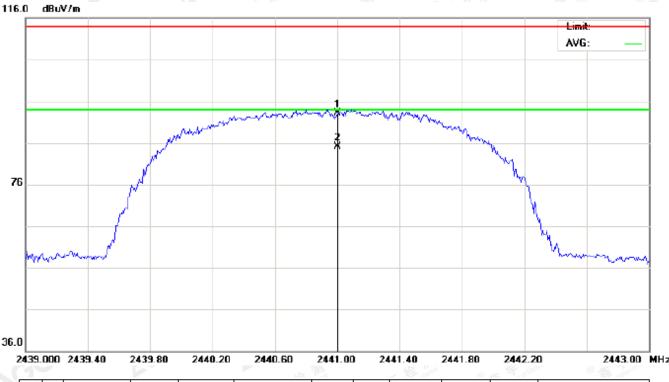
(Shin		MAL LOCO		Se Glo	(B) And and (C)
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
50	1		2441.000	83.14	10.36	93.50	114.00	-20.50	peak			
	2	*	2441.000	74.74	10.36	85.10	94.00	-8.90	AVG	100	341	

RESULT: PASS

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

N	0.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
a.		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
			2441.000	82.84	10.36	93.20	114.00	-20.80	peak			
2	2	*	2441.000	74.66	10.36	85.02	94.00	-8.98	AVG	100	100	

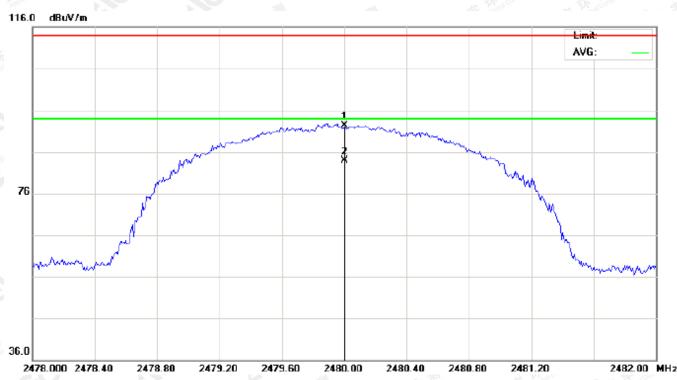
RESULT: PASS

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

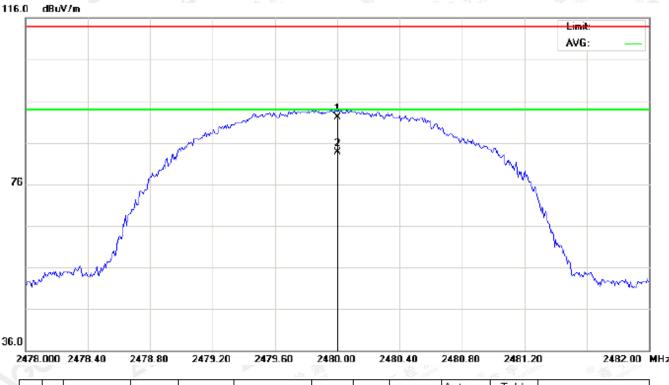
							A Real Ande					
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
50	1		2480.000	81.92	10.41	92.33	114.00	-21.67	peak			
	2	*	2480.000	73.52	10.41	83.93	94.00	-10.07	AVG	100	304	

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
į.	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	81.69	10.41	92.10	114.00	-21.90	peak			
2	*	2480.000	73.20	10.41	83.61	94.00	-10.39	AVG	100	154	

RESULT: PASS

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

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

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Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	84.43	10.32	94.75	114	-19.25	Horizontal	
2402	84.09	10.32	94.41	114	-19.59	Vertical	
2441	83.14	10.36	93.50	114	-20.50	Horizontal	
2441	82.84	10.36	93.20	114	-20.80	Vertical	
2480	81.92	10.41	92.33	114	-21.67	Horizontal	
2480	81.69	10.41	92.10	114	-21.90	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.33	10.32	86.65	94	-7.35	Horizontal
2402	76.08	10.32	86.40	94	-7.60	Vertical
2441	74.74	10.36	85.10	94	-8.90	Horizontal
2441	74.66	10.36	85.02	94	-8.98	Vertical
2480	73.52	10.41	83.93	94	-10.07	Horizontal
2480	73.20	10.41	83.61	94	-10.39	Vertical

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2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	83.89	10.32	94.21	114	-19.79	Horizontal
2402	83.59	10.32	93.91	114	-20.09	Vertical
2441	82.58	10.36	92.94	114	-21.06	Horizontal
2441	82.27	10.36	92.63	114	-21.37	Vertical
2480	81.41	10.41	91.82	114	-22.18	Horizontal
2480	81.15	10.41	91.56	114	-22.44	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	75.78	10.32	86.10	94	-7.90	Horizontal	
2402	75.55	10.32	85.87	94	-8.13	Vertical	
2441	74.20	10.36	84.56	94	-9.44	Horizontal	
2441	73.87	10.36	84.23	94	-9.77	Vertical	
2480	72.99	10.41	83.40	94	-10.60	Horizontal	
2480	72.65	10.41	83.06	94	-10.94	Vertical	

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3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	83.41	10.32	93.73	114	-20.27	Horizontal	
2402	83.11	10.32	93.43	114	-20.57	Vertical	
2441	82.09	10.36	92.45	114	-21.55	Horizontal	
2441	81.85	10.36	92.21	114	-21.79	Vertical	
2480	80.95	10.41	91.36	114	-22.64	Horizontal	
2480	80.65	10.41	91.06	114	-22.94	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	75.31	10.32	85.63	94	-8.37	Horizontal
2402	75.05	10.32	85.37	94	-8.63	Vertical
2441	73.71	10.36	84.07	94	-9.93	Horizontal
2441	73.63	10.36	83.99	94	-10.01	Vertical
2480	72.52	10.41	82.93	94	-11.07	Horizontal
2480	72.21	10.41	82.62	94	-11.38	Vertical

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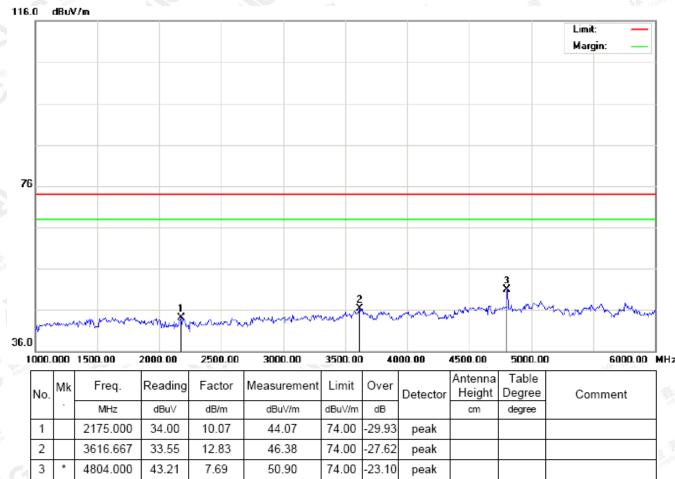
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(Worst modulation: GFSK)

FOR BR/EDR

For Harmonics

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



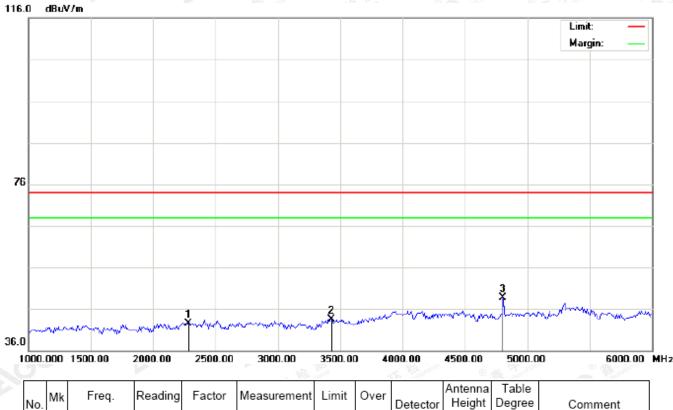
RESULT: PASS

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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
8	•	MHz	dBu∨	dB/m	dBu\//m	dBuV/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			

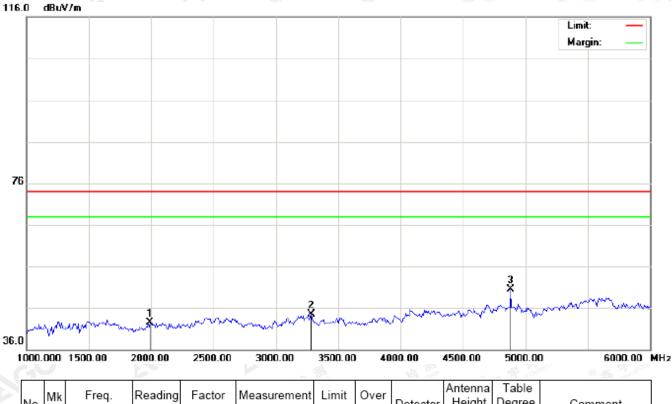
RESULT: PASS

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

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		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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76				2	3	martin	
76							
	76						

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

1000	.000	1500.00	2000.00	2500.00	3000.00	3500.00) 40	00.00	4500.00	5000.00	0 6000.00	MHz
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		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				1
3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak				15%

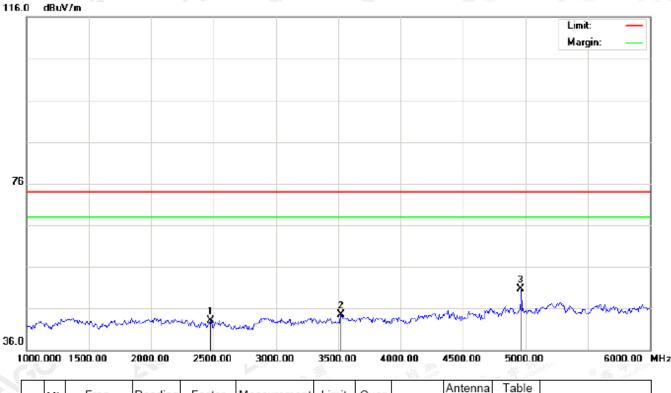
RESULT: PASS

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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	
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
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			

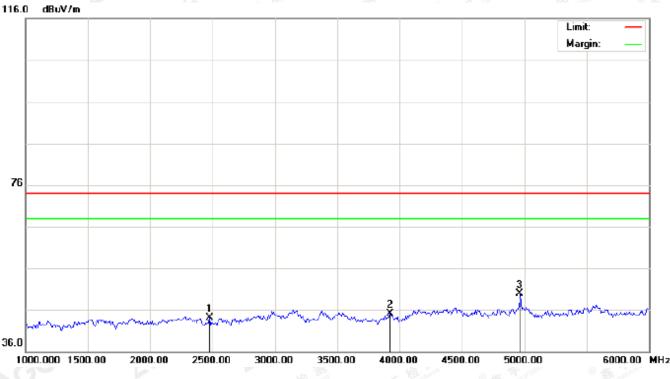
RESULT: PASS

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
8	•	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

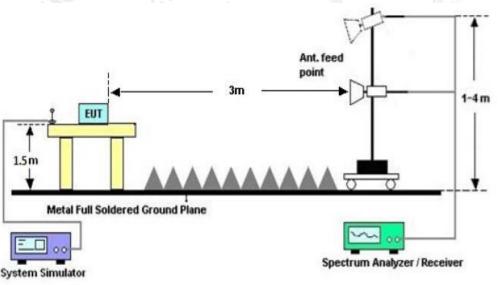
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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.

2200 2405 2478 2500	Start frequency(MHz)			Stop frequency(MHz	z)
2478 2500	2200	The amount	nce C Front	2405	SC -
	2478	C Allestation of Cito	GO	2500	

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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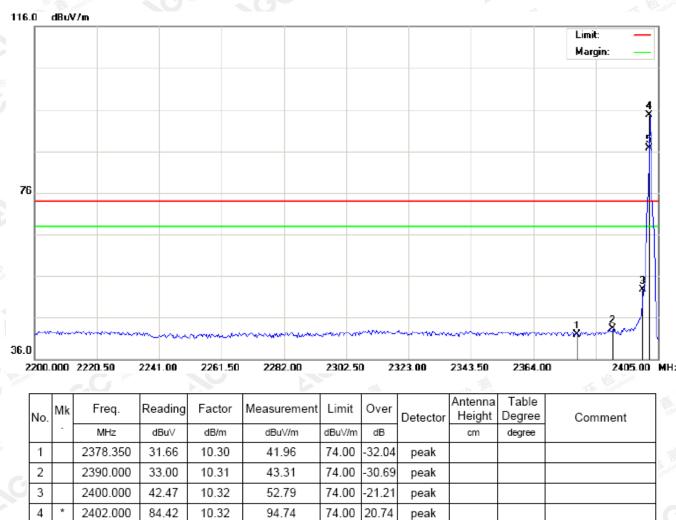


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10.3 RADIATED TEST RESULT (Worst modulation: GFSK) FOR BR/EDR

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



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74.00

12.61

AVG

100

301

86.61



5

х

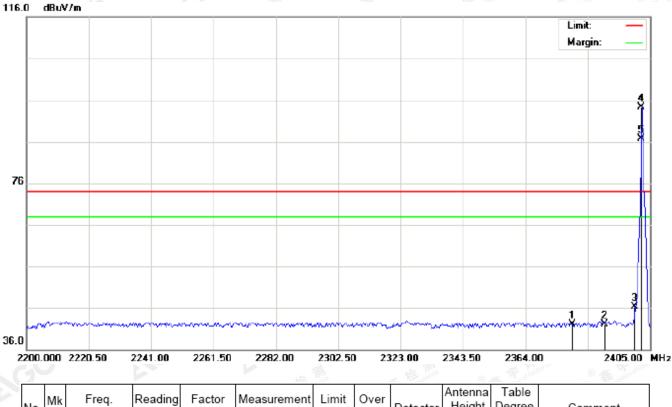
2402.000

76.29

10.32



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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

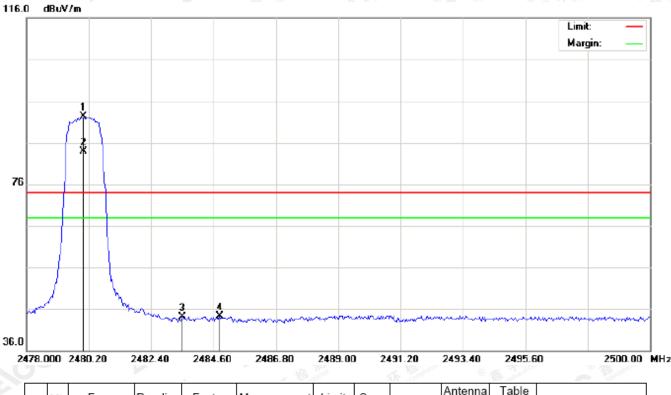
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
à		-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
š	1		2379.375	31.76	10.30	42.06	74.00	-31.94	peak			
	2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
	3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
	4	*	2402.000	84.08	10.32	94.40	74.00	20.40	peak			
	5	Х	2402.000	76.30	10.32	86.62	74.00	12.62	AVG	100	154	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

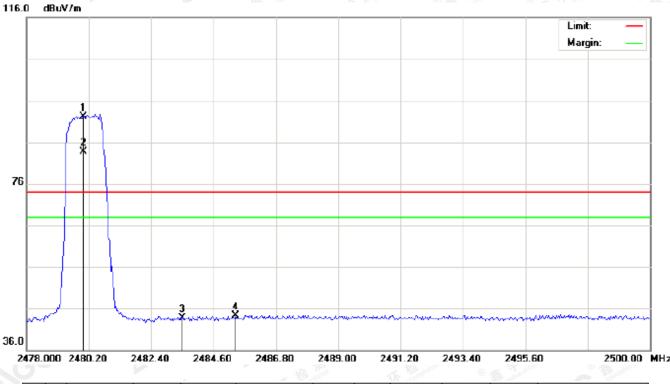
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
15	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree		
stal	1	*	2480.000	81.90	10.41	92.31	74.00	18.31	peak			
	2	Х	2480.000	73.51	10.41	83.92	74.00	9.92	AVG	100	305	
	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
	4		2484.820	33.86	10.41	44.27	74.00	-29.73	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
ġ	•	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1	*	2480.000	81.69	10.41	92.10	74.00	18.10	peak			
2	Х	2480.000	73.24	10.41	83.65	74.00	9.65	AVG	100	133	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2485.370	33.89	10.41	44.30	74.00	-29.70	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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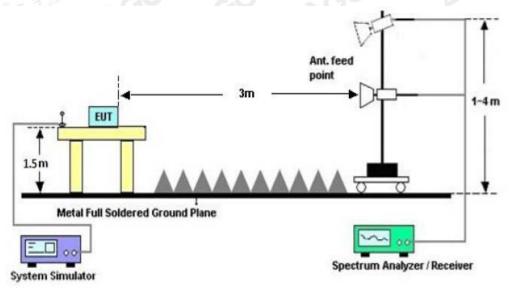
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11. 20DB BANDWIDTH

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	OOTH 1MBPS LIN	MITS AND MEASU	REMENT RESULT						
		Measurement Result							
Applicable Limits		Test Data (MHz)							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
The Const Const of American	Low Channel	0.990	1.120	PASS					
N/A	Middle Channel	0.986	1.120	PASS					
ill ill	High Channel	0.998	1.120	PASS					

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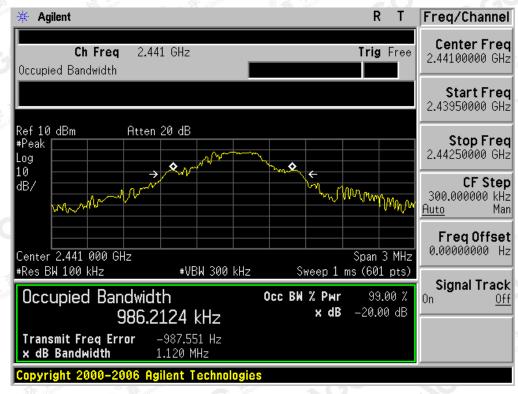


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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BLUET	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT	
		Measure	ement Result	
Applicable Limits		Desult		
		99%OBW (MHz)	-20dB BW(MHz)	Result
The termine the termine	Low Channel	1.193	1.352	PASS
N/A	Middle Channel	1.210	1.328	PASS
SCC .	High Channel	1.197	1.347	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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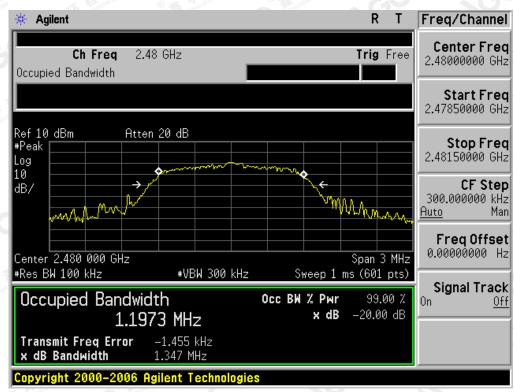






TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUET	OOTH 3MBPS LIN	MITS AND MEASU	REMENT RESULT	
		Measure	ement Result	
Applicable Limits		Decult		
		99%OBW (MHz)	-20dB BW(MHz)	Result
The termine	Low Channel	1.210	1.369	PASS
N/A	Middle Channel	1.210	1.349	PASS
	High Channel	1.193	1.321	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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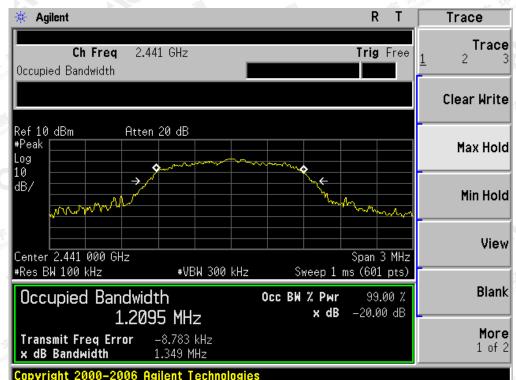
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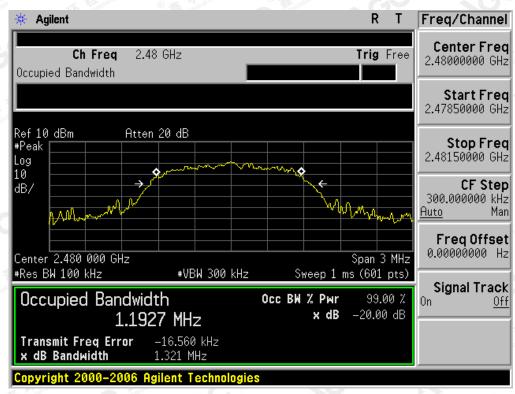
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

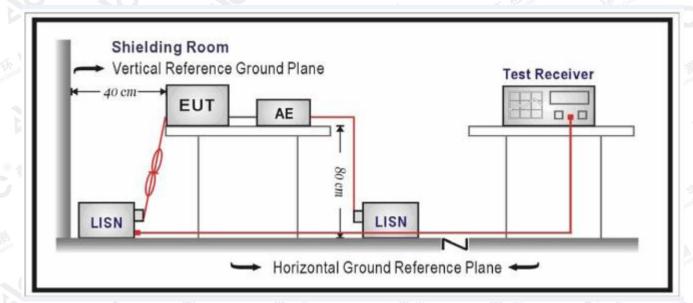
Francisco	Maximum RF	Line Voltage
Frequency	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60 60	50

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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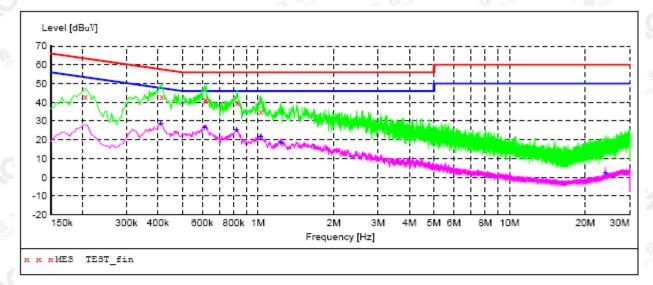
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST fin"

018/3/9 10:43 Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.206000	42.80	11.4	63	20.6	-	L1	FLO
0.414000	43.20	11.4	58	14.4		L1	FLO
0.614000	40.80	11.4	56	15.2		L1	FLO
0.622000	41.30	11.4	56	14.7		L1	FLO
0.826000	39.90	11.3	56	16.1		L1	FLO
1.026000	35.20	11.3	56	20.8		L1	FLO

MEASUREMENT RESULT: "TEST fin2"

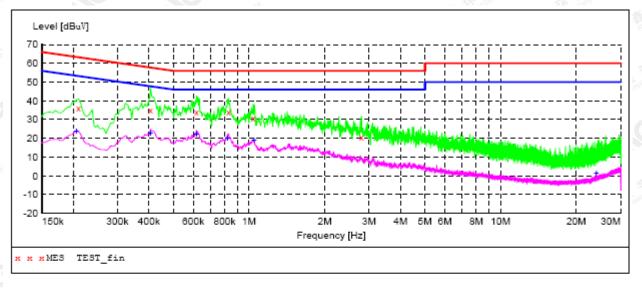
20	018/3/9 10:43 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
	0.410000	28.50	11.4	48	19.1	AV	L1	FLO
	0.614000	26.60	11.4	46	19.4	AV	L1	FLO
	0.822000	25.20	11.3	46	20.8	AV	L1	FLO
	1.026000	21.60	11.3	46	24.4	AV	L1	FLO
	1.234000	18.60	11.3	46	27.4	AV	L1	FLO
	23.986000	2.40	11.0	50	47.6	AV	L1	FLO

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Line Conducted Emission Test Line 2-N

MEASUREMENT RESULT: "TEST fin"

2018/3/9 10:47 ΡE Transd Limit Frequency Level Margin Detector Line MHz dB dBuV dBuV dB 0.210000 35.80 11.4 63 27.4 QP Ν FLO 0.406000 34.70 11.4 23.0 FLO 58 QP Ν 0.618000 34.10 11.4 56 21.9 QP Ν FLO Ν 0.830000 33.80 11.3 56 22.2 QP FLO 1.038000 25.3 QP Ν FLO 30.70 11.3 56 2.798000 Ν 20.30 11.4 56 35.7 QP FLO

MEASUREMENT RESULT: "TEST fin2"

2018/3/9 10:47 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.206000	23.90	11.4	53	29.5	AV	Ν	FLO
0.406000	22.90	11.4	48	24.8	AV	N	FLO
0.618000	22.20	11.4	46	23.8	AV	N	FLO
0.822000	20.20	11.3	46	25.8	AV	N	FLO
1.046000	18.80	11.3	46	27.2	AV	N	FLO
23.982000	1.50	11.0	50	48.5	AV	N	FLO

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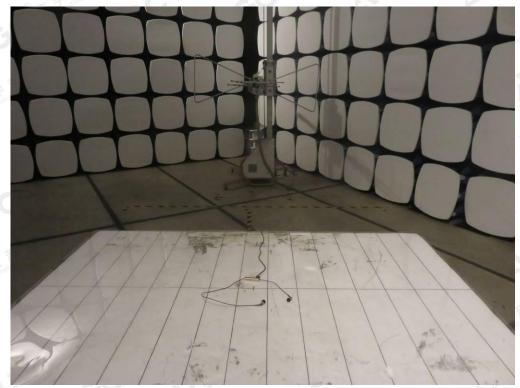


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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP

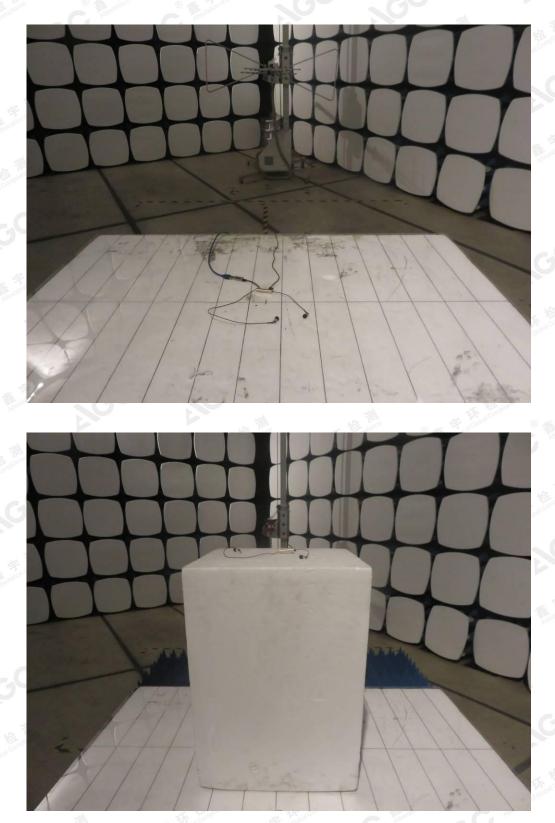


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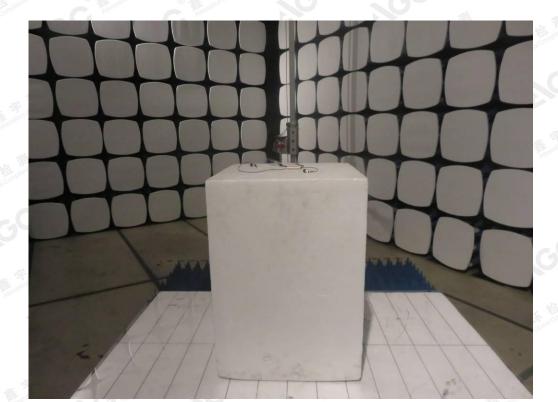


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APPENDIX B: PHOTOGRAPHS OF EUT

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



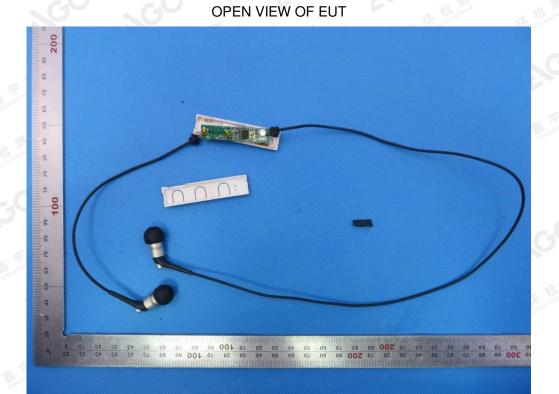
VIEW OF EUT (PORT)

The results showed http://www.ago-gett.com.

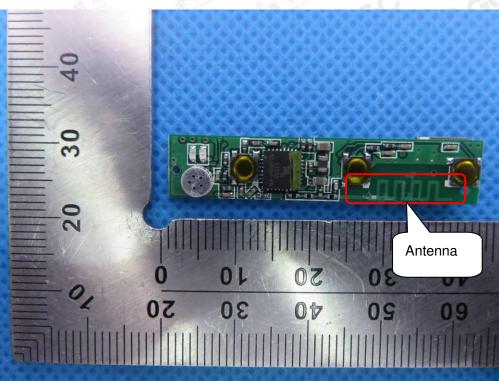
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INTERNAL VIEW OF EUT-1



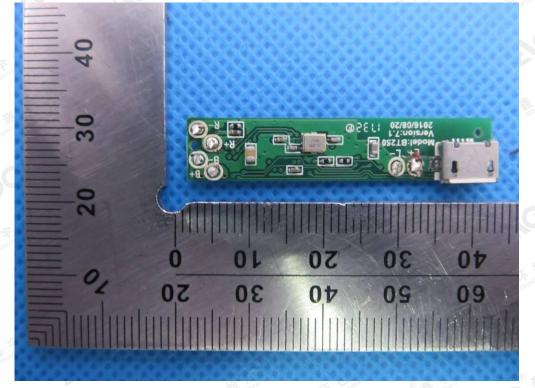
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



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VIEW OF ADAPTER(AE)



The adapter was supplied by AGC All Color Sample



----END OF REPORT----

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