

FCC Test Report

Report No.: AGC00737180705FE03

FCC ID : 2AMH2-BH281A

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Bluetooth Transmitter

BRAND NAME : MPOW

MODEL NAME : See Page 4

: MPOW TECHNOLOGY CO., LIMITED

DATE OF ISSUE : Jul. 19, 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		Jul. 19, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	MPOW TECHNOLOGY CO., LIMITED			
Address	RM 603, 6/F, HANG PONT COMM BLDG 31 TONKIN ST, CHEUNG SHA WAN KL, HK, CHINA			
Manufacturer	MPOW TECHNOLOGY CO., LIMITED			
Address	RM 603, 6/F, HANG PONT COMM BLDG 31 TONKIN ST, CHEUNG SHA WAN KL, HK, CHINA			
Product Designation	Bluetooth Transmitter			
Brand Name	MPOW			
Test Model	BH281A			
Series Model	BH281B, BH281C, BH281D, BH281E, BH281F			
Difference description	All the same except for the model name.			
Date of test	Jul. 06, 2018 to Jul. 11, 2018			
Deviation	None			
Condition of Test Sample	Normal Statement Communication of the statement of the st			
Report Template	AGCRT-US-BR/RF			
7.160 Allen				

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	Jonhen Wang	
Tested by	Jonhen Wang(Wang Yonghuan)	Jul. 11, 2018
	and change	
Reviewed By	Cool Cheng(Cheng Mengguo)	Jul. 19, 2018
Approved By	Fowers on	A Commence of the state of the
	Forrest Lei(Lei Yonggang) Authorized Officer	Jul. 19, 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
Bluetooth Version	V5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V001
Software Version	V1, 100 100 100 100 100 100 100 100 100 1
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
(S) Allegation of Clodes (S) Allegation of Co.	0.0	2402MHz
CO	The Management of the Contract	2403MHz
The All All	The state of the s	CC CC
© Martin of Cubul Cu	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
10000000000000000000000000000000000000	40	2442 MHz
The thinkers & the decidate of the thinkers of	® Management : CC Management	CC DO
CC Marie C	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

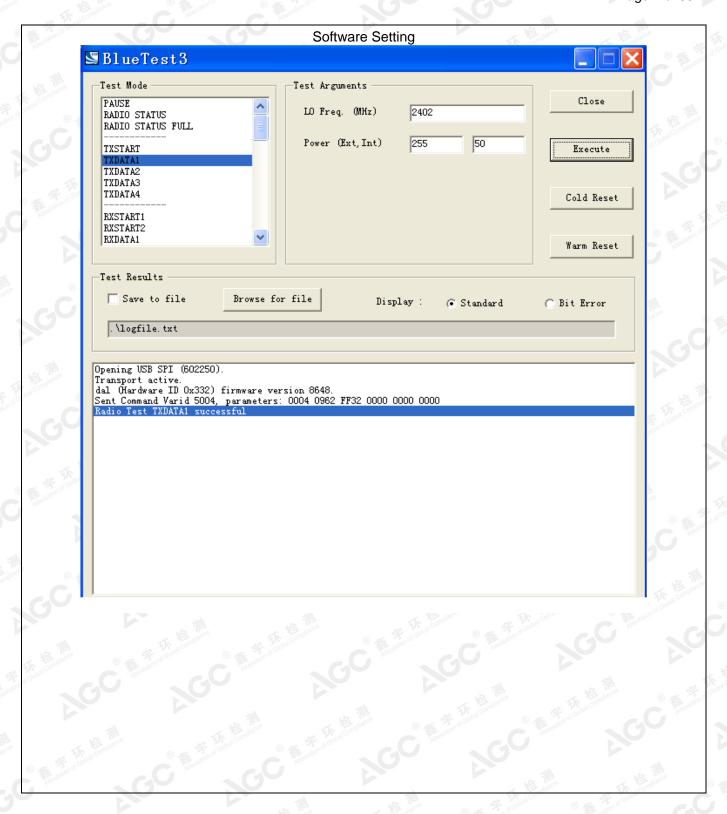
NO.	TEST MODE DESCRIPTION
© ## 1 nd cao	Low channel GFSK
2 60	Middle channel GFSK
3	High channel GFSK
点型 4 不是那	Low channel π /4-DQPSK
© 5 ond cools	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
8 0 M	Middle channel 8DPSK
9	High channel 8DPSK
10	BT Link with charging
11 J. Complaint	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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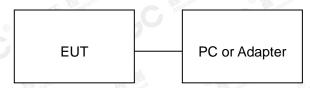


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5. SYSTEM TEST CONFIGURATION

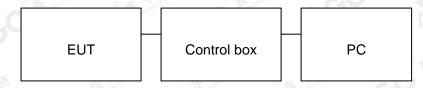
5.1. CONFIGURATION OF EUT SYSTEM

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 ,	Bluetooth Transmitter	MPOW	BH281A	EUT	
2	Battery	C YJ	502030	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	CSR	USB_SPI_TOOLS	A.E	
5	Adapter	IPRO	NTR-S01	A.E	
6	USB Cable 1	N/A	1m unshielded	A.E	
7	AUX in Cable	N/A	1m unshielded	A.E	
8	USB Cable 2	N/A	1m unshielded	A.E	
9	Speaker	Haiyi	A3109	A.E	
10	Mobile Phone	HUAWEI	V9	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, 2018	Jun.19, 2019
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, 2018	Jun.19, 2019
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, 2018	Jun.19, 2019
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	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Filter (2.4-2.483GHz)	Micro-tronics	087	-C	Jun.20, 2018	Jun.19, 2019

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9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

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

Standard FCC 15.209

Frequency	Distance	Field Str	engths Limit
(MHz)	Meters	μ V/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	9
0.490 ~ 1.705	30	24000/F(kHz)	Banana A Banana
1.705 ~ 30	30	30	(i) A closed Company (ii) (ii) A closed Company (iii)
30 ~ 88	3	100	40.0
88 ~ 216	3 - 0	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3 17 18	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.

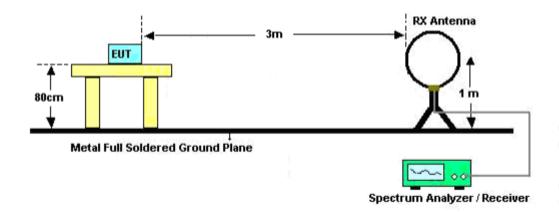
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz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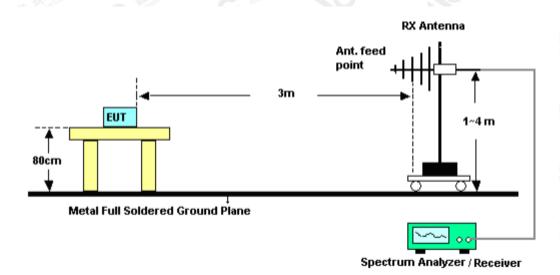


9.3. TEST SETUP

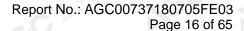
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

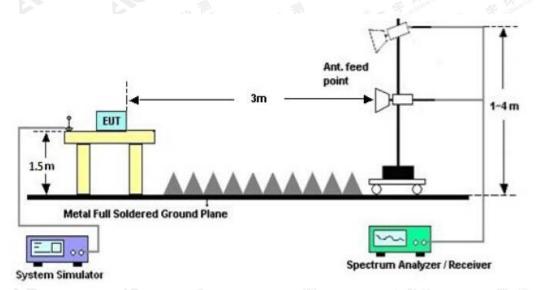


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

FOR BR/EDR

(Worst modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

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

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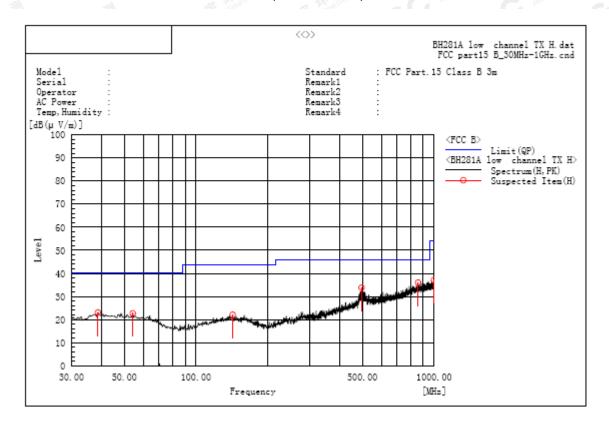
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RADIATED EMISSION BELOW 1GHz

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



A. Suspected List:

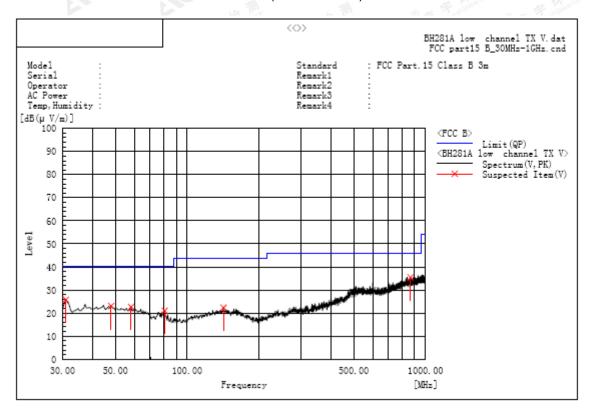
	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(u∀/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	38.730	H	5.7	17.3	23.0	40.0	17.0	Pass	100.0	72.3
	54.250	Н	5.9	16.8	22.7	40.0	17.3	Pass	100.0	256.1
	142.520	Н	5.5	16.6	22.1	43.5	21.4	Pass	100.0	72.3
	496.085	Н	11.0	22.8	33.8	46.0	12.2	Pass	150.0	288.9
	856.925	H	6.3	29.7	36.0	46.0	10.0	Pass	200.0	92.6
ſ	999.030	Н	6.0	31.1	37.1	54.0	16.9	Pass	150.0	5.2

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 Limit Margin dB(uV/m) PK QP dB		Pass/Fail	Height cm	Angle deg	
30.970	V	10.2	15.6	25.8	40.0	14.2	Pass	150.0	70.6
58.130	V	6.3	16.4	22.7	40.0	17.3	Pass	100.0	13.5
47.945	V	5.8	17.2	23.0	40.0	17.0	Pass	100.0	302.4
80.440	V	8.8	12.3	21.1	40.0	18.9	Pass	150.0	70.6
142.035	V	5.7	16.6	22.3	43.5	21.2	Pass	150.0	214.9
864.685	V	5.7	29.8	35.5	46.0	10.5	Pass	100.0	13.5

RESULT: PASS

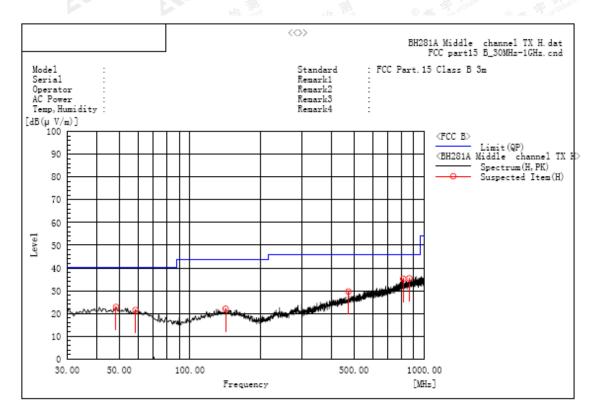
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
48.430	H	5.8	17.1	22.9	40.0	17.1	Pass	150.0	288.9
58.615	Н	5.1	16.4	21.5	40.0	18.5	Pass	150.0	217.3
142.035	H	5.5	16.6	22.1	43.5	21.4	Pass	200.0	288.9
473.775	Н	7.1	22.5	29.6	46.0	16.4	Pass	100.0	94.1
812.305	H	6.2	29.0	35.2	46.0	10.8	Pass	100.0	59.1
862.260	H	5.8	29.7	35.5	46.0	10.5	Pass	150.0	253.9

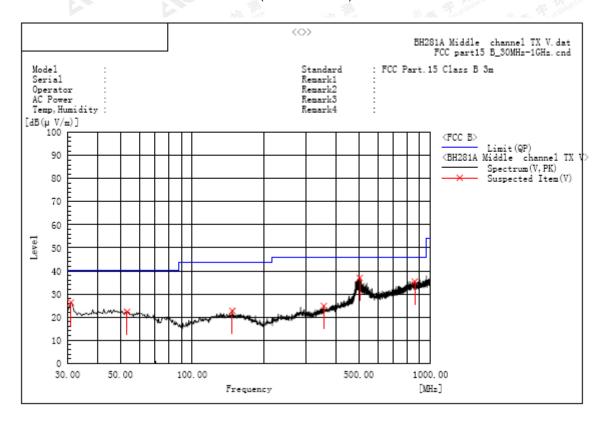
RESULT: PASS

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



A. Suspected List:

Frequency MHz	Polarization	zation Reading dB (uV) Factor dB dB(uV/m) PK DR QP Margin dB		Pass/Fail	Height cm	Angle deg			
30.970	V	10.8	15.6	26.4	40.0	13.6	Pass	100.0	215.5
53.280	V	5.5	16.8	22.3	40.0	17.7	Pass	200.0	232.4
147.370	V	6.1	16.6	22.7	43.5	20.8	Pass	100.0	51.0
356.890	V	5.7	19.2	24.9	46.0	21.1	Pass	200.0	15.5
504.330	V	14.0	23.0	37.0	46.0	9.0	Pass	150.0	287.3
858.380	v	5.7	29.7	35.4	46.0	10.6	Pass	150.0	287.3

RESULT: PASS

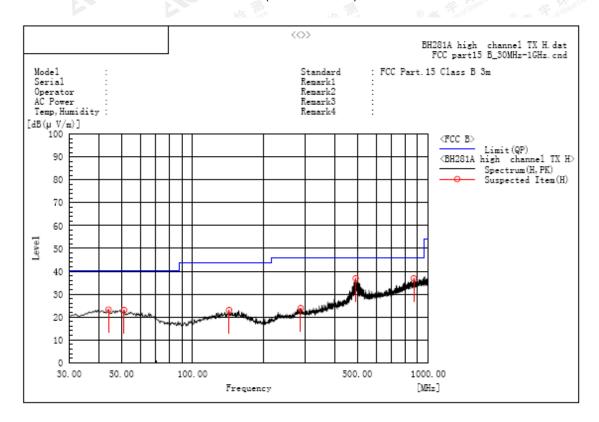
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH 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
44.065	H	5.9	17.3	23.2	40.0	16.8	Pass	100.0	221.0
51.340	Н	6.0	17.0	23.0	40.0	17.0	Pass	150.0	243.0
143.005	Н	6.4	16.6	23.0	43.5	20.5	Pass	100.0	167.8
287.535	Н	6.2	17.7	23.9	46.0	22.1	Pass	100.0	295.7
492.205	Н	14.1	22.8	36.9	46.0	9.1	Pass	200.0	36.4
867.110	Н	7.1	29.8	36.9	46.0	9.1	Pass	100.0	353.1

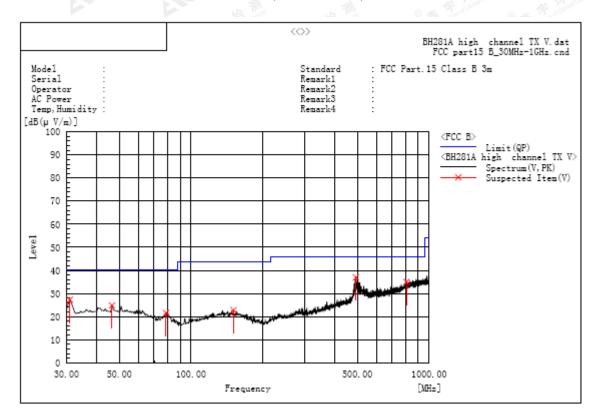
RESULT: PASS

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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) dB		Pass/Fail	Height cm	Angle deg
30.970	V	11.7	15.6	27.3	40.0	12.7	Pass	100.0	299.2
46.490	V	7.7	17.2	24.9	40.0	15.1	Pass	100.0	205.8
78.500	V	9.3	12.3	21.6	40.0	18.4	Pass	200.0	201.8
150.765	V	6.2	16.6	22.8	43.5	20.7	Pass	100.0	108.4
492.205	V	14.2	22.8	37.0	46.0	9.0	Pass	150.0	71.1
803.090	v	6.2	28.8	35.0	46.0	11.0	Pass	100.0	115.2

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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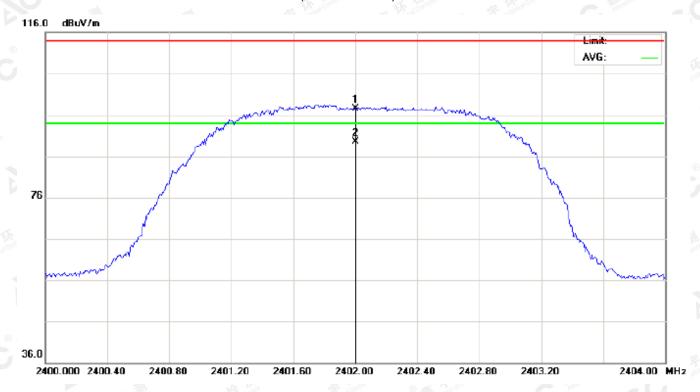
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RADIATED EMISSION ABOVE 1GHz FOR BR/EDR

(Worst modulation: 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	87.11	10.32	97.43	114.00	-16.57	peak			
2	*	2402.000	79.20	10.32	89.52	94.00	-4.48	AVG	100	141	

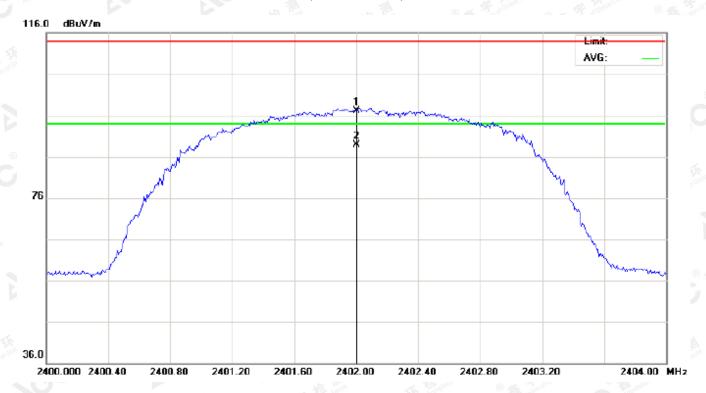
RESULT: PASS

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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	86.71	10.32	97.03	114.00	-16.97	peak			
2	*	2402.000	78.64	10.32	88.96	94.00	-5.04	AVG	100	27	

RESULT: PASS

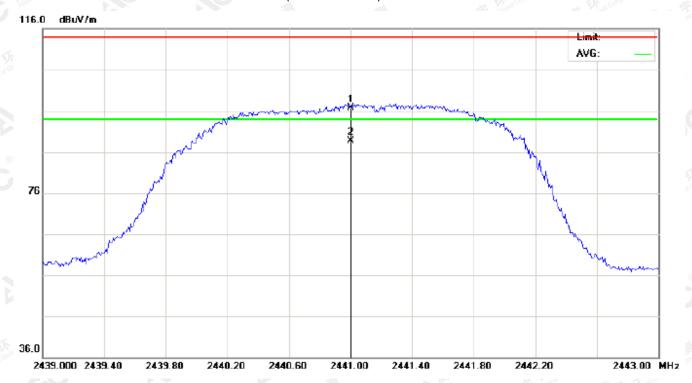
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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



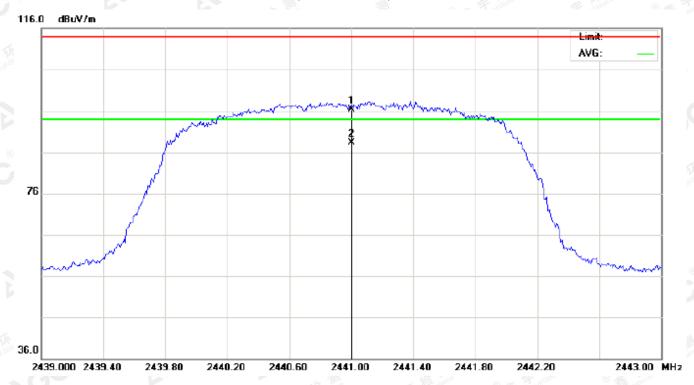
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2441.000	86.35	10.36	96.71	114.00	-17.29	peak			
2	*	2441.000	78.41	10.36	88.77	94.00	-5.23	AVG	100	128	

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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	85.94	10.36	96.30	114.00	-17.70	peak			
2	*	2441.000	77.91	10.36	88.27	94.00	-5.73	AVG	100	26	

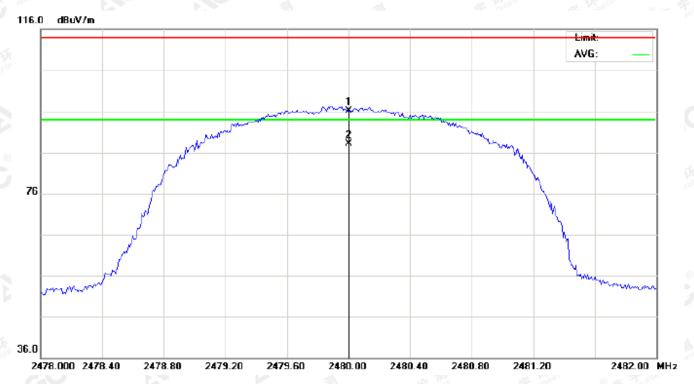
RESULT: PASS

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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	85.65	10.41	96.06	114.00	-17.94	peak			
2	*	2480.000	77.68	10.41	88.09	94.00	-5.91	AVG	100	144	

RESULT: PASS

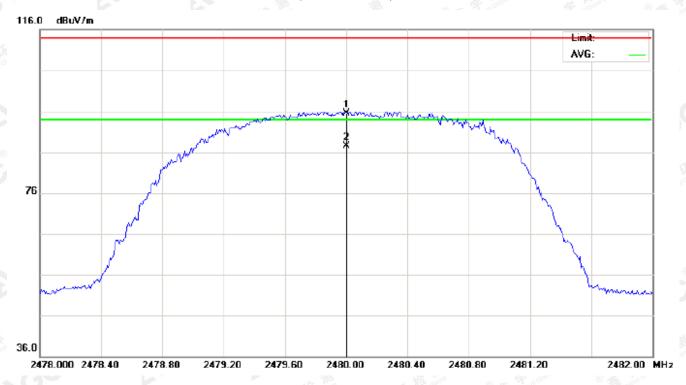
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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2480.000	85.18	10.41	95.59	114.00	-18.41	peak			
2	*	2480.000	77.16	10.41	87.57	94.00	-6.43	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	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	87.11	10.32	97.43	114	-16.57	Horizontal	
2402	86.71	10.32	97.03	114	-16.97	Vertical	
2441	86.35	10.36	96.71	114	-17.29	Horizontal	
2441	85.94	10.36	96.30	114	-17.70	Vertical	
2480	85.65	10.41	96.06	114	-17.94	Horizontal	
2480	85.18	10.41	95.59	114	-18.41	Vertical	

Average value

,go							
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	79.20	10.32	89.52	94	-4.48	Horizontal	
2402	78.64	10.32	88.96	94	-5.04	Vertical	
2441	78.41	10.36	88.77	94	-5.23	Horizontal	
2441	77.91	10.36	88.27	94	-5.73	Vertical	
2480	77.68	10.41	88.09	94	-5.91	Horizontal	
2480	77.16	10.41	87.57	94	-6.43	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	86.78	10.32	97.10	114	-16.90	Horizontal	
2402	86.40	10.32	96.72	114	-17.28	Vertical	
2441	85.86	10.36	96.22	114	-17.78	Horizontal	
2441	85.51	10.36	95.87	114	-18.13	Vertical	
2480	85.25	10.41	95.66	114	-18.34	Horizontal	
2480	84.71	10.41	95.12	114	-18.88	Vertical	

Average value

					153 gland	
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.71	10.32	89.03	94	-4.97	Horizontal
2402	78.24	10.32	88.56	94	-5.44	Vertical
2441	78.07	10.36	88.43	94	-5.57	Horizontal
2441	77.59	10.36	87.95	94	-6.05	Vertical
2480	77.22	10.41	87.63	94	-6.37	Horizontal
2480	76.75	10.41	87.16	94	-6.84	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	86.32	10.32	96.64	114	-17.36	Horizontal
2402	85.99	10.32	96.31	114	-17.69	Vertical
2441	85.50	10.36	95.86	114	-18.14	Horizontal
2441	85.06	10.36	95.42	114	-18.58	Vertical
2480	84.95	10.41	95.36	114	-18.64	Horizontal
2480	84.36	10.41	94.77	114	-19.23	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	78.24	10.32	88.56	94	-5.44	Horizontal	
2402	77.88	10.32	88.20	94	-5.80	Vertical	
2441	77.59	10.36	87.95	94	-6.05	Horizontal	
2441	77.12	10.36	87.48	94	-6.52	Vertical	
2480	76.91	10.41	87.32	94	-6.68	Horizontal	
2480	76.29	10.41	86.70	94	-7.30	Vertical	

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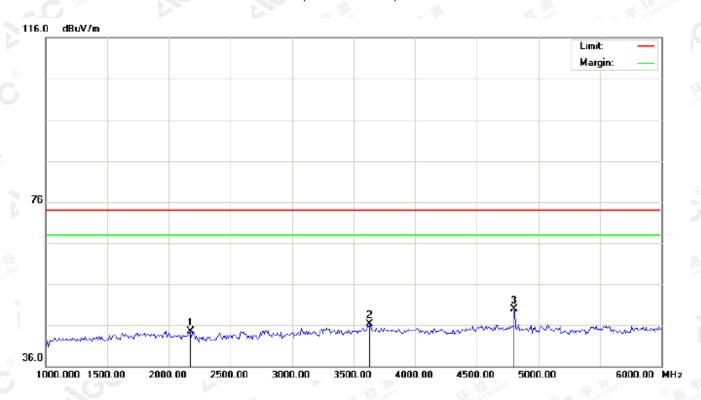
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FOR BR/EDR

(Worst modulation: GFSK)

For Harmonics

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2175.000	34.50	10.07	44.57	74.00	-29.43	peak			
2		3633.333	33.44	12.93	46.37	74.00	-27.63	peak			
3	*	4804.000	42.21	7.69	49.90	74.00	-24.10	peak			

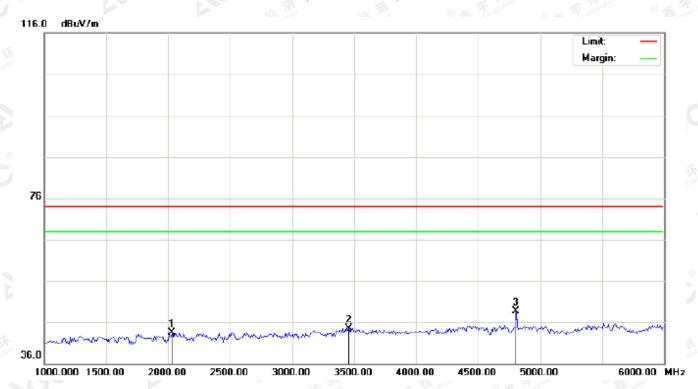
RESULT: PASS

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



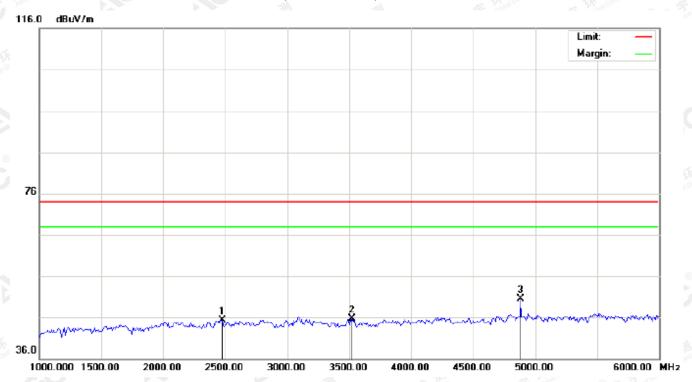
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2033.333	33.59	9.92	43.51	74.00	-30.49	peak			
2		3458.333	32.40	12.07	44.47	74.00	-29.53	peak			
3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

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



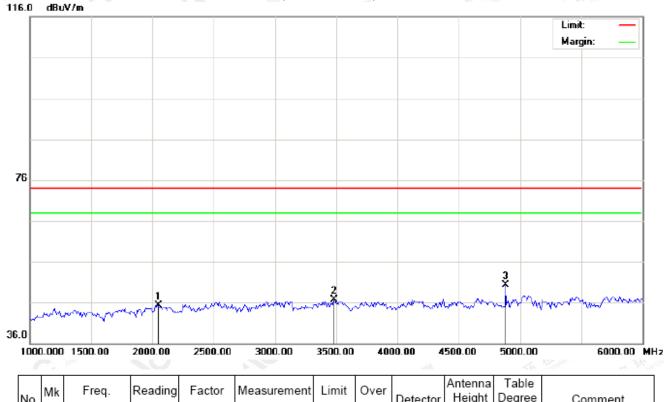
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2475.000	34.98	10.40	45.38	74.00	-28.62	peak			
2		3525.000	33.36	12.26	45.62	74.00	-28.38	peak			
3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

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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		2050.000	35.44	9.93	45.37	74.00	-28.63	peak			
2		3483.333	34.56	12.09	46.65	74.00	-27.35	peak			
3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

RESULT: PASS

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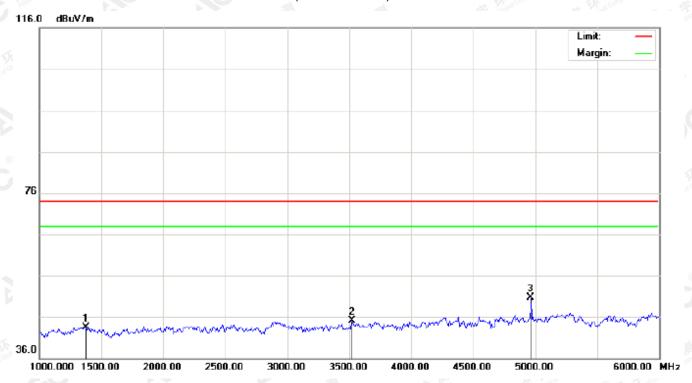
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Add: 2/F. , Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		1375.000	39.02	4.57	43.59	74.00	-30.41	peak			
2		3525.000	32.79	12.26	45.05	74.00	-28.95	peak			
3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak			

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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		1858.333	35.57	8.39	43.96	74.00	-30.04	peak			
2		3375.000	33.79	11.99	45.78	74.00	-28.22	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

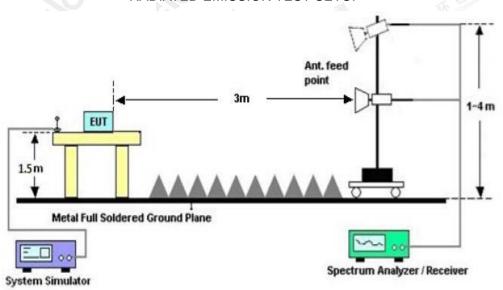
10.1. MEASUREMENT PROCEDURE

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

	Start frequenc	y(MHz)		Stop frequency(MHz)				
	2200	K KE TILL	The town has	® ##	2405	CO		
® All Street and the	2478	Global ®	Allestation of City	GO	2500			

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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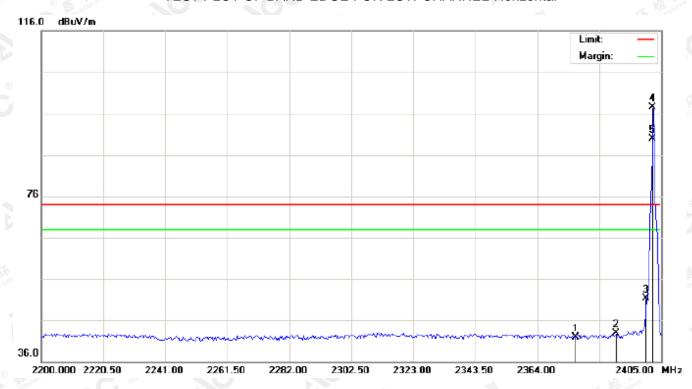
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10.3 RADIATED TEST RESULT

FOR BR/EDR

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



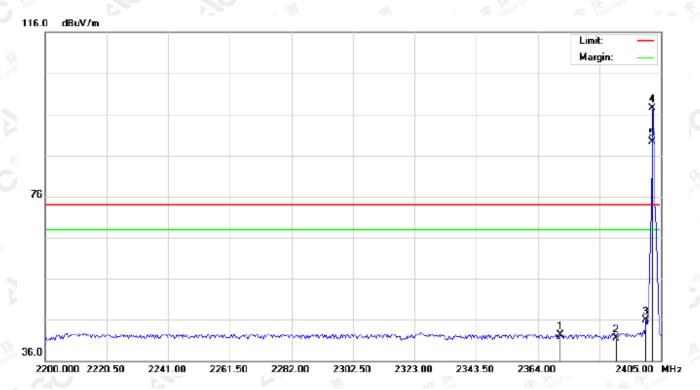
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2376.642	31.54	10.29	41.83	74.00	-32.17	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	40.97	10.32	51.29	74.00	-22.71	peak			
4	*	2402.000	87.22	10.32	97.54	74.00	23.54	peak			
5	Х	2402.000	79.51	10.32	89.83	74.00	15.83	AVG	100	145	

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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		2371.517	31.96	10.29	42.25	74.00	-31.75	peak			
2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
3		2400.000	35.56	10.32	45.88	74.00	-28.12	peak			
4	*	2402.000	87.09	10.32	97.41	74.00	23.41	peak			
5	Х	2402.000	78.91	10.32	89.23	74.00	15.23	AVG	100		

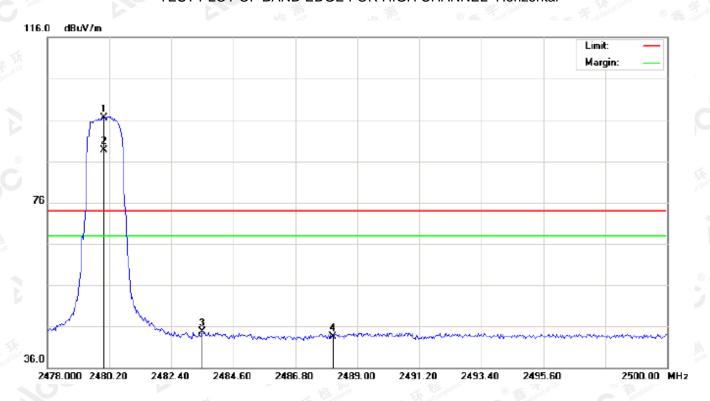
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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



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	86.05	10.41	96.46	74.00	22.46	peak			
2	Х	2480.000	78.23	10.41	88.64	74.00	14.64	AVG	100	139	
3		2483.500	34.19	10.41	44.60	74.00	-29.40	peak			
4		2488.120	33.05	10.42	43.47	74.00	-30.53	peak			

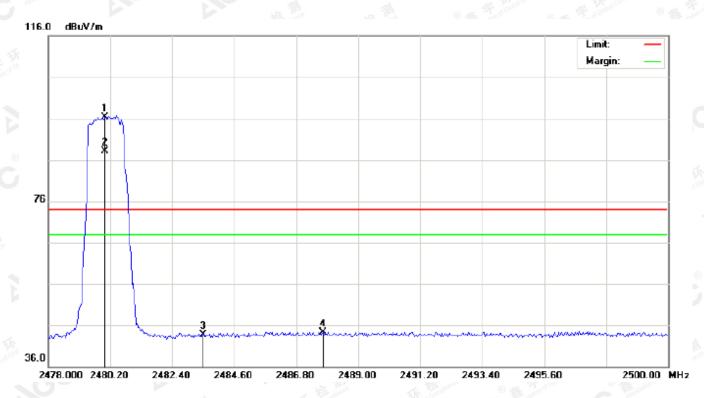
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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu√/m	dB		cm	degree	
1	*	2480.000	85.82	10.41	96.23	74.00	22.23	peak			
2	Х	2480.000	77.66	10.41	88.07	74.00	14.07	AVG	100	22	
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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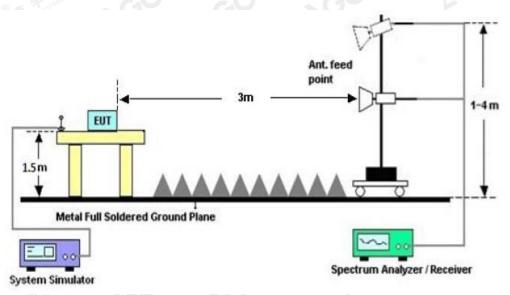
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11. 20DB BANDWIDTH

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		Test Data (MHz)								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
A description of Attention of A	Low Channel	0.997	1.127	PASS						
N/A	Middle Channel	0.966	1.117	PASS						
100	High Channel	0.962	1.111 The state of	PASS						

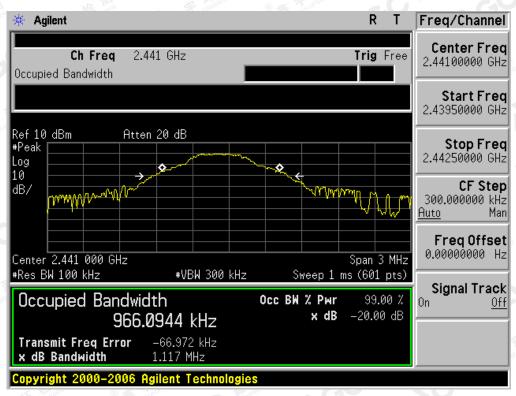
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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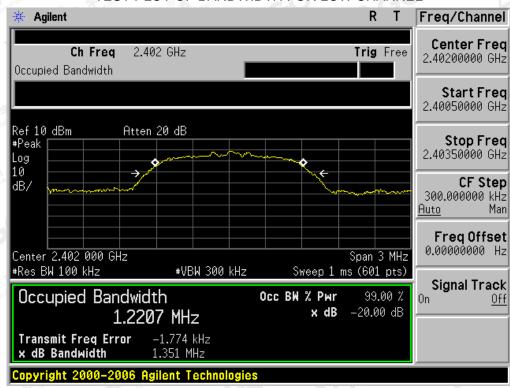
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BLUETO	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT		
		Measure	ement Result		
Applicable Limits		D			
		99%OBW (MHz)	-20dB BW(MHz)	Result	
TA TO THE TANK	Low Channel	1.221	1.351	PASS	
N/A	Middle Channel	1.204	1.376	PASS	
	High Channel	1.216	1.376	PASS	

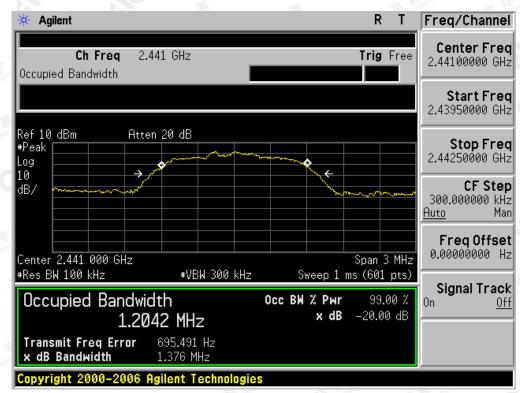
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



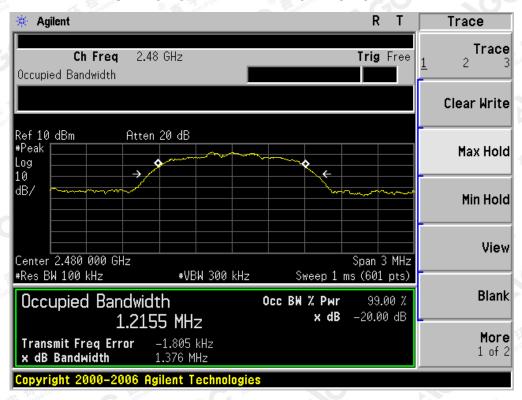
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

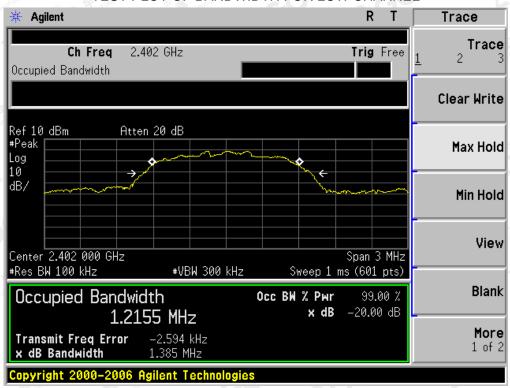


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BLUETO	OOTH 3MBPS LIN	MITS AND MEASU	REMENT RESULT						
	Measurement Result								
Applicable Limits		Doorle							
		-20dB BW(MHz)	Result						
The Manager The Ma	Low Channel	1.216	1.385	PASS					
N/A	Middle Channel	1.242	1.375	PASS					
	High Channel	1.222	1.385	PASS					

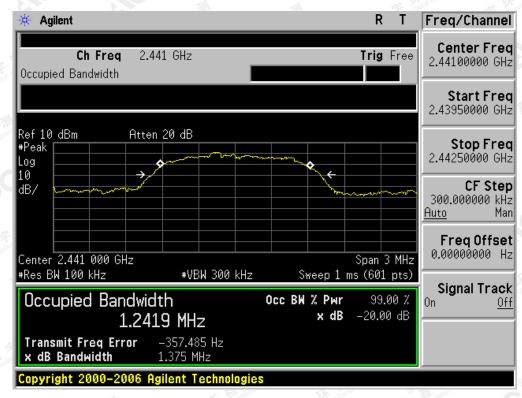
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



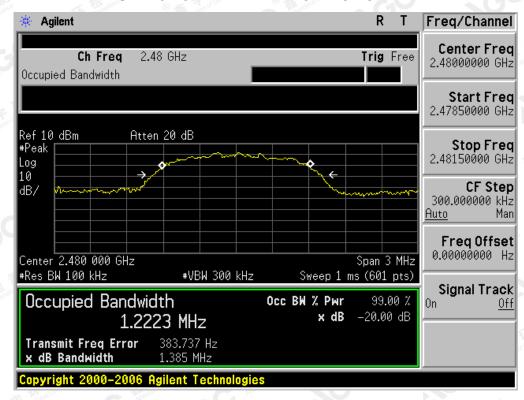
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

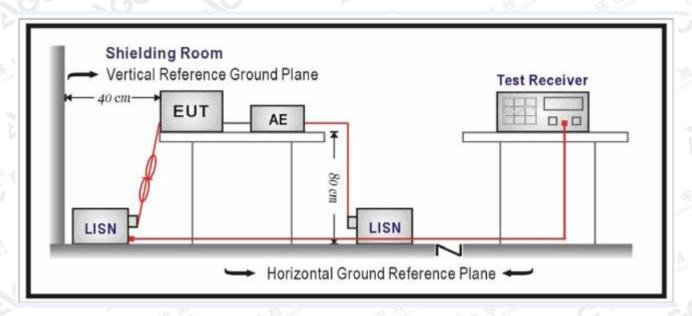
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

Note:

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

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

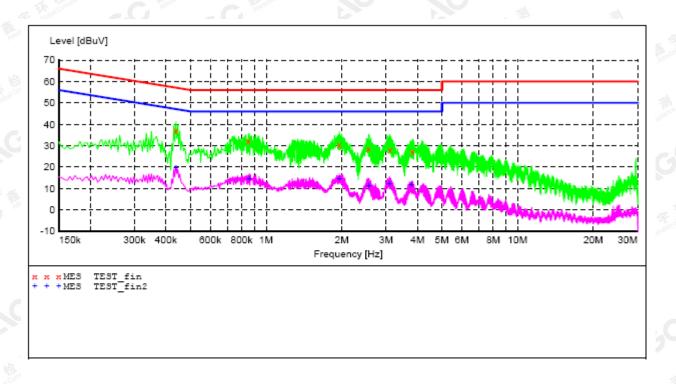
Line Conducted Emission Test Line 1-L

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MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.438000 0.850000 1.954000 2.554000 3.106000 3.822000	36.80 32.50 30.40 28.60 28.30 27.40	10.0 10.1 9.9 9.9 9.9 10.1	57 56 56 56 56	20.3 23.5 25.6 27.4 27.7 28.6	QP	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO

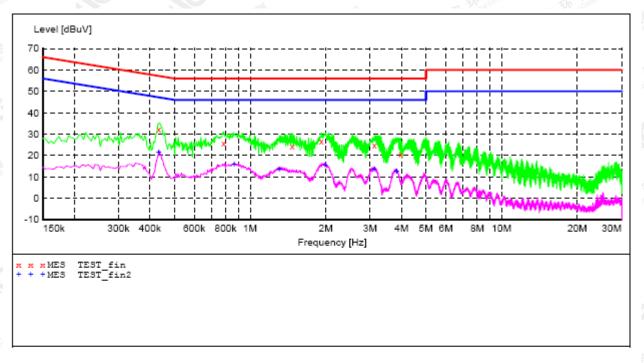
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.438000 0.858000 1.954000 2.566000 3.090000 3.786000	19.50 14.30 14.30 11.40 12.10 11.70	10.0 10.1 9.9 9.9 9.9	47 46 46 46 46 46	27.6 31.7 31.7 34.6 33.9 34.3	AV AV AV AV AV	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.434000 0.786000 1.470000 1.922000 3.126000 3.966000	32.10 25.60 24.30 26.50 24.80 20.80	10.0 10.0 10.0 9.9 9.9 10.1	57 56 56 56 56	25.1 30.4 31.7 29.5 31.2 35.2	QP QP QP QP QP QP	N N N N N	FLO FLO FLO FLO FLO

MEASUREMENT RESULT:

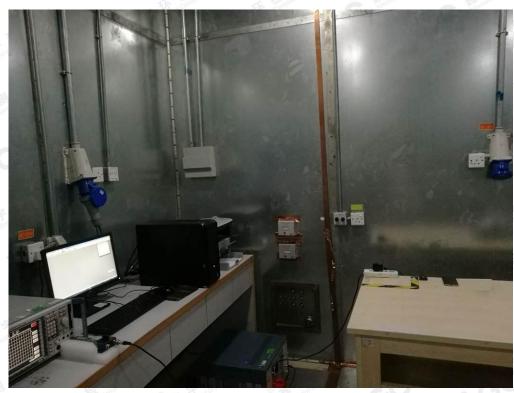
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.434000	21.40	10.0	47	25.8	AV	N	FLO
0.866000	15.90	10.1	46	30.1	AV	N	FLO
1.306000	13.50	10.1	46	32.5	AV	N	FLO
1.986000	15.60	9.9	46	30.4	AV AV	N	FLO
3.122000	13.60	9.9	46	32.4	AV	N	FLO
3.826000	12.70	10.1	46	33.3		N	FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



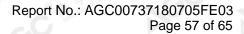
FCC RADIATED EMISSION TEST SETUP



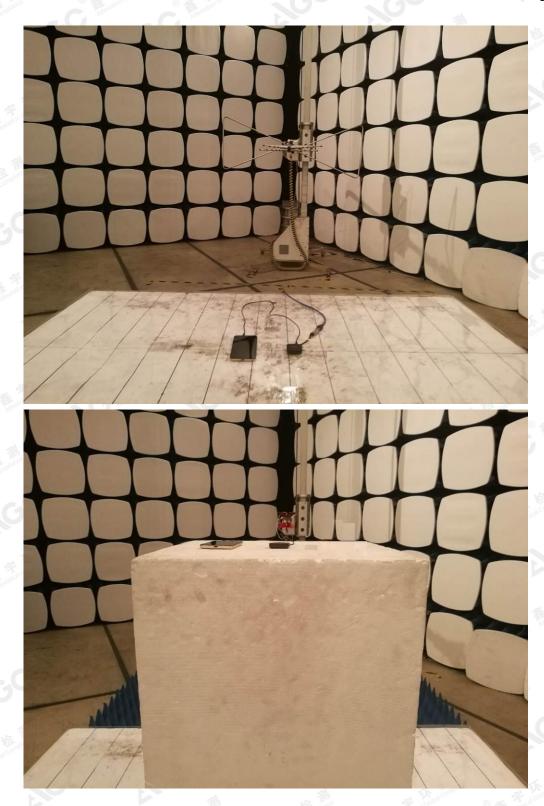
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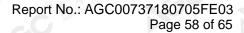
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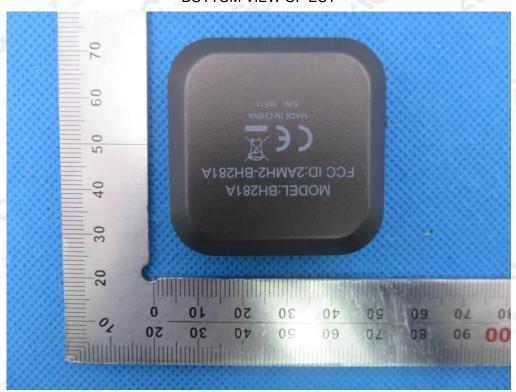


APPENDIX B: PHOTOGRAPHS OF EUT

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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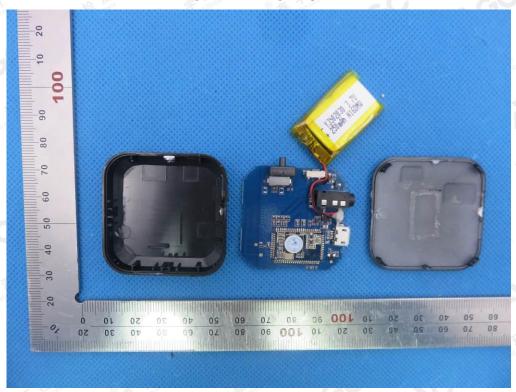
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VIEW OF EUT (PORT)



OPEN VIEW OF EUT



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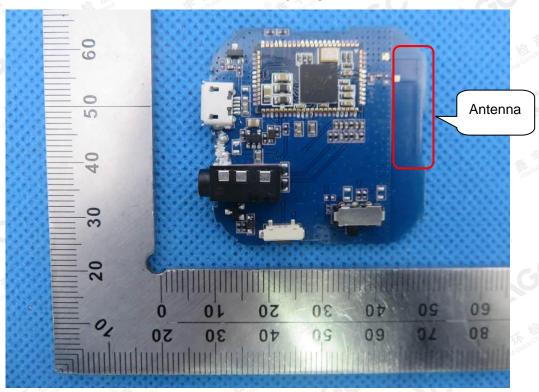
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VIEW OF BATTERY



INTERNAL VIEW OF EUT-1



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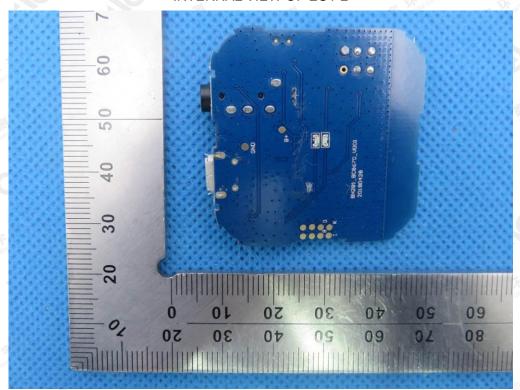
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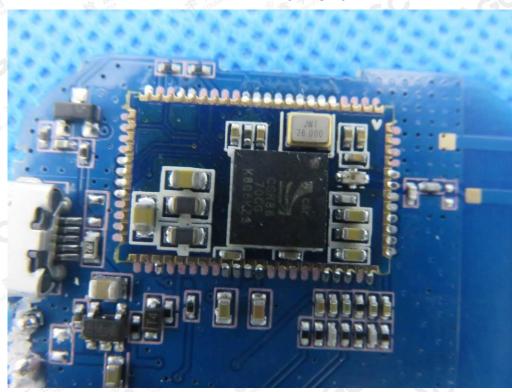
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INTERNAL VIEW OF EUT-2



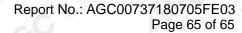
INTERNAL VIEW OF EUT-3



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VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

----END OF REPORT----

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