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FCC Test Report

Report No.: AGC00737180520FE03

FCC ID	: 2AIL4-BH173A
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Wireless Speaker
BRAND NAME	: VTIN
MODEL NAME	: BH173A
CLIENT	: VTIN TECHNOLOGY Co., Limited
DATE OF ISSUE	: Jun. 07, 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

AGC

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Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jun. 07, 2018	Valid	Initial release

Report Revise Record





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Applicant	VTIN TECHNOLOGY Co., Limited
Address	Unit D,16/F, One Capital Place, 18 Luard Road Wan Chai, HongKong, China
Manufacturer	VTIN TECHNOLOGY Co., Limited
Address	Unit D,16/F, One Capital Place, 18 Luard Road Wan Chai, HongKong, China
Product Designation	Wireless Speaker
Brand Name	VTIN
Test Model	BH173A
Date of test	May 25, 2018 to Jun. 04, 2018
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

1. VERIFICATION OF CONFORMITY

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 Wang

Jonhen Wang(Wang Yonghuan) Jun. 04, 2018

we chang

Reviewed By

Cool Cheng(Cheng Mengguo) Jun. 07, 2018

Forvesto en

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

Jun. 07, 2018





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2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-1.45dBm(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
Hardware Version	V1.1
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	1.7dBi
Power Supply	DC 3.7V by battery
Note: The USB port only u	sed 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
NO S	0	2402MHz
The Barrense	· *****	2403MHz
C Standard Color	GC : CC	
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
The transferrer @ The Transferrer Contractor	40 0	2442 MHz
of colored and a		
	77	2479 MHz
The Hannes	78	2480 MHz



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

TEST MODE DESCRIPTION				
Low channel GFSK				
Middle channel GFSK				
High channel GFSK				
Low channel π /4-DQPSK				
Middle channel π /4-DQPSK				
High channel π /4-DQPSK				
Low channel 8DPSK				
Middle channel 8DPSK				
High channel 8DPSK				
BT Link with charging				
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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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



EUT

Adapte

Adapter or PC

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	Mfr/Brand	Model/Type No.	Remark
1	Wireless Speaker	VTIN	BH173A	EUT
2	Battery	M2T	523450	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	N/A	1m unshielded	A.E
7	IPOD	APPLE	A1367	A.E
8	TF Card	Kingston	SDA10/16GB	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





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
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B		Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	F ACODAL CONTRACTO	Jun.20, 2017	Jun.19, 2018





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 Str	engths Limit
(MHz)	Meters	μ V/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	E England Con Call
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3 South States	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(µV)/m

Remark: (1) Emission level dB μ V = 20 log Emission level μ V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



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9.2. MEASUREMENT PROCEDURE

- The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)





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Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

The following table is the setting of spectrum analyzer and receiver.

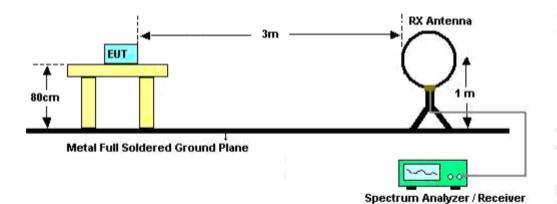


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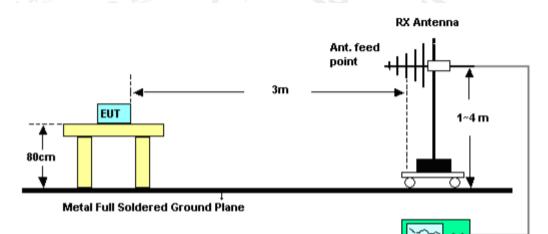
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9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



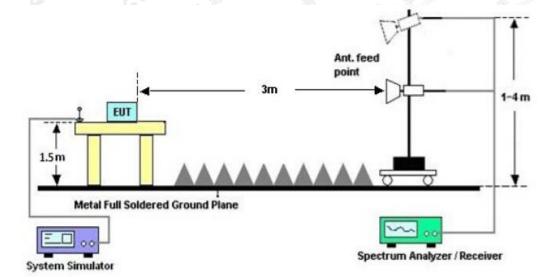
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Spectrum Analyzer / Receiver



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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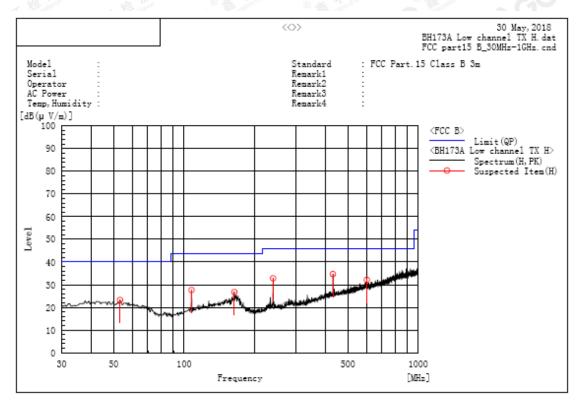
9.4. TEST RESULT

(Worst modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz. **RADIATED EMISSION BELOW 1GHz**

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



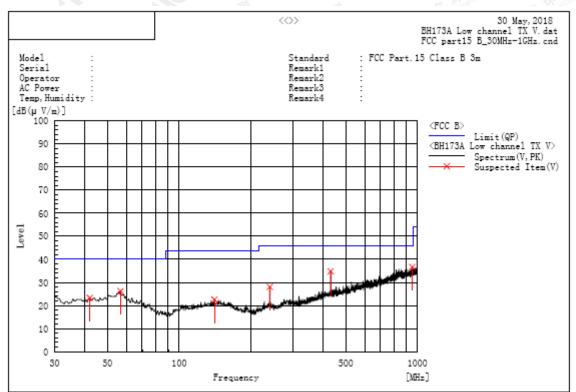
A. Suspected List:

2.0	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
	53.280	Н	6.5	16.8	23.3	40.0	16.7	Pass	100.0	158.8
	107.600	Н	13.4	14.3	27.7	43.5	15.8	Pass	200.0	350.5
	163.860	н	10.3	16.5	26.8	43.5	16.7	Pass	200.0	350.5
	240.005	н	16.6	16.2	32.8	46.0	13.2	Pass	100.0	174.6
	432.065	н	13.0	21.7	34.7	46.0	11.3	Pass	100.0	76.1
	603.270	н	7.2	25.0	32.2	46.0	13.8	Pass	100.0	152.7

RESULT: PASS

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

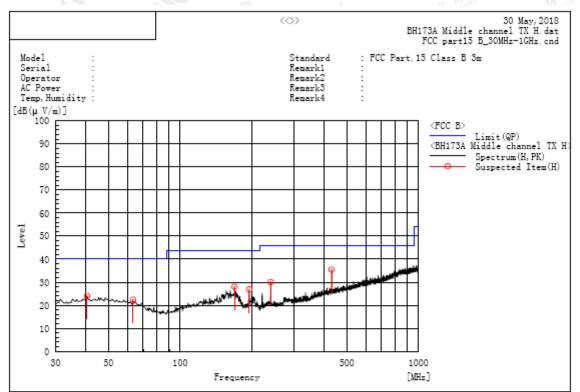
A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
	42.125	v	6.0	17.4	23.4	40.0	16.6	Pass	100.0	3.5
Γ	56.675	v	9.7	16.6	26.3	40.0	13.7	Pass	200.0	266.9
	140.580	v	6.0	16.6	22.6	43.5	20.9	Pass	200.0	341.6
	240.005	v	11.9	16.2	28.1	46.0	17.9	Pass	100.0	74.2
	432.065	v	13.1	21.7	34.8	46.0	11.2	Pass	200.0	266.9
	949.560	v	6.0	30.7	36.7	46.0	9.3	Pass	200.0	266.9

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.

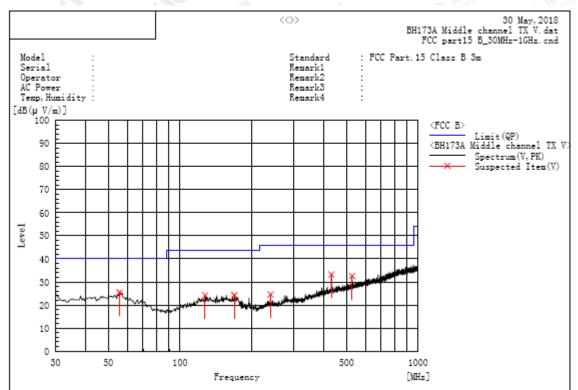


RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
40.670	Н	6.6	17.4	24.0	40.0	16.0	Pass	100.0	195.9
63.465	н	6.6	15.8	22.4	40.0	17.6	Pass	100.0	42.1
169.195	Н	12.0	16.0	28.0	43.5	15.5	Pass	100.0	346.7
194.900	Н	13.3	13.6	26.9	43.5	16.6	Pass	200.0	113.5
240.005	н	13.8	16.2	30.0	46.0	16.0	Pass	200.0	178.2
432.065	н	13.7	21.7	35.4	46.0	10.6	Pass	100.0	48.7

RESULT: PASS



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

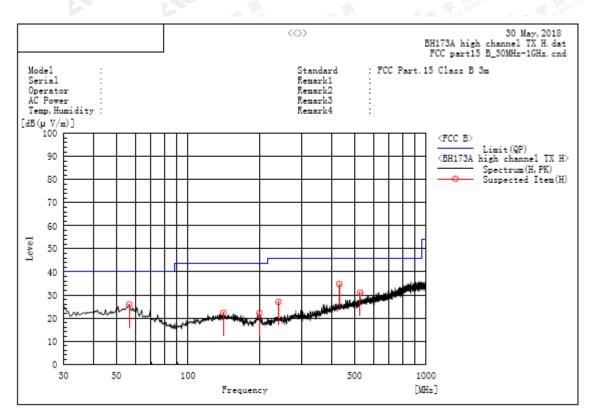
A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
55.705	v	8.9	16.6	25.5	40.0	14.5	Pass	100.0	14.6
127.485	v	8.2	16.0	24.2	43.5	19.3	Pass	100.0	116.1
169.195	v	8.3	16.0	24.3	43.5	19.2	Pass	100.0	153.8
240.005	v	8.4	16.2	24.6	46.0	21.4	Pass	100.0	31.8
432.065	v	11.6	21.7	33.3	46.0	12.7	Pass	200.0	230.6
528.095	v	9.2	23.4	32.6	46.0	13.4	Pass	100.0	30.7

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.

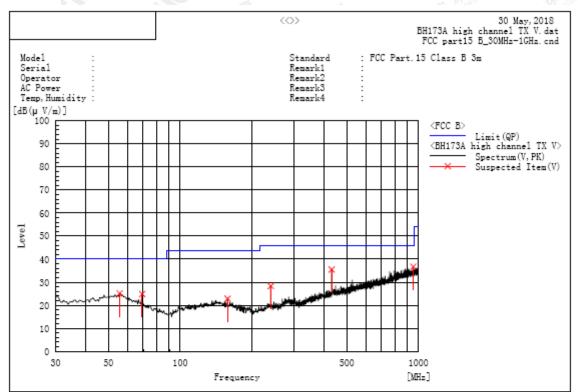


RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
56.675	Н	9.3	16.6	25.9	40.0	14.1	Pass	100.0	268.9
140.580	н	5.7	16.6	22.3	43.5	21.2	Pass	100.0	341.0
199.750	н	8.8	13.5	22.3	43.5	21.2	Pass	100.0	268.9
240.005	Н	10.8	16.2	27.0	46.0	19.0	Pass	100.0	199.4
432.065	Н	13.0	21.7	34.7	46.0	11.3	Pass	100.0	162.3
528.095	н	7.6	23.4	31.0	46.0	15.0	Pass	100.0	162.3

RESULT: PASS



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	Marqin dB	Pass/Fail	Height cm	Angle deg
55.705	v	8.6	16.6	25.2	40.0	14.8	Pass	100.0	14.0
69.285	v	10.3	14.6	24.9	40.0	15.1	Pass	100.0	336.0
158.040	v	6.3	16.6	22.9	43.5	20.6	Pass	100.0	336.0
240.005	v	12.2	16.2	28.4	46.0	17.6	Pass	200.0	324.1
432.065	v	13.8	21.7	35.5	46.0	10.5	Pass	200.0	72.1
951.015	v	6.1	30.7	36.8	46.0	9.2	Pass	200.0	72.1

RESULT: PASS

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

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



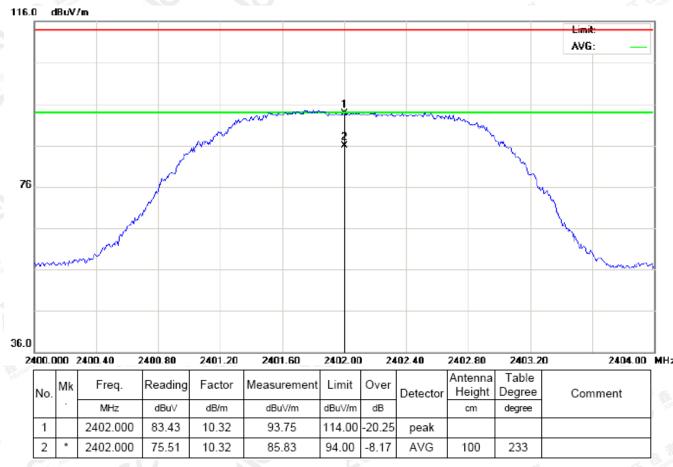
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

For Fundamental

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

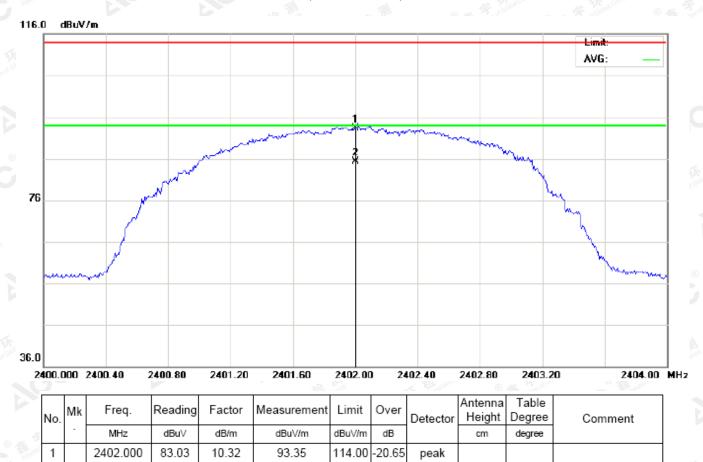


RESULT: PASS





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94.00

-8.71

AVG

100

302

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

RESULT: PASS

2

2402.000

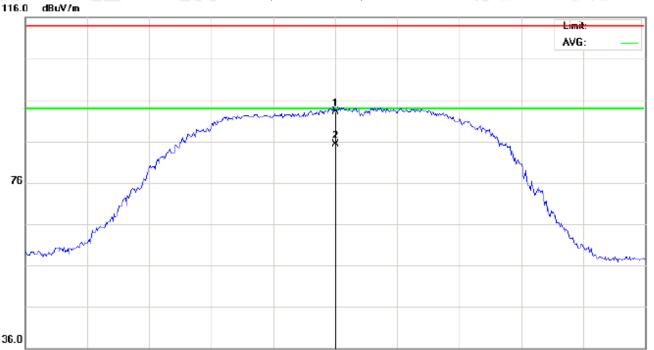
74.97

10.32

85.29







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

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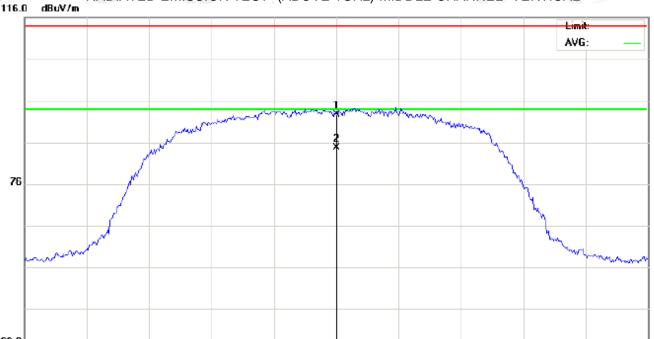
2	439.0	000	2439.40	2439.80	2440.20	2440.60	2441.00) 24	41.40	2441.80	2442.2	0 2443.00	MHz
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	Dal Court
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree		
	1		2441.000	82.80	10.36	93.16	114.00	-20.84	peak]
	2	*	2441.000	74.86	10.36	85.22	94.00	-8.78	AVG	100	236		1

RESULT: PASS





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

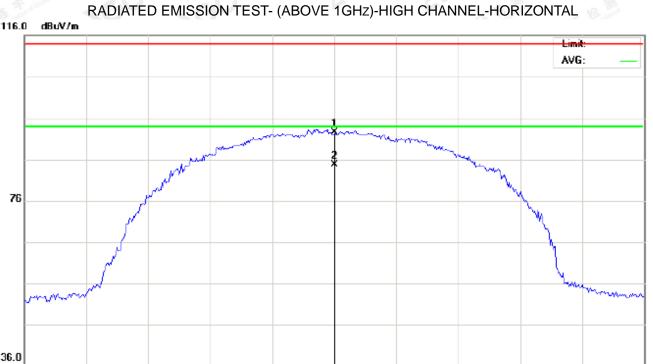
36.0

24	39.0	000	2439.40	2439.80	2440.20	2440.60	2441.0) 24	441.40	2441.80	2442.2	2443.00	MHz
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	8/ 0
		•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree		
	1		2441.000	82.38	10.36	92.74	114.00	-21.26	peak]
512	2	*	2441.000	74.38	10.36	84.74	94.00	-9.26	AVG	100	126]

RESULT: PASS







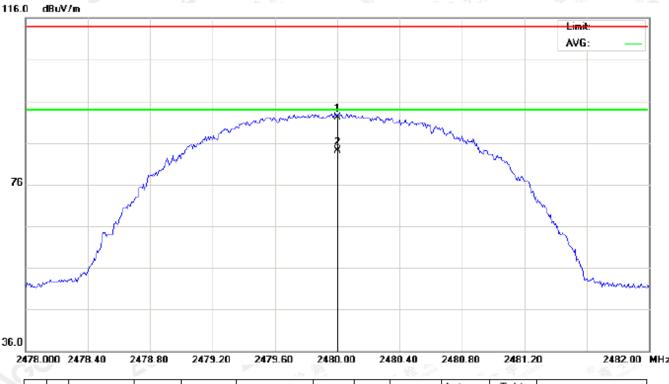
36.0

													6
2	478.0	000	2478.40	2478.80	2479.20	2479.60	2480.00	24	80.40	2480.80	2481.20	2482.00	MHz
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	³¹ Con
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree		
	1		2480.000	82.17	10.41	92.58	114.00	-21.42	peak]
	2	*	2480.000	74.23	10.41	84.64	94.00	-9.36	AVG	100	358]

RESULT: PASS







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

						- L.I.J.			20 11 20 AUG	102.1	226	222 GP 104 V
N	о.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
4		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
8	1		2480.000	81.70	10.41	92.11	114.00	-21.89	peak			
1	2	*	2480.000	73.67	10.41	84.08	94.00	-9.92	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

Reading Level	Factor	Measurement	Limit	Over	Antenna
(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
83.43	10.32	93.75	114	-20.25	Horizontal
83.03	10.32	93.35	114	-20.65	Vertical
82.80	10.36	93.16	114 🔬	-20.84	Horizontal
82.38	10.36	92.74	114	-21.26	Vertical
82.17	10.41	92.58	114	-21.42	Horizontal
81.70	10.41	92.11	114	-21.89	Vertical
	Level (dBuv) 83.43 83.03 82.80 82.38 82.17	Level Factor (dBuv) (dB/m) 83.43 10.32 83.03 10.32 82.80 10.36 82.38 10.36 82.17 10.41	LevelFactorMeasurement(dBuv)(dB/m)(dBuv/m)83.4310.3293.7583.0310.3293.3582.8010.3693.1682.3810.3692.7482.1710.4192.58	LevelFactorMeasurementLimit(dBuv)(dB/m)(dBuv/m)(dBuv/m)83.4310.3293.7511483.0310.3293.3511482.8010.3693.1611482.3810.3692.7411482.1710.4192.58114	LevelFactorMeasurementLimitOver(dBuv)(dB/m)(dBuv/m)(dBuv/m)(dB)83.4310.3293.75114-20.2583.0310.3293.35114-20.6582.8010.3693.16114-20.8482.3810.3692.74114-21.2682.1710.4192.58114-21.42

Average value

Frequency	Reading Level	Factor Measurement		Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	75.51	10.32	85.83	94	-8.17	Horizontal	
2402	74.97	10.32	85.29	94	-8.71	Vertical	
2441	74.86	10.36	85.22	94	-8.78	Horizontal	
2441	74.38	10.36	84.74	94	-9.26	Vertical	
2480	74.23	10.41	84.64	94	-9.36	Horizontal	
2480	73.67	10.41	84.08	94	-9.92	Vertical	



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2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Factor Measurement		Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	82.95	10.32	93.27	114	-20.73	Horizontal
2402	82.61	10.32	92.93	114	-21.07	Vertical
2441	82.32	10.36	92.68	114	-21.32	Horizontal
2441	81.89	10.36	92.25	114	-21.75	Vertical
2480	81.71	10.41	92.12	114	-21.88	Horizontal
2480	81.31	10.41	91.72	114	-22.28	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	75.07	10.32	85.39	94	-8.61	Horizontal
2402	74.59	10.32	84.91	94	-9.09	Vertical
2441	74.47	10.36	84.83	94	-9.17	Horizontal
2441	74.02	10.36	84.38	94	-9.62	Vertical
2480	73.76	10.41	84.17	94	-9.83	Horizontal
2480	73.27	10.41	83.68	94	-10.32	Vertical



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3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Factor Measurement		Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	82.47	10.32	92.79	114	-21.21	Horizontal	
2402	82.31	10.32	92.63	114	-21.37	Vertical	
2441	81.96	10.36	92.32	114	-21.68	Horizontal	
2441	81.54	10.36	91.90	114	-22.10	Vertical	
2480	81.32	10.41	91.73	114	-22.27	Horizontal	
2480	80.86	10.41	91.27	114	-22.73	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	74.69	10.32	85.01	94	-8.99	Horizontal
2402	74.20	10.32	84.52	94	-9.48	Vertical
2441	74.12	10.36	84.48	94	-9.52	Horizontal
2441	73.64	10.36	84.00	94	-10.00	Vertical
2480	73.32	10.41	83.73	94	-10.27	Horizontal
2480	72.88	10.41	83.29	94	-10.71	Vertical



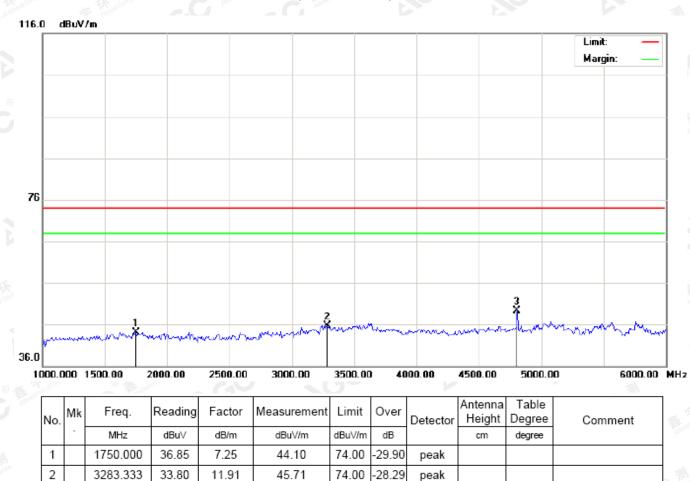


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(Worst modulation: GFSK)

For Harmonics

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



74.00

24 60

peak

RESULT: PASS

4804.000

41.71

7.69

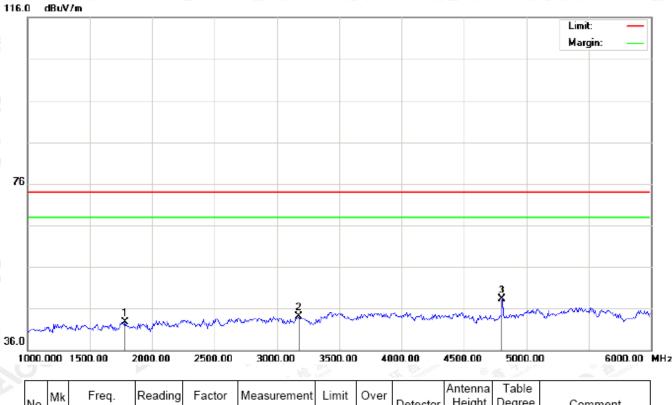
49.40

3





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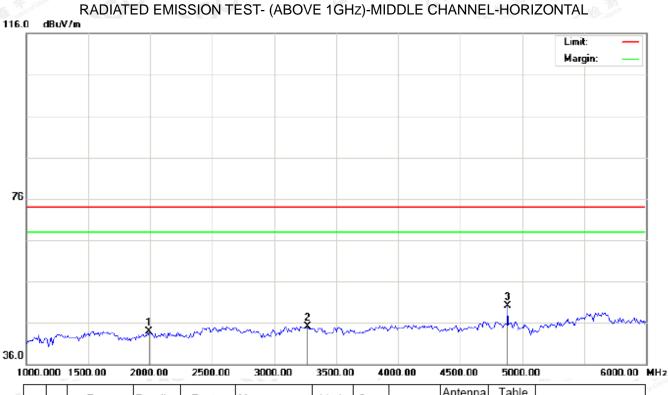
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

N	. I	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
e,		-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1			1783.333	35.07	7.60	42.67	74.00	-31.33	peak			
2			3175.000	32.34	11.80	44.14	74.00	-29.86	peak			
3		*	4804.000	40.55	7.69	48.24	74.00	-25.76	peak			

RESULT: PASS







No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	31
	-	MHz	dBu∨	dB/m	dBu∨/m	dBu∀/m	dB		cm	degree		
1		1991.667	34.20	9.79	43.99	74.00	-30.01	peak				
2		3266.667	33.19	11.89	45.08	74.00	-28.92	peak				
3	*	4882.000	42.16	7.89	50.05	74.00	-23.95	peak				

RESULT: PASS





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

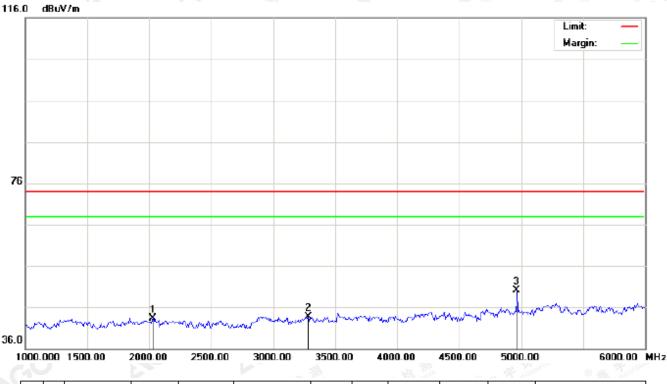
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2091.667	33.91	9.98	43.89	74.00	-30.11	peak			
2		2958.333	34.27	11.54	45.81	74.00	-28.19	peak			
3	*	4882.000	41.89	7.89	49.78	74.00	-24.22	peak			

RESULT: PASS





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

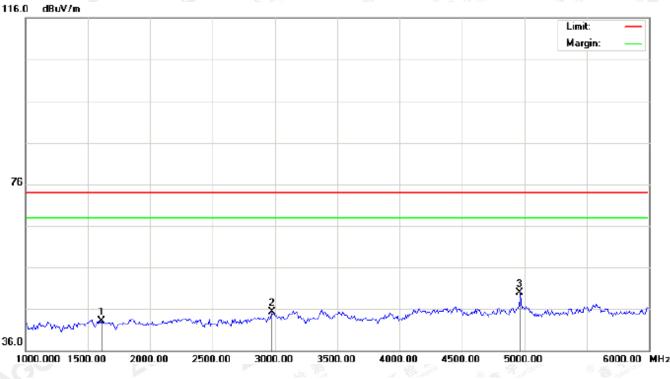
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2033.333	33.34	9.92	43.26	74.00	-30.74	peak			
2		3283.333	31.70	11.91	43.61	74.00	-30.39	peak			
3	*	4960.000	42.10	8.09	50.19	74.00	-23.81	peak			

RESULT: PASS





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

	<u> </u>											
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∨	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
ð	1		1608.333	37.38	5.76	43.14	74.00	-30.86	peak			
	2		2975.000	33.70	11.58	45.28	74.00	-28.72	peak			
	3	*	4960.000	41.91	8.09	50.00	74.00	-24.00	peak			

RESULT: PASS

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

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

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

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10. BAND EDGE EMISSION

10.1. MEASUREMENT PROCEDURE

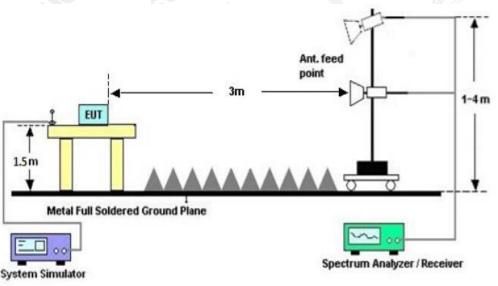
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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

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

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

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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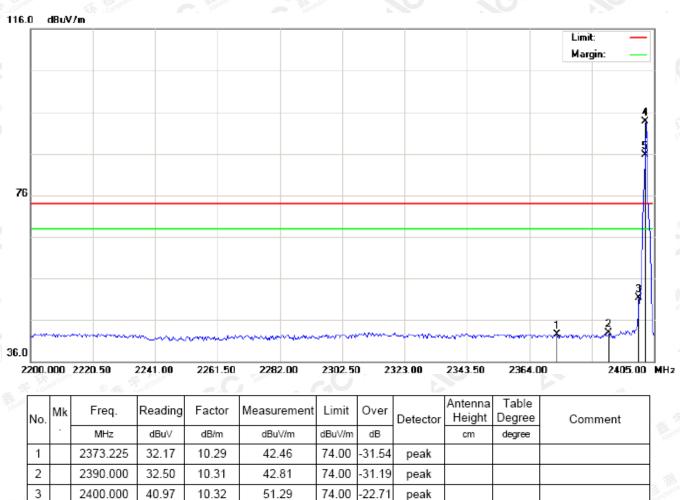


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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



74.00

74.00

19.64

11.72

peak

AVG

100

248

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2402.000

2402.000

4

5 | X

10.32

10.32

83.32

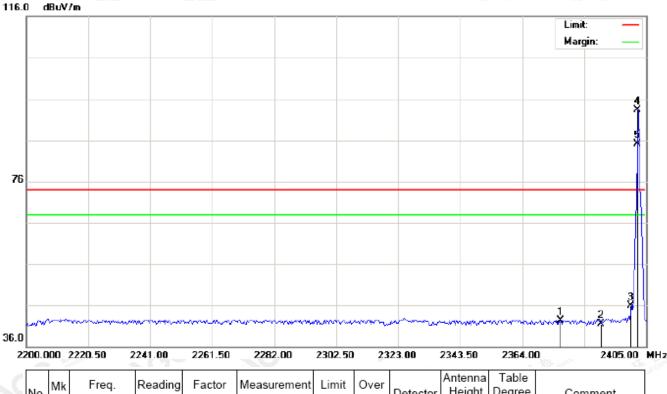
75.40

93.64

85.72



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Ç	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		2376.642	32.09	10.29	42.38	74.00	-31.62	peak			
17 iat	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	82.92	10.32	93.24	74.00	19.24	peak			
	5	Х	2402.000	74.85	10.32	85.17	74.00	11.17	AVG	100	157	

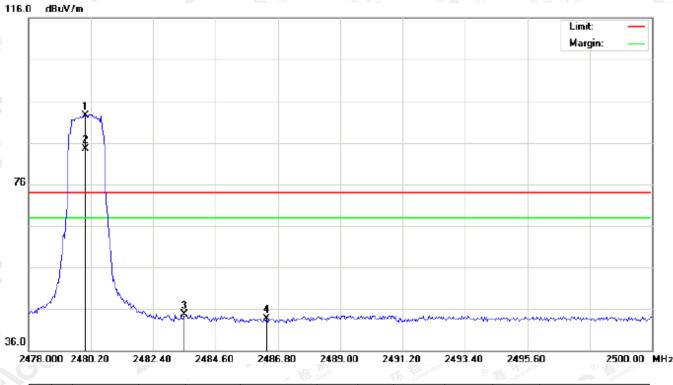
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

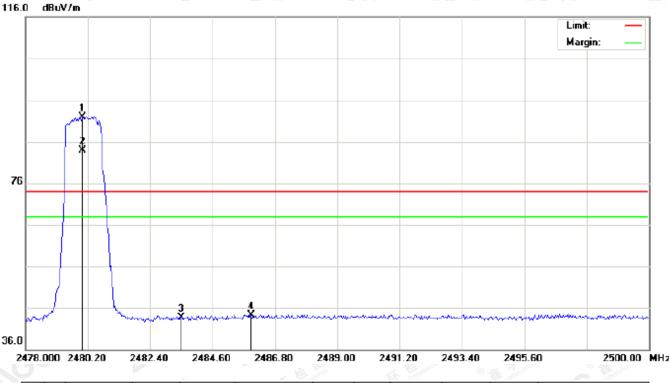
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
stat	1	*	2480.000	82.06	10.41	92.47	74.00	18.47	peak			
	2	Х	2480.000	74.12	10.41	84.53	74.00	10.53	AVG			
	3		2483.500	34.19	10.41	44.60	74.00	-29.40	peak			
	4		2486.396	33.36	10.41	43.77	74.00	-30.23	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	2480.000	81.59	10.41	92.00	74.00	18.00	peak			
2	Х	2480.000	73.55	10.41	83.96	74.00	9.96	AVG	100	159	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2485.957	33.98	10.41	44.39	74.00	-29.61	peak			

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

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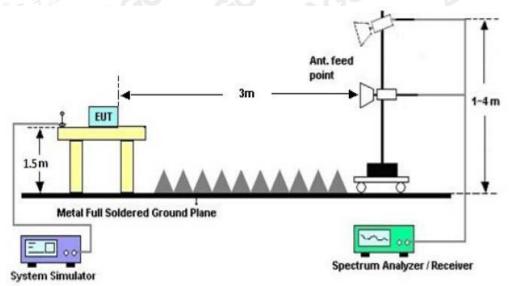
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel
- RBW \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

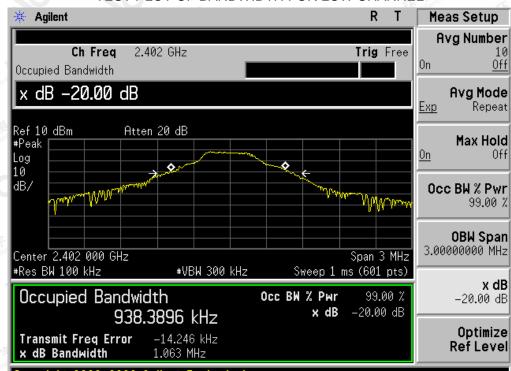


11.3. LIMITS AND MEASUREMENT RESULTS

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT										
		Measure	ement Result							
Applicable Limits		Dec. H								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
the man	Low Channel	0.938	1.063	PASS						
N/A	Middle Channel	0.936	1.069	PASS						
NOC AU	High Channel	0.931	1.054	PASS						

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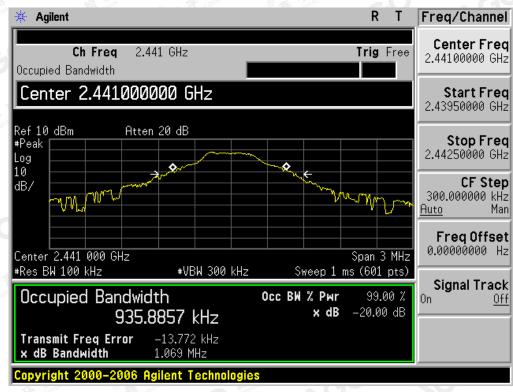


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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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	BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT											
		Measure	ement Result									
Applicable Limits		D K										
		99%OBW (MHz)	-20dB BW(MHz)	Result								
The fill and the fill and	Low Channel	1.226	1.375	PASS								
N/A	Middle Channel	1.219	1.385	PASS								
	High Channel	1.224	1.406	PASS								
	10-	-2007	M. M. alco.	Aur Aur								

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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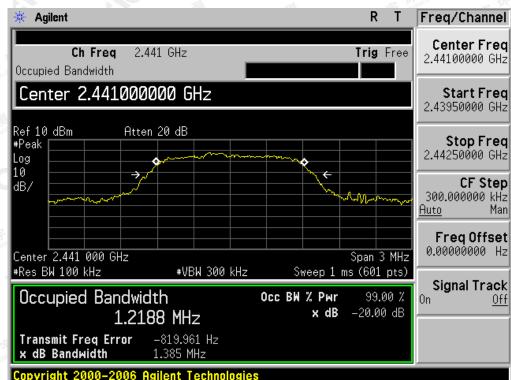
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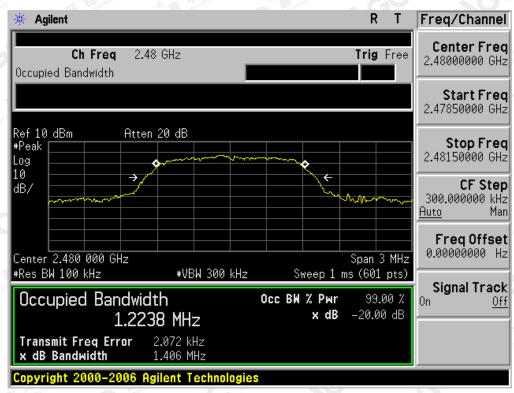
测

检



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

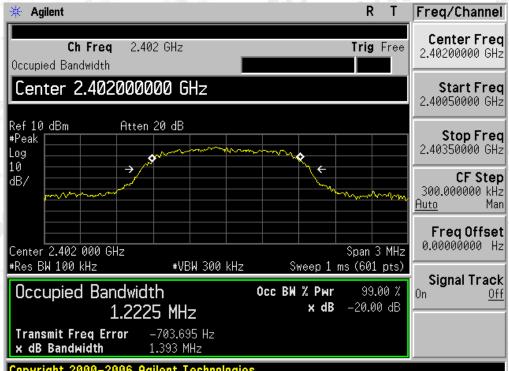
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT											
	Measurement Result										
	Test Data (MHz)										
	99%OBW (MHz)	-20dB BW(MHz)	Result								
Low Channel	1.223	1.393	PASS								
Middle Channel	1.234	1.403	PASS								
High Channel	1.235	1.374	PASS								
	Low Channel Middle Channel	Measure Test Data (MHz) 99%OBW (MHz) Low Channel 1.223 Middle Channel 1.234	Measurement Result Test Data (MHz) 99%OBW (MHz) -20dB BW(MHz) Low Channel 1.223 1.393 Middle Channel 1.234 1.403								

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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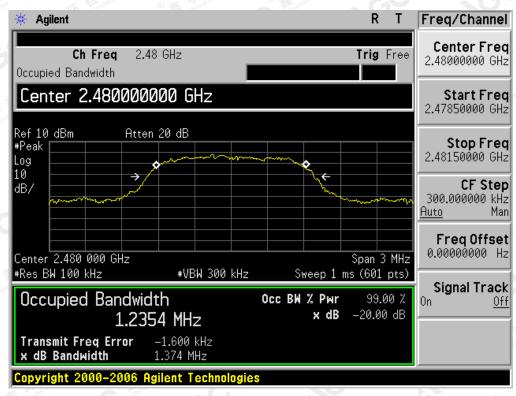
测

检



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

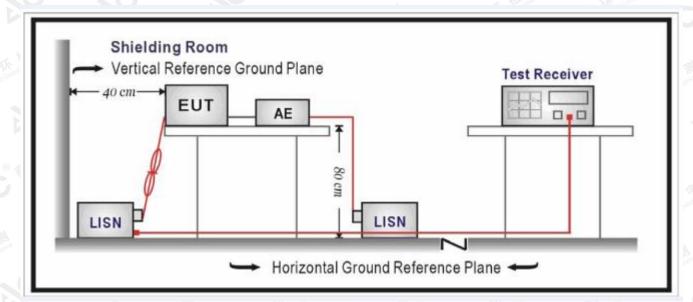
Francisco	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	56	46					
5MHz~30MHz	60	50					

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.
- 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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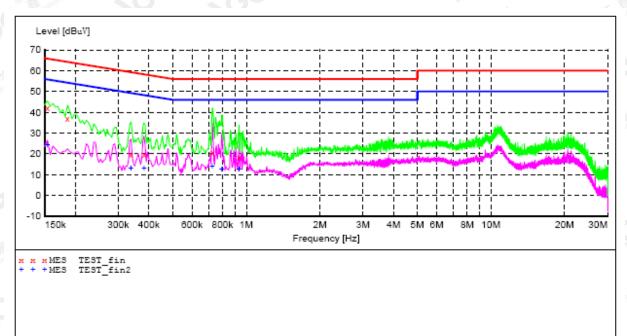
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.154000	42.20	10.0	66	23.6	QP	L1	FLO
0.186000	37.10	10.1	64	27.1	QP	L1	FLO
0.338000	19.70	10.1	59	39.6	QP	L1	FLO
0.382000	19.50	10.1	58	38.7	QP	L1	FLO
0.726000	20.40	10.1	56	35.6	QP	L1	FLO
0.934000	18.40	10.2	56	37.6	QP	L1	FLO

MEASUREMENT RESULT:

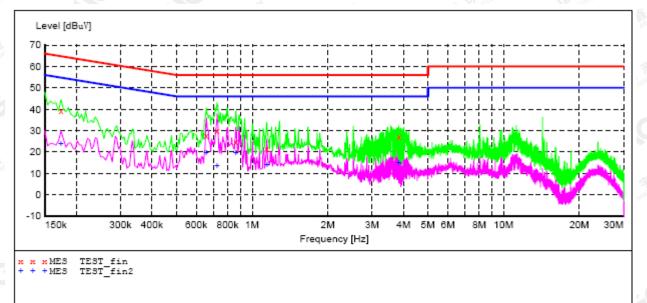
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.154000 0.338000 0.726000 0.794000 0.934000	24.50 13.20 13.00 14.00 12.60 12.80	10.0 10.1 10.1 10.1 10.2 10.2	56 49 48 46 46 46	31.3 36.1 35.2 32.0 33.4 33.2	AV AV AV AV	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO FLO

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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
0.174000 0.658000 0.726000 0.862000 1.142000 3.834000	39.10 27.80 29.90 24.80 21.40 27.20	10.0 10.1 10.1 10.2 10.2 10.1	65 56 56 56 56	25.7 28.2 26.1 31.2 34.6 28.8	QP QP QP QP QP QP	N N N N N	FLO FLO FLO FLO FLO FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.174000 0.658000 0.726000 0.862000 1.146000 3.834000	24.10 19.80 13.80 19.80 13.90 15.20	10.0 10.1 10.2 10.2 10.2 10.1	55 46 46 46 46	32.2	AV	N N N N N	FLO FLO FLO FLO FLO FLO

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



FCC RADIATED EMISSION TEST SETUP

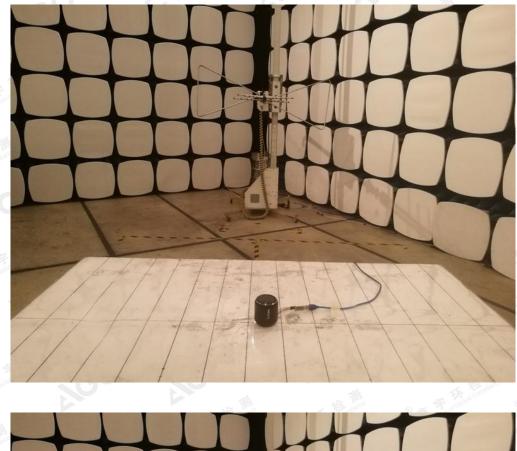


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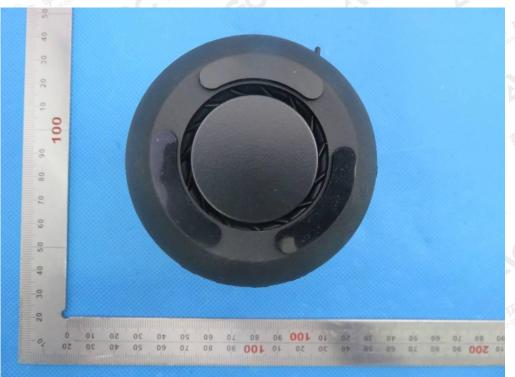
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APPENDIX B: PHOTOGRAPHS OF EUT

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

100 50 OL 08 00 10 30 07 05 09 01 02 0 01 50 30 09 09 0,2 0.8 06 001 08 0\$

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VIEW OF EUT (PORT)



OPEN VIEW OF EUT



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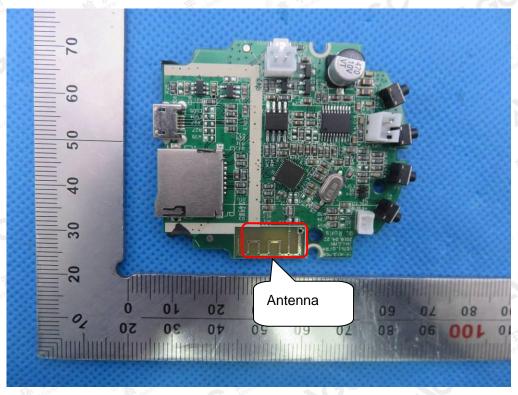


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VIEW OF BATTERY

M2T 523450/1000mAh 3.7Wh 2018 04 23

INTERNAL VIEW OF EUT-1



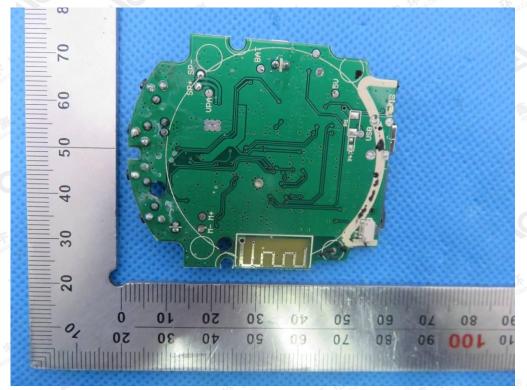
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



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VIEW OF ADAPTER (AE)



The adapter was supplied by AGC ----END OF REPORT----

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