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FCC Test Report

Report No.: AGC00275180602FE03

FCC ID	: JFZSP60BT	
APPLICATION PURPOSE	: Original Equipment	
PRODUCT DESIGNATION	: BLUETOOTH SPEAKER	
BRAND NAME	: audio-technica	
MODEL NAME	: AT-SP60BT	
CLIENT	: Audio-Technica Corporation	
DATE OF ISSUE	: Jun. 20, 2018	
STANDARD(S) TEST PROCEDURE(S)	: FCC Part 15 Subpart C Section 15.249	
REPORT VERSION	: V1.0	
	Stor Vorriginance	

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jun. 20, 2018	Valid	Initial release

Report Revise Record

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Applicant	Audio-Technica Corporation					
Address	2-46-1 Nishi-naruse, Machida, Tokyo 194-8666, Japan					
Manufacturer Shenzhen Jonter Digital Co., Ltd.						
Address Building 4, Jinfo Industrial Park, Hezhou Village, Xixiang Town, Baoan Distric Shenzhen, China						
Product Designation	BLUETOOTH SPEAKER					
Brand Name	audio-technica					
Test Model	AT-SP60BT					
Date of test	Jun. 06, 2018 to Jun. 16, 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

Harry Zhang

Henry Zhang(Zhang Zhuorui) Jun. 16, 2018

we chang

Reviewed By

Cool Cheng(Cheng Mengguo) Jun. 20, 2018

west in

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

Jun. 20, 2018

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2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following	bed as following	describe	EUT is	otion of	descript	r technical	A majo
----------------------------------------------------------------	------------------	----------	--------	----------	----------	-------------	--------

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	2.97dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2 • 5 5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Modulation	BR ⊠GFSK, EDR ⊠π/4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	6.0
Software Version	V12
Antenna Designation	PCB Antenna
Antenna Gain	1.2dBi
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		
NO	0	2402MHz		
The the second		2403MHz		
C Franklin a Global C C				
GC SCU	38	2440 MHz		
2400~2483.5MHz	39	2441 MHz		
The Compares Compares	40	2442 MHz		
accient SGC from S				
	77	2479 MHz		
The Hard	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 = \pm 3.2 dB

- Uncertainty of Radiated Emission below 1GHz, $Uc = \pm 3.9 \text{ dB}$

- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

NO.		TEST MODE	DESCRIPTION	N	
C The Indiana C	South of Cooler	Low cha	annel GFSK		
2 2	1 CO	Middle ch	annel GFSK	The states	to compliance
3	THE THE	High cha	annel GFSK	C Thestation of	
4 K 1	C The Mand Clarke Com	Low channe	el π /4-DQPSK	GO	
© 5 5 and Com	10 × 00	Middle chann	nel π /4-DQPSk	the march	本語
6		High channe	el π /4-DQPSK	Find Global Comme	Find Good
7	A marce O The France Count	Low char	nnel 8DPSK	<u> </u>	
8 S		Middle cha	annel 8DPSK		107
9		High chai	nnel 8DPSK	T.	al Compliance
10	A THE	BT Link w	vith charging	C Atlestation of C	C AND
11Eth Constant	F Franciscome	Свт	Г Link	3	

4. DESCRIPTION OF TEST MODES

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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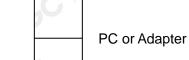
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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

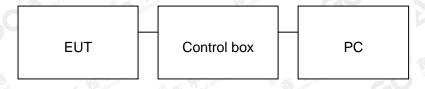
Configure 1: (Normal hopping)

EUT



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

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
1	BLUETOOTH	audio-technica	AT-SP60BT	EUT
2	Battery	HKD C	HKD-22	Accessory
3	PC PC	APPLE	A1465	A.E
4	Control box	SERIAL	N/A	A.E
5	Adapter	IPRO	NTR-S01	A.E
6	USB Cable	N/A	1m unshielded	A.E
7	USB Cable	N/A	0.6m unshielded	Accessory
8	AUX in Cable	N/A	0.6m unshielded	Accessory
9	IPOD	APPLE	A1367	A.E
10	TF Card	Kingston	SDA10/16GB	A.E
11	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, 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 ^M	Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	МХТ	RS1	R005	June 6, 2018	June 5, 2019
Radiation Cable 2	МХТ	RS1	R006	June 6, 2018	June 5, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	20	Jun.20, 2017	Jun.19, 2018

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9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50 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	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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Setting
9KHz~150KHz/RB 200Hz for QP
150KHz~30MHz/RB 9KHz for QP
30MHz~1000MHz/RB 120KHz for QP
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
Setting
9KHz~150KHz/RB 200Hz for QP
150KHz~30MHz/RB 9KHz for QP
30MHz~1000MHz/RB 120KHz for QP

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

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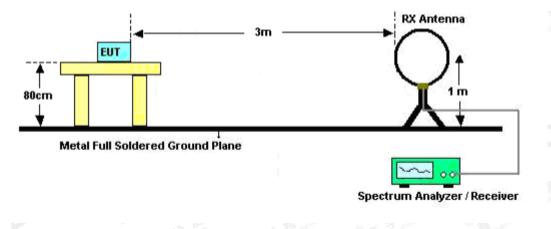




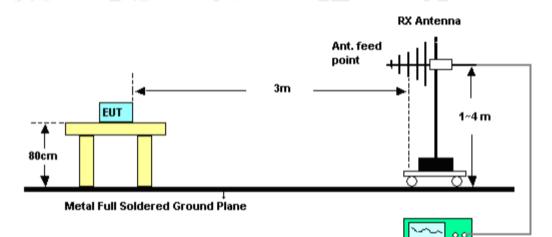
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9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



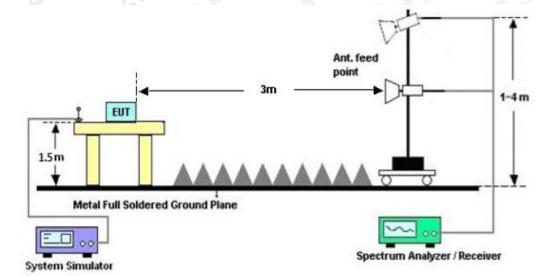
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Spectrum Analyzer / Receiver



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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9.4. TEST RESULT FOR BR/EDR (Worst modulation: 8DPSK)

RADIATED EMISSION BELOW 30MHz

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

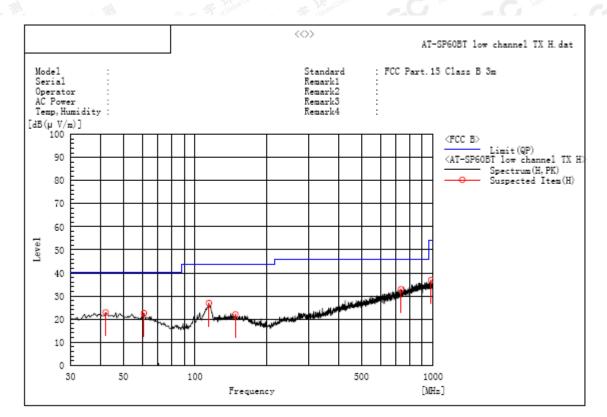
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RADIATED EMISSION BELOW 1GHz

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

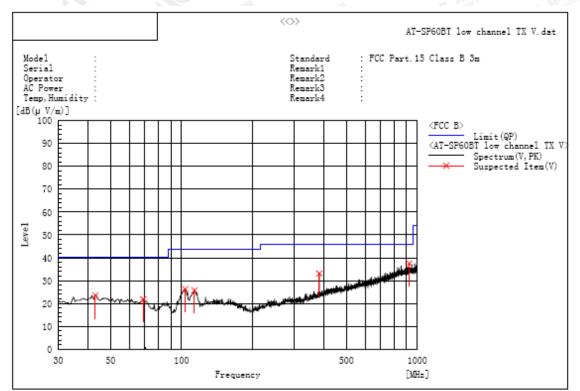


A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
42.125	Н	5.5	17.4	22.9	40.0	17.1	Pass	150.0	252.9
61.040	Н	6.5	16.1	22.6	40.0	17.4	Pass	100.0	93.7
114.390	н	12.0	14.9	26.9	43.5	16.6	Pass	200.0	41.2
147.855	Н	5.5	16.6	22.1	43.5	21.4	Pass	150.0	288.4
733.250	Н	5.8	27.1	32.9	46.0	13.1	Pass	200.0	289.5
981.570	Н	6.0	30.9	36.9	54.0	17.1	Pass	200.0	289.5

RESULT: PASS

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

A. Suspected List:

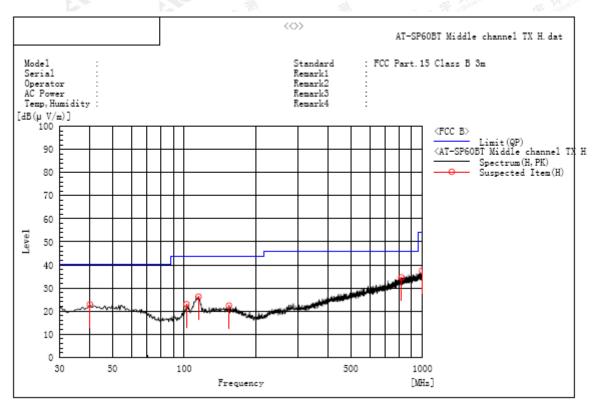
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
43.095	v	6.1	17.4	23.5	40.0	16.5	Pass	100.0	106.9
68.800	v	7.0	14.8	21.8	40.0	18.2	Pass	100.0	287.2
103.720	v	12.4	13.9	26.3	43.5	17.2	Pass	100.0	287.2
113.420	v	10.9	14.8	25.7	43.5	17.8	Pass	150.0	323.2
384.050	v	12.9	20.2	33.1	46.0	12.9	Pass	100.0	70.3
922.400	v	7.1	30.4	37.5	46.0	8.5	Pass	150.0	249.9

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.

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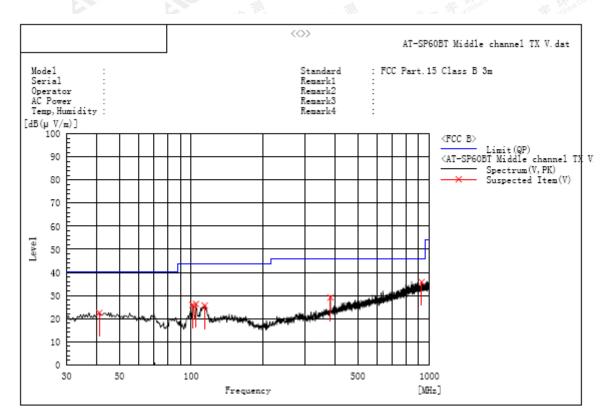
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	Polarization Reading dB(uV)		Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
40.185	н	5.4	17.4	22.8	40.0	17.2	Pass	200.0	92.1
102.265	н	9.2	13.7	22.9	43.5	20.6	Pass	150.0	251.2
114.875	н	11.2	15.0	26.2	43.5	17.3	Pass	200.0	92.1
154.160	Н	5.7	16.6	22.3	43.5	21.2	Pass	100.0	1.4
816.185	Н	5.6	29.0	34.6	46.0	11.4	Pass	100.0	109.6
996.605	н	6.5	31.1	37.6	54.0	16.4	Pass	200.0	92.1

RESULT: PASS

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
41.155	v	5.1	17.4	22.5	40.0	17.5	Pass	150.0	178.5
101.295	v	12.3	13.6	25.9	43.5	17.6	Pass	200.0	93.7
104.690	v	12.3	14.0	26.3	43.5	17.2	Pass	200.0	93.7
113.905	v	10.7	14.9	25.6	43.5	17.9	Pass	150.0	287.9
384.050	v	8.9	20.2	29.1	46.0	16.9	Pass	150.0	251.8
927.250	v	5.5	30.4	35.9	46.0	10.1	Pass	150.0	214.6

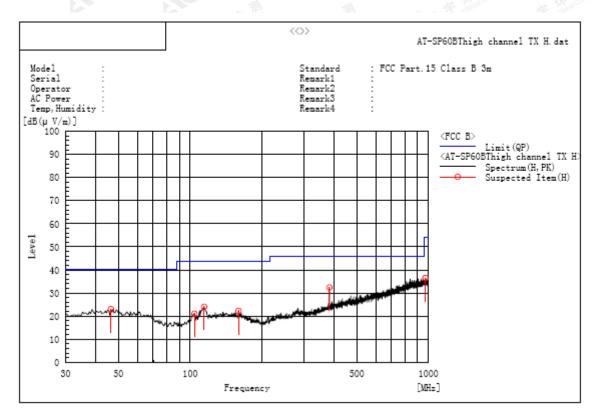
RESULT: PASS

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

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

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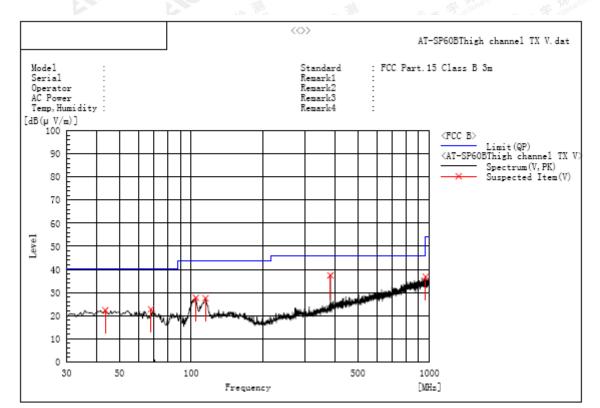
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

A. Suspected List:

Frequency MHz	Polarization	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
46.490	н	5.8	17.2	23.0	40.0	17.0	Pass	200.0	120.6
104.205	Н	7.1	13.9	21.0	43.5	22.5	Pass	100.0	92.6
114.390	н	9.1	14.9	24.0	43.5	19.5	Pass	100.0	56.5
159.495	Н	5.6	16.6	22.2	43.5	21.3	Pass	150.0	288.4
384.050	Н	12.2	20.2	32.4	46.0	13.6	Pass	150.0	161.1
970.415	н	5.7	30.8	36.5	54.0	17.5	Pass	100.0	92.6

RESULT: PASS

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB Pass/Fail		Height cm	Angle deg
43.580	v	4.9	17.4	22.3	40.0	17.7	Pass	150.0	143.7
67.830	v	7.7	15.0	22.7	40.0	17.3	Pass	100.0	93.5
104.690	v	13.7	14.0	27.7	43.5	15.8	Pass	150.0	251.3
114.875	v	12.5	15.0	27.5	43.5	16.0	Pass	100.0	93.5
384.050	v	17.2	20.2	37.4	46.0	8.6	Pass	150.0	33.8
963.140	v	6.1	30.8	36.9	54.0	17.1	Pass	150.0	287.9

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.

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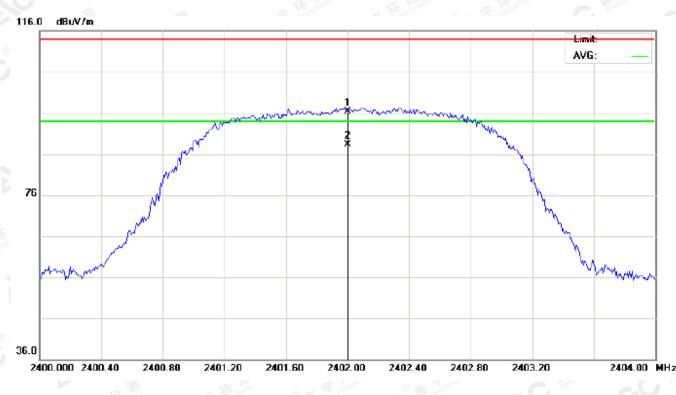
RADIATED EMISSION ABOVE 1GHz

FOR BR/EDR

(Worst modulation: 8DPSK)

For Fundamental

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



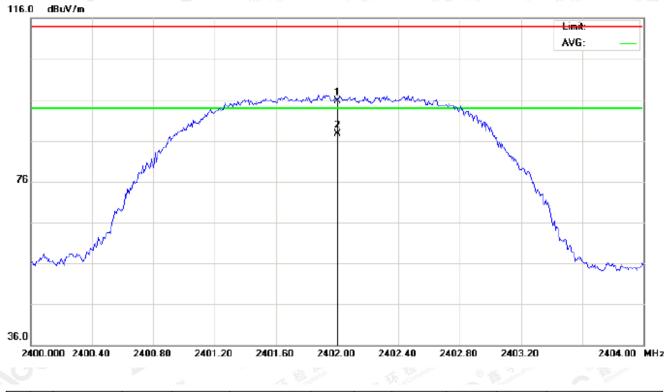
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	85.91	10.32	96.23	114.00	-17.77	peak			
2	*	2402.000	77.97	10.32	88.29	94.00	-5.71	AVG	100	325	

RESULT: PASS

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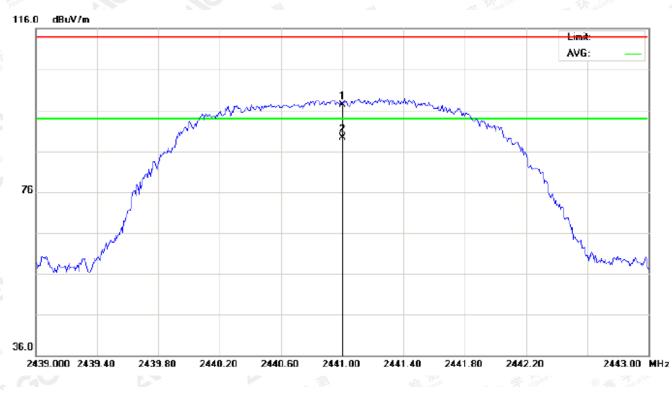


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
	•	MHz	dBu∨	dB/m	dBuV/m	dBu∨/m	dB		cm	degree		
1		2402.000	85.46	10.32	95.78	114.00	-18.22	peak				
2	*	2402.000	77.47	10.32	87.79	94.00	-6.21	AVG	100	110		3

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		2441.000	86.95	10.36	97.31	114.00	-16.69	peak			
2	*	2441.000	79.01	10.36	89.37	94.00	-4.63	AVG	100	321	

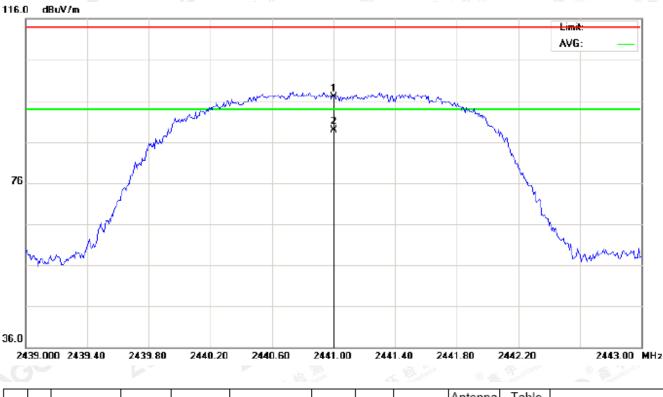
RESULT: PASS

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
	-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree		
1		2441.000	86.48	10.36	96.84	114.00	-17.16	peak				NN
2	*	2441.000	78.47	10.36	88.83	94.00	-5.17	AVG	100	117		3

RESULT: PASS

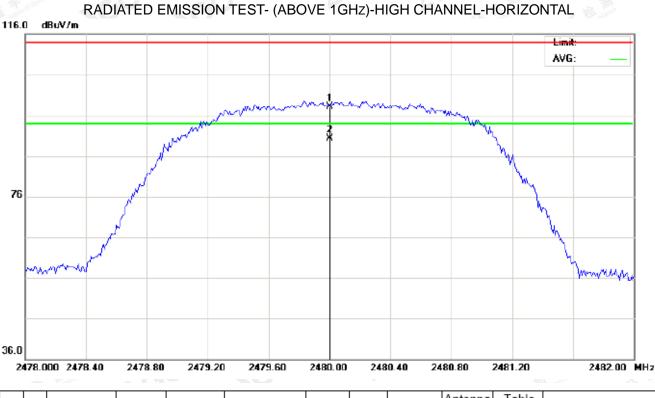
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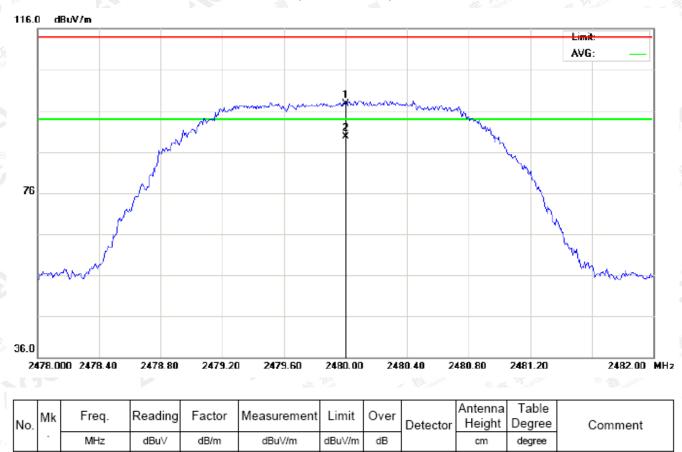


1	٩o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		-	MHz	dBu∨	dB/m	dBu∀/m	dBu∨/m	dB		cm	degree	
Γ	1		2480.000	87.76	10.41	98.17	114.00	-15.83	peak			
	2	*	2480.000	79.82	10.41	90.23	94.00	-3.77	AVG	100	324	

RESULT: PASS

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

RES	ULT:	PASS

1

2

2480.000

2480.000

87.29

79.30

10.41

10.41

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

97.70

89.71

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

-16.30

-4.29

peak

AVG

100

112

114.00

94.00

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Field strength of the fundamental signal

3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	85.91	10.32	96.23	114	-17.77	Horizontal	
2402	85.46	10.32	95.78	114	-18.22	Vertical	
2441	86.95	10.36	97.31	114 🐋	-16.69	Horizontal	
2441	86.48	10.36	96.84	114	-17.16	Vertical	
2480	87.76	10.41	98.17	114	-15.83	Horizontal	
2480	87.29	10.41	97.70	114	-16.30	Vertical	

Average value

Frequency	Reading Level	Factor I Measurement I I		Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	77.97	10.32	88.29	94	-5.71	Horizontal	
2402	77.47	10.32	87.79	94	-6.21	Vertical	
2441	79.01	10.36	89.37	94	-4.63	Horizontal	
2441	78.47	10.36	88.83	94	-5.17	Vertical	
2480	79.82	10.41	90.23	94	-3.77	Horizontal	
2480	79.30	10.41	89.71	94	-4.29	Vertical	

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2Mbps Result:

Peak value

Frequency	Reading Level	Factor Measureme		Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	85.49	10.32	95.81	114	-18.19	Horizontal	
2402	84.97	10.32	95.29	114	-18.71	Vertical	
2441	86.50	10.36	96.86	114	-17.14	Horizontal	
2441	86.05	10.36	96.41	114	-17.59	Vertical	
2480	87.28	10.41	97.69	114	-16.31	Horizontal	
2480	86.81	10.41	97.22	114	-16.78	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	77.53	10.32	87.85	94	-6.15	Horizontal
2402	77.07	10.32	87.39	94	-6.61	Vertical
2441	78.58	10.36	88.94	94	-5.06	Horizontal
2441	78.03	10.36	88.39	94	-5.61	Vertical
2480	79.33	10.41	89.74	94	-4.26	Horizontal
2480	78.84	10.41	89.25	94	-4.75	Vertical

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1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement Limit		Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	85.08	10.32	95.40	114	-18.60	Horizontal	
2402	84.57	10.32	94.89	114	-19.11	Vertical	
2441	86.09	10.36	96.45	114	-17.55	Horizontal	
2441	85.56	10.36	95.92	114	-18.08	Vertical	
2480	86.79	10.41	97.20	114	-16.80	Horizontal	
2480	86.40	10.41	96.81	114	-17.19	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	77.04	10.32	87.36	94	-6.64	Horizontal	
2402	76.66	10.32	86.98	94	-7.02	Vertical	
2441	78.12	10.36	88.48	94	-5.52	Horizontal	
2441	77.57	10.36	87.93	94	-6.07	Vertical	
2480	78.91	10.41	89.32	94	-4.68	Horizontal	
2480	78.38	10.41	88.79	94	-5.21	Vertical	

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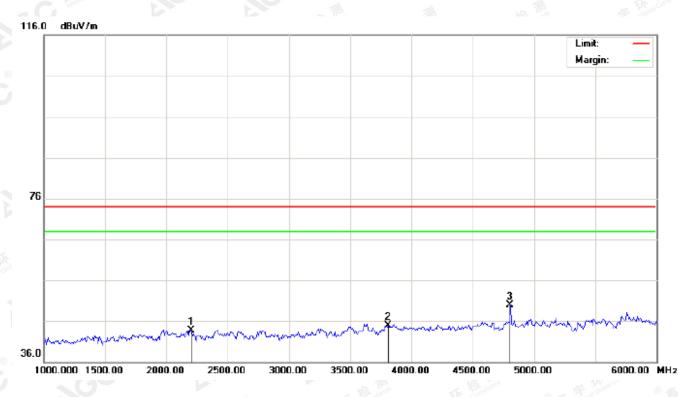
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FOR BR/EDR

(Worst modulation: 8DPSK)

For Harmonics

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	dBuV/m	dB		cm	degree	
1		2200.000	33.65	10.10	43.75	74.00	-30.25	peak			
2		3808.333	30.94	14.01	44.95	74.00	-29.05	peak			
3	*	4804.000	42.21	7.69	49.90	74.00	-24.10	peak			

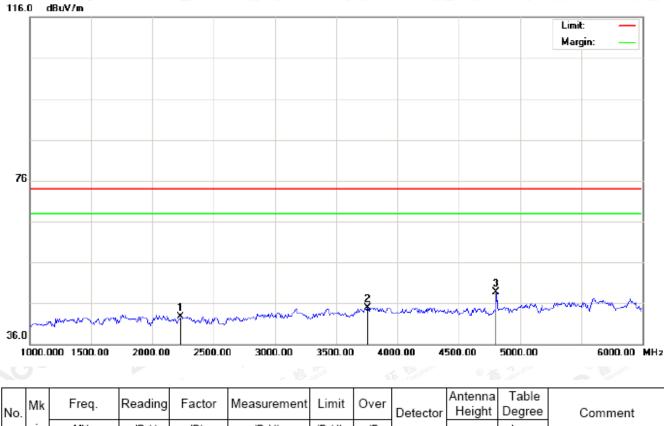
RESULT: PASS

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2233.333	32.55	10.14	42.69	74.00	-31.31	peak			
2		3758.333	31.21	13.70	44.91	74.00	-29.09	peak			
3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

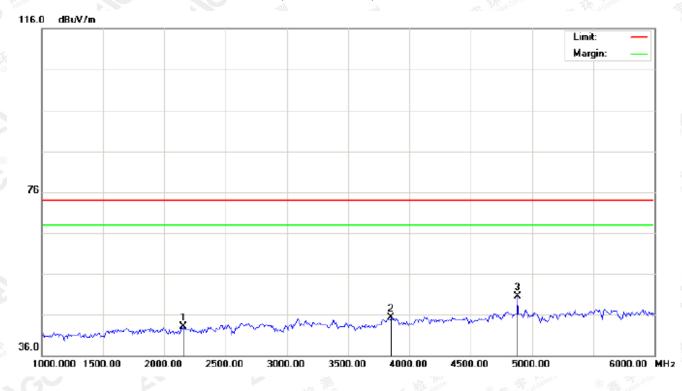
RESULT: PASS

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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	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2158.333	33.08	10.05	43.13	74.00	-30.87	peak			
2		3850.000	31.03	14.27	45.30	74.00	-28.70	peak			
3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

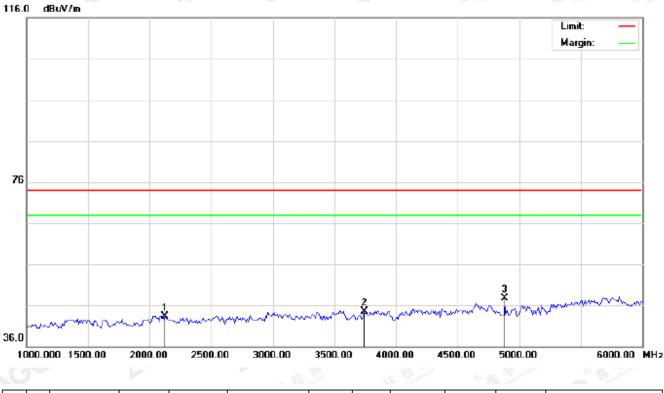
RESULT: PASS

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

No.	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		2125.000	33.23	10.02	43.25	74.00	-30.75	peak			
2		3741.667	30.93	13.60	44.53	74.00	-29.47	peak			
3	*	4882.000	39.89	7.89	47.78	74.00	-26.22	peak			

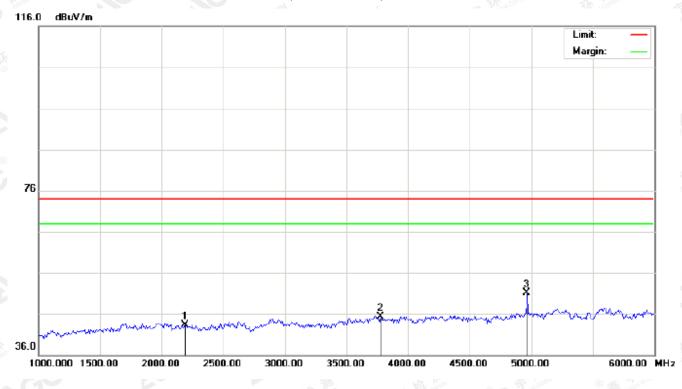
RESULT: PASS

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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
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2191.667	33.11	10.09	43.20	74.00	-30.80	peak			
2		3775.000	31.57	13.80	45.37	74.00	-28.63	peak			
3	*	4960.000	43.10	8.09	51.19	74.00	-22.81	peak			

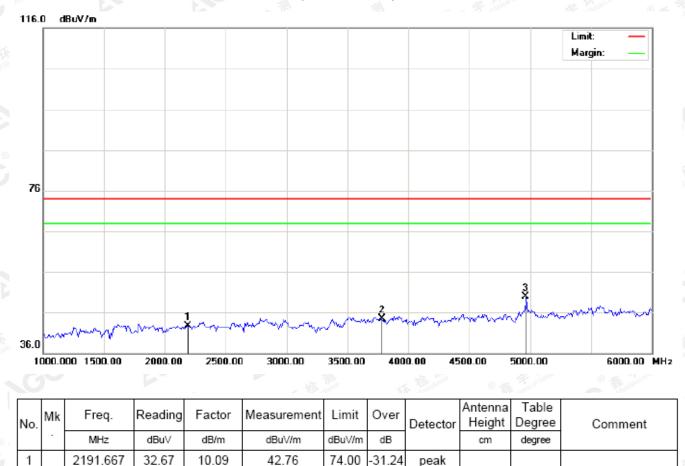
RESULT: PASS

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

RESULT: PASS

3783.333

4960.000

30.63

41.91

2

3

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

13.86

8.09

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

44.49

50.00

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

74.00

74.00

-29.51

-24.00

peak

peak

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10. BAND EDGE EMISSION

10.1. MEASUREMENT PROCEDURE

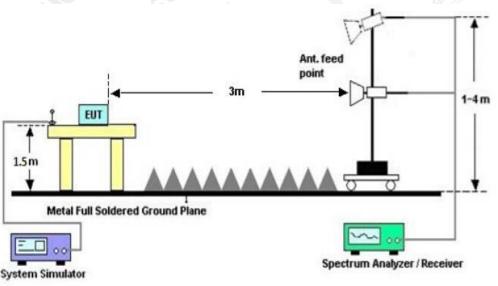
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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(MH	z)
2200	The The second	not C Stratuto	2405	SC -
2478	Global C	GO	2500	
Alle				2000

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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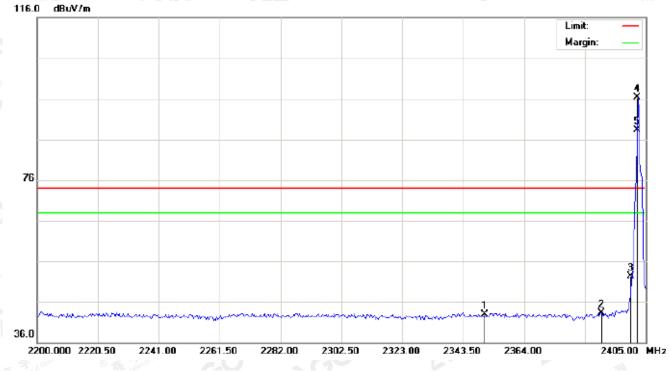


10.3 RADIATED TEST RESULT

FOR BR/EDR

(Worst modulation: 8DPSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



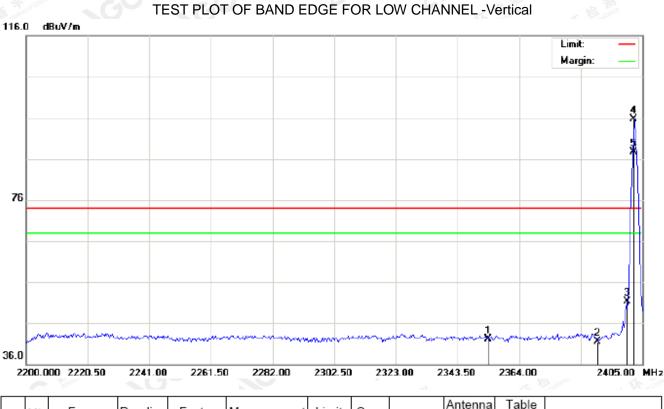
N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		•	MHz	dBu∀	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
	1		2350.675	32.69	10.27	42.96	74.00	-31.04	peak			
	2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
	3		2400.000	41.97	10.32	52.29	74.00	-21.71	peak			
	4	*	2402.000	85.94	10.32	96.26	74.00	22.26	peak			
	5	х	2402.000	78.00	10.32	88.32	74.00	14.32	AVG	100	151	

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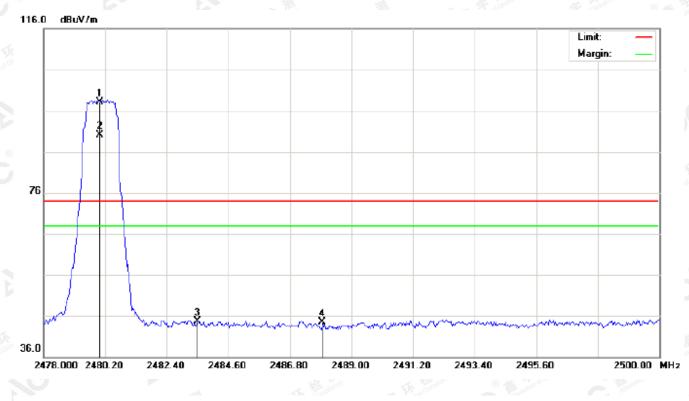
N	о.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
[1		2353.750	31.83	10.27	42.10	74.00	-31.90	peak			
	2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
,	3		2400.000	41.06	10.32	51.38	74.00	-22.62	peak			
4	4	*	2402.000	85.48	10.32	95.80	74.00	21.80	peak			
!	5	Х	2402.000	77.43	10.32	87.75	74.00	13.75	AVG	100	323	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

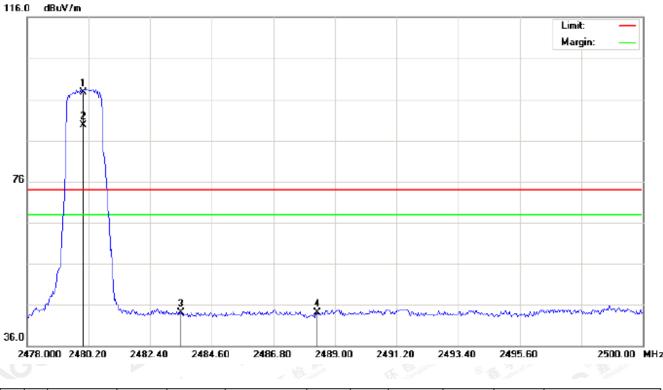
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1	*	2480.000	87.79	10.41	98.20	74.00	24.20	peak			
Γ	2	Х	2480.000	79.79	10.41	90.20	74.00	16.20	AVG	100	153	
Γ	3		2483.500	34.19	10.41	44.60	74.00	-29.40	peak			
	4		2487.973	34.13	10.42	44.55	74.00	-29.45	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1	*	2480.000	87.32	10.41	97.73	74.00	23.73	peak			
2	Х	2480.000	79.27	10.41	89.68	74.00	15.68	AVG	100	326	
3		2483.500	33.76	10.41	44.17	74.00	-29.83	peak			
4		2488.377	33.71	10.42	44.13	74.00	-29.87	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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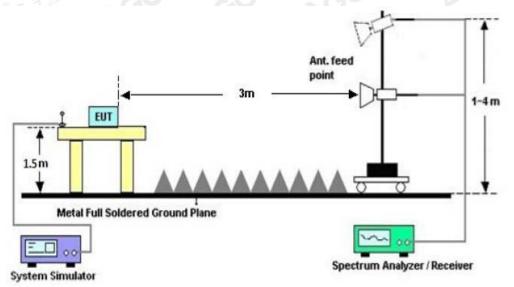
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11. 20DB BANDWIDTH

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	
		Measure	ement Result	
Applicable Limits		Test Data (MHz)		Decult
		99%OBW (MHz)	-20dB BW(MHz)	Result
The Constant of American	Low Channel	0.944	1.083	PASS
N/A	Middle Channel	0.940	1.078	PASS
	High Channel	0.956	1.087	PASS

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

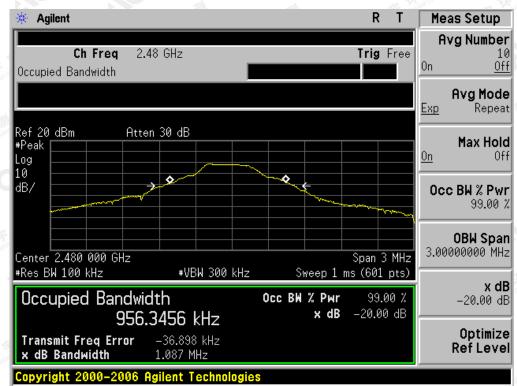
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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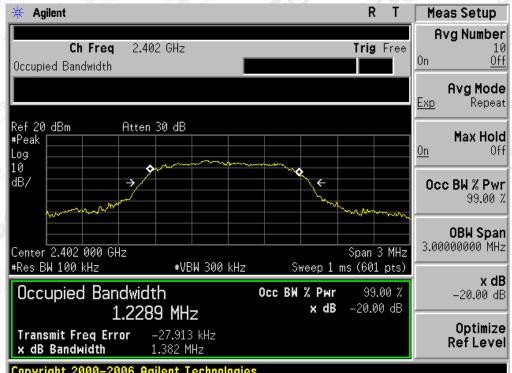
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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BLUET	DOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Dec. K						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The the and the the second	Low Channel	1.229	1.382	PASS				
N/A	Middle Channel	1.231	1.393	PASS				
	High Channel	1.234	1.377	PASS				
		Ilin	M M Con	obu Alu				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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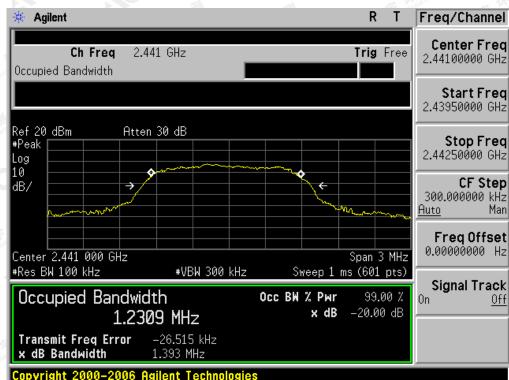
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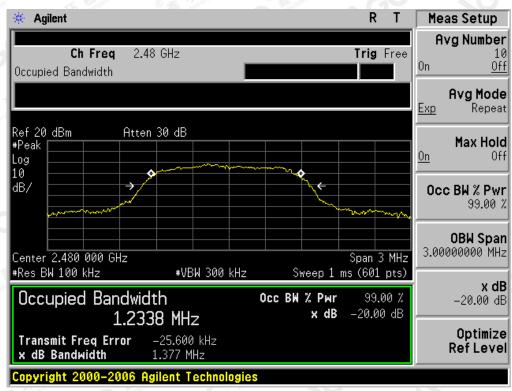
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUET	OOTH 3MBPS LIN	ITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits								
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The the man	Low Channel	1.232	1.395	PASS				
N/A	Middle Channel	1.232	1.400	PASS				
	High Channel	1.236	1.386	PASS				

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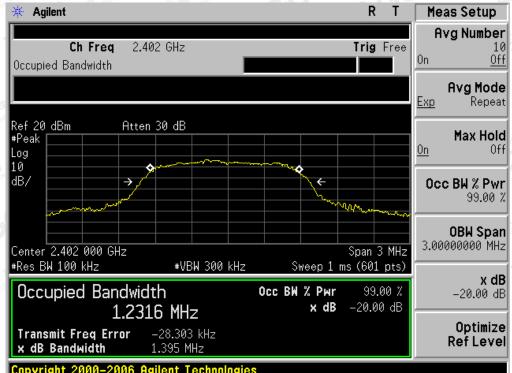
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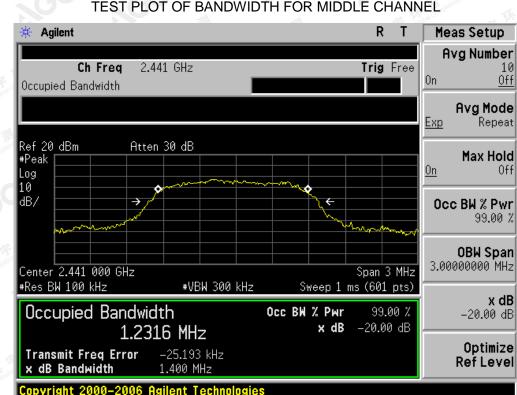
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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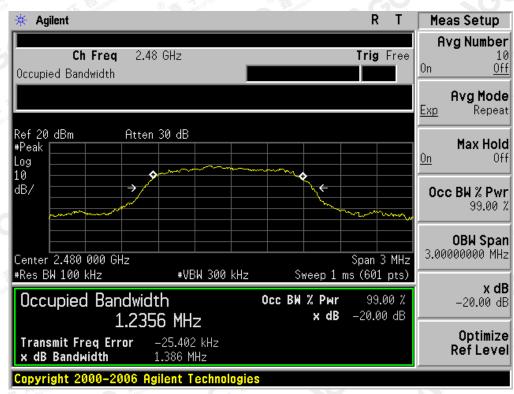




TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

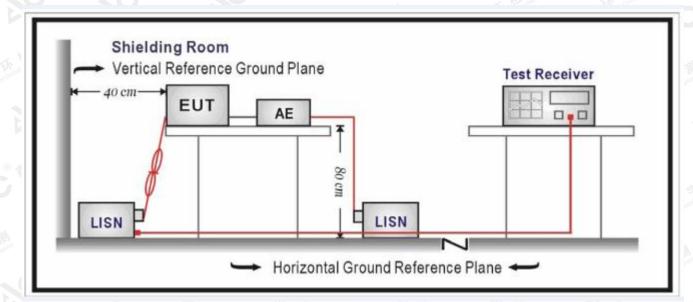
Francisco	Maximum RF	Line Voltage
Frequency	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

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.
- 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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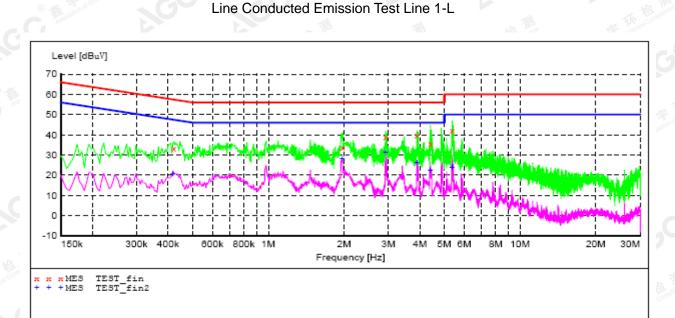
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.422000	33.10	10.1	57	24.3	-	L1	FLO
1.974000	33.50	10.2	56	22.5		L1	FLO
2.922000	39.00	9.9	56	17.0		L1	FLO
3.890000	39.60	10.1	56	16.4	QP	L1	FLO
4.410000	35.40	10.2	56	20.6	QP	L1	FLO
5.374000	42.20	10.3	60	17.8	QP	L1	FLO

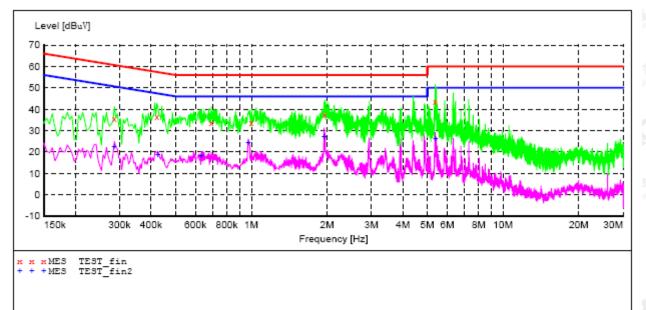
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.418000 1.966000 2.922000 3.890000 4.398000 5.370000	20.60 28.30 31.30 26.00 22.40 23.70	10.1 10.2 9.9 10.1 10.2 10.3	48 46 46 46 46 50	17.7 14.7 20.0 23.6	AV AV 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
0.286000 0.422000 0.694000 1.002000 1.958000 5.374000	35.40 36.50 33.70 33.50 37.50 43.30	10.1 10.1 10.2 10.2 10.3	61 57 56 56 56 60	25.2 20.9 22.3 22.5 18.5 16.7	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
0.286000	22.50	10.1	51		AV	Ν	FLO
0.426000	18.50	10.1	47	28.8	AV	N	FLO
0.634000	18.10	10.1	46	27.9	AV	N	FLO
0.974000	24.40	10.2	46	21.6	AV	N	FLO
1.946000	27.00	10.2	46	19.0	AV	N	FLO
5.390000	26.20	10.3	50	23.8	AV	N	FLO

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



FCC RADIATED EMISSION TEST SETUP

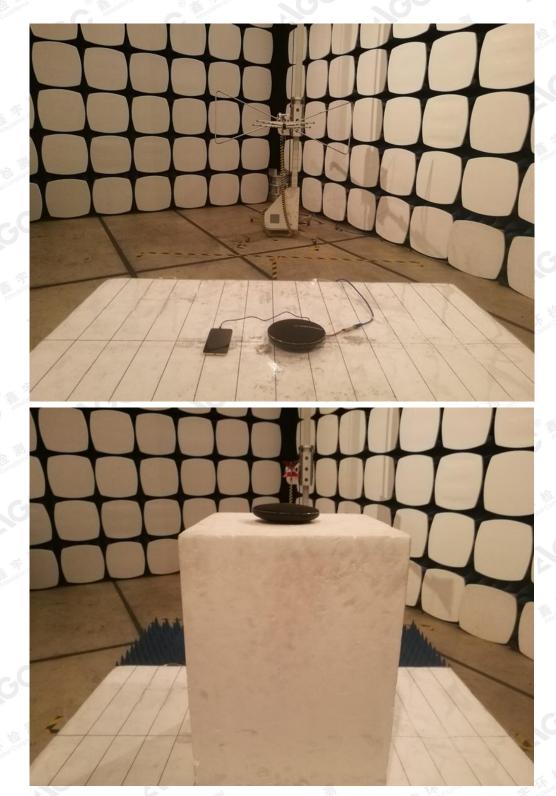


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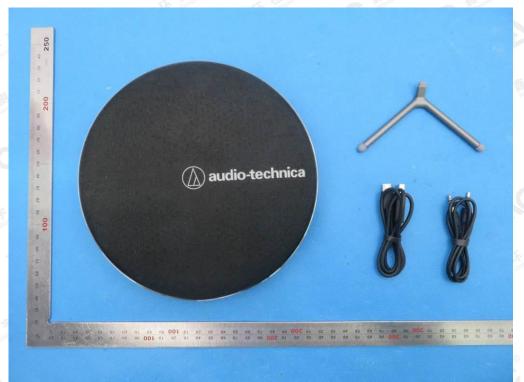


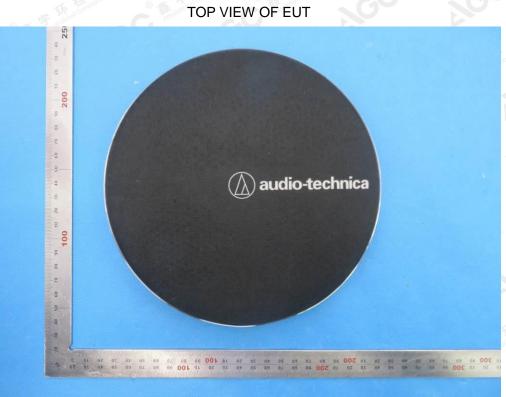


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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT





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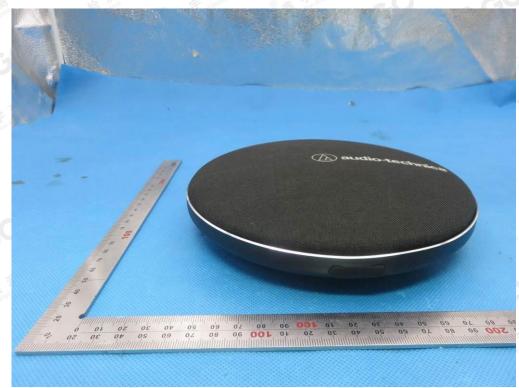


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BOTTOM VIEW OF EUT



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)

DC 2A

XUA

TF

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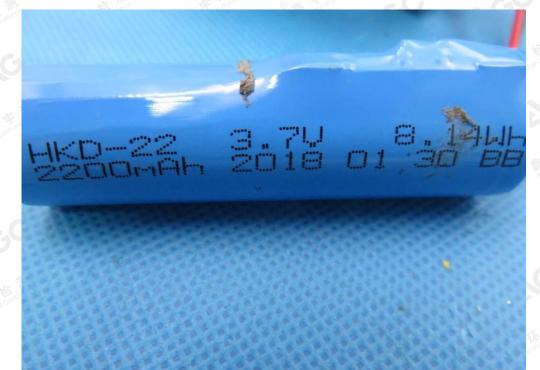


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OPEN VIEW OF EUT



VIEW OF BATTERY

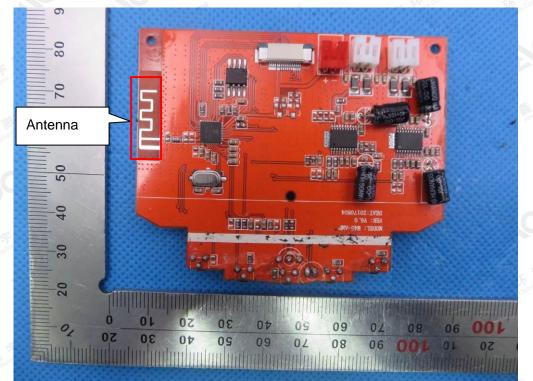


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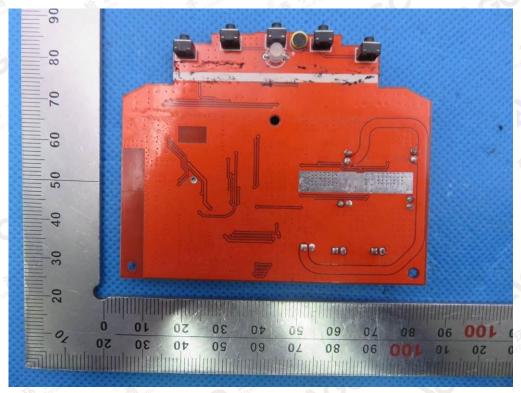


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INTERNAL VIEW OF EUT-1

INTERNAL VIEW OF EUT-2



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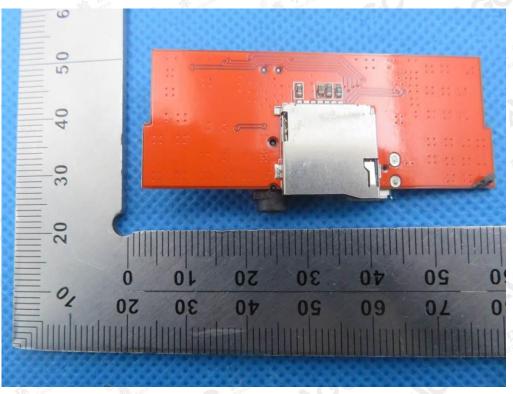


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0 0 5 100 4 1-1 30 0 N 09 0 09 01 50 08 30 0t 0

INTERNAL VIEW OF EUT-3

INTERNAL VIEW OF EUT-4

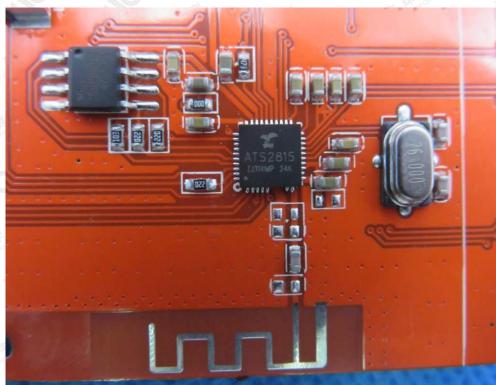


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INTERNAL VIEW OF EUT-5



VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

----END OF REPORT----

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