



TEST REPORT

FCC ID: 2APP6ARG-05

Product: Wireless Audio Transmission

Model No.: ARG-05

Additional Model: ARG-06, ARG-07, ARG-08, A4, ARC1

Trade Mark: AROMA

Report No.: TCT190226E014

Issued Date: Mar. 07, 2019

Issued for:

Aroma Music Co., Ltd.

Floor 6, Building 56 Baotian Industry Zone, Baotian 3 Road, Bao An District, Shenzhen 518102, China

Issued By:

Shenzhen Tongce Testing Lab.

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1. Test Certification

Report No.: TCT190226E014

Product:	Wireless Audio Transmission
Model No.:	ARG-05
Additional Model:	ARG-06, ARG-07, ARG-08, A4, ARC1
Trade Mark:	AROMA
Applicant:	Aroma Music Co., Ltd.
Address:	Floor 6, Building 56 Baotian Industry Zone, Baotian 3 Road, Bao An District, Shenzhen 518102, China
Manufacturer:	Aroma Music Co., Ltd.
Address:	Floor 6, Building 56 Baotian Industry Zone, Baotian 3 Road, Bao An District, Shenzhen 518102, China
Date of Test:	Feb. 27, 2019 - Mar. 06, 2019
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	Kerin Huang	Date:	Mar. 06, 2019
	Kevin Huang		
Reviewed By:	Bery zhao	Date:	Mar. 07, 2019
	Beryl Zhao		
Approved By:	Tomsin	Date:	Mar. 07, 2019
((0)	Tomoin	7	



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	N/A
Field Strength of Fundamental	§15.249 (a)	PASS
Spurious Emissions	§2.1053 §15.249 (a) (d)/ §15.209	PASS
Band Edge	§2.1053 §15.249 (d)/ §15.205	PASS
20dB Occupied Bandwidth	§2.1049 §15.215 (c)	PASS

Note:

- 1. Pass: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.





3. EUT Description

Product:	Wireless Audio Transmission
Model No.:	ARG-05
Additional Model:	ARG-06, ARG-07, ARG-08, A4, ARC1
Trade Mark:	AROMA
Hardware Version:	20181220
Software Version:	V1.0
Operation Frequency:	5820MHz
Number of Channel:	1
Modulation Technology:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	3.49dBi
Power Supply:	Rechargeable Li-ion Battery DC 3.7V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just appearances are different for the marketing requirement.

Operation Frequency Each of Channel

Channel	Frequency
1	5820MHz





TESTING CENTRE TECHNOLOGY Report No.: TCT190226E014

4. General Information

4.1. Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1 (6)	1 6	1	(3) 1	(C)

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.





5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2.Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,

Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. 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 %.

No.	Item	MU
9	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1GHz)	±3.92dB
5	All emissions, radiated(>1GHz)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%



6. Test Results and Measurement Data

6.1. Antenna Requirement

Standard requirement:

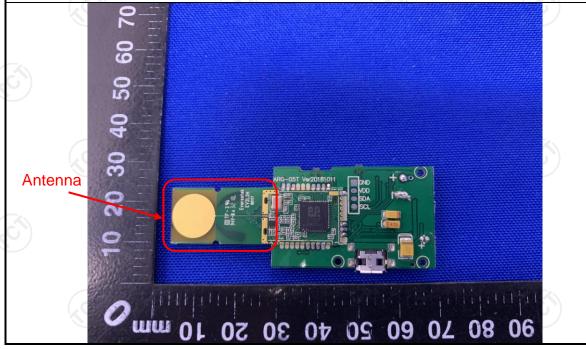
FCC Part15 C Section 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

E.U.T Antenna:

The EUT antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 3.49dBi.





6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207	60		
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz			
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto				
	Frequency range	Limit (dBuV)		
	(MHz)	Quasi-peak	Average		
Limits:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	Refere	nce Plane	1201		
Test Setup: Test Mode:	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
Test Mode.	Transmitting mode with		ata I ta di a sasta		
Test Procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 				
Test Result:	PASS				
Test Result.	1.7.66				



6.2.2. Test Instruments

Report No.: TCT190226E014

Conducted Emission Shielding Room Test Site (843)					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Test Receiver	R&S	ESPI	101402	Jul. 17, 2019	
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 20, 2019	
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 16, 2019	
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

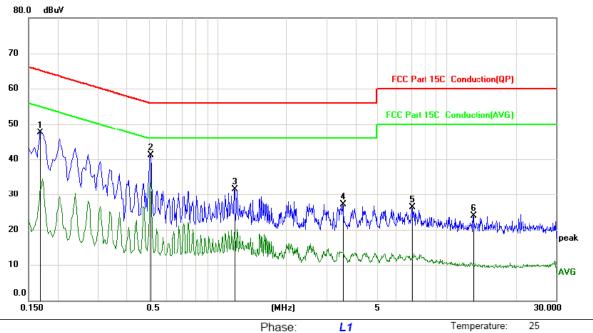




6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Limit: FCC Part 15C Conduction(QP)

Power:	Humidity:	55 %

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1680	37.29	10.18	47.47	65.06	-17.59	peak	
2 *	0.5100	30.96	10.23	41.19	56.00	-14.81	peak	
3	1.1849	21.33	10.25	31.58	56.00	-24.42	peak	
4	3.5205	16.80	10.31	27.11	56.00	-28.89	peak	
5	7.0575	15.93	10.41	26.34	60.00	-33.66	peak	
6	13.0335	13.36	10.52	23.88	60.00	-36.12	peak	

Note:

Site

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

Any value more than 10dB below limit have not been specifically reported.

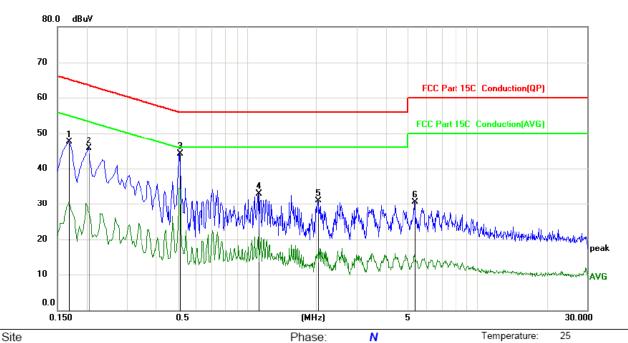
^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz



Humidity:



Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Limit: FCC Part 15C Conduction(QP) Power:

Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dΒ dBuV dBuV dΒ Detector Comment 0.1680 37.33 47.51 65.06 -17.55 10.18 1 peak 0.2040 35.48 10.19 45.67 63.45 -17.78 peak 3 0.5100 33.93 10.23 44.16 56.00 -11.84 peak 1.1174 22.66 10.25 32.91 56.00 -23.09 peak 5 2.0264 20.66 10.28 30.94 56.00 -25.06 peak 5.3520 20.20 10.36 30.56 60.00 -29.44 6 peak

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

Any value more than 10dB below limit have not been specifically reported.

^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



6.3. Radiated Emission Measurement

6.3.1. Test Specification

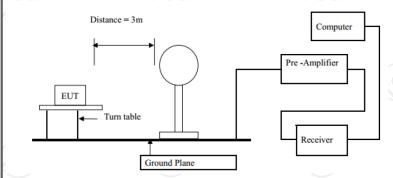
Test Requirement:	FCC Part15	C Section	า 15.209/	Part 2 J	Section 2.1053			
Test Method:	ANSI C63.10:2013							
Frequency Range:	9 kHz to 10 GHz							
Measurement Distance:	3 m							
Antenna Polarization:	Horizontal & Vertical							
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-peak Quasi-peak	RBW 200Hz 9kHz	VBW 1kHz 30kHz	Remark Quasi-peak Value Quasi-peak Value			
Receiver Setup:	30MHz 30MHz-1GHz	Quasi-peak Quasi-peak	120kHz	300kHz	Quasi-peak Value			
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Value			
Limit(Field strength of the fundamental signal):	Freque 5725Mhz- 5		Limit (dBu\ 94.	00	Remark Average Value Peak Value			
Limit(Spurious Emissions):	0.009-0 0.490-1 1.705 30MHz-8	0.490 1.705 -30 88MHz	Limit (dBuV/m @3m) 2400/F(KHz) 24000/F(KHz) 30 40.0 43.5		Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value			
	216MHz-9 960MHz Above	960MHz -1GHz	46.0 54.0 54.0 74.0		Quasi-peak Value Quasi-peak Value Average Value Peak Value			
Limit (band edge) :	bands, exceleast 50 dB general rad	ept for har below the diated em	monics, s level of this	shall be a he funda nits in	cified frequency attenuated by at amental or to the Section 15.209,			
Test Procedure:	 general radiated emission limits in Section 15.209, whichever is the lesser attenuation. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 							

TCT通测检测

Report No.: TCT190226E014

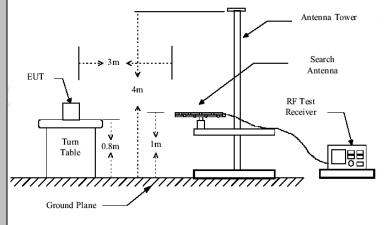
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

For radiated emissions below 30MHz



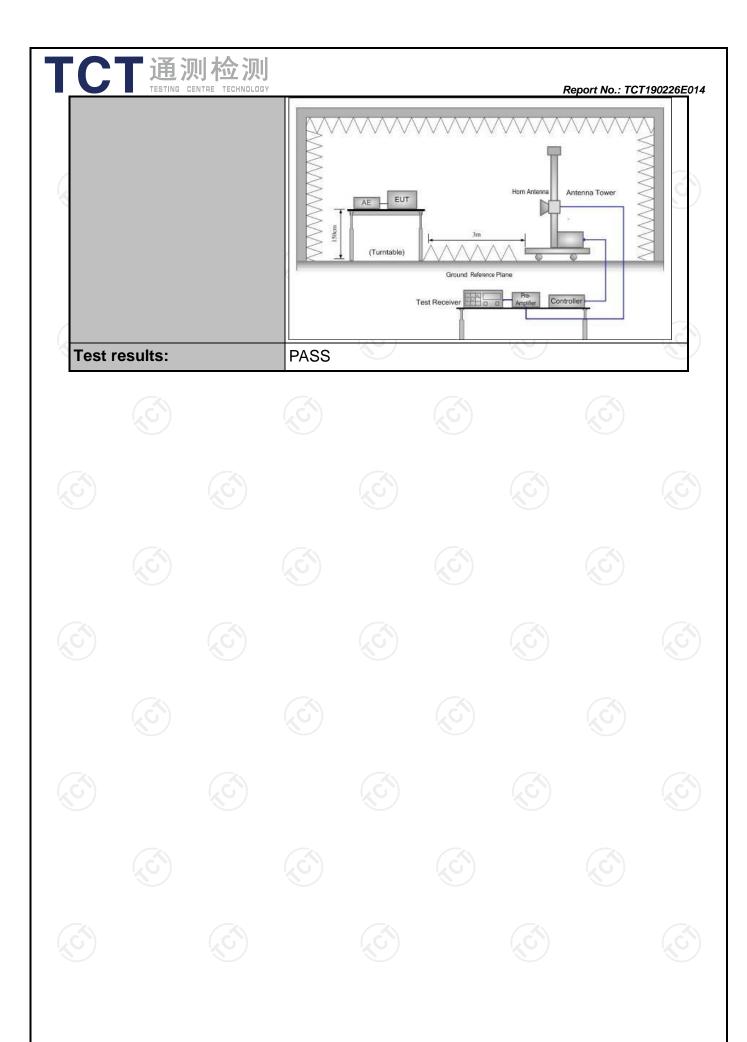
30MHz to 1GHz

Test setup:



Above 1GHz

(The diagram below shows the test setup that is utilized to make the measurements for emission from 1GHz to the tenth harmonic of the highest fundamental frequency or to 40GHz emissions, whichever is lower.)







6.3.2. Test Instruments

	Radiated Em	ission Test Site	e (966)		
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 17, 2019	
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 20, 2019	
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 16, 2019	
Pre-amplifier	HP	8447D	2727A05017	Sep. 16, 2019	
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 20, 2019	
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 02, 2019	
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Oct. 20, 2019	
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 16, 2019	
Antenna Mast	Keleto	RE-AM	N/A	N/A	
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 16, 2019	
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 16, 2019	
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 16, 2019	
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 16, 2019	
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.3.3. Test Data

Field Strength of Fundamental

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
5820	88.26(PK)	Н	114.0	-25.74
5820	75.63(PK)	Н	94.0	-18.37
5820	88.37(PK)	V	114.0	-25.63
5820	76.78(PK)	V	94.0	-17.22

Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
<u> </u>		
	(6)	(3) (3

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

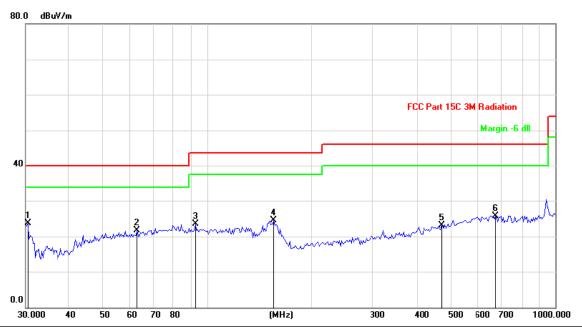
2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement



Frequency Range (30MHz-1GHz)

Report No.: TCT190226E014

Horizontal:



Site Polarization: Horizontal Temperature: 25 Limit: FCC Part 15C 3M Radiation Power: Humidity: 55 %

No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	*	30.4246	34.70	-11.00	23.70	40.00	-16.30	peak			
2		62.7432	35.01	-13.27	21.74	40.00	-18.26	peak			
3	3	92.3461	33.37	-9.84	23.53	43.50	-19.97	peak			
4		155.3305	40.50	-16.01	24.49	43.50	-19.01	peak			
5	,	471.4664	31.12	-7.92	23.20	46.00	-22.80	peak			
6	j	674.6767	31.31	-5.53	25.78	46.00	-20.22	peak			

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

Any value more than 10dB below limit have not been specifically reported.

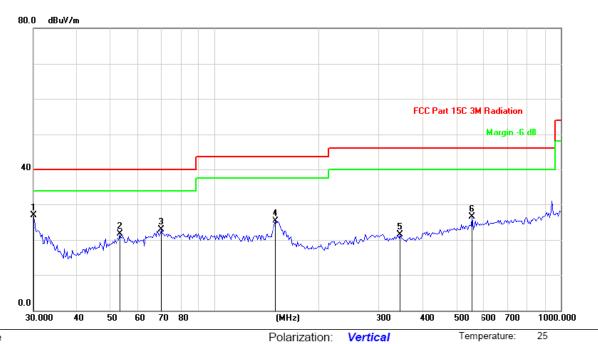
* is meaning the worst frequency has been tested in the frequency range 30MHz to 1000MHz



Humidity:

55 %

Vertical:



Site Polarization: Verill Limit: FCC Part 15C 3M Radiation Power:

Reading Table Correct Measure-Antenna Over No. Mk. Freq. Limit Level Factor ment Height Degree MHz dBuV dB dBuV/m dB/m dΒ Detector degree Comment 30.0000 38.00 -11.00 27.00 40.00 -13.00 peak 53.3793 32.44 -10.81 2 21.63 40.00 -18.37 peak -17.09 3 70.2095 38.56 -15.65 22.91 40.00 peak 4 149.9676 41.54 -16.2625.28 43.50 -18.22peak 343.6505 21.57 46.00 5 31.41 -9.84 -24.43 peak 554.1707 33.30 46.00 -19.59 6 -6.8926.41 peak

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

Any value more than 10dB below limit have not been specifically reported.

* is meaning the worst frequency has been tested in the frequency range 30MHz to 1000MHz



Above 1GHz

	ADOVE IGHZ								
	Channel: 5820MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11640	Н	41.47		8.02	49.49		74	54	-4.51
17460	Н	42.51		9.87	52.38		74	54	-1.62
11640	V	40.87		8.02	48.89		74	54	-5.11
17460	V	42.31	- -	9.87	52.18	<u></u>	74	54	-1.82
	/			/	'	7-		\ <u>-</u>	

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak)(dB μ V/m) AV limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.





Band Edge Requirement

•											
	Channel: 5820MHz										
Ant. Pol.	Peak	AV	Correction Emission Level			Peak limit	A\/ limit	Margin			
H/V	reading (dBµV)	reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV		(dBµV/m)	(dB)			
Н	41.31	/	8.87	50.18		74.00	54.00	-3.82			
))					
V	41.97		8.87	50.13	<u> </u>	74.00	54.00	-3.16			

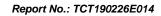
Note:

Frequency (MHz) 5885

5885

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak)(dB\mu V/m) AV limit (dB\mu V/m)$.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.







6.4.20dB Occupied Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)/ Part 2 J Section 2.1049
Test Method:	ANSI C63.10: 2013
Limit:	N/A
	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test results:	PASS

6.4.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	R&S	FSU	200054	Sep. 20, 2019			

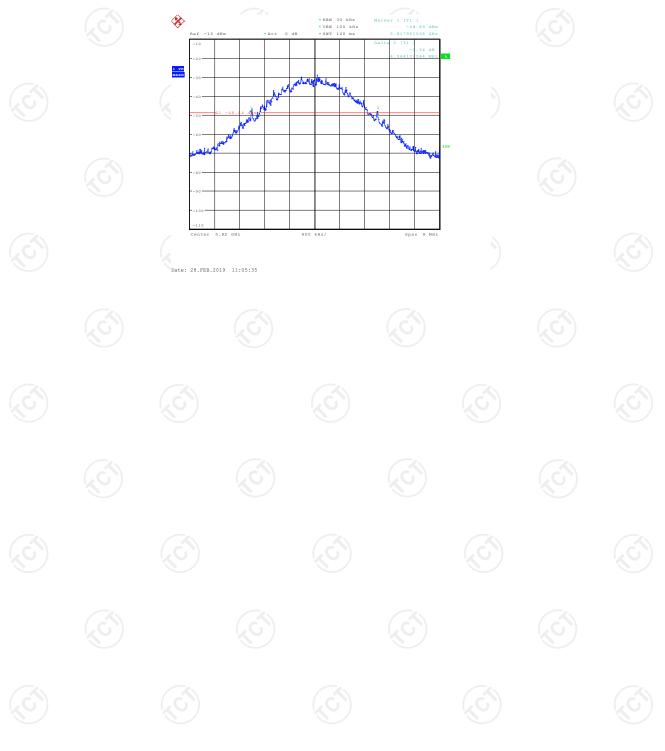
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.4.3. Test data

Test Frequency (MHz)	20dB Occupy Bandwidth (MHz)	Limit	Conclusion
5820	4.06	(0)	PASS

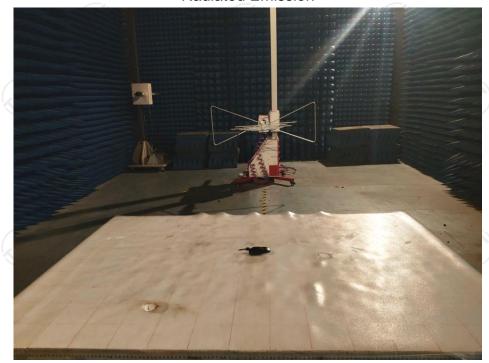
Test plots as follows:





Appendix A: Photographs of Test Setup Product: Wireless audio transmitter

Product: Wireless audio transmitter
Model: ARG-05
Radiated Emission





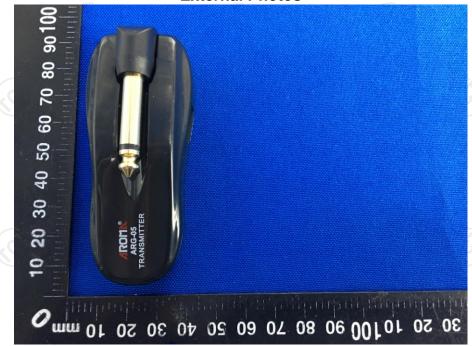






Appendix B: Photographs of EUT Product: Wireless audio transmitter

Model: ARG-05 External Photos





TCT通测检测
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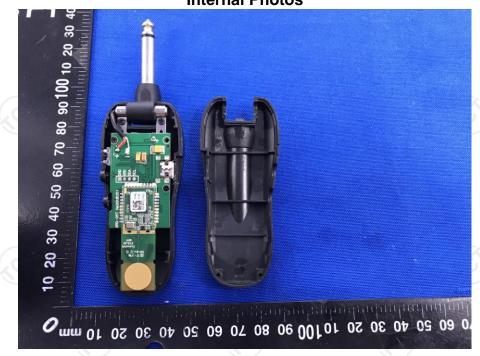


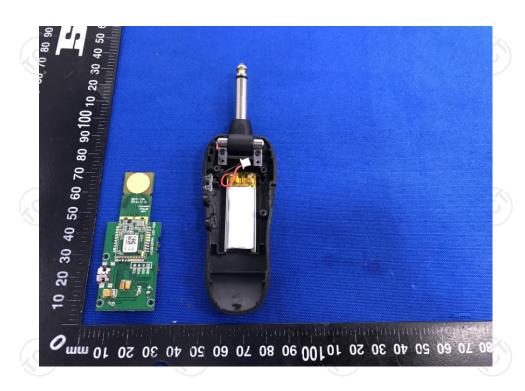




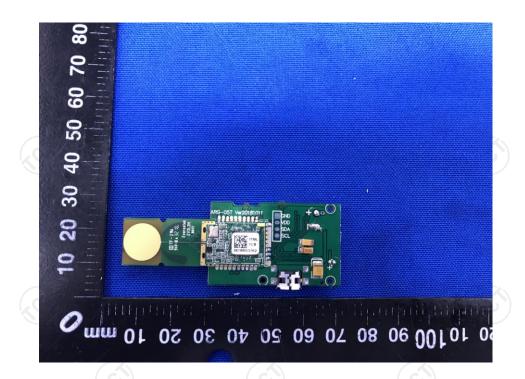


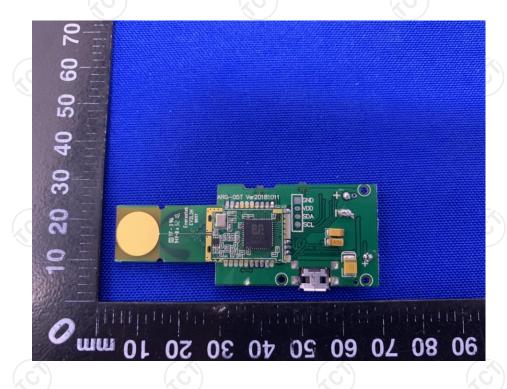
Product: Wireless audio transmitter
Model: ARG-05
Internal Photos







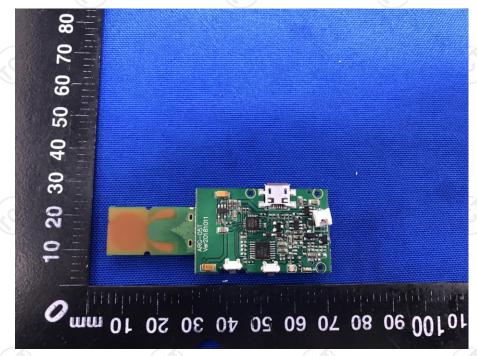








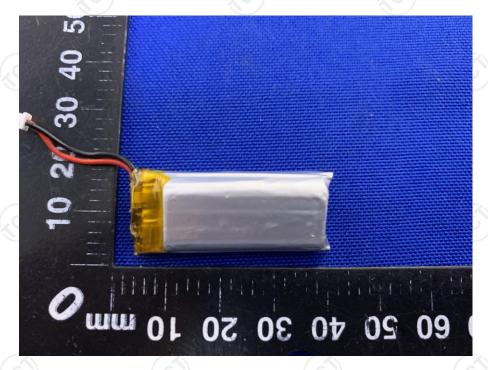




TCT通测检测 testing centre technology

Report No.: TCT190226E014





*****END OF REPORT****