

FCC Test Report

Report No.: AGC08218190701FE01

FCC ID : 2ASFYMR04DHAMBL0000

PRODUCT DESIGNATION: R.A.T. AIR

BRAND NAME : MAD CATZ

MODEL NAME : R.A.T. AIR

APPLICANT: MAD CATZ GLOBAL LIMITED

DATE OF ISSUE : Sep. 05, 2019

STANDARD(S) : FCC Part 18 Rules

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	01	Sep. 05, 2019	Valid	Initial release

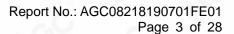




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1. VERIFICATION OF CONFORMITY

Applicant	MAD CATZ GLOBAL LIMITED			
Address	Office H on 22nd Floor, Kings Wing Plaza 2, No.1 on Kwan Street, Sha Tin, N.T., HK.Sha TinHong Kong			
manufacturer	Dexin Electronic Co., LTD			
Address	No.2, Jianye Second, ShiTan Pu Industrial, Tangxia Town, Dongguan Guangdong, China			
Factory	Dexin Electronic Co., LTD			
Address	No.2, Jianye Second, ShiTan Pu Industrial, Tangxia Town, Dongguan Guangdong, China			
Product Designation	R.A.T. AIR			
Brand Name	MAD CATZ			
Test Model	R.A.T. AIR			
Date of test	Aug. 16, 2019 to Sep. 04, 2019			
Deviation	None			
Condition of Test Sample	Normal			
Test Result	Pass			
Report Template	AGCRT-US-IT/AC			

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 18, the measurement procedure according to FCC/OET MP–5. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements. The test results of this report relate only to the tested sample identified in this report.

Prepared By

Draven Li
(Project Engineer)

Sep. 04, 2019

Max Zhang
(Reviewer)

Sep. 05, 2019

Forrest Lei
(Authorized Officer)

Sep. 05, 2019



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2. SYSTEM DESCRIPTION

	TEST MODE DESCRIPTION						
NO.	TEST MODE DESCRIPTION	WORST					
1	Charging mode	V					
Note: 1	. V means EMI worst mode.						
2	2. All the modes are tested, but only the worst case was recorded in t	his report.					

3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- 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





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4. PRODUCT INFORMATION

Housing Type	Plastic	10		5	8	0
Hardware Version	34			10°		5
Software Version	1.0.2.10	a.C	0			
Operation Frequency range	6.78MHz	10	10°	a.C	8	
Power Supply	DC 5V	@		10	10°	- (
Wireless Output Power	5W	60		®		10

I/O Port Information (⊠Applicable □Not Applicable)

I/O Port of EUT						
I/O Port Type	Number	Cable Description	Tested With			
Micro-USB	1	-G- ·	1			

Note:

- All the above "--" means that EUT has no cable.
 All the cables were provided by AGC Lab.

5. SUPPORT EQUIPMENT

Item	Equipment	Model No.	ID or Specification	Remark
1	R.A.T. AIR	R.A.T. AIR	R.A.T. AIR 2ASFYMR04DHAMBL0000	
2	PC	XIAOMI	N/A	Support
3	PC adapter	XIAOMI ADC6501TM	DC20V/3A	Support



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6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.12, 2019	Jun.11, 2020
LISN	R&S	ESH2-Z5	100086	Jun.12, 2019	Jun.11, 2020

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.12, 2019	Jun.11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.20, 2018	Dec.19, 2019
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.21, 2018	Sep.20, 2019
preamplifier	ChengYi	EMC184045SE	980508	Oct.31, 2018	Oct.30, 2019
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May17, 2019	May16, 2020
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.12, 2019	Jun.11, 2020
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.21, 2018	Sep.20, 2019





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7. TEST ITEMS AND THE RESULTS

Test item	Test Requirement	Test Method	Class/Severity	Result
Radiated Emission	§18.305(b)	FCC/OET MP-5	Any type	Pass
Conducted Emission	§18.307(a)	FCC/OET MP-5	Any type	Pass



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8. FCC LINE CONDUCTED EMISSION TEST

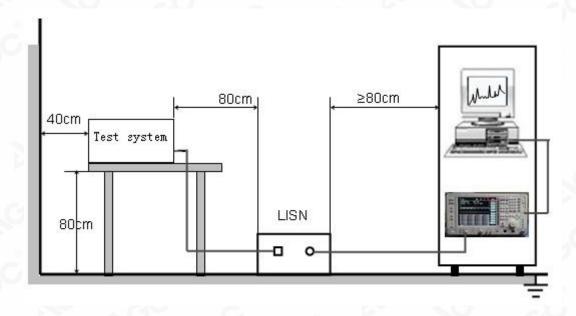
8.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	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 0.50MHz.

8.2. BLOCK DIAGRAM OF TEST SETUP





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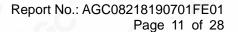


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8.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per FCC/OET MP-5 (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 FCC/OET MP-5.
- (3) All I/O cables were positioned to simulate typical actual usage as per FCC/OET MP-5.
- (4) The EUT received AC120V/60Hz power from a LISN.
- (5) The EUT 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.
- (6) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- (7) During the above scans, the emissions were maximized by cable manipulation.
- (8) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.
- (9) 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.

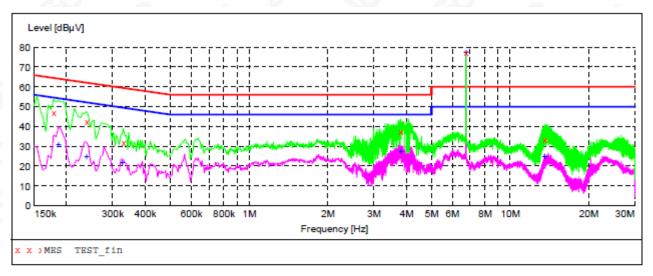






8.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT: "TEST fin"

8/26/2019 4: Frequency MHz	53PM Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.178000	47.00	10.9	65	17.6	QP	L1	FLO
0.238000	42.60	10.9	62	19.6	QP	L1	FLO
0.330000	32.00	10.7	60	27.5	QP	L1	FLO
3.790000	37.80	11.6	56	18.2	QP	L1	FLO
6.782000	77.30	11.7	60	-17.3	QP	L1	FLO
13.558000	33.70	12.1	60	26.3	QP	L1	FLO

MEASUREMENT RESULT: "TEST_fin2"

8/26/2019 4:	53PM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
0.186000	31.00	10.9	54	23.2	AV	L1	FLO
0.238000	25.10	10.9	52	27.1	AV	L1	FLO
0.326000	21.70	10.8	50	27.9	AV	L1	FLO
3.798000	27.50	11.6	46	18.5	AV	L1	FLO
6.782000	77.60	11.7	50	-27.6	AV	L1	FLO
13.558000	24.90	12.1	50	25.1	AV	L1	FLO

RESULT: PASS

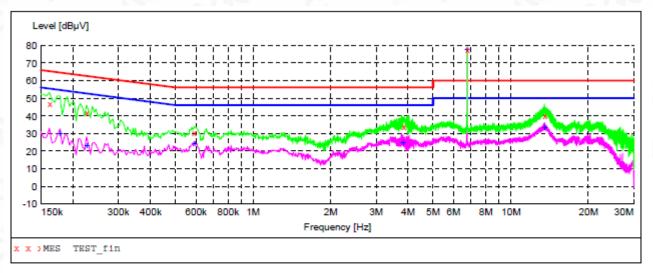


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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "TEST fin"

8/26/2019 4	:57PM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dΒμV	dB			
0.162000	47.30	10.8	65	18.1	QP	N	FLO
0.226000	41.60	10.9	63	21.0	QP	N	FLO
0.590000	30.80	10.8	56	25.2	QP	N	FLO
3.830000	34.00	11.6	56	22.0	QP	N	FLO
6.782000	77.60	11.7	60	-17.6	QP	N	FLO
13.518000	40.30	12.1	60	19.7	QP	N	FLO

MEASUREMENT RESULT: "TEST_fin2"

8/	26/2019 4:5	57PM						
	Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
	MHZ	αвμν	ub	αвμν	ub.			
	0.178000	29.90	10.9	55	24.7	AV	N	FLO
	0.226000	23.40	10.9	53	29.2	AV	N	FLO
	0.594000	24.10	10.8	46	21.9	AV	N	FLO
	3.822000	24.80	11.6	46	21.2	AV	N	FLO
	6.782000	77.80	11.7	50	-27.8	AV	N	FLO
	13.506000	33.40	12.1	50	16.6	AV	N	FLO

RESULT: PASS



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9. FCC RADIATED EMISSION TEST

9.1. LIMITS OF RADIATED EMISSION TEST

9KHz-30MHz

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)		Below 500 500 or more	25 × SQRT(power/500)	300 1300
	Any non-ISM frequency	Below 500 500 or more	15 15 × SQRT(power/500)	300 1300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (²)	1,600 (²)
Medical diathermy	Any ISM frequency Any non-ISM frequency	Any Any	25 15	300 300
Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) 2,400/F(kHz) × SQRT(power/500)	300 3300
	490 to 1,600 kHz Above 1,600 kHz	Any Any	24,000/F(kHz) 15	30 30
Induction cooking ranges	Below 90 kHz On or above 90 kHz	Any Any	1,500 300	⁴ 30 ⁴ 30

30MHz-1000MHz

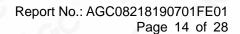
Frequency (MHz)	Field strength limit at 30 meters (µV/m)
Non-consumer equipment:	
30-88	30
88-216	50
216-1000	70
Consumer equipment:	
30-88	10
88-216	15
216-1000	20

Note: The lower limit shall apply at the transition frequency.



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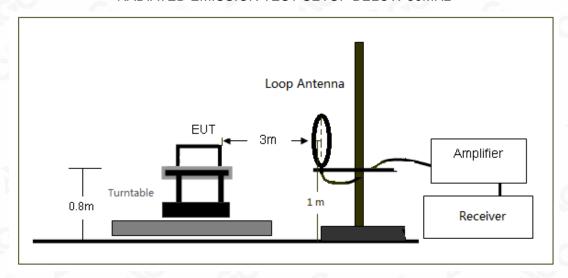
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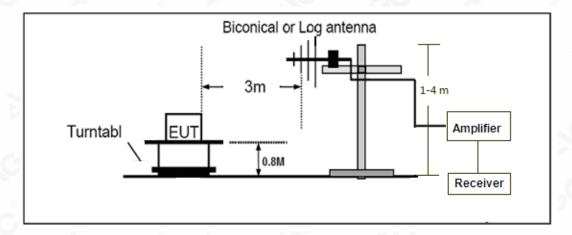


9.2. BLOCK DIAGRAM OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz





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9.3. PROCEDURE OF RADIATED EMISSION TEST

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

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per FCC/OET MP-5 (see Test Facility for the dimensions of the ground plane used). When the EUT is 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 FCC/OET MP-5.
- (3) All I/O cables were positioned to simulate typical actual usage as per FCC/OET MP-5.
- (4) All support equipments received AC120V/60Hz power from socket under the turntable, if any.
- (5) The antenna was placed at 3 meter away from the EUT. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- (6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- (7) The test mode(s) were scanned during the test:
- (8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.





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9.4. TEST RESULT OF RADIATED EMISSION TEST

9KHz-30MHz

Frequency	Reading	Correction Factor	Result	Limit	Margin	Polar	Detector
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Front/side	
6.78	98.69	-11.29	87.40		C	Front	Peak
13.56	52.87	-12.03	40.84	67.96	-27.12	Front	Peak
6.78	83.95	-11.29	72.66			Side	Peak
13.56	43.35	-12.03	31.32	67.96	-36.64	Side	Peak

Note:

Level(dBuV/m)=Reading(dBuV)+Factor(dB/m)

Factor(dB/m)=Antenna Factor(dB/m)+Cable loss(dB)+Attenuation(dB)for Attenuator

Margin=Level-Limit

Limit(dBuV/m)=20log25+20log(300/3)=67.96dBuV/m.

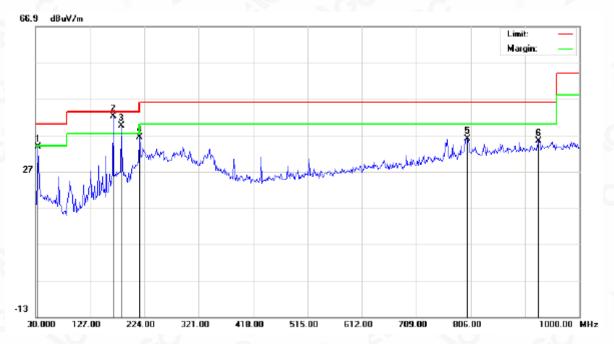
ISM equipment operating on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.





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30MHz-1GHz Radiated Emission below 1GHz Test at 3m Distance-Horizontal



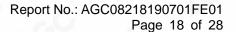
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		34.8500	15.40	18.32	33.72	40.00	-6.28	peak			
2	*	169.4973	23.94	18.21	42.15	43.50	-1.35	QP			
3	Ţ	183.5833	22.67	16.94	39.61	43.50	-3.89	peak			
4		215.9167	19.40	17.00	36.40	43.50	-7.10	peak			
5		799.5333	5.60	30.40	36.00	46.00	-10.00	peak			
6		927.2500	3.44	31.93	35.37	46.00	-10.63	peak			

RESULT: PASS



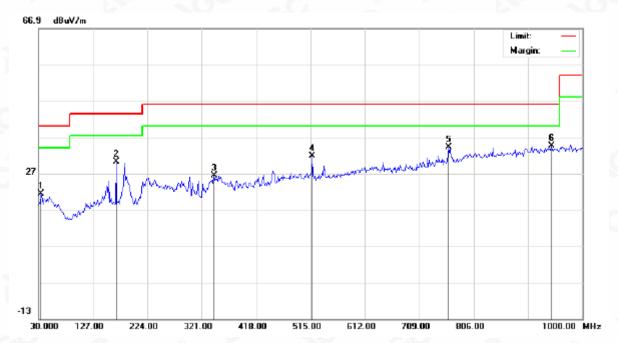
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Radiated Emission below 1GHz Test at 3m Distance-Vertical



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		34.8500	3.14	18.32	21.46	40.00	-18.54	peak			
2		169.0333	11.87	18.26	30.13	43.50	-13.37	peak			
3		343.6333	5.37	21.00	26.37	46.00	-19.63	peak			
4		518.2333	6.53	25.35	31.88	46.00	-14.12	peak			
5		760.7333	4.72	29.52	34.24	46.00	-11.76	peak		·	
6	*	945.0333	2.50	32.09	34.59	46.00	-11.41	peak			

RESULT: PASS

Note:

Measurement(dBuV/m)=Reading(dBuV)+Factor(dB/m)

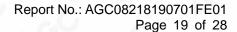
Factor(dB/m)=Antenna Factor(dB/m)+Cable loss(dB)+Attenuation(dB)for Attenuator

Over= Measurement -Limit



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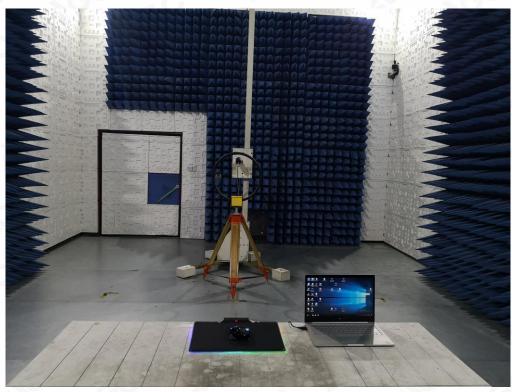


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC CONDUCTED EMISSION TEST SETUP



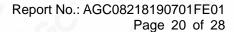
FCC RADIATED EMISSION TEST SETUP



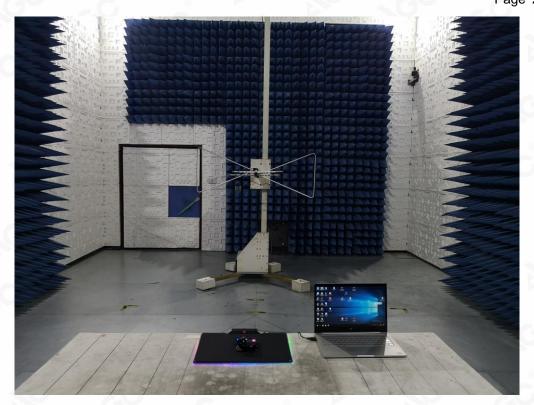


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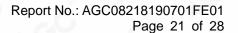






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APPENDIX B: PHOTOGRAPHS OF EUT

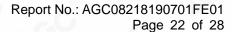
ALL VIEW OF EUT





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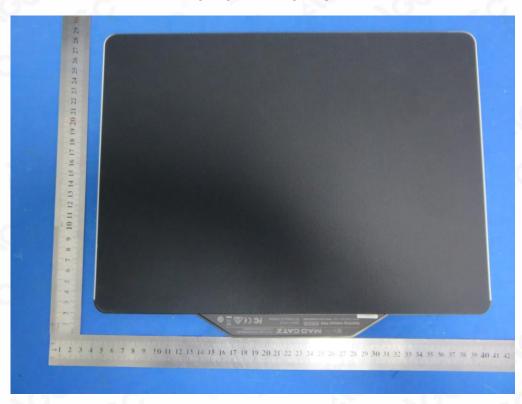




TOP VIEW OF EUT



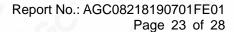
BOTTOM VIEW OF EUT





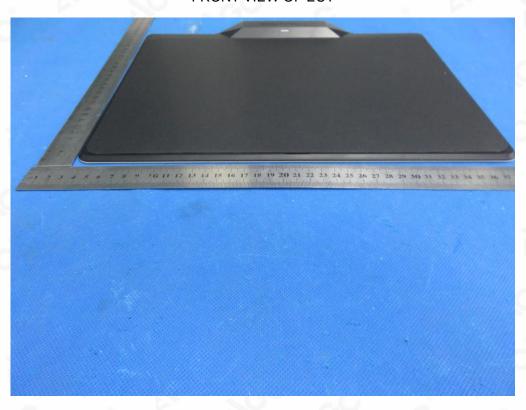
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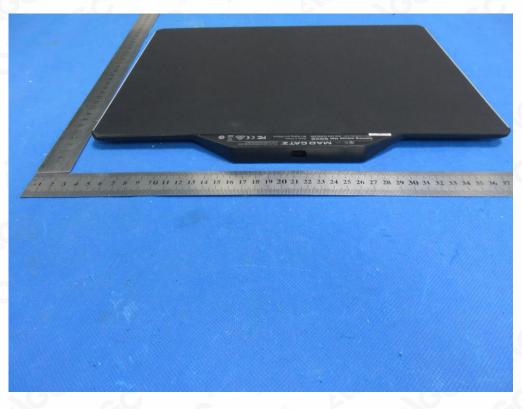




FRONT VIEW OF EUT



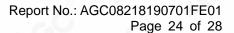
BACK VIEW OF EUT





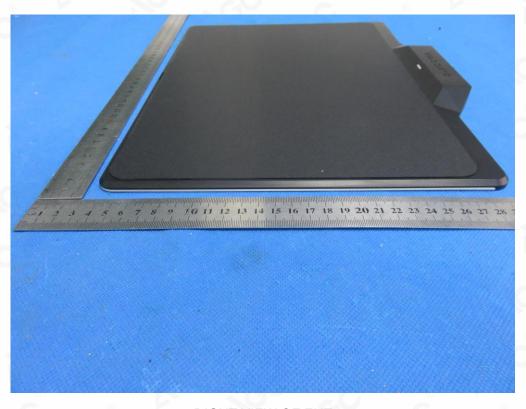
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

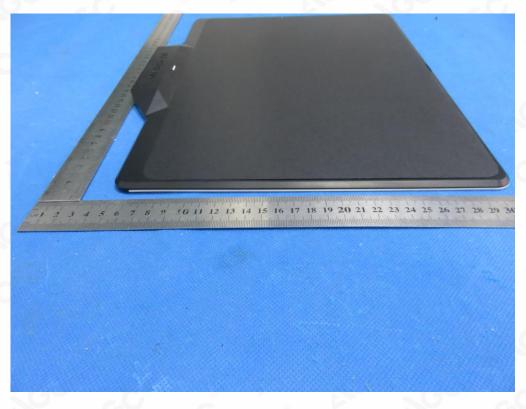




LEFT VIEW OF EUT



RIGHT VIEW OF EUT



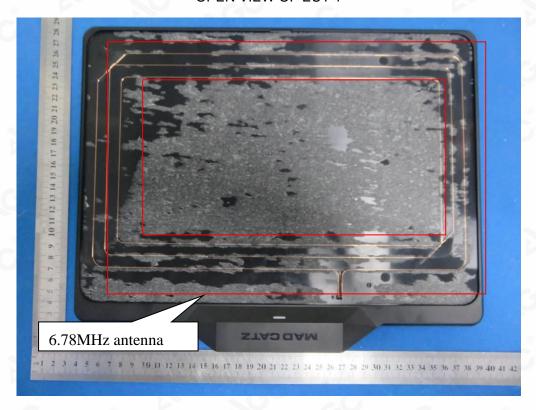


Attestation of Global Compliance(Shenzhen)Co.,Ltd.

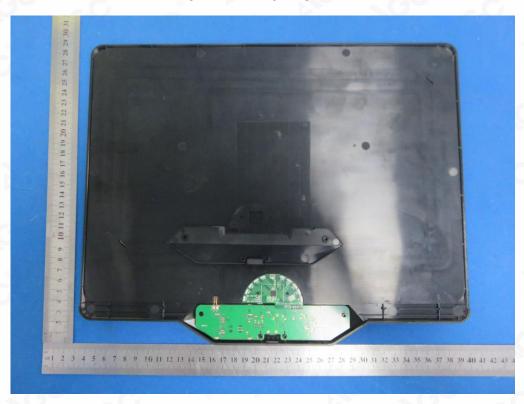
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,



OPEN VIEW OF EUT-1



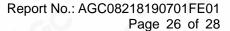
OPEN VIEW OF EUT-2





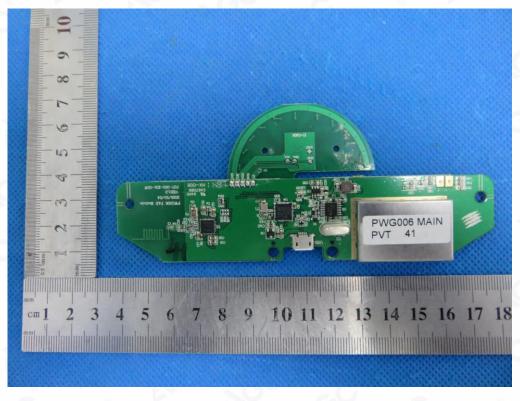
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

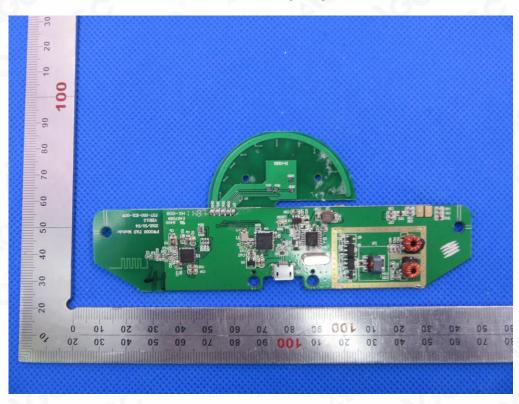




INTERNAL VIEW OF EUT-1



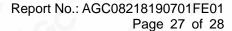
INTERNAL VIEW OF EUT-2





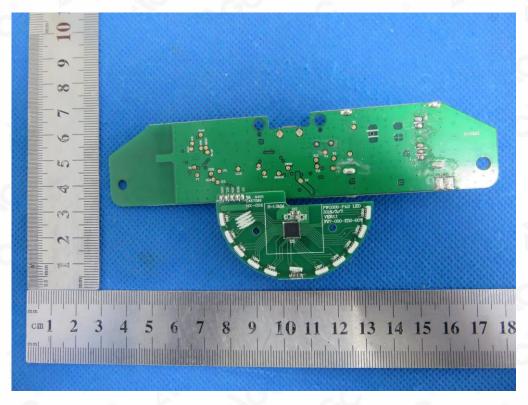
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

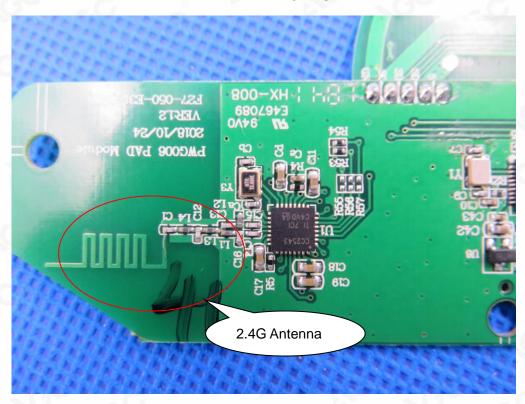




INTERNAL VIEW OF EUT-3



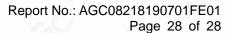
INTERNAL VIEW OF EUT-4





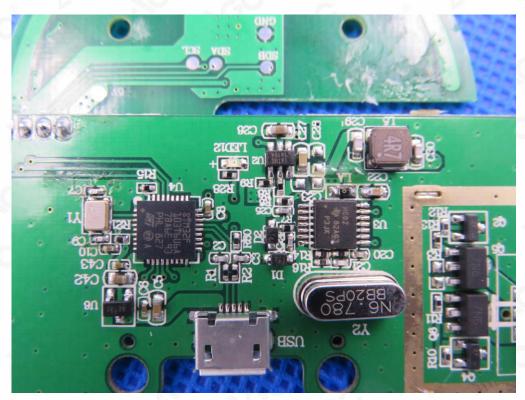
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Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,





INTERNAL VIEW OF EUT-5



----END OF REPORT----



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

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