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1. Test Certification

Product:	Smart remot with touchpa		(2.4G RF/BLE	/Voice air mo	use, mini kel	ooard
Model No.:	MX9					
Additional Model:	Please refer	to page 5	Ch	5		
Trade Mark:	N/A					
Applicant:	t: Shenzhen Tianzun Technology Co., Ltd.					
Address:	6th Floor, Building 65, Baotian Industrial Park, Chentian Communit Baoan District, Shenzhen, China			nity,		
Manufacturer:	Shenzhen T	ianzun Tech	nology Co., Lt	td.		
Address: 6th Floor, Building 65, Baotian Industrial Park, Chentian Commu Baoan District, Shenzhen, China				nity,		
Date of Test:	Apr. 29, 201	9 - May 07, 1	2019			
Applicable Standards:	FCC CFR Ti ANSI C63.10		5 Subpart C S	Section 15.249)	Ś

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.

Kein Huang Tested By: Date: May 07, 2019 Kevin Huang **Reviewed By:** May 08, 2019 Date: Approved By: Date: May 08, 2019 Tomsin Page 3 of 35



2. Test Result Summary

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

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3. EUT Description

Product:	Smart remote controller (2.4G RF/BLE/Voice air mouse, mini keboard with touchpad)
Model No.:	MX9
Additional Model:	MX3, MX5, MX6, P1, P3, P5, P9, P9+, Q3, Q5, Q9, k57, TZ01, TZ02, TZ03, TZ05, TZ06, TZ08, TZ09, TZ10, TZ11, TZ12, TZ13, TZ15, TZ16, TZ18, TZ20, TZ21, TZ22, TZ23, TZ25, TZ26, TZ28, TL01, TL02, TL03, TL05, TL06, TL08, TL10, TL12, TL16, TL18, TL20, TL21, TL22, TL25, TL26, TL28, TL30
Trade Mark:	N/A
Hardware Version:	MX9 V1.3
Software Version:	MX9 V2.0
Operation Frequency:	2404MHz - 2480MHz
Number of Channel:	79
Modulation Technology:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	-3dBi
Power Supply:	Rechargeable Li-ion battery DC 3.7V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.



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Operation Frequency Each of Channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
G 1	2404MHz	5)11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
10	2422MHz	20	2442MHz	30	2462MHz		
Remark:	Remark: Channel 1, 19 & 39 have been tested for GFSK modulation mode.						

Note:

In section 15.31(*m*), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2404MHz
The middle channel	2440MHz
The Highest channel	2480MHz



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:	eep the EUT in continuous transmitting by select nannel
-------------------	---

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 (Z axis) 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
10	1	1		

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

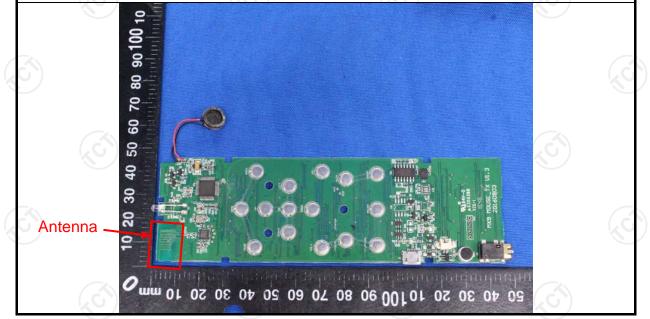
The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item		MU
	Conducted Emission	No.	±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%
	$(\mathcal{L}\mathcal{G}^{*})$ $(\mathcal{L}\mathcal{G}^{*})$ $(\mathcal{L}\mathcal{G}^{*})$		(\mathcal{S})



E.U.T Antenna:

The EUT antenna is PCB antenna which permanently attached, and the best case gain of the antenna is -3dBi.



Test Method:	ANSI C63.10:2013	ANSI C63.10:2013			
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz			
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto			
	Frequency range (MHz)	Limit (Quasi-peak	dBuV) Av		
Limits:	0.15-0.5	66 to 56*	56		
	0.5-5	56			
	5-30	60			

	0.5-5	56	46		
	5-30	60	50		
Test Setup:	Reference Plane				
Test Mode:	Refer to item 4.1		Ć		
Test Procedure:	 The E.U.T is connected to an adapter 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. 				

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PASS

Test Result:

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Average 56 to 46*



6.2.Conducted Emission

6.2.1. Test Specification

6.2.2. Test Instruments

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					

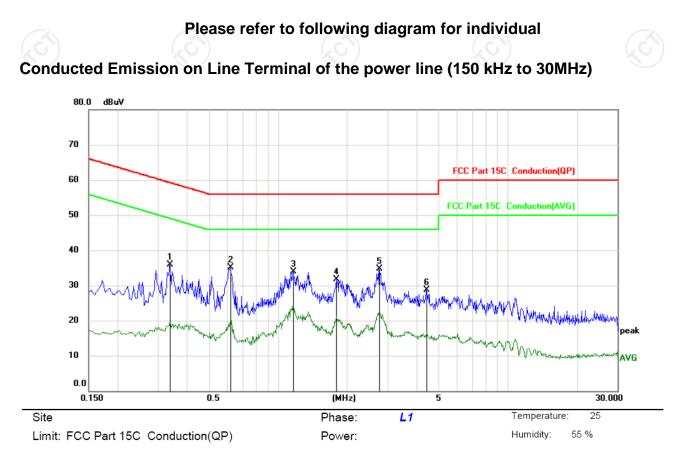
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



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6.2.3. Test data

TCT通测检测 TCT通测检测



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.3390	25.75	10.23	35.98	59.23	-23.25	peak		
2	*	0.6180	24.88	10.23	35.11	56.00	-20.89	peak		
3		1.1625	23.54	10.37	33.91	56.00	-22.09	peak		
4		1.7970	21.29	10.43	31.72	56.00	-24.28	peak		
5		2.7554	24.21	10.46	34.67	56.00	-21.33	peak		
6		4.4295	18.14	10.48	28.62	56.00	-27.38	peak		

Note:

Freq. = Emission frequency in MHz

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

Corr. Factor (dB) = LISN 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 μ V) – Limits (dB μ V)

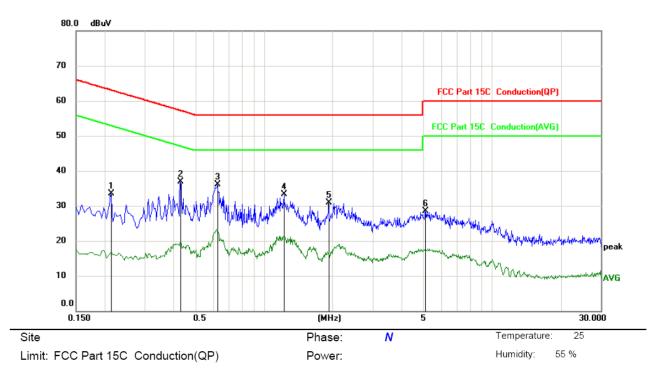
Q.P. =Quasi-Peak

AVG =average

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

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

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2130	23.28	10.23	33.51	63.09	-29.58	peak	
2	0.4290	26.67	10.22	36.89	57.27	-20.38	peak	
3 *	0.6270	25.94	10.23	36.17	56.00	-19.83	peak	
4	1.2255	22.93	10.38	33.31	56.00	-22.69	peak	
5	1.9185	20.43	10.44	30.87	56.00	-25.13	peak	
6	5.1045	18.04	10.48	28.52	60.00	-31.48	peak	

Note:

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> Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = LISN 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 * is meaning the worst frequency has been tested in the frequency range 150 kHz

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

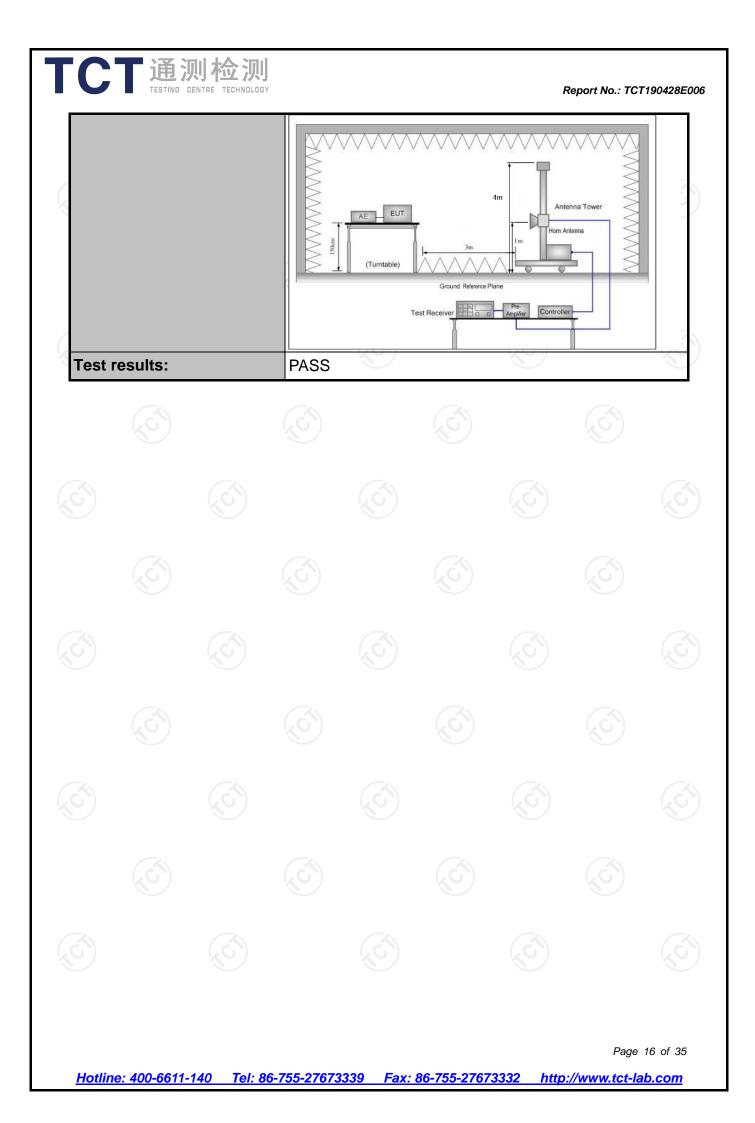
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6.3. Radiated Emission Measurement

6.3.1. Test Specification

Test Requirement:	FCC Part15	5 C Section	n 15.209					
Test Method:	ANSI C63.1							
Frequency Range:	9 kHz to 25 GHz 3 m							
Measurement Distance:	3 m							
Antenna Polarization:	Horizontal 8	Iorizontal & Vertical						
	Frequency	Detector	RBW	VBW	Remark			
Receiver Setup:	9kHz- 150kHz 150kHz- 30MHz	Quasi-peak Quasi-peak	200Hz 9kHz	<u>1kHz</u> 30kHz	Quasi-peak Value Quasi-peak Value			
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
		Peak	1MHz	10Hz	Average Value			
Limit(Field strength of the	Freque	ency	Limit (dBu	V/m @3m)	Remark			
fundamental signal):	2400MHz-24	183 5MHz	94.		Average Value			
runuamentai signaij.	240010112-2-	100.01011 IZ	114	.00	Peak Value			
	Freque	ency	Limit (dBuV/m @3m)		Remark			
.imit(Spurious Emissions):	0.009-0).490	2400/F(KHz)		Quasi-peak Value			
	0.490-1	1.705	24000/F(KHz)		Quasi-peak Value			
	1.705		3		Quasi-peak Value			
	30MHz-8		40		Quasi-peak Value			
	00IVITIZ-2		43		Quasi-peak Value			
	216MHz-9		<u>46.0</u> 54.0		Quasi-peak Value			
	960MHz	-IGHZ	54.0		Quasi-peak Value Average Value			
	Above ?	1GHz			Peak Value			
Limit (band edge) :	Emissions radiated outside of the specified freque bands, except for harmonics, shall be attenuated least 50 dB below the level of the fundamental or general radiated emission limits in Section 15 whichever is the lesser attenuation.							
Test Procedure:	meters below 1GHz. determin 2. The El interfere on the to 3. The ante meters a value o	above the 1GHz, 1.5 The table ne the pos UT was ence-receive op of a var enna heigh above the of the fiel	ground a m above was ro ition of the set 3 r ving anter iable-heig t is varied ground to d strengt	at a 3 m e the gr otated 3 e highest neters a nna, whic ght anten d from or determin ch. Both	otating table 0.8 eter chamber in ound in above 60 degrees to radiation. away from the ch was mounted na tower. ne meter to fou ne the maximum horizontal and are set to make			

	the measurement.
	 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. 5. 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
	Distance = 3m
	0.8m Turn table
	30MHz to 1GHz
Test setup:	EUT 4m RF Test
	Turm 0.8m 1m 1 Kr 1 ksr Receiver
	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

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	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)	отст	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).

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6.3.3. Test Data

Field Strength of Fundamental

Frequency (MHz)	Peak reading (dBuV/m)	Correction Factor	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
2404	92.54	-4.2	88.34(PK)	Н	114/94	-25.66
2404	78.69	-4.2	74.49(AV)	Н	114/94	-19.51
2440	90.82	-4.2	86.62(PK)	Н	114/94	-27.38
2440	76.43	-4.2	72.23(AV)	н	114/94	-21.77
2480	89.41	-4.2	85.21(PK)	Н	114/94	-28.79
2480	75.18	-4.2	70.98(AV)	Н	114/94	-23.02
2404	91.59	-4.2	87.39(PK)	G V	114/94	-26.61
2404	76.38	-4.2	72.18(AV)	V	114/94	-21.82
2440	89.42	-4.2	85.22(PK)	V	114/94	-27.78
2440	75.25	-4.2	71.05(AV)	V	114/94	-22.95
2480	88.36	-4.2	84.16(PK)	V	114/94	-29.84
2480	74.48	-4.2	70.28(AV)	V	114/94	-23.72

Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@:	3m (dBµ∖	//m)	Limit@3m (dBµV/m)	
ĺ	Ċ				
			(G)	- (.C)	

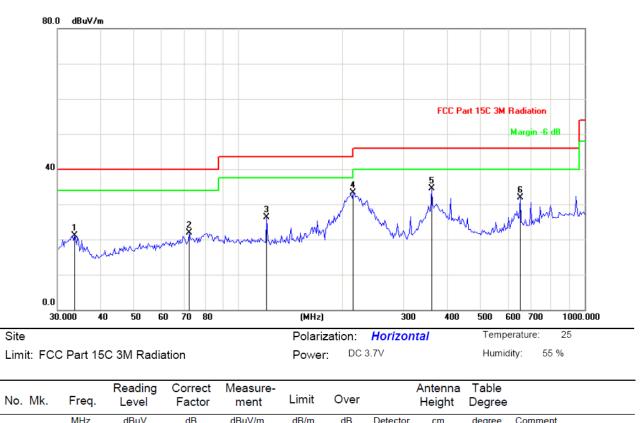
Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

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)

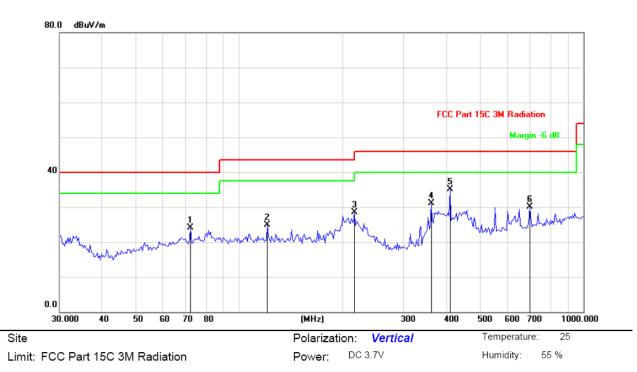
Horizontal:



									•	•	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
_	1	33.5700	32.22	-11.02	21.20	40.00	-18.80	peak	100	185	
_	2	72.2111	37.76	-15.87	21.89	40.00	-18.11	peak	100	96	
_	3	120.6118	38.13	-11.78	26.35	43.50	-17.15	peak	100	84	
_	4 *	214.6063	46.82	-13.59	33.23	43.50	-10.27	peak	100	297	
_	5	360.9775	44.05	-9.53	34.52	46.00	-11.48	peak	100	62	
_	6	651.3831	37.41	-5.57	31.84	46.00	-14.16	peak	100	286	
_											

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Vertical:



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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		72.2111	40.01	-15.87	24.14	40.00	-15.86	peak	100	188	
2		120.6118	36.61	-11.78	24.83	43.50	-18.67	peak	100	99	
3		216.1197	41.98	-13.55	28.43	46.00	-17.57	peak	100	63	
4		360.9775	40.72	-9.53	31.19	46.00	-14.81	peak	100	295	
5	*	409.6506	43.92	-8.83	35.09	46.00	-10.91	peak	100	65	
6		698.8035	35.60	-5.47	30.13	46.00	-15.87	peak	100	281	

Note: Measurements were conducted in all channels (high, middle, low), and the worst case (low channel) was submitted only.



	Low channel: 2404 MHz											
Frequ (MF		Ant. Pol. H/V	Peak AV reading reading (dBµV) (dBuV)		Correction Factor (dB/m)			Peak limit (dBµV/m)		Margin (dB)		
4808	8.00	Н	49.52		-3.94	45.58		74.00	54.00	-8.42		
7212	2.00	Н	43.25		0.52	43.77		74.00	54.00	-10.23		
	-											
2387	7.50	V	50.69		-4.2	46.49		74.00	54.00	-7.51		
4808	8.00	V	48.62	-4,0	-3.94	44.68	<u>G</u> 1	74.00	54.00	-9.32		
7212	2.00	V	45.27		0.52	45.79		74.00	54.00	-8.21		
	-											

Above 1GHz

			Μ	liddle chann	el: 2440 M	Hz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)		n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4880.00	Н	48.51		-3.98	44.53		74.00	54.00	-9.47
7320.00	Н	45.43	- - f.G	0.57	46.00		74.00	54.00	-8.00
				/	1				
4880.00	V	48.76		-3.98	44.78		74.00	54.00	-9.22
7320.00	V	44.81		0.57	45.38		74.00	54.00	-8.62
<u>,</u> G`)		()		(20)				

High channel: 2480 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	ng reading Factor Peak AV				Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4960.00	H	48.57		-3.98	44.59		74.00	54.00	-9.41
7440.00	Н	46.01		0.57	46.58		74.00	54.00	-7.42
4960.00	V	49.85		-3.98	45.87		74.00	54.00	-8.13
7440.00	V	43.66		0.57	44.23		74.00	54.00	-9.77

Note:

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1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/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

TCT通测检测 TESTING CENTRE TECHNOLOGY

Toguopov	Ant. Pol.	Peak	Peak AV		Emission Level		Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)		(dBµV/m)	(dB)
2390	Н	48.27		-4.2	44.07		74.00		-29.93
2390	Н		37.49	-4.2		33.29	4	54.00	-20.71
2400	Н	53.19		-4.2	48.99		74.00		-25.01
2400	H		42.56	-4.2		38.36		54.00	-15.64
			(G`)				-4,0)
2390	V	50.63		-4.2	46.43		74.00		-27.57
2390	V		34.86	-4.2	30.66			54.00	-23.34
		-		((
2400	V	55.72	/	-4.2	51.52		74.00		-22.48
2400	V		39.78	-4.2		35.58		54.00	-18.42

High channel: 2480 MHz

Frequency	Ant. Pol. H/V	Peak		Correction	Emission Level		Peak limit	AV limit	Margin	
(MHz)			reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)		(dBµV/m)		
2483.5	Н	56.02	·)	-4.2	51.82		74.00		-22.18	
2483.5	Н		41.63	-4.2	<u> </u>	37.43	2	54.00	-16.57	
2483.5	V	55.65	(-4.2	51.45	-4	74.00		-22.55	
2483.5	V		40.82	-4.2		36.62		54.00	-17.38	

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak/Average)($dB\mu V/m$)-(Peak/Average) limit ($dB\mu V/m$)

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.

Report No.: TCT190428E006

6.4.20dB Occupied Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section	15 215(c)	No.
Test Method:	ANSI C63.10: 2013	110.210(0)	
Limit:	N/A	G)	$(\mathbf{x}\mathbf{G})$
	 According to the for position between the 2. Set to the maximule EUT transmit contriants Use the following 20dB Bandwidth me Span = approxime bandwidth, centered on a hop dB bandwidth; VBW≥RBW; Sweet peak; Trace = maxet 4. Measure and record 	he artificial ante im power settir nuously. spectrum ana neasurement. nately 2 to 3 ping channel; F ep = auto; De c hold.	enna and the EUT. Ing and enable the alyzer settings for times the 20 dB RBW≥1% of the 20 etector function =
Test setup:	Spectrum Analyzer	EUT	
Test Mode:	Transmitting mode wit	h modulation	A.C.
Test results:	PASS		

6.4.2. Test Instruments

RF Test Room									
1	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 Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion
X	Lowest	1032.05		PASS
ſ	Middle	862.18		PASS
Ī	Highest	1201.92		PASS

Test plots as follows:

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