TEST REPORT FCC ID: YZHMDLNRF24L0102 **Product: Module** Model No.: MDL NRF24L01+ 02 Additional Model No.: N/A Trade Mark: N/A Report No.: TCT200730E014 Issued Date: Sep. 07, 2020 Issued for: Raffel Systems, LLC N112 W14600 Mequon Road, Germantown, Wisconsin 53022, United States Issued By: Shenzhen Tongce Testing Lab. 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China TEL: +86-755-27673339 FAX: +86-755-27673332

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TCT通测检测 1. Test Certification

Product:	Module				
Model No.:	MDL NRF24L01+ 02		C		
Additional Model No.:	N/A		<i>C</i>		
Trade Mark:	N/A				
Applicant:	Raffel Systems, LLC				
Address:	N112 W14600 Mequon Road, Germantown, Wisconsin 53022, United States				
Manufacturer:	Xiamen Wellness Technology Co., Ltd.				
Address:	No.3 Houbin Road, Xiang'an District, Xi	iamen, China			
Date of Test:	Jul. 31, 2020 – Sep. 07, 2020				
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Se ANSI C63.10:2013	ection 15.249	ć		

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:	Brave. Leng.	Date:	Sep. 07, 2020	
	(\mathbf{c})	Brave Zeng	5)		
	Reviewed By:	Bengt There	Date:	Sep. 07, 2020	
		Beryl Zhao			
	Approved By:	Jonsta	Date:	Sep. 07, 2020	
		Tomsin	5)	Ś	(C)
				Page	3 of 32
Hotlin	ne: 400-6611-140 Tel	86-755-27673339	Fax: 86-755-276733	32 http://www.tct-la	b.com



2. Test Result Summary

Requirement	CFR 47 Section		Result	
Antenna Requirement	§15.203	KU I	PASS	K
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	G
Band Edge	§15.249 (d)/ §15.205		PASS	N.
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:	Module
Model No.:	MDL NRF24L01+ 02
Additional Model No.:	N/A
Trade Mark:	N/A
Hardware Version:	REVA
Software Version:	V1.0
Operation Frequency:	2404.6MHz - 2479.6MHz
Number of Channel:	76
Modulation Technology:	GFSK
Antenna Type:	30mm Quarter Wave Monopole Wire Antenna
Antenna Gain:	5.19dBi
Power Supply:	DC 5V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

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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	2404.6MHz
The Middle channel	2439.6MHz
The Highest channel	2479.6MHz

Operation Frequency Each of Channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2404.6MHz	19	2423.6MHz	38	2442.6MHz	57	2461.6MHz
1	2405.6MHz	20	2424.6MHz	39	2443.6MHz	58	2462.6MHz
8	2412.6MHz	27	2431.6MHz	46	2450.6MHz	65	2469.6MHz
9	2413.6MHz	28	2432.6MHz	47	2451.6MHz	66	2470.6MHz
17	2421.6MHz	36	2440.6MHz	55	2459.6MHz	74	2478.6MHz
18	2422.6MHz	37	2441.6MHz	56	2460.6MHz	75	2479.6MHz
loto:							

Note:

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4. General Information

4.1. Test Environment and Mode

Operating Environment:				
Condition	Radiated Emission			
Temperature:	25.0 °C	25.0 °C		
Humidity:	55 % RH	55 % RH		
Atmospheric Pressure:	1010 mbar	1010 mbar		

Test Mode:

Engineering mode:	Keep the EUT in continuous transmitting by select
	channel and modulations with Fully-charged battery

The sample was placed 0.8m & 1.5m for the measurement below & 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
			/	

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

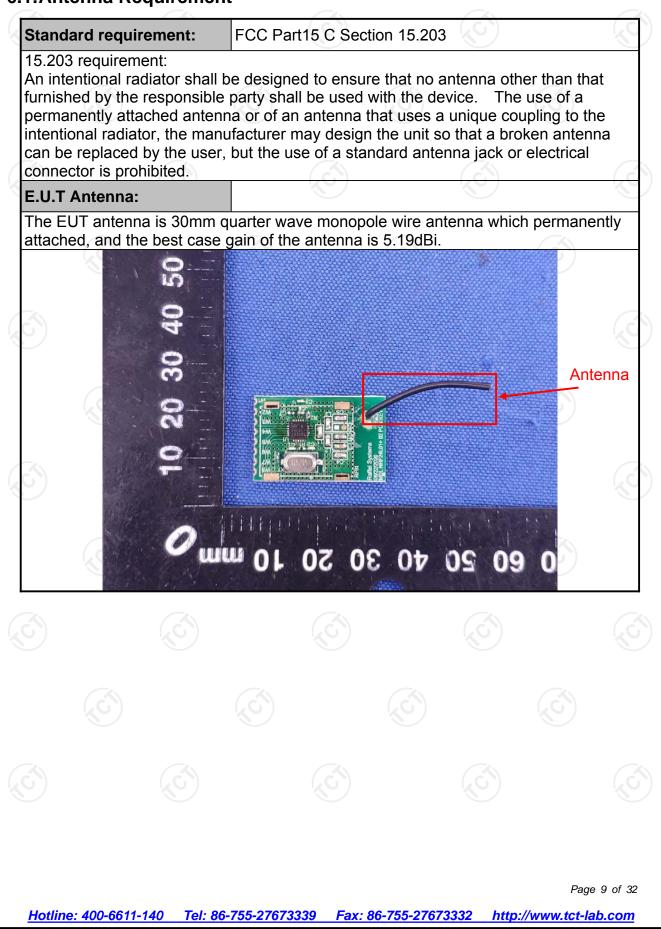
The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Item	MU
Conducted Emission	±2.56dB
RF power, conducted	±0.12dB
Spurious emissions, conducted	±0.11dB
All emissions, radiated(<1GHz)	±3.92dB
All emissions, radiated(>1GHz)	±4.28dB
Temperature	±0.1°C
Humidity	±1.0%
	Conducted Emission RF power, conducted Spurious emissions, conducted All emissions, radiated(<1GHz)



6. Test Results and Measurement Data

6.1. Antenna Requirement



6.2. Conducted Emission

6.2.1. Test Specification

.2.1. Test Specification	(\mathbf{C})	(\mathcal{C})			
Test Requirement:	FCC Part15 C Section	15.207	()		
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013			
Frequency Range:	150 kHz to 30 MHz	S			
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto			
-	Frequency range	Limit (dBuV)		
	(MHz)	Quasi-peak	Average		
1	0.15-0.5	66 to 56*	56 to 46*		
Limits:	0.5-5	56	46		
	5-30	60	50		
	Refere	ence Plane			
Test Setup:	LISN 40cm 80cm LISN AUX Filter AC po Equipment E.U.T EMI Test table/Insulation plane EMI Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
Test Mode:	Transmitting mode with	h modulation			
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		-		



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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. 27, 2021				
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2020				
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 08, 2020				
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) dBu¥ 80.0 70 Conduction(QP) FCC 15C Par 60 FCC P onduction(AVG) 50 art. 50 40 30 5 20 ALMAN M luu A peak 10 AVG 0.0 5.000 0 500 0 800 (MHz) 30.000 0.150

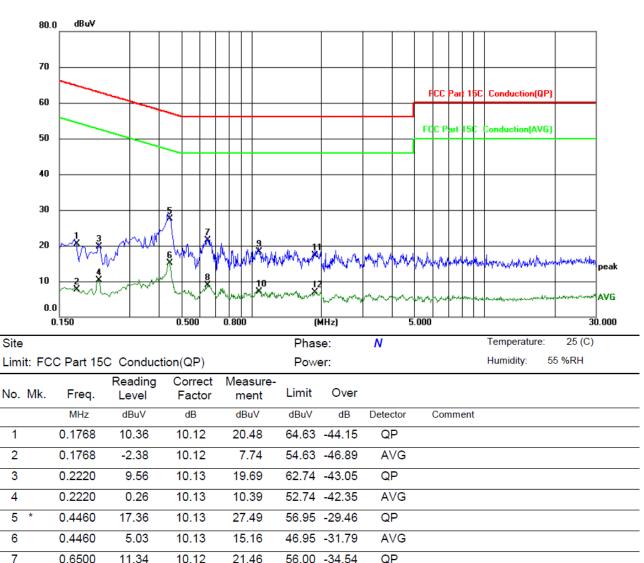
Site						Phas	se:	L1		Temperature:	25 (C)
Lim	it: FC	C Part 15	C Conduct	ion(QP)		Powe	er:		Humidity: 55 %RH		
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over				
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment		
1		0.2220	8.36	10.13	18.49	62.74	-44.25	QP			
2		0.2220	1.31	10.13	11.44	52.74	-41.30	AVG			
3	*	0.4460	18.29	10.13	28.42	56.95	-28.53	QP			
4		0.4460	1.66	10.13	11.79	46.95	-35.16	AVG			
5		0.6540	11.36	10.12	21.48	56.00	-34.52	QP			
6		0.6540	-1.99	10.12	8.13	46.00	-37.87	AVG			
7		1.0820	10.45	10.12	20.57	56.00	-35.43	QP			
8		1.0820	-2.95	10.12	7.17	46.00	-38.83	AVG			
9		1.9060	9.02	10.12	19.14	56.00	-36.86	QP			
10		1.9060	-3.65	10.12	6.47	46.00	-39.53	AVG			
11		2.7580	8.67	10.12	18.79	56.00	-37.21	QP			
12		2.7580	-4.58	10.12	5.54	46.00	-40.46	AVG			

Note:

0	ote:	
	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 μ 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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46.00 -37.12

56.00 -37.62

46.00 -38.97

56.00 -38.75

46.00 -39.14

AVG

QP

AVG

QP

AVG

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

Note:

8

9

10

11

12

Freq. = Emission frequency in MHz Reading level ($dB\mu V$) = Receiver reading

-1.24

8.26

-3.09

7.13

-3.26

0.6500

1.0740

1.0740

1.8740

1.8740

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

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

10.12

10.12

10.12

10.12

10.12

8.88

18.38

7.03

17.25

6.86

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.

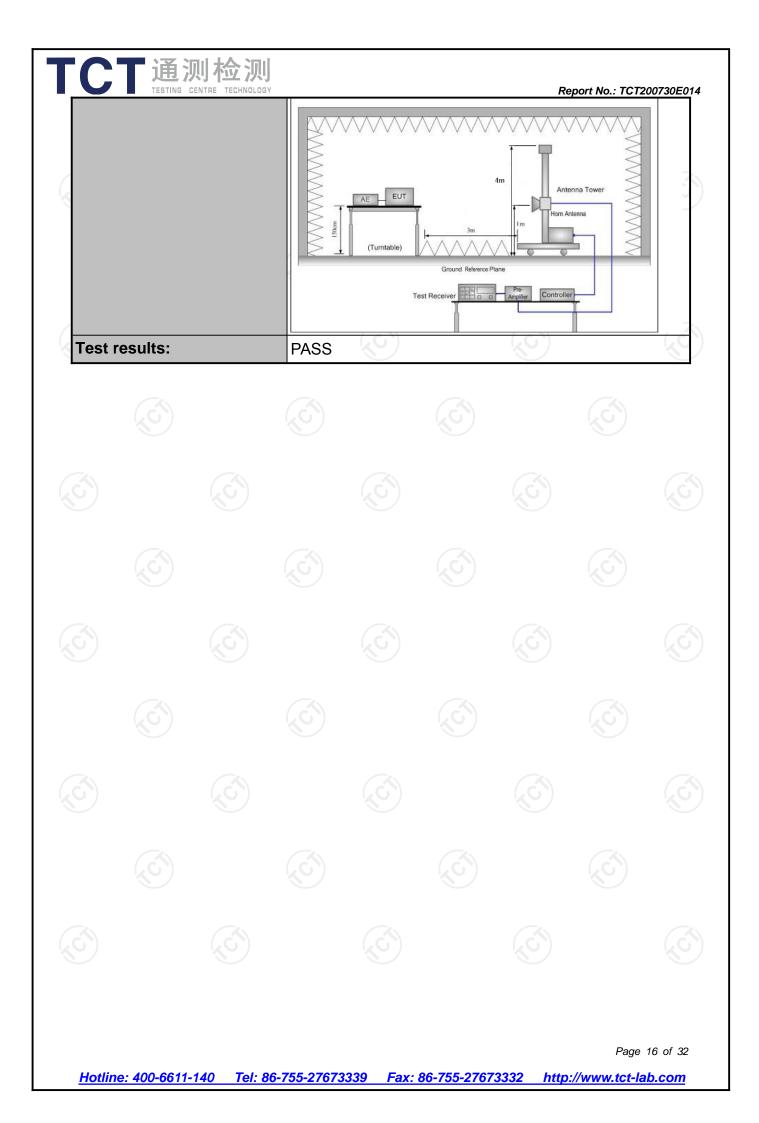
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6.3. Radiated Emission Measurement

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209						
Test Method:	ANSI C63.10:2013						
Frequency Range:	9 kHz to 25 GHz						
Measurement Distance:	3 m	K	9				
Antenna Polarization:	Horizontal &	& Vertical					
	Frequency	Detector	RBW	VBW	Remark		
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value		
•	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
	Above IGHZ	Peak	1MHz	10Hz	Average Value		
	Freque	ency	Limit (dBu	//m @3m)	Remark		
Limit(Field strength of the			94.		Average Value		
fundamental signal):	2400MHz-24	483.5MHz	114	.00	Peak Value		
- ,					No. 1		
	Freque	encv	Limit (dBuV/m @3m)		Remark		
	0.009-0		2400/F(KHz)		Quasi-peak Value		
	0.490-1.705		24000/F(KHz)		Quasi-peak Value		
	1.705	-30	30		Quasi-peak Value		
Limit(Spurious Emissions)	30MHz-8	38MHz	40.0		Quasi-peak Value		
Limit(Spurious Emissions):	88MHz-2	16MHz	43	.5	Quasi-peak Value		
	216MHz-9	60MHz	46.0		Quasi-peak Value		
	960MHz	-1GHz	54.0		Quasi-peak Value		
	Above ²	16H7	54.0		Average Value		
		-	74		Peak Value		
Limit (band edge) :	bands, exce least 50 dB general rae whichever i	ept for har below the diated em s the lesse	monics, s level of t ission lir r attenua	shall be he funda nits in tion.	cified frequency attenuated by a amental or to the Section 15.209		
Test Procedure:	 whichever is the lesser attenuation. 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 						

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	 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 Computer Pre-Amplifier UT UT UT UT UT UT UT UT UT UT
Test setup:	Antenna Tower FUT Turm O.8m Im Im Ground Plane Above 1GHz
S S	(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.)
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6.3.2. Test Instruments

Radiated Emission Test Site (966)								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 27, 2021				
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2020				
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 08, 2020				
Pre-amplifier	HP	8447D	2727A05017	Sep. 08, 2020				
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 11, 2020				
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 06, 2020				
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 11, 2020				
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 06, 2020				
Antenna Mast	Keleto	RE-AM	N/A	N/A				
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 08, 2020				
Coax cable (9KHz-40GHz)	бу тст	RE-high-04	N/A	Sep. 08, 2020				
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)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
	2404.6	77.25	Н	114	-36.75
	2404.6	75.61	V	114	-38.39
	2439.6	79.73	н	114	-34.27
	2439.6	76.26	V	114	-37.74
C	2479.6	78.48	H	114	-35.52
	2479.6	75.39	V	114	-38.61

Frequency (MHz)	Emission AV (dBuV/m)	Horizontal /Vertical	Limits AV (dBuV/m)	Margin (dB)
2404.6	66.78	Н	94	-27.22
2404.6	64.52	V	94	-29.48
2439.6	65.17	Н	94	-28.83
2439.6	64.36	V	94	-29.64
2479.6	66.92	н	94	-27.08
2479.6	64.68	V	94	-29.32

Spurious Emissions

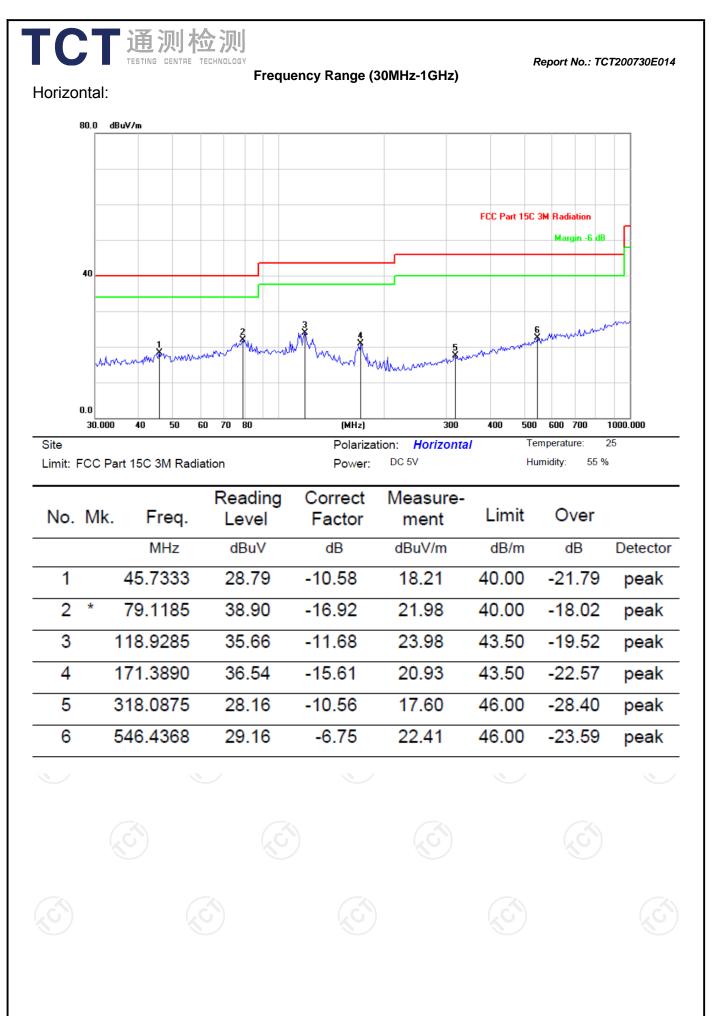
Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
	(č) - (č)	
×2		
	-	

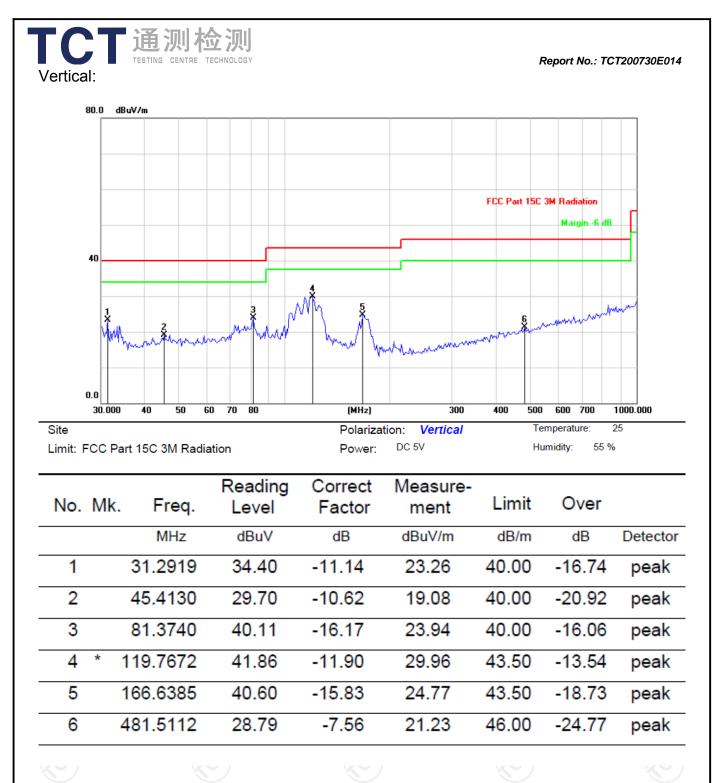
Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor.

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

3. For fundamental frequency, RBW >20dB BW , VBW>=RBW, PK detector is for PK value, RMS detector is for AV value.



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Note: 1. Measurements were conducted in all channels (high, middle, low), and the worst case (high channel) was submitted only.

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

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Report No.: TCT200730E014 Above 1GHz Low channel: 2404.6MHz Peak AV Correction **Emission Level** Frequency Ant. Pol. (MHz) H/V Peak limit AV limit Margin reading reading Factor Peak AV (dBµV/m) (dBµV/m) (dB)(dBµV) (dBuV) (dB/m) $(dB\mu V/m)$ (dBµV/m) 52.04 4809.20 Н -3.94 48.10 74 54 -5.90 ------7213.80 46.27 0.52 46.79 74 54 -7.21 Н ----------------___ ------____ ----------4809.20 V 49.79 -3.94 45.85 74 54 -8.15 7213.80 V 43.23 0.52 43.75 74 54 -10.25 <u>_</u> --4 -----___ ----------------------

	Middle channel: 2439.6MHz								
Frequency	Ant Pol	Peak	AV	Correction		on Level	Dook limit	AV limit	Margin
(MHz)	H/V	reading	reading	Factor	Peak	AV	(dRuV/m)	(dBµV/m)	(dB)
(101112)	11/ V	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)			(UD)
4879.20	Н	51.26		-3.98	47.28		74	54	-6.72
7318.80	Н	46.05		0.57	46.62		74	54	-7.38
				<u> </u>	(
ļ			KO KO						
4879.20	V	51.38		-3.98	47.40		74	54	-6.60
7318.80	V	45.24		0.57	45.81		74	54	-8.19
<u>a</u>		(\mathbf{c})		((.c.

		(\mathbf{a})		(-7)		(\mathbf{a})		(.)
	High channel: 2479.6MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4959.20	Н	52.81		-3.98	48.83		74	54	-5.17
7438.80	Н	47.95		0.57	48.52	<u> </u>	74	54	-5.48
4959.20	V	51.53		-3.98	47.55		74	54	-6.45
7438.80	V	45.77		0.57	46.34		74	54	-7.66
<u> </u>					/				

Note:

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

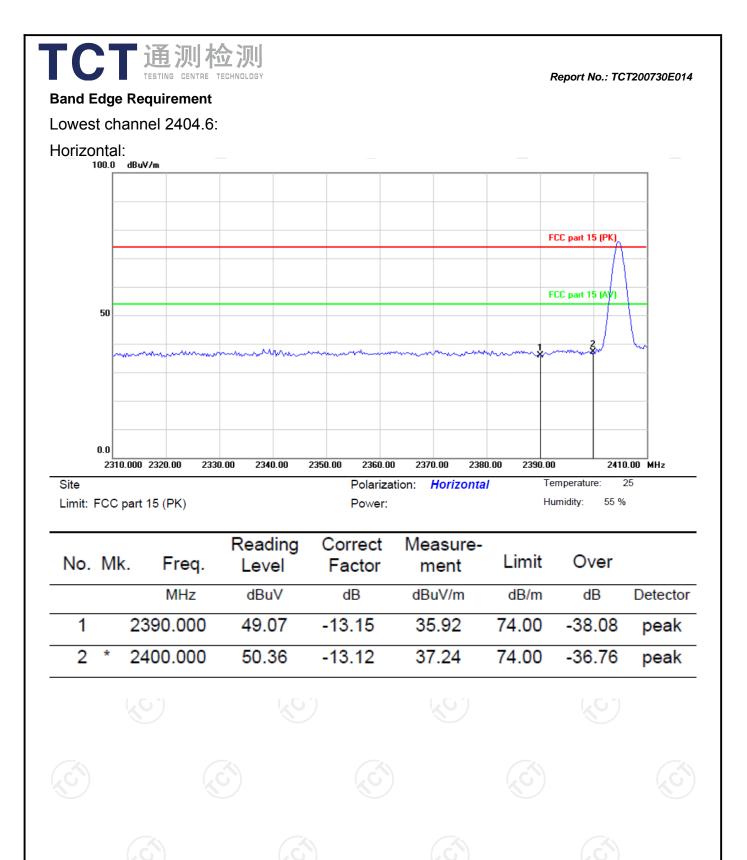
2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

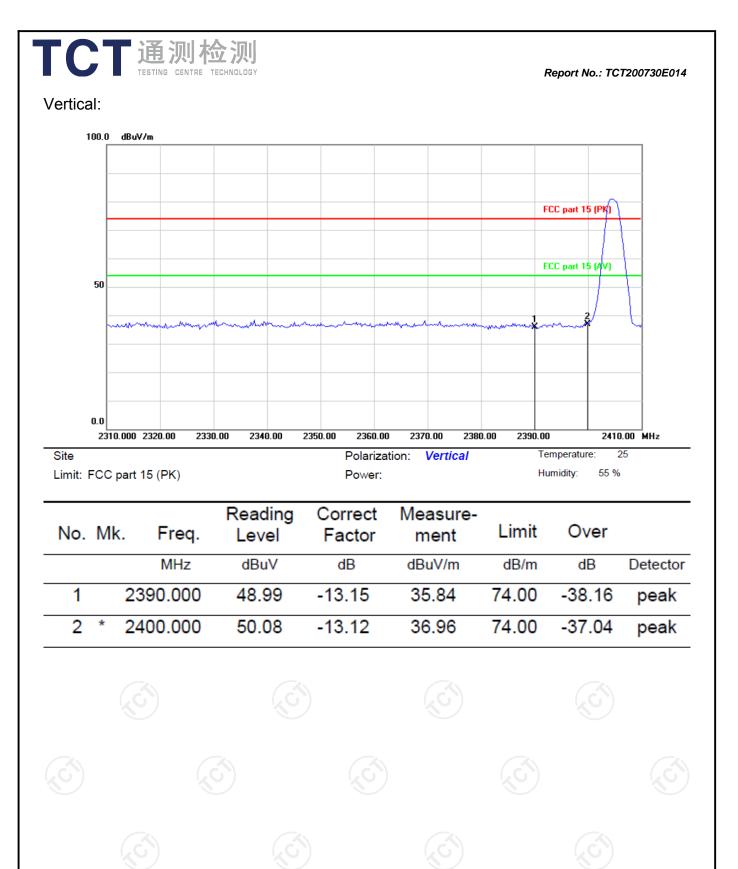
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

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.

6. All the restriction bands are compliance with the limit of 15.209.



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Report No.: TCT200730E014 Highest channel 2479.6: Horizontal: 100.0 dBuV/m FCC part 15 (PK) FCC part 15 (AV) 50 0.0 2477.000 2479.80 2488.20 2496.60 2505.00 MHz 2482.60 2485.40 2491.00 2493.80 2499.40 Site Polarization: Horizontal Temperature: 25 Humidity: 55 % Limit: FCC part 15 (PK) Power: Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m dB/m dB Detector

-12.84

40.45

74.00

-33.55

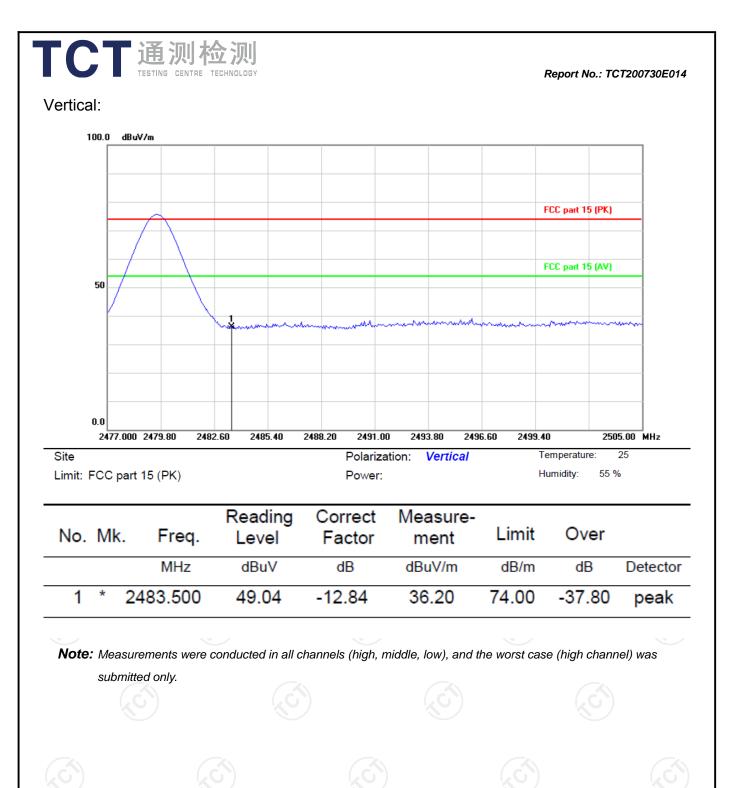
peak

1 *

2483.500

53.29

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6.4. 20dB Occupied Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
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

Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020	

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

TCT通测检测 TESTING CENTRE TECHNOLOGY 6.4.3. Test data

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Test Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion
Lowest	573.72	(3)	PASS
Middle	548.08		PASS
Highest	557.69		PASS

