TEST REPORT

FCC ID: 2AIL4-PC184A Product: Wireless keyboard Model No.: PC184A Additional Model: Please refer to page 5 Trade Mark: VTIN, PATAZON Report No.: TCT180612E011 Issued Date: Jun. 21, 2018

Issued for:

VTIN TECHNOLOGY Co., Limited

Unit D, 16/F, One Capital Place, 18 Luard Road, Wan Chai, Hong Kong

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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1. Test Certification

Product:	Wireless keyboard
Model No.:	PC184A
Additional Model:	Please refer to page 5
Trade Mark:	VTIN, PATAZON
Applicant:	VTIN TECHNOLOGY Co., Limited
Address:	Unit D, 16/F, One Capital Place, 18 Luard Road, Wan Chai, Hong Kong
Manufacturer:	DONGGUAN COUSO TECHNOLOGY CO., LTD
Address:	26 MINYE STREET, TANGXIA TOWN, DONGGUAN CITY, CHINA
Date of Test:	Jun. 13, 2018 – Jun. 20, 2018
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: Jun. 20, 2018 Date: Rleo **Reviewed By:** Date: Jun. 21, 2018 **Beryl Zhao** ms Approved By: Date: Jun. 21, 2018 Tomsin Page 3 of 28



2. Test Result Summary

Antenna	uirement	CFR 47 S	Section		Result	
	Requirement	§15.2	203		PASS	
	Line Conducted	§15.2	207		N/A	
	Strength of damental	§15.24	.9 (a)		PASS	
Spuriou	s Emissions	§2.10 §15.249 (a) (S	PASS	C
Bar	nd Edge	§2.10 §15.249 (d)			PASS	
20dB Occu	pied Bandwidth	§2.10 §15.21			PASS	
Vote: 1. Pass: Test	item meets the require	ement.			()	Ċ
3. N/A: Test o	tem does not meet the case does not apply to sult judgment is decide	-	lard.			



3. EUT Description

Product:	Wireless keyboard
Model No.:	PC184A
Additional Model:	CS1000G, CS2000G, CS3000G, CS4000G, CS-4100G, CS-4200G, CS4300G, CS4400G, CS-4500G, CS4600G, CS4700G, CS4800G, CS4900G, CS5000G, CS5100G, CS5200G, CS5300G, CS5400G, CS5500G, CS5600G, CS5700G, CS5800G, CS5900G, CS-6000G, CS6100G, CS6200G, CS6300G, CS6400G, CS-6500G, CS6600G, CS6700G, CS6800G, CS6900G, CS7000G, CS7100G, CS7200G, CS7300G, CS7400G, CS7500G, CS7600G, CS7700G, CS7800G, CS7900G, CS7000G, CS7100G, CS7700G, CS7800G, CS7900G, CS-8000G, CS8100G, CS8200G, CS8300G, CS8400G, CS8500G, CS8100G, CS8700G, CS8800G, CS9000G, CS9100G, CS9200G, CS9300G, CS9400G, CS9500G, CS9600G, CS9700G, CS9800G, CS9900G, CX100LD, CX120LD, CX130LD, CX140LD, CX150LD, CX160LD, CX170LD, CX180LD, CX190LD, CK410B, CK910B, CS9100L, CS9200L, CS6500LD, CK470TL, CS4570G, CS4380G, CK400G, CK410G, CK420G, CK430G, CK440G, CK450G, CK460G, CK470T, CK480G, CK490G, CK600G, CK601G, CM800LD, CM810LD, CM820LD, CM830LD, CM840LD, CM850LD, CM860LD, CM870LD, CM830LD, CM840LD, CM550LD, CM660LD, CM870LD, CM630LD, CG11LD, CG12LD, CG13LD, CG14LD, CG15LD, CG10LD, CG11LD, CM640LD, CM650LD, CM620B, CM630B, CM640B, CM690LD, CM660D, CM670B, CM630B, CM640B, CM690LD, CM650LD, CM670B, CM630B, CM640B, CM690LD, CM660B, CM670B, CM630B, CM690B, CM840B, CM650B, CM660B, CM670B, CM630B, CM690B, CM840B, CM650B, CM660B, CM670B, CM630B, CM690B, CM840B, CM650B, CM860B, CM870B, CM670G, CM815G, CM860G, CM680G, CM895G, CM870G, CM894G, CM897G, CM650G, CM850G, CM870B, CM670G, CM898GL, PC184A-1
Trade Mark:	VTIN, PATAZON
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2408 - 2474MHz
Number of Channel:	34
Modulation Technology:	FSK
Antenna Type:	PCB Antenna
Antenna Gain:	2dBi

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Power Supply:	DC 3V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just appearance colors are different for the marketing requirement.

Operation Frequency Each of Channel

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Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2408MHz	10	2428 MHz	20	2448 MHz	30	2468 MHz
1	2410 MHz	11	2430 MHz	21	2450 MHz	31	2470 MHz
2	2412 MHz	12	2432 MHz	22	2452 MHz	32	2472 MHz
3	2414 MHz	13	2434 MHz	23	2454 MHz	33	2474 MHz
4	2416 MHz	14	2436 MHz	24	2456 MHz		
5	2418 MHz	15	2438 MHz	25	2458 MHz		
6	2420 MHz	16	2440 MHz	26	2460 MHz		KC)
7	2422 MHz	17	2442 MHz	27	2462 MHz		
8	2424 MHz	18	2444 MHz	28	2464 MHz		
9	2426 MHz	19	2446 MHz	29	2466 MHz	G)	(.ć
later							

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	2408MHz
The middle channel	2440MHz
The Highest channel	2474MHz

4. Genera 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
10				

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

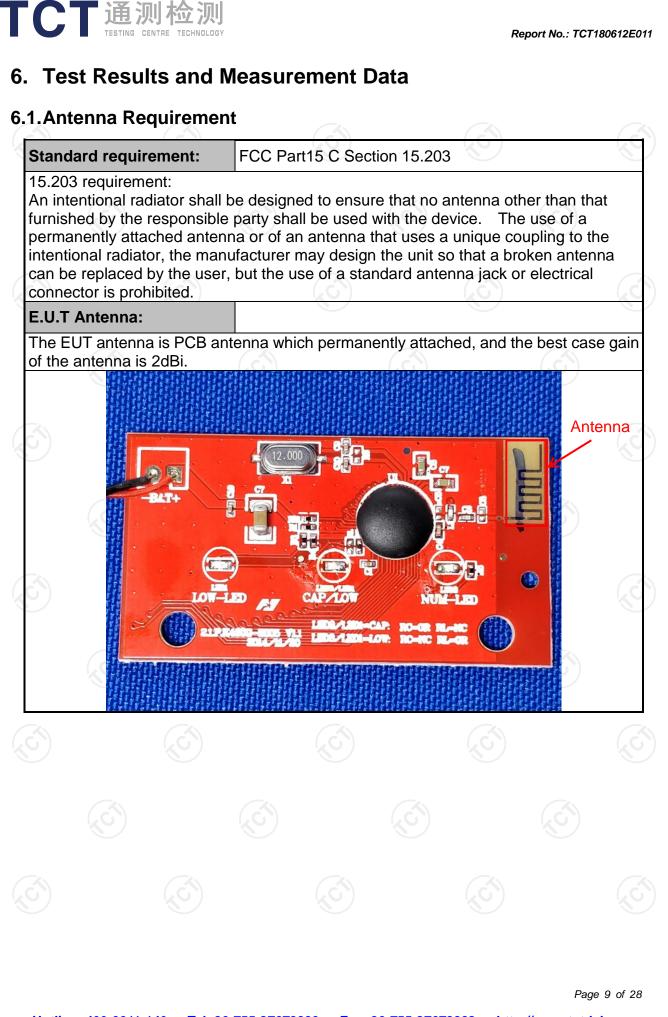
Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

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
1)	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%



6.2.Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207			
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto				
	Frequency range	Limit (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	ence Plane	e gener van 3		
Test Setup:	AUX Equipment Equipment Test table/Insulation pla Remarkc E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	U.T EMI Receiver	lter — AC power		
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 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:	N/A; Because the EUT item is not applicable.				

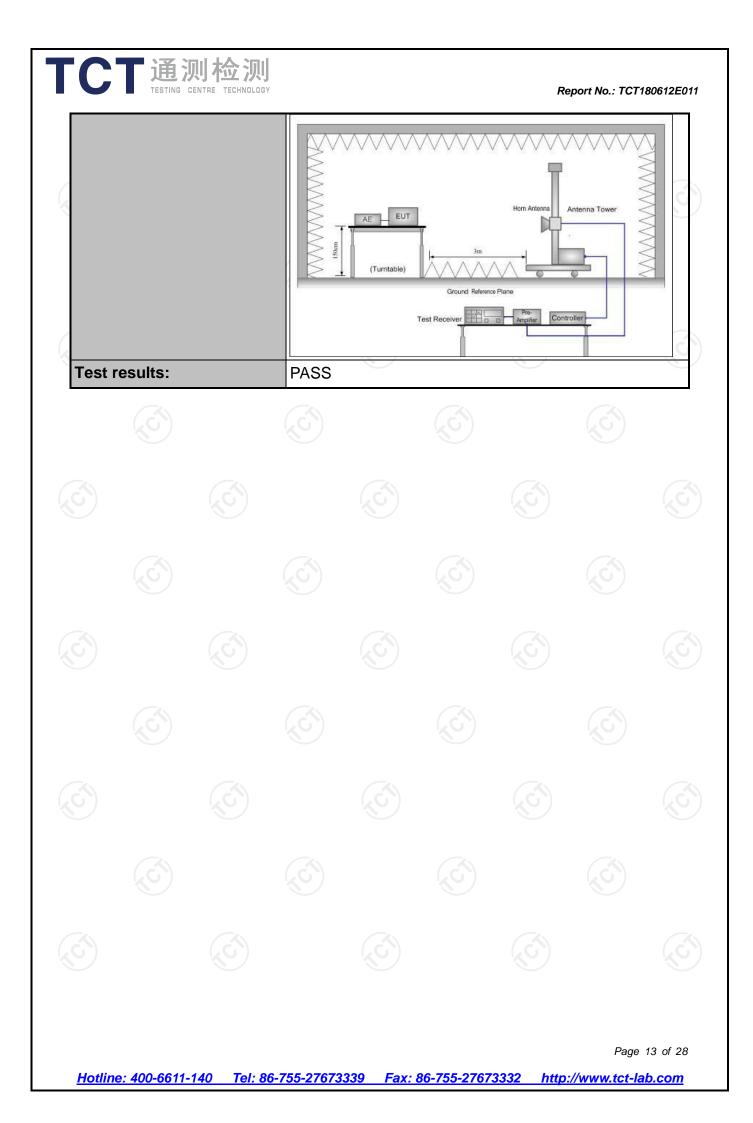
6.3. Radiated Emission Measurement

6.3.1. Test Specification

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Test Requirement:	FCC Part15	5 C Sectior	n 15.209/	Part 2 J	Section 2.1053			
Test Method:	ANSI C63.1	10:2013						
Frequency Range:	9 kHz to 25	GHz	<u>(</u>)		3MHz Peak Value 10Hz Average Value m@3m) Remark O Average Value			
Measurement Distance:	3 m							
Antenna Polarization:	Horizontal &	& Vertical						
	Frequency	Detector	RBW VBW		Remark			
	9kHz- 150kHz	Quasi-peak	200Hz					
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 TGHZ	Peak	1MHz	10Hz	Average Value			
Limit(Field strength of the	Freque	ency	Limit (dBu	V/m @3m)	Remark			
fundamental signal):	2400MHz-24		94.	.00	Average Value			
i undamental signal).	240010172-24	403.310112	114	.00	Peak Value			
	Freque	ency	Limit (dBu	V/m @3m)	Remark			
	0.009-0		2400/F	,	Quasi-peak Value			
	0.490-2	1.705	24000/	F(KHz)	Quasi-peak Value			
	1.705	5-30	3	0	Quasi-peak Value			
Limit(Spurious Emissions):	30MHz-8		40	.0	Quasi-peak Value			
	88MHz-2		43		Quasi-peak Value			
	216MHz-9		46		Quasi-peak Value			
	960MHz	-1GHz	54.0 54.0		Quasi-peak Value Average Value			
	Above	1GHz	54 74	-	Peak Value			
Limit (band edge) :	bands, exc least 50 dB general rad	ept for har below the diated em	monics, s level of t ission lir	shall be he funda nits in				
Test Procedure:	 least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209 whichever is the lesser attenuation. 1. The EUT was placed on the top of a rotating table 0. meters above the ground at a 3 meter chamber is below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees the determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounter on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to form meters above the ground to determine the maximum value of the field strength. Both horizontal an vertical polarizations of the antenna are set to make 							

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	 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 Computer Pre -Amplifier FUT Turn table Ground Plane
	30MHz to 1GHz
Test setup:	EUT Antenna Tower EUT Antenna 4m 4m 4m 4m 4m 1m Table 0.8m 1m Ground Plane
	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 Si	te (966)			
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018		
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018		
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018		
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018		
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018		
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018		
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018		
Horn Antenna	Schwarzbeck	BBH 9170	582	Sep. 27, 2018		
Antenna Mast	Keleto	CC-A-4M	N/A	N/A		
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018		
Coax cable (9KHz-40GHz)	отст	RE-high-02	N/A	Sep. 27, 2018		
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018		
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018		
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)
2408	78.77	Н	114	-35.23
2408	66.03	V	114	-47.97
2440	77.72	Н	114	-36.28
2440	66.45	V	114	-47.55
2474	78.46	(C)H	114	-35.54
2474	67.04	V	114	-46.96

Emission AV (dBuV/m)	Horizontal /Vertical	Limits AV (dBuV/m)	Margin (dB)
74.57	Н	94	-19.43
64.12	(C)V	94	-29.88
75.11	Н	94	-18.89
63.74	V	94	-30.26
74.86	н 🔏	94	-19.14
63.96	V	94	-30.04
	(dBuV/m) 74.57 64.12 75.11 63.74 74.86	(dBuV/m) /Vertical 74.57 H 64.12 V 75.11 H 63.74 V 74.86 H	(dBuV/m)/Vertical(dBuV/m)74.57H9464.12V9475.11H9463.74V9474.86H94

Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
(20 3)-	(JO) (JO)	- (, G`)
<u> </u>		

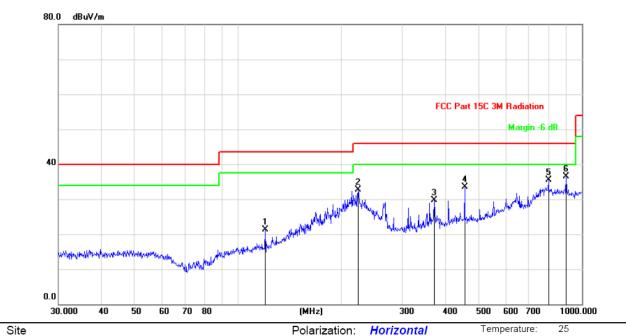
Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

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

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Frequency Range (30MHz-1GHz)

Horizontal:



Limit: FCC Part 15C 3M Radiation

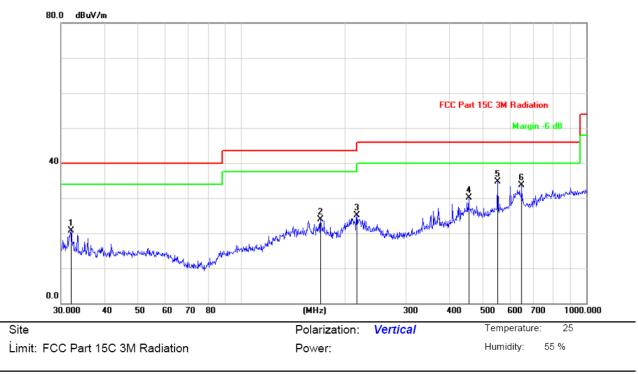
Power:

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		119.8556	35.55	-14.16	21.39	43.50	-22.11	peak			
2		222.9502	44.55	-11.85	32.70	46.00	-13.30	peak			
3		372.0045	36.25	-6.60	29.65	46.00	-16.35	peak			
4		455.9058	37.84	-4.29	33.55	46.00	-12.45	peak			
5		798.9797	33.65	1.88	35.53	46.00	-10.47	peak			
6	*	900.1474	33.25	3.29	36.54	46.00	-9.46	peak			

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Vertical:



MHz dBuV dB dBuV/m dB/m dB Detector cm degree Comment 1 32.0667 34.36 -13.59 20.77 40.00 -19.23 peak 2 169.5989 38.50 -14.60 23.90 43.50 -19.60 peak 2 169.5989 38.50 -12.12 25.04 46.00 -20.96 peak 2 25.9057 34.30 -4.29 30.01 46.00 -15.99 peak 2 25.28832 36.50 -1.87 34.63 46.00 -11.37 peak 2 25.28832 36.50 -1.87 34.63 46.00 -12.39 peak 2 <	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
2 169.5989 38.50 -14.60 23.90 43.50 -19.60 peak 3 216.0240 37.16 -12.12 25.04 46.00 -20.96 peak 4 455.9057 34.30 -4.29 30.01 46.00 -15.99 peak 5 * 552.8832 36.50 -1.87 34.63 46.00 -11.37 peak			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
3 216.0240 37.16 -12.12 25.04 46.00 -20.96 peak 4 455.9057 34.30 -4.29 30.01 46.00 -15.99 peak 5 * 552.8832 36.50 -1.87 34.63 46.00 -11.37 peak	1		32.0667	34.36	-13.59	20.77	40.00	-19.23	peak			
4 455.9057 34.30 -4.29 30.01 46.00 -15.99 peak 5 * 552.8832 36.50 -1.87 34.63 46.00 -11.37 peak	2		169.5989	38.50	-14.60	23.90	43.50	-19.60	peak			
5 * 552.8832 36.50 -1.87 34.63 46.00 -11.37 peak	3		216.0240	37.16	-12.12	25.04	46.00	-20.96	peak			
	4		455.9057	34.30	-4.29	30.01	46.00	-15.99	peak			
6 649.6597 34.01 -0.40 33.61 46.00 -12.39 peak	5	*	552.8832	36.50	-1.87	34.63	46.00	-11.37	peak			
	6		649.6597	34.01	-0.40	33.61	46.00	-12.39	peak			

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

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

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

				Low channe	el: 2408MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak		Peak limit (dBµV/m)		Margin (dB)
2387.50	Н	52.34		-4.20	48.14		74	54	-5.86
4816.00	Н	51.07		-3.94	47.13		74	54	-6.87
7224.00	Н	49.61		0.52	50.13		74	54	-3.87
				6					
2387.50	V	50.69	-4	-4.20	46.49	<u>, C -</u> -	74	54	-7.51
4816.00	V	49.87		-3.94	45.93		74	54	-8.07
7224.00	V	46.52		0.52	47.04		74	54	-6.96

Above 1GHz

			Ν	liddle chanr	el: 2440M	Hz			
Frequency	Ant Pol	Peak	AV	Correction	Emissic	on Level	Peak limit	A\/ limit	Margin
(MHz)	H/V	reading	reading	Factor	Peak	AV	(dBu\//m)	(dBµV/m)	(dB)
(101112)	I 1/ V	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(upp v/m)	(ασμν/π)	(UD)
4880.00	Н	52.09		-3.98	48.11		74	54	-5.89
7320.00	H	49.15		0.57	49.72		74	54	-4.28
×				((
4880.00	V	51.36		-3.98	47.38		74	54	-6.62
7320.00	V	49.12		0.57	49.69		74	54	-4.31
			- K)	\	<u>0</u>			

				High chann	el: 2474MH	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2486.58	Н	50.27		-2.38	47.89		74	54	-6.11
4948.00	Н	53.03		-3.98	49.05		74	54	-4.95
7422.00	Н	48.53		0.57	49.10		74	54	-4.90
			-+.c						
			N.)	(
2483.51	V	51.27		-2.38	48.89		74	54	-5.11
4948.00	V	52.43		-3.98	48.45		74	54	-5.55
7422.00	V	50.33		0.57	50.90		74	54	-3.10
<u>()</u>		(26)		(() `)				/2G

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)-Average 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

Low chann	el: 2408 M	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2400	Н	49.73	/	-4.2	45.53		74		-28.47
2400	Н		42.04	-4.2		37.84		54	-16.16
2400	V	48.15	(-4.2	43.95		74		-30.05
2400	V		39.26	-4.2		35.06		54	-18.94

High channel: 2474MU-

Froqueney	Ant. Pol. H/V	Peak	AV	Correction	Emission Level		Peak limit	A\/ limit	Morgin
(MHz)		reading (dBµV)	reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV		(dBµV/m)	Margin (dB)
2483.5	H	50.17		-4.2	45.97		74	()	-28.03
2483.5			41.35	-4.2		37.15		54	-16.85
			7						
2483.5	V	49.22		-4.2	45.02		74		-28.98
2483.5	V		40.58	-4.2	-	36.38		54	-17.62
		<u> </u>	/	1					

Note:

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

2. Margin (dB) = Emission Level (Peak/Average)(dB μ V/m)-(Peak/Average) 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.





6.4.1. Test Specification

TCT通测检测 TESTING CENTRE TECHNOLOGY

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

6.4.2. Test Instruments

(RF Test Room							
0	Equipment Manufacturer		Model	Serial Number	Calibration Due			
	Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018			

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



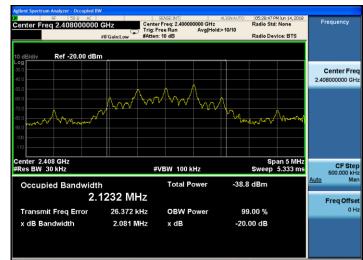
6.4.3. Test data

	Test Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion		
<	Lowest	2081		PASS		
	Middle	2085		PASS		
	Highest	2089	(PASS		
_						

Test plots as folic

Test plots as follo	ws:						
<u>Hotline: 400-6611</u>	<u>-140 Tel: 8</u>	6-755-27673	3339 Fax:	<u>86-755-2767</u>	<u>3332 http</u>	Page ://www.tct-la	21 of 28 1 b.com

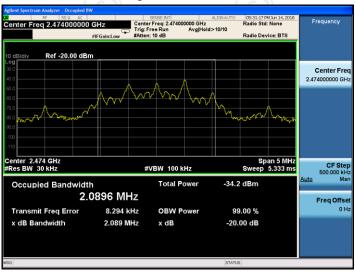
Lowest channel



Middle channel



Highest channel



Report No.: TCT180612E011

