TEST REPORT

FCC ID: 2AKG5-TC08 Product: DOG TRAINING SYSTEM Model No.: TC08 Additional Model No.: N/A

Trade Mark: CARE Report No.: TCT200731E025 Issued Date: Aug. 19, 2020

Issued for:

SHENZHEN DOGCARE INNOVATION & TECHNOLOGY CO., LTD. Room 201, Building A, No. 1 Qianwan Road, Qianhai Shenzhen-HK Cooperation Zone, Shenzhen, China

Issued By:

Shenzhen Tongce Testing Lab. 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China TEL: +86-755-27673339

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TABLE OF CONTENTS

1.	Test Certification	on	No.		No.	 3
2.	Test Result Sur					4
3.	EUT Descriptio					5
4.	General Inform					6
	4.1. Test Environm					
	4.2. Description o	f Support Unit	s			 6
5.	Facilities and A					
	5.1. Facilities					
	5.2. Location					
	5.3. Measurement	Uncertainty		\sim		7
6.	Test Results an					
	6.1. Antenna Requ					
	6.2. Conducted Er	mission	\sim		\sim	 9
	6.3. Radiated Emi					-
	6.4. Manually Acti					21
	6.5. Occupied Bar	ndwidth				23
Ар	pendix A: Photo	graphs of Te	est Setup			
Ар	opendix B: Photo	graphs of El	UT 🕜			
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Test Cert	tification
Product:	DOG TRAINING SYSTEM
Model No.:	TC08
Additional Model No.:	N/A
Frade Mark:	DOG CARE
Applicant:	SHENZHEN DOGCARE INNOVATION & TECHNOLOGY CO., LTD.
Address:	Room 201, Building A, No. 1 Qianwan Road, Qianhai Shenzhen-HK Cooperation Zone, Shenzhen, China
Manufacturer:	SHENZHEN DOGCARE INNOVATION & TECHNOLOGY CO., LTD.
Address:	Room 201, Building A, No. 1 Qianwan Road, Qianhai Shenzhen-HK Cooperation Zone, Shenzhen, China
Date of Test:	Aug. 03, 2020 – Aug. 19, 2020
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.231

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: Aug. 19, 2020 Date: Kevin Huang M **Reviewed By:** Date: Aug. 19, 2020 Beryl Zhao omsm Approved By: Date: Aug. 19, 2020 Tomsin Page 3 of 33

					D
Requireme Conduction Emi			7 Section		Result
0.15MHz to 30 Manually Activ	MHz		5.207		PASS
Transmitte	r 📃		.231(a)	_	PASS
Radiation Emis	sion		15.205, §15.20 15.35	9,	PASS
Occupied Band	width	§15	.231(c)	S	PASS
e: 1. PASS: Test item med 2. Fail: Test item does 3. N/A: Test case does 4. The test result judgm	not meet the requinit	irement. est object.	andard.		



3. EUT Description

Product:	DOG TRAINING SYSTEM	
Model No.:	TC08	
Additional Model No.:	N/A	
Trade Mark:	DOG CARE	
Operation Frequency:	434.57MHz	
Modulation Technology:	FSK	
Antenna Type:	Spring Antenna	
Antenna Gain:	3dBi	
Power Supply:	Rechargeable Li-ion Battery DC 3.7V	

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

Page 5 of 33

General	nformation			
. Test Envir	onment and M	lode		$\langle G \rangle$
Operating Env	vironment:			
Temperature	e:	25.0 °	с С	
Humidity:	No.	55 % I	RH	No.
Atmospheric	c Pressure:	1010 r	nbar	
Test Mode:				
Operation m	node:		he EUT in conti odulation	inuous transmitting
nterconnecting both horizontal	cables, rotating t and vertical polar	he turntable, vary	/ing antenna he	ight from 1m to 4m in
nterconnecting both horizontal shown in Test F test mode. have verified the c	cables, rotating t and vertical polar Results of the follo construction and func	he turntable, vary izations. The em owing pages. tion in typical operat	ving antenna he issions worst-ca ion, The EUT was	ight from 1m to 4m in ase (Y axis) are placed on three different p
nterconnecting both horizontal shown in Test F test mode. have verified the o ctions; i.e. X axis,	cables, rotating t and vertical polar Results of the follo	he turntable, van izations. The em owing pages. tion in typical operat was shown in this te	ving antenna he issions worst-ca ion, The EUT was est report and defin	ight from 1m to 4m in ase (Y axis) are placed on three different p ied as follows:
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2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

Page 6 of 33

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.

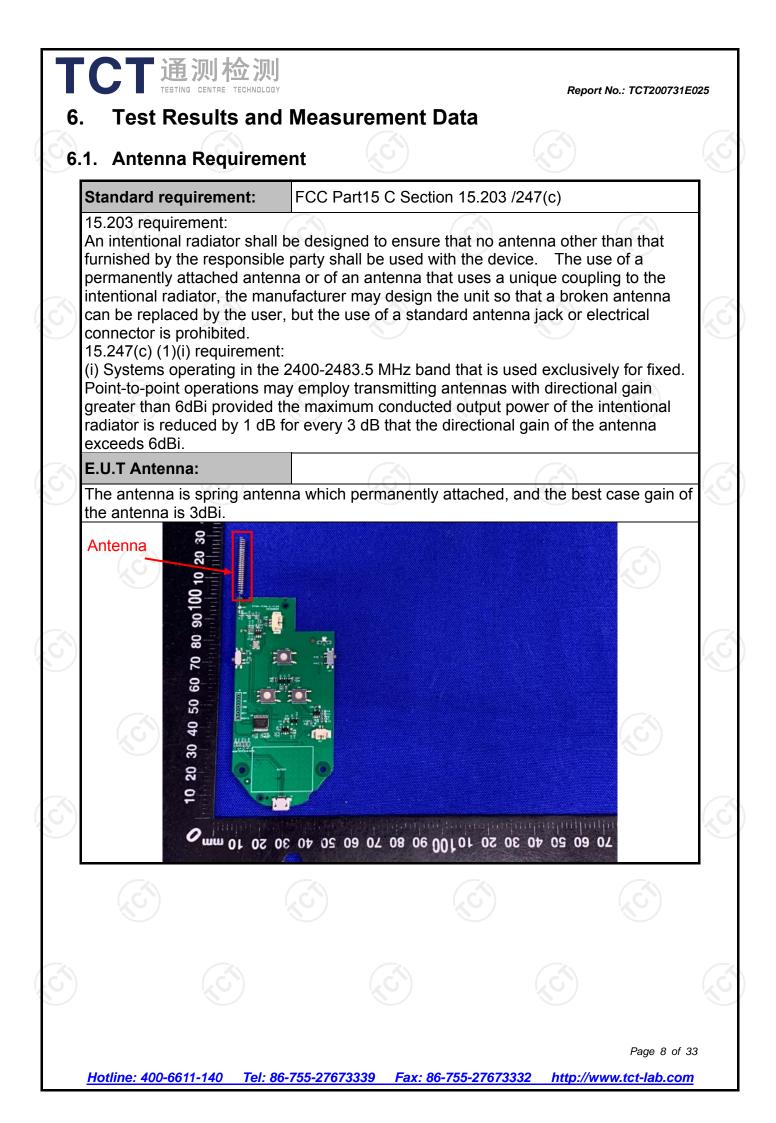
Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

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(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%



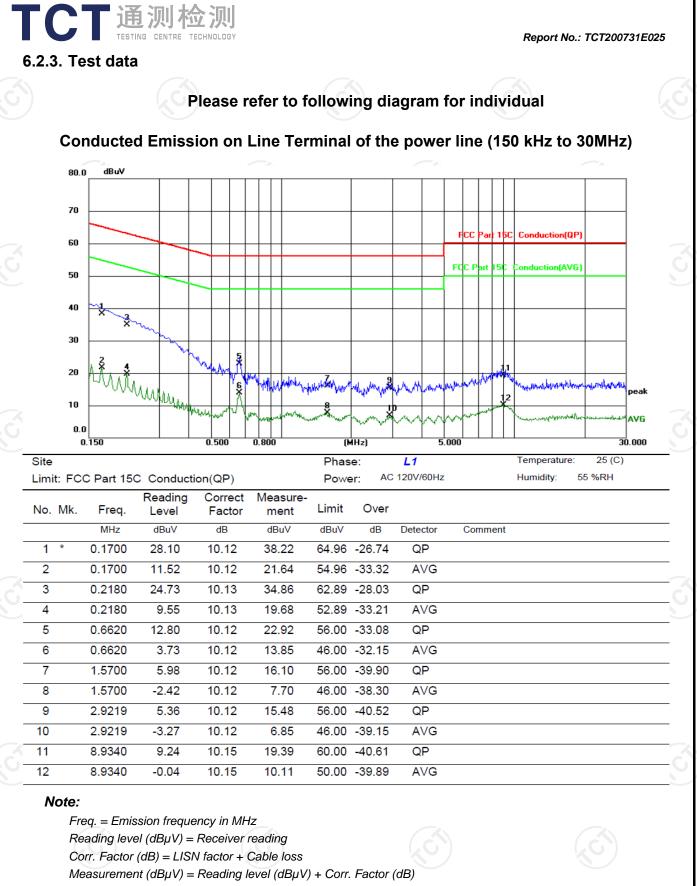
2. Conducted Emiss .1. Test Specification			
Test Requirement:	FCC Part15 C Section	15.207	
Fest Method:	ANSI C63.4:2014		
Frequency Range:	150 kHz to 30 MHz		
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto
.imits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (0 Quasi-peak 66 to 56* 56 60	dBuV) Average 56 to 46* 46 50
	Refere	ence Plane	
Гest Setup:	AUX Equipment Equipment E.I Test table/Insulation pla Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilizatio Test table height=0.8m	U.T ane	l <u>ter</u>
Гest Setup: Гest Mode:	Equipment E.I Test table/Insulation pla Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilizatio	U.T ane	iter _ AC power
	Equipment E.I. Test table/Insulation pla Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilizatio Test table height=0.8m	U.T ane EMI Receiver ane ane Metwork Ulators are connect e impedance stab ovides a 500hm heasuring equipment ces are also connect SN that provides e with 500hm term diagram of the line are checked nce. In order to fir e positions of equipment s must be chang	cted to the main pilization network n/50uH coupling ent. ected to the main a 50ohm/50uH nination. (Please test setup and ed for maximum nd the maximum ipment and all of led according to

6.2.2. Test Instruments

Cond	lucted Emission	Shielding R	oom Test Site (8	43)
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).

Page 10 of 33



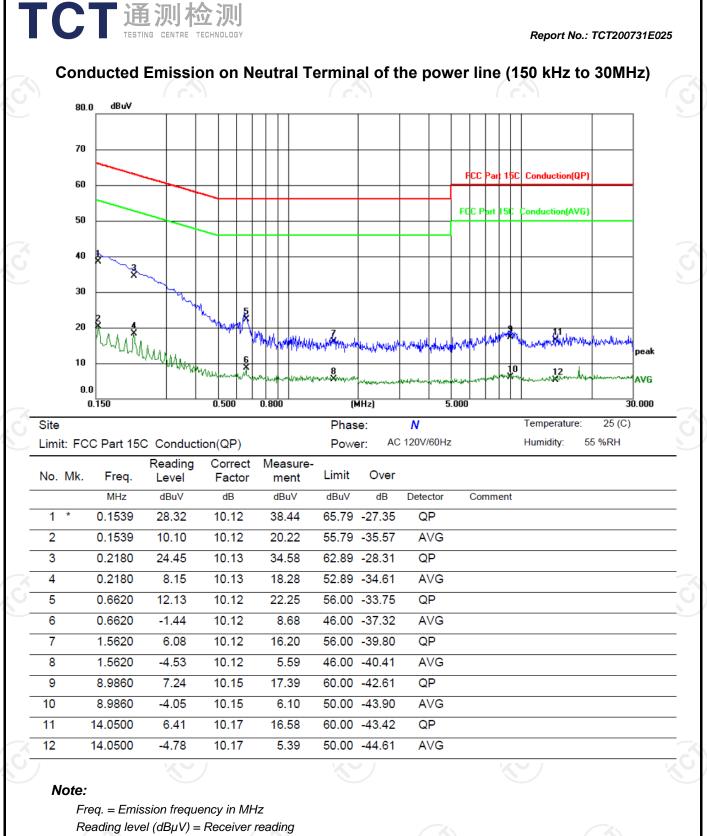
Limit ($dB\mu V$) = Limit stated in standard

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.

Page 11 of 33



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.

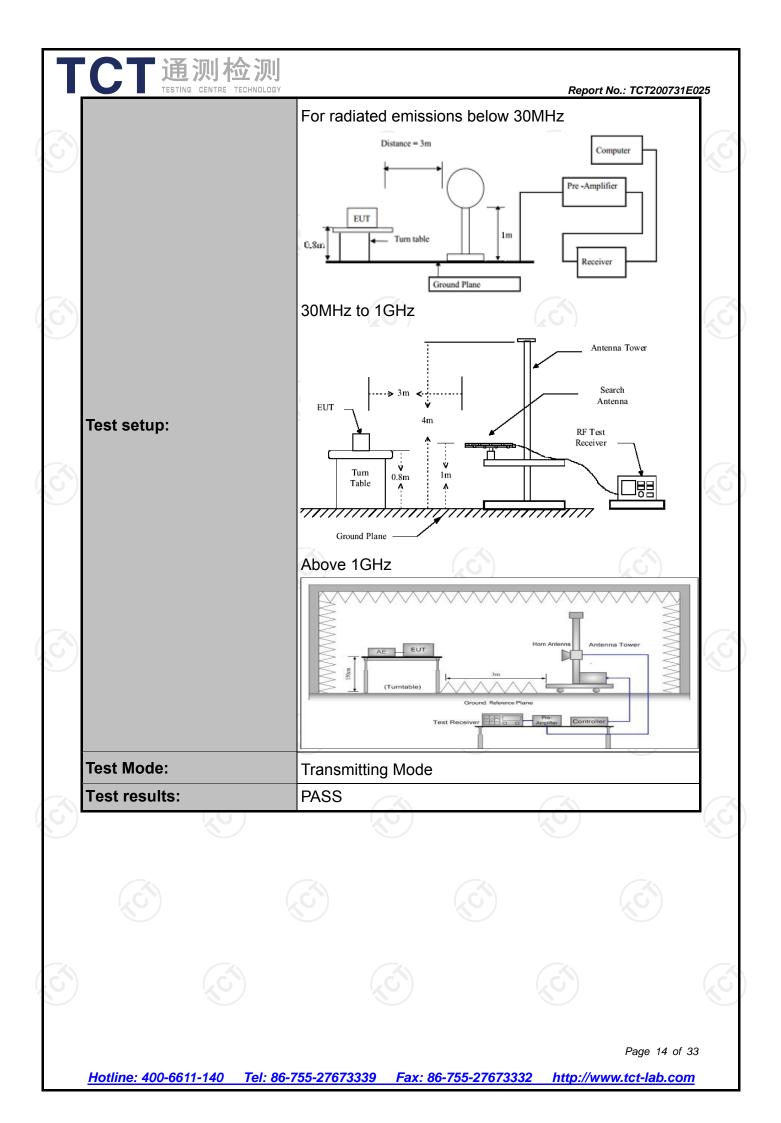
Page 12 of 33

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6.3. Radiated Emission Measurement

Test Requirement:	FCC Part15	C Section	15.231(a) and 15	.209
Test Method:	ANSI C63.4:		•		
Frequency Range:	9 kHz to 5 G	Hz	\mathbf{S}		
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal &	Vertical			
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz	Detector Quasi-peak Quasi-peak Quasi-peak Peak	RBW 200Hz 9kHz 120KHz 1MHz	VBW 1kHz 30kHz 300KHz 3MHz	Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak Value
	Above 1GHz	Peak	1MHz	10Hz	Average Value
	 below 10 1GHz. T determine 2. The EU interferen on the top 3. The anter meters at value of vertical p the meas 4. For each s to its wor heights fr table was find the m 5. The test- Function Hold Mode 6. If the emi 10dB lowe be stopped 	GHz, 1.5m The table the position Twas some the position Twas some the position the position	n above was ro on of the et 3 m ng anten ble-heigh is varied round to strength s of the a emission d then the er to 4 m om 0 deg eading. ystem w cified Ba l of the B limit spec beak value	the gro tated 36 highest heters a na, which tantenr from on determin tantenna a , the EU he antenr neters ar grees to ras set t ndwidth EUT in p cified, the esions the	way from the h was mounted a tower. he meter to four e the maximum horizontal and are set to make T was arranged ha was tuned to a was tuned to 360 degrees to with Maximum beak mode wa en testing could at did not have

Page 13 of 33



6.3.2. Limit

Fundamental Frequency (MHz)	Filed Strength of Fundamental (microvolts/meter)	Filed Strength of Spurious Emission (microvolts/meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750*	125 to 375*
174-260	3750	375
260-470	3750 to 12500*	375 to 1250*
Above 470	12500	1250
Horn Antenna	Schwarzbeck	BBHA 9120D
inear interpolations		

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

For the band 130-174 MHz, μ V/m at 3 meters = 56.81818(F) - 6136.3636;

for the band 260-470 MHz, μ V/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

For EUT

Fundamental Frequency (MHz)	Filed Strength of Fundamental (dBµV/m)	Filed Strength of Spurious Emission(dBµV/m)
434.57	80.85	60.85
limits on the field strength of err measured emissions. 2.According to 15.35, on any frequ on measuring equipment emplo bandwidths, unless otherwise s maximum permitted average err 3. According to 15.231(b), The lim on the fundamental frequency of average (or, alternatively, CISP	under the provisions of this Section shall nissions, as shown in the above table, be uency or frequencies below or equal to 1 bying a CISPR quasi-peak detector funct pecified the limit on peak radio frequence mission limit applicable to the equipment nits on the field strength of the spurious e of the intentional radiator. Spurious emis PR quasi-peak) limits shown in this table	ased on the average value of the 1000 MHz, the limits Shown are based tion and related measurement cy emissions is 20dB above the t under test. emissions in the above table is based asions shall be attenuated to the
Section 15.209, whichever limit	t permits one higher field strength.	
Section 15.209, whichever limit		
Section 15.209, whichever limit		

Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)		
0.009-0.490	3	20log 2400/F (kHz) + 80		
0.490-1.705	3	20log 24000/F (kHz) + 4		
1.705-30	3	20log 30 + 40		
30-88	3	40.0		
88-216	3	43.5		
216-960	3	46.0		
Above 960	3	54.0		

Note:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position. 5. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula

Ld1 = Ld2 * (d2/d1)

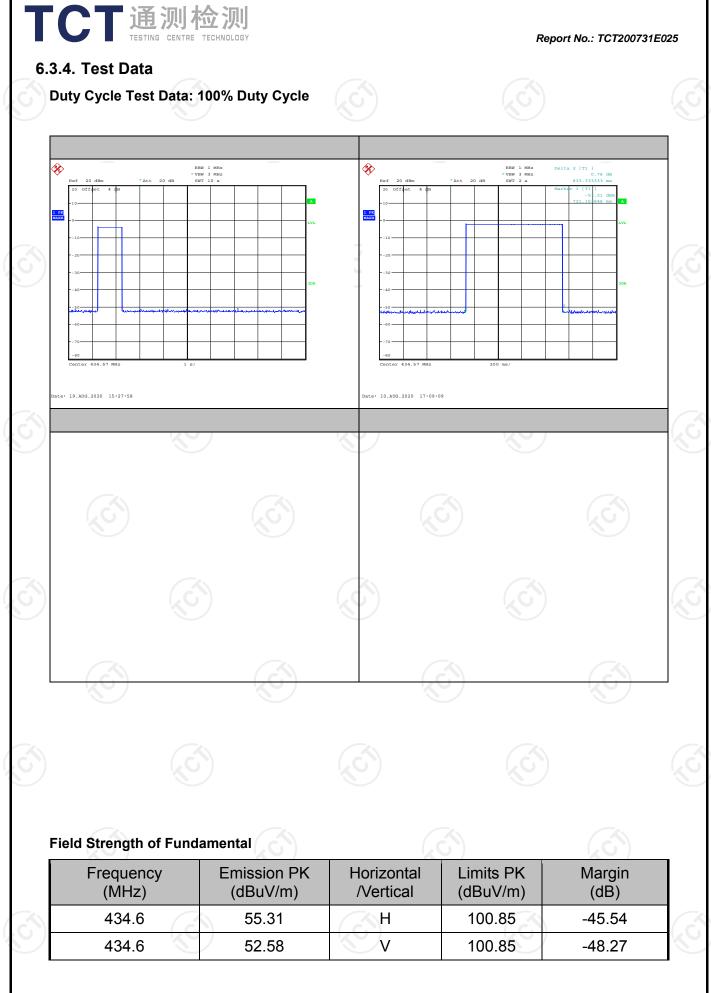
Report No.: TCT200731E025

6.3.3. Test Instruments

TCT通测检测 TESTING CENTRE TECHNOLOGY

		ion Test Site (96		1	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
ESPI Test Receiver	ROHDE&SCHWARZ	ESIB7	100197	Jul. 27, 2021	
Spectrum Analyzer	ROHDE&SCHWARZ	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	Oct. 27, 2020	
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 06, 2020	
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 06, 2020	
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 06, 2020	
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 08, 2020	
Coax cable (9KHz-40GHz)	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).



Page 18 of 33

Frequency	nge (9 kHz-30 [,] (MHz)		l@3m (dBµ∖	//m)	Limit@3m ((dBµV/m)
(\mathbf{c})		(\circ)				
						-
	on Level=Reading ission levels are i ment				ported. It is deeme	əd to comply t

Below	1GHz							
Quasi-peak Value Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
34.16	45.71	11.25	0.60	30.08	27.48	40.00	-12.52	Vertical
54.07	39.45	11.93	0.81	29.97	22.22	40.00	-17.78	Vertical
88.03	40.28	10.60	1.09	29.76	22.21	43.50	-21.29	Vertical
142.32	40.83	7.37	1.52	29.44	20.28	43.50	-23.22	Vertical
327.89	32.44	14.03	2.51	29.84	19.14	46.00	-26.86	Vertical
537.59	36.35	18.19	3.47	29.30	28.71	46.00	-17.29	Vertical
32.29	30.17	11.25	0.58	30.09	11.91	40.00	-28.09	Horizontal
75.98	42.32	7.35	0.99	29.82	20.84	40.00	-19.16	Horizontal
91.82	41.83	10.98	1.12	29.74	24.19	43.50	-19.31	Horizontal
157.56	47.75	8.02	1.62	29.37	28.02	43.50	-15.48	Horizontal
283.98	36.48	13.01	2.29	29.90	21.88	46.00	-24.12	Horizontal
362.99	44.03	6 14.74	2.68	29.67	31.78	46.00	-14.22	Horizontal

Above 1GHz (PK value)

TCT通测检测 TESTING CENTRE TECHNOLOGY

Frequency PK Value (MHz)	Read Level PK (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level PK (dBuV/m)	Limit Line PK (dBuV/m)	Over Limit (dB)	Polarization
1370.00	37.63	25.66	4.59	33.39	34.49	74.00	-39.51	Vertical
2355.00	37.15	27.69	5.34	34.05	36.13	74.00	-37.87	Vertical
3415.00	37.37	28.67	6.80	32.85	39.99	74.00	-34.01	Vertical
4150.00	33.56	30.06	8.01	32.01	39.62	74.00	-34.38	Vertical
4695.00	33.84	31.65	8.51	32.03	41.97	74.00	-32.03	Vertical
5645.00	30.71	32.36	9.72	32.35	40.44	74.00	-33.56	Vertical
1430.00	36.54	25.42	4.64	33.47	33.13	74.00	-40.87	Horizontal
2410.00	36.49	27.57	5.40	33.99	35.47	74.00	-38.53	Horizontal
3395.00	37.83	28.60	6.76	32.87	40.32	74.00	-33.68	Horizontal
4115.00	30.12	29.95	7.97	32.05	35.99	74.00	-38.01	Horizontal
4635.00	31.48	31.57	8.46	32.01	39.50	74.00	-34.50	Horizontal
5590.00	28.96	32.22	9.63	32.38	38.43	74.00	-35.57	Horizontal

Note:

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

2. Margin (dB) = Emission Level (dB μ V/m)- 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. Manually Activated Transmitter

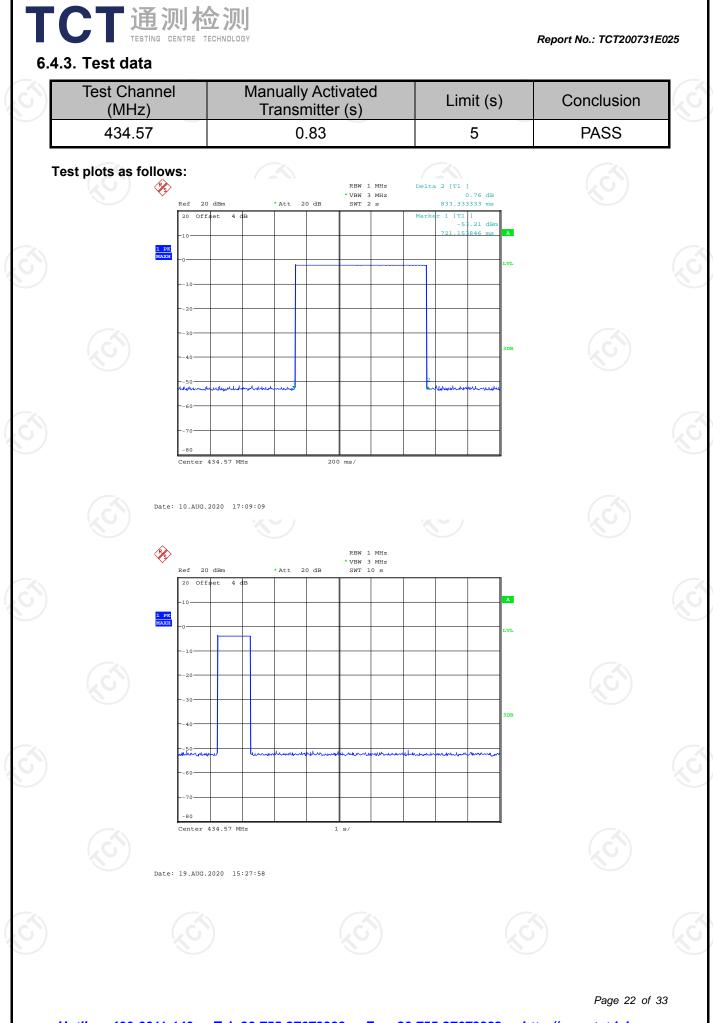
6.4.1. Test Specification

-					
Test Requirement:	FCC Part15 C Section 15.231(a)(1)				
Test Method:	ANSI C63.10: 2013				
Limit:	According to 15.231(a), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.				
	 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. VBW = 1MHz, VBW ≥ RBW; Span = 0; Sweep Time = 5s; Detector function = peak; Measure and record the results in the test report. 				
Test setup:	Spectrum Analyzer EUT				
Test Mode:	Transmitting Mode				

6.4.2. Test Instruments

RF Test Room							
Equipment Manufacturer Model Serial Number Calibrat							
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).



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



6.5. Occupied Bandwidth

TCT通测检测 TESTING CENTRE TECHNOLOGY

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231C
Test Method:	ANSI C63.10: 2013
Limit:	According to 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the centre frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the centre frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.
	 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
Test results:	PASS

6.5.2. Test Instruments

RF Test Room						
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).



