

TEST REPORT

FCC ID: 2AKG5-EC11

Product: WELL-D Dog Training System

Model No.: EC11

Additional Model No.: N/A

Trade Mark: DOG CARE

Report No.: TCT201207E014

Issued Date: Dec. 15, 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 FAX: +86-755-27673332

Note: This report shall not be reproduced except in full, without the written approval of Shenzhen Tongce Testing Lab.

This document may be altered or revised by Shenzhen Tongce Testing Lab. personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

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

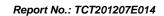




TABLE OF CONTENTS

1.	Test Certification	3
2.	Test Result Summary	 4
3.	EUT Description	5
4.	General Information	6
	4.1. Test Environment and Mode	
	4.2. Description of Support Units	 6
5.	Facilities and Accreditations	7
	5.1. Facilities	
	5.2. Location	
	5.3. Measurement Uncertainty	7
6.	Test Results and Measurement Data	
	6.1. Antenna Requirement	 8
	6.2. Conducted Emission	9
	6.3. Radiated Emission Measurement	
	6.4. Manually Activated Transmitter	
	6.5. Occupied Bandwidth	23
Αp	pendix A: Photographs of Test Setup	
Аp	pendix B: Photographs of EUT	



1. Test Certification

Report No.: TCT201207E014

Product:	WELL-D Dog Training System				
Model No.:	EC11				
Additional Model No.:	N/A				
Trade 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:	Dec. 08, 2020 – Dec. 14, 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.

Tested By:

Lles

Date: Dec. 14, 2020

Plac

Reviewed By:

Benyl zharo

Date: Dec. 15, 2020

Beryl Zhao

Approved By:

Tomsm

Tomsin

Date:

Dec. 15, 2020

Page 3 of 34

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



2. Test Result Summary

Requirement	CFR 47 Section	Result			
Conduction Emission, 0.15MHz to 30MHz	§15.207	PASS			
Manually Activated Transmitter	§15.231(a)(1)	PASS			
Radiation Emission	§15.231(b), §15.205, §15.209, §15.35	PASS			
Occupied Bandwidth	§15.231(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.





3. EUT Description

Product:	WELL-D Dog Training System
Model No.:	EC11
Additional Model No.:	N/A
Trade Mark:	DOG CARE
Operation Frequency:	433.92MHz
Modulation Technology:	FSK
Antenna Type:	Spring Antenna
Antenna Gain:	-1.5dBi
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.





4. General Information

4.1. Test Environment and Mode

Operating Environment:								
Temperature:	25.0 °C							
Humidity:	55 % RH							
Atmospheric Pressure:	1010 mbar							
Test Mode:	Test Mode:							
Operation mode:	Keep the EUT in continuous transmitting with modulation							

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 (Y axis) are shown in Test Results of the following pages.

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Υ	Z	
Field Strength(dBuV/m)	52.47	55.23	52.59	

Final Test Mode:

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup": Y axis (see the test setup photo)

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
	1 (6)	1	(6)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
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%

Page 7 of 34



6. Test Results and Measurement Data

6.1. Antenna Requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

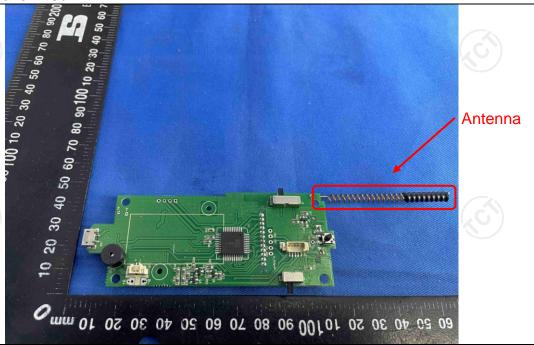
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is spring antenna which permanently attached, and the best case gain of the antenna is -1.5dBi.



Page 8 of 34





6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.4:2014						
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz					
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto				
Frequency range Limit (dBuV) Quasi-peak Ave							
Test Setup:	Reference Plane LISN 40cm 80cm Filter AC power Equipment Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m						
Test Mode:	Transmitting Mode	(0)					
Test Procedure:	1. The E.U.T and simulation power through a line (L.I.S.N.). This profession impedance for the magnetic power through a LIS coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferent emission, the relative the interface cables ANSI C63.4: 2014 or	e impedance stabeling a 50 measuring equipment of the SN that provides with 50 measuring of the line are checked ace. In order to fire positions of equipment of the state of	ilization network /50uH coupling ent. ected to the main a 50ohm/50uH nination. (Please test setup and d for maximum of the maximum ipment and all of ed according to				
Test Result:	PASS						



6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)									
Equipment	Manufacturer	Model	Serial Number	r Calibration Due					
Test Receiver	R&S	ESPI	101402	Jul. 27, 2021					
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2021					
coaxial cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 02, 2021					
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).



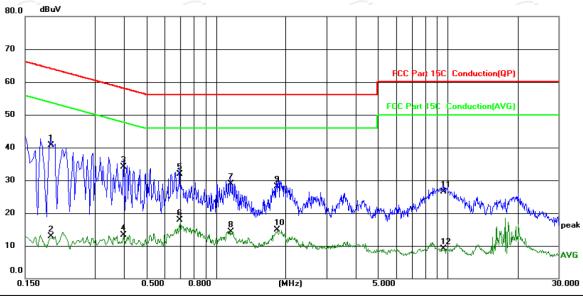


6.2.3. Test data

Report No.: TCT201207E014

Please refer to following diagram for individual

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



Site	Phase:	L1	Temperature: 25 (C)
Limit: FCC Part 15C Conduction(QP)	Power:	AC120V 60Hz	Humidity: 55 %RH

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
-			MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector	Comment	
_	1	*	0.1940	30.57	10.11	40.68	63.86	-23.18	QP		
_	2		0.1940	2.74	10.11	12.85	53.86	-41.01	AVG		
_	3		0.3980	23.92	10.13	34.05	57.90	-23.85	QP		-
_	4		0.3980	3.18	10.13	13.31	47.90	-34.59	AVG		Į.
_	5		0.6940	21.82	10.15	31.97	56.00	-24.03	QP		
_	6		0.6940	7.72	10.15	17.87	46.00	-28.13	AVG		
_	7		1.1580	18.78	10.18	28.96	56.00	-27.04	QP		
-	8		1.1580	4.22	10.18	14.40	46.00	-31.60	AVG		
_	9		1.8260	17.96	10.23	28.19	56.00	-27.81	QP		
_	10		1.8260	4.60	10.23	14.83	46.00	-31.17	AVG		
<	11		9.6020	15.92	10.62	26.54	60.00	-33.46	QP		
) -	12		9.6020	-1.42	10.62	9.20	50.00	-40.80	AVG		
-											

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 (dBµV) = Limit stated in standard

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

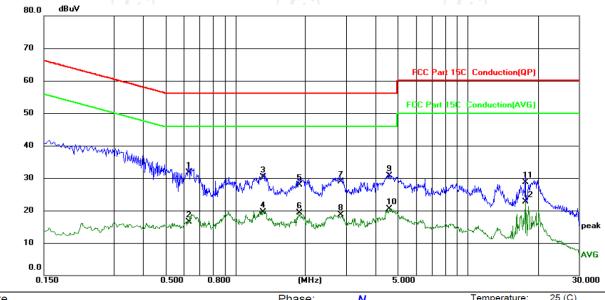
Q.P. =Quasi-Peak

AVG =average

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



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



Site	i ilase.	IN	romporataro.	20 (0
Limit: FCC Part 15C Conduction(QP)	Power:	AC120V 60Hz	Humidity:	55 %RH

) -	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBu∀	dBu∀	dB	Detector	Comment
_	1	*	0.6300	21.60	10.14	31.74	56.00	-24.26	QP	
_	2		0.6300	6.40	10.14	16.54	46.00	-29.46	AVG	
_	3		1.3099	20.12	10.20	30.32	56.00	-25.68	QP	
	4		1.3099	9.30	10.20	19.50	46.00	-26.50	AVG	
_	5		1.8820	17.74	10.24	27.98	56.00	-28.02	QP	
<	6		1.8820	9.15	10.24	19.39	46.00	-26.61	AVG	
) -	7		2.8300	18.55	10.29	28.84	56.00	-27.16	QP	
	8		2.8300	8.48	10.29	18.77	46.00	-27.23	AVG	
_	9		4.5780	20.38	10.38	30.76	56.00	-25.24	QP	
_	10		4.5780	10.03	10.38	20.41	46.00	-25.59	AVG	
	11		17.6940	17.45	11.23	28.68	60.00	-31.32	QP	
_	12		17.6940	11.42	11.23	22.65	50.00	-27.35	AVG	

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)

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

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

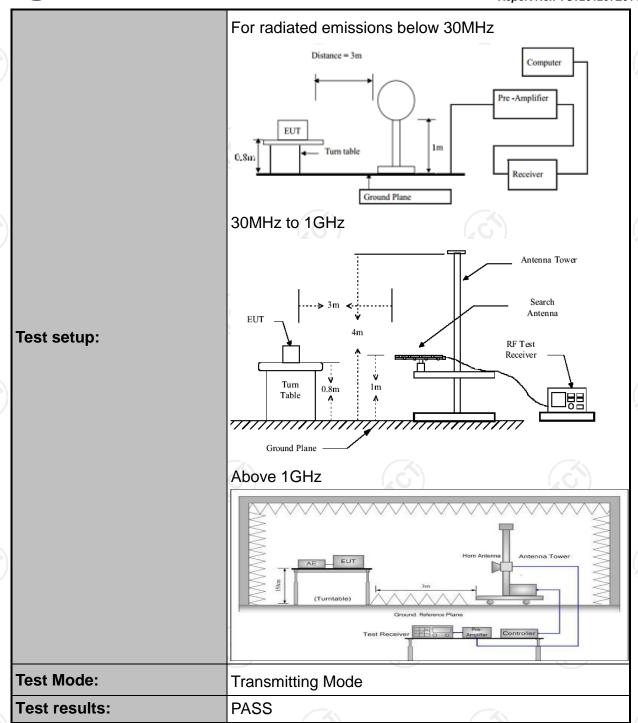
^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



6.3. Radiated Emission Measurement

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231(b) and 15.209					
Test Method:	ANSI C63.4: 2014 and ANSI C63.10:2013					
Frequency Range:	9 kHz to 5 G	Hz				
Measurement Distance:	3 m					
Antenna Polarization:	Horizontal &	Vertical				
	Frequency 9kHz- 150kHz	Detector Quasi-peak	RBW 200Hz	VBW 1kHz	Remark Quasi-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value	
	Above 1CHz	Peak	1MHz	3MHz	Peak Value	
	Above 1GHz	Peak	1MHz	10Hz	Average Value	
	meters a below 10 1GHz. To determine 2. The EU interferer on the top 3. The anter meters all value of vertical puthe meas 4. For each such to its work heights find the meas find the me	bove the galactic bove the position of a variation	ground an above was rot on of the et 3 ming antenible-height is varied ound to distrength as of the action of the Edimit special be re-terayerage responses to the emission of the Edimit special be re-terayerage responses to the emission of the Edimit special be re-terayerage responses to the emission of the Edimit special be re-terayerage responses to the emission of the emission	the grotated 36 highest eters and which the EU enternance of the sions the sted one method at the sted one method	way from the h was mounted	





TESTING CENTRE TECHNOLOGY Report No.: TCT201207E014

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

*Linear 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)
433.92	80.83	60.83

Note:

- 1. Intentional radiators operating under the provisions of this Section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions
- 2.According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits Shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test.
- 3. According to 15.231(b), The limits on the field strength of the spurious emissions in the above table is based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in Section 15.209, whichever limit permits one higher field strength.

Page 15 of 34



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) + 40
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)





6.3.3. Test Instruments

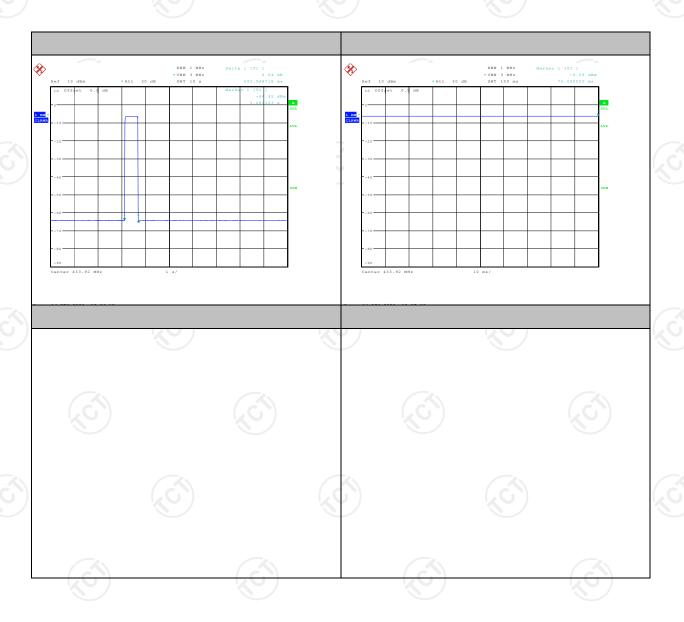
	Radiated Emiss	ion Test Site (96	56)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESPI Test Receiver	ROHDE&SCHWARZ	ESIB7	100197	Jul. 27, 2021
Spectrum Analyzer	ROHDE&SCHWARZ	FSQ40	200061	Sep. 11, 2021
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 02, 2021
Pre-amplifier	HP	8447D	2727A05017	Sep. 02, 2021
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 04, 2022
Coaxial cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 02, 2021
Coaxial cable (9KHz-40GHz)	TCT	RE-high-04	N/A	Jul. 27, 2021
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).



6.3.4. Test Data

Duty Cycle Test Data: 100% Duty Cycle





Page 18 of 34



Field Strength of Fundamental

Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
433.92	55.23	Н	100.85	-45.62
433.92	52.50	V	100.85	-48.35

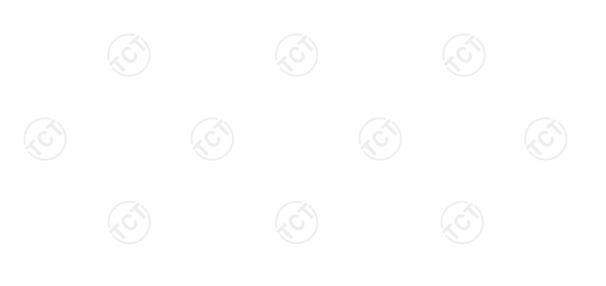
Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
(0)	(0)	(0)

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





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	45.55	11.25	0.60	30.08	27.32	40.00	-12.68	Vertical
54.07	39.63	11.93	0.81	29.97	22.40	40.00	-17.60	Vertical
88.03	40.42	10.60	1.09	29.76	22.35	43.50	-21.15	Vertical
142.32	40.74	7.37	1.52	29.44	20.19	43.50	-23.31	Vertical
327.89	32.66	14.03	2.51	29.84	19.36	46.00	-26.64	Vertical
537.59	36.47	18.19	3.47	29.30	28.83	46.00	-17.17	Vertical
32.29	30.12	11.25	0.58	30.09	11.86	40.00	-28.14	Horizontal
75.98	42.51	7.35	0.99	29.82	21.03	40.00	-18.97	Horizontal
91.82	41.94	10.98	1.12	29.74	24.30	43.50	-19.20	Horizontal
157.56	47.38	8.02	1.62	29.37	27.65	43.50	-15.85	Horizontal
283.98	36.48	13.01	2.29	29.90	21.88	46.00	-24.12	Horizontal
362.99	44.11	14.74	2.68	29.67	31.86	46.00	-14.14	Horizontal

Above 1GHz (PK value)

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	37.44	25.66	4.59	33.39	34.30	74.00	-39.70	Vertical
2355.00	37.27	27.69	5.34	34.05	36.25	74.00	-37.75	Vertical
3415.00	37.12	28.67	6.80	32.85	39.74	74.00	-34.26	Vertical
4150.00	33.43	30.06	8.01	32.01	39.49	74.00	-34.51	Vertical
4695.00	33.89	31.65	8.51	32.03	42.02	74.00	-31.98	Vertical
5645.00	30.95	32.36	9.72	32.35	40.68	74.00	-33.32	Vertical
1430.00	36.51	25.42	4.64	33.47	33.10	74.00	-40.90	Horizontal
2410.00	36.42	27.57	5.40	33.99	35.40	74.00	-38.60	Horizontal
3395.00	37.68	28.60	6.76	32.87	40.17	74.00	-33.83	Horizontal
4115.00	30.19	29.95	7.97	32.05	36.06	74.00	-37.94	Horizontal
4635.00	31.40	31.57	8.46	32.01	39.42	74.00	-34.58	Horizontal
5590.00	28.91	32.22	9.63	32.38	38.38	74.00	-35.62	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.

Page 20 of 34



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					
Test results:	PASS					

6.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2021

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

Page 21 of 34

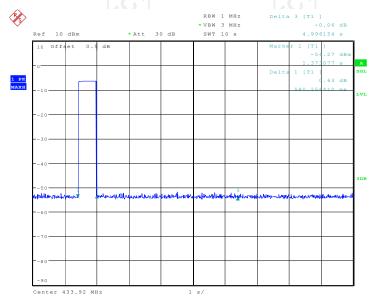
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



6.4.3. Test data

٦	Test Channel (MHz)	Manually Activated Transmitter (s)	Limit (s)	Conclusion
	433.92	0.58	5	PASS

Test plots as follows:











6.5. Occupied Bandwidth

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, 2021

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

Page 23 of 34

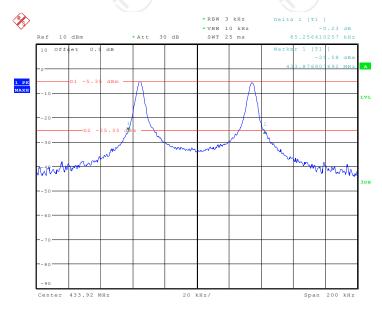


6.5.3. Test data

Test Channel (MHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
433.92	85.26	1084.80	PASS

Note: Limit = 433.92MHz *0.25% = 1084.80 kHz

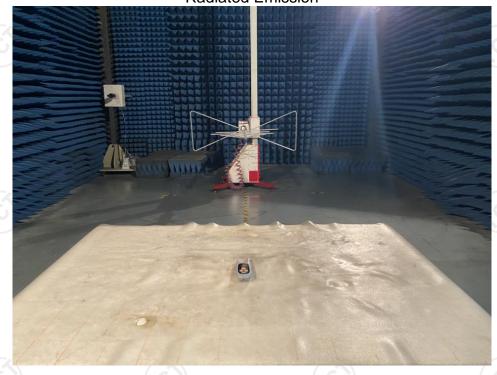
Test plots as follows:



Date: 14.DEC.2020 13:14:43



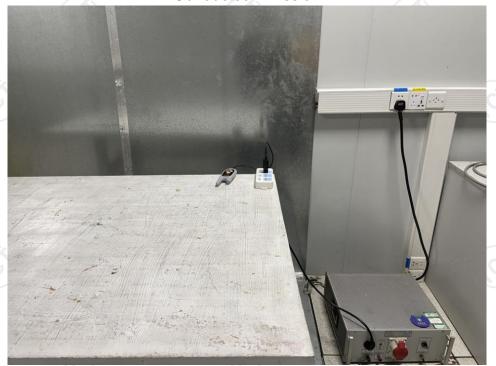
Appendix A: Photographs of Test Setup
Product: WELL-D Dog Training System
Model: EC11 **Radiated Emission**







Conducted Emission











































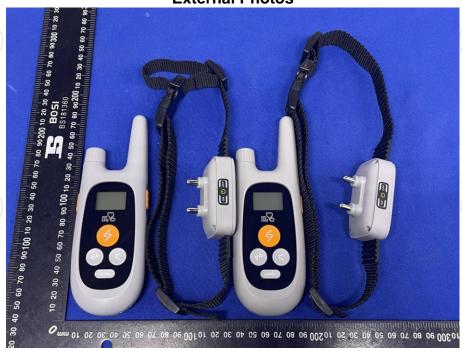






Appendix B: Photographs of EUT

Product: WELL-D Dog Training System
Model: EC11
External Photos





TCT通测检测
TESTING CENTRE TECHNOLOGY



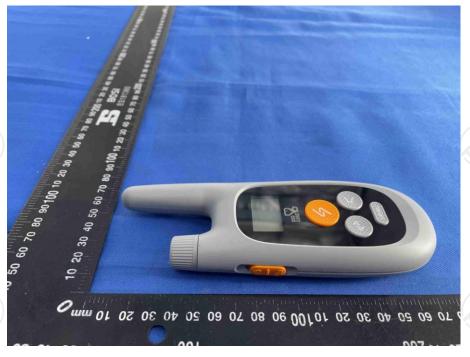


TCT通测检测 testing centre technology





TCT通测检测
TESTING CENTRE TECHNOLOGY































































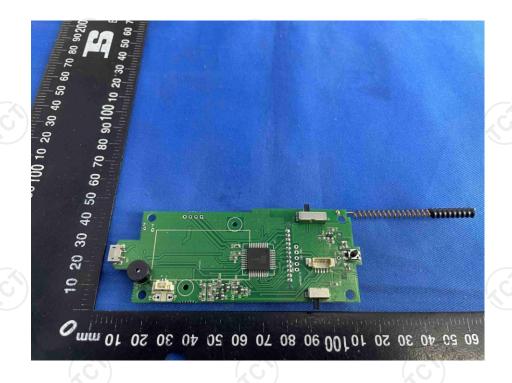
Product: WELL-D Dog Training System
Model: EC11
Internal Photos



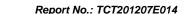






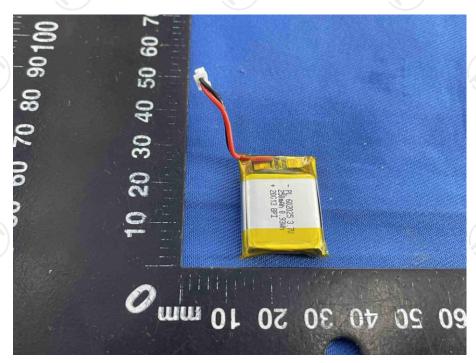












****END OF REPORT****