

TEST REPORT

FCC ID: 2AVEN-CF516

Product: Electronic scale

Model No.: CF516

Additional Model No.: Please refer to page 5

Trade Mark: N/A

Report No.: TCT191209E019

Issued Date: Dec. 23, 2019

Issued for:

Shenzhen Unique Scales Co., Ltd Floor 3 & 6, Building A, No. 22, Huanping Road, Gaoqiao Community, Pingdi Street, Longgang District, Shenzhen, Guangdong, China

Issued By:

Shenzhen Tongce Testing Lab.

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1. Test Certification

Report No.: TCT191209E019

Product:	Electronic scale				
Model No.:	CF516				
Additional Model No.:	Please refer to page 5				
Trade Mark:	N/A				
Applicant:	Shenzhen Unique Scales Co., Ltd				
Address:	Floor 3 & 6, Building A, No. 22, Huanping Road, Gaoqiao Community, Pingdi Street, Longgang District, Shenzhen, Guangdong, China				
Manufacturer:	Shenzhen Unique Scales Co., Ltd				
Address: Floor 3 & 6, Building A, No. 22, Huanping Road, Gaoqiao Commun Pingdi Street, Longgang District, Shenzhen, Guangdong, China					
Date of Test:	Dec. 10, 2019 – Dec. 20, 2019				
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013				

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:	Laron Mo	Date:	Dec. 20, 2019	
	Aaron Mo	(_e		
Reviewed By:	Beryl zhao	Date:	Dec. 23, 2019	
(0)	Beryl Zhao	(C)	(6)	
Approved By:	Tomsin	Date:	Dec. 23, 2019	
(6)	Tomsin	Ţ	(0)	



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	N/A
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	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:	Electronic scale		
Model No.:	CF516		
Additional Model No.:	CF366, CF367, CF368, CF369, CF372, CF373, CF375, CF376, CF377, CF378, CF379, CF380, CF381, CF382, CF383, CF385, CF386, CF387, CF388, CF389, CF390, CF391, CF392, CF393, CF395, CF396, CF397, CF398, CF399, CF500, CF501, CF502, CF503, CF505, CF506, CF507, CF508, CF509, CF510, CF511, CF512, CF513, CF515, CF517, CF518, CF519, CF520, CF521, CF522, CF523, CF525, CF526, CF527, CF528, CF529, CF530, CF550, CF551, CF552, CF553, CF554, CF555, CF556, CF557, CF558, CF559, CF560, CF561, CF562, CF563, CF565, CF566, CF567, CF568, CF569, CF570		
Trade Mark:	N/A		
Bluetooth Version:	V4.2		
Operation Frequency: 2402MHz~2480MHz			
Channel Separation:	2MHz		
Number of Channel:	40		
Modulation Technology:	GFSK		
Antenna Type:	PCB Antenna		
Antenna Gain:	2dBi		
Power Supply:	DC 4.5V(3*AAA Batteries)		
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.		

Operation Frequency each of channel

Operatio	ii i requenc	y cacii o	Citatillei				_
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9 2420MHz 19 2440MHz 29 2460MHz 39 2480MHz							
Remark:	Remark: Channel 0, 19 & 39 have been tested.						



4. General Information

4.1. Test environment and mode

Operating Environment:					
Condition	Conducted Emission	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 new 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
1 (6)	1		1	(6)

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.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



TESTING CENTRE TECHNOLOGY Report No.: TCT191209E019

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
9	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%



6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

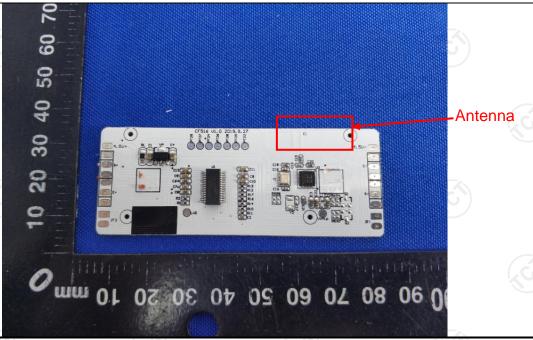
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 Bluetooth antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 2dBi.





6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207	E C		
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	<u>(()</u>	(C)		
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto		
Limits:	Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46 0.5-5 56 46 5-30 60 50				
	Refere	nce Plane	1201		
Test Setup:	Adapter E.U.T Adapter Filter AC power EMI Receiver Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
Test Mode:	Charging + Transmitting Mode				
Test Procedure:	 The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 				



6.3. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
Test Method:	KDB 558074 D01 v05r02				
Limit:	30dBm				
Test Setup:	Spectrum Analyzer EUT				
Test Mode:	Refer to item 4.1				
Test Procedure:	Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 x RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.				
Test Result:	PASS				

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020
Antenna Connector	тст	RFC-01	N/A	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).

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6.3.3. Test Data

BT LE mode			
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
Lowest	-1.55	30.00	PASS
Middle	-1.01	30.00	PASS
Highest	-0.86	30.00	PASS

Test plots as follows:

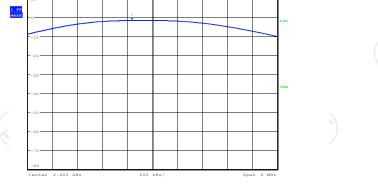


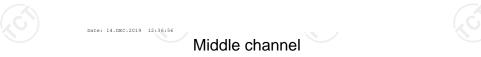


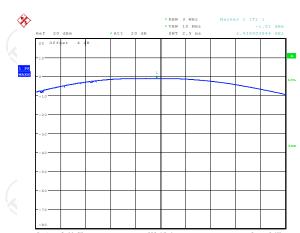
BT LE mode

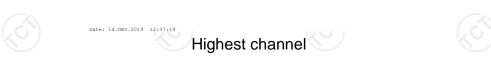
Lowest channel

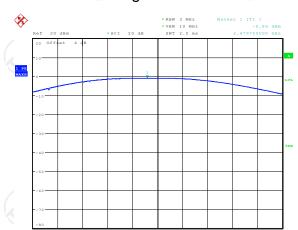












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6.4. Emission Bandwidth

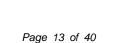
6.4.1. Test Specification

FCC Part15 C Section 1	5.247 (a)(2)	KC		
KDB 558074 D01 v05r02				
>500kHz		(c^{i})		
Spectrum Analyzer	EUT			
Refer to item 4.1				
EUT transmit continue. 2. Make the measurement resolution bandwidth Video bandwidth (VE) an accurate measure be greater than 500	iously. Int with the spectors (RBW) = 100 ks (BW) = 300 kHz. Interpretation in the first sement. The 6dB kHz.	etrum analyzer's Hz. Set the In order to make bandwidth must		
PASS	3)	(3)		
	Spectrum Analyzer Refer to item 4.1 1. Set to the maximum process and the second state of the second stat	>500kHz Spectrum Analyzer Refer to item 4.1 1. Set to the maximum power setting an EUT transmit continuously. 2. Make the measurement with the spect resolution bandwidth (RBW) = 100 k Video bandwidth (VBW) = 300 kHz. an accurate measurement. The 6dB be greater than 500 kHz. 3. Measure and record the results in the		

6.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020
Antenna Connector	TCT	RFC-01	N/A	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).





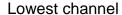
6.4.3. Test data

Toot channel	6dB Emission Bandwidth (kHz)			
Test channel	BT LE mode	Limit	Result	
Lowest	850.96 >500k		0	
Middle	875.00	PASS		
Highest	841.35	>500k		

s as follow	s:			

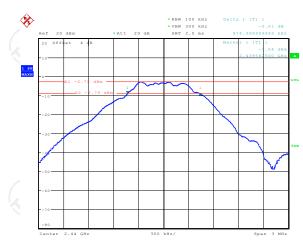


BT LE mode

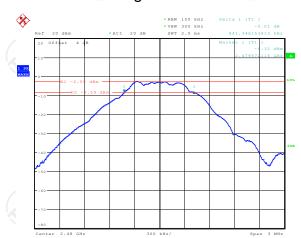








Highest channel



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6.5. Power Spectral Density

6.6. Test Specification

FCC Part15 C Section 15.247 (e)		
KDB 558074 D01 v05r02		
The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.		
EUT EUT		
Spectrum Analyzer		
Refer to item 4.1		
 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 		
PASS		

6.6.1. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020	
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020	
Antenna Connector	тст	RFC-01	N/A	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).



6.6.2. Test data

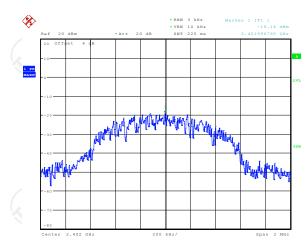
Test channel	Power Spectral Density (dBm/3kHz)				
rest channel	BT LE mode	Limit	Result		
Lowest	-19.14	8 dBm/3kHz	0		
Middle	-18.80	8 dBm/3kHz	PASS		
Highest	-18.30	8 dBm/3kHz			

Test plots as follows:

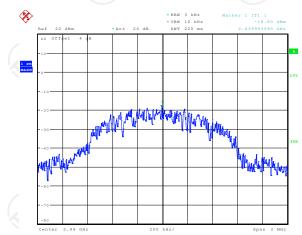




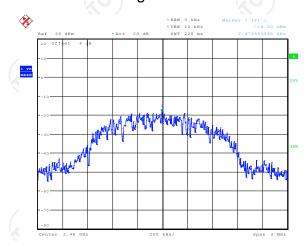
Lowest channel







Highest channel



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6.7. Conducted Band Edge and Spurious Emission Measurement

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	KDB 558074 D01 v05r02				
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).				
Test Setup:	Structure Analysis EUT				
Test Mode:	Refer to item 4.1				
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 				
Test Result:	PASS				

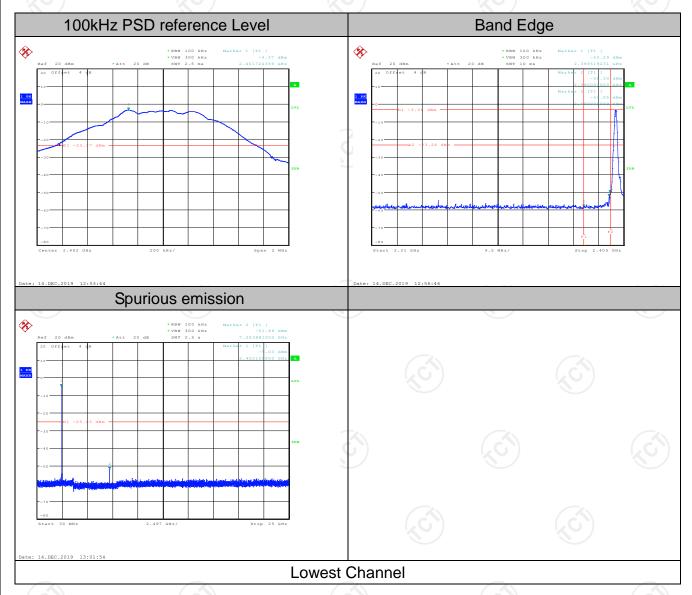


6.7.2. Test Instruments

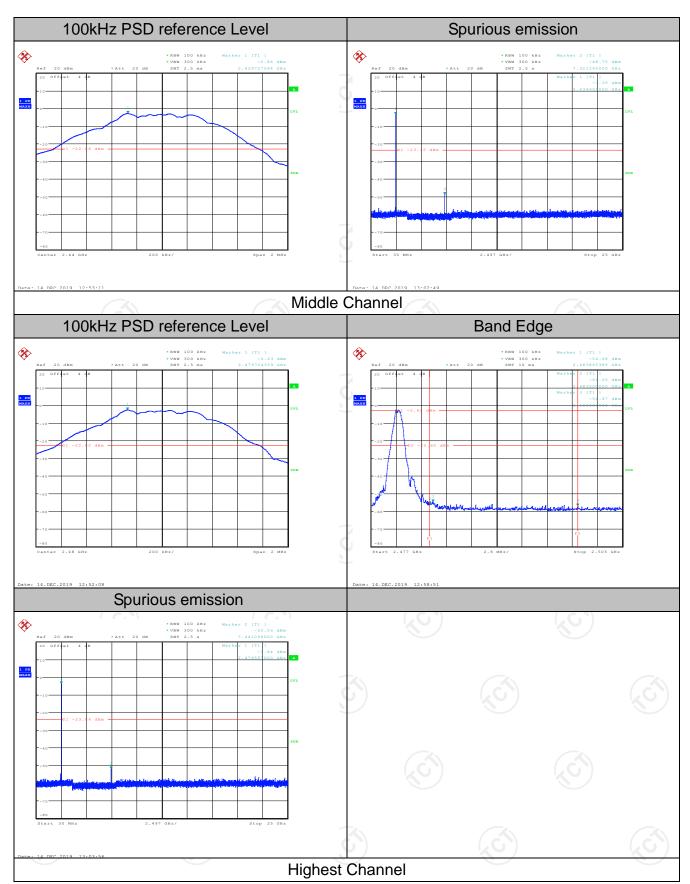
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2020

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

6.7.3. Test Data







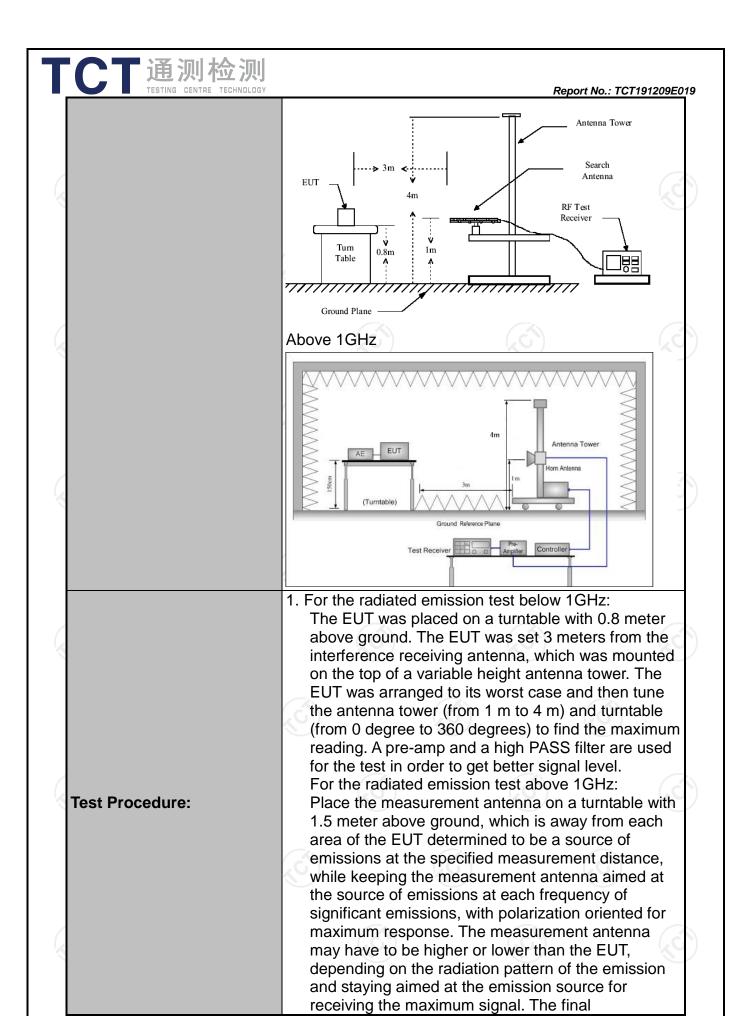




6.8. Radiated Spurious Emission Measurement

6.8.1. Test Specification

		<u> </u>					
Test Requirement:	FCC Part15	FCC Part15 C Section 15.209					
Test Method:	ANSI C63.10: 2013						
Frequency Range:	9 kHz to 25 (9 kHz to 25 GHz					
Measurement Distance:	3 m				100		
Antenna Polarization:	Horizontal &	Vertical					
Operation mode:	Refer to item	Refer to item 4.1					
	Frequency	Detector	RBW	VBW		Remark	
	9kHz- 150kHz	Quasi-pea	k 200Hz	1kHz	Quas	i-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-pea	k 9kHz	30kHz	Quas	i-peak Value	
·	30MHz-1GHz	Quasi-pea	k 120KHz	300KHz	Quas	i-peak Value	
	Al 4011-	Peak	1MHz	3MHz	Pe	eak Value	
	Above 1GHz	Peak	1MHz	10Hz		rage Value	
	_ (3		Field Stre	ength	Mea	asurement	
	Frequen	icy	(microvolts		Distance (meters		
	0.009-0.490		2400/F(KHz)		300		
	0.490-1.705		24000/F(KHz)		30		
	1.705-30		30		30		
	30-88		100		3		
	88-216		150		3		
Limit:	216-960		200			3	
	Above 9	60	500			3	
		<u> </u>				1/20	
	II Fredilency I		Field Strength microvolts/meter) Measu Dist			Detector	
	Above 1GHz	. (500	3	(0	Average	
	Above IGHZ	2	5000	3		Peak	
	For radiated	emission	s below 30)MHz			
	Di	stance = 3m					
					Compu	ter	
	Pre -Amplifier						
Test setup:	0.8m	Turn table	lm	_ 	Receiver		
	30MHz to 10	5) T)	nd Plane			Ć	



TESTING CENTRE TECHNOLOGY	Report No.: TCT191209E01
	measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB
	 lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace =
	max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f >1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mode:	Refer to section 4.1 for details
Test results:	PASS (d)







6.8.2. Test Instruments

	Radiated Em	ission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 29, 2020
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-1GHz)	тст	RE-low-01	N/A	Sep. 08, 2020
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 08, 2020
Coax cable (9KHz-1GHz)	тст	RE-low-03	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).

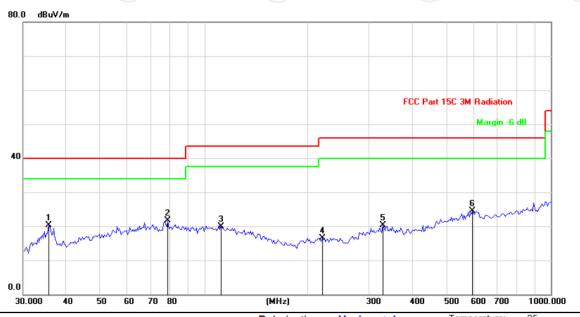


6.8.3. Test Data

Please refer to following diagram for individual

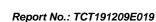
Below 1GHz

Horizontal:



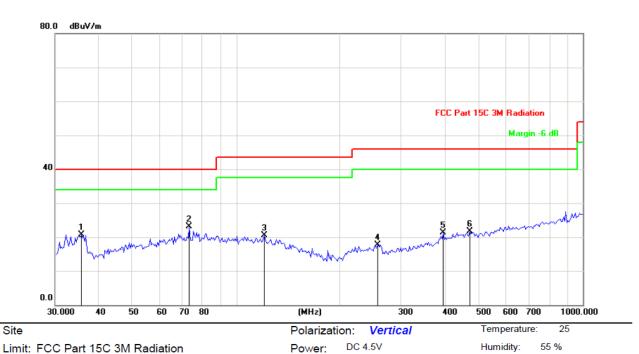
Site Polarization: Horizontal Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: DC 4.5V Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		35.5112	31.25	-11.04	20.21	40.00	-19.79	peak
2	*	78.5644	38.17	-16.55	21.62	40.00	-18.38	peak
3		111.6397	29.23	-9.31	19.92	43.50	-23.58	peak
4		219.1785	29.98	-13.45	16.53	46.00	-29.47	peak
5	;	327.1553	30.64	-10.25	20.39	46.00	-25.61	peak
6		594.5143	30.41	-5.92	24.49	46.00	-21.51	peak





Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		35.7616	31.66	-11.03	20.63	40.00	-19.37	peak
2	*	73.2330	39.05	-15.98	23.07	40.00	-16.93	peak
3		120.6118	32.21	-11.78	20.43	43.50	-23.07	peak
4		255.8224	30.06	-12.38	17.68	46.00	-28.32	peak
5		395.5070	30.26	-9.01	21.25	46.00	-24.75	peak
6		471.4664	29.65	-7.92	21.73	46.00	-24.27	peak

Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

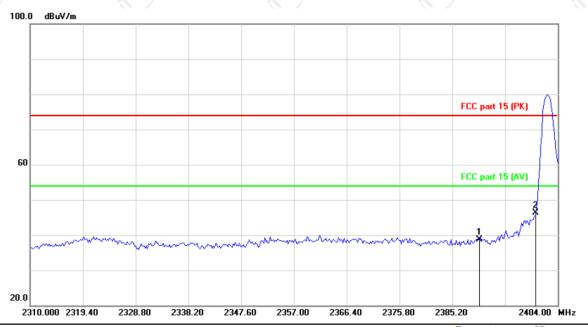
- 2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Highest channel) was submitted only.
- Freq. = Emission frequency in MHz
 Measurement (dBμV/m) = Reading level (dBμV) + Corr. Factor (dB)
 Correction Factor= Antenna Factor + Cable loss Pre-amplifier
 Limit (dBμV/m) = Limit stated in standard
 Margin (dB) = Measurement (dBμV/m) Limits (dBμV/m)
 Any value more than 10dB below limit have not been specifically reported.
 - * is meaning the worst frequency has been tested in the test frequency range.



Test Result of Radiated Spurious at Band edges

Lowest channel 2402:

Horizontal:



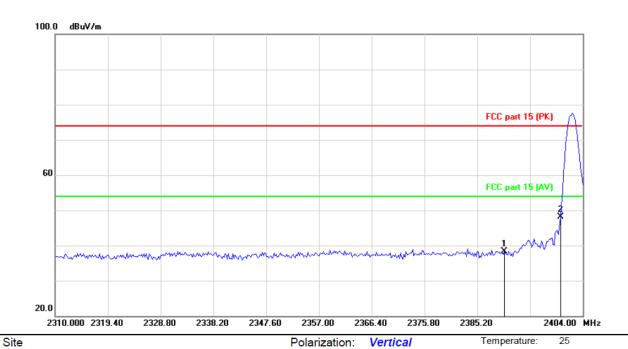
Site Polarization: Horizontal Temperature: 25
Limit: FCC part 15 (PK) Power: DC 4.5V Humidity: 55 %

	No.	Mk	c. Freq.			Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
-	1		2390.000	51.92	-13.15	38.77	74.00	-35.23	peak
_	2	*	2400.000	59.42	-13.12	46.30	74.00	-27.70	peak





Vertical:



Limit: FCC part 15 (PK) Power: DC 4.5V Humidity: 55 %

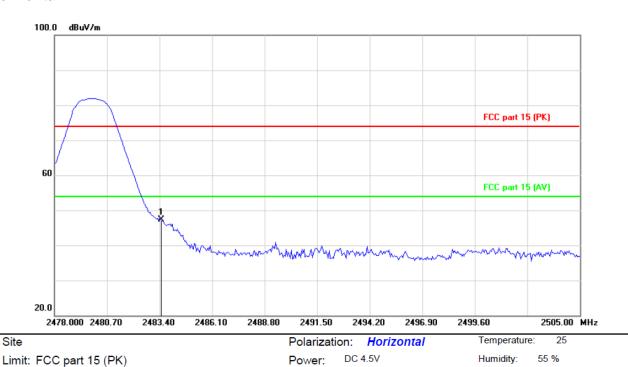
No. N	Лk.	Freq.			Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	2	390.000	51.54	-13.15	38.39	74.00	-35.61	peak
2 *	2	400.000	61.31	-13.12	48.19	74.00	-25.81	peak





Highest channel 2480:

Horizontal:

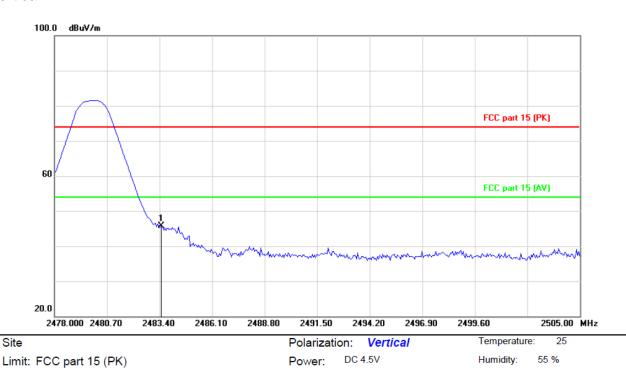


N	lo.	Mk	. Freq.			Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
	1	*	2483.500	60.19	-12.84	47.35	74.00	-26.65	peak



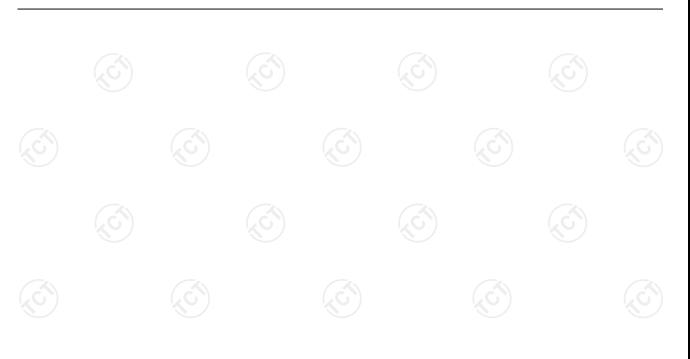


Vertical:



No. Mi	c. Freq.	Reading Co Freq. Level Fa		Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1 *	2483.500	58.53	-12.84	45.69	74.00	-28.31	peak

Power:





Above 1GHz

L	ow chann	el: 2402 N	1Hz							
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
	4804	Η	46.58		0.66	47.24		74	54	-6.76
	7206	Η	36.38		9.50	45.88		74	54	-8.12
		Η								
	4804	V	45.49		0.66	46.15	<u> </u>	74	54	-7.85
	7206	V	37.75		9.50	47.25	<i></i>	74	54	-6.75
		V				-		-		

	Middle cha	nnel: 2440) MHz								
Frequency (MHz)		Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
	4880	Н	45.89		0.99	46.88		74	54	-7.12	
	7320	H	39.75		9.85	49.6		74	54	-4.40	
		(CH)		- -			(C) 1 -		(, 0')		
	4880	V	44.83		0.99	45.82		74	54	-8.18	
	7320	V	38.93		9.85	48.78		74	54	-5.22	
		V			((_/	

Lligh shopp	al. 2400 N	/LI=							
High chann	iei. 2460 iv								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4960	(AH)	46.52	-140	1.33	47.85	(O.)-	74	54	-6.15
7440	Н	38.31)	10.22	48.53)	74	54	-5.47
	Н								
					-,.				
4960	V	45.43		1.33	46.76		74	54	-7.24
7440	V	37.67		10.22	47.89		74	54	-6.11
	V								

Note:

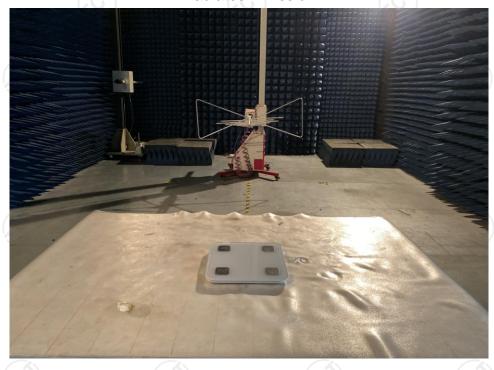
- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 6. All the restriction bands are compliance with the limit of 15.209.

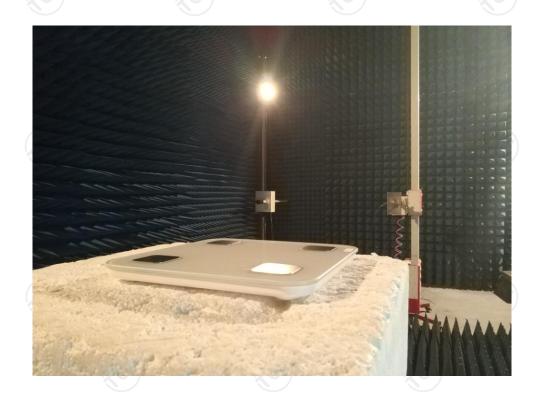




Appendix A: Photographs of Test Setup

Product: Electronic scale Model: CF516 Radiated Emission



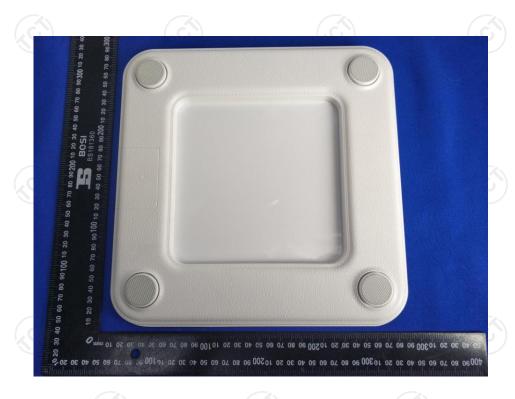




Appendix B: Photographs of EUT

Product: Electronic scale
Model: CF516
External Photos

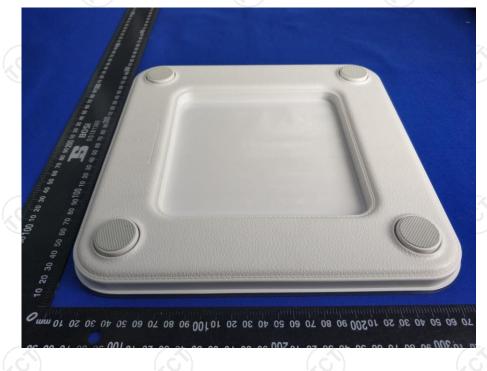




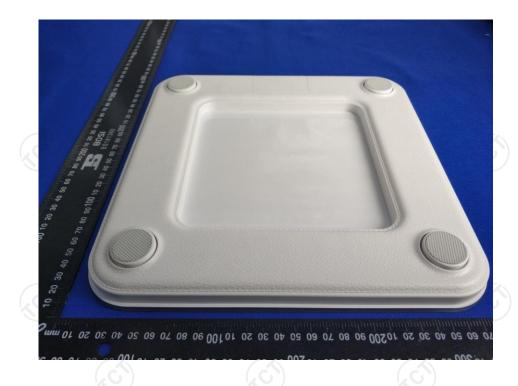
TESTING CENTRE TECHNOLOGY Report No.: TCT191209E019



















Product: Electronic scale Model: CF516 Internal Photos

