

TEST REPORT

FCC ID: 2AJ7WEB-E001

Product: CharmBelt Intelligent shaping belt

Model No.: EB-E001

Additional Model No.: EB-E001S, EB-E001PRO

Trade Mark:

Report No.: TCT161018E002 Issued Date: Nov. 10, 2016

Issued for:

GuangDong ElfBeauty Intelligence Technology Co.,Ltd
Innovation Science and Technology Park, Songshan Lake High-tech
Industrial Development Zone, Dongguan City, Guangdong Province, China

Issued By:

Shenzhen Tongce Testing Lab.

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1. Test Certification

Report No.: TCT161018E002

Product:	CharmBelt Intelligent shaping belt
Model No.:	EB-E001
Additional Model No.:	EB-E001S, EB-E001PRO
Applicant:	GuangDong ElfBeauty Intelligence Technology Co.,Ltd
Address:	Innovation Science and Technology Park, Songshan Lake High-tech Industrial Development Zone, Dongguan City, Guangdong Province, China
Manufacturer:	GuangDong ElfBeauty Intelligence Technology Co.,Ltd
Address:	Innovation Science and Technology Park, Songshan Lake High-tech Industrial Development Zone, Dongguan City, Guangdong Province, China
Date of Test:	Oct. 19 – Nov. 09, 2016
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v03r05

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:	Bery Was	Date:	Nov. 09, 2016	
Reviewed By:	Beryl Zhao Zan Zhan	Date:	Nov. 10, 2016	—
Approved By:	Joe Zhou Tomsin	Date:	Nov. 10, 2016	(,





2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	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 Name:	CharmBelt Intelligent shaping belt
Model :	EB-E001
Additional Model:	EB-E001S, EB-E001PRO
Trade Mark:	ELF\(3EAUTY\)
Hardware Version:	V1.0
Software Version:	V3.0
BT Version:	V4.0
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Power Supply:	DC 3.7V
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

Operation	ni i requeno	y dadii d	i onamo				7
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	- 11	2424MHz	21	2444MHz	31	2464MHz
D		<i>J</i>		<i></i>		<u> </u>	
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. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.

The sample was placed (0.1m 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
Adapter	XC-0501000-0 6-B			ADAPTER

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.

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5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

FCC - Registration No.: 572331

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

CNAS - Registration No.: CNAS L6165
 Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005
 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 86-755-36638142

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%

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6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

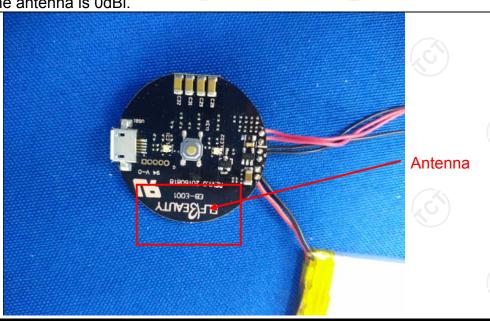
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 0dBi.





6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.2	207	(30
Test Method:	ANSI C63.10:2013		
Frequency Range:	150 kHz to 30 MHz		(c ⁴)
Receiver setup:	RBW=9 kHz, VBW=30 kHz	, Sweep time	e=auto
Limits:	```	Limit (uasi-peak 66 to 56* 56 60	Average 56 to 46* 46 50
Test Setup:	Reference P 40cm 8 40cm 8 E.U.T Adapter Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	EMI Receiver	Iter — AC power
Test Mode:	Charging + Transmitting Mo	ode	
Test Procedure:	 The E.U.T is connected impedance stabilization provides a 50ohm/50uH measuring equipment. The peripheral devices a power through a LISN to coupling impedance with refer to the block diagraphotographs). Both sides of A.C. line conducted interference. emission, the relative post the interface cables mut ANSI C63.10: 2013 on certain provides a stabilization. 	n network coupling in re also conne that provides n 50ohm terr gram of the are checke In order to fi sitions of equ est be change	(L.I.S.N.). This appedance for the ected to the main a 500hm/50uH mination. (Please test setup and ed for maximum and the maximum uipment and all of ged according to
Test Result:	PASS		



TESTING CENTRE TECHNOLOGY

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6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
EMI Test Receiver	R&S	ESCS30	100139	Aug. 11, 2017		
LISN	Schwarzbeck	NSLK 8126	8126453	Aug. 16, 2017		
Coax cable (9kHz-40GHz)	тст	CE-05	N/A	Aug. 11, 2017		
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A		

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



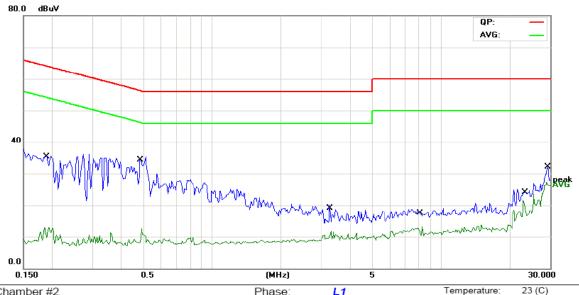




6.2.3. Test data

Please refer to following diagram for individual

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



Site Chamber #2	Phase:	L1	i emperature:	23 (
Limit: FCC Part 15B Class B Conduction(QP)	Power		Humidity: 5	4 %

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1	0.1852	21.77	11.48	33.25	64.24	-30.99	QP	
2	0.1852	1.46	11.48	12.94	54.24	-41.30	AVG	
3	0.4938	19.96	11.31	31.27	56.10	-24.83	QP	
4	0.4938	1.10	11.31	12.41	46.10	-33.69	AVG	
5	3.3164	1.25	11.23	12.48	56.00	-43.52	QP	
6	3.3164	0.49	11.23	11.72	46.00	-34.28	AVG	
7	8.2772	3.45	11.13	14.58	60.00	-45.42	QP	
8	8.2772	1.94	11.13	13.07	50.00	-36.93	AVG	
9	22.9414	11.25	10.71	21.96	60.00	-38.04	QP	
10	22.9414	10.95	10.71	21.66	50.00	-28.34	AVG	
11	28.9492	18.07	10.71	28.78	60.00	-31.22	QP	
12 *	28.9492	16.66	10.71	27.37	50.00	-22.63	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

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

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

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

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

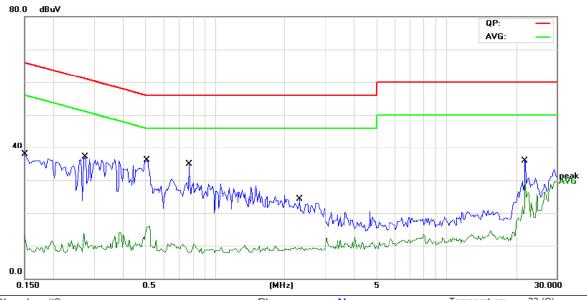
Q.P. =Quasi-Peak

AVG =average

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



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



Site Chamber #2	Phase: N	Temperature: 23 (C)
Limit: FCC Part 15B Class B Conduction(QP)	Power:	Humidity: 54 %

No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1516	16.41	11.49	27.90	65.91	-38.01	QP	
2	0.1516	-1.22	11.49	10.27	55.91	-45.64	AVG	
3	0.2750	14.29	11.43	25.72	60.96	-35.24	QP	
4	0.2750	-0.75	11.43	10.68	50.96	-40.28	AVG	
5 *	0.5094	17.28	11.31	28.59	56.00	-27.41	QP	
6	0.5094	1.40	11.31	12.71	46.00	-33.29	AVG	
7	0.7672	7.41	11.23	18.64	56.00	-37.36	QP	
8	0.7672	-2.18	11.23	9.05	46.00	-36.95	AVG	
9	2.3258	1.65	11.58	13.23	56.00	-42.77	QP	
10	2.3258	-2.20	11.58	9.38	46.00	-36.62	AVG	
11	22.0586	15.33	10.68	26.01	60.00	-33.99	QP	
12	22.0586	5.79	10.68	16.47	50.00	-33.53	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna 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. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)					
Test Method:	KDB558074					
Limit:	30dBm					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Refer to item 4.1					
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r05. Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × 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	Aug. 11, 2017
RF cable (9kHz-40GHz)	тст	RE-06	N/A	Aug. 12, 2017
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017

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

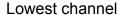
BT LE mode						
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result			
Lowest	-3.81	30.00	PASS			
Middle	-3.40	30.00	PASS			
Highest	-3.35	30.00	PASS			

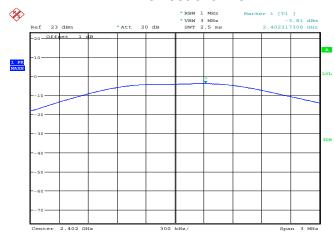
Test plots as follows:





BT LE mode

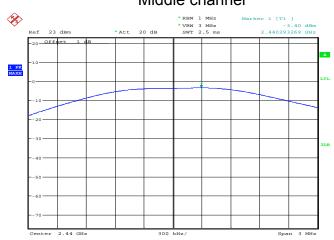




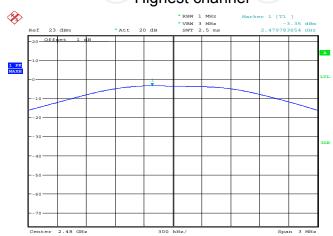
Middle channel

Date: 8.NOV.2016 20:17:26

Date: 8.NOV.2016 20:18:10



Highest channel



Date: 8.NOV.2016 20:18:52



6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074
Limit:	>500kHz
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r05. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test Instruments

RF Test Room								
Equipment	Equipment Manufacturer Model Serial Number Calibration D							
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017				
RF cable (9kHz-40GHz)	б тст	RE-06	N/A	Aug. 12, 2017				
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017				

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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6.4.3. Test data

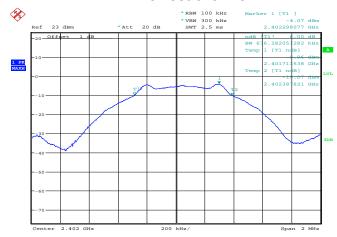
Test channel	6dB Emission Bandwidth (kHz)				
rest chamiler	BT LE mode	Limit	Result		
Lowest	676.28	>500k			
Middle	679.49	>500k	PASS		
Highest	679.49	>500k			

Test plo	ots as follow	vs:			



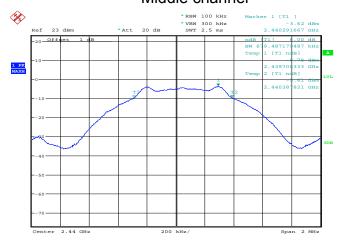
BT LE mode

Lowest channel

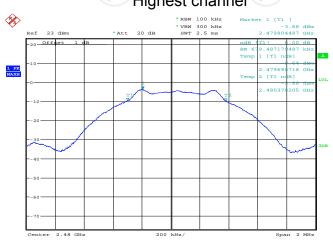


Date: 8.NOV.2016 20:13:45

Middle channel



Highest channel



Date: 8.NOV.2016 20:16:16

Date: 8.NOV.2016 20:15:16



6.5. Power Spectral Density

6.6. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	EUT EUT
Took Mode.	Spectrum Analyzer
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v03r05 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.
Test Result:	PASS

6.6.1. Test Instruments

RF Test Room								
Equipment	Equipment Manufacturer Model Serial Number Calibration Du							
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017				
RF cable (9kHz-40GHz)	тст	RE-06	N/A	Aug. 12, 2017				
Antenna Connector	тст	RFC-01	N/A	Aug. 12, 2017				

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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6.6.2.	Test	data
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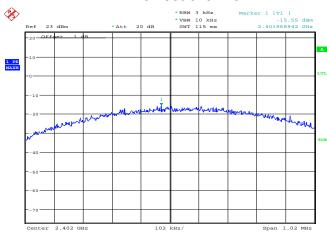
Test channel	Power Spectral Density (dBm/3kHz)							
rest chamiler	BT LE mode	Limit	Result					
Lowest	-15.55	8 dBm/3kHz	180					
Middle	-15.50	8 dBm/3kHz	PASS					
Highest	-15.13	8 dBm/3kHz						

Test plots as follows:



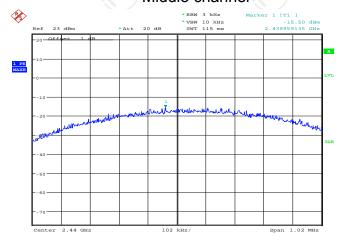


Lowest channel



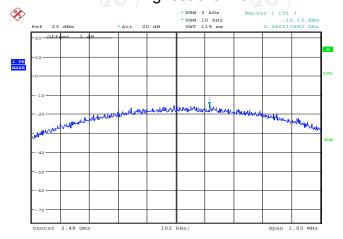
Date: 8.NOV.2016 20:24:43

Middle channel



Date: 8.NOV.2016 20:28:30

Highest channel



Date: 8.NOV.2016 20:29:43



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:	KDB558074				
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 and 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:	Spectrum Anakara EUT				
Test Mode:	Spectrum Analyzer Refer to item 4.1				
rest mode.	The RF output of EUT was connected to the spectrum				
Test Procedure:	 analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. 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). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 				
Test Result:	PASS				

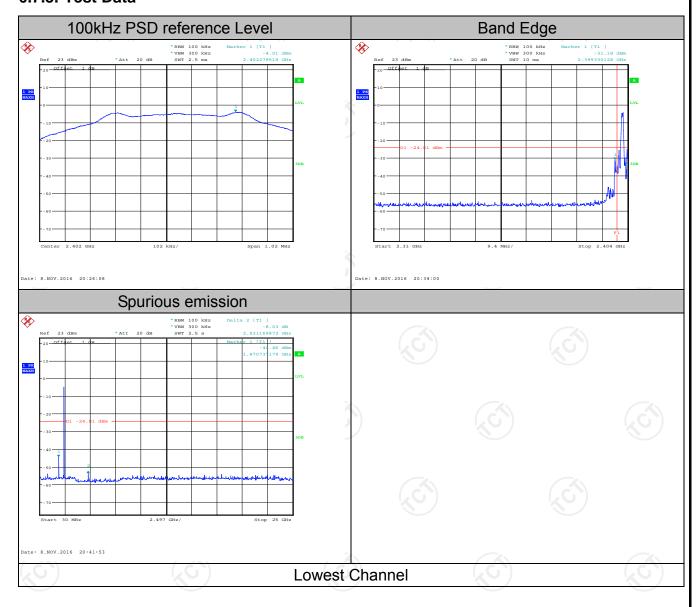


6.7.2. Test Instruments

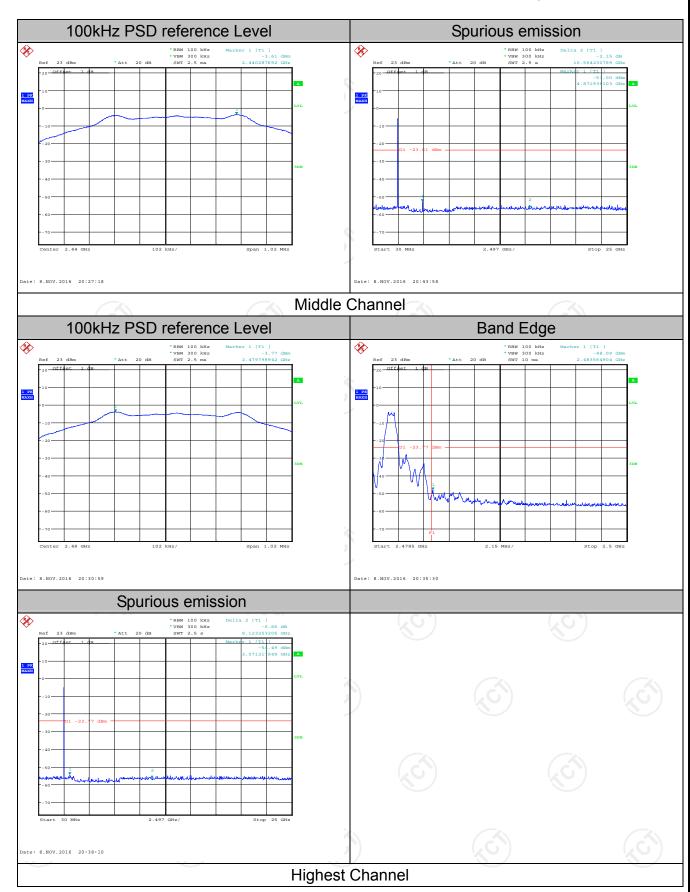
RF Test Room										
Equipment	Manufacturer	Model	Serial Number	Calibration Due						
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017						
RF cable (9kHz-40GHz)	тст	RE-06	N/A	Aug. 12, 2017						
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017						

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







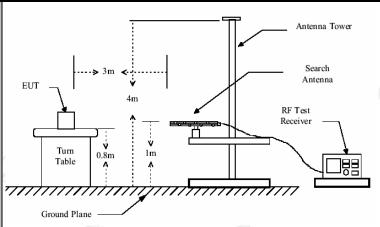




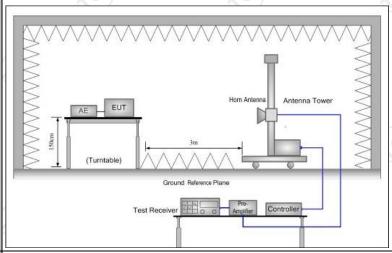
6.8. Radiated Spurious Emission Measurement

6.8.1. Test Specification

Test Requirement:	FCC Part15	C Section	15.209	(0)		(0
Test Method:	ANSI C63.10	D: 2013				
Frequency Range:	9 kHz to 25	GHz				
Measurement Distance:	3 m	K			190)
Antenna Polarization:	Horizontal &	Vertical				
Operation mode:	Refer to item	1 4.1	(((1)		(c
	Frequency 9kHz- 150kHz	Detector Quasi-pea	RBW k 200Hz	VBW 1kHz	+	Remark si-peak Value
Receiver Setup:	150kHz- 30MHz	Quasi-pea		30kHz	_	i-peak Value
	30MHz-1GHz	Quasi-pea	k 100KHz	300KHz	Quas	si-peak Value
	Above 1GHz	Peak	1MHz	3MHz	_	eak Value
	7 130 10 10112	Peak	1MHz	10Hz	Ave	erage Value
	Frequer	ncy	Field Str (microvolts		_	asurement nce (meters)
	0.009-0.4		2400/F(KHz)	300	
	0.490-1.7		24000/F	(KHz)	30	
	1.705-3		30		L Ć	30
	30-88		100			3
Limit:	88-216 216-96		150 200		3	
Lillit.	Above 9		500			3
	Above s		300	<u>(C)</u>		
	Frequency		d Strength ovolts/meter)	Measure Distan (mete	ice	Detector
	Above 1GH:	,	500	3		Average
	Above IGITZ	2	5000			Peak
Test setup:	For radiated	Distance = 3m Turn table	s below 30	OMHz	¬ Гг	Computer
	30MHz to 10	3Hz				



Above 1GHz



Test Procedure:

For the radiated emission test below 1GHz:
 The EUT was placed on a turntable with 0.8 meter

interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final

above ground. The EUT was set 3 meters from the

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TESTING CENTRE TECHNOLOGY	Report No.: TCT161018E
TESTING CENTRE TECHNOLOGY	 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=100 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
Test mode:	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. Refer to section 4.1 for details
Test results:	PASS (C)







6.8.2. Test Instruments

	Radiated Em	ission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Aug. 11, 2017
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Aug. 11, 2017
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Aug. 11, 2017
Pre-amplifier	HP	8447D	2727A05017	Aug. 11, 2017
Loop antenna	ZHINAN	ZN30900A	12024	Aug. 13, 2017
Broadband Antenna	Schwarzbeck	VULB9163	340	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9170	373	Aug. 13, 2017
Antenna Mast	ccs	CC-A-4M	N/A	N/A
Coax cable (9kHz-40GHz)	TCT	RE-low-01	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	тст	RE-high-02	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	тст	RE-low-03	N/A	Aug. 11, 2017
Coax cable (9kHz-40GHz)	тст	RE-high-04	N/A	Aug. 11, 2017
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:



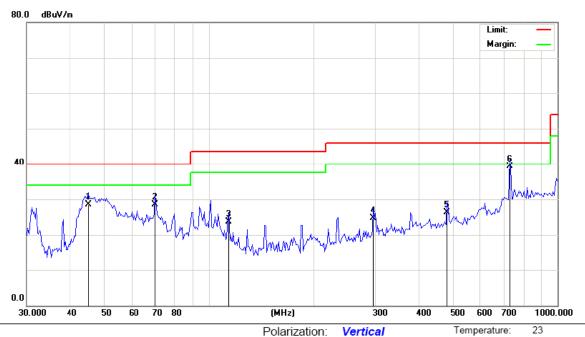
Site Polarization: Horizontal Temperature: 23

Limit: FCC Part 15B Class B RE_3 m Power: Humidity: 54 %

	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
_	1		48.0392	38.22	-9.84	28.38	40.00	-11.62	QP		0	
_	2		96.3230	48.22	-11.02	37.20	43.50	-6.30	QP		0	
_	3	*	178.7697	52.12	-12.88	39.24	43.50	-4.26	QP		0	
_	4	İ	266.8394	50.01	-8.42	41.59	46.00	-4.41	QP		0	
_	5		353.4471	41.55	-5.94	35.61	46.00	-10.39	QP		0	
_	6		669.9523	36.55	0.99	37.54	46.00	-8.46	QP		0	



Vertical:



Site Polarization: Vertical Temperature: 23
Limit: FCC Part 15B Class B RE_3 m Power: Humidity: 54 %

No. I	Mk. Fre	Readir eq. Level	_		Limit	Over		Antenna Height	Table Degree		
	MH	z dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1	45.09	51 38.55	-9.95	28.60	40.00	-11.40	QP		0		
2	70.20	95 42.33	-13.81	28.52	40.00	-11.48	QP		0		
3	114.01	81 35.22	-11.55	23.67	43.50	-19.83	QP		0		
4	296.50	22 31.55	-6.78	24.77	46.00	-21.23	QP		0		
5	481.51	10 28.99	-2.60	26.39	46.00	-19.61	QP		0		
6	* 728.89	71 34.22	5.07	39.29	46.00	-6.71	QP		0		

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 (Low channel) was submitted only.



Above 1GHz

Low chann	el: 2402 M	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)
2390	Н	49.71	-	-7.52	42.19	-	74	54	-11.81
4804	Н	42.59		7.44	49.73		74	54	-4.27
7206	Н	35.82		13.54	50.06		74	54	-3.94
	Н							 /.	
	(C)		(.G			.ci\)		(.c)	
2390	V	48.67		-7.52	41.15	<u></u>	74	54	-12.85
4804	V	41.89		7.44	49.89		74	54	-4.11
7206	V	35.8		13.54	50.34		74	54	-3.66
	V				X		-		

Middle cha	nnel: 2440	MHz							
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)
4880	(CH)	40.13	- 1 _X C	7.01	45.13	(C) -	74	54	-8.87
7320	7	34.88		13.21	49.19	<u></u>	74	54	-4.81
	Н								
4880	V	42.36		0.99	43.35		74	54	-10.65
7320	V	39.42		9.87	49.29		74	54	-4.71
	V				-)		

High chann	nel: 2480 N	ЛHz		,					
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)
2483.5	Н	50.15		-7.52	42.63		74	54	-11.37
4960	Н	42.6		7.44	49.22		74	54	-4.78
7440	Н	35.64		13.54	49.77		74	54	-4.23
)	Н	(<u></u>)		()		\\/		
2483.5	V	49.56		-7.52	42.04		74	54	-11.96
4960	V	40.49		7.44	49.44		74	54	-4.56
7440	CV	35.82	-4,0	13.54	49.84	(C)	74	54	-4.16
	V			/					

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.

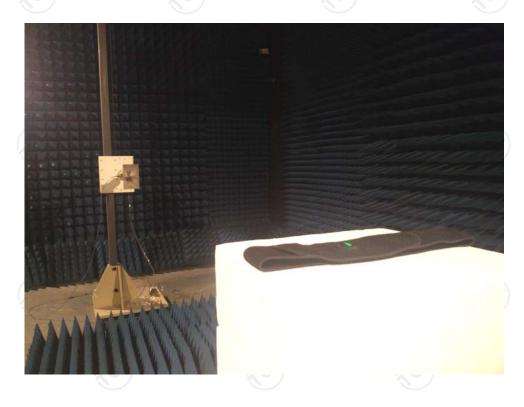
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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Appendix A: Photographs of Test Setup Product: CharmBelt Intelligent shaping belt Model: EB-E001 **Radiated Emission**







Conducted Emission















Appendix B: Photographs of EUT Product: CharmBelt Intelligent shaping belt

Model: EB-E001 External Photos





TCT通测检测 testing centre technology

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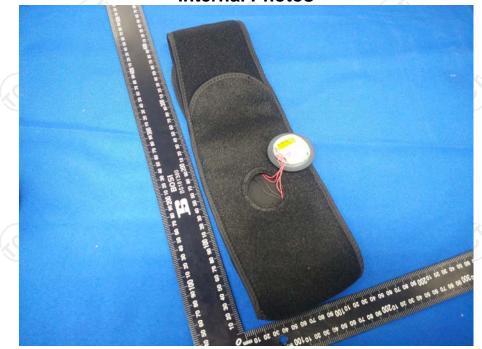


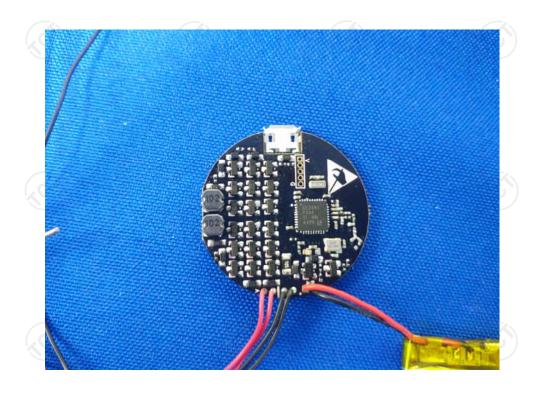






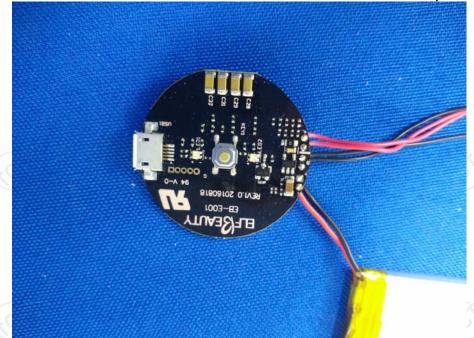
Product: CharmBelt Intelligent shaping belt Model: EB-E001 Internal Photos

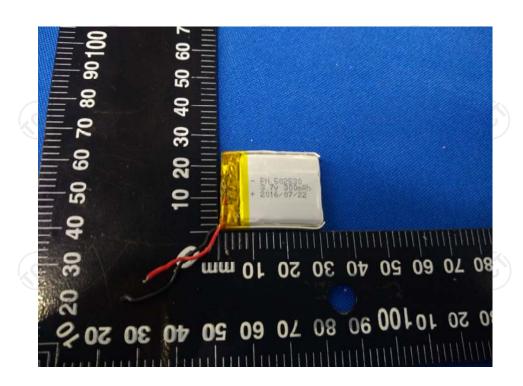


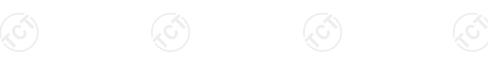


TCT通测检测 testing centre technology

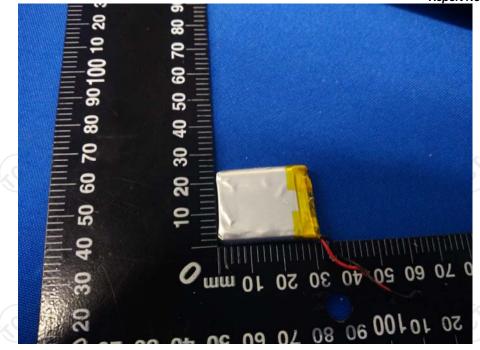
Report No.: TCT161018E002











*****END OF REPORT****













