

TEST REPORT

FCC ID: 2ALNA-ICF53

Product: FM transmitter

Model No.: IC-F53

Additional Model No.: IC-F58, IC-F62, IC-F63, IC-F64

Trade Mark: iClever

Report No.: TCT170717E037

Issued Date: Aug. 03, 2017

Issued for

Shenzhen Thousandshores Technology Co., Ltd.
5th Floor, Chuangxin Building, Seven-star Creative Square, No.2 North Alley,
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Issued By:

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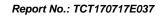




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1. Test Certification

Report No.: TCT170717E037

Product:	FM transmitter
Model No.:	IC-F53
Additional Model No.:	IC-F58, IC-F62, IC-F63, IC-F64
Trade Mark:	iClever
Applicant:	Shenzhen Thousandshores Technology Co., Ltd.
Address:	5th Floor, Chuangxin Building, Seven-star Creative Square, No.2 North Alley, Chuangye 2nd Road, 28th Bao'an District, Shenzhen, China
Manufacturer:	Shenzhen James Audio Technology CO., Ltd
Address:	4th Floor, A- building, No.2 Guiyuan Road, Guihua Community, Guanlan Town, Longhua New District, Shenzhen, China
Date of Test:	Jul. 03 –Jul. 10, 2017
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:	Jin Wang	Date:	Jul. 10, 2017
10	Jin Wang	- K	
Reviewed By:	Zonthon	Date:	Aug. 03, 2017
	Joe Zhou		
Approved By:	Tomsm	Date:	Aug. 03, 2017
	Tomsin		



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) §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:	FM transmitter
Model No.:	IC-F53
Additional Model No.:	IC-F58, IC-F62, IC-F63, IC-F64
Trade Mark:	iClever
BT Version:	V4.0
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	-0.5 dBi
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names and colour are different for the marketing requirement.

Operation Frequency each of channel

Operation i requesticy each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
							<i></i>
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
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
1	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.
- 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.: 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:

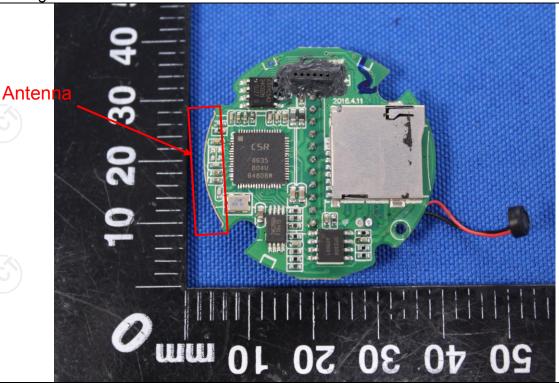
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 -0.5 dBi.





6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207			
Test Method:	ANSI C63.10:2013			
Frequency Range:	150 kHz to 30 MHz	C ⁽)		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto			
Limits:	Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 4 0.5-5 56 46 5-30 60 50			
Test Setup:	Reference Plane 40cm 80cm Filter AC power E.U.T Adapter Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network			
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. 			
Test Result:	The EUT is powered applicable.	by car's power	DC 12V, so not	



6.3. Conducted Output Power

6.3.1. Test Specification

<u> </u>			
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	Oct. 13, 2017
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Oct. 13, 2017
Antenna Connector	TCT	RFC-01	N/A	Oct. 13, 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

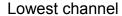
BT LE mode			
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
Lowest	8.08	30.00	PASS
Middle	8.90	30.00	PASS
Highest	9.09	30.00	PASS

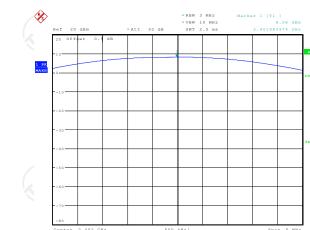
Test plots as follows:



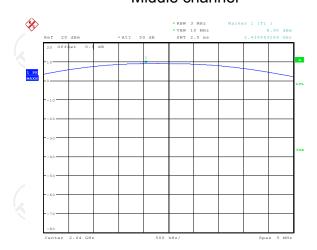


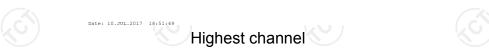
BT LE mode

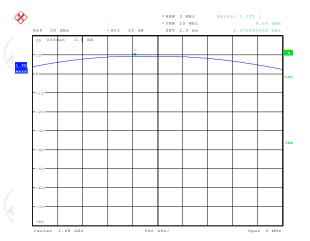












Date: 10.JUL.2017 18:52:05



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	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	R&S	FSU	200054	Oct. 13, 2017			
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Oct. 13, 2017			
Antenna Connector	TCT	RFC-01	N/A	Oct. 13, 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

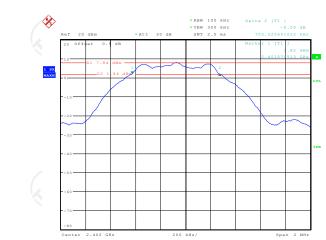
Test channel	6dB Emission Bandwidth (kHz)			
rest channel	BT LE mode	Limit	Result	
Lowest	703.53	>500k	0	
Middle	701.92	>500k	PASS	
Highest	695.51	>500k		

Test plots as follows	s: (c)			

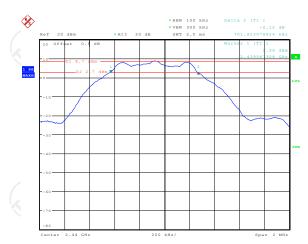


BT LE mode

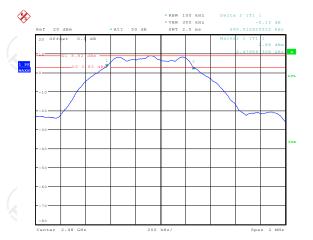
Lowest channel







Highest channel



Date: 10.JUL.2017 18:50:49



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 greated than 8dBm in any 3kHz band at any time interval continuous transmission.			
Test Setup:	Spectrum destrum			
	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

	<u> </u>						
RF Test Room							
Equipment Manufacturer Model Serial Number Calibration Du							
Spectrum Analyzer	R&S	FSU	200054	Oct. 13, 2017			
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Oct. 13, 2017			
Antenna Connector	тст	RFC-01	N/A	Oct. 13, 2017			

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

Report No.: TCT170717E037

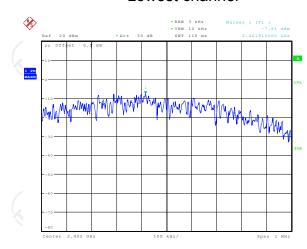
Test showed	Power Spectral Density (dBm/3kHz)			
Test channel	BT LE mode	Limit	Result	
Lowest	-7.81	8 dBm/3kHz	100	
Middle	-6.86	8 dBm/3kHz	PASS	
Highest	-6.68	8 dBm/3kHz		

Test plots as follows:

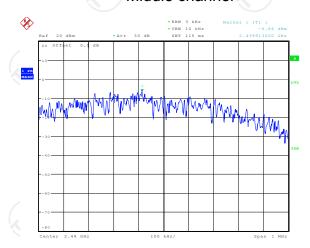




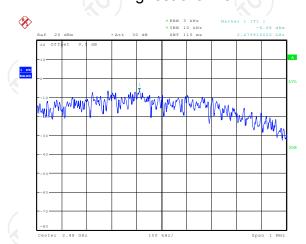
Lowest channel







Date: 10.JUL.2017 19:27:58 Highest channel



Date: 10.JUL.2017 19:28:28



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 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 Anabase 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				



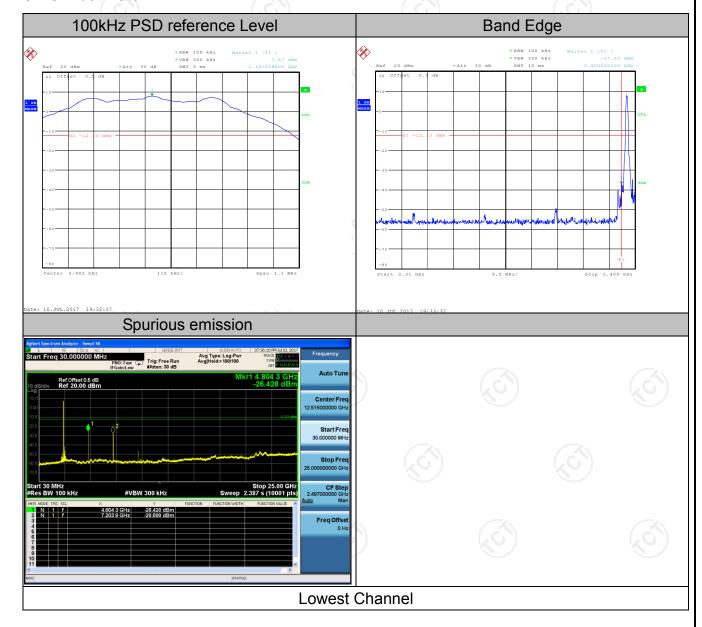


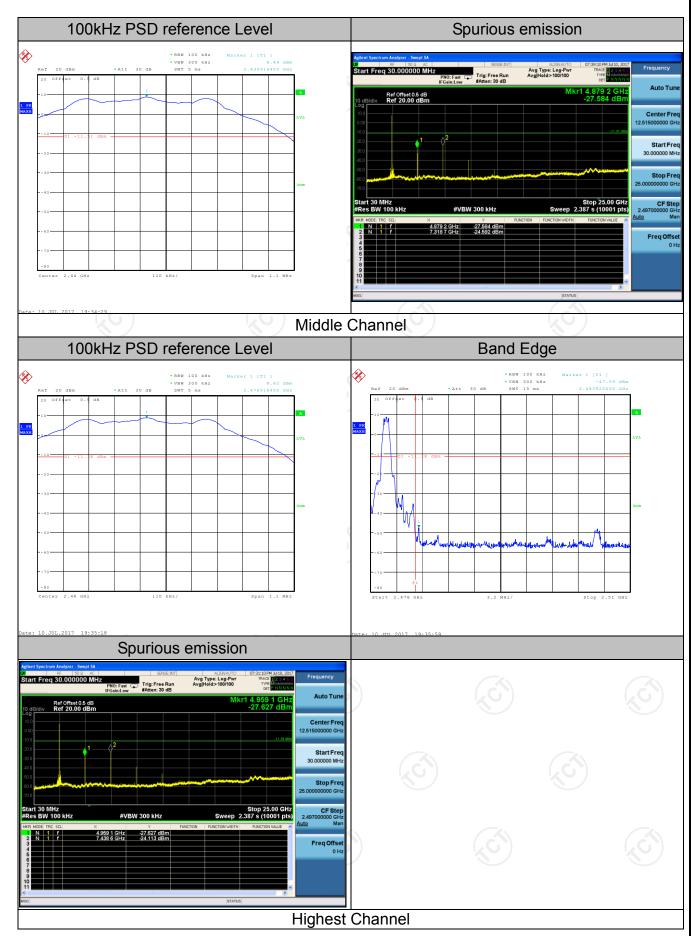
6.7.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	R&S	FSU	200054	Oct. 13, 2017			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 13, 2017			
RF cable (9kHz-26.5GHz)	TCT	RE-06	N/A	Oct. 13, 2017			
Antenna Connector	TCT	RFC-01	N/A	Oct. 13, 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







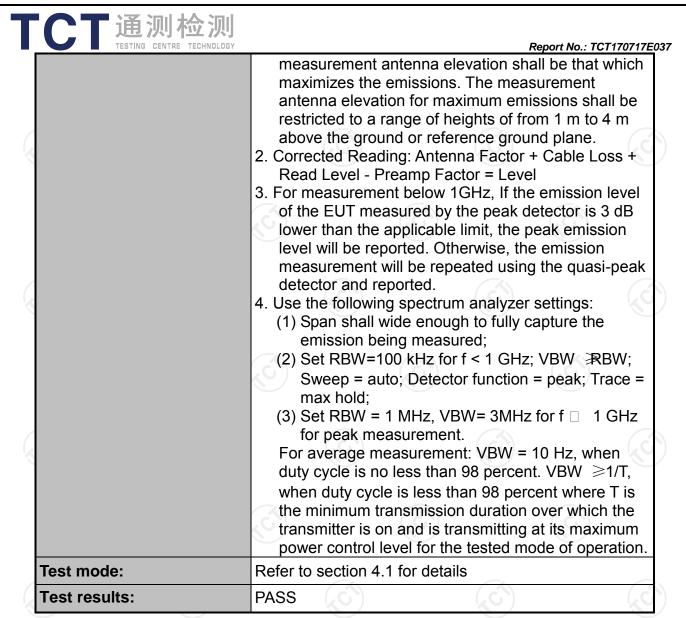
6.8. Radiated Spurious Emission Measurement

6.8.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209						
Test Method:	ANSI C63.10: 2013						
Frequency Range:	9 kHz to 25	GHz					
Measurement Distance:	3 m				(6)		
Antenna Polarization:	Horizontal &	Vertical					
Operation mode:	Refer to item	Refer to item 4.1					
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-pea Quasi-pea	ak 200Hz	VBW 1kHz 30kHz	Remark Quasi-peak Value Quasi-peak Value		
Receiver Setup:	30MHz 30MHz-1GHz	Quasi-pea	<u>(</u>	300KHz	Quasi-peak Value		
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Value		
	Frequency		Field Str (microvolt		Measurement Distance (meters)		
	0.009-0.490 0.490-1.705		2400/F 24000/F		300 30		
	1.705-30		30		30		
	30-88		100		3		
	88-216		150		3		
Limit:	216-960		200		3		
	Above 960		500		3		
	II Fredilency I		eld Strength Distar crovolts/meter) Measure Distar		nce Detector		
	Above 1GH	z	500 5000	3	Average Peak		
Test setup:	For radiated emissions below 30MHz Distance = 3m Pre -A						
	30MHz to 10		Ground Plane				

「通测检测 Report No.: TCT170717E037 Antenna Tower Search Antenna EUT 4m RF Test Receiver Turn 0.8m Above 1GHz 1. For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the 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: **Test Procedure:** 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







6.8.2. Test Instruments

	Radiated Em	ission Test Si	te (966)		
Name of Equipment	Manufacturer Model		Serial Number	Calibration Due	
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Oct. 13, 2017	
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Oct. 13, 2017	
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Oct. 13, 2017	
Pre-amplifier	HP	8447D	2727A05017	Oct. 13, 2017	
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 13, 2017	
Broadband Antenna	Schwarzbeck	VULB9163	340	Oct. 13, 2017	
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Oct. 13, 2017	
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018	
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Oct. 13, 2017	
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Oct. 13, 2017	
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Oct. 13, 2017	
Coax cable (9KHz-40GHz)	TCT	RE-high-04	N/A	Oct. 13, 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).

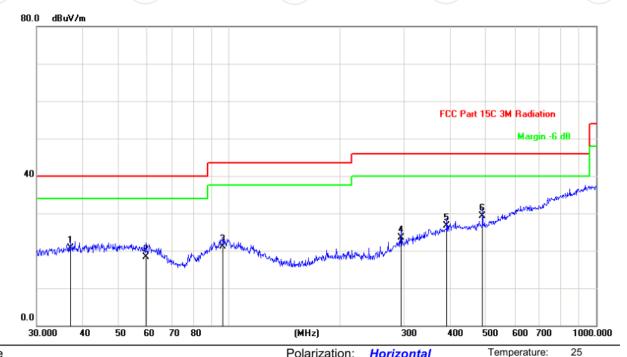


6.8.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:



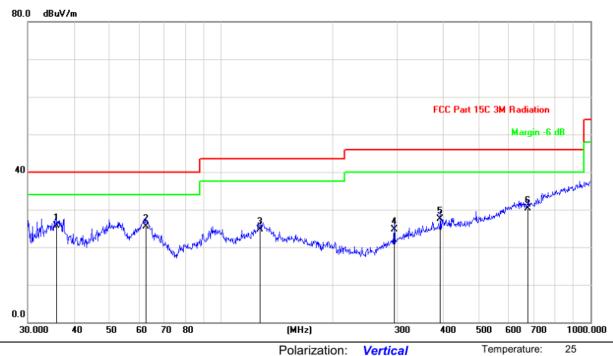
Site Polarization: Horizontal Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: DC 12V Humidity: 55 %

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	37.0248	28.13	-7.33	20.80	40.00	-19.20	QP			
2	59.4405	25.70	-7.40	18.30	40.00	-21.70	QP			
3	96.0986	28.18	-6.98	21.20	43.50	-22.30	QP			
4	294.1136	29.18	-5.68	23.50	46.00	-22.50	QP			
5	392.0951	28.47	-1.77	26.70	46.00	-19.30	QP			
6 *	490.7447	30.54	-1.24	29.30	46.00	-16.70	QP			





Vertical:



Site Polarization: Vertical Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: DC 12V Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	*	35.8746	33.14	-7.44	25.70	40.00	-14.30	QP			
2		62.6507	34.01	-8.41	25.60	40.00	-14.40	QP			
3		127.6645	35.16	-10.36	24.80	43.50	-18.70	QP			
4		294.1136	30.38	-5.68	24.70	46.00	-21.30	QP			
5	;	392.0951	29.37	-1.77	27.60	46.00	-18.40	QP			
6	(677.5797	27.29	3.11	30.40	46.00	-15.60	QP			

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 (Middle channel) was submitted only.





Above 1GHz

Low chann	el: 2402 N	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2390	Н	48.38	-	-7.52	40.86		74	54	-13.14
4804	Н	44.19	-	7.44	51.63		74	54	-2.37
7206	Н	36.53	-	13.54	50.07		74	54	-3.93
	H	I	-		-				
			(, G			.(1)			
2390	V	50.13		-7.52	42.61	<u> </u>	74	54	-11.39
4804	V	43.66		7.44	51.10		74	54	-2.90
7206	V	36.33		13.54	49.87		74	54	-4.13
	V				X		74		

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)	42.38	-420	7.01	49.39	-	74	54	-4.61
7320	4	35.21		13.21	48.42		74	54	-5.58
	Н								
4880	V	43.27		7.01	50.28		74	54	-3.72
7320	V	34.46		13.21	47.67		74	54	-6.33
	V				-				

High channel: 2480 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)		
2483.5	Η	47.23		-7.52	39.71		74	54	-14.29		
4960	Н	42.32		7.44	49.76		74	54	-4.24		
7440	Н	33.84		13.54	47.38		74	54	-6.62		
<u> </u>	Н	(-		(<i>)</i>		\\\\/				
2483.5	V	47.03		-7.52	39.51		74	54	-14.49		
4960	V	41.62		7.44	49.06		74	54	-4.94		
7440	CV	33.38	- - -, G	13.54	46.92	·C-7-	74	54	-7.08		
	V			/		2		7			

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.

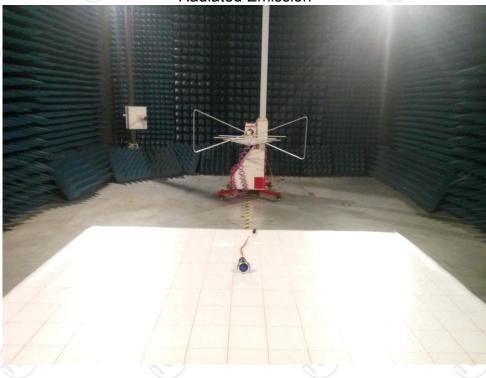
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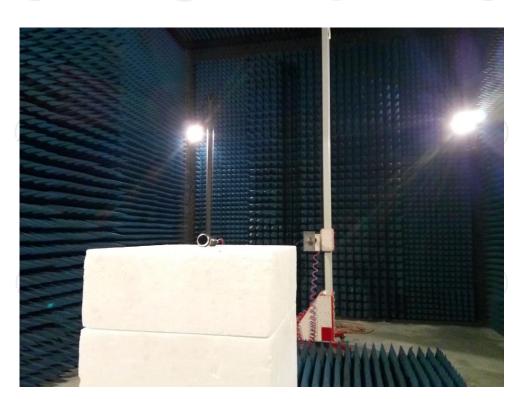
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Appendix A: Photographs of Test Setup

Product: FM transmitter Model: IC-F53 Radiated Emission





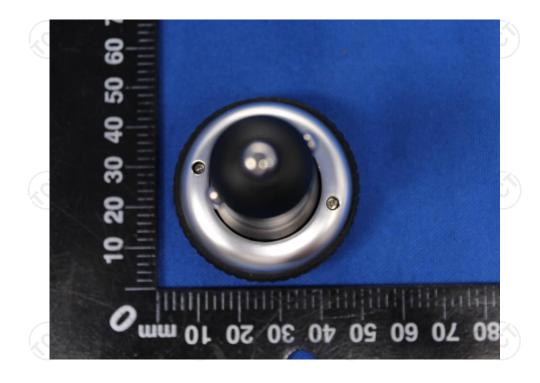


Appendix B: Photographs of EUT
Product: FM transmitter
Model: IC-F53
External Photos



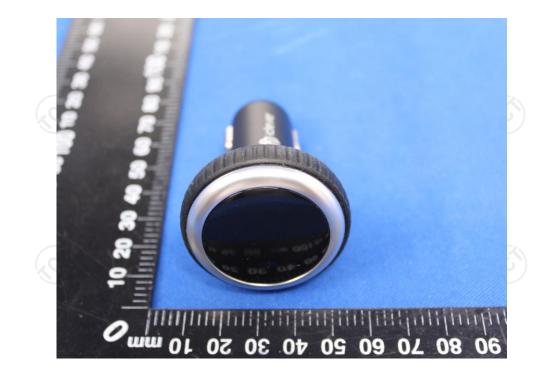




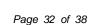




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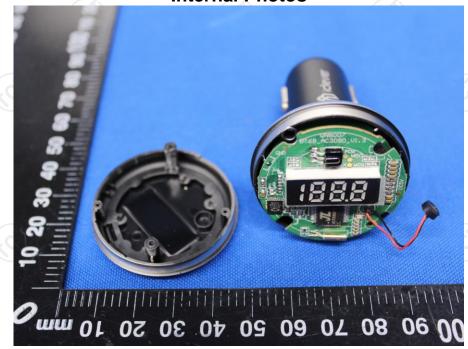


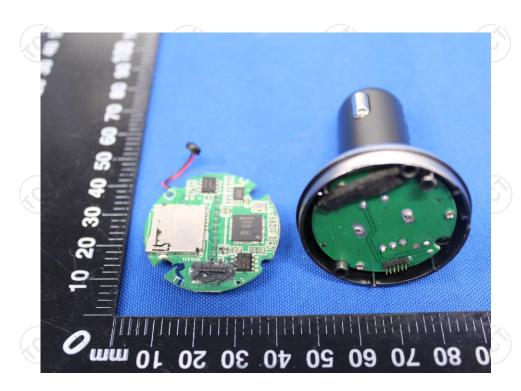
TCT通测检测 TESTING CENTRE TECHNOLOGY





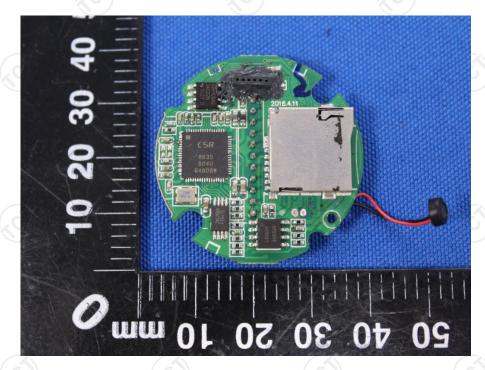
Product: FM transmitter Model: IC-F53 Internal Photos



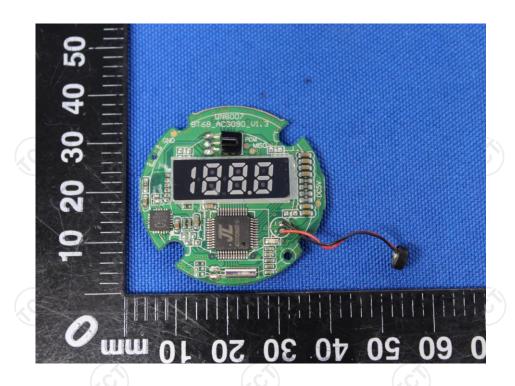


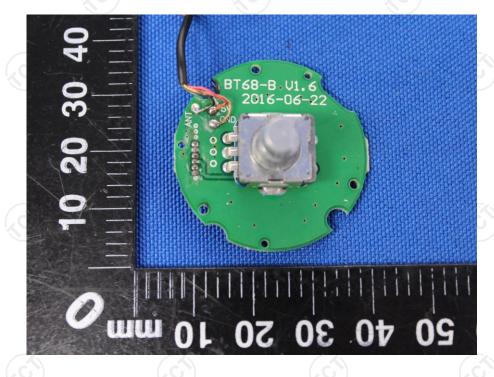




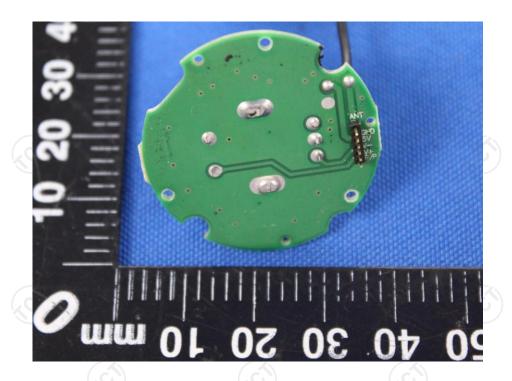






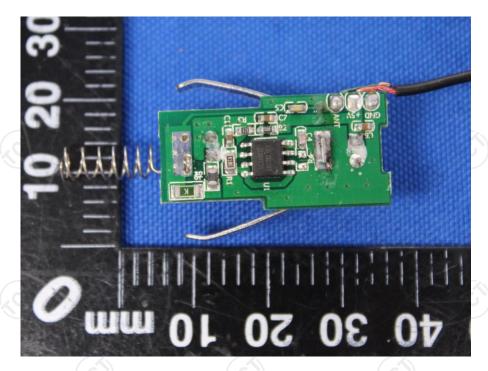


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*****END OF REPORT****





