

TEST REPORT

FCC ID: 2AOOOIMPRINT4G

Product: Tablet PC

Model No.: iBall Slide Iris Drishti 4G

Additional Model No.: iBall Slide Imprint 4G

Trade Mark: iball

Report No.: TCT171227E022

Issued Date: Jan. 15, 2018

Issued for:

BEST IT WORLD (INDIA) PVT LTD.

87, Mistry Industrial Complex, MIDC Cross Road A Andheri (E),
Mumbai, MAHARASHTRA, 400 093 India

Issued By:

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1. Test Certification

Report No.: TCT171227E022

Product:	Tablet PC
Model No.:	iBall Slide Iris Drishti 4G
Additional Model No.:	iBall Slide Imprint 4G
Trade Mark:	iball
Applicant:	BEST IT WORLD (INDIA) PVT LTD.
Address:	87, Mistry Industrial Complex, MIDC Cross Road A Andheri (E), Mumbai, MAHARASHTRA, 400 093 India
Manufacturer:	HUIZHOU MIKI COMMUNICATION EQUIPMENT CO., LTD
Address:	No, 39, guangtai rd, huinan hi-tech industrial park, zhongkai hi-tech district, huizhou city, China
Date of Test:	Dec. 28, 2017 –Jan. 12, 2018
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04

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.

Reviewed By:

Date: Jan. 12, 2018

Brews Xu

Date: Jan. 15, 2018

Date: Jan. 15, 2018

Date: Jan. 15, 2018



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:	Tablet PC
Model No.:	iBall Slide Iris Drishti 4G
Additional Model No.:	iBall Slide Imprint 4G
Trade Mark:	iball
Hardware Version:	M7011-01
Software Version:	iBall_Slide_Iris-Drishti 4G_N_V1.1
BT Version:	V4.1 (This report is for BLE)
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	Internal Antenna
Antenna Gain:	0.3dBi
Power Supply:	Rechargeable Li-ion Battery DC3.8V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just camera type are different

Operation Frequency 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
<u> </u>	((<u></u>	(Z	(2
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	I		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%

Report No.: TCT171227E022



6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

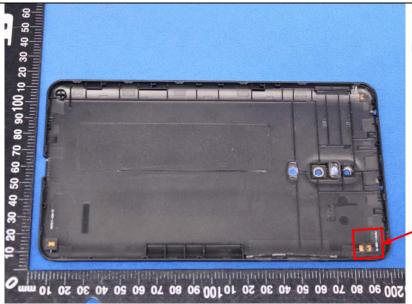
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 internal antenna which permanently attached, and the best case gain of the antenna is 0.3dBi.



BT&WIFI Antenna

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6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15 207	(ZC			
•						
Test Method:	ANSI C63.10:2013					
Frequency Range:	150 kHz to 30 MHz					
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 46 0.5-5 56 46 5-30 60 50					
Test Setup:	Adapter 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:	Test table height=0.8m Charging + Transmittin	ig Mode				
Test Procedure:	1. The E.U.T is connermode impedance stabilize provides a 50 ohm/5 measuring equipment of the power through a LI coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferer emission, the relative the interface cables ANSI C63.10: 2013	ration network 50uH coupling in the ses are also conn SN that provides with 50ohm terridiagram of the line are checkinge. In order to five positions of equals must be changed.	(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 aipment and all of ged according to			
Test Result:	PASS					

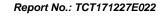


6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)									
Equipment Manufacturer Model Serial Number Calibration									
Test Receiver	R&S	ESPI	101401	Jun. 12, 2018					
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018					
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 27, 2018					
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).



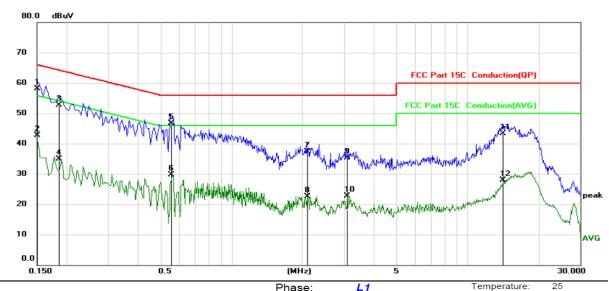




6.2.3. Test data

Please refer to following diagram for individual

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



Site	Phase:	L1	Temperature:	25
Limit: FCC Part 15C Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	55 %

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1 *	0.1500	46.55	11.47	58.02	66.00	-7.98	QP	
2	0.1500	31.14	11.47	42.61	56.00	-13.39	AVG	
3	0.1860	41.20	11.46	52.66	64.21	-11.55	QP	
4	0.1860	23.43	11.46	34.89	54.21	-19.32	AVG	
5	0.5550	35.34	11.28	46.62	56.00	-9.38	QP	
6	0.5550	18.47	11.28	29.75	46.00	-16.25	AVG	
7	2.0895	25.57	11.66	37.23	56.00	-18.77	QP	
8	2.0895	10.84	11.66	22.50	46.00	-23.50	AVG	
9	3.0840	24.09	11.30	35.39	56.00	-20.61	QP	
10	3.0840	11.33	11.30	22.63	46.00	-23.37	AVG	
11	14.0955	31.70	11.58	43.28	60.00	-16.72	QP	
12	14.0955	16.24	11.58	27.82	50.00	-22.18	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)

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

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

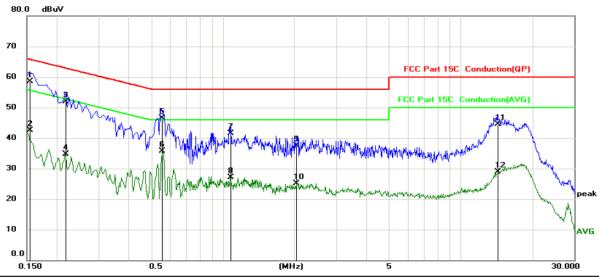
Q.P. =Quasi-Peak

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	Phase:	N	Temperature: 25	
Limit: FCC Part 15C Conduction(QP)	Power:	AC 120V/60Hz	Humidity: 55 %	

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector	Comment
1	*	0.1545	46.94	11.47	58.41	65.75	-7.34	QP	
2		0.1545	31.08	11.47	42.55	55.75	-13.20	AVG	
3		0.2175	40.43	11.44	51.87	62.91	-11.04	QP	
4		0.2175	23.23	11.44	34.67	52.91	-18.24	AVG	
5		0.5550	35.22	11.28	46.50	56.00	-9.50	QP	
6		0.5550	24.47	11.28	35.75	46.00	-10.25	AVG	
7		1.0815	30.19	11.24	41.43	56.00	-14.57	QP	
8		1.0815	15.80	11.24	27.04	46.00	-18.96	AVG	
9		2.0355	25.89	11.68	37.57	56.00	-18.43	QP	
10		2.0355	13.34	11.68	25.02	46.00	-20.98	AVG	
11		14.2710	32.90	11.59	44.49	60.00	-15.51	QP	
12		14.2710	17.29	11.59	28.88	50.00	-21.12	AVG	

Note1:

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 (dBµV) = Limit stated in standard

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

Q.P. =Quasi-Peak AVG =average

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



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 v04. 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	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018

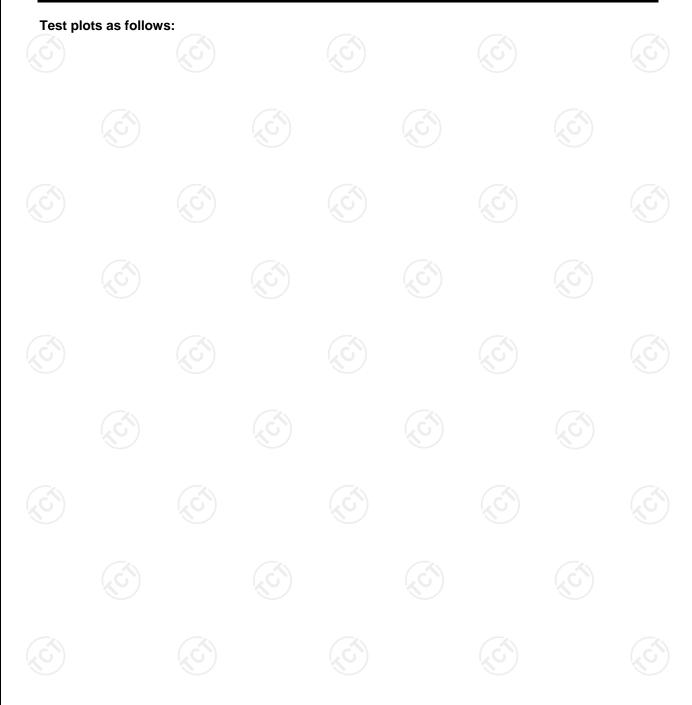
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.3.3. Test Data

BT LE mode							
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result				
Lowest	3.91	30.00	PASS				
Middle	3.35	30.00	PASS				
Highest	0.65	30.00	PASS				





BT LE mode

Lowest channel



Middle channel



Highest channel





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 v04. 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 D							
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018			
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018			

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

Test channel	6dB Emission Bandwidth (kHz)				
rest channel	BT LE mode	Limit	Result		
Lowest	706.3	>500k			
Middle	711.4	>500k	PASS		
Highest	721.8	>500k			

s:			



BT LE mode

Lowest channel



Middle channel



Highest channel





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:	Spectrum Analyzer EUT				
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 v04 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 Manufacturer Model Serial Number Calibration Due							
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018			
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018			

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 D	Hz)	
rest channel	BT LE mode	Limit	Result
Lowest	-11.96	8 dBm/3kHz	100
Middle	-11.18	8 dBm/3kHz	PASS
Highest	-15.34	8 dBm/3kHz	(3)

Test plots as follows:

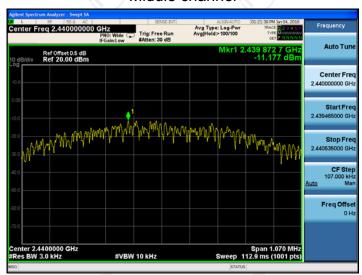




Lowest channel



Middle channel



Highest channel





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 Anabasa EUT
Test Mode:	Spectrum Analyzer 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	Agilent	N9020A	MY49100060	Sep. 27, 2018							
Spectrum Analyzer	ROHDE&SCH WARZ	FSQ	200061	Sep. 27, 2018							
RF cable (9kHz-26.5GHz)	ТСТ	RE-06	N/A	Sep. 27, 2018							
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018							

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





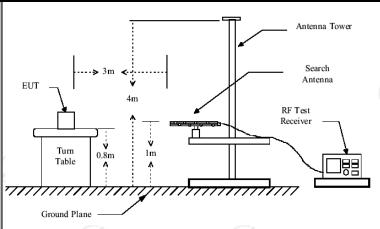




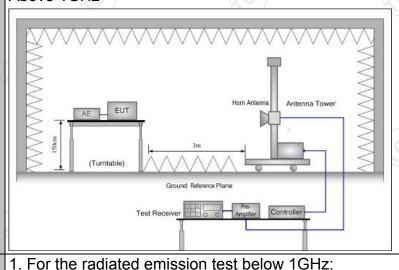
6.8. Radiated Spurious Emission Measurement

6.8.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10	D: 2013							
Frequency Range:	9 kHz to 25	GHz			C				
Measurement Distance:	3 m	K			100				
Antenna Polarization:	Horizontal &	Vertical							
Operation mode:	Refer to item	1 4.1	((C)		(,ć			
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-pea Quasi-pea	k 200Hz	VBW 1kHz 30kHz	Quasi	Remark i-peak Value i-peak Value			
Receiver Setup:	30MHz 30MHz-1GHz	Quasi-pea	ık 100KHz	300KHz	Quasi	i-peak Value			
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	_	eak Value rage Value			
	Frequer		Field Str (microvolts	s/meter)	Measurement Distance (meters)				
	0.009-0.4 0.490-1.7		2400/F(KHz) 24000/F(KHz)		300				
	1.705-3		30		30				
	30-88		100		3				
	88-216		150		3				
Limit:	216-96	0	200			3			
	Above 9	60	500			3			
		(ز		(C)		I/C			
	Frequency		eld Strength ovolts/meter)	Measure Distar (mete	nce	Detector			
	Above 1GH	z	500	3	-(d)	Average			
			5000 us below 30) 3)MHz		Peak			
	For radiated emissions below 30MHz Distance = 3m Computer Pre -Amplifier								
Test setup:	EUT	Turn table	Ground Plane	<u> </u>	Ro	eceiver			
	30MHz to 10	_		· ·					



Above 1GHz



1. For the radiated emission test below 1912.

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: 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

Test Procedure:

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TC	T	通	测	检	测
	1	resting	CENTR	E TECH	NOLOGY

	and a company to a to a company to a the standard of the stand
	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 the minimum transmission duration over which the transmitter is on and is transmitting at its maximum
Test mode:	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 Emission Test Site (966)									
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due						
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018						
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018						
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018						
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018						
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018						
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018						
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018						
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	Sep. 27, 2018						
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 27, 2018						
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018						
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018						
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).

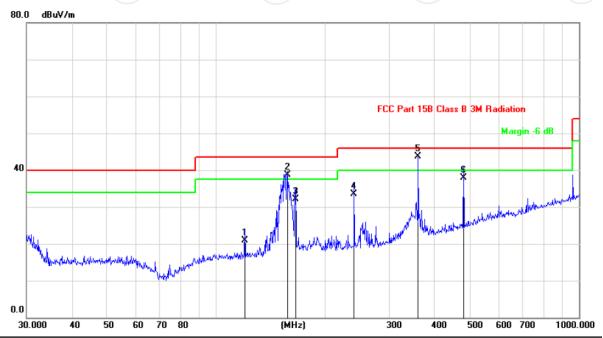


6.8.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:



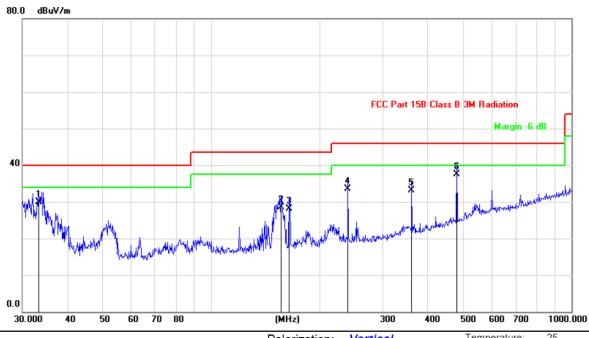
Site Polarization: Horizontal Temperature: 25

Limit: FCC Part 15B Class B 3M Radiation Power: AC 120V/60Hz Humidity: 55 %

	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
_			MHz	dBu∀	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
	1		119.8555	35.10	-14.16	20.94	43.50	-22.56	QP			
_	2	İ	157.0074	54.10	-15.38	38.72	43.50	-4.78	QP			
_	3		165.4866	47.00	-14.85	32.15	43.50	-11.35	QP			
_	4		239.9874	44.70	-11.20	33.50	46.00	-12.50	QP			
_	5	*	360.4476	50.66	-6.94	43.72	46.00	-2.28	QP			
_	6		480.5276	41.50	-3.63	37.87	46.00	-8.13	QP			



Vertical:



Site	Polarization: Vertical	Temperature: 25
Limit: FCC Part 15B Class B 3M Radiation	Power: AC 120V/60Hz	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		33.3278	43.40	-13.47	29.93	40.00	-10.07	QP			
2		156.4576	44.00	-15.41	28.59	43.50	-14.91	QP			
3		164.9073	43.10	-14.90	28.20	43.50	-15.30	QP			
4		239.9874	44.80	-11.20	33.60	46.00	-12.40	QP			
5		360.4476	40.10	-6.94	33.16	46.00	-12.84	QP			
6	*	480.5276	41.10	-3.63	37.47	46.00	-8.53	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 (lowest channel) was submitted only.



Above 1GHz

Low chan	nel: 2402 N	ЛHz							
Frequenc (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2390	Н	48.25		-7.52	40.73		74	54	-13.27
4804	Н	44.21		7.44	51.65		74	54	-2.35
7206	Н	36.73		13.54	50.27		74	54	-3.73
	Н				-		-		
	(.c)		(.6)			. ()			
2390	V	50.81		-7.52	43.29	<u></u>	74	54	-10.71
4804	V	43.52		7.44	50.96		74	54	-3.04
7206	V	36.82		13.54	50.36		74	54	-3.64
~~~	V				λ\		-		
(C)		(C)		(20	(`ر		(2G)		120

Middle cha	nnel: 2440	MHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4880	(CA)	42.14	- <del>1</del> xO	7.01	49.15	(C)+	74	54	-4.85
7320	4	35.64	-	13.21	48.85	<u></u>	74	54	-5.15
	Н								
4880	V	43.23		7.01	50.24		74	54	-3.76
7320	V	34.68		13.21	47.89		74	54	-6.11
	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	Н	47.21		-7.52	39.69		74	54	-14.31
4960	Н	42.79		7.44	50.23		74	54	-3.77
7440	Н	33.41		13.54	46.95		74	54	-7.05
<u> </u>	Н	( <u></u> )		(	)		\\\\/		
2483.5	V	47.02		-7.52	39.5		74	54	-14.5
4960	V	41.68		7.44	49.12		74	54	-4.88
7440	CV	33.41	-4,0	13.54	46.95	(C)	74	54	-7.05
	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.

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## **Appendix A: Photographs of Test Setup**

Refer to test report TCT171227E021

## **Appendix B: Photographs of EUT**

Refer to test report TCT171227E021

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

