TEST REPORT

「CT通测检测 TESTING CENTRE TECHNOLOGY

FCC ID: 2AIGY-C08

Product: Internal sensor Model No.: C08 Additional Model No.: C08A, C08B, C08E, C08F Trade Mark: N/A

Trade Mark: N/A Report No.: TCT170222E002 Issued Date: Mar. 07, 2017

Issued for:

Dongguan Saftire Auto Safety Technology Co., Ltd 1, 3rd Floor, Small technology companies Pioneer Park, Songshan Lake, DongGuan, China

Issued By:

Shenzhen Tongce Testing Lab. 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China TEL: +86-755-27673339 FAX: +86-755-27673332

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

1. Test Certification

Product:	Internal sensor	
Model No.:	C08	
Additional Model:	C08A, C08B, C08E, C08F	
Applicant:	Dongguan Saftire Auto Safety Technology Co., Ltd	
Address:	1, 3rd Floor, Small technology companies Pioneer Park, Songshan Lake, DongGuan, China	(
Manufacturer:	Dongguan Saftire Auto Safety Technology Co., Ltd	×
Address:	1, 3rd Floor, Small technology companies Pioneer Park, Songshan Lake, DongGuan, China	
Date of Test:	Feb. 23 - Mar. 06, 2017	
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.231	

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

	To Mart		
Tested By:	Jin Wang	Date:	Mar. 06, 2017
Reviewed By: 	Joe Zhou Tomsin	Date:	Mar. 07, 2017 Mar. 07, 2017
	Tomsin		

Requirement		CFR 47 Sec	tion		Result
Conduction Emission, 0.15MHz to 30MHz		§15.207			N/A
ransmission time and sil time	ent	15.23(e			PASS
Radiation Emission	§15.231	(e), §15.205, §	15.209, §15.3	5	PASS
Occupied Bandwidth		§15.231(d	2)		PASS
ote: 1. PASS: Test item meets the re 2. Fail: Test item does not meet 3. N/A: Test case does not app 4. The test result judgment is de	t the requirement ly to the test obje	ect.			
	ecided by the iiif				

3. EUT Description

			ł
Product Name:	Internal sensor	N.C.	
Model :	C08		
Additional Model:	C08A, C08B, C08E, C08F		
Trade Mark:	N/A		
Hardware Version:	A.1		
Software Version:	8702N_NOR_V03.abs	20	
Operation Frequency:	433.92MHz		1
Modulation Technology:	FSK		
Antenna Type:	Internal Antenna		
Antenna Gain:	0dBi		
Power Supply:	DC 3V(The button battery*1)	(C	
Remark:	All models above are identical in interior structure, electrical circuits and components, just model names and trademark are different for the marketing requirement.		
(G)			I

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4. Genera Information

CT通测检测 TESTING CENTRE TECHNOLOGY

4.1. Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

modulation

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	/		1

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 572331

TCT通测检测 TCT通测检测

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

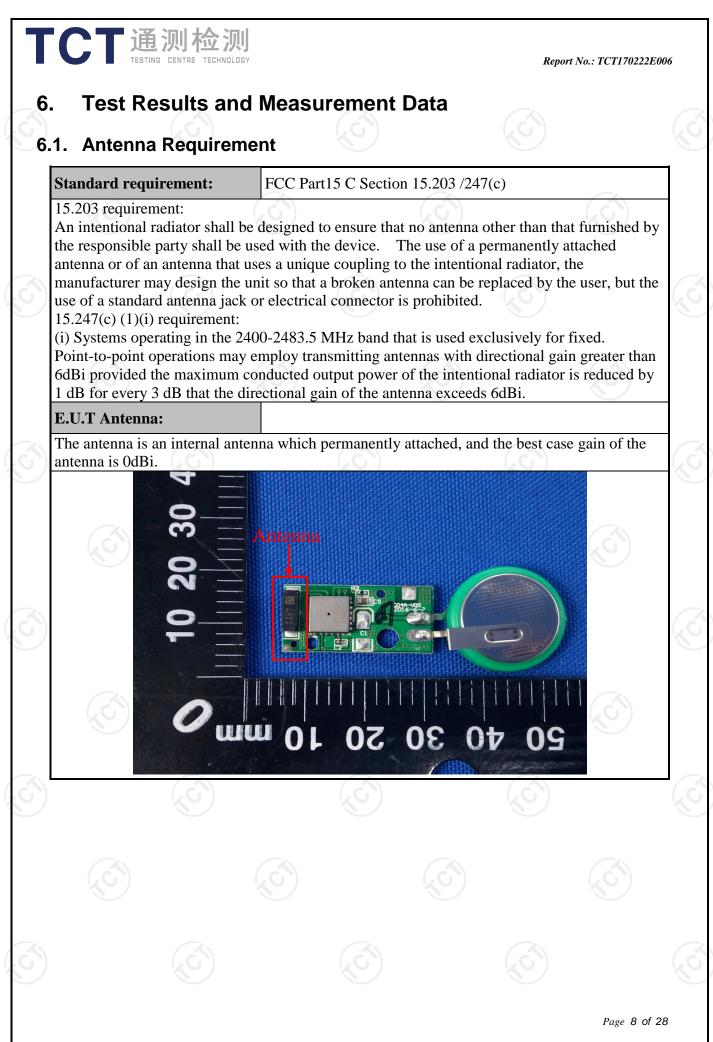
Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China Tel: 86-755-36638142

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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2. Conducted Emission	on 🕜 🖒
Test Requirement:	FCC Part15 C Section 15.207
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) Limit (dBuV) 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50
	Reference Plane
Test Setup:	LISN 40cm 80cm LISN AUX Filter AC power Equipment E.U.T EMI Test table/Insulation plane EMI Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m
Test Mode:	Transmitting Mode
Fest Procedure:	 The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm 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
rest riocedure:	emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.

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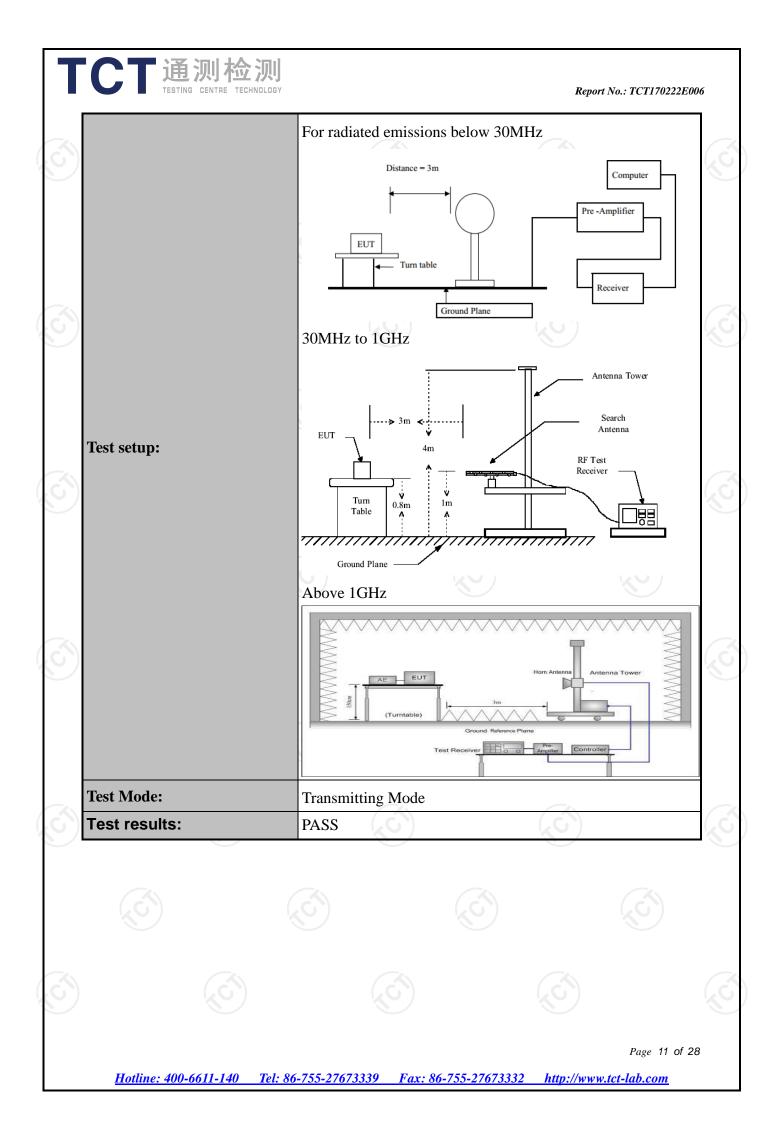
6.3. Radiated Emission Measurement

6.3.1. Test Specification

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Receiver Setup: 150kHz- 30MHz Quasi-peak 9kHz 30kHz Quasi-peak Value 30MHz-1GHz Quasi-peak 100KHz 300KHz Quasi-peak Value Above 1GHz Peak 1MHz 3MHz Peak Value	Test Requirement:	FCC Part15 C	Section 15.	.231(e) an	d 15.209	
Measurement Distance: 3 m Antenna Polarization: Horizontal & Vertical Receiver Setup:	Test Method:	ANSI C63.10:2013				
Antenna Polarization: Horizontal & Vertical Frequency Detector RBW VBW Remark 9kHz:150kHz Quasi-peak 200Hz 1kHz Quasi-peak Vali 30MHz Quasi-peak 9kHz 30kHz Quasi-peak Vali 30MHz:1GHz Quasi-peak 10KHz Quasi-peak Vali Above 1GHz Peak 1MHz 10Hz Average Valix 1. The EUT was placed on the top of a rotating table of meters above the ground in abo 1GHz, 1.5m above the ground in abo 1GHz, 1.5m above the ground in abo 1GHz. The table was rotated 360 degrees determine the position of the highest radiation. 2. The eatenna height is varied from one meter to for meters above the ground to determine the maximu value of the field strength. Both horizontal a vertical polarizations of the antenna are set to ma the measurement. 4. For each suspected emission, the EUT was arrang to its worst case and then the antenna was tuned heights from 1 meter to 4 meters and the rotatal table was turned from 0 degrees to 360 degrees find the maximum re	Frequency Range:	9 kHz to 5 GH	Ιz	\mathcal{T}		
Frequency Detector RBW VBW Remark. 9kHz-150kHz Quasi-peak 200Hz 1kHz Quasi-peak Vali 30MHz Quasi-peak 9kHz 30kHz Quasi-peak Vali 30MHz-1GHz Quasi-peak 100kHz 300kHz Quasi-peak Vali 30MHz-1GHz Quasi-peak 100kHz 300kHz Quasi-peak Vali Above 1GHz Peak 1MHz 10Hz Average Value 1. The EUT was placed on the top of a rotating table O meters above the ground in abo 1GHz. 1.5m above the ground in abo 1GHz. The table was rotated 360 degrees determine the position of the highest radiation. 2. The EUT was set 3 meters away from t interference-receiving antenna, which was mount on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to for meters above the ground to determine the maximu value of the field strength. Both horizontal a vertical polarizations of the antenna are set to ma the measurement. 4. For each suspected emission, the EUT was arrang to its worst case and then the antenna was tuned heights from 1 meter to 4 meters and the rotatat table was turned from 0 degrees to 360 degrees find the maximum reading. 5. The test-receiver system was set to Peak Deter Function and Specified Bandwidth with Maximu Hold Mode. 6. If the emissi	Measurement Distance:	3 m				
 Receiver Setup: 9kHz-150kHz Quasi-peak 200Hz 1kHz Quasi-peak Vali 30MHz 0uasi-peak Vali 30MHz 10Hz 0uasi-peak Vali 30MHz 1GHz 0uasi-peak 100KHz 0uasi-peak Vali Above 1GHz Peak 10Hz 300HHz 0uasi-peak Valie Peak 10Hz 30HHz 10Hz Average Value 1. The EUT was placed on the top of a rotating table 0 meters above the ground at a 3 meter camber below 1GHz. The table was rotated 360 degrees determine the position of the highest radiation. 2. The EUT was set 3 meters away from t interference-receiving antenna, which was mount on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to for meters above the ground to determine the maximu value of the field strength. Both horizontal a vertical polarizations of the antenna are set to ma the measurement. 4. For each suspected emission, the EUT was arrang to its worst case and then the antenna was tuned heights from 1 meter to 4 meters and the rotatat table was turned from 0 degrees to 360 degrees find the maximum reading. 5. The test-receiver system was set to Peak Dete Function and Specified Bandwidth with Maximu Hold Mode. 6. If the emission level of the EUT in peak mode w 10dB lower than the limit specified, then testing con be stopped and the peak values of the EUT would reported. Otherwise the emissions that did not ha 	Antenna Polarization:	Horizontal &	Vertical			
 Receiver Setup: 9kHz-150kHz Quasi-peak 200Hz 1kHz Quasi-peak Vali 30MHz 0uasi-peak Vali 30MHz 10Hz 0uasi-peak Vali 30MHz 1GHz 0uasi-peak 100KHz 0uasi-peak Vali Above 1GHz Peak 10Hz 300HHz 0uasi-peak Valie Peak 10Hz 30HHz 10Hz Average Value 1. The EUT was placed on the top of a rotating table 0 meters above the ground at a 3 meter camber below 1GHz. The table was rotated 360 degrees determine the position of the highest radiation. 2. The EUT was set 3 meters away from t interference-receiving antenna, which was mount on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to for meters above the ground to determine the maximu value of the field strength. Both horizontal a vertical polarizations of the antenna are set to ma the measurement. 4. For each suspected emission, the EUT was arrang to its worst case and then the antenna was tuned heights from 1 meter to 4 meters and the rotatat table was turned from 0 degrees to 360 degrees find the maximum reading. 5. The test-receiver system was set to Peak Dete Function and Specified Bandwidth with Maximu Hold Mode. 6. If the emission level of the EUT in peak mode w 10dB lower than the limit specified, then testing con be stopped and the peak values of the EUT would reported. Otherwise the emissions that did not ha 		Frequency	Detector	RBW	VBW	Remark
Receiver Setup: 150kHz- 30MHz Quasi-peak Quasi-peak 9kHz 30kHz Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak 100KHz Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak 100KHz Quasi-peak Value Quasi-peak Value Peak Quasi-peak Value Quasi-peak Value Peak 100KHz Quasi-peak Value Quasi-peak Value Peak Quasi-peak Value Quasi-peak Value Peak Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak Quasi-peak Value Quasi-peak Value Pak Value Quasi-peak Value Quasi-peak V			Quasi-peak	200Hz		Quasi-peak Value
30MHz-1GHz Quasi-peak 100KHz 300KHz Quasi-peak Value Above 1GHz Peak 1MHz 3MHz Peak Value 1 The EUT was placed on the top of a rotating table 0 meters above the ground at a 3 meter camber below 1GHz, 1.5m above the ground in abo 1GHz. The table was rotated 360 degrees determine the position of the highest radiation. 2. The EUT was set 3 meters away from t interference-receiving antenna, which was mount on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to for meters above the ground to determine the maximu value of the field strength. Both horizontal a vertical polarizations of the antenna are set to ma the measurement. 4. For each suspected emission, the EUT was arrang to its worst case and then the antenna was tuned heights from 1 meter to 4 meters and the rotatat table was turned from 0 degrees find the maximu reading. 5. The test-receiver system was set to Peak Deter Function and Specified Bandwidth with Maximu Hold Mode. 6. If the emission level of the EUT in peak mode w 10dB lower than the limit specified, then testing cord be stopped and the peak values of the EUT would reported. Otherwise the emissions that did not ha	Receiver Setup:		Quasi-peak	9kHz	30kHz	Quasi-peak Value
 Above 1GH2 Peak 1MHz 10Hz Average Value 1. The EUT was placed on the top of a rotating table 0 meters above the ground at a 3 meter camber below 1GHz, 1.5m above the ground in abo 1GHz. The table was rotated 360 degrees determine the position of the highest radiation. 2. The EUT was set 3 meters away from t interference-receiving antenna, which was mount on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to fo meters above the ground to determine the maximu value of the field strength. Both horizontal a vertical polarizations of the antenna are set to ma the measurement. 4. For each suspected emission, the EUT was arrang to its worst case and then the antenna was tuned heights from 1 meter to 4 meters and the rotatat table was turned from 0 degrees to 360 degrees find the maximum reading. 5. The test-receiver system was set to Peak Deter Function and Specified Bandwidth with Maximu Hold Mode. 6. If the emission level of the EUT in peak mode w 10dB lower than the limit specified, then testing cot be stopped and the peak values of the EUT would reported. Otherwise the emissions that did not ha 	ľ	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
 The EUT was placed on the top of a rotating table 0 meters above the ground at a 3 meter camber below 1GHz, 1.5m above the ground in abo 1GHz. The table was rotated 360 degrees determine the position of the highest radiation. The EUT was set 3 meters away from t interference-receiving antenna, which was mount on the top of a variable-height antenna tower. The antenna height is varied from one meter to for meters above the ground to determine the maximu value of the field strength. Both horizontal a vertical polarizations of the antenna are set to ma the measurement. For each suspected emission, the EUT was arrang to its worst case and then the antenna was tuned heights from 1 meter to 4 meters and the rotatat table was turned from 0 degrees to 360 degrees find the maximum reading. The test-receiver system was set to Peak Deter Function and Specified Bandwidth with Maximu Hold Mode. If the emission level of the EUT in peak mode w 10dB lower than the limit specified, then testing coube stopped and the peak values of the EUT would reported. Otherwise the emissions that did not ha 			Peak	1MHz	3MHz	Peak Value
 meters above the ground at a 3 meter camber below 1GHz, 1.5m above the ground in abo 1GHz. The table was rotated 360 degrees determine the position of the highest radiation. 2. The EUT was set 3 meters away from t interference-receiving antenna, which was mount on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to for meters above the ground to determine the maximu value of the field strength. Both horizontal a vertical polarizations of the antenna are set to ma the measurement. 4. For each suspected emission, the EUT was arrang to its worst case and then the antenna was tuned heights from 1 meter to 4 meters and the rotatat table was turned from 0 degrees to 360 degrees find the maximum reading. 5. The test-receiver system was set to Peak Deter Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode winded beight and the peak values of the EUT would reported. Otherwise the emissions that did not had be the peak values of the EUT would reported. 		Above IGHZ	Peak	1MHz	10Hz	Average Value
peak, quasi-peak or average method as specified a		 3. The antermeters all value of vertical p the meas 4. For each s to its work heights fit table was find the meas 5. The test-Function Hold Mode 6. If the eminant 10 dB lower be stopped reported. 10 dB mark 	nna height bove the gr the field olarizations ourement. Suspected st case and rom 1 meters turned from naximum re- receiver sy and Specter sign level of than the d and the p Otherwise gin would	is varied ound to o strength s of the a emission d then the er to 4 m om 0 deg eading. ystem w sified Bai l of the B limit spece beak value the emis be re-te	from on determine antenna a , the EU e antenna reters an grees to as set t ndwidth EUT in p cified, the es of the ssions the	the meter to four the the maximum horizontal and are set to mak T was arrange ha was tuned to hd the rotatabl 360 degrees to to Peak Deter with Maximum beak mode wa en testing coul at did not hav e by one usin

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6.3.2. Limit

Fundamental Frequency (MHz)	Filed Strength of Fundamental (microvolts/meter)	Filed Strength of Spurious Emission (microvolts/meter)
40.66-40.70	1000	100
70-130	500	50
130-174	500 to 1500*	50 to 150*
174-260	1500	150
260-470	1500 to 5000*	150 to 500*
Above 470	5000	500

*Linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

For the band 130-174 MHz, μ V/m at 3 meters = 22.7273(F) – 2454.5455;

for the band 260-470 MHz, μ V/m at 3 meters = 16.6667(F) - 2833.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

For EUT

Fundamental Frequency	Filed Strength of Fundamental	Filed Strength of Spurious
(MHz)	(microvolts/meter)	Emission(dBµV/m)
433.92	72.87	52.87

Note:

 Intentional radiators operating under the provisions of this Section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions.
 According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits Shown are based on

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

Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
0.009-0.490	3	20log 2400/F (kHz) + 80
0.490-1.705	-1.705 3 20log 24000/F (l	
1.705-30	3 6	20log 30 + 40
30-88	3	40.0
88-216	3	43.5
216-960 3		46.0
Above 960	Above 960 3 54.0	

Note:

1. RF Voltage $(dBuV) = 20 \log RF$ Voltage (uV)

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2. In the Above Table, the tighter limit applies at the band edges.

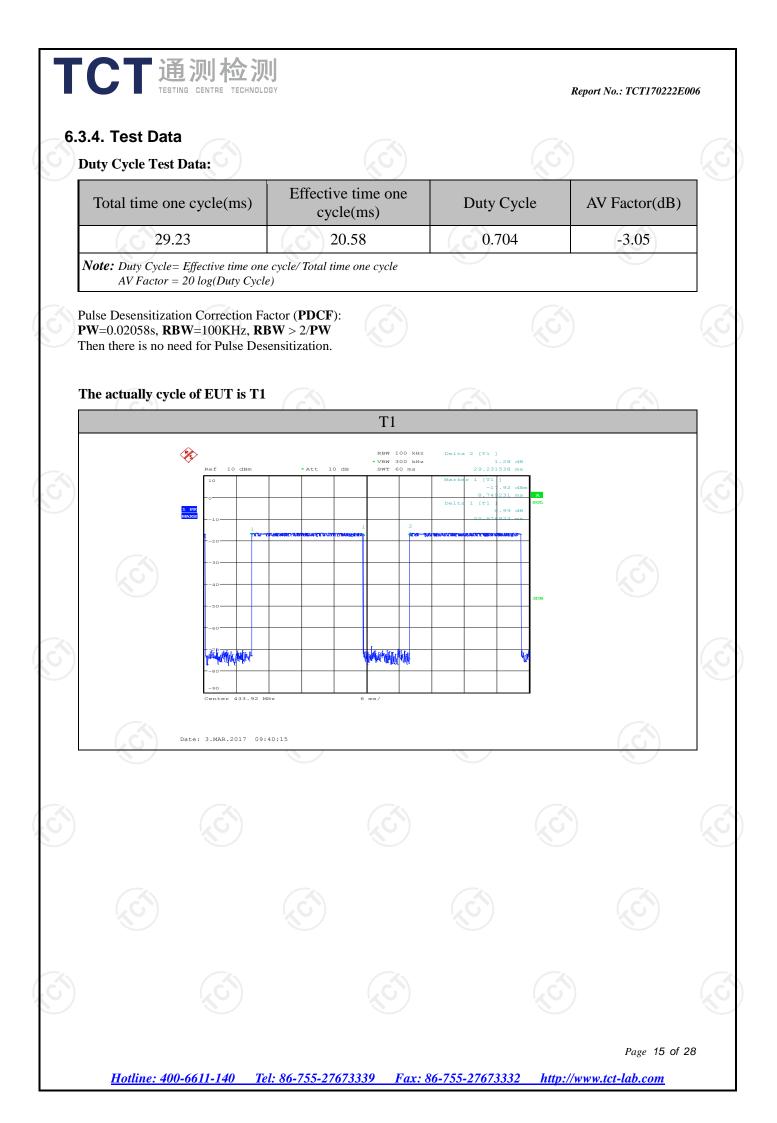
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula Ld1 = Ld2 * (d2/d1)

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6.3.3. Test Instruments

	Radiated Emissi	on Test Site (9	966)	
Name of Equipment	Manufacturer	Model	Date of Calibration	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESVD	Aug. 12, 2016	Aug. 11, 2017
Spectrum Analyzer	ROHDE&SCHWARZ	FSEM	Aug. 12, 2016	Aug. 11, 2017
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	Aug. 12, 2016	Aug. 11, 2017
Pre-amplifier	HP	8447D	Aug. 12, 2016	Aug. 11, 2017
Loop antenna	ZHINAN	ZN30900A	Aug. 14, 2016	Aug. 13, 2017
Broadband Antenna	Schwarzbeck	VULB9163	Aug. 14, 2016	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9120D	Aug. 14, 2016	Aug. 13, 2017
Coax cable (9kHz-40GHz)	тст	N/A	Aug. 13, 2016	Aug. 12, 2017
Coax cable (9kHz-40GHz)	ТСТ	N/A	Aug. 13, 2016	Aug. 12, 2017
Coax cable (9kHz-40GHz)	ТСТ	N/A	Aug. 13, 2016	Aug. 12, 2017
Coax cable (9kHz-40GHz)	ТСТ	N/A	Aug. 13, 2016	Aug. 12, 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).





Field Strength of Fundamental

Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
433.92	73.45	Н	92.87	-19.42
433.92	72.32	V	92.87	-20.55
	(C)	N.	5)	(c)

Frequency (MHz)	Emission PK (dBuV/m)	AV Factor(dB)	Horizontal /Vertical	Emission AVG (dBuV/m)	Limits AV (dBuV/m)	Margin (dB)	NO.
433.92	73.45	-3.05	Н	70.40	72.87	-2.47	
433.92	72.32	-3.05	V	69.27	72.87	-3.60	
							•

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)			
Remark: The margin for All level in this frequency band is > 20dB form					
Limit, so not listed in report. It is deemed to comply with the requirement					

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

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Report No.: TCT170222E006

Frequency Range (30MHz–5GHz)

Frequency (MHz)	Emission Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)	Remark	Result
32.18	27.79	Н	40.0	QP	PASS
867.84	42.90	Н	52.87	QP	PASS
1301.76	54.49	Н	74.0	Peak	PASS
1735.68	52.50	Н	74.0	Peak	PASS
32.18	25.53	VG	40.0	QP	PASS
867.84	42.76	v	52.87	QP	PASS
1301.76	54.31	V	74.0	Peak	PASS
1735.68	49.73	V	74.0	Peak	PASS

Frequency (MHz)	Peak Emission Level@3m (dBµV/m)	AV Factor (dB)	Antenna Polarity	AV Emission Level@3m (dBuV/m)	Limit@3m (dBµV/m)	Result
1301.76	54.49	-3.05	Н	51.44	54.0	PASS
1735.68	52.50	-3.05	Н	49.45	54.0	PASS
1301.76	54.31	-3.05	V	51.26	54.0	PASS
1735.68	49.73	-3.05	V	46.68	54.0	PASS

Note: Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor AV=Average AV Emission level = Peak Emissions level +AV Factor

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6.4. Occupied Bandwidth

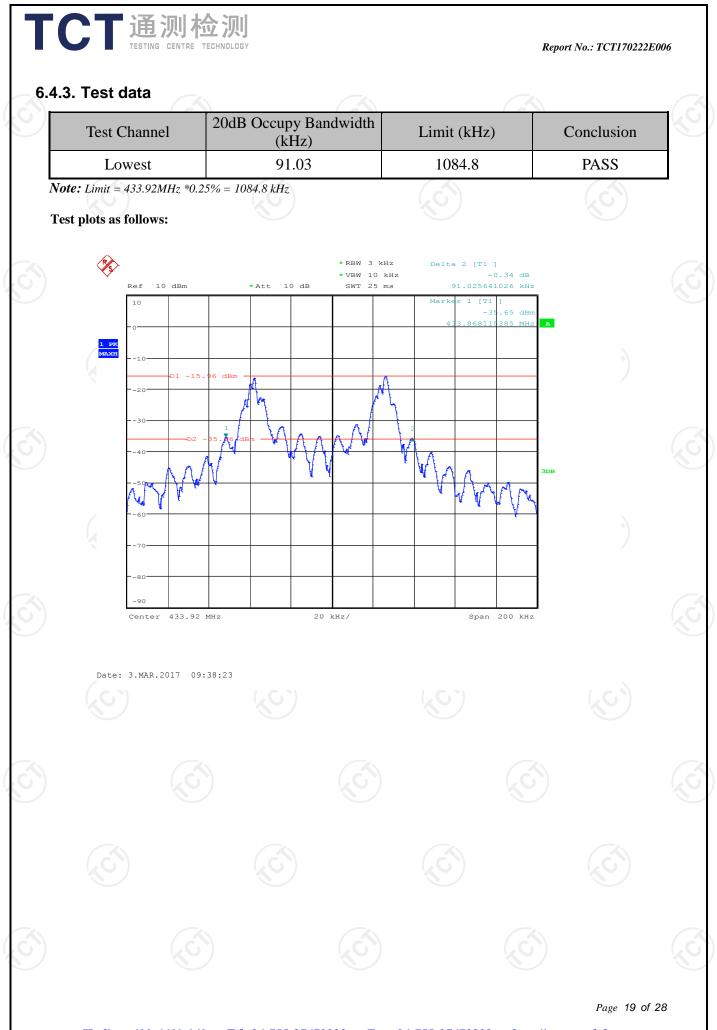
6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2013
Limit:	According to 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the centre frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the centre frequency Bandwidth is determined at the points 20 dB down from the modulated carrier.
	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously.
	 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dE bandwidth, centered on a hopping channel; RBW ≥ 1% of the 20 dB bandwidth; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.
Test setup:	
	Spectrum Analyzer EUT
Test Mode:	Transmitting Mode
Test results:	PASS

6.4.2. Test Instruments

	.5		G			
RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017		

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



6.5. Transmission time and silent time

6.5.1. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15 C Section 15.231(e)
Test Method:	ANSI C63.10: 2013
Limit:	According to 15.231(e), devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.
	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings. For transmission time: Span = 0MHz, centered on a declared channel; RBW=100kHz; VBW≥3RBW; Sweep = 1s; Detector function = peak, record the transmission time. For silent time: Span = 0MHz, centered on a declared channel; RBW=100kHz; VBW≥3RBW; Sweep = 1s; Detector function = peak, record the transmission time. For silent time: Span = 0MHz, centered on a declared channel; RBW=100kHz; VBW ≥ 3RBW; Sweep = as necessary to capture at least two periodic time; Detector function = peak, record the silent time. Measure and record the results in the test report.
Test setup:	Spectrum Analyzer
Test Mode:	Transmitting Mode
Test results:	PASS

6.5.2. Test Instruments

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