

# **TEST REPORT**

FCC ID: 2AIT9PG-103

**Product: Alarm Host** 

Model No.: PG-103

Additional Model No.: N/A

**Trade Mark: PGST** 

Report No.: TCT171023E036

Issued Date: Oct. 25, 2017

Issued for:

SZ PGST CO., LTD

No.3, Xinggong 1 Rd, Hongxing Community, Gongming Agency, Guangming New District, Shenzhen City, China

Issued By:

**Shenzhen Tongce Testing Lab.** 

1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

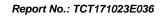
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FAX: +86-755-27673332

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# 1. Test Certification

Product:	Alarm Host					
Model No.:	PG-103					
Additional Model No.:	N/A (S)					
Trade Mark:	PGST					
Applicant:	SZ PGST CO., LTD					
Address:	No.3, Xinggong 1 Rd, Hongxing Community, Gongming Agency, Guangming New District, Shenzhen City, China					
Manufacturer:	SZ PGST CO., LTD					
Address:	No.3, Xinggong 1 Rd, Hongxing Community, Gongming Agency, Guangming New District, Shenzhen City, China					
Date of Test:	Jun. 21, 2017 - Jul. 05, 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.

Tested By:

rai ov

Date: Jul. 05, 2017

Garen

Reviewed By:



Date: Oct. 25, 2017

Approved By: Date:

**Tomsin** 

e: Oct. 25, 2017



# 2. Test Result Summary

Requirement	CFR 47 Section	Result
Conduction Emission, 0.15MHz to 30MHz	§15.207	PASS
Transmission time and silent time	15.23(e)	PASS
Radiation Emission	§15.231(e), §15.205, §15.209, §15.35	PASS
Occupied Bandwidth	§15.231(c)	PASS

### Note:

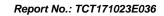
- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

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# 3. EUT Description

	/ = 11
Product:	Alarm Host
Model No.:	PG-103
Additional Model No.:	N/A
Trade Mark:	PGST
Hardware version:	PG-103 V2.3
Software version:	103-3G-H
Operation Frequency:	433.92±0.5MHz
Modulation Technology:	2ASK
Antenna Type:	Integral Antenna
Antenna Gain:	2dBi
Power Supply:	Rechargeable Li-ion Battery DC3.7V / 300mAh
Adapter:	Adapter: RD0501000-USBA-18MG Input: AC 100~240V 50/60Hz 0.25A Output: DC 5V1000mA





# 4. Genera Information

### 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 modulation

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.

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

For Conducted Emission				
Final Test Mode	Description			
Mode 1		Transmitter		
	(, G ')	(,0,1)	(,G)	

For Radiated Emission						
Final Test Mode		Description				
Mode 1	()	Transmitter	(2C)			



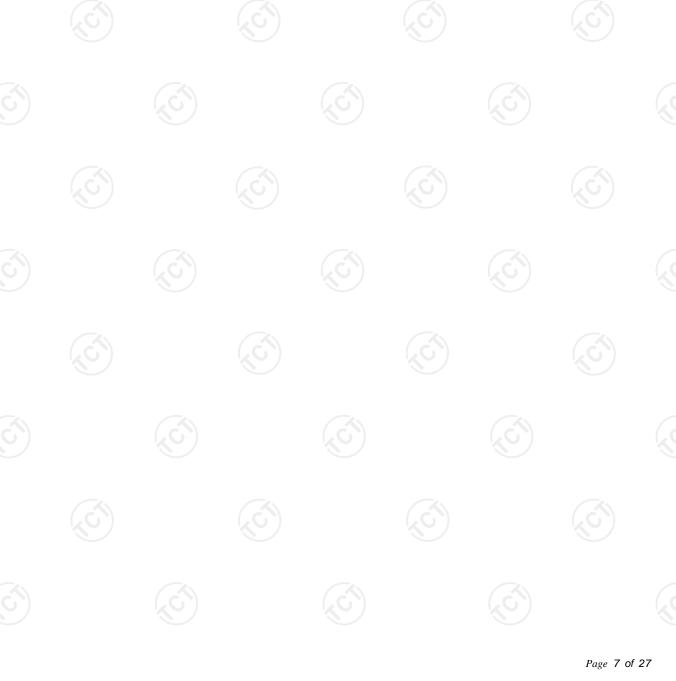
# 4.2. Description of Support Units

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
/	/	/	/	/

### 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





# 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
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%



# 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 antenna is integral Antenna which permanently attached, and the best case gain of the antenna is 2dBi.



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# 6.2. Conducted Emission

# 6.2.1. Test Specification

	1				
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				
	Frequency range	Limit (d	lBuV)		
	(MHz)	Quasi-peak	Average		
Limits:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	Refere	nce Plane			
Test Setup:	AUX Filter AC power  Equipment E.U.T  Remark  E U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
Test Mode:	Transmitting Mode				
Test Procedure:	<ol> <li>The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>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).</li> <li>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.</li> </ol>				
Test Result:	PASS				



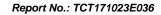
### 6.2.1. Test Instruments

Conducted Emission Shielding Room Test Site (843)							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
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).

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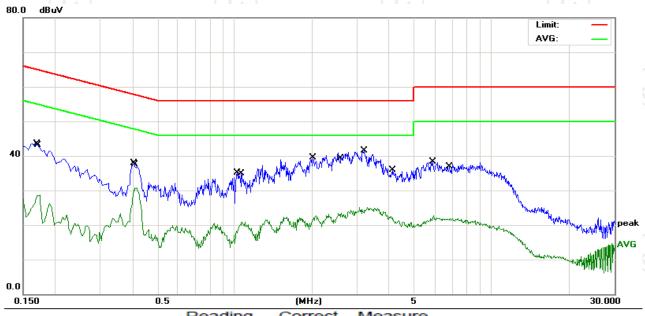




### 6.2.2. Test data

# Please refer to following diagram for individual

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



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
-			MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector
-	1		0.1700	33.15	10.44	43.59	64.96	-21.37	QP
	2		0.1740	18.20	10.44	28.64	54.76	-26.12	AVG
	3		0.4060	27.46	10.41	37.87	57.73	-19.86	QP
_	4		0.4140	20.32	10.41	30.73	47.57	-16.84	AVG
_	5		1.0220	24.86	10.34	35.20	56.00	-20.80	QP
_	6		1.0660	10.58	10.34	20.92	46.00	-25.08	AVG
	7		2.0180	29.25	10.29	39.54	56.00	-16.46	QP
	8		2.6020	13.13	10.28	23.41	46.00	-22.59	AVG
-	9	*	3.1780	31.23	10.27	41.50	56.00	-14.50	QP
_	10		4.0580	12.33	10.25	22.58	46.00	-23.42	AVG
	11		5.8900	28.09	10.22	38.31	60.00	-21.69	QP
_	12		6.9140	11.75	10.21	21.96	50.00	-28.04	AVG

#### Notes:

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

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

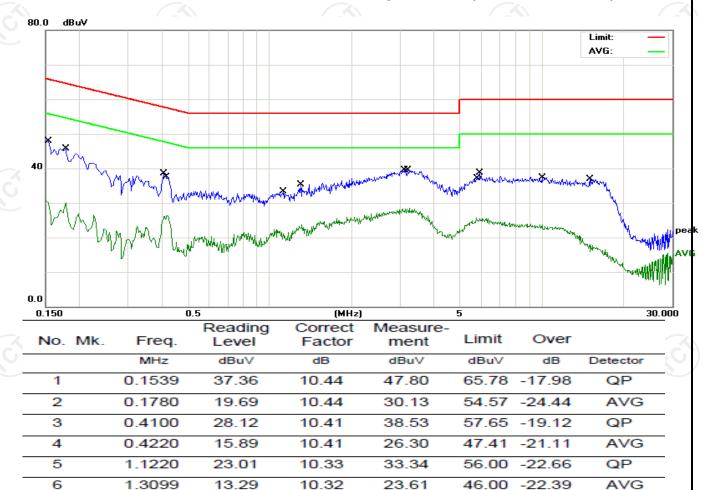
Q.P. =Quasi-Peak

AVG =average

<sup>\*</sup> 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)



#### Notes:

8

9

10

11

12

Freq. = Emission frequency in MHz

3.1340

3.2420

5.7260

5.9060

9.9940

14.9380

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)

29.30

18.22

15.44

28.44

13.45

26.66

Limit (dBµV) = Limit stated in standard

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

Q.P. =Quasi-Peak

AVG =average

10.27

10.27

10.22

10.22

10.19

10.15

39.57

28.49

25.66

38.66

23.64

36.81

QP

AVG

AVG

AVG

QP

QP

56.00 -16.43

46.00 -17.51

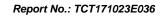
50.00 -24.34

60.00 -21.34

50.00 -26.36

60.00 -23.19

<sup>\*</sup> is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



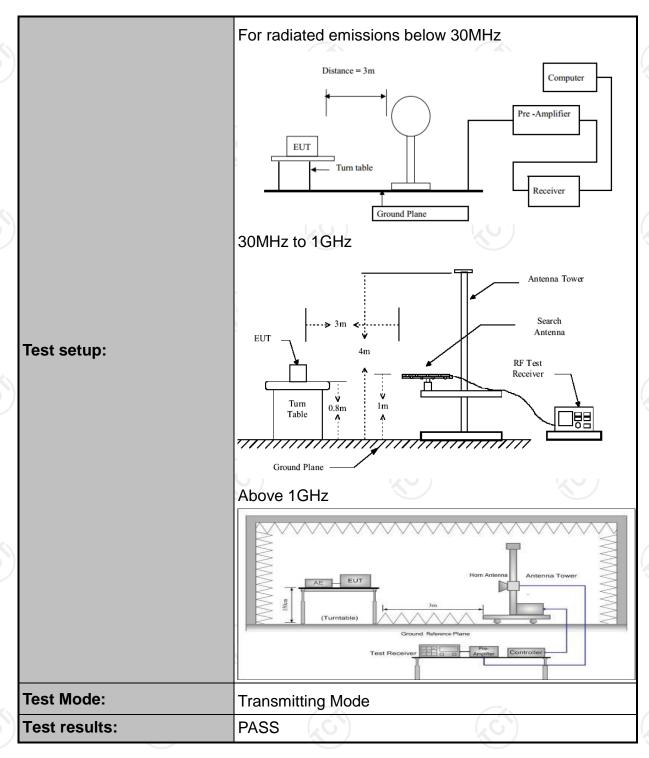


# 6.3. Radiated Emission Measurement

# 6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231(e) and 15.209				
Test Method:	ANSI C63.10:2013				
Frequency Range:	9 kHz to 5 G	Hz			
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal &	Vertical			
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz	Detector Quasi-peak Quasi-peak Quasi-peak	RBW 200Hz 9kHz 100KHz	VBW 1kHz 30kHz	Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Value
	150kHz- Quasi-peak 9kHz 30kHz Quasi-peak Value 30MHz 30MHz-1GHz Quasi-peak 100KHz 300KHz Quasi-peak Value  Peak 1MHz 3MHz Peak Value				







#### 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

<sup>\*</sup>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,  $\mu$ V/m at 3 meters = 22.7273(F) – 2454.5455; for the band 260-470 MHz,  $\mu$ 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 (MHz)	Filed Strength of Fundamental (microvolts/meter)	Filed Strength of Spurious 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.
- 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

Distance (m)	
Distance (m)	Field strength (dBµ V/m)
3	20log 2400/F (kHz) + 80
3	20log 24000/F (kHz) + 40
3	20log 30 + 40
3	40.0
3	43.5
3	46.0
3	54.0
	3 3 3 3 3 3

### Note:

- RF Voltage (dBuV) = 20 log RF Voltage (uV)
   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 EUT4. 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 Em	nission 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).

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### 6.3.4. Test Data

# Field Strength of Fundamental

Frequency (MHz)	Emission QP (dBuV/m)	Horizontal /Vertical	Limits QP (dBuV/m)	Margin (dB)
433.92	82.43	Н	92.87	-10.44
433.92	82.07	V	92.87	-10.8

Acrroding to section 6.5 of this report, the one pluse dwell time is longer then 100ms, so the duty cycle is consider to be 1,AV Factor =0.

# **Harmonics and Spurious Emissions**

Frequency Range (9 kHz-30MHz)

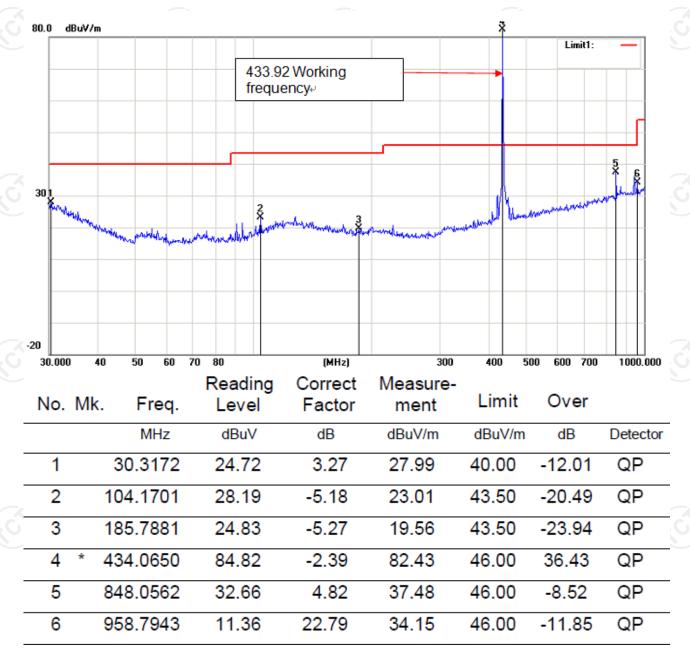
Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)		
Remark: The margin for All level in this frequency band is > 20dB form				
Limit, so not listed in report. It is deemed to comply with the requirement				

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





# Radiated Emission Data (Frequency from 30MHz to 1GHz)

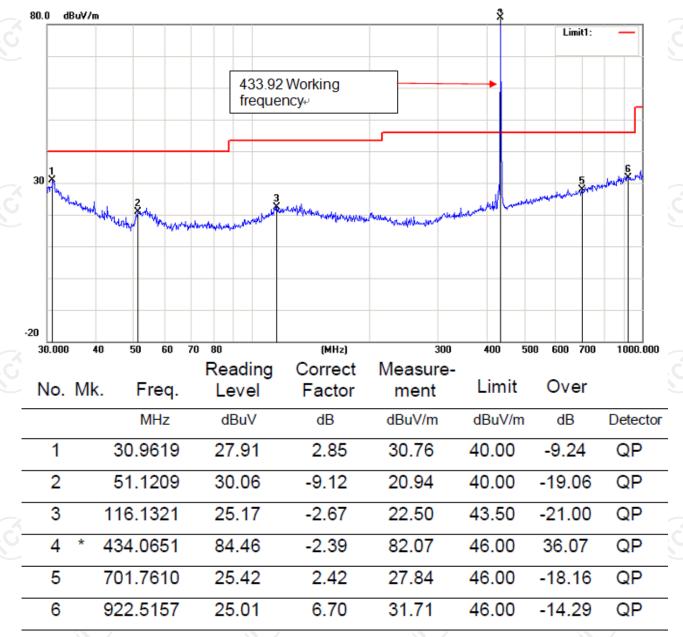


Remark: All the modes have been investigated, and only worst mode is presented in this report.

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Remark: All the modes have been investigated, and only worst mode is presented in this report.





### Radiated Emission Data (Frequency above 1GHz)

Freq.	Ant. Pol.	Emission Lo	evel(dBuV)	Limit 3m(dE	BuV/m)	Ove	r(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV
1653.24	V	60.06	40.07	74	54	-13.94	-13.93
2829.20	V	59.59	39.05	74	54	-14.41	-14.95
1663.36	Н	58.33	40.28	74	54	-15.67	-13.72
2836.66	Н	58.81	39.81	74	54	-15.19	-14.19

#### Remark:

- 1.All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2.All the x/y/z orientation has been investigated, and only worst case is presented in this report.
- 3.Limit is given in the average value (AV) limit, and peak detection method is used in test detection (PK), according to Section 15.231
- 4.If average emission measurements are employed, the provisions in §15.35 for averaging pulsed emissions and for limiting peak emissions apply. Therefore:

Emission AV = Emission PK +AV Factor

AV Factor=20lg(The duration of one cycle)/(Effective period of the cycle)



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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.			
	<ol> <li>According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Use the following spectrum analyzer settings for 20dB Bandwidth measurement.         Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW ≥ 1% of the 20 dB bandwidth; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold.     </li> <li>Measure and record the results in the test report.</li> </ol>			
Test setup:	Spectrum Analyzer EUT			
Test Mode:	Transmitting Mode			
Test results:	PASS			

## 6.4.2. Test Instruments

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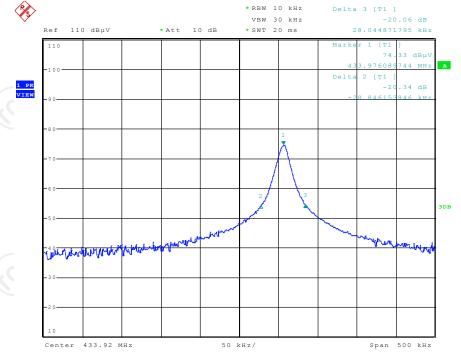


## 6.4.3. Test data

Test Channel	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
Lowest	76	1084.8	PASS

**Note:** Limit = 433.92MHz \*0.25% = 1084.8 kHz

### Test plots as follows:





# 6.5. Transmission time and silent time

# 6.5.1. Test Specification

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.
	<ol> <li>According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>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 = as necessary to capture at least two periodic time; Detector function = peak, record the silent time.</li> </ol> <li>Measure and record the results in the test report.</li>
Test setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting Mode
Test results:	PASS (O)

### 6.5.2. Test Instruments

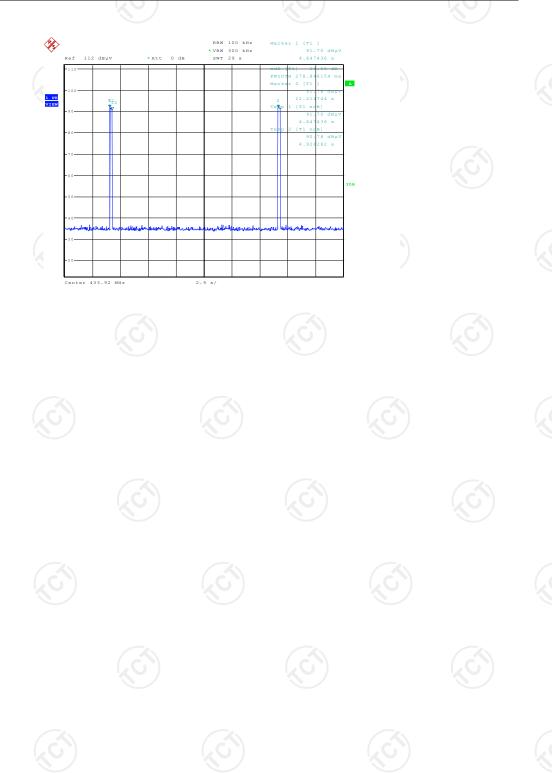
RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018	

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



# 6.5.3. Test data

Ton/Toff (s)	Ton/Toff limits(s)	Result	
0.279	Ton<1	Pass	
21.936	Toff >30Ton	Pass	



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

Refer to test report TCT171023E035

# **Appendix B: Photographs of EUT**

Refer to test report TCT171023E035



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