

## **FCC Test Report**

## Report No: FCS202408397W01

### Issued for

Applicant:	Shenzhen Paian Technology Co., Ltd.		
Address:	Fl. 6-8,Bldg. 1,Haitian Lanyu Tech. Park,No. 5 Gongye 2nd Rd.,Shilong Community,Shiyan St.,Bao'an Dist., Shenzhen, China		
Product Name:	doorbell		
Brand Name:	N/A		
Model Name:	SC-A320		
Series Model:	SC-A310		
FCC ID:	2BKX7SC-A320		
Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com			



#### **TEST RESULT CERTIFICATION**

Applicant's Name:	Shenzhen Paian Technology Co., Ltd.
Address	Fl. 6-8,Bldg. 1,Haitian Lanyu Tech. Park,No. 5 Gongye 2nd Rd.,Shilong Community,Shiyan St.,Bao'an Dist., Shenzhen, China
Manufacture's Name:	Shenzhen Paian Technology Co., Ltd.
Address	Fl. 6-8,Bldg. 1,Haitian Lanyu Tech. Park,No. 5 Gongye 2nd Rd.,Shilong Community,Shiyan St.,Bao'an Dist., Shenzhen, China
Product Description	
Product Name:	doorbell
Brand Name:	N/A
Model Name:	SC-A320
Series Model	SC-A310
Test Standards	FCC Rules and Regulations Part 15 Subpart C, Section 231
Test Procedure:	ANSI C63.10:2013

This device described above has been tested FCS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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#### Date of Test.....

Date (s) of performance of tests : Aug 23. 2024 ~ Aug 28. 2024

Date of Issue .....: Aug 28. 2024

Test Result ..... Pass

Tested by

Scott shen :

(Scott Shen)

Reviewed by

Dukelian

(Duke Qian)



Approved by

(Jack Wang)

Jukou

Flux Compliance Service Laboratory

:



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# Flux Compliance Service Laboratory Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com



#### **Revision History**

Rev.	Issue Date	Effect Page	Contents
00	Aug 28. 2024	All	Initial Issue



#### 1. SUMMARY OF TEST RESULTS

FCC Part 15.231, Subpart C					
Standard Section	Lest Item				
15.207	Conducted Emission	N/A			
15.209, 15.231(b)	Radiated Emission	PASS			
15.231(a) (1)	Transmitter time	PASS			
15.231(c)	20dB Bandwidth	PASS			
15.231	Duty cycle	PASS			
15.203	Antenna Requirement	PASS			

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

(2) All tests are according to ANSI C63.10-2013





#### **1.1 TEST FACTORY**

Company Name:	Flux Compliance Service Laboratory			
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan			
Telephone:	+86-769-27280901			
Fax:	+86-769-27280901			
FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01				

#### 1.2 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	Uncertainty
1	RF output power, conducted	±0.71dB
2	Unwanted Emissions, conducted	±2.98 dB
3	Conducted Emission (9KHz-150KHz)	±4.13 dB
4	Conducted Emission (150KHz-30MHz)	±4.74 dB
5	All emissions,radiated(<1G) 30MHz-1000MHz	±3.2 dB
6	All emissions, radiated (1GHz -18GHz)	±3.66 dB
7	All emissions, radiated (18GHz -40GHz)	±4.31 dB



#### 2. GENERAL INFORMATION

#### 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	doorbell
Trade Name	N/A
Model Name	SC-A320
Series Model	SC-A310
Model Difference	Only the model name and appearance differ.
Frequency	433.92MHZ
Modulation	ООК
Antenna type	PCB antenna
Battery	DC 3V from Lithium battery
Hardware version number	V1.0
Software version number	V1.0
Connecting I/O Port(s)	Please refer to the User's Manual

#### Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	SC-A320	PCB Antenna	N/A	0 dBi	Antenna

#### 2.2 DESCRIPTION OF THE TEST MODES

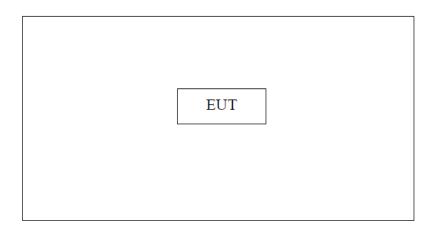
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration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

This sample triggers the emission frequency via the remote control.



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#### Configuration and peripherals



Test environment conditions During the measurement the environmental conditions were within the listed ranges: Temperature range:  $21-25^{\circ}$ Humidity range:  $40-75^{\circ}$ Pressure range: 86-106kPa

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#### 2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

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#### Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note

#### Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in  $^{\mathbb{C}}$  Length  $_{\mathbb{Z}}$  column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



#### 2.4 EQUIPMENTS LIST

#### Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2023.08.29	2024.08.28
Signal Analyzer	R&S	FSV40-N	FCS-E012	2023.08.29	2024.08.28
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2023.08.29	2024.08.28
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2023.08.29	2024.08.28
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2023.08.29	2024.08.28
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2023.08.29	2024.08.28
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2023.08.29	2024.08.28
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2023.08.29	2024.08.28
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2023.08.29	2024.08.28
Temperature & Humidity	HTC-1	victor	FCS-E005	2023.08.29	2024.08.28

#### **Conduction Test equipment**

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2023.08.29	2024.08.28
LISN	R&S	ENV216	FCS-E007	2023.08.29	2024.08.28
LISN	ETS	3810/2NM	M FCS-E009 2023.		2024.08.28
Temperature & Humidity	HTC-1	victor	FCS-E008	2023.08.29	2024.08.28

#### **RF** Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No. Last calibration		Calibrated until	
Spectrum Analyzer	Keysight	N9020A	FCS-E015	2023.08.29	2024.08.28	
Spectrum Analyzer	Agilent	E4447A	MY50180039	2023.08.29	2024.08.28	
Spectrum Analyzer	R&S	FSV-40	101499	2023.08.29	2024.08.28	



#### 3. RADIATED EMISSION MEASUREMENT

#### 3.1 LIMIT

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009mhz - 1000mhz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

LIMITS OF FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL

FREQUENCY (MHz)	(dBuV/m) (at 3M)		
	PEAK	AVERAGE	
433.92	100.83	80.83	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz.Radiated emissions limits in these three bands are based on measurements employing an average detector

(2) At frequencies below 30MHz, measurement may be performed at a distance closer then that specified, and the limit at closer measurement distance can be extrapolated by below formula: Limit3m(dBuV/m)= Limit300m(dBuV/m) + 40Log(300m/3m) = Limit300m(dBuV/m) + 80 Limit3m(dBuV/m)= Limit30m(dBuV/m) + 40Log(30m/3m) = Limit30m(dBuV/m) + 40

#### (3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions include fundamental emission shall not exceed FCC 15.231 section (b) limit of comply with FCC 15.209 limit which permit higher emission level.

[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, uV/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, uV/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]



#### 3.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then QuasiPeak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

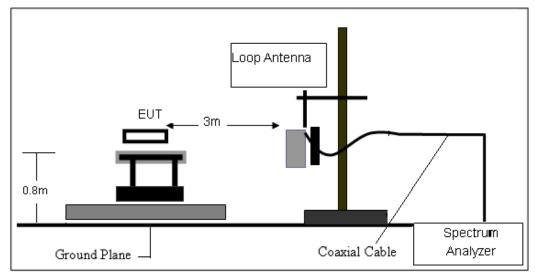
Note:

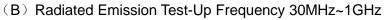
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

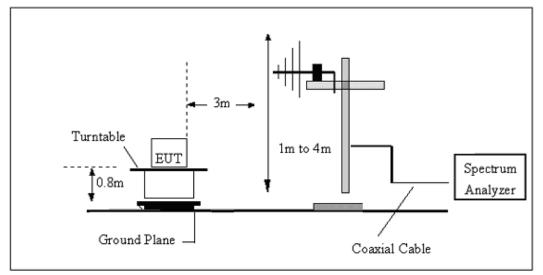


#### 3.3 TEST SETUP

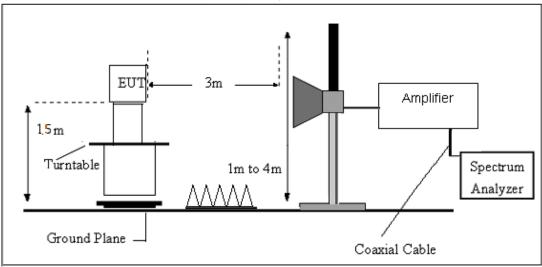
(A) Radiated Emission Test-Up Frequency Below 30MHz







(C) Radiated Emission Test-Up Frequency Above 1GHz





#### 3.4 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Mode:	ASK	Test Voltage:	DC 3V

#### For spurious emission

#### (9KHz-30MHz)

Freq.	Reading	Limit	Margin	State	Toot Dooult
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	Test Result
					PASS
					PASS

#### Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits (dBuv) + distance extrapolation factor.



#### (30MHZ-1000MHZ)

Temperature:	23.5℃	Relative Humidity:	60%
Test Voltage:	DC 3V	Phase:	Horizontal
Test Mode:	тх		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	35.8100	36.92	-15.91	21.01	40.00	-18.99	peak
2	83.3700	43.57	-22.52	21.05	40.00	-18.95	peak
3	251.1200	35.27	-16.10	19.17	46.00	-26.83	peak
5	635.2600	28.89	-4.93	23.96	46.00	-22.04	peak
6	867.8400	34.40	-0.51	33.89	46.00	-12.11	peak

#### **Fundamental Frequency**

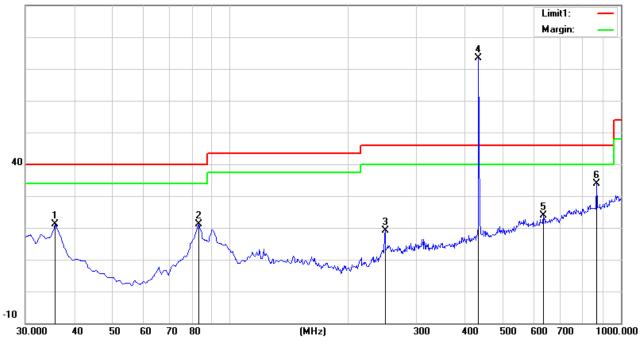
No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
4	433.9200	83.49	-10.13	-	73.36	100.83	-27.45	Peak
4	433.9200	83.49	-10.13	-5.33	68.03	80.83	-12.80	AV

#### Remark:

1. Margin = Result (Result = Reading + Factor )-Limit

2. Correct Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

90.0 dBuV/m





Temperature:	22.7°C	Relative Humidity:	61%
Test Voltage:	DC 3V	Phase:	Vertical
Test Mode:	тх		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	35.8800	49.41	-15.91	33.50	40.00	-6.50	peak
2	71.7600	38.96	-24.56	14.40	40.00	-25.60	peak
3	116.5300	34.22	-18.51	15.71	43.50	-27.79	peak
4	311.3300	30.94	-14.40	16.54	46.00	-29.46	peak
6	867.8400	39.99	-0.51	39.48	46.00	-6.52	peak

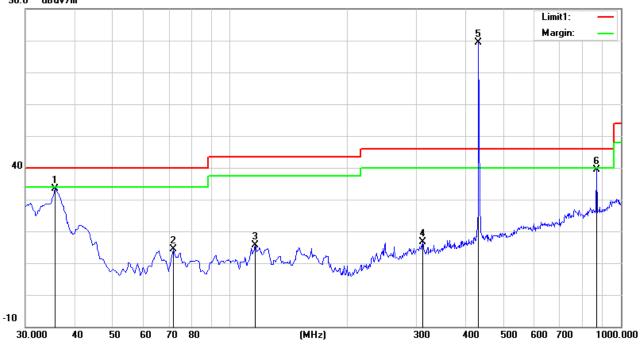
#### **Fundamental Frequency**

No.	Frequency	Reading	Correct	Duty cycle	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
5	433.9200	89.56	-10.13	-	79.43	100.83	-21.38	Peak
5	433.9200	89.56	-10.13	-5.33	74.10	80.83	-6.73	AV

Remark:

- 1. Margin = Result (Result = Reading + Factor )-Limit
- 2. Correct Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain







#### (Above ~ 1GHz)

					A	O a manufactura d	O a manufactul	FCC F	RX							
Frequency	Reading	Detector	Amplifier	Loss	Antenna	Corrected	Corrected	15.231/15.	1/15.209/205 Antenn							
					Factor	Factor	Amplitude	Limit	Margin	Polar						
(MHz)	(dBµV/m)	(PK/QP/AV)	(dB)	(dB)	(dB)	( <b>dB</b> )	(dBµV/m)	(dBµV/m)	(dB)	(H/V)						
1301.91	63.99	PK	45.1	4.0	25.1	-16.00	47.99	74	-26.01	Н						
1301.91	64.26	PK	45.1	4.0	25.1	-16.00	48.26	74	-25.74	V						
1735.83	61.48	PK	44.1	5.3	25	-13.80	47.68	74	-26.32	н						
1735.83	63.10	PK	44.1	5.3	25	-13.80	49.30	74	-24.70	V						
2169.74	60.23	PK	43.8	5.4	25.9	-12.47	47.76	74	-26.24	н						
2169.74	60.47	PK	43.8	5.4	25.9	-12.47	48.00	74	-26.00	V						
2603.75	55.95	PK	44.4	6.0	27.6	-10.77	45.18	74	-28.82	н						
2603.75	56.27	PK	44.4	6.0	27.6	-10.77	45.50	74	-28.50	V						

#### Remarks:

1. Above 2.6 GHz the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

2. The peak value is less than the AV limit, so AV data does not need to be tested.



#### **4. TRANSMITTER TIME**

#### **4.1 LIMIT**

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released

#### **4.2 TEST PROCEDURE**

a. The EUT' s RF signal was coupled to spectrum analyzer by antenna connected to

spectrum analyzer.

- b. Set the spectrum to zero span mode, and centered of EUT frequency.
- c. Measure the stop transmitting time after release EUT button

#### 4.3 TEST SETUP



Spectrum Analayzer



#### 4.4 TEST RESULTS

Activation time (Sec.)	Limit (Sec.)	Result
0.394	5 s	Pass



Mark 1: Hold down the Key (Start transmitting) Mark 2: Loose the Key Mark 3: Stop transmitting

Activation time= Mark 3- Mark 1=0.510-0.1160=0.394 s



#### 5. 20 DB BANDWIDTH TEST

#### **5.1 LIMIT**

The bandwidth of the emission shall be no wider than 0.25% of the center frequency of devices operation above 70MHz and below 900MHz.

#### **5.2 TEST PROCEDURE**

Connect EUT' s antenna output to spectrum analyzer by RF cable.

a.

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 1kHz RBW and 3kHz VBW. The 20dB bandwidth is defined as the total spectrum the

b. power of which is higher than peak power minus 20dB

5.3 TEST SETUP



Spectrum Analayzer



#### 5.4 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	50%
Test Mode:	ООК	Test Voltage:	DC 3V

Centre	Measurement												
Frequency	20dB Bandwidth (KHz) Limit(kHz) Frequency Range (MHz)												
433.92	8.984	1085	PASS										

#### 433.92MHz

RL RF 50Ω AC	9	ENSE:PULSE	ALIGN AUTO	05:09:17 PMAug 26, 202
enter Freg 433.920000 N		Center Freq: 433.9200	00 MHz	Radio Std: None
	#IFGain:Low	─ Trig: Free Run #Atten: 10 dB	Avg Hold:>10/10	Radio Device: BTS
dB/div Ref 8.00 dBm				
g				
00				
2.0				
.0		- Marine		
	~~~~~~~		mon	
				- man
2.0				
2.0				
2.0				
				Onen 50 ki
enter 433.9 MHz Res BW 1 kHz		#VBW 3 kHz		Span 50 kH Sweep   61.73 m
			-	aweep 01.731
Occupied Bandwidth	n	Total Power	-8.77 dBm	
2.	3.346 kHz			
Transmit Freq Error	-10 Hz	OBW Power	99.00 %	
	0.004.111-		00.00.10	
x dB Bandwidth	8.984 kHz	x dB	-20.00 dB	
3			<b>K</b> STATUS	



#### 6. DUTY CYCLE

6.1 LIMIT

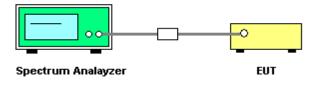
None: for reporting purposes only.

#### 6.2 TEST PROCEDURE

Set the Centre frequency of the spectrum analyzer to the transmitting frequency;

a. Set the span=0MHz, RBW=1 MHz, VBW=1 MHz, Sweep time=150ms;
 Trace mode = Single hold

6.3 TEST SETUP





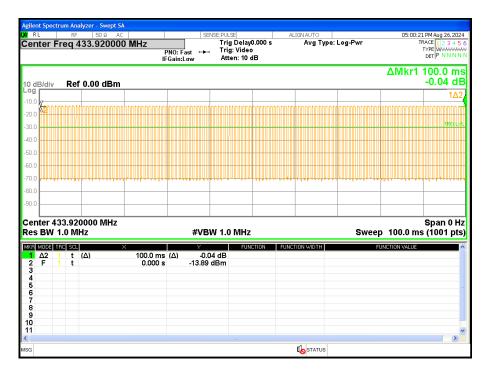
#### 6.4 TEST RESULTS

FCC Part	15.231(a)
Total On interval in a complete pulse train(ms)	54.12
Length of a complete pulse train(ms)	100
Duty Cycle (%)	54.12%
Duty Cycle Correction Factor(dB)	-5.33

Refer to the duty cycle plot (as below), This device meets the FCC requirement. Length of a complete pulse train

Remark: FCC part15.35(c) required that a complete pulse train is more than 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

Note: Number of pulse train 1 = 123, Time of single pulse train 1 = 0.44ms; Total  $T_{ON}$ = 123\*0.44=54.12 ms





RL	RF	lyzer -		AC								L CE	TA NOT		LCE				_		0.1	ICN		TO										-	E.C	1.1	6.0			16.1	
enter Fr	er Freq 433.920000 MHz								SENSE:PULSE ALIGNAUTO Trig Delay0.000 s Avg Type PNO: Fast Trig: Video FGain:Low Atten: 10 dB									05:01:16 PM Aug 26, 2024 <b>Type: Log-Pwr</b> TRACE 12 3 4 5 6 TYPE (WWWWWW DET (P. N.N.N.N.																							
dB/div	Ref	0.00	dBi	m																													Δ	M	lk	r1	4	14 1.	0. 3:	0 3 (	ł
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.0		<u> </u>	+++	╈	╉	++-	₩	+			+						+				H										+		┢					┢		TFIC	31
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 Flux Compliance Service Laboratory

 Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan

 Tel: 769-27280901
 Fax:769-27280901

 http://www.FCS-lab.com



#### 7 ANTENNA REQUIREMENT

#### 7.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

#### 7.2 EUT ANTENNA

The antennas used for this product are PCB antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmitter antenna is 0dBi.

\*\* \*\* \*\* \*\* END OF THE REPORT \*\* \*\* \*\* \*\*