

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

	FCC PART 15.231
Report Reference No FCC ID	CTA24052701201 2BAJM-Y-423A
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Date of issue:	May 31, 2024
Testing Laboratory Name::	Shenzhen CTA Testing Technology Co., Ltd.
Address:	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Commur Fuhai Street, Bao'an District, Shenzhen, China
Applicant's name:	Guangdong Ansiondarry Technology Co.,Ltd.
Address:	Room 301, Building 1, No. 7, Yanqian 2ndRoad, Houjie Town, Dongguan City, Guangdong Province, China
Test specification:	TESTIN
Standard	FCC Part 15.231
Shenzhen CTA Testing Technology	
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Page 2 of 22 Report No.: CTA24052701201 TEST REPORT Equipment under Test telecontroller Model /Type Y-423A N/A Listed Models ÷ Applicant Guangdong Ansiondarry Technology Co.,Ltd. Room 301, Building 1, No. 7, Yanqian 2ndRoad, Houjie Town, Address Dongguan City, Guangdong Province, China Manufacturer Guangdong Ansiondarry Technology Co.,Ltd. 5 Room 301, Building 1, No. 7, Yangian 2ndRoad, Houjie Town, Address 2 Dongguan City, Guangdong Province, China Test Result: PASS The test report merely corresponds to the test sample. CTATE It is not permitted to copy extracts of these test result without the written permission of the test laboratory. CTATESTING

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1 <u>TEST STANDARDS</u>

The tests were performed according to following standards:

FCC Rules Part 15.231: Periodic operation in the band 40.66-40.70 MHz and above 70 MHz. ANSI C63.10:2013 : American National Standard for Testing Unlicensed Wireless Devices

SUMMARY 2

2.1 General Remarks

2.1 General Remarks		
Date of receipt of test sample	:	May 25, 2024
Testing commenced on		May 25, 2024
Testing concluded on	:	May 31, 2024

2.2 Product Description

Testing concluded on	Image: May 31, 2024	
2.2 Product Description	GIA C'	
Product Name:	telecontroller	
Model/Type reference:	Y-423A	
Power supply:	DC 3.0V From battery	
Testing sample ID:	CTA240527012-1# (Engineer sample), CTA240527012-2#(Normal sample)	
Modulation:	ASK	
Operation frequency:	433.99MHz	
Channel number:	1	
Antenna type:	Internal antenna	
Antenna gain:	0.92 dBi	

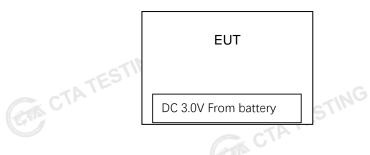
2.3 Equipment Under	Test		
Power supply system u	utilised		
Power supply voltage	: O 230V / 50 Hz	O 120V / 60Hz	
	0 12 V DC	O 24 V DC	

CTATESTING Short description of the Equipment under Test (EUT) CTATESTING

This is a WiFi cameras.

For more details, refer to the user's manual of the EUT.

Block Diagram of Test Setup 2.5



2.6 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

1	ESTINC	
	CTAT	

2.7 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for the device filing to comply with Section 15.231 of the FCC Part 15, Subpart C Rules.

2.8 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

Industry Canada Registration Number. Is: 27890 CAB identifier: CN0127

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

GTA CTATESTING During the measurement the environmental conditions were within the listed ranges:

Radiated Emission:

Temperature:	25 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

	Atmospheric pressure:	950-1050mbar	
	ING		
CTATE C	conducted testing:	3	
	Temperature:	25 ° C	
	CTA IL		
	Humidity:	44 %	
	Atmospheric pressure:	950-1050mbar	

Summary of measurement results 3.4

FCC and IC Requirements		
FCC Part 15.207	Conducted Emission	N/A
FCC Part 15.231(a)(2)	Automatically Deactivate	PASS
FCC Part 15.231(b)	Electric Field Strength of Fundamental Emission	PASS
FCC Part 15.205 &15.209& 15.231(b)	Electric Field Strength of Spurious Emission	PASS
FCC Part 15.231(c)	-20dB bandwidth	PASS
Demarky The magazyrament upgertainty is	not included in the test result	

Remark: The measurement uncertainty is not included in the test result.

3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	1	0.57 dB	(1)
Spectrum bandwidth	1	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Equipments Used during the Test 3.6

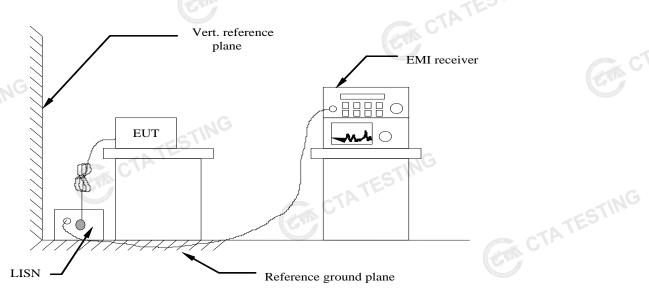
6 Equipments	Used during the	e lest			ATESTING
Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
LISN	G R&S	ENV216	CTA-308	2023/08/02	2024/08/01
LISN	R&S	ENV216	CTA-314	2023/08/02	2024/08/01
EMI Test Receiver	R&S	ESPI	CTA-307	2023/08/02	2024/08/01
EMI Test Receiver	R&S	ESCI	CTA-306	2023/08/02	2024/08/01
Spectrum Analyzer	Agilent	N9020A	CTA-301	2023/08/02	2024/08/01

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Spectrum An	alyzer	R&S	FSP	CTA-337	2023/08/02	2024/08/0
Vector Sig generato		Agilent	N5182A	CTA-305	2023/08/02	2024/08/0
Analog Sig Generate		R&S	SML03	CTA-304	2023/08/02	2024/08/0
WIDEBAND F COMMUNICA TESTEF	ATION	CMW500	R&S	CTA-302	2023/08/02	2024/08/0
Temperature humidity m		Chigo	ZG-7020	CTA-326	2023/08/02	2024/08/
Ultra-Broad Antenna		Schwarzbeck	VULB9163	CTA-310	2023/10/17	2024/10/
Horn Anter	nna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2024/10/1
Loop Ante	nna	Zhinan	ZN30900C	CTA-311	2023/10/17	2024/10/
Horn Anter	nna	Beijing Hangwei Dayang	OBH100400	CTA-336	2021/08/07	2024/08/0
Amplifie	r	Schwarzbeck	BBV 9745	CTA-312	2023/08/02	2024/08/
Amplifie	r	Taiwan chengyi	EMC051845B	CTA-313	2023/08/02	2024/08/
Directional co	oupler	NARDA	4226-10	CTA-303	2023/08/02	2024/08/
High-Pass I	Filter	SingBo	XBLBQ-GTA18	CTA-402	2023/08/02	2024/08/
High-Pass I	Filter	XingBo	XBLBQ-GTA27	CTA-403	2023/08/02	2024/08/
Automated bank	filter	Tonscend	JS0806-F	CTA-404	2023/08/02	2024/08/
Power Ser	isor	Agilent	U2021XA	CTA-405	2023/08/02	2024/08/
Amplifie	r	Schwarzbeck	BBV9719	CTA-406	2023/08/02	2024/08/
Test Equipr	nent	Manufacturer	Model No.	Version number	Calibration Date	Calibratic Due Dat
EMI Test Sol	itware	Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A
EMI Test Sof	itware	Tonscend	TS®JS32-CE	5.0.0.1	N/A	N/A
RF Test Soft	tware	Tonscend	TS®JS1120-3	3.1.65	N/A	N/A
RF Test Sof	tware	Tonscend	TS®JS1120	3.1.46	N/A	N/A

TEST CONDITIONS AND RESULTS 4

4.1 AC Power Conducted Emission

TEST CONFIGURATION



TESTING

TEST PROCEDURE

1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.

2 Support equipment, if needed, was placed as per ANSI C63.10-2013

3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013

4 The EUT received DC 12V power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.

5 All support equipments received AC power from a second LISN, if any.

6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT.The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.

7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes. 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

Frequency range (MHz)	Limit (dBuV)			
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		

The EUT is powered by Battery ,So this test item is not applicable for the EUT.

4.2 Radiated Emission

<u>Limit</u>

For intentional device, according to 15.209(a) the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table.

	Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)	
	0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)	
	0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)	
	1.705-30	3	20log(30)+ 40log(30/3)	30	TE
	30-88	3	40.0	100	J.M.
	88-216	3	43.5	150	
	216-960	3	46.0	200	
CTAIL	Above 960	3	54.0	500	
1	In addition to the provis	sions of 15.231(b), the fi	eld strength of emissions from intentional r	adiators operated	

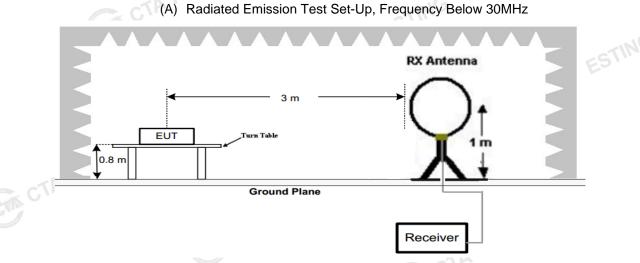
In addition to the provisions of 15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Funda- mental fre- quency (MHz)	Field strength of funda- mental (microvolts/ meter)	Field strength of spurious emissions (microvolts/meter)
40.66– 40.70.	2,250	225
70–130	1,250	125
130-174	¹ 1,250 to 3,750	¹ 125 to 375
174-260	3,750	375
260-470	¹ 3,750 to 12,500	¹ 375 to 1,250
Above 470	12,500	1,250

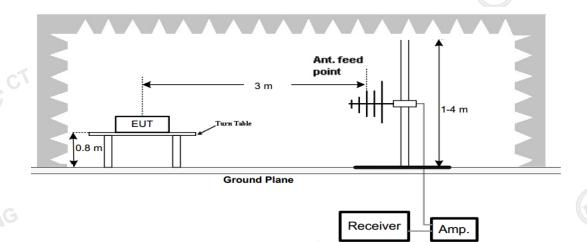
¹Linear interpolations.

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 260-470 MHz, 20*log(41.6667*433.910-7083.3333)=80.82dBuV/m The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

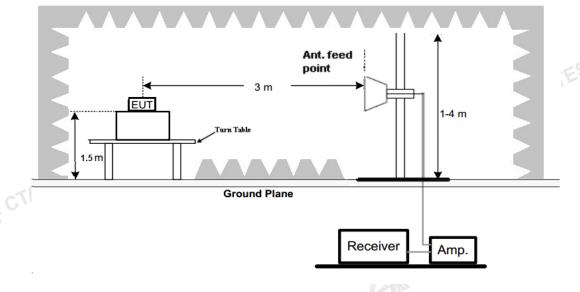
TEST CONFIGURATION



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

- 1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- And also, each emission was to be maximized by changing the polarization of receiving antenna both CTA TESTING 3. horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed. 4.
- 5. There were no emissions found below 30MHz within 20dB of the limit.

TEST RESULTS

The emissions from 30MHz to 5GHz are measured peak and average level, below 1 GHz measured QP level, detailed test data please see below. Besides, we tested 3 directions and recorded the worst data.

Note: We tested all Modes and recorded the worst case as follow. CTATES'

	Emission Styles	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	PK Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Direction (H/V)	
	Fundamental	433.990	85.80	-10.19	75.61	100.83	25.22	PK	н	
	Spurious	480.12	48.02	-12.49	35.53	46.00	10.47	PK	Н	
	Harmonics	867.980	59.63	-3.2	56.43	80.83	24.40	PK	Н	
	Harmonics	1301.970	58.97	-9.79	49.18	74.00	24.82	PK	Н	TE
						No. of Concession, Name			and the second s	CTATE
TES	Fundamental	433.990	84.68	-10.19	74.49	100.83	26.34	PK	V	
	Spurious	480.12	45.68	-12.49	33.19	46.00	12.81	PK	V	
CTATES	Harmonics	867.980	59.63	-3.2	56.43	80.83	24.40	PK	V	
	Harmonics	1301.970	58.97	-9.79	49.18	74.00	24.82	PK	V	
		C V				STINC				
				G	CTAT				TESTING	3

		I		- 163.			
				(A)			
Emission Styles	Frequency (MHz)	PK Level (dBuV/m)	AV Factor (dB/m)	AV Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Direction (H/V)
Fundamental	433.990	75.61	-8.74	66.87	80.83	13.96	Н
Harmonics	867.980	56.43	-8.74	47.69	60.83	13.14	Н
Harmonics	1301.970	49.18	-8.74	40.44	54.00	13.56	Н
		TA TA				ING	
Fundamental	433.990	74.49	-8.74	65.75	80.83	15.08	V
Harmonics	867.980	54.86	-8.74	46.12	60.83	14.71	V
Harmonics	1301.970	49.72	-8.74	40.98	54.00	13.02	V
-							

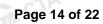
Note:

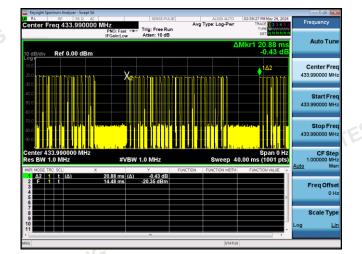
--: The other emission levels were very low against the limit.

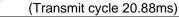
- 1. Level (dBuV/m)= Reading (dBuV)+Factor(dB/m)
- 2. AV Level (dBuV/m)= PK Level (dBuV/m)+ AV Factor(dB)

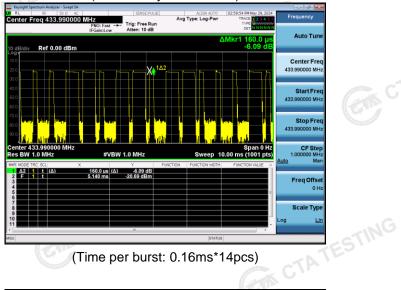
3. In a transmit cycle 100ms period found burst 25pcs, the Duty Cycle can calculate as below: CTA TESTING Duty Cycle= (0.16*14+0.49*11)/20.88=7.63/20.88=0.3654 AV Factor=20*log(Duty Cycle)=20*log(0.3654)=-8.74

(The plot of Duty Cycle See the follow page)

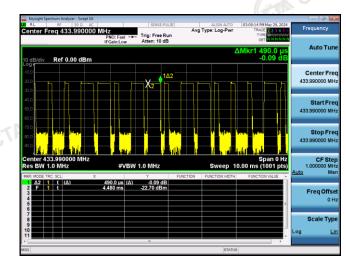








(Time per burst: 0.16ms*14pcs)



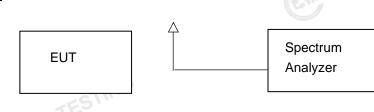
(Time per burst: 0.49ms*11pcs)

4.3 20dB Bandwidth

Limit

According to 47 CFR 15.231(c) The bandwidth of the emission shall be no wider than 0.25% of the centre frequency for devices operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20dB down from the modulated carrier.

Test Configuration



CTATESTING **Test Procedure**

The 20dB bandwidth and 99% bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

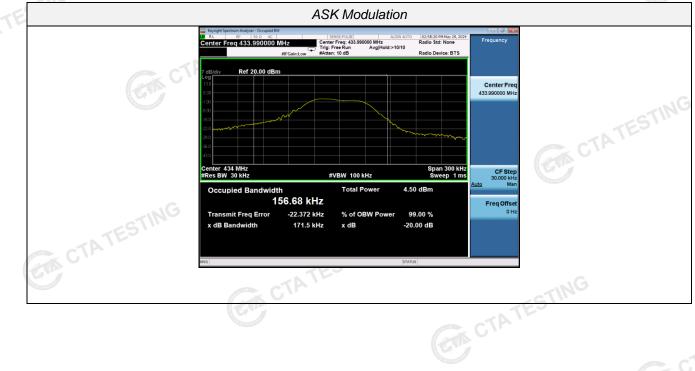
The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

The occupied bandwidth (OBW), that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Test Results

Test Results			TESTING			
Modulation	Channel Frequency (MHz)	99% OBW (KHz)	20dB bandwidth (KHz)	Limit (KHz)	Result	T
ASK	433.99	101.52	111.0	0.25%*433.99*1000=1084975	Pass	YA'

Test plot as follows:

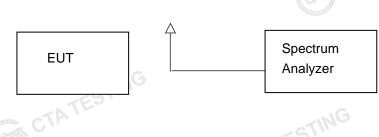


Deactivation Time 4.4

Limit

According to FCC § 15. 231 (a) (2), A transmitter activated automatically shall cease transmission within CTA TESTING 5 seconds after activation.

Test Configuration



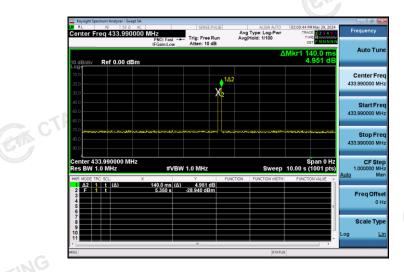
CTATESTING **Test Procedure**

- The EUT was placed on a wooded table which is 0.8m height and close to receiver antenna of spectrum 1. analyzer.
- 2. The spectrum analyzer resolution bandwidth was set to 1 MHz and video bandwidth was set to 1 MHz to encompass all significant spectral components during the test. The spectrum analyzer was operated in linear scale and zero span mode after tuning to the transmitter carrier frequency.

TEST RESULTS

Note: The transmitter was automatically activated, and the carrier frequency 433.99MHz:

Frequency (MHz)	One transmission time (S)	Limit(S)	Result	
433.99	0.140	5	Pass	
		CTA C		
	Knydy Speton Autore: Snyt 5A Strict PLAS 18 87 50 aC Strict PLAS Center Freq 433.990000 MP2; IFGaint.cow Trig: Free Run Atten: 10 dB Trig: Free Run Atten: 10 dB 10 dB/div Ref 0.00 dBm Trig: Strict PLAS Trig: Strict PLAS	ALIGN AUTO (2500-44 PMMay 20, 2004 Avg Type: Log-Pwr Trace P 2 4 5 4 Avg Heid: 11/50 Trace P 2 4 5 4 Control P 2 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4		



4.5 Antenna Requirement

Standard Applicable

According to FCC Part 15C 15.203

- An intentional radiator shall be de-signed to ensure that no antenna other than that furnished by the a) responsible party shall be used with the device.
- The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use b) of a standard antenna jack or electrical connector is prohibited.

CTATESTING Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

CTATESTING The antenna used in this product is a Spring Antenna, The directional gains of antenna used for transmitting is 0.92 dBi.

Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Shenzhen CTA Testing Technology Co., Ltd. does not assume any responsibility. CTATES

Test Setup Photos of the EUT 5



Photos of the EUT 6 CTATES





IAI



