

Shenzhen CTA Testing Technology Co., Ltd.

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

CTATE

TEST REPORT FCC Rules and Regulations Part PART 15.249

Report Reference No...... CTA24101900501

FCC ID...... 2BMQE-SC24A01-1

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Date of issue Oct. 22, 2024

Testing Laboratory Name...... Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,

..... Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name...... Shantou Suye Toys Co., Ltd.

No.18, Lianxin 1 Road, Lianxia Town, ChenghaiDistrict, Shantou City,

Guangdong, China

Standard FCC Rules and Regulations Part PART 15.249

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Test item description Collapsible aircraft

Trade Mark N/A

Manufacturer Shantou Suye Toys Co., Ltd.

Model/Type reference SC24A01-1

NO.2288-11, NO.2288-12, NO.2288-23, NO.2288-85, SC24B05-1,

SC24A05-1, SC24A13-1, BQ999-71, BQ1613-1A, 36906, 36906p, 36907,

CTATESTI

36903, 36903p, 36813D, 36827D

Modulation GFSK

Frequency 2406-2454MHz

Ratings DC 3.0V From Battery

Result PASS

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TEST REPORT

Equipment under Test : Collapsible aircraft

Model /Type SC24A01-1

Listed Models

: NO.2288-11, NO.2288-12, NO.2288-23, NO.2288-85, SC24B05-1,

SC24A05-1, SC24A13-1, BQ999-71, BQ1613-1A, 36906, 36906p, 36907,

36907p, 36904, 36904P, 36905, 36900, 36900p, 36901, 36902, 36902p,

36903, 36903p, 36813D, 36827D

Shantou Suye Toys Co., Ltd. **Applicant**

Address : No.18, Lianxin 1 Road, Lianxia Town, ChenghaiDistrict, Shantou City,

Guangdong, China

Shantou Suye Toys Co., Ltd. Manufacturer

No.18, Lianxin 1 Road, Lianxia Town, ChenghaiDistrict, Shantou City, Address

NG	Test Result:	PASS	C.J.
Address	Guangdong, China	CTA TESTING	a TE

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test CTATESTING laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.249: Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz. and 24.0 - 24.25 GHz.

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

ANSI C63.4: 2014: –American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz Range of 9 kHz to 40GHz

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2. SUMMARY

2.1. General Remarks

2.1. General Remarks			
Date of receipt of test sample	ALCO II	Oct. 16, 2024	CTING
			TES'
Testing commenced on		Oct. 16, 2024	CTA
			(34)
Testing concluded on	:	Oct. 22, 2024	

Trade Mark: Model/Type reference: Power Rating Sample ID: Operation frequency Modulation Antenna Type Antenna Gain	N/A SC24A01-1 DC 3.0V From Battery CTA241019005-1#(Engineer sample) CTA241019005-2#(Normal sample) 2406-2454MHz GFSK
Power Rating Sample ID: Operation frequency Modulation Antenna Type	DC 3.0V From Battery CTA241019005-1#(Engineer sample) CTA241019005-2#(Normal sample) 2406-2454MHz
Sample ID: Operation frequency Modulation Intenna Type	CTA241019005-1#(Engineer sample) CTA241019005-2#(Normal sample) 2406-2454MHz
Operation frequency Modulation Intenna Type	CTA241019005-2#(Normal sample) 2406-2454MHz
Modulation Intenna Type	
Intenna Type	GFSK
CVIII	
ntenna Gain	PCB antenna
	0.65 dBi
2.3. Equipment Under Test	CTA CTA TESTING
Power supply system utilised	CIN CIN

2.3. Equipment Under Test

Power supply system utilised

Power supply system utilised					S.M.	
Power supply voltage	:	0	230V / 50 Hz	0	120V / 60Hz	C
LING		0	12 V DC	0	24 V DC	
5///		•	Other (specified in blank b	below)	

DC 3.0V From Battery

2.4. Short description of the Equipment under Test (EUT)

This is a Collapsible aircraft

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

2.5. EUT operation mode

The Applicant use Key to control the EUT for staying in continuous transmitting and receiving mode for testing .There is 4 channels provided to the EUT. Channel Low, Mid and High was selected to test.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2406	3	2438
2	2422	4	2454
Test frequency:	6.	CTAT	
Channel	Frequency (MHz)	CAN S	
Low	2406	To eat the	

Channel	Frequency (MHz)
Low	2406
Mid	2422

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High	2454

2.6. Block Diagram of Test Setup

EUT

DC 3.0V From Battery

2.7. 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, Baoʻan 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

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

Radiated Emission:

Temperature:	23 ° C
Humidity:	48 %
NG	
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing:

C Main Conducted testing:		
Temperature:	24 ° C	16
C		GTING
Humidity:	45 %	TES.
(1) (2) (2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Str. 110	
Atmospheric pressure:	950-1050mbar	

Conducted testing:

Temperature:	24 ° C
Humidity:	45 %
ESTIN	
Atmospheric pressure:	950-1050mbar
	CTATESTING

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3.4. Summary of measurement results

FCC PART 15.249				
FCC Part 15.249(a) Field Strength of Fundamental		PASS		
FCC Part 15.209	Spurious Emission	PASS		
FCC Part 15.209	Band edge	PASS		
FCC Part 15.215(c)	20dB bandwidth	PASS		
FCC Part 15.207	Conducted Emission	N/A		
FCC Part 15.203	Antenna Requirement	PASS		

3.5. Statement of the measurement uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz) = 3.08dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz) = 4.42dB, k=2
Radiated emission expanded uncertainty(Above 1GHz) = 4.06dB, k=2

3.6. Equipments Used during the Test

	Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
	LISN	R&S	ENV216	CTA-308	2024/08/03	2025/08/02
	LISN	R&S	ENV216	CTA-314	2024/08/03	2025/08/02
	EMI Test Receiver	R&S	ESPI	CTA-307	2024/08/03	2025/08/02
	EMI Test Receiver	R&S	ESCI	CTA-306	2024/08/03	2025/08/02
CTATE	Spectrum Analyzer	Agilent	N9020A	CTA-301	2024/08/03	2025/08/02
ì	Spectrum Analyzer	R&S	FSU	CTA-337	2024/08/03	2025/08/02
	Vector Signal generator	Agilent	N5182A	CTA-305	2024/08/03	2025/08/02
	Analog Signal Generator	R&S	SML03	CTA-304	2024/08/03	2025/08/02
,G	WIDEBAND RADIO COMMUNICATION TESTER	CMW500	R&S	CTA-302	2024/08/03	2025/08/02
	Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2024/08/03	2025/08/02
	Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2026/10/16
	Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2026/10/12
	Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2026/10/16
	Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2023/10/17	2026/10/16
	Amplifier	Schwarzbeck	BBV 9745	CTA-312	2024/08/03	2025/08/02
CTATES	TING			,		Car
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				VA 27	
Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2024/08/03	2025/08/02
Directional coupler	NARDA	4226-10	CTA-303	2024/08/03	2025/08/02
High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2024/08/03	2025/08/02
High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2024/08/03	2025/08/02
Automated filter bank	Tonscend	JS0806-F	CTA-404	2024/08/03	2025/08/02
Power Sensor	Agilent	U2021XA	CTA-405	2024/08/03	2025/08/02
Amplifier	Schwarzbeck	BBV9719	CTA-406	2024/08/03	2025/08/02

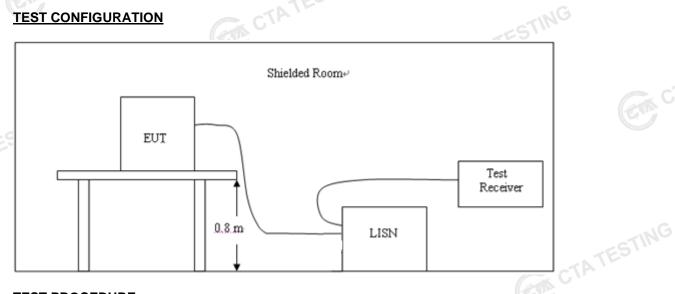
Test Equipment	Manufacturer	Model No. Version number		Calibration Date	Calibration Due Date
EMI Test Software	Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A
EMI Test Software	Tonscend	TS®JS32-CE	5.0.0.1	N/A	N/A
RF Test Software	Tonscend	end TS®JS1120-3		N/A	N/A
RF Test Software	Tonscend	TS®JS1120	3.1.46	N/A	N/A
CTATESTIN		GTING			

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4. TEST CONDITIONS AND RESULTS

4.1. AC Power Conducted Emission

TEST CONFIGURATION



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.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received 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.

AC Power Conducted Emission Limit

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

Eroguenov renge (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			
* Decreases with the logarithm of the frequency	uency.				

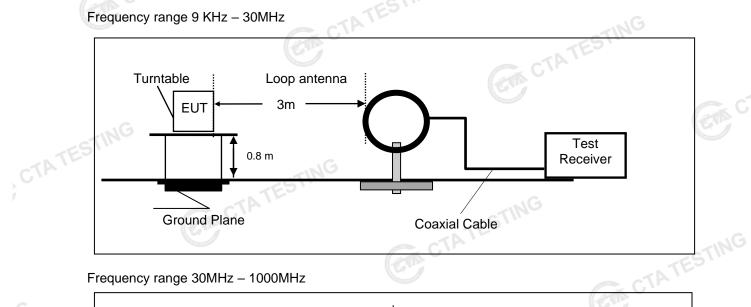
TEST RESULTS

The EUT is powered by Battery, so this test item is not applicable for the EUT. CTATESTING Report No.: CTA24101900501 Page 11 of 25

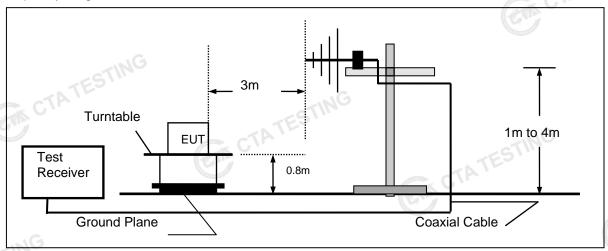
4.2. Radiated Emission and Band Edges

TEST CONFIGURATION

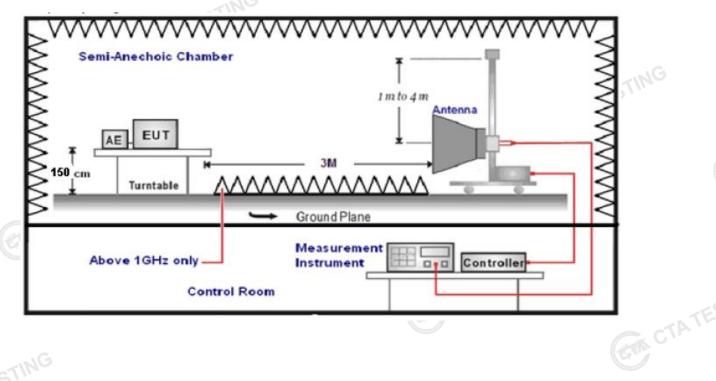
Frequency range 9 KHz - 30MHz



Frequency range 30MHz - 1000MHz



Frequency range above 1GHz-25GHz



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TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz -25GHz.
- 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.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed.
- The EUT minimum operation frequency was 26MHz and maximum operation frequency was 1910MHz.so radiated emission test frequency band from 9KHz to 25GHz.
- 6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance	
9KHz-30MHz	Active Loop Antenna	3	
30MHz-1GHz	Ultra-Broadband Antenna	3	(Anna)
1GHz-18GHz	Double Ridged Horn Antenna	3	
18GHz-25GHz	Horn Anternna	1	

Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	Carl C

Transd=AF +CL-AG

RADIATION LIMIT

According 15.249, the field strength of emissions from intentional radiators operated within 2400MHz-2483.5 MHz shall not exceed 94dBµV/m (50mV/m):

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply CTATE with the radiated emission limits specified in §15.209(a)

Radiated emission limits

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	
30-88	3	40.0	100	
88-216	3 (1)	43.5	150	
216-960	3	46.0	200	
Above 960	3	54.0	500	
TEST RESULTS Remark:			CIN C	TATI

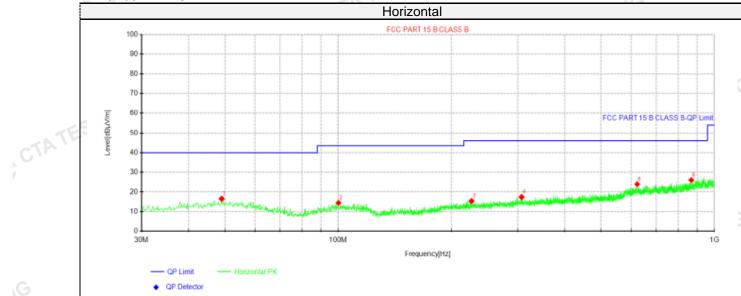
Remark: CTATESTING

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- This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
- 2. Both modes of GFSK were tested at Low, Middle, and High channel and recorded worst mode at GFSK
- Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

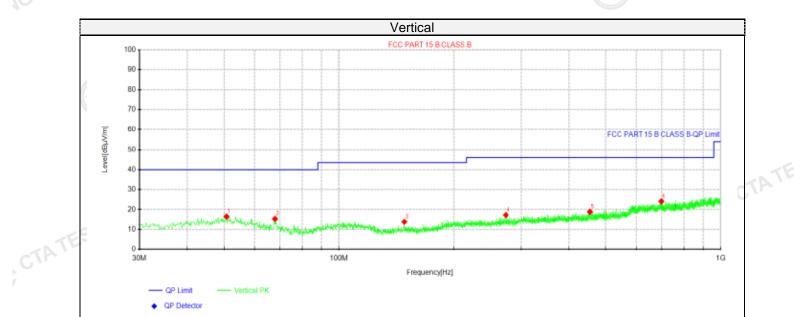
For 30MHz-1GHz



Suspected Data List											
NO	,	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Polarity	
		[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	1 Glarity	
1		49.0362	27.79	16.59	-11.20	40.00	23.41	100	195	Horizontal	
2	2	100.203	27.39	14.45	-12.94	43.50	29.05	100	360	Horizontal	
3	}	226.182	27.90	15.45	-12.45	46.00	30.55	100	360	Horizontal	
4	-	307.056	28.32	17.44	-10.88	46.00	28.56	100	207	Horizontal	
5	,	623.518	29.56	23.85	-5.71	46.00	22.15	100	230	Horizontal	
6	;	868.443	29.52	26.04	-3.48	46.00	19.96	100	171	Horizontal	
Note:1).Level (dBμV/m)= Reading (dBμV)+ Factor (dB/m) 2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB) 3). Margin(dB) = Limit (dBμV/m) - Level (dBμV/m)									CZ		
). Ma	argi	in(dB) = L	imit (dBµV/n	n) - Level (d	dBµV/m)					To a second seco	

3). Margin(dB) = Limit (dB μ V/m) - Level (dB μ V/m) CTA TESTING

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Susp	Suspected Data List										
NO.	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Dolority		
NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	50.7338	27.69	16.49	-11.20	40.00	23.51	100	220	Vertical		
2	67.9512	29.75	15.37	-14.38	40.00	24.63	100	196	Vertical		
3	148.34	29.28	13.83	-15.45	43.50	29.67	100	148	Vertical		
4	273.591	28.80	17.25	-11.55	46.00	28.75	100	32	Vertical		
5	454.253	28.61	18.87	-9.74	46.00	27.13	100	91	Vertical		
6	698.451	29.19	23.99	-5.20	46.00	22.01	100	44	Vertical		

Note:1).Level (dB μ V/m)= Reading (dB μ V)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dB μ V/m) - Level (dB μ V/m)

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For 1GHz to 25GHz

GFSK

Frequency(MHz):			2406		Polarity:		HORIZONTAL		
Frequency (MHz)		sion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2406.00	92.00	PK	114.00	22.00	103.28	27.47	3.43	42.18	-11.28
2406.00	78.32	AV	94.00	15.68	89.60	27.47	3.43	42.18	-11.28
4812.00	49.60	PK	74.00	24.40	53.88	32.33	5.12	41.73	-4.28
4812.00	41.12	AV	54.00	12.88	45.40	32.33	5.12	41.73	-4.28
7218.00	50.28	PK	74.00	23.72	50.81	36.6	6.49	43.62	-0.53
7218.00	36.44	AV	54.00	17.56	36.97	36.6	6.49	43.62	-0.53

-NG								-	
Frequency(MHz):			24	06	Polarity:		VERTICAL		
Frequency (MHz)	Emis Lev (dBu	/el	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2406.00	91.37	PK	114.00	22.63	102.65	27.47	3.43	42.18	-11.28
2406.00	77.23	AV	94.00	16.77	88.51	27.47	3.43	42.18	-11.28
4812.00	47.44	PK	74.00	26.56	51.72	32.33	5.12	41.73	-4.28
4812.00	38.91	AV	54.00	15.09	43.19	32.33	5.12	41.73	-4.28
7218.00	48.40	PK	74.00	25.60	48.93	36.6	6.49	43.62	-0.53
7218.00	34.43	AV	54.00	19.57	34.96	36.6	6.49	43.62	-0.53

Frequency(MHz):		2422		Polarity:		HORIZONTAL			
Frequency (MHz)	Emis Le (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2422.00	91.74	PK	114.00	22.26	103.01	27.49	3.44	42.2	-11.27
2422.00	79.47	AV	94.00	14.53	90.74	27.49	3.44	9 42.2	-11.27
4844.00	51.85	PK	74.00	22.15	56.01	32.43	5.19	41.78	-4.16
4844.00	46.14	AV	54.00	7.86	50.30	32.43	5.19	41.78	-4.16
7266.00	50.18	PK	74.00	23.82	50.51	36.65	6.63	43.61	-0.33
7266.00	39.25	ΑV	54.00	14.75	39.58	36.65	6.63	43.61	-0.33

	Frequency(MHz):			2422		Polarity:		VERTICAL		
CTA	Frequency (MHz)	Emis Lev (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
i	2422.00	90.01	PK	114.00	23.99	101.28	27.49	3.44	42.2	-11.27
	2422.00	77.87	AV	94.00	16.13	89.14	27.49	3.44	42.2	-11.27
	4844.00	50.33	PK	74.00	23.67	54.49	32.43	5.19	41.78	-4.16
	4844.00	43.65	AV	54.00	10.35	47.81	32.43	5.19	41.78	-4.16
	7266.00	47.77	PK	74.00	26.23	48.10	36.65	6.63	43.61	-0.33
	7266.00	38.32	AV	54.00	15.68	38.65	36.65	6.63	43.61	-0.33

R.V. A										
Freque	Frequency(MHz):			2454		Polarity:		HORIZONTAL		
Frequency (MHz)	Emis Le (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
2454.00	90.28	PK	114.00	23.72	101.52	27.57	3.44	42.25	-11.24	
2454.00	79.64	AV	94.00	14.36	90.88	27.57	3.44	42.25	-11.24	
4908.00	51.88	PK	74.00	22.12	55.77	32.83	5.13	3 41.85	-3.89	
4908.00	45.26	ΑV	54.00	8.74	49.15	32.83	5.13	41.85	-3.89	
7362.00	50.73	PK	74.00	23.27	51.11	36.87	6.5	43.75	-0.38	
7362.00	39.34	ΑV	54.00	14.66	39.72	36.87	6.5	43.75	-0.38	

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Freque	Frequency(MHz):		2454		Polarity:		VERTICAL		
Frequency (MHz)	Le	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2454.00	88.46	PK	114.00	25.54	99.70	27.57	3.44	42.25	-11.24
2454.00	77.87	AV	94.00	16.13	89.11	27.57	3.44	42.25	-11.24
4908.00	49.78	PK	74.00	24.22	53.67	32.83	5.13	41.85	-3.89
4908.00	43.10	AV	54.00	10.90	46.99	32.83	5.13	41.85	-3.89
7362.00	48.17	PK	74.00	25.83	48.55	36.87	6.5	43.75	-0.38
7362.00	37.36	AV	54.00	16.64	37.74	36.87	6.5	43.75	-0.38

REMARKS:

- Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m) Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier
- Margin value = Limit value- Emission level.
- -- Mean the PK detector measured value is below average limit.
- 5. The other emission levels were very low against the limit.

Results of Band Edges Test (Radiated)

5 Results of			els were very low (Radiated)	against the limit.					
Freque	ncy(MHz)	:	24	06	Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	62.00	PK	74	12.00	72.42	27.42	4.31	42.15	-10.42
2390.00	42.90	AV	54	11.10	53.32	27.42	4.31	42.15	-10.42
Freque	ncy(MHz)	:	24	06	Pola	arity:		VERTICAL	
Frequency (MHz)	Emis Le	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	60.04	PK	74	13.96	70.46	27.42	4.31	42.15	-10.42
2390.00	41.21	AV	54	12.79	51.63	27.42	4.31	42.15	-10.42
Freque	ncy(MHz)	:	2454		Pola	arity:	HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	61.29	PK	74	12.71	71.40	27.7	4.47	42.28	-10.11
2483.50	42.37	ΑV	54	11.63	52.48	27.7	4.47	42.28	-10.11
Freque	ncy(MHz)	:	24	54	Polarity:		VERTICAL		
Frequency (MHz)	Emis Le (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	59.06	PK	74	14.94	69.17	27.7	4.47	42.28	-10.11
2483.50	40.75	AV	54	13.25	50.86	27.7	4.47	42.28	-10.11

Note:

- Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor. 1)
- Margin value = Limits-Emission level.
- -- Mean the PK detector measured value is below average limit.
- 4) The other emission levels were very low against the limit.
- RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV CTATES' value.

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4.3. 20dB Bandwidth Measurement

TEST CONFIGURATION

EUT	TESTIN	spectrum
201	CTA CTA	analyzer

TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with colds.

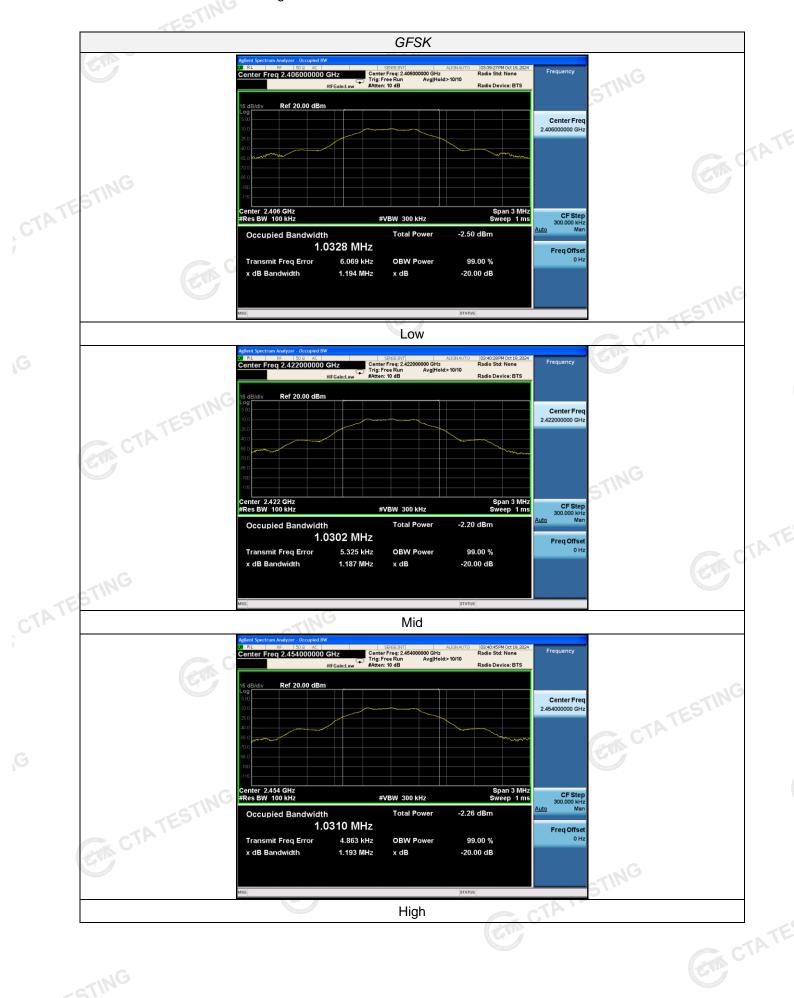
The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus CTATESTII 20dB.

LIMIT

TEST RESULTS

	N/A TEST RESULTS				CTATESTING
(G	Modulation	Channel	20dB bandwidth (MHz)	Result	
	GFSK	Low	1.194	PASS	
,	GFSK	Mid Mid	1.187	PASS	ING
	GFSK	High	1.193	PASS	GT CT
CTATE		CTATESTING	3	TING	_
			CTAT		

Note: 1.The test results including the cable lose.



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4.4. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than CTATE 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

The maximum gain of antenna was 0.65 dBi.

Remark:The antenna 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

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5. Test Setup Photos of the EUT





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6. Test Photos of the EUT







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