Shenzhen CTA Testing Technology Co., Ltd.



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

CTIN .	FCC PART 15.	.231
Report Reference		
	:: 2A49Z-RMRC2025	CTATE:
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Date of issue	Feb. 17, 2025	TESTINC
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Address	· · · · · · · · · · · · · · · · · · ·	1, Yibaolai Industrial Park, Qiaotou Commur District, Shenzhen, China
Applicant's name	Nanjing Arrowy Rad	cing Technology Co., Ltd.
Address	- 1 GA	Cuiping scientific innovation park, No. 37, angning District, Nanjing, China
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Report No.: CTA2502050110	01	Page 2 o	f 29
	TEST REPORT		
CTATESTING			
Equipment under Test	: RaceMaster		
Model /Type	: RMRC2025	CTATESTING	
Listed Models	: RMT2025		
STING			
	: The PCB board, circuit, structure and		
Model difference	are the same, Only model number an	d colour is different for	
CTA .	these model.		
Applicant	: Nanjing Arrowy Racing Technolog	Co. Itd	
Applicant		- 00., Elu.	
Address	: Room 3322, floor 3, Cuiping scientific Jiangjun Avenue, Jiangning District,		
Manufacturer	: Nanjing Arrowy Racing Technolog	v Co., Ltd.	
CIT	TESTINC		
Address	: Room 3322, floor 3, Cuiping scientific	innovation park No. 37	
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Address	Jiangjun Avenue, Jiangning District,		
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		CTA TESTING	

1 TEST STANDARDS

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

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Feb. 05, 2025
		0.
Testing commenced on		Feb. 05, 2025
	C DENEL	
Testing concluded on	:	Feb. 17, 2025

2.2 Product Description

Product Name:	RaceMaster
Model/Type reference:	RMRC2025
Power supply:	DC 10.8V From battery and DC 13.5V From external circuit
Adapter information:	Model: SW-13520 Input: AC 100-240V 50/60Hz Output: DC 13.5V 2A
Testing sample ID:	CTA250205011-1# (Engineer sample), CTA250205011-2#(Normal sample)
Modulation:	ASK
Operation frequency:	430.50MHz
Channel number:	1
Antenna type:	External antenna
Antenna gain:	2.0 dBi

2.3 Equipment Under Test

Power supply system utilised

Power supply system ut	ilised					
Power supply voltage	:	0	230V / 50 Hz	С) 120V / 60Hz	
<u>, , , , , , , , , , , , , , , , , , , </u>		0	12 V DC	С	24 V DC	
			Other (specified in bl	ank below	/)	

DC 10.8V From battery and DC 13.5V From external circuit

2.4 Short description of the Equipment under Test (EUT)

CIN

This is a RaceMaster.

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

2.5 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

ATE

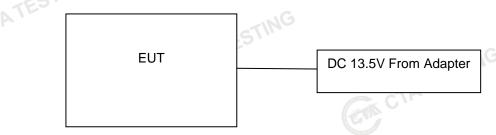
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CTA TESTING

- supplied by the manufacturer
- O supplied by the lab

Ο

Block Diagram of Test Setup 2.6



2.7 **Special Accessories**

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

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
	/	TES	. G	/	
	GAL		ESTINC		
2.8 Relat	ted Submitta	l(s) / Grant (s)	CTAIL		STING

Related Submittal(s) / Grant (s) 2.8

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.

2.9 **Modifications**

No modifications were implemented to meet testing criteria. CTATE CTA TESTING

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	
CTATES	Conducted testing:	3	
	Temperature:	25 ° C	
	TA IL		
	Humidity:	44 %	
	G		
	Atmospheric pressure:	950-1050mbar 🕓	

Summary of measurement results 3.4

FCC and IC Requirements		
FCC Part 15.207	Conducted Emission	PASS
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
Demorty The measurement uncertainty is	not included in the test result	

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

TATESTING

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		0.57 dB	(1)
Spectrum bandwidth		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 Test		CTATESTING		
Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date	
LISN	G 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	
Spectrum Analyzer	Agilent	N9020A	CTA-301	2024/08/03	2025/08/02	

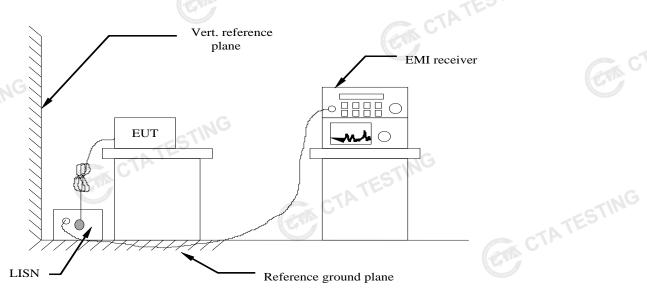
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_					Come State		
	Spectrum Analyzer	R&S	FSU	CTA-337	2024/08/03	2025/08/02	
	Vector Signal generator	Agilent	N5182A	CTA-305	2024/08/03	2025/08/02	
	Analog Signal Generator	R&S	SML03	CTA-304	2024/08/03	2025/08/02	
	WIDEBAND RADIO COMMUNICATION TESTER	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	ZF
	Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2026/10/16	
TE	Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2026/10/12	
P	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)
	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	G 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	
Г				Mansian	Coliberation	Calibration	TP
	Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date	
TE	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	TS®JS1120-3	3.1.65	N/A	N/A	
	RF Test Software	Tonscend	TS®JS1120	3.1.46	N/A	N/A	

TEST CONDITIONS AND RESULTS 4

ATESTING 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 C63.10-2013.

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

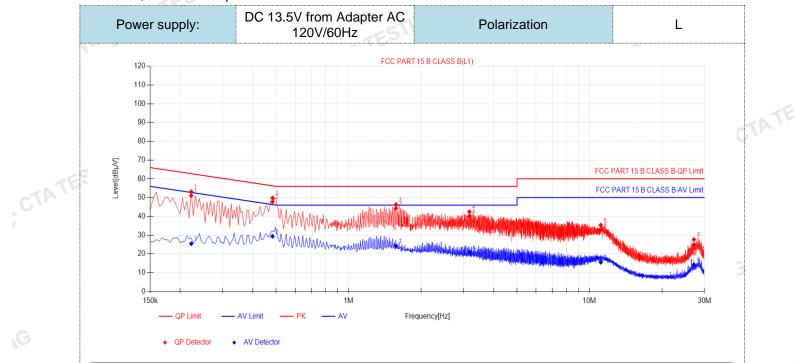
For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

	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	G 60	50
* Decreases with the logarithm of the	frequency.	
TEST RESULTS	GTA IL	TATESTING

TEST RESULTS

Remark:

1. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

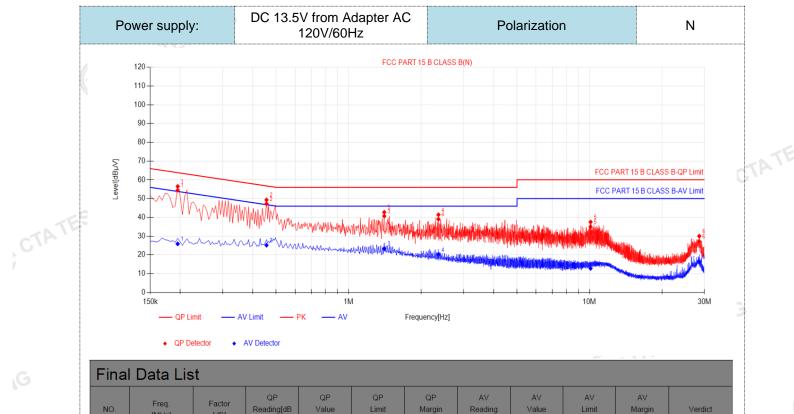


Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB µV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	A∨ Limit [dBµV]	A∨ Margin [dB]	Verdict	
1	0.222	10.03	41.03	51.06	62.74	11.68	15.43	25.46	52.74	27.28	PASS	
2	0.483	9.99	37.79	47.78	56.29	8.51	19.38	29.37	46.29	16.92	PASS	
3	1.572	9.90	34.40	44.30	56.00	11.70	14.31	24.21	46.00	21.79	PASS	
4	3.1695	10.00	30.14	40.14	56.00	15.86	10.90	20.90	46.00	25.10	PASS	
5	11.1345	10.26	22.52	32.78	60.00	27.22	5.28	15.54	50.00	34.46	PASS	
6	27.159	10.56	14.25	24.81	60.00	35.19	3.71	14.27	50.00	35.73	PASS	-
).QP Value tor (dB)=ir	· · /		•	• •						(cm)	

Note:1).QP Value (dBµV)= QP Reading (dBµV)+ Factor (dB) 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB) 3). QPMargin(dB) = QP Limit (dBµV) - QP Value (dBµV) 4). AVMargin(dB) = AV Limit (dBµV) - AV Value (dBµV)

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	NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	Q₽ Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	A∨ Reading [dBµV]	A∨ Value [dBµV]	A∨ Limit [dBµ∨]	AV Margin [dB]	Verdict	
	1	0.195	9.97	44.47	54.44	63.82	9.38	15.91	25.88	53.82	27.94	PASS	
	2	0.456	9.98	37.26	47.24	56.77	9.53	15.19	25.17	46.77	21.60	PASS	
	3	1.4055	10.15	30.52	40.67	56.00	15.33	13.24	23.39	46.00	22.61	PASS	
	4	2.3595	10.14	28.88	39.02	56.00	16.98	10.15	20.29	46.00	25.71	PASS	
	5	10.104	10.40	24.57	34.97	60.00	25.03	2.43	12.83	50.00	37.17	PASS	
	6	28.563	10.80	16.32	27.12	60.00	32.88	5.55	16.35	50.00	33.65	PASS	
2	2). Fac 3). QP).QP Value ctor (dB)=ir Margin(dB . AVMargir	nsertion I) = QP L	oss of Ll imit (dBµ	SN (dB) V) - QP	+ Cable Value (d	loss (dB BµV)		GW	-		GM	CTATE

4). AVMargin(dB) = AV Limit (dBμV) - AV Value (dBμV) CTATESTING

CTATES

4.2 Radiated Emission

Limit

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
	30-88	3	40.0	100
	88-216	3	43.5	150
CTATE	216-960	3.6	46.0	200
	Above 960	3	54.0	500
<i>V</i>	la addition to the provi	since of 15 001(b) the fi	ald strongth of emissions from intentional r	adiatara anaratad

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:

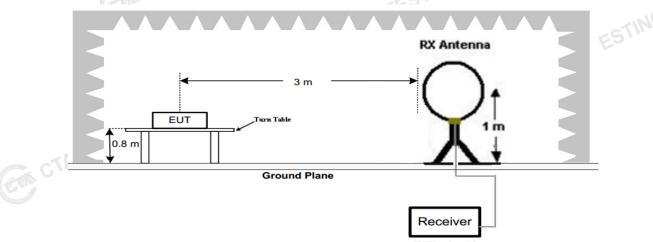
Funda- mental fre- quency (MHz)	Field strength of funda- mental (microvolts/ meter)	Field strength of spurious emissions (microvolts/meter)
40.66– 40.70.	2,250	225
70–130	1,250	125
130-174	¹ 1,250 to 3,750	1 125 to 375
174-260	3,750	375
260-470	¹ 3,750 to 12,500	¹ 375 to 1,250
Above 470	12,500	1,250

¹Linear interpolations.

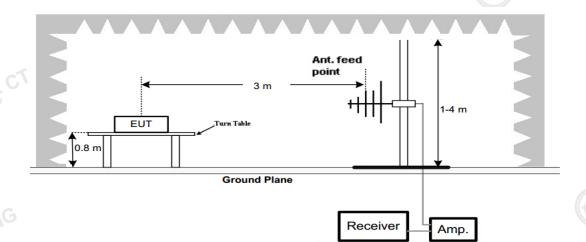
[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 260-470 MHz, 20*log(41.6667*430.500-7083.3333)=80.81dBuV/m The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

TEST CONFIGURATION

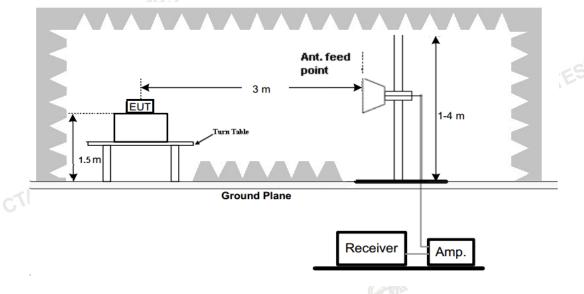
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



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



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



Test Procedure

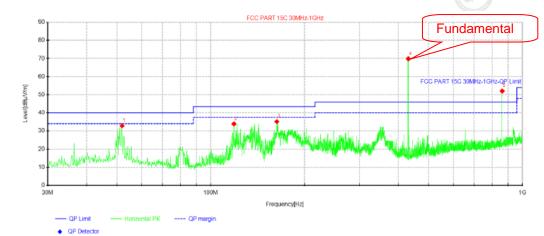
- 1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m 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.
- There were no emissions found below 30MHz within 20dB of the limit. 5.

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'

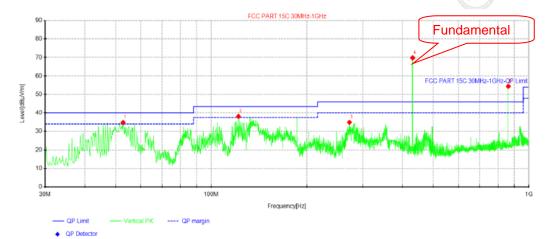
5



Suspe	ected Data	List							
NO	Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Delevity
NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	51.9462	44.14	32.84	-11.30	40.00	7.16	100	268	Horizontal
2	118.755	47.75	33.94	-13.81	43.50	9.56	100	279	Horizontal
3	163.011	50.73	35.20	-15.53	43.50	8.30	100	81	Horizontal
4	430.5	79.70	69.85	-9.85	46.00	-23.85	100	360	Horizontal
5	861	55.63	52.05	-3.58	46.00	-6.05	100	360	Horizontal

Emission Styles	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	PK Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Direction (H)
Fundamental	430.50	79.70	-9.85	69.85	100.81	30.96	PK	Н
Harmonics	861.00	55.63	-3.58	52.05	80.81	28.76	PK	Н
Harmonics	1291.50	65.43	-20.17	45.26	74.00	28.74	PK	Н
				· · ·	CTA CT			

г			1	Γ	(CTA	U	T	Γ
TES	Emission Styles	Frequency (MHz)	PK Level (dBuV/m)	AV Factor (dB/m)	AV Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Direction (H)
	Fundamental	430.50	69.85	-9.63	60.22	80.81	20.59	Н
	Harmonics	861.00	52.05	-9.63	42.42	60.81	18.39	Н
	Harmonics	1291.50	45.26	-9.63	35.63	54	18.37	Н



	_	
Suspected Data	Lis	st

						requerespiral					
E.C.			QP Limit Ve QP Detector	rtical PK QP m	argin						
CTATES	Suspe	ected Data	List								
		Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Delority	
7	NO.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
	1	52.795	46.25	34.88	-11.37	40.00	5.12	100	14	Vertical	
	2	121.786	52.68	38.09	-14.59	43.50	5.41	100	224	Vertical	3
	3	272.257	46.52	34.95	-11.57	46.00	11.05	100	165	Vertical	
	4	430.5	79.62	69.77	-9.85	46.00	-23.77	100	107	Vertical	
	5	861	57.96	54.38	-3.58	46.00	-8.38	100	165	Vertical	

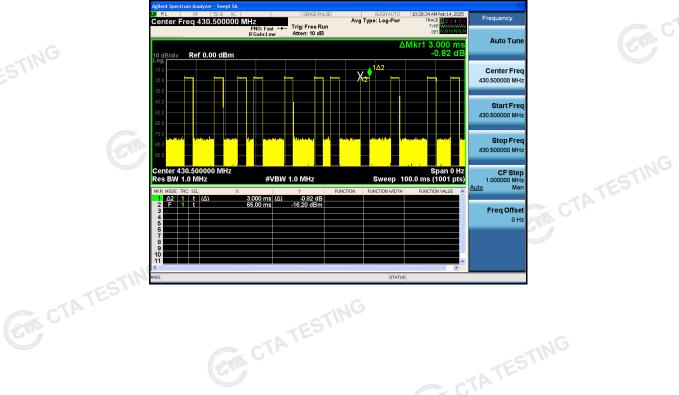
Emission	Frequency	•	Factor	PK Level	Limit	Margin	Detector	Direction
Styles	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		(V)
Fundamental	430.50	79.62	-9.85	69.77	100.81	31.04	PK	V
Harmonics	861.00	57.96	-3.58	54.38	80.81	26.43	PK	V
Harmonics	1291.50	69.41	-20.17	49.24	74.00	24.76	PK	V

	Harmonics	1291.50	69.41	-20.17	49.2	24 74.	00 24.76	PK	V	
CTATE										-7A
	Emission Styles	Frequen (MHz)	Level	AV Fa (dB/r	n)	AV Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Direction (V)	
	Fundamental	430.50	69.77	-9.6	3	60.14	80.81	20.67	V	
	Harmonics	861.00	54.38	-9.6	3	44.75	60.81	16.06	V	
	Harmonics	1291.5	0 49.24	-9.6	3	39.61	54.00	14.39	V	5
									TESTIN	

Note:

- --: The other emission levels were very low against the limit.
- Level (dBuV/m)= Reading (dBuV)+Factor(dB/m) 1.
- 2. AV Level (dBuV/m)= PK Level (dBuV/m)+ AV Factor(dB)
- 3. In a transmit cycle 100ms period found burst 11pcs, the Duty Cycle can calculate as below: Duty Cycle= (3.00*11)/100=33/100.28=0.3300 CTATE AV Factor=20*log(Duty Cycle)=20*log(0.3300)=-9.63

(The plot of Duty Cycle See the follow page)

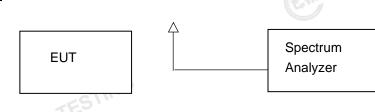


4.3 20dB Bandwidth

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

Modulation	Channel Frequency (MHz)		20dB bandwidth (KHz)	Limit (KHz)	Result	16
ASK	430.50	654.71	779.2	0.25%*430.50*1000=1076.25	Pass	YA''
Test plot as fo	llows:				GIN	-

Test plot as follows:

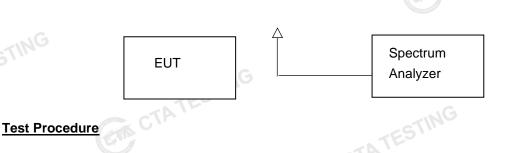


Deactivation Time 4.4

Limit

According to FCC §15.231(a)(2), A transmitter activated automatically shall cease transmission within 5 CTATEST seconds after activation.

Test Configuration



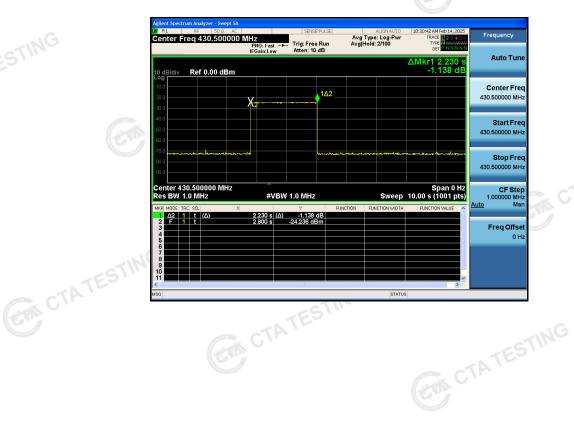
1. The EUT was placed on a wooded table which is 0.8m height and close to receiver antenna of spectrum analyzer.

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 430.50MHz:

Frequency (MHz)	One transmission time (S)	Limit(S)	Result	
430.50	2.230	5	Pass	
		GIA		
	lglient Spectrum Analyzer - Swept SA ■ RL RF 50 Q AC Senter Freq 430.5000000 MHz PNO: Fast → IFGainLow Trig: Free Run After: 10 dB	ALISNAUTO 10:30:42 AM Feb 14, 2025 Avg Type: Log-Pwr TRACE 22 4 5 Avg[Hold: 2/100 Type Research 14, 2025 Oct 2010 Type Research 14, 2025		



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 External Antenna, The directional gains of antenna used for transmitting is 2.0 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



6 <u>Photos of the EUT</u>

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