Shenzhen CTA Testing Technology Co., Ltd.

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

TEST REPORT
FCC Rules and Regulations Part PART 15.249

Report Reference No……..: **CTA25091501001**

FCC ID……..: **2A2MB-YT6621**

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Date of issue.....	Sep. 27, 2025
Testing Laboratory Name	**Shenzhen CTA Testing Technology Co., Ltd.**
Address.....	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
Applicant's name.....	**Shantou Yuetong Technology Co., Ltd**
Address.....	No.8, Lane 3, Meilong Road, Chenghai District, Shantou City, Guangdong Province, China
Standard	**FCC Rules and Regulations PART 15.249**

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Test item description	**Remote control car**
Trade Mark	N/A
Manufacturer	Shantou Yuetong Technology Co., Ltd
Model/Type reference.....	YT6621
Listed Models	Refer to page 2
Modulation	GFSK
Frequency.....	2402-2480MHz
Ratings.....	DC 3.0V From Battery
Result.....	**PASS**

TEST REPORT

Equipment under Test	:	Remote control car
Model /Type	:	YT6621
Listed Models	:	YT6602, YT6604, YT6620, YT6623, YT6626, YT6627, YT6628, YT6629, YT6630, YT6631, YT6632, YT6633, YT6634, YT6635, YT6636, YT6637, YT6638, YT6639, YT6651, YT6652, YT6653, Y76655, YT6656, YT6657, YT6658, YT6659, YT6660, YT6661, YT6662, YT6663, YT6665, YT6666, YT6667, YT6668, YT6669, 818, 819, 829, 839, 917, 918, 965, 967, 968, 969, R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, V1, V2, V3, Y1, Y2, Y3, 808, 809, 810, E58, E68, E88, E60, E61, E62, E63, 701, 702, 703, 705, 706, 707, 708, 709, 801, 802, 803, 804, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 815, 816, 818, 819, 829, 839, T11, T12, T13, 9930F, 9930F-1, D18, D19, D20, D21, D22, 9901, 9902, 9938,9 939, 9991, 9992, 9993, 9995, 9996, 9997, 9998, 9999, 917, 918, 919, 965, 967, 968, 928, 938, 983, 985, 3706-1A, 3706-2A, MD555A, MD574A, Z102, Z103, 16101, 16102, 16103, 18101, 18102, 18103
Model difference	:	The circuits, structures, and internal structures of these PCB boards are all the same, only model number and accessories are different for these models.
Applicant	:	**Shantou Yuetong Technology Co., Ltd**
Address	:	No.8, Lane 3, Meilong Road, Chenghai District, Shantou City, Guangdong Province, China
Manufacturer	:	**Shantou Yuetong Technology Co., Ltd**
Address	:	No.8, Lane 3, Meilong Road, Chenghai District, Shantou City, Guangdong Province, China

Test Result:	**PASS**

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 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 C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 : American National Standard for Testing Unlicensed Wireless Devices

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Sep. 15, 2025
Testing commenced on	:	Sep. 15, 2025
Testing concluded on	:	Sep. 27, 2025

2.2. Product Description

Name of EUT	Remote control car
Model Number	YT6621
Power Rating	DC 3.0V From Battery
Hardware version:	V1.0
Software version:	V1.0
Sample ID:	CTA250915010-1# (Engineer sample) CTA250915010-2# (Normal sample)
Operation frequency	2402-2480MHz
Modulation	GFSK
Antenna Type	Internal antenna
Antenna Gain	0.50 dBi

2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	○	230V / 50 Hz	○	120V / 60Hz
		○	12 V DC	○	24 V DC
		●	Other (specified in blank below)		

DC 3.0V From Battery

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

This is a Remote control car.

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:

● - supplied by the manufacturer
○ - supplied by the lab

2.6. EUT operation mode

The Applicant use Key to control the EUT for staying in continuous transmitting and receiving mode for testing .There is 40 channels provided to the EUT. Channel Low,Mid and High was selected to test.

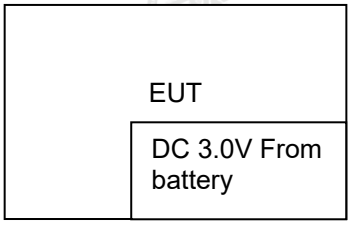
Operation Frequency：

Channel	Frequency (MHz)
00	**2402**
01	2404
02	2406
⋮	⋮
19	**2440**
⋮	⋮
37	2476
38	2478
39	**2480**

Test frequency:

Channel	Frequency (MHz)
Low	2402
Mid	2440
High	2480

2.7. Block Diagram of Test Setup



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

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

Radiated Emission:

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

AC Main Conducted testing：

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

Conducted testing：

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

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

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)
Time	/	±2%	(1)

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

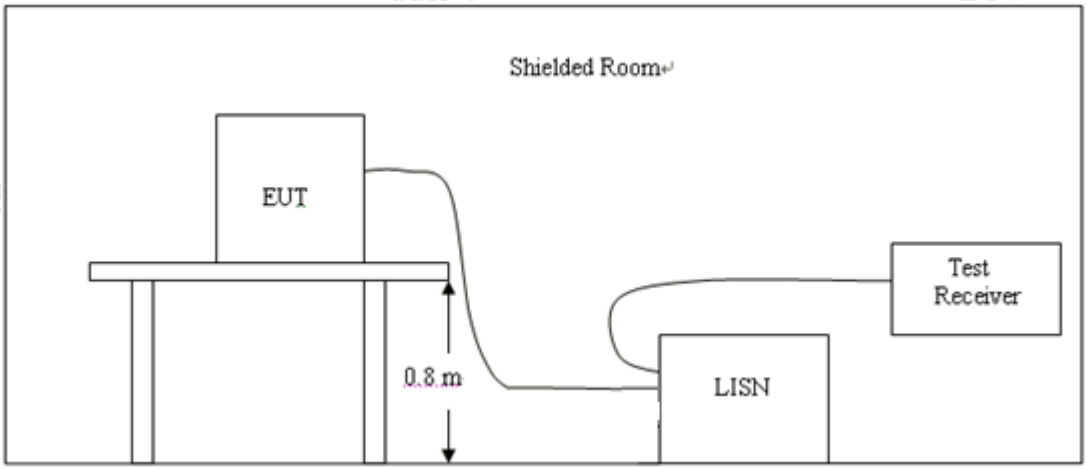
3.6. Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	CTA-308	2025/08/04	2026/08/03
LISN	R&S	ENV216	CTA-314	2025/07/30	2026/07/29
EMI Test Receiver	R&S	ESPI	CTA-307	2025/07/30	2026/07/29
EMI Test Receiver	R&S	ESCI	CTA-306	2025/07/30	2026/07/29
Spectrum Analyzer	Agilent	N9020A	CTA-301	2025/05/17	2026/05/16
Spectrum Analyzer	Agilent	N9020A	CTA-301	2025/07/30	2026/07/29
Vector Signal generator	Agilent	N5182A	CTA-305	2025/07/30	2026/07/29
Analog Signal Generator	R&S	E4421B	CTA-304	2025/07/30	2026/07/29
WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW500	CTA-302	2025/07/30	2026/07/29
Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2025/07/31	2026/07/30
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	Schwarzbeck	BBHA 9170	CTA-346	2025/05/18	2028/05/17
Amplifier	Schwarzbeck	BBV9745	CTA-312	2025/07/30	2026/07/29
Amplifier	Tonscend	TAP-011840	CTA-313	2025/07/30	2026/07/29
High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2025/07/30	2026/07/29
High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2025/07/30	2026/07/29
Automatic control unit	Tonscend	JS0806-2	CTA-351	2025/07/30	2026/07/29
Power Sensor	Agilent	U2021XA	CTA-405	2025/07/30	2026/07/29
Amplifier	SKET	LNPA 1840G-50	CTA-345	2025/05/17	2026/05/16
Spectrum analyzer	R&S	FSV40-N	CTA-344	2025/05/17	2026/05/16
Attenuator	XINQY	10dB	N/A	N/A	N/A
Programmable Constant Temperature And Humidity Test Chamber	DONGGUAN JINGYU	HT-H-408	CTA-053	2025/07/30	2026/07/29
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

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：

Frequency range (MHz)	Limit (dBuV)	
	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.		

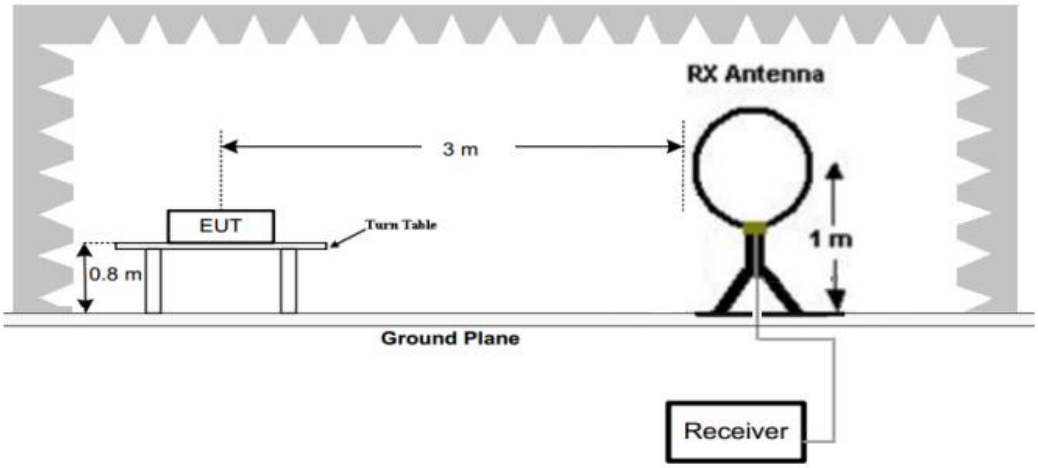
TEST RESULTS

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

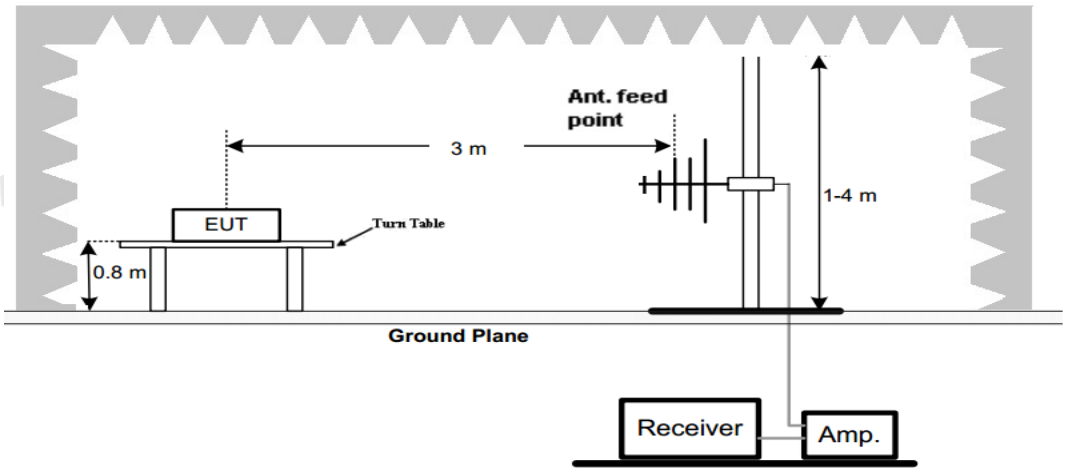
4.2. Radiated Emission and Band Edges

TEST CONFIGURATION

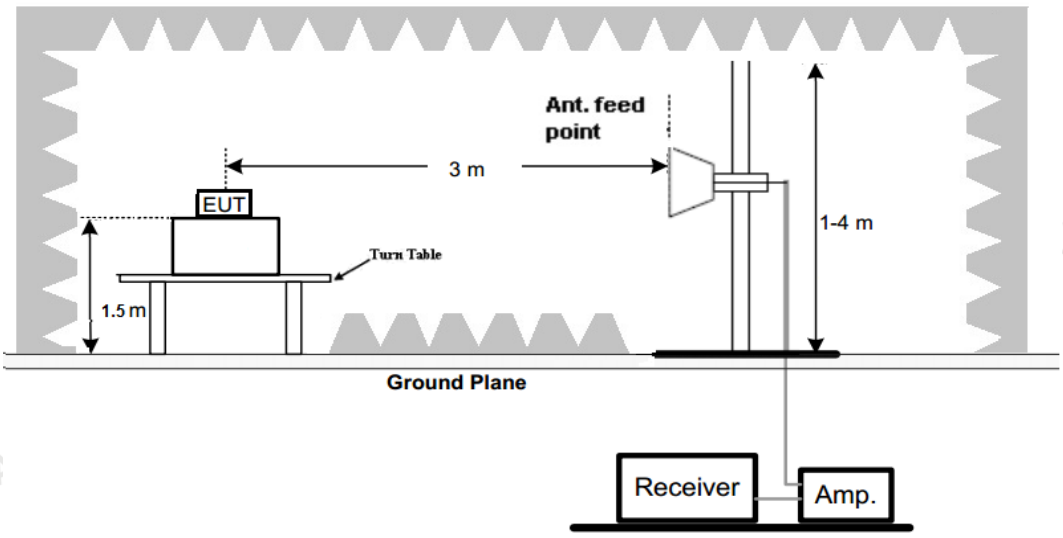
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz

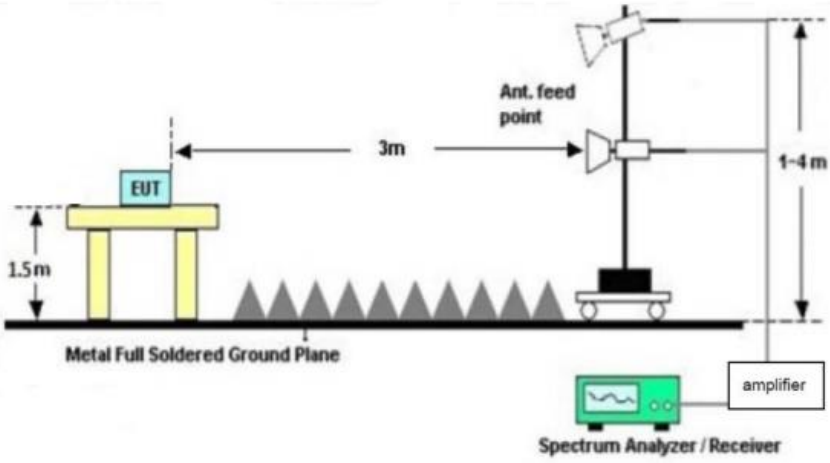


(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



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





TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0℃ to 360℃ 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.
4. Repeat above procedures until all frequency measurements have been completed.
5. 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
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. 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	

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 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	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

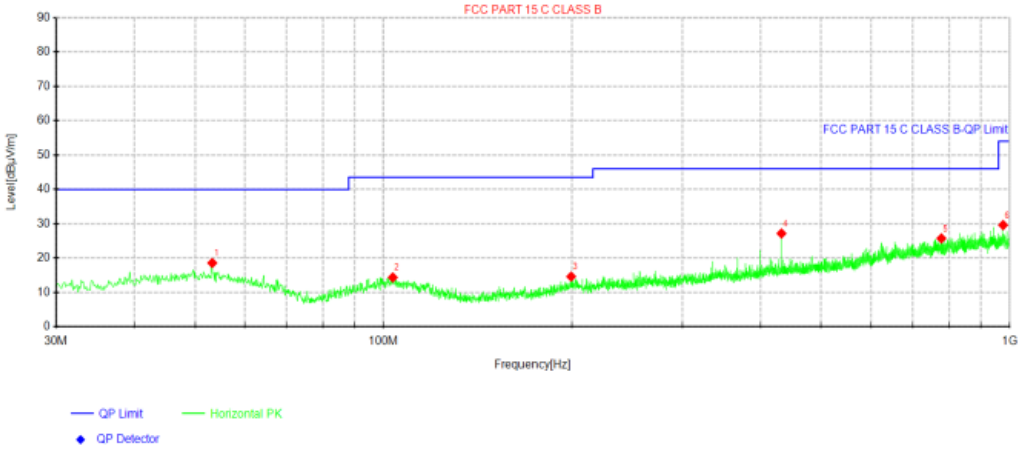
TEST RESULTS

Remark:

1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
2. GFSK were tested at Low, Middle, and High channel and recorded worst mode at the High channel.
3. 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

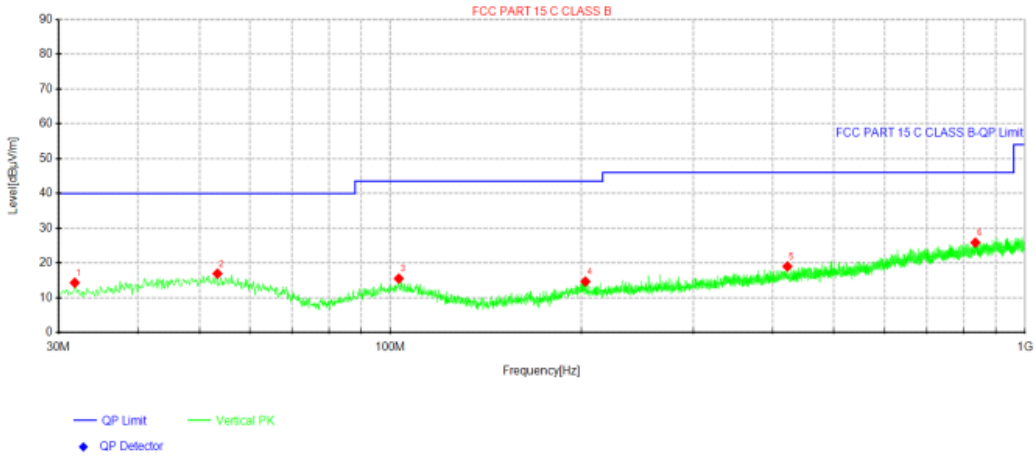
Horizontal



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	53.28	29.33	18.58	-10.75	40.00	21.42	100	259	Horizontal
2	103.477	26.85	14.36	-12.49	43.50	29.14	100	286	Horizontal
3	199.386	27.80	14.63	-13.17	43.50	28.87	200	204	Horizontal
4	432.065	36.62	27.18	-9.44	46.00	18.82	100	95	Horizontal
5	777.87	29.05	25.73	-3.32	46.00	20.27	200	142	Horizontal
6	975.992	30.92	29.62	-1.30	54.00	24.38	100	85	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)

Vertical



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.8188	28.28	14.32	-13.96	40.00	25.68	100	20	Vertical
2	53.4012	27.69	16.93	-10.76	40.00	23.07	100	75	Vertical
3	103.113	28.05	15.52	-12.53	43.50	27.98	200	11	Vertical
4	202.902	27.96	14.66	-13.30	43.50	28.84	100	66	Vertical
5	422.243	28.59	19.02	-9.57	46.00	26.98	200	176	Vertical
6	835.1	28.56	25.85	-2.71	46.00	20.15	100	176	Vertical

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)

For 1GHz to 25GHz

GFSK (above 1GHz)

Frequency(MHz):			2402		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)
2402.00	88.25	PK	114.00	25.75	99.53	27.47	3.43	42.18	-11.28
2402.00	80.77	AV	94.00	13.23	92.05	27.47	3.43	42.18	-11.28
4804.00	48.33	PK	74.00	25.67	52.60	32.33	5.12	41.72	-4.27
4804.00	39.95	AV	54.00	14.05	44.22	32.33	5.12	41.72	-4.27
7206.00	50.27	PK	74.00	23.73	50.79	36.6	6.49	43.61	-0.52
7206.00	38.19	AV	54.00	15.81	38.71	36.6	6.49	43.61	-0.52

Frequency(MHz):			2402		Polarity:		VERTICAL		
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)
2402.00	86.48	PK	114.00	27.52	97.76	27.47	3.43	42.18	-11.28
2402.00	78.96	AV	94.00	15.04	90.24	27.47	3.43	42.18	-11.28
4804.00	48.93	PK	74.00	25.07	53.20	32.33	5.12	41.72	-4.27
4804.00	40.53	AV	54.00	13.47	44.80	32.33	5.12	41.72	-4.27
7206.00	48.74	PK	74.00	25.26	49.26	36.6	6.49	43.61	-0.52
7206.00	35.52	AV	54.00	18.48	36.04	36.6	6.49	43.61	-0.52

Frequency(MHz):			2440		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)
2440.00	87.58	PK	114.00	26.42	98.83	27.52	3.45	42.22	-11.25
2440.00	80.26	AV	94.00	13.74	91.51	27.52	3.45	42.22	-11.25
4880.00	48.52	PK	74.00	25.48	52.40	32.6	5.34	41.82	-3.88
4880.00	40.52	AV	54.00	13.48	44.40	32.6	5.34	41.82	-3.88
7320.00	49.71	PK	74.00	24.29	49.82	36.8	6.81	43.72	-0.11
7320.00	38.22	AV	54.00	15.78	38.33	36.8	6.81	43.72	-0.11

Frequency(MHz):			2440		Polarity:		VERTICAL		
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)
2440.00	85.94	PK	114.00	28.06	97.19	27.52	3.45	42.22	-11.25
2440.00	78.93	AV	94.00	15.07	90.18	27.52	3.45	42.22	-11.25
4880.00	47.14	PK	74.00	26.86	51.02	32.6	5.34	41.82	-3.88
4880.00	38.72	AV	54.00	15.28	42.60	32.6	5.34	41.82	-3.88
7320.00	48.18	PK	74.00	25.82	48.29	36.8	6.81	43.72	-0.11
7320.00	36.84	AV	54.00	17.16	36.95	36.8	6.81	43.72	-0.11

Frequency(MHz):			2480		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)
2480.00	86.87	PK	114.00	27.13	96.98	27.7	4.47	42.28	-10.11
2480.00	81.36	AV	94.00	12.64	91.47	27.7	4.47	42.28	-10.11
4960.00	49.05	PK	74.00	24.95	52.13	32.73	5.66	41.47	-3.08
4960.00	41.16	AV	54.00	12.84	44.24	32.73	5.66	41.47	-3.08
7440.00	50.25	PK	74.00	23.75	49.80	37.04	7.25	43.84	0.45
7440.00	37.94	AV	54.00	16.06	37.49	37.04	7.25	43.84	0.45

Frequency(MHz):			2480		Polarity:		VERTICAL		
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)
2480.00	85.32	PK	114.00	28.68	95.43	27.7	4.47	42.28	-10.11
2480.00	77.28	AV	94.00	16.72	87.39	27.7	4.47	42.28	-10.11
4960.00	47.62	PK	74.00	26.38	50.70	32.73	5.66	41.47	-3.08
4960.00	38.65	AV	54.00	15.35	41.73	32.73	5.66	41.47	-3.08
7440.00	49.12	PK	74.00	24.88	48.67	37.04	7.25	43.84	0.45
7440.00	34.90	AV	54.00	19.10	34.45	37.04	7.25	43.84	0.45

REMARKS:
1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier
3. Margin value = Limit value- Emission level.
4. The other emission levels were very low against the limit.

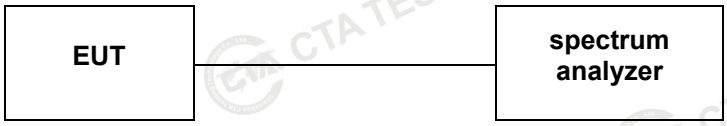
Results of Band Edges Test (Radiated)

Frequency(MHz):			2402		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	62.67	PK	74.00	11.33	73.09	27.42	4.31	42.15	-10.42
2390.00	44.41	AV	54.00	9.59	54.83	27.42	4.31	42.15	-10.42
2400.00	63.30	PK	74.00	10.70	73.73	27.43	4.31	42.17	-10.43
2400.00	49.17	AV	54.00	4.83	59.60	27.43	4.31	42.17	-10.43
Frequency(MHz):			**2402**		**Polarity:**		**VERTICAL**		
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	60.73	PK	74.00	13.27	71.15	27.42	4.31	42.15	-10.42
2390.00	41.95	AV	54.00	12.05	52.37	27.42	4.31	42.15	-10.42
2400.00	61.42	PK	74.00	12.58	71.85	27.43	4.31	42.17	-10.43
2400.00	47.22	AV	54.00	6.78	57.65	27.43	4.31	42.17	-10.43
Frequency(MHz):			**2480**		**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)
2483.50	62.13	PK	74.00	11.87	72.24	27.7	4.47	42.28	-10.11
2483.50	43.46	AV	54.00	10.54	53.57	27.7	4.47	42.28	-10.11
Frequency(MHz):			**2480**		**Polarity:**		**VERTICAL**		
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	60.21	PK	74.00	13.79	70.32	27.7	4.47	42.28	-10.11
2483.50	41.38	AV	54.00	12.62	51.49	27.7	4.47	42.28	-10.11

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

4.3. 20dB Bandwidth Measurement

TEST CONFIGURATION



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 30KHz RBW and 300KHz VBW.

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

LIMIT

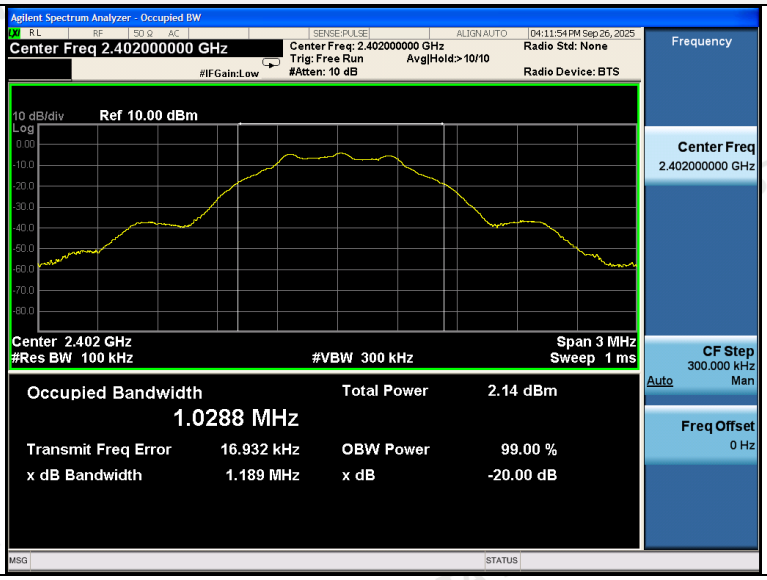
N/A

TEST RESULTS

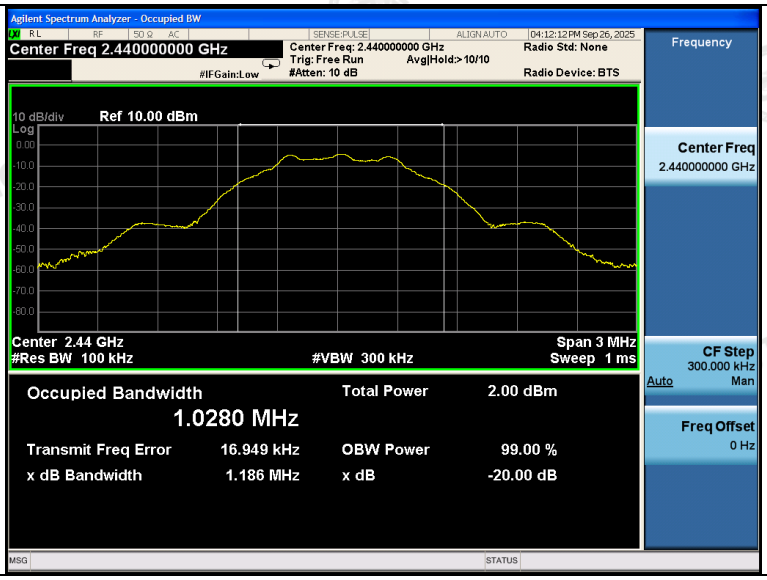
Modulation	Channel	20dB bandwidth (MHz)	Result
GFSK	Low	1.096	PASS
	Mid	1.098	
	High	1.092	

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

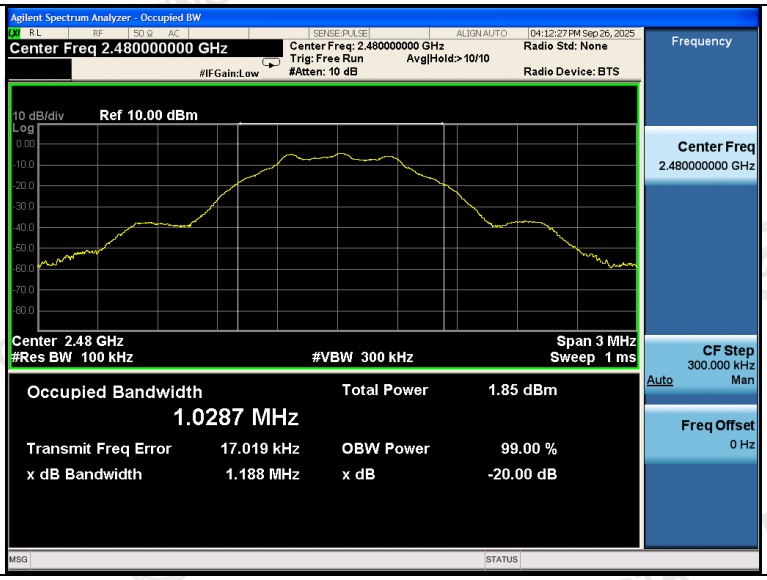
GFSK



Low



Mid



High

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 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

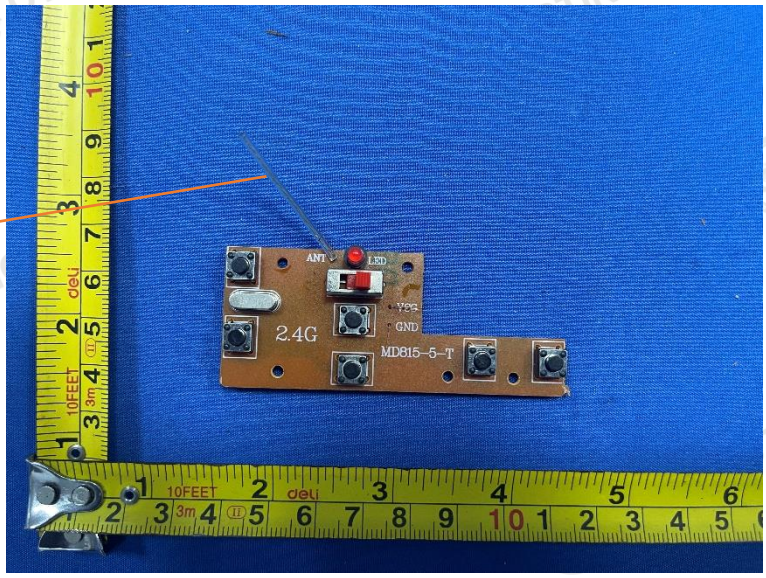
Antenna Information

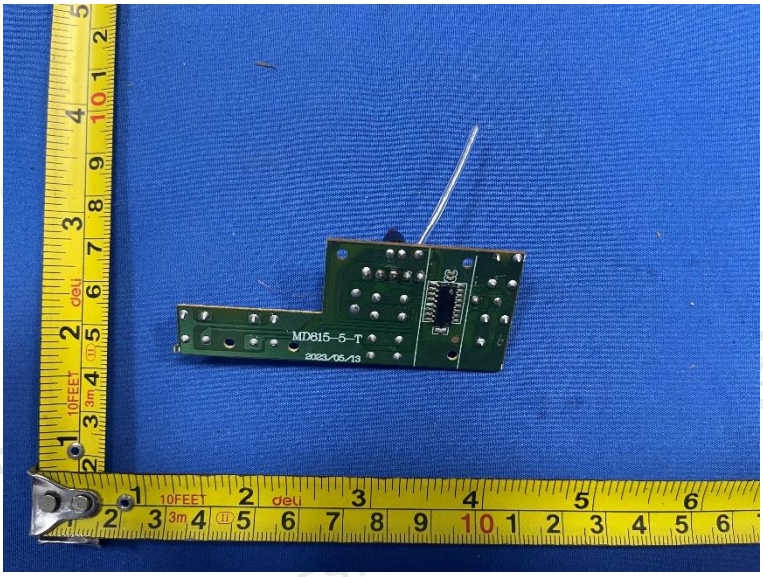
The maximum gain of antenna was 0.50 dBi.

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.

5. Test Setup Photos of the EUT

6. Test Photos of the EUT


ANT
ANT
LED
2.4G
GND
MD815-5-T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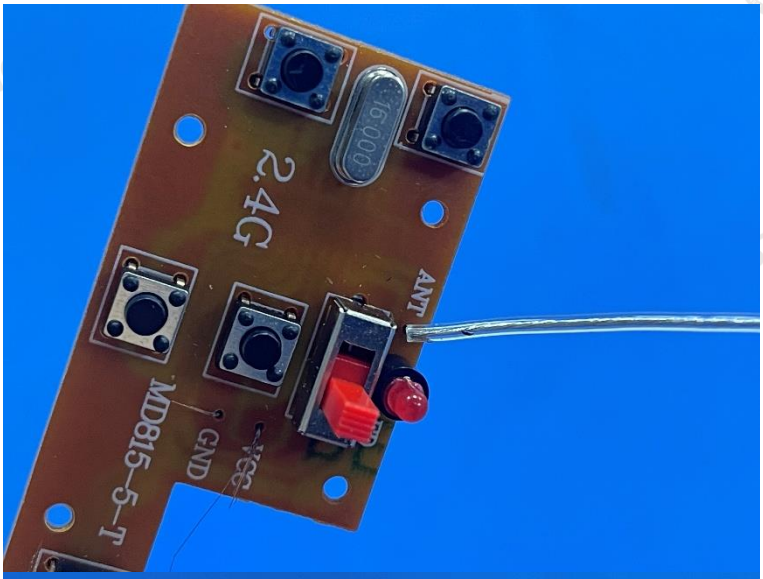
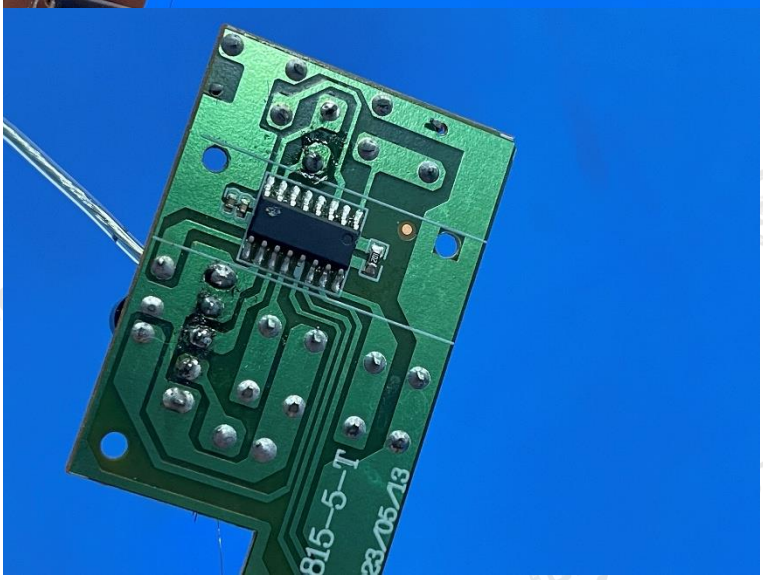
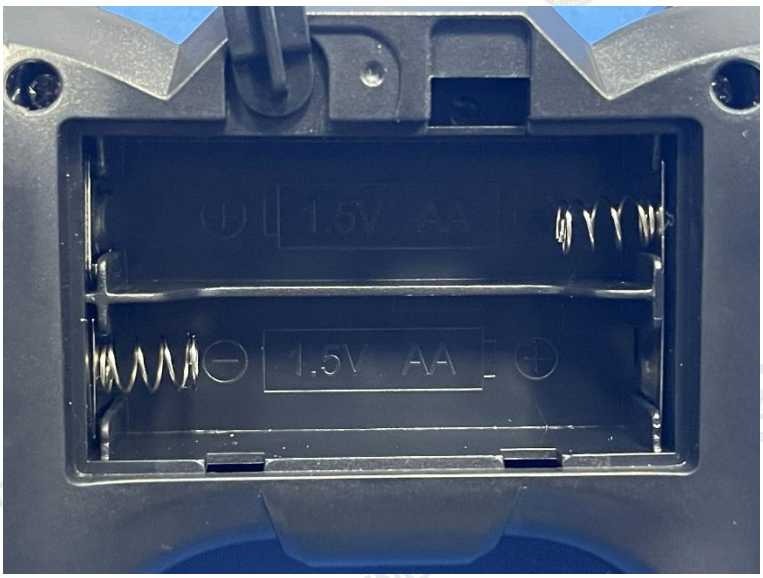
2023/05/13







.....End of Report.....