



Report No.: TW2111040E

File reference No.: 2021-11-30

Applicant: Guangdong A-OK TECHNOLOGY GRAND DEVELOPMENT CO., LTD.

Product: Plantation Shutter Motor

Model No.: AM20-D50N-82MM

Trademark: A-OK

Test Standards: FCC Part 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

A handwritten signature in black ink, appearing to read "Jack Chung", is written over a horizontal line.

Jack Chung

Manager

Dated: November 30, 2021

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES**

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China**

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 744189**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

#### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

#### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

#### **CAB identifier: CN0033**



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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 744189  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: Guangdong A-OK TECHNOLOGY GRAND DEVELOPMENT CO.,LTD.  
Address: Hexing Road South side, Sanhe Economic Development Zone, Huiyang, Huizhou, Guangdong, CN  
Telephone: 86-752-5718330  
Fax: 86-752-5718329

### 1.3 Description of EUT

Product: Plantation Shutter Motor  
Manufacturer: Guangdong A-OK TECHNOLOGY GRAND DEVELOPMENT CO.,LTD.  
Address: Hexing Road South side, Sanhe Economic Development Zone, Huiyang, Huizhou, Guangdong, CN  
Trademark: A-OK  
Model Number: AM20-D50N-82MM  
Additional Model Name N/A  
Hardware Version: V2.0  
Software Version: 210903  
Serial No.: B111731L010001  
Input Voltage: DC5.0V, 0.5A  
Battery: DC7.4V, 900mAh, 6.66Wh  
Power Supply: Model: NA010050020; Input: 100-240V~, 50-60Hz, 0.5A Max;  
Output: DC5V, 2.0A  
Modulation Type: GFSK (Bluetooth Low Energy)  
Operation Frequency: 2402-2480MHz  
Channel Separate: 2MHz  
Channel Number: 40

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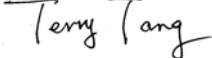


Antenna Designation PCB antenna used. The gain of the antennas is 2.5dBi (Declared by the applicant)  
Motor: EUT have alternative motors L20A and L20B, manufactured by the applicant. And the Motors do not affect the RF performance. During the test report. The conducted emissions and radiated emissions (below 1GHz) are measured and recorded.

1.4 Submitted Sample: 2 pcs

1.5 Test Duration  
2021-11-04 to 2021-11-30

1.6 Test Uncertainty  
Conducted Emissions Uncertainty =3.6dB  
Radiated Emissions below 1GHz Uncertainty =4.7dB  
Radiated Emissions above 1GHz Uncertainty =6.0dB  
Conducted Power Uncertainty =6.0dB  
Occupied Channel Bandwidth Uncertainty =5%  
Conducted Emissions Uncertainty =3.6dB  
Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer   
The sample tested by \_\_\_\_\_  
Print Name: Terry Tang



2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic	--	--	N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2021-06-18	2022-06-17
RF Cable	Zhengdi	7m	--	2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

## 2.2 Automation Test Software

### For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249 , ANSI C63.4 :2014 and ANSI C63.10 :2013

#### 4.0 EUT Modification

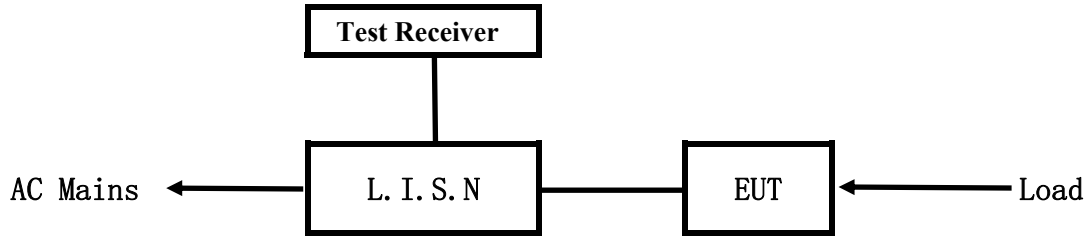
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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**5. Power Line Conducted Emission Test**

5.1 Schematics of the test



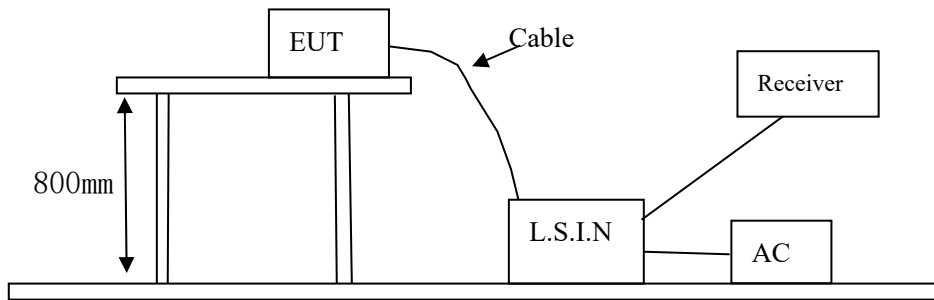
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
Plantation Shutter Motor	Guangdong A-OK TECHNOLOGY GRAND DEVELOPMENT CO.,LTD.	AM20-D50N-82MM	2AVVDAM20D50N

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	TIANYIN	TPA-46050200UU	Input: 100-240V~, 50/60Hz, 0.3A; Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes: 1. \*Decreasing linearly with logarithm of frequency.  
 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

Pass



**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

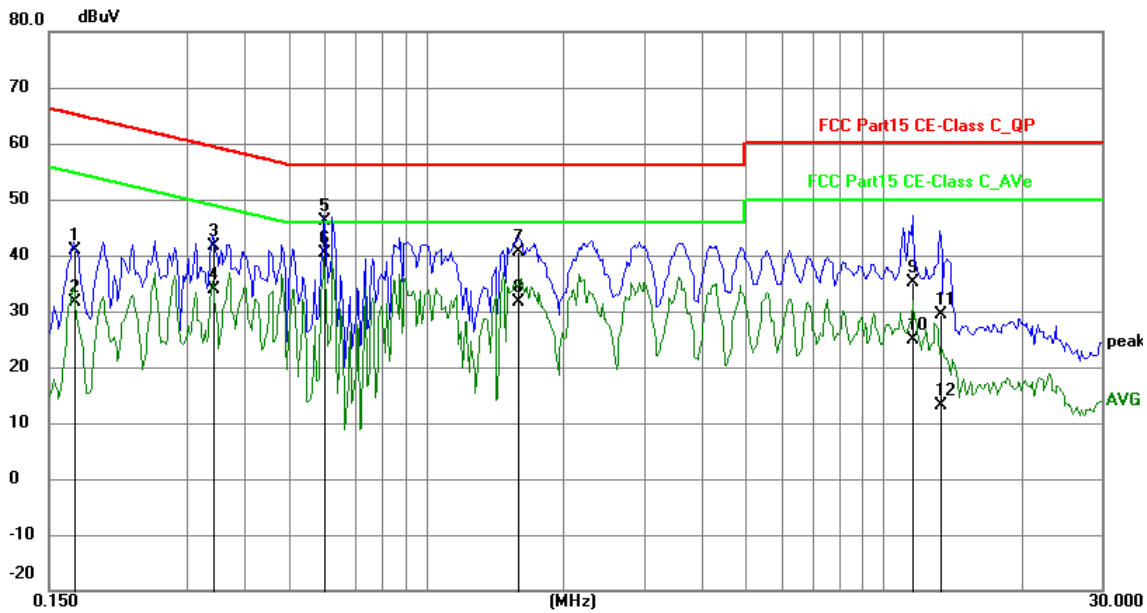
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication by BT**

**Note: Motor L20A**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1695	31.02	9.77	40.79	64.98	-24.19	QP	P
2	0.1695	21.74	9.77	31.51	54.98	-23.47	AVG	P
3	0.3410	31.90	9.76	41.66	59.18	-17.52	QP	P
4	0.3410	24.12	9.76	33.88	49.18	-15.30	AVG	P
5	0.5985	36.43	9.77	46.20	56.00	-9.80	QP	P
6	0.5985	30.52	9.77	40.29	46.00	-5.71	AVG	P
7	1.5930	30.77	9.80	40.57	56.00	-15.43	QP	P
8	1.5930	21.90	9.80	31.70	46.00	-14.30	AVG	P
9	11.5956	25.02	10.23	35.25	60.00	-24.75	QP	P
10	11.5956	14.65	10.23	24.88	50.00	-25.12	AVG	P
11	13.3194	19.01	10.31	29.32	60.00	-30.68	QP	P
12	13.3194	2.93	10.31	13.24	50.00	-36.76	AVG	P

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**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

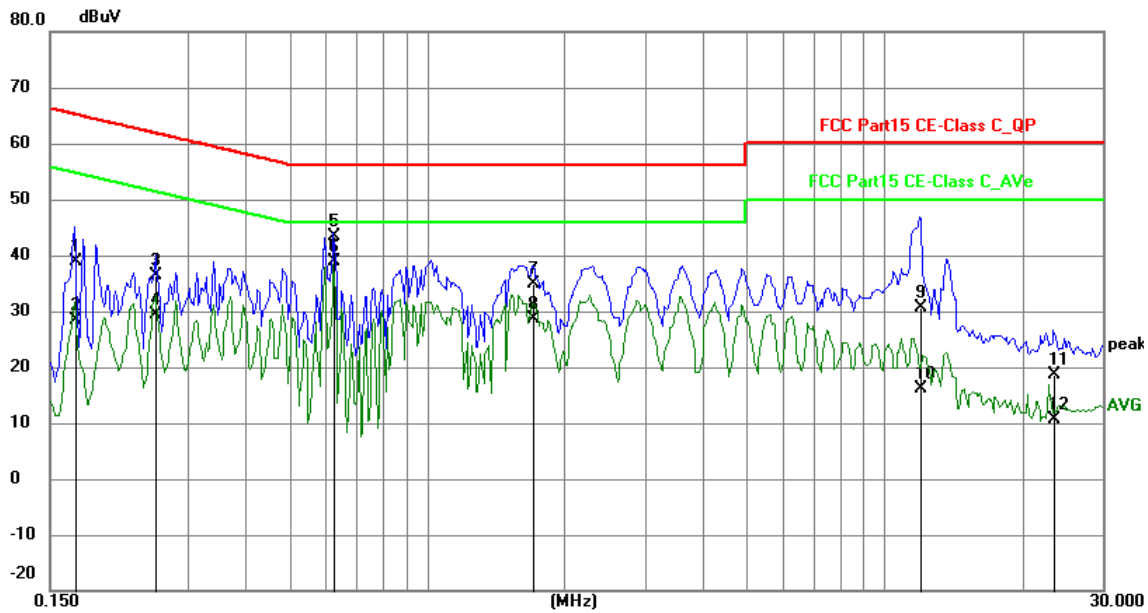
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication by BT**

**Note: Motor L20A**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1695	28.99	9.77	38.76	64.98	-26.22	QP	P
2	0.1695	18.62	9.77	28.39	54.98	-26.59	AVG	P
3	0.2553	26.57	9.75	36.32	61.58	-25.26	QP	P
4	0.2553	19.62	9.75	29.37	51.58	-22.21	AVG	P
5	0.6258	33.50	9.78	43.28	56.00	-12.72	QP	P
6	0.6258	29.15	9.78	38.93	46.00	-7.07	AVG	P
7	1.7061	25.16	9.80	34.96	56.00	-21.04	QP	P
8	1.7061	18.87	9.80	28.67	46.00	-17.33	AVG	P
9	11.9934	20.31	10.25	30.56	60.00	-29.44	QP	P
10	11.9934	5.87	10.25	16.12	50.00	-33.88	AVG	P
11	23.4204	7.71	10.89	18.60	60.00	-41.40	QP	P
12	23.4204	-0.27	10.89	10.62	50.00	-39.38	AVG	P

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**C: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

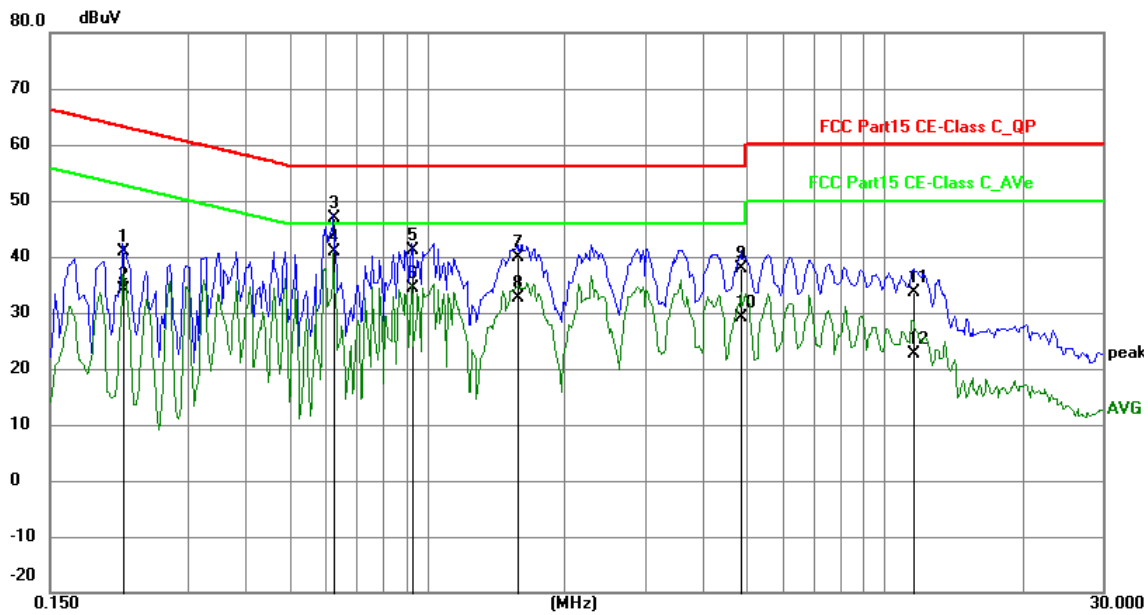
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication by BT**

**Note: Motor L20B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2163	31.19	9.75	40.94	62.96	-22.02	QP	P
2	0.2163	24.43	9.75	34.18	52.96	-18.78	AVG	P
3	0.6258	37.01	9.78	46.79	56.00	-9.21	QP	P
4	0.6258	31.10	9.78	40.88	46.00	-5.12	AVG	P
5	0.9261	31.22	9.79	41.01	56.00	-14.99	QP	P
6	0.9261	24.56	9.79	34.35	46.00	-11.65	AVG	P
7	1.5774	30.13	9.80	39.93	56.00	-16.07	QP	P
8	1.5774	22.92	9.80	32.72	46.00	-13.28	AVG	P
9	4.8720	27.91	9.92	37.83	56.00	-18.17	QP	P
10	4.8720	19.32	9.92	29.24	46.00	-16.76	AVG	P
11	11.5605	23.42	10.23	33.65	60.00	-26.35	QP	P
12	11.5605	12.45	10.23	22.68	50.00	-27.32	AVG	P

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**D: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

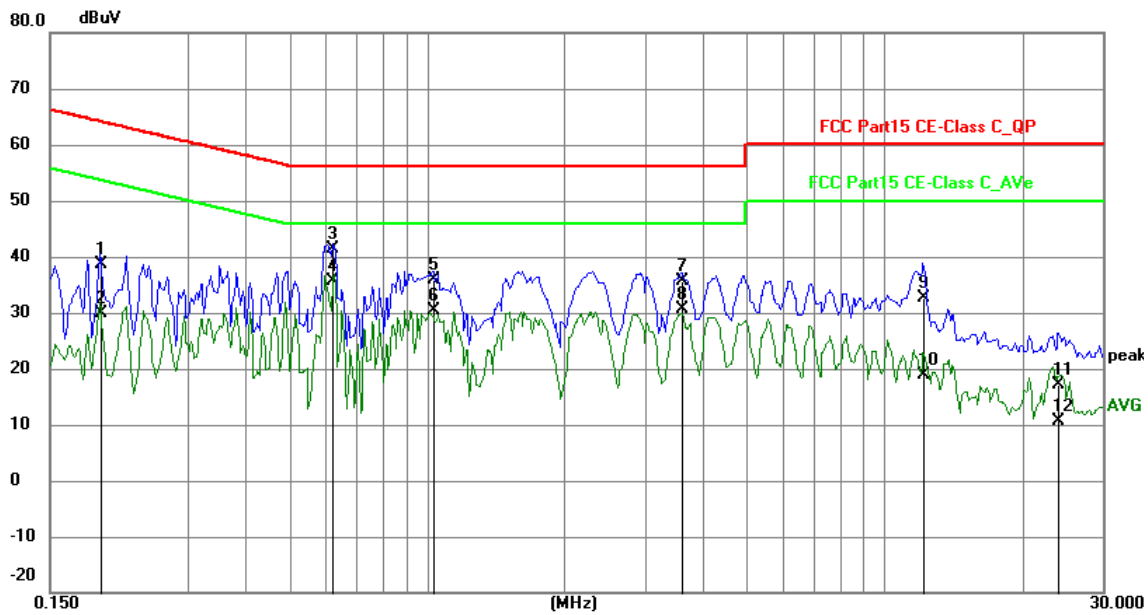
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication by BT**

**Note: Motor L20B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1929	28.97	9.75	38.72	63.91	-25.19	QP	P
2	0.1929	20.15	9.75	29.90	53.91	-24.01	AVG	P
3	0.6219	31.65	9.78	41.43	56.00	-14.57	QP	P
4	0.6219	25.81	9.78	35.59	46.00	-10.41	AVG	P
5	1.0314	25.99	9.79	35.78	56.00	-20.22	QP	P
6	1.0314	20.58	9.79	30.37	46.00	-15.63	AVG	P
7	3.5928	25.76	9.87	35.63	56.00	-20.37	QP	P
8	3.5928	20.71	9.87	30.58	46.00	-15.42	AVG	P
9	12.1650	22.45	10.26	32.71	60.00	-27.29	QP	P
10	12.1650	8.55	10.26	18.81	50.00	-31.19	AVG	P
11	23.9859	6.19	10.93	17.12	60.00	-42.88	QP	P
12	23.9859	-0.30	10.93	10.63	50.00	-39.37	AVG	P

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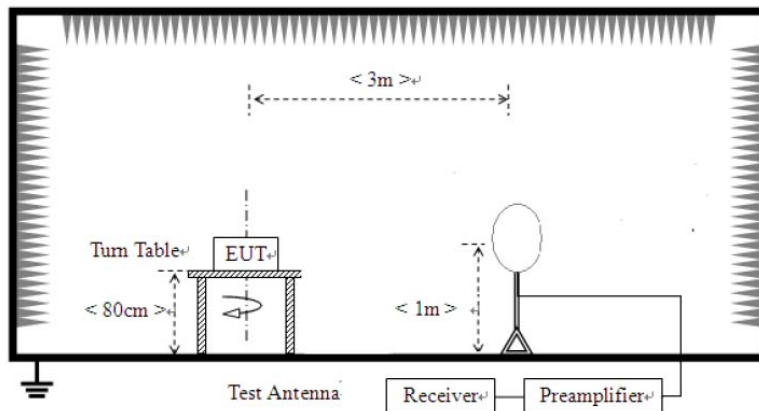
## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



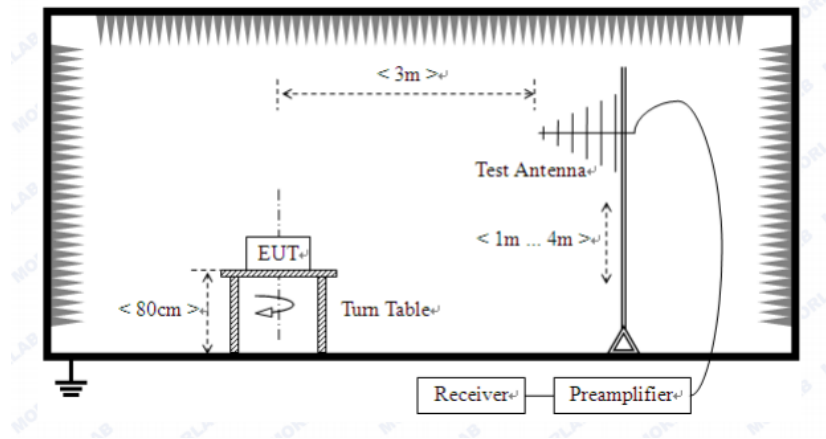
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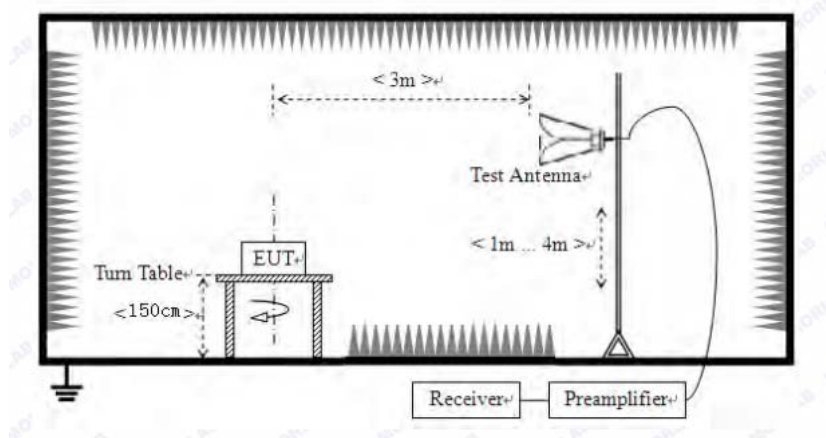
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



## 6.2 Configuration of The EUT

Same as section 5.3 of this report

## 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

**A FCC Part 15 Subpart C Paragraph 15.249(a) Limit**

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)		Field Strength of Harmonics (3m)		
	mV/m	dBuV/m	uV/m	dBuV/m	
2400-2483.5	50	94 (Average) 114 (Peak)	500	54 (Average)	74 (Peak)

- Note:
1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
  2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
  3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

**B. Frequencies in restricted band are complied to limit on Paragraph 15.209.**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.049	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
2. In the Above Table, the tighter limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
  4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.

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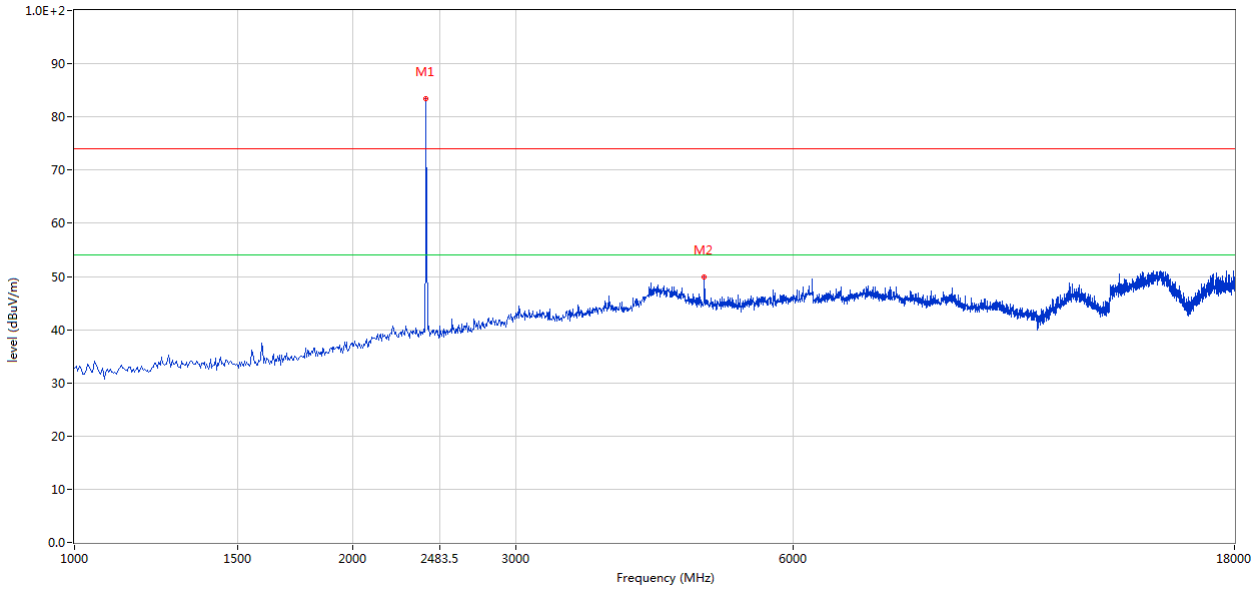
**6.5 Test result**

**A Fundamental & Harmonics Radiated Emission Data**

Please refer to the following test plots for details: Low Channel-2402MHz

**Horizontal**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.149	83.47	-3.57	114.0	-30.53	Peak	127.00	100	Horizontal	Pass
2	4802.799	50.92	3.12	74.0	-23.08	Peak	136.00	100	Horizontal	Pass

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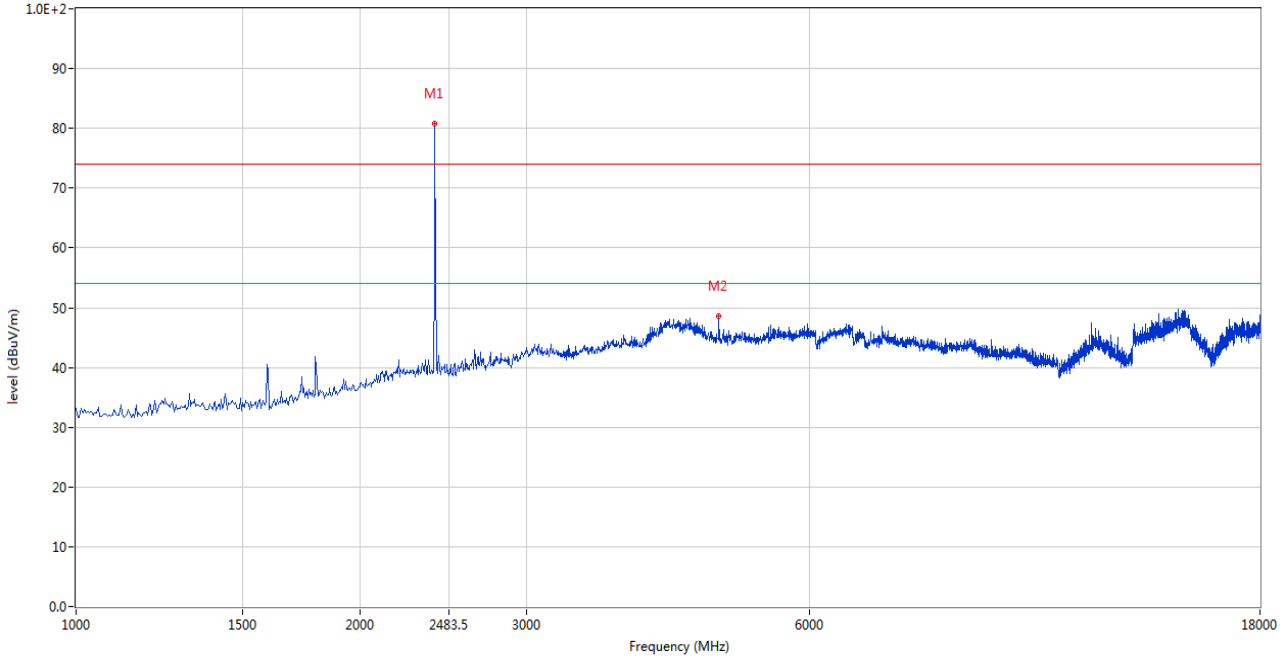
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**Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.149	80.82	-3.57	74.0	6.82	Peak	39.00	100	Vertical	Pass
2	4802.799	49.55	3.12	74.0	-24.45	Peak	193.00	100	Vertical	Pass

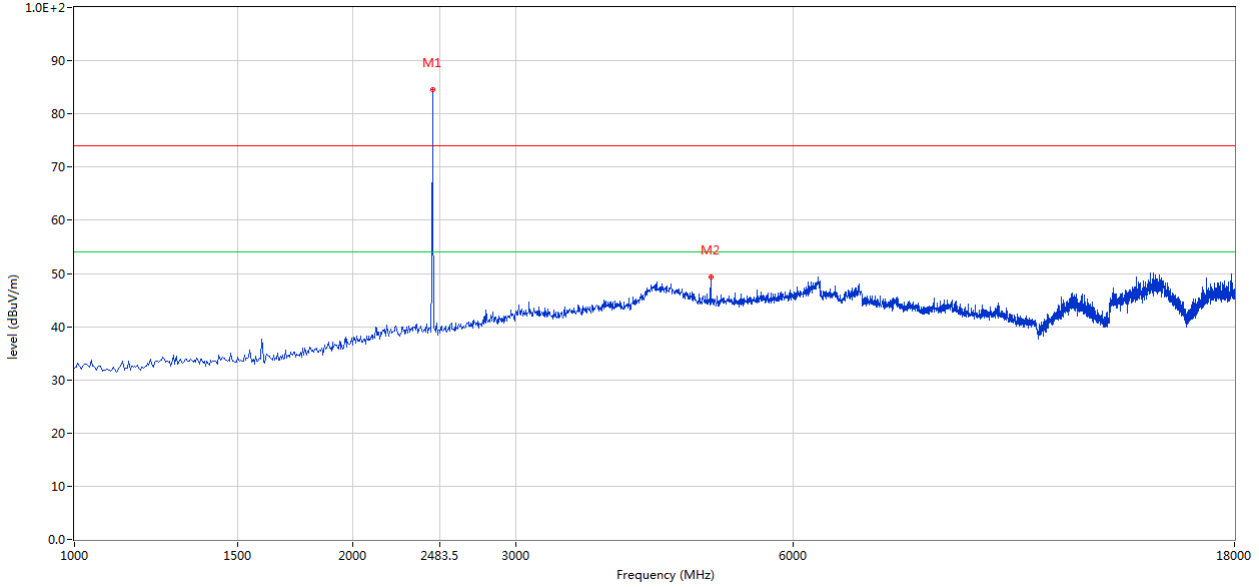
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Please refer to the following test plots for details: Middle Channel-2440MHz

**Horizontal**

FCC Part 15C Class B 1GHz-18GHz -2



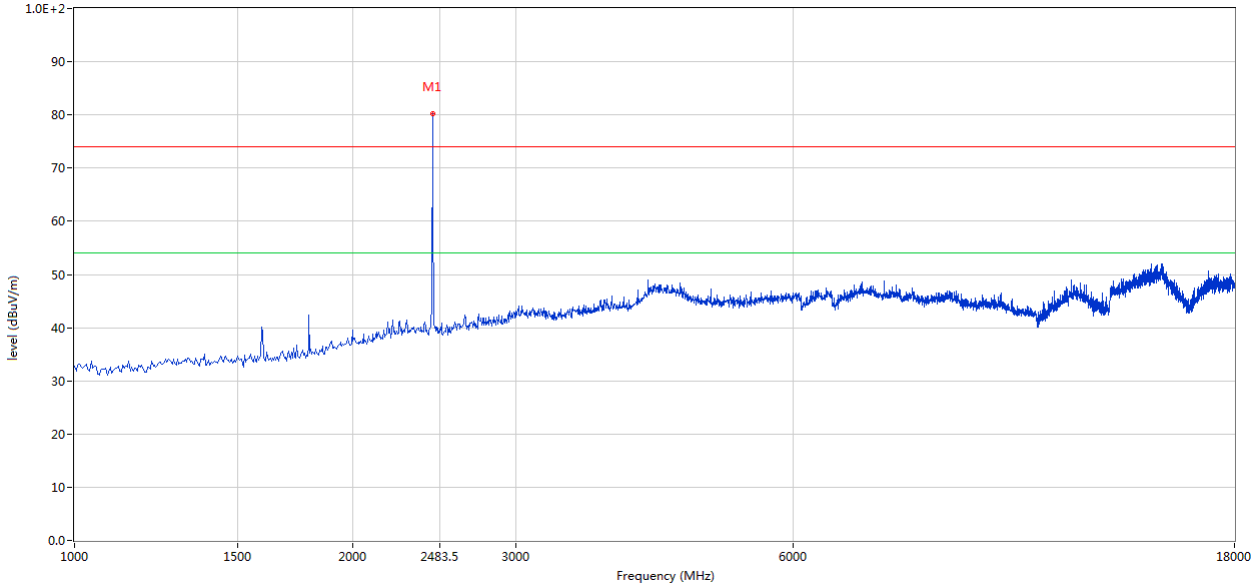
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440.390	84.56	-3.57	114.0	-29.44	Peak	134.00	100	Horizontal	Pass
2	4883.529	49.37	3.20	74.0	-24.63	Peak	130.00	100	Horizontal	Pass

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**Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440.390	80.30	-3.57	114.0	-33.70	Peak	156.00	100	Vertical	Pass

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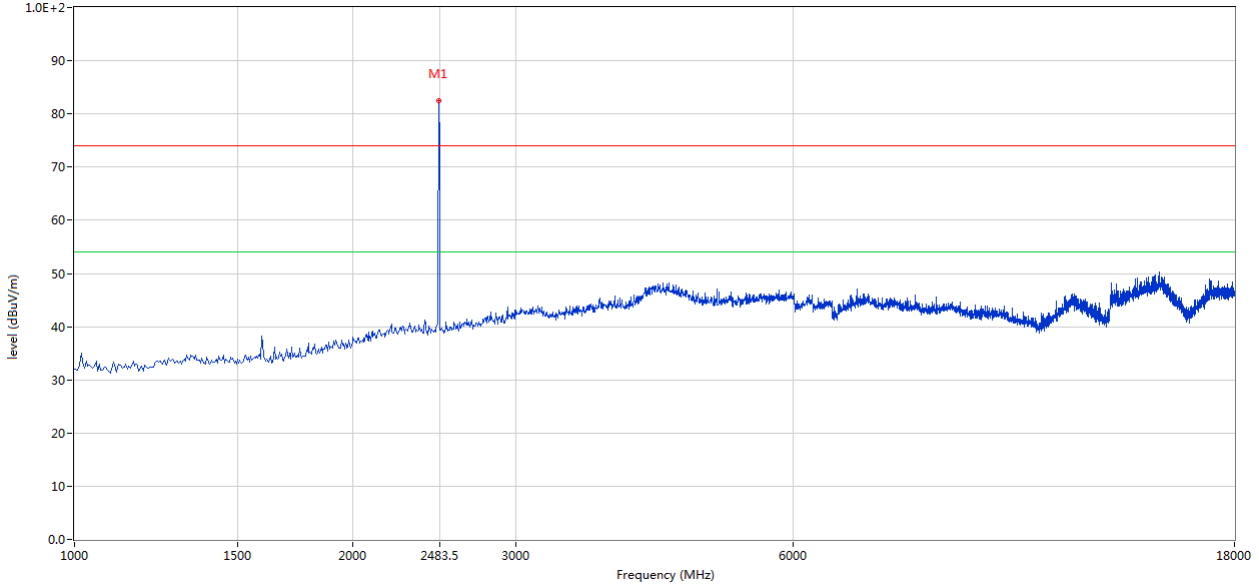
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Please refer to the following test plots for details: High Channel-2480MHz

**Horizontal**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.630	82.53	-3.57	114.0	-31.47	Peak	204.00	100	Horizontal	Pass

The report refers only to the sample tested and does not apply to the bulk.

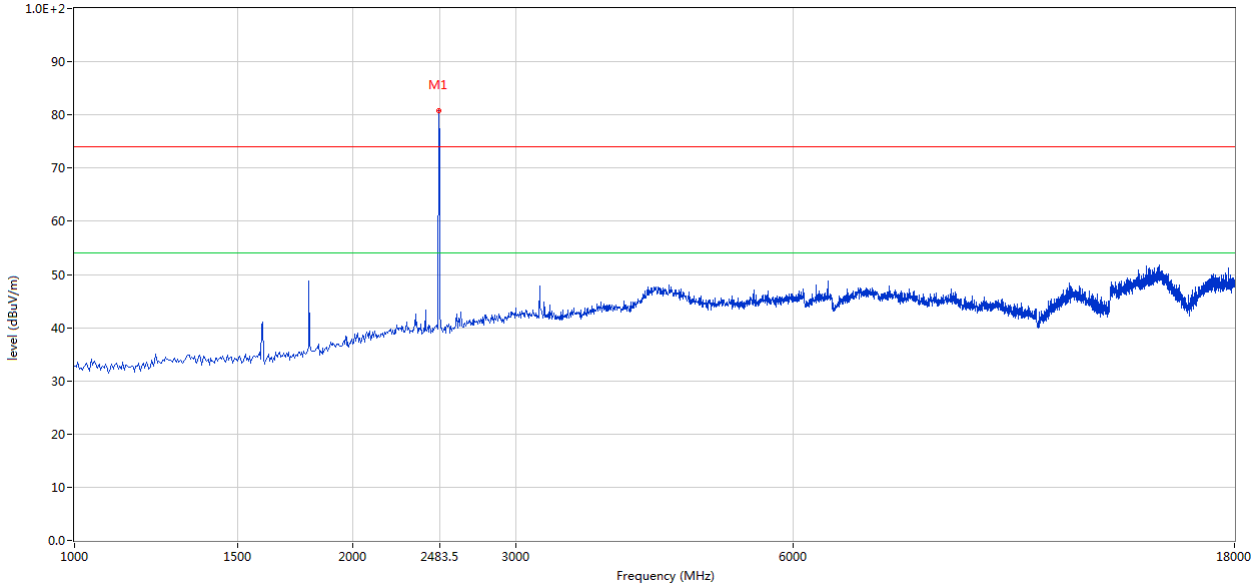
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**Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.630	80.75	-3.57	114.0	-33.25	Peak	164.00	100	Vertical	Pass

- Note:
- (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier
  - (3) Margin=Emission-Limits
  - (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
  - (5) For test purpose, keep EUT continuous transmitting
  - (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
  - (6) the measured PK value less than the AV limit.

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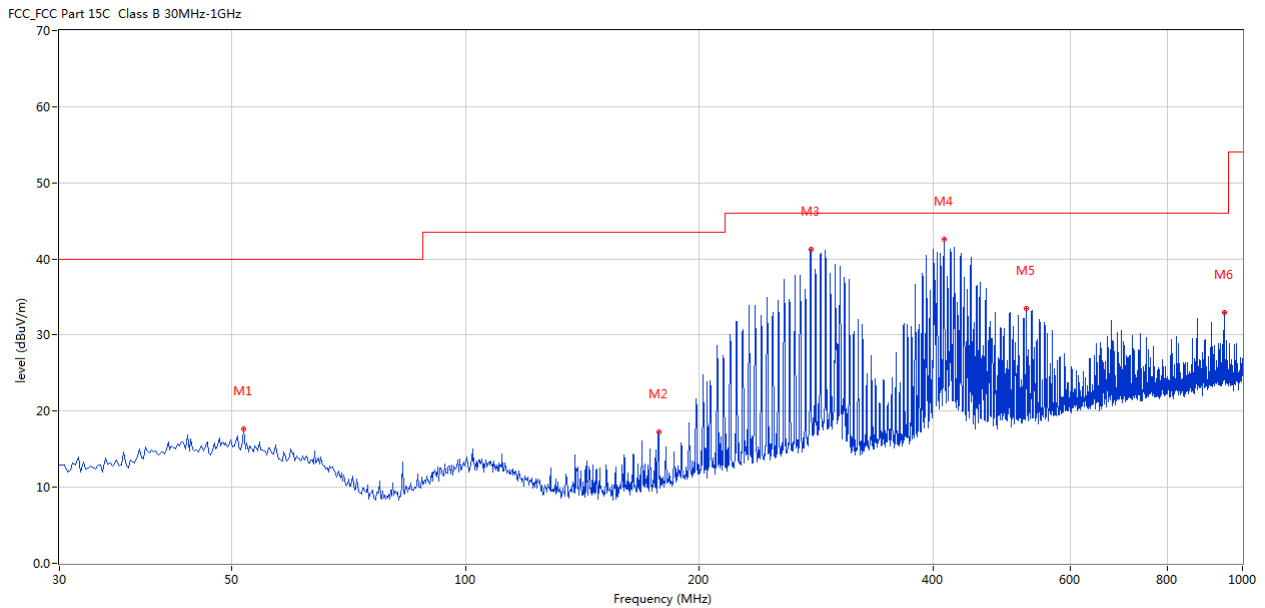


**B. General Radiated Emission Data**  
**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting  
 Remark: Motor L20A

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	51.820	17.61	-11.42	40.0	-22.39	Peak	332.00	100	Horizontal	Pass
2	177.161	17.23	-15.71	43.5	-26.27	Peak	265.00	200	Horizontal	Pass
3	278.015	41.21	-11.55	46.0	-4.79	Peak	74.00	100	Horizontal	Pass
4	412.812	42.60	-8.35	46.0	-3.40	Peak	78.00	100	Horizontal	Pass
5	527.243	33.46	-6.58	46.0	-12.54	Peak	272.00	200	Horizontal	Pass
6	946.663	32.99	-1.57	46.0	-13.01	Peak	228.00	100	Horizontal	Pass

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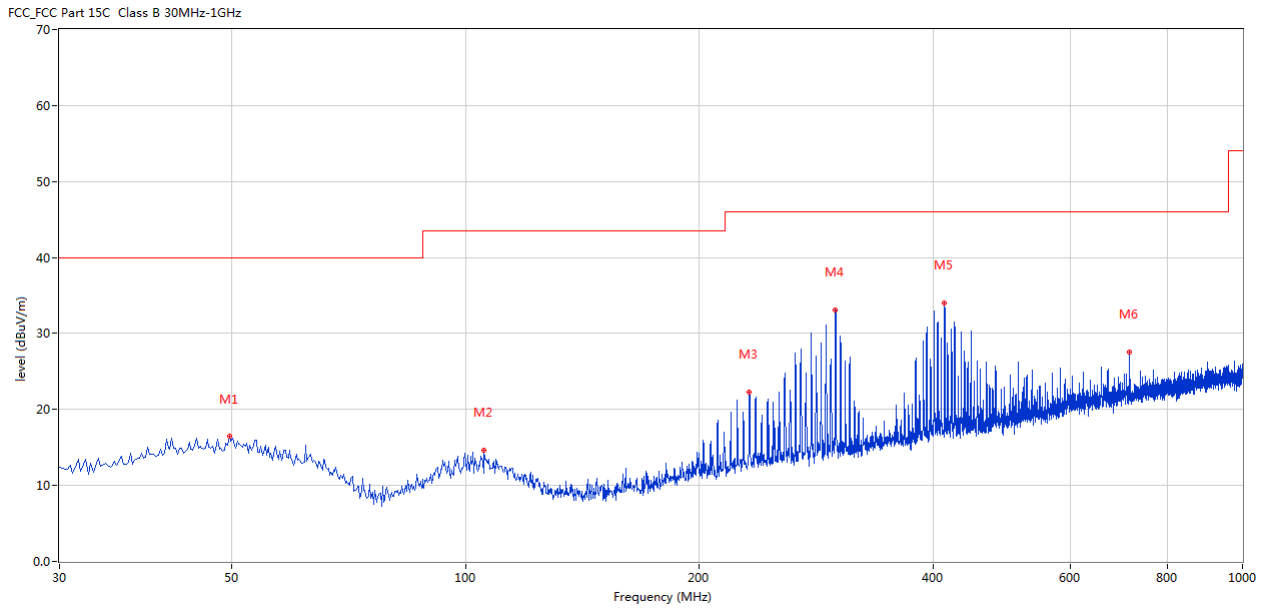


**Radiated Emission In Vertical (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting  
 Remark: Motor L20A

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	49.638	16.42	-11.32	40.0	-23.58	Peak	115.00	100	Vertical	Pass
2	105.641	14.61	-13.27	43.5	-28.89	Peak	34.00	100	Vertical	Pass
3	231.952	22.28	-12.56	46.0	-23.72	Peak	105.00	100	Vertical	Pass
4	299.350	33.13	-11.06	46.0	-12.87	Peak	0.00	100	Vertical	Pass
5	413.539	33.99	-8.28	46.0	-12.01	Peak	158.00	100	Vertical	Pass
6	715.619	27.55	-3.99	46.0	-18.45	Peak	329.00	100	Vertical	Pass

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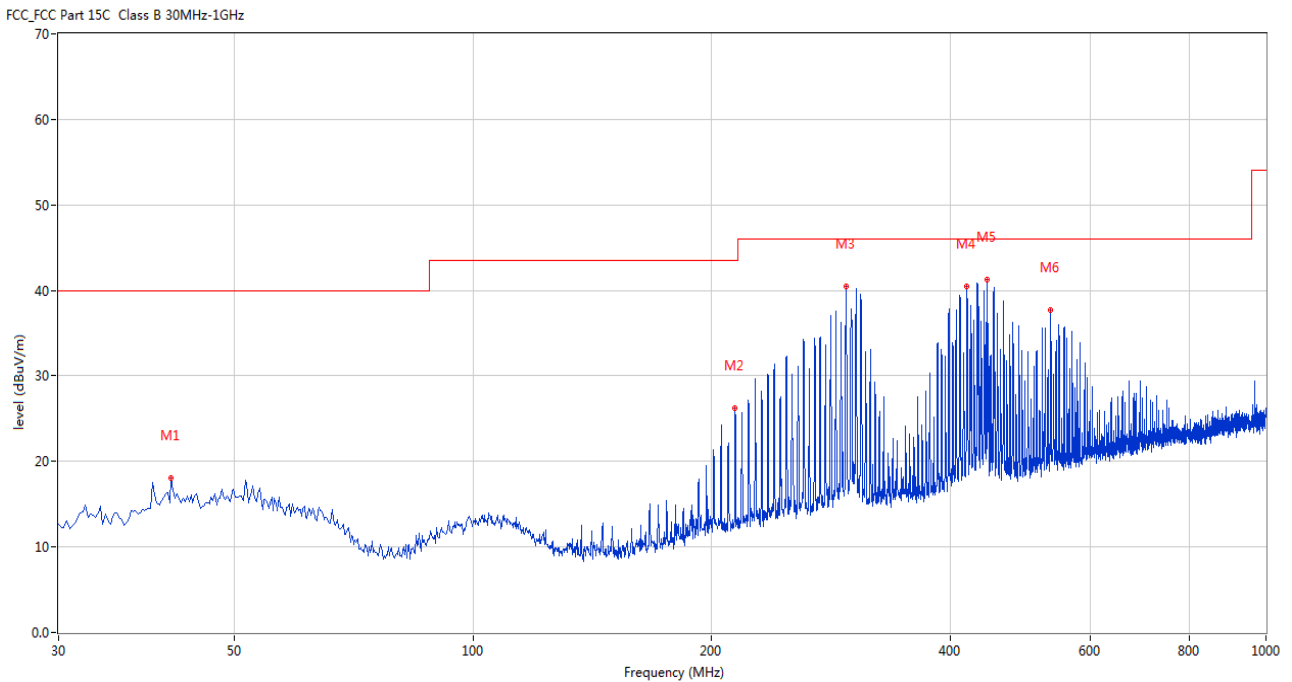


**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting  
 Remark: Motor L20B

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	41.637	18.12	-11.82	40.0	-21.88	Peak	96.00	100	Horizontal	Pass
2	214.011	26.28	-13.60	43.5	-17.22	Peak	267.00	200	Horizontal	Pass
3	295.229	40.48	-11.14	46.0	-5.52	Peak	247.00	100	Horizontal	Pass
4	419.843	40.51	-8.23	46.0	-5.49	Peak	105.00	100	Horizontal	Pass
5	445.541	41.24	-8.02	46.0	-4.76	Peak	64.00	200	Horizontal	Pass
6	535.486	37.75	-6.45	46.0	-8.25	Peak	88.00	200	Horizontal	Pass

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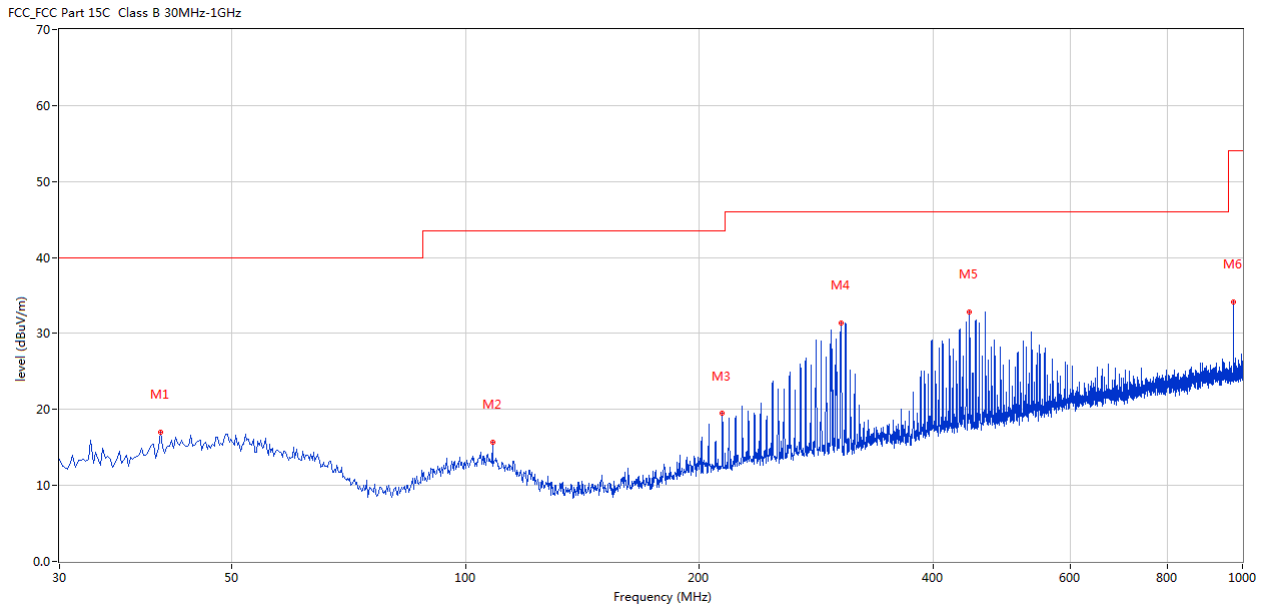


**Radiated Emission In Vertical (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting  
 Remark: Motor L20B

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	40.425	16.96	-12.27	40.0	-23.04	Peak	269.00	100	Vertical	Pass
2	108.308	15.63	-13.43	43.5	-27.87	Peak	286.00	200	Vertical	Pass
3	214.011	19.45	-13.60	43.5	-24.05	Peak	360.00	200	Vertical	Pass
4	303.957	31.43	-10.99	46.0	-14.57	Peak	360.00	200	Vertical	Pass
5	445.299	32.78	-8.00	46.0	-13.22	Peak	344.00	200	Vertical	Pass
6	973.332	34.11	-1.55	54.0	-19.89	Peak	181.00	100	Vertical	Pass

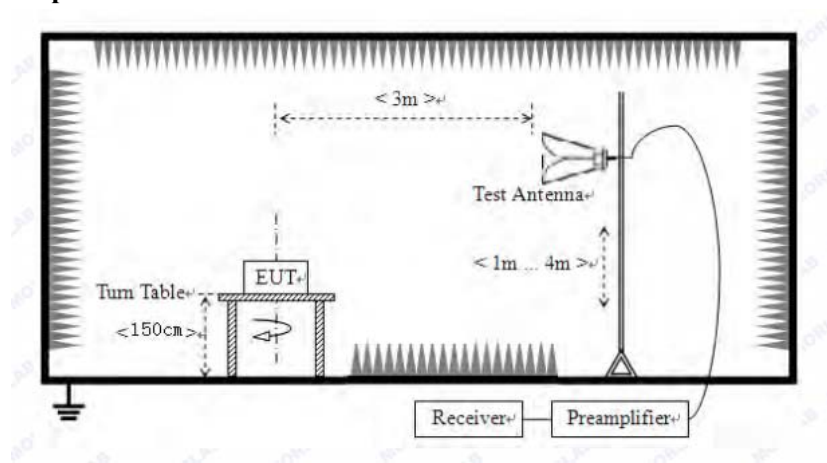
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## 7. Band Edge

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

### 7.2 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

### 7.3 Configuration of The EUT

Same as section 5.3 of this report

### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

### 7.5 Band Edge Limit

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 Section 15.209, whichever is the lesser attenuation.

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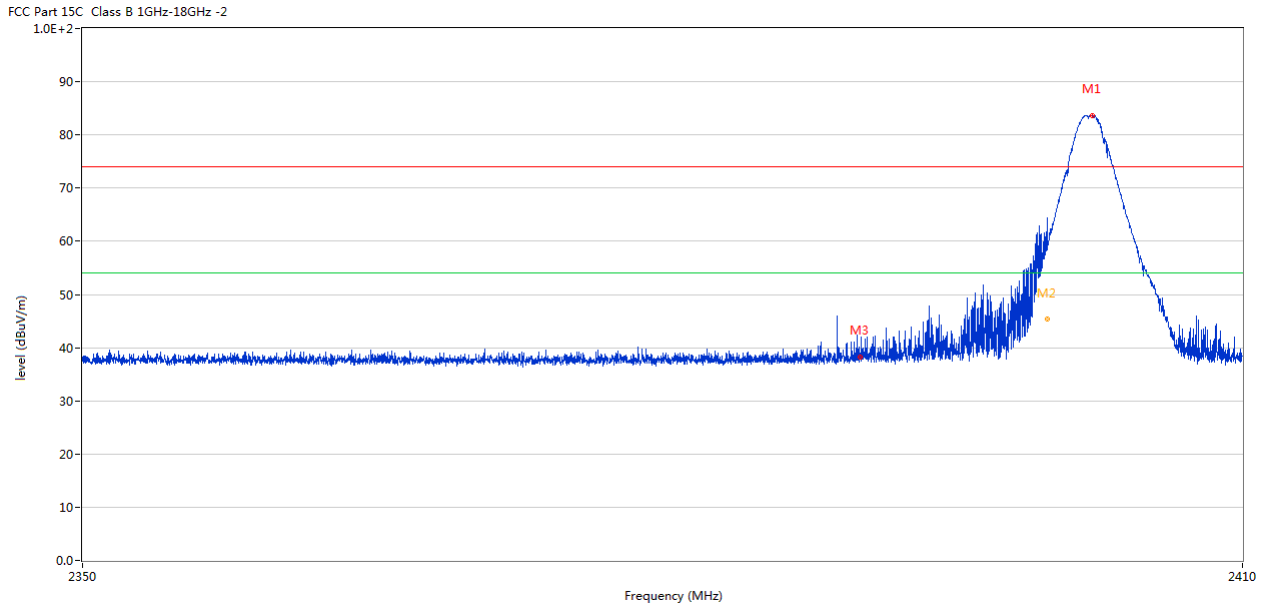
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**7.6 Test Result**

Product:	Plantation Shutter Motor	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

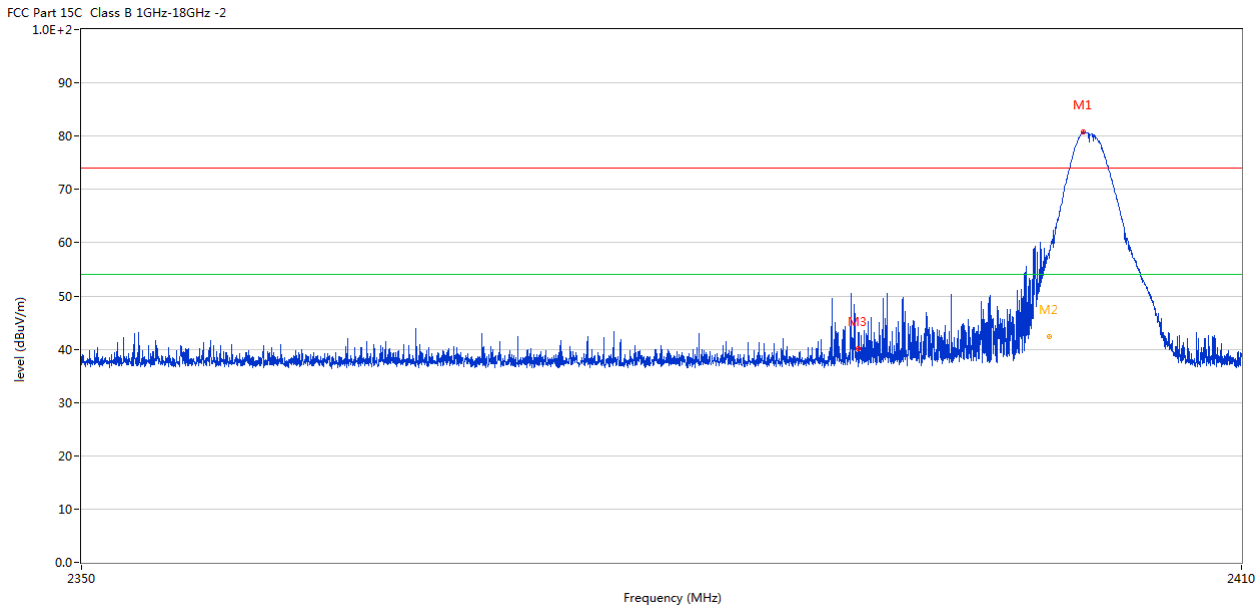


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2399.788	64.38	-3.57	74.0	-9.62	Peak	133.00	100	Horizontal	Pass
2**	2399.788	45.42	-3.57	54.0	-8.58	AV	133.00	100	Horizontal	Pass
3	2390.055	38.27	-3.53	74.0	-35.73	Peak	133.00	100	Horizontal	Pass

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Product:	Plantation Shutter Motor	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

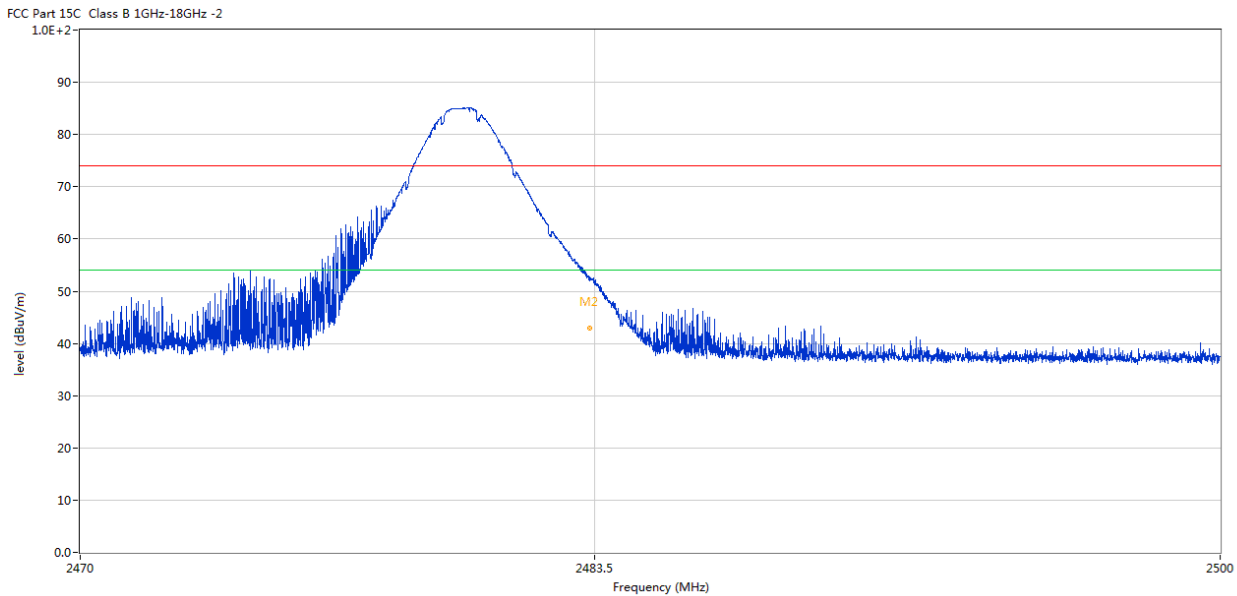


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2399.953	58.07	-3.57	74.0	-15.93	Peak	164.00	100	Vertical	Pass
2**	2399.953	42.32	-3.57	54.0	-11.68	AV	164.00	100	Vertical	Pass
3	2390.010	40.18	-3.53	74.0	-33.82	Peak	86.00	100	Vertical	Pass

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Product:	Plantation Shutter Motor	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2483.369	52.72	-3.57	74.0	-21.28	Peak	129.00	100	Horizontal	Pass
2**	2483.369	43.22	-3.57	54.0	-10.78	AV	129.00	100	Horizontal	Pass

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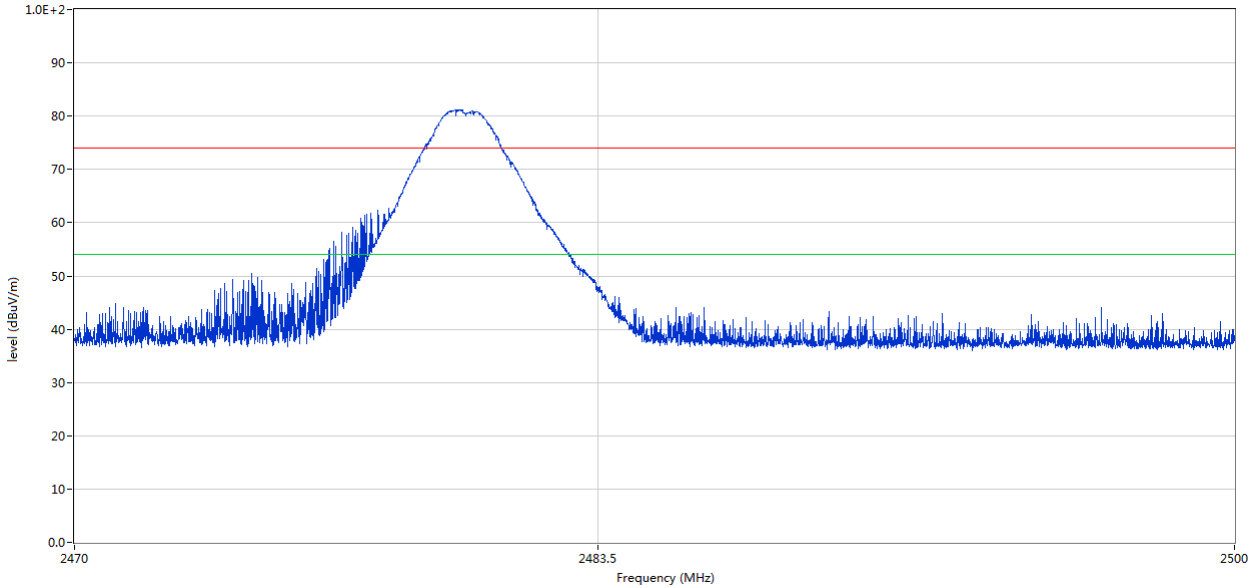
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Product:	Plantation Shutter Motor	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2483.324	49.48	-3.57	74.0	-24.52	Peak	175.00	100	Vertical	Pass

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

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## 8.0 Antenna Requirement

### Applicable Standard

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna with gain 2.5dBi Max. It fulfills the requirement of this section.

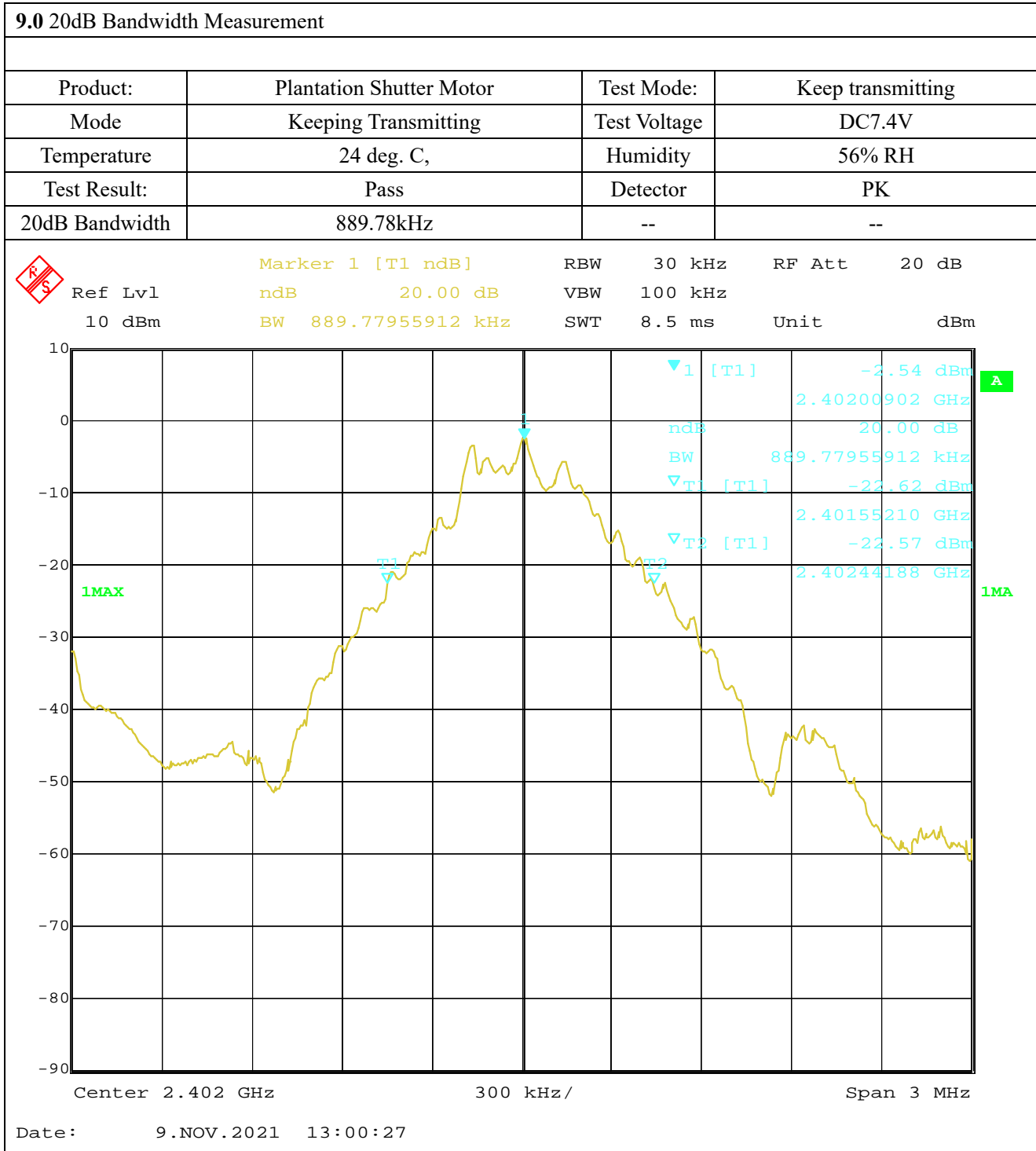
Test Result: Pass

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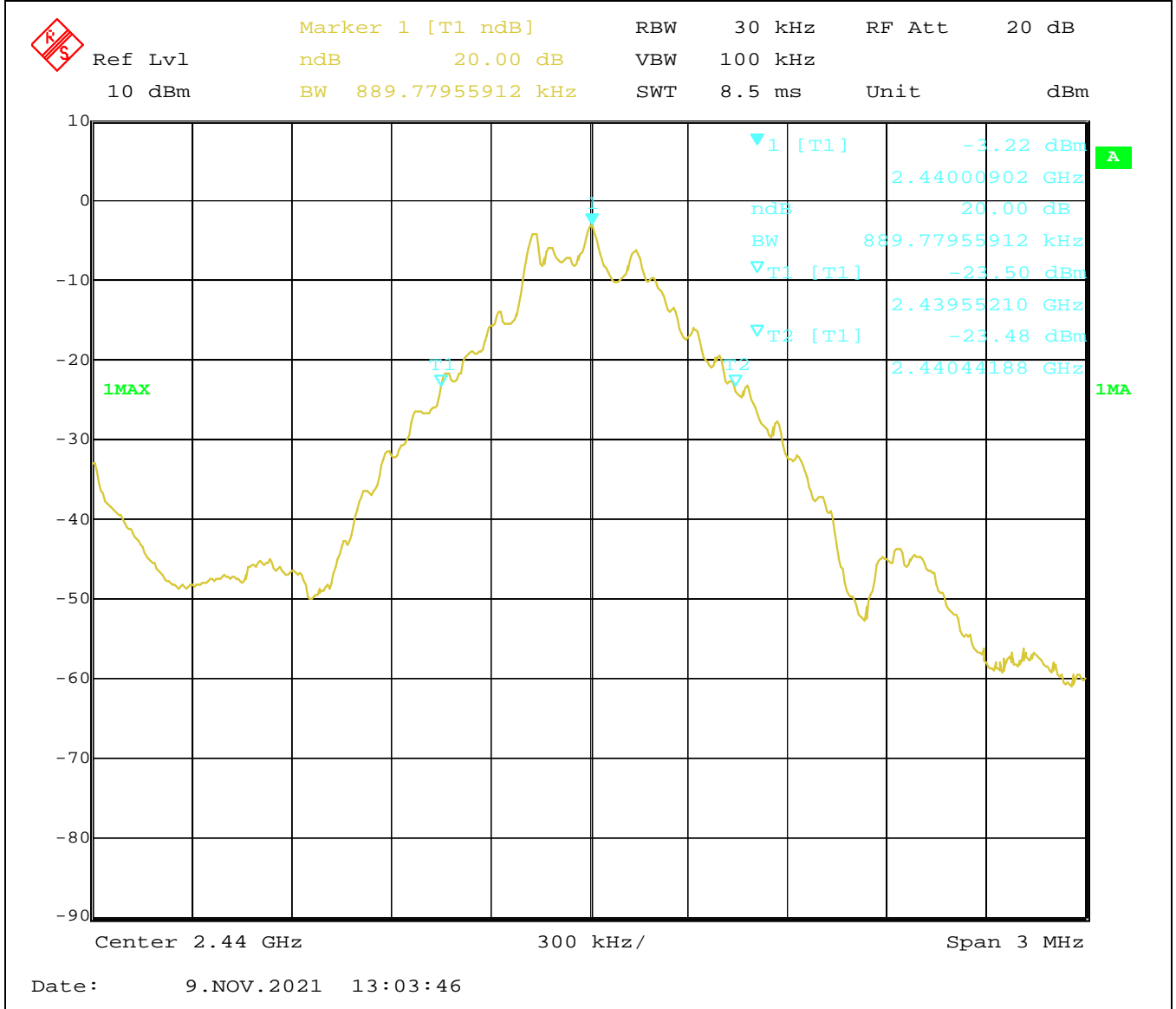




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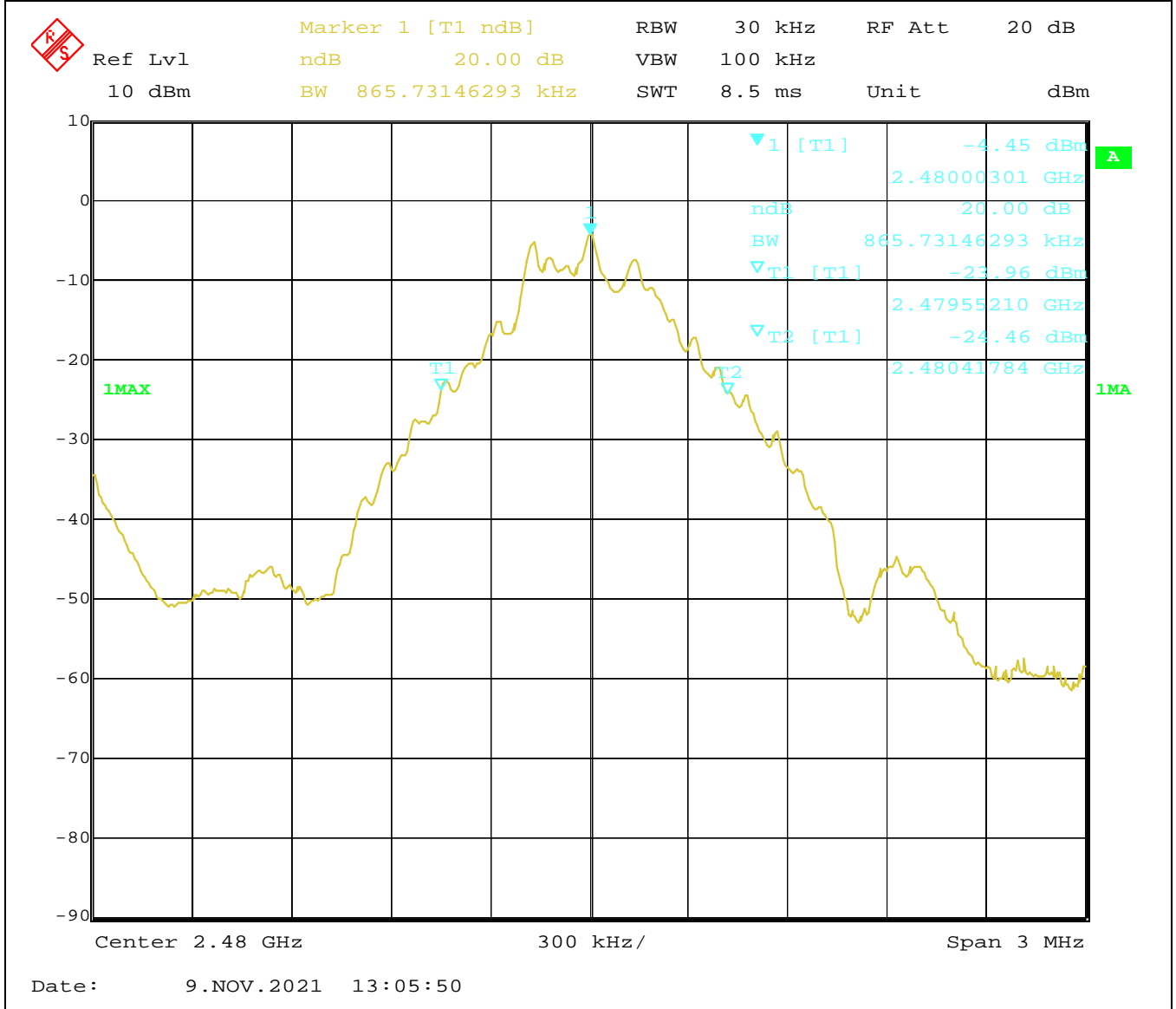
Product:	Plantation Shutter Motor	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	889.78kHz	--	--



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Product:	Plantation Shutter Motor	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC7.4V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	865.73kHz	--	--



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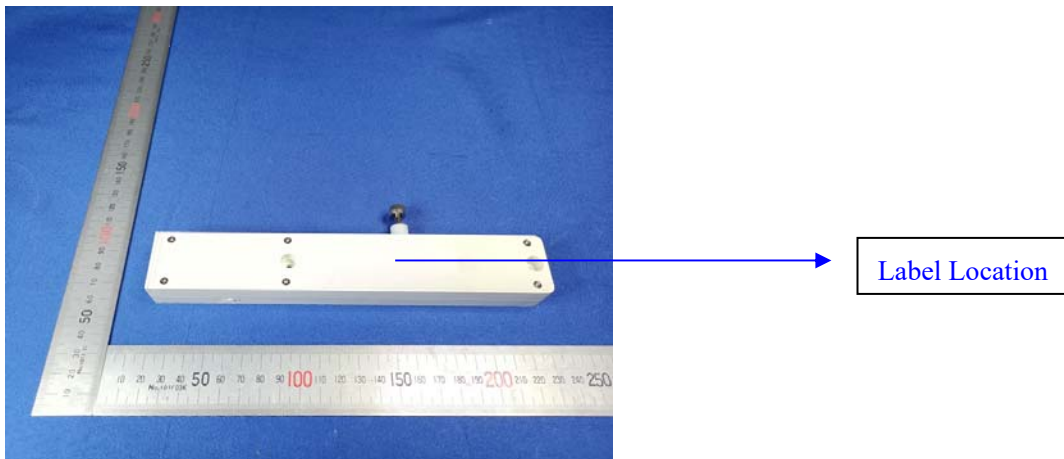
## 10.0 FCC ID Label

### FCC ID: 2AVVDAM20D50N

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



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**11.0** Photo of testing

**11.1** Conducted test View--



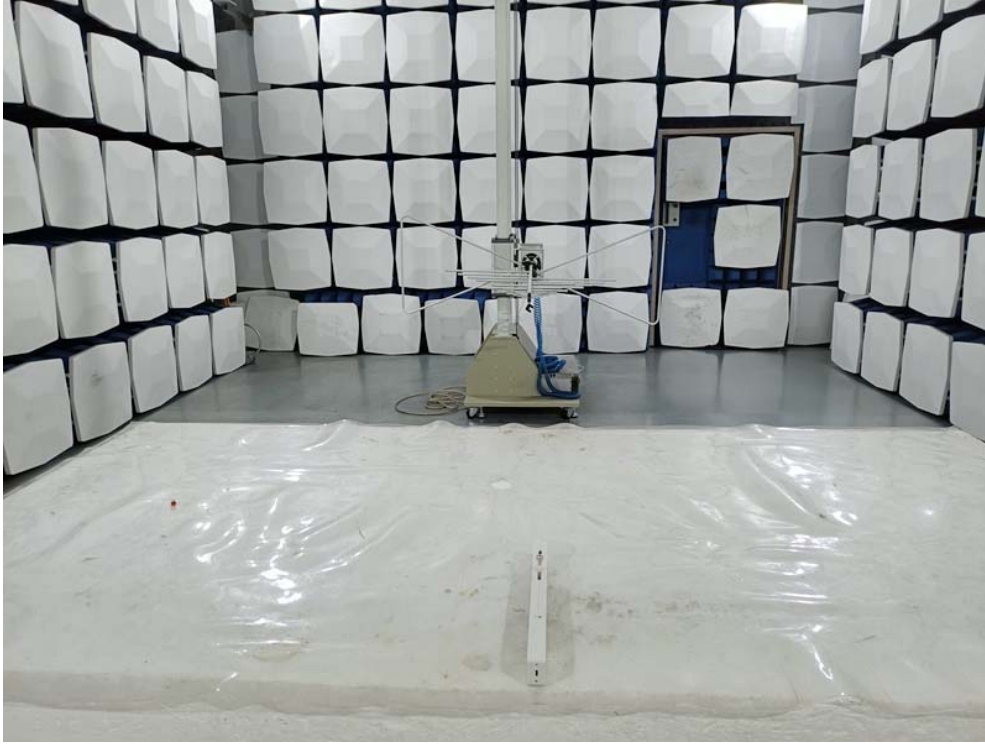
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Radiated emission test view



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11.2 Photographs – EUT

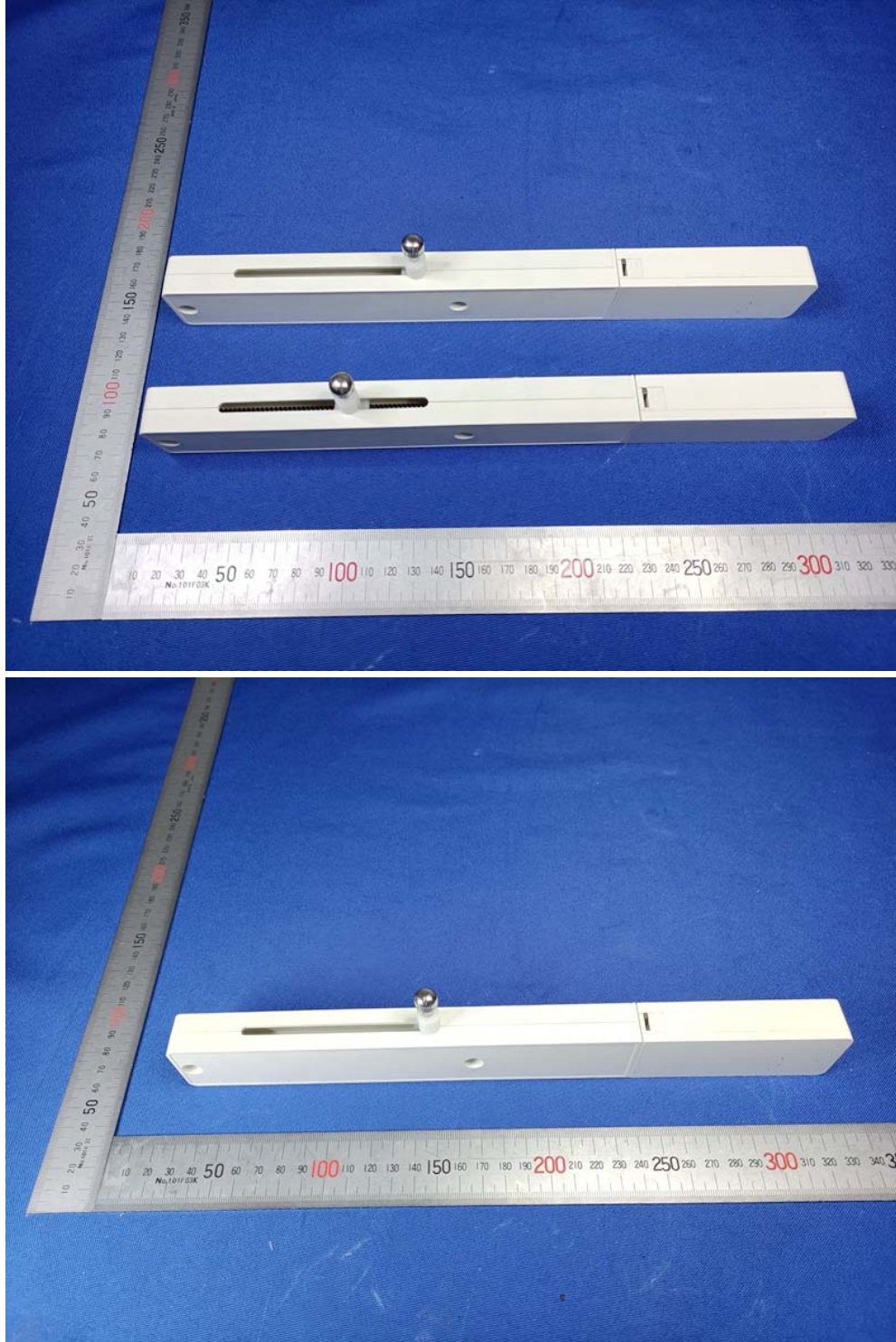
Outside View



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Outside View

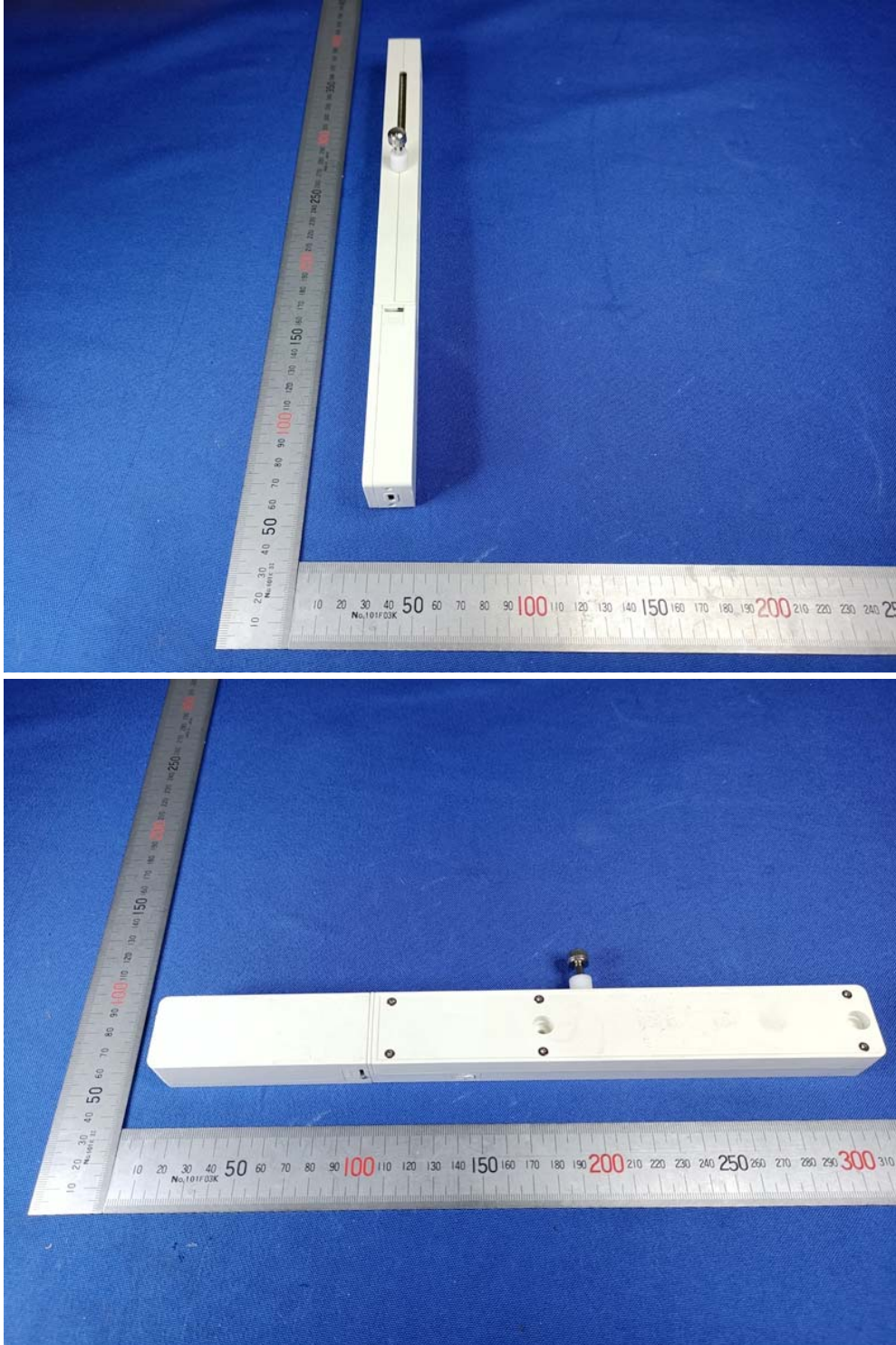


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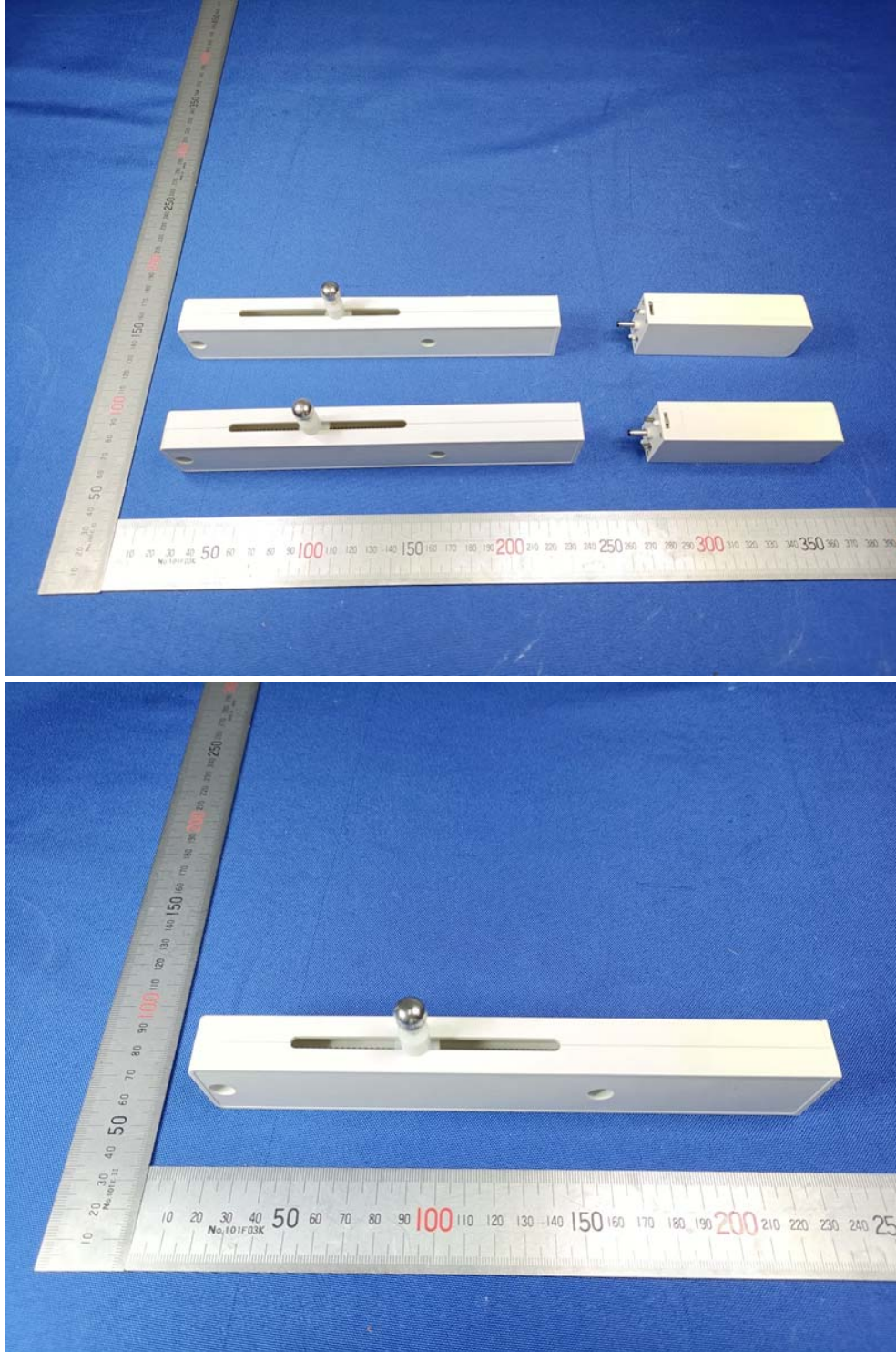
Outside View



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Outside View

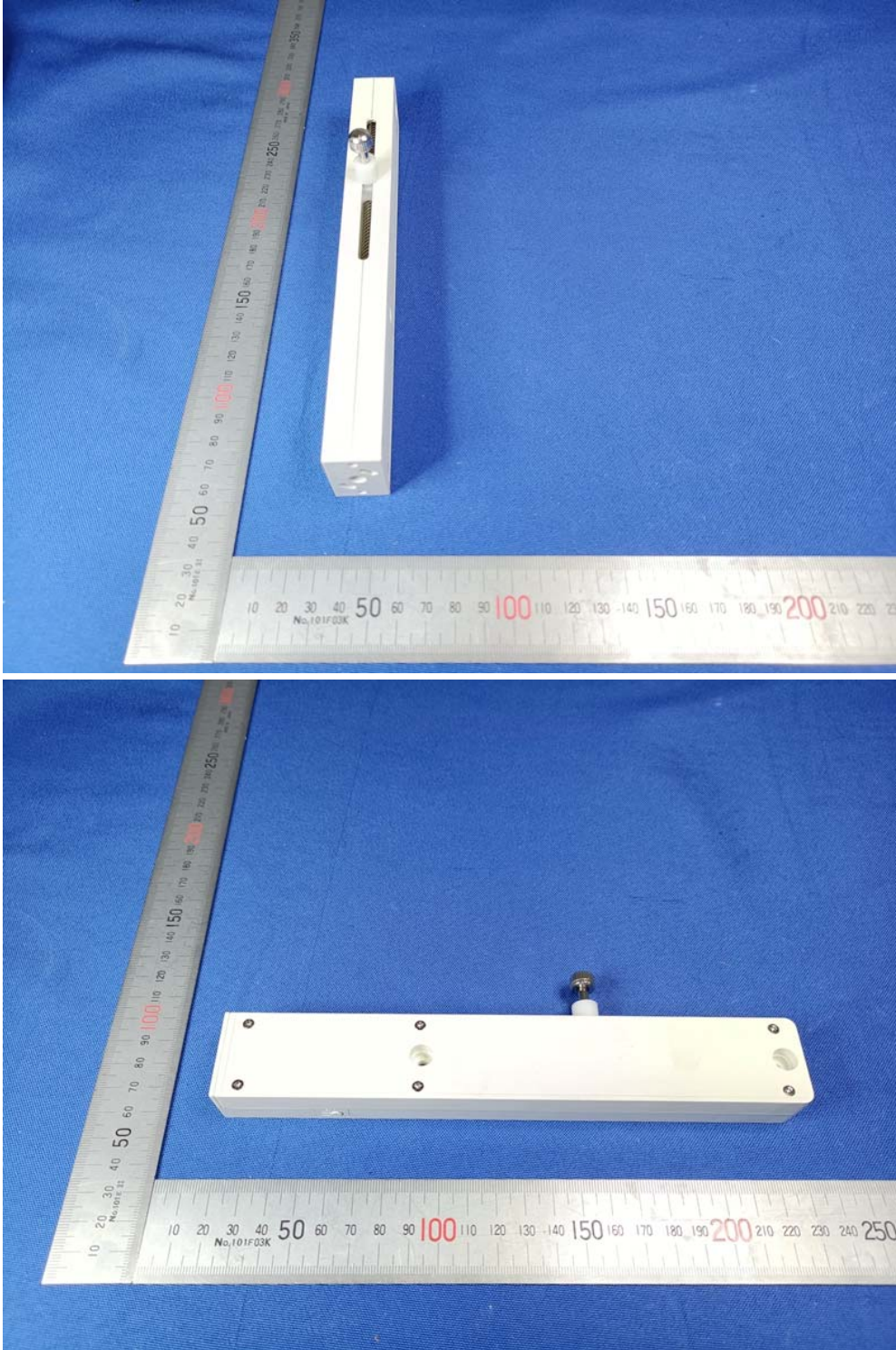


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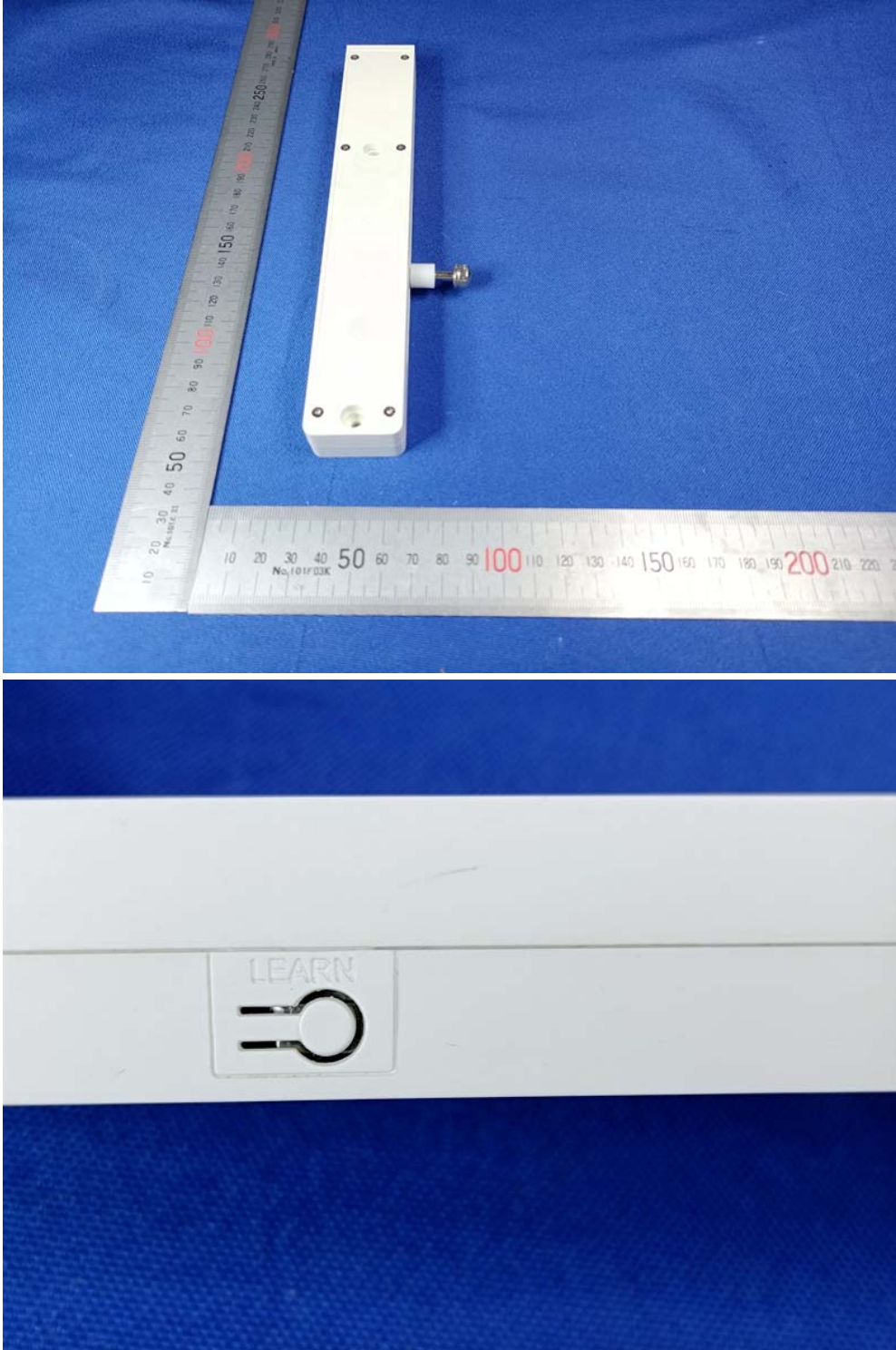
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Outside View



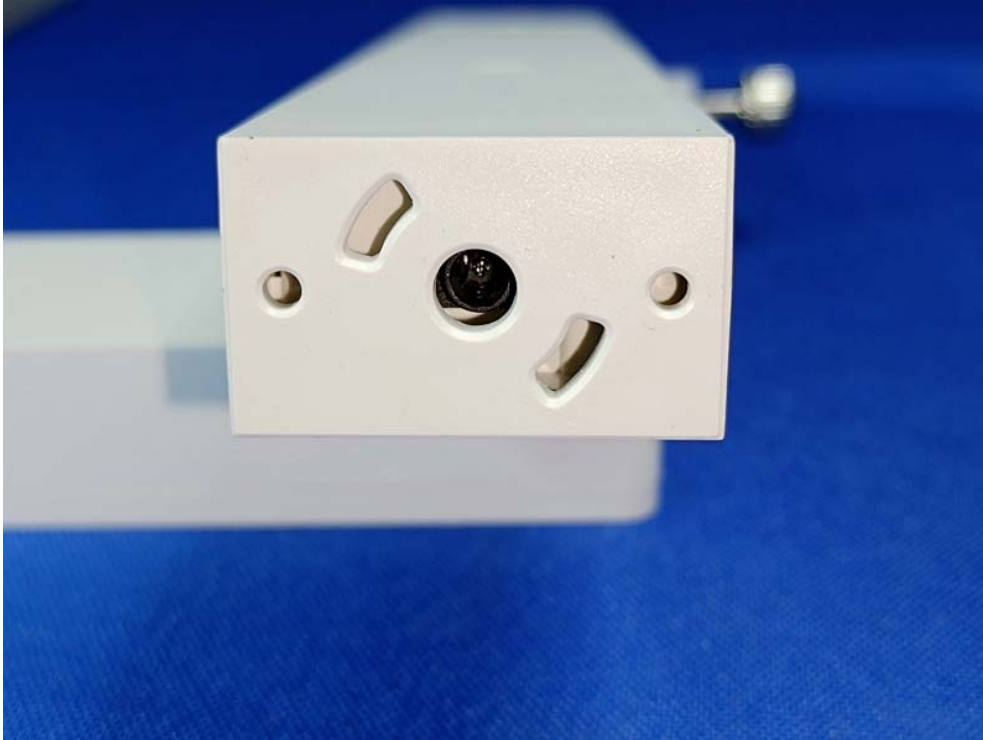
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Outside View



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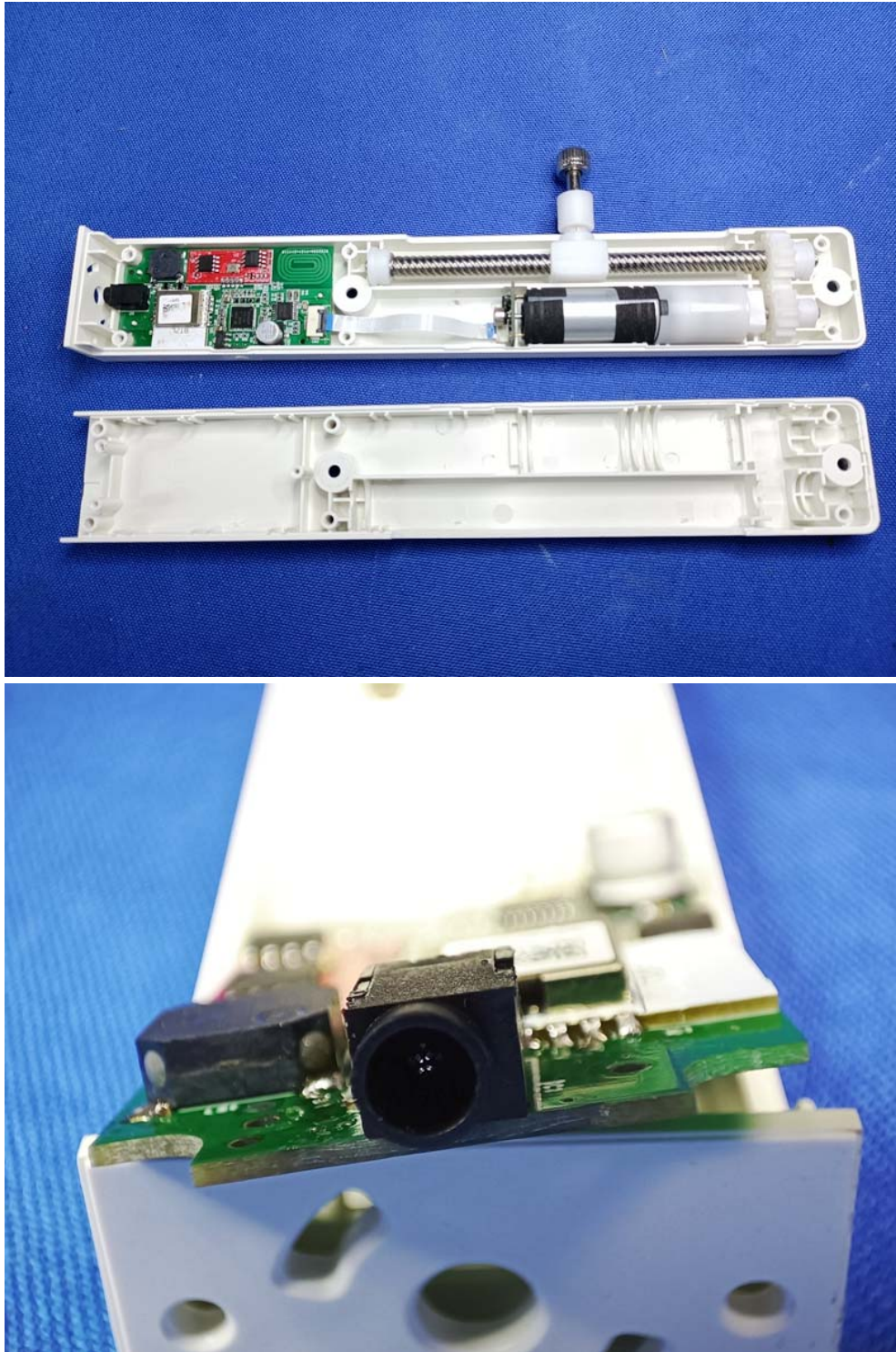
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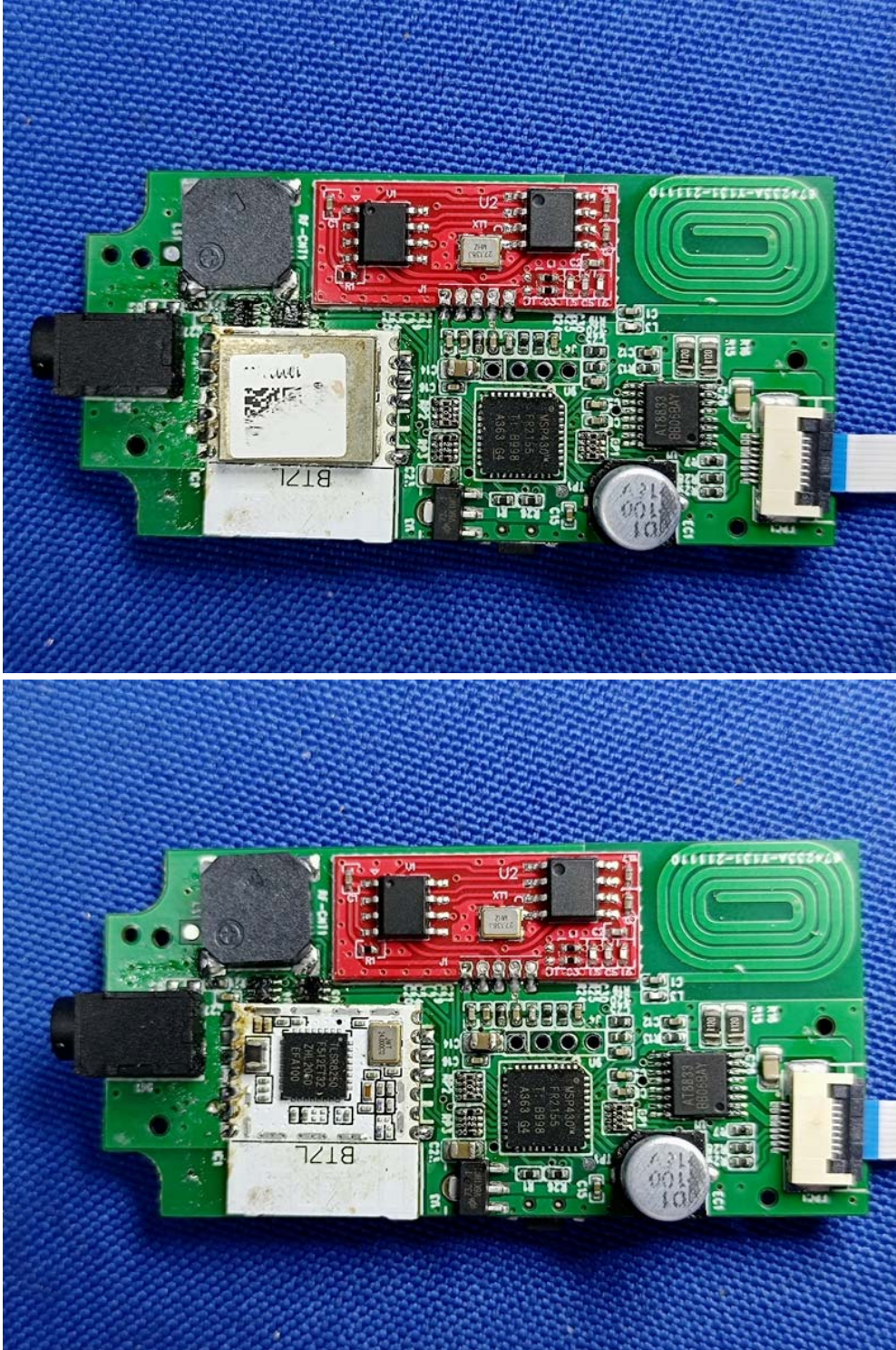
Inside View- Motor L20A



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Inside View- Motor L20A

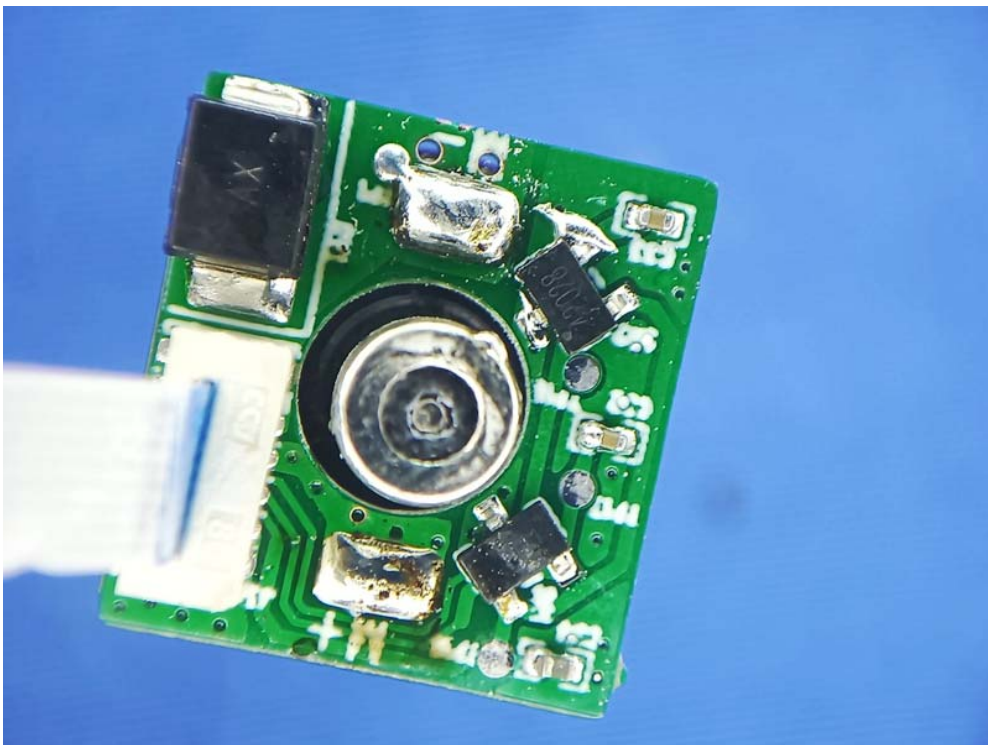
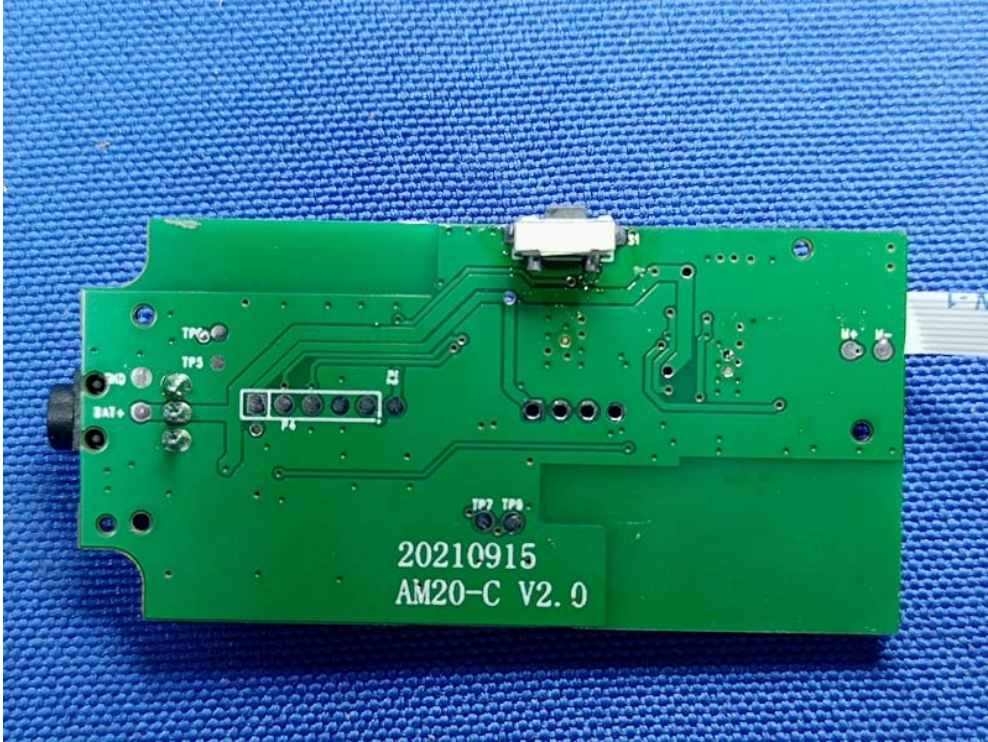


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Inside View- Motor L20A

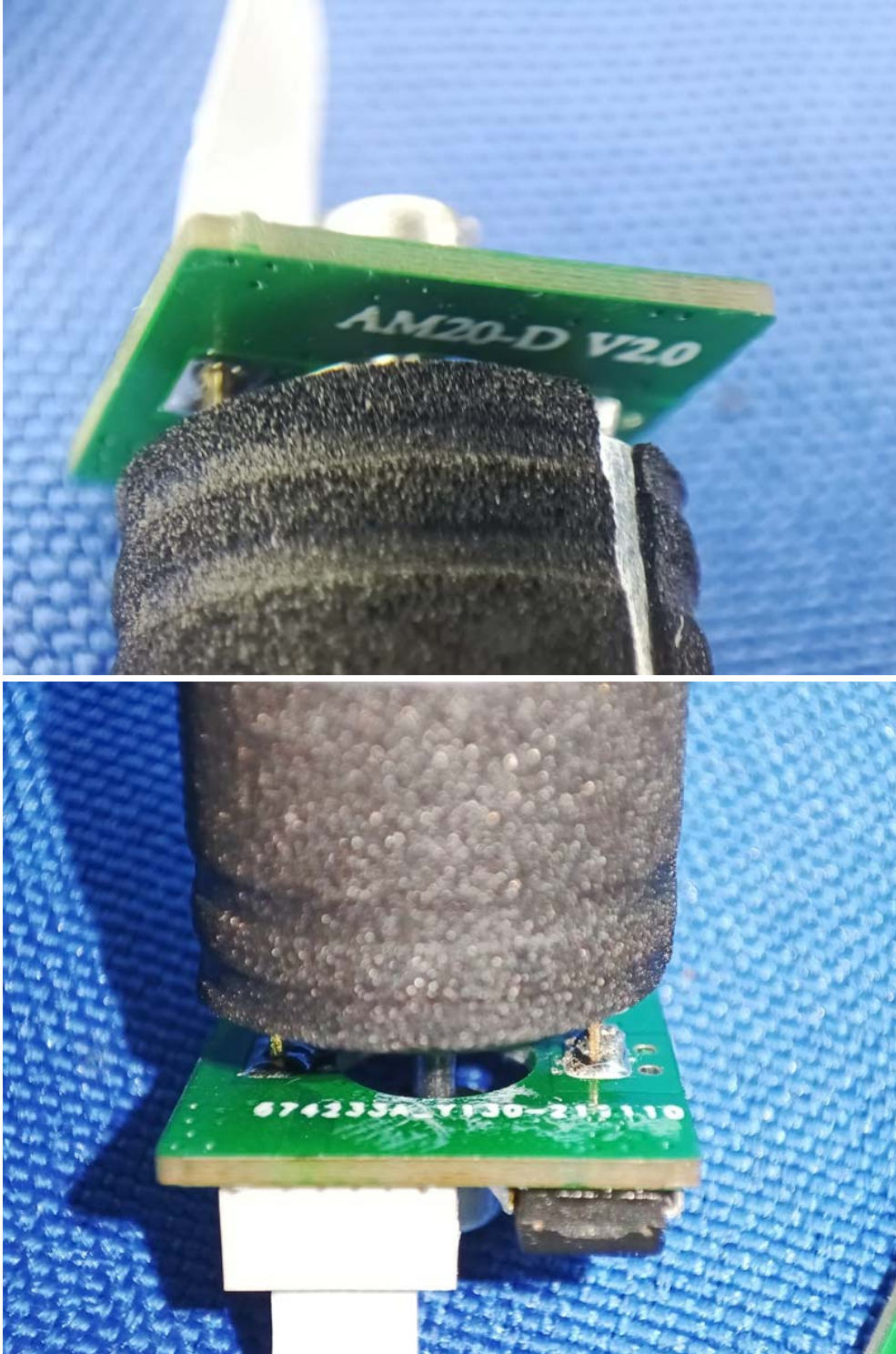


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Inside View- Motor L20A



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Inside View- Motor L20A



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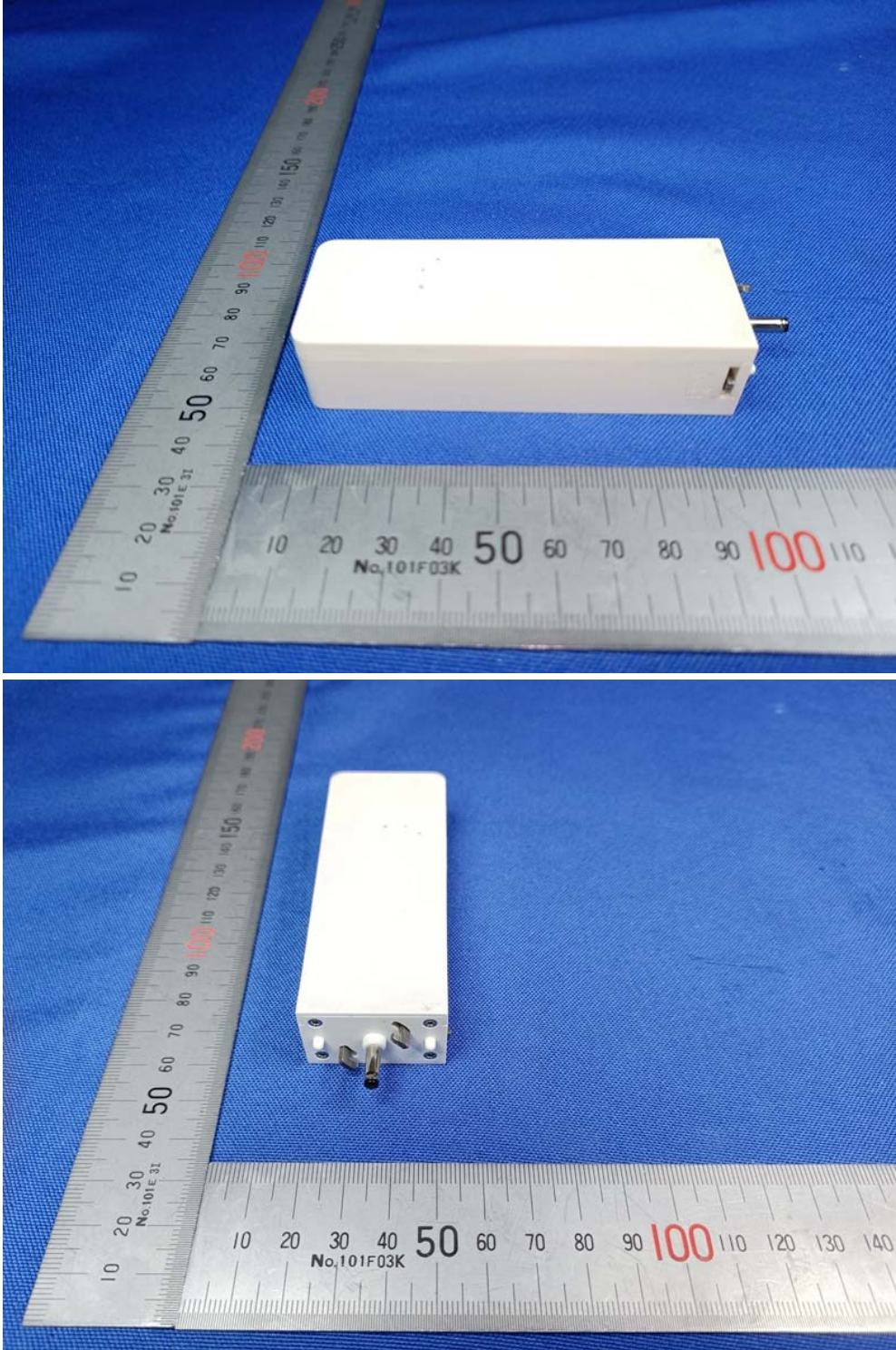
Outside View



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Outside View

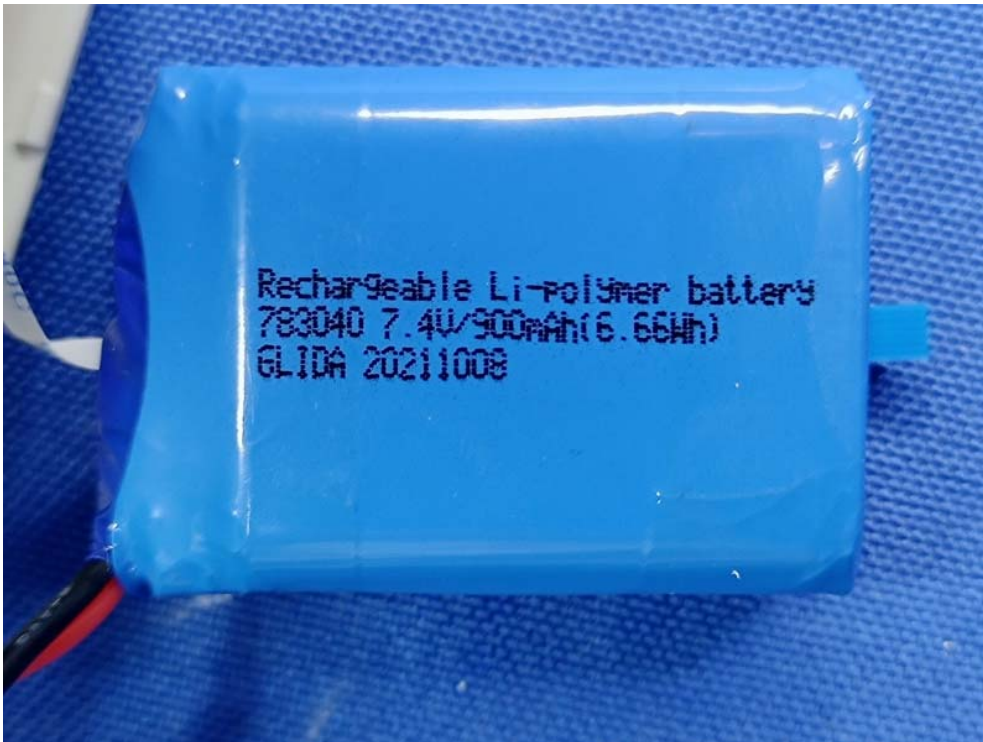


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Inside View



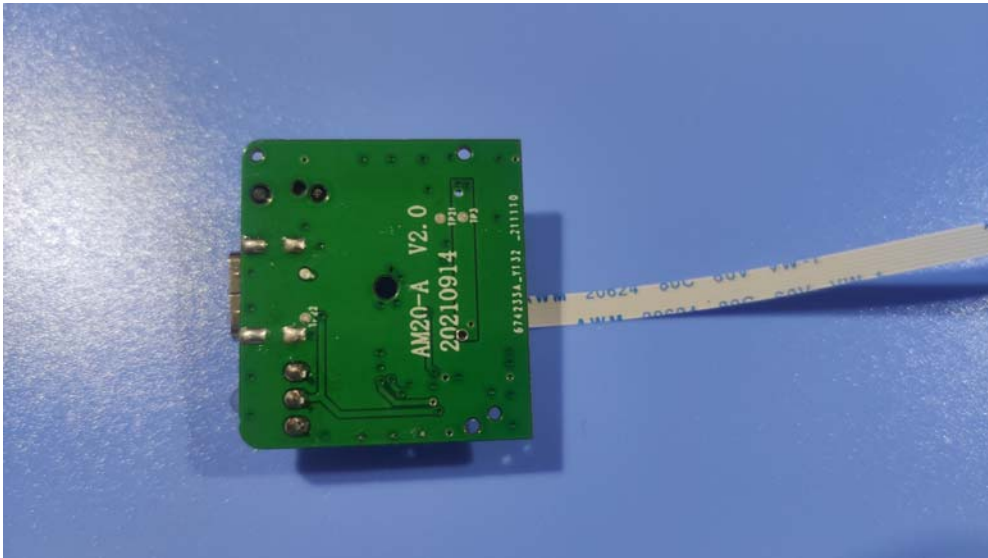
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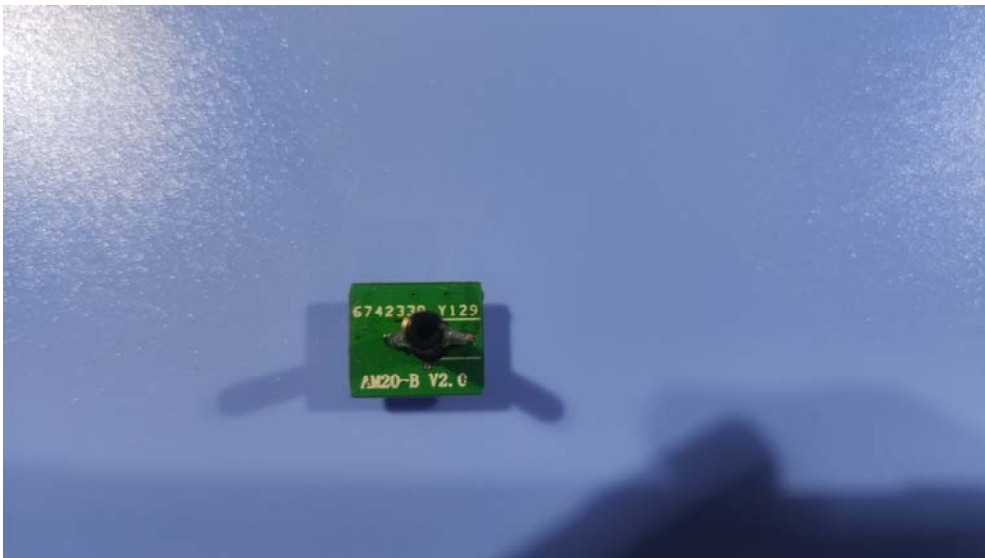
Inside View



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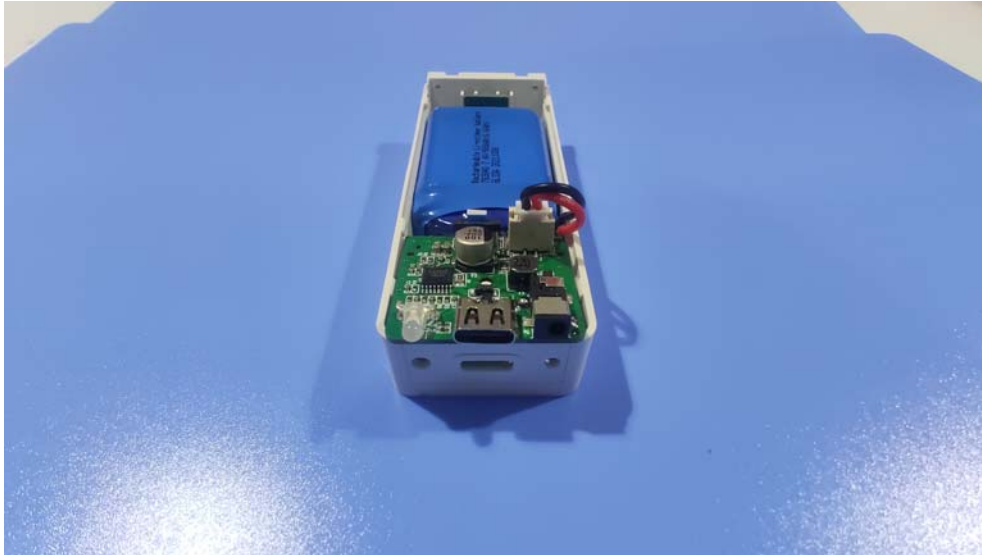
Inside View



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Inside View



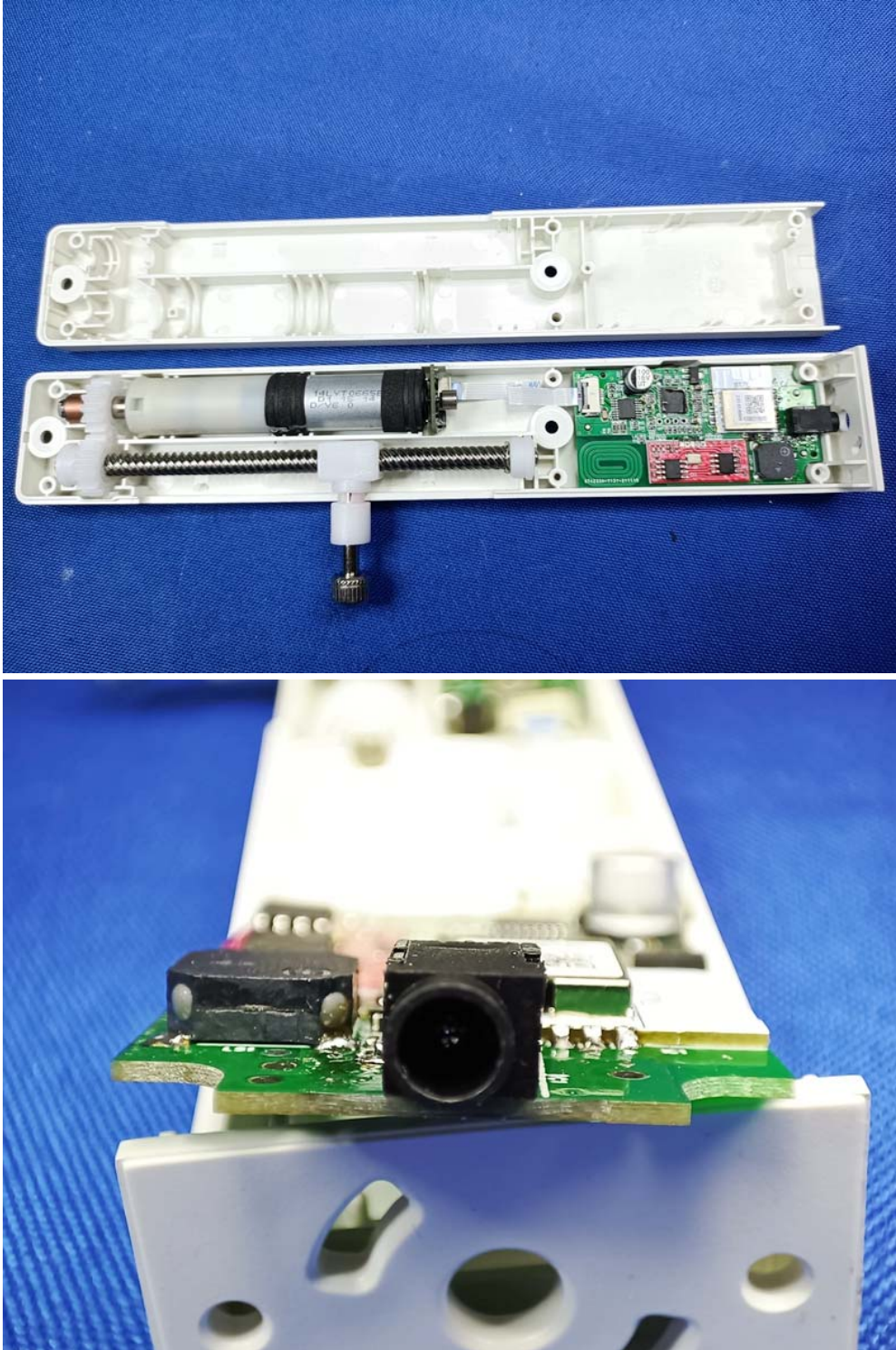
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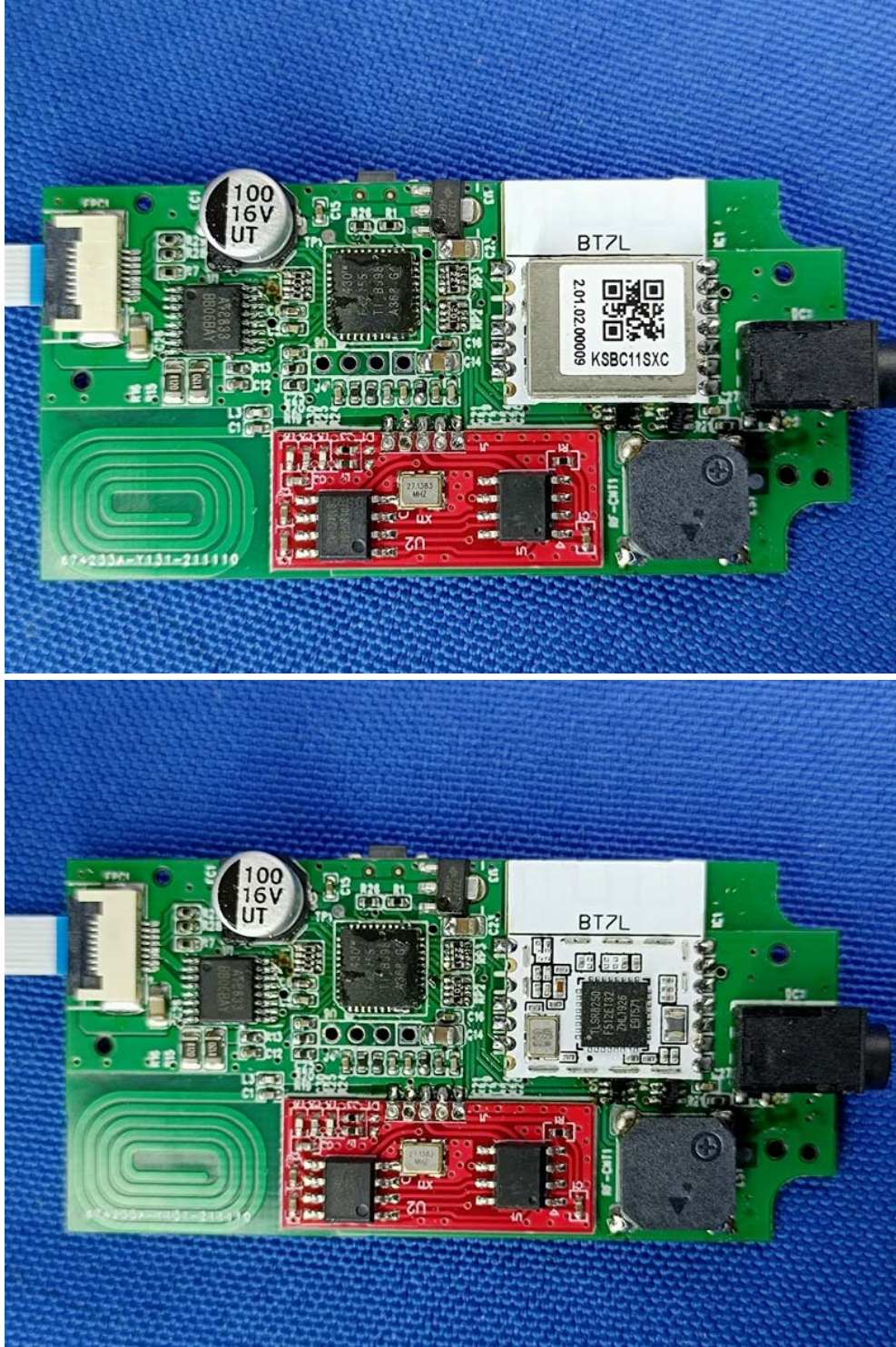
Inside View-Motor L20B



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Inside View- Motor L20B

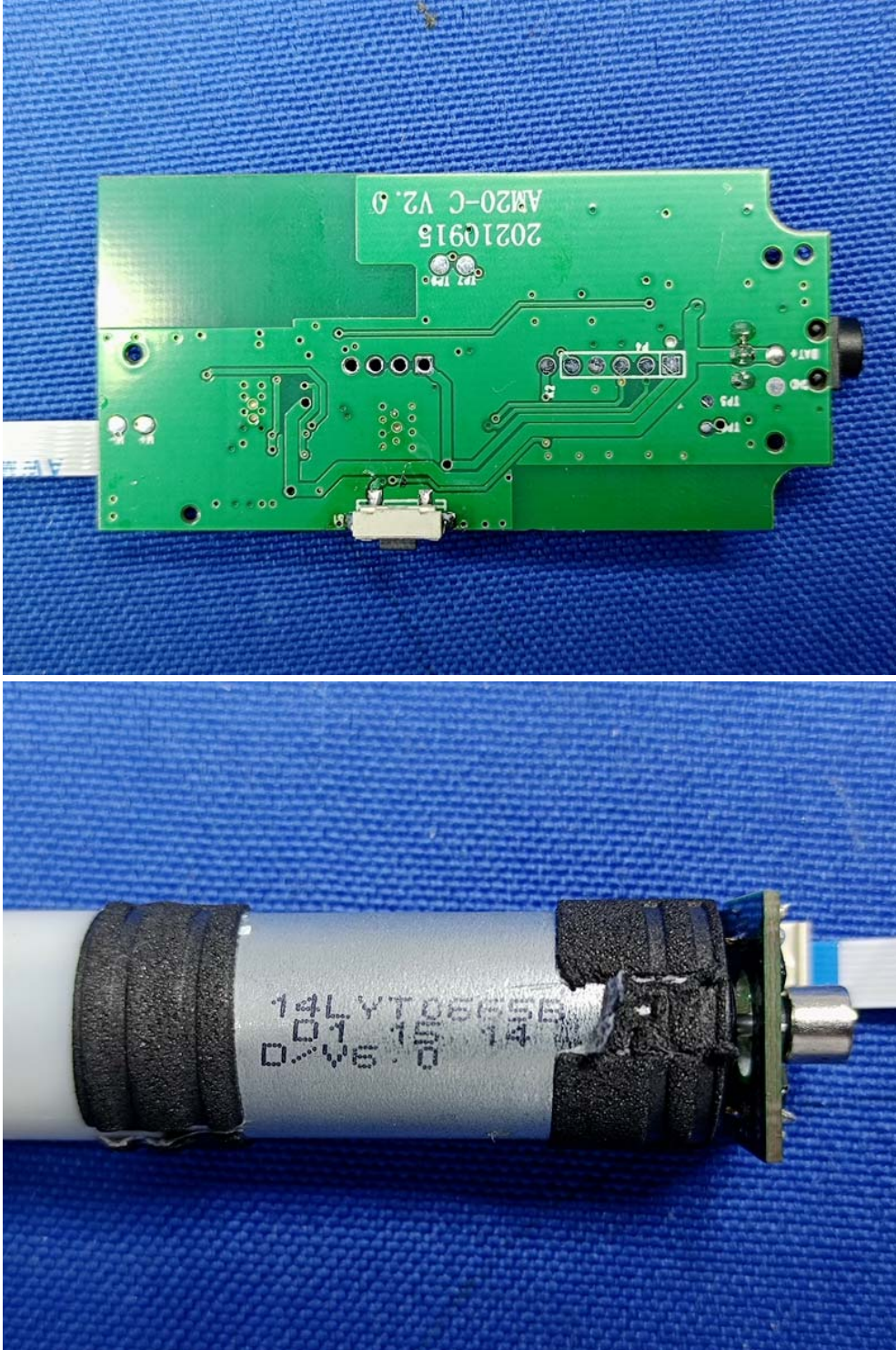


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Inside View- Motor L20B



--End of the report--

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