

TECHNICAL REPORT



Report No.: TW2203023E
File reference No.: 2022-03-25

Applicant: Ningbo Tongzhi Technology Co.,Ltd

Product: SMART LOCK

Model No.: B3

Trademark: Tongzhi

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

Terry Tang

Terry Tang

Manager

Dated: March 25, 2022

**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



Test Report Conclusion

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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: Ningbo Tongzhi Technology Co.,Ltd
Address: Room 104-3, Building 8,299 Siming East RD. Jiangkou Street, Fenghua District Ningbo City Zhejiang China
Telephone: 13586945777
Fax: --

1.3 Description of EUT

Product: SMART LOCK
Manufacturer: Ningbo Tongzhi Technology Co.,Ltd
Address: Room 104-3, Building 8,299 Siming East RD. Jiangkou Street, Fenghua District Ningbo City Zhejiang China
Trademark: Tongzhi
Model Number: B3
Additional Model Name: N/A
Hardware Version: V4.1
Software Version: V2.24
Serial No.:



Rating: DC6.0V (4pc 1.5V AAA batteries) or DC5V from external USB power supply
Modulation Type: GFSK, Bluetooth Low Energy (BLE)
Operation Frequency: 2402-2480MHz
Channel Separate: 2MHz
Channel Number: 40

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Antenna Designation Ceramic antenna with gain -4.44dBi Max (Get from the antenna specification)

1.4 Submitted Sample: 2 pcs

1.5 Test Duration

2022-03-02 to 2022-03-25

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

Andy Xing

Print Name: Andy Xing

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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	2021-06-18	2022-06-17
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	2022-01-05	2023-01-04

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 15.203	Antenna Requirement	Pass	Complies
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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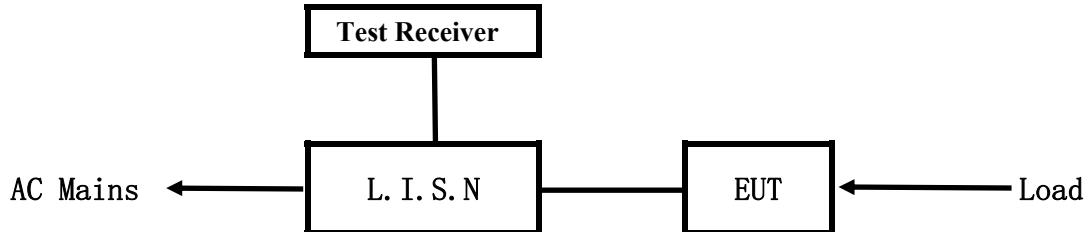
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5. Power Line Conducted Emission Test

5.1 Schematics of the test



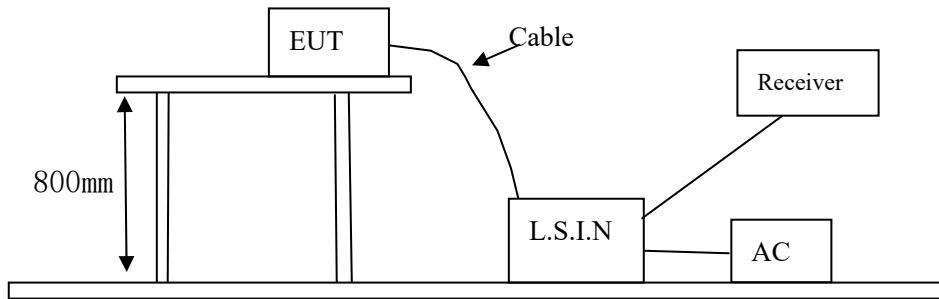
EUT: Equipment Under Test

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.

40 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
SMART LOCK	Ningbo Tongzhi Technology Co.,Ltd	B3	2A6GE-B3

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A; 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 μ 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

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

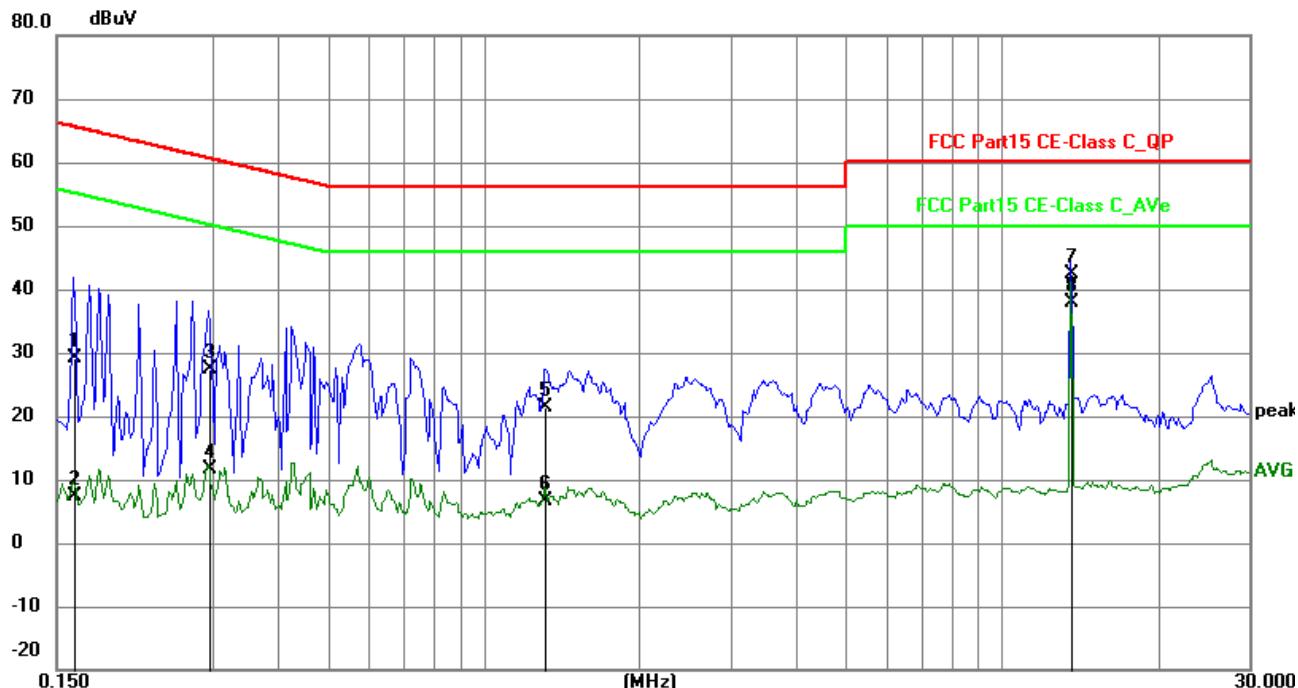
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Keep Transmitting

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	0.1617	19.25	9.78	29.03	65.38	-36.35	QP	P
2	0.1617	-2.32	9.78	7.46	55.38	-47.92	AVG	P
3	0.2943	17.71	9.76	27.47	60.40	-32.93	QP	P
4	0.2943	1.89	9.76	11.65	50.40	-38.75	AVG	P
5	1.3161	11.49	9.79	21.28	56.00	-34.72	QP	P
6	1.3161	-3.23	9.79	6.56	46.00	-39.44	AVG	P
7	13.5612	32.13	10.32	42.45	60.00	-17.55	QP	P
8	13.5612	27.54	10.32	37.86	50.00	-12.14	AVG	P

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

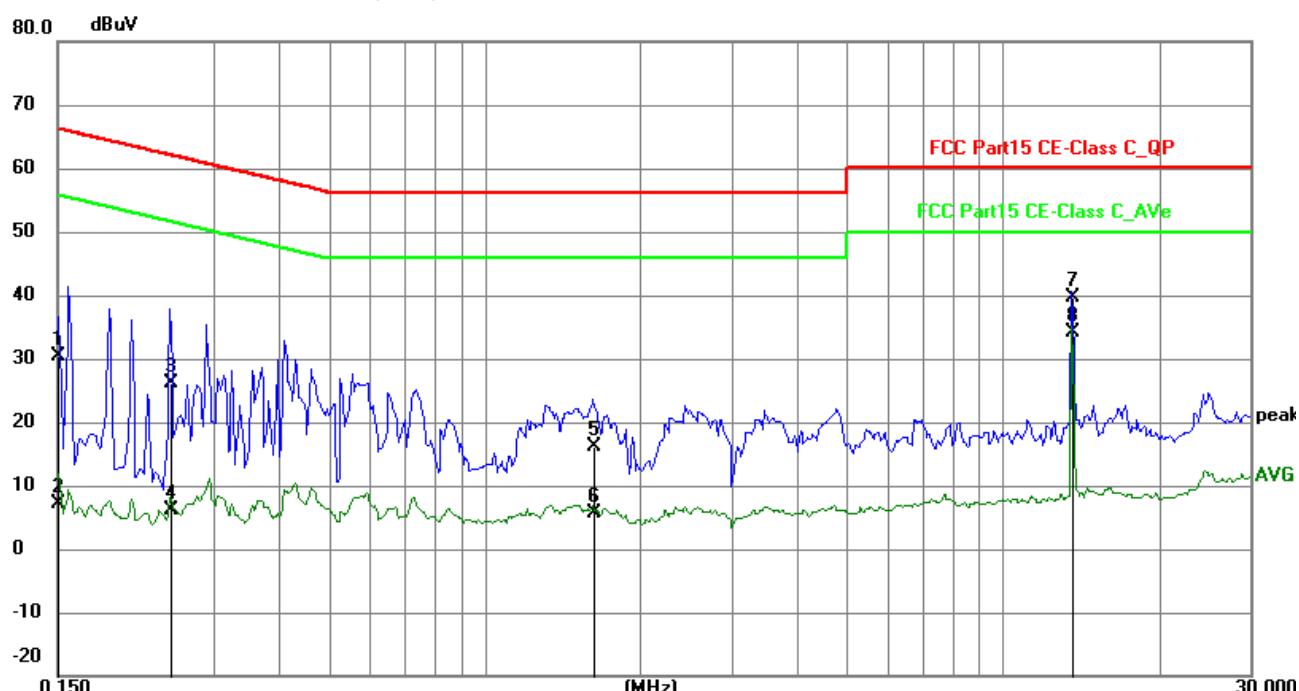
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Keep Transmitting

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	0.1500	20.61	9.79	30.40	66.00	-35.60	QP	P
2	0.1500	-2.67	9.79	7.12	56.00	-48.88	AVG	P
3	0.2475	16.48	9.75	26.23	61.84	-35.61	QP	P
4	0.2475	-3.71	9.75	6.04	51.84	-45.80	AVG	P
5	1.6242	6.25	9.80	16.05	56.00	-39.95	QP	P
6	1.6242	-4.16	9.80	5.64	46.00	-40.36	AVG	P
7	13.5612	29.28	10.32	39.60	60.00	-20.40	QP	P
8	13.5612	23.78	10.32	34.10	50.00	-15.90	AVG	P

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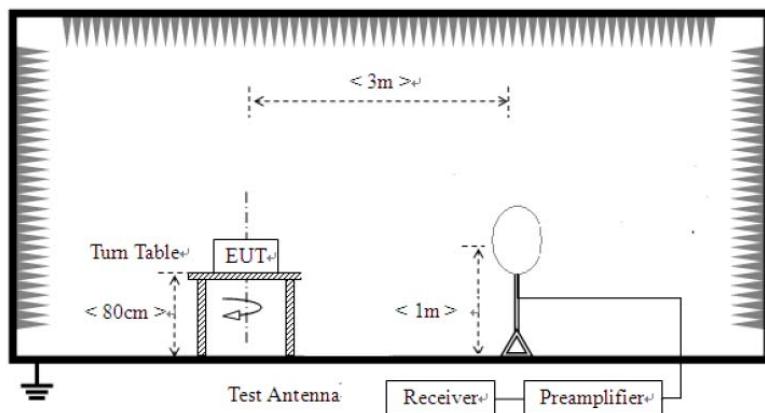
6.0 Radiated Emission Test

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



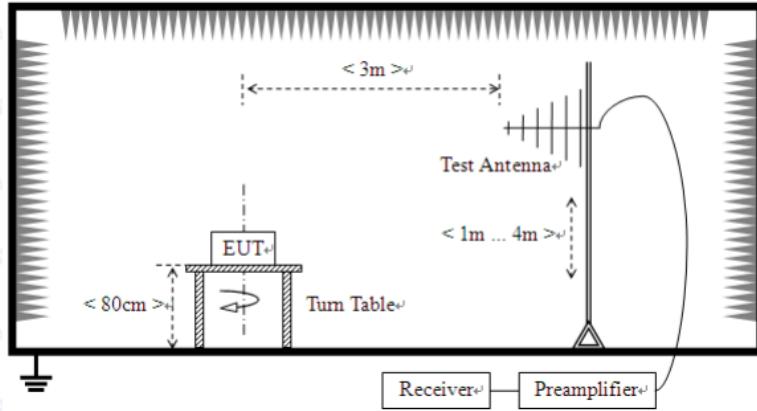
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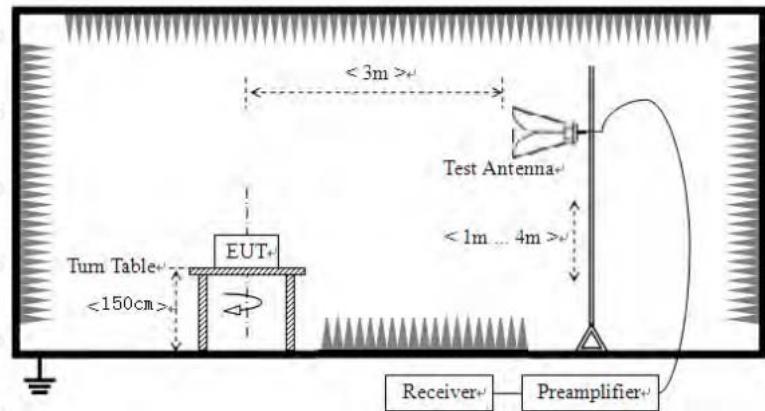
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For radiated emissions from 30MHz to1GHz



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 μ V/m)
0.009-0.490	3	$20\log(2400/F(\text{kHz})) + 40\log(300/3)$
0.490-1.705	3	$20\log(24000/F(\text{kHz})) + 40\log(30/3)$
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:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
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.
5. New Battery was used during tests.

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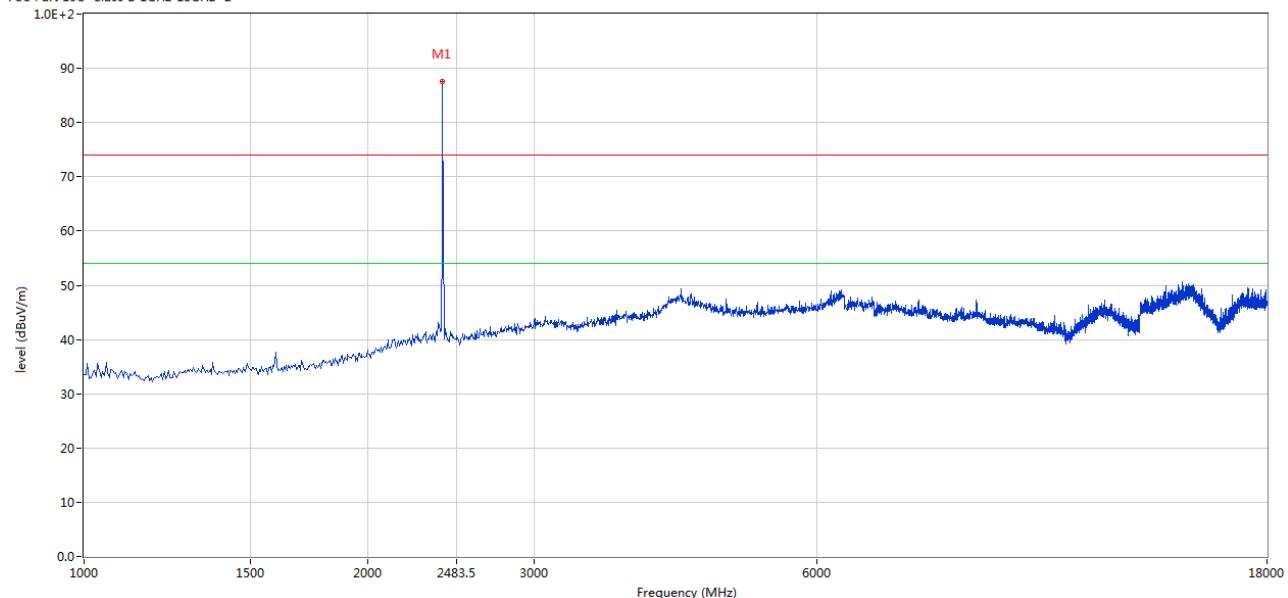
6.5 Test result

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	2401.732	87.69	-3.57	114.0	-26.31	Peak	115.00	100	Horizontal	Pass

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

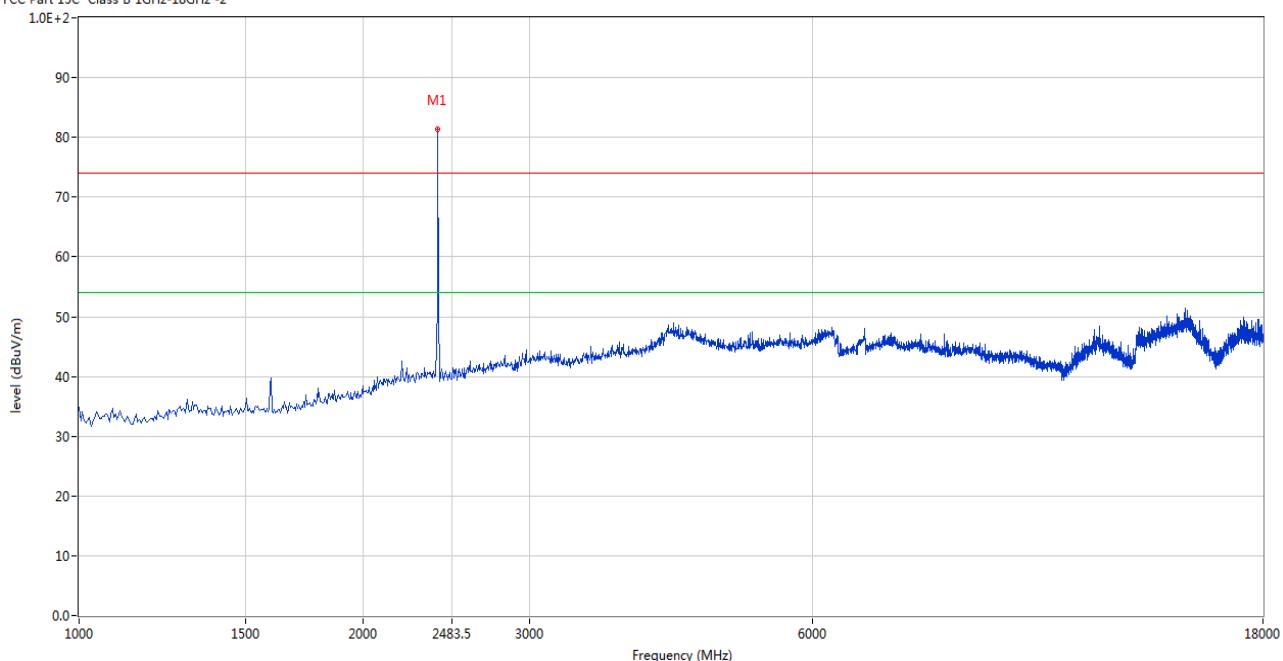
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Vertical

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	2401.732	81.30	-3.57	114.0	-32.70	Peak	180.00	100	Vertical	Pass

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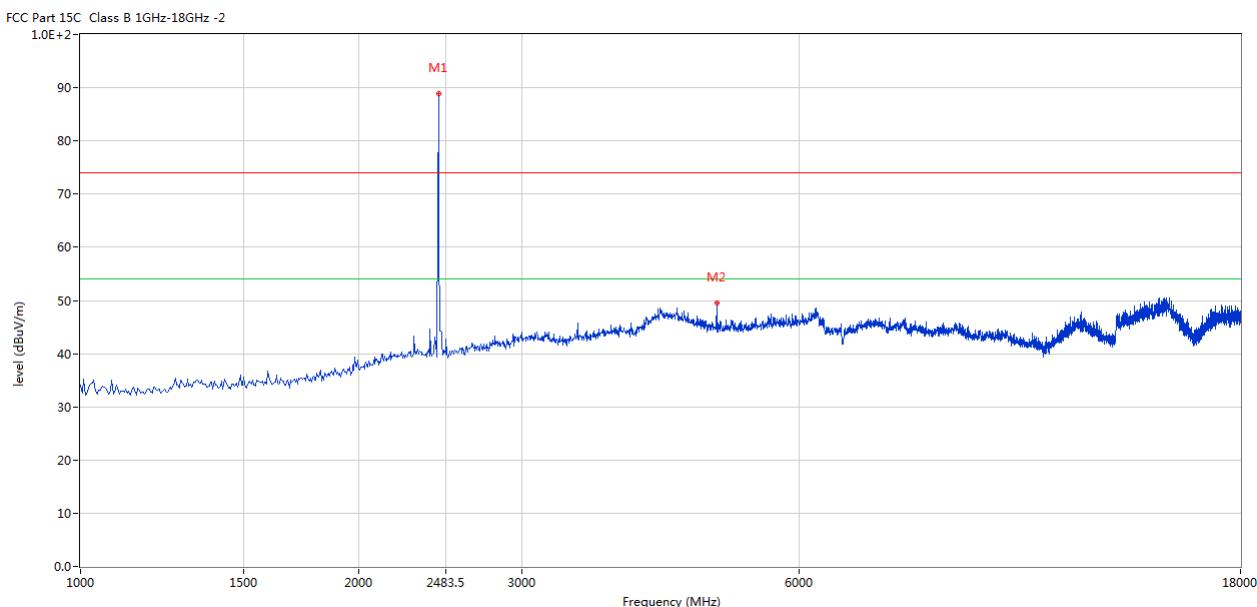
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Please refer to the following test plots for details: Middle Channel-2440MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2439.732	88.86	-3.57	114.0	-25.14	Peak	131.00	100	Horizontal	Pass
2	4879.280	49.50	3.20	74.0	-24.50	Peak	131.00	100	Horizontal	Pass

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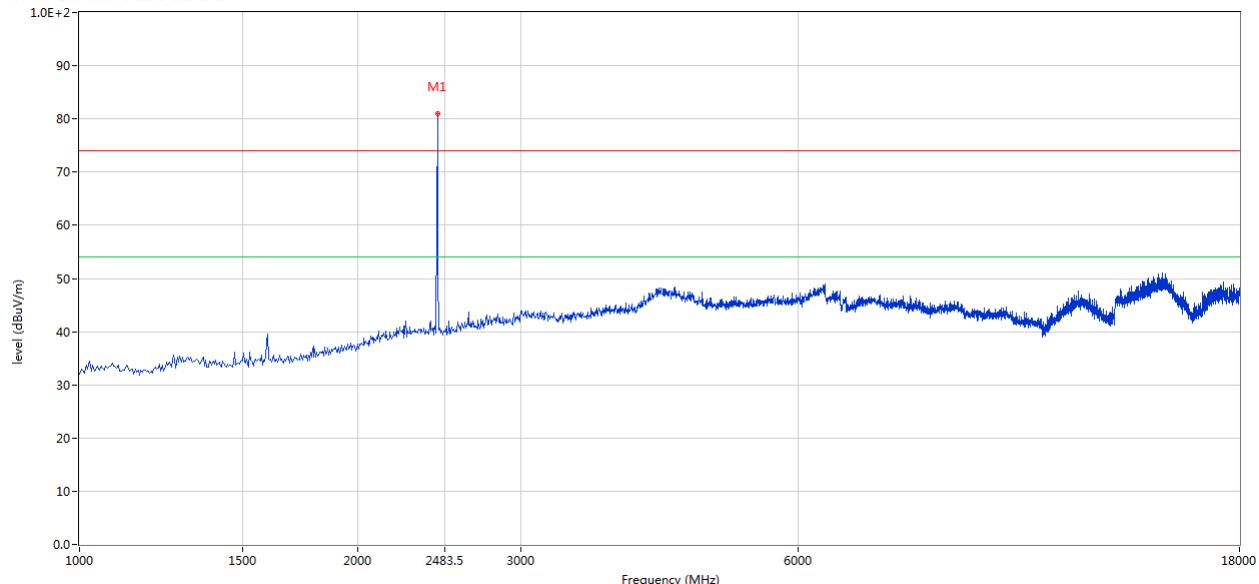
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Vertical

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	2439.732	80.99	-3.57	114.0	-33.01	Peak	192.00	100	Vertical	Pass

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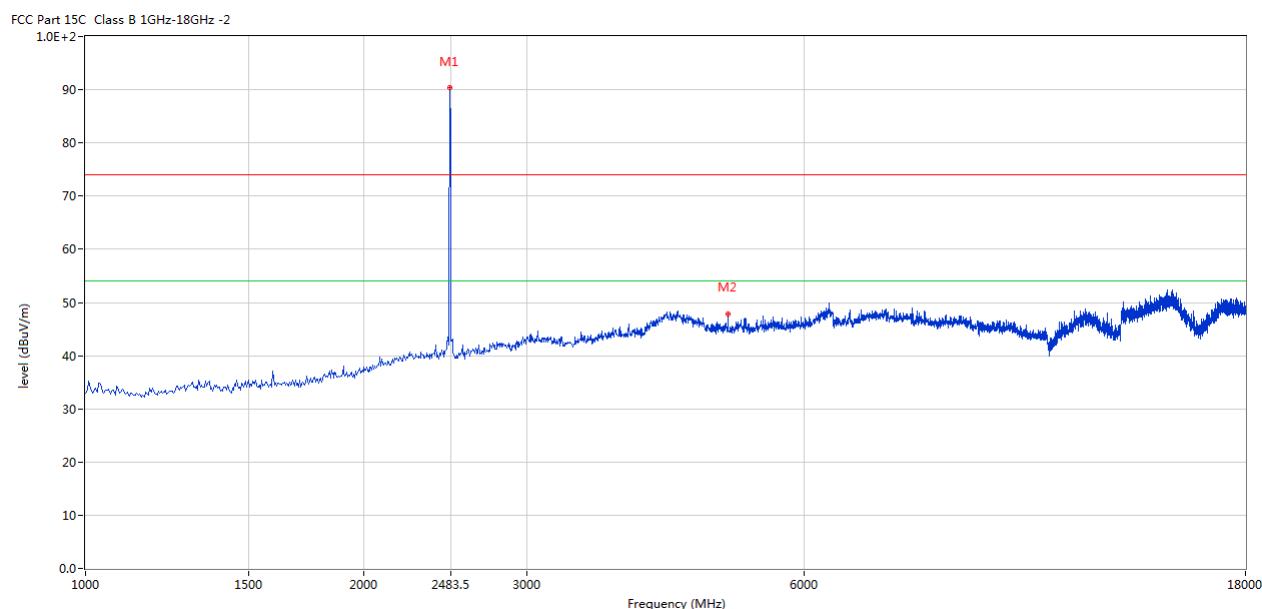
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.732	90.48	-3.57	114.0	-23.52	Peak	131.00	100	Horizontal	Pass
2	4960.010	47.88	3.36	74.0	-26.12	Peak	344.00	100	Horizontal	Pass

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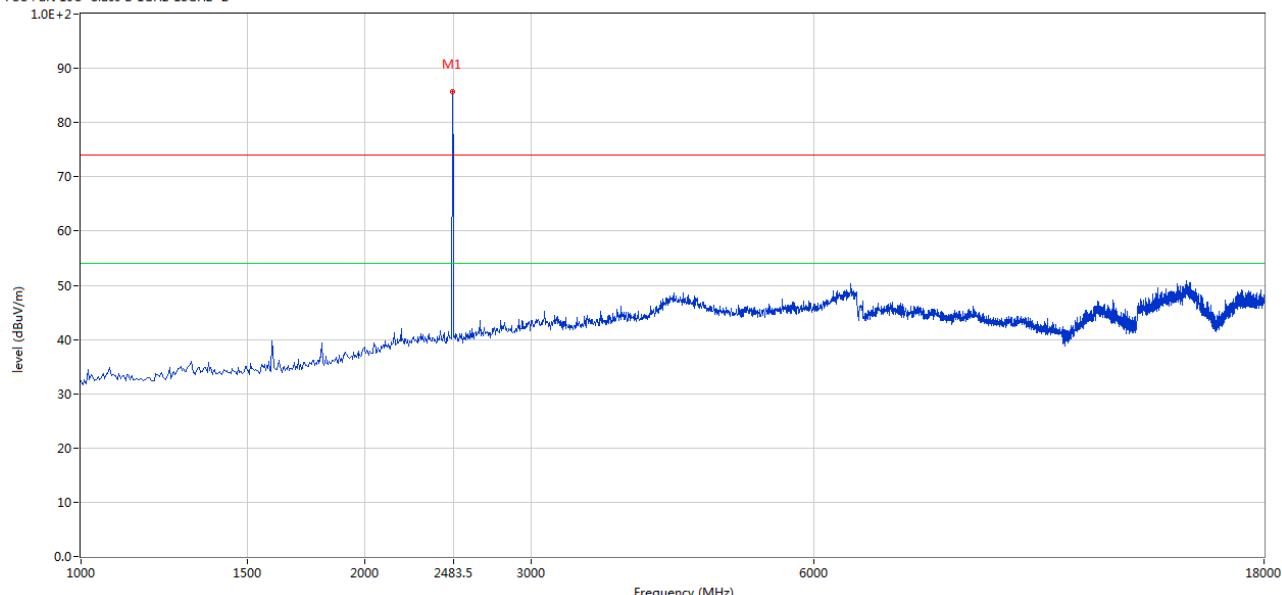
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Vertical

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	2479.732	86.62	-3.57	114.0	-27.38	Peak	207.00	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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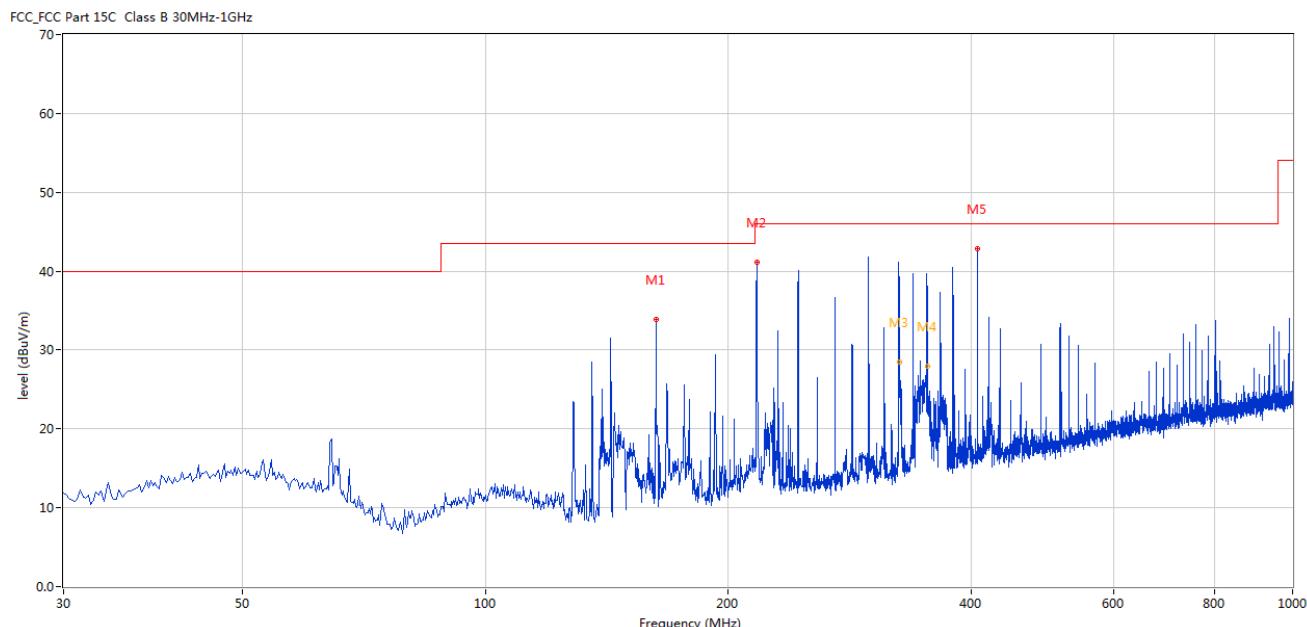
B. General Radiated Emission Data

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

EUT set Condition: Keep Tx transmitting

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	162.614	33.88	-16.38	43.5	-9.62	Peak	207.00	100	Horizontal	Pass
2	216.921	41.09	-13.51	46.0	-4.91	Peak	201.00	100	Horizontal	Pass
3	325.445	41.22	-10.37	46.0	-4.78	Peak	201.00	100	Horizontal	Pass
3*	325.445	28.41	-10.37	46.0	-17.59	QP	201.00	100	Horizontal	Pass
4	352.677	39.65	-9.46	46.0	-6.35	Peak	201.00	125	Horizontal	Pass
4*	352.677	28.00	-9.46	46.0	-18.00	QP	201.00	125	Horizontal	Pass
5	406.993	42.83	-8.61	46.0	-3.17	Peak	201.00	100	Horizontal	Pass

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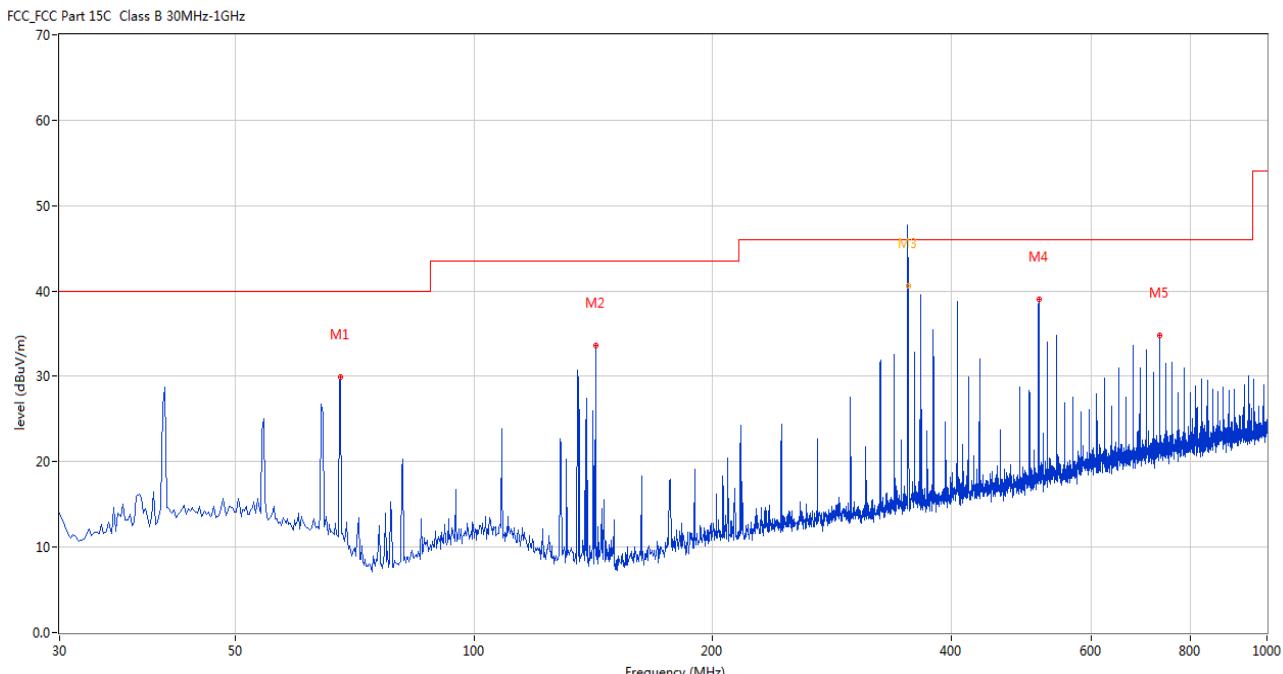


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

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	67.821	29.95	-14.55	40.0	-10.05	Peak	249.00	100	Vertical	Pass
2	142.249	33.62	-17.31	43.5	-9.88	Peak	281.00	100	Vertical	Pass
3	352.595	47.28	-9.46	46.0	1.28	Peak	276.00	113	Vertical	N/A
3*	352.595	40.62	-9.46	46.0	-5.38	QP	276.00	113	Vertical	Pass
4	515.364	39.02	-6.86	46.0	-6.98	Peak	273.00	100	Vertical	Pass
5	732.104	34.76	-3.66	46.0	-11.24	Peak	252.00	100	Vertical	Pass

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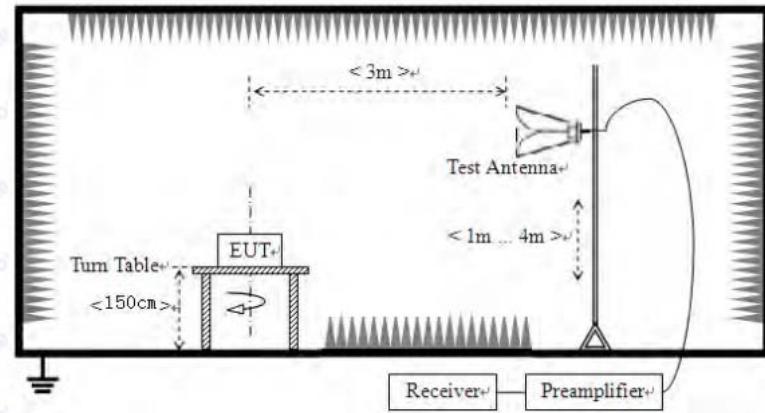


7. Band Edge

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 height 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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7.6 Test Result

Product:	SMART LOCK		Polarity	Horizontal						
Mode	Keeping Transmitting		Test Voltage	DC6.0V						
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
1	2401.737	86.93	-3.57	74.0	12.93	Peak	131.00	100	Horizontal	N/A
2	2400.087	66.01	-3.57	74.0	-7.99	Peak	308.00	100	Horizontal	Pass
2**	2400.087	49.14	-3.57	54.0	-4.86	AV	308.00	100	Horizontal	Pass
3	2390.070	40.45	-3.53	74.0	-33.55	Peak	126.00	100	Horizontal	Pass

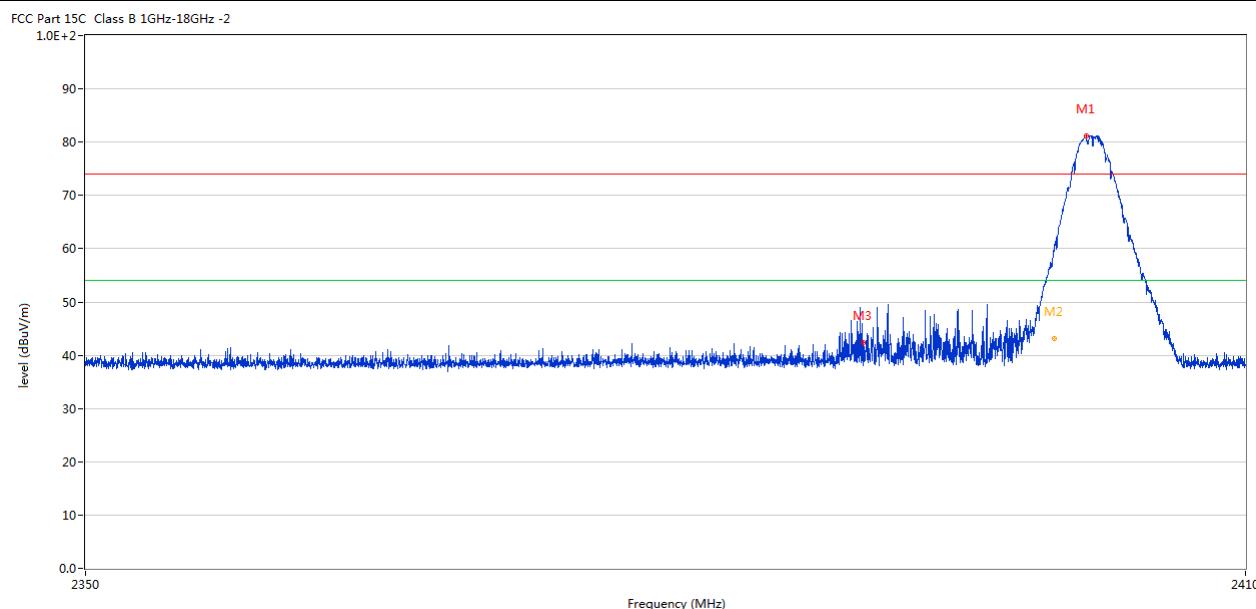
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Product:	SMART LOCK	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC6.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.662	81.26	-3.57	74.0	7.26	Peak	175.00	100	Vertical	N/A
2	2400.012	60.36	-3.57	74.0	-13.64	Peak	180.00	100	Vertical	Pass
2**	2400.012	43.13	-3.57	54.0	-10.87	AV	180.00	100	Vertical	Pass
3	2390.055	42.44	-3.53	74.0	-31.56	Peak	123.00	100	Vertical	Pass

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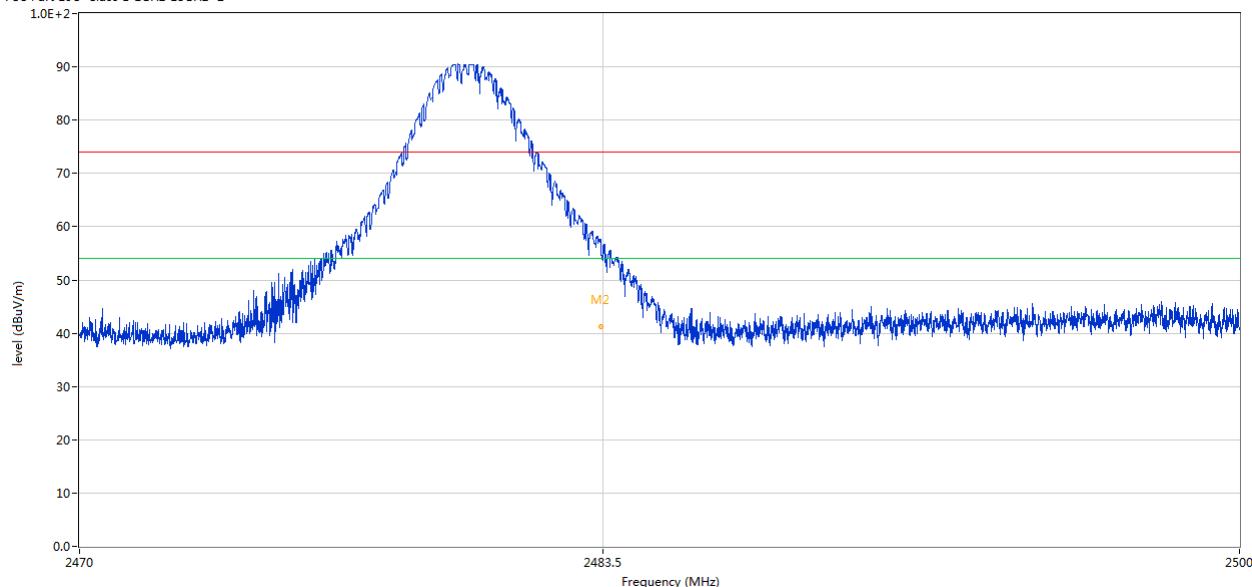
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Product:	SMART LOCK	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC6.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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
1	2479.755	90.39	-3.57	74.0	16.39	Peak	134.00	100	Horizontal	N/A
2	2483.437	57.63	-3.57	74.0	-16.37	Peak	129.00	100	Horizontal	Pass
2**	2483.437	41.15	-3.57	54.0	-12.85	AV	129.00	100	Horizontal	Pass

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Product:	SMART LOCK	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC6.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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

Level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.688	84.69	-3.57	74.0	10.69	Peak	182.00	100	Vertical	N/A
2	2483.459	51.77	-3.57	74.0	-22.23	Peak	182.00	100	Vertical	Pass

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.
 2. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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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 Ceramic antenna with gain -4.44dBi Max.

Test Result: Pass

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9.0 20dB Bandwidth Measurement

Product:	SMART LOCK	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC6.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.070MHz	--	--
<p>Ref Lvl 10 dBm Marker 1 [T1] -1.31 dBm 100 kHz RBW 2.40173246 GHz VBW 300 kHz SWT 5 ms Unit 20 dB</p>			
<p>1MAX</p>			
<p>Date: 23.MAR.2022 15:30:38</p>			

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Product:	SMART LOCK	Test Mode:	Keep transmitting					
Mode	Keeping Transmitting	Test Voltage	DC6.0V					
Temperature	24 deg. C,	Humidity	56% RH					
Test Result:	Pass	Detector	PK					
20dB Bandwidth	1.070MHz	--	--					
Ref Lvl Marker 1 [T1] RBW 100 kHz RF Att 20 dB								
-0.80 dBm VBW 300 kHz								
10 dBm SWT 5 ms Unit dBm								
<div style="display: flex; justify-content: space-between; width: 100%;"> 1MAX A </div>								
2.43973246 GHz ▼1 [T1] -0.80 dBm								
2.43973246 GHz OPE 2.43973246 GHz								
2.43973246 GHz ▼T1 [T1] -15.21 dBm								
2.43973246 GHz ▼T2 [T1] -15.26 dBm								
2.43973246 GHz 1MA 2.44051403 GHz								
Center 2.44 GHz 300 kHz/ Span 3 MHz								
Date: 23.MAR.2022 15:32:20								

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Product:	SMART LOCK	Test Mode:	Keep transmitting					
Mode	Keeping Transmitting	Test Voltage	DC6.0V					
Temperature	24 deg. C,	Humidity	56% RH					
Test Result:	Pass	Detector	PK					
20dB Bandwidth	1.070MHz	--	--					
Ref Lvl Marker 1 [T1] -0.58 dBm 100 kHz 2.47973246 GHz 300 kHz SWT 5 ms Unit dBm								
<p>The graph displays a spectrum analysis plot. The y-axis represents power in dBm, ranging from -90 to 10. The x-axis represents frequency in GHz, with a center frequency of 2.48 GHz and a span of 3 MHz. A yellow line represents the signal power. Several markers are indicated: T1 is at -0.58 dBm (2.47973246 GHz), T2 is at -15.17 dBm (2.48051403 GHz), and OPE is at -14.91 dBm (2.47944389 GHz). The plot also shows markers for 1MAX and 1MA.</p>								
Date: 23.MAR.2022 15:34:04								

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

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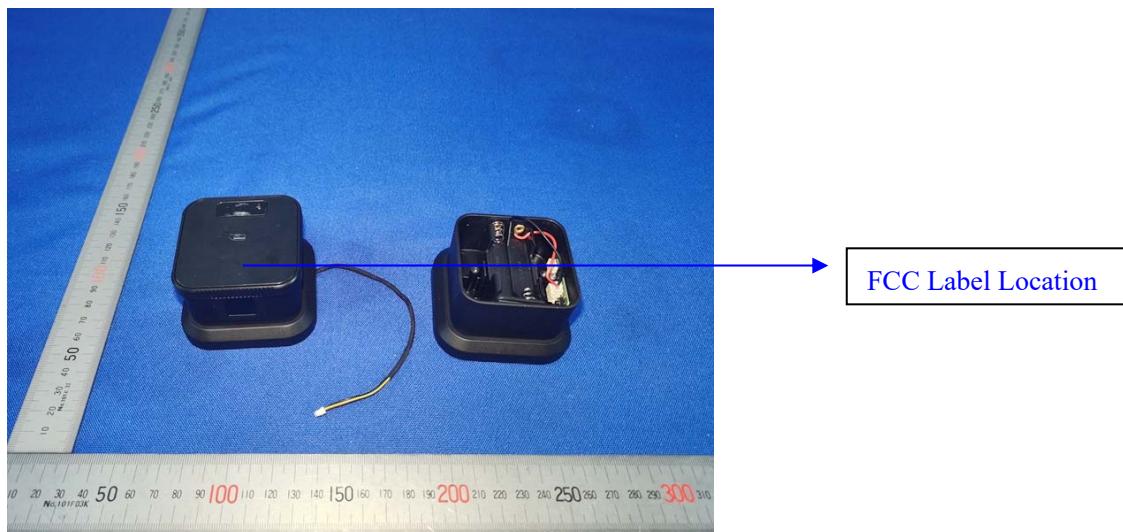


10.0 FCC ID Label

FCC ID: 2A6GE-B3

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



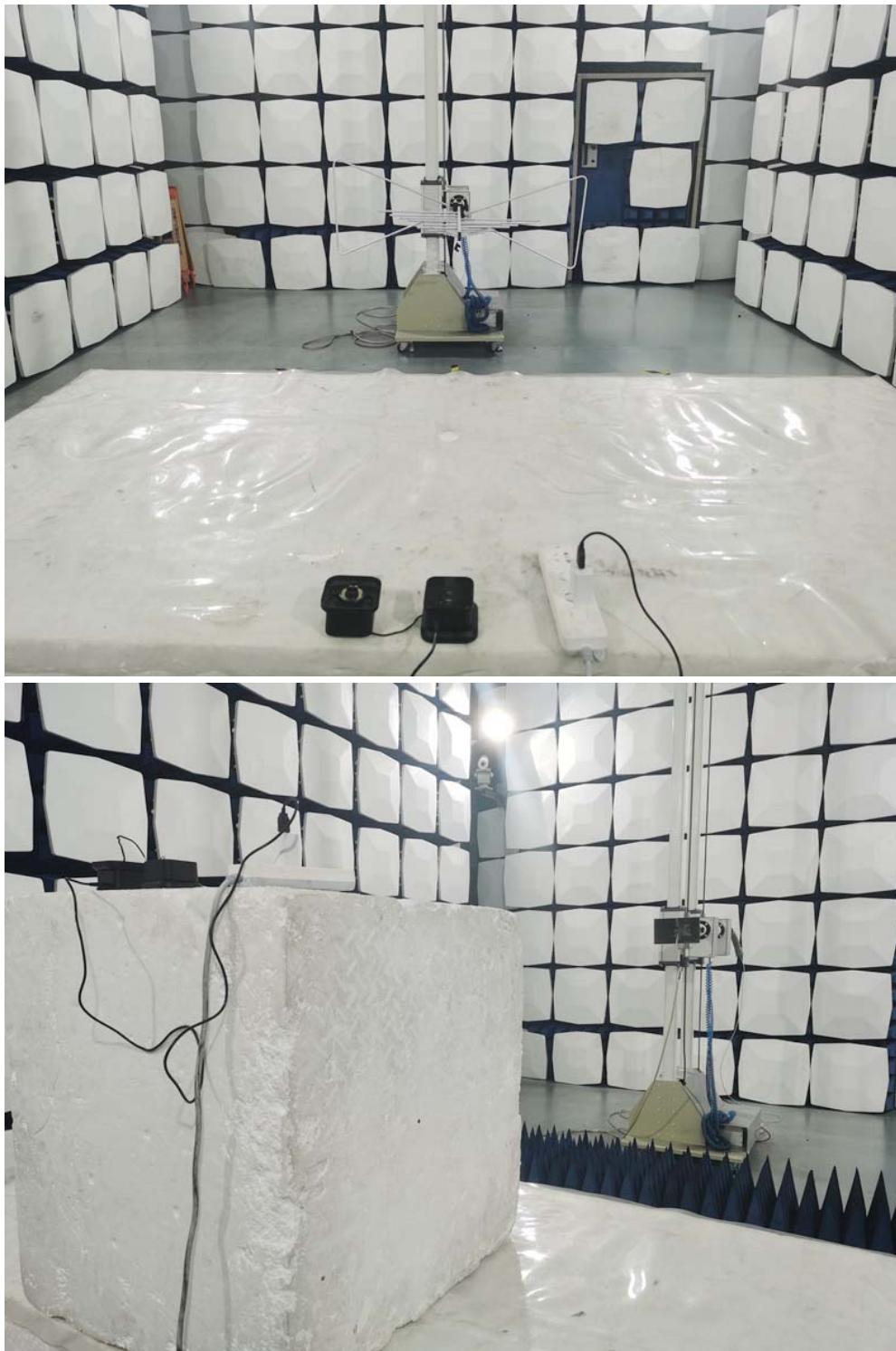
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Radiated emission test view



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11.2 Photographs – EUT

Outside View



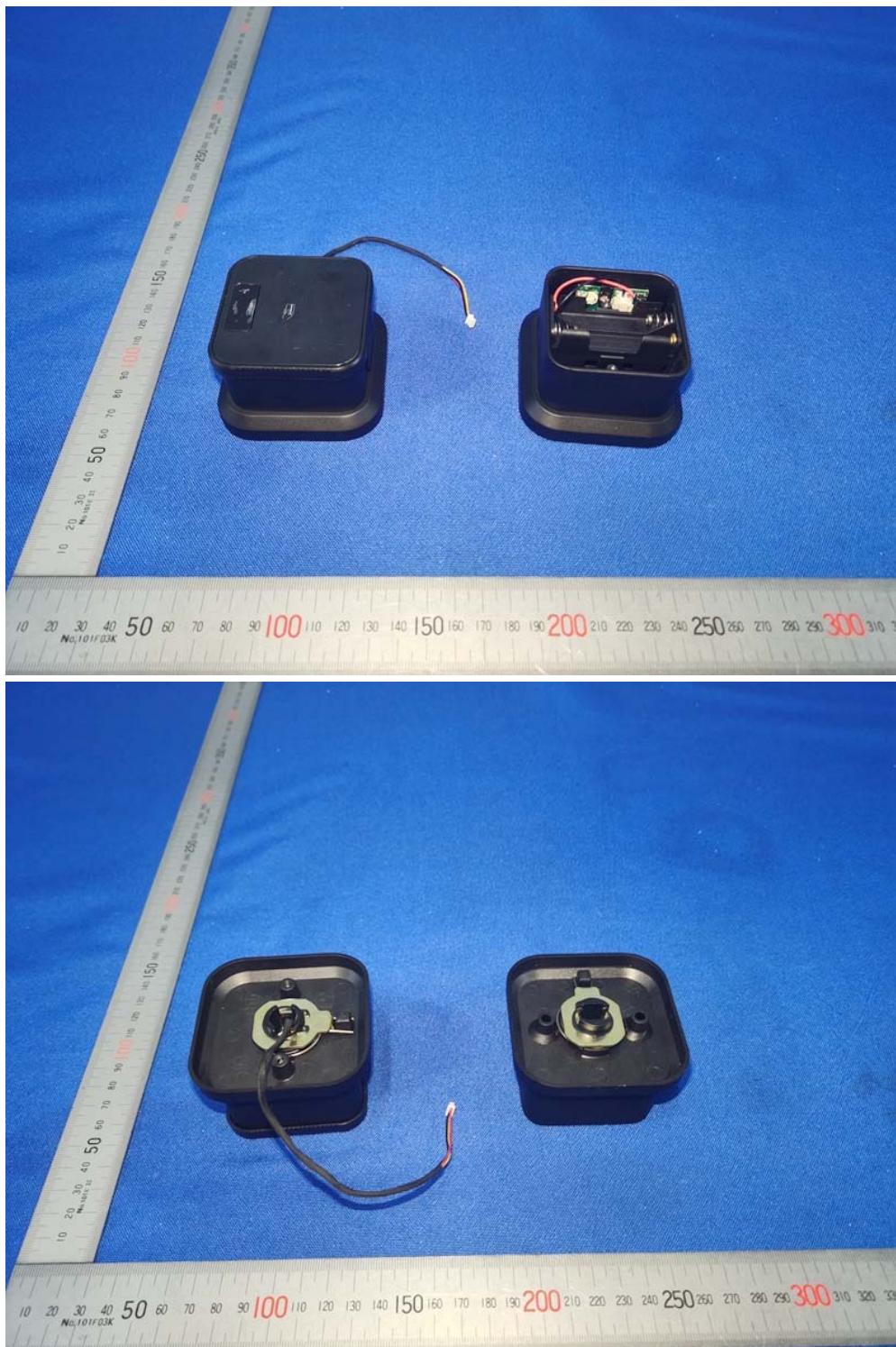
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Outside View



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Outside View



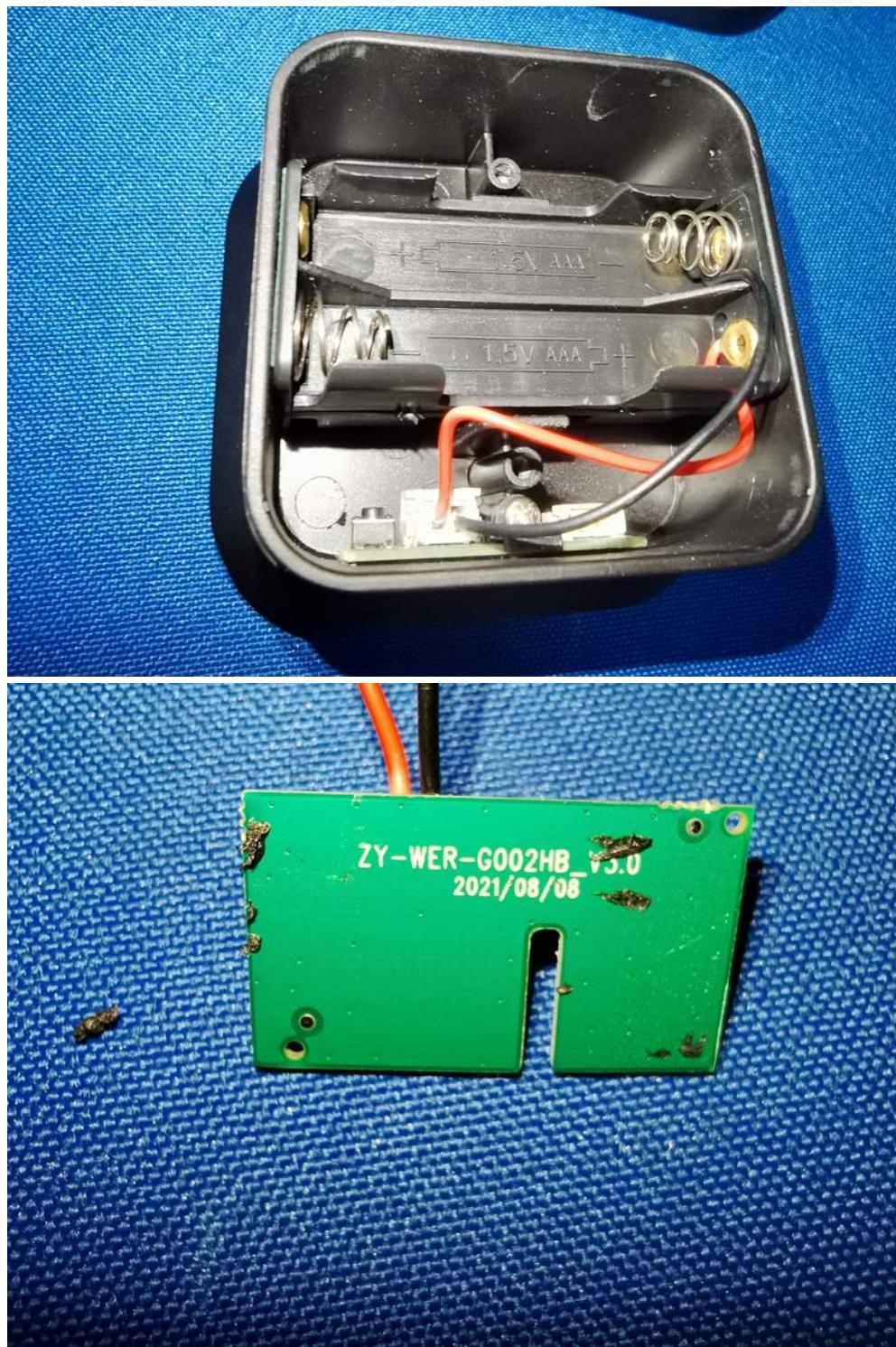
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Inside View



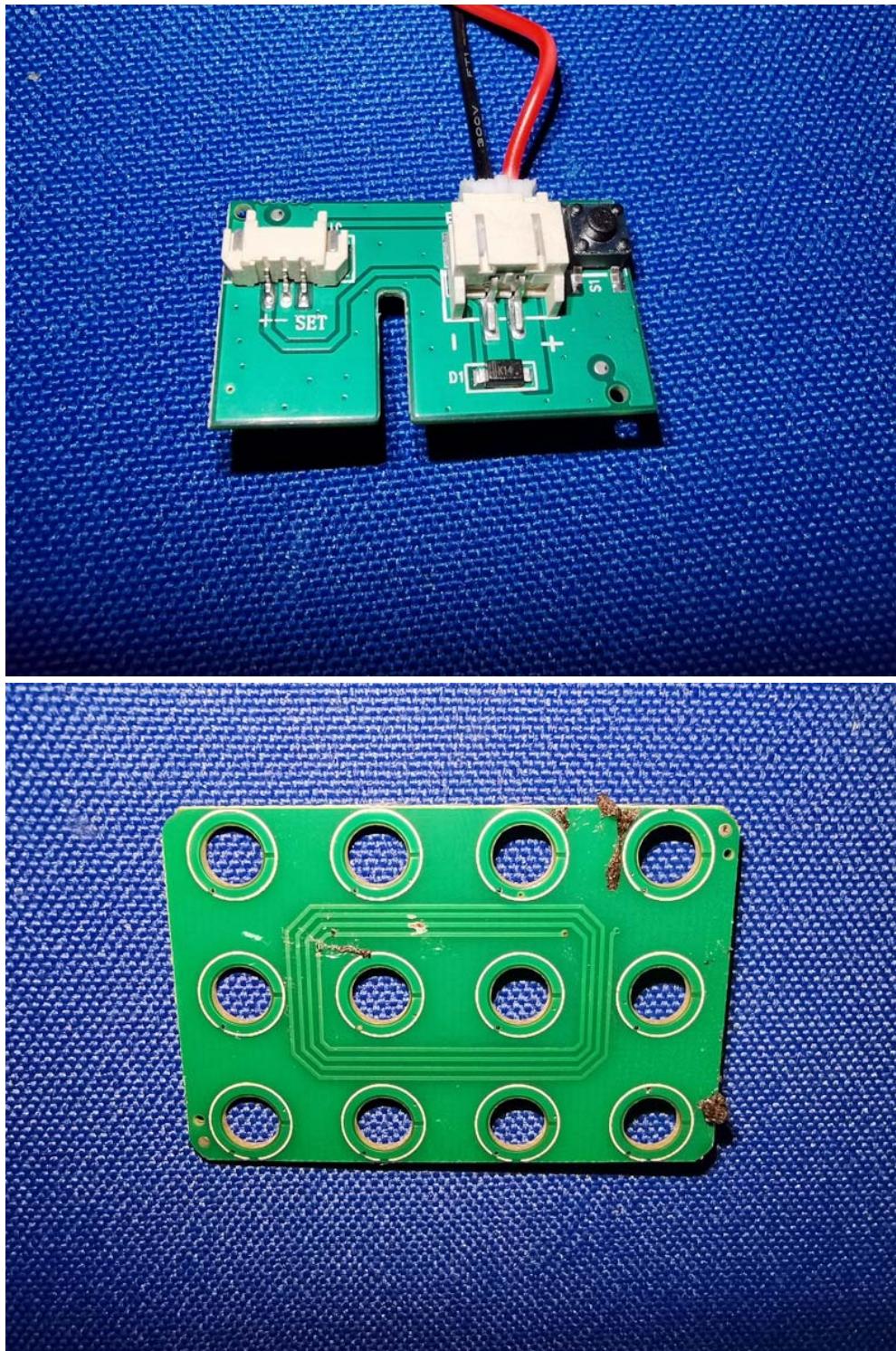
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Inside View



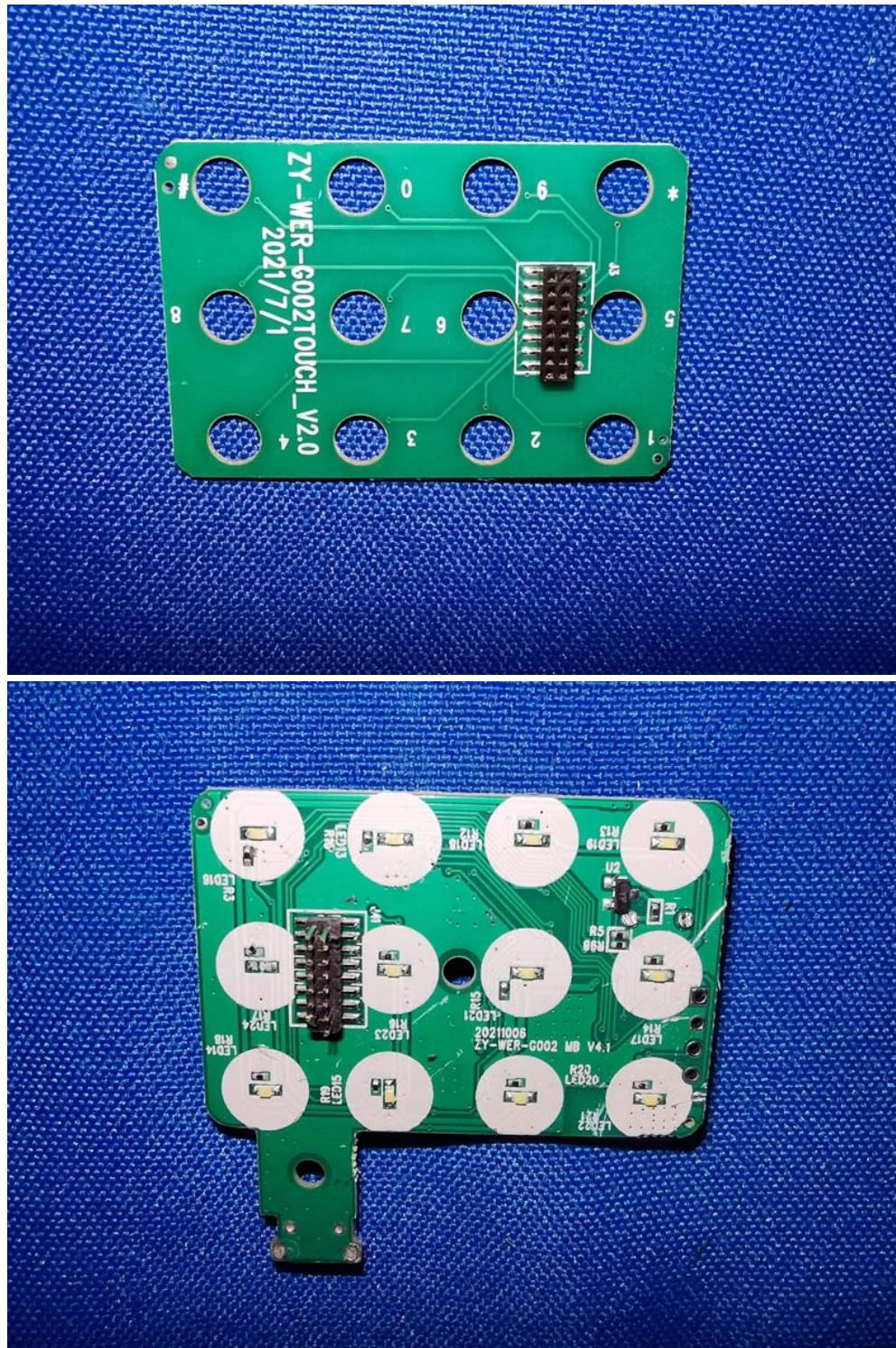
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Inside View



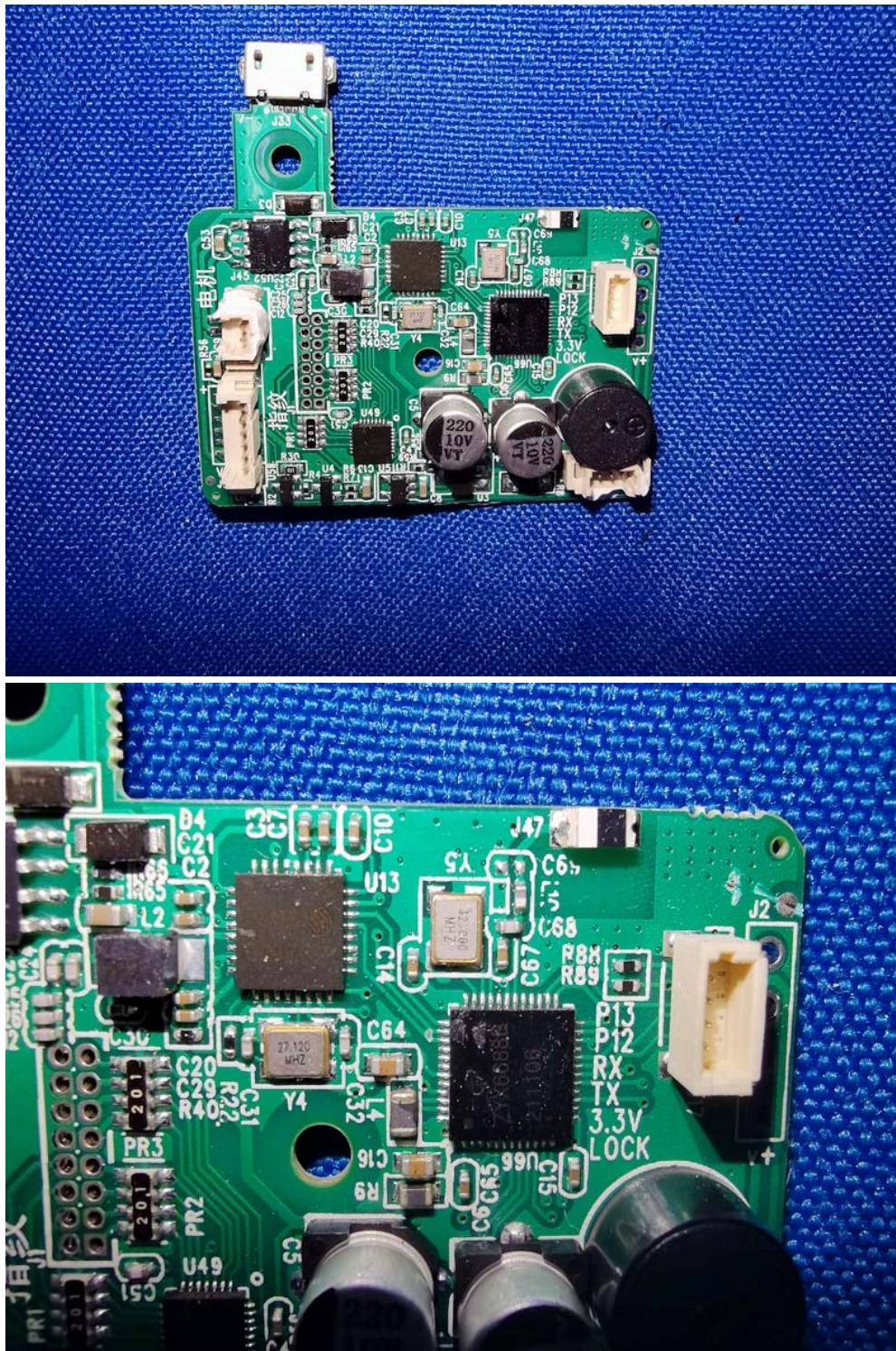
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Inside View



--End of the report--

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