



FCC - TEST REPORT

Report Number : **709502606879-00A** Date of Issue: September 04, 2026

Model : Cubo1

Product Type : IMOU Smart Lock

Applicant : Hangzhou Huacheng Software Technology Co., Ltd.

Address : 15th Floor, Building 3, No. 582, Liye Road, Changhe Street, Binjiang District, China

Manufacturer : Hangzhou Huacheng Software Technology Co., Ltd.

Address : 15th Floor, Building 3, No. 582, Liye Road, Changhe Street, Binjiang District, China

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including
Appendices : 24



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2 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
709502606879-00A	First Issue	Sep. 04, 2026

3 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Products Testing (Shanghai) Co., Ltd.
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Shanghai 201108,
P.R. China

Telephone: +86 21 6037 6300

FCC Registration No.: 820234

FCC Designation Number: CN1183

ISED CAB identifier CN0101

IC Registration No.: 31668

4 Description of the Equipment Under Test

Product:	IMOU Smart Lock
Model no.:	Cubo1
FCC ID:	2BQWU-CUBO1-A1
Options and accessories:	NA
Rating:	6Vdc from battery(1.5V*4) 5Vdc from Type-C port by a power bank (Backup Power)
RF Transmission Frequency:	For NFC: 13.56 MHz For 2.4G BLE: 2402~2480 MHz For 2.4G Wi-Fi: 802.11b/g/n-HT20: 2412~2462 MHz 802.11n-HT40: 2422~2452 MHz
No. of Operated Channel:	For NFC: 1 For 2.4G BLE: 40 For 2.4G Wi-Fi: 11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Modulation:	For NFC: ASK For 2.4G BLE: GFSK For 2.4G Wi-Fi: Direct Sequence Spread Spectrum (DSSS) for 802.11b Orthogonal Frequency Division Multiplexing (OFDM) for 802.11g/n
Hardware Version:	V1.0
Software Version:	V3.001.0000000.4.R.250514
Data speed:	For 2.4G BLE: 1Mbps For 2.4G Wi-Fi: 11b 1-11Mbps 11g 6-54Mbps 11n(HT20) 6.5-72.2Mbps 11n(HT40) 13.5-150Mbps

Channel list:

For 2.4G BLE

Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

For 2.4G Wi-Fi

802.11b/g/n(HT20)			
Ch	Fre(MHz)	Ch	Fre(MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

802.11n(HT40)			
Ch	Fre(MHz)	Ch	Fre(MHz)
3	2422	7	2442
4	2427	8	2447
5	2432	9	2452
6	2437		

Antenna Type: For NFC: PCB loop antenna

For 2.4G BLE/Wi-Fi: Stamped metal antenna

Antenna Gain: For 2.4G BLE/Wi-Fi: -0.46dBi

Description of the EUT:

The Equipment Under Test (EUT) is a THERMAL IMAGING SCOPE STORM SERIES with BLE/Wi-Fi Module and NFC Module. The EUT support Wi-Fi operated at 2.4GHz.

Test sample no.: SHA-1062625-1



5 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2024 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to ANSI C63.10-2020.



6 Summary of Test Results

Technical Requirements			
FCC Part 15 Subpart C			
Test Condition		Test Site	Test Result
§15.207	Conducted emission AC power port	N/A	Pass
§15.225 (a, b)	Radiated Emission, 9KHz to 1000MHz	Test Site 1	Pass
§15.215 (c)	20dB Bandwidth Measurement	Test Site 1	Pass
§15.225(e)	Frequency Stability	Test Site 1	Pass
§15.203	Antenna requirement	See Note 2	Pass

Note 1: N/A=Not Applicable. Conducted emission is not apply for battery operated device.

Note 2: The EUT uses a PCB loop antenna and a Stamped metal antenna, which Stamped metal antenna gain: -0.46 dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.

7 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2BQWU-CUBO1-A1 complies with Section 15.205, 15.207, 15.209, 15.225 of the FCC Part 15 Subpart C Rules.

This report is only for 13.56MHz NFC test report.

We tested it and listed the worst data in this report.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: August 3, 2026

Testing Start Date: August 5, 2026

Testing End Date: September 4, 2026

TÜV SÜD Products Testing (Shanghai) Co., Ltd.

Reviewed by:

Prepared by:

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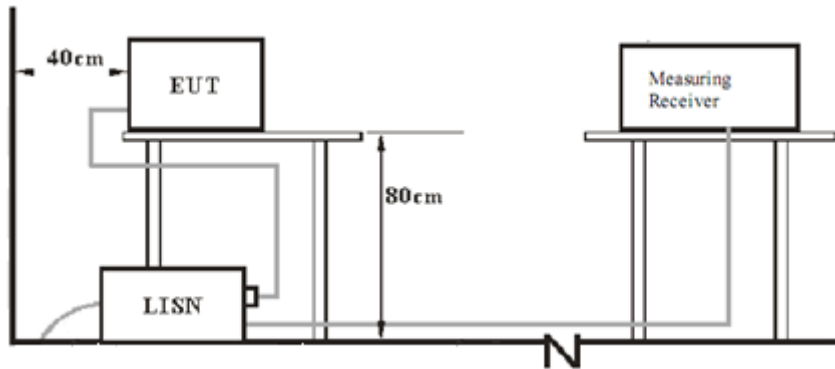
8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
--	--	--	--

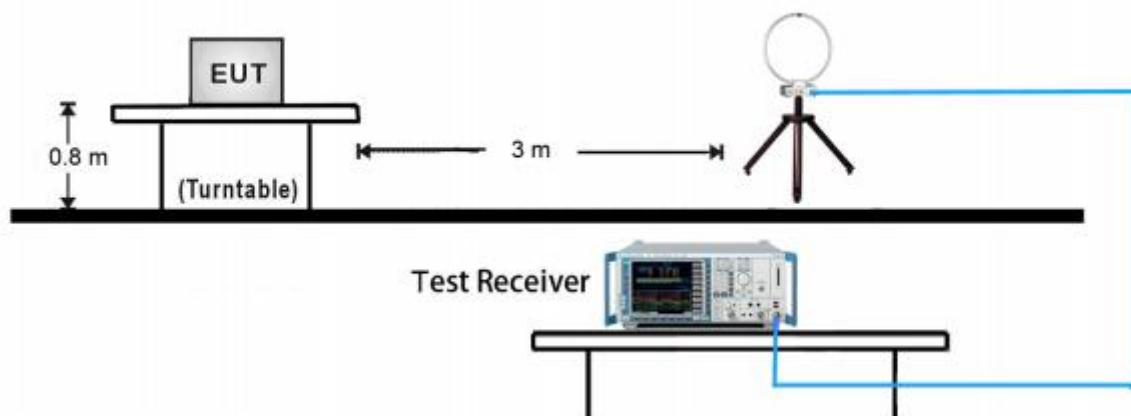
9 Test Setups

8.1 AC Power Line Conducted Emission test setups

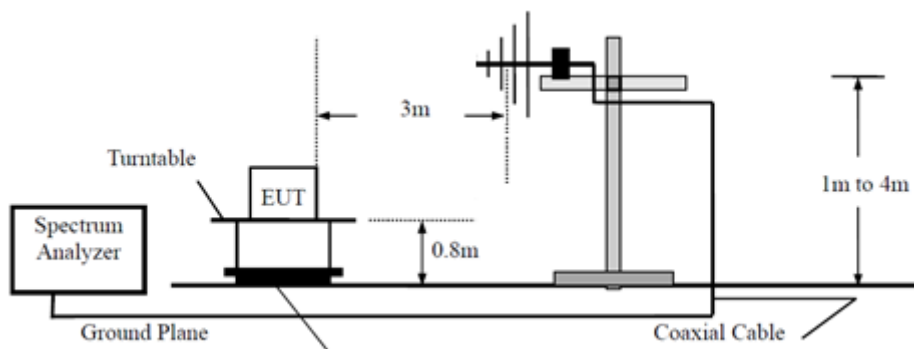


8.2 Radiated test setups

9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test- Setup



10 Test Methodology

10.1 Radiated Emission

Test Method

1. The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meters chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
4. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
5. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
6. Use the following spectrum analyzer settings According to C63.10:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:
 VBW = 10 Hz, when duty cycle is no less than 98 percent.
 VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
7. Repeat above procedures until all frequencies measured were complete.

Limit

According to §15.225 (a, b, c), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Frequency (MHz)	Field Strength Limitation		Field Strength Limitation at 3m Distance	
	(mV/m)	Distance	dBuV/m	Distance
13.553-13.567	15.848	30m	124	3m

Frequency (MHz)	Field Strength Limitation		Field Strength Limitation at 3m Distance	
	(uV/m)	Distance	dBuV/m	Distance
13.110-13.410	106	30m	80.5	3m
13.710-14.010				
13.410-13.553	334	30m	90.5	3m
13.567-13.710				

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Limits for 15.209 & RSS -GEN Radiated emission limits; general requirements

Frequency	Limit at 3m (dBuV/m)
0.009 MHz – 0.490 MHz	128.5 to 93.8 ¹
0.490 MHz – 1.705 MHz	73.8 to 63 ¹
1.705 MHz – 30 MHz	69.5 ¹
30 MHz – 88 MHz	40.0 ¹
88 MHz – 216 MHz	43.5 ¹
216 MHz – 960 MHz	46.0 ¹
Above 960 MHz	54.0 ¹
Above 1000 MHz	54.0 ²
Above 1000 MHz	74.0 ³

¹Limit is with detector with bandwidths as defined in CISPR-16-1-1 except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz where an Average detector is used.

²Limit is with 1 MHz measurement bandwidth and using an Average detector

³Limit is with 1 MHz measurement bandwidth and using a Peak detector

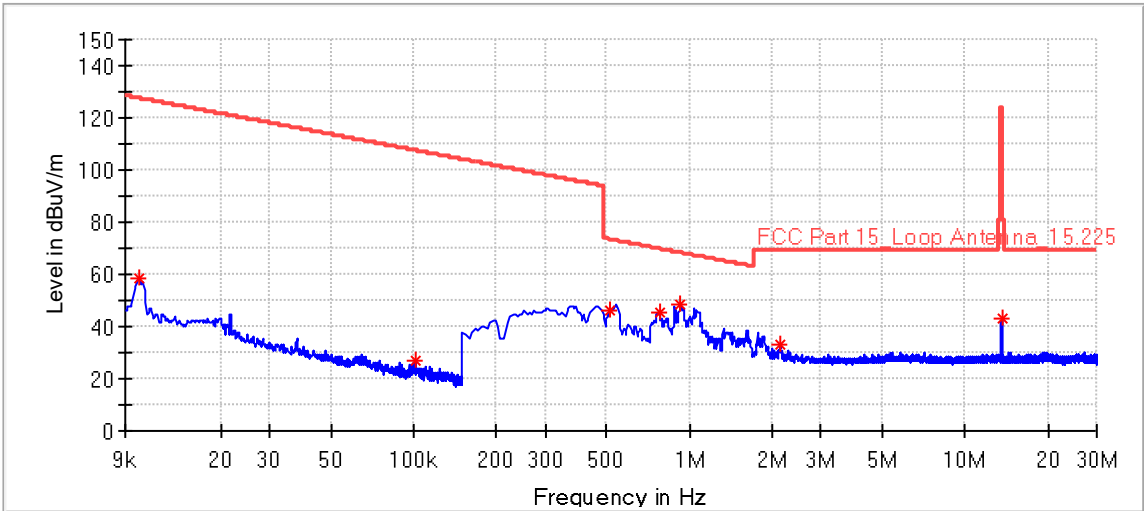
The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example: 13.56 MHz = 15848 uV/m 30m
 = 84 dBuV/m 30m
 = 84+20log(30/3)² 3m
 = 124 dBuV/m



Spurious radiated emissions for transmitter

Site: 3 meter chamber	Time: 2026/08/05 - 19:21
Limit: FCC Part15.209_RE(3m)	Engineer: Chengjie GUO
Probe: HFH2-Z2	Polarity: X
EUT: IMOUI Smart Lock	Power: DC 5V by a power bank (worse case)
Note: Transmit at 13.56MHz.	

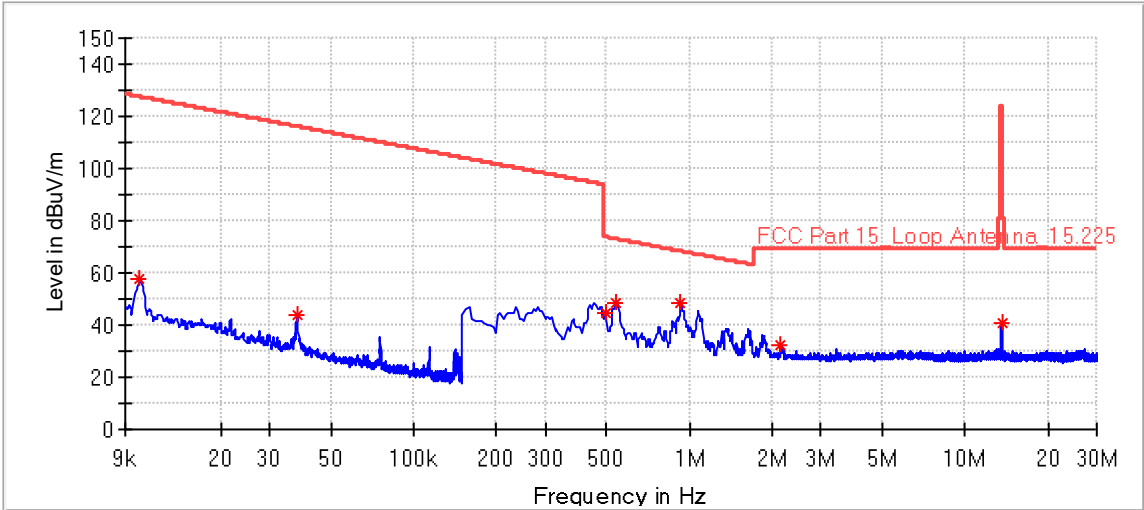


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.010058	58.15	127.55	69.40	X	134.0	19.6
0.101796	26.97	107.45	80.48	X	96.0	18.8
0.518735	46.17	73.31	27.14	X	172.0	18.8
0.782118	45.24	69.74	24.50	X	77.0	18.8
0.922588	48.21	68.30	20.10	X	157.0	18.8
2.125368	32.99	69.54	36.55	X	46.0	19.0
13.556162	42.71	124.00	81.29	X	303.0	18.8



Site: 3 meter chamber	Time: 2026/08/05 - 19:26
Limit: FCC Part15.209_RE(3m)	Engineer: Chengjie GUO
Probe: HFH2-Z2	Polarity: Y
EUT: IMOUI Smart Lock	Power: DC 5V by a power bank (worse case)
Note: Transmit at 13.56MHz.	

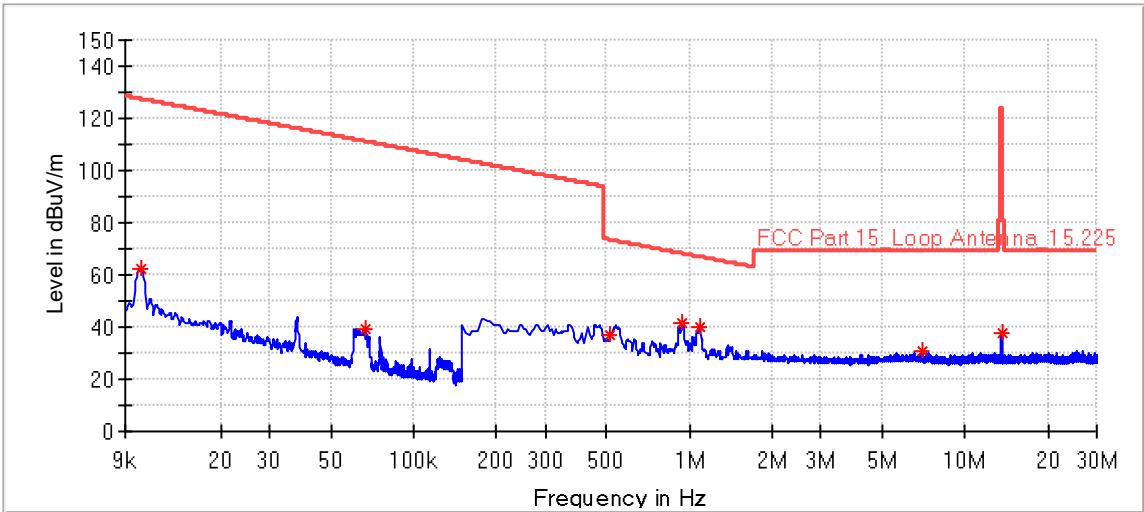


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.010146	57.50	127.48	69.98	Y	111.0	19.6
0.037905	43.52	116.03	72.51	Y	224.0	18.9
0.496787	44.84	73.68	28.84	Y	101.0	18.8
0.540684	48.47	72.95	24.48	Y	102.0	18.8
0.926978	48.10	68.26	20.16	Y	118.0	18.8
2.142927	32.03	69.54	37.51	Y	85.0	19.0
13.556162	41.15	124.00	82.85	Y	35.0	18.8



Site: 3 meter chamber	Time: 2026/08/05 - 19:32
Limit: FCC Part15.209 RE(3m)	Engineer: Chengjie GUO
Probe: HFH2-Z2	Polarity: Z
EUT: IMOUI Smart Lock	Power: DC 5V by a power bank (worse case)
Note: Transmit at 13.56MHz.	

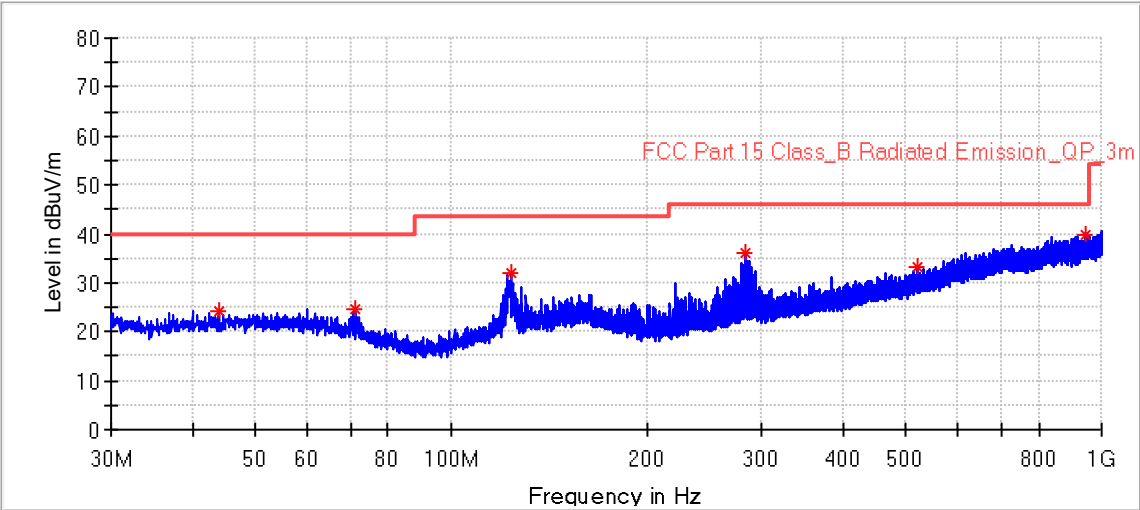


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.010234	62.59	127.40	64.81	Z	150.0	19.6
0.066458	39.19	111.15	71.96	Z	128.0	18.9
0.518735	37.06	73.31	36.24	Z	57.0	18.8
0.944537	41.28	68.10	26.82	Z	165.0	18.8
1.098177	40.31	66.79	26.48	Z	159.0	18.9
6.958434	30.40	69.54	39.15	Z	199.0	18.9
13.556162	37.82	124.00	86.18	Z	298.0	18.8



Site: 3 meter chamber	Time: 2026/08/05 - 18:23
Limit: FCC Part15.209 RE(3m)	Engineer: Chengjie GUO
Probe: VULB 9168	Polarity: Horizontal
EUT: IMOOU Smart Lock	Power: DC 5V by a power bank (worse case)
Note: Transmit at 13.56MHz.	



Limit and Margin (30-1000MHz)

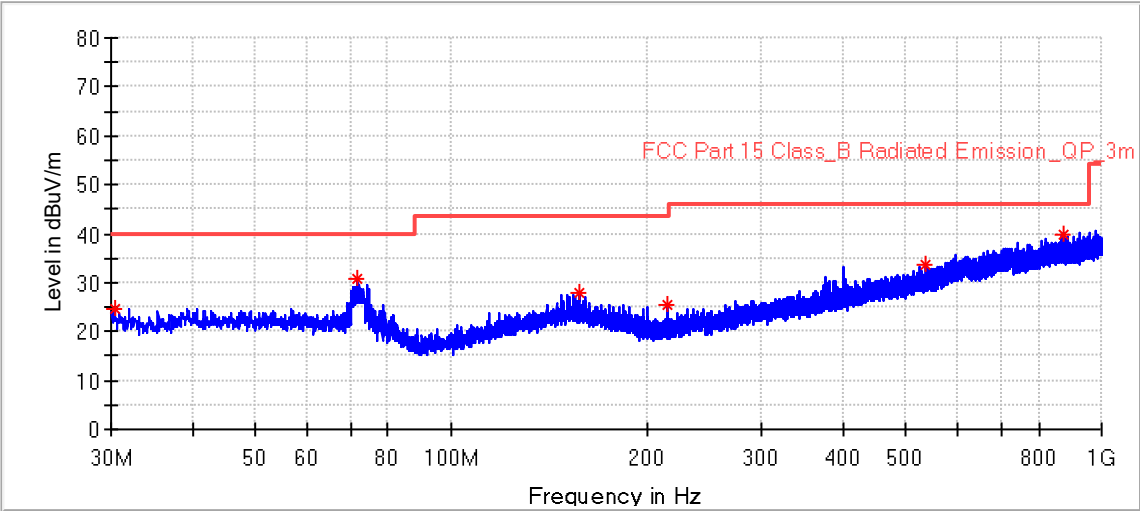
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.871000	24.25	40.00	15.75	100.0	H	195.0	20.2
71.419000	24.54	40.00	15.46	200.0	H	83.0	18.1
123.944500	31.81	43.50	11.69	100.0	H	114.0	18.9
283.121500	36.21	46.00	9.79	150.0	H	87.0	21.1
520.577500	33.34	46.00	12.66	100.0	H	130.0	27.4
948.056500	39.92	46.00	6.08	200.0	H	349.0	34.3

Remark:

- 1.The test frequency range and limit refer to FCC Rule Part 15.209 (f) and Part 15.33(5)
- 2.This device will be used in a commercial environment (hospital) and it defined as Class A digital device, whose highest frequency is less than 108MHz. So, the radiated emission range is 30MHz to 1000MHz.



Site: 3 meter chamber	Time: 2026/08/05 - 18:22
Limit: FCC Part15.209 RE(3m)	Engineer: Chengjie GUO
Probe: VULB 9168	Polarity: Vertical
EUT: IMOUI Smart Lock	Power: DC 5V by a power bank (worse case)
Note: Transmit at 13.56MHz.	



Limit and Margin (30-1000MHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV /m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/ m)
30.339500	24.80	40.00	15.20	100.0	V	165.0	19.2
71.855500	30.85	40.00	9.15	200.0	V	146.0	18.0
157.894500	28.04	43.50	15.46	100.0	V	150.0	20.7
215.124500	25.61	43.50	17.89	200.0	V	0.0	17.9
535.903500	33.45	46.00	12.55	100.0	V	288.0	27.4
873.221000	39.91	46.00	6.09	150.0	V	284.0	33.3

Remark:

- 1.The test frequency range and limit refer to FCC Rule Part 15.209 (f) and Part 15.33(5) & RSS-GEN
- 2.This device will be used in a commercial environment (hospital) and it defined as Class A digital device, whose highest frequency is less than 108MHz. So, the radiated emission range is 30MHz to 1000MHz.



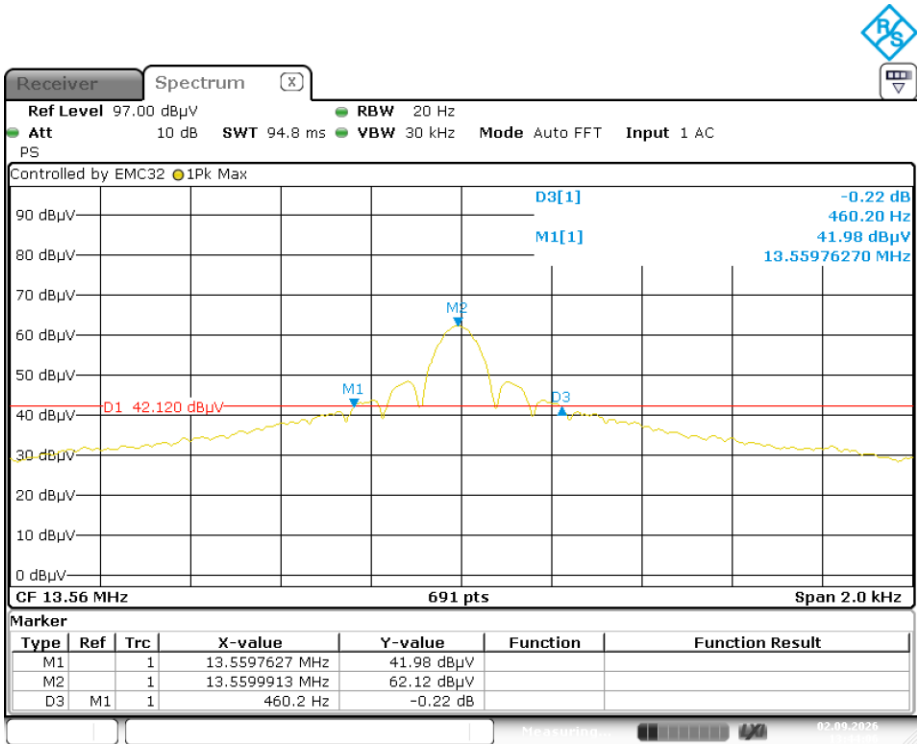
10.220dB Bandwidth Measurement

Test Method

- 1. Set to the maximum power setting and enable the EUT transmit continuously.
- 2. Use the following test receiver settings:
Span = approximately 5 times the 20dB bandwidth, centered on a hopping channel
RBW =1% to 5% of the 20dB bandwidth of the emission being measured, VBW≥RBW,
Sweep = auto, Detector function = peak, Trace = max hold
- 3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth. Record the results.
- 4. Repeat above procedures until all frequencies measured were complete.

Test Result

Channel	20dB Bandwidth	Limit
13.56MHz	460.20Hz	NA



Date: 2.SEP.2026 13:44:06

10.3 FREQUENCY STABILITY

Test Method

1. The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feed through attenuators. The EUT was placed inside the temperature chamber.
2. After the temperature stabilized for approximately 0, 2, 5, 10 minutes, the frequency of the output signal was recorded from the counter.
3. At room temperature ($25\pm 5^{\circ}\text{C}$), an external variable DC power supply was connected to the EUT. The frequency of the transmitter was measured for 115%, 100% and 85% of the nominal operating input voltage.

Limit

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+ 50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

For battery operated equipment, the equipment tests shall be performed using a new battery.

Test Result

Frequency Stability: Temperature variation					
Startup					
Temperature ($^{\circ}\text{C}$)	Voltage (DC)	Frequency (MHz)	Frequency Error (kHz)	Limit (kHz)	Result
50	6V	13.5600750	0.0750	within +/- 1.356	Pass
40	6V	13.5600170	0.0170	within +/- 1.356	Pass
30	6V	13.5600948	0.0948	within +/- 1.356	Pass
20	6V	13.5600088	0.0088	within +/- 1.356	Pass
10	6V	13.5600633	0.0633	within +/- 1.356	Pass
0	6V	13.5600120	0.0120	within +/- 1.356	Pass
-10	6V	13.5600308	0.0308	within +/- 1.356	Pass
-20	6V	13.5600433	0.0433	within +/- 1.356	Pass

Frequency Stability: Temperature variation					
2mins					
Temperature (°C)	Voltage (DC)	Frequency (MHz)	Frequency Error (kHz)	Limit (kHz)	Result
50	6V	13.5600521	0.0521	within +/- 1.356	Pass
40	6V	13.5600932	0.0932	within +/- 1.356	Pass
30	6V	13.5600099	0.0099	within +/- 1.356	Pass
20	6V	13.5600387	0.0387	within +/- 1.356	Pass
10	6V	13.5600096	0.0097	within +/- 1.356	Pass
0	6V	13.5600870	0.0870	within +/- 1.356	Pass
-10	6V	13.5600242	0.0242	within +/- 1.356	Pass
-20	6V	13.5600652	0.0652	within +/- 1.356	Pass

Frequency Stability: Temperature variation					
5mins					
Temperature (°C)	Voltage (DC)	Frequency (MHz)	Frequency Error (kHz)	Limit (kHz)	Result
50	6V	13.5600229	0.0229	within +/- 1.356	Pass
40	6V	13.5600063	0.0063	within +/- 1.356	Pass
30	6V	13.5600330	0.0330	within +/- 1.356	Pass
20	6V	13.5600456	0.0456	within +/- 1.356	Pass
10	6V	13.5600405	0.0405	within +/- 1.356	Pass
0	6V	13.5600145	0.0145	within +/- 1.356	Pass
-10	6V	13.5600630	0.0630	within +/- 1.356	Pass
-20	6V	13.5600543	0.0543	within +/- 1.356	Pass

Frequency Stability: Temperature variation					
10mins					
Temperature (°C)	Voltage (DC)	Frequency (MHz)	Frequency Error (kHz)	Limit (kHz)	Result
50	6V	13.5600330	0.0330	within +/- 1.356	Pass
40	6V	13.5600654	0.0654	within +/- 1.356	Pass
30	6V	13.5600399	0.0399	within +/- 1.356	Pass
20	6V	13.5600985	0.0985	within +/- 1.356	Pass
10	6V	13.5600954	0.0954	within +/- 1.356	Pass
0	6V	13.5600621	0.0621	within +/- 1.356	Pass
-10	6V	13.5600156	0.0156	within +/- 1.356	Pass
-20	6V	13.5600442	0.0442	within +/- 1.356	Pass

Frequency Stability: Voltage variation					
Temperature (°C)	Voltage (DC)	Frequency (MHz)	Frequency Error (kHz)	Limit (kHz)	Result
20	6.9V	13.5600185	0.0185	within +/- 1.356	Pass
20	6V	13.5600985	0.0985	within +/- 1.356	Pass
20	5.1V	13.5600569	0.0569	within +/- 1.356	Pass

11 Test Equipment List

List of Test Instruments Test Site1

RF Conductive Test

Description	Manufacturer	Model no.	Serial no.	Calibration Date	Calibration Due
Signal and spectrum analyzer	R&S	FSV40	S1503003-YQ-EMC	2026-8-3	2027-8-2
Temperature Chamber	Shanghai HUCAN	HTT-100AP	S2201430b-YQ-EMC	2025-11-3	2026-11-2

Conducted Emission

Description	Model no.	Manufacturer	Equipment ID.	Calibration Date	Calibration Due
EMI test receiver	ESR3	R&S	S1503001-YQ-EMC	2026-8-3	2027-8-2
2-Line V-network	ENV216	R & S	S1503103-YQ-EMC	2026-8-3	2027-8-2
CE_Cable_01 Coaxial Cable	RG400	HUBER+SUH NER	1002115055	2026-8-1	2027-7-31

Radiated Emission Test

USED	Equipment Name	Model	Manufacturer	Equipment ID.	Calibration Date	Calibration Due
☒	EMI test receiver	ESR3	R&S	S1503109-YQ-EMC	2026-8-3	2027-8-2
☒	Trilog super broadband test antenna	SCHWARZBECK	VULB9168	S1808296-YQ-EMC	2026-6-25	2027-6-24
☒	Loop antenna	HFH2-Z2	R&S	S1503013-YQ-EMC	2026-6-25	2027-6-24
☒	RE_Cable_01 Coaxial Cable	MWX221	JUNFLON	1906S057	2026-8-1	2027-7-31
☒	RE_Cable_02 Coaxial Cable	RG214	HUBER+SUH NER	1358176	2026-8-1	2027-7-31

Measurement Software Information

Test Item	Software	Manufacturer	Version
RE	EMC 32	Rohde & Schwarz	V10.50.40
CE	EMC 32	Rohde & Schwarz	V9.15.03



12 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty

Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, 3.16dB
Radiated Disturbance	9kHz to 30MHz, 3.52dB 30MHz to 1GHz, 5.03dB (Horizontal) 5.12dB (Vertical) 1GHz to 18GHz, 5.49dB 18GHz to 40GHz, 5.63dB
Carrier power conducted measurement	50MHz~18GHz, 1.238dB
Spurious Emission Conducted Measurement	9kHz ~40GHz, 1.224dB

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3.



13 Photographs of Test Set-ups

Refer to the < Test Setup photos >.



14 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

-----End of Test Report-----