

# MPE TEST REPORT

Report No.: SHE23010040-01BE

Date: 2023-03-10

Page 1 of 10

**Applicant** : GUARDIAN SHANGHAI CORP.  
**Address of Applicant** : 368, Min Shen Rd, SongJiang, Shanghai, China

**Product Name** : Remote Control for Garage Door Opener  
**Brand Name** : Guardian  
**Model Name** : UTX, UTXBU, UTXD, UTXM, UTXP, UTXL, UTXHD  
**Sample Acquisition Method** : Sent by Client  
**Sample No.** : E23010040-01#01  
E23010040-01#02

**FCC ID** : YJFUTX

**Standards** : FCC Part 2.1093

**Date of Receipt** : 2023-02-15  
**Date of Test** : 2023-02-18~2023-03-10  
**Date of Issue** : 2023-03-10

**Remark:**

*This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.*

Prepared by:



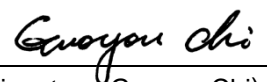
(Erik Yang)

Reviewed by:



(Jennifer Zhou)

Approved by:



(Authorized signatory: Guoyou Chi)

# MPE TEST REPORT

Report No.: SHE23010040-01BE

Date: 2023-03-10

Page 2 of 10

## Contents

<b>1</b>	<b>GENERAL INFORMATION .....</b>	<b>3</b>
1.1	TESTING LABORATORY.....	3
1.2	ENVIRONMENTAL CONDITIONS .....	3
1.3	DETAILS OF APPLICATION .....	3
1.4	DETAILS OF EUT .....	3
<b>2</b>	<b>ASSESSMENT METHODS.....</b>	<b>4</b>
<b>3</b>	<b>CONCLUSION .....</b>	<b>5</b>
<b>4</b>	<b>APPENDIXES .....</b>	<b>6</b>
4.1	SAMPLE PHOTOGRAPH.....	6

# MPE TEST REPORT

Report No.: SHE23010040-01BE

Date: 2023-03-10

Page 3 of 10

## 1 General Information

### 1.1 Testing Laboratory

Company Name	ICAS Testing Technology Services (Shanghai) Co., Ltd.
Address	No.1298, Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

### 1.2 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060
Ambient noise & Reflection (W/kg)	< 0.012

### 1.3 Details of Application

Applicant Company Name	GUARDIAN SHANGHAI CORP.
Address	368, Min Shen Rd, SongJiang, Shanghai, China
Contact Person	Vincent Chan
Telephone	+86-21-57684828
Email	vincent@adhguardian.com
Manufacturer Company Name	GUARDIAN SHANGHAI CORP.
Address	368, Min Shen Rd, SongJiang, Shanghai, China
Factory Company Name	GUARDIAN SHANGHAI CORP.
Address	368, Min Shen Rd, SongJiang, Shanghai, China

### 1.4 Details of EUT

Product Name	Remote Control for Garage Door Opener
Brand Name	Guardian
Test Model Name	UTX
Series Model Name	UTXBU, UTXD, UTXM, UTXP, UTXL, UTXHD
Difference Description	All the models are completely electrically identical. The only difference is the model name for different customers/markets.
FCC ID	YJFUTX
Operation Frequency	303MHz-434.4MHz
Modulation Type	ASK(303MHz-433.92MHz) FSK(434.4MHz)

# MPE TEST REPORT

Report No.: SHE23010040-01BE

Date: 2023-03-10

Page 4 of 10

<b>Antenna Type</b>	Integral Antenna
<b>Antenna Gain</b>	-2dBi
<b>Hardware version</b>	ver 01
<b>Software version</b>	ver 01

## 2 Assessment methods

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

Where  $f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

### Test Data

Field strength (dBuV/m)	303MHz-434.4MHz							
	303MHz	310MHz	315MHz	318MHz	390MHz	433.42MHz	433.92MHz	434.4MHz
	60.58	60.70	59.39	59.88	58.11	53.90	55.13	57.55
Peak Power (dBm)	-34.62	-34.50	-35.81	-35.32	-37.09	-41.30	-40.07	-37.65

Note: This report listed the worst case value, please refer to RF test Report No. SHE23010040-01AE  
Test Result Radiated Emission 4.1.4.

### Tune-up power

Operation Frequency	Power Range (dBm)
303MHz	(-35.00) – (-34.00)
310MHz	(-35.00) – (-34.00)
315MHz	(-36.00) – (-35.00)
318MHz	(-36.00) – (-35.00)
390MHz	(-37.50) – (-36.50)
433.42MHz	(-42.00) – (-41.00)
433.92MHz	(-40.50) – (-39.50)
434.4MHz	(-38.00) – (-37.00)

# MPE TEST REPORT

Report No.: SHE23010040-01BE

Date: 2023-03-10

Page 5 of 10

Operation Frequency (MHz)	Tune-up Power (dBm)	Tune-up Power (mW)	Separation Distance (mm)	RF exposure evaluation SAR	Exclusion Thresholds
303MHz	-34.00	0.000398	5	0.000044	3.0
310MHz	-34.00	0.000398	5	0.000044	3.0
315MHz	-35.00	0.000316	5	0.000035	3.0
318MHz	-35.00	0.000316	5	0.000036	3.0
390MHz	-36.50	0.000224	5	0.000028	3.0
433.42MHz	-41.00	0.000079	5	0.000010	3.0
433.92MHz	-39.50	0.000112	5	0.000015	3.0
434.4MHz	-37.00	0.000200	5	0.000026	3.0

## 3 Conclusion

For FCC, Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is <3.0, SAR testing is not required. RF exposure Evaluation Results: Compliance

# MPE TEST REPORT

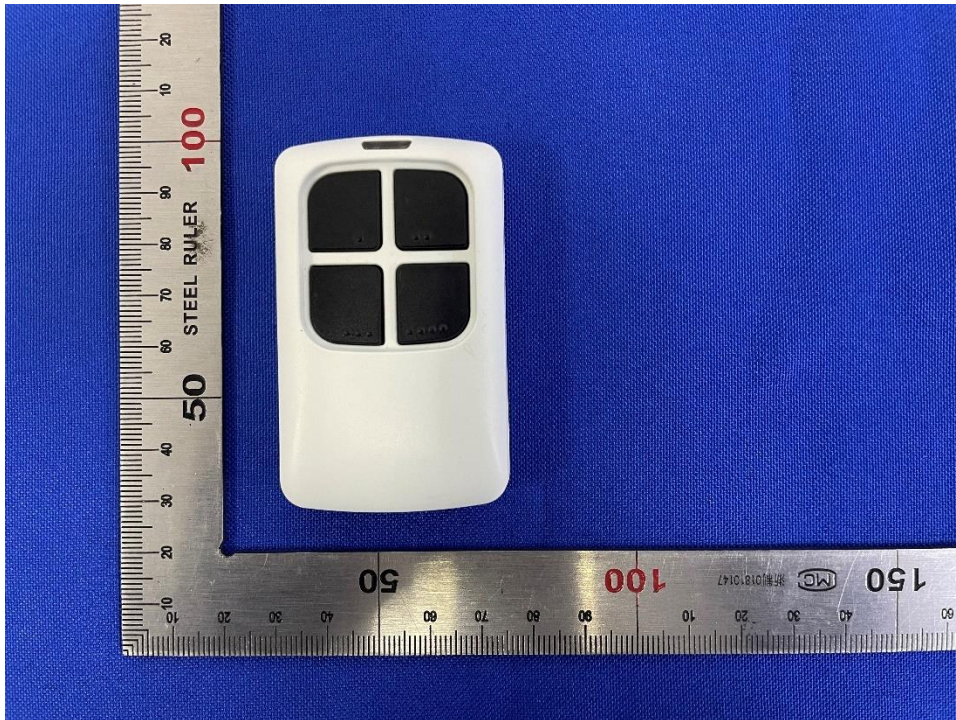
Report No.: SHE23010040-01BE

Date: 2023-03-10

Page 6 of 10

## 4 Appendixes

### 4.1 Sample Photograph



Front view of EUT



Back view of EUT

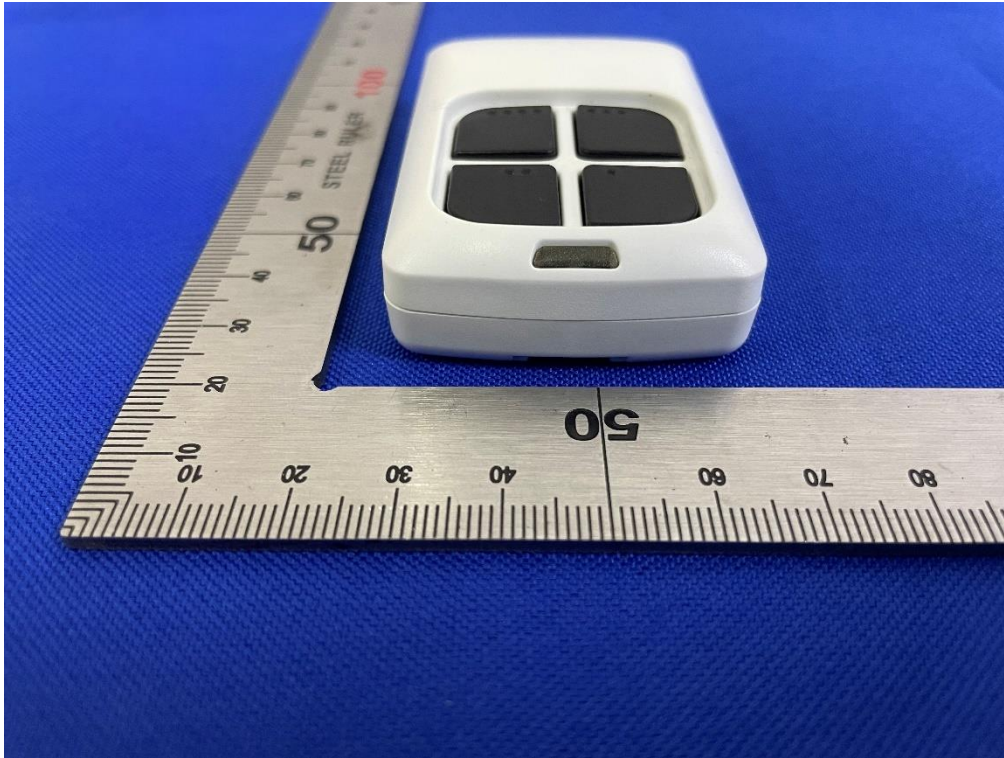


# MPE TEST REPORT

Report No.: SHE23010040-01BE

Date: 2023-03-10

Page 7 of 10



Top view of EUT



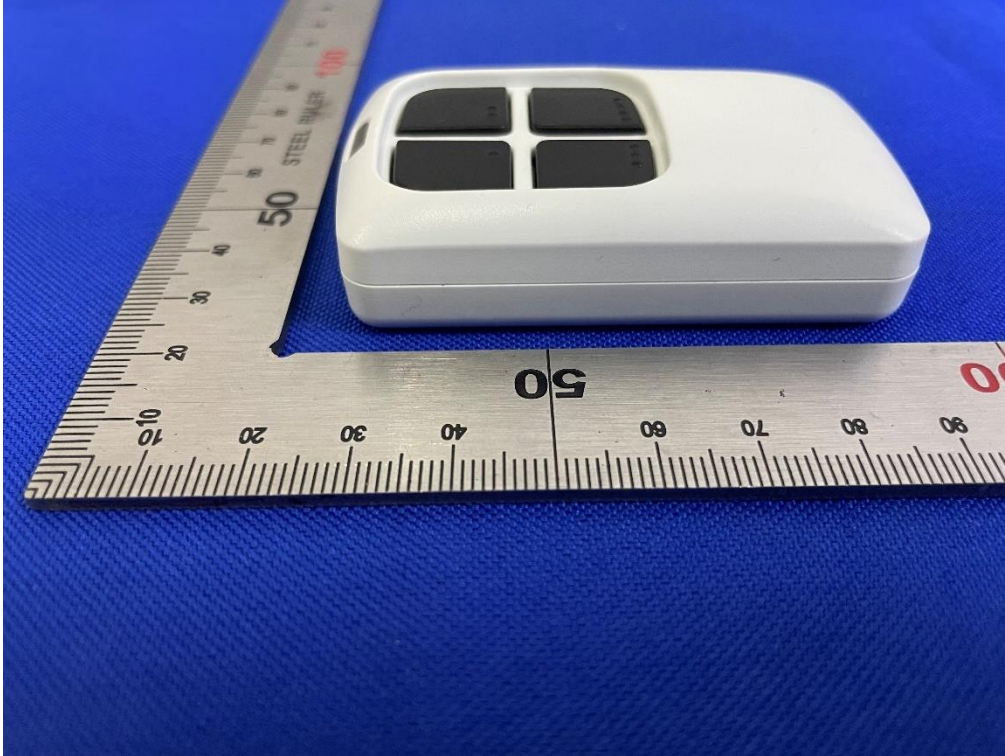
Bottom view of EUT

# MPE TEST REPORT

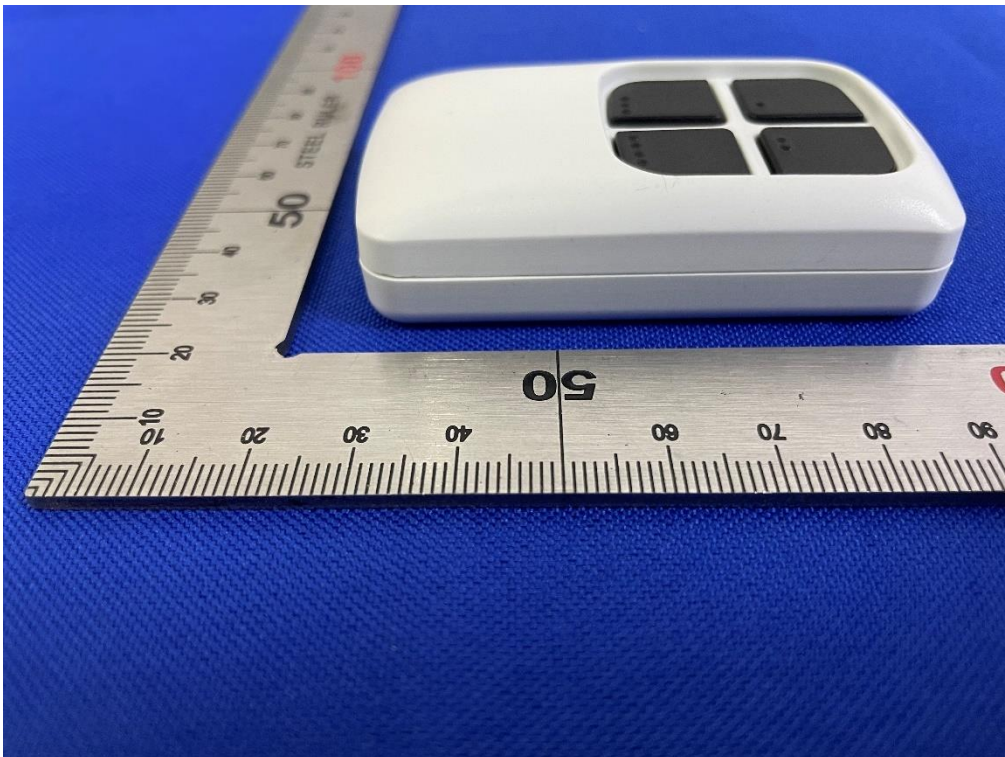
Report No.: SHE23010040-01BE

Date: 2023-03-10

Page 8 of 10



Left view of EUT



Right view of EUT

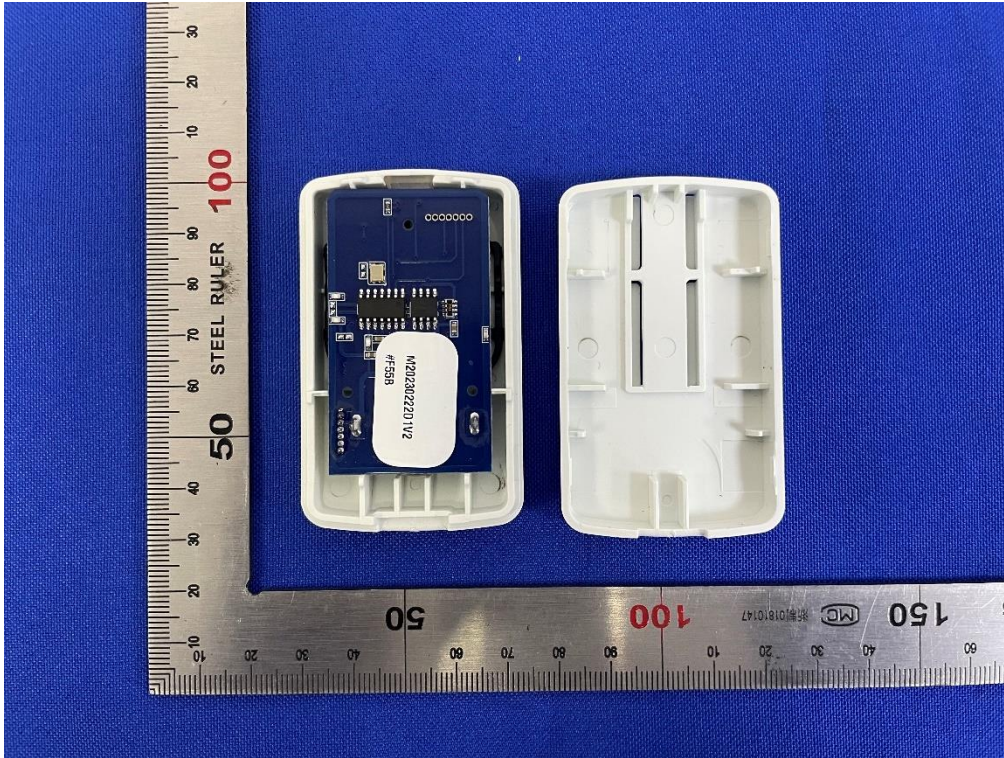


# MPE TEST REPORT

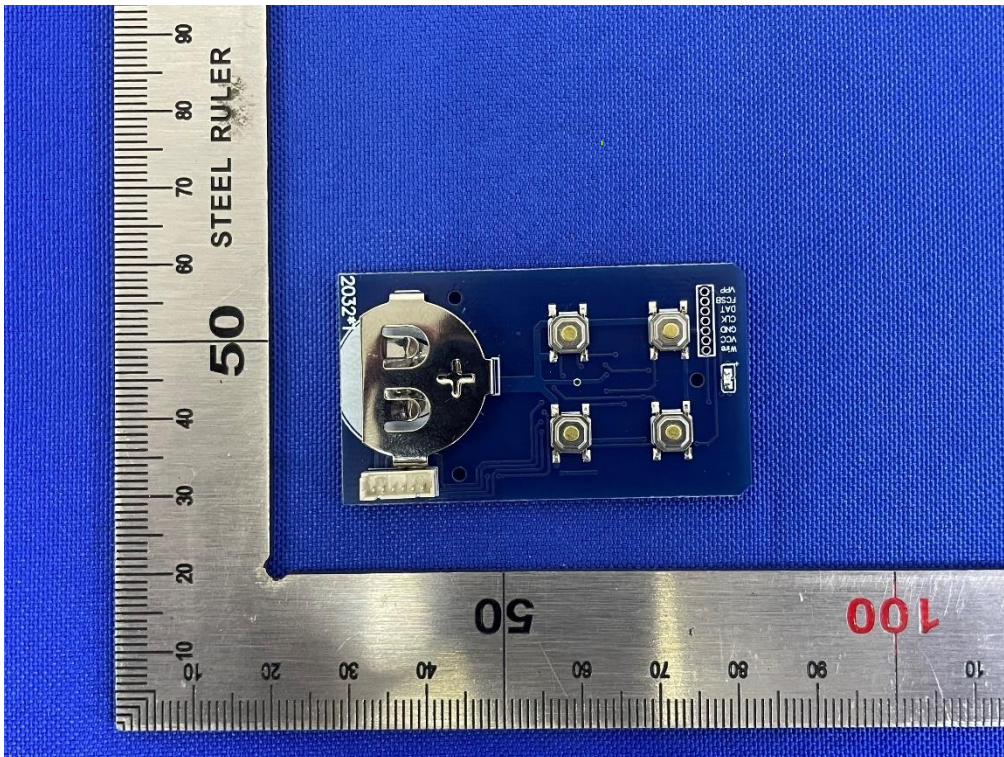
Report No.: SHE23010040-01BE

Date: 2023-03-10

Page 9 of 10



Open view of EUT



Internal view of EUT-1

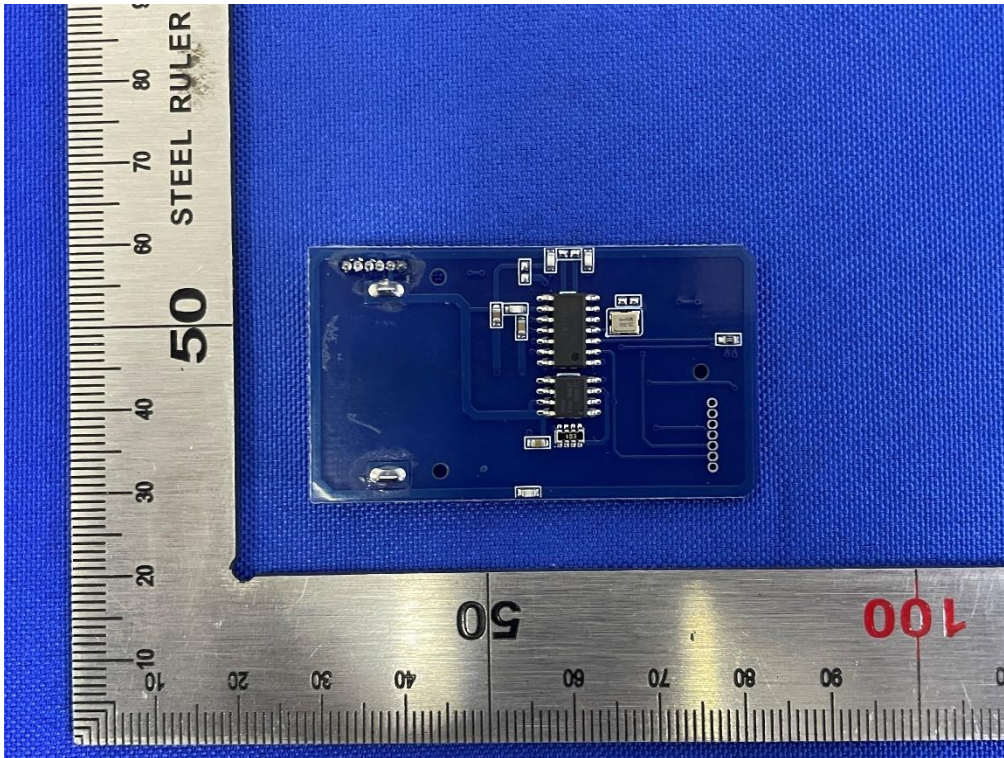


# MPE TEST REPORT

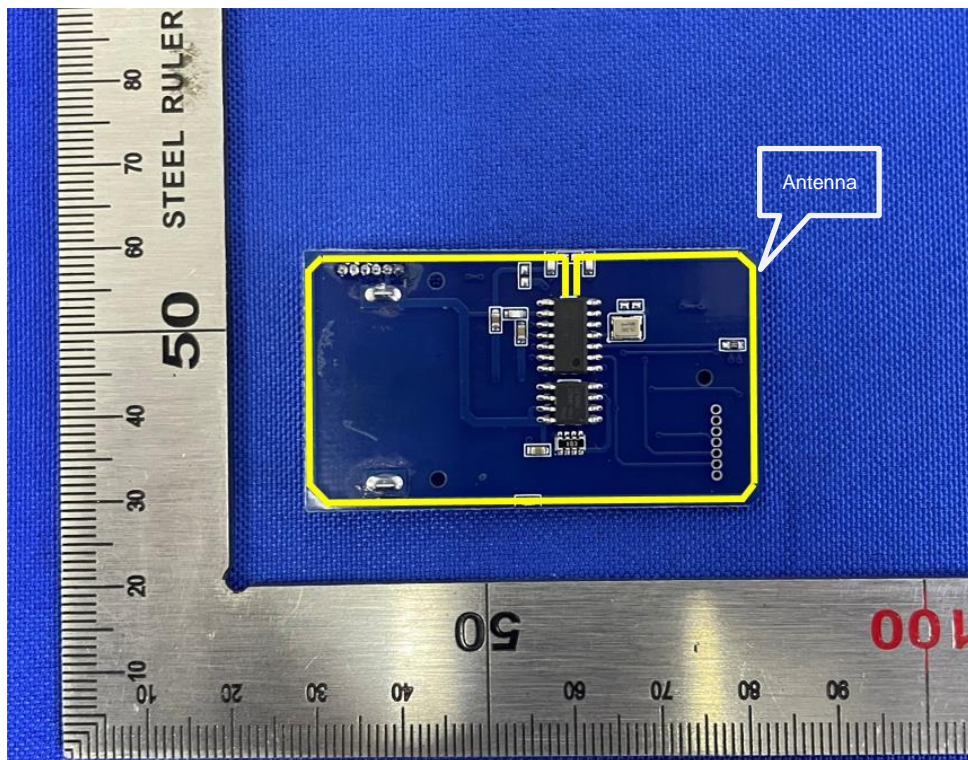
Report No.: SHE23010040-01BE

Date: 2023-03-10

Page 10 of 10



Internal view of EUT-2



Antenna Position of EUT

\*\*\*End of the report\*\*\*