

RF Exposure Test Report

Report No.: SHE26020003-05FE

Date: 2026-03-21

Page 1 of 10

Applicant : Keeson Technology Corporation Limited
Address of Applicant : No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province, China.

Product Name : CONTROL BOX
Brand Name : N/A
Model Name : MC321
Sample Acquisition Method : Sent by Client
Sample No. : E26020003-02#01
E26020003-02#02

FCC ID : 2AK23MC321

Standards : FCC Part 2.1093

Date of Receipt : 2026-02-04
Date of Test : 2026-03-05 ~ 2026-03-20
Date of Issue : 2026-03-21

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: Echo Mu)

RF Exposure Test Report

Report No.: SHE26020003-05FE

Date: 2026-03-21

Page 2 of 10

Contents

1	GENERAL INFORMATION	3
1.1	TESTING LABORATORY	3
1.2	DETAILS OF APPLICATION	3
1.3	DETAILS OF EUT	3
2	ASSESSMENT METHODS	4
3	CONCLUSION	5
4	APPENDIXES	6
4.1	EXTERNAL PHOTO OF THE SAMPLE	6
4.2	INTERNAL PHOTO OF THE SAMPLE	9

RF Exposure Test Report

Report No.: SHE26020003-05FE

Date: 2026-03-21

Page 3 of 10

1 General Information

1.1 Testing Laboratory

Company Name	Shanghai Ingeer Testing Technology Co., Ltd.
Address	No.1298, Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999

1.2 Details of Application

Applicant Company Name	Keeson Technology Corporation Limited
Applicant Company Address	No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province,China.
Contact Person	Sam xu
Telephone	+86 18279170755
Email	Sam.Xu@keeson.com
Manufacturer Company Name	Aige Intelligent Technology(Jiaxing)Co.,Ltd.
Manufacturer Company Address	No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province,China.
Factory Company Name	Aige Intelligent Technology(Jiaxing)Co.,Ltd.
Factory Company Address	No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province,China.

1.3 Details of EUT

Product Name	CONTROL BOX
Brand Name	N/A
Test Model Name	MC321
FCC ID	2AK23MC321
Operation Frequency	SRD:2403MHz ~ 2480MHz BLE:2402MHz ~ 2480MHz
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	0dBi
Hardware version	V1.0
Software version	V1.0

Note:

1. The above information was declared by the manufacture.
2. For more details, please refer to the User's manual of the EUT.

RF Exposure Test Report

Report No.: SHE26020003-05FE

Date: 2026-03-21

Page 4 of 10

2 Assessment methods

According to KDB 447498 D04 Interim General RF Exposure Guidance v01

Appendix B

Exemptions for Single RF Sources

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of $\lambda/4$.

As for devices with antennas of length greater than $\lambda/4$ where the gain is not well defined, but always less than that of a half-wave dipole (length $\lambda/2$), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

The example values shown in Table B.2 are for illustration only.

RF Exposure Test Report

Report No.: SHE26020003-05FE

Date: 2026-03-21

Page 5 of 10

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

3 Conclusion

Per KDB 447498 D04 Interim General RF Exposure Guidance v01 Appendix B, when the minimum test separation distance is 5mm, a distance of 5mm is applied to determine SAR test exclusion. The test exclusion threshold SRD is $<2.787\text{mW}(f=2.403\text{GHz})$. The test exclusion threshold BLE is $<2.788\text{mW}(f=2.402\text{GHz})$. SRD RF Maximum Output Power is 1.38dBm; ERP = $0.838\text{mW} < 2.787\text{mW}$. BLE RF Maximum Output Power is 1.19dBm; ERP = $0.802\text{mW} < 2.787\text{mW}$. SRD(2403-2480MHz) and BLE(2402-2480MHz) technology types are independent and do not support simultaneous transmission. So SAR testing is not required. RF exposure Evaluation Results: Compliance

RF Exposure Test Report

Report No.: SHE26020003-05FE

Date: 2026-03-21

Page 6 of 10

4 Appendixes

4.1 External Photo of the Sample



Front of the sample



Rear of the sample

RF Exposure Test Report

Report No.: SHE26020003-05FE

Date: 2026-03-21

Page 7 of 10



Left of the sample



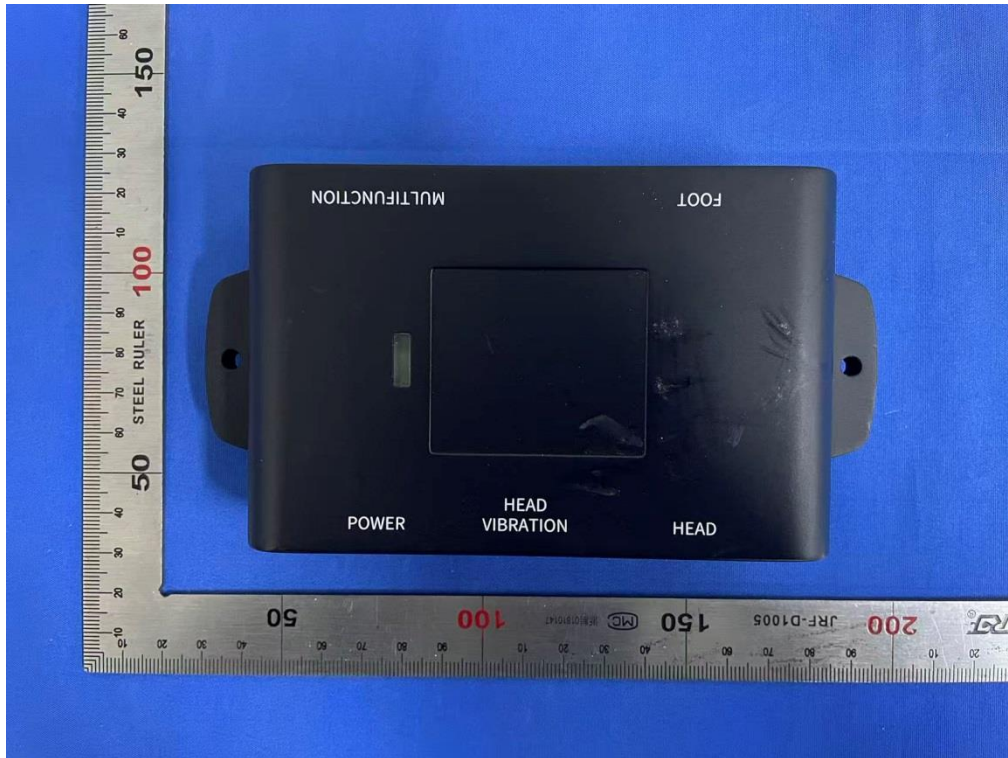
Right of the sample

RF Exposure Test Report

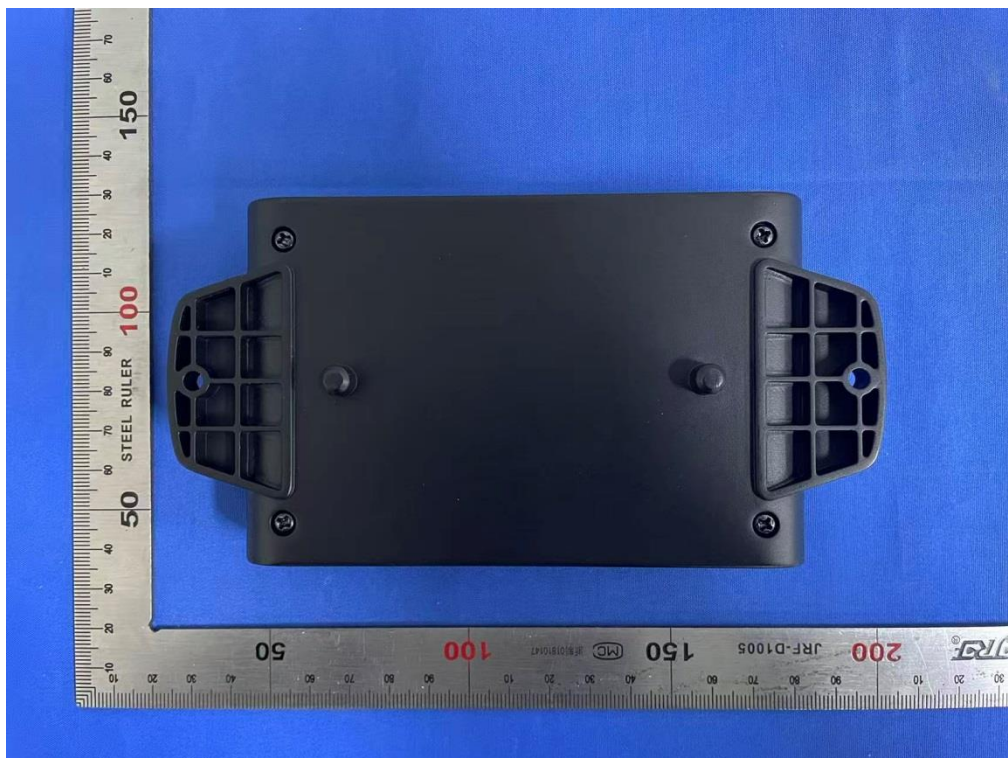
Report No.: SHE26020003-05FE

Date: 2026-03-21

Page 8 of 10



Top of the sample



Bottom of the sample

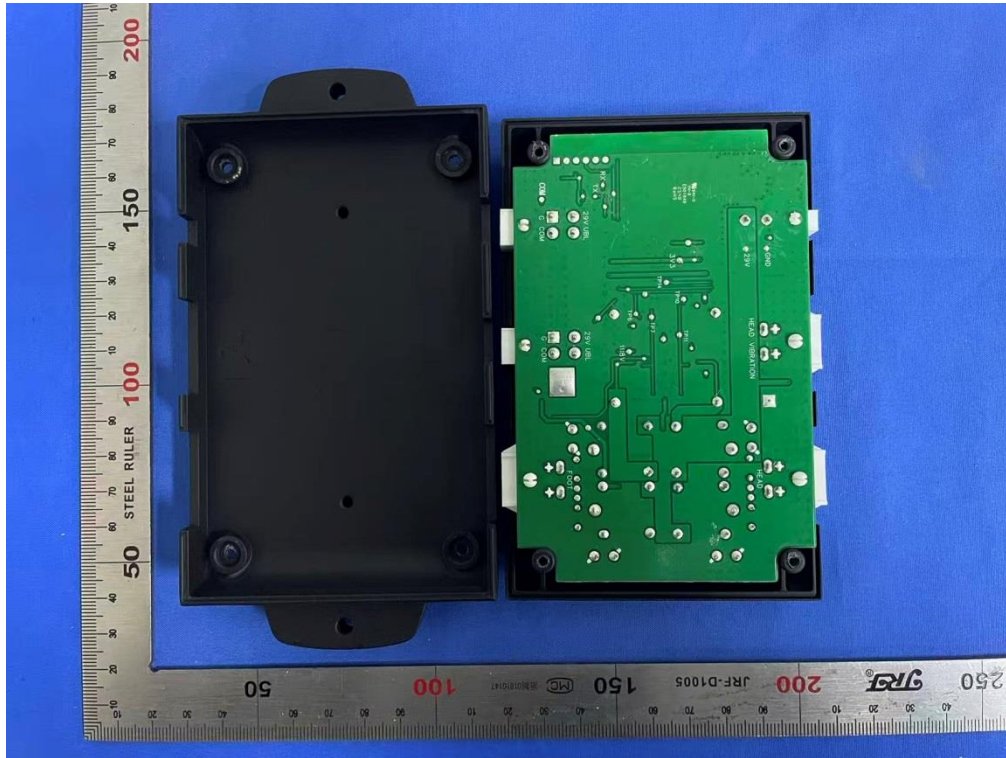
RF Exposure Test Report

Report No.: SHE26020003-05FE

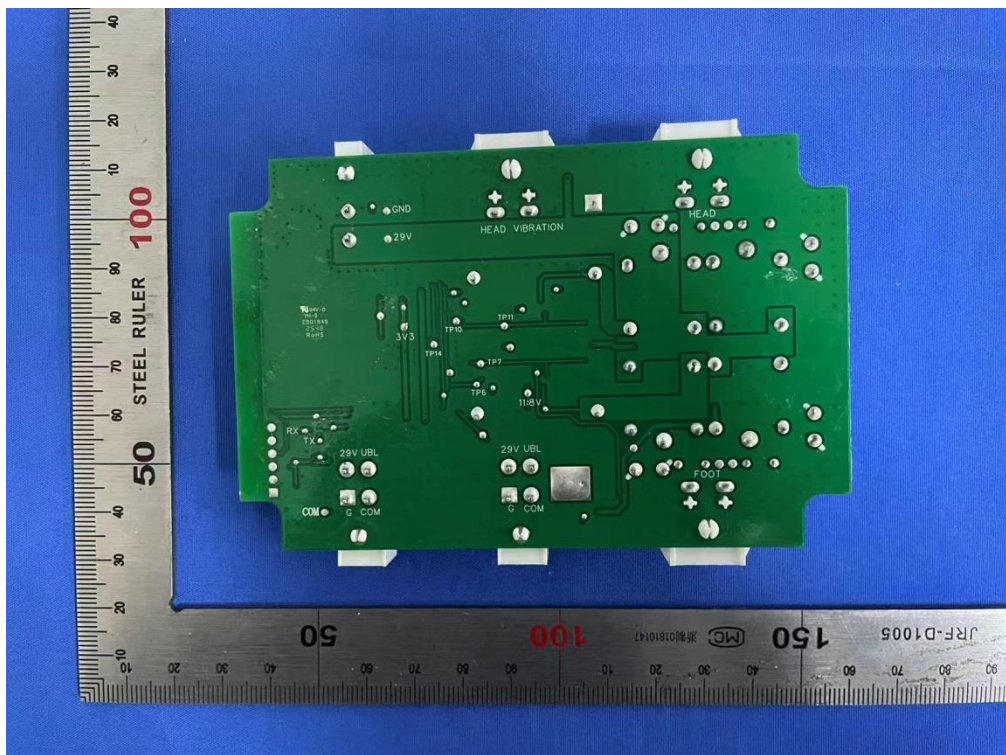
Date: 2026-03-21

Page 9 of 10

4.2 Internal Photo of the Sample



Open of the sample



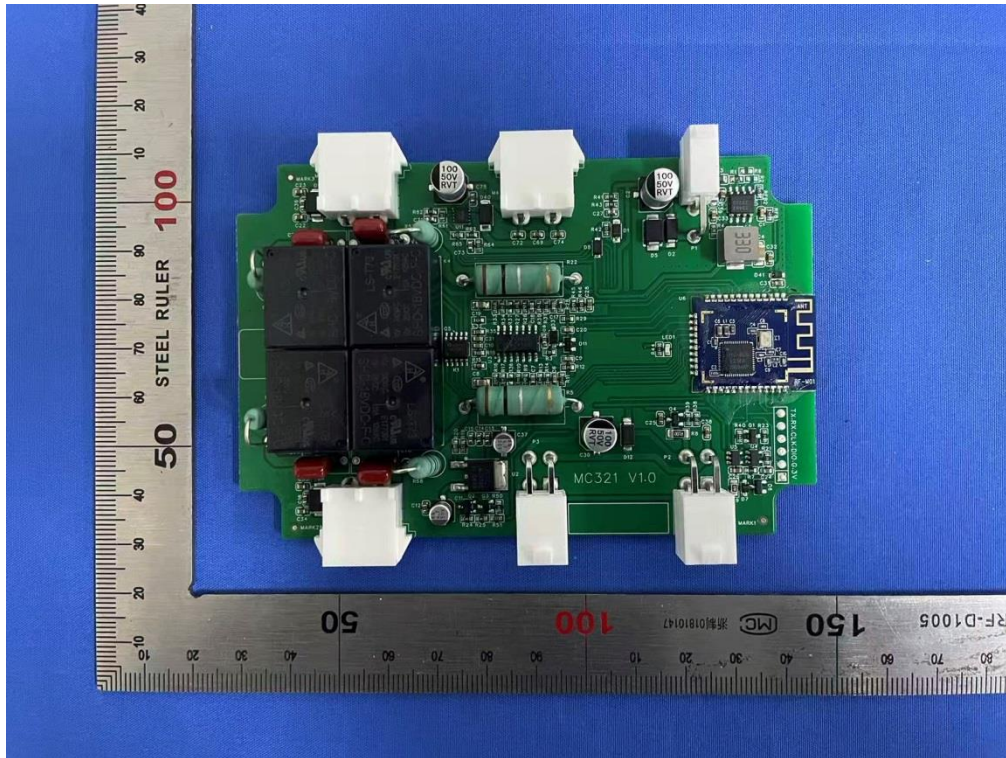
Internal photo-1 of the sample

RF Exposure Test Report

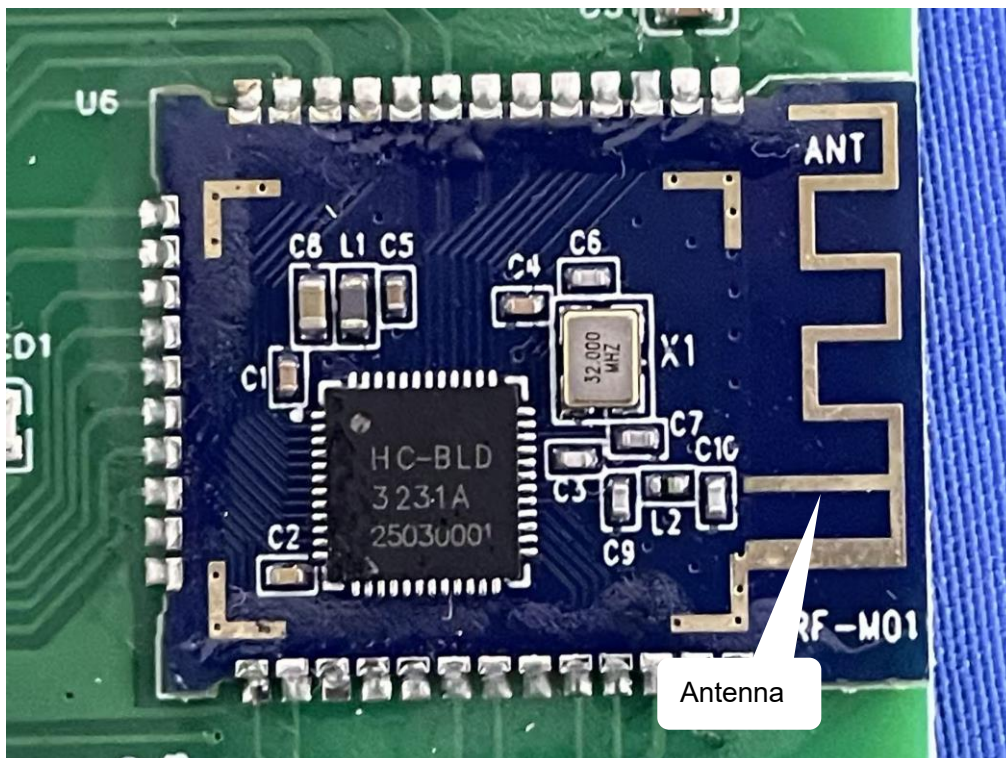
Report No.: SHE26020003-05FE

Date: 2026-03-21

Page 10 of 10



Internal photo-2 of the sample



Antenna position of the sample

End of the report