



Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640
Fax: +86-755-26648637
Website: www.cqa-cert.com

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RF Exposure Evaluation Report

Report No.: CQASZ20241002279E-02
Applicant: Holi-Uprise Company Limited
Address of Applicant: Rm 610, 6/F, Harbour Crystal Centre, 100 Granville Road, TST East, HK
Equipment Under Test (EUT):
EUT Name: AEROBOARD
Model No.: RGR4570, RGR4571, RGR4572
Test Model No.: RGR4570
Brand Name: N/A
FCC ID: 2AXIN-RGR4570
Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
447498 D04 Interim General RF Exposure Guidance v01
Date of Receipt: 2024-10-28
Date of Test: 2024-10-28 to 2024-11-05
Date of Issue: 2025-1-14
Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20241002279E-02	Rev.01	Initial report	2025-1-14

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3 General Information

3.1 Client Information

Applicant:	Holi-Uprise Company Limited
Address of Applicant:	Rm 610, 6/F, Harbour Crystal Centre, 100 Granville Road, TST East, HK
Manufacturer:	Holi-Uprise Company Limited
Address of Manufacturer:	Rm 610, 6/F, Harbour Crystal Centre, 100 Granville Road, TST East, HK
Factory:	Shenzhen Helichuang Electronics Co. , Ltd.
Address of Factory:	201,401,501, building a, 1 Xihu Tang Street, Pingdong community, Pingdi Street, Longgang District City, Shenzhen City

3.2 General Description of EUT

Product Name:	AEROBOARD
Model No.:	RGR4570, RGR4571, RGR4572
Test Model No.:	RGR4570
Trade Mark:	N/A
Software Version:	HowerbardTXV1 0CCA5B
Hardware Version:	HowerbardTXV1 Howerbard-V3
EUT Power Supply:	Li-ion battery DC 3.7V 380mAh, Charge by DC 5V for adapter

3.3 General Description of 2.4G custom

Operation Frequency:	2450MHz~2470MHz
Modulation Type:	GFSK
Number of Channel:	21
Sample Type:	☒ Mobile ☐ Portable
Antenna Type:	Internal antenna
Antenna Gain:	0 dBi
Cable loss:	1.0 dB

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.

4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

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

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave Dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure

1) For 2.4G custom

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

$$EIRP = E_{Meas} + 20 \log(d_{Meas}) - 104.7$$

where

$EIRP$ is the equivalent isotropically radiated power, in dBm
 E_{Meas} is the field strength of the emission at the measurement distance, in dB μ V/m
 d_{Meas} is the measurement distance, in m

GFSK mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2450MHz)	-3.54	-5.69	-5.5 $\pm$ 1	-4.5	0.35
Middle(2460MHz)	-5.33	-7.48	-7.5 $\pm$ 1	-6.5	0.22
Highest(2470MHz)	-5.00	-7.15	-7.0 $\pm$ 1	-6.0	0.25

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20241002278E-01 for EUT test Max Peak Output Power value.

2) EUT's module is more than 20cm away from the human body.

*** END OF REPORT ***