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RF Exposure Evaluation Report

Report No.:	CQASZ20200900976E-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:	Hover Cross RTF
Model No.:	FHT 1000
Brand Name:	FLI GHT LAB TOYS
FCC ID:	2AXINFHT1000
Standards:	47 CFR Part 1.1307
	47 CFR Part 1.1310
	KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2020-09-03
Date of Test:	2020-09-03 to 2020-09-17
Date of Issue:	2020-09-18
Test Result:	**PASS***

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

Tested By： *Tiny You*

(Tiny You)

Reviewed By: *Sheek Luo*

(Sheek Luo)

Approved By: *Jack Ai*

(Jack Ai)

1   Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20200900976E-02	Rev.01	Initial report	2020-09-18

2   Contents

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:	Shenzhen Ho Li Chuang Electronic Co.,Ltd
Address of Manufacturer:	201, 401, 501, Building A, 1, Xi Hu Tang Street, Pin Dong, Pin Di, Longgang District, Shenzhen

3.2 General Description of EUT

Product Name:	Hover Cross RTF
Model No.:	FHT 1000
Trade Mark:	FLI GHT LAB TOYS
Hardware Version:	V2
Software Version:	V2
Frequency Range:	2450MHz ~ 2470MHz
Modulation Type:	GFSK
Number of Channels:	4 (declared by the client)
Sample Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	RF test (manufacturer declare)
Antenna Type:	Internal Antenna
Antenna Gain:	0dBi
Power Supply:	lithium battery:DC3.7V, Charge by DC5V

4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation[17]
The result is rounded to one decimal place for comparison
The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

4.2 EUT RF Exposure Evaluation

1) For 2.4G

eirp = pt x gt = (E x d)^2/30

where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,   ---$10^{((dB\mu V/m)/20)}$/10^6 ,

d = measurement distance in meters (m)---3m,

So pt = (E x d)^2/30 / gt

The worst case (refer to report CQASZ20200900976E-01) is below:

Antenna polarization: Horizontal		
Frequency (MHz)	Level (dBuV/m)	Polarization
2450	92.96	Peak
2450	89.28	Average

For 2450MHz wireless:

Field strength = 92.96dBµV/m @3m

Ant. gain 0dBi; so Ant numeric gain=1

So pt={[$10^{(92.96/20)}$/10^6x3]^2/30 /1}x1000mW =0.593mW

So (0.593mW/5mm)x √2.450GHz = 0.2,

0.2<3.0 for 1-g SAR

So the SAR report is not required.