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RF Exposure Evaluation Report

Report No.: CQASZ20230500757E-02

Applicant: Shenzhen Hollyland Technology Co., Ltd

Address of Applicant: 8F, Building 5D, Skyworth Innovation Valley, Tangtou Road. Shiyan Street,

Baoan District Shenzhen, China.

Equipment Under Test (EUT):

EUT Name: Lark C1

Model No.: Lark C1, Lark M1, Lark C2

Test Model No.: Lark C1

Brand Name: HOLLYLAND, HOLLYVIEW

FCC ID: 2ADZC-6501R

Standards: 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2023-05-11

Date of Test: 2023-05-11 to 2023-05-22

Date of Issue: 2023-05-29

Test Result: PASS*

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

lewis 2h0u Tested By:

(Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By:

(Jack Ai)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.





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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20230500757E-02	Rev.01	Initial report	2023-05-29





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3 General Information

3.1 Client Information

Applicant:	Shenzhen Hollyland Technology Co., Ltd
Address of Applicant:	8F, Building 5D, Skyworth Innovation Valley, Tangtou Road. Shiyan Street, Baoan District Shenzhen, China.
Manufacturer:	Shenzhen Hollyland Technology Co., Ltd
Address of Manufacturer:	8F, Building 5D, Skyworth Innovation Valley, Tangtou Road. Shiyan Street, Baoan District Shenzhen, China.
Factory:	Shenzhen Hollyland Technology Co., Ltd
Address of Factory:	8F, Building 5D, Skyworth Innovation Valley, Tangtou Road. Shiyan Street, Baoan District Shenzhen, China.

3.2 General Description of EUT

Product Name:	Lark C1
Model No.:	Lark C1, Lark M1, Lark C2
Test Model No.:	Lark C1
Trade Mark:	HOLLYLAND, HOLLYVIEW
Software Version:	V0018
Hardware Version:	V2.0
Sample Type:	☐ Mobile ☑ Portable
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Modulation Type:	GFSK
Antenna Type:	Chip antenna
Antenna Gain:	3.18dBi
Power Supply:	Power by DC 3.7V for phone



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4 SAR 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)] $\sqrt{f(GHz)} \le 3.0$ 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 calculation¹⁷

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



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4.1.3 EUT RF Exposure

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 = $(E \times d)^2/30 / gt$

Antenna polarization: Horizontal			
Frequency (MHz)	Level (dBuV/m)	Polarization	
2402	91.73	Peak	
2402	86.41	Average	

Antenna polarization: Vertical				
Frequency (MHz)	Level (dBuV/m)	Polarization		
2440	87.60	Peak		
2440	83.84	Average		

For 2402MHz wireless:

Field strength = 91.73dBµV/m @3m

Ant. gain 3.18dBi; so Ant numeric gain=2.08

So pt= ${[10^{(91.73/20)}/10^6x3]^2/30 /2.08}x1000mW = 0.215mW$

So $(0.215 \text{mW/5mm})x \sqrt{0.3142 \text{GHz}} = 0.024$,

0.024<3.0 for 1-g SAR

So the SAR report is not required.