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RF Exposure Evaluation Report

Report No.:	CQASZ20201001255E-04
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:	WIRELESS MICROPHONE
Model No.:	LARK 150, LARK 150 S, LARK 150 SE, LARK 150 Lite, LARK 150 PRO
Test Model No.:	LARK 150
Brand Name:	HOLLYLAND
FCC ID:	2ADZC-6901AT
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2020-10-23
Date of Test:	2020-10-27 to 2020-11-17
Date of Issue:	2020-11-17
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)

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20201001255E-04	Rev.01	Initial report	2020-11-17

2 Contents

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:	WIRELESS MICROPHONE
Model No.:	LARK 150, LARK 150 S, LARK 150 SE, LARK 150 Lite, LARK 150 PRO
Test Model No.:	LARK 150
Trade Mark:	HOLLYLAND
Hardware Version:	F782350058
Software Version:	V1.0.4.3
Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	26
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	RF Test (manufacturer declare)
Antenna Type:	Integral antenna
Antenna Gain:	0dBi
EUT Power Supply:	lithium battery:DC3.7V, Charge by DC5.0V

Note:

Model No.: LARK 150, LARK 150 S, LARK 150 SE, LARK 150 Lite, LARK 150 PRO

Only the model LARK 150 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being model name.

RF Exposure Evaluation Report

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)] · [√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

4.1.3 EUT RF Exposure

Measurement Data

ANT 1

GFSK mode						
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest(2402MHz)	6.44	7.0±1	8.0	6.310	1.956	3.0
Middle(2440MHz)	7.06	7.0±1	8.0	6.310	1.972	
Highest(2480MHz)	6.41	7.0±1	8.0	6.310	1.987	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

ANT 2

GFSK mode						
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest(2402MHz)	7	7.5±1	8.5	7.079	2.194	3.0
Middle(2440MHz)	7.63	7.5±1	8.5	7.079	2.212	
Highest(2480MHz)	7.89	7.5±1	8.5	7.079	2.230	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20201001255E-03