

RF Exposure Evaluation Report

Product Name : LinkCard
Model No. : IXWW22
FCC ID : IPH-04150

Applicant : Garmin International, Inc.
Address : 1200 E. 151st Street Olathe, KS 66062 United States

Date of Receipt : Jun. 17, 2021
Date of Declaration : Sep. 02, 2021
Report No. : 2160704R-RFUSMPEV03-A
Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

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Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Issued Date: Sep. 02, 2021

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Product Name	LinkCard	
Applicant	Garmin International, Inc.	
Address	1200 E. 151st Street Olathe, KS 66062 United States	
Manufacturer	Garmin International, Inc.	
Model No.	IXWW22	
FCC ID.	IPH-04150	
Trade Name	GARMIN	
Applicable Standard	KDB 447498 D01 v06	<input type="checkbox"/> Minimum test separation distance ≥ 20 cm <input checked="" type="checkbox"/> For low power devices
Test Result	Complied	

Documented By :

Ida Tung

(Project Specialist / Ida Tung)

Tested By :

wen Lee

(Supervisor / Wen Lee)

Approved By :

Tim Sung

(Manager / Tim Sung)

Revision History

Report No.	Version	Description	Issued Date
2160704R-RFUSMPEV03-A	V1.0	Initial issue of report.	Sep. 02, 2021

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	LinkCard
Trade Name	GARMIN
Model No.	IXWW22
FCC ID.	IPH-04150
Frequency Range	2402-2480MHz
Channel Separation	2MHz
Channel Number	BT: 79, BLE: 40CH
Type of Modulation	FHSS: GFSK(1Mbps) / π /4DQPSK(2Mbps) / 8DPSK(3Mbps) Bluetooth V4.2: GFSK (1Mbps)
Antenna Type	Chip Antenna
Antenna Gain	Refer to the table "Antenna List"
Contain Module	Cypress / CYW89820

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	INPAQ	VGAP-CLA-AS-A1	Chip Antenna	1.46 dBi for 2.4 GHz

2. RF Exposure Evaluation

2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 ($\text{Power(mW)}/\text{separation (mm)}*\sqrt{f(\text{GHz})}\leq 3.0$), SAR is required as shown in the table below where calculated values are greater than 3.0:

Operation frequency = 2450MHz and antenna separation distance = 5mm

Body SAR Test Exclusion Threshold = 10mW

Frequency Band (MHz)	Maximum peak output power Peak Gain: 1.46dBi			SAR Test Exclusion Threshold	Calculated Threshold Value (≤ 3.0 SAR is not required)
	conducted (dBm)	EIRP (dBm)	EIRP (mW)	(mW)	
2441	3.16	4.62	2.90	10	0.905

Note1: The SAR/MPE measurement is not necessary.

Note2: The maximum peak output power is refer to report No.: 2160704R-E3032110108, 2160704R-E3032110108-A from the DEKRA.