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RF Exposure Evaluation Report

Report No.: Applicant: Address of Applicant:	CQASZ20220500740E-02 Shenzhen I-Link Technology CO., LTD. Floor B2, Block 1,Yongqi Technopark, Yintian Industrial park, Xixiang Tov Baoan district, Shenzhen, P.R.China			
Equipment Under Test (EU	т):			
EUT Name:	Stereo Bluetooth Transmitter			
Test Model No.:	LK-DG01, LK-DG02, LK-DG03, LK-DG04, LK-DG05, ZM00DG01			
Model No.:	LK-DG01			
Brand Name:	N/A			
FCC ID: Standards:	RCT-LKDG01 47 CFR Part 1.1307 47 CFR Part 2.1093 447498 D04 Interim General RF Exposure Guidance v01			
Date of Receipt:	2022-05-06			
Date of Test:	2022-05-06 to 2022-05-23			
Date of Issue:	2022-05-24			
Test Result:	PASS*			

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

lewis zhou Tested By: (Lewis Zhou) Reviewed By: (Rock Huang) Approved By: (Jack Ai)

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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date	
CQASZ20220500740E-02	Rev.01	Initial report	2022-05-24	



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3 General Information

3.1 Client Information

Applicant:	Shenzhen I-Link Technology CO., LTD.
Address of Applicant:	Floor B2, Block 1, Yongqi Technopark, Yintian Industrial park, Xixiang Town, Baoan district, Shenzhen, P.R.China
Manufacturer:	Shenzhen I-Link Technology CO., LTD.
Address of Manufacturer:	Floor B2, Block 1, Yongqi Technopark, Yintian Industrial park, Xixiang Town, Baoan district, Shenzhen, P.R.China
Factory:	Shenzhen I-Link Technology CO., LTD.
Address of Factory:	Floor B2, Block 1, Yongqi Technopark, Yintian Industrial park, Xixiang Town, Baoan district, Shenzhen, P.R.China

3.2 General Description of EUT

Product Name:	Stereo Bluetooth Transmitter					
Model No.:	LK-DG01, LK-DG02, LK-DG03, LK-DG04, LK-DG05, ZM00DG01					
Test Model No	LK-DG01					
Trade Mark:	N/A					
EUT Supports Radios application:	Bluetooth mode 2402-2480MHz					
Software Version:	DG01_V2.30.08					
Hardware Version:	Link-DG01-V2.0 2021-08-13					
Sample Type:						
EUT Power Supply:	Power by computer					

3.3 General Description of BT

Operation Frequency:	2402MHz~2480MHz			
Bluetooth Version:	V5.0			
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)			
Modulation Type:	GFSK, π/4DQPSK, 8DPSK			
Number of Channel:	79			
Transfer Rate:	1Mbps/2Mbps/3Mbps			
Test Software of EUT:	FCC_Test_Tools_V2.22			
Antenna Type:	FPC antenna			
Antenna Gain:	-2 dBi			





4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

447498 D04 Interim General RF Exposure Guidance v01

3.2. SAR Test Reduction Guidance

SAR test reduction procedures [Glossary] allow using a particular set of test data as representative of other, similar, test conditions. This may be applied for data within different test positions (e.g. body, head, extremity), wireless modes (e.g. Wi-Fi, cellular), and frequency bands. This test reduction process provides for the use of test data for one specific channel, while referencing to those data for demonstrating compliance in other required channels for each test position of an exposure condition, within the operating mode of a frequency band. This is limited specifically to when the reported 1-g or 10-g SAR for the mid-band or highest output power channel meets any of the following conditions.

4.1.2 Limits

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time₁ averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of λ /4.

As for devices with antennas of length greater than λ /4 where the gain is not well defined, but always less than that of a half-wave dipole (length λ /2), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).



$$P_{\rm th} \,({\rm mW}) = \begin{cases} ERP_{20\,\rm cm} (d/20\,\rm cm)^x & d \le 20\,\rm cm \\ \\ ERP_{20\,\rm cm} & 20\,\rm cm < d \le 40\,\rm cm \end{cases}$$
(B.2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20} \operatorname{cm}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

					Di	stance	(mm)				
		5	10	15	20	25	30	35	40	45	50
(Z	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
enc	1900	3	12	26	44	66	92	122	157	195	236
Frequency	2450	3	10	22	38	59	83	111	143	179	219
Fr	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

Table B.2-Example Power Thresholds (mW)



4.1.3 EUT RF Exposure

Measurement Data

Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power (mW)	Exclusion threshold (mW)
Lowest (2402MHz)	-0.73	0.845	
Middle (2441MHz)	0.12	1.028	3.0
Highest (2480MHz)	0.36	1.086	

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20220500740E-01.

*** END OF REPORT ***