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RF Exposure Evaluation Report

Report No. :	CQASZ20210300015EX-02
Applicant:	GL Grup-2015 Ltd.
Address of Applicant:	36 Vasil Levski street, 5370 Dryanovo Bulgaria
Manufacturer:	GL Grup-2015 Ltd.
Address of Manufacturer:	36 Vasil Levski street, 5370 Dryanovo Bulgaria
Equipment Under Test (EUT):	
Product:	Wireless headphone
All Model No.:	2AYL2-P1, 2AYL2 -P2, 2AYL2 -P1 Kids, 2AYL2 -P2 Kids, 2AYL2-CD ANC, 2AYL2-P6 ANC, 2AYL2-Edge
Test Model No.:	2AYL2-P1
Brand Name:	PowerLocus
FCC ID:	2AYL2-P1
Standards:	47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498D01 General RF Exposure Guidance v06
Date of Test:	2021-03-09 to 2021-04-06
Date of Issue:	2021-04-06
Test Result :	**PASS**

Tested By: Jun Li

(Jun Li)

Reviewed By: Ares Liu

(Ares Liu)

Approved By: Sheek Luo

(Sheek Luo)

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD. 华夏准测 APPROVED

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210300015EX-02	Rev.01	Initial report	2021-04-06

2 Contents

3 General Information

3.1 Client Information

Applicant:	GL Grup-2015 Ltd.
Address of Applicant:	36 Vasil Levski street, 5370 Dryanovo Bulgaria
Manufacturer:	GL Grup-2015 Ltd.
Address of Manufacturer:	36 Vasil Levski street, 5370 Dryanovo Bulgaria

3.2 General Description of EUT

Product Name:	Wireless headphone
All Model No.:	2AYL2-P1, 2AYL2 -P2, 2AYL2 -P1 Kids, 2AYL2 -P2 Kids, 2AYL2-CD ANC, 2AYL2-P6 ANC, 2AYL2-Edge
Test Model No.:	2AYL2-P1
Trade Mark:	PowerLocus
Hardware Version:	V1.5
Software Version:	VER01
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK
Transfer Rate:	1Mbps/2Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	PCB antenna
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Power Supply:	DC 3.7V from battery
Adapter Information:	AC/DC ADAPTER MODEL: GA0501500 INPUT:110-240V AC 50/60Hz 0.6A OUTPUT: DC 5V 1000mA

Note:

All model: 2AYL2-P1, 2AYL2 -P2, 2AYL2 -P1 Kids, 2AYL2 -P2 Kids, 2AYL2-CD ANC, 2AYL2-P6 ANC, 2AYL2-Edge

Only the model 2AYL2-P1 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being model name.

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 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

4.1.3 EUT RF Exposure

1) For BT

Measurement Data

GFSK mode				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	7.113	7±1	8	6.310
Middle(2441MHz)	6.873	7±1	8	6.310
Highest(2480MHz)	6.507	7±1	8	6.310
π/4DQPSK mode				
Lowest(2402MHz)	7.916	8±1	9	7.943
Middle(2441MHz)	7.580	8±1	9	7.943
Highest(2480MHz)	7.218	8±1	9	7.943

Worst case: π/4DQPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tuneup Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	7.916	8±1	9	7.943	2.462	3.0
Middle (2441MHz)	7.580	8±1	9	7.943	2.482	
Highest (2480MHz)	7.218	8±1	9	7.943	2.502	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20210300015EX-01