Shenzhen Huaxia Testing Technology Co., Ltd

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640
Fax: +86-755-26648637
Website: www.cqa-cert.com

Report Template Version: V03
Report Template Revision Date: Mar.1st, 2017

RF Exposure Evaluation Report

Report No. :	CQASZ20190500016EX-02
Applicant:	Shanghai Jiangchuan International Trade Co.,Ltd.
Address of Applicant:	Room 510, Chenxing Building, No.1023 Qinghu Road, Qingpu District, Shanghai, China
Manufacturer:	Quanzhou Dongyin Electronic CO.,LTD
Address of Manufacturer:	No. 1143 Nanhuan Road, Licheng District, Quanzhou City, Fujian Province, China
Equipment Under Test (EUT):	
Product:	Bluetooth Speakers
Model No.:	DYE-BL13-71
Brand Name:	N/A
FCC ID:	2AS9G-DYEBL13
Standards:	47 CFR Part 15, Subpart C
Date of Test:	2019-04-27 to 2019-05-06
Date of Issue:	2019-05-06
Test Result :	**PASS***

Tested By： (Daisy Qin)

Reviewed By: (Aaron Ma)

Approved By: (Jack Ai)

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

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.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20190500016EX-02	Rev.01	Initial report	2019-05-06

2 Contents

3 General Information

3.1 Client Information

Applicant:	Shanghai Jiangchuan International Trade Co.,Ltd.
Address of Applicant:	Room 510, Chenxing Building, No.1023 Qinghu Road, Qingpu District, Shanghai, China
Manufacturer:	Quanzhou Dongyin Electronic CO.,LTD
Address of Manufacturer:	No. 1143 Nanhuan Road, Licheng District, Quanzhou City, Fujian Province, China

3.2 General Description of EUT

Product Name:	Bluetooth Speakers
Test Model No.:	DYE-BL13-71
Trade Mark:	N/A
Hardware Version:	V2.0
Software Version:	V2.4
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.2
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
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
EUT Power Supply:	battery:DC3.7V

Note:

There are many products, Only the model GDI-EXSNDST800 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.

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

1) For BT

Measurement Data

GFSK mode						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-1.129	-1	-1	0.794	0.246	3.0
Middle (2441MHz)	-1.290	-1	-1	0.794	0.248	
Highest (2480MHz)	-0.448	0	0	1.000	0.315	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

π/4DQPSK mode						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-0.313	0	0	1.000	0.310	3.0
Middle (2441MHz)	-0.262	0	0	1.000	0.312	
Highest (2480MHz)	0.441	0.5	0.5	1.122	0.353	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20190500016EX-01