ISED RF EXPOSURE REPORT

Applicant	:	LOUD AUDIO, LLC
Address of Applicant	:	19820 North Creek Parkway, Suite #201, Bothell, WA 98011-8227, USA
Manufacturer	:	LOUD AUDIO, LLC
Address of Manufacturer	:	19820 North Creek Parkway, Suite #201, Bothell, WA 98011-8227, USA
Equipment under Test	:	COMPACT ADAPTIVE DIGITAL MIXER
Model No.	:	DLZ CREATOR XS
IC	:	12714A-DLZXS
Test Standard(s)	:	RSS-102 Issue 5 March 19, 2015.Amendment 1(February:2,2021)
Report No.	:	DDT-RE23083010-2E03
Issue Date	:	2023/11/20
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd.
Address of Laboratory	:	Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Standard Used: RSS-102 Issue 5 March 19, 2015.Amendment 1(February:2,2021)

We Declare:

The equipment described above is assessed by Guangdong Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Guangdong Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No.:	DDT-RE23083010-2E03		
Date of Receipt:	2023/09/04	**Date of Test:**	2023/09/04-2023/11/17

Prepared By:

Jacky Huang

Jacky Huang/Engineer

Approved By:

GUANGDONG DONGDIAN TESTING SERVICE CO.,LTD. 广东东电检测技术有限公司 Certificate and Report Seal 检验检测专用章

Damon Hu

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2023/11/20	

1. General Information

1.1. Description of equipment

EUT Name	:	COMPACT ADAPTIVE DIGITAL MIXER
Model Number	:	DLZ CREATOR XS
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	DC 18V by external AC/DC Adapter
Radio Specification	:	Bluetooth V5.0 (BR/EDR)
Operation Frequency	:	Bluetooth (BR/EDR/LE): 2402 MHz-2480 MHz
Modulation	:	Bluetooth BR/EDR: GFSK, π/4-DQPSK, 8DPSK
Sample Number	:	S23083010-02

Note 1: EUT is the abbreviation of equipment under test.

Note 2: Simultaneously transmission condition: N/A

Note 3: Band 5600-5650MHz will be disabled when shipped to Canada

Note 4: Antenna information:

Antenna information		
Antenna Type	:	FPCB
Antenna Gain (dBi)	:	2.51

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description	Other
USB cable	/	/	Length: 1.0m, unshielded	/
Switching Power Adapter	GME Technology (Shenzhen) Co., Ltd.	GME36E-180150FDR	Input: 100-240V~ 50-60Hz 1.2A Output: DC 18V/1.5A 27W	Alternative
Switching Model Power Supply	Golden Profit Electronics Ltd	GPE048G-180150-D	Input: 100-240V~ 50/60Hz 1A Output: DC 18V/1.5A 27W	

1.3. Assess laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Unit 2, Building 1,No.17,Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. RF Exposure Evaluation

2.1. Requirement

According to RSS-102 Issue 5 Section 2.5.2 Exemption Limits for Routine Evaluation – RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

● below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);

●at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;

● at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);

● at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2}\ f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;

● at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

2.2. Measurement Result

Mode	Conducted output power (dBm)	Power tune-up (dBm)	Antenna Gain (dBi)	Max E.I.R.P (dBm)	Max E.I.R.P (W)	Limits (W)
BT	3.56	5.00	2.51	7.51	0.056	<2.676

This device is demonstrated compliance of the exemption limits for RF Exposure evaluation.

END OF REPORT