

RF EXPOSURE REPORT

Applicant	:	Lang Beverages SA		
Address of Applicant		Baarerstrasse 125, 6300 Zug, Switzerland		
Manufacturer		Dongguan Yulia Electronic Technology Co.,Ltd		
Address of Manufacturer		Building#2, Huantuo block, Jinlong Industrial Park, Sanzhong, Qingxi, Dongguan, Guangdong, China 523651		
Equipment under Test	••	TheWell 2		
Model No.	• •	C021		
FCC ID	•	2A3UV-C021REV1		
Test Standard(s)		KDB447498 D01 General RF Exposure Guidance v06		
Report No.	••	DDT-RE24061822-1E04		
Issue Date		2024/12/05		
Issue By		Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808		



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Test Report Declare

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Address of Manufacturer	-	Building#2, Huantuo block, Jinlong Industrial Park, Sanzhong, Qingxi, Dongguan, Guangdong, China 523651

Test Standard Used:

KDB447498 D01 General RF Exposure Guidance v06

We Declare:

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

Report No.:	DDT-RE24061822-1E04			
Date of Receipt:	2024/06/20	Date of Test:	2024/07/21-2024/12/05	

Prepared By:

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Jacky Huang

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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	2024/12/05	®
	X Or X Or	*	1

1. General Test Information

1.1. Description of EUT

EUT Name	9	TheWell 2				
Model Number	:	C021				
EUT function description	:	lease reference user manual of this device				
Power Supply	:	AC 120V, 60Hz				
Radio Specification	1	NFC Bluetooth LE 2.4 GHz WLAN				
Operation Frequency		NFC:13.56 MHz Bluetooth LE: 2402MHz-2480MHz 2.4 GHz WLAN:2412MHz-2462MHz				
Antenna	:	NFC: PCB antenna Bluetooth LE & 2.4 GHz WLAN: PCB antenna, max peak gain: 3.26 dBi				

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Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: 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 for FCC

2.1. Assessment procedure

Requirement:

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500		10/	F/1500	30
1500-100000			1.0	30

Calculation method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $S(mW/cm^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

d = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \text{ or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

2.2. Assess result

Mode	Output power (dBm)	Output power (mW)	tune up power (dBm)	tune up power (mW)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
BLE	13.90	0.025	15.00	0.032	3.26	2.12	0.135	1.00
2.4G WLAN	16.14	0.041	17.00	0.050	3.26	2.12	0.211	1.00
NFC	-20.64	0.009	-20.00	0.010	/	/	0.020	13.27

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 $Simultaneous\ transmit\ evaluation\ result\ (worst\ case):\ 0.211/1+0.020/13.27=0.213<1.$

Note:

- 1. The estimation distance is 20 cm
- 2. The NFC PK Output Power=74.56dBuV/m@3m-95.2=-20.64dBm
- 3. EUT does not support BLE and 2.4G WLAN simultaneous transmit, only support BLE and NFC simultaneous transmit or 2.4G WLAN and NFC simultaneous transmit.

Conclusion: MPE evaluation required since transmitter power is below FCC threshold. SAR evaluation is not required.

3. Photos of the EUT

Please refer to DDT-Q24061822-2E appendix I

-----End Report-----