# RF Exposure Evaluation FCC ID: 2BDJMTABP-101

Report No.: DLE-250527019R

Applicant: Atulo Products

Address: 30 Riverdale Ave, Unit 7, Newton, MA 02458

Manufacturer: Glucose Projector Clock, LLC

Address: 800 Ramon St., Mandeville LA 70448

EUT: Digital projector clock

Trade Mark: N/A

Model Number: TABP-101

Date of Receipt: May 20, 2025

Test Date: May 20, 2025 - May 28, 2025

Date of Report: May 29, 2025

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone,

Baolong Street, Longgang District, Shenzhen, Guangdong, China

47CFR§1.1310, 47CFR§1.1307

Applicable Standards: FCC CFR 47 part2 2.1091

KDB 447498 D01 General RF Exposure Guidance v06

Test Result: Pass

Report Number: DLE-250527019R

Prepared (Test Engineer): Alisa Song

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang

Testing Technology

Alisa Sonology

Alisa Sonology

Approved

Approved

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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# 1. Product Information

Product Name:	Digital projector clock			
Trademark	N/A			
Model No.:	TABP-101			
Model Difference	N/A			
	2412~2462 MHz for 802.11b/g/nHT20			
Operation Frequency:	2422~2452 MHz for 802.11nHT40			
	11 Channels for 802.11b/g/n(HT20)			
Channel numbers:	7 channels for 802.11nHT40			
Channel separation:	5MHz			
Madulatian taskaslamı	802.11b: DSSS (CCK, DQPSK, DBPSK)			
Modulation technology:	802.11g/n(20/40): OFDM(QPSK, BPSK, 16-QAM, 64-QAM)			
	802.11b: 11/5.5/2/1Mbps			
Rate of Transmitter	802.11g: 54/48/36/24/18/12/9/6Mbps			
	802.11n: up to 150Mbps			
Antenna Type:	FPC Antenna			
Antenna gain:	0.16dBi			
Power supply:	Input: DC 5V			
Sample Number:	DLE-250527019R01			

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#### Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. The EUT's all information provided by client.

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## 2. Test laboratory information

Test Lab: Shenzhen DL Testing Technology Co., Ltd.

101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong

Report No.: DLE-250527019R

Address: Industrial Zone, Baolong Street, Longgang District, Shenzhen,

Guangdong, China

FCC Test Firm Registration

854456

Number:

CN1307

Designation Number: IC Registered No.:

27485

CAB ID.:

CN0118

#### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y  $\pm$  U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.56dB
2	RF power,conducted	$\pm$ 0.42dB
3	Spurious emissions,conducted	±2.76dB
4	All emissions,radiated(<30MHz)	±3.54dB
5	All emissions,radiated(<1G)	$\pm$ 3.65dB
6	All emissions,radiated(>1G)	±4.89dB
7	Occupied bandwidth	±1.28MHz
8	PSD	±0.69dB
9	Temperature	±0.5° C
10	Humidity	±2%

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#### 4. METHOD OF MEASUREMENT

#### **4.1 APPLICABLE STANDARD**

ANSI C95.1 - 1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

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FCC KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

FCC CFR 47 part1 1.1310: Radio frequency radiation exposure limits

FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

#### 4.2 LIMITS

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)	
	(A) Limits	for Occupational/Controlled	Exposures		
0.3–3.0	614	1.63	*(100)	6	
3.0–30	1842/f	4.89/f	4.89/f *(900/f²)		
30–300	61.4	0.163	0.163 1.0		
300–1500			f/300	6	
1500–100,000			5	6	
(B) Limits for General Population/Uncontrolled Exposure					
0.3–1.34	614	1.63	*(100)	30	
1.34–30	824/f	2.19/f	*(180/f²)	30	
30–300	27.5	0.073	0.2	30	
300–1500			f/1500	30	
1500–100,000			1.0	30	

f = frequency in MHz

Friis transmission formula: Pd = (Pout\*G)/(4\*pi\*r2)

#### Where

Pd = power density in mW/cm2, Pout = output power to antenna in mW;

G = gain of antenna in linear scale, Pi = 3.1416;

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

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#### Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

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### **EVALUATION RESULTS**

#### Tune-up Power

2.4G WIFI					
Mode	Frequency	Output power to antenna (dBm)	Output power to antenna (mW)	Max Tune-up Power(dBm) $\pm 1$	Max Tune-up Power(dBm)
802.11b	2412	12.92	19.588	13	14
802.11g	2412	13.95	24.831	14	15
802.11n(HT20)	2462	13.34	21.577	13	14
802.11n(HT40)	2452	13.12	20.512	13	14

#### 2.4G WIFI mode

Mode	Max Output power to antenna (dBm)	Max Output power to antenna (mW)	Power Density at R=20cm (mW/cm²)	Limit (mW/cm²)	Result
802.11b	14	25.119	0.00518	1.0	PASS
802.11g	15	31.623	0.00653	1.0	PASS
802.11n20	14	25.119	0.00518	1.0	PASS
802.11n40	14	25.119	0.00518	1.0	PASS

Remark: antenna gain=0.16dBi So a SAR test is not required

\*\*\*\*END OF REPORT\*\*\*\*

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