



FCC TEST REPORT

FCC ID: 2AAWZ-ZYLOS300

Product	:	Holographic lyric speaker
Model Name	:	Zylo S300
Brand	:	Egreat
Report No.	:	PTC25091218501E-FC04
Prepared for		
Shenzhen Egreat Technology Co., Ltd.		
4/F, 1Building, ShaSan Chuang Ye Industrial Park Sha Jing, Bao An, ShenZhen, China		
Prepared by		
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Report No.: PTC25091218501E-FC04

TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Egreat Technology Co., Ltd.

Address : 4/F, 1Building, ShaSan Chuang Ye Industrial Park Sha Jing, Bao An, ShenZhen, China

Manufacture's name : Shenzhen Egreat Technology Co., Ltd.

Address : A126, No. 4 Haoye Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China.

Product name : Holographic lyric speaker

Model name : Zylo S300

Test procedure : FCC CFR47 Part 1.1307(b)(1)

Test Date : Sep. 16, 2025 to Oct. 11, 2025

Date of Issue : Oct. 11, 2025

Test Result : PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



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Report No.: PTC25091218501E-FC04

2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Holographic lyric speaker
Model Name	:	Zylo S300
Specification	:	Bluetooth BDR+EDR; Bluetooth BLE 802.11b/g/n HT20/HT40
Operation Frequency	:	2402-2480MHz for BT 2412-2462MHz for 802.11b/g/ n(HT20) 2422-2452MHz for 802.11 n(HT40)
Number of Channel	:	79 channels for BDR+EDR 40 channels For DTS 11 channels for 802.11b/g/ n(HT20) 7 channels for 802.11n(HT40)
Type of Modulation	:	GFSK, $\pi/4$ -DQPSK, 8DPSK For DSS GFSK, For DTS DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Antenna installation	:	PCB antenna
Antenna Gain	:	2.75 dBi
Power supply	:	110/220V~50/60HZ 3.0A
Hardware Version	:	N/A
Software Version	:	N/A



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
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			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

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

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2} \theta_{\phi}$$

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

4.4 Test Result

Mode	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
3DH5(2402)	1.88	4.05	4.05±1	3.1989	0.001199	1	Pass
BLE_1M(2480)	1.88	3.73	3.73±1	2.9717	0.001114	1	Pass
11G(2437)	1.88	17.71	17.71±1	74.3019	0.027844	1	Pass

Conclusion:

1. Calculate in the worst-case mode.
2. Max. Tune Up Power is declared by manufacturer, and used to calculate.



4.5 simultaneous MPE Result

3DH5 MPE ratio	2.4G Wi-Fi (11G_2437) MPE ratio	simultaneous MPE ratio	MPE Limits ratio	Test result
0.000948	0.017772	0.029043	1	PASS

Conclusion:

Both of the BT (2.4 GHz) and WLAN (2.4GHz) can transmit simultaneously, the formula of calculated the exposure is:

$$(CPD1/LPD1) + (CPD2/LPD2) + \dots \text{etc.} < 1$$

CPD=Calculation Power Density; LPD= Limit of Power Density

Therefore, the calculation of this situation is $(0.001199/1) + (0.027844/1) = 0.029043$.

which is less than the "1" limit.

*******THE END REPORT*******