

# FCC RF EXPOSURE REPORT

**FCC ID: 2BARQ-STONE620**

Test Report No.....: POC230904012-S001

Product(s) Name.....: Bluetooth Speaker

Model(s).....: Stone 620, YF25

Trade Mark.....: boAt

Applicant.....: Imagine Marketing Ltd.

Address.....: E Wing, 2nd Floor, Corporate Avenue AG Road Opp. Satellite Gazebo Andheri  
East, Mumbai, India


Receipt Date.....: 2023.09.04

Test Date.....: 2023.09.13~2023.09.20

Issued Date.....: 2023.09.21

Standards.....: CFR47 FCC Part 1: Section 1.1310; CFR47 FCC Part 2: Section 2.1093  
FCC KDB Publication 447498 D04; FCC KDB Publication 865664 D02 v01r02

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
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## 1. TEST FACILITY

Company:	Shenzhen Haiyun Standard Technical CO., Ltd.
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## 2. MPE CALCULATION METHOD

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and  $f$  is in GHz,  $d$  is the separation distance (cm), and  $ERP_{20 \text{ cm}}$  is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

$$ERP/EIRP = P_T + G_T - L_C$$

ERP/EIRP is the equivalent (or effective) radiated power [in same units as  $P_T$ , typically dBW, dBm, or power spectral density (psd)], relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP).

$P_T$  is the transmitter output power, in dBW, dBm, or psd (power over a specified reference bandwidth).

$G_T$  is the gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP).

$L_C$  is the signal attenuation in the connecting cable between the transmitter and the antenna, in dB.

➤ **Table for Filed Antenna**

For BDR+EDR & BLE

Ant.	Brand	Antenna Type	Connector	Gain (dBi)
1	N/A	PCB	N/A	-0.58

### 3. TEST RESULTS

Worse case data:

Mode	Output power to antenna (dBm)	Ant gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP(mw)	Distance (cm)	Pth (mW)
BDR+EDR	2.35	-0.58	1.77	-0.38	0.92	0.5	2.79
BLE	2.49	-0.58	1.91	-0.24	0.95	0.5	2.79

Note:

1. ERP = EIRP -2.15 dB
2. 0.92mW<2.79mW
3. 0.95mW<2.79mW

➤ **Conclusion**

The SAR evaluation is not required

## Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technology Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

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