



RF Exposure Evaluation

FCC ID: 2BLQU-ERAZERHT88

Applicant: Guangzhou Asia Shida Trading Co., Ltd

Address: Room 408, 906 Congyun Road, Yongping Street, Baiyun District, Guangzhou City, Guangdong Province, China

Manufacturer: Dingju Innovation (Beijing) Technology Co., Ltd

Address: Lenovo Headquarters E5, No.10 Xibeiwang East Road, Haidian District, Beijing

EUT: Bluetooth Earphone

Trade Mark: Eraser

Model Number: ERAZER HT88, HT08, HT28, HT01, HT58, HT66, HT68, HT80, HT82, HT85, HT86, HT88, HT96, HT99, QT01, QT02, QT03, QT05, QT06, QT08, QT09, QT60, QT80, QT81, QT82, QT83, QT86, QT88

Date of Receipt: Apr. 18, 2025

Test Date: Apr. 18, 2025 – May. 06, 2025

Date of Report: May. 06, 2025

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Applicable Standards: 47CFR§1.1310, 47CFR§2.1093
KDB 447498 D01 General RF Exposure Guidance v06

Test Result: Pass

Report Number: DLE-250423002R-1

Prepared by(Engineer): Ken Tan

Reviewer(Supervisor): Jack Bu

Approved(Manager): Jade Yang



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. TEST FACILITY

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

101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1

Address: Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB ID.: CN0118

1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	$\pm 2.56\text{dB}$
2	RF power,conducted	$\pm 0.42\text{dB}$
3	Spurious emissions,conducted	$\pm 2.76\text{dB}$
4	All emissions,radiated(<1G)	$\pm 3.65\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$
8	20dB Bandwidth	$\pm 0.2\text{MHz}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name:	Bluetooth Earphone
Model No.:	ERAZER HT88
Sample ID:	DLE-250423002-001#
Serial No.:	HT08, HT28, HT01, HT58, HT66, HT68, HT80, HT82, HT85, HT86, HT88, HT96, HT99, QT01, QT02, QT03, QT05, QT06, QT08, QT09, QT60, QT80, QT81, QT82, QT83, QT86, QT88
Model Difference	All the same except the model number and the colour.
Operation Frequency:	2402~2480MHz
Channel numbers:	79 Channels
Channel separation:	1M/2M/3M
Modulation technology:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Type:	Chip Antenna
Antenna gain:	1.55 dBi
Power supply:	DC 5V from adapter input AC 120V/60Hz or DC3.7V from battery

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.



3. METHOD OF MEASUREMENT

3.1 3.1 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.

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

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices

3.2 EVALUATION METHOD AND LIMIT

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures.

When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc."

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f} \text{ (GHz)}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$$

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f in section 4.1 is applied to determine SAR test exclusion.

When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion.

The $[\sum \text{ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / } 1.6 \text{ W/kg}] + [\sum \text{ of MPE ratios}] \leq 1.0$.

The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the $[\sum \text{ of MPE ratios}] \leq 1.0$.



4. EVALUATION RESULTS

4.1 STANDALONE EVALUATION

For 2.4G

tune-up power. (dBm)	Max. tune-up power. (dBm)	Tune-up power. (mW)	Frequency (MHz)	Min. distance(mm)	Calc. thresholds	Limit
4.96±1	5.96	3.945	2480	5	1.242	3.0

Note: Result= $P\sqrt{F}/D$

P=Maximum turn-up power in mW

F=Channel frequency in GHz

D=Minimum test separation distance in mm

So a SAR test is not required

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