



RF Exposure Evaluation Report

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|------------------------------|--|
| Application No.: | DNT230897R1048-1446 |
| Applicant: | Xi'an manyou Electronic Technology Co., Ltd. |
| Address of Applicant: | Room 41101, Building 1, Ziwei City Garden, No. 125 dianzi Street, Yanta District, Xi'an City, Shaanxi Province |
| EUT Description: | ENC Bluetooth Headphones |
| Model No.: | MY-H16 |
| FCC ID: | 2BDLU-MYH16 |
| Power supply | DC 3.7V From Battery |
| Charging Voltage: | DC 5V |
| Standards: | 47 CFR Part 2.1093 FCC KDB 447498 D01 v06 |
| Trade Mark: | N/A |
| Date of Receipt: | 2023/12/04 |
| Date of Test: | 2023/12/04 to 2023/12/05 |
| Date of Issue: | 2023/12/06 |
| Test Result : | PASS * |

Prepared By: Wayne Lin (Testing Engineer)

Reviewed By: Pencils Chen (Project Engineer)

Approved By: Wick Feng (Manager)



Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

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**Report Revise Record**

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|--------------|---------------|-----------------|
| V2.0 | / | Dec.06, 2023 | Valid | Original Report |



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1 General Information

1.1 Test Location

| | |
|----------------|--|
| Company: | Dongguan DN Testing Co., Ltd |
| Address: | No. 1, West Fourth Street, South Xingfa Road, Wusha Liwu, Chang 'an Town, Dongguan City, Guangdong P.R.China |
| Test engineer: | Wayne Lin |

1.2 General Description of EUT

| | |
|----------------------|---|
| EUT Description:: | ENC Bluetooth Headphones |
| Model No.: | MY-H16 |
| Additional Model(s): | MY-H01,MY-H02,MY-H03,MY-H04,MY-H05,MY-H06,MY-H07,MY-H08,MY-H09,MY-H10,MY-H11,MY-H12,MY-H13,MY-H14,MY-H15,MY-H17,MY-H18,MY-H19,MY-H20,MY-H21,MY-H22,MY-H23,MY-H24,MY-H25,MY-H26,MY-H27,MY-H28,MY-H29,MY-H30,MY-H31,MY-H32,MY-H33,MY-H34,MY-H35,MY-H36,MY-H37,MY-H38,MY-H39,MY-H40,MY-H41,MY-H42,MY-H43,MY-H44,MY-H45,MY-H46,MY-H47,MY-H48,MY-H49,MY-H50,MY-H51,MY-H52,MY-H53,MY-H54,MY-H55,MY-H56,MY-H57,MY-H58,MY-H59,MY-H60,MY-H61,MY-H62,MY-H63,MY-H64,MY-H65,MY-H66,MY-H67,MY-H68,MY-H69,MY-H70,MY-H71,MY-H72,MY-H73,MY-H74,MY-H75,MY-H76,MY-H77,MY-H78,MY-H79,MY-H80,MY-H81,MY-H82,MY-H83,MY-H84,MY-H85,MY-H86,MY-H87,MY-H88,MY-H89,MY-H90,MY-H91,MY-H92,MY-H93,MY-H94,MY-H95,MY-H96,MY-H97,MY-H98,MY-H99 |
| Chip Type: | AB5632C |
| Serial number: | SP2301204011 |
| Power Supply: | DC 3.7V From Battery |
| Charging Voltage: | DC 5V |
| Trade Mark: | MANAYO |
| Hardware Version: | V1.0 |
| Software Version: | V1.0 |
| Sample Type: | <input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module |
| Antenna Type: | <input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated |
| Antenna Gain: | <input checked="" type="checkbox"/> Provided by applicant 3.87dBi |

Remark:

*All models are just name differences, motherboard, PCB circuit board, chip, electronic components, appearance is all the same.

*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information , DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



2 RF Exposure Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Limits

Human exposure to RF emissions from portable devices (47 CFR §2.1093), as defined by the FCC, must be evaluated with respect to the FCC-adopted limits for SAR. Evaluation of mobile devices, as defined by the FCC, may also be performed with respect to SAR limits, but in such cases it is usually simpler and more cost-effective to evaluate compliance with respect to field strength or power density limits. For certain devices that are designed to be used in both mobile and portable configurations similar to those described in 47 CFR §2.1091(d)(4), such as certain desktop phones and wireless modem modules, compliance for mobile configurations is also satisfied when the same device is evaluated for SAR compliance in portable configurations.

Refer to 47 CFR §2.1093:

A portable device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that the RF source's radiating structure(s) is/are within 20 centimeters of the body of the user.

Evaluation of compliance with the exposure limits in § 1.1310 of this chapter, and preparation of an EA if the limits are exceeded, is necessary for portable devices having single RF sources with more than an available maximum time-averaged power of 1 mW, more than the ERP listed in Table 1 to § 1.1307(b)(3)(i)(C), or more than the P_{th} in the following formula, whichever is greater. The following formula shall only be used in conjunction with portable devices not exempt by § 1.1307(b)(3)(i)(C) at distances from 0.5 centimeters to 20 centimeters and frequencies from 0.3 GHz to 6 GHz.



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

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 |

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 300 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



2.1.2 Test Procedure

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

2.1.3 EUT RF Exposure Evaluation

| Mode | Fre (MHz) | Peak Conducted output Power (dBm) | Antenna Gain (dBi) | E.R.P (dBm) | Max. Target power (mW) | SAR Test Exemption Limit (mW) |
|----------------|-----------|-----------------------------------|--------------------|-------------|------------------------|-------------------------------|
| GFSK | 2402 | 1.06 | 3.87 | 2.78 | 1.897 | 3 |
| | 2441 | 0.73 | 3.87 | 2.45 | 1.758 | 3 |
| | 2480 | 0.11 | 3.87 | 1.83 | 1.524 | 3 |
| $\pi/4$ -DQPSK | 2402 | 2.88 | 3.87 | 4.60 | 2.884 | 3 |
| | 2441 | 2.54 | 3.87 | 4.26 | 2.667 | 3 |
| | 2480 | 1.84 | 3.87 | 3.56 | 2.270 | 3 |
| 8DPSK | 2402 | 0.42 | 3.87 | 2.14 | 1.637 | 3 |
| | 2440 | 0.13 | 3.87 | 1.85 | 1.531 | 3 |
| | 2480 | -0.63 | 3.87 | 1.09 | 1.285 | 3 |

Note:

1. E.R.P=Conducted output Power+Antenna Gain -2.15.
2. We choose f=2.48GHz (Highest frequency operate at bluetooth) to calculate MPE limit as higher frequency will have lower MPE limits.
3. SAR Test Exclusion Thresholds is 3mW for separation distance 5mm. Therefore, SAR test is not required.

The End Report