

# TEST REPORT

**Product Name** : TV hearMore  
**Brand Mark** : MoerLab  
**Model No.** : ABB01  
**FCC ID** : 2A8MI-ABB01  
**Report Number** : BLA-EMC-202308-A6204  
**Date of Sample Receipt** : 2023/8/23  
**Date of Test** : 2023/9/27 to 2023/12/13  
**Date of Issue** : 2023/12/14  
**Test Standard** : KDB447498D04 General RF Exposure  
Guidance v01  
**Test Result** : Pass

Prepared for:

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Prepared by:

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Date:

2023/12/14



## REPORT REVISE RECORD

| Version No. | Date       | Description |
|-------------|------------|-------------|
| 00          | 2023/12/14 | Original    |

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## TABLE OF CONTENTS

|                                                   |          |
|---------------------------------------------------|----------|
| <b>1 TEST SUMMARY .....</b>                       | <b>4</b> |
| <b>2 GENERAL INFORMATION .....</b>                | <b>5</b> |
| <b>3 GENERAL DESCRIPTION OF E.U.T.....</b>        | <b>5</b> |
| <b>4 LABORATORY LOCATION .....</b>                | <b>6</b> |
| <b>5 RF EXPOSURE COMPLIANCE REQUIREMENT .....</b> | <b>7</b> |
| 5.1 STANDARD REQUIREMENT .....                    | 7        |
| 5.2 LIMITS .....                                  | 7        |

## 1 TEST SUMMARY

| Test item   | Test Requirement | Test Method        | Class/Severity     | Result |
|-------------|------------------|--------------------|--------------------|--------|
| RF Exposure | KDB 447498       | CFR 47 Part 2.1093 | CFR 47 Part 2.1093 | PASS   |

## 2 GENERAL INFORMATION

|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| <b>Applicant</b>      | Jiang Su Yisin Tech Co., Ltd                                                     |
| <b>Address</b>        | Rm. 103, Bldg. 1, No. 10, Wenzhou Rd., ETDZ, Shuyang County, Suqian, Jiangsu, CN |
| <b>Manufacturer</b>   | Jiang Su Yisin Tech Co., Ltd                                                     |
| <b>Address</b>        | Rm. 103, Bldg. 1, No. 10, Wenzhou Rd., ETDZ, Shuyang County, Suqian, Jiangsu, CN |
| <b>Factory</b>        | Jiang Su Yisin Tech Co., Ltd                                                     |
| <b>Address</b>        | Rm. 103, Bldg. 1, No. 10, Wenzhou Rd., ETDZ, Shuyang County, Suqian, Jiangsu, CN |
| <b>Product Name</b>   | TV hearMore                                                                      |
| <b>Test Model No.</b> | ABB01                                                                            |

## 3 GENERAL DESCRIPTION OF E.U.T.

|                             |                                                               |
|-----------------------------|---------------------------------------------------------------|
| <b>Hardware Version</b>     | V3.2                                                          |
| <b>Software Version</b>     | V3.6.2                                                        |
| <b>Operation Frequency:</b> | 2402MHz-2480MHz                                               |
| <b>Modulation Type:</b>     | BREDR:GFSK,pi/4DQPSK,8DPSK<br>BLE:GFSK(Data Rate:1Mbps;2Mbps) |
| <b>Channel Spacing:</b>     | BREDR:1MHz<br>BLE:2MHz                                        |
| <b>Number of Channels:</b>  | BREDR:79<br>BLE:40                                            |
| <b>Antenna Type:</b>        | External Antenna                                              |
| <b>Antenna Gain:</b>        | 2.33dBi(Provided by the customer)                             |

#### 4 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

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No tests were sub-contracted.

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## 5 RF EXPOSURE COMPLIANCE REQUIREMENT

### 5.1 STANDARD REQUIREMENT

According to 447498 D04 Interim General RF Exposure Guidance v01

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 Exclusion Threshold condition, listed below, is satisfied.

### 5.2 LIMITS

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

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).

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 |

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

Ant gain = 2.33dBi

BREDR:

Max Output power = -0.449dBm @EDR@ 2480MHz

ERP = -0.449dBm + 2.33dBi - 2.15 = -0.269dBm

So worse case:  $10^{-0.0269} = 0.940\text{mW} < 2.7\text{ mW}$

Comply with RF exposure exemption limit.

BLE:

Max Output power = -0.696dBm @BLE 1M@ 2480MHz

ERP = -0.696dBm + 2.33dBi - 2.15 = -0.516dBm

So worse case:  $10^{-0.0516} = 0.888\text{mW} < 2.7\text{ mW}$

Comply with RF exposure exemption limit.

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

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