

## RF Exposure Evaluation Report

**Report Reference No.**.....: **MTEB24070261-H**

**FCC ID**.....: **2BFHZ-S1PRO**

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**Applicant's name**.....: **Ningbo Mohang Intelligent Technology Co., Ltd**

Address .....: Room 1-2346, 1st Floor, Building 41, Block B, No.188 Jinghua  
Road, Ningbo High-tech Zone, Zhejiang Province

**Test specification/ Standard** .....: **47 CFR Part 1.1307**

**47 CFR Part 2.1093**

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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**Test item description** .....: **HELMET WIRELESS EARPHONE**

Trade Mark .....:



Model/Type reference.....: **BLAISE S1 PRO**

Listed Models .....: **S1PRO、S2 PRO、S3 PRO、S4 PRO、S5 PRO、R1PRO、  
R2 PRO、R3 PRO、R4 PRO、R5 PRO**

Modulation Type.....: **GFSK, π/4DQPSK, 8DPSK**

Operation Frequency.....: **From 2402MHz to 2480MHz**

Hardware Version.....: **V1.3**

Software Version .....: **V1.5**

Rating .....: **DC 3.7V by Battery  
DC 5V by USB Port**

Result.....: **PASS**

## TEST REPORT

Equipment under Test : HELMET WIRELESS EARPHONE

Model /Type : BLAISE S1 PRO

Listed Models : S1PRO、S2 PRO、S3 PRO、S4 PRO、S5 PRO、R1PRO、  
R2 PRO、R3 PRO、R4 PRO、R5 PRO

Remark : Only the model name is different, other designs are the same

Applicant : **Ningbo Mohang Intelligent Technology Co., Ltd**

Address : Room 1-2346, 1st Floor, Building 41, Block B, No.188 Jinghua  
Road, Ningbo High-tech Zone, Zhejiang Province

Manufacturer : **Ningbo Mohang Intelligent Technology Co., Ltd**

Address : Room 1-2346, 1st Floor, Building 41, Block B, No.188 Jinghua  
Road, Ningbo High-tech Zone, Zhejiang Province

<b>Test Result:</b>	<b>PASS</b>
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2024.07.18	Initial Issue	Alisa Luo

## **2. SAR Evaluation**

### **2.1 RF Exposure Compliance Requirement**

#### **2.1.1 Standard Requirement**

According to KDB447498D01 General RF Exposure Guidance v06

##### **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 Exclusion Threshold condition, listed below, is satisfied.

#### **2.1.2 Limits**

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

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

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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 is applied to determine SAR test exclusion

## 2.1.3 EUT RF Exposure

## Measurement Data

## BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	2.643	$2.643 \pm 1$	3.643
Middle(2441MHz)	3.037	$3.037 \pm 1$	4.037
Highest(2480MHz)	2.578	$2.578 \pm 1$	3.578

$\pi$ /4DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	0.163	$0.163 \pm 1$	1.163
Middle(2441MHz)	0.547	$0.547 \pm 1$	1.547
Highest(2480MHz)	0.054	$0.054 \pm 1$	1.054

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	0.611	$0.611 \pm 1$	1.611
Middle(2441MHz)	1.000	$1.000 \pm 1$	2
Highest(2480MHz)	0.518	$0.518 \pm 1$	1.518

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Middle(2441MHz)	3.037	4.037	2.53	0.79	3.0	Yes

.....THE END OF REPORT.....