

## **TEST REPORT**

Product Name : TWS Bluetooth earphones

Brand Mark : N/A

Model No. : BH21QT18B

FCC ID : RDR-BH21QT18BR

Report Number : BLA-EMC-202112-A3803

Date of Sample Receipt : 2021/12/9

**Date of Test** : 2021/12/9 to 2021/12/16

**Date of Issue** : 2021/12/16

**Test Standard** 47 CFR Part 1.1307, Part 2.1093, KDB

447498

Test Result : Pass

Josu Blue Thong

## Prepared for:

# Dongguan Hele Electronics Co.,Ltd No.325 Yuehui Rd. Daojiao Town Dongguan City Guangdong Province China

Prepared by:

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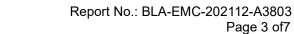


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## **REPORT REVISE RECORD**

Version No.	Date	Description	
00	2021/12/16	Original	







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## 1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS





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## 2 GENERAL INFORMATION

Applicant	Dongguan Hele Electronics Co.,Ltd		
Address	No.325 Yuehui Rd. Daojiao Town Dongguan City Guangdong Province China		
Manufacturer	Dongguan Hele Electronics Co.,Ltd		
Address	No.325 Yuehui Rd. Daojiao Town Dongguan City Guangdong Province China		
Factory	Dongguan Hele Electronics Co.,Ltd		
Address	No.325 Yuehui Rd. Daojiao Town Dongguan City Guangdong Province China		
Product Name	TWS Bluetooth earphones		
Test Model No.	BH21QT18B		

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

Hardware Version	N/A
Software Version	N/A
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	internal Antenna
Antenna Gain:	1.6dBi(Provided by the applicant)



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## **4 LABORATORY LOCATION**

All tests were performed at:

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

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No tests were sub-contracted.





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## 5 RF EXPOSURE COMPLIANCE REQUIREMENT

#### 5.1 STANDARD REQUIREMENT

According to KDB447498D01 General RF Exposure Guidance v06

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

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\sqrt{f(GHz)} \le 3.0$  for 1-g SAR and  $\le 7.5$  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<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  $\leq$  5 mm, a distance of 5 mm is applied to determine SAR test exclusion

## 5.3 EUT RF EXPOSURE

Operational Mode: BT (8DPSK)						
Channel	Maximum Peak Conducted	Tune up tolerance	Maximum tune-up Power		Calculated	Exclusion
Chamilei	Output Power (dBm)	(dB)	(dBm)	(mW)	value	threshold
2402 MHz	3.003	±1	4.003	2.51	0.78	2.0
2441 MHz	1.81	±1	2.81	1.91	0.60	3.0
2480 MHz	1.18	±1	2.18	1.65	0.52	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

### ----END OF REPORT----

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