

RF Exposure Evaluation Report				
Report Reference No	MTEB24020004-H 2BEX4-DK-42AI			
Compiled by ( position+printed name+signature):	File administrators Alisa Luo	/ Sti Sa		
Supervised by ( position+printed name+signature):	Test Engineer Sunny Deng	Same		
Approved by ( position+printed name+signature):	Manager Yvette Zhou	Ja there		
Date of issue	Feb. 01,2024	4/00		
Representative Laboratory Name. :	Shenzhen Most Technology Se	rvice Co., Ltd.		
Address:	No.5, 2nd Langshan Road, North Nanshan, Shenzhen, Guangdong			
Applicant's name	Bokang Technology Co., LTD			
Address:	No.467 Dongwu Road, Yongkang Economic Development Zone, Jinhua City, Zhejiang Province, China			
Test specification/ Standard:	47 CFR Part 1.1307;47 CFR Part 1.1310 KDB447498D01 General RF Exposure Guidance v06			
TRF Originator	Shenzhen Most Technology Service Co., Ltd.			
Shenzhen Most Technology Service This publication may be reproduced in Shenzhen Most Technology Service C material. Shenzhen Most Technology S liability for damages resulting from the placement and context.	whole or in part for non-commercia o., Ltd. is acknowledged as copyrig Service Co., Ltd. takes no responsi	ght owner and source of the bility for and will not assume		
Test item description	Electric Treadmill			
Trade Mark	N/A			
Model/Type reference:	DK-42AI			
Listed Models:	DK-38AB, DK-38AA, AD-4000, DK-40AD, DK-05AK, DK-05AJ, DK- 12AI, DK-12AD, DK-12AF, DK-12AM, DK-19AF, DK-40AA, DK- 40AB, DK-42AD, DK-42AE, DK-42AF, DK-42AJ, DK-42AQ, DK- 42AO, DK-42AR, DK-42AU, DK-42AT, DK-42AK, DK-42AN, DK- 42AL, DK-45AH			
Modulation Type	GFSK			
	GFSK, π/4DQPSK, 8DPSK			
Operation Frequency:	From 2402MHz to 2480MHz			
Hardware Version	1			
Software Version	2.1.4			
Rating	AC 110V 60Hz 800W			
Result				

# **TEST REPORT**

Equipment under Test	:	Electric Treadmill	
Model /Type	:	DK-42AI	
Listed Models	:	DK-38AB, DK-38AA, AD-4000, DK-40AD, DK-05AK, DK-05AJ, DK- 12AI, DK-12AD, DK-12AF, DK-12AM, DK-19AF, DK-40AA, DK- 40AB, DK-42AD, DK-42AE, DK-42AF, DK-42AJ, DK-42AQ, DK- 42AO, DK-42AR, DK-42AU, DK-42AT, DK-42AK, DK-42AN, DK- 42AL, DK-45AH	
Remark		Same product, but different model name	
Applicant	:	Bokang Technology Co., LTD	
Address	:	No.467 Dongwu Road, Yongkang Economic Development Zone, Jinhua City, Zhejiang Province, China	
Manufacturer	:	Bokang Technology Co., LTD	
Address	:	No.467 Dongwu Road, Yongkang Economic Development Zone, Jinhua City, Zhejiang Province, China	

Test Result: PASS
-------------------

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. <u>Revision History</u>

Revision	Issue Date	Revisions	Revised By
00	2024.02.01	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

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

occupational 614 1842/f	/Controlled Exposure	es *(100)	
		*(100)	10
1842/f	1.00/		
.0421	4.89/f	*(900/f2)	
61.4	0.163	1.0	1.9
		f/300	
		5	
eral Populatio	on/Uncontrolled Exp	osure	
			t/300

0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500		******	f/1500	30
1500-100,000			1.0	30

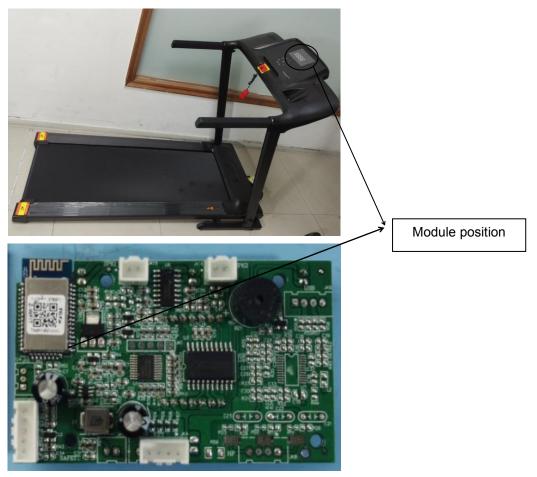
F= Frequency in MHz

Friis Formula Friis Formula Friis transmission formula:  $Pd = (Pout^G)/(4^Pi R 2)$  Where Pd = power density in mW/cm2Pout = output power to antenna in mW G = gain of antenna in linear scalePi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

# 2.1.3 Module position



Note: The Bluetooth module is located on the back of the motherboard of the product screen.Bluetooth module is more than 20cm away from the human body.

## 2.1.4 EUT RF Exposure

Antenna Gain: -1.11dBi

R	ı.	F
D	ᄂ	

GFSK					
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
i est enumer	(dBm)	(dBm)	(dBm)		
Lowest(2402 MHz)	6.950	6.950±1	7.95		
Middle(2440MHz)	7.395	$7.395 \pm 1$	8.395		
Highest(2480MHz)	7.787	$7.787 \pm 1$	8.787		

BLE

	Worst case: GFSK					
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Highest(2480MHz)	8.787	7.56	-1.11dBi	0.0012	1.0	Pass

Note: 1) Refer to report MTEB24020004-R for EUT test Max Conducted average Output Power value. Note: 2) Pd =  $(Pout^*G)/(4^* Pi * R2)=(7.56^*0.77)/(4^*3.1416^*20^2)=0.0012$ Note: 3 )EUT's Bluetooth module is more than 20cm away from the human body.

BT classic

GFSK					
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)		
Lowest(2402MHz)	-0.398	-0.398±1	0.602		
Middle(2441MHz)	0.290	$0.290 \pm 1$	1.29		
Highest(2480MHz)	0.465	$0.465 \pm 1$	1.465		

π /4DQPSK					
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)		
Lowest(2402MHz)	0.539	$0.539 \pm 1$	1.539		
Middle(2441MHz)	1.131	1.131±1	2.131		
Highest(2480MHz)	1.315	1.315±1	2.315		

8DPSK					
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)		
Lowest(2402MHz)	0.957	0.957±1	1.957		
Middle(2441MHz)	1.602	$1.602 \pm 1$	2.602		
Highest(2480MHz)	1.732	1.732±1	2.732		

Worst case: 8DPSK						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Highest(2480MHz)	2.732	1.88	-1.11dBi	0.0003	1.0	Pass

Note: 1) Refer to report MTEB24020004-R1 for EUT test Max Conducted average Output Power value. Note: 2) Pd = (Pout\*G)/(4\* Pi \* R2)=( 1.88\*0.77)/(4\*3.1416\*202)=0.0003 Note: 3 )EUT's Bluetooth module is more than 20cm away from the human body.

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