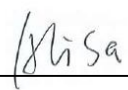

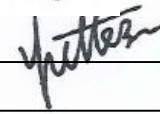




RF Exposure Evaluation Report

Report Reference No.	: MTEB24020010-H	
FCC ID	: 2A2PN-TP2	
Compiled by (position+printed name+signature)..:	File administrators Alisa Luo	
Supervised by (position+printed name+signature)..:	Test Engineer Sunny Deng	
Approved by (position+printed name+signature)..:	Manager Yvette Zhou	
Date of issue.....	: Feb. 01,2024	
Representative Laboratory Name. :	Shenzhen Most Technology Service Co., Ltd.	
Address.....	No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.	
Applicant's name	Ekoo Electronic Co., Ltd.	
Address.....	B09, Block B, F2, Bldg.B, Runfeng Pioneer Park, No.973, Minzhi Avenue, Minzhi St., Longhua, Shenzhen, CN	
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.	
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Test item description	Electric treadmill	
Trade Mark.....	N/A	
Model/Type reference.....	TP2	
Listed Models	PC390	
Modulation Type.....	GFSK GFSK, π/4DQPSK	
Operation Frequency.....	From 2402MHz to 2480MHz	
Hardware Version.....	V16	
Software Version.....	V16	
Rating.....	AC 100-120V 60Hz 600W	
Result.....	PASS	

TEST REPORT

Equipment under Test : Electric treadmill

Model /Type : TP2

Listed Models : PC390

Remark : Multiple model names for the same product

Applicant : Ekoo Electronic Co., Ltd.

Address : B09, Block B, F2, Bldg.B, Runfeng Pioneer Park, No.973, Minzhi Avenue, Minzhi St., Longhua, Shenzhen, CN

Manufacturer : Zhejiang Youbu Sports Good Co., Ltd.

Address : No. 9 Liunan Road, Niubeijin Industrial Zone, Wuyi County, Jinhua City, Zhejiang Province, China

Test Result:	PASS
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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	2024.02.01	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)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	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 transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$ Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

P_d is 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 EUT RF Exposure

Antenna Gain: -0.58dBi

BLE

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402 MHz)	-3.094	-3.094 ± 1	-2.094
Middle(2440MHz)	-4.221	-4.221 ± 1	-3.221
Highest(2480MHz)	-3.772	-3.772 ± 1	-2.772

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/cm ²)	Limit	Result
Lowest(2402 MHz)	-2.094	0.62	0dBi	0.0012	1.0	Pass

Note: 1) Refer to report MTEB24020010-R for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (0.62 * 1) / (4 * 3.1416 * 20^2) = 0.0012$

BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-6.156	-6.156 ± 1	-5.156
Middle(2441MHz)	-6.973	-6.973 ± 1	-5.973
Highest(2480MHz)	-6.412	-6.412 ± 1	-5.412

$\pi/4$ DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-5.304	-5.304 ± 1	-4.304
Middle(2441MHz)	-6.141	-6.141 ± 1	-5.141
Highest(2480MHz)	-5.570	-5.570 ± 1	-4.57

Worst case: $\pi/4$ DQPSK						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Lowest(2402MHz)	-4.304	0.37	0dBi	0.00007	1.0	Pass

Note: 1) Refer to report MTEB24020010-R1 for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (0.37 * 1) / (4 * 3.1416 * 20^2) = 0.00007$ Note:

3) EUT's Bluetooth module is more than 20cm away from the human body.

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