Shenzhen Most Technology Service Co., Ltd.
No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

RF Exposure Evaluation Report

Report Reference No......:	**MTEB22111694-H**	
FCC ID..... **:**	**2A9LT-YXHUBZM-1**	
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.....:	**November 30,2022**	
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.....:	**Shen Zhen Eysltime Intelligent LTD.**	
Address .....:	21 Wulian Road, Longxi Street, Longgang District, Shenzhen Guangdong China	
Test specification/ Standard .....**:**	**47 CFR Part 1.1307** **47 CFR Part 2.1093**	
TRF Originator.....:	Shenzhen Most Technology Service Co., Ltd.	

Test item description .....:	Smart home
Trade Mark .....:	Eysltime
Model/Type reference.....:	YXHUBZM-1
Listed Models .....:	YXZBPIR-1,YXZBD-1,YXZBW-1,YXNETIR-1,YXZBTHP-1,YXZBRB-58,YXZBRB-24,YXZBRB-79,YXZBZHS-A,YXZB86S,YXZB86N
Modulation Type.....:	O-QPSK CCK/DSSS/ OFDM
Operation Frequency.....:	From 2405MHz ~ 2480MHz
Rating .....:	DC 5V by USB Port
Hardware version .....:	1.0
Software version .....:	1.1.9
Result.....:	**PASS**

T E S T R E P O R T

Equipment under Test	:	Smart home
Model /Type	:	YXHUBZM-1
Listed Models	:	YXZBPIR-1,YXZBD-1,YXZBW-1,YXNETIR-1,YXZBTHP-1,YXZBRB-58,YXZBRB-24,YXZBRB-79, YXZBZHS-A,YXZB86S,YXZB86N
Remark	:	Only the model names are different, and everything else is the same.
Applicant	:	Shen Zhen Eysltime Intelligent LTD.
Address	:	21 Wulian Road, Longxi Street, Longgang District, Shenzhen Guangdong China
Manufacturer	:	Shen Zhen Eysltime Intelligent LTD.
Address	:	21 Wulian Road, Longxi Street, Longgang District, Shenzhen Guangdong 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. Revision History

Revision	Issue Date	Revisions	Revised By
00	2022.11.30	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

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: Pd = (Pout*G)/(4* Pi * R 2) Where
Pd = power density in mW/cm2
Pout = output power to antenna in mW
G = gain of antenna in linear scale
Pi = 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 EUT RF Exposure

Measurement Data
Antenna Gain (dBi)：1
O-QPSK

O-QPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2405MHz)	2.784	2.784±1	3.784
Middle(2440MHz)	3.004	3.004±1	4.004
Highest(2480MHz)	3.125	3.125±1	4.125

Worst case: O-QPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum Peak Conducted Output Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Highest(2480MHz)	4.125	2.58	1	0.0006	1.0	Pass

Note: 1) Refer to report **MTEB22111694-R** for EUT test Max Conducted average Output Power value.
Note: 2) Pd = (Pout*G)/(4* Pi * R2)=(2.58*1.25)/(4*3.1416*20^2)=0.0006
Note: 3)EUT's Bluetooth module is more than 20cm away from the human body.

All TX at same time output power:

TX	Maximum Peak Conducted Output Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
BT Antenna	4.5	1	0.081	1.0	Pass
WIFI Antenna	198.6	1			
Zigbee Antenna	2.58	1			

Note: 1) Pd = (Pout*G)/(4* Pi * R2)=(205.68*1.99)/(4*3.1416*20^2)=0.081

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