Shenzhen Most Technology Service Co., Ltd.
East A, 1 floor of New Aolin Factory buiding, Langshan Erlu, North District,
Hi-tech Industry Park, Nanshan,Shenzhen,Guangdong,China

RF Exposure Evaluation Report

Report Reference No..... :	**MTEB25040057-H**
FCC ID..... :	**2BG3B-K3PRO**
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.....:	**Apr.07,2025**
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.....:	**Huizhou Jae Electronics Co., Ltd**
Address..... :	Building C, No. 4, Xingde East Road Dongjiang Hi-tech Industrial Park, Zhongkai High-tech Zone, Huizhou City.
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.

Test item description.....:	Dashcam
Trade Mark.....:	N/A
Model/Type reference..... :	K3pro
Listed Models ..... :	k3, K1, K1pro, K2, k2pro, Z1, Z1pro, Z2, Z2pro, Z3, Z3pro, Y1, Y1pro, Y2, Y2pro
Modulation Type..... :	GFSK b: DSSS ,CCK g/n: BPSK,QPSK,QAM
Operation Frequency..... :	BT: From 2402MHz to 2480MHz WIFI2.4G: From 2412MHz to 2462MHz
Hardware Version.....	V1.0
Software Version.....	V1.0
Rating.....:	DC 12-24V 2-3.5A
Result.....:	**PASS**

T E S T R E P O R T

Equipment under Test	:	Dashcam
Model /Type	:	K3pro
Listed Models	:	k3, K1, K1pro, K2, k2pro, Z1, Z1pro, Z2, Z2pro, Z3, Z3pro, Y1, Y1pro, Y2, Y2pro
Remark		Only the model “ K3pro ” was tested, Their electrical circuit design, layout, components used and internal wiring are identical, Only the model name and Appearance color is different.
Applicant	:	**Huizhou Jae Electronics Co., Ltd**
Address	:	Building C, No. 4, Xingde East Road Dongjiang Hi-tech Industrial Park, Zhongkai High-tech Zone, Huizhou City.
Manufacturer	:	**Huizhou Jae Electronics Co., Ltd**
Address	:	Building C, No. 4, Xingde East Road Dongjiang Hi-tech Industrial Park, Zhongkai High-tech Zone, Huizhou City.

Test Result:	**PASS**

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2025.04.07	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: 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

BLE

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	1.34	1.34±1	2.34
Middle(2440MHz)	3.04	3.04±1	4.04
Highest(2480MHz)	2.54	2.54±1	3.54

Worst case: GFSK						
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
Middle(2440MHz)	4.04	2.54	2.64	0.00093	1.0	Pass

Note: 1) Refer to report **MTEB25040057-R** for EUT test Max Conducted average Output Power value.
Note: 2) Pd = (Pout*G)/(4* Pi * R^2)=(2.54*1.84)/(4*3.1416*20^2)=0.00093
Note: 3)EUT's Bluetooth module is more than 20cm away from the human body.

WIFI 2.4G :

802.11b			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2412MHz)	12.05	12.05±1	13.05
Middle(2437MHz)	10.52	10.52±1	11.52
Highest(2462MHz)	11.19	11.19±1	12.19

802.11g			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2412MHz)	12.17	12.17±1	13.17
Middle(2437MHz)	11.26	11.26±1	12.26
Highest(2462MHz)	11.91	11.91±1	12.91

802.11n(H20)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2412MHz)	11.75	11.75±1	12.75
Middle(2437MHz)	11.80	11.80±1	12.8
Highest(2462MHz)	11.80	11.80±1	12.8

802.11n(H40)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2422MHz)	11.54	11.54±1	12.54
Middle(2437MHz)	11.62	11.62±1	12.62
Highest(2452MHz)	11.60	11.60±1	12.6

WIFI 2.4G

Worst case: 802.11g						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Lowest(2412MHz)	13.17	20.75	2.64	0.0076	1.0	Pass

Note: 1) Refer to report **MTEB25040057-R1** for EUT test Max Conducted average Output Power value.
Note: 2) Pd = (Pout*G)/(4* Pi * R^2)=(20.75*1.84)/(4*3.1416*20^2)=0.0076
Note: 3)EUT's Wifi module is more than 20cm away from the human body.