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RADIO TEST REPORT

Report No: STS2111204H01

Issued for

Shenzhen Maxima Electronic Technology Co., Ltd.

3rd Floor, Building B2, Hengfeng Industrial Town, Xixiang, Baoan, Shenzhen, Guangdong, China

Product Name:	Bluetooth tire pressure monitoring system		
Brand Name:	KTD KINGAUTO		
Model Name: KTD330			
Series Model:	N/A		
FCC ID:	2A38CKING330XI		
Test Standard:	FCC 47CFR §2.1091		

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Test Report Certification

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Address:	3rd Floor, Building B2, Hengfeng Industrial Town, Xixiang, Baoan, Shenzhen, Guangdong, China
Product Description	
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Date of Test	
Date of receipt of test item:	30 Nov. 2021
Date (s) of performance of tests	30 Nov. 2021 ~ 26 Jan. 2022
Date of Issue	26 Jan. 2022
Test Result	Pass

Testing Engineer

(Chris Chen)

Technical Manager :

ean She

(Sean she)



Authorized Signatory :

ali

(Vita Li)

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents	
00	26 Jan. 2022	STS2111204H01	ALL	Initial Issue	



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1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Bluetooth tire pressure monitoring system			
Brand Name	KTD KINGAUTO			
Model Name	KTD330			
Series Model	N/A			
Model Difference	N/A			
Product Description	The EUT is Bluetooth tire pressure monitoring systemOperation Frequency:2402~2480 MHzModulation Type:GFSKAntenna gain:1.99dBiAntenna Designation:Monopole			
Battery	Rated Voltage: 3V Capacity: 320mAh			
Hardware Version	HouCheV03			
Software Version	HB-E2.2			

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the

environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1 1307 (b)

1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density			
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm²)			
Limits for Occupational	/ controlled Exposures					
300 - 1500	- /	-	F/300			
1500 – 100000			5.0			
Limits for General popu	Ilation / Uncontrolled Exp	oosure				
300 - 1500			F/1500			
1500 – 100000			1.0			
F= Frequency in MHz						
Friss Formula						
Friss Transmission Form	nula: Pd = (Pout * G) / (4	*pi*r²)				
Where						
Pd = power density in mW/cm ²						
Pout = output power to a	antenna in mW					
G = gain of antenna in li	near scale					
Pi = 3.1416						

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

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.

2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.

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2.5 TEST RESULT

Turn up

Mode	Detector	Turn up Power		
GFSK	AV	-5±1dBm		

ANT Gain (G)

2402-2483.5MHz: 1.99dBi (gain of antenna in linear scale=1.58)

Protocol	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain(gain of antenna in linear scale)	Power Density (mW/cm²)	Limit (mW/c m²)	Ratio	Result
GFSK	-4	0.40	1.58	0.0001	1	0.0001	Pass

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

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