TEST REPORT

Report Number. ..... :	90598-25-72-25-PP003	
Date of issue ..... :	2025.07.21	
Prepared by (+signature)..... :	Pale	
Reviewer (+signature)..... :	Duke	
Approved by (+signature) ..... :	Jason	
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Factory's name ..... :	MOKO TECHNOLOGY LIMITED	
Address ..... :	Factory 201, 107 Pinshun Rd Guixiang community, Guanlan Street, Longhua, Shenzhen, China 518110	
Standard(s) ..... :	FCC 1.1310：§1.1307(b)	
Test item description ..... :	Smart Parking Sensor	
Trade Mark ..... :	MOKO SMART	
Model/Type reference ..... :	LW009-SM PRO	
FCC ID ..... :	2AO94-LW009-SMPRO	
Date of receipt of test item ..... :	2025.06.16	
Date (s) of performance of test:	2025.06.16-2025.07.11	
Test Report Form No. ..... :	FCC CFR Part 1_B1	
Master TRF..... :	Dated 2021-09	
Summary of Test Results ..... :	Pass	

The Summary of Test Results based on a technical opinion belongs to the standard(s).

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Table of Contents

1. EUT SPECIFICATION 4
2. TEST REQUIREMENT 5
3. MEASUREMENT RESULT 6

Modified History

Report No.	Revision Date	Summary
90598-25-72-25-PP003	2025.07.21	Original Report

1. EUT Specification

EUT	Smart Parking Sensor
Model Number	LW009-SM PRO
FCC ID	2AO94-LW009-SMPRO
Antenna gain (Max)	2.75dBi (BT); -0.79dBi (915MHz)
Operation Frequency	2402-2480MHz, 915MHz
Input Rating	DC 3.6V From Battery
Standard	47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498D01 General RF Exposure Guidance v06
Modulation	BLE, LoRa

2. Test Requirement

RF EXPOSURE EVALUATION

According to FCC 1.1310: 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 §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

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.

Test Procedure:
Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Measurement Result

Mode	Frequency (MHz)	Peak output power (dBm)	Peak output power (mW)	Target power（dBm）	Maximum tune-up Power (mW)	Antenna gain		Power Density (S) (mW /cm2)	Limited of Power Density (S) (mW /cm2)	Test Result
						(dBi)	(Linear)			
BLE-GFSK	2402	1.85	1.53	1±1	1.58	2.75	1.88	0.0059	1	Complies
	2440	2.06	1.61	2±1	2.00	2.75	1.88	0.0075	1	Complies
	2480	2.70	1.86	2±1	2.00	2.75	1.88	0.0075	1	Complies

The Maxinum power is less than the limit, complies with the exemption requirements, SAR is exempted.

For 915MHz SRD
Ant gain=-0.79dBi
Ant numeric gain= 0.83
Field strength = 89.41dBuV/m@3m
EIRP=E-104.7+20logD=89.41-104.7+20log3=-5.75dBm
Maximum Conducted Output Power:-5.00dBm

Mode	Frequency (MHz)	output power (dBm)	output power (mW)	Target power（dBm）	Maximum tune-up Power (mW)	Antenna gain		Power Density (S) (mW /cm2)	Limited of Power Density (S) (mW /cm2)	Test Result
						(dBi)	(Linear)			
LoRa	915	-5.00	0.32	-5±1	0.40	-0.79	0.83	0.0007	0.61	Compiles

BLE and LoRa can be launched simultaneously. Simultaneous evaluation of compliant RF exposur:
Sum of Maximum Ratios: 0.0075+0.007=0.0082<1

Remark: The Max Conducted Peak Output Power data refer to report Report No.: 90598-25-72-25-PP001 , 90598-25-72-25-PP002.

THE END

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