

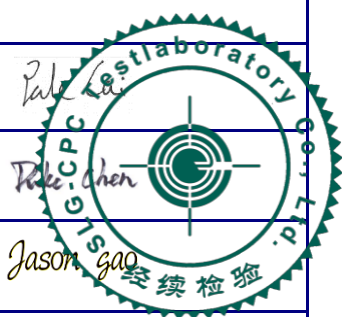
TEST REPORT		
Report Number. :	90598-25-72-25-PP003	
Date of issue :	2025.07.21	
Prepared by (+signature)..... :	Pale	
Reviewer (+signature)..... :	Duke	
Approved by (+signature) :	Jason	
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Manufacturer's name	MOKO TECHNOLOGY LIMITED	
Address	Factory 201, 107 Pinshun Rd Guixiang community, Guanlan Street, Longhua, Shenzhen, China 518110	
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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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: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

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.

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 /cm ²)	Limited of Power Density (S) (mW /cm ²)	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 Maximum 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 /cm ²)	Limited of Power Density (S) (mW /cm ²)	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 exposure:

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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