

TEST REPORT

Report Number	90362-25-72-25-PP002
Date of issue	2025.05.15
Prepared by (+signature).....	Pale
Reviewer (+signature).....	Duke
Approved by (+signature).....	Jason
Testing Laboratory name.....	SLG-CPC Testlaboratory Co., Ltd.
Address	No. 11, Wu Song Road, Dongcheng District Dongguan, Guangdong Province, 523117, People's Republic of China
Applicant's name.....	MOKO TECHNOLOGY LIMITED
Address	Factory 201, 107 Pinshun Rd Guixiang community, Guanlan Street, Longhua, Shenzhen, China 518110
Manufacturer's name	MOKO TECHNOLOGY LIMITED
Address	Factory 201, 107 Pinshun Rd Guixiang community, Guanlan Street, Longhua, Shenzhen, China 518110
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Address	Factory 201, 107 Pinshun Rd Guixiang community, Guanlan Street, Longhua, Shenzhen, China 518110
Standard(s)	FCC 47 CFR Part 15, Subpart C
EUT	Temperature Logger
Trade Mark	MOKO SMART
Model/Type reference.....	S05T
FCC ID	2AO94-S05T
Date of receipt of test item	2025.04.11
Date (s) of performance of test:	2025.04.11- 2025.04.26
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
90362-25-72-25-PP002	2025.05.15	Original Report

RF EXPOSURE EVALUATION

1. EUT Specification

EUT	Temperature Logger
Model Number	S05T
FCC ID	2AO94-S05T
Antenna gain (Max)	4.25dBi
Operation Frequency	2402-2480MHz
Input Rating	DC 3.0V
Standard	47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498D01 General RF Exposure Guidance v06
Modulation	BLE

2. Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by: $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

According to KDB447498D01 General RF Exposure Guidance v06

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.

3. Measurement Result

Operation Mode: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
GFSK -Lowest (2402MHz)	4.23	4±1	5	3.16	0.98	3.0
GFSK -Middle (2440MHz)	4.06	4±1	5	3.16	0.99	
GFSK -Highest (2480MHz)	4.40	4±1	5	3.16	1.00	

Conclusion: the calculated value ≤ 3.0 , SAR is exempted.

Remark: The Max Conducted Peak Output Power data refer to report Report No.:
90362-25-72-25-PP001.

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