

# TEST REPORT

**Applicant:** Motive Technologies, Inc.  
**Address:** 55 Hawthorne St. Suite #400, San Francisco, CA 94105  
**Equipment Type:** RFID Reader  
**Model Name:** IDREAD-01  
**Brand Name:** Motive  
**FCC ID:** 2AQM7-IDR1  
**Test Standard:** KDB 447498 D04 v01  
**Sample Arrival Date:** Dec. 19, 2023  
**Test Date:** Dec. 22, 2023  
**Date of Issue:** Dec. 26, 2023

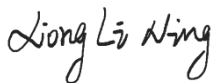
**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Xiong Lining

**Checked by:** Xu Rui

**Approved by:** Tolan Tu  
(Testing Director)



<b>Revision History</b>		
Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Dec. 26, 2023</u>	<u>Initial Issue</u>

## TABLE OF CONTENTS

1	GENERAL INFORMATION.....	3
1.1	Test Laboratory .....	3
1.2	Test Location .....	3
2	PRODUCT INFORMATION .....	4
2.1	Applicant Information .....	4
2.2	Manufacturer Information.....	4
2.3	General Description for Equipment under Test (EUT).....	4
2.4	Technical Information .....	4
3	SUMMARY OF TEST RESULT .....	5
3.1	Test Standards .....	5
4	DEVICE CATEGORY AND LEVELS LIMITS .....	6
5	ASSESSMENT RESULT .....	7
5.1	Output Power .....	7
5.2	Tune-up power .....	7
5.3	RF Exposure Evaluation Result .....	7
5.4	Conclusion.....	7

# 1 GENERAL INFORMATION

## 1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

## 1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	Motive Technologies, Inc.
Address	55 Hawthorne St. Suite #400, San Francisco, CA 94105

### 2.2 Manufacturer Information

Manufacturer	Motive Technologies, Inc.
Address	55 Hawthorne St. Suite #400, San Francisco, CA 94105

### 2.3 General Description for Equipment under Test (EUT)

EUT Name	RFID Reader
Model Name Under Test	IDREAD-01
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	R104V1.04
Software Version	DR102P_R10A01V02_MTL
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

### 2.4 Technical Information

Network and Wireless connectivity	RFID
-----------------------------------	------

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	RFID	
Frequency Range	RFID	13.56 MHz
Antenna Type	RFID	Coil Antenna
Exposure Category	General Population/Uncontrolled Exposure	
EUT Type	Mobile Device	

### 3 SUMMARY OF TEST RESULT

#### 3.1 Test Standards

No.	Identity	Document Title
1	KDB 447498 D04 v01	KDB 447498 D04 Interim General RF Exposure Guidance v01

## 4 DEVICE CATEGORY AND LEVELS LIMITS

### FCC KDB 447498 Derives:

According with FCC KDB 447498 D04, Appendix A, Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

When maximum available power each individual transmitting antenna within the same time averaging period is  $\leq 1$  mW, and the nearest parts of the antenna structures of the simultaneously operating transmitters are separated by at least 2 cm.

When the aggregate maximum available power of all transmitting antennas is  $\leq 1$  mW in the same time-averaging period.

## 5 ASSESSMENT RESULT

### 5.1 Output Power

Mode	RFID
Field Strength @3m(dBuV/m)	<b>63.22</b>
Conducted Power (dBm)	<b>-32.04</b>
Antenna Gain (dBi)	0
EIRP	<b>-32.04</b>

Note: This report listed the maximal case power value, please refer to BL-EC23B1097-402 report for more details.

### 5.2 Tune-up power

Mode	Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
RFID	[-33.00, -31.00]	[-33.00, -31.00]	[-35.15, -33.15]

### 5.3 RF Exposure Evaluation Result

Mode	Frequency (MHz)	Tune-up limit powe (dBm)	Tune-up limit power (mW)	Threshold Value(mW)	Verdict
RFID	13.56	-31.00	0.00079	1.0	Pass

### 5.4 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

## Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--