

RF EXPOSURE EVALUATION REPORT

FCC ID : 2AQM7-AG31E
Equipment : Asset Gateway Mini
Brand Name : Motive
Model Name : AG-31.5
Marketing Name : Asset Gateway Mini
Applicant : Motive Technologies, Inc.
1355 Market St., Fl. 11, San Francisco, CA 94103
Manufacturer : Motive Technologies, Inc.
1355 Market St., Fl. 11, San Francisco, CA 94103
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

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Approved by: Cona Huang / Deputy Manager



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History of this test report

Report No.	Version	Description	Issued Date
FA641508-01	Rev. 01	Initial issue of report	Jun. 09, 2026

**1. Description of Equipment Under Test (EUT)**

Product Feature & Specification	
Equipment Name	Asset Gateway Mini
Brand Name	Motive
Model Name	AG-31.5
FCC ID	2AQM7-AG31E
Wireless Technology and Frequency Range	LTE Cat M1 / NB-IoT Band 2: 1850 MHz ~ 1910 MHz LTE Cat M1 / NB-IoT Band 4: 1710 MHz ~ 1755 MHz LTE Cat M1 / NB-IoT Band 5: 824 MHz ~ 849 MHz LTE Cat M1 / NB-IoT Band 12: 699 MHz ~ 716 MHz LTE Cat M1 / NB-IoT Band 13: 777 MHz ~ 787 MHz LTE NB-IoT Band 17: 704 MHz ~ 716 MHz LTE Cat M1 / NB-IoT Band 25: 1850 MHz ~ 1915 MHz LTE Cat M1 / NB-IoT Band 26: 814 MHz ~ 849 MHz LTE Cat M1 / NB-IoT Band 66: 1710 MHz ~ 1780 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz
Mode	LTE Cat M1: QPSK, 16QAM LTE NB-IoT: QPSK, BPSK Bluetooth LE
EUT Stage	Identical Prototype

Reviewed by: Jason Wang**Report Producer: Wan Liu**

2. Maximum RF average output power among production units

Mode		Maximum Average Power (dBm)
LTE Cat M1 / NB IoT	Band 2	24
	Band 4	24
	Band 5	24
	Band 12	24
	Band 13	24
	Band 17	24
	Band 25	24
	Band 26	24
	Band 66	24
Bluetooth LE		8

3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

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

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

4. Radio Frequency Radiation Exposure Evaluation

4.1. Standalone Power Density Calculation

Band	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum PG (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
LTE Cat M1 / NB IoT Band 2	2.25	24.00	26.3	421.70	0.084	1.000	0.084
LTE Cat M1 / NB IoT Band 4	1.19	24.00	25.2	330.37	0.066	1.000	0.066
LTE Cat M1 / NB IoT Band 5	0.40	24.00	24.4	275.42	0.055	0.549	0.100
LTE Cat M1 / NB IoT Band 12	1.66	24.00	25.7	368.13	0.073	0.466	0.157
LTE Cat M1 / NB IoT Band 13	1.94	24.00	25.9	392.64	0.078	0.518	0.151
LTE NB IoT Band 17	1.66	24.00	25.7	368.13	0.073	0.469	0.156
LTE Cat M1 / NB IoT Band 25	2.25	24.00	26.3	421.70	0.084	1.000	0.084
LTE Cat M1 / NB IoT Band 26	0.60	24.00	24.6	288.40	0.057	0.543	0.106
LTE Cat M1 / NB IoT Band 66	1.48	24.00	25.5	353.18	0.070	1.000	0.070
Bluetooth	3.01	8.0	11.0	12.62	0.003	1.000	0.003

4.2. Collocated Power Density Calculation

LTE Cat M1 / NB IoT Power Density / Limit	Bluetooth Power Density / Limit	Σ (Power Density / Limit) of LTE Cat M1 / NB IoT + Bluetooth
0.157	0.003	0.160

Note:

1. Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for LTE Cat M1 / NB IoT + Bluetooth.
2. Considering the all transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 2 collocated transmitters is compliant

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.