

RF Exposure Report

Project Number: 5183320**Proposal: SUW-202405006379****Report Number: 5183320EMC07****Revision Level: 5****Client: Trackonomy Systems, Inc.****Equipment Under Test: Multifunctional IoT Platform Sensor****Model: CGB-2002****FCC ID: 2AXA8-CGB-2002****Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498****FCC KDB 447498 D01 General RF Exposure Guidance v06****Report issued on: 10 June 2024****Report revised on: 23 July 2024****Test Result: Compliant**

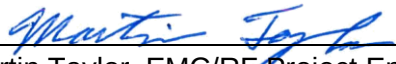
FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

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1 General Information

1.1 Client Information

Company Name: Trackonomy Systems, Inc.
Address: 214 Devcon Dr,
City, State, Zip, Country: San Jose, California, 95112, USA

1.1 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01
FCC Designation Number: US1126

1.2 General Information of EUT

Manufacturer: Trackonomy Systems, Inc.
Type of Product: Multifunctional IoT Platform Sensor
Lot Number: CGB-2002
Serial Number: Sample 1 (Conducted Sample)

Type / Frequency Range: BLE / 2402 – 2480 MHz
Modulation / Data Rate(s): GFSK / 2M PHY
Antenna: Serica: SR4W035 SMD Antenna; +3.5 dBi*

Type / Frequency Range: Lora / 2402 – 2480 MHz
Modulation / Data Rate(s): CSS / 400, 800, 1600 kHz
Antenna: Mixtus: A10194H SMD Antenna; +1.8 dBi*

Rated Voltage: 3VDC
Test Voltage: 3VDC

Sample Received Date: 05/15/2024
Dates of testing: 07/18/2024

**Data was not measured; therefore, the lab is not responsible for accuracy. Data was obtained via customer, specification sheet, previous regulatory filing, or other means.*

1.3 Operating Modes and Conditions

During emissions testing, the EUT was powered and the EUT set to a test mode to exercise the transmitter during testing.

2 RF Exposure

2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 Test Method

Using the maximum power, the power density was calculated. Maximum antenna gain was assumed for this exercise.

2.3 Single transmission RF Exposure Levels (mW/cm²)

Bluetooth

Band of Operation		Conducted Power w/tolerance	Ant Gain	Average EIRP		Distance (R)	Power Density $EIRP_{Avg}/(4\pi R^2)$	FCC	% of Limit	Verdict
Type	MHz	dBm		dBm	mW	cm	mW/cm ²	mW/cm ²		
BLE	2400-2483.5	6.61	3.50	10.11	10	20	0.0020	1.00	0%	Pass

Lora

Band of Operation		Conducted Power w/tolerance	Ant Gain	Average EIRP		Distance (R)	Power Density $EIRP_{Avg}/(4\pi R^2)$	FCC	% of Limit	Verdict
Type	MHz	dBm		dBm	mW	cm	mW/cm ²	mW/cm ²		
Lora	2400-2483.5	1.38	1.8	3.18	2.08	20	0.0004	1.00	0%	Pass

3 Revision History

Revision Level	Description of changes	Revision Date
Draft	Draft Release	23 May 2024
0	Initial Release	10 June 2024
1	Updated section 1.2 & 2.3	12 July 2024
2	Updated section 1	16 July 2024
3	Section 1 updated antenna type from chip antenna to SMD.	18 July 2024
4	Updated Section 1	22 July 2024
5	Updated section 1	23 July 2024