

RF Exposure Report

Report Number: 209809-5**Revision Level:** 3**Client:** Trackonomy Systems, Inc.

214 Devcon Dr., San Jose, CA 95112 USA

Manufacturer: Trackonomy Systems, Inc.**Equipment Under Test:** Multifunctional IoT Platform Sensor Device**Model:** FBS-3005 and FBS-3006**FCC ID:** 2AXA8-FBS-3005**IC ID:** 27299-FBS3005**Applicable Standards:** 47 CFR § 2.1091

RSS-102, Issue 6 (December 2023)

FCC KDB 447498 D01 General RF Exposure Guidance v06

Report issued on: 10/30/2025**Result:** Compliant

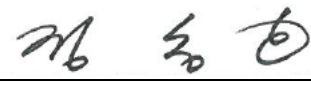
FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 1935.01

Report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

Prepared by:


Richard Dollente, Wireless Engineer

Reviewed by:


Fred Jeong, Wireless Laboratory Manager

Remarks: This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. And for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/terms-e-document.aspx>.

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for a maximum of 30 days only.

TABLE OF CONTENTS

1	GENERAL INFORMATION	3
1.1	CLIENT INFORMATION	3
1.2	TEST LABORATORY	3
1.3	GENERAL INFORMATION OF EUT	3
1.4	OPERATING MODES AND CONDITIONS	3
2	RF EXPOSURE	4
2.1	TEST RESULTS.....	4
2.2	TEST METHOD	4
2.3	LIMITS.....	5
2.4	SINGLE TRANSMISSION RF EXPOSURE LEVELS	6
2.5	SIMULTANEOUS CONDITIONS	6
3	REVISION HISTORY	7

1 General Information

1.1 Client Information

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

1.2 Test Laboratory

Name: SGS North America, Inc.
Address: 12310 World Trade Drive, Suite 106/107
City, State, Zip, Country: San Diego, CA 92128, USA
Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 1935.01
Designation ID: US1346
CAB ID: US0236

1.3 General Information of EUT

Type of Product: Multifunctional IoT Platform Sensor Device
Model: FBS-3005 and FBS-3006
Hardware Version: V2
Firmware Version: V2

Serial Number: FBS-3005 - MAC ID: E333F658D910
FBS-3005 - MAC ID: F1F170D5FDC9
FBS-3006 - MAC ID: D4CC944AD3E1

Frequency Ranges: 2402MHz – 2480MHz

Antenna Model: FBS-3005: ANT-2.4-FPC-LH
FBS-3006: LCANFP1073-SM

Antenna Type: FBS-3005: Flexible Embedded FPC Antenna
FBS-3006: RHCP Flat Panel Antenna

Antenna Gain*: FBS-3005: 6.1dBi
FBS-3006: 8dBi

Max Conducted Output Power: FBS-3005: 10dBm
FBS-3006: 10dBm

*Data was not measured by SGS laboratory and therefore SGS is not responsible for accuracy. Data obtained via customer, specification sheet, previous filing or other.

1.4 Operating Modes and Conditions

Maximum power levels were utilized for all calculations. Single transmission only.

2 RF Exposure

2.1 Test Results

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 2.1091 RSS-102	Compliant

2.2 Test Method

The formula below calculates power density.

$$S = \frac{PG}{4\pi R^2} \quad \text{Or} \quad S = \frac{EIRP}{4\pi R^2}$$

Where;

S = Power density (mW/cm²)

P = Maximum sourced based average power delivered to antenna port (mW)

G = Maximum power gain of the antenna in the direction of interest relative to an isotropic radiator (dBi) (numerical value)

R = Distance between by-stander and antenna (cm)

EIRP = Equivalent (or effective) isotropically radiated power

2.3 Limits

The table below shows the limits applicable for equipment subject to FCC §15.247 and §2.1091.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)
0.3 – 1.34	614	20.4	*(100)	30
1.34 - 30	824/f	26.97	*(180/f ²)	30
30 - 300	27.5	33.62	0.2	30
300 - 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

The table below shows the limits applicable for equipment subject to RSS-102 issue 6.

Limits for General Public/Uncontrolled Environment

Frequency Range (MHz)	Electric field strength (V _{RMS} /m)	Magnetic field strength (A _{RMS} /m)	Power Density (W/m ²)	Averaging Time (Minutes)
10 - 20	27.46	1.63	2	6
20 - 48	58.07/f ^{0.25}	0.1540/f ^{0.25}	8.944/f ^{0.5}	6
48 - 300	22.06	0.05852	1.291	6
300 - 6000	3.142f ^{0.3417}	0.008335f ^{0.3417}	0.02619f ^{0.6834}	6
6000 - 15000	61.4	0.163	10	6
15000 - 150000	61.4	0.163	10	616000/f ^{1.2}
150000 - 300000	0.158f ^{0.5}	4.21x10 ⁻⁴ f ^{0.5}	6.67x10 ⁻⁵ f	616000/f ^{1.2}

f = frequency in MHz

2.4 Single transmission RF Exposure Levels

2.4.1 Configuration: FBS-3005

2.4 GHz band, BLE per FCC §2.1091

Freq. (MHz)	Antenna Gain		Tune up conducted power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
	(dBi)	numerical	(dBm)	(mW)			
2402.0	6.1	4.074	6.0	3.981	20.0	0.003	1.0

2.4 GHz band, BLE per RSS-102

Freq. (MHz)	Antenna Gain		Tune up conducted power		Evaluation Distance (m)	Power Density (W/m ²)	MPE Limit (W/m ²)
	(dBi)	numerical	(dBm)	(W)			
2402.0	6.1	4.074	6.0	0.004	0.2	0.032	5.351

2.4.2 Configuration: FBS-3006

2.4 GHz band, BLE per FCC §2.1091

Freq. (MHz)	Antenna Gain		Tune up conducted power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
	(dBi)	numerical	(dBm)	(mW)			
2402.0	8.0	6.31	6.0	3.981	20.0	0.005	1.0

2.4 GHz band, BLE per RSS-102

Freq. (MHz)	Antenna Gain		Tune up conducted power		Evaluation Distance (m)	Power Density (W/m ²)	MPE Limit (W/m ²)
	(dBi)	numerical	(dBm)	(W)			
2402.0	8.0	6.31	6.0	0.004	0.2	0.050	5.351

2.5 Simultaneous Conditions

N/A

3 Revision History

Revision Level	Description of changes	Page Affected	Revision Date
1	Initial release	-	10/30/2025
2	Updated Client Information	3	01/05/2026
3	Updated Tune Up Conducted Power	6	01/13/2026