

RF Exposure Report

Report Number: 209810-6**Revision Level:** 2**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**Applicable Standards:** 47 CFR § 2.1091

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:

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1 General Information

1.1 Client Information

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:	Technology	Band	Range
CAT-M1		2	1850MHz – 1910MHz
		4	1710MHz – 1755MHz
		5	824MHz – 849MHz
		8	897.5MHz – 900.5MHz
		12	699MHz – 716MHz
		13	777MHz – 787MHz
		25	1850MHz – 1915MHz
		26A	814MHz – 824MHz
		26B	824MHz – 849MHz
		66	1710MHz – 1780MHz
		2	1850MHz – 1910MHz
		4	1710MHz – 1755MHz
		5	824MHz – 849MHz
		8	897.5MHz – 900.5MHz
NB-IoT		12	699MHz – 716MHz
		13	777MHz – 787MHz
		17	704MHz – 716MHz
		25	1850MHz – 1915MHz
		26A	814MHz – 824MHz
		26B	824MHz – 849MHz
		66	1710MHz – 1780MHz
		2	1850MHz – 1910MHz
		4	1710MHz – 1755MHz
		5	824MHz – 849MHz

Antenna Model Taoglas FXP14

Antenna Type Flexible PCB Cellular Antenna

Antenna Gain*:	Technology	Band	Range	Peak Gain (dBi)
	CAT-M1	2	1850MHz – 1910MHz	4.52
		4	1710MHz – 1755MHz	4.52
		5	824MHz – 849MHz	6.01
		8	897.5MHz – 900.5MHz	6.01
		12	699MHz – 716MHz	2.03
		13	777MHz – 787MHz	2.03
		25	1850MHz – 1915MHz	4.52
		26A	814MHz – 824MHz	6.01
		26B	824MHz – 849MHz	6.01
		66	1710MHz – 1780MHz	4.52
	NB-IoT	2	1850MHz – 1910MHz	4.52
		4	1710MHz – 1755MHz	4.52
		5	824MHz – 849MHz	6.01
		8	897.5MHz – 900.5MHz	6.01
		12	699MHz – 716MHz	2.03
		13	777MHz – 787MHz	2.03
		17	704MHz – 716MHz	2.03
		25	1850MHz – 1915MHz	4.52
		26A	814MHz – 824MHz	6.01
		26B	824MHz – 849MHz	6.01
		66	1710MHz – 1780MHz	4.52

*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	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 §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 – 100000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

2.4 Single transmission RF Exposure Levels (mW/cm²) per FCC§2.1091

2.4.1 Configuration: FBS-3005

CAT-M1

Bands	Freq (MHz)	Antenna Gain		Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	numerical	(dBm)	(mW)			
2	1850 – 1910	4.52	2.831	24.0	251.189	20.0	0.141	1.0
4	1710 – 1755	4.52	2.831	24.0	251.189	20.0	0.141	1.0
5	824 – 849	6.01	3.990	24.0	251.189	20.0	0.199	0.549
8	897.5 – 900.5	6.01	3.990	24.0	251.189	20.0	0.199	0.598
12	699 – 716	2.03	1.596	24.0	251.189	20.0	0.080	0.466
13	777 – 787	2.03	1.596	24.0	251.189	20.0	0.080	0.518
25	1850 – 1915	4.52	2.831	24.0	251.189	20.0	0.141	1.0
26A	814 – 824	6.01	3.990	24.0	251.189	20.0	0.199	0.543
26B	824 – 849	6.01	3.990	24.0	251.189	20.0	0.199	0.549
66	1710 – 1780	4.52	2.831	24.0	251.189	20.0	0.141	1.0

NB-IOT

Bands	Freq (MHz)	Antenna Gain		Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	numerical	(dBm)	(mW)			
2	1850 – 1910	4.52	2.831	24.0	251.189	20.0	0.141	1.0
4	1710 – 1755	4.52	2.831	24.0	251.189	20.0	0.141	1.0
5	824 – 849	6.01	3.990	24.0	251.189	20.0	0.199	0.549
8	897.5 – 900.5	6.01	3.990	24.0	251.189	20.0	0.199	0.598
12	699 – 716	2.03	1.596	24.0	251.189	20.0	0.080	0.466
13	777 – 787	2.03	1.596	24.0	251.189	20.0	0.080	0.518
17	704 – 716	2.03	1.596	24.0	251.189	20.0	0.080	0.469
25	1850 – 1915	4.52	2.831	24.0	251.189	20.0	0.141	1.0
26A	814 – 824	6.01	3.990	24.0	251.189	20.0	0.199	0.543
26B	824 – 849	6.01	3.990	24.0	251.189	20.0	0.199	0.549
66	1710 – 1780	4.52	2.831	24.0	251.189	20.0	0.141	1.0

2.4.2 Configuration: FBS-3006

CAT-M1

Bands	Freq (MHz)	Antenna Gain		Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	numerical	(dBm)	(mW)			
2	1850 – 1910	4.52	2.831	24.0	251.189	20.0	0.141	1.0
4	1710 – 1755	4.52	2.831	24.0	251.189	20.0	0.141	1.0
5	824 – 849	6.01	3.990	24.0	251.189	20.0	0.199	0.549
8	897.5 – 900.5	6.01	3.990	24.0	251.189	20.0	0.199	0.598
12	699 – 716	2.03	1.596	24.0	251.189	20.0	0.080	0.466
13	777 – 787	2.03	1.596	24.0	251.189	20.0	0.080	0.518
25	1850 – 1915	4.52	2.831	24.0	251.189	20.0	0.141	1.0
26A	814 – 824	6.01	3.990	24.0	251.189	20.0	0.199	0.543
26B	824 – 849	6.01	3.990	24.0	251.189	20.0	0.199	0.549
66	1710 – 1780	4.52	2.831	24.0	251.189	20.0	0.141	1.0

NB-IOT

Bands	Freq (MHz)	Antenna Gain		Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	numerical	(dBm)	(mW)			
2	1850 – 1910	4.52	2.831	24.0	251.189	20.0	0.141	1.0
4	1710 – 1755	4.52	2.831	24.0	251.189	20.0	0.141	1.0
5	824 – 849	6.01	3.990	24.0	251.189	20.0	0.199	0.549
8	897.5 – 900.5	6.01	3.990	24.0	251.189	20.0	0.199	0.598
12	699 – 716	2.03	1.596	24.0	251.189	20.0	0.080	0.466
13	777 – 787	2.03	1.596	24.0	251.189	20.0	0.080	0.518
17	704 – 716	2.03	1.596	24.0	251.189	20.0	0.080	0.469
25	1850 – 1915	4.52	2.831	24.0	251.189	20.0	0.141	1.0
26A	814 – 824	6.01	3.990	24.0	251.189	20.0	0.199	0.543
26B	824 – 849	6.01	3.990	24.0	251.189	20.0	0.199	0.549
66	1710 – 1780	4.52	2.831	24.0	251.189	20.0	0.141	1.0

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 Bands	All	12/29/2025
3	Updated General Information of EUT	3	01/05/2026