

EMF TEST REPORT

(CLASS II Permissive Change)

Test Report No. : OT-265-RWD-031

Reception No. : 2602000717

Applicant : bitsensing Inc.

Address : 4,5F, 4, Godeung-ro, Sujeong-gu, Seongnam-si, Gyeonggi-do, South Korea

Manufacturer : bitsensing Inc.

Address : 4,5F, 4, Godeung-ro, Sujeong-gu, Seongnam-si, Gyeonggi-do, South Korea

Type of Equipment : Imaging Radar Sensor

FCC ID. : 2AVBK-AFI920

Model Name : AFI920

Multiple Model Name : N/A

Serial number : N/A

Total page of Report : 7 pages (including this page)

Date of Incoming : April 23, 2026

Date of issue : May 21, 2026

SUMMARY

The equipment complies with the regulation; **CFR §2.1093**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

This test report is not associated with the accreditation granted by the Korean Laboratory Accreditation Scheme (KOLAS).



Tested by
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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-263-RWD-021	March 18, 2026	Initial Release	All
1	OT-265-RWD-031	May 21, 2026	RF Mode Added / PCIE Interface Part Layout Removed (Class II permissive change)	All

1. VERIFICATION OF COMPLIANCE

Applicant : bitsensing Inc.

Address : 4,5F, 4, Godeung-ro, Sujeong-gu, Seongnam-si, Gyeonggi-do, South Korea

Contact Person : Suhan Kim / Principal Research Engineer

Telephone No. : +82-10-7400-2819

FCC ID : 2AVBK-AFI920

Model Name : AFI920

Brand Name : -

Serial Number : N/A

Date : May 21, 2026

E.U.T. DESCRIPTION	Imaging Radar Sensor
THIS REPORT CONCERNS	Class II permissive change
MEASUREMENT PROCEDURES	KDB 447498 D01 General RF Exposure Guidance v06
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
Modifications on the Equipment to Achieve Compliance	None

- . The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. REQUIREMENT

2.1 LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with FCC 47 CFR Part 2 Subpart J, section 2.1091 and FCC 47 CFR Part 1.1310(e)(1) this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF permissible Exposure limit shall comply with, Limits for General Population/Uncontrolled Exposure.

Frequency range	Electric field strength	Magnetic field strength	Power density	Averaging time
(MHz)	(V/m)	(A/m)	(mW/cm ²)	(minutes)
(A) Limits for Occupational/Controlled Exposure				
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	<6
300-1,500			f/300	<6
1,500-100,000			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
300-1,500			f/1500	<30
1,500-100,000			<u>1</u>	<30

f = frequency in MHz

* = Plane-wave equivalent power density

3. MPE Calculations

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user. The MPE calculation for this exposure is shown below

$$\text{EIRP} = P + G$$

Where,

P = Power input to the antenna (mW) G = Numeric power gain of the antenna

G = Power Gain of the Antenna (dBi)

Power density at the specific separation:

$$S = PG / (4R^2\pi)$$

Where,

S = Maximum power density (mW/cm²)

P = Power input to the antenna (mW) G = Numeric power gain of the antenna

R = Distance to the center of the radiation of the antenna

(20cm = limit for MPE)

Estimated safe separation:

$$R = \sqrt{PG / 4\pi}$$

Where,

P = Power input to the antenna (mW)

G = Numeric power gain of the antenna

R = Distance to the center of the radiation of the antenna

(20cm = limit for MPE)

4. CALCULATED RESULTS

4.1 LIMIT AND CALCULATION

Operating Mode	Measured Power	Max Tune up Power	Gain	EIRP	EIRP	Power Density	Limit
	(dBm)	(dBm)	(dBi)	(dBm)	(mW)	(mW/cm ²)	
76 GHz ~ 81 GHz	10.40	12.40	-	12.40	17.38	0.003 5	1

Note:

1. All modes were tested, but only the worst data was recorded in the report.
2. The assessed distance is 20 cm
3. Tolerance = Target power $\pm$ 2.0