

RF Exposure Evaluation Report

Product : Millimeter-wave radar
Trade mark : N/A
Model/Type reference : BSD7,BSD9,BSD10,BSD8,BSD11,BSD12,
BSD13,BSD770,BSD774,BSD777
Serial Number : N/A
Report Number : EED32S81850102
FCC ID : 2AEK8-BSD9
Date of Issue : October 10, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091(mobile devices)
47 CFR Part 2.1093(portable devices)
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

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October 10, 2026

Check No.: 1034030826



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2 General Information

2.1 Client Information

Applicant:	Gofuture Technology Co.,Limited
Address of Applicant:	3F,Building C,Xinzheng Industrial Park,District71,Xingdong Community, Baoan District,Shenzhen,China
Manufacturer:	Gofuture Technology Co.,Limited
Address of Manufacturer:	3F,Building C,Xinzheng Industrial Park,District71,Xingdong Community, Baoan District,Shenzhen,China
Factory:	Gofuture Technology Co.,Limited
Address of Factory:	3F,Building C,Xinzheng Industrial Park,District71,Xingdong Community, Baoan District,Shenzhen,China

2.2 Product Specification subjective to this standard

Type of Modulation:	FMCW (Frequency Modulated Continuous Wave)
Operating Frequency	61.62GHz to 61.86GHz
Test Power Grade:	Default (manufacturer declare)
Test Software of EUT:	RF Test (manufacturer declare)
Antenna Type:	PCB Antenna
Antenna Gain:	10dBi
Power Supply:	DC 8.0V to DC 30.0V
Test Voltage:	DC 24.0V
Sample Received Date:	Aug. 03, 2026
Sample tested Date:	Aug. 04, 2026 to Aug. 18, 2026
Remark: Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified. Model No.:BSD7,BSD9,BSD10,BSD8,BSD11,BSD12,BSD13,BSD770,BSD774,BSD777 Only the worst model BSD9 was tested and the results were recorded in the report. This can also cover other lower models. Since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference between the aforementioned product series and models lies in their power output.	

2.3 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd
Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

Designation Number: CN1164

Test Firm Registration Number: 260439

ISED test site number: 7408A, CAB identifier number : CN0037

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

According to KDB 447498 D04 Interim General RF Exposure Guidance v01, for all devices, MPE limits in § 1.1310(e)(1) - Table 1. The SAR-based exemption formula of § 1.1310(e)(1), Table 1 to § 1.1310(e)(1) sets forth limits for Maximum Permissible Exposure (MPE) to radio frequency electromagnetic fields.

Table 1 to § 1.1310(e)(1)—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) 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	1.0	<6
300–1,500			f/300	<6
1,500–100,000			5	<6
(ii) 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			1.0	<30

f = frequency in MHz.

* = Plane-wave equivalent power density.

Friis Formula,

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$;

Where,

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.141592653589793;

R = distance between observation point and center of the radiator in cm .

General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure. For example, RF sources intended for consumer use shall be subject to the limits for general population/uncontrolled exposure in this section.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at only channel individually.

3.1.3 EUT RF Exposure Evaluation

For Stand alone:

Working environment	Frequency (MHz)	Estimation distance (cm)	EIRP (dBm)	EIRP (mW)	Power density (mW/cm ²)	Limit (mW/cm ²)	MPE ratio	Result
Uncontrolled	61738.938	20	8.86	7.6913	0.001530136	1.0	0.0015	Pass

Note:

- ① $EIRP(mW) = 10^{(EIRP(dBm)/10)}$;
- ② The estimation distance is 20cm;
- ③ Tune-up EIRP was declared by manufacturer;
- ④ The test data of Corrected EIRP please refer to the report of EED32S81850101 and only the worst case data was recorded in the report.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***