

RF Exposure Report

Report No.: MFBICK-WTW-P25080284

FCC ID: CWTUKCZB1A

Test Model: UKCZB1A

Received Date: Aug. 13, 2025

Test Date: Sep. 10, 2025 ~ Oct. 02, 2025

Issued Date: Dec. 03, 2025

Applicant: ALPS ALPINE CO., LTD.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
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FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
MFBICK-WTW-P25080284	Original Release	Dec. 03, 2025

1 Certificate of Conformity

Product: 60 GHz Radar board
Brand: ALPSALPINE
Test Model: UKCZB1A
Sample Status: Engineering Sample
Applicant: ALPS ALPINE CO., LTD.
Test Date: Sep. 10, 2025 ~ Oct. 02, 2025
FCC Rule Part: FCC Part 2 (Section 2.1091)
Standards: KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Vera Huang , Date: Dec. 03, 2025
Vera Huang / Specialist

Approved by : Jeremy Lin , Date: Dec. 03, 2025
Jeremy Lin / Project Engineer

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
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
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation 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 = 3.1416

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

2.3 Classification

The antenna of this product, under normal use condition, is at least 20 cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Calculation Result

Operation Mode	Frequency Band (GHz)	Maximum Tune-up EIRP (dBm)	Maximum Tune-up EIRP (mW)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
mmWave (60GHz)	57 ~ 64	17.87	61.235	20	0.0122	1	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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