

Safety Human Exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields

RESULT:

Pass

Report No. : CN24THIN 002
Test Specification
Test item : Incase Number Pad
Identification / Type No. : OB1558
FCC ID : 2BCOY-OB1558
IC : 32736-OB1558
HVIN : OB1558
Test standard : CFR47 FCC Part 2: Section 2.1093
FCC KDB Publication 447498 v06
RSS-102 Issue 6 December 15, 2023

Measurement Record:

The minimum distance for the EUT is less than 5mm.

For FCC:

Since maximum peak output power of the transmitter is 88.42dBuV/m (-6.81 dBm) $\approx 0.21 \text{ mW} < \frac{3 \cdot d}{\sqrt{f}} = 9.53 \text{ mW}$.

Note: $EIRP = E_{Meas} + 20\log(d_{Meas}) - 104.7$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBuV/m

d_{Meas} is the measurement distance, in m

Hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01 General RF Exposure Guidance v06.

For IC:

The higher of the maximum e.i.r.p. or conducted power of the transmitter is -6.81 dBm $\approx 0.21 \text{ mW}$, which is below the SAR exclusion threshold level $3 \text{ mW} \approx 4.77 \text{ dBm}$.

Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 6.3 of RSS-102 Issue 6.