

FCC RF Exposure

Product Name: RC aircraft.

FCC ID: 2ASUS-A500

Model(s): A500, K100, K110S-B, K110S, K120, K150, K160, K170, K123, K124, K125, K126, K127, K130, K128, K129, K200, K220, K250, K260, K280, K300, K400, K450, K500, K550, A100, A110, A120, A130, A150, A160, A170, A180, A190, A200, A210, A220, A250, A260, A280, A290, A300, A310, A320, A330, A430S, A450, A550, A650, A850, A900, A600, A800, A880, F949S, F959S, A1200, A1500, X200, X220, X230, X500, X600, X550, X660, X420, X520, X450, V911S, V912-A, V913-A, S929-A, V950, V388, V915-A, X1S-B, X1S-4K, Q868, Q878

1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 The 1 - g and 10 - g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max power of channel, including tune - up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1 - g SAR and ≤ 7.5 for 10 - g extremity SAR,

Where:

Result = $P/D \cdot \sqrt{F}$

F = the RF channel transmit frequency in GHz

P = Maximum turn - up power in mw

D = Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

EIRP(dBm) = 91.87 (dBuV/m) - 95.2 = -3.33(dBm)

| Frequency (MHz) | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up power dBm/mW | Min test separation distance mm | Result | Limit (mW/cm ²) | SAR Test Exclusion |
|-----------------|--------------------|---------------------|--------------------------|---------------------------------|--------|-----------------------------|--------------------|
| 2440 | -3.33 | -3 ± 1 | -2/0.63 | 5 | 0.197 | 3.0 | Pass |

Note:

PK Output power = conducted power.

Conducted power see the test report HK2309264475-E, antenna gain = 2.97dBi

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.197 which is ≤ 3 , RF Exposure testing is not required.

Note: Exclusion Thresholds Results = $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Distance = 5mm