

SAR test exclusion evaluation compliance requirement**Model no.:** Felix-G1**1. KDB 447498 D01 v06 requirement**

Standalone SAR test exclusion considerations:

Calculation formula:

$$E \text{ (V/m)} = (30 \cdot P \cdot G) 0.5/d, E = \text{Electric Field (V/m)}$$

 $P = \text{Peak RF output Power (W)}, G = \text{EUT Antenna numeric gain (numeric)}$ $d = \text{Separation distance between EUT and antenna (m)}$ Remark: $E(V/m) = 10^{X(\text{dBUV/m})/20} \times 10^{-6}$, $P = (E \cdot d)^2 / 30G$ Or $ERP = PG = (E \cdot d)^2 / 30$, $EIRP = ERP + 2.15 \text{ dB}$ in the formula above, $d=3\text{m}$, field strength=77.0dBuV/m (max described by client),So $P=0.015 \text{ mW}$ The worst case test separation distance is **5mm**.The product belongs to **standalone portable device** base the FCC rule part 2.1091&2.1093. The transmission frequencies of the device are between 100 MHz and 6 GHz.

In KDB 447498 D01 v06: 4.3.1 Standalone SAR test exclusion considerations:

The SAR Test Exclusion Threshold is calculated from:

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

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation 17
- The result is rounded to one decimal place for comparison

The Max Output Power and SAR Test Exclusion Threshold (mW) are listed below:

Transmit Frequency (MHz)	Output power (mW)	SAR Test Exclusion Threshold (mW)
2402-2480	0.015	9.5

According to SAR Exclusion Threshold in KDB 447498 (D01) General RF Exposure Guidance v06, the SAR report is not required.

Test Location:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

All tests were performed at:

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China