

FCC RF Exposure

EUT Description: Translator Device

Model No.: S30 Pro

FCC ID: 2BE3N-S30PRO

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

Frequency (MHz)	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power (dBm/mW)	Min test separation distance (mm)	Result	Limit	SAR Test Exclusion
2437	7.34	6.5 ± 1	7.5/5.623	5	1.756	3.0	Pass
2441	-5.93	-6 ± 1	-5/0.316	5	0.099	3.0	Pass
<p>Note:</p> <p>PK Output power= conducted power.</p> <p>Conducted power see the test report HK2503030902-1E/2E, antenna gain=2.12dBi;</p> <p>2.4G WIFI MPE (max)=1.756 (mW/cm²)</p> <p>BT MPE (max)= 0.099 (mW/cm²)</p> <p>simultaneously MPE=1.756/3+0.099/3=0.6183<1.0</p>							

Simultaneous transmitting result $0.6183 \leq 1.0$, compliance with FCC's RF Exposure, 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