

# FCC RF Exposure

EUT Description: SMART TV BOX

Model No.: X1 II

FCC ID: 2AGN7-X1

## 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  $\leq 50$  mm are determined by:

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

Where:

Result =  $P \sqrt{f/D}$

F = the RF channel transmit frequency in GHz

P = Maximum turn-up power in m

D = Min. test separation distance in mm

## 2. Test Result of RF Exposure Evaluation

| Modulation    | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up Power dBm/mW | Min. test separation distance, mm | Result | Limit (mW/cm <sup>2</sup> ) | SAR Test Exclusion |
|---------------|--------------------|---------------------|--------------------------|-----------------------------------|--------|-----------------------------|--------------------|
| 802.11b       | 10.01              | 9.3 ± 1             | 10.3/10.71               | 20                                | 0.83   | 3.0                         | Yes                |
| 802.11g       | 5.91               | 6.0 ± 1             | 7/5.01                   | 20                                | 0.39   | 3.0                         | Yes                |
| 802.11n(HT20) | 4.91               | 5.0 ± 1             | 6/3.98                   | 20                                | 0.31   | 3.0                         | Yes                |
| 802.11n(HT40) | 3.35               | 4.0 ± 1             | 5/3.16                   | 20                                | 0.24   | 3.0                         | Yes                |