

# RF Exposure Evaluation Report

## 1 RF EXPOSURE

<b>Product Name</b>	Remote control
<b>Model No.</b>	RF402A
<b>Test Mode</b>	TX
<b>FCC ID</b>	S4X-RF402A

### 1.1 LIMITS

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:

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

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

### 1.2 EUT RF EXPOSURE EVALUATION

Operational Mode: BLE						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power(dBm)	Maximum tune-up Power(mW)	Calculated value	Exclusion threshold
2402MHz	-0.36	$\pm 1$	0.64	1.16	0.36	3
2442MHz	0.31	$\pm 1$	1.31	1.35	0.42	3
2480MHz	0.49	$\pm 1$	1.49	1.41	0.44	3
Conclusion: the calculated value $\leq 3.0$ , SAR is exempted.						