

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Lithium ion battery
Model Name	C45-300B, C42-120B, C43-180B, C44-240B
FCC ID	2ARCT-C45-300B

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 5 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 $f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

3. CALCULATION

According to the report WH-FCC-R18061103,

The result for RF exposure evaluation

BT: SAR= $(1.94\text{mW} / 5\text{mm}) \cdot [\sqrt{2.48(\text{GHz})}] = 0.611 < 3.0$ for 1-g SAR

4. CONCLUSION

The SAR evaluation is not required.