

FCC RF EXPOSURE REPORT

FCC ID: Q9DARBT0200

Project No. : 1601105
Equipment : Aruba LS-BT20 Location Beacon
Model : ARBT0200
Applicant : Aruba Networks, Inc.
Address : 1344 Crossman Ave. Sunnyvale, CA94089 USA

According: : FCC Guidelines for Human Exposure IEEE C95.1

BTL Inc.

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Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	Sercomm Corporation	N/A	Printed Ant	N/A	1.44

GENERAL CONCLUSION:

Output Power = 2dBm ± 1dBm = 3dBm = 2mW

Maximum measured transmitter power:

OutputPower (dBm)		Limit
3	0.207	1

According to FCC KDB447498 V06, Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

According to FCC KDB 447498 D01 v06 Section: 4.3.1 (a.)

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

This is equivalent to the formula written as: $[(\text{max. power of channel, including tune-up tolerance, mW}) / (60 \cdot \sqrt{f(\text{GHz})} \text{ mW})] \cdot [20 \text{ mm} / (\text{min. test separation distance, mm})] \leq 1.0$ for 1-g SAR; also see Appendix A for approximate exclusion threshold numerical values at selected frequencies and distances.

Calculation for 5mm separation distance:

$f = 2.402\text{GHz}$

Output Power = $2 / (60 \cdot \sqrt{2.402}) * (20/5) = 0.207 \leq 1$

Conclusion: No SAR evaluation required since transmit power is below FCC threshold