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## RF EXPOSURE CALCULATIONS

## **Requirement:**

According to USA CFR 15 §1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. For Canada, RSS-102 sets out the requirements and measurement techniques used to evaluate radio frequency (RF) exposure compliance of radiocommunication apparatus designed to be used within the vicinity of the human body.

## **Maximum Permissible Exposure Calculations:**

USA REF: 1.1310, 2.1091/1093, 447498 D01 General RF Exposure Guidance v06 IC REF: RSS-102 Issue 5, Safety Code 6

Test Engineer: EUT: EUT Mode: Meas. Distance:

I Brunett AKTV8 iAir3B Worst Case

Mode	Freq.	Worst Case EIRP(Avg)**	E20cm(Avg)	S20cm(Avg)****		SC6 Limit (S20cm)	MPE Ratio	S Limit	MPE Ratio
	MHz	dBm	dBuV/m	mW/cm2		mW/cm2		mW/cm2	
Mode	Freq.	Worst Case EIRP(Avg)**	E20cm(Avg)	S20cm(Avg)****		SC6 Limit (S20cm)	MPE Ratio	S Limit	MPE Ratio
	MHz	dBm	dBuV/m	mW/cm2		mW/cm2		mW/cm2	
BLE (worst case)	2402	4.3	123.0	0.00054		5.4	.0001	1.00000	.0005
						MPE Total (<1):	.0001	MPE Total (<1):	.0005
						Complies?	Yes	Complies?	Yes

<sup>\*</sup>As Measured / Computed from highest fundamental emission, see fundamental emission section of this report.

Min. Sep. Distance: 20 cm (Mobile)

## **Summary:**

The EUT with all transmitters is compliant with both the FCC power density limit and the ISED Exposure Evaluation limits.

<sup>\*\*</sup>maximum of either EIRP or Pout as measured.

\*\*\* For FCC MPE, use of 300 kHz limit for signals below 300 kHz as previously requested by FCC.

\*\*\*\* EIRP (mW) = S (mW/cm^2) x 4 x PI x 20cm^2