

Company: Radwin

Assessment of: RADWIN 2000 JET, RADWIN 5000 JET

To: FCC CFR 47 Part 15 RF Exposure requirements  
Industry Canada RSS-102

Report No.: RDWN32 - MPE

## MPE REPORT



# MPE TEST REPORT



Assessment of: RADWIN 2000 JET, RADWIN 5000 JET  
to

To: FCC CFR 47 Part 15 RF Exposure requirements  
Industry Canada RSS-102

Test Report Serial No.: RDWN32 - MPE

This report supersedes: NONE

Applicant: Radwin  
27 Habarzel Street  
Tel Aviv, 69710  
Israel

Product Function: MIMO PtP/PtMP Smart Antenna  
Outdoor Radio Device

Issue Date: 5th August 2015

## **This Test Report is Issued Under the Authority of:**

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**Title:** Radwin RADWIN 2000 JET, RADWIN 5000 JET  
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## 1. MAXIMUM PERMISSABLE EXPOSURE

### Calculations for Maximum Permissible Exposure Levels

Power Density =  $P_d$  ( $\text{mW}/\text{cm}^2$ ) =  $\text{EIRP}/(4*\pi*d^2)$

$\text{EIRP} = P * G$

$P$  = Peak output power (mW)

$G$  = Antenna numeric gain (numeric)

$d$  = Separation distance (cm)

Numeric Gain =  $10^{(G \text{ (dBi)}/10)}$

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is  $1.0 \text{ mW}/\text{cm}^2$

The calculations in the table below use the highest conducted power values together with the lowest antenna gain specified for the EUT. These calculations represent worst case in terms of the exposure levels.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ $1\text{mW}/\text{cm}^2$	Calculated Power Density @ 20cm	Minimum Separation Distance (cm)
5250.0 - 5350.0	20.50	112.20	10.08	10.19	9.54	0.23	20.00
5470.0 - 5725.0	20.50	112.20	9.49	8.89	8.91	0.20	20.00

**Note:** for mobile or fixed location transmitters the minimum separation distance is 20cm, even if calculations indicate the MPE distance to be less.



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**Specification**  
**Maximum Permissible Exposure Limits**

**FCC §1.1310** Limit =  $1\text{mW} / \text{cm}^2$  from 1.310 Table 1

**RSS-Gen §3.2** In addition to RSS-Gen, the requirements in Radio Standards Specification RSS-102 shall be met.

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