



MAX LIGHT

MEASUREMENT REPORT

Maximum Permissible Exposure

EUT : mpci wireless module

Applicant : Mikrotiks SIA
Pernavas 46 LV-1009 Riga Latvia

Manufacturer : Compex Systems Pte Ltd.
135, Joo Seng Road, #08-01 PM Industrial
Building Singapore 368363

Model No : R52

FCC ID : TV7R52

Basis of Calculations:

$$E^2/3770 = S, \text{ mW/cm}^2$$

$$E, \text{ V/m} = (P_{\text{watts}} \cdot G_{\text{gain}} \cdot 30)^{0.5} / d, \text{ meters}$$

$$d = ((P_{\text{watts}} \cdot G \cdot 30) / (3770 \cdot S))^{0.5} \quad P_{\text{watts}} \cdot G_{\text{gain}} = 10^{(P_{\text{dBm}} - 30 + G_{\text{dBi}}) / 10}$$



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Test Result:

802.11a

Max RF Power (dBm)	TX Antenna Gain (dBi)	Testing Result (mW/cm²)	MPE Limit (mW/cm²)
15.61	2.0	0.0910	1

802.11b

Max RF Power (dBm)	TX Antenna Gain (dBi)	Testing Result (mW/cm²)	MPE Limit (mW/cm²)
15.77	2.0	0.0940	1

802.11g

Max RF Power (dBm)	TX Antenna Gain (dBi)	Testing Result (mW/cm²)	MPE Limit (mW/cm²)
11.16	2.0	0.0326	1

NOTE: For mobile or fixed location transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.