

MPE/RF EXPOSURE REPORT

Company: Mikrotikls SIA (MikroTik)

Evaluation of: RBD25G-5HPacQD2HPnD-US

To: FCC CFR 47 Part 1.1310

Report No.: MIKO81 RBD25G-5HPacQD2HPnD-US FCC

MPE Rev A



MPE/RF EXPOSURE REPORT



Evaluation of: Mikrotikls SIA (MikroTik) RBD25G-5HPacQD2HPnD-US (Audience)

To: FCC CFR 47 Part 1.1310

Report Serial No.: MIKO81 RBD25G-5HPacQD2HPnD-US FCC MPE Rev A

This report supersedes: NONE

Applicant: Mikrotikls SIA (MikroTik)

Brivibas gatve 214i Riga, LV-1039

Latvia

Product Function: 802.11a/b/g/n/ac WLAN router + LTE

Customer Premises Equipment

Issue Date: 21st May 2019

This Report is Issued Under the Authority of:

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MikroTik RBD25G-5HPacQD2HPnD-US

FCC CFR 47 Part 1.1310 To:

Serial #: MIKO81 Audience Kit FCC MPE Rev A

1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

Power Density = Pd (mW/cm²) = EIRP/($4*\pi*d^2$)

EIRP = P * G

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

Numeric Gain = $10 ^ (G (dBi)/10)$

The calculations in the table below use the highest conducted power values together with the 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 Power Density (mW/cm²) @ 20cm	Power Density Limit (mW/cm²)	Min Calculated safe distance for Limit (cm)
5150.0 - 5250.0	2.50	1.78	27.53	566.24	0.200	1.00	8.951
2400.0 - 2483.5	3.50	2.24	19.5	89.13	0.040	1.00	3.985
5725.0 - 5850.0	4.50	2.82	26.57	453.94	0.255	1.00	10.090

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

Specification - Maximum Permissible Exposure Limits

The Limit is defined in Table 1 of FCC §1.1310.

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