MPE/RF EXPOSURE EVALUATION REPORT

FCC Part 15 RF Exposure Requirements

Report No.: MIKO92_MPE FCC Rev A

Company: Mikrotikls SIA

Model: RBLHGG-5acD Wireless Module

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Model: RBLHGG-5acD Wireless Module

To: FCC CFR 47 Part 1.1310

Test Report Serial No.: MIKO92_MPE FCC Rev A

This report supersedes: NONE

Applicant:	Mikrotikls SIA Brivibas gatve 214i Riga, LV-1039 Latvia
Product Function:	802.11ac WLAN access point
Issue Date:	9th September 2019

This Test Report is Issued Under the Authority of:

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1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels
Power Density = Pd (mW/cm^2) = EIRP/(4*π*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 lowest antenna gain specified for the EUT. The RBLHGG-5acD Wireless Module can only transmit on a single frequency at any given time therefore the following calculations represent worst case exposure levels.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Power Density (mW/cm^2) @ 20cm	Power Density Limit (mW/cm^2)	Min Calculated safe distance for Limit (cm)	Calculated Power Density (mW/cm^2) @ Safe Distance
5250.0 - 5350.0	9.00	7.94	18.95	78.50	0.12	1.00	8.00	1.00
5470.0 - 5725.0	9.00	7.94	16.87	48.68	0.08	1.00	6.00	1.00

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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