Company: lotera

Test of: Home Base To: FCC CFR 47 Part 15 Subpart C 15.247

Report No.: IOTA01-U3c MPE Rev A

MPE TEST REPORT



MPE TEST REPORT



Test of: lotera Home Base

To: FCC CFR 47 Part 15 Subpart C 15.247

Test Report Serial No.: IOTA01-U3c Rev A

This report supersedes: None

Applicant: lotera

370 Convention Way # 220

Redwood City, California 94063

USA

Product Function: GPS Tracker

Issue Date: 8th April 2015

This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.

575 Boulder Court Pleasanton California 94566 USA

Phone: +1 (925) 462-0304 Fax: +1 (925) 462-0306 www.micomlabs.com



MiCOM Labs is an ISO 17025 Accredited Testing Laboratory



Title: Iotera Home Base

To: FCC CFR 47 Part 15 Subpart C 15.247

Serial #: IOTA01 - IOTA FCC IC

Issue Date: 8th April 2015

Page: 3 of 4

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

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 mW/cm²

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 @ 1mW/cm²	Calculated Power Density @ 20cm	Minimum Separation Distance (cm)
902.0 - 928.0	3.00	2.00	29.14	820.35	11.41	0.33	20.00
2400.0 - 2483.5	3.00	2.00	4.87	3.07	0.5	0.001	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.

902 - 928 MHz Chirp Spread Spectrum

2400 – 2483.5 Bluetooth Frequency Hopper

Specification

Maximum Permissible Exposure Limits

FCC §1.1310 Limit = 1mW / cm² 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.



575 Boulder Court
Pleasanton, California 94566, USA
Tel: +1 (925) 462 0304
Fax: +1 (925) 462 0306
www.micomlabs.com