telefication bv
The Netherlands
Chamber of Commerce
51565536
www.telefication.com

telefication

FCC RF Exposure Report

Product name : IQ2.0

Applicant : SALTO Systems, S.L.

FCC ID : UKCIQ2

Test report No. : 170600688 FCC RF exposure Ver 1.00

Laboratory information

Accreditation

Telefication is designated by the FCC as an Accredited Test Firm for compliance testing of equipment subject to Certification under Parts 15 & 18. The Designation number is: NL0001

The Industry Canada registration number for the 3 meter test chamber of Telefication is: 4173A-1.

Documentation

Telefication complies with the accreditation criteria for test laboratories as laid down in ISO/IEC 17025:2005. The accreditation covers the quality system of the laboratory as well as the specific activities as described in the authorized annex bearing the accreditation number L021 and is granted on 30 November 1990 by the Dutch Council For Accreditation (RvA: Raad voor Accreditatie).

The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 10 years at Telefication Netherland

Testing Location

Test Site	Telefication BV
Test Site location	Edisonstraat 12a 6902 PK Zevenaar The Netherlands Tel. +31316583180 Fax. +31316583189
Test Site FCC	NL0001

Revision History

Version	Date	Remarks	By
V1.00	25-10-2017	Release version	PS

Table of Contents

1 General Description

1.1 Applicant

Client name:	Salto systems, S.L.
Address	C/Arkotz 9 Pol. Lanbarre, Oiartzun
Zip code:	20180
Telephone:	+34 943344550
E-mail:	j.imedio@saltosystems.com
Contact name:	Mr. Juan Imedio

1.2 Manufacturer

Manufacturer name:	Salto systems, S.L.
Address:	C/Arkotz 9 Pol. Lanbarre, Oiartzun
Zip code:	20180
Telephone:	+34 943344550
E-mail:	j.imedio@saltosystems.com
Contact name:	Mr. Juan Imedio

1.3 Tested Equipment Under Test (EUT)

Product name:	Gateway
Brand name:	SALTO
Product type:	Data transmission equipment in the 2.4 GHz band
FCC ID:	UKCIQ2
Model(s):	IQ2.0
Software version:	Special firmware for testing
Hardware version:	--

1.4 MPE Calculation Method

Calculation method of RF Safety Distance:

$$PD = 10 * \frac{Pout * G}{4\pi r^2}$$

Where:
PD = Power Density in W/m^2
Pout = Output power in mW
G = Gain of antenna
R = Distance between observation point and centre of the radiator in cm

1.5 Antenna

Technology	WiFi	BLE	ZigBee
Antenna type	Chip	Chip	Chip
Antenna gain	0.5 dBi	1.0 dBi	0.5 dBi

1.6 Calculation results

Technology	**Frequency (MHz)**	**Max power (mW)**	**Antenna gain (numeric)**	**Distance (cm)**	**Power density (W/m^2)**	**Limit (W/m^2)**	**MPE ratio**	**MPE ratio limit**
WiFi	2412	82.2	1.12	20	0.183	10	0.0183	
BLE	2402	6.80	1.26	20	$17.0*10^{-3}$	10	$1.7*10^{-3}$	
ZigBee	2445	1.44	1.12	20	$3.21*10^{-3}$	10	$3.21*10^{-4}$	
Total MPE ratio (approx.)							0.0203	≤ 1.0