

RAPPORTO DI PROVA / TEST REPORT

Rif./Ref.No. MPETR_170181-3	Data / Date: 31/07/2017	Pagine / Pages : 7
Scopo delle prove / Test object :	Prove di tipo in accordo a / Type test according to FCC Cfr 47 part 2 - §2.1091, part 1 - §1.1310	
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Marchio commerciale / Trade mark :	captoglove	
Fabbricante / Manufacturer :	CaptoGlove LLC	
Prodotto / Product :	Wearable Bluetooth motion controller for smart devices	
Modello / <i>Model :</i>	1	
EUT FCC ID	2AK3F00001	
Data ricevimento campioni / Date of test samples receipt:	20/06/2017	
Campioni verificati / No. of tested samples	1	
Data verifiche / Testing date:	07/07/2017	
Sito di prova / Testing site :	Prima Ricerca & Sviluppo Via Campagna - 92 I - 22020 FALOPPIO CO	
Esito delle valutazioni / Assessment results :	CONFORME / COMPLIANT	
Verifiche effettuate da / Verifications carried out by :	Daniele AOSANI Tecnico Laboratorio EMC & RADIO / EMC & RADIO Laboratory Technician	Doisch Joseph
Approvato / Approved by :	Enrico BANFI Responsabile Laboratorio EMC & RADIO / EMC & RADIO Laboratory Manager	Boujetinico

I risultati delle prove riportati nel presente rapporto di prova si riferiscono solo ai campioni esaminati./The test results reported in this test report shall refer only to the samples tested

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PRIMARICERCA & SVILUPPO

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0 RELEASE CONTROL RECORD

TEST REPORT NUMBER	REASON OF CHANGE	DATE OF ISSUE
MPETR_170181-0	Original Release	28/07/2017
MPETR_170181-1	Editorial Changes	31/07/2017
MPETR_170181-2	Editorial Changes	31/07/2017
MPETR_170181-3	Editorial Changes	31/07/2017



1 TECHNICAL INFORMATION OF EQUIPMENT UNDER TEST (EUT)

1.1 Identification

Trademark:	captoglove
Manufacturer:	CaptoGlove LLC
Type of Equipment:	Wearable Bluetooth motion controller for smart devices
Model name:	1
Serial number :	Prototype
FCC ID:	2AK3F00001
Country of manufacturer:	United States of America



Technical data

Product type:	Radio Equipment	
Radio type:	Intentional radiators	
Product description / application	Motion controller with Bluetooth LE module	
Power supply requirements :	3,7V (internal battery)	
Operating Frequency range	2400-2483.5MHz	
Operating Frequency:	From 2402MHz to 2480MHz	
Channel bandwidth	2MHz	
Channel spacing	2MHz	
Number of Channel	40	
Type of modulation :	GFSK	
Antenna Type	Integrated antenna	



1.2 Ports identification

This section contains descriptions of all signal ports and AC/DC power input/output ports, the length and the type of the cable provided by manufacturer needed for the tests. Moreover it is specified if the ports are ever or optionally connected.

	Port	Description	Connection
1	Enclosure	Plastic / Cloth	
2	AC Power Supply	Port not present	
3	DC power supply	Port not present (internal battery)	Battery
4	Signal lines	Port not present	
5	Telecomm. Lines	Port not present	
6	Antenna port	Integrated antenna	

Note: During the tests all cables must be what provided the manufacturer or the same that used in the real employment of the EUT.

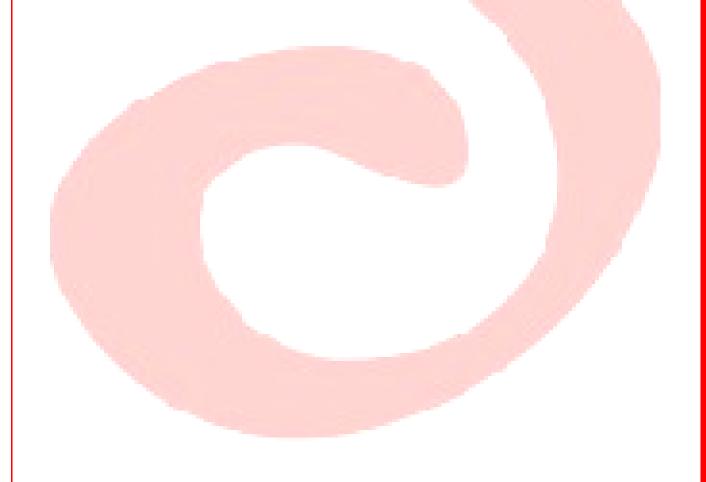
1.3 Auxiliary equipment

None



2 REFERENCE STANDARDS

CODE OF FEDERAL REGULATIONS	
Title 47 Part 1 Subpart I § 1.1310	Procedures Implementing the National Environmental Policy Act of 1969. Radiofrequency radiation exposure limits.
Title 47 Part 2 Subpart J § 2.1091	Radiofrequency radiation exposure evaluation: mobile devices.
ANSI C63.4	American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz





3 MEASUREMENTS AND CALCULATION RESULTS

3.1 RF Output Power:

Tx frequency range: 2402 – 2480 MHz Maximum Output Power: -7.4dBm (0.182mW)

3.2 Calculation method and limits

SAR Test Exclusion Thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [$\sqrt{f(GHz)}$] ≤ 3.0 (for 1-g body SAR) or 7.5 (for 10-g extremity SAR)

where respectively

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

3.3 Calculation results

Maximum Output Power: 0.182mW Min Test separation distance: 5mm

f: 2.480GHz (as worst case)

Exclusion Threshold: 7.5 (10-g extremity SAR)

$$\frac{0.182mW}{5mm} * \sqrt{2.480} = 0.057 \le 7.5$$

RESULT: The device is excluded from SAR testing.