

FCC ID: U9N10542B

Page 1 of 2

Statement of compliance to Maximum Permissible Exposure (MPE)

Equipment : BAM for the iRobot Create

Type/Model : 10542B

Applicant : Element Products, Inc.

5155 West 123rd Place, Broomfield, CO, 80020, US

Manufacturer : Modulestek Inc.

No.208, Zhengkang 1st St., Taoyuan City,

Taoyuan County 33043, Taiwan

Here assuming a worst-case prediction of power density (100% reflection), then $S = 4PG / (4\pi R^2) = PG / (\pi R^2)$.

Where $S = power density in mW/cm^2$

P = transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report JSH007040579-001:

The maximum P = 9.14dBm = 8.20mW

G = 0.5 dBi = 1.12

Here R is chosen to be 1.8 cm.

 $S = PG / (\pi R^2) = 8.20 * 1.12 / (1.8^2 * 3.14) = 0.91 \text{ mW/cm}^2$

This level is below the 1 mW/cm² MPE for General Population / Uncontrolled Exposure as stated in OET BULLETIN 65 Edition 97-01.

Conclusion: this EUT fulfills 47CFR Part 15.247(i) (2006) with the precautions are outlined in the User's Manual to prevent exposure to high levels of RF energy. (See appendix I)

Date of issue: June 19, 2007

Prepared by:

Wakeyou Wang (Project engineer)

Reviewed by:

Jonny Jing (Reviewer)



FCC ID: U9N10542B

Page 2 of 2

Appendix I

Precautions below must be outlined in the User's Manual to prevent exposure to high levels of RF energy:

The radiated output power of this device is below the FCC radio frequency exposure limits based on that human proximity to the antenna shall not be less than 1.8cm (3/4 inch) during normal operation.