
Project 13461-10

Prepared for:
Traxxas LLP
1100 Klein Road
Plano, TX 75074

By

Professional Testing (EMI), Inc.
1601 N. A.W. Grimes Blvd., Suite B
Round Rock, Texas 78665

April 6, 2012

MPE / RF Exposure Report
Drag Timing System Finish End
FCC ID: XVE-SA11200

Table of Contents

Title Page	1
Table of Contents	2
Certificate of Compliance.....	4
1.0 MPE Prediction.....	4
1.1 Evaluation Procedure	4
1.2 Evaluation Criteria	4

NOTICE: (1) This Report must not be used to claim product endorsement, by NVLAP, NIST, the FCC or any other Agency. This report also does not warrant certification by NVLAP or NIST.

(2) This report shall not be reproduced except in full, without the written approval of Professional Testing (EMI), Inc.

(3) The significance of this report is dependent on the representative character of the test sample submitted for evaluation and the results apply only in reference to the sample tested. The manufacturer must continuously implement the changes shown herein to attain and maintain the required degree of compliance.



Applicant: Traxxas LLP
Applicant's Address: 1100 Klein Road
Plano, Texas 75074
FCC ID: XVE-SA11200
Project Number: 13461-10
Test Dates: March 9, 2012

I, Jesse Banda, for Professional Testing (EMI), Inc., being familiar with the FCC rules and test procedures have reviewed the test setup, measured data and this report. I believe them to be true and accurate.

Jesse Banda
EMC Engineer

This report has been reviewed and accepted by Traxxas LLP. The undersigned is responsible for ensuring that this device will continue to comply with the FCC rules.

Traxxas LLP, Representative

1.0 MPE Prediction

Prediction of MPE limit at a given distance was made by using equation from page 18 of OET Bulletin 65, Edition 97-01.

1.1 Evaluation Procedure

$$S=PG/4\pi R^2$$

or

$$S=EIRP/4\pi R^2$$

Where: S = power density

P= power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

EIRP = Equivalent (or effective) isotropcially radiated power

1.2 Antenna Gain

The Antenna gain is 7.64 dBi

1.3 Evaluation Criteria

MPE limit for uncontrolled exposure at prediction frequency (mW/cm²): 1.0

MPE Prediction Calculation

Frequency (MHz)	EIRP (mW)	Waiver Limit (60/f(GHz)) (mW)	Minimum Exposure Distance (cm)	RF Field Density (mW/cm ²)	MPE Limit (mW/cm ²)	Result (P/F)
2406	41.591	24.94	20	8.27E-03	1.00	PASS
2426	40.551	24.73	20	8.07E-03	1.00	PASS
2453	34.514	24.46	20	6.87E-03	1.00	PASS

Calculations

2406 MHz: $S = \text{EIRP} / 4\pi R^2 = 41.591 \text{mW} / (4 * \pi * 20 \text{cm} * 20 \text{cm}) = 0.00827 \text{mW/cm}^2$

2426 MHz: $S = \text{EIRP} / 4\pi R^2 = 40.551 \text{mW} / (4 * \pi * 20 \text{cm} * 20 \text{cm}) = 0.00807 \text{mW/cm}^2$

2453 MHz: $S = \text{EIRP} / 4\pi R^2 = 34.514 \text{mW} / (4 * \pi * 20 \text{cm} * 20 \text{cm}) = 0.00687 \text{mW/cm}^2$