ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
CERTIFICATION TO FCC PART 15 REQUIREMENTS

for

UNINTENTIONAL RADIATOR

49.860MHz RC RECEIVER

MODEL NO: 97993

BRAND NAME: TYCO RC-9.6V STREET BEAST TRUCK

FCC ID NO: APB97993-02A4R

REPORT NO: 02U1284-2

DATE: MAY 14, 2002

Prepared for
MATTEL MT. LAUREL
6000 MIDLANTIC AVENUE
MT. LAUREL, NJ 08054
USA

Prepared by
COMPLIANCE CERTIFICATION SERVICES
561 F MONTEREY ROAD
MORGAN HILL, CA 95037, USA
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1. VERIFICATION OF COMPLIANCE

COMPANY NAME	:	MATTEL MT. LAUREL 6000 MIDLANTIC AVENUE MT. LAUREL, NJ 08504 USA
CONTACT PERSON	:	FRANK WINKLER, SENIOR PROJECT
TELEPHONE NO.	:	856-840-1259
EUT DESCRIPTION	:	49.860MHz RC RECEIVER
MODEL NAME/NUMBER	:	97993
BRAND NAME	:	TYCO RC-9.6V STREET BEAST TRUCK
FCC ID	:	APB97993-02A4R
DATE TESTED	:	APRIL 26, 2002
REPORT NUMBER	:	02U1284-2

TYPE OF EQUIPMENT	REMOTE CONTROL TOY RECEIVER (UNINTENTIONAL RADIATOR)
EQUIPMENT TYPE	49 MHz SUPERREGENERATE RECEIVER
MEASUREMENT PROCEDURE	ANSI 63.4 / 1992
LIMIT TYPE	CERTIFICATION
FCC RULE	CFR 47, PART 15 SUBPART B

The above equipment was tested by Compliance Engineering Services, Inc. for compliance with the requirements set forth in CFR 47, PART 15 SUBPART B. This said equipment in the configuration described in this report shows that maximum emission levels emanating from equipment are within the compliance requirements. **Warning**: This document reports conditions under which testing was conducted and results of tests performed. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification will constitute fraud and shall nullify the document.

Tested By:

THU CHAN
SENIOR EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

Approved & Released For CCS By:

MIKE HECKROTTE
CHIEF ENGINNER
COMPLIANCE CERTIFICATION SERVICES

2. PRODUCT DESCRIPTION

MATTEL MT. LAUREL., Model No# 97993 TYCO RC-9.6V STREET BEAST TRUCK is the receiving portion of a remote control toy. The associated Transmitter is manufactured by MATTEL MT. LAUREL., Model No#97993 , FCC ID APB97993-02A4T.

3. TEST FACILITY

The 3 meter open area test site and conducted measurement facility used to collect the radiated data is located at 561F Monterey Road, Morgan Hill, California, U.S.A. A detailed description of the test facilities was submitted to the Commission on May 27, 1994.

The measuring instrument, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4. MEASUREMENT EQUIPMENT USED

TEST EQUIPMENTS LIST				
Name of Equipment	Manufacturer	Model No.	Serial No.	Due Date
Spectrum Analyzer	HP100Hz - 22GHz	8566B	2140A01296	5/4/02
Spectrum Display	HP	85662A	2152A03066	5/10/02
Quasi-Peak Detector	HP9K - 1GHz	85650A	2811A01335	5/4/02
Pre-Amplifier, 25 dB	HP 0.1 - 1300MHz	8447D (P_1M)	2944A06833	8/21/02
Antenna, BiLog	Chase EMC Ltd.30 - 2000MH	CBL6112	2049	8/2/02
Signal Generator	HP	8640B	2322A22402	4/10/03

5. TEST CONFIGURATION

Set signal generator to transmit at 49 MHz. Adjusted generator level and frequency to get the maximum coherent and emission of the Eut. The receiver receives the signal. All the wires are placed on the turntable to their maximum length to simulate the worse emission condition.

6. TESTS CONDUCTED

CFR 47, 15.109 RADIATED EMISSION TESTS	CONDUCTED AT 3 METERS

7. RADIATED EMISSION TEST PROCEDURE

The EUT and all other support equipment are placed on a wooden table 80 cm above the ground screen. Antenna to EUT distance is 3 meters. During the test, the table is rotated 360 degrees to maximize emissions and the antenna is positioned from 1 to 4 meters above the ground screen to further maximize emissions. The antenna is polarized in both vertical and horizontal positions.

Monitor the frequency range of interest at a fixed antenna height and EUT azimuth. Frequency span should be small enough to easily differentiate between broadcast stations and intermittent ambients. Rotate EUT 360 degrees to maximize emissions received from EUT. If emission increases by more than 1 dB, or if another emission appears that is greater by 1 dB, return to azimuth where maximum occurred and perform additional cable manipulation to further maximize received emission.

Move antenna up and down to further maximize suspected highest amplitude signal. If emission increased by 1 dB or more, or if another emission appears that is greater by 1dB or more, return to antenna height where maximum signal was observed and manipulate cables to produce highest emissions, noting frequency and amplitude.

8. COHERENT TEST

During Radiated Emission Tests, H.P. Signal Generator Model No: 8640B was used to radiate unmodulated CW signal to EUT at 49.882 MHz. Please refer to radiated emission data for six highest readings.

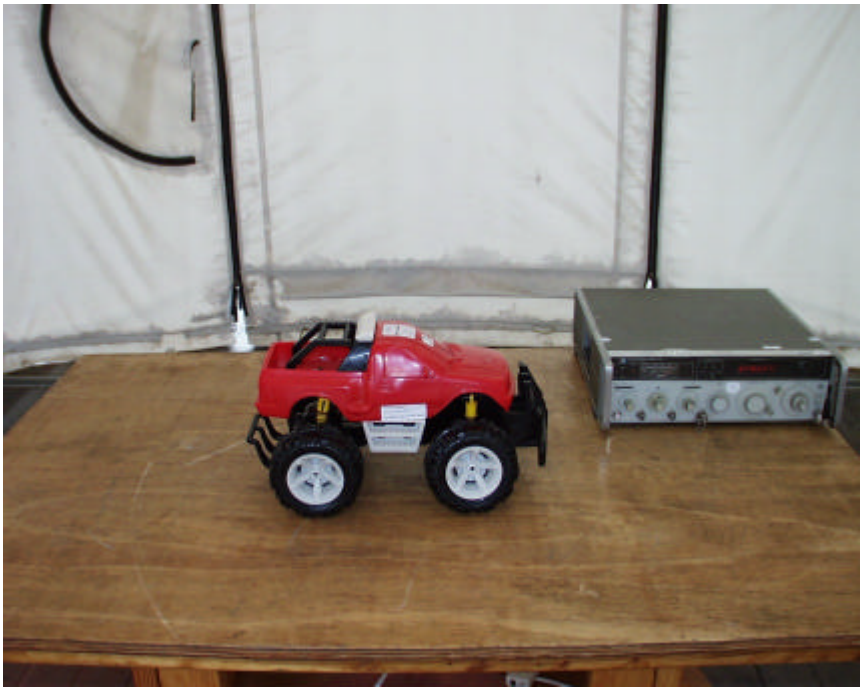
COMPLIANCE CERTIFICATION SERVICES CCS DOCUMENT NO: CCSUP4021B
561 F MONTEREY, MORGAN HILL CA 95037 TEL:(408)463-0885 FAX:(408)463-0885

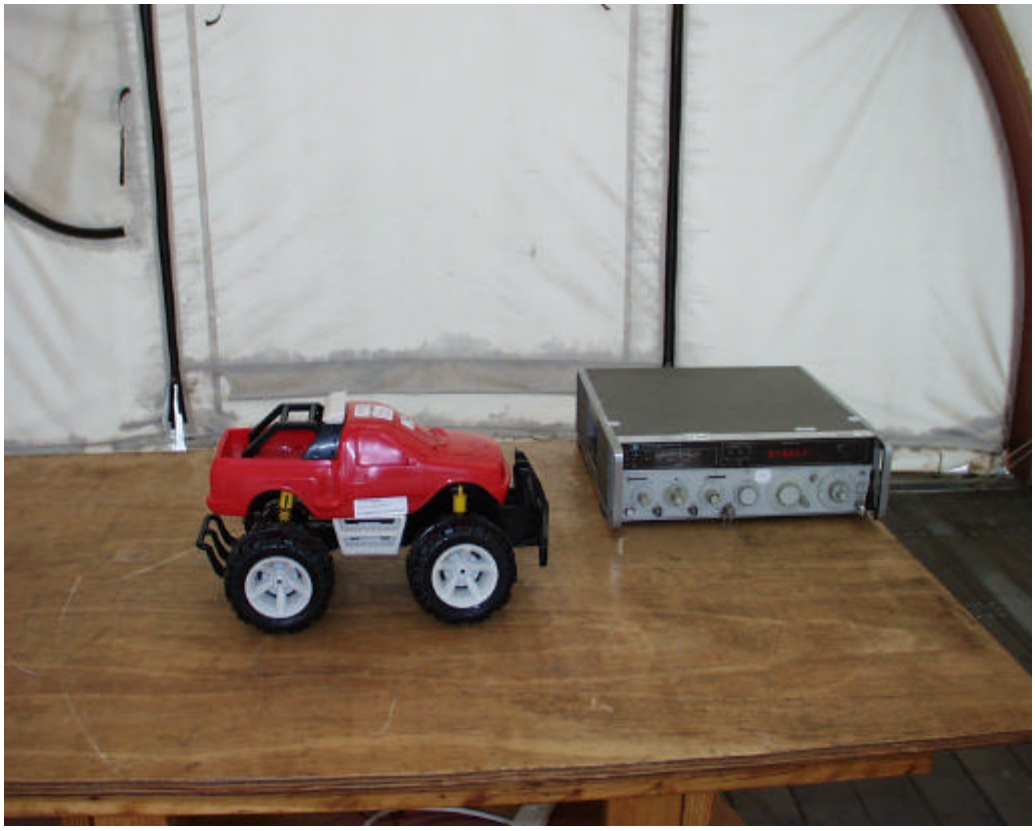
9. EQUIPMENT MODIFICATIONS

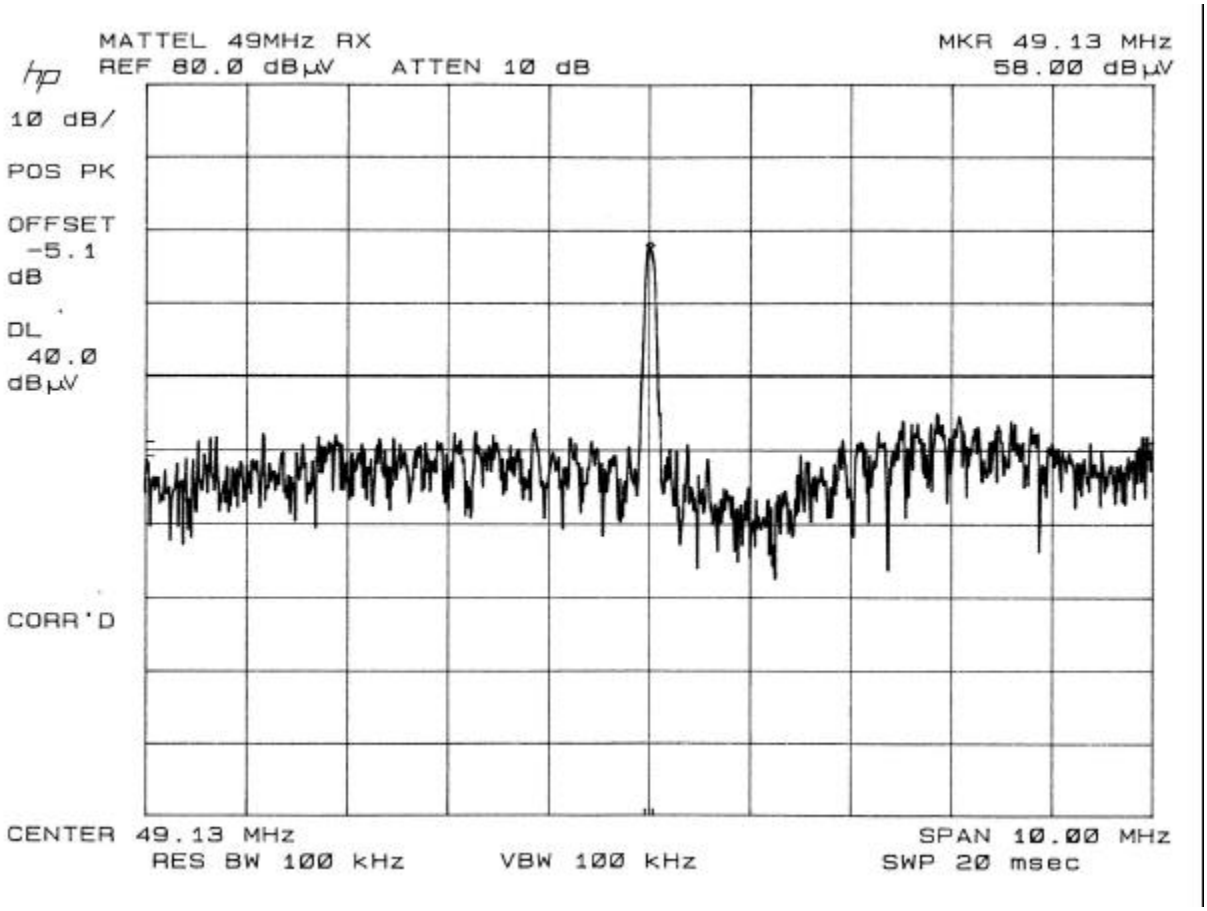
To achieve compliance to FCC Section 15.109, the following change(s) were made during compliance testing:

No changes were required in order to achieve compliance to FCC Section 15.109.

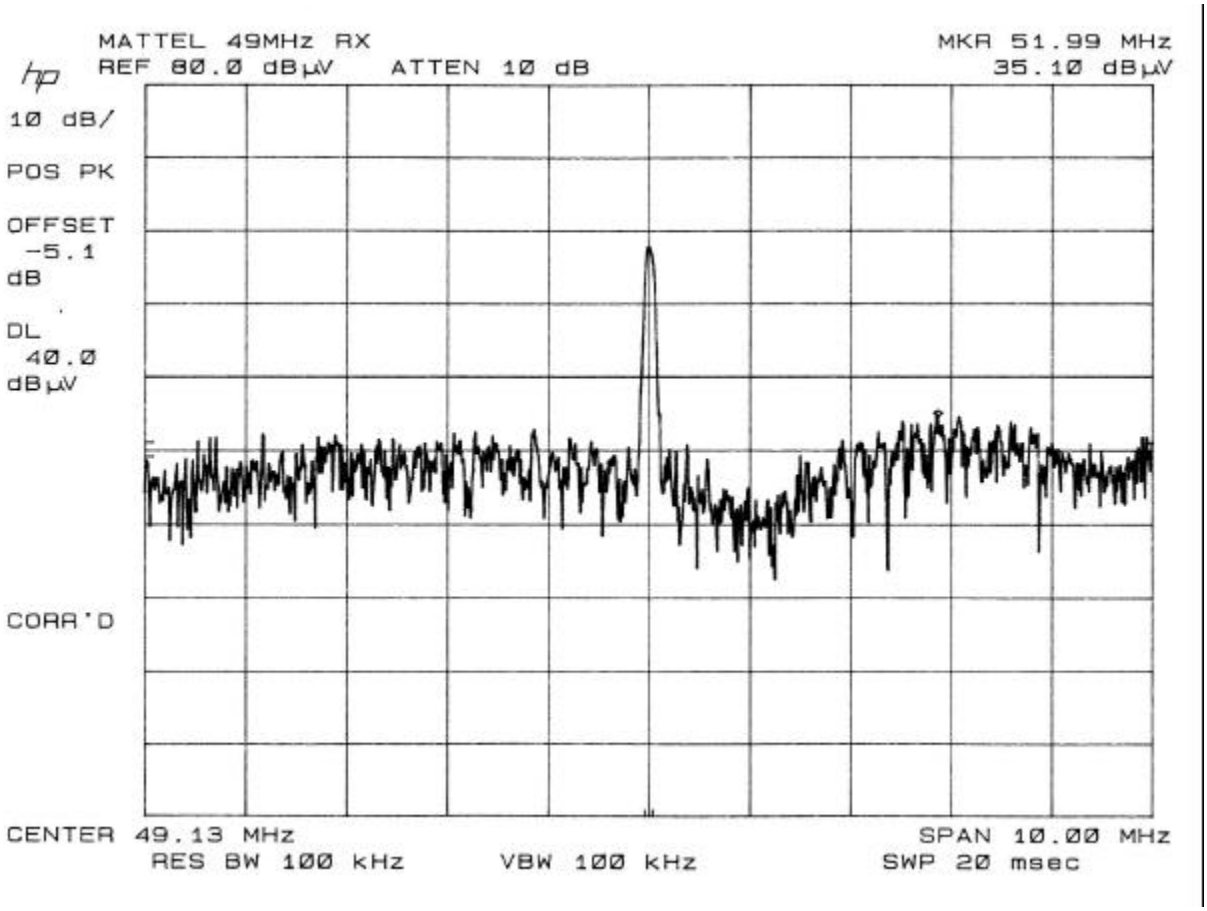
10. TEST CONFIGURATION PHOTOS (Radiated Emission Test)







COHERENT EMISSION PLOT



COHERENT EMISSION PLOT

COMPLIANCE Certification Services
FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

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PHONE: (408) 463-0885 FAX: (408) 463-0888

Project #: 02U1284-1
Report #: 020426C1
Date& Time: 04/26/02 3:03 PM
Test Engr: Thu Chan

Company: Mattel Mount Laurel FW
EUT Description: 49MHz Receiver For RC Toy (M/N: Street Beast)
Test Configuration : EUT/Signal Generator
Type of Test: FCC Class B
Mode of Operation: Receiving Mode

○ A-Site ○ B-Site ◉ C-Site ○ F-Site 6 Worst Data Descending

Freq. (MHz)	Reading (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit FCC B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)	Mark (P/Q/A)
46.43	47.40	11.79	0.88	27.51	32.55	40.00	-7.45	3mV	0.00	1.00	P
46.65	47.50	11.73	0.88	27.51	32.60	40.00	-7.40	3mV	0.00	1.00	P
46.83	47.30	11.69	0.88	27.51	32.36	40.00	-7.64	3mV	0.00	1.00	P
47.20	47.20	11.60	0.88	27.51	32.17	40.00	-7.83	3mV	0.00	1.00	P
47.94	48.50	11.41	0.88	27.50	33.29	40.00	-6.71	3mV	0.00	1.00	P
48.16	48.60	11.36	0.88	27.50	33.34	40.00	-6.66	3mV	0.00	1.00	P
48.35	48.50	11.31	0.88	27.50	33.19	40.00	-6.81	3mV	0.00	1.00	P
48.53	48.40	11.26	0.88	27.50	33.05	40.00	-6.95	3mV	0.00	1.00	P
48.73	48.80	11.21	0.88	27.50	33.40	40.00	-6.60	3mV	0.00	1.00	P
48.91	46.60	11.17	0.88	27.50	31.15	40.00	-8.85	3mV	0.00	1.00	P
49.24	44.30	11.09	0.88	27.49	28.77	40.00	-11.23	3mV	0.00	1.00	P
49.46	44.80	11.03	0.88	27.49	29.22	40.00	-10.78	3mV	0.00	1.00	P
49.65	43.60	10.99	0.88	27.49	27.97	40.00	-12.03	3mV	0.00	1.00	P
50.82	44.90	10.62	0.88	27.49	28.91	40.00	-11.09	3mV	0.00	1.00	P
51.03	45.90	10.55	0.88	27.49	29.84	40.00	-10.16	3mV	0.00	1.00	P
51.21	48.30	10.49	0.88	27.49	32.18	40.00	-7.82	3mV	0.00	1.00	P
51.38	48.50	10.43	0.88	27.49	32.33	40.00	-7.67	3mV	0.00	1.00	P
51.57	49.20	10.37	0.88	27.49	32.96	40.00	-7.04	3mV	0.00	1.00	P
51.76	50.60	10.30	0.88	27.48	34.30	40.00	-5.70	3mV	0.00	1.00	P
51.95	50.80	10.24	0.88	27.48	34.44	40.00	-5.56	3mV	0.00	1.00	P
52.15	51.20	10.17	0.88	27.48	34.77	40.00	-5.23	3mV	0.00	1.00	P
52.35	49.80	10.10	0.88	27.48	33.30	40.00	-6.70	3mV	0.00	1.00	P
52.52	50.40	10.04	0.89	27.48	33.85	40.00	-6.15	3mV	0.00	1.00	P
52.73	50.10	9.97	0.89	27.48	33.48	40.00	-6.52	3mV	0.00	1.00	P

No other emissions were found up to 1GHz.
Total data #: 24
V.2c

RADIATION DATA

END OF REPORT