

No.: HM112557

Test Report

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ACCREDITED TESTING LABORATORY

DAR Registration No.: TTI-P-G150/98-01

ACCREADITED BY Deutsche Akkreditierungsstelle Technik (DATech) e.v.

FCC PART 15 SUBPART B TEST REPORT

TEST REPORT No.: HM112557

Equipment Under Test [EUT]: Model Number: Applicant: FCC ID: 1/6th Monster Truck B9527 Mattel Asia Pacific Sourcing Ltd. PIYB9527-04A4R

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CONCLUSION

The submitted product was deemed to have <u>COMPLIED</u> with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Verified by Ivan Toa Patrick Wong for Chief Executive

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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd. EMC Laboratory 10 Dai Wang Street, Taipo Industrial Estate New Territories, Hong Kong

Telephone:	852 2666 1888
Fax:	852 2664 4353

1.2 Applicant Details Applicant

Mattel Asia Pacific Sourcing Ltd. 13/F., South Tower, World Finance Centre, Harbour City, Tsim Sha Tsui, Kowloon, Hong Kong

HKSTC Code Number for Applicant

JEC002

Manufacturer

Jetta Company Limited Jetta House, 19 On Kui Street, On Lok Tsuen, Fanling, N.T., Hong Kong

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1.3 Equipment Under Test [EUT] Description of Sample

Product:	1/6th Monster Truck
Manufacturer:	Jetta Company Limited
Brand Name:	N/A
Model Number:	B9527
Input Voltage:	7.2V

Remark: The test is for the Mobile Truck only, the transmitter not do the test.

1.3.1 Description of EUT Operation

The Equipment Under Test (EUT) (49MHz Superregenerative receiver) is a Mattel Asia Pacific Sourcing Ltd., 1/6th Monster Truck.

1.4 Date of Order

2004-01-09

1.5 Submitted Sample(s):

2 samples per model

1.6 Test Duration

2004-01-20

1.7 Country of Origin

N/A

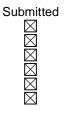
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1.8 Additional Information of EUT

User Manual Part List Circuit Diagram Printed Circuit Board [PCB] Layout Block diagram FCC DOC Label



Not Available

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2.0 Technical Details

2.1 Investigations Requested

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.4: 2003 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class /	Test Result		t
			Severity	Pass	Failed	N/A
Radiated Emissions, 30MHz to 1GHz	FCC 47CFR 15.109	ANSI C63.4:2003	Class B	\boxtimes		
Conducted Emissions on AC, 0.15MHz to 30MHz	FCC 47CFR 15.107	ANSI C63.4:2003	Class B			\square

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

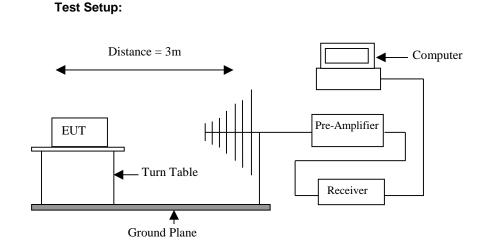
3.1.1 Radiated Emissions (30MHz to 1GHz)

Test Requirement: Test Method: Test Date: Mode of Operation: FCC 47CFR 15.109 Class B ANSI C63.4:2003 2004-01-20 Rx mode

Test Method:

The sample was placed 0.8m above the ground plane on the OATS *. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

*: OATS [Open Area Test Site] located at HKSTC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 90657.



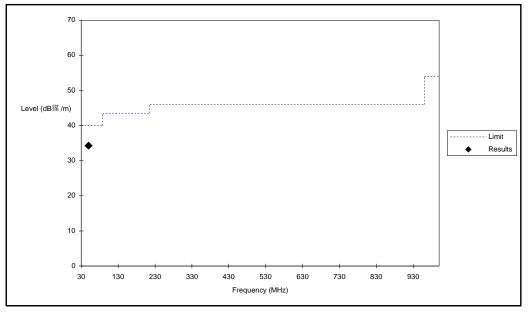
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Limits for Radiated Emissions [FCC 47 CFR 15.109 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasipeak detector and above 1000MHz are based on measurements employing an average detector.

Results:



* Operating conditions.

According to ANSI C63.4 2003, Section 12.1.1.1, During the test a signal generator, shall be used to radiated an un-modulated CW signal to a superregenerative receiver at its operating frequency in order to "cohere".

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Results:



** For effective averaging, the bandwidth of the video filter must be smaller than the resolution bandwidth. The higher the ratio of resolution bandwidth to video bandwidth, the greater the averaging will be recorded. Below setting for HP8572A EMI Receiver.

Resolution Bandwidth=3MHzVideo Bandwidth=1Hz

Calculated measurement uncertainty: ±5.7dB

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3.1.2 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: Test Method: Test Date: Mode of Operation: FCC 47CFR 15.107 Class B ANSI C63.4:2003 2004-01-20 N/A

Results: N/A

The EUT is operated by a single source of internal battery power [located in the battery compartment], therefore power line conducted emission was deemed unnecessary.

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Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	
EM007	SPECTRUM ANALYZER	HEWLETT PACKARD	HP85660B	3144A21192	14/03/03	
EM008	SPECTRUM ANALYZER DISPLAY	HEWLETT PACKARD	HP85662A	3144A20514	14/03/03	
EM009	QUASI PEAK ADAPTOR	HEWLETT PACKARD	HP85650A	3303A01702	14/03/03	
EM010	RF PRESELECTOR	HEWLETT PACKARD	HP85685A	3221A01410	14/03/03	
EM011	ATTENNUATOR/SWITCH	HEWLETT PACKARD	HP11713A	2508A10595	14/03/03	
EM012	PRE-AMPLIFIER	HEWLETT PACKARD	HP8449B	3008A00262	14/03/03	
EM013	CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE FLOPPY DRIVE	HEWLETT PACKARD HEWLETT PACKARD HEWLETT PACKARD	HP9000 HP A1097C HP9133L	6226A60314 3151J39517 2623A02468	СМ	
EM020	HORN ANTENNA	EMCO	3115	4032	30/07/03	
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	04/08/00	
EM072	SIGNAL GENERATOR	HEWLETT PACKARD	8640B	1948A11892	N/A	
EM083	HKSTC OPEN AREA TEST SITE	HKSTC	N/A	N/A	08/11/02	
EM131	PORTABLE SPECTRUM ANALYSER	HEWLETT PACKARD	8595EM	3710A00155	18/12/01	
EM145	EMI TEST RECEIVER	R & S	ESCS 30	830245/021	02/08/03	
EM194	BICONILOG ANTENNA	EMCO	3142B	1795	14/05/02	
EM195	ANTENNA POSITIONING MAST	EMCO	2075	2368	N/A	
EM196	MULTI-DEVICE CONTROLLER	EMCO	2090	1662	N/A	

Conducted Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM078	VARIAC	SHANGHAI VOLTAGE	TDGC-3/0.5	N/A	CM
EM081	SMALL SCREENED ROOM	MIKO INST HK	N/A	N/A	18/10/02
EM119	LISN	R & S	ESH3-Z5	0831.5518.52	01/10/02
EM127	ISOLATION TRANSFORMER 220 TO 300	WING SUN	N/A	N/A	СМ
EM142	PULES LIMITER	R&S	ESH3Z2	357.8810.52	03/07/02
EM181	EMI TEST RECEIVER	R & S	ESIB7	100072	28/11/01
EM154	SHIELDING ROOM	SIEMENA MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	18/10/02
EM197	LISN	EMCO	4825/2	1193	08/04/03

Remarks:

CM Corrective Maintenance

N/A Not Applicable or Not Available

TBD To Be Determined

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Appendix B

Photographs of EUT

Front View of the product



Inner Circuit Top View

Rear View of the product



Inner Circuit Bottom View





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Photographs of EUT

Measurement of Radiated Emission Test Set Up



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