The Hong Kong Standards and Testing Centre Ltd

TEST REPORT

1998-03-21

No.: HM836A/504

APPLICANT: (CODE : 011327)

KIN YAT INDUSTRIAL CO., LTD.
7/F Block A-B Galaxy Factory Bldg.,
25-27 Luk Hop St., San Po Kong,
Kowloon,
HONG KONG.

DATE OF SAMPLES RECEIVED: 1998-03-12

DATE OF TESTING: 1998.03.19

DESCRIPTION OF SAMPLE(S):

A sample of product said to be:

Product:	Land Shark (Radio-Controlled Car)
Manufacturer:	Kin Yat Ind. Toys Factory
Model Number:	65402
Brand Name:	KENNER
Rating:	DC 9.6V Power Pack
Origin:	Made in China

INVESTIGATIONS REQUESTED:

Measurement to the relevant clauses of F.C.C. Rules and Regulations Part 15 Subpart B - Unintentional Radiator.

RESULT/ REMARK: Please see attached sheet(s).

CONCLUSION:

From the measurement data obtained, the tested sample was considered to have COMPLIED with the clause 15.109(a) for the Receiver Section of Federal Communication Rules and Regulation Part 15 and ANSI C63.4-1992 Section 12.1.1.1-2.

TEST EQUIPMENT AUDIT: Please see Appendix A

Gulam Hussein Bharuchi
for Managing Director

Members of:
Federation of Hong Kong Industries
International Safe Transit Association
American Society for Testing & Materials
The Hong Kong General Chamber of Commerce

The Hong Kong Toys Council
The Hong Kong Exporter's Association
The Hong Kong Association of Certification Laboratories

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TEST SUMMARY

(A) Measurement of Radiated Emissions .....**Satisfactory**

(B) Line Conducted Voltage Test. .....**Not applicable**

TEST DATA

Please refer to the attached result sheets.

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*** RECEIVER SECTION ***

(A) Measurement of Radiated Interference

TEST REFERENCE: FCC Rules Part 15 Subpart B section 15.109(a)
TEST CONDITION : Normal
TEST DATE : 1998.03.19

Freq. to which tuned	Freq of the emission		Meter reading (at 3m)		Antenna factor		Field Strength (at 3m)		FCC Limit @
MHz	MHz		dB(μV)		dB		dB(μV/m)	μV/m	μV/m
49.860	49.9	V <	18.4	+	15.0		33.4	47	100
	99.7	H <	1.0	+	12.2	<	12.2	< 4	150
	149.6	H <	1.0	+	9.8	<	9.8	< 3	150
	199.4	H <	1.0	+	11.5	<	11.5	< 4	150
	249.3	H <	1.0	+	15.9	<	15.9	< 6	200
	299.1	H <	1.0	+	17.0	<	17.0	< 7	200
	349.0	H <	1.0	+	17.2	<	17.2	< 7	200
	398.8	H <	1.0	+	18.8	<	18.8	< 9	200
	448.7	H <	1.0	+	19.7	<	19.7	<10	200
	498.6	H <	1.0	+	20.6	<	20.6	<11	200
	548.4	H <	1.0	+	22.2	<	22.2	<13	200
	598.3	H <	1.0	+	23.4	<	23.4	<15	200
	648.1	H <	1.0	+	23.5	<	23.5	<15	200
	698.0	H <	1.0	+	25.0	<	25.0	<18	200
	747.8	H <	1.0	+	26.2	<	26.2	<20	200
	797.7	H <	1.0	+	27.2	<	27.2	<23	200
	847.5	H <	1.0	+	27.2	<	27.2	<23	200
	897.5	H <	1.0	+	27.2	<	27.2	<23	200
	947.2	H <	1.0	+	27.8	<	27.8	<25	200
	997.1	H <	1.0	+	28.5	<	28.5	<26	500

SUMMARY

All data is within limits

Broad-band Antennas were used and both polarizations of emissions were measured
Polarizations at highest reading indicated as:

H -- Horizontal V -- Vertical

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NOTES FOR THE RADIATION MEASUREMENT

(1) Test site facility:
Open field test site located at Taipo (Hong Kong) with a metal ground plane on filed with the FCC pursuant to section 2.948 of the FCC Rules.

(2) Distance between the ET and measuring antenna:
3 meters.

(3) Measuring instrumentation's:
CISPR Quasi-peak type field strength meter (25 MHz - 1000 MHz.). 6 dB bandwidth set at 120 KHz. Also, peak level of the fundamental emissions was measured in order to determine compliance with the 20dB peak to average limit specified in Section 15.35(b) of the FCC new Rules.

(4) Measuring antenna:
Broad band antenna for the frequency range 25-1000 MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable. included in the Antenna Factor for measurement data. The antenna are capable of measuring both horizontal and vertical polarizations.

(5) Frequency range scanned:
The frequency range from 25 MHz to 1000 MHz had been searched. Readings of the highest emissions relating to the limit were reported as above.

(6) Arrangement of EUT:
During the test, the sample was operated at rated supply voltage and arranged for maximum emissions.

(7) Measuring Procedure:
In accordance with the relevant clauses of the FCC Rules Part 15 section 15.109(a) and ANSI C63.4:1992 section 12.1.1.1-2.

(8) Measuring Uncertainty:
The calculated uncertainty for measurement performed at 3M test distance are:-
30MHz to 200MHz = ± 3.7dB, 200MHz to 1000MHz = + 3.0dB/-2.7dB.

Remark: Purpose of this test is to provide the Applicant with the necessary test data of their device for the submission to FCC with application for Equipment Authorization under FCC's Equipment Authorization Program. This test itself is not an Approval Test.

******** End of Document ********

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Appendix A

TEST EQUIPMENT AUDIT

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM007	SPECTRUM ANALYZER	H P	HP85660B	3144A21192	02/05/97
EM008	SPECTRUM ANALYZER DISPLAY	H P	HP85662A	3144A20514	02/05/97
EM009	QUASI PEAK ADAPTOR	H P	HP85650A	3303A01702	02/05/97
EM010	RF PRESELECTOR	H P	HP85685A	3221A01410	02/05/97
EM011	ATTENNUATOR/SWITCH	H P	HP11713A	2508A10595	02/05/97
EM012	PRE-AMPLIFIER	H P	HP8449B	3008A00262	02/05/97
EM013	CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE FLOPPY DRIVE	H P H P H P	HP9000 HP A1097C HP9133L	6226A60314 3151J39517 2623A02468	CM
EM017	ANTENNA	ARA INC.	LPB-2513/A	1069	31/12/97
EM072	SIGNAL GENERATOR	HP	8640B	1948A11892	25/03/97
EM083	HKSTC OPEN AREA TEST SITE	HKSTC	N/A	N/A	16/02/98

ABBREVIATIONS:

CM = Corrective Maintenance
N/A= Not Applicable