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TEST REPORT

No.: HM102316

APPLICANT: (CODE: TIE002)
TIGER ELECTRONICS INC.
980 WOODLANDS PARKWAY, VERNON HILLS, IL 60061, U.S.A.

DATE OF SAMPLES RECEIVED: 2000-03-13

DATE OF TESTING: 2000-03-17

DESCRIPTION OF SAMPLE(S):
A sample of product said to be:

Product:	ACTION MAN RADIO CONTROLLED CAR
Manufacturer:	KIN YAT INDUSTRIAL CO., LTD.
Model Number:	12-018
Brand Name:	TIGER
Rating:	9.0Vd.c.("6F22" size battery × 1)
Origin:	CHINA

INVESTIGATIONS REQUESTED:
Measurement to the relevant clauses of F.C.C. Rules and Regulations Part 15 Subpart C - Intentional 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 15.235 of Federal Communications Commission Rules and Regulations Part 15.

TEST EQUIPMENT AUDIT: Please see Appendix A

Law Man Kit	Kitty Choi	Patrick Wong
Testing Engineer	Verify by	Patrick Wong for Managing Director

TEST REPORT

T E S T S U M M A R Y

*** INTENTIONAL RADIATOR ***

(1)	Measurement of Emission of RF energy on the carrier frequency.....	Satisfactory
(2)	Measurement of the out-of band emissions including harmonics.....	Satisfactory
(3)	Measurement of Emission Within Band Edges.....	Satisfactory
(4)	Measurement of Line-Conducted Voltage onto AC Power Line.....	Not applicable

T E S T D A T A

Please refer to the attached result sheets.

TEST REPORT

*** INTENTIONAL RADIATOR ***

(1) Measurement of Radiated Interference

TEST REFERENCE : FCC Rules Part 15 Section 15.235(49.82-49.90 MHz)
TEST CONDITION : Normal
TEST DATE : 2000-03-17.

Emission of RF energy on the carrier frequency -- 49.860 MHz
(PEAK VALUE)

Emission Frequency	Meter Reading	Polarization		Antenna Factor	Field Strength (at 3m)		FCC Limit
MHz	dB(μV)	H-V		dB	dB(μV/m)	μV/m	μV/m
49.9	63.7	V	+	15.0	78.7	8609.9	100000.0

Emission of RF energy on the carrier frequency -- 49.860 MHz
(AVERAGE VALUE)

Emission Frequency	Meter Reading	Polarization		Antenna Factor	Field Strength (at 3m)		FCC Limit
MHz	dB(μV)	H-V		dB	dB(μV/m)	μV/m	μV/m
49.9	55.0	V	+	15.0	70.0	3162.3	10000.0

... to be continued

TEST REPORT

No.: HM102316

*** INTENTIONAL RADIATOR ***

(1) Measurement of Radiated Interference . . Continued

TEST REFERENCE : FCC Rules Part 15 Section 15.235(49.82-49.90 MHz)
TEST CONDITION : Normal
TEST DATE : 2000-03-17

The out-of-band emissions, including harmonics (25-1000 MHz)
(CISPR VALUE)

Emission Frequency	Polarization	Meter reading (at 3m)		Antenna factor	Field Strength (at 3m)		FCC Limit @
MHz	H-V			dB	dB(μV)	μV/m	μV/m
99.7	H	19.6	+	12.2	31.8	38.9	150
149.6	V	16.5	+	9.8	26.3	20.7	150
199.4	V	12.8	+	11.5	24.3	16.4	150
249.3		< 1.0	+	15.9	< 16.9	< 7.0	200
299.2		< 1.0	+	17.0	< 18.0	< 7.9	200
349.0		< 1.0	+	17.2	< 18.2	< 8.1	200
398.9		< 1.0	+	18.8	< 19.8	< 9.8	200
448.7		< 1.0	+	19.7	< 20.7	< 10.8	200
498.6		< 1.0	+	20.6	< 21.6	< 12.0	200
548.5		< 1.0	+	22.2	< 23.2	< 14.5	200
598.3		< 1.0	+	23.4	< 24.4	< 16.6	200
648.2		< 1.0	+	23.5	< 24.5	< 16.8	200
698.0		< 1.0	+	25.0	< 26.0	< 20.0	200
747.9		< 1.0	+	26.3	< 27.3	< 23.2	200
797.8		< 1.0	+	27.2	< 28.2	< 25.7	200
847.6		< 1.0	+	26.6	< 27.6	< 24.0	200
897.5		< 1.0	+	27.1	< 28.1	< 25.4	200
947.3		< 1.0	+	28.0	< 29.0	< 28.2	200
997.2		< 1.0	+	28.5	< 29.5	< 29.9	500

==========SUMMARY==========

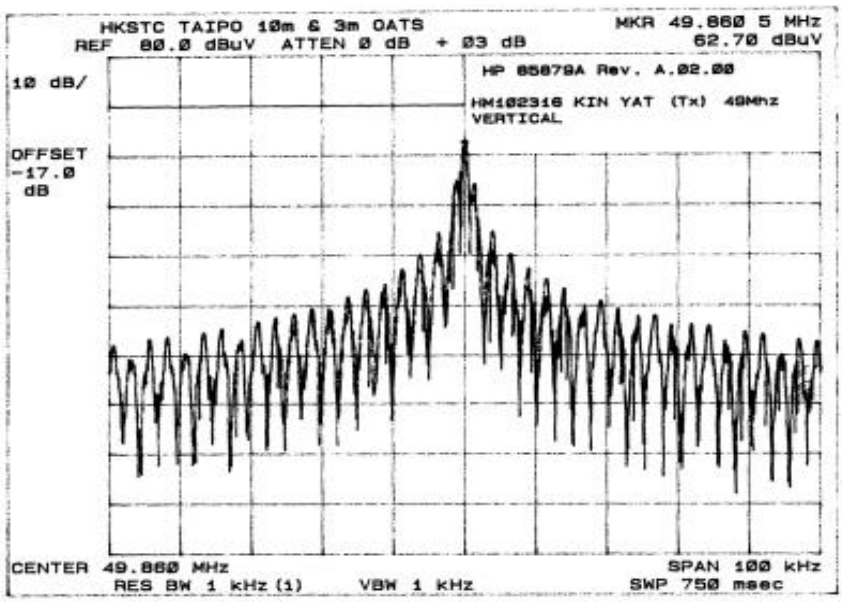
All data is within limits

Broad-band Antennas were used and both polarizations of emissions were measured.
polarizations at highest reading indicated as:
H -- Horizontal V -- Vertical

*** INTENTIONAL RADIATOR ***

(2) Measurement of Emissions Within Band Edges

TEST REFERENCE : FCC Rules Part 15 Section 15.235(49.82-49.90 MHz)
TEST CONDITION : Normal
TEST DATE : 2000-03-17



RESULTS AND NOTES

L: FCC Lower Band Edge.....-> 49.820MHz
H: FCC Higher Band Edge.....-> 49.900MHz
C: Unmodulated carrier at frequency.....-> 49.860MHz
D: No. of dB from unmodulated carrier.....-> 62.70dB

SPECTRUM ANALYZER SETTINGS

Resolution bandwidth : 17.7KHz
Frequency span : 10.0KHz/div
No. of dB/div : 10.0dB/div

FCC Limit

Minimum No. of dB from unmodulated carrier required : 26.0dB

==========SUMMARY==========

All data is within limits

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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 EUT and measuring antenna:
3 meters.

(3) Measuring instrumentations:
CISPR Quasi-peak type field strength meter (25 MHz - 1000 MHz). 6 dB bandwidth set at 120KHz. 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 15.235.

(8) Measuring Uncertainty:
The calculated uncertainty for measurement performed at 3M test distance are:-
30MHz to 300MHz = ± 3.7dB, 300MHz 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 Equipment Authorization Program. This test itself is not an Approval Test.

End of Document

TEST REPORT

APPENDIX A

TEST EQUIPMENT AUDIT

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL.
EM007	SPECTRUM ANALYZER	HEWLETT PACKARD	HP85660B	3144A21192	11/06/99
EM008	SPECTRUM ANALYZER DISPLAY	HEWLETT PACKARD	HP85662A	3144A20514	11/06/99
EM009	QUASI PEAK ADAPTOR	HEWLETT PACKARD	HP85650A	3303A01702	11/06/99
EM010	RF PRESELECTOR	HEWLETT PACKARD	HP85685A	3221A01410	11/06/99
EM011	ATTENNUATOR/SWITCH	HEWLETT PACKARD	HP11713A	2508A10595	11/06/99
EM012	PRE-AMPLIFIER	HEWLETT PACKARD	HP8449B	3008A00262	11/06/99
EM013	CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE FLOPPY DRIVE	HEWLETT PACKARD HEWLETT PACKARD HEWLETT PACKARD	HP9000 HP A1097C HP9133L	6226A60314 3151J39517 2623A02468	CM
EM017	ANTENNA	ARA INC.	LPB-2513/A	1069	17/02/00
EM072	SIGNAL GENERATOR	HEWLETT PACKARD	8640B	1948A11892	30/03/98
EM083	HKSTC OPEN AREA TEST SITE	HKSTC	N/A	N/A	25/02/99
EM145	EMI TEST RECEIVER	R & S	ESCS 30	830245/021	10/05/99

Remarks:-

CM Corrective Maintenance
N/A Not Applicable or Not Available
TBD To Be Determined