



國際電器認證中心有限公司 International Electrical Certification Centre Ltd.

提供電器產品測試國際認證及諮詢服務 Technical Services in Electrical Product Testing, International Certification & Information

Agent of 
Accredited Laboratory

FCC ID: L9G9900R

Exhibit 1 - Test Report

Head Office

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INTERNATIONAL ELECTRICAL CERTIFICATION CENTRE LTD.

**F C C -
TEST REPORT**

REPORT NO.: 15778/8/400F

Units 602-605, 6/F., 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong
Tel: [852] 2305-2570 Fax: [852] 2756-4480



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CENTRE LTD.

FCC – Test Report

No. 15778/8/400F

Date: 1998-06-24

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FCC listed testlab
acc. to Section 2.948 of the FCC - Rules

in compliance with the requirements of
ANSI C63.4 - 1992

Product : R/C Road Race Set – 49MHz
Receiver

Model : 9900

Importer : ARTIN INDUSTRIAL CO LTD

Manufacturer : ARTIN INDUSTRIAL CO LTD



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FCC – Test Report

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LABORATORY - REPORT

APPLICANT: ARTIN INDUSTRIAL CO LTD
ADDRESS: 2/F, Lee Sum Factory Building
21-25 Sze Mei Street
San Po Kong, Kowloon
HONG KONG

DATE OF SAMPLE RECEIVED: 1998-06-18

DATE OF TESTING: 1998-06-23

DESCRIPTION OF SAMPLE:

Product: R/C Road Race Set -- 49 MHz Receiver
Manufacturer: ARTIN INDUSTRIAL CO LTD
Model number: 9900
Rating: AC/DC Adaptor (Model no. DC60900A, Input : AC 120V 60Hz 25W,
Output : DC 6V x 2 900mA)
Country of Origin: P.R. CHINA

INVESTIGATIONS REQUESTED:

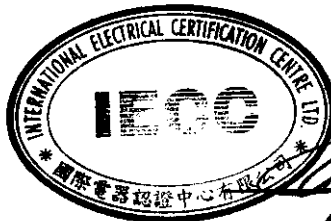
Measurements to the relevant clauses of F.C.C. Rules and Regulations
Part 15 Subpart B – 'Unintentional Radiators'

RESULTS:

See the attached test sheets

CONCLUSIONS

From the measurement data obtained, the tested sample was considered
to have **COMPLIED** with the requirements for the relevant clauses of
Federal Communications Commission Rules as specified above.



Authorized Signature

Remark: Purpose of those tests in this report is to provide the applicant with the necessary test data of their device for the submission to FCC with application for Equipment Authorization under the FCC Equipment Authorization Program. The tests themselves are not Approval Tests



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Summary of Test Results

Interference Radiation:

Test result: O.K.
Test data: See attached data sheet

Interference Voltage:

Test result: O.K.
Test data: See attached data sheet



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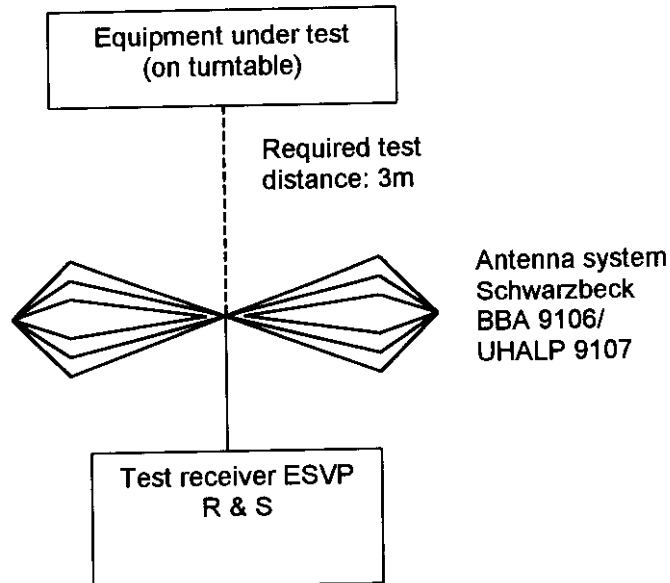
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Date: 1998-06-24

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TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial Number	Remark
Test Receiver	Rohde & Schwarz	ESH 3	863497/015	10KHz – 30MHz
Test Receiver	Rohde & Schwarz	ESVP	860688/022	25MHz – 1,300 MHz
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127	--	2 x 10A, 50Ω, 50μH 10KHz-30MHz
Antenna System	Schwarzbeck	BBA 9106 / UHALP 9107	--	30MHz – 1000MHz
Antenna Mast System	Schwarzbeck	AM9104	--	Max. 4 meters height
Spectrum Analyzer with Q. Peak	Tektronix	2712	B023006	9KHz – 1.8GHz
Interface for Spectrum 2712	Tektronix	TD3F14A	--	
Test Receiver	Rohde & Schwarz	ESH 3	892580/006	10KHz – 30MHz
Test Receiver	Rohde & Schwarz	ESVP	863512/012	25MHz – 1,300 MHz
Impulse Limiter	Rohde & Schwarz	ESH-3-Z2	--	
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127	--	2 x 10A, 50Ω, 50μH 10KHz-30MHz
Antenna System	Schwarzbeck	BBA 9106 / UHALP 9107	--	30MHz – 1000MHz
Signal Generator	Rohde & Schwarz	SWS 2	879113/42	100KHz – 1040 MHz
Digital Multimeter	Tektronix	DM2510G	DM-2510GTW10555	10KHz – 30MHz
Turntable with Controller	Drehtisch	DT312	--	φ120 cm

Radiated Emission Test procedure



Unintentional Radiators

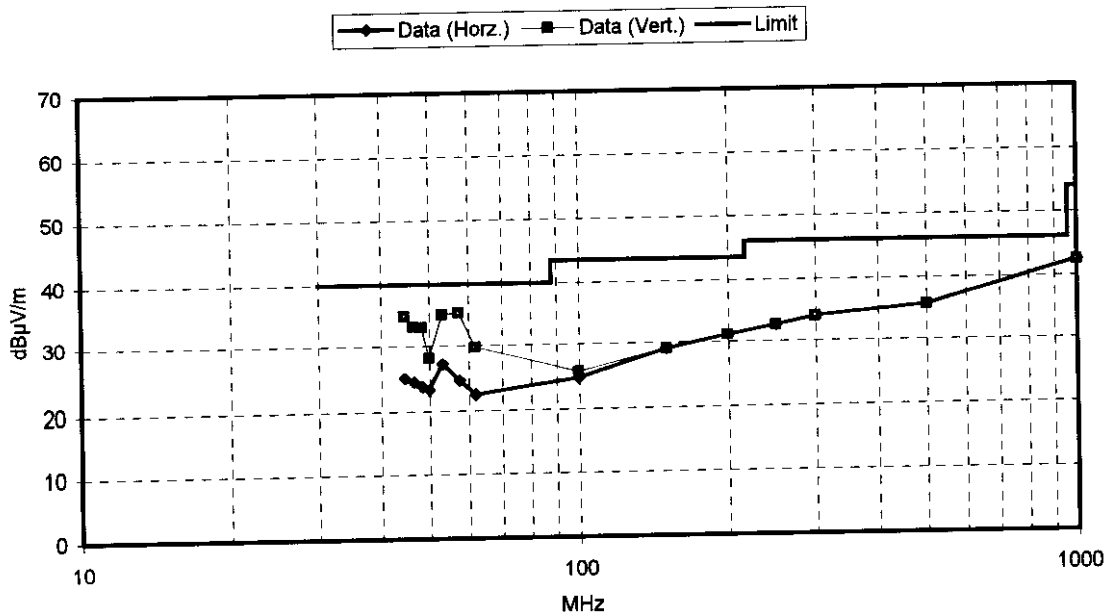
International Electrical Certification Centre Ltd.

Measurement of Radiated Emissions (30MHz-1000MHz)
Acc: FCC Part 15 Subpart B

IECC Ref: 15778/8/400F
Model: 9900
Applicant: ARTIN INDUSTRIAL CO LTD
Ser.Nr.: 1
Set under test: R/C Road Race Set
Connected sets: -
Operating mode: Power "On" (Receiver)

Test Equipment
Receiver: ESVP Rohde & Schwarz
Antenna: Schwarzbeck BBA 9106
and UHALP 9107

Frequency (MHz)	Horz. Reading dB(μV)	Vert. Reading dB(μV)	Antenna Factor (dB)	Horiz. Test Result (μV/m)	Vert. Test Result (μV/m)	Limit (μV/m)
44.48	< 16	26	8.8	< 17.4	55.2	100.0
46.44	< 16	25	8.2	< 16.1	45.5	100.0
48.28	< 16	25.5	7.5	< 15.0	44.9	100.0
49.86	< 16	21	7.0	< 14.2	25.2	100.0
53.02	20.5	28.5	6.5	22.4	56.3	100.0
57.36	18.5	29.5	5.9	16.5	58.7	100.0
61.76	17	24.5	5.2	12.9	30.6	100.0
99.72	< 16	17	8.5	< 16.9	18.9	150.0
150	< 16	< 16	13.0	< 28.2	< 28.2	150.0
199.44	< 16	< 16	15.1	< 35.8	< 35.8	150.0
249.3	< 16	< 16	16.7	< 43.1	< 43.1	200.0
299.16	< 16	< 16	18.0	< 50.0	< 50.0	200.0
300	< 16	< 16	18.0	< 50.1	< 50.1	200.0
500	< 16	< 16	19.7	< 61.0	< 61.0	200.0
1000	< 16	< 16	26.5	< 133.4	< 133.4	500.0



Date: 23 JUN 1998

☑ O.K.

Operator: *ce*



Notes for Radiation Measurement

1. Measurement facility:

Measurement facility located at Fanling (Hong Kong), placed on file 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:

Rohde & Schwarz ESVP Test Receiver (20 - 1300 MHz) with a CISPR weighting QP detector, 6 dB bandwidth set at 120 KHz.

4. Measuring antenna:

Broad-band antenna for the frequency range 30 - 300 MHz and frequency range 300 - 1000 MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable included in the Antenna Factor for measurement data. The antennas are capable of measuring both horizontal and vertical polarizations.

5. Frequency range scanned:

The frequency range 30 - 1000 MHz has been scanned. 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 sections of the American National Standards Institute (ANSI) C63.4-1992 'Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9KHz to 40GHz'.



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International Electrical Certification Centre Ltd.

Interf. Voltage 450 KHz - 25 MHz

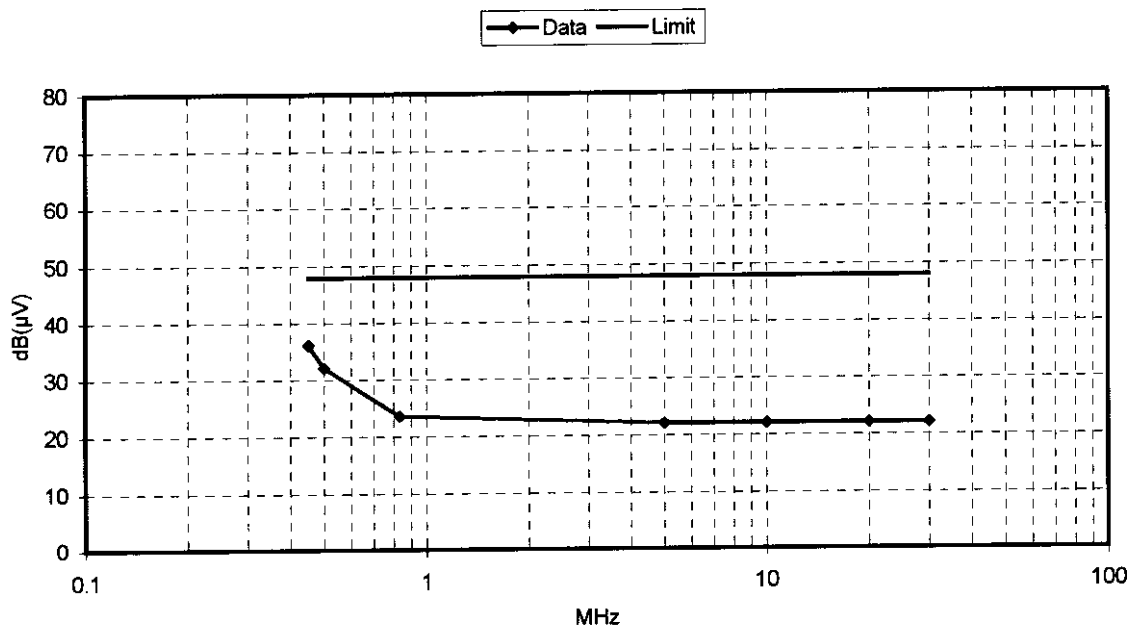
Acc: FCC Part 15 Subpart B

IECC Ref: 15778/8/400F
Model: 9900
Applicant: ARTIN INDUSTRIAL CO LTD

Test Equipment
Receiver: Rohde & Schwarz ESH 3
Schwarzbeck NNLA 8119

Ser.Nr.: 1
Set under test: R/C Road Race Set
Connected sets: -
Operating mode: Power "On" (Receiver)

Frequency (MHz)	Reading dB(μ V)	Test Result dB(μ V)	Limit dB(μ V)
0.45	36	36	48
0.5	32	32	48
0.83	23.5	23.5	48
5	< 22	< 22	48
10	< 22	< 22	48
20	< 22	< 22	48
30	< 22	< 22	48



23 JUN 1998

Date: _____

☒ O.K.

☐ Not O.K.

Operator: *le*



Notes for Voltage Measurement

1. LISN (Line Impedance Stabilization Network) used:

LISN in accordance with IEEE Standard 213.

2. Measuring instrumentations:

Rohde & Schwarz ESH3 Test Receiver (9 KHz - 30 MHz) with a CISPR weighting QP detector, 6 dB bandwidth set at 10 KHz.

3. Frequency range scanned:

The frequency range 450 KHz - 30 MHz has been scanned. Readings of the highest emissions relating to the limit were reported as above.

4. Setup of EUT:

Connection of equipment and operation conditions are the same as those in the Radiation measurement.

5. Measuring Procedure:

In accordance with the relevant sections of the American National Standards Institute (ANSI) C63.4-1992 'Methods of **Measurement** of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9KHz to 40GHz'