CMA Testing and Certification Laboratories
廠商會檢定中心

TEST REPORT

Report No. : AE001529-1 Date : 2004 February 17

Client : Evenflo Company Inc.
707 Crossroads Court,
Vandalia, OHIO 45377, U.S.A.

Sample Description : One(1) submitted sample stated to be Nursery Monitor of Model No. 6461100, 6461150 and 6461200.
Brand Name : Whisper Connect
Rating : DC 9 V and 4.8 V Ni-Cd rechargeable battery pack
Testing Voltage : AC 120 V and DC 4.8 V
No. of sample(s) : Two(2) sets ***

Date Received : 2004 February 05.

Test Period : 2004 February 05 – 2004 February 17.

Test Requested : FCC Part 15 Certification

Test Method : FCC Rules and Regulations Part 15 – May 2002
ANSI C63.4 – 1992

Test Result : See attached sheet(s) from page 2 to 11.

Conclusion : The submitted sample was found to comply with requirement of FCC Part 15 Subpart B.

Remark : Class II permissible change or modification of presently authorized equipment, from CMA Report AD019689-2 issued on 2003 November 21.

All three models are the same in circuitry and components; and therefore model 6461100 was chosen to be the representative of the test sample.

For and on behalf of
CMA Testing and Certification Laboratories

Authorized Signature : _____

Danny Chui
EMC Engineer - EL. Division

FCC ID : EHK049646REVENFLO

Room 1401-3, Yan Hing Centre, 9-13 Wong Chuk Yeung St., Fo Tan, Shatin, Hong Kong.
Tel: (852) 2698 8198 Fax: (852) 2695 4177 E-mail: info@cmatcl.com **Web Site:** http://www.cmatcl.com

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TEST REPORT

Report No. : AE001529-1 Date : 2004 February 17

Table of Contents

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TEST REPORT

Report No. : AE001529-1 Date : 2004 February 17

1 General Information

1.1 General Description

The equipment under test (EUT) is a receiver for Nursery Monitor operating at 49.390 or 49.435 MHz which is controlled by a crystal. The EUT is powered by an AC 120 V to DC 9 V adaptor or 4.8 V Ni-Cd rechargeable battery pack. There are speaker and channel selector in front of the EUT. When channel A (49.390 MHz) or channel B (49.435 MHz) is selected, it will receive a radio voice signal from the transmitter and amplify it to the speaker.

The brief circuit description is saved with filename : OpDes.pdf

The models 6461150 and 6461200 are the same as model 6461100 in hardware aspect. The difference in model numbers serves as marketing strategy.

1.2 Related Submittal Grants

This is a single application for certification of a receiver. The transmitter for this receiver is authorized by Certification procedure.

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TEST REPORT

Report No. : AE001529-1 Date : 2004 February 17

1.3 Location of the test site

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 1992. An Open Area Testing Site is set up for investigation and located at :

Top of the Roof, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 1992. A double shielded room is located at :

Roof Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

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TEST REPORT

Report No. : AE001529-1 Date : 2004 February 17

1.4 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Certification No.
EMI Test Receiver	R&S	ESCS30	100001	S21141
Broadband Antenna	Schaffner	CBL6113B	2718	AC1753
Signal Generator	IFR	2023B	202302/938	Nil
LISN	R&S	ESH3-Z5	100038	S21142
LISN	R&S	ESH3-Z5	100010	20-70405
Pulse Limiter	R&S	ESH3-Z2	100001	20-73194
Biconical Antenna	R&S	HK116	837414/004	4000.7752.02

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TEST REPORT

Report No. : AE001529-1 Date : 2004 February 17

2 Description of the radiated emission test

2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 1992.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

The device was rotated through three orthogonal axes to determine which attitude and configuration produce the highest emission during measurement.

2.2 Test Result

The emissions meeting the requirement of section 15.109 are based on measurements employing the CISPR qusai-peak detector.

It was found that the EUT meet the FCC requirement.

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TEST REPORT

Report No. : AE001529-1 Date : 2004 February 17

2.3 Radiated Emission Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15

Mode : 49 MHz Rx Ch. A

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBμV/m)	Antenna and Cable factor (dB)	Field Strength (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
49.390	V	16.3	11.4	27.7	40.0	-12.3
98.780	H	12.0	10.0	22.0	43.5	-21.5
148.170	H	10.1	12.2	22.3	43.5	-21.2
197.560	H	12.1	10.5	22.6	43.5	-20.9
246.950	H	12.2	10.7	22.9	46.0	-23.1
296.340	H	9.2	13.9	23.1	46.0	-22.9
345.730	H	8.0	15.3	23.3	46.0	-22.7
395.120	H	8.2	15.3	23.5	46.0	-22.5
444.510	H	5.0	18.6	23.6	46.0	-22.4
493.390	H	5.2	18.6	23.8	46.0	-22.2

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TEST REPORT

Report No. : AE001529-1 Date : 2004 February 17

2.3 Radiated Emission Measurement Data

Radiated emission

pursuant to

the requirement of FCC Part 15

Mode : 49 MHz Rx Ch. B

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dBμV/m)	Antenna and Cable factor (dB)	Field Strength (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
49.435	V	14.2	11.4	25.6	40.0	-14.4
98.870	H	11.8	10.0	21.8	43.5	-21.7
148.305	H	9.7	12.2	21.9	43.5	-21.6
197.740	H	11.7	10.5	22.2	43.5	-21.3
247.175	H	12.0	10.7	22.7	46.0	-23.3
296.610	H	9.1	13.9	23.0	46.0	-23.0
346.045	H	7.9	15.3	23.2	46.0	-22.8
395.480	H	8.1	15.3	23.4	46.0	-22.6
444.915	H	4.9	18.6	23.5	46.0	-22.5
494.350	H	5.0	18.6	23.6	46.0	-22.4

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TEST REPORT

Report No. : AE001529-1 Date : 2004 February 17

3 Description of the Line-conducted Test

3.1 Test Procedure

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 1992. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

The operation and charging mode had been tested. The measurement data was indicated in next page.

3.3 Graph and Table of Conducted Emission Measurement Data

For electronic filing, the document are saved with filename TestRpt2.pdf

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TEST REPORT

Report No. : AE001529-1 Date : 2004 February 17

4 Photograph

4.1 Photographs of the Test Setup for Radiated Emission and Conduction Emission

For electronic filing, the photos are saved with filename TSup1.jpg to TSup5.jpg

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename ExPho1.jpg to ExPho4.jpg and InPho1.jpg to InPho2.jpg.

5 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

Document	Filename
ID Label/Location	LabelSmpl.pdf
Block Diagram	BlkDia.pdf
Schematic Diagram	Schem.pdf
Users Manual	UserMan.pdf
Operational Description	OpDes.pdf

5.1 Bandwidth

N.A.

TEST REPORT

Report No. : AE001529-1 Date : 2004 February 17

6 Appendices

A1.	Photos of the set-up of Radiated Emissions	1 page
A2.	Photos of the set-up of Conducted Emissions	2 pages
A3.	Photos of External Configurations	2 pages
A4.	Photos of Internal Configurations	1 page
A5.	ID Label/Location	1 page
A6.	Conducted Emission Test Result	4 pages
A7.	Block Diagram	1 page
A8.	Schematics	2 pages
A9.	User Manual	11 pages
A10.	Operation Description	2 pages
A11.	Permissive Change Letter	1 page

***** End of Report *****

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