



TEST REPORT

Report No. : AD019689-1

Date : 2003 November 21

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
Testing Voltage : AC 120 V
No. of sample(s) : Two(2) sets ***

Date Received : 2003 November 03.

Test Period : 2003 November 03 – 2003 November 21.

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 C.

Remark : 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

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1 General Information

1.1 General Description

The equipment under test (EUT) is a transmitter for Nursery Monitor operating at 49.845 or 49.890 MHz which is controlled by a crystal. The EUT is powered by an AC 120 V to DC 9 V adaptor. There are a microphone and a channel selector in front of the EUT. When channel A (49.845 MHz) or channel B (49.890 MHz) is selected, it will transmit a radio voice signal to receiver.

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 transmitter. The receiver for this transmitter is authorized by Certification procedure.



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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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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
Pulse Limiter	R&S	ESH3-Z2	100001	20-73194
Biconical Antenna	R&S	HK116	837414/004	4000.7752.02



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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

Peak Detector data was measured unless otherwise stated.

* Emissions appearing within the restricted bands shall follow the requirement of section 15.205.

It was found that the EUT meet the FCC requirement.



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2.3 Radiated Emission Measurement Data

**Radiated emission
pursuant to
the requirement of FCC Part 15**

Mode : 49 MHz Tx 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)
49.844	V	64.6	11.4	76.0	80.0	-4.0
99.687	H	13.1	10.0	23.1	43.5	-20.4
149.532	H	11.0	12.2	23.2	43.5	-20.3
199.376	H	13.0	10.5	23.5	43.5	-20.0
*249.219	H	13.1	10.7	23.8	46.0	-22.2
299.064	H	10.3	13.9	24.2	46.0	-21.8
348.907	H	7.7	15.3	23.0	46.0	-23.0
398.752	H	16.7	15.3	32.0	46.0	-14.0
448.595	H	5.2	18.6	23.8	46.0	-22.2
498.439	H	5.4	18.6	24.0	46.0	-22.0



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2.3 Radiated Emission Measurement Data

**Radiated emission
pursuant to
the requirement of FCC Part 15**

Mode : 49 MHz Tx 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)
49.890	V	64.4	11.4	75.8	80.0	-4.2
99.778	H	13.4	10.0	23.4	43.5	-20.1
149.668	H	11.3	12.2	23.5	43.5	-20.0
199.558	H	13.3	10.5	23.8	43.5	-19.7
*249.448	H	13.3	10.7	24.0	46.0	-22.0
299.338	H	9.2	13.9	23.1	46.0	-22.9
349.228	H	7.7	15.3	23.0	46.0	-23.0
399.118	H	15.8	15.3	31.1	46.0	-14.9
449.008	H	5.1	18.6	23.7	46.0	-22.3
498.898	H	5.4	18.6	24.0	46.0	-22.0

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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 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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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

The plot on saved in TestRpt3.pdf shows the fundamental emission is confined in the specified band. The field strength of any emission appearing between the band edges and up to 10 kHz above and below the band edges (49.81 and 49.91 MHz) is at least 26 dB below the carrier level. It meets the requirement of Section 15.235(b).



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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	2 pages
A7.	Bandwidth Plot	3 pages
A8.	Block Diagram	1 page
A9.	Schematics	1 page
A10.	User Manual	11 pages
A11.	Operation Description	2 pages

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