



ADDENDUM TO TEST REPORT FC00-085

FOR THE

CONTAINMENT TRANSMITTER, M021000

**FCC PART 15 SUBPART C
SECTIONS 15.207 & 15.209**

COMPLIANCE

DATE OF ISSUE: SEPTEMBER 29, 2000

PREPARED FOR:

Innotek Pet Products
One Innoway
Garrett, IN 46738

W.O. No: 75021

Report No: FC00-085A

DOCUMENTATION CONTROL:

Tracy Phillips
Documentation Control Supervisor
CKC Laboratories, Inc.

PREPARED BY:

Joyce Walker
CKC Laboratories, Inc.
5473A Clouds Rest
Mariposa, CA 95338

Date of test: August 26, 2000

APPROVED BY:

Dennis Ward
Director of Laboratories
CKC Laboratories, Inc.

This report contains a total of 8 pages and may be reproduced in full only. Partial reproduction may only be done with the written consent of CKC Laboratories, Inc.

TABLE OF CONTENTS

Administrative Information	3
Summary Of Results.....	4
Equipment Under Test (EUT) Description.....	4
Measurement Uncertainty.....	4
Peripheral Devices	4
Report Of Measurements.....	5
Table 1: Fundamental Emission Level	5
Table 2: Six Highest Spurious Radiated Emission Levels - 9 kHz - 30 MHz.....	6
Test Data Sheets	7

CKC Laboratories, Inc. has Certificates of Accreditation from the following agencies:
DATEch (Germany); A2LA (USA); FCC (USA); VCCI (Japan); BSMI (Taiwan); HOKLAS (Hong Kong).
CKC Laboratories, Inc. has Letters of Acceptance through an MRA for the following agencies:
ACA/NATA (Australia); SABS (South Africa); SWEDAC (Sweden); TUV Rheinland-Germany; TUV Rheinland-Korea; TUV Rheinland-Russia; Radio Communications Agency (RA); NEMKO (Norway).

ADMINISTRATIVE INFORMATION

DATE OF TEST: August 26, 2000

PURPOSE OF TEST: To demonstrate the compliance of the Containment Transmitter, M021000, with the requirements for FCC Part 15 Subpart C Sections 15.207&15.209 devices.
This addendum is to correct the spec limit on the FCC 15.209 data sheets and to add the peak readings to Table 1.

MANUFACTURER: Innotek Pet Products
One Innoway
Garrett, IN 46738

REPRESENTATIVE: Pete Johnson

TEST LOCATION: CKC Laboratories, Inc.
22105 Wilson River Hwy
Tillamook, OR 97141

TEST PERSONNEL: Mike Wilkinson

TEST METHOD: ANSI C63.4 1992

FREQUENCY RANGE TESTED: 9 kHz - 1000 MHz

EQUIPMENT UNDER TEST:

Containment Transmitter

Manuf: Innotek Pet Products
Model: M021000
Serial: 210 #1
FCC ID: KBS050210 (pending)

Direct Plug In Transformer

Manuf: Enterprise Electronics Corp.
Model: 41A-19-400
Serial: None
FCC ID: N/A

SUMMARY OF RESULTS

The Innotek Pet Products Containment Transmitter, M021000, was tested in accordance with ANSI C63.4 1992 for compliance with FCC Part 15 Subpart C Sections 15.207 & 15.209.

As received, the above equipment was found to be fully compliant with the limits of FCC Part 15 Subpart C Sections 15.207 and 15.209. The results in this report apply only to the items tested, as identified herein.

EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The units transmit a coded signal used by a receiving unit (normally worn by a dog) to determine position relative to the transmitting antenna.

MEASUREMENT UNCERTAINTY

Associated with data in this report is a ± 4 dB measurement uncertainty.

PERIPHERAL DEVICES

The EUT was not tested with peripheral devices.

REPORT OF MEASUREMENTS

The following tables report the six highest worst case levels recorded during the tests performed on the Containment Transmitter, M021000. All readings taken are peak readings unless otherwise noted by a “Q” or “A”.

Table 1: Fundamental Emission Level									
FREQUENCY	METER READING	CORRECTION FACTORS				CORRECTED READING	SPEC LIMIT	MARGIN	NOTES
		Mag L	Ave F	Cable	Dist				
MHz	dBμV	dB	dB	dB	dB	dBμV/m	dBμV/m	dB	
13.442k	80.7	+16.2	11.0	+0.5		86.4	105.0	-18.6	NA
13.455k	80.7	+16.2	+0.0	+0.5		97.4	105.0	-7.6	NQ

Test Method: ANSI C63.4 1992
 Spec Limit: FCC 15.209
 Test Distance: 10 Meters

N = No Polarization, Magnetic Loop Antenna Used
 A = Average Reading
 Q = Quasi Peak Reading

COMMENTS: EUT is turned on and transmitting continuously with the Field Width adjustment at maximum and internal jumper to large (maximum). A 200 foot 14 gage solid copper wire antenna was connected to the EUT. The antenna was arranged in a circle. The EUT and antenna measurement site was a flat field with short grass approximately 200 x 150 feet with no structures, underground cable or pipes. The temperature was 73°F and the humidity was 50%. AC input to Direct Plug In Transformer was 120V, 60 Hz. Frequency range investigated was 9 kHz to 30 MHz-11 dB correction factor used on the Transmitter Fundamental reading was derived from the measured 26% duty cycle over 100 msec. pulsed operation (20Log 0.26= 11dB).

Table 2: Six Highest Spurious Radiated Emission Levels - 9 kHz - 30 MHz

FREQUENCY MHz	METER READING dBμV	CORRECTION FACTORS				CORRECTED READING dBμV/m	SPEC LIMIT dBμV/m	MARGIN dB	NOTES
		Mag L dB	Amp- A dB	Cable dB	Dist dB				
0.041	76.5	11.3		0.5		88.3	95.4	-7.1	N
0.054	72.1	10.6		0.5		83.2	92.9	-9.7	N
0.081	69.3	10.3		0.5		80.1	89.4	-9.3	N
0.108	66.7	10.1		0.5		77.3	86.9	-9.6	N
2.124	29.7	10.6		0.5		40.8	49.5	-8.7	N
2.273	28.8	10.6		0.5		39.9	49.5	-9.6	N

Test Method: ANSI C63.4 1992
 Spec Limit: FCC 15.209
 Test Distance: 10 Meters

N = No Polarization, Magnetic Loop Antenna Used

COMMENTS: EUT is turned on and transmitting continuously with the Field Width adjustment at maximum and internal jumper to large (maximum). A 200 foot 14 gage solid copper wire antenna was connected to the EUT. The antenna was arranged in a circle. The EUT and antenna measurement site was a flat field with short grass approximately 200 x 150 feet with no structures, underground cable or pipes. The temperature was 73°F and the humidity was 50%. AC input to Direct Plug In Transformer was 120V, 60 Hz. Frequency range investigated was 9 kHz to 30 MHz-11 dB correction factor used on the Transmitter Fundamental reading was derived from the measured 26% duty cycle over 100 msec. pulsed operation (20Log 0.26= 11dB).

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 22105 Wilson River Hwy • Tillamook, OR 97141 • 800 500-4EMC

Customer: **Innotek Pet Products**
 Specification: **FCC15.209**
 Work Order #: **75021** Date: 08/24/2000
 Test Type: **Maximized Emissions** Time: 13:59:33
 Equipment: **Pet Containment Transmitter** Sequence#: 4
 Manufacturer: Innotek Pet Products Tested By: Mike Wilkinson
 Model: M021000
 S/N: 210 #1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Pet Containment Transmitter*	Innotek Pet Products	M021000	210 #1
Direct Plug In Transformer	Enterprise Electronics Corp.	41A-19-400	None

Support Devices:

Function	Manufacturer	Model #	S/N
----------	--------------	---------	-----

Test Conditions / Notes:

EUT is turned on and transmitting continuously with the Field Width adjustment at maximum and internal jumper to large (maximum). A 200 foot 14 gage solid copper wire antenna was connected to the EUT. The antenna was arranged in a circle. The EUT and antenna measurement site was a flat field with short grass approximately 200 x 150 feet with no structures, underground cable or pipes. The temperature was 73° F. and the humidity was 50 % AC input to Direct Plug In Transformer was 120V, 60 Hz. Frequency range investigated was 9 kHz to 30 MHz -11 dB correction factor used on the Transmitter Fundamental reading was derived from the measured 26% duty cycle over 100 msec. pulsed operation (20Log 0.26= 11dB).

Measurement Data: Reading listed by margin. Test Distance: 10 Meters

#	Freq MHz	Rdng dBµV	Reading listed by margin.			Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
			Cbl-2 dB	Mag L dB	Ave F dB					
1	40.720k	76.5	+0.5	+11.3	+0.0	+0.0	88.3	95.4	-7.1	None
2	2.124M	29.7	+0.5	+10.6	+0.0	+0.0	40.8	49.5	-8.7	None
3	81.340k	69.3	+0.5	+10.3	+0.0	+0.0	80.1	89.4	-9.3	None
4	2.273M	28.8	+0.5	+10.6	+0.0	+0.0	39.9	49.5	-9.6	None
5	108.210k	66.7	+0.5	+10.1	+0.0	+0.0	77.3	86.9	-9.6	None
6	54.040k	72.1	+0.5	+10.6	+0.0	+0.0	83.2	92.9	-9.7	None
7	2.057M	28.5	+0.5	+10.6	+0.0	+0.0	39.6	49.5	-9.9	None
8	4.432M	27.0	+0.5	+10.6	+0.0	+0.0	38.1	49.5	-11.4	None
9	24.210k	75.2	+0.5	+12.8	+0.0	+0.0	88.5	99.9	-11.4	None
10	365.430k	53.9	+0.5	+10.1	+0.0	+0.0	64.5	76.3	-11.8	None

11	27.090k	74.1	+0.5	+12.4	+0.0	+0.0	87.0	98.9	-11.9	None
12	378.600k	52.9	+0.5	+10.1	+0.0	+0.0	63.5	76.0	-12.5	None
13	106.500k	62.9	+0.5	+10.1	+0.0	+0.0	73.5	87.0	-13.5	None
14	32.410k	70.5	+0.5	+11.9	+0.0	+0.0	82.9	97.4	-14.5	None
15	175.980k	56.5	+0.5	+10.0	+0.0	+0.0	67.0	82.7	-15.7	None
16	16.310k	72.0	+0.5	+14.8	+0.0	+0.0	87.3	103.3	-16.0	None
17	432.740k	48.0	+0.5	+10.1	+0.0	+0.0	58.6	74.9	-16.3	None
18	13.442k Ave	80.7	+0.5	+16.2	-11.0	+0.0	86.4	105.0 Transmitter Fundamental	-18.6	None
^	13.455k	80.7	+0.5	+16.2	+0.0	+0.0	97.4	105.0 Transmitter Fundamental	-7.6	None
20	160.930k	53.6	+0.5	+10.0	+0.0	+0.0	64.1	83.5	-19.4	None