



**FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 7
CLASS II PERMISSIVE CHANGE**

TEST REPORT

FOR

MICROWAVE/PIR MOTION SENSOR

MODEL NUMBER: DT-906 and DT-907*

FCC ID: C2DBG200KKDM

IC: 573H-0102562

REPORT NUMBER: 08U12122-1, Revision B

ISSUE DATE: OCTOBER 29, 2008

Prepared for
**HONEYWELL INTERNATIONAL
625 COOLIDGE DRIVE, SUITE 150
FOLSOM, CA 95630, U.S.A.**

Prepared by
**COMPLIANCE CERTIFICATION SERVICES
47173 BENICIA STREET
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*Details of models differences are contained in the body of this test report.



NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	10/08/08	Initial Issue	F. Ibrahim
A	10/10/08	Corrected model number	T.Chu
B	10/27/08	Updated FCC ID number and IC Number, and added Class II Permissive Change title and description	A. Zaffar

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: HONEYWELL INTERNATIONAL
625 COOLIDGE DRIVE, SUITE 150
FOLSOM, CA 95630, U.S.A.

EUT DESCRIPTION: MICROWAVE/PIR MOTION SENSOR

MODEL: DT-906

SERIAL NUMBER: 02211

DATE TESTED: October 1-7, 2008

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Pass
INDUSTRY CANADA RSS-210 Issue 7, Annex 2	Pass
INDUSTRY CANADA RSS-GEN Issue 2	Pass

Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by CCS based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by CCS will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:

Tested By:



FRANK IBRAHIM
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

CAN CHUNG
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 2, and RSS-210 Issue 7.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Power Line Conducted Emission	+/- 2.3 dB
Radiated Emission	+/- 3.4 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a Microwave / PIR Motion Sensor that operates at 10525 MHz; and it is manufactured by Honeywell International.

5.2. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

To improve the performance of the DT-906 and DT-907 microwave source, the output filter section is being altered. The original configuration consists of a harmonic filter and a mode suppressor. The filter on the new configuration consists of a mode suppressor, a harmonic filter, a spacer, another harmonic filter and another mode suppressor.

5.3. DESCRIPTION OF MODEL(S) DIFFERENCE

The DT-906 and DT-907 are identical products in all respects except for an additional PCBA which provides the "Anti-mask" feature on the DT-906, i.e. both the DT-906 and the DT-907 use the identical microwave source, antenna horn, mounting, etc. As the additional PCBA is included on the DT-906, which is the unit that was tested, i.e., it is the worst-case for emission characteristics of the products.

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna was designed as an integral part of the microwave source, and as such, has no specification of its own.

5.5. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak EIRP output power @ 3m distance as follows:

Frequency (GHz)	Mode	Output Power (dBuV/m)
10.525	Normal	118.20

5.6. WORST-CASE CONFIGURATION

The worst-case position of the EUT was determined as that which produced the highest output power. After investigation of the three orthogonal positions, the X Position was found to be the worst-case, so all emissions tests were done with the EUT in the X orientation.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
DC Power Supply	Universal Battery	UB1245	2361208N	N/A
DC Power Supply	Heald Institute of Technology	Deluxe Regulated PS	N016343	

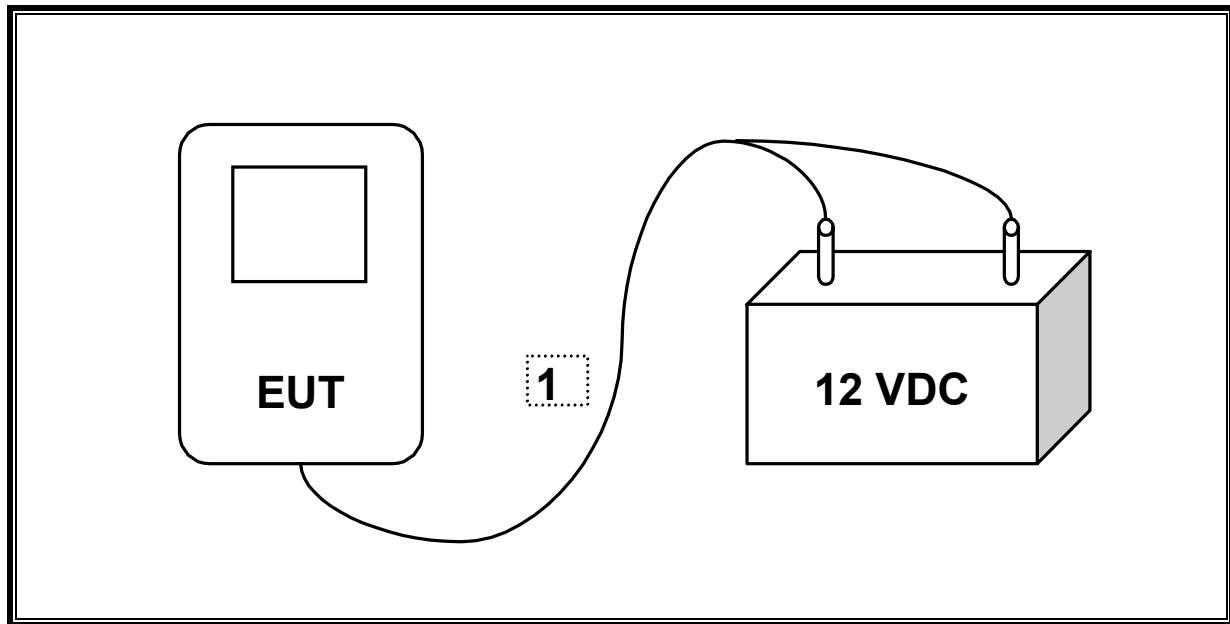
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC	1	DC Terminal	Un-Shielded	1.5m	N/A

TEST SETUP

The EUT was set up to work in both Tx and Rx modes simultaneously.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	Asset	Cal Date	Cal Due
RF Filter Section	HP	85420E	3705A00256	06/19/09	09/19/09
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	10/25/07	10/25/08
EMI Test Receiver	R & S	ESHS 20	827129/006	02/06/08	08/06/09
EMI Receiver, 9 kHz ~ 2.9 GHz	HP	8542E	3942A00286	06/19/09	09/19/09
Spectrum Analyzer 3 Hz ~ 44 GHz	Agilent	E4446A	US42510266	10/26/07	10/26/08
Preamp, 1000MHz	Sonoma	310N	185623	03/31/08	03/31/09
Preamplifier, 26.5 GHz	Agilent / HP	8449B	3008A00561	09/27/07	11/27/09
PreAmplifier 26-40 GHz	Miteq	NSP4000-SP2	924343	10/11/07	10/11/08
Antenna, Bilog 30MHz ~ 2Ghz	Sunol Sciences	JB1	A0022704	09/28/07	09/28/08
Antenna, Horn, 18 GHz	EMCO	3115	6717	04/22/08	04/22/09
Antenna, Horn 18 ~ 26 GHz	ARA	SWH-28	1007	10/06/07	10/06/08
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	1013	09/29/07	11/29/08
Antenna, Horn 33 ~ 50 GHz	ATM	(0R8N4) 22-442-6	Lot#7046005	CNR	CNR
Antenna, Horn 50 ~ 75 GHz	ATM	15-442-6	Lot#7046105	CNR	CNR

7. TEST RESULTS

7.1. DUTY CYCLE

LIMITS

None; for reporting purposes only.

RESULTS

Tx on (usec)	Tx on + Tx off (usec)	Duty Cycle (%)	Correction Factor (dB)
13.33	335	3.98	-28.00

7.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

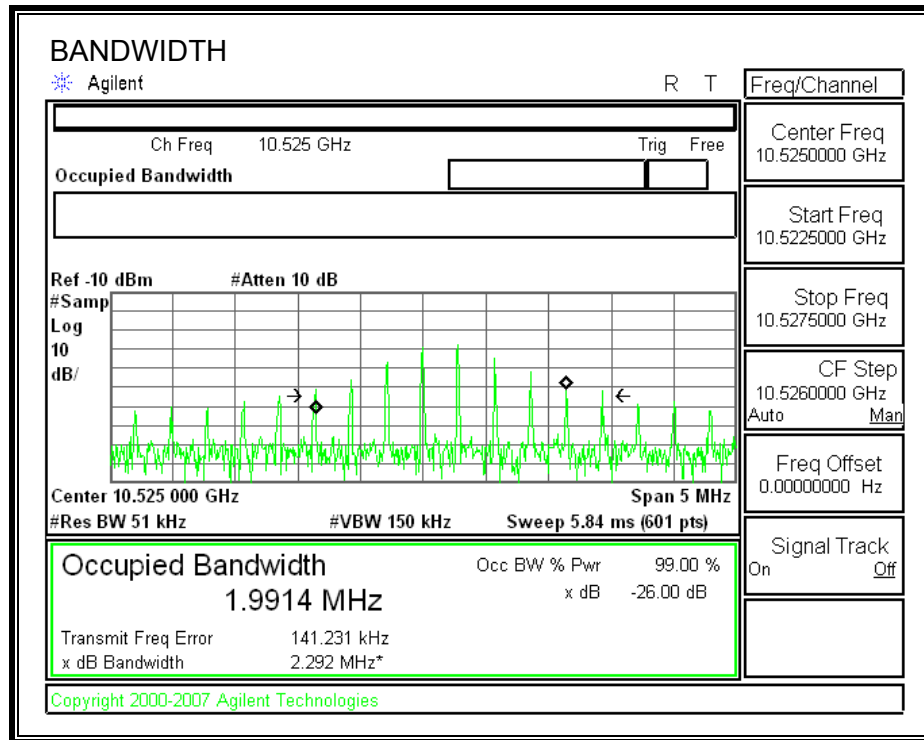
TEST PROCEDURE

The transmitter outputs are connected to the spectrum analyzer via a combiner. The RBW is set to 1% to 3% of the measured bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal bandwidth function is utilized.

RESULTS

Frequency (GHz)	99% Bandwidth (MHz)
10.525	1.9914

99% BANDWIDTH



7.3. RADIATED EMISSION

LIMIT

§15.245

IC RSS-210, Section 2.6 (Transmitter), Annex 7

IC RSS-GEN, Section 6 (Receiver)

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Limits for radiated disturbance of an intentional radiator		
Fundamental Frequency (MHz)	Field Strength of fundamental (millivolts / meter)	Field Strength of harmonic (millivolts / meter)
902-928	500	1.6
2435-2465	500	1.6
5785-5815	500	1.6
10500-10550	2500	25
24075-24175	2500	25

TEST PROCEDURE

ANSI C63.4

The EUT is an intentional radiator that does not incorporate a digital device, the highest fundamental frequency generated or used in the device is 10.525 GHz; therefore, the frequency range was investigated from 30 MHz to the 5th harmonic of the highest fundamental frequency (52.625 GHz).

RESULTS

7.3.1. FUNDAMENTAL RADIATED EMISSION

High Frequency Measurement
Compliance Certification Services, Fremont 5m Chamber

Company: Hoenywell International
Project #: 08U112122
Date: 10/01/08
Test Engineer: Can Ming Chung
Configuration: Stand-alone EUT
Mode: Tx and Rx

Test Equipment:

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T59; S/N: 3245 @3m				FCC 15.245

Hi Frequency Cables

2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz
		A-5m Chamber			

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fldr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
X-Position															
10.525	3.0	50.0	22.0	38.6	10.6	0.0	0.0	0.0	99.2	71.2	148.0	128.0	-48.8	-56.8	V
10.525	3.0	69.0	41.0	38.6	10.6	0.0	0.0	0.0	118.2	90.2	148.0	128.0	-29.8	-37.8	H
Y-Position															
10.525	3.0	68.2	40.2	38.6	10.6	0.0	0.0	0.0	117.4	89.4	148.0	128.0	-30.6	-38.6	V
10.525	3.0	46.4	18.4	38.6	10.6	0.0	0.0	0.0	95.6	67.6	148.0	128.0	-52.4	-60.4	H
Z-Position															
10.525	3.0	54.2	26.2	38.6	10.6	0.0	0.0	0.0	103.4	75.4	148.0	128.0	-44.6	-52.6	V
10.525	3.0	46.5	18.5	38.6	10.6	0.0	0.0	0.0	95.7	67.7	148.0	128.0	-52.3	-60.3	H

Duty Cycle FC = -28 dB

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

7.3.2. TX/RX SPURIOUS RADIATED EMISSIONS ABOVE 1 GHz

High Frequency Measurement																
Compliance Certification Services, Fremont 5m Chamber																
Company: Hoenywell International																
Project #: 08U12122																
Date: 10/01/08																
Test Engineer: Can Ming Chung																
Configuration: Stand-alone EUT																
Mode: Tx and Rx																
Test Equipment:																
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit				
T59; S/N: 3245 @3m			T144 Miteq 3008A00931			T88 Miteq 26-40GHz			T89; ARA 18-26GHz; S/N:1049			RX RSS 210				
Hi Frequency Cables																
2 foot cable			3 foot cable			12 foot cable			HPF			Reject Filter			Peak Measurements RBW=VBW=1MHz	
						A5m Chamber									Average Measurements RBW=1MHz; VBW=10Hz	
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
21.052	3.0	42.6	14.6	33.4	12.5	-35.2	0.0	0.0	53.3	25.3	74.0	54.0	-20.7	-28.7	V	
21.052	3.0	43.8	15.8	33.4	12.5	-35.2	0.0	0.0	54.5	26.5	74.0	54.0	-19.5	-27.5	H	
Duty Cycle CF = -28 dB																
Note: No other signals from EUT were detected above the system noise floor																
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit							
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit							
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit							
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit							
CL	Cable Loss			HPF	High Pass Filter											

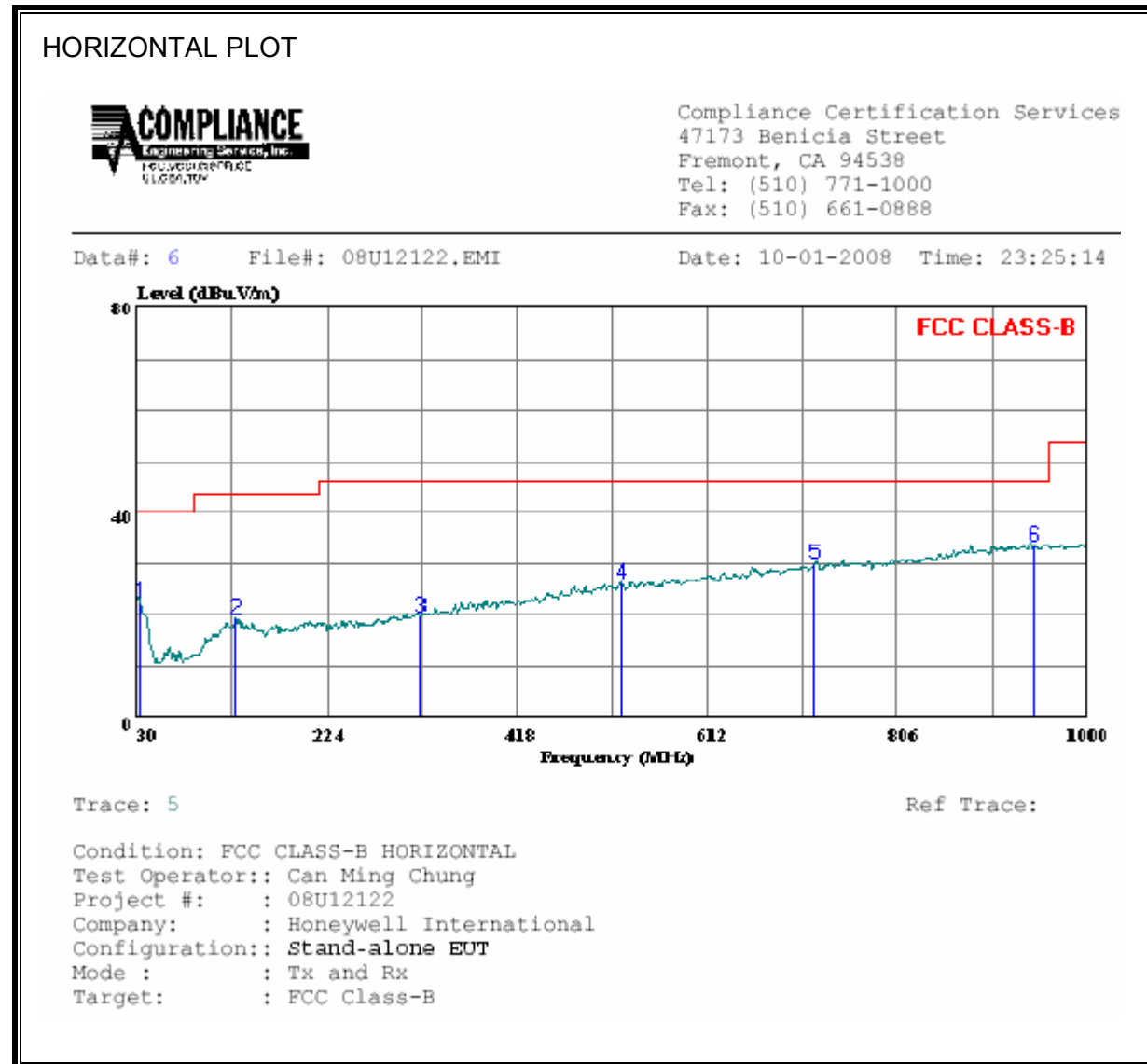
Note: the limit for RSS 210 (Rx) is tighter than the limit for FCC 15.245, and since the EUT was transmitting and receiving simultaneously this data sheet cover both FCC 15.245 and RSS 210.

Noise Floor Levels:

Specification Distance: 3 meters							
Freq GHz	SA dBuV	AF dB/m	Distance m	Distance dB	Field dBuV/m	Limit dBuV/m	Margin dB
33 to 50 GHz							
RBW = 1 MHz, peak detection							
50	39.2	44.2	0.1	-29.5	53.86	74	-20.14
RBW = 1 MHz, average detection							
50	27.2	44.2	0.1	-29.5	41.86	54	-12.14
50 to 75 GHz							
RBW = 1 MHz, peak detection							
75	39.2	47.7	0.1	-29.5	57.36	74	-16.64
RBW = 1 MHz, average detection							
75	27.2	47.7	0.1	-29.5	45.36	54	-8.64
75 to 110 GHz							
RBW = 1 MHz, peak detection							
110	39.2	51.0	0.1	-29.5	60.66	74	-13.34
RBW = 1 MHz, average detection							
110	27.2	51.0	0.1	-29.5	48.66	54	-5.34

7.3.3. TX/RX SPURIOUS RADIATED EMISSIONS BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



HORIZONTAL DATA

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	32.910	30.67	-8.30	22.37	40.00	-17.63	Peak
2	130.880	32.73	-13.38	19.35	43.50	-24.15	Peak
3	319.060	30.24	-10.49	19.75	46.00	-26.25	Peak
4	524.700	30.57	-4.32	26.25	46.00	-19.75	Peak
5	721.610	30.21	-0.19	30.02	46.00	-15.98	Peak
6	945.680	30.37	3.17	33.54	46.00	-12.46	Peak

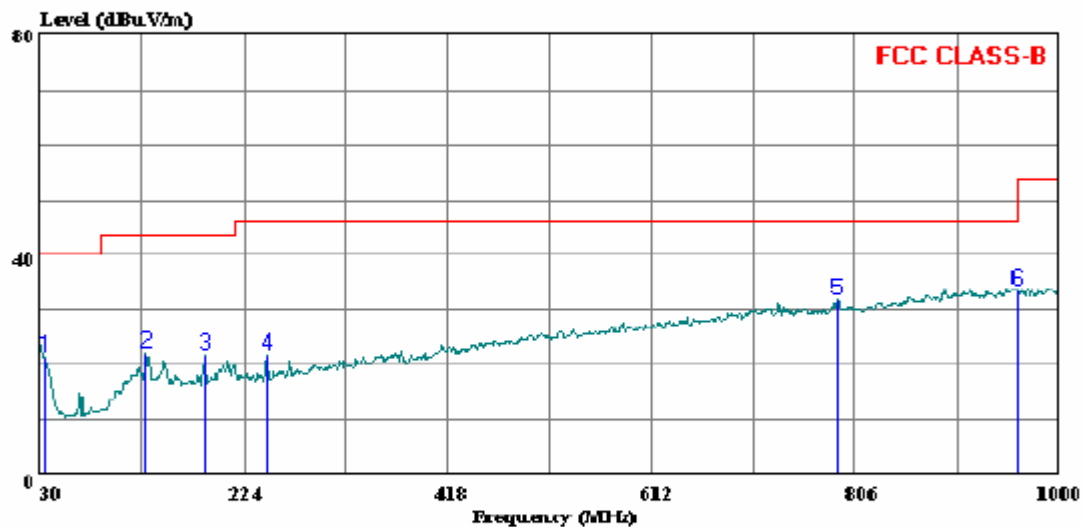
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)

VERTICAL PLOT



Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 4 File#: 08U12122.EMI Date: 10-01-2008 Time: 23:17:02



Trace: 3

Ref Trace:

Condition: FCC CLASS-B VERTICAL
Test Operator:: Can Ming Chung
Project #: : 08U12122
Company: : Honeywell International
Configuration:: Stand-alone EUT
Mode : : Tx and Rx
Target: : FCC Class-B

VERTICAL DATA

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	33.880	30.87	-9.49	21.38	40.00	-18.62	Peak
2	130.880	35.55	-13.38	22.17	43.50	-21.33	Peak
3	187.140	35.90	-13.94	21.96	43.50	-21.54	Peak
4	245.340	35.19	-13.25	21.94	46.00	-24.06	Peak
5	788.540	31.18	0.66	31.84	46.00	-14.16	Peak
6	960.230	30.22	3.40	33.62	54.00	-20.38	Peak

8. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207 (a)
IC RSS-GEN, Section 7.2.2

Frequency of emission (MHz)	Conducted Limit (dBµV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50
* Decreases with the logarithm of the frequency.		

TEST PROCEDURE

ANSI C63.4

RESULTS

6 WORST EMISSIONS

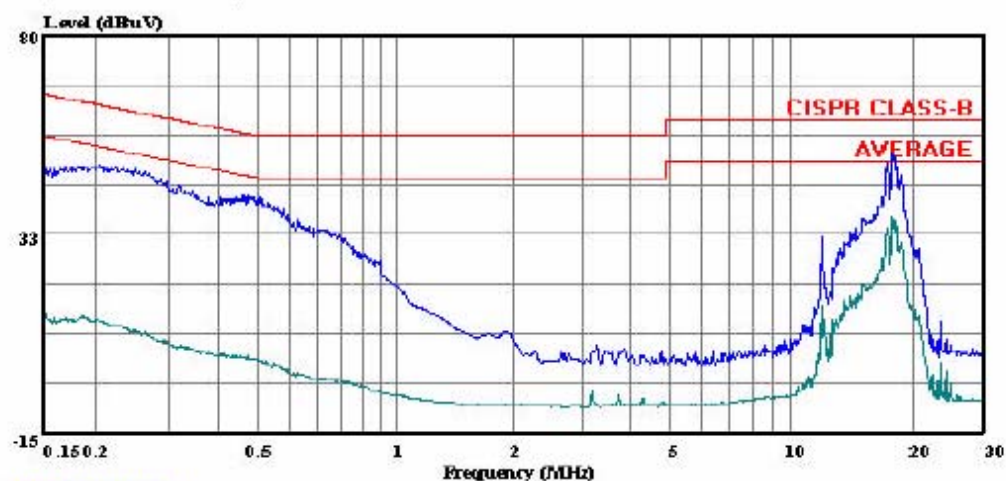
CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading			Closs	Limit	EN B	Margin		Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2
17.75	51.97	--	36.86	0.00	60.00	50.00	-8.03	-13.14	L1
0.50	41.20	--	2.22	0.00	56.00	46.00	-14.80	-43.78	L1
0.20	49.02	--	11.90	0.00	63.45	53.45	-14.43	-41.55	L1
17.85	52.63	--	37.09	0.00	60.00	50.00	-7.37	-12.91	L2
0.48	42.04	--	3.60	0.00	56.32	46.32	-14.28	-42.72	L2
0.23	50.06	--	12.73	0.00	62.52	52.52	-12.46	-39.79	L2
6 Worst Data									

LINE 1 RESULTS



Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 7 File#: 08u12122.emi Date: 10-07-2008 Time: 18:21:03



(Line Conduction)

Trace: 5

Ref Trace:

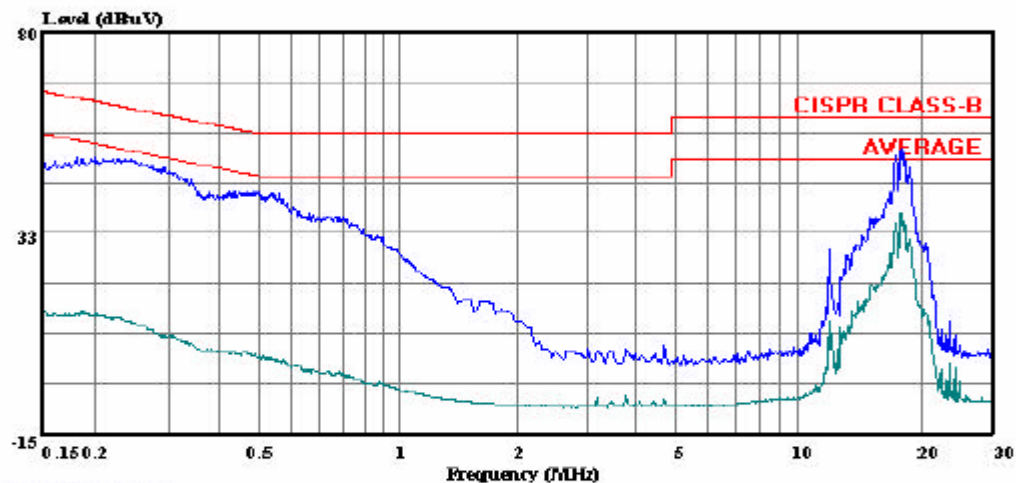
Condition: CISPR CLASS-B
Test Operator:: Monica Harrison
Project #: : 08U12122
Company: : Honeywell
Configuration:: BUT, Power Supply
Mode: : Normal
Target: : FCC Class B
Voltage: : 115VAC / 60Hz
: L1: Peak (Blue); Average (Green)

LINE 2 RESULTS



Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 14 File#: 08u12122.emi Date: 10-07-2008 Time: 18:48:14



(Line Conduction)

Trace: 12

Ref Trace:

Condition: CISPR CLASS-B
Test Operator:: Monica Harrison
Project #: : 08U12122
Company: : Honeywell
Configuration:: EUT, Power Supply
Mode: : Normal
Target: : FCC Class B
Voltage: : 115VAC / 60Hz
: L2: Peak (Blue); Average (Green)

8.1. MAXIMUM PERMISSIBLE EXPOSURE

FCC RULES

§1.1310 The criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of §2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)—Continued

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

IC RULES

IC Safety Code 6, Section 2.2.1 (a) A person other than an RF and microwave exposed worker shall not be exposed to electromagnetic radiation in a frequency band listed in Column 1 of Table 5, if the field strength exceeds the value given in Column 2 or 3 of Table 5, when averaged spatially and over time, or if the power density exceeds the value given in Column 4 of Table 5, when averaged spatially and over time.

Table 5
Exposure Limits for Persons Not Classified As RF and Microwave Exposed Workers (Including the General Public)

1 Frequency (MHz)	2 Electric Field Strength; rms (V/m)	3 Magnetic Field Strength; rms (A/m)	4 Power Density (W/m ²)	5 Averaging Time (min)
0.003–1	280	2.19		6
1–10	280/ f	2.19/ f		6
10–30	28	2.19/ f		6
30–300	28	0.073	2*	6
300–1 500	$1.585f^{0.5}$	$0.0042f^{0.5}$	$f/150$	6
1 500–15 000	61.4	0.163	10	6
15 000–150 000	61.4	0.163	10	$616\,000/f^{1.2}$
150 000–300 000	$0.158f^{0.5}$	$4.21 \times 10^{-4}f^{0.5}$	$6.67 \times 10^{-5}f$	$616\,000/f^{1.2}$

* Power density limit is applicable at frequencies greater than 100 MHz.

Notes:

1. Frequency, f , is in MHz.
2. A power density of 10 W/m² is equivalent to 1 mW/cm².
3. A magnetic field strength of 1 A/m corresponds to 1.257 microtesla (μT) or 12.57 milligauss (mG).

CALCULATIONS

Given

$$E = \sqrt{(30 * P * G) / d}$$

and

$$S = E^2 / 3770$$

where

E = Field Strength in Volts/meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power Density in milliwatts/square centimeter

Combining equations, rearranging the terms to express the distance as a function of the remaining variables, changing to units of Power to mW and Distance to cm, and substituting the logarithmic form of power and gain yields:

$$d = 0.282 * 10^{((P + G) / 20)} / \sqrt{S}$$

where

d = MPE distance in cm

P = Power in dBm

G = Antenna Gain in dBi

S = Power Density Limit in mW/cm²

Rearranging terms to calculate the power density at a specific distance yields

$$S = 0.0795 * 10^{((P + G) / 10)} / (d^2)$$

The power density in units of mW/cm² is converted to units of W/m² by multiplying by a factor of 10.

LIMITS

From FCC §1.1310 Table 1 (B), the maximum value of $S = 1.0 \text{ mW/cm}^2$

From IC Safety Code 6, Section 2.2 Table 5 Column 4, $S = 10 \text{ W/m}^2$

RESULTS

Operating Frequency (MHz)	MPE Distance (cm)	Output EIRP (dBm)	FCC Power Density (mW/cm ²)	IC Power Density (W/m ²)
10525.0	20.0	23.00	0.0397	0.3966

CONVERSION OF FIELD STRENGTH TO EIRP:

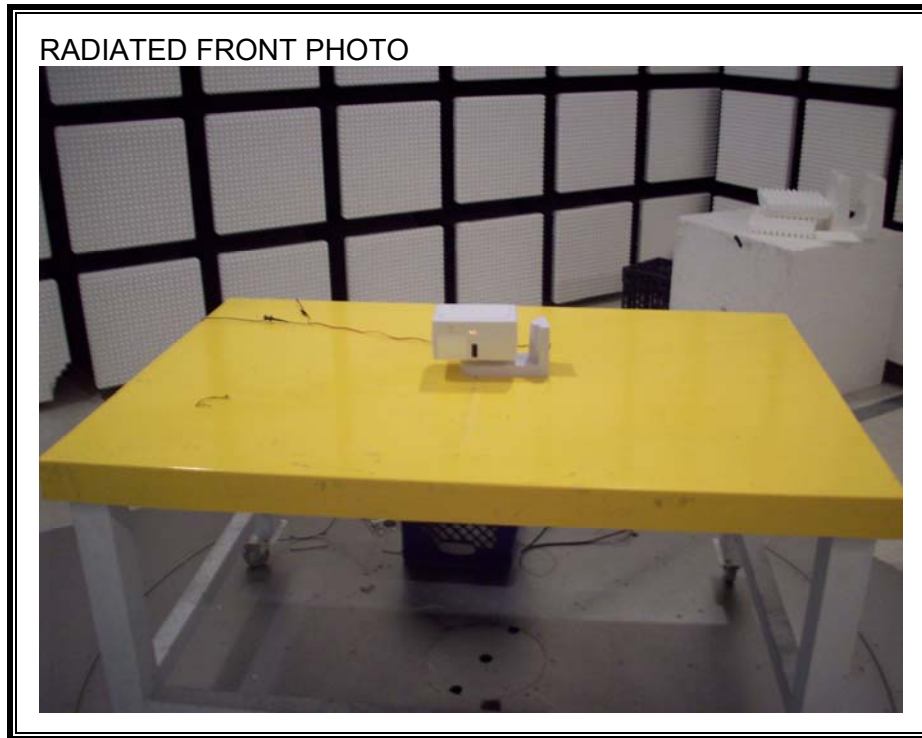
For frequencies where measurement equipment limitations preclude substitution measurements, the measured field strength at a 3 meter test distance is converted to EIRP using:

$$\text{EIRP (dBm)} = \text{Field Strength at 3 meters (dBuV/m)} - 95.2$$

9. SETUP PHOTOS

RADIATED RF MEASUREMENT SETUP

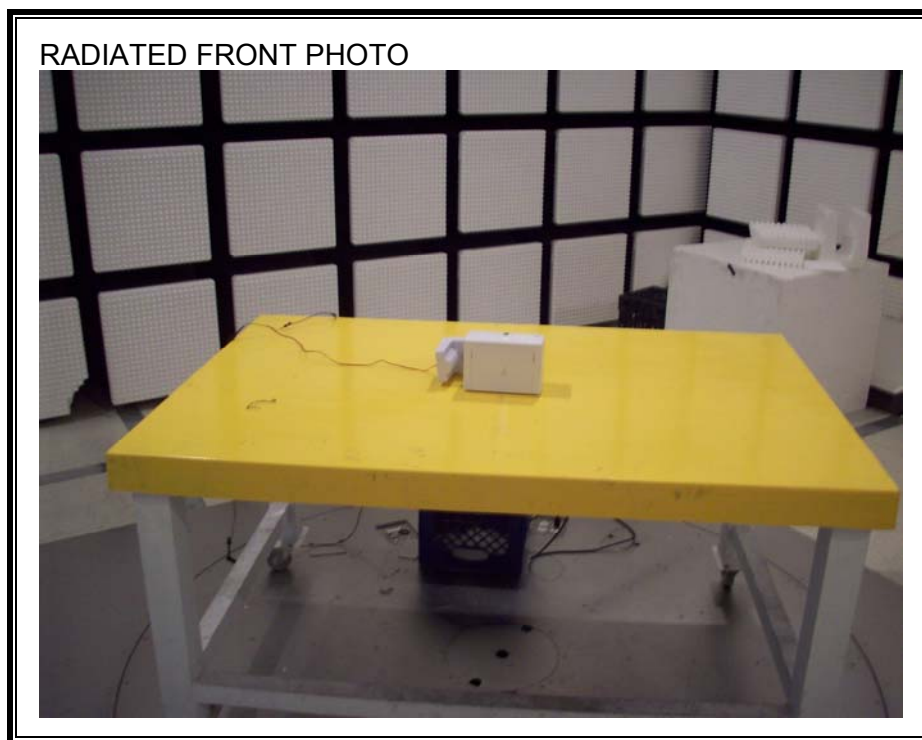
X - POSITION



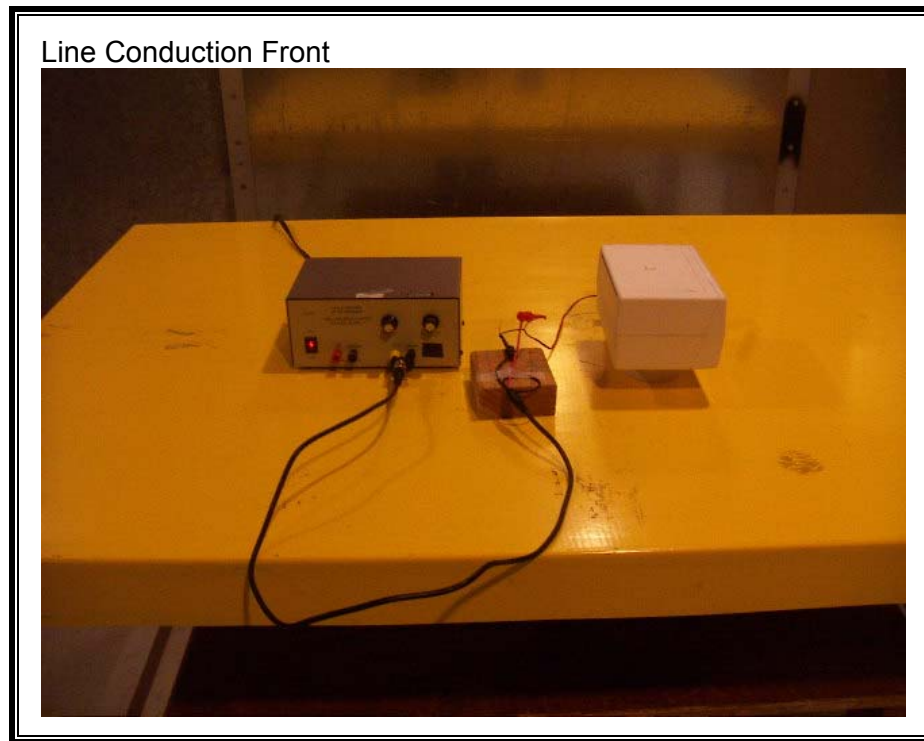
Y - POSITION



Z - POSITION



POWER LINE CONDUCTED EMISSIONS SETUP



Line Conduction Back



END OF REPORT