



**ADDENDUM TO HONEYWELL INTERNATIONAL INC.
TEST REPORT FC06-072**

FOR THE

ISP-80A AESS PROCESSOR, PN: 965-1694-0E7

FCC PART 87 RADIATED SPURIOUS EMISSIONS

COMPLIANCE

DATE OF ISSUE: MARCH 27, 2007

PREPARED FOR:

Honeywell International Inc.
15001 NE 36th Street
Redmond, WA 98052

P.O. No.: 3966918
W.O. No.: 85922

PREPARED BY:

Mary Ellen Clayton
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Date of test: November 16, 2006

Report No.: FC06-072A

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ADMINISTRATIVE INFORMATION

DATE OF TEST: November 16, 2006

DATE OF RECEIPT: November 16, 2006

FREQUENCY RANGE TESTED: 10 kHz-11 GHz

MANUFACTURER: Honeywell International Inc.
15001 NE 36th Street
Redmond, WA 98052

REPRESENTATIVE: Keith Peavler

TEST LOCATION: CKC Laboratories, Inc.
22116 23rd Drive S.E., Suite A
Bothell, WA 98021-4413

TEST METHOD: FCC Part 87 Radiated Spurious Emissions

PURPOSE OF TEST: **Original Report:** To demonstrate the compliance of the ISP-80A AESS Processor with the requirements for FCC Part 87 Radiated Spurious Emissions devices.
Addendum A: To convert the data to a FCC acceptable format with no new testing.



FCC TO CANADA STANDARD CORRELATION MATRIX

CONDITIONS FOR COMPLIANCE

No modifications to the EUT were necessary to comply.

APPROVALS

Steve Behm, Director of Engineering Services

QUALITY ASSURANCE:

A handwritten signature in black ink that reads 'Joyce Walker'.

Joyce Walker, Quality Assurance Administrative
Manager

TEST PERSONNEL:

A handwritten signature in black ink that reads 'Ryan Rutledge'.

Ryan Rutledge, Test Technologist

A handwritten signature in black ink that reads 'Katie Molina'.

Katie Molina, Senior EMC Engineer/Lab
Manager

EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The customer declares the EUT tested by CKC Laboratories was representative of a production unit.

At the time of testing, the following model was tested by CKC Laboratories: **AESS Processor, PN: 965-1694-0E7**

Since the time of testing the manufacturer has chosen to use the following model name in its place. Any differences between the names does not affect their EMC characteristics and therefore complies to the level of testing equivalent to the tested model name shown on the data sheets: **ISP-80A AESS Processor**

EQUIPMENT UNDER TEST

ISP-80A AESS Processor

Manuf: Honeywell International Inc.
Model: ISP-80A
Part No: 965-1694-0E7
Serial: ISPA-000302

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

Antenna Simulator

Manuf: Honeywell
Model: PN: 727-0016-001
Serial: 0025

Antenna Simulator

Manuf: Honeywell
Model: PN: 727-0016-001
Serial: 0074

TEMPERATURE AND HUMIDITY DURING TESTING

The temperature during testing was within +15°C and + 35°C.
The relative humidity was between 20% and 75%.

FCC 2.1033(c)(14)/2.1053/87.139 - FIELD STRENGTH OF SPURIOUS RADIATION

Test Location: CKC Laboratories • 22116 23rd Dr SE • Bothell, WA 98021-4413 • 425-402-1717

Customer: **Honeywell International Inc.**

Specification: **2.1053/87.139 Spurious**

Work Order #: **85922**

Date: 11/16/2006

Test Type: **Radiated Scan**

Time: 15:22:23

Equipment: **AESS Processor**

Sequence#: 7

Manufacturer: Honeywell

Tested By: Ryan Rutledge

Model: PN: 965-1694-0E7

S/N: ISPA-000302

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
AESS Processor*	Honeywell	PN: 965-1694-0E7	ISPA-000302

Support Devices:

Function	Manufacturer	Model #	S/N
Antenna Simulator	Honeywell	PN: 727-0016-001	0025
Antenna Simulator	Honeywell	PN: 727-0016-001	0074

Test Conditions / Notes:

Device is placed on wooden table 80 cm above a ground plane. Table will be rotated and antenna height varied when maximizing emissions. RF output is terminated with antenna simulators that are placed under the table, on the conductive surface of the turntable. Transmitter operating under normal conditions, terminated with antenna simulators. Customer states that lowest operating frequency in device is 20 MHz, and highest frequency is 1090 MHz. We will measure radiated spurious emissions from 10 MHz to 11 GHz. Frequency ranges tested: 10 - 30 MHz @ 9 kHz RBW, 9 kHz VBW. Measurement distance: 3 meters. Frequency range tested: 30 - 1000 MHz @ 120 kHz RBW, 120 kHz VBW. Frequency ranges tested: 1 - 11 GHz @ 1 MHz RBW, 1 MHz VBW.

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4446A	S/N: US44300437	05/27/2006	05/27/2008	AN02673
Bothell 5m Cable Set	S/N: P05444	11/28/2005	11/28/2007	ANP05444
EMCO 6502 Active Loop	S/N: 2156	02/20/2006	02/20/2008	AN00052

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4446A	S/N: US44300437	05/27/2006	05/27/2008	AN02673
Bothell 5m Cable Set	S/N: P05444	11/28/2005	11/28/2007	ANP05444
HP 8447D PreAmp	S/N: 2944A08601	07/10/2006	07/10/2008	AN01517
Chase BILOG	S/N: 2458	02/02/2005	02/02/2007	AN01993

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4446A	S/N: US44300437	06/13/2005	06/13/2007	AN02673
60" Pasternack 40 GHz Coax	S/N: N/A	05/11/2006	05/11/2008	AN05422
20' Helix Cable	S/N: 36	03/16/2006	03/16/2008	ANP05419
HP 83017A .5 - 26.5 GHz Pre-amp	S/N: 3123A00464	10/03/2005	10/03/2007	AN01271
36" Pasternack 40 GHz Coax	S/N: N/A	02/08/2005	02/08/2007	AN05206
EMCO 3115 Horn Ant	S/N: 9606-4854	12/13/2005	12/13/2007	AN01412

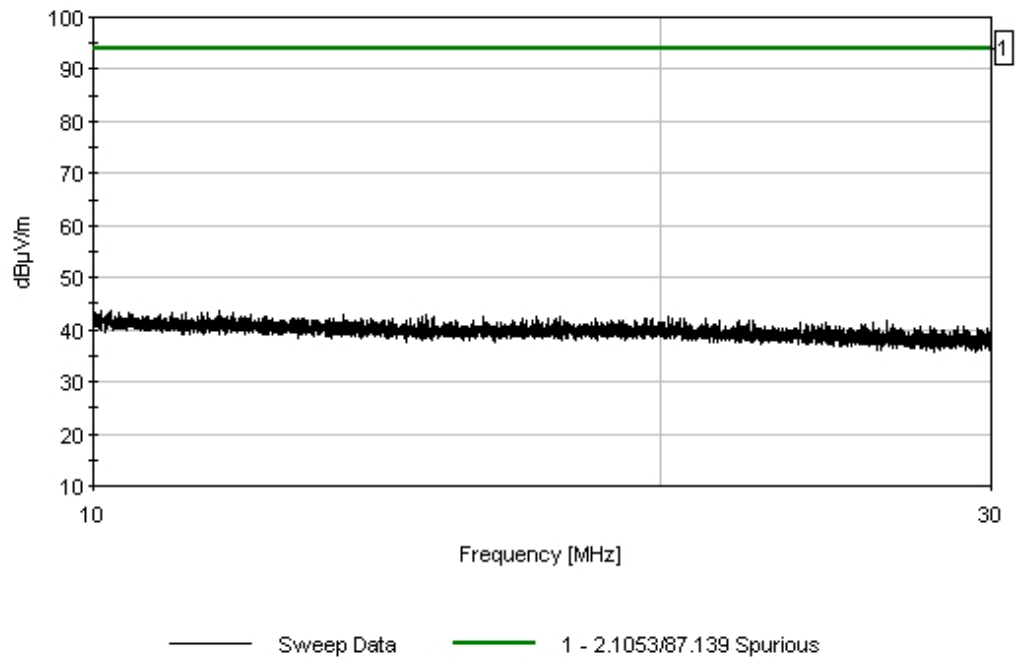
Operating Frequency: 1030 MHz and 1090 MHz
 Channels: Single Channel
 Highest Measured Output Power: 53.11 ERP(dBm)= 204.5 ERP(Watts)
 Distance: 3 meters
 Limit: 43+10Log(P) 66.11 dBc

Freq. (MHz)	Reference Level (dBm)	Antenna Polarity (H/V)	dBc	Pass/Fail
1,451.99	-44.5	Horiz	97.61	Pass
1,451.91	-48	Vert	101.11	Pass
1,848.01	-48.8	Horiz	101.91	Pass
924.02	-49.5	Vert	102.61	Pass
1,584.06	-50.2	Horiz	103.31	Pass
275.01	-50.7	Horiz	103.81	Pass
275.01	-51.8	Horiz	104.91	Pass
575.94	-52	Vert	105.11	Pass
1,584.02	-52.1	Vert	105.21	Pass
924.02	-53.1	Horiz	106.21	Pass
1,847.84	-53.2	Vert	106.31	Pass
274.96	-53.4	Vert	106.51	Pass
264.03	-54.5	Vert	107.61	Pass
659.98	-55.1	Horiz	108.21	Pass
550.00	-56	Vert	109.11	Pass
659.98	-58	Vert	111.11	Pass
831.93	-58.3	Vert	111.41	Pass
640.05	-58.3	Horiz	111.41	Pass
528.03	-58.5	Vert	111.61	Pass
83.84	-58.5	Horiz	111.61	Pass
81.78	-58.9	Horiz	112.01	Pass
763.71	-59	Horiz	112.11	Pass
395.97	-59.1	Vert	112.21	Pass
40.25	-59.2	Vert	112.31	Pass
525.03	-59.3	Vert	112.41	Pass
700.08	-59.3	Vert	112.41	Pass
511.94	-59.4	Vert	112.51	Pass
77.48	-59.5	Vert	112.61	Pass
264.03	-59.6	Horiz	112.71	Pass
724.93	-60	Vert	113.11	Pass
678.83	-60.1	Horiz	113.21	Pass
82.34	-60.4	Horiz	113.51	Pass
832.04	-60.5	Horiz	113.61	Pass
139.17	-60.6	Vert	113.71	Pass
625.04	-61	Vert	114.11	Pass
704.04	-61	Horiz	114.11	Pass
395.97	-61.1	Horiz	114.21	Pass
768.03	-61.2	Vert	114.31	Pass
593.95	-61.4	Vert	114.51	Pass
704.04	-61.5	Vert	114.61	Pass

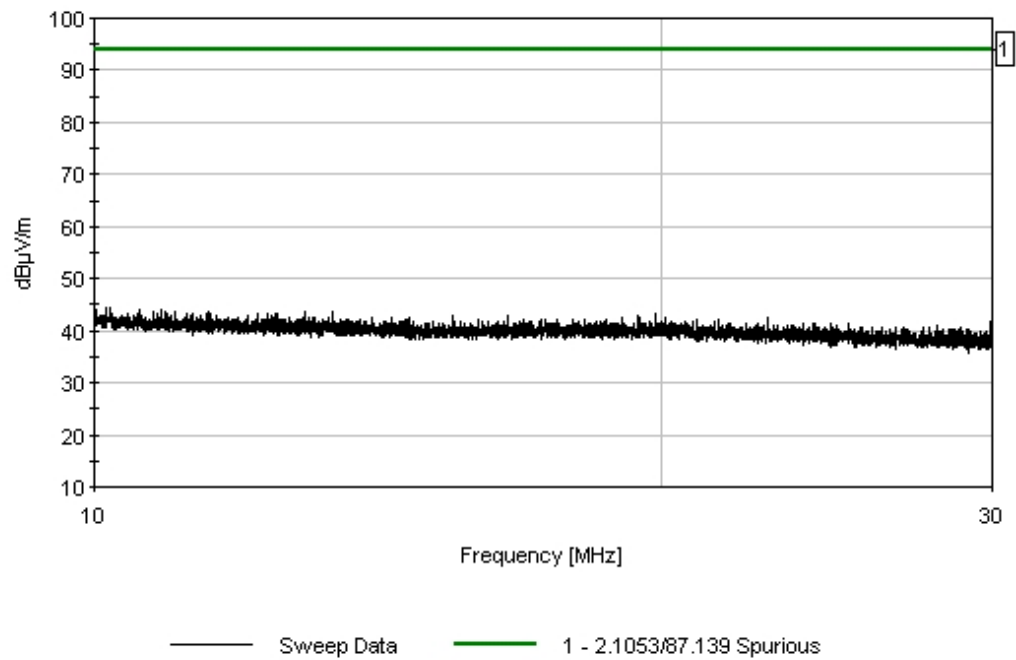
80.58	-61.5	Horiz	114.61	Pass
319.97	-61.6	Vert	114.71	Pass
792.01	-61.6	Vert	114.71	Pass
82.67	-61.8	Horiz	114.91	Pass
83.47	-61.8	Horiz	114.91	Pass
84.10	-61.8	Horiz	114.91	Pass
132.00	-61.9	Vert	115.01	Pass
959.97	-61.9	Vert	115.01	Pass
89.66	-62	Horiz	115.11	Pass
94.75	-62	Horiz	115.11	Pass
499.94	-62.1	Vert	115.21	Pass
750.02	-62.1	Vert	115.21	Pass
448.07	-62.2	Vert	115.31	Pass
626.96	-62.2	Vert	115.31	Pass
724.93	-62.2	Horiz	115.31	Pass
792.01	-62.2	Horiz	115.31	Pass
574.98	-62.3	Vert	115.41	Pass
85.97	-62.3	Horiz	115.41	Pass
86.70	-62.4	Horiz	115.51	Pass
576.06	-62.4	Horiz	115.51	Pass
990.07	-62.4	Horiz	115.51	Pass
744.62	-62.5	Vert	115.61	Pass
10.14	-62.7	Horiz	115.81	Pass
10.20	-62.7	Horiz	115.81	Pass
92.99	-62.7	Horiz	115.81	Pass
10.57	-62.8	Horiz	115.91	Pass
726.01	-62.8	Horiz	115.91	Pass
10.02	-62.9	Horiz	116.01	Pass
10.85	-63.1	Horiz	116.21	Pass
10.01	-63.2	Horiz	116.31	Pass
10.91	-63.2	Horiz	116.31	Pass
10.09	-63.3	Vert	116.41	Pass
11.66	-63.3	Vert	116.41	Pass
10.74	-63.3	Horiz	116.41	Pass
11.03	-63.3	Horiz	116.41	Pass
13.39	-63.3	Horiz	116.41	Pass
86.30	-63.3	Horiz	116.41	Pass
550.00	-63.3	Horiz	116.41	Pass
10.21	-63.5	Vert	116.61	Pass
11.51	-63.5	Horiz	116.61	Pass
12.93	-63.5	Horiz	116.61	Pass
12.93	-63.5	Horiz	116.61	Pass

959.97	-63.5	Horiz	116.61	Pass
11.02	-63.6	Vert	116.71	Pass
11.50	-63.6	Vert	116.71	Pass
10.54	-63.6	Horiz	116.71	Pass
10.94	-63.6	Horiz	116.71	Pass
12.47	-63.6	Horiz	116.71	Pass
19.89	-63.6	Horiz	116.71	Pass
10.31	-63.7	Vert	116.81	Pass
11.20	-63.7	Horiz	116.81	Pass
11.28	-63.7	Horiz	116.81	Pass
12.23	-63.7	Horiz	116.81	Pass
10.02	-63.8	Vert	116.91	Pass
10.45	-63.8	Vert	116.91	Pass
11.20	-63.9	Vert	117.01	Pass
11.42	-63.9	Vert	117.01	Pass
11.88	-63.9	Vert	117.01	Pass
10.07	-64	Vert	117.11	Pass
11.14	-64	Vert	117.11	Pass
12.13	-64	Vert	117.11	Pass
10.16	-64.1	Vert	117.21	Pass
10.49	-64.1	Vert	117.21	Pass
10.84	-64.1	Vert	117.21	Pass
11.66	-64.2	Vert	117.31	Pass
13.58	-64.2	Vert	117.31	Pass
15.03	-64.2	Vert	117.31	Pass

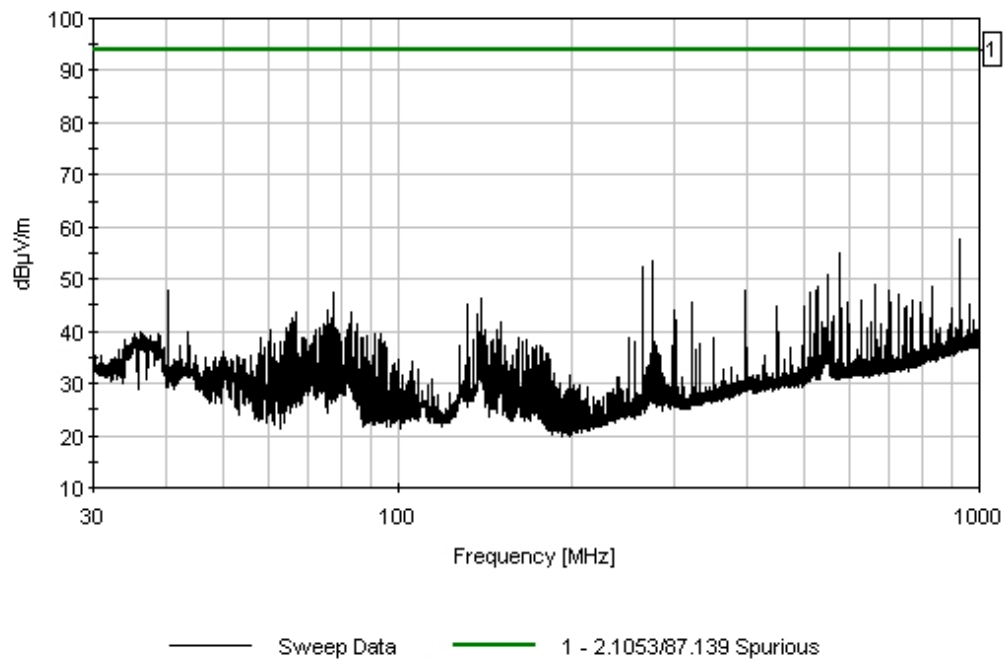
CKC Laboratories Date: 11/16/2006 Time: 15:22:23 Honeywell International Inc. WVO#: 85922
 2.1053/87.139 Spurious Test Distance: 3 Meters Sequence#: 7 Polarity: Vert
 Notes: Device is placed on wooden table 80 cm above a ground plane. Table will be rotated and antenna height varied w/



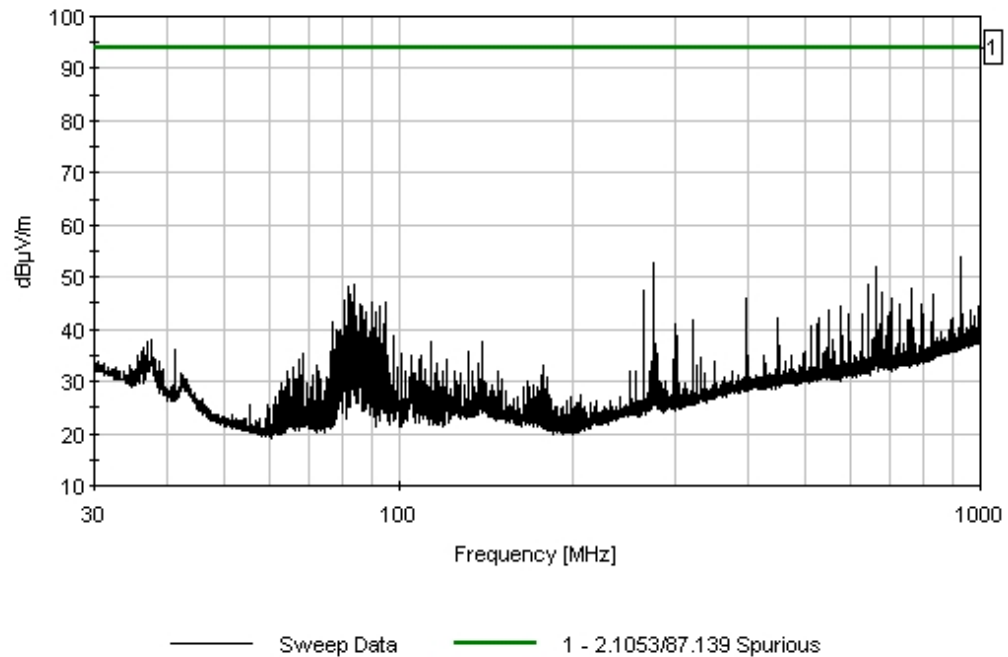
CKC Laboratories Date: 11/16/2006 Time: 15:29:16 Honeywell International Inc. WO#: 85922
 2.1053/87.139 Spurious Test Distance: 3 Meters Sequence#: 8 Polarity: Horiz
 Notes: Device is placed on wooden table 80 cm above a ground plane. Table will be rotated and antenna height varied w/



CKC Laboratories Date: 11/16/2006 Time: 15:46:10 Honeywell International Inc. WVO#: 85922
 2.1053/87.139 Spurious Test Distance: 3 Meters Sequence#: 9 Polarity: Vert
 Notes: Device is placed on wooden table 80 cm above a ground plane. Table will be rotated and antenna height varied w/



CKC Laboratories Date: 11/16/2006 Time: 16:02:40 Honeywell International Inc. WVO#: 85922
 2.1053/87.139 Spurious Test Distance: 3 Meters Sequence#: 10 Polarity: Horiz
 Notes: Device is placed on wooden table 80 cm above a ground plane. Table will be rotated and antenna height varied w/



PHOTOGRAPHS

PHOTOGRAPH SHOWING RADIATED EMISSIONS



Radiated Emissions - Front View

PHOTOGRAPH SHOWING RADIATED EMISSIONS



Radiated Emissions - Back View