

*FCC PART 15, SUBPART B and C  
 TEST REPORT*  
*for*  
**ANDON COMMUNICATION SYSTEM**  
**MODEL: IA201**

Prepared for  
**INDUSTRIAL ANDONS, LLC**  
 3860 SE 52<sup>ND</sup> AVENUE  
 OCALA, FL 34480

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DATE: APRIL 18, 2006

	REPORT BODY	APPENDICES					TOTAL
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## GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Device Tested: Andon Communication System  
 Model: IA201  
 S/N: N/A

Product Description: See Expository Statement

Modifications: The EUT was not modified in order to meet the specifications.

Manufacturer: Industrial Andons, LLC  
 3860 SE 52<sup>nd</sup> Avenue  
 Ocala, FL 34480

Test Dates: April 12 and 14, 2006

Test Specifications: EMI requirements  
 CFR Title 47, Part 15 Subpart B; and Subpart C, Sections 15.205, 15.207, 15.209 and 15.231

Test Procedure: ANSI C63.4

Test Deviations: The test procedure was not deviated from during the testing.

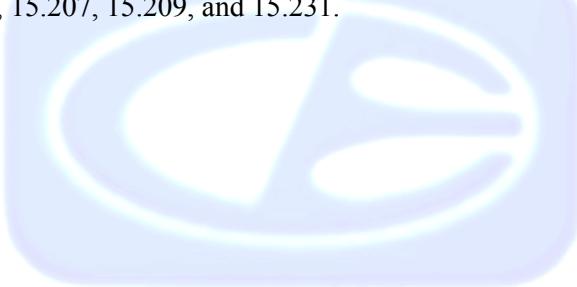
## SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 150 kHz - 30 MHz	Complies with the <b>Class A</b> limits of CFR Title 47, Part 15, Subpart B; and Subpart C, section 15.207.
2	Radiated RF Emissions, 10 kHz - 4180 MHz	Complies with the <b>Class B</b> limits of CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.231.
3	-20 dB Bandwidth of the Fundamental	Complies with the requirements of CFR Title 47, Part 15, Subpart C, section 15.231 (c)



## 1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Andon Communication System Model: IA201. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class A** (Conducted Emissions) and **Class B** (Radiated Emissions) specification limits defined by CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.207, 15.209, and 15.231.



## 2. ADMINISTRATIVE DATA

### 2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823.

### 2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

### 2.3 Cognizant Personnel

Industrial Andons, LLC

Robert Wilson      Owner

Compatible Electronics, Inc.

Kyle Fujimoto      Test Engineer  
Michael Christensen      Lab Manager

### 2.4 Date Test Sample was Received

The test sample was received on April 8, 2006.

### 2.5 Disposition of the Test Sample

The sample has not been returned to Industrial Andons, LLC. as of April 18, 2006.

### 2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network
N/A	Not Applicable



### 3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
CFR Title 47, Part 15	FCC Rules – Radio frequency devices (including digital devices)
ANSI C63.4 2003	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz



## 4. DESCRIPTION OF TEST CONFIGURATION

### 4.1 Description Of Test Configuration - EMI

Setup and operation of the equipment under test.

Specifics of the EUT and Peripherals Tested

**Transceiver Mode:** The Andon Communication System Model: IA201 (EUT) was connected to a laptop and two switch boxes via its USB and data ports, respectively. The laptop was also connected to a printer and AC Adapter via its parallel and power ports, respectively. The EUT was continuously transmitting and receiving. The EUT has an external antenna with a reverse SMA connector. Also, the lights on the EUT are on and a melody would play from the speaker on a continuous basis.

The transmitter will have no transmission for longer than 5 seconds during a cycle after it is turned on and will stop transmitting within 5 seconds after the switch is turned off.

Note: in this mode the EUT's lights and speaker are controlled by the Worker Signal Station that is transmitting to the EUT. The Worker Signal Station is connected to its own switch box.

**Digital Mode:** The Andon Communication System Model: IA201 (EUT) was connected to a laptop and two switch boxes via its USB and data ports, respectively. The laptop was also connected to a printer and AC Adapter via its parallel and power ports, respectively. The lights on the EUT were on and a melody would play from the speaker. Note: in this mode the EUT's lights and speaker are controlled by the two switch boxes connected to the EUT.

During the conducted emissions test, the EUT was placed into the transceiver mode to verify that it did not add to the emissions of the digital portion.

It was determined that the emissions were at their highest level when the EUT was operating in the above configuration. The cables were moved to maximize the emissions. The final conducted as well as radiated data was taken in this mode of operation. All initial investigations were performed with the spectrum analyzer in manual mode scanning the frequency range continuously. The cables were bundled and routed as shown in the photographs in Appendix D.



#### 4.1.1 **Cable Construction and Termination**

**Cable 1**

This is a 1 meter braid and foil shielded cable connecting the laptop to the EUT. The cable has a USB connector at each end. The shield of the cable was grounded to the chassis via the connector.

**Cable 2**

This is a 2 meter unshielded cable connecting the laptop to the AC Adapter. The cable has a 1/8 inch power connector at the laptop end and is hard wired into the AC Adapter.

**Cable 3**

This is a 2 meter braid and foil shielded cable connecting the laptop to the printer. The cable has a D-25 pin metallic connector at the EUT end and a metallic Centronics type connector at the printer end. The shield of the cable was grounded to the chassis via the connectors.

**Cable 4**

This is a 3 meter unshielded cable connecting the EUT to switch box #1. The cable has a 4 pin circular connector at each end. The cable was bundled to a length of 1 meter.

**Cable 5**

This is a 3 meter unshielded cable connecting the EUT to switch box #2. The cable has a 4 pin circular connector at each end. The cable was bundled to a length of 1 meter.

**Cable 6**

This is a 3 meter unshielded cable connecting the Worker Signal Station to switch box #3. The cable has a 4 pin circular connector at each end.



## 5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

### 5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIALNUMBER	FCC ID
ANDON COMMUNICATION SYSTEM (EUT)	INDUSTRIAL ANDONS, LLC	IA201	N/A	RHX-IA201
LAPTOP	COMPAQ	1456VQLIN	1V98CLS9A1J1	DoC
AC ADAPTER	COMPAQ	ADP-60BB	298237-001	N/A
SWITCH BOX #1	INDUSTRIAL ANDONS, LLC	N/A	N/A	N/A
SWITCH BOX #2	INDUSTRIAL ANDONS, LLC	N/A	N/A	N/A
PRINTER	CITIZEN	LSP-10	1184398-7Z	DLK66TLSP-10
WORKER SIGNAL STATION	INDUSTRIAL ANDONS, LLC	IA101	N/A	RHX-IA101
SWITCH BOX #3	INDUSTRIAL ANDONS, LLC	N/A	N/A	N/A



5.2 **EMI Test Equipment**

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
<b>GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS</b>					
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08784	June 10, 2005	June 10, 2006
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	3701A22279	June 10, 2005	June 10, 2006
Quasi-Peak Adapter	Hewlett Packard	85650A	2430A00424	June 11, 2005	June 11, 2006
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
<b>CONDUCTED EMISSIONS TEST EQUIPMENT</b>					
Emissions Program	Compatible Electronics	2.3 (SR19)	N/A	N/A	N/A
LISN	Com Power	LI-215	12082	September 1, 2005	September 1, 2006
LISN	Com Power	LI-215	12078	September 1, 2005	September 1, 2006
Transient Limiter	Seaward	252A910	1	August 17, 2005	August 17, 2006
<b>RF RADIATED EMISSIONS TEST EQUIPMENT</b>					
Radiated Emissions Data Capture Program	Compatible Electronics	2.0	N/A	N/A	N/A
EMI Receiver	Rohde & Schwarz	ESIB40	100172	October 28, 2004	October 28, 2006
Preamplifier	Com Power	PA-103	1582	January 19, 2006	Jan. 19, 2007
Biconical Antenna	Com Power	AB-900	15251	March 9 2006	March 9 2007
Log Periodic Antenna	Com Power	AL-100	16247	August 22, 2005	Aug. 22, 2006
Loop Antenna	Com Power	AL-130	17089	September 21, 2005	Sept. 21, 2006
Horn Antenna	Com Power	AH-118	10067	July 27, 2004	July 27, 2006
Microwave Preamplifier	Com Power	PA-122	181917	January 20, 2006	Jan. 20, 2007
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A

## 6. TEST SITE DESCRIPTION

### 6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for EMI test location.

### 6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was grounded only via the safety ground in its power cord.



## 7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

### 7.1 RF Emissions

#### 7.1.1 Conducted Emissions Test

The spectrum analyzer was used as a measuring meter. The data was collected with the spectrum analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A 10 dB attenuation pad was used for the protection of the spectrum analyzer input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the spectrum analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4: 2001. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by the Compatible Electronics conducted emissions software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

#### Test Results:

The EUT complies with the **Class A** limits of CFR Title 47, Part 15, Subpart B and CFR Title 47, Part 15, Subpart C, Section 15.207 for conducted emissions.



### 7.1.2 Radiated Emissions (Spurious and Harmonics) Test

The spectrum analyzer was used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The Com Power Preamplifier Model: PA-103 was used for frequencies from 30 MHz to 1 GHz, and the Com-Power Microwave Preamplifier Model: PA-122 was used for frequencies above 1 GHz. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps.

The measurement bandwidths and transducers used for the radiated emissions test were:

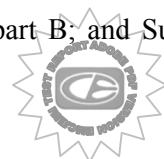
FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
9 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 4.18 GHz	1 MHz	Horn Antenna

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results. The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance to obtain final test data. The final qualification data sheets are located in Appendix E.

#### Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B and Subpart C, Section 15.205, 15.209, and 15.231 for radiated emissions.



## 7.2 Bandwidth of the Fundamental

The -20 dB bandwidth was checked to see that it was within 0.25% of the fundamental frequency for the EUT. Photographs of the -20 dB bandwidth are located in Appendix E.



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**8. CONCLUSIONS**

The Andon Communication System Model: IA201 meets all of the **Class A** (Conducted Emissions) and **Class B** (Radiated Emissions) specification limits defined in CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.207, 15.209, and 15.231.



## APPENDIX A

### ***LABORATORY RECOGNITIONS***



## ***LABORATORY RECOGNITIONS***

**Compatible Electronics has the following agency accreditations:**

National Voluntary Laboratory Accreditation Program - Lab Code: 200528-0

Voluntary Control Council for Interference - Registration Numbers: R-983, C-1026, R-984 and C-1027

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

**Compatible Electronics is recognized or on file with the following agencies:**

Federal Communications Commission

Industry Canada

Radio-Frequency Technologies (Competent Body)



## APPENDIX B

### ***MODIFICATIONS TO THE EUT***



## MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.231, FCC Class A (conducted), or FCC Class B (radiated) specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modifications were made to the EUT during the testing.



## APPENDIX C

***ADDITIONAL MODELS COVERED  
UNDER THIS REPORT***



## **ADDITIONAL MODELS COVERED UNDER THIS REPORT**

**USED FOR THE PRIMARY TEST**

Andon Communication System  
Model: IA201  
S/N: N/A

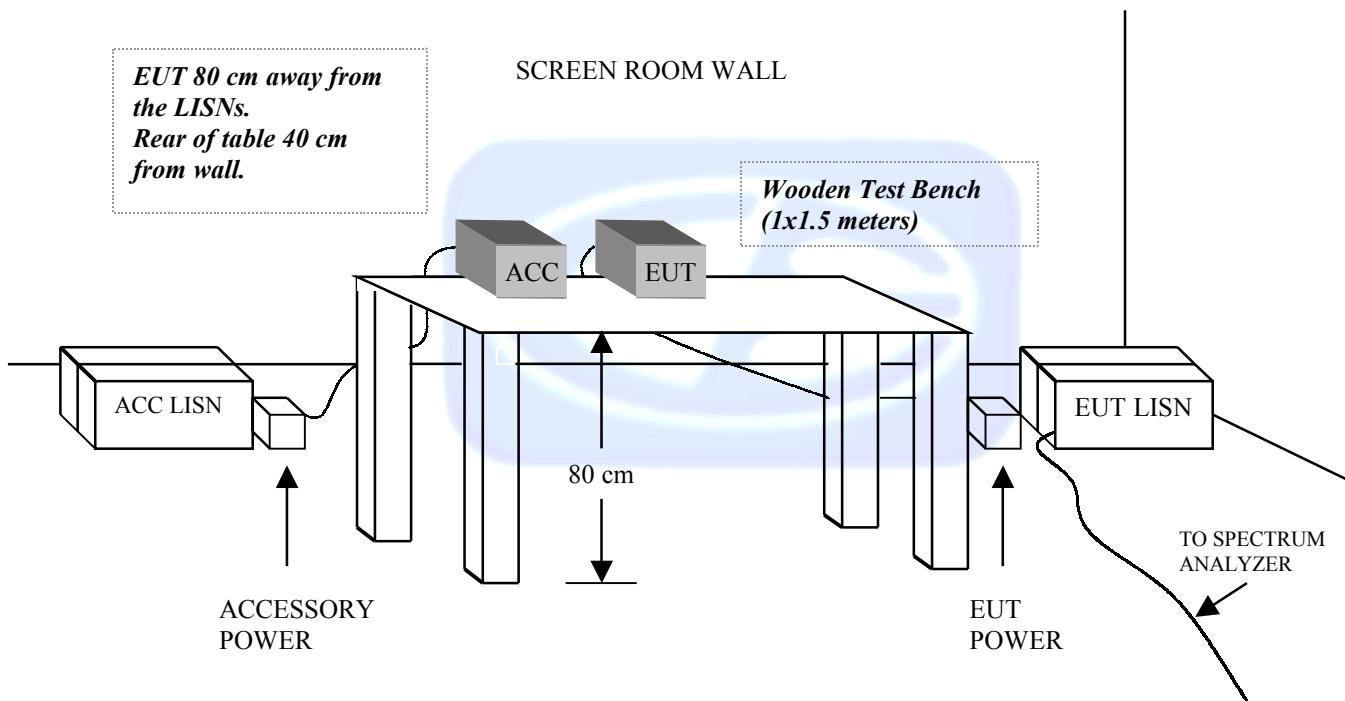
There were no additional models covered under this report.



## APPENDIX D

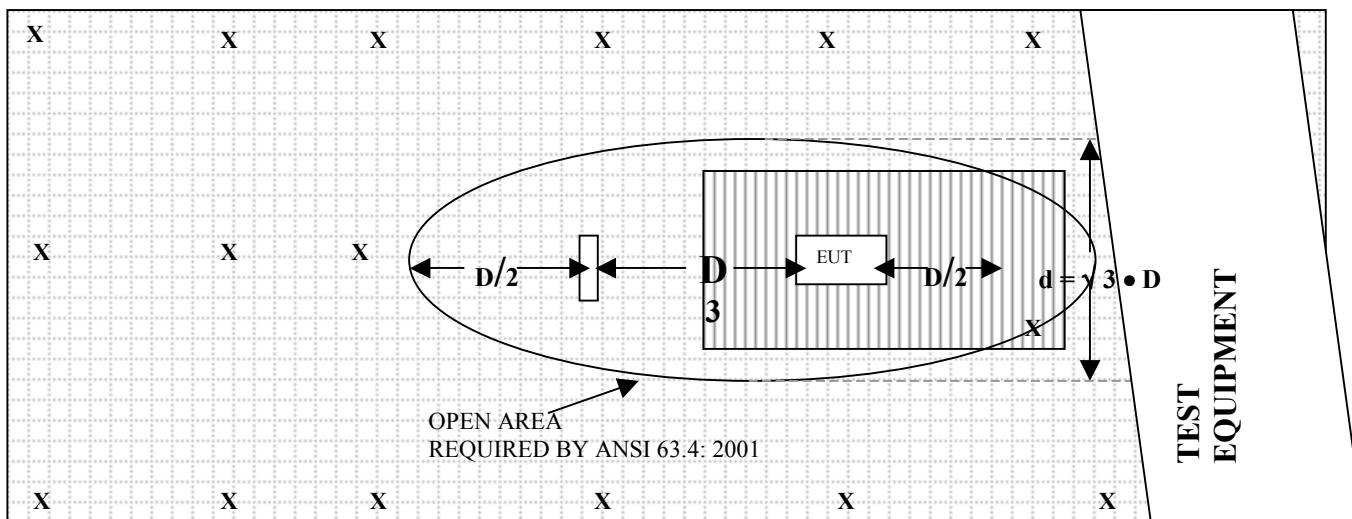
### ***DIAGRAMS, CHARTS, AND PHOTOS***



**FIGURE 1: CONDUCTED EMISSIONS TEST SETUP**


**FIGURE 2: PLOT MAP AND LAYOUT OF RADIATED SITE**

**OPEN LAND > 15 METERS**



**OPEN LAND > 15 METERS**

 = GROUND RODS

 = GROUND SCREEN

 = TEST DISTANCE (meters)

 = WOOD COVER



**COM-POWER AB-900****BICONICAL ANTENNA****S/N: 15251****CALIBRATION DATE: MARCH 9, 2006**

<b>FREQUENCY (MHz)</b>	<b>FACTOR (dB)</b>	<b>FREQUENCY (MHz)</b>	<b>FACTOR (dB)</b>
30	11.27	120	13.04
35	10.29	125	12.67
40	9.72	140	11.91
45	11.45	150	11.61
50	13.34	160	13.67
60	11.44	175	15.97
70	8.41	180	16.64
80	6.21	200	16.54
90	7.50	250	16.96
100	11.65	300	17.48



**COM-POWER AL-100****LOG PERIODIC ANTENNA****S/N: 16247****CALIBRATION DATE: AUGUST 22, 2005**

<b>FREQUENCY (MHz)</b>	<b>FACTOR (dB)</b>	<b>FREQUENCY (MHz)</b>	<b>FACTOR (dB)</b>
300	12.70	700	19.72
400	13.19	800	20.59
500	14.99	900	21.10
600	15.95	1000	24.35



**COM-POWER PA-103****PREAMPLIFIER****S/N: 1582****CALIBRATION DATE: JANUARY 19, 2006**

<b>FREQUENCY (MHz)</b>	<b>FACTOR (dB)</b>	<b>FREQUENCY (MHz)</b>	<b>FACTOR (dB)</b>
30	32.7	300	32.4
40	32.6	350	32.4
50	32.6	400	32.1
60	32.8	450	32.1
70	32.7	500	31.8
80	32.7	550	31.8
90	32.7	600	32.0
100	32.6	650	31.9
125	32.6	700	31.5
150	32.5	750	31.7
175	32.4	800	31.4
200	32.5	850	31.6
225	32.5	900	30.8
250	32.3	950	31.1
275	32.4	1000	30.9



**COM-POWER PA-122****PREAMPLIFIER****S/N: 181917****CALIBRATION DATE: JANUARY 20, 2006**

<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>	<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>
1.0	34.697	10.0	36.558
1.5	33.817	10.5	35.048
2.0	33.587	11.0	33.258
2.5	33.804	11.5	32.960
3.0	33.850	12.0	33.312
3.5	33.943	12.5	33.836
4.0	34.399	13.0	34.178
4.5	34.847	13.5	34.197
5.0	35.172	14.0	33.769
5.5	35.383	14.5	33.392
6.0	35.539	15.0	33.387
6.5	34.802	15.5	34.038
7.0	33.793	16.0	34.884
7.5	33.511	16.5	35.740
8.0	33.910	17.0	35.341
8.5	34.907	17.5	34.729
9.0	36.036	18.0	33.760
9.5	36.661		



**COM POWER AH-118****HORN ANTENNA****S/N: 10067****CALIBRATION DATE: JULY 27, 2004**

<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>	<b>FREQUENCY (GHz)</b>	<b>FACTOR (dB)</b>
1.0	25.0	10.0	37.8
1.5	27.9	10.5	39.4
2.0	31.5	11.0	39.4
2.5	31.1	11.5	40.6
3.0	30.6	12.0	40.8
3.5	30.5	12.5	40.5
4.0	30.6	13.0	41.2
4.5	31.4	13.5	42.0
5.0	33.7	14.0	43.1
5.5	33.8	14.5	43.4
6.0	34.7	15.0	39.2
6.5	35.0	15.5	38.8
7.0	35.9	16.0	40.1
7.5	38.1	16.5	40.2
8.0	38.2	17.0	43.4
8.5	37.7	17.5	46.6
9.0	37.7	18.0	45.8
9.5	38.4		



**COM-POWER AL-130****LOOP ANTENNA****S/N: 17089****CALIBRATION DATE: SEPTEMBER 21, 2005**

<b>FREQUENCY (MHz)</b>	<b>MAGNETIC (dB/m)</b>	<b>ELECTRIC (dB/m)</b>
0.009	-42.84	8.66
0.01	-41.93	9.57
0.02	-41.29	10.21
0.05	-42.37	9.13
0.07	-41.8	9.7
0.1	-41.83	9.67
0.2	-44.13	7.37
0.3	-41.73	9.77
0.5	-41.8	9.7
0.7	-41.53	9.97
1	-41.46	10.04
2	-41.14	10.36
3	-41.26	10.24
4	-41.46	10.04
5	-41.10	10.40
10	-40.83	10.67
15	-41.47	10.03
20	-35.44	16.06
25	-42.37	9.13
30	-42.94	8.56



**FRONT VIEW**

INDUSTRIAL ANDONS, LLC  
ANDON COMMUNICATION SYSTEM  
MODEL: IA201

FCC SUBPART B AND C - RADIATED EMISSIONS – BELOW 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**





#### REAR VIEW

INDUSTRIAL ANDONS, LLC  
ANDON COMMUNICATION SYSTEM  
MODEL: IA201

FCC SUBPART B AND C - RADIATED EMISSIONS – BELOW 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



**FRONT VIEW**

INDUSTRIAL ANDONS, LLC  
ANDON COMMUNICATION SYSTEM  
MODEL: IA201

FCC SUBPART B AND C - RADIATED EMISSIONS – ABOVE 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



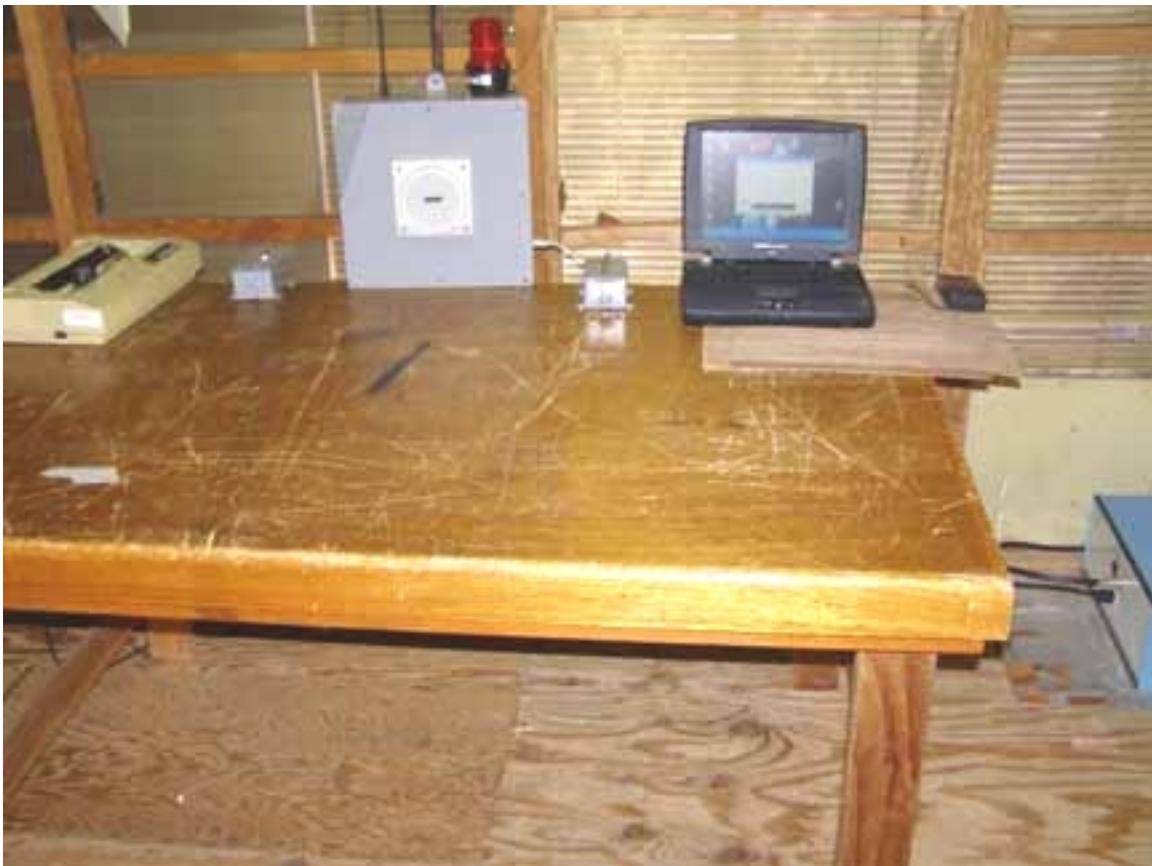
**REAR VIEW**

INDUSTRIAL ANDONS, LLC  
ANDON COMMUNICATION SYSTEM  
MODEL: IA201

FCC SUBPART B AND C - RADIATED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**





**FRONT VIEW**

INDUSTRIAL ANDONS, LLC  
ANDON COMMUNICATION SYSTEM  
MODEL: IA201

FCC SUBPART B AND C - CONDUCTED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



**REAR VIEW**

INDUSTRIAL ANDONS, LLC  
ANDON COMMUNICATION SYSTEM  
MODEL: IA201  
FCC SUBPART B AND C - CONDUCTED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

