

1736 Vista View Drive | Longmont, CO 80504 | tel: 303.776.7249 | fax: 303.776.7314 | info@emcintegrity.com

Test Report Number:	ETRA71127, Rev. B
Reference Standard:	EN 55011: 2007, Class A, Group 1, FCC Part 18
Date of Test:	14 November 2007
Date of Report:	15 January 2008
Product Name:	IonCleanse Premier
Model Number:	IonCleanse Premier
Serial Number:	08000
Manufacturer:	A Major Difference
Representative:	Neill Moroney
Report Type:	Radiated and Conducted Emissions
Test Result:	Compliant
Approved By:	Chin K. Poon



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Prepared for:

A Major Difference 2950 S Jamaica Ct. Suite 300 Aurora, CO 80014 Phone: 303-755-0112 Fax: 303-755-3022

Customer Representative:

Neill Moroney Vice-President

Tested at:

EMC Integrity, Inc. 1736 Vista View Drive Longmont, Colorado 80504

Tested by:

Tom Wittig Lead Technician

Report Prepared by:

Mary Burback Office Manager

Report Approved by:

Chris Poore Laboratory Manager

Revision	Description of Revision	Date:
Rev	Initial Release	17 December 2007
Rev. A	Changed name of manufacturer from Stargate International to "A Major Difference"	10 January 2008
Rev. B	Changed description of device from "body detoxification" to "vitality enhancement system."	15 January 2008

TABLE OF CONTENTS

Test Summary	Section #
Test Environment	2.0
Radiated Emissions	
Conducted Emissions	4.0
AC Power Line Flicker	5.0

LIST OF APPENDICES

Radiated Emissions Test DataA	PPENDIX A
Conducted Emissions Test Data, 115 Vac/60 Hz A	PPENDIX B
Conducted Emissions Test Data, 230 Vac/50 Hz A	PPENDIX C
AC Power Line Flicker Test DataA	PPENDIX D
Product Data SheetA	PPENDIX E
EMI Test LogA	PPENDIX F
Laboratory AccreditationsA	PPENDIX G

1.0 TEST SUMMARY

1.1 Product Description

The unit under test (UUT) was the IonCleanse Premier. The Serial Number tested was 08000. This product is manufactured by A Major Difference located in Aurora, Colorado. It is a vitality enhancement system. A more complete description of this product may be found in the Product Data Sheet, located in Appendix E of this report.

1.2 Purpose

This report documents the test efforts performed on the IonCleanse Premier to verify compliance to the Class A, Group 1 limits of EN 55011: 2007 and FCC Part 18. This was a formal qualification test and was conducted on 14 November 2007.

1.3 Test Standards Used

The emission limits applied to the product tested are defined in EN 55011: 2007, which is the product family standard for Industrial, Scientific and Medical (ISM) equipment. The UUT was set up as specified in ANSI C63.4: 2003.

The normative references of this standard define the test methods used for the emissions testing. These standards are contained in Table 1-1.

CISPR 11: 2004 + A2: 2006	EN 55011: 2007
CISPR 22: 2006	EN 55022: 1998 + A1 (2000) + A2 (2003)
CFR 47, FCC Parts 15 & 18	EN 61326: 1997 + A1: 1998 + A2: 2001 + A3: 2003
EN 60601-1-2: 2001	EN 55103-1: 1997
EN 61000-6-3: 2001	EN 61000-6-4: 2001
ANSI C63.4: 2003	CISPR 16-1: 2002

<u>Table 1-1</u>

1.4 Test Results

The UUT **complied** with the Class A, Group 1 emission requirements defined by EN 55011: 2007, and with FCC Part 18. The UUT also complied with the requirements for AC power line flicker, as defined by IEC and EN 61000-3-3. Test data is contained in the appropriate appendices of this report.

1.5 Modifications Required for Compliance

No modifications were required for compliance with emissions.

2.0 TEST ENVIRONMENT

2.1 Radiated Emissions Test Site

Radiated emissions testing was performed at a distance of 10-meters in a semi-anechoic 10meter chamber. This chamber is calibrated annually and meets the volumetric site attenuation requirements of ANSI C63.4: 2003 at a distance of 10 meters. For measurements from 30 MHz to 2 GHz, a biconilog antenna is used in conjunction with a high-gain, low-noise preamplifier. This is connected to an HP 8566B spectrum analyzer with an HP 85650A Quasi-Peak (QP) Adapter, via an HP 85685 RF Preselector.

Radiated emissions testing is broken into two parts: pre-scan and QP/maximization. Prescanning a product from 30 MHz to 2 GHz consists of measuring peak emissions from eight radials (every 45 degrees), at four antenna heights (1 m, 2 m, 3 m and 4 m) for both antenna polarities. Data is recorded in a graph showing amplitude vs. frequency of the emissions, and frequencies for QP/maximization are chosen based on this graph. The procedure for maximizing emissions is as follows:

- 1. The analyzer is tuned to the frequency associated with the emissions having the least margin.
- 2. The turntable and antenna mast are moved to the location where the maximum emission was measured during the pre-scan.
- 3. Both are then oriented such that the maximum emission is obtained.
- 4. Cables on the UUT are manually manipulated to achieve the maximum emission.
- 5. The turntable and antenna mast are then re-adjusted to ensure a maximum reading.
- 6. If the signal in question is less than 1 GHz, quasi-peak detection is performed on the signal for a minimum of 10 seconds. For signals greater than 1 GHz, video averaging is performed.
- 7. Turntable/antenna mast maximization and QP detection are performed on all other signals within 6 dB of the limit. In the event that there are not six signals within 6 dB of the limit, the highest six signals are maximized. This ensures that a minimum of six signals are maximized and appear in the final data table.

2.2 Conducted Emissions Test Site

Conducted emissions testing was performed on a 10' by 10' ground plane, which is bonded to the wall of the 10-meter chamber, using its wall as the vertical coupling plane. Line impedance stabilization networks (LISNs) was inserted in series with both the UUT and the support equipment. The LISNs used were standard 50 $\Omega/50$ uH LISNs which complied with the requirements of ANSI C63.4. These LISNs are calibrated annually for both complex impedance and insertion loss. Measurement equipment used was an HP 8566B spectrum analyzer with an HP 85650A QP adapter. In addition, a transient limiter and a high-pass filter are used to protect the front-end of the receiver from transients and low-frequency noise, respectively.

2.3 Measurement Uncertainty

The measurement uncertainty for EMC Integrity's emissions test facility complies with the requirements defined in CISPR 16. The complete calculations of EMC Integrity's measurement uncertainty is contained in an EMCI memo, which is available upon request. However, a summary of EMCI's measurement uncertainty is given in Table 2-1.

Test	Requirement	Actual
Conducted Emissions	3.60 dB	3.04 dB
Radiated Emissions – Horizontal Polarity	5.20 dB	4.67 dB
Radiated Emissions – Vertical Polarity	5.20 dB	5.01 dB

Table 2-1

3.0 Radiated Emissions

3.1 Summary of Test Results

Radiated electric field emissions were measured on the UUT over the frequency range from 30 MHz to 1 GHz. The UUT was powered from 230 Vac/50 Hz, configured in its normal operating mode, and exercised continually during testing. Cables were oriented such that the maximum emission was achieved and quasi-peak detection was performed all signals (minimum of six) used in the final data table.

Test result:CompliantMargin:2.75 dB @ 96.444 MHz

3.2 Test Setup

The UUT was set up in accordance with ANSI C63.4: 2003 and tested to the Class A, Group 1 limits specified in EN 55011 and FCC Part 18.

3.3 Special Configurations

Not applicable.

3.4 Deviations from Test Procedures

Not applicable.

3.5 Test Data

See APPENDIX A for all test data sheets, test setup pictures and test equipment used.

4.0 Conducted Emissions

4.1 Summary of Test Results

Conducted emissions were measured on the AC power input of the UUT over the frequency range from 150 kHz to 30 MHz. With the UUT configured in its normal operating mode, testing was performed with UUT powered from 115 Vac/60 Hz and 230 Vac/50 Hz. The input power to both the UUT and the support equipment was run through standard 50 Ω /50 uH line impedance stabilization networks (LISNs) which complied with the requirements of ANSI C63.4. Emissions were compared to both quasi-peak (QP) and average limits, with QP detection and averaging performed on the six highest signals.

115 Vac/60 Hz

Test result:CompliantMargin:13.85 dB @ 14.881 MHz

230 Vac/50 Hz

Test result:	Compliant
Margin:	13.25 dB @ 6.209 MHz

4.2 Test Setup

The UUT was set up in accordance with ANSI C63.4: 2003 and tested to the Class A, Group 1 limits specified in EN 55011 and FCC Part 18.

4.3 Special Configurations

Not applicable.

4.4 Deviations from Test Procedures

Not applicable.

4.5 Test Data

See APPENDICES B and C for all test data sheets, test setup pictures and test equipment used.

5.0 EN 61000-3-3: 1995 + A1 (01) + A2 (03) + A3 (06), Power Line Flicker

5.1 Summary of Test Results

Power line flicker from the UUT was measured on the system's AC power input. The power source was a 230 Vac/50 Hz source. Integral to the power source was the measurement hardware/firmware and flicker was recorded to the computer. Results are then imported via soft copy to the test data sheet.

The UUT complied with the flicker requirements of EN 61000-3-3.

5.2 Test Setup

The UUT was set up per EN 61000-3-3.

5.3 Special Configurations

N/A

5.4 Performance Criteria

Defined in EN 61000-3-3.

5.5 Deviations from Test Procedures

N/A

5.6 Test Data

See APPENDIX D for data sheets and test setup pictures.

5.7 Temperature and Humidity

Temperature, relative humidity and barometric pressure are located in the header table for the EN 61000-3-3 test data sheet.

APPENDIX A

Radiated Emissions Test Data



Radiated Emissions, CISPR / EN 55011

	Manu	facturer:	A Major Diffe	rence		Project Number:	A71127
Cus	tomer Repres	entative:	Neill Moroney			Test Area:	10 Meter
		Model:	IonCleanse Pre	emier		S/N:	08000
	Standard Ref	erenced:	EN 55011: 20	07		Date:	November 14, 2007
	Tem	perature:	22°C	Humidit	ty: 25%	Pressure:	844 mb
	Input	Voltage:	230Vac/50Hz				
(Configuration	of Unit:	Normal Operat	tion Mode #1			
	Test E	ingineer:	Tom Wittig				
A71127-	11-RE.doc	-					FR0100
Туре	Frequency	Level	Transducer	Gain / Loss	Final	Azm(deg)/Pol/Hgt(m)	Margin: EN55011
	(MHz)	(dBuV)	(dB / m)	(dB)	(dBuV/m)		Class B Group 1 QP
	. ,	, í	. ,		, ,		(dB)
QP	36.009	38.7	16.6	-29.7	25.7	6/V-Pole/1.00	4.34
QP	96.444	48.0	9.3	-30.0	27.2	132/V-Pole/4.00	2.75
QP	132.045	35.4	13.8	-29.8	19.4	138/V-Pole/2.98	10.56
QP	174.061	34.0	11.6	-29.4	16.1	148/V-Pole/1.20	13.86
QP	181.062	38.9	11.3	-29.5	20.8	123/V-Pole/1.20	9.24

The highest emission measured was at 96.444 MHz, which was 2.75 dB below the limit.

-29.5

-29.2

"Type" refers to the type of measurement performed. The type of measurement made is based on the requirements of the particular standard:

19.8

28.8

131/V-Pole/1.30

114/V-Pole/4.00

• PK = Peak Measurement

38.0

40.0

- QP = Quasi-Peak Measurement
- AV = Video Average Measurement

11.3

18.0

- The "Final" emissions level is attained by taking the "Level" and adding the "Transducer" factor and the "Gain/Loss" factor. Final measurements are made with the Azimuth, Polarity, Height, and EUT Cables positioned for maximum radiation. If applicable, cables positions are noted in the test log.
- > The "Azm/Pol/Hgt" indicates the turn-table *azimuth*, the antenna *polarity*, and the antenna *height* where the maximum emissions level was measured.
- > The "Margin" is with reference to the emissions limit. A positive number indicates that the emission measurement is below the limit. A negative number indicates that the emission measurement exceeds the limit.

OP

OP

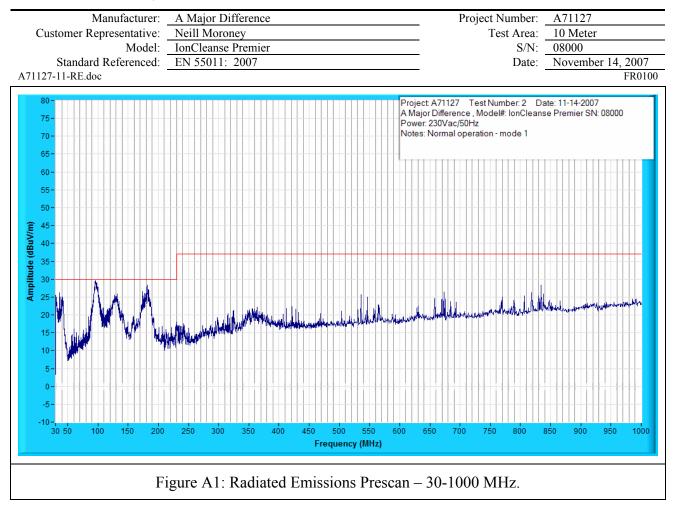
182.062

537.244

10.21

8.17



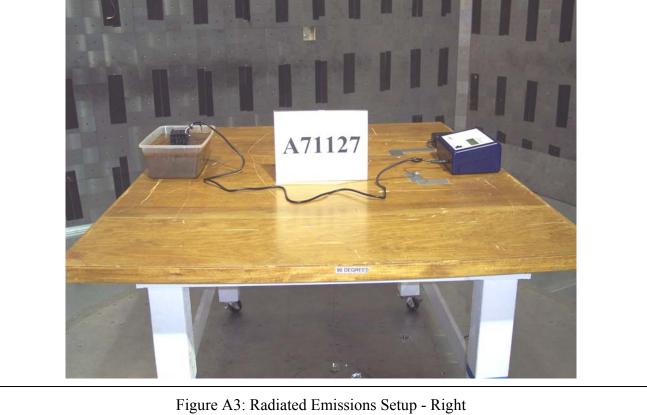




Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-RE.doc			FR0100
	Figure A2: Radiated Emissions Set	up - Front	

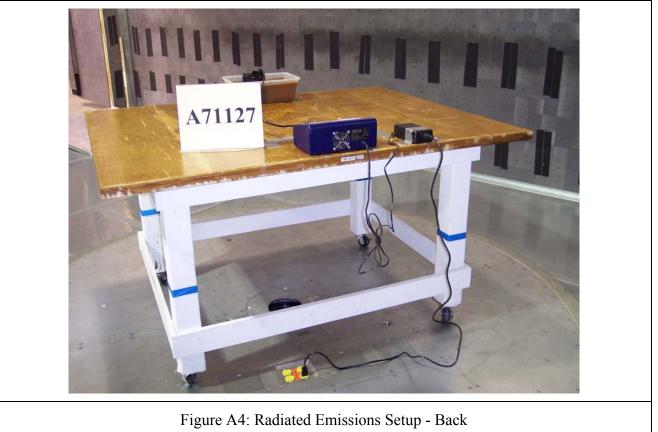


Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-RE.doc			FR0100



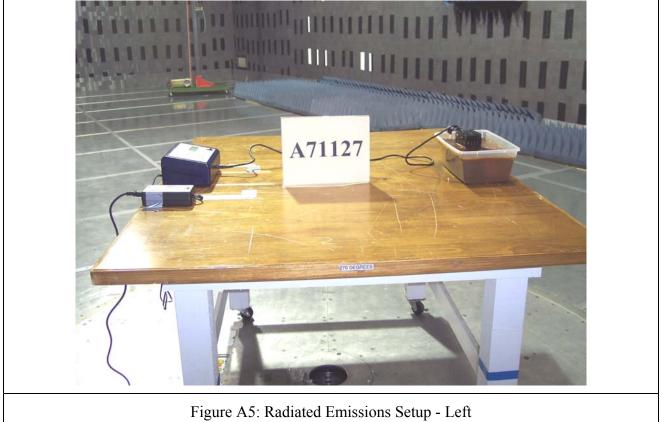


Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-RE.doc			FR0100





Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-RE.doc		_	FR0100





Radiated Emissions, CISPR / EN 55011

Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-RE.doc			FR0100

ID Number	Manufacturer	Model #	Serial #	Description	Cal Date	Cal Due
1092	Hewlett Packard	8495B	2522A10285	0 - 70 dB Step Attenuator	07/23/2007	07/23/2008
1220	Mini-Circuits	ZKL-2	062906	Preamp, 10 - 2000 MHz, 30 dB	02/02/2007	02/02/2008
1229	Hewlett Packard	85685A	3010A01077	RF Preselector	06/12/2007	06/12/2008
1231	Sunol Sciences	JB1	A071605-1	Bilog Antenna, 30 MHz to 2.0 GHz	10/12/2007	10/12/2008
1232	Sunol Sciences	JB1	A071605-2	Bilog Antenna, 30 MHz to 2.0 GHz	07/23/2007	07/23/2008
1233	Sunol Sciences	SC104V	110305-1	Positioning Controller	NA	NA
1234	CIR Enterprises	10m Chamber	001	10m Radiated Emissions Semi- Anechoic Chamber	05/05/2007	05/05/2008
1238	Sunol Sciences	TWR95-4	110305-3	Antenna Mast	NA	NA
1239	Sunol Sciences	FM2522VS	110305-2	Turn Table, 2.5m Diameter	NA	NA
1263	Hewlett Packard	8566B	3014A06873	Spectrum Analyzer, 100 Hz to 22 GHz	08/21/2007	08/21/2008
1264	Hewlett Packard	85662A	2848A18247	Spectrum Analyzer Display	08/21/2007	08/21/2008
1265	Hewlett Packard	85650A	2521A00641	Quasi-Peak Adapter	08/21/2007	08/21/2008

Test Equipment List

APPENDIX B

Conducted Emissions Test Data 115 Vac/60 Hz



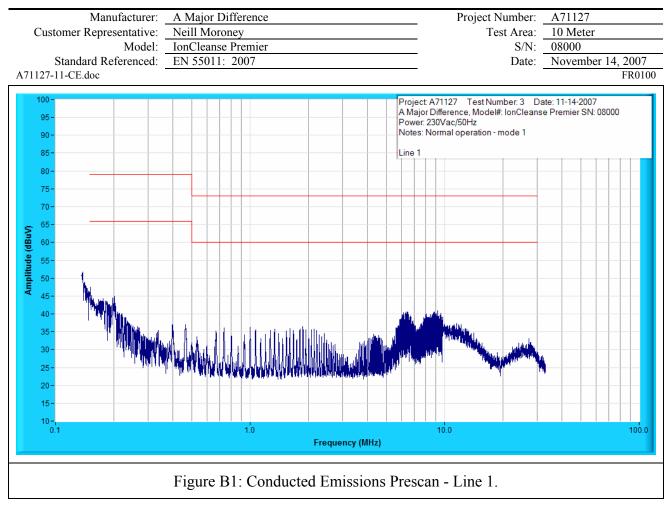
Conducted Emissions, CISPR / EN 55011

	Manu	facturer:	A Major Diffe	rence			Project Number:	A71127
Cus	stomer Repres	entative:	Neill Moroney	Neill Moroney			Test Area:	10 Meter
	1	Model:	IonCleanse Pro	IonCleanse Premier			S/N:	08000
	Standard Ref	erenced.	EN 55011 20	EN 55011: 2007			Date:	November 14, 2007
		perature:	20°C		y: 25%	<u> </u>		844mb
		Voltage:	115Vac/60Hz		y. <u>2570</u>		1 1055ure.	0 T IIIO
	Configuration		Normal Opera	tion Mode #1				
	e	ingineer:	Tom Wittig	tion wode #1				
471127	-11-CE.doc	ingineer.	Tom while					FR0100
Туре	Frequency	Level	Transducer	Gain / Loss	Final	Test Point	Margin: FCC Class	
A X 7	(MHz)	(dBuV)	(dB)	(dB)	(dBuV)	T 1	B AV (dB)	Class B QP (dB)
AV	0.159	10.6	3.8	10.0	24.4	Line 1	31.38	-
QP	0.159	23.7	3.8	10.0	37.5	Line 1	-	28.23
AV	0.269	18.8	2.1	10.0	30.8	Line 1	21.79	-
QP	0.269	20.6	2.1	10.0	32.6	Line 1	-	29.98
AV	1.145	17.6	1.3	10.0	29.0	Line 1	17.01	-
QP	1.145	19.7	1.3	10.0	31.1	Line 1	-	24.93
AV	1.888	18.9	1.6	10.0	30.4	Line 1	15.58	-
QP	1.888	21.1	1.6	10.0	32.7	Line 1	-	23.31
AV	4.586	19.2	1.6	10.0	30.8	Line 1	15.24	-
QP	4.586	22.5	1.6	10.0	34.1	Line 1	-	21.92
AV	9.650	26.4	1.4	10.0	37.8	Line 1	12.25	-
QP	9.650	29.2	1.4	10.0	40.7	Line 1	-	19.35
AV	0.152	11.8	3.9	10.0	25.6	Neutral	30.32	-
QP	0.152	27.0	3.9	10.0	40.9	Neutral	-	25.04
AV	0.202	14.5	3.3	10.0	27.8	Neutral	26.67	-
QP	0.202	21.2	3.3	10.0	34.5	Neutral	-	29.97
AV	0.269	12.6	2.1	10.0	24.7	Neutral	27.93	-
QP	0.269	16.4	2.1	10.0	28.5	Neutral	-	34.13
AV	2.095	12.7	1.6	10.0	24.2	Neutral	21.76	-
QP	2.095	16.5	1.6	10.0	28.1	Neutral	-	27.92
AV	9.196	24.3	1.5	10.0	35.8	Neutral	14.16	-
QP	9.196	27.7	1.5	10.0	39.3	Neutral	-	20.75
AV	14.881	24.9	1.2	10.0	36.1	Neutral	13.85	-
QP	14.881	28.4	1.2	10.0	39.6	Neutral	-	20.39

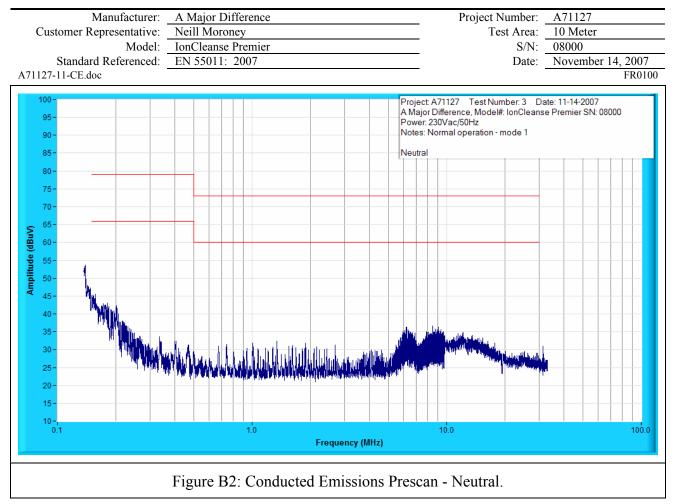
The highest emission measured was at 14.881 MHz, which was 13.85 dB below the limit.

- "Type" refers to the type of measurement performed. The type of measurement made is based on the requirements of the particular standard:
 - PK = Peak Measurement
 - QP = Quasi-Peak Measurement
 - AV = Video Average Measurement
- The "Final" emissions level is attained by taking the "Level" and adding the "Transducer" factor and the "Gain/Loss" factor.
- > The "TestPoint" indicates which AC or DC input power line or which I/O cable the measurement was made on.
- The "Margin" is with reference to the emissions limit. A positive number indicates that the emission measurement is below the limit. A negative number indicates that the emission measurement exceeds the limit.











Conducted Emissions, CISPR / EN 55011

Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-CE.doc			FR0100

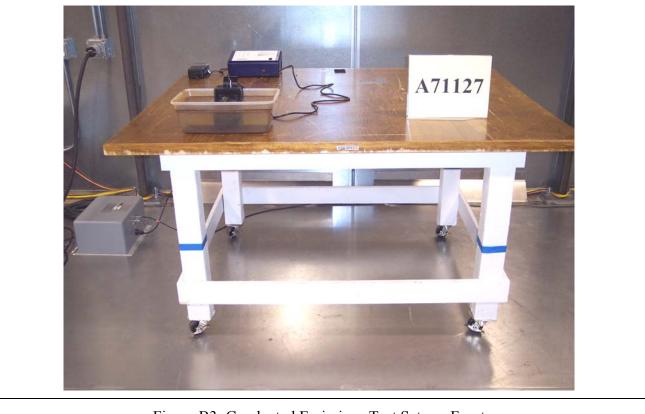


Figure B3: Conducted Emissions Test Setup - Front



Conducted Emissions, CISPR / EN 55011

Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-CE.doc			FR0100



Figure B4: Conducted Emissions Test Setup - Right



Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-CE.doc			FR0100



Figure B5: Conducted Emissions Test Setup - Back



Conducted Emissions, CISPR / EN 55011

Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-CE.doc			FR0100



Figure B6: Conducted Emissions Test Setup - Left



Conducted Emissions, CISPR / EN 55011

Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-CE.doc			FR0100

ID Number	Manufacturer	Model #	Serial #	Description	Cal Date	Cal Due
1194	Solar	9252-50-R-24- BNC	042012	LISN	04/20/2007	04/20/2008
1201	Agilent Technology	11947A	3107A03807	Transient Limiter, 9 kHz to 200 MHz	01/04/2007	01/04/2008
1213	Solar	7930-100	885210	High Pass Filter, fc: 100kHz, - 100dB @ 33kHz	04/20/2007	06/20/2008
1229	Hewlett Packard	85685A	3010A01077	RF Preselector	06/12/2007	06/12/2008
1263	Hewlett Packard	8566B	3014A06873	Spectrum Analyzer, 100 Hz to 22 GHz	08/21/2007	08/21/2008
1264	Hewlett Packard	85662A	2848A18247	Spectrum Analyzer Display	08/21/2007	08/21/2008
1265	Hewlett Packard	85650A	2521A00641	Quasi-Peak Adapter	08/21/2007	08/21/2008

Test Equipment List

APPENDIX C

Conducted Emissions Test Data 230 Vac/50 Hz



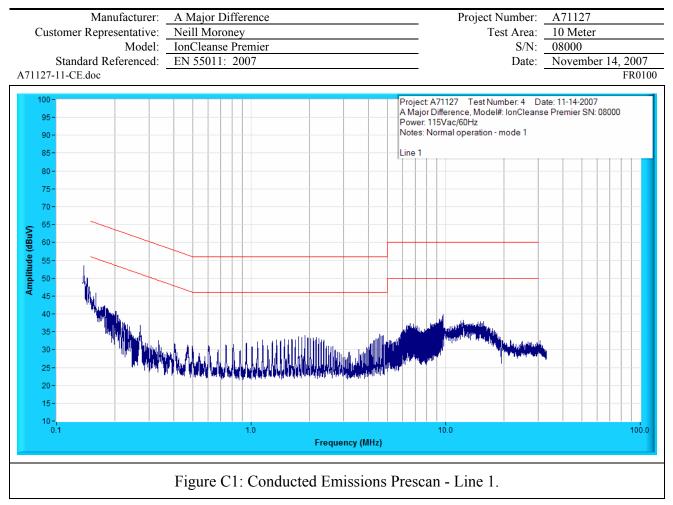
Conducted Emissions, CISPR / EN 55011

	Manu	facturer:	A Major Diffe	rence			Project Number:	A71127
Cus	stomer Repres	entative:	Neill Moroney	Neill Moroney			Test Area:	10 Meter
		Model:	IonCleanse Premier				S/N:	08000
	Standard Ref	erenced:	ed: EN 55011: 2007			Date:	November 14, 2007	
		perature:	20°C	Humidit	v: 25%			844mb
		Voltage:	230Vac/50Hz		y. <u>2370</u>			511110
	Configuration		Normal Opera	tion Mode #1				
	U	-		uon mode #1				
471127	1 est E -11-CE.doc	ingineer:	Tom Wittig					FR0100
Туре	Frequency	Level	Transducer	Gain / Loss	Final	Test Point	Margin: EN55011	Margin: EN55011
	(MHz)	(dBuV)	(dB)	(dB)	(dBuV)		Class B Group 1 & 2 AV (dB)	Class B Group 1 & 2 QP (dB)
AV	0.199	25.1	3.4	10.0	38.6	Line 1	16.04	- 2 QI (ub)
OP	0.199	27.0	3.4	10.0	40.4	Line 1	-	24.17
ÂV	0.400	22.1	1.7	10.0	33.8	Line 1	15.06	-
QP	0.400	22.7	1.7	10.0	34.4	Line 1	-	24.44
AV	0.468	21.9	1.6	10.0	33.5	Line 1	13.44	-
QP	0.468	23.0	1.6	10.0	34.5	Line 1	-	22.36
AV	0.738	22.6	1.5	10.0	34.0	Line 1	11.95	-
QP	0.738	23.6	1.5	10.0	35.1	Line 1	-	20.88
AV	1.876	24.8	1.6	10.0	36.3	Line 1	9.69	-
QP	1.876	24.6	1.6	10.0	36.1	Line 1	-	19.88
AV	6.306	28.8	1.6	10.0	40.4	Line 1	9.60	-
QP	6.306	31.5	1.6	10.0	43.1	Line 1	-	16.92
AV	0.202	19.4	3.4	10.0	32.7	Neutral	21.82	-
QP	0.202	23.3	3.4	10.0	36.6	Neutral	-	27.89
AV	0.336	14.3	1.9	10.0	26.2	Neutral	24.48	-
QP	0.336	16.8	1.9	10.0	28.6	Neutral	-	32.05
AV	0.404	16.5	1.7	10.0	28.2	Neutral	20.55	-
QP	0.404	18.2	1.7	10.0	29.9	Neutral	-	28.82
AV	1.349	16.2	1.4	10.0	27.7	Neutral	18.35	-
QP	1.349	18.4	1.4	10.0	29.8	Neutral	-	26.25
AV	6.209	25.1	1.6	10.0	36.8	Neutral	13.25	-
QP	6.209	26.7	1.6	10.0	38.3	Neutral	-	21.66
AV	8.440	22.1	1.6	10.0	33.7	Neutral	16.30	-
QP	8.440	25.9	1.6	10.0	37.5	Neutral	-	22.48

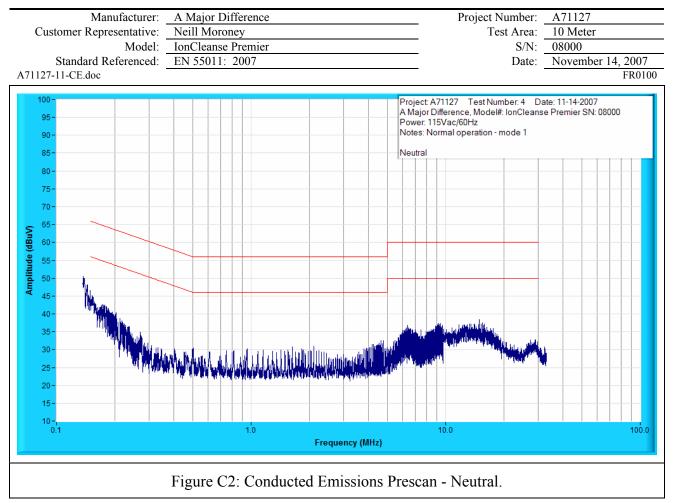
The highest emission measured was at 6.209 MHz, which was 13.25 dB below the limit.

- "Type" refers to the type of measurement performed. The type of measurement made is based on the requirements of the particular standard:
 - PK = Peak Measurement
 - QP = Quasi-Peak Measurement
 - AV = Video Average Measurement
- The "Final" emissions level is attained by taking the "Level" and adding the "Transducer" factor and the "Gain/Loss" factor.
- > The "TestPoint" indicates which AC or DC input power line or which I/O cable the measurement was made on.
- The "Margin" is with reference to the emissions limit. A positive number indicates that the emission measurement is below the limit. A negative number indicates that the emission measurement exceeds the limit.



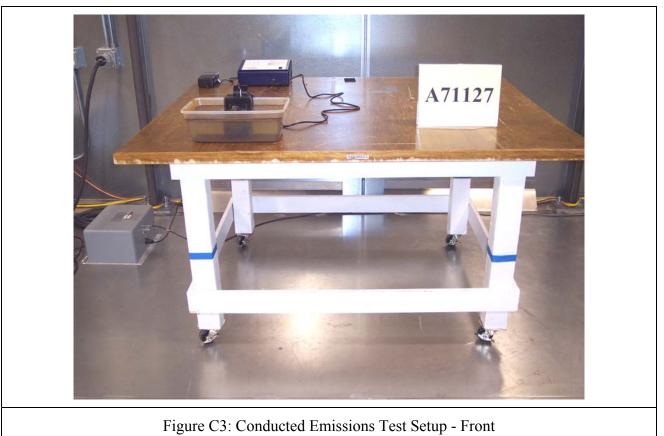








Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-CE.doc			FR0100





Conducted Emissions, CISPR / EN 55011

Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-CE.doc			FR0100



Figure C4: Conducted Emissions Test Setup - Right



Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-CE.doc			FR0100



Figure C5: Conducted Emissions Test Setup - Back



Conducted Emissions, CISPR / EN 55011

Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-CE.doc			FR0100

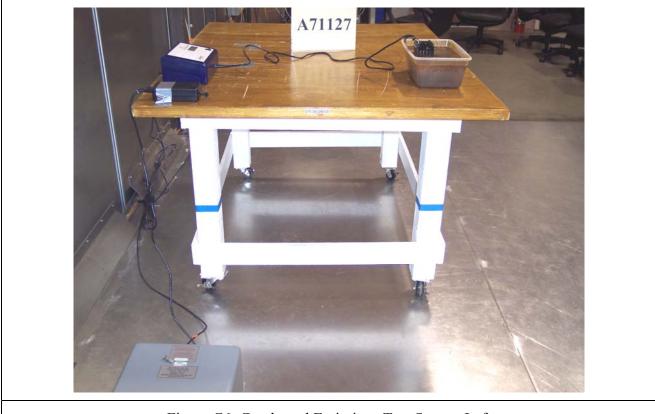


Figure C6: Conducted Emissions Test Setup - Left



Conducted Emissions, CISPR / EN 55011

Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	10 Meter
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 55011: 2007	Date:	November 14, 2007
A71127-11-CE.doc			FR0100

ID	Manufacturer	Model #	Serial #	Description	Cal Date	Cal Due
Number						
1194	Solar	9252-50-R-24- BNC	042012	LISN	04/20/2007	04/20/2008
1201	Agilent Technology	11947A	3107A03807	Transient Limiter, 9 kHz to 200 MHz	01/04/2007	01/04/2008
1213	Solar	7930-100	885210	High Pass Filter, fc: 100kHz, - 100dB @ 33kHz	04/20/2007	06/20/2008
1229	Hewlett Packard	85685A	3010A01077	RF Preselector	06/12/2007	06/12/2008
1263	Hewlett Packard	8566B	3014A06873	Spectrum Analyzer, 100 Hz to 22 GHz	08/21/2007	08/21/2008
1264	Hewlett Packard	85662A	2848A18247	Spectrum Analyzer Display	08/21/2007	08/21/2008
1265	Hewlett Packard	85650A	2521A00641	Quasi-Peak Adapter	08/21/2007	08/21/2008

Test Equipment List

APPENDIX D

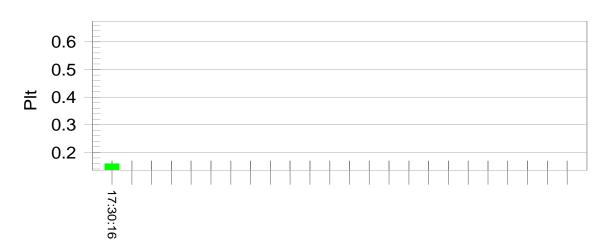
AC Power Line Flicker Test Data



AC Power-Line Flicker per IEC / EN 61000-3-3

Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Toject Number: Test Area:	GP 2
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 61000 -6-1 : 2007	Date:	November 29, 2007
Temperature:	21°C Humidity: 32%	Pressure:	834 mb
Input Voltage:	230VAC/50Hz		
Configuration of Unit:	Normal Operation Mode #1		
Test Engineer:	Tom Wittig		
A71127-3-3.doc			FR0100
	Flicker Test Summary per EN/IEC6100		
EUT: IonCleanse Premier Test category: All paramet Test date: 11/29/2007 Test duration (min): 120 Comment: A71127 Customer: A Major Differe	Start time: 3:29:51 PM Data file name: F-000022.cts_data	Tested by: Tom Wittig Test Margin: 100 End time: 5:30:17 PM	
Test Result: Pass	Status: Test Completed		
Pst _i and limit line		European	Limits
Pst; and limit line		European	Limits
		European	Limits
1.00		European	Limits
		European	Limits
1.00		European	Limits
1.00		European	Limits
1.00 0.75		European	Limits
1.00 0.75 0.50		European	Limits
1.00 0.75			Limits
1.00 0.75 0.50			
1.00 0.75 0.50 0.25			
1.00 0.75 0.50 0.25	- 16:2 - 16:2		
1.00 0.75 0.50 0.25			

Plt and limit line



Parameter values recorded during the test:

Vrms at the end of test (Volt):	230.27			
Highest dt (%):	0.00	Test limit (%):	3.30	Pass
Time(mS) > dt:	0.0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	0.00	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.160	Test limit:	1.000	Pass
Highest Plt (2 hr. period):	0.160	Test limit:	0.650	Pass



AC Power-Line Flicker per IEC / EN 61000-3-3

Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	GP 2
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 61000 -6-1 : 2007	Date:	November 29, 2007
A71127-3-3.doc			FR0100



Figure D1. AC Power Line Flicker Test Setup.



AC Power-Line Flicker per IEC / EN 61000-3-3

Manufacturer:	A Major Difference	Project Number:	A71127
Customer Representative:	Neill Moroney	Test Area:	GP 2
Model:	IonCleanse Premier	S/N:	08000
Standard Referenced:	EN 61000 -6-1 : 2007	Date:	November 29, 2007
A71127-3-3.doc			FR0100

- ••• • ·							
ID Number	Manufacturer	Model #	Serial #	Description	Cal Date	Cal Due	
Tumber							
1153	California	PACS-1	72229	Harmonics and Flicker Measuring	01/06/2007	01/06/2008	
	Instruments			Network			
1185	California	CTS 3.0	NA	CTS V3.0.15, Application	NA	NA	
	Instruments			program for Harmonics and			
1026	California	5001iX	55638	AC Power Source, 5kVA	NA	NA	
	Instruments						
1206	Extech	445715	252866	Hygro-Thermometer	03/06/2007	03/06/2008	

Test Equipment List

APPENDIX E

Product Data Sheet



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1736 Vista View Drive | Longmont, CO 80504 | tel: 303.776.7249 | fax: 303.776.7314 | info@emcintegrity.com

1.0 Client Information

Client Information	
Manufacturer Name	A Major Difference
Address	10235 S. Progress Way, Units 7 & 8
City	Parker
State	Colorado
Zip Code	80134
Client Representative	Neill Moroney
Title	
Phone	303-840-8206
Fax	303-840-8320
Email	rwalker@stargeteinternational.com

2.0 Product Information - General

Product Infor	mation	-			
Product Name (a	as it should appear on test report)	IonClea	nse Premier		
Model Number		IonCleanse Premier			
Functional descr	ription of product	Vitality Enhancement System			
Product type (IT	, Medical, Scientific, Industrial, etc.)	Household			
Is the product an	n intentional radiator	No			
Product Dimens	ions	12 x 8 x	. 4		
Product Weight		< 10 lbs			
Will fork lift be	required	No			
Applicable Stan	dards, if known	Generic	(61000-6-1 / EN	55011Grp 1 Cla	ss A)
Describe all env used	ironment(s) where product will be	Househ	old/non medical p	ractitioners	
	nsist of multiple components? (If yes, each system component)	Yes – Power Supply (external), Main Box and Array			
Cycle time > 3 s	econds? (If yes, How long?)	No			
Highest internal	ly generated frequency	4 MHz			
Product Set-up	Гime	< 15 minutes			
Boot up time in down	the event of an unintentional power	< 5 min	utes		
Identify all I/O	Connections as well as maximum associa	ated cable	lengths below		
Model No.	Description		Shielded?	Length	Quantity
	Array Cable			2 ft (approx)	1



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3.0 Power

Power Requirements	Power Requirements				
Input Voltage Rating as it appears on unit, power supply, or power brick	External Brick (SinPro model MPU50-107) 100-240 Vac, 47-63 Hz				
Input Current (specify @ 230 Vac/50 Hz)	1.35 A				
Single or Multi-Phase (If multi-phase, specify delta or wye)	Single Phase				
Is input power connector two-prong (Hot & Neutral) or 3-prong (H, N, Ground)	3 Prong grounded				
Does UUT have more than 1 power cord? (If yes, explain.)	No				

4.0 Unit Under Test (UUT) – Detailed Information

UUT Hardwa	UT Hardware						
Condition		New – P	roduction Li	ne			
Configuration	n	Mode 1 f	for 60 minute	es, with sali	nity level set to approx. 2.0 Amps		
Input Power		230 Vac					
UUT Compo	onents						
Name	Mode	l No.	Serial	l No.	Description		
P/S	MPU5			-	External Sinpro AC/DC Converter.		
Main Box	IonCle Pren		080	00	Main control box for IonCleanse Premier		
Array		-		_	Array to be immersed in water solution		
I/O Cabling							
See Section 2	.0 for det	ails					
UUT Softwa	re/Firmv	vare					
Name	V	version/R	evision		Functionality		
		5A0	5	Custom software to control parameters (Time, sample rate, etc) of			
		0110	0		product		
UUT Operat			1				
List all freque		product		4 MHz			
generates/uses		araiaad d	uring tast?	Modo 1			
How will product be exercised during test? How will product be monitored during			-	Mode 1			
test?			-	Display			
What are the p				No change			
Specify tolera	nce of all	critical p	arameters.	No Tolerar	nce		



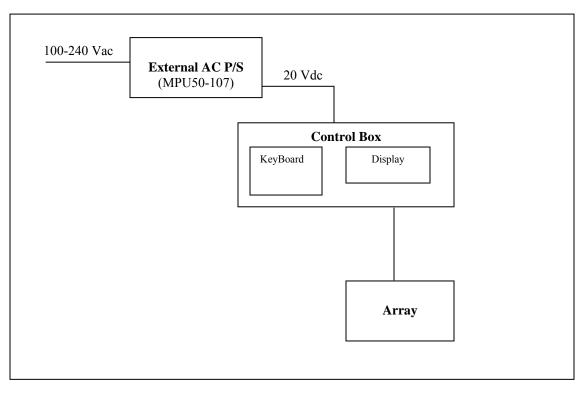
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5.0 Support Equipment (SE) – Detailed Information

Support Equ	ipment (SE)						
Name	Model No.	Seria	l No.		Descript	ion	
N/A	N/A	N	Ά		N/A		
SE I/O Cabli	ng			-			
Model No.		Desc	ription		Shielded?	Length	Quantity
N/A		<u> </u>	N/A		N/A	N/A	N/A
SE Software	/Firmware						-
Name	Version/H	Revision]	Functionality		
N/A	N/2	4			N/A		

6.0 Block Diagram



(Must be completed prior to testing).

APPENDIX F

EMI Test Log



EMI Test Log

Manufacturer:	A Major Difference	Project Number:	A71127	
Model:	IonCleanse	S/N:	08000	
Customer Representative:	Neill Moroney			
Standard Referenced:	EN61000-6-1 & EN55011/FCC Part 15			
			FI	R0105

Test	Test	Date	Event	Time	Result	Initials
1 651	Code	Date	Event	(hrs)	Acsult	muar
RE	1152	November 14,	Test #1, 30-1000 MHz, 8 rads, 4 heights, 3 second dwell	(III S)		
TLL	1102	2007	Normal operation – mode 3			
		2007	Mode 3, saw spermatic broadband noise spikes occurred due to			
			units relay switching from negative to positive modes			
			Test #2, 30-1000 MHz, 8 rads, 4 heights, 3 second dwell	2.0	Pass	TW
			Normal operation – mode 1	2.0	1 455	1
CE	2151		Test#3: 150kHz – 30MHz, 230VAC/50Hz	1.0	Pass	KJ
CL	2341		Test#4: 150kHz – 30MHz, 115VAC/50Hz	1.0	Pass	KJ
4-3	5008	November 21,	Performed RI from 80-1000MHz @ 3V/m (230VAC/50Hz)	8.0	1 455	BN
4-3	5008	2007	Ŭ , , , , , , , , , , , , , , , , , , ,	0.0		DIN
			Front Side V-Pole At 465MHz EUT operational state changes to			
			High Temp Overheat State, EUT requires reboot.			
			Disconnected the Array and retested on Front Side V-pole at			
			465MHz and EUT still goes into an error.			
			Modification required for compliance – Original software			
			(Revision 5A04) was designed to set alarm state for 1 single			
			instance of temperature reading above 180°F. Product			
			modified to incorporate software Revision 5A05 to require			
			product to maintain temperature reading above 180°F for 150			
			consecutive seconds before proceeding to alarm state.			
			Performed RI from 80-1000MHz @ 3V/m (230VAC/50Hz)			
			On Front Side and Right Side at about 85-88MHz EUT resets itself.			
			On Right Side H-Pole EUT is being retuned at 86MHz from + to -			
			With the keypad ribbon cable disconnected EUT does not have any errors.			
			Modification required for compliance: Added a Ferrite to the			
			keypad ribbon cable and Ran EUT up to 100MHz and it passed			
			up to that point. H-Pole Right Side.			
			Removed ferrite and reran Right Side H-pole at 85 MHz EUT			
			resets itself. (X2)			
			Put ferrite back on keypad ribbon cable reran Right Side H-pole,			
			ran up to 100MHz and EUT did not have an errors.			
			Completed RI on the Right Side H-pole.			
4-6	4612	November 26,	Performed CI @ 3Vrms (230VAC/50Hz).	2.0	Pass	BN
- -0	-	2007		2.0	1 435	DIV
4-4	4401		Performed EFT (230VAC/50Hz).	1.0	Pass	BN
4-11	4101		Performed PQF (230VAC/50/60Hz).	1.0	Pass	BN
4-11	4190		Performed PQF (230VAC/50/60Hz).	0.0	Pass	BN
			At 0% at 250 Cycles 50Hz and 0% at 300 Cycles 60Hz: EUT had			
			to be restarted after every test.			
4-5	4515		Performed Surge (230VAC/50Hz)	5.0	Pass	BN
4-2	4223		Performed ESD (230VAC/50Hz)	3.0	Pass	BN
			Figure A3, Figure A4, Figure A5, Figure A6 and Figure A7: No Air Discharges			



EMI Test Log

Manufacturer:	A Major Difference	Project Number:	A71127	
Model:	IonCleanse	S/N:	08000	
Customer Representative:	Neill Moroney			
Standard Referenced:	EN61000-6-1 & EN55011/FCC Part 15			
			FR010:	5

						110105
Test	Test	Date	Event	Time	Result	Initials
	Code			(hrs)		
			Figure A3: Figure A4 and Figure A5: No Contact Discharges.			
			Figure A6 and Figure A7: Contact Discharges at +/-4kV Only.			
4-3	4344	November 29,	Performed RF Immunity, 80-1000 MHz	4.0	Pass	TW
		2007				
4-3	4391		Performed RF Immunity, 1400-2000 MHz	1.0	Pass	TW
4-3	4391		Performed RF Immunity, 2000-2700 MHz	1.0	Pass	TW
3-2	3302		Performed Flicker	2.0	Pass	TW

APPENDIX G

Laboratory Accreditations



Nemko Laboratory Authorization Authorization: ELA 215

EMC Laboratory:	EMC Integrity, Inc. 1736 Vista View Drive
	Longmont, Colorado 80504 USA

Scope of Authorization: Authorization: All CENELEC standards [ENs] for EMC that are listed on the accompanying page, and all of the corresponding CISPR, IEC and ISO EMC standards that are listed on the accompanying page.

Nemko has assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against <u>ISO/IEC 17025</u> or equivalent. The laboratory also fulfils the conditions described in Nemko Document <u>NLA -10</u>. During the visit by the Nemko representative it was found that the Laboratory is capable of performing tests within the Scope of the Authorisation.

Accordingly, Nemko will normally accept test results from the laboratory on a partial or complete basis for certification of the products.

In order to maintain the Authorisation, the information given in the pertinent NLA-10 must be carefully followed. Nemko is to be promptly notified about any changes in the situation at the Laboratory, which may affect the basis for this Authorisation. The Authorisation may be withdrawn at any time if the conditions are no longer considered to be fulfilled.

The Authorisation is valid through December 31, 2008.

Dallas, Texas, USA. For and on behalf of Nemko AS:

Katerlin

T.B. Ketterling, **V** Nemko ELA Co-ordinator Region: North America

 Nemko AS
 Gaustadalléen 30
 P.O.Box 73 Blindern
 N-0314 Oslo
 Norway
 T +47 22 96 03 30
 F +47 22 96 05 50
 Enterprise number NO974404532

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Nemko Laboratory Authorization Authorization: ELA 215

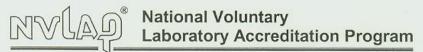
SCOPE OF AUTHORIZATION

Capability to perform a basic test implies also that any product (family) standard calling up this basic test is also within the scope if mentioned below or not.

Ge	neric & Product – Family Stan	dards
EN 55011 :1998+A1 :1999 +A2 :2002 CISPR 11:1997 (Modified) + A1:1999 + A2:2002 CISPR 11 Ed. 4.1	EN 55014-1:2000 + A1:2001 + A2:2002 CISPR 14-1:2000 + A1:2001 + A2:2002 CISPR 14-1 Ed. 5.0	EN 55022: 1998+ A1:2000, +A2:2003 CISPR 22: 2003+ A1:2004 EN55022:2006 CISPR 22:2005 (Modified)
	EN 55014-2:1997 + A1:2001 CISPR 14-2:1997 + A1:2001 CISPR 14-2 Ed. 1.1	CISPR 22 Ed. 5.2
EN 55024: 1998 +A1:2001, +A2:2003 CISPR 24: 1997 +A1:2001, +A2:2002 CISPR 24 Ed. 1.0	EN 61000-6-1 :2007 IEC 61000-6-1 Ed. 2.0 EN 61000-6-1: 2001	EN 61000-6-2:2005 IEC 61000-6-2 Ed. 2.0
EN 61000-6-3 :2007 EC 61000-6-3 Ed. 2.0 EN 61000-6-3: 2001 + A1 :2004	IEC 61000-6-2 Ed. 2.0 EN 61000-6-2: 2005 IEC 61000-6-2: 2005 EN 61000-6-2: 2001	EN 61326:1997 +A1:1998 + A2:2001 +A3:2003 IEC 61326:1997 + A1:1998 + A2:2000 IEC 61326:2002-02
EN 60601-1-2:2001 EC 60601-1-2:2001	EN 55103-1:1996 EN 55103-2 :1996	EN 300 386 V.1.3.1 EN 300 386 V.1.3.3
EN 60601-1-2:2006 EC 60601-1-2 Ed. 2.1		
EN 61000-3-3: 1995, +A1:2001 +A2:2005 IEC 61000-3-3: 1994, +A1:2001 +A2:2005	EN 61000-3-2: 2000 +A2 :2005 IEC 61000-3-2: 2000 (Modified) +A1:2001 +A2:2004	BLANK
	Basic Standards	
EN 61000-4-2:1995, +A1:1998, +A2:2000 IEC 61000-4-2:1995, +A1:1998, +A2:2000 IEC 61000-4-2 Ed. 1.2	EN 61000-4-3:2002, +A1:2002 IEC 61000-4-3:2002, +A1:2002 EN 61000-4-3 :2006 +A1 :2006 +A2 :2006 IEC 61000-4-3 Ed. 3,0	EN 61000-4-4:1995, +A1:2002, +A2:2002 IEC 61000-4-4:1995, +A1:2000, +A2:2001 EN 61000-4-4:2004 IEC 61000-4-4 Ed. 2.0
EN 61000-4-5:1995, +A1:2001 IEC 61000-4-5:1995, +A1:2000 EN 61000-4-5:2006 IEC 61000-4-5 Ed. 2.0	EN 61000-4-6:1996, +A1:2001 IEC 61000-4-6:1996, +A1:2000 EN 61000-4-6 : 2006 IEC 61000-4-6 Ed. 2.2	EN 61000-4-8:1994,+A1:2001 IEC 61000-4-8:1994,+A1:2001 IEC 61000-4-8 Ed. 1.1
EN 61000-4-11:2004 IEC 61000-4-11 Ed. 2.0 EN 61000-4-11:1994, +A1:2000 IEC 61000-4-11:1994, +A1:2000	BLANK	BLANK

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NLA 3 ED3





SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMC Integrity, Inc. 1736 Vista View Drive Longmont, CO 80504 Mr. Vincent W. Greb Phone: 303-776-7249 Fax: 303-776-7314 E-Mail: vinceg@emcintegrity.com URL: http://www.emcintegrity.com

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200737-0

NVLAP Code Designation / Description

Emissions Tes	st Methods:
12/100063c	IEC 61000-6-3 (1996), EN 61000-6-3 (2001), A1 (2004): Electromagnetic Compatibility (EMC) - Part 6: Generic standards - Section 3: Emission standard for residential, commercial, and light-industrial environments.
12/CIS11f	AS/NZS CISPR 11 (2002): Industrial, scientific and medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
12/CIS1 <mark>1</mark> g	IEC/CISPR 11, Ed. 4.1 (2004-06): Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurements
12/CIS11h	AS/NZS CISPR 11 (2004): Industrial, scientific and medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
12/CIS11i	IEC/CISPR 11, Ed. 4.1 (2004-06) + A1(2004): Industrial, scientific and medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement

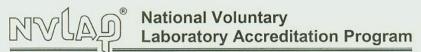
2007-07-01 through 2008-06-30

Effective dates

D. Buce

For the National Institute of Standards and Technology

Page 1 of 6





NVLAP LAB CODE 200737-0

NVLAP Code	Designation / Description
12/CIS11j	EN 55011 (1998) + A1(1999), A2(2002): Industrial, scientific and medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
12/CIS11k	IEC/CISPR 11 (2003), EN 55011 (1998), A2(2002): Limits and Methods of Measurement of Electromagnetic Disturbance Characteristics of Industrial, Scientific, and Medical Radio-Frequency Equipment
12/CIS14b1	AS/NZS CISPR 14-1 (2003): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
12/CIS14x	IEC/CISPR 14-1, Ed. 4 (2003): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
12/CIS22	IEC/CISPR 22 (1997) & EN 55022 (1998) + A1(2000): Limits and methods of measurement of radio disturbance characteristics of information technology equipment
12/CIS22a	IEC/CISPR 22 (1993) and EN 55022 (1994): Limits and methods of measurement of radio disturbance characteristics of information technology equipment, Amendment 1 (1995) and Amendment 2 (1996)
12/CIS22a4	IEC/CISPR 22 (1993) & EN 55022 (1994)+A1(1995), A2(1997): Limits and methods of measurement of radio disturbance characteristics of information technology equipment
12/CI\$22b	CNS 13438 (1997): Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment
12/CIS22e	IEC/CISPR 22, Fourth Edition (2003-04) & EN 55022 (1998): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/CIS22c1	IEC/CISPR 22, Edition 5 (2005) and EN 55022 (1998): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement

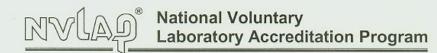
2007-07-01 through 2008-06-30 Effective dates

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Page 2 of 6

- 20





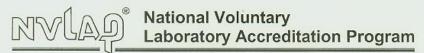
NVLAP LAB CODE 200737-0

NVLAP Code	Designation / Description
12/CIS22c3	IEC/CISPR 22, Edition 5 (2005) + A1(2005): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/CIS22c4	EN 55022 (1998) + A1(2000) + A2(2003): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/EM02d	IEC 61000-3-2, Edition 2.2 (2004-11): Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <= 16 A per phase)
12/EM03b	IEC 61000-3-3, Edition 1.1(2002-03) & EN 61000-3-3, A1(2001): EMC - Part 3-3; Limits - Limitations of voltage changes, voltage flucuations and flicker, in public low-voltage supply-systems, for equipment with rated current <=16 A per phase and not subject to conditional connections
12/EM03g	IEC 61000-3-3, Edition 1.1 (2003) +A2 (2005): EMC Part 3-3: Limits - Limitations of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connections
12/F18	FCC OST/MP-5 (1986): FCC Methods of Measurement of Radio Noise Emissions for ISM Equipment (cited in FCC Method 47 CFR Part 18 - Industrial, Scientific, and Medical Equipment)
12/FCC15b	ANSI C63.4 (2003) with FCC Method 47 CFR Part 15, Subpart B: Unintentional Radiators
12/KN22	KN22 with RRL Notice No. 2005-82 (Sept. 29, 2005): RRL Notice No. 2005-82: Technical Requirements for Electromagnetic Interference Annex 8 (KN-22), RRL Notice No. 2005-131: Conformity Assessment Procedures for Electromagnetic Interference
12/T51	AS/NZS CISPR 22 (2002) and AS/NZS 3548 (1997): Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment
12/VCCla	VCCI: Agreement of Voluntary Control Council for Interference by Information Technology Equipment - Technical Requirements: V-3/2005.04

2007-07-01 through 2008-06-30

Effective dates

For the National Institute of Standards and Technology





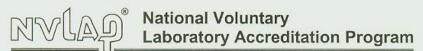
NVLAP LAB CODE 200737-0

NVLAP Code	Designation / Description
Immunity Test	Methods:
12/610006h	IEC 61000-6-1, 2nd edition (2005-03): Electromagnetic compatibility (EMC) - Part 6: Generic standards - Section 1: Immunity for residential, commercial and light-industrial environments
12/610006i	IEC 61000-6-2, Edition 2.0 (2005-01): Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
12/I01b	IEC 61000-4-2 (2001); EN 61000-4-2 (2001), A2 (2001): Electrostatic Discharge Immunity Test
12/I01c	EN 61000-4-2 +A1(1998) +A2(2001): Electrostatic Discharge Immunity Test
12/І02Ь	IEC/EN 61000-4-3, Ed. 2.1 (2002), A1 (2002); EN 61000-4-3: Radiated, radio-frequency, electromagnetic field immunity test
12/I02e	EN 61000-4-3 (2002) + A1(2002) + IS1(2004): Radiated, radio-frequency, electromagnetic field immunity test
12/I02f	EN 61000-4-3 (2002) + A1(2002): Radiated, radio-frequency, electromagnetic field immunity test
12/I03c	IEC 61000-4-4, Ed. 2.0 (2004-07): Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test
12/I04b	IEC 61000-4-5 (2001), A1(2000); EN 61000-4-5(2001), A1(2000): Surge Immunity Test
12/I05d	IEC 61000-4-6, Ed. 2.1 (2004); EN 61000-4-6: Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
12/I05e	EN 61000-4-6 (1996) + A1 (2001) + IS1(2004): Immunity to Conducted Disturbances, Induced by Radio Frequency Fields

2007-07-01 through 2008-06-30

Effective dates

For the National Institute of Standards and Technology





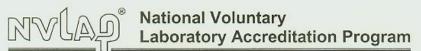
NVLAP LAB CODE 200737-0

NVLAP Code	Designation / Description
12/I06b	IEC 61000-4-8 (2001), A1(2000); EN 61000-4-8 (2001),A1(2000): Power Frequency Magnetic Field Immunity Test
12/I06c	EN 61000-4-8 (1993) + A1 (2001): Power Frequency Magnetic Field Immunity Test
12/I07c	IEC 61000-4-11, Ed. 2 (2004-03) & EN 61000-4-11: Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests
12/I07e	EN 61000-4-11 (1994), A1 (2001): Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests
12/I07f	EN 61000-4-11 (2004): Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests
12/KN11a	KN 61000-4-11 with RRL Notice No. 2005-130 (Dec 27, 2005): Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests
12/KN24	KN24 (December 2005) with RRL Notice No. 2005-83: Information Technology Equipment - immunity charateristics - limits and methods of measurements
12/KN2a	KN 61000-4-2 with RRL Notice No. 2005-130 (Dec. 27, 2005): Electrostatic Discharge Immunity Test
12/KN3a	KN 61000-4-3 with RRL Notice No. 2005-130 (Dec. 27, 2005): Radiated, radio-frequency, electromagnetic field immunity test
12/KN4a	KN 61000-4-4 with RRL Notice No. 2005-130 (Dec. 27, 2005): Electromagnetic compatibility (EMC): Testing and measurement techniques - Electrical Fast Transient/Burst Immun
12/KN5a	KN 61000-4-5 with RRL Notice No. 2005-130 (Dec. 27, 2005): Surge Immunity Test
12/KN6a	KN 61000-4-6 with RRL Notice No. 2005-130 (Dec. 27, 2005): Electromagnetic compatibility (EMC): Testing and measurement techniques - Immunity to conducted disturbances,

2007-07-01 through 2008-06-30 Effective dates

For the National Institute of Standards and Technology

Page 5 of 6





ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 200737-0

NVLAP Code Designation / Description

12/KN8a

KN 61000-4-8 with RRL Notice No. 2005-130 (Dec. 27, 2005): Power Frequency Magnetic Field Immunity Test

2007-07-01 through 2008-06-30

Effective dates

Page 6 of 6

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	2007-07-01 through 2008-06-30 Effective dates Effective dates For the National Institute of Standards and Technology	is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for: ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).	EMIC Integrity, Inc. Longmont, CO	Certificate of Accreditation to ISO/IEC 17025:2005	National Institute of Standards and Lechnology R	United States Department of Commerce
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