

InFocus Corporation

PBM

Report No. INFO0377

Report Prepared By



www.nwemc.com
1-888-EMI-CERT

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EMC Test Report

Certificate of Test
Last Date of Test: May 18, 2009
InFocus Corporation
Model: PBM

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Field Strength of Fundamental	FCC 15.249:2009	ANSI C63.4:2003	Pass
Field Strength of Spurious Emissions	FCC 15.249:2009	ANSI C63.4:2003	Pass
AC Power Line Conducted Emissions	FCC 15.207:2009 Class B	ANSI C63.4:2003	Pass
Occupied Bandwidth	RSS-Gen:2007	RSS-Gen:2007	Pass
AC Power Line Conducted Emissions	RSS-Gen:2007	RSS-Gen:2007	Pass
Receiver Spurious Emissions	RSS-Gen:2007	RSS-Gen:2007	Pass

Modifications made to the product
See the Modifications section of this report

Test Facility

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
 22975 NW Evergreen Parkway, Suite 400
 Hillsboro, OR 97124

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada(Site filing #2834D-2).

Approved By:

 Don Fecteau, IS Manager



NVLAP Lab Code: 200630-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test.

Revision Number	Description	Date	Page Number
00	None		

FCC: Accredited by NVLAP for performance of FCC radio, digital, and ISM device testing. Our Open Area Test Sites, certification chambers, and conducted measurement facilities have been fully described in reports filed with the FCC and accepted by the FCC in letters maintained in our files. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by the FCC as a Telecommunications Certification Body (TCB). This allows Northwest EMC to certify transmitters to FCC specifications in accordance with 47 CFR 2.960 and 2.962.



NVLAP: Northwest EMC, Inc. is accredited under the United States Department of Commerce, National Institute of Standards and Technology, and National Voluntary Laboratory Accreditation Program for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 2004/108/EC, and ANSI C63.4. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.



NVLAP LAB CODE 200629-0
 NVLAP LAB CODE 200630-0
 NVLAP LAB CODE 200676-0
 NVLAP LAB CODE 200761-0

Industry Canada: Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS-Gen, Issue 2 and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements. (*Site Filing Numbers - Hillsboro: 2834D-1, 2834D-2, Sultan: 2834C-1, Irvine: 2834B-1, 2834B-2*)



CAB: Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement.



NEMKO: Assessed and accredited by NEMKO (Norwegian testing and certification body) for European emissions and immunity testing. As a result of NEMKO's laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification (Authorization No. ELA 119).



Australia/New Zealand: The National Association of Testing Authorities (NATA), Australia has been appointed by the ACA as an accreditation body to accredit test laboratories and competent bodies for EMC standards. Accredited test reports or assessments by competent bodies must carry the NATA logo. Test reports made by an overseas laboratory that has been accredited for the relevant standards by an overseas accreditation body that has a Mutual Recognition Agreement (MRA) with NATA are also accepted as technical grounds for product conformity. The report should be endorsed with the respective logo of the accreditation body (NVLAP).



VCCI: Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. (*Registration Numbers. - Hillsboro: C-1071, R-1025, C-2687, T-289, and R-2318, Irvine: R-1943, C-2766, and T-298, Sultan: R-871, C-1784, and T-294.*)



BSMI: Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement (US0017). License No.SL2-IN-E-1017.



GOST: Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification



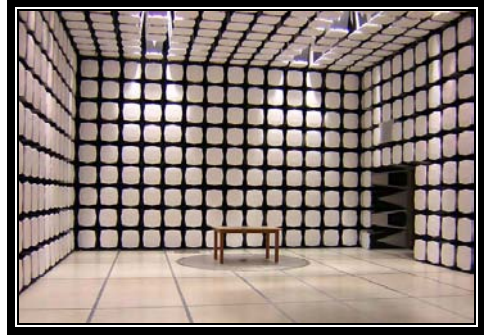
KCC: Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157*)



SCOPE

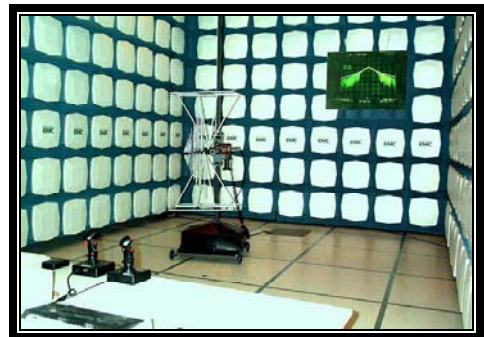
For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/accreditations/>



**California – Orange County Facility
Labs OC01 – OC13**

41 Tesla Ave. Irvine, CA 92618
(888) 364-2378 Fax: (503) 844-3826



**Oregon – Evergreen Facility
Labs EV01 – EV11**

22975 NW Evergreen Pkwy. Suite 400 Hillsboro, OR 97124
(503) 844-4066 Fax: (503) 844-3826



**Washington – Sultan Facility
Labs SU01 – SU07**

14128 339th Ave. SE Sultan, WA 98294
(888) 364-2378

Party Requesting the Test

Company Name:	InFocus Corporation
Address:	27500 SW Parkway Ave.
City, State, Zip:	Wilsonville, OR 97070-9215
Test Requested By:	Cindy Wong
Model:	PBM
First Date of Test:	April 27, 2009
Last Date of Test:	May 18, 2009
Receipt Date of Samples:	April 27, 2009
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

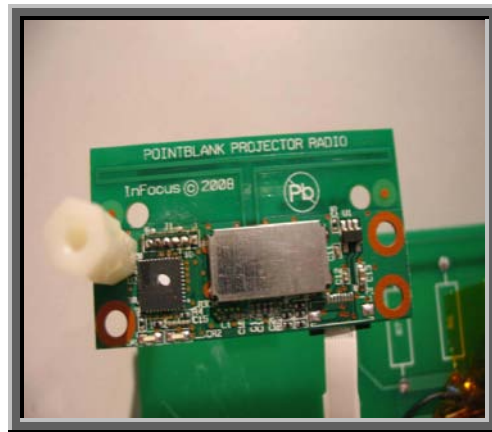
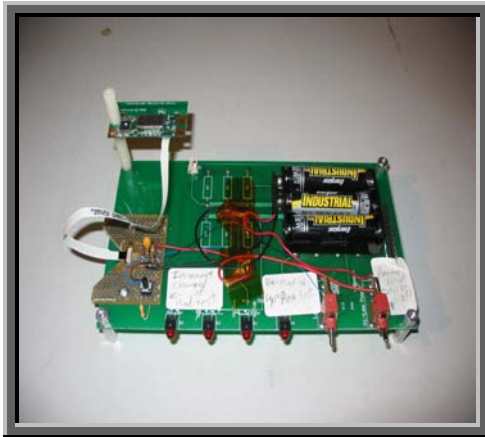
Functional Description of the EUT (Equipment Under Test):

2.4 GHz radio module to be used with a projector.

Testing Objective:

Seeking modular approval under 15.249 and RSS-Gen

EUT Photo



CONFIGURATION 1 INFO0377

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
LiteBoard Radio Module	InFocus Corporation	PBM	None

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Host	InFocus Corporation	None	None

CONFIGURATION 5 INFO0377

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
LiteBoard Radio Module	InFocus Corporation	PBM	None

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Host	InFocus Corporation	None	None
Power Supply	Tektronix, Inc.	PS280	TW60580

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Mains	No	1.8m	No	Power Supply	AC Mains
Power x2	No	0.5m	No	Host	Power Supply
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	4/29/2009	Field Strength of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	5/4/2009	Field Strength of Harmonics	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	5/6/2009	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
4	5/6/2009	AC Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
5	5/18/2009	Receiver Spurious Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Rx, Mid Channel

POWER SETTINGS INVESTIGATED

Battery

FREQUENCY RANGE INVESTIGATED

Start Frequency	30MHz	Stop Frequency	18GHz
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SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVI	5/14/2008	13
Antenna, Horn	ETS	3160-08	AIA	NCR	0
EV12 Cables		Standard Gain Horn Cables	EVU	5/14/2008	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVH	5/14/2008	13
Antenna, Horn	ETS	3160.07	AHZ	10/14/2008	24
Pre-Amplifier	Miteq	AMF-3D00100800-32-13P	AVF	6/17/2008	13
Antenna, Horn	ETS	3115	AIB	8/25/2008	24
EV12 Cables		Bilog Cables	EVS	6/17/2008	13
Pre-Amplifier	Miteq	AM-1616-1000	AVM	6/17/2008	13
Antenna, Biconilog	EMCO	3141	AXG	11/4/2008	13
Spectrum Analyzer	Agilent	E44440A	AFA	11/14/2008	12

MEASUREMENT BANDWIDTHS

	Frequency Range	Peak Data	Quasi-Peak Data	Average Data
	(MHz)	(kHz)	(kHz)	(kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. The measurement uncertainty estimation is available upon request.

TEST DESCRIPTION

The EUT was configured for mid channel receive frequency. The spectrum was scanned through out the range specified in RSS-Gen. RSS GEN defines the start frequency for receiver spurious emissions as 30MHz and the stop frequency the 3rd harmonic of the highest tuneable receive frequency. Unwanted emissions were measured to demonstrate compliance. While scanning, emissions from the EUT were maximized by rotating the EUT 360 degrees, measuring the EUT in three orthogonal axis, and adjusting the measurement antenna height and polarization between 1 and 4 meters. A preamp was used for this test in order to provide sufficient measurement sensitivity.

EUT: PBM	Work Order: INFO0377
Serial Number: None	Date: 05/18/09
Customer: InFocus Corporation	Temperature: 22
Attendees: None	Humidity: 37%
Project: None	Barometric Pres.: 29.97
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
RSS-Gen:2007	RSS-Gen:2007

TEST PARAMETERS	
Antenna Height(s) (m)	1 - 4
Test Distance (m)	3

COMMENTS

None

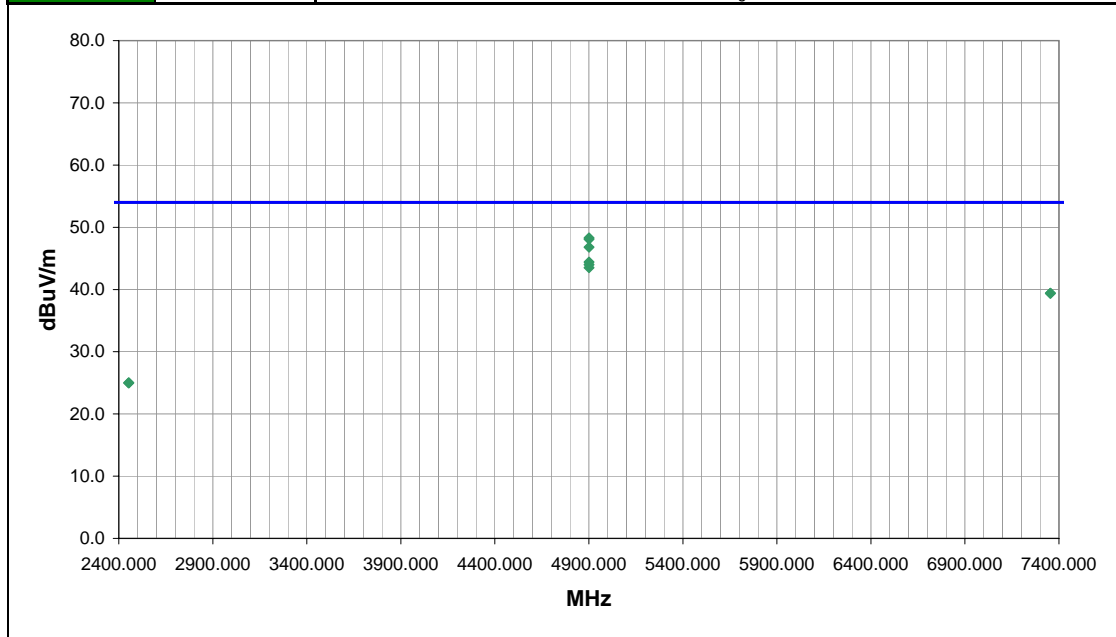
EUT OPERATING MODES

Rx_Mid Channel

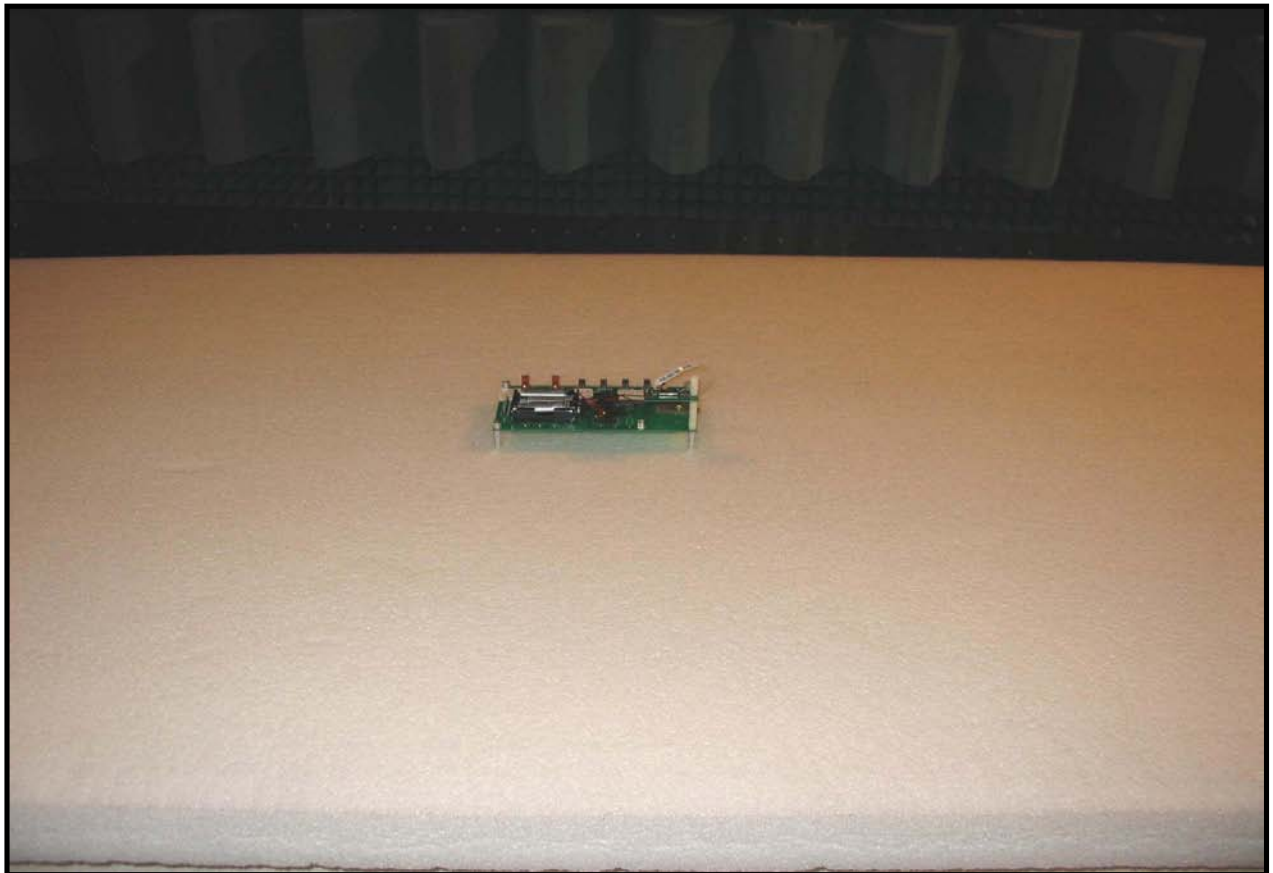
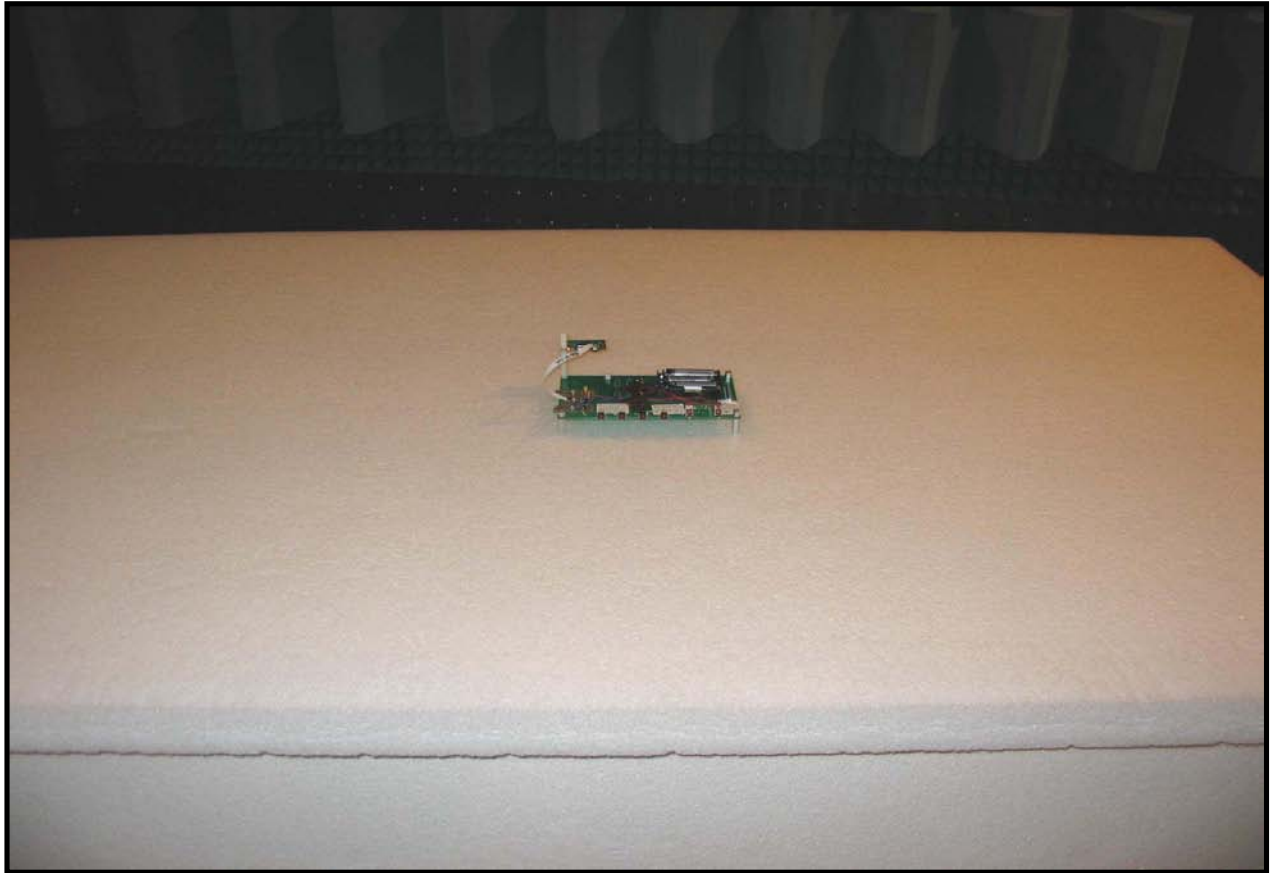
DEVIATIONS FROM TEST STANDARD

No deviations.

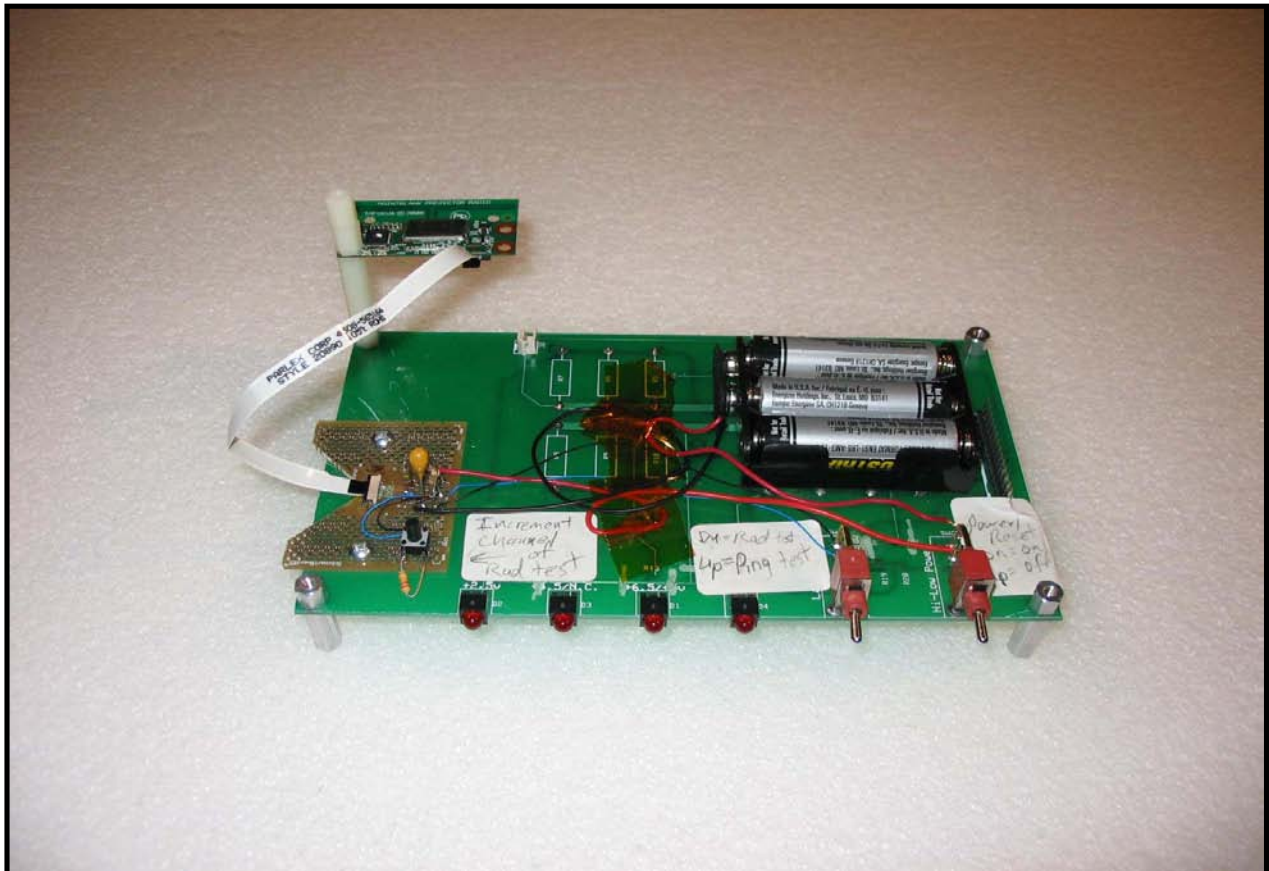
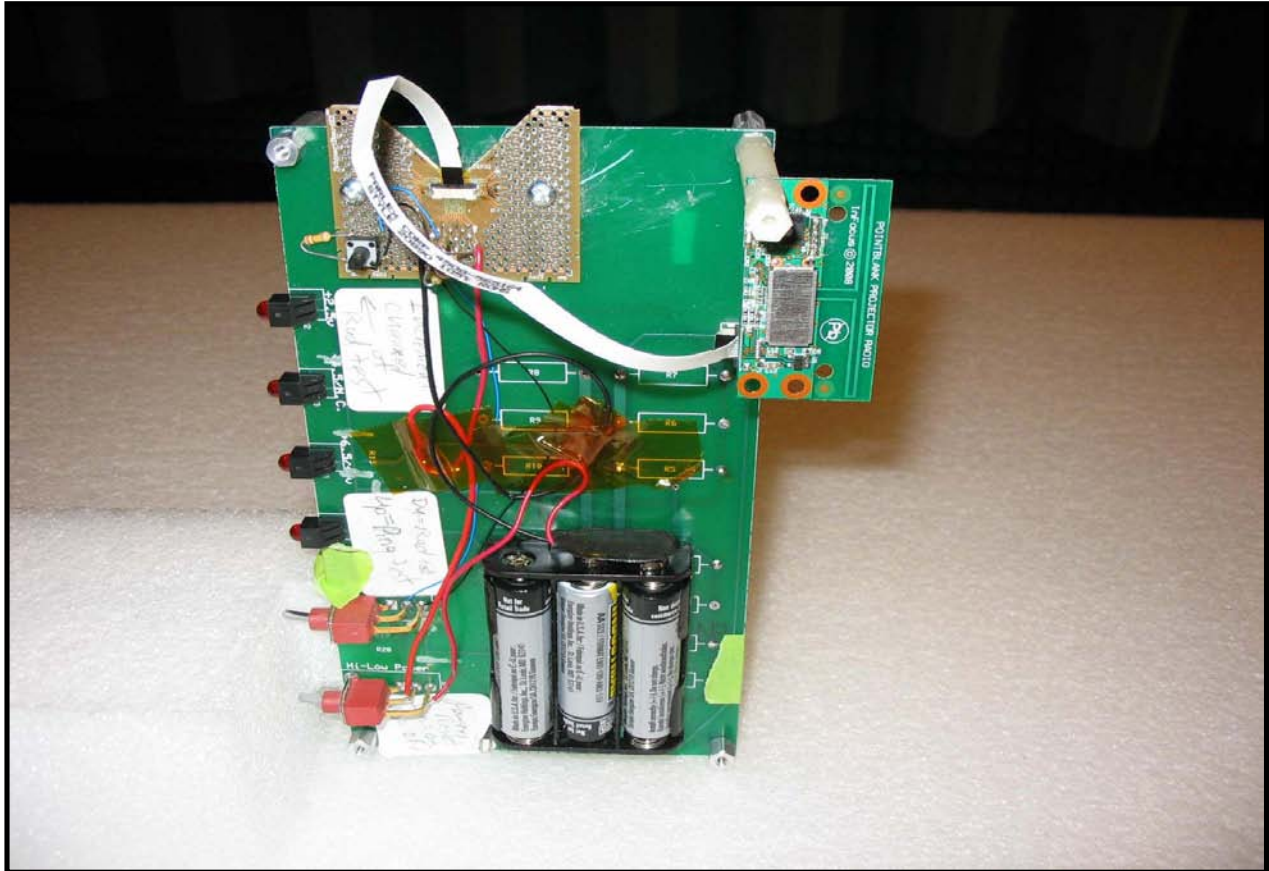
Run #	15	 Signature
Configuration #	1	
Results	Pass	



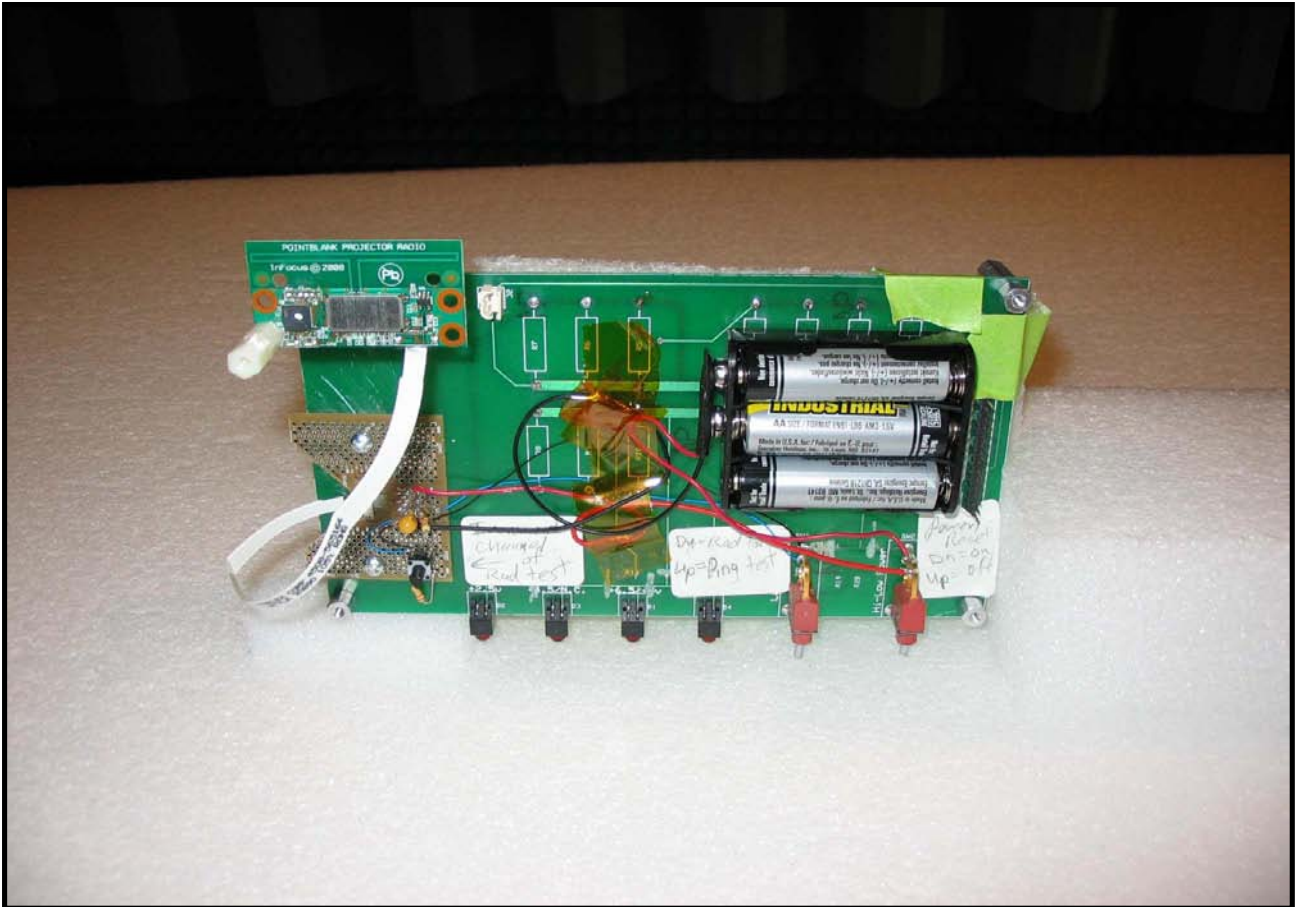
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
4900.763	41.0	7.3	354.0	1.0	3.0	0.0	V-Horn	AV	0.0	48.3	54.0	-5.7	EUT on side.
4900.757	40.8	7.3	16.0	1.2	3.0	0.0	H-Horn	AV	0.0	48.1	54.0	-5.9	EUT vertical.
4900.774	39.5	7.3	4.0	1.2	3.0	0.0	H-Horn	AV	0.0	46.8	54.0	-7.2	EUT on side.
4900.763	37.1	7.3	253.0	1.8	3.0	0.0	V-Horn	AV	0.0	44.4	54.0	-9.6	EUT vertical.
4900.755	36.7	7.3	255.0	1.2	3.0	0.0	V-Horn	AV	0.0	44.0	54.0	-10.0	EUT horizontal.
4900.765	36.2	7.3	35.0	1.1	3.0	0.0	H-Horn	AV	0.0	43.5	54.0	-10.5	EUT horizontal.
7353.753	24.5	14.9	309.0	1.0	3.0	0.0	V-Horn	AV	0.0	39.4	54.0	-14.6	EUT on side.
7355.087	24.5	14.9	356.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.4	54.0	-14.6	EUT vertical.
2452.015	26.6	-1.6	151.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.0	54.0	-29.0	EUT on side.
2453.690	26.6	-1.6	10.0	3.4	3.0	0.0	H-Horn	AV	0.0	25.0	54.0	-29.0	EUT vertical.



Receiver Spurious Emissions



Receiver Spurious Emissions



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Rx, Mid Channel

POWER SETTINGS INVESTIGATED

120V/60Hz

CONFIGURATIONS INVESTIGATED

INFO0377 - 5

SAMPLE CALCULATIONS

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARH	8/28/2008	24 mo
High Pass Filter	T.T.E.	7766	HFG	2/23/2009	13 mo
Attenuator	Coaxicom	66702 2910-20	ATO	6/30/2008	13 mo
EV07 Cables		Conducted Cables	EVG	5/2/2008	13 mo
LISN	Solar	9252-50-R-24-BNC	LIR	2/4/2009	13 mo

MEASUREMENT BANDWIDTHS

	Frequency Range	Peak Data	Quasi-Peak Data	Average Data
	(MHz)	(kHz)	(kHz)	(kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4-2. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the middle channel in the operational band in a receive mode of operation. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.4-2003.

EMC

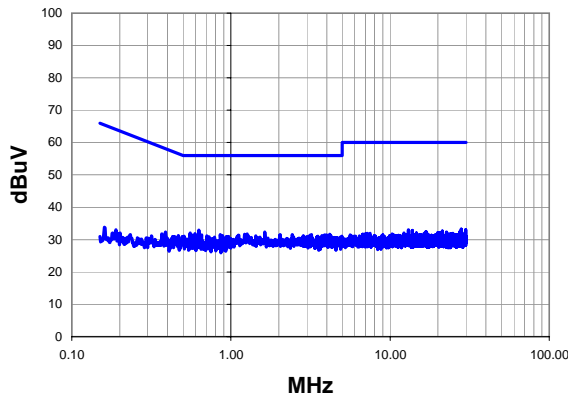
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INFO0377	Date:	05/06/09	<i>Jennifer Herrett</i> Tested by: Jennifer Herrett
Project:	None	Temperature:	21	
Job Site:	EV07	Humidity:	43	
Serial Number:	None	Barometric Pres.:	1016.4	
EUT:	PBM			
Configuration:	5 - Conducted Emissions - PBM			
Customer:	InFocus Corporation			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Rx, Mid Channel			
Deviations:	No deviations.			
Comments:	None			

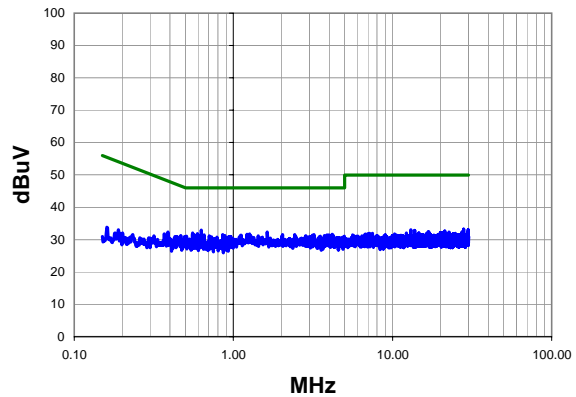
Test Specifications RSS-Gen:2007	Test Method RSS-Gen :2007
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Run #	19	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted ()	Spec. Limit ()	Compared to Spec. (dB)
0.629	12.1	20.8	32.9	56.0	-23.1
1.632	11.8	20.6	32.4	56.0	-23.6
0.555	11.2	20.9	32.1	56.0	-23.9
0.595	11.0	20.8	31.8	56.0	-24.2
1.264	11.2	20.6	31.8	56.0	-24.2
4.184	11.0	20.6	31.6	56.0	-24.4
2.040	11.0	20.6	31.6	56.0	-24.4
0.859	10.9	20.7	31.6	56.0	-24.4
3.200	10.9	20.6	31.5	56.0	-24.5
2.432	10.9	20.6	31.5	56.0	-24.5
0.655	10.7	20.8	31.5	56.0	-24.5
0.568	10.6	20.8	31.4	56.0	-24.6
3.992	10.8	20.6	31.4	56.0	-24.6
3.880	10.8	20.6	31.4	56.0	-24.6
1.112	10.8	20.6	31.4	56.0	-24.6
4.240	10.7	20.6	31.3	56.0	-24.7
0.619	10.5	20.8	31.3	56.0	-24.7
3.136	10.7	20.6	31.3	56.0	-24.7
0.884	10.6	20.7	31.3	56.0	-24.7
3.728	10.6	20.6	31.2	56.0	-24.8

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted ()	Spec. Limit ()	Compared to Spec. (dB)
0.629	12.1	20.8	32.9	46.0	-13.1
1.632	11.8	20.6	32.4	46.0	-13.6
0.555	11.2	20.9	32.1	46.0	-13.9
0.595	11.0	20.8	31.8	46.0	-14.2
1.264	11.2	20.6	31.8	46.0	-14.2
4.184	11.0	20.6	31.6	46.0	-14.4
2.040	11.0	20.6	31.6	46.0	-14.4
0.859	10.9	20.7	31.6	46.0	-14.4
3.200	10.9	20.6	31.5	46.0	-14.5
2.432	10.9	20.6	31.5	46.0	-14.5
0.655	10.7	20.8	31.5	46.0	-14.5
0.568	10.6	20.8	31.4	46.0	-14.6
3.992	10.8	20.6	31.4	46.0	-14.6
3.880	10.8	20.6	31.4	46.0	-14.6
1.112	10.8	20.6	31.4	46.0	-14.6
4.240	10.7	20.6	31.3	46.0	-14.7
0.619	10.5	20.8	31.3	46.0	-14.7
3.136	10.7	20.6	31.3	46.0	-14.7
0.884	10.6	20.7	31.3	46.0	-14.7
3.728	10.6	20.6	31.2	46.0	-14.8

EMC

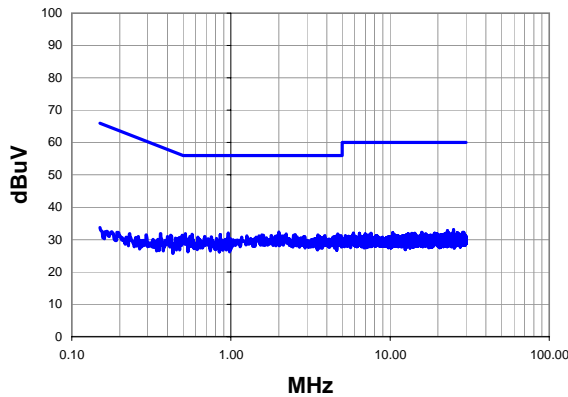
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INFO0377	Date:	05/06/09	<i>Jennifer Herrett</i> Tested by: Jennifer Herrett
Project:	None	Temperature:	21	
Job Site:	EV07	Humidity:	43	
Serial Number:	None	Barometric Pres.:	1016.4	
EUT:	PBM			
Configuration:	5 - Conducted Emissions - PBM			
Customer:	InFocus Corporation			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Rx, Mid Channel			
Deviations:	No deviations.			
Comments:	None			

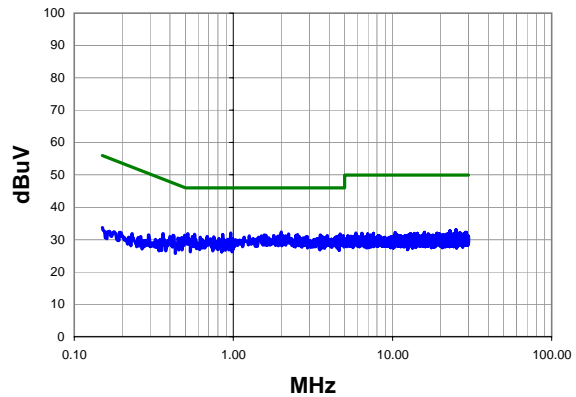
Test Specifications RSS-Gen:2007	Test Method RSS-Gen :2007
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Run #	20	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit

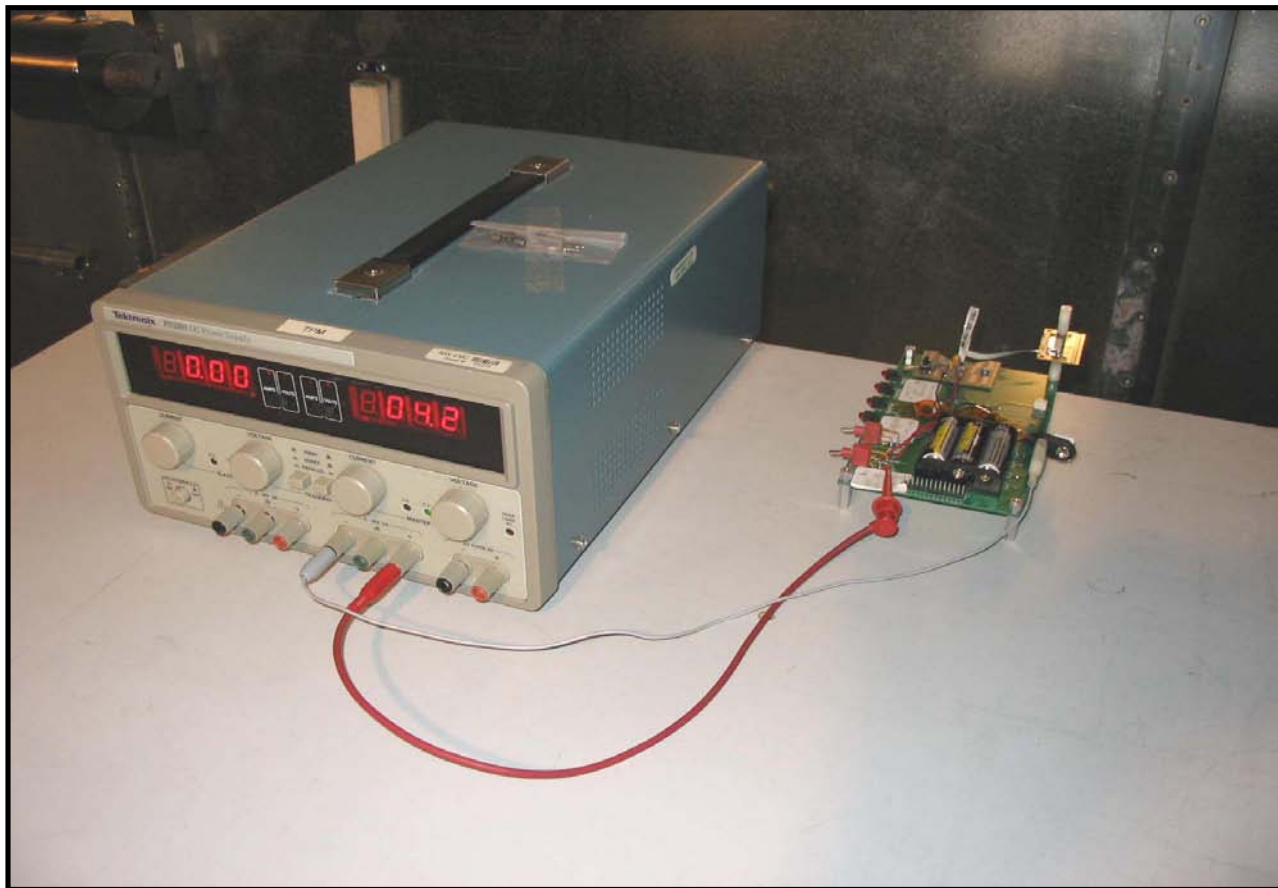


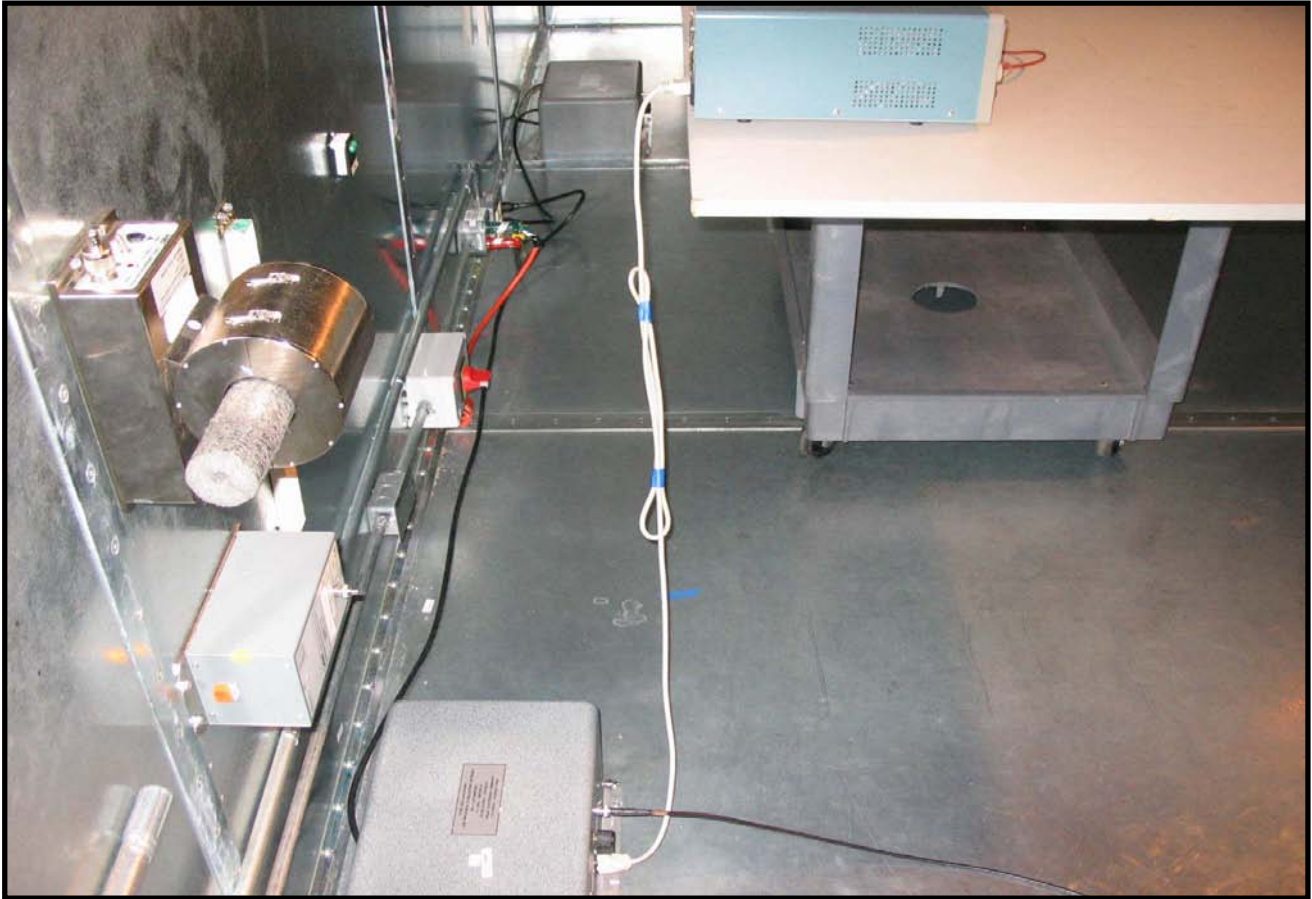
Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted ()	Spec. Limit ()	Compared to Spec. (dB)
2.000	11.7	20.6	32.3	56.0	-23.7
0.961	11.4	20.6	32.0	56.0	-24.0
0.517	11.0	20.9	31.9	56.0	-24.1
2.224	11.2	20.6	31.8	56.0	-24.2
4.696	11.1	20.6	31.7	56.0	-24.3
0.570	10.8	20.8	31.6	56.0	-24.4
0.857	10.9	20.7	31.6	56.0	-24.4
2.528	10.9	20.6	31.5	56.0	-24.5
1.568	10.9	20.6	31.5	56.0	-24.5
3.520	10.8	20.6	31.4	56.0	-24.6
1.960	10.8	20.6	31.4	56.0	-24.6
2.040	10.8	20.6	31.4	56.0	-24.6
1.600	10.8	20.6	31.4	56.0	-24.6
1.792	10.7	20.6	31.3	56.0	-24.7
4.920	10.6	20.6	31.2	56.0	-24.8
3.888	10.6	20.6	31.2	56.0	-24.8
1.256	10.6	20.6	31.2	56.0	-24.8
4.608	10.5	20.6	31.1	56.0	-24.9
3.592	10.4	20.6	31.0	56.0	-25.0
0.684	10.2	20.8	31.0	56.0	-25.0

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted ()	Spec. Limit ()	Compared to Spec. (dB)
2.000	11.7	20.6	32.3	46.0	-13.7
0.961	11.4	20.6	32.0	46.0	-14.0
0.517	11.0	20.9	31.9	46.0	-14.1
2.224	11.2	20.6	31.8	46.0	-14.2
4.696	11.1	20.6	31.7	46.0	-14.3
0.570	10.8	20.8	31.6	46.0	-14.4
0.857	10.9	20.7	31.6	46.0	-14.4
2.528	10.9	20.6	31.5	46.0	-14.5
1.568	10.9	20.6	31.5	46.0	-14.5
3.520	10.8	20.6	31.4	46.0	-14.6
1.960	10.8	20.6	31.4	46.0	-14.6
2.040	10.8	20.6	31.4	46.0	-14.6
1.600	10.8	20.6	31.4	46.0	-14.6
1.792	10.7	20.6	31.3	46.0	-14.7
4.920	10.6	20.6	31.2	46.0	-14.8
3.888	10.6	20.6	31.2	46.0	-14.8
1.256	10.6	20.6	31.2	46.0	-14.8
4.608	10.5	20.6	31.1	46.0	-14.9
3.592	10.4	20.6	31.0	46.0	-15.0
0.684	10.2	20.8	31.0	46.0	-15.0





Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Tx, High Channel
Tx, Mid Channel
Tx, Low Channel

POWER SETTINGS INVESTIGATED

120V/60Hz

CONFIGURATIONS INVESTIGATED

INFO0337 - 5

SAMPLE CALCULATIONS

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARH	8/28/2008	24 mo
High Pass Filter	T.T.E.	7766	HFG	2/23/2009	13 mo
Attenuator	Coaxicom	66702 2910-20	ATO	6/30/2008	13 mo
EV07 Cables		Conducted Cables	EVG	5/2/2008	13 mo
LISN	Solar	9252-50-R-24-BNC	LIR	2/4/2009	13 mo

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4-2. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.4-2003.

EMC

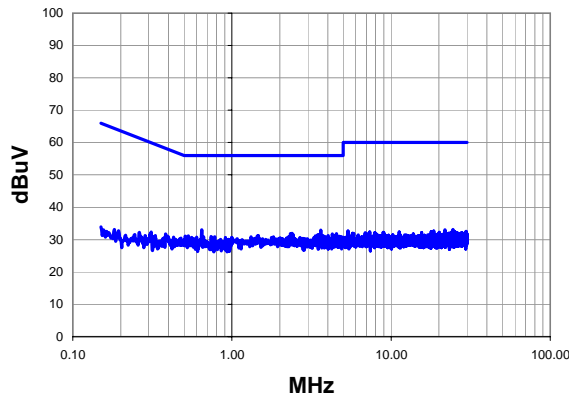
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INFO0377	Date:	05/06/09	<i>Jennifer Herrett</i> Tested by: Jennifer Herrett
Project:	None	Temperature:	21	
Job Site:	EV07	Humidity:	43	
Serial Number:	None	Barometric Pres.:	1016.4	
EUT:	PBM			
Configuration:	5 - Conducted Emissions - PBM			
Customer:	InFocus Corporation			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Tx, Low Channel			
Deviations:	No deviations.			
Comments:	None			

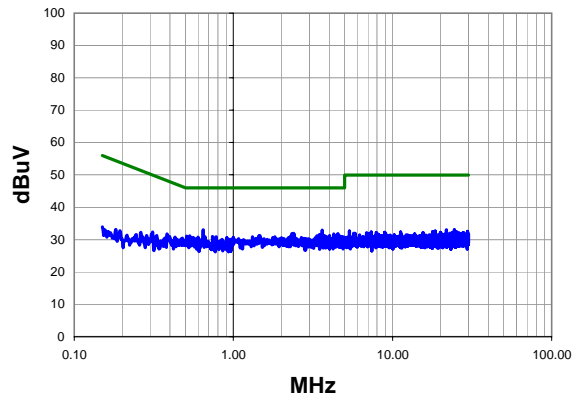
Test Specifications FCC 15.207:2009	Class B	Test Method ANSI C63.4:2003
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Run #	13	Line: High Line	Ext. Attenuation: 20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.646	12.2	20.8	33.0	56.0	-23.0
3.616	12.3	20.6	32.9	56.0	-23.1
2.384	11.3	20.6	31.9	56.0	-24.1
4.544	11.2	20.6	31.8	56.0	-24.2
4.280	11.1	20.6	31.7	56.0	-24.3
2.416	11.0	20.6	31.6	56.0	-24.4
3.536	10.9	20.6	31.5	56.0	-24.5
3.472	10.9	20.6	31.5	56.0	-24.5
4.448	10.7	20.6	31.3	56.0	-24.7
1.464	10.7	20.6	31.3	56.0	-24.7
4.016	10.6	20.6	31.2	56.0	-24.8
3.728	10.6	20.6	31.2	56.0	-24.8
0.533	10.3	20.9	31.2	56.0	-24.8
3.344	10.5	20.6	31.1	56.0	-24.9
0.509	10.2	20.9	31.1	56.0	-24.9
4.704	10.4	20.6	31.0	56.0	-25.0
2.272	10.4	20.6	31.0	56.0	-25.0
4.840	10.3	20.6	30.9	56.0	-25.1
0.740	10.2	20.7	30.9	56.0	-25.1
3.848	10.3	20.6	30.9	56.0	-25.1

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.646	12.2	20.8	33.0	46.0	-13.0
3.616	12.3	20.6	32.9	46.0	-13.1
2.384	11.3	20.6	31.9	46.0	-14.1
4.544	11.2	20.6	31.8	46.0	-14.2
4.280	11.1	20.6	31.7	46.0	-14.3
2.416	11.0	20.6	31.6	46.0	-14.4
3.536	10.9	20.6	31.5	46.0	-14.5
3.472	10.9	20.6	31.5	46.0	-14.5
4.448	10.7	20.6	31.3	46.0	-14.7
1.464	10.7	20.6	31.3	46.0	-14.7
4.016	10.6	20.6	31.2	46.0	-14.8
3.728	10.6	20.6	31.2	46.0	-14.8
0.533	10.3	20.9	31.2	46.0	-14.8
3.344	10.5	20.6	31.1	46.0	-14.9
0.509	10.2	20.9	31.1	46.0	-14.9
4.704	10.4	20.6	31.0	46.0	-15.0
2.272	10.4	20.6	31.0	46.0	-15.0
4.840	10.3	20.6	30.9	46.0	-15.1
0.740	10.2	20.7	30.9	46.0	-15.1
3.848	10.3	20.6	30.9	46.0	-15.1

EMC

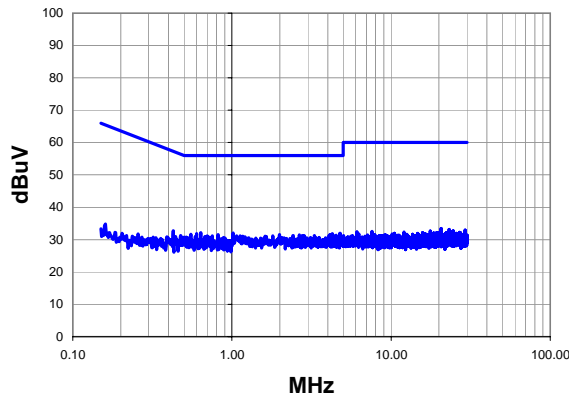
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INFO0377	Date:	05/06/09	<i>Jennifer Herrett</i> Tested by: Jennifer Herrett
Project:	None	Temperature:	21	
Job Site:	EV07	Humidity:	43	
Serial Number:	None	Barometric Pres.:	1016.4	
EUT:	PBM			
Configuration:	5 - Conducted Emissions - PBM			
Customer:	InFocus Corporation			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Tx, Low Channel			
Deviations:	No deviations.			
Comments:	None			

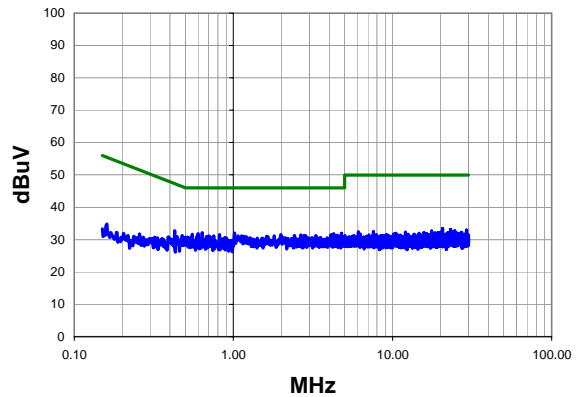
Test Specifications FCC 15.207:2009	Class B	Test Method ANSI C63.4:2003
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Run #	14	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.636	11.3	20.8	32.1	56.0	-23.9
1.016	11.5	20.6	32.1	56.0	-23.9
4.776	11.3	20.6	31.9	56.0	-24.1
4.264	11.2	20.6	31.8	56.0	-24.2
0.599	11.0	20.8	31.8	56.0	-24.2
0.551	10.8	20.9	31.7	56.0	-24.3
1.992	11.0	20.6	31.6	56.0	-24.4
0.816	10.9	20.7	31.6	56.0	-24.4
4.144	10.9	20.6	31.5	56.0	-24.5
0.427	11.8	20.9	32.7	57.3	-24.6
2.648	10.8	20.6	31.4	56.0	-24.6
4.512	10.7	20.6	31.3	56.0	-24.7
3.296	10.6	20.6	31.2	56.0	-24.8
2.848	10.6	20.6	31.2	56.0	-24.8
2.416	10.6	20.6	31.2	56.0	-24.8
2.768	10.6	20.6	31.2	56.0	-24.8
1.808	10.6	20.6	31.2	56.0	-24.8
0.699	10.4	20.8	31.2	56.0	-24.8
0.752	10.4	20.7	31.1	56.0	-24.9
0.677	10.2	20.8	31.0	56.0	-25.0

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.636	11.3	20.8	32.1	46.0	-13.9
1.016	11.5	20.6	32.1	46.0	-13.9
4.776	11.3	20.6	31.9	46.0	-14.1
4.264	11.2	20.6	31.8	46.0	-14.2
0.599	11.0	20.8	31.8	46.0	-14.2
0.551	10.8	20.9	31.7	46.0	-14.3
1.992	11.0	20.6	31.6	46.0	-14.4
0.816	10.9	20.7	31.6	46.0	-14.4
4.144	10.9	20.6	31.5	46.0	-14.5
0.427	11.8	20.9	32.7	47.3	-14.6
2.648	10.8	20.6	31.4	46.0	-14.6
4.512	10.7	20.6	31.3	46.0	-14.7
3.296	10.6	20.6	31.2	46.0	-14.8
2.848	10.6	20.6	31.2	46.0	-14.8
2.416	10.6	20.6	31.2	46.0	-14.8
2.768	10.6	20.6	31.2	46.0	-14.8
1.808	10.6	20.6	31.2	46.0	-14.8
0.699	10.4	20.8	31.2	46.0	-14.8
0.752	10.4	20.7	31.1	46.0	-14.9
0.677	10.2	20.8	31.0	46.0	-15.0

EMC

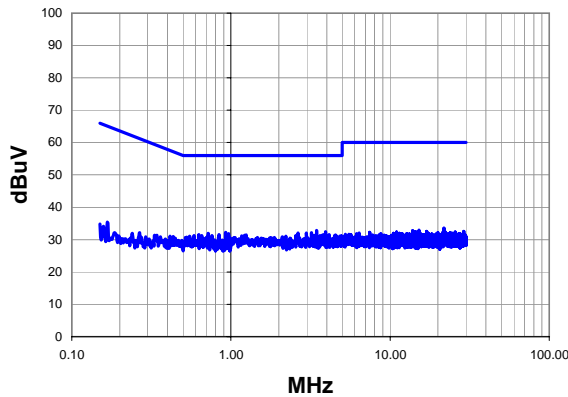
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INFO0377	Date:	05/06/09	<i>Jennifer Herrett</i>
Project:	None	Temperature:	21	
Job Site:	EV07	Humidity:	43	
Serial Number:	None	Barometric Pres.:	1016.4	
EUT:	PBM			
Configuration:	5 - Conducted Emissions - PBM			
Customer:	InFocus Corporation			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Tx, Mid Channel			
Deviations:	No deviations.			
Comments:	None			

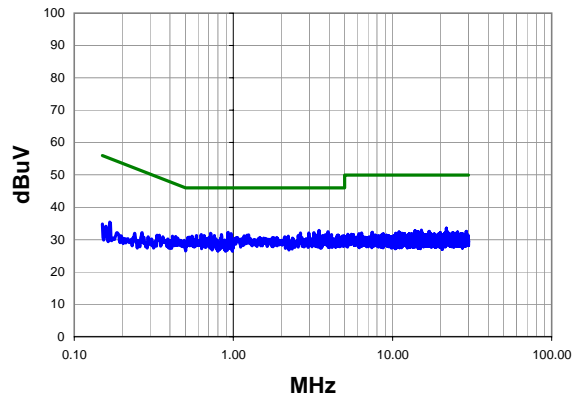
Test Specifications	Class B	Test Method
FCC 15.207:2009		ANSI C63.4:2003

Run #	15	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
3.456	12.2	20.6	32.8	56.0	-23.2
3.936	11.8	20.6	32.4	56.0	-23.6
0.925	11.6	20.6	32.2	56.0	-23.8
3.200	11.5	20.6	32.1	56.0	-23.9
2.984	11.4	20.6	32.0	56.0	-24.0
2.640	11.4	20.6	32.0	56.0	-24.0
0.719	11.2	20.8	32.0	56.0	-24.0
0.966	11.2	20.6	31.8	56.0	-24.2
0.842	10.9	20.7	31.6	56.0	-24.4
4.128	10.9	20.6	31.5	56.0	-24.5
0.628	10.7	20.8	31.5	56.0	-24.5
1.248	10.9	20.6	31.5	56.0	-24.5
3.768	10.8	20.6	31.4	56.0	-24.6
4.560	10.7	20.6	31.3	56.0	-24.7
4.504	10.7	20.6	31.3	56.0	-24.7
3.320	10.7	20.6	31.3	56.0	-24.7
0.657	10.5	20.8	31.3	56.0	-24.7
0.585	10.4	20.8	31.2	56.0	-24.8
4.040	10.6	20.6	31.2	56.0	-24.8
0.760	10.5	20.7	31.2	56.0	-24.8

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
3.456	12.2	20.6	32.8	46.0	-13.2
3.936	11.8	20.6	32.4	46.0	-13.6
0.925	11.6	20.6	32.2	46.0	-13.8
3.200	11.5	20.6	32.1	46.0	-13.9
2.984	11.4	20.6	32.0	46.0	-14.0
2.640	11.4	20.6	32.0	46.0	-14.0
0.719	11.2	20.8	32.0	46.0	-14.0
0.966	11.2	20.6	31.8	46.0	-14.2
0.842	10.9	20.7	31.6	46.0	-14.4
4.128	10.9	20.6	31.5	46.0	-14.5
0.628	10.7	20.8	31.5	46.0	-14.5
1.248	10.9	20.6	31.5	46.0	-14.5
3.768	10.8	20.6	31.4	46.0	-14.6
4.560	10.7	20.6	31.3	46.0	-14.7
4.504	10.7	20.6	31.3	46.0	-14.7
3.320	10.7	20.6	31.3	46.0	-14.7
0.657	10.5	20.8	31.3	46.0	-14.7
0.585	10.4	20.8	31.2	46.0	-14.8
4.040	10.6	20.6	31.2	46.0	-14.8
0.760	10.5	20.7	31.2	46.0	-14.8

EMC

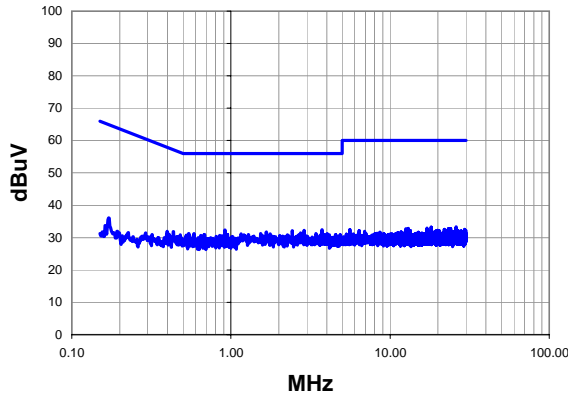
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INFO0377	Date:	05/06/09	<i>Jennifer Herrett</i> Tested by: Jennifer Herrett
Project:	None	Temperature:	21	
Job Site:	EV07	Humidity:	43	
Serial Number:	None	Barometric Pres.:	1016.4	
EUT:	PBM			
Configuration:	5 - Conducted Emissions - PBM			
Customer:	InFocus Corporation			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Tx, Mid Channel			
Deviations:	No deviations.			
Comments:	None			

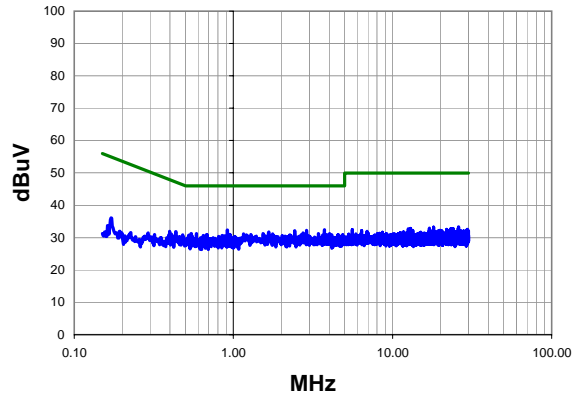
Test Specifications FCC 15.207:2009	Class B	Test Method ANSI C63.4:2003
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Run #	16	Line: High Line	Ext. Attenuation: 20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
3.728	11.8	20.6	32.4	56.0	-23.6
0.915	11.7	20.6	32.3	56.0	-23.7
2.888	11.6	20.6	32.2	56.0	-23.8
2.432	11.5	20.6	32.1	56.0	-23.9
1.672	11.2	20.6	31.8	56.0	-24.2
2.736	10.8	20.6	31.4	56.0	-24.6
1.536	10.7	20.6	31.3	56.0	-24.7
0.543	10.4	20.9	31.3	56.0	-24.7
0.585	10.4	20.8	31.2	56.0	-24.8
4.016	10.6	20.6	31.2	56.0	-24.8
3.424	10.6	20.6	31.2	56.0	-24.8
1.768	10.6	20.6	31.2	56.0	-24.8
1.160	10.6	20.6	31.2	56.0	-24.8
0.930	10.4	20.6	31.0	56.0	-25.0
0.682	10.2	20.8	31.0	56.0	-25.0
0.952	10.3	20.6	30.9	56.0	-25.1
0.677	10.1	20.8	30.9	56.0	-25.1
4.864	10.2	20.6	30.8	56.0	-25.2
4.528	10.2	20.6	30.8	56.0	-25.2
0.526	9.9	20.9	30.8	56.0	-25.2

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
3.728	11.8	20.6	32.4	46.0	-13.6
0.915	11.7	20.6	32.3	46.0	-13.7
2.888	11.6	20.6	32.2	46.0	-13.8
2.432	11.5	20.6	32.1	46.0	-13.9
1.672	11.2	20.6	31.8	46.0	-14.2
2.736	10.8	20.6	31.4	46.0	-14.6
1.536	10.7	20.6	31.3	46.0	-14.7
0.543	10.4	20.9	31.3	46.0	-14.7
0.585	10.4	20.8	31.2	46.0	-14.8
4.016	10.6	20.6	31.2	46.0	-14.8
3.424	10.6	20.6	31.2	46.0	-14.8
1.768	10.6	20.6	31.2	46.0	-14.8
1.160	10.6	20.6	31.2	46.0	-14.8
0.930	10.4	20.6	31.0	46.0	-15.0
0.682	10.2	20.8	31.0	46.0	-15.0
0.952	10.3	20.6	30.9	46.0	-15.1
0.677	10.1	20.8	30.9	46.0	-15.1
4.864	10.2	20.6	30.8	46.0	-15.2
4.528	10.2	20.6	30.8	46.0	-15.2
0.526	9.9	20.9	30.8	46.0	-15.2

EMC

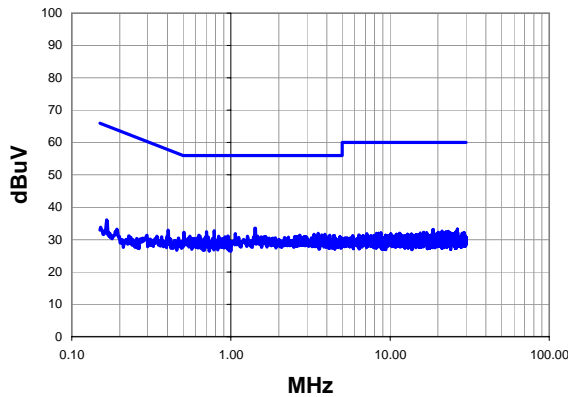
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INFO0377	Date:	05/06/09	<i>Jennifer Herrett</i> Tested by: Jennifer Herrett
Project:	None	Temperature:	21	
Job Site:	EV07	Humidity:	43	
Serial Number:	None	Barometric Pres.:	1016.4	
EUT:	PBM			
Configuration:	5 - Conducted Emissions - PBM			
Customer:	InFocus Corporation			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Tx, High Channel			
Deviations:	No deviations.			
Comments:	None			

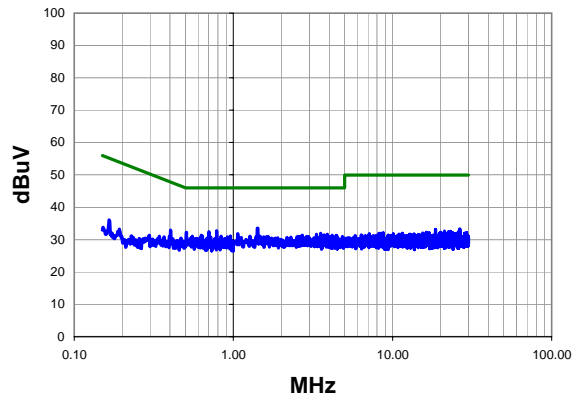
Test Specifications FCC 15.207:2009	Class B	Test Method ANSI C63.4:2003
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Run #	17	Line: High Line	Ext. Attenuation: 20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.416	12.9	20.6	33.5	56.0	-22.5
0.786	12.0	20.7	32.7	56.0	-23.3
0.703	11.7	20.8	32.5	56.0	-23.5
0.505	11.4	20.9	32.3	56.0	-23.7
3.528	11.3	20.6	31.9	56.0	-24.1
1.064	11.3	20.6	31.9	56.0	-24.1
3.888	11.0	20.6	31.6	56.0	-24.4
3.328	11.0	20.6	31.6	56.0	-24.4
3.720	10.8	20.6	31.4	56.0	-24.6
4.184	10.7	20.6	31.3	56.0	-24.7
0.629	10.5	20.8	31.3	56.0	-24.7
2.704	10.7	20.6	31.3	56.0	-24.7
4.456	10.6	20.6	31.2	56.0	-24.8
4.416	10.6	20.6	31.2	56.0	-24.8
0.403	12.0	20.9	32.9	57.8	-24.8
0.640	10.3	20.8	31.1	56.0	-24.9
1.272	10.5	20.6	31.1	56.0	-24.9
0.837	10.4	20.7	31.1	56.0	-24.9
0.551	10.2	20.9	31.1	56.0	-24.9
0.957	10.4	20.6	31.0	56.0	-25.0

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.416	12.9	20.6	33.5	46.0	-12.5
0.786	12.0	20.7	32.7	46.0	-13.3
0.703	11.7	20.8	32.5	46.0	-13.5
0.505	11.4	20.9	32.3	46.0	-13.7
3.528	11.3	20.6	31.9	46.0	-14.1
1.064	11.3	20.6	31.9	46.0	-14.1
3.888	11.0	20.6	31.6	46.0	-14.4
3.328	11.0	20.6	31.6	46.0	-14.4
3.720	10.8	20.6	31.4	46.0	-14.6
4.184	10.7	20.6	31.3	46.0	-14.7
0.629	10.5	20.8	31.3	46.0	-14.7
2.704	10.7	20.6	31.3	46.0	-14.7
4.456	10.6	20.6	31.2	46.0	-14.8
4.416	10.6	20.6	31.2	46.0	-14.8
0.403	12.0	20.9	32.9	47.8	-14.8
0.640	10.3	20.8	31.1	46.0	-14.9
1.272	10.5	20.6	31.1	46.0	-14.9
0.837	10.4	20.7	31.1	46.0	-14.9
0.551	10.2	20.9	31.1	46.0	-14.9
0.957	10.4	20.6	31.0	46.0	-15.0

EMC

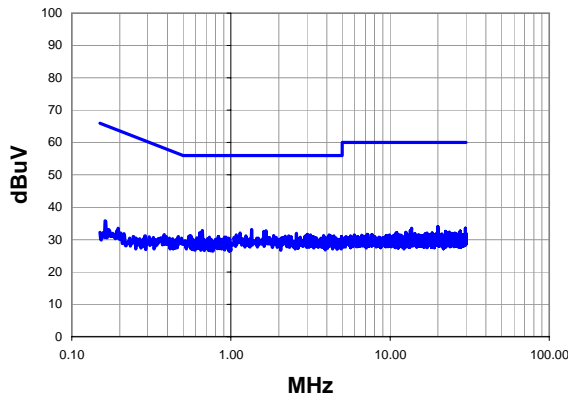
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INFO0377	Date:	05/06/09	<i>Jennifer Herrett</i> Tested by: Jennifer Herrett
Project:	None	Temperature:	21	
Job Site:	EV07	Humidity:	43	
Serial Number:	None	Barometric Pres.:	1016.4	
EUT:	PBM			
Configuration:	5 - Conducted Emissions - PBM			
Customer:	InFocus Corporation			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Tx, High Channel			
Deviations:	No deviations.			
Comments:	None			

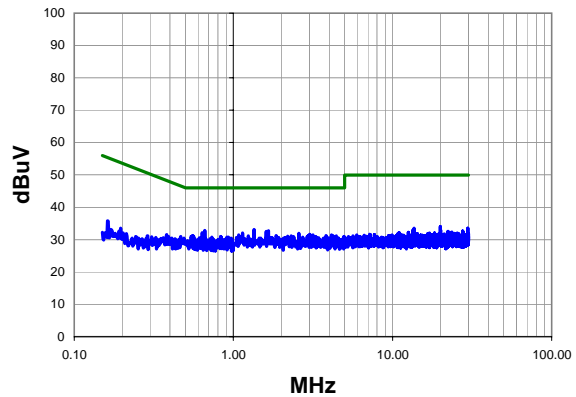
Test Specifications FCC 15.207:2009	Class B	Test Method ANSI C63.4:2003
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Run #	18	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



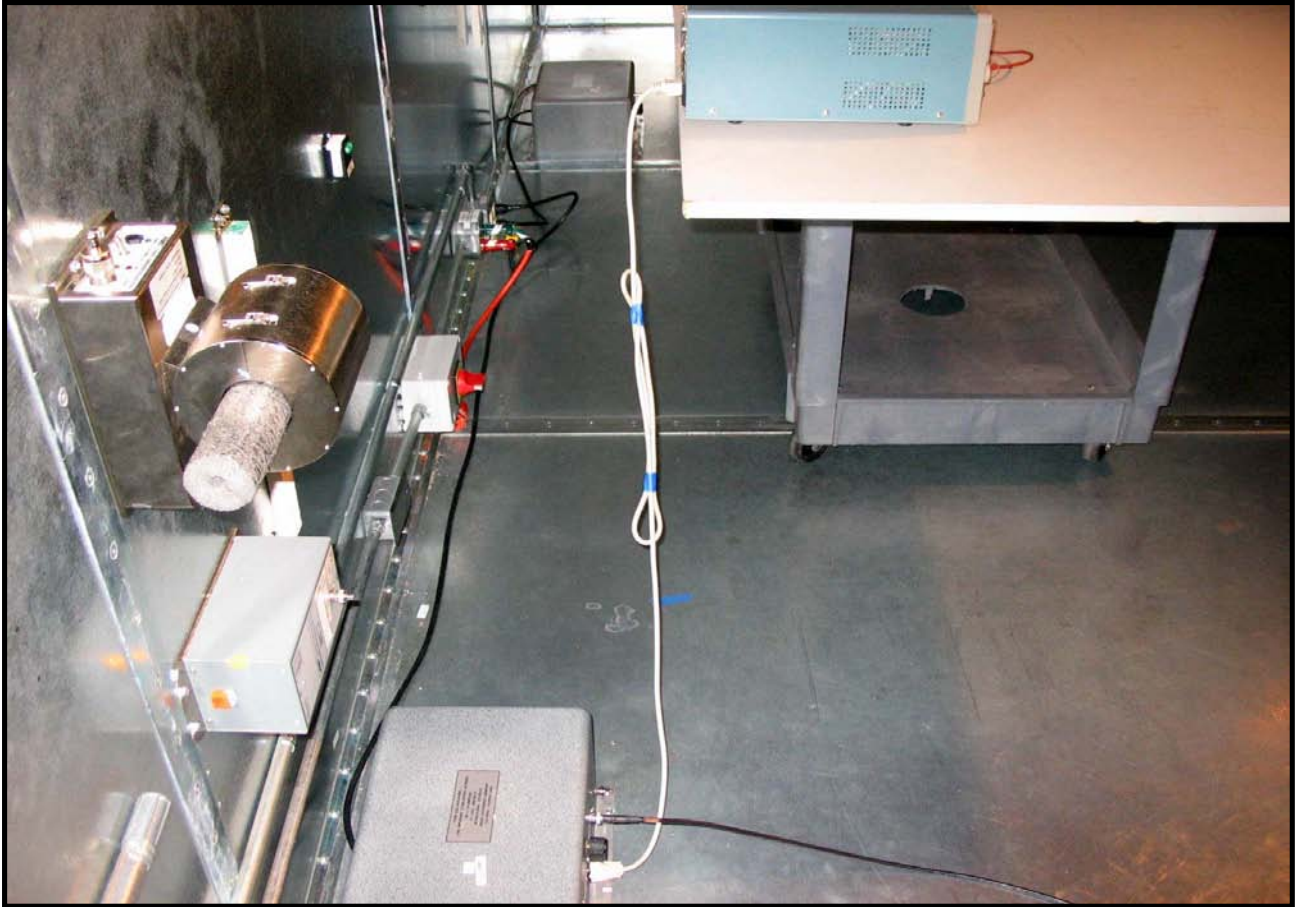
Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.352	12.5	20.6	33.1	56.0	-22.9
0.662	12.0	20.8	32.8	56.0	-23.2
1.664	12.1	20.6	32.7	56.0	-23.3
1.608	12.0	20.6	32.6	56.0	-23.4
0.636	11.3	20.8	32.1	56.0	-23.9
1.144	11.5	20.6	32.1	56.0	-23.9
2.576	11.3	20.6	31.9	56.0	-24.1
3.024	11.0	20.6	31.6	56.0	-24.4
4.128	10.8	20.6	31.4	56.0	-24.6
3.160	10.8	20.6	31.4	56.0	-24.6
2.976	10.7	20.6	31.3	56.0	-24.7
1.856	10.7	20.6	31.3	56.0	-24.7
0.553	10.4	20.9	31.3	56.0	-24.7
4.208	10.6	20.6	31.2	56.0	-24.8
3.832	10.6	20.6	31.2	56.0	-24.8
2.304	10.6	20.6	31.2	56.0	-24.8
1.240	10.6	20.6	31.2	56.0	-24.8
4.424	10.5	20.6	31.1	56.0	-24.9
2.192	10.5	20.6	31.1	56.0	-24.9
0.563	10.2	20.9	31.1	56.0	-24.9

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.352	12.5	20.6	33.1	46.0	-12.9
0.662	12.0	20.8	32.8	46.0	-13.2
1.664	12.1	20.6	32.7	46.0	-13.3
1.608	12.0	20.6	32.6	46.0	-13.4
0.636	11.3	20.8	32.1	46.0	-13.9
1.144	11.5	20.6	32.1	46.0	-13.9
2.576	11.3	20.6	31.9	46.0	-14.1
3.024	11.0	20.6	31.6	46.0	-14.4
4.128	10.8	20.6	31.4	46.0	-14.6
3.160	10.8	20.6	31.4	46.0	-14.6
2.976	10.7	20.6	31.3	46.0	-14.7
1.856	10.7	20.6	31.3	46.0	-14.7
0.553	10.4	20.9	31.3	46.0	-14.7
4.208	10.6	20.6	31.2	46.0	-14.8
3.832	10.6	20.6	31.2	46.0	-14.8
2.304	10.6	20.6	31.2	46.0	-14.8
1.240	10.6	20.6	31.2	46.0	-14.8
4.424	10.5	20.6	31.1	46.0	-14.9
2.192	10.5	20.6	31.1	46.0	-14.9
0.563	10.2	20.9	31.1	46.0	-14.9





Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Near Field Probe	EMCO	7405	IPD	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/27/2008	13
Spectrum Analyzer	Agilent	E4407B	AAU	12/12/2008	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4-2. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The 99% occupied bandwidth was measured with the EUT configured for continuous modulated operation at its middle transmit frequency. The spectrum analyzer's resolution bandwidth was $\geq 1\%$ of the 20dB bandwidth and the video bandwidth was at least 3 times the resolution bandwidth.

EMC

OCCUPIED BANDWIDTH

EUT: PBM	Work Order: INFO0377
Serial Number: None	Date: 05/06/09
Customer: InFocus Corporation	Temperature: 21
Attendees: None	Humidity: 33%
Project: None	Barometric Pres.: 1023
Tested by: Ethan Schoonover	Power: Battery
	Job Site: EV06

TEST SPECIFICATIONS		Test Method	
RSS-Gen:2007		RSS-Gen :2007	

COMMENTS

None

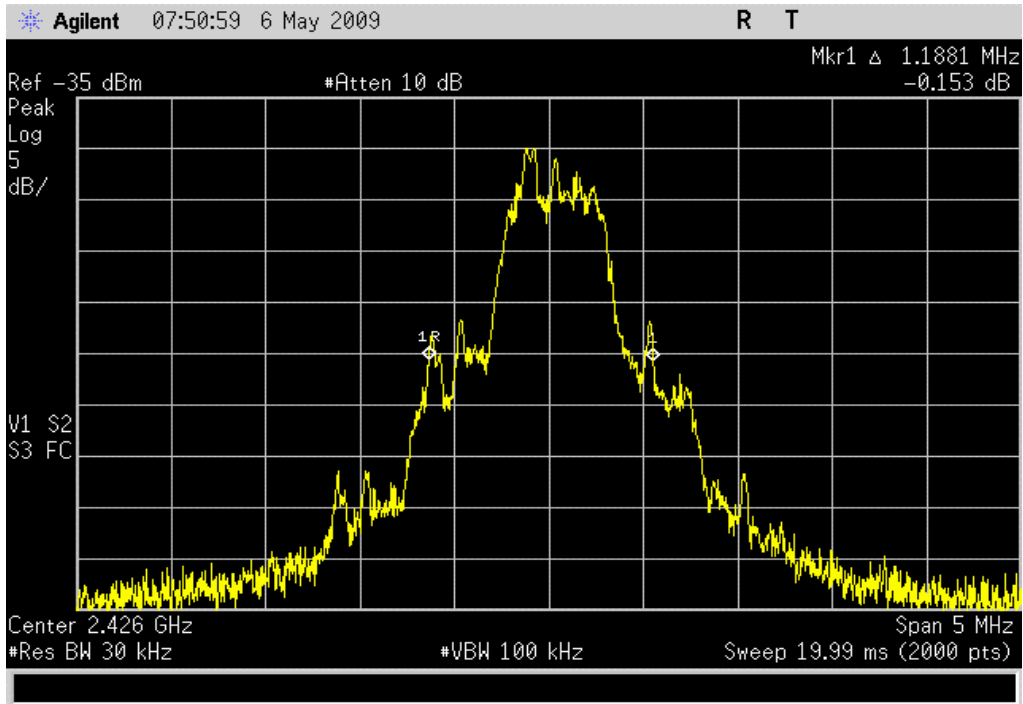
DEVIATIONS FROM TEST STANDARD

No Deviations

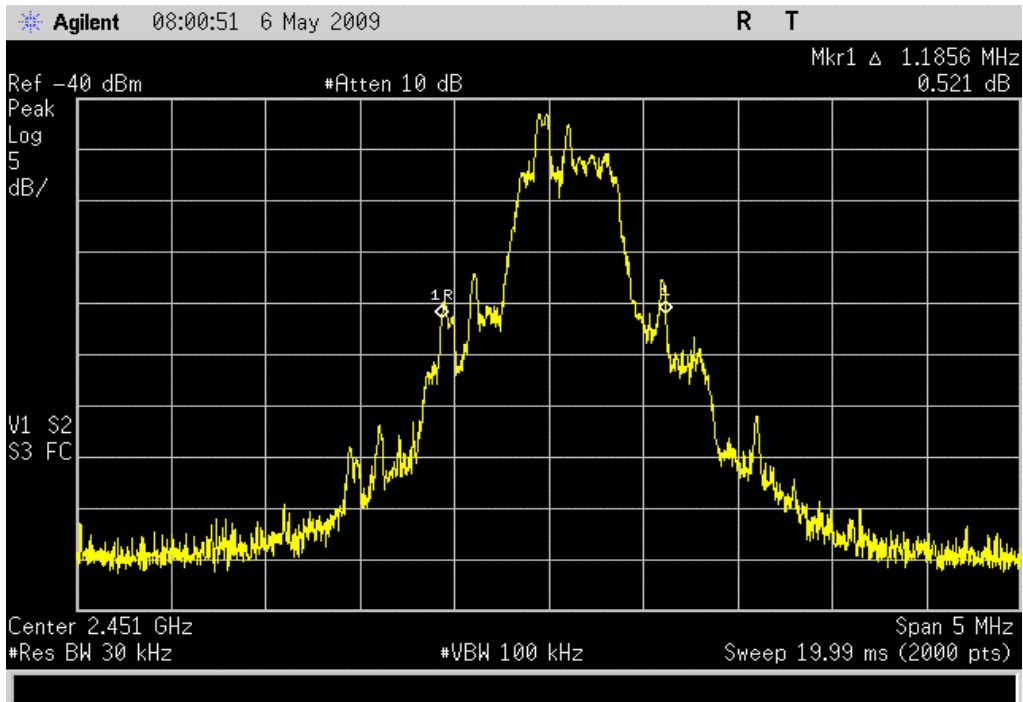
Configuration #	1	<i>Signature</i> 
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	Value	Limit	Results
Low Channel	1.188MHz		
Mid Channel	1.186MHz		
High Channel	1.188MHz		

Low Channel
Value: 1.188MHz

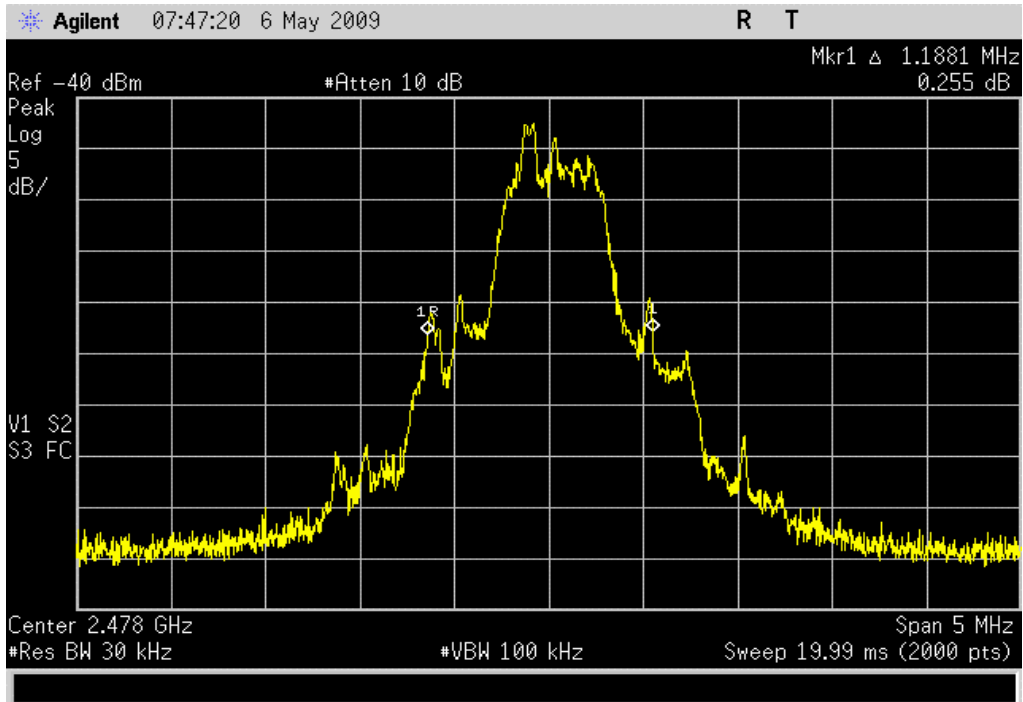


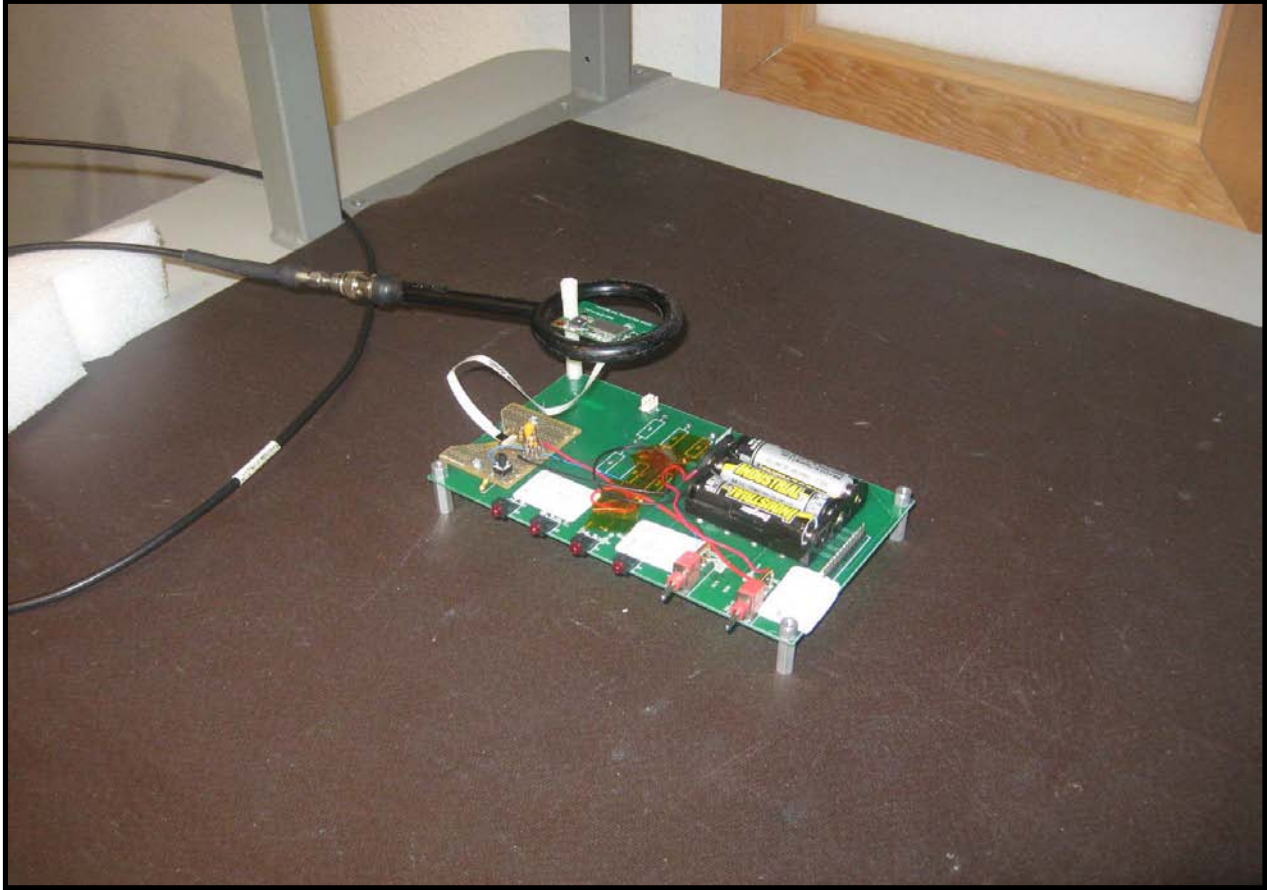
Mid Channel
Value: 1.186MHz



High Channel

Value: 1.188MHz





Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Tx

MODE USED FOR FINAL DATA

Tx

POWER SETTINGS INVESTIGATED

Battery

POWER SETTINGS USED FOR FINAL DATA

Battery

FREQUENCY RANGE INVESTIGATED

Start Frequency	2400MHz	Stop Frequency	2483.5MHz
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SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E44440A	AFA	11/14/2008	12
EV12 Cables		Double Ridge Horn Cables	EVT	6/17/2008	13
Antenna, Horn	ETS	3115	AIB	8/25/2008	24

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4-2. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and/or receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003).

EUT: PBM	Work Order: INFO0377
Serial Number: None	Date: 04/29/09
Customer: InFocus Corporation	Temperature: 20
Attendees: None	Humidity: 37%
Project: None	Barometric Pres.: 30.23
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV12

TEST SPECIFICATIONS		Test Method	
FCC 15.249:2009		ANSI C63.4:2003	

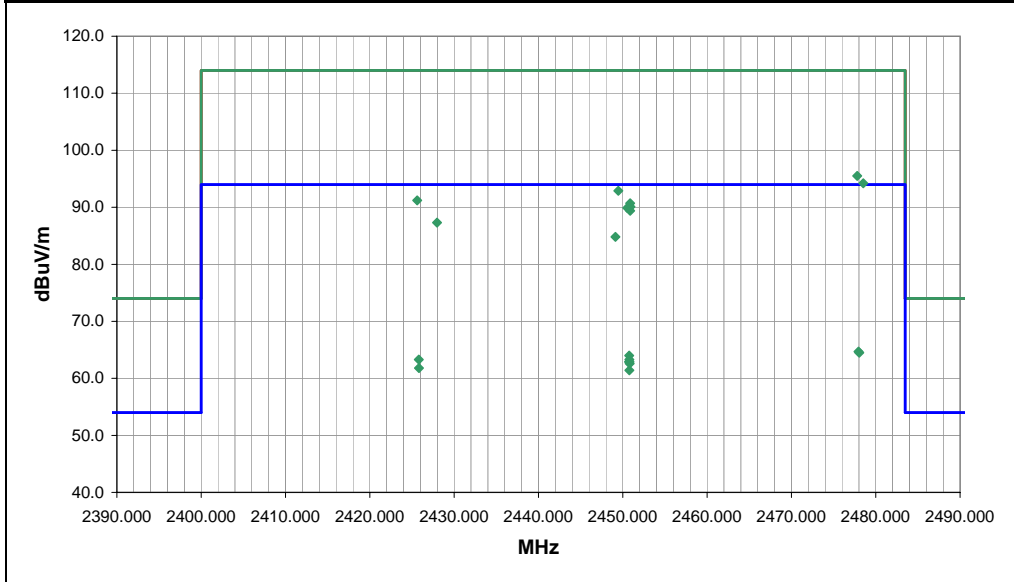
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
None

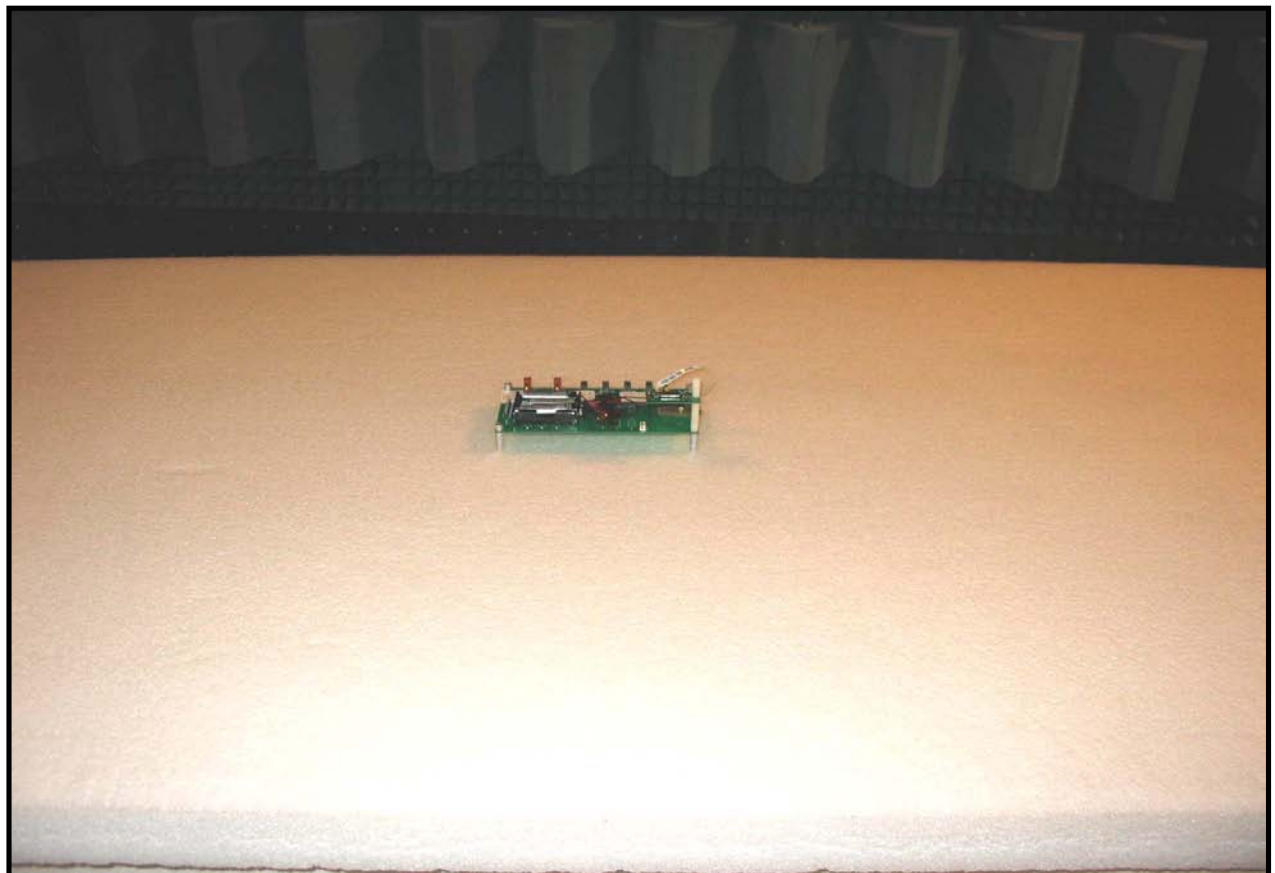
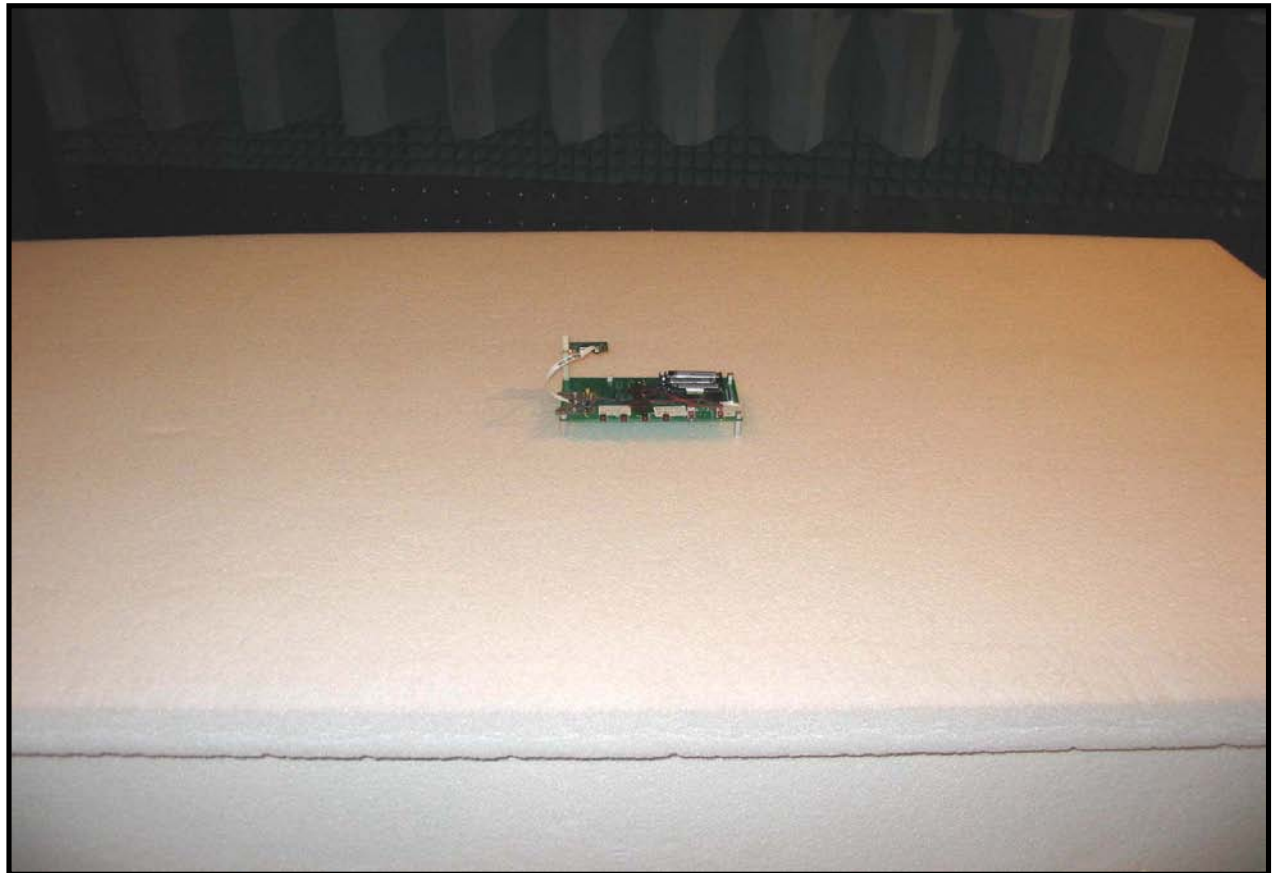
EUT OPERATING MODES
Tx

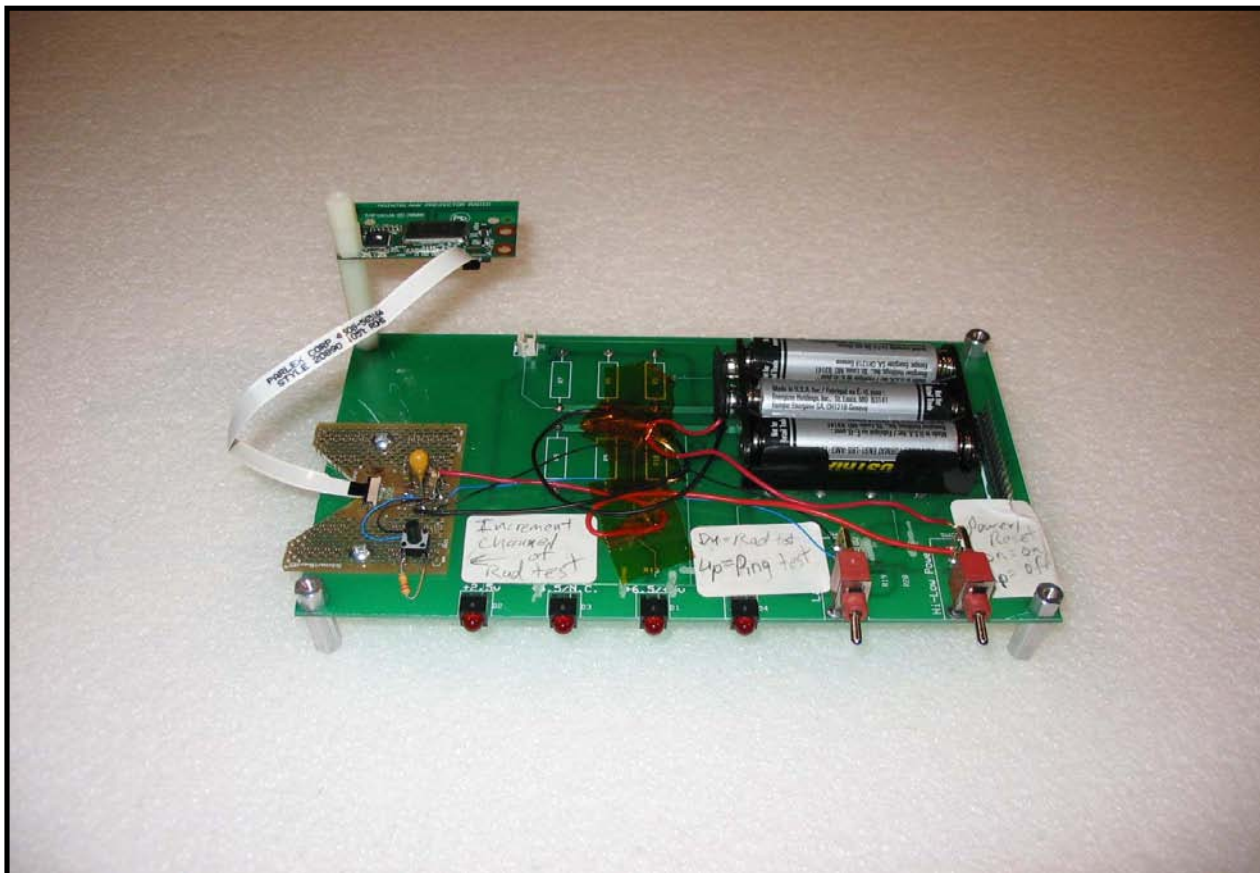
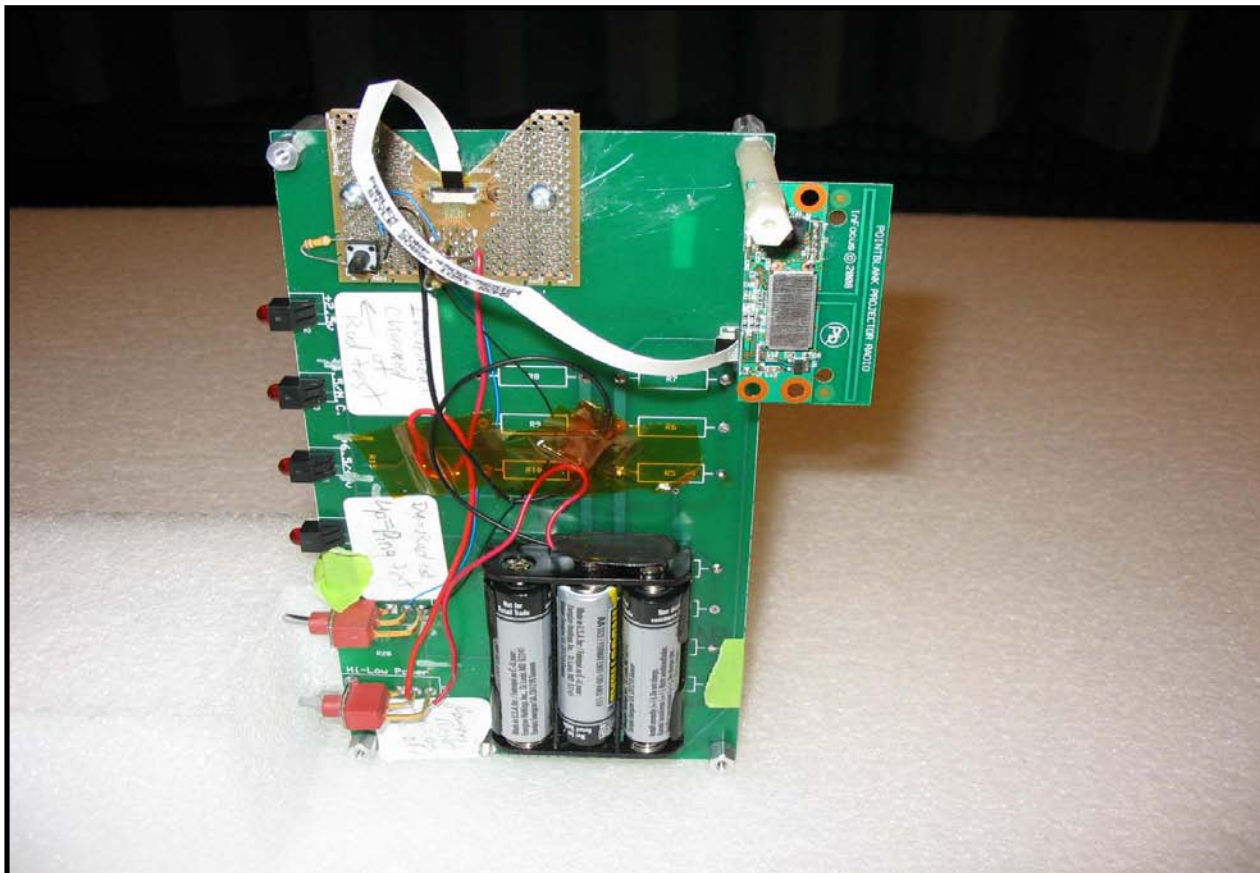
DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	3	 Signature
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2477.808	60.9	34.6	70.0	1.0	3.0	0.0	V-Horn	PK	0.0	95.5	114.0	-18.5	High Channel. EUT on side.
2478.525	59.6	34.6	165.0	1.0	3.0	0.0	H-Horn	PK	0.0	94.2	114.0	-19.8	High Channel. EUT horizontal.
2449.467	58.3	34.6	337.0	1.0	3.0	0.0	H-Horn	PK	0.0	92.9	114.0	-21.1	Mid Channel. EUT horizontal.
2425.617	56.6	34.6	51.0	1.6	3.0	0.0	V-Horn	PK	0.0	91.2	114.0	-22.8	Low Channel. EUT on side.
2450.875	56.1	34.6	6.0	1.0	3.0	0.0	H-Horn	PK	0.0	90.7	114.0	-23.3	Mid Channel. EUT vertical.
2450.908	55.5	34.6	141.0	1.2	3.0	0.0	V-Horn	PK	0.0	90.1	114.0	-23.9	Mid Channel. EUT on side.
2450.533	55.3	34.6	326.0	1.0	3.0	0.0	H-Horn	PK	0.0	89.9	114.0	-24.1	Mid Channel. EUT on side.
2450.867	54.8	34.6	244.0	1.0	3.0	0.0	V-Horn	PK	0.0	89.4	114.0	-24.6	Mid Channel. EUT vertical.
2427.967	52.7	34.6	122.0	1.2	3.0	0.0	H-Horn	PK	0.0	87.3	114.0	-26.7	Low Channel. EUT horizontal.
2449.133	50.2	34.6	66.0	1.2	3.0	0.0	V-Horn	PK	0.0	84.8	114.0	-29.2	Mid Channel. EUT horizontal.
2477.942	30.1	34.6	70.0	1.0	3.0	0.0	V-Horn	AV	0.0	64.7	94.0	-29.3	High Channel. EUT on side.
2478.042	29.9	34.6	165.0	1.0	3.0	0.0	H-Horn	AV	0.0	64.5	94.0	-29.5	High Channel. EUT horizontal.
2450.758	29.4	34.6	337.0	1.0	3.0	0.0	H-Horn	AV	0.0	64.0	94.0	-30.0	Mid Channel. EUT horizontal.
2425.800	28.7	34.6	51.0	1.6	3.0	0.0	V-Horn	AV	0.0	63.3	94.0	-30.7	Low Channel. EUT on side.
2450.775	28.7	34.6	6.0	1.0	3.0	0.0	H-Horn	AV	0.0	63.3	94.0	-30.7	Mid Channel. EUT vertical.
2450.733	28.3	34.6	326.0	1.0	3.0	0.0	H-Horn	AV	0.0	62.9	94.0	-31.1	Mid Channel. EUT on side.
2450.792	28.3	34.6	244.0	1.0	3.0	0.0	V-Horn	AV	0.0	62.9	94.0	-31.1	Mid Channel. EUT vertical.
2450.817	28.0	34.6	141.0	1.2	3.0	0.0	V-Horn	AV	0.0	62.6	94.0	-31.4	Mid Channel. EUT on side.
2425.817	27.2	34.6	122.0	1.2	3.0	0.0	H-Horn	AV	0.0	61.8	94.0	-32.2	Low Channel. EUT horizontal.
2450.783	26.8	34.6	66.0	1.2	3.0	0.0	V-Horn	AV	0.0	61.4	94.0	-32.6	Mid Channel. EUT horizontal.





Field Strength of Fundamental



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Tx

POWER SETTINGS INVESTIGATED

Battery

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
EV01 Cables		18-26GHz Standard Gain Horn Cable	EVD	12/2/2008	13
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	12/2/2008	13
Antenna, Horn	ETS	3160-09	AHG	NCR	0
EV12 Cables		Standard Gain Horn Cables	EVU	5/14/2008	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVI	5/14/2008	13
Antenna, Horn	ETS	3160-08	AIA	NCR	0
EV12 Cables		Standard Gain Horn Cables	EVU	5/14/2008	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVH	5/14/2008	13
Antenna, Horn	ETS	3160.07	AHZ	10/14/2008	24
Attenuator	Pasternack	PE7005-20	AUN	5/10/2008	13
High Pass Filter	Micro-Tronics	50111	HGE	5/14/2008	13
EV12 Cables		Double Ridge Horn Cables	EVT	6/17/2008	13
Pre-Amplifier	Miteq	AMF-3D00100800-32-13P	AVF	6/17/2008	13
Antenna, Horn	ETS	3115	AIB	8/25/2008	24
Spectrum Analyzer	Agilent	E44440A	AFA	11/14/2008	12
EV12 Cables		Bilog Cables	EVS	6/17/2008	13
Pre-Amplifier	Miteq	AM-1616-1000	AVM	6/17/2008	13
Antenna, Biconilog	EMCO	3141	AXG	11/4/2008	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4-2. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

EUT: PBM	Work Order: INFO0377
Serial Number: None	Date: 05/04/09
Customer: InFocus Corporation	Temperature: 21
Attendees: None	Humidity: 33%
Project: None	Barometric Pres.: 30.03
Tested by: Ethan Schoonover	Power: Battery
	Job Site: EV12

TEST SPECIFICATIONS		Test Method
FCC 15.249:2009		ANSI C63.4:2003

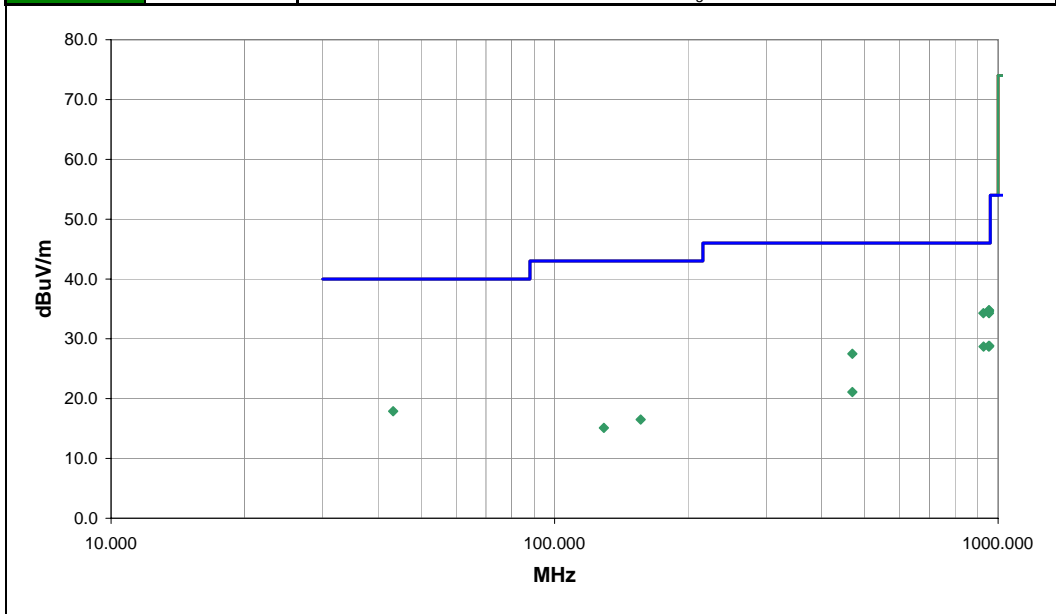
TEST PARAMETERS		
Antenna Height(s) (m)	1 - 4	Test Distance (m)
		3

COMMENTS
None

EUT OPERATING MODES
Tx

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	9	Signature 
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
953.558	21.5	13.3	107.0	3.6	3.0	0.0	H-Bilog	PK	0.0	34.8	46.0	-11.2	EUT normal
953.648	21.4	13.3	347.0	3.6	3.0	0.0	H-Bilog	PK	0.0	34.7	46.0	-11.3	EUT on side.
953.926	21.3	13.3	197.0	1.4	3.0	0.0	H-Bilog	PK	0.0	34.6	46.0	-11.4	EUT normal mid channel
926.323	21.1	13.2	36.0	2.7	3.0	0.0	H-Bilog	PK	0.0	34.3	46.0	-11.7	EUT normal
953.646	21.0	13.3	42.0	1.4	3.0	0.0	H-Bilog	PK	0.0	34.3	46.0	-11.7	EUT normal low channel
953.234	15.5	13.3	107.0	3.6	3.0	0.0	H-Bilog	QP	0.0	28.8	46.0	-17.2	EUT normal
954.416	15.5	13.3	42.0	1.4	3.0	0.0	H-Bilog	QP	0.0	28.8	46.0	-17.2	EUT normal low channel
954.792	15.5	13.3	197.0	1.4	3.0	0.0	H-Bilog	QP	0.0	28.8	46.0	-17.2	EUT normal mid channel
926.870	15.5	13.2	36.0	2.7	3.0	0.0	H-Bilog	QP	0.0	28.7	46.0	-17.3	EUT normal
953.295	15.4	13.3	347.0	3.6	3.0	0.0	H-Bilog	QP	0.0	28.7	46.0	-17.3	EUT on end.
469.349	22.2	5.3	118.0	1.1	3.0	0.0	H-Bilog	PK	0.0	27.5	46.0	-18.5	EUT normal
43.263	21.9	-4.0	56.0	1.7	3.0	0.0	H-Bilog	PK	0.0	17.9	40.0	-22.1	EUT normal
469.333	15.8	5.3	118.0	1.1	3.0	0.0	H-Bilog	QP	0.0	21.1	46.0	-24.9	EUT normal
156.392	21.5	-5.0	104.0	2.8	3.0	0.0	H-Bilog	PK	0.0	16.5	43.0	-26.5	EUT normal
129.122	22.2	-7.1	32.0	1.5	3.0	0.0	H-Bilog	PK	0.0	15.1	43.0	-27.9	EUT normal

EUT: PBM	Work Order: INFO0377
Serial Number: None	Date: 04/29/09
Customer: InFocus Corporation	Temperature: 21
Attendees: None	Humidity: 33%
Project: None	Barometric Pres.: 30.03
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 15.249:2009	ANSI C63.4:2003

TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

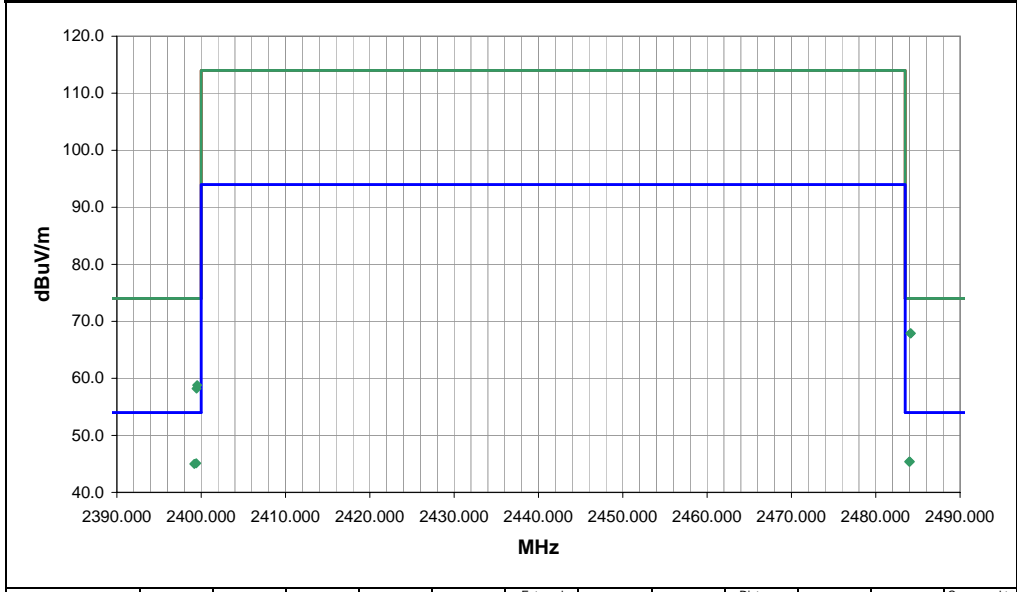
COMMENTS
None

EUT OPERATING MODES
Tx

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	4
Configuration #	1
Results	Pass

Signature *Jennifer Herrett*



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2484.115	49.4	-1.5	74.0	1.0	3.0	20.0	V-Horn	PK	0.0	67.9	74.0	-6.1	High Channel. EUT on side.
2484.165	49.4	-1.5	167.0	1.0	3.0	20.0	H-Horn	PK	0.0	67.9	74.0	-6.1	High Channel. EUT horizontal.
2483.968	26.9	-1.5	74.0	1.0	3.0	20.0	V-Horn	AV	0.0	45.4	54.0	-8.6	High Channel. EUT on side.
2484.035	26.9	-1.5	167.0	1.0	3.0	20.0	H-Horn	AV	0.0	45.4	54.0	-8.6	High Channel. EUT horizontal.
2399.412	26.8	-1.7	196.0	2.2	3.0	20.0	H-Horn	AV	0.0	45.1	54.0	-8.9	Low Channel. EUT horizontal.
2399.180	26.7	-1.7	16.0	1.0	3.0	20.0	V-Horn	AV	0.0	45.0	54.0	-9.0	Low Channel. EUT on side.
2399.520	40.5	-1.7	196.0	2.2	3.0	20.0	H-Horn	PK	0.0	58.8	74.0	-15.2	Low Channel. EUT horizontal.
2399.448	39.9	-1.7	16.0	1.0	3.0	20.0	V-Horn	PK	0.0	58.2	74.0	-15.8	Low Channel. EUT on side.

EUT: PBM	Work Order: INFO0377
Serial Number: None	Date: 04/27/09
Customer: InFocus Corporation	Temperature: 21
Attendees: None	Humidity: 33%
Project: None	Barometric Pres.: 30.03
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV12

TEST SPECIFICATIONS		Test Method
FCC 15.249:2009		ANSI C63.4:2003

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
None

EUT OPERATING MODES

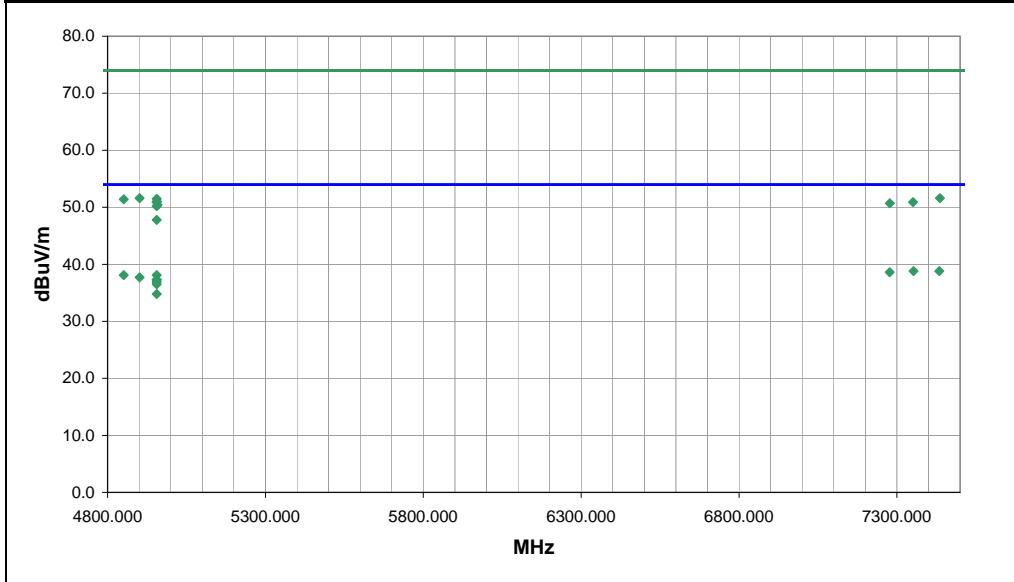
Tx

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	1
Configuration #	1
Results	Pass

Signature *Jennifer Herrett*



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7434.047	24.5	14.3	48.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.8	54.0	-15.2	High Channel. EUT on side.
7352.642	24.6	14.2	173.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.8	54.0	-15.2	Mid Channel. EUT on side.
7277.233	24.7	13.9	192.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.6	54.0	-15.4	Low Channel. EUT on side.
4851.362	31.3	6.8	271.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	Low Channel. EUT on side.
4955.821	31.0	7.1	268.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	High Channel. EUT on side.
4901.373	30.8	6.9	270.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.7	54.0	-16.3	Mid Channel. EUT on side.
4955.786	30.2	7.1	360.0	1.2	3.0	0.0	H-Horn	AV	0.0	37.3	54.0	-16.7	High Channel. EUT vertical.
4955.821	30.2	7.1	339.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.3	54.0	-16.7	High Channel. EUT vertical.
4955.797	29.8	7.1	308.0	1.2	3.0	0.0	H-Horn	AV	0.0	36.9	54.0	-17.1	High Channel. EUT on side.
4955.821	29.4	7.1	148.0	1.0	3.0	0.0	H-Horn	AV	0.0	36.5	54.0	-17.5	High Channel. EUT horizontal.
4955.809	27.7	7.1	260.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.8	54.0	-19.2	High Channel. EUT horizontal.
4901.350	44.7	6.9	270.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.6	74.0	-22.4	Mid Channel. EUT on side.
7435.913	37.3	14.3	48.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.6	74.0	-22.4	High Channel. EUT on side.
4955.576	44.4	7.1	268.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.5	74.0	-22.5	High Channel. EUT on side.
4850.930	44.6	6.8	271.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.4	74.0	-22.6	Low Channel. EUT on side.
4956.147	43.9	7.1	308.0	1.2	3.0	0.0	H-Horn	PK	0.0	51.0	74.0	-23.0	High Channel. EUT on side.
7350.938	36.7	14.2	173.0	1.0	3.0	0.0	V-Horn	PK	0.0	50.9	74.0	-23.1	Mid Channel. EUT on side.
4955.121	43.8	7.1	339.0	1.0	3.0	0.0	V-Horn	PK	0.0	50.9	74.0	-23.1	High Channel. EUT vertical.
7277.350	36.8	13.9	192.0	1.0	3.0	0.0	V-Horn	PK	0.0	50.7	74.0	-23.3	Low Channel. EUT on side.
4958.084	43.3	7.1	360.0	1.2	3.0	0.0	H-Horn	PK	0.0	50.4	74.0	-23.6	High Channel. EUT vertical.

EUT: PBM		Work Order: INFO0377	
Serial Number: None		Date: 04/29/09	
Customer: InFocus Corporation		Temperature: 20	
Attendees: None		Humidity: 37%	
Project: None		Barometric Pres.: 30.23	
Tested by: Jennifer Herrett		Power: Battery	
		Job Site: EV12	

TEST SPECIFICATIONS		Test Method	
FCC 15.249:2009		ANSI C63.4:2003	

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
None

EUT OPERATING MODES

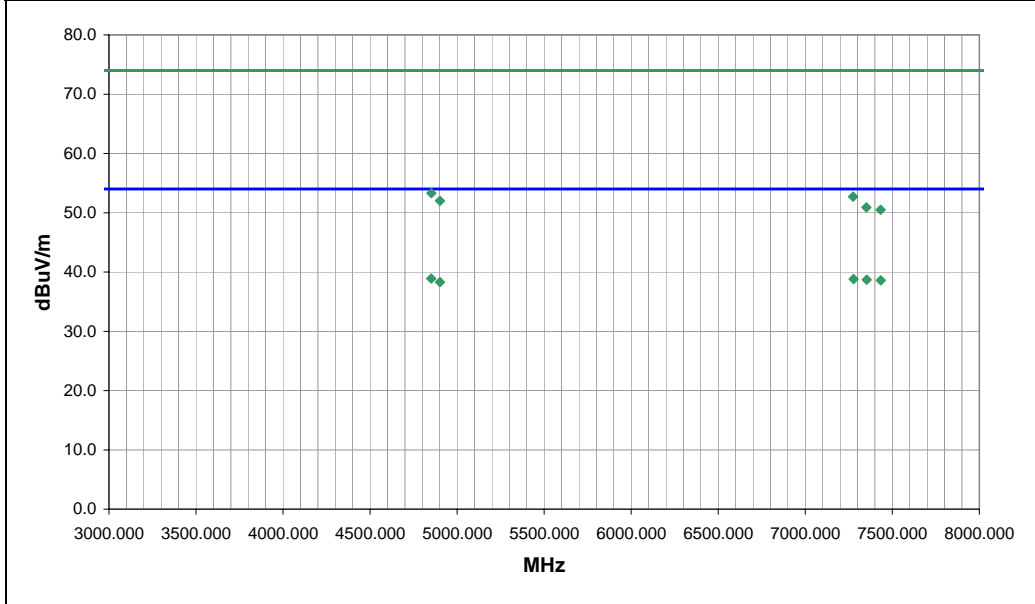
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DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	2
Configuration #	1
Results	Pass

Signature *Jennifer Herrett*



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
4851.372	32.1	6.8	360.0	1.2	3.0	0.0	H-Horn	AV	0.0	38.9	54.0	-15.1	Low Channel. EUT vertical.
7277.565	24.9	13.9	349.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.8	54.0	-15.2	Low Channel. EUT vertical.
7353.148	24.5	14.2	133.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.7	54.0	-15.3	Mid Channel. EUT vertical.
7434.070	24.3	14.3	360.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.6	54.0	-15.4	High Channel. EUT vertical.
4901.267	31.4	6.9	360.0	1.2	3.0	0.0	H-Horn	AV	0.0	38.3	54.0	-15.7	Mid Channel. EUT vertical.
4851.932	46.5	6.8	360.0	1.2	3.0	0.0	H-Horn	PK	0.0	53.3	74.0	-20.7	Low Channel. EUT vertical.
7274.415	38.8	13.9	349.0	1.0	3.0	0.0	H-Horn	PK	0.0	52.7	74.0	-21.3	Low Channel. EUT vertical.
4901.885	45.1	6.9	360.0	1.2	3.0	0.0	H-Horn	PK	0.0	52.0	74.0	-22.0	Mid Channel. EUT vertical.
7350.897	36.7	14.2	133.0	1.0	3.0	0.0	H-Horn	PK	0.0	50.9	74.0	-23.1	Mid Channel. EUT vertical.
7433.078	36.2	14.3	360.0	1.0	3.0	0.0	H-Horn	PK	0.0	50.5	74.0	-23.5	High Channel. EUT vertical.

EUT: PBM	Work Order: INFO0377
Serial Number: None	Date: 04/29/09
Customer: InFocus Corporation	Temperature: 21
Attendees: None	Humidity: 33%
Project: None	Barometric Pres.: 30.03
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV12

TEST SPECIFICATIONS	
FCC 15.249:2009	Test Method ANSI C63.4:2003

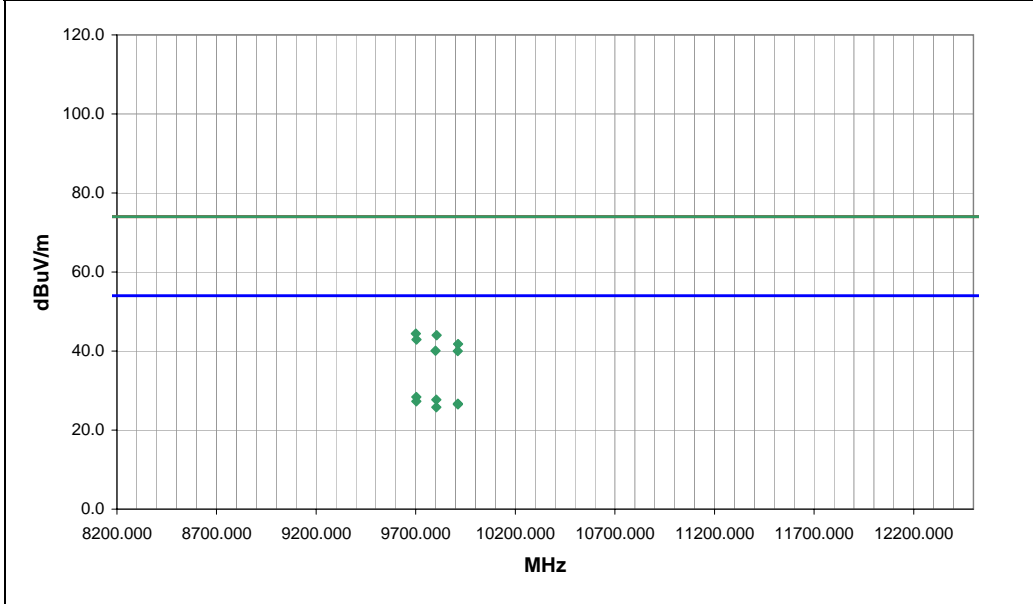
TEST PARAMETERS		
Antenna Height(s) (m)	1 - 4	Test Distance (m)
		3

COMMENTS
None

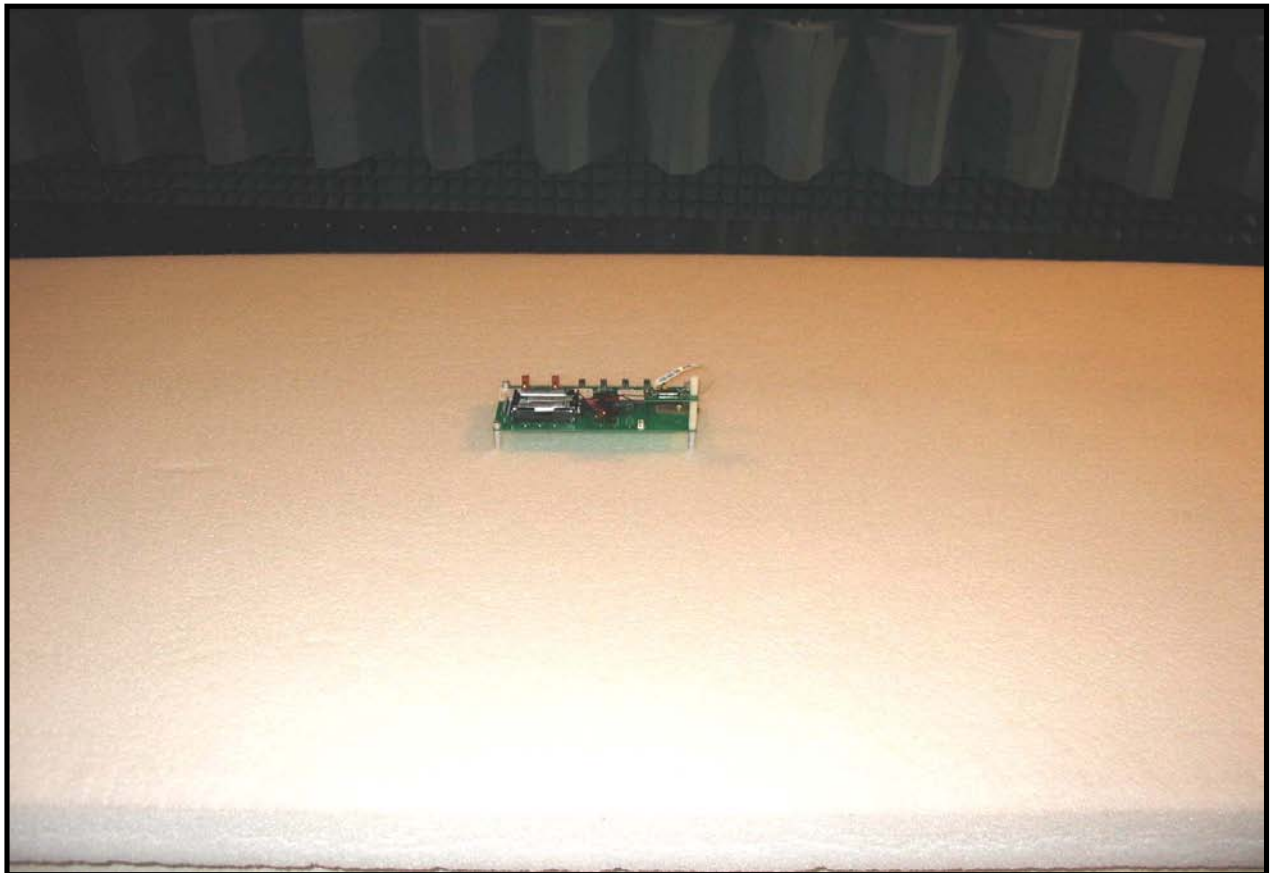
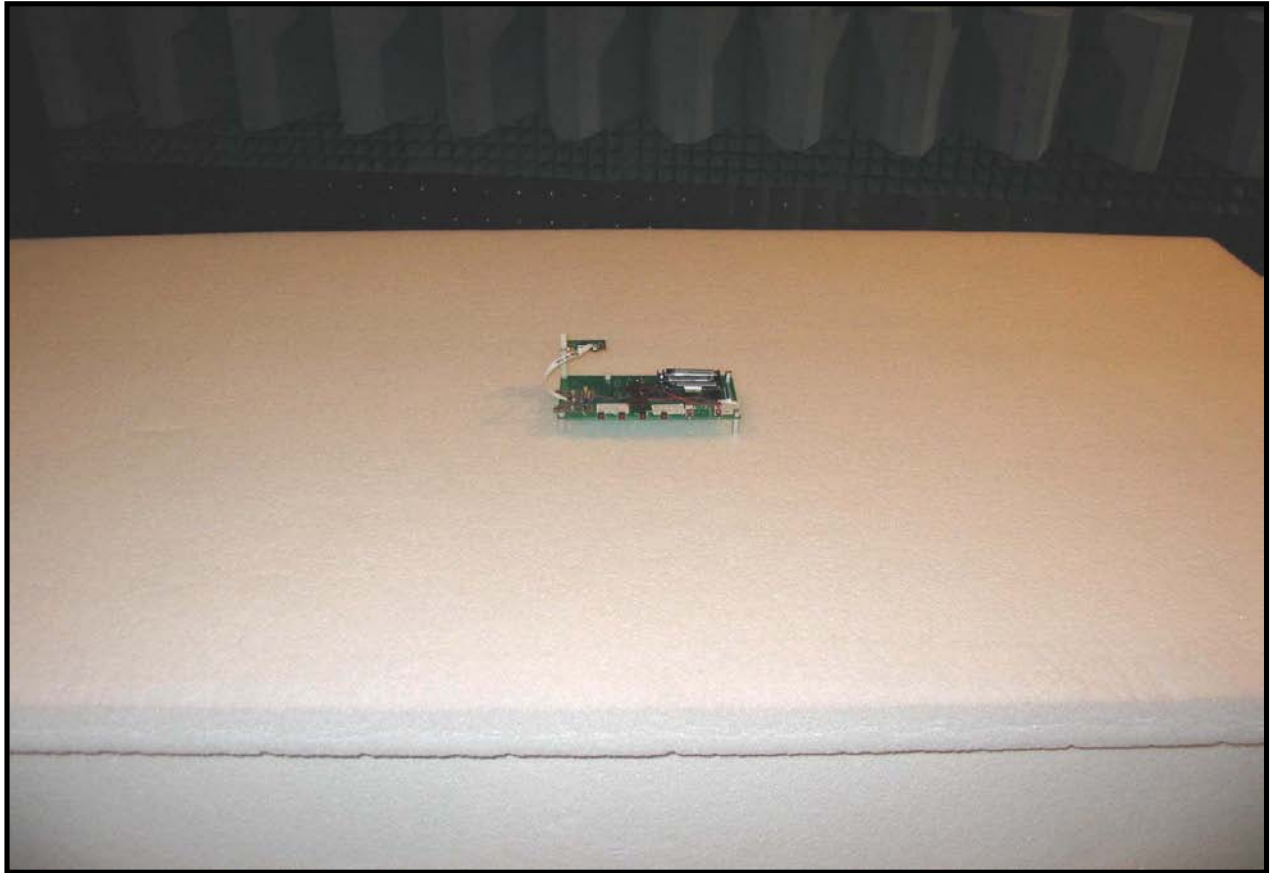
EUT OPERATING MODES

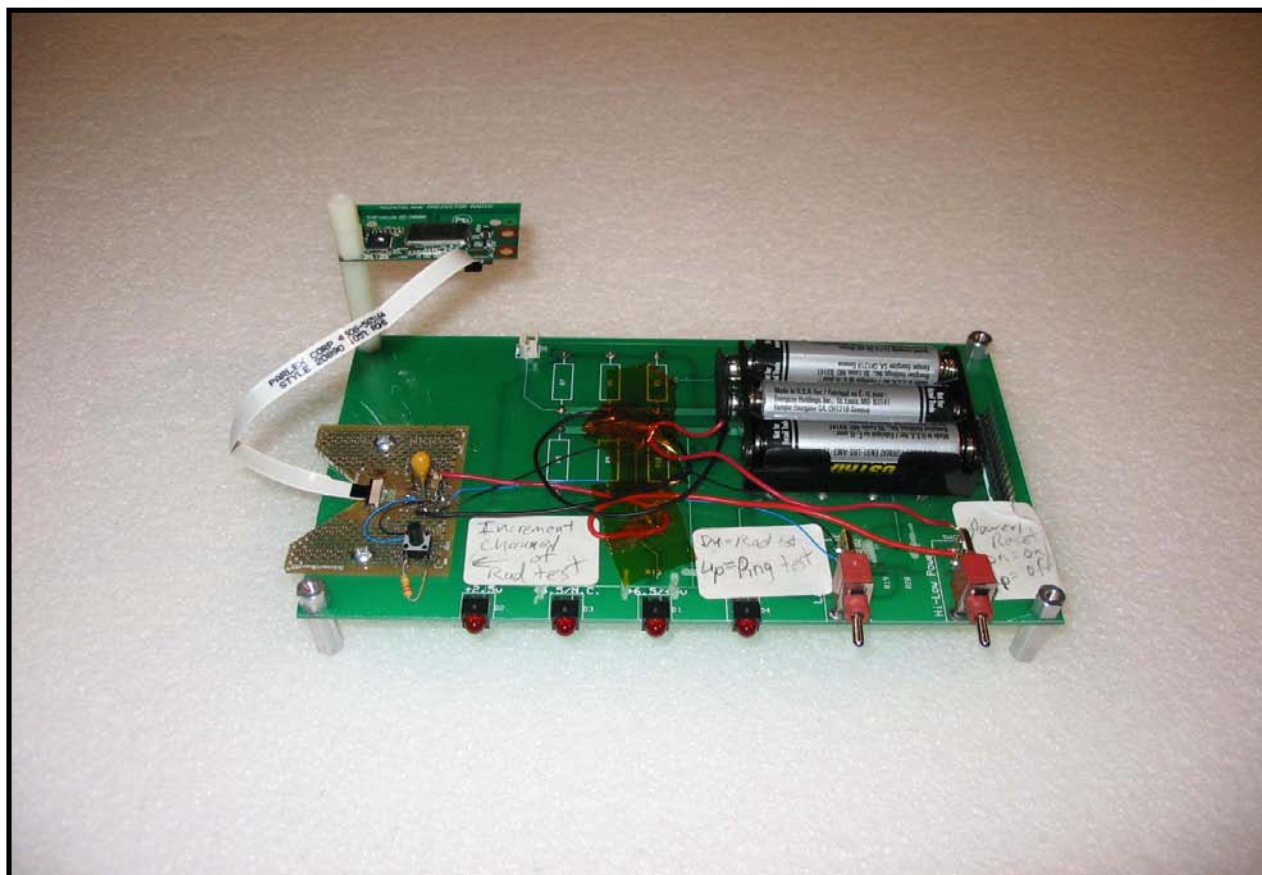
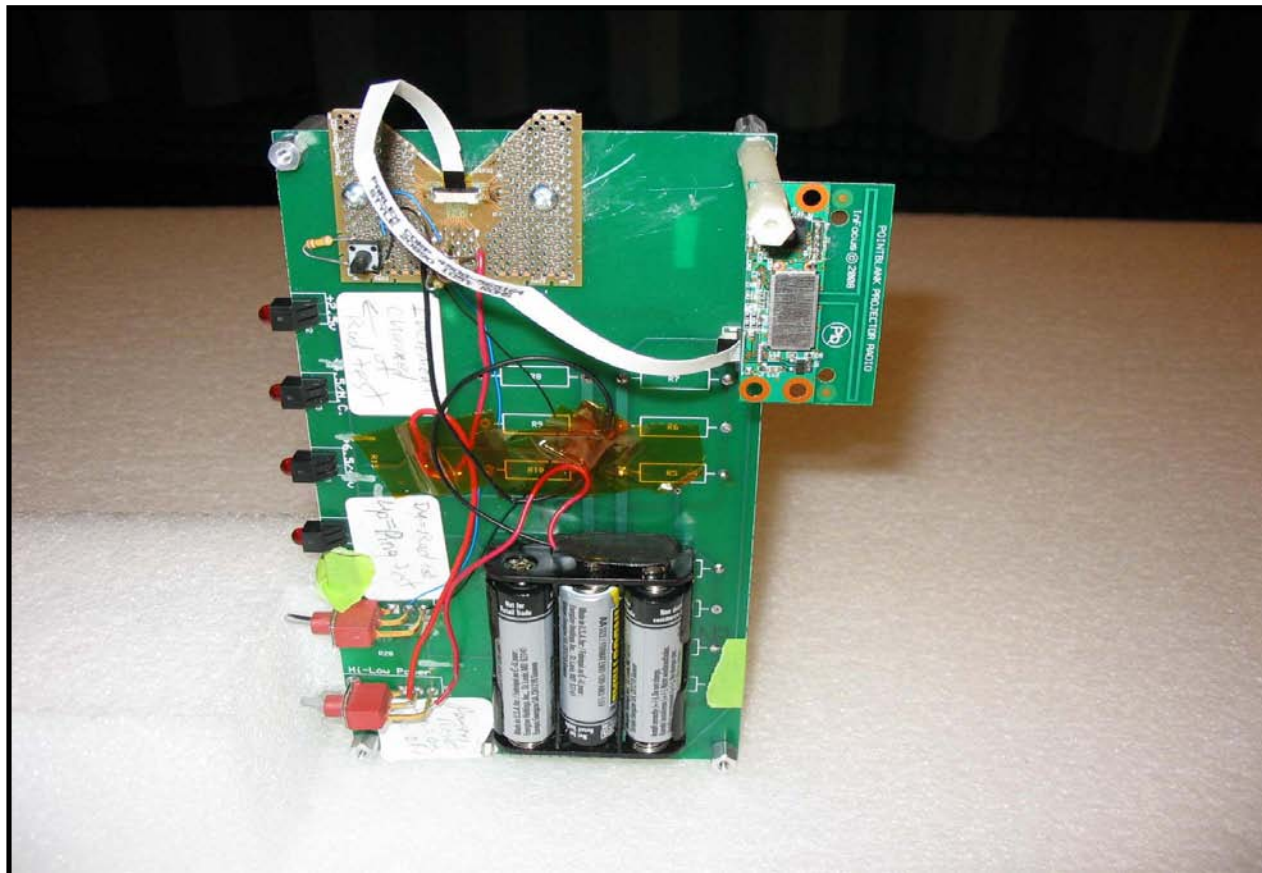
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DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	5	<i>Jennifer Herrett</i> Signature
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
9703.035	39.1	-10.7	15.0	1.0	3.0	0.0	H-Horn	AV	0.0	28.4	54.0	-25.6	Low Channel. EUT vertical.
9802.988	38.6	-10.9	7.0	1.0	3.0	0.0	H-Horn	AV	0.0	27.7	54.0	-26.3	Mid Channel. EUT vertical.
9703.023	38.0	-10.7	116.0	2.0	3.0	0.0	V-Horn	AV	0.0	27.3	54.0	-26.7	Low Channel. EUT on side.
9911.907	37.7	-11.0	102.0	1.9	3.0	0.0	V-Horn	AV	0.0	26.7	54.0	-27.3	High Channel. EUT on side.
9911.860	37.5	-11.0	4.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.5	54.0	-27.5	High Channel. EUT vertical.
9803.058	36.7	-10.9	146.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.8	54.0	-28.2	Mid Channel. EUT on side.
9700.212	55.1	-10.7	15.0	1.0	3.0	0.0	H-Horn	PK	0.0	44.4	74.0	-29.6	Low Channel. EUT vertical.
9805.135	54.9	-10.9	7.0	1.0	3.0	0.0	H-Horn	PK	0.0	44.0	74.0	-30.0	Mid Channel. EUT vertical.
9703.840	53.6	-10.7	116.0	2.0	3.0	0.0	V-Horn	PK	0.0	42.9	74.0	-31.1	Low Channel. EUT on side.
9912.513	52.8	-11.0	102.0	1.9	3.0	0.0	V-Horn	PK	0.0	41.8	74.0	-32.2	High Channel. EUT on side.
9799.558	51.0	-10.9	146.0	1.0	3.0	0.0	V-Horn	PK	0.0	40.1	74.0	-33.9	Mid Channel. EUT on side.
9910.658	51.0	-11.0	4.0	1.0	3.0	0.0	H-Horn	PK	0.0	40.0	74.0	-34.0	High Channel. EUT vertical.





Field Strength of Harmonics

