Amber Helm Development L.C.

92723 Michigan Hwy-152 Sister Lakes, MI 49047

EMC Test Report

#XMIT12-1502026FX

Issued 1/1/2016

Regarding the FCC Part 15, SubPart C testing



418 MHz Medallion Transmitter

FCCID: PPJ-SCXMIT12

Category: 15.231 Transmit Device

Judgments: FCC Part 15.231 – Compliant

RVLAP

NVLAP LAB CODE 200129-0

Prepared for: Al Wright

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Test Date(s): 11/9/2015-11/21/2015

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Table of Contents

Statements concerning this report	
FCC Required user statements:	
FCC Part 18 ISM Devices:	
FCC Part 15 Class A or B Digital Devices or Peripherals:	
Industry Canada Required user statements:	
Summary of Results	
Changes Made to Achieve Compliance:	
-	
EUT Descriptions	
Specifications:	
EUT Block Diagram:	
EUT Pictures	
Equipment Test Setup:	
Support Equipment & Cabling	
Setup Pictures	12
Measurement Report	16
Standards Applied to Test	16
Equipment Configuration	16
Test Methodology	16
Line Conducted:	16
Radiated:	16
Variance from Test Procedure:	17
Test Data	18
Radiated Spurious Emissions	18
Transmit Measurements	
Environment	25
APPENDIX A	26
Measurement Procedures	
Line Conducted	
Radiated	
Measurement Facilities & Equipment	
Test Site:	
Measurement Equipment Used:	
Cable Loss	
Antenna Factors	
AHD Accreditation	
NADTE Soal	30

Statements concerning this report

NVLAP Accreditation: NVLAP Lab Code 200129-0

The scope of AHD accreditation are the test methods of:

IEC/CISPR 22: Limits and methods measurement of radio disturbance

characteristics of information technology equipment.

FCC Method – 47 CFT Part 15: Digital Devices.

AS/NZS 3548: Electromagnetic Interference – Limits and Methods of

Measurement of Information Technology Equipment.

IEC61000-4-2 and Amend.1: Electrostatic Discharge Immunity

IEC61000-4-5: Surge Immunity

Test Data:

This test report contains data included in the scope of NVLAP accreditation.

Subcontracted Testing:

This report does not contain data produced under subcontract.

Test Traceability:

The calibration of all measuring and test equipment and the measured data using this equipment are traceable to the National Institute for Standards and Technology (NIST).

Limitations on results:

The test results contained in this report relate only to the Item(s) tested. Any electrical or mechanical modification made to the test item subsequent to the test date shall invalidate the data presented in this report. Any electrical or mechanical modification made to the test item subsequent to this test date shall require an evaluation to verify continued compliance.

Limitations on copying:

This report shall not be reproduced, except in full, without the written approval of AHD.

Limitations of the report:

This report shall not be used to claim product endorsement by NVLAP, FCC, or any agency of the US Government.

Statement of Test Results Uncertainty:

Following the guidelines of NAMAS publication NIS81 and NIST Technical Note 1297, the Measurement Uncertainty at a 95% confidence level is determined to be: +/- 2.3 dB

Retention of Records:

For equipment verified to comply with FCC regulations, the manufacturer is obliged to retain this report with the product records for ten years following the manufacture of the equipment that was tested.

For equipment verified to comply with RSS-210, the manufacturer is obliged to retain this report with the product records for as long as the model is being marketed in Canada.

FCC Required user statements:

FCC Part 18 ISM Devices:

1. For all industrial, scientific, medical (ISM) devices, the instruction manual or, if no instruction manual is provided, the product packaging, must provide information that addresses the following: (1) interference potential of the device, (2) maintenance of the system and (3) simple measures that can be taken to correct interference. RF lighting devices must add a statement similar to the following: "This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment, ships at sea or other critical navigation or communications equipment operating between 0.45-30 MHz." (Section 18.213)

In addition, Part 18 devices that are authorized under the DoC procedure shall also include in the instruction manual, on a separate sheet, or on the packaging the following: (1) identification of the product (e.g. name and model number), (2) a statement similar to "This device complies with Part 18 of the FCC Rules" (Section 18.212), and (3) the name and address of the responsible party (Section 2.909).

2. For products certified using the Declaration of Conformity approach, this FCC conformity LOGO is to be placed on the ISM Device.



FCC Part 15 Class A or B Digital Devices or Peripherals:

For products satisfying the FCC Part 15 Class A or Class B requirements the following are to be satisfied:

1. The following statement is required to be labeled on the product or, if the device is too small, in the user's manual:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2. A statement is required to be placed in the User's Manual shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For an FCC Part 15 Class A digital device or peripheral, the user instructions shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against

FCC Part 15 Testing for Medallion Transmitter

harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

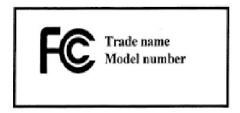
Modifications not expressly approved by the manufacturer could void the user's authority to operated the equipment under FCC rules.

Additionally, for products satisfying the FCC Part 15 Class B requirements the following are to be satisfied:

1. The User's Manual shall include this or similar statement:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- i. Reorient or relocate the receiving antenna.
- ii. Increase the separation between the equipment and receiver.
- iii. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- iv. Consult the dealer or an experienced radio/TV technician for help.
- 2. For products certified using the Declaration of Conformity approach,
 - a. The FCC conformity LOGO is to be placed on the Class B Digital Device.



b. The FCC requires a Compliance Information statement (Declaration of Conformity) to accompany each product to the end user.

Industry Canada Required user statements:

Applies to: [Category II Equipment]

1. For products satisfying the ICES-003, RSS-Gen and RSS-210 Issue 6 requirements the following are to be satisfied:

User manuals for license-exempt LPDs shall contain the following or equivalent statements in a conspicuous position:

"Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device."

If the antenna is detachable (i.e. selectable by the user), see the user manual requirement in Section 7.1.4. The following instructions in the user manual are also required:

"To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropic radiated power (e.i.r.p.) is not more than that permitted for successful communication."

The above statements may be placed on the device instead of the manual.

2. User Manual:

User manual shall also contain text declaring compliance to the limits found in this Standard in both English and French.

3. Equipment Labels:

Equipment subject to certification under the applicable RSS's, shall be permanently labeled on each item, or as an inseparable combination. The label must contain the following information for full compliance:

- (a) the certification number, prefixed by the term "IC:";
- (b) the manufacturer's name, trade name or brand name; and
- (c) a model name or number.

Equipment for which a certificate has been issued is not considered certified if it is not properly labeled.

The information on the Canadian label can be combined with the manufacturer's other labeling requirements.

If the device size is too small to put a label, the label can be included in the user's manual, upon agreement with Industry Canada.

Summary of Results

- 1. The device model number SCXMIT12 was tested for compliance with FCC Regulations, Part 15, SubPart B. These tests were performed at AHD EMC Laboratory following the procedures outlined in ANSI C63.4.
- 2. The SCXMIT12 transmitter module is marketed under one model name, DB4. This model includes an integrated momentary switch button.
- 3. The DB4 Model was tested for this report.
- 4. The device tested is compliant to the requirements of FCC Part 15 SubPart C 15.231 for low power periodic transmitter above 70 MHz.
- 5. The equipment under test was received on 11/9/2015 and this test series commenced on 11/9/2015.
- 6. The device uses a 12AE 12VDC Alkaline battery, so line conducted testing was not required.
- 7. No spurious radiated emissions were detected at 3 Meters.
- 8. The product deactivates transmit within 3.24 seconds after release.
- 9. This product does not use automated supervisory pulses.
- 10. Transmit fundamental was measured to be 11.54 dB within the 15.231 limit when adjusted for Duty Cycle.
- 11. Worst case transmit harmonic was found at 836 MHz. The signal was measured to be 5dB under the class B spurious emissions limit.
- 12. Worst case peak measurement was found at the harmonic frequency of 836 MHz. The signal was measured to be 12.3 dB under the peak limit.
- 13. 20 dB Bandwidth was measured to be 0.48 MHz under the limit at 418 MHz.

Changes Made to Achieve Compliance:

1. None

EUT Descriptions

Model: 418 MHz Medallion Transmitter

Model number: SCXMIT12

Serial/ID No: 20-325-0133-01

Description: 418 MHz Periodic Transmitter for use in hearing impaired alarm and signaling

applications.

The SCXMIT12 transmitter is marketed with an integrated momentary switch to alert hearing impaired individuals when the switch is depressed. The transmitter links with Silent Call receiver products to alert the customer. The table below represents the model number used and marketed with the SCXMIT12:

Model	Description
DB4	Door Bell sensor

Antenna: Linx Model ANT-418-HESM, Helical Antenna soldered to PCB, 1.7dBi peak gain.

PCBs: 20-300-014-01

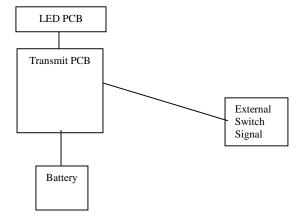
Specifications:

Input Power: 122AE 12VDC Alkaline Battery

Outputs Signals: 418 MHz signal

Input Signals: External passive momentary switch.

EUT Block Diagram:



EUT Pictures

•	Exterior View Front	Page 9
•	Exterior View Rear View	Page 9
•	Main PCB Rear	Page 10
•	Main PCB Front	Page 10
•	Battery	Page 10

Exterior View Front



Exterior View Rear View



Main PCB Rear



Main PCB Front



Battery

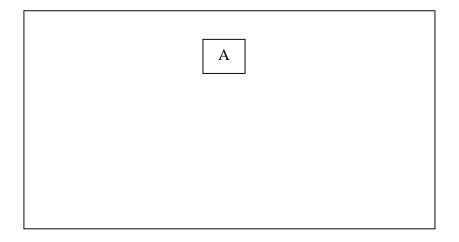


Equipment Test Setup:

Support Equipment & Cabling

Setup Diagram Legend	Description	Model	Serial No. / Part No.	EMC Consideration
A	418 MHz Medallion Transmitter with integrated momentary switch	DB4	20-325- 0133-01	Periodic Transmitter

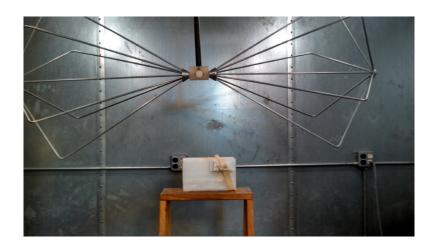
Block Diagram



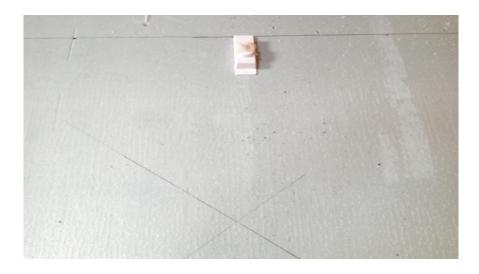
Setup Pictures

•	Radiated Prescreen Setup	Page 13
•	Spurious Radiated Setup Front View	Page 13
•	Spurious Radiated Setup Rear View with sub 1 GHz Antenna	Page 14
•	Transmit Setup – Flat Orientation	Page 14
•	Transmit Setup – End Orientation	Page 15
•	Transmit Setup – Side Orientation	Page 15
•	Harmonic Setup with Horn Antenna	Page 16

Radiated Prescreen Setup



Spurious Radiated Setup Front View



Radiated Setup Rear View with Sub 1GHz Antenna



Transmit Setup – Flat Orientation



Transmit Setup – End Orientation



Transmit Setup – Side Orientation



Harmonic Setup with Horn Antenna



Measurement Report

Standards Applied to Test

ANSI C63.4 – Radio Noise Emissions 2003.12 CFR47 FCC Part 15, SubPart B CFR47 FCC Part 15, SubPart C AHD test procedures TP0101LC, TP0102RA EN55022 ITE Disturbance 2005.11 EN61000-6-3 Generic 2007.2

Equipment Configuration

For the testing, the placement of the EUT and the support equipment was selected to –

- Be a representation of a configuration typical of user installation, and
- Comply with the minimum system configuration of ANSI C63.4.

Test Methodology

Line Conducted:

Line Conducted test procedures are described in Appendix A.

Radiated:

Spurious radiated testing was performed at a 3meter open field test site, and completed according to the procedures in FCC 15, SubPart B with supporting instructions from ANSI C63.4. Please reference Appendix A for further details on Test Methodology.

Note that distances less than 3 meters (i.e. 1 and 0.1 meter) may be used if signals are not detectable at specified distances, and distances compensated for within the tabulated measurements.

A scan of the EUT was made in a shielded room to study the emission profile of this EUT. This scan indicated low level spurious emissions from the unit.

The suspect signals recorded in the shielded room prescan were then measured at the 3-meter open area test site.

The EUT was scanned for radiated energy up to 4.18 GHz to meet FCC 15.33 requirements.

The EUT was tested in three orientations with horizontal and vertical antennal polarities to determine maximum signal. After determining that the maximized orientation as End Vertical, all measurements were recorded in this orientation.

The EUT under test was placed per ANSI C63.4

The EUT was exercised as follows:

- 1. Device was powered on with internal battery.
- 2. The device was activated with integrated button.
- 3. Evidence of operation was signal presence operation.

The cables were manipulated to produce the highest signal level relative to the limit.

The pictures, in the preceding pages, show the position of the equipment and cabling that produced the maximum signal level.

Variance from Test Procedure:

None

Test Data

Radiated Spurious Emissions

Vertically Polarized Class B Tabulated Spurious Quasi-Peak Measurements at 3 Meters

Frequency	Corrected Quasipeak Measurement	Turntable Azimuth	Antenna Height	FCC Class B Limit	Margin Class B
MHz	dBuV/m	deg	Mtr	dBuV/m	dBuV/m
74.00	17.00	0	1.0	40.00	23.00
140.00	11.00	0	1.0	43.50	32.50
167.00	13.00	0	1.0	43.50	30.50
193.00	15.00	0	1.0	43.50	28.50
201.00	16.00	0	1.0	43.50	27.50

All measured signals were noise floor – no signals detected

Horizontally Polarized Class B Tabulated Quasi-Peak Measurements at 3 Meters

Frequency	Corrected	Turntable	Antenna FCC		Margin
	Quasipeak	Azimuth	Height	Class B	
	Measurement			Limit	
MHz	dBuV/m	deg	Mtr	dBuV/m	dBuV/m
74.00	20.00	0	2.0	40.00	20.00
140.00	8.00	0	2.0	43.50	35.50
167.00	8.00	0	2.0	43.50	35.50
193.00	22.00	0	2.0	43.50	21.50
201.00	12.00	0	2.0	43.50	31.50

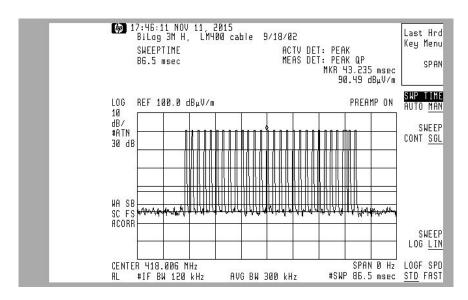
All measured signals were noise floor – no signals detected

Note that no non-harmonic spurious signals were found above 1 GHz.

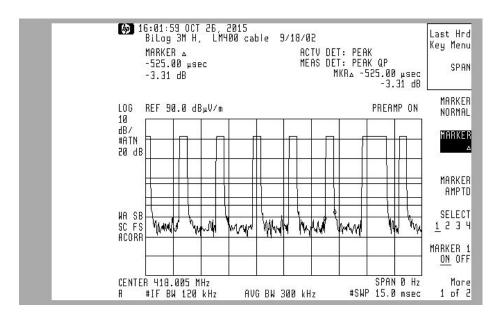
Transmit Measurements

Duty Cycle Calculation

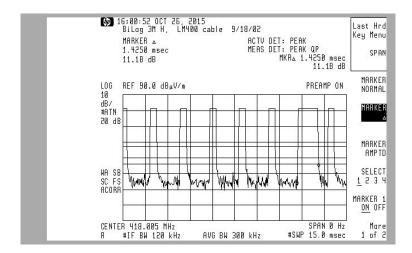
Single Pulse Train Plot (28 pulses)



Narrow Pulse Plot



Wide Pulse Plot

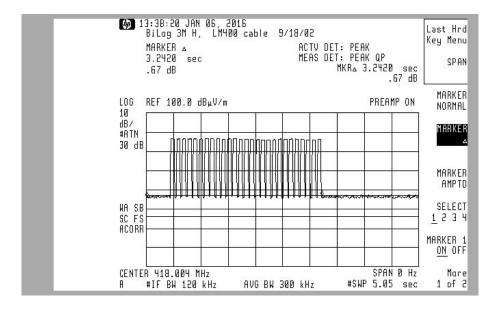


Tabulated Duty Cycle Calculation

mSec mSec mSec	dBuV
mSec	
Wide Wide Pulse Narrow Narrow Total "on time" / 100 Duty Cycle / 100 mSec Pulses Width Pulse Width time" / 100 / 100 mSec	Duty Cycle

5 Second Deactivation

Plot Identifying Max Deactivation Time



Model Description		Transmit Time
DB4	Door Bell sensor	3.24 Seconds

2 Second Security Polling Per Hour

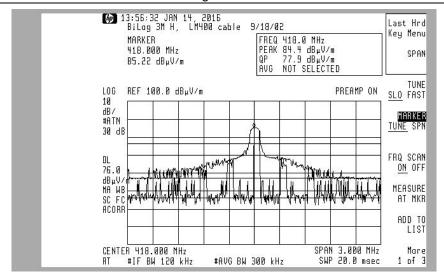
Table Identifying Max Supervisory Mode Transmit Per Hour By Model

Model	Description	Supervisory Mode
DB4	Door Bell sensor	NA

Transmit Fundamental

Transmit Fundamental Signal Plot

FCC Part 15 Testing for Medallion Transmitter



Transmit Fundamental Limit Calculation

Frequency	Frequency	Limit	Limit point	Slope	Intercept	Test	Limit
Point 1	Point 2	point 1	2			Frequency	
		_					
MHz	MHz	uV/m	uV/m	uV/M/MHz	uV/M	MHz	dBuV/M
470.00	260.00	12500.00	3750.00	41.67	-7.08E+03	418.00	1.03E+04

Note: Limit is equivalent to 80.03 dBuV/M

Tabulated Transmit Fundamental Measurement Data

Ī	418.00	84.40	-15.65	68.75	2738.32	10333.33	7595.01	11.54
	MHz	dBuV	dB	dBuV/M	uV/M	uV/M	uV	dB
						418 MHz		
		Measurement	Adjustment	Measurement	Measurement	Limit @		
	Frequency	Maximum	Duty Cycle	Average	Average	15.231	Margin	Margin

Transmit Spurious / Harmonic Limit Calculation

Frequency	Frequency	Limit	Limit point	Slope	Intercept	Test	Limit
Point 1	Point 2	point 1	2			Frequency	
MHz	MHz	uV/m	uV/m	uV/M/MHz	uV/M	MHz	dBuV/M
470.00	260.00	1250.00	375.00	4.17	-7.08E+02	418.00	1.03E+03

Note: Limit is equivalent to 60.03 dBuV/M. For convenience, Spurious limits used in actual measurements.

Tabulated	Transmit	Harmonic	Signals

Frequency	Peak Measurement	Limit	Margin
MHz	dBuV	dB	dBuV/M
836.00	41.00**	46.00	5.00
*1250.00	14.94	54.00	39.06
#1672.00	19.65	54.00	34.35
2090.00	17.06	54.00	36.94
2508.00	14.15	54.00	39.85
*2926.00	11.00	54.00	43.00
*3344.00	11.70	54.00	42.30
#*3762.00	11.70	54.00	42.30
#*4180.00	12.00	54.00	42.00

Note that peak measurements recorded, well within Quasipeak and Average Limits

* Signal not found, instrument noise floor measurement

Restricted Band Signal (same limits apply)

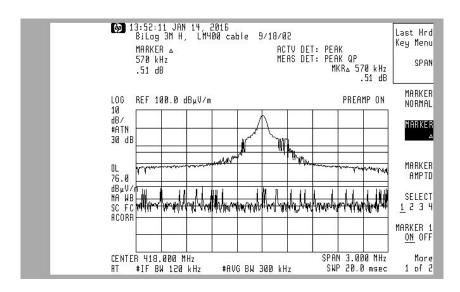
**Quasipeak Measurement

Tabulated Peak Data

Frequency	Peak	Limit	Margin
	Measurement		
MHz	dBuV	dB	dBuV/M
418.00	84.40	100.00	15.60
836.00	53.70	66.00	12.30
*1250.00	14.94	74.00	59.06
#1672.00	19.65	74.00	54.35
2090.00	17.06	74.00	56.94
*2508.00	14.15	74.00	59.85
*2926.00	11.00	74.00	63.00
*3344.00	11.70	74.00	62.30
#*3762.00	11.70	74.00	62.30
4180.00	12.00	74.00	62.00

* Signal not found, instrument noise floor measurement # Restricted Band Signal (same limits apply)

Plot of 20 dB BW



Tabulated 20 dB BW Measurement

MHz 418.00	MHz 0.57	MHz 1.05	dBuV/M 0.48
Trequency	Wedstrement	Emmt	wargiii
Frequency	Measurement	Limit	Margin

Environment

The test was performed with the equipment under test, and measurement equipment inside the all-weather enclosure. Ambient temperature was 60 deg F, the relative humidity 40%.

APPENDIX A

Measurement Procedures

Line Conducted

The system was placed upon a 1 x 1.5 meter non-metallic table 80cm from the ground floor and 40cm from the vertical conducting plane in the prescribed setup per ANSI C63.4. This table is housed in a shielded enclosure to prevent the detection of unwanted ambients.

The EUT, or host unit if applicable, was connected to the LISN being monitored by the EMI Receiver. The remaining support devices requiring mains power were connected to a second LISN.

The EUT was continuously exercised by methods supplied by the manufacturer.

While monitoring the display of the EMI Receiver, via remote video monitor, the cables were manipulated to determine a position that maximized the emissions being observed. Once the highest amplitude relative to the limit was determined for the Phase current carrying line the procedure was repeated for the Neutral current carrying line.

The configuration that created an emission closest to the limit was used during the course of taking final measurements. Pictures of this final configuration are recorded in this report.

The principal settings of the EMI Receiver for line conducted testing include:

Bandwidth = 9kHz

Detector Function: scanning and signal search = Peak Detection Mode

measurements = Quasi Peak Detection and Average Detection

The cable losses of the coax used in line conducted testing are charted in this appendix.

Radiated

The system was placed upon a 1 x 1.5 meter non-metallic table 80cm from the open field site ground plane in the prescribed setup per ANSI C63.4, Figure 9(c).

The table sits upon a remote controlled turntable. The receiving antenna, located at the appropriate standards distance of 3 or 10 meters from the table center, is also remote controlled.

The EUT was continuously exercised by software supplied by the manufacturer.

Preliminary tests were done at the 3 meter open field test site. The final tests are done at the appropriate standards distance of 3 or 10 meters. The "Biconical/Log Periodic" broadband antenna connected to an EMI Receiver, meeting CISPR 16, is used throughout the testing.

Note that distances less than 3 meters (i.e. 1 and 0.1 meter) may be used if signals are not detectable at specified distances, and distances compensated for within the tabulated measurements.

During the preliminary scans and while monitoring the display of the EMI Receiver, the turntable was rotated 360 degrees and the receiving antenna height varied from 1 to 4 meters to search out the highest emissions. At the significant emissions, the cables were manipulated to determine a position that maximized the emissions being observed. Once the cable position was determined that presented the highest amplitude relative to the limit for Vertical polarized emissions the procedure was repeated for the Horizontal polarization.

The configuration that created an emission closest to the limit was used during the course of taking final measurements. Pictures of this final configuration are recorded in this report.

The principal settings of the EMI Receiver for radiated signal testing between 30 MHz and 1 GHz include:

Bandwidth: 120kHz

Detector Function: scanning and signal search = Peak Mode

measurements = Quasi Peak Mode.

Search Range: 30MHz to 1000MHz or to 2GHz as appropriate

The principal settings of the EMI Receiver for radiated testing above 1 GHz include:

Bandwidth: 1 MHz

Detector Function: scanning and signal search = Peak Mode

Duty Cycle Compensated Measurements = Peak Mode

Direct Signal Measurements = Average Mode.

Search Range: Above 1000MHz as required

The cable loss of the coax used in radiated scanning is charted in this appendix. The antenna factors, for the test distance used, are charted in this appendix.

The resultant Field Strength (FS) is a summation in decibels (dB) of the Indicated Receiver Level (RF), the Antenna Correction Factor (AF), and the Cable Loss Factor (CF). If a PreAmplifier (PA) is used, its gain (dB) is subtracted from the above sum.

Formula 1: FS(dBuV/m) = RF(dBuV) + AF(dB/m) + CF(dB) - PA(dB)

To convert the Field Strength dBuV/m term to uV/m, the dBuV/m is first divided by 20. The Base 10 AntiLog is taken of this quotient. The result is the Field Strength value in uV/m terms.

Formula 2: FS(uV/m) = AntiLog[(FS(dBuV/m))/20]

Measurement Facilities & Equipment

Test Site:

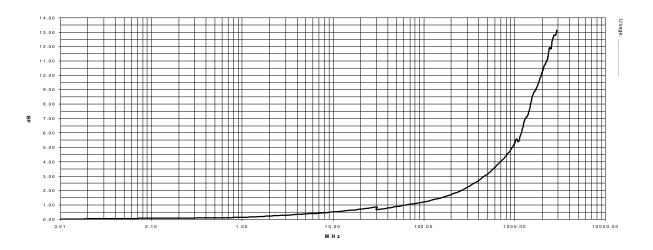
The AHD test facility is centered on 9 acres of rural property near Sister Lakes, Michigan. The mailing address is 92723 Michigan Hwy152, Sister Lakes, 49047. This test facility is NVLAP accredited (LabCode 200129-0). It has been fully described in a report filed with the FCC (No.90413) and Industry Canada (file:IC3161).

Measurement Equipment Used:

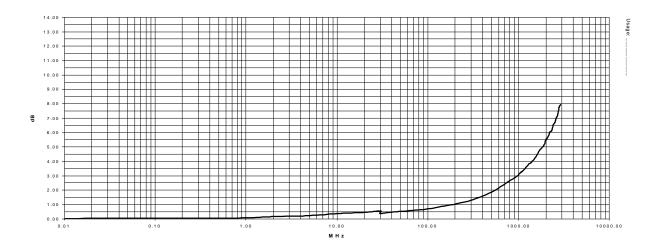
Equipment	Model	S/N	Last Cal Date	Calibration Interval
HP EMI Receiver system	HP 8546A			
RF Filter Section	HP-85460A	3448A00267	22 Jan-15	12 months
RF Receiver Section	HP-85462A	3807A00437	22 Jan-15	12 months
EMCO BiconiLog Antenna	3142	1069	13- Feb-15	12 months
EMCO Double Ridged Horn	3115	2788	27-Jul-15	12 months
Solar LISN	8012-50-R-24-BNC	962137	9 Mar-15	12 months
Solar LISN	8012-50-R-24-BNC	962138	23-Dec-14	12 months
(3-m) LMR-400 Ultra Flex	LMR400	C090804	17-Jul-15	6 months
(3-m) CS-3227 RG8	CS-3227	C060914	17-Jul-15	6 months
(10-m) Amelco 50ohm Coax	RG213U	9903-10ab	17-Jul-15	6 months
(LCI) Double shielded 50ohm Coax	RG58/U	920809	17-Jul-15	12 months
Keytek Surge	711B	8511854	05-Jun-15	12 months
Schaffner ESD	NSG432	01027	30-May-15	12 months
Schaffner EFT	NSG600/641	0113	05-Jun-15	12 months
HP Oscilloscope	54100D	2510A00511	12-Jan-15	12 months
Compliance Design Biconical Antenna	B100	016460	6-August-15	36 months
Compliance Design Biconical Antenna	B200	A10102	14-August-15	36 months
Compliance Design Biconical Antenna	B300	A10103	6-August-15	36 months

Cable Loss

Line Conducted 150KHz through 30MHz, Coax #920809 Last Calibration date: 17-Jul-15

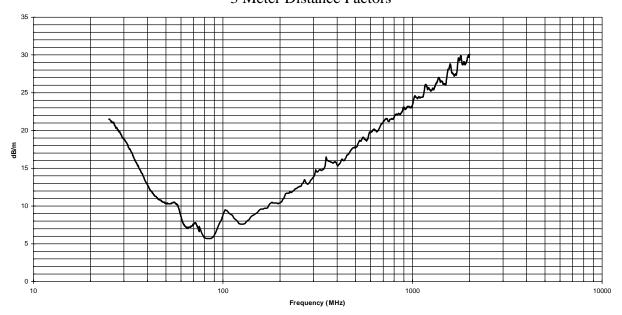


Radiated at 3 meters; 30MHz through 3000MHz, Coax #C090804 Last Calibration date: 17-Jul-15

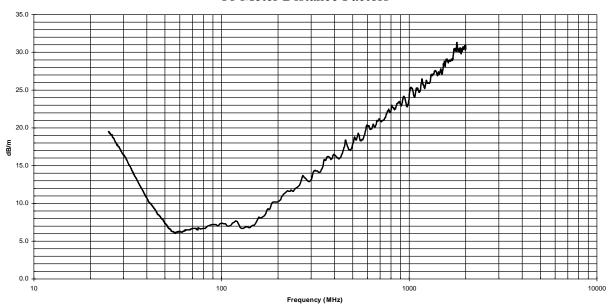


Antenna Factors

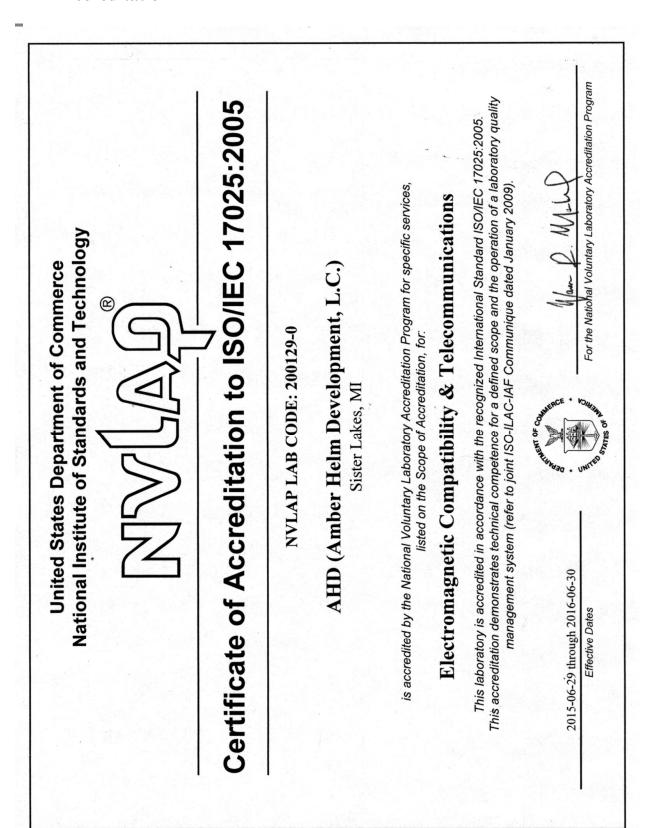
EMCO Model 3142 Antenna #1069 Last Calibration Date; 13- Feb-15 3 Meter Distance Factors



10 Meter Distance Factors



AHD Accreditation



FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division 7435 Oakland Mills Road Columbia, MD 21046

March 06, 2015

AHD (Amber Helm Development, L.C.) 92723 Michigan Highway 152, Sister Lakes, MI 49047

Attention:

Re:

Accreditation of AHD (Amber Helm Development, L.C.)

Designation Number: US5339 Test Firm Registration #: 559716

Dear Sir or Madam:

We have been notified by National Voluntary Laboratory Accreditation Program that AHD (Amber Helm Development, L.C.) has been accredited as a Conformity Assessment Body (CAB).

At this time AHD (Amber Helm Development, L.C.) is hereby designated to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Parts 15 and 18 of the Commission's Rules.

This designation will expire upon expiration of the accreditation or notification of withdrawal of designation.

George Tannahill

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