

TEST REPORT

Report Number: 102455484MPK-001

Project Number: G102455484

February 11, 2016

Testing performed on the

Proximity RFID Reader

Model Number: P-3500

FCC ID: T8I-PROX

IC: 6504A-PROX

to

FCC Part 15 Subpart C (15.209)

FCC Part 15 Subpart C (15.207)

RSS-210 Issue 8

FCC Part 15, Subpart B

Industry Canada ICES-003

Class: A

for

Farpointe Data, Inc.

Test Performed by:

Intertek

1365 Adams Court

Menlo Park, CA 94025 USA

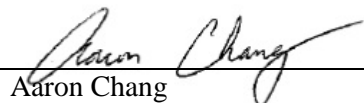
Test Authorized by:

Farpointe Data, Inc.

1376 Borregas Avenue

Sunnyvale, CA 94089, USA

Prepared by:


Aaron Chang

Date: February 11, 2016

Reviewed by:


Krishna-K Vemuri

Date: February 11, 2016

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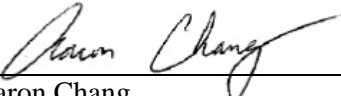
VERIFICATION OF COMPLIANCE

Report No. 102455484MPK-001


Verification is hereby issued to the named APPLICANT and is VALID ONLY for the equipment identified hereon for use under the rules and regulations listed below.

Equipment Under Test:	Proximity RFID Reader
Trade Name:	Fairpointe Data, Inc.
Model No.:	P-3500
Applicant:	Farpointe Data, Inc.
Contact:	Kirk Bierach
Address:	Farpointe Data, Inc. 1376 Borregas Avenue Sunnyvale, CA 94089
Country	USA
Tel. number:	408-731-8700
email:	kirkb@farpointedata.com
Applicable Regulation:	FCC Part 15, Subpart C (15.209) FCC Part 15, Subpart C (15.207) RSS-210 Issue 8 FCC Part 15, Subpart B Industry Canada ICES-003
Equipment Class:	Class A
Date of Test:	February 01 & 02, 2016

We attest to the accuracy of this report:



Aaron Chang
Project Engineer



Krishna K Vemuri
EMC Team Leader



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EXECUTIVE SUMMARY

Test	Reference FCC	Reference IC	Result
Transmitter Radiated Emissions	15.209	RSS 210 (2.5)	Complies
AC Line Conducted Emission (Transmitting mode)	15.207	RSS GEN	Complies
Radiated Emission from Digital Part and Receiver	15.109	ICES 003	Complies
AC Line Conducted Emission	15.107	ICES 003	Complies
Antenna Requirement	15.203	RSS GEN	Complies. The EUT does not have an external antenna connector
Occupied Bandwidth	15.215(c)	RSS GEN	Complies



1.0 Job Description

The Equipment under Test (EUT) is the P-3500 Proximity Reader; model number P-3500.

1.1 Client Information

The EUT has been tested at the request of:

Company: Farpointe Data, Inc.
1376 Borregas Avenue
Sunnyvale, CA 94089, USA

Name of contact: Kirk Bierach
Telephone: 408-731-8700
Email: kirkb@farpointedata.com

1.2 Test Plan Reference

Tests were performed to the following standards:

- FCC Part 15, Subpart C (15.209)
- FCC Part 15, Subpart C (15.207)
- RSS-210 Issue 8
- FCC Part 15, Subpart B
- Industry Canada ICES-003



1.3 Description of Equipment Under Test (EUT)

Description	Proximity RFID Reader
Model No.	P-3500
FCC Identifier	T8I-PROX
IC Identifier	6504A-PROX
Operating Frequency	Single frequency, 125 kHz
Number of Channels	1
Type of Modulation	CW
Antenna Type	Internal Antenna

EUT receive date: February 1, 2016

EUT receive condition: The EUT was received in good condition with no apparent damage.

Test start date: February 1, 2016

Test completion date: February 2, 2016

The test results in this report pertain only to the item tested.

Farpointe Data, Inc. supplied the following description of the EUT:

The P-3500 is a Proximity RFID Reader designed for access control systems. It operates at 125kHz.

1.4 Equipment Under Test

Ref No.	Description	Model Number	Serial Number
1	Proximity Reader	P-3500	ENG001

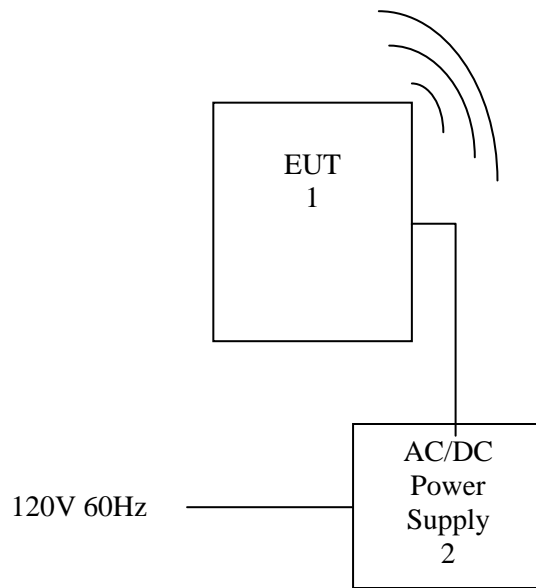
System Support Equipment

Ref No.	Description	Model Numbers	Serial Number
2	AC/DC Power Supply Adapter	M42012	250426

1.5 Block Diagram of Test Setup

The diagrams showed below details the interconnection of the EUT and support equipment. For specific layout, refer to the test configuration photograph in the relevant section of this report.

Test Setup for Radiated Emissions Tests



S = Shielded U = Unshielded	m = Length in Meters
--	-----------------------------



1.6 Justification

The EUT was configured for testing in a table-top configuration, as specified by Farpointe Data, Inc.

Per the client, the highest clock frequency used in the EUT is 20MHz. Therefore, Radiated emissions was only tested up to 1 GHz.

1.7 Mode(s) of Operation

EUT was continuously transmitting during the tests.

1.8 Modifications Required for Compliance

No modifications were made during compliance testing in order to bring the product into compliance.



2.0 Test Environment for Emissions Testing

2.1 Test Facility

The test facility is located at 1365 Adams Court, Menlo Park, California. The test site is a 10-meter semi-anechoic chamber. The site meets the characteristics of CISPR 16-1 and ANSI C63.4. For measurements, a remotely controlled flush-mount metal-top turntable is used to rotate the EUT a full 360 degrees. A remote controlled non-conductive antenna mast is used to scan the antenna height from one to four meters.

The A2LA certificate number for this site is 1755-01.

The Industry Canada (IC) Site Number is 2042L-1.

2.2 Test Equipment

Table 2-1 contains a list of the test equipment used during the testing.

Table 2-1 List of Test Equipment

Equipment	Manufacturer	Model/Type	Asset #	Cal Int	Cal Due
LISN	FCC	FCC-LISN-50-50-M-H	ITS 00551	12	06/02/16
Passive Loop Antenna	EMCO	6512	ITS 01598	12	09/10/16
BI-Log Antenna	Antenna Research	LPB-2513	ITS 00355	12	09/11/16
Pre-Amplifier	Sonoma Instrument	310	ITS 01314	12	09/10/16
EMI Receiver	Rohde & Schwarz	ESU	ITS 00961	12	06/02/16



2.3 Example Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor. Then by subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - PA + DCF$$

Where

- FS = Field Strength in dB ($\mu\text{V}/\text{m}$)
- RA = Receiver Amplitude (including preamplifier) in dB (μV)
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB (1/m)
- PA = Preamplifier Factor in dB
- DCF = Distance Correction Factor dB (for measurements made at X meters when compared to Y meter limits, $40\log(X/Y)$ for below 30MHz and $20\log(X/Y)$ for above 30MHz)

Assume a receiver reading of 52.0 dB (μV) is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted and the Distance Correction Factor of 10.5 dB is added, giving field strength of 42.5 dB ($\mu\text{V}/\text{m}$).

$$\begin{aligned} RA &= 52.0 \text{ dB } (\mu\text{V}) \\ AF &= 7.4 \text{ dB } (1/\text{m}) \\ CF &= 1.6 \text{ dB} \\ PA &= 29.0 \text{ dB} \\ DCF &= 10.5 \text{ dB} \\ FS &= RF + AF + CF - PA + DCF \\ FS &= 52.0 + 7.4 + 1.6 - 29.0 + 10.5 \\ FS &= 42.5 \text{ dB } (\mu\text{V}/\text{m}) \end{aligned}$$



2.4 Measurement Uncertainty

Compliance of the product is based on the measured value. However, the measurement uncertainty is included for informational purposes.

Radiated Emission:

The uncertainty in the measured field strength is estimated as follows, for a minimum confidence probability of 95 %

Freq. Range	Detection Mode	Uncertainty
30 MHz to 1000 MHz	Quasi-peak	± 4.2 dB
1 GHz to 18 GHz	Average	± 5.1 dB

Conducted Emission:

The uncertainty in the measured voltage is estimated as follows, for a minimum confidence probability of 95 %

Freq. Range	Detection Mode	Uncertainty
150 kHz to 30 MHz	Average	± 2.6 dB
	Quasi-peak	± 2.6 dB



3.0 Emissions Test Results

3.1 Transmitter Radiated Emissions

FCC: 15.209

IC: RSS-210

3.1.1 Test Limits

Limits for Electromagnetic Radiated Disturbance, FCC Section 15.209(b)& RSS-GEN

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

In addition, the level of any unwanted emissions from an intentional radiator operating under these general provisions shall not exceed the level of the fundamental emission.



3.1.2 Test Procedure

Radiated emission measurements were performed from 9 kHz to 1GHz. In the frequency range from 9 kHz to 1GHz the Quasi-peak value of the Field Strength (FS) is measured. The measuring receiver meets the requirements of Section One of CISPR 16 and the measuring antenna correlates to a balanced dipole.

The EUT is placed on a plastic table that is 80 cm in height on top of a turntable. If the EUT attaches to peripherals, they are connected and operational (as typical as possible). During testing, all cables were manipulated to produce worst-case emissions. The signal is maximized through rotation. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters.

Radiated emission measurements were performed from 9 kHz to 1 GHz.

Analyzer resolution was:

200Hz or greater for frequencies below 150kHz

9 kHz or greater for frequencies between 150kHz and 30 MHz

100 kHz or greater for frequencies between 30 MHz to 1000 MHz

Below 30 MHz

Radiated emissions are taken at 10 meter for frequencies below 30MHz. An inverse proportionality factor of 40 dB per decade should be used to normalize the measured data to the specified distance for determining compliance.

Above 30 MHz

During the test the EUT is rotated and the measuring antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters.

Radiated emissions are taken at 10 meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. All readings are extrapolated back to the equivalent 3 meter reading using inverse scaling with distance.

Data is included of the worst-case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

Equipment was setup as “Transmission Mode.” See section 1.5 for setup details.

Equipment setup for radiated disturbance tests followed the guidelines of ANSI C63.4.

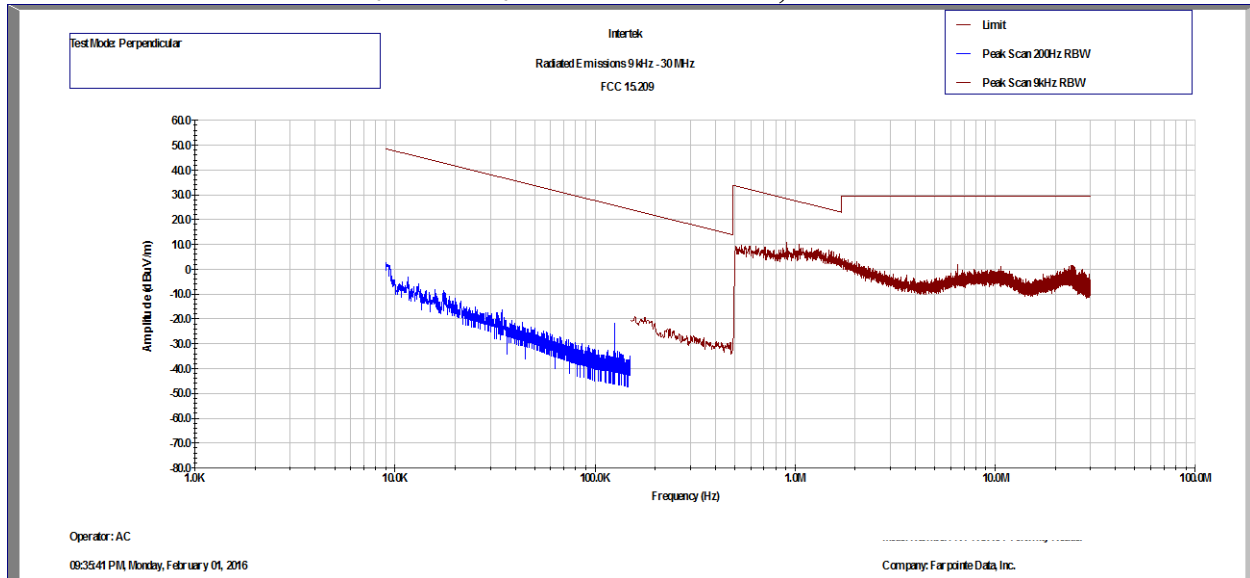
Tested By:	Aaron Chang
Test Date:	February 01, 2016



3.1.3 Test Results

The EUT met the radiated disturbance requirements of FCC 15.209 for an Intentional Radiator.

9kHz to 30MHz Radiated Disturbance, FCC 15.209

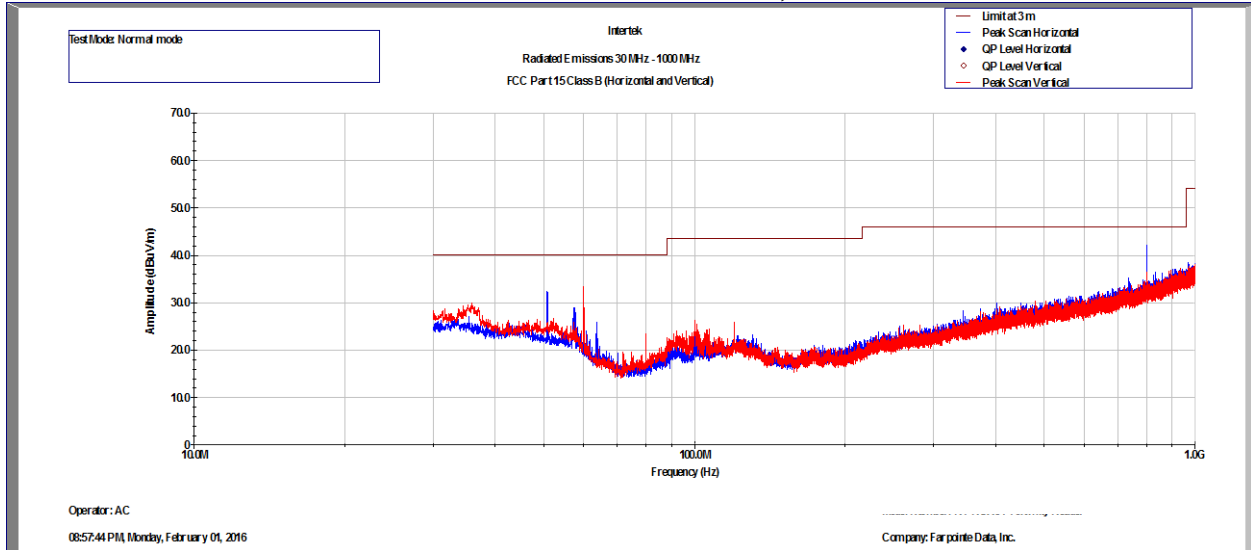


Frequency	QP Level	Limit @300m	Margin	Raw Value	Cable	Amp Gain	Antenna Factor	DCF
(kHz)	dB(uV/m)	dB(uV/m)	dB	dB(uV)	dB	dB	dB(1/m)	dB
125	-21.7	25.7	-47.4	5.3	0.1	32.0	64.1	-59.1

Note: Measurements made with antenna axis in Parallel and Perpendicular. The worst case data is reported.

Result:	Complies
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30MHz to 1GHz Radiated Disturbance, FCC 15.209



Intertek Testing Services
 Radiated Emissions 30 MHz - 1000 MHz
 FCC Part 15.209

Model Number: P-3500 Proximity Reader
 Company: Fairpointe Data, Inc.

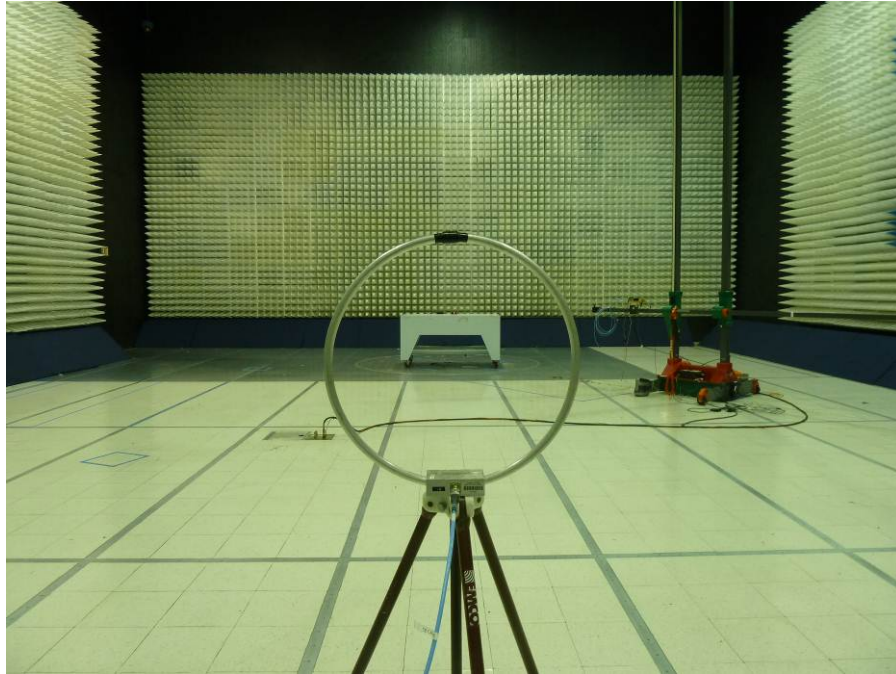
QP-Vertical										
Frequency	Quasi Pk FS	Limit@3m	Margin	RA	Cable	AG	DCF	AF	Azimuth	Height
MHz	dB(uV/m)	dB(uV/m)	dB	dB(uV)	dB	dB	dB	dB(1/m)	deg	cm
60.0215	33.3	40	-6.7	43.1	0.8	32	10.5	10.9	200	100
801.878	36.5	46	-9.5	33	3.8	31.9	10.5	21.1	220	100
895.482	37	46	-9.0	32	4	31.4	10.5	21.9	208	100

QP-Horizontal										
Frequency	Quasi Pk FS	Limit@3m	Margin	RA	CF	AG	DCF	AF	Azimuth	Height
MHz	dB(uV/m)	dB(uV/m)	dB	dB(uV)	dB	dB	dB	dB(1/m)	deg	cm
50.758	32.4	40	-7.6	38.8	0.8	32	10.5	14.3	302	400
57.386	29.0	40	-11.0	37.8	0.8	32	10.5	11.9	234	100
801.829	40.2	46	-5.8	36.7	3.8	31.9	10.5	21.1	198	100

Result: Complies by 5.8 dB

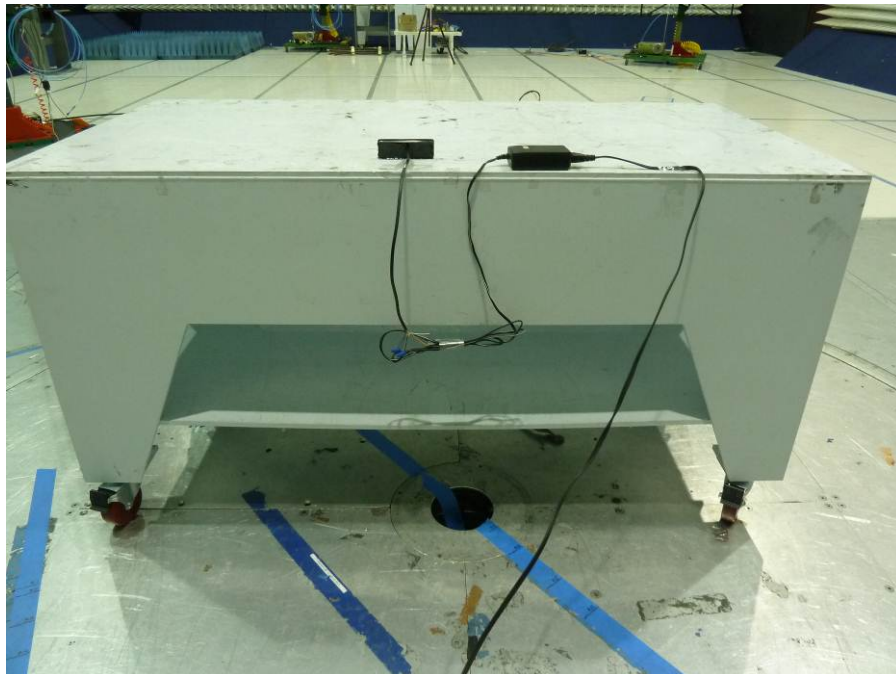
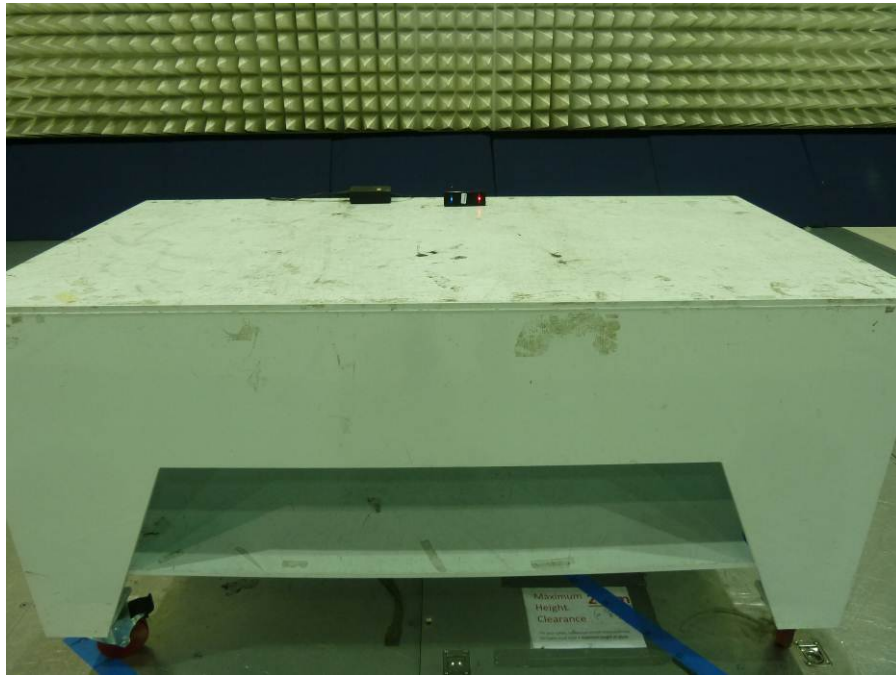
3.1.4 Test Configuration Photographs

The following photographs show the testing configurations used.



Electromagnetic Radiated Disturbance Setup Photograph

3.1.4 Test Configuration Photograph (Continued)



Electromagnetic Radiated Disturbance Setup Photograph



3.2 Radiated Emissions from Digital Parts

FCC: 15.109

IC: ICES-003

3.2.1 Test Limits

Limits for Electromagnetic Radiated Disturbance, FCC Section 15.109(b)

Frequency (MHz)	Class A at 10m dB(μV/m)	Class B at 3m dB(μV/m)
30-88	39.0	40.0
88-216	43.5	43.5
216-960	46.4	46.0
Above 960	49.5	54.0

Note: Three sets of units are commonly used for EMI measurement, decibels below one milliwatt (-dBm), decibels above a microvolt (dBμV), and microvolts (μV). To convert between them, use the following formulas: $20 \text{ LOG}_{10}(\mu\text{V}) = \text{dB}\mu\text{V}$, $\text{dBm} = \text{dB}\mu\text{V} - 107$

Alternative limits per Section 15.109(g):

Radiated Emissions Limits, CISPR 22

Frequency (MHz)	Class A at 10m dB(μV/m)	Class B at 10m dB(μV/m)
30-230	40.0	30.0
230-1000	47.0	37.0

Note: The lower limit shall apply at the transition frequency.



3.2.2 Test Procedure

Measurements of the radiated field in the frequency range of 30 MHz to 1000 MHz are made with the antenna located at a distance of 10 meters from the EUT and measurements in the frequency range above 1000 MHz are made with the antenna located at a distance of 3 meters from the EUT. The measuring receiver meets the requirements of Section One of CISPR 16 and the measuring antenna correlates to a balanced dipole.

Measurements of the radiated field below 1000 MHz are made with the antenna located at a distance of 10 meters from the EUT. If the field-strength measurements at 10m cannot be made because of high ambient noise level or for other reasons, measurements of Class B equipment may be made at a closer distance, for example 3m. An inverse proportionality factor of 20 dB per decade should be used to normalize the measured data to the specified distance for determining compliance.

The antenna is adjusted between 1m and 4m in height above the ground plane for maximum meter reading at each test frequency.

The antenna-to-EUT azimuth is varied during the measurement to find the maximum field-strength readings.

The antenna-to-EUT polarization (horizontal and vertical) is varied during the measurements to find the maximum field-strength readings.

The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. The table is constructed of non-conductive materials.

Floor standing EUTs are placed on a horizontal metal ground plane and isolated from the ground plane by 3 to 12 mm of insulating material.

Equipment was setup as "Transmission Mode." See section 1.5 for setup details.

Equipment setup for radiated disturbance tests followed the guidelines of ANSI C63.4.

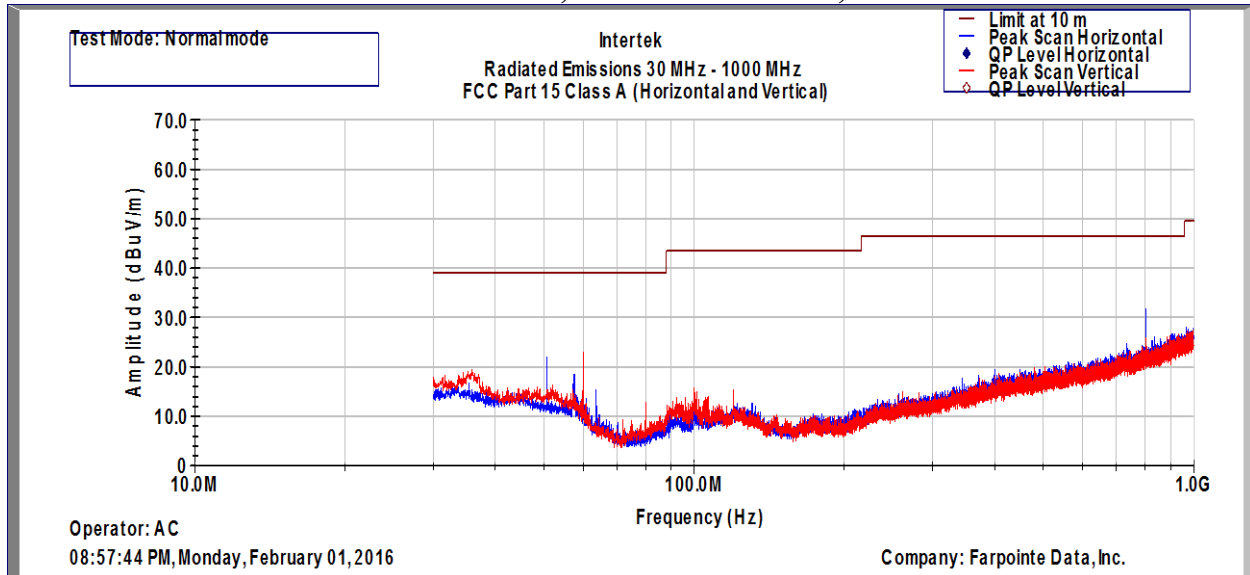
Tested By:	Aaron Chang
Test Date:	February 1, 2016



3.2.3 Test Results

The EUT met the radiated disturbance requirements of FCC and ICES 003 for a Class A device.

FCC and ICES 003, Radiated Disturbance, 15.109



Intertek Testing Services
 Radiated Emissions 30 MHz - 1000 MHz
 FCC Part 15.109 Class A

Model Number: P-3500 Proximity Reader
 Company: Fairpointe Data, Inc.

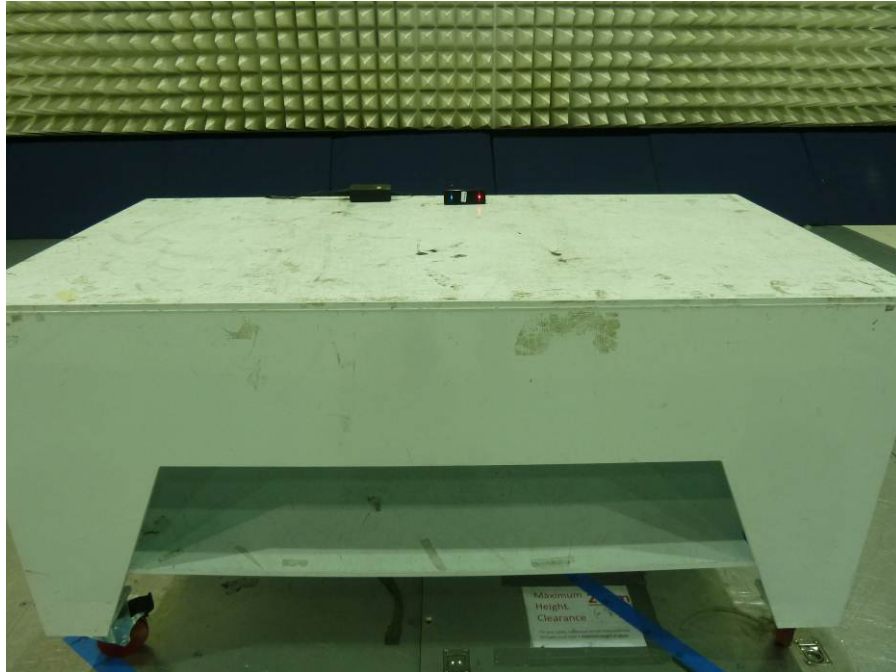
QP-Vertical									
Frequency	Quasi Pk FS	Limit@10m	Margin	RA	Cable	AG	AF	Azimuth	Height
MHz	dB(uV/m)	dB(uV/m)	dB	dB(uV)	dB	dB	dB(1/m)	deg	cm
60.0215	22.8	39	-16.2	43.1	0.8	32	10.9	200	100
801.878	26.0	46.4	-20.4	33.0	3.8	31.9	21.1	220	100
895.482	26.5	46.4	-19.9	32.0	4	31.4	21.9	208	100

QP-Horizontal									
Frequency	Quasi Pk FS	Limit@10m	Margin	RA	CF	AG	AF	Azimuth	Height
MHz	dB(uV/m)	dB(uV/m)	dB	dB(uV)	dB	dB	dB(1/m)	deg	cm
50.758	21.9	39	-17.1	38.8	0.8	32	14.3	302	400
57.386	18.5	39	-20.5	37.8	0.8	32	11.9	234	100
801.829	29.7	46.4	-16.7	36.7	3.8	31.9	21.1	198	100

Result: Complies by 16.2dB

3.1.4 Test Configuration Photographs

The following photographs show the testing configurations used.



Electromagnetic Radiated Disturbance Setup Photograph



3.2 AC Mains Line-Conducted Disturbance

FCC: 15.107

FCC: 15.207

IC: ICES-003

3.2.1 Test Limits

Limits for Electromagnetic Conducted Disturbance, FCC Section 15.207& 15.107

Frequency Band MHz	Class B Limit dB (μ V)	
	Quasi-Peak	Average
0.15-0.50	66 to 56 Decreases linearly with the logarithm of the frequency	56 to 46 Decreases linearly with the logarithm of the frequency
0.50-5.00	56	46
5.00-30.00	60	50

Note: At the transition frequency the lower limit applies.



3.2.2 Test Procedure

Measurements are carried out using quasi-peak and average detector receivers in accordance with CISPR 16. An AMN is required to provide a defined impedance at high frequencies across the power feed at the point of measurement of terminal voltage and also to provide isolation of the circuit under test from the ambient noise on the power lines. An AMN as defined in CISPR 16 shall be used.

The EUT is located so that the distance between the boundary of the EUT and the closest surface of the AMN is 0.8m.

Where a flexible mains cord is provided by the manufacturer, this shall be 1m long or if in excess of 1m, the excess cable is folded back and forth as far as possible so as to form a bundle not exceeding 0.4m in length.

The EUT is arranged and connected with cables terminated in accordance with the product specification.

Conducted disturbance is measured between the phase lead and the reference ground, and between the neutral lead and the reference ground. Both measured values are reported.

The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. A vertical, metal reference plane is placed 0.4m from the EUT. The vertical metal reference-plane is at least 2m by 2m. The EUT shall be kept at least 0.8m from any other metal surface or other ground plane not being part of the EUT. The table is constructed of non-conductive materials.

Floor standing EUTs are placed on a horizontal metal ground plane and isolated from the ground plane by 3 to 12 mm of insulating material. The metal ground plane extends at least 0.5m beyond the boundaries of the EUT and has minimum dimensions of 2m by 2m.

Equipment was setup as “Transmission Mode.” See section 1.5 for setup details.

Equipment setup for conducted disturbance tests followed the guidelines of ANSI C63.4.

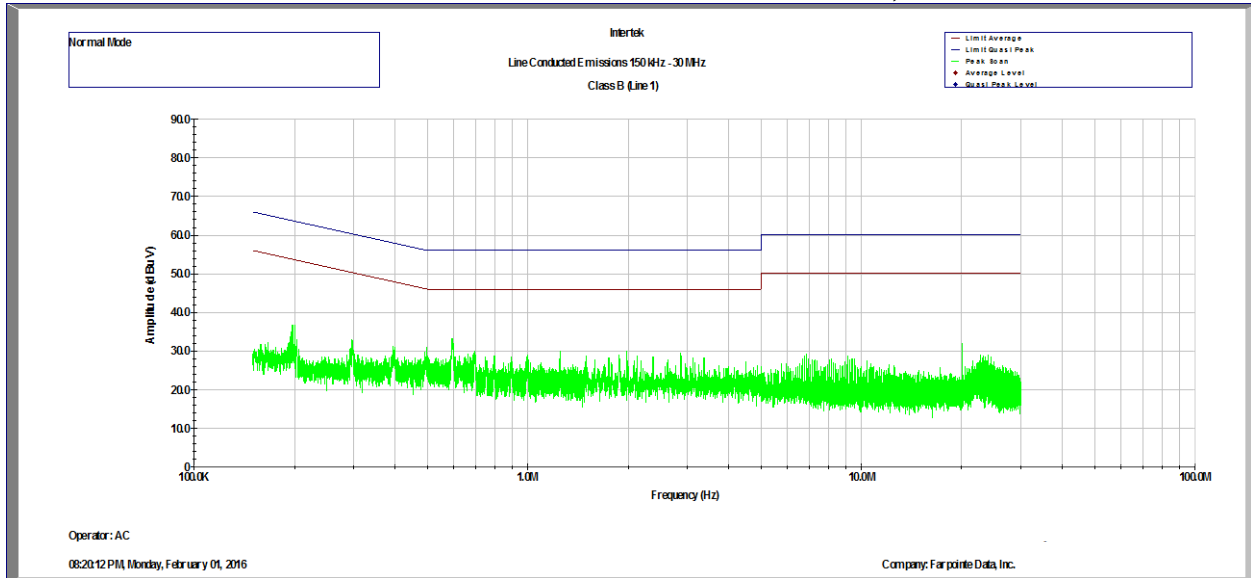
Tested By:	Aaron Chang
Test Date:	February 1, 2016



3.2.3 Test Results

The EUT met the conducted disturbance requirement of FCC and ICES 003.

FCC and ICES 003 Conducted Disturbance at AC Mains, FCC 15.207



Intertek Testing Services
 Line Conducted Emissions 150 kHz - 30 MHz
 FCC 15.207 (Line 1)
 Operator: AC

Model Number: P-3500 Proximity Reader
 Company: Fairpointe Data, Inc.

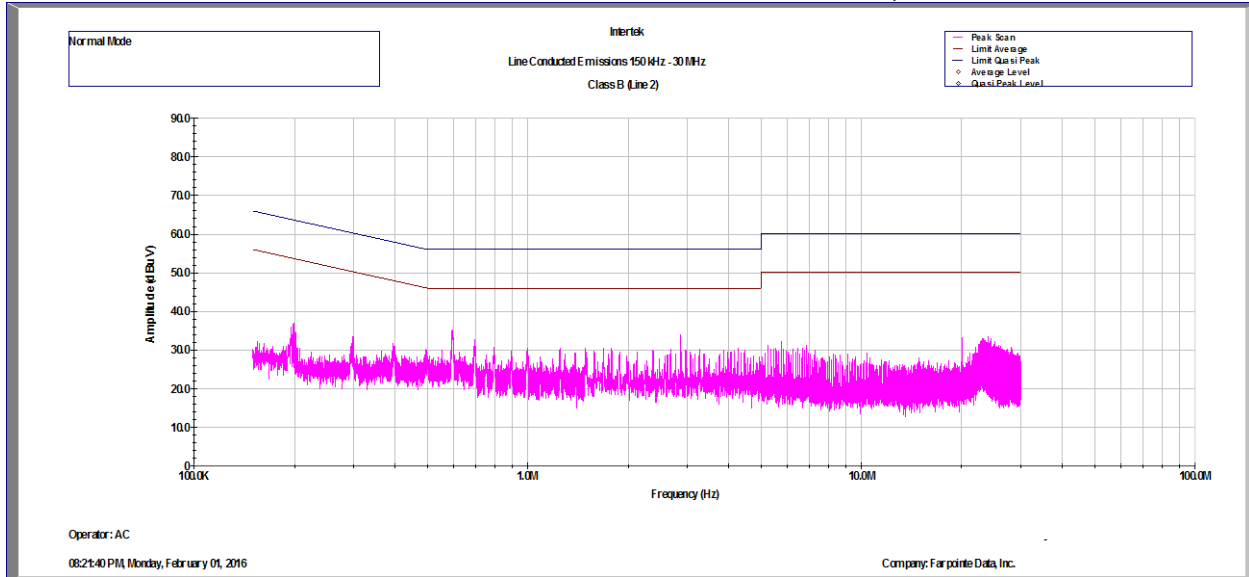
Frequency	Av Level	QP Level	Av Limit	QP Limit	Av Margin	QP Margin
MHz	dBuV	dBuV	dBuV	dBuV	dB	dB
0.395	31.3	31.3	49.0	59.0	-17.7	-27.7
0.496	31.2	31.2	46.1	56.1	-14.9	-24.9
0.593	33.3	33.3	46.0	56.0	-12.7	-22.7

Test Mode: Normal Mode
 Temp.: 22C
 Humidity: 52.4%



3.2.3 Test Results

FCC and ICES 003 Conducted Disturbance at AC Mains, FCC 15.207



Intertek Testing Services
 Line Conducted Emissions 150 kHz - 30 MHz
 FCC 15.207 (Line 2)
 Operator: AC

Model Number: P-3500 Proximity Reader
 Company: Fairpointe Data, Inc.

Frequency MHz	Av Level dBuV	QP Level dBuV	Av Limit dBuV	QP Limit dBuV	Av Margin dB	QP Margin dB
0.593	35.4	35.4	46.0	56.0	-10.6	-20.6
0.693	32.8	32.8	46.0	56.0	-13.2	-23.2
2.874	34.1	34.1	46.0	56.0	-11.9	-21.9

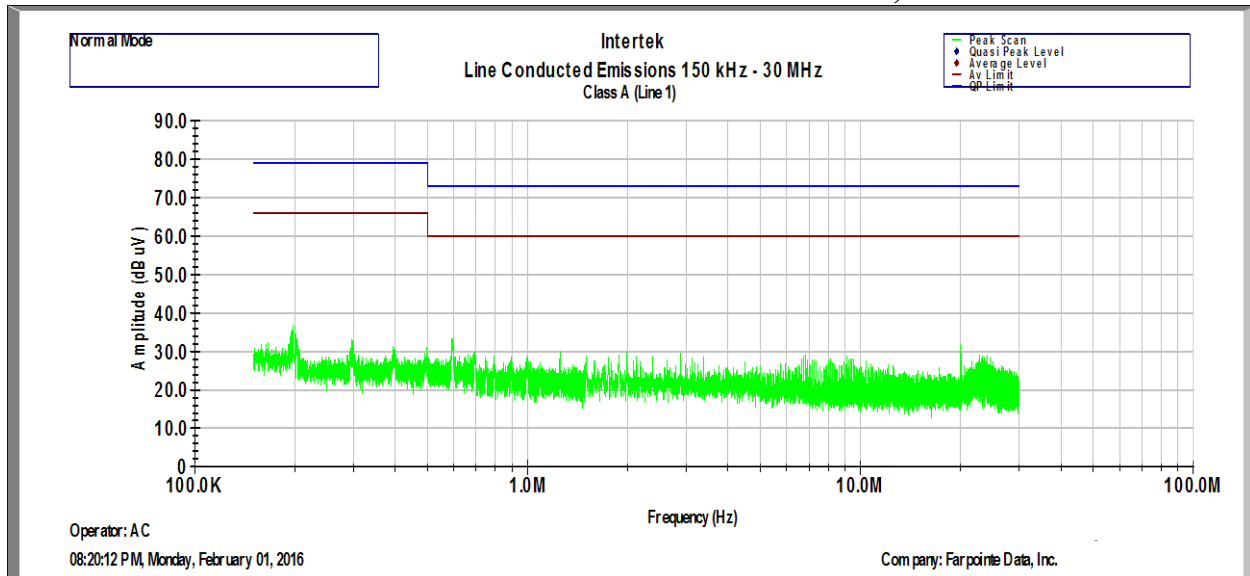
Test Mode: Normal Mode
 Temp.: 22C
 Humidity: 52.4%

Results Complies by 10.6 dB



3.2.3 Test Results

FCC and ICES 003 Conducted Disturbance at AC Mains, FCC 15.107



Intertek Testing Services
 Line Conducted Emissions 150 kHz - 30 MHz
 FCC Part 15.107 Class A (Line 1)
 Operator: AC

Model Number: P-3500 Proximity Reader
 Company: Fairpointe Data, Inc.

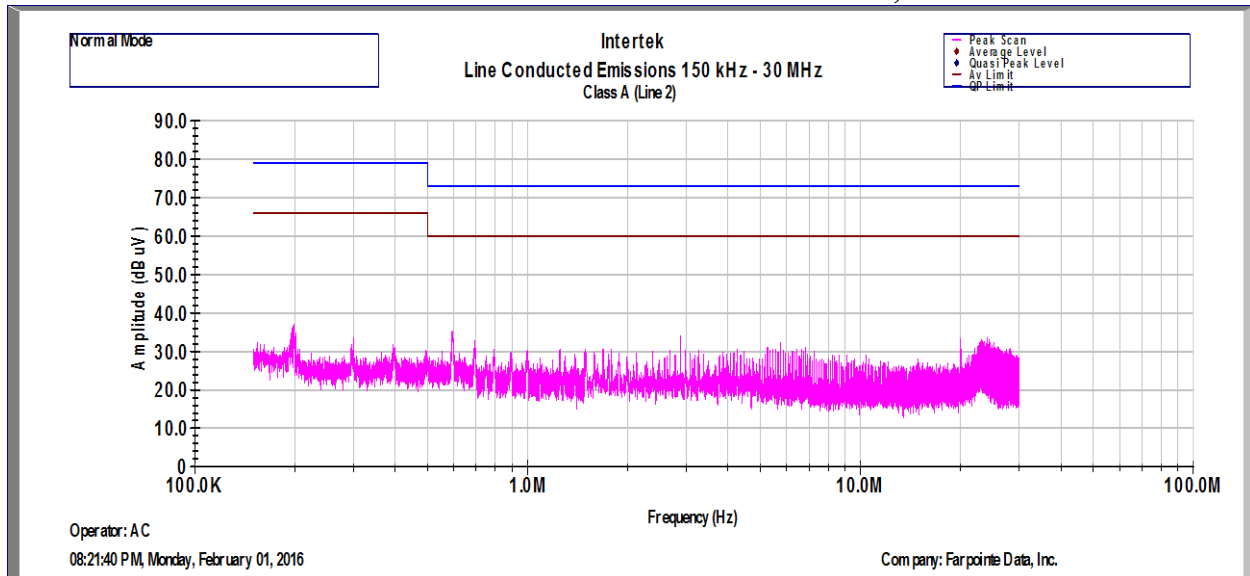
Frequency MHz	Av Level dBuV	QP Level dBuV	Av Limit dBuV	QP Limit dBuV	Av Margin dB	QP Margin dB
0.395	31.3	31.3	66	79	-34.7	-47.7
0.496	31.2	31.2	66	79	-34.8	-47.8
0.593	33.3	33.3	60	73	-26.7	-39.7

Test Mode: Normal Mode
 Temp.: 22C
 Humidity: 52.4%



3.2.3 Test Results

FCC and ICES 003 Conducted Disturbance at AC Mains, FCC 15.107



Intertek Testing Services
 Line Conducted Emissions 150 kHz - 30 MHz
 FCC Part 15.107 Class A (Line 2)
 Operator: AC

Model Number: P-3500 Proximity Reader
 Company: Fairpointe Data, Inc.

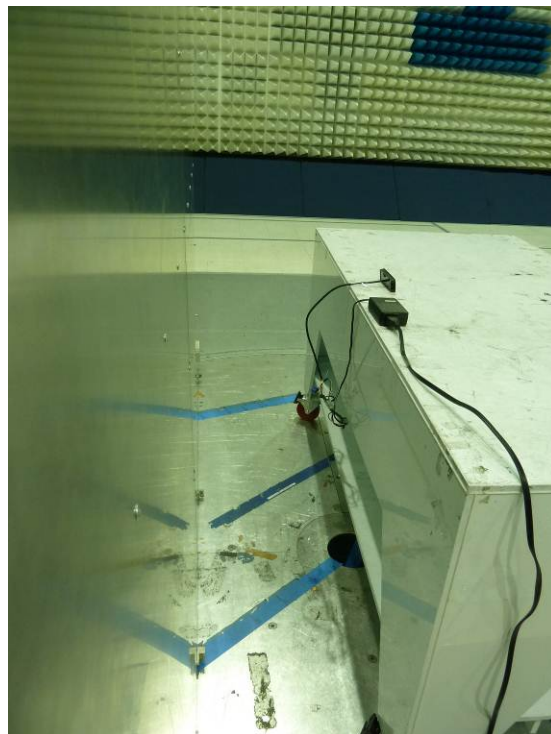
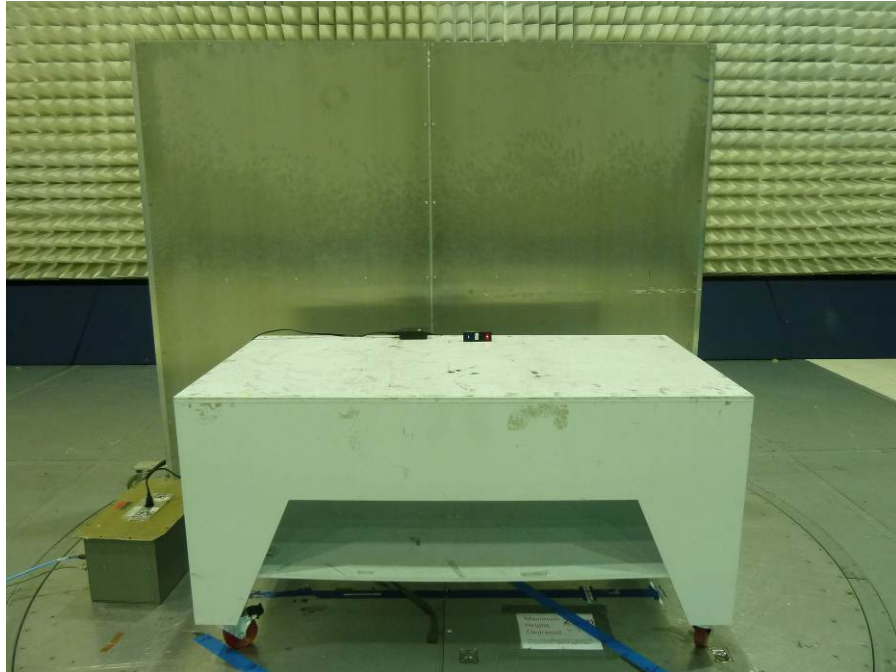
Frequency MHz	Av Level dBuV	QP Level dBuV	Av Limit dBuV	QP Limit dBuV	Av Margin dB	QP Margin dB
0.593	35.4	35.4	60	73	-24.6	-37.6
0.693	32.8	32.8	60	73	-27.2	-40.2
2.874	34.1	34.1	60	73	-25.9	-38.9

Test Mode: Normal Mode
 Temp.: 22C
 Humidity: 52.4%

Results Complies by 24.6 dB

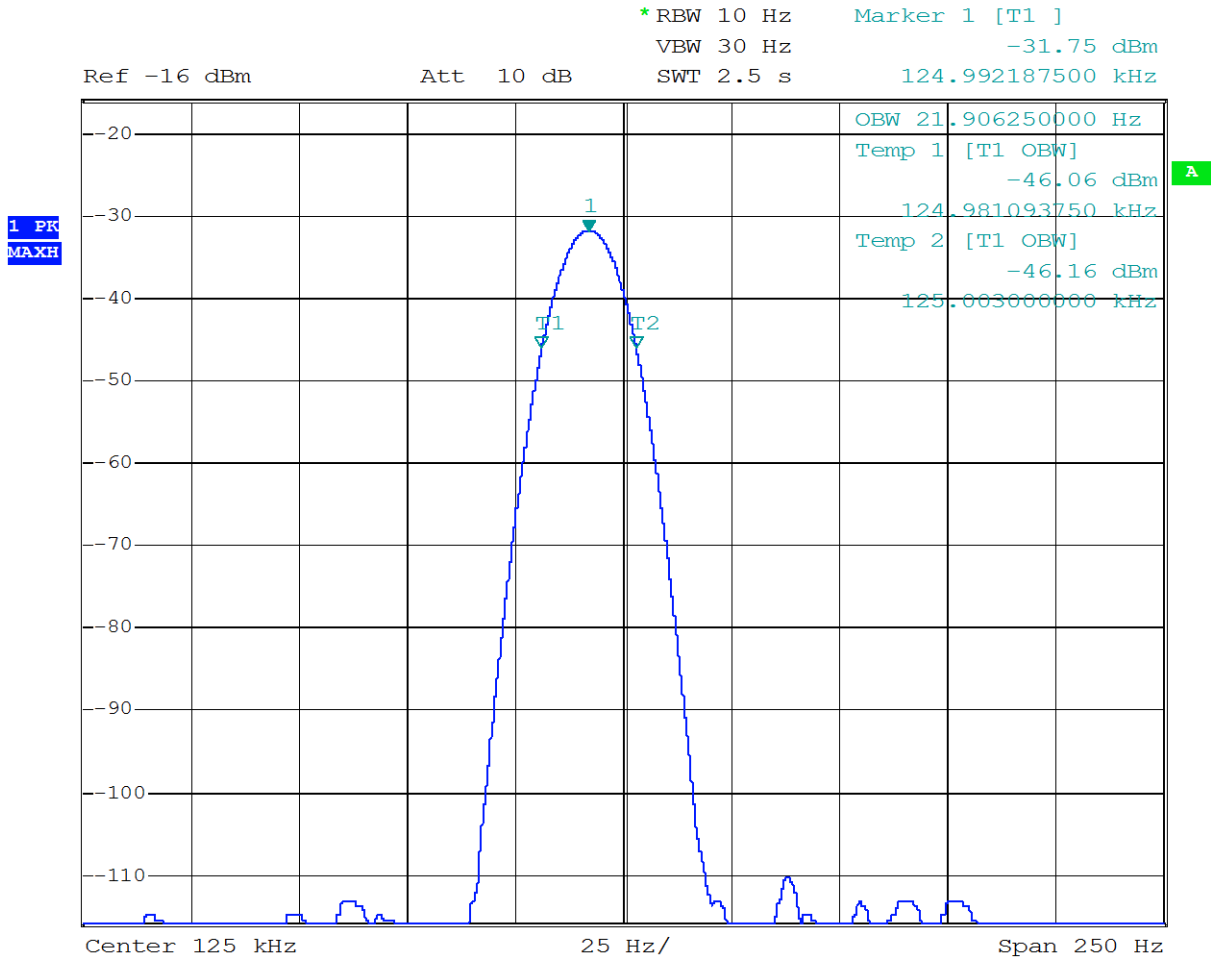
3.2.4 Test Configuration Photographs

The following photographs show the testing configurations used.



AC Mains Line-Conducted Disturbance Setup Photograph

Plot 2, 99% Bandwidth



Date: 1.FEB.2016 17:53:41



4.0 Document History

Revision/ Job Number	Writer Initials	Reviewer Initials	Date	Change
1.0 / G102455484	AC	KV	February 11, 2016	Original document