



RF Exposure Analysis / Report

On

Antenna Pedestal
Model Numbers: NP12 PRI/PAB, NP12 SAB
FCC ID: DO4NEO2PS

Customer Name: Checkpoint Systems, Inc.

Customer P.O.: 1101200342

Date of Report: September 21, 2023

Test Report No.: R-3728P-6

Test Start Date: June 19, 2023

Test Finish Date: June 19, 2023

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Certification and Signatures We certify that this report is a true representation of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.

Richard J. Reitz
Director of Engineering
iNARTE Electromagnetic Compatibility Engineer EMC-050739-E

Scott Wentworth
Branch Manager

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Colleen T. Reitz
Chief of Documentation, Innovation and Compliance



Richard J. Reitz
Director of Engineering
iNARTE Electromagnetic Compatibility Engineer EMC-050739-E

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Revision History

Revisions to this document are listed below; the latest revised document supersedes all previous issues of this document:

Revision	Date	Pages Affected
-	September 21, 2023	Original Release



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Report No. R-3728P-6

Test Program Summary

Report Number: R-3728P-6
Customer: Checkpoint Systems, Inc.
Address: 101 Wolf Drive
Thorofare, NJ 08086
Manufacturer: Checkpoint Systems, Inc.
Manufacturer Address: 101 Wolf Drive
Thorofare, NJ 08086
Test Sample: Antenna Pedestal
FCC ID: DO4NEO2PS

Test Specification:

FCC Part 1.1310, Radiofrequency Radiation Exposure Limits

Test Procedure:

FCC OET Bulletin 65

Test Facility:

Retlif Testing Laboratories
3131 Detwiler Road
Harleysville, PA 19438

FCC Accreditation Designation Number: US2321

Family Certification:

The Antenna Pedestal tested was provided as worst case configuration in accordance with Checkpoint Systems, Inc. The Neo v2.0 PAB/SAB family consists of the following versions:

- NP12 PRI/PAB
- NP12 SAB
- NP22 PRI/PAB
- NP22 SAB
- NG12 PRI/PAB RF PED
- NG12 SAB RF PED



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RF Exposure - Requirements and Test Results

Requirement: 1.1310(d)(2), Radiofrequency Radiation Exposure Limits

For operations within the frequency range of 300 kHz and 6 GHz (inclusive), the limits for maximum permissible exposure (MPE), derived from whole-body SAR limits and listed in Table 1 in [paragraph \(e\)\(1\)](#) of this section, may be used instead of whole-body SAR limits as set forth in [paragraphs \(a\)](#) through [\(c\)](#) of this section to evaluate the environmental impact of human exposure to RF radiation as specified in [§ 1.1307\(b\) of this part](#), except for portable devices as defined in [§ 2.1093 of this chapter](#) as these evaluations shall be performed according to the SAR provisions in [§ 2.1093](#).

Table 1 FCC [§ 1.1310\(e\)\(1\)](#) - Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

Test Equipment:

The details of the test equipment utilized during the performance of this test method are shown below:

EN	Manufacturer	Model No.	Description	Serial No.	Due Date
8698	LENOVO	E73	COMPUTER, CONTROL	NSN	No Calibration Required
R849	NARDA	EHP-200A	ANALYZER, FIELD STRENGTH, 9 kHz - 30 MHz	180ZX00616	11/25/2023

Test Results:

The calculated power density based on the manufacturers specified antenna gain and maximum measured output power did not exceed the specified MPE limits at a distance of 0 cm for both General Population/Uncontrolled Exposure and for Occupational/Controlled Exposure.



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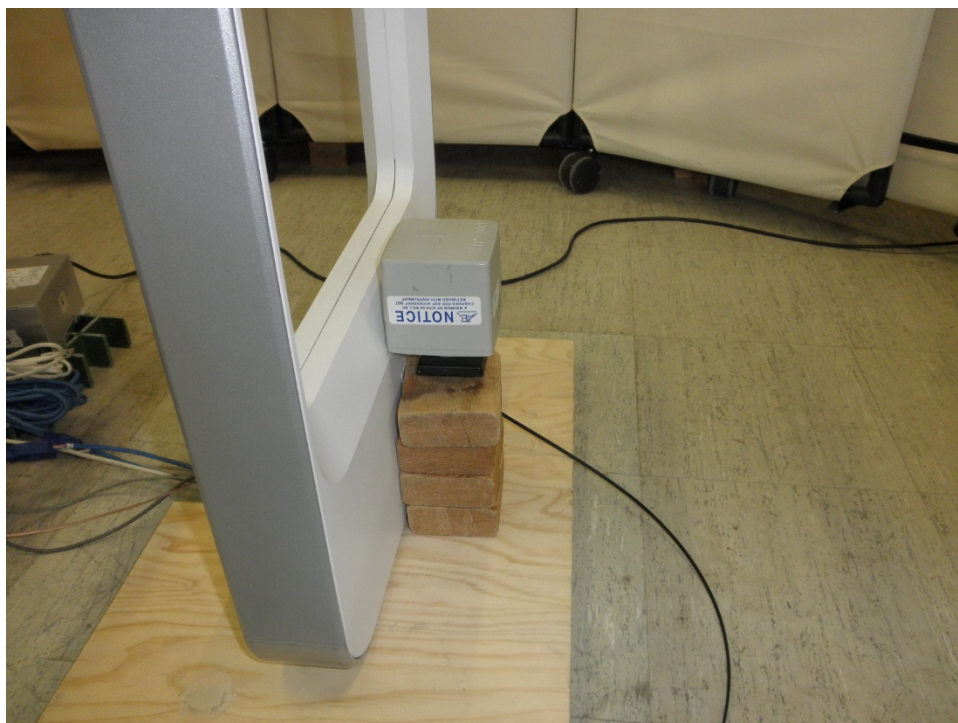
**Test Photographs, NP12 PRI/PAB
RF Exposure**



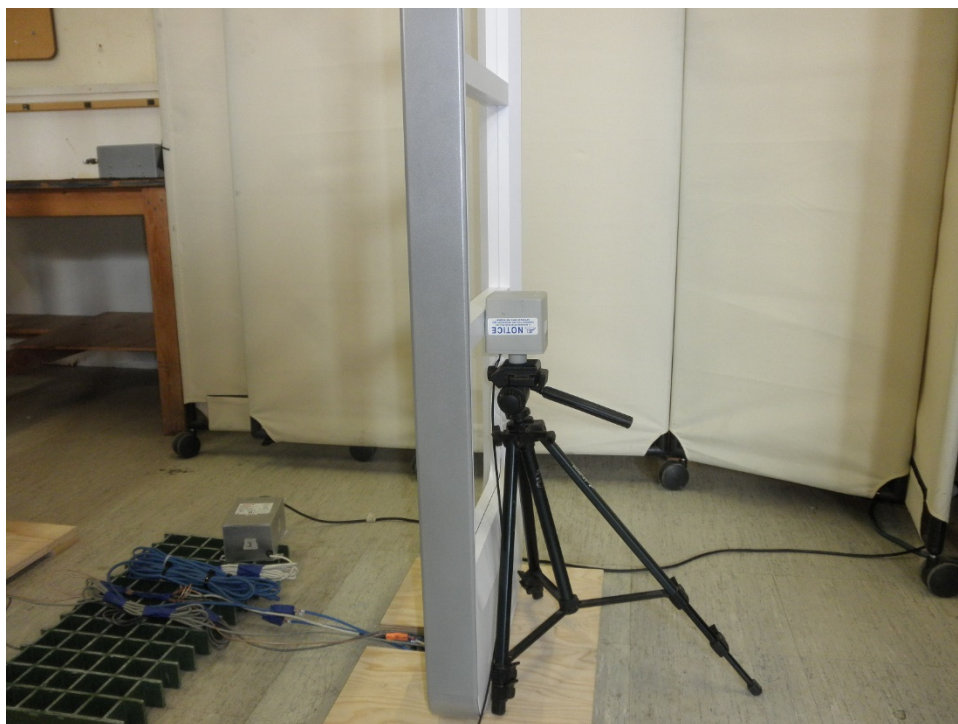
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Test Photographs RF Exposure



Probe Location, Outside, 30 cm



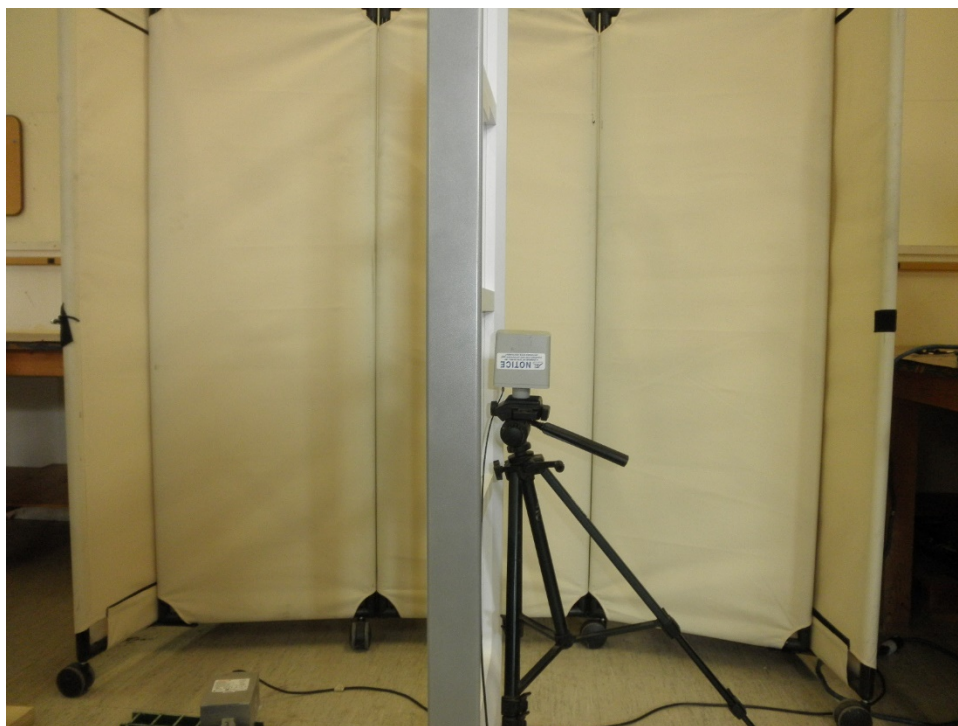
Probe Location, Outside, 60 cm



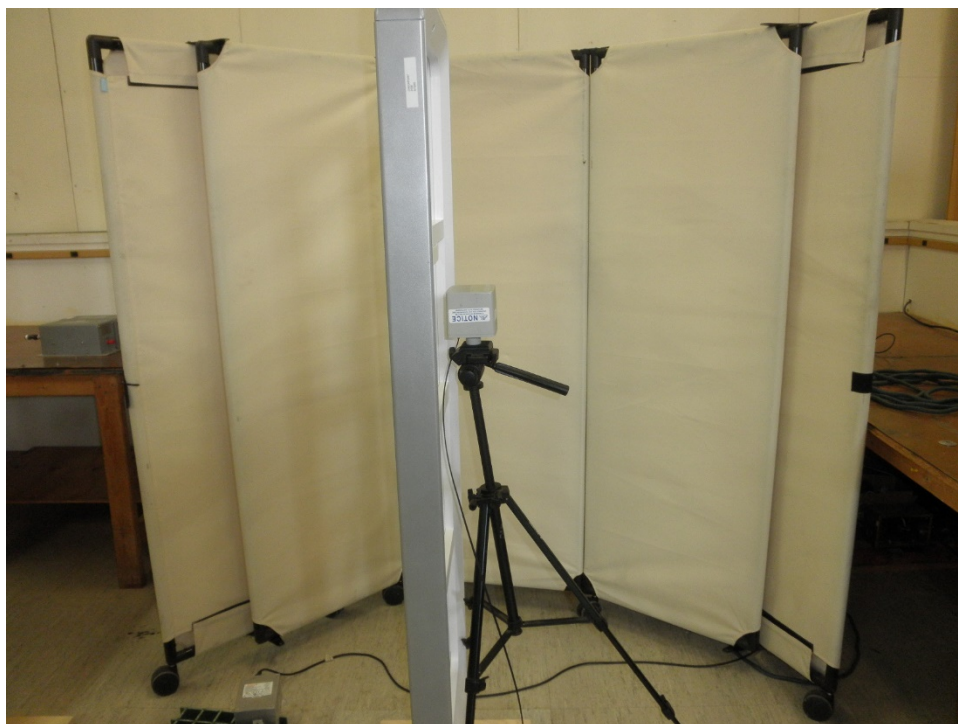
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Test Photographs RF Exposure



Probe Location, Outside, 90 cm



Probe Location, Outside, 120 cm



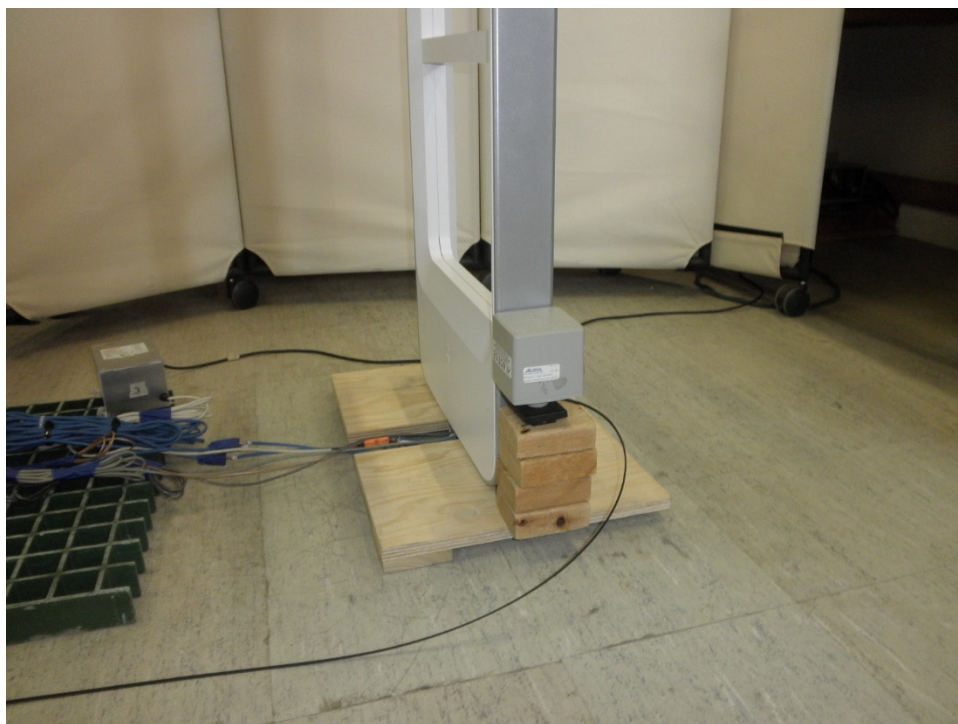
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Test Photographs RF Exposure



Probe Location, Outside, 165 cm



Probe Location, Front, 30 cm



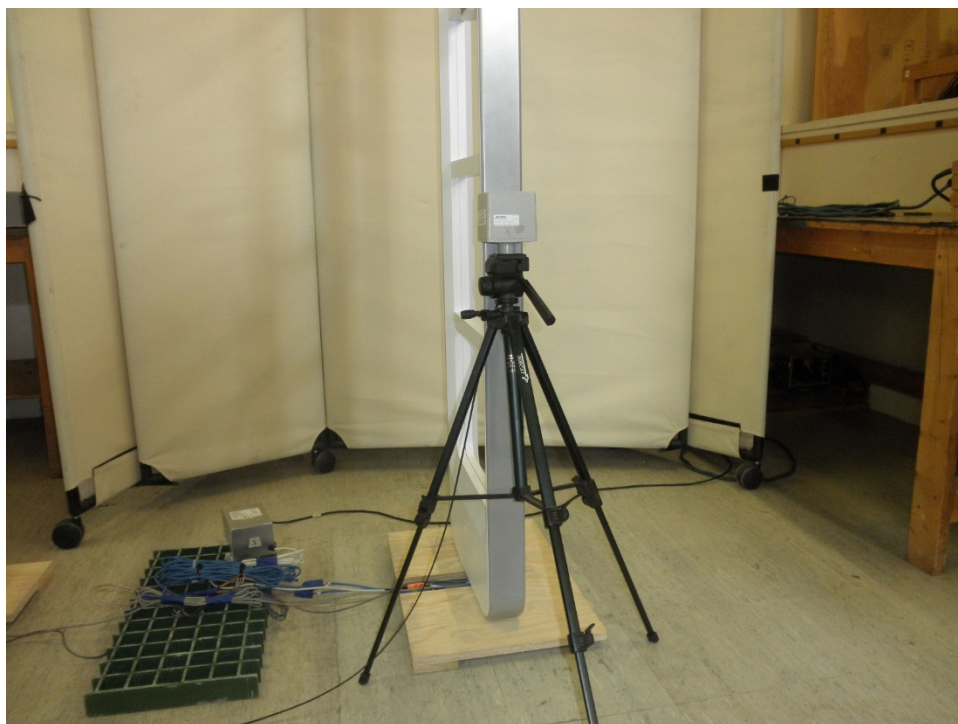
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Test Photographs RF Exposure



Probe Location, Front, 60 cm



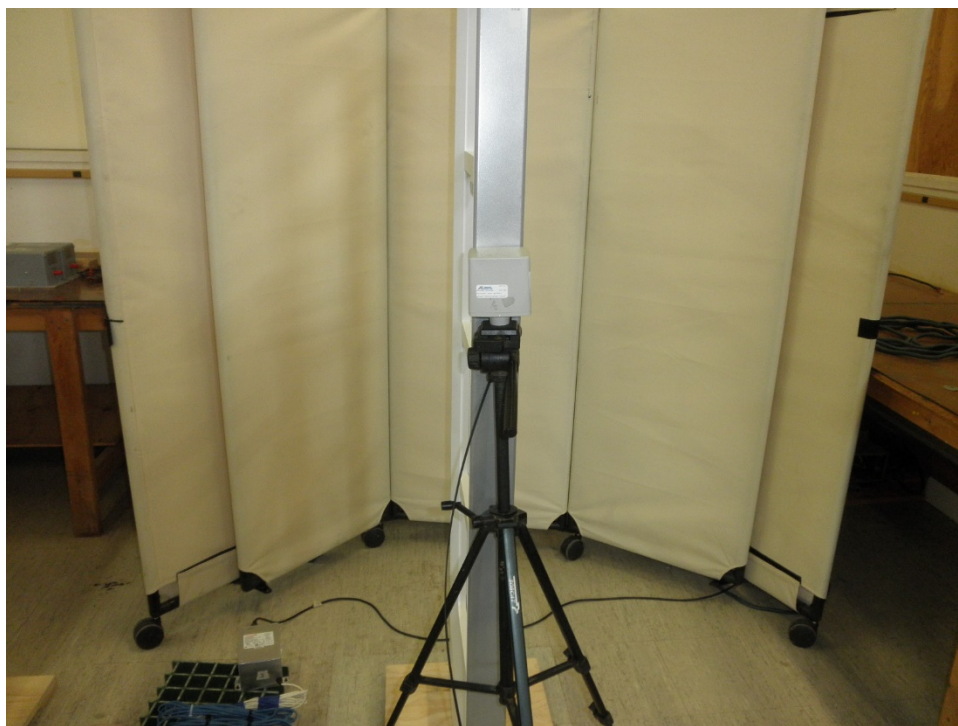
Probe Location, Front, 90 cm



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Test Photographs RF Exposure



Probe Location, Front, 120 cm



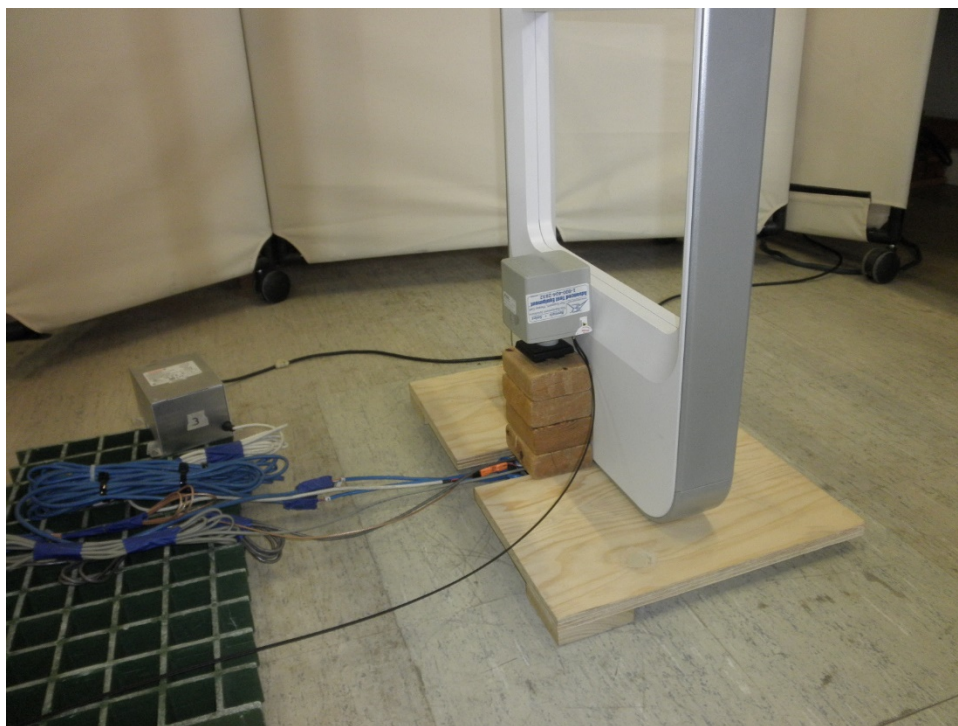
Probe Location, Front, 165 cm



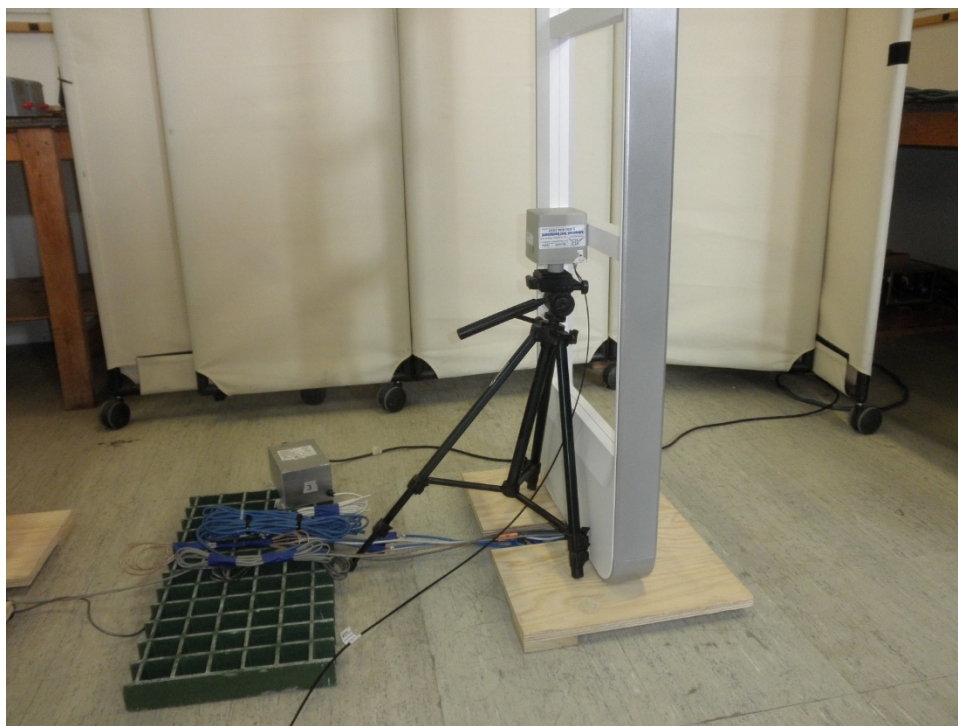
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Test Photographs RF Exposure



Probe Location, Inside, 30 cm



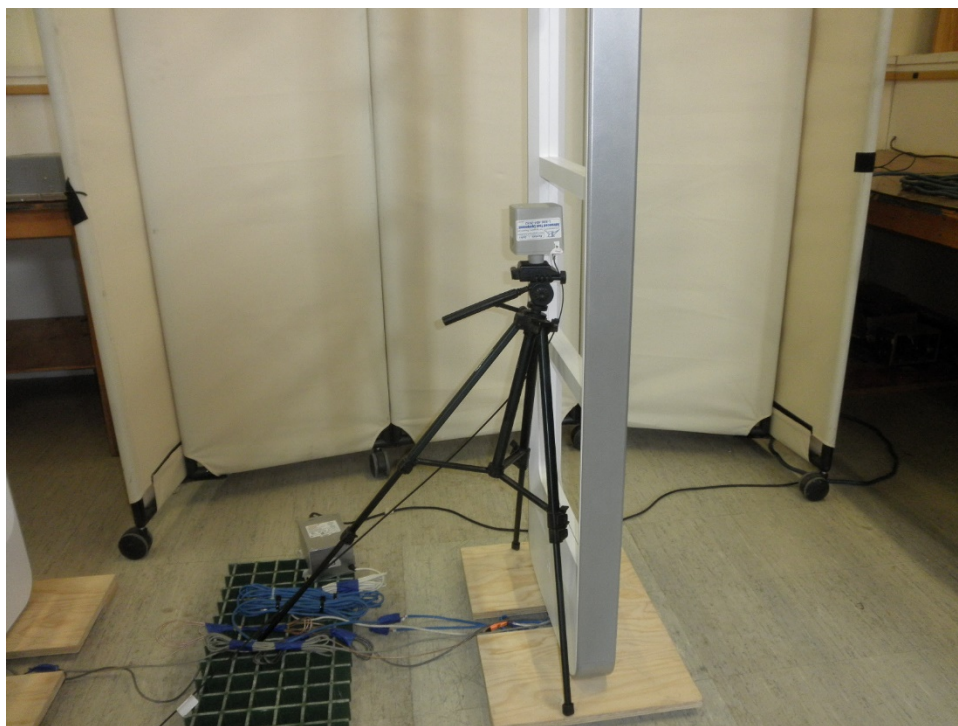
Probe Location, Inside, 60 cm



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Test Photographs RF Exposure



Probe Location, Inside, 90 cm



Probe Location, Inside, 120 cm



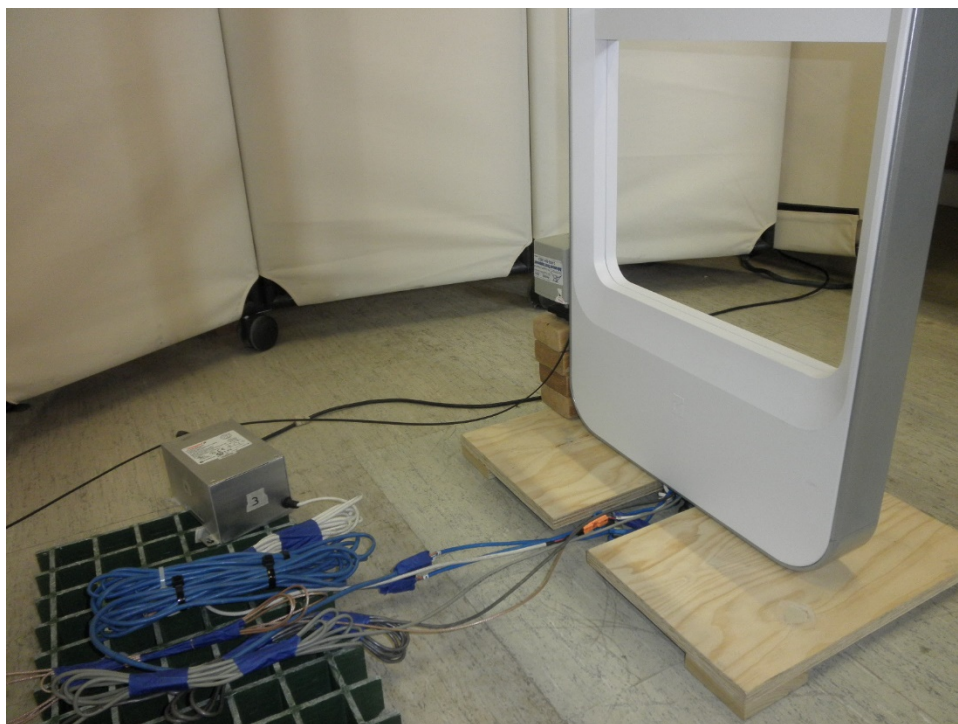
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Test Photographs RF Exposure



Probe Location, Inside, 165 cm



Probe Location, Rear, 30 cm



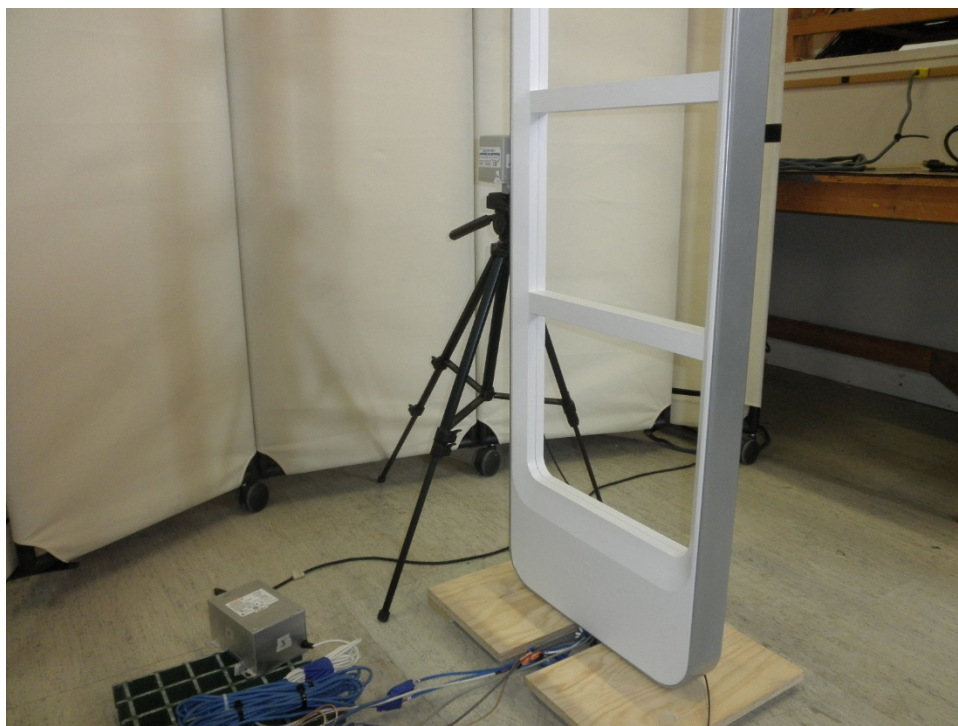
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Test Photographs RF Exposure



Probe Location, Rear, 60 cm



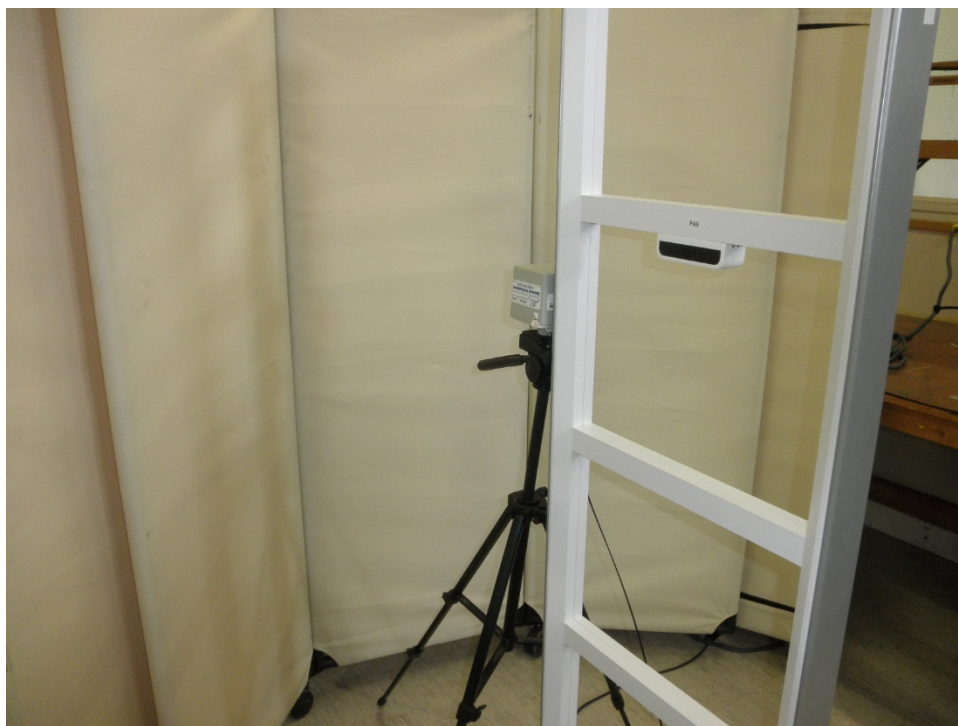
Probe Location, Rear, 90 cm



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Test Photographs RF Exposure



Probe Location, Rear, 120 cm



Probe Location, Rear, 165 cm



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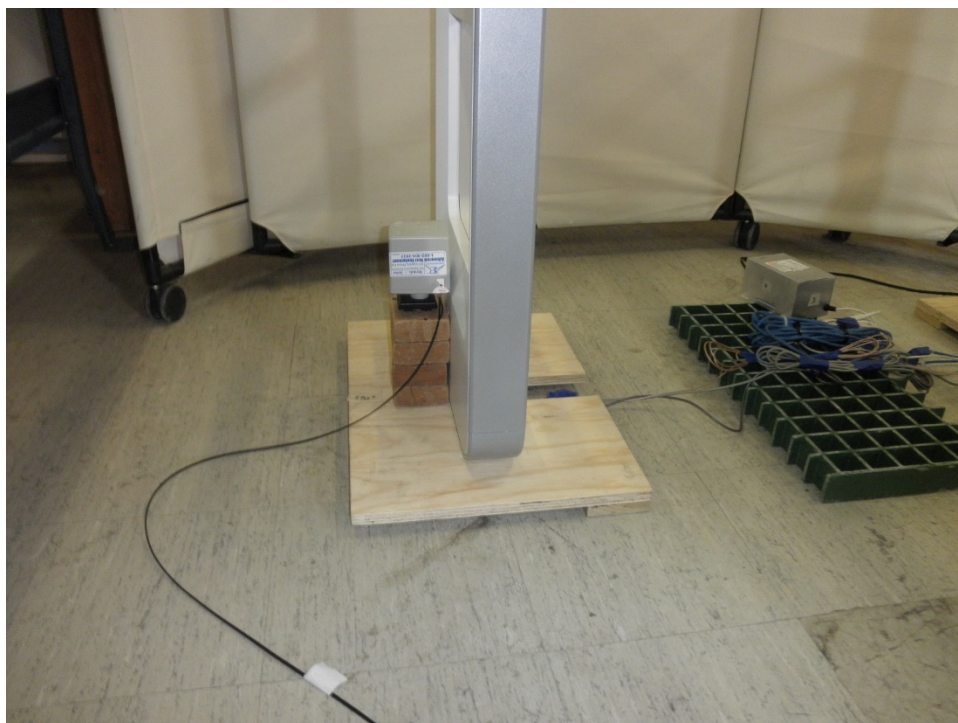
**Test Photographs, NP12 SAB
RF Exposure**



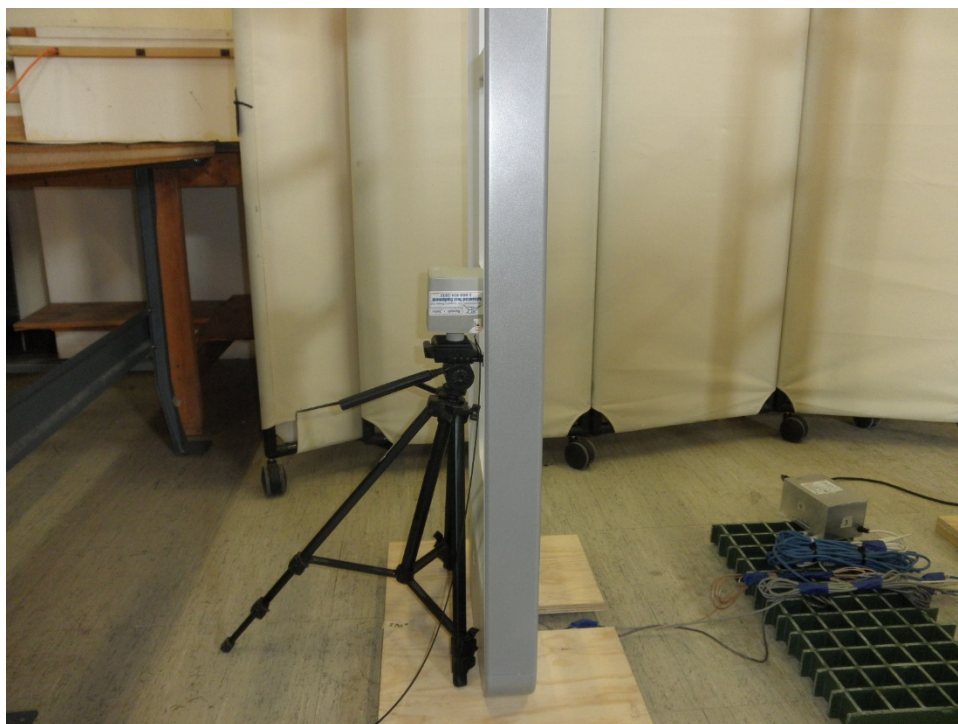
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Test Photographs RF Exposure



Probe Location, Outside, 30 cm



Probe Location, Outside, 60 cm



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Report No. R-3728P-6

Test Photographs RF Exposure



Probe Location, Outside, 90 cm



Probe Location, Outside, 120 cm



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