METS · LINDGREN

Antenna Factors for Loop Antenna Manufactured by EMC Test Systems Model Number: 6502 Serial Number: 00042963

Frequency (MHz)	Magnetic Antenna Factor (dBS/m)	Electric Antenna Factor (dB)
0.009	-31.6	19.9
0.010	-32.5	19.0
0.020	-36.9	14.6
0.050	-39.4	12.1
0.075	-39.8	11.8
0.100	-39.6	11.9
0.150	-39.8	11.8
0.250	-39.8	11.8
0.500	-39.8	11.8
0.750	-39.8	11.8
1.000	-39.7	11.9
2.000	-39.6	11.9
3.000	-39.9	11.7
4.000	-40.0	11.5
5.000	-40.1	11.4
10.000	-40.7	10.8
15.000	-41.1	10.4
20.000	-41.5	10.0
25.000	-42.3	9.2
30.000	-43.5	8.1

Specification compliance testing factor to be added to receiver meter reading in dBV to convert to magnetic field intensity in dBA/meter or to equivalent electric field intensity in dBV/meter. Calibrated 14 Jan 05 (DD MM YY). Calibrated per IEEE 291, Induction-Field Method. >



METS·LINDGR

An ESCO Technologies Company

1301 Arrow Point Drive Cedar Park, Texas 78613 (512) 531-6498

EM CUSZ3

METS CALIBRATION

14-Jan-05 By DBN Date

Next Cal Due

Cert I.D.: 48764 Lab Code 115844/1207.01

Certificate of Calibration Conformance Page 1 of 2

The instrument identified below has been individually calibrated in compliance with the following standard(s):

IEEE Std 291 - 1992, IEEE Standard Methods for Measuring Electromagnetic Field Strength of Sinusoidal Continous Waves, 30 Hz to 30 GHz, Institute of Electrical and Electronics Engineers, Inc.

Environment: Laboratory MTE is maintained in a temperature controlled environment with ambient conditions from 18 to 28 C, relative humidity less than 90%. The instrument under test has been calibrated in environment which has no known influences on measurement quality.

Manufacturer:

EMCO

Model Number:

6502

Serial Number / ID:

00042963

Tracking Number:

J87635

Date Completed:

14-Jan-05

Test Type:

Standard Loop, H - Field Gain/AF

Calibration Uncertainty:

(95% Confidence Level)

+/- 2.0 dB

Test Remarks:

None

SAM

Calibration Traceability: All Measuring and Test Equipment (M/TE) identified below are traceable to the National Institute for Standards and Technology (NIST). Calibration Laboratory and Quality System controls are compliant with ISO/IEC 17025-1999.

Standards and Equipment Used:

Make / Model / Name / S/N / Recall Date Hewlett Packard

8116A

Pulse/function Generator

2516A01852

09-Mar-05

Operating Range:

Instrument Type:

Hewlett Packard Hewlett Packard

3478A 8566B Digital Multimeter Spectrum Analyer 2301A18249

08-Jul-05

10-Mar-05 3014A18980

Condition of Instrument

10 kHz - 30 MHz

Loop (Active)

On Release:

In Tolerance to Internal Quality Standards

Calibration Completed By David B. Nash, Cal Lab Technician Attested and Issued on 14-Jan-05 Ronald W. Bethel, Calibration Lab Supervisor

This document provides traceability of measurements to recognized national standards using controlled processes at the ETS-Lindgren Calibration Laboratory. Uncertainties listed are derived from the methods described by NIST Tech Note 1297. This certificate and report may not be reproduced, except in full, without the written approval of ETS-Lindgren Calibration Laboratory in accordance with ISO/IEC 17025-1999. QAF 1107 (07/03)