TEST EQUIPMENT USED FOR TSSCKP

Part 15.231, ANSI C63.4, RSS 210

This is a list of all test equipment used.

Note: Calibration Certificates are on following pages.

Test Equipment list for Honeywo	ell OATS & Conducted Line
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EQUIPMENT:	MANUFACTURER:	MODEL:	CAL DATE:	CAL DUE DATE:
Spectrum Analyzer	Rohde & Schwarz	FSU26	05/09/2013	05/09/2014
Antenna ('Biconilog')	ETS (EMCO)Lindgren	3149	07/08/2013	07/08/2014
Spectrum Analyzer	Rohde & Schwarz	FSU3	05/09/2013	05/09/2014
LISN	COM-POWER	LI-115	10/17/2013	10/17/2014

If you need any additional information from Honeywell, please contact:

Andrew Roussin, Engineer (Acting for Mark Schmidt)
Phone (Direct): 516-577-5935

Email: andrew.roussin@honeywell.com

Certificate of Calibration

Issue Date: 5/13/2013



General Calibration, Inc.

2 Mars Court, Boonton, New Jersey 07005 Phone (973) 299-2950 Fax (973) 299-0595 Certificate #: 1034725 Work Order #: RH509 Customer #: 001464

Performed By:

GENERAL CALIBRATION, INC.

HONEYWELL SECURITY (001464)
2 MARS COURT

2 CORPORATE CENTER DRIVE

BOONTON, NJ 07005

Equipment Infor	mation:
Job No.:	066617
Manufacturer:	R&S
Description:	SPECTRUM ANALYZER
Department:	
Temp./RH:	22.0 C / 53.0 %
Cal. Interval:	12 MONTHS
Cal Date:	05/09/2013

583920
11496
FSU26
100303
RHI
METROLOGIST
PASSED
05/09/2014

Procedure #GCP: RS FSU26

Calibration Notes:

Condition: Found In Tolerance and Left In Tolerance

Standards Used To Calibrate Equipment

Company	I.D.	Description	Serial Number	Cal. Due Date
GENERAL CALIBRATION	335	SYNTHESIZED SWEEPER, 50GHZ	3614A00157	08/02/2014
GENERAL CALIBRATION	676	LEVEL GENERATOR	2516A04043	05/21/2013
GENERAL CALIBRATION	856	FREQUENCY COUNTER	51002-5	06/28/2013
GENERAL CALIBRATION	874	POWER SENSOR	3318A15971	10/18/2013
GENERAL CALIBRATION	974	POWER METER	2709A29063	06/04/2013

This is to certify that General Calibration, Inc. is A2LA accredited and that its calibration system is in compliance with ISO/IEC17025-2005, ANSI NCSL Z540-1, ANSI NCSL Z540-3, and ISO 9001:2008. The test limits stated in the report correspond to the Manufacturer calibration and published specifications of the equipment, at the points tested. Calibration of standards; reference standards and intermediate standards in this calibration have been checked and calibrated against the above working standard(s) which are traceable to the National Institute of Standards and Technology. Any accredited calibration under our A2LA scope of accreditation is denoted with A2LA accredited symbol on the calibration certificate. If the certificate includes any unaccredited items calibrated, they are clearly marked as unaccredited calibration.

Best Uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2.

The results documented in this certificate relate only to the item(s) calibrated or tested.

Approved By Below R. W. are
General Calibration, Inc. - Q. A. Manager



METS-LINDGR

Cert I.D.: 97937

1301 Arrow Point Drive Cedar Park, Texas 78613 (512) 531-6400

Certificate of Calibration Conformance

Page 1 of 5

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

SAE, ARP-958 - 2003, Electromagnetic Interference Measurement Antennas, Standard Calibration Method, Society of Automotive Engineers, Aerospace Recommended Practice. Fixed height, three antenna rotation, 1 meter separation. 3 meter separation performed per Annex C. Vertical calibration performed per above listed methodology.

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 on an open air test site (OATS) with environment temperature conditions ranging from 0 to 40 C which has no known influences on measurement quality

Manufacturer: Model Number:

ETS-Lindgren

3149.

Serial Number/ ID:

00029390

Tracking Number:

S 000028197

Date Completed:

08-Jur-13

Test Type:

3 meter Horizontal and Vertical

Calibration Uncertainty:

01ra

26 - 1000 MHz, +/-0.9 dB: 1000 - 2000 MHz, +/-0.8 dB; 2000 \times 6000 MHz, +/-1.2 dB

Operating Range:

Instrument Type:

Date Code:

Alternate ID:

Customer:

k=2, (95% Confidence Level)

0.3m

26 - 1000 MHz +/-0.9 dB: 1000 - 2000 MHz, +/-0.8 dB; 2000 - 6000 MHz, +/-1.3 dB

10m

26 - 1000 MHz, +/-1.0 dB; 1000 - 2000 MHz, +/-1.4 dB; 2000 - 6000 MHz, +/-2.3 dB

Test Remarks: Extended Calibration: from 26 MHz to 6 GHz

Calibration Traceability: All Measuring and Test Equipment (M/TE) identified below are traceable to the SI units through the National Institute for Standards and Technology (NIST) or other recognized National Metrology Institute Calibration Laboratory and Quality System controls are compliant with ISO/IEC 17025-2005 and ANSI/NCSL Z540-1-1994.

Standards and Equipment Used:

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

Agilent

N5230C

PNA-L Net/Wrk Analyzer MY49002145

13-Jul-13

Condition of Instrument

Upon Receipt:

In Tolerance to Internal Quality Standards

80 MHz - 6 GHz

11243

Biconilog (Type 5)

HONEYWELL (NY)

On Release:

In Tolerance to Internal Quality Standards

dalibration Completed By

James Hansell, Calibration Technician

Attested and Issued on 08-Jul-13

Doug Kramer, EMC/Wireless Lab Manager

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 17025-2005 and ANSI/NCSL Z540-1-1994. QAF 1127 (03/11)

Certificate of Calibration

Issue Date: 5/13/2013



General Calibration, Inc. 2 Mars Court, Boonton, New Jersey 07005

Phone (973) 299-2950 Fax (973) 299-0595

Certificate #: 1034723 Work Order #: RH509 Customer #: 001464

Performed By:

GENERAL CALIBRATION, INC. 2 MARS COURT

BOONTON, NJ 07005

Job No .:

Manufacturer:

Description:

Department:

Cal. Interval:

Temp./RH:

Cal Date:

Equipment Information:

Location of Calibration:

HONEYWELL SECURITY (001464) 2 CORPORATE CENTER DRIVE

MELVILLE, NY 11747

Purchase Order: 583920
Asset Tag No.: 11493
Model Number: FSU3
Serial Number: 100029
Inspected By: RH1
Job Title: METROLOGIST

Calibration Result: PASSED

Cal. Due Date:

05/09/2014

Procedure #GCP:

RS FSU3

05/09/2013

22.0 C / 53.0 %

MONTHS

SPECTRUM ANALYZER

Calibration Notes:

Condition: Found In Tolerance and Left In Tolerance

066615

R&S

Standards Used To Calibrate Equipment

Company	I.D.	Description	Serial Number	Cal. Due Date
GENERAL CALIBRATION	335	SYNTHESIZED SWEEPER, 50GHZ	3614A00157	08/02/2014
GENERAL CALIBRATION	661	POWER SENSOR	US37298428	07/06/2013
GENERAL CALIBRATION	676	LEVEL GENERATOR	2516A04043	05/21/2013
GENERAL CALIBRATION	856	FREQUENCY COUNTER	51002-5	06/28/2013
GENERAL CALIBRATION	974	POWER METER	2709A29063	06/04/2013

This is to certify that General Calibration, Inc. is A2LA accredited and that its calibration system is in compliance with ISO/IEC17025-2005, ANSI NCSL Z540-1, ANSI NCSL Z540-3, and ISO 9001:2008. The test limits stated in the report correspond to the Manufacturer calibration and published specifications of the equipment, at the points tested. Calibration of standards reference standards and intermediate standards in this calibration have been checked and calibrated against the above working standard(s) which are traceable to the National Institute of Standards and Technology. Any accredited calibration under our A2LA scope of accreditation is denoted with A2LA accredited symbol on the calibration certificate. If the certificate includes any unaccredited items calibrated, they are clearly marked as unaccredited calibration.

Best Uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2.

The results documented in this certificate relate only to the item(s) calibrated or tested.

Approved By

General Calibration, Inc. - O. A. Manager

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Certificate of Calibration

Issue Date: 10/17/2013



General Calibration, Inc. 2 Mars Court, Boonton, New Jersey 07005 Phone (973) 299-2950 Fax (973) 299-0595

Location of Calibration:

HONEYWELL SECURITY (001464)

2 CORPORATE CENTER DRIVE

MELVILLE, NY 11747

Purchase Order:

Asset Tag No .:

Model Number:

Serial Number:

Inspected By:

Cal. Due Date:

Calibration Result:

Job Title:

Certificate #: GC49-10365 Work Order #: GC49-135 Customer #: 001464

Performed By:

GENERAL CALIBRATION, INC. 2 MARS COURT

BOONTON, NJ 07005

Equipment Information:

Job No.:

076905

Manufacturer:

COM-POWER

Description:

LISN

Department:

DAVID KALMUS

Temp./RH:

22.0 C / 24.0 %

Cal. Interval:

12 MONTHS

Cal Date:

10/17/2013

Procedure #GCP: COM-POWER LI-115

Calibration Notes:

Condition: Found In Tolerance and Left In Tolerance

Standards Used To Calibrate Equipment

Company

I.D.

Description

Serial Number

METROLOGIST

583920

11262

LI-115

241050

PASSED

10/17/2014

MR1

Cal. Due Date

GENERAL CALIBRATION 418

DIGITAL MULTIMETER

2201A12339

01/16/2014

GENERAL CALIBRATION 700

DIGITAL MULTIMETER

77820175

02/11/2014

This is to certify that General Calibration, Inc. is accredited by A2LA and that its calibration system is in compliance with ISO/IEC17025-2005, ANSI NCSL Z540-1, ANSI NCSL Z540-3, and ISO 9001:2008. The test limits stated in the report correspond to the Manufacturer's calibration and published specifications of the equipment, at the points tested. To the best of Gen-Cal's knowledge, the data obtained and as reported was accurate at the time of calibration. Many factors beyond the control of Gen-Cal may affect the performance of equipment after the calibration (verification) on the equipment. Calibration of standards; reference standards and intermediate standards in this calibration have been checked and calibrated against the above working standard(s) which are traceable to the SI units of measurement through National Institute of Standards and Technology or other National Measurement Institutes under CIPM MRA. Any accredited calibration under our A2LA score of accreditation is denoted with A2LA accredited symbol on the calibration certificate. If the Accredited certificate includes any unaccredited items calibrated, they are clearly marked as unaccredited calibration.

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Approved By

General Calibration, Inc. - O. A. Manager