

Itron, Inc. / OW1

Page: 1 of 8

EMC Test Report

Project Number: 4038788

Report Number: 4038788EMC01 Revision Level: 0

Client: Itron, Inc.

Equipment Under Test: Electricity metering module

Model Name: OW1

Applicable Standards: ANSI C63.10:2013

ANSI C95.3:2010

KDB 447498 D01 General RF Exposure Guidance v06

CFR 47 Part 1.1309

RSS-102, Issue 5

Report issued on: 29 September 2016

Test Result: Compliant

Tested by:

Fabian Nica. Senior Engineering Technician

Reviewed by:

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or Testing done by SGS International Electrical Approvals in connection with distribution or use of the product described in this report must be approved by SGS international Electrical Approvals in writing.



Itron, Inc. / OW1 Page: 2 of 8

TABLE OF CONTENTS

1	SUI	MMARY OF TEST RESULTS
	1.1	MODIFICATIONS REQUIRED TO COMPLIANCE
2	GE	NERAL INFORMATION
	2.1	CLIENT INFORMATION
	2.2	TEST LABORATORY
	2.3	GENERAL INFORMATION OF EUT
	2.1	OPERATING MODES AND CONDITIONS
	2.2	EUT CONNECTION BLOCK DIAGRAM
	2.3	SYSTEM CONFIGURATIONS
	2.4	CABLE LIST
3		WER DENSITY
	3.1	TEST RESULT.
	3.2	TEST METHOD
	3.3	TEST METHOD.
	3.4	TEST EQUIPMENT
	3.5	TEST EQUI-MENT TEST SETUP PHOTOGRAPHS
	3.6	TEST DATA
4	RE	VISION HISTORY



Itron, Inc. / OW1

Page: 3 of 8

Summary of Test Results

Basic Standards	Test Result
Power density measurements compared to Uncontrolled environment	Compliant

Modifications Required to Compliance

None

General Information

2.1 Client Information

Name: Itron, Inc.

Address: 313 N HWY 11

City, State, Zip, Country: West Union, SC 29696, USA

Test Laboratory 2.2

Name: SGS North America, Inc.

Address: 620 Old Peachtree Road NW, Suite 100

City, State, Zip, Country: Suwanee, GA 30024, USA

General Information of EUT 2.3

Model Name: OW1 Model Number: NA

Serial Number: 8860000779

FCC ID: SK9OW1 IC: 864G-OW1

Sample Received Date: 23 September 2016

Date of testing: 23 September 2016

Operating Modes and Conditions 2.1

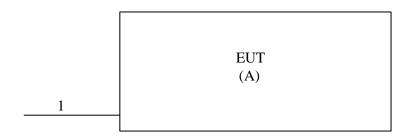
The EUT was programmed by the manufacturer to run continuously.



Itron, Inc. / OW1

Page: 4 of 8

2.2 EUT Connection Block Diagram



2.3 System Configurations

Device reference	Manufacturer	Description	Model Number	Serial Number
А	Itron, Inc	Electricity metering module	NA	8860000779

2.4 Cable List

Cable reference	Port Name	Start	End	Cable Length (m)	Ferrite installed?	Shielded?
1	AC Power	AC Mains	EUT	2.00	N	N



Itron, Inc. / OW1 Page: 5 of 8

Tester: FRN

Power Density

Test Result 3.1

Test Description	Basic Standard	Test Result		
Power Density	KDB 447498	Compliant		

Test Method 3.2

Setup:

- EUT placed in center of turntable at a height of 1.5 m above the ground plane, which was covered with absorbers in accordance with ANSI C63.10:2013.
- A measurement probe was place on an adjustable mast at a distance of 20 cm from the EUT in the location of expected highest measurement
- The turntable was rotated 360 degrees to determine the azimuth of maximum response. The mast was adjusted to find the maximum response and included the upper and lower boundaries where the measured value was within 10% of the limit. The procedure was repeated until a stable reading was obtained.
- The maximum response was recorded.

Test Site 3.3

3m Absorber Lined Shielded Enclosure (ALSE), Suwanee, GA

Environmental Conditions

Temperature: 22.9 °C Relative Humidity: 53.3 %

Test Equipment 3.4

Test Date: 23-Sep-2016

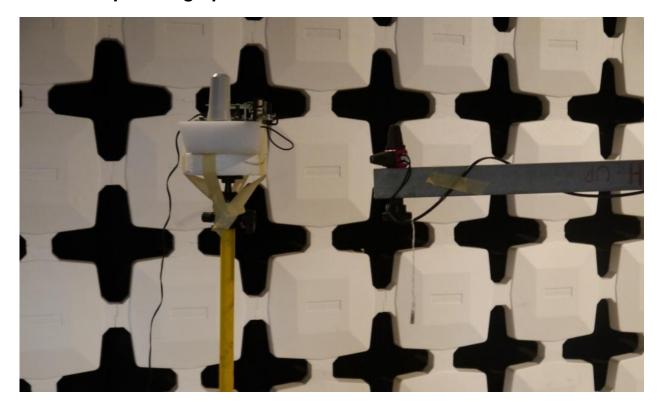
Equipment	Model	Manufacturer	Asset Number	Cal Due Date
ISOTROPIC FIELD PROBE (150KHZ-6GHZ)	HI-6105	ETS LINDGREN	B085740	16-Aug-2017
FIELD MONITOR	HI-6100	ETS LINDGREN	B079819	CNR
MULTI-DEVICE CONTROLLER	2090	ETS LINDGREN	B079818	CNR

Note: The equipment calibration period is 1 year.

Itron, Inc. / OW1

Page: 6 of 8

Test Setup Photographs 3.5





Itron, Inc. / OW1

Page: 7 of 8

Test Data

Frequency	Distance	Aziumuth	Elevation	Probe Display	Probe Factor	Field Str	Power Density	FCC Limit	Canada Limit	Result
MHz	cm	degrees	cm	V/m		V/m	mW/cm ²	mW/cm ²	mW/cm ²	
915.20	20.0	0.0	140.0	9.2	1.150	10.6	0.03	0.6	0.3	Pass
915.20	20.0	45.0	140.0	7.3	1.150	8.4	0.02	0.6	0.3	Pass
915.20	20.0	90.0	140.0	4.9	1.150	5.6	0.01	0.6	0.3	Pass
915.20	20.0	135.0	140.0	3.0	1.150	3.5	0.00	0.6	0.3	Pass
915.20	20.0	180.0	140.0	4.8	1.150	5.5	0.01	0.6	0.3	Pass
915.20	20.0	225.0	140.0	5.1	1.150	5.9	0.01	0.6	0.3	Pass
915.20	20.0	270.0	140.0	3.8	1.150	4.4	0.01	0.6	0.3	Pass
915.20	20.0	315.0	140.0	7.6	1.150	8.7	0.02	0.6	0.3	Pass
915.20	20.0	360.0	140.0	9.0	1.150	10.4	0.03	0.6	0.3	Pass



Itron, Inc. / OW1

Page: 8 of 8

4 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	29 September 2016
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