

FCC part 15.207 – proof of compliance

### REGULATORY TEST REPORT

**TITLE:** New Powerline Conducted Emissions Limits

**AUTHOR:** Drew Rosenberg

REV	ССО	DESCRIPTION OF CHANGE	DATE	APPROVALS	
		INITIAL RELEASE		Engineering	
		HALLIAL INCLEASE		Engineering	

#### **REVISION HISTORY**

		Engineering	
		Engineering	
		Engineering	

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Proof of Compliance: All legacy electric products

Test Data Summary

#### **Summary**

Test Data Summary

## FCC Part 15.207 update Powerline conducted emissions rule changes

(Itron Products that were compliant with no design changes required)

#### **Units Tested:**

FCC ID	Description	Model	Serial number tested
EO951ESS	Invensys Solid State	51ESS	20000303
EO941ER-1	41 Series ERT®	41ER	43122489, 40672899
EO945ES-1	45 Series ERT®	45EN/ER	42098397, 44211042
EO945ER-1	45 Series ERT®	45ES	41992554, 42695481

Note: None of these devices were redesigned to meet the new 15.207 rules. All are the same design as was used for the current grant.

Rule	Description	Pass/Fail
15.207/RSS-210 Sec. 6.6(a)	Powerline conducted emissions	Pass

Cognizant Personnel		
Drew Rosenberg	Regulatory Engineer	
Name	Title	
Mark Kvamme	Senior Technician	
Name	Title	

TCB Submittal Checklist Proof of Compliance: All legacy electric products

Item list for TCB evaluation

#### **TCB Submittal Checklist**

Item list for TCB evaluation

Item	Completed	Confidential
Test Report	Yes	No
Test Setup Photos – Powerline Conducted Emissions	Yes	No

Proof of Compliance: All legacy electric products

Powerline Conducted Emissions

#### Test 1: 15.207 / RSS-210 Sec. 6.6(a)

Powerline Conducted Emissions

Measure the AC powerline conducted emissions from 150kHz to 30 MHz using a  $50\mu\text{H}/50\Omega$  line impedance stabilization network (LISN) according to the procedure specified in ANSI C63.4. Verify that no emissions exceed the following limits:

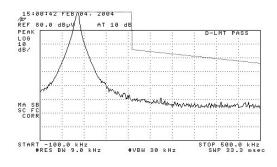
Frequency (MHz)	Quasi-Peak (dBμV)	Average (dBμV)
0.15-0.5	66 to 56 <sup>*</sup>	56 to 46
0.5-5	56	46
5-30	60	50

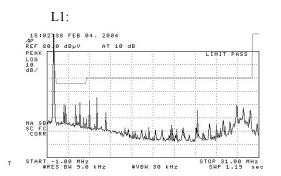
<sup>\*</sup>Decreases with the logarithm of frequency

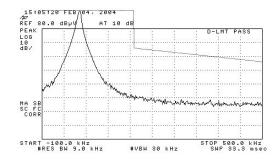
<b>Equipment Used</b>	Serial	Cal	Cal
	Number	Date	Due
HP 8593E	3543A02032	09/04	09/06
EMCO 3925/2	6552	01/05	01/07

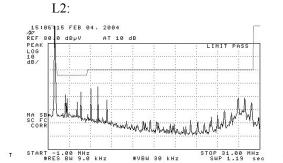
Date	Temp/Humidity	Tested by
2/4/2005	. , , ,	Mark Kvamme
1/4/1004	59 / 20	Mark Kvamme

#### FCC ID: EO951ESS (240VAC only)





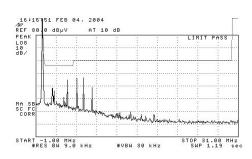


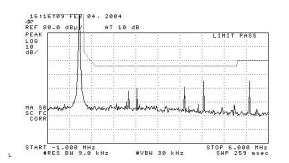


Proof of Compliance: All legacy electric products

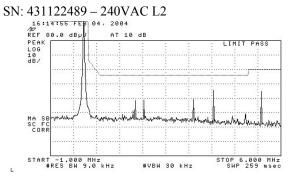
FCC ID: EO941ER-1

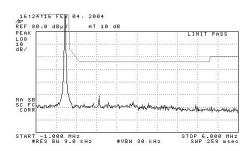
#### SN: 431122489 - 240VAC L1

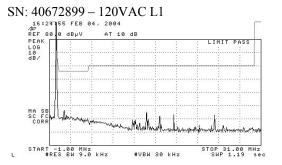


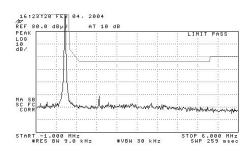


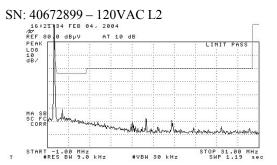
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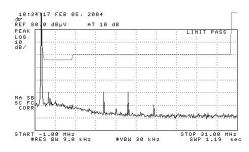




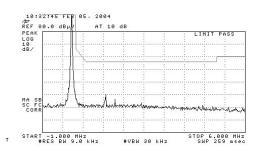


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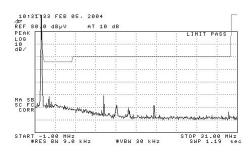
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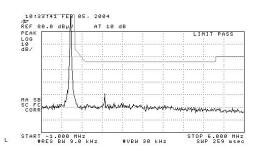


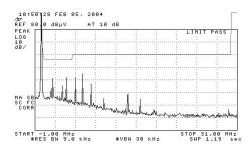
#### SN: 42098397 - 120VAC L1



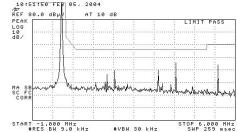
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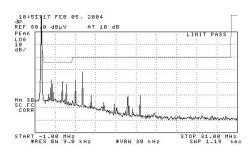




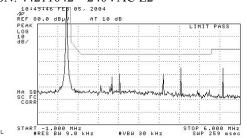


SN: 44211042 – 240VAC L1



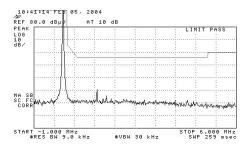


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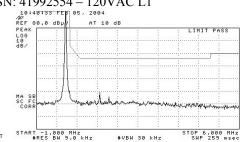


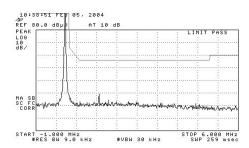
#### Proof of Compliance: All legacy electric products

#### FCC ID: EO945ER-1



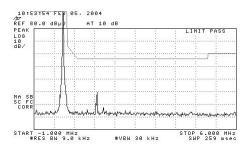
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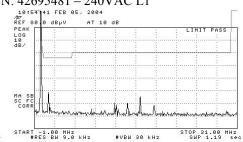


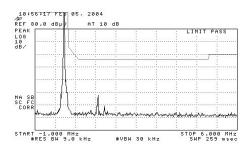
#### SN: 41992554 - 120VAC L2





#### SN: 42695481 - 240VAC L1





#### SN: 42695481 - 240VAC L2

