



REGULATORY TEST REPORT

TITLE: New Powerline Conducted Emissions Limits**AUTHOR:** Drew Rosenberg

REV	CCO	DESCRIPTION OF CHANGE	DATE	APPROVALS	
		INITIAL RELEASE		Engineering	
				Engineering	

REVISION HISTORY

				Engineering	
				Engineering	
				Engineering	

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**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

<u>Drew Rosenberg</u> Name	<u>Regulatory Engineer</u> Title
<u>Mark Kvamme</u> Name	<u>Senior Technician</u> Title



TCB Submittal Checklist

Item list for TCB evaluation

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

**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 μ H/50 Ω line impedance stabilization network (LISN) according to the procedure specified in ANSI C63.4. Verify that no emissions exceed the following limits:

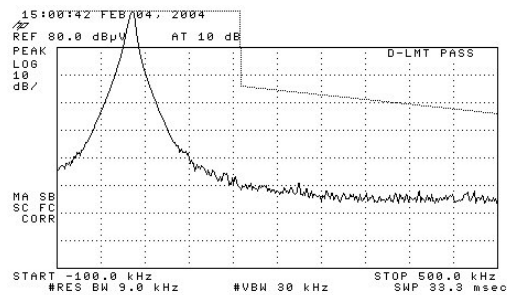
Frequency (MHz)	Quasi-Peak (dB μ V)	Average (dB μ V)
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of frequency

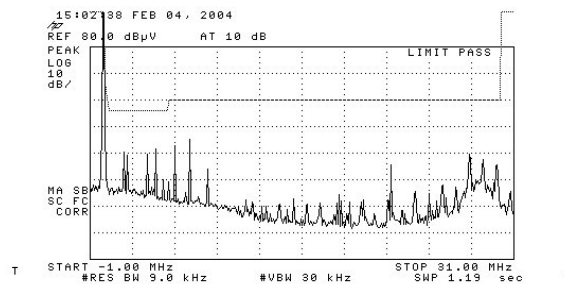
Equipment Used	Serial Number	Cal Date	Cal Due
HP 8593E	3543A02032	09/04	09/06
EMCO 3925/2	6552	01/05	01/07

Date	Temp/Humidity °F / %	Tested by
2/4/2005	54 / 16	Mark Kvamme
1/4/1004	59 / 20	Mark Kvamme

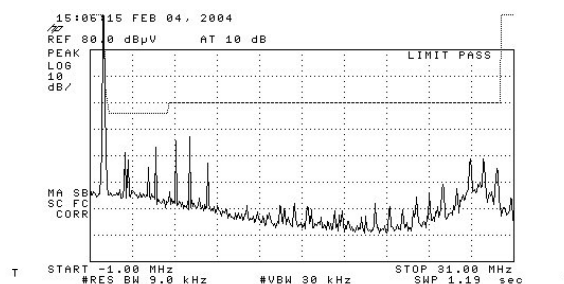
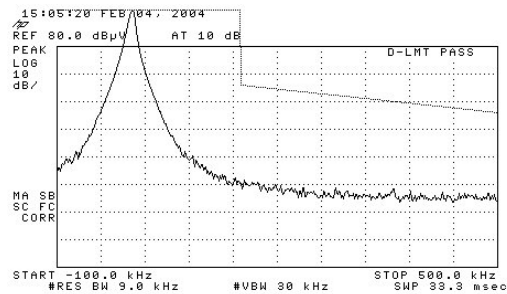
FCC ID: EO951ESS (240VAC only)



L1:

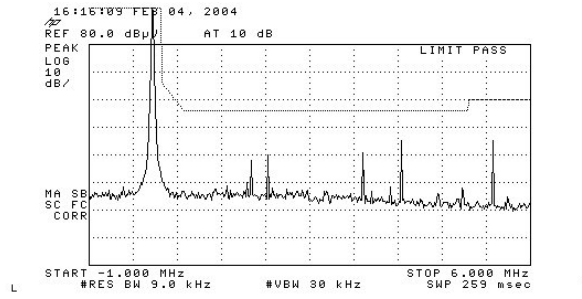
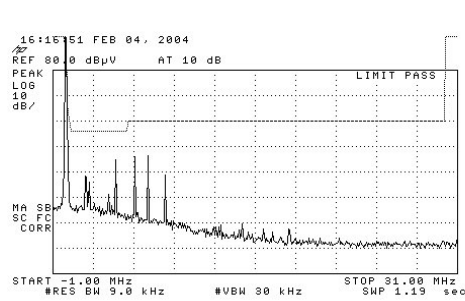


L2:

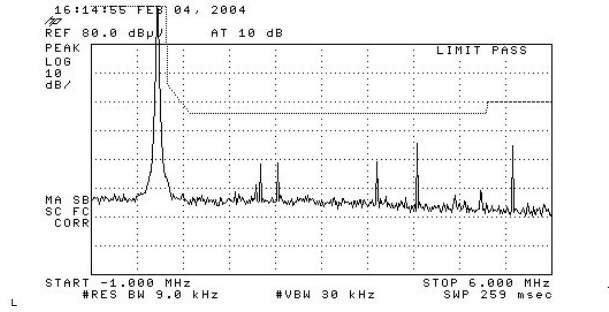
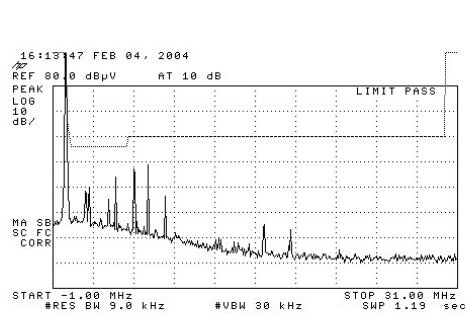


FCC ID: EO941ER-1

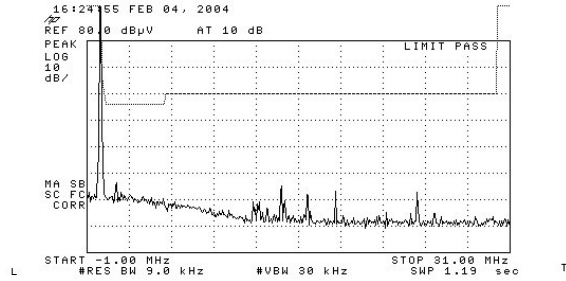
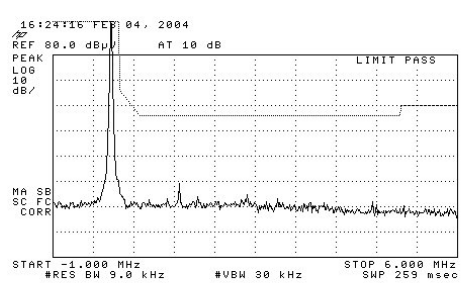
SN: 431122489 – 240VAC L1



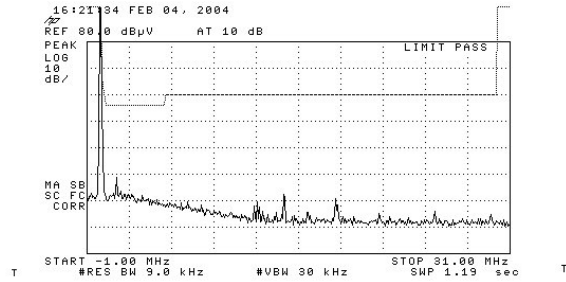
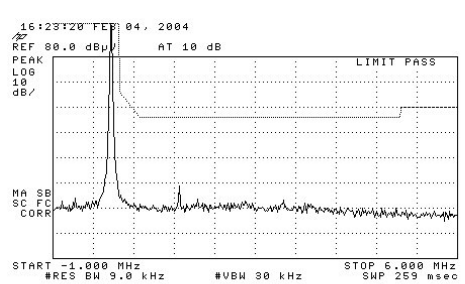
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SN: 40672899 – 120VAC L1

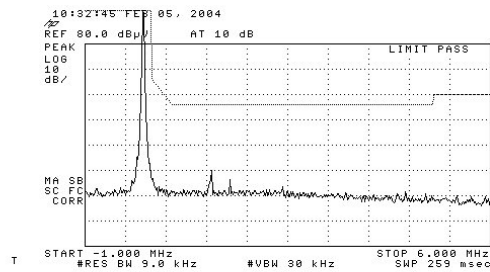
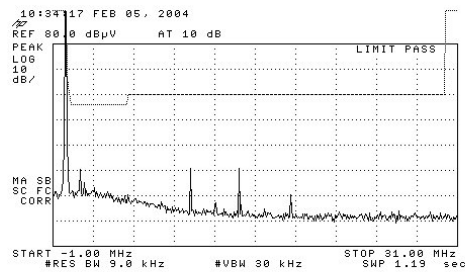


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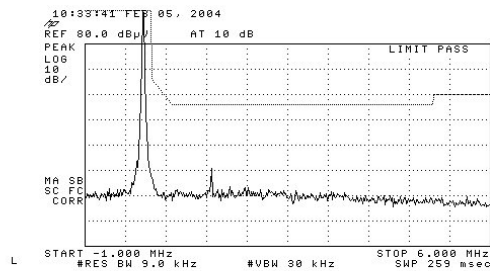
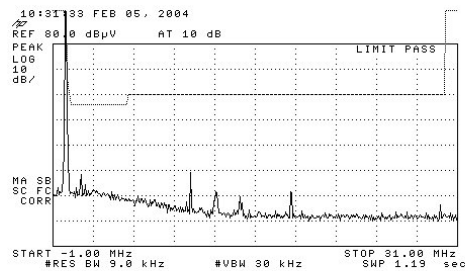


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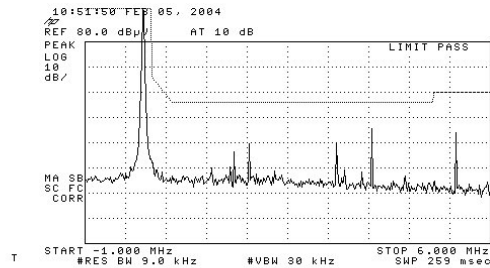
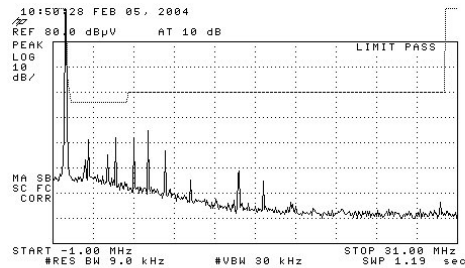
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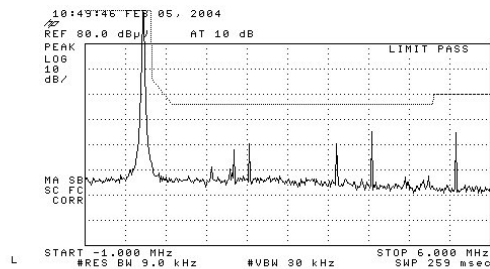
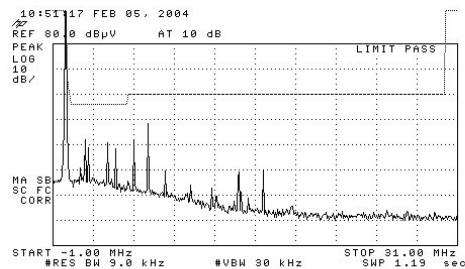
SN: 42098397 – 120VAC L2



SN: 44211042 – 240VAC L1



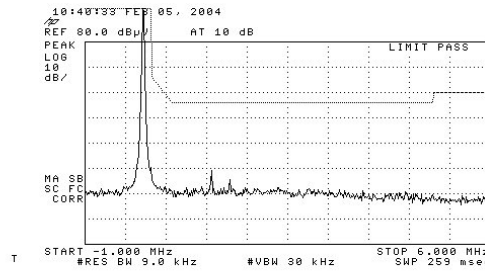
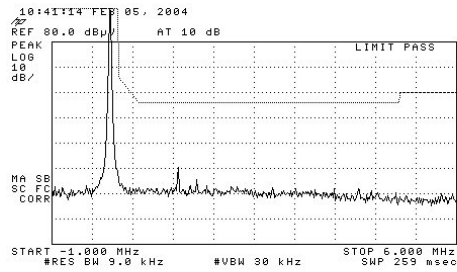
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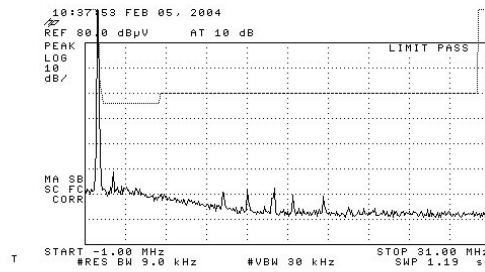
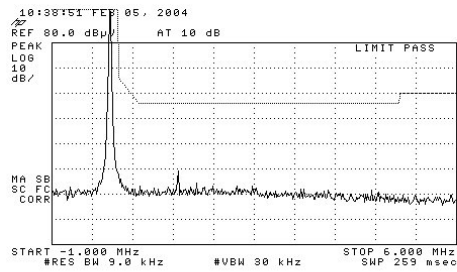


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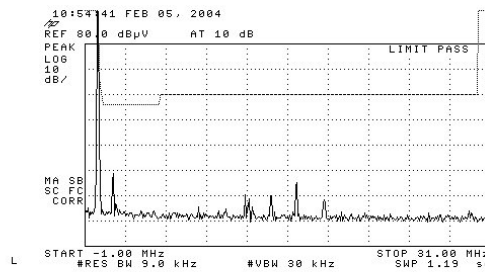
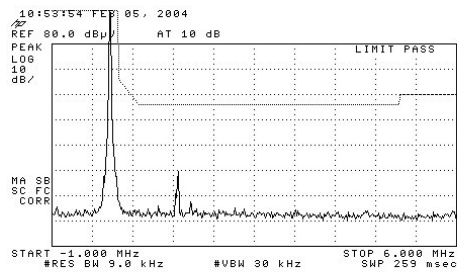
SN: 41992554 – 120VAC L1



SN: 41992554 – 120VAC L2



SN: 42695481 – 240VAC L1



SN: 42695481 – 240VAC L2

