Report Number:

FCC ID: SJM-C3.1W

Part 90 Certification

Rev: 101404

04-0272

Issue Date: October 18, 2004

Customer: Internet Energy Systems Model: C3I-W Wireless Transmitter

Radiated Emissions – Sub-Harmonics

(154 MHz Unit)

Frequency (MHz)	Test Data (dBm) @3m	Ant. Factor + Cable Atten. - Amp Gain	Results (uV/m)	FCC Limits (uV/m) @3m	Margin Below FCC Limit (dB)
51.13	-73.8	11.4	170.0	20414.3	41.6
102.97	-69.0	38.0	343.3	20414.3	35.5

SAMPLE CALCULATIONS:

RESULTS uV/m @ 3m = Antilog ((-73.8 + 11.4 + 107)/20) = 170.0 CONVERSION FROM dBm TO dBuV = 107 dB

Test Date: November 16, 2004

Tested by

Pavid P. Dlettren Name: David Blethen Signature:

FCC ID: SJM-C3.1W

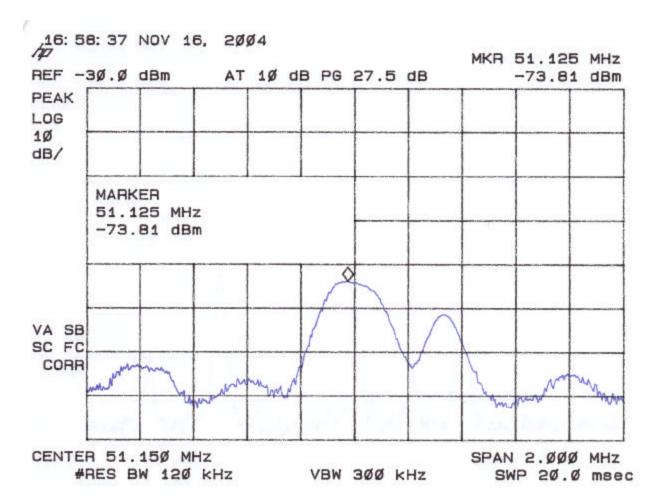
Part 90 Certification Rev: 101404

Issue Date: October 18, 2004

Report Number: 04-0272

Customer: Internet Energy Systems C3I-W Wireless Transmitter Model:

<u>Figure A</u> 154 MHz Sub-Harmonics



FCC ID: SJM-C3.1W

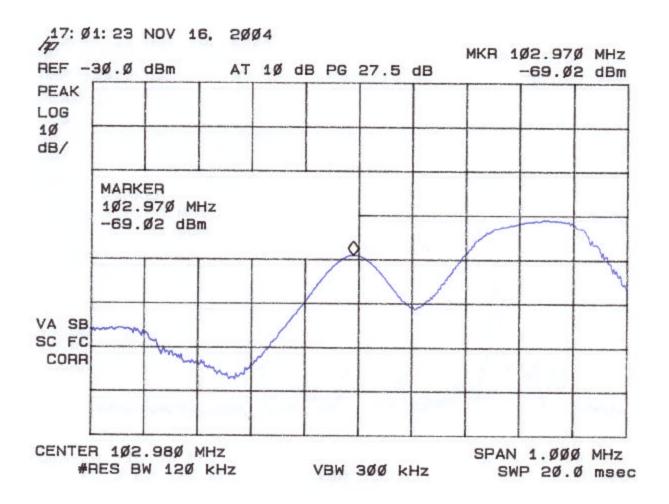
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Customer: Internet Energy Systems
Model: C3I-W Wireless Transmitter

<u>Figure B</u> 154 MHz Sub-Harmonics



FCC ID: SJM-C3.1W

Part 90 Certification

Rev: 101404

Report Number:

04-0272

Customer: Internet Energy Systems Model: C3I-W Wireless Transmitter

Issue Date: October 18, 2004

Radiated Emissions - Sub-Harmonics

(173 MHz Unit)

Frequency (MHz)	Test Data (dBm) @3m	Ant. Factor + Cable Atten. - Amp Gain	Results (uV/m)	FCC Limits (uV/m) @3m	Margin Below FCC Limit (dB)
57.76	-75.8	11.5	135.7	17101.6	42.0
115.53	-67.4	14.1	484.4	17101.6	31.0

SAMPLE CALCULATIONS:

RESULTS uV/m @ 3m = Antilog ((-75.8 + 11.5 + 107)/20) = 135.7 CONVERSION FROM dBm TO dBuV = 107 dB

November 16, 2004 **Test Date:**

Tested by

Dovid P. Dlettren Signature:

Name: David Blethen

FCC ID: SJM-C3.1W

Part 90 Certification

Rev: 101404

Report Number:

Customer:

Model:

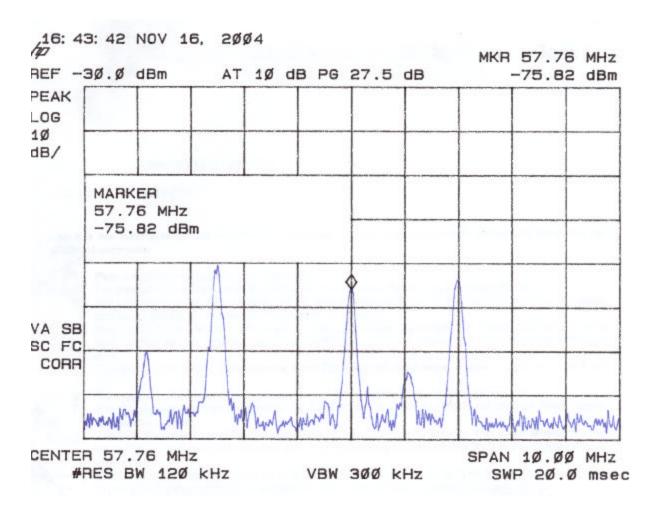
04-0272

Internet Energy Systems

C3I-W Wireless Transmitter

Issue Date: October 18, 2004

Figure C 173 MHz Sub-Harmonics



Report Number:

Customer:

Model:

FCC ID: SJM-C3.1W

Part 90 Certification

Rev: 101404

04-0272

Internet Energy Systems
C3I-W Wireless Transmitter

Issue Date: October 18, 2004

Figure D 173 MHz Sub-Harmonics

