

4.7 Transmitter Radiated Emissions in Restricted Bands, FCC Ref: 15.247(c),

Radiated emission measurements were performed from 30 MHz to 25000 MHz. Analyzer resolution is 100 kHz or greater for frequencies from 30 MHz to 1000 MHz and 1 MHz for frequencies above 1000 MHz.

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection and average detection (above 1 GHz) unless otherwise specified.

On the following pages, the emissions on the harmonics frequencies, the limits, and the margin of compliance are presented. These tests were made when the transmitter is in full radiated power.

The additional test was performed to show compliance with the requirement at the band-edge frequency 2483.5 MHz and up to 2500 MHz.

The transmitter was setup to transmit at the highest channel. The spectrum analyzer with resolution bandwidth 1 MHz was connected to the antenna terminal of the transmitter. The antenna conducted emissions in the band 2400 - 2483.5 MHz were measured and plotted. The difference (delta) between the levels on fundamental frequency and on the frequency 2483.5 MHz was determined. Then the field strength (E_0 in dBuV/m) of radiated emission at the fundamental frequency at 3 m was measured.

The radiated emission (E_1 in dBuV/m) at 2483.5 MHz was calculated as follows:

$$E_1 = E_0 - \text{delta.}$$

The same procedure was used to measure the radiated emissions at the frequency 2390 MHz and down to 2310 MHz.

For the test results, refer to plot numbers 5.a.4, 5.c.4, and 5.c.5 in section 4.5.

For transmitters with hopping channel ON times < 100 msec, DUTY CYCLE CORRECTION is permitted for emissions above 1000 MHz: Duty Cycle of 0 dB was used.

Radiated Emissions Test Data

Company:	Symbol	Model #:	LA-3021-500-US	Standard:	FOC 8 16 247 (R.E.)
EUT:	Antenna 1 on 500 mw C-radio	S/N #:		Units:	11
Project #:	J99013298	Test Date:	May 24 1999	Test Distance:	3 meters
Test Mode:	xmit 2402 500mw	Engineer:	Barry S.	Power Reduction:	0 dB

	Antenna Used			Pre-Amp Used			Cable Used			Transducer Used
Number:	8	7	17	8	12	10	12	0	0	0
Model:	EMCO 3115	EMCO 25	EMCO 3115	GD-PRD 6	410 40	AP110055	GM-101	None	None	None

[illegible]

- a) D.C.F.: Distance Correction Factor
b) Insert. Loss (dB) = Cable A + Cable B + Cable C.
c) Net (dB) = Reading + Antenna Factor - Pre-amp + Insert. Loss. - Transducer Loss - Duty Relaxation (transmitter only).
d) Negative signs (-) in Margin column signify levels below the limits.
e) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.



Intertek Testing Services

Radiated Emissions Test Data

Company:	Symbol	Model #:	LA-3021-500-US	
EUT:	Antenna 1 on 500 mw C-radio	S/N #:		11
Project #:	J99013298	Test Date:	May 24 1999	3
Test Mode:	xmit 2440 500mw	Engineer:	Barry S.	0

8	7	17	8	12	10	12	0	0	0
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[illegible]

Notes	a) D.C.F.:Distance Correction Factor
	b) Insert Loss (dB) = Cable A + Cable B + Cable C .
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Intertek Testing Services

Radiated Emissions Test Data

Company:	Symbol	Model #:	LA-3021-500-US
EUT:	Antenna 1 on 500 mw C-radio	S/N #:	11
Project #:	J99013298	Test Date:	May 24 1999
Test Mode:	xmit 2480 500mw	Engineer:	Barry S.

[illegible][illegible]

Notes:	a) D.C.F.:Distance Correction Factor
	b) Insert. Loss (dB) = Cable A + Cable B + Cable C .
	c) Net (dB) = Reading + Antenna Factor - Pre-amp + Insert. Loss. - Transducer Loss - Duty Relaxation (transmitter only).
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Intertek Testing Services

Radiated Emissions Test Data

Company:	Symbol	Model #:	LA-3021-500-US	
EUT:	Antenna 2 on 500 mw C-radio	S/N #:		11
Project #:	J89013298	Test Date:	May 13 1999	3
Test Mode:	xmit 2402 500mw	Engineer:	Barry S.	0

8	7	17	8	12	10	12	0	0	0
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[illegible]

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Intertek Testing Services

Radiated Emissions

Company:	Symbol	Model #:	LA-3021-500-US	
EUT:	Antenna 2 on C-radio	S/N #:		11
Project #:	J99013298	Test Date:	May 24 1999	3
Test Mode:	xmit 2480 500mw	Engineer:	Barry S.	0

8	7	17	8	12	10	12	0	0	0
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Notes:	a) D.C.F.:Distance Correction Factor
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Radiated Emissions Test Data

Company:	Symbol	Model #:	LA-3021-500-US
EUT:	Antenna 3 on C-radio	S/N #:	11
Project #:	J99013298	Test Date:	May 13 1999
Test Mode:	xmit 2440 500mw	Engineer:	Barry S.

8	7	17	8	12	10	12	0	0	0
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[illegible]

Notes:	a) D.C.F.:Distance Correction Factor
	b) Insert. Loss (dB) = Cable A + Cable B + Cable C .
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Company:	Symbol	Model #:	LA-3021-500-US		
EUT:	Antenna 3 on C-radio	S/N #:			11
Project #:	J99013298	Test Date:	May 13 1999		3
Test Mode:	xmit 2402 500mw	Engineer:	Barry S.		0

8	7	17	8	12	10	12	0	0	0
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[illegible]

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EUT:	Antenna 3 on C-radio	S/N #:		11
Project #:	J99013298	Test Date:	May 13 1999	3
Test Mode:	xmit 2480 500mw	Engineer:	Barry S.	0

8	7	17	8	12	10	12	0	0	0
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[illegible]

Notes:	a) D.C.F.:Distance Correction Factor
	b) Insert. Loss (dB) = Cable A + Cable B + Cable C .
	c) Net (dB) = Reading + Antenna Factor - Pre-amp + Insert. Loss. - Transducer Loss - Duty Relaxation (transmitter only).
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Radiated Emissions Test Data

Company: Symbol	Model #:# LA-3021-500-US	11 3 0
EUT: Antenna 4 on 500 mw C-radio	S/N #:	
Project #: J99013298	Test Date: May 24 1989	
Test Mode: xmit 2440 500mw	Engineer: Barry S.	

8	7	17	8	12	10	12	0	0	0
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[illegible]

- a) D.C.F.: Distance Correction Factor
- b) Insert. Loss (dB) = Cable A + Cable B + Cable C.
- c) Net (dB) = Reading + Antenna Factor - Pre-amp + Insert. Loss. - Transducer Loss - Duty Relaxation (transmitter only).
- d) Negative signs (-) in Margin column signify levels below the limits.
- e) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

Radiated Emissions Test Data

Company:	Symbol	Model #: LA-3021-500-US	
EUT:	Antenna 4 on 500 mw C-radio	S/N #:	11
Project #:	J99013298	Test Date: May 24 1999	3
Test Mode:	xmit 2402 500mw	Engineer: Barry S.	0

8	7	17	8	12	10	12	0	0	0
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[illegible]

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b) Insert. Loss (dB) = Cable A + Cable B + Cable C .
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Radiated Emissions Test Data

Company:	Symbol	Model #: LA-3021-500-US	
EUT:	Antenna 4 on 500 mw C-radio	S/N #:	11
Project #:	J89013298	Test Date: May 25 1999	3
Test Mode:	xmit 2480 500mw	Engineer: Barry S.	0

8	7	17	8	12	10	12	0	0	0
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[illegible]

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- b) Insert. Loss (dB) = Cable A + Cable B + Cable C .
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Intertek Testing Services

Radiated Emissions

Test Data

Company:	Symbol	Model #: LA-3021-500-US	
EUT:	Antenna 5 on C-radio	S/N #:	11
Project #:	J99013298	Test Date: May 24 1999	3
Test Mode:	xmit 2402 500mw	Engineer: Barry S.	0

Time	8	7	17	8	12	10	12	0	0	0
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[illegible]

* Noise Floor with RBW 300KHz

Notes:

- a) D.C.F.: Distance Correction Factor
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Intertek Testing Services

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EUT:	Antenna 5 on 500 mw C-radio	S/N #:	11
Project #:	J99013298	Test Date:	May 24 1999
Test Mode:	xmit 2440 500mw	Engineer:	Barry S.
			0

8	7	17	8	12	10	12	0	0	0
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[illegible]

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Radiated Emissions

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Project #:	J99013298	Test Date:	May 24 1999	3
Test Mode:	xmit 2480 500mw	Engineer:	Barry S.	0

8	7	17	8	12	10	12	0	0	0
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[illegible]

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EUT:	Antenna 6 on 500 mw C-radio	S/N #:	11
Project #:	J99013298	Test Date:	May 25 1999
Test Mode:	xmit 2402 500mw	Engineer:	Barry S.
			3
			0

8	7	17	8	12	10	12	0	0	0
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[illegible]

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Test Mode:	xmit 2440 500mw	Engineer:	Barry S.

8	7	17	8	12	10	12	0	0	0
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[illegible]

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Radlated Emissions

Test Data

Company:	Symbol	Model #:	LA-3021-500-US	
EUT:	Antenna 6 on 500 mw C-radio	S/N #:		11
Project #:	J99013288	Test Date:	May 25 1999	3
Test Mode:	xmit 2480 500mw	Engineer:	Barry S.	0

8	7	17	8	12	10	12	0	0	0
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[illegible]

- a) D.C.F.:Distance Correction Factor
b) Insert. Loss (dB) = Cable A + Cable B + Cable C .
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Radiated Emissions Test Data

Company:	Symbol	Model #:	LA-3021-500-US
EUT:	Antenna 7 on C-radio	S/N #:	11
Project #:	J99013298	Test Date:	May 24 1999
Test Mode:	xmit 2402 500mw	Engineer:	Barry S.

8	7	17	8	12	10	12	0	0	0
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[illegible]

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Intertek Testing Services

Radiated Emissions Test Data

Company:	Symbol	Model #:	LA-3021-500-US	
EUT:	Antenna 7 on C-radio	S/N #:		11
Project #:	J99013298	Test Date:	May 24 1999	3
Test Mode:	xmit 2440 500mw	Engineer:	Barry S.	0

8	7	17	8	12	10	12	0	0	0
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[illegible]

* Noise Floor with RBW 300KHz

a) D.C.F.:Distance Correction Factor
b) Insert. Loss (dB) = Cable A + Cable B + Cable C .
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Radiated Emissions Test Data

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EUT: Antenna 7 on C-radio	S/N #:		11
Project #: J99013298	Test Date: May 24 1999		3
Test Mode: xmit 2480 500mw	Engineer: Barry S.		0

8	7	17	8	12	10	12	0	0	0
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[illegible]

Notes

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Test Mode:	xmit 2480 500mw	Engineer:	Barry S.	0

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Radiated Emissions Test Data

Company:	Symbol	Model #:	LA-3021-500-US	Serial #:	11
EUT:	Antenna 9 on 500 mw C-radio	S/N #:		Test Date:	3
Project #:	J89013298	Test Date:	May 25 1999	Engineer:	0
Test Mode:	xmit 2402 500mw	Engineer:	Barry S.		

8	7	17	8	12	10	12	0	0	0
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Test Mode:	xmit 2480 500mw	Engineer:	Barry S.		0

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Intertek Testing Services

Radiated Emissions Test Data

Company:	Symbol	Model #: LA-3021-500-US	
EUT:	Antenna 10 on 500 mw C-radio	S/N #:	11
Project #:	J99013298	Test Date: May 24 1999	3
Test Mode:	xmit 2402 500mw	Engineer: Barry S.	0

8	7	17	8	12	10	12	0	0	0
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4804	36.7	Peak	8	8	V	33.5	28.1	3.2	0.0	45.3	74.0	-28.7
4804	30.4	Ave.	8	8	V	33.5	28.1	3.2	0.0	39.0	54.0	-15.0
7206	40.6	Peak	8	8	V	38.0	28.0	4.3	0.0	54.9	74.0	-19.1
7206	34.2	Ave.	8	8	V	38.0	28.0	4.3	0.0	48.5	54.0	-5.5
12010	48.1	Peak	8	10	V	42.5	39.1	5.9	0.0	57.4	74.0	-16.8
12010	36.8	Ave.	8	10	V	42.5	39.1	5.9	0.0	48.0	54.0	-8.0
19216	42.2*	Peak	17	12	V	40.2	23.3	7.1	-9.5	58.7	74.0	-17.3
19216	30.8*	Ave.	17	12	V	40.2	23.3	7.1	-9.5	45.3	54.0	-8.7
21618	44.5*	Peak	17	12	V	40.3	24.0	7.5	-9.5	58.8	74.0	-15.2
21618	33.3*	Ave.	17	12	V	40.3	24.0	7.5	-9.5	47.6	54.0	-6.4

* Noise Floor with RBW 300KHz

- a) D.C.F.:Distance Correction Factor
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- e) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

Radiated Emissions

Company:	Symbol	Model #:#	LA-3021-500-US
EUT:	Antenna 10 on 500 mw C-radio	S/N #:	11
Project #:	J99013298	Test Date:	May 24 1999
Test Mode:	xmit 2440 500mw	Engineer:	Barry S.
			3
			0

8	7	17	8	12	10	12	0	0	0
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[illegible]

- a) D.C.F.:Distance Correction Factor
- b) Insert. Loss (dB) = Cable A + Cable B + Cable C .
- c) Net (dB) = Reading + Antenna Factor - Pre-amp + Insert. Loss. - Transducer Loss - Duty Relaxation (transmitter only).
- d) Negative signs (-) in Margin column signify levels below the limits.
- e) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

Radiated Emissions

Company:	Symbol	Model #: LA-3021-500-US	
EUT:	Antenna 10 on 500 mw C-radio	S/N #:	11
Project #:	J99013298	Test Date: May 24 1999	3
Test Mode:	xmit 2480 500mw	Engineer: Barry S.	0

8	7	17	8	12	10	12	0	0	0
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[illegible]

- a) D.C.F.:Distance Correction Factor
b) Insert. Loss (dB) = Cable A + Cable B + Cable C .
c) Net (dB) = Reading + Antenna Factor - Pre-amp + Insert. Loss. - Transducer Loss - Duty Relaxation (transmitter only).
d) Negative signs (-) in Margin column signify levels below the limits.
e) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

Radiated Emissions Test Data

Company:	Symbol	Model #:	LA-3021-500-US	
EUT:	Antenna 11 on 500 mw C-radio	S/N #:		11
Project #:	J99013298	Test Date:	May 24 1999	3
Test Mode:	xmit 2402 500mw	Engineer:	Barry S.	0

8	7	17	8	12	10	12	0	0	0
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[illegible]

- a) D.C.F.:Distance Correction Factor
b) Insert. Loss (dB) = Cable A + Cable B + Cable C .
c) Net (dB) = Reading + Antenna Factor - Pre-amp + Insert. Loss. - Transducer Loss - Duty Relaxation (transmitter only).
d) Negative signs (-) in Margin column signify levels below the limits.
e) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.