APPLICANT: ADI COMMUNICATIONS CORPORATION

FCC ID: MKDAR447

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.109
REQUIREMENTS: 30 to 80 MHz: 40.0 dBuV/M @ 3 METERS
88 to 216 MHz: 43.5 dBuV/M
216 to 960 MHz: 46.0 dBuV/M
ABOVE 960 MHz: 54.0 dBuV/M

TEST RESULTS: A search was made of the spectrum from 30 to 1000 MHz and the measurements indicate that the unit DOES meet the FCC requirements.

TEST DATA:

TUNED FREQ MHz	EMISSION FREQUENCY MHz	METER READING AT 3 METERS dBuV	COAX LOSS dB	ANTENNA CORRECTION FACTOR dB	FIELD STRENGTH dBuV/m@3m	MARGIN dB	ANT
430.00	399.14	22.20	1.40	16.98	40.58	5.42	H
430.00	798.00	3.30	2.00	22.01	27.31	18.69	V
435.00	404.12	21.60	1.60	17.09	40.29	5.71	H
435.00	808.24	3.50	2.90	22.43	28.83	17.17	V
440.00	409.15	22.60	1.60	17.21	41.41	4.59	H
440.00	818.30	2.10	2.90	22.95	27.95	18.05	V

SAMPLE CALCULATION: FSdBuV/m = MR(dBuV) + ACFdB.

TEST PROCEDURE: ANSI STANDARD C63.4-1992 using a Hewlett Packard Model 8566B spectrum analyzer, a Hewlett Packard Model 85685A Preselector, a Hewlett Packard Model 85650A Quasi-Peak adapter, an Electro-Metric Dipole Kit, and an Eaton Model 94455-1
Biconical Antenna. The bandwidth of spectrum analyzer was 100 kHz with an appropriate sweep speed. When an emission was

found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The receiver was put into the coherant mode by placing an antenna driven by a signal generator off site. The UUT was tested in 3 orthogonal planes.

PERFORMED BY: S. S. SANDERS DATE: June 14, 1999
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