



Engineering and Testing for EMC and Safety Compliance

APPLICATION FOR FCC CLASS B CERTIFICATION
WIDE BAND COMMUNICATIONS RECEIVER

MODEL: DJ-C7T
FCC ID: PH3DJ-C7T

Alinco Incorporated
Electronics Division
Shin-Dai Building 9F
2-6, 1-Chome, Dojimahama, Kita-ku
Osaka 530-0004 Japan

April 22, 2004

STANDARDS REFERENCED FOR THIS REPORT	
PART 2: 2003	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS
PART 15: 2003	RADIO FREQUENCY DEVICES
ANSI C63.4-2001	STANDARD FORMAT MEASUREMENT/TECHNICAL REPORT PERSONAL COMPUTER AND PERIPHERALS
RSS-215; ISSUE 1 (PROVISIONAL): 1999	ANALOGUE SCANNER RECEIVERS

FCC Rules Parts	Frequency Range (MHz)	Output Power (W)	Frequency Tolerance	Emission Designator
15.121	88.1-173.9875 and 380-511.9875	N/A	N/A	N/A

REPORT PREPARED BY:

Rhein Tech Laboratories, Inc.

Test Engineer: Daniel Baltzell
Administrative Writer: Daniel Baltzell

Document Number: 2004067

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1 GENERAL INFORMATION

The following application for FCC Type Certification of a Transceiver (Analog Scanner Receiver portion) is prepared on behalf of Alinco Incorporated; Electronics Division, in accordance with Part 2, and Part 15, Subparts A and B of the Federal Communications Commissions rules and regulations and Industry Canada RSS-215. The Equipment Under Test (EUT) was Model DJ-C7T, FCC ID: PH3DJ-C7T. The test results reported in this document relate only to the item that was tested.

All measurements contained in this Application were conducted in accordance with ANSI C63.4 Methods of Measurement of Radio Noise Emissions, 2001. The instrumentation utilized for the measurements conforms to the ANSI C63.4 standard for EMI and Field Strength Instrumentation. Some accessories are used to increase sensitivity and prevent overloading of the measuring instrument. Calibration checks are performed regularly on the instruments, and all accessories including the high pass filter, preamplifier and cables.

All radiated emissions measurements were performed manually at Rhein Tech Laboratories. The radiated emissions measurements required by the rules were performed on the three-meter, open field; test range maintained by Rhein Tech Laboratories, 360 Herndon Parkway, Suite 1400, Herndon, Virginia 20170. A complete description and site attenuation measurement data have been placed on file with the Federal Communications Commission. The power line conducted emissions measurements were performed in a shielded enclosure also located at the Herndon, Virginia facility. The FCC accepts Rhein Tech Laboratories, Inc. as a facility available to do measurement work for others on a contractual basis.

1.1 MODIFICATIONS

No modifications were made during testing.

1.2 RELATED SUBMITTAL(S)/GRANT(S)

This is an original certification submission.

1.3 TEST METHODOLOGY

Radiated testing was performed according to the procedures in ANSI C63.4 2001. Radiated testing was performed at an antenna-to-EUT distance of 3 meters.

1.4 TEST FACILITY

The open area test site and conducted measurement facility used to collect the radiated data is located on the parking lot of Rhein Tech Laboratories, 360 Herndon Parkway, Suite 1400, Herndon, Virginia 20170. This site has been fully described in a report, submitted to and approved by the Federal Communications Commission, to perform AC line conducted and radiated emissions testing (ANSI C63.4 2001).

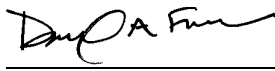
2 CONFORMANCE STATEMENT

STANDARDS REFERENCED FOR THIS REPORT	
PART 2: 2003	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS
PART 15: 2003	RADIO FREQUENCY DEVICES
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FCC Rules Parts	Frequency Range (MHz)	Output Power (W)	Frequency Tolerance	Emission Designator
15.121	88.1-173.9875 and 380-511.9875	N/A	N/A	N/A

I, the undersigned, hereby declare that the equipment tested and referenced in this report conforms to the identified standard(s) as described above. No modifications were made to the equipment during testing in order to achieve compliance with these standards.

Furthermore, there was no deviation from, additions to, or exclusions from, the ANSI C63.4 test methodology.

Signature: 

Date: April 22, 2004

Typed/Printed Name: Desmond A. Fraser

Position: President
(NVLAP Signatory)

 Accredited by the National Voluntary Accreditation Program for the specific scope of accreditation under Lab Code 20061-0.

Note: This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

3 SYSTEM TEST CONFIGURATION

3.1 JUSTIFICATION

To complete the test configuration required by the FCC, the receiver was connected to an external antenna, which receives a signal from a signal generator output. With the antenna installed, the receiver indicator was used to determine optimal reception. The EUT's Intermediate Frequencies (IF), Local Oscillators (LO), crystal oscillators and harmonics of each were investigated. Conducted emission was measured from the AC port of the charger. All modes were investigated and tested including standby mode and scanning mode. The final radiated data was taken with the EUT locked to a set frequency.

3.2 EXERCISING THE EUT

The DJ-C7T is a receiver designed to function at the following frequency range: 88.1 MHz - 173.9875 MHz and 380 MHz – 511.9875 MHz. The following frequencies were tested: 98.1 MHz, 125 MHz, 155.000 MHz, 400 MHz, and 466 MHz. Each receiver frequency was measured independently. In order to activate the receiver circuitry; a signal was transmitted from a signal generator. This allowed the EUT to function in its typical state throughout the course of all testing. There were no deviations from the test standard(s) and/or methods.

3.3 TEST SYSTEM DETAILS

The test sample was received on April 15, 2004. The FCC Identifiers for all equipment, plus descriptions of all cables used in the tested system are:

TABLE 3-1: EQUIPMENT UNDER TEST (EUT)

PART	MANUFACTURER	MODEL	SERIAL NUMBER	FCC ID	CABLE DESCRIPTION	RTL BAR CODE
Mobile Transceiver	Alinco, Inc.	DJ-C7T	M000402	PH3DJ-C7T	N/A	15856
Mobile Transceiver	Alinco, Inc.	DJ-C7T	M000402	PH3DJ-C7T	N/A	15857
3.7V 600mAh Li-ion Battery	Alinco, Inc.	EBP-58N	N/A	N/A	N/A	15858

3.4 CONFIGURATION OF TESTED SYSTEM

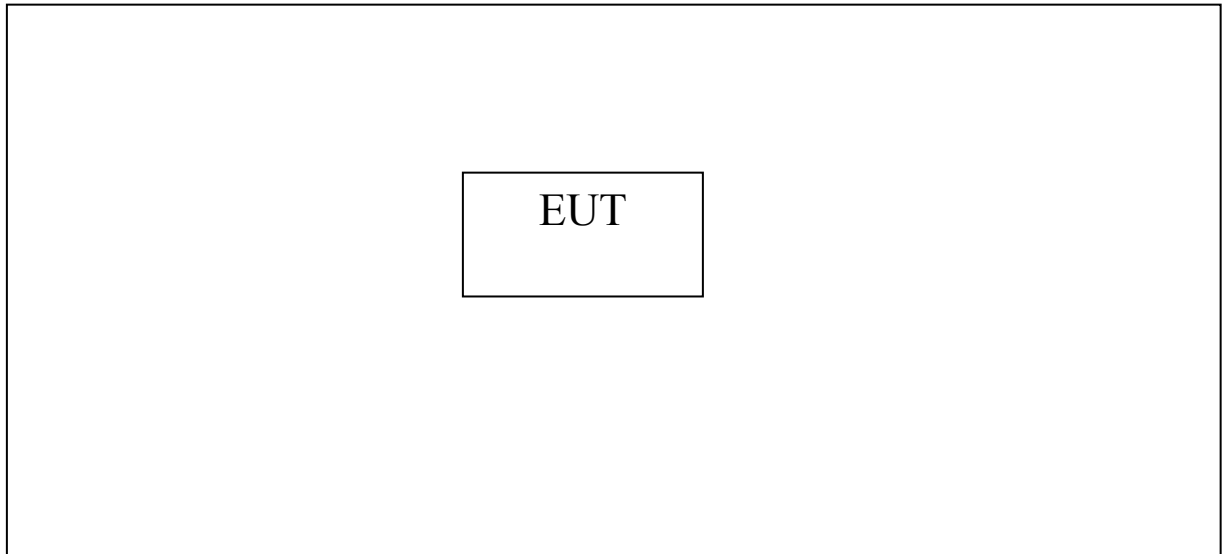


FIGURE 3-1: CONFIGURATION OF TESTED SYSTEM

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4 RADIATED EMISSIONS

4.1 TEST METHODOLOGY FOR RADIATED EMISSIONS MEASUREMENTS

Before final measurements of radiated emissions were made on the open-field three/ten meter range, the EUT was scanned indoors at one meter and three meter distances, in order to determine its emissions spectrum signature. The physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emissions in amplitude, direction and frequency. This process was repeated during final radiated emissions measurements on the open-field range, at each frequency, in order to insure that maximum emission amplitudes were attained.

Final radiated emissions measurements were made on the three-meter, open-field test site. The EUT was placed on a nonconductive turntable approximately 0.8 meters above the ground plane. The spectrum was examined from 30 MHz to 1000 MHz using a spectrum analyzer, a quasi-peak adapter, and EMCO log periodic and biconical antenna. In order to gain sensitivity, a preamplifier was connected in series between the antenna and the input of the spectrum analyzer.

At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters in order to determine the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarizations. The spectrum analyzer's 6 dB bandwidth was set to 120 kHz, and the analyzer was operated in the CISPR quasi-peak detection mode. No video filter less than 10 times the resolution bandwidth was used. The second harmonic of the highest LO was tested. The highest emission amplitudes relative to the appropriate limit were measured and recorded in this report.

Note: Rhein Tech Laboratories, Inc. has implemented procedures to minimize errors that occur from test instruments, calibration, procedures, and test setups. Test instrument and calibration errors are documented from the manufacturer or calibration lab. Other errors have been defined and calculated within the Rhein Tech quality manual, section 6.1. Rhein Tech implements the following procedures to minimize errors that may occur: yearly as well as daily calibration methods, technician training, and emphasis to employees on avoiding error.

4.2 RADIATED EMISSION TEST DATA

TABLE 4-1: RADIATED EMISSIONS: (INPUT FREQUENCY: 98.1 MHZ)

Temperature: 27°F					Humidity: 92%				
Emission Frequency (MHz)	Test Detector	Antenna Polarity (H/V)	Turntable Azimuth (deg)	Antenna Height (m)	Analyzer Reading (dBuV)	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
50.407	Qp	V	0	1.0	40.1	-21.9	18.2	40.0	-21.8
63.004	Qp	V	0	1.0	37.7	-23.4	14.3	40.0	-25.7
148.950	Qp	V	0	1.0	40.5	-17.6	22.9	43.5	-20.6
297.900	Qp	V	0	1.0	36.4	-15.2	21.2	46.0	-24.8
446.850	Qp	V	0	1.0	35.3	-11.1	24.2	46.0	-21.8

LO= 148.95 MHz, 1st IF = 21.7 MHz, 2nd IF = 450 kHz

TABLE 4-2: RADIATED EMISSIONS: (INPUT FREQUENCY: 125 MHZ)

Temperature: 27°F					Humidity: 92%				
Emission Frequency (MHz)	Test Detector	Antenna Polarity (H/V)	Turntable Azimuth (deg)	Antenna Height (m)	Analyzer Reading (dBuV)	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
50.407	Qp	V	0	1.0	40.1	-21.9	18.2	40.0	-21.8
63.004	Qp	V	0	1.0	37.7	-23.4	14.3	40.0	-25.7
175.850	Qp	V	355	1.0	49.3	-18.7	30.6	43.5	-12.9
351.699	Qp	V	0	1.0	33.5	-13.3	20.2	46.0	-25.8
527.548	Qp	V	0	1.0	33.8	-9.1	24.7	46.0	-21.3

LO= 175.85 MHz, 1st IF = 21.7 MHz, 2nd IF = 450 kHz

TABLE 4-3: RADIATED EMISSIONS: (INPUT FREQUENCY: 158 MHZ)

Temperature: 27°F					Humidity: 92%				
Emission Frequency (MHz)	Test Detector	Antenna Polarity (H/V)	Turntable Azimuth (deg)	Antenna Height (m)	Analyzer Reading (dBuV)	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
50.407	Qp	V	0	1.0	40.1	-21.9	18.2	40.0	-21.8
63.004	Qp	V	0	1.0	37.7	-23.4	14.3	40.0	-25.7
208.850	Qp	H	90	1.0	39.3	-18.4	20.9	43.5	-22.6
384.699	Qp	V	0	1.0	32.1	-12.6	19.5	46.0	-26.5
560.548	Qp	V	0	1.0	32.7	-8.1	24.6	46.0	-21.4

LO= 208.85 MHz, 1st IF = 21.7 MHz, 2nd IF = 450 kHz

TABLE 4-4: RADIATED EMISSIONS: (INPUT FREQUENCY: 400 MHZ)

Temperature: 27°F					Humidity: 92%				
Emission Frequency (MHz)	Test Detector	Antenna Polarity (H/V)	Turntable Azimuth (deg)	Antenna Height (m)	Analyzer Reading (dBuV)	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
50.407	Qp	V	0	1.0	40.1	-21.9	18.2	40.0	-21.8
63.004	Qp	V	0	1.0	37.7	-23.4	14.3	40.0	-25.7
450.850	Qp	V	90	1.0	54.4	-11.0	43.4	46.0	-2.6
901.700	Qp	V	90	1.0	45.7	-4.7	41.0	46.0	-5.0
1352.550	Av	V	90	2.0	36.1	1.4	37.5	54.0	-16.5

LO= 450.85 MHz, 1st IF = 21.7 MHz, 2nd IF = 450 kHz

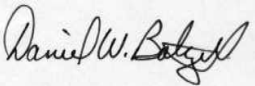
TABLE 4-5: RADIATED EMISSIONS: (INPUT FREQUENCY: 466 MHZ)

Temperature: 27°F					Humidity: 92%				
Emission Frequency (MHz)	Test Detector	Antenna Polarity (H/V)	Turntable Azimuth (deg)	Antenna Height (m)	Analyzer Reading (dBuV)	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
50.407	Qp	V	0	1.0	40.1	-21.9	18.2	40.0	-21.8
63.004	Qp	V	0	1.0	37.7	-23.4	14.3	40.0	-25.7
516.850	Qp	V	0	1.0	33.6	-9.4	24.2	46.0	-21.8
1033.700	Av	V	0	1.0	33.0	-3.4	29.6	54.0	-24.4
1550.550	Av	V	0	1.0	32.5	3.6	36.1	54.0	-17.9

LO= 516.85 MHz, 1st IF = 21.7 MHz, 2nd IF = 450 kHz

**All readings are quasi-peak, unless stated otherwise.*

TEST PERSONNEL:

Signature: 

Date: April 21, 2004 Typed Name: Daniel W. Baltzell

TABLE 4-6: EQUIPMENT USED FOR TESTING

* Note: The preamplifier's gain is included in the site correction factor.

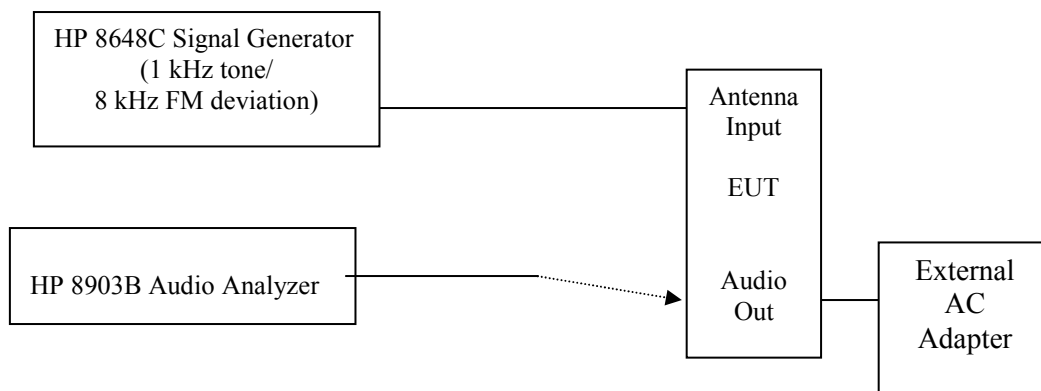
RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Date
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz - 22 GHz)	3138A07771	5/12/04
900930	Hewlett Packard	85662A	Spectrum Analyzer Display Section	3144A20839	5/12/04
900969	Hewlett Packard	85650A	Quasi-Peak Adapter	2412A00414	5/12/04
901053	Schaffner & Chase	CBL6112B	Bilog antenna (20 MHz - 2 GHz)	2648	9/3/04
*900905	Rhein Tech Laboratories, Inc.	PR-1040	Pre Amplifier 40dB (10 MHz - 2 GHz)	1006	9/10/04
900917	Hewlett Packard	8648C	Signal Generator (100 KHz - 3200 MHz)	3537A01741	5/2/04
900724	Antenna Research Associates, Inc.	LPB-2520	LOG Periodic /Biconal Antenna (25 - 1000 MHz)	1037	4/13/05

5 38 DB REJECTION TEST

A signal generator was connected to the receiver under test, and the output of the receiver was connected to an audio analyzer.

An FM signal was applied to the receiver antenna input with a 1 kHz tone modulated at 8 kHz deviation, and adjusted with the audio analyzer to produce a 12 dB SINAD. This was done across the receiver bands to determine a reference level. The reference level used was that with the highest sensitivity in all of the bands.

The output of the signal generator was then adjusted to a level 40 dB above the reference level established and set to a low, medium, and high frequency in both the mobile and base cellular bands: mobile = 824.04 MHz - 848.97 MHz; base = 869.04 MHz - 893.97 MHz. The squelch of the receiver was then set to a minimum threshold level, and scanning began from the lowest to the highest channel. Whenever the receiver stopped and “un-squelched”, that frequency was noted as a response. After all the frequencies of responses were noted, the signal generator was set to measure the sensitivity at each of these response frequencies. This measurement was the reference sensitivity for the particular received frequency measured. The audio analyzer measurement was used to measure the 12 dB SINAD and that is the spurious value. The difference between the reference sensitivity and the spurious value is the rejection ratio and must be at least 38 dB.



Frequencies used on the signal generator were 824.04, 836.50, 848.97 MHz for the mobile and 869.04, 881.50, 893.97 MHz for the Base.

The DJ-C7T unit reference level used was -52.6 dBm from the signal generator. The DJ-C7T unit was scanned from 118 MHz – 173.995 MHz for all channels (based on manufacturer's specifications.). Signals that were noted as responses were checked with the signal generator off. If they were still present, they were determined as ambient signals and removed from the response list. There was no signal available for the 38 dB rejection test requirements.

5.1 38 DB REJECTION TEST DATA FOR BASE BAND (869.040-893.970 MHZ)

TABLE 5-1: 38DB REJECTION {FREQUENCY INJECTED: 869.040 MHZ} (CELLULAR BAND)

Frequency Injected: 869.040 MHz		Temperature: 74°F; Humidity: 33%		
Frequency Detected (MHz)	Level 12dB SINAD at 869.040 MHz	Level 12dB at frequency detected	Rejection	Margin
No Frequencies Detected	N/A	N/A	N/A	N/A

TABLE 5-2: 38DB REJECTION {FREQUENCY INJECTED: 881.500 MHZ} (CELLULAR BAND)

Frequency Injected: 881.500 MHz		Temperature: 74°F; Humidity: 33%		
Frequency Detected (MHz)	Level 12dB SINAD at 881.50MHz	Level 12dB at frequency detected	Rejection	Margin
No Frequencies Detected	N/A	N/A	N/A	N/A

TABLE 5-3: 38DB REJECTION {FREQUENCY INJECTED: 893.970 MHZ} (CELLULAR BAND)

Frequency Injected: 893.970 MHz		Temperature: 74°F; Humidity: 33%		
Frequency Detected (MHz)	Level 12dB SINAD at 893.970MHz	Level 12dB at frequency detected	Rejection	Margin
No Frequencies Detected	N/A	N/A	N/A	N/A

5.2 38DB REJECTION TEST DATA FOR MOBILE BAND (824.040-848.970 MHZ)

TABLE 5-4: 38DB REJECTION {FREQUENCY INJECTED: 824.040 MHZ} (MOBILE BAND)

Frequency Injected: 824.040 MHz		Temperature: 74°F; Humidity: 33%		
Frequency Detected (MHz)	Level 12dB SINAD at 824.040MHz	Level 12dB at frequency detected	Rejection	Margin
No Frequencies Detected	N/A	N/A	N/A	N/A

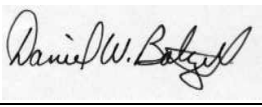
TABLE 5-5: 38DB REJECTION {FREQUENCY INJECTED: 836.500 MHZ} (MOBILE BAND)

Frequency Injected: 836.505 MHz		Temperature: 74°F; Humidity: 33%		
Frequency Detected (MHz)	Level 12dB SINAD at 836.500MHz	Level 12dB at frequency detected	Rejection	Margin
No Frequencies Detected	N/A	N/A	N/A	N/A

TABLE 5-6: 38DB REJECTION {FREQUENCY INJECTED: 848.970 MHZ} (MOBILE BAND)

Frequency Injected: 848.970 MHz		Temperature: 74°F; Humidity: 33%		
Frequency Detected (MHz)	Level 12dB SINAD at 848.970MHz	Level 12dB at frequency detected	Rejection	Margin
No Frequencies Detected	N/A	N/A	N/A	N/A

TEST PERSONNEL:

Signature: 

Date: April 22, 2004

Typed Name: Daniel Baltzell

TABLE 5-7: EQUIPMENT USED FOR TESTING

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Date
900917	Hewlett Packard	8648C	Signal Generator (100 kHz - 3200 MHz)	3537A01741	5/2/2004
901067	Hewlett Packard	8903B	Audio Analyzer (20 Hz - 100 kHz)	2303A00307	4/15/2005

6 CONCLUSION

The data in this measurement report shows that the Alinco Inc., Model DJ-C7T, FCC ID: PH3DJ-C7T, complies with all the requirements of Parts 2 and 15.121 of the FCC Rules and Industry Canada RSS-215, Issue 1.