

Engineering and Testing for EMC and Safety Compliance

Accredited under NVLAP Lab Code 200061-0

Certification Report

VHF FM Transceiver Model: DJ-V27T

FCC ID: PH3DJ-V27T IC: 3070C-DJV27T

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

May 23, 2007

Standards Referenced for	Standards Referenced for this Report					
Part 2: 2006	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations					
Part 15.121: 2006	Radio Frequency Devices; Scanning Receivers and Frequency Converters Used with Scanning Receivers					
ANSI C63.4-2003	Standard Format Measurement/Technical Report Personal Computer and Peripherals					
RSS-215; Issue 1 (Provisional)	Analogue Scanner Receivers					

Frequency Range (MHz)	Frequency Range (MHz) Output Power (W)		Emission Designator	
216 - 249.995	N/A	N/A	N/A	

REPORT PREPARED BY:

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Rhein Tech Laboratories, Inc.

Document Number: 2007176

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Client: Alinco, Inc. Model: DJ-V27T Standards: FCC 15.121 & IC RSS-215 Report: 2007176

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1 General Information

The following application for certification of an analog scanning receiver is prepared on behalf of Alinco Incorporated; Electronics Division, in accordance with the applicable portions of the FCC Rules and Regulations Parts 2 and 15 and Industry Canada RSS-215. The Equipment Under Test (EUT) is Model DJ-V27T, FCC ID: PH3DJ-V27T, IC: 3070C-DJV27T. 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, 2003. 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.

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 C63.4-2003. 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 C63.4-2003).

2 System Test Configuration

2.1 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 emissions were 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.

2.2 Exercising the EUT

The DJ-V27T is a VHF FM transceiver designed to function at the following frequency range: TX 222-224.995 MHz; RX 216-249.995 MHz. The transmitter portion of the transceiver is subject to the FCC/IC amateur radio rules and was not tested. The following receiver frequencies were tested: 216, 233, and 249.995 MHz. 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.

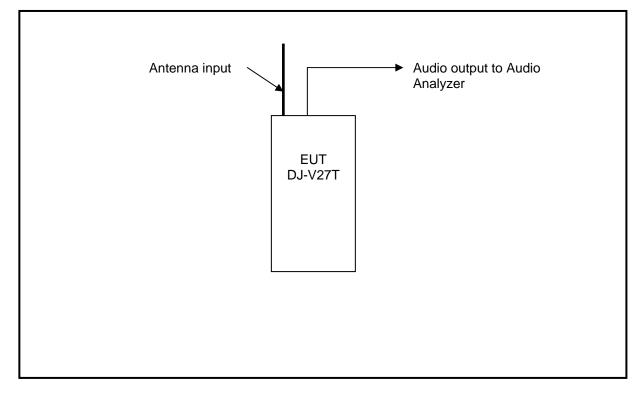
2.3 Test System Details

The test sample was received on May 11, 2007. The FCC Identifiers for all equipment, plus descriptions of all cables used in the tested system, are shown in the table that follows.

Client: Alinco, Inc. Model: DJ-V27T Standards: FCC 15.121 & IC RSS-215 Report: 2007176

Part	Manufacturer	Model	Serial Number	FCC ID	Cable Description	RTL Bar Code
VHF FM Mobile Scanning Receiver	Alinco	DJ-V27T	M000492	PH3DJ- V27T	N/A	17902
VHF FM Mobile Scanning Receiver	Alinco	DJ-V27T	M000491	PH3DJ- V27T	N/A	17903
12VDC Charger	Alinco	EDC-143	M000501	N/A	N/A	17097
AC Adapter	Alinco	EDC-146	N/A	N/A	1.9 m unshielded power	17001
Li-ion Rechargeable Battery	Alinco	EBP-63	N/A	N/A	N/A	17006
Li-ion Rechargeable Battery	Alinco	EBP-64	N/A	N/A	N/A	17007
Ni-MH Rechargeable Battery	Alinco	EBP-65	5007487	N/A	N/A	17904
Ni-MH Rechargeable Battery	Alinco	EBP-65	5005431	N/A	N/A	17905
Ni-MH Rechargeable Battery	Alinco	EBP-65	N/A	N/A	N/A	17530
Ni-MH Rechargeable Battery	Alinco	EBP-65	N/A	N/A	N/A	17531
Ni-MH Rechargeable Battery	Alinco	EBP-65	N/A	N/A	N/A	17532
Ni-MH Rechargeable Battery	Alinco	EBP-66	N/A	N/A	N/A	17009
Battery Case	Alinco	EDH-34	N/A	N/A	N/A	17533
Antenna	Alinco		N/A	N/A	N/A	17906
Antenna	Alinco		N/A	N/A	N/A	17907
Speaker Microphone	Alinco	EMS-62	N/A	N/A	N/A	17534
Belt Clip	Alinco	N/A	N/A	N/A	N/A	17535
Belt Clip	Alinco	N/A	N/A	N/A	N/A	17536

Table 2-1: Equipment Under Test (EUT)



2.4 Configuration of Tested System

3 AC Conducted Emissions - FCC Rules and Regulations Part 15 §15.107(b): Conducted Limits

3.1 Site and Test Description

The power line conducted emissions measurements were performed in a Series 81 type shielded enclosure manufactured by Rayproof. The EUT was assembled on a wooden table 80 centimeters high. Power was fed to the EUT through a 50-ohm/50 microhenry Line Impedance Stabilization Network (LISN). The EUT LISN was fed power through an A.C. filter box on the outside of the shielded enclosure. The filter box and EUT LISN housing are bonded to the ground plane of the shielded enclosure. A second LISN, the peripheral LISN, provides isolation for the EUT test peripherals. This peripheral LISN was also fed A.C. power. A metal power outlet box, which is bonded to the ground plane and electrically connected to the peripheral LISN, powers the EUT host peripherals.

The spectrum analyzer was connected to the A.C. line through an isolation transformer. The 50-ohm output of the EUT LISN was connected to the spectrum analyzer input through a Solar 100 kHz high-pass filter. The filter is used to prevent overload of the spectrum analyzer from noise below 100 kHz. Conducted emission levels were measured on each current-carrying line with the spectrum analyzer operating in the CISPR quasi-peak mode (or peak mode if applicable).

The analyzer's 6 dB bandwidth was set to 9 kHz. Video filter less than 10 times the resolution bandwidth is not used. Average measurements are performed in linear mode using a 10 kHz resolution bandwidth, a 1 Hz video bandwidth, and by increasing the sweep time in order to obtain a calibrated measurement. The emission spectrum was scanned from 150 kHz to 30 MHz. The highest emission amplitudes relative to the appropriate limits were measured and have been recorded.

3.2 Test Limits

Class A Line-Conducted Emissions								
Limit (dBµV)								
Frequency (MHz)	Frequency (MHz) Quasi-Peak Average							
0.15 to 0.50	79	66						
0.50 to 30.0	73	60						

Class B Line-Conducted Emissions									
Limit (dBµV)									
Frequency (MHz)	Frequency (MHz) Quasi-Peak Average								
0.15 to 0.50	66 to 56	56 to 46							
0.50 to 5.00	56	46							
5.00 to 30.00	60	50							

3.3 Conducted Emissions Test Data

Table 3-1:	Conducted Emissions Test Data – Mode RX, Neutral Side Line 1, 233 MHz
	Temperature: 74°F Humidity: 33%

	Temperature: 74°F Humidity: 33%									
Emission Frequency (MHz)	Test Detector	Analyzer Reading (dBuV)	Site Correction Factor (dB)	Emission Level (dBuV)	FCC B QP Limit (dBuV)	FCC B QP Margin (dBuV)	FCC B AV Limit (dBuV)	FCC B AV Margin (dBuV)	Pass/ Fail	
0.167	Pk	43.5	0.2	43.7	65.1	-21.4	55.1	-11.4	Pass	
0.313	Pk	41.1	0.3	41.4	59.9	-18.5	49.9	-8.5	Pass	
0.419	Pk	41.6	0.3	41.9	57.5	-15.6	47.5	-5.6	Pass	
0.519	Pk	30.3	0.2	30.5	56.0	-25.5	46.0	-15.5	Pass	
0.793	Pk	28.0	0.3	28.3	56.0	-27.7	46.0	-17.7	Pass	
3.050	Pk	14.4	1.0	15.4	56.0	-40.6	46.0	-30.6	Pass	
23.700	Pk	13.8	2.5	16.3	60.0	-43.7	50.0	-33.7	Pass	

Table 3-2:

Conducted Emissions Test Data – Mode RX, Hot Side Line 2, 233 MHz

	Temperature: 74°F Humidity: 33%								
Emission Frequency (MHz)	Test Detector	Analyzer Reading (dBuV)	Site Correction Factor (dB)	Emission Level (dBuV)	FCC B QP Limit (dBuV)	FCC B QP Margin (dBuV)	FCC B AV Limit (dBuV)	FCC B AV Margin (dBuV)	Pass/ Fail
0.169	Pk	43.0	0.2	43.2	65.0	-21.8	55.0	-11.8	Pass
0.308	Pk	40.3	0.3	40.6	60.0	-19.4	50.0	-9.4	Pass
0.421	Pk	40.9	0.3	41.2	57.4	-16.2	47.4	-6.2	Pass
0.549	Pk	30.5	0.2	30.7	56.0	-25.3	46.0	-15.3	Pass
3.540	Pk	14.8	1.0	15.8	56.0	-40.2	46.0	-30.2	Pass
14.600	Pk	15.3	2.1	17.4	60.0	-42.6	50.0	-32.6	Pass

Table 3-3: Equipment Used for Testing

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Date
901215	Hewlett Packard	8596EM	Spectrum Analyzer (9 kHz-12.8 GHz)	3826A00144	10/16/07
901084	AFJ International	LS16	16A LISN	16010020082	1/23/07

Test Personnel:

Daniel W. Bolgel

Signature:

Typed Name: Daniel Baltzell Date: May 11, 2007

4 Radiated Emissions – FCC Rules and Regulations Part 15 §15.109(a): Radiated Emissions Limits; RSS-215 Section 7 - Receiver Spurious 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 ensure 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 80 centimeters 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.

Client: Alinco, Inc. Model: DJ-V27T Standards: FCC 15.121 & IC RSS-215 Report: 2007176

4.2 Radiated Emissions Data

			Temper	ature: 84°F	Humidit	y: 38%			
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)
46.656	QP	V	180	1.0	52.2	-28.6	23.6	40.0	-16.4
177.155	QP	Н	90	1.5	41.6	-26.5	15.1	43.5	-28.4
194.165	QP	V	80	1.0	50.7	-26.5	24.2	43.5	-19.3
211.100	QP	V	80	1.2	44.3	-25.4	18.9	43.5	-24.6
303.100	QP	Н	130	1.5	30.9	-21.5	9.4	46.0	-36.6
349.627	QP	V	120	1.0	24.4	-20.4	4.0	46.0	-42.0
354.310	QP	Н	270	1.0	35.6	-19.7	15.9	46.0	-30.1
388.302	QP	Н	270	1.0	35.4	-19.4	16.0	46.0	-30.0
422.293	QP	V	5	1.3	35.2	-18.1	17.1	46.0	-28.9
582.450	QP	V	0	1.0	27.2	-15.7	11.5	46.0	-34.5

Table 4-1: Radiated Emissions – Mode RX

Notes: A low, middle, and high channel was checked for every frequency band. Limit/Distance: FCC B/3M

Table 4-2: Equipment Used for Testing

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Date
901364	Rhein Tech Laboratories	JS4- 00102600- 41-5P	Amplifier, 0.1-26 GHz, 28 dB gain	N/A	3/12/08
901215	Hewlett Packard	8596EM	Spectrum Analyzer (9 kHz-12.8 GHz)	3826A00144	10/16/07
901053	Schaffner Chase	CBL6112B	Bi-Log Antenna (20 MHz-2 GHz)	2648	11/01/07
901425	Insulated Wire, Inc.	KPS- 1503- 2400-KPS	RF cable, 20'	NA	12/5/07
901424	Insulated Wire Inc.	KPS- 1503-360- KPS	RF cable 36"	NA	12/5/07

Test Personnel:

Daniel W. Bolgo Signature:

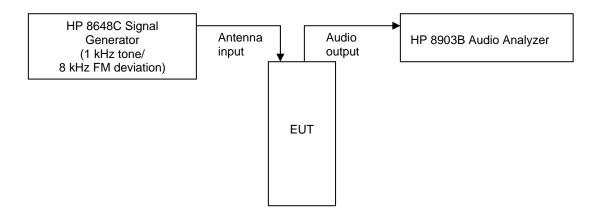
Typed Name: Daniel Baltzell Date: May 11, 2007

5 FCC Rules and Regulations Part 15 §15.121(b) - 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 5 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: the mobile band being 824.04 MHz-848.97 MHz, and the base band being 869.04 MHz-893. 97 MHz. The squelch of the receiver was then set to a minimum threshold level, and scanning begun 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, which 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, and 848.97 MHz for the mobile band, and 869.04, 881.50, and 893.97 MHz for the base band.

The DJ-V27T unit reference level used was –81.2 dBm from the signal generator. The DJ-V27T unit was scanned on all specified operating frequency ranges, per manufacturer's specifications. Signals that were noted as responses were checked with the signal generator off. If they were still present, they were determined to be ambient signals and removed from the response list.

No signals were detected 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: 38 dB Rejection {Frequency Injected: 869.040 MHz} (Cellular Band)

Frequency In	jected: 869.040 MHz	Temperature: 74°F; Humidity: 28%			
Frequency Detected (MHz)	Level 12 dB SINAD at 869.040 MHz	Level 12 dB at Frequency Detected	Rejection Margin		
No Frequencies Detected	N/A	N/A	N/A	N/A	

Table 5-2: 38 dB Rejection {Frequency Injected: 881.500 MHz} (Cellular Band)

Frequency In	jected: 881.500 MHz	Temperature: 74°F; Humidity: 28%			
Frequency Level 12 dB Detected (MHz) SINAD at 881.500 MHz		Level 12 dB at Frequency Detected	Rejection Margin		
No Frequencies Detected	N/A	N/A	N/A	N/A	

Table 5-3: 38 dB Rejection {Frequency Injected: 893.970 MHz} (Cellular Band)

Frequency In	jected: 893.970 MHz	Temperature: 74°F; Humidity: 28%			
Frequency Detected (MHz)	Level 12 dB SINAD at 893.970 MHz	Level 12 dB at Frequency Detected	Rejection	Margin	
No Frequencies Detected	N/A	N/A	N/A	N/A	

5.2 38 dB Rejection Test Data for Mobile Band (824.040-848.970 MHz)

Table 5-4: 38 dB Rejection (Frequency Injected: 824.040 MHz) (Mobile Band)

Frequency Inj	ected: 824.040 MHz	Temperature: 74°F; Humidity: 28%			
Frequency Level 12 dB Detected (MHz) SINAD at 824.040 MHz		Level 12 dB at Frequency Detected	Rejection Margin		
No Frequencies Detected	N/A	N/A	N/A	N/A	

Table 5-5: 38 dB Rejection {Frequency Injected: 836.500 MHz} (Mobile Band)

Frequency Inj	ected: 836.500 MHz	Temperature: 74°F; Humidity: 28%			
Frequency Level 12 dB Detected (MHz) SINAD at 836.500 MHz		Level 12 dB at Rejection N		Margin	
No Frequencies Detected	N/A	N/A	N/A	N/A	

Table 5-6: 38 dB Rejection {Frequency Injected: 848.970 MHz} (Mobile Band)

Frequency Inj	ected: 848.970 MHz	Temperature: 74°F; Humidity: 28%			
Frequency Detected (MHz)	Level 12 dB SINAD at 848.970 MHz	Level 12 dB at Frequency Detected	Rejection	Margin	
No Frequencies Detected	N/A	N/A	N/A	N/A	

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-3.2 GHz	3537A01741	8/29/07
901067	Hewlett Packard	HP8903B	Audio Analyzer	2450A00135	7/21/07

Test Personnel:

Daniel W. Balgel Signature:

Typed Name: Daniel Baltzell Date: May 14, 2007

6 Conclusion

The data in this measurement report shows that the Alinco Incorporated Model DJ-V27T, FCC ID: PH3DJ-V27T, IC: 3070C-DJV27T, complies with all applicable requirements of Parts 2 and 15.121 of the FCC Rules and Industry Canada RSS-215, Issue 1.