



Engineering and Testing for EMC and Safety Compliance



Accredited under A2LA Testing Certificate # 2653.01

FCC & IC Certification Report

Model: DJ-G7T
144/430/1200 MHz Triple Band FM Transceiver

FCC ID: PH3DJ-G7T
IC: 3070C-DJG7T

Alinco Incorporated
Electronics Division
Yodoyabashi Dai Building 13F
4-4-9 Koraihashi, Chuo-ku
Osaka 541-0043 Japan

April 17, 2009

Standards Referenced for this Report	
Part 2: 2006	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
Part 15.121: 2007	Radio Frequency Devices; Scanning Receivers and Frequency Converters Used with Scanning Receivers
ANSI C63.4-2007	Standard Format Measurement/Technical Report Personal Computer and Peripherals
RSS-215; Issue 1 (Provisional)	Analogue Scanner Receivers

Frequency Range (MHz)	Output Power (W)	Frequency Tolerance	Emission Designators
136-169.995	N/A	N/A	16K0F3E
420-469.995	N/A	N/A	16K0F3E
1240-1299.995	N/A	N/A	16K0F3E
Sub-band 0.531-1299.995	N/A	N/A	16K0F3E

REPORT PREPARED BY:

Test Engineer: Daniel Baltzell
Administrative Writer: Daniel Baltzell

Rhein Tech Laboratories, Inc.

Document Number: 2009134

This report may not be reproduced, except in full, without the full written approval of Rhein Tech Laboratories, Inc. and Alinco Inc. The test results relate only to the item tested.

360 Herndon Parkway, Suite 1400
Herndon, VA 20170
Tel: 703-689-0368 Fax: 703-689-2056
<http://www.rheintech.com>

Table of Contents

1	General Information	5
1.1	Modifications	5
1.2	Related Submittal(s)/Grant(s)	5
1.3	Test Methodology	5
1.4	Test Facility	5
2	System Test Configuration	6
2.1	Justification	6
2.2	Exercising the EUT	6
2.3	Test System Details	6
2.4	Configuration of Tested System	7
3	AC Conducted Emissions - FCC Rules and Regulations Part 15 §15.107(b): Conducted Limits	8
3.1	Site and Test Description	8
3.2	Test Limits	8
3.3	Conducted Emissions Test Data	9
4	Radiated Emissions – FCC Rules and Regulations Part 15 §15.109(a): Radiated Emissions Limits; RSS-215 §7 - Receiver Spurious Emissions	10
4.1	Test Methodology for Radiated Emissions Measurements	10
4.2	Radiated Emissions Data	11
5	FCC Rules and Regulations Part 15 §15.121(b) - 38 dB Rejection Test	12
5.1	38 dB Rejection Test Data for Base Band (869.04-893.970 MHz)	13
5.2	38 dB Rejection Test Data for Mobile Band (824.04-848.970 MHz)	13
6	Conclusion	14

Table Index

Table 2-1:	Equipment Under Test (EUT).....	6
Table 3-1:	Conducted Emissions Test Data – Mode RX, Neutral (EDC-173 Charger).....	9
Table 3-2:	Conducted Emissions Test Data – Mode RX, Phase (EDC-173 Charger).....	9
Table 3-3:	Equipment Used for Testing.....	9
Table 4-1:	Radiated Emissions – Mode RX.....	11
Table 4-2:	Equipment Used for Testing.....	11
Table 5-1:	38 dB Rejection {Frequency Injected: 869.04 MHz} (Cellular Band).....	13
Table 5-2:	38 dB Rejection {Frequency Injected: 881.500 MHz} (Cellular Band).....	13
Table 5-3:	38 dB Rejection {Frequency Injected: 893.970 MHz} (Cellular Band).....	13
Table 5-4:	38 dB Rejection {Frequency Injected: 824. 04 MHz} (Mobile Band).....	13
Table 5-5:	38 dB Rejection {Frequency Injected: 836.500 MHz} (Mobile Band).....	13
Table 5-6:	38 dB Rejection {Frequency Injected: 848.970 MHz} (Mobile Band).....	13
Table 5-7:	Equipment Used for Testing.....	14

Appendix Index

Appendix A:	Agency Authorization Letter.....	15
Appendix B:	FCC Confidentiality Request Letter.....	16
Appendix C:	FCC Attestation Letter.....	17
Appendix D:	RSS-215 Attestation Letter.....	18
Appendix E:	IC Agent Authority, IC Listing Requirements, IC Confidentiality Request and Canadian Rep Attestation Letters.....	19
Appendix F:	Label & Location.....	20
Appendix G:	Product Description.....	21
Appendix H:	Block Diagram.....	22
Appendix I:	Schematics.....	23
Appendix J:	Manual.....	24
Appendix K:	Test Configuration Photographs.....	25
Appendix L:	External Photographs.....	30
Appendix M:	Internal Photographs.....	43

Photograph Index

Photograph 1:	ID and Warning Labels and Locations	20
Photograph 2:	Radiated Emissions Test Configuration (Front View).....	25
Photograph 3:	Radiated Emissions Test Configuration (Rear View)	26
Photograph 4:	38 dB Rejection Test Configuration	27
Photograph 5:	Conducted AC Emissions Test Configuration (Front View).....	28
Photograph 6:	Conducted AC Emissions Test Configuration (Rear View)	29
Photograph 7:	Front View	30
Photograph 8:	Back View	31
Photograph 9:	Right Side View.....	32
Photograph 10:	Left Side View	33
Photograph 11:	Top View	34
Photograph 12:	Bottom View.....	35
Photograph 13:	Antenna.....	36
Photograph 14:	EBP-73 Li-Ion Battery	37
Photograph 15:	EDH-35 Dry Cell Case	38
Photograph 16:	EDC-173 Battery Charger	39
Photograph 17:	EDC-170 AC Adapter.....	40
Photograph 18:	Dongle for Microphone/Earphone	41
Photograph 19:	Earphone/Microphone.....	42
Photograph 20:	Inside Front Cover	43
Photograph 21:	Inside Back Chassis.....	44
Photograph 22:	PCB Mounted In Chassis	45
Photograph 23:	Front of PCB with LCD.....	46
Photograph 24:	Front of PCB without LCD.....	47
Photograph 25:	Back of Front PCB	48
Photograph 26:	Front of Back PCB with Shield	49
Photograph 27:	Front of Back PCB without Shield	50
Photograph 28:	Back of Back PCB with Shield	51
Photograph 29:	Back of Back PCB without Shield	52
Photograph 30:	Front of Audio PCB	53
Photograph 31:	Back of Audio PCB	54

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-G7T, FCC ID: PH3DJ-G7T, IC: 3070C-DJG7T. 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, 2007. 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 C63.4-2007. 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 C63.4-2007).

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-G7T is a VHF FM transceiver designed to function at the following frequency range:
 TX: 136-169.995; 420-469.995; and 1240-1299.995 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: 136, 152.99, 1169.996, 420, 444.99, 469.996, 1240, 1269.99, and 1299.995 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.

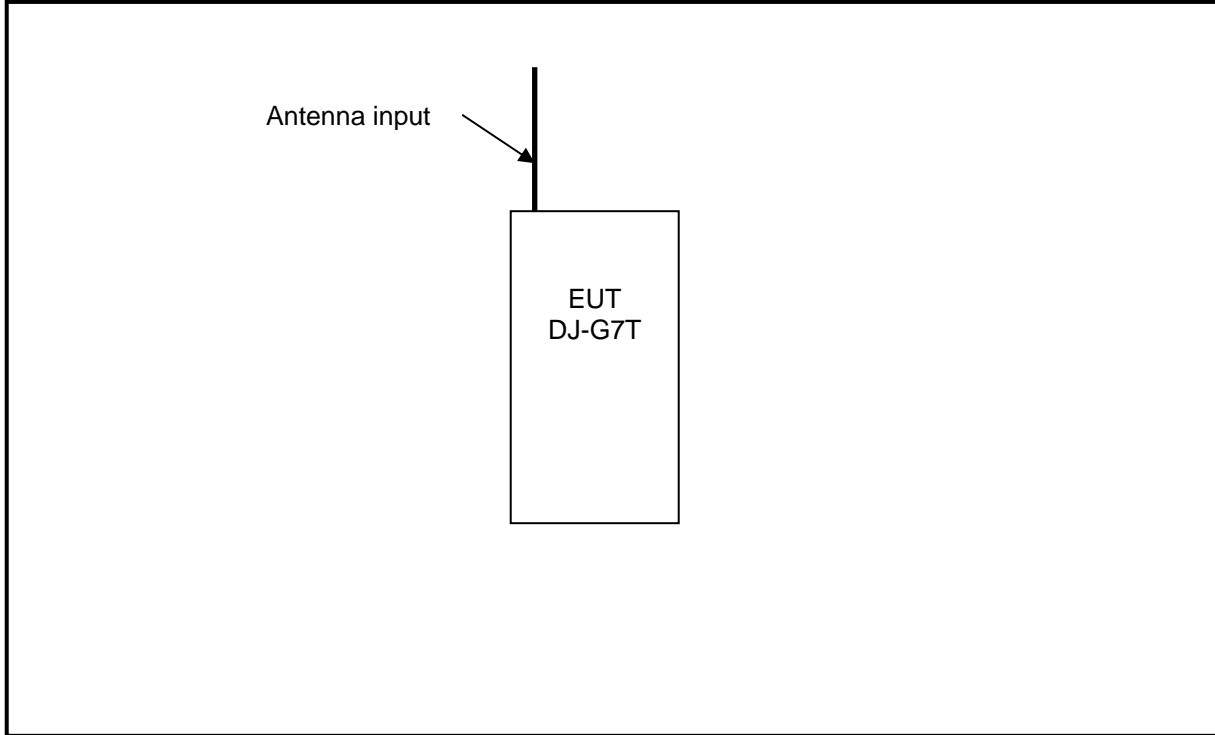
2.3 Test System Details

The test sample was received on April 15, 2009. The FCC Identifiers for all equipment, plus descriptions of all cables used in the tested system, are shown in the table that follows.

Table 2-1: Equipment Under Test (EUT)

Part	Manufacturer	Model	Serial Number	FCC ID	Cable	RTL Bar Code
FCC VHF FM Transceiver	Alinco	DJ-G7T	M000401	PH3DJ-G7T	N/A	18921
Dry Cell Case	Alinco	EBP-35	M000501	N/A	N/A	18873
7.4V 1200mAh Li-Ion Battery	Alinco	EBP-73	000343	N/A	N/A	18893
7.4V 1200mAh Li-Ion Battery	Alinco	EBP-73	000946	N/A	N/A	18894
7.4V 1200mAh Li-Ion Battery	Alinco	EBP-73	000966	N/A	N/A	18879
Battery Charger	Alinco	EDC-173	N/A	N/A	N/A	18896
EDC-173 AC Adapter FCC Testing	Alinco	EDC-170 YSU15120	N/A	N/A	1.7m unshielded power	18895
Antenna	Alinco	EA-0163	N/A	N/A	N/A	18880
Earphone/Microphone and dongle	Alinco	EME-34A	N/A	N/A	1.8m unshielded I/O	18881

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. A 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)	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)	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 (EDC-173 Charger)

Temperature: 76.7°F Humidity: 27%									
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
0.210	Pk	49.5	0.2	49.7	63.2	-13.5	53.2	-3.5	Pass
0.285	Pk	41.4	0.2	41.6	60.7	-19.1	50.7	-9.1	Pass
0.351	Pk	36.2	0.2	36.4	58.9	-22.5	48.9	-12.5	Pass
0.422	Pk	34.5	0.3	34.8	57.4	-22.6	47.4	-12.6	Pass
0.494	Pk	29.1	0.2	29.3	56.1	-26.8	46.1	-16.8	Pass
0.635	Pk	32.0	0.2	32.2	56.0	-23.8	46.0	-13.8	Pass
1.063	Pk	32.2	0.4	32.6	56.0	-23.4	46.0	-13.4	Pass
10.610	Pk	41.3	1.7	43.0	60.0	-17.0	50.0	-7.0	Pass

Table 3-2: Conducted Emissions Test Data – Mode RX, Phase (EDC-173 Charger)

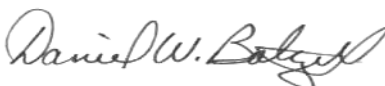
Temperature: 76.7°F Humidity: 27%									
Emission Frequency (MHz)	Test Detector	Analyzer Reading (dBuV)	Site Correction Factor (dB)	Emission Level (dBuV)	FCC B QP Limit (dBuV)	FCC B QP Margin (dBuV)	FCC B AV Limit (dBuV)	FCC B AV Margin (dBuV)	Pass/Fail
0.210	Pk	49.1	0.2	49.3	63.2	-13.9	53.2	-3.9	Pass
0.280	Pk	41.6	0.2	41.8	60.8	-19.0	50.8	-9.0	Pass
0.352	Pk	27.6	0.2	27.8	58.9	-31.1	48.9	-21.1	Pass
0.423	Pk	34.7	0.3	35.0	57.4	-22.4	47.4	-12.4	Pass
0.493	Pk	26.3	0.2	26.5	56.1	-29.6	46.1	-19.6	Pass
0.564	Pk	32.7	0.2	32.9	56.0	-23.1	46.0	-13.1	Pass
0.635	Pk	32.9	0.2	33.1	56.0	-22.9	46.0	-12.9	Pass
1.063	Pk	30.5	0.4	30.9	56.0	-25.1	46.0	-15.1	Pass
1.914	Pk	31.5	0.7	32.2	56.0	-23.8	46.0	-13.8	Pass
10.960	Pk	36.0	1.7	37.7	60.0	-22.3	50.0	-12.3	Pass

Table 3-3: Equipment Used for Testing

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Date
900913	Hewlett Packard	85462A	EMI Receiver RF Section (9 KHz – 6.5 GHz)	3325A00159	4/15/09
901082	AFJ International	LS16	16A LISN	16010020081	2/23/10

Test Personnel:

Daniel W. Baltzell
 Test Engineer



Signature

April 18, 2009
 Date Of Test

4 Radiated Emissions – FCC Rules and Regulations Part 15 §15.109(a): Radiated Emissions Limits; RSS-215 §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 by the manufacturer or calibration lab. 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 Emissions Data

Table 4-1: Radiated Emissions – Mode RX

Temperature: 78°F Humidity: 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)
84.346	Qp	V	0	1.0	29.7	-17.5	12.2	40.0	-27.8
101.336	Qp	V	0	1.0	33.4	-14.0	19.4	43.5	-24.1
118.341	Qp	V	0	1.0	36.8	-13.0	23.8	43.5	-19.7
202.672	Qp	V	0	1.0	34.4	-13.7	20.7	43.5	-22.8
236.682	Qp	V	0	1.0	33.2	-13.8	19.4	46.0	-26.6
368.346	Qp	V	180	1.3	47.2	-8.7	38.5	46.0	-7.5
393.336	Qp	V	180	1.1	52.4	-7.7	44.7	46.0	-1.3
418.341	Qp	V	180	1.0	49.2	-6.7	42.5	46.0	-3.5
1188.346	Av	V	0	1.3	45.3	0.0	45.3	54.0	-8.7
1218.336	Av	V	0	1.4	47.1	0.3	47.4	54.0	-6.6
1248.341	Av	V	0	1.4	49.9	0.1	50.0	54.0	-4.0
1573.343	Av	V	0	1.5	38.4	9.0	47.4	54.0	-6.6

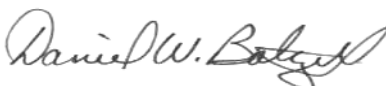
Notes: A low, middle, and high channel were checked for each receive band
 Limit/Distance: FCC B/3M

Table 4-2: Equipment Used for Testing

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Date
900905	Rhein Tech Laboratories	PR-1036	OATS 1 Preamp 40 dB (30 MHz – 2 GHz)	1006	6/2/09
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz - 22 GHz)	3138A07771	5/22/08
900791	Chase	CBL6111B	Bilog Antenna (30 MHz – 2000 MHz)	N/A	12/12/10

Test Personnel:

Daniel W. Baltzell
 Test Engineer



Signature

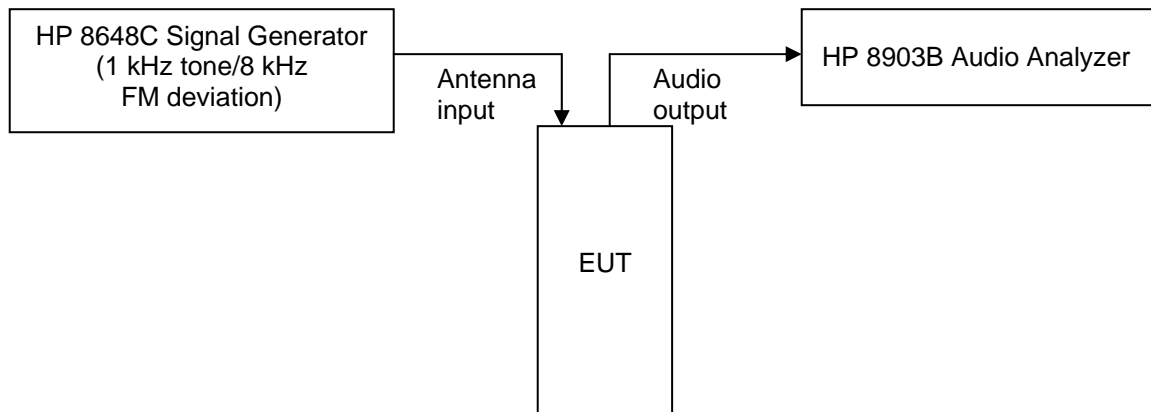
April 18, 2009
 Date Of Test

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 136 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-G7T unit reference level used was -79 dBm from the signal generator. The DJ-G7T 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 (869.04-893.970 MHz)

Table 5-1: 38 dB Rejection {Frequency Injected: 869.04 MHz} (Cellular Band)

Frequency Injected: 869.04 MHz		Temperature: 74°F; Humidity: 38%		
Frequency Detected (MHz)	Level 12 dB SINAD at 869.04 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 Injected: 881.500 MHz		Temperature: 74°F; Humidity: 38%		
Frequency Detected (MHz)	Level 12 dB 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 Injected: 893.970 MHz		Temperature: 74°F; Humidity: 38%		
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 (824.04-848.970 MHz)

Table 5-4: 38 dB Rejection {Frequency Injected: 824.04 MHz} (Mobile Band)

Frequency Injected: 824.04 MHz		Temperature: 74°F; Humidity: 38%		
Frequency Detected (MHz)	Level 12 dB SINAD at 824.0136 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 Injected: 836.500 MHz		Temperature: 74°F; Humidity: 38%		
Frequency Detected (MHz)	Level 12 dB SINAD at 836.500 MHz	Level 12 dB at Frequency Detected	Rejection	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 Injected: 848.970 MHz		Temperature: 74°F; Humidity: 38%		
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	9/10/09
901067	Hewlett Packard	HP8903B	Audio Analyzer	2450A00135	11/11/09

Test Personnel:

Daniel W. Baltzell Test Engineer	 Signature	April 17, 2009 Date Of Test
-------------------------------------	--	--------------------------------

6 Conclusion

The data in this measurement report shows that the Alinco Incorporated Model DJ-G7T, FCC ID: PH3DJ-G7T, IC: 3070C-DJG7T, complies with all applicable requirements of Parts 2 and 15.121 of the FCC Rules and Industry Canada RSS-215, Issue 1.