

Applicant:	Daniels Electronics Ltd. 43 Erie St Victoria, BC, V8V 1P8
Equipment Under Test:	VT-3/140-SN & VT-3/160-SN VHF Transmitters 132-174 MHz
FCC ID:	H4JVT-3-150-SN
In Accordance With:	47 CFR Parts 22, 80 & 90
Tested By:	Daniels Electronics Ltd. 43 Erie St Victoria, BC, V8V 1P8
Authorized By:	Vale Reibra
	Dale Reitsma, D&D Manager
Testing Verified By:	Michael J. Cyr, Communication System Designer
Date:	13 September 2005

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Total Number of Pages:

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1. Summary of Test Data

Name of Test	Para No.	Result
Occupied Bandwidth	2.1049	Complies

Notes:

- 1) This application is for approval of the VT-3/150-SN VHF Narrow Band Transmitter Family operating in the 132-174 MHz frequency band of the Land Mobile Services Band. This family includes two models, VT-3/140-SN & VT-3/160-SN, and was previously approved by the FCC for emission designators 11K0F3E and 16K0F3E under FCC ID H4JVT-3-150-SN. This application is being made specifically to add emission designator 9K2F1D. As such, only relevant test data has been provided in this report.
- 2) The emission designator was calculated as follows:

Emission Designator (4-LEVEL DATA):

$$B_n = 2M + 2DK = 2 \times (1/2) \times (3200 \text{ baud}) + 2 \times (2500 \text{Hz}) \times (1.2) = 9K2$$

General

All measurements are traceable to national standards.

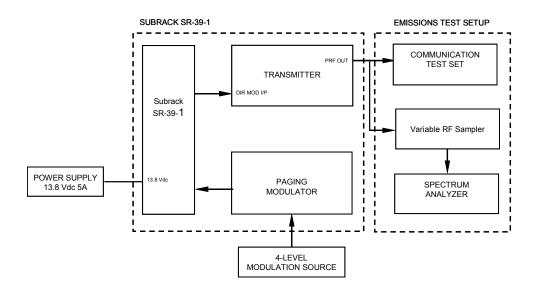
These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 22, 80, & 90.

Test Conditions:

Indoor Temperature: 23°C

Humidity: 30%

Test Arrangement Diagram:



2. General Equipment Specifications

Manufacturer: Daniels Electronics Ltd.

Family Number: VT-3/150-SN

Model Number: VT-3/140-SN (132-150 MHz)

VT-3/160-SN (150 – 174 MHz)

Serial Numbers of EUTs: D&D #10160

Starting Date of Testing: 30 August, 2005

Primary Power: 13.8Vdc

Modulation: 4-LEVEL DATA @ 6400bps (3200 Baud).

Emission Designator: 9K2F1D

Power Output: 8.0W

Channel Spacing: 12.5 KHz

Frequency Range: 132 – 174 MHz

3. Occupied Bandwidth (47 CFR §2.1049)

Test Results: Complies

Minimum Standard: Mask D

Test Data: See following graph:



FCC Mask D 9K2F1D 8W, 12.5 KHz Channel Spacing

4. Test Equipment List

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CYCLI	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL	NEXT CAL
N/A	Paging Modulator	Daniels Electronics Ltd	CI-PM-3	D&D 10150	N/A	N/A
2 Year	Radio Test Set	IFR	2948	294504/340	21-Nov-03	21-Nov-05
1 Year	Spectrum Analyzer	ADVANTEST	R3132	121000134	30-Mar-05	30-Mar-06
N/A	Variable RF Sampler	Bird	4275-020	DE 2803	N/A	N/A
N/A	4-Level Modulation Source	Daniels Electronics Ltd	Paging Test Code	N/A	N/A	N/A