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Data Package
on

Digital Transmitter
Model Number: VMD-TX-C

Customer Name: DTC Communications

Customer P.O.: D000001081

Date of Revision: January 11, 2010

Data Package Number: R-5263N, Rev. A

Test Start Date: December 16, 2009

Test Finish Date: December 17, 2009

Test Technician: Matthew Seamans

Laboratory Supervisor: Todd Hannemann

Branch Manager: Scott Wentworth

Results Prepared By: Jamie Ramsey

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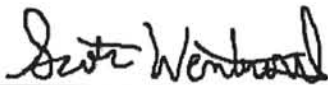
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Certification and Signatures

We certify that these Test Results are true results obtained from the tests of the equipment stated, and relates only to the equipment tested. We further certify that the measurements shown in this Test Results package were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.



Todd Hannemann
Laboratory Supervisor
NARTE Certified ATL-0255-T



Scott Wentworth
Branch Manager
NVLAP Approved Signatory

Non-Warranty Provision

The testing services have been performed, findings obtained and reports prepared in accordance with generally accepted laboratory principles and practices. This warranty is in lieu of all others, either expressed or implied.

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This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation, endorsement or certification of the product or material tested. This test report may not be used by the client to claim product endorsement by NVLAP, NIST or any agency of the U.S. Government.



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Revision History

Revisions to this document are listed below; the latest revised document supersedes all previous issues of this document.

Revision	Date	Pages Affected
-	December 18, 2009	Original Release
A	January 11, 2010	Global Changes: <ul style="list-style-type: none">• Entire document R-5263N to R-5263N, Rev. A• Cover, 5 & 19-21:• Updating Model Number for band of transmitter operation



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Data Package No. R-5263N, Rev. A

Test Program Summary

Data Package Number: R-5263N, Rev. A
Customer: DTC Communications, Inc.
Address: 486 Amherst Street
Nashua, NH 03063
Test Sample: Digital Transmitter
Part Number: N/A
Model Number: VMD-TX-C
Serial Number: TT001004
Manufacturer: DTC Communications, Inc.

Test Specification:

FCC Part 2.1053/TIA-603-C, Land Mobile FM or PM-Communications Equipment-Measurement and Performance Standards

Mode of Operation:

During the performance of all testing specified herein, the EUT was transmitting a signal into a 50 ohm load.

Test Method:

The following table depicts the test method that was performed on the EUT and the corresponding test results:

Testing Date(s)	Test Method	Test Results
12/16/09 to 12/17/09	Spurious Radiated Emission (ERP), 30 MHz to 40 GHz	Complied

No modifications were made to the EUT during the course of this testing program in order to demonstrate compliance with the specified requirements.



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**Spurious Radiated Emissions (ERP) Report of Measurements
Equipment List, Test Photographs and Test Data**



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Equipment List

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
3116	Pre-Amplifier	Miteq	0.1 GHz - 18 GHz	AFS42-35	1/21/2009	1/21/2010
3117	Power Supply	B&K Precision	0-30 Vdc, 3.0 A	1630	1/31/2009	1/31/2010
3429A	Horn Antenna	Microlab/FXR	26.5 GHz - 40 GHz	U638AF	1/21/2009	1/21/2010
3430	Horn Antenna	MCS Corporation	18 GHz - 26.5 GHz	K-5039	1/12/2009	1/12/2010
4003A	Double Ridge Guide	EMCO	1 - 18 GHz	3105	8/5/2009	8/5/2010
4202	Biconilog	EMCO	26 MHz - 2.7 GHz	3142	8/19/2009	8/19/2010
4984A	High Gain Horn	Microlab/FXR	1.0 - 1.7 GHz	L638A	1/21/2009	1/21/2010
4984B	High Gain Horn	Microlab/FXR	1.7 - 2.6 GHz	R638A	1/21/2009	1/21/2010
4984C	High Gain Horn	Microlab/FXR	2.6 - 3.95 GHz	S638A	1/21/2009	1/21/2010
4984D	High Gain Horn	Microlab/FXR	3.95 - 5.85 GHz	H638A	1/21/2009	1/21/2010
4984E	High Gain Horn	Microlab/FXR	5.8 - 8.2 GHz	C638A	1/21/2009	1/21/2010
4984F	High Gain Horn	Microlab/FXR	8.2 - 12.4 GHz	X638A	1/21/2009	1/21/2010
4984G	High Gain Horn	Microlab/FXR	12.4 GHz - 18 GHz	Y638A	1/21/2009	1/21/2010
5053	Biconilog	EMCO	26 MHz - 3 GHz	3142C	1/27/2009	1/27/2010
5070	EMI Test Receiver	Rohde & Schwarz	20 Hz - 40 GHz	ESIB40	1/14/2009	1/14/2010
5072	Preamplifier	Miteq	18 GHz-40 GHz	JS4-18004000-30	10/1/2009	10/1/2010
5107	Signal Generator	Agilent	100 kHz - 20 GHz	N5183A	3/6/2009	3/6/2010



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**Test Photograph(s)
Spurious Radiated Emissions (ERP)**



Low Frequency



High Frequency



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**Test Photograph(s)
Spurious Radiated Emissions (ERP)**



Horizontal Antenna Polarization, 30 to 1000 MHz



Vertical Antenna Polarization, 30 to 1000 MHz



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**Test Photograph(s)
Spurious Radiated Emissions (ERP)**



Horizontal Antenna Polarization, 1 to 1.7 GHz



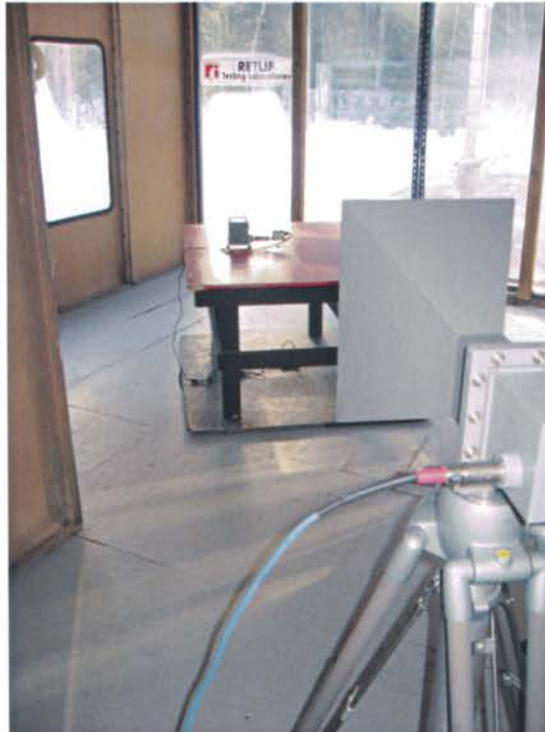
Vertical Antenna Polarization, 1 to 1.7 GHz



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**Test Photograph(s)
Spurious Radiated Emissions (ERP)**



Horizontal Antenna Polarization, 1.7 to 2.6 GHz



Vertical Antenna Polarization, 1.7 to 2.6 GHz



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Data Package No. R-5263N, Rev. A

**Test Photograph(s)
Spurious Radiated Emissions (ERP)**



Horizontal Antenna Polarization, 2.6 to 3.95 GHz



Vertical Antenna Polarization, 2.6 to 3.95 GHz



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Data Package No. R-5263N, Rev. A

**Test Photograph(s)
Spurious Radiated Emissions (ERP)**



Horizontal Antenna Polarization, 3.95 to 5.8 GHz



Vertical Antenna Polarization, 3.95 to 5.8GHz



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Data Package No. R-5263N, Rev. A

**Test Photograph(s)
Spurious Radiated Emissions (ERP)**



Horizontal Antenna Polarization, 5.8 to 8.2 GHz



Vertical Antenna Polarization, 5.8 to 8.2 GHz



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Data Package No. R-5263N, Rev. A

**Test Photograph(s)
Spurious Radiated Emissions (ERP)**



Horizontal Antenna Polarization, 8.2 to 12.4 GHz



Vertical Antenna Polarization, 8.2 to 12.4 GHz



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Data Package No. R-5263N, Rev. A

**Test Photograph(s)
Spurious Radiated Emissions (ERP)**



Horizontal Antenna Polarization, 12.4 to 18 GHz



Vertical Antenna Polarization, 12.4 to 18 GHz



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Data Package No. R-5263N, Rev. A

**Test Photograph(s)
Spurious Radiated Emissions (ERP)**



Horizontal Antenna Polarization, 18 to 26 GHz



Vertical Antenna Polarization, 18 to 26 GHz



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Data Package No. R-5263N, Rev. A

**Test Photograph(s)
Spurious Radiated Emissions (ERP)**



Horizontal Antenna Polarization, 26 to 40 GHz



Vertical Antenna Polarization, 26 to 40 GHz



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