



1250 Peterson Dr., Wheeling, IL 60090

Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

FCC Rules and Regulations / Intentional Radiators

Operational in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz, Bands

Part 15, Subpart C, Section 15.247

THE FOLLOWING MEETS THE ABOVE TEST SPECIFICATION

Formal Name: Router
Kind of Equipment: Nurse Call and Security Device
Frequency Range: 2405 MHz - 2480 MHz
Test Configuration: Wireless Connection (Tested at 120 vac, 60 Hz)
Model Number(s): 0800-0364
Model(s) Tested: 0800-0364
Serial Number(s): N/A
Date of Tests: March 27, 28 & April 2, 2008
Test Conducted For: RF Technologies, Inc.
3125 North 126th Street
Brookfield, Wisconsin 53066

NOTICE: "This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government". Please see the "Additional Description of Equipment Under Test" page listed inside of this report.

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Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

SIGNATURE PAGE

Report By:

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Reviewed By:

William Stumpf
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Approved By:

Brian Mattson
General Manager



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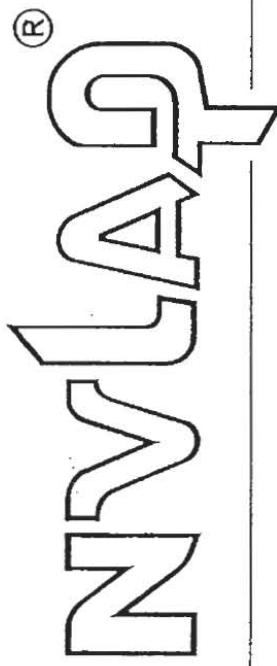
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United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 100276-0

D.L.S. Electronic Systems, Inc.
Wheeling, IL

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO/ILAC-IAF Communique dated 18 June 2005).



2007-10-01 through 2008-09-30
Effective dates

Dally S. Bruce
For the National Institute of Standards and Technology

NVLAP-01C (REV 2006-09-13)



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Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1.0 SUMMARY OF TEST REPORT

It was found that the Router, Model Number(s) 0800-0364, **meets** the radio interference conducted and radiated emission requirements of the FCC "Rules and Regulations", Part 15, Subpart C, Section 15.247 for operational in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz, Bands.

2.0 INTRODUCTION

On March 27, 28 & April 2, 2008, a series of radio frequency interference measurements was performed on Router, Model Number(s) 0800-0364, Serial Number: N/A. The tests were performed according to the procedures of the FCC as stated in the "Methods of Measurement of Radio-Noise Emissions for Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz" found in the American National Standards Institute, ANSI C63.4-2003. Tests were performed by personnel of D.L.S. Electronic Systems, Inc. who are responsible to Donald L. Sweeney, Senior EMC Engineer.

D.L.S. Electronic Systems, Inc. is a full service EMC/Safety Testing Laboratory accredited to ISO 17025. NVLAP Certificate and Scope can be viewed at <http://www.dlsemc.com/certificate>. Our facilities are registered with the FCC, Industry Canada, and VCCI.

Main Test Facility:

D.L.S. Electronic Systems, Inc.
1250 Peterson Drive
Wheeling, Illinois 60090

O.A.T.S. Test Facility:

D.L.S. Electronic Systems, Inc.
166 S. Carter Street
Genoa City, Wisconsin 53128

3.0 OBJECT

The purpose of this series of tests was to determine if the test sample could meet the radio frequency interference emission requirements of the FCC "Rules and Regulations", Part 15, Subpart C, Sections 15.205, 15.209 & 15.247 for Intentional Radiators operating in the Bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.



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4.0 TEST SET-UP

All emission tests were performed at D.L.S. Electronic Systems, Inc. and set up according to the ANSI C63.4-2003, Annex H.

All radiated emissions tests were performed with the test item placed on a 80 cm high rotating non-conductive table, located in the test room. Equipment normally operated on the floor was placed on a metal covered turntable which is flush with the surrounding conducting ground plane. The ground plane has an electrical isolation layer over its surface approximately 7 mm thick. The EUT is separated from the turntable ground plane by a non-conductive layer. The equipment under test was set up according to ANSI C63.4-2003, Sections 6 and 8.

5.0 TEST EQUIPMENT (Bandwidths and Detector Function)

All preliminary data below 1000 MHz was automatically plotted using the ESI 26/40 Fixed Tuned Receiver. The data was taken using Peak, Quasi-Peak or the Average Detector Functions as required. This information was then used to determine the frequencies of maximum emissions. Above 1000 MHz, final data was taken using the Average Detector.

Below 1000 MHz, final data was taken using the ESI 26/40 Fixed Tuned Receiver. These plots were made using the Peak or Quasi-Peak Detector functions, with manual measurements performed on the questionable frequencies using the Quasi-Peak or the Average Detector Function of the ESI 26/40 Fixed Tuned Receiver as required. Above 1000 MHz, final data was taken using the Average Detector on the Spectrum Analyzer.

The bandwidths shown below are specified by ANSI C63.4-2003, Section 4.2.

Frequency Range	Bandwidth (-6 dB)
10 to 150 kHz	200 Hz
150 kHz to 30 MHz	9 kHz
30 MHz to 1 GHz	120 kHz
Above 1 GHz	1 MHz

A list of the equipment used can be found in Table 1. All primary equipment was calibrated against known reference standards with a verified traceable path to NIST.



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6.0 AMBIENT MEASUREMENTS

For emissions measurements, broadband antennas and an EMI Test Receiver with a panoramic spectrum display are used. First the frequency range is scanned and displayed on the test receiver display. Next the scanned frequency range is divided into smaller ranges, and then it is manually tuned through to determine the emissions from the EUT. A headset or loudspeaker is connected to the test receiver's AM/FM demodulated output as an aid in detecting ambient signals and finding frequencies of significant emission from the EUT. If there is any doubt as to the source of the emission, it is further investigated by rotating the EUT, or by disconnecting the power from the EUT.

The EUT is set up in its typical configuration and operated in its various modes. For tabletop systems, cables are manipulated within the range of likely configurations. For floor-standing equipment, the cables are located in the same manner as the user would install them and no further manipulation is made. If the manner of cable installation is not known, or if it changes with each installation, cables or wires for floor-standing equipment shall be manipulated to the extent possible to produce the maximum level of emissions. For each mode of operation, the frequency spectrum is monitored. Variations in antenna height, antenna polarization, EUT azimuth, and cable or wire placement (each variable within bounds specified elsewhere) are explored to produce the emissions that have the highest amplitude relative to the limit. These methods are performed to the specifications in ANSI C63.4-2003.



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7.0 DESCRIPTION OF TEST SAMPLE: (See also Paragraph 8.0)

7.1 Description:

This test sample is a wireless transceiver device that receives signals from battery powered devices and transmits these signals to other test samples on route to a final destination. The test sample communicates with other routers to create a mesh of wireless connectivity.

7.2 PHYSICAL DIMENSIONS OF EQUIPMENT UNDER TEST

Length: 114mm x Width: 68mm x Height: 14mm

7.3 LINE FILTER USED:

N/A

7.4 INTERNAL CLOCK FREQUENCIES:

Switching Power Supply Frequencies:

N/A

Clock Frequencies:

32 MHz

7.5 DESCRIPTION OF ALL CIRCUIT BOARDS:

1. ZigBee Router PCB Assembly, Chipcon

PN: 0830-0076 Rev. A



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8.0 ADDITIONAL DESCRIPTION OF TEST SAMPLE:
(See also Paragraph 7.0)

1: There were no additional descriptions noted at the time of test.

NOTE:

Continuous Transmit, Low, Mid, and High channels. Tested with two different AC power adapters.

9.0 PHOTO INFORMATION AND TEST SET-UP

Item 0 Router
Model Number: 0800-0364 Serial Number: N/A

Item 1 AC power adapter: Intelink Electronic Model: ILD35-090200 or
GlobTek Model: GT-348-12-500R



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10.0 RADIATED PHOTOS TAKEN DURING TESTING



RADIATED FRONT



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10.0 RADIATED PHOTOS TAKEN DURING TESTING (CON'T)



RADIATED REAR



Company: RF Technologies, Inc.
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10.0 CONDUCTED PHOTOS TAKEN DURING TESTING





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11.0 RESULTS OF TESTS

The radio interference emission charts can be seen on the pages at the end of this report. Data sheets indicating the test measurements taken during testing can also be found at the end of this report.

12.0 CONCLUSION

It was found that the Router, Model Number(s) 0800-0364 **meets** the radio interference conducted and radiated emission requirements of the FCC "Rules and Regulations", Part 15, Subpart C, Section 15.247 for operational in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz, Bands.



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TABLE 1 – EQUIPMENT LIST

Test Equipment	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Due Dates
Receiver	Rohde & Schwarz	ESI 26	837491/010	20 Hz – 26 GHz	11/08
Receiver	Rohde & Schwarz	ESI 40	837808/006	20 Hz – 40 GHz	12/08
Preamp	R&S	TS-PR10	032001/005	1GHz-10GHz	1/08
Preamp	Miteq	MF-6D-010100-50A	213976	10GHz-18GHz	5/08
Preamp	Miteq	AMF-8B-180265-40-10P-H/S	438727	18GHz-26GHz	9/08
Attenuator-20dB Fixed	Aeroflex Weinschel	75A-20-12	1071	DC – 40GHz	7/08
RF Limiter	Electrometrics	EM-7600	706		1/09
Antenna	EMCO	3104C	97014785	20 MHz – 200 MHz	2/08
Antenna	EMCO	3146	97024895	200 MHz – 1 GHz	3/08
Horn Antenna	EMCO	3115	5731	1-18GHz	6/08
Horn Antenna	EMCO	3115	6204	1-18GHz	5/08
Horn Antenna	EMCO	3116	2549	18 – 40GHz	5/08
LISN	SOLAR	9252-50-R-24-BNC	961019		7/08

All primary equipment is calibrated against known reference standards with a verified traceable path to NIST.



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APPENDIX A

TEST PROCEDURE

Part 15, Subpart C, Section 15.247 (a-h)

OPERATION WITHIN THE BAND 902-928 MHz,

2400-2483.5 MHz AND 5725-5857 MHz



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APPENDIX A

1.0 AC POWER LINE CONDUCTED EMISSION MEASUREMENTS

If applicable, the conducted emissions were measured over the frequency range from 150 kHz to 30 MHz in accordance with the power line measurements as specified in the American National Standards Institute, ANSI C63.4-2003, Section 12. Since the device is operated from the public utility lines, the 115 Vac 60 Hz power leads, high and low sides, were to be measured by connecting the measuring equipment to the appropriate meter terminal of the LISN. All signals were then recorded. The allowed levels for Intentional Radiators cannot exceed the following:

Frequency of Emissions (MHz)	Conducted Limits (dBuV)	
	Quasi Peak	Average
.15 to .5	66 to 56	56 to 46
.5 to 5	56	46
5 to 30	60	50

All conducted emissions measurements were made at a test room temperature of **70°F** at **26%** relative humidity.



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APPENDIX A

AC POWER LINE DATA AND GRAPH(S)

TAKEN DURING TESTING

PART 15.207

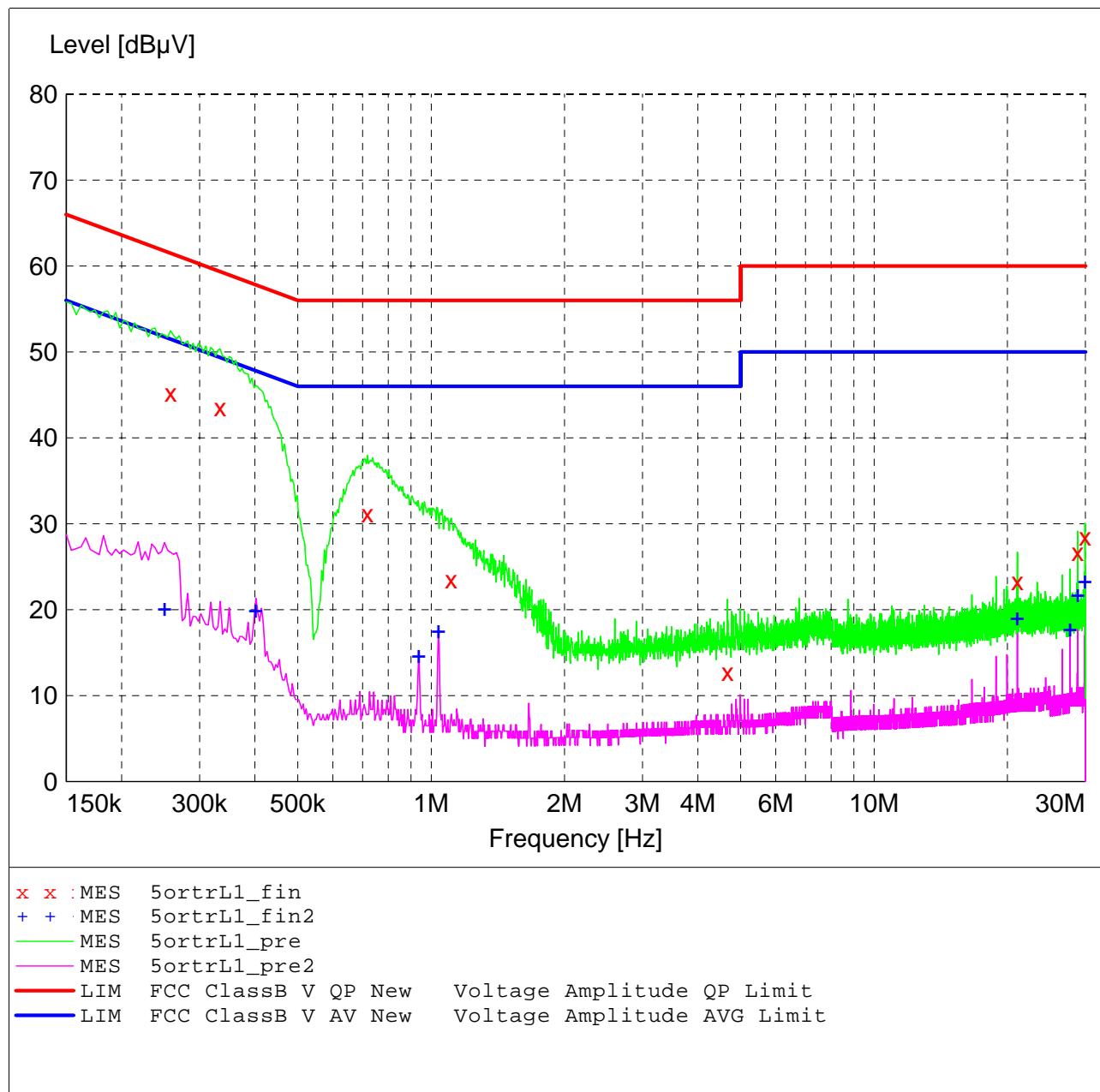
GLOBTEK SUPPLY

Voltage Mains Test

EUT: Router Model: 0800-0364 w/ GlobTek supply
 Manufacturer: RF Technologies
 Operating Condition: 70 deg. F, 26% R.H.
 Test Site: DLS O.F. Site 1 (Screenroom)
 Operator: Craig B
 Test Specification: 120 V 60 Hz
 Comment: Line 1
 Date: 03-28-2008

SCAN TABLE: "Line Cond Scrn RmFin"

Line Conducted Emissions						
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer
150.0 kHz	30.0 MHz	4.0 kHz	QuasiPeak	2.0 s	9 kHz	LISN DLS#128 CISPR AV



MEASUREMENT RESULT: "5orstrL1_fin"

4/1/2008 1:38PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.258000	45.20	10.9	62	16.3	QP	---	---
0.334000	43.50	10.7	59	15.9	QP	---	---
0.718000	31.20	10.4	56	24.8	QP	---	---
1.110000	23.50	10.5	56	32.5	QP	---	---
4.666000	12.70	11.1	56	43.3	QP	---	---
21.066000	23.30	12.9	60	36.7	QP	---	---
28.830000	26.70	13.6	60	33.3	QP	---	---
29.938000	28.50	13.6	60	31.5	QP	---	---

MEASUREMENT RESULT: "5orstrL1_fin2"

4/1/2008 1:38PM

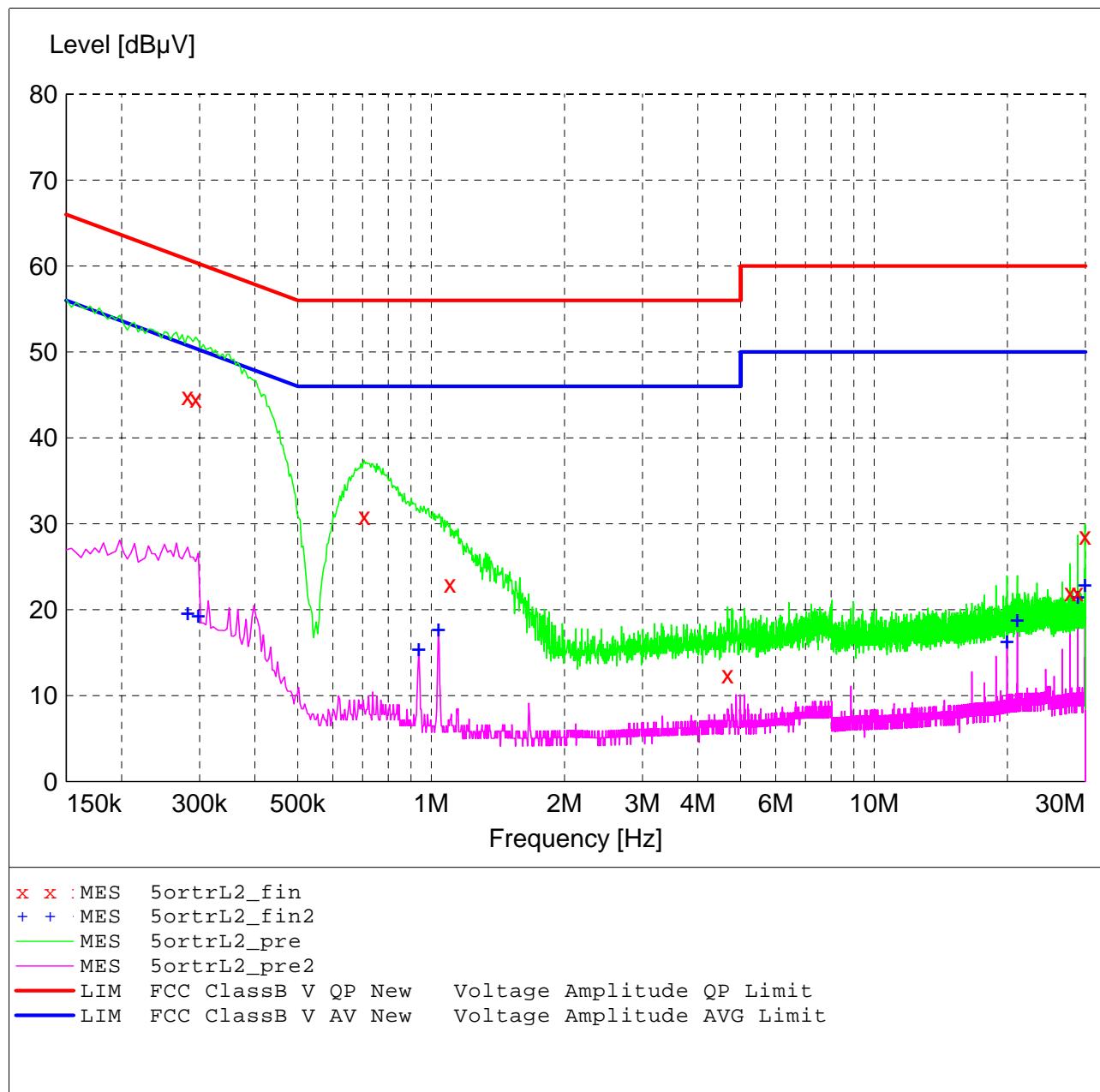
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.250000	20.20	10.9	52	31.6	CAV	---	---
0.402000	20.00	10.6	48	27.8	CAV	---	---
0.938000	14.70	10.4	46	31.3	CAV	---	---
1.038000	17.60	10.5	46	28.4	CAV	---	---
21.066000	19.10	12.9	50	30.9	CAV	---	---
27.718000	17.80	13.5	50	32.2	CAV	---	---
28.830000	21.80	13.6	50	28.2	CAV	---	---
29.938000	23.40	13.6	50	26.6	CAV	---	---

Voltage Mains Test

EUT: Router Model: 0800-0364 w/ GlobTek supply
 Manufacturer: RF Technologies
 Operating Condition: 70 deg. F, 26% R.H.
 Test Site: DLS O.F. Site 1 (Screenroom)
 Operator: Craig B
 Test Specification: 120 V 60 Hz
 Comment: Line 2
 Date: 03-28-2008

SCAN TABLE: "Line Cond Scrn RmFin"

Line Conducted Emissions						
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer
150.0 kHz	30.0 MHz	4.0 kHz	QuasiPeak	2.0 s	9 kHz	LISN DLS#128 CISPR AV



MEASUREMENT RESULT: "5ortrL2_fin"

4/1/2008 1:45PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.282000	44.80	10.8	61	16.0	QP	---	---
0.294000	44.50	10.8	60	15.9	QP	---	---
0.706000	30.90	10.4	56	25.1	QP	---	---
1.102000	23.00	10.5	56	33.0	QP	---	---
4.670000	12.40	11.1	56	43.6	QP	---	---
27.722000	22.00	13.5	60	38.0	QP	---	---
28.834000	22.00	13.6	60	38.0	QP	---	---
29.938000	28.60	13.6	60	31.4	QP	---	---

MEASUREMENT RESULT: "5ortrL2_fin2"

4/1/2008 1:45PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.282000	19.70	10.8	51	31.1	CAV	---	---
0.298000	19.40	10.8	50	30.9	CAV	---	---
0.938000	15.50	10.4	46	30.5	CAV	---	---
1.038000	17.80	10.5	46	28.2	CAV	---	---
19.958000	16.40	12.7	50	33.6	CAV	---	---
21.066000	18.90	12.9	50	31.1	CAV	---	---
28.830000	21.60	13.6	50	28.4	CAV	---	---
29.938000	23.00	13.6	50	27.0	CAV	---	---



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APPENDIX A

AC POWER LINE DATA AND GRAPH(S)

TAKEN DURING TESTING

PART 15.207

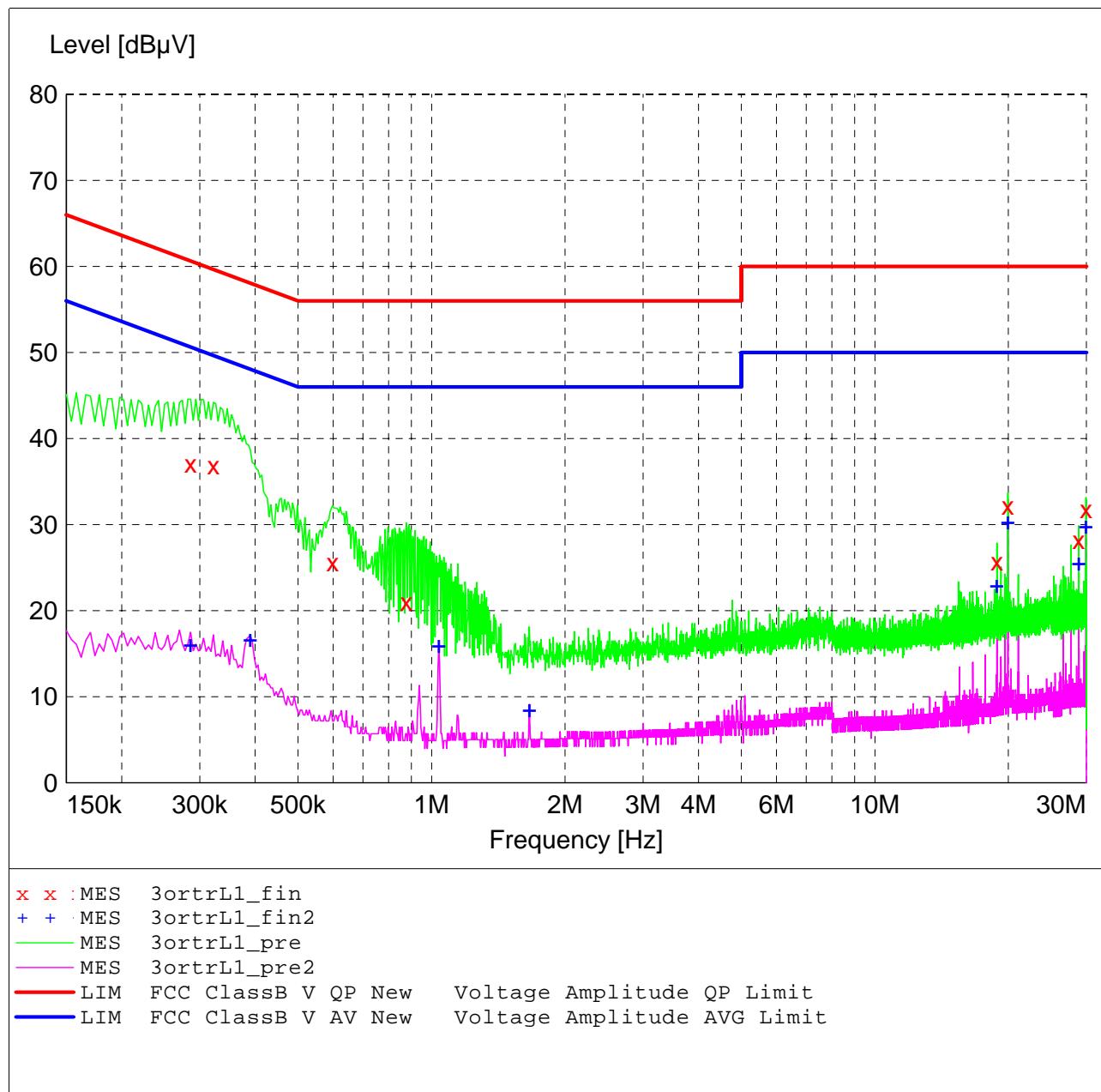
INTELINK SUPPLY

Voltage Mains Test

EUT: Router Model: 0800-0364 w/ Intelink supply
 Manufacturer: RF Technologies
 Operating Condition: 70 deg. F, 26% R.H.
 Test Site: DLS O.F. Site 1 (Screenroom)
 Operator: Craig B
 Test Specification: 120 V 60 Hz
 Comment: Line 1
 Date: 03-28-2008

SCAN TABLE: "Line Cond Scrn RmFin"

Short Description: Line Conducted Emissions
 Start Frequency: 150.0 kHz Stop Frequency: 30.0 MHz Step Width: 4.0 kHz
 Detector: QuasiPeak Meas. Time: 2.0 s IF: 9 kHz Transducer: LISN DLS#128
 CISPR AV



MEASUREMENT RESULT: "3ortrl1_fin"

3/28/2008 2:53PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.286000	37.10	10.8	61	23.5	QP	---	---
0.322000	36.90	10.7	60	22.8	QP	---	---
0.598000	25.60	10.4	56	30.4	QP	---	---
0.878000	21.00	10.5	56	35.0	QP	---	---
18.850000	25.70	12.5	60	34.3	QP	---	---
19.958000	32.20	12.7	60	27.8	QP	---	---
28.830000	28.20	13.6	60	31.8	QP	---	---
29.938000	31.80	13.6	60	28.2	QP	---	---

MEASUREMENT RESULT: "3ortrl1_fin2"

3/28/2008 2:53PM

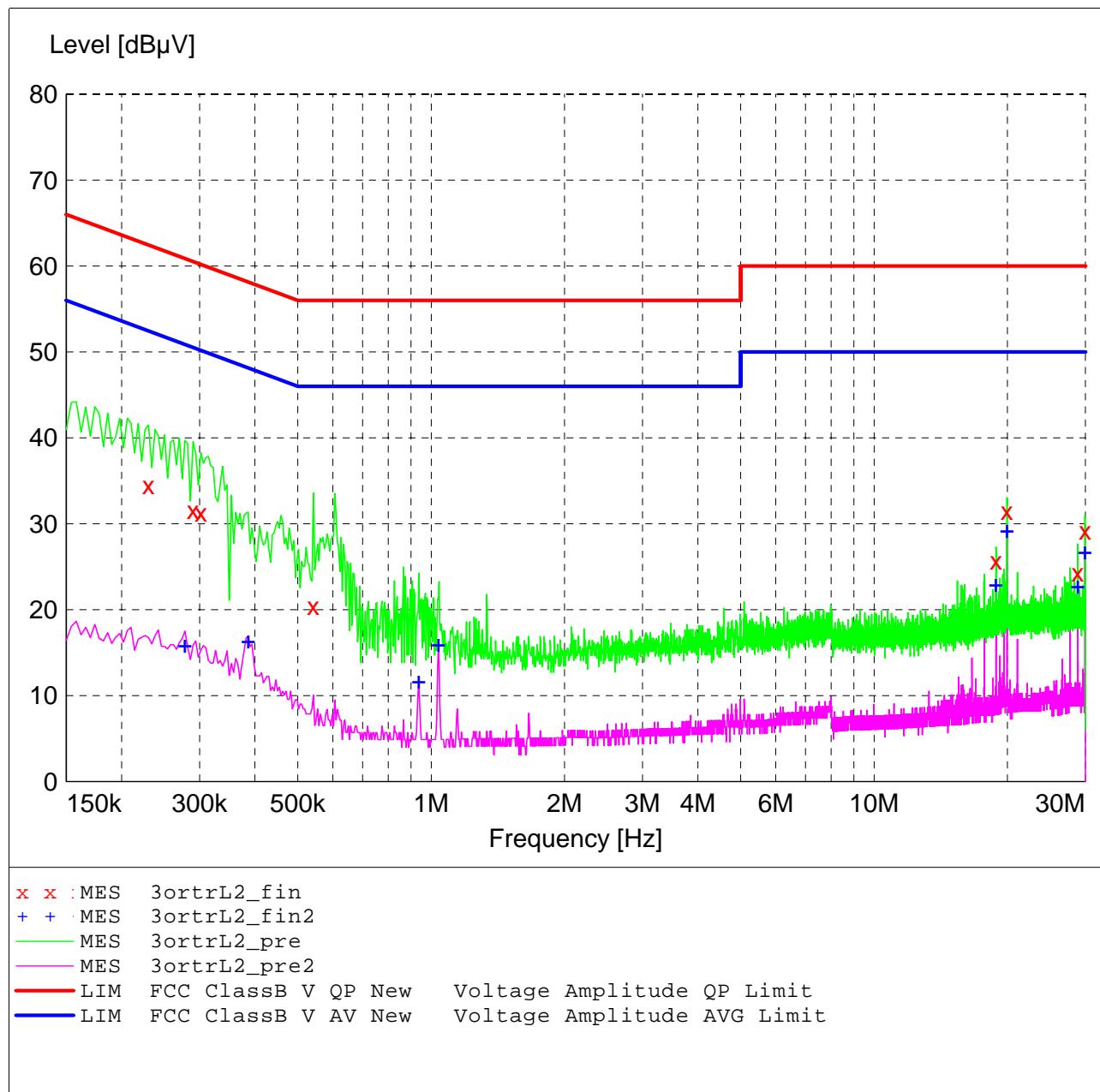
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.286000	16.10	10.8	51	34.5	CAV	---	---
0.390000	16.70	10.6	48	31.4	CAV	---	---
1.038000	16.00	10.5	46	30.0	CAV	---	---
1.662000	8.60	10.6	46	37.4	CAV	---	---
18.850000	23.00	12.5	50	27.0	CAV	---	---
19.958000	30.40	12.7	50	19.6	CAV	---	---
28.830000	25.60	13.6	50	24.4	CAV	---	---
29.938000	29.90	13.6	50	20.1	CAV	---	---

Voltage Mains Test

EUT: Router Model: 0800-0364 w/ Intelink supply
 Manufacturer: RF Technologies
 Operating Condition: 70 deg. F, 26% R.H.
 Test Site: DLS O.F. Site 1 (Screenroom)
 Operator: Craig B
 Test Specification: 120 V 60 Hz
 Comment: Line 2
 Date: 03-28-2008

SCAN TABLE: "Line Cond Scrn RmFin"

Short Description: Line Conducted Emissions
 Start Frequency: 150.0 kHz Stop Frequency: 30.0 MHz Step Width: 4.0 kHz
 Detector: QuasiPeak Meas. Time: 2.0 s IF: 9 kHz Transducer: LISN DLS#128
 CISPR AV



MEASUREMENT RESULT: "3ortrl2_fin"

3/28/2008 2:58PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.230000	34.50	11.0	62	27.9	QP	---	---
0.290000	31.60	10.8	61	28.9	QP	---	---
0.302000	31.30	10.8	60	28.9	QP	---	---
0.542000	20.40	10.5	56	35.6	QP	---	---
18.850000	25.70	12.5	60	34.3	QP	---	---
19.958000	31.50	12.7	60	28.5	QP	---	---
28.834000	24.30	13.6	60	35.7	QP	---	---
29.938000	29.20	13.6	60	30.8	QP	---	---

MEASUREMENT RESULT: "3ortrl2_fin2"

3/28/2008 2:58PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.278000	15.90	10.8	51	35.0	CAV	---	---
0.386000	16.40	10.6	48	31.7	CAV	---	---
0.938000	11.70	10.4	46	34.3	CAV	---	---
1.038000	16.00	10.5	46	30.0	CAV	---	---
18.850000	23.00	12.5	50	27.0	CAV	---	---
19.958000	29.30	12.7	50	20.7	CAV	---	---
28.830000	22.80	13.6	50	27.2	CAV	---	---
29.938000	26.80	13.6	50	23.2	CAV	---	---



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APPENDIX A

2.0 SPURIOUS EMISSIONS AT ANTENNA TERMINALS – PART 15.247(c)

Spurious conducted emissions were measured at the antenna terminals. Plots were made showing the amplitude of each harmonic emission with the equipment operated. As shown by the radiated charts there was no reason to believe that there were any spurious emissions other than the harmonics that were individually investigated when doing the conducted test at the antenna terminals. Measurements were made up to the 10th harmonic of the fundamental.

The allowed emissions for transmitters operating in the 2400 MHz - 2483.5 MHz bands for Router equipment are found under Part 15, Section 15.247(c). This paragraph states that in any 100 kHz bandwidth outside the frequency band which the spread spectrum intentional radiator is operating, the radio frequency power produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

NOTE: See the following pages for the data and graphs of the actual measurements made:



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

CONDUCTED EMISSION DATA AND GRAPH(S)

TAKEN FOR

SPURIOUS EMISSION MEASUREMENTS MADE

AT THE ANTENNA TERMINALS

PART 15.247(c)



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

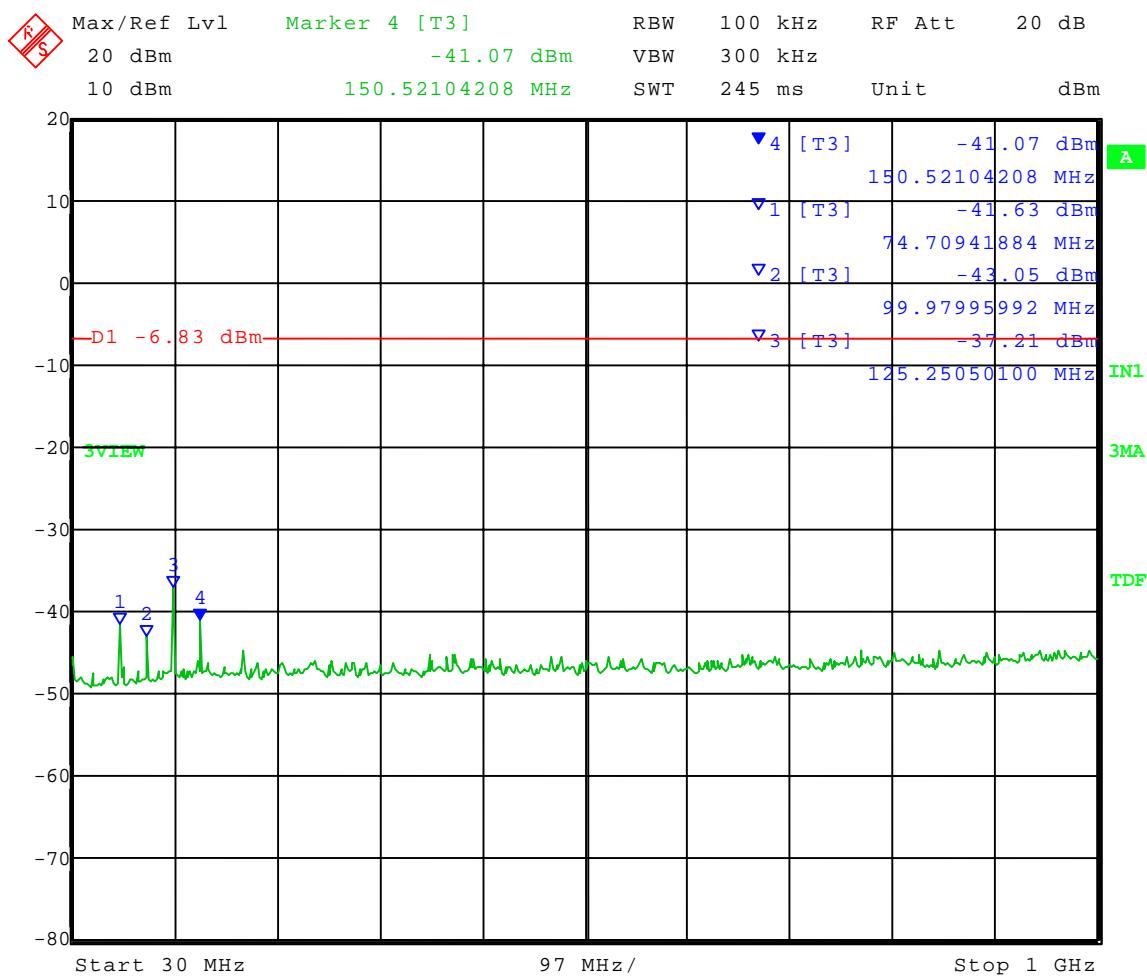
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: Low Channel Transmit = 2.405 GHz
Frequency Range: 30 to 1000 MHz
Limit = -6.83 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 28.MAR.2008 09:46:37



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

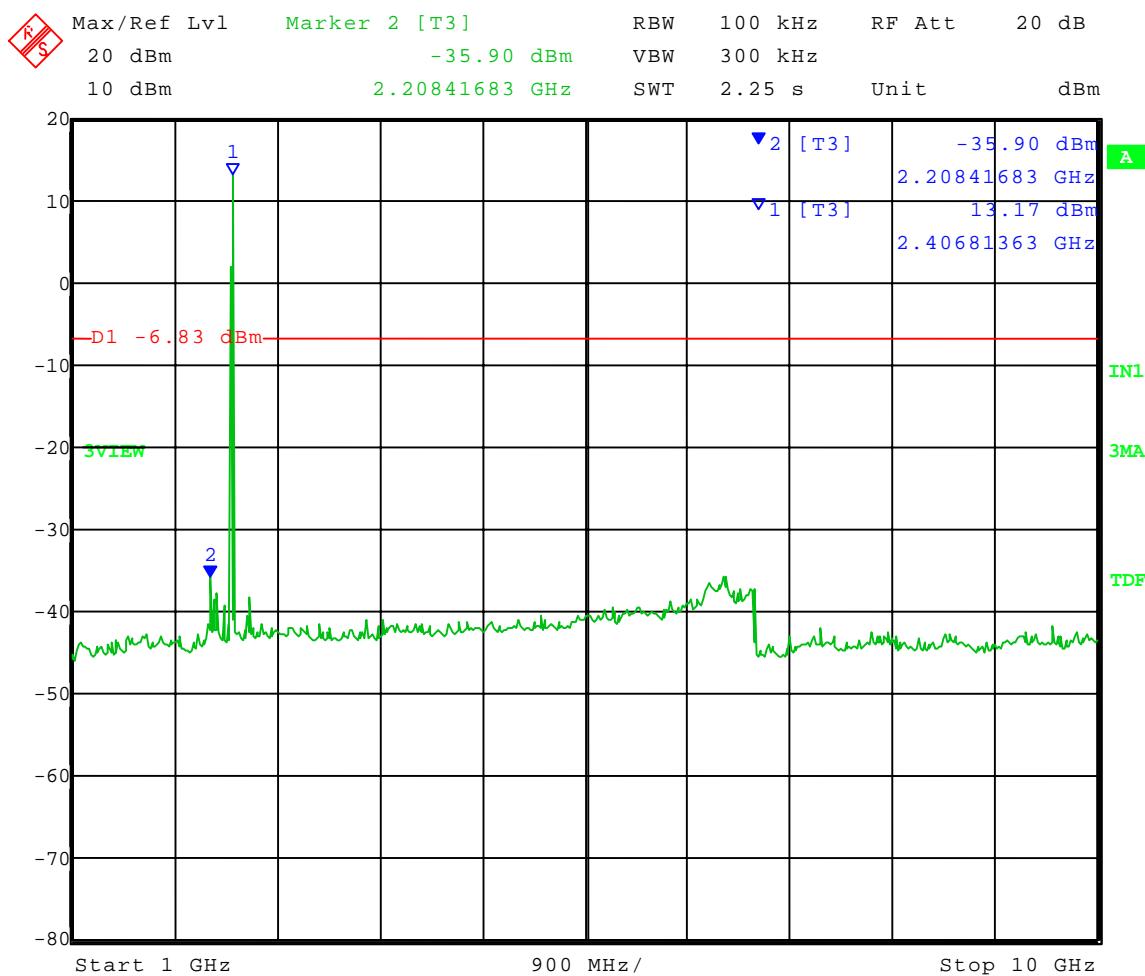
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: Low Channel Transmit = 2.405 GHz
Frequency Range: 1 to 10 GHz
Limit = -6.83 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency





Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

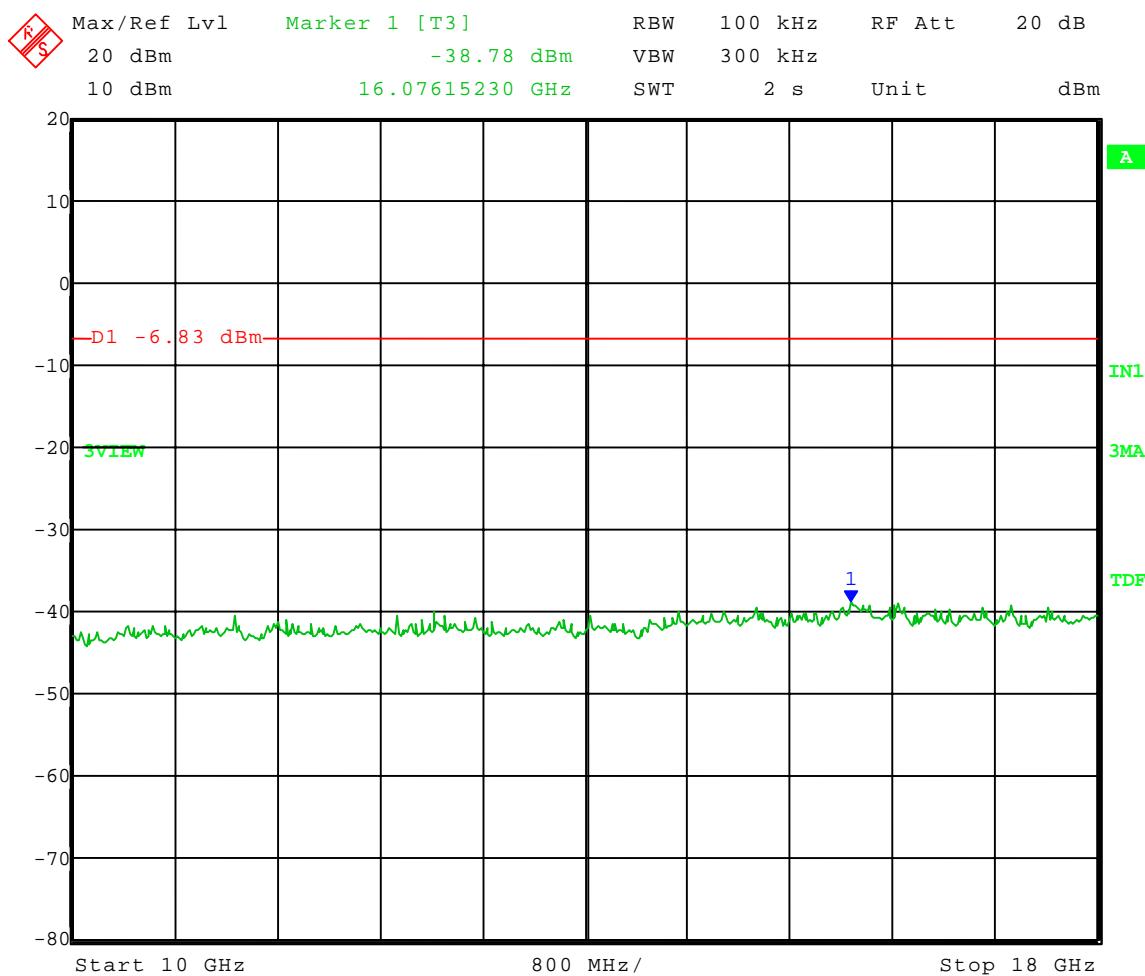
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: Low Channel Transmit = 2.405 GHz
Frequency Range: 10 to 18 GHz
Limit = -6.83 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 28.MAR.2008 09:42:57



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

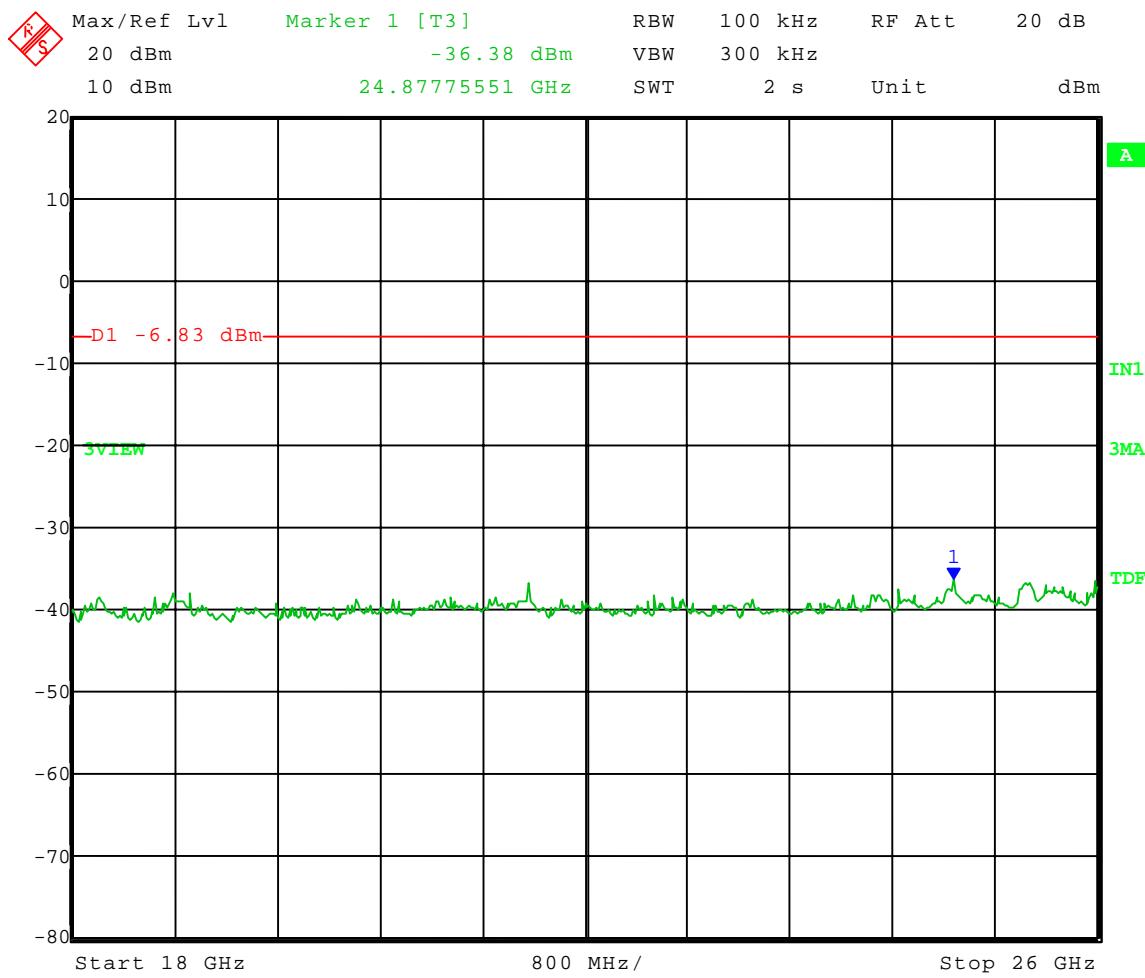
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: Low Channel Transmit = 2.405 GHz
Frequency Range: 18 to 26 GHz
Limit = -6.83 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency





Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

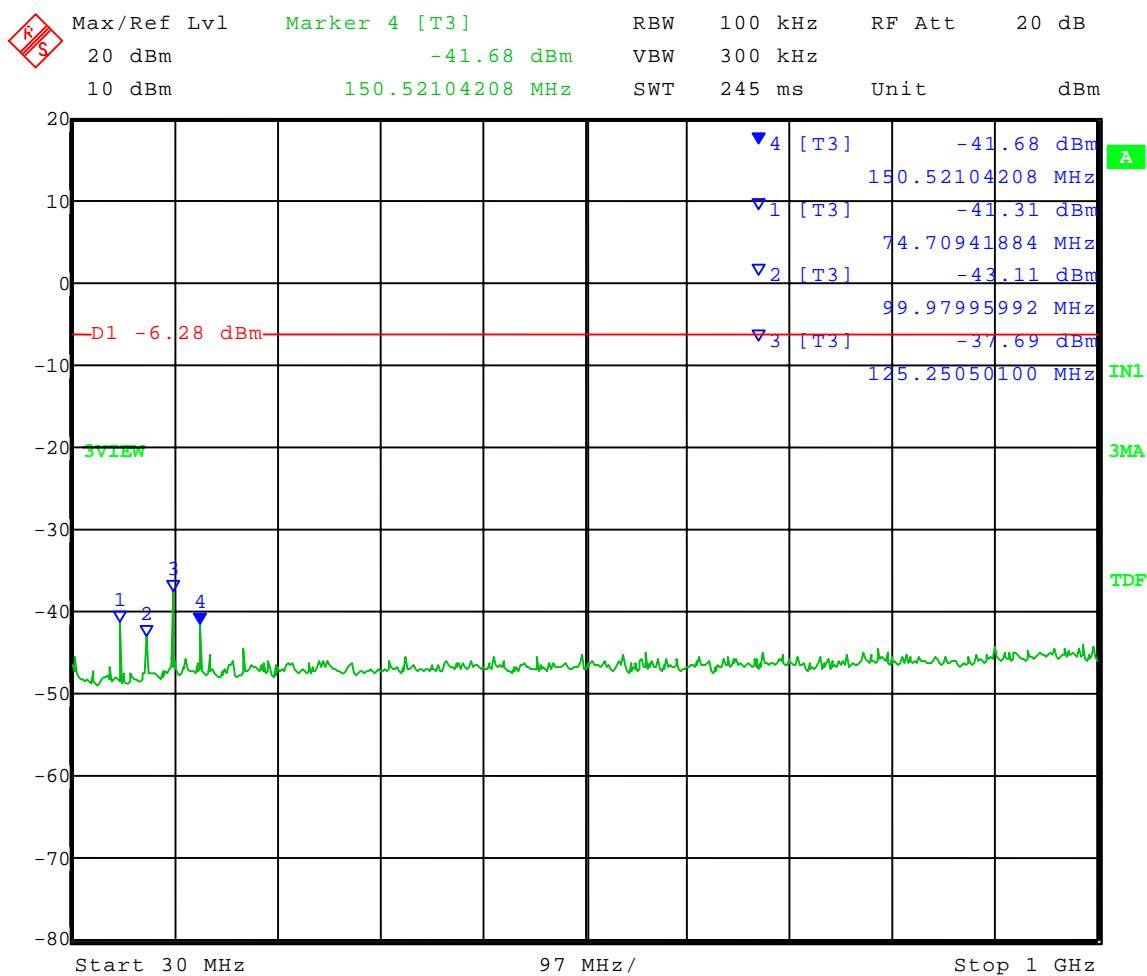
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: Middle Channel Transmit = 2.440 GHz
Frequency Range: 30 to 1000 MHz
Limit = -6.28 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency





Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

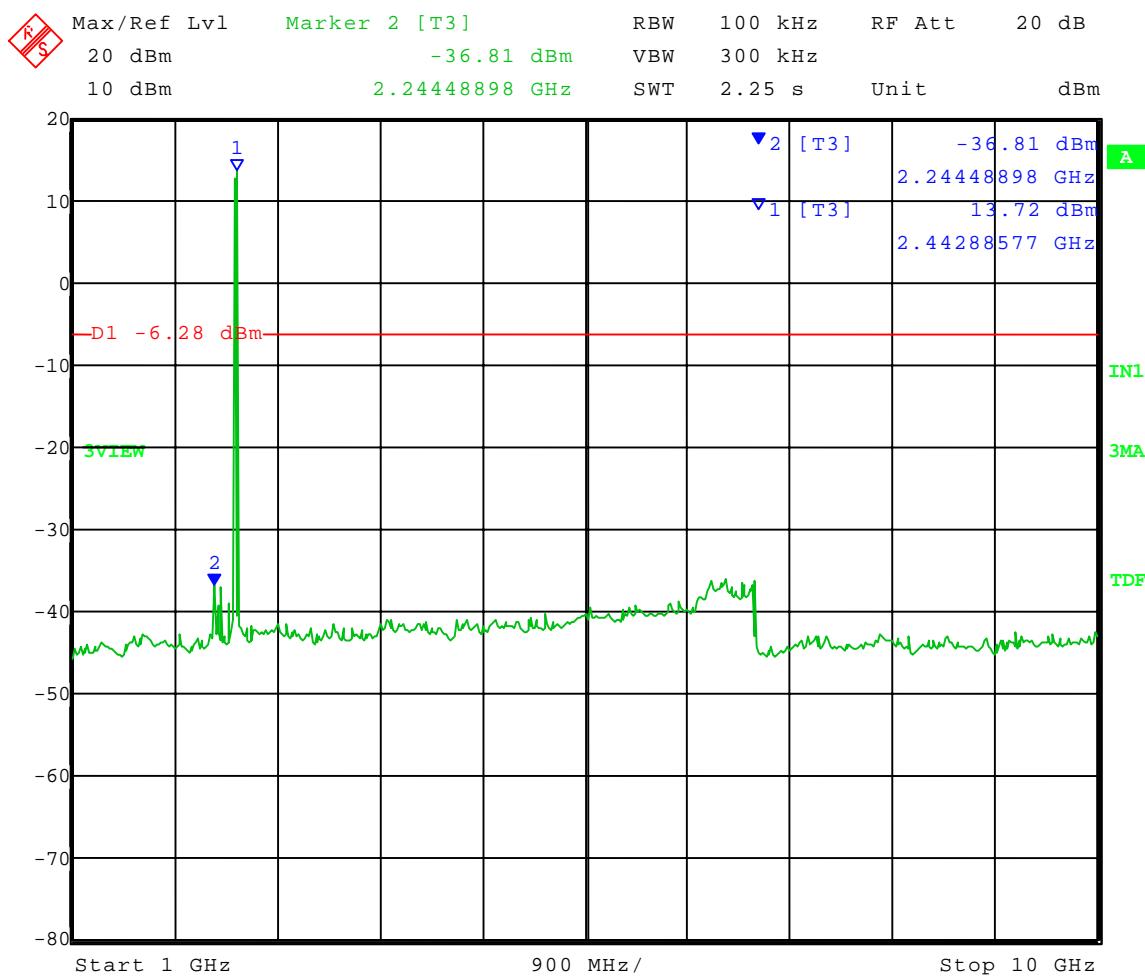
Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: Middle Channel Transmit = 2.440 GHz

Frequency Range: 1 to 10 GHz

Limit = -6.28 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 28.MAR.2008 10:06:16



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

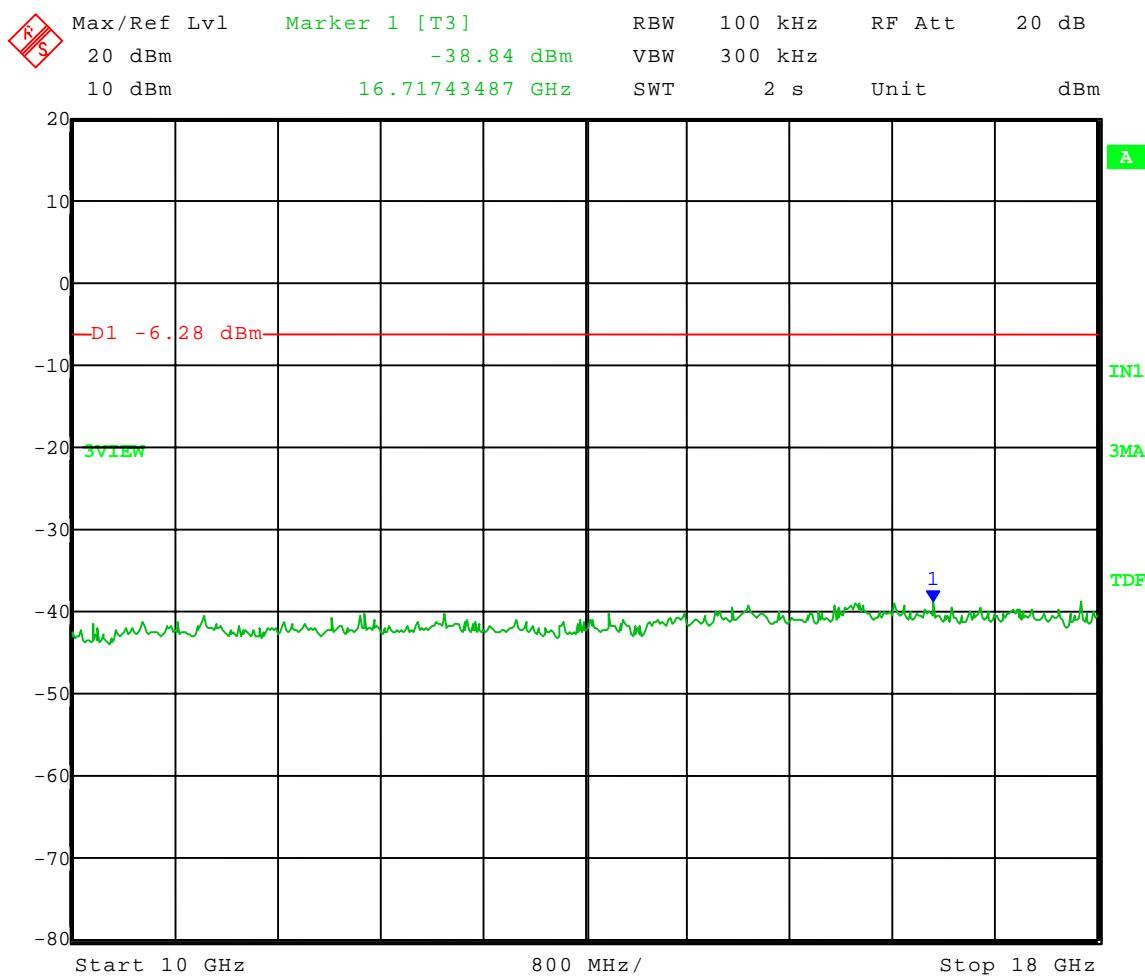
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: Middle Channel Transmit = 2.440 GHz
Frequency Range: 10 to 18 GHz
Limit = -6.28 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency





Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

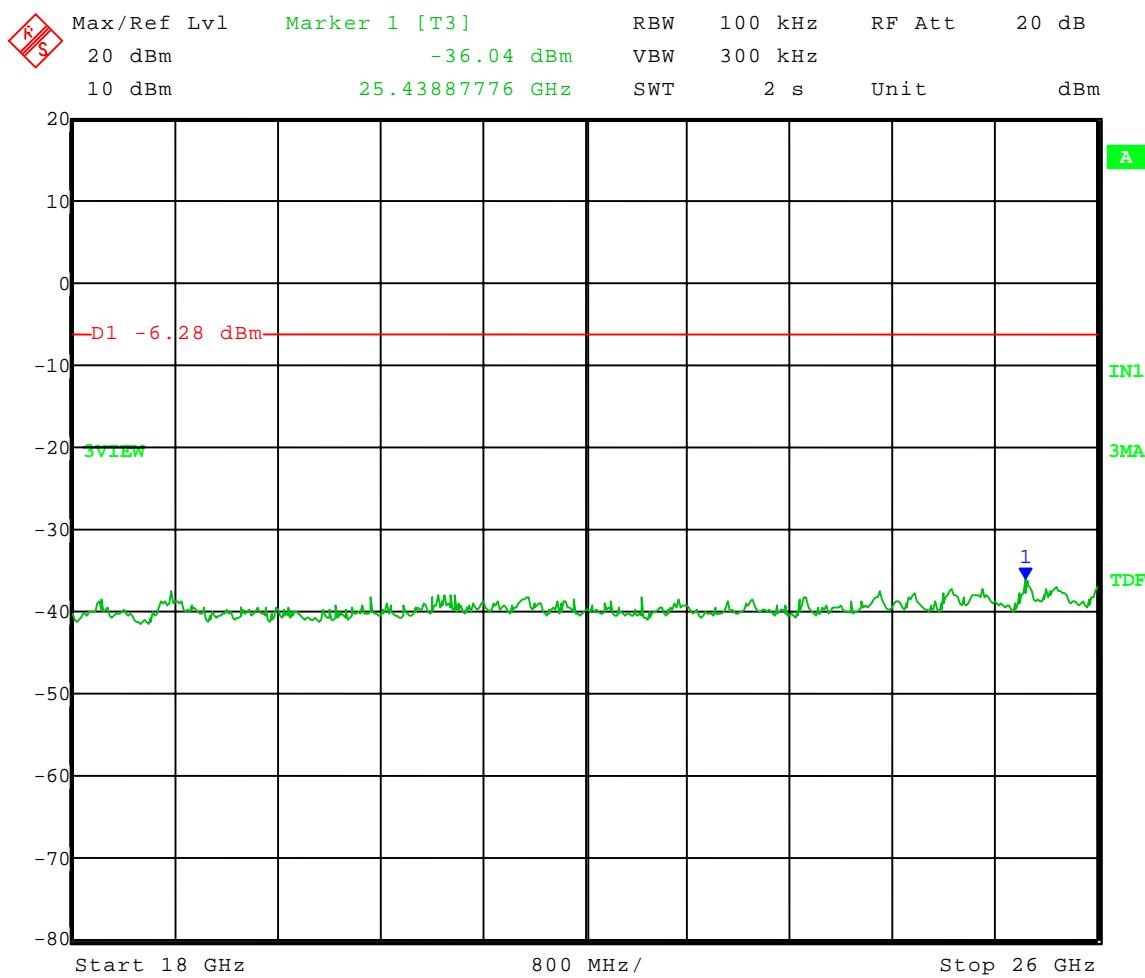
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: Middle Channel Transmit = 2.440 GHz
Frequency Range: 18 to 26 GHz
Limit = -6.28 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 28.MAR.2008 10:10:42



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

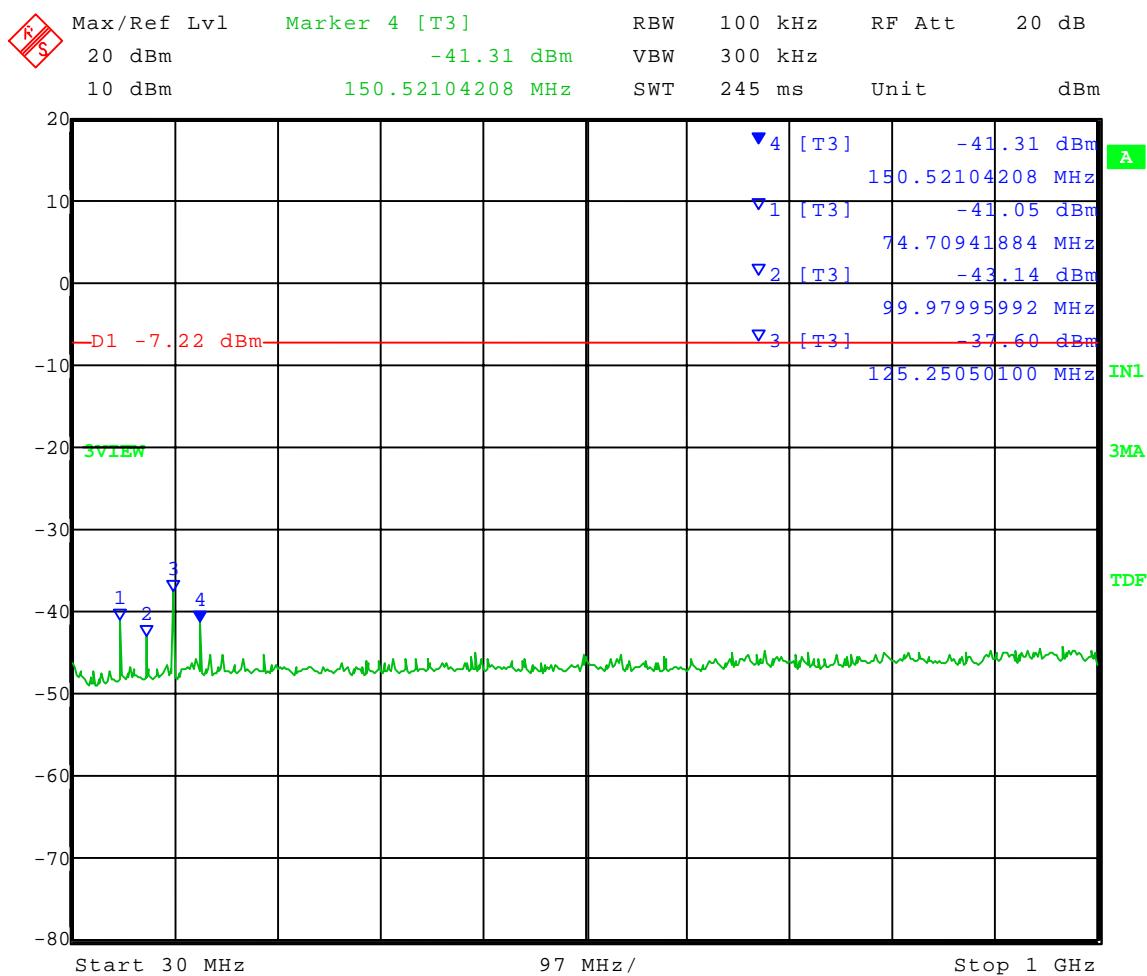
Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: High Channel Transmit = 2.475 GHz

Frequency Range: 30 to 1000 MHz

Limit = -7.22 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 28.MAR.2008 10:25:34



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

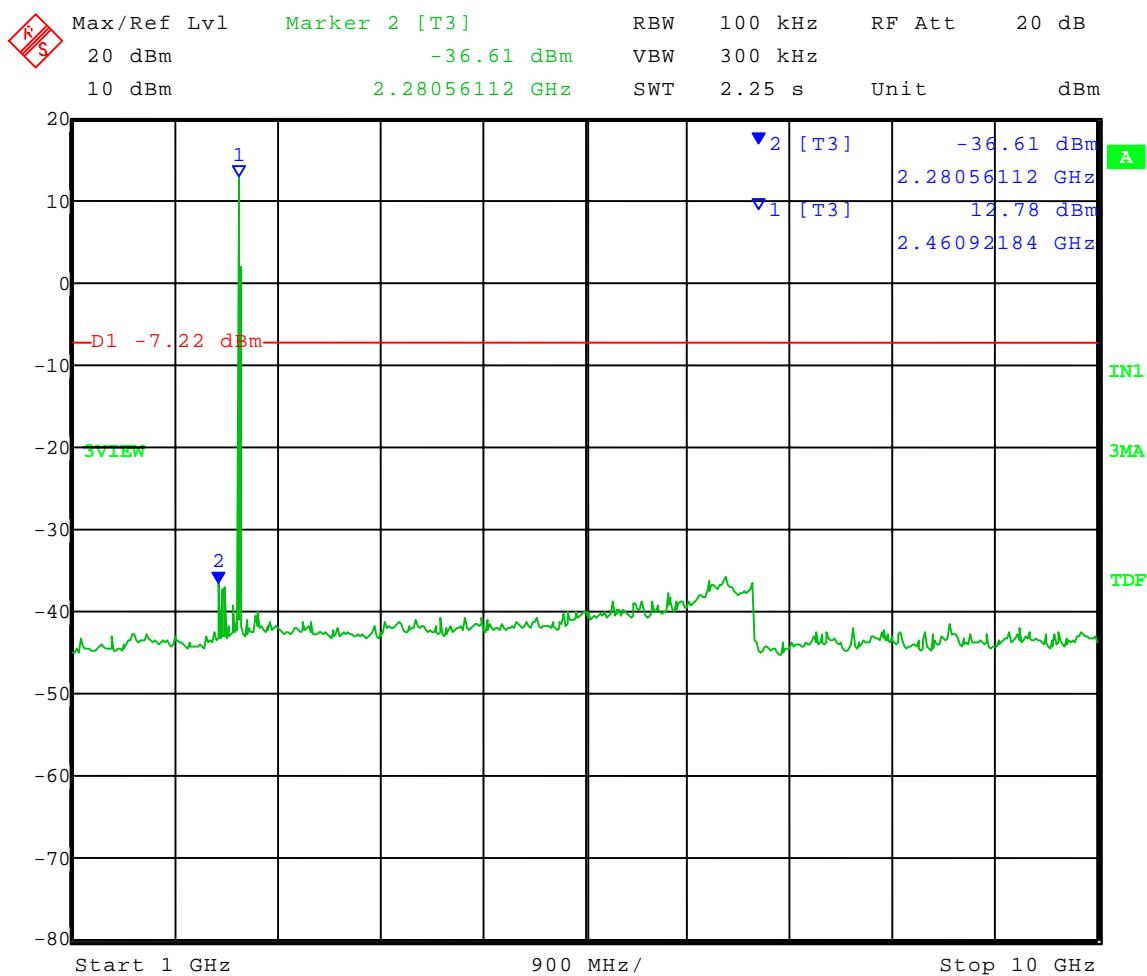
Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: **High Channel Transmit = 2.475 GHz**

Frequency Range: 1 to 10 GHz

Limit = -7.22 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 28.MAR.2008 10:19:09



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

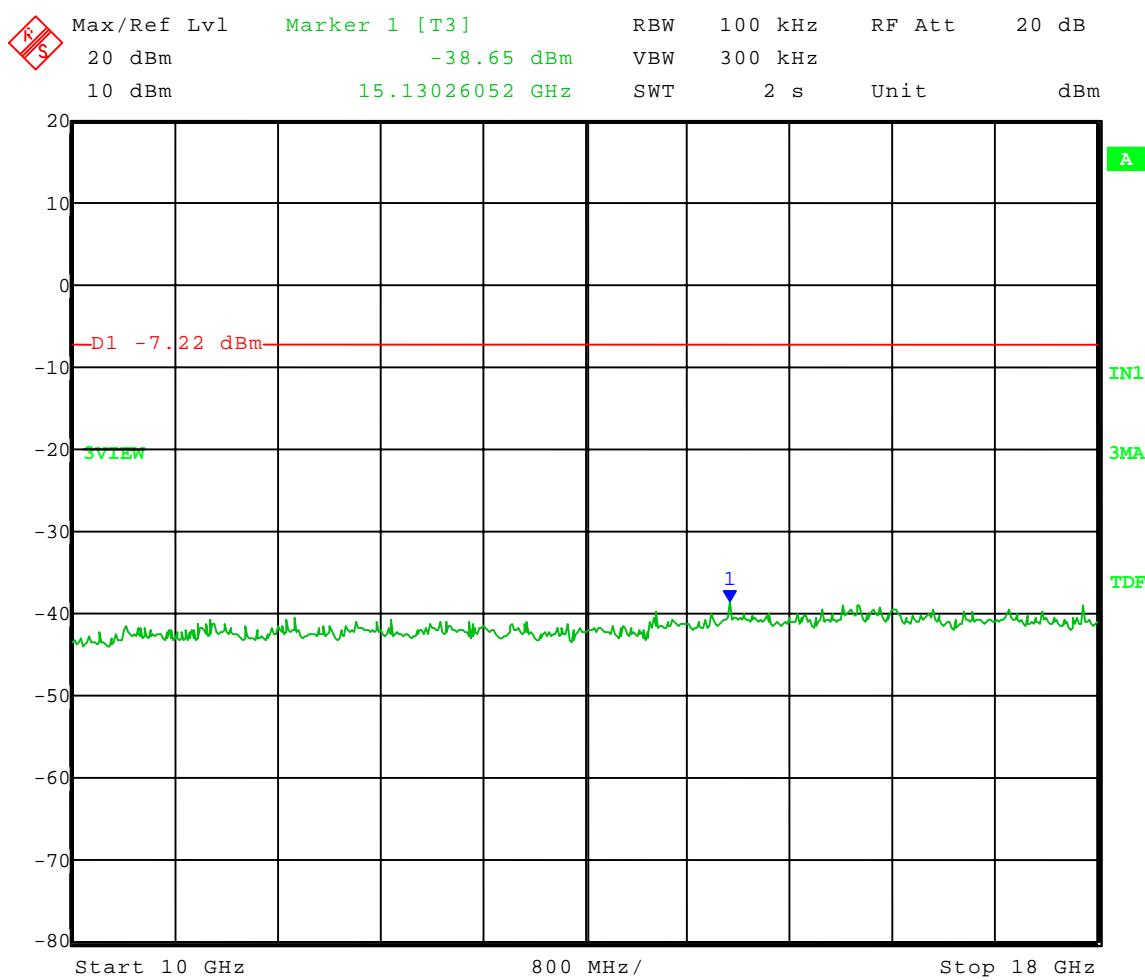
Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: **High Channel Transmit = 2.475 GHz**

Frequency Range: 10 to 18 GHz

Limit = -7.22 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 28.MAR.2008 10:21:16



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

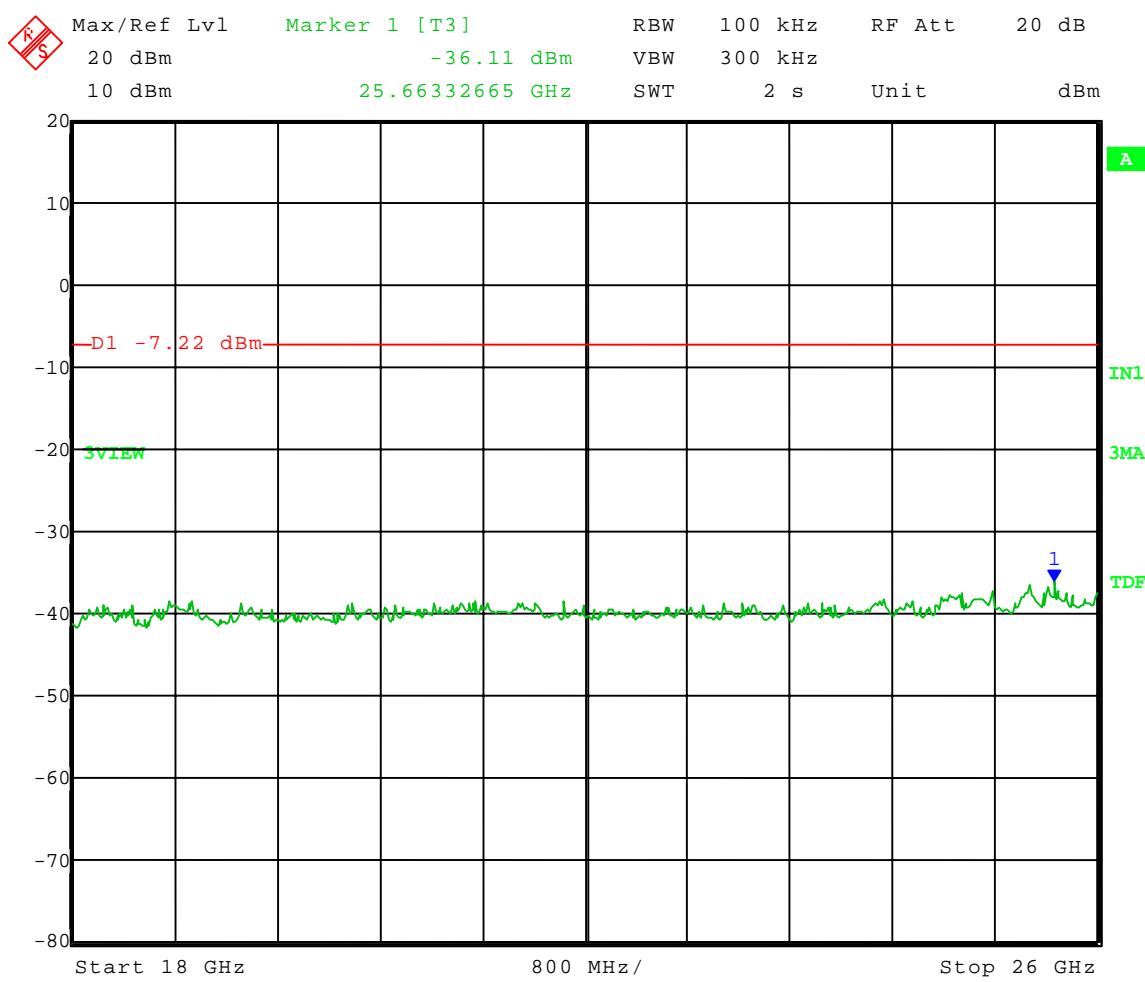
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: **High Channel Transmit = 2.475 GHz**
Frequency Range: 18 to 26 GHz
Limit = -7.22 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 28.MAR.2008 10:23:06

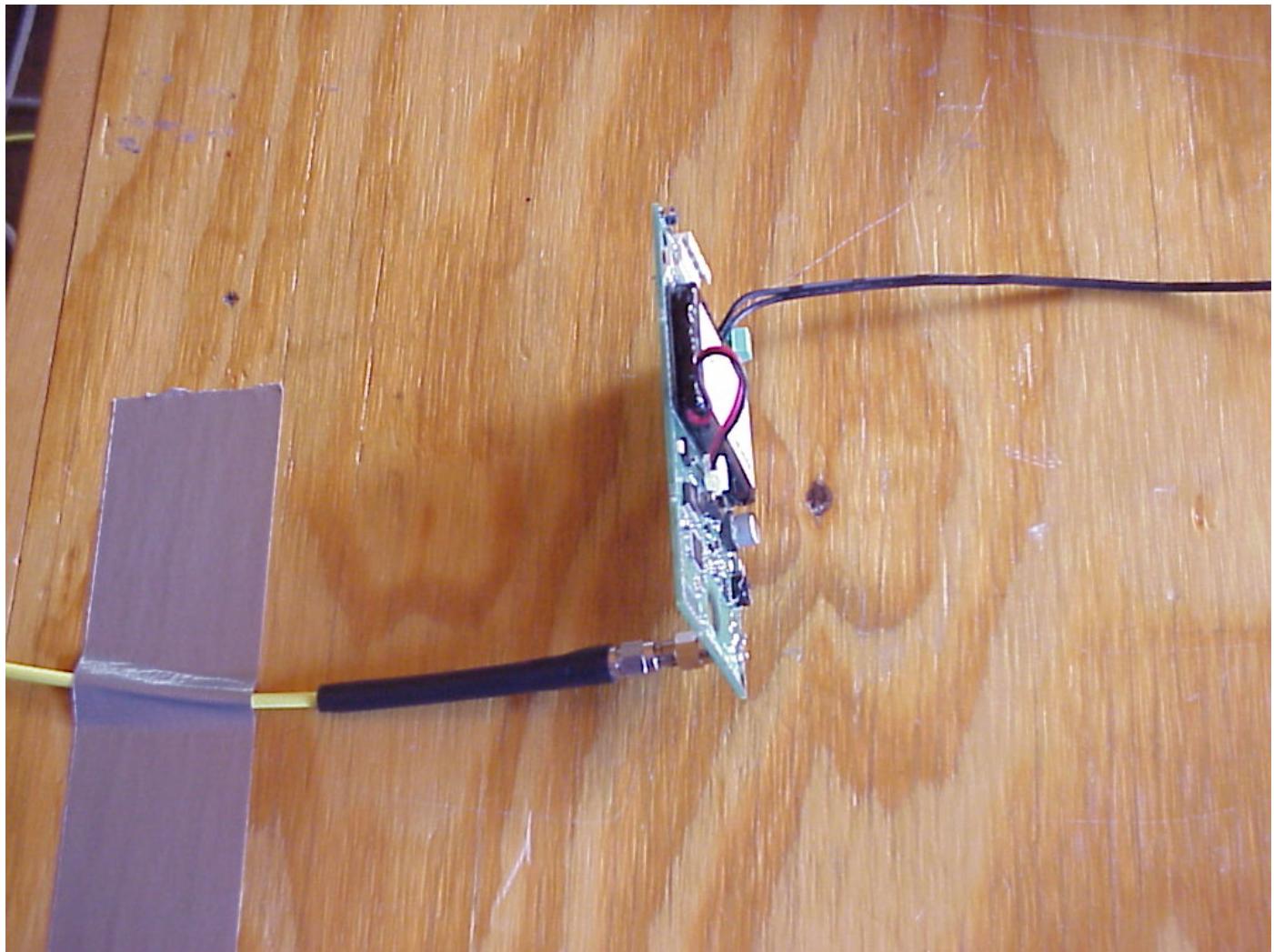


Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

3.0 CONDUCTED EMISSIONS (ANTENNA TERMINAL) PHOTOS TAKEN DURING TESTING





Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

4.0 RESTRICTED BANDS

As stated in Section 15.205a, the fundamental emission from the Router shall not fall within any of the bands listed below:

Frequency in MHz	Frequency in MHz	Frequency in MHz	Frequency in GHz
.0900 to .1100	162.0125 to 167.17	2310.0 to 2390	9.30 to 9.50
.4900 to .5100	167.7200 to 173.20	2483.5 to 2500	10.60 to 12.70
2.1735 to 2.1905	240.000 to 285.00	2655.0 to 2900	13.25 to 13.40
8.362 to 8.3660	322.200 to 335.40	3260.0 to 3267	14.47 to 14.50
13.36 to 13.410	399.900 to 410.00	3332.0 to 3339	15.35 to 16.20
25.50 to 25.670	608.000 to 614.00	3345.8 to 3358	17.70 to 21.40
37.50 to 38.250	960.000 to 1240.00	3600.0 to 4400	22.01 to 23.13
73.00 to 75.500	1300.000 to 1427.00	4500.0 to 5250	23.60 to 24.00
108.00 to 121.94	1435.000 to 1626.50	5350.0 to 5450	31.20 to 31.80
123.00 to 138.00	1660.000 to 1710.00	7250.0 to 7750	36.43 to 36.50
149.90 to 150.00	1718.800 to 1722.20	8025.0 to 8500	ABOVE 38.60
156.70 to 156.90	2200.000 to 2300.00	9000.0 to 9200	

NOTE:

The noise floor within the Restricted Bands for the EMC Receiver will typically lay 20 dB below the limit.

5.0 RESTRICTED BAND AND BAND EDGE COMPLIANCE

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the attenuation below the general limits specified in 15.209 is not required.

The field strength of any **radiated emissions** which fall within the restricted bands shall not exceed the general radiated emissions limits as stated Section 15.209.

NOTE: See the following page(s) for the graph(s) made showing compliance for Restricted Band and Band Edge Compliance:



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

DATA AND GRAPH(S) TAKEN SHOWING

THE RESTRICTED BAND COMPLIANCE

PART 15.247(c)



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

Radiated Spurious Emissions in Restricted Bands

Tested at a 3 Meter Distance 1 GHz to 18 GHz and tested at a 1 Meter Distance 18 GHz to 26 GHz

EUT: Router Model: 0800-0364
Manufacturer: RF Technologies
Operating Condition: 70 deg F; 26% R.H.
Test Site: Site 3
Operator: Craig B
Test Specification: FCC Part 15.247(d) and FCC Part 15.205
Comment: Continuous transmit
Date: 03/28/2008

Notes: (1) Peak measurements were taken with RBW = 1 MHz, VBW = 3 MHz
(2) Average measurements were taken with RBW = 1 MHz, VBW = 10 Hz
(3) All other restricted band emissions at least 20 dB under the limit.

Channel 11:

Frequency (GHz)	Measurement Type	Ant. Pol.	Level (dBuV)	Antenna Factor (dB/m)	System Loss (dB)	Total Level (dBuV/m)	Duty Cycle Correction (dB)	Final Corrected (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Comment
4.81	Average	Vert	47.97	32.90	-33.5	47.4	-13.0	34.4	54	19.6	Res. Band
4.81	Max Peak	Vert	58.20	32.90	-33.5	57.6	---	57.6	74	16.4	Res. Band
4.81	Average	Horz	41.67	32.90	-33.5	41.1	-13.0	28.1	54	25.9	Res. Band
4.81	Max Peak	Horz	53.59	32.90	-33.5	53.0	---	53.0	74	21.0	Res. Band
12.025	Average	Vert	39.55	38.99	-29.0	49.5	-13.0	36.5	54	17.5	Res. Band
12.025	Max Peak	Vert	51.28	38.99	-29.0	61.3	---	61.3	74	12.7	Res. Band
12.025	Average	Horz	39.70	38.99	-29.0	49.7	-13.0	36.7	54	17.3	Res. Band
12.025	Max Peak	Horz	52.42	38.99	-29.0	62.4	---	62.4	74	11.6	Res. Band
19.240	Average	Vert	43.40	45.64	-35.5	53.5	-13.0	40.5	63.5	23.0	Res. Band
19.240	Max Peak	Vert	54.69	45.64	-35.5	64.8	---	64.8	83.5	18.7	Res. Band
19.240	Average	Horz	39.48	45.64	-35.5	49.6	-13.0	36.6	63.5	26.9	Res. Band
19.240	Max Peak	Horz	51.62	45.64	-35.5	61.8	---	61.8	83.5	21.7	Res. Band



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

Radiated Spurious Emissions in Restricted Bands

Tested at a 3 Meter Distance 1 GHz to 18 GHz and tested at a 1 Meter Distance 18 GHz to 26 GHz

EUT: Router Model: 0800-0364
Manufacturer: RF Technologies
Operating Condition: 70 deg F; 26% R.H.
Test Site: Site 3
Operator: Craig B
Test Specification: FCC Part 15.247(d) and FCC Part 15.205
Comment: Continuous transmit
Date: 03/28/2008

Notes: (1) Peak measurements were taken with RBW = 1 MHz, VBW = 3 MHz
(2) Average measurements were taken with RBW = 1 MHz, VBW = 10 Hz
(3) All other restricted band emissions at least 20 dB under the limit.

Channel 18:

Frequency (GHz)	Measurement Type	Ant. Pol.	Level (dBuV)	Antenna Factor (dB/m)	System Loss (dB)	Total Level (dBuV/m)	Duty Cycle Correction (dB)	Final Corrected (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Comment
4.88	Average	Vert	46.22	33.01	-33.5	45.7	-13.0	32.7	54	21.3	Res. Band
4.88	Max Peak	Vert	56.85	33.01	-33.5	56.4	---	56.4	74	17.6	Res. Band
4.88	Average	Horz	41.84	33.01	-33.5	41.4	-13.0	28.4	54	25.6	Res. Band
4.88	Max Peak	Horz	52.62	33.01	-33.5	52.1	---	52.1	74	21.9	Res. Band
7.32	Average	Vert	39.93	36.10	-30.7	45.3	-13.0	32.3	54	21.7	Res. Band
7.32	Max Peak	Vert	51.67	36.10	-30.7	57.1	---	57.1	74	16.9	Res. Band
7.32	Average	Horz	42.88	36.10	-30.7	48.3	-13.0	35.3	54	18.7	Res. Band
7.32	Max Peak	Horz	54.37	36.10	-30.7	59.8	---	59.8	74	14.2	Res. Band
12.20	Average	Vert	40.85	38.88	-28.8	50.9	-13.0	37.9	54	16.1	Res. Band
12.20	Max Peak	Vert	52.42	38.88	-28.8	62.5	---	62.5	74	11.5	Res. Band
12.20	Average	Horz	40.29	38.88	-28.8	50.4	-13.0	37.4	54	16.6	Res. Band
12.20	Max Peak	Horz	52.73	38.88	-28.8	62.8	---	62.8	74	11.2	Res. Band
19.520	Average	Vert	39.19	45.92	-35.3	49.8	-13.0	36.8	63.5	26.7	Res. Band
19.520	Max Peak	Vert	52.34	45.92	-35.3	63.0	---	63.0	83.5	20.5	Res. Band
19.520	Average	Horz	38.57	45.92	-35.3	49.2	-13.0	36.2	63.5	27.3	Res. Band
19.520	Max Peak	Horz	52.76	45.92	-35.3	63.4	---	63.4	83.5	20.1	Res. Band



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

Radiated Spurious Emissions in Restricted Bands

Tested at a 3 Meter Distance 1 GHz to 18 GHz and tested at a 1 Meter Distance 18 GHz to 26 GHz

EUT: Router Model: 0800-0364
Manufacturer: RF Technologies
Operating Condition: 70 deg F; 26% R.H.
Test Site: Site 3
Operator: Craig B
Test Specification: FCC Part 15.247(d) and FCC Part 15.205
Comment: Continuous transmit
Date: 03/28/2008

Notes: (1) Peak measurements were taken with RBW = 1 MHz, VBW = 3 MHz
(2) Average measurements were taken with RBW = 1 MHz, VBW = 10 Hz
(3) All other restricted band emissions at least 20 dB under the limit.

Channel 25:

Frequency (GHz)	Measurement Type	Ant. Pol.	Level (dBuV)	Antenna Factor (dB/m)	System Loss (dB)	Total Level (dBuV/m)	Duty Cycle Correction (dB)	Final Corrected (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Comment
4.95	Average	Vert	46.05	33.12	-33.5	45.7	-13.0	32.7	54	21.3	Res. Band
4.95	Max Peak	Vert	57.02	33.12	-33.5	56.6	---	56.6	74	17.4	Res. Band
4.95	Average	Horz	41.88	33.12	-33.5	41.5	-13.0	28.5	54	25.5	Res. Band
4.95	Max Peak	Horz	52.26	33.12	-33.5	51.9	---	51.9	74	22.1	Res. Band
7.425	Average	Vert	38.14	36.39	-30.2	44.3	-13.0	31.3	54	22.7	Res. Band
7.425	Max Peak	Vert	50.88	36.39	-30.2	57.1	---	57.1	74	16.9	Res. Band
7.425	Average	Horz	43.05	36.39	-30.2	49.2	-13.0	36.2	54	17.8	Res. Band
7.425	Max Peak	Horz	54.14	36.39	-30.2	60.3	---	60.3	74	13.7	Res. Band
12.375	Average	Vert	40.59	38.78	-29.0	50.4	-13.0	37.4	54	16.6	Res. Band
12.375	Max Peak	Vert	52.49	38.78	-29.0	62.3	---	62.3	74	11.7	Res. Band
12.375	Average	Horz	41.80	38.78	-29.0	51.6	-13.0	38.6	54	15.4	Res. Band
12.375	Max Peak	Horz	53.48	38.78	-29.0	63.3	---	63.3	74	10.7	Res. Band



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

Radiated Spurious Emissions in Restricted Bands

Tested at a 3 Meter Distance 1 GHz to 18 GHz and tested at a 1 Meter Distance 18 GHz to 26 GHz

EUT: Router Model: 0800-0364
Manufacturer: RF Technologies
Operating Condition: 70 deg F; 26% R.H.
Test Site: Site 3
Operator: Craig B
Test Specification: FCC Part 15.247(d) and FCC Part 15.205
Comment: Continuous transmit
Date: 03/28/2008

Notes: (1) Peak measurements were taken with RBW = 1 MHz, VBW = 3 MHz
(2) Average measurements were taken with RBW = 1 MHz, VBW = 10 Hz
(3) All other restricted band emissions at least 20 dB under the limit.

Channel 25:

Frequency (GHz)	Measurement Type	Ant. Pol.	Level (dBuV)	Antenna Factor (dB/m)	System Loss (dB)	Total Level (dBuV/m)	Duty Cycle Correction (dB)	Final Corrected (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Comment
19.800	Average	Vert	38.32	46.14	-34.7	49.8	-13.0	36.8	63.5	26.7	Res. Band
19.800	Max Peak	Vert	51.54	46.14	-34.7	63.0	---	63.0	83.5	20.5	Res. Band
19.800	Average	Horz	38.66	46.14	-34.7	50.1	-13.0	37.1	63.5	26.4	Res. Band
19.800	Max Peak	Horz	50.95	46.14	-34.7	62.4	---	62.4	83.5	21.1	Res. Band
22.275	Average	Vert	44.31	46.40	-35.8	54.9	-13.0	41.9	63.5	21.6	Res. Band
22.275	Max Peak	Vert	56.29	46.40	-35.8	66.9	---	66.9	83.5	16.6	Res. Band
22.275	Average	Horz	44.57	46.40	-35.8	55.2	-13.0	42.2	63.5	21.3	Res. Band
22.275	Max Peak	Horz	56.42	46.40	-35.8	67.0	---	67.0	83.5	16.5	Res. Band



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

DATA AND GRAPH(S) TAKEN SHOWING THE BAND EDGE CONDUCTED COMPLIANCE

PART 15.247(c)



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

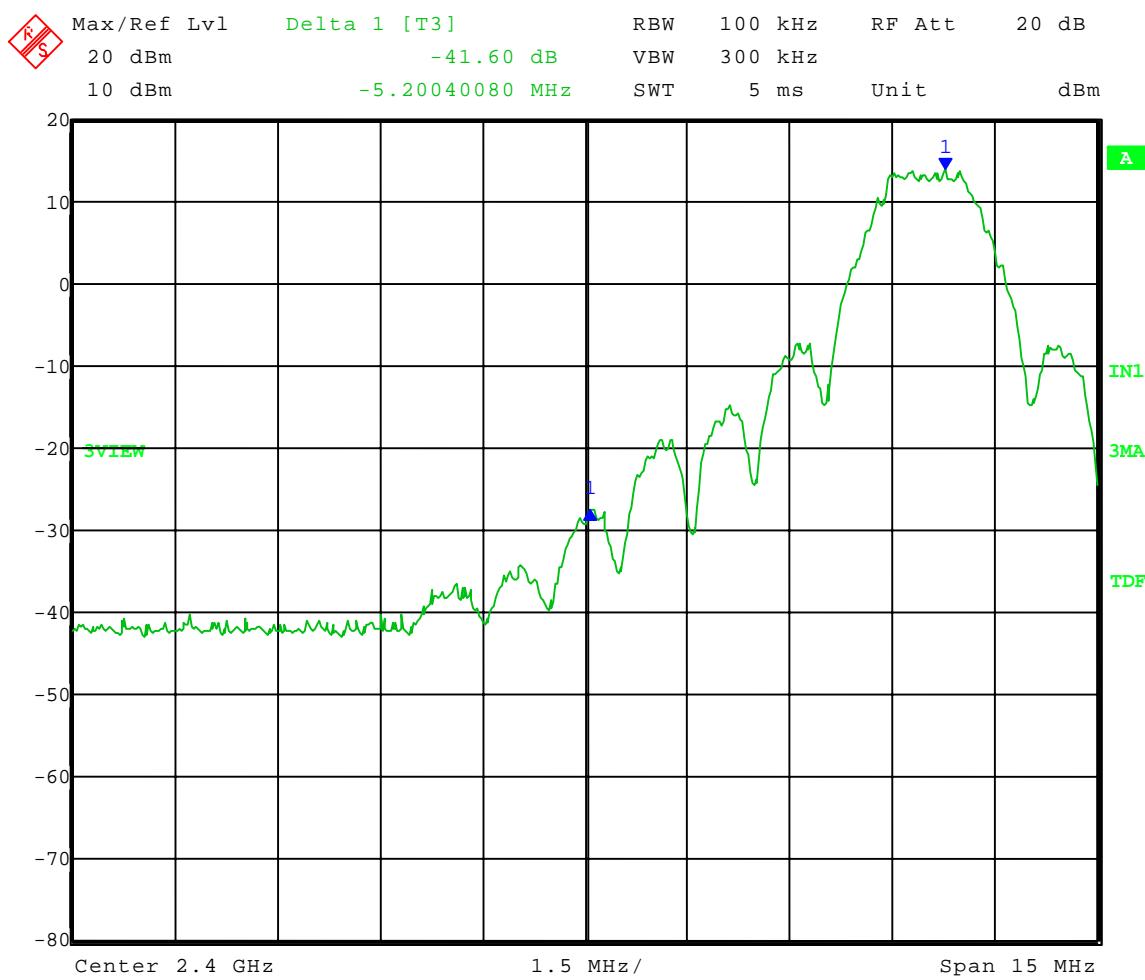
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Low Band-Edge Compliance - Conducted
Operator: Craig B

Comment: Low Channel: Frequency – 2.405 GHz

Band-Edge Frequency = 2.4 GHz
Band-Edge > 20 dB Below Peak In-Band Emission





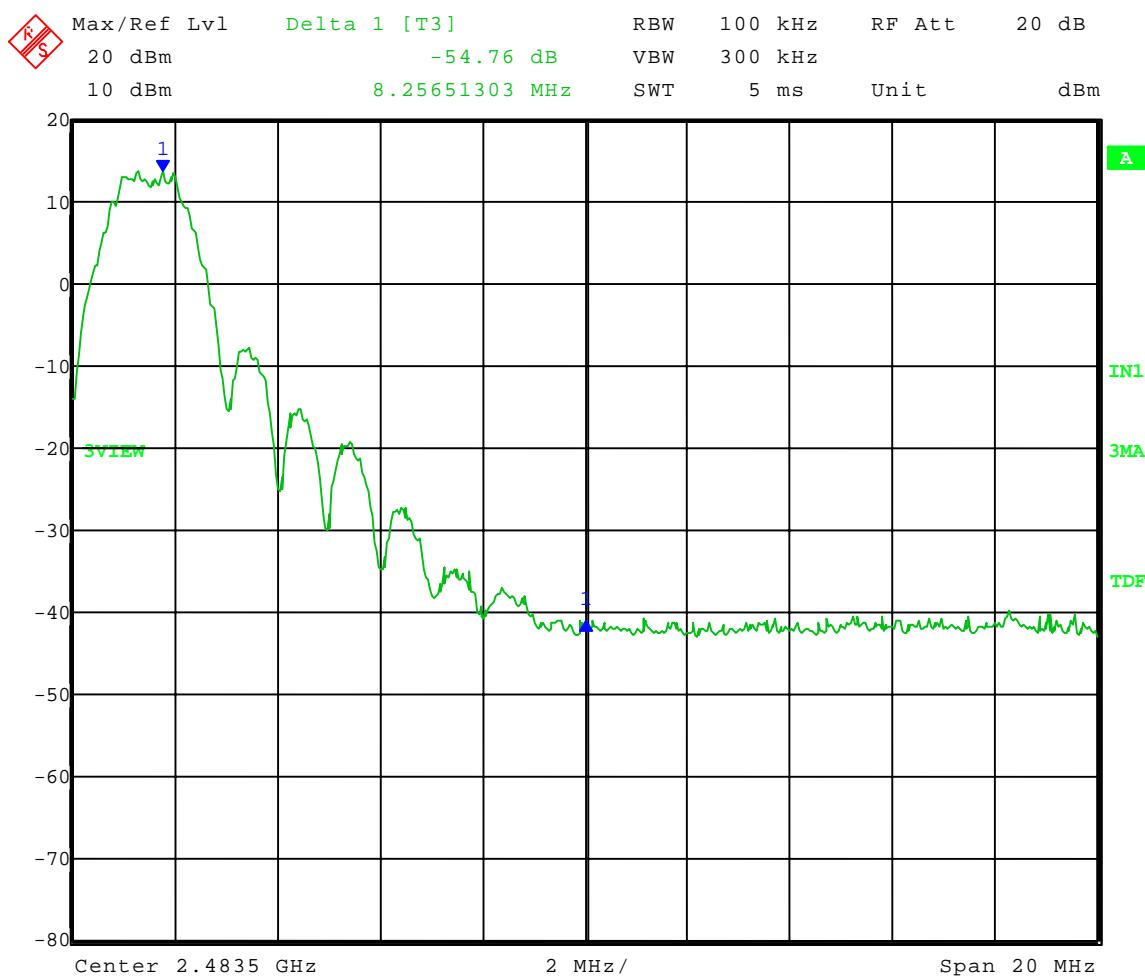
Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Upper Band-Edge Compliance - Conducted
Operator: Craig B
Comment: **High Channel: Frequency – 2.475 GHz**

Band-Edge Frequency = 2.4835 GHz
Band-Edge > 20 dB Below Peak In-Band Emission





Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

DATA AND GRAPH(S) TAKEN SHOWING

THE UPPER BAND EDGE

PART 15.247(c)

BAND EDGE FALLS ON THE RESTRICTED

FREQUENCY BAND



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Radiated Upper Band-Edge measurement

Test Procedure: "Measurement of Digital Transmission Systems Operating under Section 15.247 (March 23, 2005)

The EUT was investigated at the low and high channels of operation to determine band-edge compliance. Because the upper band-edge coincides with a restricted band, bandedge compliance for the upper band-edge was determined using the radiated mark-delta method. The radiated field strength of the fundamental emission was first determined and then the mark-delta method was used to determine the field strength of the band-edge emissions.

The lower band-edge compliance was determined using the marker-delta method in which the radio frequency power that is produced by the EUT is at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power.

Upper Band-Edge Marker Delta Method

Frequency (MHz)	Antenna Polarity (H/V)	Fundamental Field Strength (dB μ V/m)	Duty Cycle Correction (dB)	Delta-Marker (dB)	Band-Edge Field Strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
2475 (Peak)	V	116.75	N/A	-57.63	59.12	74	14.88
2475 (Avg)	V	114.04	-13.0	-57.63	43.41	54	10.59

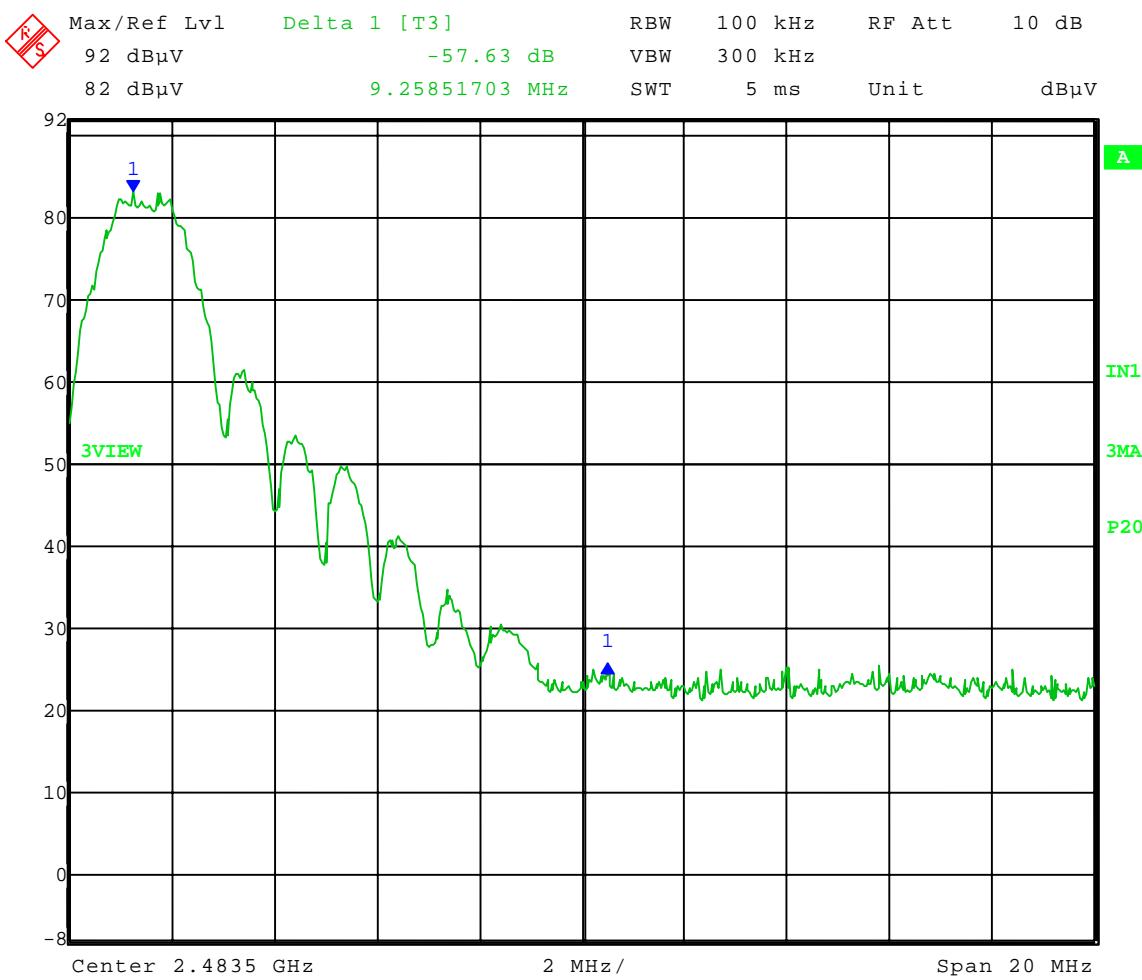


Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 04-02-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Upper Band-Edge Radiated – Marker Delta Method
Operator: Craig B
Comment: **High Channel: Frequency – 2.475 GHz**



Date: 2.APR.2008 16:44:14



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

6.0 FIELD STRENGTH OF FUNDAMENTAL AND SPURIOUS EMISSION MEASUREMENTS

The radiated measurements made at D.L.S. Electronic Systems, Inc., for the Router, Model Number: 0800-0364, are shown in tabulated and graph form. Preliminary radiation measurements were performed at a 3 meter test distance with the limits adjusted linearly when required. The frequency range from 30 MHz to over 960 MHz, depending upon the fundamental frequency as stated in Part 15.33a, was automatically scanned and plotted at various angles.

Measurements for the Router were made up to 26,000 MHz, in accordance with Section 15.33a for Intentional Radiators with a fundamental frequency of 32 MHz. For intentional radiators, the frequency range to be investigated is determined by the lowest radio frequency generated by the device without going below 30 MHz, up to at least the tenth harmonic of the highest fundamental frequency or 10 GHz, whichever is lower. At those frequencies where significant signals were detected, measurements were made over the entire frequency range specified in FCC Part 15, Subpart C, Section 15.247 at the open field test site, located at Genoa City, Wisconsin, FCC file number **31040/SIT**. When required, limits were extrapolated using a linear extrapolation.

All signals in the frequency range of 30 MHz to 2000 MHz were measured with a Biconical Antenna or tuned dipoles and from 200 MHz to 1000 MHz, a Log Periodic or Tuned Dipoles were used. From 1000 MHz to 25 GHz Horn Antennas were used. During the test the equipment was rotated and the antenna was raised and lowered from 1 meter to 4 meters to find the maximum level of emissions. In order to find maximum emissions, the cables were moved through all the positions the equipment would be expected to experience in the field. The EUT, peripheral equipment and cables were configured to meet the conditions in ANSI C63.4-2003, Clauses 6 & 8. Tests were made with the receive antenna(s) in both the horizontal and vertical planes of polarization. In each case, the table was rotated to find the maximum emissions.



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

6.0 FIELD STRENGTH OF FUNDAMENTAL AND SPURIOUS EMISSION MEASUREMENTS (CON'T)

As stated in Section 15.247(b) the allowed maximum peak output power of the transmitter shall not exceed 1 Watt. In any 100 kHz bandwidth outside these frequency bands (the power that is produced by the modulation products of the spreading sequence), the information sequence and the carrier frequency shall be either at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Attenuation below the general limits specified in 15.209 is not required.

Field strength limits are at a distance of 3 meters. The emission limits shown are based on measurement instrumentation employing an average detector.

Emissions radiated outside of the specified frequency bands, except for harmonics are attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Preliminary radiated emission measurements were performed at a 3 meter test distance. The frequency range from 30 MHz to 1000 MHz was automatically scanned and plotted at various angles.

NOTE:

All radiated emissions measurements were made at a test room temperature of **70°F** at **26%** relative humidity.



1250 Peterson Dr., Wheeling, IL 60090

Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

APPENDIX A

RADIATED DATA AND GRAPH(S) TAKEN FOR FIELD STRENGTH OF FUNDAMENTAL AND SPURIOUS EMISSION MEASUREMENTS

PART 15.247

30 MHz – 1000 MHz

Electric Field Strength

EUT: Router Model: 0800-0364 (Intelink & GlobTek supplies)
Manufacturer: RF Technologies
Operating Condition: 70 deg. F; 31% R.H.
Test Site: DLS O.F. Site 3
Operator: Craig B
Test Specification: 120 V 60 Hz
Comment: Tx and Rx mode; Low, Mid, and High channels
Date: 04-01-2008

TEXT: "Site 3 MidV 3M"

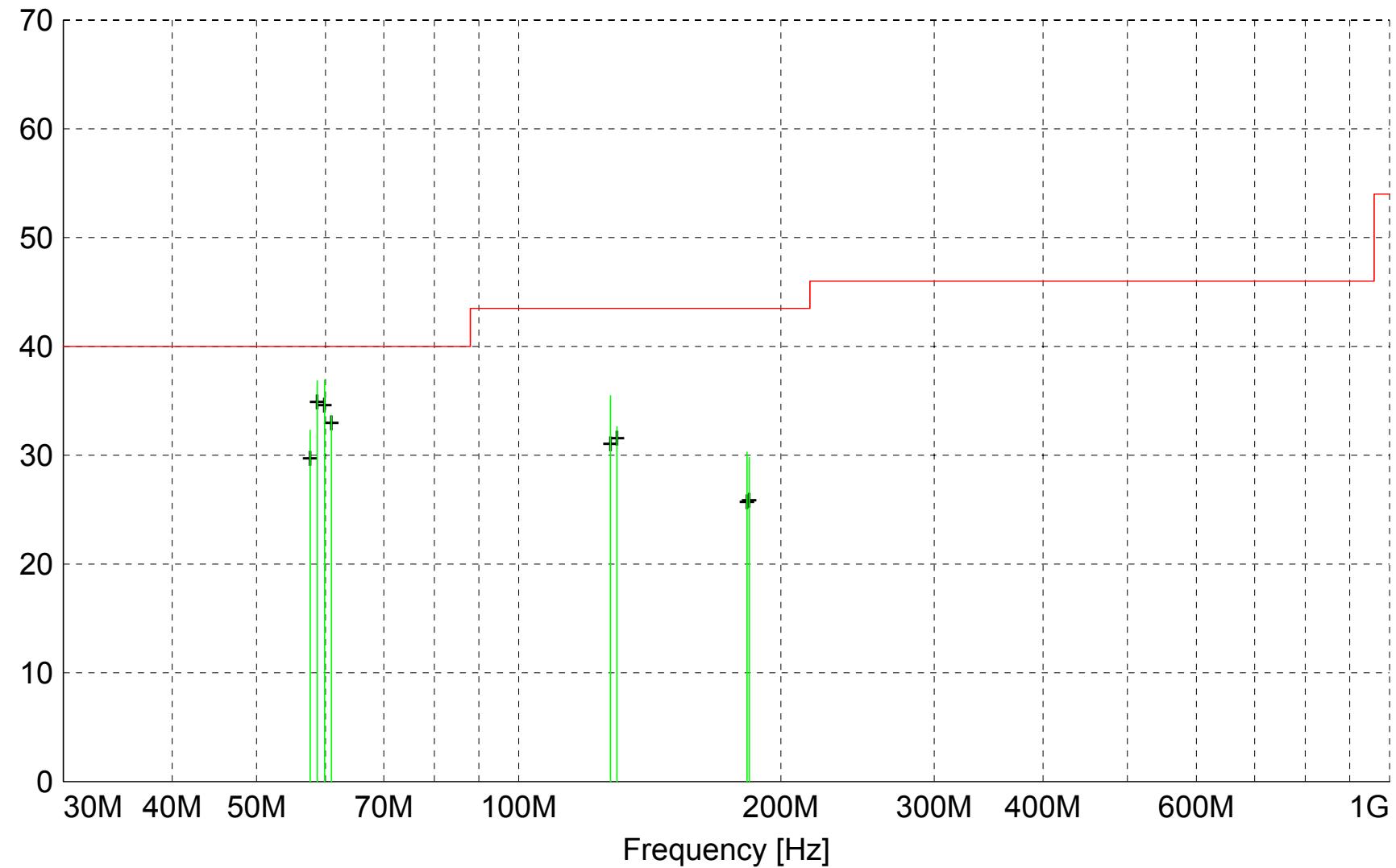
Short Description: Test Set-up Vert30-1000MHz
TEST EQUIPMENT: Receiver --- Rohde&Schwarz ESI 40 SN: 837808/005

Antennas ---
Biconical -- EMCO 3104C SN: 9701-4785
Log Periodic -- EMCO 3146 SN: 9702-4895

Pre-Amp --- Rohde&Schwarz TS-PR10 SN: 032001/005

TEST SET-UP: EUT Measured at 3 Meters with VERTICAL Antenna Polarization

Level [dB μ V/m]



||||| MES A3263_F1V_Quasi-Peak
+ + · MES A3263_F1V_Peak_List
— LIM FCC Class B F QP/AV Field Strength FCC Class B 3m

MEASUREMENT RESULT: "A3263_F1V_Final"

4/1/2008 2:28PM

Frequency MHz	Level dB μ V	Antenna Factor	System Loss dB	Total dB μ V/m	Limit dB μ V/m	Margin dB	Height Ant. m	EuT Angle deg	Final Detector	Comment
59.845000	51.89	9.34	-24.3	36.9	40.0	3.1	1.00	110	QUASI-PEAK	None
58.715000	51.63	9.55	-24.3	36.9	40.0	3.1	1.00	110	QUASI-PEAK	None
60.945000	48.84	9.12	-24.3	33.7	40.0	6.3	1.00	110	QUASI-PEAK	None
57.620000	46.91	9.74	-24.3	32.3	40.0	7.7	1.00	110	QUASI-PEAK	None
127.455000	46.19	12.68	-23.4	35.5	43.5	8.0	1.00	0	QUASI-PEAK	None
129.680000	43.47	12.50	-23.4	32.6	43.5	10.9	1.00	0	QUASI-PEAK	None
182.875000	37.16	15.88	-22.8	30.3	43.5	13.2	1.00	190	QUASI-PEAK	None
183.980000	36.54	16.04	-22.8	29.8	43.5	13.7	1.00	190	QUASI-PEAK	None

Electric Field Strength

EUT: Router Model: 0800-0364 (Intelink & GlobTek supplies)
Manufacturer: RF Technologies
Operating Condition: 70 deg. F; 31% R.H.
Test Site: DLS O.F. Site 3
Operator: Craig B
Test Specification: 120 V 60 Hz
Comment: Tx and Rx mode; Low, Mid, and High channels
Date: 04-01-2008

TEXT: "Site 3 MidH 3M"

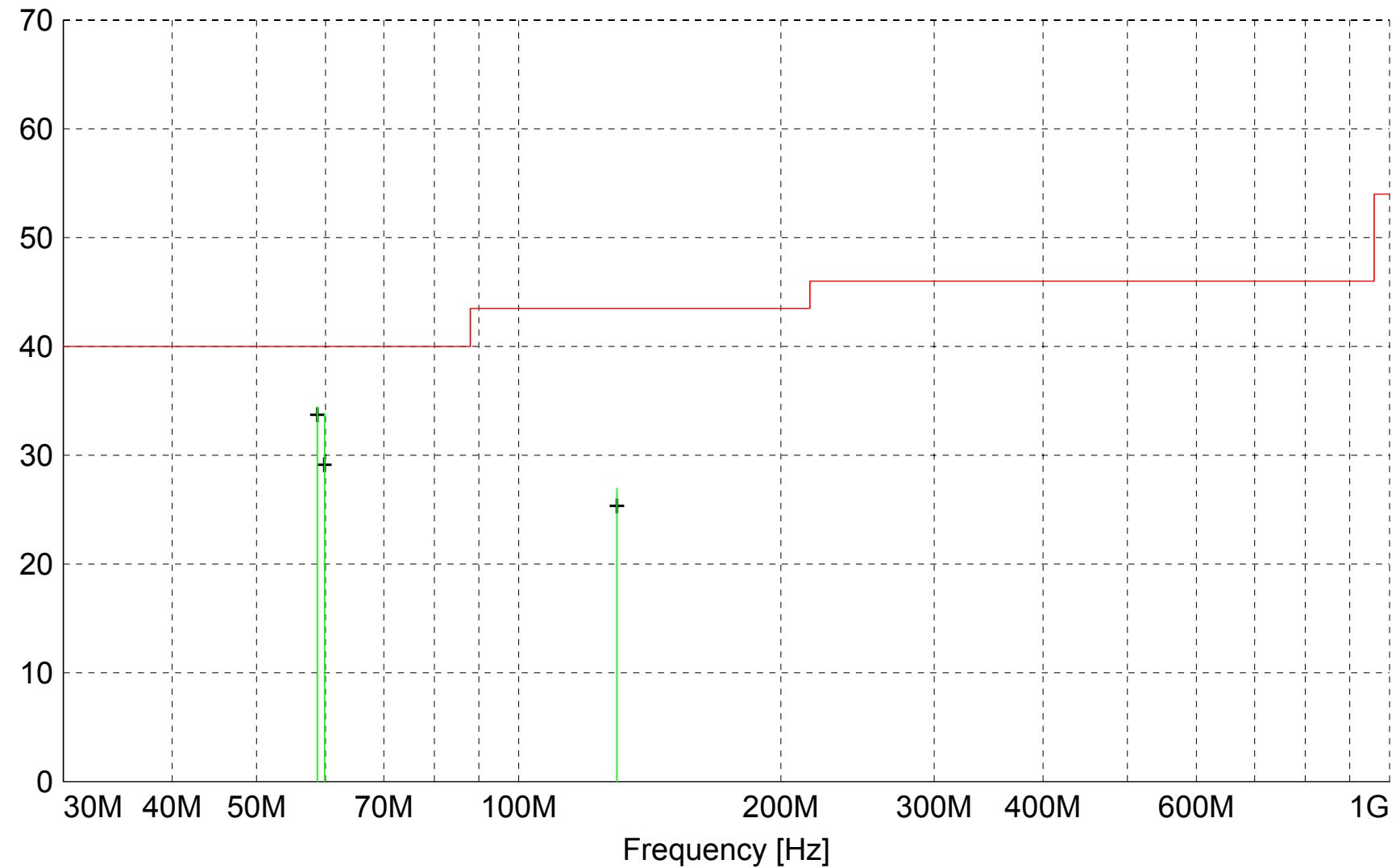
Short Description: Test Set-up Horz30-1000MHz
TEST EQUIPMENT: Receiver --- Rohde&Schwarz ESI 40 SN: 837808/005

Antennas ---
Biconical -- EMCO 3104C SN: 9701-4785
Log Periodic -- EMCO 3146 SN: 9702-4895

Pre-Amp --- Rohde&Schwarz TS-PR10 SN: 032001/005

TEST SET-UP: EUT Measured at 3 Meters with HORIZONTAL Antenna Polarization

Level [dB μ V/m]



||||| MES A3263_F1H_Quasi-Peak
+ + · MES A3263_F1H_Peak_List
— LIM FCC Class B F QP/AV Field Strength FCC Class B 3m

MEASUREMENT RESULT: "A3263_F1H_Final"

4/1/2008 2:26PM

Frequency MHz	Level dB μ V	Antenna Factor dB μ V/m	System Loss dB	Total Level dB μ V/m	Limit dB μ V/m	Margin dB	Height Ant. m	EuT Angle deg	Final Detector	Comment
58.730000	49.22	9.55	-24.3	34.4	40.0	5.6	3.20	180	QUASI-PEAK	None
59.845000	48.83	9.34	-24.3	33.9	40.0	6.1	3.20	200	QUASI-PEAK	None
129.680000	37.82	12.50	-23.4	27.0	43.5	16.5	1.50	80	QUASI-PEAK	None



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

RADIATED DATA AND GRAPH(S) TAKEN FOR E.I.R.P. OF FUNDAMENTAL EMISSION MEASUREMENTS

PART 15.247

SUBSTITUTION METHOD



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

DLS Electronic Systems, Inc.

Company: RF Technologies

Operator: Craig B

Date of test: 03-27-2008

Temperature: 70 deg. F

Humidity: 26% R.H.

EIRP - Substitution Method

Model: Router Model: 0800-0364								
Channel: 11								
Frequency and Polarization (MHz)	Max. Field Strength of EUT @ 3 meters (dBuV/m)	Output of Signal Generator when field strength equals that of EUT (dBm)	Correction factor for cable between Signal Gen. and subst. antenna (dB)	Gain of subst. antenna (dBi)	Strength of emission [EIRP] (dBm)	Limit (dBm)	Margin (dB)	Strength of emission [EIRP] (mW)
2405 vertical	117.86	13.62	1.72	9.59	21.49	30.00	8.51	140.93
2405 horizontal	112.11	5.36	1.72	9.59	13.23	30.00	16.77	21.04

EIRP = Signal generator output - cable loss + antenna gain

ERP_(ref. to 1/2λ dipole) = Signal generator output - cable loss + antenna gain - 2.15



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

DLS Electronic Systems, Inc.

Company: RF Technologies

Operator: Craig B

Date of test: 03-27-2008

Temperature: 70 deg. F

Humidity: 26% R.H.

EIRP - Substitution Method

Model: Router Model: 0800-0364								
Channel: 18								
Frequency and Polarization (MHz)	Max. Field Strength of EUT @ 3 meters (dBuV/m)	Output of Signal Generator when field strength equals that of EUT (dBm)	Correction factor for cable between Signal Gen. and subst. antenna (dB)	Gain of subst. antenna (dBi)	Strength of emission [EIRP] (dBm)	Limit (dBm)	Margin (dB)	Strength of emission [EIRP] (mW)
2440 vertical	118.04	13.59	1.74	9.63	21.48	30.00	8.52	140.60
2440 horizontal	111.83	5.27	1.74	9.63	13.16	30.00	16.84	20.70

EIRP = Signal generator output - cable loss + antenna gain

ERP_(ref. to 1/2λ dipole) = Signal generator output - cable loss + antenna gain - 2.15



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

DLS Electronic Systems, Inc.

Company: RF Technologies

Operator: Craig B

Date of test: 03-27-2008

Temperature: 70 deg. F

Humidity: 26% R.H.

EIRP - Substitution Method

Model: Router Model: 0800-0364								
Channel: 25								
Frequency and Polarization (MHz)	Max. Field Strength of EUT @ 3 meters (dBuV/m)	Output of Signal Generator when field strength equals that of EUT (dBm)	Correction factor for cable between Signal Gen. and subst. antenna (dB)	Gain of subst. antenna (dBi)	Strength of emission [EIRP] (dBm)	Limit (dBm)	Margin (dB)	Strength of emission [EIRP] (mW)
2475 vertical	116.92	12.47	1.76	9.67	20.38	30.00	9.62	109.14
2475 horizontal	109.12	4.16	1.76	9.67	12.07	30.00	17.93	16.11

EIRP = Signal generator output - cable loss + antenna gain

ERP_(ref. to 1/2λ dipole) = Signal generator output - cable loss + antenna gain - 2.15



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

6 dB BANDWIDTH GRAPHS

PART 15.247



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

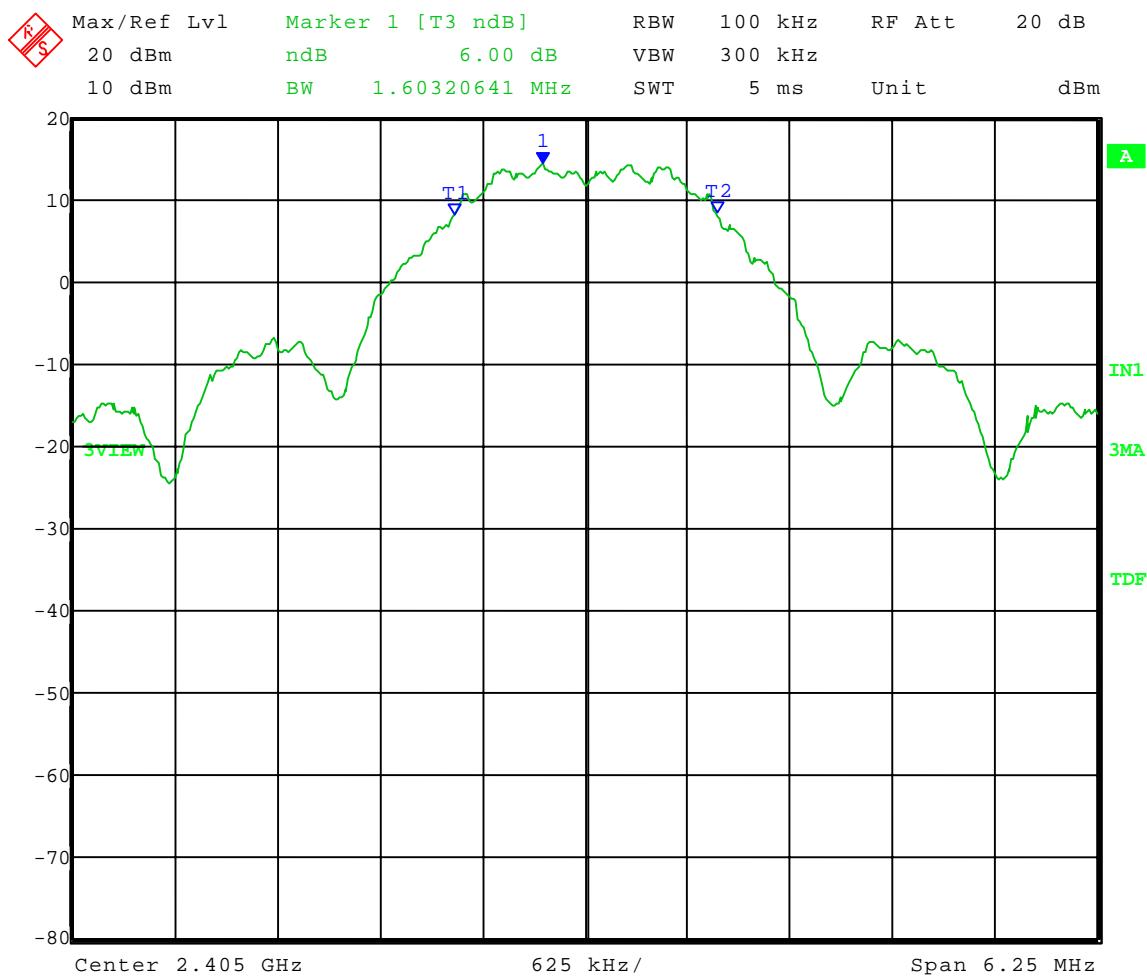
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: 6 dB Bandwidth - Conducted
Operator: Craig B

Comment: Low Channel: Frequency – 2.405 GHz

6 dB Bandwidth = 1.603 MHz





Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

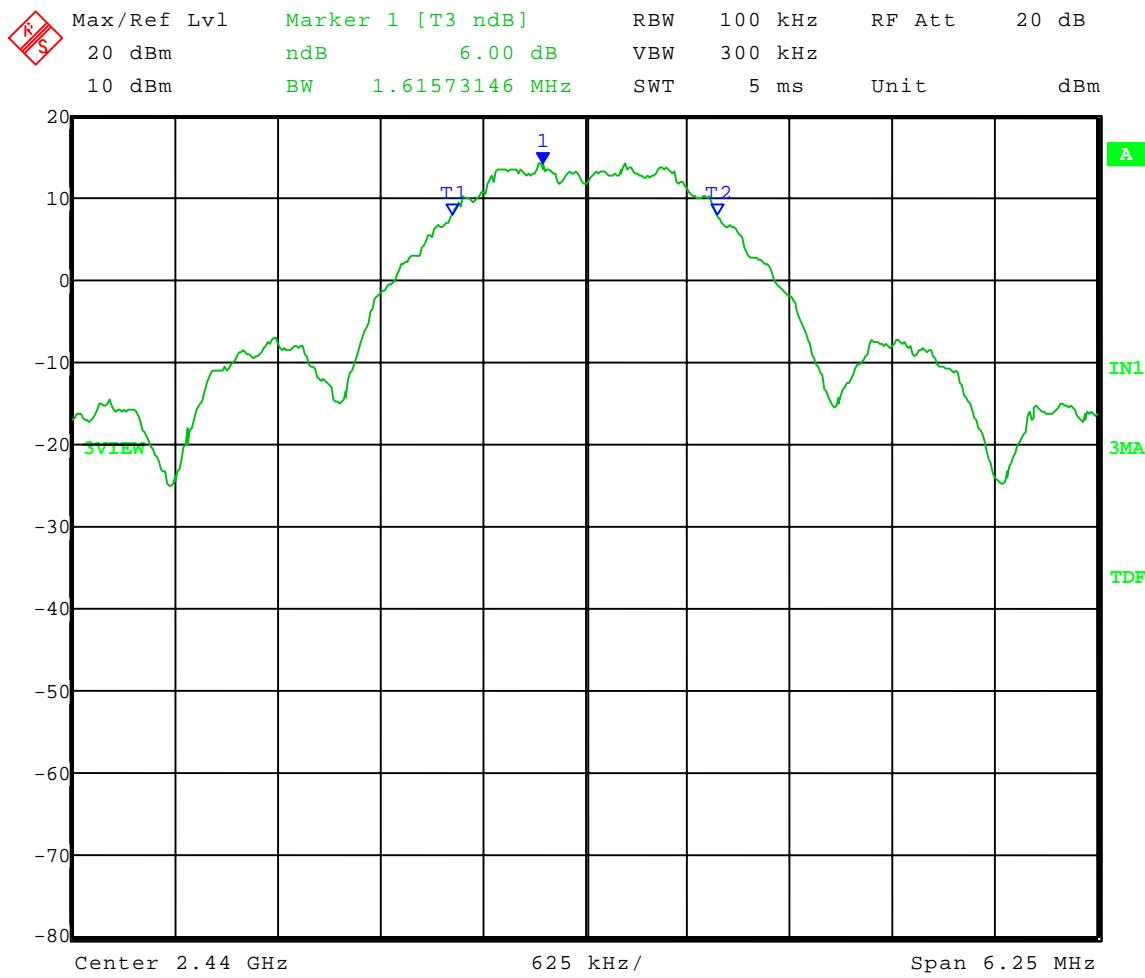
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: 6 dB Bandwidth - Conducted
Operator: Craig B

Comment: Middle Channel: Frequency – 2.440 GHz

6 dB Bandwidth = 1.616 MHz





Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

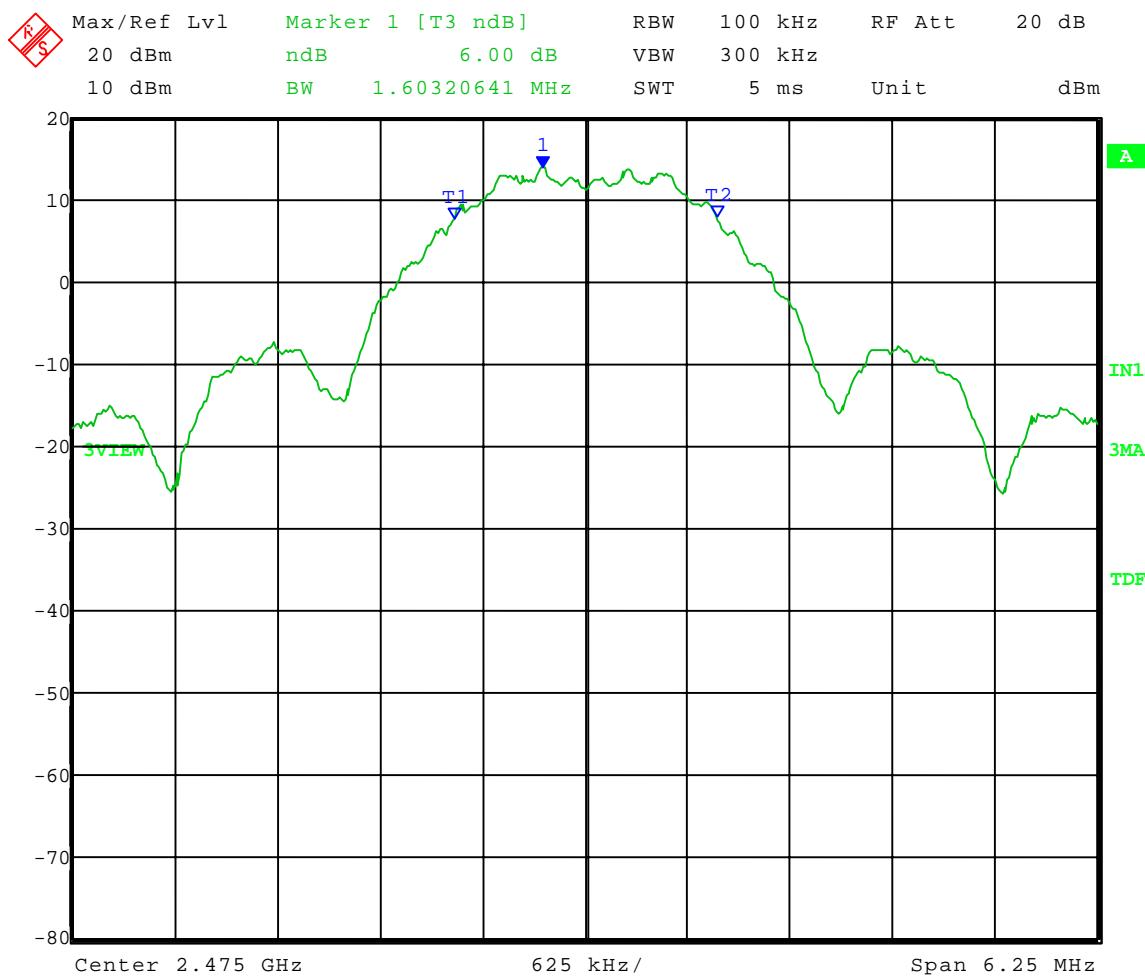
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: 6 dB Bandwidth - Conducted
Operator: Craig B

Comment: **High Channel: Frequency – 2.475 GHz**

6 dB Bandwidth = 1.603 MHz





Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

DUTY CYCLE OF NORMAL UNIT GRAPH(S)

PART 15.247



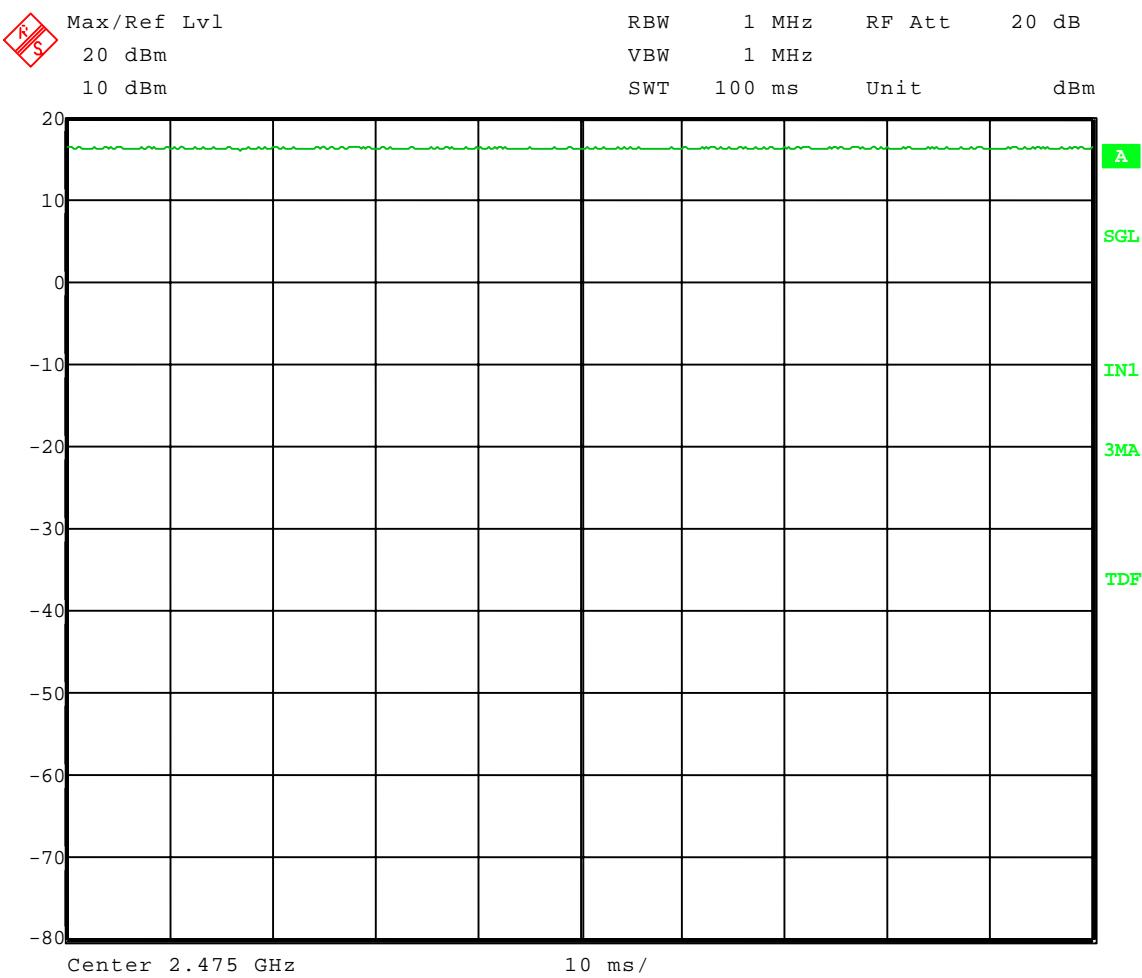
Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Duty Cycle – duty cycle used during testing (special test software)
Operator: Craig B

Comment: Continuous transmit; 100 ms sweep:
Duty cycle = 100%



Date: 28.MAR.2008 11:03:38

Max duty cycle during normal use



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

MAX DUTY CYCLE DURING NORMAL USE GRAPH(S)

PART 15.247

RF Technologies Zigbee system - calculation of worst case transmit duty cycle for FCC testing

An RFT Zigbee system is composed of a Gateway (Coordinator), Routers, and End-devices (Pendant, Pullcord, Universal, etc). Based on usage of the Zigbee 2006 stack and the Home Automation stack profile, the self-forming network can contain a theoretical maximum of 1 Gateway, 1554 Routers, and 21756 end-devices (see figure 1).

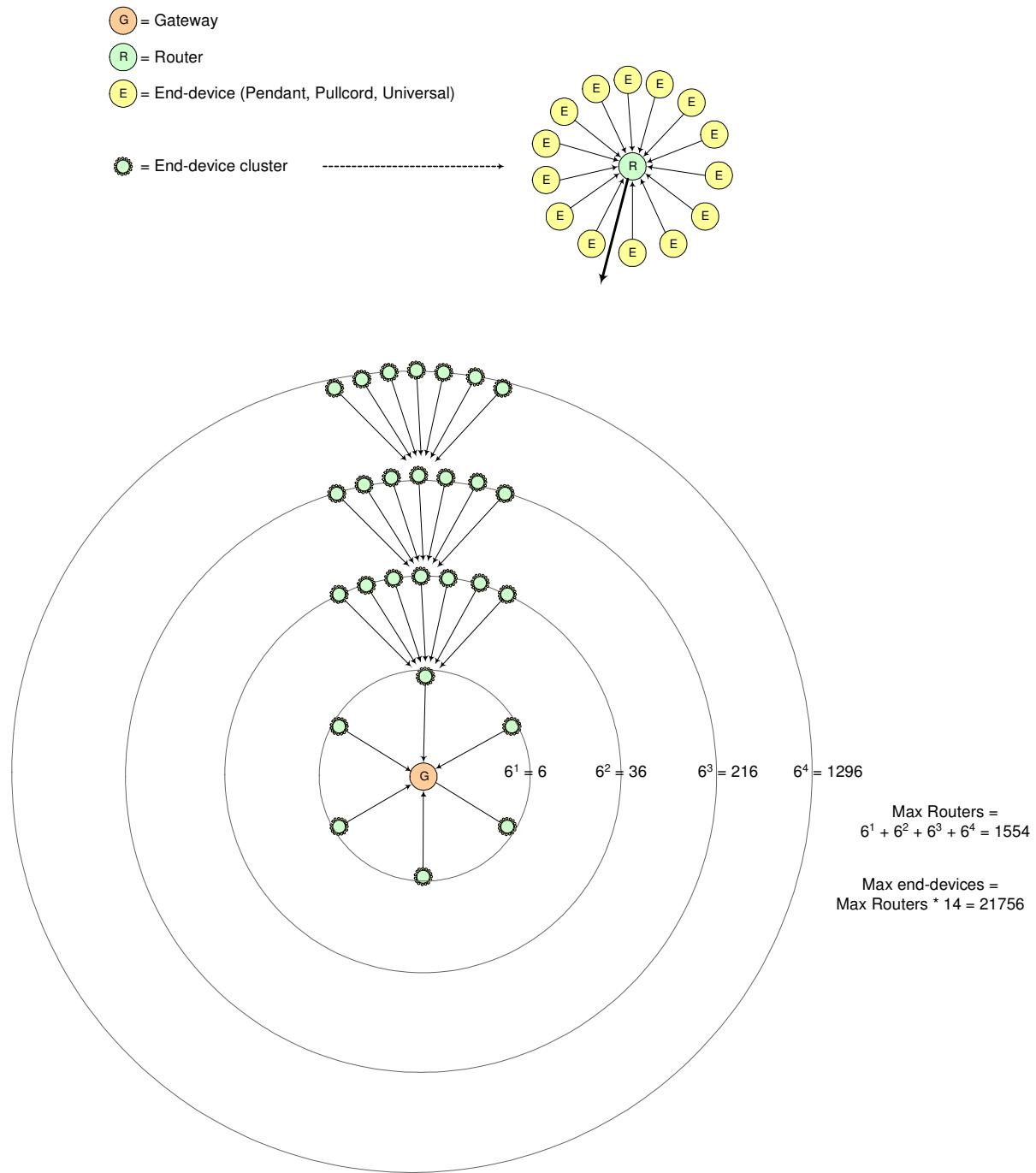


Figure 1: Zigbee system

In the RFT application, since each device periodically sends a message to the PC, the Routers located at the innermost ring of Figure 1 become a communication choke point and the site of the highest transmit duty cycle.

Transmit activity of a Router at this choke point consists almost entirely of two packet types; type A; a packet with a worst-case duration of 1.83mS (see Figure 2 - this is a forwarded deviceStatus message from an ‘upstream’ device) and type B; a packet with a duration of 360uS (see figure 2 - this is an acknowledge sent back to the ‘upstream’ device).

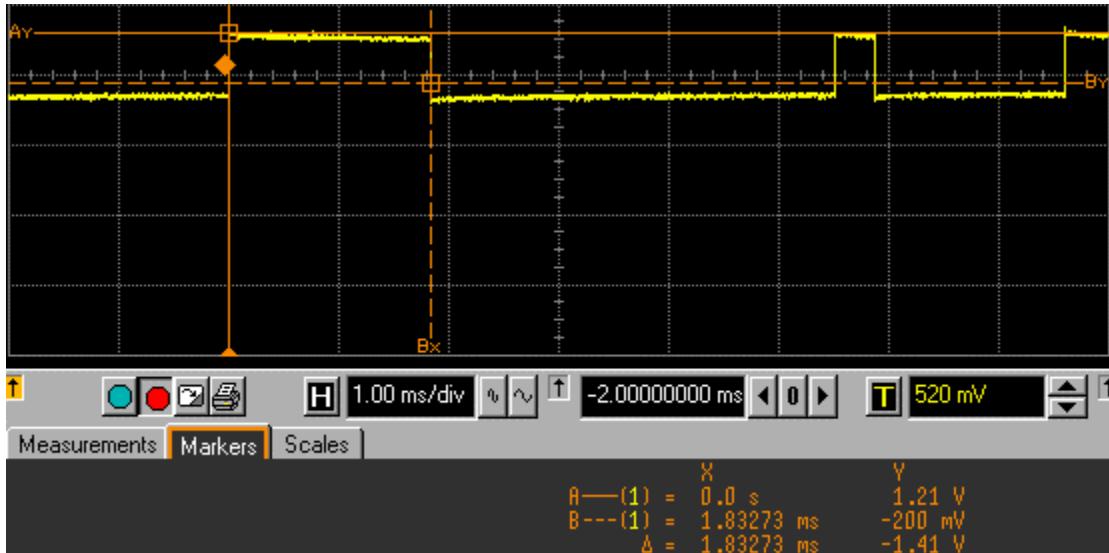


Figure 2: packet type A - transmit duration

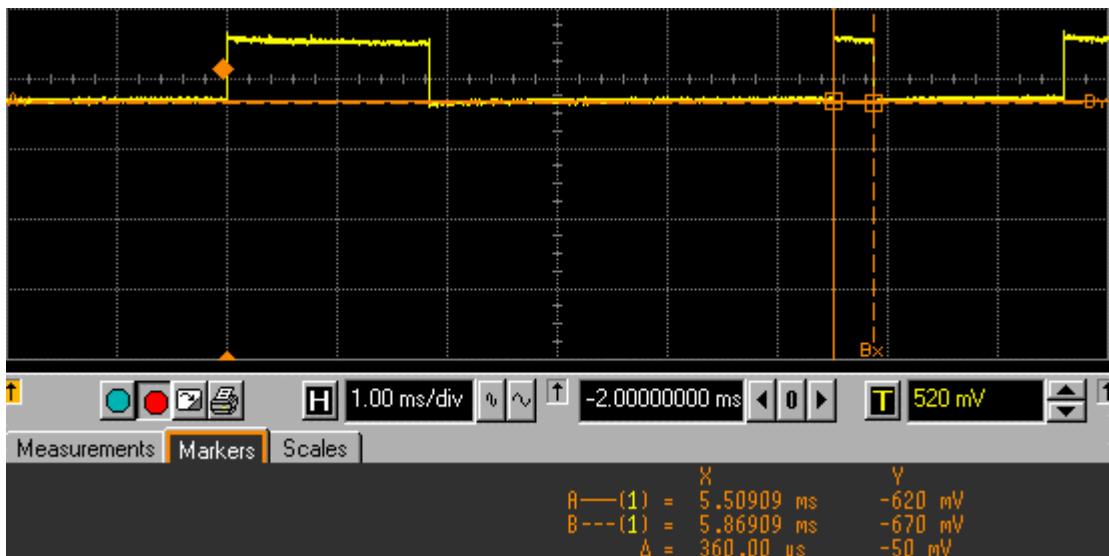


Figure 3: packet type B - transmit duration

A small system was constructed to simulate a much larger system and determine the maximum transmit duty cycle empirically. The system - shown in Figure 4 - consists of 5 Routers with an accelerated transmit rate, a choke-point Router, and one Gateway.

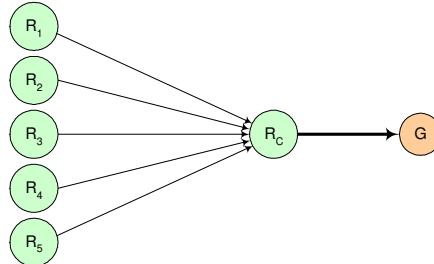


Figure 4: test system

Routers R_1 through R_5 are programmed to transmit ‘type A’ packets to R_C (the Choke-point Router). R_C then forwards all packets to the Gateway. R_1 through R_5 are programmed to transmit the ‘type A’ packet as frequently as they can (about 100/sec; every 10mS) to simulate the traffic of many ‘upstream’ devices. Since each Router can transmit 1.83mS every 10mS, only 5 Routers transmitting at this rate are required to generate the maximum traffic load to R_C . In practice, the packets from 5 Routers are not back-to-back due to carrier sense multiple access/collision avoidance (CSMA/CA) mechanism implemented in the devices. Since it is not clear when the CSMA/CA mechanism begins to limit the maximum transmit duty cycle, several measurements were taken with the test system using one message generating Router, then two, three, four, and five. The measurements and resulting maximum transmit duty cycle for each test case is included below.

One Router

The 200mS capture shown in Figure 5 contains 17 type-A packets and 17 type-B packets. Since all type-A packets transmit for 1.83mS and all type-B packets transmit for 360uS, the total transmit time 37.23mS, resulting in a transmit duty cycle of 18.6%.

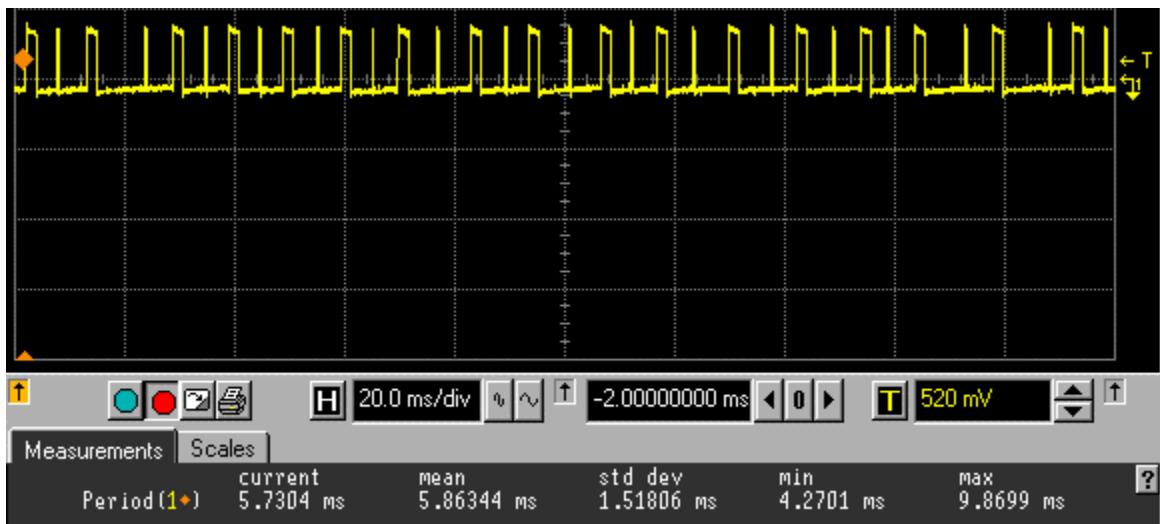


Figure 5: Choke-point Router transmit activity - with one message generating Router

Two Routers

The 200mS capture shown in Figure 6 contains 18 type-A packets and 16 type-B packets, resulting in a total transmit time of 38.70mS and 19.4% transmit duty cycle.

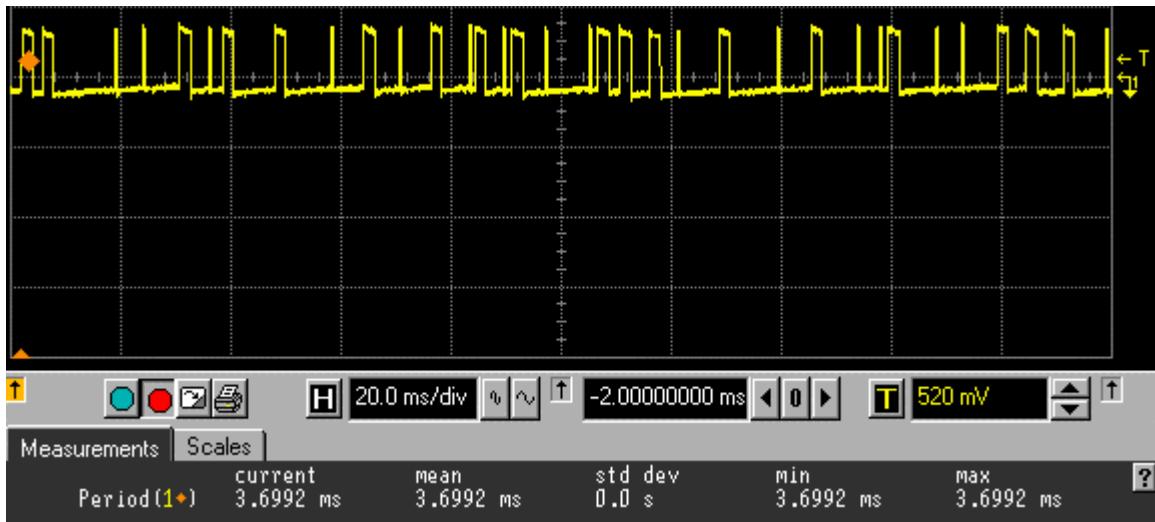


Figure 6: Choke-point Router transmit activity - with two message generating Routers

Three Routers

The 200mS capture shown in Figure 7 contains 19 type-A packets and 20 type-B packets, resulting in a total transmit time of 41.97mS and 20.9% transmit duty cycle.

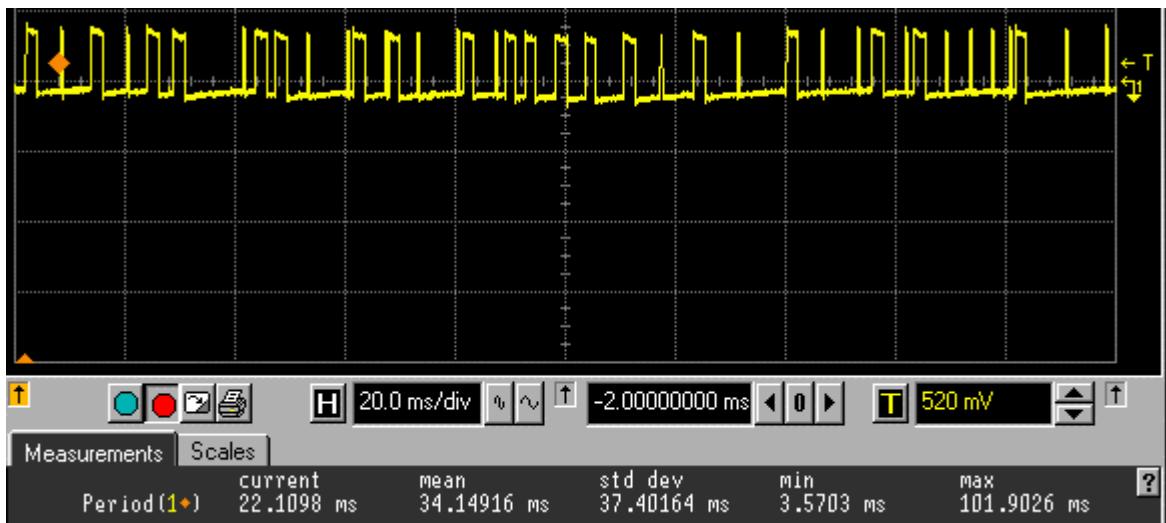


Figure 7: Choke-point Router transmit activity - with three message generating Routers

Four Routers

The 200mS capture shown in Figure 8 contains 14 type-A packets and 28 type-B packets, resulting in a total transmit time of 24.72mS and 12.4% transmit duty cycle.

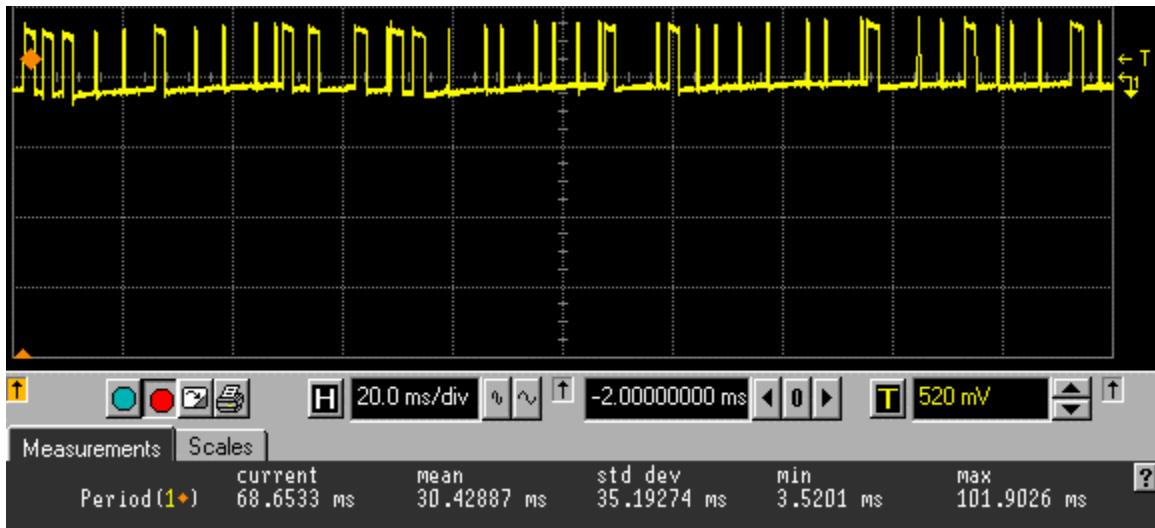
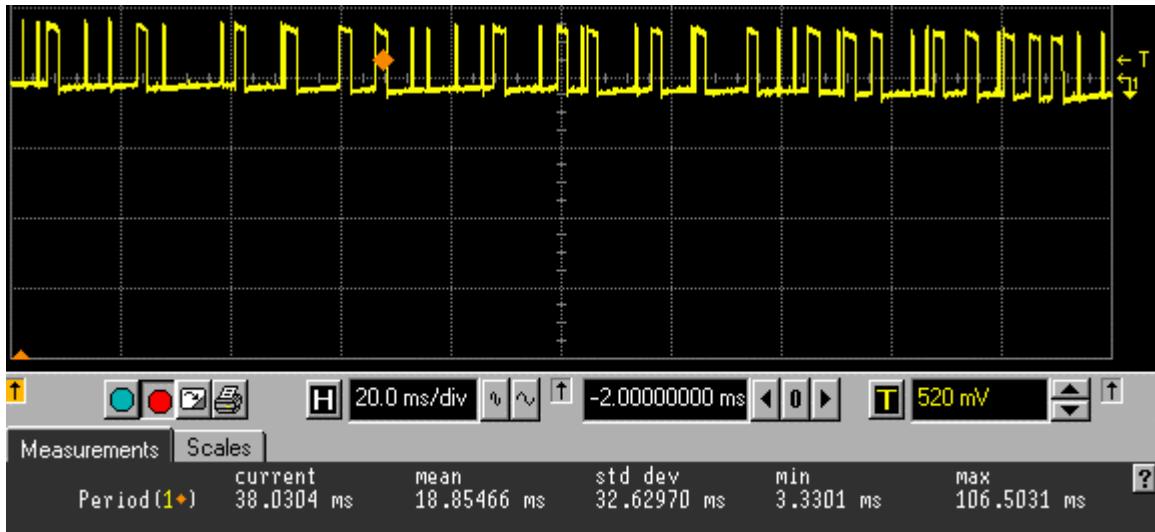


Figure 8: Choke-point Router transmit activity - with four message generating Routers

Five Routers

The 200mS capture shown in Figure 8 contains 20 type-A packets and 23 type-B packets, resulting in a total transmit time of 44.88mS and 22.4% transmit duty cycle.



The transmit duty cycle appears to become less repeatable with a larger number of message generating Routers ... likely due to the CSMA/CA mechanism. Table 1 contains a summary of the transmit duty cycle calculations from above. The table also contains some additional measurements (marked with an asterisk in the capture # column) that were taken for a measure of repeatability.

Table 1: Transmit duty cycle measurements

# Routers	Capture #	Number of 'Type A' packets	Number of 'Type B' packets	Transmit time (mS)	Duty cycle (%)
1	1	17	17	37.23	18.6
1	2*	17	18	37.59	18.8
1	3*	17	18	37.59	18.8
2	1	18	16	38.70	19.4
2	2*	19	23	43.05	21.5
3	1	19	20	41.97	20.9
3	2*	11	41	34.89	17.4
3	3*	10	36	31.26	15.6
4	1	14	28	24.72	12.4
4	2*	12	39	36.00	18.0
4	3*	10	31	29.46	14.7
5	1*	14	26	34.98	17.5
5	2	20	23	44.88	22.4
5	3*	8	34	26.88	13.4
5	4*	8	32	26.16	13.1
5	5*	10	37	31.62	15.8
5	6*	10	32	29.82	14.9
5	7*	10	33	30.18	15.1
5	8*	7	33	24.69	12.3

Conclusion

Based on measurements above, the highest transmit duty cycle encountered will be 22.4%.



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

NUMBER OF HOPPING FREQUENCIES GRAPH(S)

PART 15.247



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

RF TECHNOLOGIES™

3125 N. 126th St. Brookfield, WI 53005

1-800-669-9946 Ph: 262-790-1771

Fx: 262-790-1784

info@rft.com

www.rft.com

Product Name: Router
Owner: RF Technologies, Inc.
Owner Model Number: 0800-0364
FCC ID Number: KXU-RT2CCZ24

List of 15 frequencies (channels) used by the RF Technologies Router.

All Zigbee radios use IEEE 802.15.4, which specifies the channels to use. They start at 2405 MHz and are separated by 5 MHz. Therefore the channels are as follows:

2405
2410
2415
2420
2425
2430
2435
2440
2445
2450
2455
2460
2465
2470
2475



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

CONDUCTED PEAK OUTPUT POWER GRAPHS

PART 15.247



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

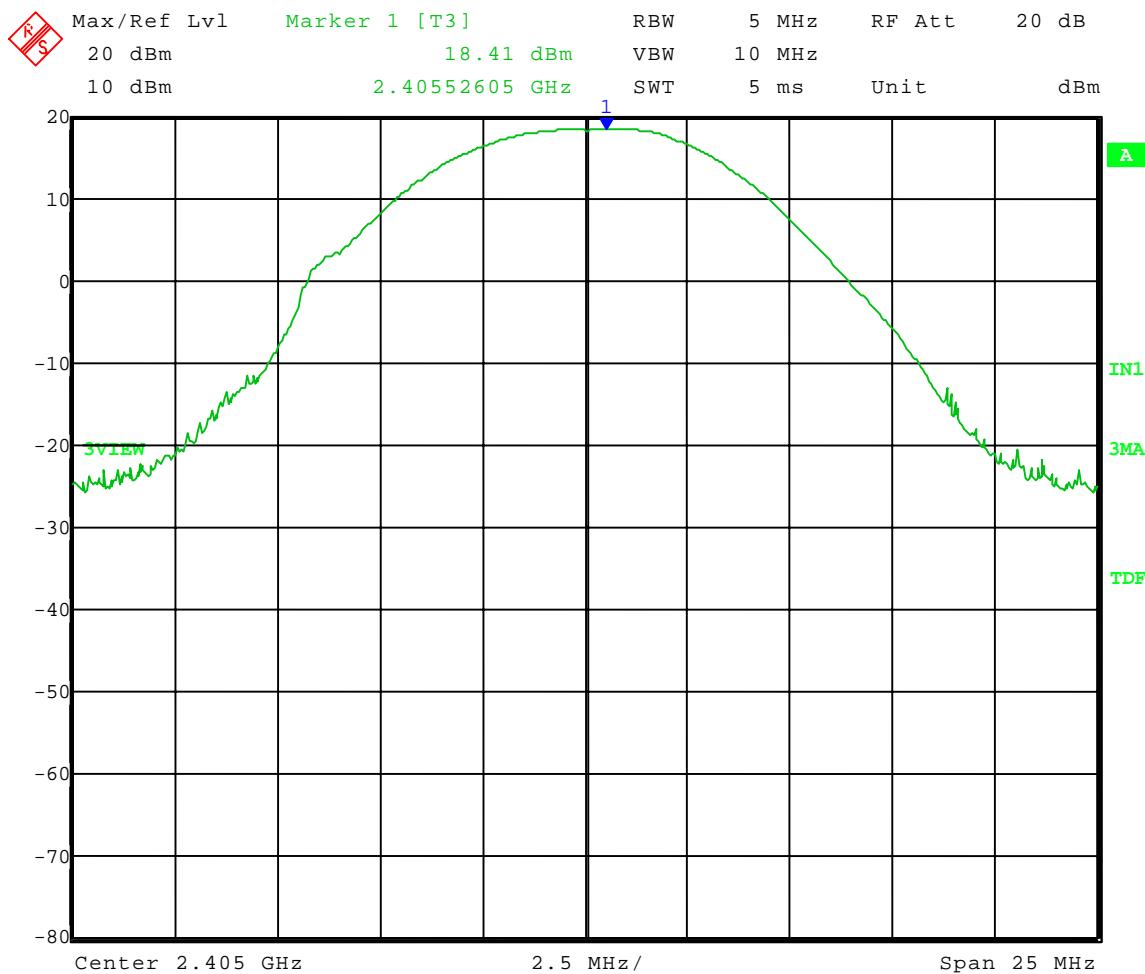
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Peak Power Output - Conducted
Operator: Craig B

Comment: Low Channel: Frequency – 2.405 GHz

Peak Output Power = 18.41 dBm = **69.34 mW**



Date: 28.MAR.2008 09:17:13



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

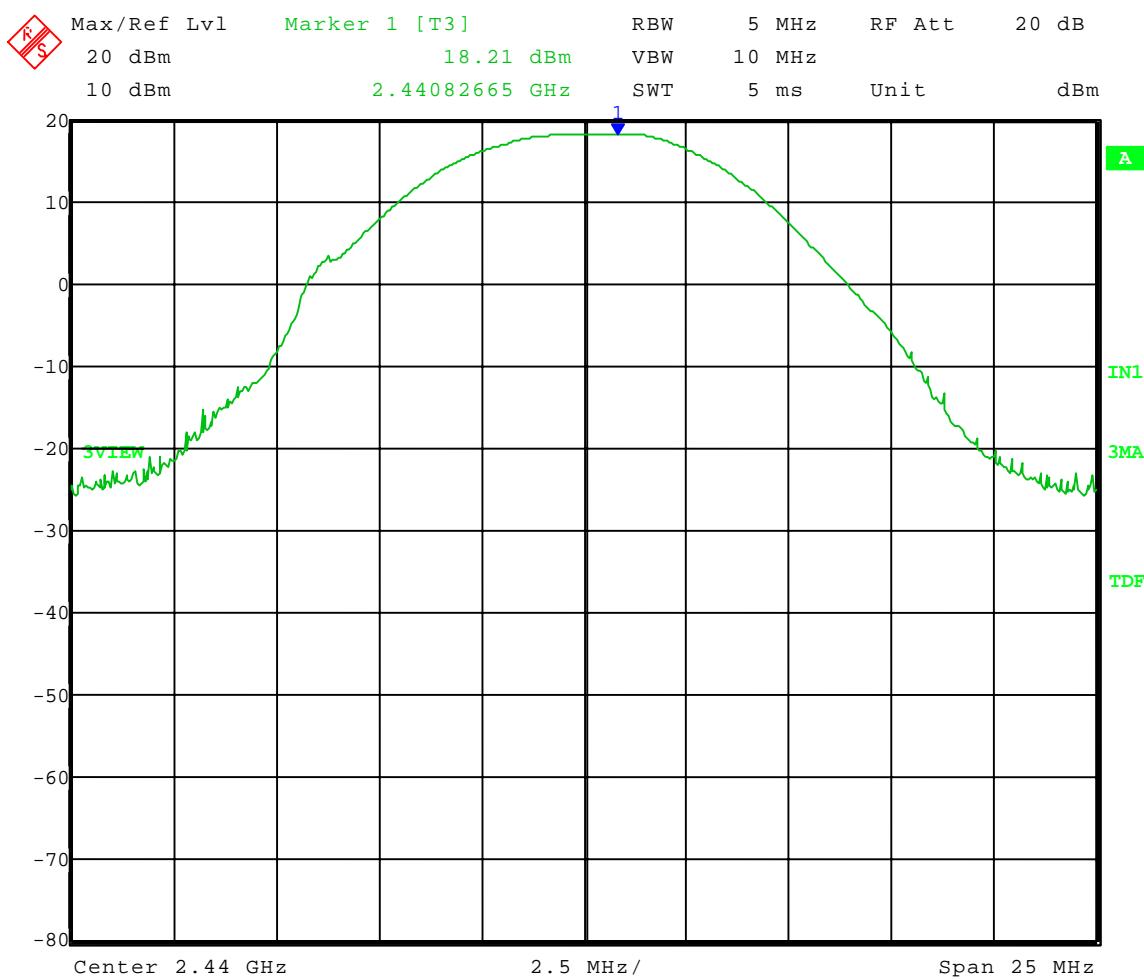
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Peak Power Output - Conducted
Operator: Craig B

Comment: Middle Channel: Frequency – 2.440 GHz

Peak Output Power = 18.21 dBm = **66.22 mW**



Date: 28.MAR.2008 09:50:51



Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

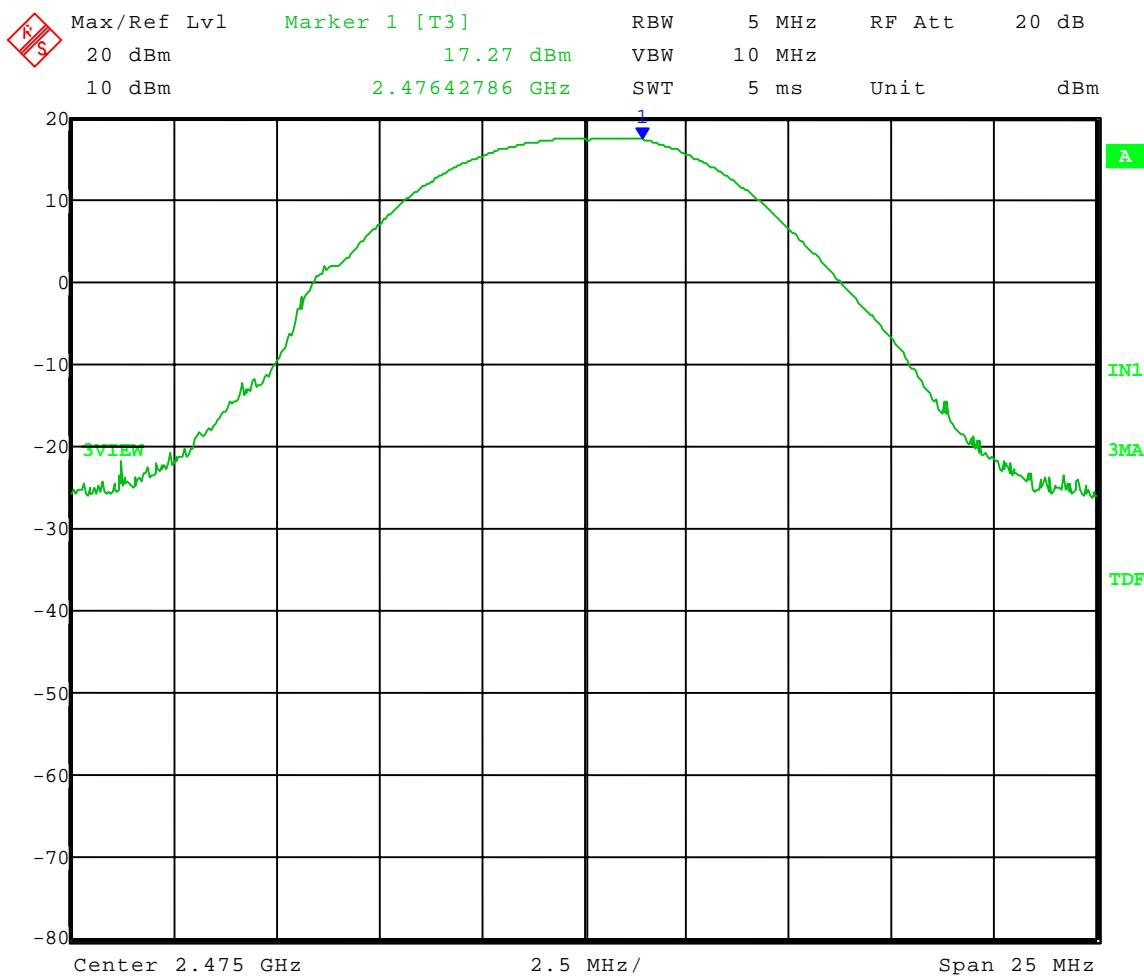
1250 Peterson Dr., Wheeling, IL 60090

APPENDIX A

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Peak Power Output - Conducted
Operator: Craig B

Comment: **High Channel: Frequency – 2.475 GHz**

Peak Output Power = 17.27 dBm = **53.33 mW**





1250 Peterson Dr., Wheeling, IL 60090

Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

PEAK POWER SPECTRAL DENSITY GRAPHS

PART 15.247

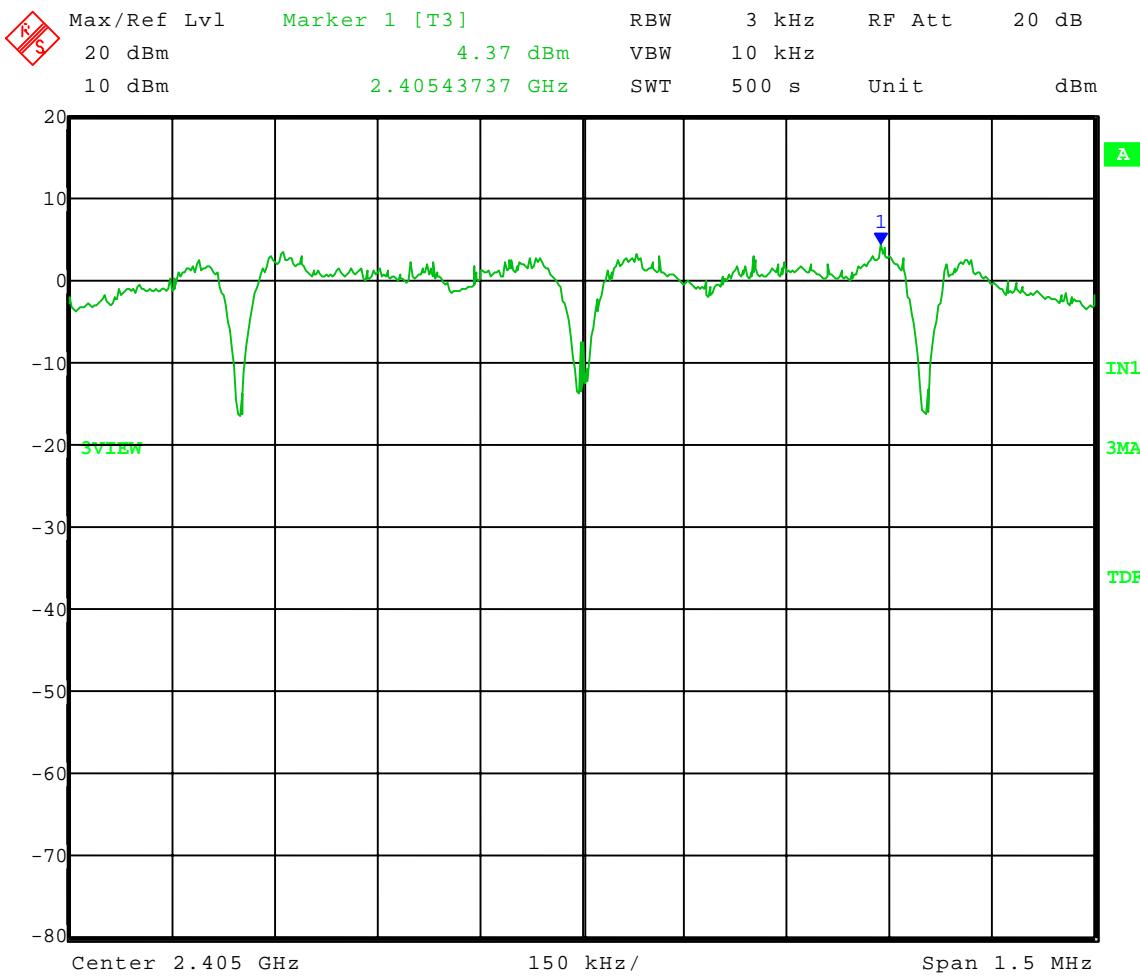


1250 Peterson Dr., Wheeling, IL 60090

Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Peak Power Spectral Density - Conducted
Operator: Craig B
Comment: Low Channel: Frequency - 2.405 GHz
Limit: 8 dBm

3 kHz Bandwidth: 4.37 dBm



Date: 28.MAR.2008 09:37:07

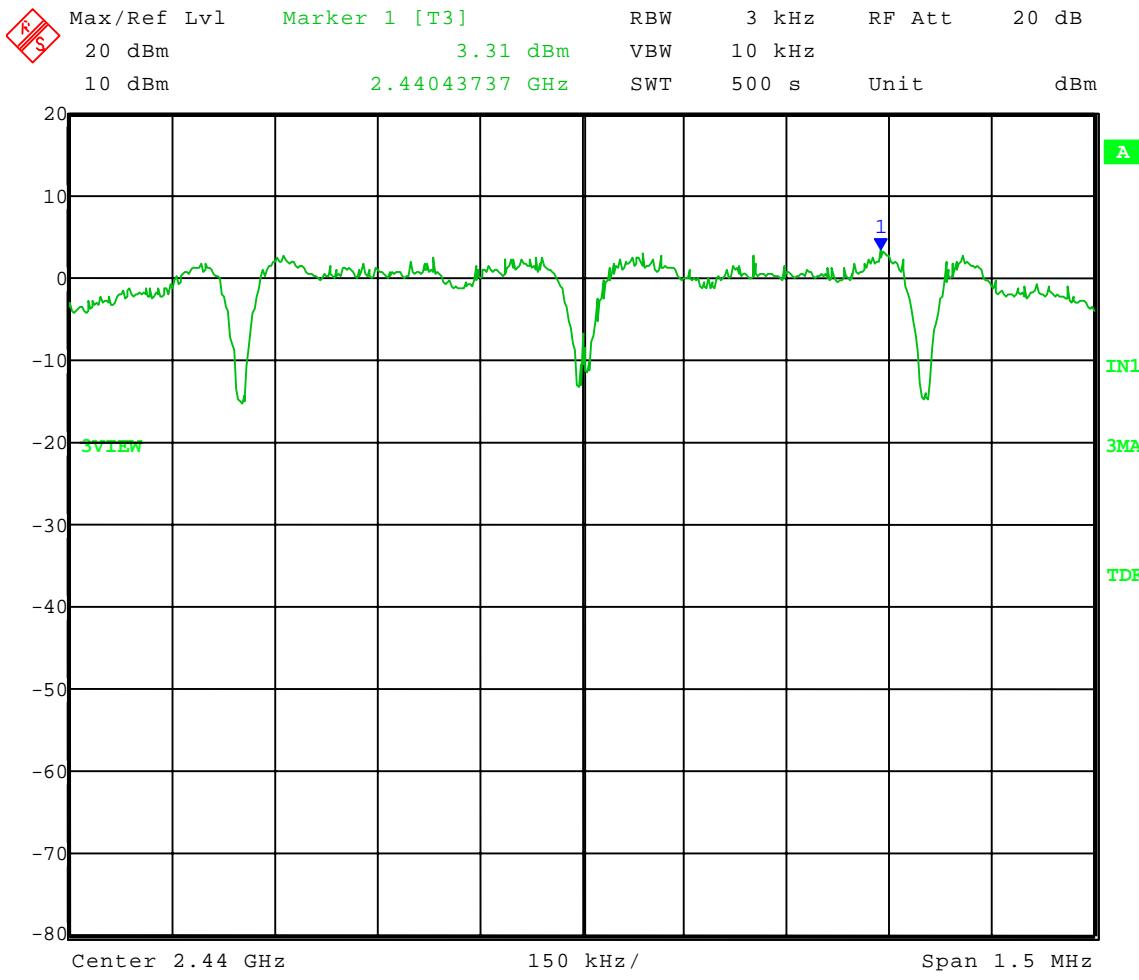


1250 Peterson Dr., Wheeling, IL 60090

Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Peak Power Spectral Density - Conducted
Operator: Craig B
Comment: Middle Channel: Frequency - 2.440 GHz
Limit: 8 dBm

3 kHz Bandwidth: 3.31 dBm



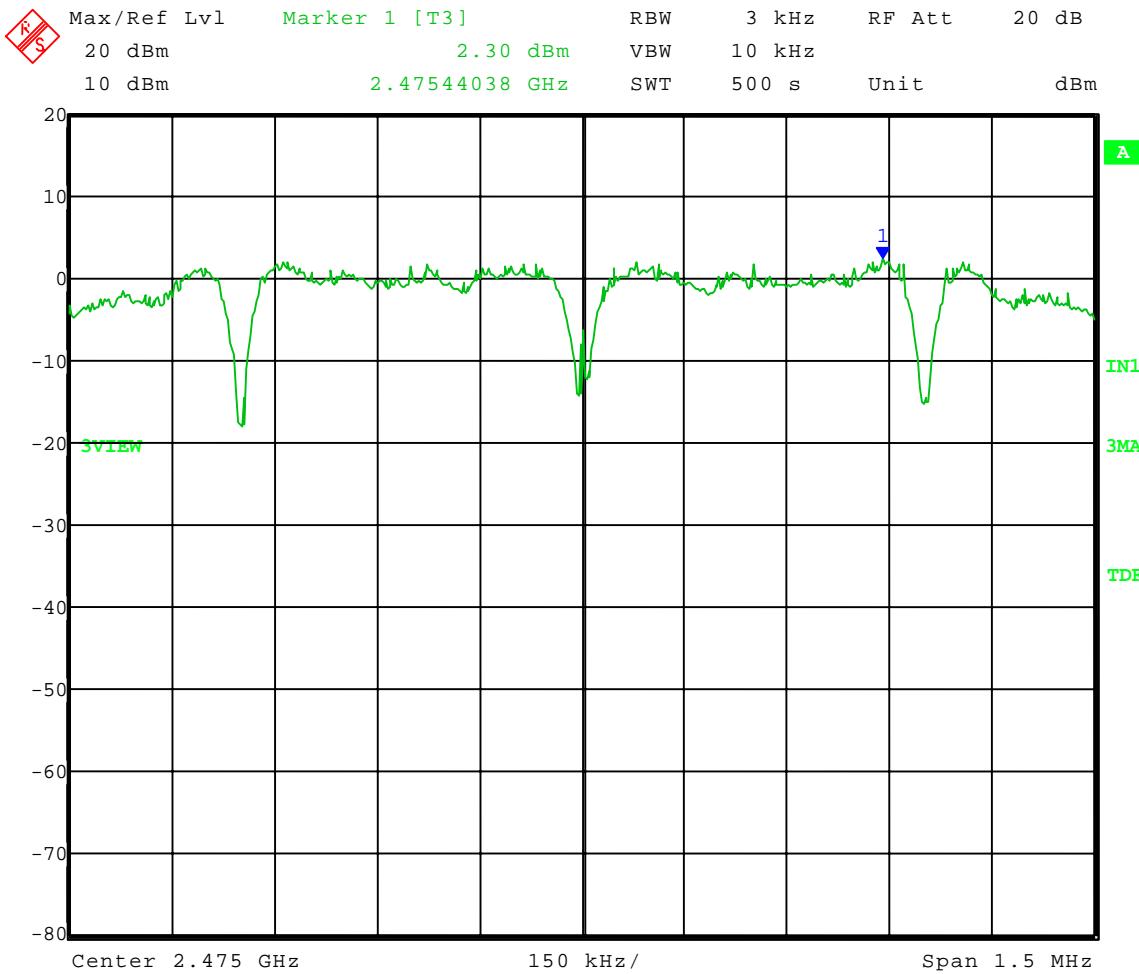


1250 Peterson Dr., Wheeling, IL 60090

Company: RF Technologies, Inc.
Model Tested: 0800-0364
Report Number: 14055

Test Date: 03-28-2008
Company: RF Technologies
EUT: Router Model: 0800-0364
Test: Peak Power Spectral Density - Conducted
Operator: Craig B
Comment: High Channel: Frequency – 2.475 GHz
Limit: 8 dBm

3 kHz Bandwidth: 2.30 dBm



Date: 28.MAR.2008 10:46:21