

**Justification**

The individuals and/or the organization requesting the test provided the modes, configurations and settings available to evaluate. While scanning the radiated emissions, all of the EUT parameters listed below were investigated. This includes, but may not be limited to, antennas, tuned transmit frequency ranges, operating modes, and data rates.

**Channels in Specified Band Investigated:**

Low

Mid

High

**Operating Modes Investigated:**

Return Link (No Hop, FHSS)

Forward Link (DSSS)

**Data Rates Investigated:**

Maximum

**Output Power Setting(s) Investigated:**

Maximum

**Power Input Settings Investigated:**

120 VAC, 60 Hz.

**Software\Firmware Applied During Test**

Exercise software	MSAssist	Version	V4.3.1
Description			
The system was tested using special software developed to test all functions of the device during the test.			

**EUT and Peripherals**

Description	Manufacturer	Model/Part Number	Serial Number
2.4 GHz RFID Reader (EUT)	IDmicro	IDM4120R	32695
EUT Power Supply	Power General	CPA3-40-5290	none
Notebook PC	Hewlett Packard	HP Pavilion	TW02602673
Notebook Power Supply	EDAC	EA1060B	none

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	PA	2.0	PA	EUT Power Supply	AC Mains
DC Power	PA	2.0	PA	EUT Power Supply	2.4 GHz RFID Reader (EUT)
AC Power	PA	2.0	PA	Notebook Power Supply	AC Mains
DC Power	PA	2.0	PA	Notebook Power Supply	Notebook PC
Serial	Yes	1.6	No	Notebook PC	2.4 GHz RFID Reader (EUT)
Serial	Yes	1.6	No	2.4 GHz RFID Reader (EUT)	Unterminated

**PA** = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

Measurement Equipment					
Description	Manufacturer	Model	Identifier	Last Cal	Interval
Spectrum Analyzer	Tektronix	2784	AAO	02/26/2003	24 mo

### Test Description

**Requirement:** Per 47 CFR 15.247(d), in any 100 kHz bandwidth outside the authorized band, the maximum level of radio frequency power must be at least 20dB down from the highest emission level within the authorized band. The measurement is made with the spectrum analyzer's resolution bandwidth set to 100 kHz, and the video bandwidth set to greater than or equal to the resolution bandwidth.

**Configuration:** The spurious RF conducted emissions were measured with the EUT set to low, medium, and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting in a no hop mode, and then the test was repeated with the EUT transmitting in a DSSS mode. For each transmit frequency, the spectrum was scanned throughout the specified frequency. The measurement was repeated for each of the six transmit antenna ports.

Completed by:

## EMISSIONS DATA SHEET

EUT: 2.4 GHz RFID Reader	Work Order: IDMI0005
Serial Number: 32695	Date: 11/03/04
Customer: Idmicro, INC.	Temperature: 68
Attendees: Tom Kearns	Humidity: 40%
Customer Ref. No.: N/A	Power: 120VAC/60Hz
	Job Site: EV06

## TEST SPECIFICATIONS

**Specification:** 47 CFR 15.247(d)      **Year:** 2004      **Method:** DA 00-705, ANSI C63.4      **Year:** 2003

## SAMPLE CALCULATIONS

## COMMENTS

Measurement made at TX1 Antenna Port

## **FET OPERATING MODES**

## EUT OPERATING MODES

#### DEVIATIONS FROM TEST STANDARD

DEVIATION  
N

None

**REQUIREMENTS** [View Details](#) [Edit](#) [Delete](#) [Import](#) [Export](#) [Print](#) [Email](#)

## Maximum

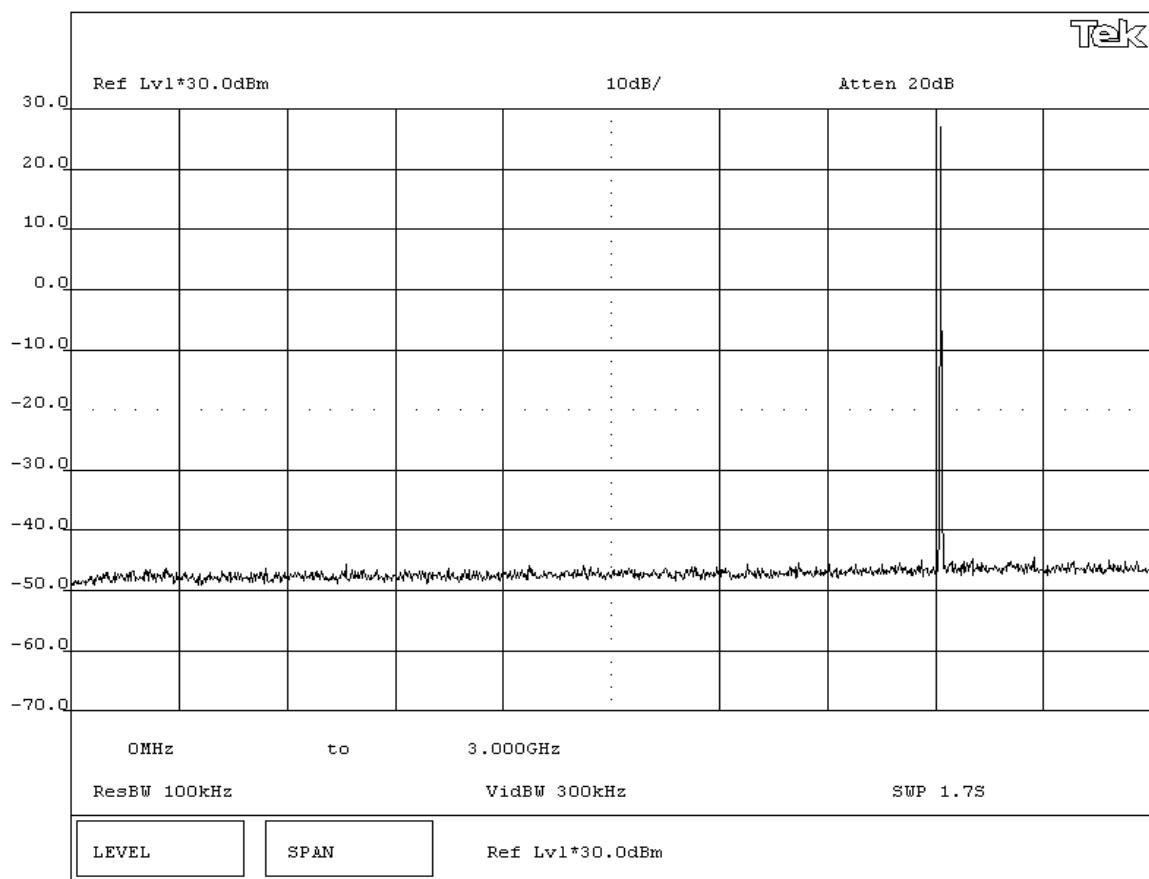
RESU

Pass

Tested By: W

#### DESCRIPTION OF TEST

## Antenna Conducted Spurious Emissions - Low Channel 0MHz-3GHz

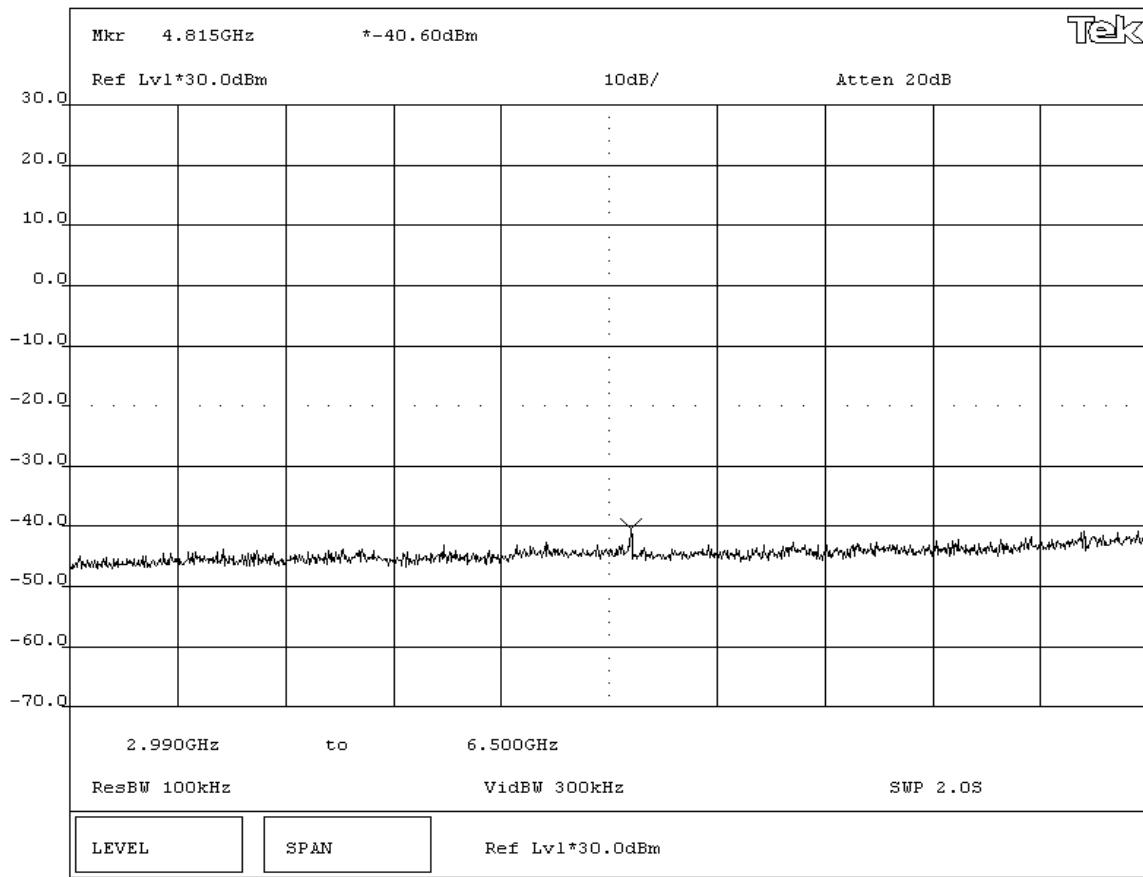


NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX1 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

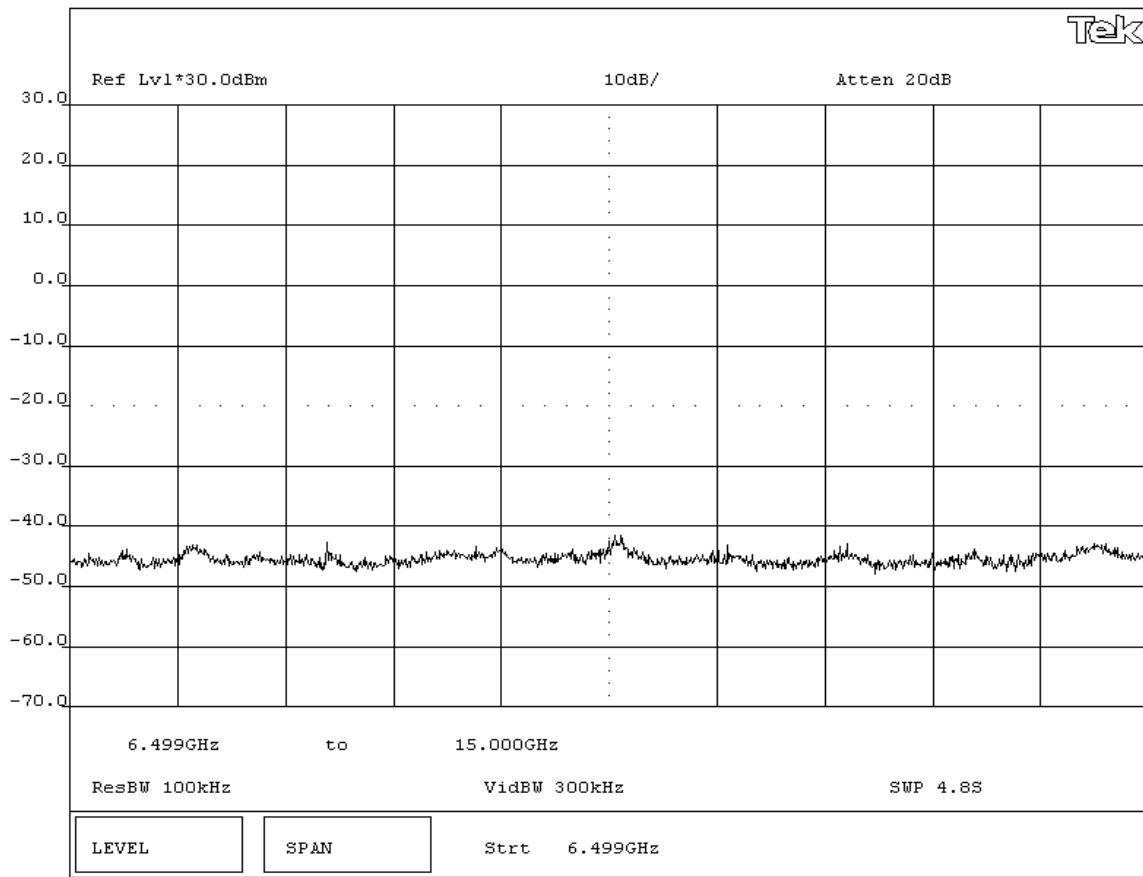
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX1 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

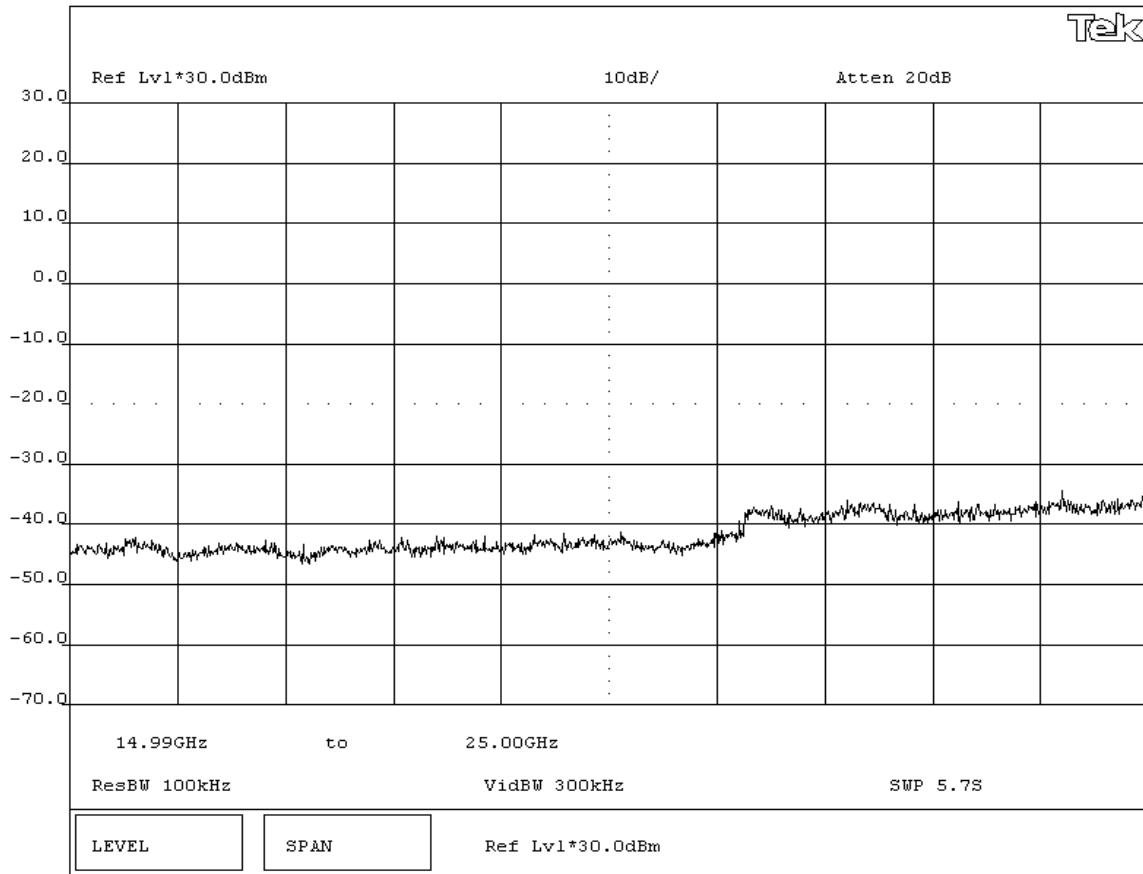
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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX1 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 15GHz - 25GHz					



KNOB 2

KNOB 1

KEYPAD

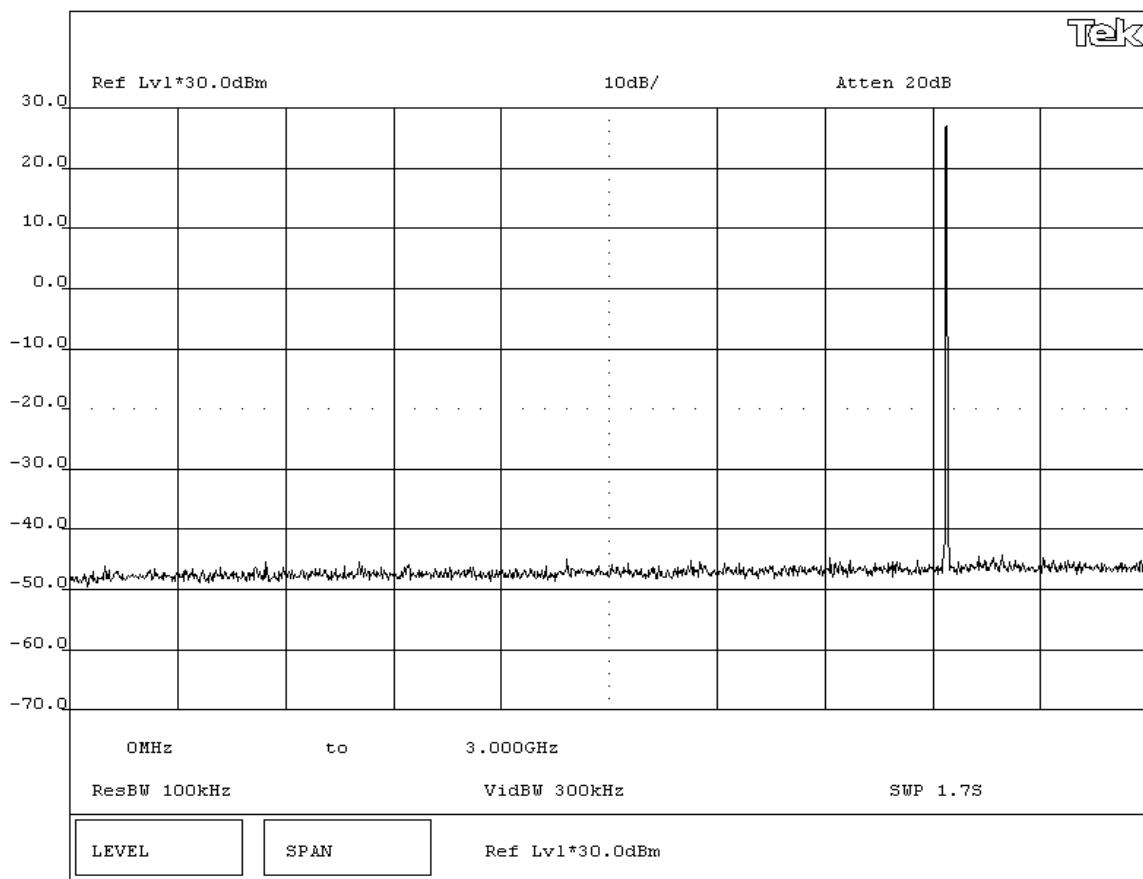
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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX1 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 0MHz-3GHz					



KNOB 2

KNOB 1

KEYPAD

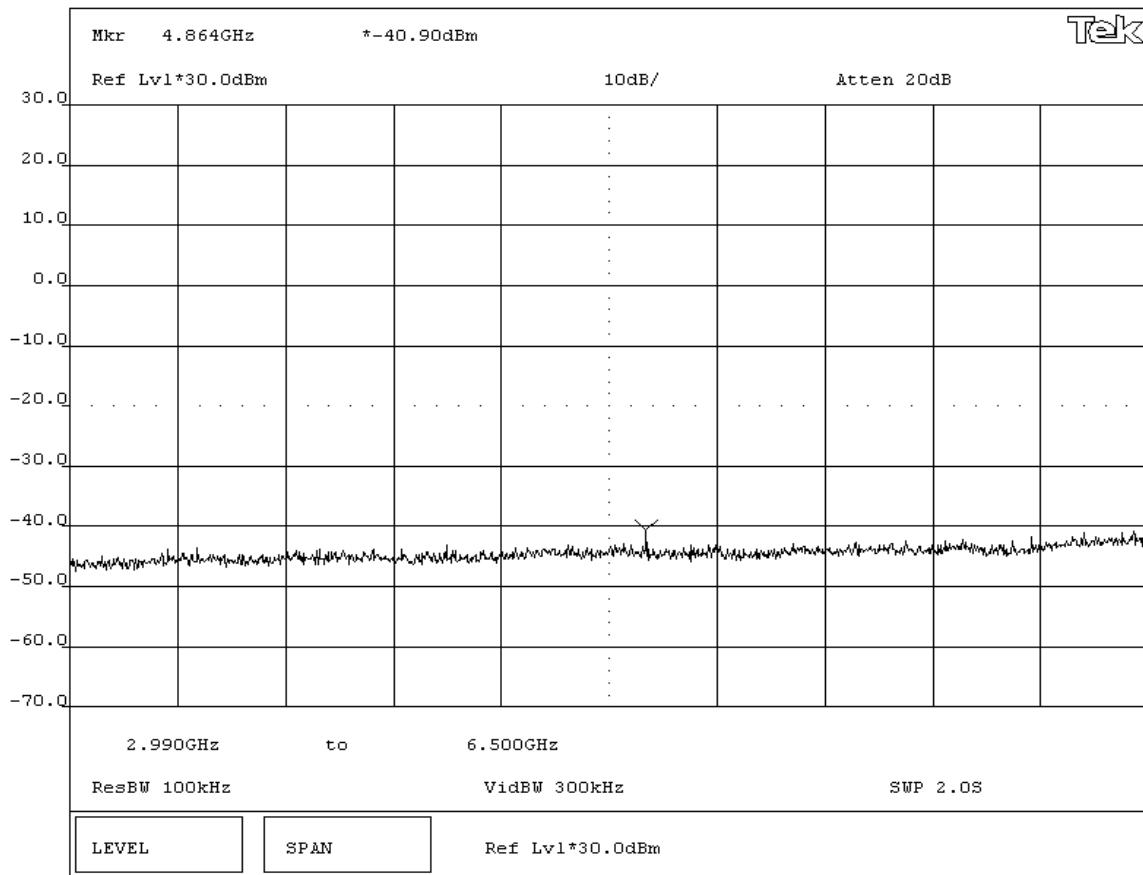
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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX1 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

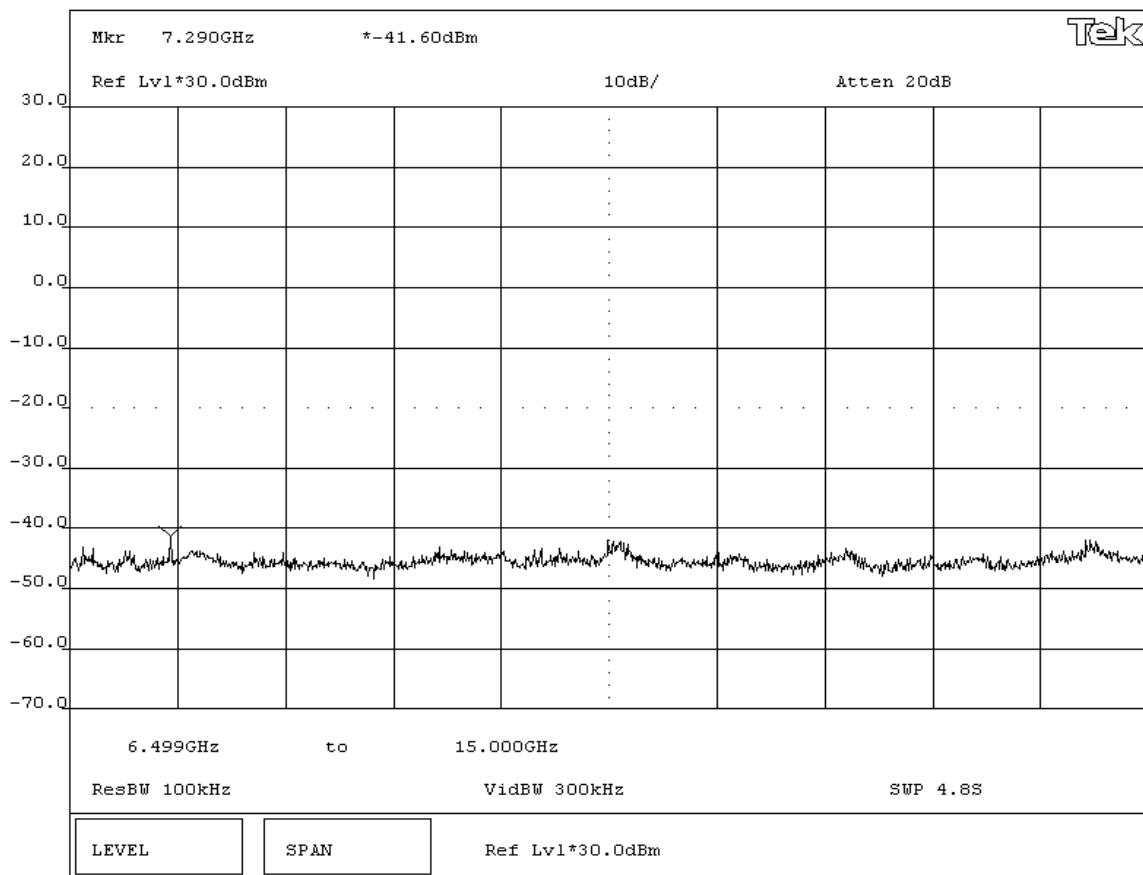
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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX1 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

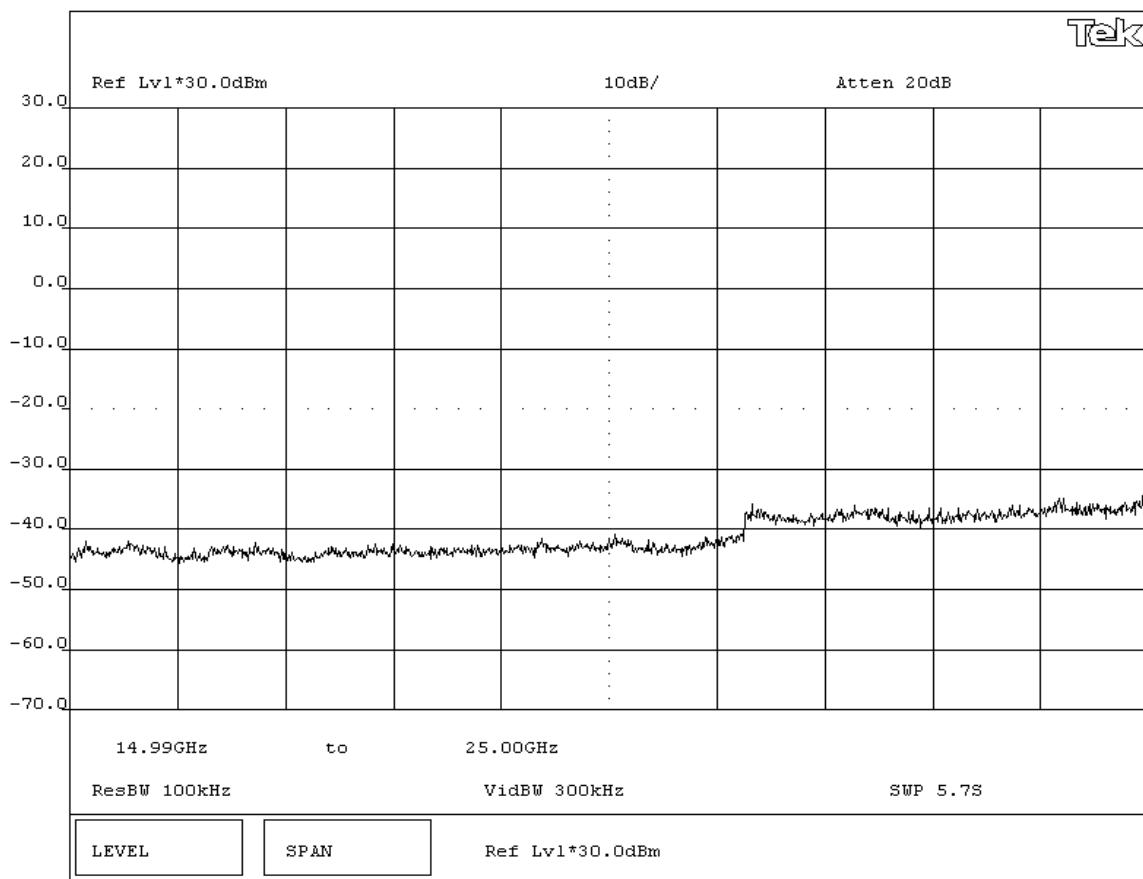
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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX1 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz					



KNOB 2

KNOB 1

KEYPAD

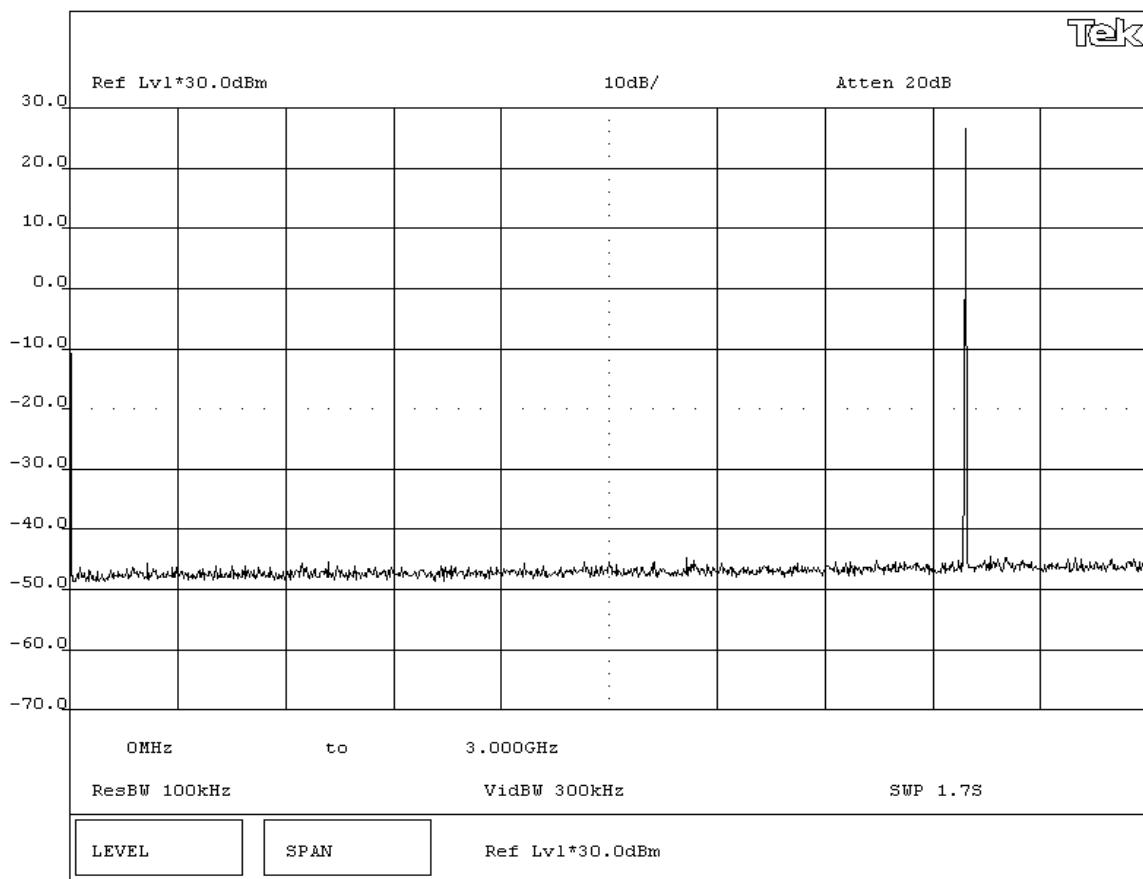
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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX1 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz					



KNOB 2

KNOB 1

KEYPAD

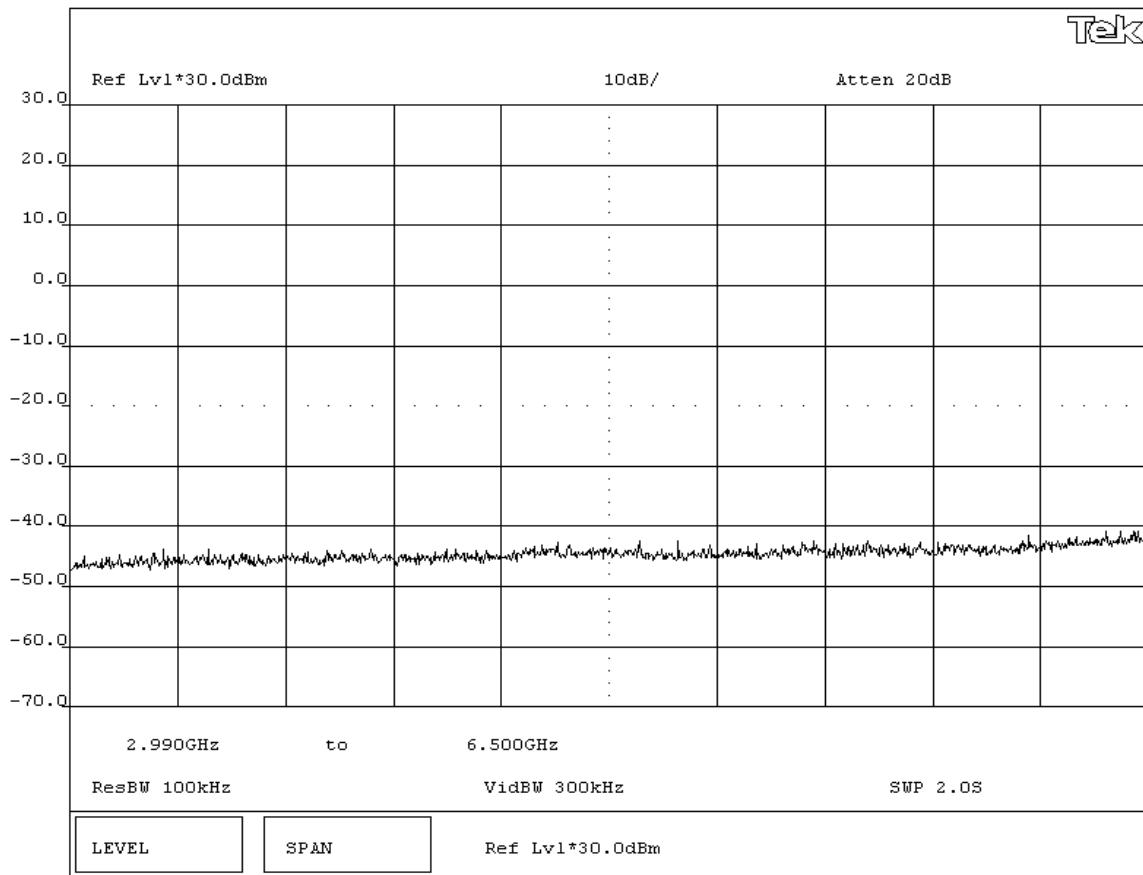
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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX1 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
Tested By: 					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

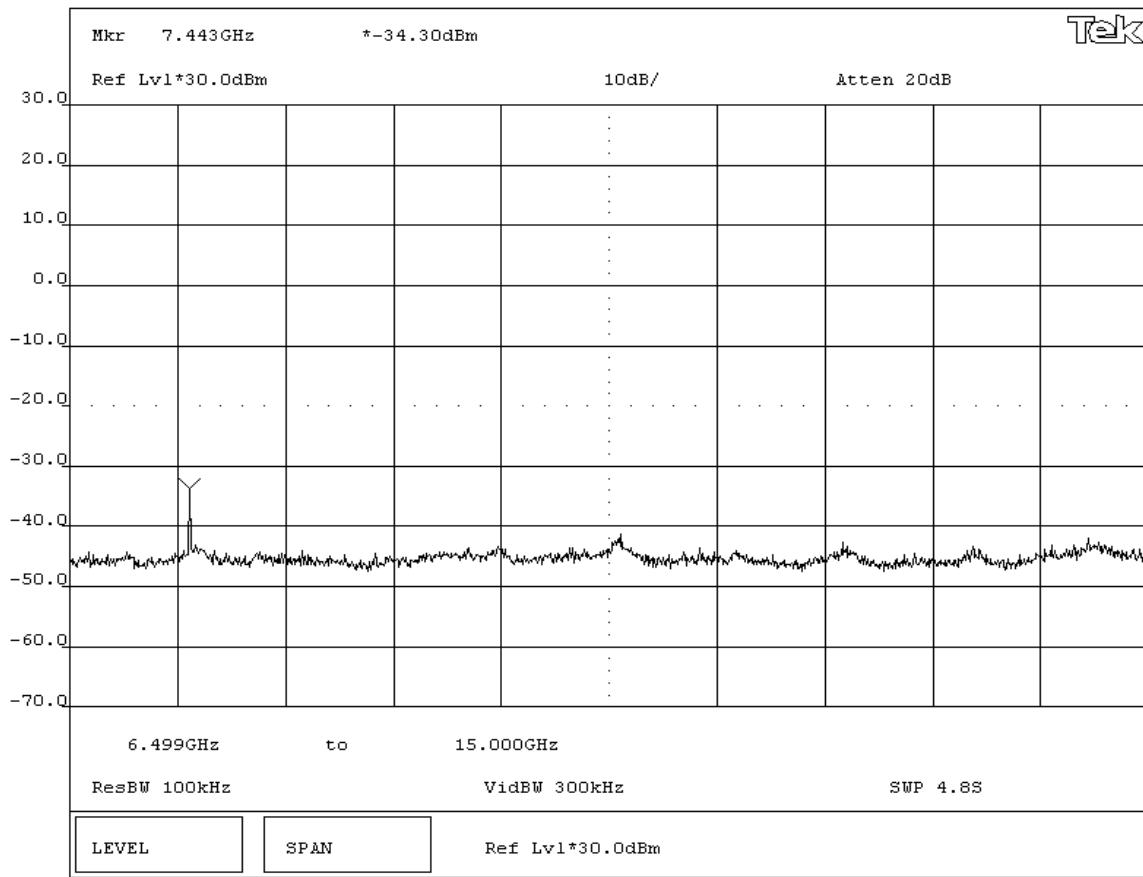
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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX1 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

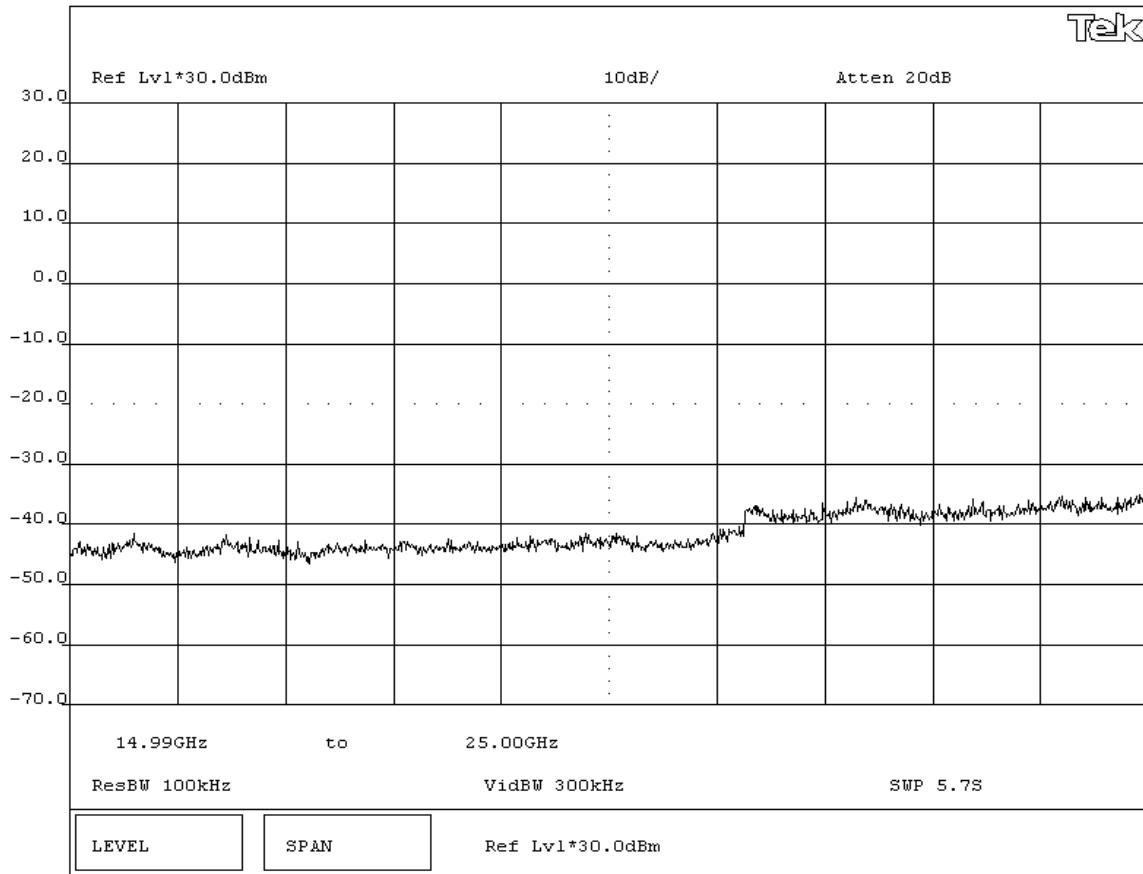
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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX1 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz					



KNOB 2

KNOB 1

KEYPAD

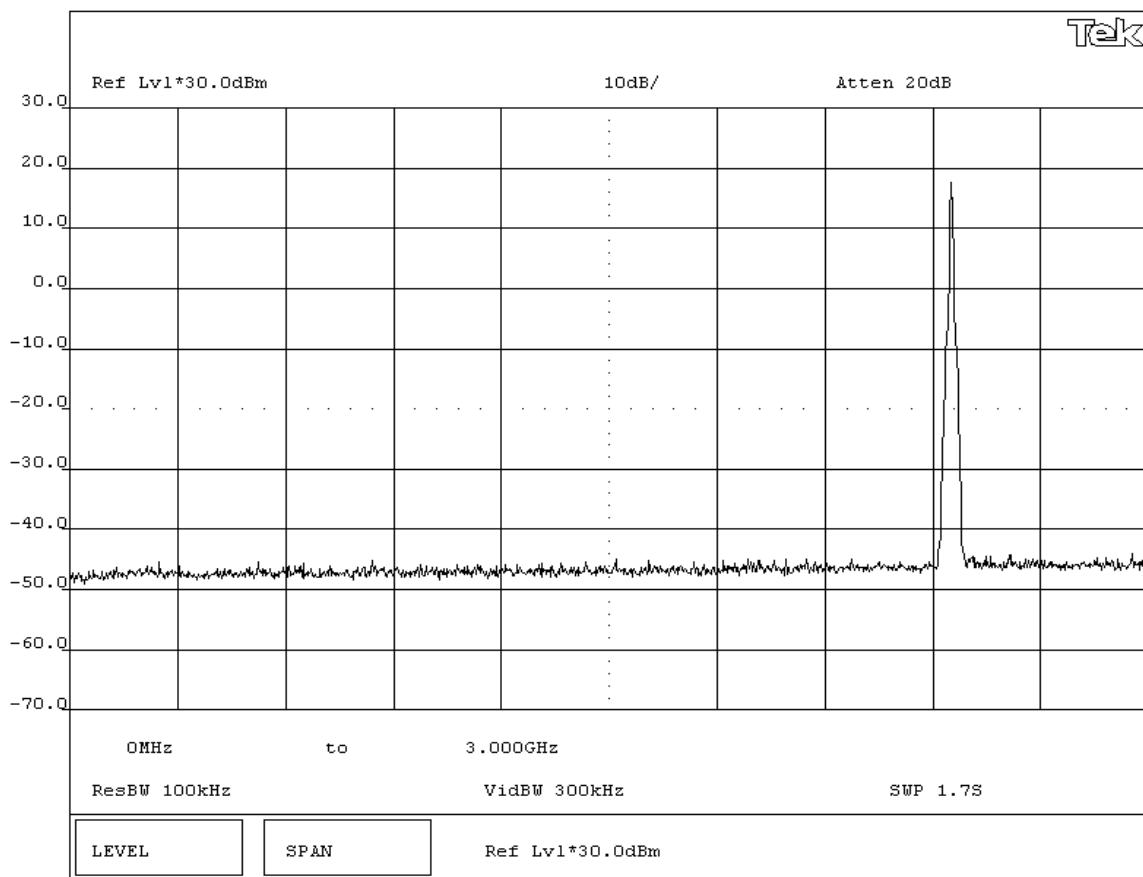
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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/04/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX1 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz					



KNOB 2

KNOB 1

KEYPAD

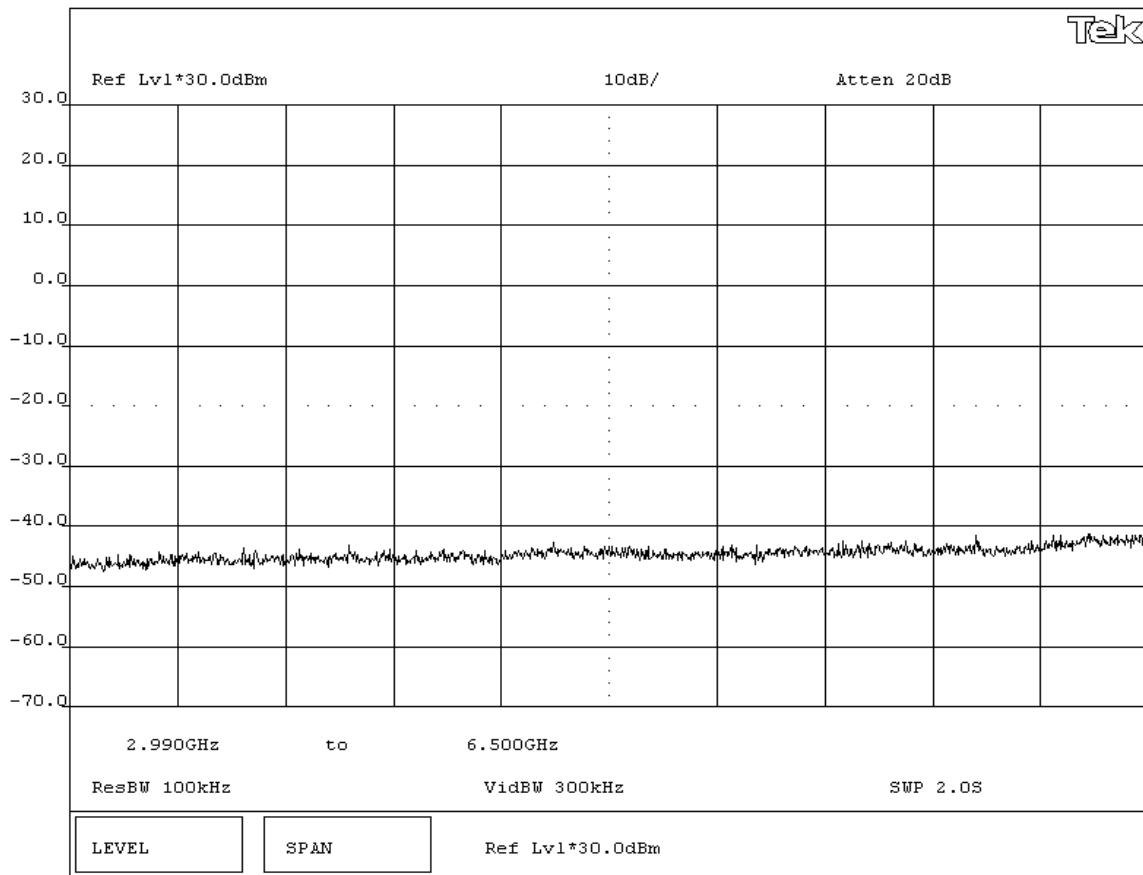
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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/04/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX1 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

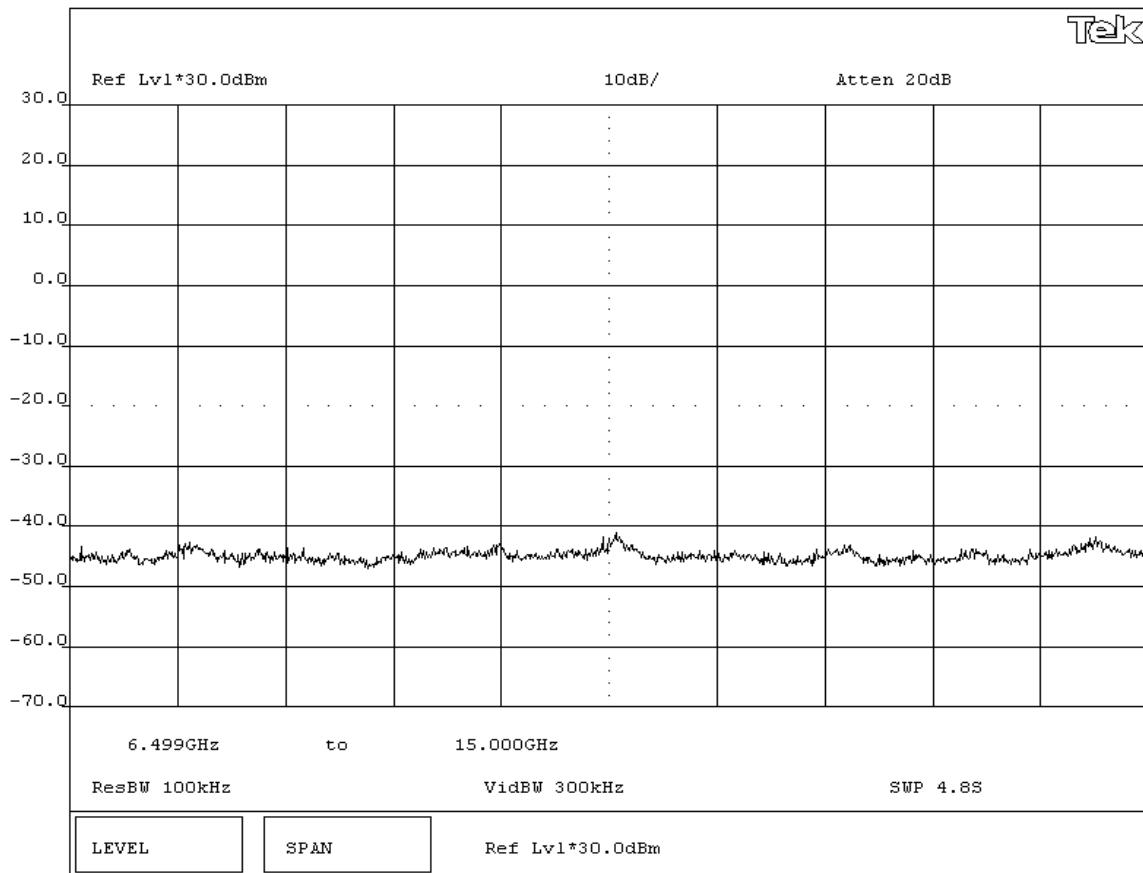
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/04/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX1 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
Tested By: <u>Greg Kiemel</u>					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

Tektronix 2784

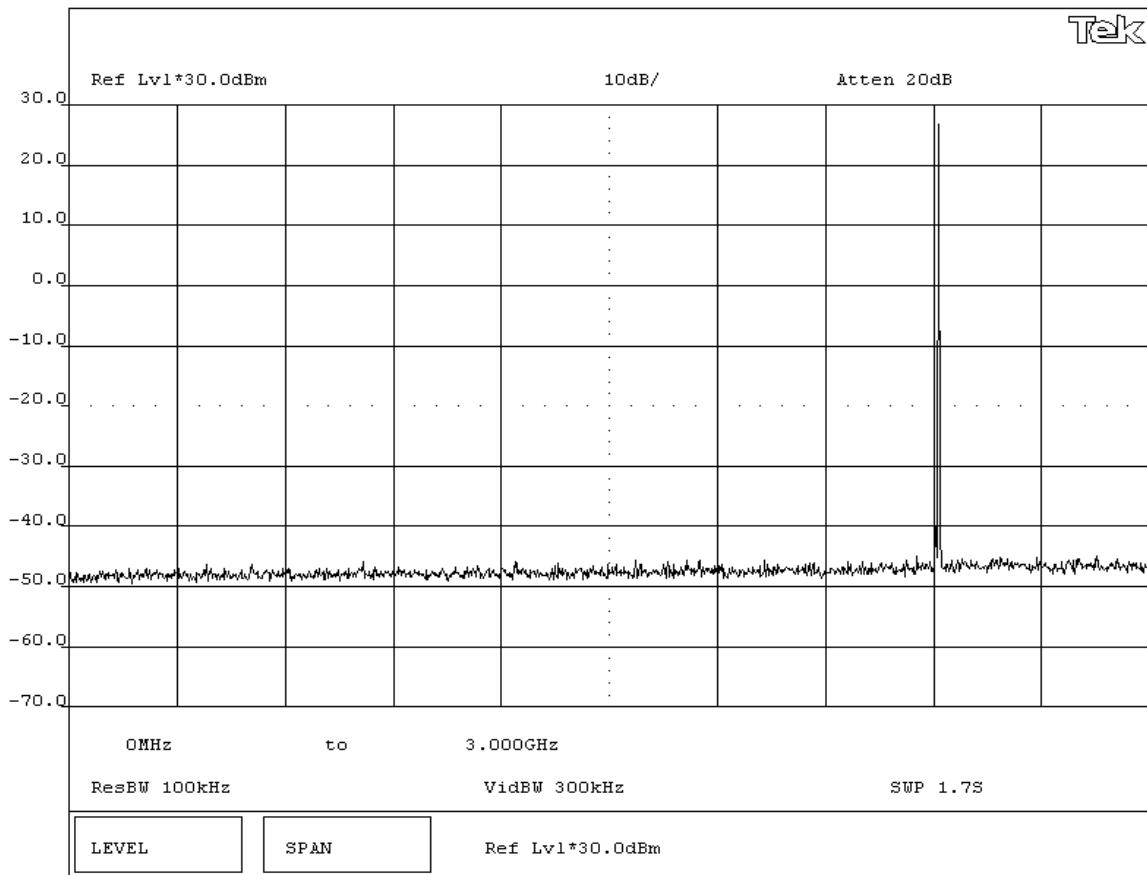


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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005		
Serial Number:	32695			Date:	11/03/04		
Customer:	Idmicro, INC.			Temperature:	68		
Attendees:	Tom Kearns		Tested by:	Greg Kiemel		Humidity:	40%
Customer Ref. No.:	N/A		Power:	120VAC/60Hz		Job Site:	EV06
<b>TEST SPECIFICATIONS</b>							
Specification:	47 CFR 15.247(d)	Year:	2004	Method:	DA 00-705, ANSI C63.4	Year:	2003
<b>SAMPLE CALCULATIONS</b>							
<b>COMMENTS</b>							
Measurement made at TX2 Antenna Port							
<b>EUT OPERATING MODES</b>							
Return link (no hop mode)							
<b>DEVIATIONS FROM TEST STANDARD</b>							
None							
<b>REQUIREMENTS</b>							
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental							
<b>RESULTS</b>							
Pass							
<b>SIGNATURE</b>							
 Tested By: _____							
<b>DESCRIPTION OF TEST</b>							
Antenna Conducted Spurious Emissions - Low Channel 0MHz-3GHz							



KNOB 2

KNOB 1

KEYPAD

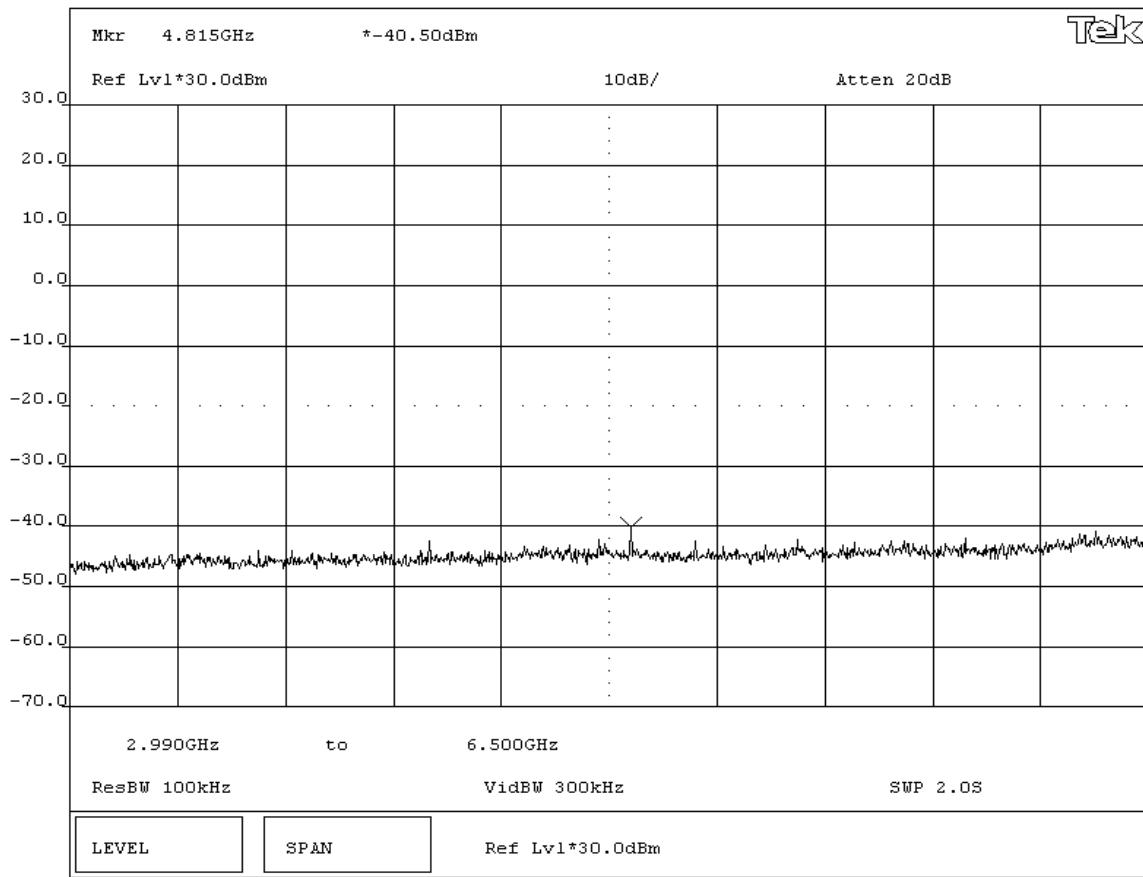
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX2 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

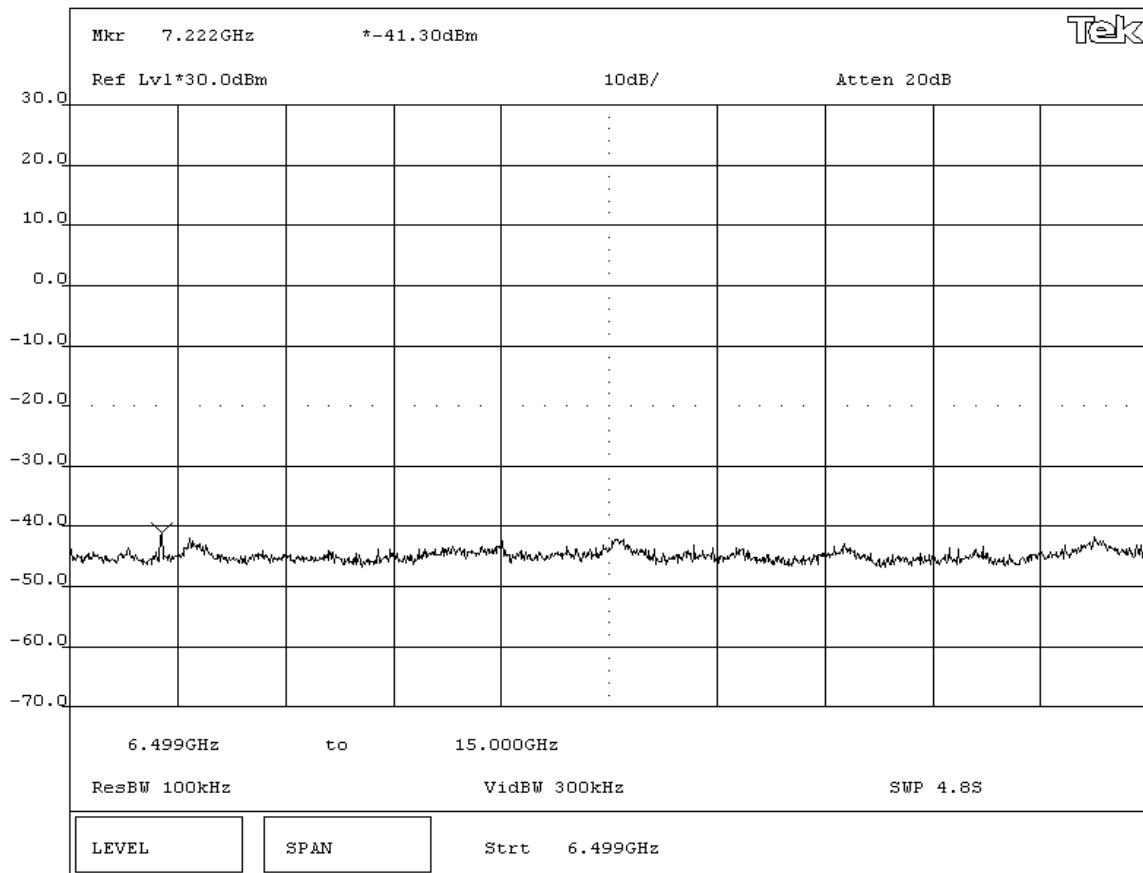
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX2 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
Tested By: <u>Greg Kiemel</u>					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

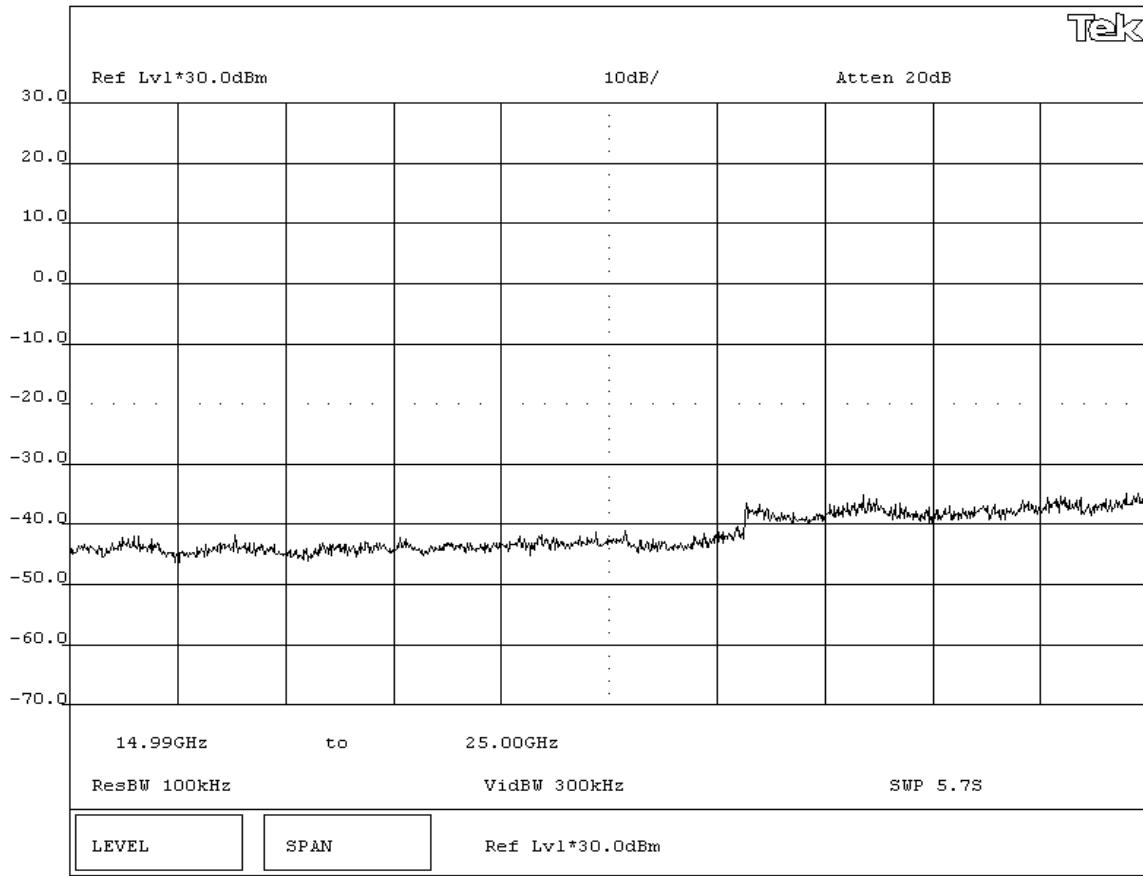
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX2 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 15GHz - 25GHz					



KNOB 2

KNOB 1

KEYPAD

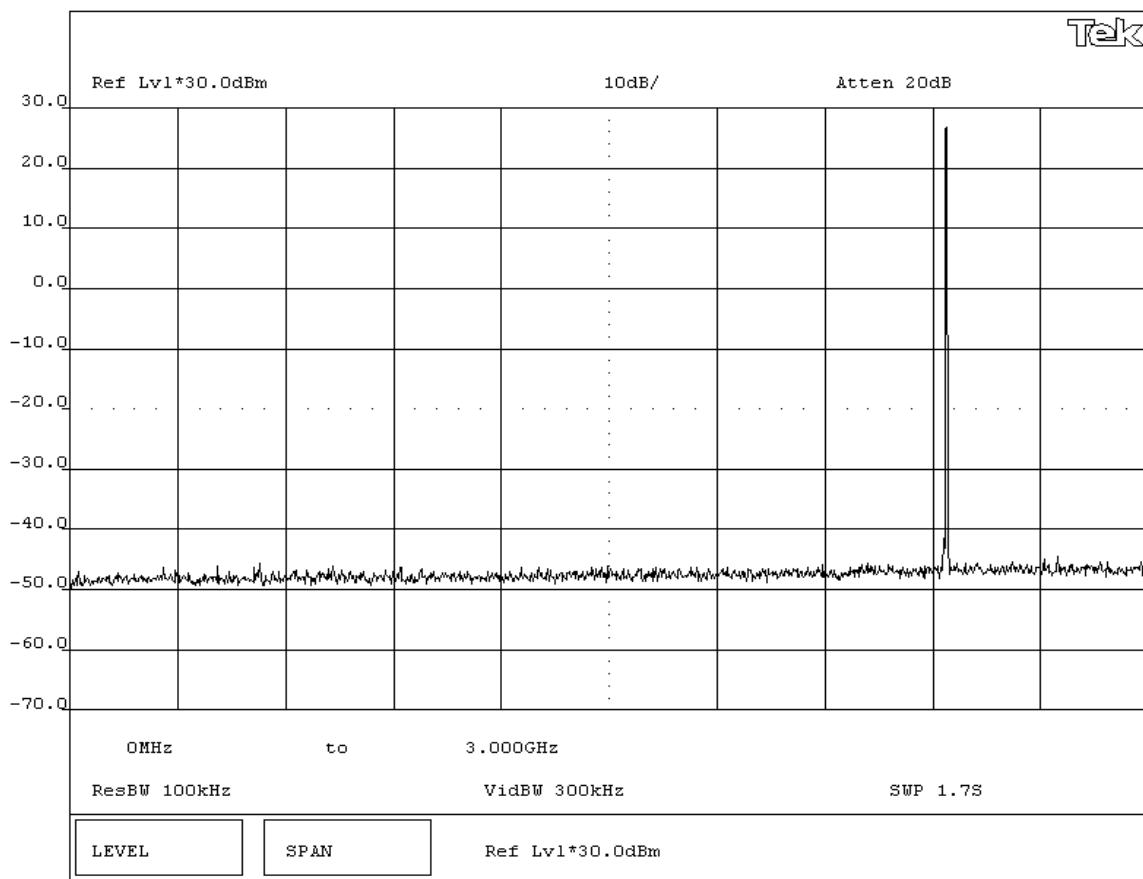
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS					
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX2 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 0MHz-3GHz					



KNOB 2

KNOB 1

KEYPAD

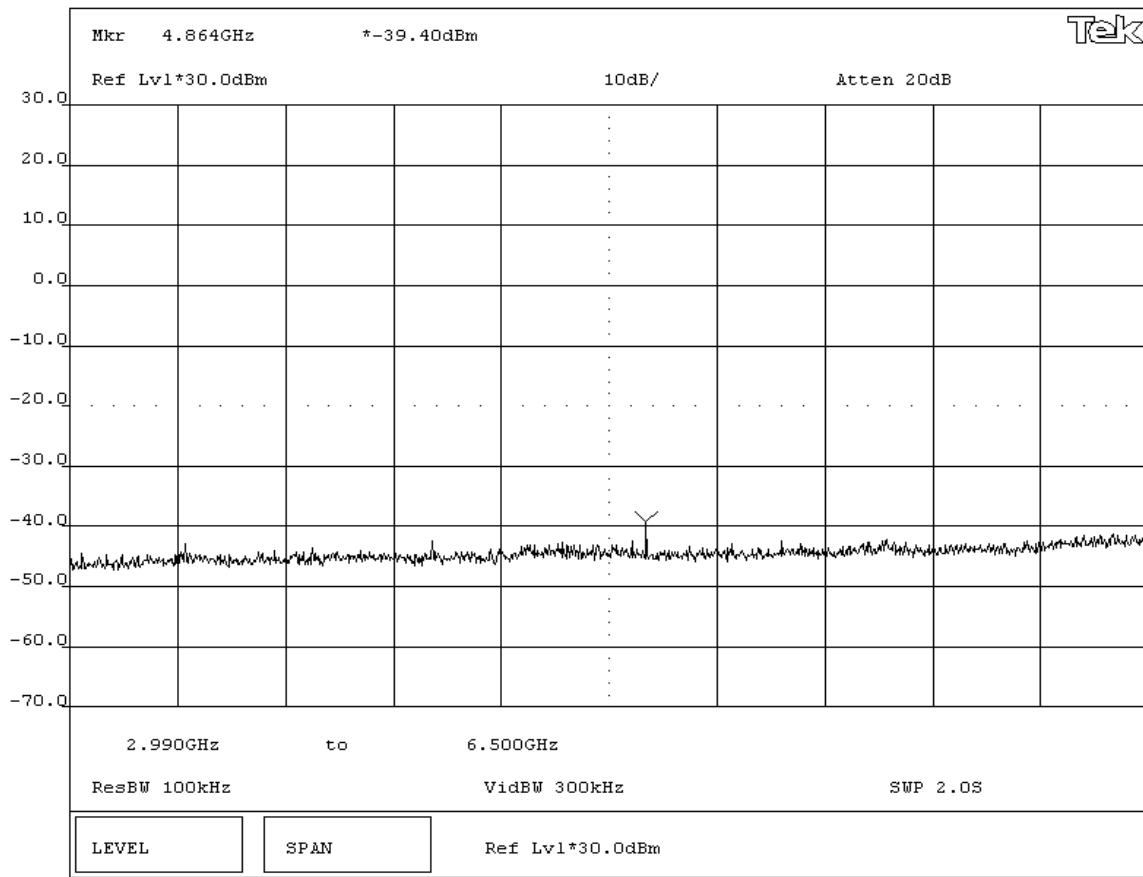
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX2 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

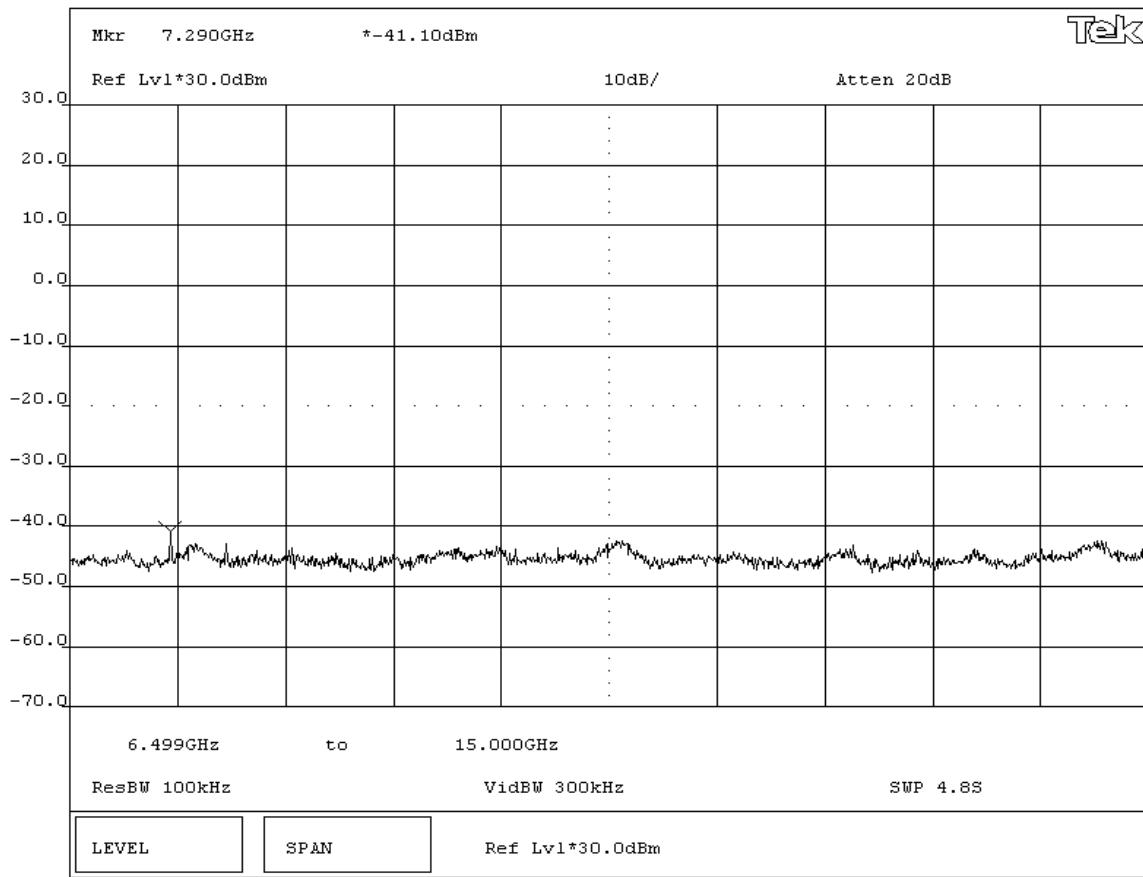
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX2 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

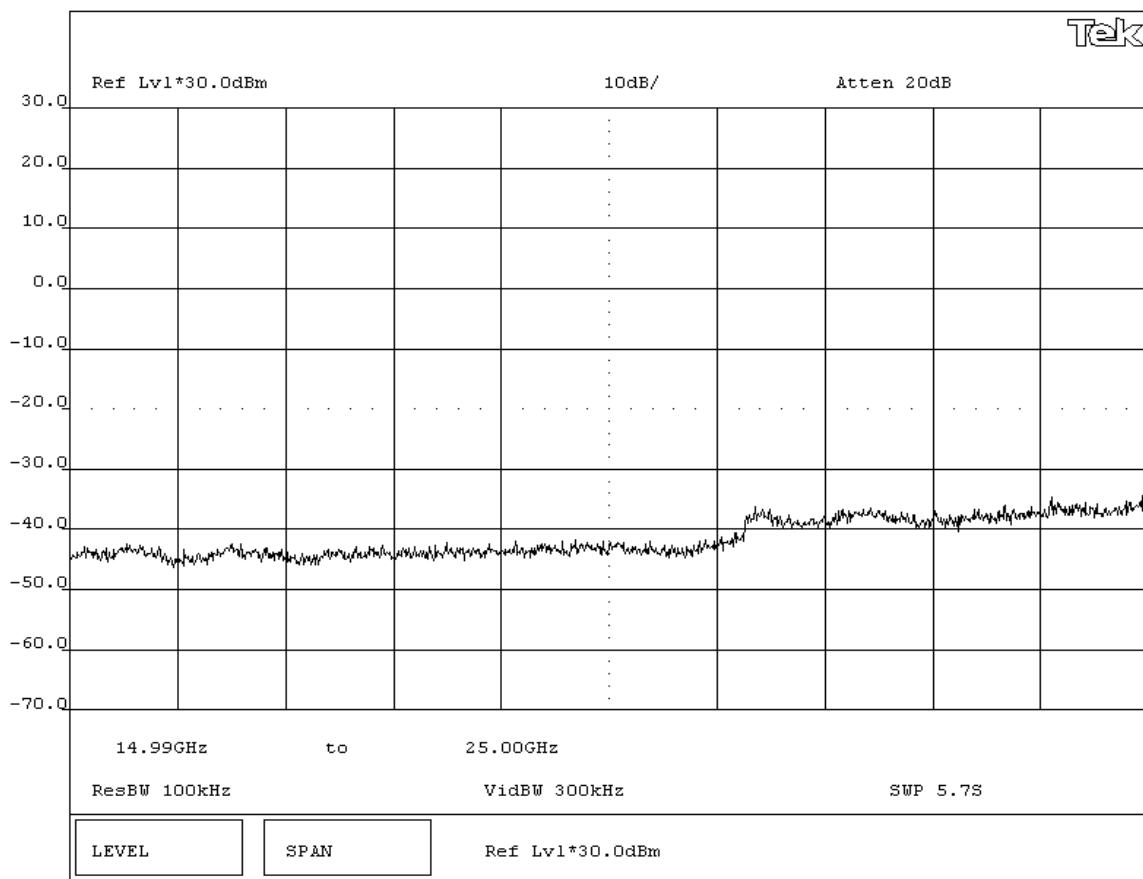
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX2 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz					



KNOB 2

KNOB 1

KEYPAD

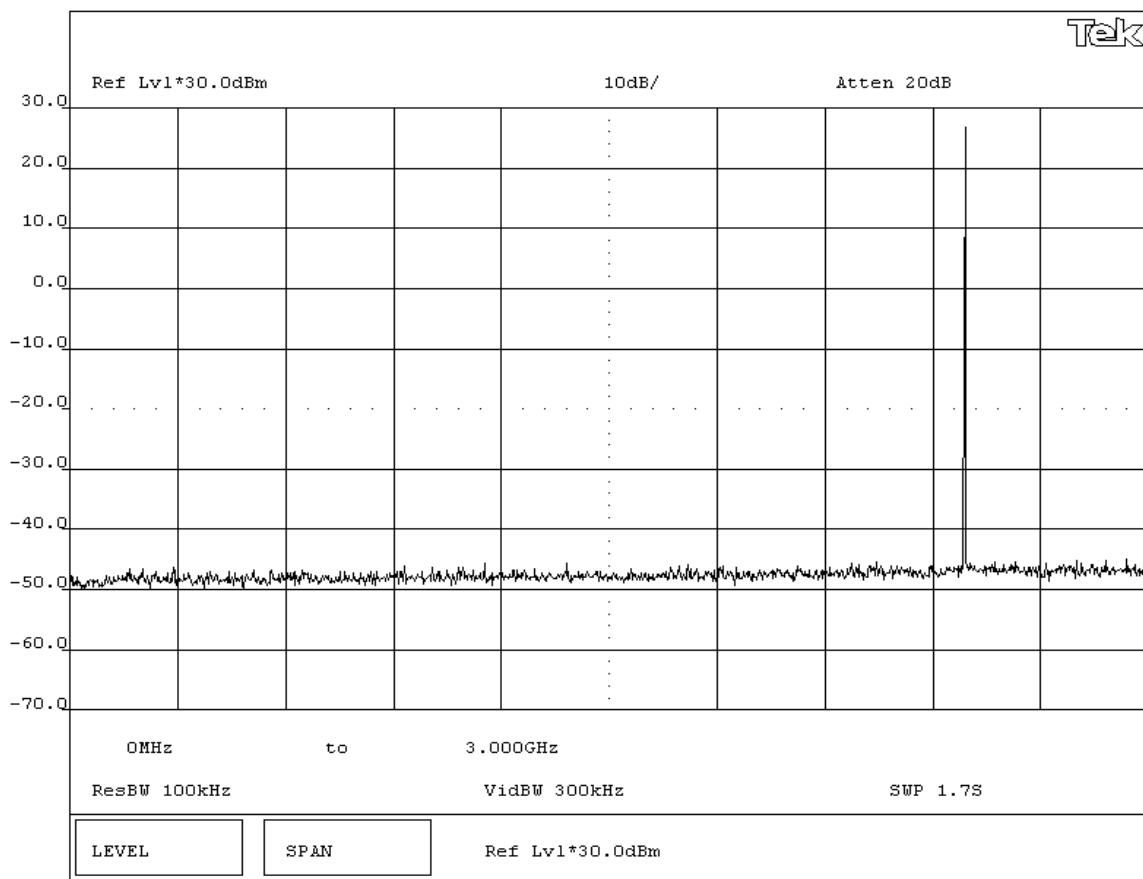
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX2 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz					



KNOB 2

KNOB 1

KEYPAD

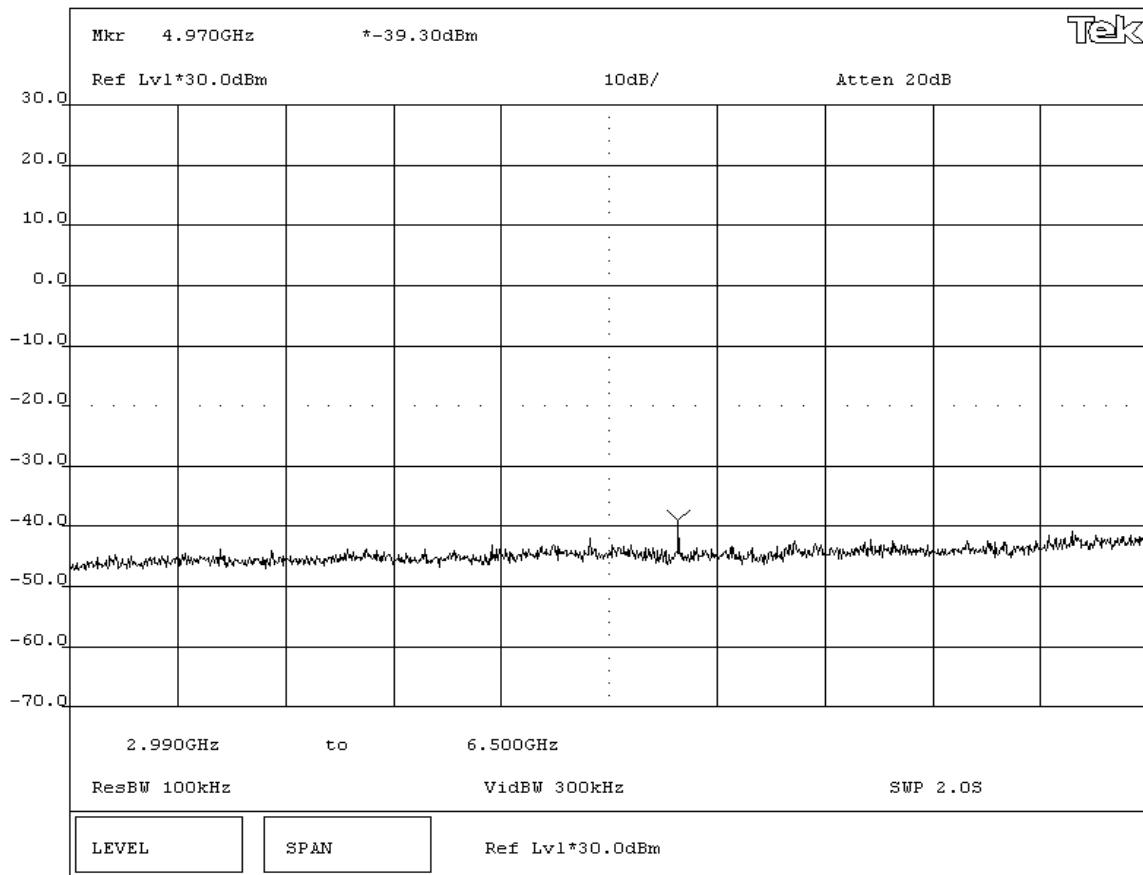
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX2 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

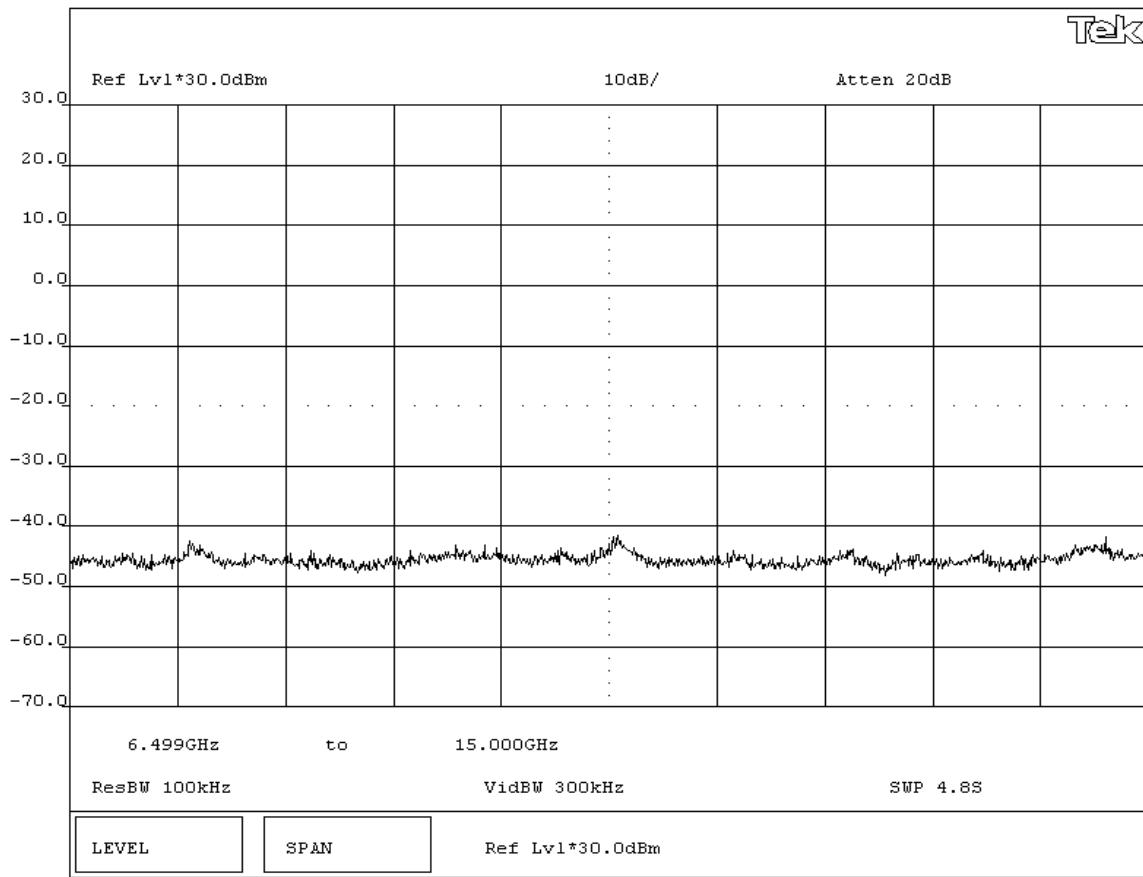
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX2 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

Tektronix 2784

NORTHWEST  
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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader	Work Order:	IDMI0005
Serial Number:	32695	Date:	11/03/04
Customer:	Idmicro, INC.	Temperature:	68
Attendees:	Tom Kearns	Humidity:	40%
Customer Ref. No.:	N/A	Power:	120VAC/60Hz

## TEST SPECIFICATIONS

Specification: 47 CFR 15.247(d) Year: 2004 Method: DA 00-705, ANSI C63.4 Year: 2003

## SAMPLE CALCULATIONS

## COMMENTS

Measurement made at TX2 Antenna Port

## EUT OPERATING MODES

Return link (no hop mode)

## DEVIATIONS FROM TEST STANDARD

None

## REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

## RESULTS

Pass

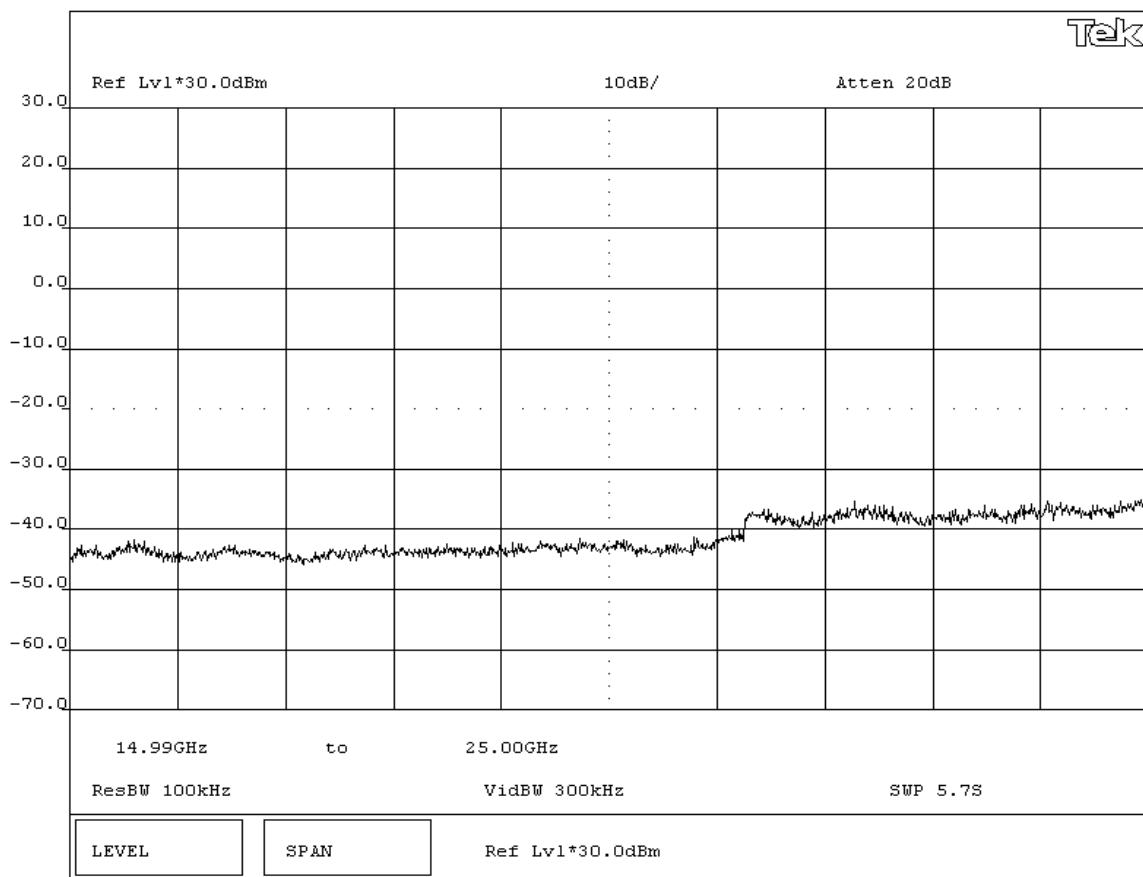
## SIGNATURE

*Greg Kiemel*

Tested By: \_\_\_\_\_

## DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz



KNOB 2

KNOB 1

KEYPAD

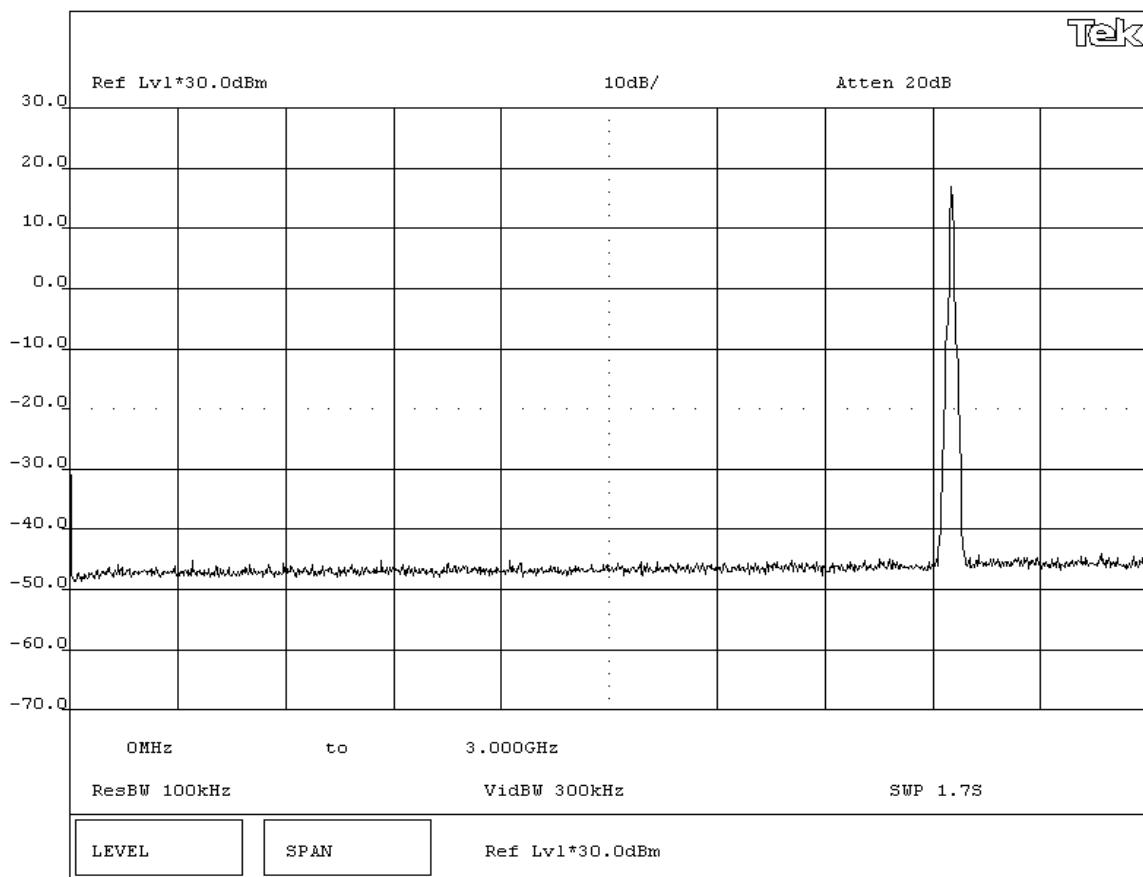
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader	Work Order:	IDMI0005
Serial Number:	32695	Date:	11/03/04
Customer:	Idmicro, INC.	Temperature:	68
Attendees:	Tom Kearns	Humidity:	40%
Customer Ref. No.:	N/A	Power:	120VAC/60Hz
TEST SPECIFICATIONS		Job Site: EV06	
Specification: 47 CFR 15.247(d)		Method: DA 00-705, ANSI C63.4	Year: 2003
SAMPLE CALCULATIONS			
COMMENTS			
Measurement made at TX2 Antenna Port			
EUT OPERATING MODES			
Forward link (DSSS mode)			
DEVIATIONS FROM TEST STANDARD			
None			
REQUIREMENTS			
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental			
RESULTS			
Pass			
SIGNATURE			
 Tested By: _____			
DESCRIPTION OF TEST			
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz			



KNOB 2

KNOB 1

KEYPAD

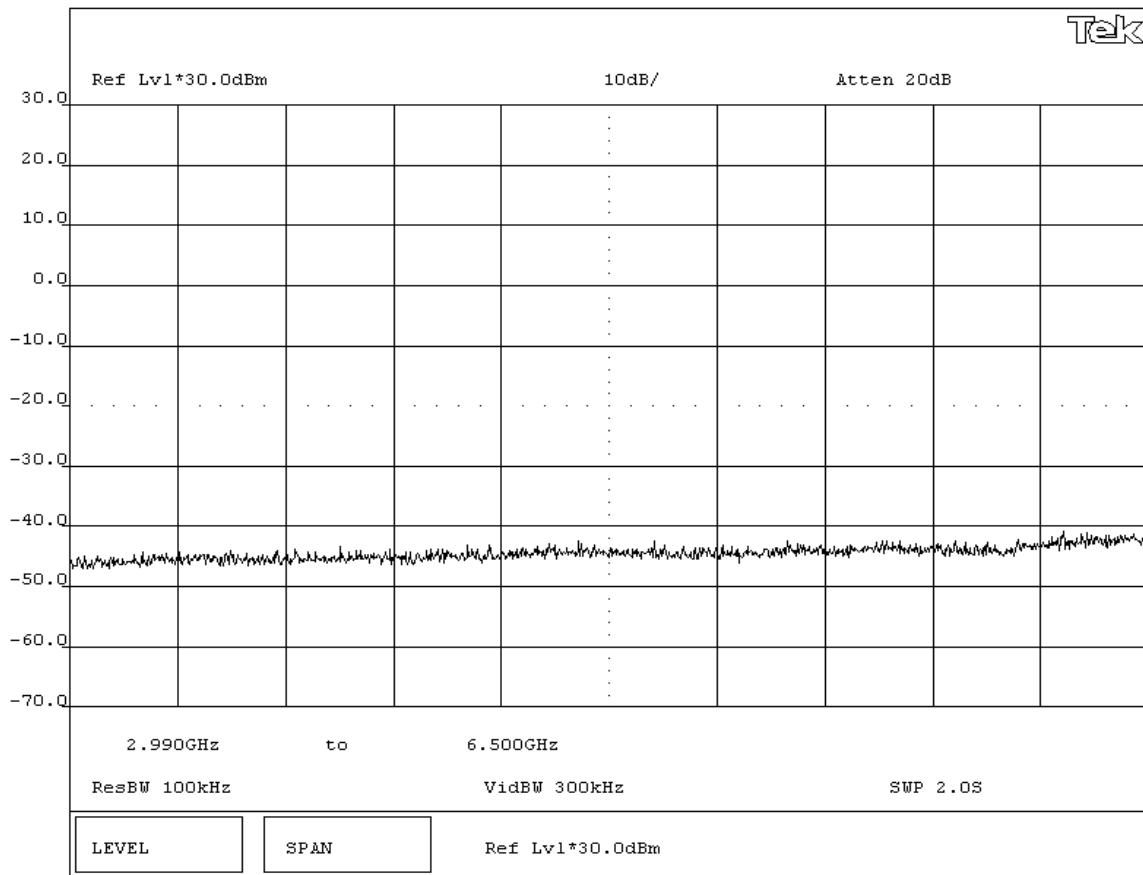
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX2 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
Tested By: <u>Greg Kiemel</u>					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

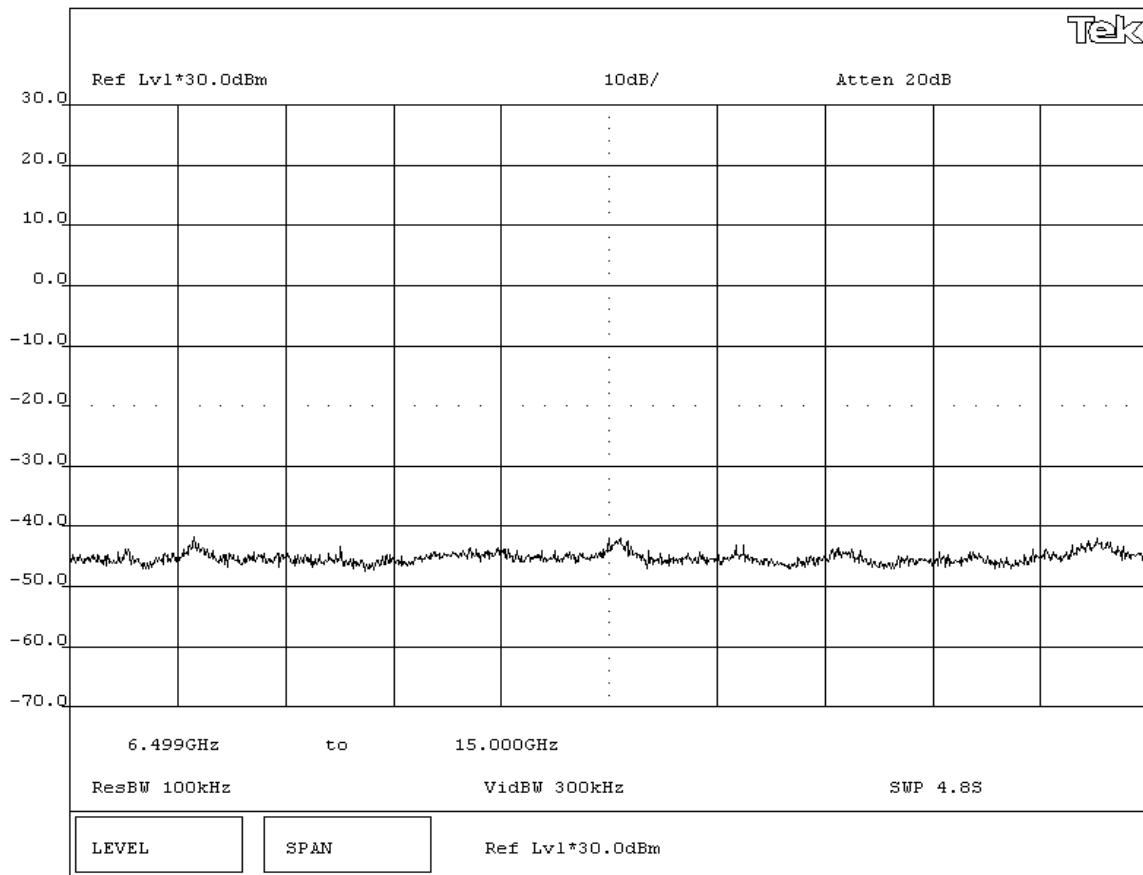
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX2 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

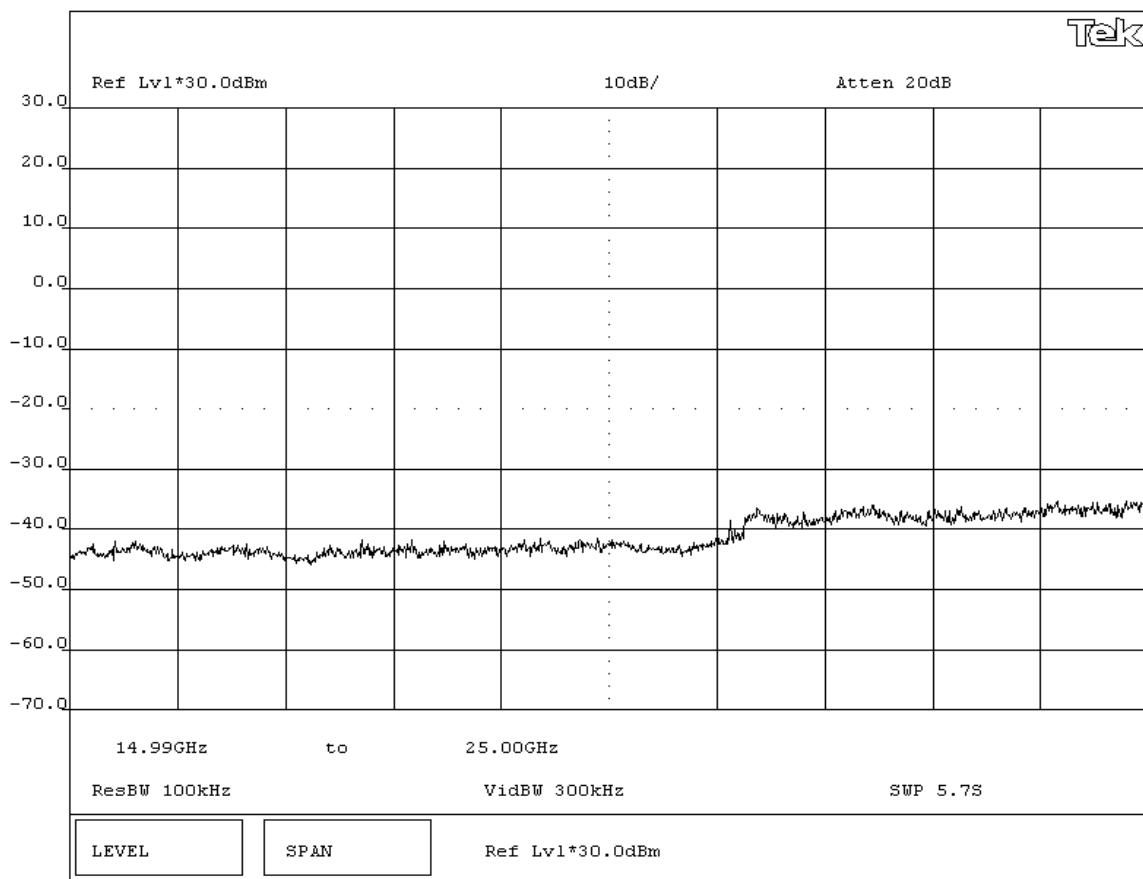
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX2 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz					



KNOB 2

KNOB 1

KEYPAD

Tektronix 2784

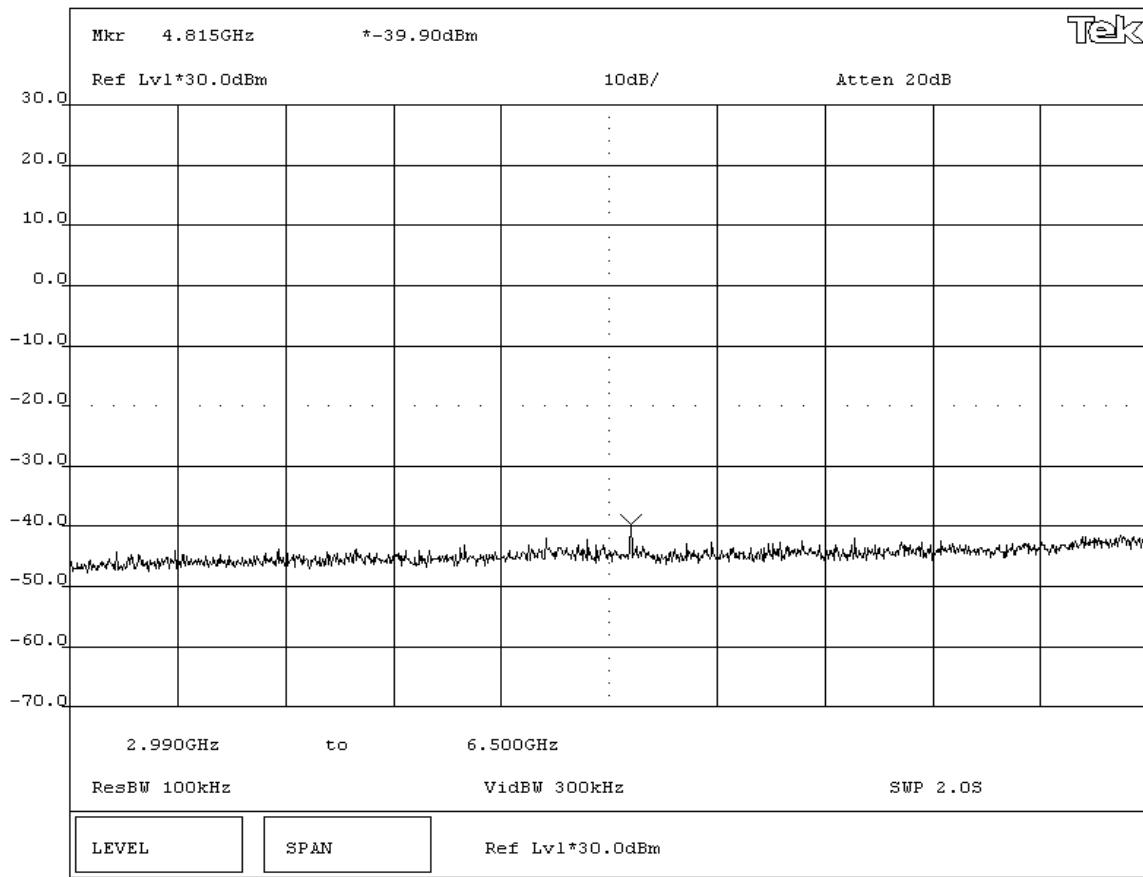


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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX3 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

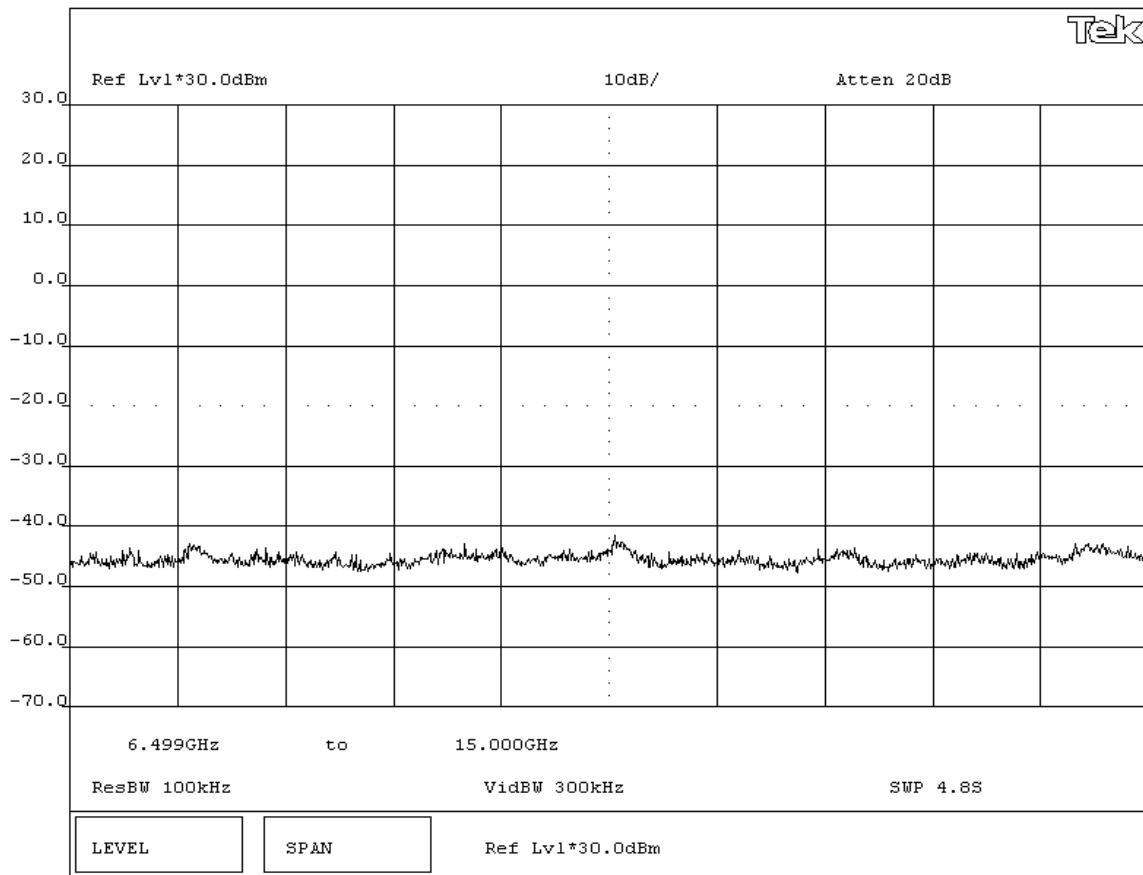
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX3 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

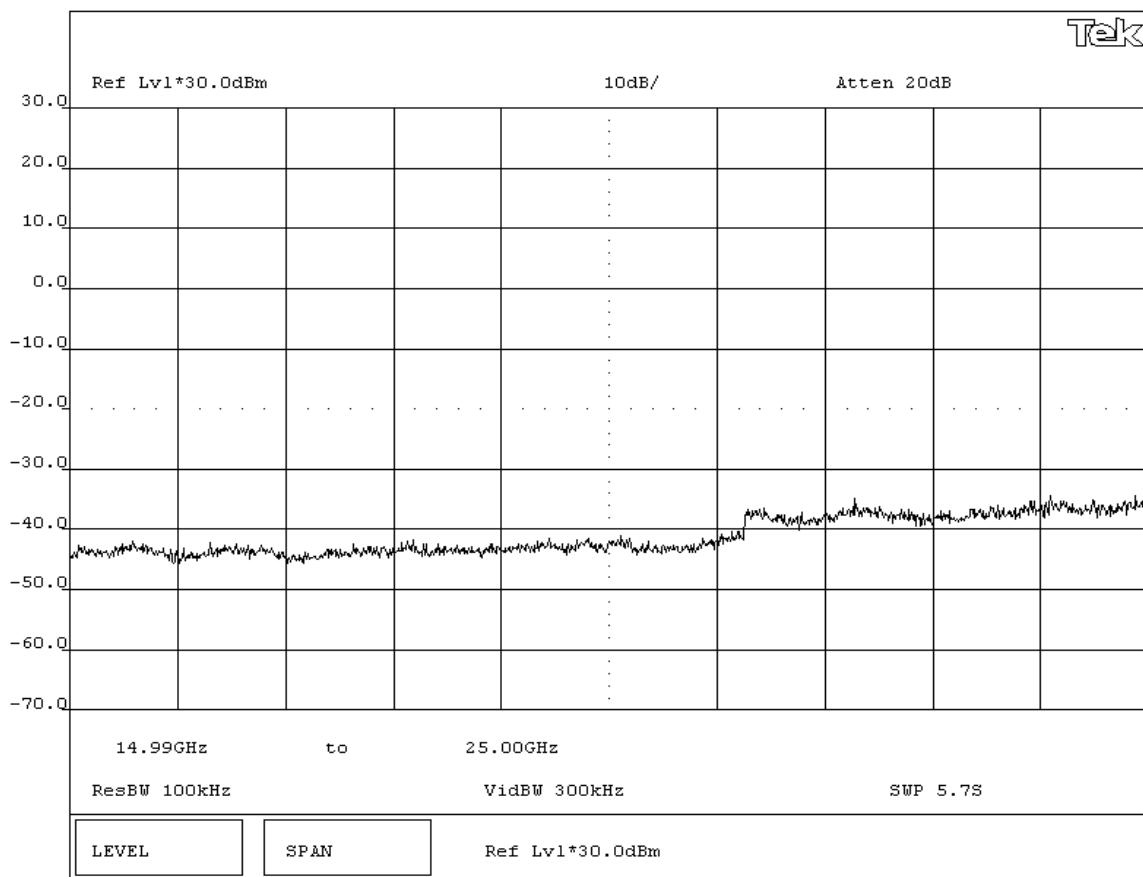
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX3 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 15GHz - 25GHz					



KNOB 2

KNOB 1

KEYPAD

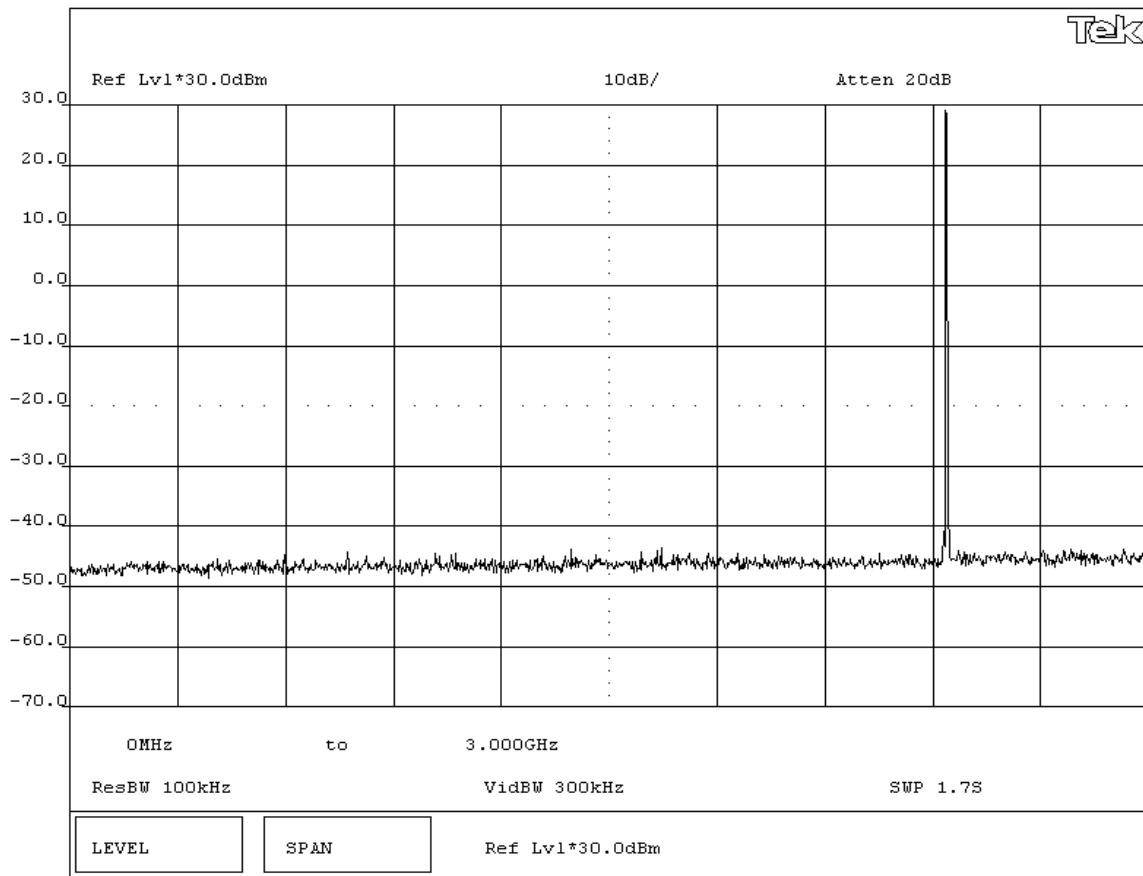
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX3 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 0MHz-3GHz					



KNOB 2

KNOB 1

KEYPAD

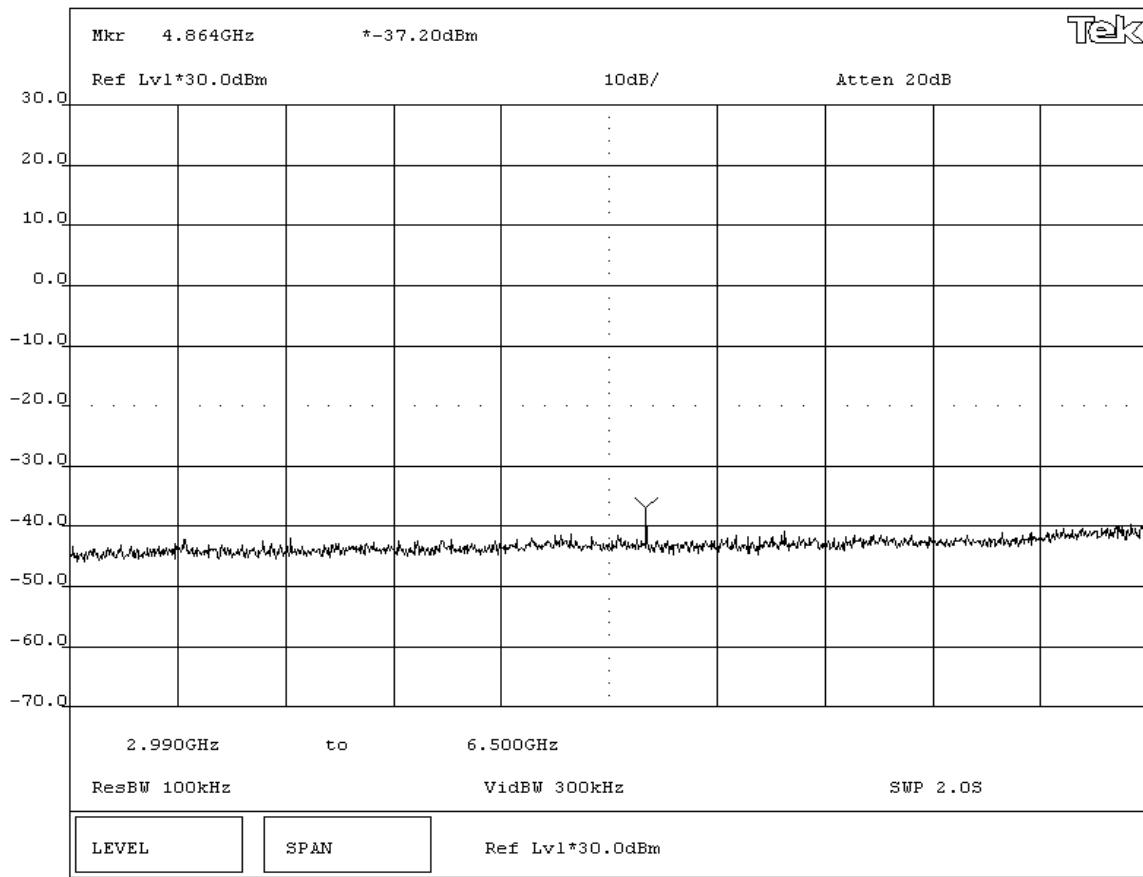
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX3 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

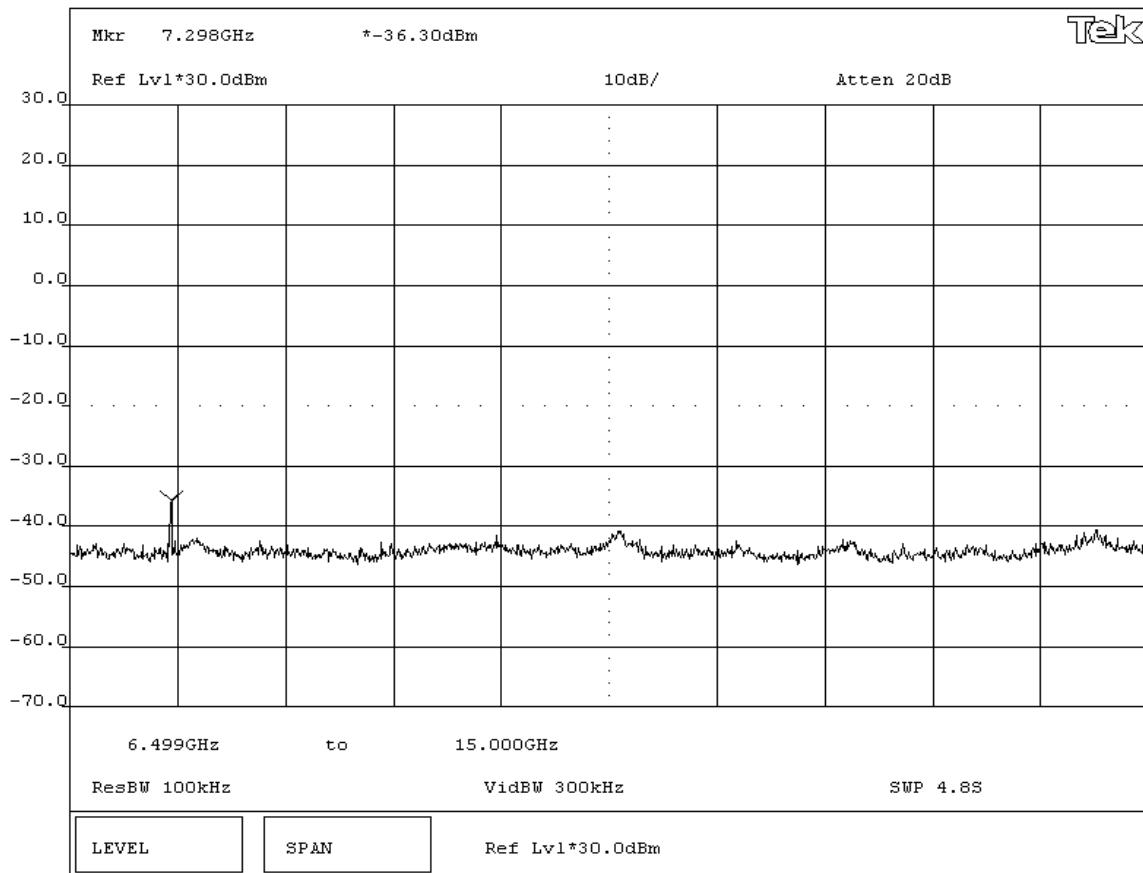
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX3 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
Tested By: <u>Greg Kiemel</u>					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

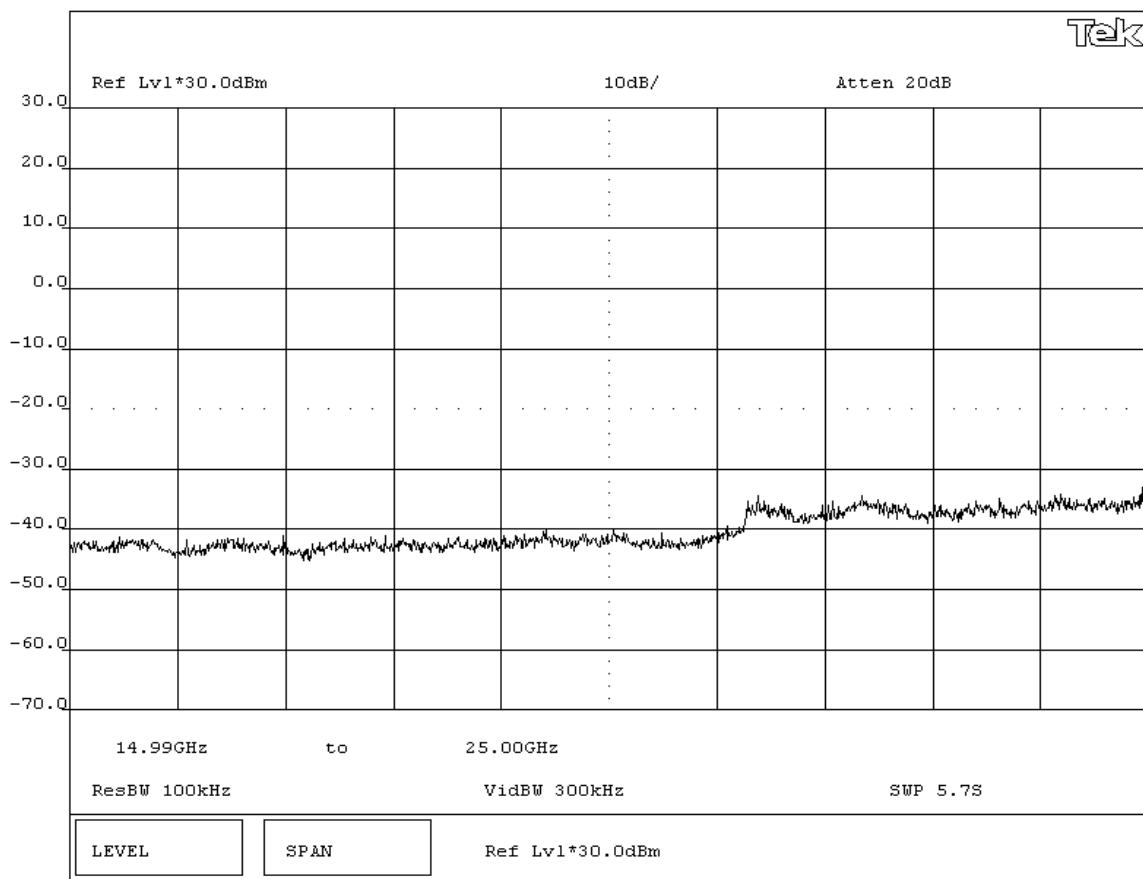
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX3 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz					



KNOB 2

KNOB 1

KEYPAD

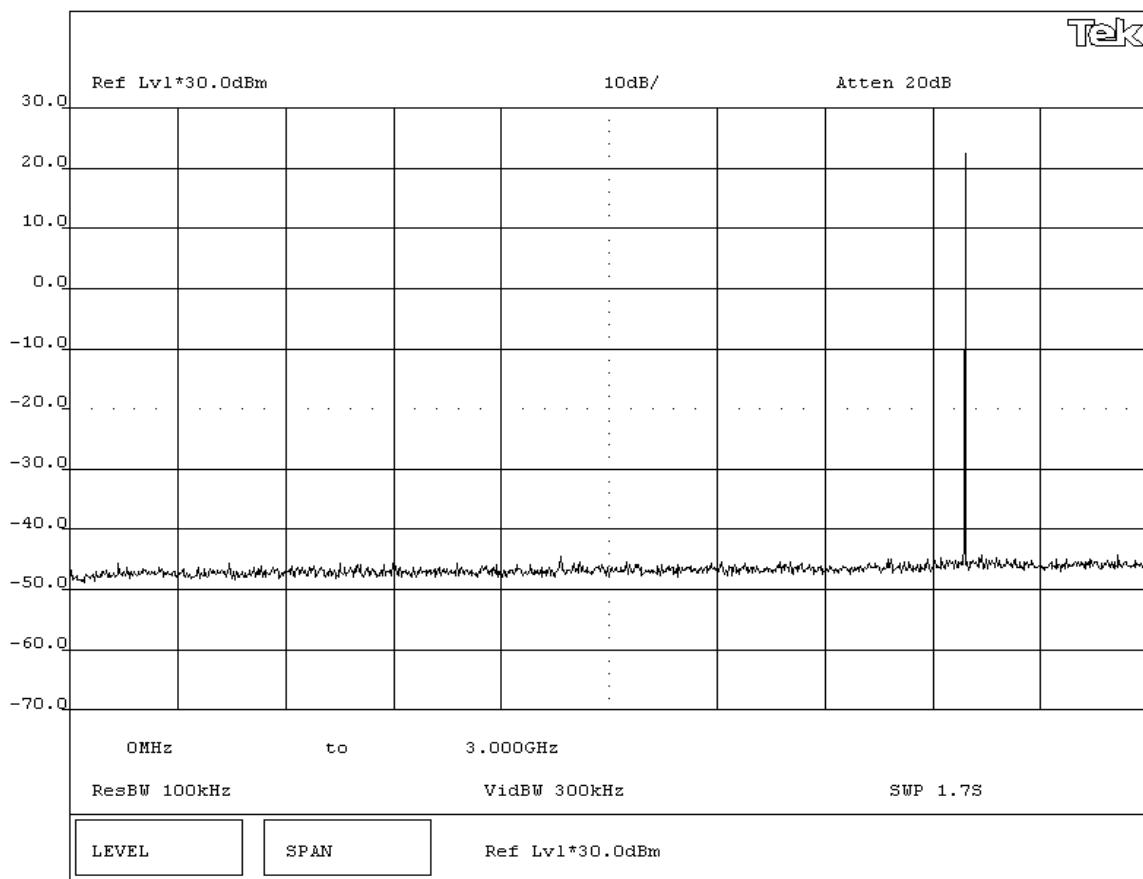
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX3 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz					



KNOB 2

KNOB 1

KEYPAD

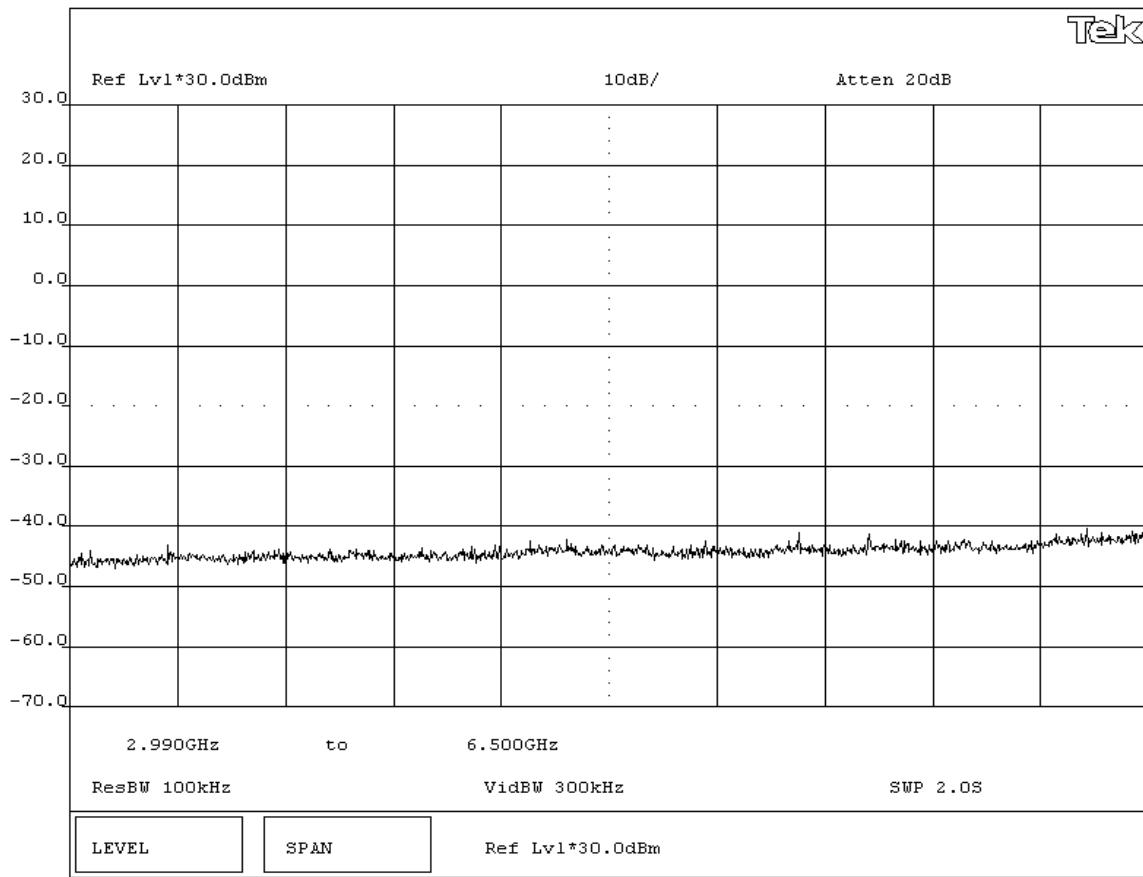
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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX3 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
Tested By: <u>Greg Kiemel</u>					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

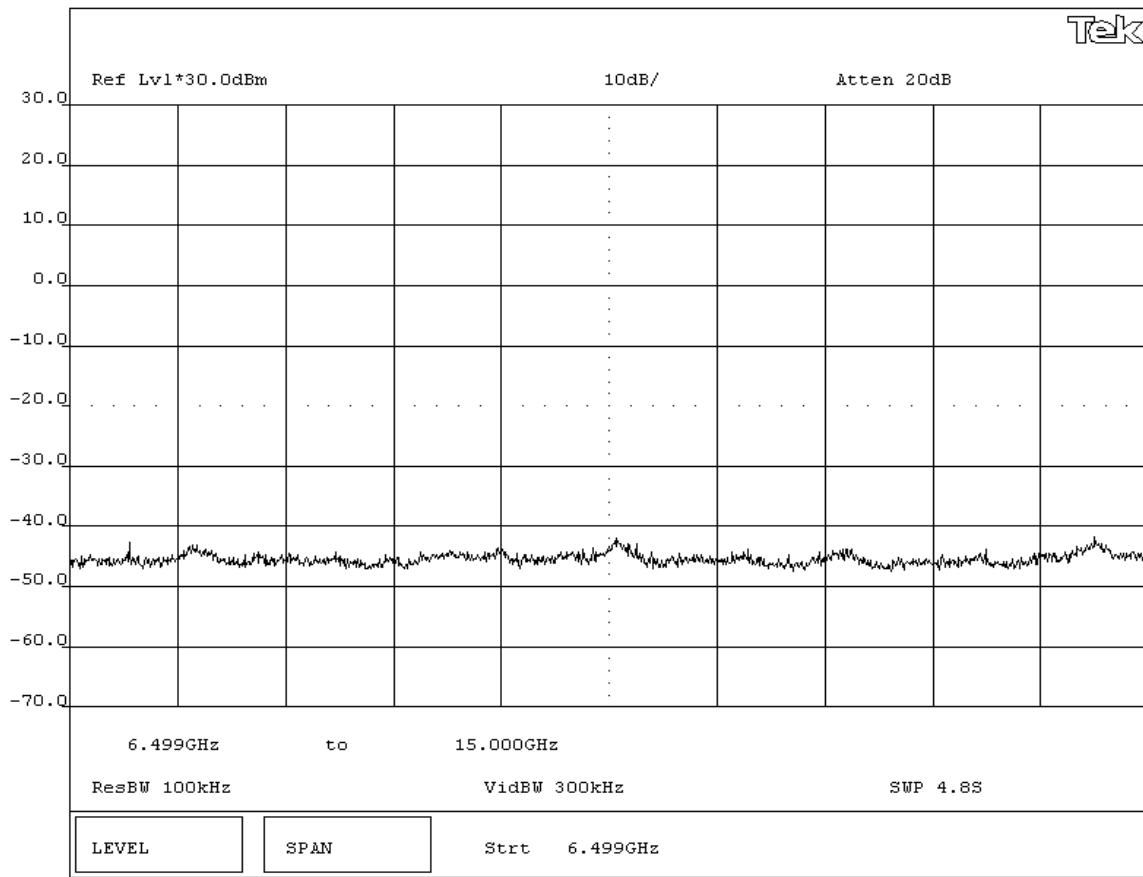
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX3 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

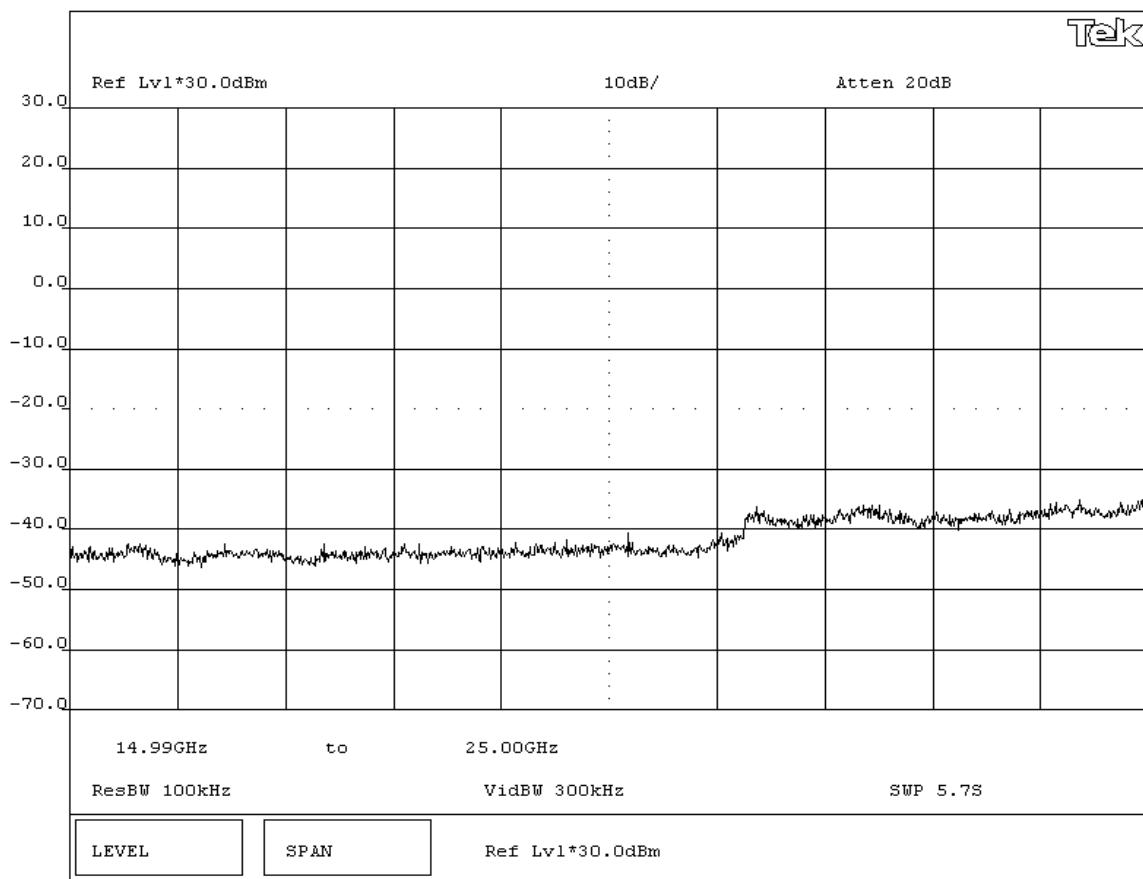
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX3 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz					



KNOB 2

KNOB 1

KEYPAD

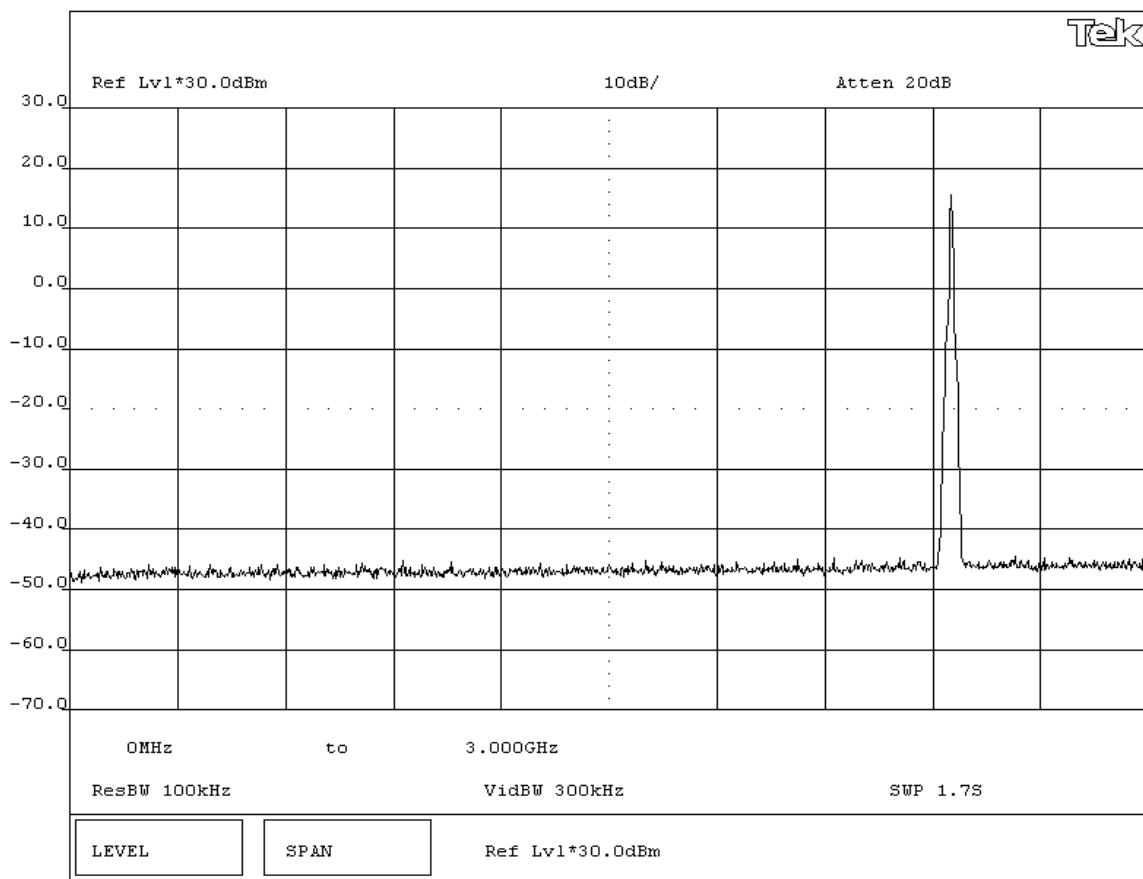
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX3 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz					



KNOB 2

KNOB 1

KEYPAD

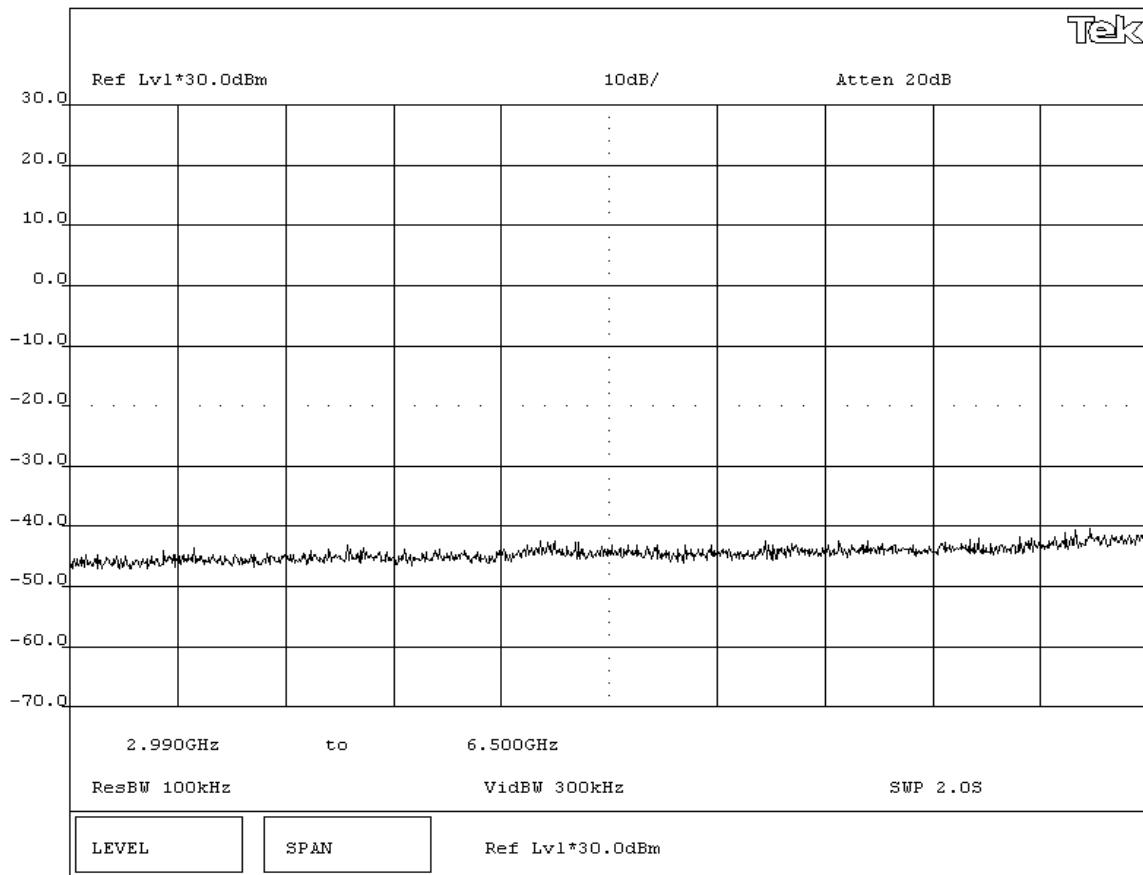
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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX3 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
Tested By: 					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

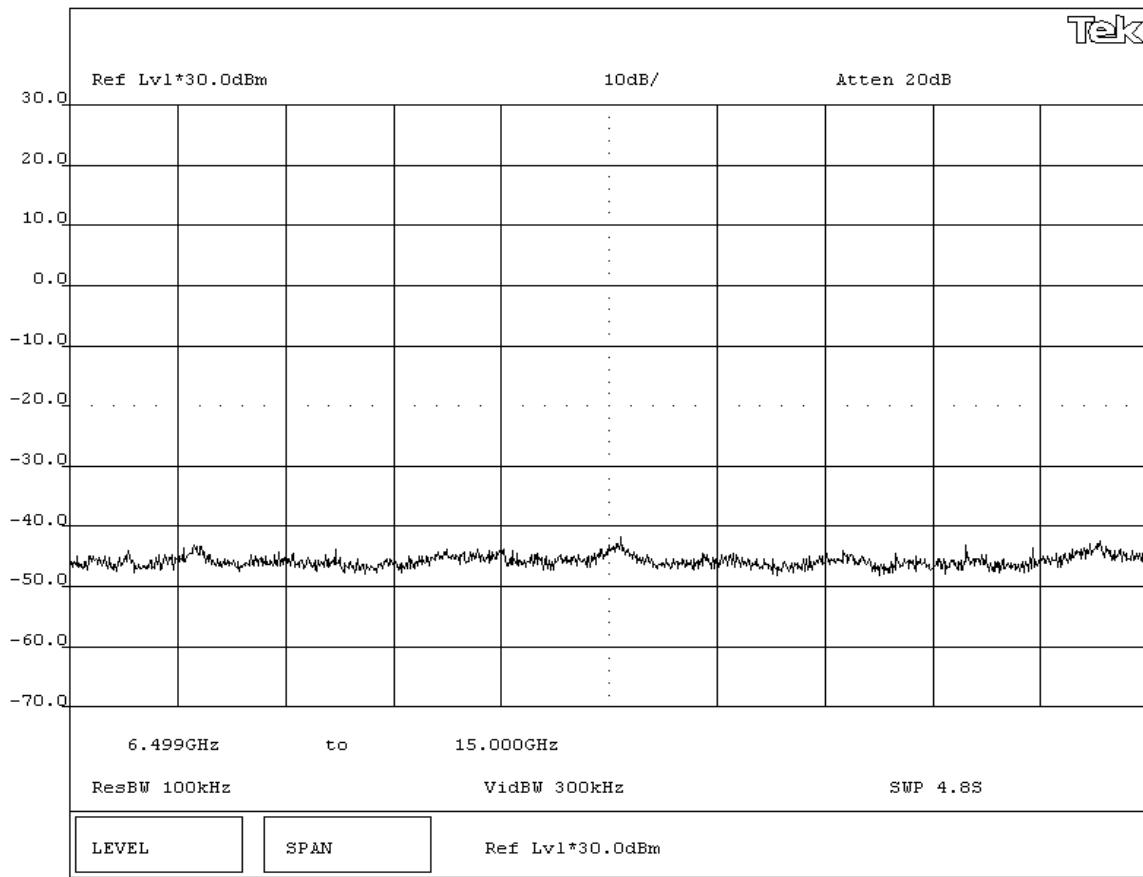
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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX3 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader	Work Order:	IDMI0005
Serial Number:	32695	Date:	11/03/04
Customer:	Idmicro, INC.	Temperature:	68
Attendees:	Tom Kearns	Humidity:	40%
Customer Ref. No.:	N/A	Power:	120VAC/60Hz

## TEST SPECIFICATIONS

Specification: 47 CFR 15.247(d) Year: 2004 Method: DA 00-705, ANSI C63.4 Year: 2003

## SAMPLE CALCULATIONS

## COMMENTS

Measurement made at TX3 Antenna Port

## EUT OPERATING MODES

Forward link (DSSS mode)

## DEVIATIONS FROM TEST STANDARD

None

## REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

## RESULTS

Pass

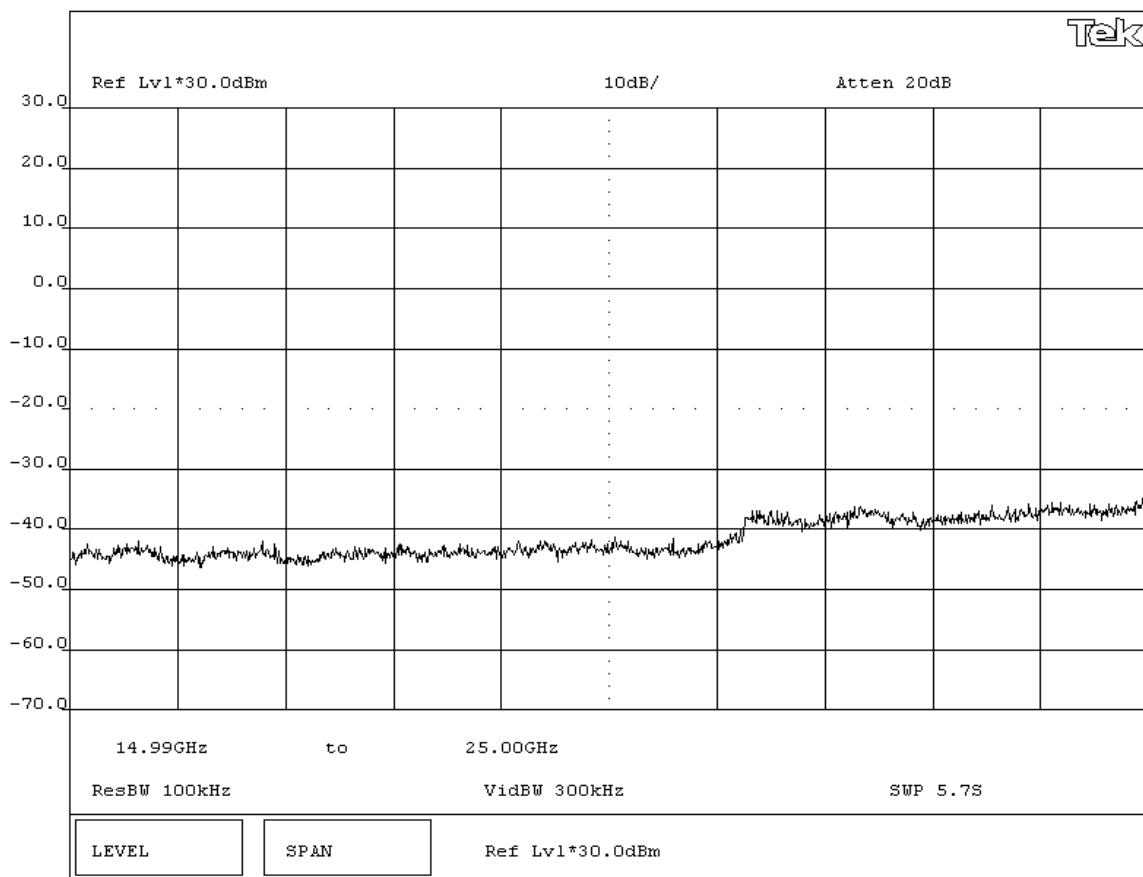
## SIGNATURE

*Greg Kiemel*

Tested By: \_\_\_\_\_

## DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz



KNOB 2

KNOB 1

KEYPAD

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## EMISSIONS DATA SHEET

EUT: 2.4 GHz RFID Reader	Work Order: IDMI0005
Serial Number: 32695	Date: 11/03/04
Customer: Idmicro, INC.	Temperature: 68
Attendees: Tom Kearns	Humidity: 40%
Customer Ref. No.: N/A	Power: 120VAC/60Hz
	Job Site: EV06

## TEST SPECIFICATIONS

**Specification:** 47 CFR 15.247(d)      **Year:** 2004      **Method:** DA 00-705, ANSI C63.4      **Year:** 2003

## SAMPLE CALCULATIONS

## COMMENTS

#### Measurement made at TX4 Antenna Port

## **FET OPERATING MODES**

## EST OPERATING MODES

#### DEVIATIONS FROM TEST STANDARD

DEVI  
None

## None

**REQUIREMENTS**  
Minimum level of one previous training outside of the participating level is 20 dB down from the fundamental.

**Maximum**

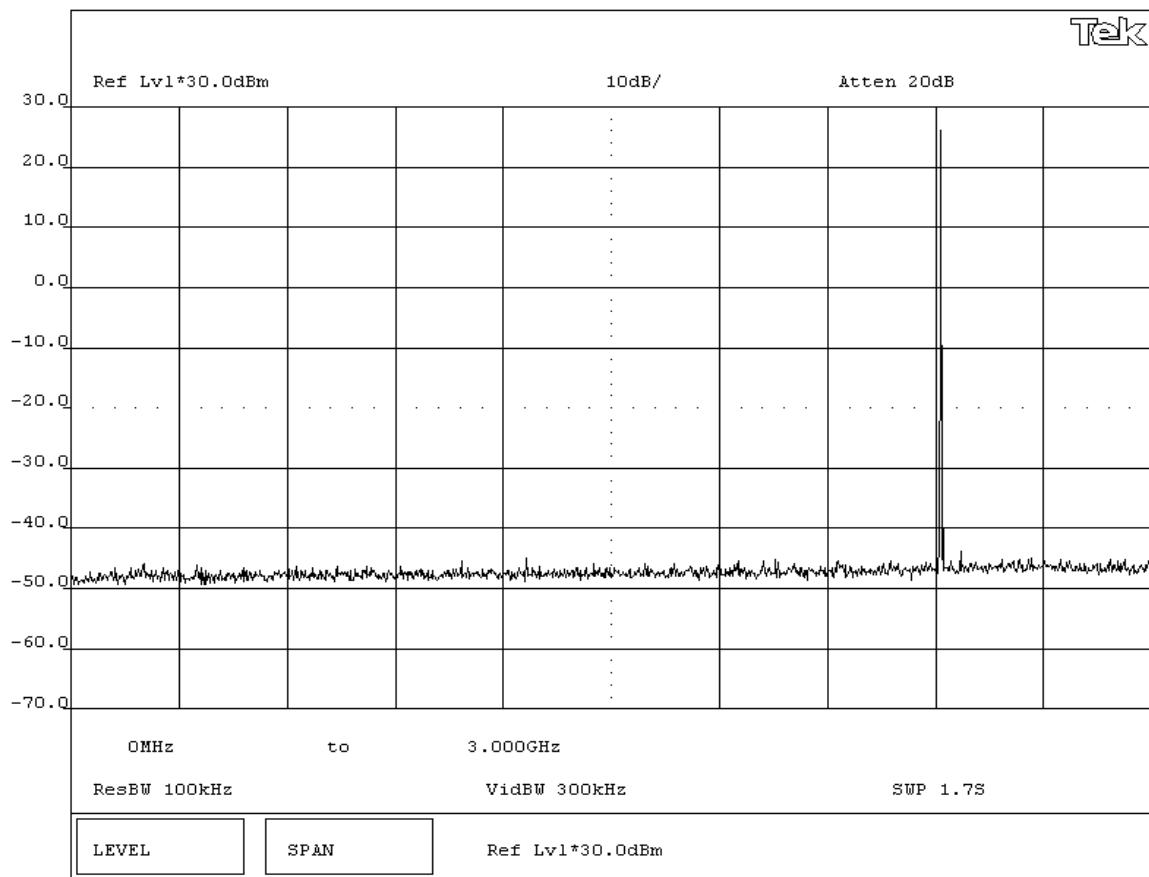
## RESU

Pass

Tested By:

## DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 0MHz-3GHz

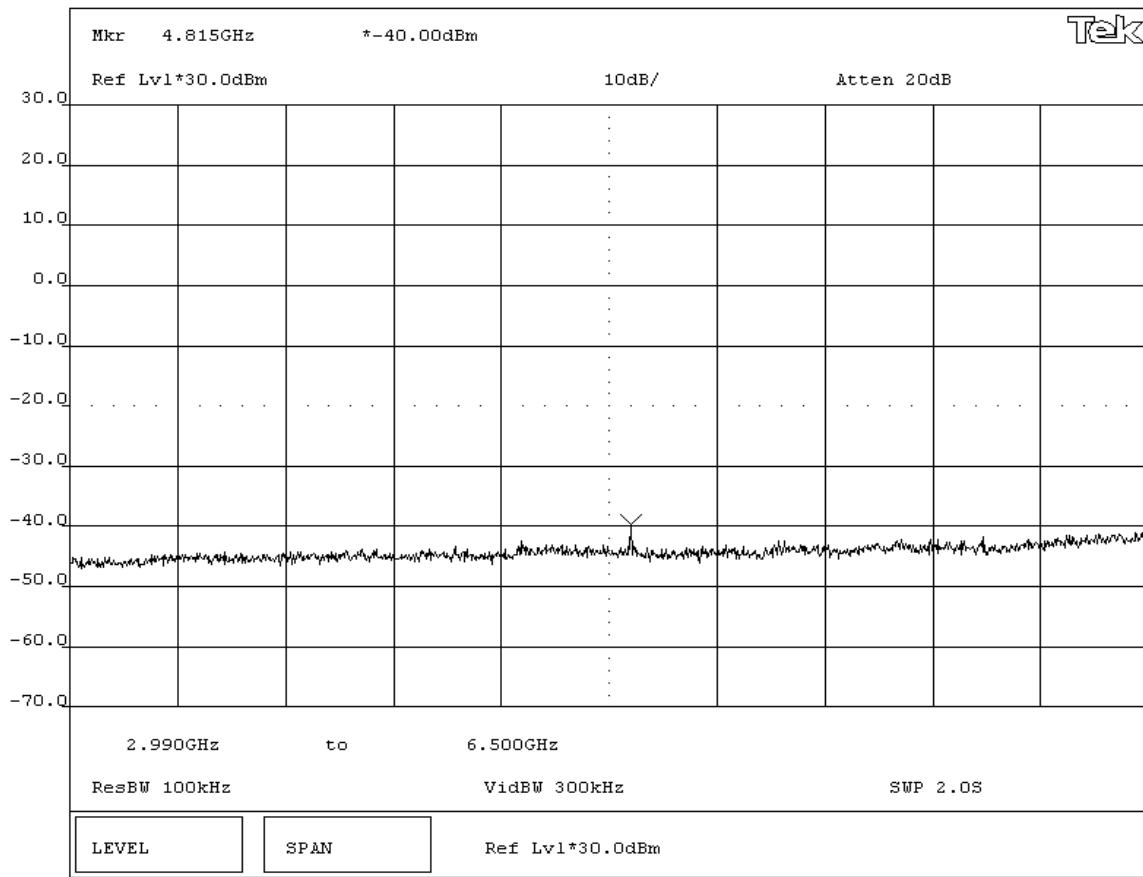


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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX4 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

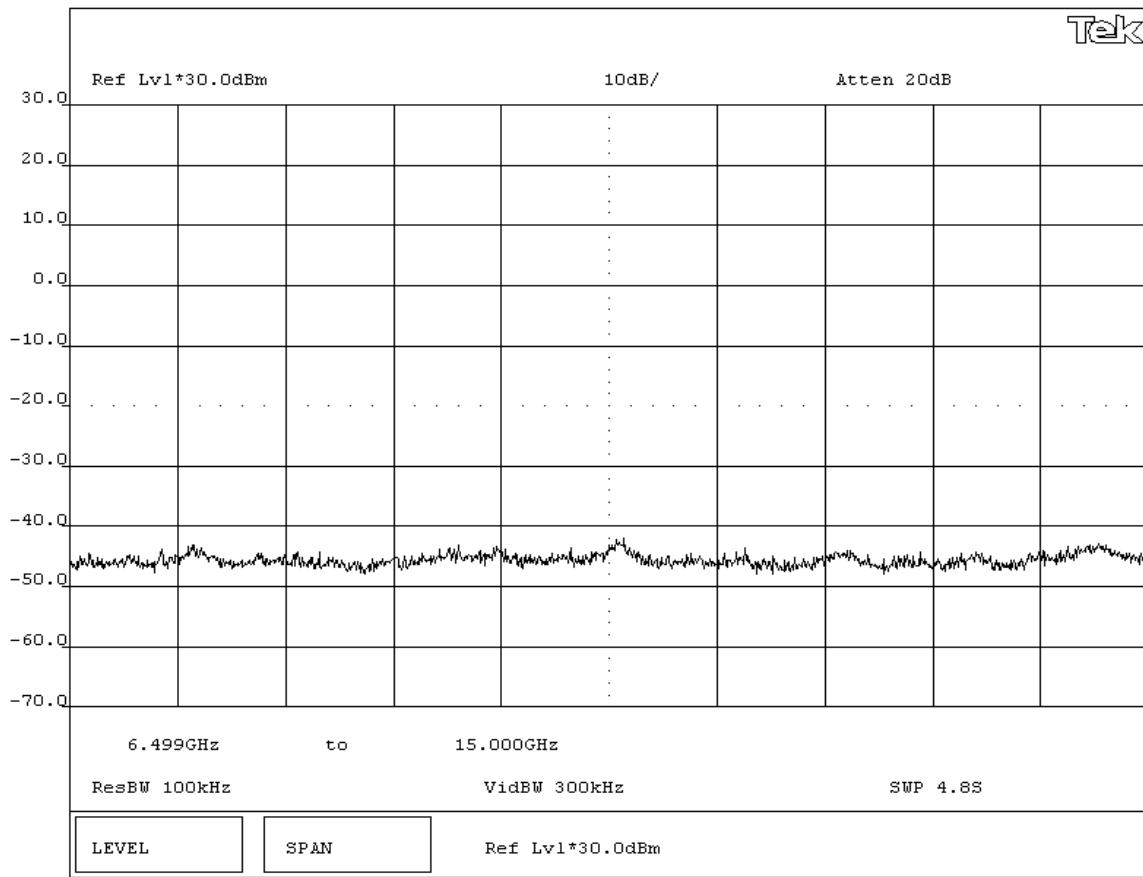
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX4 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT: 2.4 GHz RFID Reader	Work Order: IDMI0005
Serial Number: 32695	Date: 11/03/04
Customer: <b>Idmico, INC.</b>	Temperature: 68
Attendees: Tom Kearns	Humidity: 40%
Customer Ref. No.: N/A	Power: 120VAC/60Hz
	Job Site: EV06

## TEST SPECIFICATIONS

**Specification:** 47 CFR 15.247(d)      **Year:** 2004      **Method:** DA 00-705, ANSI C63.4      **Year:** 2003

## SAMPLE CALCULATIONS

## CRM 2013 GROWTH HIGHLIGHTS

1. *What is the primary purpose of the study?*

1. *What is the relationship between the two characters?*

## COMMENTS

### Measurement made at TX4

## **FUT OPERATING N**

### Return link (no hop mode)

## DEVIATIONS FROM

### DEVIATIONS FROM TEST

**None**

## REQUIREMENTS

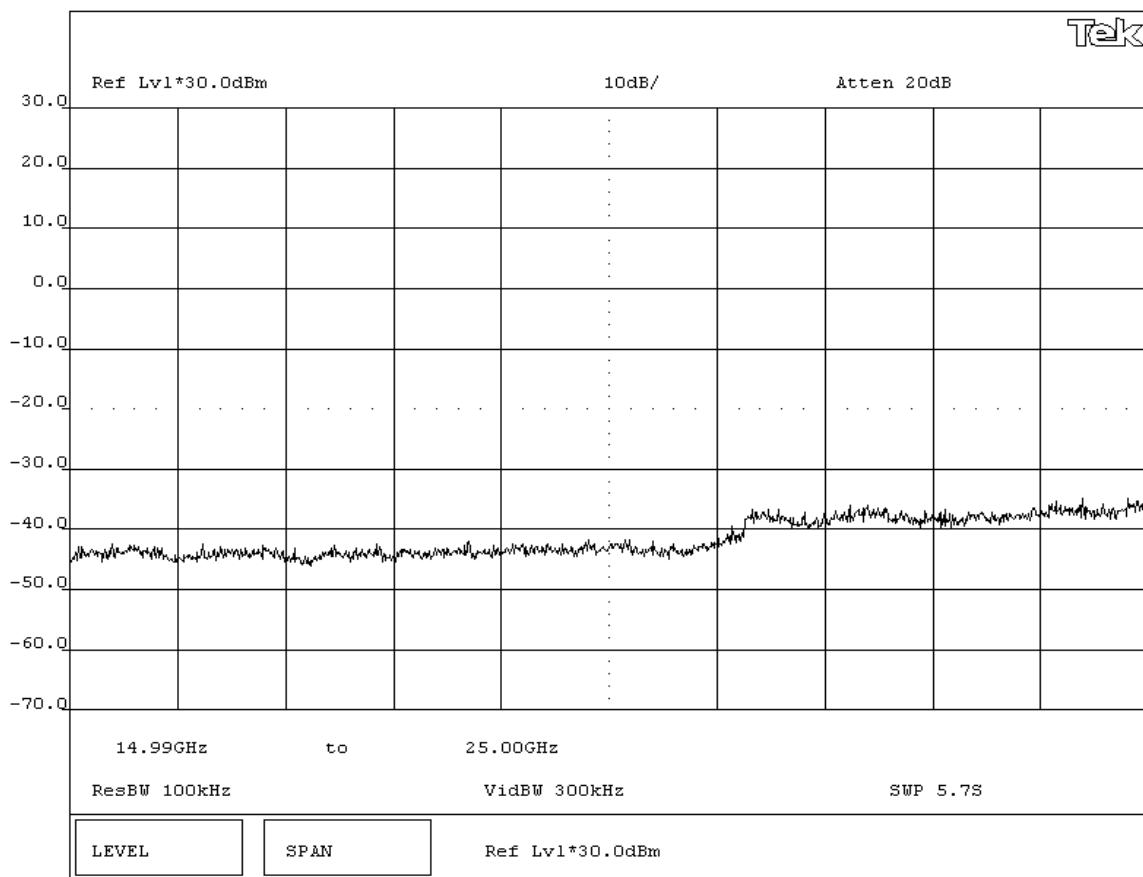
### Maximum level

## RESULTS

Tested By:

### DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 15GHz - 25GHz

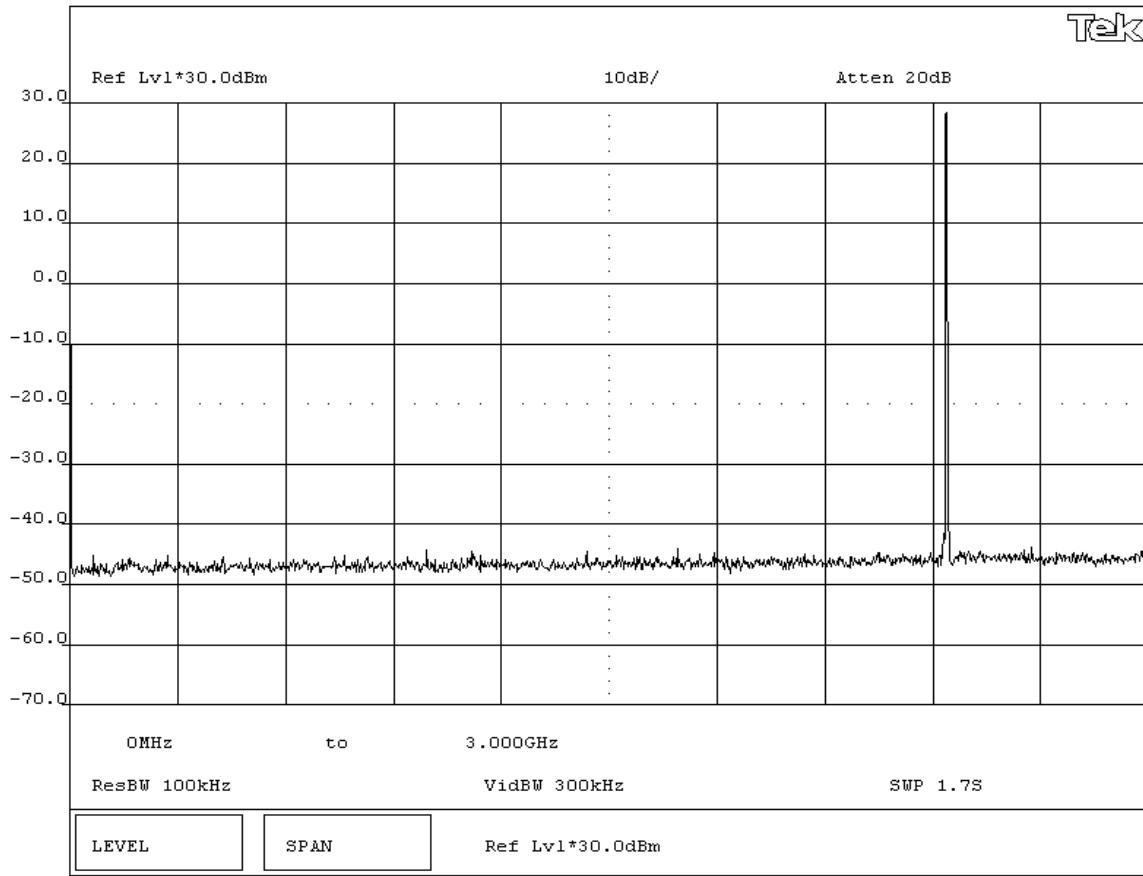


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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX4 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 0MHz-3GHz					



KNOB 2

KNOB 1

KEYPAD

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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT: 2.4 GHz RFID Reader	Work Order: IDM10005
Serial Number: 32695	Date: 11/03/04
Customer: Idmicro, INC.	Temperature: 68
Attendees: Tom Kearns	Humidity: 40%
Customer Ref. No.: N/A	Power: 120VAC/60Hz

## TEST SPECIFICATIONS

Specification: 47 CFR 15.247(d) Year: 2004 Method: DA 00-705, ANSI C63.4 Year: 2003

## SAMPLE CALCULATIONS

## COMMENTS

Measurement made at TX4 Antenna Port

## EUT OPERATING MODES

Return link (no hop mode)

## DEVIATIONS FROM TEST STANDARD

None

## REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

## RESULTS

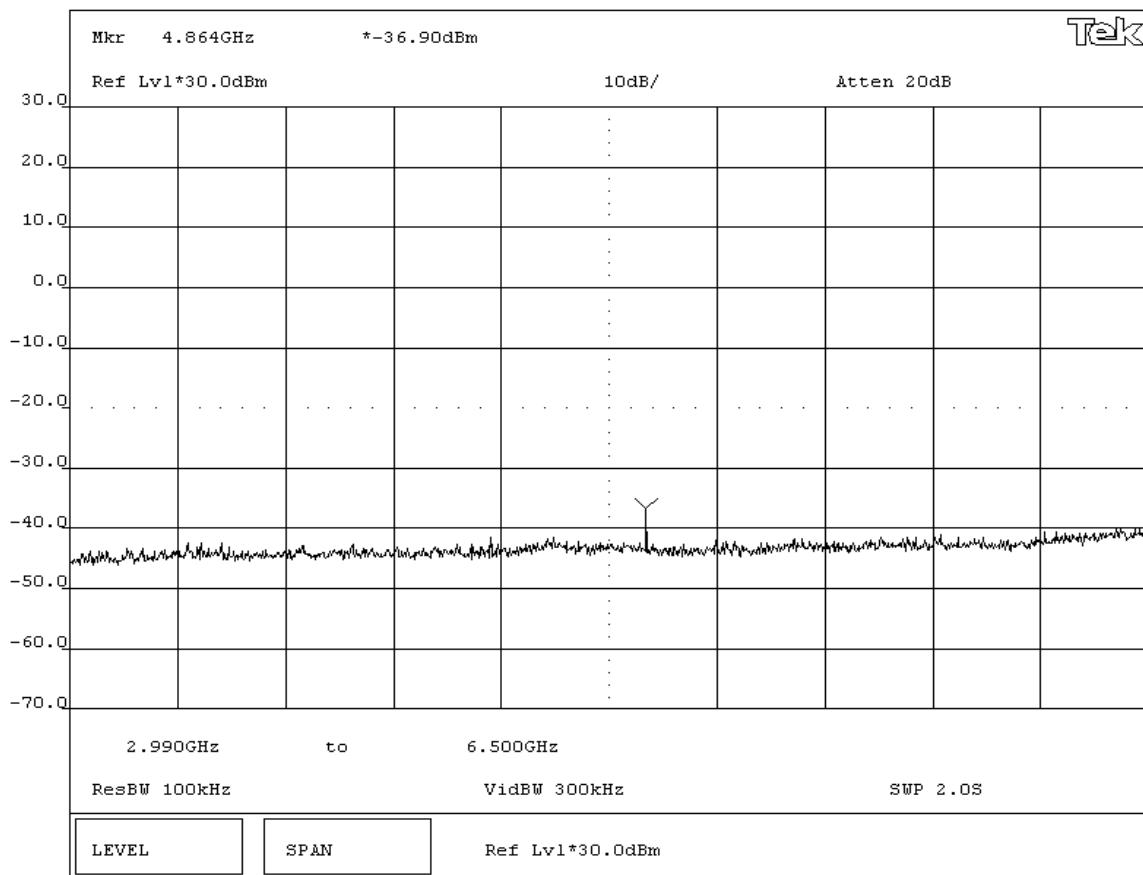
Pass

## SIGNATURE

Tested By: 

## DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 3GHz-6.5GHz



KNOB 2

KNOB 1

KEYPAD

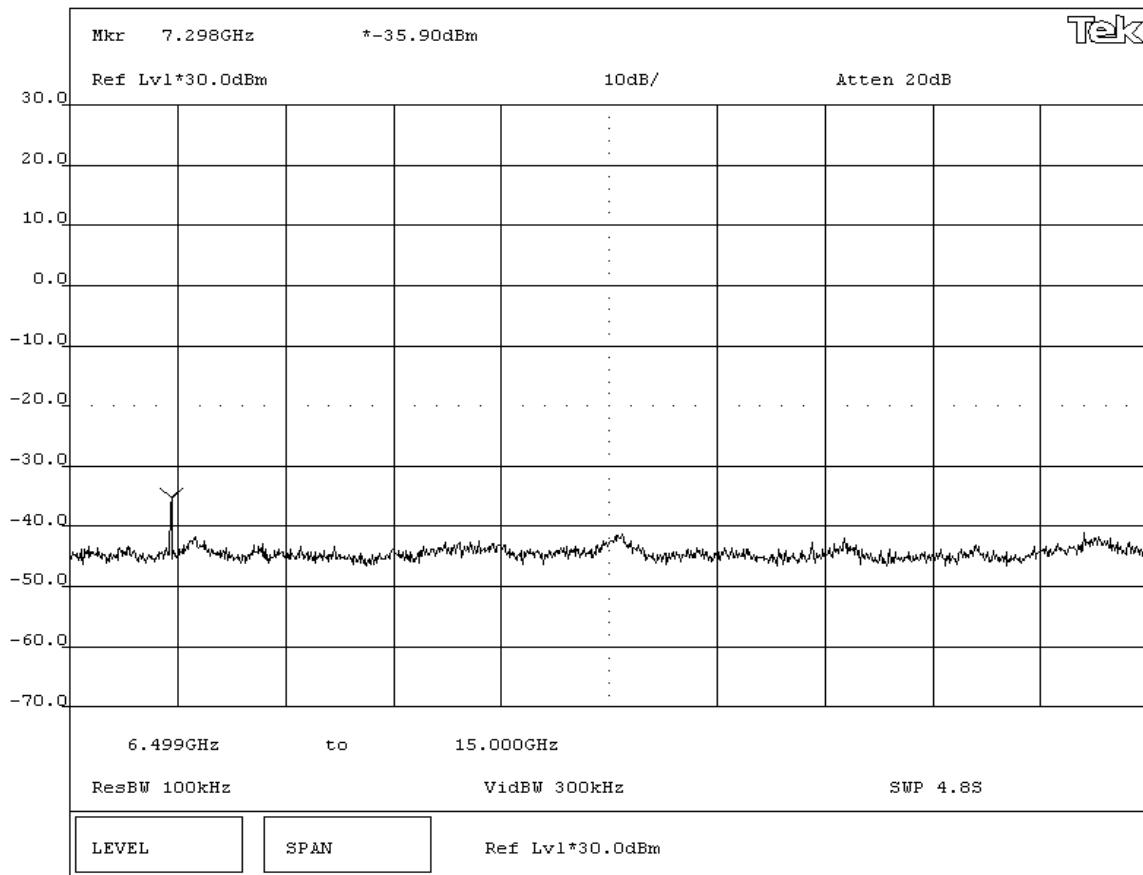
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX4 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

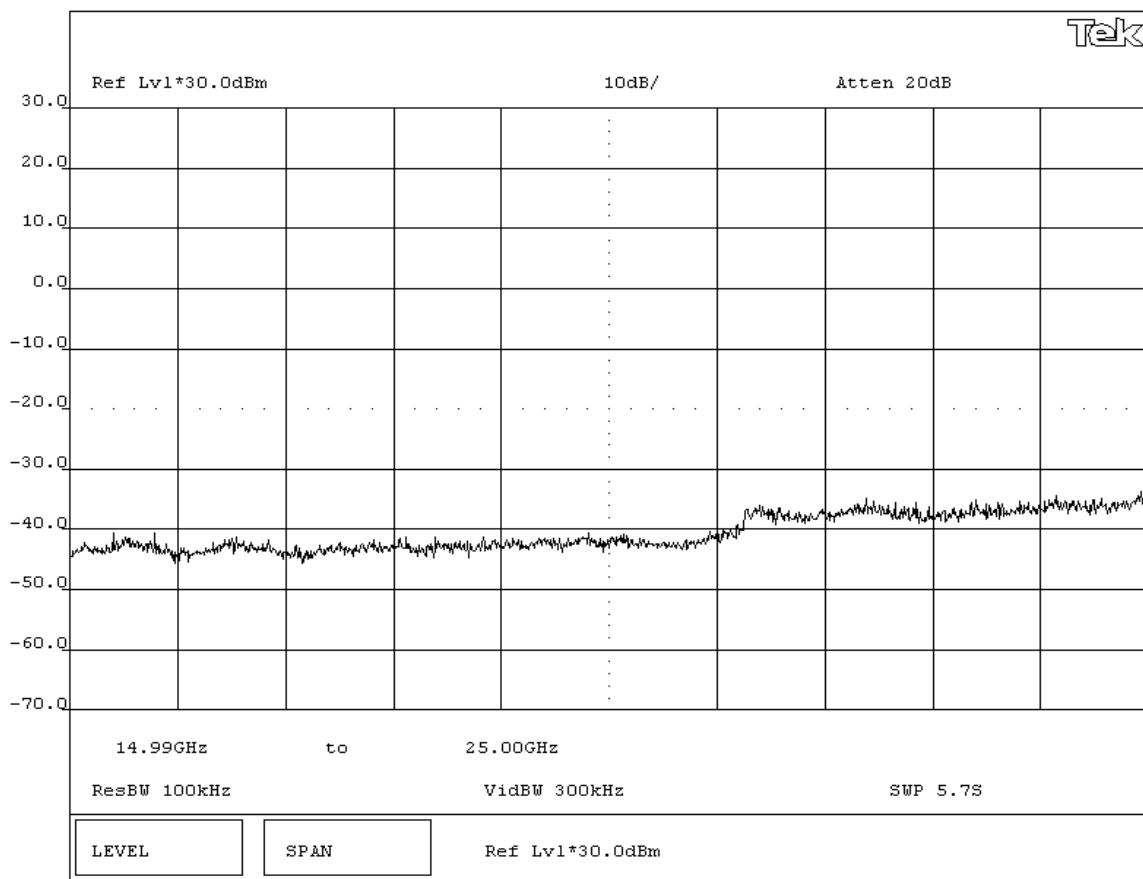
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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX4 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz					



KNOB 2

KNOB 1

KEYPAD

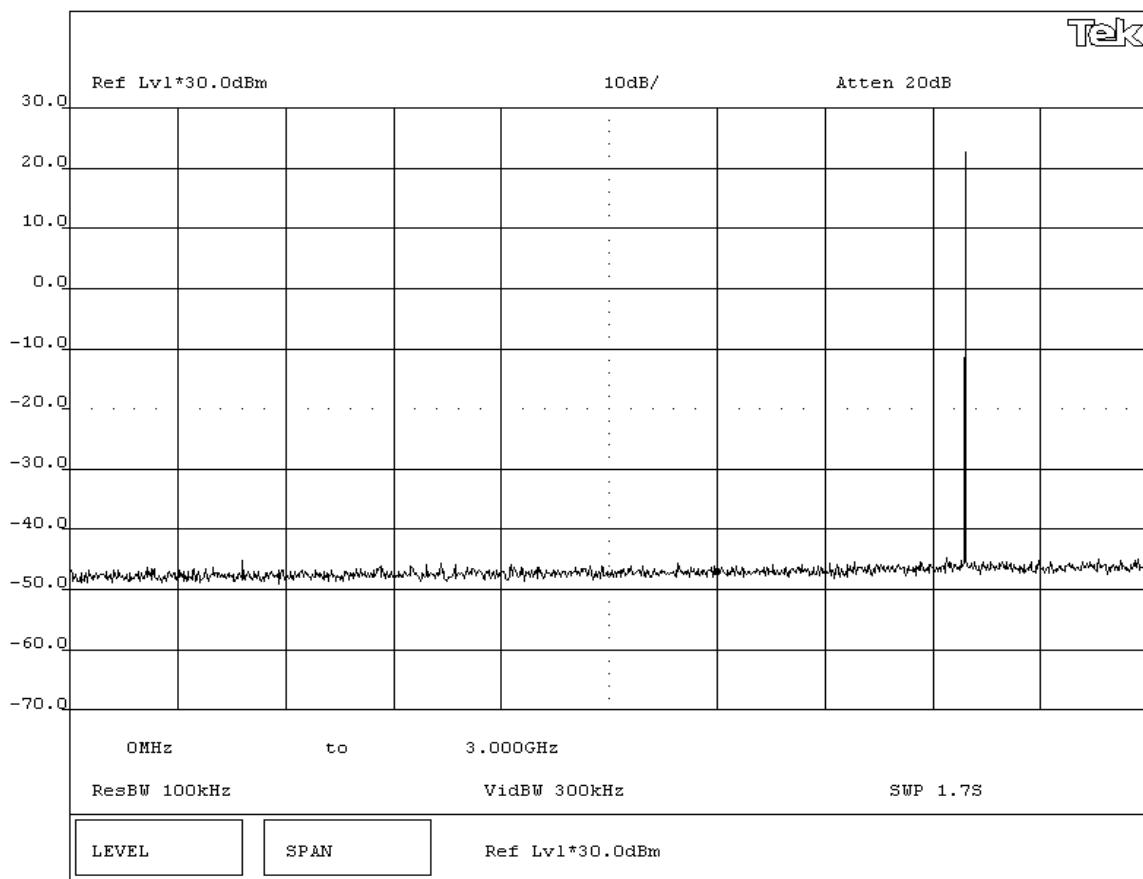
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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS					
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX4 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz					



KNOB 2

KNOB 1

KEYPAD

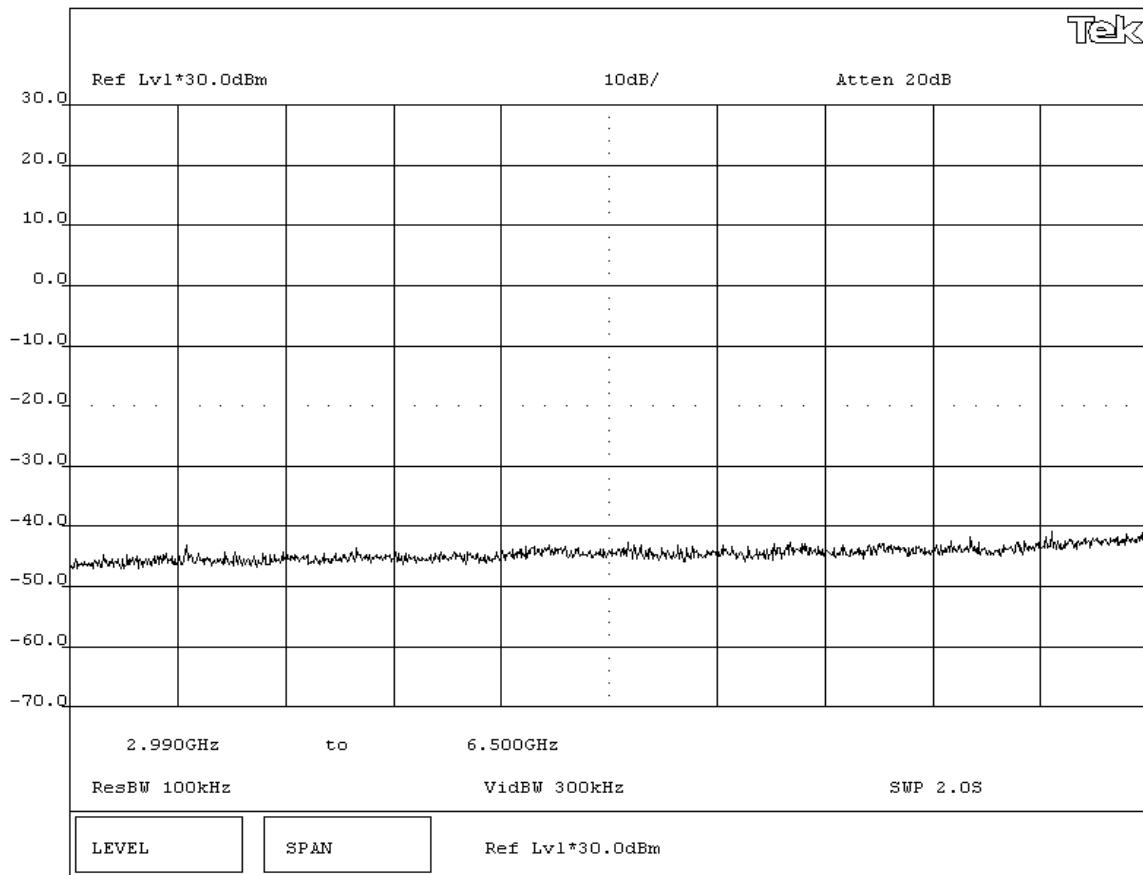
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX4 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

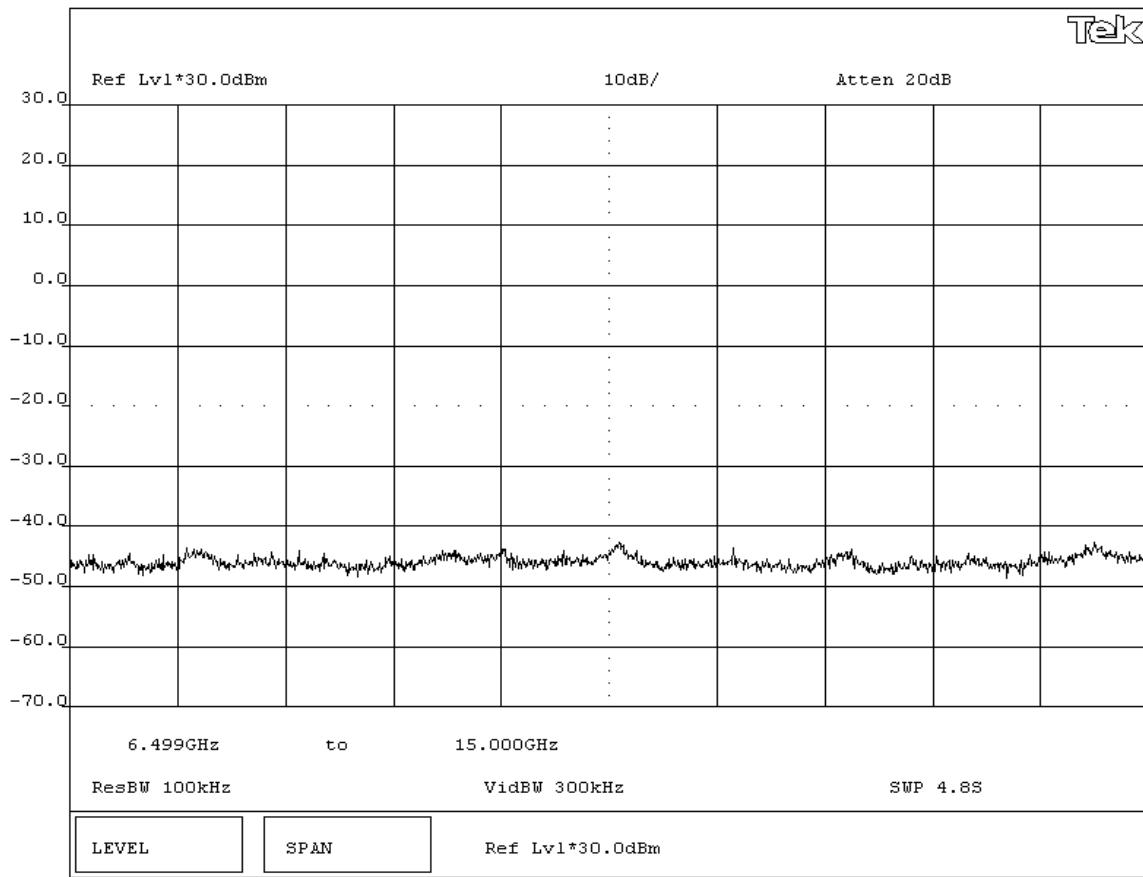
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX4 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

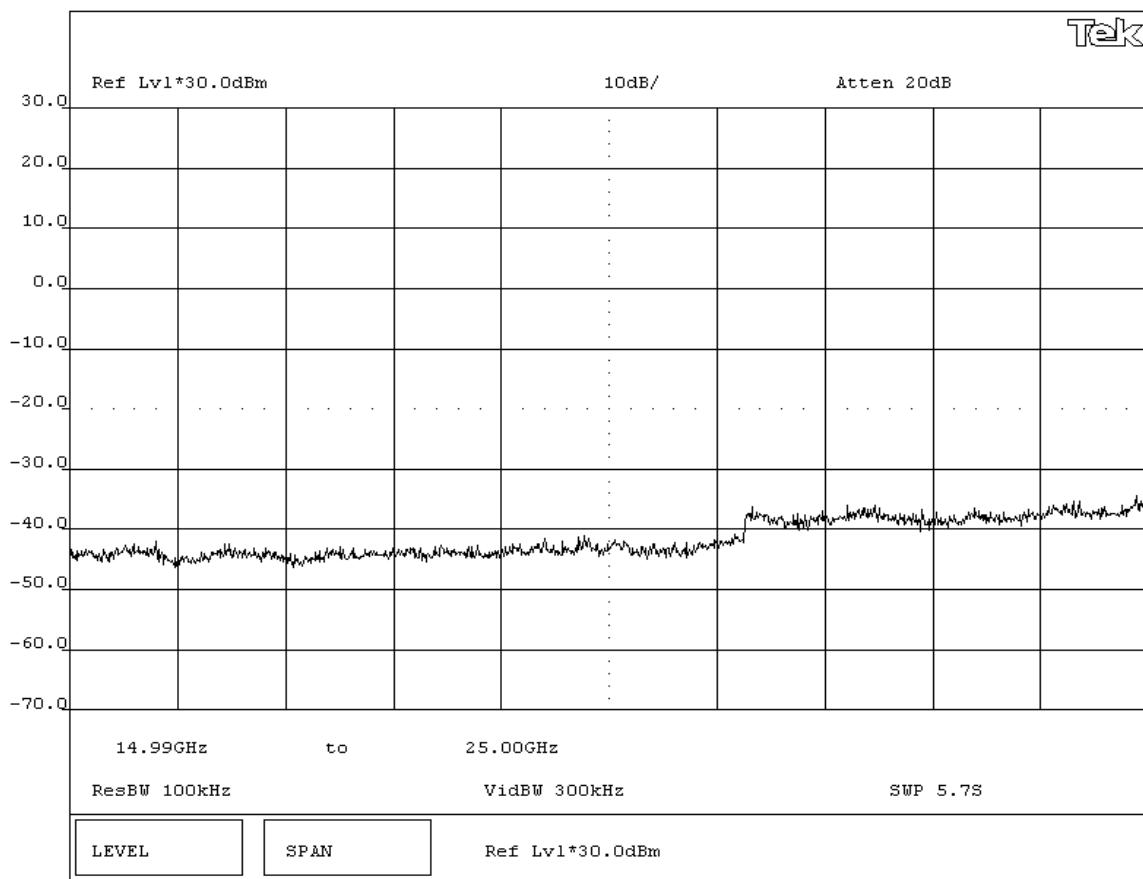
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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX4 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz					



KNOB 2

KNOB 1

KEYPAD

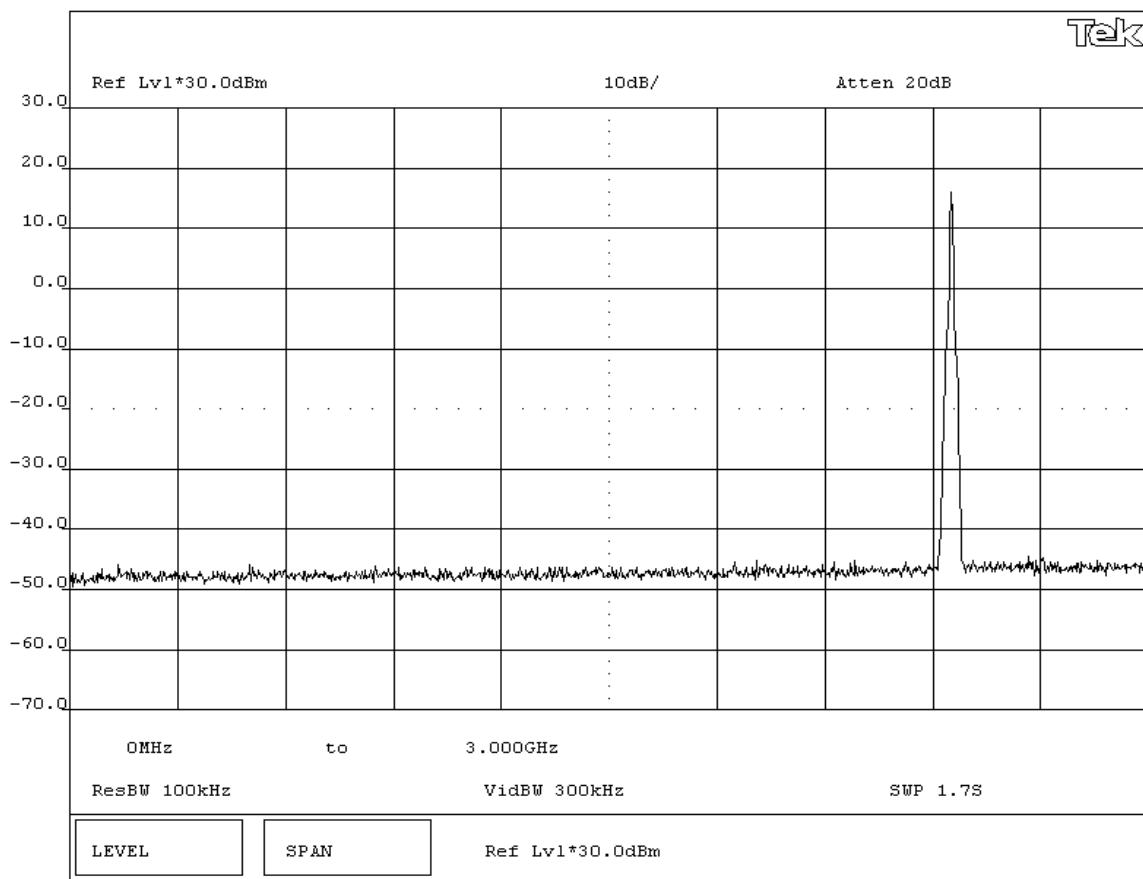
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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX4 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz					



KNOB 2

KNOB 1

KEYPAD

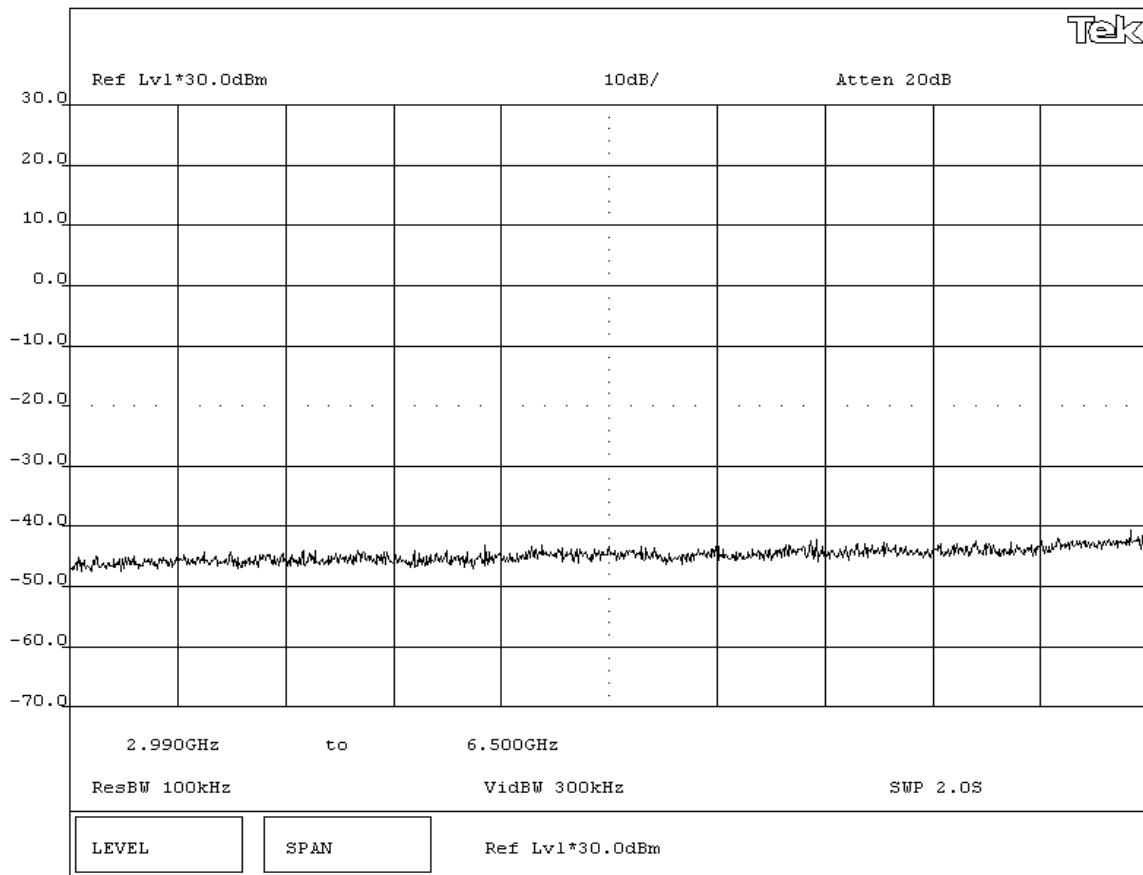
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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX4 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

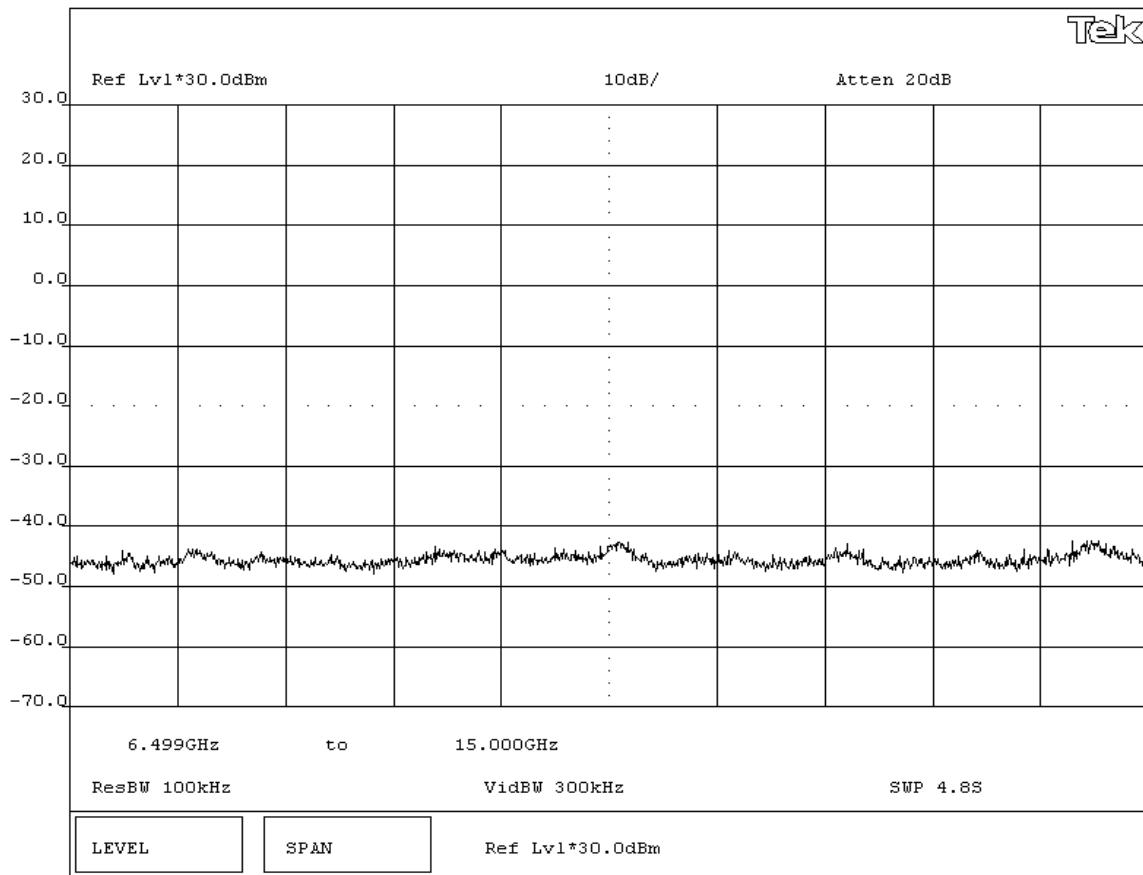
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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX4 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

Tektronix 2784

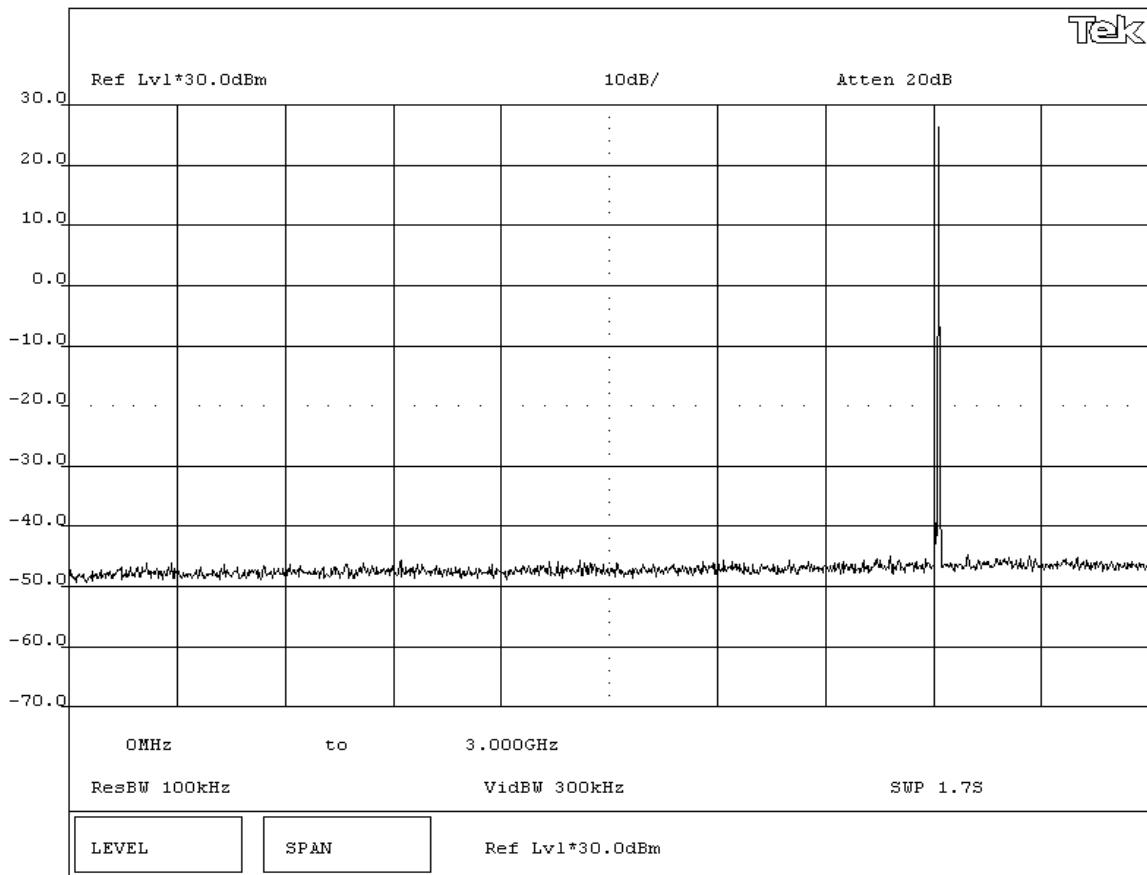


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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005		
Serial Number:	32695			Date:	11/03/04		
Customer:	Idmicro, INC.			Temperature:	68		
Attendees:	Tom Kearns		Tested by:	Greg Kiemel		Humidity:	40%
Customer Ref. No.:	N/A		Power:	120VAC/60Hz		Job Site:	EV06
<b>TEST SPECIFICATIONS</b>							
Specification:	47 CFR 15.247(d)	Year:	2004	Method:	DA 00-705, ANSI C63.4	Year:	2003
<b>SAMPLE CALCULATIONS</b>							
<b>COMMENTS</b>							
Measurement made at TX5 Antenna Port							
<b>EUT OPERATING MODES</b>							
Return link (no hop mode)							
<b>DEVIATIONS FROM TEST STANDARD</b>							
None							
<b>REQUIREMENTS</b>							
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental							
<b>RESULTS</b>							
Pass							
<b>SIGNATURE</b>							
 Tested By: _____							
<b>DESCRIPTION OF TEST</b>							
Antenna Conducted Spurious Emissions - Low Channel 0MHz-3GHz							



KNOB 2

KNOB 1

KEYPAD

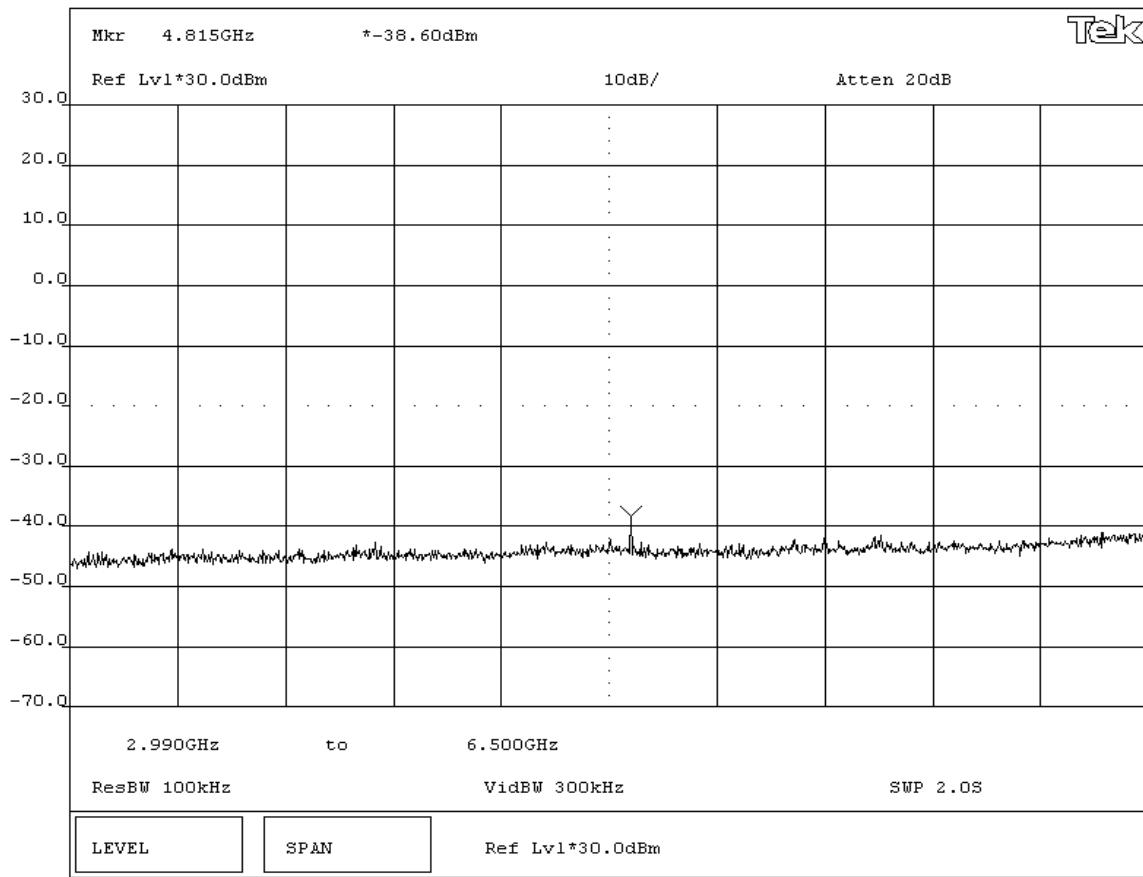
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX5 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

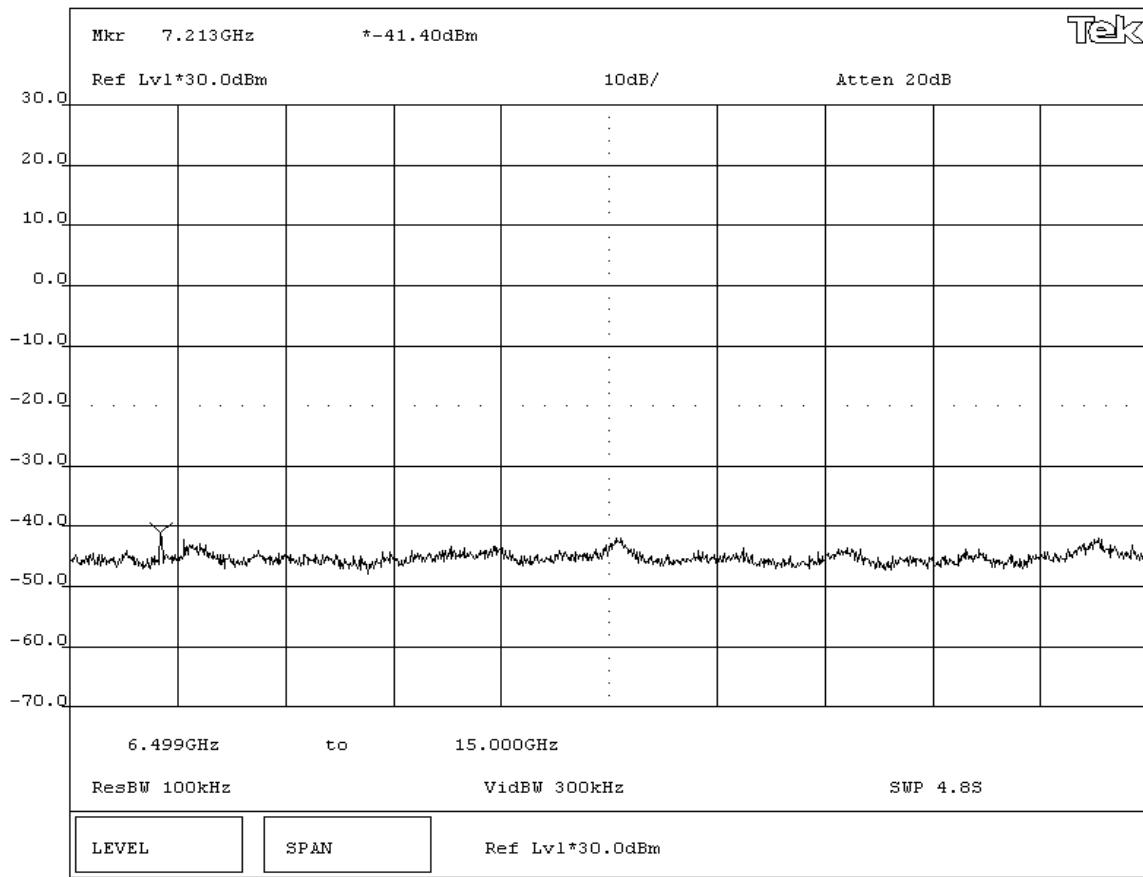
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX5 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

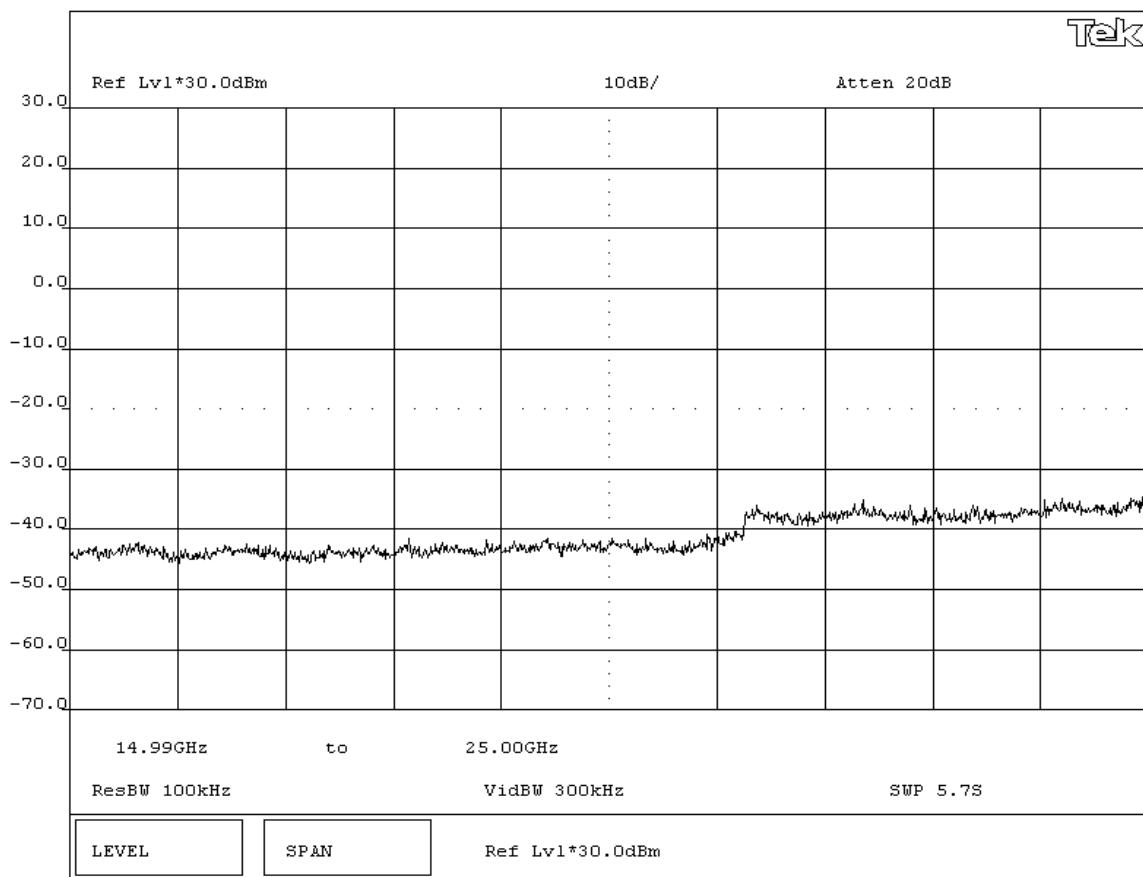
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX5 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 15GHz - 25GHz					



KNOB 2

KNOB 1

KEYPAD

Tektronix 2784

**NORTHWEST  
EMC**

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT: 2.4 GHz RFID Reader	Work Order: IDMI0005
Serial Number: 32695	Date: 11/03/04
Customer: Idmico, INC.	Temperature: 68
Attendees: Tom Kearns	Humidity: 40%
Customer Ref. No.: N/A	Power: 120VAC/60Hz
	Job Site: EV06

## TEST SPECIFICATIONS

Specification: 47 CFR 15.247(d) Year: 2004 Method: DA 00-705, ANSI C63.4 Year: 2003

## SAMPLE CALCULATIONS

## COMMENTS

Measurement made at TX5 Antenna Port

## **FET OPERATING MODES**

## EUI OPERATING MODES

### Return link (no hop mode)

DEVI

**None**

## REQUIREMENTS

### Maximum

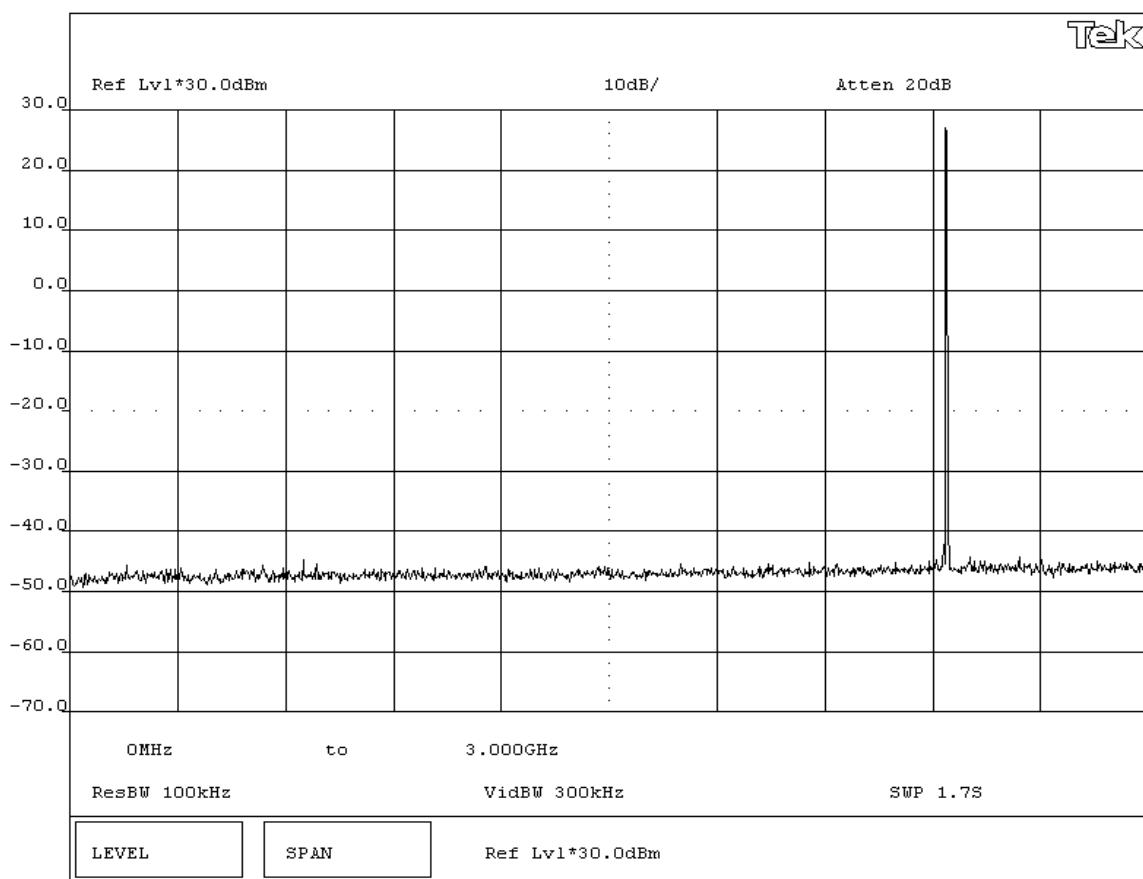
## RESULTS

Page

Tested By:

## DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 0MHz-3GHz



NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT: 2.4 GHz RFID Reader	Work Order: IDM10005
Serial Number: 32695	Date: 11/03/04
Customer: Idmicro, INC.	Temperature: 68
Attendees: Tom Kearns	Humidity: 40%
Customer Ref. No.: N/A	Power: 120VAC/60Hz

## TEST SPECIFICATIONS

Specification: 47 CFR 15.247(d) Year: 2004 Method: DA 00-705, ANSI C63.4 Year: 2003

## SAMPLE CALCULATIONS

## COMMENTS

Measurement made at TX5 Antenna Port

## EUT OPERATING MODES

Return link (no hop mode)

## DEVIATIONS FROM TEST STANDARD

None

## REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

## RESULTS

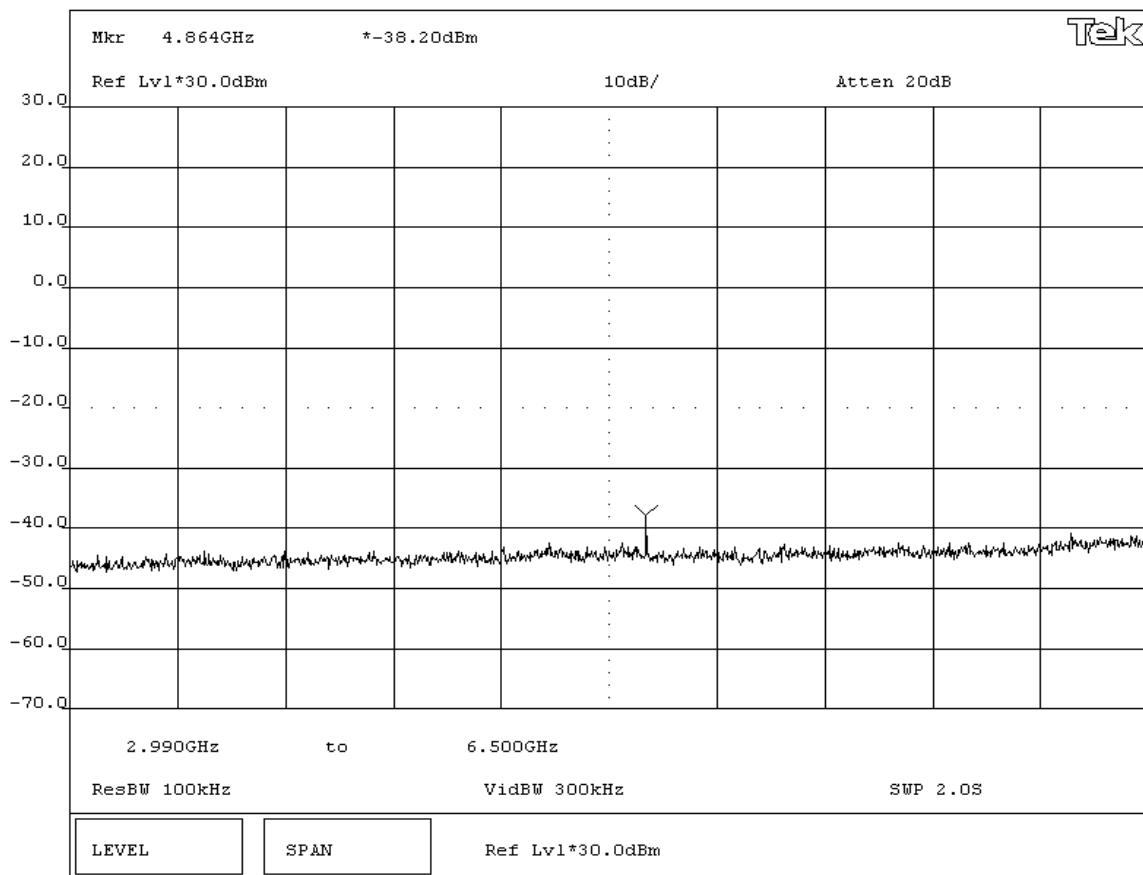
Pass

## SIGNATURE

Tested By: 

## DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 3GHz-6.5GHz



KNOB 2

KNOB 1

KEYPAD

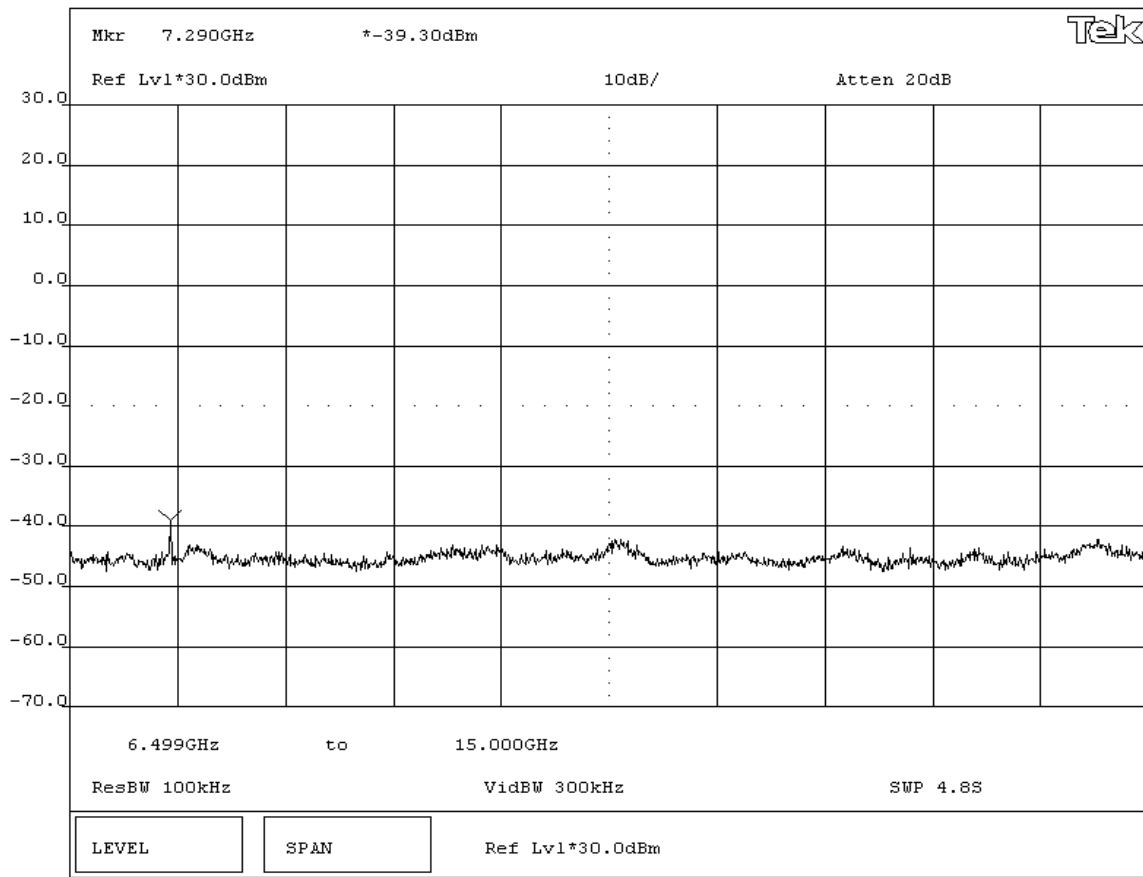
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX5 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

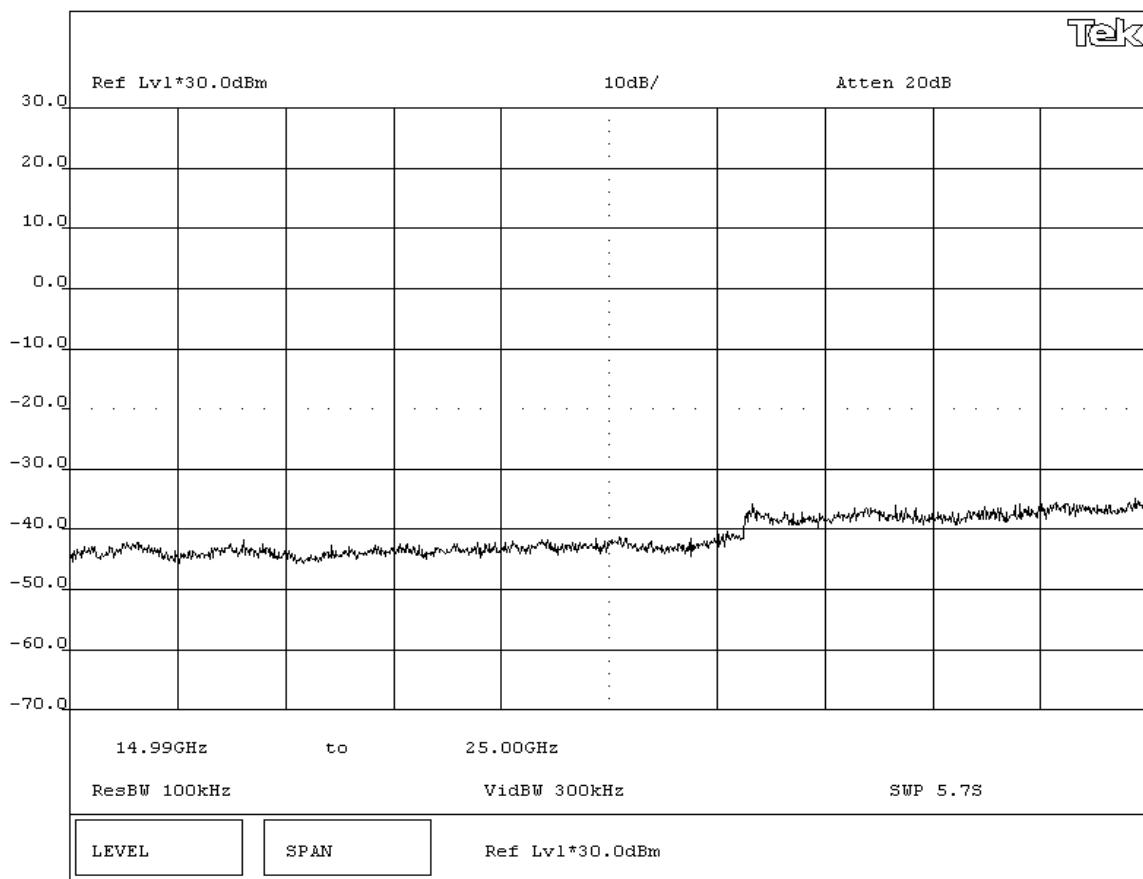
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX5 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz					



KNOB 2

KNOB 1

KEYPAD

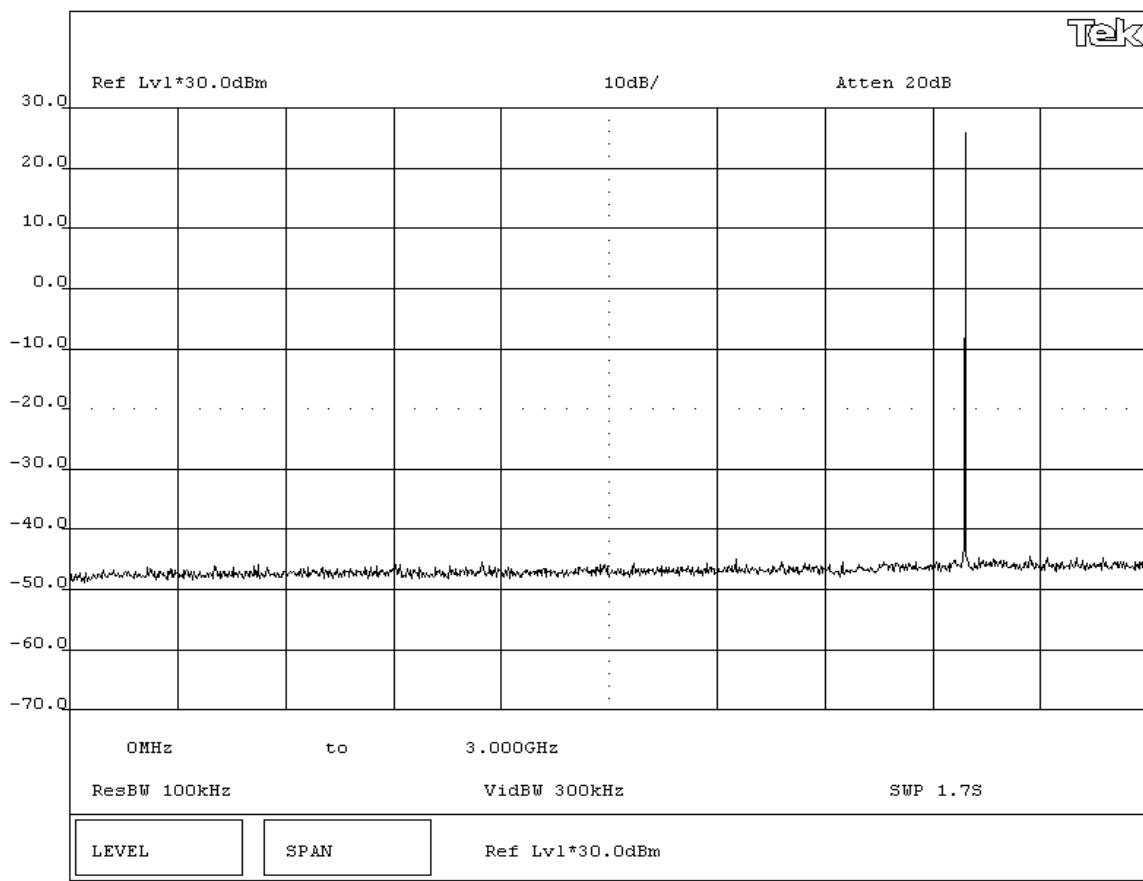
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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader	Work Order:	IDMI0005
Serial Number:	32695	Date:	11/03/04
Customer:	Idmicro, INC.	Temperature:	68
Attendees:	Tom Kearns	Humidity:	40%
Customer Ref. No.:	N/A	Power:	120VAC/60Hz
TEST SPECIFICATIONS		Job Site:	
Specification: 47 CFR 15.247(d)		Method: DA 00-705, ANSI C63.4	
Year: 2004		Year: 2003	
SAMPLE CALCULATIONS			
COMMENTS			
Measurement made at TX5 Antenna Port			
EUT OPERATING MODES			
Return link (no hop mode)			
DEVIATIONS FROM TEST STANDARD			
None			
REQUIREMENTS			
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental			
RESULTS			
Pass			
SIGNATURE			
 Tested By: _____			
DESCRIPTION OF TEST			
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz			



KNOB 2

KNOB 1

KEYPAD

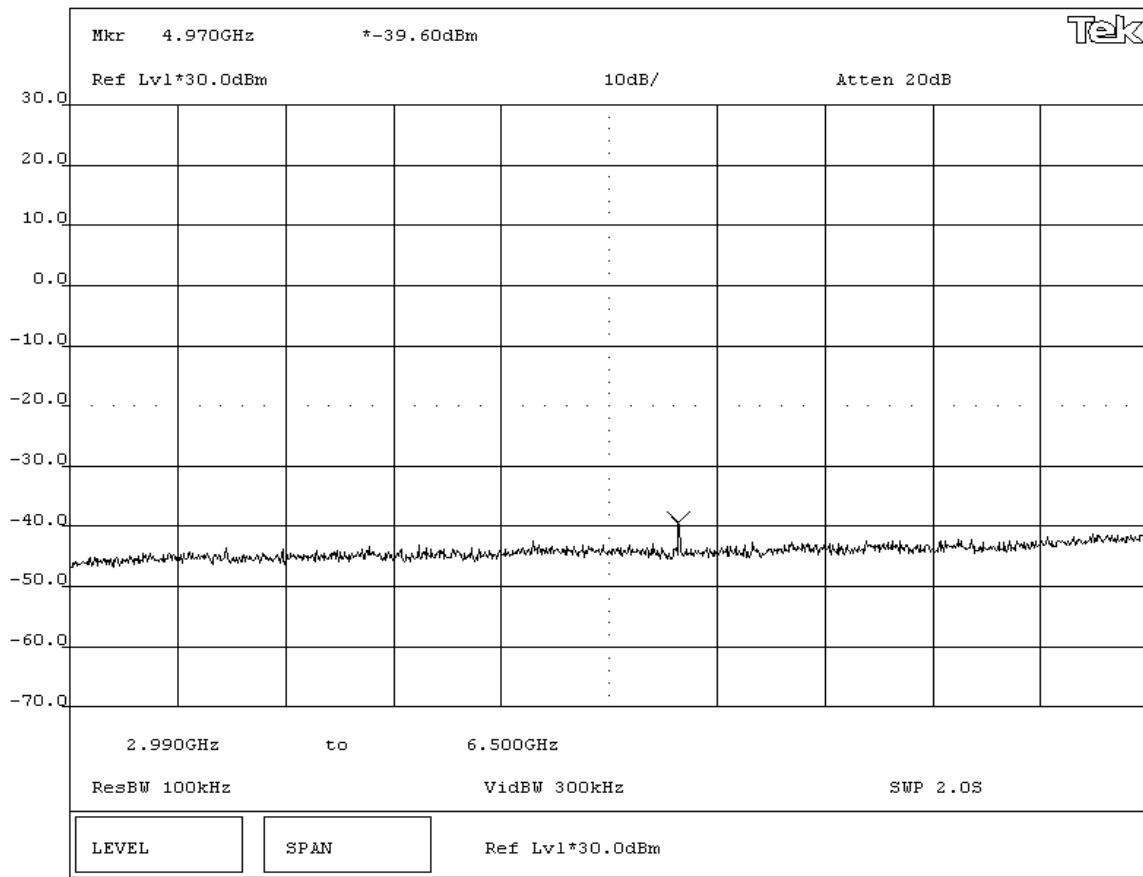
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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX5 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

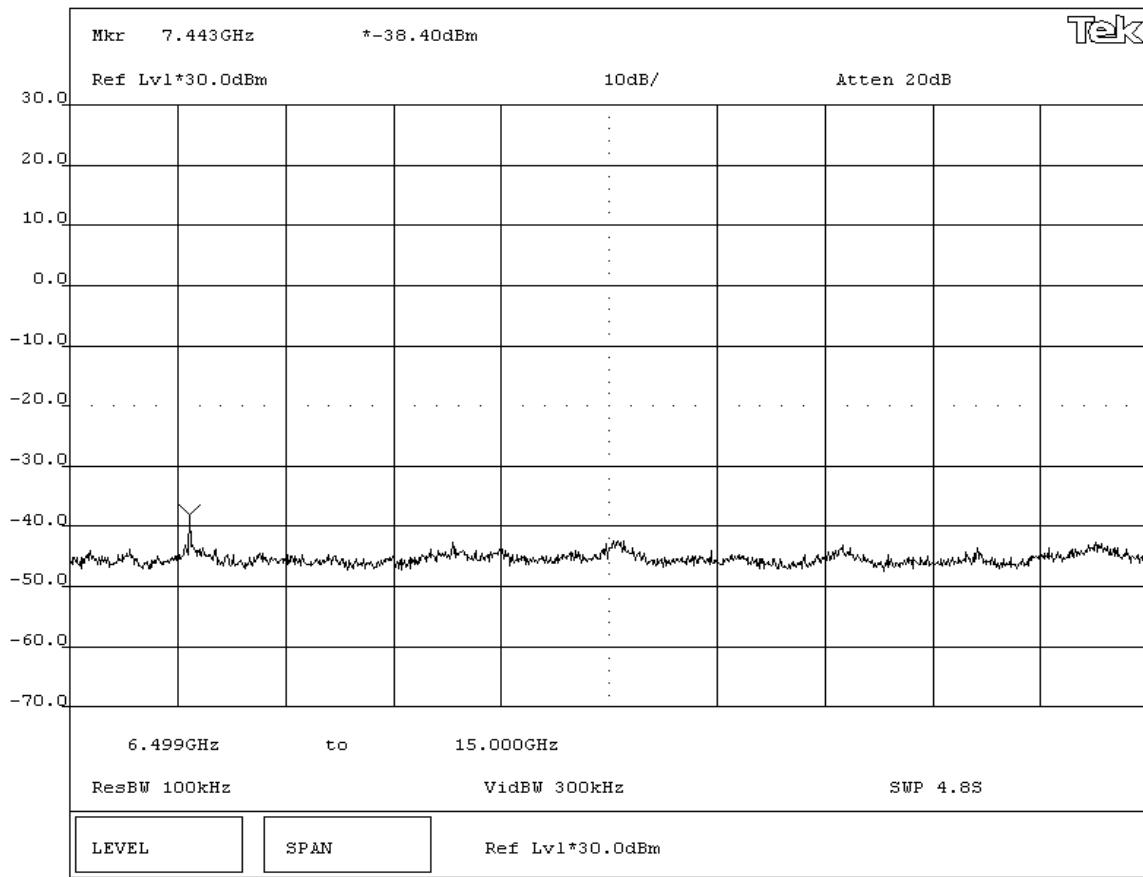
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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX5 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

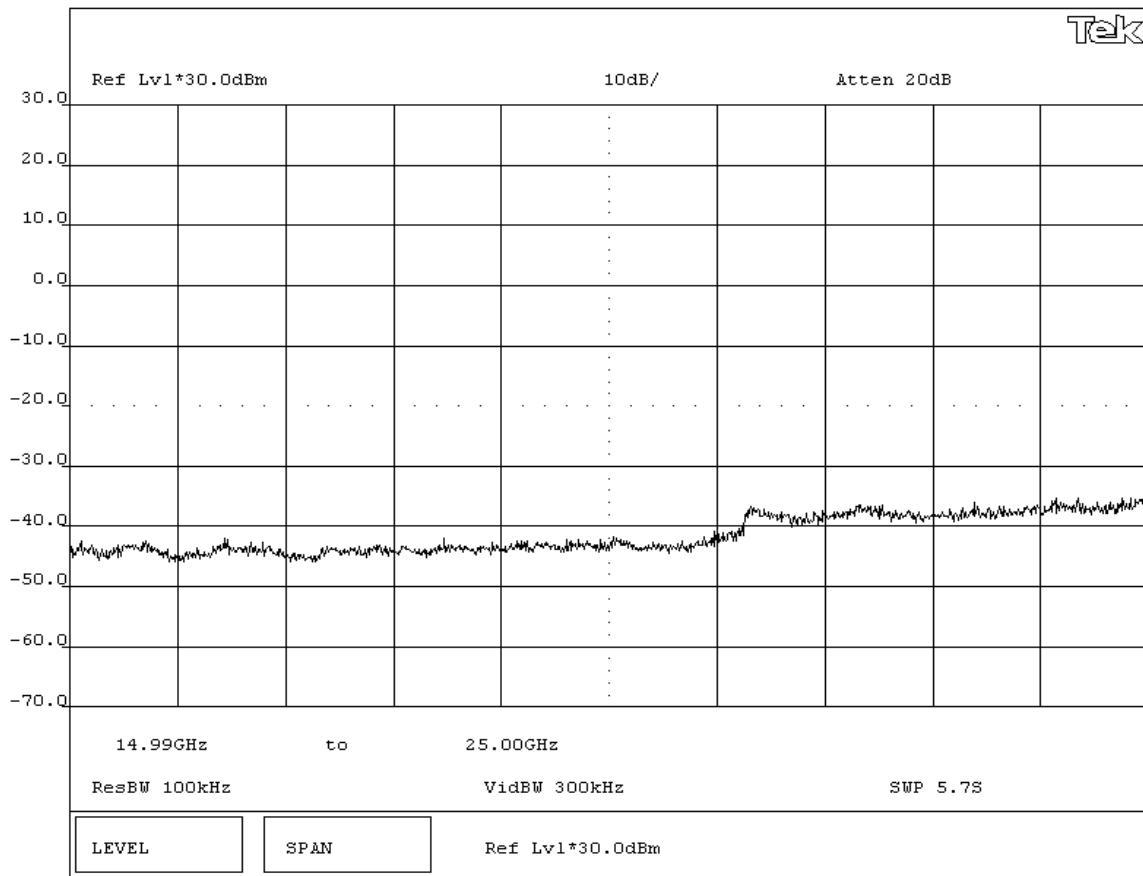
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NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX5 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz					



KNOB 2

KNOB 1

KEYPAD

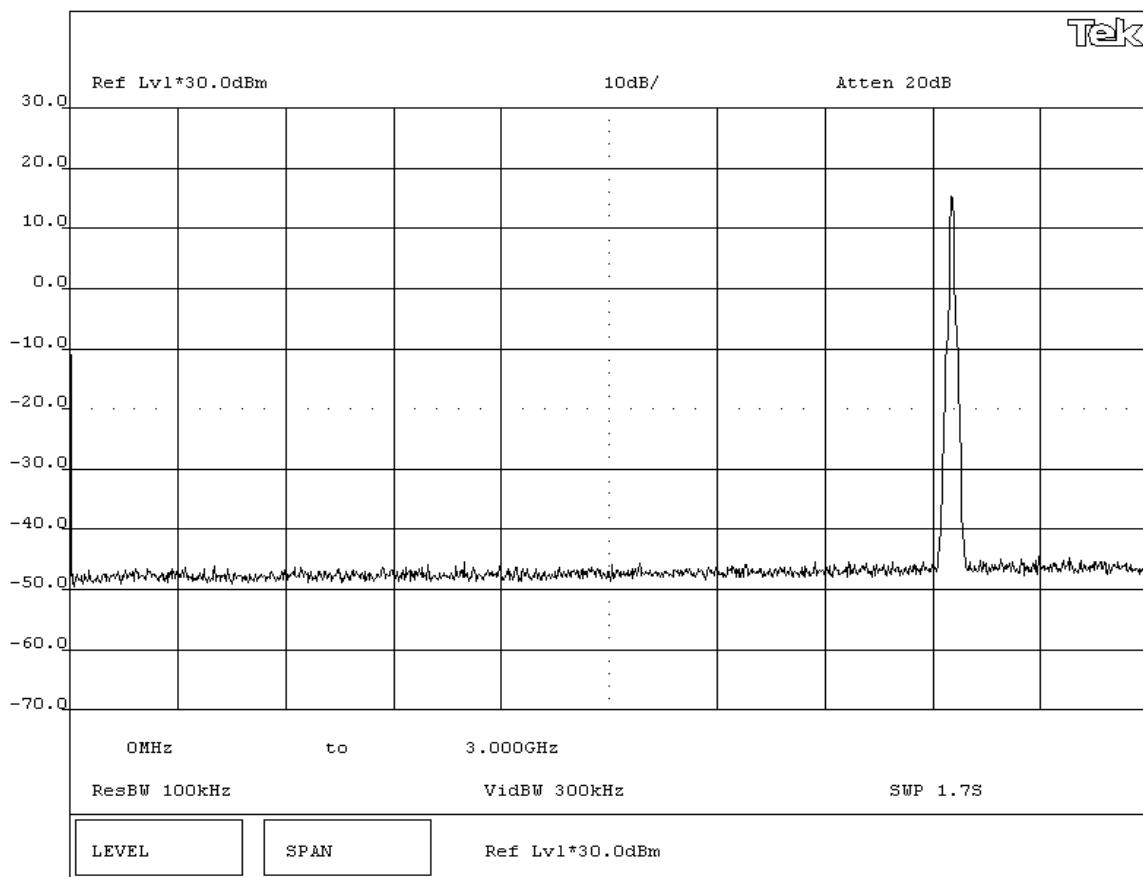
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader	Work Order:	IDMI0005
Serial Number:	32695	Date:	11/03/04
Customer:	Idmicro, INC.	Temperature:	68
Attendees:	Tom Kearns	Humidity:	40%
Customer Ref. No.:	N/A	Power:	120VAC/60Hz
TEST SPECIFICATIONS		Job Site: EV06	
Specification: 47 CFR 15.247(d)		Method: DA 00-705, ANSI C63.4	Year: 2003
SAMPLE CALCULATIONS			
COMMENTS			
Measurement made at TX5 Antenna Port			
EUT OPERATING MODES			
Forward link (DSSS mode)			
DEVIATIONS FROM TEST STANDARD			
None			
REQUIREMENTS			
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental			
RESULTS			
Pass			
SIGNATURE			
 Tested By: _____			
DESCRIPTION OF TEST			
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz			



KNOB 2

KNOB 1

KEYPAD

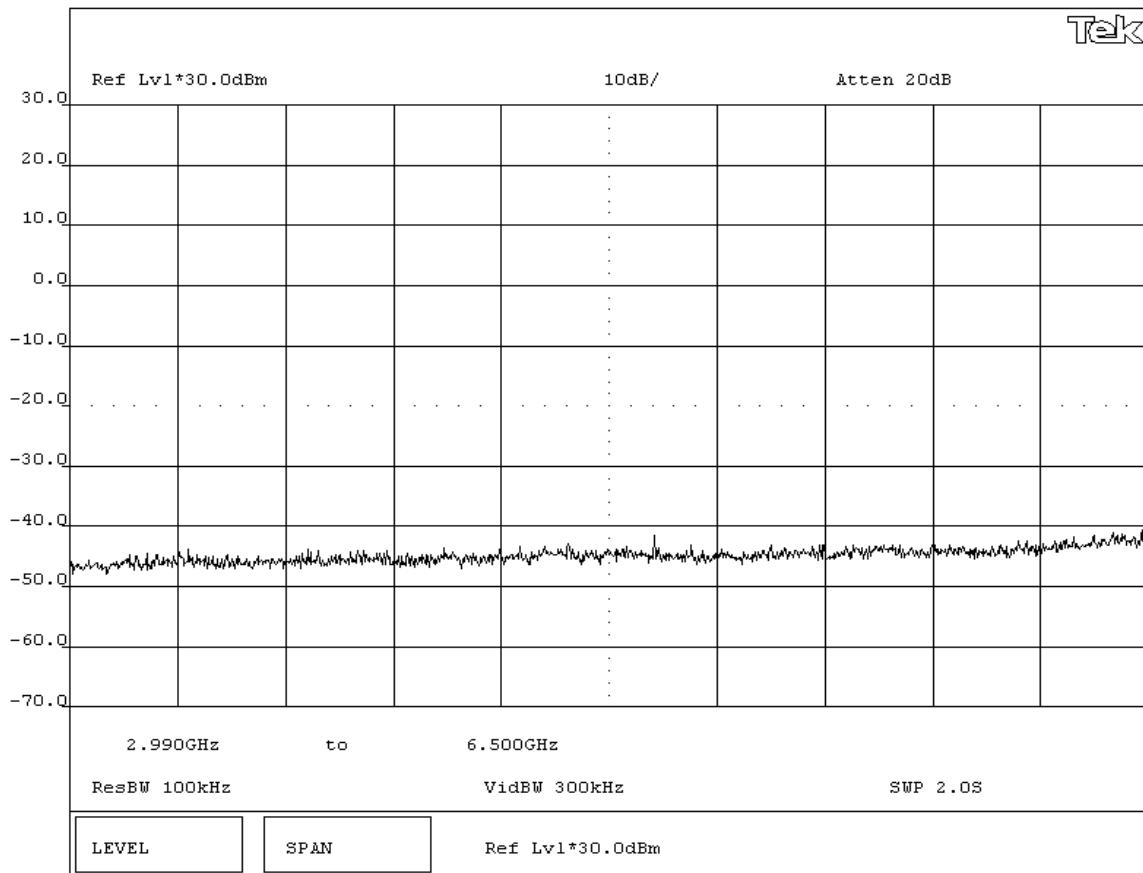
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX5 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

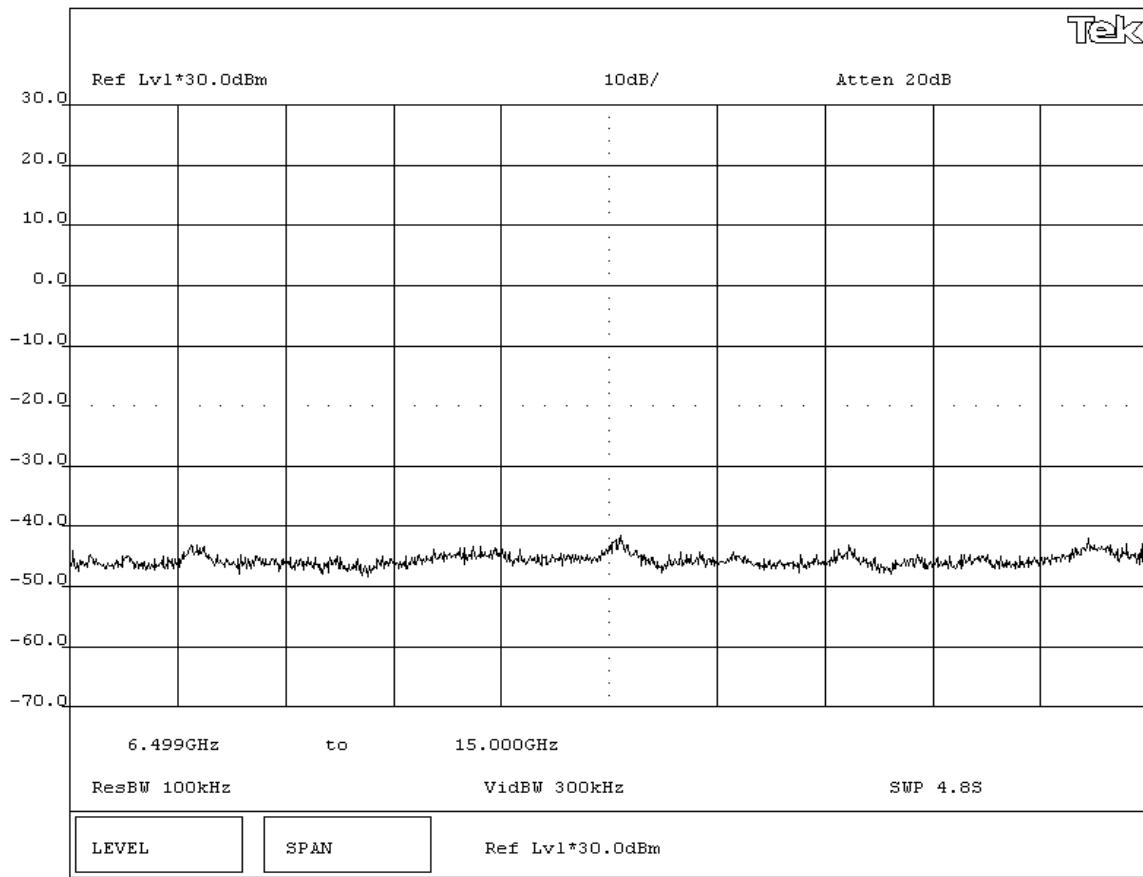
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX5 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

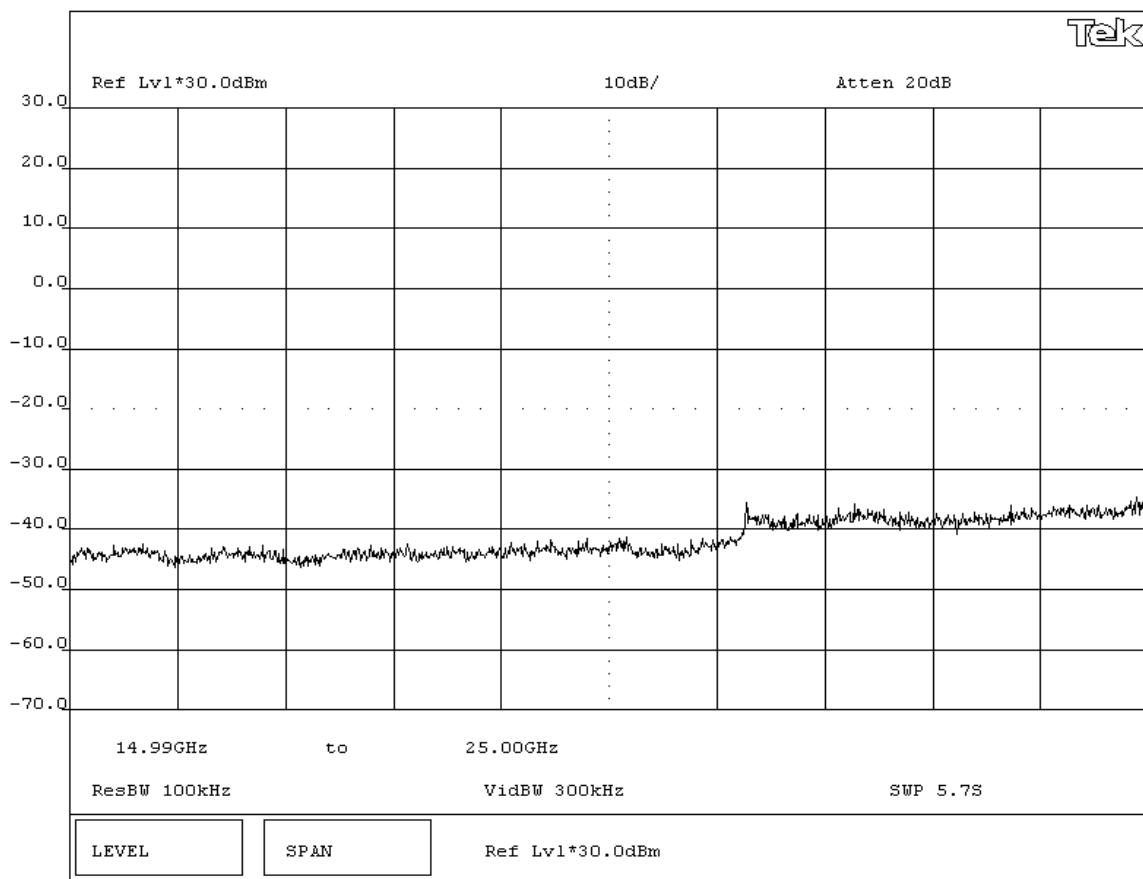
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX5 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz					



KNOB 2

KNOB 1

KEYPAD

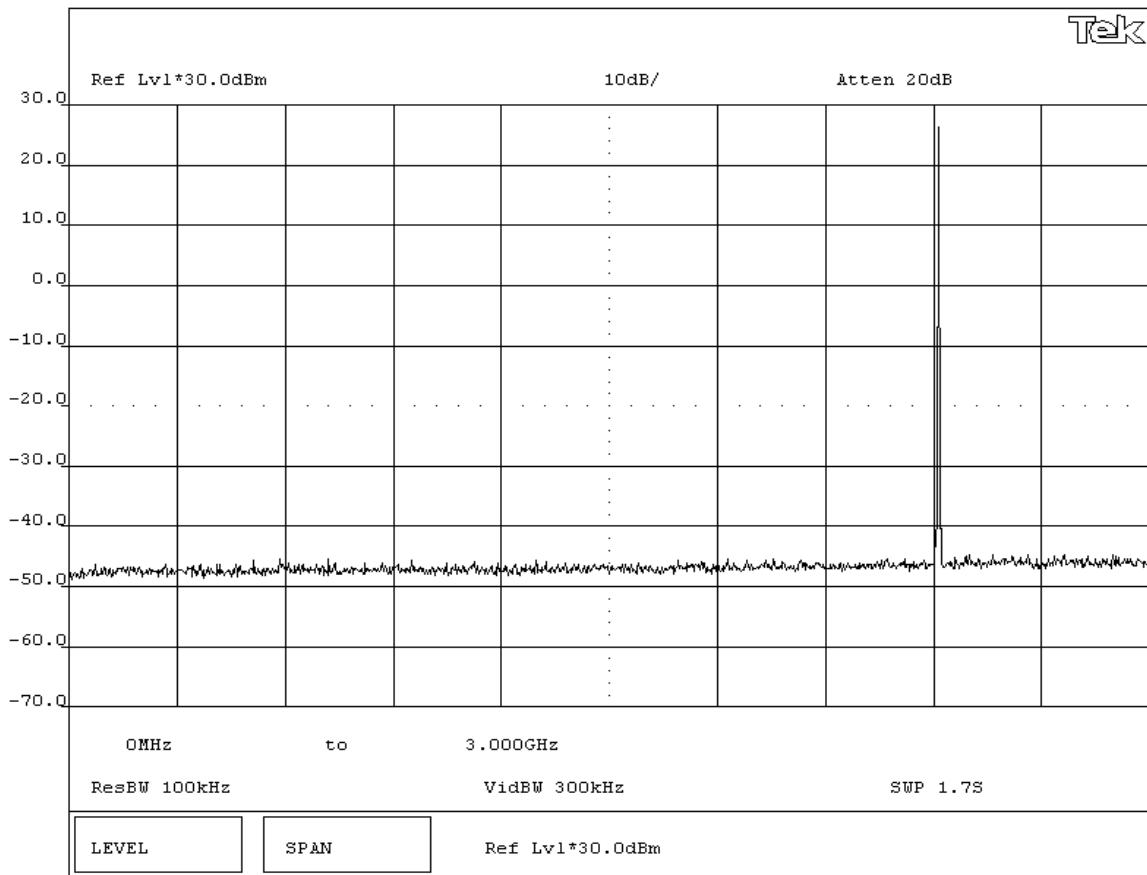
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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005		
Serial Number:	32695			Date:	11/03/04		
Customer:	Idmicro, INC.			Temperature:	68		
Attendees:	Tom Kearns		Tested by:	Greg Kiemel		Humidity:	40%
Customer Ref. No.:	N/A		Power:	120VAC/60Hz		Job Site:	EV06
<b>TEST SPECIFICATIONS</b>							
Specification:	47 CFR 15.247(d)	Year:	2004	Method:	DA 00-705, ANSI C63.4	Year:	2003
<b>SAMPLE CALCULATIONS</b>							
<b>COMMENTS</b>							
Measurement made at TX6 Antenna Port							
<b>EUT OPERATING MODES</b>							
Return link (no hop mode)							
<b>DEVIATIONS FROM TEST STANDARD</b>							
None							
<b>REQUIREMENTS</b>							
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental							
<b>RESULTS</b>							
Pass							
<b>SIGNATURE</b>							
 Tested By: _____							
<b>DESCRIPTION OF TEST</b>							
Antenna Conducted Spurious Emissions - Low Channel 0MHz-3GHz							



KNOB 2

KNOB 1

KEYPAD

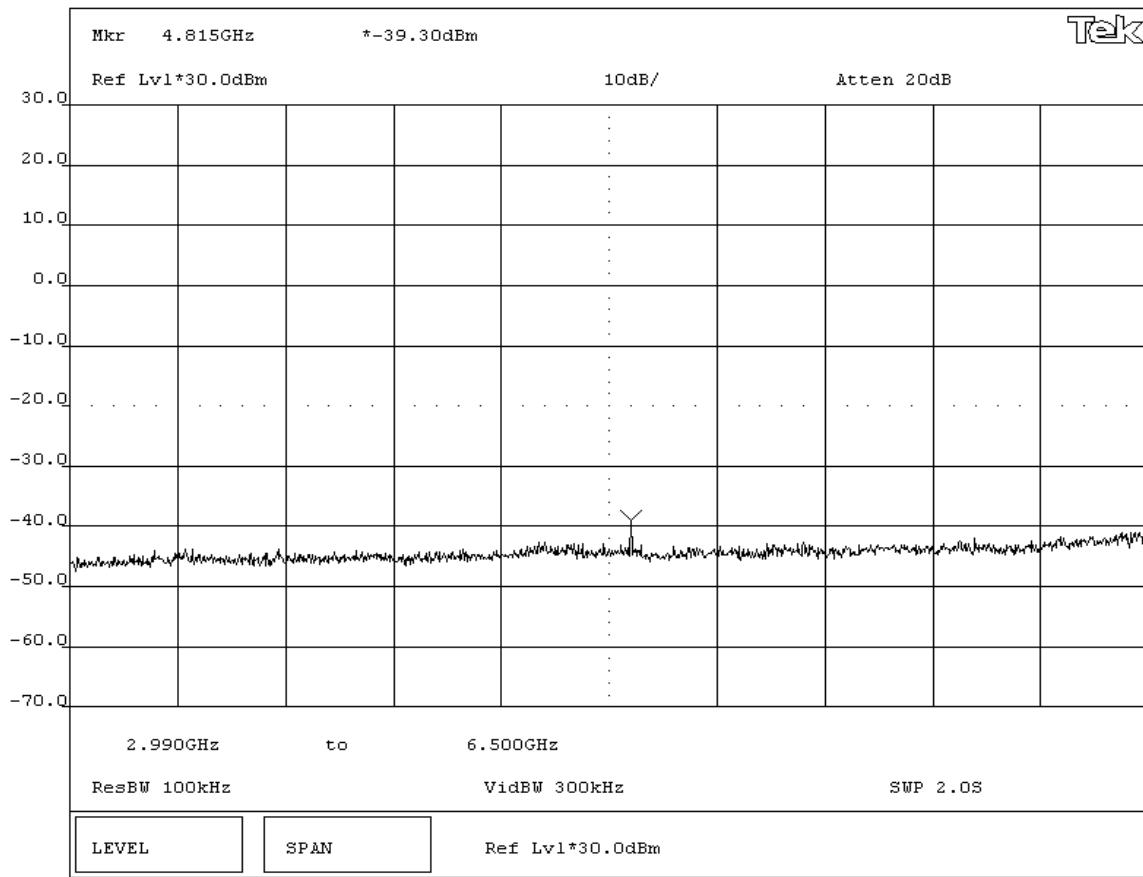
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX6 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

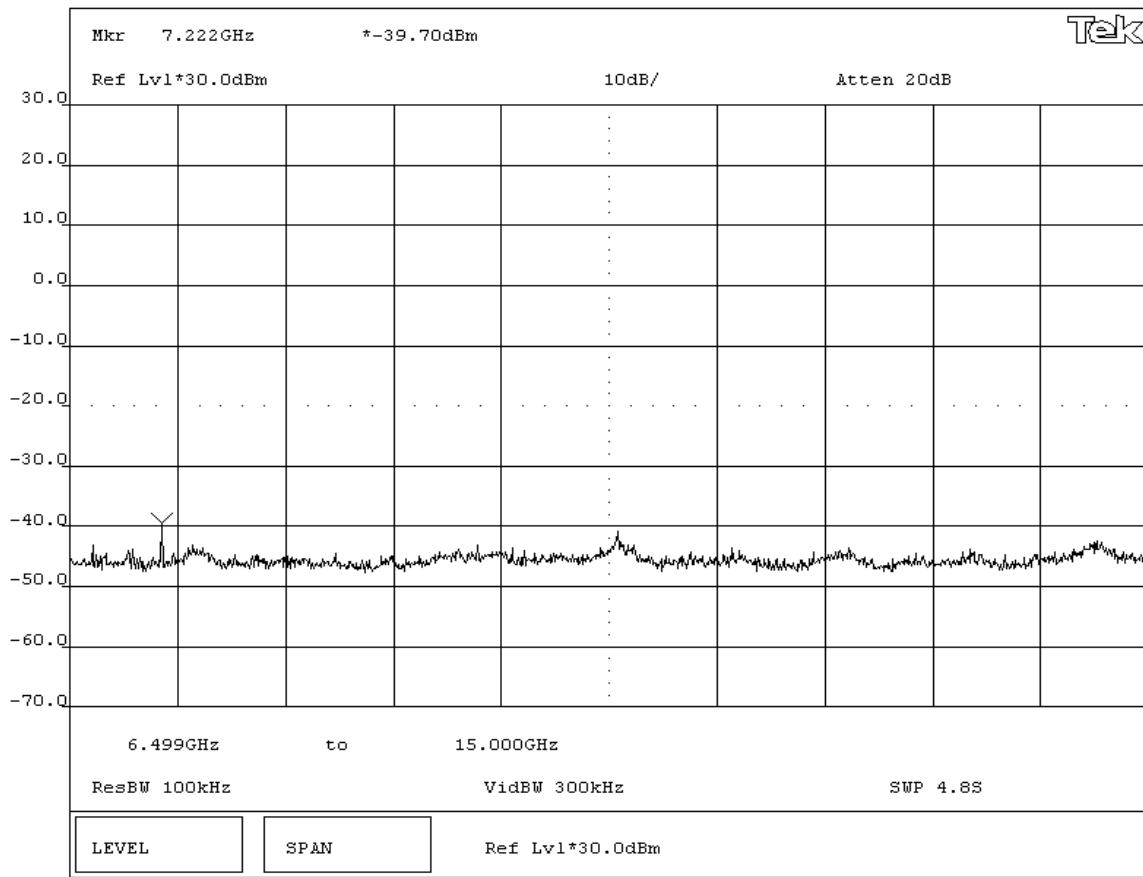
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX6 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

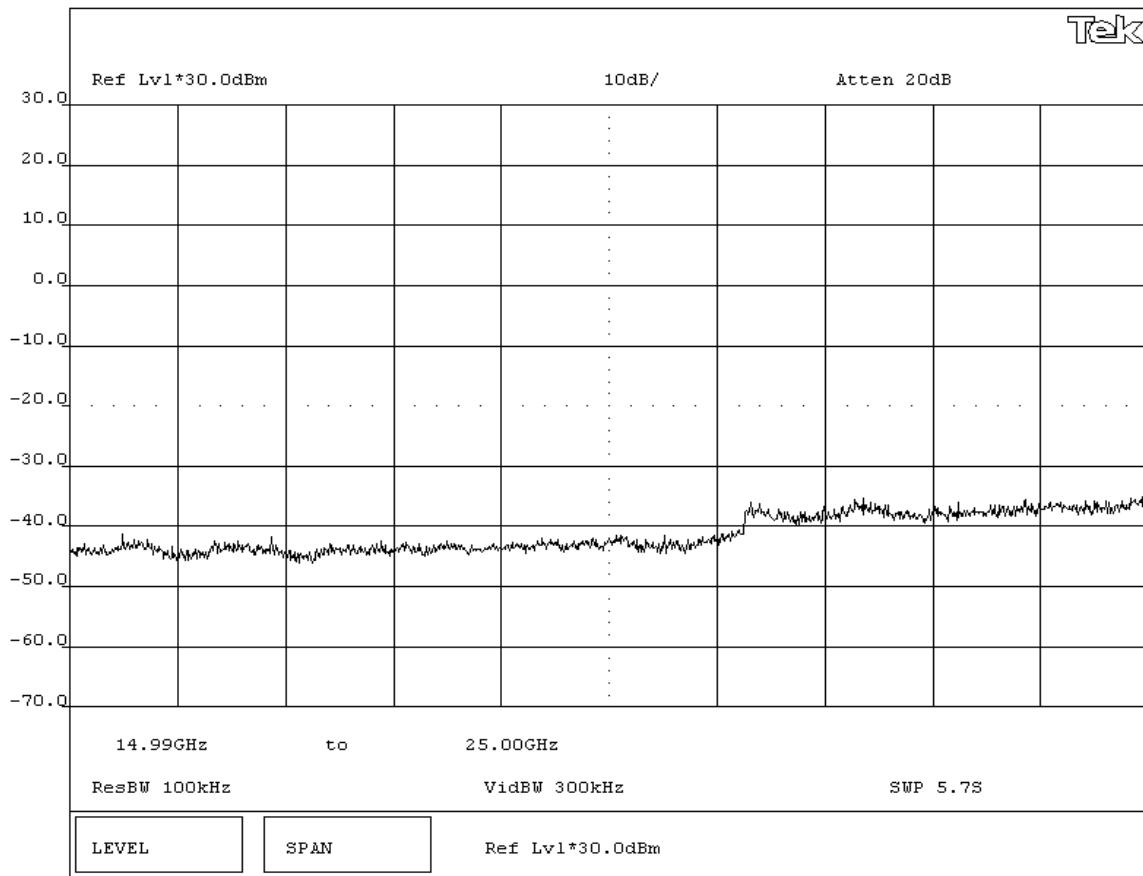
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX6 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 15GHz - 25GHz					



KNOB 2

KNOB 1

KEYPAD

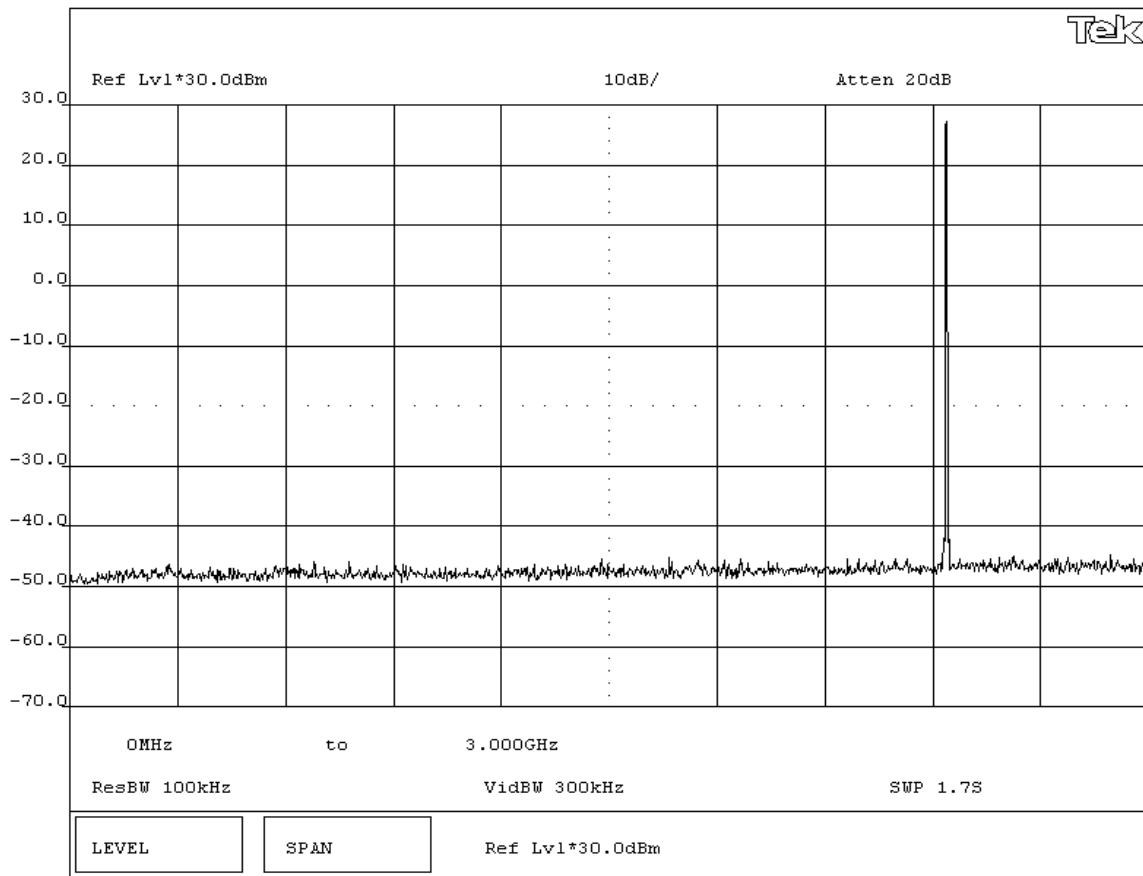
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX6 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 0MHz-3GHz					



KNOB 2

KNOB 1

KEYPAD

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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT: 2.4 GHz RFID Reader	Work Order: IDM10005
Serial Number: 32695	Date: 11/03/04
Customer: Idmicro, INC.	Temperature: 68
Attendees: Tom Kearns	Humidity: 40%
Customer Ref. No.: N/A	Power: 120VAC/60Hz

## TEST SPECIFICATIONS

Specification: 47 CFR 15.247(d)	Year: 2004	Method: DA 00-705, ANSI C63.4	Year: 2003
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## SAMPLE CALCULATIONS

## COMMENTS

Measurement made at TX6 Antenna Port

## EUT OPERATING MODES

Return link (no hop mode)

## DEVIATIONS FROM TEST STANDARD

None

## REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

## RESULTS

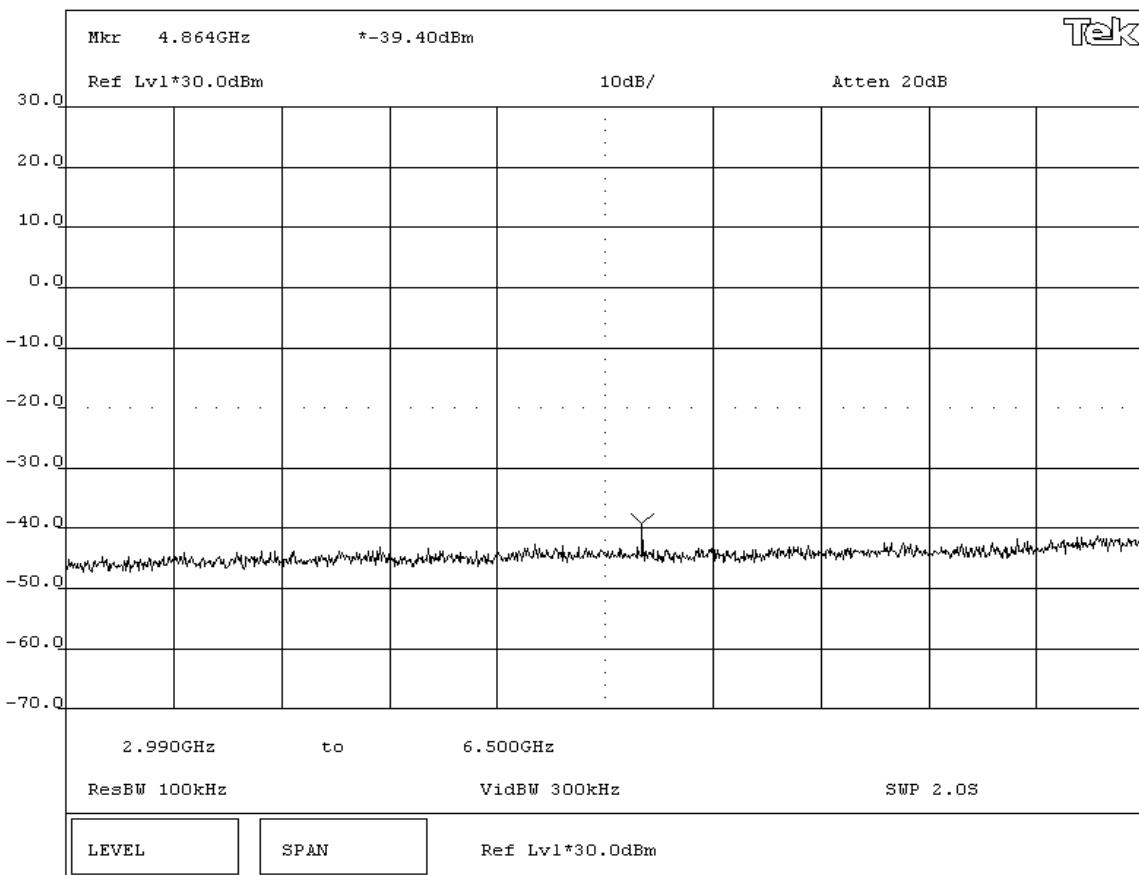
Pass

## SIGNATURE

Tested By: 

## DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 3GHz-6.5GHz



KNOB 2

KNOB 1

KEYPAD

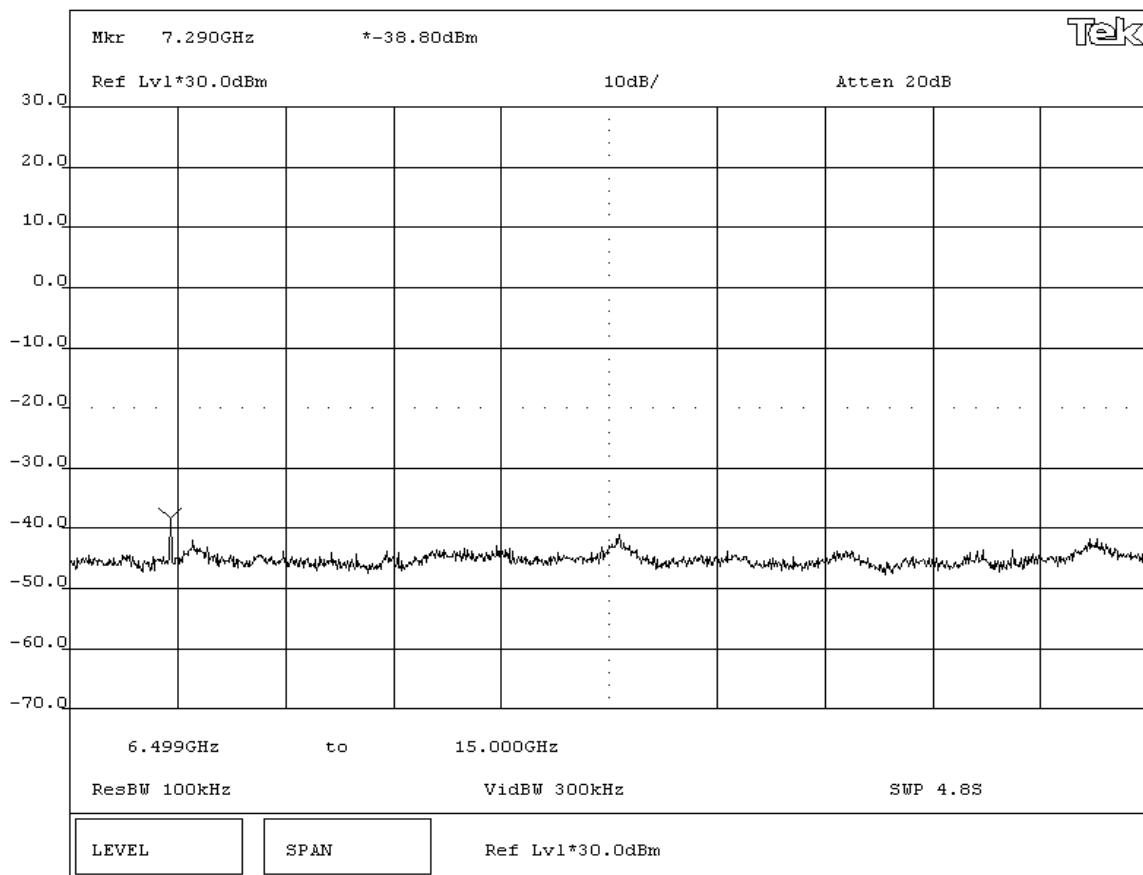
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX6 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
Tested By: <u>Tom Kearns</u>					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Mid Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

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**NORTHWEST  
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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT: 2.4 GHz RFID Reader	Work Order: IDMI0005
Serial Number: 32695	Date: 11/03/04
Customer: Idmico, INC.	Temperature: 68
Attendees: Tom Kearns	Humidity: 40%
Customer Ref. No.: N/A	Power: 120VAC/60Hz
	Job Site: EV06

## Customer Ref. No.: **TEST SPECIFICATIONS**

Specification: 47 CFR 15.247(d) Year: 2004 Method: DA 00-705, ANSI C63.4 Year: 2003

#### SAMPLE CALCULATIONS

## COMMENTS

### Measurement made at TX6 Antenna Port

## FUT OPERATING MODES

## EUT OPERATING MODES

## Return link (no hop mode)

DEVI

**None**

## REQUIREMENTS

## Maximum

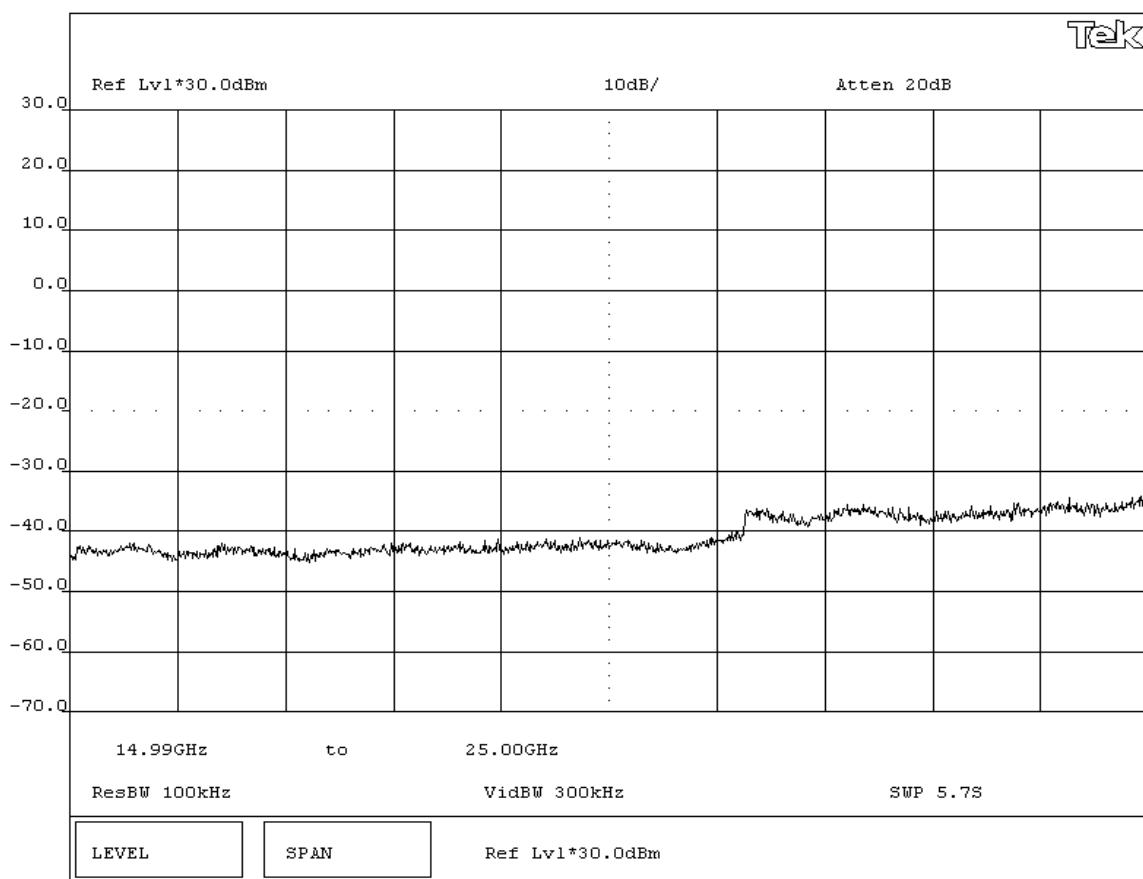
## RESULTS

Pass

Tested By:

### DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz

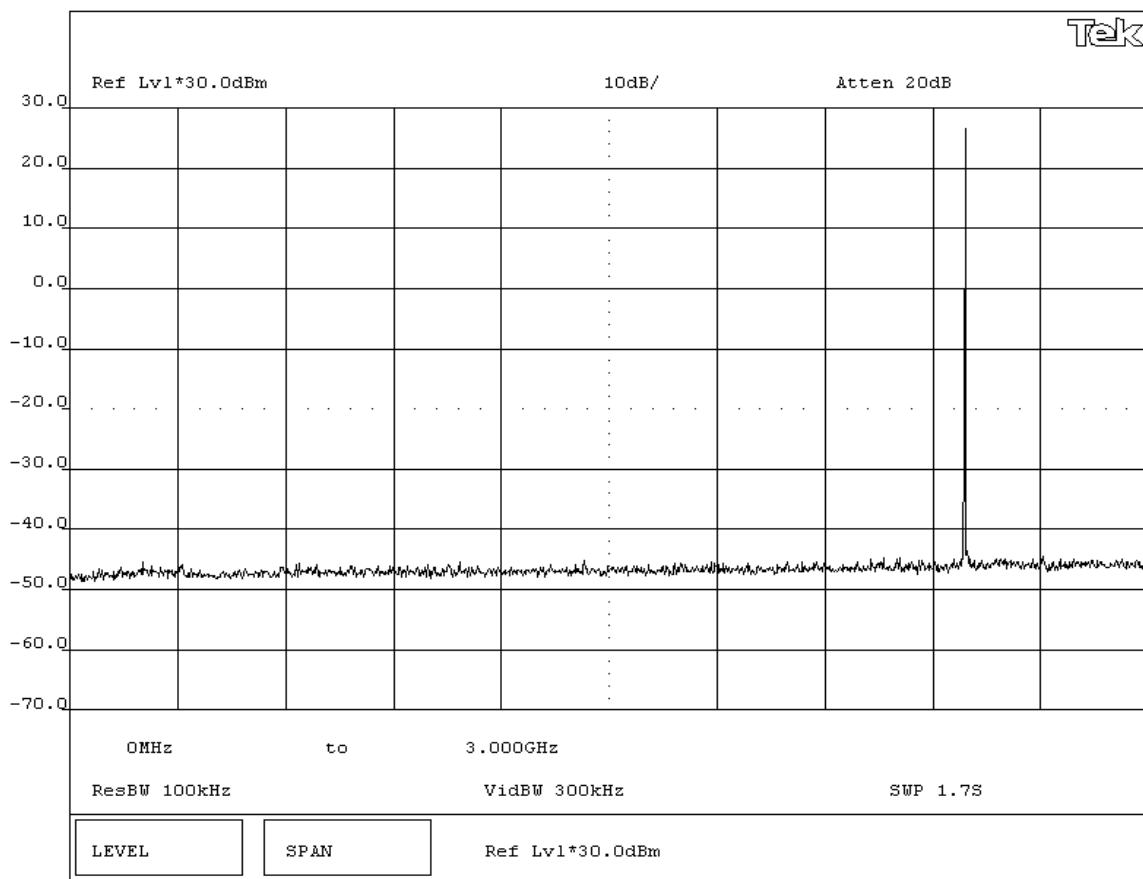


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## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX6 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz					



KNOB 2

KNOB 1

KEYPAD

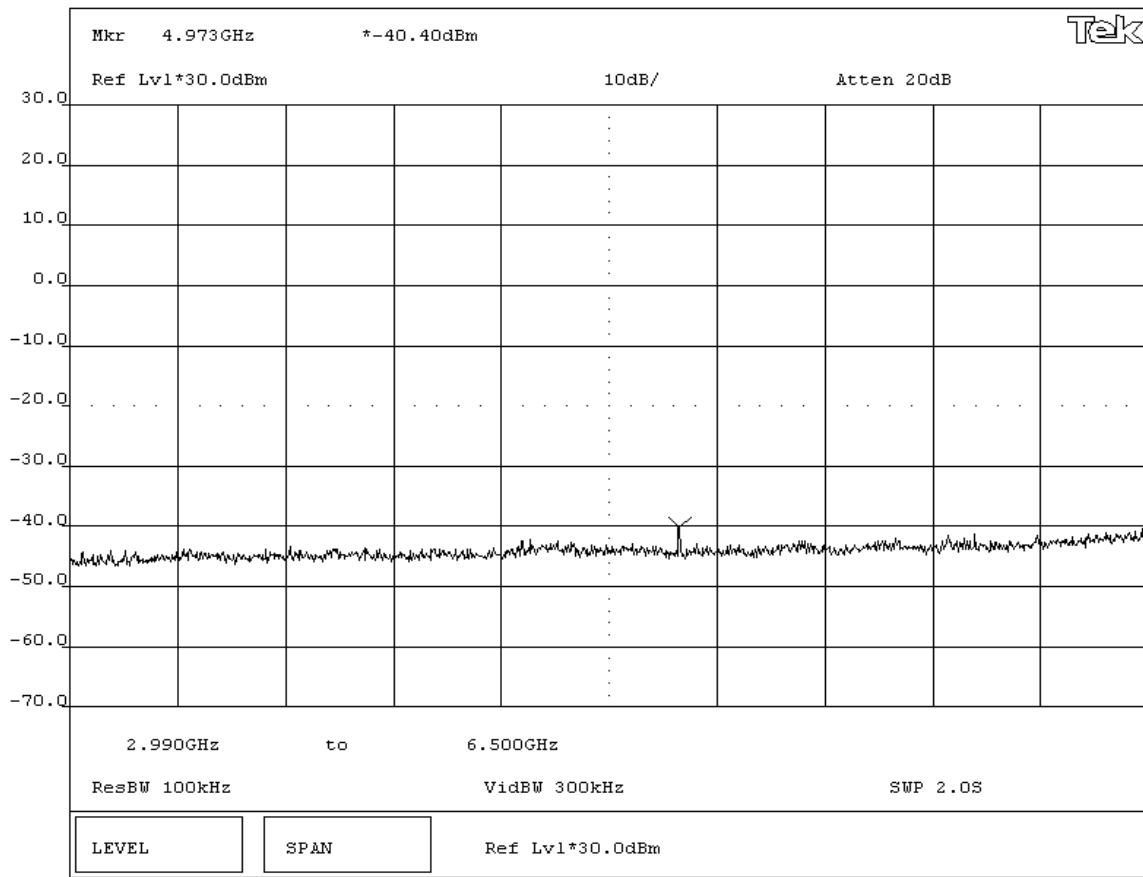
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX6 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

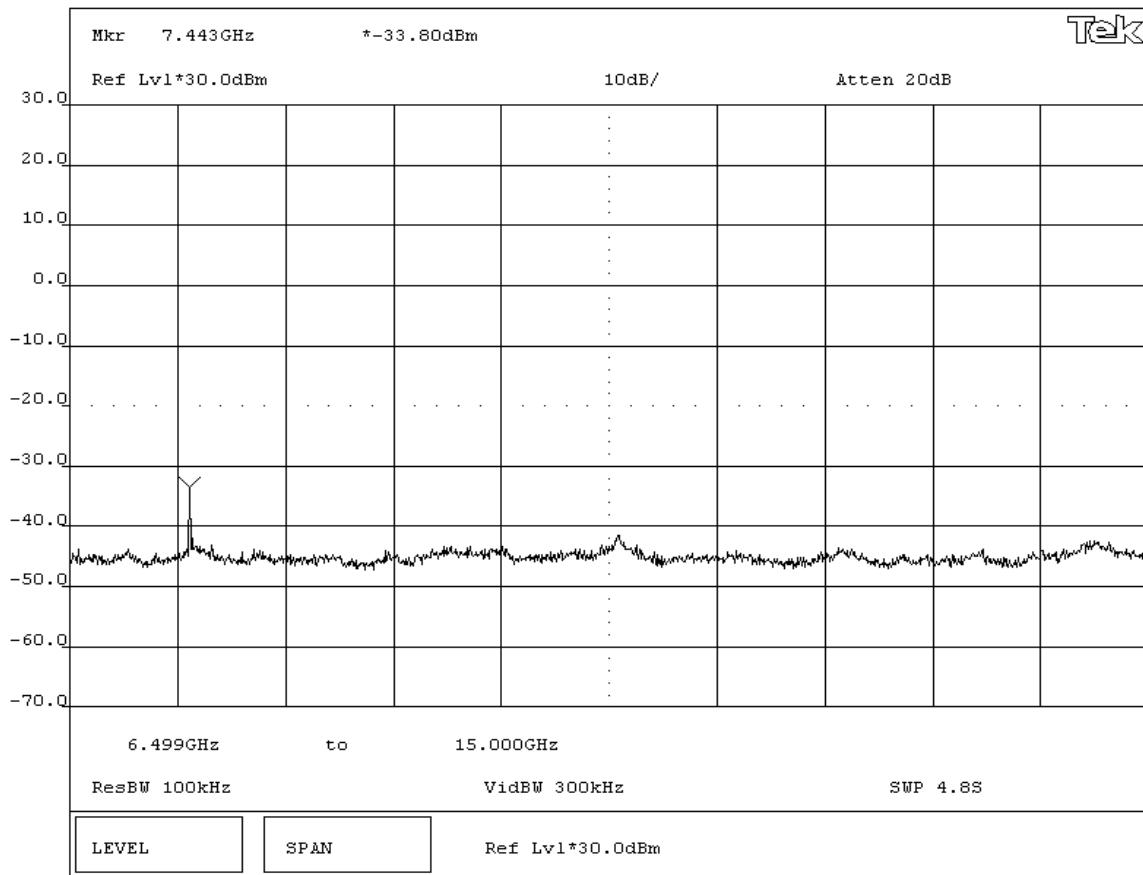
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX6 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

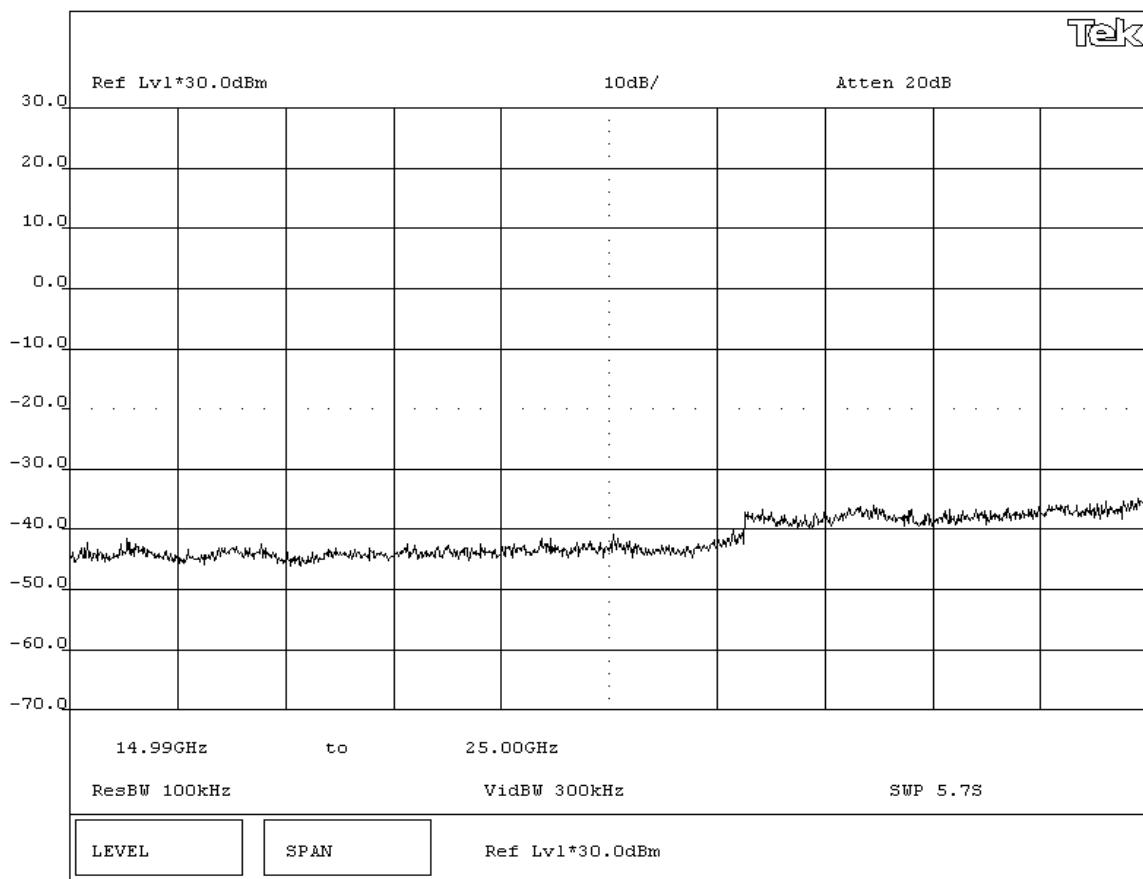
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/03/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX6 Antenna Port					
EUT OPERATING MODES					
Return link (no hop mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz					



KNOB 2

KNOB 1

KEYPAD

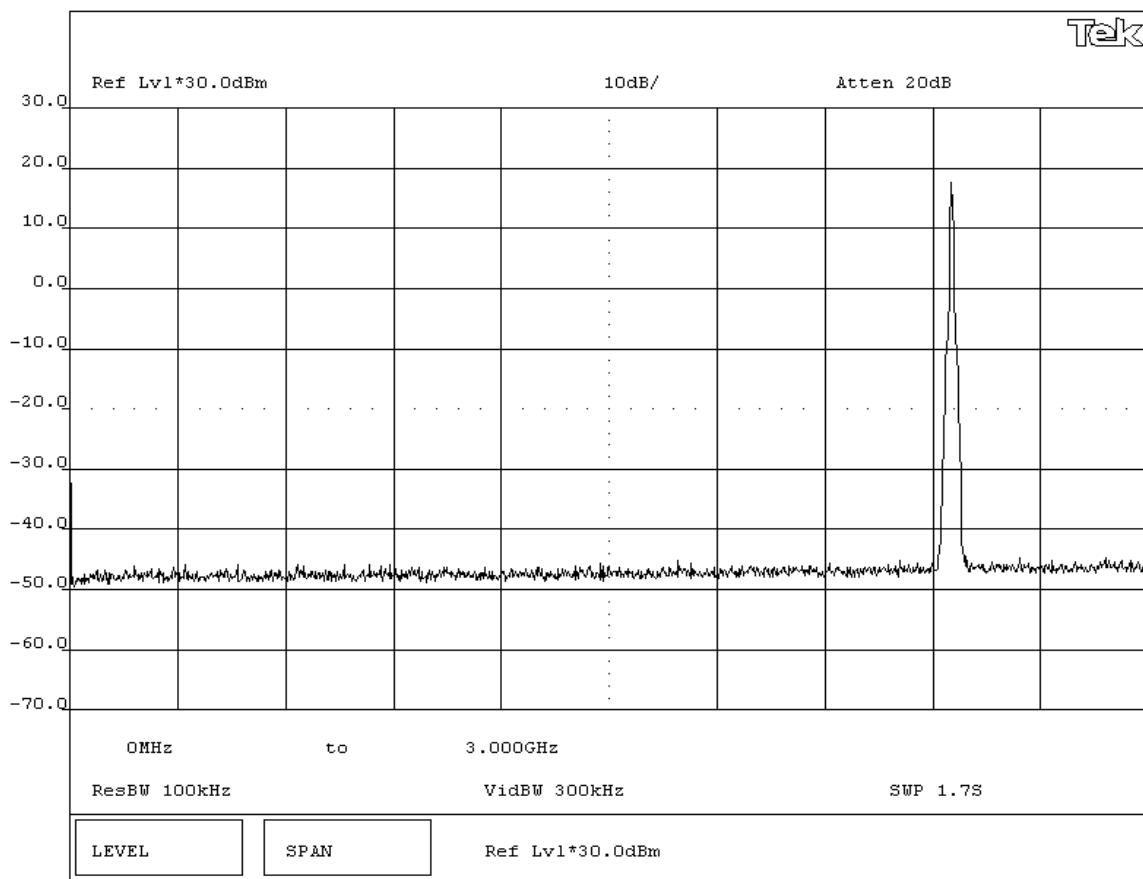
Tektronix 2784

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EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader	Work Order:	IDMI0005
Serial Number:	32695	Date:	11/04/04
Customer:	Idmicro, INC.	Temperature:	68
Attendees:	Tom Kearns	Humidity:	40%
Customer Ref. No.:	N/A	Power:	120VAC/60Hz
TEST SPECIFICATIONS		Job Site:	
Specification: 47 CFR 15.247(d)		Method: DA 00-705, ANSI C63.4	
Year: 2004		Year: 2003	
SAMPLE CALCULATIONS			
COMMENTS			
Measurement made at TX6 Antenna Port			
EUT OPERATING MODES			
Forward link (DSSS mode)			
DEVIATIONS FROM TEST STANDARD			
None			
REQUIREMENTS			
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental			
RESULTS			
Pass			
SIGNATURE			
 Tested By: _____			
DESCRIPTION OF TEST			
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz			



KNOB 2

KNOB 1

KEYPAD

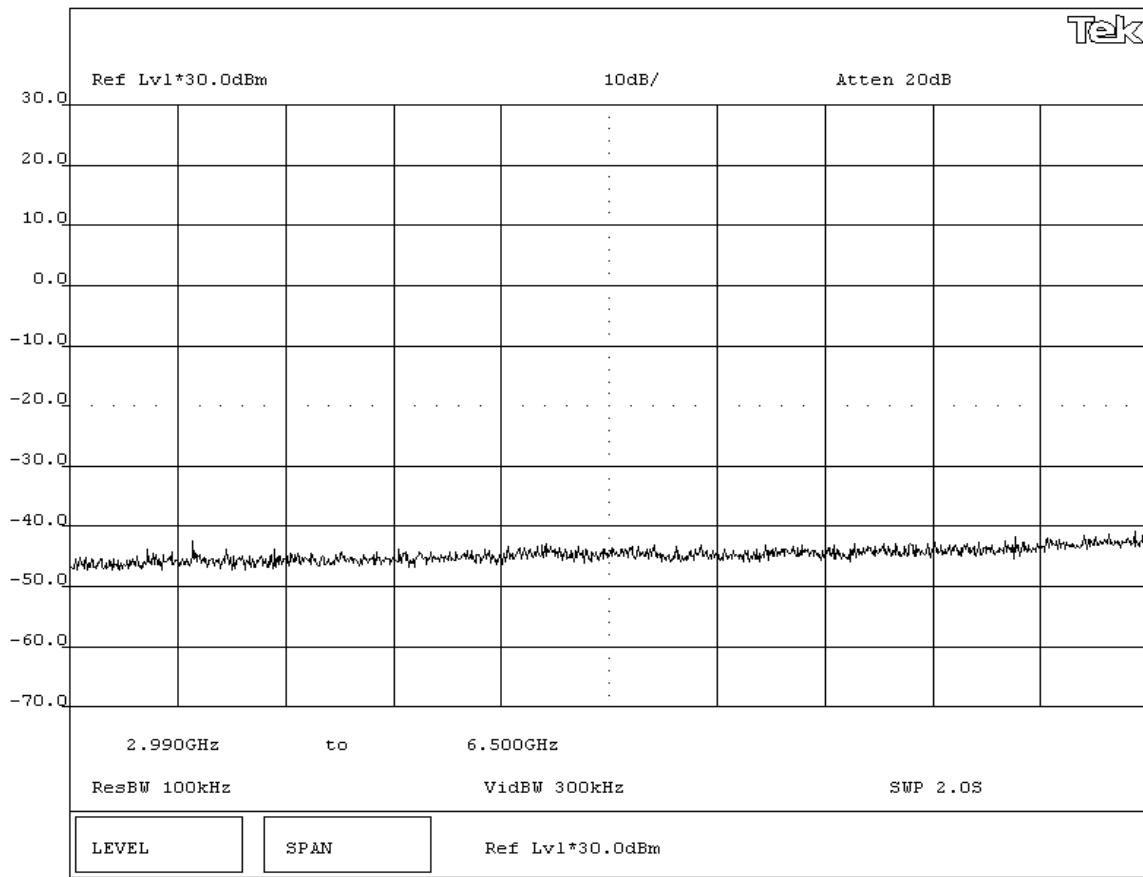
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/04/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX6 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz					



KNOB 2

KNOB 1

KEYPAD

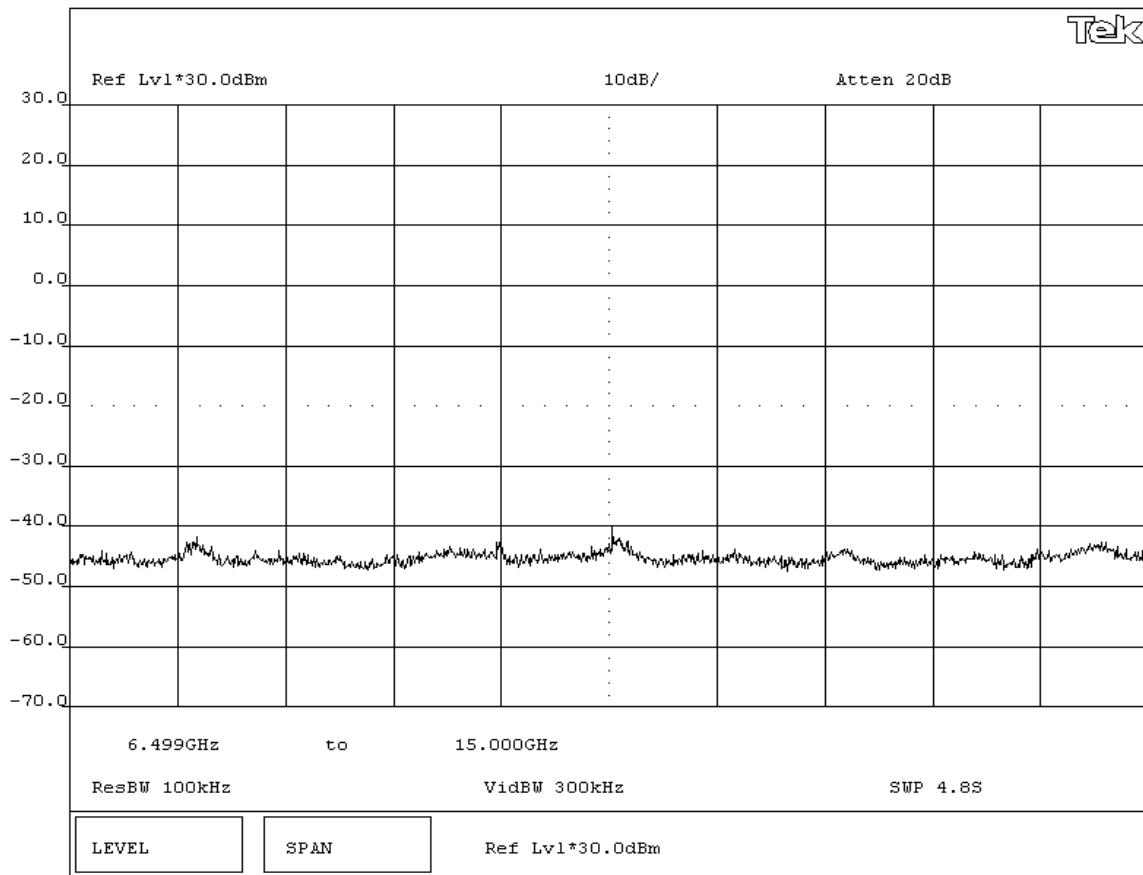
Tektronix 2784

NORTHWEST  
EMC

## EMISSIONS DATA SHEET

Rev BETA  
01/30/01

EUT:	2.4 GHz RFID Reader			Work Order:	IDMI0005
Serial Number:	32695			Date:	11/04/04
Customer:	Idmicro, INC.			Temperature:	68
Attendees:	Tom Kearns		Tested by:	Greg Kiemel	
Customer Ref. No.:	N/A		Power:	120VAC/60Hz	
TEST SPECIFICATIONS				Humidity: 40%	
Specification: 47 CFR 15.247(d)		Year: 2004	Method: DA 00-705, ANSI C63.4		Year: 2003
SAMPLE CALCULATIONS					
COMMENTS					
Measurement made at TX6 Antenna Port					
EUT OPERATING MODES					
Forward link (DSSS mode)					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz					



KNOB 2

KNOB 1

KEYPAD

Tektronix 2784



