

Justification

The individuals and/or the organization requesting the test provided the modes, configurations and settings available to evaluate. 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:

Mid
High
Low

Operating Modes Investigated:

No Hop

Data Rates Investigated:

Maximum

Output Power Setting(s) Investigated:

Maximum

Power Input Settings Investigated:

120 VAC, 60 Hz.

Frequency Range Investigated

Start Frequency	0 kHz	Stop Frequency	25 GHz
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Software\Firmware Applied During Test

Exercise software	Special Test Software	Version	Unknown
Description			
The system was tested using special software developed to test all functions of the device during the test. The special test software allowed the unit to be placed in a no hop mode at each of the low, mid, and high channels of the device.			

Equipment Modifications

No EMI suppression devices were added or modified. The EUT was tested as delivered.

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
Host System	SpaceLabs Medical	90310-1A	PAR327-1
Ethernet Board	SpaceLabs Medical	670-0829-00	N3112-95B-040
Power Supply	SpaceLabs Medical	90486	486-101522
EUT	Proxim	6330	A30549980020A6386465

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	No	1.8	No	Power Supply	AC Mains
DC Power	Yes	.96	Yes	Power Supply	Host System

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

Measurement Equipment

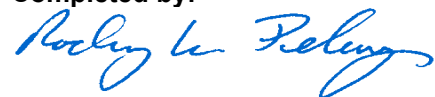
Description	Manufacturer	Model	Identifier	Last Cal	Interval
Spectrum Analyzer	Tektronix	2784	AAO	03/08/2001	12 mo

Test Description

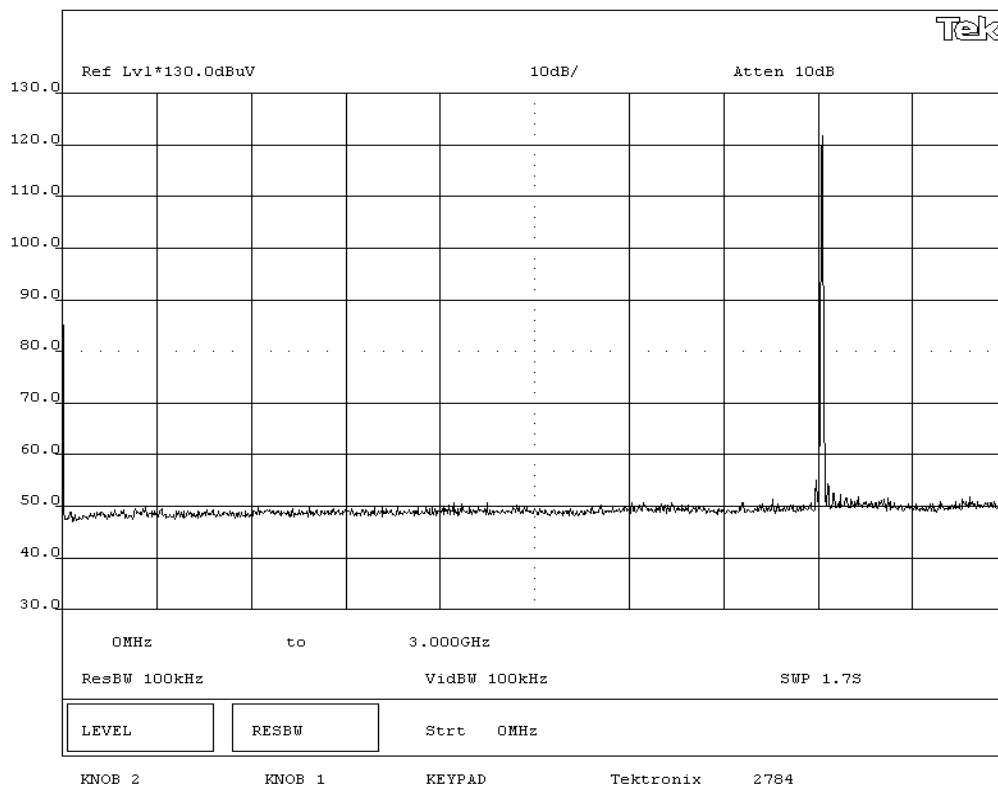
Requirement: Per 47 CFR 15.247(c), in any 100 kHz bandwidth outside the authorized band, the maximum level of radio frequency power must be at least 20dB down from the highest emission level within the authorized band. The measurement is made with the spectrum analyzer's resolution bandwidth set to 100 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 at its maximum data rate in a no hop mode. For each transmit frequency, the spectrum was scanned throughout the specified frequency.

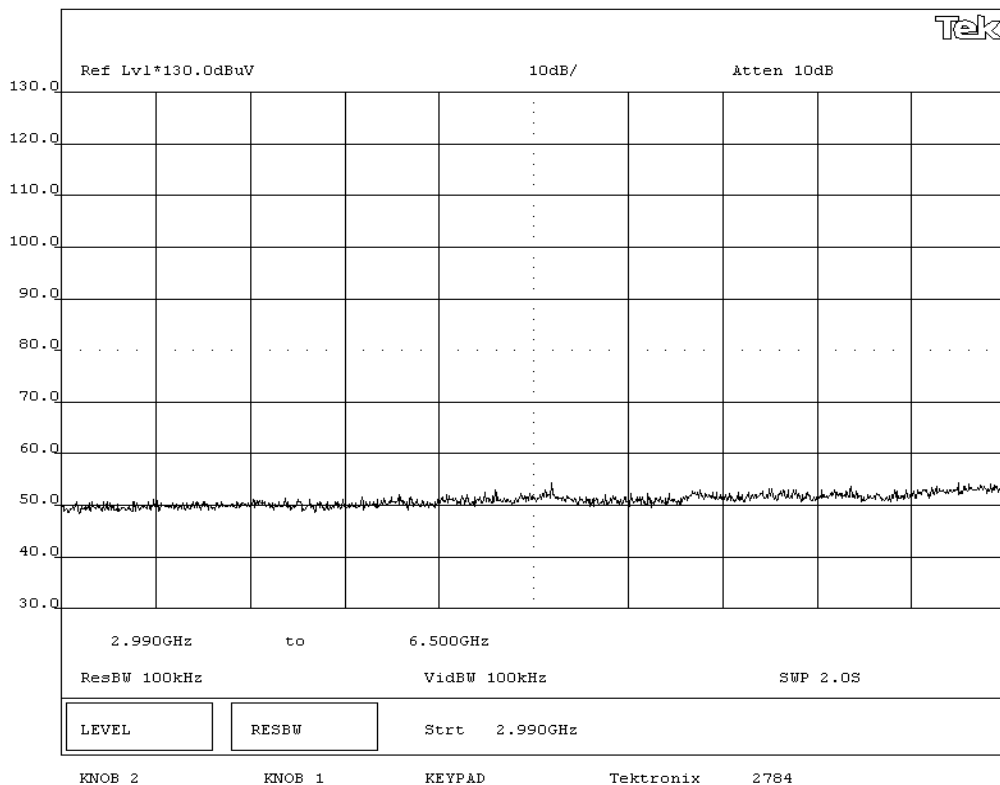
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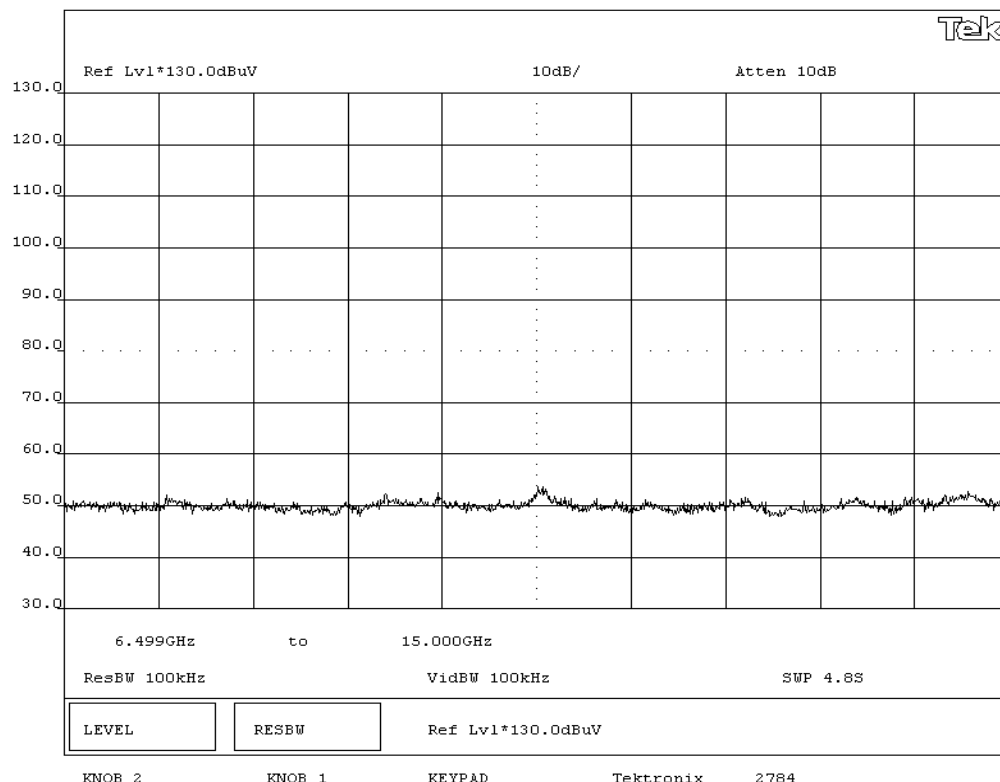
NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/30/01	
EUT: 6330		Work Order: SPAC0264			
Serial Number: A30549980020A6386465		Date: 07/11/01			
Customer: SpaceLabs Medical		Temperature: 23 degrees C			
Attendees: N/A		Tested by: Rod Poloquin		Humidity: 38% RH	
Customer Ref. No.: N/A		Power: 120VAC/60Hz		Job Site: EV06	
TEST SPECIFICATIONS					
Specification: 47 CFR 15.247(c)	Year: Most Current	Method: DA 00-705, ANSI C63.4	Year: 1992		
SAMPLE CALCULATIONS					
COMMENTS					
EUT OPERATING MODES					
Modulated by PRBS at maximum data rate					
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 0MHz-3GHz					

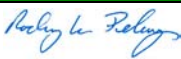


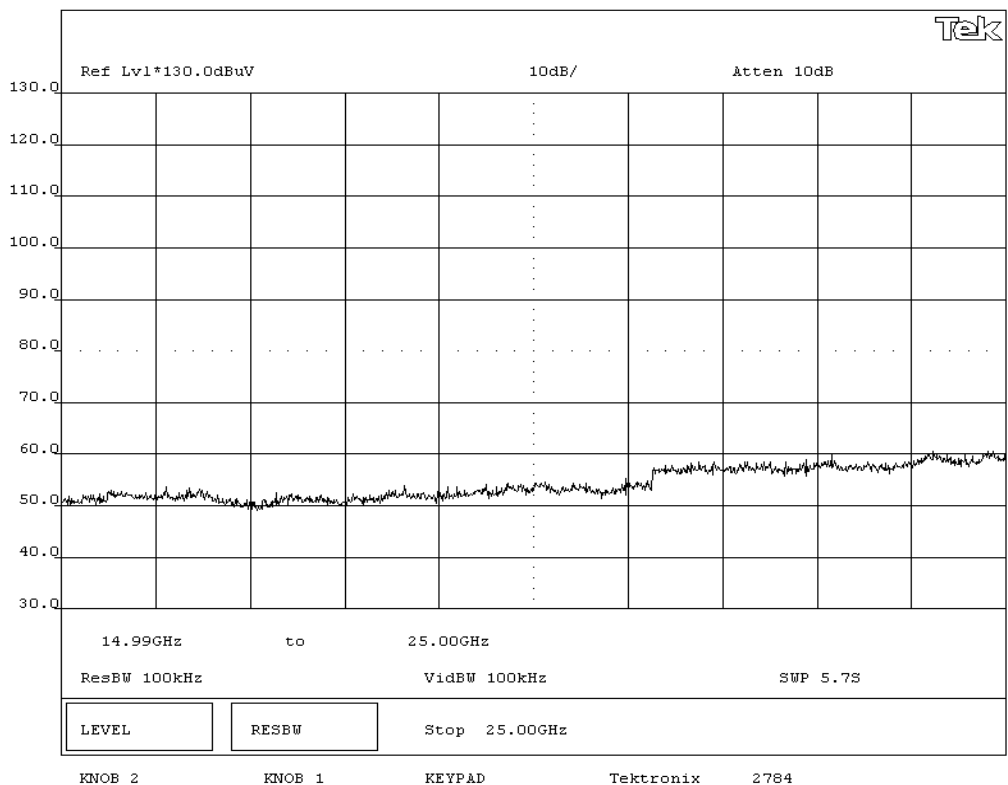
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Serial Number: A30549980020A6386465		Date: 07/11/01			
Customer: SpaceLabs Medical		Temperature: 23 degrees C			
Attendees: N/A		Tested by: Rod Poloquin		Humidity: 38% RH	
Customer Ref. No.: N/A		Power: 120VAC/60Hz		Job Site: EV06	
TEST SPECIFICATIONS					
Specification: 47 CFR 15.247(c)		Year: Most Current		Method: DA 00-705, ANSI C63.4	
				Year: 1992	
SAMPLE CALCULATIONS					
COMMENTS					
EUT OPERATING MODES					
Modulated by PRBS at maximum data rate					
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					



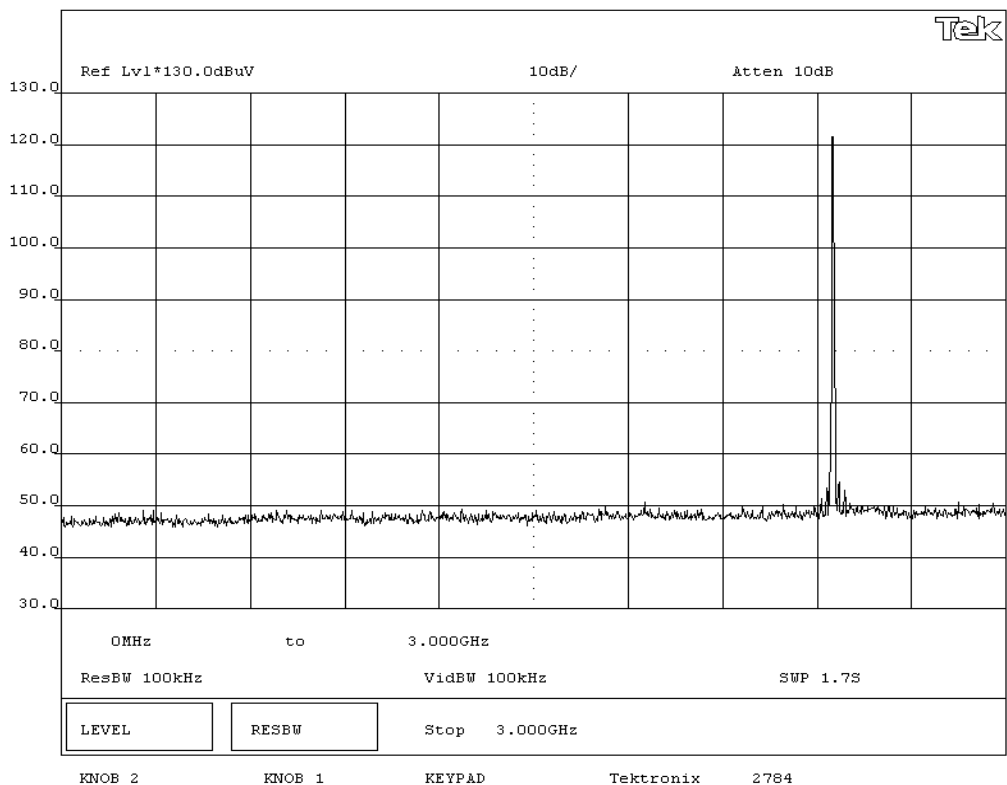
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Customer: SpaceLabs Medical		Temperature: 23 degrees C			
Attendees: N/A		Tested by: Rod Poloquin		Humidity: 38% RH	
Customer Ref. No.: N/A		Power: 120VAC/60Hz		Job Site: EV06	
TEST SPECIFICATIONS					
Specification: 47 CFR 15.247(c)		Year: Most Current		Method: DA 00-705, ANSI C63.4	
				Year: 1992	
SAMPLE CALCULATIONS					
COMMENTS					
EUT OPERATING MODES					
Modulated by PRBS at maximum data rate					
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					



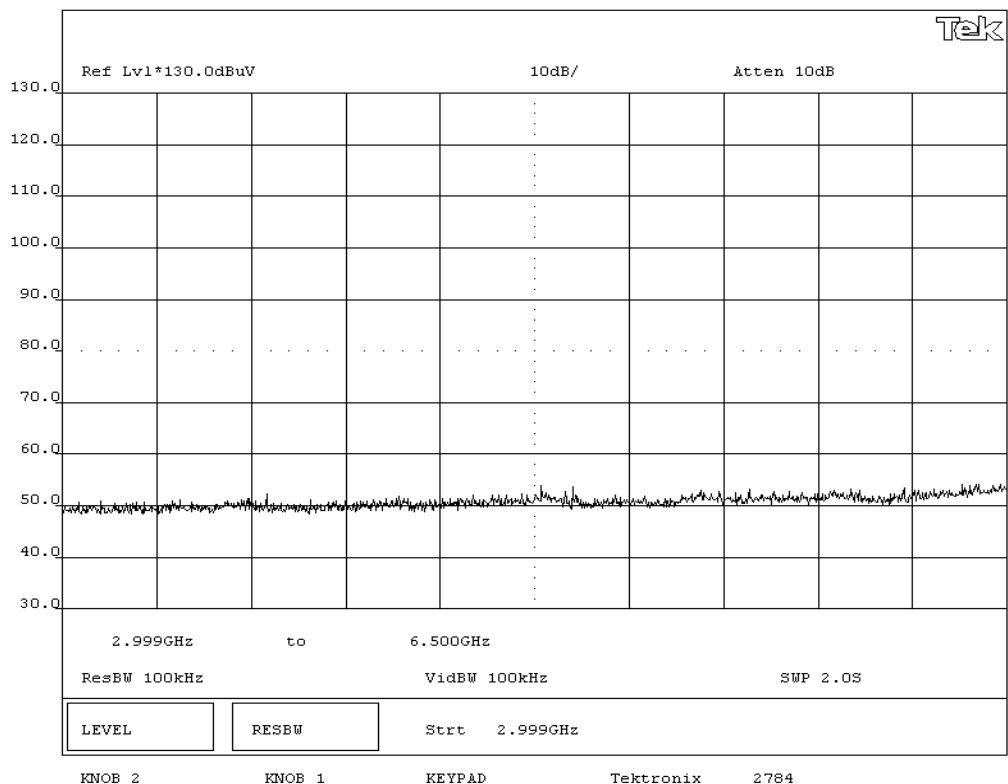
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Serial Number:	A30549980020A6386465	Date:	07/11/01		
Customer:	SpaceLabs Medical	Temperature:	23 degrees C		
Attendees:	N/A	Tested by:	Rod Poloquin	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	120VAC/60Hz	Job Site:	EV06
TEST SPECIFICATIONS					
Specification:	47 CFR 15.247(c)	Year:	Most Current	Method:	DA 00-705, ANSI C63.4
				Year:	1992
SAMPLE CALCULATIONS					
COMMENTS					
EUT OPERATING MODES					
Modulated by PRBS at maximum data rate					
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					



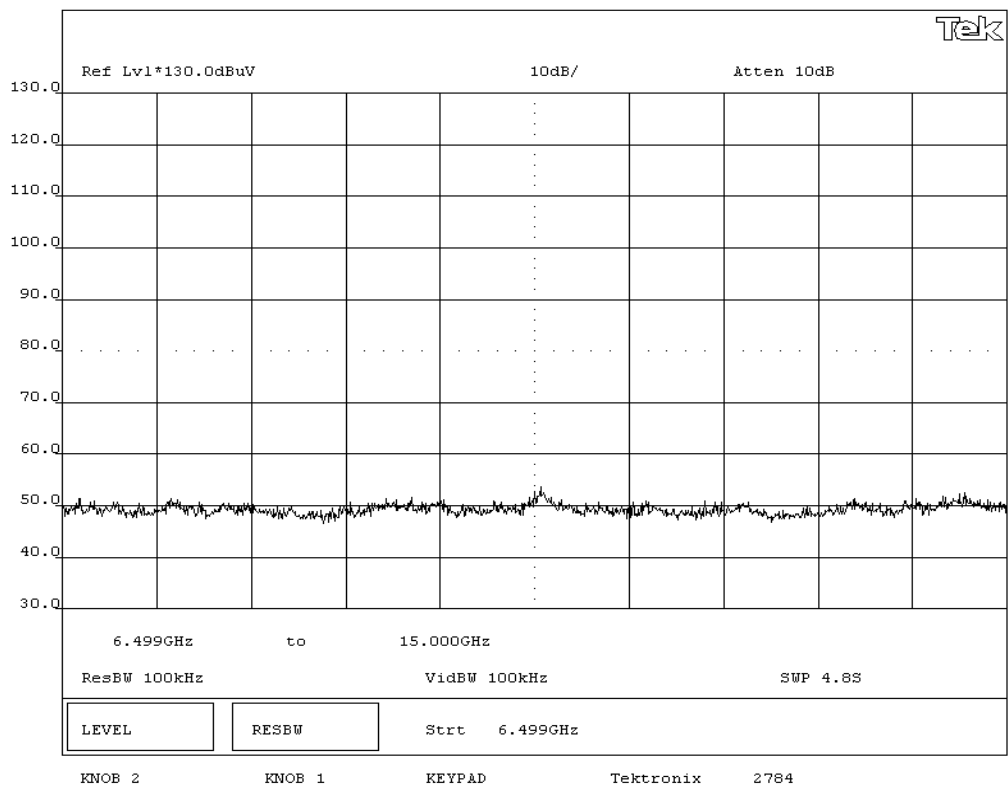
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Customer: SpaceLabs Medical		Temperature: 23 degrees C			
Attendees: N/A		Tested by: Rod Poloquin		Humidity: 38% RH	
Customer Ref. No.: N/A		Power: 120VAC/60Hz		Job Site: EV06	
TEST SPECIFICATIONS					
Specification: 47 CFR 15.247(c)	Year: Most Current	Method: DA 00-705, ANSI C63.4	Year: 1992		
SAMPLE CALCULATIONS					
COMMENTS					
EUT OPERATING MODES					
Modulated by PRBS at maximum data rate					
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					



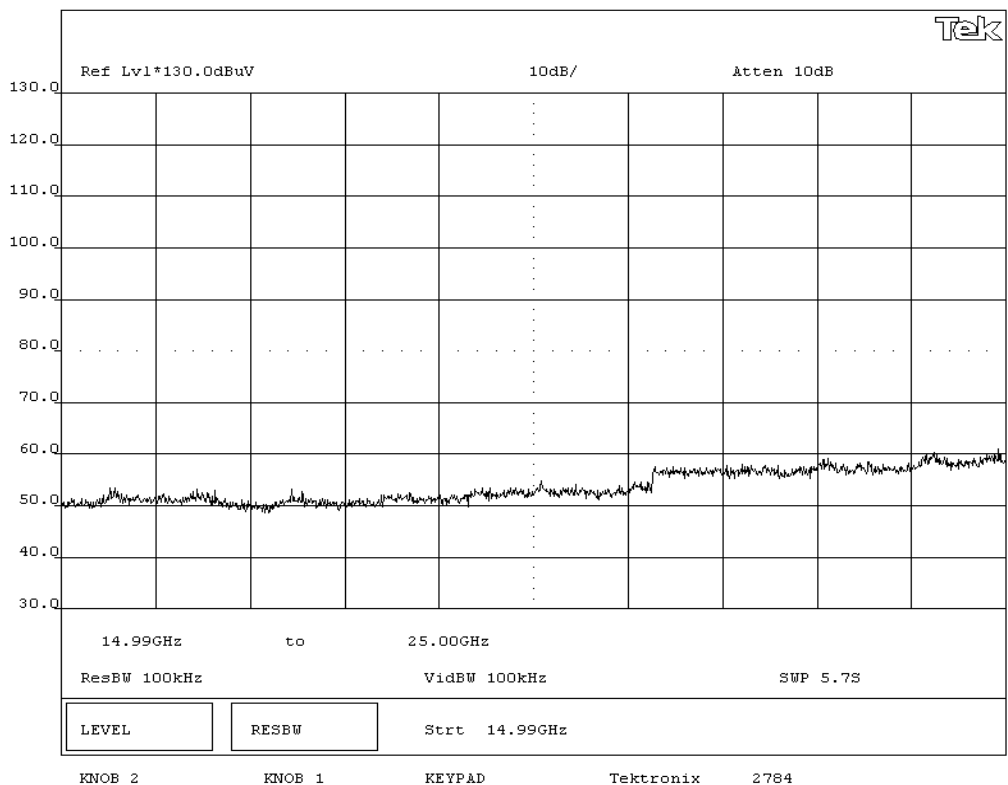
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EUT:	6330	Work Order:	SPAC0264		
Serial Number:	A30549980020A6386465	Date:	07/11/01		
Customer:	SpaceLabs Medical	Temperature:	23 degrees C		
Attendees:	N/A	Tested by:	Rod Poloquin	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	120VAC/60Hz	Job Site:	EV06
TEST SPECIFICATIONS					
Specification:	47 CFR 15.247(c)	Year:	Most Current	Method:	DA 00-705, ANSI C63.4
				Year:	1992
SAMPLE CALCULATIONS					
COMMENTS					
EUT OPERATING MODES					
Modulated by PRBS at maximum data rate					
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					



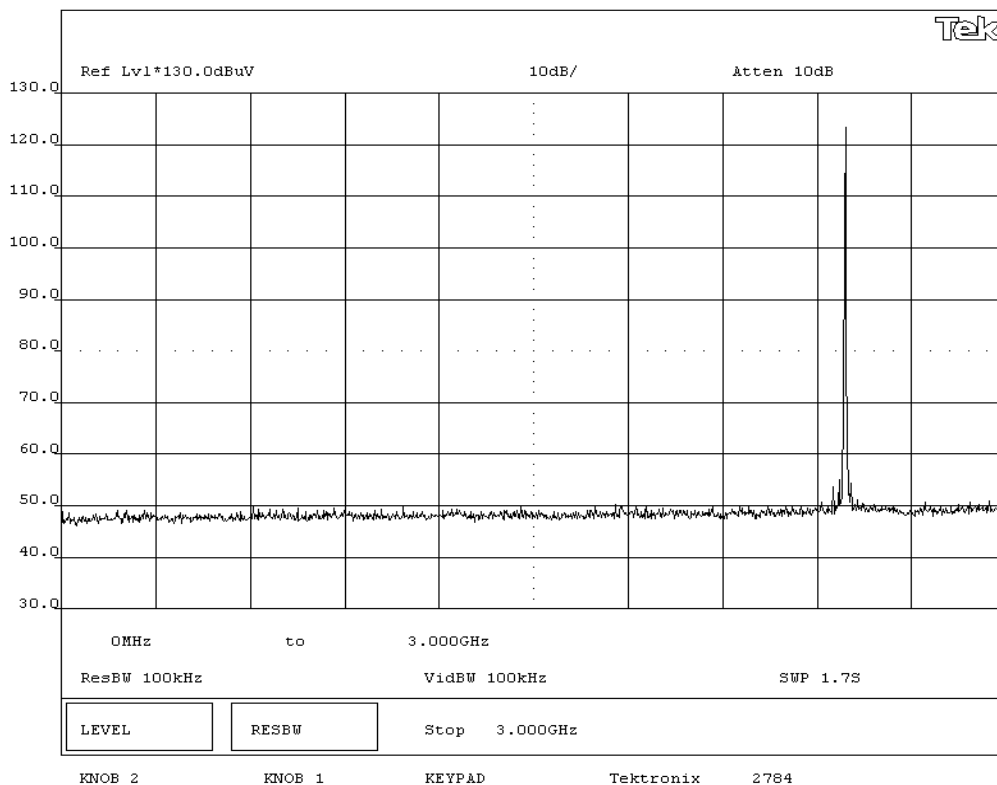
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Serial Number: A30549980020A6386465				Date: 07/11/01					
Customer: SpaceLabs Medical				Temperature: 23 degrees C					
Attendees: N/A				Tested by: Rod Poloquin				Humidity: 38% RH	
Customer Ref. No.: N/A				Power: 120VAC/60Hz				Job Site: EV06	
TEST SPECIFICATIONS									
Specification: 47 CFR 15.247(c)			Year: Most Current		Method: DA 00-705, ANSI C63.4			Year: 1992	
SAMPLE CALCULATIONS									
COMMENTS									
EUT OPERATING MODES									
Modulated by PRBS at maximum data rate									
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									



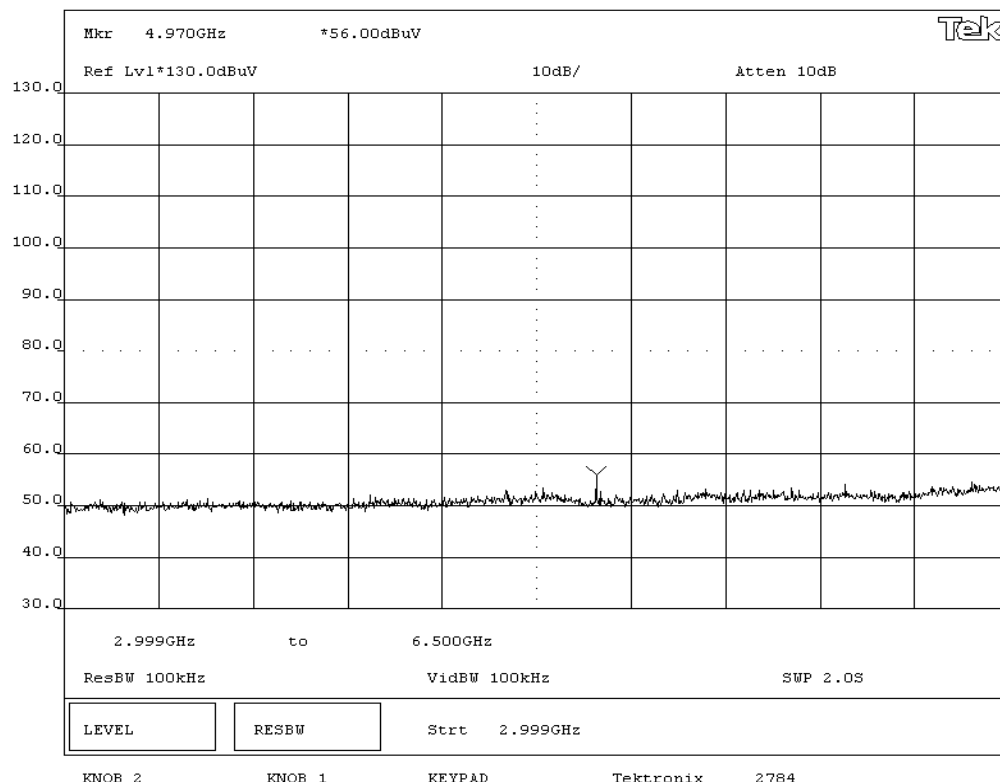
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Customer: SpaceLabs Medical		Temperature: 23 degrees C			
Attendees: N/A		Tested by: Rod Poloquin		Humidity: 38% RH	
Customer Ref. No.: N/A		Power: 120VAC/60Hz		Job Site: EV06	
TEST SPECIFICATIONS					
Specification: 47 CFR 15.247(c)		Year: Most Current		Method: DA 00-705, ANSI C63.4	
				Year: 1992	
SAMPLE CALCULATIONS					
COMMENTS					
EUT OPERATING MODES					
Modulated by PRBS at maximum data rate					
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					



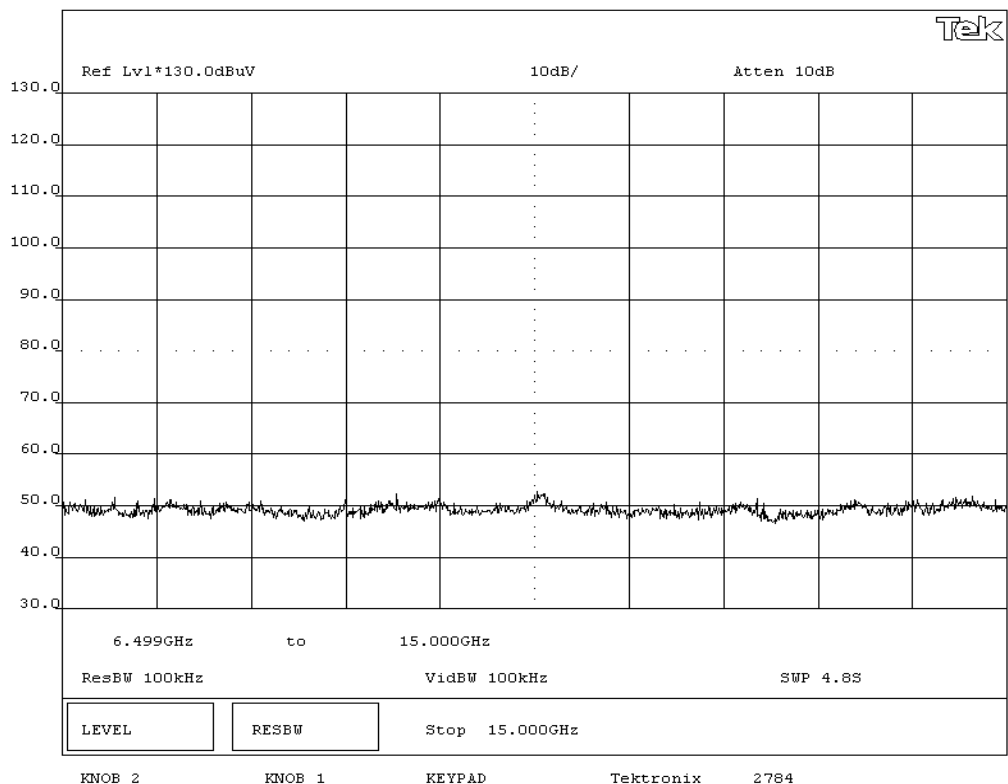
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EUT: 6330		Work Order: SPAC0264			
Serial Number: A30549980020A6386465		Date: 07/11/01			
Customer: SpaceLabs Medical		Temperature: 23 degrees C			
Attendees: N/A		Tested by: Rod Poloquin		Humidity: 38% RH	
Customer Ref. No.: N/A		Power: 120VAC/60Hz		Job Site: EV06	
TEST SPECIFICATIONS					
Specification: 47 CFR 15.247(c)	Year: Most Current	Method: DA 00-705, ANSI C63.4	Year: 1992		
SAMPLE CALCULATIONS					
COMMENTS					
EUT OPERATING MODES					
Modulated by PRBS at maximum data rate					
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					



NORTHWEST EMC				EMISSIONS DATA SHEET		Rev BETA 01/30/01	
EUT: 6330				Work Order: SPAC0264			
Serial Number: A30549980020A6386465				Date: 07/11/01			
Customer: SpaceLabs Medical				Temperature: 23 degrees C			
Attendees: N/A				Tested by: Rod Poloquin		Humidity: 38% RH	
Customer Ref. No.: N/A				Power: 120VAC/60Hz		Job Site: EV06	
TEST SPECIFICATIONS							
Specification: 47 CFR 15.247(c)		Year: Most Current		Method: DA 00-705, ANSI C63.4		Year: 1992	
SAMPLE CALCULATIONS							
COMMENTS							
EUT OPERATING MODES							
Modulated by PRBS at maximum data rate							
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							



NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/30/01	
EUT: 6330		Work Order: SPAC0264			
Serial Number: A30549980020A6386465		Date: 07/11/01			
Customer: SpaceLabs Medical		Temperature: 23 degrees C			
Attendees: N/A		Tested by: Rod Poloquin		Humidity: 38% RH	
Customer Ref. No.: N/A		Power: 120VAC/60Hz		Job Site: EV06	
TEST SPECIFICATIONS					
Specification: 47 CFR 15.247(c)		Year: Most Current		Method: DA 00-705, ANSI C63.4	
				Year: 1992	
SAMPLE CALCULATIONS					
COMMENTS					
EUT OPERATING MODES					
Modulated by PRBS at maximum data rate					
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					



NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/30/01	
EUT:	6330	Work Order:	SPAC0264		
Serial Number:	A30549980020A6386465	Date:	07/11/01		
Customer:	SpaceLabs Medical	Temperature:	23 degrees C		
Attendees:	N/A	Tested by:	Rod Poloquin	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	120VAC/60Hz	Job Site:	EV06
TEST SPECIFICATIONS					
Specification:	47 CFR 15.247(c)	Year:	Most Current	Method:	DA 00-705, ANSI C63.4
				Year:	1992
SAMPLE CALCULATIONS					
COMMENTS					
EUT OPERATING MODES					
Modulated by PRBS at maximum data rate					
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					

