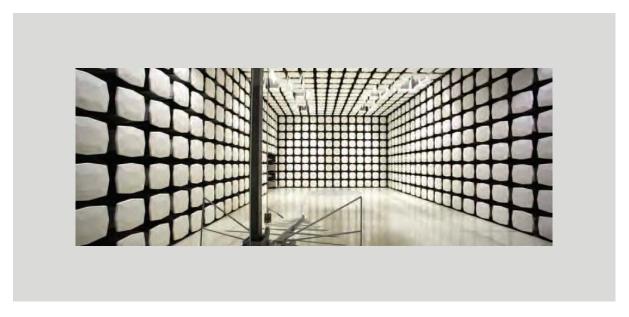


Boston Scientific Corporation

Jaguar, Model 6290 FCC 15.207:2015 FCC 95I:2015

Report # BSTN0527





NVLAP Lab Code: 200881-0

CERTIFICATE OF TEST



Last Date of Test: January 16, 2015 Boston Scientific Corporation Jaguar, Model 6290

Radio Equipment Testing

Standards

Specification	Method
FCC 95I:2015	ANSI/TIA/EIA-603-C-2004
FCC 15.207:2015	ANSI C63.10:2009

Results

Method Clause	Test Description	Applied	Results	Comments
FCC 95.627(a)	Frequency Monitoring	No	N/A	Boston Scientific will handle testing for this requirement and maintaining a report.
FCC 95.633(e)(3)	Emission Bandwidth	Yes	Pass	
FCC 95.635(d)(4-5)	Emission Mask	Yes	Pass	
FCC 2.2.1	Output Power	Yes	Pass	
FCC 2.2.2	Frequency Stability	Yes	Pass	
FCC 2.2.12	Spurious Radiated Emissions	Yes	Pass	
FCC 2.2.13	Spurious Conducted Emissions	Yes	Pass	
FCC 2.2.17	Radiated Power (EIRP)	Yes	Pass	
ANSI C63.10 - 6.2	Powerline Conducted Emissions	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Dean Ghizzone, President

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test.

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REVISION HISTORY



Revision Number	Description	Date	Page Number
00	None		

Report No. BSTN0527 3/38

ACCREDITATIONS AND AUTHORIZATIONS



United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC Guide 65 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

IC - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

European Union

European Commission – Validated by the European Commission as a Conformity Assessment Body (CAB) under the EMC directive and as a Notified Body under the R&TTE Directive.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

MSIP / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA - Recognized by IDA as a CAB for the acceptance of test data.

Israel

MOC – Recognized by MOC as a CAB for the acceptance of test data.

Hong Kong

OFTA – Recognized by OFTA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

SCOPE

For details on the Scopes of our Accreditations, please visit: http://www.nwemc.com/accreditations/

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MEASUREMENT UNCERTAINTY



Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is on each data sheet. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	<u>- MU</u>
Frequency Accuracy (Hz)	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	0.3 dB	-0.3 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	4.7 dB	-4.7 dB
AC Powerline Conducted Emissions (dB)	2.9 dB	-2.9 dB

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FACILITIES





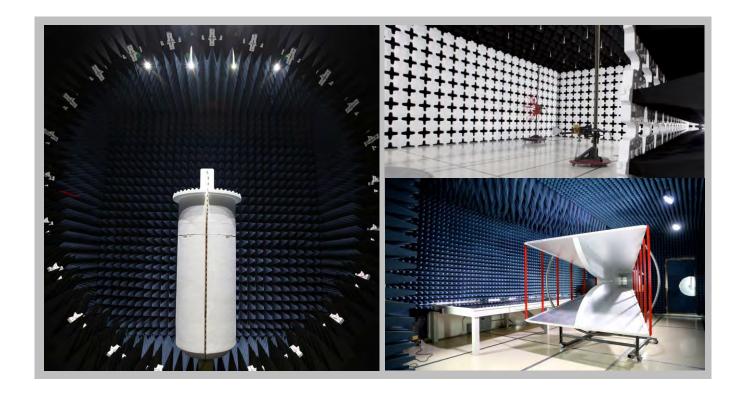


California	
Labs OC01-13	
41 Tesla	
Irvine, CA 92618	
(949) 861-8918	

Minnesota Labs MN01-08, MN10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136 New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796 Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066 **Texas**Labs TX01-09
3801 E Plano Pkwy
Plano, TX 75074
(469) 304-5255

WashingtonLabs NC01-05
19201 120th Ave NE
Bothell, WA 9801
(425)984-6600

(949) 861-8918	(612)-638-5136	(315) 685-0796	(503) 844-4066	(469) 304-5255	(425)984-6600	
	NVLAP					
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0	
	Industry Canada					
2834B-1, 2834B-3	2834E-1	N/A	2834D-1, 2834D-2	2834G-1	2834F-1	
	BSMI					
SL2-IN-E-1154R	SL2-IN-E-1152R	N/A	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R	
	VCCI					
A-0029	A-0109	N/A	A-0108	A-0201	A-0110	



Report No. BSTN0527 6/38

PRODUCT DESCRIPTION



Client and Equipment Under Test (EUT) Information

Company Name:	Boston Scientific Corporation
Address:	4100 Hamline Ave North
City, State, Zip:	St. Paul, MN 55112
Test Requested By:	Pete Musto
Model:	Jaguar, Model 6290
First Date of Test:	January 14, 2015
Last Date of Test:	January 16, 2015
Receipt Date of Samples:	January 14, 2015
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

In-home monitor that communicates with an implant through MedRadio band communication.

Testing Objective:

Seeking FCC authorization for the transmitter to FCC Part 95I.

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CONFIGURATIONS



Configuration BSTN0527-1

EUT					
Description Manufacturer Model/Part Number Serial Number					
Communicator	Boston Scientific Corporation	6290	601		
DC Brick	GlobTek	GTM41061-1512-7.0	None		

Peripherals in test setup boundary				
Description Manufacturer Model/Part Number Serial Number				
USB Cellular Adapter	Boston Scientific Corporation	6295	5	
USB Bluetooth Adapter	Delta Mobile Systems	DM210	2E6B	

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Power	No	1.80m	Yes	DC Brick	Communicator
RJ11 (x2)	No	1.80m	No	Communicator	Unterminated
USB	Yes	0.20m	Yes	Communicator	USB Cellular Modem

Configuration BSTN0527-2

EUT					
Description	Manufacturer	Model/Part Number	Serial Number		
Communicator	Boston Scientific Corporation	6290	601		
DC Brick	GlobTek	GTM41061-1512-7.0	None		

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
USB Cellular Adapter	Boston Scientific Corporation	6295	5
USB Bluetooth Adapter	Delta Mobile Systems	DM210	2E6B

Cables									
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2				
DC Power	No	1.80m	Yes	DC Brick	Communicator				
RJ11 (x2)	No	1.80m	No	Communicator	Unterminated				
USB	Yes	0.20m	Yes	Communicator	USB Cellular Modem				
AC Power	No	1.80m	No	DC Brick	AC Mains				

Report No. BSTN0527

CONFIGURATIONS



Configuration BSTN0527-3

EUT						
Description	Manufacturer	Model/Part Number	Serial Number			
Communicator	Boston Scientific Corporation	6290	601			
DC Brick	GlobTek	GTM41061-1512-7.0	None			

Peripherals in test setup boundary								
Description	Manufacturer	Model/Part Number	Serial Number					
USB Cellular Adapter	Boston Scientific Corporation	6295	5					
USB Bluetooth Adapter	Delta Mobile Systems	DM210	2E6B					
Laptop	Gateway	ZE7	LUWZMOD00120219DD97614					
AC Adapter	Leader Electronics	IU40-11190-011S	AP04007002150069F8PP03					

Cables									
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2				
DC Power	No	1.80m	Yes	DC Brick	Communicator				
RJ11 (x2)	No	1.80m	No	Communicator	Unterminated				
USB	Yes	0.20m	Yes	Communicator	USB Cellular Modem				
USB to Ribbon	No	1.90m	No	Laptop	Communicator				
DC Power	No	2.50m	Yes	Laptop	AC Adapter				

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MODIFICATIONS



Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	1/14/20155	Emission Bandwidth	Tested as delivered to	No EMI suppression devices were added or	EUT remained at Northwest EMC
		Danuwidin	Test Station.	modified during this test.	following the test.
		Radiated	Tested as	No EMI suppression	EUT remained at
2	1/14/2015	Power	delivered to	devices were added or	Northwest EMC
		(EIRP)	Test Station.	modified during this test.	following the test.
		Emission	Tested as	No EMI suppression	EUT remained at
3	1/15/2015	Mask	delivered to	devices were added or	Northwest EMC
		Mask	Test Station.	modified during this test.	following the test.
		Spurious	Tested as	No EMI suppression	EUT remained at
4	1/15/2015	Conducted	delivered to	devices were added or	Northwest EMC
		Emissions	Test Station.	modified during this test.	following the test.
		Output	Tested as	No EMI suppression	EUT remained at
5	1/15/2015	015 Output Power	delivered to	devices were added or	Northwest EMC
		1 OWEI	Test Station.	modified during this test.	following the test.
		Spurious	Tested as	No EMI suppression	EUT remained at
6	1/15/2015	Radiated	delivered to	devices were added or	Northwest EMC
		Emissions	Test Station.	modified during this test.	following the test.
		Powerline	Tested as	No EMI suppression	EUT remained at
7	1/15/2015	Conducted	delivered to	devices were added or	Northwest EMC
		Emissions	Test Station.	modified during this test.	following the test.
8	1/16/2015	Frequency Stability	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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EMISSIONS BANDWIDTH



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
MN08 Direct Connect Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	10/2/2014	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC Block	Fairview Microwave	SD3379	AMI	10/2/2014	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	8/12/2014	36
Spectrum Analyzer	Agilent	E4443A	AAS	3/27/2014	12

TEST DESCRIPTION

Per 47 CFR 95.633(e)(3), the emission bandwidth was determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 20 dB down relative to the maximum level of the modulated carrier. A spectrum analyzer using a peak detector with no video filtering was used with a resolution bandwidth equal to approximately 1.0 percent of the emission bandwidth of the EUT.

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EMISSIONS BANDWIDTH

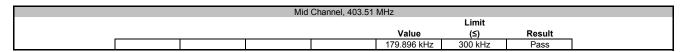


EUT:	Jaguar, Model 6290			Work Order:	BSTN0527	
Serial Number:	601	Date:	01/15/15			
Customer:	Boston Scientific Corporation			Temperature:	23.3°C	
Attendees:	None			Humidity:	18%	
Project:	None			Barometric Pres.:	1017.2	
Tested by:	Trevor Buls	Power:	110VAC/60Hz	Job Site:	MN08	
TEST SPECIFICATI	ONS		Test Method			
FCC 95I:2015			ANSI/TIA/EIA-603-C-2004			
COMMENTS						
Transmitting a mod	dulated carrier at 76.8 kbps.					
DEVIATIONS FROM	I TEST STANDARD					
None						
Configuration #	3 Signature	revor	Buls			
	·			-	Limit	·
				Value	(≤)	Result
Mid Channel, 403.51	MHz			179.896 kHz	300 kHz	Pass

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EMISSIONS BANDWIDTH







Report No. BSTN0527 13/38

EMISSIONS MASK



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
MN08 Direct Connect Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	10/2/2014	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC Block	Fairview Microwave	SD3379	AMI	10/2/2014	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	8/12/2014	36
Spectrum Analyzer	Agilent	E4443A	AAS	3/27/2014	12

TEST DESCRIPTION

Per 47 CFR 95.635(d)(4) the emission mask was measured. Emissions more than 150 kHz away from the center frequency must be attenuated below the transmitter output power by at least 20 dB. This was evaluated by the Occupied Bandwidth measurement according to 47 CFR 95.633(e)(1). In addition, emissions 250 kHz or less above and below the MedRadio band (402-405 MHz) must be attenuated below the maximum permitted output power by at least 20 dB.

A spectrum analyzer was used to measure the emission mask. A spectrum analyzer using a peak detector with no video filtering was used with a resolution bandwidth equal to approximately 1.0 percent of the emission bandwidth of the EUT. However, various plots were made using different frequency spans and resolution bandwidths in an attempt to not only satisfy the measurement criteria, but to also show that all emissions outside of the occupied band are greatly attenuated.

Report No. BSTN0527 14/38

EMISSIONS MASK

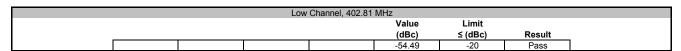


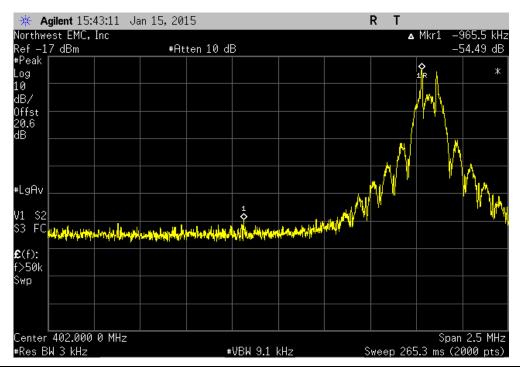
EUT: Jaguar, Model 6290	Work Order:	BSTN0527	
Serial Number: 601	Date:	01/15/15	
Customer: Boston Scientific Corporation	Temperature:	23.3°C	
Attendees: None	Humidity:	18%	
Project: None	Barometric Pres.:	1017.2	
Tested by: Trevor Buls Power: 110VAC/60Hz	Job Site:	MN08	
TEST SPECIFICATIONS Test Method			
FCC 95I:2015 ANSI/TIA/EIA-603-C-2004			
	<u> </u>		
COMMENTS			
Highest channel is also the closest to the middle of the band. Transmitting a modulated carrier at 76.8 kbps.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration# 3 Signature Trevor Buls			
	Value (dBc)	Limit ≤ (dBc)	Result
Low Channel, 402.81 MHz	-54.49	-20	Pass
High Channel, 403.51 MHz	-57.07	-20	Pass

Report No. BSTN0527 15/38

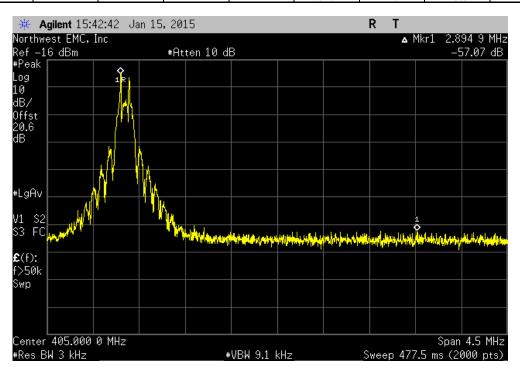
EMISSIONS MASK







High Channel, 403.51 MHz								
					Value	Limit		
					(dBc)	≤ (dBc)	Result	
i					-57.07	-20	Pass	



Report No. BSTN0527 16/38

OUTPUT POWER



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
MN08 Direct Connect Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	10/2/2014	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC Block	Fairview Microwave	SD3379	AMI	10/2/2014	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	8/12/2014	36
Spectrum Analyzer	Agilent	E4443A	AAS	3/27/2014	12

TEST DESCRIPTION

Per FCC Part 2.1046, RSS-GEN, the output power shall be measured at the RF terminal. The peak output power was measured with the EUT configured in the modes listed in the datasheet. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting at its maximum data rate. FCC Part 95 and RSS-243 have no conducted output power limit. It is a requirement to characterize this information and that data is contained within this datasheet.

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OUTPUT POWER

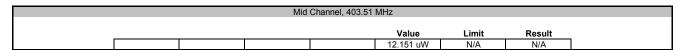


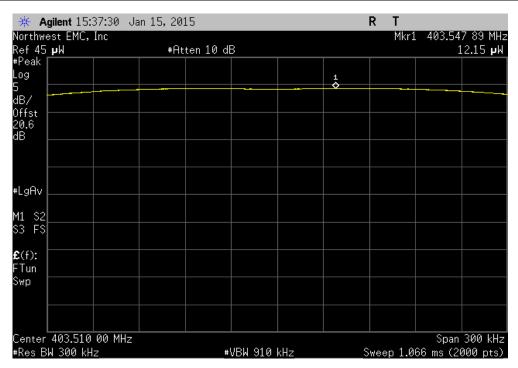
EUT:	Jaguar, Model 6290			Work Order:	BSTN0527	
Serial Number:	601	Date:	01/15/15			
Customer:	Boston Scientific Corporation			Temperature:	23.3°C	
Attendees:	None			Humidity:	18%	
Project:	None			Barometric Pres.:	1017.2	
Tested by:	Trevor Buls	Power:	110VAC/60Hz	Job Site:	MN08	
TEST SPECIFICATI	ONS		Test Method			
FCC 95I:2015			ANSI/TIA/EIA-603-C-2004			
COMMENTS						
Transmitting a mod	dulated carrier at 76.8 kbps.					
DEVIATIONS FROM	I TEST STANDARD					
None						
Configuration #	3 Signature	revor	Buls			
			·	Value	Limit	Result
Mid Channel, 403.51	MHz			12.151 uW	N/A	N/A

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OUTPUT POWER







Report No. BSTN0527 19/38



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Thermometer	Omega Engineering, Inc.	HH311	DUB	11/3/2014	36
Humidity Temperature Chamber	Cincinnati Sub Zero (CSZ)	ZPH-32-3.5-SCT/AC	TBF	NCR	0
Multimeter	Fluke	117	MNN	1/20/2014	36
Variable Transformer	Powerstat	246	XFR	NCR	0
MN08 Direct Connect Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	10/2/2014	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC Block	Fairview Microwave	SD3379	AMI	10/2/2014	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	8/12/2014	36
Spectrum Analyzer	Agilent	E4443A	AAS	3/27/2014	12

TEST DESCRIPTION

Variation of Supply Voltage

The primary supply voltage was varied from 85% to 115% of the nominal voltage. A variable transformer was used to vary the supply voltage.

Variation of Ambient Temperature

Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range (+55°C to +0°C at 10°C increments).

The Frequency Stability was measured using a direct connection to a spectrum analyzer. The spectrum analyzer is configured with a precision frequency reference that exceeds the stability requirement of the transmitter. The EUT was placed inside a temperature / humidity chamber. A low-loss coaxial cable connected the EUT to the spectrum analyzer outside of the chamber.

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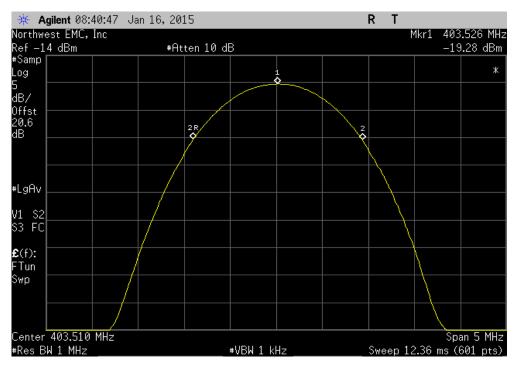


EUT:	Jaguar, Model 6290						Work Order:	BSTN0527	
Serial Number:	601						Date:	01/16/15	
Customer:	Boston Scientific Corpor	ration					Temperature:	22.9°C	
Attendees:	None						Humidity:	19%	
Project:							Barometric Pres.:		
	Trevor Buls		Power: 110				Job Site:	MN08	
TEST SPECIFICATI	IONS			t Method					
FCC 95I:2015			ANS	SI/TIA/EIA-603-C-2	2004				
COMMENTS									
Transmitting a mod	dulated carrier at 76.8 kbp	os.							
DEVIATIONS FROM	I TEST STANDARD								
None									
Configuration #	3	Signature	nevor!	Buls					
					Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Results
Normal Voltage									
	Mid Channel, 403.51 MHz	!			403.526	403.51	39.7	100	Pass
Extreme Voltage +15									
	Mid Channel, 403.51 MHz				403.526	403.51	39.7	100	Pass
Extreme Voltage -15									_
	Mid Channel, 403.51 MHz	!			403.526	403.51	39.7	100	Pass
Extreme Temperatur					400 500	100 51		400	
	Mid Channel, 403.51 MHz				403.526	403.51	39.7	100	Pass
Extreme Temperatur	Mid Channel, 403,51 MHz				403.526	403.51	39.7	100	Pass
Extreme Temperatur					403.326	403.51	39.7	100	rass
	Mid Channel, 403.51 MHz				403.526	403.51	39.7	100	Pass
Extreme Temperatur					403.320	4 03.31	53.1	100	1 455
	Mid Channel, 403,51 MHz				403.526	403.51	39.7	100	Pass
Extreme Temperatur					400.020	400.01	00.1	100	1 433
	Mid Channel, 403,51 MHz				403.522	403.51	29.7	100	Pass
Extreme Temperatur									
- Interior Grand	Mid Channel, 403.51 MHz	•			403.526	403.51	39.7	100	Pass
Extreme Temperatur									
	Mid Channel, 403.51 MHz				403.526	403.51	39.7	100	Pass

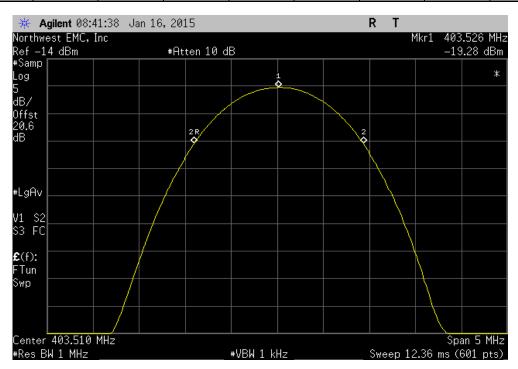
Report No. BSTN0527 21/38



		Normal Volta	ge, Mid Channel,	403.51 MHz		
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Results
l		403.526	403.51	39.7	100	Pass



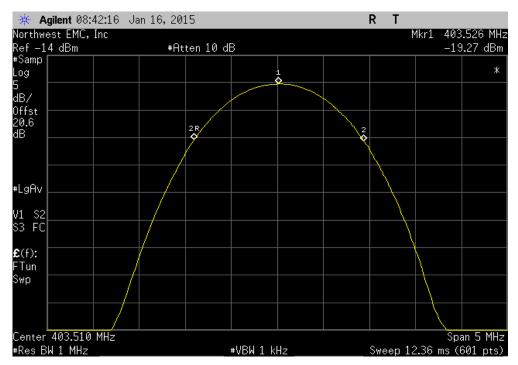
	Extreme Voltage	+15%, Mid Char	nel, 403.51 MHz		
	Measured	Assigned	Error	Limit	
	Value (MHz)	Value (MHz)	(ppm)	(ppm)	Results
	403.526	403.51	39.7	100	Pass



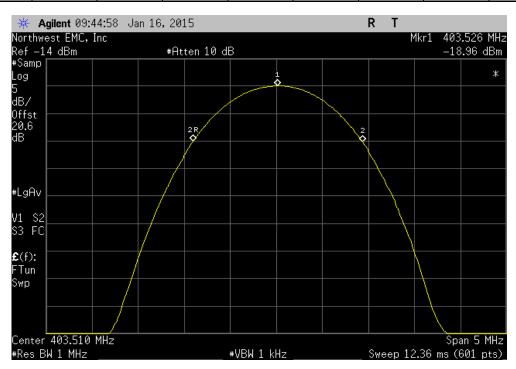
Report No. BSTN0527 22/38



	Extreme Voltage	e -15%, Mid Chan	nel, 403.51 MHz			
	Measured	Assigned	Error	Limit		
	Value (MHz)	Value (MHz)	(ppm)	(ppm)	Results	
	403.526	403.51	39.7	100	Pass	



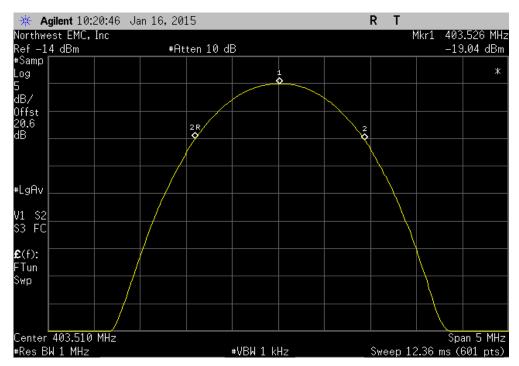
	Ex	treme Temperatu	ıre +55°C, Mid Cl	nannel, 403.51 M	Hz	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Results
		403.526	403.51	39.7	100	Pass



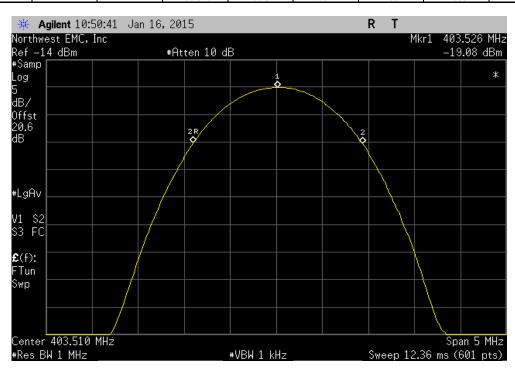
Report No. BSTN0527 23/38



	Ex	treme Temperatu	re +50°C, Mid Cl	nannel, 403.51 M	Hz	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Results
l		403.526	403.51	39.7	100	Pass



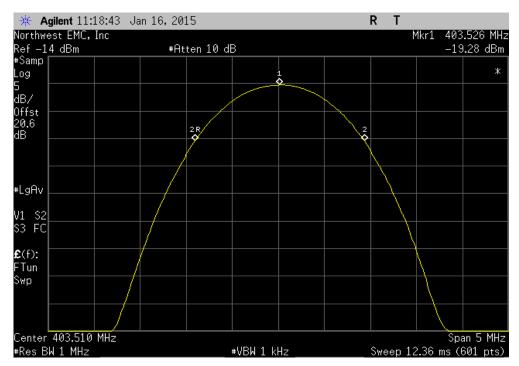
	Ex	treme Temperatu	ire +40°C, Mid Cl	nannel, 403.51 M	Hz	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Results
		403.526	403.51	39.7	100	Pass



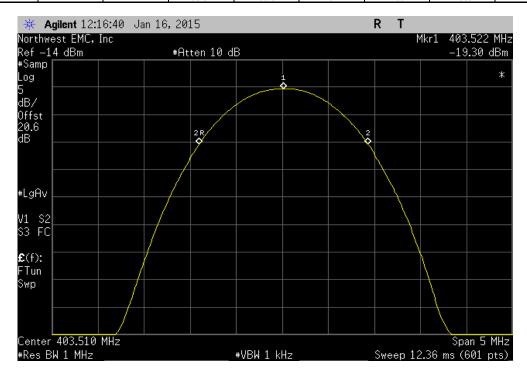
Report No. BSTN0527 24/38



	Ex	treme Temperatu	ure +30°C, Mid Cl	nannel, 403.51 MI	Hz		
		Measured	Assigned	Error	Limit		
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Results	_
		403.526	403.51	39.7	100	Pass	



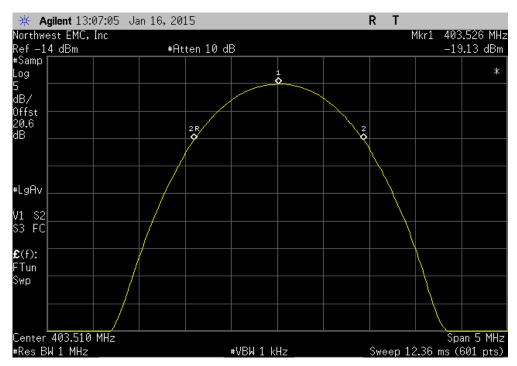
	Ex	treme Temperatu	ure +20°C, Mid Cl	nannel, 403.51 M	Hz	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Results
		403.522	403.51	29.7	100	Pass



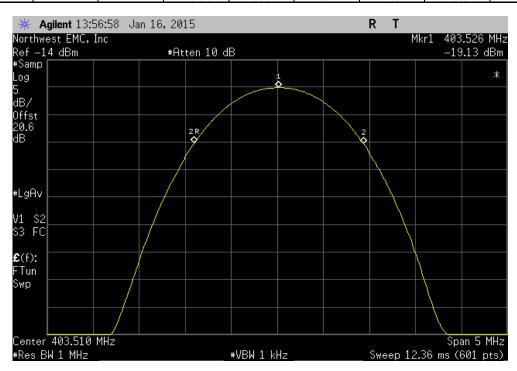
Report No. BSTN0527 25/38



	Ex	treme Temperatu	re +10°C, Mid Cl	nannel, 403.51 MI	Hz		
		Measured	Assigned	Error	Limit		
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Results	
		403.526	403.51	39.7	100	Pass	



	E	xtreme Tempera	ture 0°C, Mid Cha	annel, 403.51 MH	Z	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Results
		403.526	403.51	39.7	100	Pass



Report No. BSTN0527 26/38



SPURIOUS RADIATED EMISSIONS

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit

MODES OF OPERATION

Transmitting at 403.51 MHz, 76.8 kbps (high baud rate)

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

BSTN0527 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz	Stop Frequency	5 GHz
Otal Cricquericy 100 Wiriz	Olop i requeries	O 12

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	3/14/2014	12 mo
		Double Ridge Guide Horn			
MN05 Cables	ESM Cable Corp.	Cables	MNI	3/14/2014	12 mo
Antenna, Horn	ETS	3115	AJA	6/3/2014	24 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	3/14/2014	12 mo
Antenna, Biconilog	Teseq	CBL 6141B	AYD	12/17/2013	24 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	3/14/2014	12 mo
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	24 mo

MEASUREMENT BANDWIDTHS

Frequency Range	Peak Data	Quasi-Peak Data	Average Data
(MHz)	(kHz)	(kHz)	(kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured in the modes listed in the datasheet. For each configuration, the spectrum was scanned throughout the specified range. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009). A preamp was used for this test in order to provide sufficient measurement sensitivity.

Report No. BSTN0527 27/38

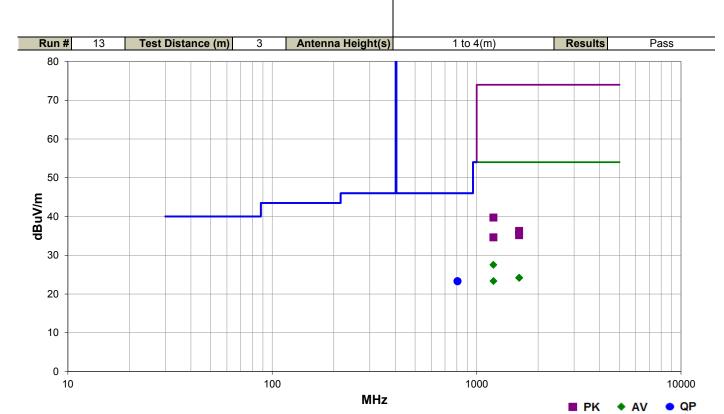


FCC 95I:2015

SPURIOUS RADIATED EMISSIONS

ANSI/TIA/EIA-603-C:2004

Work Order:	BSTN0527	Date:	01/15/15	20					
Project:	None	Temperature:	23.3 °C	Trevor Buls					
Job Site:	MN05	Humidity:	15.2% RH						
Serial Number:	601	Barometric Pres.:	1015.5 mbar	Tested by: Trevor Buls					
EUT:	Jaguar, Model 6290								
Configuration:	1								
Customer:	Boston Scientific Corp	oration							
Attendees:	None								
EUT Power:	110VAC/60Hz	110VAC/60Hz							
Operating Mode:	Transmitting at 403.5	1 MHz, 76.8 kbps (high	baud rate)						
Deviations:	None								
	Comments: EUT was tested in Horizontal position per the manufacturer because the device will always be operated in this position. Transmitting a modulated carrier at 76.8 kbps.								
Test Specifications			Test Meth	od					
E00 051 0015	•		ANIGUETIA	T.I. 000 0 000 I					



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
805.702	14.9	8.4	1.0	105.1	3.0	0.0	Horz	QP	0.0	23.3	46.0	-22.7
805.647	14.9	8.4	3.5	46.0	3.0	0.0	Vert	QP	0.0	23.3	46.0	-22.7
1208.130	34.0	-6.5	1.1	153.0	3.0	0.0	Horz	AV	0.0	27.5	54.0	-26.5
1616.173	29.6	-5.4	1.0	201.0	3.0	0.0	Horz	AV	0.0	24.2	54.0	-29.8
1615.290	29.6	-5.4	1.0	200.0	3.0	0.0	Vert	AV	0.0	24.2	54.0	-29.8
1209.663	29.8	-6.5	1.0	131.1	3.0	0.0	Vert	AV	0.0	23.3	54.0	-30.7
1208.130	46.2	-6.5	1.1	153.0	3.0	0.0	Horz	PK	0.0	39.7	74.0	-34.3
1613.707	41.7	-5.4	1.0	201.0	3.0	0.0	Horz	PK	0.0	36.3	74.0	-37.7
1613.582	40.6	-5.4	1.0	200.0	3.0	0.0	Vert	PK	0.0	35.2	74.0	-38.8
1208.547	41.1	-6.5	1.0	131.1	3.0	0.0	Vert	PK	0.0	34.6	74.0	-39.4

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SPURIOUS CONDUCTED EMISSIONS



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
MN08 Direct Connect Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	10/2/2014	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC Block	Fairview Microwave	SD3379	AMI	10/2/2014	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	8/12/2014	36
Spectrum Analyzer	Agilent	E4443A	AAS	3/27/2014	12

TEST DESCRIPTION

Per FCC Part 2.1052, RSS-GEN, the output power shall be measured at the RF terminal. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting at its maximum data rate. FCC Part 95 and RSS-243 have no conducted spurious limit. It is a requirement to characterize this information and that data is contained within this datasheet.

Report No. BSTN0527 29/38

SPURIOUS CONDUCTED EMISSIONS



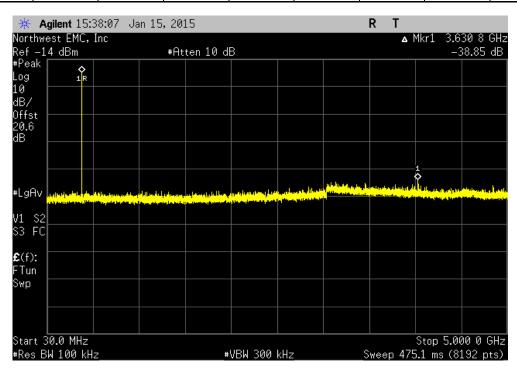
EUT:	Jaguar, Model 6290		Work Order:	BSTN0527	
Serial Number:	601		Date:	01/15/15	
Customer:	Boston Scientific Corporation		Temperature:	23.3°C	
Attendees:	None		Humidity:	18%	
Project:	None		Barometric Pres.:	1017.2	
Tested by:	Trevor Buls	Power: 110VAC/60Hz	Job Site:	MN08	
TEST SPECIFICATI	IONS	Test Method			
FCC 95I:2015		ANSI/TIA/EIA-603-C-2004			
COMMENTS					
Transmitting a mod	dulated carrier at 76.8 kbps.				
DEVIATIONS FROM	M TEST STANDARD				
None					
Configuration #	3 Signature	veror Buls			
		Frequency Range	Value (dBc)	Limit (dBc)	Result
Mid Channel, 403,51	1 MHz	30 MHz - 5 GHz	-38.86	N/A	N/A

Report No. BSTN0527 30/38

SPURIOUS CONDUCTED EMISSIONS



Mid Channel, 403.51 MHz							
Frequency	Value	Limit					
Range	(dBc)	(dBc)	Result				
		(' ')					
30 MHz - 5 GHz	-38.86	N/A	N/A				



Report No. BSTN0527 31/38



RADIATED POWER (EIRP)

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Transmitting at 403.51 MHz

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

BSTN0527 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz	Sto	p Frequenc	:V	15000 MHz
Start i requeries 100 mile		p i requeric	<i>,</i> ,	0000 WH IZ

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	3/14/2014	12 mo
MN05 Cables	ESM Cable Corp.	uble Ridge Guide Horn Cabl	MNI	3/14/2014	12 mo
Antenna, Horn	ETS	3115	AJA	6/3/2014	24 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	3/14/2014	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	3/14/2014	12 mo
Antenna, Biconilog	Teseq	CBL 6141B	AYD	12/17/2013	24 mo
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	24 mo

TEST DESCRIPTION

Per 95.627(g)(3), the maximum radiated field strength for a MEDS transmitter is 25uW EIRP. The Field Strength of the Fundamental data was converted to EIRP with the formula based upon the Friis transmission equation with 6 dB removed due to reflections from the ground plane: EIRP = $((E/2)*d)^2/30$ where E is V/m and d = distance = 3m, and EIRP = W.

The Field Strength of the Fundamental was measured in the far-field at an FCC Listed Semi-anechoic Chamber. Spectrum analyzer and linearly polarized antennas were used to measure the radiated field strength of the fundamental.

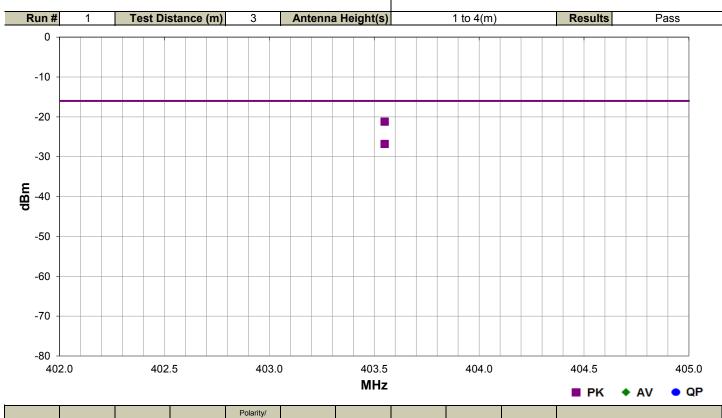
The orientation of the EUT and measurement antenna were manipulated to maximize the level of emissions. The turntable azimuth was varied to maximize the level of radiated emissions. The height of the measurement antenna was also varied from 1 to 4 meters. The amplitude and frequency of the emissions were noted.

Report No. BSTN0527 32/38



RADIATED POWER (EIRP)

Work Order:	BSTN0527	Date:	01/14/15							
Project:	None	Temperature:	22.6 °C							
Job Site:	MN05	Humidity:	11.7% RH							
Serial Number:	601	Barometric Pres.:	1024.5 mbar	Tested by: Johnathan Lee						
EUT:	Jaguar, Model 6290									
Configuration:	1									
Customer:	Boston Scientific Corp	oration								
Attendees:	Pete Musto									
EUT Power:	110VAC/60Hz	110VAC/60Hz								
Operating Mode:	Transmitting 403.51 N	Transmitting 403.51 MHz								
Deviations:	None									
	Comments: EUT was tested in Horizontal position per the manufacturer because the device will always be operated in this position. Transmitting an unmodulated carrier.									
Test Specifications			Test Met	thod						
FCC 95I:2015	•		ANSI/TIA	VEIA-603-C:2004						



Transducer Type Compared to EIRP EIRP Spec. Limit Comments Freq Antenna Height Azimuth Detector Spec. (meters) (Watts) (dBm) (dBm) (dB) (MHz) (degrees) 403.550 EUT Horz, Ch 10, Pwr 50 1.0 358.0 Horz PΚ 7.59E-06 -21.2 -16.0 -5.2 403.550 1.0 88.1 Vert 2.09E-06 -26.8 -16.0 -10.8 EUT Horz, Ch 10, Pwr 50

Report No. BSTN0527 33/38



TEST DESCRIPTION

The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at a middle channel in the operational band. The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.10-2009.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
High Pass Filter	TTE	H97-100K-50-720B	HGN	05/23/2014	12 mo
Attenuator 20dB, BNC	Fairview Microwave	SA01B-20	AQP	07/22/2014	12 mo
MN03 Cables	ESM Cable Corp.	Conducted Cables	MNC	11/20/2014	12 mo
LISN	Solar Electronics	9252-50-R-24-BNC	LIY	05/15/2014	12 mo
Receiver	Rohde & Schwarz	ESR7	ARI	05/06/2014	12 mo

MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	2.4 dB	-2.4 dB

CONFIGURATIONS INVESTIGATED

BSTN0527-2

MODES INVESTIGATED

Transmitting at 403.51 MHz, 76.8 kbps (high baud rate)

Report No. BSTN0527 34/38



EUT:	Jaguar, Model 6290	Work Order:	BSTN0527
Serial Number:	601	Date:	01/15/2015
Customer:	Boston Scientific Corporation	Temperature:	23.3°C
Attendees:	None	Relative Humidity:	17.8%
Customer Project:	None	Bar. Pressure:	1016.5 mb
Tested By:	Trevor Buls	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0527-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2009

TEST PARAMETERS

Run #:	3	Line:	Neutral	Ext. Attenuation (dE	3):	20

COMMENTS

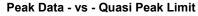
Transmitting a modulated carrier at 76.8 kbps.

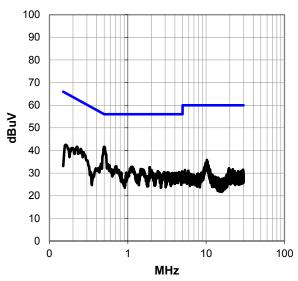
EUT OPERATING MODES

Transmitting at 403.51 MHz, 76.8 kbps (high baud rate)

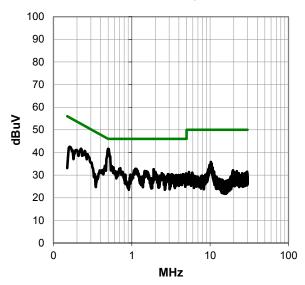
DEVIATIONS FROM TEST STANDARD

None





Peak Data - vs - Average Limit



Report No. BSTN0527 35/38



RESULTS - Run #3

Peak Data - vs - Quasi Peak Limit

Peak Data - vs - Quasi Peak Limit						
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)	
0.501	21.4	20.2	41.6	56.0	-14.4	
0.225	21.6	20.1	41.7	62.6	-20.9	
0.161	22.3	20.2	42.5	65.4	-22.9	
0.713	12.9	20.2	33.1	56.0	-22.9	
1.113	12.6	20.2	32.8	56.0	-23.2	
1.900	12.3	20.3	32.6	56.0	-23.4	
1.463	11.6	20.2	31.8	56.0	-24.2	
10.223	15.0	20.8	35.8	60.0	-24.2	
2.008	11.1	20.3	31.4	56.0	-24.6	
10.432	14.3	20.8	35.1	60.0	-24.9	
2.415	10.5	20.3	30.8	56.0	-25.2	
4.922	10.3	20.5	30.8	56.0	-25.2	
3.247	10.1	20.3	30.4	56.0	-25.6	
2.933	10.1	20.3	30.4	56.0	-25.6	
4.508	10.0	20.4	30.4	56.0	-25.6	
0.829	10.0	20.2	30.2	56.0	-25.8	
0.956	10.0	20.2	30.2	56.0	-25.8	
3.321	9.8	20.3	30.1	56.0	-25.9	
3.056	9.8	20.3	30.1	56.0	-25.9	
4.463	9.7	20.4	30.1	56.0	-25.9	
4.224	9.7	20.4	30.1	56.0	-25.9	
3.967	9.7	20.4	30.1	56.0	-25.9	
3.709	9.6	20.4	30.0	56.0	-26.0	
4.433	9.5	20.4	29.9	56.0	-26.1	
4.302	9.5	20.4	29.9	56.0	-26.1	
3.217	9.5	20.3	29.8	56.0	-26.2	

Peak Data - vs - Average Limit						
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)	
0.501	21.4	20.2	41.6	46.0	-4.4	
0.225	21.6	20.1	41.7	52.6	-10.9	
0.161	22.3	20.2	42.5	55.4	-12.9	
0.713	12.9	20.2	33.1	46.0	-12.9	
1.113	12.6	20.2	32.8	46.0	-13.2	
1.900	12.3	20.3	32.6	46.0	-13.4	
1.463	11.6	20.2	31.8	46.0	-14.2	
10.223	15.0	20.8	35.8	50.0	-14.2	
2.008	11.1	20.3	31.4	46.0	-14.6	
10.432	14.3	20.8	35.1	50.0	-14.9	
2.415	10.5	20.3	30.8	46.0	-15.2	
4.922	10.3	20.5	30.8	46.0	-15.2	
3.247	10.1	20.3	30.4	46.0	-15.6	
2.933	10.1	20.3	30.4	46.0	-15.6	
4.508	10.0	20.4	30.4	46.0	-15.6	
0.829	10.0	20.2	30.2	46.0	-15.8	
0.956	10.0	20.2	30.2	46.0	-15.8	
3.321	9.8	20.3	30.1	46.0	-15.9	
3.056	9.8	20.3	30.1	46.0	-15.9	
4.463	9.7	20.4	30.1	46.0	-15.9	
4.224	9.7	20.4	30.1	46.0	-15.9	
3.967	9.7	20.4	30.1	46.0	-15.9	
3.709	9.6	20.4	30.0	46.0	-16.0	

20.4

20.4

20.3

CONCLUSION

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29.9

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46.0

46.0

46.0

-16.1

-16.1

-16.2

Report No. BSTN0527 36/38

4.433

4.302

3.217

9.5

9.5

9.5



EUT:	Jaguar, Model 6290	Work Order:	BSTN0527
Serial Number:	601	Date:	01/15/2015
Customer:	Boston Scientific Corporation	Temperature:	23.3°C
Attendees:	None	Relative Humidity:	17.8%
Customer Project:	None	Bar. Pressure:	1016.5 mb
Tested By:	Trevor Buls	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0527-2

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2009

TEST PARAMETERS

Run #:	4	Line:	High Line	Ext. Attenuation (dB):	20

COMMENTS

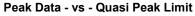
Transmitting a modulated carrier at 76.8 kbps.

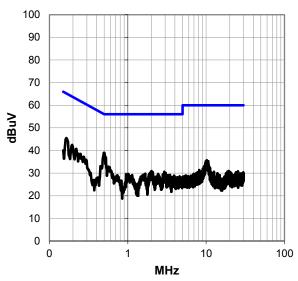
EUT OPERATING MODES

Transmitting at 403.51 MHz, 76.8 kbps (high baud rate)

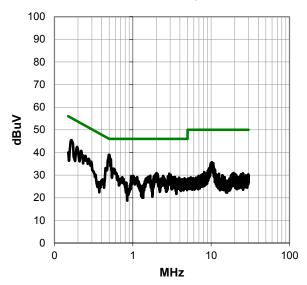
DEVIATIONS FROM TEST STANDARD

None





Peak Data - vs - Average Limit



Report No. BSTN0527 37/38



RESULTS - Run #4

Peak Data - vs - Quasi Peak Limit

Peak Data - vs - Quasi Peak Limit							
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)		
0.501	18.8	20.2	39.0	56.0	-17.0		
0.165	25.3	20.2	45.5	65.2	-19.7		
0.195	22.3	20.1	42.4	63.8	-21.4		
0.221	20.6	20.1	40.7	62.8	-22.1		
0.564	12.7	20.2	32.9	56.0	-23.1		
0.247	18.4	20.1	38.5	61.9	-23.3		
10.242	14.9	20.8	35.7	60.0	-24.3		
10.652	14.5	20.8	35.3	60.0	-24.7		
2.008	10.6	20.3	30.9	56.0	-25.1		
2.929	10.2	20.3	30.5	56.0	-25.5		
2.079	10.2	20.3	30.5	56.0	-25.5		
10.693	13.4	20.8	34.2	60.0	-25.8		
1.967	9.9	20.3	30.2	56.0	-25.8		
3.045	9.8	20.3	30.1	56.0	-25.9		
9.764	13.3	20.7	34.0	60.0	-26.0		
0.150	19.8	20.2	40.0	66.0	-26.0		
1.672	9.5	20.3	29.8	56.0	-26.2		
2.441	9.3	20.3	29.6	56.0	-26.4		
1.016	9.4	20.2	29.6	56.0	-26.4		
1.870	9.3	20.3	29.6	56.0	-26.4		
0.956	9.2	20.2	29.4	56.0	-26.6		
2.806	9.0	20.3	29.3	56.0	-26.7		
3.448	8.8	20.3	29.1	56.0	-26.9		
3.105	8.8	20.3	29.1	56.0	-26.9		
1.139	8.9	20.2	29.1	56.0	-26.9		
0.736	8.9	20.2	29.1	56.0	-26.9		

Peak Data - vs - Average Limit						
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)	
0.501	18.8	20.2	39.0	46.0	-7.0	
0.165	25.3	20.2	45.5	55.2	-9.7	
0.195	22.3	20.1	42.4	53.8	-11.4	
0.221	20.6	20.1	40.7	52.8	-12.1	
0.564	12.7	20.2	32.9	46.0	-13.1	
0.247	18.4	20.1	38.5	51.9	-13.3	
10.242	14.9	20.8	35.7	50.0	-14.3	
10.652	14.5	20.8	35.3	50.0	-14.7	
2.008	10.6	20.3	30.9	46.0	-15.1	
2.929	10.2	20.3	30.5	46.0	-15.5	
2.079	10.2	20.3	30.5	46.0	-15.5	
10.693	13.4	20.8	34.2	50.0	-15.8	
1.967	9.9	20.3	30.2	46.0	-15.8	
3.045	9.8	20.3	30.1	46.0	-15.9	
9.764	13.3	20.7	34.0	50.0	-16.0	
0.150	19.8	20.2	40.0	56.0	-16.0	
1.672	9.5	20.3	29.8	46.0	-16.2	
2.441	9.3	20.3	29.6	46.0	-16.4	
1.016	9.4	20.2	29.6	46.0	-16.4	
1.870	9.3	20.3	29.6	46.0	-16.4	
0.956	9.2	20.2	29.4	46.0	-16.6	
2.806	9.0	20.3	29.3	46.0	-16.7	
3.448	8.8	20.3	29.1	46.0	-16.9	
3.105	8.8	20.3	29.1	46.0	-16.9	
1.139	8.9	20.2	29.1	46.0	-16.9	
0.736	8.9	20.2	29.1	46.0	-16.9	

CONCLUSION

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