

Boston Scientific Corporation

Jaguar Communicator

Report No. BSTN0336

Report Prepared By



www.nwemc.com
1-888-EMI-CERT

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EMC Test Report



22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test
Last Date of Test: December 2, 2011
Boston Scientific Corporation
Model: Jaguar Communicator

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Field Strength of Fundamental	FCC 15.249:2011	ANSI C63.10:2009	Pass
Field Strength of Harmonics	FCC 15.249:2011	ANSI C63.10:2009	Pass
Field Strength of Harmonics	FCC 15.205:2011	ANSI C63.10:2009	Pass
AC Powerline Conducted Emissions	FCC 15.207:2011	ANSI C63.10:2009	Pass

Modifications made to the product

See the Modifications section of this report

Test Facility

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
9349 W Broadway Ave.
Brooklyn Park, MN 55445

Phone: (763) 425-2281 Fax: (763) 424-3469

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site filing #2834E-1).

Approved By:

Rod Munro, Operations Manager



NVLAP Lab Code: 200881-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

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. This Report may only be duplicated in its entirety. 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.

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.



Accreditations and Authorizations

FCC

Accredited by NVLAP for performance of FCC radio, digital, and ISM device testing. Our Open Area Test Sites, certification chambers, and conducted measurement facilities have been fully described in reports filed with the FCC and accepted by the FCC in letters maintained in our files. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by the FCC as a Telecommunications Certification Body (TCB). This allows Northwest EMC to certify transmitters to FCC specifications in accordance with 47 CFR 2.960 and 2.962.

NVLAP

Northwest EMC, Inc. is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. NVLAP is administered by the National Institute of Standards and Technology (NIST), an agency of the U.S. Commerce Department. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 2004/108/EC, and ANSI C63.4. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.

Industry Canada

Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS-Gen, Issue 2 and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements. (*Site Filing Numbers - Hillsboro: 2834D-1, 2834D-2, Sultan: 2834C-1, Irvine: 2834B-1, 2834B-2, Brooklyn Park: 2834E-1*)

CAB

Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement.

Australia/New Zealand

The National Association of Testing Authorities (NATA), Australia has been appointed by the ACA as an accreditation body to accredit test laboratories and competent bodies for EMC standards. Accredited test reports or assessments by competent bodies must carry the NATA logo. Test reports made by an overseas laboratory that has been accredited for the relevant standards by an overseas accreditation body that has a Mutual Recognition Agreement (MRA) with NATA are also accepted as technical grounds for product conformity. The report should be endorsed with the respective logo of the accreditation body (NVLAP).



Accreditations and Authorizations

VCCI

Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. *(Registration Numbers. - Hillsboro: C-1071, R-1025, G-84, C-2687, T-1658, and R-2318, Irvine: R-1943, G-85, C-2766, and T-1659, Sultan: R-871, G-83, C-3265, and T-1511, Brooklyn Park: R-3125, G-86, G-141, C-3464, and T-1634).*

BSMI

Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement (US0017).

GOST

Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification

KCC

Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. *(Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157, Brooklyn Park: US0175)*

VIETNAM

Vietnam MIC has approved Northwest EMC as an accredited test lab. Per Decision No. 194/QD-QLCL (dated December 15, 2009), Northwest EMC test reports can be used for Vietnam approval submissions.

SCOPE

For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/accreditations/>



Northwest EMC Locations



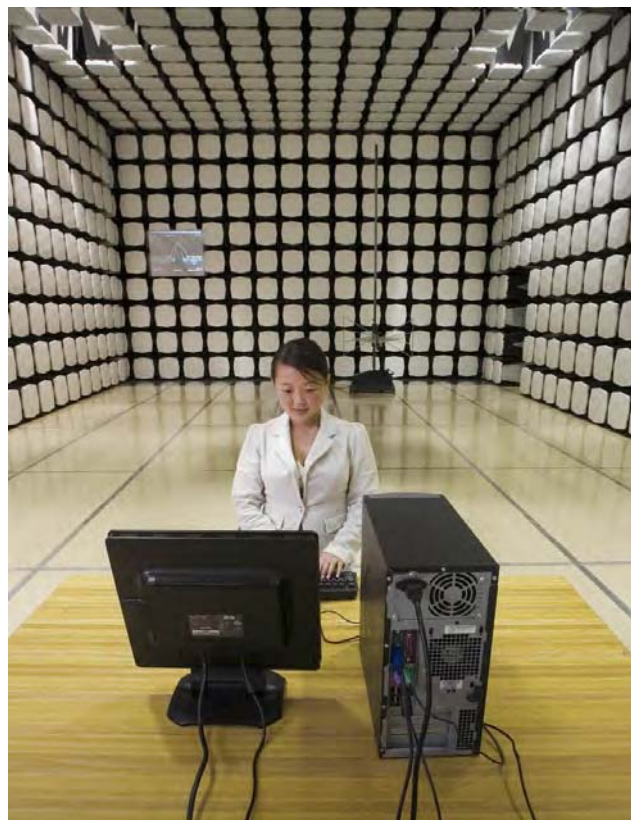
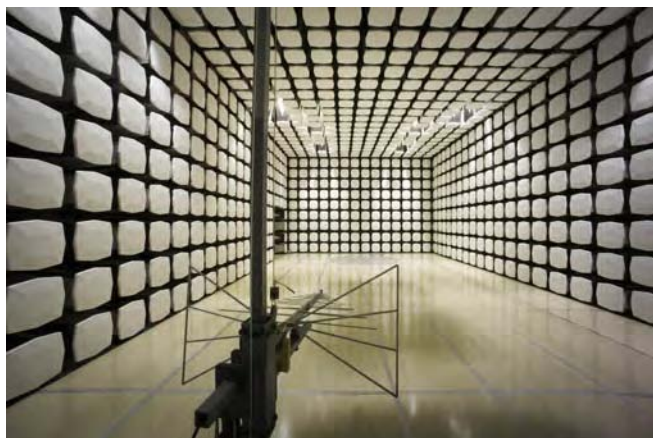
Oregon
Labs EV01-EV12
22975 NW Evergreen Pkwy
Suite 400
Hillsboro, OR 97124
(503) 844-4066

California
Labs OC01-OC13
41 Tesla
Irvine, CA 92618
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Labs MN01-MN08
9349 W Broadway Ave.
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Washington
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14128 339th Ave. SE
Sultan, WA 98294
(360) 793-8675

New York
Labs WA01-WA04
4939 Jordan Rd.
Elbridge, NY 13060
(315) 685-0796



Party Requesting the Test

Company Name:	Boston Scientific Corporation
Address:	4100 Hamline Avenue North
City, State, Zip:	St. Paul, MN 55112-5798
Test Requested By:	Pete Musto
Model:	Jaguar Communicator
First Date of Test:	October 25, 2011
Last Date of Test:	December 2, 2011
Receipt Date of Samples:	October 24, 2011
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test**Functional Description of the EUT (Equipment Under Test):**

Communicator

Testing Objective:

To demonstrate compliance to FCC 15.249 specifications

CONFIGURATION 1 BSTN0336 & BSTN0350

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Jaguar Communicator	Boston Scientific	6498	008
AC Power Supply	GlobTek, Inc.	GTM41060-1505	0411

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Bluetooth Dongle	Delta Mobile Systems, Inc.	DM210	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Power Cord	No	1.9m	Yes	EUT	AC Mains
RJ11 Cable (2)	No	2.2m	No	EUT	Unterminated
USB Cable	Yes	1.9m	No	EUT	Unterminated
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 2 BSTN0336

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Jaguar Communicator	Boston Scientific	6498	008
AC Power Supply	GlobTek, Inc.	GTM41060-1505	0411

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Power Cord	No	1.9m	Yes	EUT	AC Mains
RJ11 Cable (2)	No	2.2m	No	EUT	Unterminated
USB Cable	Yes	1.9m	No	EUT	Unterminated
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	10/25/2011	AC Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	12/2/2011	Field Strength of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	12/2/2011	Field Strength of Harmonics	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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: 916.5 MHz, ISM band, (transmitting all ones)

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

BSTN0350 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	902 MHz	Stop Frequency	928 MHz
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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
Antenna, Biconilog	ETS Lindgren	3142D	AXN	12/30/2009	24 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	2/2/2011	12 mo
Spectrum Analyzer	Agilent	E4446A	AAT	2/15/2011	12 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

Measurements were made using the IF bandwidths and detectors specified. No video filter was used, except in the case of the FCC Average Measurements above 1GHz. In that case, a peak detector with a 10Hz video bandwidth was used.

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The highest gain antenna to be used with the EUT was tested during final measurements. The EUT was transmitting and while set at the only channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, and adjusting the measurement antenna height and polarization (per ANSI C63.10:2009).

EMC**Field Strength of Fundamental**

Work Order:	BSTN0350	Date:	12/02/11	<i>Trevor Buls</i> Tested by: Trevor Buls
Project:	None	Temperature:	24.44 °C	
Job Site:	MN05	Humidity:	12.5% RH	
Serial Number:	1119	Barometric Pres.:	1028.9 mbar	
EUT:	Jaguar (Antenna Change)			
Configuration:	1			
Customer:	Boston Scientific Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting: 916.5 MHz, ISM band, (transmitting all ones)			
Deviations:	None			
Comments:	EUT tested in Horizontal only because this is the only position the device will be operated in as specified by the manufacturer.			

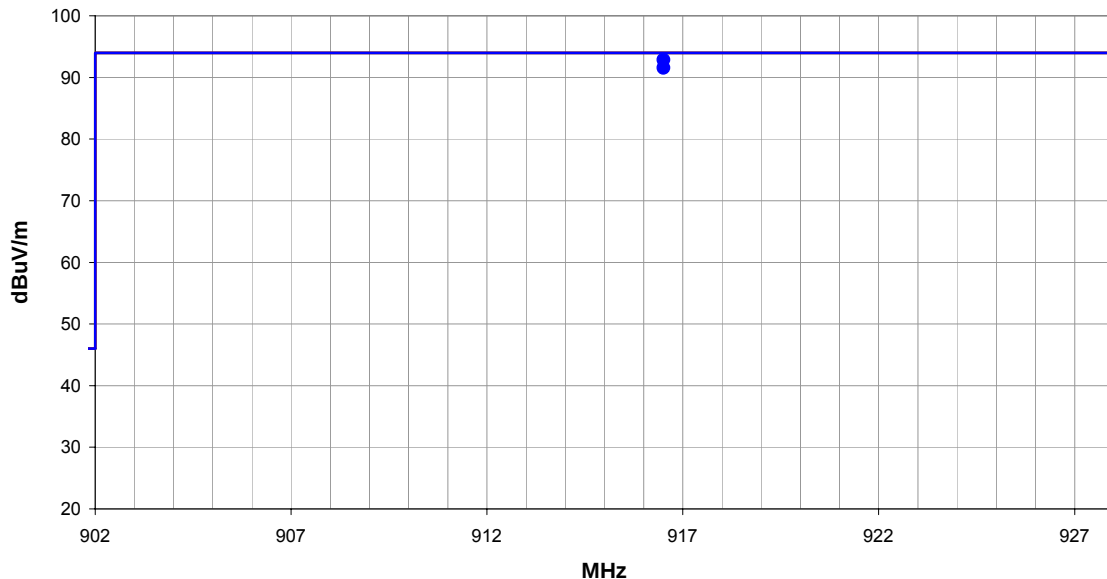
Test Specifications

FCC 15.249:2010

Test Method

ANSI C63.4:2009

Run #	1	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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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)
916.511	60.5	32.4	1.4	59.0	3.0	0.0	Horz	QP	0.0	92.9	94.0	-1.1
916.511	59.2	32.4	1.1	180.0	3.0	0.0	Vert	QP	0.0	91.6	94.0	-2.4

EMC**Field Strength of Harmonics**

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: 916.5 MHz, ISM band, (transmitting pseudo random data)

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

BSTN0350 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	10 GHz
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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
Attenuator, 20 dB, 'SMA'	SM Electronics	SA6-20	REO	7/1/2011	12 mo
Attenuator, 10db, 'SMA'	S.M. Electronics	SA18H-10	REN	7/1/2011	12 mo
Low Pass Filter 0-425 MHz	Micro-Tronics	LPM50003	HGO	7/9/2010	24 mo
High Pass Filter	Micro-Tronics	HPM50108	HGP	7/9/2010	24 mo
MN05 Cables	ESM Cable Corp.	Standard Gain Horn Cables	MNJ	7/1/2011	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVV	7/1/2011	12 mo
Antenna, Horn	ETS	3160-07	AXP	NCR	0 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	7/1/2011	12 mo
Antenna, Horn (DRG)	ETS Lindgren	3115	AIP	6/29/2011	24 mo
MN05 Cables	ESM Cable Corp.	DRG Horn Cables	MNI	10/18/2011	12 mo
Pre-Amplifier	Miteq	AM-1616-1000	AVY	7/1/2011	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	2/2/2011	12 mo
Antenna, Biconilog	ETS Lindgren	3142D	AXN	12/30/2009	24 mo
Spectrum Analyzer	Agilent	E4446A	AAT	2/15/2011	12 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

Measurements were made using the IF bandwidths and detectors specified. No video filter was used, except in the case of the FCC Average Measurements above 1GHz. In that case, a peak detector with a 10Hz video bandwidth was used.

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The highest gain antenna to be used with the EUT was tested during final measurements. The EUT was transmitting and receiving while set at the only channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, and adjusting the measurement antenna height and polarization (per ANSI C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

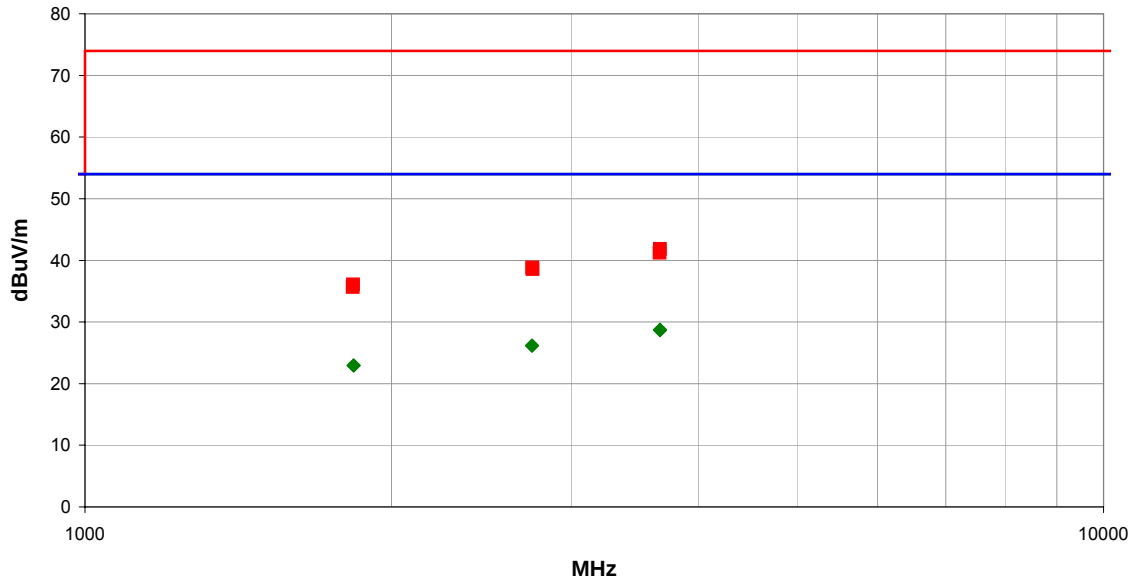
EMC

Field Strength of Harmonics

Work Order:	BSTN0350	Date:	12/02/11	<i>Trevor Buls</i>
Project:	None	Temperature:	24.44 °C	
Job Site:	MN05	Humidity:	12.5% RH	
Serial Number:	1119	Barometric Pres.:	1028.9 mbar	Tested by: Trevor Buls
EUT:	Jaguar (Antenna Change)			
Configuration:	1			
Customer:	Boston Scientific Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting: 916.5 MHz, ISM band, (transmitting pseudo random data)			
Deviations:	None			
Comments:	EUT tested in Horizontal only because this is the only position the device will be operated in as specified by the manufacturer.			

Test Specifications
FCC 15.249:2011Test Method
ANSI C63.10:2009

Run #	4	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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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)
3668.425	28.6	0.1	2.4	315.0	3.0	0.0	Horz	AV	0.0	28.7	54.0	-25.3
3668.383	28.5	0.1	3.2	77.0	3.0	0.0	Vert	AV	0.0	28.6	54.0	-25.4
2747.050	29.0	-2.9	2.1	146.0	3.0	0.0	Vert	AV	0.0	26.1	54.0	-27.9
2747.017	29.0	-2.9	1.0	342.0	3.0	0.0	Horz	AV	0.0	26.1	54.0	-27.9
1835.467	27.8	-4.9	1.0	225.0	3.0	0.0	Horz	AV	0.0	22.9	54.0	-31.1
1835.433	27.8	-4.9	2.8	243.0	3.0	0.0	Vert	AV	0.0	22.9	54.0	-31.1
3668.142	41.7	0.1	3.2	77.0	3.0	0.0	Vert	PK	0.0	41.8	74.0	-32.2
3666.883	41.1	0.1	2.4	315.0	3.0	0.0	Horz	PK	0.0	41.2	74.0	-32.8
2748.883	41.7	-2.9	2.1	146.0	3.0	0.0	Vert	PK	0.0	38.8	74.0	-35.2
2751.817	41.4	-2.8	1.0	342.0	3.0	0.0	Horz	PK	0.0	38.6	74.0	-35.4
1832.883	41.0	-4.9	2.8	243.0	3.0	0.0	Vert	PK	0.0	36.1	74.0	-37.9
1831.700	40.6	-4.9	1.0	225.0	3.0	0.0	Horz	PK	0.0	35.7	74.0	-38.3

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.

MODES OF OPERATION

Transmitting: 916.5MHz, ISM band, (transmitting all ones)

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

BSTN0336 - 2

SAMPLE CALCULATIONS

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar Electronics	9252-50-R-24-BNC	LIY	7/5/2011	12 mo
MN03 Cables	ESM Cable Corp.	Conducted Cables	MNC	5/18/2011	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HGN	6/28/2010	24 mo
Attenuator, 20 dB	SM Electronics	SA01B-20	REF	1/3/2011	12 mo
Receiver	Rohde & Schwarz	ESCI	ARG	3/22/2011	12 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

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

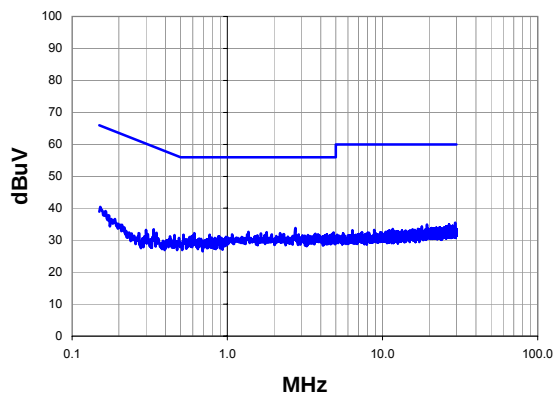
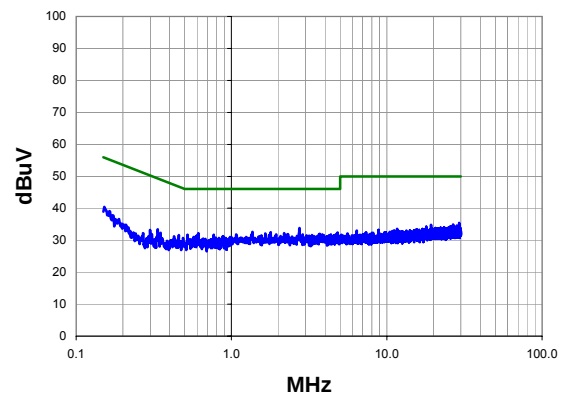
The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the ISM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

EMC**AC POWERLINE CONDUCTED EMISSIONS**

Work Order:	BSTN0336	Date:	10/25/11	
Project:	None	Temperature:	20.1 °C	
Job Site:	MN03	Humidity:	48.2% RH	
Serial Number:	8	Barometric Pres.:	1015 mbar	
				Tested by: Mark Baytan
EUT:	Jaguar Communicator			
Configuration:	2			
Customer:	Boston Scientific Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting: 916.5MHz ISM band, (transmitting all ones)			
Deviations:	None			
Comments:	None			

Test Specifications
FCC 15.249:2011**Test Method**
ANSI C63.10:2009

Run #	3	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit**Peak Data - vs - Average Limit****Peak Data - vs - Quasi Peak Limit**

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted ()	Spec. Limit ()	Compared to Spec. (dB)
2.744	13.5	20.3	33.8	56.0	-22.2
1.368	12.4	20.2	32.6	56.0	-23.4
1.792	12.3	20.3	32.6	56.0	-23.4
4.832	11.9	20.5	32.4	56.0	-23.6
2.184	11.9	20.3	32.2	56.0	-23.8
0.612	12.0	20.2	32.2	56.0	-23.8
1.648	11.9	20.3	32.2	56.0	-23.8
3.696	11.6	20.4	32.0	56.0	-24.0
4.376	11.4	20.5	31.9	56.0	-24.1
2.880	11.5	20.3	31.8	56.0	-24.2
0.522	11.5	20.2	31.7	56.0	-24.3
0.769	11.5	20.2	31.7	56.0	-24.3
0.601	11.4	20.2	31.6	56.0	-24.4
29.330	13.0	22.4	35.4	60.0	-24.6
0.589	11.0	20.2	31.2	56.0	-24.8
0.878	11.0	20.2	31.2	56.0	-24.8
26.800	12.8	22.1	34.9	60.0	-25.1
0.458	11.4	20.2	31.6	56.7	-25.1
19.320	13.4	21.4	34.8	60.0	-25.2
0.791	10.6	20.2	30.8	56.0	-25.2

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted ()	Spec. Limit ()	Compared to Spec. (dB)
2.744	13.5	20.3	33.8	46.0	-12.2
1.368	12.4	20.2	32.6	46.0	-13.4
1.792	12.3	20.3	32.6	46.0	-13.4
4.832	11.9	20.5	32.4	46.0	-13.6
2.184	11.9	20.3	32.2	46.0	-13.8
0.612	12.0	20.2	32.2	46.0	-13.8
1.648	11.9	20.3	32.2	46.0	-13.8
3.696	11.6	20.4	32.0	46.0	-14.0
4.376	11.4	20.5	31.9	46.0	-14.1
2.880	11.5	20.3	31.8	46.0	-14.2
0.522	11.5	20.2	31.7	46.0	-14.3
0.769	11.5	20.2	31.7	46.0	-14.3
0.601	11.4	20.2	31.6	46.0	-14.4
29.330	13.0	22.4	35.4	50.0	-14.6
0.589	11.0	20.2	31.2	46.0	-14.8
0.878	11.0	20.2	31.2	46.0	-14.8
26.800	12.8	22.1	34.9	50.0	-15.1
0.458	11.4	20.2	31.6	46.7	-15.1
19.320	13.4	21.4	34.8	50.0	-15.2
0.791	10.6	20.2	30.8	46.0	-15.2

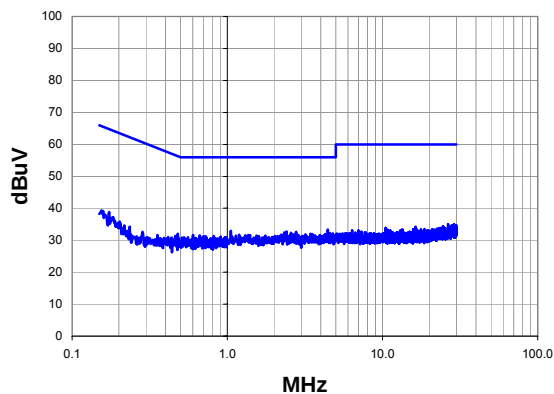
EMC**AC POWERLINE CONDUCTED EMISSIONS**

Work Order:	BSTN0336	Date:	10/25/11	
Project:	None	Temperature:	20.1 °C	
Job Site:	MN03	Humidity:	48.2% RH	
Serial Number:	8	Barometric Pres.:	1015 mbar	
				Tested by: Mark Baytan
EUT:	Jaguar Communicator			
Configuration:	2			
Customer:	Boston Scientific Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting: 916.5MHz, ISM band (transmitting all ones)			
Deviations:	None			
Comments:	None			

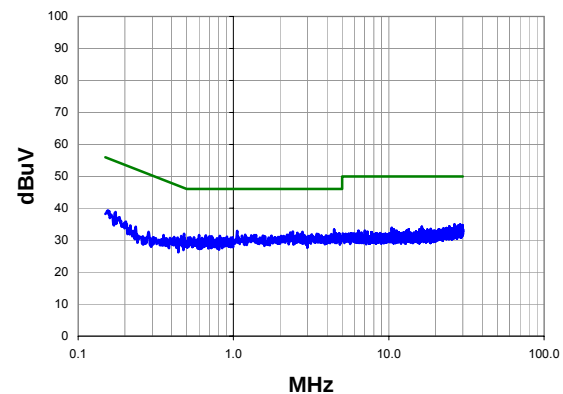
Test Specifications
FCC 15.249:2011Test Method
ANSI C63.10:2009

Run #	4	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted ()	Spec. Limit ()	Compared to Spec. (dB)
4.448	12.9	20.5	33.4	56.0	-22.6
1.056	12.7	20.2	32.9	56.0	-23.1
2.408	12.4	20.3	32.7	56.0	-23.3
2.776	12.3	20.3	32.6	56.0	-23.4
2.576	12.0	20.3	32.3	56.0	-23.7
4.584	11.7	20.5	32.2	56.0	-23.8
4.800	11.6	20.5	32.1	56.0	-23.9
3.440	11.7	20.3	32.0	56.0	-24.0
1.192	11.5	20.2	31.7	56.0	-24.3
0.480	11.8	20.2	32.0	56.3	-24.3
1.400	11.4	20.2	31.6	56.0	-24.4
0.601	11.4	20.2	31.6	56.0	-24.4
0.663	11.3	20.2	31.5	56.0	-24.5
0.818	11.1	20.2	31.3	56.0	-24.7
0.704	11.0	20.2	31.2	56.0	-24.8
0.723	11.0	20.2	31.2	56.0	-24.8
0.906	10.9	20.2	31.1	56.0	-24.9
26.460	12.9	22.1	35.0	60.0	-25.0
28.810	12.6	22.3	34.9	60.0	-25.1
0.527	10.7	20.2	30.9	56.0	-25.1

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted ()	Spec. Limit ()	Compared to Spec. (dB)
4.448	12.9	20.5	33.4	46.0	-12.6
1.056	12.7	20.2	32.9	46.0	-13.1
2.408	12.4	20.3	32.7	46.0	-13.3
2.776	12.3	20.3	32.6	46.0	-13.4
2.576	12.0	20.3	32.3	46.0	-13.7
4.584	11.7	20.5	32.2	46.0	-13.8
4.800	11.6	20.5	32.1	46.0	-13.9
3.440	11.7	20.3	32.0	46.0	-14.0
1.192	11.5	20.2	31.7	46.0	-14.3
0.480	11.8	20.2	32.0	46.3	-14.3
1.400	11.4	20.2	31.6	46.0	-14.4
0.601	11.4	20.2	31.6	46.0	-14.4
0.663	11.3	20.2	31.5	46.0	-14.5
0.818	11.1	20.2	31.3	46.0	-14.7
0.704	11.0	20.2	31.2	46.0	-14.8
0.723	11.0	20.2	31.2	46.0	-14.8
0.906	10.9	20.2	31.1	46.0	-14.9
26.460	12.9	22.1	35.0	50.0	-15.0
28.810	12.6	22.3	34.9	50.0	-15.1
0.527	10.7	20.2	30.9	46.0	-15.1