



Boston Scientific Corporation

Model 6290

FCC 95I:2013 / FCC 15.109:2013 / FCC 15.207:2013 / FCC 15.107:2013

Report #: BSTN0429.1



Report Prepared By Northwest EMC Inc.

NORTHWEST EMC – (888) 364-2378 – www.nwemc.com

California – Minnesota – Oregon – New York – Washington

CERTIFICATE OF TEST

Last Date of Test: August 15, 2013
Boston Scientific Corporation
Model: Model 6290

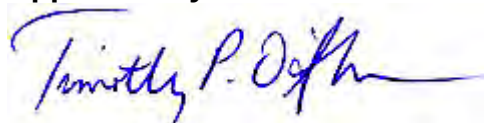
Emissions

Test Description	Specification	Test Method	Pass/Fail
Effective Radiated Power of the Fundamental	FCC 95I:2013, FCC 2.1046:2013	ANSI/TIA/EIA-603-C:2004	Pass
Emission Mask	FCC 95I:2013, FCC 2.1049:2013	ANSI/TIA/EIA-603-C:2004	Pass
Emission Bandwidth	FCC 95I:2013, FCC 2.1049:2013	ANSI/TIA/EIA-603-C:2004	Pass
Output Power	FCC 95I:2013, FCC 2.1046:2013	ANSI/TIA/EIA-603-C:2004	Pass
Frequency Stability	FCC 95I:2013, FCC 2.1055:2013	ANSI/TIA/EIA-603-C:2004	Pass
Spurious Radiated Emissions	FCC 95I:2013, FCC 2.1053:2013	ANSI/TIA/EIA-603-C:2004	Pass
Receiver Spurious Emissions	FCC 15.109:2013 Class B	ANSI C63.4:2009	Pass
AC Powerline Conducted Emissions	FCC 15.207:2013	ANSI C63.10:2009	Pass
AC Powerline Conducted Emissions	FCC 15.107:2013 Class B	ANSI C63.4:2009	Pass

Deviations From Test Standards

None

Approved By:



Tim O'Shea, 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 HISTORY

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

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

KCC / 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.

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.

Russia

GOST – Accredited by Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC to perform EMC and Hygienic testing for Information Technology products to GOST standards.

SCOPE

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

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

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.

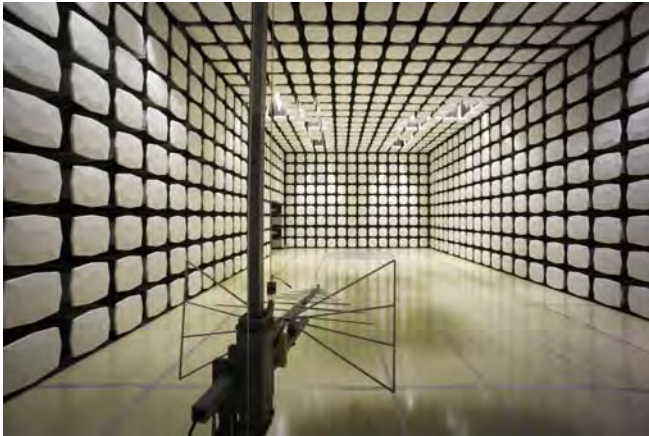
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is listed below. Our measurement 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 16-4-1 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	- MU
Frequency Accuracy (Hz)	0.12	-0.01
Amplitude Accuracy (dB)	0.49	-0.49
Conducted Power (dB)	0.41	-0.41
Radiated Power via Substitution (dB)	0.69	-0.68
Temperature (degrees C)	0.81	-0.81
Humidity (% RH)	2.89	-2.89
Field Strength (dB)	3.80	-3.80
AC Powerline Conducted Emissions (dB)	2.94	-2.94



Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	California Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918	New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Minnesota Labs MN01-08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Washington Labs NC01-05, SU02, SU07 19201 120 th Ave. NE Bothell, WA 98011 (425) 984-6600
VCCI				
A-0108	A-0029		A-0109	A-0110
Industry Canada				
2834D-1, 2834D-2	2834B-1, 2834B-2, 2834B-3		2834E-1	2834C-1
NVLAP				
NVLAP Lab Code: 200630-0	NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200629-0





PRODUCT DESCRIPTION

Client and Equipment Under Test (EUT) Information

Company Name:	Boston Scientific Corporation
Address:	4100 Hamline Avenue North
City, State, Zip:	St. Paul, MN 55112-5798
Test Requested By:	Pete Musto
Model:	Model 6290
First Date of Test:	August 2, 2013
Last Date of Test:	August 15, 2013
Receipt Date of Samples:	August 1, 2013
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
In-Home Patient Management System allows one to remotely follow most Boston Scientific device patients.
Testing Objective:
To demonstrate FCC compliance with the MICS radio per Boston Scientific EDVT Protocol 1114584.

Configuration BSTN0429- 3

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Jaguar Communicator (MICS)	Boston Scientific Corporation	6290	0000626
Cell Modem (MICS)	Boston Scientific Corporation	400379-010	0000085
DC Brick (Jaguar)	GlobTek Inc.	GTM41061-1512-7.0	None
Bluetooth Dongle	Delta Mobile Systems	DM210	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Power	No	1.90m	Yes	DC Brick	Jaguar Communicator
USB	Yes	0.20m	Yes	Cell Modem	Jaguar Communicator
RJ11 (x2)	No	2.15m	No	Unterminated	Jaguar Communicator

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

Configuration BSTN0429- 12

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
DC Brick (Jaguar)	GlobTek Inc.	GTM41061-1512-7.0	None
Bluetooth Dongle	Delta Mobile Systems	DM210	None
Jaguar Communicator (MICS)	Boston Scientific Corporation	6290	0000621

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Netbook (MICS)	Acer	Aspire One	LUSAL0B137011502C81601
DC Brick (Acer Netbook)	Delta Electronics Inc.	ADP-40TH A	None
Cell Modem (MICS)	Boston Scientific Corporation	400379-010	0000106

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Power	No	1.90m	Yes	DC Brick	Jaguar Communicator
USB	Yes	0.20m	Yes	Cell Modem	Jaguar Communicator
Serial	Yes	1.90m	No	USB to Serial Adapter	Jaguar Communicator
RJ11 (x2)	No	2.15m	No	Unterminated	Jaguar Communicator
DC Power	No	2.50m	Yes	Netbook (MICS)	DC Brick (Acer Netbook)

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	8/2/2013	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	8/12/2013	Emission Mask	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	8/12/2013	Output Power	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.
4	8/12/2013	Emission Bandwidth	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.
5	8/13/2013	Effective Radiated Power of the 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.
6	8/13/2013	Frequency Stability	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.
7	8/15/2013	Spurious Radiated 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.
8	8/15/2013	Receiver Spurious Emissions	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

Per Boston Scientific EDVT# 1114584: Mode 2. Transmitting unmodulated, low channel: 402.15 MHz, mid channel: 403.35 MHz, high channel: 404.85 MHz

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

BSTN0429 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	402 MHz	Stop Frequency	405 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
Pre-Amplifier	Miteq	AM-1616-1000	PAD	5/20/2013	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	5/20/2013	12 mo
Antenna, Bilog	Teseq	CBL 6141B	AYD	12/17/2012	12 mo
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	24 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (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

Per 95.627(g)(3), the maximum radiated field strength for a MICS 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 $EIRP = W$.

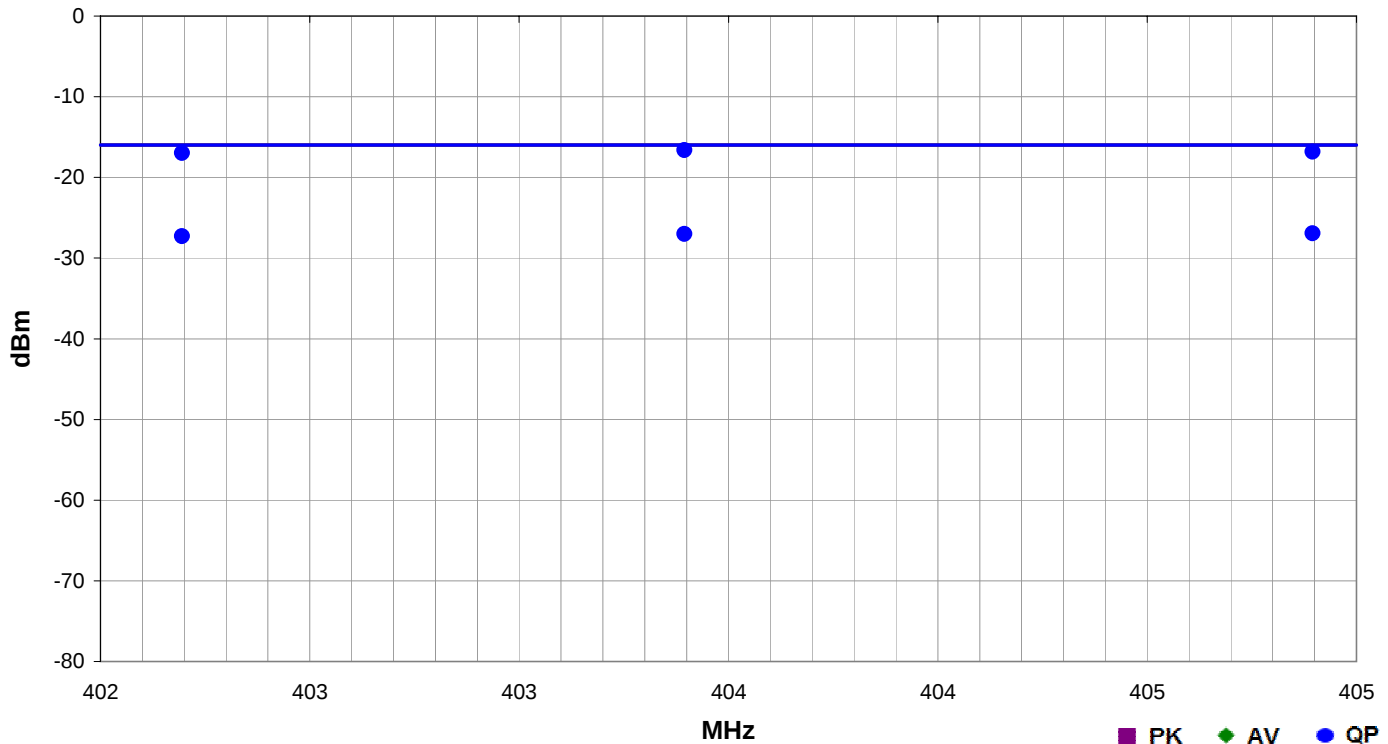
The Field Strength of the Fundamental was measured in the far-field at an FCC Listed Semi-anechoic Chamber. Spectrum analyzer and linearly polarized antennas were used to measure the radiated field strength of the fundamental.

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.

Effective Radiated Power of the Fundamental

Work Order:	BSTN0429	Date:	08/13/13		
Project:	None	Temperature:	23.5 °C		
Job Site:	MN05	Humidity:	44.6% RH		
Serial Number:	0000626	Barometric Pres.:	1022 mbar	Tested by:	Johnathan Lee, Trevor Buls
EUT:	Model 6290				
Configuration:	3				
Customer:	Boston Scientific Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Per Boston Scientific EDVT# 1114584: Mode 2. Transmitting unmodulated, low channel: 402.15 MHz, mid channel: 403.35 MHz, high channel: 404.85 MHz				
Deviations:	None				
Comments:	Manufacturer states that device will only be operated in horizontal orientation				

Test Specifications					Test Method		
FCC 95I:2013					ANSI/TIA/EIA-603-C:2004		
Run #	9	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass



Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
403.395	1.8	15.0	Horz	QP	2.18E-05	-16.6	-16.0	-0.6	EUT Horizontal, Mid Ch
404.895	1.8	11.0	Horz	QP	2.08E-05	-16.8	-16.0	-0.8	EUT Horizontal, High Ch
402.195	1.8	15.0	Horz	QP	2.00E-05	-17.0	-16.0	-1.0	EUT Horizontal, Low Ch
404.895	1.0	193.0	Vert	QP	2.03E-06	-26.9	-16.0	-10.9	EUT Horizontal, High Ch
403.395	1.0	191.0	Vert	QP	1.99E-06	-27.0	-16.0	-11.0	EUT Horizontal, High Ch
402.195	1.0	90.0	Vert	QP	1.87E-06	-27.3	-16.0	-11.3	EUT Horizontal, Low Ch

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

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/12/2013	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/5/2012	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	5/15/2012	24

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 MICS 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.



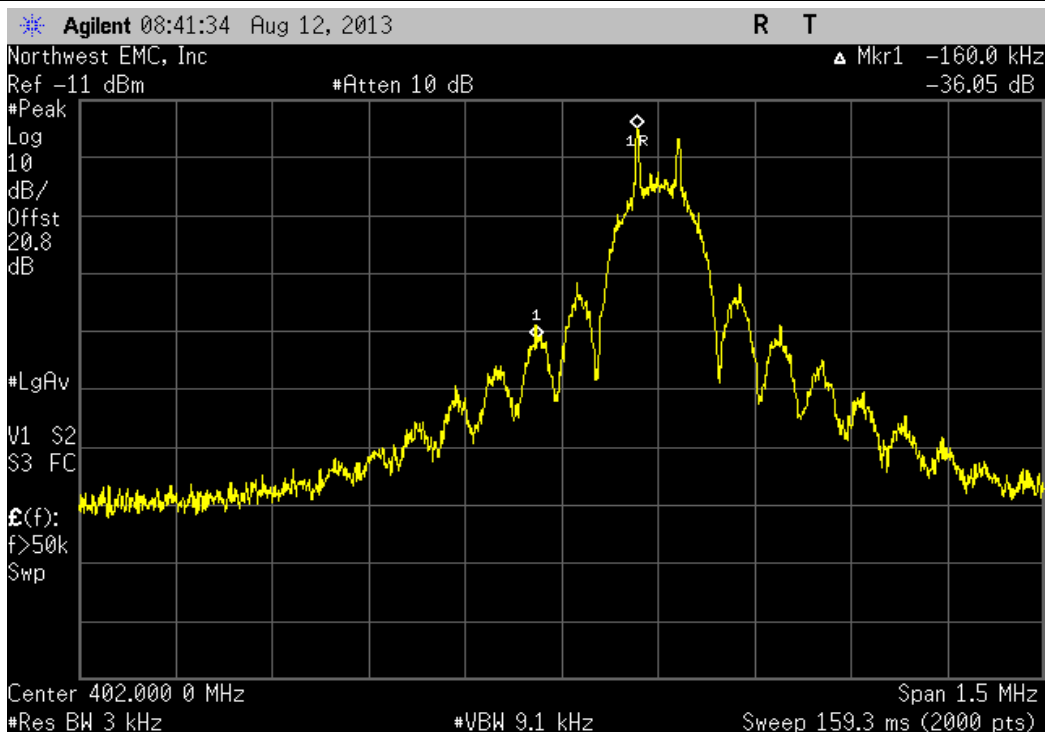
Emissions Mask

XMit 2013.02.28
PsaTx 2013.07.11

EUT: Model 6290		Work Order: BSTN0429	
Serial Number: 0000621		Date: 08/12/13	
Customer: Boston Scientific Corporation		Temperature: 24.0°C	
Attendees: None		Humidity: 48%	
Project: None		Barometric Pres.: 1016.6	
Tested by: Trevor Buls		Power: 110VAC/60Hz	
		Job Site: MN08	
TEST SPECIFICATIONS			
FCC 95:2013		Test Method	
		ANSI/TIA/EIA-603-C-2004	
COMMENTS			
Per Boston Scientific EDVT# 1114584: Mode 2.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	12	Signature <i>Trevor Buls</i>	
		Value	Limit
Low Channel, 402.15 MHz		-36.05 dBc	≤ -20 dBc
High Channel, 404.85 MHz		-34.69 dBc	≤ -20 dBc
			Result
			Pass
			Pass

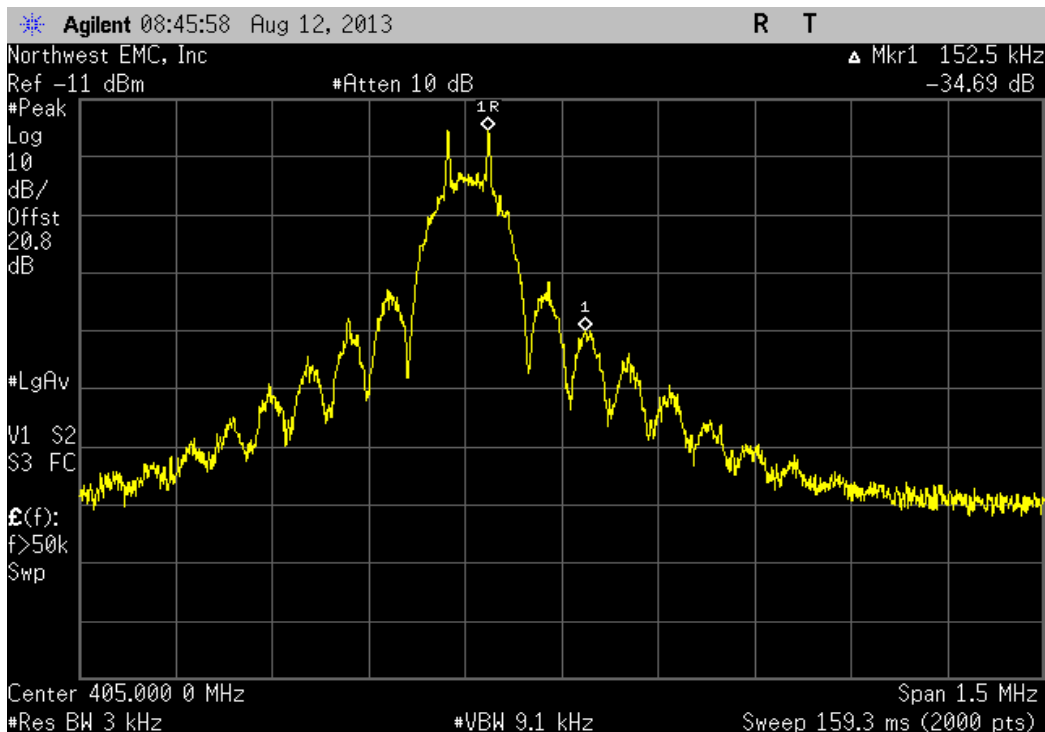
Low Channel, 402.15 MHz

				Value	Limit	Result
				-36.05 dBc	≤ -20 dBc	Pass



High Channel, 404.85 MHz

				Value	Limit	Result
				-34.69 dBc	≤ -20 dBc	Pass



Emission 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

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/12/2013	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/5/2012	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	5/15/2012	24

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.



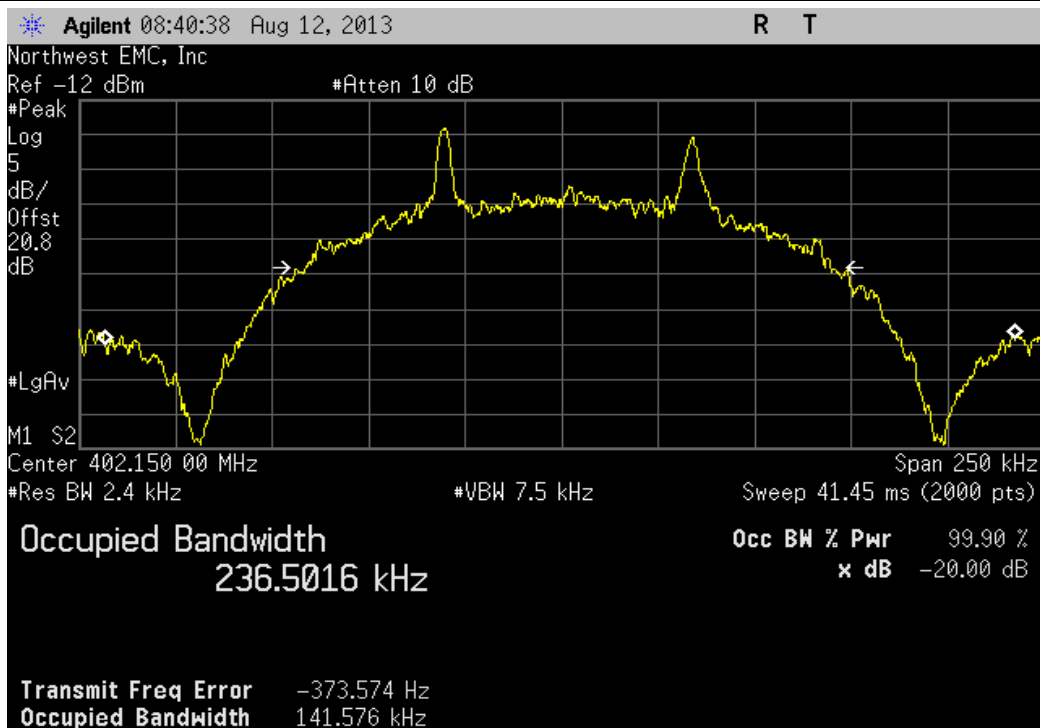
Emission Bandwidth

XMit 2013.02.28
PsaTx 2013.07.11

EUT: Model 6290		Work Order: BSTN0429	
Serial Number: 0000621		Date: 08/12/13	
Customer: Boston Scientific Corporation		Temperature: 24.0°C	
Attendees: None		Humidity: 48%	
Project: None		Barometric Pres.: 1016.6	
Tested by: Trevor Buls		Power: 110VAC/60Hz	
		Job Site: MN08	
TEST SPECIFICATIONS			
FCC 95:2013		Test Method	
		ANSI/TIA/EIA-603-C-2004	
COMMENTS			
Per Boston Scientific EDVT# 1114584: Mode 2.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	12	Signature <i>Trevor Buls</i>	
		Value	Limit
Low Channel, 402.15 MHz		141.576 kHz	≤ 300 kHz
Mid Channel, 403.35 MHz		139.978 kHz	≤ 300 kHz
High Channel, 404.85 MHz		141.271 kHz	≤ 300 kHz
			Result
			Pass
			Pass
			Pass

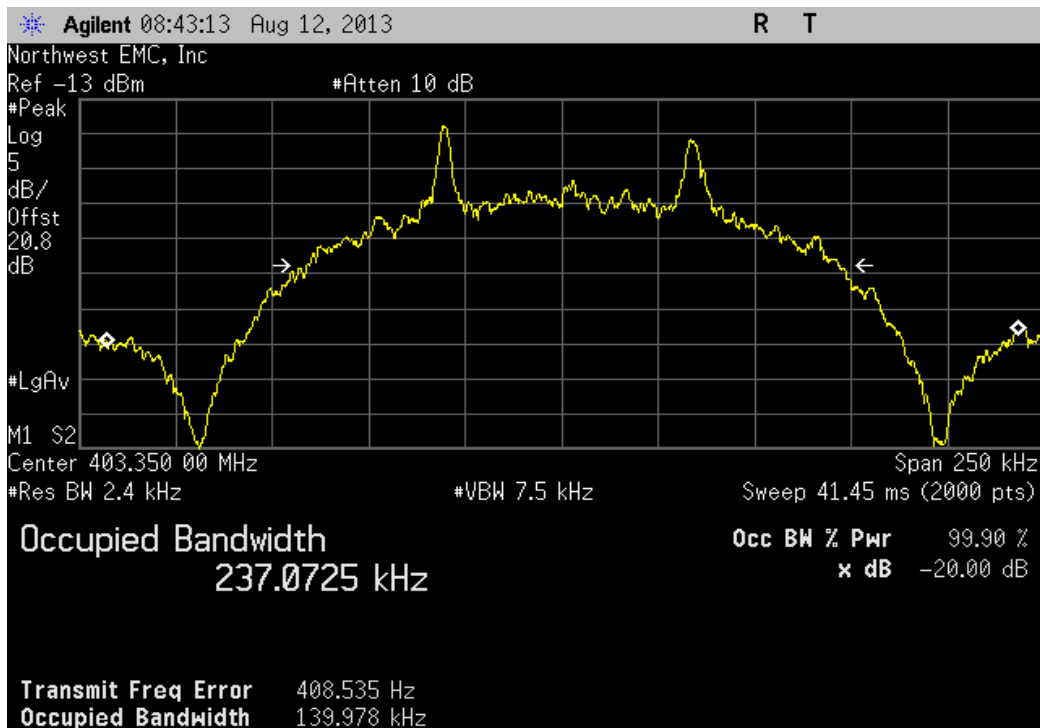
Low Channel, 402.15 MHz

				Value	Limit	Result
				141.576 kHz	≤ 300 kHz	Pass



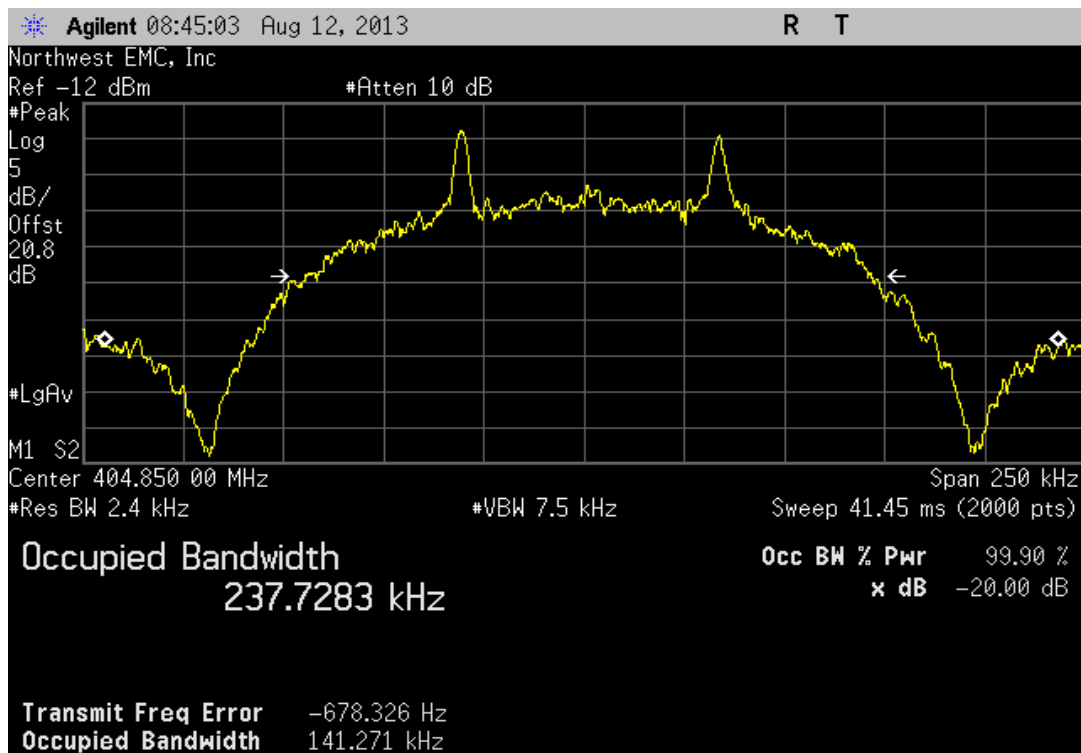
Mid Channel, 403.35 MHz

				Value	Limit	Result
				139.978 kHz	≤ 300 kHz	Pass



High Channel, 404.85 MHz

				Value	Limit	Result
				141.271 kHz	≤ 300 kHz	Pass



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

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/12/2013	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/5/2012	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	5/15/2012	24

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 set to low, medium and high transmit frequencies. 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.



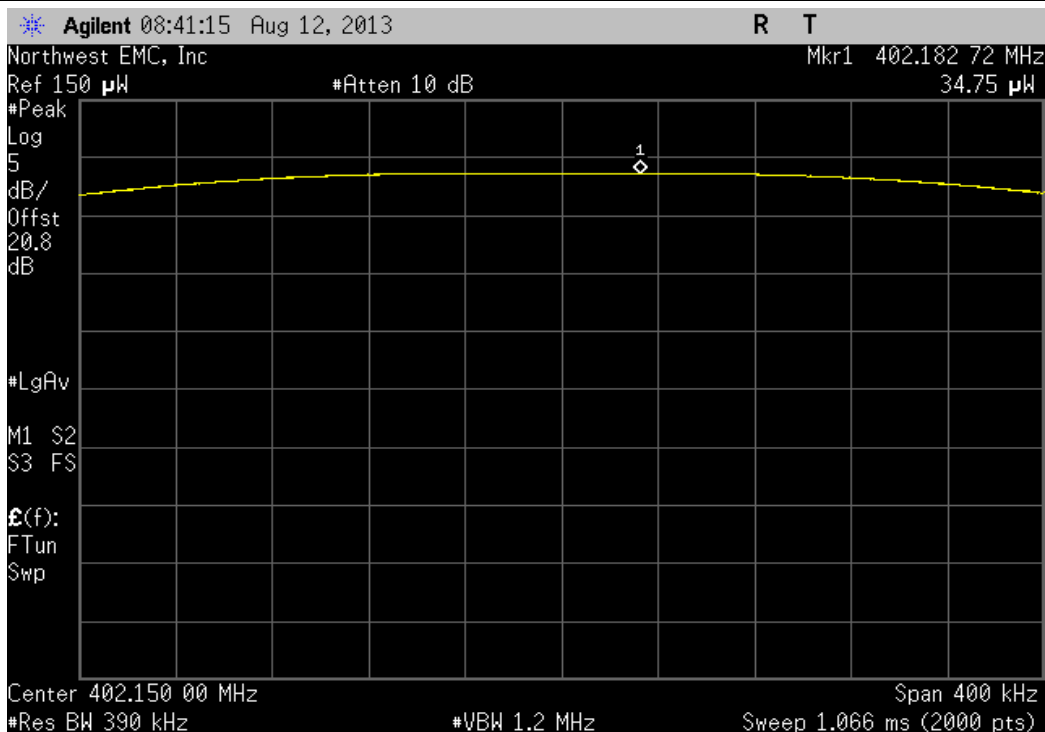
Output Power

XMit 2013.02.28
PsaTx 2013.07.11

EUT: Model 6290		Work Order: BSTN0429	
Serial Number: 0000621		Date: 08/12/13	
Customer: Boston Scientific Corporation		Temperature: 24.0°C	
Attendees: None		Humidity: 48%	
Project: None		Barometric Pres.: 1016.6	
Tested by: Trevor Buls		Power: 110VAC/60Hz	
		Job Site: MN08	
TEST SPECIFICATIONS			
FCC 95:2013		Test Method	
		ANSI/TIA/EIA-603-C-2004	
COMMENTS			
Per Boston Scientific EDVT# 1114584: Mode 2.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	12	Signature <i>Trevor Buls</i>	
		Value	Limit
Low Channel, 402.15 MHz		34.754 uW	N/A
Mid Channel, 403.35 MHz		28.074 uW	N/A
High Channel, 404.85 MHz		40.068 uW	N/A
		Result	
		N/A	
		N/A	
		N/A	

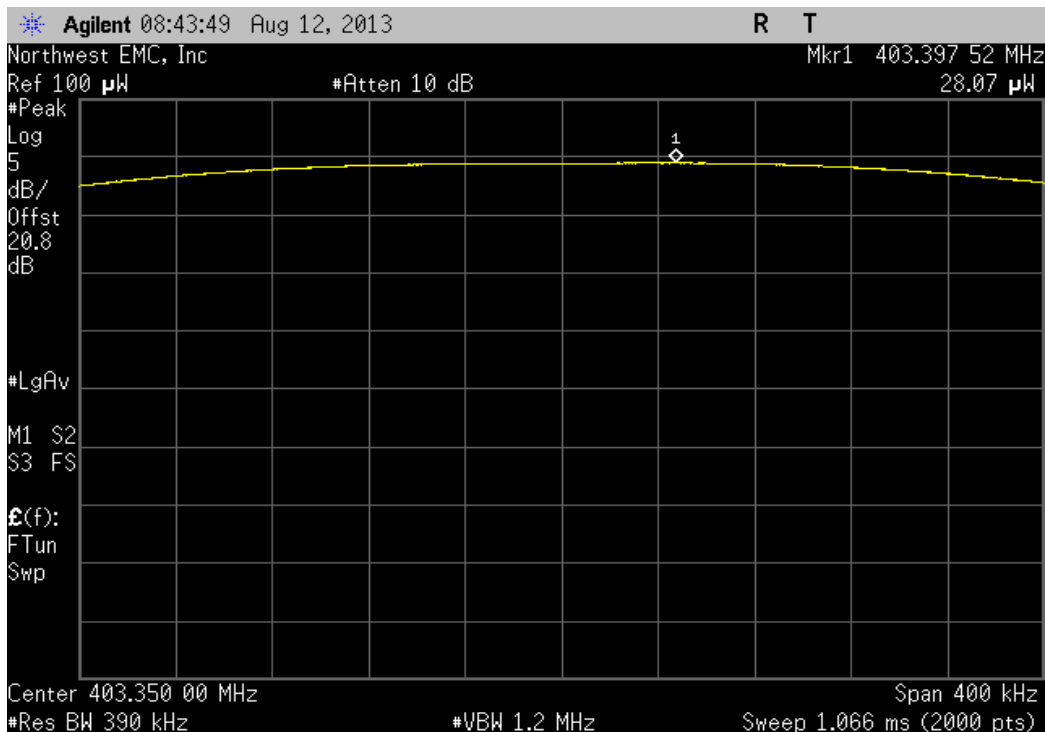
Low Channel, 402.15 MHz

				Value	Limit	Result
				34.754 uW	N/A	N/A



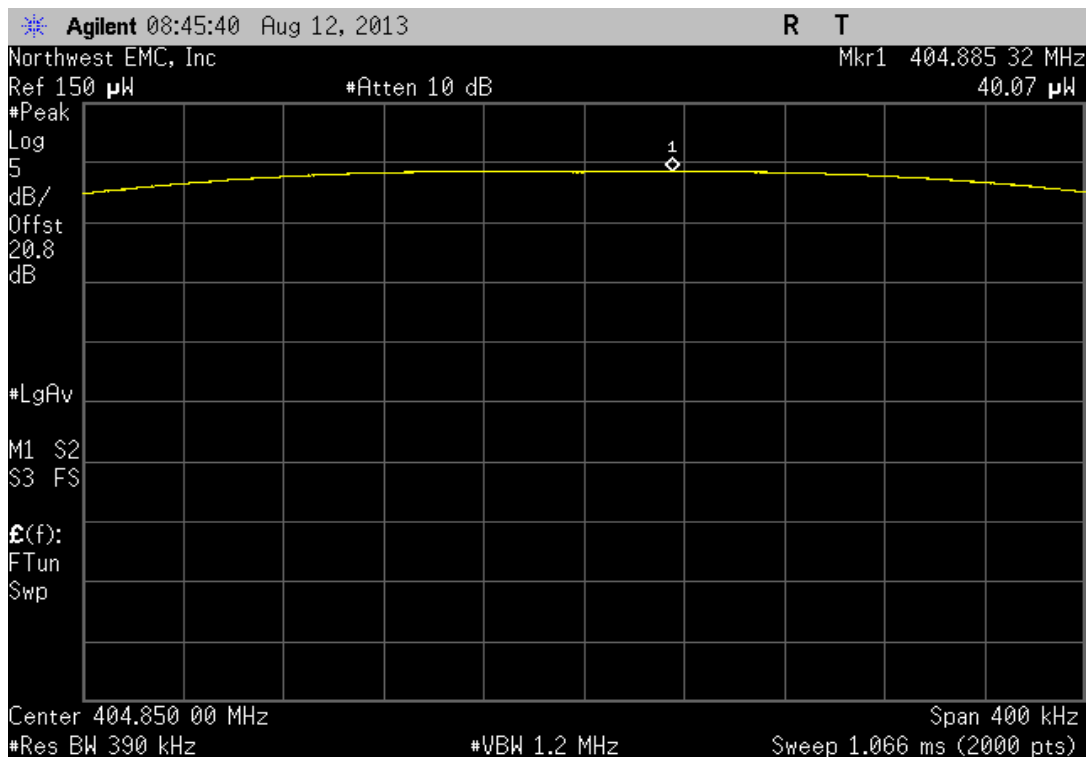
Mid Channel, 403.35 MHz

				Value	Limit	Result
				28.074 uW	N/A	N/A



High Channel, 404.85 MHz

				Value	Limit	Result
				40.068 μ W	N/A	N/A



Frequency Stability

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

Description	Manufacturer	Model	ID	Last Cal.	Interval
Variable Transformer	Powerstat	246	XFR	NCR	0
Multimeter	Fluke	117	MNN	2/3/2012	24
Humidity Temperature Meter	Omega Engineering, Inc.	HH31	DUB	10/25/2011	36
Temp./Humidity Chamber	Cincinnati Sub Zero (CSZ)	ZPH-32-3.5-SCT/AC	TBF	NCR	0
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/12/2013	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/5/2012	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	5/15/2012	24

TEST DESCRIPTION

Variation of Supply Voltage

The primary supply voltage was varied using a variable transformer over the range of $\pm 15\%$ (93.5VAC to 126.5VAC).

Variation of Ambient Temperature

Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range ($+0^\circ$ and $+55^\circ$ C) and at 10° C intervals.

The Frequency Stability was measured using a near-field probe and 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. The near-field probe was placed near the transmitter. A low-loss coaxial cable connected the near-field probe to the spectrum analyzer outside of the chamber.

$\text{ppm} = (\text{Measured Frequency} / \text{Measured Nominal Frequency} - 1) * 1,000,000$

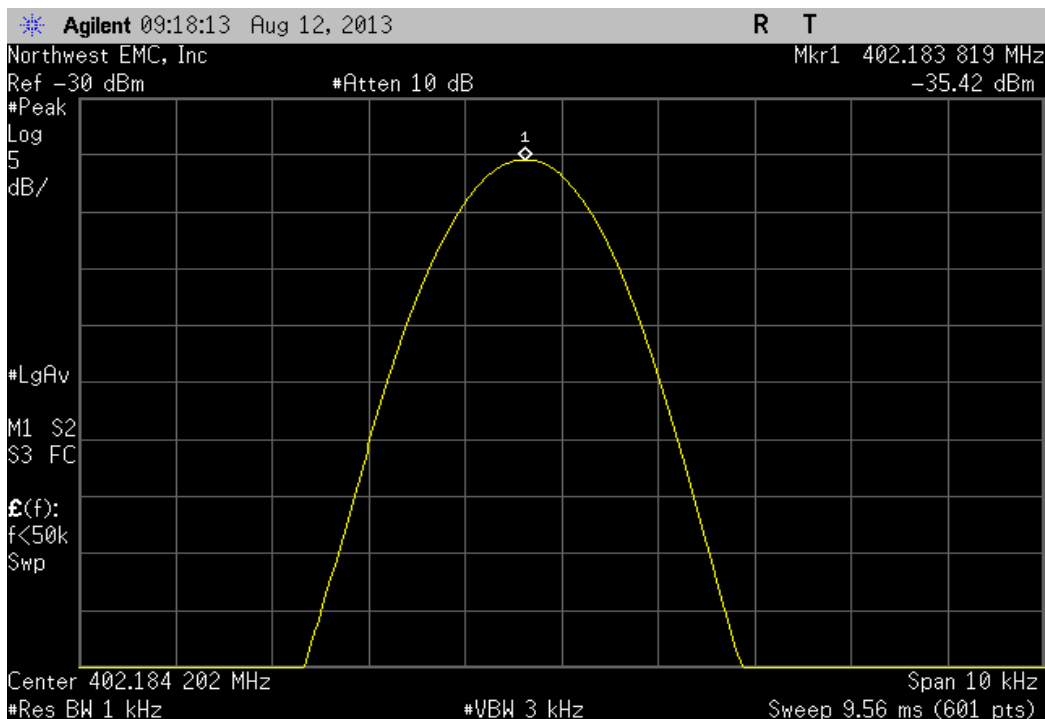


Frequency Stability

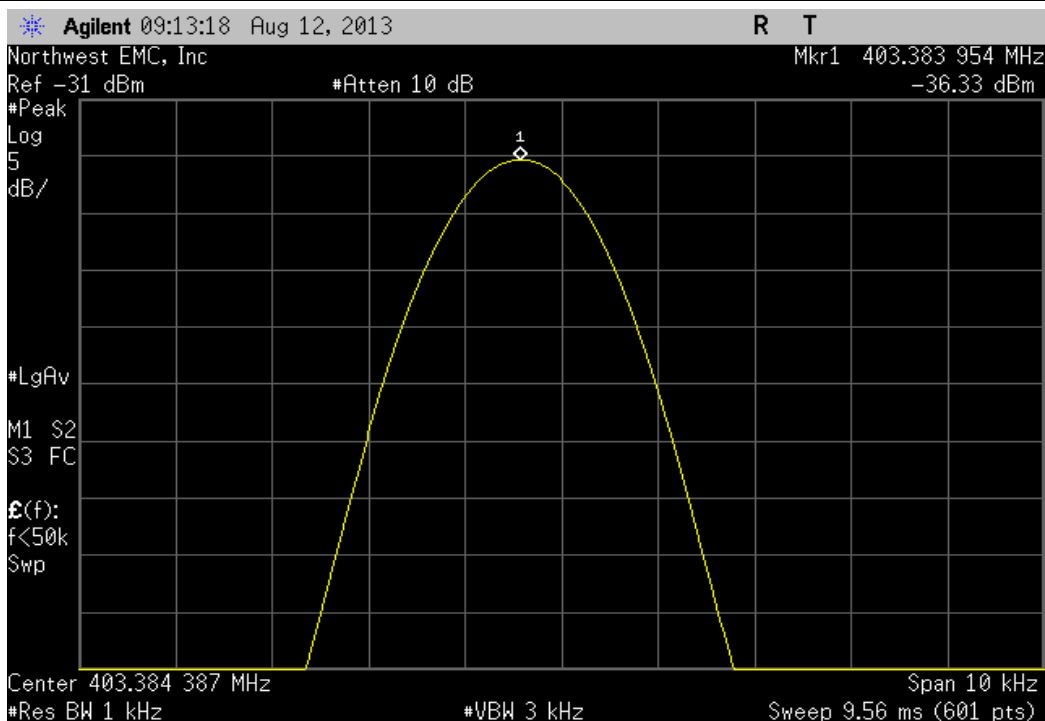
XMit 2013.02.28
PsaTx 2013.07.11

EUT: Model 6290		Work Order: BSTN0429	
Serial Number: 0000621		Date: 08/13/13	
Customer: Boston Scientific Corporation		Temperature: 23.2°C	
Attendees: None		Humidity: 46%	
Project: None		Barometric Pres.: 1022.3	
Tested by: Trevor Buls		Power: 110VAC/60Hz	
		Job Site: MN08	
TEST SPECIFICATIONS		Test Method	
FCC 95i:2013		ANSI/TIA/EIA-603-C-2004	
COMMENTS			
Per Boston Scientific EDVT# 1114584: Mode 2.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	12	Signature <i>Trevor Buls</i>	
		Measured Value (MHz)	Assigned Value (MHz)
		Error (ppm)	Limit (ppm)
			Result
Normal Voltage			
	Low Channel, 402.15 MHz	402.183819	402.15
	Mid Channel, 403.35 MHz	403.383954	403.35
	High Channel, 404.85 MHz	404.883722	404.85
Extreme Voltage +15%			
	Low Channel, 402.15 MHz	402.183819	402.15
	Mid Channel, 403.35 MHz	403.383953	403.35
	High Channel, 404.85 MHz	404.883737	404.85
Extreme Voltage -15%			
	Low Channel, 402.15 MHz	402.183819	402.15
	Mid Channel, 403.35 MHz	403.383954	403.35
	High Channel, 404.85 MHz	404.883722	404.85
Extreme Temperature +55°C			
	Low Channel, 402.15 MHz	402.181248	402.15
	Mid Channel, 403.35 MHz	403.381365	403.35
	High Channel, 404.85 MHz	404.881132	404.85
Extreme Temperature +50°C			
	Low Channel, 402.15 MHz	402.181448	402.15
	Mid Channel, 403.35 MHz	403.381599	403.35
	High Channel, 404.85 MHz	404.881365	404.85
Extreme Temperature +40°C			
	Low Channel, 402.15 MHz	402.182149	402.15
	Mid Channel, 403.35 MHz	403.382284	403.35
	High Channel, 404.85 MHz	404.88205	404.85
Extreme Temperature +30°C			
	Low Channel, 402.15 MHz	402.183401	402.15
	Mid Channel, 403.35 MHz	403.383536	403.35
	High Channel, 404.85 MHz	404.883336	404.85
Extreme Temperature +20°C			
	Low Channel, 402.15 MHz	402.184437	402.15
	Mid Channel, 403.35 MHz	403.384587	403.35
	High Channel, 404.85 MHz	404.884423	404.85
Extreme Temperature +10°C			
	Low Channel, 402.15 MHz	402.185321	402.15
	Mid Channel, 403.35 MHz	403.385472	403.35
	High Channel, 404.85 MHz	404.885291	404.85
Extreme Temperature 0°C			
	Low Channel, 402.15 MHz	402.185822	402.15
	Mid Channel, 403.35 MHz	403.385956	403.35
	High Channel, 404.85 MHz	404.885743	404.85

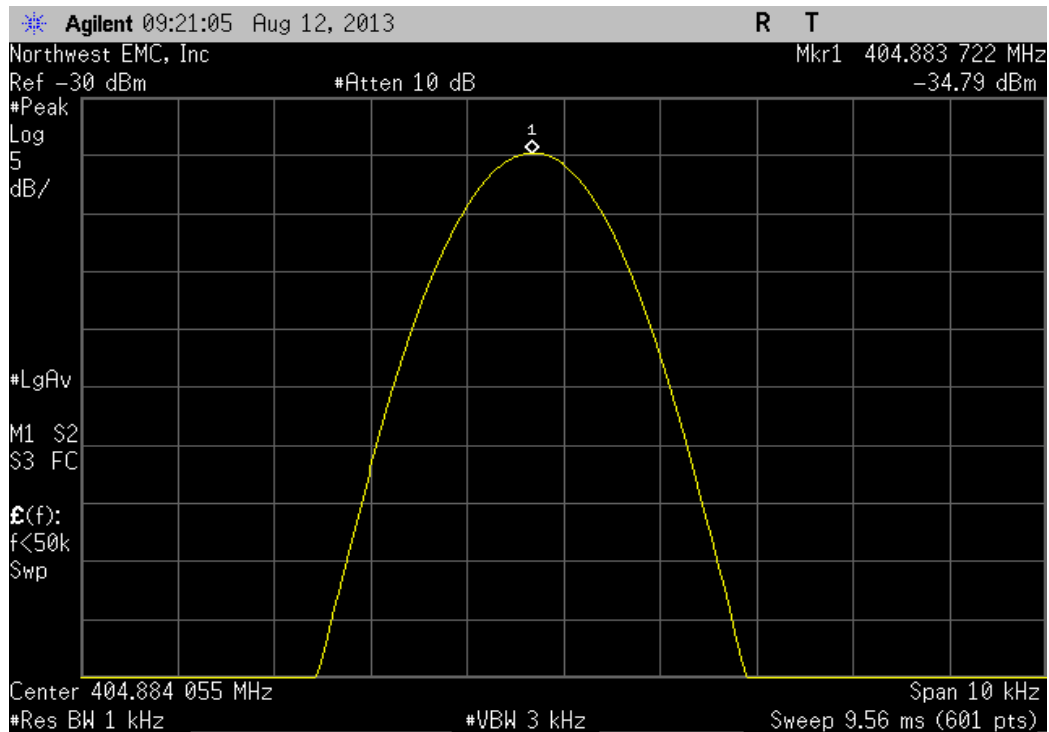
Normal Voltage, Low Channel, 402.15 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	402.183819	402.15	84.1	100	Pass



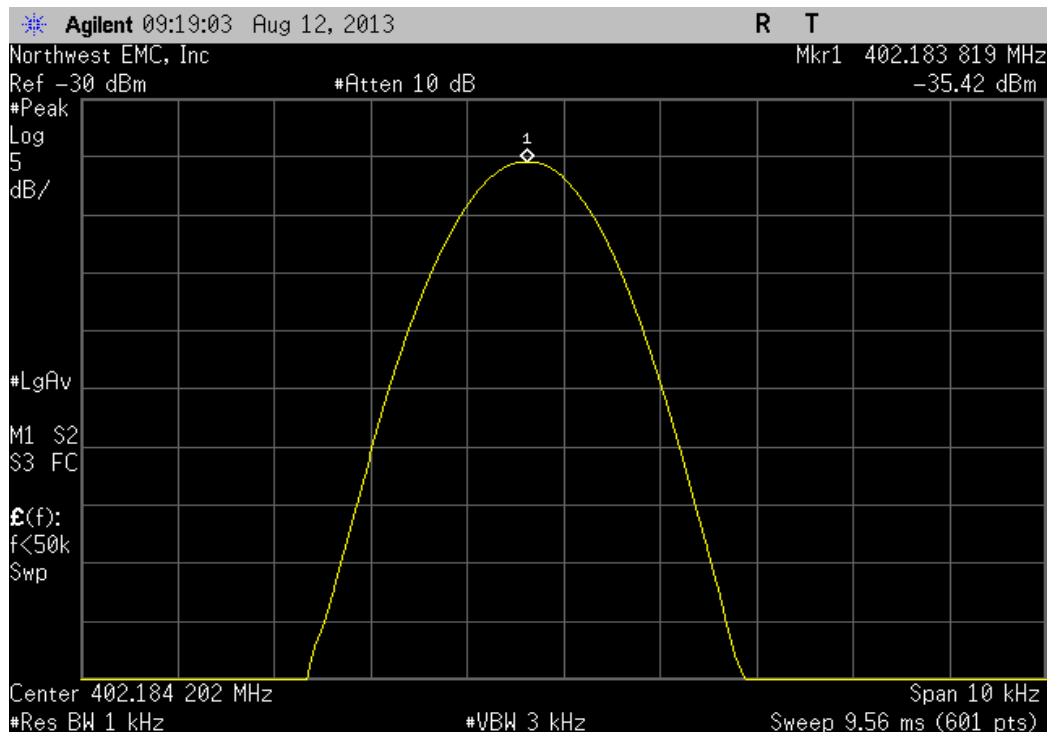
Normal Voltage, Mid Channel, 403.35 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	403.383954	403.35	84.2	100	Pass



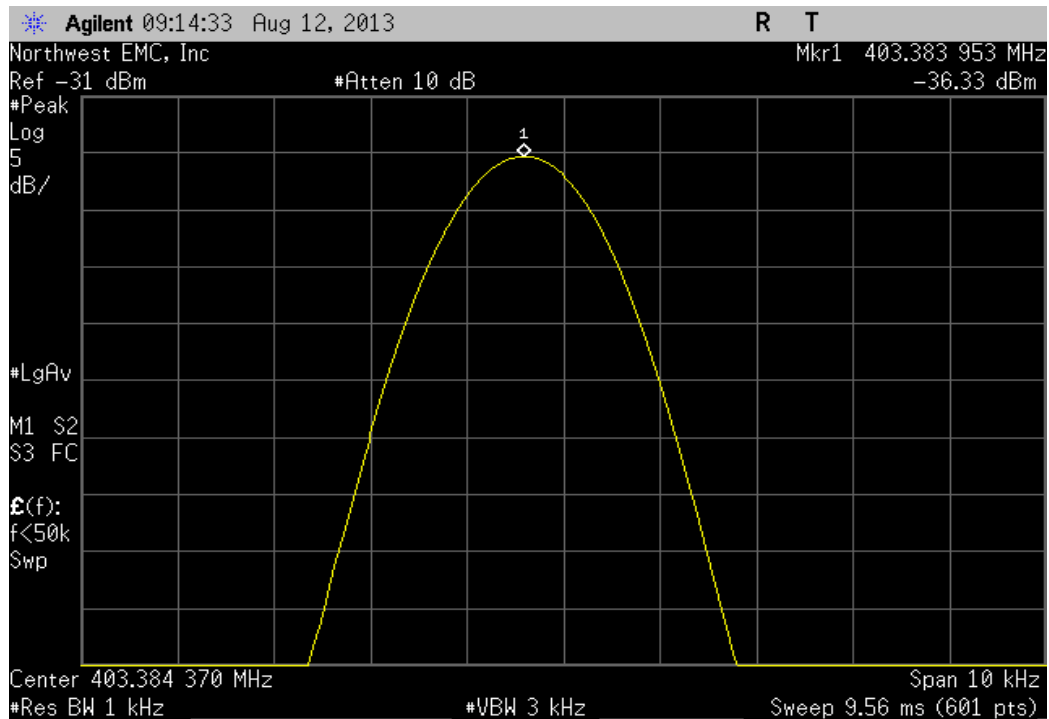
Normal Voltage, High Channel, 404.85 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	404.883722	404.85	83.3	100	Pass



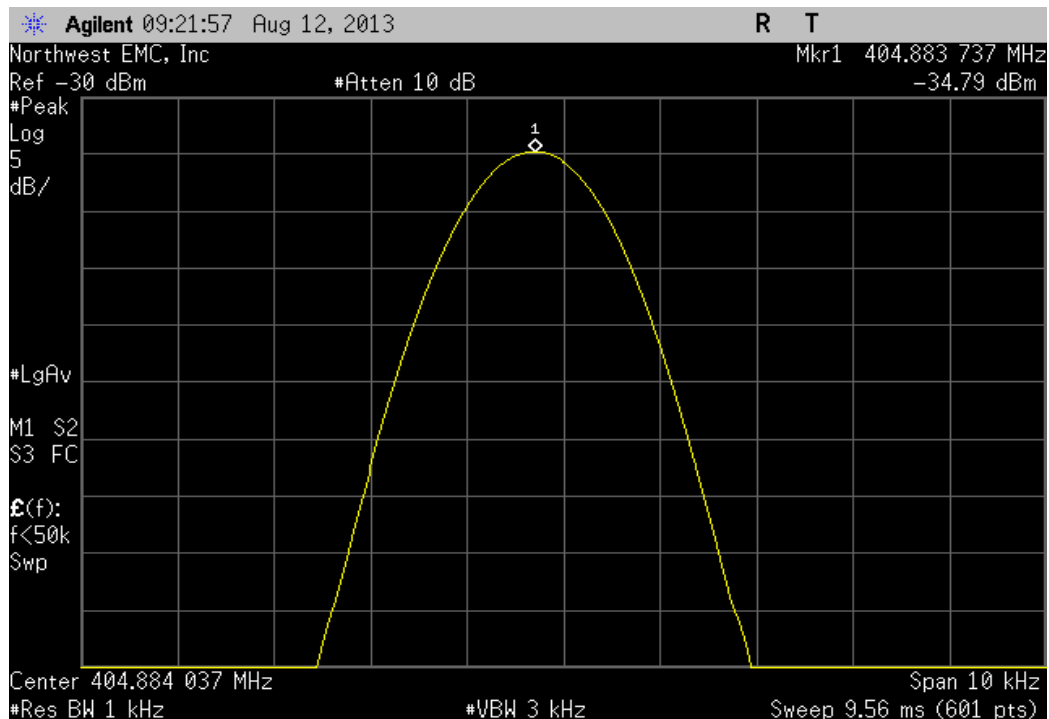
Extreme Voltage +15%, Low Channel, 402.15 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	402.183819	402.15	84.1	100	Pass



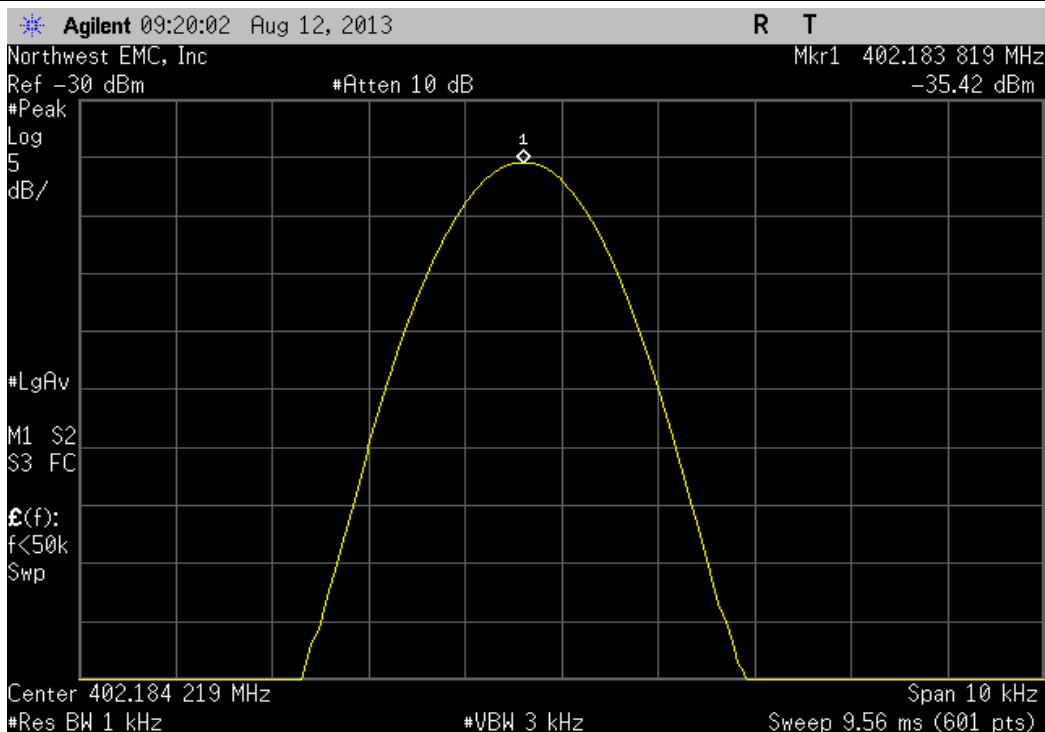
Extreme Voltage +15%, Mid Channel, 403.35 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	403.383953	403.35	84.2	100	Pass



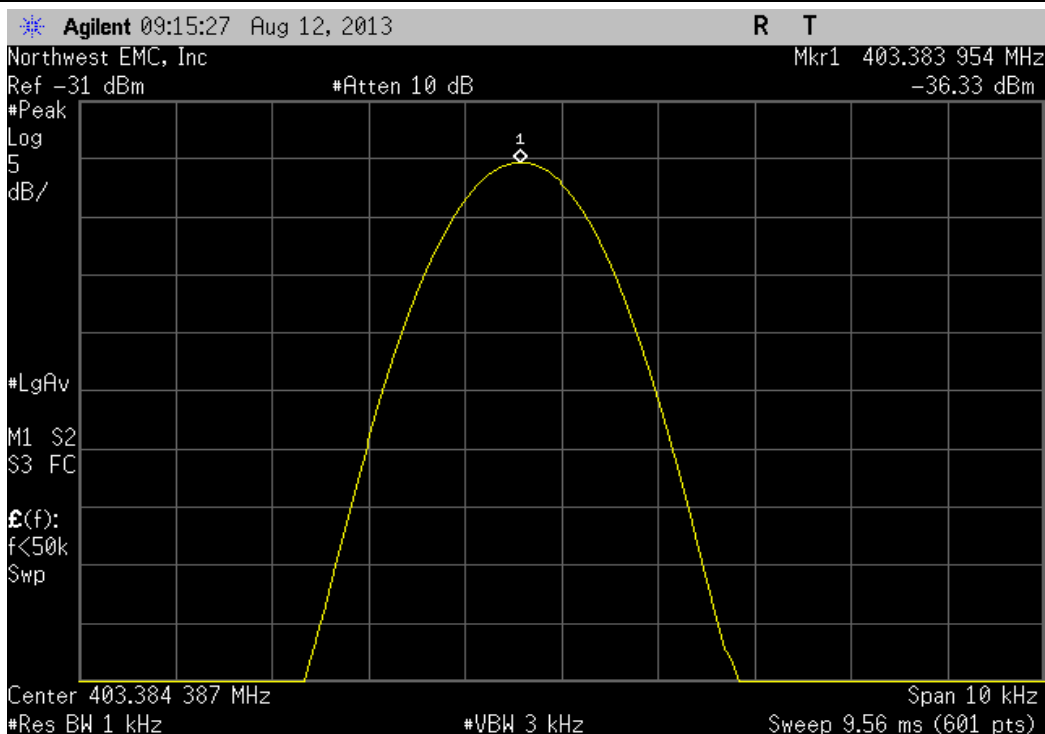
Extreme Voltage +15%, High Channel, 404.85 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	404.883737	404.85	83.3	100	Pass



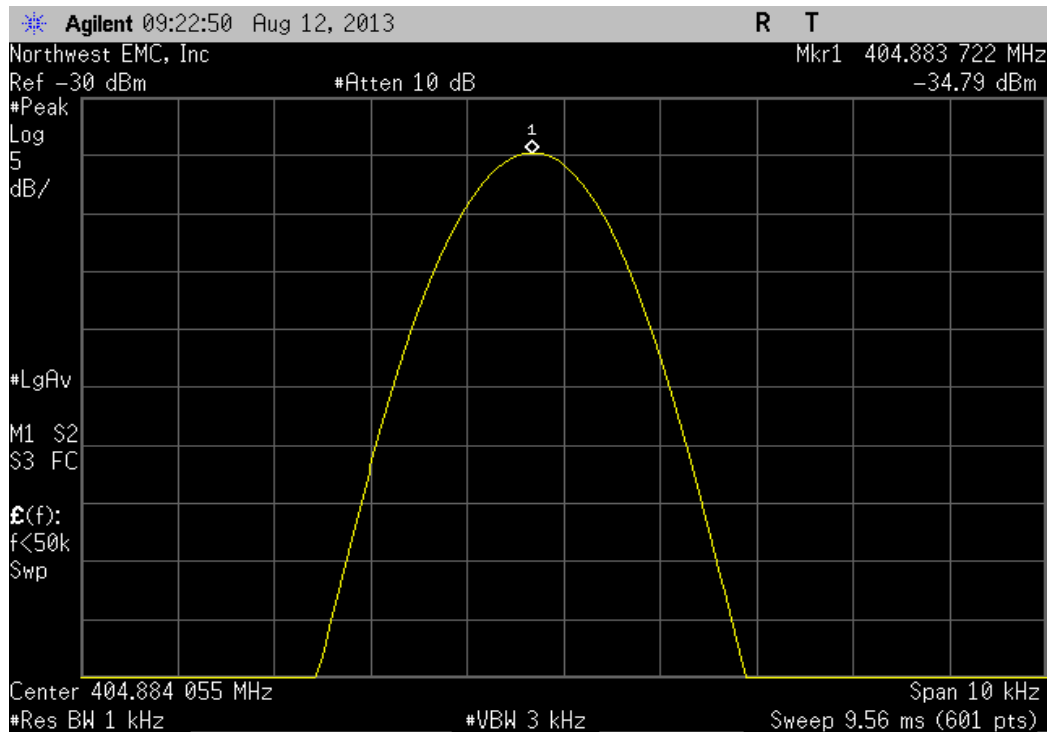
Extreme Voltage -15%, Low Channel, 402.15 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	402.183819	402.15	84.1	100	Pass



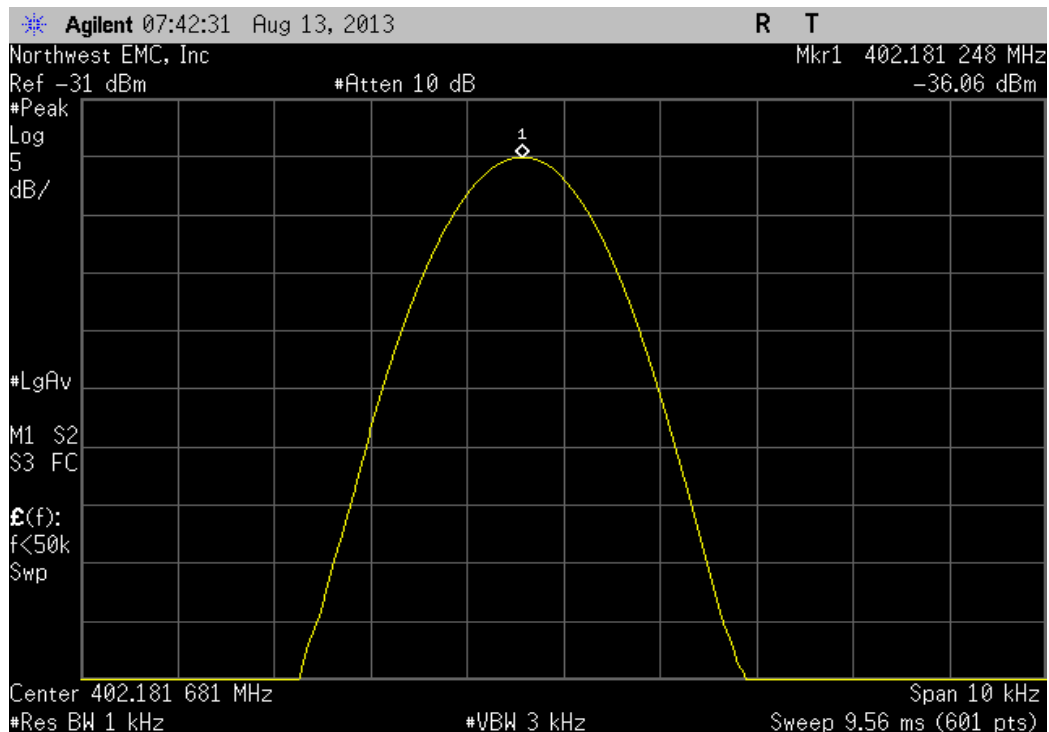
Extreme Voltage -15%, Mid Channel, 403.35 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	403.383954	403.35	84.2	100	Pass



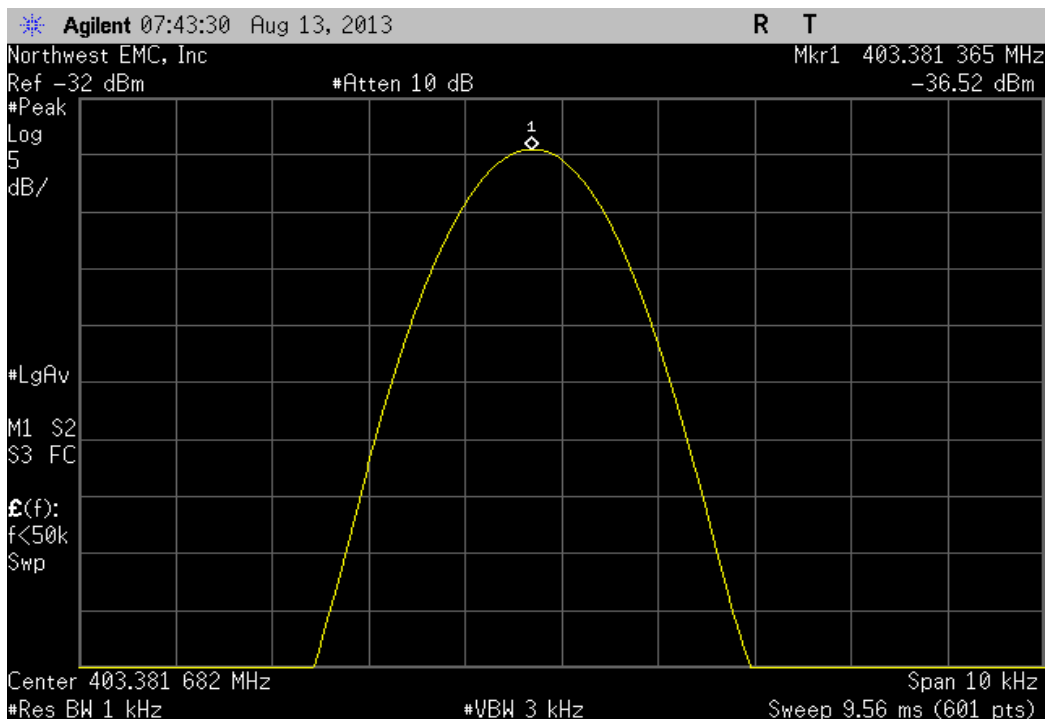
Extreme Voltage -15%, High Channel, 404.85 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	404.883722	404.85	83.3	100	Pass



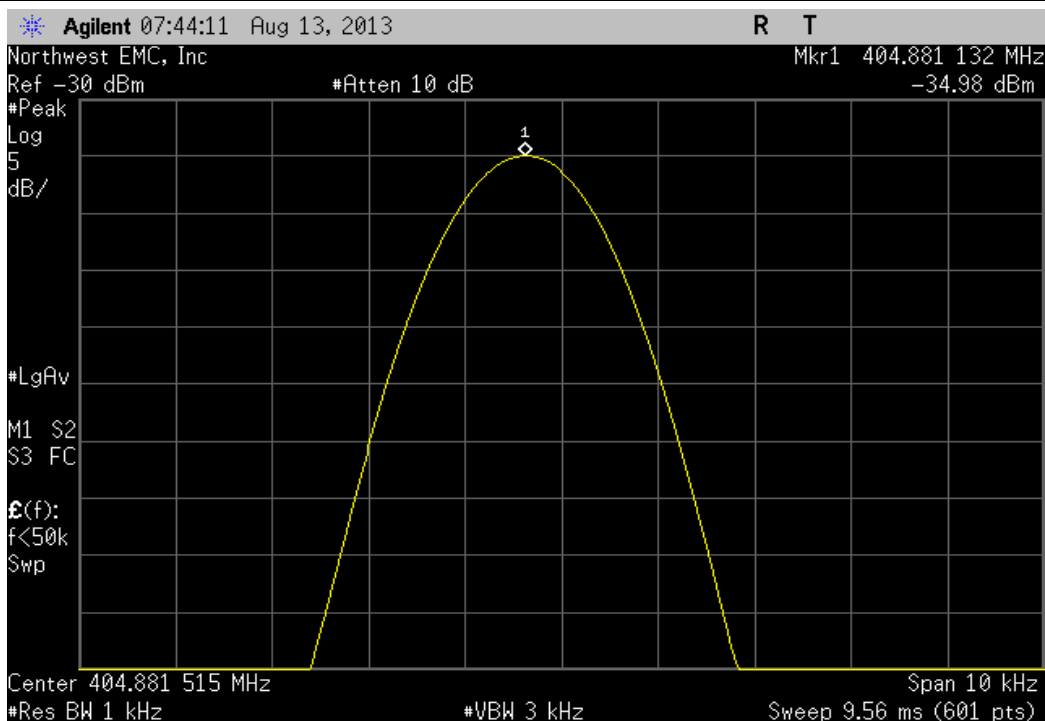
Extreme Temperature +55°C, Low Channel, 402.15 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	402.181248	402.15	77.7	100	Pass



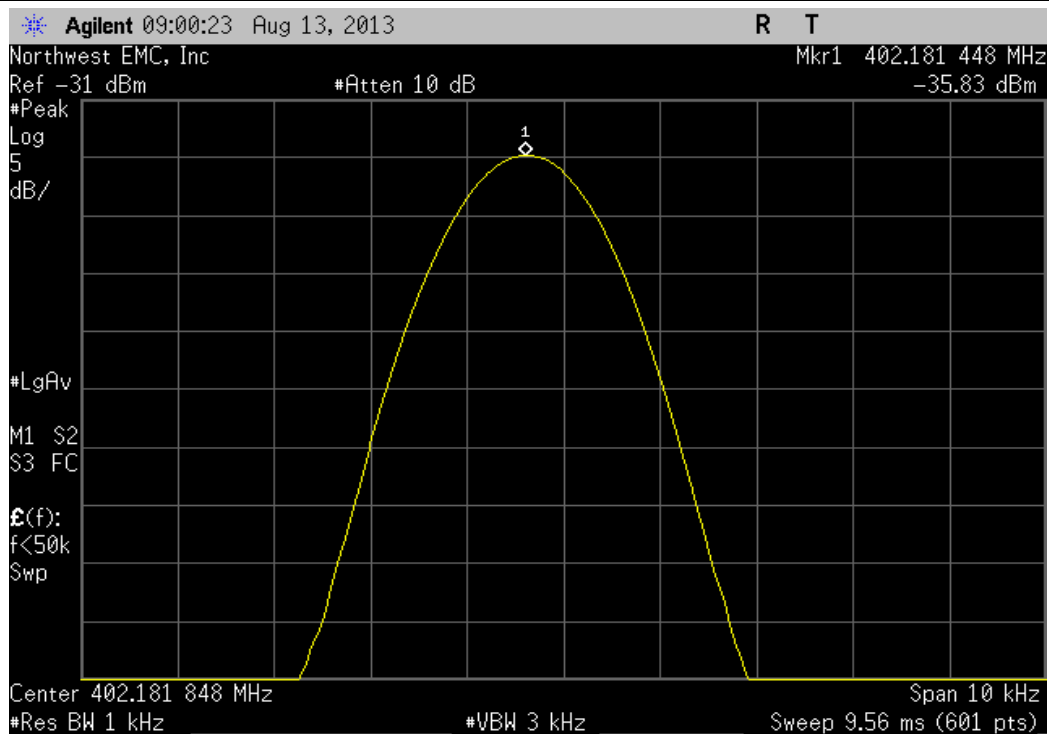
Extreme Temperature +55°C, Mid Channel, 403.35 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	403.381365	403.35	77.8	100	Pass



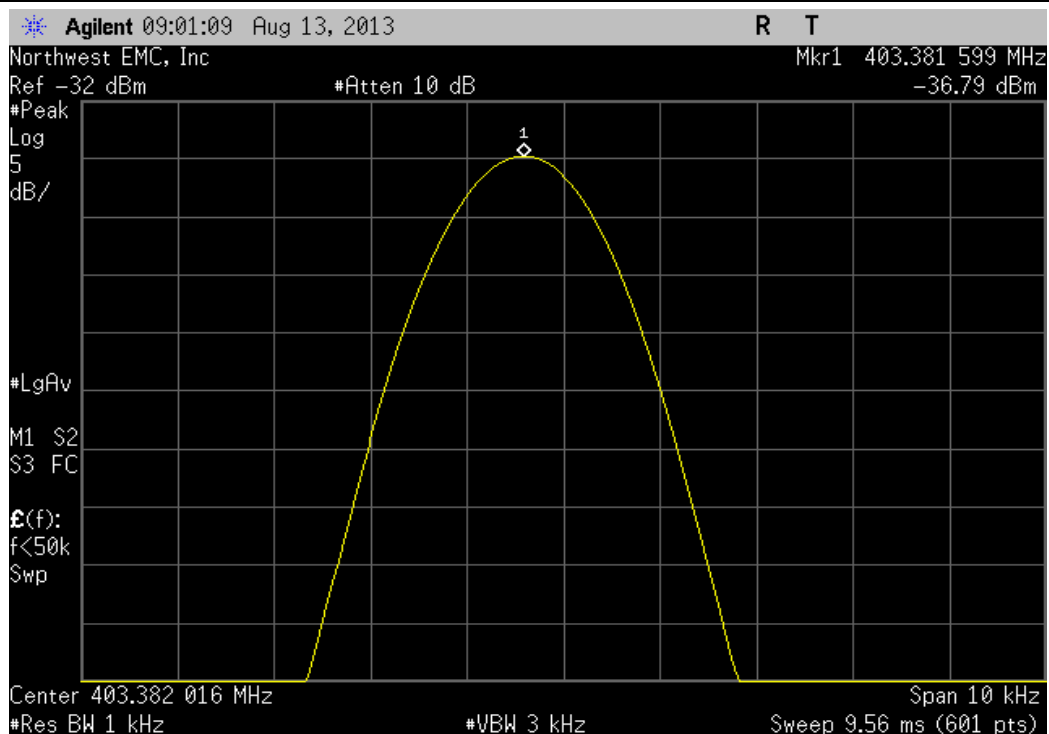
Extreme Temperature +55°C, High Channel, 404.85 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	404.881132	404.85	76.9	100	Pass



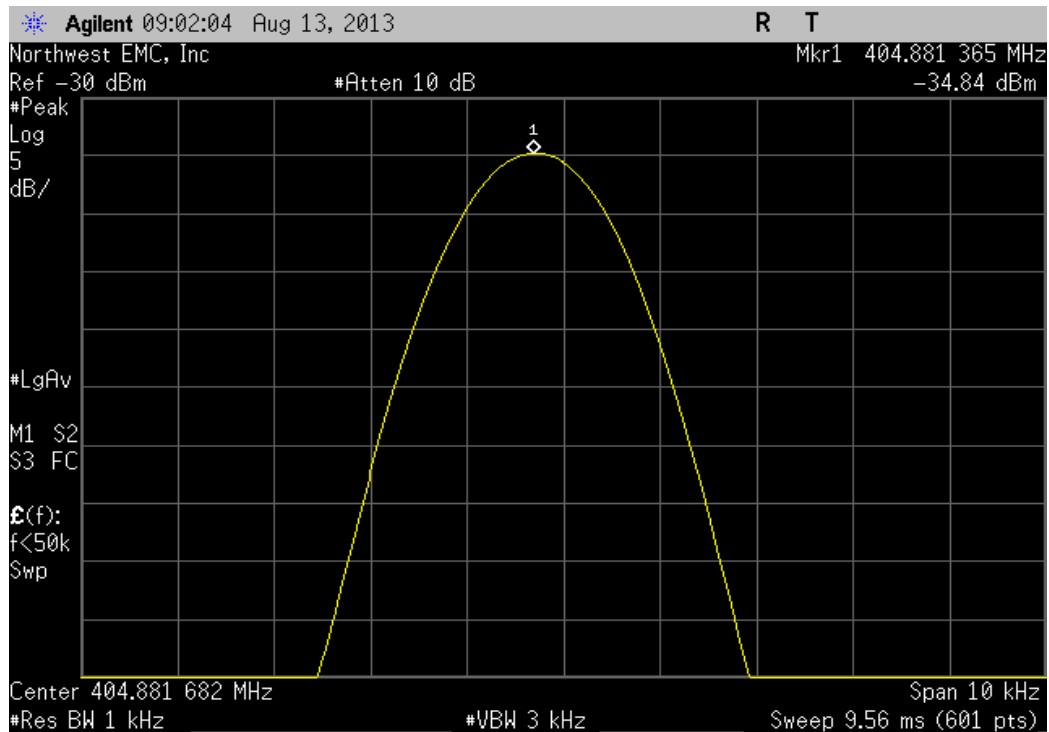
Extreme Temperature +50°C, Low Channel, 402.15 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	402.181448	402.15	78.2	100	Pass	



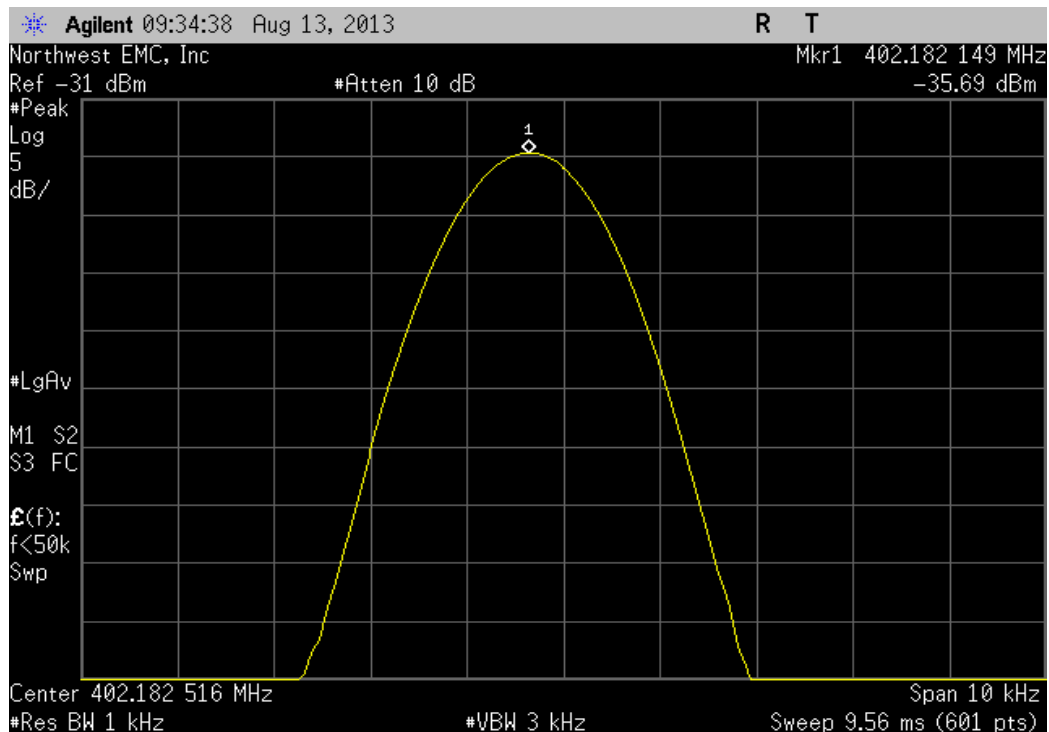
Extreme Temperature +50°C, Mid Channel, 403.35 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	403.381599	403.35	78.3	100	Pass	



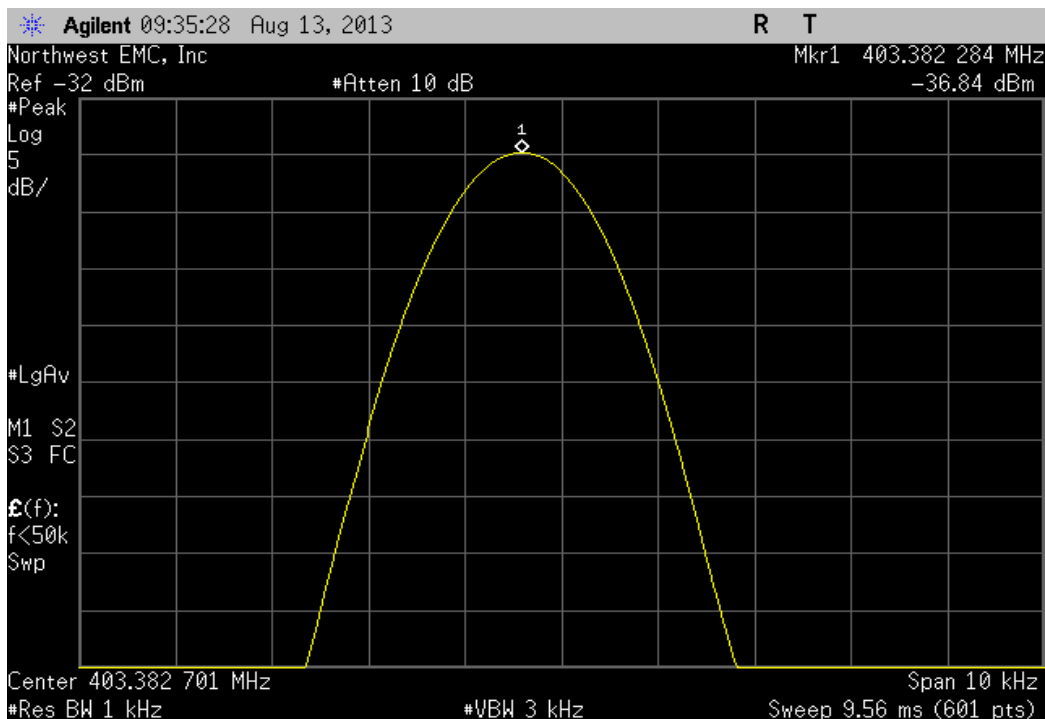
Extreme Temperature +50°C, High Channel, 404.85 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	404.881365	404.85	77.5	100	Pass



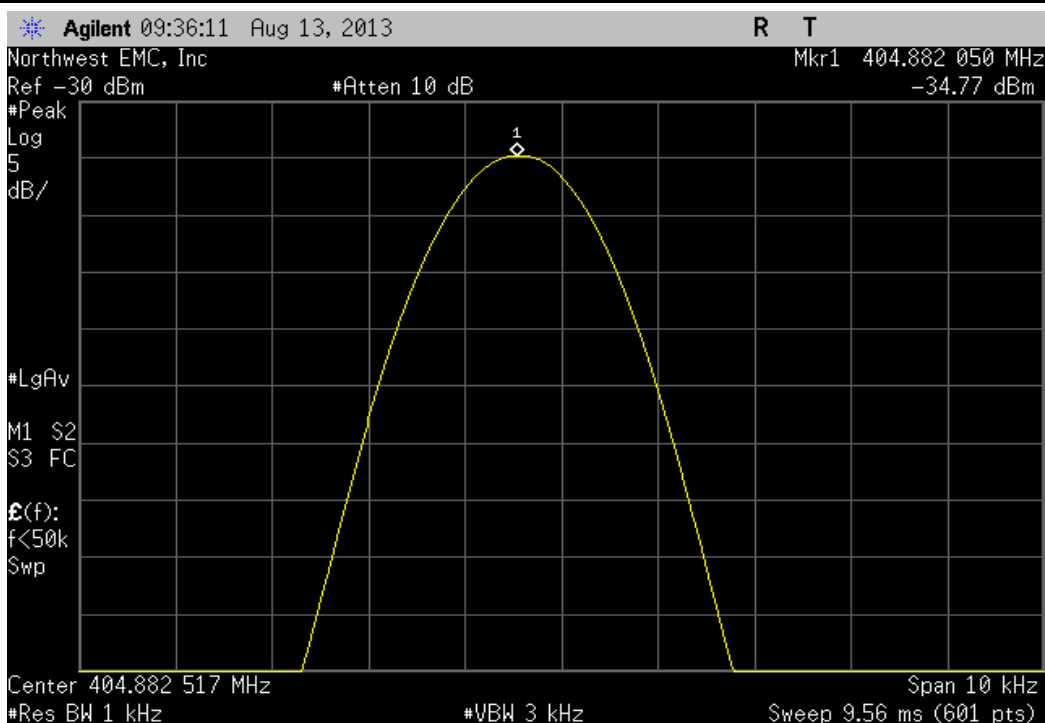
Extreme Temperature +40°C, Low Channel, 402.15 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	402.182149	402.15	79.9	100	Pass



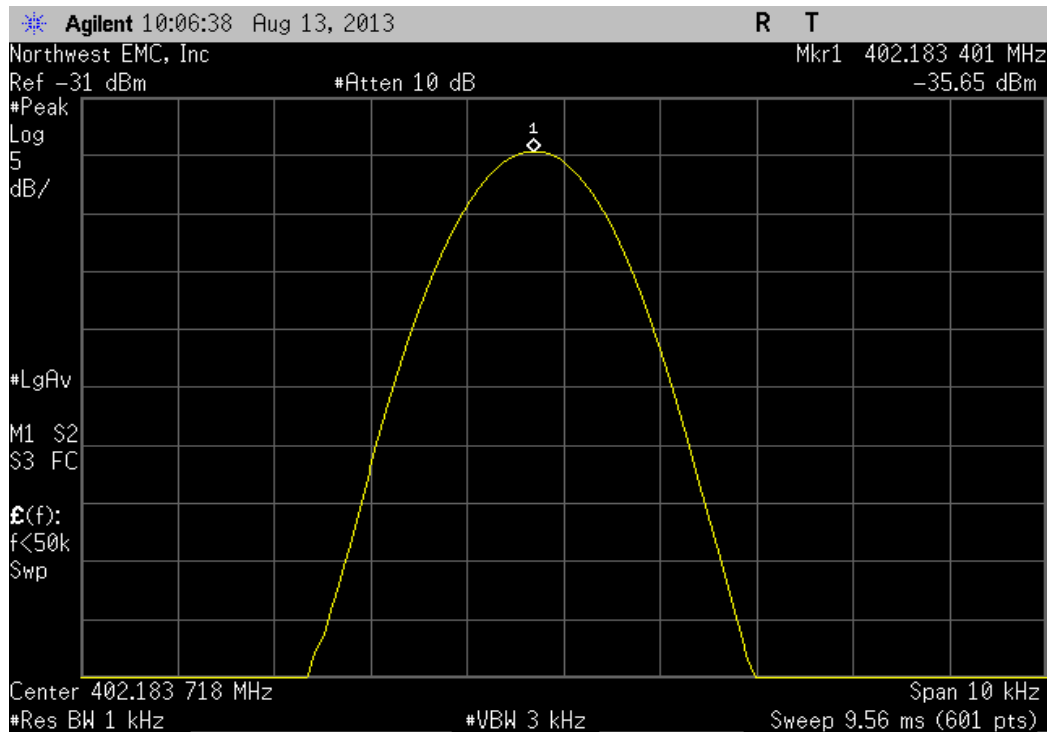
Extreme Temperature +40°C, Mid Channel, 403.35 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	403.382284	403.35	80	100	Pass



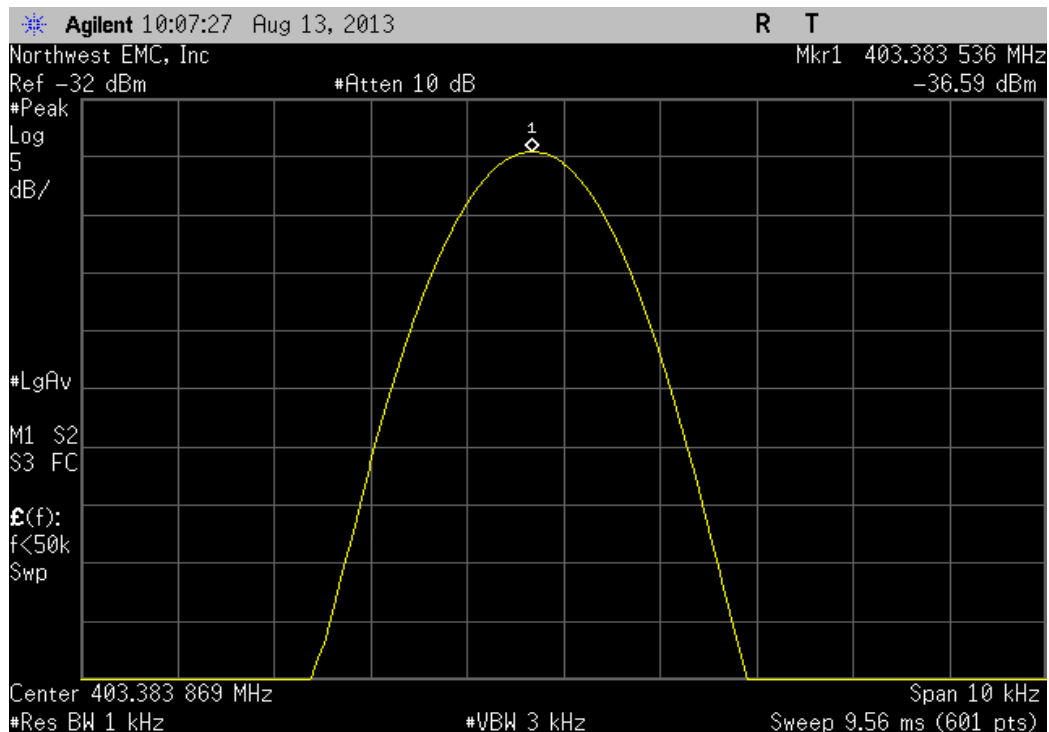
Extreme Temperature +40°C, High Channel, 404.85 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	404.88205	404.85	79.2	100	Pass



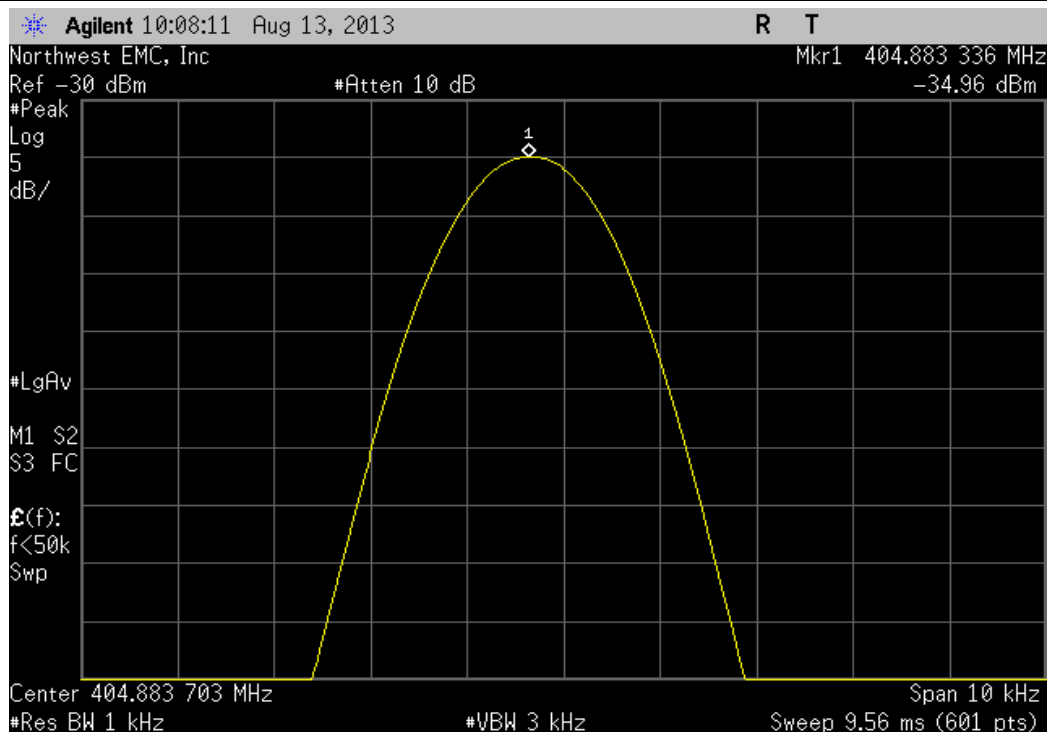
Extreme Temperature +30°C, Low Channel, 402.15 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	402.183401	402.15	83.1	100	Pass	



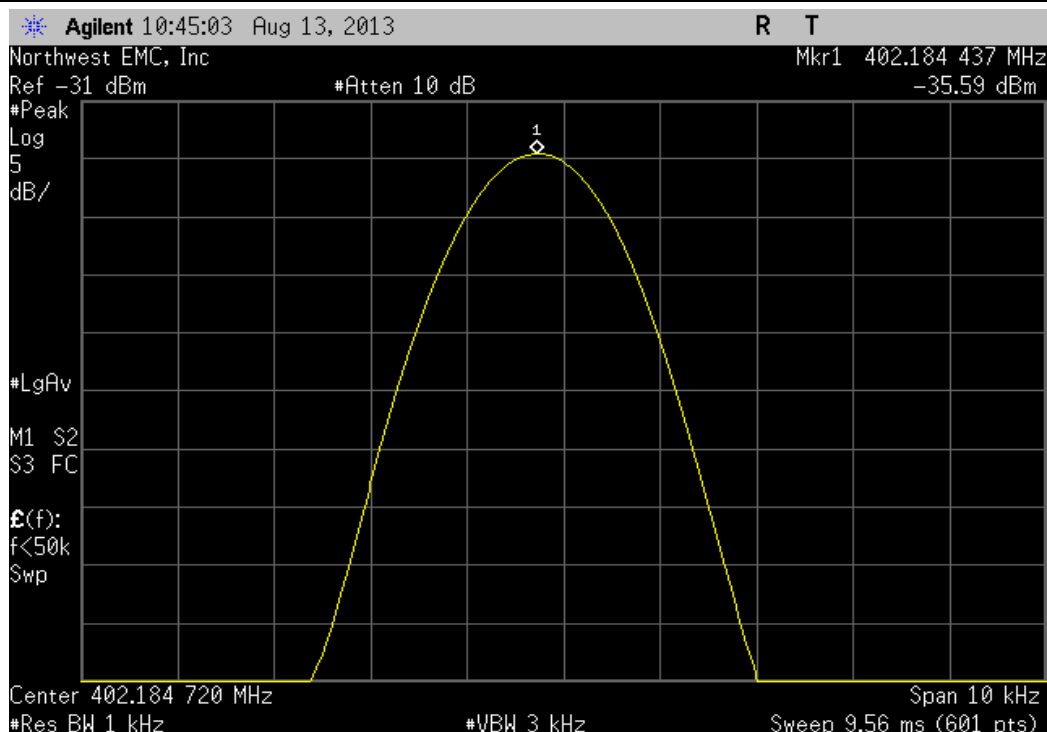
Extreme Temperature +30°C, Mid Channel, 403.35 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	403.383536	403.35	83.1	100	Pass	



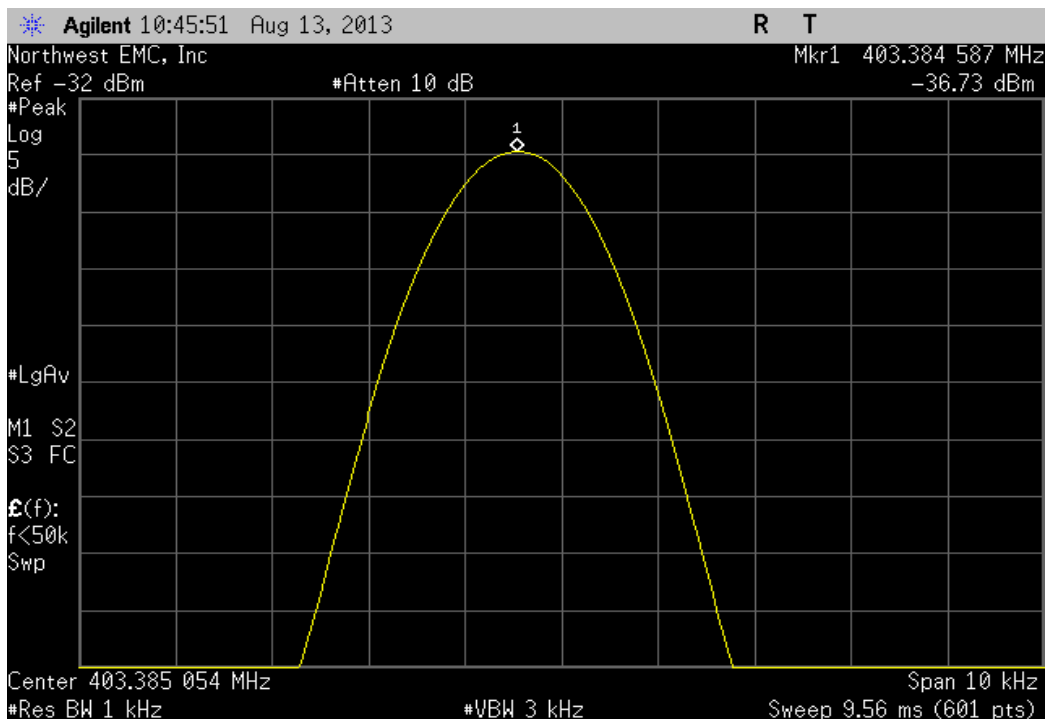
Extreme Temperature +30°C, High Channel, 404.85 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	404.883336	404.85	82.3	100	Pass	



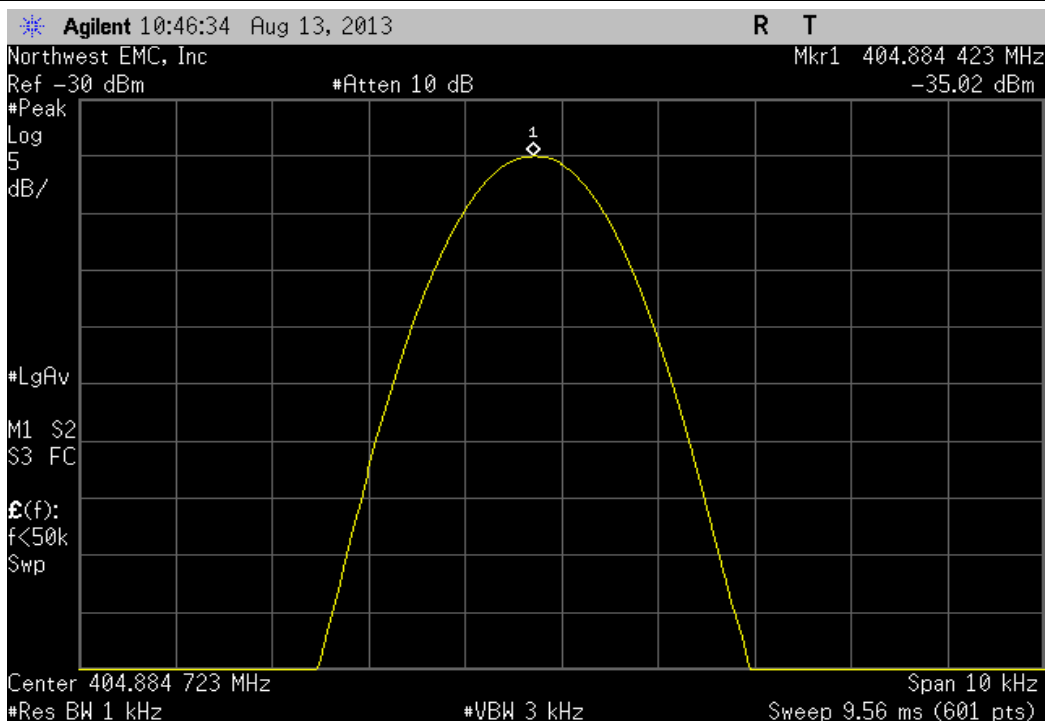
Extreme Temperature +20°C, Low Channel, 402.15 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	402.184437	402.15	85.6	100	Pass	



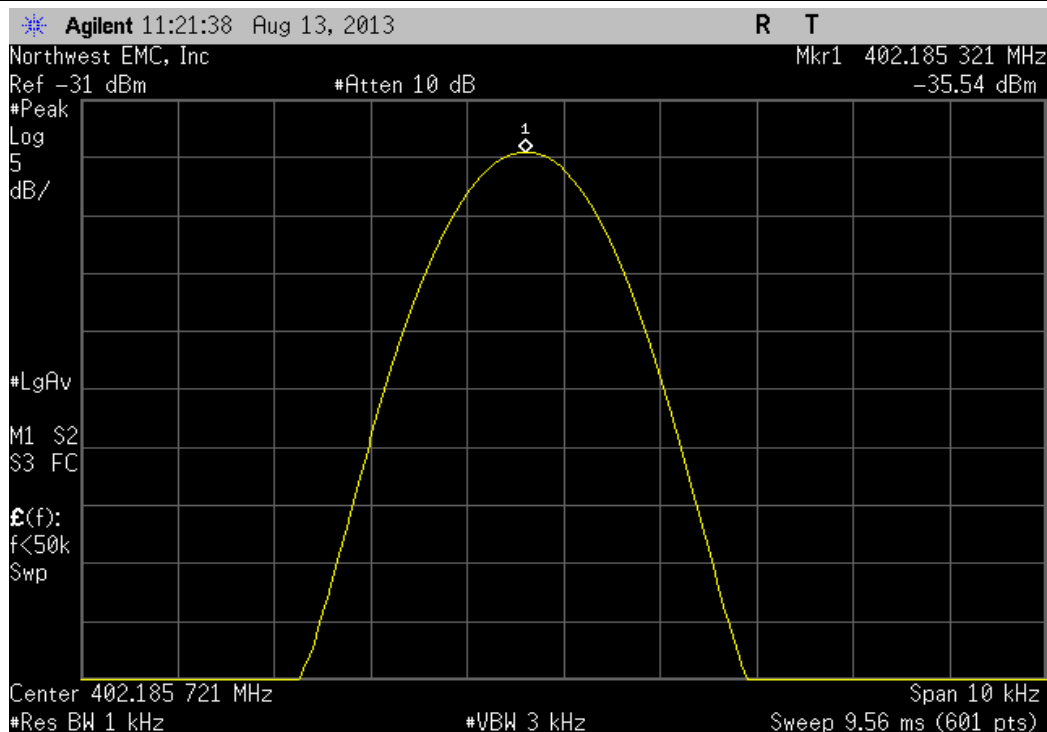
Extreme Temperature +20°C, Mid Channel, 403.35 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	403.384587	403.35	85.8	100	Pass



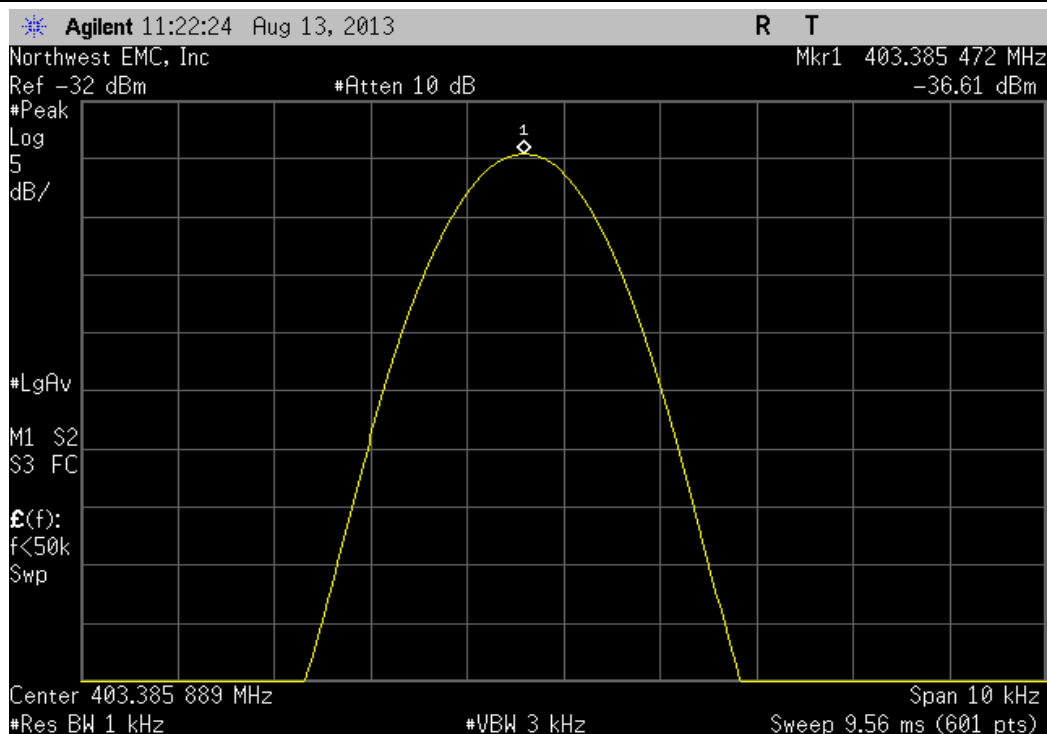
Extreme Temperature +20°C, High Channel, 404.85 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	404.884423	404.85	85	100	Pass



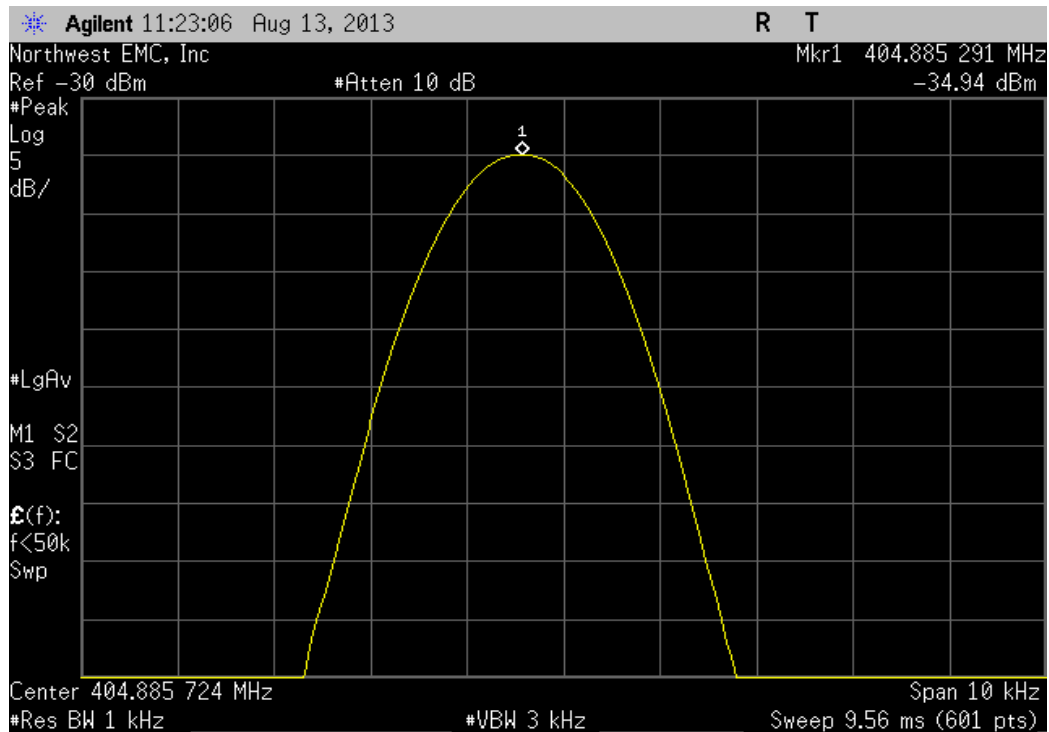
Extreme Temperature +10°C, Low Channel, 402.15 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	402.185321	402.15	87.8	100	Pass



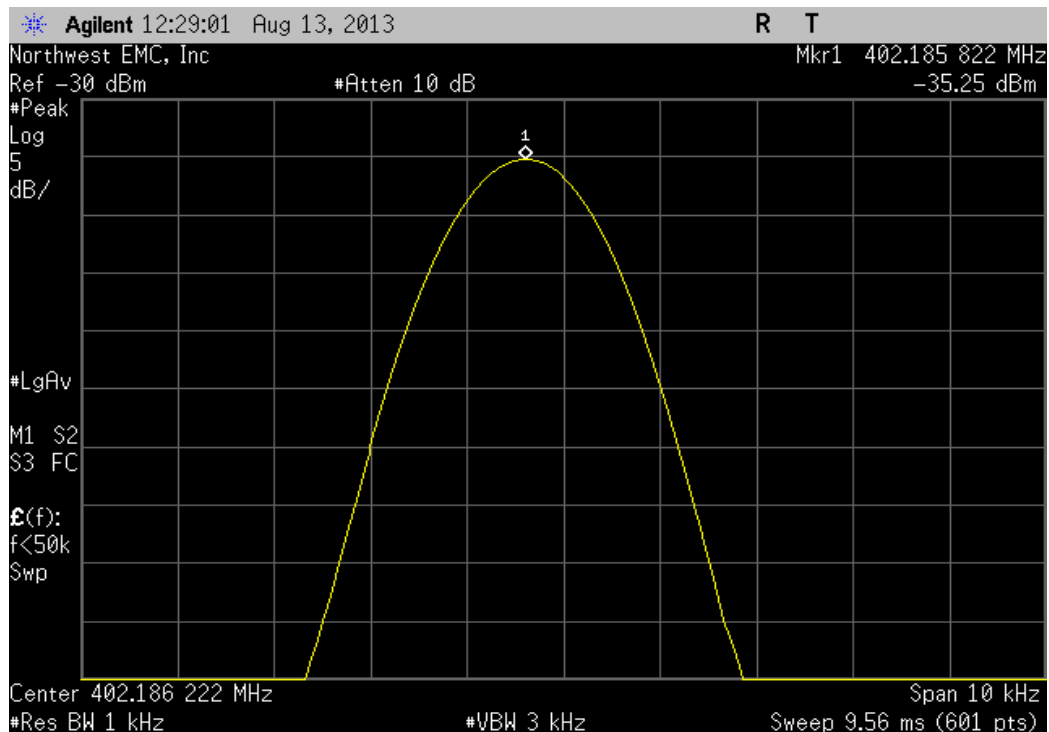
Extreme Temperature +10°C, Mid Channel, 403.35 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	403.385472	403.35	87.9	100	Pass



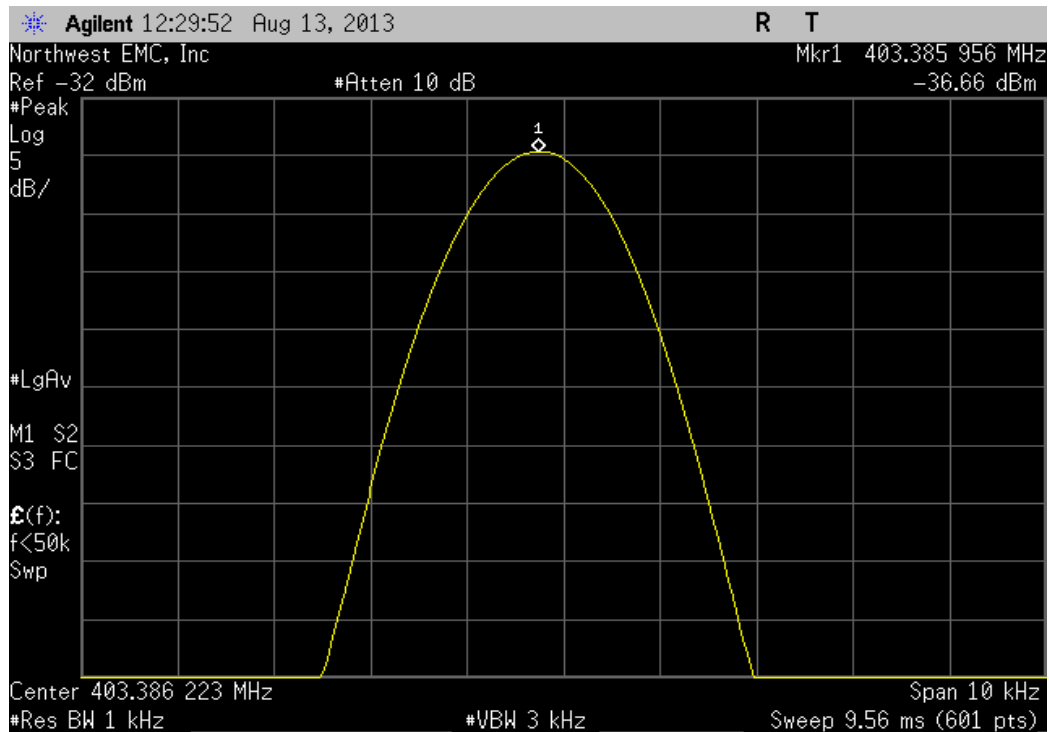
Extreme Temperature +10°C, High Channel, 404.85 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	404.885291	404.85	87.2	100	Pass



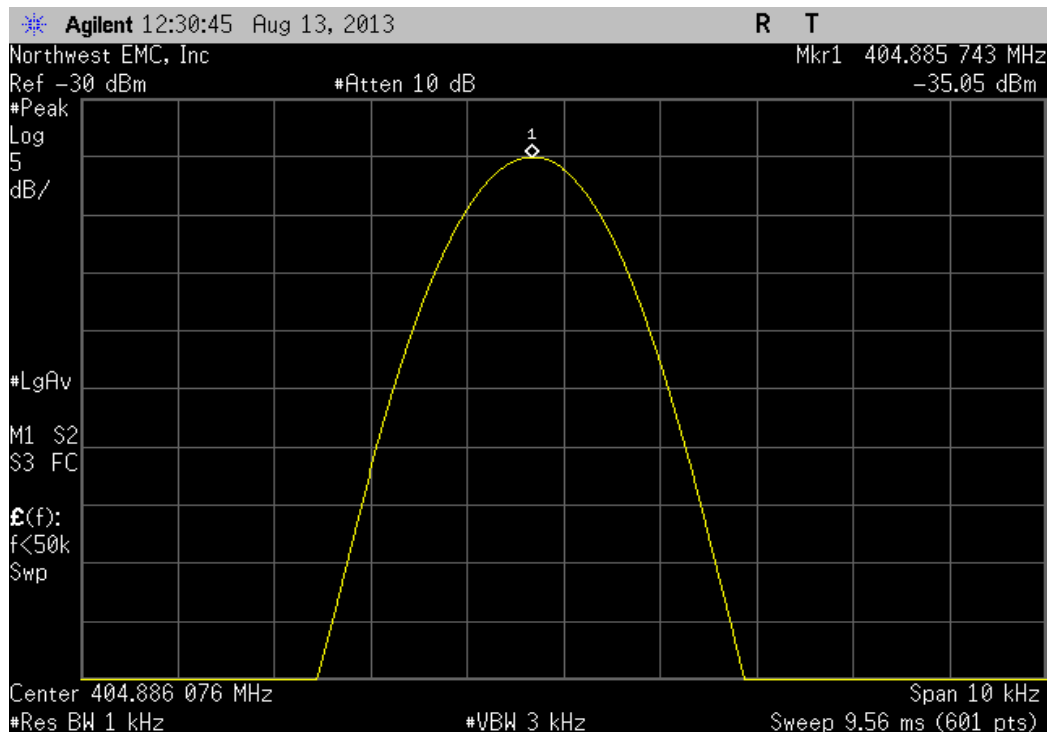
Extreme Temperature 0°C, Low Channel, 402.15 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	402.185822	402.15	89.1	100	Pass



Extreme Temperature 0°C, Mid Channel, 403.35 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	403.385956	403.35	89.1	100	Pass



Extreme Temperature 0°C, High Channel, 404.85 MHz					
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
	404.885743	404.85	88.3	100	Pass



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

Per Boston Scientific EDVT# 1114584: Mode 2. Transmitting, modulated, low channel: 402.15 MHz, mid channel: 403.35 MHz, high channel: 404.85 MHz

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

BSTN0429 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	5 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
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	5/20/2013	12 mo
MN05 Cables	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	8/12/2013	12 mo
Antenna, Horn (DRG)	ETS Lindgren	3115	AIP	6/29/2011	36 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	5/20/2013	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	5/20/2013	12 mo
Antenna, Bilog	Teseq	CBL 6141B	AYD	12/17/2012	12 mo
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	24 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (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 for low, mid, and high band transmit frequencies. 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.



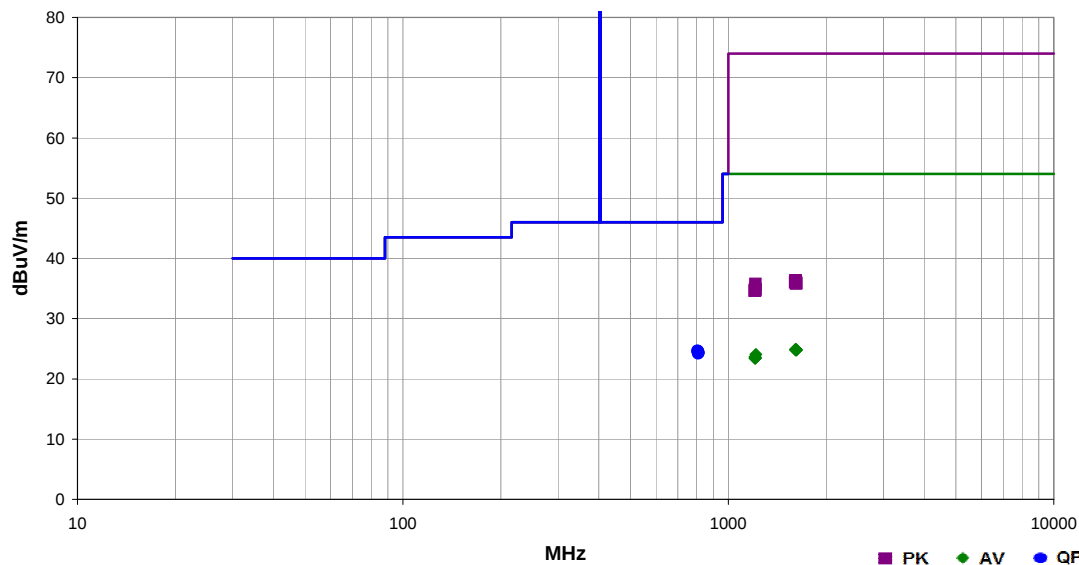
Spurious Radiated Emissions

PSA-ESCI 2012.12.14
EmiR5 2013.08.07

Work Order:	BSTN0429	Date:	08/15/13	<i>Trevor Buls</i>
Project:	None	Temperature:	23.4 °C	
Job Site:	MN05	Humidity:	44% RH	
Serial Number:	0000626	Barometric Pres.:	1020 mbar	
EUT:	Model 6290			Tested by: Trevor Buls
Configuration:	3			
Customer:	Boston Scientific Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Per Boston Scientific EDVT# 1114584: Mode 2. Transmitting, modulated, low channel: 402.15 MHz, mid channel: 403.35 MHz, high channel: 404.85 MHz			
Deviations:	None			
Comments:	Manufacturer states that device will only be operated in horizontal position.			

Test Specifications	Test Method
FCC 951:2013	ANSI/TIA/EIA-603-C:2004

Run #	24	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)	Comments
805.465	16.5	8.2	1.0	125.0	3.0	0.0	Horz	QP	0.0	24.7	46.0	-21.3	EUT Horizontal, Low Ch
805.990	16.5	8.1	4.0	357.0	3.0	0.0	Vert	QP	0.0	24.6	46.0	-21.4	EUT Horizontal, Low Ch
806.690	16.5	8.0	1.0	97.0	3.0	0.0	Horz	QP	0.0	24.5	46.0	-21.5	EUT Horizontal, Mid Ch
809.780	16.7	7.6	1.0	217.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7	EUT Horizontal, High Ch
808.258	16.5	7.8	1.0	285.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT Horizontal, Mid Ch
809.158	16.5	7.7	3.3	53.0	3.0	0.0	Vert	QP	0.0	24.2	46.0	-21.8	EUT Horizontal, High Ch
1608.425	29.9	-5.0	1.0	16.0	3.0	0.0	Horz	AV	0.0	24.9	54.0	-29.1	EUT Horizontal, Low Ch
1619.317	29.8	-5.0	1.0	360.0	3.0	0.0	Horz	AV	0.0	24.8	54.0	-29.2	EUT Horizontal, High Ch
1617.467	29.8	-5.0	1.0	277.0	3.0	0.0	Vert	AV	0.0	24.8	54.0	-29.2	EUT Horizontal, High Ch
1615.750	29.8	-5.0	1.0	104.0	3.0	0.0	Vert	AV	0.0	24.8	54.0	-29.2	EUT Horizontal, Mid Ch
1611.942	29.8	-5.0	1.0	236.0	3.0	0.0	Horz	AV	0.0	24.8	54.0	-29.2	EUT Horizontal, Mid Ch
1610.308	29.8	-5.0	1.0	179.0	3.0	0.0	Vert	AV	0.0	24.8	54.0	-29.2	EUT Horizontal, Low Ch
1214.550	30.7	-6.6	1.0	127.0	3.0	0.0	Vert	AV	0.0	24.1	54.0	-29.9	EUT Horizontal, High Ch
1206.592	30.3	-6.7	3.8	147.0	3.0	0.0	Vert	AV	0.0	23.6	54.0	-30.4	EUT Horizontal, Low Ch
1209.717	30.2	-6.7	3.5	57.0	3.0	0.0	Horz	AV	0.0	23.5	54.0	-30.5	EUT Horizontal, Mid Ch
1212.483	30.1	-6.6	3.8	216.0	3.0	0.0	Horz	AV	0.0	23.5	54.0	-30.5	EUT Horizontal, High Ch
1210.217	30.1	-6.7	1.0	265.0	3.0	0.0	Vert	AV	0.0	23.4	54.0	-30.6	EUT Horizontal, Mid Ch
1206.725	30.1	-6.7	1.0	125.0	3.0	0.0	Horz	AV	0.0	23.4	54.0	-30.6	EUT Horizontal, Low Ch
1611.625	41.3	-5.0	1.0	104.0	3.0	0.0	Vert	PK	0.0	36.3	74.0	-37.7	EUT Horizontal, Low Ch
1609.683	41.3	-5.0	1.0	16.0	3.0	0.0	Horz	PK	0.0	36.3	74.0	-37.7	EUT Horizontal, Low Ch
1611.442	41.2	-5.0	1.0	236.0	3.0	0.0	Horz	PK	0.0	36.2	74.0	-37.8	EUT Horizontal, Mid Ch
1606.533	41.0	-5.0	1.0	179.0	3.0	0.0	Vert	PK	0.0	36.0	74.0	-38.0	EUT Horizontal, Low Ch
1619.292	40.9	-5.0	1.0	360.0	3.0	0.0	Horz	PK	0.0	35.9	74.0	-38.1	EUT Horizontal, High Ch
1617.558	40.8	-5.0	1.0	277.0	3.0	0.0	Vert	PK	0.0	35.8	74.0	-38.2	EUT Horizontal, High Ch
1212.942	42.4	-6.6	1.0	127.0	3.0	0.0	Vert	PK	0.0	35.8	74.0	-38.2	EUT Horizontal, High Ch
1209.500	41.6	-6.7	3.5	57.0	3.0	0.0	Horz	PK	0.0	34.9	74.0	-39.1	EUT Horizontal, Mid Ch
1211.200	41.5	-6.6	1.0	265.0	3.0	0.0	Vert	PK	0.0	34.9	74.0	-39.1	EUT Horizontal, Mid Ch
1212.750	41.3	-6.6	3.8	216.0	3.0	0.0	Horz	PK	0.0	34.7	74.0	-39.3	EUT Horizontal, High Ch
1207.450	41.3	-6.7	1.0	125.0	3.0	0.0	Horz	PK	0.0	34.6	74.0	-39.4	EUT Horizontal, Low Ch
1206.650	41.3	-6.7	3.8	147.0	3.0	0.0	Vert	PK	0.0	34.6	74.0	-39.4	EUT Horizontal, Low Ch

Receiver Spurious 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

Per Boston Scientific EDVT# 1114584: Mode 3. Receiving, low channel: 402.15 MHz, mid channel: 403.35 MHz, high channel: 404.85 MHz

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

BSTN0429 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	5 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
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	5/20/2013	12 mo
MN05 Cables	ESM Cable Corp.	Double Ridge Guide Horn Cabl	MNI	8/12/2013	12 mo
Antenna, Horn (DRG)	ETS Lindgren	3115	AIP	6/29/2011	36 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	5/20/2013	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	5/20/2013	12 mo
Antenna, Bilog	Teseq	CBL 6141B	AYD	12/17/2012	12 mo
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	24 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (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 for low, mid, and high band receive frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. 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 C63.4). A preamp was used for this test in order to provide sufficient measurement sensitivity.

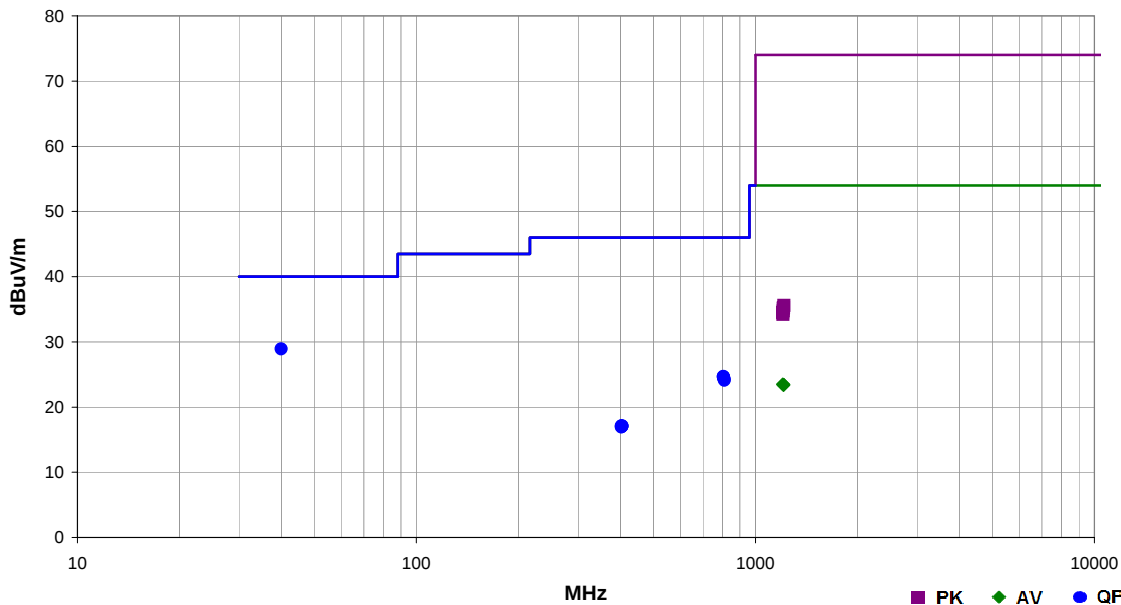


Receiver Spurious Emissions

Work Order:	BSTN0429	Date:	08/15/13	<i>Trevor Buls</i>
Project:	None	Temperature:	23.4 °C	
Job Site:	MN05	Humidity:	44% RH	
Serial Number:	0000626	Barometric Pres.:	1020 mbar	
EUT:		Model 6290		
Configuration:	3			
Customer:	Boston Scientific Corporation			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Per Boston Scientific EDVT# 1114584: Mode 3. Receiving, low channel: 402.15 MHz, mid channel: 403.35 MHz, high channel: 404.85 MHz			
Deviations:	None			
Comments:	Manufacturer states that device will only be operated in horizontal position.			

Test Specifications	Class B	Test Method
FCC 15.109:2013		ANSI C63.4:2009

Run #	27	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)	Comments
39.920	28.6	0.3	1.1	6.0	3.0	0.0	Vert	QP	0.0	28.9	40.0	-11.1	EUT Horizontal, Low Ch
804.715	16.5	8.2	1.0	125.0	3.0	0.0	Horz	QP	0.0	24.7	46.0	-21.3	EUT Horizontal, Low Ch
805.683	16.5	8.1	1.0	359.0	3.0	0.0	Horz	QP	0.0	24.6	46.0	-21.4	EUT Horizontal, Mid Ch
805.887	16.5	8.1	1.0	176.0	3.0	0.0	Vert	QP	0.0	24.6	46.0	-21.4	EUT Horizontal, Low Ch
807.592	16.5	7.9	1.0	68.0	3.0	0.0	Vert	QP	0.0	24.4	46.0	-21.6	EUT Horizontal, Mid Ch
808.298	16.5	7.8	1.0	325.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7	EUT Horizontal, High Ch
810.430	16.5	7.6	1.0	108.0	3.0	0.0	Horz	QP	0.0	24.1	46.0	-21.9	EUT Horizontal, High Ch
403.923	16.5	0.6	1.0	51.0	3.0	0.0	Horz	QP	0.0	17.1	46.0	-28.9	EUT Horizontal, High Ch
402.953	16.5	0.6	1.0	110.0	3.0	0.0	Vert	QP	0.0	17.1	46.0	-28.9	EUT Horizontal, Low Ch
404.047	16.4	0.7	1.0	190.0	3.0	0.0	Horz	QP	0.0	17.1	46.0	-28.9	EUT Horizontal, Mid Ch
403.863	16.4	0.6	3.9	235.0	3.0	0.0	Vert	QP	0.0	17.0	46.0	-29.0	EUT Horizontal, Mid Ch
403.065	16.4	0.6	1.0	360.0	3.0	0.0	Vert	QP	0.0	17.0	46.0	-29.0	EUT Horizontal, High Ch
402.278	16.4	0.5	1.0	335.0	3.0	0.0	Horz	QP	0.0	16.9	46.0	-29.1	EUT Horizontal, Low Ch
1204.033	30.2	-6.7	1.0	46.0	3.0	0.0	Horz	AV	0.0	23.5	54.0	-30.5	EUT Horizontal, Low Ch
1212.450	30.1	-6.6	1.3	294.0	3.0	0.0	Vert	AV	0.0	23.5	54.0	-30.5	EUT Horizontal, High Ch
1208.975	30.1	-6.7	1.0	83.0	3.0	0.0	Horz	AV	0.0	23.4	54.0	-30.6	EUT Horizontal, Mid Ch
1208.792	30.1	-6.7	1.0	301.0	3.0	0.0	Vert	AV	0.0	23.4	54.0	-30.6	EUT Horizontal, Low Ch
1208.008	30.1	-6.7	1.0	264.0	3.0	0.0	Vert	AV	0.0	23.4	54.0	-30.6	EUT Horizontal, Mid Ch
1212.433	30.0	-6.6	1.0	292.0	3.0	0.0	Horz	AV	0.0	23.4	54.0	-30.6	EUT Horizontal, High Ch
1215.283	42.2	-6.6	1.3	294.0	3.0	0.0	Vert	PK	0.0	35.6	74.0	-38.4	EUT Horizontal, High Ch
1212.408	41.9	-6.6	1.0	292.0	3.0	0.0	Horz	PK	0.0	35.3	74.0	-38.7	EUT Horizontal, High Ch
1208.292	41.8	-6.7	1.0	301.0	3.0	0.0	Vert	PK	0.0	35.1	74.0	-38.9	EUT Horizontal, Low Ch
1209.358	41.4	-6.7	1.0	83.0	3.0	0.0	Horz	PK	0.0	34.7	74.0	-39.3	EUT Horizontal, Mid Ch
1204.492	41.2	-6.7	1.0	46.0	3.0	0.0	Horz	PK	0.0	34.5	74.0	-39.5	EUT Horizontal, Low Ch
1207.683	40.9	-6.7	1.0	264.0	3.0	0.0	Vert	PK	0.0	34.2	74.0	-39.8	EUT Horizontal, Mid Ch

AC POWERLINE CONDUCTED EMISSIONS

TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50 Ω measuring port is terminated by a 50 Ω EMI meter or a 50 Ω resistive load. All 50 Ω measuring ports of the LISN are terminated by 50 Ω .

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARG	04/01/2013	12 mo
Attenuator 20dB, BNC	Fairview Microwave	SA01B-20	AQP	08/09/2013	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HGN	05/31/2012	24 mo
MN03 Cables	ESM Cable Corp.	Conducted Cables	MNC	01/17/2013	12 mo
LISN	Solar Electronics	9252-50-R-24-BNC	LIY	05/24/2013	12 mo

MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	2.94 dB	-2.94 dB

CONFIGURATIONS INVESTIGATED

BSTN0429-3

MODES INVESTIGATED

Per Boston Scientific EDVT# 1114584: Mode 2, Channel 0.
 Per Boston Scientific EDVT# 1114584: Mode 2, Channel 4.
 Per Boston Scientific EDVT# 1114584: Mode 2, Channel 9.
 Per Boston Scientific EDVT# 1114584: Mode 3, Channel 0.
 Per Boston Scientific EDVT# 1114584: Mode 3, Channel 4.
 Per Boston Scientific EDVT# 1114584: Mode 3, Channel 9.

AC POWERLINE CONDUCTED EMISSIONS

EUT:	Model 6290	Work Order:	BSTN0429
Serial Number:	626	Date:	08/02/2013
Customer:	Boston Scientific Corporation	Temperature:	23.5°C
Attendees:	none	Relative Humidity:	49.3%
Customer Project:	None	Bar. Pressure:	1013.1 mb
Tested By:	Johnathan Lee	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0429-3

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2013	ANSI C63.10:2009

TEST PARAMETERS

Run #:	15	Line:	High Line	Ext. Attenuation (dB):	20
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COMMENTS

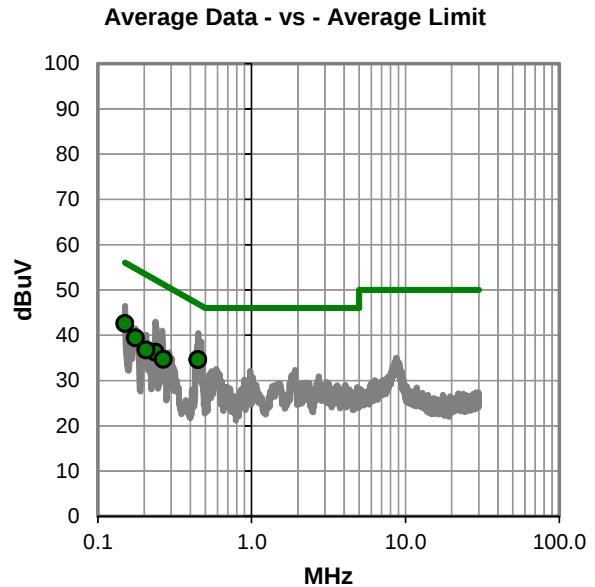
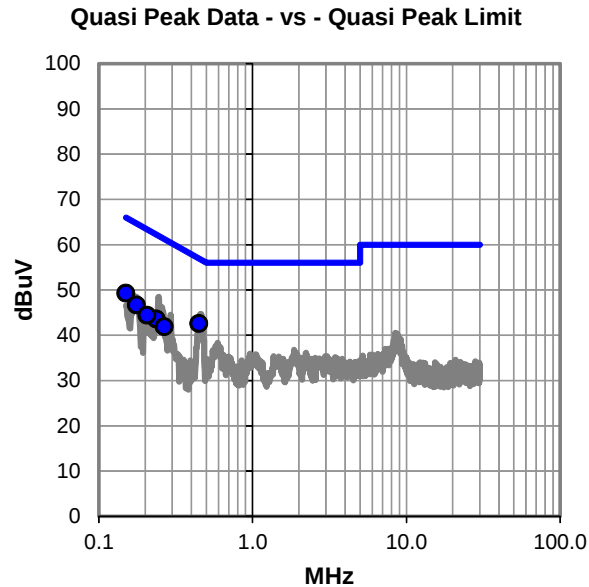
None

EUT OPERATING MODES

Per Boston Scientific EDVT# 1114584: Mode 2, Channel 0.

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #15

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.447	22.4	20.2	42.6	56.9	-14.3
0.150	29.1	20.2	49.3	66.0	-16.7
0.176	26.5	20.2	46.7	64.7	-18.0
0.237	23.4	20.2	43.6	62.2	-18.6
0.206	24.2	20.2	44.4	63.4	-19.0
0.266	21.7	20.2	41.9	61.2	-19.3

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.447	14.4	20.2	34.6	46.9	-12.3
0.150	22.4	20.2	42.6	56.0	-13.4
0.176	19.2	20.2	39.4	54.7	-15.3
0.237	16.0	20.2	36.2	52.2	-16.0
0.266	14.5	20.2	34.7	51.2	-16.5
0.206	16.5	20.2	36.7	53.4	-16.7

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	Model 6290	Work Order:	BSTN0429
Serial Number:	626	Date:	08/02/2013
Customer:	Boston Scientific Corporation	Temperature:	23.5°C
Attendees:	none	Relative Humidity:	49.3%
Customer Project:	None	Bar. Pressure:	1013.1 mb
Tested By:	Johnathan Lee	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0429-3

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2013	ANSI C63.10:2009

TEST PARAMETERS

Run #:	16	Line:	Neutral	Ext. Attenuation (dB):	20
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COMMENTS

None

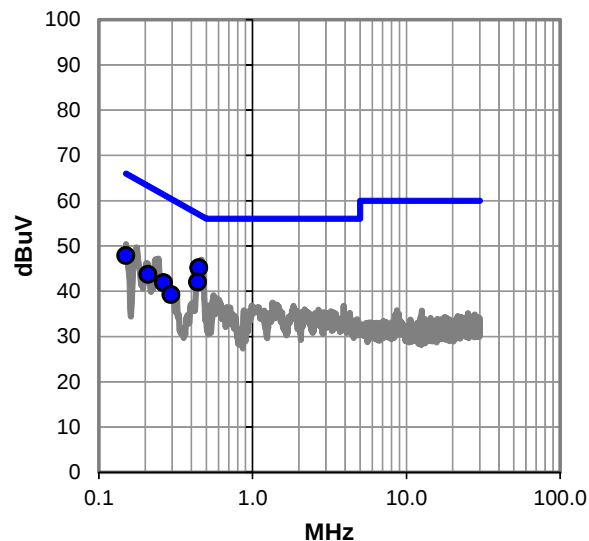
EUT OPERATING MODES

Per Boston Scientific EDVT# 1114584: Mode 2, Channel 0.

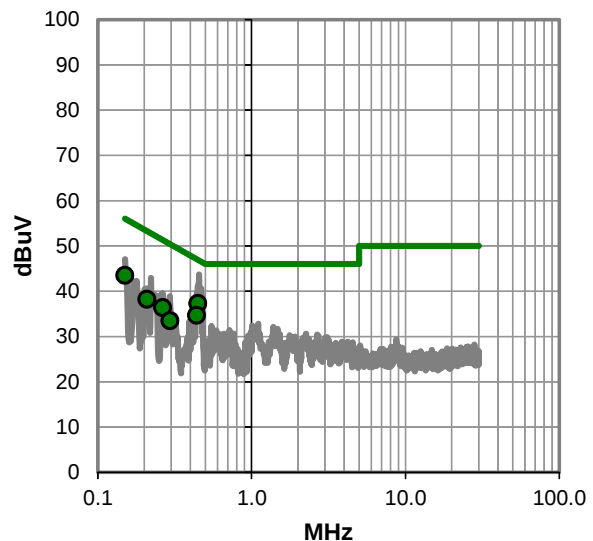
DEVIATIONS FROM TEST STANDARD

None

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #16

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.448	25.0	20.2	45.2	56.9	-11.7
0.439	21.8	20.2	42.0	57.1	-15.1
0.150	27.7	20.2	47.9	66.0	-18.1
0.264	21.7	20.2	41.9	61.3	-19.4
0.209	23.5	20.2	43.7	63.2	-19.5
0.295	19.1	20.2	39.3	60.4	-21.1

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.448	17.1	20.2	37.3	46.9	-9.6
0.439	14.5	20.2	34.7	47.1	-12.4
0.150	23.3	20.2	43.5	56.0	-12.5
0.264	16.2	20.2	36.4	51.3	-14.9
0.209	18.0	20.2	38.2	53.2	-15.0
0.295	13.3	20.2	33.5	50.4	-16.9

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	Model 6290	Work Order:	BSTN0429
Serial Number:	626	Date:	08/23/2013
Customer:	Boston Scientific Corporation	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	47.8%
Customer Project:	None	Bar. Pressure:	1019.9 mb
Tested By:	Johnathan Lee	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0429-3

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2013	ANSI C63.10:2009

TEST PARAMETERS

Run #:	60	Line:	High Line	Ext. Attenuation (dB):	20
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COMMENTS

None

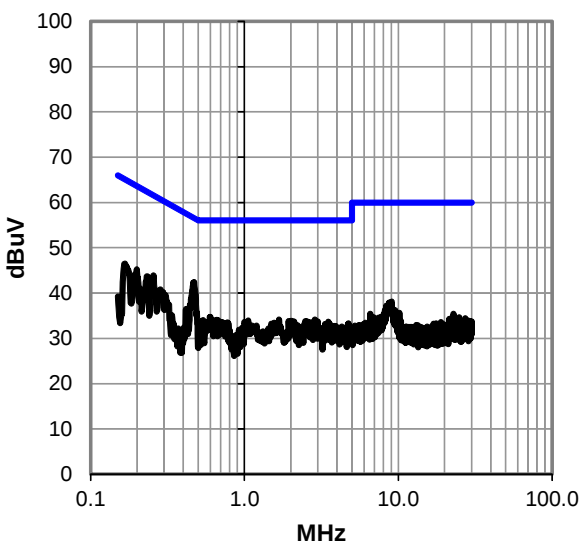
EUT OPERATING MODES

Per Boston Scientific EDVT# 1114584: Mode 2, Channel 4.

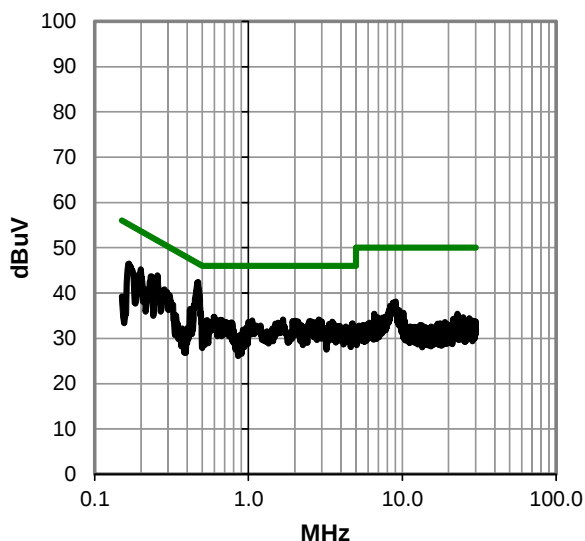
DEVIATIONS FROM TEST STANDARD

None

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #60

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.470	22.2	20.2	42.4	56.5	-14.1
0.255	23.7	20.2	43.9	61.6	-17.7
0.199	25.0	20.2	45.2	63.6	-18.4
0.167	26.3	20.2	46.5	65.1	-18.6
0.232	23.5	20.2	43.7	62.4	-18.7
0.283	20.6	20.2	40.8	60.7	-19.9
0.305	19.3	20.2	39.5	60.1	-20.6
0.417	16.3	20.2	36.5	57.5	-21.0
0.595	14.5	20.2	34.7	56.0	-21.3
1.680	13.9	20.3	34.2	56.0	-21.8
2.864	13.8	20.3	34.1	56.0	-21.9
0.660	13.9	20.2	34.1	56.0	-21.9
9.040	17.4	20.7	38.1	60.0	-21.9
0.539	13.8	20.2	34.0	56.0	-22.0
0.672	13.8	20.2	34.0	56.0	-22.0
1.056	13.7	20.2	33.9	56.0	-22.1
2.024	13.6	20.3	33.9	56.0	-22.1
2.496	13.5	20.3	33.8	56.0	-22.2
0.529	13.6	20.2	33.8	56.0	-22.2
2.992	13.4	20.3	33.7	56.0	-22.3
3.512	13.3	20.4	33.7	56.0	-22.3
2.712	13.2	20.3	33.5	56.0	-22.5
0.774	13.3	20.2	33.5	56.0	-22.5
0.786	13.1	20.2	33.3	56.0	-22.7
4.752	12.9	20.4	33.3	56.0	-22.7
3.600	12.8	20.4	33.2	56.0	-22.8

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.470	22.2	20.2	42.4	46.5	-4.1
0.255	23.7	20.2	43.9	51.6	-7.7
0.199	25.0	20.2	45.2	53.6	-8.4
0.167	26.3	20.2	46.5	55.1	-8.6
0.232	23.5	20.2	43.7	52.4	-8.7
0.283	20.6	20.2	40.8	50.7	-9.9
0.305	19.3	20.2	39.5	50.1	-10.6
0.417	16.3	20.2	36.5	47.5	-11.0
0.595	14.5	20.2	34.7	46.0	-11.3
1.680	13.9	20.3	34.2	46.0	-11.8
2.864	13.8	20.3	34.1	46.0	-11.9
0.660	13.9	20.2	34.1	46.0	-11.9
9.040	17.4	20.7	38.1	50.0	-11.9
0.539	13.8	20.2	34.0	46.0	-12.0
0.672	13.8	20.2	34.0	46.0	-12.0
1.056	13.7	20.2	33.9	46.0	-12.1
2.024	13.6	20.3	33.9	46.0	-12.1
2.496	13.5	20.3	33.8	46.0	-12.2
0.529	13.6	20.2	33.8	46.0	-12.2
2.992	13.4	20.3	33.7	46.0	-12.3
3.512	13.3	20.4	33.7	46.0	-12.3
2.712	13.2	20.3	33.5	46.0	-12.5
0.774	13.3	20.2	33.5	46.0	-12.5
0.786	13.1	20.2	33.3	46.0	-12.7
4.752	12.9	20.4	33.3	46.0	-12.7
3.600	12.8	20.4	33.2	46.0	-12.8

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	Model 6290	Work Order:	BSTN0429
Serial Number:	626	Date:	08/23/2013
Customer:	Boston Scientific Corporation	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	47.8%
Customer Project:	None	Bar. Pressure:	1019.9 mb
Tested By:	Johnathan Lee	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0429-3

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2013	ANSI C63.10:2009

TEST PARAMETERS

Run #:	61	Line:	Neutral	Ext. Attenuation (dB):	20
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COMMENTS

None

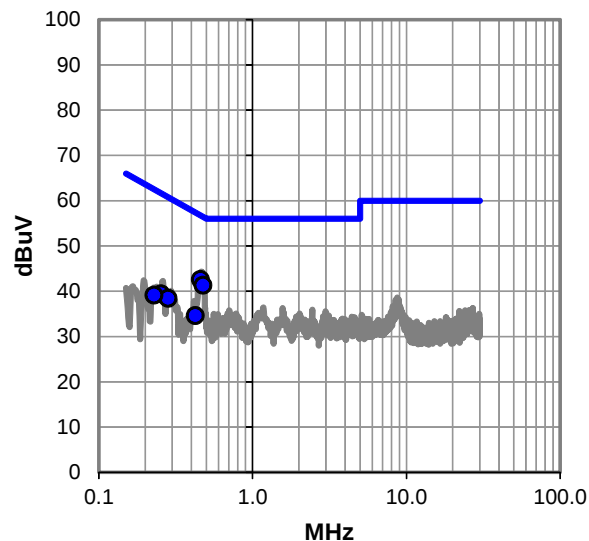
EUT OPERATING MODES

Per Boston Scientific EDVT# 1114584: Mode 2, Channel 4.

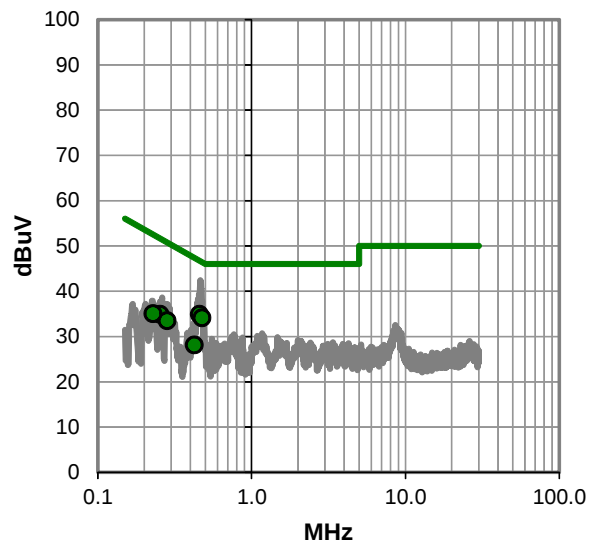
DEVIATIONS FROM TEST STANDARD

None

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #61

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.459	22.4	20.2	42.6	56.7	-14.1
0.476	21.1	20.2	41.3	56.4	-15.1
0.254	19.2	20.2	39.4	61.6	-22.2
0.283	18.2	20.2	38.4	60.7	-22.3
0.425	14.4	20.2	34.6	57.3	-22.7
0.229	18.9	20.2	39.1	62.5	-23.4

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.459	14.7	20.2	34.9	46.7	-11.8
0.476	13.9	20.2	34.1	46.4	-12.3
0.254	14.7	20.2	34.9	51.6	-16.7
0.283	13.3	20.2	33.5	50.7	-17.2
0.229	14.8	20.2	35.0	52.5	-17.5
0.425	7.9	20.2	28.1	47.3	-19.2

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	Model 6290	Work Order:	BSTN0429
Serial Number:	626	Date:	08/23/2013
Customer:	Boston Scientific Corporation	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	47.8%
Customer Project:	None	Bar. Pressure:	1019.9 mb
Tested By:	Johnathan Lee	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0429-3

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2013	ANSI C63.10:2009

TEST PARAMETERS

Run #:	62	Line:	Neutral	Ext. Attenuation (dB):	20
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COMMENTS

None

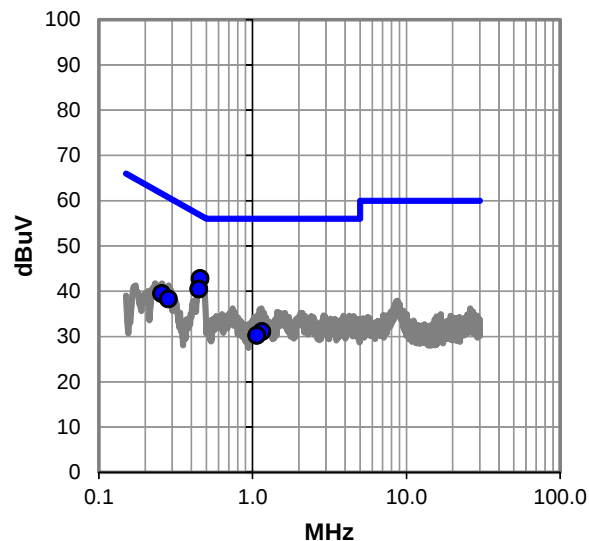
EUT OPERATING MODES

Per Boston Scientific EDVT# 1114584: Mode 2, Channel 9.

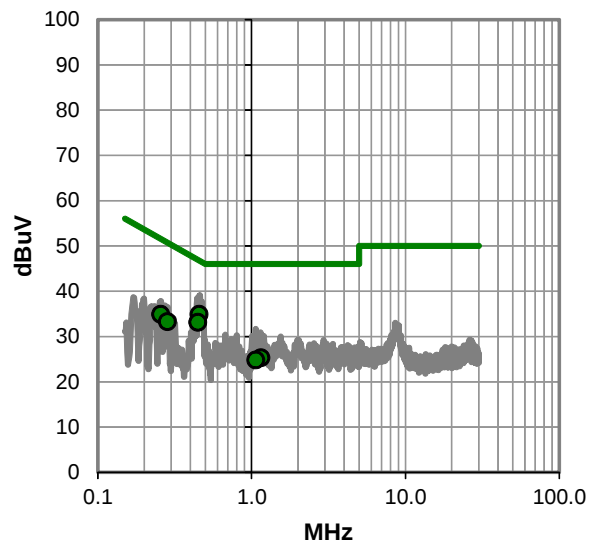
DEVIATIONS FROM TEST STANDARD

None

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #62

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.457	22.6	20.2	42.8	56.7	-13.9
0.448	20.3	20.2	40.5	56.9	-16.4
0.257	19.3	20.2	39.5	61.5	-22.0
0.284	18.1	20.2	38.3	60.7	-22.4
1.152	10.9	20.2	31.1	56.0	-24.9
1.068	10.0	20.2	30.2	56.0	-25.8

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.457	14.7	20.2	34.9	46.7	-11.8
0.448	12.9	20.2	33.1	46.9	-13.8
0.257	14.7	20.2	34.9	51.5	-16.6
0.284	13.1	20.2	33.3	50.7	-17.4
1.152	5.1	20.2	25.3	46.0	-20.7
1.068	4.6	20.2	24.8	46.0	-21.2

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	Model 6290	Work Order:	BSTN0429
Serial Number:	626	Date:	08/23/2013
Customer:	Boston Scientific Corporation	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	47.8%
Customer Project:	None	Bar. Pressure:	1019.9 mb
Tested By:	Johnathan Lee	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0429-3

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2013	ANSI C63.10:2009

TEST PARAMETERS

Run #:	63	Line:	High Line	Ext. Attenuation (dB):	20
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COMMENTS

None

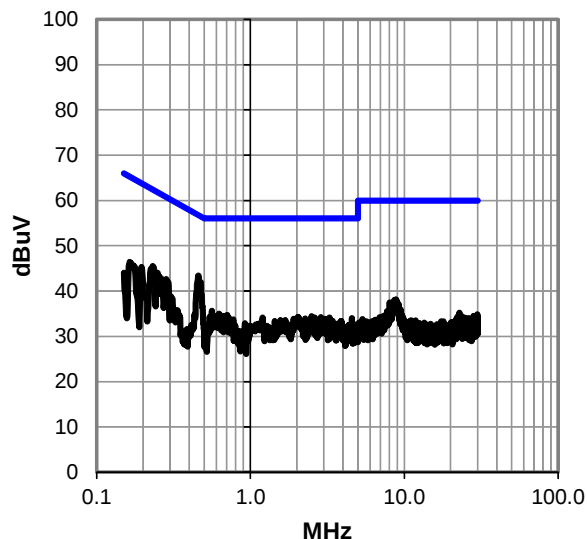
EUT OPERATING MODES

Per Boston Scientific EDVT# 1114584: Mode 2, Channel 9.

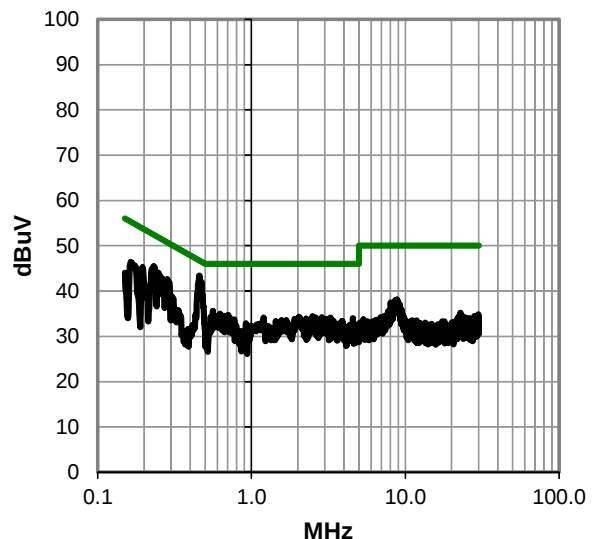
DEVIATIONS FROM TEST STANDARD

None

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #63

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.458	23.2	20.2	43.4	56.7	-13.3
0.232	25.3	20.2	45.5	62.4	-16.9
0.249	23.8	20.2	44.0	61.8	-17.8
0.283	22.4	20.2	42.6	60.7	-18.1
0.196	25.1	20.2	45.3	63.8	-18.5
0.262	22.6	20.2	42.8	61.4	-18.6
0.164	26.2	20.2	46.4	65.3	-18.9
0.561	15.4	20.2	35.6	56.0	-20.4
0.624	14.8	20.2	35.0	56.0	-21.0
0.704	14.5	20.2	34.7	56.0	-21.3
0.301	18.7	20.2	38.9	60.2	-21.3
0.660	14.3	20.2	34.5	56.0	-21.5
2.496	14.1	20.3	34.4	56.0	-21.6
2.040	14.0	20.3	34.3	56.0	-21.7
0.544	14.1	20.2	34.3	56.0	-21.7
2.872	13.9	20.3	34.2	56.0	-21.8
3.256	13.8	20.3	34.1	56.0	-21.9
2.616	13.8	20.3	34.1	56.0	-21.9
1.200	13.9	20.2	34.1	56.0	-21.9
0.725	13.9	20.2	34.1	56.0	-21.9
8.840	17.4	20.7	38.1	60.0	-21.9
0.150	23.8	20.2	44.0	66.0	-22.0
4.560	13.6	20.4	34.0	56.0	-22.0
2.272	13.6	20.3	33.9	56.0	-22.1
2.784	13.3	20.3	33.6	56.0	-22.4
1.688	13.3	20.3	33.6	56.0	-22.4

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.458	23.2	20.2	43.4	46.7	-3.3
0.232	25.3	20.2	45.5	52.4	-6.9
0.249	23.8	20.2	44.0	51.8	-7.8
0.283	22.4	20.2	42.6	50.7	-8.1
0.196	25.1	20.2	45.3	53.8	-8.5
0.262	22.6	20.2	42.8	51.4	-8.6
0.164	26.2	20.2	46.4	55.3	-8.9
0.561	15.4	20.2	35.6	46.0	-10.4
0.624	14.8	20.2	35.0	46.0	-11.0
0.704	14.5	20.2	34.7	46.0	-11.3
0.301	18.7	20.2	38.9	50.2	-11.3
0.660	14.3	20.2	34.5	46.0	-11.5
2.496	14.1	20.3	34.4	46.0	-11.6
2.040	14.0	20.3	34.3	46.0	-11.7
0.544	14.1	20.2	34.3	46.0	-11.7
2.872	13.9	20.3	34.2	46.0	-11.8
3.256	13.8	20.3	34.1	46.0	-11.9
2.616	13.8	20.3	34.1	46.0	-11.9
1.200	13.9	20.2	34.1	46.0	-11.9
0.725	13.9	20.2	34.1	46.0	-11.9
8.840	17.4	20.7	38.1	50.0	-11.9
0.150	23.8	20.2	44.0	56.0	-12.0
4.560	13.6	20.4	34.0	46.0	-12.0
2.272	13.6	20.3	33.9	46.0	-12.1
2.784	13.3	20.3	33.6	46.0	-12.4
1.688	13.3	20.3	33.6	46.0	-12.4

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	Model 6290	Work Order:	BSTN0429
Serial Number:	626	Date:	08/23/2013
Customer:	Boston Scientific Corporation	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	47.8%
Customer Project:	None	Bar. Pressure:	1019.9 mb
Tested By:	Johnathan Lee	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0429-3

TEST SPECIFICATIONS

Specification: Equipment Class B FCC 15.107:2013	Method: ANSI C63.4:2009
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TEST PARAMETERS

Run #:	64	Line:	High Line	Ext. Attenuation (dB):	20
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COMMENTS

None

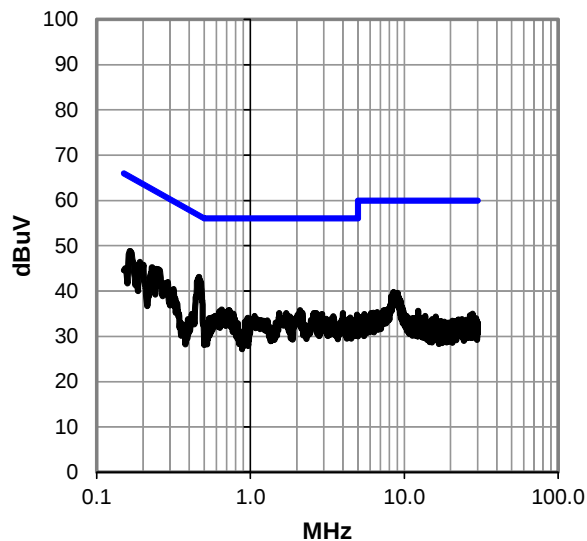
EUT OPERATING MODES

Per Boston Scientific EDVT# 1114584: Mode 3, Channel 0.

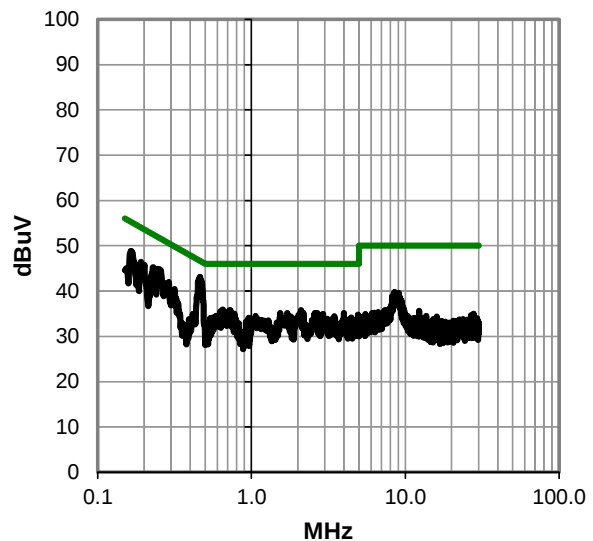
DEVIATIONS FROM TEST STANDARD

None

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #64

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.461	22.9	20.2	43.1	56.7	-13.6
0.164	28.6	20.2	48.8	65.3	-16.5
0.243	24.7	20.2	44.9	62.0	-17.1
0.228	25.0	20.2	45.2	62.5	-17.3
0.191	26.2	20.2	46.4	64.0	-17.6
0.289	21.8	20.2	42.0	60.5	-18.5
0.317	20.2	20.2	40.4	59.8	-19.4
0.650	15.7	20.2	35.9	56.0	-20.1
8.500	19.2	20.6	39.8	60.0	-20.2
2.096	15.5	20.3	35.8	56.0	-20.2
0.721	15.6	20.2	35.8	56.0	-20.2
0.626	15.3	20.2	35.5	56.0	-20.5
2.176	14.9	20.3	35.2	56.0	-20.8
0.153	24.8	20.2	45.0	65.8	-20.8
1.712	14.9	20.3	35.2	56.0	-20.8
3.984	14.8	20.4	35.2	56.0	-20.8
2.680	14.8	20.3	35.1	56.0	-20.9
0.774	14.8	20.2	35.0	56.0	-21.0
2.920	14.6	20.3	34.9	56.0	-21.1
8.240	18.3	20.6	38.9	60.0	-21.1
4.920	14.4	20.4	34.8	56.0	-21.2
1.064	14.3	20.2	34.5	56.0	-21.5
3.464	14.1	20.3	34.4	56.0	-21.6
1.808	14.1	20.3	34.4	56.0	-21.6
4.448	13.8	20.4	34.2	56.0	-21.8
0.959	13.9	20.2	34.1	56.0	-21.9

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.461	22.9	20.2	43.1	46.7	-3.6
0.164	28.6	20.2	48.8	55.3	-6.5
0.243	24.7	20.2	44.9	52.0	-7.1
0.228	25.0	20.2	45.2	52.5	-7.3
0.191	26.2	20.2	46.4	54.0	-7.6
0.289	21.8	20.2	42.0	50.5	-8.5
0.317	20.2	20.2	40.4	49.8	-9.4
0.650	15.7	20.2	35.9	46.0	-10.1
8.500	19.2	20.6	39.8	50.0	-10.2
2.096	15.5	20.3	35.8	46.0	-10.2
0.721	15.6	20.2	35.8	46.0	-10.2
0.626	15.3	20.2	35.5	46.0	-10.5
2.176	14.9	20.3	35.2	46.0	-10.8
0.153	24.8	20.2	45.0	55.8	-10.8
1.712	14.9	20.3	35.2	46.0	-10.8
3.984	14.8	20.4	35.2	46.0	-10.8
2.680	14.8	20.3	35.1	46.0	-10.9
0.774	14.8	20.2	35.0	46.0	-11.0
2.920	14.6	20.3	34.9	46.0	-11.1
8.240	18.3	20.6	38.9	50.0	-11.1
4.920	14.4	20.4	34.8	46.0	-11.2
1.064	14.3	20.2	34.5	46.0	-11.5
3.464	14.1	20.3	34.4	46.0	-11.6
1.808	14.1	20.3	34.4	46.0	-11.6
4.448	13.8	20.4	34.2	46.0	-11.8
0.959	13.9	20.2	34.1	46.0	-11.9

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	Model 6290	Work Order:	BSTN0429
Serial Number:	626	Date:	08/23/2013
Customer:	Boston Scientific Corporation	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	47.8%
Customer Project:	None	Bar. Pressure:	1019.9 mb
Tested By:	Johnathan Lee	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0429-3

TEST SPECIFICATIONS

Specification: Equipment Class B FCC 15.107:2013	Method: ANSI C63.4:2009
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TEST PARAMETERS

Run #:	65	Line:	Neutral	Ext. Attenuation (dB):	20
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COMMENTS

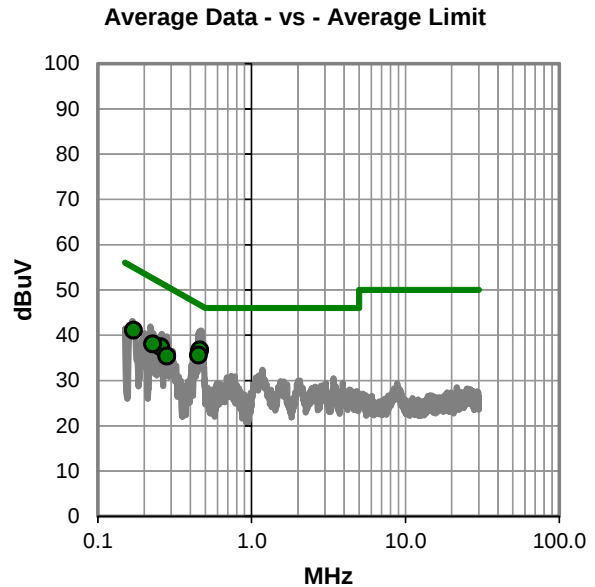
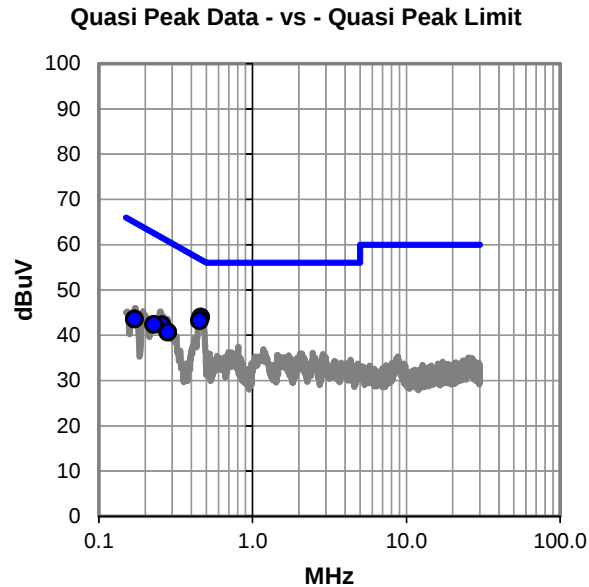
None

EUT OPERATING MODES

Per Boston Scientific EDVT# 1114584: Mode 3, Channel 0.

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #65

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.461	23.8	20.2	44.0	56.7	-12.7
0.451	23.0	20.2	43.2	56.9	-13.7
0.257	22.1	20.2	42.3	61.5	-19.2
0.281	20.5	20.2	40.7	60.8	-20.1
0.228	22.2	20.2	42.4	62.5	-20.1
0.171	23.4	20.2	43.6	64.9	-21.3

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.461	16.5	20.2	36.7	46.7	-10.0
0.451	15.4	20.2	35.6	46.9	-11.3
0.171	20.9	20.2	41.1	54.9	-13.8
0.257	17.2	20.2	37.4	51.5	-14.1
0.228	17.9	20.2	38.1	52.5	-14.4
0.281	15.2	20.2	35.4	50.8	-15.4

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	Model 6290	Work Order:	BSTN0429
Serial Number:	626	Date:	08/23/2013
Customer:	Boston Scientific Corporation	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	47.8%
Customer Project:	None	Bar. Pressure:	1019.9 mb
Tested By:	Johnathan Lee	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0429-3

TEST SPECIFICATIONS

Specification: Equipment Class B FCC 15.107:2013	Method: ANSI C63.4:2009
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TEST PARAMETERS

Run #:	66	Line:	Neutral	Ext. Attenuation (dB):	20
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COMMENTS

None

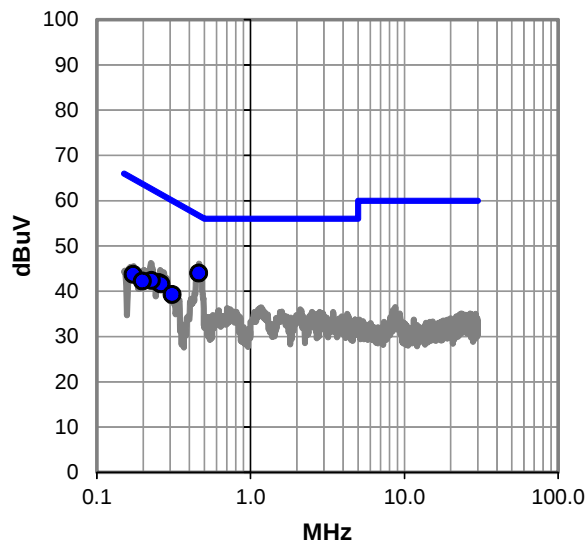
EUT OPERATING MODES

Per Boston Scientific EDVT# 1114584: Mode 3, Channel 4.

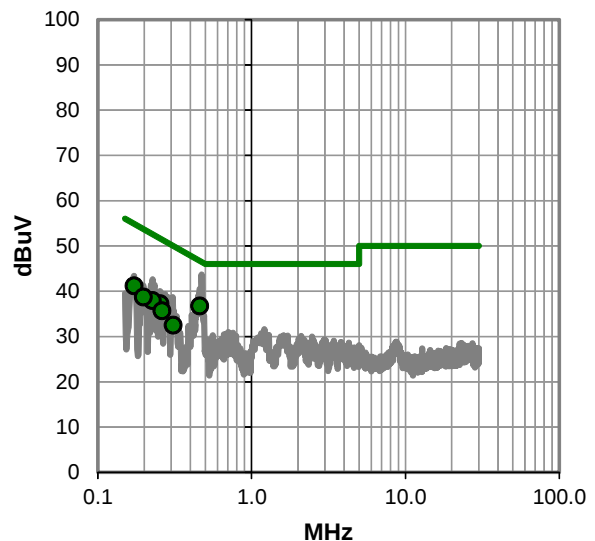
DEVIATIONS FROM TEST STANDARD

None

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #66

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.461	23.8	20.2	44.0	56.7	-12.7
0.254	21.7	20.2	41.9	61.6	-19.7
0.262	21.4	20.2	41.6	61.4	-19.8
0.227	22.2	20.2	42.4	62.6	-20.2
0.310	19.1	20.2	39.3	60.0	-20.7
0.172	23.5	20.2	43.7	64.9	-21.2
0.198	22.0	20.2	42.2	63.7	-21.5

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.461	16.5	20.2	36.7	46.7	-10.0
0.172	21.0	20.2	41.2	54.9	-13.7
0.254	17.0	20.2	37.2	51.6	-14.4
0.227	17.7	20.2	37.9	52.6	-14.7
0.198	18.5	20.2	38.7	53.7	-15.0
0.262	15.5	20.2	35.7	51.4	-15.7
0.310	12.3	20.2	32.5	50.0	-17.5

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	Model 6290	Work Order:	BSTN0429
Serial Number:	626	Date:	08/23/2013
Customer:	Boston Scientific Corporation	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	47.8%
Customer Project:	None	Bar. Pressure:	1019.9 mb
Tested By:	Johnathan Lee	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0429-3

TEST SPECIFICATIONS

Specification: Equipment Class B FCC 15.107:2013	Method: ANSI C63.4:2009
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TEST PARAMETERS

Run #:	67	Line:	High Line	Ext. Attenuation (dB):	20
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COMMENTS

None

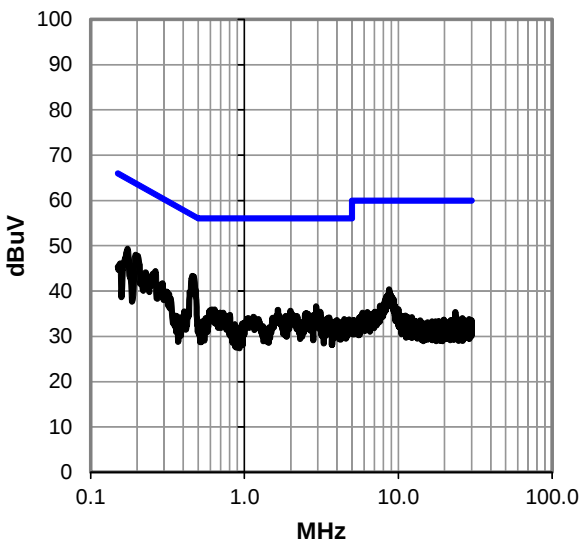
EUT OPERATING MODES

Per Boston Scientific EDVT# 1114584: Mode 3, Channel 4.

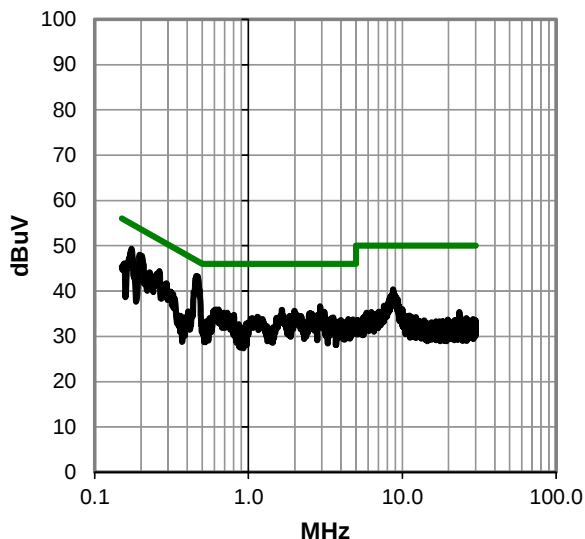
DEVIATIONS FROM TEST STANDARD

None

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #67

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.458	23.1	20.2	43.3	56.7	-13.4
0.174	29.1	20.2	49.3	64.8	-15.5
0.196	27.8	20.2	48.0	63.8	-15.8
0.264	24.2	20.2	44.4	61.3	-16.9
0.227	23.9	20.2	44.1	62.6	-18.5
0.293	21.5	20.2	41.7	60.4	-18.7
2.928	16.3	20.3	36.6	56.0	-19.4
0.155	25.9	20.2	46.1	65.7	-19.6
8.740	19.7	20.7	40.4	60.0	-19.6
0.612	15.7	20.2	35.9	56.0	-20.1
1.656	15.6	20.3	35.9	56.0	-20.1
1.992	15.3	20.3	35.6	56.0	-20.4
3.112	15.1	20.3	35.4	56.0	-20.6
0.692	15.0	20.2	35.2	56.0	-20.8
0.726	15.0	20.2	35.2	56.0	-20.8
2.536	14.8	20.3	35.1	56.0	-20.9
0.806	14.5	20.2	34.7	56.0	-21.3
1.856	14.2	20.3	34.5	56.0	-21.5
1.144	14.1	20.2	34.3	56.0	-21.7
3.552	13.8	20.4	34.2	56.0	-21.8
4.464	13.4	20.4	33.8	56.0	-22.2
0.405	15.3	20.2	35.5	57.8	-22.3
3.368	13.4	20.3	33.7	56.0	-22.3
4.792	13.3	20.4	33.7	56.0	-22.3
4.000	13.2	20.4	33.6	56.0	-22.4
3.256	13.2	20.3	33.5	56.0	-22.5

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.458	23.1	20.2	43.3	46.7	-3.4
0.174	29.1	20.2	49.3	54.8	-5.5
0.196	27.8	20.2	48.0	53.8	-5.8
0.264	24.2	20.2	44.4	51.3	-6.9
0.227	23.9	20.2	44.1	52.6	-8.5
0.293	21.5	20.2	41.7	50.4	-8.7
2.928	16.3	20.3	36.6	46.0	-9.4
0.155	25.9	20.2	46.1	55.7	-9.6
8.740	19.7	20.7	40.4	50.0	-9.6
0.612	15.7	20.2	35.9	46.0	-10.1
1.656	15.6	20.3	35.9	46.0	-10.1
1.992	15.3	20.3	35.6	46.0	-10.4
3.112	15.1	20.3	35.4	46.0	-10.6
0.692	15.0	20.2	35.2	46.0	-10.8
0.726	15.0	20.2	35.2	46.0	-10.8
2.536	14.8	20.3	35.1	46.0	-10.9
0.806	14.5	20.2	34.7	46.0	-11.3
1.856	14.2	20.3	34.5	46.0	-11.5
1.144	14.1	20.2	34.3	46.0	-11.7
3.552	13.8	20.4	34.2	46.0	-11.8
4.464	13.4	20.4	33.8	46.0	-12.2
0.405	15.3	20.2	35.5	47.8	-12.3
3.368	13.4	20.3	33.7	46.0	-12.3
4.792	13.3	20.4	33.7	46.0	-12.3
4.000	13.2	20.4	33.6	46.0	-12.4
3.256	13.2	20.3	33.5	46.0	-12.5

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	Model 6290	Work Order:	BSTN0429
Serial Number:	626	Date:	08/23/2013
Customer:	Boston Scientific Corporation	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	47.8%
Customer Project:	None	Bar. Pressure:	1019.9 mb
Tested By:	Johnathan Lee	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0429-3

TEST SPECIFICATIONS

Specification: Equipment Class B FCC 15.107:2013	Method: ANSI C63.4:2009
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TEST PARAMETERS

Run #:	68	Line:	High Line	Ext. Attenuation (dB):	20
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COMMENTS

None

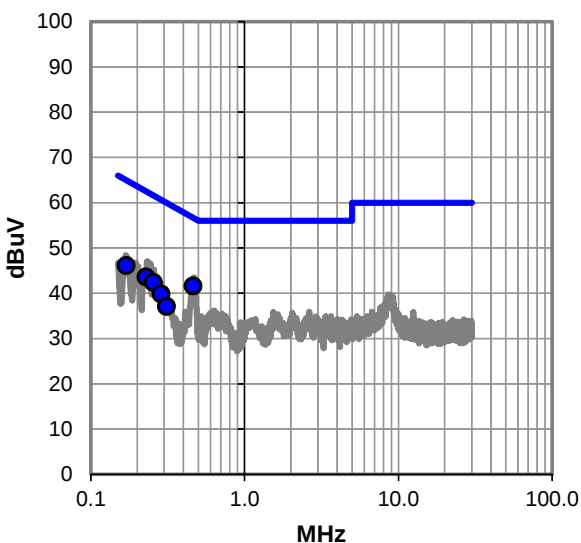
EUT OPERATING MODES

Per Boston Scientific EDVT# 1114584: Mode 3, Channel 9.

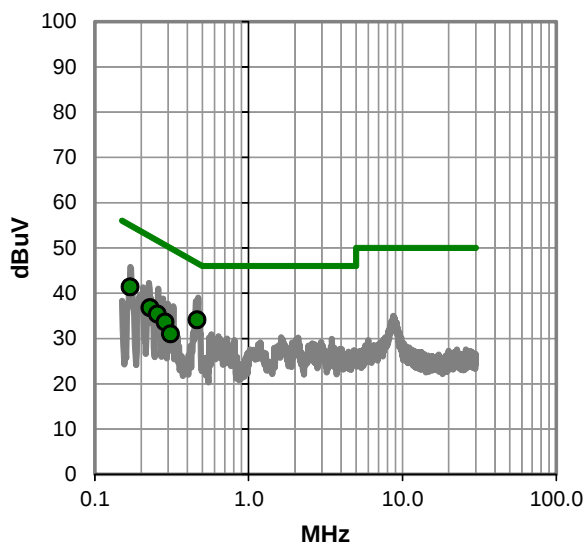
DEVIATIONS FROM TEST STANDARD

None

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #68

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.463	21.4	20.2	41.6	56.6	-15.0
0.170	25.9	20.2	46.1	65.0	-18.9
0.229	23.4	20.2	43.6	62.5	-18.9
0.255	22.2	20.2	42.4	61.6	-19.2
0.286	19.6	20.2	39.8	60.6	-20.8
0.311	16.9	20.2	37.1	59.9	-22.8

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.463	13.9	20.2	34.1	46.6	-12.5
0.170	21.2	20.2	41.4	55.0	-13.6
0.229	16.6	20.2	36.8	52.5	-15.7
0.255	15.2	20.2	35.4	51.6	-16.2
0.286	13.4	20.2	33.6	50.6	-17.0
0.311	10.8	20.2	31.0	49.9	-18.9

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	Model 6290	Work Order:	BSTN0429
Serial Number:	626	Date:	08/23/2013
Customer:	Boston Scientific Corporation	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	47.8%
Customer Project:	None	Bar. Pressure:	1019.9 mb
Tested By:	Johnathan Lee	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	BSTN0429-3

TEST SPECIFICATIONS

Specification: Equipment Class B FCC 15.107:2013	Method: ANSI C63.4:2009
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TEST PARAMETERS

Run #:	69	Line:	Neutral	Ext. Attenuation (dB):	20
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COMMENTS

None

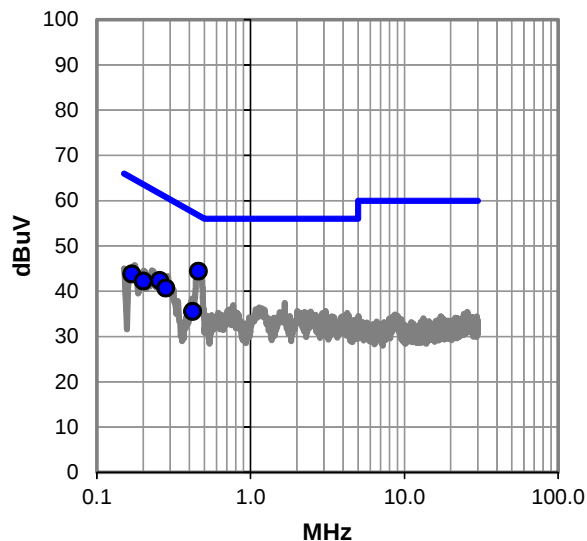
EUT OPERATING MODES

Per Boston Scientific EDVT# 1114584: Mode 3, Channel 9.

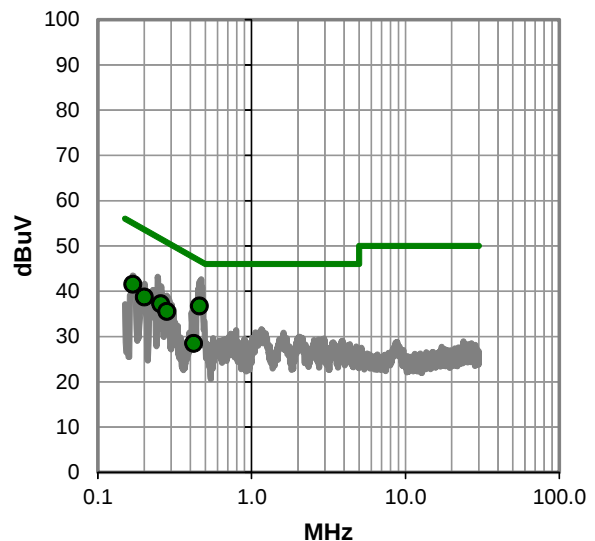
DEVIATIONS FROM TEST STANDARD

None

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #69

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.458	24.2	20.2	44.4	56.7	-12.3
0.257	22.2	20.2	42.4	61.5	-19.1
0.281	20.5	20.2	40.7	60.8	-20.1
0.169	23.6	20.2	43.8	65.0	-21.2
0.201	22.0	20.2	42.2	63.6	-21.4
0.420	15.3	20.2	35.5	57.4	-21.9

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.458	16.5	20.2	36.7	46.7	-10.0
0.169	21.3	20.2	41.5	55.0	-13.5
0.257	17.0	20.2	37.2	51.5	-14.3
0.201	18.5	20.2	38.7	53.6	-14.9
0.281	15.3	20.2	35.5	50.8	-15.3
0.420	8.3	20.2	28.5	47.4	-18.9

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

