



Boston Scientific Corporation

Autogen NG3

FCC 95I:2013

Report #: BSTN0405.1 Rev. 1



Report Prepared By Northwest EMC Inc.

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

California – Minnesota – Oregon – New York – Washington

Last Date of Test: January 30, 2013
Boston Scientific Corporation
Model: Autogen NG3

Emissions

Test Description	Specification	Test Method	Pass/Fail
Field Strength of Fundamental	FCC 951:2013	ANSI/TIA/EIA-603-C:2004	Pass
Emission Mask	FCC 951:2013	ANSI/TIA/EIA-603-C:2004	Pass
Emission Bandwidth	FCC 951:2013	ANSI/TIA/EIA-603-C:2004	Pass
Frequency Stability	FCC 951:2013	ANSI/TIA/EIA-603-C:2004	Pass
Receiver Spurious Emissions	FCC 15.109:2013 Class B	ANSI C63.4:2009	Pass
Spurious Radiated Emissions	FCC 951:2013	ANSI/TIA/EIA-603-C:2004	Pass

Deviations From Test Standards

None

Approved By:



Donald Facteau, IS Manager



NVLAP Lab Code: 200881-0

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).

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		
01	Updated Report Number	2/22/2013	Cover

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.

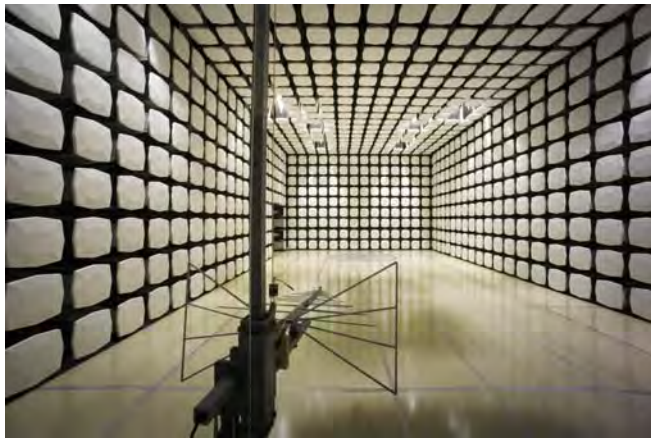
SCOPE

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

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



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 WA01-04 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





WTD 12.5.23

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:	Daniel Landherr
Model:	Autogen NG3
First Date of Test:	January 22, 2013
Last Date of Test:	January 30, 2013
Receipt Date of Samples:	January 22, 2013
Equipment Design Stage:	Prototype
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
Implantable Pulse Generator (IPG) with MICS and Inductive radio modules
Testing Objective:
Seeking FCC authorization for the MICS transmitter, FCC Part 95.

Configuration BSTN0405- 1

Software/Firmware Running during test	
Description	Version
No Firmware Loaded	None

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Autogen IPG	Boston Scientific Corporation	G179 - EDVT091	149154

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Lead IS1 SN:305813, Model: 4063	No	44 cm	No	Autogen IPG	Terminated
Lead IS4 SN:102319, Model: 4678	No	96 cm	No	Autogen IPG	Terminated
Lead DF4 SN:105700, Model: 0695	No	58 cm	No	Autogen IPG	Terminated

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

Configuration BSTN0405- 2

Software/Firmware Running during test	
Description	Version
No Firmware Loaded	None

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Autogen IPG	Boston Scientific Corporation	G175 - EDVT036	157301

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Lead IS1 SN:305813, Model: 4063	No	44 cm	No	Autogen IPG	Terminated
Lead IS1/DF1 SN:0159, Model: 0159	No	90 cm	No	Autogen IPG	Terminated
Lead LV SN:161357, Model: 4525	No	90 cm	No	Autogen IPG	Terminated

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

Configuration BSTN0405- 3

Software/Firmware Running during test	
Description	Version
No Firmware Loaded	None

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Autogen IPG	Boston Scientific Corporation	D175 - EDVT500	157403

Cables						
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2	
Lead IS1/DF1 SN:0159, Model: 0159	No	90 cm	No	Autogen IPG	Terminated	
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.						

Configuration BSTN0405- 4

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
NG3 Hybrid	Boston Scientific Corporation	Pilot A	41265571

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Inductive Coil	Boston Scientific Corporation	Ingenio	None

Cables						
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2	
Inductive Coil Leads	No	35 cm	No	Inductive Coil	NG3 Hybrid	
Banana Test Leads	No	100 cm	No	Lab DC Power Supply	NG3 Hybrid	
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.						

Configuration BSTN0405- 5

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
NG3 Hybrid	Boston Scientific Corporation	Pilot A	41265564

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Inductive Coil	Boston Scientific Corporation	Ingenio	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Inductive Coil Leads	No	35 cm	No	Inductive Coil	NG3 Hybrid
Banana Test Leads	No	100 cm	No	Lab DC Power Supply	NG3 Hybrid

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

Configuration BSTN0405- 6

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
NG3 Hybrid	Boston Scientific Corporation	Pilot A	41265511

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Inductive Coil	Boston Scientific Corporation	Ingenio	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Inductive Coil Leads	No	35 cm	No	Inductive Coil	NG3 Hybrid
Banana Test Leads	No	100 cm	No	Lab DC Power Supply	NG3 Hybrid

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	1/22/2013	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.
2	1/22/2013	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.
3	1/23/2013	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.
4	1/24/2013	Receiver Spurious 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.
5	1/24/2013	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.
6	1/30/2013	Frequency Stability	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Field Strength of Fundamental

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 low, mid, high channels: 402.15, 403.35, 404.85 MHz

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

BSTN0405 - 3

BSTN0405 - 1

BSTN0405 - 2

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	1000 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
Spectrum Analyzer	Agilent	E4446A	AAT	6/28/2012	24 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	8/28/2012	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	5/31/2012	12 mo
Antenna, Bilog	Teseq	CBL 6141B	AYD	12/17/2012	12 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

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

Per 95.627(g)(3), the maximum radiated field strength for a MICS transmitter is 18.2 mV/m. This is equivalent to a radiated field strength of 85.2 dBuV/m at 3 meters when measured over a reference ground plane. $85.2 = 20 * \text{LOG}(18.2 * 1000)$

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.

The EUT was configured to transmit in a fixture that simulates the human torso. The dimensions of the test fixture and the characteristics of the tissue substitute material met the requirements 95.627(i) and FCC KDB 617965. The height of the transmitter was 1.5-meter above the reference ground plane.

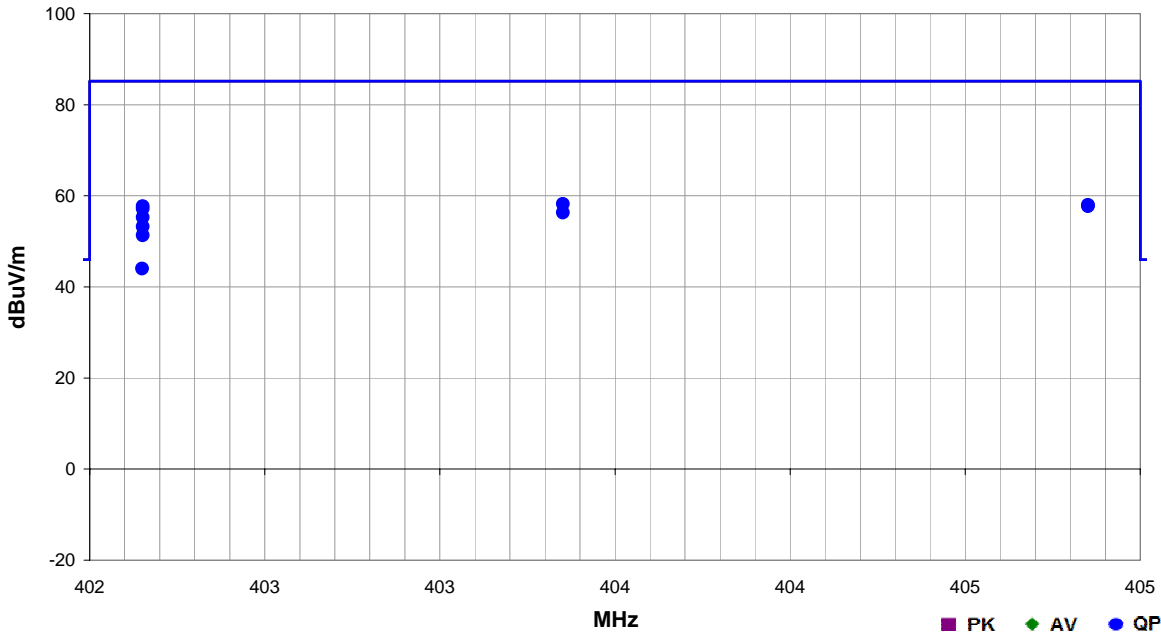


Field Strength of Fundamental

Work Order:	BSTN0405	Date:	01/23/13	
Project:	None	Temperature:	22.9 °C	
Job Site:	MN05	Humidity:	9.3% RH	
Serial Number:	149154	Barometric Pres.:	1022.6 mbar	
EUT:	Autogen NG3			
Configuration:	1			
Customer:	Boston Scientific Corporation			
Attendees:	Daniel Landherr			
EUT Power:	Battery			
Operating Mode:	Transmitting low, mid, high channels: 402.15, 403.35, 404.85 MHz			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 95I:2013	ANSI/TIA/EIA-603-C:2004

Run #	5	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
403.351	57.8	0.4	1.1	49.0	3.0	0.0	Horz	QP	0.0	58.2	85.2	-27.0	EUT Vertical, Mid Ch
404.851	57.5	0.5	1.6	0.0	3.0	0.0	Vert	QP	0.0	58.0	85.2	-27.2	EUT Vertical, High Ch
402.152	57.4	0.3	1.1	63.0	3.0	0.0	Horz	QP	0.0	57.7	85.2	-27.5	EUT Vertical, Low Ch
404.851	57.2	0.5	1.0	75.0	3.0	0.0	Horz	QP	0.0	57.7	85.2	-27.5	EUT Vertical, High Ch
402.152	56.8	0.3	1.6	356.0	3.0	0.0	Vert	QP	0.0	57.1	85.2	-28.1	EUT Vertical, Low Ch
403.351	55.9	0.4	1.6	346.0	3.0	0.0	Vert	QP	0.0	56.3	85.2	-28.9	EUT Vertical, Mid Ch
402.152	54.9	0.3	1.2	356.0	3.0	0.0	Horz	QP	0.0	55.2	85.2	-30.0	EUT Horizontal, Low Ch
402.152	52.9	0.3	1.6	358.0	3.0	0.0	Vert	QP	0.0	53.2	85.2	-32.0	EUT On Side, Low Ch
402.152	51.0	0.3	1.2	250.0	3.0	0.0	Horz	QP	0.0	51.3	85.2	-33.9	EUT On Side, Low Ch
402.150	43.7	0.3	1.0	285.0	3.0	0.0	Vert	QP	0.0	44.0	85.2	-41.2	EUT Horizontal, Low Ch

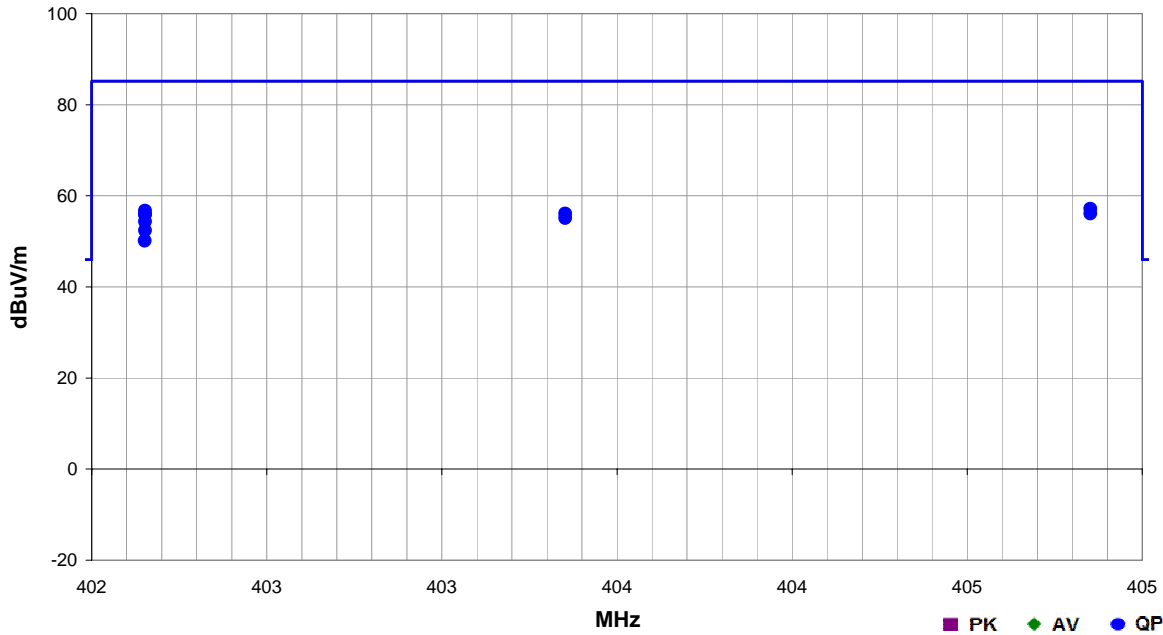


Field Strength of Fundamental

Work Order:	BSTN0405	Date:	01/23/13	
Project:	None	Temperature:	22.9 °C	
Job Site:	MN05	Humidity:	9.3% RH	
Serial Number:	157403	Barometric Pres.:	1022.6 mbar	
EUT:	Autogen NG3			
Configuration:	3			
Customer:	Boston Scientific Corporation			
Attendees:	Daniel Landherr			
EUT Power:	Battery			
Operating Mode:	Transmitting low, mid, high channels: 402.15, 403.35, 404.85 MHz			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 95I:2013	ANSI/TIA/EIA-603-C:2004

Run #	6	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
404.852	56.6	0.5	1.6	10.0	3.0	0.0	Vert	QP	0.0	57.1	85.2	-28.1	EUT Vertical, High Ch
402.152	56.4	0.3	1.7	344.0	3.0	0.0	Vert	QP	0.0	56.7	85.2	-28.5	EUT Vertical, Low Ch
403.352	55.7	0.4	1.1	66.0	3.0	0.0	Horz	QP	0.0	56.1	85.2	-29.1	EUT Vertical, Mid Ch
404.852	55.6	0.5	1.1	87.0	3.0	0.0	Horz	QP	0.0	56.1	85.2	-29.1	EUT Vertical, High Ch
402.152	55.6	0.3	1.2	68.0	3.0	0.0	Horz	QP	0.0	55.9	85.2	-29.3	EUT Vertical, Low Ch
402.152	55.5	0.3	1.1	354.0	3.0	0.0	Horz	QP	0.0	55.8	85.2	-29.4	EUT Horizontal, Low Ch
403.352	54.7	0.4	1.7	325.0	3.0	0.0	Vert	QP	0.0	55.1	85.2	-30.1	EUT Vertical, Mid Ch
402.152	54.0	0.3	1.7	343.0	3.0	0.0	Vert	QP	0.0	54.3	85.2	-30.9	EUT On Side, Low Ch
402.152	52.0	0.3	1.1	253.0	3.0	0.0	Horz	QP	0.0	52.3	85.2	-32.9	EUT On Side, Low Ch
402.152	49.8	0.3	1.7	315.0	3.0	0.0	Vert	QP	0.0	50.1	85.2	-35.1	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
Near Field Probe Set	ETS	7405	IPO	NCR	0
Spectrum Analyzer	Agilent	E4440A	AAX	5/15/2012	24

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

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 2012.09.20
PsaTx 2013.01.10

EUT: Autogen NG3		Work Order: BSTN0405	
Serial Number: 149154, 157301, 157403		Date: 01/22/13	
Customer: Boston Scientific Corporation		Temperature: 24.6°C	
Attendees: Daniel Landherr		Humidity: 11%	
Project: None		Barometric Pres.: 1031.7	
Tested by: Trevor Buls		Power: Battery	
		Job Site: MN08	

TEST SPECIFICATIONS		Test Method	
FCC 95:2013		ANSI/TIA/EIA-603-C-2004	

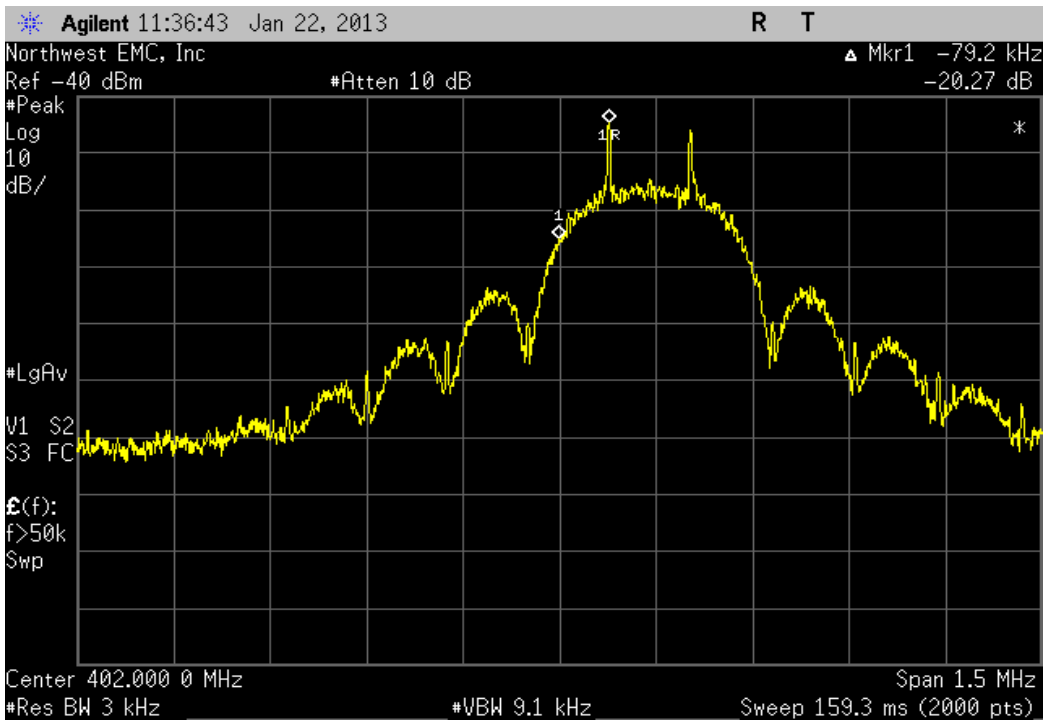
COMMENTS			
None			

DEVIATIONS FROM TEST STANDARD			
None			

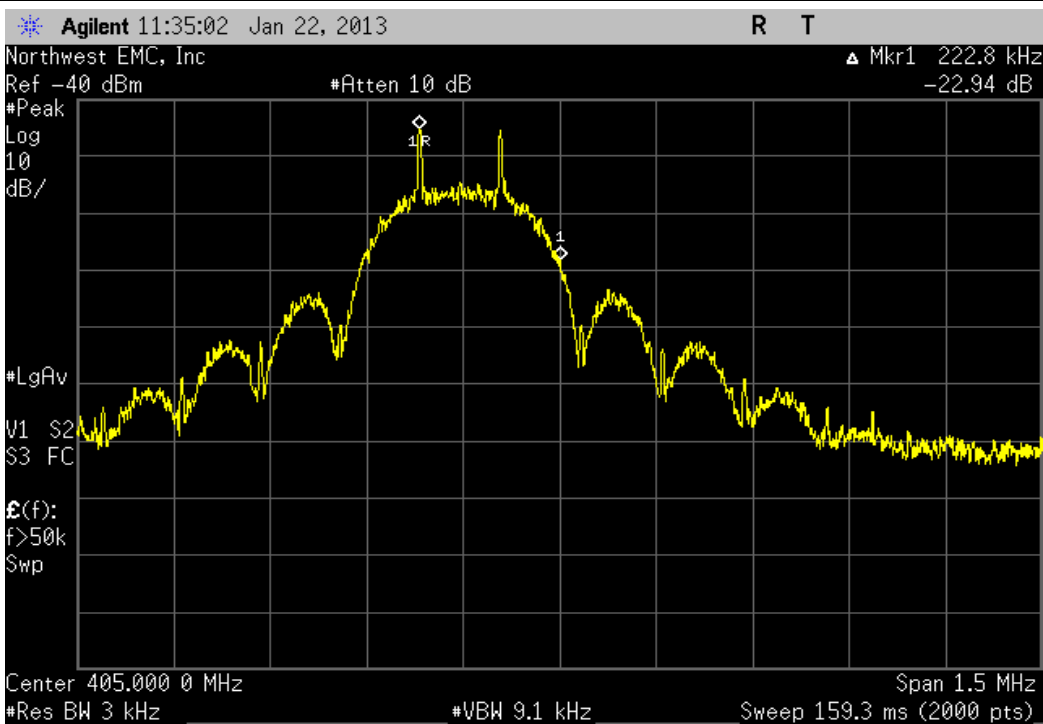
Configuration #	1,2,3	Signature	<i>Trevor Buls</i>
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		Value	Limit	Result
SN: 149154	Low Channel, 402.15 MHz	-20.27 dBc	≤ -20 dBc	Pass
	High Channel, 404.85 MHz	-22.94 dBc	≤ -20 dBc	Pass
SN: 157301	Low Channel, 402.15 MHz	-25.68 dBc	≤ -20 dBc	Pass
	High Channel, 404.85 MHz	-22.15 dBc	≤ -20 dBc	Pass
SN: 157403	Low Channel, 402.15 MHz	-20.16 dBc	≤ -20 dBc	Pass
	High Channel, 404.85 MHz	-22.69 dBc	≤ -20 dBc	Pass

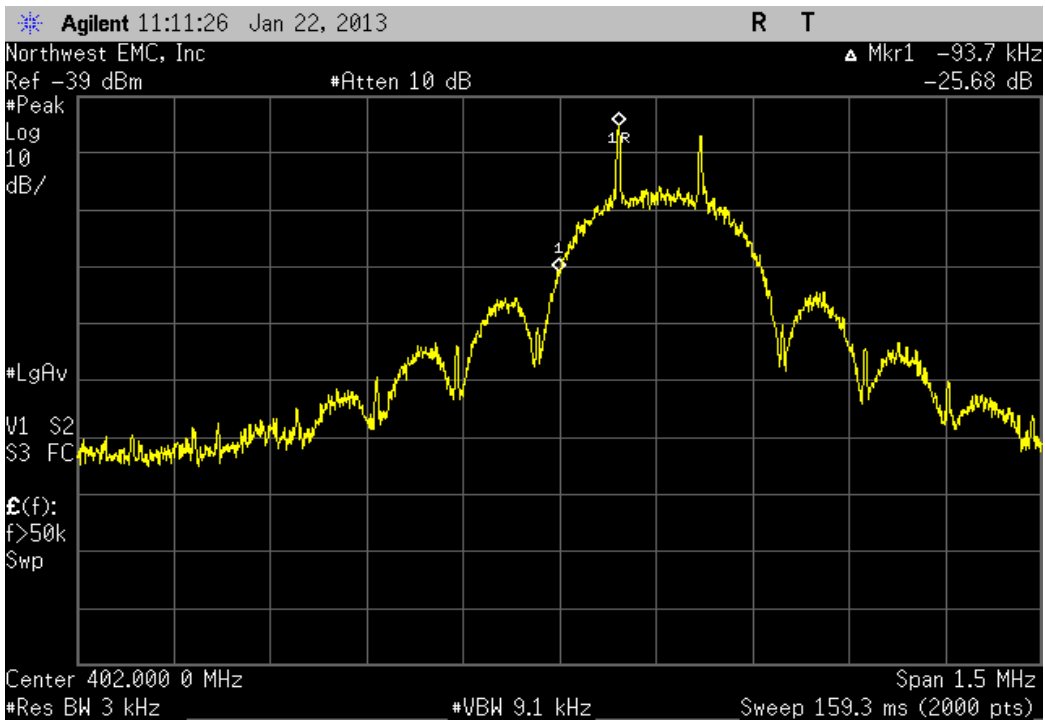
SN: 149154, Low Channel, 402.15 MHz			
	Value	Limit	Result
	-20.27 dBc	≤ -20 dBc	Pass



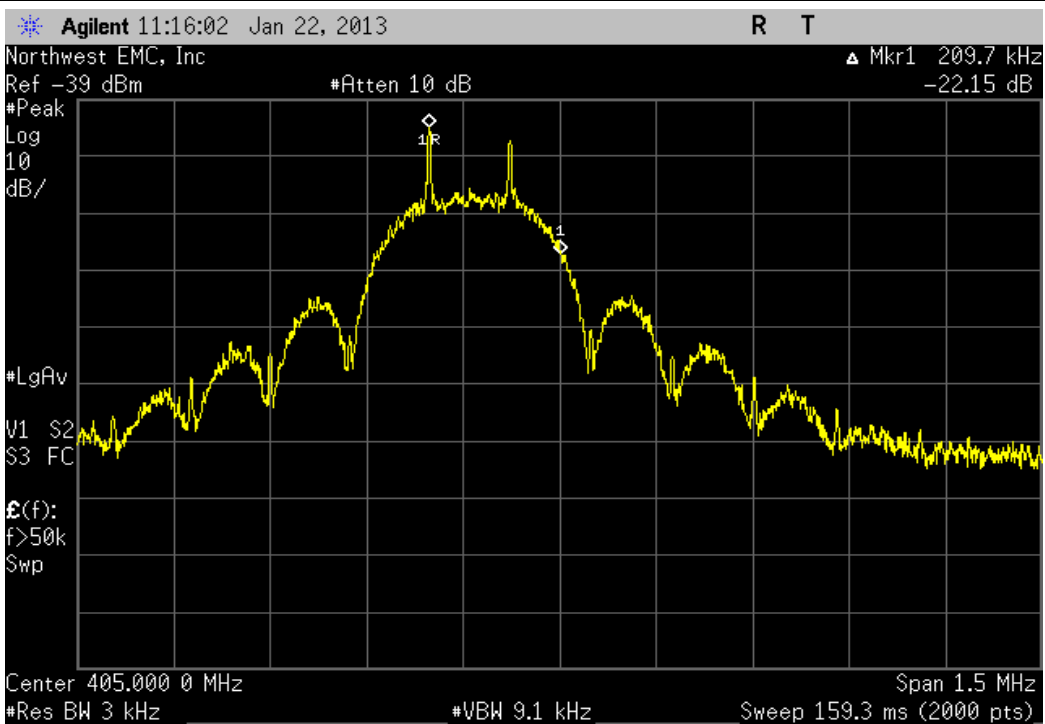
SN: 149154, High Channel, 404.85 MHz			
	Value	Limit	Result
	-22.94 dBc	≤ -20 dBc	Pass



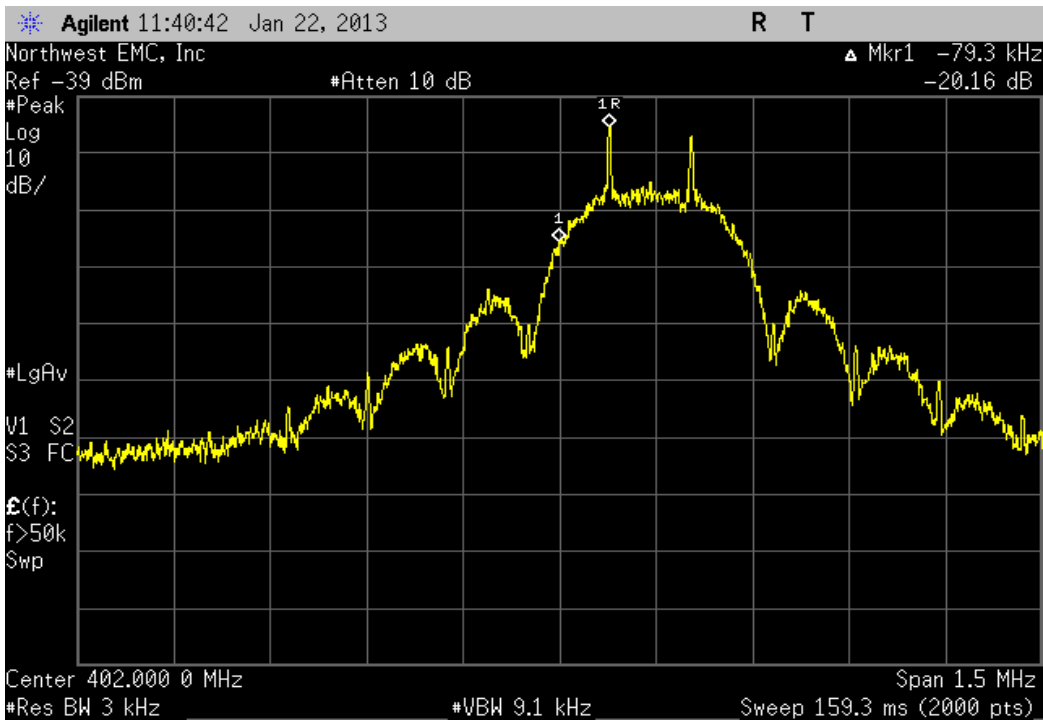
SN: 157301, Low Channel, 402.15 MHz			
	Value	Limit	Result
	-25.68 dBc	≤ -20 dBc	Pass



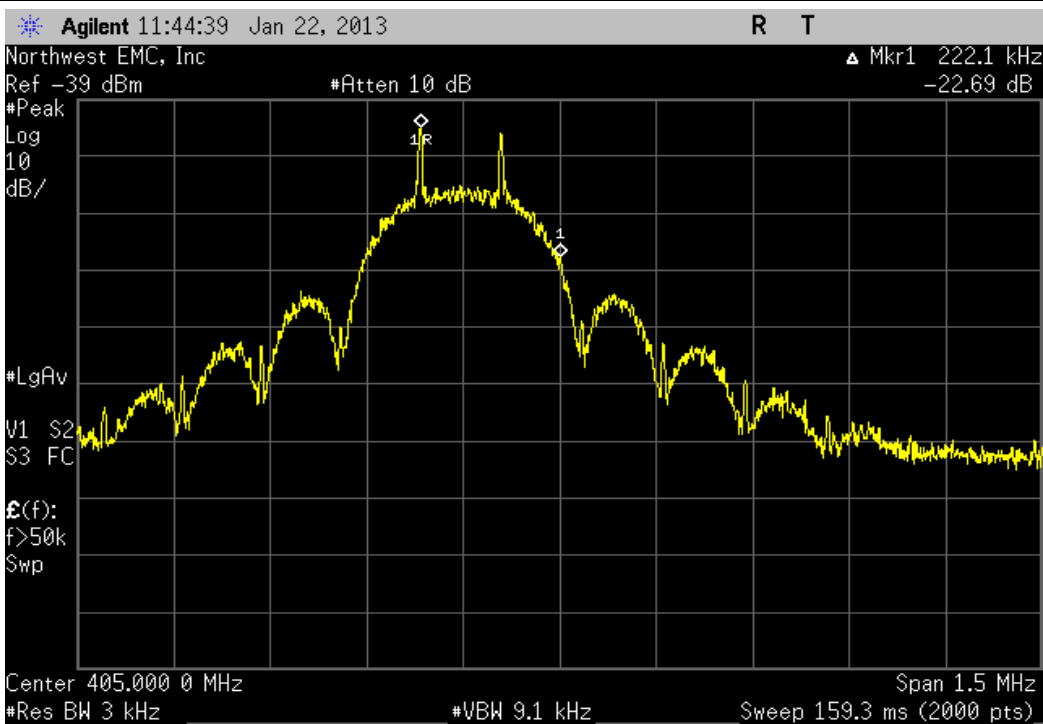
SN: 157301, High Channel, 404.85 MHz			
	Value	Limit	Result
	-22.15 dBc	≤ -20 dBc	Pass



SN: 157403, Low Channel, 402.15 MHz			
	Value	Limit	Result
	-20.16 dBc	≤ -20 dBc	Pass



SN: 157403, High Channel, 404.85 MHz			
	Value	Limit	Result
	-22.69 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
Near Field Probe Set	ETS	7405	IPO	NCR	0
Spectrum Analyzer	Agilent	E4440A	AAX	5/15/2012	24

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

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 2012.09.20
PsaTx 2013.01.10

EUT: Autogen NG3	Work Order: BSTN0405
Serial Number: 149154, 157301,157403	Date: 01/22/13
Customer: Boston Scientific Corporation	Temperature: 24.6°C
Attendees: Daniel Landherr	Humidity: 11%
Project: None	Barometric Pres.: 1031.7
Tested by: Trevor Buls	Power: Battery
	Job Site: MN08

TEST SPECIFICATIONS		Test Method	
FCC 95:2013		ANSI/TIA/EIA-603-C-2004	

COMMENTS

None

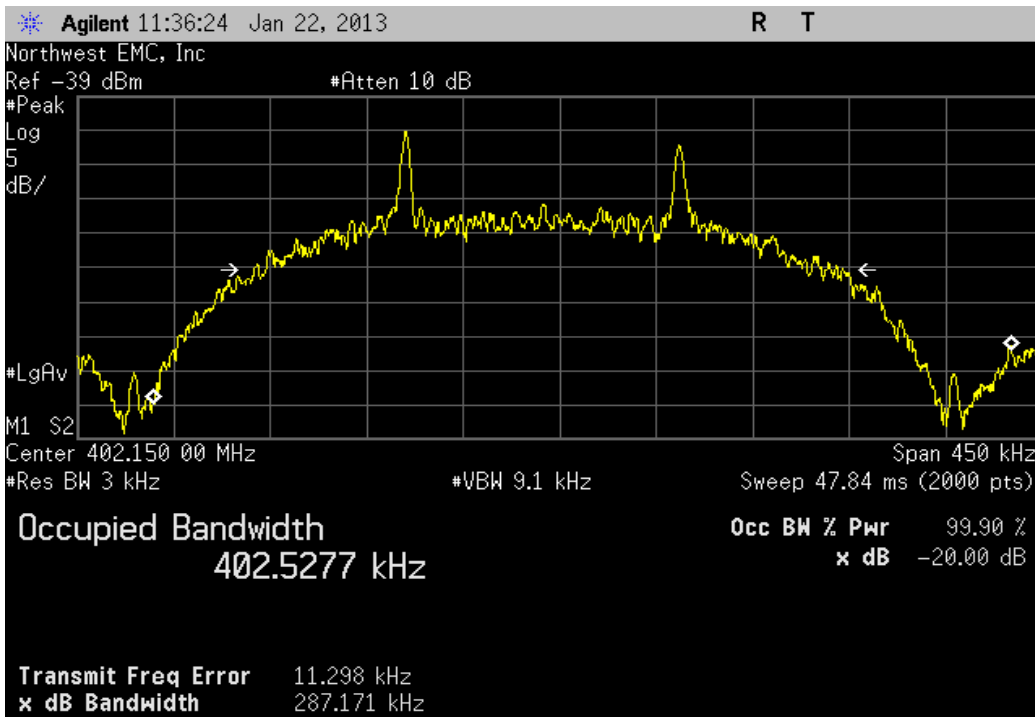
DEVIATIONS FROM TEST STANDARD

None

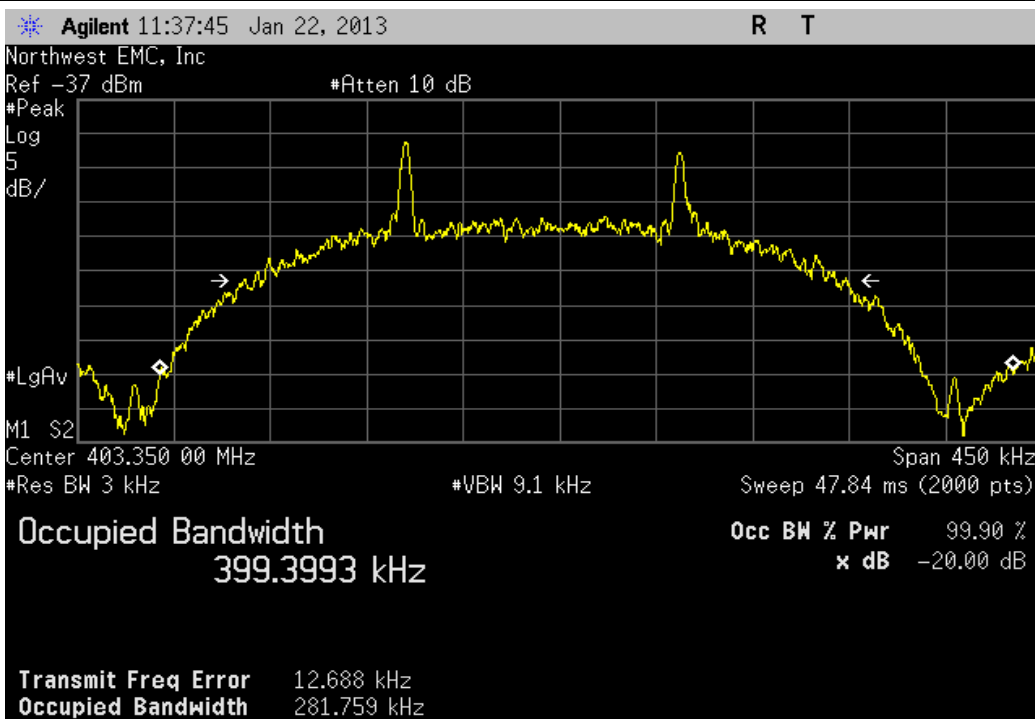
Configuration #	1,2,3	Signature	<i>Trevor Buls</i>
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		Value	Limit	Result
SN: 149154	Low Channel, 402.15 MHz	287.171 kHz	≤ 300 kHz	Pass
	Mid Channel, 403.35 MHz	281.759 kHz	≤ 300 kHz	Pass
	High Channel, 404.85 MHz	282.912 kHz	≤ 300 kHz	Pass
SN: 157301	Low Channel, 402.15 MHz	282.319 kHz	≤ 300 kHz	Pass
	Mid Channel, 403.35 MHz	282.685 kHz	≤ 300 kHz	Pass
	High Channel, 404.85 MHz	279.65 kHz	≤ 300 kHz	Pass
SN: 157403	Low Channel, 402.15 MHz	280.885 kHz	≤ 300 kHz	Pass
	Mid Channel, 403.35 MHz	283.142 kHz	≤ 300 kHz	Pass
	High Channel, 404.85 MHz	280.194 kHz	≤ 300 kHz	Pass

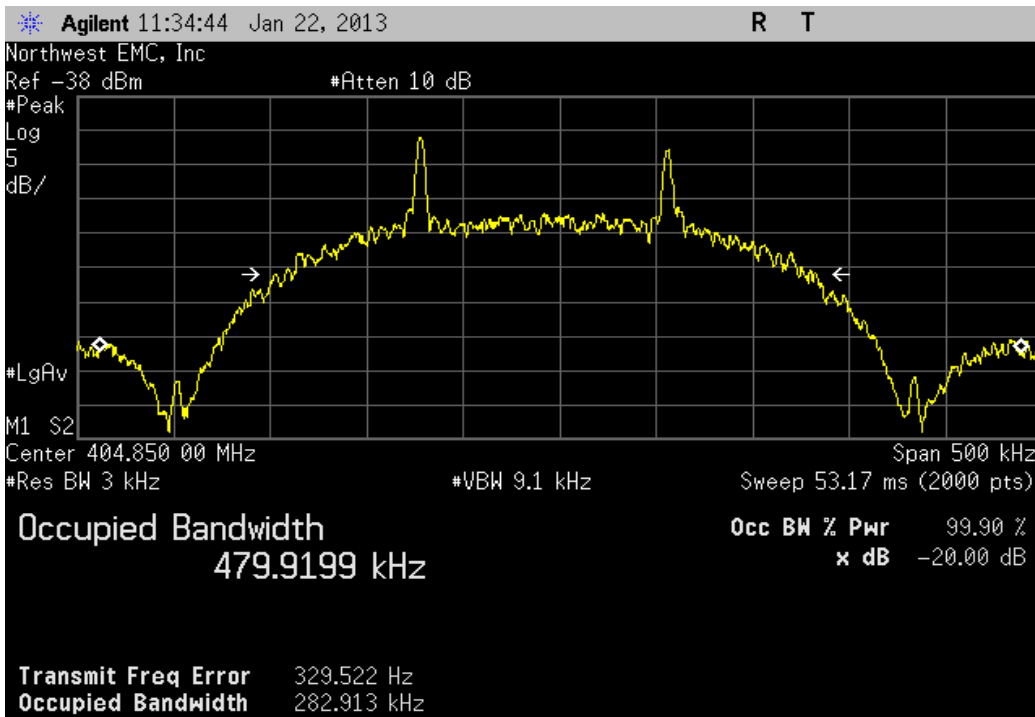
SN: 149154, Low Channel, 402.15 MHz				
		Value	Limit	Result
		287.171 kHz	≤ 300 kHz	Pass



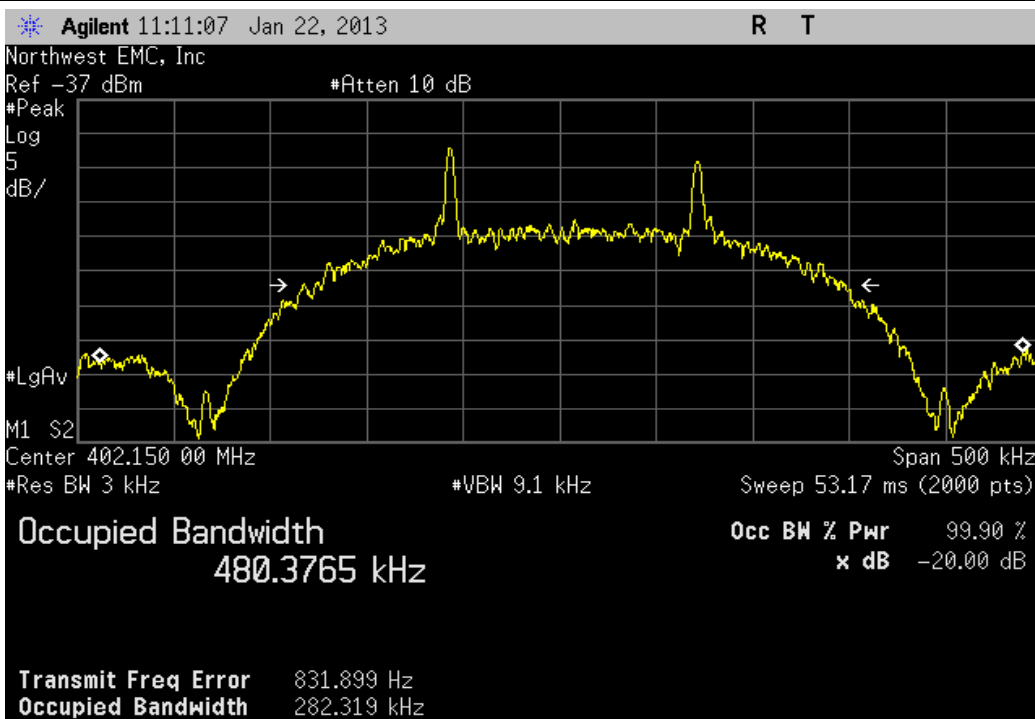
SN: 149154, Mid Channel, 403.35 MHz				
		Value	Limit	Result
		281.759 kHz	≤ 300 kHz	Pass



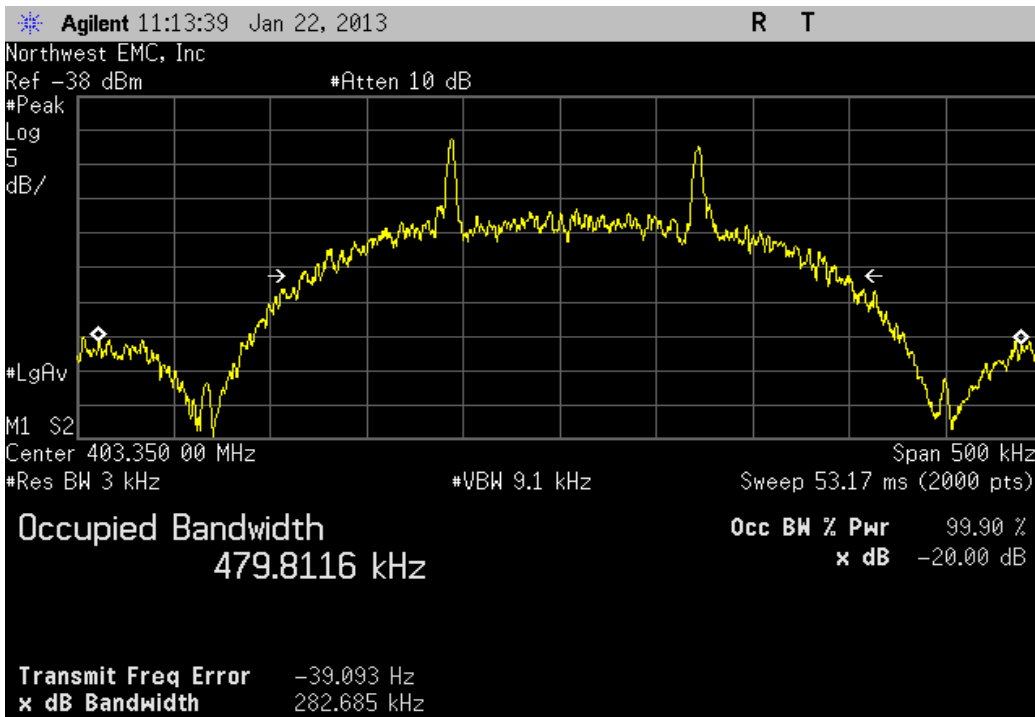
SN: 149154, High Channel, 404.85 MHz			
	Value	Limit	Result
	282.912 kHz	≤ 300 kHz	Pass



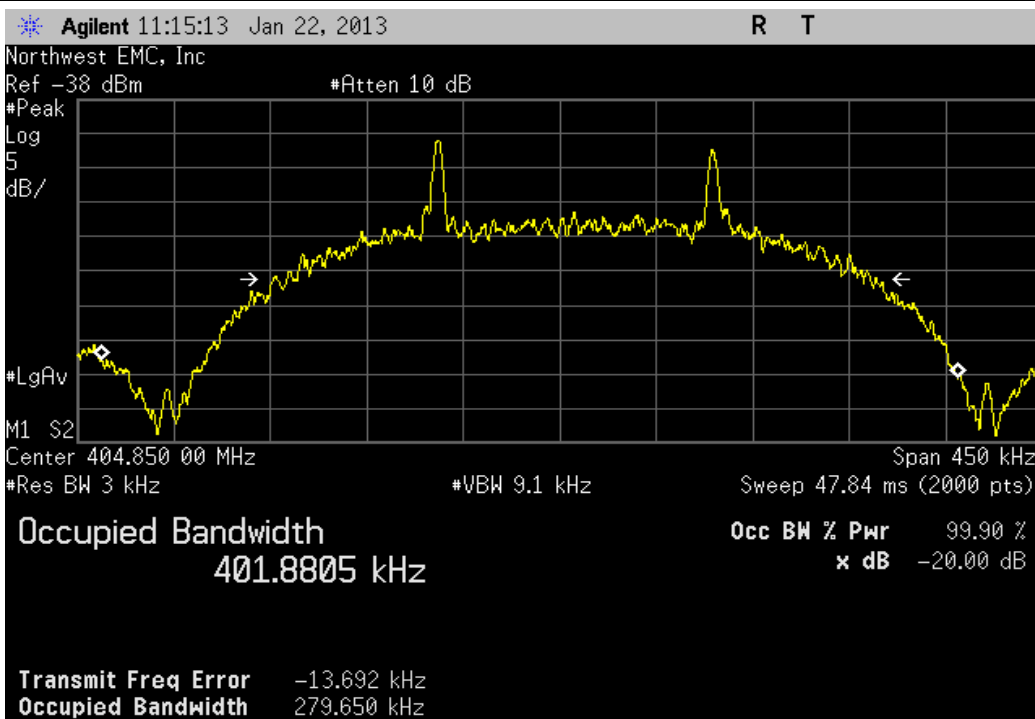
SN: 157301, Low Channel, 402.15 MHz			
	Value	Limit	Result
	282.319 kHz	≤ 300 kHz	Pass



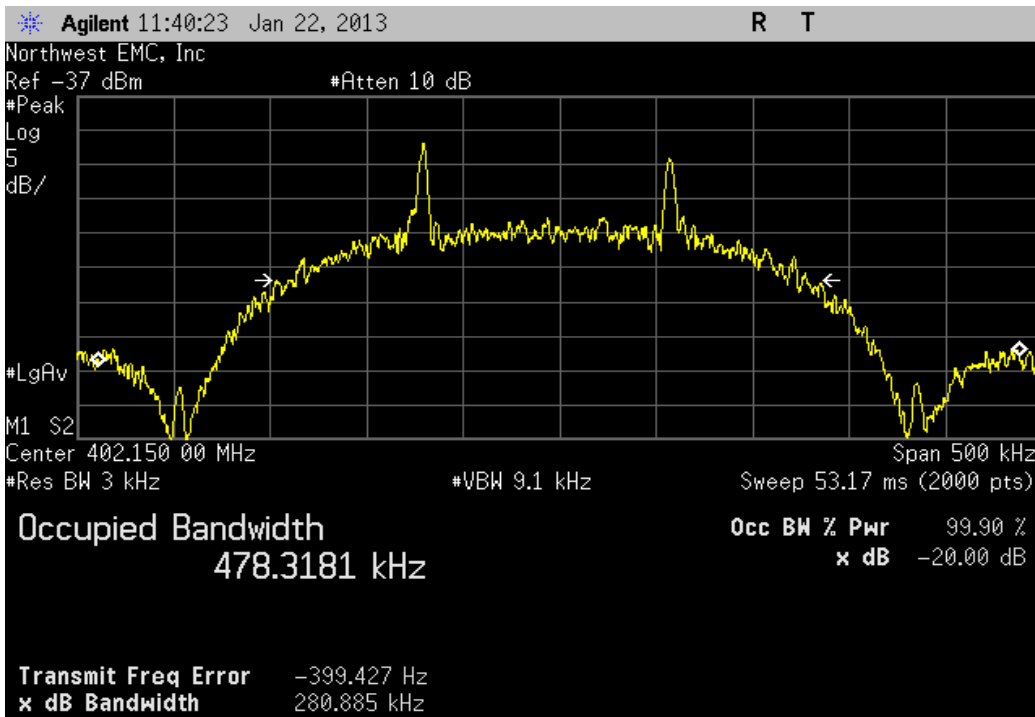
SN: 157301, Mid Channel, 403.35 MHz			
	Value	Limit	Result
	282.685 kHz	≤ 300 kHz	Pass



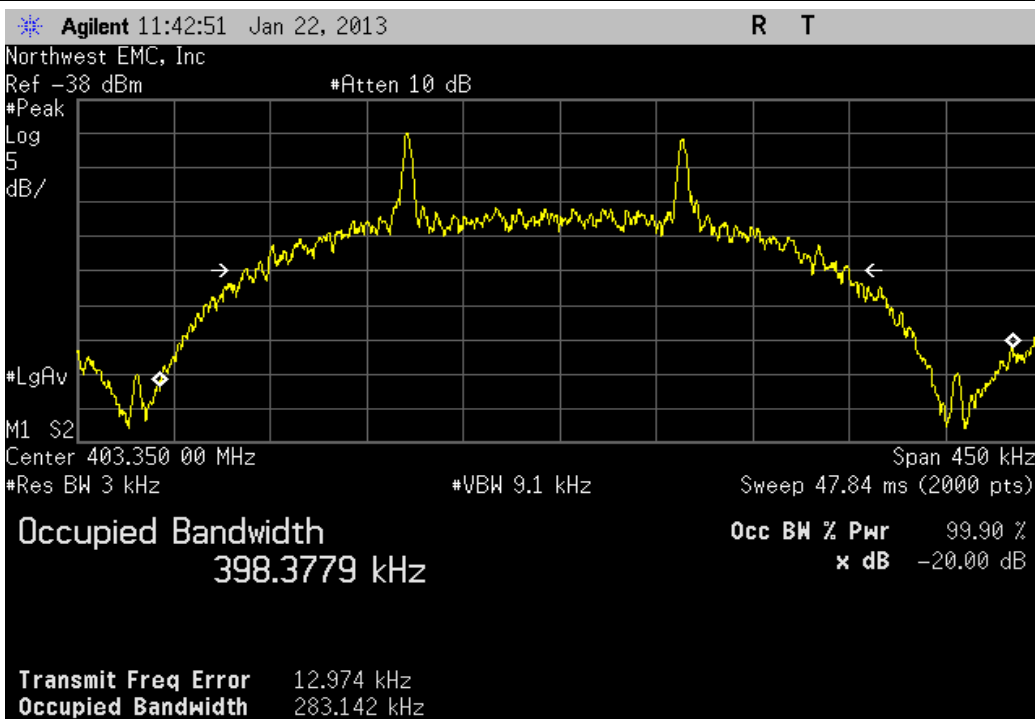
SN: 157301, High Channel, 404.85 MHz			
	Value	Limit	Result
	279.65 kHz	≤ 300 kHz	Pass



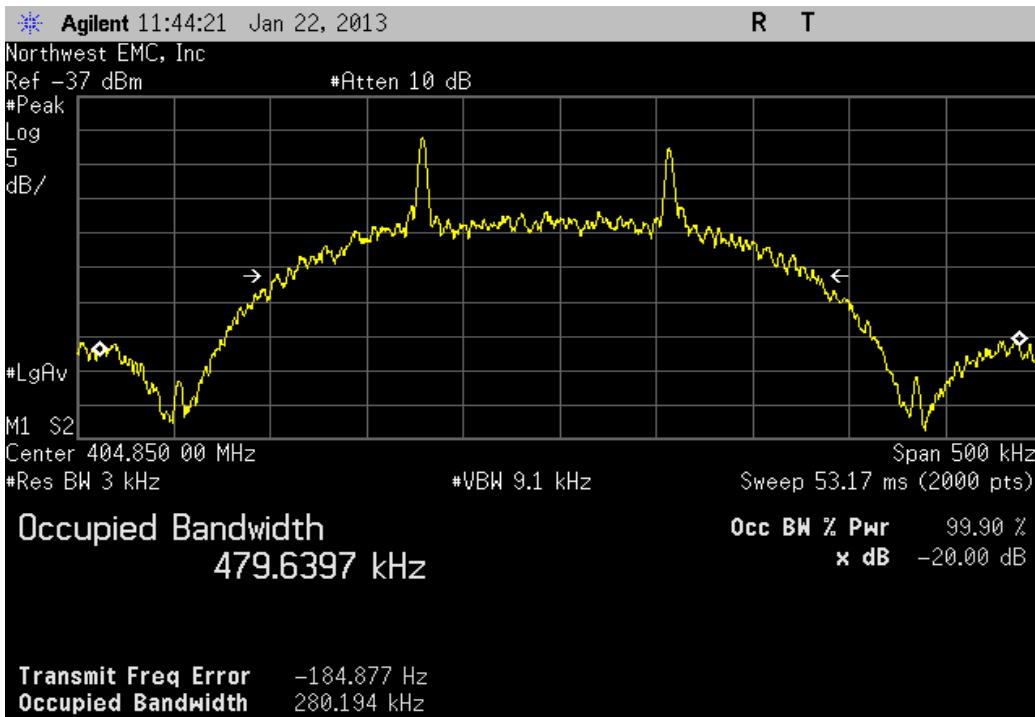
SN: 157403, Low Channel, 402.15 MHz			
	Value	Limit	Result
	280.885 kHz	≤ 300 kHz	Pass



SN: 157403, Mid Channel, 403.35 MHz			
	Value	Limit	Result
	283.142 kHz	≤ 300 kHz	Pass



SN: 157403, High Channel, 404.85 MHz			
	Value	Limit	Result
	280.194 kHz	≤ 300 kHz	Pass



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
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/5/2012	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/19/2012	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	E4440A	AAX	5/15/2012	24
Multimeter	Fluke	117	MNN	2/3/2012	24
DC Power Supply	EZ Digital Co	GP-4303D	TPY	NCR	0
Humidity Temperature Meter	Omega Engineering, Inc.	HH31	DUB	10/25/2011	24
Temp./Humidity Chamber	Cincinnati Sub Zero (CSZ)	ZPH-32-3.5-SCT/AC	TBF	NCR	0

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

Variation of Supply Voltage

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

Variation of Ambient Temperature

Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range (+25°, 37°C and +45° C).

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.



Frequency Stability

XMit 2012.09.20
PsaTx 2013.01.10

EUT: Autogen NG3	Work Order: BSTN0405
Serial Number: 41265571, 41265564, 41265511	Date: 01/30/13
Customer: Boston Scientific Corporation	Temperature: 24.6°C
Attendees: Iliani Gueron	Humidity: 11%
Project: None	Barometric Pres.: 1031.7
Tested by: Johnathan Lee	Power: Battery
	Job Site: MN08

TEST SPECIFICATIONS	Test Method
FCC 95:2013	ANSI/TIA/EIA-603-C-2004

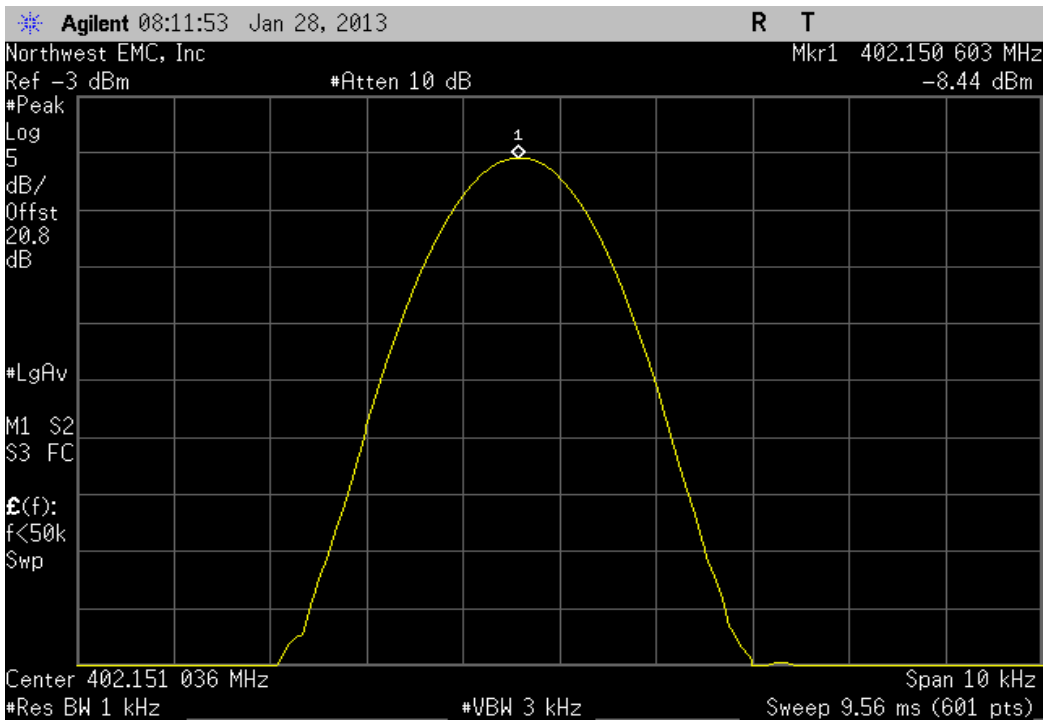
COMMENTS
None

DEVIATIONS FROM TEST STANDARD
None

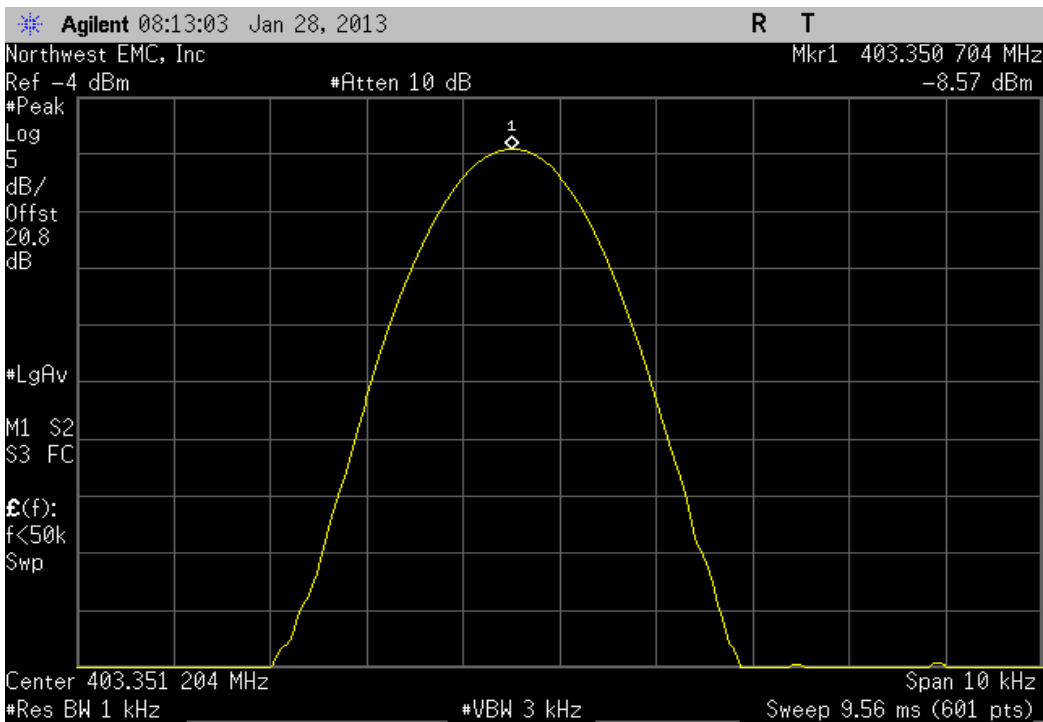
Configuration #	4, 5, 6	Signature 
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	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
SN 41265571					
Nominal Voltage +3VDC					
Low Channel, 402.15 MHz	402.150603	402.15	1.5	100	Pass
Mid Channel, 403.35 MHz	403.350704	403.35	1.8	100	Pass
High Channel, 404.85 MHz	404.850454	404.85	1.1	100	Pass
Extreme Voltage +3.45VDC					
Low Channel, 402.15 MHz	402.150553	402.15	1.4	100	Pass
Mid Channel, 403.35 MHz	403.350687	403.35	1.7	100	Pass
High Channel, 404.85 MHz	404.850438	404.85	1.1	100	Pass
Extreme Voltage +2.55VDC					
Low Channel, 402.15 MHz	402.150536	402.15	1.3	100	Pass
Mid Channel, 403.35 MHz	403.350654	403.35	1.6	100	Pass
High Channel, 404.85 MHz	404.850421	404.85	1	100	Pass
Extreme Temperature +45 Degrees C					
Low Channel, 402.15 MHz	402.148082	402.15	4.8	100	Pass
Mid Channel, 403.35 MHz	403.3482	403.35	4.5	100	Pass
High Channel, 404.85 MHz	404.847966	404.85	5	100	Pass
Extreme Temperature +35 Degrees C					
Low Channel, 402.15 MHz	402.148833	402.15	2.9	100	Pass
Mid Channel, 403.35 MHz	403.348968	403.35	2.6	100	Pass
High Channel, 404.85 MHz	404.847717	404.85	3.2	100	Pass
Extreme Temperature +25 Degrees C					
Low Channel, 402.15 MHz	402.150419	402.15	1	100	Pass
Mid Channel, 403.35 MHz	403.350504	403.35	1.2	100	Pass
High Channel, 404.85 MHz	404.850321	404.85	0.8	100	Pass
SN 41265564					
Nominal Voltage +3VDC					
Low Channel, 402.15 MHz	402.154541	402.15	11.3	100	Pass
Mid Channel, 403.35 MHz	403.354645	403.35	11.5	100	Pass
High Channel, 404.85 MHz	404.85443	404.85	10.9	100	Pass
Extreme Voltage +3.45VDC					
Low Channel, 402.15 MHz	402.154492	402.15	11.2	100	Pass
Mid Channel, 403.35 MHz	403.354626	403.35	11.5	100	Pass
High Channel, 404.85 MHz	404.854394	404.85	10.8	100	Pass
Extreme Voltage +2.55VDC					
Low Channel, 402.15 MHz	402.154492	402.15	11.2	100	Pass
Mid Channel, 403.35 MHz	403.354611	403.35	11.4	100	Pass
High Channel, 404.85 MHz	404.854396	404.85	10.9	100	Pass
Extreme Temperature +45 Degrees C					
Low Channel, 402.15 MHz	402.152272	402.15	5.6	100	Pass
Mid Channel, 403.35 MHz	403.352391	403.35	5.9	100	Pass
High Channel, 404.85 MHz	404.852175	404.85	5.4	100	Pass
Extreme Temperature +35 Degrees C					
Low Channel, 402.15 MHz	402.152956	402.15	7.4	100	Pass
Mid Channel, 403.35 MHz	403.353107	403.35	7.7	100	Pass
High Channel, 404.85 MHz	404.852877	404.85	7.1	100	Pass
Extreme Temperature +25 Degrees C					
Low Channel, 402.15 MHz	402.154392	402.15	10.9	100	Pass
Mid Channel, 403.35 MHz	403.354511	403.35	11.2	100	Pass
High Channel, 404.85 MHz	404.854296	404.85	10.6	100	Pass
SN 41265511					
Nominal Voltage +3VDC					
Low Channel, 402.15 MHz	402.154439	402.15	11	100	Pass
Mid Channel, 403.35 MHz	403.354561	403.35	11.3	100	Pass
High Channel, 404.85 MHz	404.854313	404.85	10.6	100	Pass
Extreme Voltage +3.45VDC					
Low Channel, 402.15 MHz	402.154376	402.15	10.9	100	Pass
Mid Channel, 403.35 MHz	403.354511	403.35	11.2	100	Pass
High Channel, 404.85 MHz	404.85428	404.85	10.6	100	Pass
Extreme Voltage +2.55VDC					
Low Channel, 402.15 MHz	402.154342	402.15	10.8	100	Pass
Mid Channel, 403.35 MHz	403.354493	403.35	11.1	100	Pass
High Channel, 404.85 MHz	404.854262	404.85	10.5	100	Pass
Extreme Temperature +45 Degrees C					
Low Channel, 402.15 MHz	402.152189	402.15	5.4	100	Pass
Mid Channel, 403.35 MHz	403.352324	403.35	5.8	100	Pass
High Channel, 404.85 MHz	404.852109	404.85	5.2	100	Pass
Extreme Temperature +35 Degrees C					
Low Channel, 402.15 MHz	402.15289	402.15	7.2	100	Pass
Mid Channel, 403.35 MHz	403.353025	403.35	7.5	100	Pass
High Channel, 404.85 MHz	404.852776	404.85	6.9	100	Pass
Extreme Temperature +25 Degrees C					
Low Channel, 402.15 MHz	402.154476	402.15	11.1	100	Pass
Mid Channel, 403.35 MHz	403.354611	403.35	11.4	100	Pass
High Channel, 404.85 MHz	404.854379	404.85	10.8	100	Pass

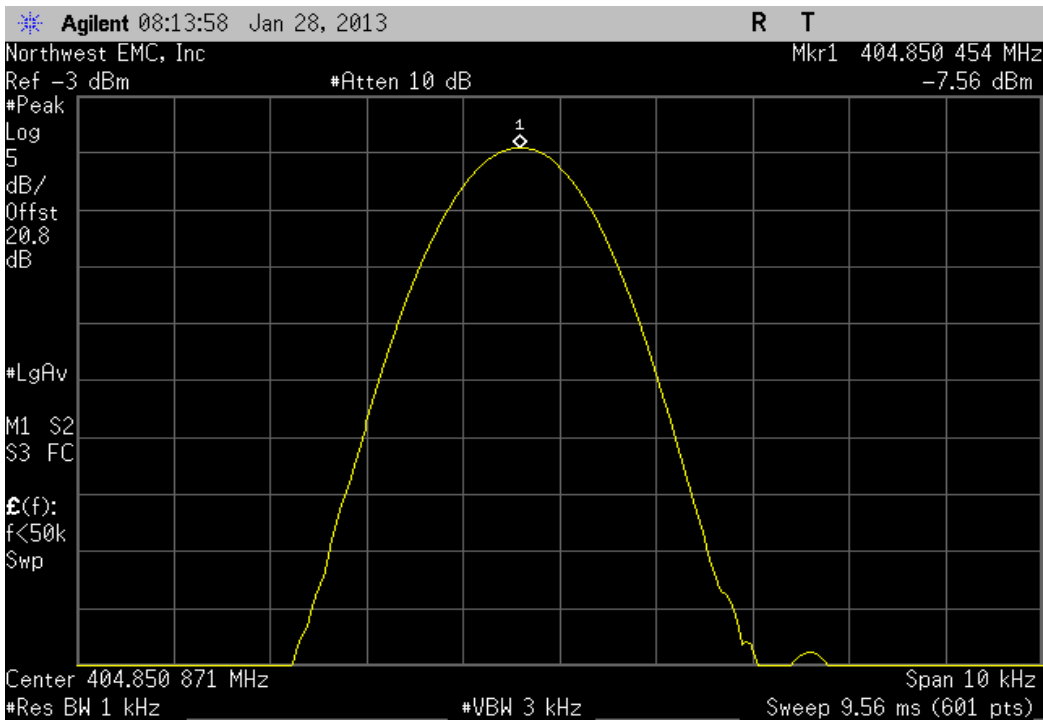
SN 41265571, Nominal Voltage +3VDC, Low Channel, 402.15 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
402.150603	402.15	1.5	100	Pass	



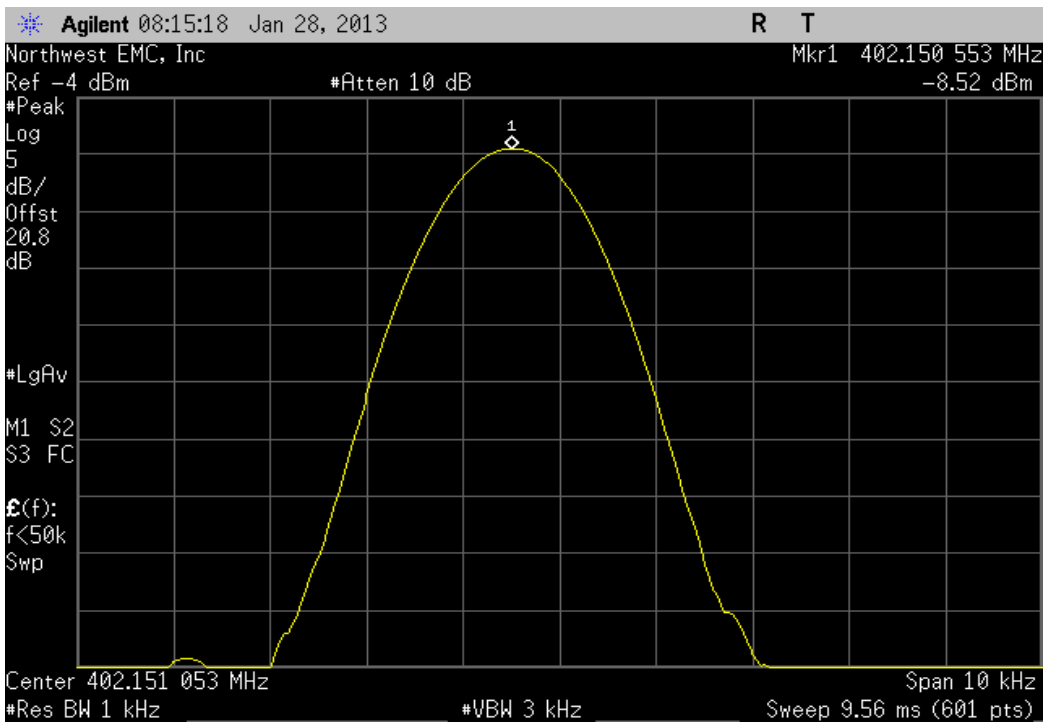
SN 41265571, Nominal Voltage +3VDC, Mid Channel, 403.35 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
403.350704	403.35	1.8	100	Pass	



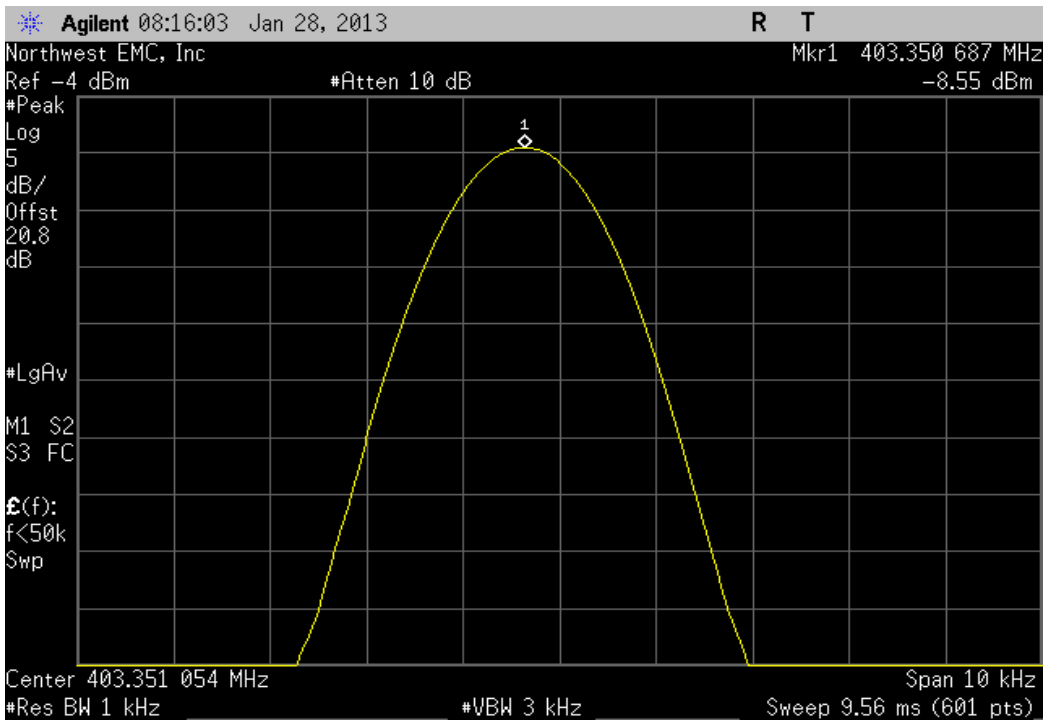
SN 41265571, Nominal Voltage +3VDC, High Channel, 404.85 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	404.850454	404.85	1.1	100	Pass	



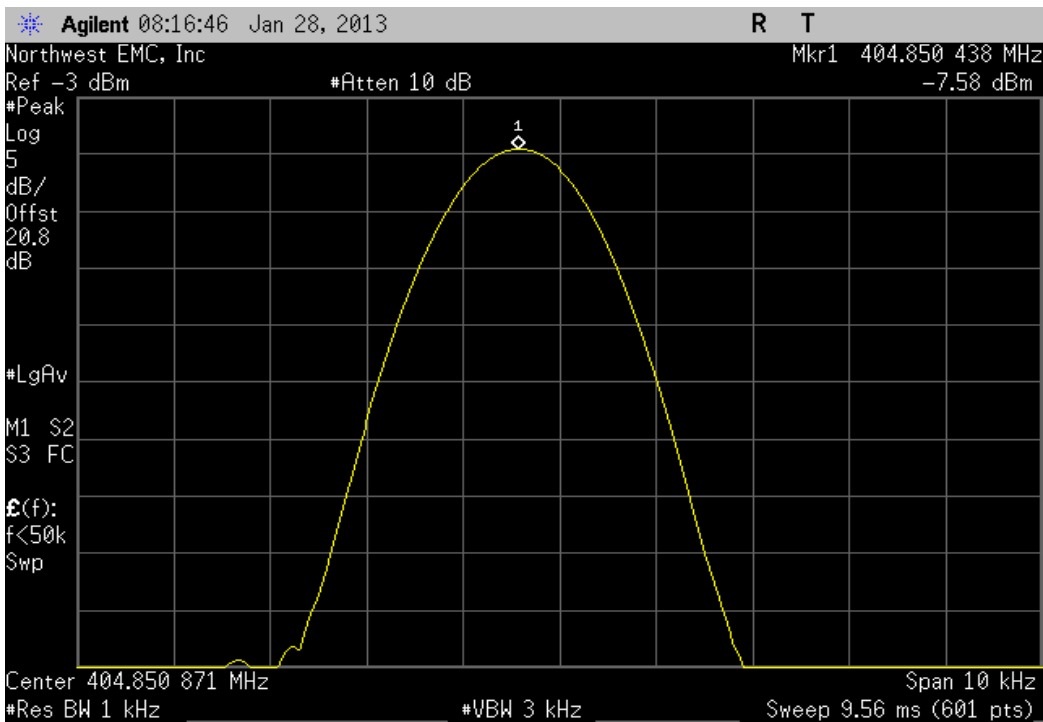
SN 41265571, Extreme Voltage +3.45VDC, Low Channel, 402.15 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	402.150553	402.15	1.4	100	Pass	



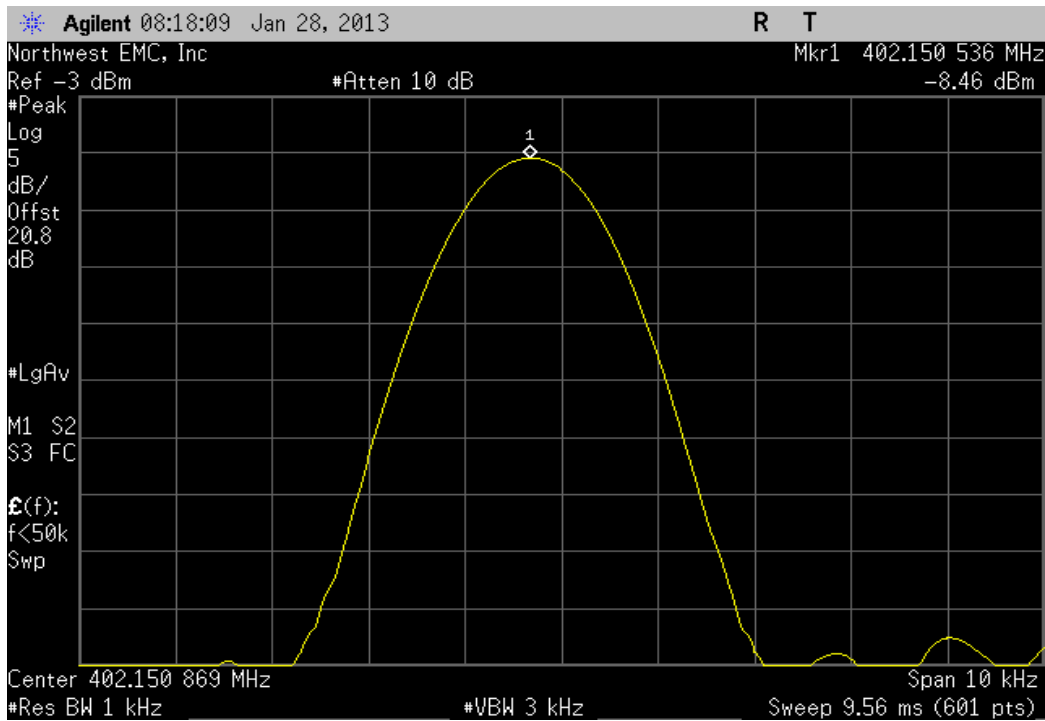
SN 41265571, Extreme Voltage +3.45VDC, Mid Channel, 403.35 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
403.350687	403.35	1.7	100	Pass	



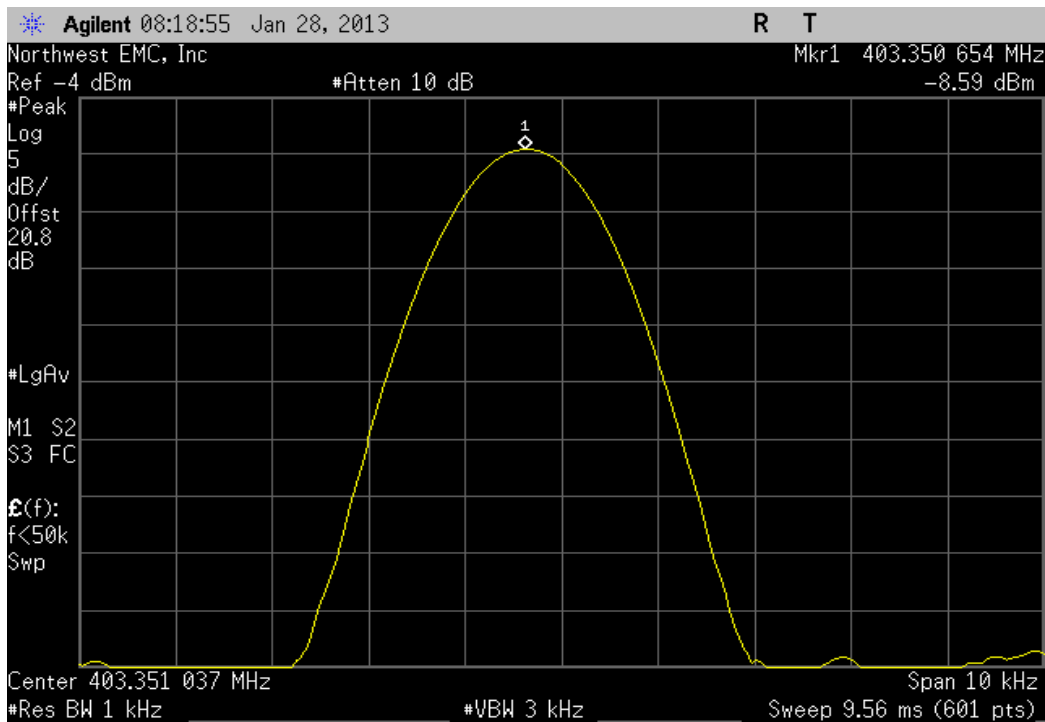
SN 41265571, Extreme Voltage +3.45VDC, High Channel, 404.85 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
404.850438	404.85	1.1	100	Pass	



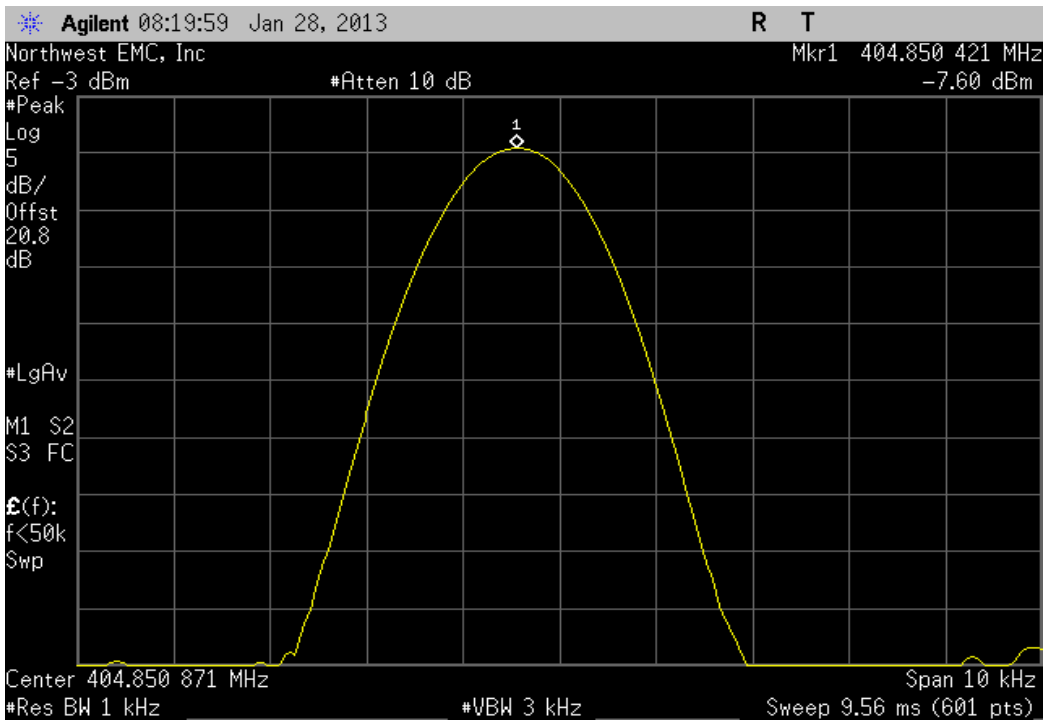
SN 41265571, Extreme Voltage +2.55VDC, Low Channel, 402.15 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
402.150536	402.15	1.3	100	Pass	



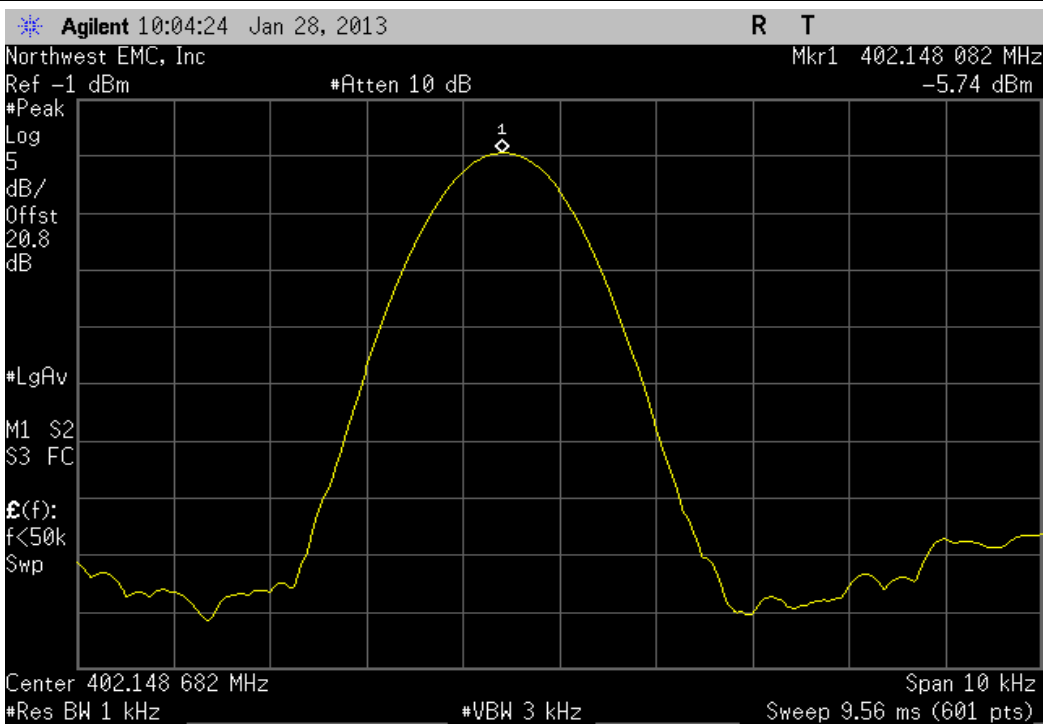
SN 41265571, Extreme Voltage +2.55VDC, Mid Channel, 403.35 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
403.350654	403.35	1.6	100	Pass	



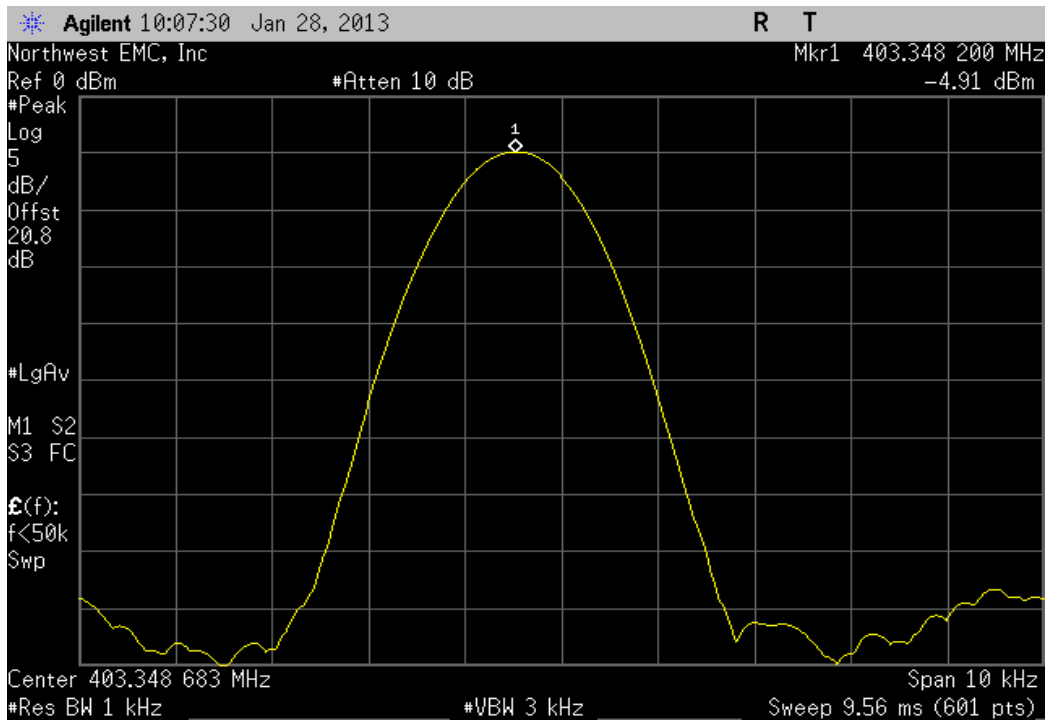
SN 41265571, Extreme Voltage +2.55VDC, High Channel, 404.85 MHz						
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result		
404.850421	404.85	1	100	Pass		



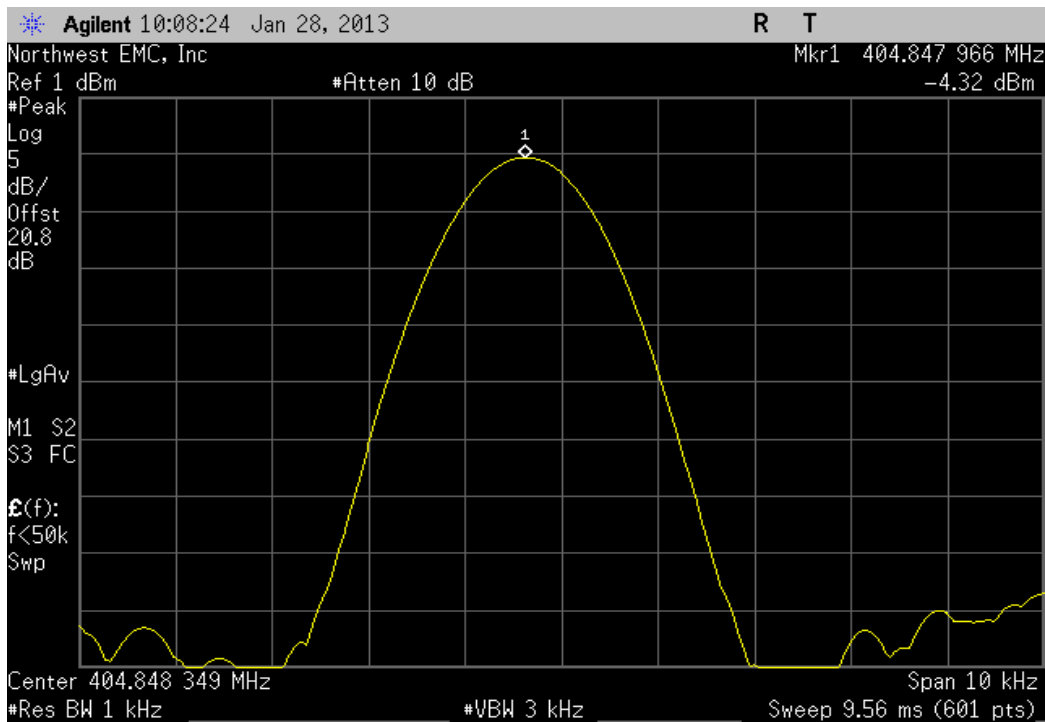
SN 41265571, Extreme Temperature +45 Degrees C, Low Channel, 402.15 MHz						
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result		
402.148082	402.15	4.8	100	Pass		



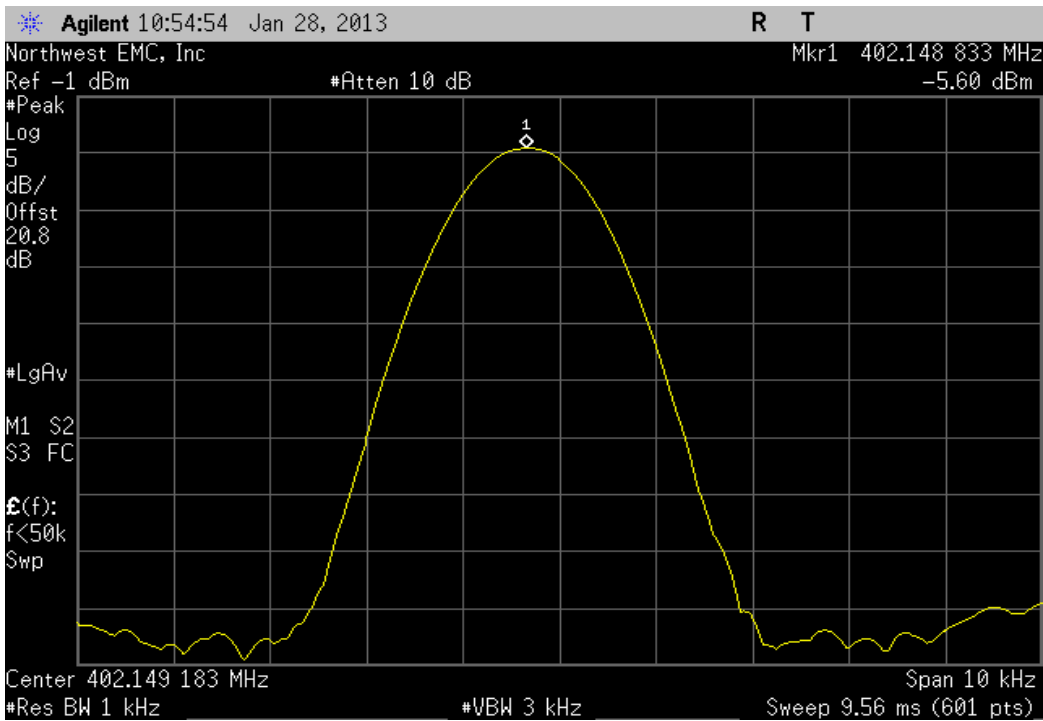
SN 41265571, Extreme Temperature +45 Degrees C, Mid Channel, 403.35 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	403.3482	403.35	4.5	100	Pass	



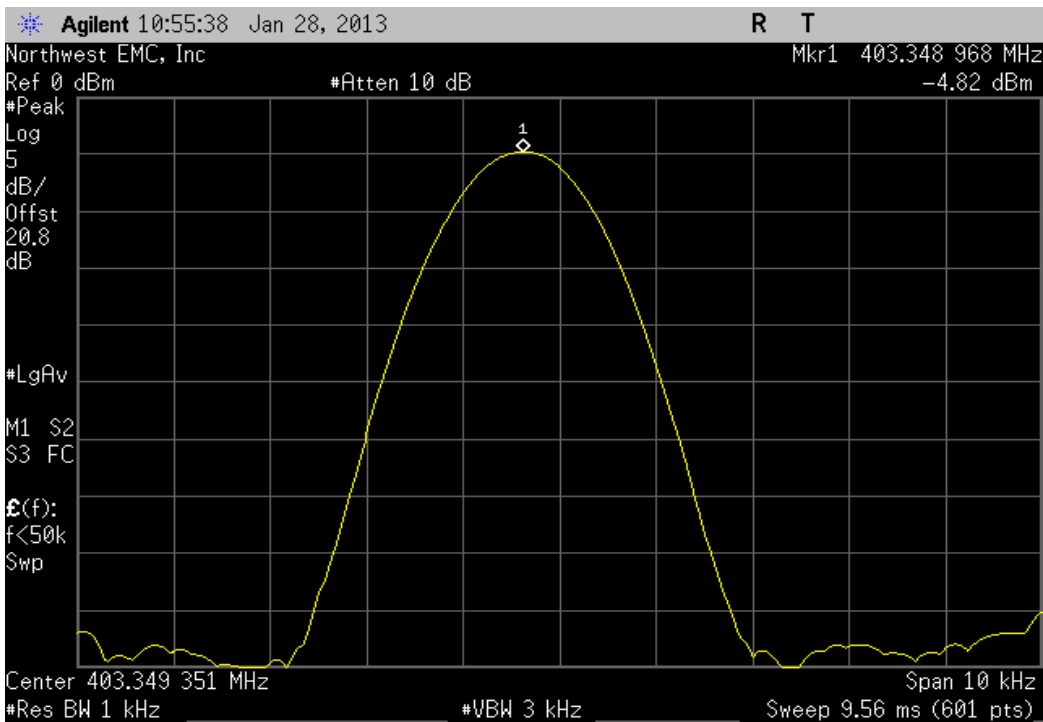
SN 41265571, Extreme Temperature +45 Degrees C, High Channel, 404.85 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	404.847966	404.85	5	100	Pass	



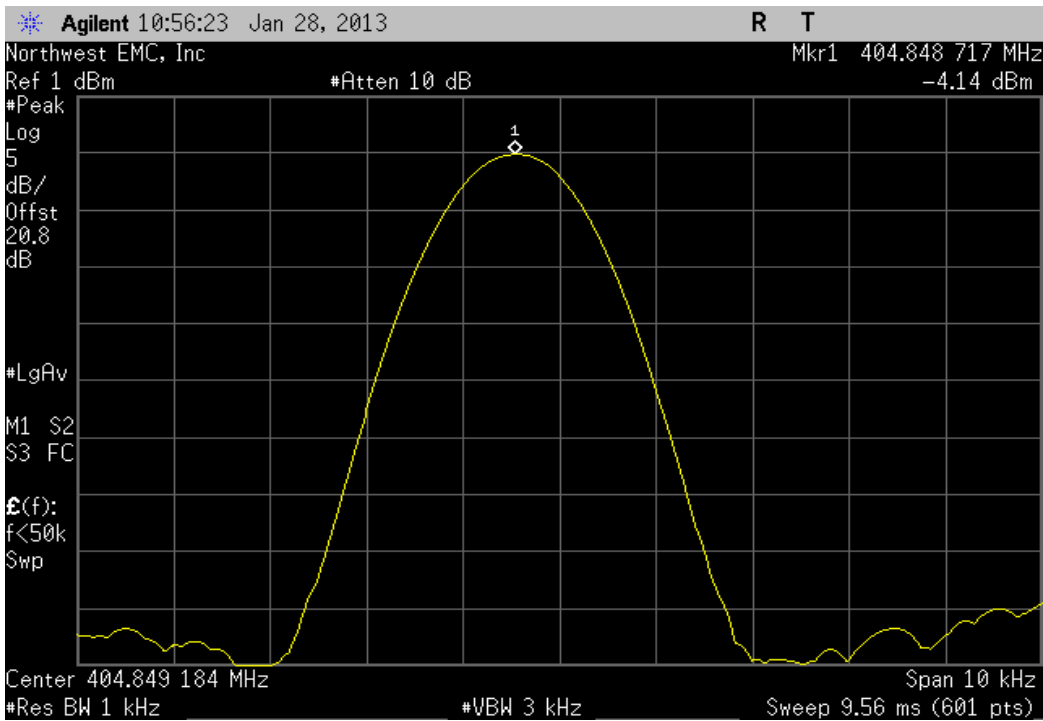
SN 41265571, Extreme Temperature +35 Degrees C, Low Channel, 402.15 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	402.148833	402.15	2.9	100	Pass	



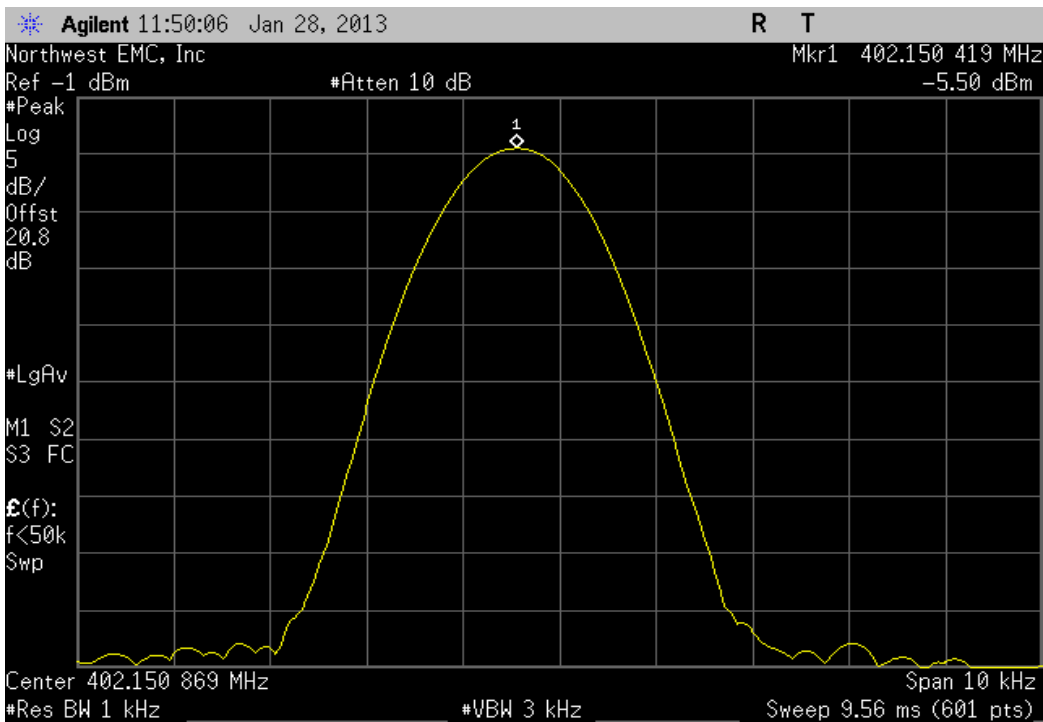
SN 41265571, Extreme Temperature +35 Degrees C, Mid Channel, 403.35 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	403.348968	403.35	2.6	100	Pass	



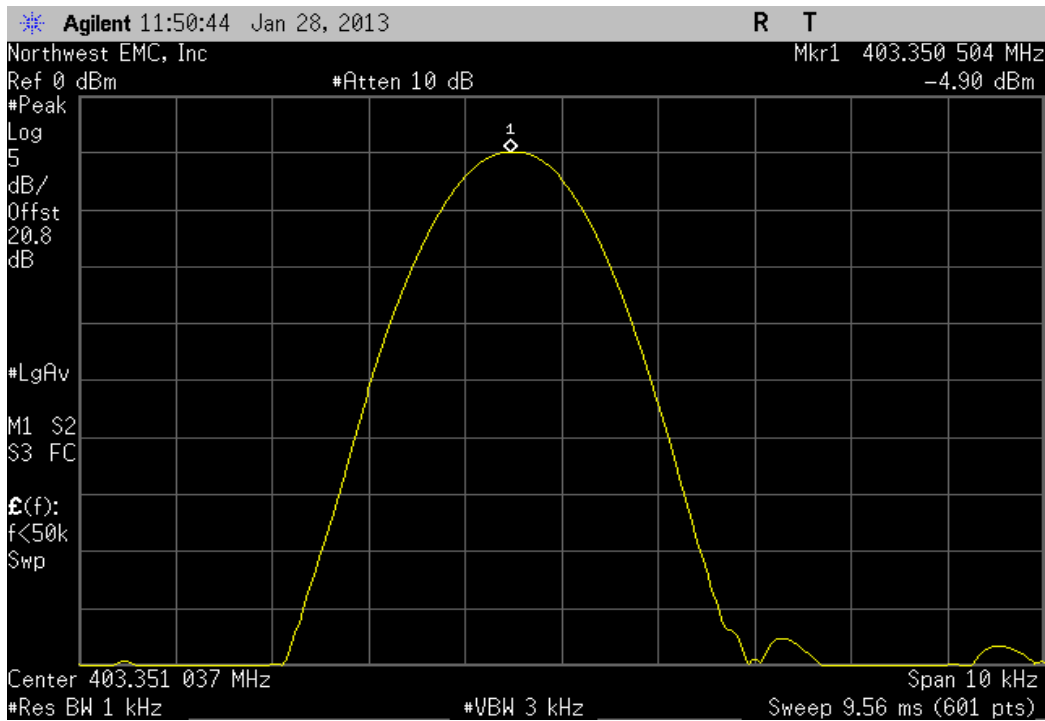
SN 41265571, Extreme Temperature +35 Degrees C, High Channel, 404.85 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
404.848717	404.85	3.2	100	Pass	



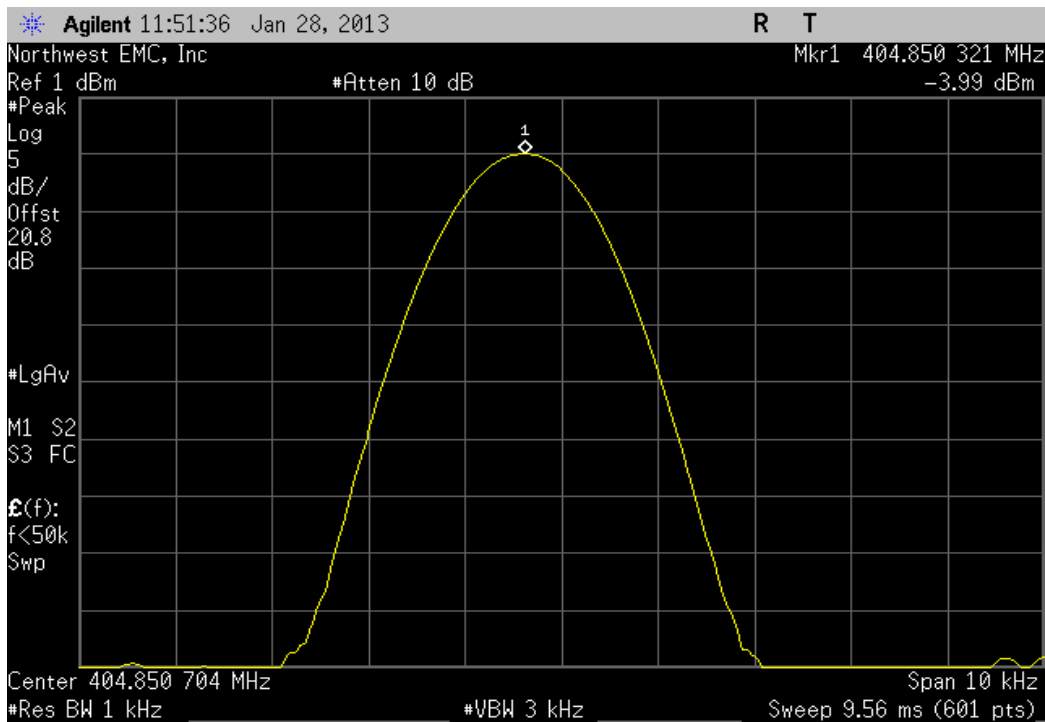
SN 41265571, Extreme Temperature +25 Degrees C, Low Channel, 402.15 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
402.150419	402.15	1	100	Pass	



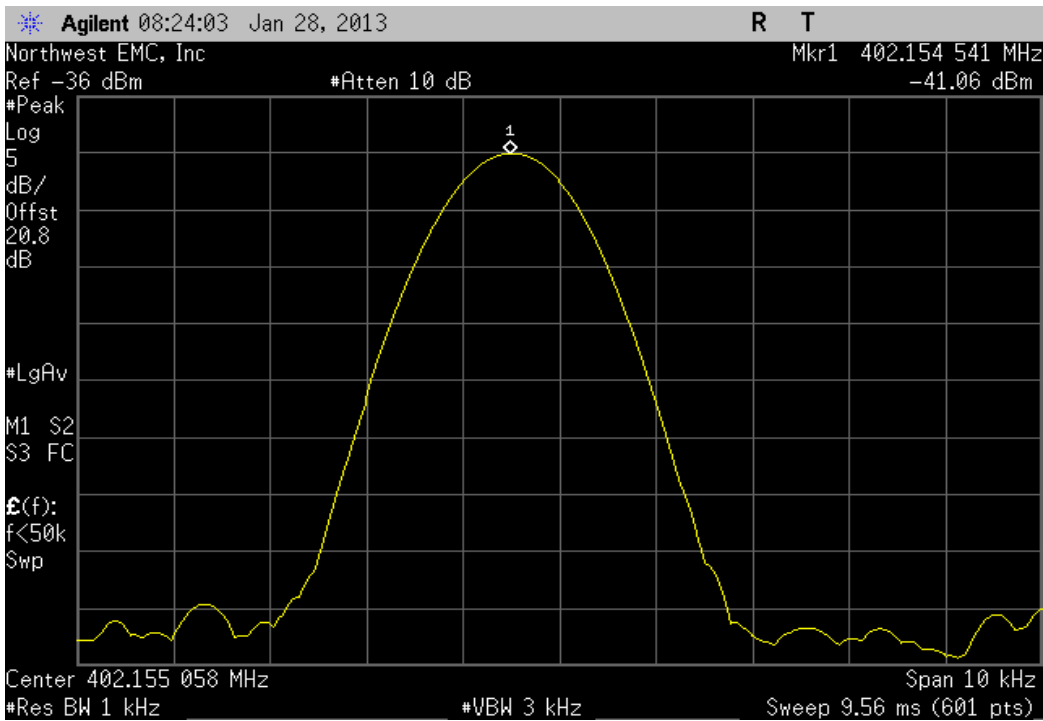
SN 41265571, Extreme Temperature +25 Degrees C, Mid Channel, 403.35 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	403.350504	403.35	1.2	100	Pass	



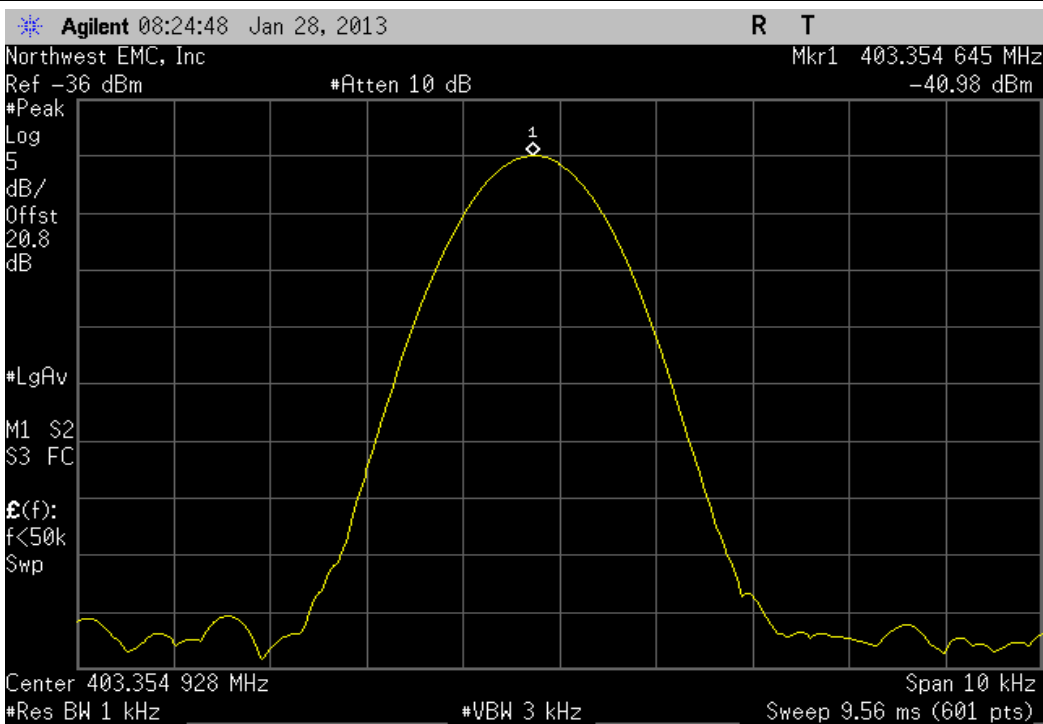
SN 41265571, Extreme Temperature +25 Degrees C, High Channel, 404.85 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	404.850321	404.85	0.8	100	Pass	



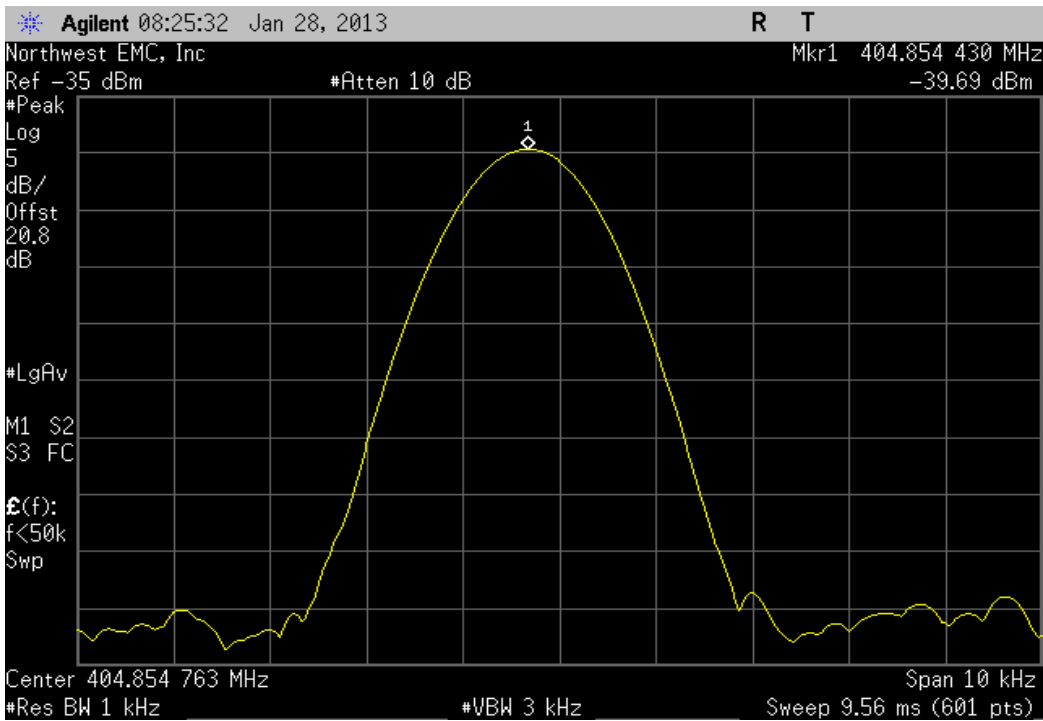
SN 41265564, Nominal Voltage +3VDC, Low Channel, 402.15 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
402.154541	402.15	11.3	100	Pass	



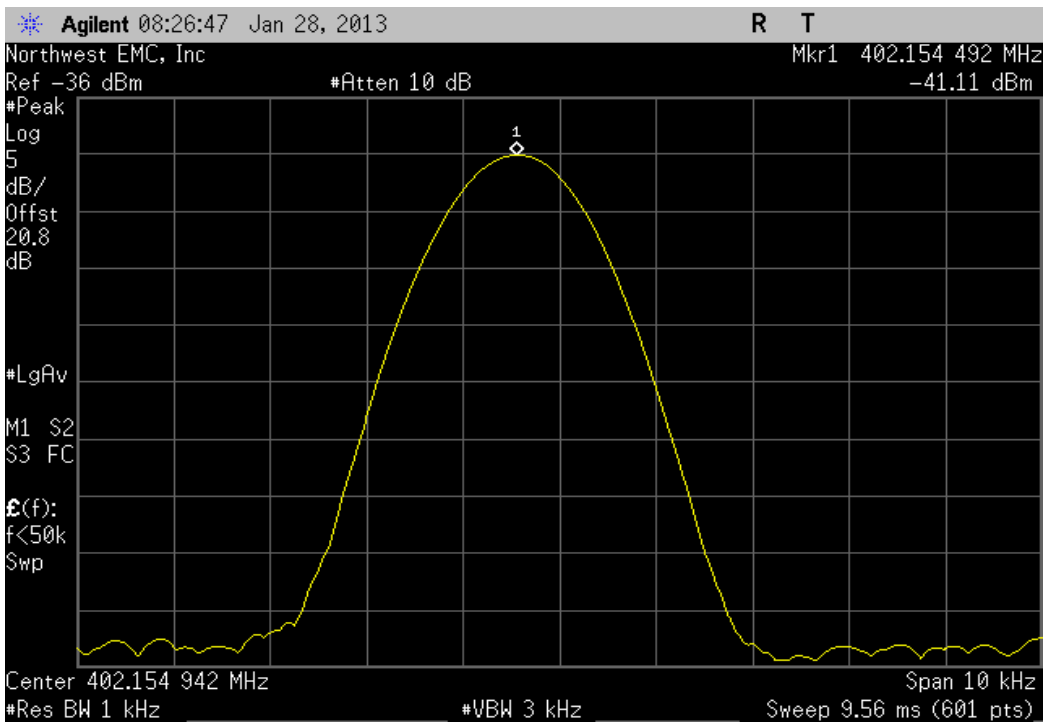
SN 41265564, Nominal Voltage +3VDC, Mid Channel, 403.35 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
403.354645	403.35	11.5	100	Pass	



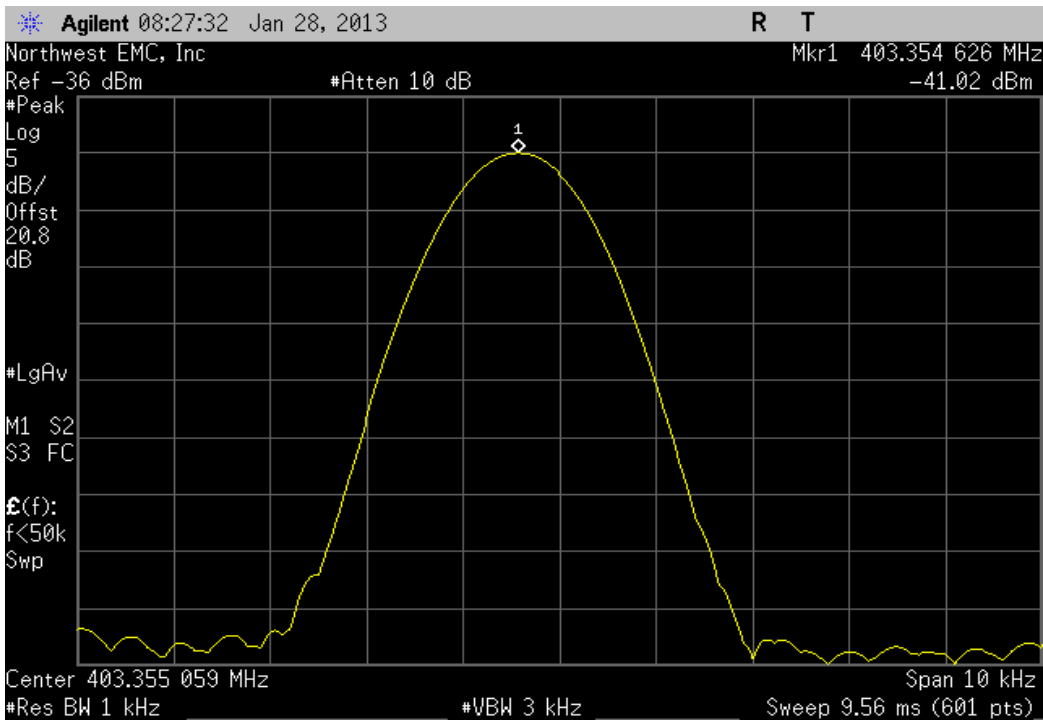
SN 41265564, Nominal Voltage +3VDC, High Channel, 404.85 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
404.85443	404.85	10.9	100	Pass	



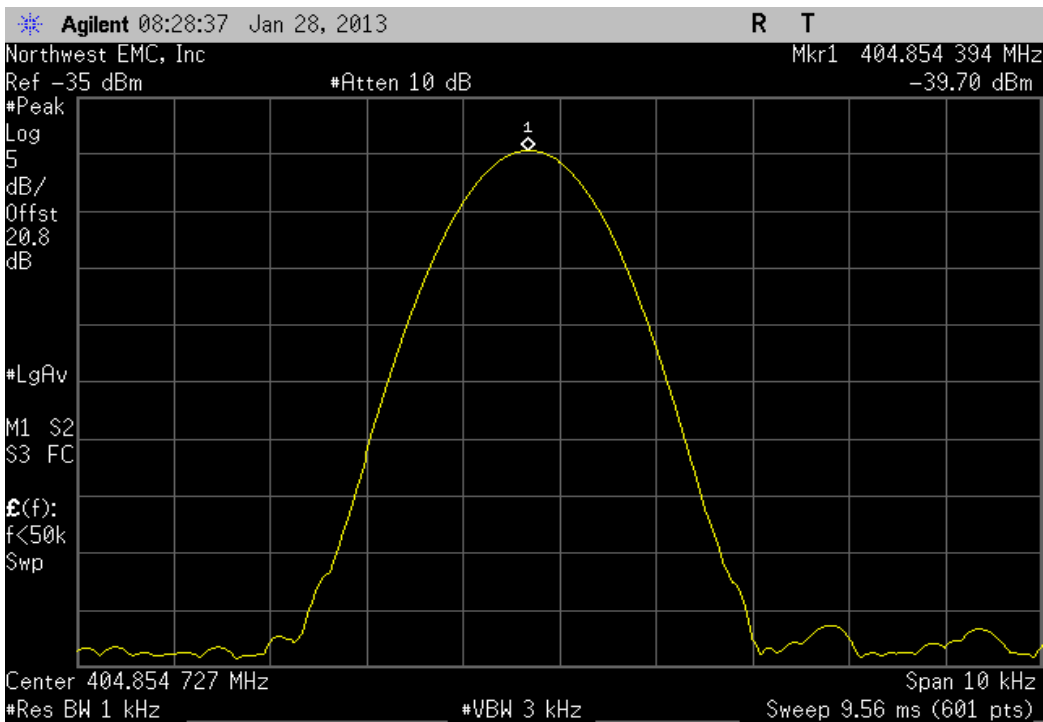
SN 41265564, Extreme Voltage +3.45VDC, Low Channel, 402.15 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
402.154492	402.15	11.2	100	Pass	



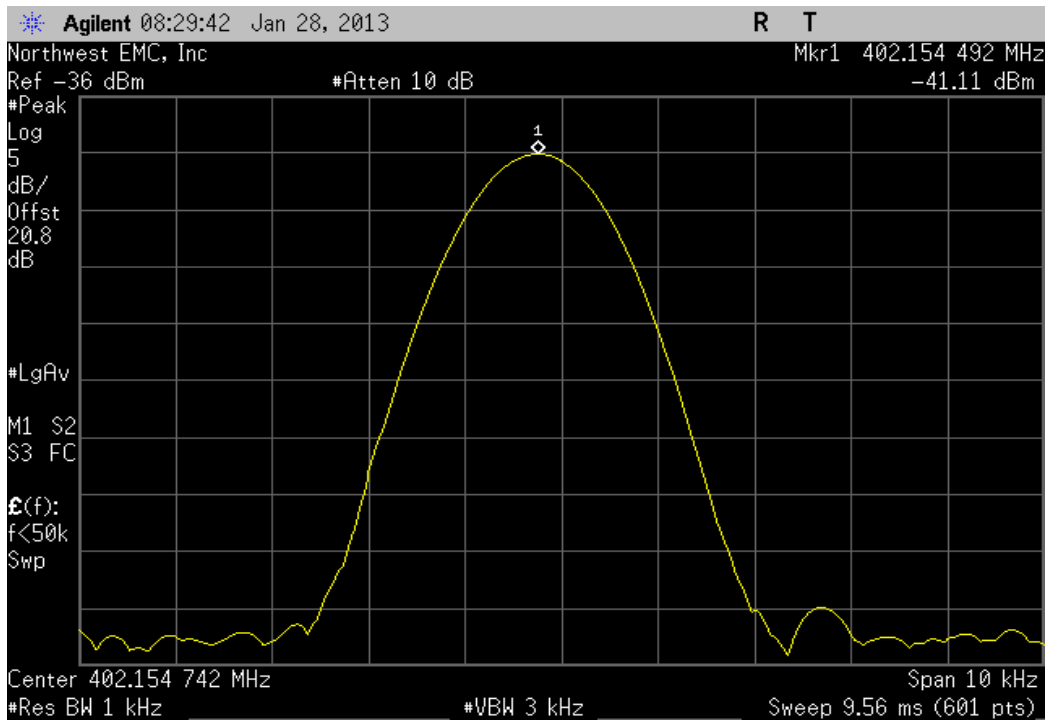
SN 41265564, Extreme Voltage +3.45VDC, Mid Channel, 403.35 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
403.354626	403.35	11.5	100	Pass	



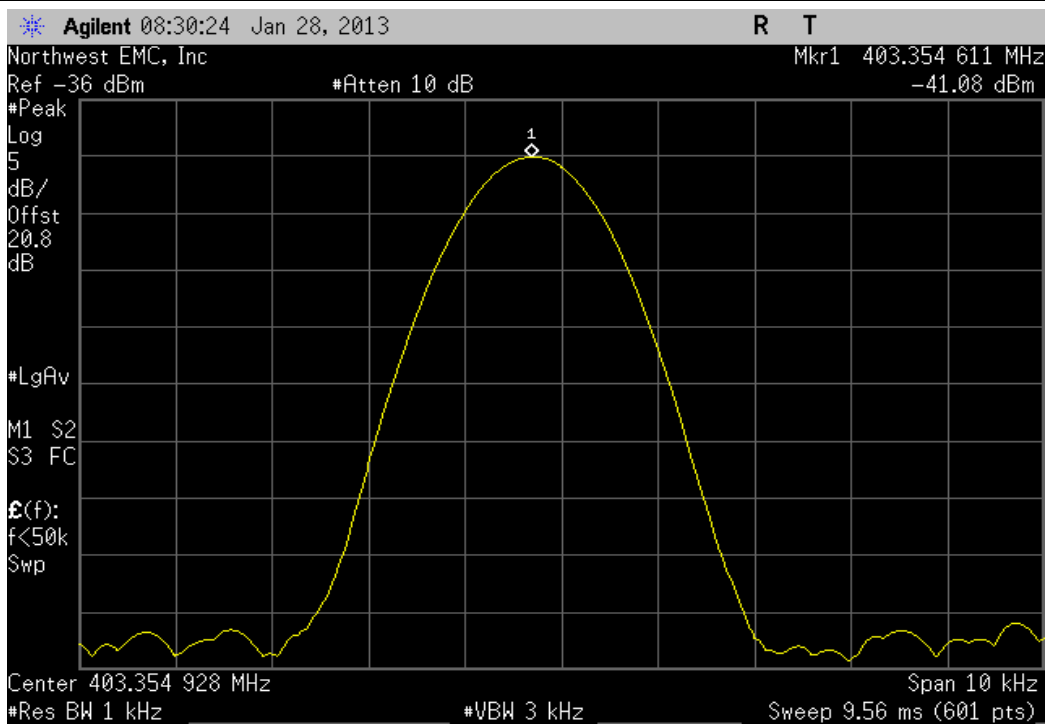
SN 41265564, Extreme Voltage +3.45VDC, High Channel, 404.85 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
404.854394	404.85	10.8	100	Pass	



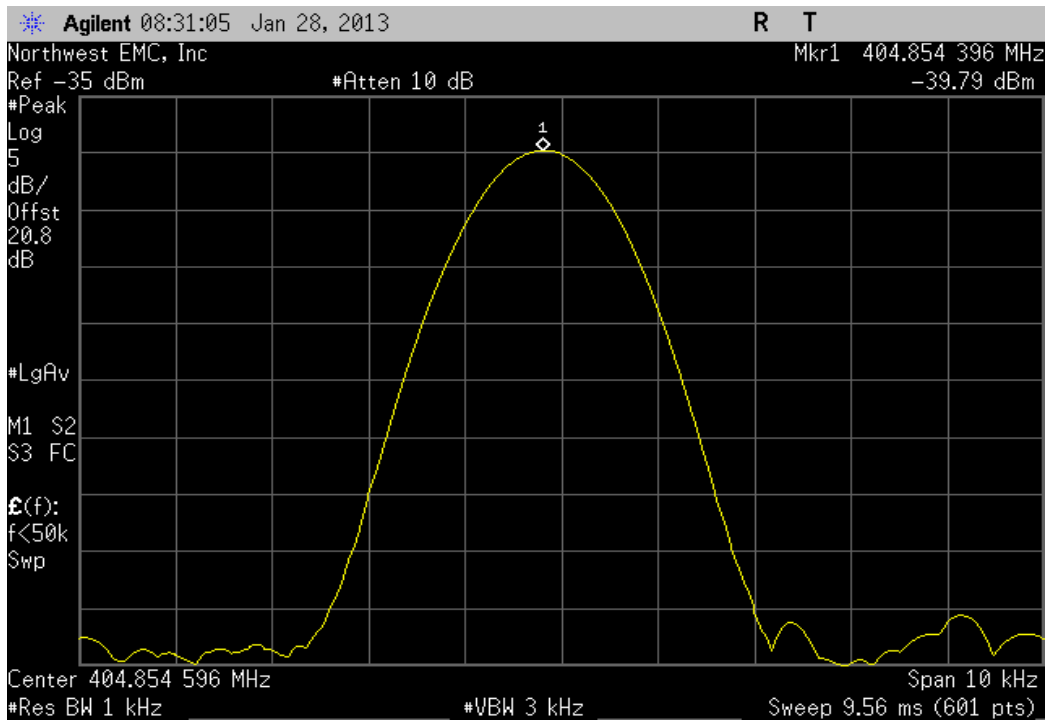
SN 41265564, Extreme Voltage +2.55VDC, Low Channel, 402.15 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
402.154492	402.15	11.2	100	Pass	



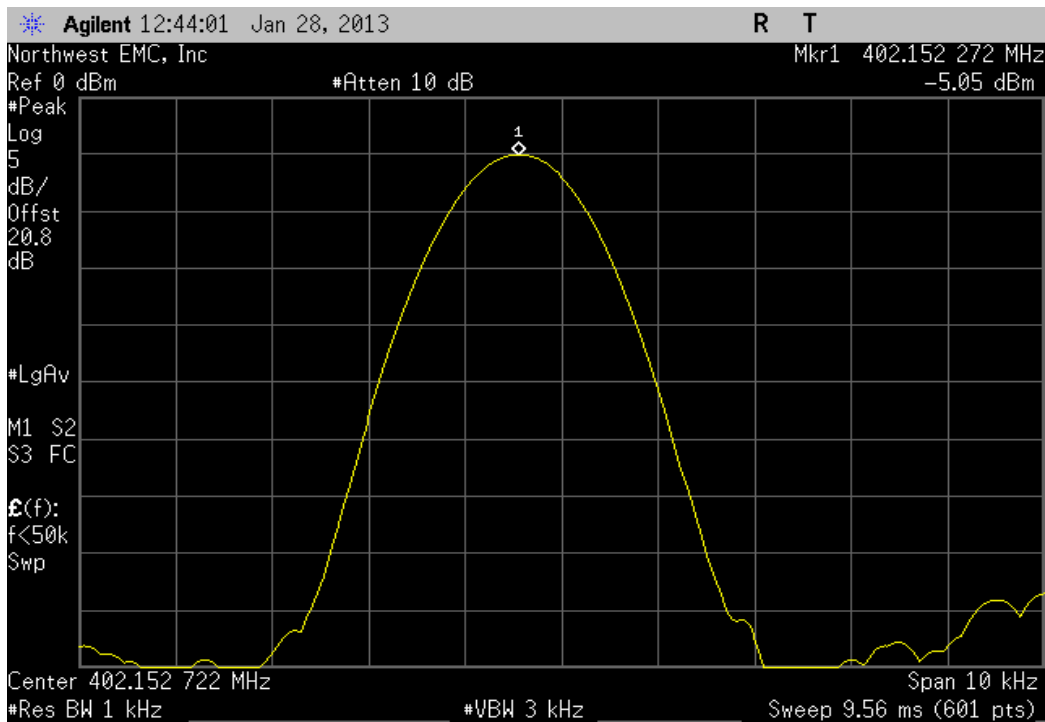
SN 41265564, Extreme Voltage +2.55VDC, Mid Channel, 403.35 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
403.354611	403.35	11.4	100	Pass	



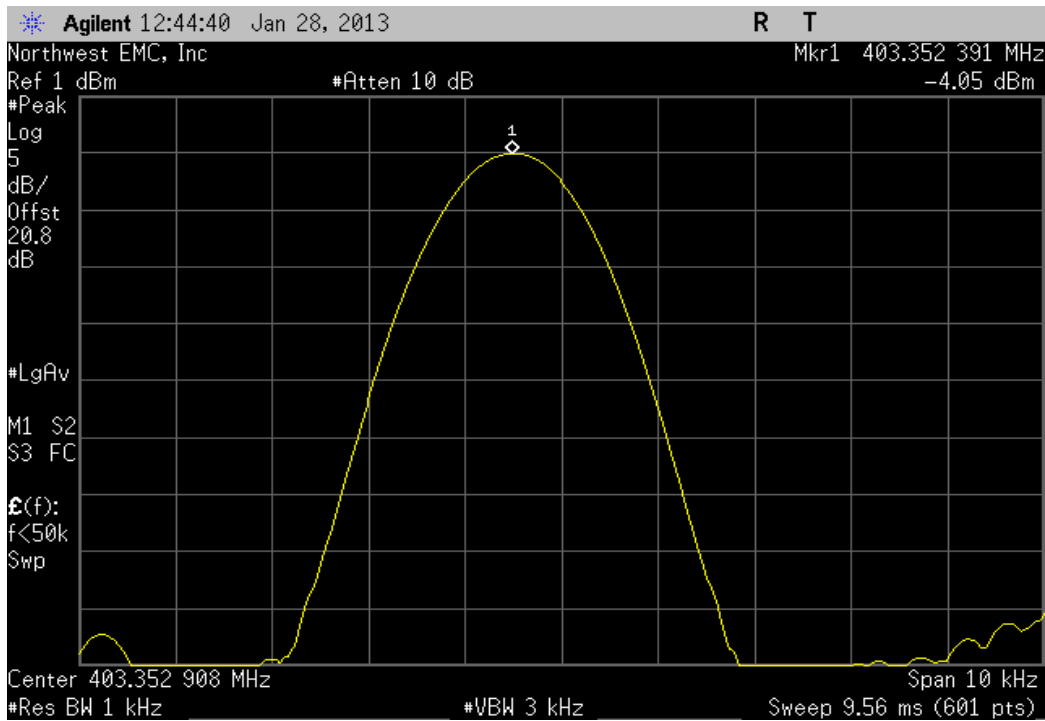
SN 41265564, Extreme Voltage +2.55VDC, High Channel, 404.85 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
404.854396	404.85	10.9	100	Pass	



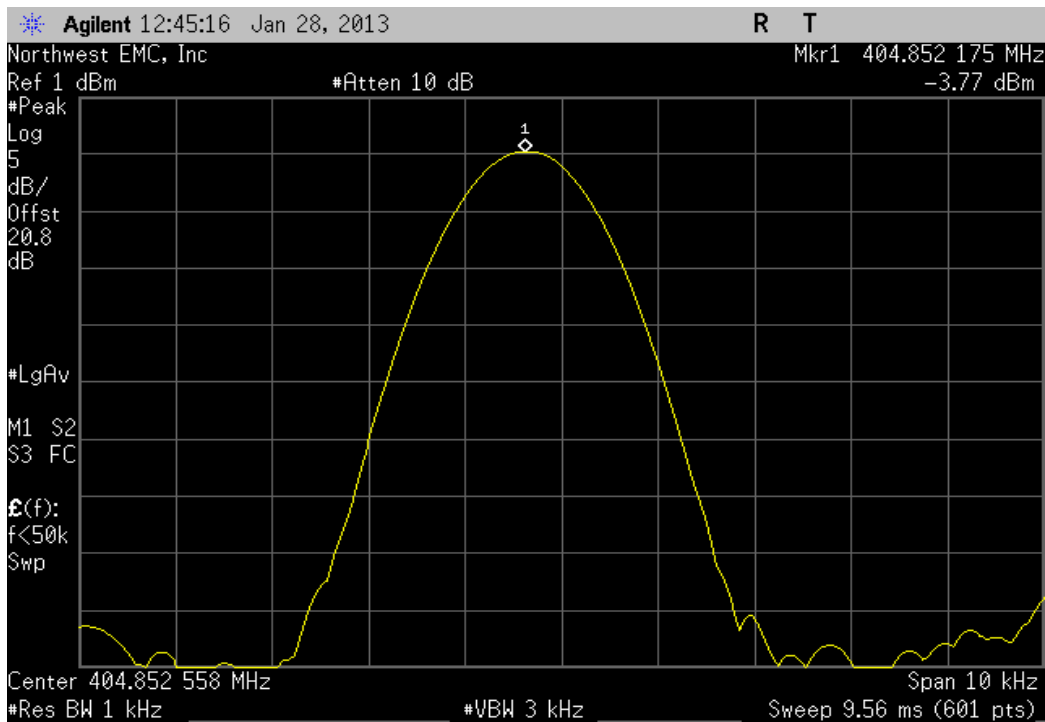
SN 41265564, Extreme Temperature +45 Degrees C, Low Channel, 402.15 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
402.152272	402.15	5.6	100	Pass	



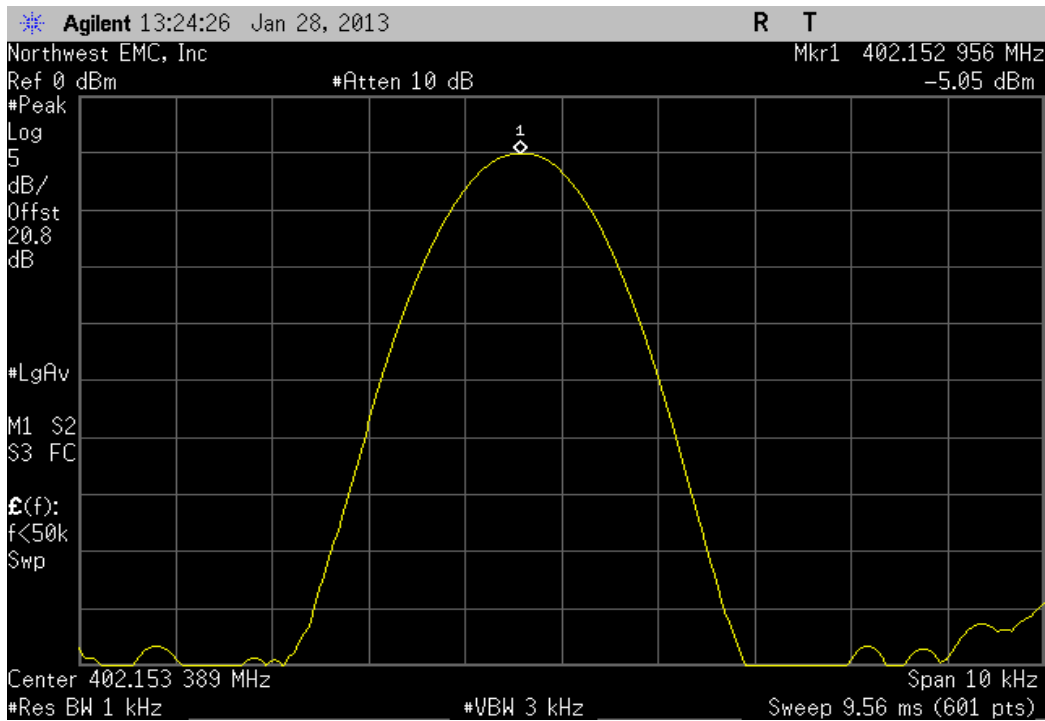
SN 41265564, Extreme Temperature +45 Degrees C, Mid Channel, 403.35 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	403.352391	403.35	5.9	100	Pass	



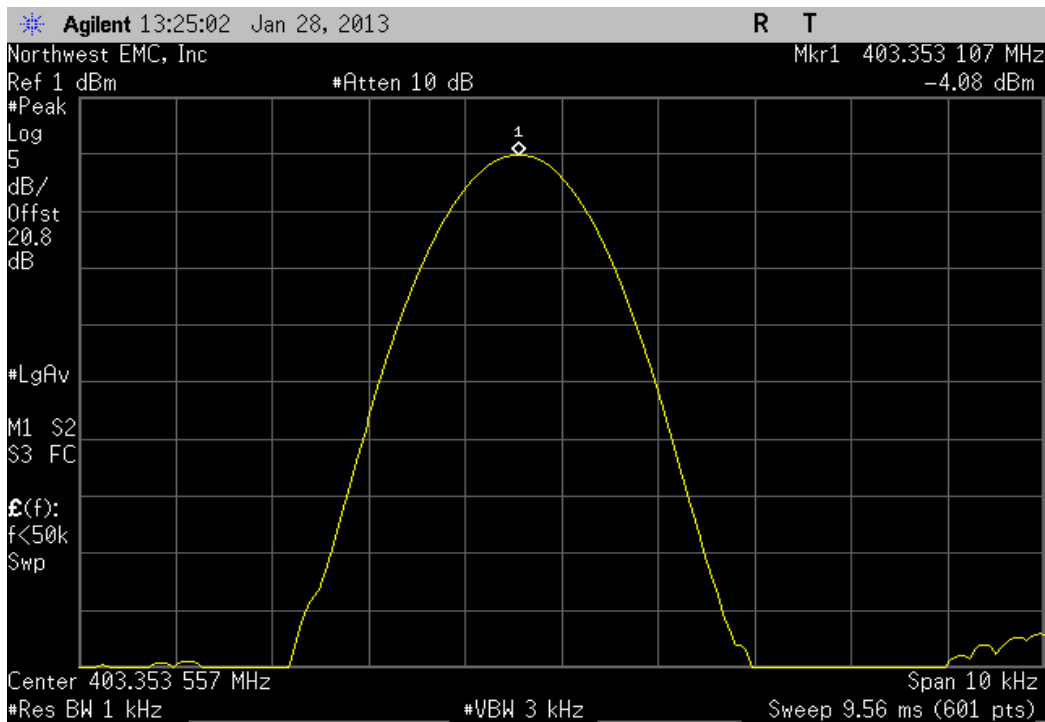
SN 41265564, Extreme Temperature +45 Degrees C, High Channel, 404.85 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	404.852175	404.85	5.4	100	Pass	



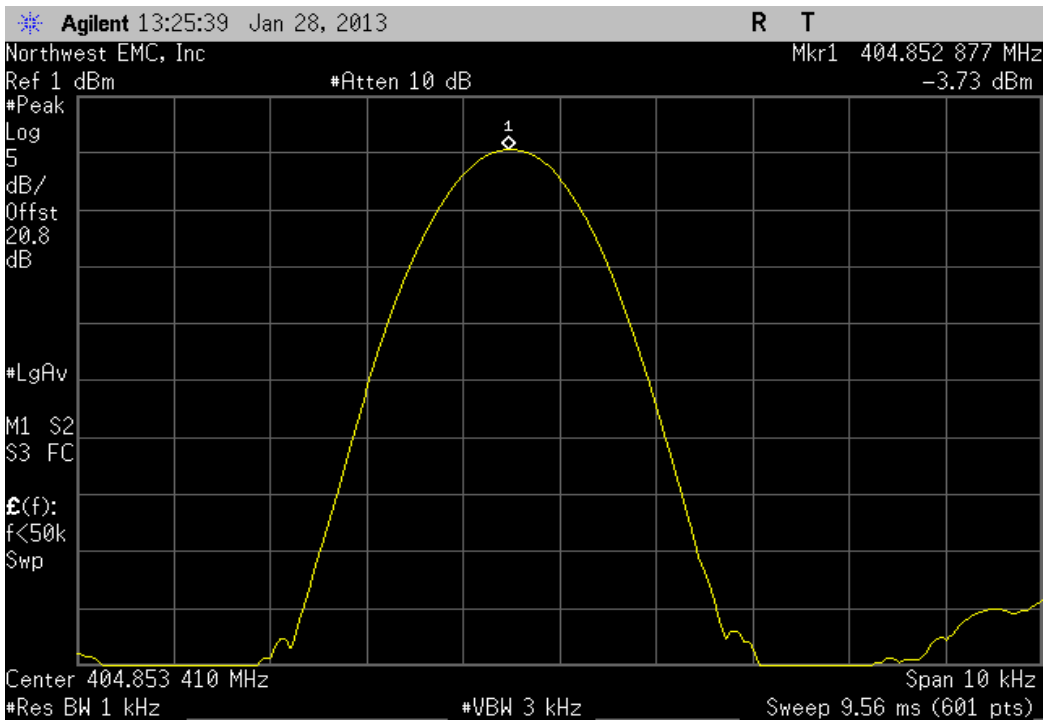
SN 41265564, Extreme Temperature +35 Degrees C, Low Channel, 402.15 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
402.152956	402.15	7.4	100	Pass	



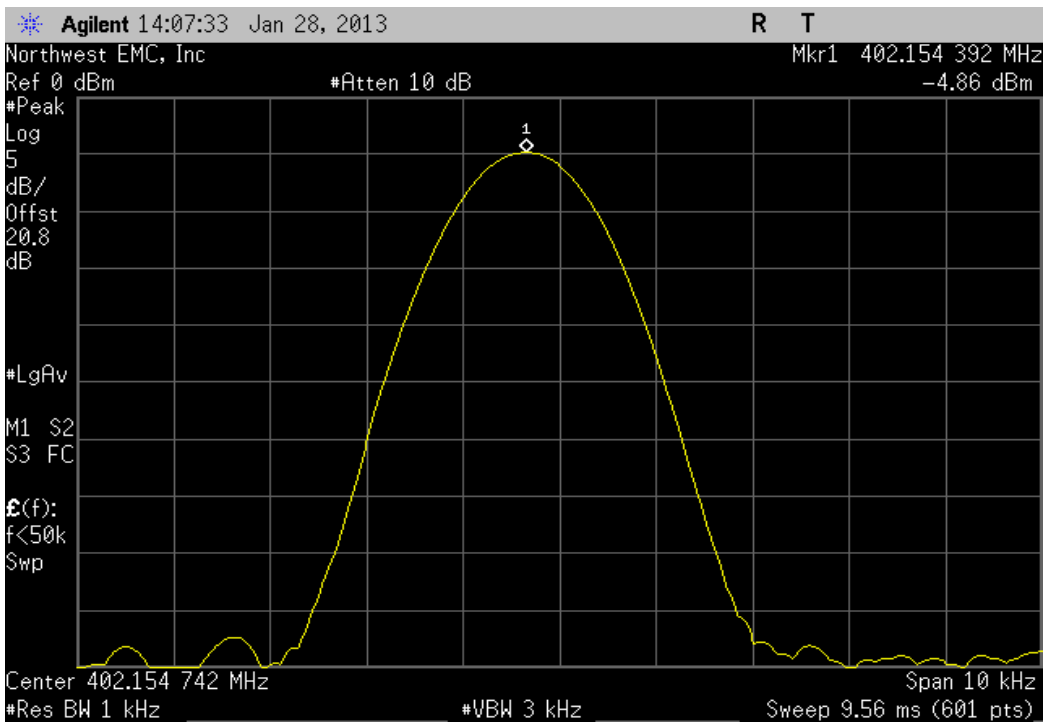
SN 41265564, Extreme Temperature +35 Degrees C, Mid Channel, 403.35 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
403.353107	403.35	7.7	100	Pass	



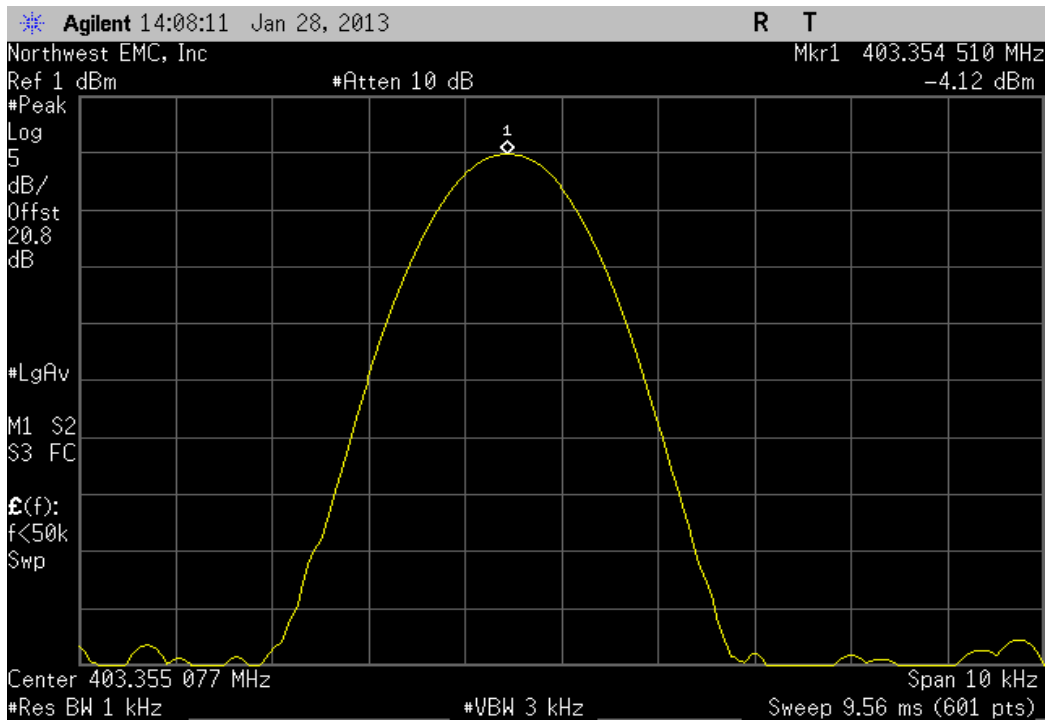
SN 41265564, Extreme Temperature +35 Degrees C, High Channel, 404.85 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
404.852877	404.85	7.1	100	Pass	



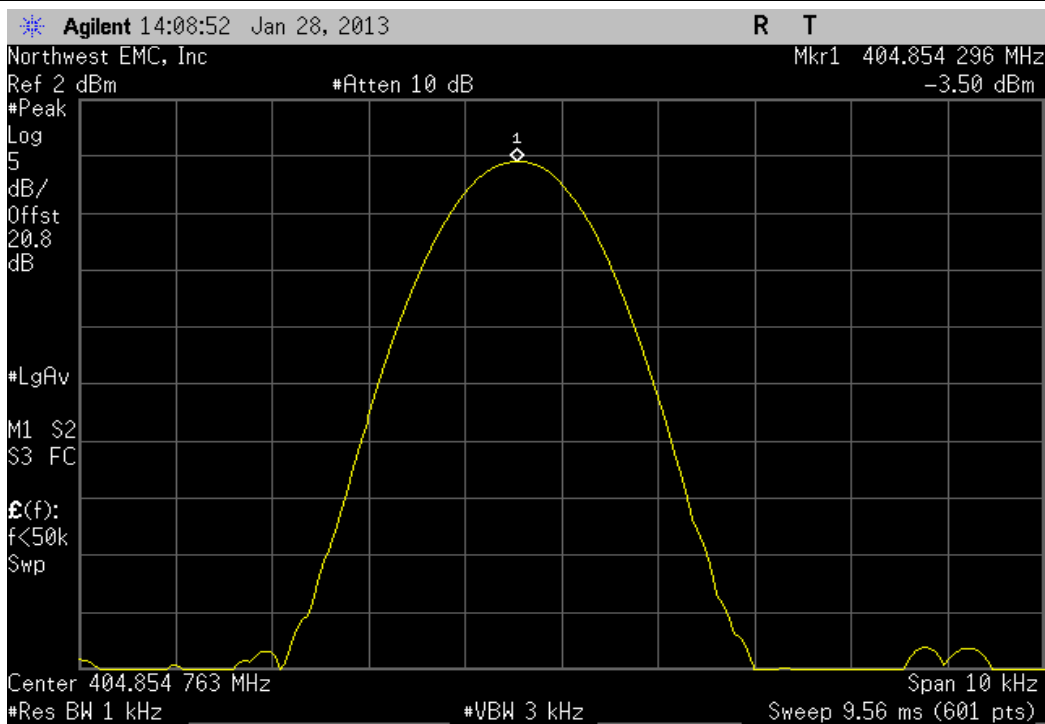
SN 41265564, Extreme Temperature +25 Degrees C, Low Channel, 402.15 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
402.154392	402.15	10.9	100	Pass	



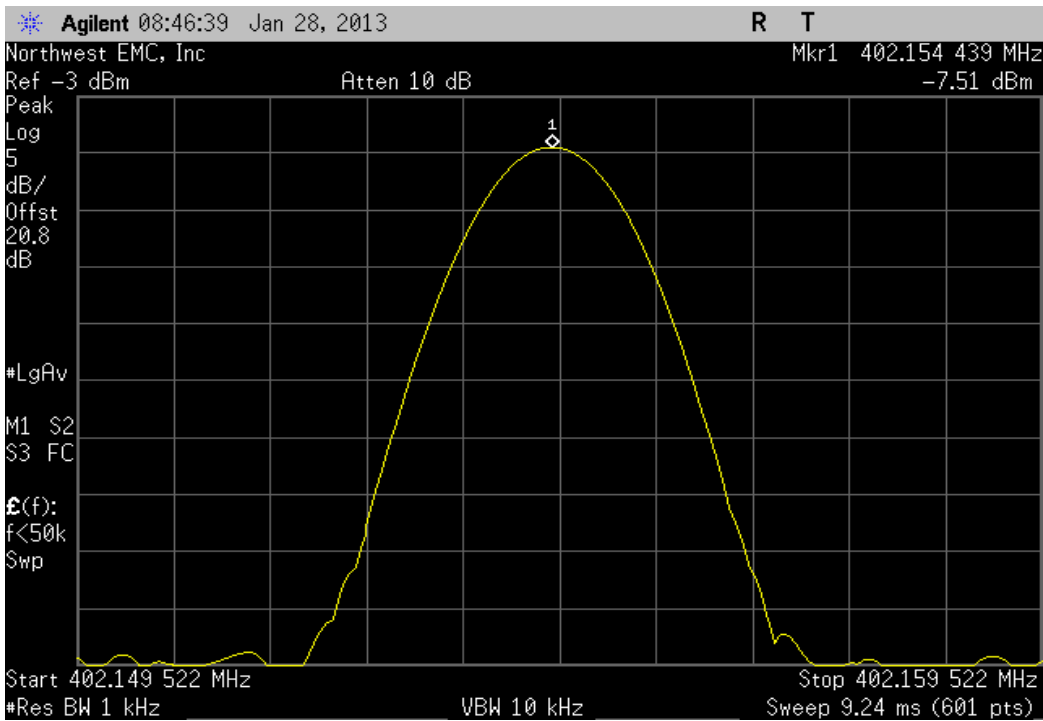
SN 41265564, Extreme Temperature +25 Degrees C, Mid Channel, 403.35 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
403.35451	403.35	11.2	100	Pass	



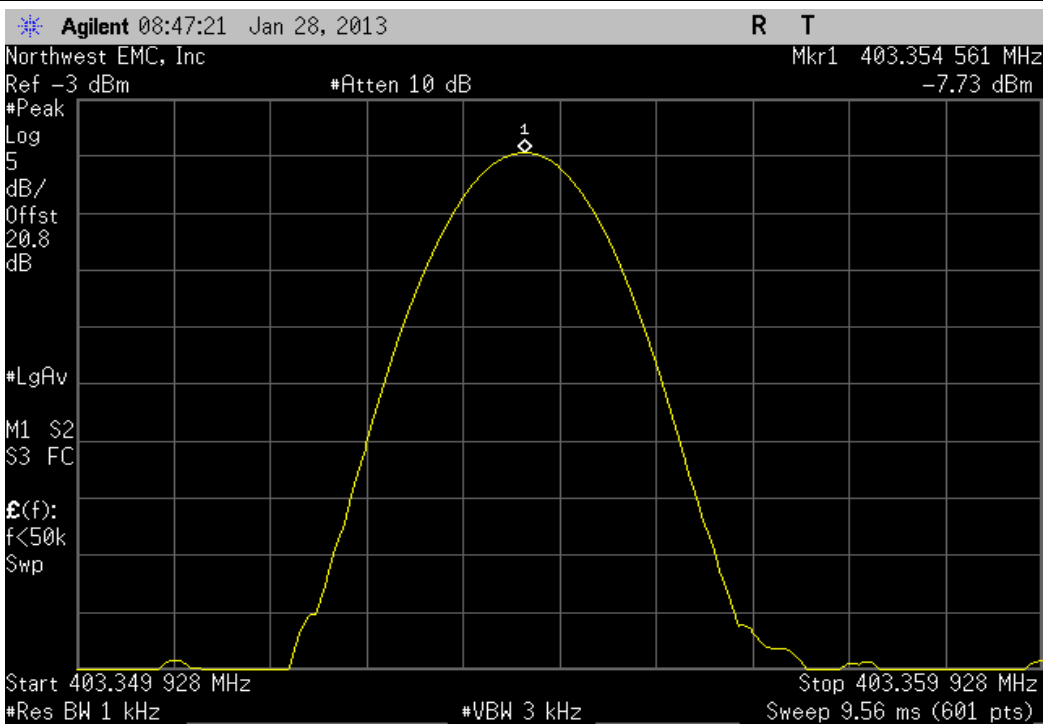
SN 41265564, Extreme Temperature +25 Degrees C, High Channel, 404.85 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
404.854296	404.85	10.6	100	Pass	



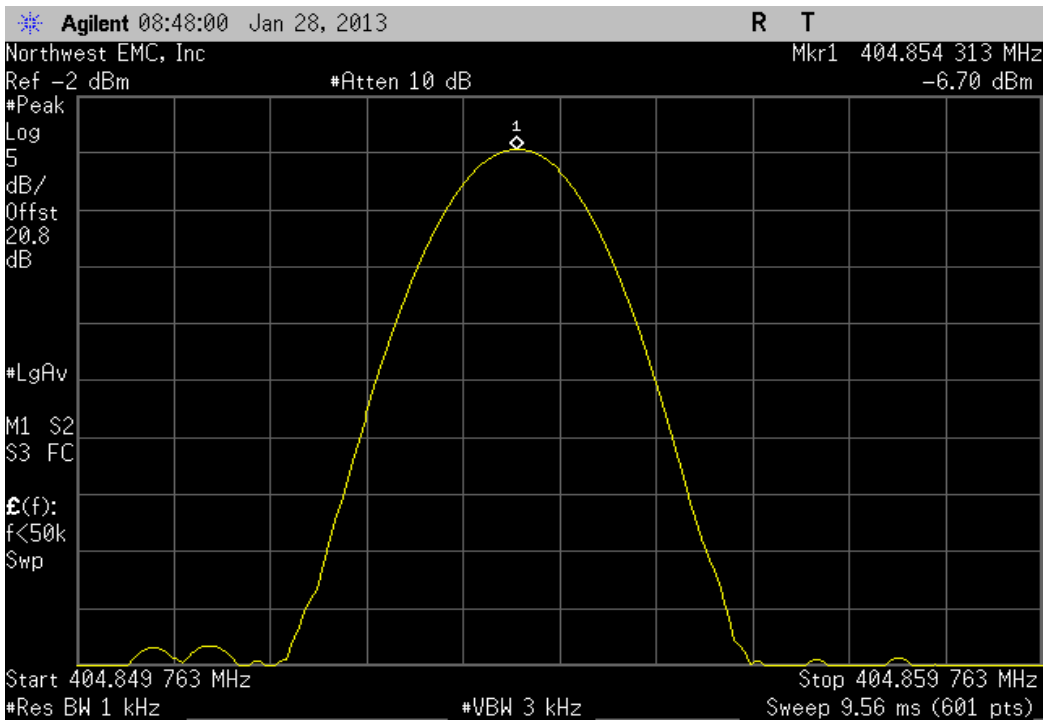
SN 41265511, Nominal Voltage +3VDC, Low Channel, 402.15 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
402.154439	402.15	11	100	Pass	



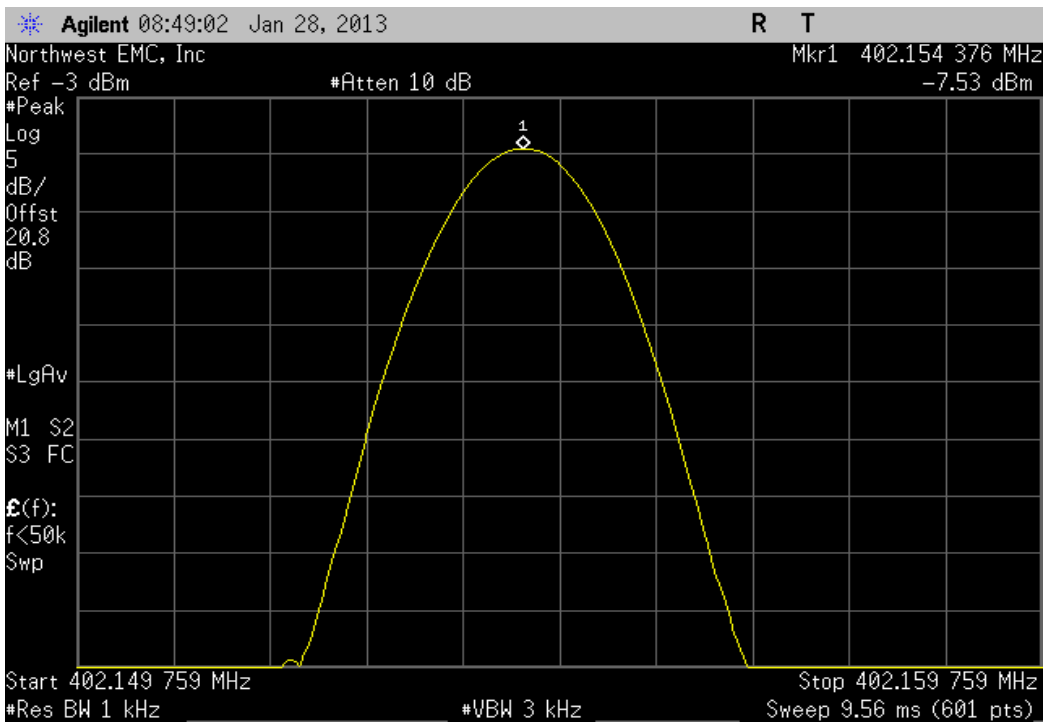
SN 41265511, Nominal Voltage +3VDC, Mid Channel, 403.35 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
403.354561	403.35	11.3	100	Pass	



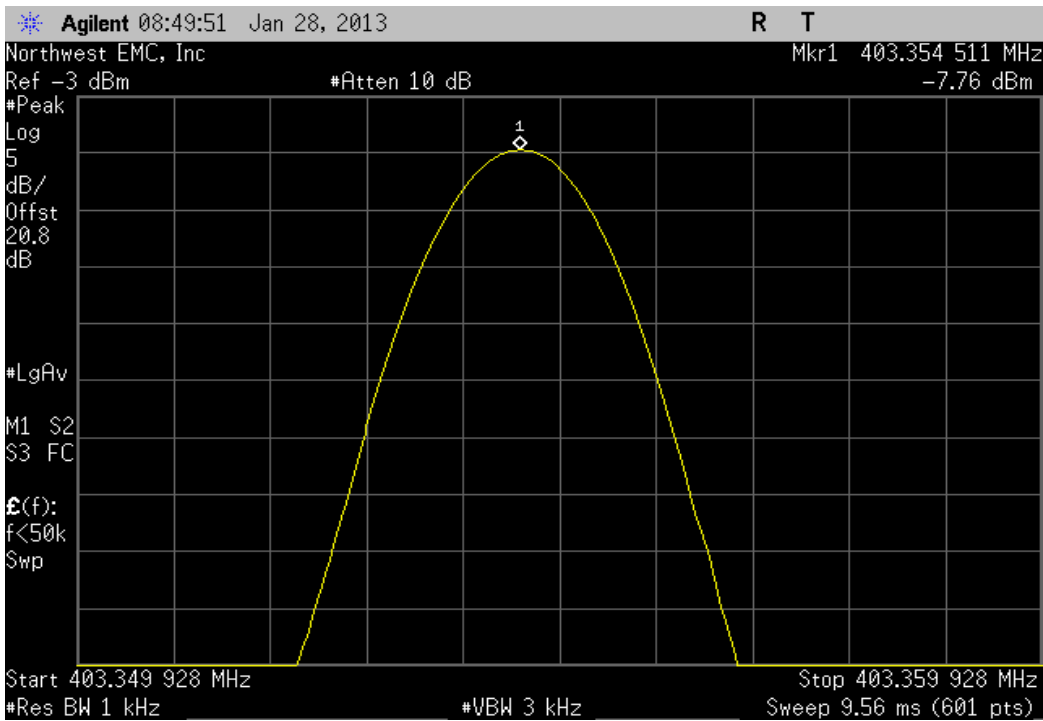
SN 41265511, Nominal Voltage +3VDC, High Channel, 404.85 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
404.854313	404.85	10.6	100	Pass	



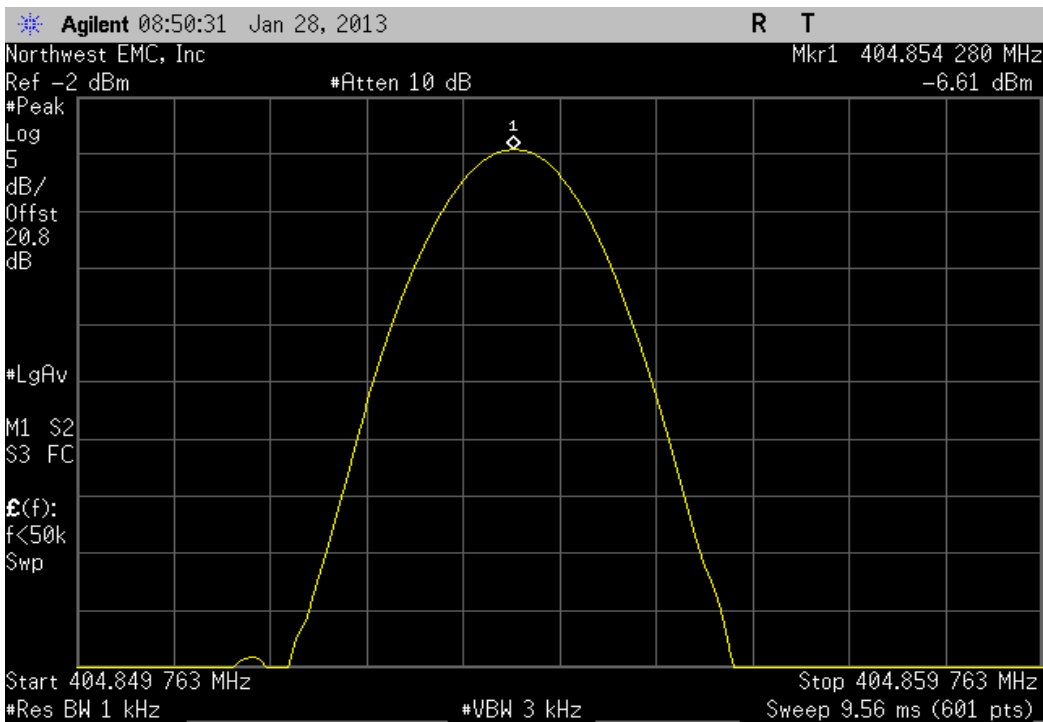
SN 41265511, Extreme Voltage +3.45VDC, Low Channel, 402.15 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
402.154376	402.15	10.9	100	Pass	



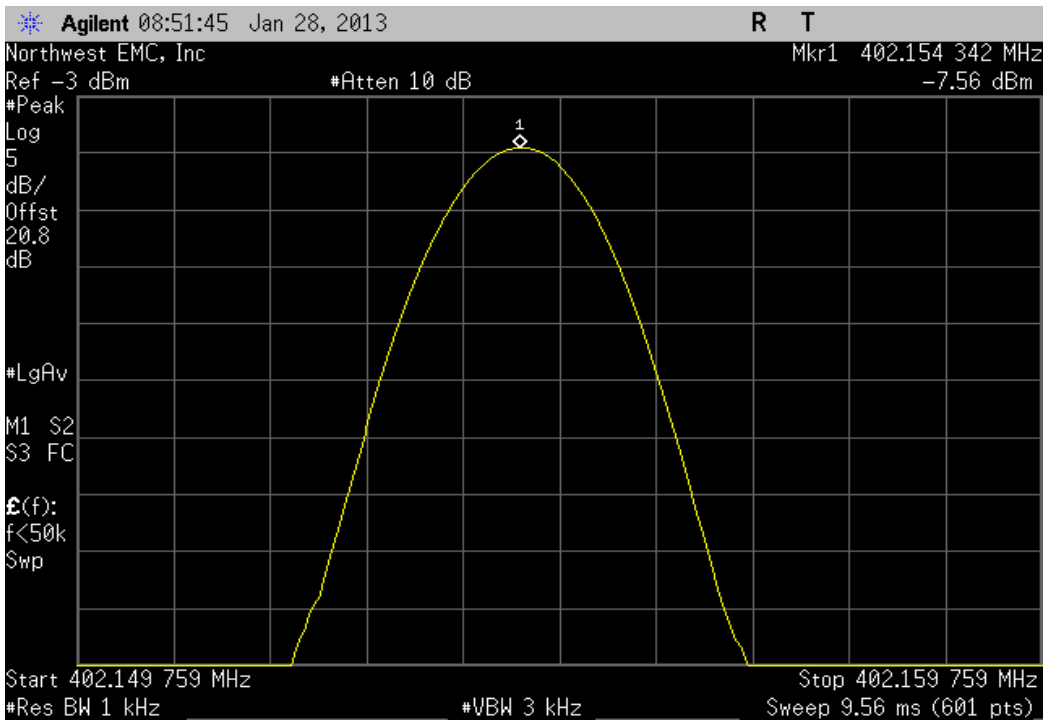
SN 41265511, Extreme Voltage +3.45VDC, Mid Channel, 403.35 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
403.354511	403.35	11.2	100	Pass	



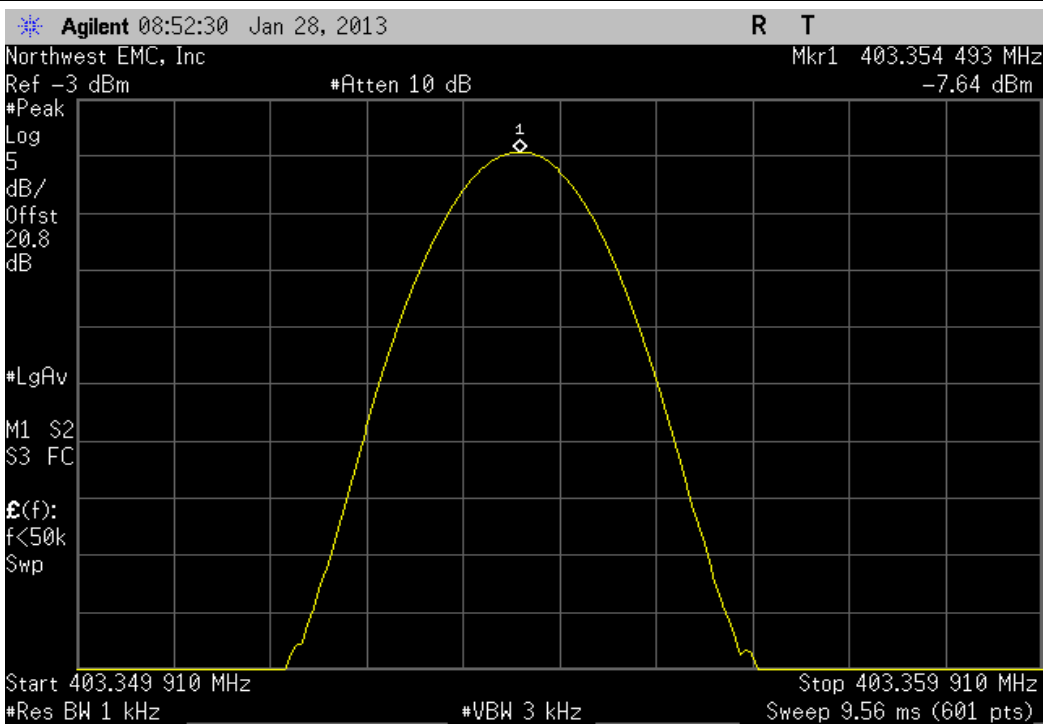
SN 41265511, Extreme Voltage +3.45VDC, High Channel, 404.85 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
404.85428	404.85	10.6	100	Pass	



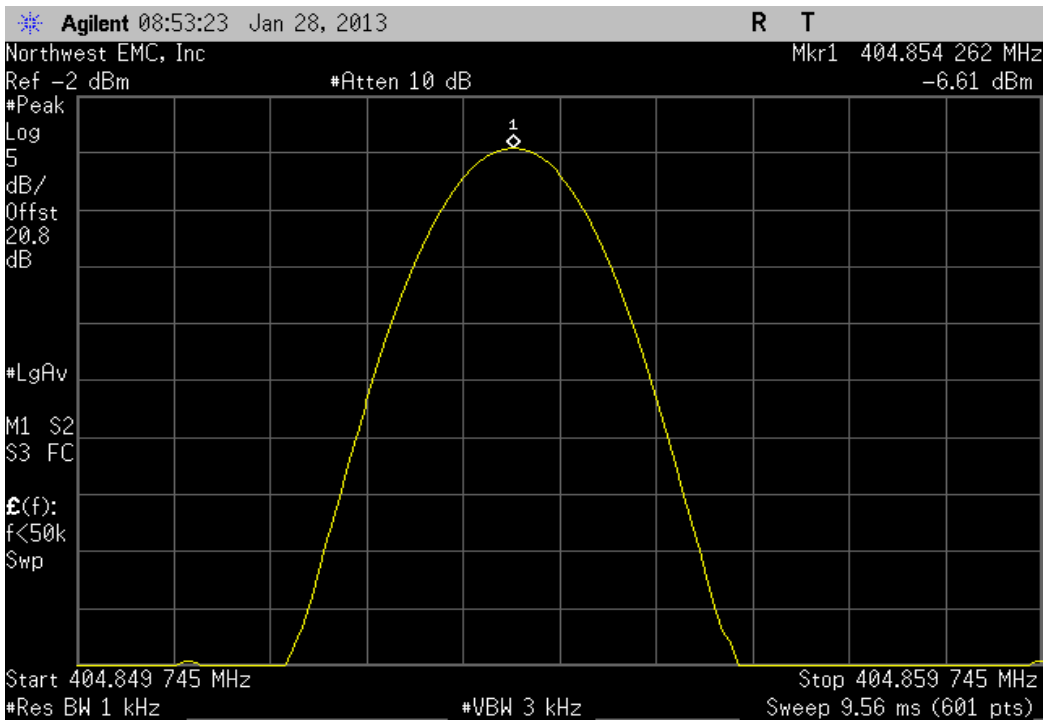
SN 41265511, Extreme Voltage +2.55VDC, Low Channel, 402.15 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
402.154342	402.15	10.8	100	Pass	



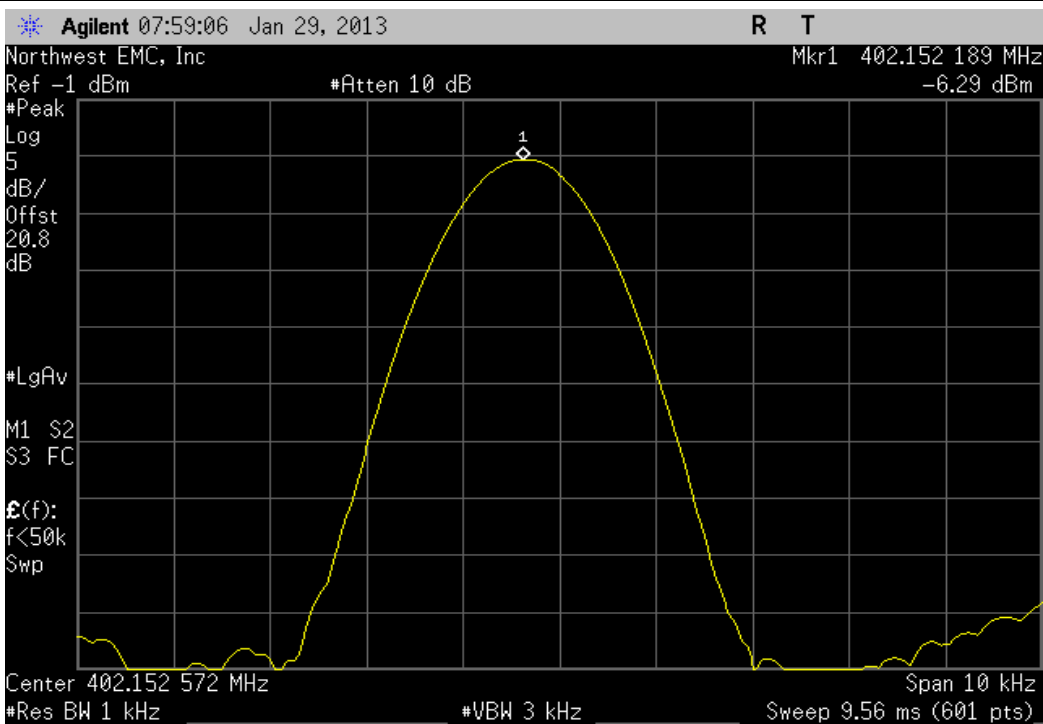
SN 41265511, Extreme Voltage +2.55VDC, Mid Channel, 403.35 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
403.354493	403.35	11.1	100	Pass	



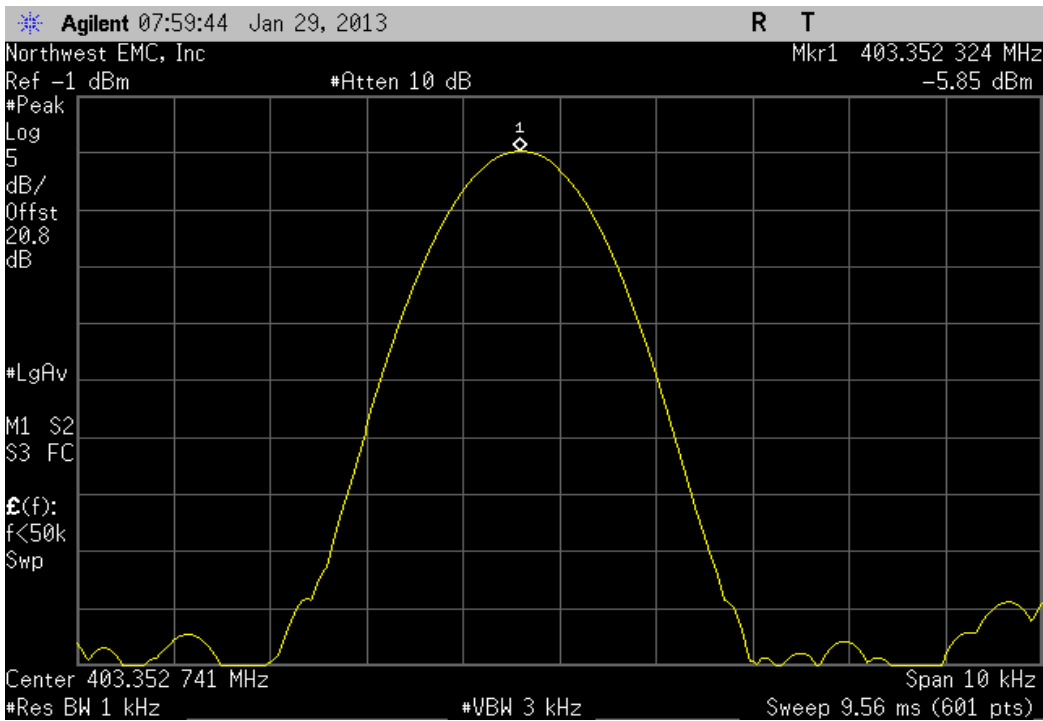
SN 41265511, Extreme Voltage +2.55VDC, High Channel, 404.85 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
404.854262	404.85	10.5	100	Pass	



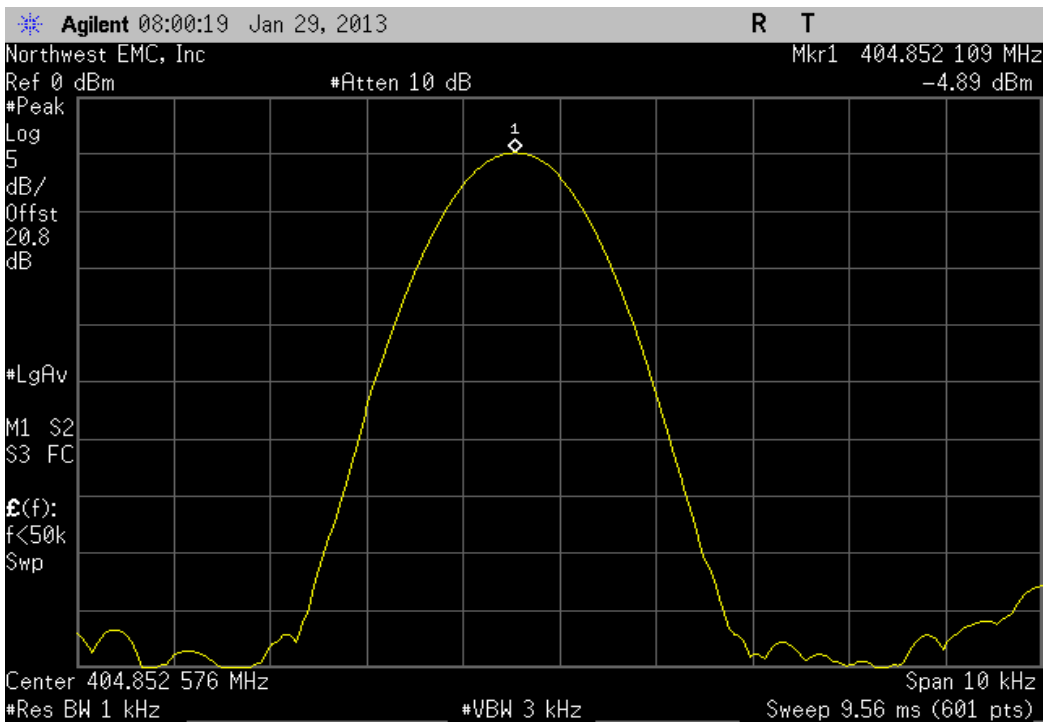
SN 41265511, Extreme Temperature +45 Degrees C, Low Channel, 402.15 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
402.152189	402.15	5.4	100	Pass	



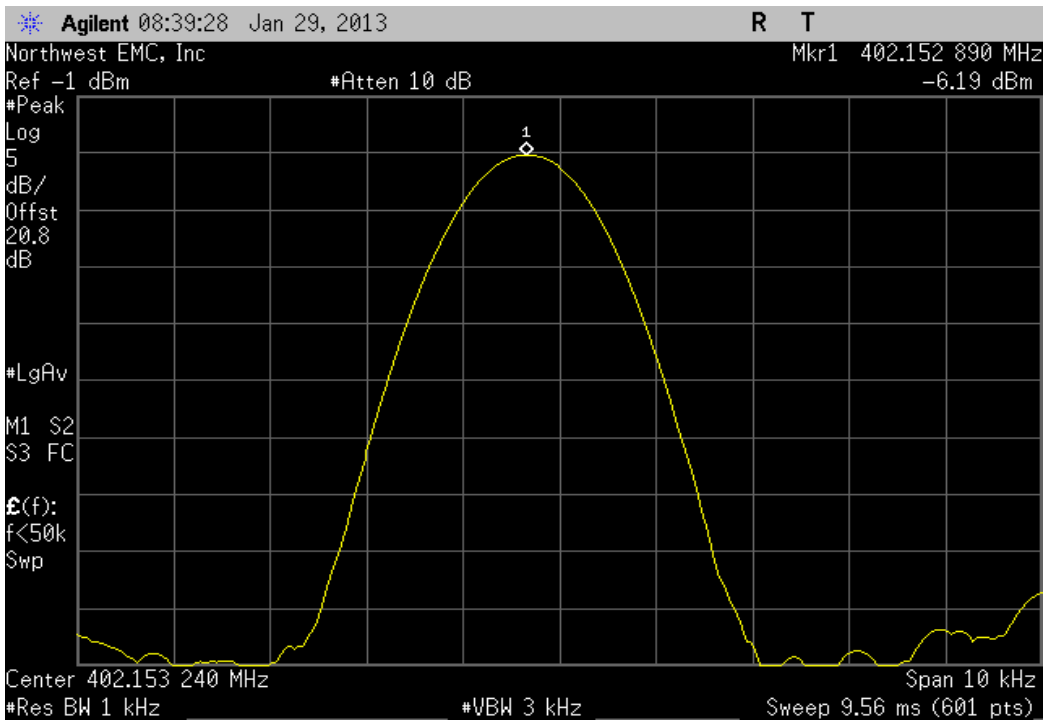
SN 41265511, Extreme Temperature +45 Degrees C, Mid Channel, 403.35 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	403.352324	403.35	5.8	100	Pass	



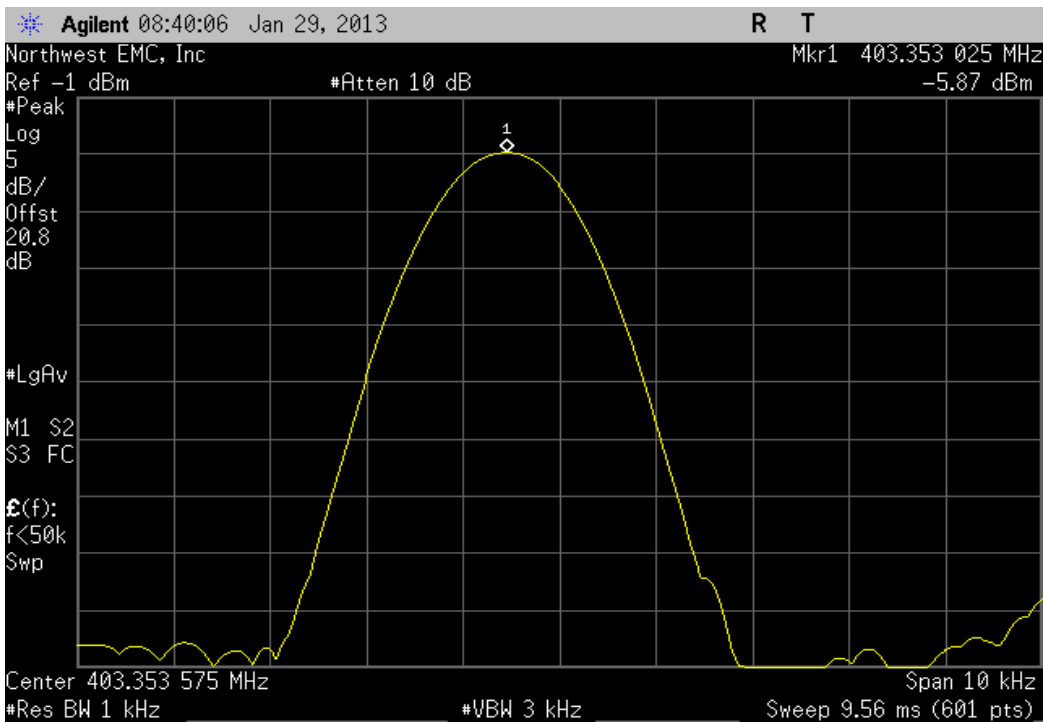
SN 41265511, Extreme Temperature +45 Degrees C, High Channel, 404.85 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	404.852109	404.85	5.2	100	Pass	



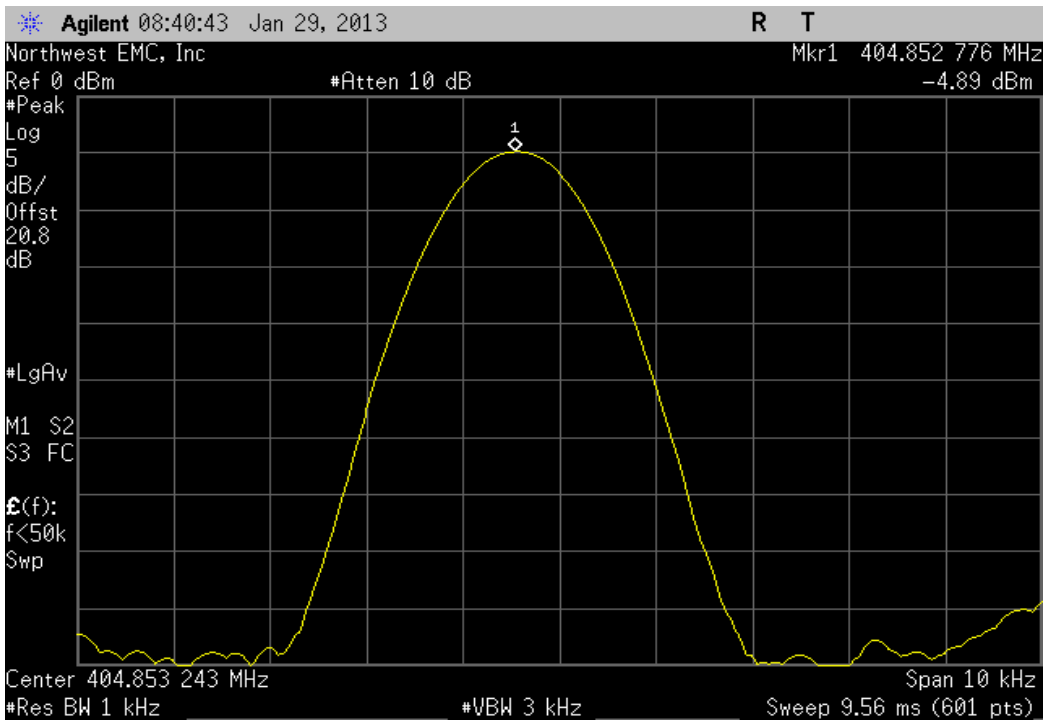
SN 41265511, Extreme Temperature +35 Degrees C, Low Channel, 402.15 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	402.15289	402.15	7.2	100	Pass	



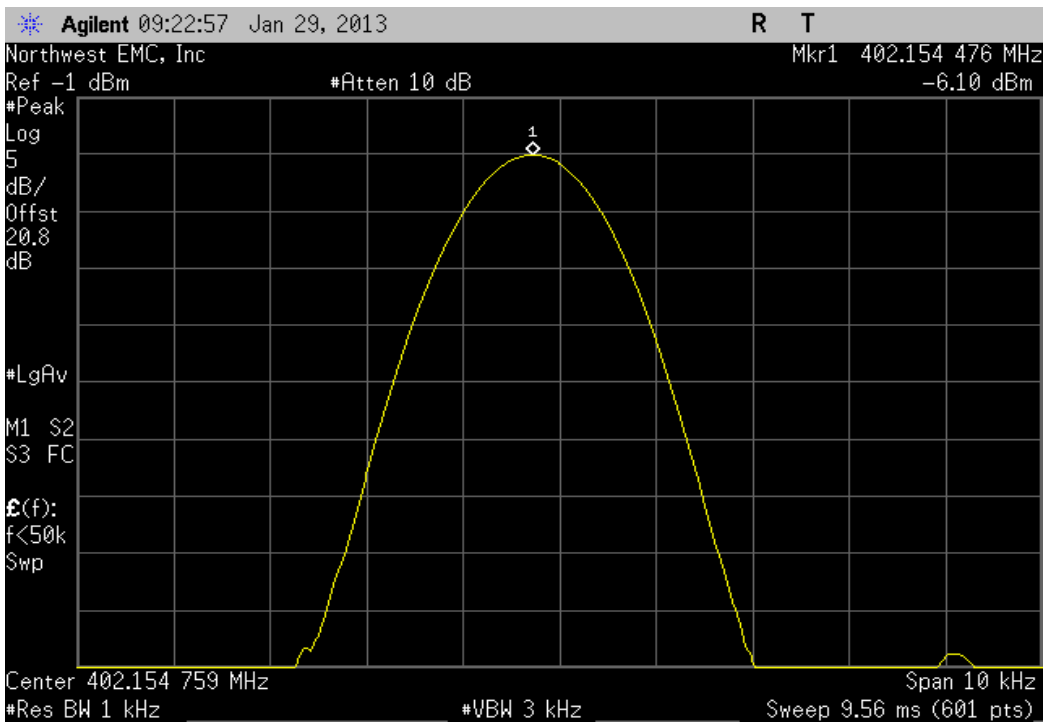
SN 41265511, Extreme Temperature +35 Degrees C, Mid Channel, 403.35 MHz						
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
	403.353025	403.35	7.5	100	Pass	



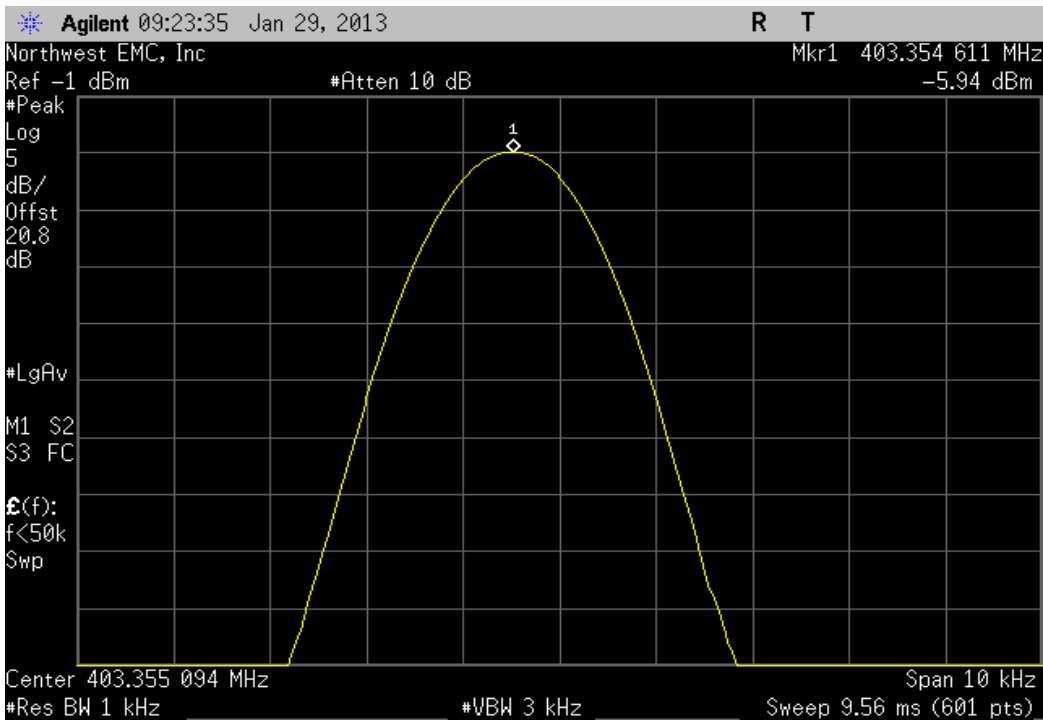
SN 41265511, Extreme Temperature +35 Degrees C, High Channel, 404.85 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
404.852776	404.85	6.9	100	Pass	



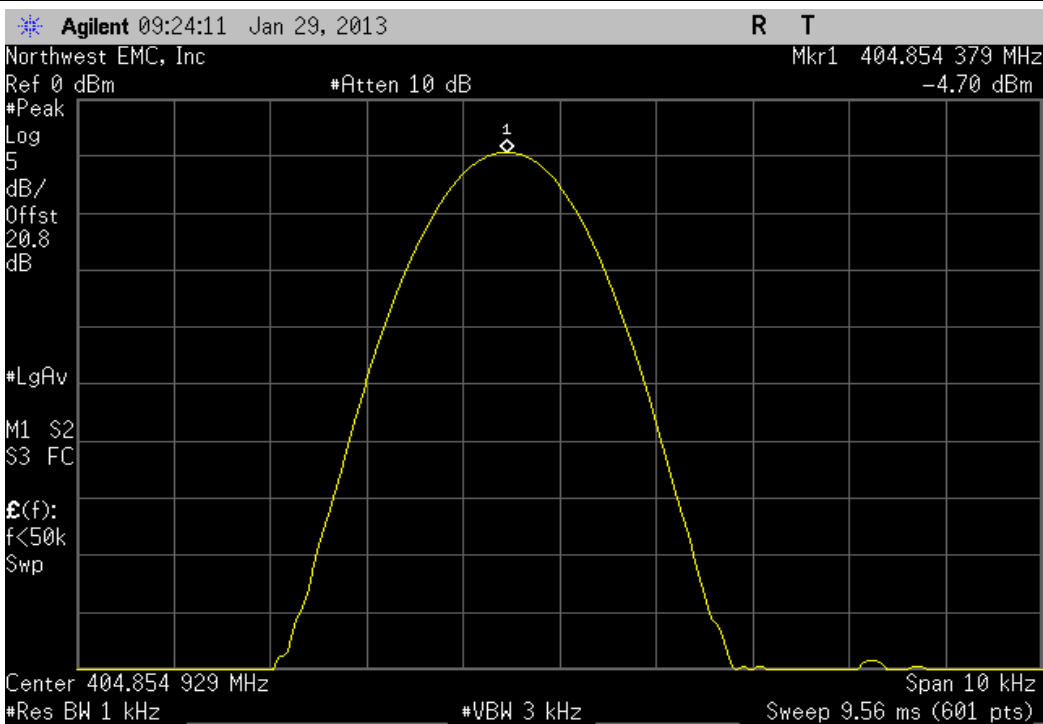
SN 41265511, Extreme Temperature +25 Degrees C, Low Channel, 402.15 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
402.154476	402.15	11.1	100	Pass	



SN 41265511, Extreme Temperature +25 Degrees C, Mid Channel, 403.35 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
403.354611	403.35	11.4	100	Pass	



SN 41265511, Extreme Temperature +25 Degrees C, High Channel, 404.85 MHz					
Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result	
404.854379	404.85	10.8	100	Pass	



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

Receiving low, mid, high channels: 402.15, 403.35, 404.85 MHz

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

BSTN0405 - 1

BSTN0405 - 2

BSTN0405 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	5000 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
Spectrum Analyzer	Agilent	E4446A	AAT	6/28/2012	24 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	5/30/2012	12 mo
MN05 Cables	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	5/30/2012	12 mo
Antenna, Horn (DRG)	ETS Lindgren	3115	AIP	6/29/2011	24 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	8/28/2012	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	5/31/2012	12 mo
Antenna, Bilog	Teseq	CBL 6141B	AYD	12/17/2012	12 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

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 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 C63.10). A preamp was used for this test in order to provide sufficient measurement sensitivity. The EUT was configured to transmit in a fixture that simulates the human torso. The dimensions of the test fixture and the characteristics of the tissue substitute material met the requirements 95.627(i) and FCC KDB 617965. The height of the transmitter was 1.5-meter above the reference ground plane.

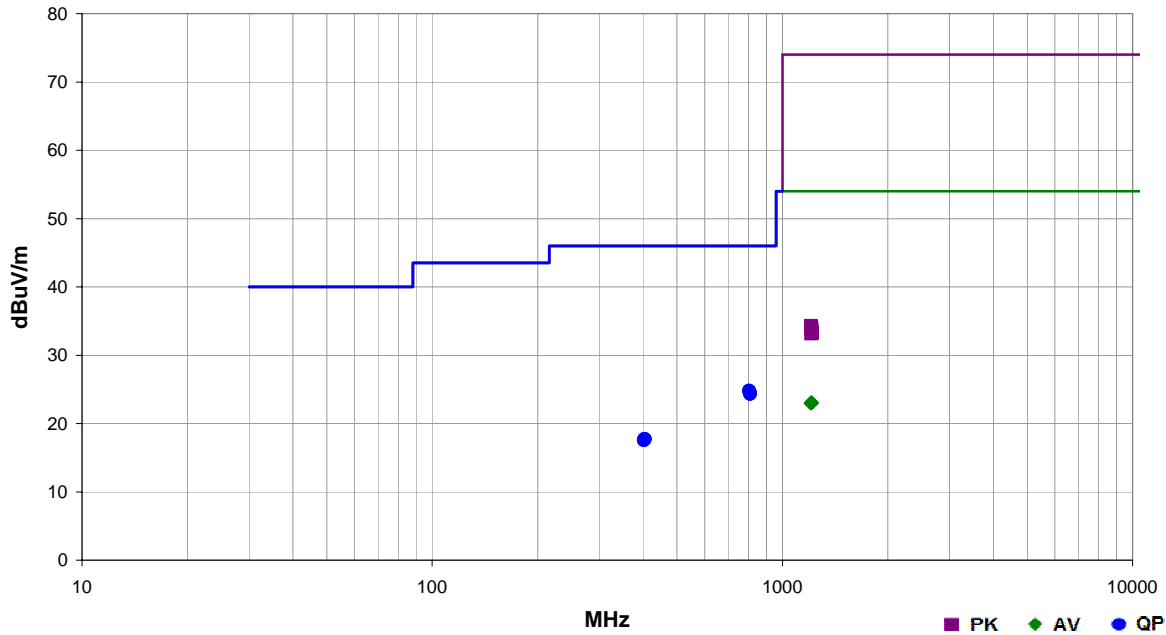


RECEIVER SPURIOUS EMISSIONS

Work Order:	BSTN0405	Date:	01/24/13	
Project:	None	Temperature:	23.6 °C	
Job Site:	MN05	Humidity:	8% RH	
Serial Number:	157403	Barometric Pres.:	1039.2 mbar	
EUT:	Autogen NG3			
Configuration:	3			
Customer:	Boston Scientific Corporation			
Attendees:	Daniel Landherr			
EUT Power:	Battery			
Operating Mode:	Receiving low, mid, high channels: 402.15, 403.35, 404.85 MHz			
Deviations:	None			
Comments:	None			

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

Run #	16	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)
803.364	17.1	7.7	1.0	162.0	3.0	0.0	Vert	QP	0.0	24.8	46.0	-21.2
803.302	17.0	7.7	1.0	252.0	3.0	0.0	Horz	QP	0.0	24.7	46.0	-21.3
807.014	17.1	7.5	1.0	125.0	3.0	0.0	Horz	QP	0.0	24.6	46.0	-21.4
807.916	17.1	7.4	2.6	61.0	3.0	0.0	Vert	QP	0.0	24.5	46.0	-21.5
809.193	17.1	7.2	2.8	48.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7
809.602	17.1	7.2	1.0	188.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7
404.258	17.3	0.5	1.0	155.0	3.0	0.0	Horz	QP	0.0	17.8	46.0	-28.2
404.722	17.2	0.5	1.5	244.0	3.0	0.0	Horz	QP	0.0	17.7	46.0	-28.3
404.687	17.2	0.5	2.4	92.0	3.0	0.0	Vert	QP	0.0	17.7	46.0	-28.3
402.886	17.2	0.4	1.8	29.0	3.0	0.0	Vert	QP	0.0	17.6	46.0	-28.4
402.643	17.2	0.4	1.0	215.0	3.0	0.0	Horz	QP	0.0	17.6	46.0	-28.4
402.638	17.2	0.4	2.7	11.0	3.0	0.0	Vert	QP	0.0	17.6	46.0	-28.4
1211.750	30.5	-7.4	1.0	305.0	3.0	0.0	Horz	AV	0.0	23.1	54.0	-30.9
1207.675	30.5	-7.4	1.0	358.0	3.0	0.0	Vert	AV	0.0	23.1	54.0	-30.9
1214.850	30.4	-7.4	1.0	61.0	3.0	0.0	Vert	AV	0.0	23.0	54.0	-31.0
1212.183	30.4	-7.4	1.0	4.0	3.0	0.0	Horz	AV	0.0	23.0	54.0	-31.0
1208.883	30.4	-7.4	1.0	204.0	3.0	0.0	Vert	AV	0.0	23.0	54.0	-31.0
1204.117	30.4	-7.5	1.0	66.0	3.0	0.0	Horz	AV	0.0	22.9	54.0	-31.1
1207.633	41.7	-7.4	1.0	358.0	3.0	0.0	Vert	PK	0.0	34.3	74.0	-39.7
1210.108	41.5	-7.4	1.0	305.0	3.0	0.0	Horz	PK	0.0	34.1	74.0	-39.9

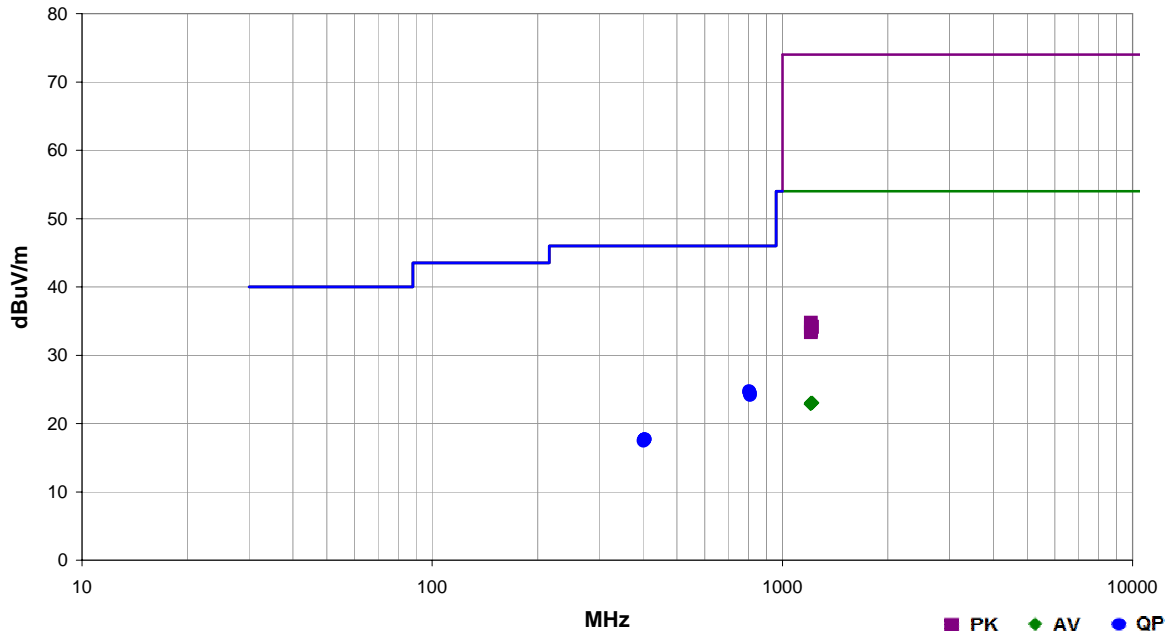


RECEIVER SPURIOUS EMISSIONS

Work Order:	BSTN0405	Date:	01/24/13	
Project:	None	Temperature:	23.6 °C	
Job Site:	MN05	Humidity:	8% RH	
Serial Number:	157301	Barometric Pres.:	1039.2 mbar	
EUT:	Autogen NG3			
Configuration:	2			
Customer:	Boston Scientific Corporation			
Attendees:	Daniel Landherr			
EUT Power:	Battery			
Operating Mode:	Receiving low, mid, high channels: 402.15, 403.35, 404.85 MHz			
Deviations:	None			
Comments:	None			

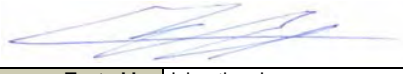
Test Specifications	Class B	Test Method
FCC 15.109:2013		ANSI C63.4:2009

Run #	19	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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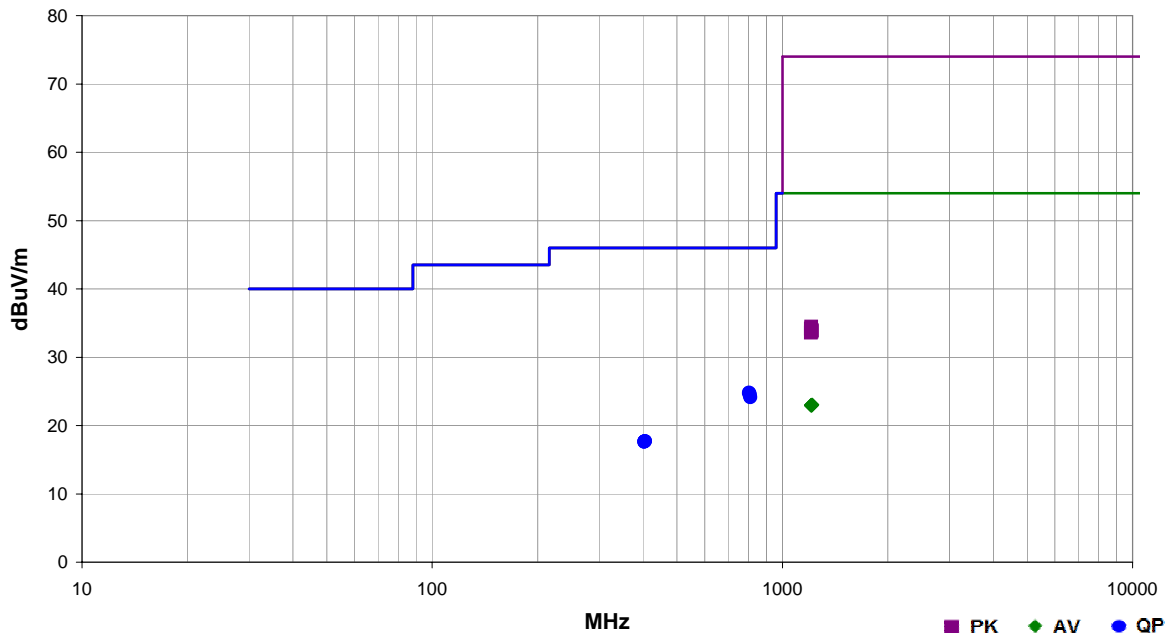
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
804.211	17.0	7.7	2.8	278.0	3.0	0.0	Horz	QP	0.0	24.7	46.0	-21.3
806.178	17.0	7.6	1.0	14.0	3.0	0.0	Vert	QP	0.0	24.6	46.0	-21.4
806.382	17.0	7.6	4.0	162.0	3.0	0.0	Vert	QP	0.0	24.6	46.0	-21.4
808.177	17.1	7.4	1.0	277.0	3.0	0.0	Vert	QP	0.0	24.5	46.0	-21.5
808.257	17.1	7.3	1.0	246.0	3.0	0.0	Horz	QP	0.0	24.4	46.0	-21.6
809.574	17.0	7.2	1.5	345.0	3.0	0.0	Horz	QP	0.0	24.2	46.0	-21.8
404.697	17.2	0.5	2.5	12.0	3.0	0.0	Horz	QP	0.0	17.7	46.0	-28.3
404.284	17.2	0.5	1.5	150.0	3.0	0.0	Vert	QP	0.0	17.7	46.0	-28.3
403.746	17.2	0.4	2.8	235.0	3.0	0.0	Horz	QP	0.0	17.6	46.0	-28.4
403.447	17.2	0.4	3.5	142.0	3.0	0.0	Vert	QP	0.0	17.6	46.0	-28.4
403.427	17.2	0.4	3.2	26.0	3.0	0.0	Horz	QP	0.0	17.6	46.0	-28.4
401.304	17.2	0.3	1.0	332.0	3.0	0.0	Vert	QP	0.0	17.5	46.0	-28.5
1206.600	30.5	-7.4	1.0	141.0	3.0	0.0	Vert	AV	0.0	23.1	54.0	-30.9
1216.917	30.4	-7.4	3.5	343.0	3.0	0.0	Vert	AV	0.0	23.0	54.0	-31.0
1213.758	30.4	-7.4	1.0	89.0	3.0	0.0	Horz	AV	0.0	23.0	54.0	-31.0
1212.133	30.4	-7.4	3.1	315.0	3.0	0.0	Vert	AV	0.0	23.0	54.0	-31.0
1208.550	30.4	-7.4	2.0	203.0	3.0	0.0	Horz	AV	0.0	23.0	54.0	-31.0
1205.292	30.3	-7.4	1.0	277.0	3.0	0.0	Horz	AV	0.0	22.9	54.0	-31.1
1208.042	42.2	-7.4	2.0	203.0	3.0	0.0	Horz	PK	0.0	34.8	74.0	-39.2
1214.742	41.5	-7.4	1.0	89.0	3.0	0.0	Horz	PK	0.0	34.1	74.0	-39.9

RECEIVER SPURIOUS EMISSIONS

Work Order:	BSTN0405	Date:	01/24/13	
Project:	None	Temperature:	23.6 °C	
Job Site:	MN05	Humidity:	8% RH	
Serial Number:	149154	Barometric Pres.:	1039.2 mbar	
EUT:	Autogen NG3			
Configuration:	1			
Customer:	Boston Scientific Corporation			
Attendees:	Daniel Landherr			
EUT Power:	Battery			
Operating Mode:	Receiving low, mid, high channels: 402.15, 403.35, 404.85 MHz			
Deviations:	None			
Comments:	None			

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

Run #	22	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)
804.865	17.1	7.7	2.5	230.0	3.0	0.0	Horz	QP	0.0	24.8	46.0	-21.2
802.425	17.0	7.7	1.0	30.0	3.0	0.0	Vert	QP	0.0	24.7	46.0	-21.3
806.769	17.1	7.5	1.0	254.0	3.0	0.0	Horz	QP	0.0	24.6	46.0	-21.4
807.860	17.1	7.4	1.0	67.0	3.0	0.0	Vert	QP	0.0	24.5	46.0	-21.5
809.625	17.0	7.2	1.6	210.0	3.0	0.0	Horz	QP	0.0	24.2	46.0	-21.8
810.280	17.0	7.1	3.4	118.0	3.0	0.0	Vert	QP	0.0	24.1	46.0	-21.9
405.378	17.2	0.5	1.0	236.0	3.0	0.0	Horz	QP	0.0	17.7	46.0	-28.3
405.675	17.2	0.5	1.0	231.0	3.0	0.0	Vert	QP	0.0	17.7	46.0	-28.3
404.693	17.2	0.5	1.0	27.0	3.0	0.0	Vert	QP	0.0	17.7	46.0	-28.3
404.035	17.2	0.5	2.9	15.0	3.0	0.0	Horz	QP	0.0	17.7	46.0	-28.3
403.331	17.2	0.4	2.2	220.0	3.0	0.0	Horz	QP	0.0	17.6	46.0	-28.4
403.131	17.2	0.4	1.0	288.0	3.0	0.0	Vert	QP	0.0	17.6	46.0	-28.4
1216.133	30.4	-7.4	1.4	54.0	3.0	0.0	Horz	AV	0.0	23.0	54.0	-31.0
1215.575	30.4	-7.4	1.0	256.0	3.0	0.0	Vert	AV	0.0	23.0	54.0	-31.0
1207.758	30.4	-7.4	3.5	114.0	3.0	0.0	Horz	AV	0.0	23.0	54.0	-31.0
1206.675	30.4	-7.4	1.0	148.0	3.0	0.0	Horz	AV	0.0	23.0	54.0	-31.0
1206.425	30.4	-7.4	1.5	134.0	3.0	0.0	Vert	AV	0.0	23.0	54.0	-31.0
1210.825	30.3	-7.4	1.0	61.0	3.0	0.0	Vert	AV	0.0	22.9	54.0	-31.1
1208.075	41.9	-7.4	1.0	61.0	3.0	0.0	Vert	PK	0.0	34.5	74.0	-39.5
1207.508	41.6	-7.4	1.0	148.0	3.0	0.0	Horz	PK	0.0	34.2	74.0	-39.8

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 low, mid, high channels: 402.15, 403.35, 404.85 MHz

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

BSTN0405 - 1

BSTN0405 - 2

BSTN0405 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	5000 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
Spectrum Analyzer	Agilent	E4446A	AAT	6/28/2012	24 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	5/30/2012	12 mo
MN05 Cables	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	5/30/2012	12 mo
Antenna, Horn (DRG)	ETS Lindgren	3115	AIP	6/29/2011	24 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	8/28/2012	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	5/31/2012	12 mo
Antenna, Bilog	Teseq	CBL 6141B	AYD	12/17/2012	12 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

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 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. The EUT was configured to transmit in a fixture that simulates the human torso. The dimensions of the test fixture and the characteristics of the tissue substitute material met the requirements 95.627(i) and FCC KDB 617965. The height of the transmitter was 1.5-meter above the reference ground plane.

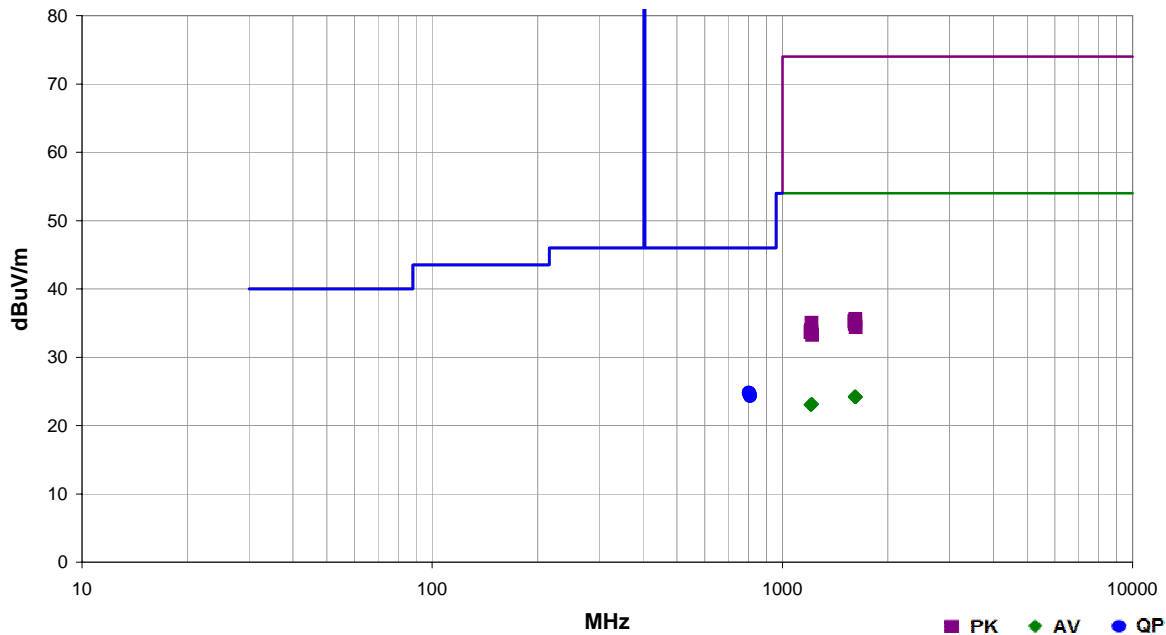


SPURIOUS RADIATED EMISSIONS

Work Order:	BSTN0405	Date:	01/23/13	
Project:	None	Temperature:	23.8 °C	
Job Site:	MN05	Humidity:	10.6% RH	
Serial Number:	149154	Barometric Pres.:	1015.9 mbar	
EUT:	Autogen NG3			
Configuration:	1			
Customer:	Boston Scientific Corporation			
Attendees:	Daniel Landherr			
EUT Power:	Battery			
Operating Mode:	Transmitting low, mid, high channels: 402.15, 403.35, 404.85 MHz			
Deviations:	None			
Comments:	None			

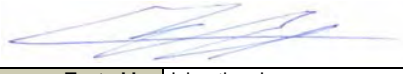
Test Specifications	FCC 951:2013	Test Method	ANSI/TIA/EIA-603-C:2004
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Run #	7	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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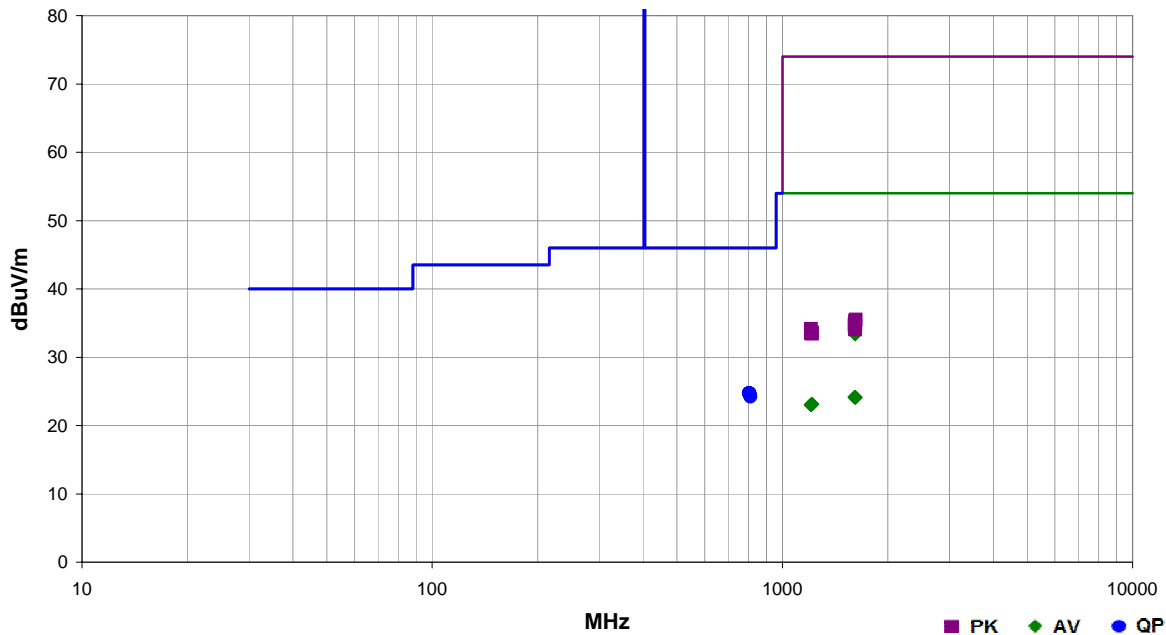
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
803.102	17.1	7.7	1.7	241.0	3.0	0.0	Vert	QP	0.0	24.8	46.0	-21.2
804.492	17.0	7.7	3.9	122.0	3.0	0.0	Horz	QP	0.0	24.7	46.0	-21.3
802.996	17.0	7.7	3.7	215.0	3.0	0.0	Vert	QP	0.0	24.7	46.0	-21.3
802.600	17.0	7.7	1.0	133.0	3.0	0.0	Vert	QP	0.0	24.7	46.0	-21.3
805.102	17.0	7.7	1.0	39.0	3.0	0.0	Horz	QP	0.0	24.7	46.0	-21.3
806.370	17.1	7.6	1.0	117.0	3.0	0.0	Horz	QP	0.0	24.7	46.0	-21.3
807.469	17.1	7.4	1.0	199.0	3.0	0.0	Vert	QP	0.0	24.5	46.0	-21.5
808.137	17.1	7.4	3.5	56.0	3.0	0.0	Horz	QP	0.0	24.5	46.0	-21.5
808.397	17.0	7.3	1.3	268.0	3.0	0.0	Vert	QP	0.0	24.3	46.0	-21.7
809.403	17.1	7.2	1.0	202.0	3.0	0.0	Horz	QP	0.0	24.3	46.0	-21.7
1615.375	30.3	-6.0	1.3	125.0	3.0	0.0	Horz	AV	0.0	24.3	54.0	-29.7
1611.050	30.3	-6.0	1.0	150.0	3.0	0.0	Vert	AV	0.0	24.3	54.0	-29.7
1620.200	30.2	-6.0	1.0	127.0	3.0	0.0	Vert	AV	0.0	24.2	54.0	-29.8
1618.392	30.2	-6.0	1.0	293.0	3.0	0.0	Horz	AV	0.0	24.2	54.0	-29.8
1614.692	30.2	-6.0	1.0	293.0	3.0	0.0	Vert	AV	0.0	24.2	54.0	-29.8
1608.867	30.2	-6.0	1.9	141.0	3.0	0.0	Horz	AV	0.0	24.2	54.0	-29.8
1213.675	30.5	-7.4	1.0	34.0	3.0	0.0	Vert	AV	0.0	23.1	54.0	-30.9
1212.592	30.5	-7.4	1.0	301.0	3.0	0.0	Vert	AV	0.0	23.1	54.0	-30.9
1212.142	30.5	-7.4	1.0	243.0	3.0	0.0	Horz	AV	0.0	23.1	54.0	-30.9
1208.925	30.5	-7.4	3.2	35.0	3.0	0.0	Horz	AV	0.0	23.1	54.0	-30.9

SPURIOUS RADIATED EMISSIONS

Work Order:	BSTN0405	Date:	01/24/13	
Project:	None	Temperature:	23.1 °C	
Job Site:	MN05	Humidity:	7.6% RH	
Serial Number:	157301	Barometric Pres.:	1039.4 mbar	
EUT:	Autogen NG3			
Configuration:	2			
Customer:	Boston Scientific Corporation			
Attendees:	Daniel Landherr			
EUT Power:	Battery			
Operating Mode:	Transmitting low, mid, high channels: 402.15, 403.35, 404.85 MHz			
Deviations:	None			
Comments:	None			

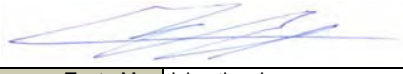
Test Specifications	FCC 951:2013	Test Method	ANSI/TIA/EIA-603-C:2004
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Run #	10	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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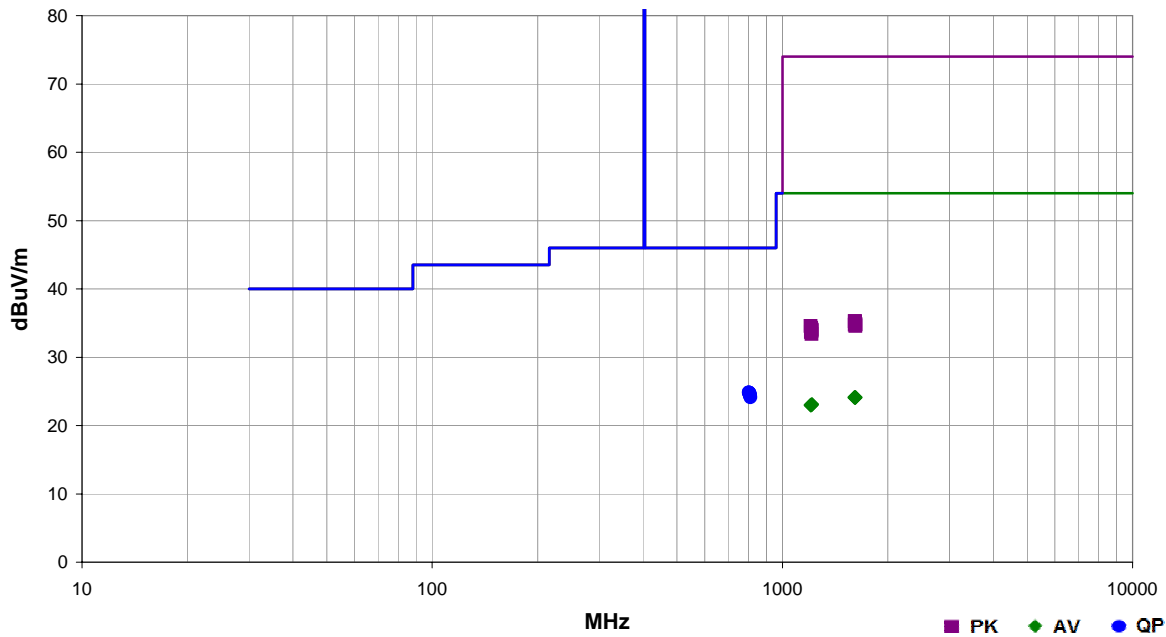
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
1615.050	39.4	-6.0	2.5	24.0	3.0	0.0	Vert	AV	0.0	33.4	54.0	-20.6
805.798	17.1	7.6	2.2	169.0	3.0	0.0	Horz	QP	0.0	24.7	46.0	-21.3
804.684	17.0	7.7	2.9	81.0	3.0	0.0	Vert	QP	0.0	24.7	46.0	-21.3
803.744	17.0	7.7	1.7	55.0	3.0	0.0	Vert	QP	0.0	24.7	46.0	-21.3
803.203	17.0	7.7	1.0	55.0	3.0	0.0	Horz	QP	0.0	24.7	46.0	-21.3
802.535	17.0	7.7	1.0	299.0	3.0	0.0	Horz	QP	0.0	24.7	46.0	-21.3
806.257	17.1	7.6	1.0	29.0	3.0	0.0	Vert	QP	0.0	24.7	46.0	-21.3
805.420	17.0	7.7	3.6	313.0	3.0	0.0	Vert	QP	0.0	24.7	46.0	-21.3
807.826	17.1	7.4	1.0	251.0	3.0	0.0	Vert	QP	0.0	24.5	46.0	-21.5
806.998	17.0	7.5	1.0	29.0	3.0	0.0	Horz	QP	0.0	24.5	46.0	-21.5
810.108	17.1	7.1	1.0	150.0	3.0	0.0	Horz	QP	0.0	24.2	46.0	-21.8
1617.583	30.2	-6.0	3.7	355.0	3.0	0.0	Horz	AV	0.0	24.2	54.0	-29.8
1608.800	30.2	-6.0	1.0	33.0	3.0	0.0	Vert	AV	0.0	24.2	54.0	-29.8
1607.000	30.2	-6.0	1.0	328.0	3.0	0.0	Horz	AV	0.0	24.2	54.0	-29.8
1617.917	30.1	-6.0	1.0	255.0	3.0	0.0	Vert	AV	0.0	24.1	54.0	-29.9
1611.942	30.1	-6.0	2.5	351.0	3.0	0.0	Horz	AV	0.0	24.1	54.0	-29.9
1216.508	30.5	-7.4	1.0	141.0	3.0	0.0	Horz	AV	0.0	23.1	54.0	-30.9
1213.783	30.5	-7.4	3.1	14.0	3.0	0.0	Vert	AV	0.0	23.1	54.0	-30.9
1212.142	30.5	-7.4	1.0	106.0	3.0	0.0	Vert	AV	0.0	23.1	54.0	-30.9
1206.458	30.5	-7.4	1.0	328.0	3.0	0.0	Horz	AV	0.0	23.1	54.0	-30.9

SPURIOUS RADIATED EMISSIONS

Work Order:	BSTN0405	Date:	01/24/13	
Project:	None	Temperature:	23.1 °C	
Job Site:	MN05	Humidity:	7.6% RH	
Serial Number:	157403	Barometric Pres.:	1039.4 mbar	
EUT:	Autogen NG3			
Configuration:	3			
Customer:	Boston Scientific Corporation			
Attendees:	Daniel Landherr			
EUT Power:	Battery			
Operating Mode:	Transmitting low, mid, high channels: 402.15, 403.35, 404.85 MHz			
Deviations:	None			
Comments:	None			

Test Specifications	FCC 951:2013	Test Method	ANSI/TIA/EIA-603-C:2004
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Run #	13	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)
804.419	17.1	7.7	2.0	226.0	3.0	0.0	Horz	QP	0.0	24.8	46.0	-21.2
802.092	17.1	7.7	1.0	253.0	3.0	0.0	Vert	QP	0.0	24.8	46.0	-21.2
801.847	17.1	7.7	1.9	162.0	3.0	0.0	Vert	QP	0.0	24.8	46.0	-21.2
805.014	17.0	7.7	1.0	76.0	3.0	0.0	Horz	QP	0.0	24.7	46.0	-21.3
805.184	17.0	7.7	2.5	66.0	3.0	0.0	Horz	QP	0.0	24.7	46.0	-21.3
806.589	17.1	7.5	1.0	140.0	3.0	0.0	Vert	QP	0.0	24.6	46.0	-21.4
807.785	17.1	7.4	3.0	332.0	3.0	0.0	Horz	QP	0.0	24.5	46.0	-21.5
807.305	17.0	7.5	1.8	254.0	3.0	0.0	Vert	QP	0.0	24.5	46.0	-21.5
808.917	17.1	7.3	2.0	42.0	3.0	0.0	Horz	QP	0.0	24.4	46.0	-21.6
810.833	17.0	7.1	1.0	226.0	3.0	0.0	Vert	QP	0.0	24.1	46.0	-21.9
1617.508	30.2	-6.0	2.2	132.0	3.0	0.0	Horz	AV	0.0	24.2	54.0	-29.8
1608.125	30.2	-6.0	1.5	103.0	3.0	0.0	Horz	AV	0.0	24.2	54.0	-29.8
1617.525	30.1	-6.0	4.0	50.0	3.0	0.0	Vert	AV	0.0	24.1	54.0	-29.9
1614.233	30.1	-6.0	1.0	108.0	3.0	0.0	Horz	AV	0.0	24.1	54.0	-29.9
1611.800	30.1	-6.0	2.7	67.0	3.0	0.0	Vert	AV	0.0	24.1	54.0	-29.9
1606.675	30.1	-6.0	1.0	195.0	3.0	0.0	Vert	AV	0.0	24.1	54.0	-29.9
1215.042	30.5	-7.4	2.0	44.0	3.0	0.0	Horz	AV	0.0	23.1	54.0	-30.9
1205.375	30.5	-7.4	1.0	304.0	3.0	0.0	Vert	AV	0.0	23.1	54.0	-30.9
1214.358	30.4	-7.4	3.4	313.0	3.0	0.0	Vert	AV	0.0	23.0	54.0	-31.0
1210.208	30.4	-7.4	1.0	210.0	3.0	0.0	Vert	AV	0.0	23.0	54.0	-31.0