



Plantronics
.Audio995H-02
FCC ID: AL8-995H02

Report #: PLNT0005.1



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: July 05, 2012

Plantronics

Model: .Audio995H-02,

FCC ID: AL8-995H02

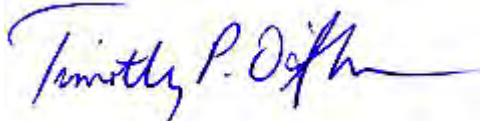
Emissions

Test Description	Specification	Test Method	Pass/Fail
Occupied Bandwidth	FCC 15.247:2012	ANSI C63.10:2009	Pass
Output Power	FCC 15.247:2012	ANSI C63.10:2009	Pass
Band Edge Compliance	FCC 15.247:2012	ANSI C63.10:2009	Pass
Spurious Conducted Emissions	FCC 15.247:2012	ANSI C63.10:2009	Pass
Power Spectral Density	FCC 15.247:2012	ANSI C63.10:2009	Pass
Duty Cycle	FCC 15.247:2012	ANSI C63.10:2009	Pass
Spurious Radiated Emissions	FCC 15.247:2012	ANSI C63.10:2009	Pass

Deviations From Test Standards

None

Approved By:



Tim O'Shea, Operations Manager



NVLAP Lab Code: 200630-0

Test Facility

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

Northwest EMC, Inc.
22975 NW Evergreen Parkway, Suite 400
Hillsboro, OR 97124

Phone: (503) 844-4066 Fax: 844-3826

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

Revision Number	Description	Date	Page Number
00	None		

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.

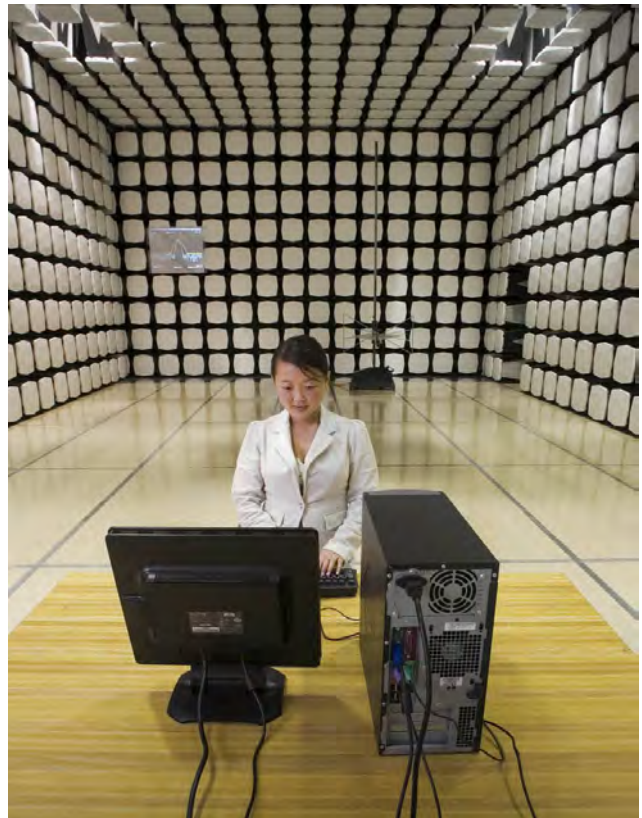
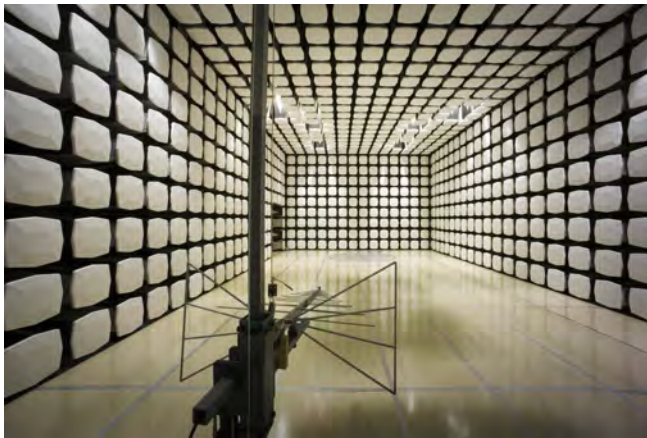
SCOPE

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

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



<p>Oregon Labs EV01-EV12 22975 NW Evergreen Pkwy, #400 Hillsboro, OR 97124 (503) 844-4066</p>	<p>California Labs OC01-OC13 41 Tesla Irvine, CA 92618 (949) 861-8918</p>	<p>New York Labs WA01-WA04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796</p>	<p>Minnesota Labs MN01-MN08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281</p>	<p>Washington Labs SU01-SU07 14128 339th Ave. SE Sultan, WA 98294 (360) 793-8675</p>
VCCI				
<p>EV01: C-1071, R-1025, G-84 EV07: C-2687, T-1658 EV11: R-2318</p>	<p>OC06: C-2766, T-1659 OC07: G-548 OC08: R-1943, G-85 OC10: A-0029</p>		<p>MN03: C-3464, T-1634 MN04: R-3125 MN05: G-141</p>	<p>SU01: C-3265, T-1511 SU02: R-871, G-83</p>
Industry Canada				
<p>2834D-1, 2834D-2</p>	<p>2834B-1, 2834B-2, 2834B-3</p>		<p>2834E-1</p>	<p>2834C-1</p>





WTD 12.5.23

PRODUCT DESCRIPTION

Client and Equipment Under Test (EUT) Information

Company Name:	Plantronics
Address:	345 Encinal Street
City, State, Zip:	Santa Cruz, CA 95060
Test Requested By:	Alvin Ilarina
Model:	.Audio995H-02, FCC ID: AL8-995H02
First Date of Test:	July 02, 2012
Last Date of Test:	July 05, 2012
Receipt Date of Samples:	July 02, 2012
Equipment Design Stage:	Preproduction
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):

DTS device operating in the 2.4 GHz band (2401.35 - 2479.35MHz). It is a consumer audio transmission device comprised of two separate units using a nearly identical radio. .Audio 995 H is a headset and .Audio 995 USB is a USB dongle.

Testing Objective:

To demonstrate compliance under FCC 15.247.

Configuration 1 PLNT0005

Software/Firmware Running during test	
Description	Version
VMldebug	1.1.6.38

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Wireless Headset - Direct Connect	Plantronics	.Audio995H-02	Headset 01

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Remote PC	Dell	Inspiron 6000	DZ88H81

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB	Yes	3.0m	No	Wireless Audio Device	Remote PC

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

Configuration 3 PLNT0005

Software/Firmware Running during test	
Description	Version
VMldebug	1.1.6.38

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Wireless Headset	Plantronics	.Audio995H-02	Headset 02

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Remote PC	Dell	Inspiron 6000	DZ88H81

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB	Yes	4.5m	Yes	Wireless Audio Device	Remote PC

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	7/2/2012	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.
2	7/2/2012	Occupied 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	7/2/2012	Band Edge Compliance	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	7/2/2012	Power Spectral Density	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	7/2/2012	Spurious 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.
6	7/2/2012	Duty Cycle	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	7/5/2012	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Occupied 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
Spectrum Analyzer	Agilent	E4440	AFE	1/23/2012	12
40GHz DC Block	Miteq	DCB4000	AMD	6/25/2012	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	8/2/2011	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	24
MXG Vector Signal Generator	Agilent	N5182A	TIF	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

The occupied bandwidth 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 the spectrum analyzer. The EUT was transmitting in its only modulation available.

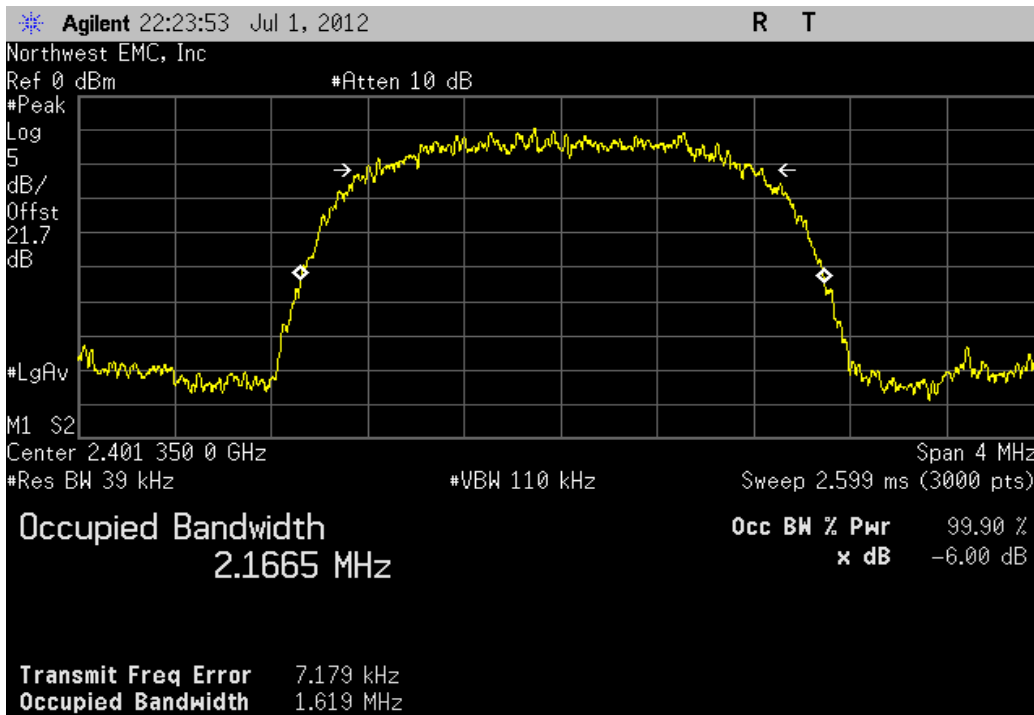


Occupied Bandwidth

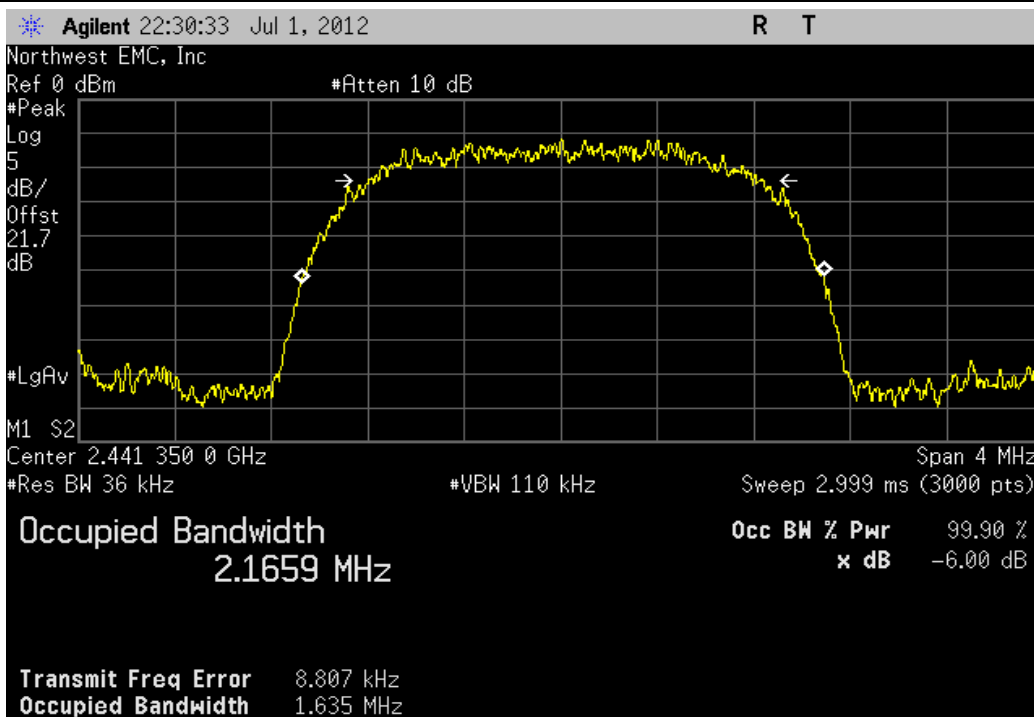
XMit 2012.05.09
PsaTx 2012.05.24

EUT: Audio995H-02, FCC ID: AL8-995H02		Work Order: PLNT0005
Serial Number: Headset 01		Date: 07/02/12
Customer: Plantronics		Temperature: 23.6°C
Attendees: Sarmad Hannosh		Humidity: 45%
Project: None		Barometric Pres.: 1015.7
Tested by: Rod Peloquin	Power: USB	Job Site: EV06
TEST SPECIFICATIONS		Test Method
FCC 15.247:2012		ANSI C63.10:2009
COMMENTS		
Transmitting at 100% duty cycle		
DEVIATIONS FROM TEST STANDARD		
None		
Configuration #	1	<i>Rodry Le Peloy</i> Signature
		Value Limit Result
Tx Port Ant 0		
Low Channel 0, 2401.35	1.619 MHz	> 500 kHz Pass
Mid Channel 20, 2441.35	1.635 MHz	> 500 kHz Pass
High Channel 39, 2479.35	1.602 MHz	> 500 kHz Pass
Tx Port Ant 1		
Low Channel 0, 2401.35	1.432 MHz	> 500 kHz Pass
Mid Channel 20, 2441.35	1.556 MHz	> 500 kHz Pass
High Channel 39, 2479.35	1.634 MHz	> 500 kHz Pass

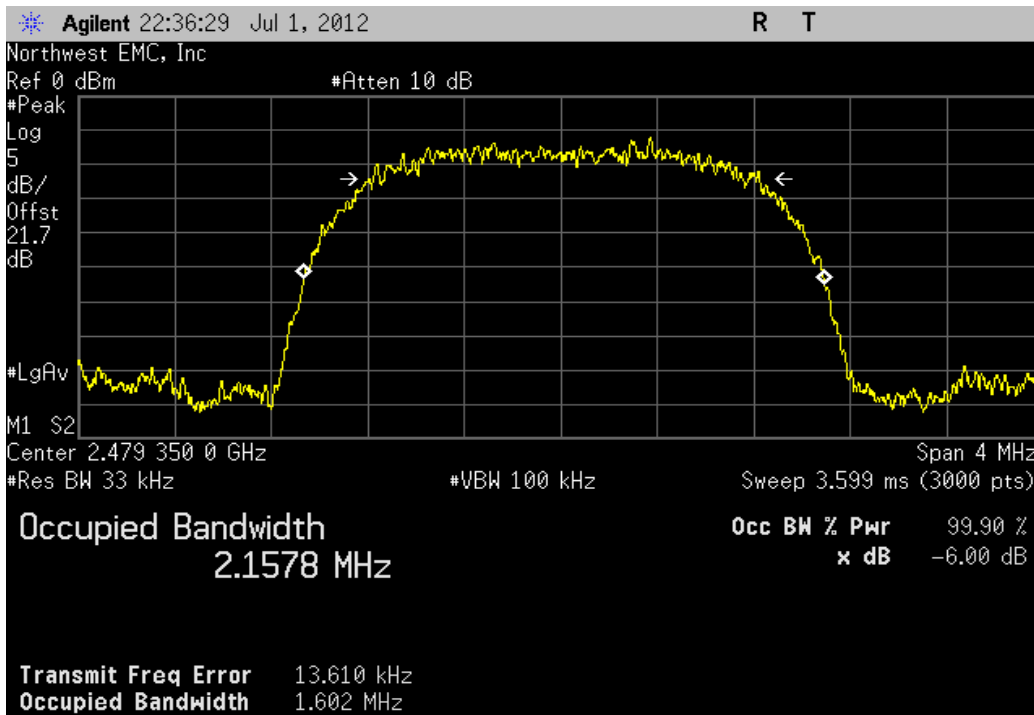
Tx Port Ant 0, Low Channel 0, 2401.35			
	Value	Limit	Result
	1.619 MHz	> 500 kHz	Pass



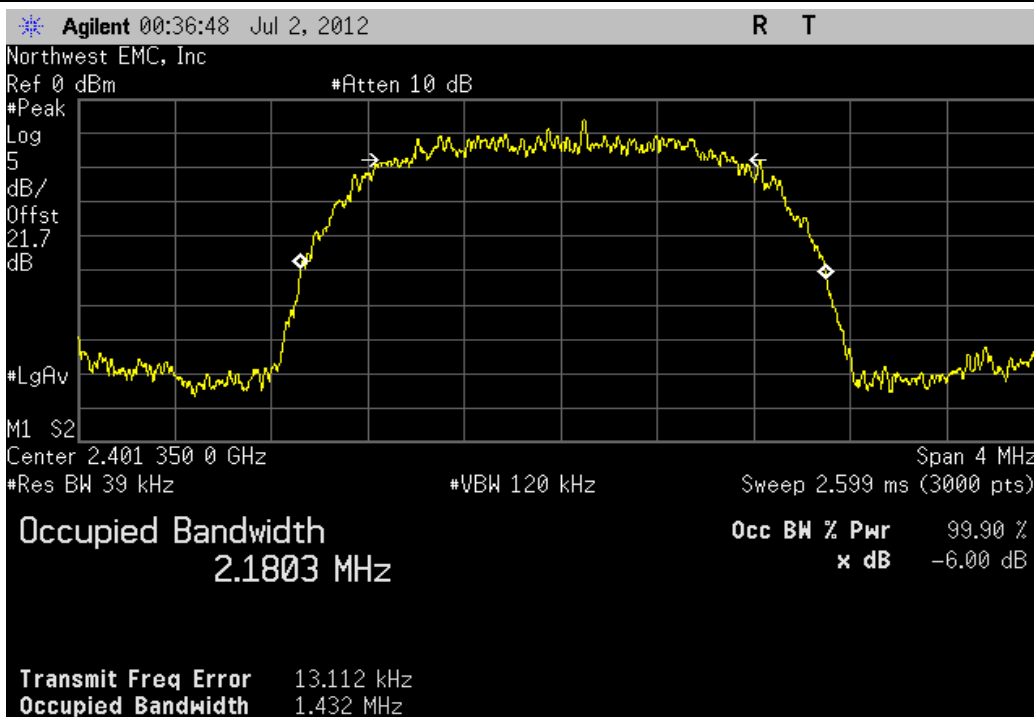
Tx Port Ant 0, Mid Channel 20, 2441.35			
	Value	Limit	Result
	1.635 MHz	> 500 kHz	Pass



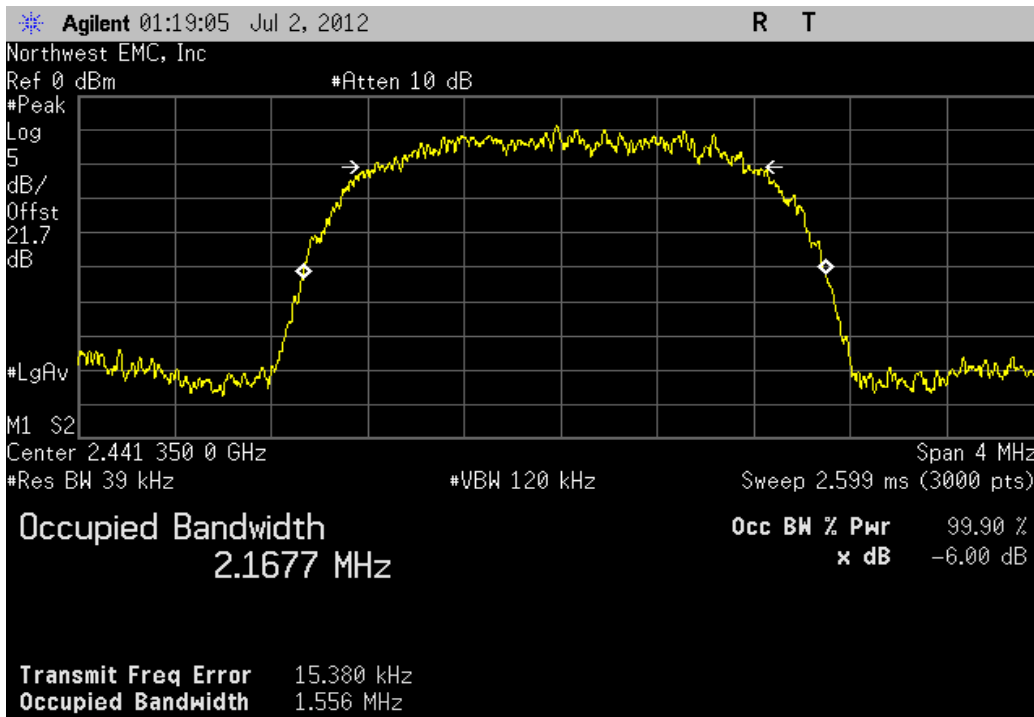
Tx Port Ant 0, High Channel 39, 2479.35			
	Value	Limit	Result
	1.602 MHz	> 500 kHz	Pass



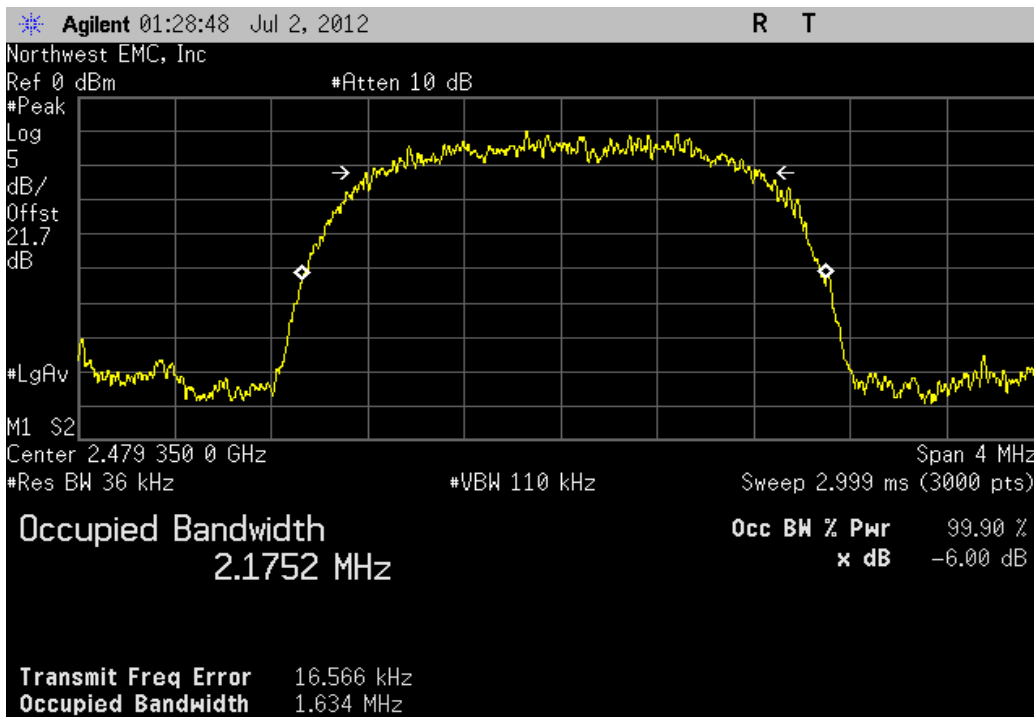
Tx Port Ant 1, Low Channel 0, 2401.35			
	Value	Limit	Result
	1.432 MHz	> 500 kHz	Pass



Tx Port Ant 1, Mid Channel 20, 2441.35			
	Value	Limit	Result
	1.556 MHz	> 500 kHz	Pass



Tx Port Ant 1, High Channel 39, 2479.35			
	Value	Limit	Result
	1.634 MHz	> 500 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
Spectrum Analyzer	Agilent	E4440	AFE	1/23/2012	12
40GHz DC Block	Miteq	DCB4000	AMD	6/25/2012	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	8/2/2011	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	24
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
MXG Vector Signal Generator	Agilent	N5182A	TIF	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

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 in the only modulation available.

De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36dBm.

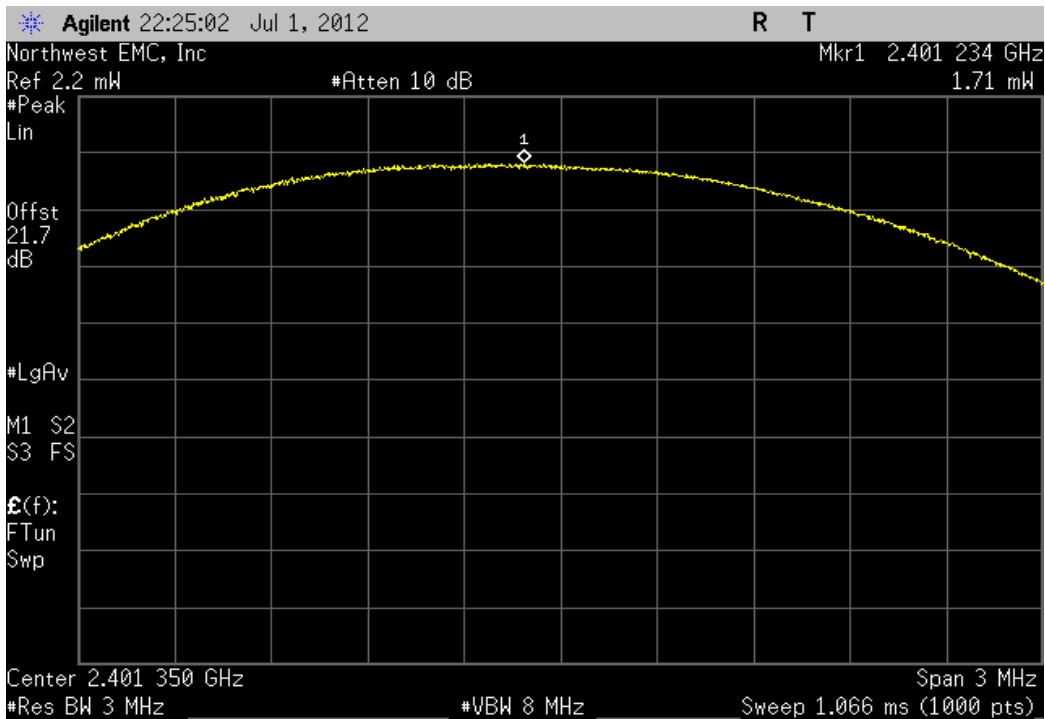


Output Power

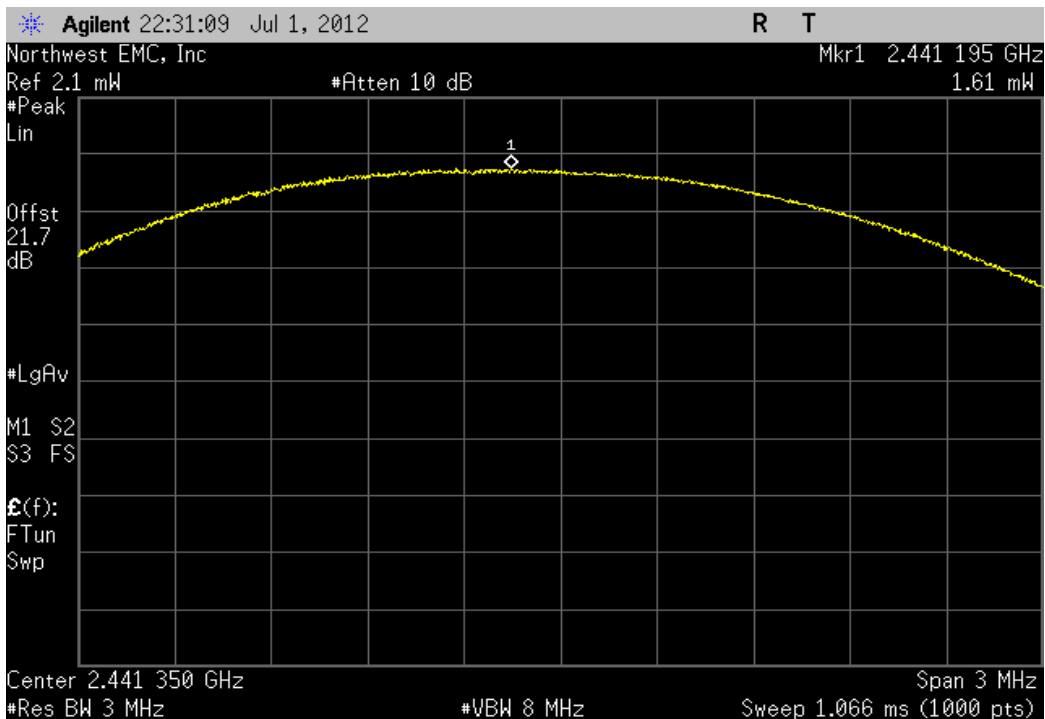
XMit 2012.05.09
PsaTx 2012.05.24

EUT: Audio995H-02, FCC ID: AL8-995H02		Work Order: PLNT0005	
Serial Number: Headset 01		Date: 07/02/12	
Customer: Plantronics		Temperature: 23.6°C	
Attendees: Sarmad Hannosh		Humidity: 45%	
Project: None		Barometric Pres.: 1015.7	
Tested by: Rod Peloquin		Power: USB	
Job Site: EV06		Test Method	
TEST SPECIFICATIONS		FCC 15.247:2012	
ANSI C63.10:2009			
COMMENTS			
Transmitting at 100% duty cycle			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature <i>Rodry Le Peloy</i>	
		Value	Limit
Tx Port Ant 0			
	Low Channel 0, 2401.35	1.71 mW	< 1 W
	Mid Channel 20, 2441.35	1.606 mW	< 1 W
	High Channel 39, 2479.35	1.509 mW	< 1 W
Tx Port Ant 1			
	Low Channel 0, 2401.35	1.884 mW	< 1 W
	Mid Channel 20, 2441.35	1.771 mW	< 1 W
	High Channel 39, 2479.35	1.683 mW	< 1 W
		Result	Pass

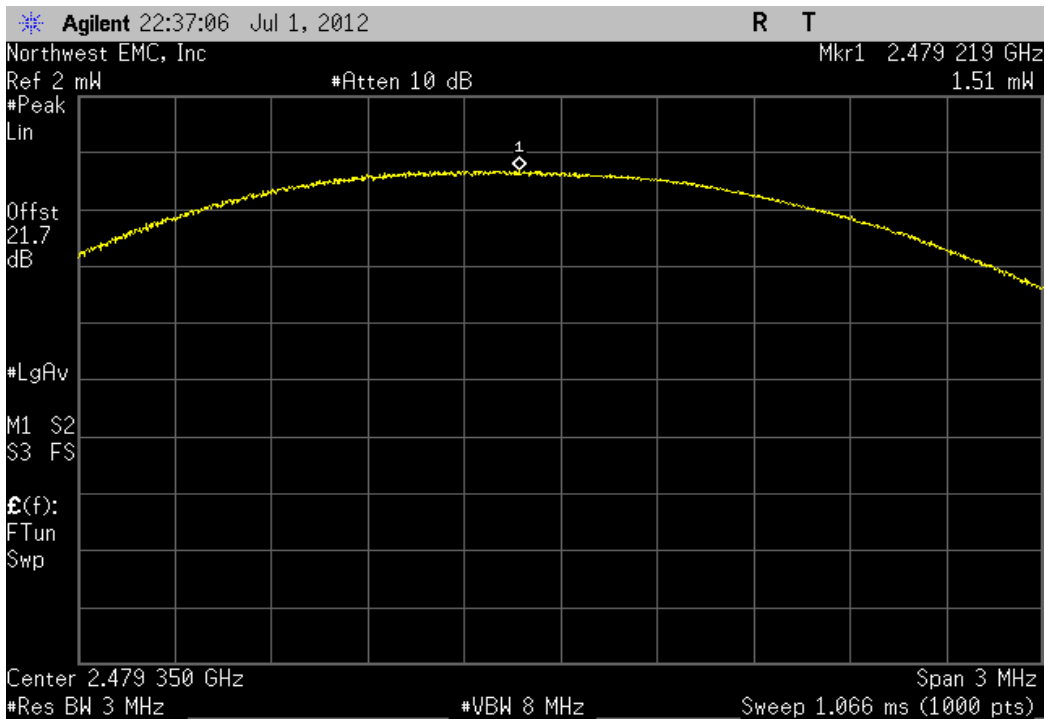
Tx Port Ant 0, Low Channel 0, 2401.35			
	Value	Limit	Result
	1.71 mW	< 1 W	Pass



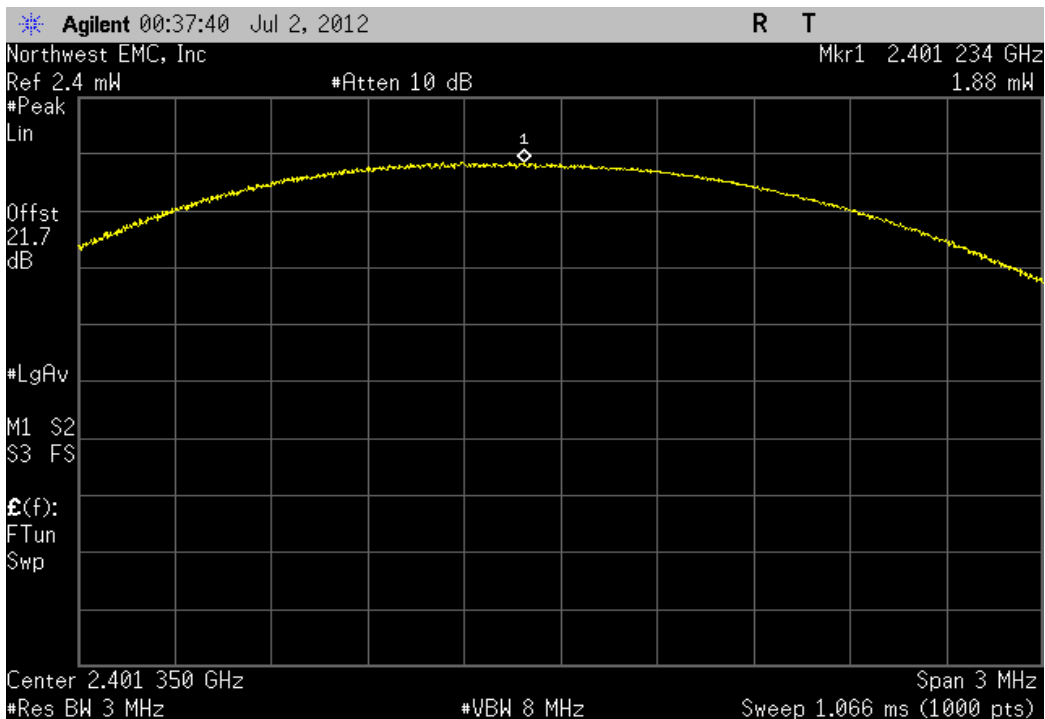
Tx Port Ant 0, Mid Channel 20, 2441.35			
	Value	Limit	Result
	1.606 mW	< 1 W	Pass



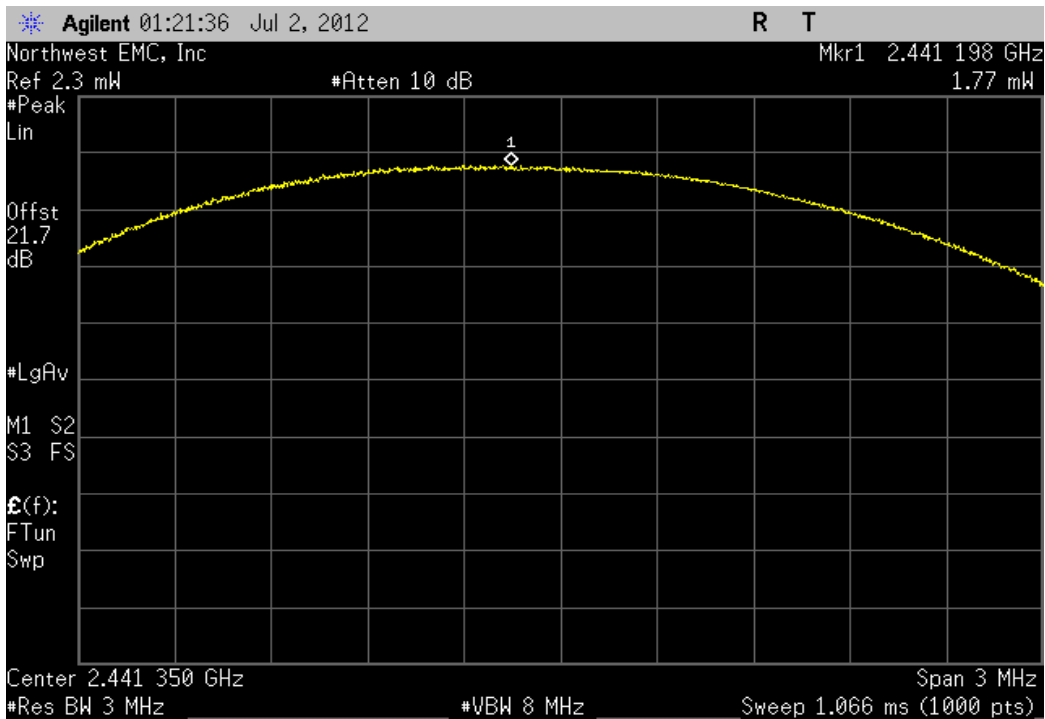
Tx Port Ant 0, High Channel 39, 2479.35			
	Value	Limit	Result
	1.509 mW	< 1 W	Pass



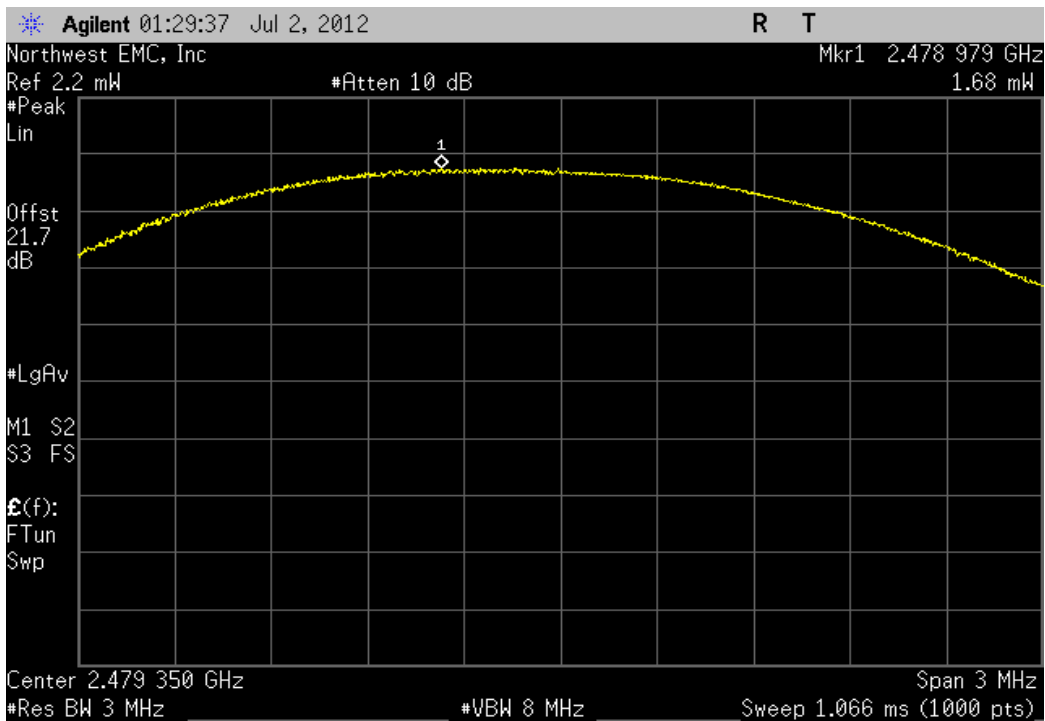
Tx Port Ant 1, Low Channel 0, 2401.35			
	Value	Limit	Result
	1.884 mW	< 1 W	Pass



Tx Port Ant 1, Mid Channel 20, 2441.35			
	Value	Limit	Result
	1.771 mW	< 1 W	Pass



Tx Port Ant 1, High Channel 39, 2479.35			
	Value	Limit	Result
	1.683 mW	< 1 W	Pass



Band Edge Compliance

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
Spectrum Analyzer	Agilent	E4440	AFE	1/23/2012	12
40GHz DC Block	Miteq	DCB4000	AMD	6/25/2012	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	8/2/2011	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	24
MXG Vector Signal Generator	Agilent	N5182A	TIF	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

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the only modulation available.

The spectrum was scanned below the lower band edge and above the higher band edge.

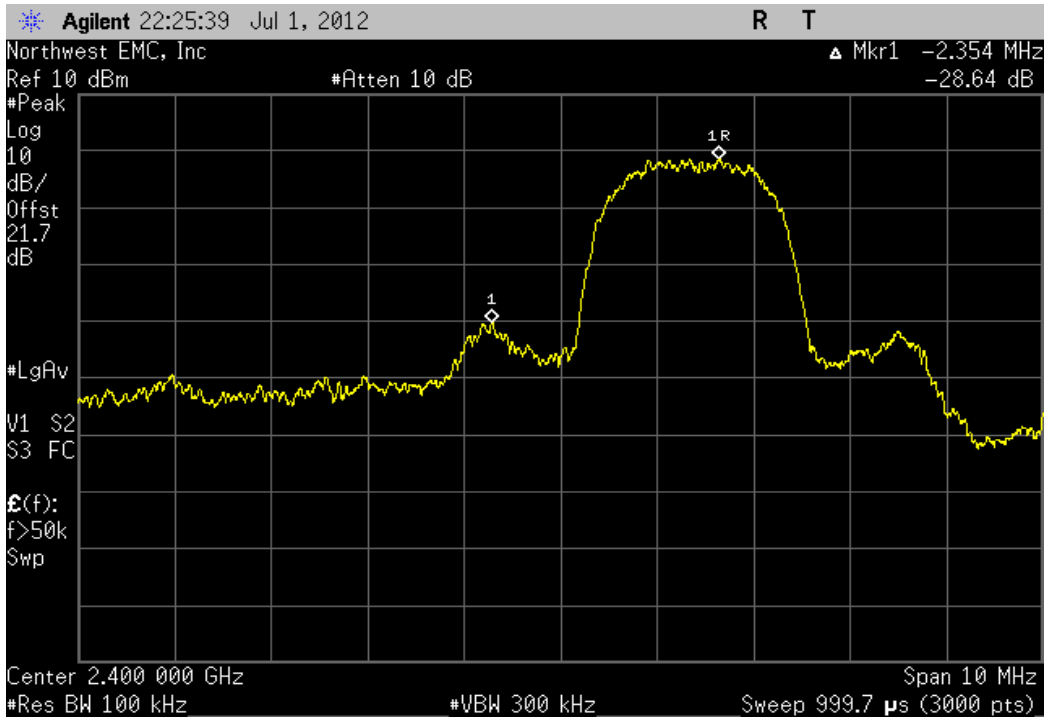


Band Edge Compliance

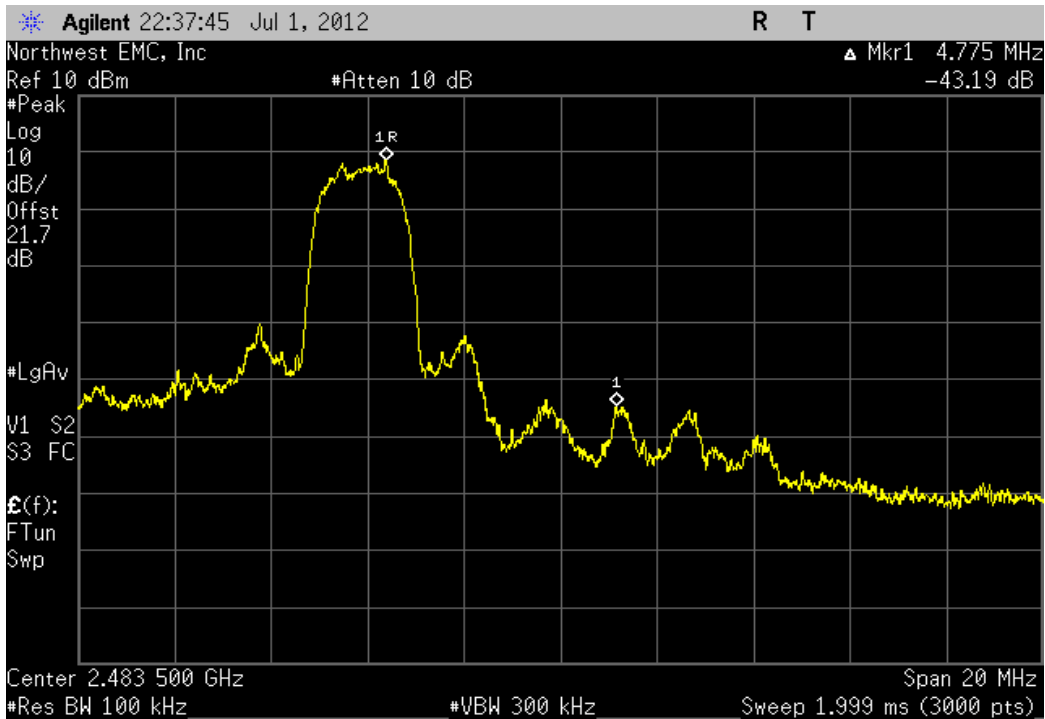
XMit 2012.05.09
PsaTx 2012.05.24

EUT: Audio995H-02, FCC ID: AL8-995H02		Work Order: PLNT0005
Serial Number: Headset 01		Date: 07/02/12
Customer: Plantronics		Temperature: 23.6°C
Attendees: Sarmad Hannosh		Humidity: 45%
Project: None		Barometric Pres.: 1015.7
Tested by: Rod Peloquin	Power: USB	Job Site: EV06
TEST SPECIFICATIONS		Test Method
FCC 15.247:2012		ANSI C63.10:2009
COMMENTS		
Transmitting at 100% duty cycle		
DEVIATIONS FROM TEST STANDARD		
None		
Configuration #	1	<i>Rodry Le Peloy</i> Signature
		Value Limit Result
Tx Port Ant 0		
	Low Channel 0, 2401.35	-28.64 dBc ≤ -20 dBc Pass
	High Channel 39, 2479.35	-43.19 dBc ≤ -20 dBc Pass
Tx Port Ant 1		
	Low Channel 0, 2401.35	-29.85 dBc ≤ -20 dBc Pass
	High Channel 39, 2479.35	-43.1 dBc ≤ -20 dBc Pass

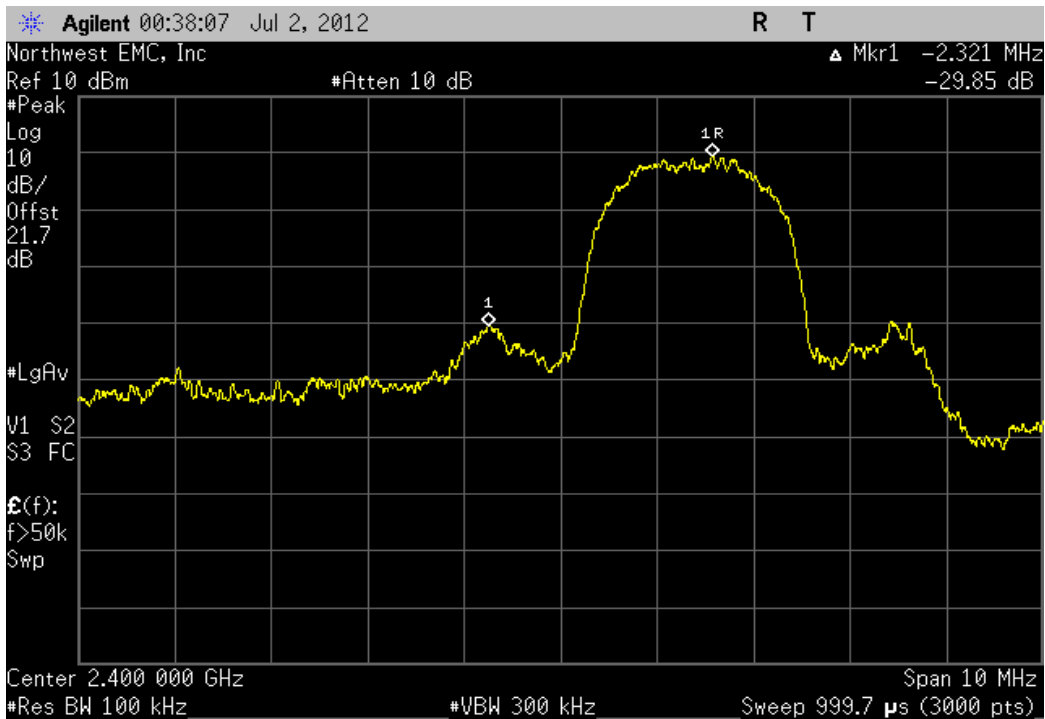
Tx Port Ant 0, Low Channel 0, 2401.35			
	Value	Limit	Result
	-28.64 dBc	≤ -20 dBc	Pass



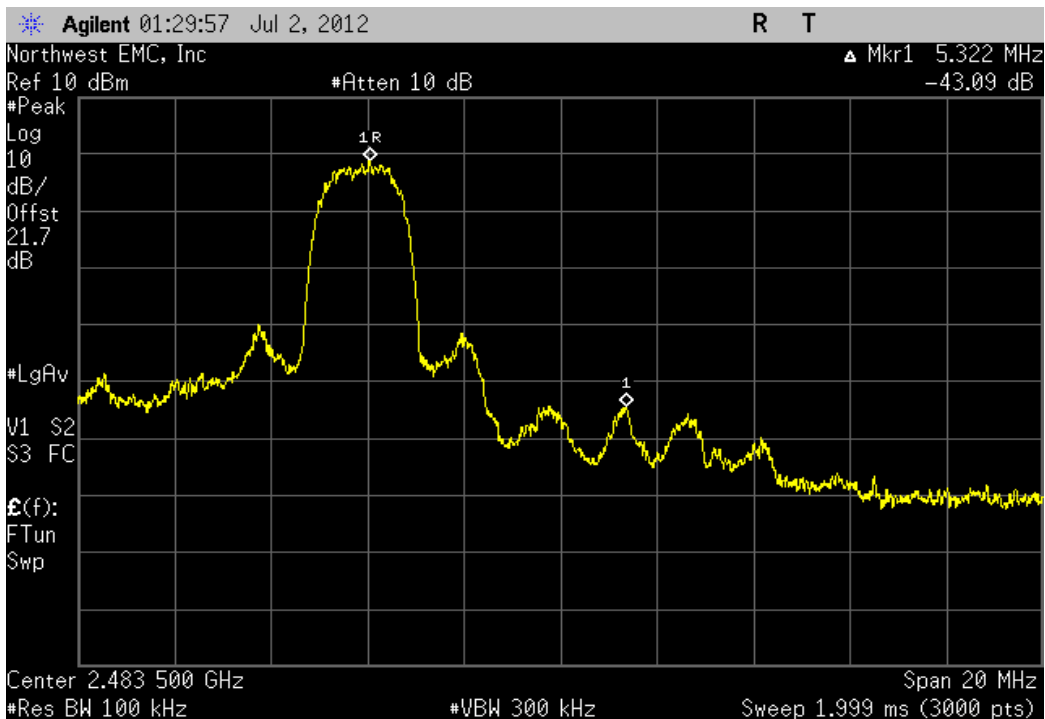
Tx Port Ant 0, High Channel 39, 2479.35			
	Value	Limit	Result
	-43.19 dBc	≤ -20 dBc	Pass



Tx Port Ant 1, Low Channel 0, 2401.35			
	Value	Limit	Result
	-29.85 dBc	≤ -20 dBc	Pass



Tx Port Ant 1, High Channel 39, 2479.35			
	Value	Limit	Result
	-43.1 dBc	≤ -20 dBc	Pass



Spurious Conducted Emissions

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

TEST EQUIPMENT

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40GHz DC Block	Miteq	DCB4000	AMD	6/25/2012	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	8/2/2011	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	24
MXG Vector Signal Generator	Agilent	N5182A	TIF	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

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the only modulation available. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.



Spurious Conducted Emissions

XMit 2012.05.09
PsaTx 2012.05.24

EUT: Audio995H-02, FCC ID: AL8-995H02		Work Order: PLNT0005
Serial Number: Headset 01		Date: 07/02/12
Customer: Plantronics		Temperature: 23.6°C
Attendees: Sarmad Hannosh		Humidity: 45%
Project: None		Barometric Pres.: 1015.7
Tested by: Rod Peloquin	Power: USB	Job Site: EV06

TEST SPECIFICATIONS		Test Method
FCC 15.247:2012		ANSI C63.10:2009

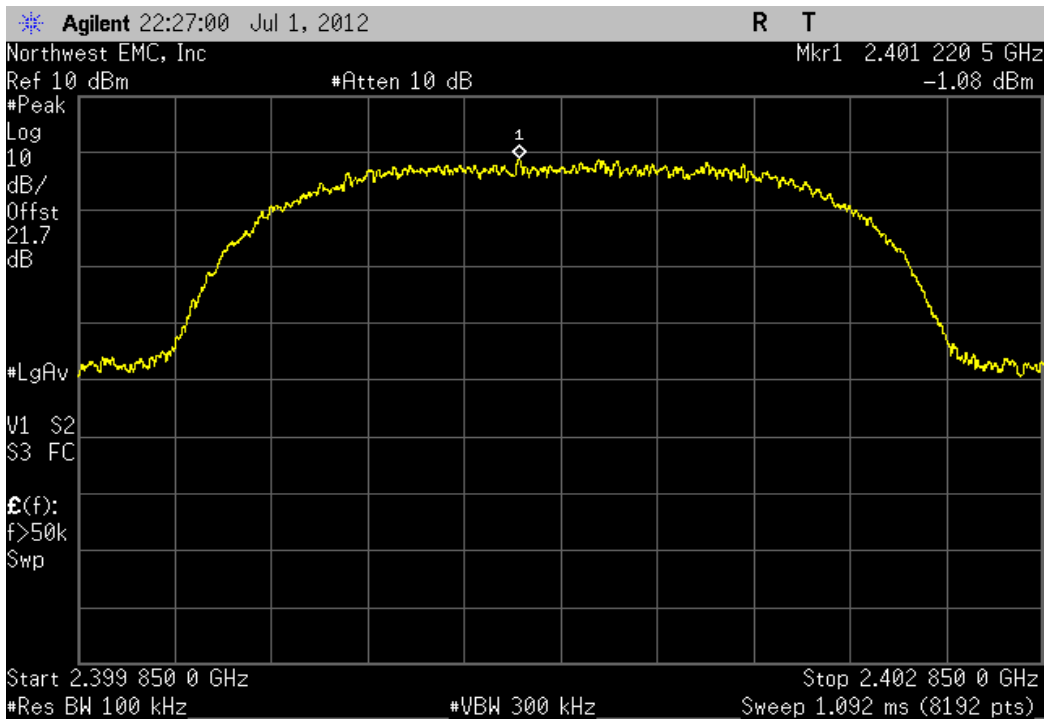
COMMENTS
Transmitting at 100% duty cycle

DEVIATIONS FROM TEST STANDARD
None

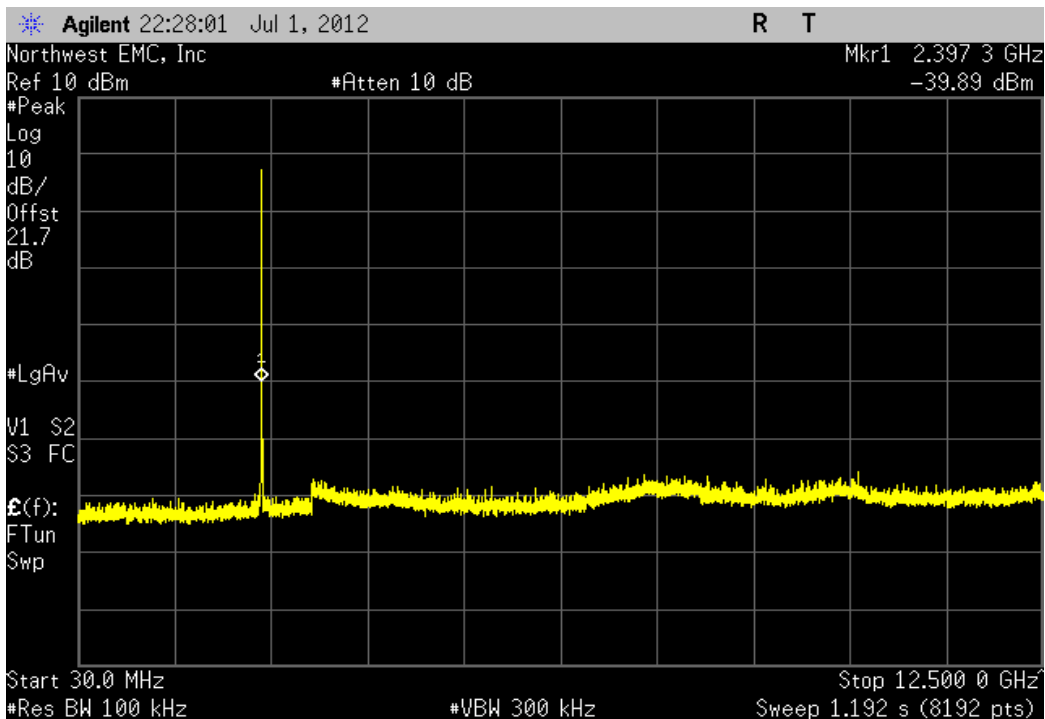
Configuration #	1	Signature <i>Rod Peloquin</i>
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		Frequency Range	Value	Limit	Result
Tx Port Ant 0					
	Low Channel 0, 2401.35	Fundamental	N/A	N/A	N/A
	Low Channel 0, 2401.35	30 MHz - 12.5 GHz	-38.81 dBc	≤ -20 dBc	Pass
	Low Channel 0, 2401.35	12.5 GHz - 25 GHz	-51.79 dBc	≤ -20 dBc	Pass
	Mid Channel 20, 2441.35	Fundamental	N/A	N/A	N/A
	Mid Channel 20, 2441.35	30 MHz - 12.5 GHz	-54.78 dBc	≤ -20 dBc	Pass
	Mid Channel 20, 2441.35	12.5 GHz - 25 GHz	-52.16 dBc	≤ -20 dBc	Pass
	High Channel 39, 2479.35	Fundamental	N/A	N/A	N/A
	High Channel 39, 2479.35	30 MHz - 12.5 GHz	-53.53 dBc	≤ -20 dBc	Pass
	High Channel 39, 2479.35	12.5 GHz - 25 GHz	-50.8 dBc	≤ -20 dBc	Pass
Tx Port Ant 1					
	Low Channel 0, 2401.35	Fundamental	N/A	N/A	N/A
	Low Channel 0, 2401.35	30 MHz - 12.5 GHz	-38.17 dBc	≤ -20 dBc	Pass
	Low Channel 0, 2401.35	12.5 GHz - 25 GHz	-52.45 dBc	≤ -20 dBc	Pass
	Mid Channel 20, 2441.35	Fundamental	N/A	N/A	N/A
	Mid Channel 20, 2441.35	30 MHz - 12.5 GHz	-55.08 dBc	≤ -20 dBc	Pass
	Mid Channel 20, 2441.35	12.5 GHz - 25 GHz	-51.4 dBc	≤ -20 dBc	Pass
	High Channel 39, 2479.35	Fundamental	N/A	N/A	N/A
	High Channel 39, 2479.35	30 MHz - 12.5 GHz	-54.78 dBc	≤ -20 dBc	Pass
	High Channel 39, 2479.35	12.5 GHz - 25 GHz	-51.79 dBc	≤ -20 dBc	Pass

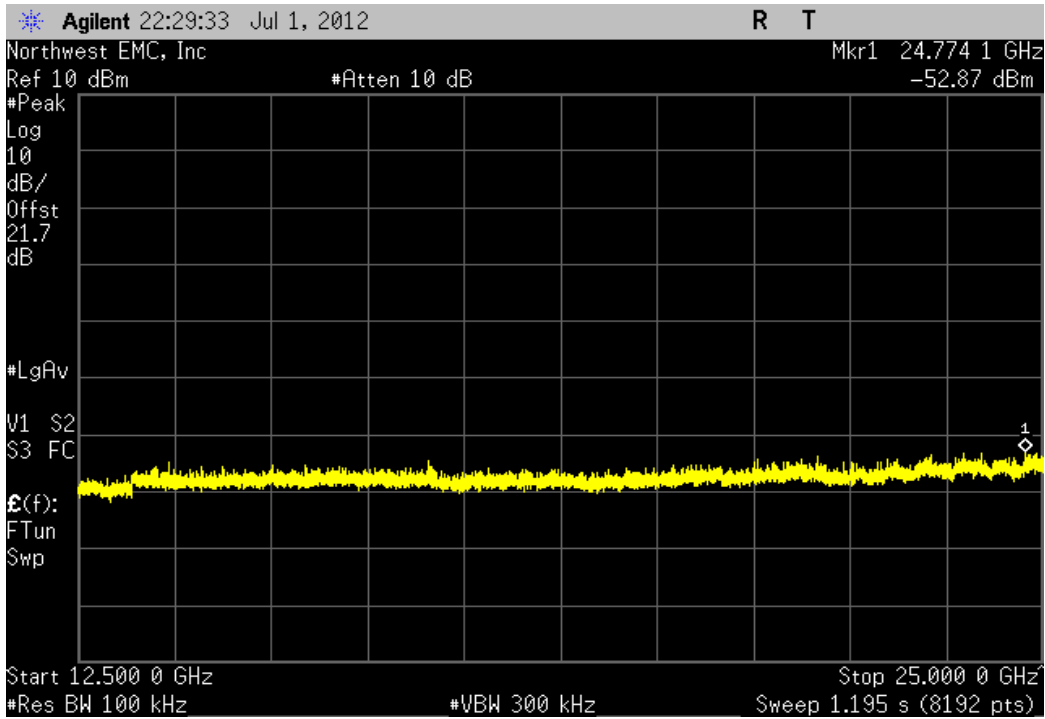
Tx Port Ant 0, Low Channel 0, 2401.35				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



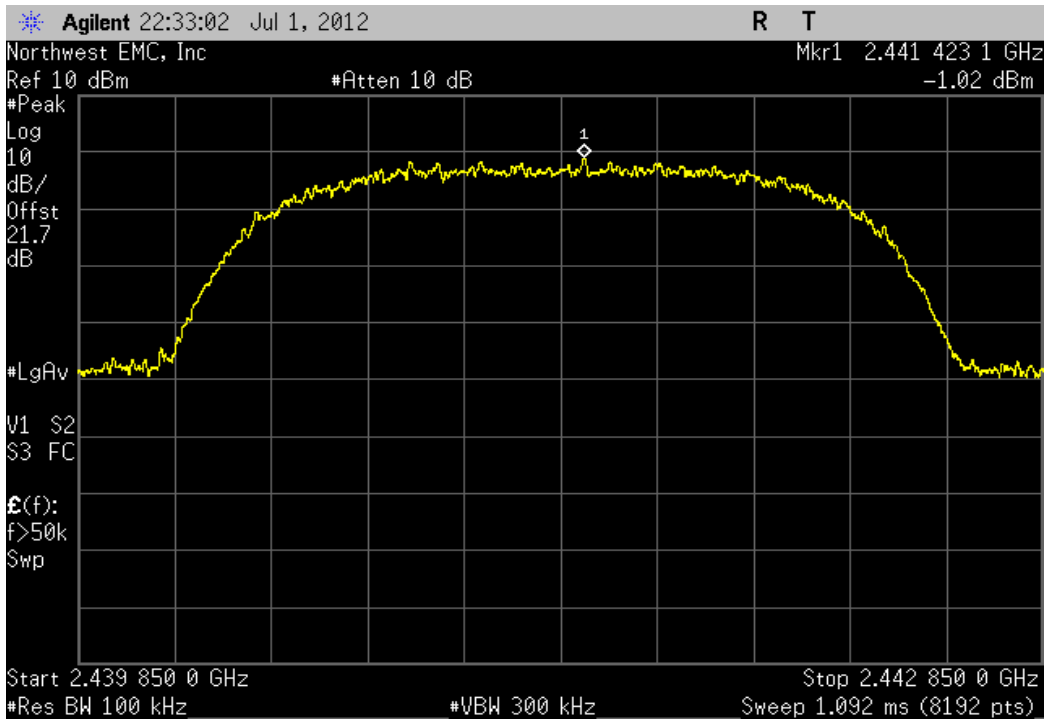
Tx Port Ant 0, Low Channel 0, 2401.35				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-38.81 dBc	≤ -20 dBc	Pass	



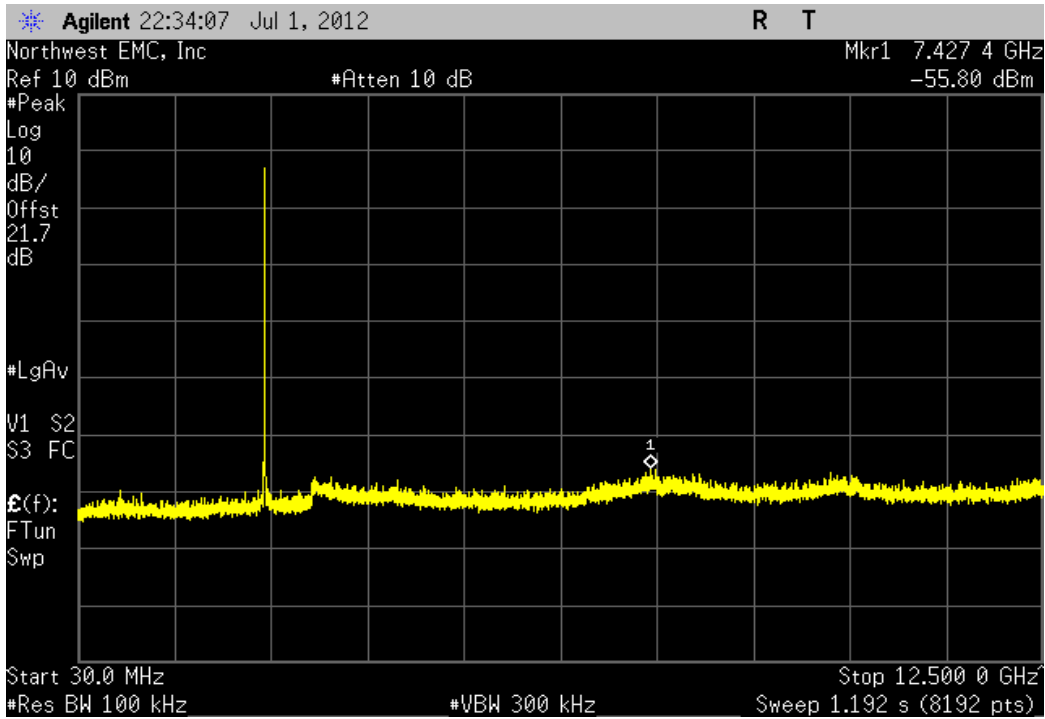
Tx Port Ant 0, Low Channel 0, 2401.35			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-51.79 dBc	≤ -20 dBc	Pass



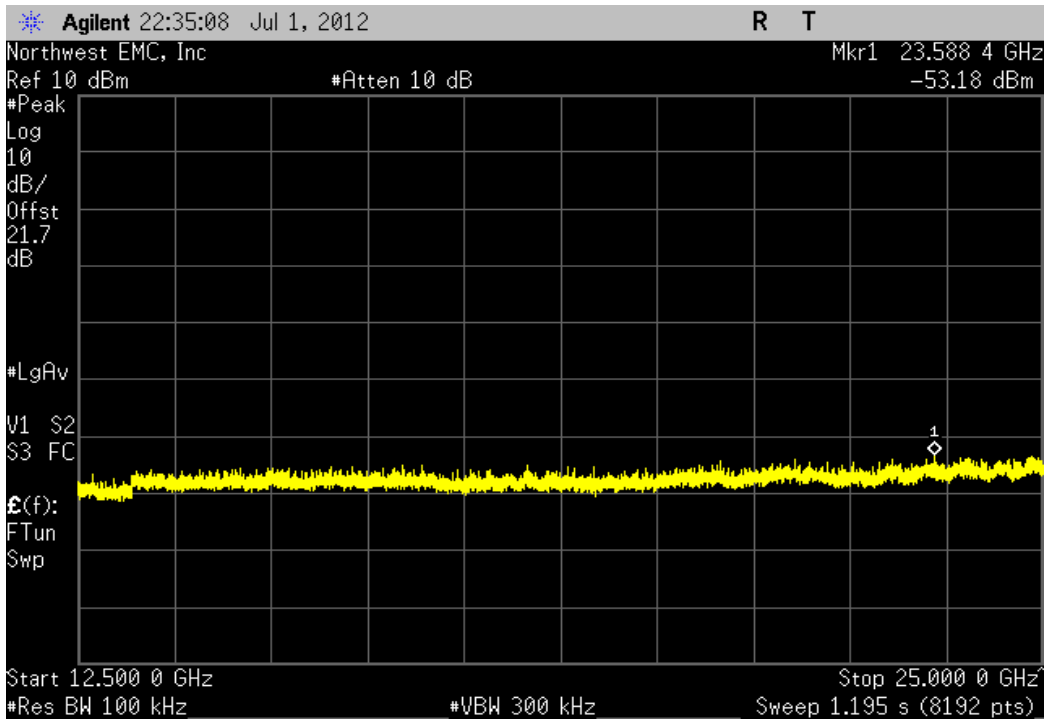
Tx Port Ant 0, Mid Channel 20, 2441.35			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



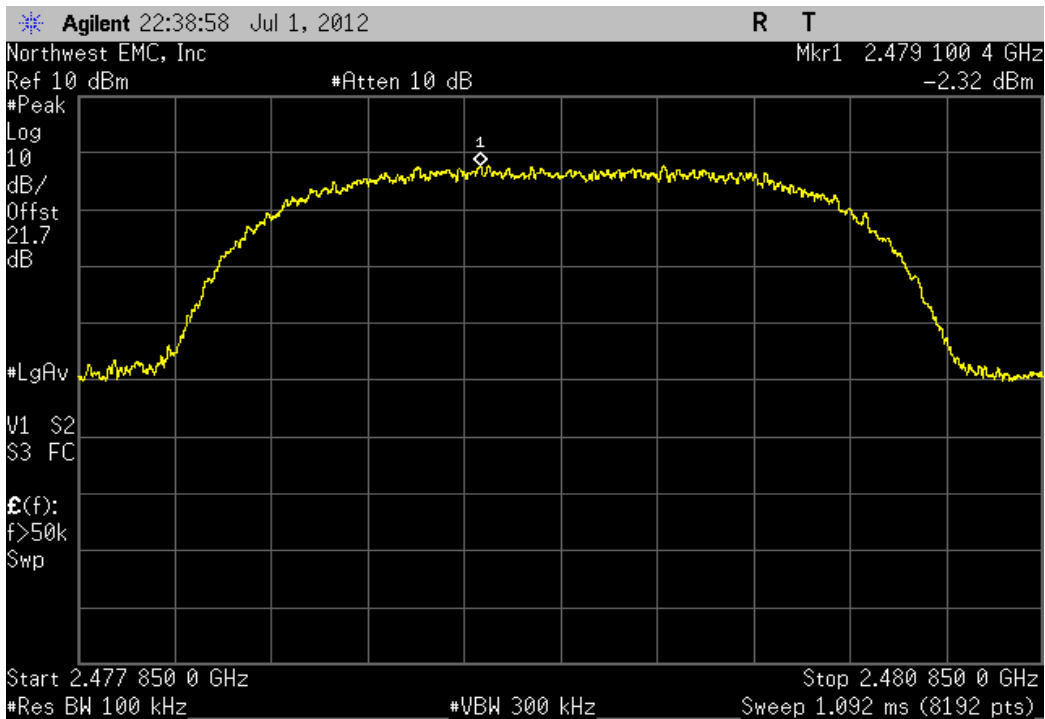
Tx Port Ant 0, Mid Channel 20, 2441.35			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-54.78 dBc	≤ -20 dBc	Pass



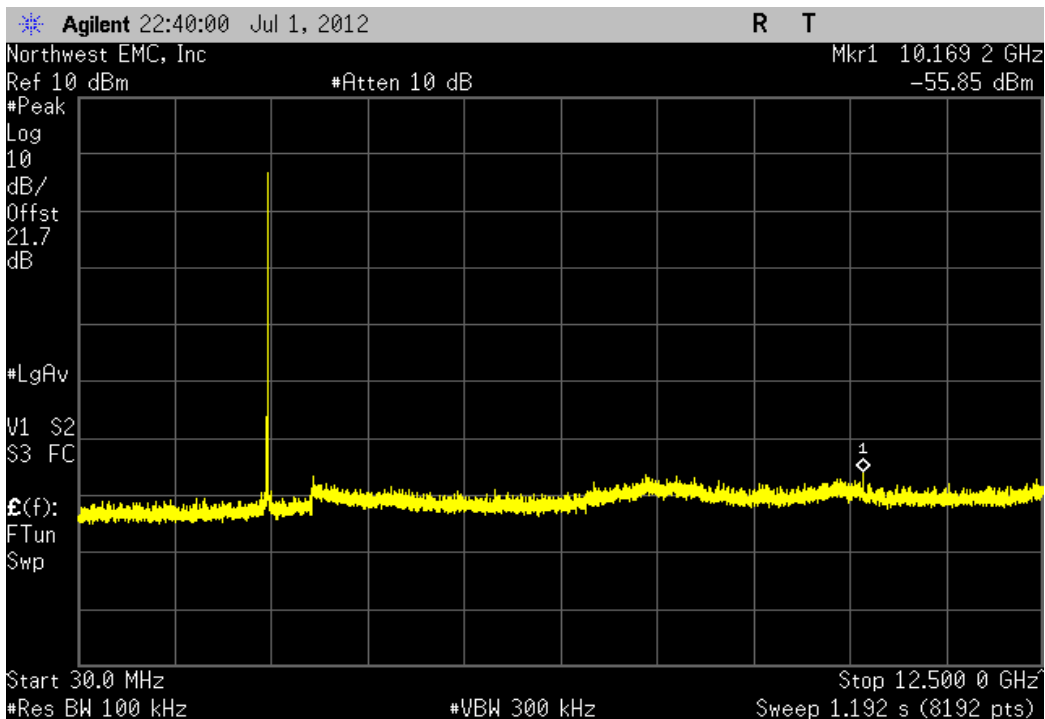
Tx Port Ant 0, Mid Channel 20, 2441.35			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-52.16 dBc	≤ -20 dBc	Pass



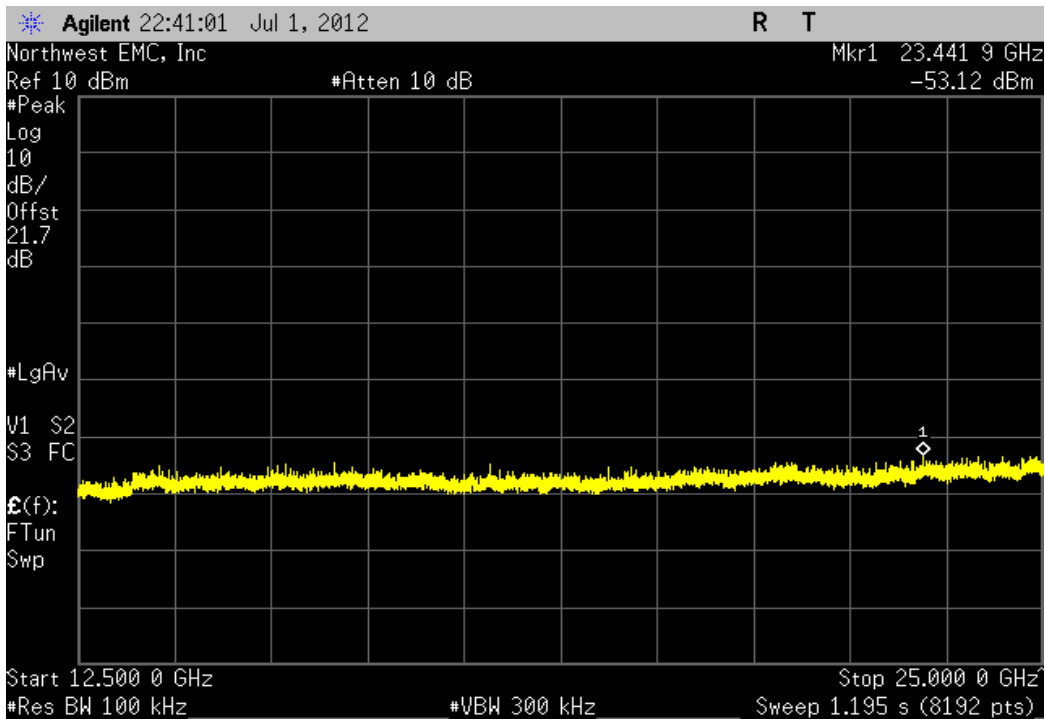
Tx Port Ant 0, High Channel 39, 2479.35				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



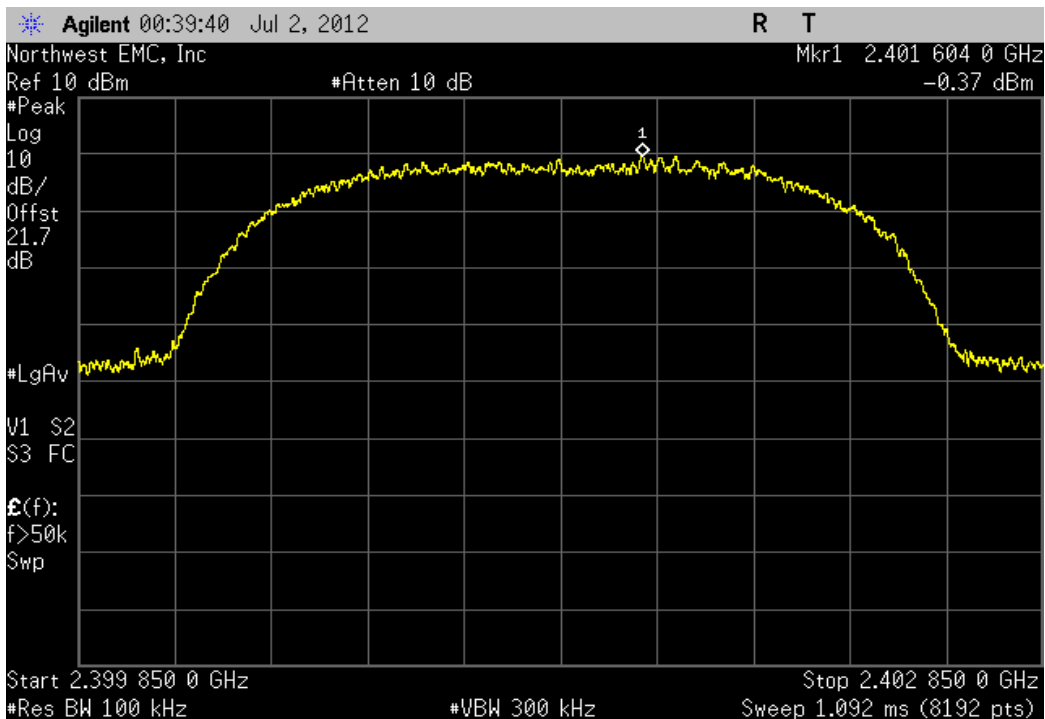
Tx Port Ant 0, High Channel 39, 2479.35				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-53.53 dBc	≤ -20 dBc	Pass	



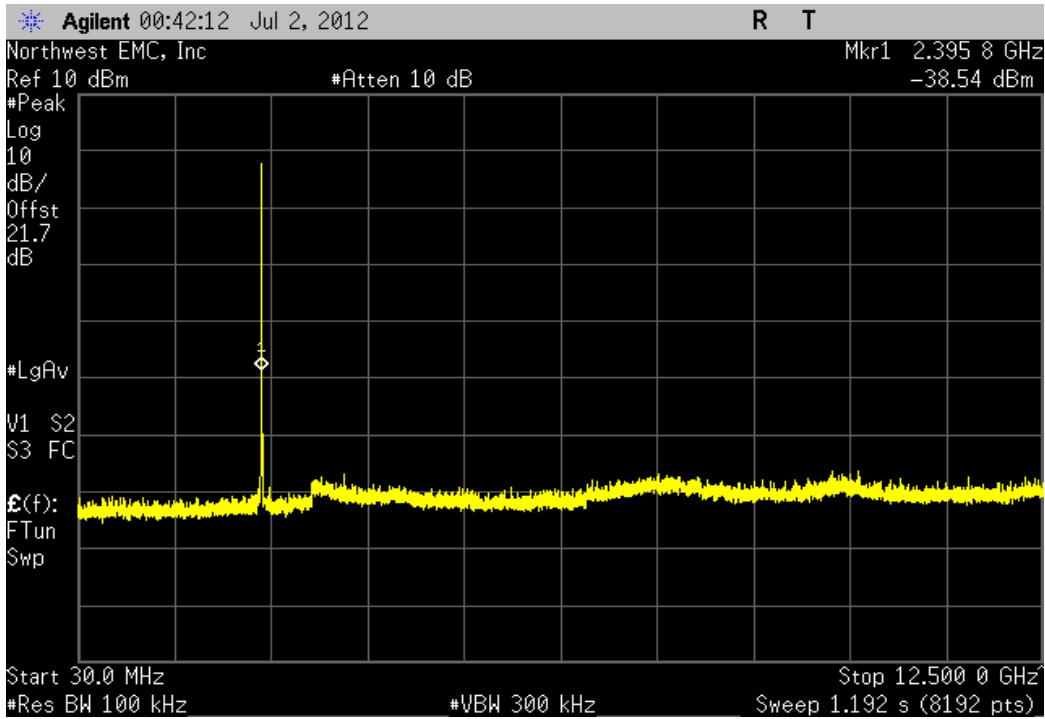
Tx Port Ant 0, High Channel 39, 2479.35			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-50.8 dBc	≤ -20 dBc	Pass



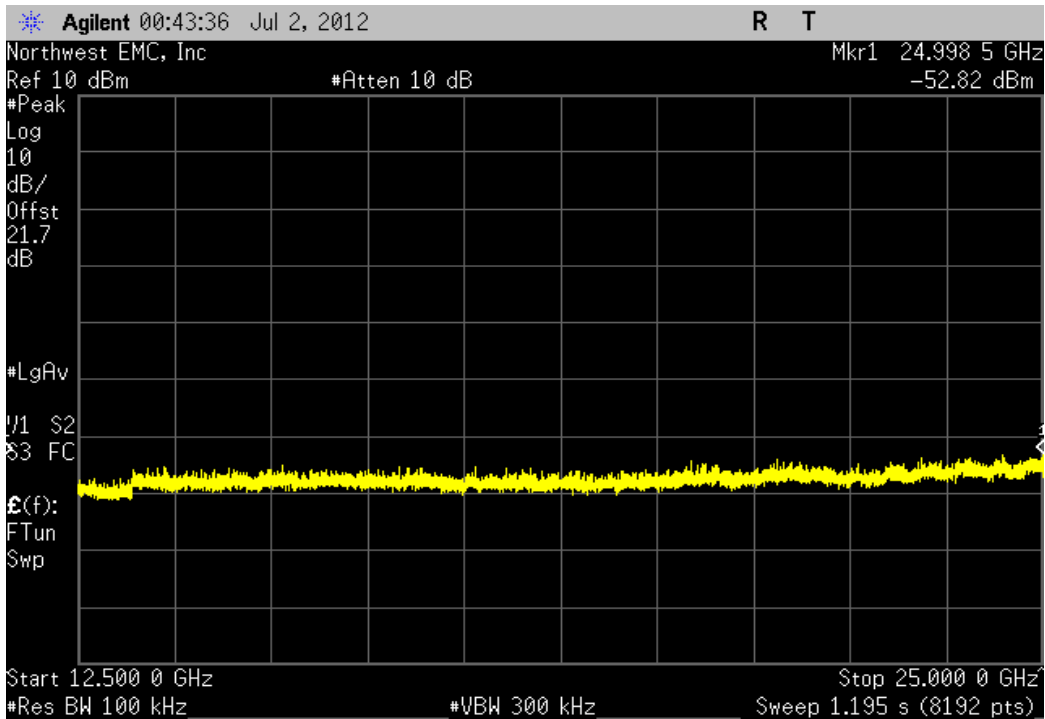
Tx Port Ant 1, Low Channel 0, 2401.35			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



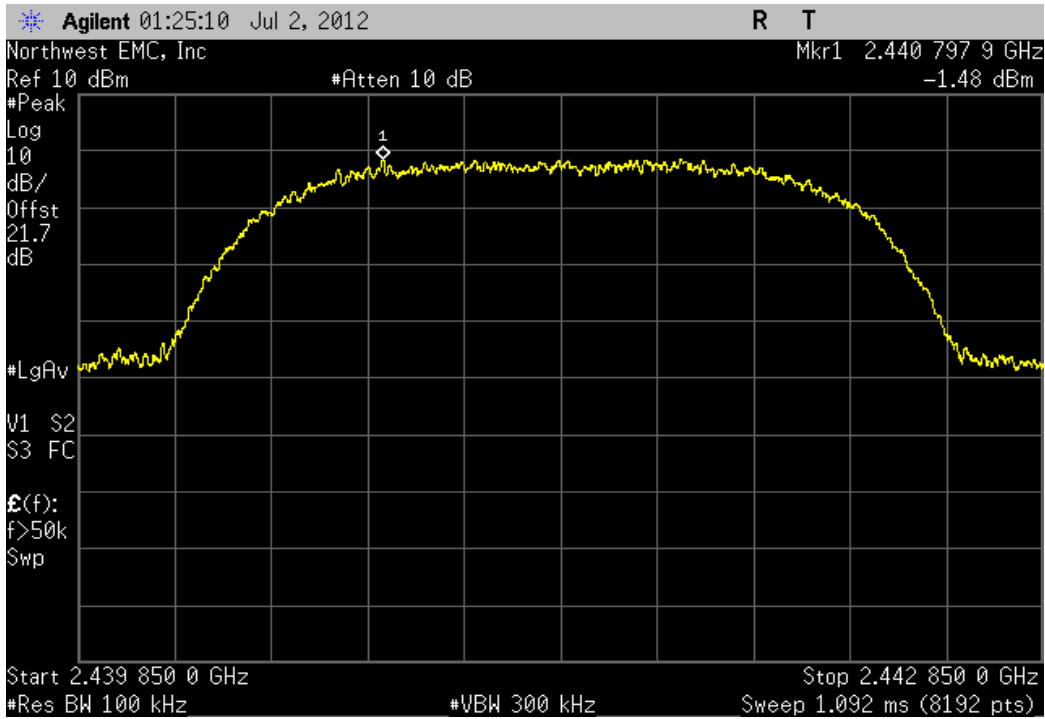
Tx Port Ant 1, Low Channel 0, 2401.35			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-38.17 dBc	≤ -20 dBc	Pass



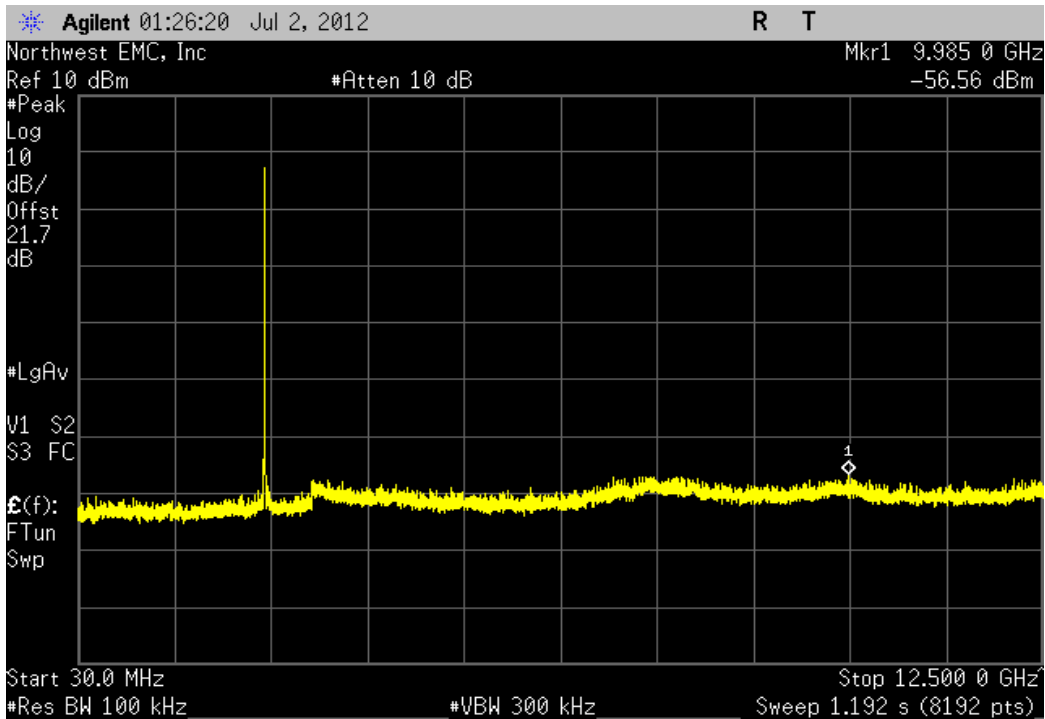
Tx Port Ant 1, Low Channel 0, 2401.35			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-52.45 dBc	≤ -20 dBc	Pass



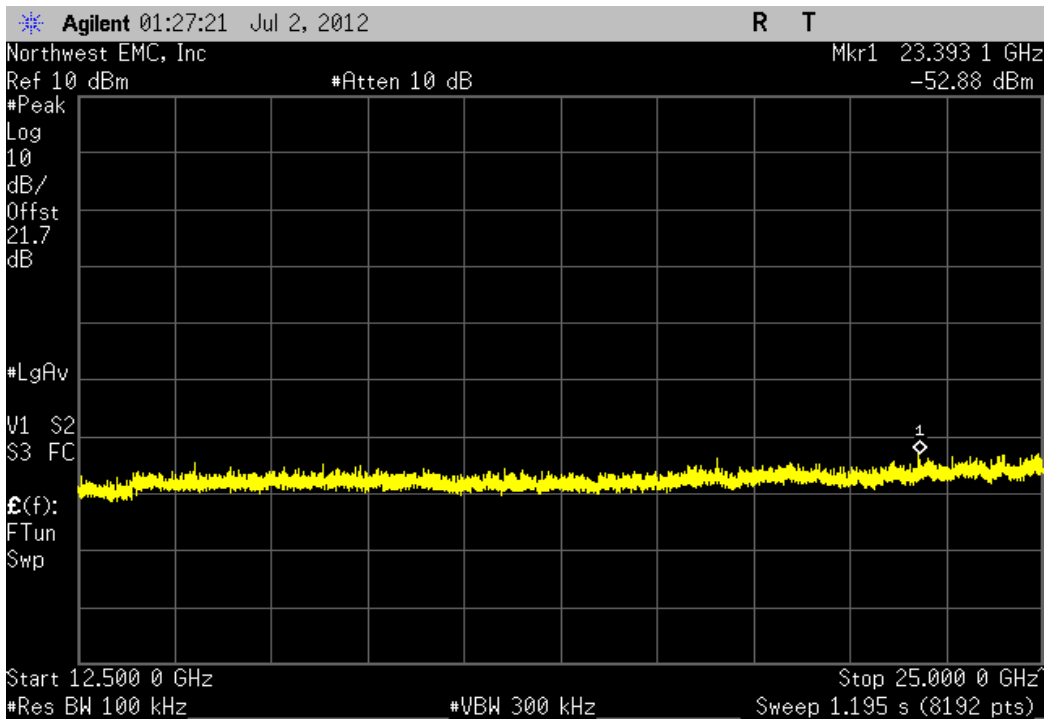
Tx Port Ant 1, Mid Channel 20, 2441.35				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



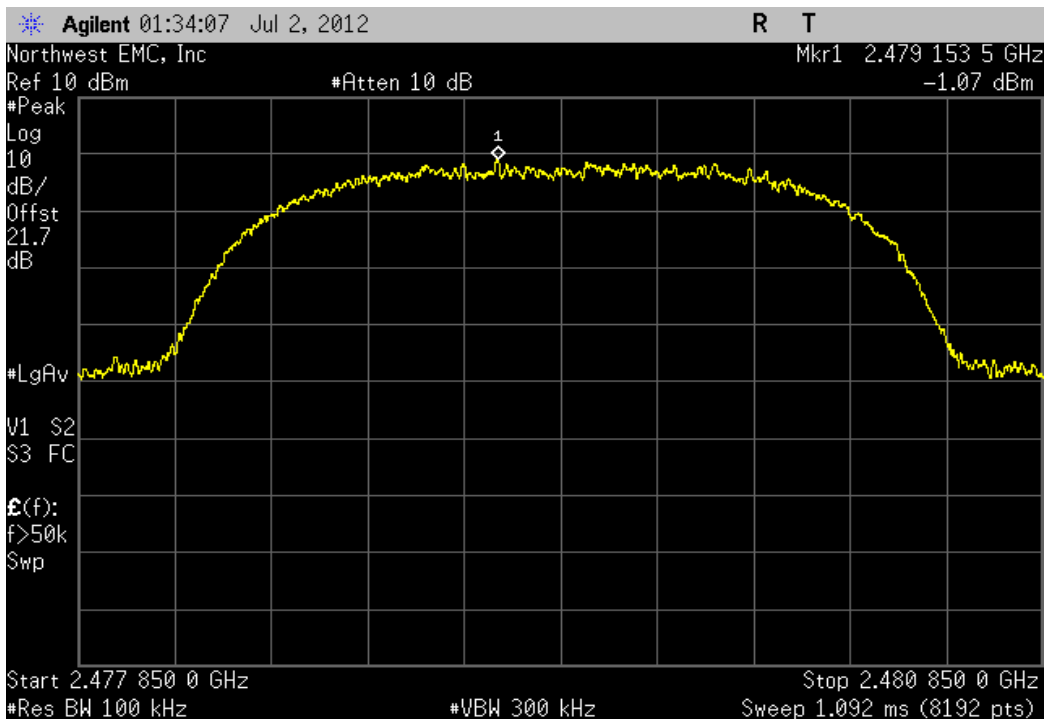
Tx Port Ant 1, Mid Channel 20, 2441.35				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-55.08 dBc	≤ -20 dBc	Pass	



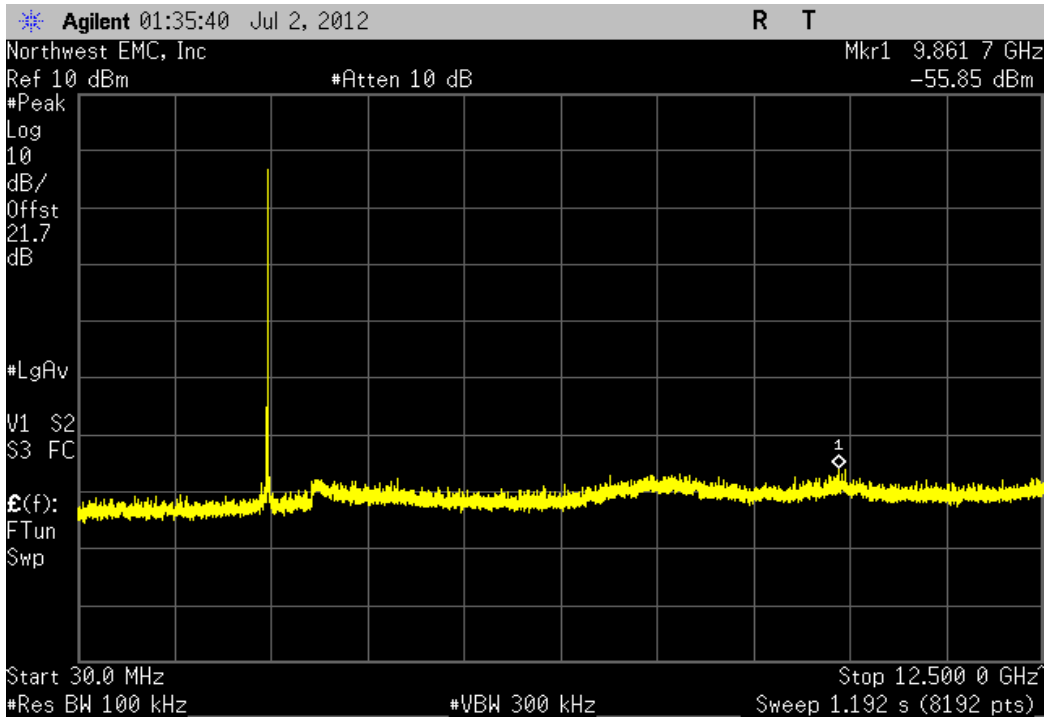
Tx Port Ant 1, Mid Channel 20, 2441.35			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-51.4 dBc	≤ -20 dBc	Pass



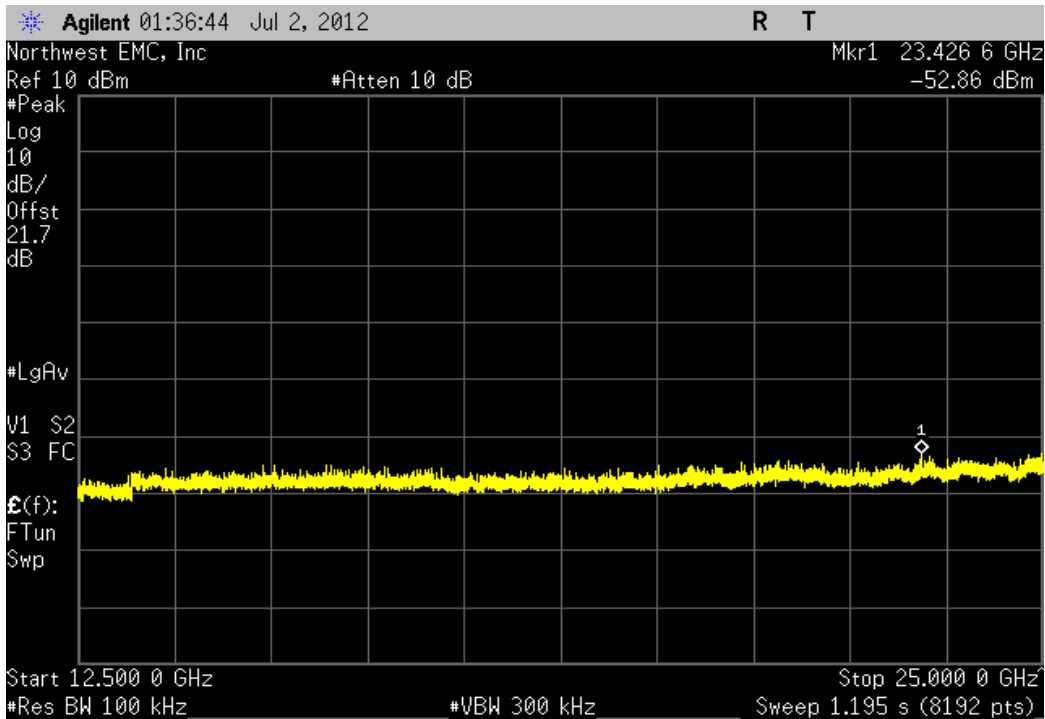
Tx Port Ant 1, High Channel 39, 2479.35			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



Tx Port Ant 1, High Channel 39, 2479.35			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-54.78 dBc	≤ -20 dBc	Pass



Tx Port Ant 1, High Channel 39, 2479.35			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-51.79 dBc	≤ -20 dBc	Pass



Power Spectral Density

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
Spectrum Analyzer	Agilent	E4440	AFE	1/23/2012	12
40GHz DC Block	Miteq	DCB4000	AMD	6/25/2012	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	8/2/2011	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	24
MXG Vector Signal Generator	Agilent	N5182A	TIF	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

The maximum power spectral density measurements were measured with the EUT set to the required transmit frequencies in each band. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its only modulation available.

Per the procedure outlined in FCC KDB 558074 D01 DTS Measurement Section 5.3.1, the spectrum analyzer was used as follows:

- RBW = 100 kHz
- VBW = 300 kHz
- Detector = Peak (to match method used for power measurement)
- Trace = Max hold

The observed power level is then scaled to an equivalent value in 3 kHz by adding a Bandwidth Correction Factor (BWCF) where:

$$BWCF = 10 \cdot \text{LOG} (3 \text{ kHz} / 100 \text{ kHz}) = -15.2 \text{ dB}$$

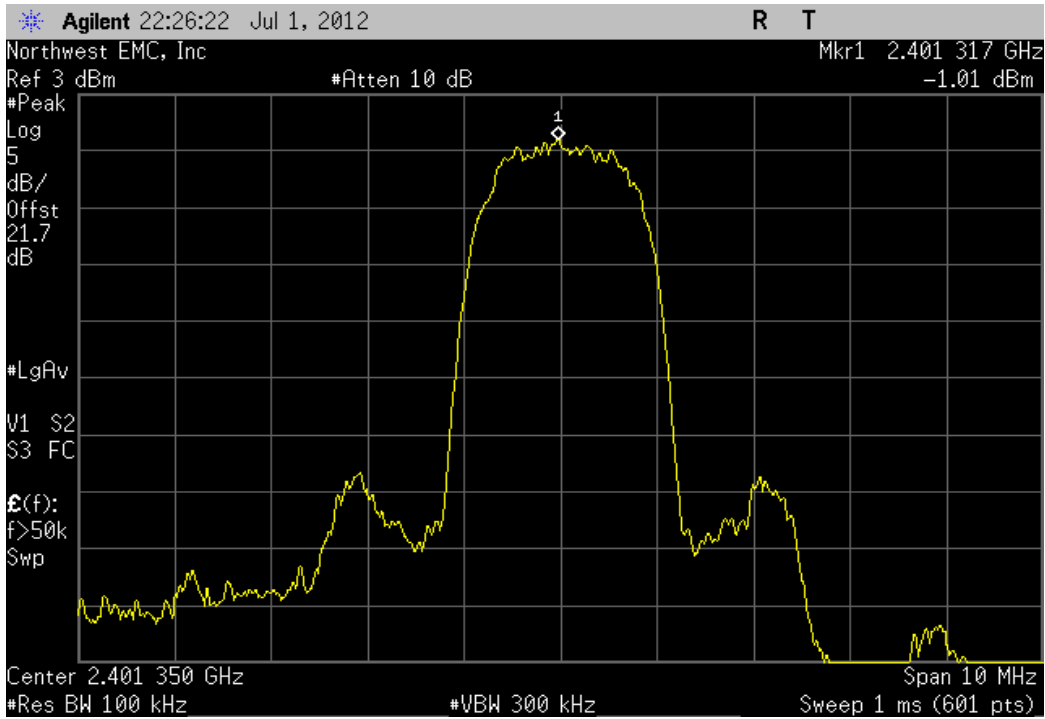


Power Spectral Density

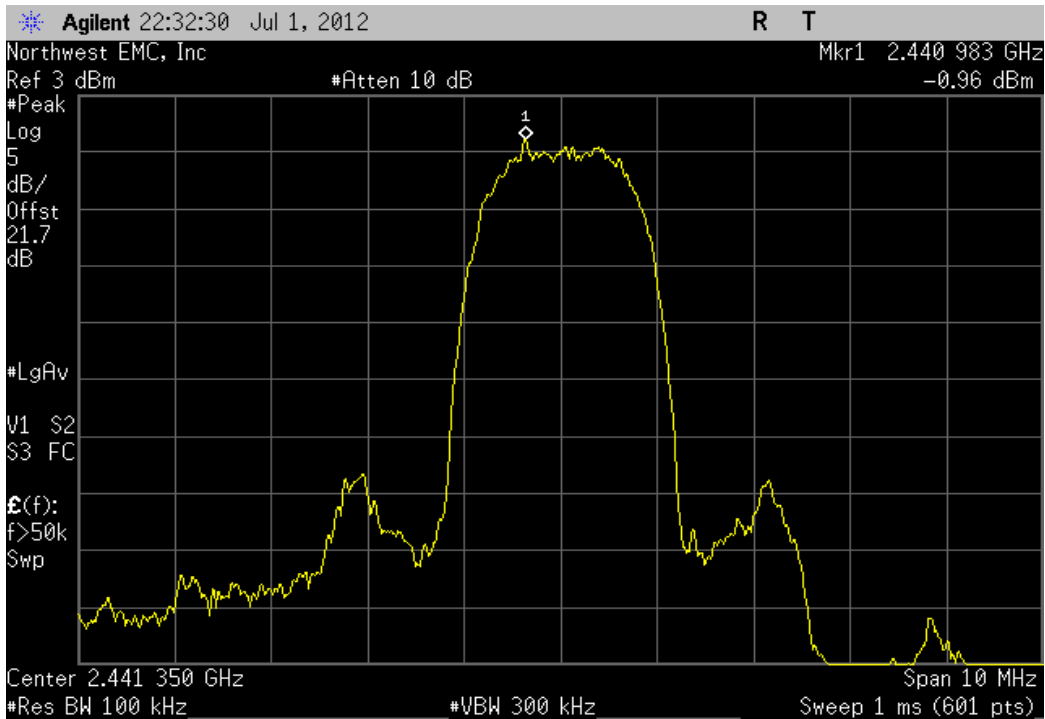
XMit 2012.05.09
PsaTx 2012.05.24

EUT: Audio995H-02, FCC ID: AL8-995H02		Work Order: PLNT0005	
Serial Number: Headset 01	Date: 07/02/12		
Customer: Plantronics	Temperature: 23.6°C		
Attendees: Sarmad Hannosh	Humidity: 45%		
Project: None	Barometric Pres.: 1015.7		
Tested by: Rod Peloquin	Power: USB	Job Site: EV06	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2012		ANSI C63.10:2009	
COMMENTS			
Transmitting at 100% duty cycle			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature <i>Rodry Le Peloy</i>	
		Value dBm/100kHz	Limit dBm/3kHz
Tx Port Ant 0			
	Low Channel 0, 2401.35	-1.014	8
	Mid Channel 20, 2441.35	-0.958	8
	High Channel 39, 2479.35	-1.907	8
Tx Port Ant 1			
	Low Channel 0, 2401.35	-0.829	8
	Mid Channel 20, 2441.35	-0.633	8
	High Channel 39, 2479.35	-1.445	8

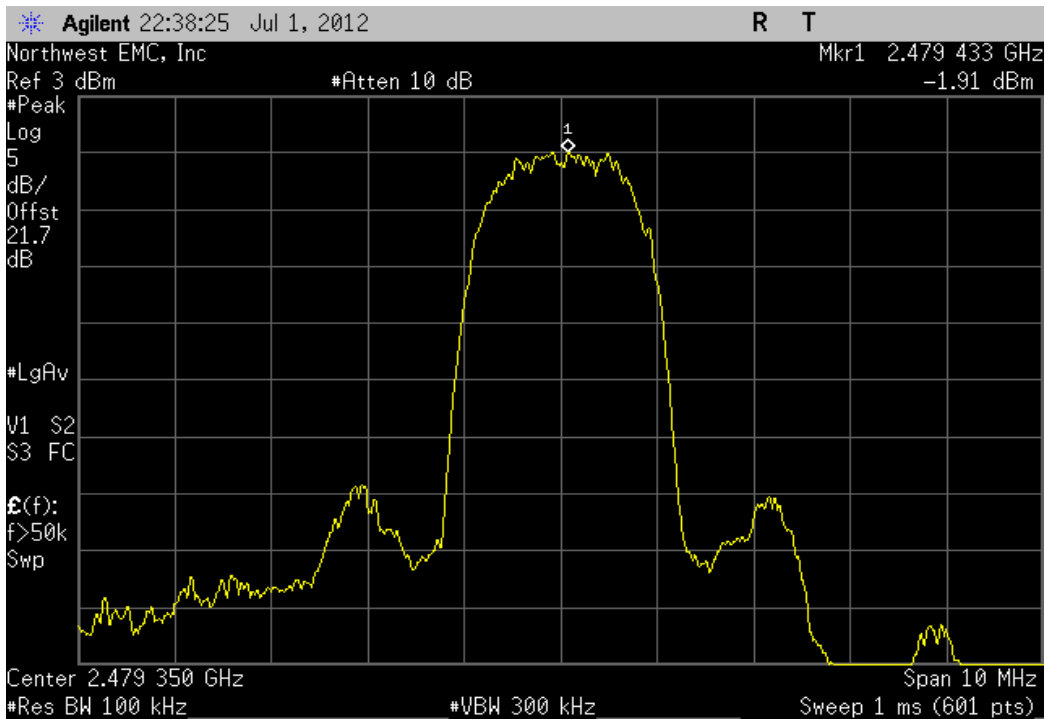
Tx Port Ant 0, Low Channel 0, 2401.35					
	Value	dBm/100kHz	To dBm/3kHz	Value	Limit
	-1.014	-15.2	-16.214	8	Pass



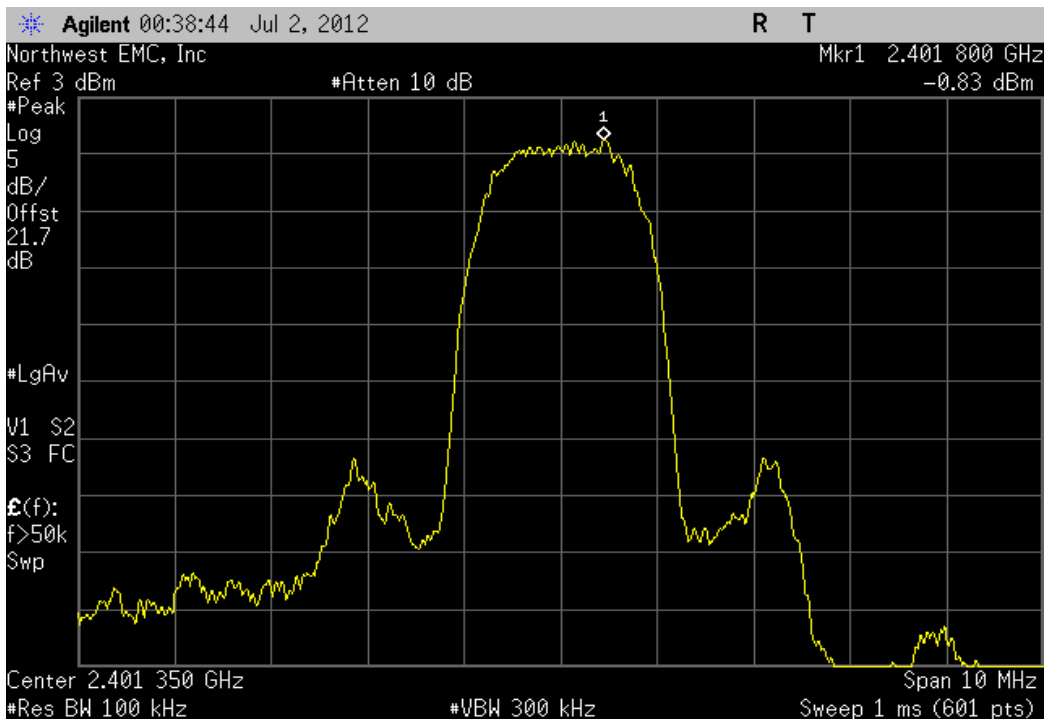
Tx Port Ant 0, Mid Channel 20, 2441.35					
	Value	dBm/100kHz	To dBm/3kHz	Value	Limit
	-0.958	-15.2	-16.158	8	Pass



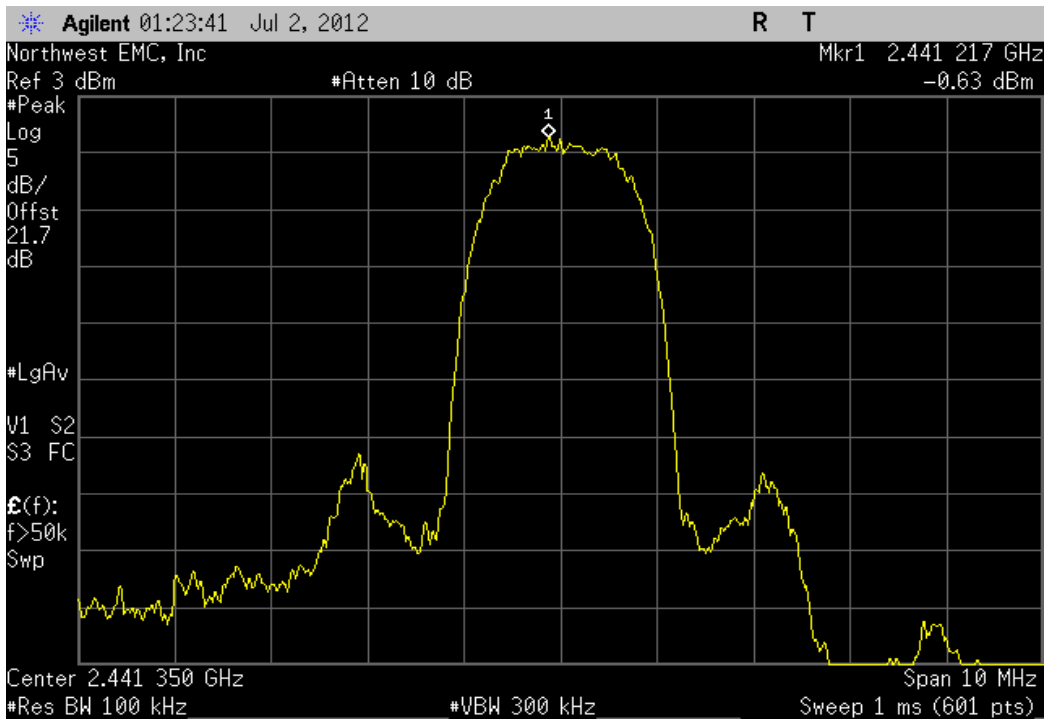
Tx Port Ant 0, High Channel 39, 2479.35					
	Value	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	-1.907	-15.2	-17.107	8	Pass



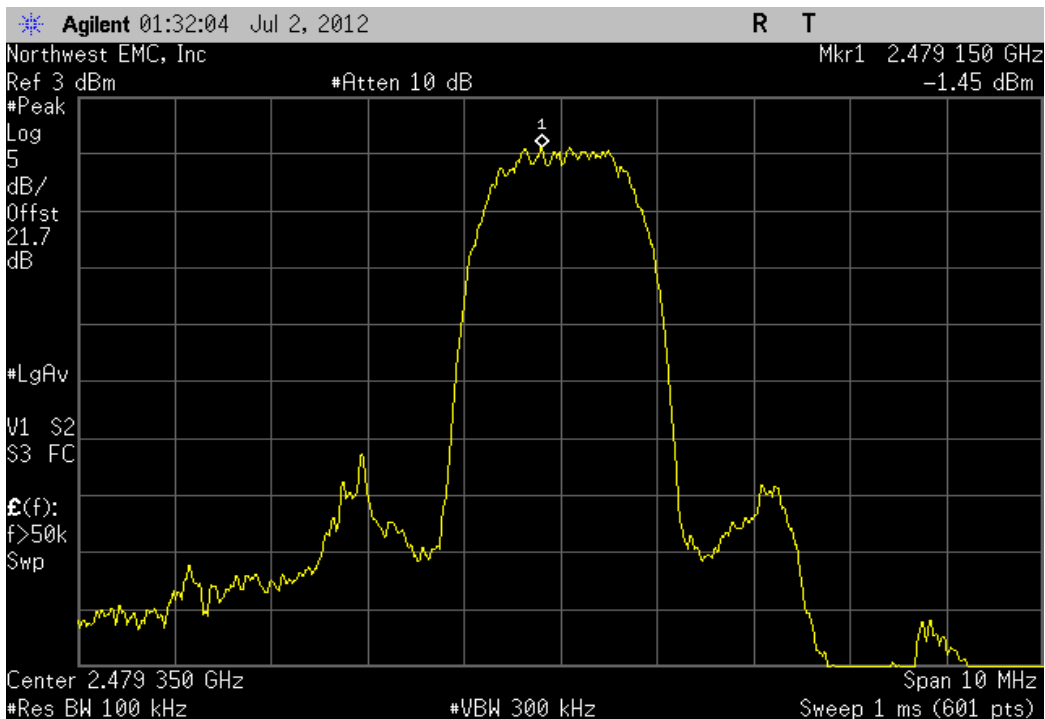
Tx Port Ant 1, Low Channel 0, 2401.35					
	Value	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	-0.829	-15.2	-16.029	8	Pass



Tx Port Ant 1, Mid Channel 20, 2441.35					
	Value	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	-0.633	-15.2	-15.833	8	Pass



Tx Port Ant 1, High Channel 39, 2479.35					
	Value	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	-1.445	-15.2	-16.645	8	Pass



DUTY CYCLE

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
Spectrum Analyzer	Agilent	E4440	AFE	1/23/2012	12
40GHz DC Block	Miteq	DCB4000	AMD	6/25/2012	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	8/2/2011	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	24
MXG Vector Signal Generator	Agilent	N5182A	TIF	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

For radio was provided with test software created by Avnera called VMI debug, version 1.1.6.38 which provided operation of the radio with its only modulation of pi/4 DQPSK and 100% duty cycle.

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

MODES OF OPERATION

Transmitting at 100% duty cycle

POWER SETTINGS INVESTIGATED

USB

CONFIGURATIONS INVESTIGATED

PLNT0005 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	26.5 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
Cable	ESM Cable Corp.	KMKM-72	EVY	9/12/2011	12 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	9/12/2011	12 mo
Antenna, Horn	ETS Lindgren	3160-09	AIV	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	2/28/2012	12 mo
Antenna, Horn	ETS	3160-08	AHV	NCR	0 mo
EV01 Cables	N/A	Standard Gain Horns Cables	EVF	2/28/2012	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	2/28/2012	12 mo
Antenna, Horn	ETS	3160-07	AHU	NCR	0 mo
EV01 Cables	N/A	Double Ridge Horn Cables	EVB	6/27/2012	12 mo
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	6/27/2012	12 mo
Antenna, Horn	ETS	3115	AIZ	1/24/2011	24 mo
EV01 Cables	N/A	Bilog Cables	EVA	6/26/2012	12 mo
Pre-Amplifier	Miteq	AM-1616-1000	AOL	6/26/2012	12 mo
Antenna, Biconilog	EMCO	3141	AXG	4/10/2012	12 mo
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	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

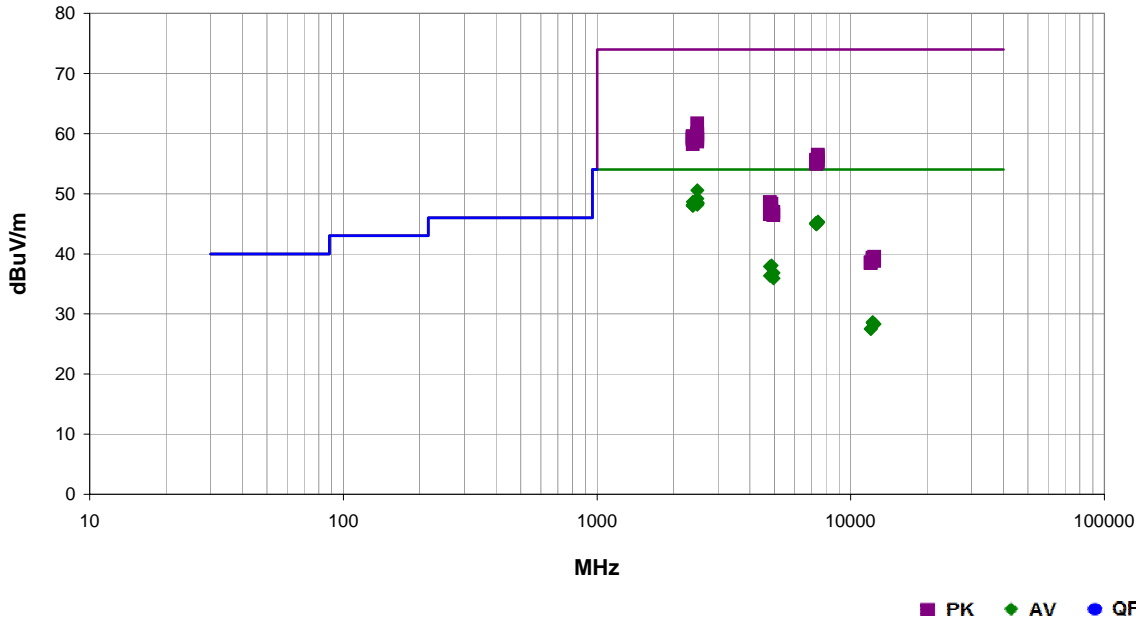
The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify 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 axes, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

SPURIOUS RADIATED EMISSIONS

Work Order:	PLNT0005	Date:	07/05/12	
Project:	None	Temperature:	23.8 °C	
Job Site:	EV01	Humidity:	42% RH	
Serial Number:	Headset 02	Barometric Pres.:	1016.2 mbar	
EUT:	.Audio995H-02, FCC ID: AL8-995H02			
Configuration:	3			
Customer:	Plantronics			
Attendees:	None			
EUT Power:	USB			
Operating Mode:	Transmitting at 100% duty cycle			
Deviations:	None			
Comments:	See data below			

Test Specifications	Test Method
FCC 15.247:2012	ANSI C63.10:2009

Run #	29	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
2483.500	28.7	1.9	1.1	342.0	3.0	20.0	Horz	AV	0.0	50.6	54.0	-3.4	Ant 0, EUT On Side, High Ch
2484.947	27.3	1.9	1.0	34.0	3.0	20.0	Horz	AV	0.0	49.2	54.0	-4.8	Ant 0, EUT Horiz, High Ch
2389.413	27.1	1.5	1.0	338.0	3.0	20.0	Horz	AV	0.0	48.6	54.0	-5.4	Ant 0, EUT On Side, Low Ch
2484.450	26.7	1.9	1.0	91.0	3.0	20.0	Horz	AV	0.0	48.6	54.0	-5.4	Ant 0, EUT Vert, High Ch
2484.927	26.6	1.9	1.2	80.0	3.0	20.0	Horz	AV	0.0	48.5	54.0	-5.5	Ant 1, EUT Vert, High Ch
2484.860	26.6	1.9	1.0	4.0	3.0	20.0	Vert	AV	0.0	48.5	54.0	-5.5	Ant 1, EUT Vert, High Ch
2484.633	26.6	1.9	1.0	176.0	3.0	20.0	Vert	AV	0.0	48.5	54.0	-5.5	Ant 0, EUT Vert, High Ch
2484.450	26.5	1.9	1.0	96.0	3.0	20.0	Vert	AV	0.0	48.4	54.0	-5.6	Ant 0, EUT Horiz, High Ch
2485.390	26.3	1.9	1.0	88.0	3.0	20.0	Vert	AV	0.0	48.2	54.0	-5.8	Ant 0, EUT On Side, High Ch
2389.490	26.6	1.5	1.5	298.0	3.0	20.0	Vert	AV	0.0	48.1	54.0	-5.9	Ant 0, EUT Horiz, Low Ch
2388.193	26.5	1.6	1.0	2.0	3.0	20.0	Vert	AV	0.0	48.1	54.0	-5.9	Ant 1, EUT Vert, Low Ch
2388.783	26.5	1.6	1.0	7.0	3.0	20.0	Horz	AV	0.0	48.1	54.0	-6.0	Ant 1, EUT Vert, Low Ch
2389.227	26.5	1.5	1.0	151.0	3.0	20.0	Vert	AV	0.0	48.0	54.0	-6.0	Ant 0, EUT Vert, Low Ch
2389.610	26.5	1.5	1.0	12.0	3.0	20.0	Horz	AV	0.0	48.0	54.0	-6.0	Ant 0, EUT Horiz, Low Ch
2389.797	26.5	1.5	1.0	312.0	3.0	20.0	Horz	AV	0.0	48.0	54.0	-6.0	Ant 0, EUT Vert, Low Ch
2389.853	26.5	1.5	1.0	55.0	3.0	20.0	Vert	AV	0.0	48.0	54.0	-6.0	Ant 0, EUT On Side, Low Ch
7436.073	25.9	19.4	1.0	14.0	3.0	0.0	Vert	AV	0.0	45.3	54.0	-8.7	Ant 0, EUT Vert, High Ch
7437.393	25.8	19.5	1.0	194.0	3.0	0.0	Horz	AV	0.0	45.3	54.0	-8.7	Ant 0, EUT Vert, High Ch
7436.787	25.8	19.5	1.0	8.0	3.0	0.0	Horz	AV	0.0	45.3	54.0	-8.7	Ant 1, EUT Vert, High Ch
7436.027	25.8	19.4	1.0	11.0	3.0	0.0	Vert	AV	0.0	45.2	54.0	-8.8	Ant 1, EUT Vert, High Ch
7324.547	26.1	19.0	1.0	1.0	3.0	0.0	Horz	AV	0.0	45.1	54.0	-8.9	Ant 0, EUT On Side, Mid Ch
7324.227	26.1	19.0	1.0	249.0	3.0	0.0	Vert	AV	0.0	45.1	54.0	-8.9	Ant 0, EUT Horiz, Mid Ch.

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
7323.200	26.1	19.0	1.0	337.0	3.0	0.0	Horz	AV	0.0	45.1	54.0	-8.9	Ant 0, EUT Vert, Mid Ch
7324.340	26.0	19.0	1.0	285.0	3.0	0.0	Horz	AV	0.0	45.0	54.0	-9.0	Ant 0, EUT Horiz, Mid Ch
7323.627	26.0	19.0	1.0	181.0	3.0	0.0	Vert	AV	0.0	45.0	54.0	-9.0	Ant 0, EUT Vert, Mid Ch
7323.413	26.0	19.0	1.0	33.0	3.0	0.0	Vert	AV	0.0	45.0	54.0	-9.0	Ant 0, EUT On Side, Mid Ch
7325.180	25.9	19.0	1.0	306.0	3.0	0.0	Horz	AV	0.0	44.9	54.0	-9.1	Ant 1, EUT Vert, Mid Ch
7324.520	25.9	19.0	1.0	172.0	3.0	0.0	Vert	AV	0.0	44.9	54.0	-9.1	Ant 1, EUT Vert, Mid Ch
2485.150	39.8	1.9	1.1	342.0	3.0	20.0	Horz	PK	0.0	61.7	74.0	-12.3	Ant 0, EUT On Side, High Ch
2484.527	38.1	1.9	1.0	91.0	3.0	20.0	Horz	PK	0.0	60.0	74.0	-14.0	Ant 0, EUT Vert, High Ch
2483.640	38.1	1.9	1.0	34.0	3.0	20.0	Horz	PK	0.0	60.0	74.0	-14.0	Ant 0, EUT Horiz, High Ch
2484.347	37.8	1.9	1.0	176.0	3.0	20.0	Vert	PK	0.0	59.7	74.0	-14.3	Ant 0, EUT Vert, High Ch
2389.983	38.0	1.5	1.0	338.0	3.0	20.0	Horz	PK	0.0	59.5	74.0	-14.5	Ant 0, EUT On Side, Low Ch
2388.650	37.9	1.6	1.0	7.0	3.0	20.0	Horz	PK	0.0	59.5	74.0	-14.5	Ant 1, EUT Vert, Low Ch
2388.953	37.9	1.5	1.0	55.0	3.0	20.0	Vert	PK	0.0	59.4	74.0	-14.6	Ant 0, EUT On Side, Low Ch
2485.143	37.4	1.9	1.0	4.0	3.0	20.0	Vert	PK	0.0	59.3	74.0	-14.7	Ant 1, EUT Vert, High Ch
2389.597	37.7	1.5	1.0	312.0	3.0	20.0	Horz	PK	0.0	59.2	74.0	-14.8	Ant 0, EUT Vert, Low Ch
2484.393	37.3	1.9	1.2	80.0	3.0	20.0	Horz	PK	0.0	59.2	74.0	-14.8	Ant 1, EUT Vert, High Ch
2389.307	37.6	1.5	1.0	151.0	3.0	20.0	Vert	PK	0.0	59.1	74.0	-14.9	Ant 0, EUT Vert, Low Ch
2388.673	37.5	1.6	1.5	298.0	3.0	20.0	Vert	PK	0.0	59.1	74.0	-14.9	Ant 0, EUT Horiz, Low Ch
2483.923	37.1	1.9	1.0	96.0	3.0	20.0	Vert	PK	0.0	59.0	74.0	-15.0	Ant 0, EUT Horiz, High Ch
2389.133	37.3	1.5	1.0	12.0	3.0	20.0	Horz	PK	0.0	58.8	74.0	-15.2	Ant 0, EUT Horiz, Low Ch
2485.183	36.8	1.9	1.0	88.0	3.0	20.0	Vert	PK	0.0	58.7	74.0	-15.3	Ant 0, EUT On Side, High Ch
2388.980	36.7	1.5	1.0	2.0	3.0	20.0	Vert	PK	0.0	58.2	74.0	-15.8	Ant 1, EUT Vert, Low Ch
4882.673	27.6	10.4	1.3	93.0	3.0	0.0	Horz	AV	0.0	38.0	54.0	-16.0	Ant 0, EUT Vert, Mid Ch
4802.693	27.7	10.2	1.1	121.0	3.0	0.0	Horz	AV	0.0	37.9	54.0	-16.1	Ant 0, EUT Vert, Low Ch
4958.820	26.1	10.7	1.0	103.0	3.0	0.0	Horz	AV	0.0	36.8	54.0	-17.2	Ant 0, EUT Vert, High Ch
7438.887	37.0	19.5	1.0	8.0	3.0	0.0	Horz	PK	0.0	56.5	74.0	-17.5	Ant 1, EUT Vert, High Ch
4802.567	26.2	10.2	1.0	75.0	3.0	0.0	Vert	AV	0.0	36.4	54.0	-17.6	Ant 0, EUT Vert, Low Ch
4882.780	25.9	10.4	1.0	184.0	3.0	0.0	Vert	AV	0.0	36.3	54.0	-17.7	Ant 0, EUT Vert, Mid Ch
7438.920	36.7	19.5	1.0	194.0	3.0	0.0	Horz	PK	0.0	56.2	74.0	-17.8	Ant 0, EUT Vert, High Ch
4958.833	25.2	10.7	1.0	235.0	3.0	0.0	Vert	AV	0.0	35.9	54.0	-18.1	Ant 0, EUT Vert, High Ch
7325.353	36.6	19.0	1.0	172.0	3.0	0.0	Vert	PK	0.0	55.6	74.0	-18.4	Ant 1, EUT Vert, Mid Ch
7324.647	36.6	19.0	1.0	1.0	3.0	0.0	Horz	PK	0.0	55.6	74.0	-18.4	Ant 0, EUT On Side, Mid Ch
7437.040	36.1	19.5	1.0	11.0	3.0	0.0	Vert	PK	0.0	55.6	74.0	-18.4	Ant 1, EUT Vert, High Ch
7324.320	36.3	19.0	1.0	249.0	3.0	0.0	Vert	PK	0.0	55.3	74.0	-18.7	Ant 0, EUT Horiz, Mid Ch
7322.313	36.3	19.0	1.0	181.0	3.0	0.0	Vert	PK	0.0	55.3	74.0	-18.7	Ant 0, EUT Vert, Mid Ch
7322.107	36.3	19.0	1.0	285.0	3.0	0.0	Horz	PK	0.0	55.3	74.0	-18.7	Ant 0, EUT Horiz, Mid Ch
7436.780	35.8	19.5	1.0	14.0	3.0	0.0	Vert	PK	0.0	55.3	74.0	-18.7	Ant 0, EUT Vert, High Ch
7323.313	36.1	19.0	1.0	33.0	3.0	0.0	Vert	PK	0.0	55.1	74.0	-18.9	Ant 0, EUT On Side, Mid Ch
7322.700	36.1	19.0	1.0	337.0	3.0	0.0	Horz	PK	0.0	55.1	74.0	-18.9	Ant 0, EUT Vert, Mid Ch
7324.440	35.9	19.0	1.0	306.0	3.0	0.0	Horz	PK	0.0	54.9	74.0	-19.1	Ant 1, EUT Vert, Mid Ch
12205.410	32.8	-4.2	1.0	211.0	3.0	0.0	Horz	AV	0.0	28.6	54.0	-25.4	Ant 0, EUT Vert, Mid Ch
4803.353	38.4	10.2	1.1	121.0	3.0	0.0	Horz	PK	0.0	48.6	74.0	-25.4	Ant 0, EUT Vert, Low Ch
12205.270	32.7	-4.2	1.0	268.0	3.0	0.0	Vert	AV	0.0	28.5	54.0	-25.5	Ant 0, EUT Vert, Mid Ch
4882.407	37.9	10.4	1.3	93.0	3.0	0.0	Horz	PK	0.0	48.3	74.0	-25.7	Ant 0, EUT Vert, Mid Ch
12395.990	31.2	-2.9	1.0	336.0	3.0	0.0	Horz	AV	0.0	28.3	54.0	-25.7	Ant 0, EUT Vert, High Ch
12395.050	31.2	-2.9	1.0	27.0	3.0	0.0	Vert	AV	0.0	28.3	54.0	-25.7	Ant 0, EUT Vert, High Ch
12007.140	33.0	-5.5	1.0	125.0	3.0	0.0	Vert	AV	0.0	27.5	54.0	-26.5	Ant 0, EUT Vert, Low Ch
12005.680	33.0	-5.5	1.0	2.0	3.0	0.0	Horz	AV	0.0	27.5	54.0	-26.5	Ant 0, EUT Vert, Low Ch
4883.373	36.7	10.4	1.0	184.0	3.0	0.0	Vert	PK	0.0	47.1	74.0	-26.9	Ant 0, EUT Vert, Mid Ch
4959.353	36.2	10.7	1.0	103.0	3.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1	Ant 0, EUT Vert, High Ch
4803.213	36.4	10.2	1.0	75.0	3.0	0.0	Vert	PK	0.0	46.6	74.0	-27.4	Ant 0, EUT Vert, Low Ch
4957.247	35.7	10.7	1.0	235.0	3.0	0.0	Vert	PK	0.0	46.4	74.0	-27.6	Ant 0, EUT Vert, High Ch
12395.430	42.4	-2.9	1.0	336.0	3.0	0.0	Horz	PK	0.0	39.5	74.0	-34.5	Ant 0, EUT Vert, High Ch
12206.010	43.5	-4.2	1.0	268.0	3.0	0.0	Vert	PK	0.0	39.3	74.0	-34.7	Ant 0, EUT Vert, Mid Ch
12208.110	43.2	-4.2	1.0	211.0	3.0	0.0	Horz	PK	0.0	39.0	74.0	-35.0	Ant 0, EUT Vert, Mid Ch
12398.710	41.7	-2.9	1.0	27.0	3.0	0.0	Vert	PK	0.0	38.8	74.0	-35.2	Ant 0, EUT Vert, High Ch
12006.370	44.1	-5.5	1.0	125.0	3.0	0.0	Vert	PK	0.0	38.6	74.0	-35.4	Ant 0, EUT Vert, Low Ch
12008.610	43.9	-5.5	1.0	2.0	3.0	0.0	Horz	PK	0.0	38.4	74.0	-35.6	Ant 0, EUT Vert, Low Ch