



Plantronics
.Audio995USB-02
FCC ID: AL8-995USB02

Report #: PLNT0005



Report Prepared By Northwest EMC Inc.

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

California – Minnesota – Oregon – New York – Washington

Last Date of Test: July 06, 2012

Plantronics

Model: .Audio995USB-02,

FCC ID: AL8-995USB02


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
AC Power Line Conducted Emissions	FCC 15.207:2012	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.



REV 2012.05.24

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.

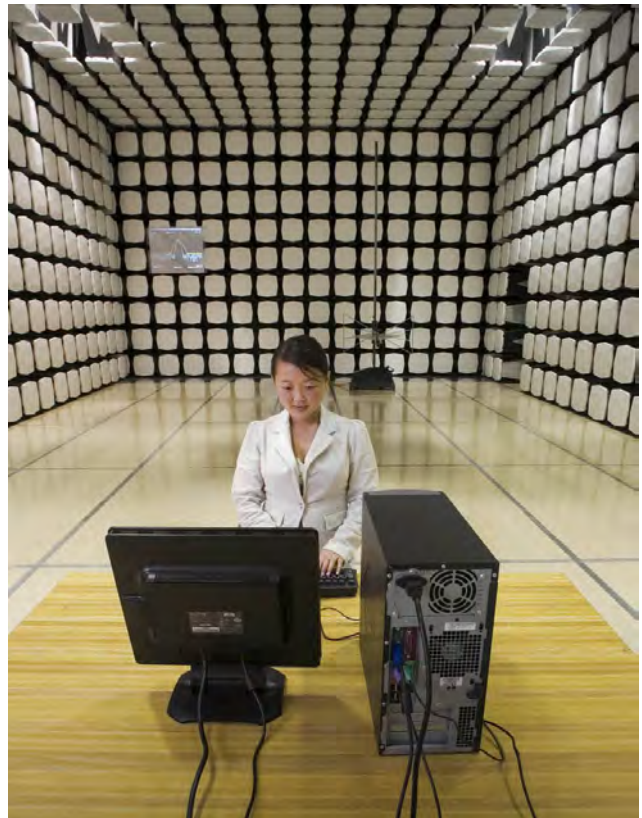
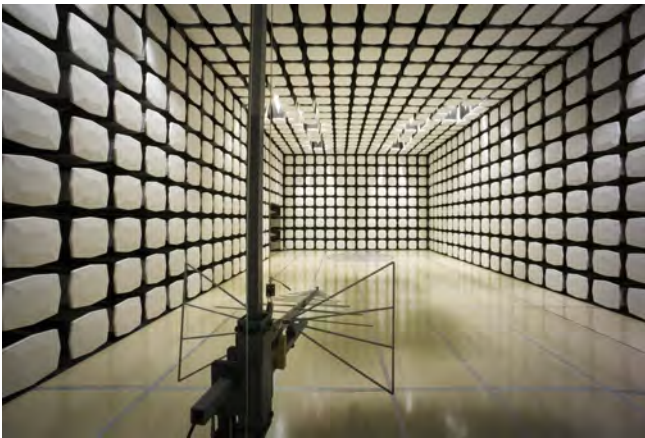
SCOPE

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

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



Oregon Labs EV01-EV12 22975 NW Evergreen Pkwy, #400 Hillsboro, OR 97124 (503) 844-4066	California Labs OC01-OC13 41 Tesla Irvine, CA 92618 (949) 861-8918	New York Labs WA01-WA04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Minnesota Labs MN01-MN08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Washington Labs SU01-SU07 14128 339 th Ave. SE Sultan, WA 98294 (360) 793-8675
VCCI				
EV01: C-1071, R-1025, G-84 EV07: C-2687, T-1658 EV11: R-2318	OC06: C-2766, T-1659 OC07: G-548 OC08: R-1943, G-85 OC10: A-0029		MN03: C-3464, T-1634 MN04: R-3125 MN05: G-141	SU01: C-3265, T-1511 SU02: R-871, G-83
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:	Plantronics
Address:	345 Encinal Street
City, State, Zip:	Santa Cruz, CA 95060
Test Requested By:	Alvin Ilarina
Model:	.Audio995USB-02, FCC ID: AL8-995USB02
First Date of Test:	July 02, 2012
Last Date of Test:	July 06, 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 2 PLNT0005

Software/Firmware Running during test	
Description	Version
VMldebug	1.1.6.38

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Wireless USB Dongle - Direct Connect	Plantronics	.Audio995USB-02	USB Dongle 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 4 PLNT0005

Software/Firmware Running during test	
Description	Version
VMldebug	1.1.6.38

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Wireless USB Dongle	Plantronics	.Audio995USB-02	USB Dongle 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.					

Configuration 5 PLNT0005

Software/Firmware Running during test	
Description	Version
VMldebug	1.1.6.38

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Wireless USB Dongle	Plantronics	.Audio995USB-02	USB Dongle 02

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Ethernet Switch	D-Link	DGS-1005D	DR8V259001633
Host PC	Dell	Latitude	
DC Power Supply	D-Link	AM-0751000D41	None

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Wireless Headset	Plantronics	LC995 Headset	Headset 02

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
CAT-5 UTP	No	1.2m	No	Ethernet Switch	Host PC
DC Power	No	1.8m	No	Ethernet Switch	DC Power Supply

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	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.
3	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.
4	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.
5	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.
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	7/3/2012	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
8	7/6/2012	AC Powerline Conducted 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 at its only modulation available.



Occupied Bandwidth

XMit 2012.05.09
PsaTx 2012.05.24

EUT: Audio995USB-02, FCC ID: AL8-995USB02		Work Order: PLNT0005
Serial Number: USB Dongle 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	

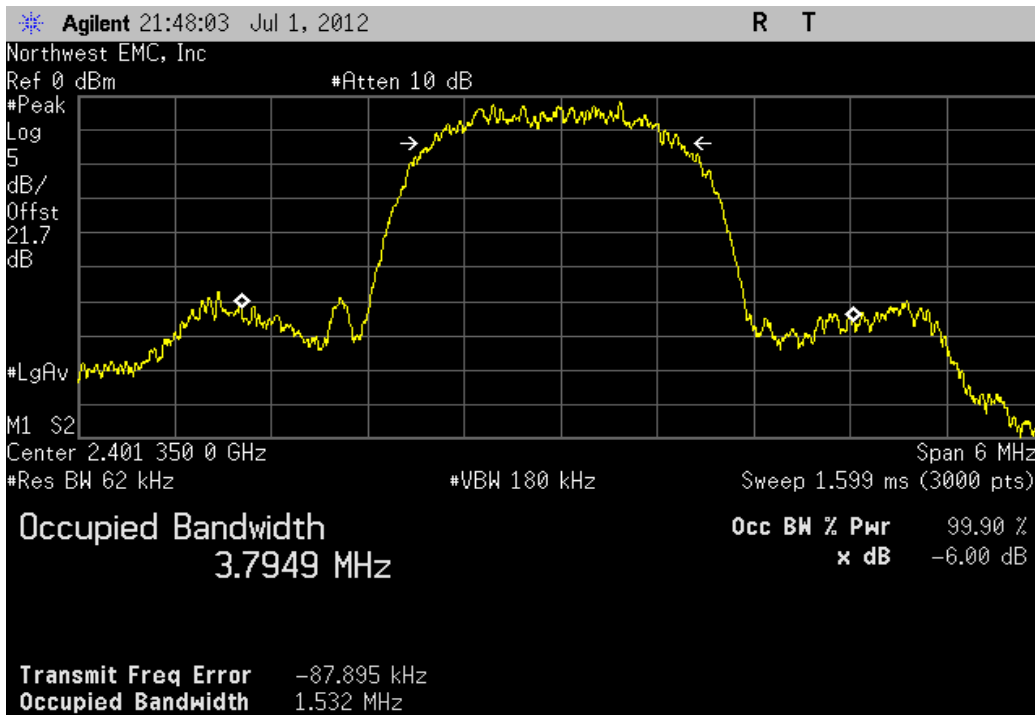
COMMENTS
Transmitting at 100% duty cycle

DEVIATIONS FROM TEST STANDARD
None

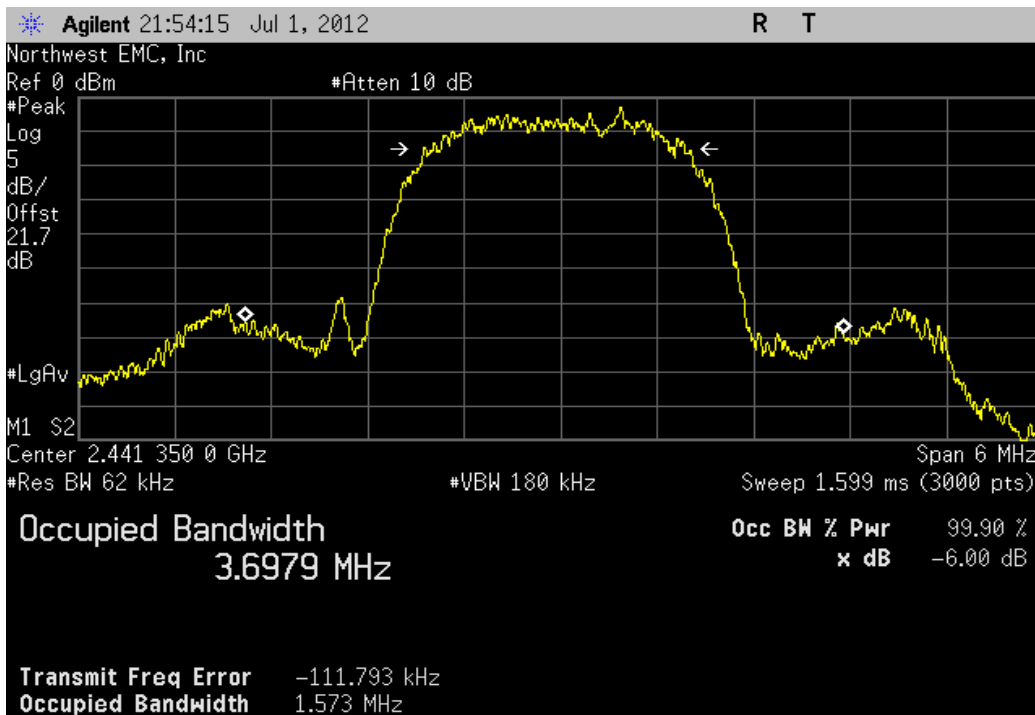
Configuration #	2	Signature <i>Rodry L. Peloquin</i>
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		Value	Limit	Result
Tx Port Ant 0				
	Low Channel 0, 2401.35	1.532 MHz	> 500 kHz	Pass
	Mid Channel 20, 2441.35	1.573 MHz	> 500 kHz	Pass
	High Channel 39, 2479.35	1.554 MHz	> 500 kHz	Pass
Tx Port Ant 1				
	Low Channel 0, 2401.35	1.57 MHz	> 500 kHz	Pass
	Mid Channel 20, 2441.35	1.491 MHz	> 500 kHz	Pass
	High Channel 39, 2479.35	1.613 MHz	> 500 kHz	Pass

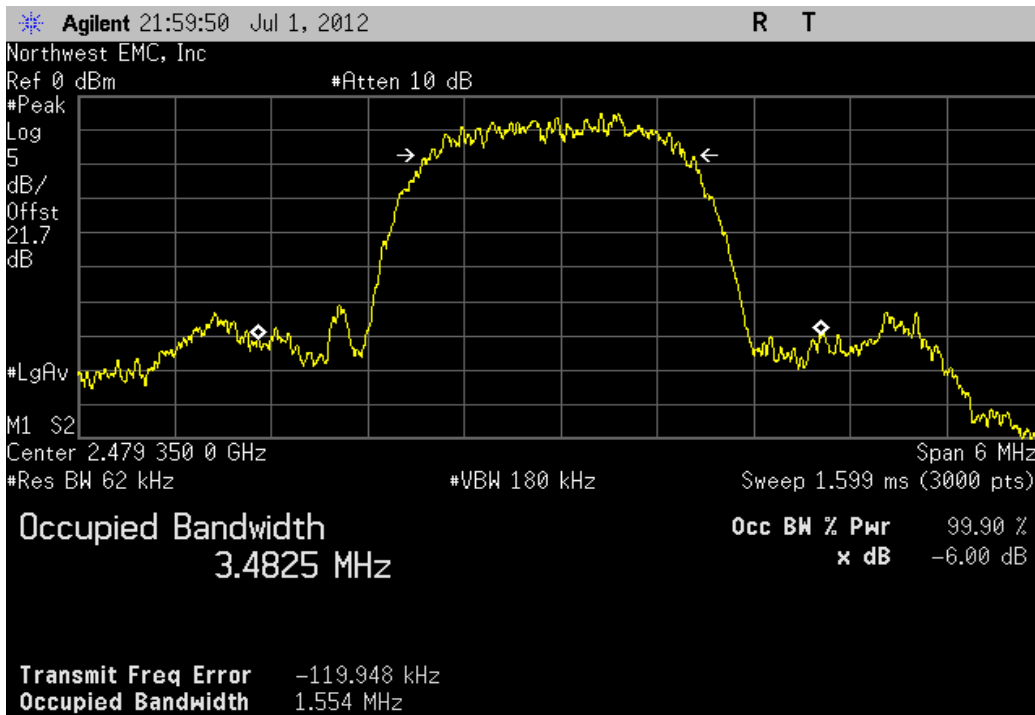
Tx Port Ant 0, Low Channel 0, 2401.35			
	Value	Limit	Result
	1.532 MHz	> 500 kHz	Pass



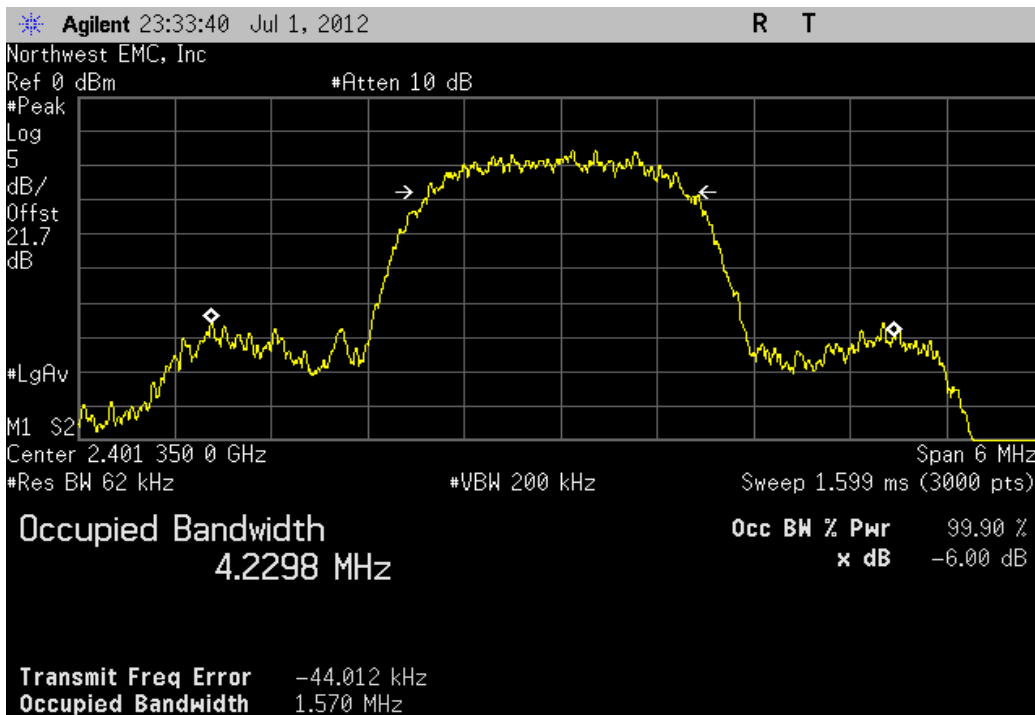
Tx Port Ant 0, Mid Channel 20, 2441.35			
	Value	Limit	Result
	1.573 MHz	> 500 kHz	Pass



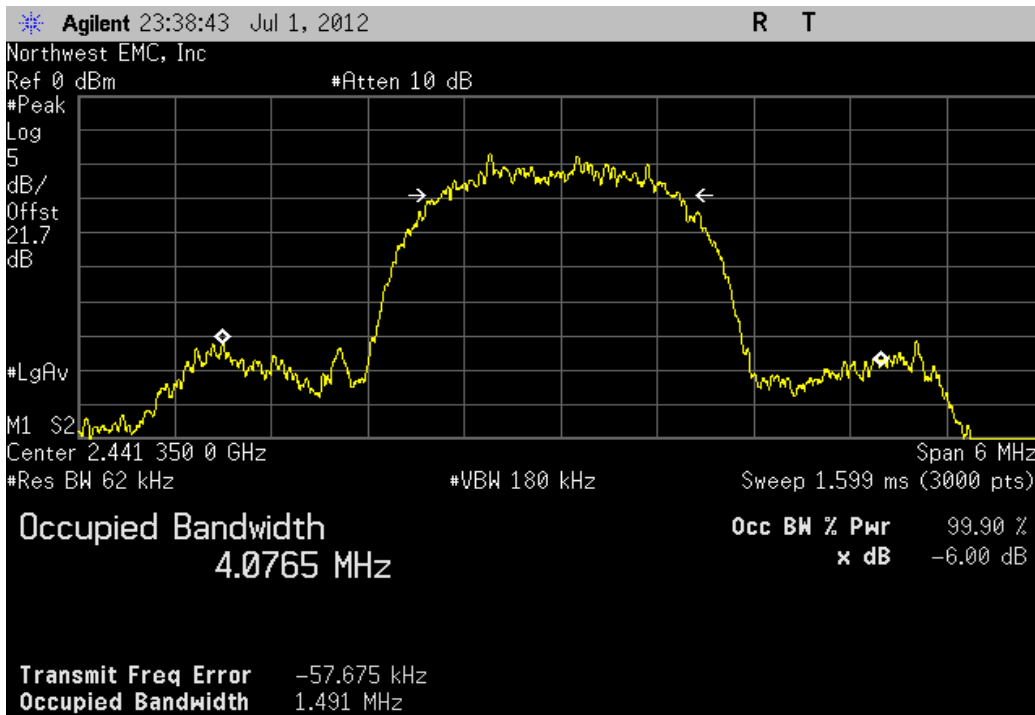
Tx Port Ant 0, High Channel 39, 2479.35			
	Value	Limit	Result
	1.554 MHz	> 500 kHz	Pass



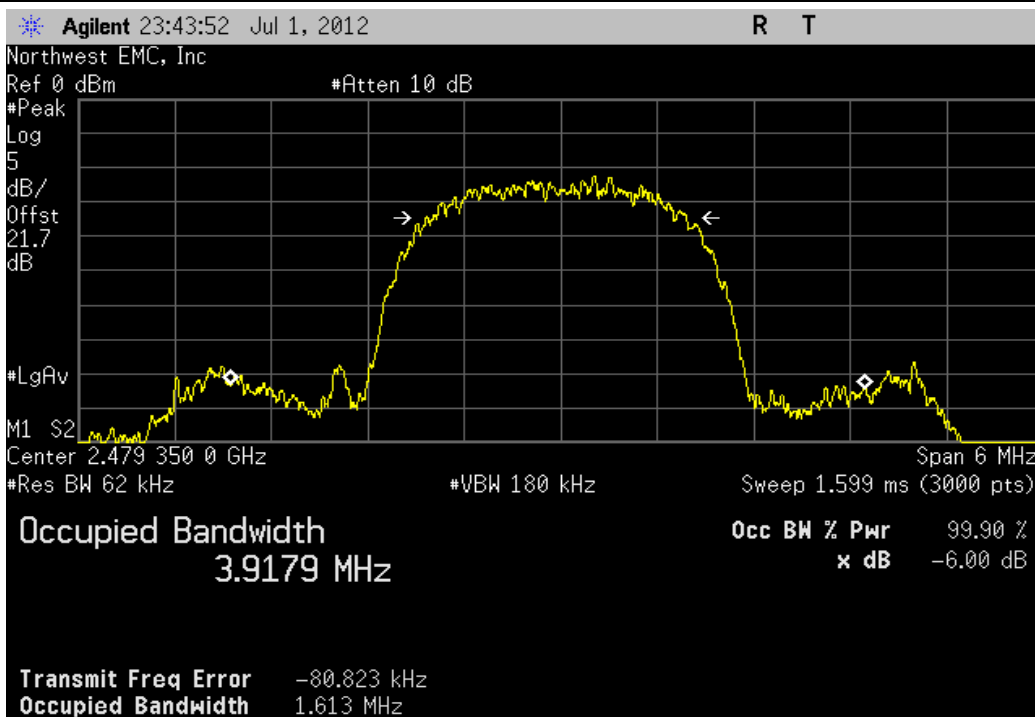
Tx Port Ant 1, Low Channel 0, 2401.35			
	Value	Limit	Result
	1.57 MHz	> 500 kHz	Pass



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



Tx Port Ant 1, High Channel 39, 2479.35			
	Value	Limit	Result
	1.613 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 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 peak output power was measured with the EUT set to low, medium and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting at its 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

EUT: Audio995USB-02, FCC ID: AL8-995USB02		Work Order: PLNT0005
Serial Number: USB Dongle 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	

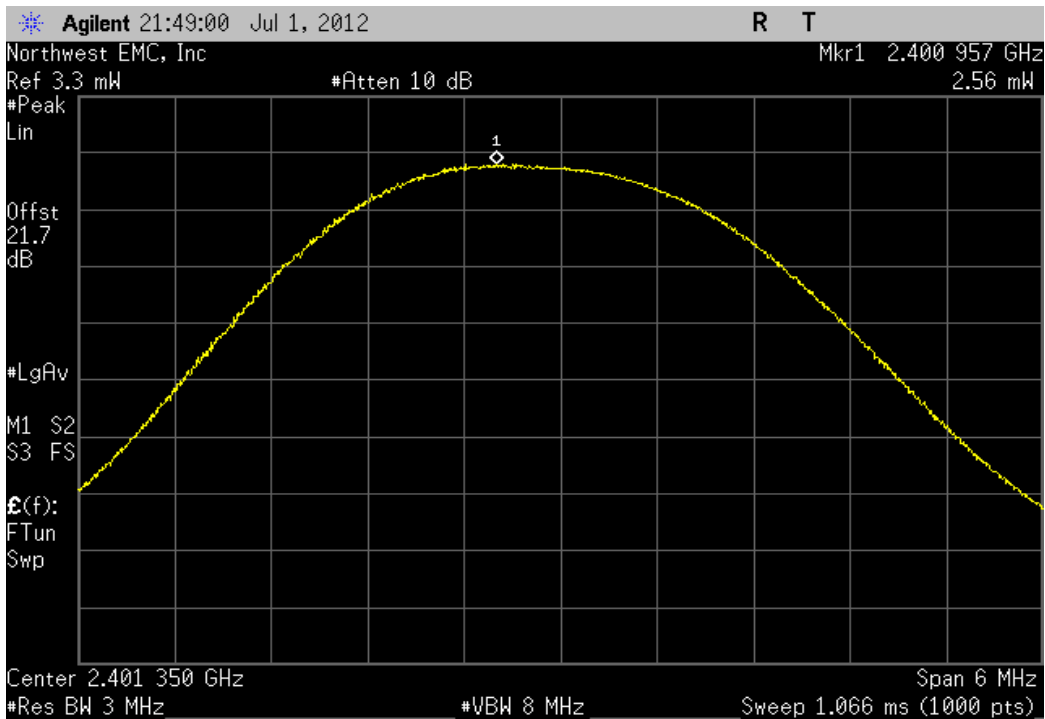
COMMENTS
Transmitting at 100% duty cycle

DEVIATIONS FROM TEST STANDARD
None

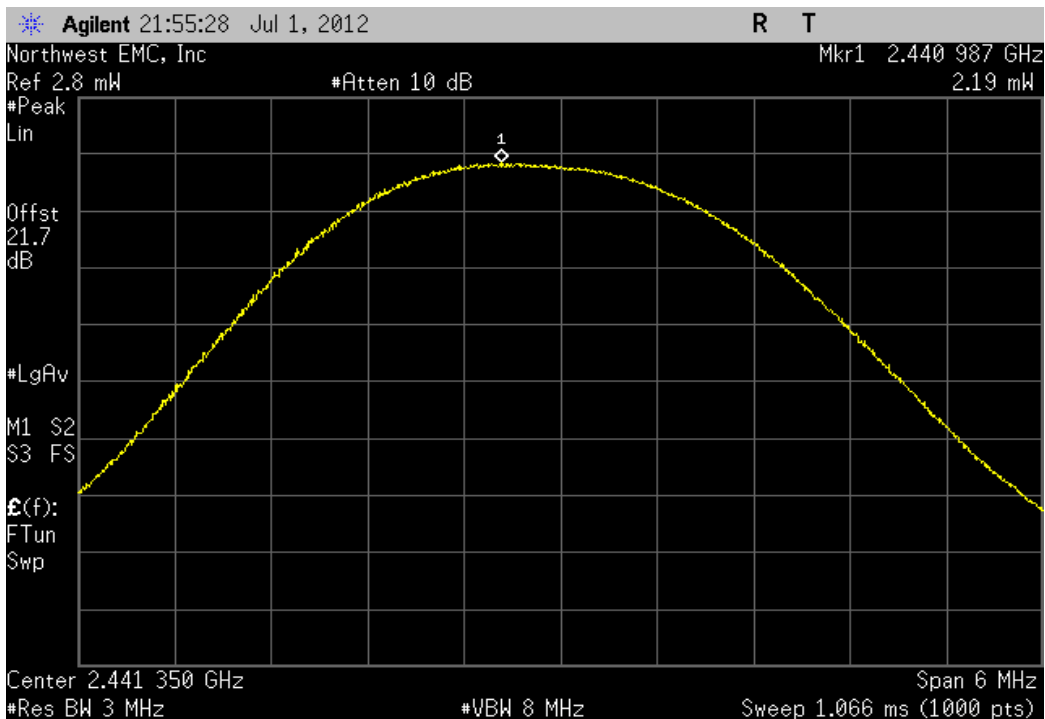
Configuration #	2	Signature <i>Rodry L. Peloquin</i>
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		Value	Limit	Result
Tx Port Ant 0				
	Low Channel 0, 2401.35	2.555 mW	< 1 W	Pass
	Mid Channel 20, 2441.35	2.191 mW	< 1 W	Pass
	High Channel 39, 2479.35	1.751 mW	< 1 W	Pass
Tx Port Ant 1				
	Low Channel 0, 2401.35	567.022 uW	< 1 W	Pass
	Mid Channel 20, 2441.35	375.059 uW	< 1 W	Pass
	High Channel 39, 2479.35	257.513 uW	< 1 W	Pass

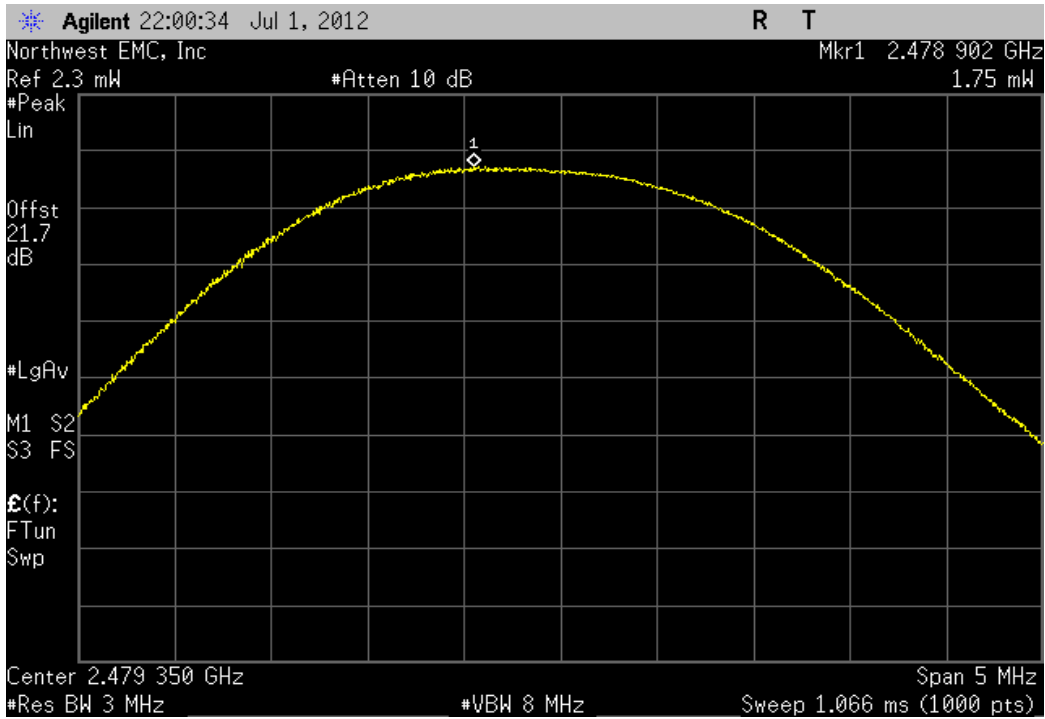
Tx Port Ant 0, Low Channel 0, 2401.35			
	Value	Limit	Result
	2.555 mW	< 1 W	Pass



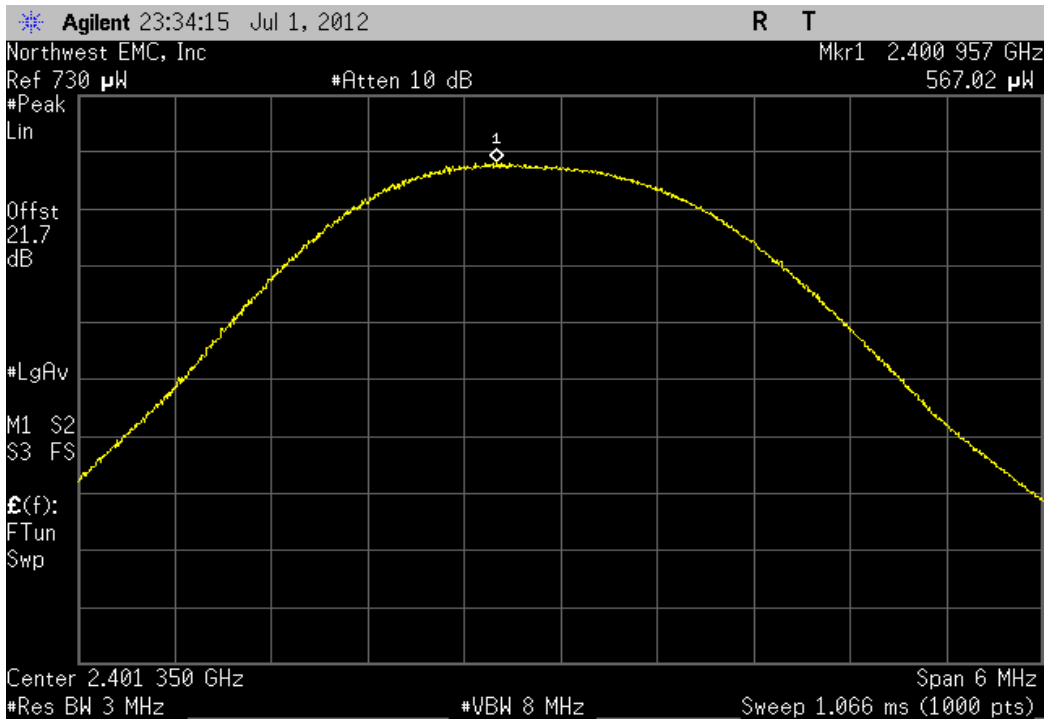
Tx Port Ant 0, Mid Channel 20, 2441.35			
	Value	Limit	Result
	2.191 mW	< 1 W	Pass



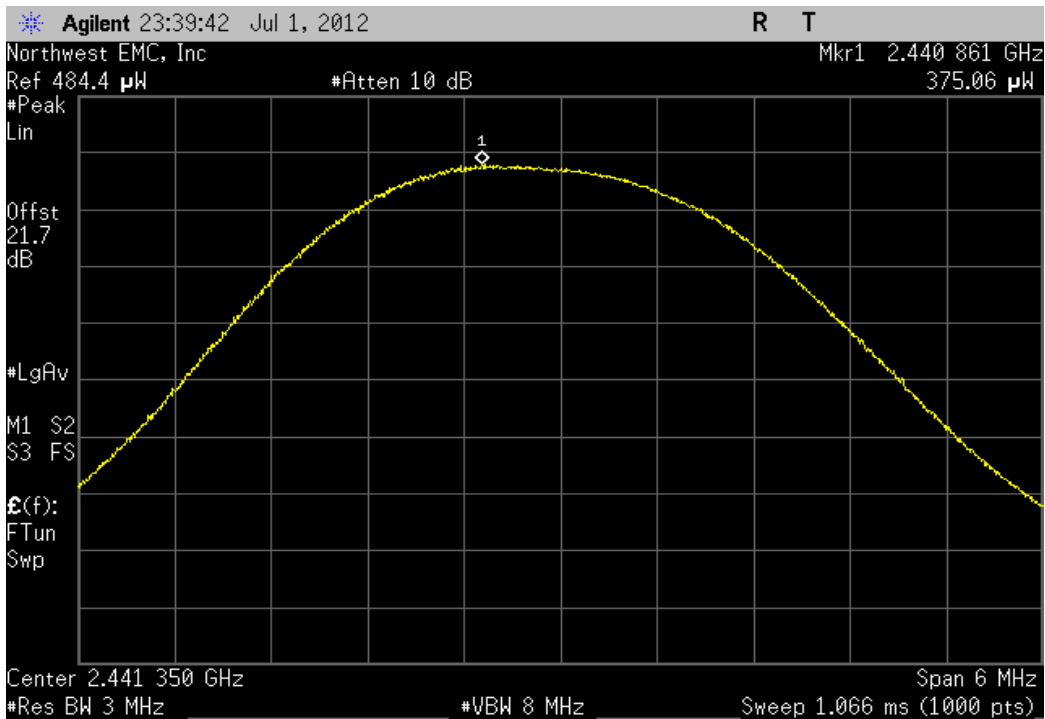
Tx Port Ant 0, High Channel 39, 2479.35			
	Value	Limit	Result
	1.751 mW	< 1 W	Pass



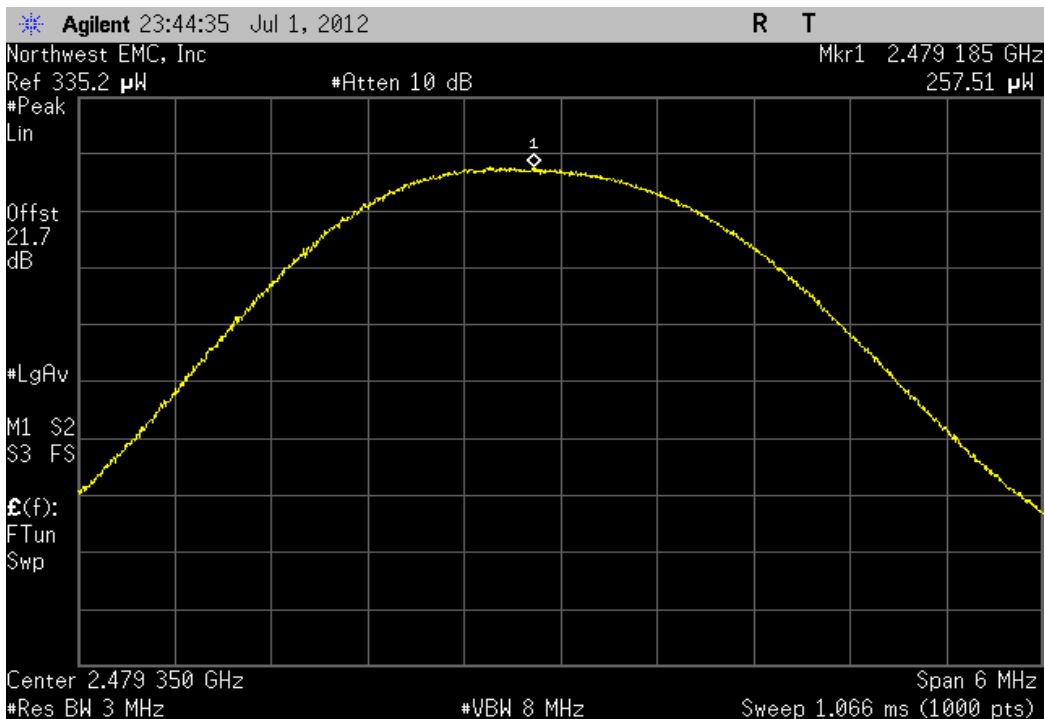
Tx Port Ant 1, Low Channel 0, 2401.35			
	Value	Limit	Result
	567.022 uW	< 1 W	Pass



Tx Port Ant 1, Mid Channel 20, 2441.35			
	Value	Limit	Result
	375.059 uW	< 1 W	Pass



Tx Port Ant 1, High Channel 39, 2479.35			
	Value	Limit	Result
	257.513 uW	< 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 its only modulation available.

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

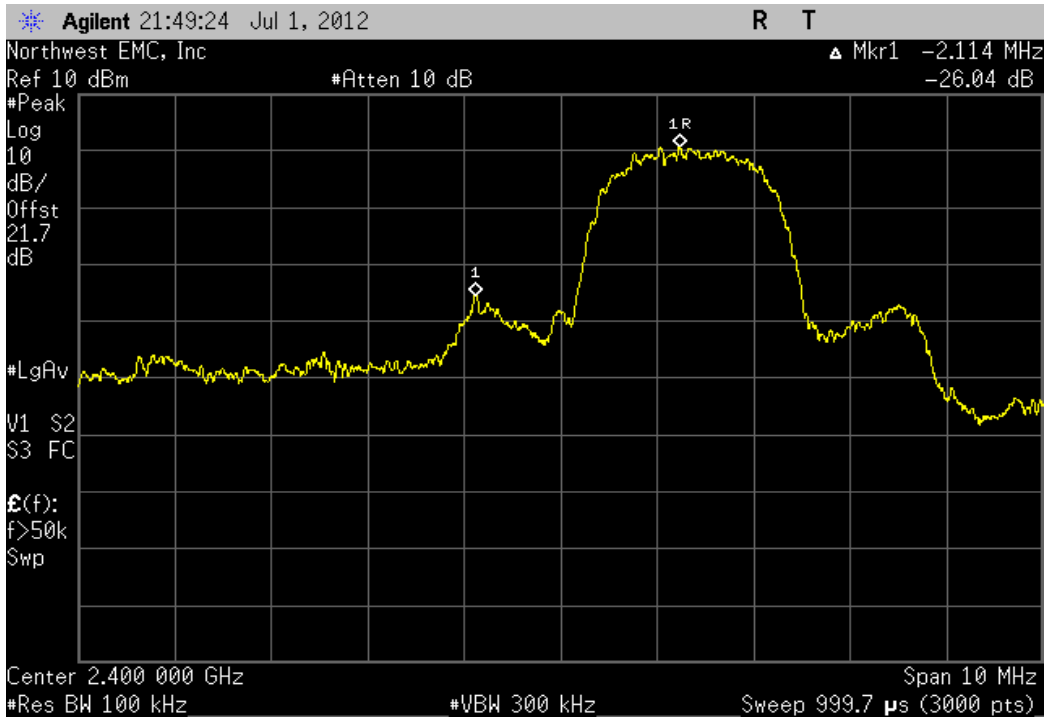


Band Edge Compliance

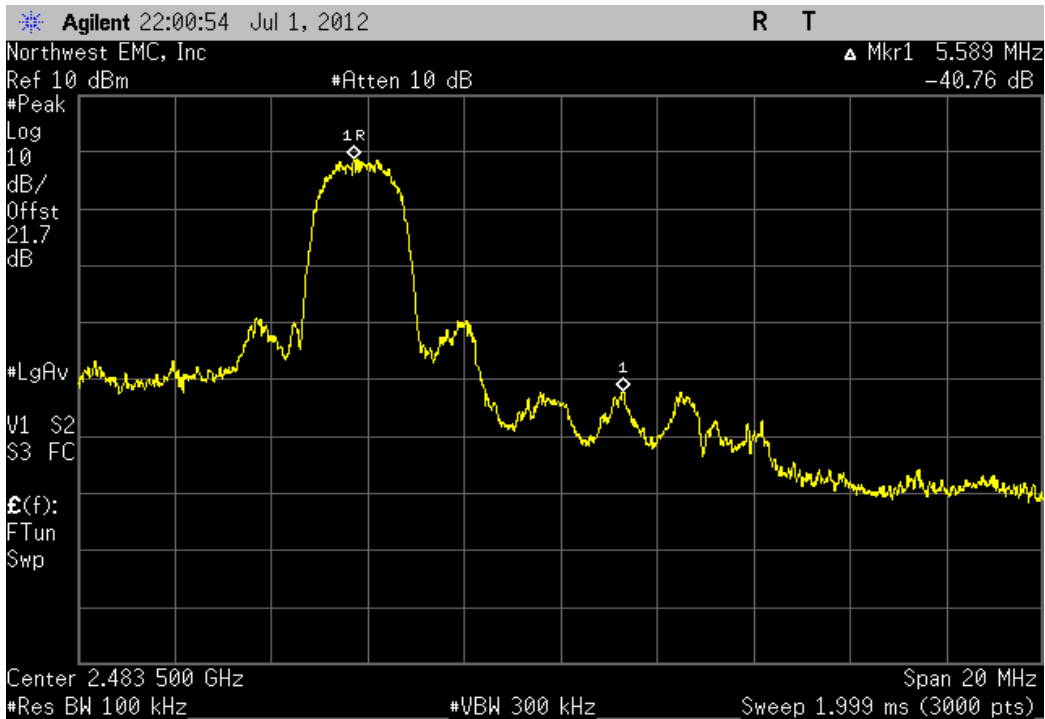
XMit 2012.05.09
PsaTx 2012.05.24

EUT: Audio995USB-02, FCC ID: AL8-995USB02		Work Order: PLNT0005		
Serial Number: USB Dongle 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 #	2	Signature <i>Rod Peloquin</i>		
		Signature		
		Value	Limit	Result
Tx Port Ant 0				
	Low Channel 0, 2401.35	-26.04 dBc	≤ -20 dBc	Pass
	High Channel 39, 2479.35	-40.76 dBc	≤ -20 dBc	Pass
Tx Port Ant 1				
	Low Channel 0, 2401.35	-25.23 dBc	≤ -20 dBc	Pass
	High Channel 39, 2479.35	-41.99 dBc	≤ -20 dBc	Pass

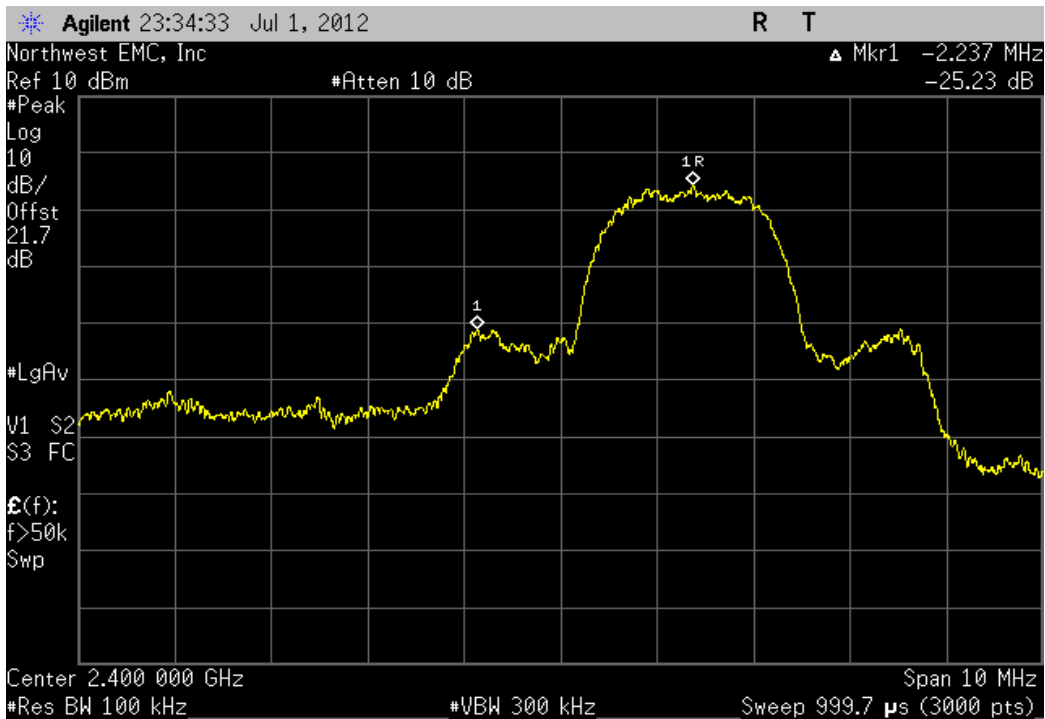
Tx Port Ant 0, Low Channel 0, 2401.35			
	Value	Limit	Result
	-26.04 dBc	≤ -20 dBc	Pass



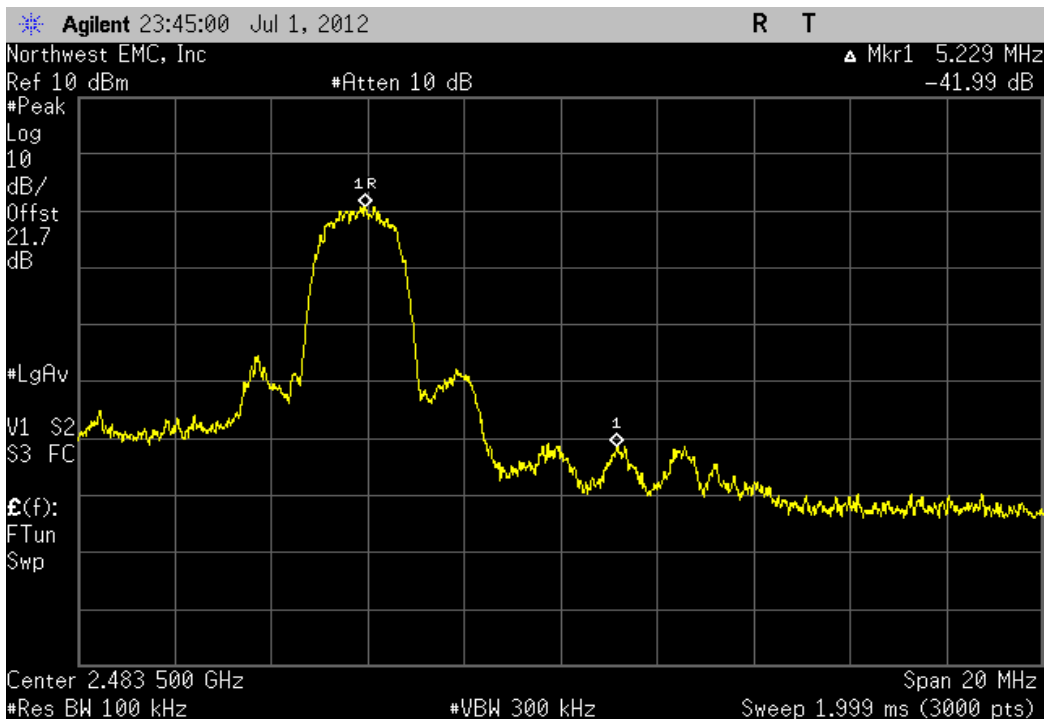
Tx Port Ant 0, High Channel 39, 2479.35			
	Value	Limit	Result
	-40.76 dBc	≤ -20 dBc	Pass



Tx Port Ant 1, Low Channel 0, 2401.35			
	Value	Limit	Result
	-25.23 dBc	≤ -20 dBc	Pass



Tx Port Ant 1, High Channel 39, 2479.35			
	Value	Limit	Result
	-41.99 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

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 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 its only available modulation. 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: Audio995USB-02, FCC ID: AL8-995USB02	Work Order: PLNT0005
Serial Number: None	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

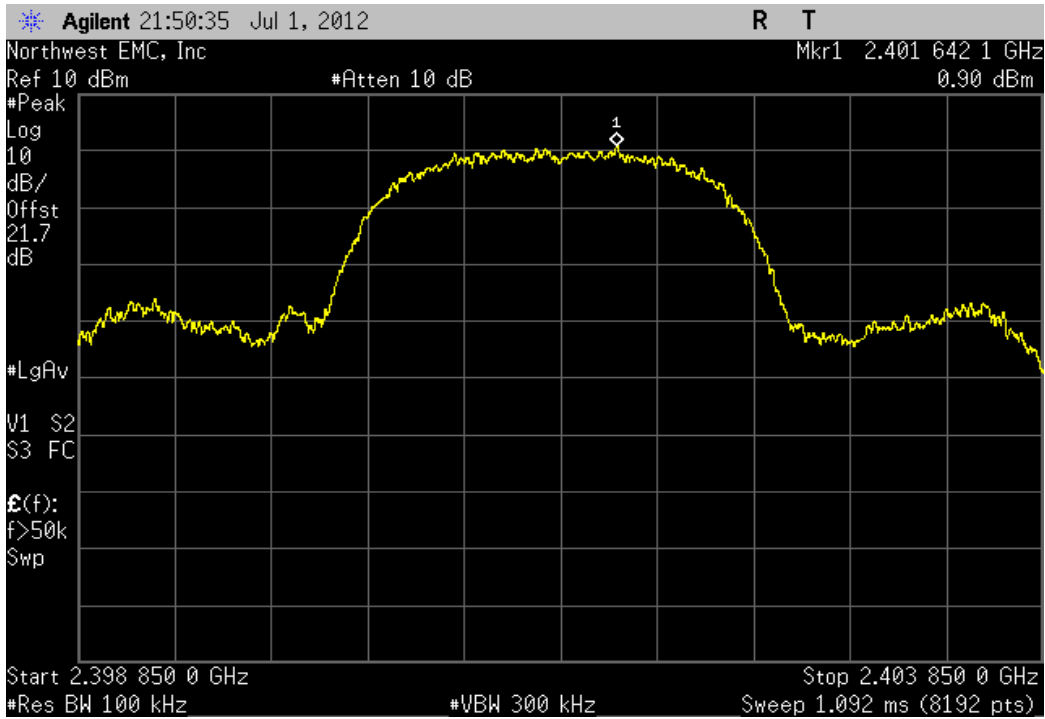
DEVIATIONS FROM TEST STANDARD

None

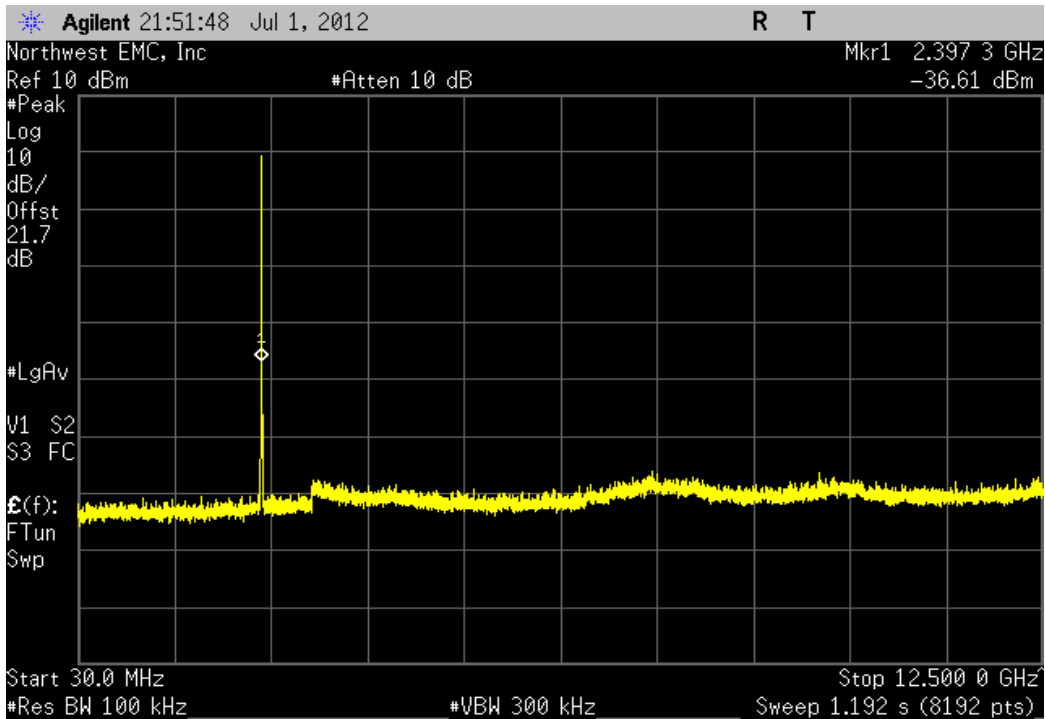
Configuration #	2	Signature <i>Rodry Le Peloy</i>
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	Frequency Range	Value	Limit	Result
Tx Port Ant 0				
Low Channel 0, 2401.35	Fundamental	N/A	N/A	N/A
Low Channel 0, 2401.35	30 MHz - 12.5 GHz	-37.51 dBc	≤ -20 dBc	Pass
Low Channel 0, 2401.35	12.5 GHz - 25 GHz	-53.96 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	-56.62 dBc	≤ -20 dBc	Pass
Mid Channel 20, 2441.35	12.5 GHz - 25 GHz	-53.7 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	-55.14 dBc	≤ -20 dBc	Pass
High Channel 39, 2479.35	12.5 GHz - 25 GHz	-52.11 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	-37.03 dBc	≤ -20 dBc	Pass
Low Channel 0, 2401.35	12.5 GHz - 25 GHz	-46.84 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	-47.75 dBc	≤ -20 dBc	Pass
Mid Channel 20, 2441.35	12.5 GHz - 25 GHz	-44.34 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	-47.22 dBc	≤ -20 dBc	Pass
High Channel 39, 2479.35	12.5 GHz - 25 GHz	-43.67 dBc	≤ -20 dBc	Pass

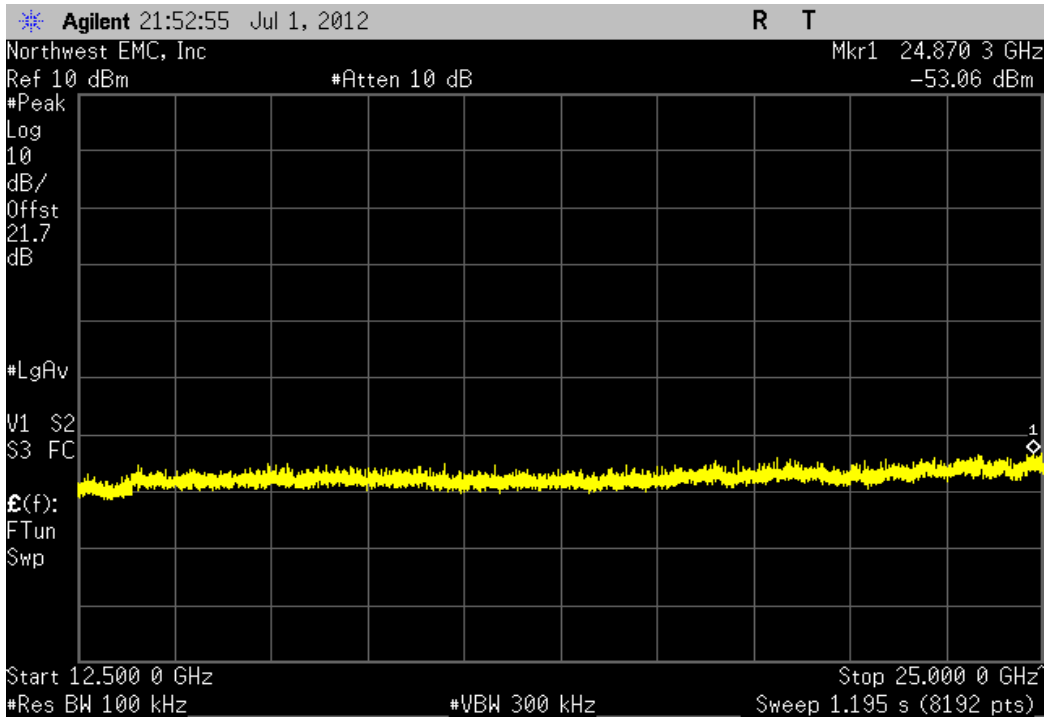
Tx Port Ant 0, Low Channel 0, 2401.35				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



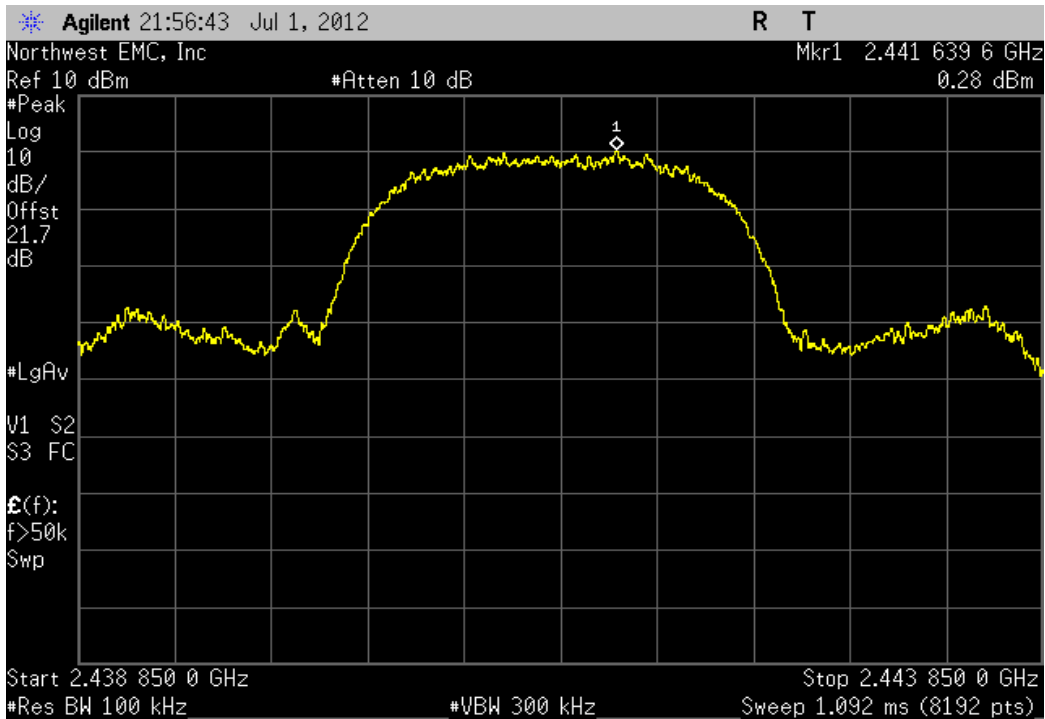
Tx Port Ant 0, Low Channel 0, 2401.35				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-37.51 dBc	≤ -20 dBc	Pass	



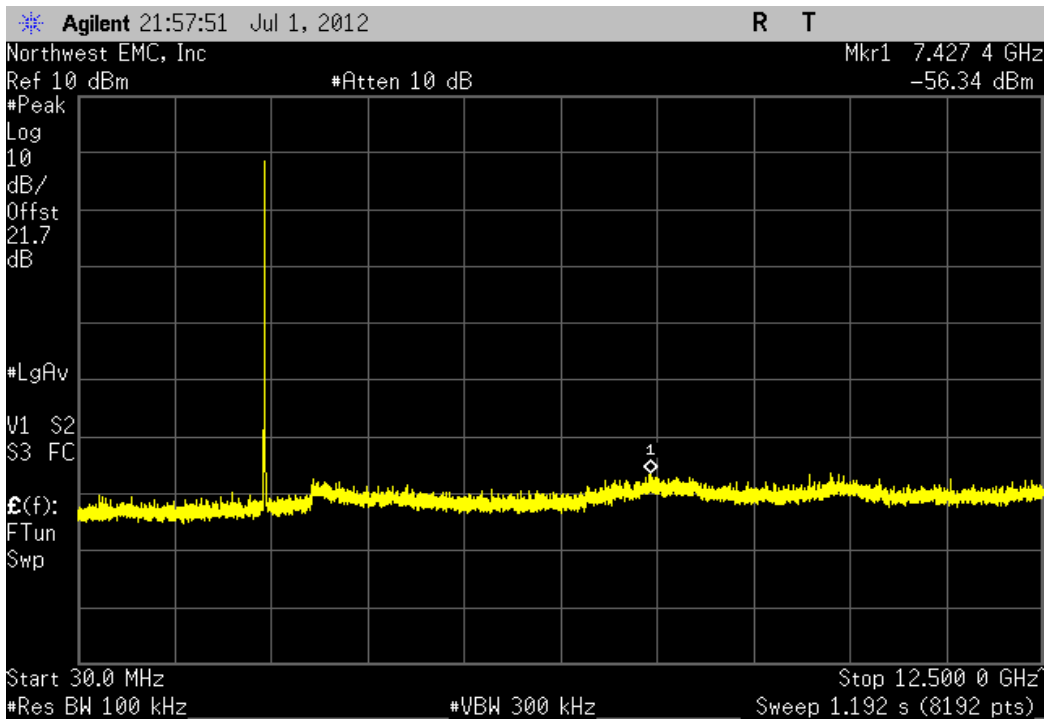
Tx Port Ant 0, Low Channel 0, 2401.35			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-53.96 dBc	≤ -20 dBc	Pass



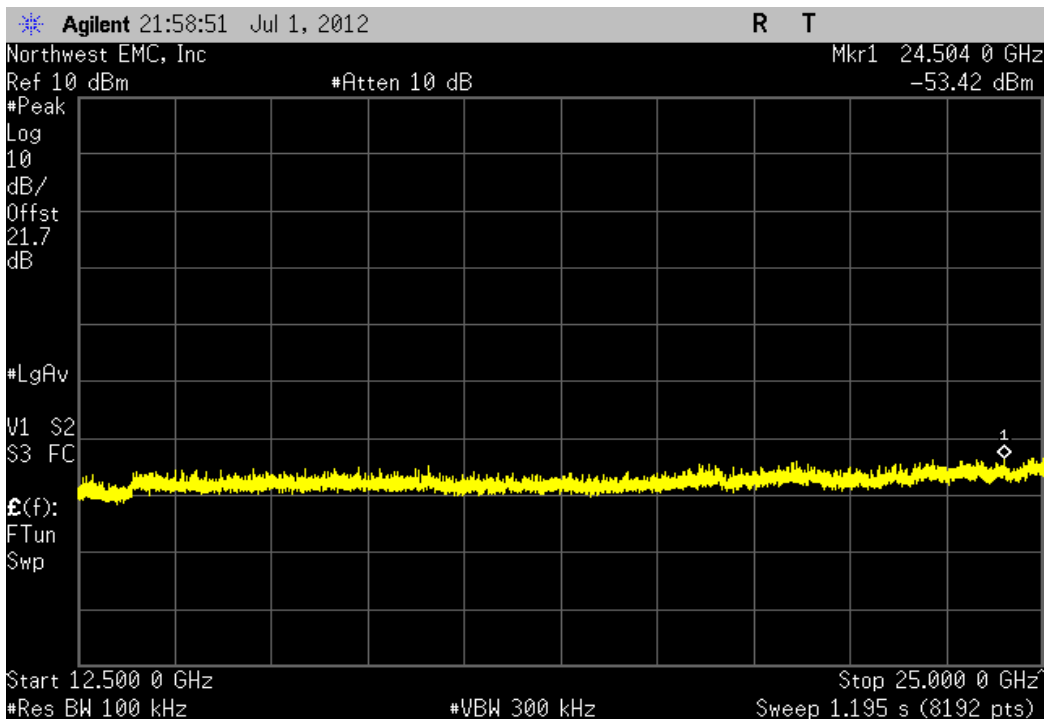
Tx Port Ant 0, Mid Channel 20, 2441.35			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



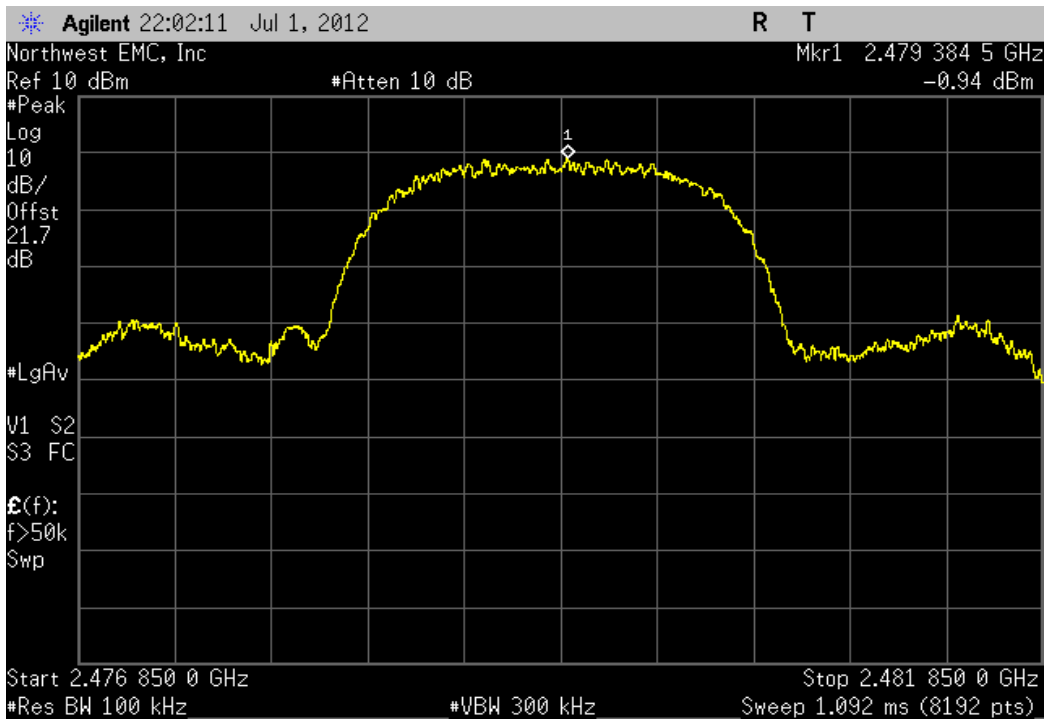
Tx Port Ant 0, Mid Channel 20, 2441.35			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-56.62 dBc	≤ -20 dBc	Pass



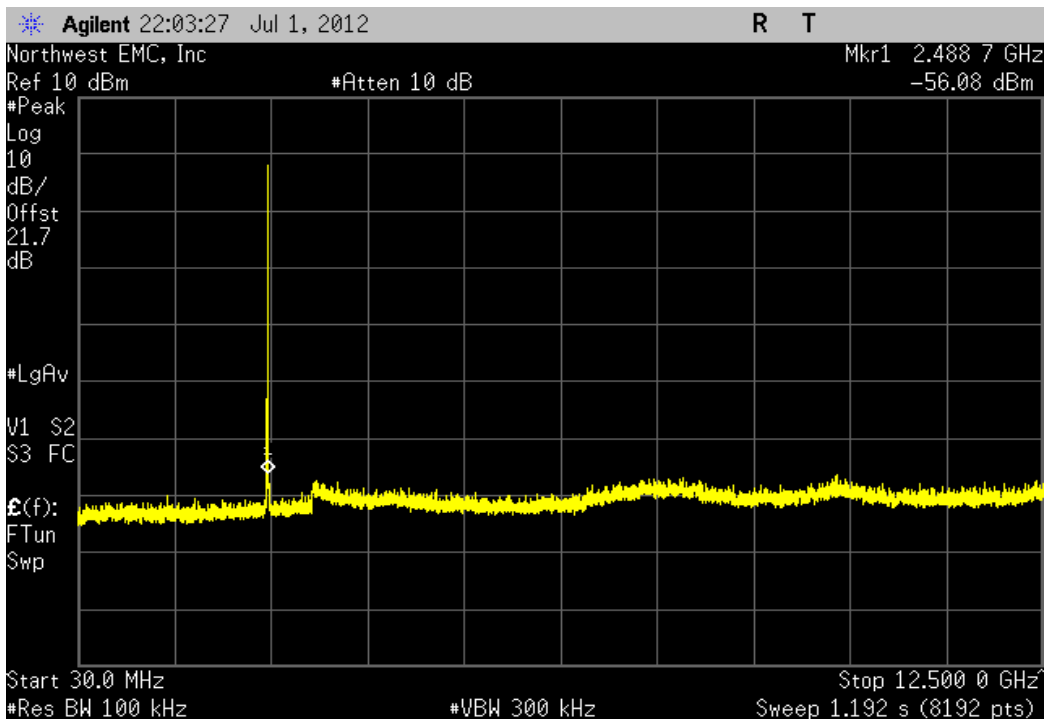
Tx Port Ant 0, Mid Channel 20, 2441.35			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-53.7 dBc	≤ -20 dBc	Pass



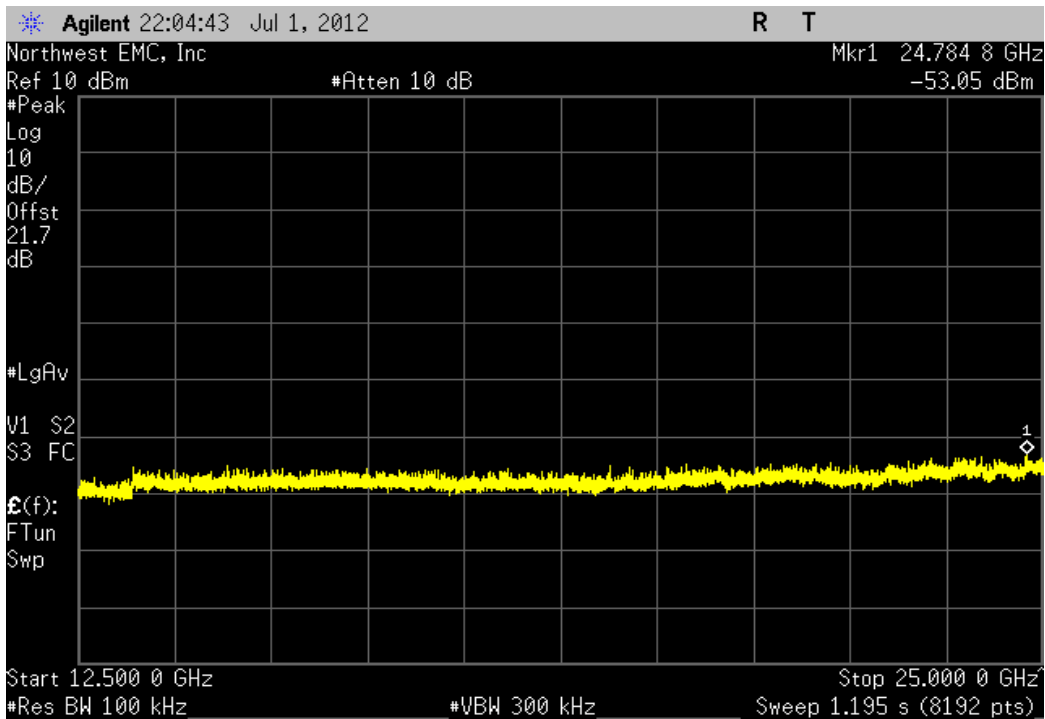
Tx Port Ant 0, High Channel 39, 2479.35				
Frequency Range	Value	Limit	Result	
Fundamental	N/A	N/A	N/A	



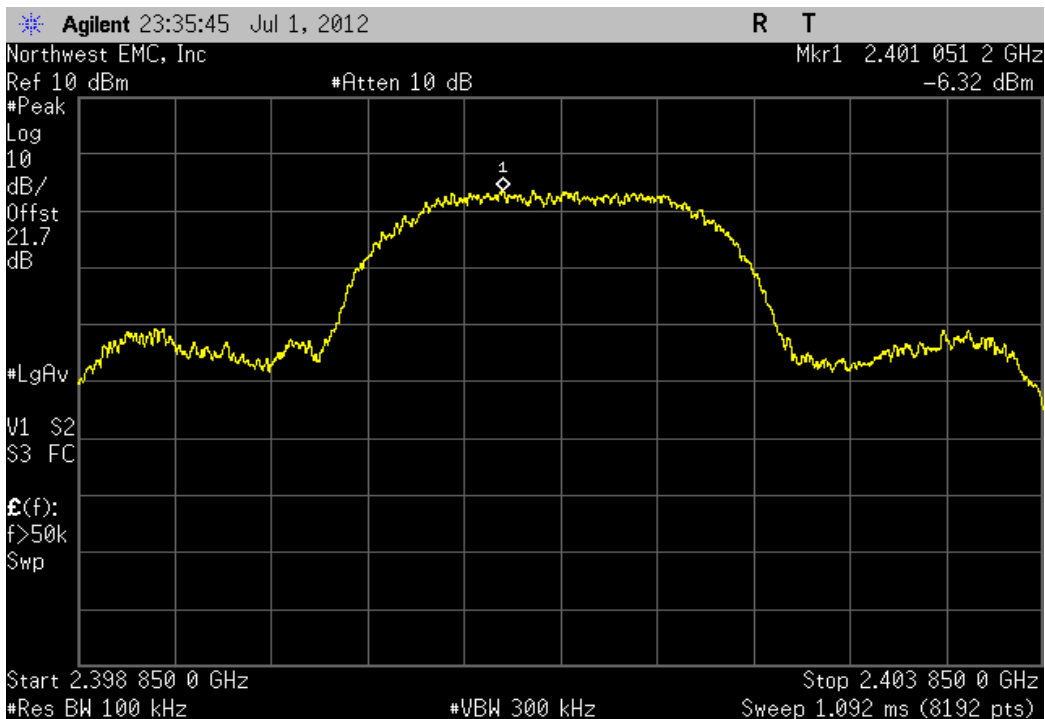
Tx Port Ant 0, High Channel 39, 2479.35				
Frequency Range	Value	Limit	Result	
30 MHz - 12.5 GHz	-55.14 dBc	≤ -20 dBc	Pass	



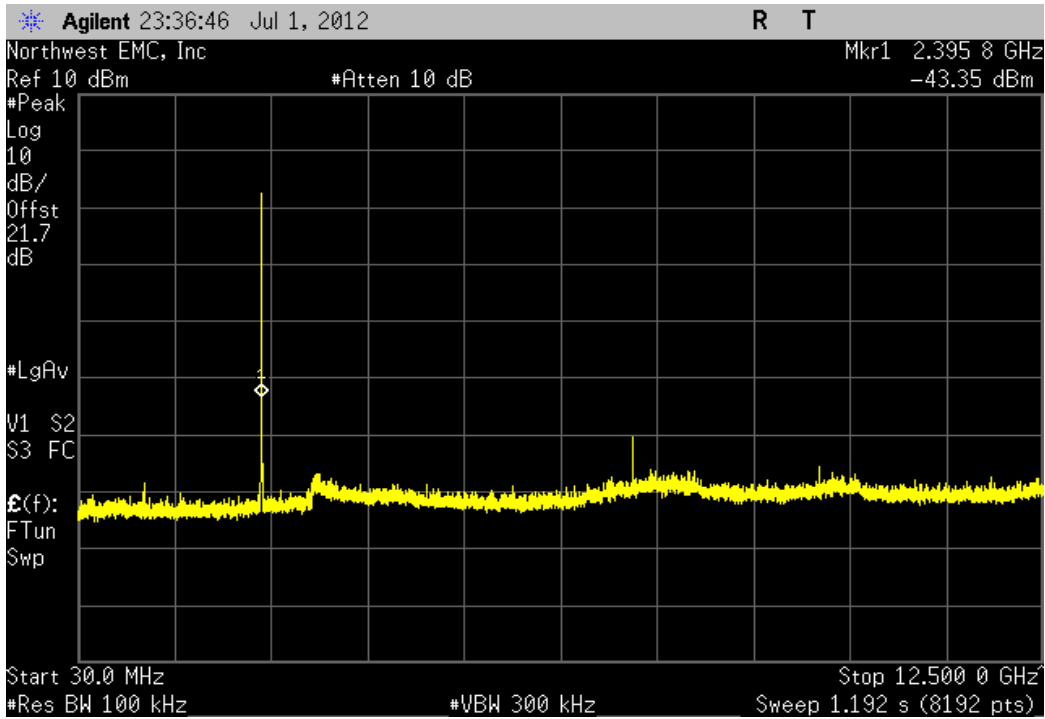
Tx Port Ant 0, High Channel 39, 2479.35			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-52.11 dBc	≤ -20 dBc	Pass



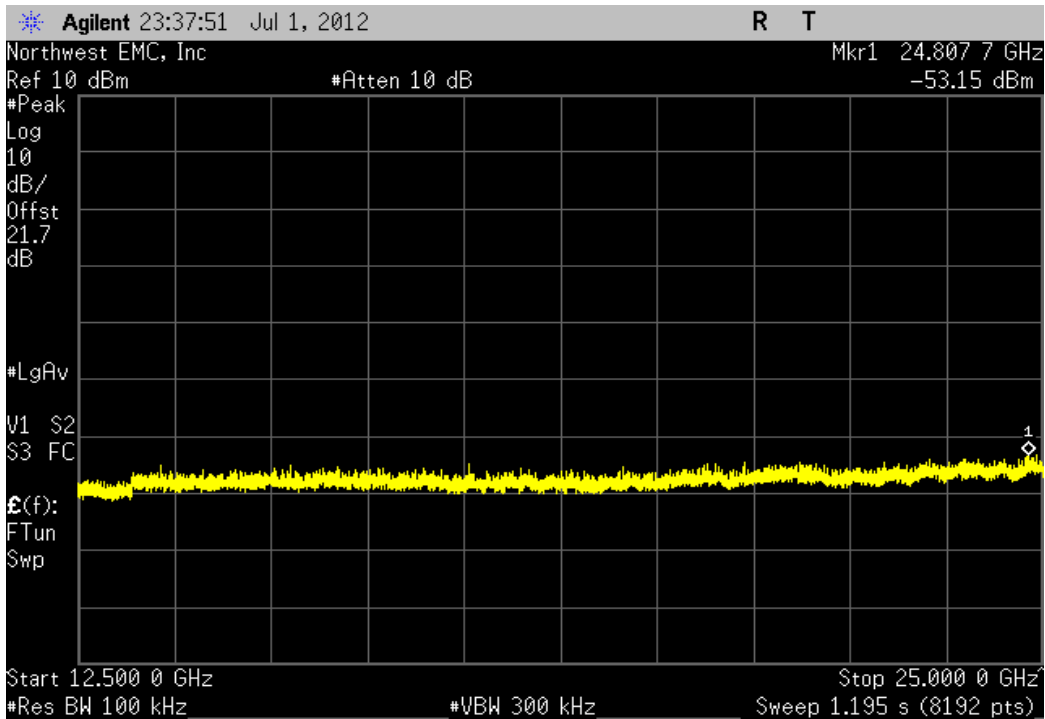
Tx Port Ant 1, Low Channel 0, 2401.35			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



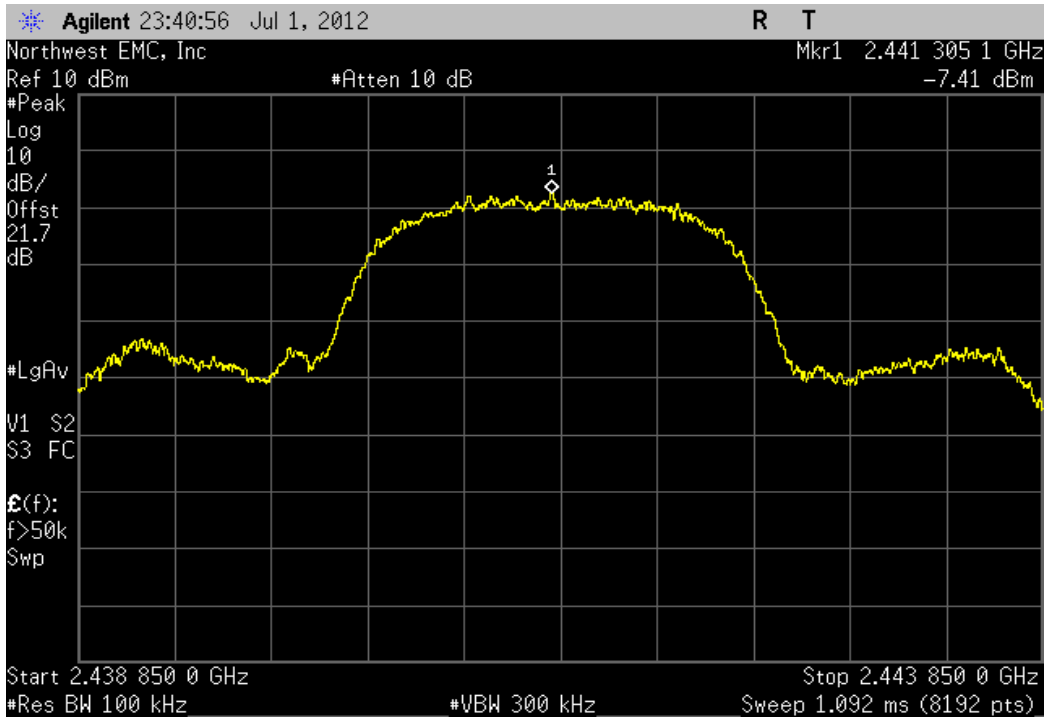
Tx Port Ant 1, Low Channel 0, 2401.35			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-37.03 dBc	≤ -20 dBc	Pass



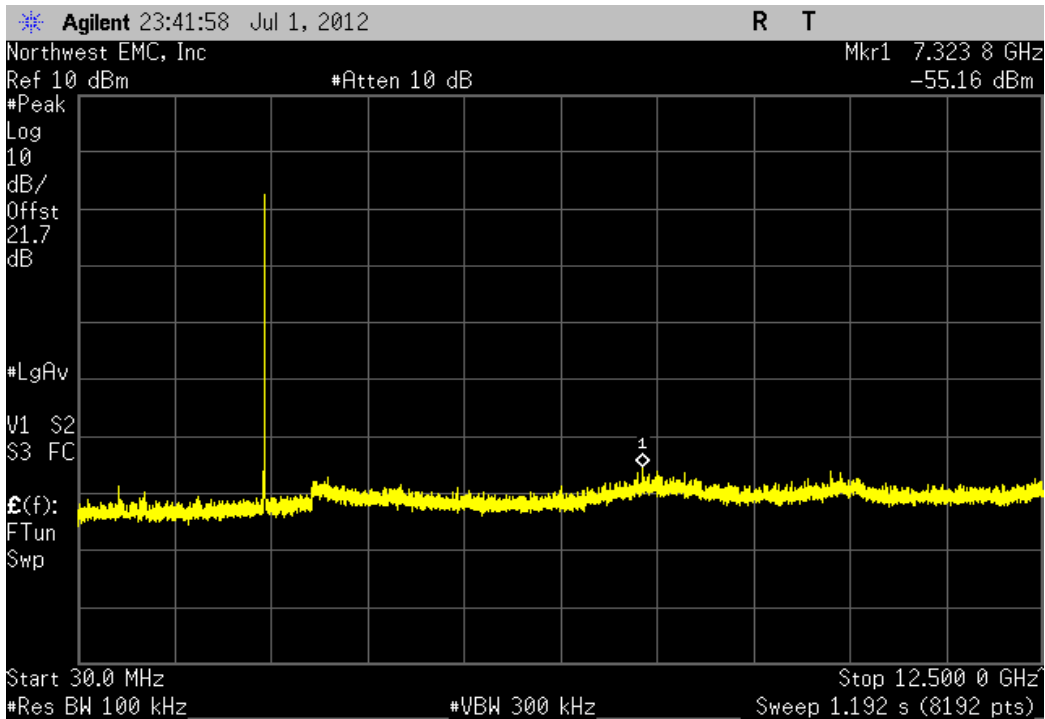
Tx Port Ant 1, Low Channel 0, 2401.35			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-46.84 dBc	≤ -20 dBc	Pass



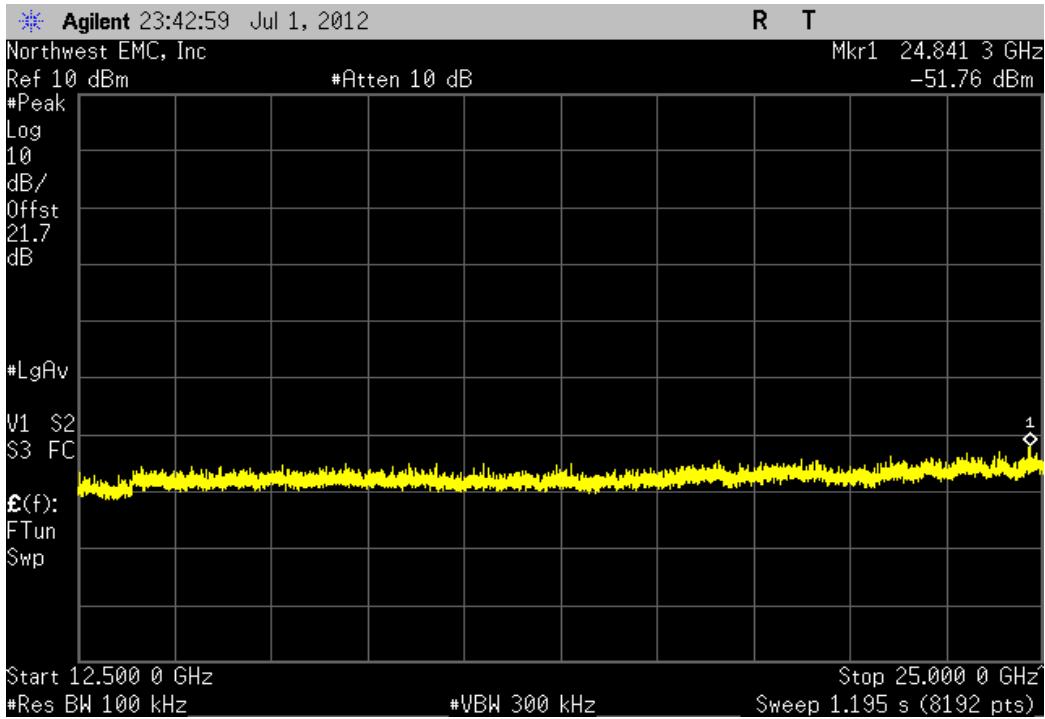
Tx Port Ant 1, Mid Channel 20, 2441.35			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



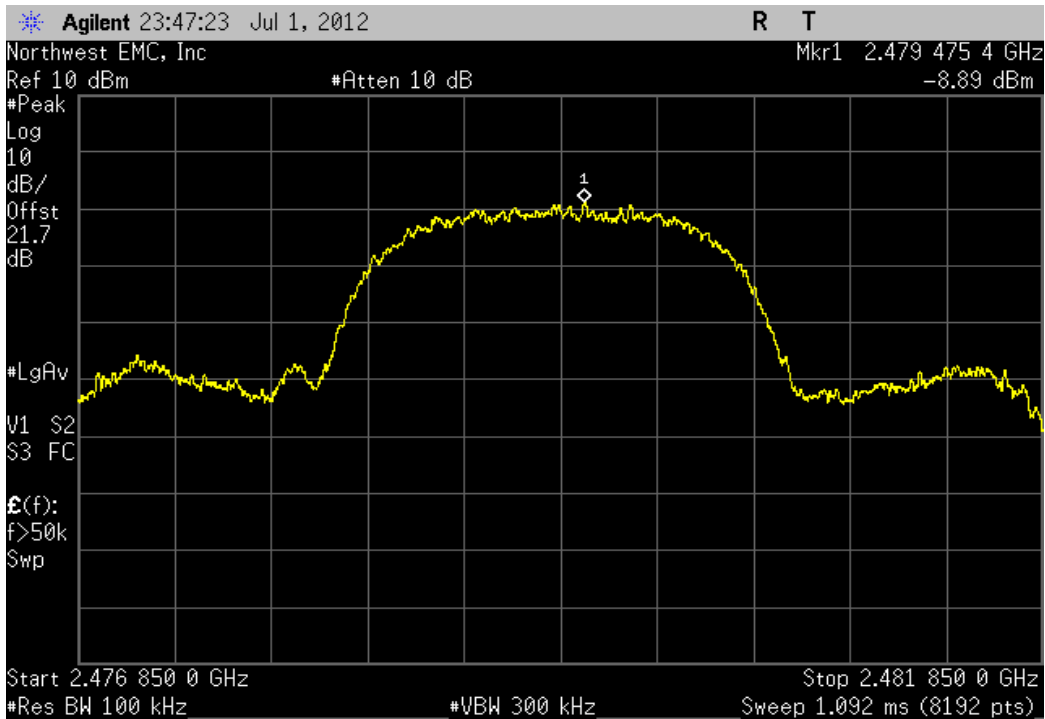
Tx Port Ant 1, Mid Channel 20, 2441.35			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-47.75 dBc	≤ -20 dBc	Pass



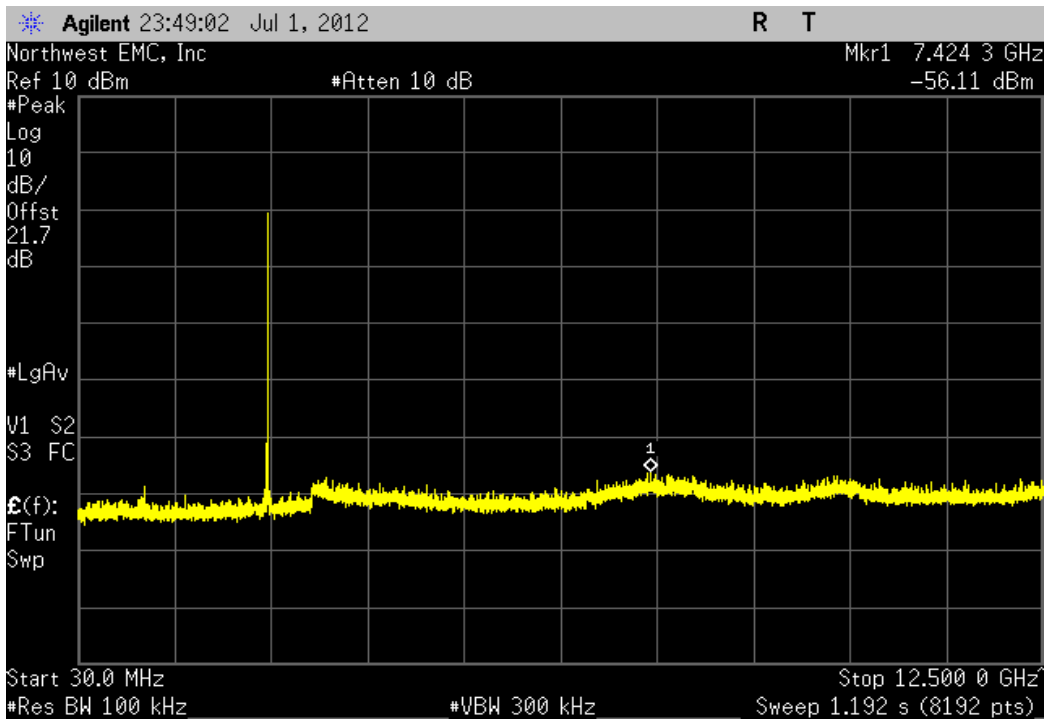
Tx Port Ant 1, Mid Channel 20, 2441.35			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-44.34 dBc	≤ -20 dBc	Pass



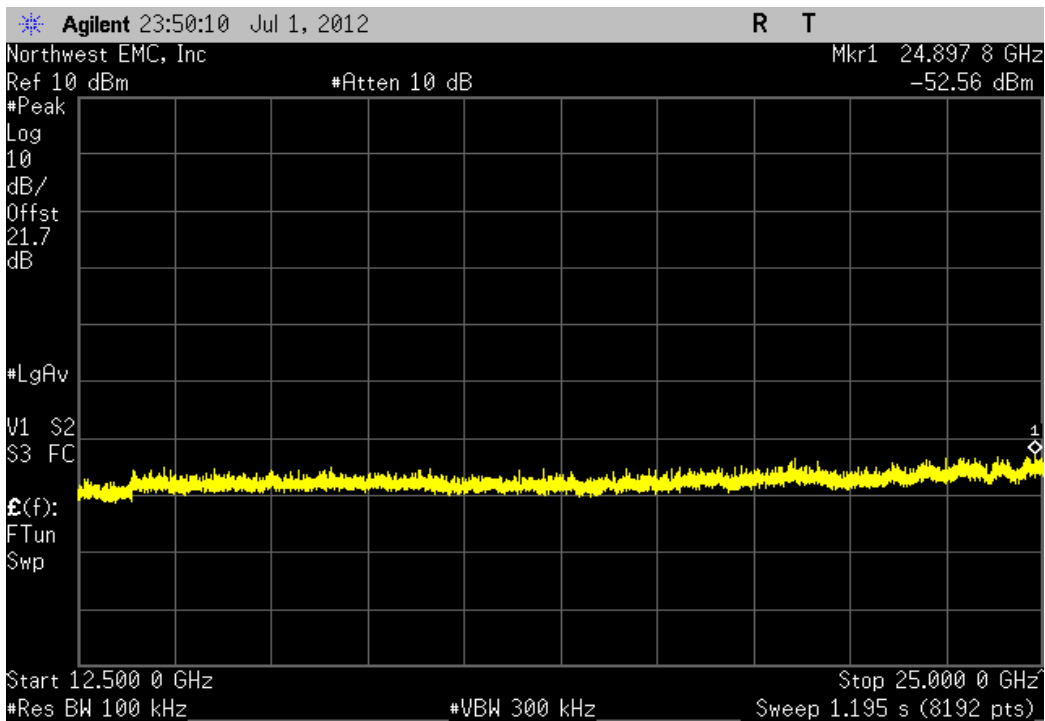
Tx Port Ant 1, High Channel 39, 2479.35			
Frequency Range	Value	Limit	Result
Fundamental	N/A	N/A	N/A



Tx Port Ant 1, High Channel 39, 2479.35			
Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-47.22 dBc	≤ -20 dBc	Pass



Tx Port Ant 1, High Channel 39, 2479.35			
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-43.67 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:

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

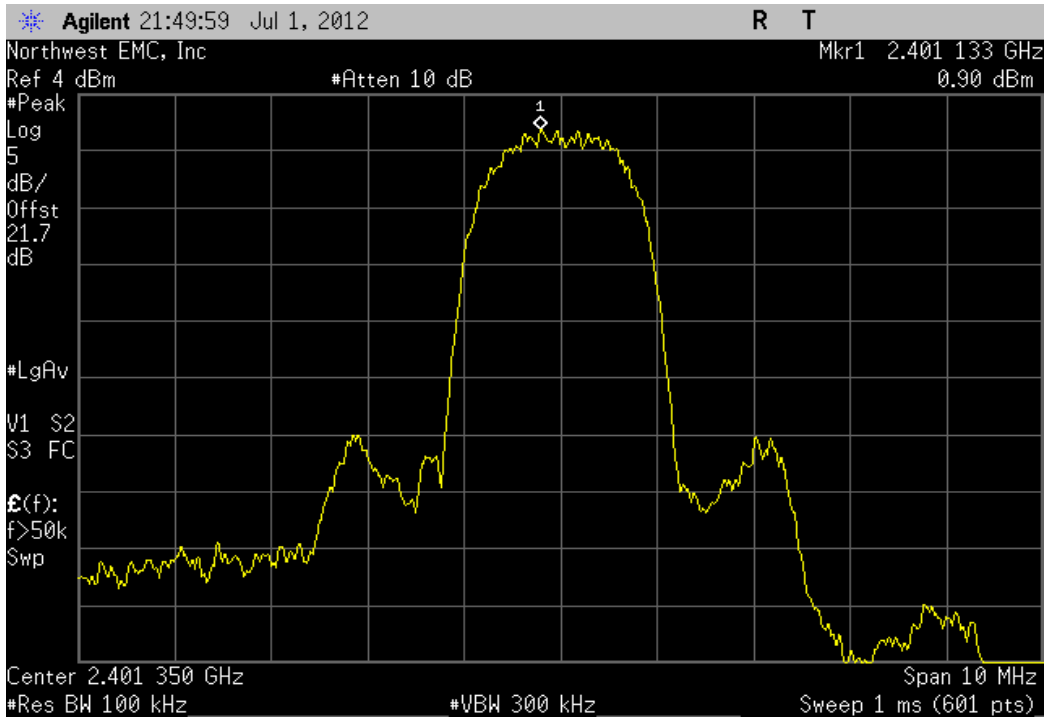


Power Spectral Density

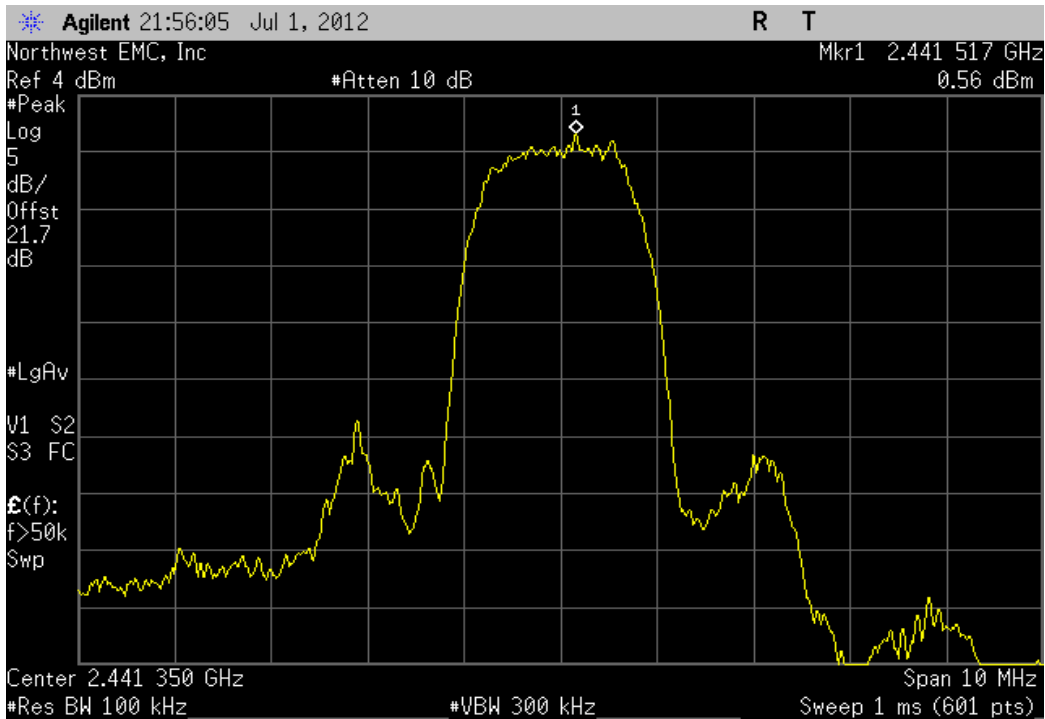
XMit 2012.05.09
PsaTx 2012.05.24

EUT: Audio995USB-02, FCC ID: AL8-995USB02		Work Order: PLNT0005	
Serial Number: USB Dongle 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		TEST METHOD	
COMMENTS			
Transmitting at 100% duty cycle			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature <i>Rodry Le Peloy</i>	
		Value	dBm/100kHz
		To dBm/3kHz	Value
		dBm/3kHz	Limit
			dBm/3kHz
			Result
Tx Port Ant 0			
	Low Channel 0, 2401.35	0.9	-15.2
	Mid Channel 20, 2441.35	-0.555	-15.2
	High Channel 39, 2479.35	-0.133	-15.2
Tx Port Ant 1			
	Low Channel 0, 2401.35	-4.995	-15.2
	Mid Channel 20, 2441.35	-7.244	-15.2
	High Channel 39, 2479.35	-8.93	-15.2

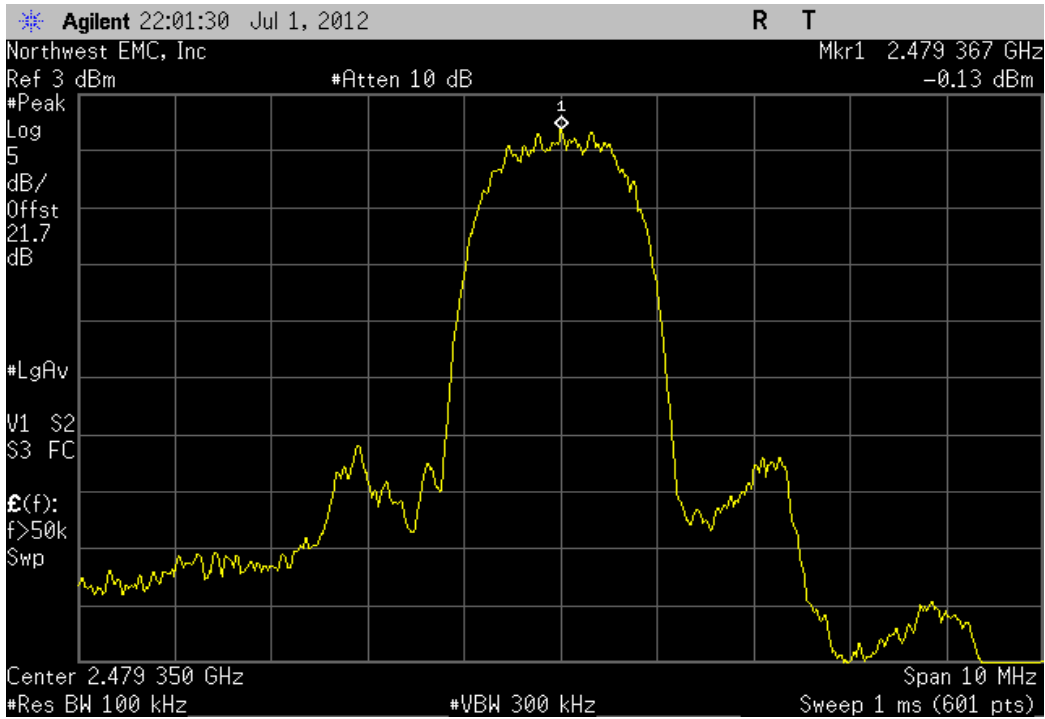
Tx Port Ant 0, Low Channel 0, 2401.35					
	Value	dBm/100kHz	To dBm/3kHz	Value	Limit
	dBm/100kHz			dBm/3kHz	
	0.9		-15.2	-14.3	8
					Result
					Pass



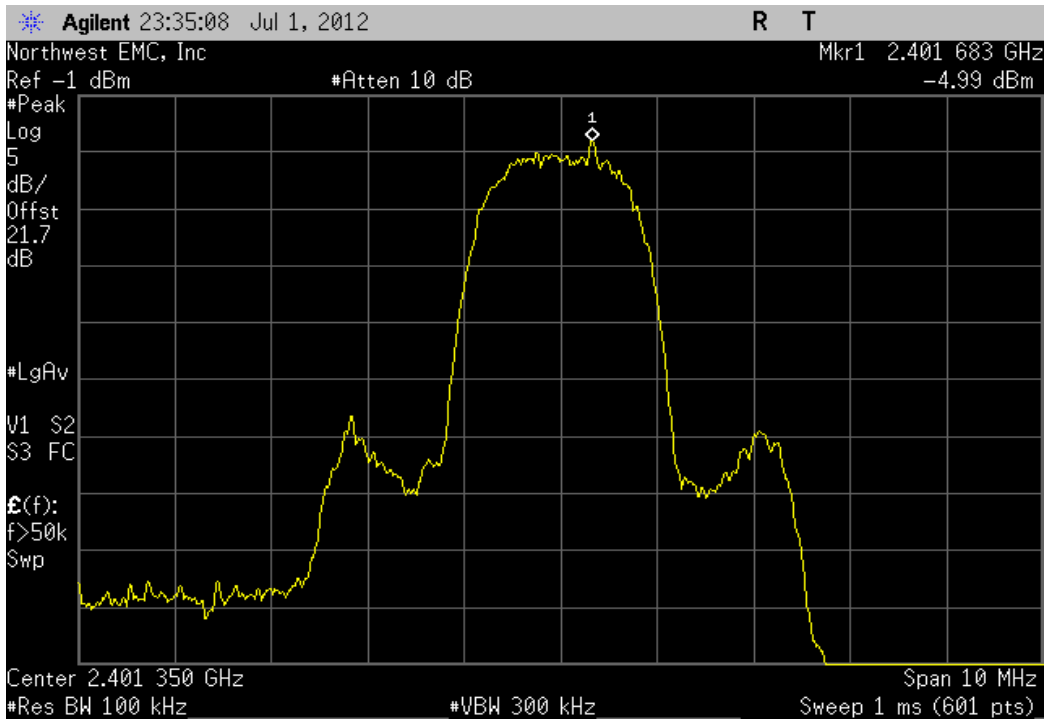
Tx Port Ant 0, Mid Channel 20, 2441.35					
	Value	dBm/100kHz	To dBm/3kHz	Value	Limit
	dBm/100kHz			dBm/3kHz	
	0.555		-15.2	-14.645	8
					Result
					Pass



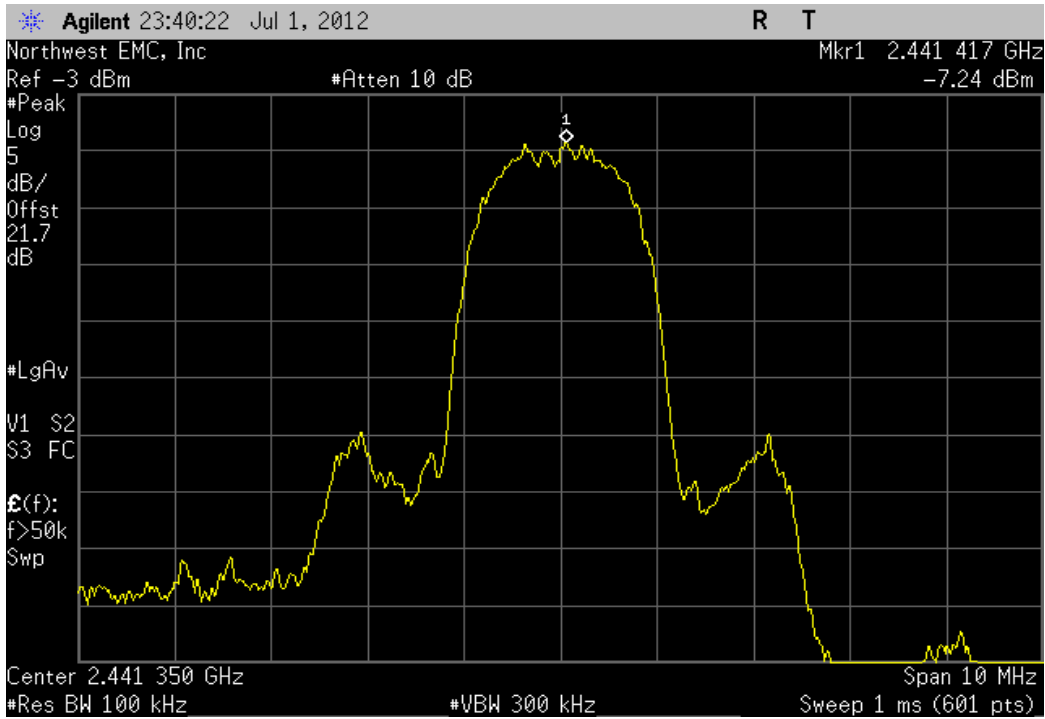
Tx Port Ant 0, High Channel 39, 2479.35					
	Value	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	-0.133	-15.2	-15.333	8	Pass



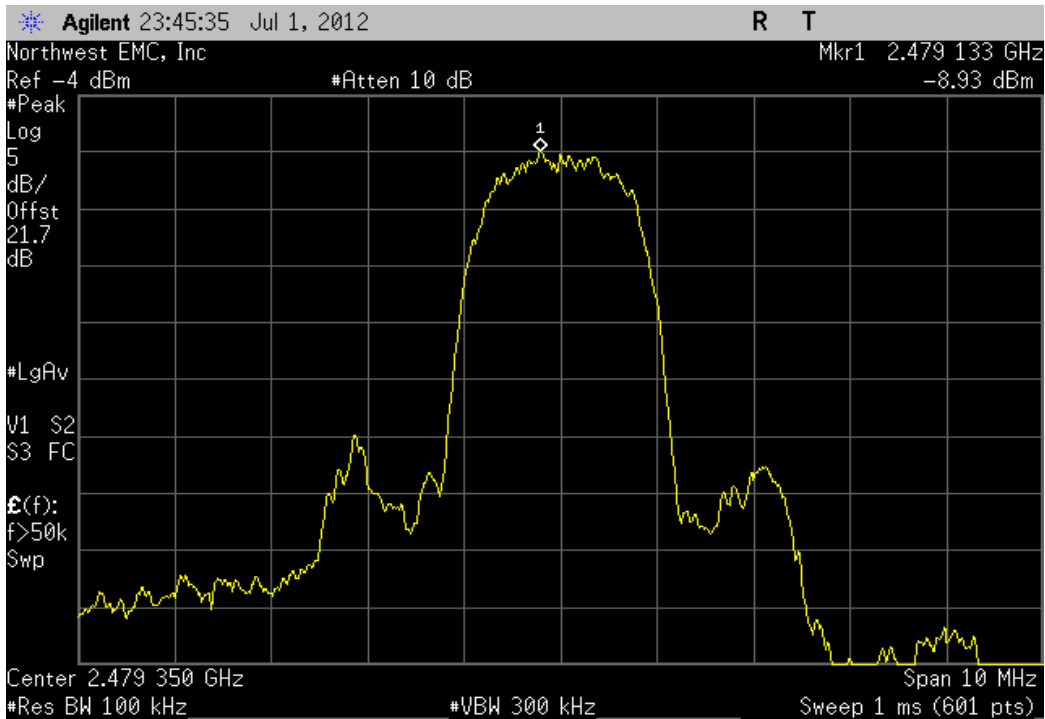
Tx Port Ant 1, Low Channel 0, 2401.35					
	Value	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	-4.995	-15.2	-20.195	8	Pass



Tx Port Ant 1, Mid Channel 20, 2441.35					
	Value	dBm/100kHz	Value	Limit	Result
	dBm/100kHz	To dBm/3kHz	dBm/3kHz	dBm/3kHz	
	-7.244	-15.2	-22.444	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	
	-8.93	-15.2	-24.13	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.



DUTY CYCLE

EUT: Audio995USB-02, FCC ID: AL8-995USB02		Work Order: PLNT0005
Serial Number: USB Dongle 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 #	2	Signature <i>Rodry Le Peloy</i>
		Value Limit Result
DUTY CYCLE		100% N/A N/A

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 - 4

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

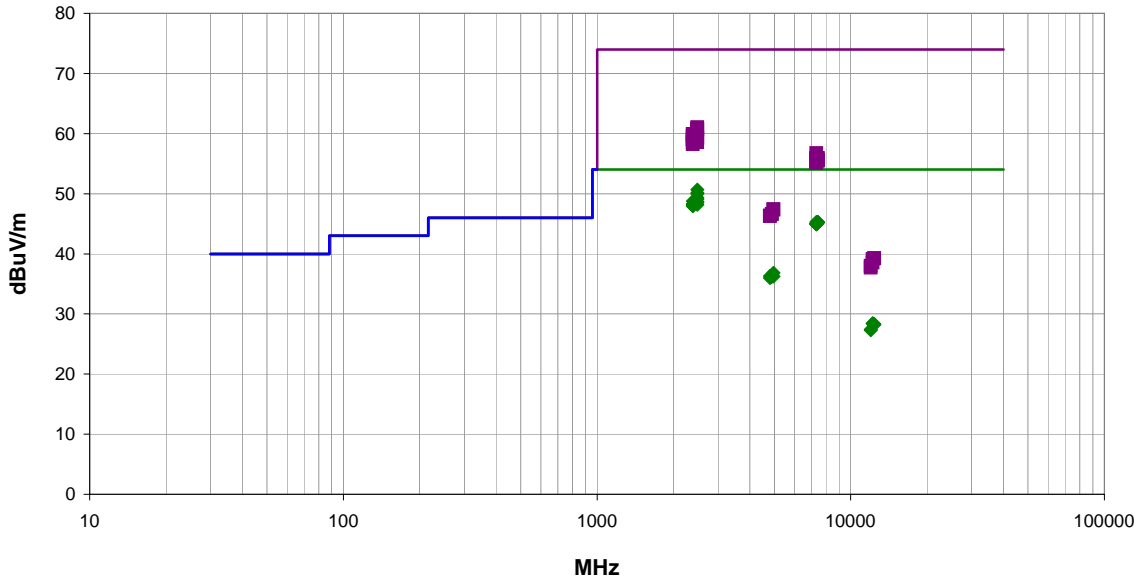
The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify 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 axis, 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:	07/03/12	<i>Carl Engholm</i>
Project:	None	Temperature:	22.9 °C	
Job Site:	EV01	Humidity:	45% RH	
Serial Number:	USB Dongle 02	Barometric Pres.:	1017.3 mbar	
EUT:	.Audio995USB-02, FCC ID: AL8-995USB02			
Configuration:	4			
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 #	12	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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■ PK ◆ AV ● QP

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
2483.503	28.8	1.9	1.0	91.0	3.0	20.0	Horz	AV	0.0	50.7	54.0	-3.3	Ant 1, EUT Horiz, High Ch
2483.517	28.3	1.9	1.0	173.0	3.0	20.0	Horz	AV	0.0	50.2	54.0	-3.8	Ant 0, EUT Horiz, High Ch
2483.543	28.1	1.9	1.0	100.0	3.0	20.0	Vert	AV	0.0	50.0	54.0	-4.0	Ant 0, EUT On End, High Ch
2483.513	27.5	1.9	1.0	133.0	3.0	20.0	Horz	AV	0.0	49.4	54.0	-4.6	Ant 0, EUT On Side, High Ch
2483.577	27.2	1.9	1.4	172.0	3.0	20.0	Horz	AV	0.0	49.1	54.0	-4.9	Ant 0, EUT On End, High Ch
2389.413	27.2	1.5	1.2	173.0	3.0	20.0	Horz	AV	0.0	48.7	54.0	-5.3	Ant 0, EUT Horiz, Low Ch
2483.543	26.8	1.9	1.1	322.0	3.0	20.0	Vert	AV	0.0	48.7	54.0	-5.3	Ant 0, EUT On Side, High Ch
2483.530	26.7	1.9	1.0	218.0	3.0	20.0	Vert	AV	0.0	48.6	54.0	-5.4	Ant 1, EUT Horiz, High Ch
2388.453	26.7	1.6	1.3	50.0	3.0	20.0	Vert	AV	0.0	48.3	54.0	-5.7	Ant 0, EUT On End, Low Ch
2388.883	26.7	1.5	1.0	213.0	3.0	20.0	Horz	AV	0.0	48.2	54.0	-5.8	Ant 0, EUT On Side, Low Ch
2389.803	26.7	1.5	1.0	226.0	3.0	20.0	Vert	AV	0.0	48.2	54.0	-5.8	Ant 0, EUT On Side, Low Ch
2485.493	26.3	1.9	1.0	86.0	3.0	20.0	Vert	AV	0.0	48.2	54.0	-5.8	Ant 0, EUT Horiz, High Ch
2389.870	26.6	1.5	1.0	42.0	3.0	20.0	Horz	AV	0.0	48.1	54.0	-5.9	Ant 1, EUT Horiz, Low Ch
2389.180	26.5	1.5	1.4	197.0	3.0	20.0	Horz	AV	0.0	48.0	54.0	-6.0	Ant 0, EUT On End, Low Ch
2389.133	26.4	1.5	3.3	308.0	3.0	20.0	Vert	AV	0.0	47.9	54.0	-6.1	Ant 1, EUT Horiz, Low Ch
2389.903	26.4	1.5	1.0	358.0	3.0	20.0	Vert	AV	0.0	47.9	54.0	-6.1	Ant 0, EUT Horiz, Low Ch
7324.160	26.3	19.0	1.0	154.0	3.0	0.0	Horz	AV	0.0	45.3	54.0	-8.7	Ant 1, EUT Horiz, Mid Ch
7438.973	25.8	19.5	1.0	326.0	3.0	0.0	Horz	AV	0.0	45.3	54.0	-8.7	Ant 1, EUT Horiz, High Ch
7437.133	25.8	19.5	1.0	188.0	3.0	0.0	Vert	AV	0.0	45.3	54.0	-8.7	Ant 1, EUT Horiz, High Ch
7436.600	25.8	19.5	1.7	124.0	3.0	0.0	Horz	AV	0.0	45.3	54.0	-8.7	Ant 0, EUT Horiz, High Ch
7436.007	25.8	19.4	1.3	301.0	3.0	0.0	Vert	AV	0.0	45.2	54.0	-8.8	Ant 0, EUT Horiz, High Ch
7324.007	26.0	19.0	1.0	63.0	3.0	0.0	Horz	AV	0.0	45.0	54.0	-9.0	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
7323.827	26.0	19.0	1.0	219.0	3.0	0.0	Vert	AV	0.0	45.0	54.0	-9.0	Ant 0, EUT On End, Mid Ch
7323.033	26.0	19.0	1.5	270.0	3.0	0.0	Horz	AV	0.0	45.0	54.0	-9.0	Ant 0, EUT On End, Mid Ch
7322.993	26.0	19.0	1.0	126.0	3.0	0.0	Vert	AV	0.0	45.0	54.0	-9.0	Ant 0, EUT Horiz, Mid Ch
7322.760	25.9	19.0	3.6	68.0	3.0	0.0	Vert	AV	0.0	44.9	54.0	-9.1	Ant 0, EUT On Side, Mid Ch
7322.240	25.9	19.0	1.0	107.0	3.0	0.0	Vert	AV	0.0	44.9	54.0	-9.1	Ant 1, EUT Horiz, Mid Ch
7322.127	25.9	19.0	1.0	300.0	3.0	0.0	Horz	AV	0.0	44.9	54.0	-9.1	Ant 0, EUT On Side, Mid Ch
2483.797	39.2	1.9	1.0	91.0	3.0	20.0	Horz	PK	0.0	61.1	74.0	-12.9	Ant 1, EUT Horiz, High Ch
2483.563	38.9	1.9	1.0	173.0	3.0	20.0	Horz	PK	0.0	60.8	74.0	-13.2	Ant 0, EUT Horiz, High Ch
2483.950	38.8	1.9	1.0	100.0	3.0	20.0	Vert	PK	0.0	60.7	74.0	-13.3	Ant 0, EUT On End, High Ch
2483.633	38.8	1.9	1.0	133.0	3.0	20.0	Horz	PK	0.0	60.7	74.0	-13.3	Ant 0, EUT On Side, High Ch
2388.473	38.4	1.6	1.0	213.0	3.0	20.0	Horz	PK	0.0	60.0	74.0	-14.0	Ant 0, EUT On Side, Low Ch
2388.723	38.3	1.6	1.2	173.0	3.0	20.0	Horz	PK	0.0	59.9	74.0	-14.1	Ant 0, EUT Horiz, Low Ch
2388.653	38.0	1.6	3.3	308.0	3.0	20.0	Vert	PK	0.0	59.6	74.0	-14.4	Ant 1, EUT Horiz, Low Ch
2483.910	37.6	1.9	1.0	218.0	3.0	20.0	Vert	PK	0.0	59.5	74.0	-14.5	Ant 1, EUT Horiz, High Ch
2483.733	37.4	1.9	1.4	172.0	3.0	20.0	Horz	PK	0.0	59.3	74.0	-14.7	Ant 0, EUT On End, High Ch
2483.543	37.4	1.9	1.1	322.0	3.0	20.0	Vert	PK	0.0	59.3	74.0	-14.7	Ant 0, EUT On Side, High Ch
2388.377	37.6	1.6	1.0	358.0	3.0	20.0	Vert	PK	0.0	59.2	74.0	-14.8	Ant 0, EUT Horiz, Low Ch
2389.123	37.5	1.5	1.0	42.0	3.0	20.0	Horz	PK	0.0	59.0	74.0	-15.0	Ant 1, EUT Horiz, Low Ch
2389.677	37.4	1.5	1.0	226.0	3.0	20.0	Vert	PK	0.0	58.9	74.0	-15.1	Ant 0, EUT On Side, Low Ch
2484.153	36.7	1.9	1.0	86.0	3.0	20.0	Vert	PK	0.0	58.6	74.0	-15.4	Ant 0, EUT Horiz, High Ch
2388.523	37.0	1.6	1.3	50.0	3.0	20.0	Vert	PK	0.0	58.6	74.0	-15.4	Ant 0, EUT On End, Low Ch
2389.367	36.7	1.5	1.4	197.0	3.0	20.0	Horz	PK	0.0	58.2	74.0	-15.8	Ant 0, EUT On End, Low Ch
4958.460	26.1	10.7	1.0	177.0	3.0	0.0	Vert	AV	0.0	36.8	54.0	-17.2	Ant 0, EUT Horiz, High Ch
7324.620	37.7	19.0	1.0	154.0	3.0	0.0	Horz	PK	0.0	56.7	74.0	-17.3	Ant 1, EUT Horiz, Mid Ch
4882.860	25.9	10.4	1.0	347.0	3.0	0.0	Horz	AV	0.0	36.3	54.0	-17.7	Ant 0, EUT Horiz, Mid Ch
4802.840	26.1	10.2	1.0	343.0	3.0	0.0	Horz	AV	0.0	36.3	54.0	-17.7	Ant 0, EUT Horiz, Low Ch
4958.593	25.5	10.7	2.0	146.0	3.0	0.0	Horz	AV	0.0	36.2	54.0	-17.8	Ant 0, EUT Horiz, High Ch
4882.140	25.7	10.4	1.0	139.0	3.0	0.0	Vert	AV	0.0	36.1	54.0	-17.9	Ant 0, EUT Horiz, Mid Ch
4801.973	25.8	10.2	3.3	155.0	3.0	0.0	Vert	AV	0.0	36.0	54.0	-18.0	Ant 0, EUT Horiz, Low Ch
7436.967	36.5	19.5	1.7	124.0	3.0	0.0	Horz	PK	0.0	56.0	74.0	-18.0	Ant 0, EUT Horiz, High Ch
7325.420	36.9	19.0	1.0	300.0	3.0	0.0	Horz	PK	0.0	55.9	74.0	-18.1	Ant 0, EUT On Side, Mid Ch
7323.367	36.9	19.0	3.6	68.0	3.0	0.0	Vert	PK	0.0	55.9	74.0	-18.1	Ant 0, EUT On Side, Mid Ch
7323.467	36.8	19.0	1.0	219.0	3.0	0.0	Vert	PK	0.0	55.8	74.0	-18.2	Ant 0, EUT On End, Mid Ch
7439.367	36.2	19.5	1.0	188.0	3.0	0.0	Vert	PK	0.0	55.7	74.0	-18.3	Ant 1, EUT Horiz, High Ch
7438.140	36.1	19.5	1.0	326.0	3.0	0.0	Horz	PK	0.0	55.6	74.0	-18.4	Ant 1, EUT Horiz, High Ch
7439.727	36.0	19.5	1.3	301.0	3.0	0.0	Vert	PK	0.0	55.5	74.0	-18.5	Ant 0, EUT Horiz, High Ch
7324.293	36.4	19.0	1.0	126.0	3.0	0.0	Vert	PK	0.0	55.4	74.0	-18.6	Ant 0, EUT Horiz, Mid Ch
7323.727	36.4	19.0	1.0	107.0	3.0	0.0	Vert	PK	0.0	55.4	74.0	-18.6	Ant 1, EUT Horiz, Mid Ch
7324.007	36.2	19.0	1.0	63.0	3.0	0.0	Horz	PK	0.0	55.2	74.0	-18.8	Ant 0, EUT Horiz, Mid Ch
7323.960	36.1	19.0	1.5	270.0	3.0	0.0	Horz	PK	0.0	55.1	74.0	-18.9	Ant 0, EUT On End, Mid Ch
12205.500	32.6	-4.2	1.0	347.0	3.0	0.0	Vert	AV	0.0	28.4	54.0	-25.6	Ant 0, EUT Horiz, Mid Ch
12205.120	32.6	-4.2	1.0	31.0	3.0	0.0	Horz	AV	0.0	28.4	54.0	-25.6	Ant 0, EUT Horiz, Mid Ch
12395.670	31.2	-2.9	1.0	70.0	3.0	0.0	Vert	AV	0.0	28.3	54.0	-25.7	Ant 0, EUT Horiz, High Ch
12395.270	31.1	-2.9	1.0	10.0	3.0	0.0	Horz	AV	0.0	28.2	54.0	-25.8	Ant 0, EUT Horiz, High Ch
4958.787	36.7	10.7	1.0	177.0	3.0	0.0	Vert	PK	0.0	47.4	74.0	-26.6	Ant 0, EUT Horiz, High Ch
12005.970	32.9	-5.5	1.0	38.0	3.0	0.0	Vert	AV	0.0	27.4	54.0	-26.6	Ant 0, EUT Horiz, Low Ch
4960.860	36.6	10.7	2.0	146.0	3.0	0.0	Horz	PK	0.0	47.3	74.0	-26.7	Ant 0, EUT Horiz, High Ch
12005.500	32.8	-5.5	1.0	240.0	3.0	0.0	Horz	AV	0.0	27.3	54.0	-26.7	Ant 0, EUT Horiz, Low Ch
4884.287	36.2	10.4	1.0	139.0	3.0	0.0	Vert	PK	0.0	46.6	74.0	-27.4	Ant 0, EUT Horiz, Mid Ch
4883.953	36.1	10.4	1.0	347.0	3.0	0.0	Horz	PK	0.0	46.5	74.0	-27.5	Ant 0, EUT Horiz, Mid Ch
4803.113	36.2	10.2	1.0	343.0	3.0	0.0	Horz	PK	0.0	46.4	74.0	-27.6	Ant 0, EUT Horiz, Low Ch
4802.200	36.1	10.2	3.3	155.0	3.0	0.0	Vert	PK	0.0	46.3	74.0	-27.7	Ant 0, EUT Horiz, Low Ch
12395.040	42.2	-2.9	1.0	70.0	3.0	0.0	Vert	PK	0.0	39.3	74.0	-34.7	Ant 0, EUT Horiz, High Ch
12397.350	42.1	-2.9	1.0	10.0	3.0	0.0	Horz	PK	0.0	39.2	74.0	-34.8	Ant 0, EUT Horiz, High Ch
12205.170	43.3	-4.2	1.0	31.0	3.0	0.0	Horz	PK	0.0	39.1	74.0	-34.9	Ant 0, EUT Horiz, Mid Ch
12205.490	42.7	-4.2	1.0	347.0	3.0	0.0	Vert	PK	0.0	38.5	74.0	-35.5	Ant 0, EUT Horiz, Mid Ch
12008.250	43.5	-5.5	1.0	38.0	3.0	0.0	Vert	PK	0.0	38.0	74.0	-36.0	Ant 0, EUT Horiz, Low Ch
12005.910	43.2	-5.5	1.0	240.0	3.0	0.0	Horz	PK	0.0	37.7	74.0	-36.3	Ant 0, EUT Horiz, Low Ch

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

MODES OF OPERATION

Transmitting high channel, 100% duty cycle
 Transmitting mid channel, 100% duty cycle
 Transmitting low channel, 100% duty cycle

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

PLNT0005 - 5

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar	9252-50-R-24-BNC	LIR	11/4/2011	12 mo
Receiver	Rohde & Schwarz	ESCI	ARH	3/29/2012	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HHD	2/1/2012	24 mo
Attenuator	Coaxicom	66702 2910-20	RBR	8/3/2011	12 mo
EV07 Cables	N/A	Conducted Cables	EVG	4/27/2012	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

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

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

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



AC POWERLINE CONDUCTED EMISSIONS

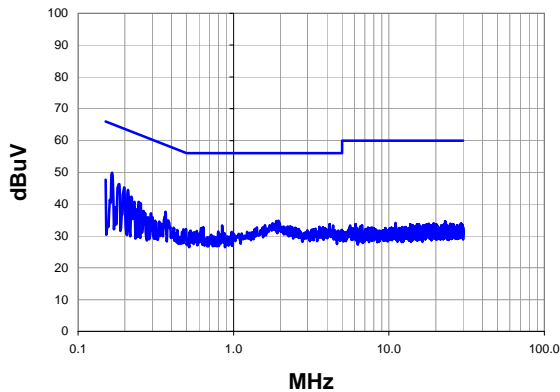
PSA-ESCI 2012.05.07
PSA-ESCI Version 2011.12.21

Work Order:	PLNT0005	Date:	07/06/12	<i>Carl Engholm</i>
Project:	None	Temperature:	24.1 °C	
Job Site:	EV07	Humidity:	45% RH	
Serial Number:	USB Dongle 02	Barometric Pres.:	1017.8 mbar	
Tested by: Carl Engholm				
EUT:	.Audio995USB-02, FCC ID: AL8-995USB02			
Configuration:	5			
Customer:	Plantronics			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting low channel, 100% duty cycle			
Deviations:	None			
Comments:	None			

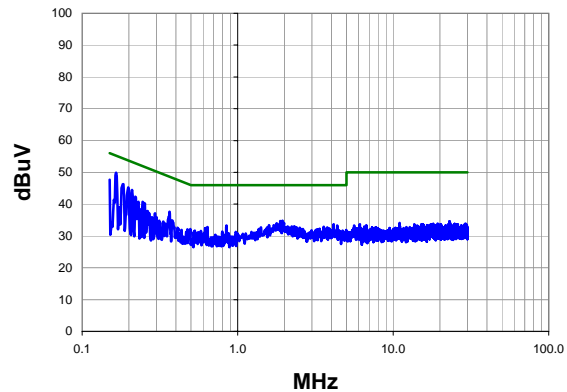
Test Specifications	Test Method
FCC 15.207:2012	ANSI C63.10:2009

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



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.165	29.5	20.4	49.9	65.2	-15.3
0.184	25.9	20.3	46.2	64.3	-18.1
0.150	27.2	20.5	47.7	66.0	-18.3
0.198	24.9	20.4	45.3	63.7	-18.5
0.210	24.1	20.4	44.5	63.2	-18.8
0.220	22.0	20.4	42.4	62.8	-20.5
0.364	17.3	20.3	37.6	58.6	-21.0
0.245	20.4	20.3	40.7	61.9	-21.2
1.944	14.3	20.5	34.8	56.0	-21.2
1.880	14.2	20.5	34.7	56.0	-21.3
0.254	19.9	20.3	40.2	61.6	-21.4
0.230	20.4	20.4	40.8	62.5	-21.7
4.152	13.1	20.6	33.7	56.0	-22.3
1.592	13.0	20.4	33.4	56.0	-22.6
0.845	12.9	20.4	33.3	56.0	-22.7
4.368	12.6	20.7	33.3	56.0	-22.7
2.304	12.5	20.5	33.0	56.0	-23.0
3.576	12.3	20.6	32.9	56.0	-23.1
0.640	12.5	20.3	32.8	56.0	-23.2
1.544	12.3	20.4	32.7	56.0	-23.3

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.165	29.5	20.4	49.9	55.2	-5.3
0.184	25.9	20.3	46.2	54.3	-8.1
0.150	27.2	20.5	47.7	56.0	-8.3
0.198	24.9	20.4	45.3	53.7	-8.5
0.210	24.1	20.4	44.5	53.2	-8.8
0.220	22.0	20.4	42.4	52.8	-10.5
0.364	17.3	20.3	37.6	48.6	-11.0
0.245	20.4	20.3	40.7	51.9	-11.2
1.944	14.3	20.5	34.8	46.0	-11.2
1.880	14.2	20.5	34.7	46.0	-11.3
0.254	19.9	20.3	40.2	51.6	-11.4
0.230	20.4	20.4	40.8	52.5	-11.7
4.152	13.1	20.6	33.7	46.0	-12.3
1.592	13.0	20.4	33.4	46.0	-12.6
0.845	12.9	20.4	33.3	46.0	-12.7
4.368	12.6	20.7	33.3	46.0	-12.7
2.304	12.5	20.5	33.0	46.0	-13.0
3.576	12.3	20.6	32.9	46.0	-13.1
0.640	12.5	20.3	32.8	46.0	-13.2
1.544	12.3	20.4	32.7	46.0	-13.3



AC POWERLINE CONDUCTED EMISSIONS

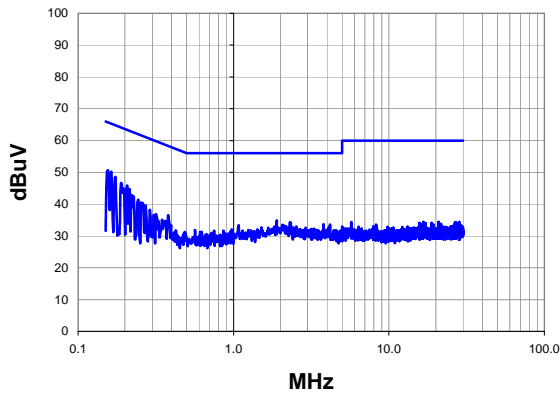
PSA-ESCI 2012.05.07
PSA-ESCI Version 2011.12.21

Work Order:	PLNT0005	Date:	07/06/12	<i>Carl Engholm</i>
Project:	None	Temperature:	24.1 °C	
Job Site:	EV07	Humidity:	45% RH	
Serial Number:	USB Dongle 02	Barometric Pres.:	1017.8 mbar	
Tested by: Carl Engholm				
EUT:	.Audio995USB-02, FCC ID: AL8-995USB02			
Configuration:	5			
Customer:	Plantronics			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting low channel, 100% duty cycle			
Deviations:	None			
Comments:	None			

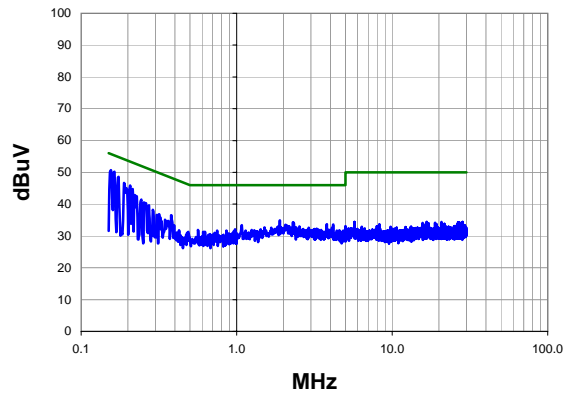
Test Specifications	Test Method
FCC 15.207:2012	ANSI C63.10:2009

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



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.155	30.3	20.4	50.7	65.7	-15.0
0.164	29.8	20.4	50.2	65.3	-15.1
0.174	28.2	20.3	48.5	64.8	-16.2
0.189	26.3	20.3	46.6	64.1	-17.4
0.206	25.5	20.4	45.9	63.4	-17.5
0.215	24.4	20.4	44.8	63.0	-18.3
0.221	22.5	20.4	42.9	62.8	-19.9
0.227	22.2	20.4	42.6	62.6	-20.0
0.243	21.1	20.3	41.4	62.0	-20.5
0.254	20.2	20.3	40.5	61.6	-21.1
1.896	14.4	20.5	34.9	56.0	-21.1
0.272	19.3	20.3	39.6	61.0	-21.4
2.304	13.8	20.5	34.3	56.0	-21.7
0.380	16.2	20.3	36.5	58.3	-21.8
0.289	17.9	20.3	38.2	60.5	-22.3
3.800	13.1	20.6	33.7	56.0	-22.3
4.176	13.0	20.6	33.6	56.0	-22.4
1.080	13.0	20.4	33.4	56.0	-22.6
5.000	12.3	20.7	33.0	56.0	-23.0
2.536	12.5	20.5	33.0	56.0	-23.0

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.155	30.3	20.4	50.7	55.7	-5.0
0.164	29.8	20.4	50.2	55.3	-5.1
0.174	28.2	20.3	48.5	54.8	-6.2
0.189	26.3	20.3	46.6	54.1	-7.4
0.206	25.5	20.4	45.9	53.4	-7.5
0.215	24.4	20.4	44.8	53.0	-8.3
0.221	22.5	20.4	42.9	52.8	-9.9
0.227	22.2	20.4	42.6	52.6	-10.0
0.243	21.1	20.3	41.4	52.0	-10.5
0.254	20.2	20.3	40.5	51.6	-11.1
1.896	14.4	20.5	34.9	46.0	-11.1
0.272	19.3	20.3	39.6	51.0	-11.4
2.304	13.8	20.5	34.3	46.0	-11.7
0.380	16.2	20.3	36.5	48.3	-11.8
0.289	17.9	20.3	38.2	50.5	-12.3
3.800	13.1	20.6	33.7	46.0	-12.3
4.176	13.0	20.6	33.6	46.0	-12.4
1.080	13.0	20.4	33.4	46.0	-12.6
5.000	12.3	20.7	33.0	46.0	-13.0
2.536	12.5	20.5	33.0	46.0	-13.0



AC POWERLINE CONDUCTED EMISSIONS

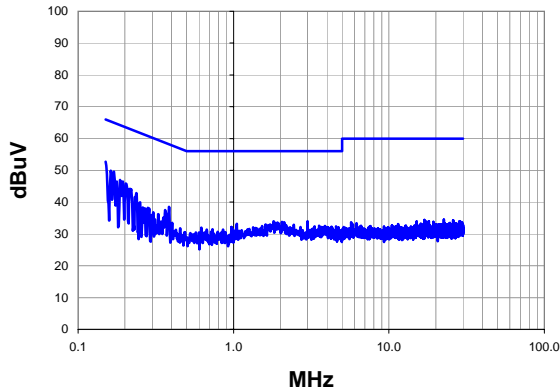
PSA-ESCI 2012.05.07
PSA-ESCI Version 2011.12.21

Work Order:	PLNT0005	Date:	07/06/12	<i>Carl Engholm</i>
Project:	None	Temperature:	24.1 °C	
Job Site:	EV07	Humidity:	45% RH	
Serial Number:	USB Dongle 02	Barometric Pres.:	1017.8 mbar	
Tested by: Carl Engholm				
EUT:	.Audio995USB-02, FCC ID: AL8-995USB02			
Configuration:	5			
Customer:	Plantronics			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting mid channel, 100% duty cycle			
Deviations:	None			
Comments:	None			

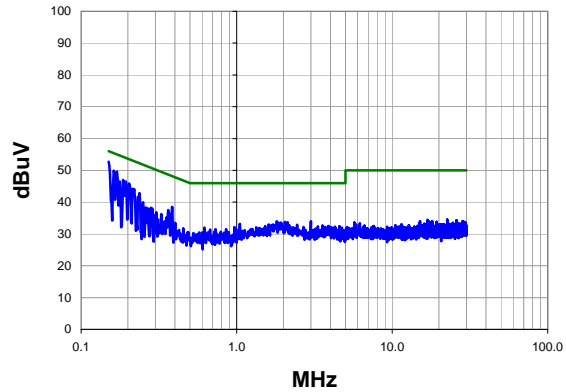
Test Specifications	Test Method
FCC 15.207:2012	ANSI C63.10:2009

Run #	5	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	32.2	20.5	52.7	66.0	-13.3
0.170	29.2	20.3	49.5	64.9	-15.4
0.162	29.5	20.4	49.9	65.4	-15.5
0.186	26.6	20.3	46.9	64.2	-17.3
0.194	26.1	20.4	46.5	63.9	-17.4
0.203	25.5	20.4	45.9	63.5	-17.6
0.177	26.1	20.3	46.4	64.6	-18.2
0.215	23.8	20.4	44.2	63.0	-18.9
0.237	22.5	20.3	42.8	62.2	-19.4
0.385	18.2	20.3	38.5	58.2	-19.7
0.363	17.2	20.3	37.5	58.7	-21.2
0.250	19.6	20.3	39.9	61.7	-21.8
3.000	13.5	20.5	34.0	56.0	-22.0
1.808	13.5	20.5	34.0	56.0	-22.0
2.048	13.3	20.5	33.8	56.0	-22.2
1.920	13.1	20.5	33.6	56.0	-22.4
0.281	17.9	20.3	38.2	60.8	-22.6
1.048	12.8	20.4	33.2	56.0	-22.8
1.608	12.6	20.4	33.0	56.0	-23.0
0.261	18.0	20.3	38.3	61.4	-23.1

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	32.2	20.5	52.7	56.0	-3.3
0.170	29.2	20.3	49.5	54.9	-5.4
0.162	29.5	20.4	49.9	55.4	-5.5
0.186	26.6	20.3	46.9	54.2	-7.3
0.194	26.1	20.4	46.5	53.9	-7.4
0.203	25.5	20.4	45.9	53.5	-7.6
0.177	26.1	20.3	46.4	54.6	-8.2
0.215	23.8	20.4	44.2	53.0	-8.9
0.237	22.5	20.3	42.8	52.2	-9.4
0.385	18.2	20.3	38.5	48.2	-9.7
0.363	17.2	20.3	37.5	48.7	-11.2
0.250	19.6	20.3	39.9	51.7	-11.8
3.000	13.5	20.5	34.0	46.0	-12.0
1.808	13.5	20.5	34.0	46.0	-12.0
2.048	13.3	20.5	33.8	46.0	-12.2
1.920	13.1	20.5	33.6	46.0	-12.4
0.281	17.9	20.3	38.2	50.8	-12.6
1.048	12.8	20.4	33.2	46.0	-12.8
1.608	12.6	20.4	33.0	46.0	-13.0
0.261	18.0	20.3	38.3	51.4	-13.1



AC POWERLINE CONDUCTED EMISSIONS

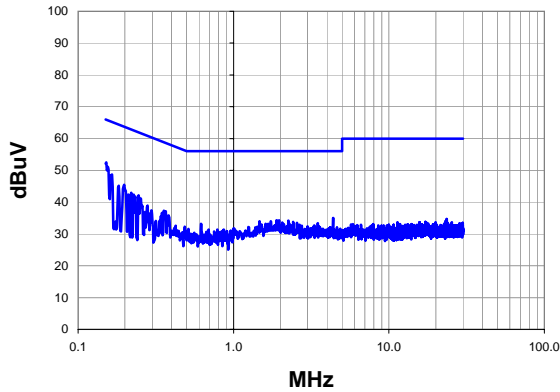
PSA-ESCI 2012.05.07
PSA-ESCI Version 2011.12.21

Work Order:	PLNT0005	Date:	07/06/12	<i>Carl Engholm</i>
Project:	None	Temperature:	24.1 °C	
Job Site:	EV07	Humidity:	45% RH	
Serial Number:	USB Dongle 02	Barometric Pres.:	1017.8 mbar	
EUT:	.Audio995USB-02, FCC ID: AL8-995USB02			
Configuration:	5			
Customer:	Plantronics			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting mid channel, 100% duty cycle			
Deviations:	None			
Comments:	None			

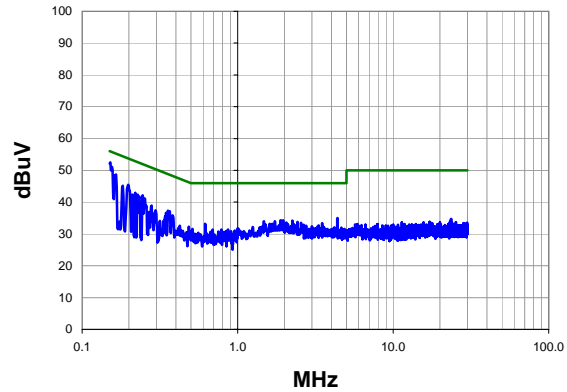
Test Specifications	Test Method
FCC 15.207:2012	ANSI C63.10:2009

Run #	6	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	32.1	20.5	52.6	65.9	-13.4
0.165	28.3	20.4	48.7	65.2	-16.5
0.198	25.1	20.4	45.5	63.7	-18.3
0.182	24.8	20.3	45.1	64.4	-19.2
0.245	21.8	20.3	42.1	61.9	-19.8
0.220	22.6	20.4	43.0	62.8	-19.9
0.228	22.0	20.4	42.4	62.5	-20.2
0.254	20.8	20.3	41.1	61.6	-20.5
0.233	21.4	20.4	41.8	62.3	-20.6
0.210	22.0	20.4	42.4	63.2	-20.9
4.376	14.4	20.7	35.1	56.0	-20.9
0.356	17.0	20.3	37.3	58.8	-21.5
1.960	13.8	20.5	34.3	56.0	-21.7
1.896	13.8	20.5	34.3	56.0	-21.7
2.248	13.7	20.5	34.2	56.0	-21.8
0.279	18.6	20.3	38.9	60.8	-21.9
1.472	13.6	20.4	34.0	56.0	-22.0
2.424	13.3	20.5	33.8	56.0	-22.2
2.056	13.1	20.5	33.6	56.0	-22.4
0.381	15.5	20.3	35.8	58.3	-22.5

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	32.1	20.5	52.6	55.9	-3.4
0.165	28.3	20.4	48.7	55.2	-6.5
0.198	25.1	20.4	45.5	53.7	-8.3
0.182	24.8	20.3	45.1	54.4	-9.2
0.245	21.8	20.3	42.1	51.9	-9.8
0.220	22.6	20.4	43.0	52.8	-9.9
0.228	22.0	20.4	42.4	52.5	-10.2
0.254	20.8	20.3	41.1	51.6	-10.5
0.233	21.4	20.4	41.8	52.3	-10.6
0.210	22.0	20.4	42.4	53.2	-10.9
4.376	14.4	20.7	35.1	46.0	-10.9
0.356	17.0	20.3	37.3	48.8	-11.5
1.960	13.8	20.5	34.3	46.0	-11.7
1.896	13.8	20.5	34.3	46.0	-11.7
2.248	13.7	20.5	34.2	46.0	-11.8
0.279	18.6	20.3	38.9	50.8	-11.9
1.472	13.6	20.4	34.0	46.0	-12.0
2.424	13.3	20.5	33.8	46.0	-12.2
2.056	13.1	20.5	33.6	46.0	-12.4
0.381	15.5	20.3	35.8	48.3	-12.5



AC POWERLINE CONDUCTED EMISSIONS

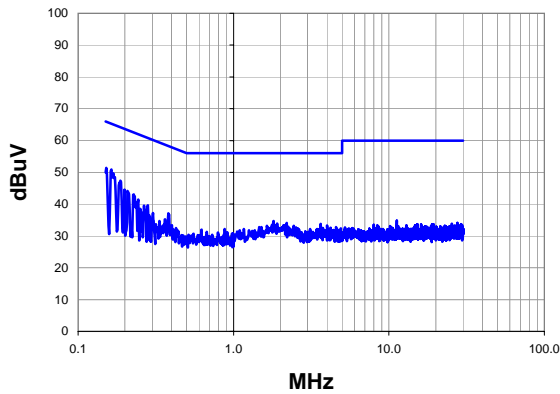
PSA-ESCI 2012.05.07
PSA-ESCI Version 2011.12.21

Work Order:	PLNT0005	Date:	07/06/12	<i>Carl Engholm</i>
Project:	None	Temperature:	24.1 °C	
Job Site:	EV07	Humidity:	45% RH	
Serial Number:	USB Dongle 02	Barometric Pres.:	1017.8 mbar	
EUT:	.Audio995USB-02, FCC ID: AL8-995USB02			
Configuration:	5			
Customer:	Plantronics			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting high channel, 100% duty cycle			
Deviations:	None			
Comments:	None			

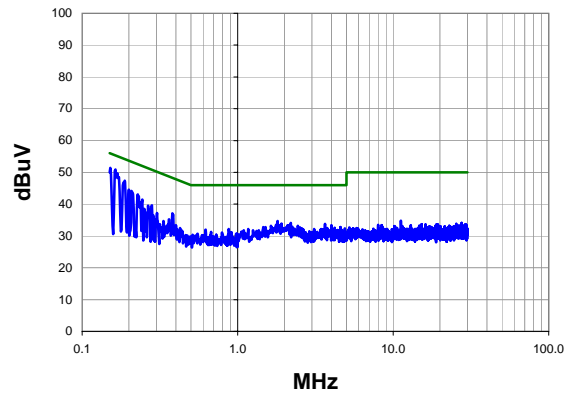
Test Specifications	Test Method
FCC 15.207:2012	ANSI C63.10:2009

Run #	7	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.164	30.5	20.4	50.9	65.3	-14.4
0.152	31.0	20.5	51.5	65.9	-14.5
0.187	27.0	20.3	47.3	64.2	-16.8
0.199	24.2	20.4	44.6	63.6	-19.1
0.208	23.8	20.4	44.2	63.3	-19.1
0.228	22.7	20.4	43.1	62.5	-19.5
0.243	21.1	20.3	41.4	62.0	-20.5
0.381	16.8	20.3	37.1	58.3	-21.2
0.281	19.3	20.3	39.6	60.8	-21.2
1.808	14.3	20.5	34.8	56.0	-21.2
0.266	19.2	20.3	39.5	61.3	-21.7
2.200	13.6	20.5	34.1	56.0	-21.9
1.912	13.4	20.5	33.9	56.0	-22.1
3.640	13.2	20.6	33.8	56.0	-22.2
4.008	12.7	20.6	33.3	56.0	-22.7
2.440	12.7	20.5	33.2	56.0	-22.8
0.303	16.9	20.3	37.2	60.2	-23.0
1.512	12.4	20.4	32.8	56.0	-23.2
1.464	12.4	20.4	32.8	56.0	-23.2
4.576	12.1	20.7	32.8	56.0	-23.2

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.164	30.5	20.4	50.9	55.3	-4.4
0.152	31.0	20.5	51.5	55.9	-4.5
0.187	27.0	20.3	47.3	54.2	-6.8
0.199	24.2	20.4	44.6	53.6	-9.1
0.208	23.8	20.4	44.2	53.3	-9.1
0.228	22.7	20.4	43.1	52.5	-9.5
0.243	21.1	20.3	41.4	52.0	-10.5
0.381	16.8	20.3	37.1	48.3	-11.2
0.281	19.3	20.3	39.6	50.8	-11.2
1.808	14.3	20.5	34.8	46.0	-11.2
0.266	19.2	20.3	39.5	51.3	-11.7
2.200	13.6	20.5	34.1	46.0	-11.9
1.912	13.4	20.5	33.9	46.0	-12.1
3.640	13.2	20.6	33.8	46.0	-12.2
4.008	12.7	20.6	33.3	46.0	-12.7
2.440	12.7	20.5	33.2	46.0	-12.8
0.303	16.9	20.3	37.2	50.2	-13.0
1.512	12.4	20.4	32.8	46.0	-13.2
1.464	12.4	20.4	32.8	46.0	-13.2
4.576	12.1	20.7	32.8	46.0	-13.2



AC POWERLINE CONDUCTED EMISSIONS

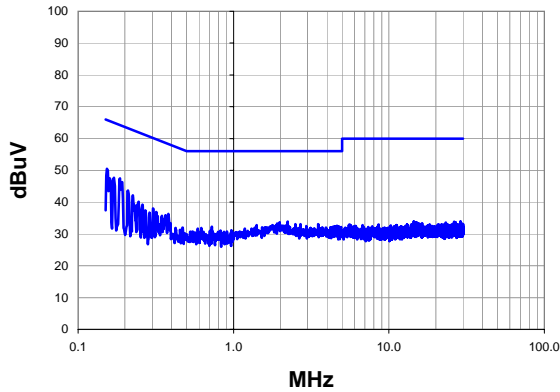
PSA-ESCI 2012.05.07
PSA-ESCI Version 2011.12.21

Work Order:	PLNT0005	Date:	07/06/12	<i>Carl Engholm</i>
Project:	None	Temperature:	24.1 °C	
Job Site:	EV07	Humidity:	45% RH	
Serial Number:	USB Dongle 02	Barometric Pres.:	1017.8 mbar	
Tested by: Carl Engholm				
EUT:	.Audio995USB-02, FCC ID: AL8-995USB02			
Configuration:	5			
Customer:	Plantronics			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting high channel, 100% duty cycle			
Deviations:	None			
Comments:	None			

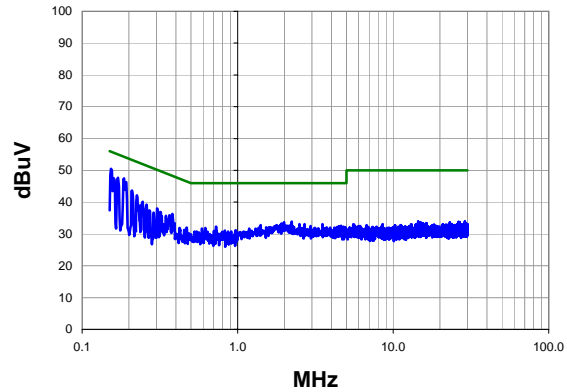
Test Specifications	Test Method
FCC 15.207:2012	ANSI C63.10:2009

Run #	8	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.153	30.1	20.4	50.5	65.8	-15.3
0.186	27.1	20.3	47.4	64.2	-16.8
0.170	27.3	20.3	47.6	64.9	-17.3
0.160	27.1	20.4	47.5	65.5	-18.0
0.210	23.3	20.4	43.7	63.2	-19.6
0.225	21.8	20.4	42.2	62.6	-20.5
0.245	19.8	20.3	40.1	61.9	-21.8
0.381	16.0	20.3	36.3	58.3	-22.0
2.232	13.4	20.5	33.9	56.0	-22.1
0.303	17.7	20.3	38.0	60.2	-22.2
0.259	18.9	20.3	39.2	61.5	-22.2
1.984	13.2	20.5	33.7	56.0	-22.3
0.364	15.6	20.3	35.9	58.6	-22.7
0.318	16.6	20.3	36.9	59.8	-22.9
2.696	12.6	20.5	33.1	56.0	-22.9
2.496	12.6	20.5	33.1	56.0	-22.9
3.504	12.5	20.6	33.1	56.0	-22.9
1.408	12.4	20.4	32.8	56.0	-23.2
0.346	15.4	20.3	35.7	59.1	-23.4
4.624	11.9	20.7	32.6	56.0	-23.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.153	30.1	20.4	50.5	55.8	-5.3
0.186	27.1	20.3	47.4	54.2	-6.8
0.170	27.3	20.3	47.6	54.9	-7.3
0.160	27.1	20.4	47.5	55.5	-8.0
0.210	23.3	20.4	43.7	53.2	-9.6
0.225	21.8	20.4	42.2	52.6	-10.5
0.245	19.8	20.3	40.1	51.9	-11.8
0.381	16.0	20.3	36.3	48.3	-12.0
2.232	13.4	20.5	33.9	46.0	-12.1
0.303	17.7	20.3	38.0	50.2	-12.2
0.259	18.9	20.3	39.2	51.5	-12.2
1.984	13.2	20.5	33.7	46.0	-12.3
0.364	15.6	20.3	35.9	48.6	-12.7
0.318	16.6	20.3	36.9	49.8	-12.9
2.696	12.6	20.5	33.1	46.0	-12.9
2.496	12.6	20.5	33.1	46.0	-12.9
3.504	12.5	20.6	33.1	46.0	-12.9
1.408	12.4	20.4	32.8	46.0	-13.2
0.346	15.4	20.3	35.7	49.1	-13.4
4.624	11.9	20.7	32.6	46.0	-13.4