

Plantronics

Dongle Audio 995 USB

Report No. PLNT0002

Report Prepared By



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

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EMC Test Report

Certificate of Test
Last Date of Test: February 05, 2009
Plantronics
Model: Dongle - Audio 995 USB

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Spurious Radiated Emissions	FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074	Pass
Occupied Bandwidth	FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074	Pass
Output Power	FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074	Pass
Band Edge Compliance	FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074	Pass
Spurious Conducted Emissions	FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074	Pass
Power Spectral Density	FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074	Pass
AC Powerline Conducted Emissions	FCC 15.207: 2009	ANSI C63.4:2003 KDB No. 558074	Pass

Modifications made to the product

See the Modifications section of this report

Test Facility

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

Northwest EMC, Inc.
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).

Approved By:



Don Facteau, IS Manager



NVLAP Lab Code: 200630-0

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

Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test.

Revision Number	Description	Date	Page Number
00	None		

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



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



NVLAP LAB CODE 200629-0
 NVLAP LAB CODE 200630-0
 NVLAP LAB CODE 200676-0
 NVLAP LAB CODE 200761-0

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



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



NEMKO: Assessed and accredited by NEMKO (Norwegian testing and certification body) for European emissions and immunity testing. As a result of NEMKO's laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification (Authorization No. ELA 119).



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



VCCI: Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. (*Registration Numbers. - Hillsboro: C-1071, R-1025, C-2687, T-289, and R-2318, Irvine: R-1943, C-2766, and T-298, Sultan: R-871, C-1784, and T-294.*)



BSMI: Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement (US0017). License No.SL2-IN-E-1017.



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



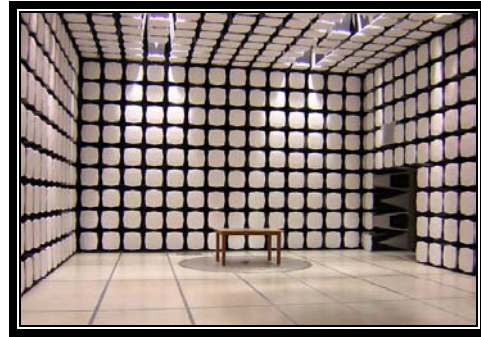
KCC: Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157*)



SCOPE

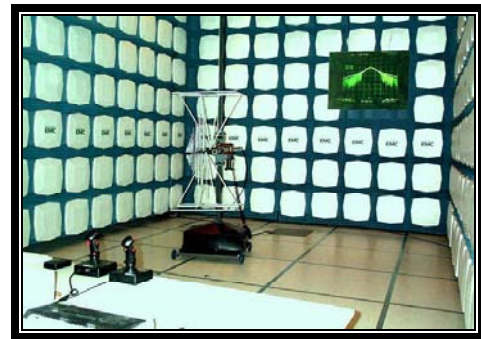
For details on the Scopes of our Accreditations, please visit:

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



**California – Orange County Facility
Labs OC01 – OC13**

41 Tesla Ave. Irvine, CA 92618
(888) 364-2378 Fax: (503) 844-3826



**Oregon – Evergreen Facility
Labs EV01 – EV11**

22975 NW Evergreen Pkwy. Suite 400 Hillsboro, OR 97124
(503) 844-4066 Fax: (503) 844-3826



**Washington – Sultan Facility
Labs SU01 – SU07**

14128 339th Ave. SE Sultan, WA 98294
(888) 364-2378

Party Requesting the Test

Company Name:	Plantronics
Address:	345 Encinal Street
City, State, Zip:	Santa Cruz, CA 95060
Test Requested By:	Alvin Ilarina
Model:	Dongle - Audio 995 USB
First Date of Test:	January 26, 2009
Last Date of Test:	February 5, 2009
Receipt Date of Samples:	January 22, 2009
Equipment Design Stage:	Prototype
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 (2405 - 2477 MHz).

Testing Objective:

Seeking TCB certification under 15.247.

EUT Photo

CONFIGURATION 3 PLNT0002**Software/Firmware Running during test**

Description	Version
AWAdebug	1.48.1

EUT

Description	Manufacturer	Model/Part Number	Serial Number
USB Dongle - Radiated	Plantronics	Audio 995 USB	272

Remote Equipment Outside of Test Setup Boundary

Description	Manufacturer	Model/Part Number	Serial Number
Control PC	Dell	Inspiron 6000	DZ88H81

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB Cable	Yes	4.5m	No	USB Dongle - Radiated	Control PC

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

CONFIGURATION 6 PLNT0002**Software/Firmware Running during test**

Description	Version
AWAdebug	1.48.1

EUT

Description	Manufacturer	Model/Part Number	Serial Number
USB Dongle - Direct Connect	Plantronics	Audio 995 USB	55

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Host Computer	Dell	Dimension 1100	H163W81

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB Cable	Yes	4.5m	No	USB Dongle - Radiated	Host Computer
AC Power	No	1.8m	No	Host Computer	AC Mains

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

CONFIGURATION 7 PLNT0002**Software/Firmware Running during test**

Description	Version
AWAdebug	1.48.1

EUT

Description	Manufacturer	Model/Part Number	Serial Number
USB Dongle - Radiated	Plantronics	Audio 995 USB	272

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Control PC	Dell	Inspiron 6000	DZ88H81
Monitor	IBM	6558-03N	5570151
Mouse	Dell	M-UVDEL1	HCJ43417330
Power Adapter	Dell	DA90PS0-00	CN-0XD757-48661-6BI-MCKA

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB Cable	Yes	4.5m	No	USB Dongle - Radiated	Control PC
AC Power	No	1.8m	No	Monitor	AC Mains
USB	PA	1.8m	PA	Control PC	Mouse
Power	PA	1.8m	PA	Control PC	Power Adapter
AC Power	No	1.8m	No	Power Adapter	AC Mains
Video	Yes	1.8m	Yes	Control PC	Monitor

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

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	1/26/2009	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.
2	1/29/2009	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.
3	1/29/2009	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.
4	1/29/2009	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	1/29/2009	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	1/29/2009	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.
7	2/5/2009	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.

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

Tx, Antenna 1 (Diversity Select Low)
Tx, Antenna 2 (Diversity Select High)

MODE USED FOR FINAL DATA

Tx, Antenna 1 (Diversity Select Low)
Tx, Antenna 2 (Diversity Select High)

POWER SETTINGS INVESTIGATED

USB

POWER SETTINGS USED FOR FINAL DATA

USB

FREQUENCY RANGE INVESTIGATED

Start Frequency	30MHz	Stop Frequency	26.5GHz
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SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAT	12/12/2008	13
EV01 Cables		18-26GHz Standard Gain Horn Cable	EVD	12/2/2008	13
EV01 Cables		Standard Gain Horns Cables	EVF	11/13/2008	13
EV01 Cables		Double Ridge Horn Cables	EVB	5/19/2008	13
EV01 Cables		Bilog Cables	EVA	5/19/2008	13
High Pass Filter	Micro-Tronics	HPM50111	HFO	5/21/2008	13
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	12/2/2008	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	6/30/2008	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	6/30/2008	13
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	5/19/2008	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	5/19/2008	13
Antenna, Horn	EMCO	3160-09	AHG	NCR	0
Antenna, Horn	ETS	3160-08	AHV	NCR	0
Antenna, Horn	ETS	3160-07	AHU	NCR	0
Antenna, Horn	EMCO	3115	AHC	8/12/2008	24
Antenna, Biconilog	EMCO	3141	AXE	1/15/2008	24

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

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is 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 C63.4:2003). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

EUT: Dongle - Audio 995 USB	Work Order: PLNT0002
Serial Number: 272	Date: 01/26/09
Customer: Plantronics	Temperature: 20.75
Attendees: None	Humidity: 25%
Project: None	Barometric Pres.: 30.22
Tested by: Jennifer Herrett	Power: USB
	Job Site: EV01

TEST SPECIFICATIONS	
FCC 15.247 (DTS):2009	Test Method ANSI C63.4:2003, KDB No. 558074

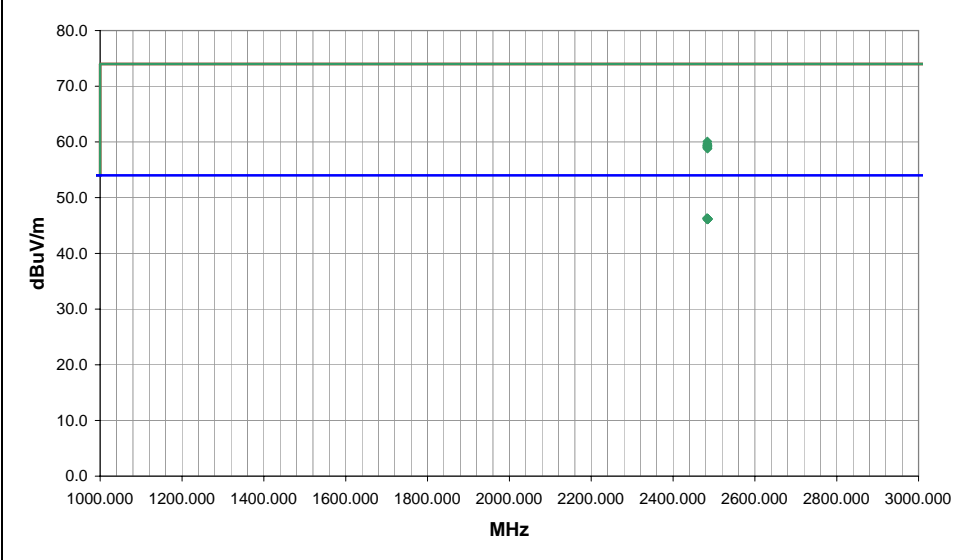
TEST PARAMETERS	
Antenna Height(s) (m)	1 - 4
Test Distance (m)	3

COMMENTS
None

EUT OPERATING MODES
Tx, High Channel, See comments for Antenna (Diversity Select)

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	4	 Signature
Configuration #	3	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.092	24.1	2.2	36.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.3	54.0	-7.7	Diversity Select High, EUT on side
2483.331	24.1	2.2	205.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.3	54.0	-7.7	Diversity Select High, EUT vertical
2484.507	24.0	2.2	35.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.2	54.0	-7.8	Diversity Select High, EUT horizontal
2484.546	24.0	2.2	324.0	2.4	3.0	20.0	H-Horn	AV	0.0	46.2	54.0	-7.8	Diversity Select High, EUT horizontal
2484.567	24.0	2.2	343.0	2.4	3.0	20.0	H-Horn	AV	0.0	46.2	54.0	-7.8	Diversity Select High, EUT on side
2484.677	24.0	2.2	240.0	2.9	3.0	20.0	V-Horn	AV	0.0	46.2	54.0	-7.8	Diversity Select Low, EUT vertical
2484.679	24.0	2.2	134.0	1.2	3.0	20.0	V-Horn	AV	0.0	46.2	54.0	-7.8	Diversity Select Low, EUT horizontal
2484.787	24.0	2.2	225.0	2.4	3.0	20.0	H-Horn	AV	0.0	46.2	54.0	-7.8	Diversity Select High, EUT vertical
2484.091	23.9	2.2	350.0	2.4	3.0	20.0	H-Horn	AV	0.0	46.1	54.0	-7.9	Diversity Select Low, EUT horizontal
2484.169	23.9	2.2	281.0	2.4	3.0	20.0	H-Horn	AV	0.0	46.1	54.0	-7.9	Diversity Select Low, EUT vertical
2484.420	23.9	2.2	101.0	2.4	3.0	20.0	H-Horn	AV	0.0	46.1	54.0	-7.9	Diversity Select Low, EUT on side
2484.568	23.9	2.2	145.0	2.1	3.0	20.0	V-Horn	AV	0.0	46.1	54.0	-7.9	Diversity Select Low, EUT on side
2483.867	37.9	2.2	36.0	1.0	3.0	20.0	V-Horn	PK	0.0	60.1	74.0	-13.9	Diversity Select High, EUT on side
2484.053	37.5	2.2	101.0	2.4	3.0	20.0	H-Horn	PK	0.0	59.7	74.0	-14.3	Diversity Select Low, EUT on side
2483.875	37.3	2.2	225.0	2.4	3.0	20.0	H-Horn	PK	0.0	59.5	74.0	-14.5	Diversity Select High, EUT vertical
2483.678	37.2	2.2	324.0	2.4	3.0	20.0	H-Horn	PK	0.0	59.4	74.0	-14.6	Diversity Select High, EUT horizontal
2484.322	37.2	2.2	145.0	2.1	3.0	20.0	V-Horn	PK	0.0	59.4	74.0	-14.6	Diversity Select Low, EUT on side
2483.777	37.1	2.2	134.0	1.2	3.0	20.0	V-Horn	PK	0.0	59.3	74.0	-14.7	Diversity Select Low, EUT horizontal
2484.060	37.1	2.2	343.0	2.4	3.0	20.0	H-Horn	PK	0.0	59.3	74.0	-14.7	Diversity Select High, EUT on side
2484.082	37.0	2.2	35.0	1.0	3.0	20.0	V-Horn	PK	0.0	59.2	74.0	-14.8	Diversity Select High, EUT horizontal

EUT: Dongle - Audio 995 USB	Work Order: PLNT0002
Serial Number: 272	Date: 01/26/09
Customer: Plantronics	Temperature: 20.75
Attendees: None	Humidity: 25%
Project: None	Barometric Pres.: 30.22
Tested by: Jennifer Herrett	Power: USB
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS
Antenna Height(s) (m) 1 - 4 Test Distance (m) 3

COMMENTS
None

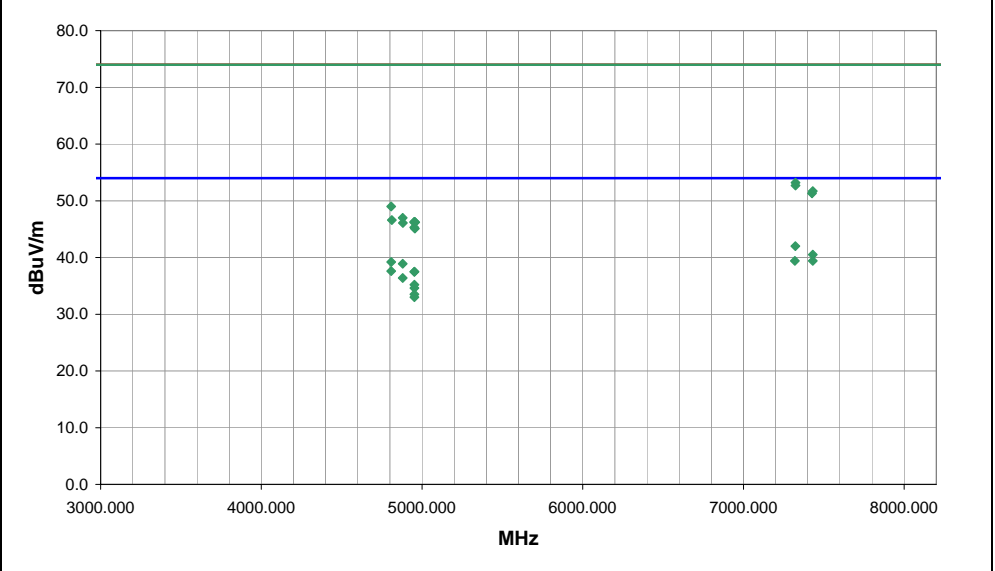
EUT OPERATING MODES
Tx, See comments for channel, Antenna 1 (Diversity Select Low)

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	5
Configuration #	3
Results	Pass

Signature *Jennifer Herrett*



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7322.880	26.4	15.6	19.0	1.0	3.0	0.0	V-Horn	AV	0.0	42.0	54.0	-12.0	Mid channel, EUT vertical
7430.970	24.7	15.8	25.0	1.0	3.0	0.0	V-Horn	AV	0.0	40.5	54.0	-13.5	High channel, EUT vertical
7320.380	23.8	15.6	211.0	3.7	3.0	0.0	H-Horn	AV	0.0	39.4	54.0	-14.6	Mid channel, EUT horizontal
7431.080	23.6	15.8	68.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.4	54.0	-14.6	High channel, EUT horizontal
4807.970	29.7	9.5	334.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.2	54.0	-14.8	Low channel, EUT horizontal
4880.000	29.1	9.8	337.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.9	54.0	-15.1	Mid channel, EUT horizontal
4807.980	28.1	9.5	345.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.6	54.0	-16.4	Low channel, EUT vertical
4951.980	27.4	10.1	342.0	1.3	3.0	0.0	V-Horn	AV	0.0	37.5	54.0	-16.5	Diversity Select Low, EUT vertical
4952.000	27.4	10.1	341.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.5	54.0	-16.5	High channel, EUT horizontal
4879.970	26.6	9.8	225.0	1.0	3.0	0.0	V-Horn	AV	0.0	36.4	54.0	-17.6	Mid channel, EUT vertical
4952.000	25.1	10.1	360.0	2.1	3.0	0.0	V-Horn	AV	0.0	35.2	54.0	-18.8	High channel, EUT on side
4951.920	24.5	10.1	43.0	1.6	3.0	0.0	V-Horn	AV	0.0	34.6	54.0	-19.4	High channel, EUT horizontal
4951.970	23.4	10.1	-1.0	1.7	3.0	0.0	H-Horn	AV	0.0	33.5	54.0	-20.5	High channel, EUT on side
7323.430	37.6	15.6	19.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.2	74.0	-20.8	Mid channel, EUT vertical
4951.880	22.9	10.1	0.0	2.7	3.0	0.0	H-Horn	AV	0.0	33.0	54.0	-21.0	High channel, EUT vertical
7324.170	37.1	15.6	211.0	3.7	3.0	0.0	H-Horn	PK	0.0	52.7	74.0	-21.3	Mid channel, EUT horizontal
7431.470	35.9	15.8	25.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.7	74.0	-22.3	High channel, EUT vertical
7426.380	35.5	15.8	68.0	1.0	3.0	0.0	H-Horn	PK	0.0	51.3	74.0	-22.7	High channel, EUT horizontal
4807.780	39.5	9.5	334.0	1.0	3.0	0.0	H-Horn	PK	0.0	49.0	74.0	-25.0	Low channel, EUT horizontal
4879.770	37.2	9.8	337.0	1.0	3.0	0.0	H-Horn	PK	0.0	47.0	74.0	-27.0	Mid channel, EUT horizontal

SPURIOUS RADIATED EMISSIONS

EUT: Dongle - Audio 995 USB	Work Order: PLNT0002
Serial Number: 272	Date: 01/26/09
Customer: Plantronics	Temperature: 20.75
Attendees: None	Humidity: 25%
Project: None	Barometric Pres.: 30.22
Tested by: Jennifer Herrett	Power: USB
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003, KDB No. 558074

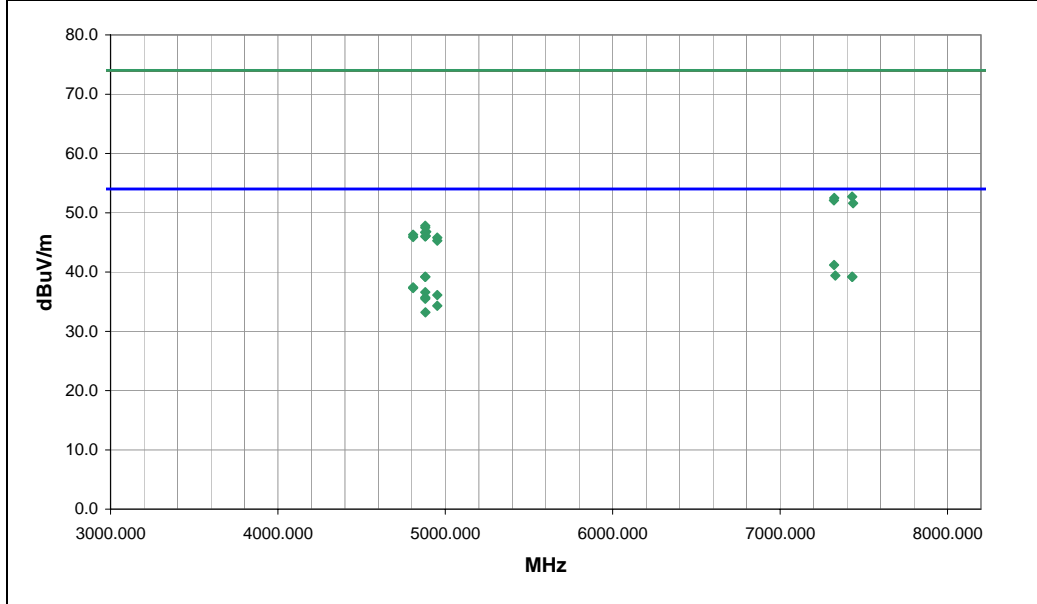
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
None

EUT OPERATING MODES
Tx, See comments for channel, Antenna 2 (Diversity Select High)

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	6	 Signature
Configuration #	3	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7322.950	25.6	15.6	336.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.2	54.0	-12.8	Mid channel, EUT vertical
7329.670	23.8	15.6	216.0	2.5	3.0	0.0	H-Horn	AV	0.0	39.4	54.0	-14.6	Mid channel, EUT horizontal
4879.980	29.4	9.8	337.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.2	54.0	-14.8	Mid channel, EUT horizontal
4880.020	29.4	9.8	36.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.2	54.0	-14.8	Mid channel, EUT on side
7430.820	23.4	15.8	126.0	1.0	3.0	0.0	V-Horn	AV	0.0	39.2	54.0	-14.8	High channel, EUT vertical
7431.270	23.4	15.8	338.0	2.3	3.0	0.0	H-Horn	AV	0.0	39.2	54.0	-14.8	High channel, EUT horizontal
4807.950	27.9	9.5	351.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.4	54.0	-16.6	Low channel, EUT horizontal
4807.950	27.8	9.5	360.0	1.3	3.0	0.0	V-Horn	AV	0.0	37.3	54.0	-16.7	Low channel, EUT vertical
4879.970	26.8	9.8	32.0	1.0	3.0	0.0	V-Horn	AV	0.0	36.6	54.0	-17.4	Mid channel, EUT vertical
4951.970	26.0	10.1	354.0	1.0	3.0	0.0	H-Horn	AV	0.0	36.1	54.0	-17.9	High channel, EUT horizontal
4879.950	25.9	9.8	274.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.7	54.0	-18.3	Mid channel, EUT vertical
4879.950	25.7	9.8	209.0	1.0	3.0	0.0	V-Horn	AV	0.0	35.5	54.0	-18.5	Mid channel, EUT on side
4951.970	24.2	10.1	163.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.3	54.0	-19.7	High channel, EUT vertical
4880.900	23.4	9.8	336.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.2	54.0	-20.8	Mid channel, EUT vertical
7430.250	36.9	15.8	338.0	2.3	3.0	0.0	H-Horn	PK	0.0	52.7	74.0	-21.3	High channel, EUT horizontal
7323.880	36.9	15.6	336.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.5	74.0	-21.5	Mid channel, EUT vertical
7321.480	36.5	15.6	216.0	2.5	3.0	0.0	H-Horn	PK	0.0	52.1	74.0	-21.9	Mid channel, EUT horizontal
7435.870	35.8	15.8	126.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.6	74.0	-22.4	High channel, EUT vertical
4880.200	38.0	9.8	337.0	1.0	3.0	0.0	H-Horn	PK	0.0	47.8	74.0	-26.2	Mid channel, EUT horizontal
4879.750	37.7	9.8	36.0	1.0	3.0	0.0	H-Horn	PK	0.0	47.5	74.0	-26.5	Mid channel, EUT on side

EUT: Dongle - Audio 995 USB	Work Order: PLNT0002
Serial Number: 272	Date: 01/26/09
Customer: Plantronics	Temperature: 20.75
Attendees: None	Humidity: 25%
Project: None	Barometric Pres.: 30.22
Tested by: Jennifer Herrett	Power: USB
	Job Site: EV01

TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2009		ANSI C63.4:2003, KDB No. 558074	

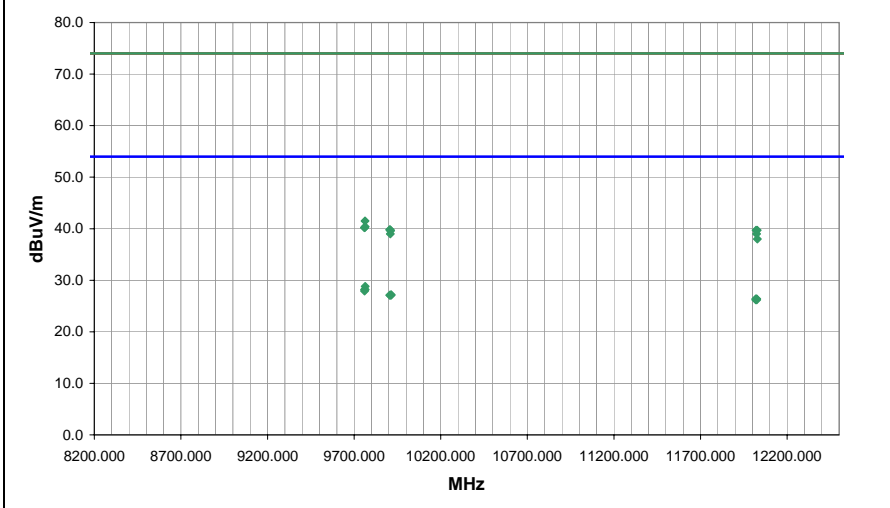
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
None

EUT OPERATING MODES
Tx. See comments for channel and Antenna (Diversity Select)

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	7	<i>Jennifer Herrett</i> Signature
Configuration #	3	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
9764.230	39.6	-10.8	340.0	1.0	3.0	0.0	H-Horn	AV	0.0	28.8	54.0	-25.2	Mid channel, EUT horizontal, Diversity Select High
9759.870	39.0	-10.8	39.0	1.0	3.0	0.0	V-Horn	AV	0.0	28.2	54.0	-25.8	Mid channel, EUT vertical, Diversity Select Low
9764.030	39.0	-10.8	352.0	1.0	3.0	0.0	H-Horn	AV	0.0	28.2	54.0	-25.8	Mid channel, EUT horizontal, Diversity Select Low
9759.980	38.7	-10.8	83.0	1.0	3.0	0.0	V-Horn	AV	0.0	27.9	54.0	-26.1	Mid channel, EUT vertical, Diversity Select High
9913.680	37.9	-10.7	153.0	1.0	3.0	0.0	H-Horn	AV	0.0	27.2	54.0	-26.8	High channel, EUT horizontal, Diversity Select Low
9906.600	37.8	-10.7	198.0	1.0	3.0	0.0	H-Horn	AV	0.0	27.1	54.0	-26.9	High channel, EUT horizontal, Diversity Select High
9906.730	37.8	-10.7	52.0	1.0	3.0	0.0	V-Horn	AV	0.0	27.1	54.0	-26.9	High channel, EUT vertical, Diversity Select High
9913.700	37.8	-10.7	217.0	1.0	3.0	0.0	V-Horn	AV	0.0	27.1	54.0	-26.9	High channel, EUT vertical, Diversity Select Low
12018.650	30.5	-4.1	219.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.4	54.0	-27.6	Low channel, EUT horizontal, Diversity Select Low
12024.180	30.5	-4.1	96.0	1.0	3.0	0.0	V-Horn	AV	0.0	26.4	54.0	-27.6	Low channel, EUT vertical, Diversity Select High
12018.700	30.3	-4.1	360.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.2	54.0	-27.8	Low channel, EUT horizontal, Diversity Select Low
12024.270	30.3	-4.1	311.0	1.0	3.0	0.0	V-Horn	AV	0.0	26.2	54.0	-27.8	Low channel, EUT vertical, Diversity Select Low
9763.280	52.3	-10.8	39.0	1.0	3.0	0.0	V-Horn	PK	0.0	41.5	74.0	-32.5	Mid channel, EUT vertical, Diversity Select Low
9764.230	51.2	-10.8	340.0	1.0	3.0	0.0	H-Horn	PK	0.0	40.4	74.0	-33.6	Mid channel, EUT horizontal, Diversity Select High
9759.850	51.0	-10.8	83.0	1.0	3.0	0.0	V-Horn	PK	0.0	40.2	74.0	-33.8	Mid channel, EUT vertical, Diversity Select High
9759.900	51.0	-10.8	352.0	1.0	3.0	0.0	H-Horn	PK	0.0	40.2	74.0	-33.8	Mid channel, EUT horizontal, Diversity Select Low
9905.370	50.5	-10.7	198.0	1.0	3.0	0.0	H-Horn	PK	0.0	39.8	74.0	-34.2	High channel, EUT horizontal, Diversity Select Low
9908.080	50.5	-10.7	153.0	1.0	3.0	0.0	H-Horn	PK	0.0	39.8	74.0	-34.2	High channel, EUT horizontal, Diversity Select Low
12020.170	43.8	-4.1	219.0	1.0	3.0	0.0	H-Horn	PK	0.0	39.7	74.0	-34.3	Low channel, EUT horizontal, Diversity Select High
12027.420	43.8	-4.1	96.0	1.0	3.0	0.0	V-Horn	PK	0.0	39.7	74.0	-34.3	Low channel, EUT vertical, Diversity Select High

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator	NXA Com	2082-6148-20 DC-18 GHz	AUG	5/19/2008	13
Spectrum Analyzer	Agilent	E4407B	AAU	12/12/2008	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is 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 maximum data rate with the typical modulation.

EMC

Occupied Bandwidth

EUT:	Dongle - Audio 995 USB	Work Order:	PLNT0002
Serial Number:	55	Date:	01/29/09
Customer:	Plantronics	Temperature:	21.7°C
Attendees:	None	Humidity:	26%
Project:	None	Barometric Pres.:	30.71 Inches
Tested by:	Greg Kiemel	Power:	Battery
		Job Site:	EV06

TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2009		ANSI C63.4:2003 KDB No. 558074	

COMMENTS

Output power taken on 'Diversity Select Low' port

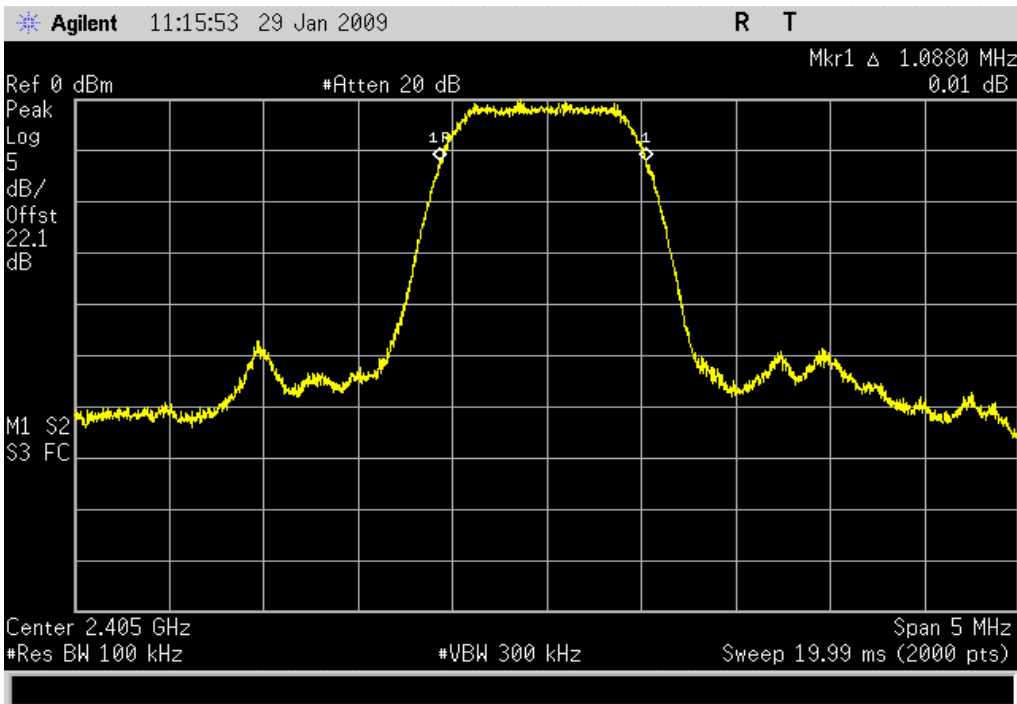
DEVIATIONS FROM TEST STANDARD

No Deviations

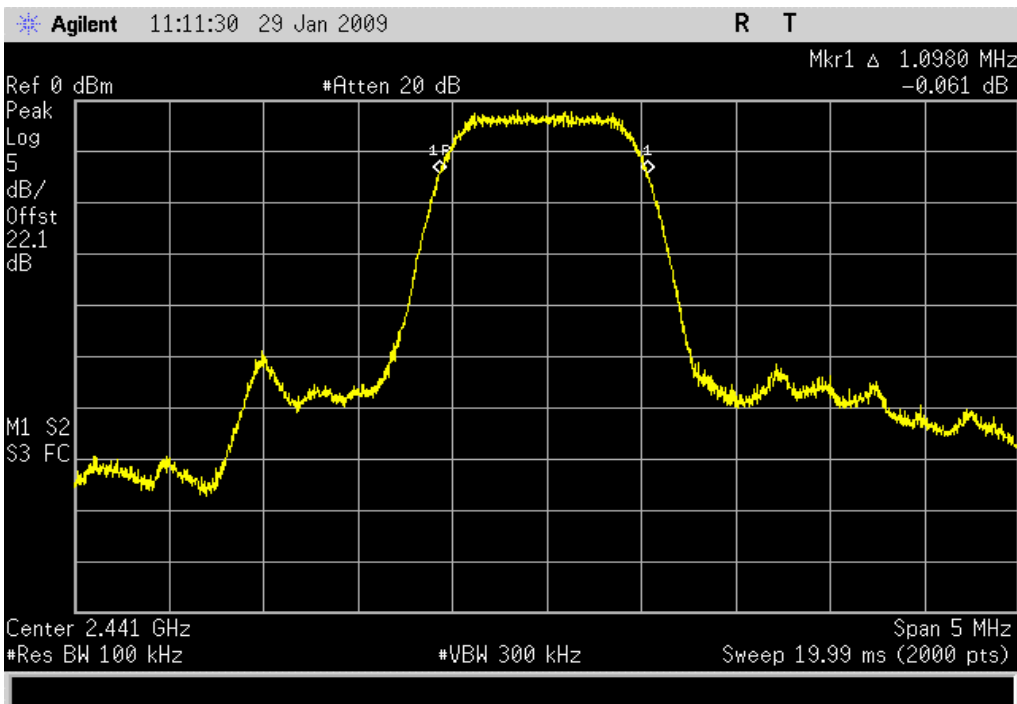
Configuration #	6	Signature <i>GJK</i>
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	Value	Limit	Results
Low Channel - 2405 MHz	1.088 MHz	≥ 500 kHz	PASS
Mid Channel - 2441 MHz	1.098 MHz	≥ 500 kHz	PASS
High Channel - 2477 MHz	1.096 MHz	≥ 500 kHz	PASS

Low Channel - 2405 MHz
Result: PASS **Value:** 1.088 MHz **Limit:** ≥ 500 kHz



Mid Channel - 2441 MHz
Result: PASS **Value:** 1.098 MHz **Limit:** ≥ 500 kHz



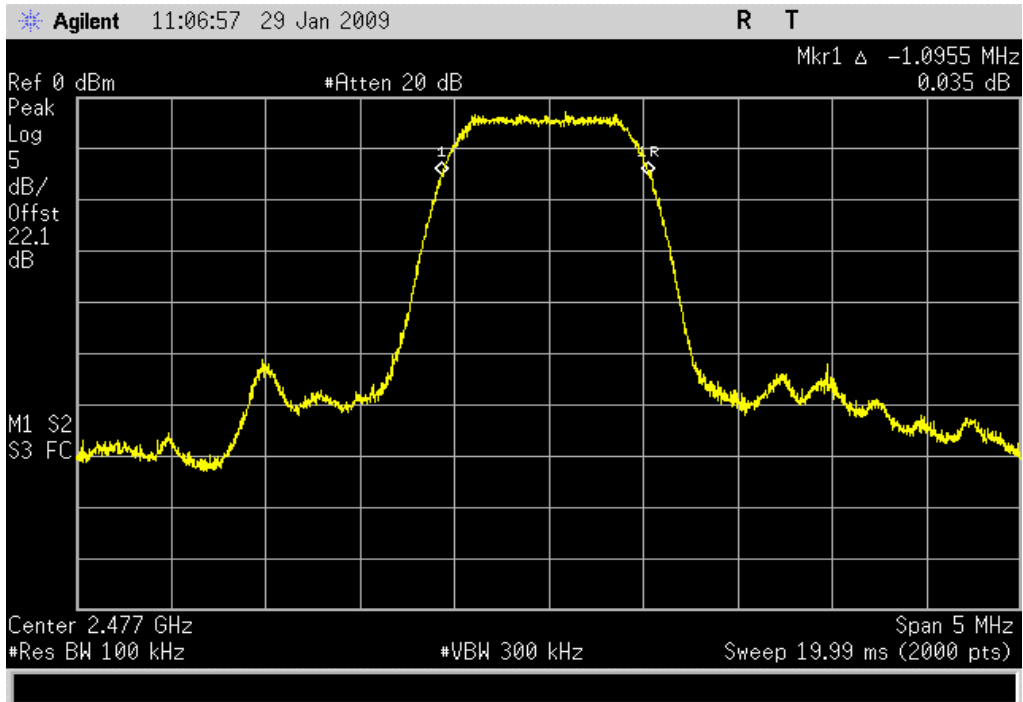
Occupied Bandwidth

High Channel - 2477 MHz

Result: PASS

Value: 1.096 MHz

Limit: ≥ 500 kHz



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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/27/2008	13
Power Sensor	Gigatronics	80701A	SPL	12/10/2008	13
Power Meter	Gigatronics	8651A	SPM	12/10/2008	13
Spectrum Analyzer	Agilent	E4407B	AAU	12/12/2008	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is 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 maximum data rate.

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

EMC

Output Power

EUT: Dongle - Audio 995 USB	Work Order: PLNT0002
Serial Number: 55	Date: 01/29/09
Customer: Plantronics	Temperature: 21.7°C
Attendees: None	Humidity: 26%
Project: None	Barometric Pres.: 30.71 Inches
Tested by: Greg Kiemel	Power: Battery
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074

COMMENTS

Output power taken on 'Diversity Select Low' port

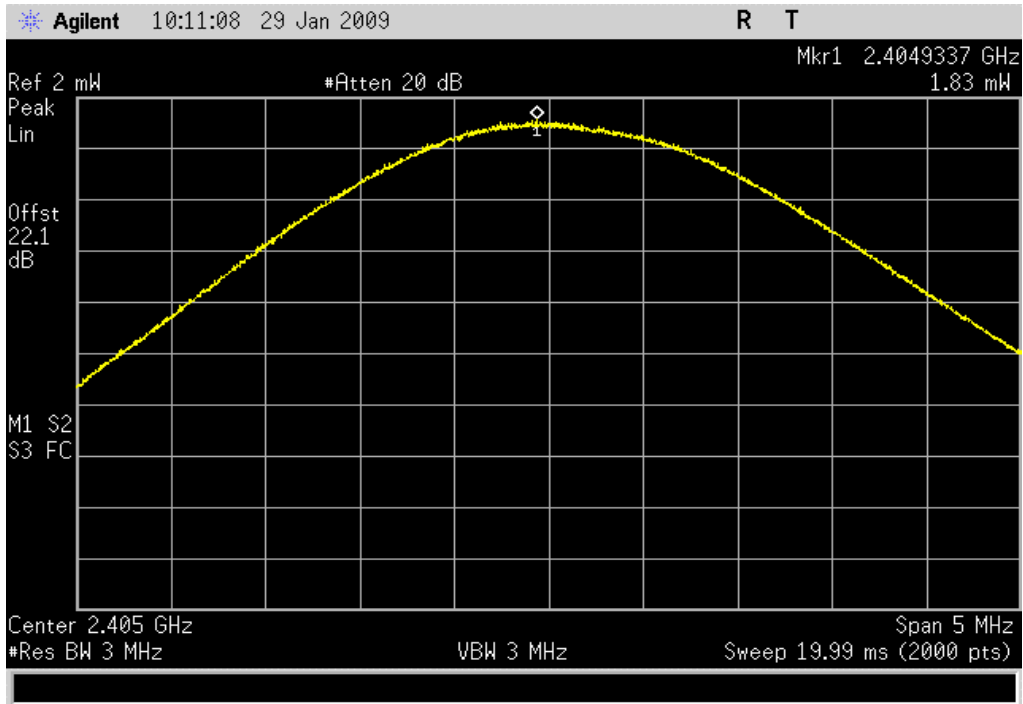
DEVIATIONS FROM TEST STANDARD

No Deviations

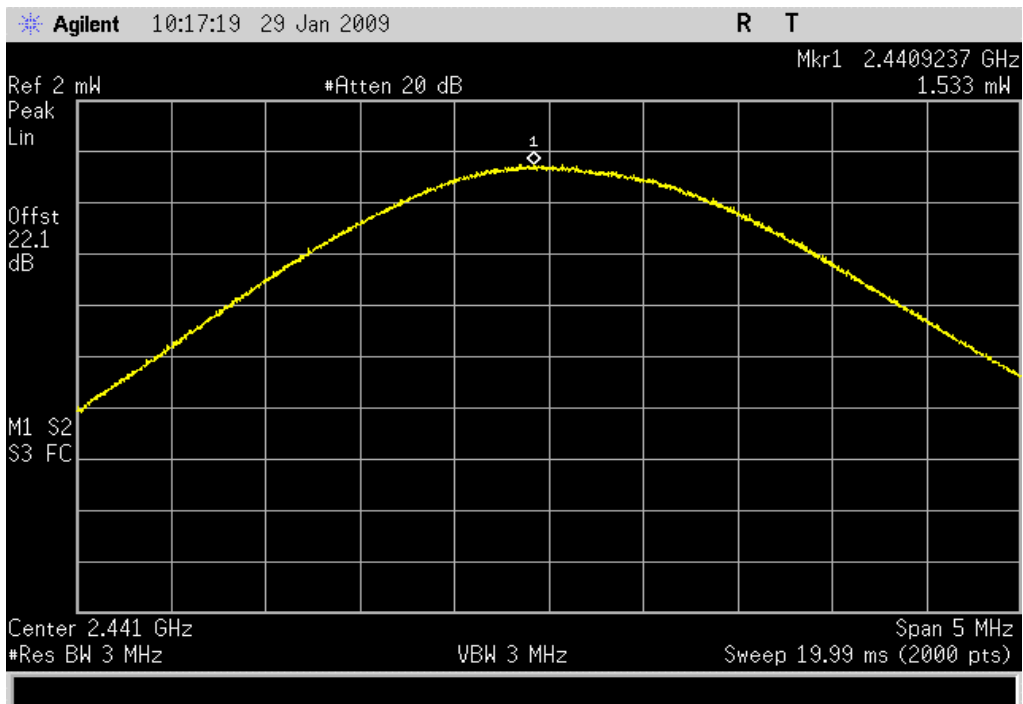
Configuration #	6	Signature 
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	Value	Limit	Results
Low Channel - 2405 MHz	1.83 mW	1 W	PASS
Mid Channel - 2441 MHz	1.53 mW	1 W	PASS
High Channel - 2477 MHz	1.37 mW	1 W	PASS

Low Channel - 2405 MHz
Result: PASS **Value:** 1.83 mW **Limit:** 1 W



Mid Channel - 2441 MHz
Result: PASS **Value:** 1.53 mW **Limit:** 1 W

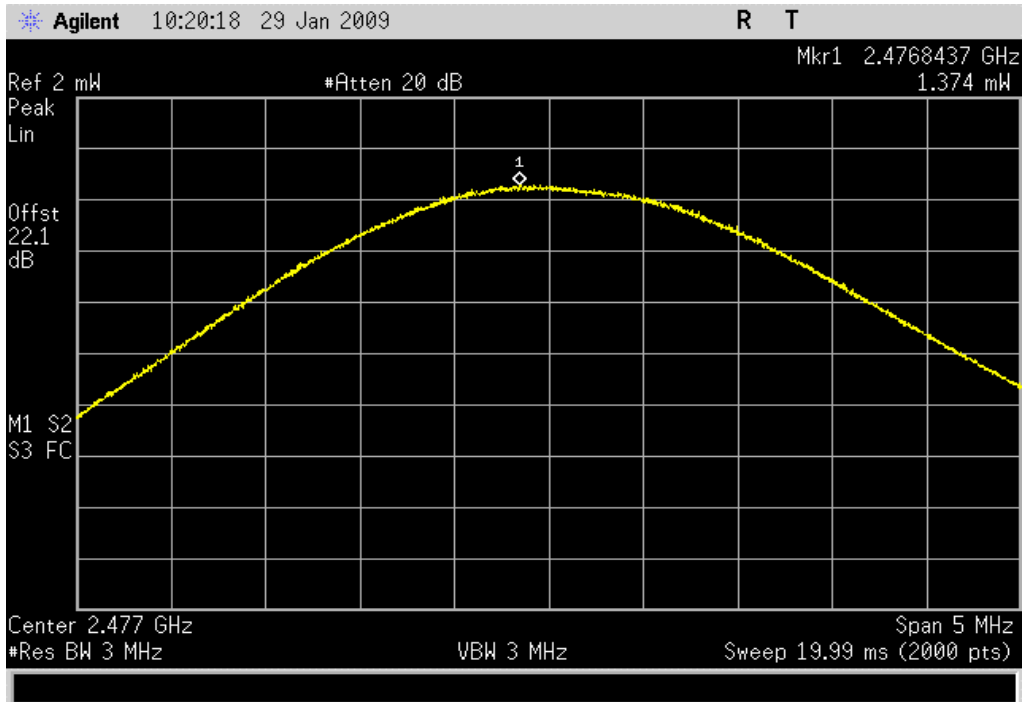


High Channel - 2477 MHz

Result: PASS

Value: 1.37 mW

Limit: 1 W



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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/27/2008	13
Spectrum Analyzer	Agilent	E4407B	AAU	12/12/2008	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is 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 spectrum was scanned across each band edge from at least 10 MHz below the band edge to 10 MHz above the band edge.

EMC


Band Edge Compliance

EUT: Dongle - Audio 995 USB	Work Order: PLNT0002
Serial Number: 55	Date: 01/29/09
Customer: Plantronics	Temperature: 21.7°C
Attendees: None	Humidity: 26%
Project: None	Barometric Pres.: 30.71 Inches
Tested by: Greg Kiemel	Power: Battery
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2009	ANSI C63.4:2003 KDB No. 558074

COMMENTS
 Output power taken on 'Diversity Select Low' port

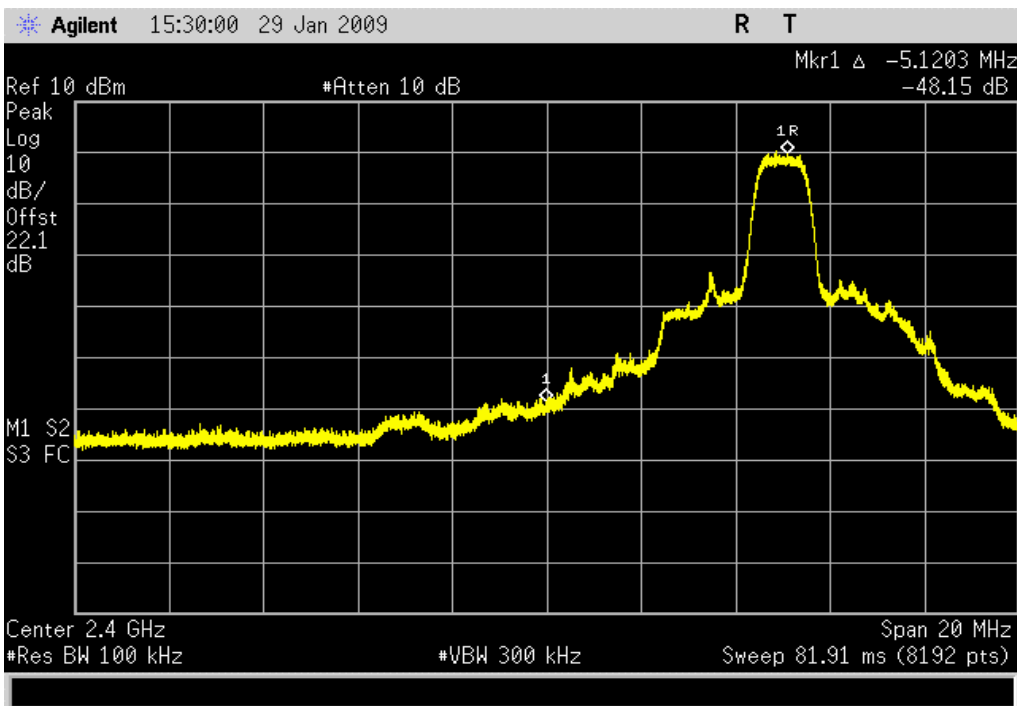
DEVIATIONS FROM TEST STANDARD
 No Deviations

Configuration #	6	Signature 
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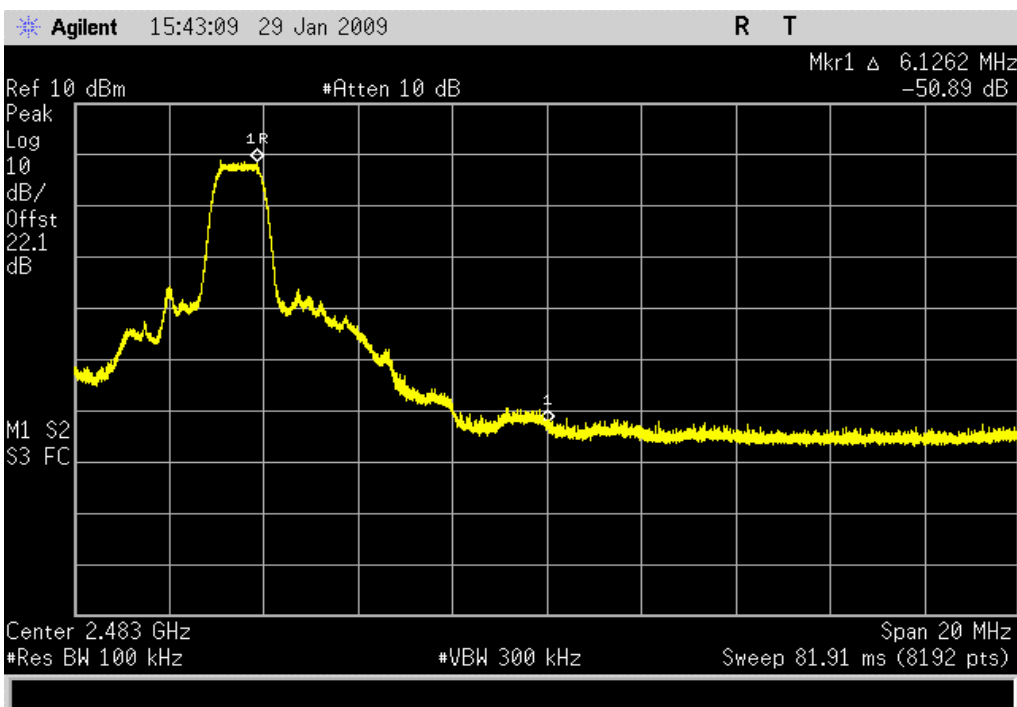
	Value	Limit	Results
Low Channel - 2405 MHz	-48.15 dBc	≤ -20 dBc	PASS
High Channel - 2477 MHz	-50.89 dBc	≤ -20 dBc	PASS

Band Edge Compliance

Low Channel - 2405 MHz
Result: PASS **Value:** -48.15 dBc **Limit:** ≤ -20 dBc



High Channel - 2477 MHz
Result: PASS **Value:** -50.89 dBc **Limit:** ≤ -20 dBc



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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/27/2008	13
Spectrum Analyzer	Agilent	E4407B	AAU	12/12/2008	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is 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 maximum data rate using direct sequence modulation. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

Spurious Conducted Emissions

EMC

EUT:	Dongle - Audio 995 USB	Work Order:	PLNT0002
Serial Number:	55	Date:	01/29/09
Customer:	Plantronics	Temperature:	21.7°C
Attendees:	None	Humidity:	26%
Project:	None	Barometric Pres.:	30.71 Inches
Tested by:	Greg Kiemel	Power:	Battery
		Job Site:	EV06

TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2009		ANSI C63.4:2003 KDB No. 558074	

COMMENTS

Output power taken on 'Diversity Select Low' port

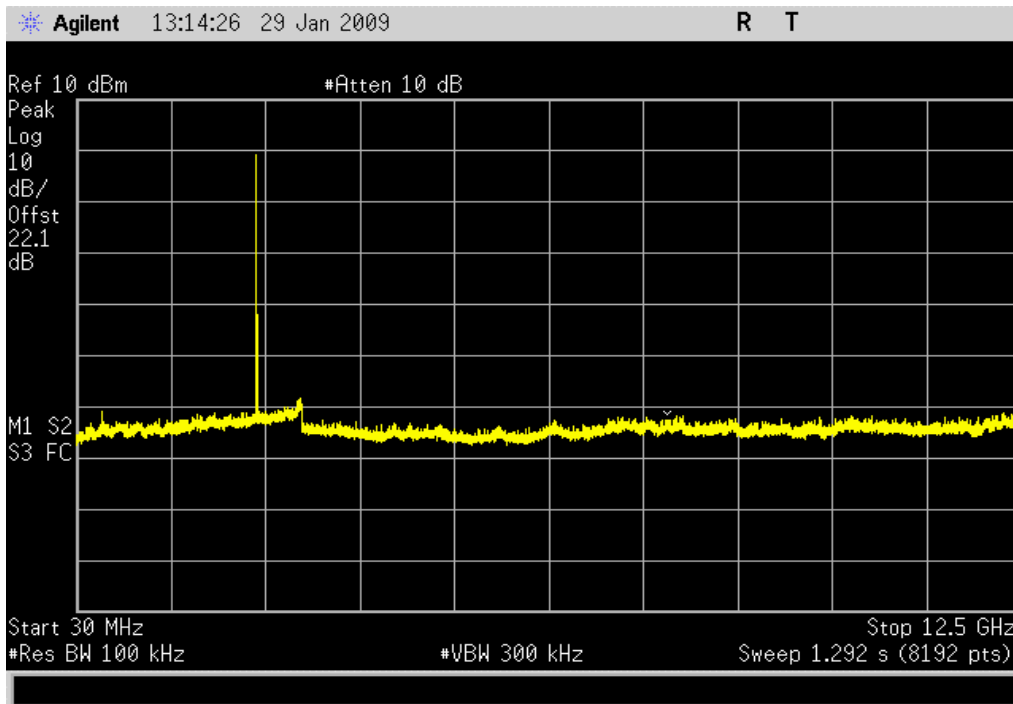
DEVIATIONS FROM TEST STANDARD

No Deviations

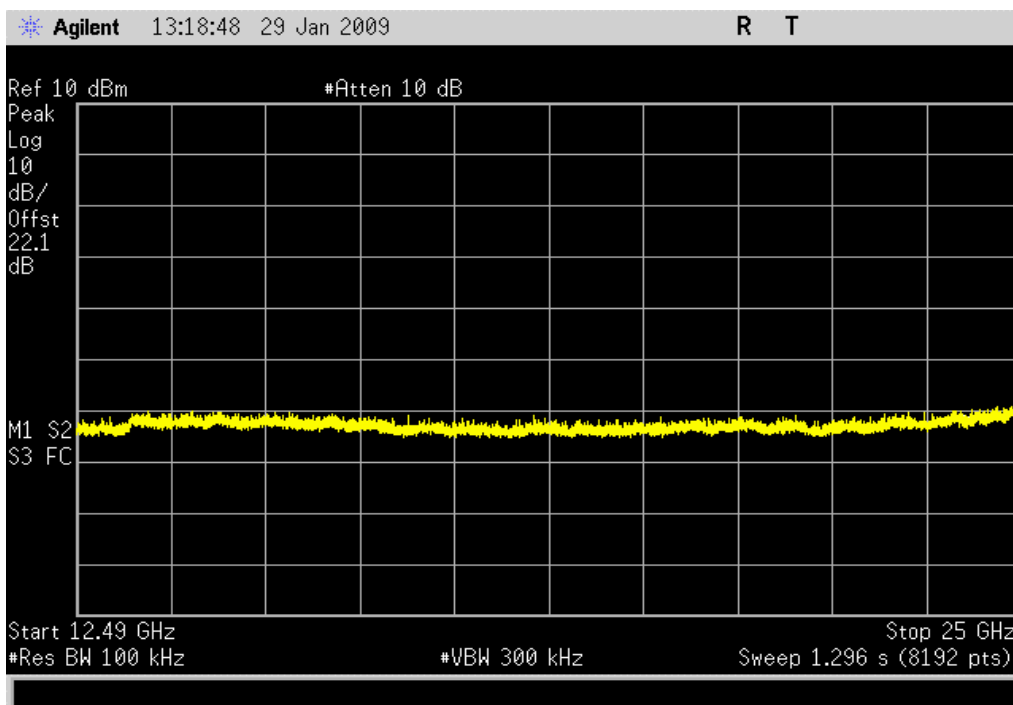
Configuration #	6	Signature 
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		Value	Limit	Results
Low Channel - 2405 MHz				
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	PASS
	12.49 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	PASS
Mid Channel - 2441 MHz				
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	PASS
	12.49 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	PASS
High Channel 2477 MHz				
	30 MHz - 12.5 GHz	< -40 dBc	≤ -20 dBc	PASS
	12.49 GHz - 25 GHz	< -40 dBc	≤ -20 dBc	PASS

Low Channel - 2405 MHz, 30 MHz - 12.5 GHz
Result: PASS **Value:** < -40 dBc **Limit:** ≤ -20 dBc



Low Channel - 2405 MHz, 12.49 GHz - 25 GHz
Result: PASS **Value:** < -40 dBc **Limit:** ≤ -20 dBc



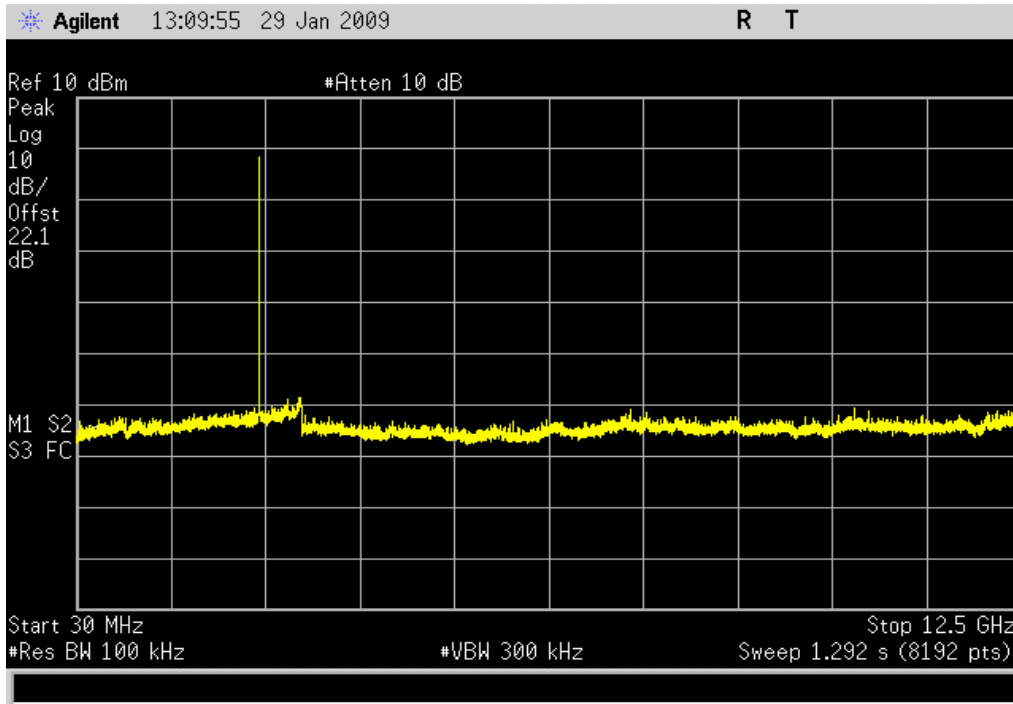
Spurious Conducted Emissions

Mid Channel - 2441 MHz, 30 MHz - 12.5 GHz

Result: PASS

Value: < -40 dBc

Limit: ≤ -20 dBc

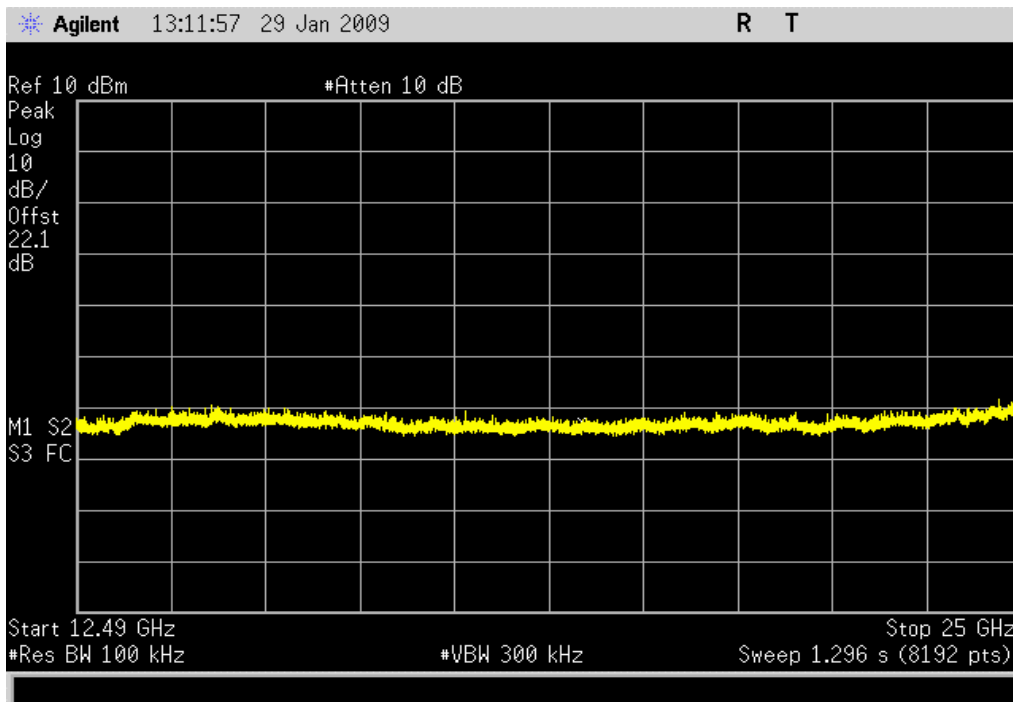


Mid Channel - 2441 MHz, 12.49 GHz - 25 GHz

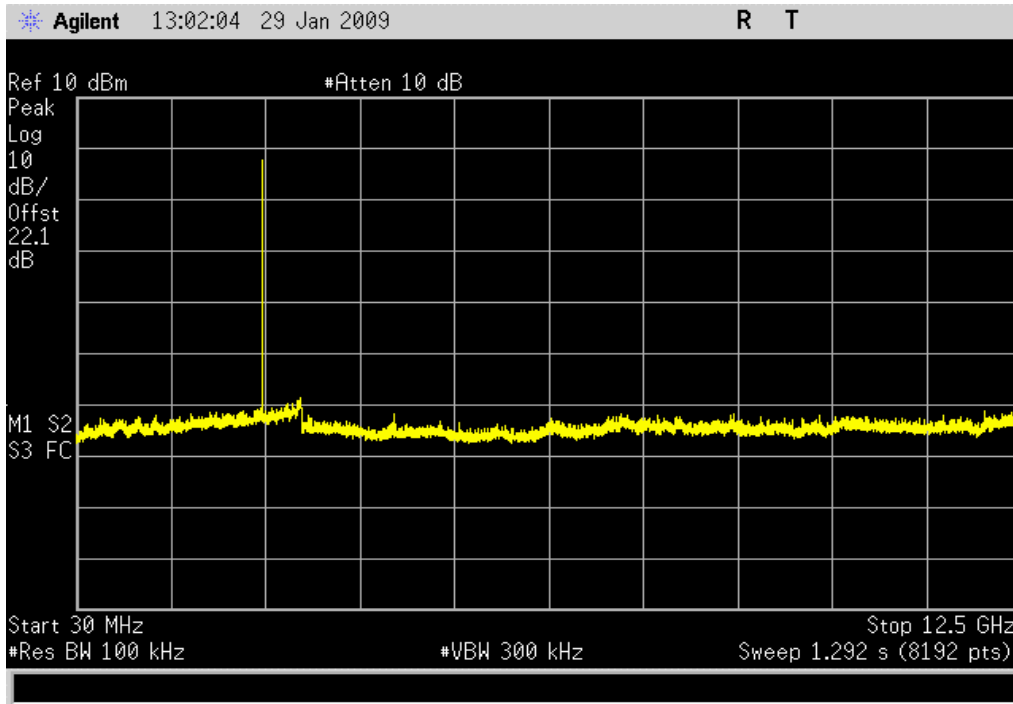
Result: PASS

Value: < -40 dBc

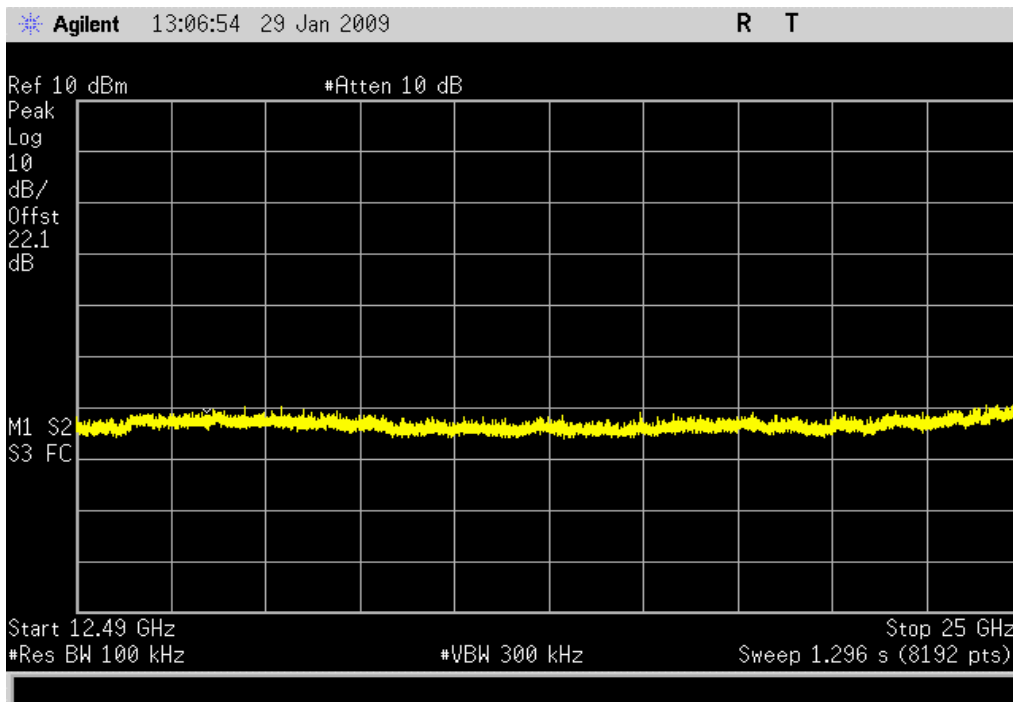
Limit: ≤ -20 dBc



High Channel 2477 MHz, 30 MHz - 12.5 GHz
Result: PASS **Value:** < -40 dBc **Limit:** ≤ -20 dBc



High Channel 2477 MHz, 12.49 GHz - 25 GHz
Result: PASS **Value:** < -40 dBc **Limit:** ≤ -20 dBc



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
Power Meter	Gigatronics	8651A	SPM	12/10/2008	13
Power Sensor	Gigatronics	80701A	SPL	12/10/2008	13
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/27/2008	13
Spectrum Analyzer	Agilent	E4407B	AAU	12/12/2008	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION


The peak power spectral density measurements were measured with the EUT set to low, mid, 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 maximum data rate for each modulation type available. Per the procedure outlined in FCC KDB 558074, March 23, 2005, the spectrum analyzer was used as follows:

The emission peak(s) were located and zoom in on within the passband. The resolution bandwidth was set to 3 kHz, the video bandwidth was set to greater than or equal to the resolution bandwidth. The sweep speed was set equal to the span divided by 3 kHz (sweep = (SPAN/3 kHz)). For example, given a span of 1.5 MHz, the sweep should be $1.5 \times 10^6 \div 3 \times 10^3 = 500$ seconds. External attenuation was used and added to the reading. The following FCC procedure was used for modifying the power spectral density measurements:

"If the spectrum line spacing cannot be resolved on the available spectrum analyzer, the noise density function on most modern conventional spectrum analyzers will directly measure the noise power density normalized to a 1 Hz noise power bandwidth. Add 35 dB for correction to 3 kHz."

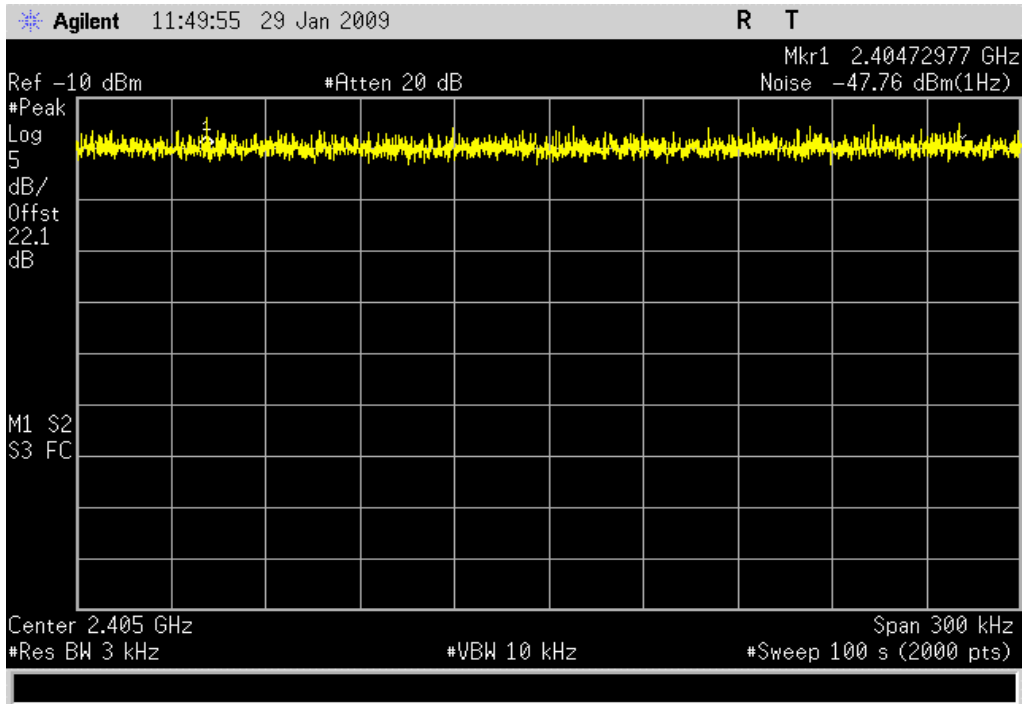
Power Spectral Density

EMC

EUT: Dongle - Audio 995 USB		Work Order: PLNT0002	
Serial Number: 55		Date: 01/29/09	
Customer: Plantronics		Temperature: 21.7°C	
Attendees: None		Humidity: 26%	
Project: None		Barometric Pres.: 30.71 Inches	
Tested by: Greg Kiemel		Power: Battery	Job Site: EV06
TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2009		ANSI C63.4:2003 KDB No. 558074	
COMMENTS			
Output power taken on 'Diversity Select Low' port			
DEVIATIONS FROM TEST STANDARD			
No Deviations			
Configuration #	6	Signature 	
		Value	Limit
Low Channel - 2405 MHz		-12.76 dBm / 3kHz	8 dBm / 3kHz
Mid Channel - 2441 MHz		-13.55 dBm / 3kHz	8 dBm / 3kHz
High Channel - 2477 MHz		-13.38 dBm / 3 kHz	8 dBm / 3kHz
			Results
			PASS
			PASS
			PASS

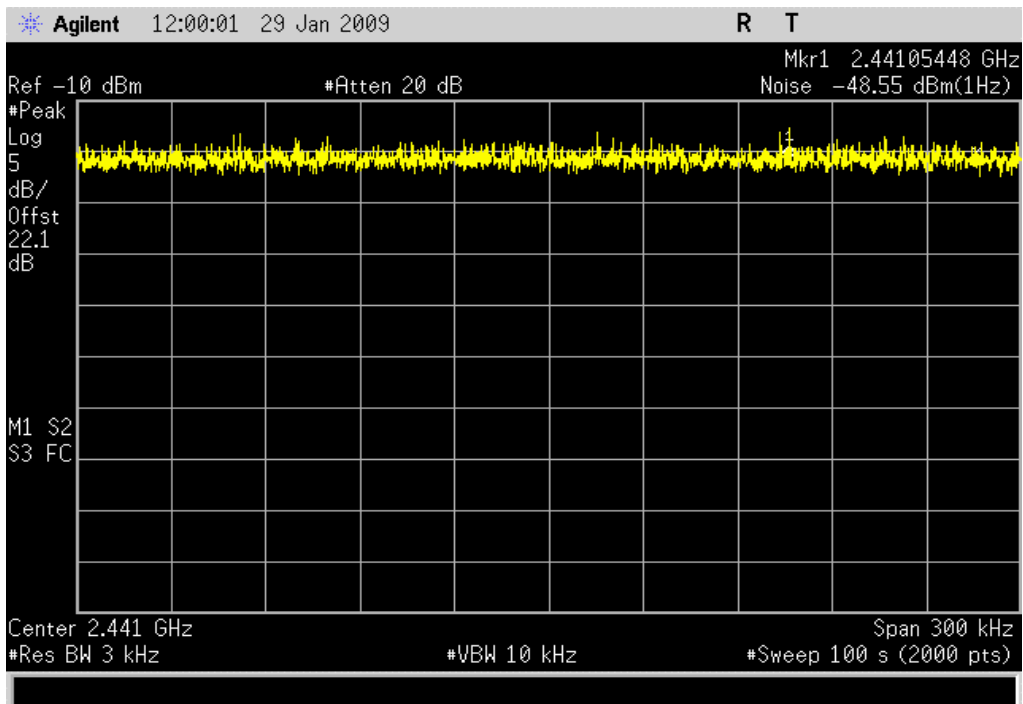
Low Channel - 2405 MHz

Result: PASS **Value:** -12.76 dBm / 3kHz **Limit:** 8 dBm / 3kHz



Mid Channel - 2441 MHz

Result: PASS **Value:** -13.55 dBm / 3kHz **Limit:** 8 dBm / 3kHz

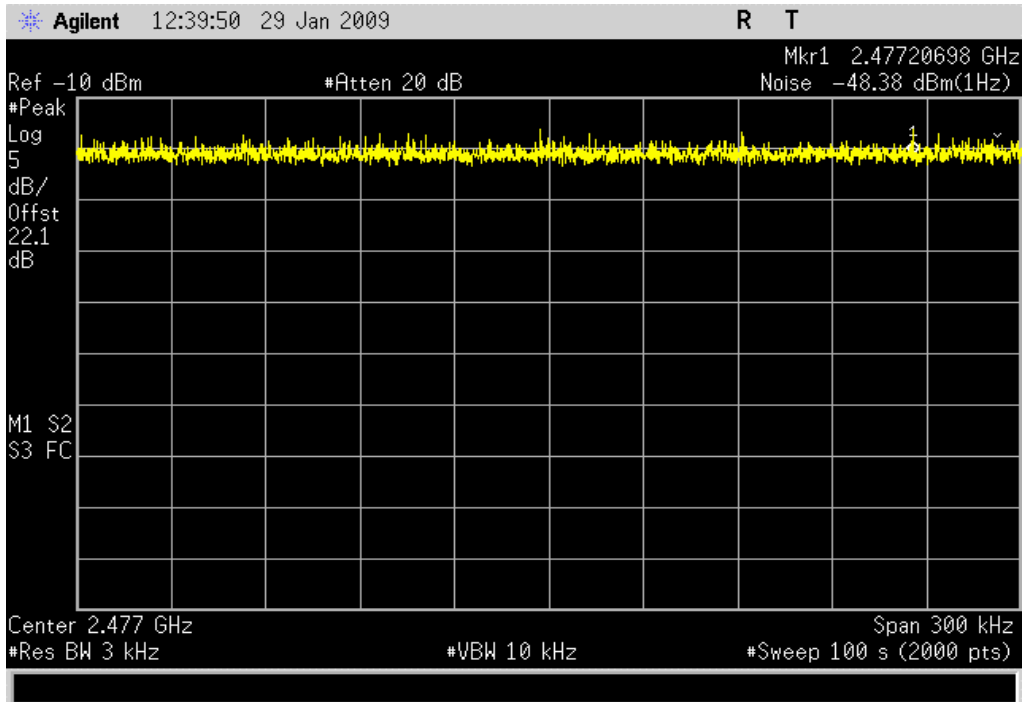


High Channel - 2477 MHz

Result: PASS

Value: -13.38 dBm / 3 kHz

Limit: 8 dBm / 3kHz



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

Tx, High Channel, Antenna 1 (Diversity Select Low)
Tx, Mid Channel, Antenna 1 (Diversity Select Low)
Tx, Low Channel, Antenna 1 (Diversity Select Low)

POWER SETTINGS INVESTIGATED

120V/60Hz

CONFIGURATIONS INVESTIGATED

PLNT0002 - 7

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARH	8/28/2008	12 mo
High Pass Filter	T.T.E.	7766	HFG	2/5/2008	13 mo
Attenuator	Coaxicom	66702 2910-20	ATO	6/30/2008	13 mo
EV07 Cables		Conducted Cables	EVG	5/2/2008	13 mo
LISN	Solar	9252-50-R-24-BNC	LIP	2/4/2009	13 mo
LISN	Solar	9252-50-R-24-BNC	LIR	2/4/2009	13 mo

MEASUREMENT BANDWIDTHS

	Frequency Range	Peak Data	Quasi-Peak Data	Average Data
	(MHz)	(kHz)	(kHz)	(kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

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

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is 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 C63.4-2003.

EMC

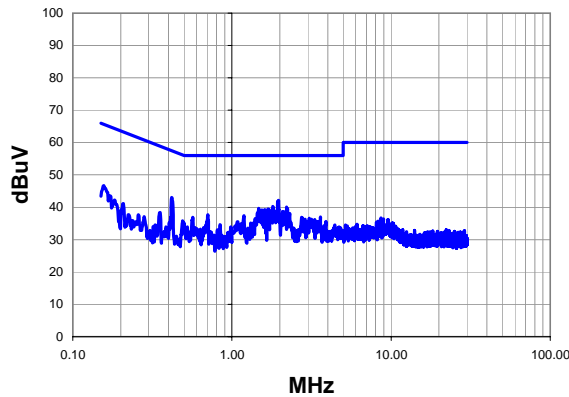
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	PLNT0002	Date:	02/05/09	<i>Jennifer Herrett</i>
Project:	None	Temperature:	20	
Job Site:	EV07	Humidity:	29	
Serial Number:	272	Barometric Pres.:	1010.2	
				Tested by: Jennifer Herrett
EUT:	Dongle - Audio 995 USB			
Configuration:	7 - AC Powerline Conducted Emissions - Dongle			
Customer:	Plantronics			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Tx, Low Channel, Antenna 1 (Diversity Select Low)			
Deviations:	No deviations			
Comments:	None			

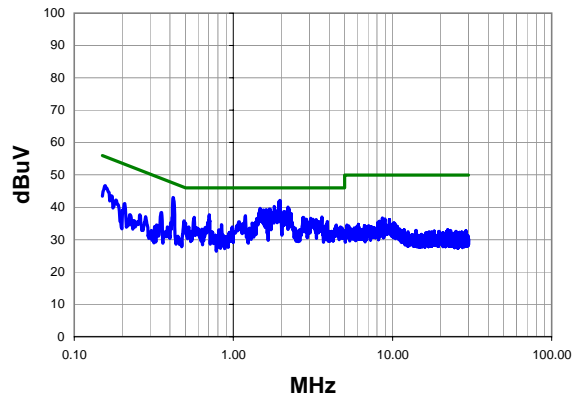
Test Specifications FCC 15.207:2009	Test Method ANSI C63.4:2003
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Run #	1	Line: High Line	Ext. Attenuation: 20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



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)
1.960	21.8	20.3	42.1	56.0	-13.9
1.936	21.5	20.3	41.8	56.0	-14.2
0.419	22.6	20.5	43.1	57.5	-14.4
1.808	20.0	20.3	40.3	56.0	-15.7
2.208	19.8	20.3	40.1	56.0	-15.9
1.472	19.4	20.3	39.7	56.0	-16.3
2.232	19.3	20.3	39.6	56.0	-16.4
1.688	19.2	20.3	39.5	56.0	-16.5
1.712	19.1	20.3	39.4	56.0	-16.6
1.608	19.0	20.3	39.3	56.0	-16.7
1.544	18.9	20.3	39.2	56.0	-16.8
2.072	18.4	20.3	38.7	56.0	-17.3
2.128	18.3	20.3	38.6	56.0	-17.4
1.736	18.2	20.3	38.5	56.0	-17.5
2.176	18.0	20.3	38.3	56.0	-17.7
2.304	17.8	20.3	38.1	56.0	-17.9
2.048	17.4	20.3	37.7	56.0	-18.3
0.706	17.3	20.3	37.6	56.0	-18.4
1.192	17.1	20.3	37.4	56.0	-18.6
0.157	25.4	21.3	46.7	65.6	-19.0

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.960	21.8	20.3	42.1	46.0	-3.9
1.936	21.5	20.3	41.8	46.0	-4.2
0.419	22.6	20.5	43.1	47.5	-4.4
1.808	20.0	20.3	40.3	46.0	-5.7
2.208	19.8	20.3	40.1	46.0	-5.9
1.472	19.4	20.3	39.7	46.0	-6.3
2.232	19.3	20.3	39.6	46.0	-6.4
1.688	19.2	20.3	39.5	46.0	-6.5
1.712	19.1	20.3	39.4	46.0	-6.6
1.608	19.0	20.3	39.3	46.0	-6.7
1.544	18.9	20.3	39.2	46.0	-6.8
2.072	18.4	20.3	38.7	46.0	-7.3
2.128	18.3	20.3	38.6	46.0	-7.4
1.736	18.2	20.3	38.5	46.0	-7.5
2.176	18.0	20.3	38.3	46.0	-7.7
2.304	17.8	20.3	38.1	46.0	-7.9
2.048	17.4	20.3	37.7	46.0	-8.3
0.706	17.3	20.3	37.6	46.0	-8.4
1.192	17.1	20.3	37.4	46.0	-8.6
0.157	25.4	21.3	46.7	55.6	-9.0

EMC

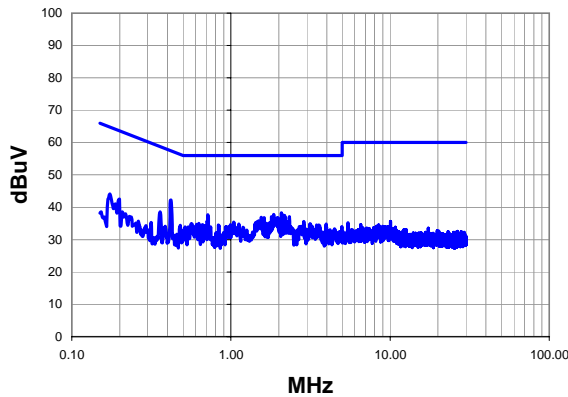
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	PLNT0002	Date:	02/05/09	<i>Jennifer Herrett</i> Tested by: Jennifer Herrett
Project:	None	Temperature:	20	
Job Site:	EV07	Humidity:	29	
Serial Number:	272	Barometric Pres.:	1010.2	
EUT:	Dongle - Audio 995 USB			
Configuration:	7 - AC Powerline Conducted Emissions - Dongle			
Customer:	Plantronics			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Tx, Low Channel, Antenna 1 (Diversity Select Low)			
Deviations:	No deviations			
Comments:	None			

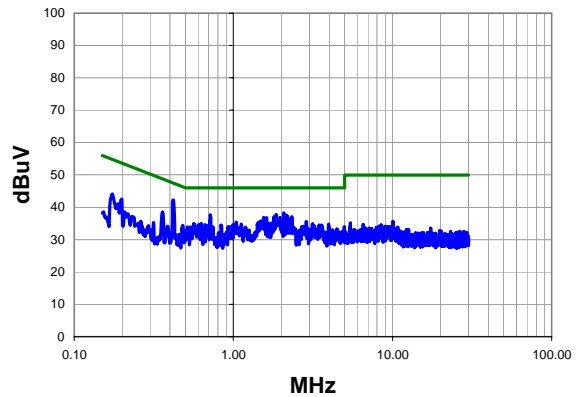
Test Specifications FCC 15.207:2009	Test Method ANSI C63.4:2003
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Run #	2	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



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)
0.419	21.8	20.5	42.3	57.5	-15.2
2.072	18.0	20.3	38.3	56.0	-17.7
1.856	17.5	20.3	37.8	56.0	-18.2
2.104	17.5	20.3	37.8	56.0	-18.2
0.716	17.3	20.3	37.6	56.0	-18.4
2.176	17.2	20.3	37.5	56.0	-18.5
2.328	16.8	20.3	37.1	56.0	-18.9
1.800	16.8	20.3	37.1	56.0	-18.9
1.552	16.6	20.3	36.9	56.0	-19.1
1.616	16.5	20.3	36.8	56.0	-19.2
2.040	15.9	20.3	36.2	56.0	-19.8
0.359	18.1	20.5	38.6	58.7	-20.1
2.872	15.3	20.3	35.6	56.0	-20.4
2.280	15.2	20.3	35.5	56.0	-20.5
1.040	15.1	20.3	35.4	56.0	-20.6
0.174	23.0	21.1	44.1	64.8	-20.7
1.752	14.9	20.3	35.2	56.0	-20.8
0.628	14.7	20.4	35.1	56.0	-20.9
1.680	14.7	20.3	35.0	56.0	-21.0
3.152	14.6	20.3	34.9	56.0	-21.1

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.419	21.8	20.5	42.3	47.5	-5.2
2.072	18.0	20.3	38.3	46.0	-7.7
1.856	17.5	20.3	37.8	46.0	-8.2
2.104	17.5	20.3	37.8	46.0	-8.2
0.716	17.3	20.3	37.6	46.0	-8.4
2.176	17.2	20.3	37.5	46.0	-8.5
2.328	16.8	20.3	37.1	46.0	-8.9
1.800	16.8	20.3	37.1	46.0	-8.9
1.552	16.6	20.3	36.9	46.0	-9.1
1.616	16.5	20.3	36.8	46.0	-9.2
2.040	15.9	20.3	36.2	46.0	-9.8
0.359	18.1	20.5	38.6	48.7	-10.1
2.872	15.3	20.3	35.6	46.0	-10.4
2.280	15.2	20.3	35.5	46.0	-10.5
1.040	15.1	20.3	35.4	46.0	-10.6
0.174	23.0	21.1	44.1	54.8	-10.7
1.752	14.9	20.3	35.2	46.0	-10.8
0.628	14.7	20.4	35.1	46.0	-10.9
1.680	14.7	20.3	35.0	46.0	-11.0
3.152	14.6	20.3	34.9	46.0	-11.1

EMC

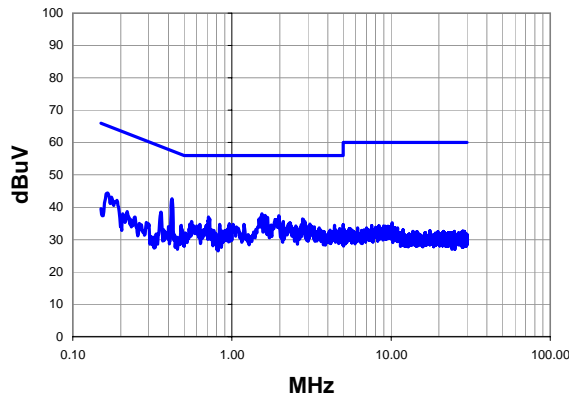
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	PLNT0002	Date:	02/05/09	<i>Jennifer Herrett</i>
Project:	None	Temperature:	20	
Job Site:	EV07	Humidity:	29	
Serial Number:	272	Barometric Pres.:	1010.2	
EUT:	Dongle - Audio 995 USB			
Configuration:	7 - AC Powerline Conducted Emissions - Dongle			
Customer:	Plantronics			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Tx, Mid Channel, Antenna 1 (Diversity Select Low)			
Deviations:	No deviations			
Comments:	None			

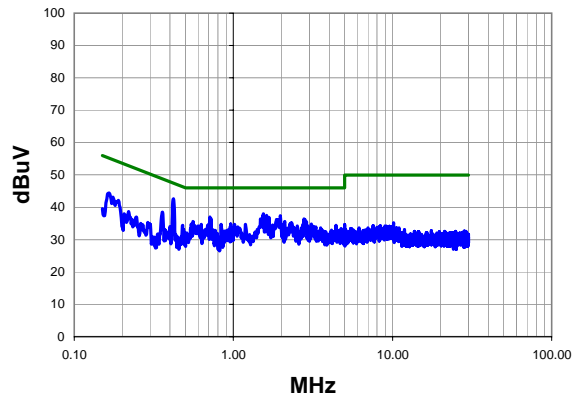
Test Specifications FCC 15.207:2009	Test Method ANSI C63.4:2003
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Run #	3	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.420	22.2	20.4	42.6	57.4	-14.8
1.544	17.7	20.3	38.0	56.0	-18.0
1.616	17.2	20.3	37.5	56.0	-18.5
1.976	17.1	20.3	37.4	56.0	-18.6
1.528	17.0	20.3	37.3	56.0	-18.7
0.713	16.7	20.3	37.0	56.0	-19.0
1.672	16.6	20.3	36.9	56.0	-19.1
0.725	16.1	20.3	36.4	56.0	-19.6
2.784	16.1	20.3	36.4	56.0	-19.6
0.357	18.0	20.5	38.5	58.8	-20.3
2.104	15.3	20.3	35.6	56.0	-20.4
0.558	15.2	20.4	35.6	56.0	-20.4
2.880	15.2	20.3	35.5	56.0	-20.5
0.165	23.2	21.2	44.4	65.2	-20.8
2.304	14.9	20.3	35.2	56.0	-20.8
0.703	14.5	20.3	34.8	56.0	-21.2
3.088	14.5	20.3	34.8	56.0	-21.2
0.963	14.5	20.3	34.8	56.0	-21.2
0.544	14.4	20.4	34.8	56.0	-21.2
0.629	14.4	20.4	34.8	56.0	-21.2

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.420	22.2	20.4	42.6	47.4	-4.8
1.544	17.7	20.3	38.0	46.0	-8.0
1.616	17.2	20.3	37.5	46.0	-8.5
1.976	17.1	20.3	37.4	46.0	-8.6
1.528	17.0	20.3	37.3	46.0	-8.7
0.713	16.7	20.3	37.0	46.0	-9.0
1.672	16.6	20.3	36.9	46.0	-9.1
0.725	16.1	20.3	36.4	46.0	-9.6
2.784	16.1	20.3	36.4	46.0	-9.6
0.357	18.0	20.5	38.5	48.8	-10.3
2.104	15.3	20.3	35.6	46.0	-10.4
0.558	15.2	20.4	35.6	46.0	-10.4
2.880	15.2	20.3	35.5	46.0	-10.5
0.165	23.2	21.2	44.4	55.2	-10.8
2.304	14.9	20.3	35.2	46.0	-10.8
0.703	14.5	20.3	34.8	46.0	-11.2
3.088	14.5	20.3	34.8	46.0	-11.2
0.963	14.5	20.3	34.8	46.0	-11.2
0.544	14.4	20.4	34.8	46.0	-11.2
0.629	14.4	20.4	34.8	46.0	-11.2

EMC

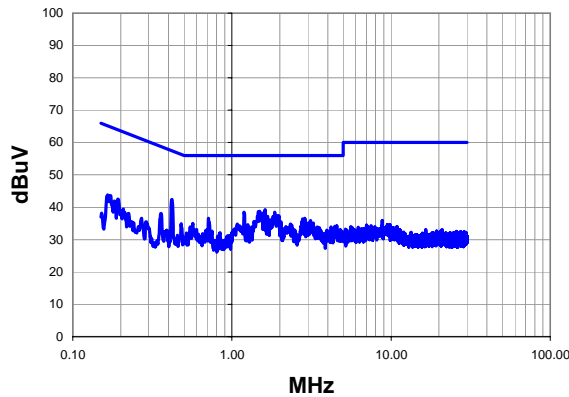
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	PLNT0002	Date:	02/05/09	<i>Jennifer Herrett</i> Tested by: Jennifer Herrett
Project:	None	Temperature:	20	
Job Site:	EV07	Humidity:	29	
Serial Number:	272	Barometric Pres.:	1010.2	
EUT:	Dongle - Audio 995 USB			
Configuration:	7 - AC Powerline Conducted Emissions - Dongle			
Customer:	Plantronics			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Tx, Mid Channel, Antenna 1 (Diversity Select Low)			
Deviations:	No deviations			
Comments:	None			

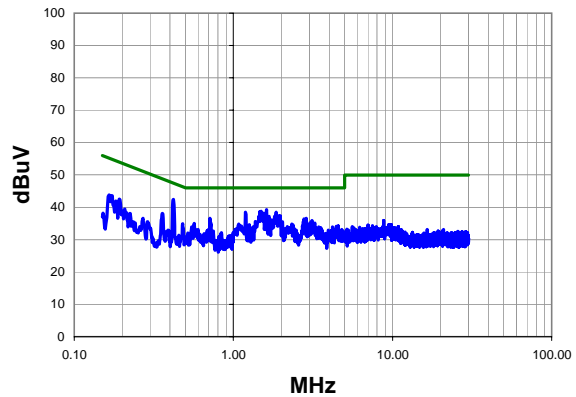
Test Specifications FCC 15.207:2009	Test Method ANSI C63.4:2003
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Run #	4	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.420	22.0	20.4	42.4	57.4	-15.0
1.616	19.0	20.3	39.3	56.0	-16.7
1.496	18.5	20.3	38.8	56.0	-17.2
1.464	18.4	20.3	38.7	56.0	-17.3
1.856	18.2	20.3	38.5	56.0	-17.5
1.192	18.2	20.3	38.5	56.0	-17.5
1.928	17.1	20.3	37.4	56.0	-18.6
1.680	16.9	20.3	37.2	56.0	-18.8
0.711	16.3	20.3	36.6	56.0	-19.4
2.872	16.3	20.3	36.6	56.0	-19.4
2.784	16.1	20.3	36.4	56.0	-19.6
3.112	15.6	20.3	35.9	56.0	-20.1
2.752	15.3	20.3	35.6	56.0	-20.4
2.040	15.2	20.3	35.5	56.0	-20.5
0.357	17.6	20.5	38.1	58.8	-20.7
3.040	14.9	20.3	35.2	56.0	-20.8
3.144	14.9	20.3	35.2	56.0	-20.8
0.568	14.6	20.4	35.0	56.0	-21.0
2.328	14.5	20.3	34.8	56.0	-21.2
0.193	21.6	21.0	42.6	63.9	-21.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.420	22.0	20.4	42.4	47.4	-5.0
1.616	19.0	20.3	39.3	46.0	-6.7
1.496	18.5	20.3	38.8	46.0	-7.2
1.464	18.4	20.3	38.7	46.0	-7.3
1.856	18.2	20.3	38.5	46.0	-7.5
1.192	18.2	20.3	38.5	46.0	-7.5
1.928	17.1	20.3	37.4	46.0	-8.6
1.680	16.9	20.3	37.2	46.0	-8.8
0.711	16.3	20.3	36.6	46.0	-9.4
2.872	16.3	20.3	36.6	46.0	-9.4
2.784	16.1	20.3	36.4	46.0	-9.6
3.112	15.6	20.3	35.9	46.0	-10.1
2.752	15.3	20.3	35.6	46.0	-10.4
2.040	15.2	20.3	35.5	46.0	-10.5
0.357	17.6	20.5	38.1	48.8	-10.7
3.040	14.9	20.3	35.2	46.0	-10.8
3.144	14.9	20.3	35.2	46.0	-10.8
0.568	14.6	20.4	35.0	46.0	-11.0
2.328	14.5	20.3	34.8	46.0	-11.2
0.193	21.6	21.0	42.6	53.9	-11.4

EMC

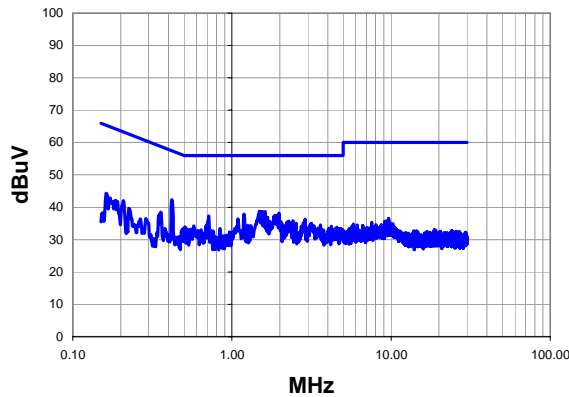
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	PLNT0002	Date:	02/05/09	<i>Jennifer Herrett</i> Tested by: Jennifer Herrett
Project:	None	Temperature:	20	
Job Site:	EV07	Humidity:	29	
Serial Number:	272	Barometric Pres.:	1010.2	
EUT:	Dongle - Audio 995 USB			
Configuration:	7 - AC Powerline Conducted Emissions - Dongle			
Customer:	Plantronics			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Tx, High Channel, Antenna 1 (Diversity Select Low)			
Deviations:	No deviations			
Comments:	None			

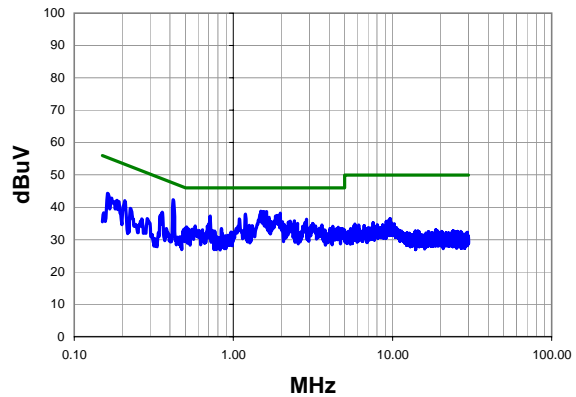
Test Specifications FCC 15.207:2009	Test Method ANSI C63.4:2003
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Run #	5	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



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)
0.419	21.9	20.5	42.4	57.5	-15.1
1.488	18.5	20.3	38.8	56.0	-17.2
1.560	18.4	20.3	38.7	56.0	-17.3
1.616	18.4	20.3	38.7	56.0	-17.3
1.976	17.9	20.3	38.2	56.0	-17.8
1.192	17.6	20.3	37.9	56.0	-18.1
1.880	17.2	20.3	37.5	56.0	-18.5
0.714	17.0	20.3	37.3	56.0	-18.7
1.680	16.6	20.3	36.9	56.0	-19.1
1.088	16.1	20.3	36.4	56.0	-19.6
2.880	16.0	20.3	36.3	56.0	-19.7
2.416	15.5	20.3	35.8	56.0	-20.2
0.357	18.0	20.5	38.5	58.8	-20.3
2.280	15.4	20.3	35.7	56.0	-20.3
2.248	15.1	20.3	35.4	56.0	-20.6
3.144	14.7	20.3	35.0	56.0	-21.0
2.528	14.7	20.3	35.0	56.0	-21.0
0.162	23.1	21.2	44.3	65.4	-21.0
0.699	14.5	20.3	34.8	56.0	-21.2
0.208	21.2	20.9	42.1	63.3	-21.2

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.419	21.9	20.5	42.4	47.5	-5.1
1.488	18.5	20.3	38.8	46.0	-7.2
1.560	18.4	20.3	38.7	46.0	-7.3
1.616	18.4	20.3	38.7	46.0	-7.3
1.976	17.9	20.3	38.2	46.0	-7.8
1.192	17.6	20.3	37.9	46.0	-8.1
1.880	17.2	20.3	37.5	46.0	-8.5
0.714	17.0	20.3	37.3	46.0	-8.7
1.680	16.6	20.3	36.9	46.0	-9.1
1.088	16.1	20.3	36.4	46.0	-9.6
2.880	16.0	20.3	36.3	46.0	-9.7
2.416	15.5	20.3	35.8	46.0	-10.2
0.357	18.0	20.5	38.5	48.8	-10.3
2.280	15.4	20.3	35.7	46.0	-10.3
2.248	15.1	20.3	35.4	46.0	-10.6
3.144	14.7	20.3	35.0	46.0	-11.0
2.528	14.7	20.3	35.0	46.0	-11.0
0.162	23.1	21.2	44.3	55.4	-11.0
0.699	14.5	20.3	34.8	46.0	-11.2
0.208	21.2	20.9	42.1	53.3	-11.2

EMC

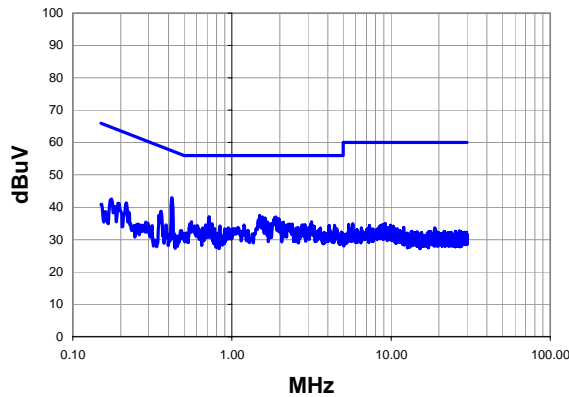
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	PLNT0002	Date:	02/05/09	<i>Jennifer Herrett</i>
Project:	None	Temperature:	20	
Job Site:	EV07	Humidity:	29	
Serial Number:	272	Barometric Pres.:	1010.2	
EUT:	Dongle - Audio 995 USB			
Configuration:	7 - AC Powerline Conducted Emissions - Dongle			
Customer:	Plantronics			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Tx, High Channel, Antenna 1 (Diversity Select Low)			
Deviations:	No deviations			
Comments:	None			

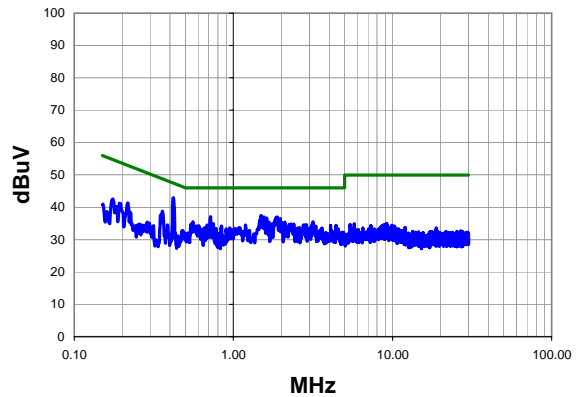
Test Specifications FCC 15.207:2009	Test Method ANSI C63.4:2003
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Run #	6	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



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)
0.419	22.5	20.5	43.0	57.5	-14.5
1.496	17.2	20.3	37.5	56.0	-18.5
0.719	16.8	20.3	37.1	56.0	-18.9
1.888	16.7	20.3	37.0	56.0	-19.0
1.560	16.7	20.3	37.0	56.0	-19.0
1.616	16.4	20.3	36.7	56.0	-19.3
1.976	16.2	20.3	36.5	56.0	-19.5
0.359	18.3	20.5	38.8	58.7	-19.9
3.160	15.2	20.3	35.5	56.0	-20.5
0.556	15.1	20.4	35.5	56.0	-20.5
2.104	15.1	20.3	35.4	56.0	-20.6
1.680	15.1	20.3	35.4	56.0	-20.6
2.040	14.8	20.3	35.1	56.0	-20.9
0.748	14.6	20.3	34.9	56.0	-21.1
1.760	14.6	20.3	34.9	56.0	-21.1
2.400	14.5	20.3	34.8	56.0	-21.2
2.304	14.5	20.3	34.8	56.0	-21.2
2.128	14.4	20.3	34.7	56.0	-21.3
2.880	14.3	20.3	34.6	56.0	-21.4
0.684	14.2	20.3	34.5	56.0	-21.5

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.419	22.5	20.5	43.0	47.5	-4.5
1.496	17.2	20.3	37.5	46.0	-8.5
0.719	16.8	20.3	37.1	46.0	-8.9
1.888	16.7	20.3	37.0	46.0	-9.0
1.560	16.7	20.3	37.0	46.0	-9.0
1.616	16.4	20.3	36.7	46.0	-9.3
1.976	16.2	20.3	36.5	46.0	-9.5
0.359	18.3	20.5	38.8	48.7	-9.9
3.160	15.2	20.3	35.5	46.0	-10.5
0.556	15.1	20.4	35.5	46.0	-10.5
2.104	15.1	20.3	35.4	46.0	-10.6
1.680	15.1	20.3	35.4	46.0	-10.6
2.040	14.8	20.3	35.1	46.0	-10.9
0.748	14.6	20.3	34.9	46.0	-11.1
1.760	14.6	20.3	34.9	46.0	-11.1
2.400	14.5	20.3	34.8	46.0	-11.2
2.304	14.5	20.3	34.8	46.0	-11.2
2.128	14.4	20.3	34.7	46.0	-11.3
2.880	14.3	20.3	34.6	46.0	-11.4
0.684	14.2	20.3	34.5	46.0	-11.5