

Summit Semiconductor

Model No. 444-2196H
(Silverton)

Report No. FOCU0094

Report Prepared By



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

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EMC Test Report



22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test
Last Date of Test: October 01, 2010
Summit Semiconductor
Model: 444-2196H (Silverton)

| Emissions | | | |
|----------------------------------|-----------------|------------------|-----------|
| Test Description | Specification | Test Method | Pass/Fail |
| Occupied Bandwidth | FCC 15.247:2010 | ANSI C63.10:2009 | Pass |
| Output Power – Channel Power | FCC 15.247:2010 | ANSI C63.10:2009 | Pass |
| Band Edge Compliance | FCC 15.247:2010 | ANSI C63.10:2009 | Pass |
| Spurious Conducted Emissions | FCC 15.247:2010 | ANSI C63.10:2009 | Pass |
| Power Spectral Density | FCC 15.247:2010 | ANSI C63.10:2009 | Pass |
| Spurious Radiated Emissions | FCC 15.209:2010 | ANSI C63.10:2009 | Pass |
| AC Powerline Conducted Emissions | FCC 15.207:2010 | ANSI C63.10:2009 | Pass |
| Burst Duration | FCC 15.247:2010 | ANSI C63.10:2009 | 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 | | |

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.



Accreditations and Authorizations

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
NVLAP LAB CODE 200881-0

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, Brooklyn Park: 2834E-1*)



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, G-84, C-2687, T-1658, and R-2318, Irvine: R-1943, G-85, C-2766, and T-1659, Sultan: R-871, G-83, C-1784, and T-1511, Brooklyn Park: R-3125, G-86, G-141, C-3464, and T-1634).



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)



VIETNAM

Vietnam MIC has approved Northwest EMC as an accredited test lab. Per Decision No. 194/QD-QLCL (dated December 15, 2009), Northwest EMC test reports can be used for Vietnam approval submissions.



SCOPE

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

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



Northwest EMC Locations



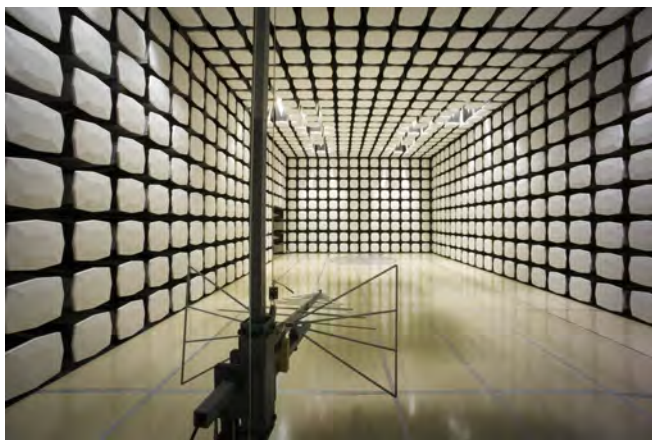
Oregon
Labs EV01-EV12
22975 NW Evergreen Pkwy
Suite 400
Hillsboro, OR 97124
(503) 844-4066

California
Labs OC01-OC13
41 Tesla
Irvine, CA 92618
(949) 861-8918

Minnesota
Labs MN01-MN08
9349 W Broadway Ave.
Brooklyn Park,
MN 55445
(763) 425-2281

Washington
Labs SU01-SU07
14128 339th Ave. SE
Sultan, WA 98294
(360) 793-8675

New York
Labs WA01-WA04
4939 Jordan Rd.
Elbridge, NY 13060
(315) 685-0796



| | | |
|-------------------------|----------------------------|--------------|
| Northwest EMC | Product Description | Rev 11/17/06 |
|-------------------------|----------------------------|--------------|

Party Requesting the Test

| | |
|---------------------------------|--------------------------------|
| Company Name: | Summit Semiconductor |
| Address: | 22867 NW Bennett St, Suite 200 |
| City, State, Zip: | Hillsboro, OR 97124 |
| Test Requested By: | Ken Boehlke |
| Model: | 444-2196H (Silverton) |
| First Date of Test: | September 23, 2010 |
| Last Date of Test: | October 1, 2010 |
| Receipt Date of Samples: | September 23, 2010 |
| Equipment Design Stage: | Preproduction |
| Equipment Condition: | No Damage |

Information Provided by the Party Requesting the Test

| |
|--|
| Functional Description of the EUT (Equipment Under Test): |
| Wireless Audio Slave Board - Radiated |

| |
|--|
| Testing Objective: |
| These tests were selected to satisfy the EMC requirements requested by the client. |

CONFIGURATION 1 FOCU0094**Software/Firmware Running during test**

| Description | Version |
|-------------|---------|
| Hood BIST13 | 13 |

EUT

| Description | Manufacturer | Model/Part Number | Serial Number |
|---|----------------------|-----------------------|---------------|
| Wireless Audio Slave Board - Direct Connect | Summit Semiconductor | 444-2196H (Silverton) | 2E |

Peripherals in test setup boundary

| Description | Manufacturer | Model/Part Number | Serial Number |
|------------------------------------|----------------------|-------------------|---------------|
| DC Power / RS-232 Serial Interface | Summit Semiconductor | Hermiston | None |
| AC Adapter | PHIHONG | PSA21R-033 | None |

Remote Equipment Outside of Test Setup Boundary

| Description | Manufacturer | Model/Part Number | Serial Number |
|-------------|--------------|-------------------|---------------|
| Remote PC | Dell | Latitude D820 | 2006-00516 |

Cables

| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
|----------------------|--------|------------|---------|---|------------------------------------|
| Multi-pin flex cable | No | 0.3m | No | Wireless Audio Slave Board - Direct Connect | DC Power / RS-232 Serial Interface |
| Serial | Yes | 2.0m | No | DC Power / RS-232 Serial Interface | Remote PC |
| DC Lead | PA | 1.8m | PA | AC Adapter | DC Power / RS-232 Serial Interface |

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

CONFIGURATION 2 FOCU0094**Software/Firmware Running during test**

| Description | Version |
|-------------|---------|
| Hood BIST13 | 13 |

EUT

| Description | Manufacturer | Model/Part Number | Serial Number |
|---------------------------------------|----------------------|-----------------------|---------------|
| Wireless Audio Slave Board - Radiated | Summit Semiconductor | 444-2196H (Silverton) | 2C |

Peripherals in test setup boundary

| Description | Manufacturer | Model/Part Number | Serial Number |
|------------------------------------|----------------------|-------------------|---------------|
| DC Power / RS-232 Serial Interface | Summit Semiconductor | Hermiston | none |
| DC Block | MCL | BLK-89 | 15542 |
| DC Power Supply | Topward | 6303D | 743645 |

Remote Equipment Outside of Test Setup Boundary

| Description | Manufacturer | Model/Part Number | Serial Number |
|-------------|--------------|-------------------|---------------|
| Remote PC | IBM | Thnkpap A21m | IS108 |

Cables

| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
|----------------------|--------|------------|---------|---|------------------------------------|
| Multi-pin flex cable | No | 0.3m | No | Wireless Audio Slave Board - Direct Connect | DC Power / RS-232 Serial Interface |
| Serial | Yes | 2.0m | No | DC Power / RS-232 Serial Interface | Remote PC |
| DC Lead | PA | 1.8m | PA | AC Adapter | DC Power / RS-232 Serial Interface |

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

CONFIGURATION 3 FOCU0094**Software/Firmware Running during test**

| Description | Version |
|-------------|---------|
| Hood BIST13 | 13 |

EUT

| Description | Manufacturer | Model/Part Number | Serial Number |
|---------------------------------------|----------------------|-----------------------|---------------|
| Wireless Audio Slave Board - Radiated | Summit Semiconductor | 444-2196H (Silverton) | 2E |

Peripherals in test setup boundary

| Description | Manufacturer | Model/Part Number | Serial Number |
|------------------------------------|----------------------|-------------------|---------------|
| DC Power / RS-232 Serial Interface | Summit Semiconductor | Hermiston | none |

Remote Equipment Outside of Test Setup Boundary

| Description | Manufacturer | Model/Part Number | Serial Number |
|-------------|--------------|-------------------|---------------|
| Remote PC | Dell | Latitude D820 | 2006-00516 |

Cables

| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
|----------------------|--------|------------|---------|---|------------------------------------|
| Multi-pin flex cable | No | 0.3m | No | Wireless Audio Slave Board - Direct Connect | DC Power / RS-232 Serial Interface |
| AC Power | No | 1.8m | No | AC Mains | 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 | 9/23/2010 | 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. |
| 2 | 9/23/2010 | Occupied Bandwidth | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 3 | 9/23/2010 | Output Power – Channel Power | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 4 | 9/23/2010 | Burst Duration | 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 | 9/23/2010 | 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 | 9/23/2010 | 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. |
| 7 | 9/27/2010 | 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 | 10/1/2010 | 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.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Interval |
|---------------------------------|------------------|----------|-----|------------|----------|
| Spectrum Analyzer | Agilent | E4440A | AFD | 6/1/2009 | 24 |
| 26 GHz DC Block, SMA | Pasternack | PE8210 | AME | 10/19/2009 | 13 |
| Attenuator 20 dB, SMA M/F 26GHz | S.M. Electronics | SA26B-20 | AUY | 8/6/2010 | 13 |
| EV06 Direct Connect Cable | ESM Cable Corp. | TT | ECA | 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 available data rate of 6Mbps with OFDM type modulation.

EMC

OCCUPIED BANDWIDTH

| | | | |
|----------------|----------------------|-------------------|----------|
| EUT: | Silverton | Work Order: | FOCU0094 |
| Serial Number: | 2E | Date: | 09/23/10 |
| Customer: | Summit Semiconductor | Temperature: | 22°C |
| Attendees: | Ponnappa Pasura | Humidity: | 45% |
| Project: | None | Barometric Pres.: | 30.10 in |
| Tested by: | Rod Peloquin | Power: | 3.3 VDC |
| | | Job Site: | EV06 |

| | |
|---------------------|------------------|
| TEST SPECIFICATIONS | Test Method |
| FCC 15.247:2010 | ANSI C63.10:2009 |

COMMENTS

2.0 dB loss added for adapter cable and DC block. Transmitting with duty cycle noted elsewhere in report.

DEVIATIONS FROM TEST STANDARD

None

| | | |
|-----------------|---|---|
| Configuration # | 2 | Signature  |
|-----------------|---|---|

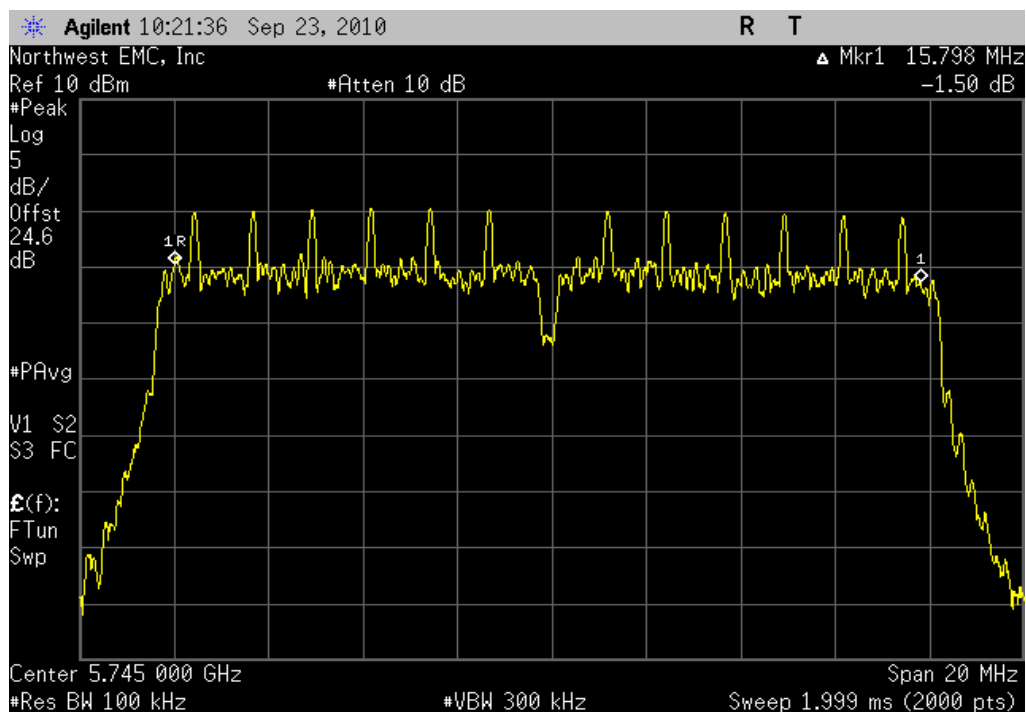
| | | Value | Limit | Results |
|--------|----------------------------|------------|-----------|---------|
| 6 Mbps | Low Channel 149, 5745 MHz | 15.798 MHz | > 500 kHz | Pass |
| | Mid Channel 157, 5785 MHz | 16.288 MHz | > 500 kHz | Pass |
| | High Channel 165, 5825 MHz | 16.298 MHz | > 500 kHz | Pass |

6 Mbps, Low Channel 149, 5745 MHz

Result: Pass

Value: 15.798 MHz

Limit: > 500 kHz

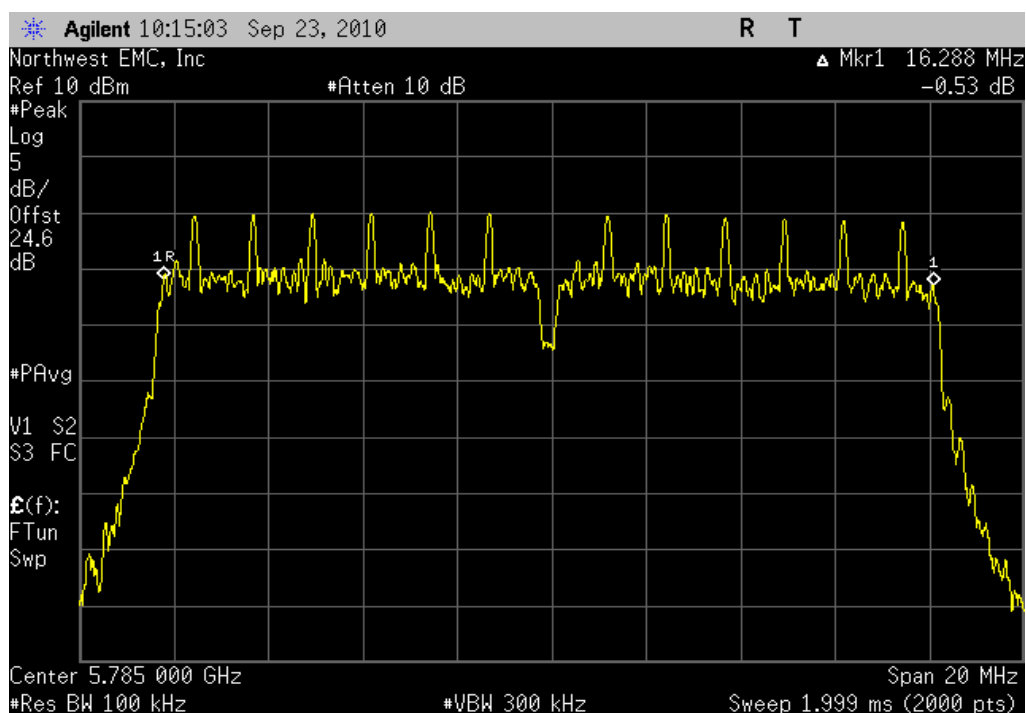


6 Mbps, Mid Channel 157, 5785 MHz

Result: Pass

Value: 16.288 MHz

Limit: > 500 kHz



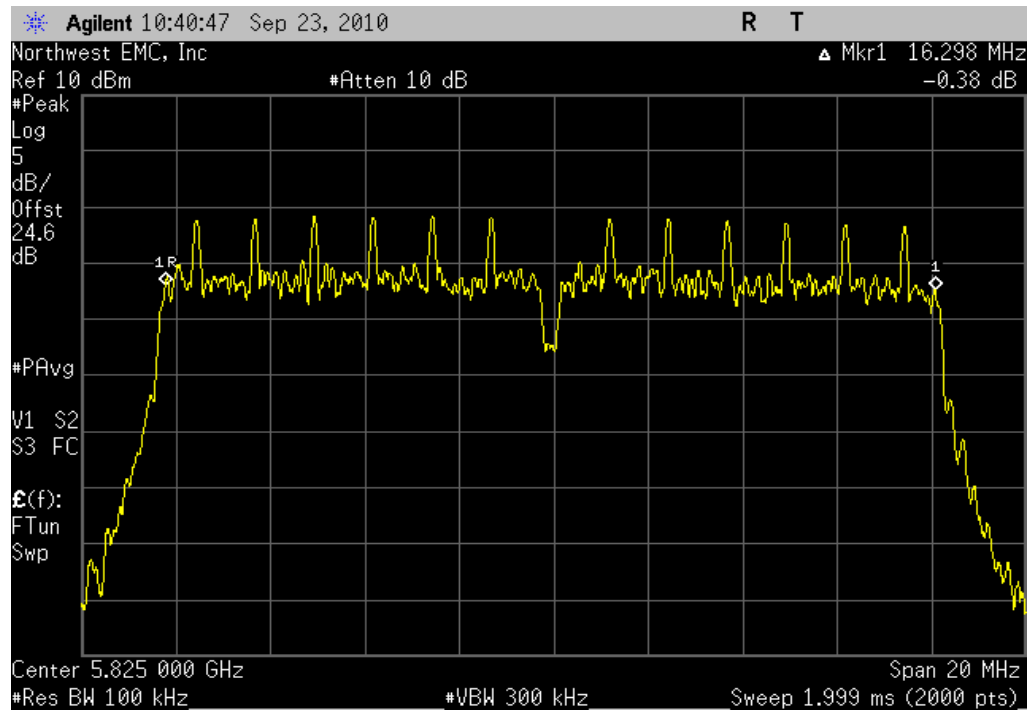
OCCUPIED BANDWIDTH

6 Mbps, High Channel 165, 5825 MHz

Result: Pass

Value: 16.298 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 |
| Spectrum Analyzer | Agilent | E4440A | AFD | 6/1/2009 | 24 |
| 26 GHz DC Block, SMA | Pasternack | PE8210 | AME | 10/19/2009 | 13 |
| EV06 Direct Connect Cable | ESM Cable Corp. | TT | ECA | NCR | 0 |
| Attenuator 20 dB, SMA M/F 26GHz | S.M. Electronics | SA26B-20 | AUY | 8/6/2010 | 13 |
| Power Meter | Gigatronics | 8651A | SPM | 1/7/2010 | 13 |
| Power Sensor | Gigatronics | 80701A | SPL | 1/7/2010 | 13 |
| Attenuator, 6 dB, 'SMA' | N/A | 93459 3330A-6 | AUF | 4/1/2010 | 13 |
| Signal Generator | Agilent | E8257D | TGX | 12/10/2008 | 24 |

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input. The amplitude accuracy of the spectrum analyzer was further enhanced by calibrating the setup using the power meter and synthesized signal generator.

Prior to measuring peak transmit power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Maximum Conducted Output Power. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

Method #3 found in ANSI C63.10 section 6.10.2.2 was used because the analyzer sweep time was greater than T for the operating mode which has the shortest transmission pulse duration and the Emission Bandwidth was greater than the largest RBW on the analyzer.

RF gating was used on the analyzer to ensure the measurement sweep was during the highest power of the transmitter pulse duration

The spectrum analyzer settings were as follows:

- The span was set to encompass entire emission bandwidth (B), centered on the transmit channel.
- The RBW = 1 MHz, VBW = 3 MHz
- Sample detector mode because the bin width (span / number of spectral points) < 0.5 RBW.
- Power was integrated across "B", by using the channel power function of the analyzer.

EMC

OUTPUT POWER - CHANNEL POWER

| | | | |
|----------------|----------------------|-------------------|----------|
| EUT: | Silverton | Work Order: | FOCU0094 |
| Serial Number: | 2E | Date: | 09/23/10 |
| Customer: | Summit Semiconductor | Temperature: | 22°C |
| Attendees: | Ponnappa Pasura | Humidity: | 45% |
| Project: | None | Barometric Pres.: | 30.10 in |
| Tested by: | Rod Peloquin | Power: | 3.3 VDC |
| | | Job Site: | EV06 |

| | |
|---------------------|------------------|
| TEST SPECIFICATIONS | Test Method |
| FCC 15.247:2010 | ANSI C63.10:2009 |

COMMENTS

2.06 dB loss added for adapter cable and DC block. Transmitting with duty cycle noted elsewhere in report.

DEVIATIONS FROM TEST STANDARD

None

| | | |
|-----------------|---|---|
| Configuration # | 2 | Signature  |
|-----------------|---|---|

| | | Value | Limit | Results |
|--------|----------------------------|----------|--------|---------|
| 6 Mbps | Low Channel 149, 5745 MHz | 10.1 dBm | 30 dBm | Pass |
| | Mid Channel 157, 5785 MHz | 9.9 dBm | 30 dBm | Pass |
| | High Channel 165, 5825 MHz | 9.5 dBm | 30 dBm | Pass |

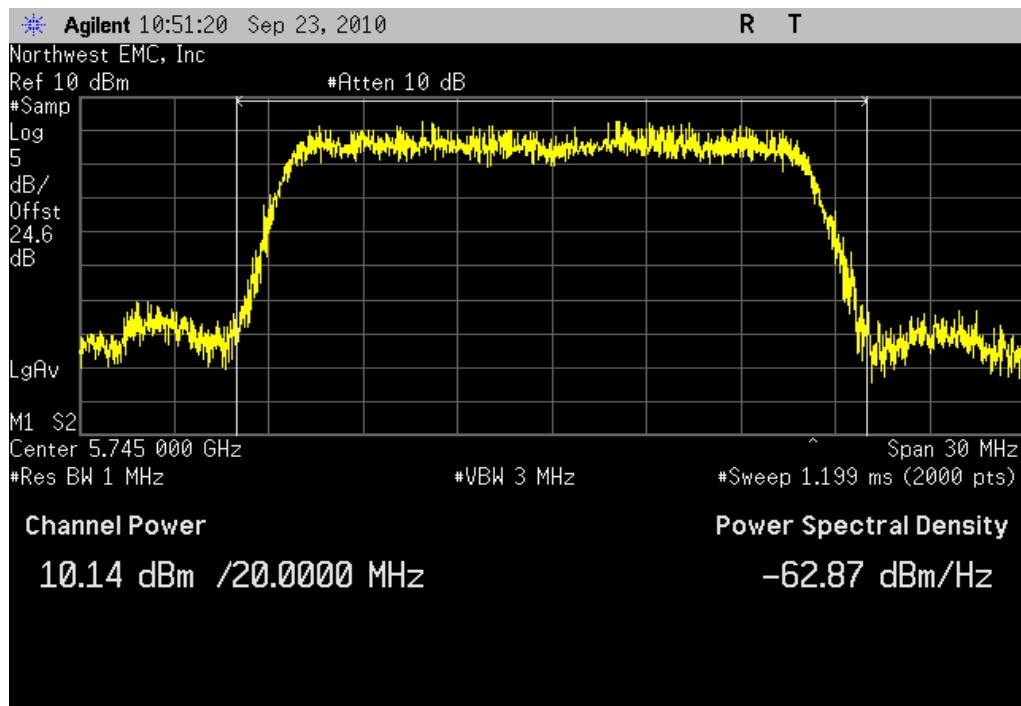
OUTPUT POWER - CHANNEL POWER

6 Mbps, Low Channel 149, 5745 MHz

Result: Pass

Value: 10.1 dBm

Limit: 30 dBm

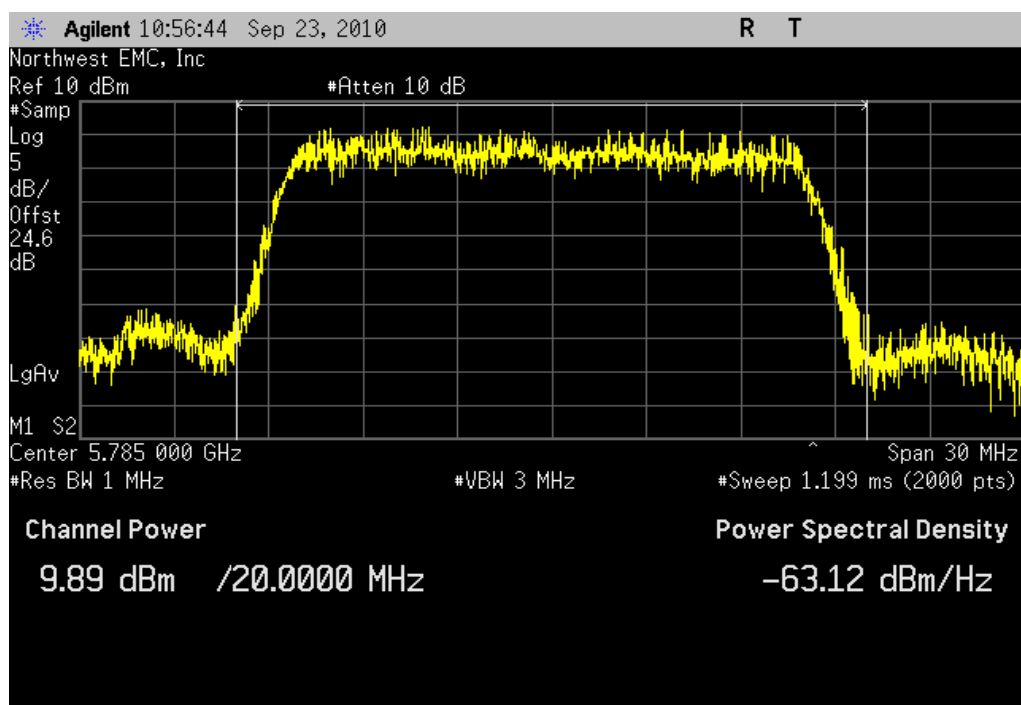


6 Mbps, Mid Channel 157, 5785 MHz

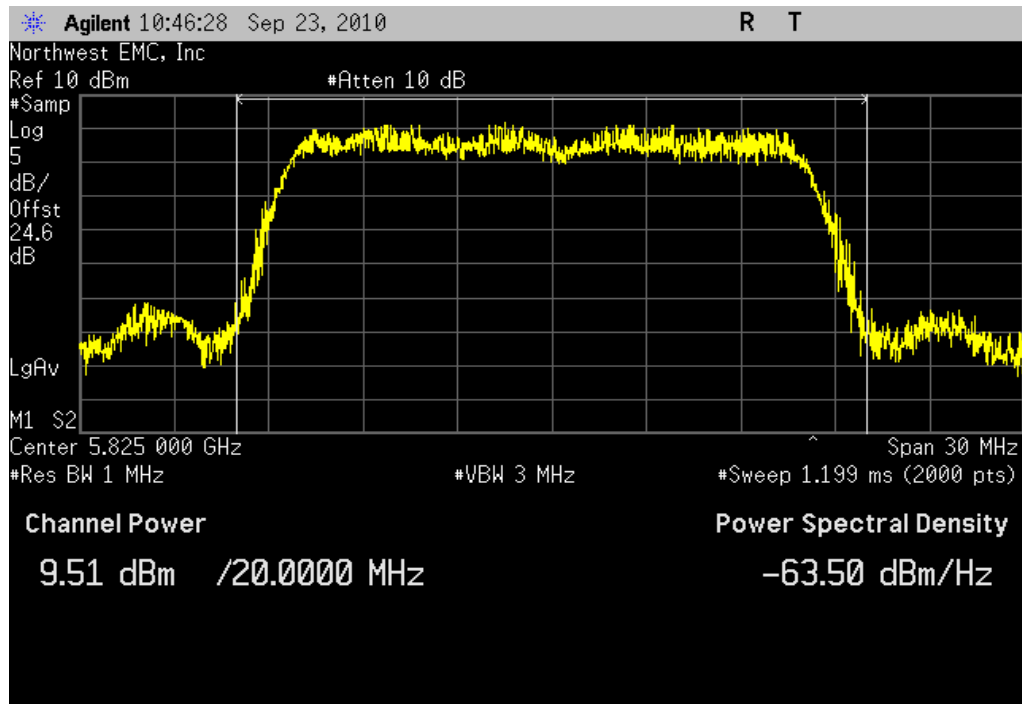
Result: Pass

Value: 9.9 dBm

Limit: 30 dBm



6 Mbps, High Channel 165, 5825 MHz

Result: Pass**Value:** 9.5 dBm**Limit:** 30 dBm

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 | E4440A | AFD | 6/1/2009 | 24 |
| 26 GHz DC Block, SMA | Pasternack | PE8210 | AME | 10/19/2009 | 13 |
| Attenuator 20 dB, SMA M/F 26GHz | S.M. Electronics | SA26B-20 | AUY | 8/6/2010 | 13 |
| EV06 Direct Connect Cable | ESM Cable Corp. | TT | ECA | NCR | 0 |

MEASUREMENT UNCERTAINTY

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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 available data rate.

The spectrum was scanned across each band edge from at least 40 MHz below the band edge to 40 MHz above the band edge.

EMC

BAND EDGE COMPLIANCE

| | | | |
|----------------|----------------------|-------------------|----------|
| EUT: | Silverton | Work Order: | FOCU0094 |
| Serial Number: | 2E | Date: | 09/23/10 |
| Customer: | Summit Semiconductor | Temperature: | 22°C |
| Attendees: | Ponnappa Pasura | Humidity: | 45% |
| Project: | None | Barometric Pres.: | 30.10 in |
| Tested by: | Rod Peloquin | Power: | 3.3 VDC |
| | | Job Site: | EV06 |

| | |
|---------------------|------------------|
| TEST SPECIFICATIONS | Test Method |
| FCC 15.247:2010 | ANSI C63.10:2009 |

COMMENTS

2.06 dB loss added for adapter cable and DC block. Transmitting with duty cycle noted elsewhere in report.

DEVIATIONS FROM TEST STANDARD

None

| | | |
|-----------------|---|---|
| Configuration # | 2 | Signature  |
|-----------------|---|---|

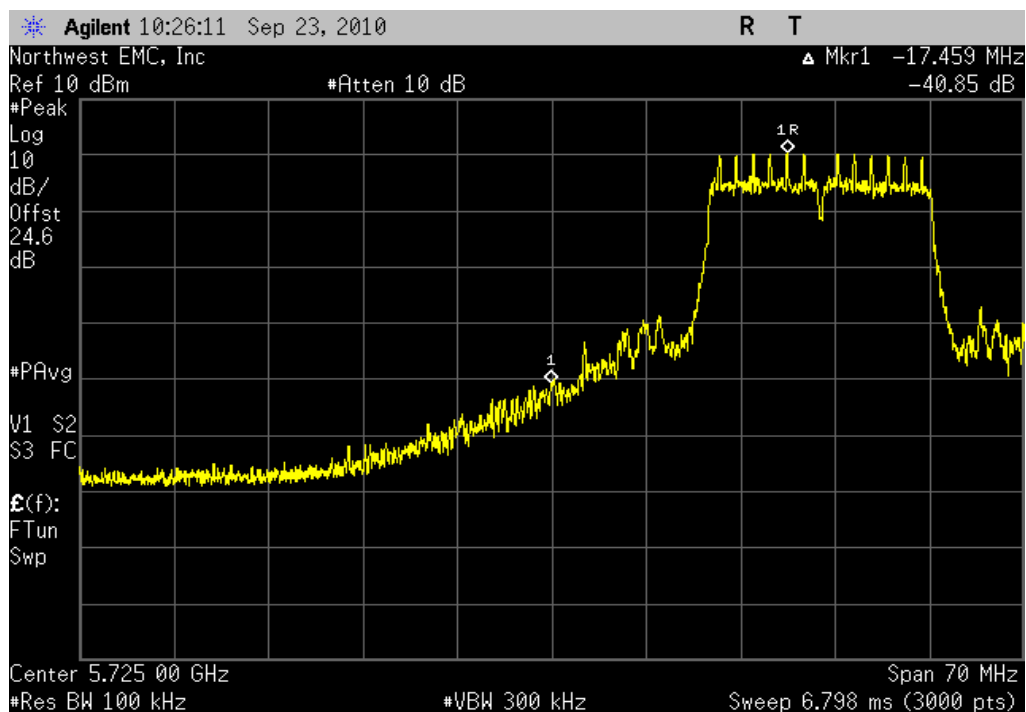
| | | Value | Limit | Results |
|--------|----------------------------|-----------|-----------|---------|
| 6 Mbps | Low Channel 149, 5745 MHz | -40.9 dBc | ≤ -20 dBc | Pass |
| | High Channel 165, 5825 MHz | -47.1 dBc | ≤ -20 dBc | Pass |

BAND EDGE COMPLIANCE

6 Mbps, Low Channel 149, 5745 MHz

Result: Pass

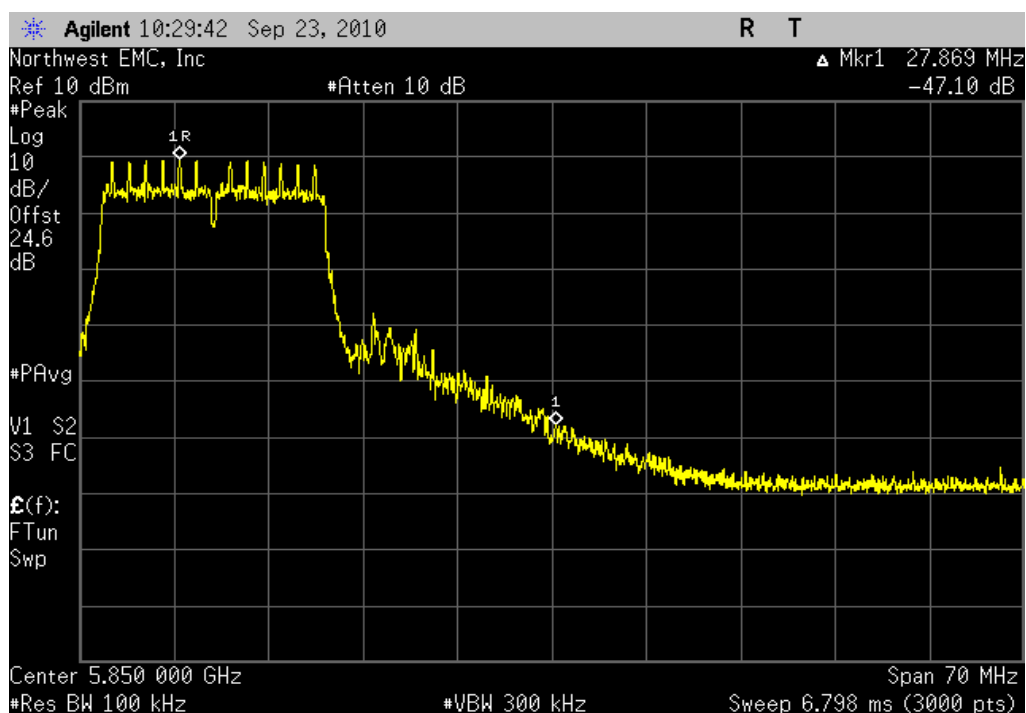
Value: -40.9 dBc

Limit: ≤ -20 dBc

6 Mbps, High Channel 165, 5825 MHz

Result: Pass

Value: -47.1 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 |
| Spectrum Analyzer | Agilent | E4446A | AAQ | 1/6/2010 | 12 |
| 40GHz DC Block | Miteq | DCB4000 | AMD | 8/5/2010 | 13 |
| Attenuator | Weinschel Corp. | 54A-20 | RBL | 10/9/2009 | 13 |
| EV06 Direct Connect Cable | ESM Cable Corp. | TT | ECA | 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 data rate of 6Mbps using OFDM type modulation. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

EMC

SPURIOUS CONDUCTED EMISSIONS

| | | | |
|----------------|----------------------|-------------------|----------|
| EUT: | Silverton | Work Order: | FOCU0094 |
| Serial Number: | 2E | Date: | 09/23/10 |
| Customer: | Summit Semiconductor | Temperature: | 22°C |
| Attendees: | None | Humidity: | 45% |
| Project: | None | Barometric Pres.: | 30.10 in |
| Tested by: | Rod Peloquin | Power: | 3.3 VDC |
| | | Job Site: | EV06 |

| | |
|---------------------|------------------|
| TEST SPECIFICATIONS | Test Method |
| FCC 15.247:2010 | ANSI C63.10:2009 |

COMMENTS

2.06 dB loss added for adapter cable and DC block. Transmitting with duty cycle noted elsewhere in report.

DEVIATIONS FROM TEST STANDARD

None

| | | |
|-----------------|---|---|
| Configuration # | 2 | Signature  |
|-----------------|---|---|

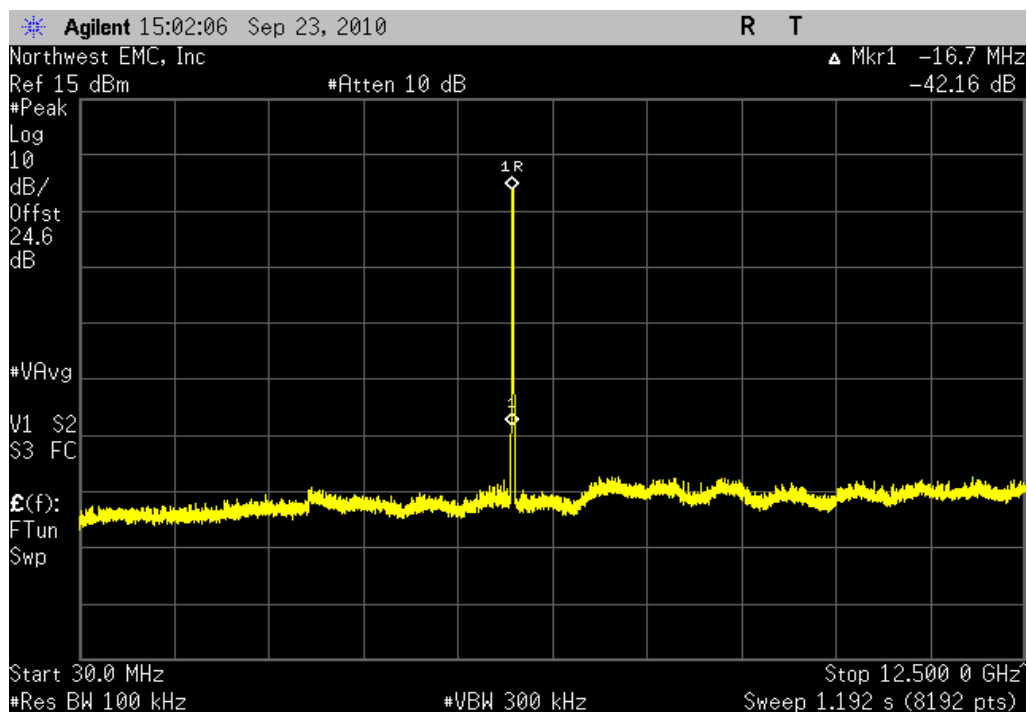
| | Value | Limit | Results |
|----------------------------|-----------|-----------|---------|
| 6 Mbps | | | |
| Low Channel 149, 5745 MHz | | | |
| 30 MHz - 12.5 GHz | -42.2 dBc | ≤ -20 dBc | Pass |
| 12.5 GHz - 26.5 GHz | -44.4 dBc | ≤ -20 dBc | Pass |
| 26.5 GHz - 31 GHz | -45.1 dBc | ≤ -20 dBc | Pass |
| 31 GHz - 40 GHz | -32.0 dBc | ≤ -20 dBc | Pass |
| Mid Channel 157, 5785 MHz | | | |
| 30 MHz - 12.5 GHz | -50.4 dBc | ≤ -20 dBc | Pass |
| 12.5 GHz - 26.5 GHz | -44.6 dBc | ≤ -20 dBc | Pass |
| 26.5 GHz - 31 GHz | -45.2 dBc | ≤ -20 dBc | Pass |
| 31 GHz - 40 GHz | -31.8 dBc | ≤ -20 dBc | Pass |
| High Channel 165, 5825 MHz | | | |
| 30 MHz - 12.5 GHz | -46.9 dBc | ≤ -20 dBc | Pass |
| 12.5 GHz - 26.5 GHz | -44.0 dBc | ≤ -20 dBc | Pass |
| 26.5 GHz - 31 GHz | -44.9 dBc | ≤ -20 dBc | Pass |
| 31 GHz - 40 GHz | -30.9 dBc | ≤ -20 dBc | Pass |

SPURIOUS CONDUCTED EMISSIONS

6 Mbps, Low Channel 149, 5745 MHz, 30 MHz - 12.5 GHz

Result: Pass

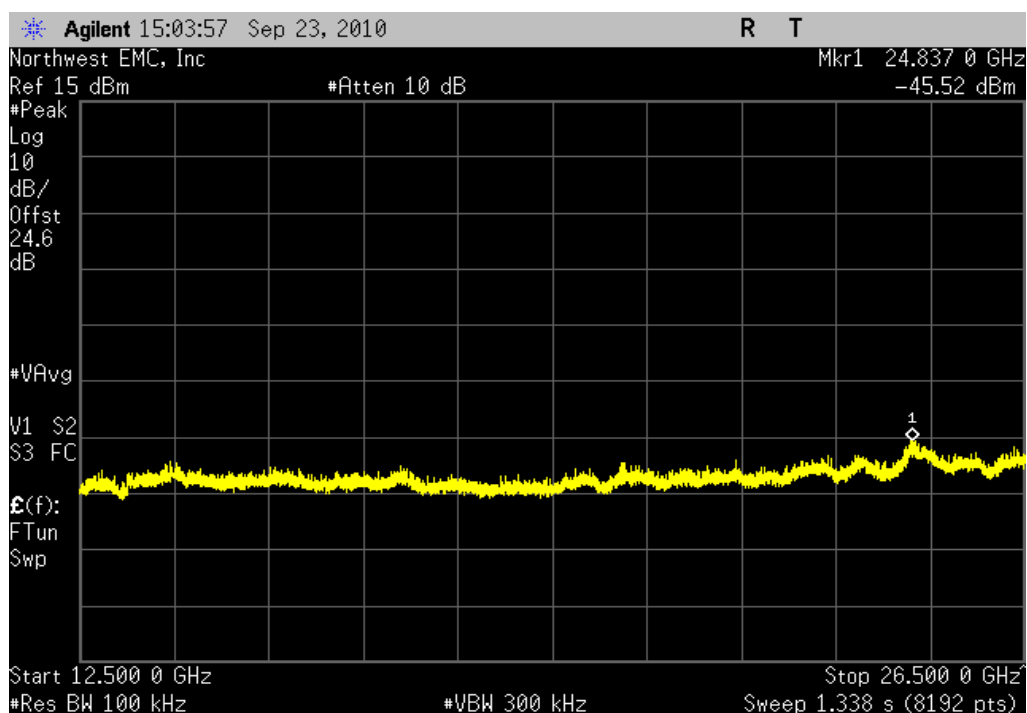
Value: -42.2 dBc

Limit: ≤ -20 dBc

6 Mbps, Low Channel 149, 5745 MHz, 12.5 GHz - 26.5 GHz

Result: Pass

Value: -44.4 dBc

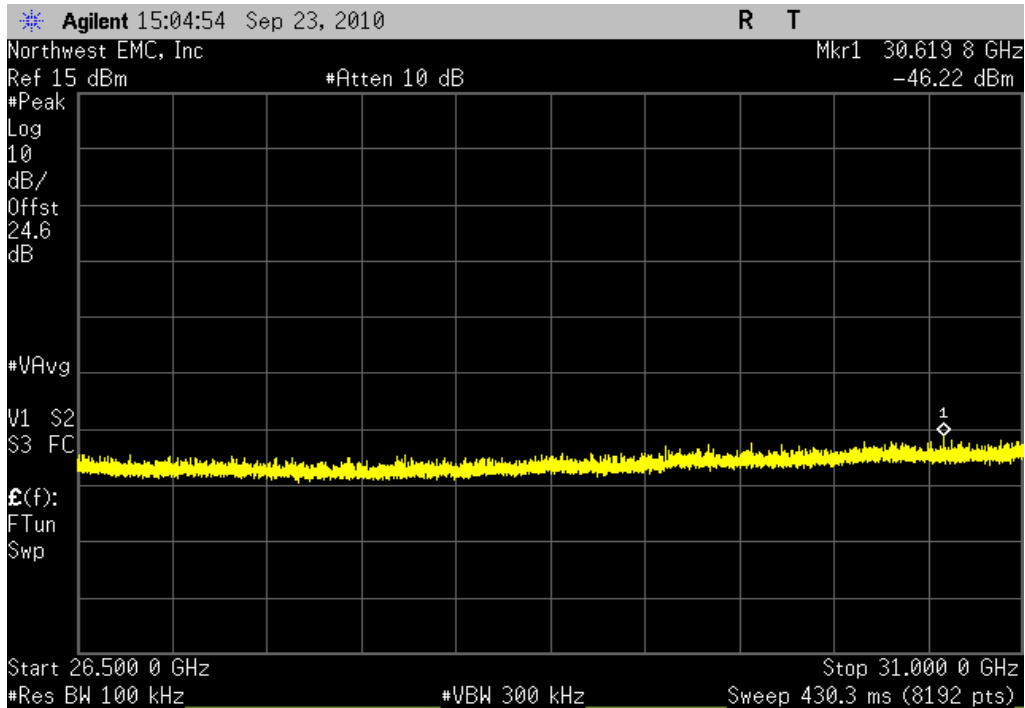
Limit: ≤ -20 dBc

SPURIOUS CONDUCTED EMISSIONS

6 Mbps, Low Channel 149, 5745 MHz, 26.5 GHz - 31 GHz

Result: Pass

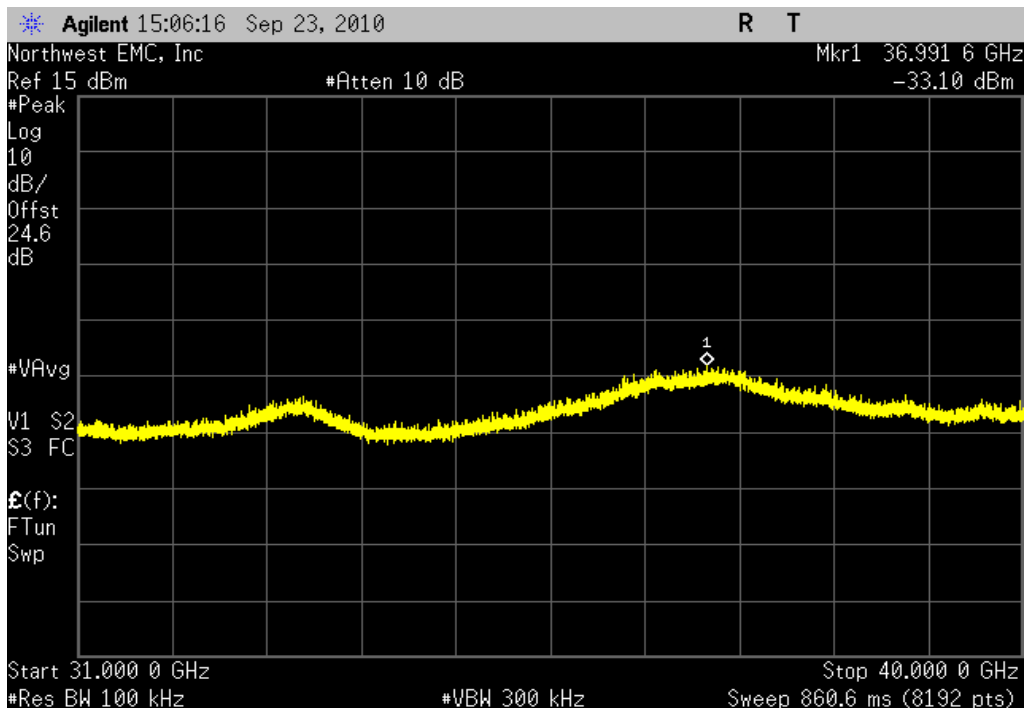
Value: -45.1 dBc

Limit: ≤ -20 dBc

6 Mbps, Low Channel 149, 5745 MHz, 31 GHz - 40 GHz

Result: Pass

Value: -32.0 dBc

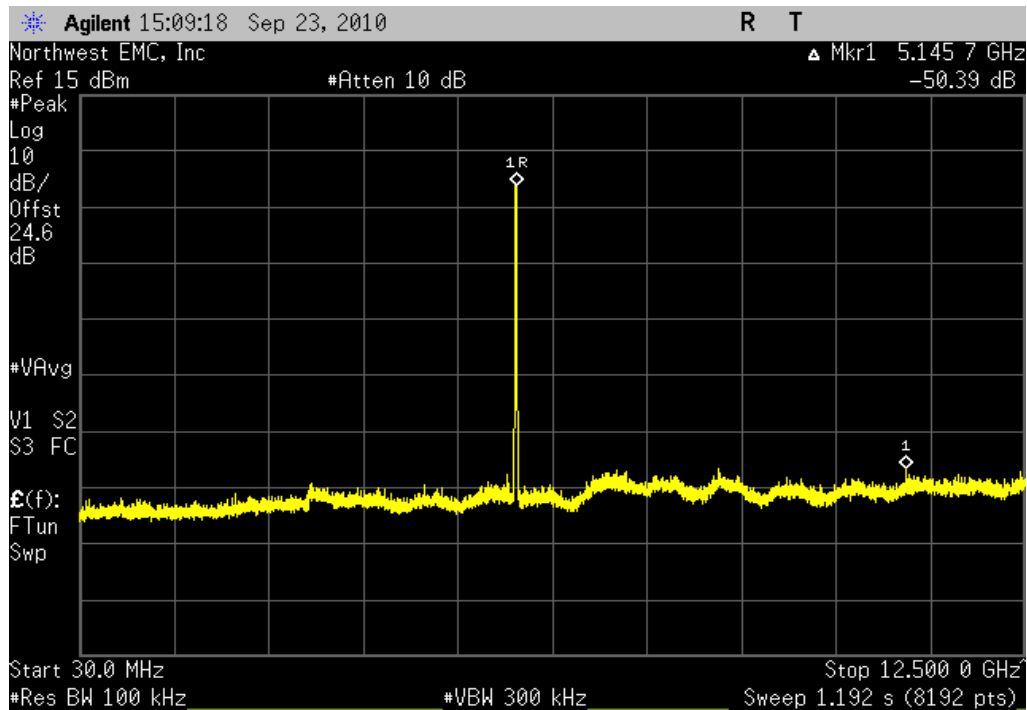
Limit: ≤ -20 dBc

SPURIOUS CONDUCTED EMISSIONS

6 Mbps, Mid Channel 157, 5785 MHz, 30 MHz - 12.5 GHz

Result: Pass

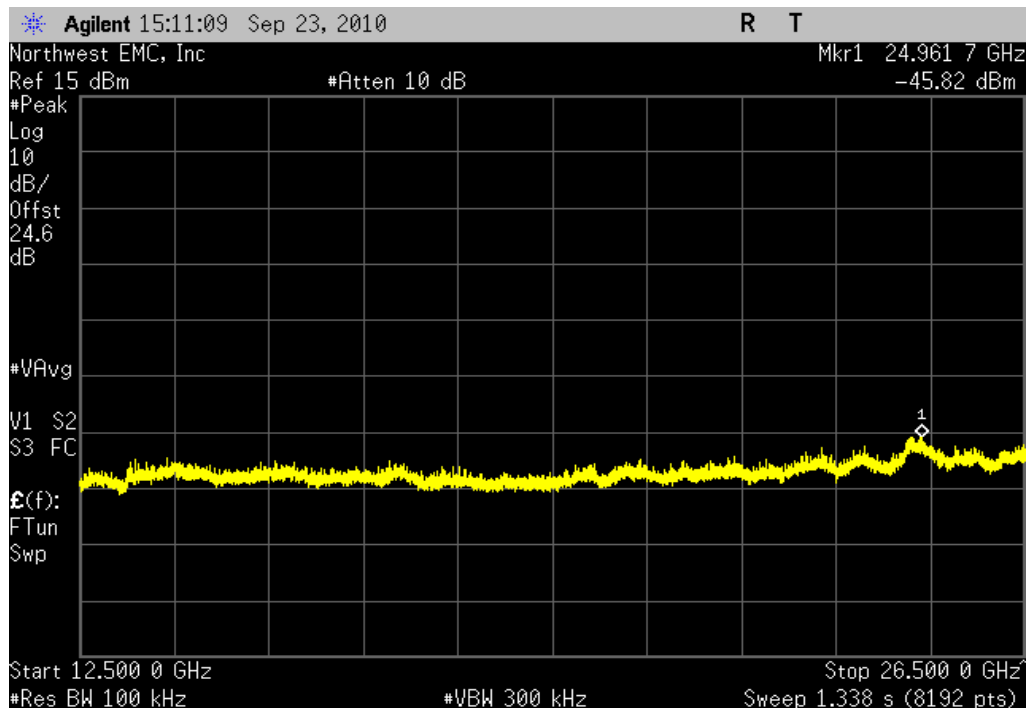
Value: -50.4 dBc

Limit: ≤ -20 dBc

6 Mbps, Mid Channel 157, 5785 MHz, 12.5 GHz - 26.5 GHz

Result: Pass

Value: -44.6 dBc

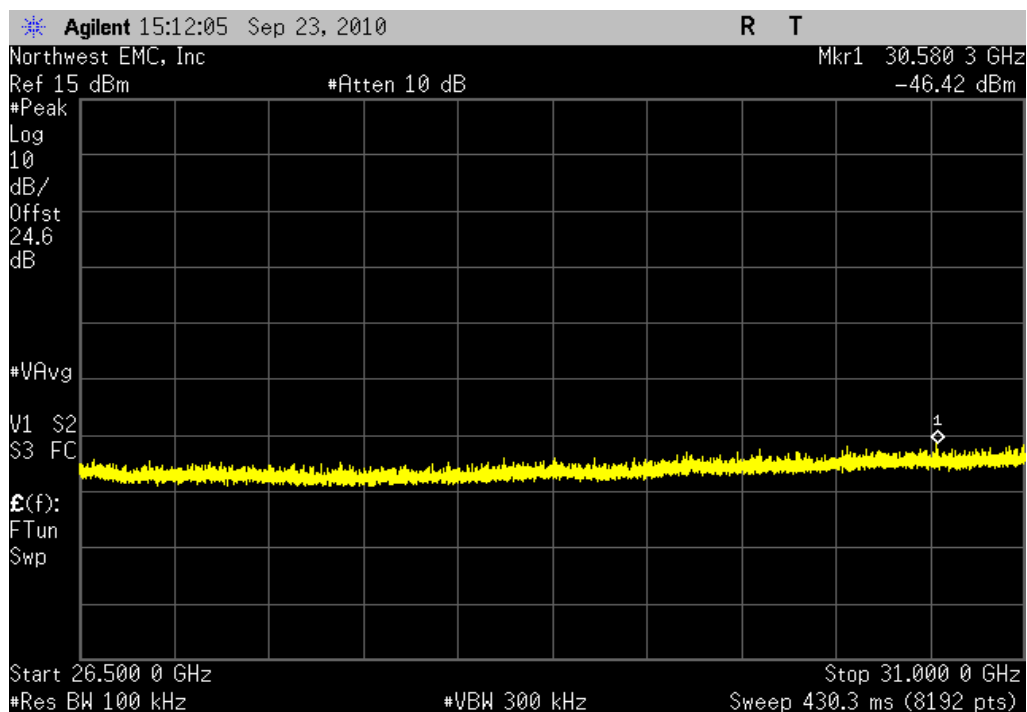
Limit: ≤ -20 dBc

SPURIOUS CONDUCTED EMISSIONS

6 Mbps, Mid Channel 157, 5785 MHz, 26.5 GHz - 31 GHz

Result: Pass

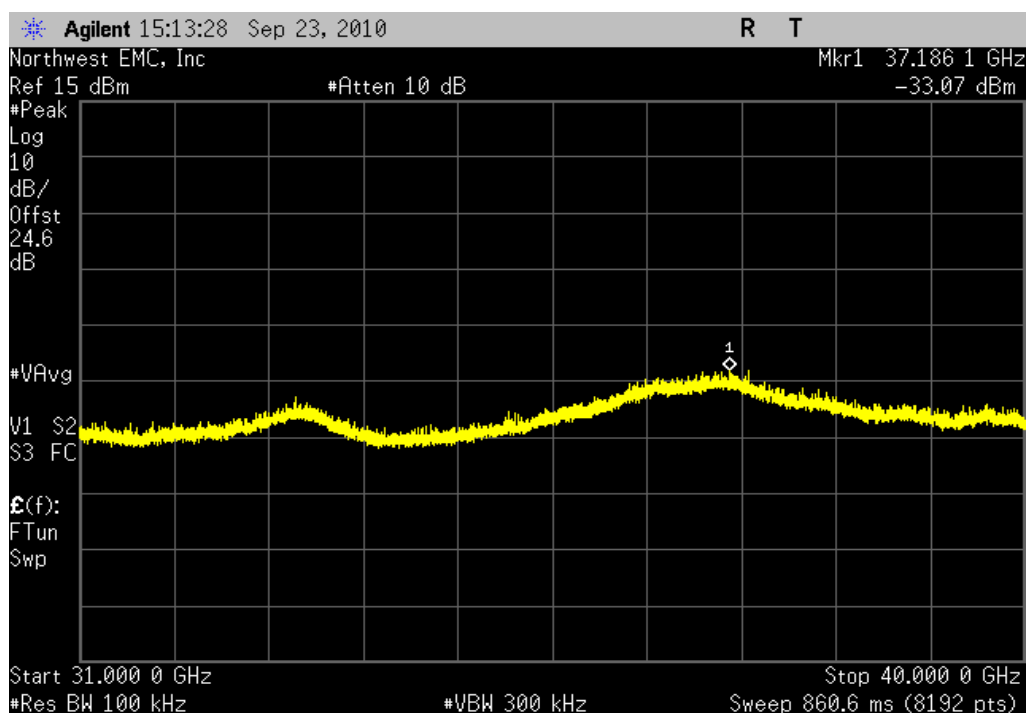
Value: -45.2 dBc

Limit: ≤ -20 dBc

6 Mbps, Mid Channel 157, 5785 MHz, 31 GHz - 40 GHz

Result: Pass

Value: -31.8 dBc

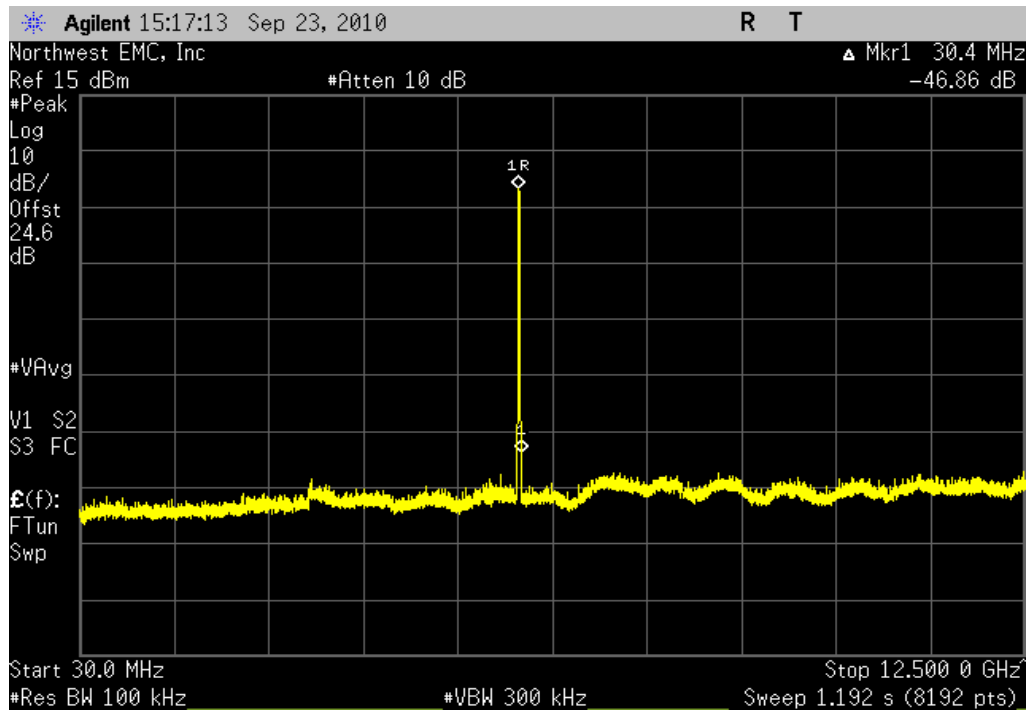
Limit: ≤ -20 dBc

SPURIOUS CONDUCTED EMISSIONS

6 Mbps, High Channel 165, 5825 MHz, 30 MHz - 12.5 GHz

Result: Pass

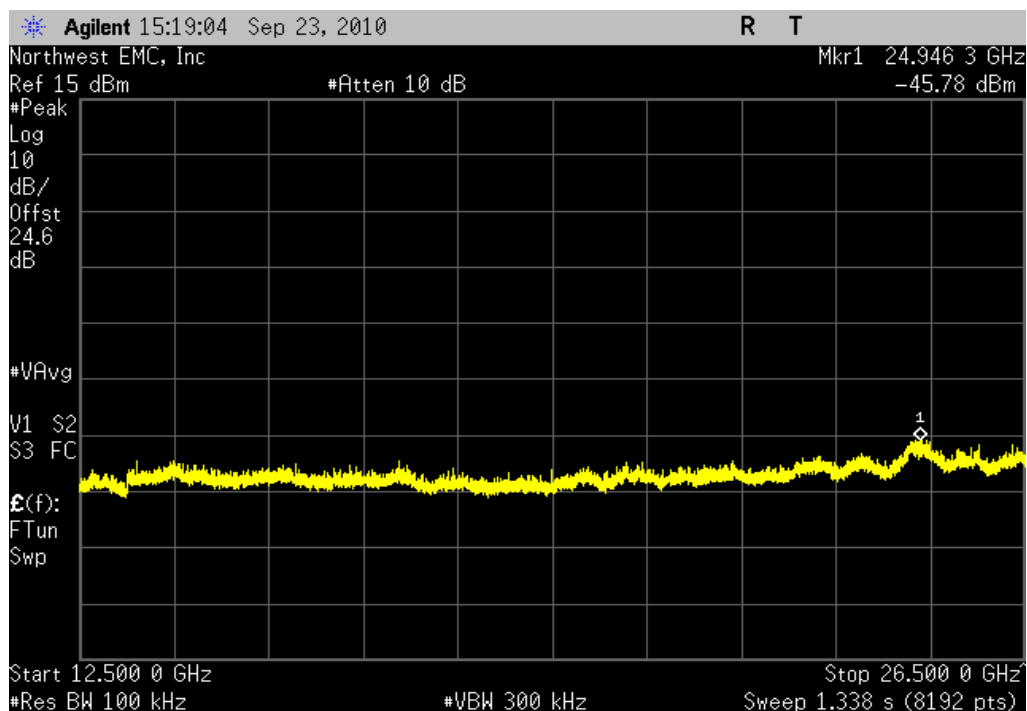
Value: -46.9 dBc

Limit: ≤ -20 dBc

6 Mbps, High Channel 165, 5825 MHz, 12.5 GHz - 26.5 GHz

Result: Pass

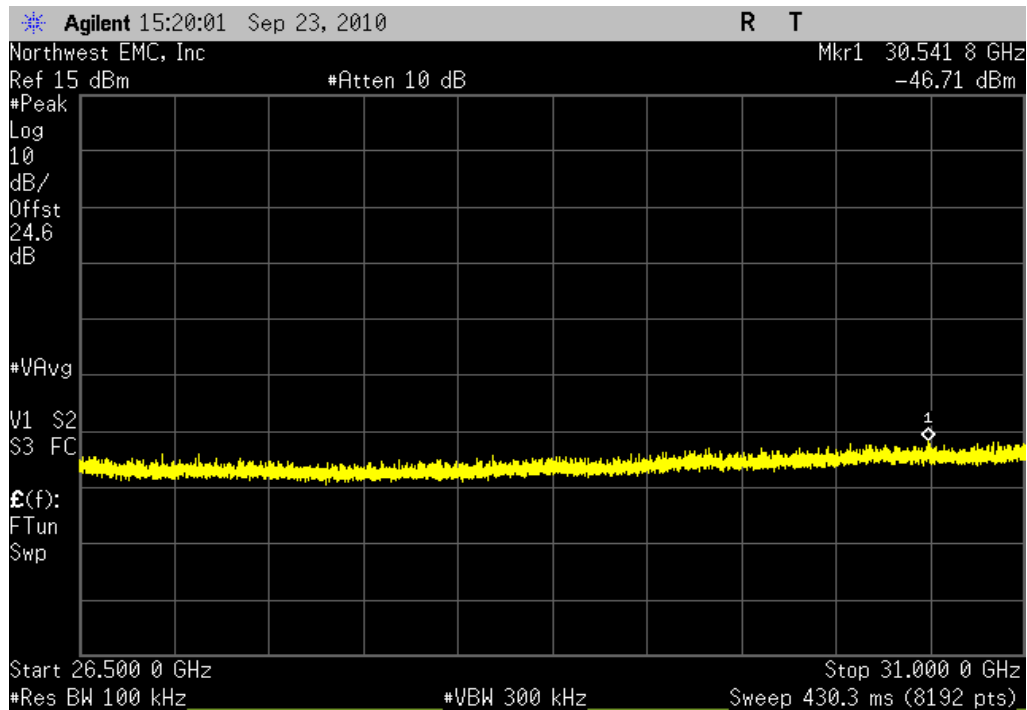
Value: -44.0 dBc

Limit: ≤ -20 dBc

6 Mbps, High Channel 165, 5825 MHz, 26.5 GHz - 31 GHz

Result: Pass

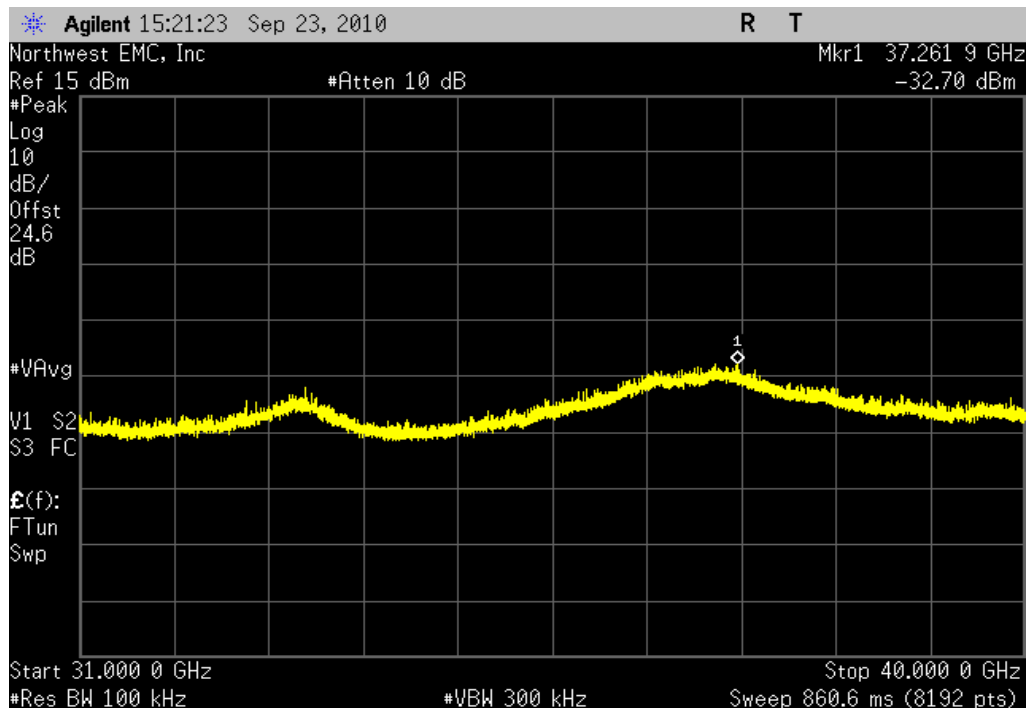
Value: -44.9 dBc

Limit: ≤ -20 dBc

6 Mbps, High Channel 165, 5825 MHz, 31 GHz - 40 GHz

Result: Pass

Value: -30.9 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 |
| Spectrum Analyzer | Agilent | E4440A | AFD | 6/1/2009 | 24 |
| 26 GHz DC Block, SMA | Pasternack | PE8210 | AME | 10/19/2009 | 13 |
| Attenuator 20 dB, SMA M/F 26GHz | S.M. Electronics | SA26B-20 | AUY | 8/6/2010 | 13 |
| EV06 Direct Connect Cable | ESM Cable Corp. | TT | ECA | NCR | 0 |
| Attenuator, 6 dB, 'SMA' | N/A | 93459 3330A-6 | AUF | 4/1/2010 | 13 |
| Power Meter | Gigatronics | 8651A | SPM | 1/7/2010 | 13 |
| Power Sensor | Gigatronics | 80701A | SPL | 1/7/2010 | 13 |
| Signal Generator | Agilent | E8257D | TGX | 12/10/2008 | 24 |

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

The 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 only available data rate using OFDM type of modulation. While the average output power was measured as defined in section ANSI C63.10:2009, Section 6.11.2.3 was followed.

The spectrum analyzer was set as follows:

The emission peak was located and zoomed in on within the passband.

a) RBW = 3 kHz

b) VBW = 10 kHz

c) Span = 300 kHz

d) Sweep time = 100s

e) Trace set to MAX

f) The 1 hz Marker Noise function on the analyzer was used. The data was corrected to 3 kHz by adding 34.8 dB to the reading.

EMC

POWER SPECTRAL DENSITY

| | | | |
|----------------|----------------------|-------------------|----------|
| EUT: | Silverton | Work Order: | FOCU0094 |
| Serial Number: | 2E | Date: | 09/23/10 |
| Customer: | Summit Semiconductor | Temperature: | 22°C |
| Attendees: | None | Humidity: | 45% |
| Project: | None | Barometric Pres.: | 30.10 in |
| Tested by: | Rod Peloquin | Power: | 3.3 VDC |
| | | Job Site: | EV06 |

| | |
|---------------------|------------------|
| TEST SPECIFICATIONS | Test Method |
| FCC 15.247:2010 | ANSI C63.10:2009 |

COMMENTS

2.06 dB loss added for adapter cable and DC block. Transmitting with duty cycle noted elsewhere in report.

DEVIATIONS FROM TEST STANDARD

None

| | | |
|-----------------|---|---|
| Configuration # | 2 | Signature  |
|-----------------|---|---|

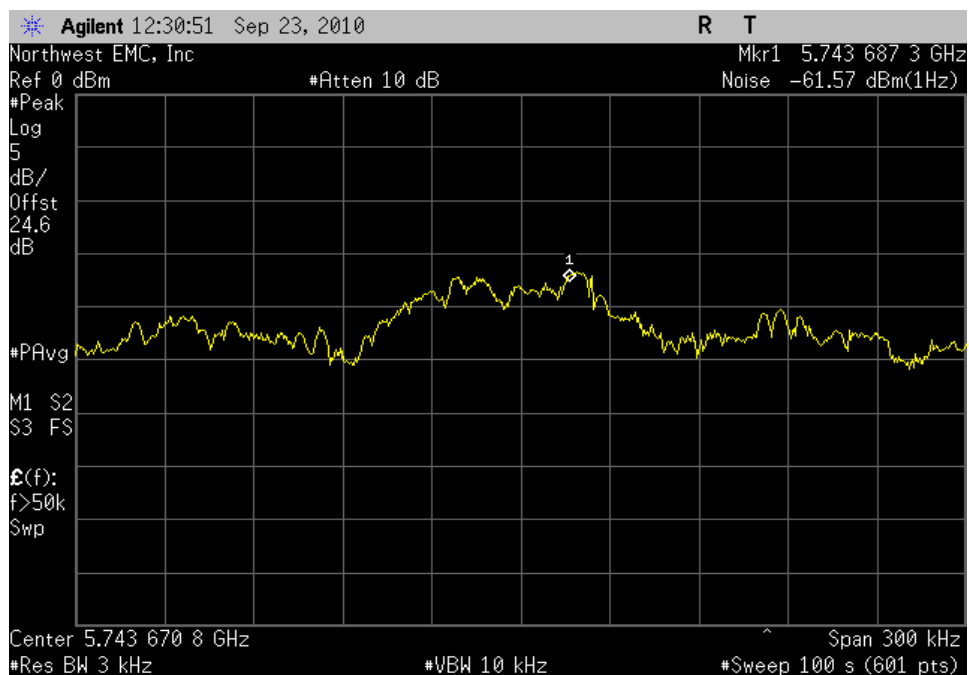
| | | Value | Limit | Results |
|--------|----------------------------|-------------------|---------------|---------|
| 6 Mbps | Low Channel 149, 5745 MHz | -26.8 dBm / 3 kHz | 8 dBm / 3 kHz | Pass |
| | Mid Channel 157, 5785 MHz | -27.6 dBm / 3 kHz | 8 dBm / 3 kHz | Pass |
| | High Channel 165, 5825 MHz | -28.3 dBm / 3 kHz | 8 dBm / 3 kHz | Pass |

6 Mbps, Low Channel 149, 5745 MHz

Result: Pass

Value: -26.8 dBm / 3 kHz

Limit: 8 dBm / 3 kHz

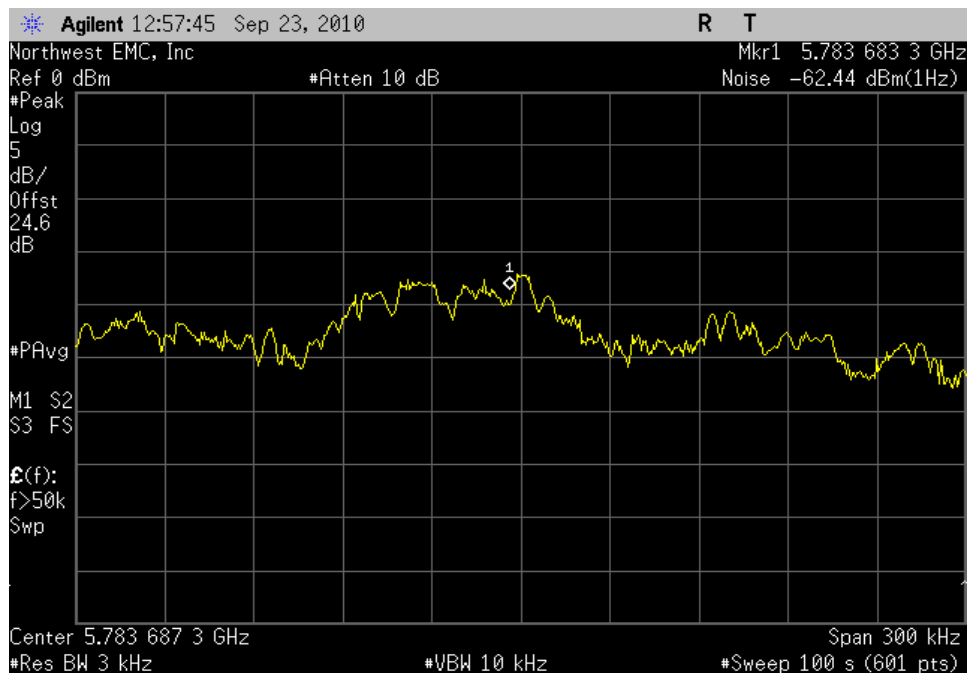


6 Mbps, Mid Channel 157, 5785 MHz

Result: Pass

Value: -27.6 dBm / 3 kHz

Limit: 8 dBm / 3 kHz

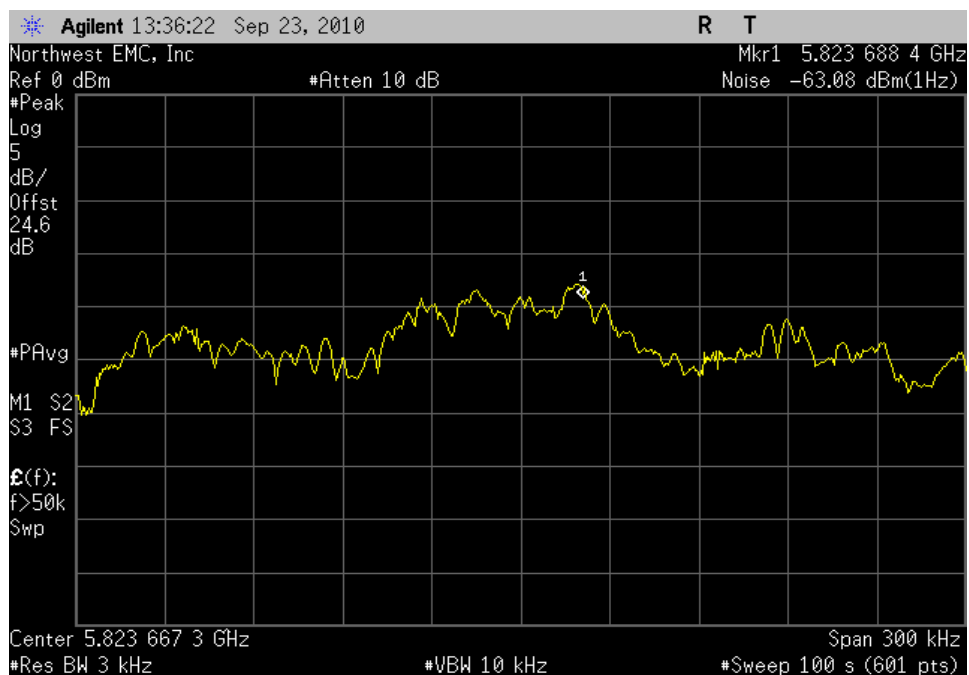


6 Mbps, High Channel 165, 5825 MHz

Result: Pass

Value: -28.3 dBm / 3 kHz

Limit: 8 dBm / 3 kHz



SPURIOUS RADIATED EMISSIONS

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

MODES OF OPERATION

Continuous Transmitting, 6 Mbps

CHANNELS TESTED

Channel 149 (5745 MHz)

Channel 157 (5785 MHz)

Channel 165 (5825 MHz)

POWER SETTINGS INVESTIGATED

3.3 VDC

FREQUENCY RANGE INVESTIGATED

| | | | |
|-----------------|--------|----------------|--------|
| Start Frequency | 30 MHz | Stop Frequency | 40 GHz |
|-----------------|--------|----------------|--------|

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 | AAQ | 1/6/2010 | 12 |
| EV06 Direct Connect Cable | ESM Cable Corp. | TT | ECA | NCR | 0 |
| Antenna, Horn | EMCO | 3115 | AHE | 10/22/2009 | 24 |
| Pre-Amplifier | Miteq | AM-1616-1000 | AOL | 7/9/2010 | 13 |
| Antenna, Biconilog | EMCO | 3141 | AXE | 1/14/2010 | 13 |
| EV01 Cables | N/A | Bilog Cables | EVA | 7/9/2010 | 13 |
| High Pass Filter | Micro-Tronics | HPM50112 | HGA | 10/1/2009 | 13 |
| 5.725-5.875 Notch Filter | Micro-Tronics | BRC50705 | HGJ | 8/6/2010 | 13 |
| Pre-Amplifier | Miteq | AMF-4D-010100-24-10P | APW | 7/9/2010 | 13 |
| Antenna, Horn | EMCO | 3115 | AHC | 7/8/2010 | 24 |
| EV01 Cables | N/A | Double Ridge Horn Cables | EVB | 7/9/2010 | 13 |
| Pre-Amplifier | Miteq | AMF-6F-08001200-30-10P | AVC | 8/25/2010 | 13 |
| Antenna, Horn | ETS | 3160-07 | AHU | NCR | 0 |
| Pre-Amplifier | Miteq | AMF-6F-12001800-30-10P | AVD | 8/25/2010 | 13 |
| Antenna, Horn | ETS | 3160-08 | AHV | NCR | 0 |
| EV01 Cables | N/A | Standard Gain Horns Cables | EVF | 8/25/2010 | 13 |
| Pre-Amplifier | Miteq | AMF-6F-18002650-25-10P | AVU | 9/15/2010 | 13 |
| Antenna, Horn | ETS | 3160-10 | AIC | NCR | 0 |
| Cable | ESM Cable Corp. | KMKM-72 | EVY | 9/15/2010 | 13 |
| Pre-Amplifier | Miteq | JSW45-26004000-40-5P | AVR | 6/22/2010 | 13 |
| Antenna, Horn | ETS Lindgren | 3160-10 | AIW | NCR | 0 |
| OC Cable | ESM Cable Corp. | KMKM-72 | OCV | 11/3/2009 | 13 |

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 |


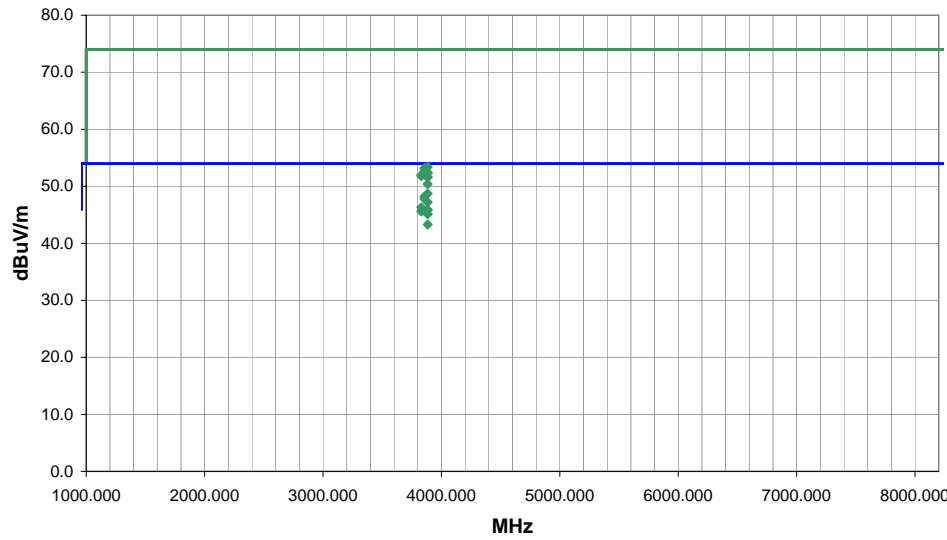
Measurements were made using the bandwidths and detectors specified. No video filter was used.


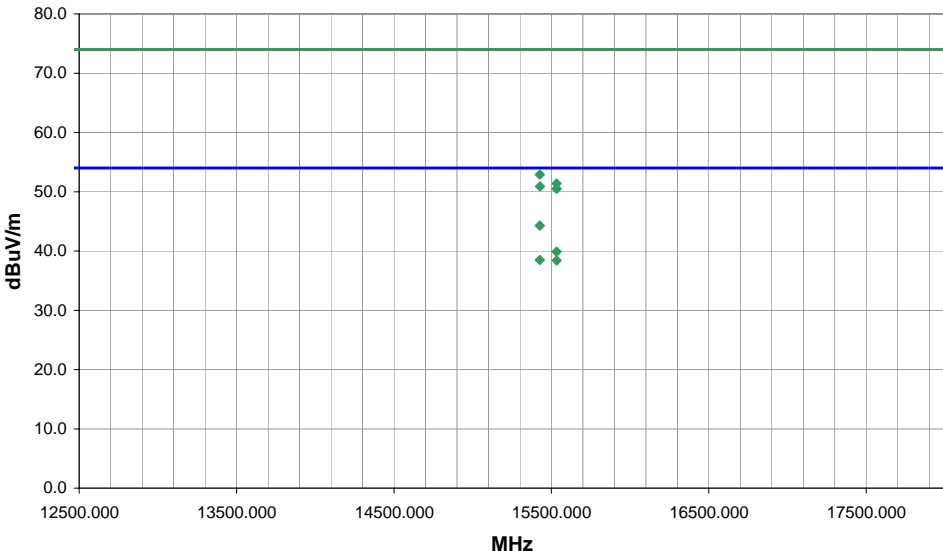
MEASUREMENT UNCERTAINTY


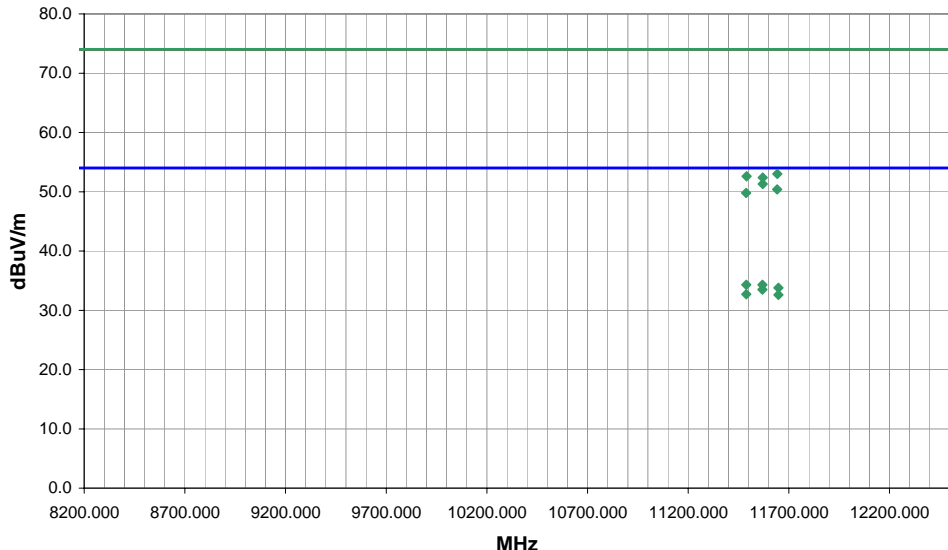
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. The measurement uncertainty estimation 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 C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

| NORTHWEST EMC | | | | | | | | | | PSA 2008.07.21 EMI 2008.1.9 | | | | | | | | | |
|---|------------------|-------------|-------------------|-----------------|---|---------------------------|----------|----------|--------------------------|--------------------------------|--------------------|------------------------|-----------------------------|--|---|--|--|--|--|
| SPURIOUS RADIATED EMISSIONS | | | | | | | | | | | | | | | | | | | |
| EUT: Silverton | | | | | Work Order: FOCU0094 | | | | | | | | | | | | | | |
| Serial Number: 2C | | | | | Date: 09/27/10 | | | | | | | | | | | | | | |
| Customer: Summit Semiconductor | | | | | Temperature: 22.7 °C | | | | | | | | | | | | | | |
| Attendees: None | | | | | Humidity: 46% | | | | | | | | | | | | | | |
| Project: None | | | | | Barometric Pres.: 1016.6 mb | | | | | | | | | | | | | | |
| Tested by: Rod Peloquin | | | | | Power: 3.3 VDC | | | | | Job Site: EV01 | | | | | | | | | |
| TEST SPECIFICATIONS | | | | | | | | | | Test Method | | | | | | | | | |
| FCC 15.209:2010 | | | | | | | | | | ANSI C63.10:2009 | | | | | | | | | |
| TEST PARAMETERS | | | | | | | | | | | | | | | | | | | |
| Antenna Height(s) (m) | | | | | 1 - 4 | | | | | Test Distance (m) | | | | | 3 | | | | |
| COMMENTS | | | | | | | | | | | | | | | | | | | |
| 36 inch I/O cable | | | | | | | | | | | | | | | | | | | |
| EUT OPERATING MODES | | | | | | | | | | | | | | | | | | | |
| Continuous Transmitting, 6 Mbps | | | | | | | | | | | | | | | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | | | | | | | | | | | | | | | |
| No deviations. | | | | | | | | | | | | | | | | | | | |
| Run # | | 6 | | |  Signature | | | | | | | | | | | | | | |
| Configuration # | | 1 | | | | | | | | | | | | | | | | | |
| 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 | | | | | | |
| 3883.346 | 40.1 | 8.6 | 313.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 48.7 | 54.0 | -5.3 | Channel 165, EUT horizontal | | | | | | |
| 3856.676 | 39.8 | 8.4 | 313.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 48.2 | 54.0 | -5.8 | Channel 157, EUT horizontal | | | | | | |
| 3856.687 | 39.4 | 8.4 | 110.0 | 1.3 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 47.8 | 54.0 | -6.2 | Channel 157, EUT SN down | | | | | | |
| 3883.330 | 38.6 | 8.6 | 81.0 | 1.3 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 47.2 | 54.0 | -6.8 | Channel 165, EUT SN down | | | | | | |
| 3830.010 | 37.9 | 8.4 | 307.0 | 1.2 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 46.3 | 54.0 | -7.7 | Channel 149, EUT horizontal | | | | | | |
| 3883.330 | 37.3 | 8.6 | 18.0 | 1.1 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 45.9 | 54.0 | -8.1 | Channel 165, EUT SN on side | | | | | | |
| 3883.349 | 37.2 | 8.6 | 66.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 45.8 | 54.0 | -8.2 | Channel 165, EUT SN down | | | | | | |
| 3830.001 | 37.2 | 8.4 | 107.0 | 1.5 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 45.6 | 54.0 | -8.4 | Channel 149, EUT SN down | | | | | | |
| 3883.342 | 36.5 | 8.6 | 175.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 45.1 | 54.0 | -8.9 | Channel 165, EUT SN on side | | | | | | |
| 3883.320 | 34.7 | 8.6 | 268.0 | 1.9 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 43.3 | 54.0 | -10.7 | Channel 165, EUT horizontal | | | | | | |
| 3883.256 | 44.8 | 8.6 | 313.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 53.4 | 74.0 | -20.6 | Channel 165, EUT horizontal | | | | | | |
| 3856.576 | 44.8 | 8.4 | 313.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 53.2 | 74.0 | -20.8 | Channel 157, EUT horizontal | | | | | | |
| 3856.740 | 44.3 | 8.4 | 110.0 | 1.3 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 52.7 | 74.0 | -21.3 | Channel 157, EUT SN down | | | | | | |
| 3883.324 | 43.8 | 8.6 | 18.0 | 1.1 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 52.4 | 74.0 | -21.6 | Channel 165, EUT SN on side | | | | | | |
| 3883.264 | 43.7 | 8.6 | 81.0 | 1.3 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 52.3 | 74.0 | -21.7 | Channel 165, EUT SN down | | | | | | |
| 3829.980 | 43.6 | 8.4 | 307.0 | 1.2 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 52.0 | 74.0 | -22.0 | Channel 149, EUT horizontal | | | | | | |
| 3830.054 | 43.4 | 8.4 | 107.0 | 1.5 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 51.8 | 74.0 | -22.2 | Channel 149, EUT SN down | | | | | | |
| 3883.096 | 43.0 | 8.6 | 175.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 51.6 | 74.0 | -22.4 | Channel 165, EUT SN on side | | | | | | |
| 3883.176 | 43.0 | 8.6 | 66.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 51.6 | 74.0 | -22.4 | Channel 165, EUT SN down | | | | | | |
| 3883.354 | 41.8 | 8.6 | 268.0 | 1.9 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 50.4 | 74.0 | -23.6 | Channel 165, EUT horizontal | | | | | | |

| NORTHWEST EMC | | | | | | | | | | SPURIOUS RADIATED EMISSIONS | | | | | | | | | | PSA 2008.07.21 EMI 2008.1.9 | |
|---|------------------|-------------|-------------------|---|-------------------|---------------------------|----------|----------|--------------------------|-----------------------------|--------------------|------------------------|--------------------------|--|---|--|--|--|--|--------------------------------|--|
| EUT: Silverton | | | | | | | | | | Work Order: FOCU0094 | | | | | | | | | | | |
| Serial Number: 2C | | | | | | | | | | Date: 09/27/10 | | | | | | | | | | | |
| Customer: Summit Semiconductor | | | | | | | | | | Temperature: 22.7 °C | | | | | | | | | | | |
| Attendees: None | | | | | | | | | | Humidity: 46% | | | | | | | | | | | |
| Project: None | | | | | | | | | | Barometric Pres.: 1016.6 mb | | | | | | | | | | | |
| Tested by: Rod Peloquin | | | | | Power: 3.3 VDC | | | | | Job Site: EV01 | | | | | | | | | | | |
| TEST SPECIFICATIONS | | | | | | | | | | Test Method | | | | | | | | | | | |
| FCC 15.209:2010 | | | | | | | | | | ANSI C63.10:2009 | | | | | | | | | | | |
| TEST PARAMETERS | | | | | | | | | | | | | | | | | | | | | |
| Antenna Height(s) (m) | | | | | 1 - 4 | | | | | Test Distance (m) | | | | | 3 | | | | | | |
| COMMENTS | | | | | | | | | | | | | | | | | | | | | |
| 36 inch I/O cable | | | | | | | | | | | | | | | | | | | | | |
| EUT OPERATING MODES | | | | | | | | | | | | | | | | | | | | | |
| Continuous Transmitting, 6 Mbps | | | | | | | | | | | | | | | | | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | | | | | | | | | | | | | | | | | |
| No deviations. | | | | | | | | | | | | | | | | | | | | | |
| Run # | | 4 | | <div style="text-align: right;">  Signature </div> | | | | | | | | | | | | | | | | | |
| Configuration # | | 1 | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | |
| 15426.610 | 36.0 | 8.3 | 130.0 | 1.5 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 44.3 | 54.0 | -9.7 | Channel 157, EUT SN down | | | | | | | | |
| 15533.270 | 31.2 | 8.7 | 190.0 | 1.1 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 39.9 | 54.0 | -14.1 | Channel 165, EUT SN down | | | | | | | | |
| 15426.550 | 30.2 | 8.3 | 184.0 | 1.3 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 38.5 | 54.0 | -15.5 | Channel 157, EUT SN down | | | | | | | | |
| 15533.240 | 29.7 | 8.7 | 116.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 38.4 | 54.0 | -15.6 | Channel 165, EUT SN down | | | | | | | | |
| 15426.530 | 44.6 | 8.3 | 130.0 | 1.5 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 52.9 | 74.0 | -21.1 | Channel 157, EUT SN down | | | | | | | | |
| 15533.190 | 42.7 | 8.7 | 190.0 | 1.1 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 51.4 | 74.0 | -22.6 | Channel 165, EUT SN down | | | | | | | | |
| 15426.970 | 42.6 | 8.3 | 184.0 | 1.3 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 50.9 | 74.0 | -23.1 | Channel 157, EUT SN down | | | | | | | | |
| 15533.270 | 41.8 | 8.7 | 116.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 50.5 | 74.0 | -23.5 | Channel 165, EUT SN down | | | | | | | | |

| NORTHWEST | | PSA 2008.07.21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|---|-------------------|-----------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|------------------------|--------------------------|------------------|-------------|-------------------|-----------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|------------------------|----------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------------|-----------|------|------|-------|-----|-----|-----|--------|----|-----|------|------|-------|--------------------------|
| EMC | | SPURIOUS RADIATED EMISSIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUT: Silverton | | Work Order: FOCU0094 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial Number: 2C | | Date: 09/27/10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Customer: Summit Semiconductor | | Temperature: 22.7 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Attendees: None | | Humidity: 46% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project: None | | Barometric Pres.: 1016.6 mb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tested by: Rod Peloquin | | Power: 3.3 VDC | Job Site: EV01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST SPECIFICATIONS | | Test Method | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FCC 15.209:2010 | | ANSI C63.10:2009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST PARAMETERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna Height(s) (m) | 1 - 4 | Test Distance (m) | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 inch I/O cable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUT OPERATING MODES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Continuous Transmitting, 6 Mbps | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DEVIATIONS FROM TEST STANDARD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No deviations. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Run # | 5 |  Signature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Configuration # | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Results | Pass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Freq (MHz)</th> <th>Amplitude (dBuV)</th> <th>Factor (dB)</th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th>Distance (meters)</th> <th>External Attenuation (dB)</th> <th>Polarity</th> <th>Detector</th> <th>Distance Adjustment (dB)</th> <th>Adjusted dBuV/m</th> <th>Spec. Limit dBuV/m</th> <th>Compared to Spec. (dB)</th> <th>Comments</th> </tr> </thead> <tbody> <tr><td>11568.500</td><td>40.7</td><td>-6.4</td><td>112.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>34.3</td><td>54.0</td><td>-19.7</td><td>Channel 157, EUT SN down</td></tr> <tr><td>11488.400</td><td>41.1</td><td>-6.8</td><td>113.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>34.3</td><td>54.0</td><td>-19.7</td><td>Channel 149, EUT SN down</td></tr> <tr><td>11648.450</td><td>39.8</td><td>-6.0</td><td>112.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>AV</td><td>0.0</td><td>33.8</td><td>54.0</td><td>-20.2</td><td>Channel 165, EUT SN down</td></tr> <tr><td>11568.450</td><td>39.9</td><td>-6.4</td><td>195.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>33.5</td><td>54.0</td><td>-20.5</td><td>Channel 157, EUT SN down</td></tr> <tr><td>11642.250</td><td>59.0</td><td>-6.0</td><td>112.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>53.0</td><td>74.0</td><td>-21.0</td><td>Channel 165, EUT SN down</td></tr> <tr><td>11488.500</td><td>39.5</td><td>-6.8</td><td>321.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>32.7</td><td>54.0</td><td>-21.3</td><td>Channel 149, EUT SN down</td></tr> <tr><td>11489.900</td><td>59.4</td><td>-6.8</td><td>113.0</td><td>1.1</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>52.6</td><td>74.0</td><td>-21.4</td><td>Channel 149, EUT SN down</td></tr> <tr><td>11648.300</td><td>38.6</td><td>-6.0</td><td>187.0</td><td>1.4</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>AV</td><td>0.0</td><td>32.6</td><td>54.0</td><td>-21.4</td><td>Channel 165, EUT SN down</td></tr> <tr><td>11570.350</td><td>58.8</td><td>-6.4</td><td>112.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>V-Horn</td><td>PK</td><td>0.0</td><td>52.4</td><td>74.0</td><td>-21.6</td><td>Channel 157, EUT SN down</td></tr> <tr><td>11570.150</td><td>57.7</td><td>-6.4</td><td>195.0</td><td>1.2</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>51.3</td><td>74.0</td><td>-22.7</td><td>Channel 157, EUT SN down</td></tr> <tr><td>11641.800</td><td>56.4</td><td>-6.0</td><td>187.0</td><td>1.4</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>50.4</td><td>74.0</td><td>-23.6</td><td>Channel 165, EUT SN down</td></tr> <tr><td>11487.900</td><td>56.6</td><td>-6.8</td><td>321.0</td><td>1.0</td><td>3.0</td><td>0.0</td><td>H-Horn</td><td>PK</td><td>0.0</td><td>49.8</td><td>74.0</td><td>-24.2</td><td>Channel 149, EUT SN down</td></tr> </tbody> </table> | | | | | | | | | | | | | 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 | 11568.500 | 40.7 | -6.4 | 112.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 34.3 | 54.0 | -19.7 | Channel 157, EUT SN down | 11488.400 | 41.1 | -6.8 | 113.0 | 1.1 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 34.3 | 54.0 | -19.7 | Channel 149, EUT SN down | 11648.450 | 39.8 | -6.0 | 112.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 33.8 | 54.0 | -20.2 | Channel 165, EUT SN down | 11568.450 | 39.9 | -6.4 | 195.0 | 1.2 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 33.5 | 54.0 | -20.5 | Channel 157, EUT SN down | 11642.250 | 59.0 | -6.0 | 112.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 53.0 | 74.0 | -21.0 | Channel 165, EUT SN down | 11488.500 | 39.5 | -6.8 | 321.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 32.7 | 54.0 | -21.3 | Channel 149, EUT SN down | 11489.900 | 59.4 | -6.8 | 113.0 | 1.1 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 52.6 | 74.0 | -21.4 | Channel 149, EUT SN down | 11648.300 | 38.6 | -6.0 | 187.0 | 1.4 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 32.6 | 54.0 | -21.4 | Channel 165, EUT SN down | 11570.350 | 58.8 | -6.4 | 112.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 52.4 | 74.0 | -21.6 | Channel 157, EUT SN down | 11570.150 | 57.7 | -6.4 | 195.0 | 1.2 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 51.3 | 74.0 | -22.7 | Channel 157, EUT SN down | 11641.800 | 56.4 | -6.0 | 187.0 | 1.4 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 50.4 | 74.0 | -23.6 | Channel 165, EUT SN down | 11487.900 | 56.6 | -6.8 | 321.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 49.8 | 74.0 | -24.2 | Channel 149, EUT SN down |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11568.500 | 40.7 | -6.4 | 112.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 34.3 | 54.0 | -19.7 | Channel 157, EUT SN down | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11488.400 | 41.1 | -6.8 | 113.0 | 1.1 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 34.3 | 54.0 | -19.7 | Channel 149, EUT SN down | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11648.450 | 39.8 | -6.0 | 112.0 | 1.0 | 3.0 | 0.0 | V-Horn | AV | 0.0 | 33.8 | 54.0 | -20.2 | Channel 165, EUT SN down | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11568.450 | 39.9 | -6.4 | 195.0 | 1.2 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 33.5 | 54.0 | -20.5 | Channel 157, EUT SN down | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11642.250 | 59.0 | -6.0 | 112.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 53.0 | 74.0 | -21.0 | Channel 165, EUT SN down | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11488.500 | 39.5 | -6.8 | 321.0 | 1.0 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 32.7 | 54.0 | -21.3 | Channel 149, EUT SN down | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11489.900 | 59.4 | -6.8 | 113.0 | 1.1 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 52.6 | 74.0 | -21.4 | Channel 149, EUT SN down | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11648.300 | 38.6 | -6.0 | 187.0 | 1.4 | 3.0 | 0.0 | H-Horn | AV | 0.0 | 32.6 | 54.0 | -21.4 | Channel 165, EUT SN down | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11570.350 | 58.8 | -6.4 | 112.0 | 1.0 | 3.0 | 0.0 | V-Horn | PK | 0.0 | 52.4 | 74.0 | -21.6 | Channel 157, EUT SN down | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11570.150 | 57.7 | -6.4 | 195.0 | 1.2 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 51.3 | 74.0 | -22.7 | Channel 157, EUT SN down | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11641.800 | 56.4 | -6.0 | 187.0 | 1.4 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 50.4 | 74.0 | -23.6 | Channel 165, EUT SN down | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11487.900 | 56.6 | -6.8 | 321.0 | 1.0 | 3.0 | 0.0 | H-Horn | PK | 0.0 | 49.8 | 74.0 | -24.2 | Channel 149, EUT SN down | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

Continuous transmit. 6 Mbps, Channel 165 (5825 MHz)
 Continuous transmit. 6 Mbps, Channel 157 (5785 MHz)
 Continuous transmit. 6 Mbps, Channel 149 (5745 MHz)

POWER SETTINGS INVESTIGATED

3.3 VDC

CONFIGURATIONS INVESTIGATED

FOCU0094 - 3

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 | ARE | 4/29/2010 | 12 mo |
| Attenuator | Coaxicom | 66702 2910-20 | ATO | 8/6/2010 | 13 mo |
| High Pass Filter | TTE | H97-100K-50-720B | HFX | 2/16/2010 | 13 mo |
| EV07 Cables | N/A | Conducted Cables | EVG | 6/21/2010 | 13 mo |
| LISN | Solar | 9252-50-R-24-BNC | LIN | 5/27/2010 | 12 mo |
| LISN | Solar | 9252-50-R-24-BNC | LIR | 3/2/2010 | 12 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.

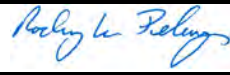
MEASUREMENT UNCERTAINTY

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.

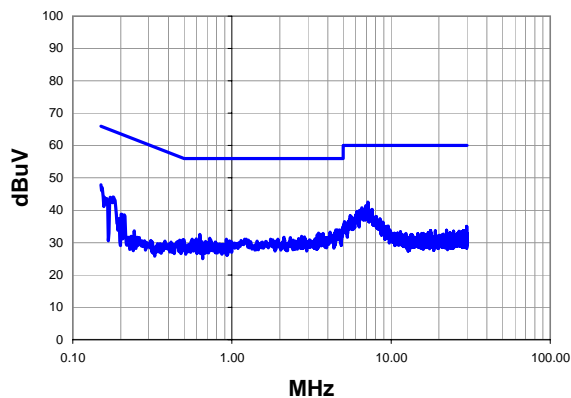
TEST DESCRIPTION

The EUT will be powered indirectly from the AC power line while operating in a host device. Therefore, conducted emissions measurements were made on the DC input of the EUT, or on the DC input of the device used to power the EUT. The AC power line conducted emissions were measured on a linear power supply providing DC power to the module while providing no filtering of the power inputs to the module.

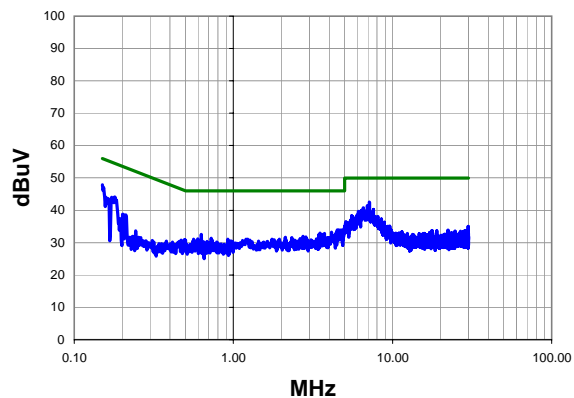
The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band or bands. The EUT was transmitting in the mode which has the highest output power for the band. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.10-2009.

| | | | | | | | |
|---|---|--------------------------|-----------|---|----|----------------|------|
| Work Order: | FOCU0094 | Date: | 10/01/10 |  | | | |
| Project: | None | Temperature: | 22.7 °C | | | | |
| Job Site: | EV07 | Humidity: | 46.1 | | | | |
| Serial Number: | 2C | Barometric Pres.: | 1016.6 mb | | | | |
| | | | | Tested by: Rod Peloquin | | | |
| EUT: | Silverton | | | | | | |
| Configuration: | 3 - AC Conducted Emissions | | | | | | |
| Customer: | Summit Semiconductor | | | | | | |
| Attendees: | None | | | | | | |
| EUT Power: | 3.3 VDC | | | | | | |
| Operating Mode: | Continuous transmit. 6 Mbps, Channel 149 (5745 MHz) | | | | | | |
| Deviations: | No deviations. | | | | | | |
| Comments: | 36 inch I/O cable | | | | | | |
| Test Specifications FCC 15.207:2010 | | | | Test Method ANSI C63.10:2009 | | | |
| Run # | 15 | Line: | High Line | Ext. Attenuation: | 20 | Results | Pass |

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit

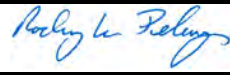


Peak Data - vs - Quasi Peak Limit

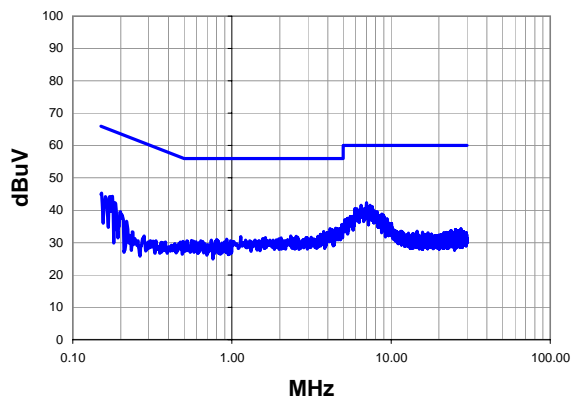
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 7.150 | 22.1 | 20.4 | 42.5 | 60.0 | -17.5 |
| 0.150 | 27.7 | 20.2 | 47.9 | 66.0 | -18.1 |
| 6.960 | 21.1 | 20.4 | 41.5 | 60.0 | -18.5 |
| 6.560 | 20.4 | 20.3 | 40.7 | 60.0 | -19.3 |
| 7.580 | 19.9 | 20.4 | 40.3 | 60.0 | -19.7 |
| 6.110 | 19.4 | 20.3 | 39.7 | 60.0 | -20.3 |
| 0.179 | 24.0 | 20.2 | 44.2 | 64.5 | -20.4 |
| 6.280 | 18.3 | 20.3 | 38.6 | 60.0 | -21.4 |
| 5.540 | 18.0 | 20.3 | 38.3 | 60.0 | -21.7 |
| 8.080 | 17.7 | 20.4 | 38.1 | 60.0 | -21.9 |
| 4.592 | 13.7 | 20.3 | 34.0 | 56.0 | -22.1 |
| 4.744 | 13.7 | 20.3 | 34.0 | 56.0 | -22.1 |
| 4.488 | 13.7 | 20.2 | 33.9 | 56.0 | -22.1 |
| 8.520 | 16.9 | 20.4 | 37.3 | 60.0 | -22.7 |
| 4.144 | 13.0 | 20.2 | 33.2 | 56.0 | -22.8 |
| 4.424 | 12.9 | 20.2 | 33.1 | 56.0 | -22.9 |
| 3.504 | 12.7 | 20.2 | 32.9 | 56.0 | -23.1 |
| 3.728 | 12.6 | 20.2 | 32.8 | 56.0 | -23.2 |
| 0.629 | 12.4 | 20.2 | 32.6 | 56.0 | -23.4 |
| 3.624 | 12.3 | 20.2 | 32.5 | 56.0 | -23.5 |

Peak Data - vs - Average Limit

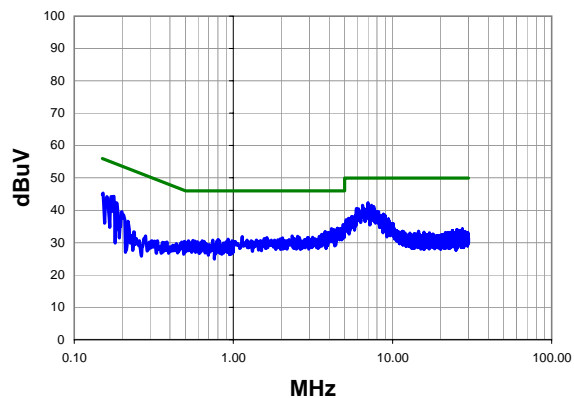
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 7.150 | 22.1 | 20.4 | 42.5 | 50.0 | -7.5 |
| 0.150 | 27.7 | 20.2 | 47.9 | 56.0 | -8.1 |
| 6.960 | 21.1 | 20.4 | 41.5 | 50.0 | -8.5 |
| 6.560 | 20.4 | 20.3 | 40.7 | 50.0 | -9.3 |
| 7.580 | 19.9 | 20.4 | 40.3 | 50.0 | -9.7 |
| 6.110 | 19.4 | 20.3 | 39.7 | 50.0 | -10.3 |
| 0.179 | 24.0 | 20.2 | 44.2 | 54.5 | -10.4 |
| 6.280 | 18.3 | 20.3 | 38.6 | 50.0 | -11.4 |
| 5.540 | 18.0 | 20.3 | 38.3 | 50.0 | -11.7 |
| 8.080 | 17.7 | 20.4 | 38.1 | 50.0 | -11.9 |
| 4.592 | 13.7 | 20.3 | 34.0 | 46.0 | -12.1 |
| 4.744 | 13.7 | 20.3 | 34.0 | 46.0 | -12.1 |
| 4.488 | 13.7 | 20.2 | 33.9 | 46.0 | -12.1 |
| 8.520 | 16.9 | 20.4 | 37.3 | 50.0 | -12.7 |
| 4.144 | 13.0 | 20.2 | 33.2 | 46.0 | -12.8 |
| 4.424 | 12.9 | 20.2 | 33.1 | 46.0 | -12.9 |
| 3.504 | 12.7 | 20.2 | 32.9 | 46.0 | -13.1 |
| 3.728 | 12.6 | 20.2 | 32.8 | 46.0 | -13.2 |
| 0.629 | 12.4 | 20.2 | 32.6 | 46.0 | -13.4 |
| 3.624 | 12.3 | 20.2 | 32.5 | 46.0 | -13.5 |

| | | | | | | | |
|---|---|--------------------------|--|---|----|----------------|------|
| Work Order: | FOCU0094 | Date: | 10/01/10 |  | | | |
| Project: | None | Temperature: | 22.7 °C | | | | |
| Job Site: | EV07 | Humidity: | 46.1 | | | | |
| Serial Number: | 2C | Barometric Pres.: | 1016.6 mb | | | | |
| EUT: | Silverton | | | | | | |
| Configuration: | 3 - AC Conducted Emissions | | | | | | |
| Customer: | Summit Semiconductor | | | | | | |
| Attendees: | None | | | | | | |
| EUT Power: | 3.3 VDC | | | | | | |
| Operating Mode: | Continuous transmit. 6 Mbps, Channel 149 (5745 MHz) | | | | | | |
| Deviations: | No deviations. | | | | | | |
| Comments: | 36 inch I/O cable | | | | | | |
| Test Specifications FCC 15.207:2010 | | | Test Method ANSI C63.10:2009 | | | | |
| Run # | 16 | Line: | Neutral | Ext. Attenuation: | 20 | Results | Pass |

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit

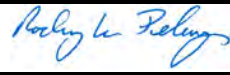


Peak Data - vs - Quasi Peak Limit

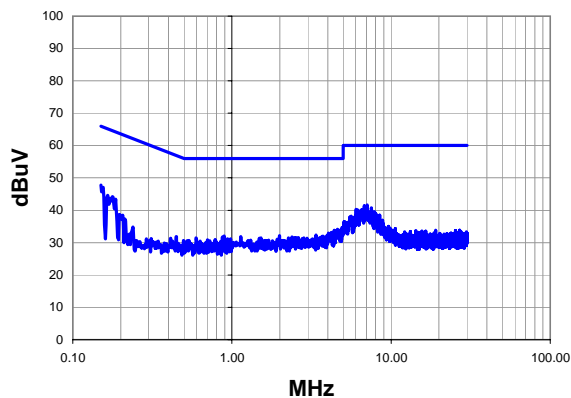
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 7.000 | 21.9 | 20.4 | 42.3 | 60.0 | -17.7 |
| 6.490 | 21.2 | 20.3 | 41.5 | 60.0 | -18.5 |
| 7.390 | 21.1 | 20.4 | 41.5 | 60.0 | -18.5 |
| 7.610 | 20.7 | 20.4 | 41.1 | 60.0 | -18.9 |
| 5.930 | 20.3 | 20.3 | 40.6 | 60.0 | -19.4 |
| 6.090 | 20.2 | 20.3 | 40.5 | 60.0 | -19.5 |
| 7.710 | 19.8 | 20.4 | 40.2 | 60.0 | -19.8 |
| 0.177 | 24.2 | 20.2 | 44.4 | 64.6 | -20.3 |
| 4.904 | 15.4 | 20.3 | 35.7 | 56.0 | -20.3 |
| 7.900 | 19.2 | 20.4 | 39.6 | 60.0 | -20.4 |
| 8.160 | 19.2 | 20.4 | 39.6 | 60.0 | -20.4 |
| 0.152 | 25.1 | 20.2 | 45.3 | 65.9 | -20.6 |
| 0.170 | 24.1 | 20.2 | 44.3 | 64.9 | -20.7 |
| 8.750 | 18.4 | 20.4 | 38.8 | 60.0 | -21.2 |
| 0.160 | 24.1 | 20.2 | 44.3 | 65.5 | -21.2 |
| 8.950 | 18.1 | 20.4 | 38.5 | 60.0 | -21.5 |
| 4.496 | 14.2 | 20.2 | 34.4 | 56.0 | -21.6 |
| 8.360 | 18.0 | 20.4 | 38.4 | 60.0 | -21.6 |
| 5.850 | 18.1 | 20.3 | 38.4 | 60.0 | -21.6 |
| 4.800 | 14.1 | 20.3 | 34.4 | 56.0 | -21.6 |

Peak Data - vs - Average Limit

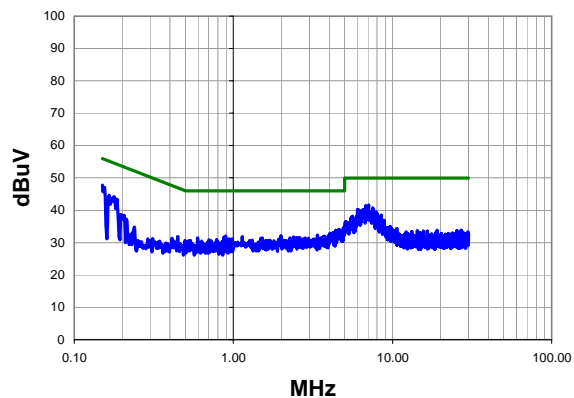
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 7.000 | 21.9 | 20.4 | 42.3 | 50.0 | -7.7 |
| 6.490 | 21.2 | 20.3 | 41.5 | 50.0 | -8.5 |
| 7.390 | 21.1 | 20.4 | 41.5 | 50.0 | -8.5 |
| 7.610 | 20.7 | 20.4 | 41.1 | 50.0 | -8.9 |
| 5.930 | 20.3 | 20.3 | 40.6 | 50.0 | -9.4 |
| 6.090 | 20.2 | 20.3 | 40.5 | 50.0 | -9.5 |
| 7.710 | 19.8 | 20.4 | 40.2 | 50.0 | -9.8 |
| 0.177 | 24.2 | 20.2 | 44.4 | 54.6 | -10.3 |
| 4.904 | 15.4 | 20.3 | 35.7 | 46.0 | -10.3 |
| 7.900 | 19.2 | 20.4 | 39.6 | 50.0 | -10.4 |
| 8.160 | 19.2 | 20.4 | 39.6 | 50.0 | -10.4 |
| 0.152 | 25.1 | 20.2 | 45.3 | 55.9 | -10.6 |
| 0.170 | 24.1 | 20.2 | 44.3 | 54.9 | -10.7 |
| 8.750 | 18.4 | 20.4 | 38.8 | 50.0 | -11.2 |
| 0.160 | 24.1 | 20.2 | 44.3 | 55.5 | -11.2 |
| 8.950 | 18.1 | 20.4 | 38.5 | 50.0 | -11.5 |
| 4.496 | 14.2 | 20.2 | 34.4 | 46.0 | -11.6 |
| 8.360 | 18.0 | 20.4 | 38.4 | 50.0 | -11.6 |
| 5.850 | 18.1 | 20.3 | 38.4 | 50.0 | -11.6 |
| 4.800 | 14.1 | 20.3 | 34.4 | 46.0 | -11.6 |

| | | | | | |
|---|---|--------------------------|--|---|----|
| Work Order: | FOCU0094 | Date: | 10/01/10 |  | |
| Project: | None | Temperature: | 22.7 °C | | |
| Job Site: | EV07 | Humidity: | 46.1 | | |
| Serial Number: | 2C | Barometric Pres.: | 1016.6 mb | | |
| EUT: | Silverton | | | | |
| Configuration: | 3 - AC Conducted Emissions | | | | |
| Customer: | Summit Semiconductor | | | | |
| Attendees: | None | | | | |
| EUT Power: | 3.3 VDC | | | | |
| Operating Mode: | Continuous transmit. 6 Mbps, Channel 157 (5785 MHz) | | | | |
| Deviations: | No deviations. | | | | |
| Comments: | 36 inch I/O cable | | | | |
| Test Specifications FCC 15.207:2010 | | | Test Method ANSI C63.10:2009 | | |
| Run # | 17 | Line: | High Line | Ext. Attenuation: | 20 |
| Results | | | | Pass | |

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit

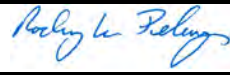


Peak Data - vs - Quasi Peak Limit

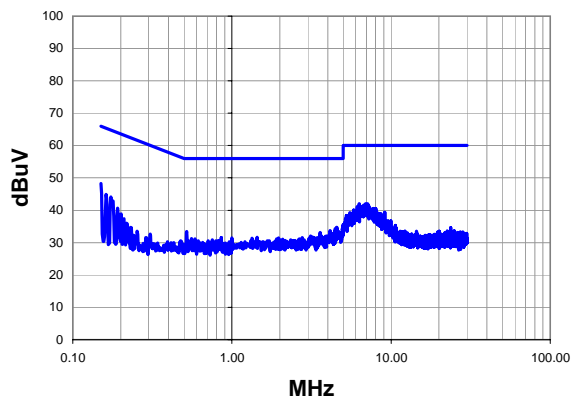
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.150 | 27.6 | 20.2 | 47.8 | 66.0 | -18.2 |
| 7.080 | 21.2 | 20.4 | 41.6 | 60.0 | -18.4 |
| 6.790 | 21.0 | 20.4 | 41.4 | 60.0 | -18.6 |
| 7.530 | 20.3 | 20.4 | 40.7 | 60.0 | -19.3 |
| 6.040 | 20.0 | 20.3 | 40.3 | 60.0 | -19.7 |
| 6.590 | 19.8 | 20.3 | 40.1 | 60.0 | -19.9 |
| 7.860 | 19.2 | 20.4 | 39.6 | 60.0 | -20.4 |
| 0.165 | 24.4 | 20.2 | 44.6 | 65.2 | -20.6 |
| 8.470 | 18.1 | 20.4 | 38.5 | 60.0 | -21.5 |
| 5.950 | 18.0 | 20.3 | 38.3 | 60.0 | -21.7 |
| 5.610 | 17.9 | 20.3 | 38.2 | 60.0 | -21.8 |
| 4.600 | 13.9 | 20.3 | 34.2 | 56.0 | -21.9 |
| 4.808 | 13.6 | 20.3 | 33.9 | 56.0 | -22.1 |
| 4.400 | 13.6 | 20.2 | 33.8 | 56.0 | -22.2 |
| 4.232 | 12.9 | 20.2 | 33.1 | 56.0 | -22.9 |
| 8.830 | 16.5 | 20.4 | 36.9 | 60.0 | -23.1 |
| 5.100 | 16.2 | 20.3 | 36.5 | 60.0 | -23.5 |
| 3.376 | 12.1 | 20.2 | 32.3 | 56.0 | -23.7 |
| 1.992 | 11.9 | 20.2 | 32.1 | 56.0 | -23.9 |
| 0.895 | 11.9 | 20.2 | 32.1 | 56.0 | -23.9 |

Peak Data - vs - Average Limit

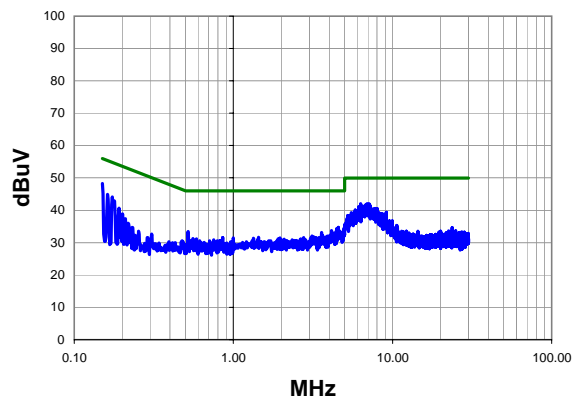
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.150 | 27.6 | 20.2 | 47.8 | 56.0 | -8.2 |
| 7.080 | 21.2 | 20.4 | 41.6 | 50.0 | -8.4 |
| 6.790 | 21.0 | 20.4 | 41.4 | 50.0 | -8.6 |
| 7.530 | 20.3 | 20.4 | 40.7 | 50.0 | -9.3 |
| 6.040 | 20.0 | 20.3 | 40.3 | 50.0 | -9.7 |
| 6.590 | 19.8 | 20.3 | 40.1 | 50.0 | -9.9 |
| 7.860 | 19.2 | 20.4 | 39.6 | 50.0 | -10.4 |
| 0.165 | 24.4 | 20.2 | 44.6 | 55.2 | -10.6 |
| 8.470 | 18.1 | 20.4 | 38.5 | 50.0 | -11.5 |
| 5.950 | 18.0 | 20.3 | 38.3 | 50.0 | -11.7 |
| 5.610 | 17.9 | 20.3 | 38.2 | 50.0 | -11.8 |
| 4.600 | 13.9 | 20.3 | 34.2 | 46.0 | -11.9 |
| 4.808 | 13.6 | 20.3 | 33.9 | 46.0 | -12.1 |
| 4.400 | 13.6 | 20.2 | 33.8 | 46.0 | -12.2 |
| 4.232 | 12.9 | 20.2 | 33.1 | 46.0 | -12.9 |
| 8.830 | 16.5 | 20.4 | 36.9 | 50.0 | -13.1 |
| 5.100 | 16.2 | 20.3 | 36.5 | 50.0 | -13.5 |
| 3.376 | 12.1 | 20.2 | 32.3 | 46.0 | -13.7 |
| 1.992 | 11.9 | 20.2 | 32.1 | 46.0 | -13.9 |
| 0.895 | 11.9 | 20.2 | 32.1 | 46.0 | -13.9 |

| | | | | | | | |
|---|---|--------------------------|-----------|---|----|----------------|------|
| Work Order: | FOCU0094 | Date: | 10/01/10 |  | | | |
| Project: | None | Temperature: | 22.7 °C | | | | |
| Job Site: | EV07 | Humidity: | 46.1 | | | | |
| Serial Number: | 2C | Barometric Pres.: | 1016.6 mb | | | | |
| | | | | Tested by: Rod Peloquin | | | |
| EUT: | Silverton | | | | | | |
| Configuration: | 3 - AC Conducted Emissions | | | | | | |
| Customer: | Summit Semiconductor | | | | | | |
| Attendees: | None | | | | | | |
| EUT Power: | 3.3 VDC | | | | | | |
| Operating Mode: | Continuous transmit. 6 Mbps, Channel 157 (5785 MHz) | | | | | | |
| Deviations: | No deviations. | | | | | | |
| Comments: | 36 inch I/O cable | | | | | | |
| Test Specifications FCC 15.207:2010 | | | | Test Method ANSI C63.10:2009 | | | |
| Run # | 18 | Line: | Neutral | Ext. Attenuation: | 20 | Results | Pass |

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit

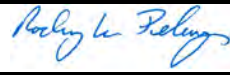


Peak Data - vs - Quasi Peak Limit

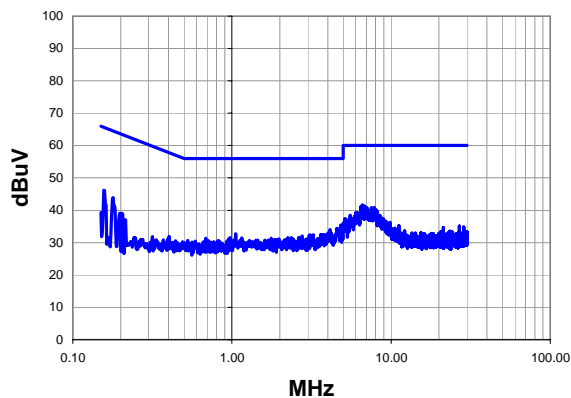
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.150 | 28.1 | 20.2 | 48.3 | 66.0 | -17.7 |
| 6.310 | 21.8 | 20.3 | 42.1 | 60.0 | -17.9 |
| 7.100 | 21.6 | 20.4 | 42.0 | 60.0 | -18.0 |
| 6.900 | 21.6 | 20.4 | 42.0 | 60.0 | -18.0 |
| 7.190 | 21.3 | 20.4 | 41.7 | 60.0 | -18.3 |
| 6.770 | 21.3 | 20.4 | 41.7 | 60.0 | -18.3 |
| 6.370 | 21.2 | 20.3 | 41.5 | 60.0 | -18.5 |
| 7.250 | 20.9 | 20.4 | 41.3 | 60.0 | -18.7 |
| 6.590 | 20.9 | 20.3 | 41.2 | 60.0 | -18.8 |
| 6.120 | 20.9 | 20.3 | 41.2 | 60.0 | -18.8 |
| 7.760 | 20.1 | 20.4 | 40.5 | 60.0 | -19.5 |
| 8.020 | 20.0 | 20.4 | 40.4 | 60.0 | -19.6 |
| 5.830 | 19.8 | 20.3 | 40.1 | 60.0 | -19.9 |
| 0.162 | 24.7 | 20.2 | 44.9 | 65.4 | -20.5 |
| 0.174 | 24.0 | 20.2 | 44.2 | 64.8 | -20.6 |
| 9.130 | 18.9 | 20.4 | 39.3 | 60.0 | -20.7 |
| 5.520 | 19.0 | 20.3 | 39.3 | 60.0 | -20.7 |
| 8.250 | 18.8 | 20.4 | 39.2 | 60.0 | -20.8 |
| 5.730 | 18.9 | 20.3 | 39.2 | 60.0 | -20.8 |
| 8.430 | 18.6 | 20.4 | 39.0 | 60.0 | -21.0 |

Peak Data - vs - Average Limit

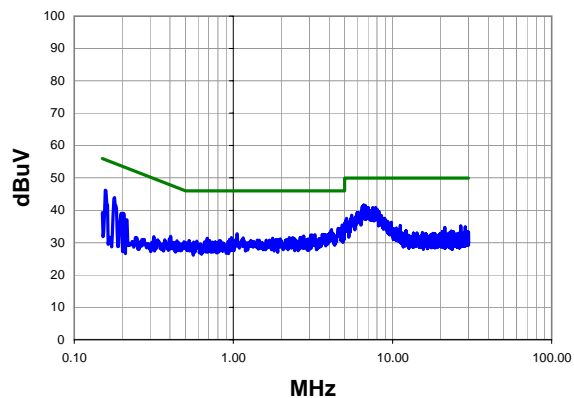
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 0.150 | 28.1 | 20.2 | 48.3 | 56.0 | -7.7 |
| 6.310 | 21.8 | 20.3 | 42.1 | 50.0 | -7.9 |
| 7.100 | 21.6 | 20.4 | 42.0 | 50.0 | -8.0 |
| 6.900 | 21.6 | 20.4 | 42.0 | 50.0 | -8.0 |
| 7.190 | 21.3 | 20.4 | 41.7 | 50.0 | -8.3 |
| 6.770 | 21.3 | 20.4 | 41.7 | 50.0 | -8.3 |
| 6.370 | 21.2 | 20.3 | 41.5 | 50.0 | -8.5 |
| 7.250 | 20.9 | 20.4 | 41.3 | 50.0 | -8.7 |
| 6.590 | 20.9 | 20.3 | 41.2 | 50.0 | -8.8 |
| 6.120 | 20.9 | 20.3 | 41.2 | 50.0 | -8.8 |
| 7.760 | 20.1 | 20.4 | 40.5 | 50.0 | -9.5 |
| 8.020 | 20.0 | 20.4 | 40.4 | 50.0 | -9.6 |
| 5.830 | 19.8 | 20.3 | 40.1 | 50.0 | -9.9 |
| 0.162 | 24.7 | 20.2 | 44.9 | 55.4 | -10.5 |
| 0.174 | 24.0 | 20.2 | 44.2 | 54.8 | -10.6 |
| 9.130 | 18.9 | 20.4 | 39.3 | 50.0 | -10.7 |
| 5.520 | 19.0 | 20.3 | 39.3 | 50.0 | -10.7 |
| 8.250 | 18.8 | 20.4 | 39.2 | 50.0 | -10.8 |
| 5.730 | 18.9 | 20.3 | 39.2 | 50.0 | -10.8 |
| 8.430 | 18.6 | 20.4 | 39.0 | 50.0 | -11.0 |

| | | | | | | | |
|---|---|--------------------------|--|---|----|----------------|------|
| Work Order: | FOCU0094 | Date: | 10/01/10 |  | | | |
| Project: | None | Temperature: | 22.7 °C | | | | |
| Job Site: | EV07 | Humidity: | 46.1 | | | | |
| Serial Number: | 2C | Barometric Pres.: | 1016.6 mb | Tested by: Rod Peloquin | | | |
| EUT: | Silverton | | | | | | |
| Configuration: | 3 - AC Conducted Emissions | | | | | | |
| Customer: | Summit Semiconductor | | | | | | |
| Attendees: | None | | | | | | |
| EUT Power: | 3.3 VDC | | | | | | |
| Operating Mode: | Continuous transmit. 6 Mbps, Channel 165 (5825 MHz) | | | | | | |
| Deviations: | No deviations. | | | | | | |
| Comments: | 36 inch I/O cable | | | | | | |
| Test Specifications FCC 15.207:2010 | | | Test Method ANSI C63.10:2009 | | | | |
| Run # | 19 | Line: | Neutral | Ext. Attenuation: | 20 | Results | Pass |

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit

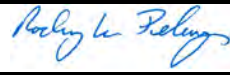


Peak Data - vs - Quasi Peak Limit

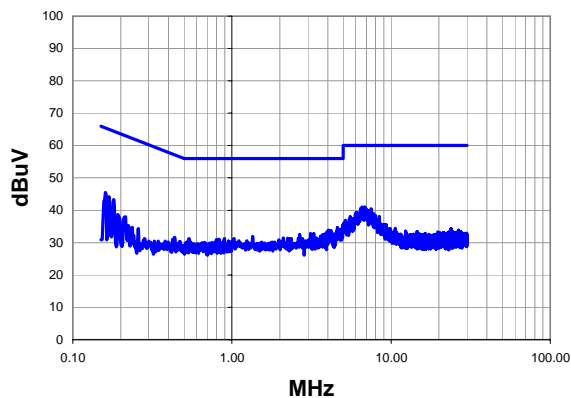
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 6.590 | 21.3 | 20.3 | 41.6 | 60.0 | -18.4 |
| 6.770 | 21.1 | 20.4 | 41.5 | 60.0 | -18.5 |
| 6.850 | 20.6 | 20.4 | 41.0 | 60.0 | -19.0 |
| 7.530 | 20.4 | 20.4 | 40.8 | 60.0 | -19.2 |
| 7.040 | 20.4 | 20.4 | 40.8 | 60.0 | -19.2 |
| 7.840 | 20.3 | 20.4 | 40.7 | 60.0 | -19.3 |
| 0.157 | 26.0 | 20.2 | 46.2 | 65.6 | -19.5 |
| 8.030 | 19.8 | 20.4 | 40.2 | 60.0 | -19.8 |
| 8.200 | 19.2 | 20.4 | 39.6 | 60.0 | -20.4 |
| 4.824 | 15.2 | 20.3 | 35.5 | 56.0 | -20.5 |
| 0.179 | 23.8 | 20.2 | 44.0 | 64.5 | -20.6 |
| 6.140 | 19.0 | 20.3 | 39.3 | 60.0 | -20.7 |
| 4.952 | 14.5 | 20.3 | 34.8 | 56.0 | -21.2 |
| 8.350 | 18.1 | 20.4 | 38.5 | 60.0 | -21.5 |
| 5.530 | 18.2 | 20.3 | 38.5 | 60.0 | -21.5 |
| 4.552 | 14.2 | 20.3 | 34.5 | 56.0 | -21.6 |
| 4.128 | 13.8 | 20.2 | 34.0 | 56.0 | -22.0 |
| 8.890 | 17.1 | 20.4 | 37.5 | 60.0 | -22.5 |
| 5.140 | 17.2 | 20.3 | 37.5 | 60.0 | -22.5 |
| 1.056 | 12.6 | 20.2 | 32.8 | 56.0 | -23.2 |

Peak Data - vs - Average Limit

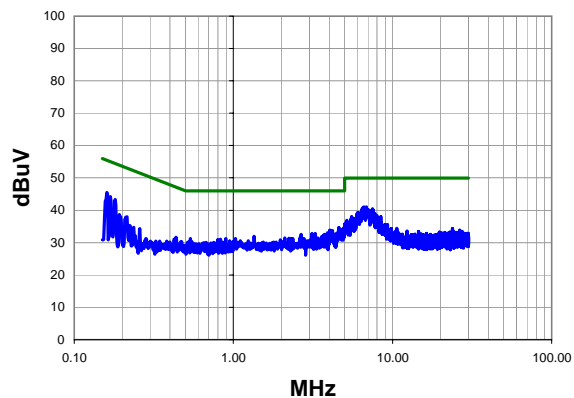
| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 6.590 | 21.3 | 20.3 | 41.6 | 50.0 | -8.4 |
| 6.770 | 21.1 | 20.4 | 41.5 | 50.0 | -8.5 |
| 6.850 | 20.6 | 20.4 | 41.0 | 50.0 | -9.0 |
| 7.530 | 20.4 | 20.4 | 40.8 | 50.0 | -9.2 |
| 7.040 | 20.4 | 20.4 | 40.8 | 50.0 | -9.2 |
| 7.840 | 20.3 | 20.4 | 40.7 | 50.0 | -9.3 |
| 0.157 | 26.0 | 20.2 | 46.2 | 55.6 | -9.5 |
| 8.030 | 19.8 | 20.4 | 40.2 | 50.0 | -9.8 |
| 8.200 | 19.2 | 20.4 | 39.6 | 50.0 | -10.4 |
| 4.824 | 15.2 | 20.3 | 35.5 | 46.0 | -10.5 |
| 0.179 | 23.8 | 20.2 | 44.0 | 54.5 | -10.6 |
| 6.140 | 19.0 | 20.3 | 39.3 | 50.0 | -10.7 |
| 4.952 | 14.5 | 20.3 | 34.8 | 46.0 | -11.2 |
| 8.350 | 18.1 | 20.4 | 38.5 | 50.0 | -11.5 |
| 5.530 | 18.2 | 20.3 | 38.5 | 50.0 | -11.5 |
| 4.552 | 14.2 | 20.3 | 34.5 | 46.0 | -11.6 |
| 4.128 | 13.8 | 20.2 | 34.0 | 46.0 | -12.0 |
| 8.890 | 17.1 | 20.4 | 37.5 | 50.0 | -12.5 |
| 5.140 | 17.2 | 20.3 | 37.5 | 50.0 | -12.5 |
| 1.056 | 12.6 | 20.2 | 32.8 | 46.0 | -13.2 |

| | | | | | | | |
|---|---|--------------------------|--|---|----|----------------|------|
| Work Order: | FOCU0094 | Date: | 10/01/10 |  | | | |
| Project: | None | Temperature: | 22.7 °C | | | | |
| Job Site: | EV07 | Humidity: | 46.1 | | | | |
| Serial Number: | 2C | Barometric Pres.: | 1016.6 mb | | | | |
| EUT: | Silverton | | | | | | |
| Configuration: | 3 - AC Conducted Emissions | | | | | | |
| Customer: | Summit Semiconductor | | | | | | |
| Attendees: | None | | | | | | |
| EUT Power: | 3.3 VDC | | | | | | |
| Operating Mode: | Continuous transmit. 6 Mbps, Channel 165 (5825 MHz) | | | | | | |
| Deviations: | No deviations. | | | | | | |
| Comments: | 36 inch I/O cable | | | | | | |
| Test Specifications FCC 15.207:2010 | | | Test Method ANSI C63.10:2009 | | | | |
| Run # | 20 | Line: | High Line | Ext. Attenuation: | 20 | Results | Pass |

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) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 6.840 | 20.7 | 20.4 | 41.1 | 60.0 | -18.9 |
| 6.590 | 20.7 | 20.3 | 41.0 | 60.0 | -19.0 |
| 7.490 | 20.1 | 20.4 | 40.5 | 60.0 | -19.5 |
| 0.160 | 25.3 | 20.2 | 45.5 | 65.5 | -20.0 |
| 7.250 | 19.2 | 20.4 | 39.6 | 60.0 | -20.4 |
| 6.110 | 19.0 | 20.3 | 39.3 | 60.0 | -20.7 |
| 0.169 | 24.1 | 20.2 | 44.3 | 65.0 | -20.8 |
| 7.750 | 18.6 | 20.4 | 39.0 | 60.0 | -21.0 |
| 0.181 | 23.2 | 20.2 | 43.4 | 64.5 | -21.1 |
| 4.944 | 14.4 | 20.3 | 34.7 | 56.0 | -21.3 |
| 4.600 | 14.4 | 20.3 | 34.7 | 56.0 | -21.4 |
| 7.970 | 18.0 | 20.4 | 38.4 | 60.0 | -21.6 |
| 4.840 | 13.9 | 20.3 | 34.2 | 56.0 | -21.8 |
| 5.550 | 17.8 | 20.3 | 38.1 | 60.0 | -21.9 |
| 8.440 | 17.6 | 20.4 | 38.0 | 60.0 | -22.0 |
| 4.064 | 13.6 | 20.2 | 33.8 | 56.0 | -22.2 |
| 4.192 | 13.5 | 20.2 | 33.7 | 56.0 | -22.3 |
| 3.896 | 12.8 | 20.2 | 33.0 | 56.0 | -23.0 |
| 5.770 | 16.6 | 20.3 | 36.9 | 60.0 | -23.1 |
| 5.170 | 16.6 | 20.3 | 36.9 | 60.0 | -23.1 |

Peak Data - vs - Average Limit

| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Compared to Spec. (dB) |
|------------|------------------|-------------|-----------------|--------------------|------------------------|
| 6.840 | 20.7 | 20.4 | 41.1 | 50.0 | -8.9 |
| 6.590 | 20.7 | 20.3 | 41.0 | 50.0 | -9.0 |
| 7.490 | 20.1 | 20.4 | 40.5 | 50.0 | -9.5 |
| 0.160 | 25.3 | 20.2 | 45.5 | 55.5 | -10.0 |
| 7.250 | 19.2 | 20.4 | 39.6 | 50.0 | -10.4 |
| 6.110 | 19.0 | 20.3 | 39.3 | 50.0 | -10.7 |
| 0.169 | 24.1 | 20.2 | 44.3 | 55.0 | -10.8 |
| 7.750 | 18.6 | 20.4 | 39.0 | 50.0 | -11.0 |
| 0.181 | 23.2 | 20.2 | 43.4 | 54.5 | -11.1 |
| 4.944 | 14.4 | 20.3 | 34.7 | 46.0 | -11.3 |
| 4.600 | 14.4 | 20.3 | 34.7 | 46.0 | -11.4 |
| 7.970 | 18.0 | 20.4 | 38.4 | 50.0 | -11.6 |
| 4.840 | 13.9 | 20.3 | 34.2 | 46.0 | -11.8 |
| 5.550 | 17.8 | 20.3 | 38.1 | 50.0 | -11.9 |
| 8.440 | 17.6 | 20.4 | 38.0 | 50.0 | -12.0 |
| 4.064 | 13.6 | 20.2 | 33.8 | 46.0 | -12.2 |
| 4.192 | 13.5 | 20.2 | 33.7 | 46.0 | -12.3 |
| 3.896 | 12.8 | 20.2 | 33.0 | 46.0 | -13.0 |
| 5.770 | 16.6 | 20.3 | 36.9 | 50.0 | -13.1 |
| 5.170 | 16.6 | 20.3 | 36.9 | 50.0 | -13.1 |

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 | E4440A | AFD | 6/1/2009 | 24 |
| 26 GHz DC Block, SMA | Pasternack | PE8210 | AME | 10/19/2009 | 13 |
| Attenuator 20 dB, SMA M/F 26GHz | S.M. Electronics | SA26B-20 | AUY | 8/6/2010 | 13 |
| EV06 Direct Connect Cable | ESM Cable Corp. | TT | ECA | 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


Per ANSI C63.10, for unlicensed wireless devices unable to be configured for 100 % duty cycle even in test mode, the system should be configured for the longest duration duty cycle supported. The transmission pulse duration is that time over which the unlicensed wireless device is on and transmitting at its maximum output power.

Measurement methods defined in ANSI C63.10 are often based upon the relationship between the EUT transmission pulse duration and the sweep speed of the measurement analyzer.

The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer.

EMC

BURST DURATION

| | | | |
|---|---|---|----------------|
| EUT: Silverton | | Work Order: FOCU0094 | |
| Serial Number: 2E | | Date: 09/23/10 | |
| Customer: Summit Semiconductor | | Temperature: 22°C | |
| Attendees: Ponnappa Pasura | | Humidity: 45% | |
| Project: None | | Barometric Pres.: 30.10 in | |
| Tested by: Rod Peloquin | | Power: 3.3 VDC | Job Site: EV06 |
| TEST SPECIFICATIONS | | | |
| FCC 15.247:2010 | | Test Method ANSI C63.10:2009 | |
| COMMENTS | | | |
| 2.06 dB loss added for adapter cable and DC block | | | |
| DEVIATIONS FROM TEST STANDARD | | | |
| None | | | |
| Configuration # | 2 | Signature  | |
| | | Value | |

PULSE DURATION

198.3 µs

PERIOD

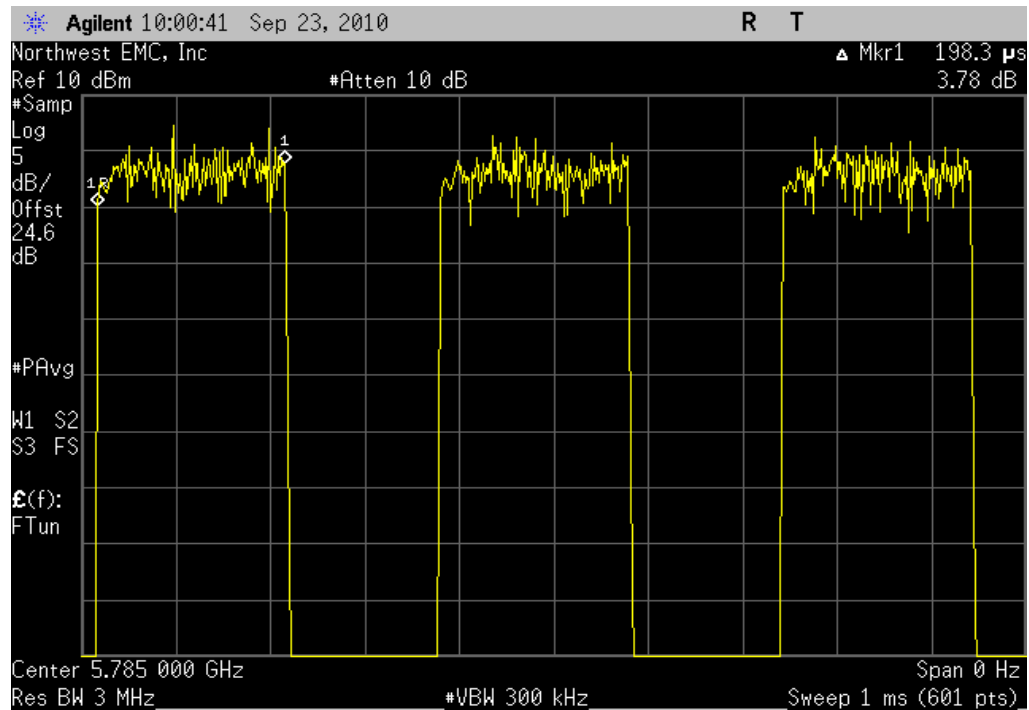
363.3 µs

RF GATING

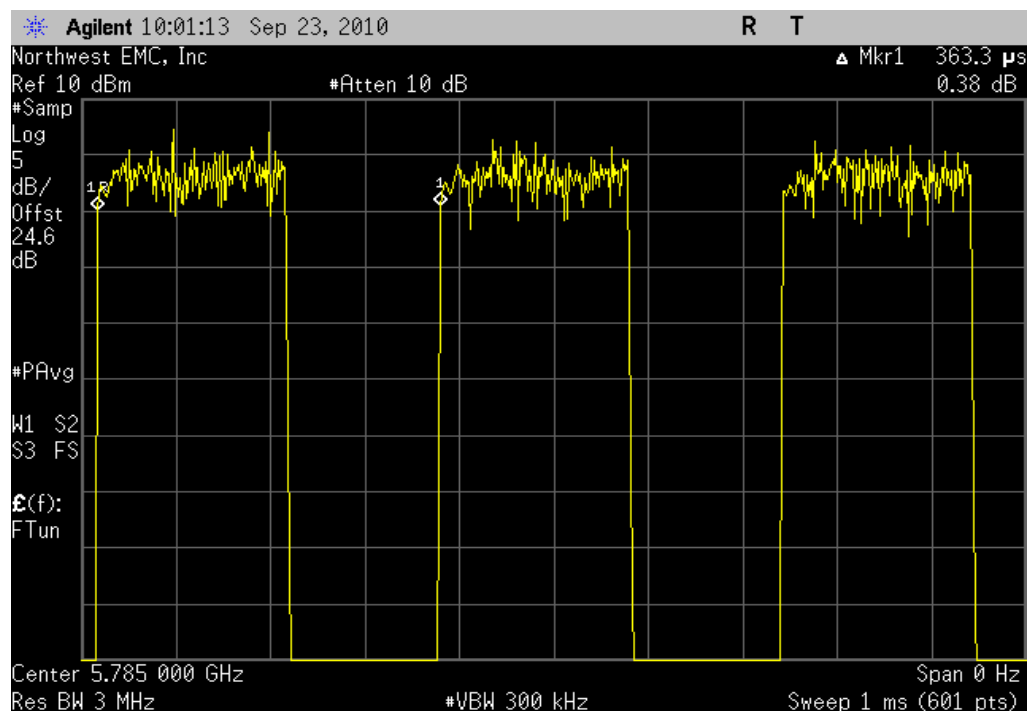
See graph

BURST DURATION

PULSE DURATION

Value: 198.3 μ s

PERIOD

Value: 363.3 μ s

BURST DURATION

RF GATING

Value: See graph

