Stratos Product Development Group

Netguard Reusable

June 14, 2007

Report No. STRA0004.3

Report Prepared By



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22975 NW Evergreen Parkway Suite 400 Hillsboro, Oregon 97124

Certificate of Test

Issue Date: June 14, 2007 Stratos Product Development Group Model: Netguard Reusable

| Emissions | | | | | | | | |
|------------------------------|--|---------------------------------|-------------|------|--|--|--|--|
| Test Description | Specification | Test Method | Pass | Fail | | | | |
| Radiated Emissions | FCC 15.109(g) (CISPR 22:1997):2006 Class A | ANSI C63.4:2003 | \boxtimes | | | | | |
| Spurious Radiated Emissions | FCC 15.247:2006 DTS | ANSI C63.4:2003, KDB No. 558074 | \boxtimes | | | | | |
| Spurious Conducted Emissions | FCC 15.247:2006 DTS | ANSI C63.4:2003, KDB No. 558074 | \boxtimes | | | | | |
| Band Edge Compliance | FCC 15.247:2006 DTS | ANSI C63.4:2003, KDB No. 558074 | \boxtimes | | | | | |
| Occupied Bandwidth | FCC 15.247:2006 DTS | ANSI C63.4:2003, KDB No. 558074 | \boxtimes | | | | | |
| Output Power | FCC 15.247:2006 DTS | ANSI C63.4:2003, KDB No. 558074 | \boxtimes | | | | | |
| Power Spectral Density | FCC 15.247:2006 DTS | ANSI C63.4:2003, KDB No. 558074 | | | | | | |

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.

Approved By:

Ethan Schoonover, Sultan Lab Manager

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

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

Revision History

Revision 05/05/03

| Revision Number | Description | Date | Page Number |
|--------------------|-------------|------|-------------|
| | | | |
| 00 | None | | |

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





NVLAP: Northwest EMC, Inc. is accredited under the United States Department of Commerce, National Institute of Standards and Technology, and National Voluntary Laboratory Accreditation Program for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 89/336/EEC, ANSI C63.4, MILSTD 461E, DO-160D and SAE J1113. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.



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

Industry Canada: Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS 212, Issue 1 (Provisional) 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.



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.



TÜV Product Service: Included in TUV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TUV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TUV's current Listing of CARAT Laboratories, available from TUV. A certificate was issued to represent that this laboratory continues to meet TUV's CARAT Program requirements. Certificate No. USA0604C.



TÜV Rheinland: Authorized to carryout EMC tests by order and under supervision of TÜV Rheinland. This authorization is based on "Conditions for EMC-Subcontractors" of November 1992.



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



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



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



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



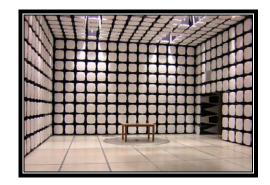
GOST: Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from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



SCOPE

For details on the Scopes of our Accreditations, please visit: http://www.nwemc.com/scope.asp





California – Orange County Facility Labs OC01 – OC13

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





Oregon – Evergreen Facility Labs EV01 – EV11

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





Washington – Sultan Facility Labs SU01 – SU07

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

Party Requesting the Test

| Company Name: | Stratos Product Development Group |
|--------------------------------|-----------------------------------|
| Address: | 2401 Elliott Ave., 5th Floor |
| City, State, Zip: | Seattle, WA 98121 |
| Test Requested By: | George Stone |
| Model: | Netguard Reusable |
| First Date of Test: | May 17, 2007 |
| Last Date of Test: | May 30, 2007 |
| Receipt Date of Samples: | May 14, 2007 |
| Equipment Design Stage: | Production |
| Equipment Condition: | No Damage |

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):

DSSS radio operating at 2.4 GHz. Used in hospitals to broadcast ECG data.

Testing Objective:

Demonstrate compliance under FCC 15.247.

EUT Photo





CONFIGURATION 3 STRA0004

| EUT | | | |
|-----------------|-----------------------------------|-------------------|-----------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Patient Monitor | Stratos Product Development Group | NetGuard Reusable | 00A037FFF800017 |

CONFIGURATION 6 STRA0004

| EUT | | | |
|---------------|-----------------------------|-------------------|-----------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| EUT - Patient | Stratos Product Development | NetGuard | 00A037FFF800050 |
| Monitor | Group | Reuseable | 00A037FFF600030 |

CONFIGURATION 7 STRA0004

| EUT | | | |
|--------------|-----------------------------------|-----------------------|-----------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Access Point | Stratos Product Development Group | NetGuard Access Point | 00A037FFF8000C2 |

| Peripherals in test setup boundary | | | | | | |
|------------------------------------|------------------|-------------------|------------------|--|--|--|
| Description | Manufacturer | Model/Part Number | Serial Number | | | |
| PoE Power Injector | Ault Korea Corp. | PW180KB 4800F01 | Unknown | | | |
| Switch | Netgear | FS605 | 1FM1713D01949 | | | |
| Switch AC Adapter | Netgear | DSA-9R-05 AUS | Unknown | | | |
| Laptop AC Adapter | Sony | PCGA-ACX1 | 0006A0802412P | | | |
| Laptop | Sony | PCG-5201 | 28308530 3102575 | | | |

| Cables | | | | | |
|------------|------------------|---------------------|-------------------|-------------------------------|--------------------|
| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
| AC power | No | 0.5m | No | POE power adapter | AC Mains |
| PoE | No | 3.0m | No | EUT | PoE Power injector |
| LAN | No | 1.0m | No | PoE Power Injector | Switch |
| LAN | No | 1.0m | No | Switch | Laptop |
| DC | No | 1.3m | No | Switch | Switch AC Adapter |
| AC | No | 1.8m | No | Laptop AC Adapter | AC Mains |
| DC | No | 1.4m | No | Laptop | Laptop AC Adapter |
| PA = C | able is permaner | ntly attached to th | e device. Shieldi | ng and/or presence of ferrite | may be unknown. |

Configurations

CONFIGURATION 10 STRA0004

| EUT | | | |
|---------------|-----------------------------|-------------------|-----------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| EUT - Patient | Stratos Product Development | NetGuard | 00402755500040 |
| Monitor | Group | Reuseable | 00A037FFF800040 |

| Peripherals in test setup boundary | | | | | | |
|--|-----------------------------------|----------|-----|--|--|--|
| Description Manufacturer Model/Part Number Serial Number | | | | | | |
| Test fixture, Reuseable | Stratos Product Development Group | DCP-0081 | N/a | | | |
| Battery holder | Stratos Product Development Group | N/a | N/a | | | |

| | Equipment modifications | | | | | |
|------|-------------------------|--------------|---------------|----------------------------|---------------------|--|
| Item | Date | Test | Modification | Note | Disposition of EUT | |
| | | Radiated | Tested as | No EMI suppression | EUT remained at | |
| 1 | 5/17/2007 | Emissions | delivered to | devices were added or | Northwest EMC | |
| | | LITIISSIOTIS | Test Station. | modified during this test. | following the test. | |
| | | Occupied | Tested as | No EMI suppression | EUT remained at | |
| 2 | 5/29/2007 | Bandwidth | delivered to | devices were added or | Northwest EMC | |
| | | Dandwidth | Test Station. | modified during this test. | following the test. | |
| | | Output | Tested as | No EMI suppression | EUT remained at | |
| 3 | 5/29/2007 | Power | delivered to | devices were added or | Northwest EMC | |
| | | rowei | Test Station. | modified during this test. | following the test. | |
| | | Band Edge | Tested as | No EMI suppression | EUT remained at | |
| 4 | 5/29/2007 | Compliance | delivered to | devices were added or | Northwest EMC | |
| | | Compliance | Test Station. | modified during this test. | following the test. | |
| | | Power | Tested as | No EMI suppression | EUT remained at | |
| 5 | 5/29/2007 | Spectral | delivered to | devices were added or | Northwest EMC | |
| | | Density | Test Station. | modified during this test. | following the test. | |
| | | Spurious | Tested as | No EMI suppression | EUT remained at | |
| 6 | 5/29/2007 | Conducted | delivered to | devices were added or | Northwest EMC | |
| | | Emissions | Test Station. | modified during this test. | following the test. | |
| | | Spurious | Tested as | No EMI suppression | Scheduled testing | |
| 7 | 5/30/2007 | Radiated | delivered to | devices were added or | was completed. | |
| | | Emissions | Test Station. | modified during this test. | was completed. | |

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

Search mode.

Debug version of RF print software

MODE USED FOR FINAL DATA

Search mode.

POWER SETTINGS INVESTIGATED

Battery

FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz Stop Frequency 1 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 |
| EV01 cables c,g, h | | | EVA | 12/29/2006 | 13 |
| Pre-Amplifier | Miteq | AM-1616-1000 | AOL | 12/29/2006 | 13 |
| Antenna, Biconilog | EMCO | 3141 | AXE | 12/28/2005 | 24 |
| Spectrum Analyzer | Agilent | E4446A | AAT | 12/7/2006 | 13 |

| 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 |

MEASUREMENT UNCERTAINTY

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

NORTHWEST **RADIATED EMISSIONS DATA SHEET** EMI 2006.12.20 **EMC** EUT: NetGuard Reuseable Work Order: STRA0004 Serial Number: 00A037FFF800050 Date: 05/17/07 **Customer: Stratos Product Development Group** Temperature: 23 Attendees: Brian Read Humidity: 32% Project: None Barometric Pres.: 30.15 Tested by: Holly Ashkannejhad Job Site: EV01 Power: Battery FCC 15.109(g) (CISPR 22:1997):2006 Class A ANSI C63.4:2003 TEST PARAMETERS Antenna Height(s) (m) 1 - 4 Test Distance (m) 5 COMMENTS EUT OPERATING MODES Search mode. DEVIATIONS FROM TEST STANDARD No deviations. Signature Holy Aling Run# Configuration # 6 Results Pass 80.0 70.0 60.0 50.0 dBuV/m 40.0 30.0 20.0 • • 10.0 0.0 10.000 100.000 1000.000 MHz External Distance Compared to Amplitude Factor Azimuth Heiaht Distance Polarity Adjusted Spec. Limit Frea Detector Attenuation Adjustmen Spec. (dBuV) (dB) (degrees) (meters) (dB) (dB) dBuV/m dBuV/m (dB) (meters) (MHz) V-Bilog QP 25.8 47.0 979.932 13.6 12.2 193.0 1.0 5.0 0.0 0.0 -21.2 QΡ 980.527 13.6 12.2 106.0 1.0 5.0 0.0 H-Bilog 0.0 25.8 47.0 -21.2 799.765 13.7 11.6 266.0 1.0 5.0 0.0 H-Bilog QP 0.0 25.3 47.0 -21.7 800.448 13.7 11.6 270.0 1.0 5.0 0.0 V-Bilog QP 0.0 25.3 47.0 -21.7 32.490 H-Bilog QΡ 40.0 -25.0 13.9 1.1 71.0 1.7 5.0 0.0 0.0 15.0 V-Bilog QΡ 32.649 13.9 1.0 215.0 2.8 5.0 0.0 0.0 14.9 40.0 -25.1 H-Bilog QP 600.799 340.0 13.7 7 1 1.0 5.0 0.0 0.0 20.8 47 0 -26.2 599.884 208.0 V-Bilog QP 13.7 6.9 1.0 5.0 0.0 0.0 20.6 47.0 -26.4229.098 14.5 -2.3 322.0 1.0 5.0 0.0 V-Bilog QP 0.0 12.2 40.0 -27.8 399.630 13.8 2.7 359.0 2.4 5.0 0.0 H-Bilog QP 0.0 16.5 47.0 -30.5 399.647 13.8 2.7 346.0 1.0 5.0 0.0 V-Bilog QΡ 0.0 16.5 47.0 -30.5 V-Bilog 100.284 QP 14.9 -6.4 45.0 1.0 5.0 0.0 0.0 8.5 40.0 -31.5 H-Bilog QP 99.386 14.3 -6.4 204.0 1.0 5.0 0.0 0.0 7.9 40.0 -32.1

230.194

-2.2

14.1

180.0

1.0

5.0

0.0

QP

0.0

11.9

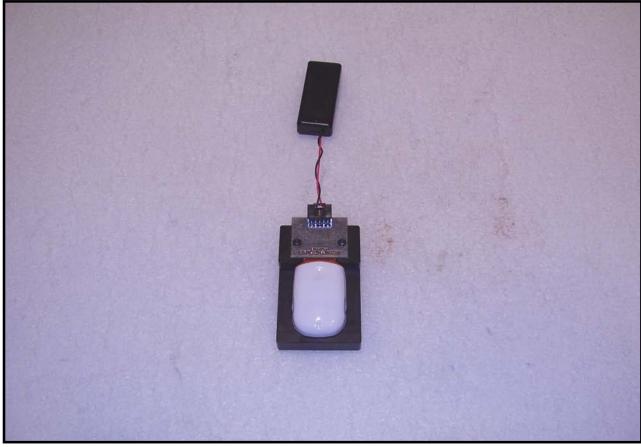
47.0

-35.1

H-Bilog

Radiated Emissions





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 | |
|---------------------------|--|
| Transmitting low channel | |
| Transmitting mid channel | |
| Transmitting high channel | |

POWER SETTINGS INVESTIGATED

Batterv

| FREQUENCY RANGE INVESTIGATED | | | | | | |
|------------------------------|--------|----------------|--------|--|--|--|
| Start Frequency | 30 MHz | Stop Frequency | 26 GHz | | | |

SAMPLE CALCULATIONS

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

| T EQUIPMENT | | | | | |
|--------------------|---------------|----------------------|-----|------------|----------|
| Description | Manufacturer | Model | ID | Last Cal. | Interval |
| High Pass Filter | Micro-Tronics | HPM50111 | HFO | 12/29/2006 | 13 |
| EV01 Cable D | | | EVD | 3/30/2006 | 15 |
| Pre-Amplifier | Miteq | JSD4-18002600-26-8P | APU | 3/23/2006 | 17 |
| Antenna, Horn | EMCO | 3160-09 | AHG | NCR | 0 |
| Pre-Amplifier | Miteq | AMF-4D-005180-24-10P | APC | 5/10/2007 | 13 |
| EV01 cables g,h,l | | | EVF | 5/10/2007 | 13 |
| Antenna, Horn | EMCO | 3160-08 | AHK | NCR | 0 |
| EV01 cables g,h,j | | | EVB | 5/10/2007 | 13 |
| Pre-Amplifier | Miteq | AMF-4D-010100-24-10P | APW | 5/10/2007 | 13 |
| Antenna, Horn | EMCO | 3115 | AHC | 8/24/2006 | 12 |
| Pre-Amplifier | Miteq | AM-1616-1000 | AOL | 12/29/2006 | 13 |
| Antenna, Biconilog | EMCO | 3141 | AXE | 12/28/2005 | 24 |
| EV01 cables c,g, h | | | EVA | 12/29/2006 | 13 |
| Spectrum Analyzer | Agilent | E4446A | AAT | 12/7/2006 | 13 |

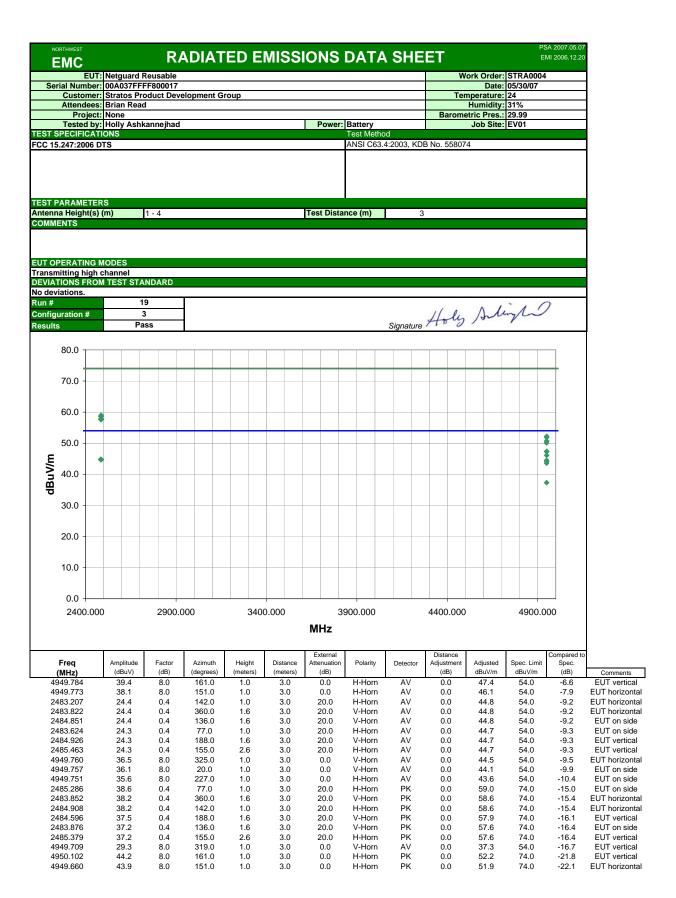
| Frequency Range | Peak Data | Quasi-Peak Data | Average Data |
|-----------------|-----------|-----------------|--------------|
| (MHz) | (kHz) | (kHz) | (kHz) |
| 0.01 - 0.15 | 1.0 | 0.2 | 0.2 |
| 0.15 - 30.0 | 10.0 | 9.0 | 9.0 |
| 30.0 - 1000 | 100.0 | 120.0 | 120.0 |
| Above 1000 | 1000.0 | N/A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

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.



RADIATED EMISSIONS DATA SHEET EMC EUT: Netguard Reusable Work Order: STRA0004 Date: 05/30/07 Serial Number: 00A037FFFF800017 Customer: Stratos Product Development Group Temperature: 24 Humidity: 31% Barometric Pres.: 29.99 Attendees: Brian Read Project: None Tested by: Holly Ashkannejhad Power: Battery Job Site: EV01 ANSI C63.4:2003, KDB No. 558074 FCC 15.247:2006 DTS TEST PARAMETERS Antenna Height(s) (m) Test Distance (m) COMMENTS **EUT OPERATING MODES** Transmitting low channel DEVIATIONS FROM TEST STANDARD No deviations. Signature Holy Aling 20 Configuration # 3 Pass Results 80.0 70.0 60.0 50.0 dBuV/m 40.0 30.0 20.0 10.0 $4800.000 \quad 4810.000 \quad 4820.000 \quad 4830.000 \quad 4840.000 \quad 4850.000 \quad 4860.000 \quad 4870.000 \quad 4880.000 \quad 4890.000 \quad 4900.000 \quad 4800.000 \quad 4800.000$ MHz Distance External Compared to Freq Amplitude Factor Azimuth Height Distance Attenuation Polarity Detector Adjustment Adjusted Spec. Limit Spec. (dB) (dB) dBuV/m dBuV/m (dB) (MHz) 4809.770 (dBuV) (degrees) (meters) (dB) (meters) Comments 36.3 177.0 1.0 H-Horn 43.7 54.0 EUT vertical 7.4 3.0 0.0 0.0 -10.3 4808.803 31.8 7.4 359.0 3.0 0.0 V-Horn ΑV 0.0 39.2 54.0 -14.8 **EUT** vertical 1.0 4809.747 26.9 7.4 47.0 2.3 3.0 0.0 H-Horn AV0.0 34.3 54.0 -19.7 EUT on side 4809.707 26.4 7.4 112.0 1.1 3.0 0.0 V-Horn AV0.0 33.8 54.0 -20.2 EUT on side PK **EUT** vertical

4809 617

4808.687

4809.300

4808.847

43.5

42.2

39.1

7.4

7.4

7.4

177.0

359.0

47.0

112.0

1.0

1.0

2.3

3.0

3.0

3.0

0.0

0.0

0.0

H-Horn

V-Horn

H-Horn

V-Horn

PK

PK

0.0

0.0

0.0

50.9

49.6

46.5

74.0

74.0

74.0

-23.1

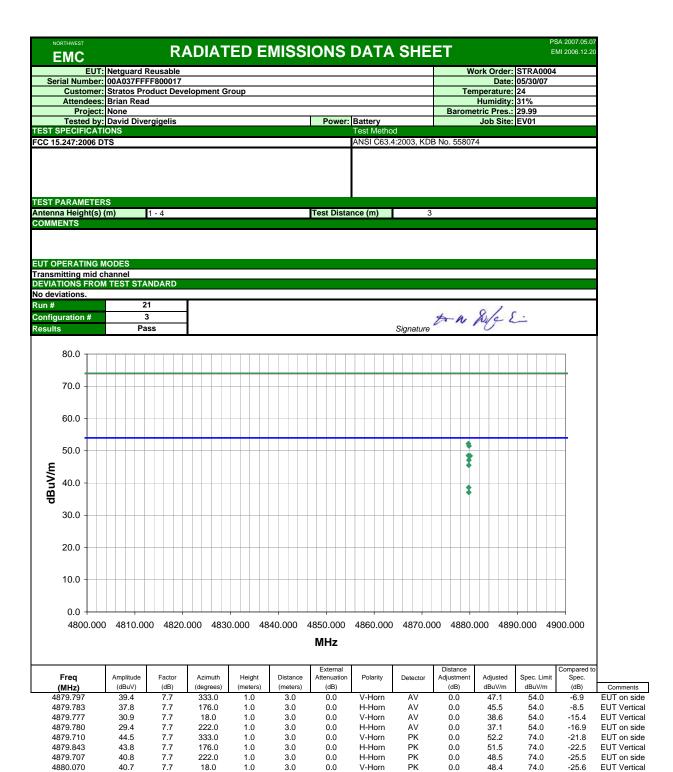
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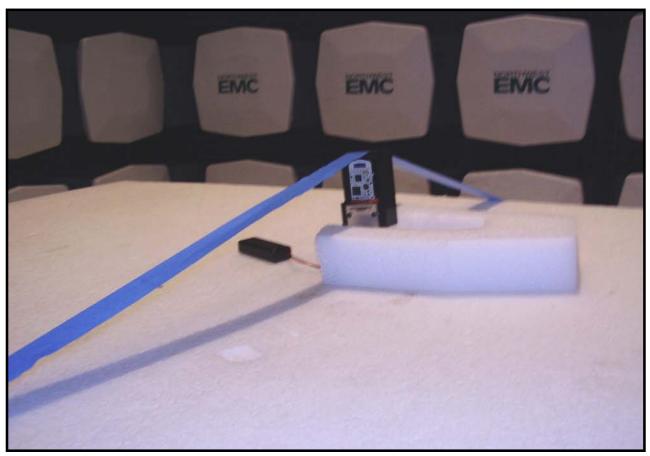
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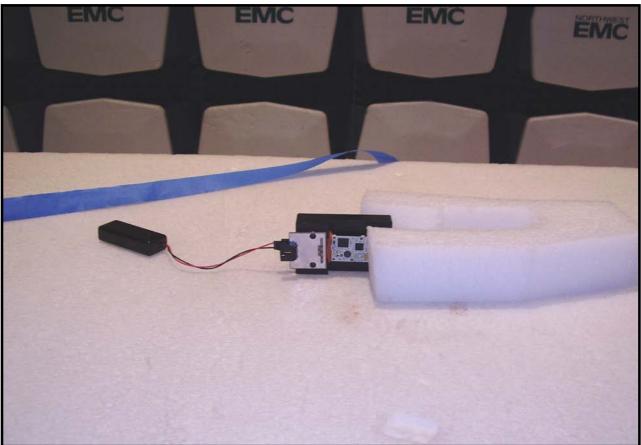
EUT vertical

EUT on side

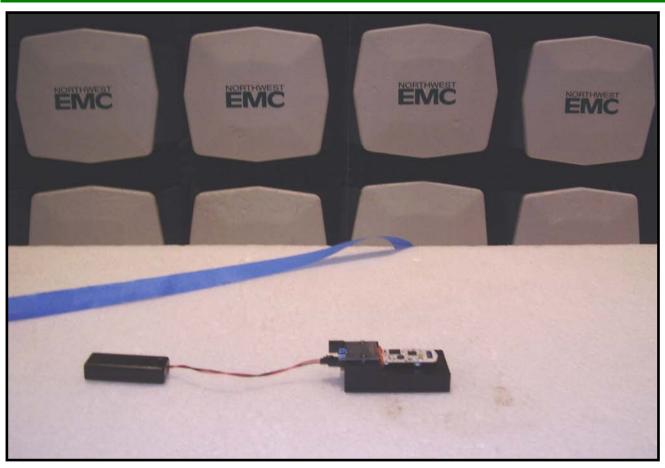
EUT on side







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.

| TEST EQUIPMENT | | | | | |
|-------------------|-----------------|--------|-----|-----------|----------|
| Description | Manufacturer | Model | ID | Last Cal. | Interval |
| Spectrum Analyzer | Agilent | E4407B | AAU | 12/8/2006 | 13 |
| Signal Generator | Hewlett-Packard | 8648D | TGC | 12/7/2006 | 13 |
| Power Meter | Gigatronics | 8651A | SPM | 9/19/2006 | 12 |
| Power Sensor | Gigatronics | 80701A | SPL | 9/19/2006 | 12 |

MEASUREMENT UNCERTAINTY

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

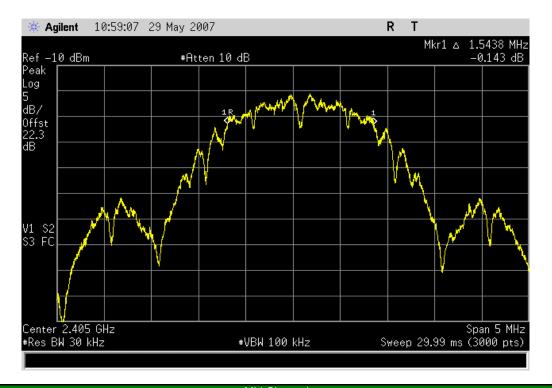
TEST DESCRIPTION

The occupied bandwidth was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate.

| NORTHWEST | | COCURIED | DANDMIDTI | | | XMit 2007.03.30 |
|-------------------|----------------------------|------------------|--------------|-----------------------|---------------------|-----------------|
| EMC | | OCCUPIED | BANDWIDTH | | | |
| EUT: | NetGuard Patient Reuseable | | | | Work Order: STRA000 | 4 |
| Serial Number: | 00A037FFFF800040 | | | | Date: 05/29/07 | |
| Customer: | Stratos Product Developmer | nt Group | | T | emperature: 23°C | |
| Attendees: | Brian Read | | | | Humidity: 31% | |
| Project: | | | | Baron | netric Pres.: 30.23 | |
| | Rod Peloquin | | Power: 3 VDC | | Job Site: EV06 | |
| TEST SPECIFICATI | ONS | | Test Method | d | | |
| FCC 15.247:2006 D | TS | | ANSI C63.4 | :2003, KDB No. 558074 | | |
| | | | | | | |
| COMMENTS | | | | | | |
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| DEVIATIONS FROM | I TEST STANDARD | | | | | |
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| Configuration # | 10 | The state of the | - seeling | | | |
| | | Signature | ν | | | |
| | | | | | | |
| | | | | Value | Limit | Results |
| Low Channel | | | | 1.54 MHz | ≥ 500 kHz | Pass |
| Mid Channel | | | | 1.55 MHz | ≥ 500 kHz | Pass |
| High Channel | | | | 1.55 MHz | ≥ 500 kHz | Pass |

 Low Channel

 Result: Pass
 Value: 1.54 MHz
 Limit: ≥ 500 kHz



 Mid Channel

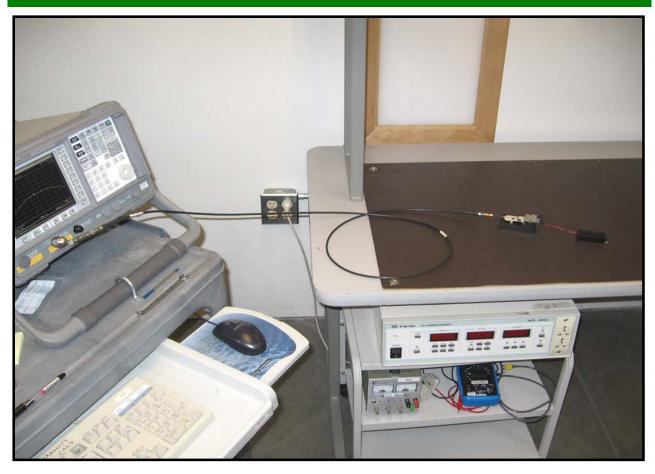
 Result: Pass
 Value: 1.55 MHz
 Limit: ≥ 500 kHz



High Channel

Result: Pass Value: 1.55 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 | E4407B | AAU | 12/8/2006 | 13 |
| Signal Generator | Hewlett-Packard | 8648D | TGC | 12/7/2006 | 13 |
| Power Meter | Gigatronics | 8651A | SPM | 9/19/2006 | 12 |
| Power Sensor | Gigatronics | 80701A | SPL | 9/19/2006 | 12 |

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

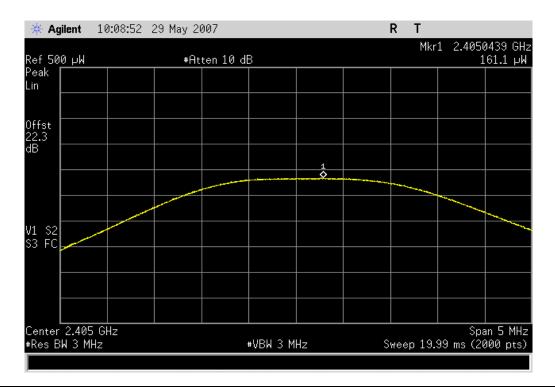
The peak output power was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting at its maximum data rate.

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

| NORTHWEST | | | DOWED | | | XMit 2007.03.30 |
|-------------------|------------------------------|-----------|-------------------------|--------------------|---------------------|-----------------|
| EMC | | OUTPUT | POWER | | | |
| EUT | : NetGuard Reuseable | | | V | Vork Order: STRA000 | 4 |
| Serial Number: | : 00A037FFFF800040 | | | | Date: 05/29/07 | |
| Customer | : Stratos Product Developmer | nt Group | | Te | mperature: 24°C | |
| Attendees | : Brian Read | | | | Humidity: 32% | |
| Project | None | | | Barom | etric Pres.: 30.23 | |
| | : Rod Peloquin | | Power: 3 VDC | | Job Site: EV06 | |
| TEST SPECIFICAT | TIONS | | Test Method | | | |
| FCC 15.247:2006 D | DTS | | ANSI C63.4:20 | 03, KDB No. 558074 | | |
| | | | | | | |
| COMMENTS | | | | | | |
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| DEVIATIONS FROM | M TEST STANDARD | | | | | |
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| | | 201 | \mathcal{P}_{\bullet} | | | |
| Configuration # | 10 | Rocky le | - Clery | | | |
| | | Signature | ν | | | |
| | | | | | | |
| | | | | Value | Limit | Results |
| Low Channel | | · | | 0.161 mW | 1 W | Pass |
| Mid Channel | | | | 0.142 mW | 1 W | Pass |
| High Channel | | | | 0.124 mW | 1 W | Pass |

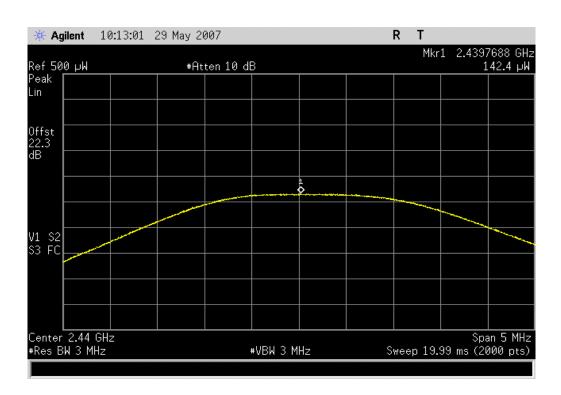
Low Channel

Result: Pass Value: 0.161 mW Limit: 1 W



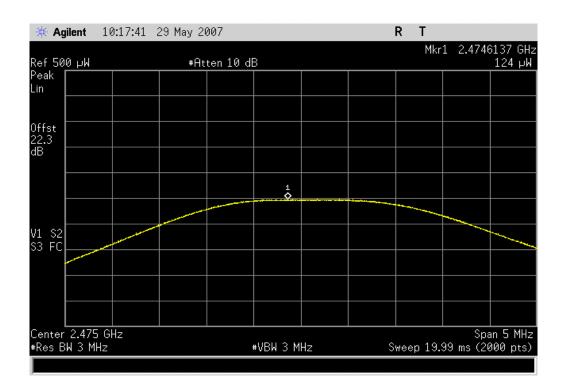
Mid Channel

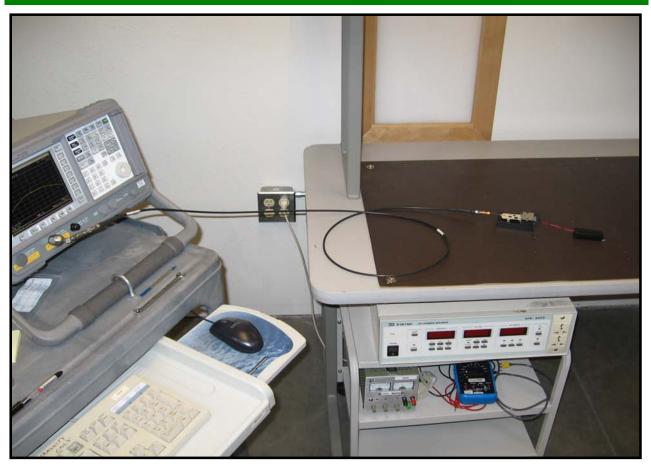
Result: Pass Value: 0.142 mW Limit: 1 W



High Channel

Result: Pass Value: 0.124 mW Limit: 1 W





BAND EDGE COMPLIANCE

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

| TEST EQUIPMENT | | | | | |
|-------------------|-----------------|--------|-----|-----------|----------|
| Description | Manufacturer | Model | ID | Last Cal. | Interval |
| Spectrum Analyzer | Agilent | E4407B | AAU | 12/8/2006 | 13 |
| Signal Generator | Hewlett-Packard | 8648D | TGC | 12/7/2006 | 13 |
| Power Meter | Gigatronics | 8651A | SPM | 9/19/2006 | 12 |
| Power Sensor | Gigatronics | 80701A | SPL | 9/19/2006 | 12 |

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

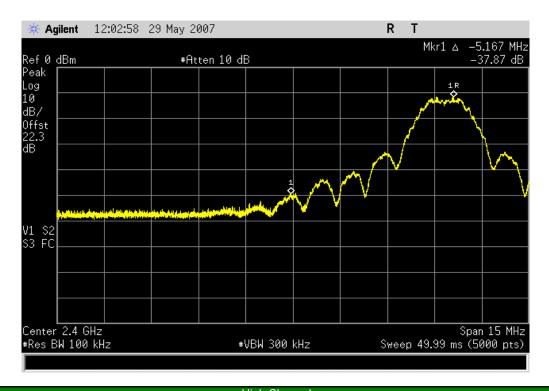
The requirements of FCC 15.247(d) for emissions at least 20dB below the carrier in any 100kHz bandwidth outside the allowable band was measured with the EUT set to low and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using direct sequence modulation. The channels closest to the band edges were selected. The spectrum was scanned across each band edge from 10 MHz below the band edge to 10 MHz above the band edge.

| NORTHWEST EMC | | BAND EDG | SE COMPL | IANCE | | XMit 2007.03.30 |
|-------------------|--------------------------|--------------------|--------------|-----------------------|-------------------|-----------------|
| | NetGuard Reusable | | | | Work Order: | STRA0004 |
| | 00A037FFFF800040 | | | | | 05/29/07 |
| Customer: | Stratos Product Developr | nent Group | | | Temperature: | 24°C |
| Attendees: | Brian Read | | | | Humidity: | 32% |
| Project: | | | | | Barometric Pres.: | |
| | Rod Peloquin | | Power: 3 | | Job Site: | EV06 |
| TEST SPECIFICATI | | | | Test Method | | |
| FCC 15.247:2006 D | TS | | P | NSI C63.4:2003, KDB N | lo. 558074 | |
| | | | | | | |
| COMMENTS | | | | | | |
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| | | | | | | |
| DEVIATIONS FROM | M TEST STANDARD | | | | | |
| | | | | | | |
| Configuration # | 10 | Rorld Signature | ny la Feling | | | |
| | | | | V | alue Li | mit Results |
| Low Channel | | | | -37. | 87 dB ≤ - 2 | 0 dBc Pass |
| High Channel | | | | -42. | .11 dB ≤ - 2 | 0 dBc Pass |

BAND EDGE COMPLIANCE

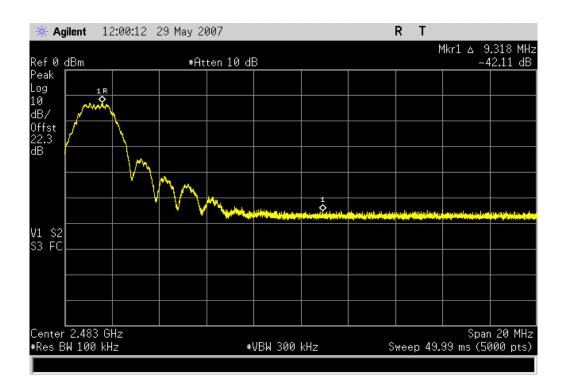
 Low Channel

 Result: Pass
 Value: -37.87 dB
 Limit: ≤ - 20 dBc

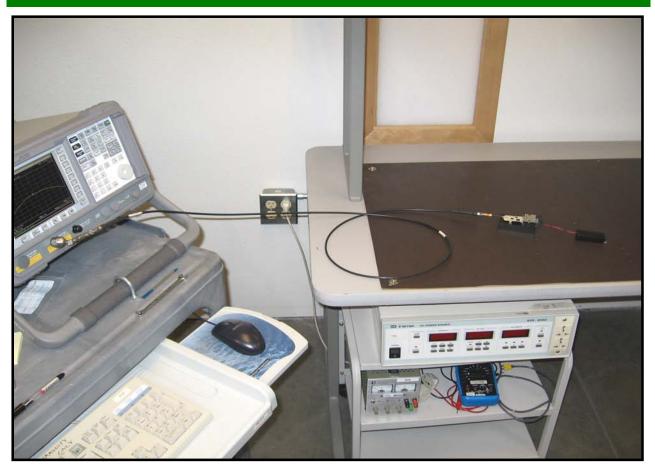


High Channel

Result: Pass Value: -42.11 dB Limit: ≤ - 20 dBc



BAND EDGE COMPLIANCE



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

| TEST EQUIPMENT | | | | | |
|-------------------|-----------------|--------|-----|-----------|----------|
| Description | Manufacturer | Model | ID | Last Cal. | Interval |
| Spectrum Analyzer | Agilent | E4407B | AAU | 12/8/2006 | 13 |
| Signal Generator | Hewlett-Packard | 8648D | TGC | 12/7/2006 | 13 |
| Power Meter | Gigatronics | 8651A | SPM | 9/19/2006 | 12 |
| Power Sensor | Gigatronics | 80701A | SPL | 9/19/2006 | 12 |

MEASUREMENT UNCERTAINTY

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

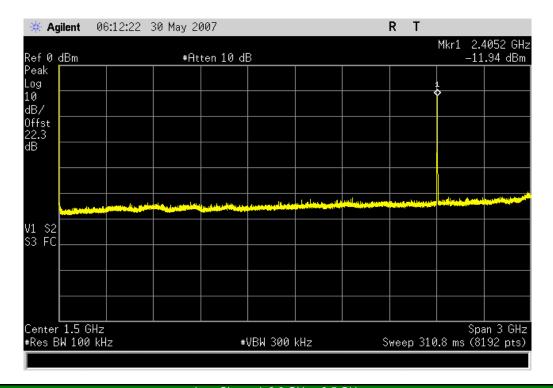
TEST DESCRIPTION

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

| NORTHWEST EMC | | SPURIOUS C | ONDUC | TED EMIS | SIONS | | XMit 2007. |
|---|--|-------------|----------------|--------------|---|--|---|
| | NetGuard Reuseable | | | | | Work Order: STRA000 |)4 |
| Serial Number: 0 | 00A037FFFF800040 | | | | | Date: 05/29/07 | |
| Customer: S | Stratos Product Develo | pment Group | | | Т | emperature: 24°C | |
| Attendees: | Brian Read | • | | | | Humidity: 31% | |
| Project: | | | | | Baroi | netric Pres.: 30.23 | |
| | Rod Peloquin | | | Power: 3 VDC | | Job Site: EV06 | |
| ST SPECIFICATION | DNS | | | Test Method | | | |
| C 15.247:2006 DT | S | | | ANSI C63.4: | 2003, KDB No. 558074 | | |
| MMENTS | | | | | | | |
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| VIATIONS FROM | TEST STANDARD | | | | | | |
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| nfiguration # | 10 | Signature | Rochy la F | Peling | | | |
| | 10 | Signature | Roely le F | Peling | Value | Limit | Resu |
| w Channel | | Signature | Poely le F | Peleng, | | | |
| w Channel |) - 3 GHz | Signature | Poely le F | Peling | < -30 dBc | ≤ -20 dBc | Pas |
| v Channel | 0 - 3 GHz 2.9 GHz - 6.5 GHz | Signature | Poelsy la F | Celing | < -30 dBc < -30 dBc | ≤ -20 dBc ≤ -20 dBc | Pas Pas |
| v Channel | 0 - 3 GHz 2.9 GHz - 6.5 GHz 6.5 GHz - 12.8 GHz | Signature | Poeling le Fi | Pelmy, | < -30 dBc < -30 dBc < -30 dBc | ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc | Pas Pas Pas |
| v Channel | 0 - 3 GHz 2.9 GHz - 6.5 GHz | Signature | Poely le F | Pelmy | < -30 dBc < -30 dBc | ≤ -20 dBc ≤ -20 dBc | Pas Pas Pas |
| v Channel (2 6 1 1 Channel | 0 - 3 GHz 2.9 GHz - 6.5 GHz 3.5 GHz - 12.8 GHz 12.8 GHz - 25 GHz | Signature | Pooley le F | Peling | < -30 dBc < -30 dBc < -30 dBc < -30 dBc | ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc | Pas Pas Pas Pas |
| v Channel (2 6 1 1 Channel |) - 3 GHz 2.9 GHz - 6.5 GHz 3.5 GHz - 12.8 GHz 12.8 GHz - 25 GHz) - 3 GHz | Signature | Pooley le F | Peling | < -30 dBc < -30 dBc < -30 dBc < -30 dBc < -30 dBc | ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc | Pas Pas Pas Pas |
| v Channel (2 6 1 d Channel |) - 3 GHz 2.9 GHz - 6.5 GHz 3.5 GHz - 12.8 GHz 12.8 GHz - 25 GHz) - 3 GHz 2.9 GHz - 6.5 GHz | Signature | Poeling le Fi | Pelmy, | < -30 dBc | ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc | Pas Pas Pas Pas Pas |
| v Channel (2 6 1 1 Channel | 0 - 3 GHz 2.9 GHz - 6.5 GHz 6.5 GHz - 12.8 GHz 12.8 GHz - 25 GHz 0 - 3 GHz 2.9 GHz - 6.5 GHz 6.5 GHz - 12.8 GHz | Signature | Poeley le F | Peling . | < -30 dBc | ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc | Pas Pas Pas Pas Pas Pas |
| v Channel C I Channel C C C C C C C C C C C C C |) - 3 GHz 2.9 GHz - 6.5 GHz 3.5 GHz - 12.8 GHz 12.8 GHz - 25 GHz) - 3 GHz 2.9 GHz - 6.5 GHz | Signature | Pooley le F | Pelmy | < -30 dBc | ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc ≤ -20 dBc | Pas Pas Pas Pas Pas Pas |
| v Channel (2 6 1 1 Channel (2 6 1 1 1 Channel | 0 - 3 GHz 2.9 GHz - 6.5 GHz 5.5 GHz - 12.8 GHz 12.8 GHz - 25 GHz 0 - 3 GHz 2.9 GHz - 6.5 GHz 6.5 GHz - 12.8 GHz 12.8 GHz - 25 GHz | Signature | Pooley le F | Peling | < -30 dBc | ≤ -20 dBc ≤ -20 dBc | Pas Pas Pas Pas Pas Pas |
| v Channel C 2 6 1 C Channel C 2 6 1 C C C C C C C C C C C C C C C C C C | 0 - 3 GHz 2.9 GHz - 6.5 GHz 3.5 GHz - 12.8 GHz 12.8 GHz - 25 GHz 0 - 3 GHz 2.9 GHz - 6.5 GHz 3.5 GHz - 12.8 GHz 12.8 GHz - 25 GHz | Signature | Pooling les Fr | Pelmy | < -30 dBc | ≤ -20 dBc | Pas Pas Pas Pas Pas Pas Pas |
| w Channel Channel Channel Channel Channel Channel Channel | 0 - 3 GHz 2.9 GHz - 6.5 GHz 5.5 GHz - 12.8 GHz 12.8 GHz - 25 GHz 0 - 3 GHz 2.9 GHz - 6.5 GHz 6.5 GHz - 12.8 GHz 12.8 GHz - 25 GHz | Signature | Poely le F | Pelmy | < -30 dBc | ≤ -20 dBc ≤ -20 dBc | Pas Pas Pas Pas Pas Pas |

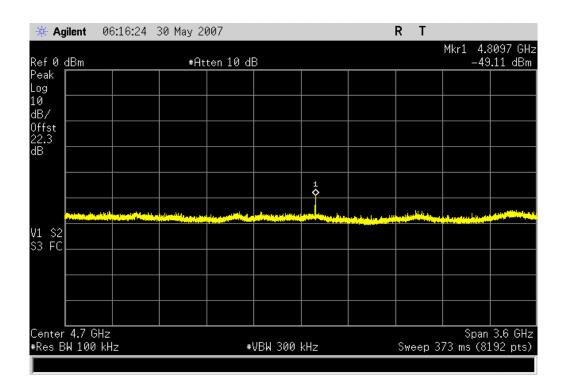
Low Channel, 0 - 3 GHz

Result: Pass Value: < -30 dBc Limit: ≤ -20 dBc



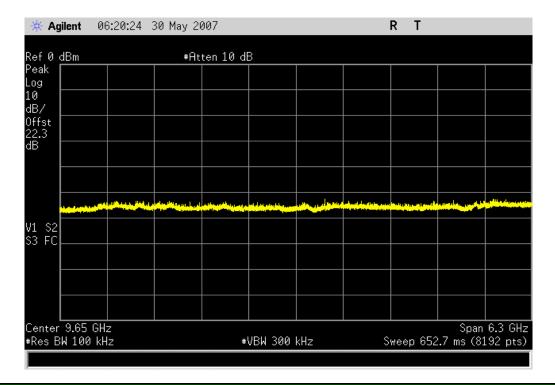
 Low Channel, 2.9 GHz - 6.5 GHz

 Result: Pass
 Value: < -30 dBc</th>
 Limit: ≤ -20 dBc



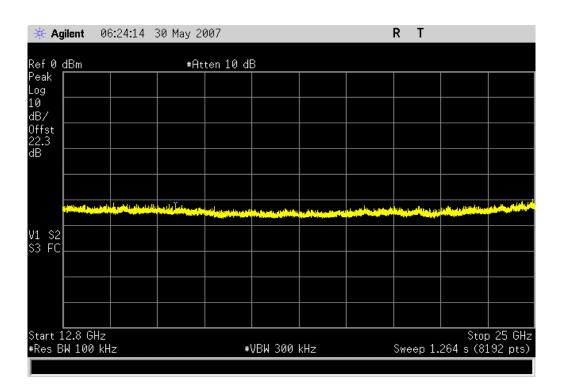
Low Channel, 6.5 GHz - 12.8 GHz

Result: Pass Value: < -30 dBc Limit: ≤ -20 dBc



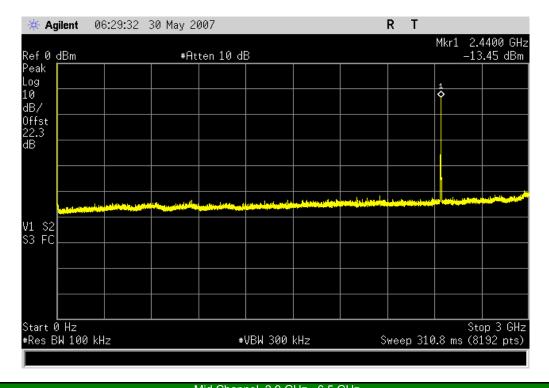
 Low Channel, 12.8 GHz - 25 GHz

 Result: Pass
 Value: < -30 dBc</th>
 Limit: ≤ -20 dBc



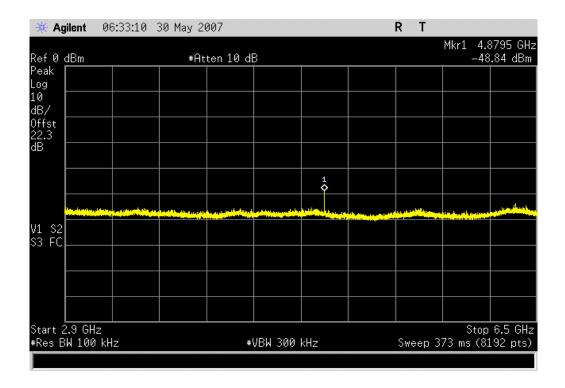
Mid Channel, 0 - 3 GHz

Result: Pass Value: < -30 dBc Limit: ≤ -20 dBc



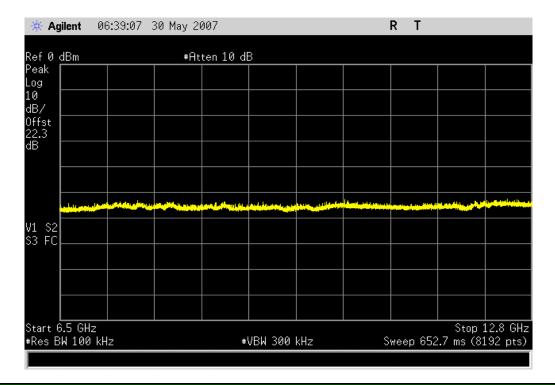
 Mid Channel, 2.9 GHz - 6.5 GHz

 Result: Pass
 Value: < -30 dBc</th>
 Limit: ≤ -20 dBc



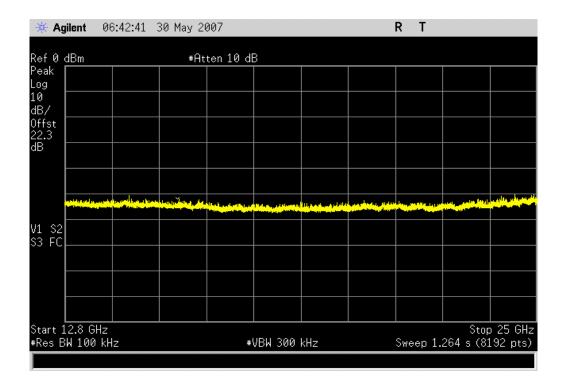
 Mid Channel, 6.5 GHz - 12.8 GHz

 Result: Pass
 Value: < -30 dBc</th>
 Limit: ≤ -20 dBc

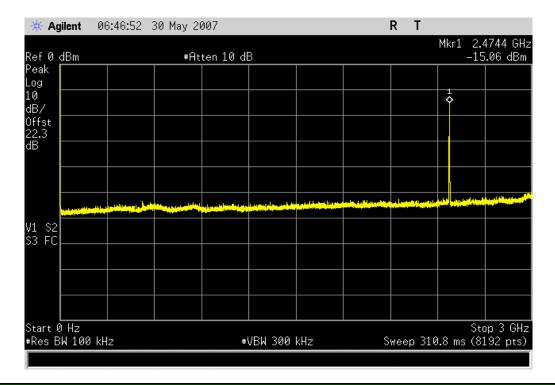


 Mid Channel, 12.8 GHz - 25 GHz

 Result: Pass
 Value: < -30 dBc</th>
 Limit: ≤ -20 dBc

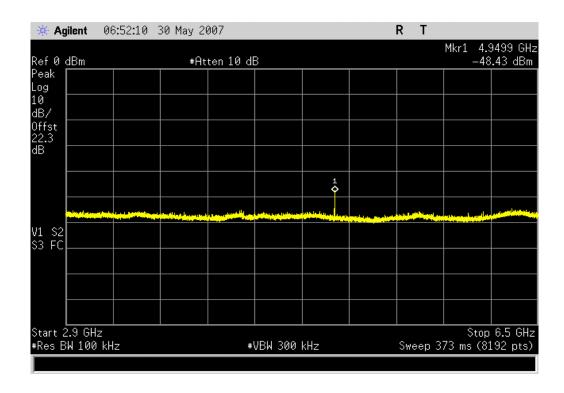






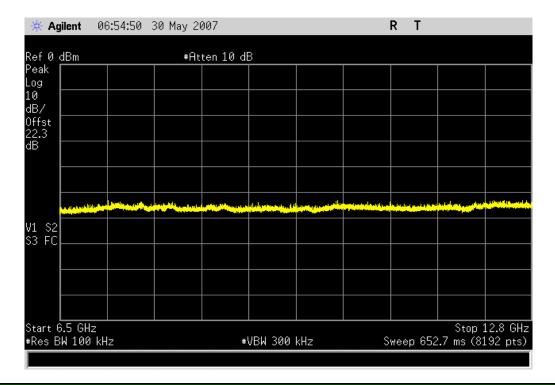
 High Channel, 2.9 GHz - 6.5 GHz

 Result: Pass
 Value: -31.32 dBc
 Limit: ≤ -20 dBc



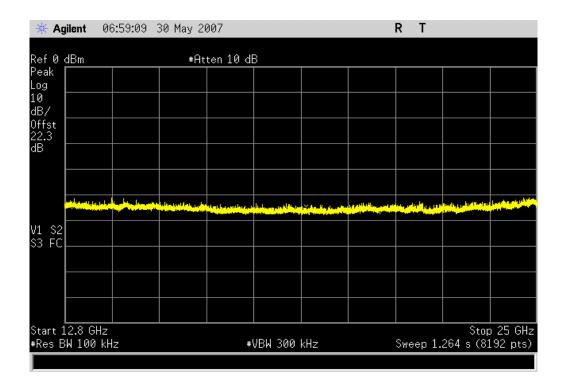
High Channel, 6.5 GHz - 12.8 GHz

Result: Pass Value: < -30 dBc Limit: ≤ -20 dBc

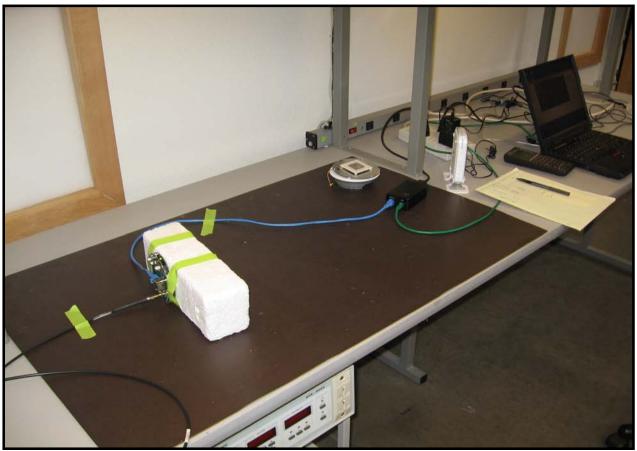


High Channel, 12.8 GHz - 25 GHz

Result: Pass Value: < -30 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 | E4407B | AAU | 12/8/2006 | 13 |
| Signal Generator | Hewlett-Packard | 8648D | TGC | 12/7/2006 | 13 |
| Power Meter | Gigatronics | 8651A | SPM | 9/19/2006 | 12 |
| Power Sensor | Gigatronics | 80701A | SPL | 9/19/2006 | 12 |

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

The peak power spectral density measurements were measured with the EUT set to low, mid, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate. Per the procedure outlined in FCC 97-114, the spectrum analyzer was used as follows:

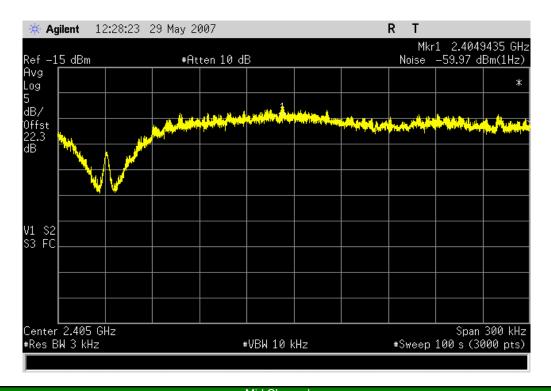
The emission peak(s) were located and zoom in on within the passband. The resolution bandwidth was set to 3 kHz, the video bandwidth was set to greater than or equal to the resolution bandwidth. The sweep speed was set equal to the span divided by 3 kHz (sweep = (SPAN/3 kHz)). For example, given a span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

"If the spectrum line spacing cannot be resolved on the available spectrum analyzer, the noise density function on most modern conventional spectrum analyzers will directly measure the noise power density normalized to a 1 Hz noise power bandwidth. Add 34.8 dB for correction to 3 kHz."

| NORTHWEST | | | EDAL DENG | 177 | | XMit 2007.03.30 |
|-------------------|----------------------------|------------|--------------|-------------------------|---------------------|-----------------|
| EMC | | POWER SPEC | IRAL DENS | SHY | | |
| EUT: | NetGuard Reuseable | | | | Work Order: STRA00 | 04 |
| Serial Number: | 00A037FFFF800040 | | | | Date: 05/29/07 | |
| Customer: | Stratos Product Developmer | t Group | | | emperature: 24°C | |
| Attendees: | Brian Read | | | | Humidity: 32% | |
| Project: | None | | | Baro | metric Pres.: 30.23 | |
| | Rod Peloquin | | Power: 3 VDC | | Job Site: EV06 | |
| TEST SPECIFICAT | IONS | | Test Meth | • • | | |
| FCC 15.247:2006 D | TS | | ANSI C63 | .4:2003, KDB No. 558074 | | |
| | | | | | | |
| COMMENTS | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| DEVIATIONS FROM | M TEST STANDARD | | | | | |
| | | | | | | |
| o | 40 | Rochy le | Pelen | | | |
| Configuration # | 10 | | | | | |
| | | Signature | | | | |
| | | | | Value | Limit | Results |
| Low Channel | | | | -25.17 dBm / 3 kHz | 8 dBm / 3 kHz | Pass |
| Mid Channel | | | | -26.75 dBm / 3 kHz | 8 dBm / 3 kHz | Pass |
| High Channel | | | | -25.87 dBm / 3 kHz | 8 dBm / 3 kHz | Pass |

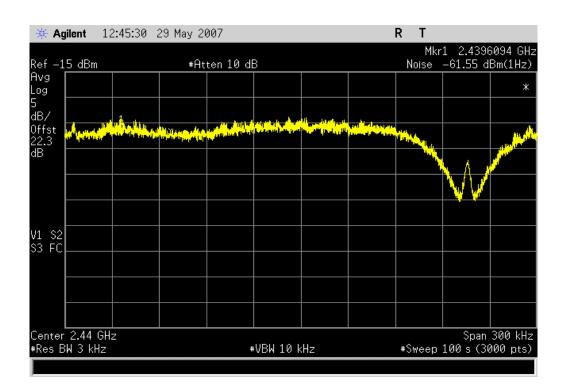
Low Channel

Result: Pass Value: -25.17 dBm / 3 kHz Limit: 8 dBm / 3 kHz



Mid Channel

Result: Pass Value: -26.75 dBm / 3 kHz Limit: 8 dBm / 3 kHz



| High Channel | | | | | |
|--------------|---------------------------|--------|---------------|--|--|
| Result: Pass | Value: -25.87 dBm / 3 kHz | Limit: | 8 dBm / 3 kHz | | |

