

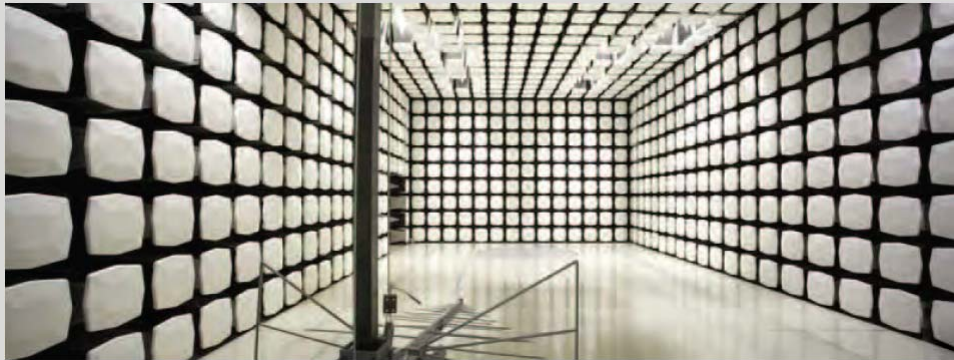


**Nonin Medical, Inc.**

**X-100 System**

**FCC 15.247:2012**

**Report #: NONN0078**



Report Prepared By Northwest EMC Inc.

NORTHWEST EMC – (888) 364-2378 – [www.nwemc.com](http://www.nwemc.com)

California – Minnesota – Oregon – New York – Washington

# CERTIFICATE OF TEST

**Last Date of Test: November 06, 2012**  
**Nonin Medical, Inc.**  
**Model: X-100 System**

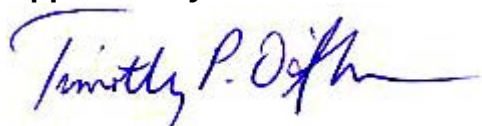
## Emissions

| Test Description   | Specification   | Test Method      | Pass/Fail |
|--------------------|-----------------|------------------|-----------|
| Spurious Emissions | FCC 15.247:2012 | ANSI C63.10:2009 | Pass      |

## Deviations From Test Standards

None

## Approved By:



Tim O'Shea, Operations Manager



**NVLAP Lab Code: 200881-0**

## Test Facility

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

Northwest EMC, Inc.  
9349 W Broadway Ave.  
Brooklyn Park, MN 55445

Phone: (763) 425-2281      Fax: (763) 424-3469

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site filing #2834E-1).

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

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

# REVISION HISTORY

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

## Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

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## United States

**FCC** - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

**A2LA** - Accredited by A2LA to ISO / IEC Guide 65 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

**NVLAP** - Each laboratory is accredited by NVLAP to ISO 17025

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## Canada

**IC** - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

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## European Union

**European Commission** – Validated by the European Commission as a Conformity Assessment Body (CAB) under the EMC directive and as a Notified Body under the R&TTE Directive.

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## Australia/New Zealand

**ACMA** - Recognized by ACMA as a CAB for the acceptance of test data.

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## Korea

**KCC / RRA** - Recognized by KCC's RRA as a CAB for the acceptance of test data.

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## Japan

**VCCI** - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

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## Taiwan

**BSMI** – Recognized by BSMI as a CAB for the acceptance of test data.

**NCC** - Recognized by NCC as a CAB for the acceptance of test data.

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## Singapore

**IDA** – Recognized by IDA as a CAB for the acceptance of test data.

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## Hong Kong

**OFTA** – Recognized by OFTA as a CAB for the acceptance of test data.

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## Vietnam

**MIC** – Recognized by MIC as a CAB for the acceptance of test data.

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## Russia

**GOST** – Accredited by Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC to perform EMC and Hygienic testing for Information Technology products to GOST standards.

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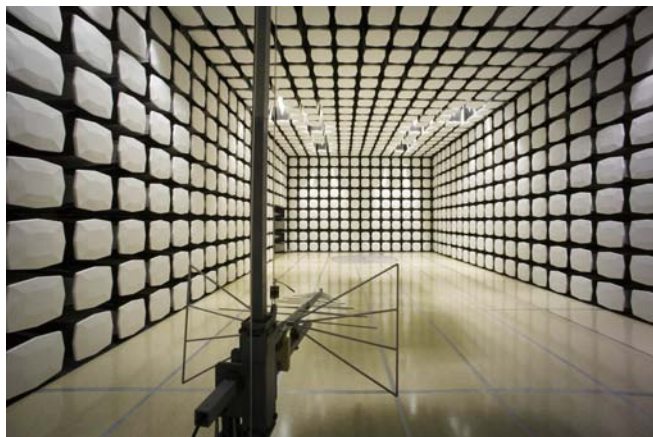
## SCOPE

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

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



|                                                                                                           |                                                                                       |                                                                                              |                                                                                                         |                                                                                                              |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Oregon</b><br>Labs EV01-EV12<br>22975 NW Evergreen Pkwy, #400<br>Hillsboro, OR 97124<br>(503) 844-4066 | <b>California</b><br>Labs OC01-OC13<br>41 Tesla<br>Irvine, CA 92618<br>(949) 861-8918 | <b>New York</b><br>Labs WA01-WA04<br>4939 Jordan Rd.<br>Elbridge, NY 13060<br>(315) 685-0796 | <b>Minnesota</b><br>Labs MN01-MN08<br>9349 W Broadway Ave.<br>Brooklyn Park, MN 55445<br>(763) 425-2281 | <b>Washington</b><br>Labs SU01-SU07<br>14128 339 <sup>th</sup> Ave. SE<br>Sultan, WA 98294<br>(360) 793-8675 |
| <b>VCCI</b>                                                                                               |                                                                                       |                                                                                              |                                                                                                         |                                                                                                              |
| A-0108                                                                                                    | A-0029                                                                                |                                                                                              | A-0109                                                                                                  | A-0110                                                                                                       |
| <b>Industry Canada</b>                                                                                    |                                                                                       |                                                                                              |                                                                                                         |                                                                                                              |
| 2834D-1, 2834D-2                                                                                          | 2834B-1, 2834B-2, 2834B-3                                                             |                                                                                              | 2834E-1                                                                                                 | 2834C-1                                                                                                      |





# PRODUCT DESCRIPTION

## Client and Equipment Under Test (EUT) Information

|                                 |                         |
|---------------------------------|-------------------------|
| <b>Company Name:</b>            | Nonin Medical, Inc.     |
| <b>Address:</b>                 | 13700 1st Avenue North  |
| <b>City, State, Zip:</b>        | Plymouth, MN 55441-5443 |
| <b>Test Requested By:</b>       | Brodie Pedersen         |
| <b>Model:</b>                   | X-100 System            |
| <b>First Date of Test:</b>      | November 06, 2012       |
| <b>Last Date of Test:</b>       | November 06, 2012       |
| <b>Receipt Date of Samples:</b> | November 06, 2012       |
| <b>Equipment Design Stage:</b>  | Production              |
| <b>Equipment Condition:</b>     | No Damage               |

## Information Provided by the Party Requesting the Test

|                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Functional Description of the EUT (Equipment Under Test):</b>                                                                                                        |
| Pulse Oximetry                                                                                                                                                          |
| <b>Testing Objective:</b>                                                                                                                                               |
| To demonstrate compliance of the spurious emissions to FCC Part 15.247 specifications. Other requirements apply that were not evaluated as part of this testing effort. |

## Configuration NONN0078- 1

| EUT         |                     |                   |               |
|-------------|---------------------|-------------------|---------------|
| Description | Manufacturer        | Model/Part Number | Serial Number |
| Monitor     | Nonin Medical, Inc. | X-100M/8366-001   | RD15672       |

| Peripherals in test setup boundary |                     |                     |               |
|------------------------------------|---------------------|---------------------|---------------|
| Description                        | Manufacturer        | Model/Part Number   | Serial Number |
| Hub                                | Nonin Medical, Inc. | X-100H/8516-001     | RD15600       |
| Signal Processor                   | Nonin Medical, Inc. | X-100SP-1/8422-001  | RD15560       |
| Signal Processor                   | Nonin Medical, Inc. | X-100SP-2/8422-002  | RD15569       |
| Signal Processor                   | Nonin Medical, Inc. | X-100SP-3/8422-003  | RD15574       |
| Signal Processor                   | Nonin Medical, Inc. | X-100SP-4/8422-004  | RD15583       |
| Signal Processor                   | Nonin Medical, Inc. | X-100SP-5/8422-005  | RD15590       |
| Signal Processor                   | Nonin Medical, Inc. | X-100SP-6/8422-006  | RD15594       |
| Pulse Sensor 1                     | Nonin Medical, Inc. | 8100SM/8533-002     | Proto 1602    |
| Regional Sensor 2                  | Nonin Medical, Inc. | 8004CB/7917-001     | 22649         |
| Regional Sensor 3                  | Nonin Medical, Inc. | 8004CB-NA/8766-001  | 27682         |
| Regional Sensor 4                  | Nonin Medical, Inc. | 8004CB-NA/8766-001  | 27682         |
| Regional Sensor 5                  | Nonin Medical, Inc. | 8004CA/7914-001     | 27692         |
| Regional Sensor 6                  | Nonin Medical, Inc. | 8004CB/7917-001     | 22649         |
| Medical Power Supply               | PEI-Genesis         | MPP30M-005/8140-005 | 3512P         |
| Regional Phantom                   | Nonin Medical, Inc. | None/8017-002       | 501333810     |
| Regional Phantom                   | Nonin Medical, Inc. | None/8017-002       | 501211003     |
| Regional Phantom                   | Nonin Medical, Inc. | None/8017-002       | 501333809     |
| Regional Phantom                   | Nonin Medical, Inc. | None/8017-002       | 501333808     |
| Regional Phantom                   | Nonin Medical, Inc. | None/8017-002       | 501333807     |
| Burn-In Simulator                  | Nonin Medical, Inc. | None/2107-000       | RD11799       |
| Extension Cables (x6)              | Nonin Medical, Inc. | X-100EC2/8445-002   | 636061        |

| Cables                                                                                                  |        |            |         |                      |                      |
|---------------------------------------------------------------------------------------------------------|--------|------------|---------|----------------------|----------------------|
| Cable Type                                                                                              | Shield | Length (m) | Ferrite | Connection 1         | Connection 2         |
| AC Power Cable                                                                                          | Yes    | 2.0m       | No      | AC Mains             | Medical Power Supply |
| DC Power Cable                                                                                          | Yes    | 2.0m       | Yes     | Medical Power Supply | X-100M               |
| Null Modem Cable                                                                                        | Yes    | 3.0m       | No      | X-100M               | Terminated           |
| Nursecall Cable                                                                                         | Yes    | 2.0m       | No      | X-100M               | Unterminated         |
| Pulse Sensor 1 Cable                                                                                    | Yes    | 0.40m      | No      | X-100SP-1            | Pulse Sensor 1       |
| Regional Sensor 2 Cable                                                                                 | Yes    | 0.40m      | No      | X-100SP-2 Cable      | Regional Sensor 2    |
| Regional Sensor 3 Cable                                                                                 | Yes    | 0.40m      | No      | X-100SP-3 Cable      | Regional Sensor 3    |
| Regional Sensor 4 Cable                                                                                 | Yes    | 0.40m      | No      | X-100SP-4 Cable      | Regional Sensor 4    |
| Regional Sensor 5 Cable                                                                                 | Yes    | 0.40m      | No      | X-100SP-5 Cable      | Regional Sensor 5    |
| Regional Sensor 6 Cable                                                                                 | Yes    | 0.40m      | No      | X-100SP-6 Cable      | Regional Sensor 6    |
| X-100SP-1 Cable                                                                                         | Yes    | 0.74m      | No      | X-100EC              | X-100SP-1            |
| X-100SP-2 Cable                                                                                         | Yes    | 0.74m      | No      | X-100EC              | X-100SP-2            |
| X-100SP-3 Cable                                                                                         | Yes    | 0.74m      | No      | X-100EC              | X-100SP-3            |
| X-100SP-4 Cable                                                                                         | Yes    | 0.74m      | No      | X-100EC              | X-100SP-4            |
| X-100SP-5 Cable                                                                                         | Yes    | 0.74m      | No      | X-100EC              | X-100SP-5            |
| X-100SP-6 Cable                                                                                         | Yes    | 0.74m      | No      | X-100EC              | X-100SP-6            |
| X-100EC Cable (x6)                                                                                      | Yes    | 2.0m       | No      | X-100H               | X-100SP Cable        |
| X-100H Cable                                                                                            | Yes    | 4.0m       | No      | X-100M               | X-100H               |
| *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    | 11/6/2012 | Spurious Emissions | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | Scheduled testing was completed. |

## Spurious 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. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

### MODES OF OPERATION

Transmitting Low (2402 MHz), Mid(2440 MHz), High(2480 MHz). DH5, 2DH5, 3DH5.

### POWER SETTINGS INVESTIGATED

110VAC/60Hz

### CONFIGURATIONS INVESTIGATED

NONN0078 - 1

### 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

### TEST EQUIPMENT

| Description       | Manufacturer    | Model                             | ID  | Last Cal.  | Interval |
|-------------------|-----------------|-----------------------------------|-----|------------|----------|
| Spectrum Analyzer | Agilent         | E4446A                            | AAT | 6/28/2012  | 12 mo    |
| Pre-Amplifier     | Miteq           | JSD4-18002600-26-8P               | APU | 10/5/2012  | 12 mo    |
| MN05 Cables       | N/A             | 18-26GHz Standard Gain Horn Cable | MNP | 10/5/2012  | 12 mo    |
| Antenna, Horn     | ETS             | 3160-09                           | AHG | NCR        | 0 mo     |
| Pre-Amplifier     | Miteq           | AMF-6F-12001800-30-10P            | AVW | 5/30/2012  | 12 mo    |
| Antenna, Horn     | ETS Lindgren    | 3160-08                           | AIQ | NCR        | 0 mo     |
| MN05 Cables       | ESM Cable Corp. | Standard Gain Horn Cables         | MNJ | 5/30/2012  | 12 mo    |
| Pre-Amplifier     | Miteq           | AMF-6F-08001200-30-10P            | AVV | 5/30/2012  | 12 mo    |
| Antenna, Horn     | ETS             | 3160-07                           | AXP | NCR        | 0 mo     |
| Pre-Amplifier     | Miteq           | AMF-3D-00100800-32-13P            | AVX | 5/30/2012  | 12 mo    |
| MN05 Cables       | ESM Cable Corp. | Double Ridge Guide Horn Cables    | MNI | 5/30/2012  | 12 mo    |
| Antenna, Bilog    | Teseq           | CBL 6141B                         | AYD | 12/19/2011 | 12 mo    |

### MEASUREMENT BANDWIDTHS

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

### 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. A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.



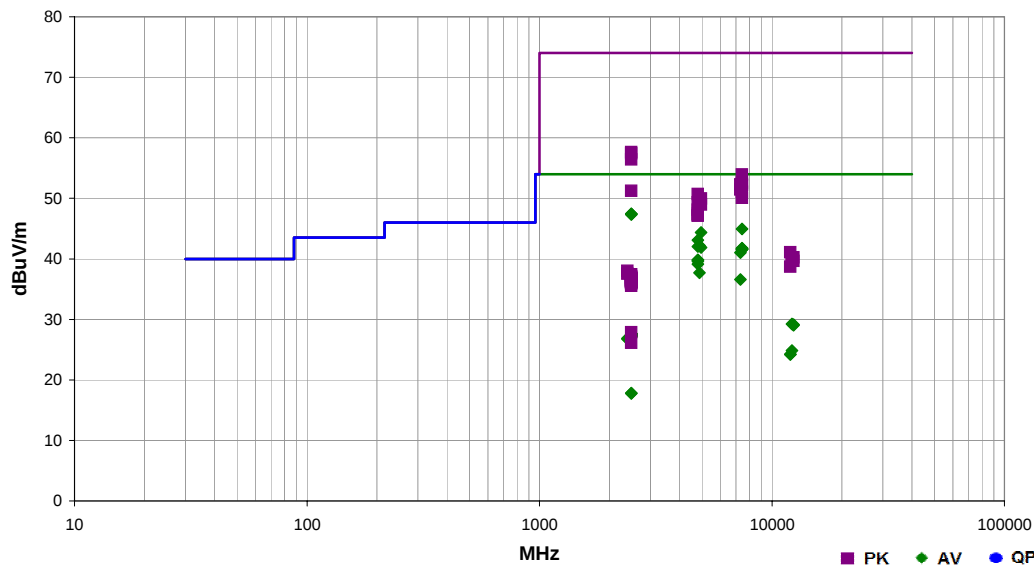
## Spurious Emissions

PSA-ESCI 2012.09.25  
PSA-ESCI Version 2011.12.21

|                 |                                                                              |                   |             |                     |
|-----------------|------------------------------------------------------------------------------|-------------------|-------------|---------------------|
| Work Order:     | NONN0078                                                                     | Date:             | 11/06/12    | <i>Bryan Weller</i> |
| Project:        | None                                                                         | Temperature:      | 22.9 °C     |                     |
| Job Site:       | MN05                                                                         | Humidity:         | 27.35% RH   |                     |
| Serial Number:  | RD15672                                                                      | Barometric Pres.: | 1008.3 mbar |                     |
| EUT:            | X-100 System                                                                 |                   |             |                     |
| Configuration:  | 1                                                                            |                   |             |                     |
| Customer:       | Nonin Medical, Inc                                                           |                   |             |                     |
| Attendees:      | Brodie Pedersen                                                              |                   |             |                     |
| EUT Power:      | 110VAC/60Hz                                                                  |                   |             |                     |
| Operating Mode: | Transmitting Low (2402 MHz), Mid(2440 MHz), High(2480 MHz). DH5, 2DH5, 3DH5. |                   |             |                     |
| Deviations:     | None                                                                         |                   |             |                     |
| Comments:       | None                                                                         |                   |             |                     |

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

|       |   |                   |   |                   |      |         |      |
|-------|---|-------------------|---|-------------------|------|---------|------|
| Run # | 6 | Test Distance (m) | 3 | Antenna Height(s) | 1-4m | Results | Pass |
|-------|---|-------------------|---|-------------------|------|---------|------|



| Freq (MHz) | Amplitude (dBuV) | Factor (dB) | Antenna Height (meters) | Azimuth (degrees) | Test Distance (meters) | External Attenuation (dB) | Polarity/Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments                                   |
|------------|------------------|-------------|-------------------------|-------------------|------------------------|---------------------------|--------------------------|----------|--------------------------|-------------------|----------------------|------------------------|--------------------------------------------|
| 7440.013   | 32.3             | 12.6        | 1.1                     | 323.0             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 44.9              | 54.0                 | -9.1                   | High Channel 2480 MHz EUT Horizontal, DH5  |
| 4959.967   | 39.8             | 4.6         | 1.0                     | 189.0             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 44.4              | 54.0                 | -9.6                   | High Channel 2480 MHz EUT Horizontal, DH5  |
| 4804.020   | 39.1             | 4.0         | 1.0                     | 151.0             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 43.1              | 54.0                 | -10.9                  | Low Channel 2402 MHz EUT Vertical, DH5     |
| 4881.980   | 37.9             | 4.3         | 1.0                     | 171.0             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 42.2              | 54.0                 | -11.8                  | Mid Channel 2440 MHz EUT Vertical, DH5     |
| 4803.933   | 38.0             | 4.0         | 1.0                     | 203.0             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 42.0              | 54.0                 | -12.0                  | Low Channel 2402 MHz EUT Horizontal, DH5   |
| 4959.947   | 37.3             | 4.6         | 1.0                     | 215.0             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 41.9              | 54.0                 | -12.1                  | High Channel 2480 MHz EUT Vertical, DH5    |
| 7438.013   | 28.9             | 12.6        | 2.5                     | 165.0             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 41.5              | 54.0                 | -12.5                  | High Channel 2480 MHz EUT Vertical, DH5    |
| 7318.353   | 29.0             | 12.0        | 2.1                     | 149.0             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 41.0              | 54.0                 | -13.0                  | Mid Channel 2440 MHz EUT Vertical, DH5     |
| 4804.033   | 35.8             | 4.0         | 1.0                     | 174.0             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 39.8              | 54.0                 | -14.2                  | Low Channel 2402 MHz EUT Vertical, DH5     |
| 4803.980   | 35.8             | 4.0         | 1.0                     | 200.0             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 39.8              | 54.0                 | -14.2                  | Low Channel 2402 MHz EUT Horizontal, DH5   |
| 4803.960   | 35.6             | 4.0         | 1.0                     | 40.0              | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 39.6              | 54.0                 | -14.4                  | Low Channel 2402 MHz EUT on Back, DH5      |
| 4803.960   | 35.1             | 4.0         | 1.0                     | 288.0             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 39.1              | 54.0                 | -14.9                  | Low Channel 2402 MHz EUT on Back, DH5      |
| 4881.967   | 33.4             | 4.3         | 1.0                     | 208.0             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 37.7              | 54.0                 | -16.3                  | Mid Channel 2440.0 MHz EUT Horizontal, DH5 |
| 7318.107   | 24.6             | 12.0        | 1.6                     | 138.0             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 36.6              | 54.0                 | -17.4                  | Mid Channel 2440.0 MHz EUT Horizontal, DH5 |
| 7439.440   | 41.3             | 12.6        | 1.1                     | 323.0             | 3.0                    | 0.0                       | Horz                     | PK       | 0.0                      | 53.9              | 74.0                 | -20.1                  | High Channel 2480 MHz EUT Horizontal, DH5  |
| 7318.787   | 40.3             | 12.0        | 1.6                     | 138.0             | 3.0                    | 0.0                       | Horz                     | PK       | 0.0                      | 52.3              | 74.0                 | -21.7                  | Mid Channel 2440.0 MHz EUT Horizontal, DH5 |
| 7438.880   | 39.6             | 12.6        | 2.5                     | 165.0             | 3.0                    | 0.0                       | Vert                     | PK       | 0.0                      | 52.2              | 74.0                 | -21.8                  | High Channel 2480 MHz EUT Vertical, DH5    |
| 7321.160   | 39.4             | 12.0        | 2.1                     | 149.0             | 3.0                    | 0.0                       | Vert                     | PK       | 0.0                      | 51.4              | 74.0                 | -22.6                  | Mid Channel 2440 MHz EUT Vertical, DH5     |
| 4803.893   | 46.7             | 4.0         | 1.0                     | 151.0             | 3.0                    | 0.0                       | Vert                     | PK       | 0.0                      | 50.7              | 74.0                 | -23.3                  | Low Channel 2402 MHz EUT on Back, DH5      |
| 4960.107   | 45.4             | 4.6         | 1.0                     | 189.0             | 3.0                    | 0.0                       | Horz                     | PK       | 0.0                      | 50.0              | 74.0                 | -24.0                  | High Channel 2480 MHz EUT Horizontal, DH5  |
| 4881.733   | 45.5             | 4.3         | 1.0                     | 208.0             | 3.0                    | 0.0                       | Horz                     | PK       | 0.0                      | 49.8              | 74.0                 | -24.2                  | Mid Channel 2440.0 MHz EUT Horizontal, DH5 |
| 4881.907   | 45.3             | 4.3         | 1.0                     | 171.0             | 3.0                    | 0.0                       | Vert                     | PK       | 0.0                      | 49.6              | 74.0                 | -24.4                  | Mid Channel 2440 MHz EUT Vertical, DH5     |
| 4803.780   | 45.3             | 4.0         | 1.0                     | 203.0             | 3.0                    | 0.0                       | Horz                     | PK       | 0.0                      | 49.3              | 74.0                 | -24.7                  | Low Channel 2402 MHz EUT Horizontal, DH5   |
| 12198.130  | 35.4             | -6.1        | 1.0                     | 40.0              | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 29.3              | 54.0                 | -24.7                  | Mid Channel 2440 MHz EUT Horizontal, DH5   |
| 12398.000  | 34.8             | -5.7        | 1.0                     | 53.0              | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 29.1              | 54.0                 | -24.9                  | High Channel 2480 MHz EUT Horizontal, DH5  |
| 12398.010  | 34.7             | -5.7        | 1.0                     | 202.0             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 29.0              | 54.0                 | -25.0                  | High Channel 2480 MHz EUT Vertical, DH5    |
| 4960.140   | 44.4             | 4.6         | 1.0                     | 215.0             | 3.0                    | 0.0                       | Vert                     | PK       | 0.0                      | 49.0              | 74.0                 | -25.0                  | High Channel 2480 MHz EUT Vertical, DH5    |
| 4804.007   | 44.1             | 4.0         | 1.0                     | 174.0             | 3.0                    | 0.0                       | Horz                     | PK       | 0.0                      | 48.1              | 74.0                 | -25.9                  | Low Channel 2402 MHz EUT Vertical, DH5     |
| 4803.913   | 43.4             | 4.0         | 1.0                     | 40.0              | 3.0                    | 0.0                       | Horz                     | PK       | 0.0                      | 47.4              | 74.0                 | -26.6                  | Low Channel 2402 MHz EUT on Back, DH5      |
| 4803.867   | 43.2             | 4.0         | 1.0                     | 288.0             | 3.0                    | 0.0                       | Vert                     | PK       | 0.0                      | 47.2              | 74.0                 | -26.8                  | Low Channel 2402 MHz EUT on Back, DH5      |
| 4803.953   | 43.1             | 4.0         | 1.0                     | 200.0             | 3.0                    | 0.0                       | Vert                     | PK       | 0.0                      | 47.1              | 74.0                 | -26.9                  | Low Channel 2402 MHz EUT Horizontal, DH5   |
| 12198.010  | 31.0             | -6.1        | 3.5                     | 34.0              | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 24.9              | 54.0                 | -29.1                  | Mid Channel 2440 MHz EUT Vertical, DH5     |
| 12011.970  | 30.8             | -6.6        | 1.0                     | 116.0             | 3.0                    | 0.0                       | Vert                     | AV       | 0.0                      | 24.2              | 54.0                 | -29.8                  | Low Channel 2402 MHz EUT Vertical, DH5     |
| 12011.980  | 30.8             | -6.6        | 1.0                     | 210.0             | 3.0                    | 0.0                       | Horz                     | AV       | 0.0                      | 24.2              | 54.0                 | -29.8                  | Low Channel 2402 MHz EUT Horizontal, DH5   |

| Freq<br>(MHz) | Amplitude<br>(dBuV) | Factor<br>(dB) | Antenna Height<br>(meters) | Azimuth<br>(degrees) | Test Distance<br>(meters) | External<br>Attenuation<br>(dB) | Polarity/<br>Transducer<br>Type | Detector | Distance<br>Adjustment<br>(dB) | Adjusted<br>(dBuV/m) | Spec. Limit<br>(dBuV/m) | Compared to<br>Spec.<br>(dB) | Comments                                   |
|---------------|---------------------|----------------|----------------------------|----------------------|---------------------------|---------------------------------|---------------------------------|----------|--------------------------------|----------------------|-------------------------|------------------------------|--------------------------------------------|
| 12010.430     | 47.7                | -6.6           | 1.0                        | 116.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 41.1                 | 74.0                    | -32.9                        | Low Channel 2402 MHz EUT Vertical, DH5     |
| 12198.810     | 46.4                | -6.1           | 3.5                        | 34.0                 | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 40.3                 | 74.0                    | -33.7                        | Mid Channel 2440 MHz EUT Vertical, DH5     |
| 12398.920     | 45.9                | -5.7           | 1.0                        | 53.0                 | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 40.2                 | 74.0                    | -33.8                        | High Channel 2480 MHz EUT Horizontal, DH5  |
| 12198.550     | 46.3                | -6.1           | 1.0                        | 40.0                 | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 40.2                 | 74.0                    | -33.8                        | Mid Channel 2440 MHz EUT Horizontal, DH5   |
| 12399.250     | 45.3                | -5.7           | 1.0                        | 202.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 39.6                 | 74.0                    | -34.4                        | High Channel 2480 MHz EUT Vertical, DH5    |
| 12011.740     | 45.3                | -6.6           | 1.0                        | 210.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 38.7                 | 74.0                    | -35.3                        | Low Channel 2402 MHz EUT Horizontal, DH5   |
| 2486.780      | 31.2                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 20.0                            | Vert                            | AV       | 0.0                            | 47.4                 | 54.0                    | -6.6                         | High Channel 2480 MHz EUT Horizontal, 3DH5 |
| 2486.053      | 31.2                | -3.8           | 1.0                        | 160.0                | 3.0                       | 20.0                            | Horz                            | AV       | 0.0                            | 47.4                 | 54.0                    | -6.6                         | High Channel 2480 MHz EUT On Back, 3DH5    |
| 2487.080      | 31.1                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 20.0                            | Vert                            | AV       | 0.0                            | 47.3                 | 54.0                    | -6.7                         | High Channel 2480 MHz EUT Horizontal, 3DH5 |
| 2484.207      | 41.4                | -3.8           | 1.0                        | 160.0                | 3.0                       | 20.0                            | Horz                            | PK       | 0.0                            | 57.6                 | 74.0                    | -16.4                        | High Channel 2480 MHz EUT Horizontal, 3DH5 |
| 2485.967      | 41.2                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 20.0                            | Vert                            | PK       | 0.0                            | 57.4                 | 74.0                    | -16.6                        | High Channel 2480 MHz EUT On Back, 3DH5    |
| 2483.573      | 40.2                | -3.8           | 1.0                        | 160.0                | 3.0                       | 20.0                            | Horz                            | PK       | 0.0                            | 56.4                 | 74.0                    | -17.6                        | High Channel 2480 MHz EUT On Back, 3DH5    |
| 2485.553      | 35.0                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 20.0                            | Vert                            | PK       | 0.0                            | 51.2                 | 74.0                    | -22.8                        | High Channel 2480 MHz EUT Horizontal, 3DH5 |
| 2483.733      | 31.4                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 27.6                 | 54.0                    | -26.4                        | High Channel 2480 MHz EUT Vertical, 3DH5   |
| 2485.587      | 31.3                | -3.8           | 1.3                        | 251.0                | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 27.5                 | 54.0                    | -26.5                        | Low Channel 2402 MHz EUT Vertical, DH5     |
| 2484.793      | 31.3                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 27.5                 | 54.0                    | -26.5                        | Low Channel 2402 MHz EUT Vertical, 3DH5    |
| 2484.700      | 31.3                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 27.5                 | 54.0                    | -26.5                        | Low Channel 2402 MHz EUT on Back, 3DH5     |
| 2484.180      | 31.3                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.5                 | 54.0                    | -26.5                        | Low Channel 2402 MHz EUT on Back, 3DH5     |
| 2483.967      | 31.3                | -3.8           | 1.3                        | 251.0                | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 27.5                 | 54.0                    | -26.5                        | Low Channel 2402 MHz EUT on Back, DH5      |
| 2483.980      | 31.3                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.5                 | 54.0                    | -26.5                        | Low Channel 2402 MHz EUT on Back, DH5      |
| 2483.793      | 31.3                | -3.8           | 1.0                        | 160.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.5                 | 54.0                    | -26.5                        | High Channel 2480 MHz EUT Vertical, DH5    |
| 2483.740      | 31.3                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.5                 | 54.0                    | -26.5                        | Low Channel 2402 MHz EUT Vertical, DH5     |
| 2483.587      | 31.3                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.5                 | 54.0                    | -26.5                        | Low Channel 2402 MHz EUT Vertical, 3DH5    |
| 2486.580      | 31.2                | -3.8           | 1.0                        | 160.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.4                 | 54.0                    | -26.6                        | High Channel 2480 MHz EUT Vertical, 3DH5   |
| 2486.287      | 31.2                | -3.8           | 1.0                        | 160.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.4                 | 54.0                    | -26.6                        | High Channel 2480 MHz EUT on Back, DH5     |
| 2485.227      | 31.2                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 27.4                 | 54.0                    | -26.6                        | Low Channel 2402 MHz EUT on Back, 2DH5     |
| 2485.167      | 31.2                | -3.8           | 1.0                        | 160.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.4                 | 54.0                    | -26.6                        | High Channel 2480 MHz EUT On Back, 3DH5    |
| 2485.167      | 31.2                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 27.4                 | 54.0                    | -26.6                        | High Channel 2480 MHz EUT Vertical, DH5    |
| 2484.773      | 31.2                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 27.4                 | 54.0                    | -26.6                        | High Channel 2480 MHz EUT on Back, DH5     |
| 2484.787      | 31.2                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 27.4                 | 54.0                    | -26.6                        | High Channel 2480 MHz EUT On Back, 2DH5    |
| 2484.673      | 31.2                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 27.4                 | 54.0                    | -26.6                        | Low Channel 2402 MHz EUT On Back, 2DH5     |
| 2483.967      | 31.2                | -3.8           | 1.4                        | 160.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.4                 | 54.0                    | -26.6                        | High Channel 2480 MHz EUT On Back, 2DH5    |
| 2483.887      | 31.2                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.4                 | 54.0                    | -26.6                        | Low Channel 2402 MHz EUT on Back, 2DH5     |
| 2483.660      | 31.2                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.4                 | 54.0                    | -26.6                        | Low Channel 2402 MHz EUT On Back, 2DH5     |
| 2487.007      | 31.1                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.3                 | 54.0                    | -26.7                        | Low Channel 2402 MHz EUT Horizontal, 3DH5  |
| 2484.953      | 31.1                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.3                 | 54.0                    | -26.7                        | Low Channel 2402 MHz EUT Horizontal, 2DH5  |
| 2484.487      | 31.1                | -3.8           | 1.0                        | 160.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.3                 | 54.0                    | -26.7                        | High Channel 2480 MHz EUT Horizontal, DH5  |
| 2484.047      | 31.1                | -3.8           | 1.0                        | 160.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 27.3                 | 54.0                    | -26.7                        | High Channel 2480 MHz EUT Vertical, 2DH5   |
| 2483.680      | 31.1                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 27.3                 | 54.0                    | -26.7                        | High Channel 2480 MHz EUT Vertical, 2DH5   |
| 2485.427      | 31.0                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 27.2                 | 54.0                    | -26.8                        | Low Channel 2402 MHz EUT Horizontal, 3DH5  |
| 2484.967      | 30.9                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 27.1                 | 54.0                    | -26.9                        | High Channel 2480 MHz EUT Horizontal, DH5  |
| 2484.487      | 30.9                | -3.8           | 1.3                        | 251.0                | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 27.1                 | 54.0                    | -26.9                        | Low Channel 2402 MHz EUT Horizontal, 2DH5  |
| 2392.420      | 30.9                | -4.1           | 2.3                        | 303.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 26.8                 | 54.0                    | -27.2                        | Low Channel 2402 MHz EUT Horizontal, DH5   |
| 2390.600      | 30.8                | -4.0           | 1.3                        | 251.0                | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 26.8                 | 54.0                    | -27.2                        | Low Channel 2402 MHz EUT Horizontal, DH5   |
| 2392.133      | 42.1                | -4.1           | 1.3                        | 251.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 38.0                 | 74.0                    | -36.0                        | Low Channel 2402 MHz EUT Horizontal, DH5   |
| 2485.273      | 21.6                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 17.8                 | 54.0                    | -36.2                        | High Channel 2480 MHz EUT Horizontal, 2DH5 |
| 2484.873      | 21.5                | -3.8           | 1.0                        | 160.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 17.7                 | 54.0                    | -36.3                        | High Channel 2480 MHz EUT Horizontal, 2DH5 |
| 2392.860      | 41.6                | -4.1           | 2.3                        | 303.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 37.5                 | 74.0                    | -36.5                        | Low Channel 2402 MHz EUT Horizontal, DH5   |
| 2483.587      | 41.2                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 37.4                 | 74.0                    | -36.6                        | Low Channel 2402 MHz EUT Vertical, DH5     |
| 2485.920      | 40.9                | -3.8           | 1.0                        | 160.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 37.1                 | 74.0                    | -36.9                        | High Channel 2480 MHz EUT On Back, 2DH5    |
| 2486.680      | 40.7                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 36.9                 | 74.0                    | -37.1                        | Low Channel 2402 MHz EUT On Back, 2DH5     |
| 2486.627      | 40.6                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 36.8                 | 74.0                    | -37.2                        | Low Channel 2402 MHz EUT on Back, 2DH5     |
| 2486.920      | 40.5                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 36.7                 | 74.0                    | -37.3                        | High Channel 2480 MHz EUT on Back, DH5     |
| 2486.093      | 40.5                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 36.7                 | 74.0                    | -37.3                        | High Channel 2480 MHz EUT Vertical, 3DH5   |
| 2485.127      | 40.5                | -3.8           | 1.0                        | 160.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 36.7                 | 74.0                    | -37.3                        | High Channel 2480 MHz EUT Vertical, DH5    |
| 2484.133      | 40.5                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 36.7                 | 74.0                    | -37.3                        | High Channel 2480 MHz EUT Vertical, 2DH5   |
| 2486.587      | 40.3                | -3.8           | 1.3                        | 251.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 36.5                 | 74.0                    | -37.5                        | Low Channel 2402 MHz EUT on Back, DH5      |
| 2485.207      | 40.3                | -3.8           | 1.0                        | 160.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 36.5                 | 74.0                    | -37.5                        | High Channel 2480 MHz EUT Vertical, 3DH5   |
| 2483.893      | 40.3                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 36.5                 | 74.0                    | -37.5                        | Low Channel 2402 MHz EUT on Back, 3DH5     |
| 2487.473      | 40.2                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 36.5                 | 74.0                    | -37.6                        | Low Channel 2402 MHz EUT on Back, DH5      |
| 2486.733      | 40.2                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 36.4                 | 74.0                    | -37.6                        | High Channel 2480 MHz EUT Vertical, DH5    |
| 2485.667      | 40.2                | -3.8           | 1.3                        | 251.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 36.4                 | 74.0                    | -37.6                        | Low Channel 2402 MHz EUT Vertical, DH5     |
| 2484.020      | 40.2                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 36.4                 | 74.0                    | -37.6                        | Low Channel 2402 MHz EUT on Back, 3DH5     |
| 2486.547      | 40.1                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 36.3                 | 74.0                    | -37.7                        | Low Channel 2402 MHz EUT Horizontal, 2DH5  |
| 2485.660      | 40.1                | -3.8           | 1.4                        | 160.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 36.3                 | 74.0                    | -37.7                        | High Channel 2480 MHz EUT on Back, DH5     |
| 2484.073      | 40.1                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 36.3                 | 74.0                    | -37.7                        | Low Channel 2402 MHz EUT Horizontal, 3DH5  |
| 2483.967      | 40.1                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 36.3                 | 74.0                    | -37.7                        | Low Channel 2402 MHz EUT Vertical, 3DH5    |
| 2485.233      | 40.0                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 36.2                 | 74.0                    | -37.8                        | Low Channel 2402 MHz EUT Vertical, 3DH5    |
| 2484.860      | 40.0                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 36.2                 | 74.0                    | -37.8                        | Low Channel 2402 MHz EUT on Back, 2DH5     |
| 2484.507      | 40.0                | -3.8           | 1.0                        | 160.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 36.2                 | 74.0                    | -37.8                        | High Channel 2480 MHz EUT Horizontal, DH5  |
| 2484.433      | 39.9                | -3.8           | 1.4                        | 160.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 36.1                 | 74.0                    | -37.9                        | High Channel 2480 MHz EUT Vertical, 2DH5   |
| 2483.613      | 39.9                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 36.1                 | 74.0                    | -37.9                        | High Channel 2480 MHz EUT Horizontal, DH5  |
| 2487.300      | 39.8                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 36.0                 | 74.0                    | -38.0                        | Low Channel 2402 MHz EUT On Back, 2DH5     |
| 2486.407      | 39.8                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 36.0                 | 74.0                    | -38.0                        | High Channel 2480 MHz EUT On Back, 2DH5    |
| 2485.120      | 39.6                | -3.8           | 2.3                        | 306.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 35.8                 | 74.0                    | -38.2                        | Low Channel 2402 MHz EUT Horizontal, 3DH5  |
| 2484.380      | 39.3                | -3.8           | 1.3                        | 251.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 35.5                 | 74.0                    | -38.5                        | Low Channel 2402 MHz EUT Horizontal, 2DH5  |
| 2484.760      | 31.6                | -3.8           | 1.0                        | 160.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 27.8                 | 74.0                    | -46.2                        | High Channel 2480 MHz EUT Horizontal, 2DH5 |
| 2483.640      | 29.9                | -3.8           | 1.4                        | 42.0                 | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 26.1                 | 74.0                    | -47.9                        | High Channel 2480 MHz EUT Horizontal, 2DH5 |
| 7439.540      | 29.1                | 12.6           | 1.0                        | 107.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 41.7                 | 54.0                    | -12.3                        | High Channel 2480 MHz EUT Horizontal, 2DH5 |
| 7439.033      | 29.0                | 12.6           | 1.0                        | 107.0                | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 41.6                 | 54.0                    | -12.4                        | High Channel 2480 MHz EUT Horizontal, 2DH5 |
| 7438.213      | 29.0                | 12.6           | 1.0                        | 107.0                | 3.0                       | 0.0                             | Horz                            | AV       | 0.0                            | 41.6                 | 54.0                    | -12.4                        | High Channel 2480 MHz EUT Horizontal, 3DH5 |
| 7438.106      | 28.9                | 12.6           | 1.0                        | 217.0                | 3.0                       | 0.0                             | Vert                            | AV       | 0.0                            | 41.5                 | 54.0                    | -12.5                        | High Channel 2480 MHz EUT Horizontal, 3DH5 |
| 7440.800      | 39.9                | 12.7           | 1.0                        | 107.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 52.6                 | 74.0                    | -21.4                        | High Channel 2480 MHz EUT Horizontal, 3DH5 |
| 7440.913      | 39.6                | 12.7           | 1.0                        | 217.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 52.3                 | 74.0                    | -21.7                        | High Channel 2480 MHz EUT Horizontal, 3DH5 |
| 7441.553      | 38.4                | 12.7           | 1.0                        | 107.0                | 3.0                       | 0.0                             | Horz                            | PK       | 0.0                            | 51.1                 | 74.0                    | -22.9                        | High Channel 2480 MHz EUT Horizontal, 2DH5 |
| 7440.986      | 37.4                | 12.7           | 1.0                        | 107.0                | 3.0                       | 0.0                             | Vert                            | PK       | 0.0                            | 50.1                 | 74.0                    | -23.9                        | High Channel 2480 MHz EUT Horizontal, 2DH5 |