



## Etherios Design Solutions

ConnectCore6 (i.MX6)

FCC 15.407:2014

Report # ETHE0008.11



NVLAP Lab Code: 200630-0

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

Last Date of Test: August 25, 2014  
Etherios Design Solutions  
Model: ConnectCore6 (i.MX6)

## Radio Equipment Testing

### Standards

| Specification   | Method           |
|-----------------|------------------|
| FCC 15.407:2014 | ANSI C63.10:2009 |

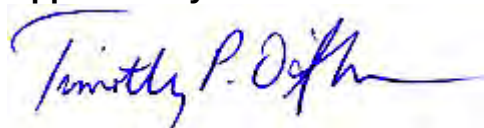
### Results

| Method Clause | Test Description                    | Applied | Results | Comments |
|---------------|-------------------------------------|---------|---------|----------|
| KDB 905462    | Channel Loading/Channel Utilization | Yes     | Pass    |          |
| KDB 905462    | Move Time                           | Yes     | Pass    |          |
| KDB 905462    | Closing Time                        | Yes     | Pass    |          |
| KDB 905462    | Non Occupancy Period                | Yes     | Pass    |          |

### Deviations From Test Standards

None

### Approved By:



Tim O'Shea, Operations Manager

# 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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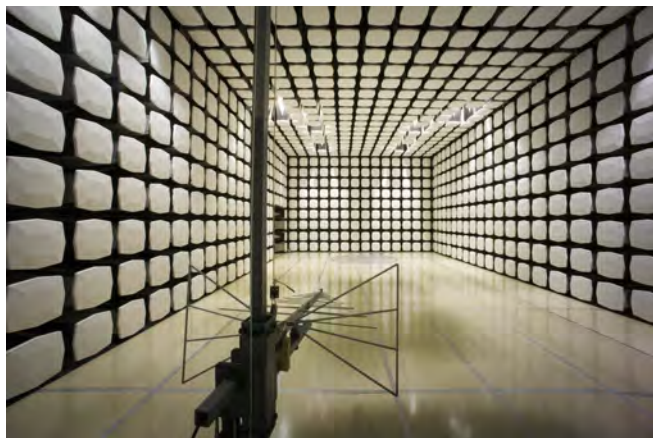
## SCOPE

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

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



|                                                                                                   |                                                                                     |                                                                                            |                                                                                                       |                                                                                                                         |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Oregon</b><br>Labs EV01-12<br>22975 NW Evergreen Pkwy<br>Hillsboro, OR 97124<br>(503) 844-4066 | <b>California</b><br>Labs OC01-13<br>41 Tesla<br>Irvine, CA 92618<br>(949) 861-8918 | <b>New York</b><br>Labs NY01-04<br>4939 Jordan Rd.<br>Elbridge, NY 13060<br>(315) 685-0796 | <b>Minnesota</b><br>Labs MN01-08<br>9349 W Broadway Ave.<br>Brooklyn Park, MN 55445<br>(763) 425-2281 | <b>Washington</b><br>Labs NC01-05, SU02, SU07<br>19201 120 <sup>th</sup> Ave. NE<br>Bothell, WA 98011<br>(425) 984-6600 |
| <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                                                                                               | 2834F-1                                                                                                                 |
| <b>NVLAP</b>                                                                                      |                                                                                     |                                                                                            |                                                                                                       |                                                                                                                         |
| NVLAP Lab Code: 200630-0                                                                          | NVLAP Lab Code: 200676-0                                                            | NVLAP Lab Code: 200761-0                                                                   | NVLAP Lab Code: 200881-0                                                                              | NVLAP Lab Code: 200629-0                                                                                                |





## Client and Equipment Under Test (EUT) Information

|                                 |                             |
|---------------------------------|-----------------------------|
| <b>Company Name:</b>            | Etherios Design Solutions   |
| <b>Address:</b>                 | 110 N 5th Street, Suite 400 |
| <b>City, State, Zip:</b>        | Minneapolis, MN 55413       |
| <b>Test Requested By:</b>       | Moshe Peri                  |
| <b>Model:</b>                   | ConnectCore6 (i.MX6)        |
| <b>First Date of Test:</b>      | August 25, 2014             |
| <b>Last Date of Test:</b>       | August 25, 2014             |
| <b>Receipt Date of Samples:</b> | August 05, 2014             |
| <b>Equipment Design Stage:</b>  | Production                  |
| <b>Equipment Condition:</b>     | No Damage                   |

## Information Provided by the Party Requesting the Test

### Functional Description of the EUT (Equipment Under Test):

The EUT is a client device and has no radar detection and no ad-hoc capability. The module contains an IEEE 802.11a/b/g/n radio (BT not populated), Dual Core i.MX6 processor, 1GB DDR3, 4GB eMMC

### Hardware, Firmware, and OS Versions:

Hardware version: 55001766-05

Firmware version: DUB-2.2.2.1

OS versions: 3.10.40-dey+g82b582da

### The operating frequency band(s) of the equipment.

The radio operates on channel center frequencies of 5.18–5.32 GHz, 5.50–5.70 GHz, and 5.745-5.825 GHz with Maximum occupied channel bandwidth of 20 MHz

### The operating modes (Master and/or Client) of the U-NII device.

Client device with no radar detection and no ad-hoc capability

### For Client devices, indicate whether or not it has DFS capabilities and indicate the FCC (and IC) identifier for the Master U-NII Device that is used with it for DFS testing.

The client does not have radar detection and no ad-hoc capability. A DFS-compliant Master device was used for testing. It's the CISCO Model AIR-SAP2602E-A-K9. FCC ID: LDK102080, IC: 2461B-102080

### List the highest and the lowest possible power level (equivalent isotropic radiated power (EIRP) of the equipment.

The maximum EIRP of the 5 GHz equipment is 18.1 dBm.

### Test sequences or messages that should be used for communication between Master and Client Devices, which are used for loading the Channel.

1. Stream the test file from the Master Device to the Client Device for IP based systems or frame based systems which dynamically allocate the talk/listen ratio.
2. For frame based systems with fixed talk/listen ratio, set the ratio to 45%/55% and stream the test file from the Master to the Client.
3. For other system architectures, supply appropriate Channel loading methodology.

Testing was performed with an audio file streamed from the Master Device to the Client Device. Channel loading was greater than 64%.

## **Transmit Power Control description.**

This device does not exceed 27dBm EIRP, so no transmit power control is implemented.

## **System architectures, data rates, U-NII Channel bandwidths.**

1. Indicate the type(s) of system architecture (e.g. IP based or Frame based) that the U-NII device employs. Each type of unique architecture must be tested.

IP / Load based system w/spectrum sharing mechanism based on IEEE 802.11 standard

## **The time required for the Master Device and/or Client Device to complete its power-on cycle.**

The Master device used in this test setup requires 1.44 minutes to complete its power-on cycle. The client device (EUT) does not have radar detection so its power-on time is not applicable.

## **Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.**

The client device (EUT) does not have radar detection, so the parameters of the Radar Waveforms are not available to the end user.

## **Uniform Channel Spreading requirement for Master Devices. For Master Devices, indicate how the master provides, on aggregate, uniform Channel loading of the spectrum across all Channels.**

The client device (EUT) does not have radar detection, so this requirement is not applicable.

**List all antenna assemblies and their corresponding gains.**

1. If radiated tests are to be performed, the U-NII Device should be tested with the lowest gain antenna assembly (regardless of antenna type). The report should indicate which antenna assembly was used for the tests. For devices with adjustable output power, list the output power range and the maximum EIRP for each antenna assembly.
2. If conducted tests are to be performed, indicate which antenna port/connection was used for the tests and the antenna assembly gain that was used to set the DFS Detection Threshold level during calibration of the test setup.
  - a. Indicate the calibrated conducted DFS Detection Threshold level.
  - b. For devices with adjustable output power, list the output power range and the maximum EIRP for each antenna assembly.
  - c. Indicate the antenna connector impedance. Ensure that the measurement instruments match (usually 50 Ohms) or use a minimum loss pad and take into account the conversion loss.
3. Antenna gain measurement verification for tested antenna.
  - a. Describe procedure
  - b. Describe the antenna configuration and how it is mounted
  - c. If an antenna cable is supplied with the device, cable loss needs to be taken into account. Indicate the maximum cable length and either measure the gain with this cable or adjust the measured gain accordingly. State the cable loss.

The EUT utilizes two antennas on two separate, identical antenna ports. The highest gain antennas to be used with the EUT are the Ethertronics 1001932 magnetic dipole with 5.0 dBi gain in the DFS bands. The DFS testing was done as a conducted setup on Port 1 which had provided the highest output power during FCC 15.407 certification testing.



## Configuration ETHE0008- 6

| EUT         |                           |                   |               |
|-------------|---------------------------|-------------------|---------------|
| Description | Manufacturer              | Model/Part Number | Serial Number |
| Module      | Etherios Design Solutions | 50001876-05       | 00409D7B8C9C  |

| Peripherals in test setup boundary |              |                   |               |
|------------------------------------|--------------|-------------------|---------------|
| Description                        | Manufacturer | Model/Part Number | Serial Number |
| Laptop                             | HP           | 6701b             | CNU8312CSS    |
| Laptop Supply                      | HP           | PPP017L           | 7Y00871803    |
| Power Supply                       | Agilent      | U8002A            | TPZ           |

| Cables        |        |            |         |               |               |
|---------------|--------|------------|---------|---------------|---------------|
| Cable Type    | Shield | Length (m) | Ferrite | Connection 1  | Connection 2  |
| USB To Serial | Yes    | 2.2m       | No      | Module        | Laptop        |
| DC Power      | No     | 1.5m       | Yes     | Module        | Power Supply  |
| DC Power      | No     | 1.8m       | Yes     | Laptop        | Laptop Supply |
| AC Power      | No     | 1.8m       | No      | Power Supply  | AC Mains      |
| AC Power      | No     | 1.8m       | No      | Laptop Supply | AC Mains      |

## Equipment Modifications

| Item | Date      | Test                                | Modification                         | Note                                                                | Disposition of EUT                                |
|------|-----------|-------------------------------------|--------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|
| 1    | 8/25/2014 | Channel Loading/Channel Utilization | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 2    | 8/25/2014 | Move Time                           | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 3    | 8/25/2014 | Closing Time                        | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Northwest EMC following the test. |
| 4    | 8/25/2014 | Non Occupancy Period                | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | Scheduled testing was completed.                  |

# INTRODUCTION & CLIENT DEVICE DFS CONFORMANCE

## Overview

For a Client Device without DFS, the Channel Move Time and Channel Closing Transmission Time requirements are verified with one Short Pulse Radar and one Long Pulse Radar. Non-occupancy period can be confirmed with either short or long pulses.

**Channel Closing Transmission Time:** The total duration of transmissions, consisting of data signals and the aggregate of control signals, by a U-NII device during the Channel Move Time.

**Channel Move Time:** The time to cease all transmissions on the current Channel upon detection of a Radar Waveform above the DFS Detection Threshold. A Client Device will not transmit before having received appropriate control signals from a Master Device. A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing Transmission Time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.

**Non-Occupancy Period:** Time during which both the client and master device shall not make any transmissions on a channel after a radar signal was detected on that channel. It should at least the minimum requirements but it can be more.

### **Applicability of DFS Requirements Prior to Use of a Channel**

| Requirement                     | Operational Mode |                      |                   |
|---------------------------------|------------------|----------------------|-------------------|
|                                 | Master           | Client (without DFS) | Client (with DFS) |
| Non-Occupancy Period            | Yes              | Yes                  | Yes               |
| DFS Detection Threshold         | Yes              | Not required         | Yes               |
| Channel Availability Check Time | Yes              | Not required         | Not required      |
| Uniform Spreading               | Yes              | Not required         | Not required      |
| U-NII Detection Bandwidth       | Yes              | Not required         | Yes               |

### **Applicability of DFS requirements during normal operation**

| Requirement                       | Operational Mode |                      |                   |
|-----------------------------------|------------------|----------------------|-------------------|
|                                   | Master           | Client (without DFS) | Client (with DFS) |
| DFS Detection Threshold           | Yes              | Not required         | Yes               |
| Channel Closing Transmission Time | Yes              | Yes                  | Yes               |
| Channel Move Time                 | Yes              | Yes                  | Yes               |
| U-NII Detection Bandwidth         | Yes              | Not required         | Yes               |

### **DFS Response Requirement Values**

| Parameter                         | Value                                                                                                    |
|-----------------------------------|----------------------------------------------------------------------------------------------------------|
| Non-occupancy                     | Minimum 30 minutes                                                                                       |
| Channel Availability Check Time   | 60 seconds                                                                                               |
| Channel Move Time                 | 10 seconds (See Note 1)                                                                                  |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (See Notes 1 and 2). |
| U-NII Detection Bandwidth         | Minimum 80% of the UNII 99% transmission power bandwidth. (See Note 3).                                  |

Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

- For the Short Pulse Radar Test Signals this instant is the end of the Burst.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.
- For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

# INTRODUCTION & CLIENT DEVICE DFS CONFORMANCE

## DFS Detection Thresholds for Master or Client Devices Incorporating DFS

| Maximum Transmit Power                                                                                                                                                                                                                                                                                                                                                                       | Value (See Notes 1 and 2) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| ≥ 200 milliwatt                                                                                                                                                                                                                                                                                                                                                                              | -64 dBm                   |
| < 200 milliwatt                                                                                                                                                                                                                                                                                                                                                                              | -62 dBm                   |
| Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.<br>Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. |                           |

## Short Pulse Radar Test Waveforms

| Radar Type                  | Pulse Width (μsec) | PRI (μsec) | Number of Pulses | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|-----------------------------|--------------------|------------|------------------|--------------------------------------------|--------------------------|
| 1                           | 1                  | 1428       | 18               | 60%                                        | 30                       |
| 2                           | 1 - 5              | 150 - 230  | 23 - 29          | 60%                                        | 30                       |
| 3                           | 6 - 10             | 200 - 500  | 16 - 18          | 60%                                        | 30                       |
| 4                           | 11 - 20            | 200 - 500  | 12 - 16          | 60%                                        | 30                       |
| Aggregate (Radar Types 1-4) |                    |            |                  | 80%                                        | 120                      |

## Long Pulse Radar Test Waveforms

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec)  | Number of Pulses per Burst | Number of Bursts | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|------------|--------------------|-------------------|-------------|----------------------------|------------------|--------------------------------------------|--------------------------|
| 5          | 50 - 100           | 5 - 20            | 1000 - 2000 | 1 - 3                      | 8 - 20           | 80%                                        | 30                       |

## Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|--------------------------------------------|--------------------------|
| 6          | 1                  | 333        | 9              | 0.333              | 300                            | 70%                                        | 30                       |

## Setting the Test Signal Level

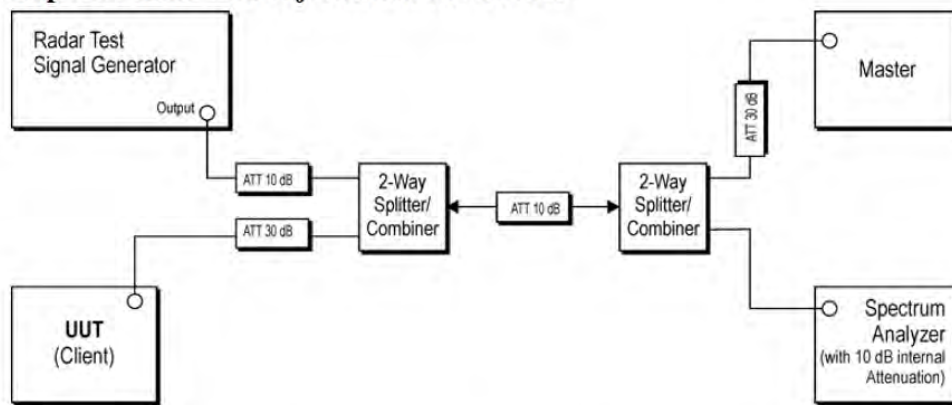
The radar test signal level is set at the Master Device, or the Client Device with In-Service Monitoring, as appropriate for the particular test. This device is known as the Radar Detection Device (RDD).

- When a Client Device without In-Service Monitoring is the UUT, the Master Device is the RDD.
- When a Client Device with In-Service Monitoring is the UUT, and is tested for response to the Master Device detections, the Master Device is the RDD.
- When a Client Device with In-Service Monitoring is the UUT, and is tested for independent response to detections by the Client Device, the Client Device is the RDD.

# INTRODUCTION & CLIENT DEVICE DFS CONFORMANCE

A spectrum analyzer is used to establish the test signal level for each radar type. During this process, there are no transmissions by either the Master Device or Client Device. The spectrum analyzer is switched to the zero span (time domain) mode at the frequency of the Radar Waveform generator. The peak detector function of the spectrum analyzer is utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) are set to at least 3 MHz. The signal generator amplitude and/or step attenuators are set so that the power level measured at the spectrum analyzer is equal to the DFS Detection Threshold that is required for the tests. The signal generator and attenuator settings are recorded for use during the test.

## 7.2.2 Setup for Client with injection at the Master



*Figure 3: Example Conducted Setup where UUT is a Client and Radar Test Waveforms are injected into the Master*



## Channel Loading/Channel Utilization

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 (mo) |
|-----------------------------|--------------------------|-------------------|-----|-----------|---------------|
| DC Power Supply             | Topward                  | TPS-2000          | TPD | NCR       | 0             |
| Multimeter                  | Tektronix                | DMM912            | MMH | 2/5/2013  | 36            |
| MXG Analog Signal Generator | Agilent                  | N5181A            | TIG | 3/28/2014 | 36            |
| Power Sensor                | Agilent                  | E9300H            | SQO | 4/29/2013 | 36            |
| Power Meter                 | Agilent                  | N1913A            | SQR | 4/29/2013 | 36            |
| DFS Access Point            | Cisco                    | AIR-SAP2602E-A-K9 | TIY | NCR       | 0             |
| Step Attenuator             | Aeroflex/Weinschel       | 3053              | RKG | NCR       | 0             |
| Step Attenuator             | Aeroflex/Weinschel       | 3053              | RKF | NCR       | 0             |
| Power Divider/Combiner      | Fairview Microwave       | MP0208-2          | IAJ | NCR       | 0             |
| Power Divider/Combiner      | Fairview Microwave       | MP0208-2          | IAI | NCR       | 0             |
| DFS Signal Generator        | Benchforge Manufacturing | Colt              | TIN | NCR       | 0             |
| Attenuator, 6dB             | S.M. Electronics         | 18N-06            | AWN | 2/3/2014  | 12            |
| 40GHz DC Block              | Miteq                    | DCB4000           | AMD | 5/16/2013 | 12            |
| EV06 Direct Connect Cable   | ESM Cable Corp.          | TT                | ECA | NCR       | 0             |
| Spectrum Analyzer           | Agilent                  | E4440             | AFE | 11/4/2013 | 24            |

### TEST DESCRIPTION

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain as further described by the sweep times listed in the test data. A direct connection was made between the RF output of the master and client system setup which used the conducted method described in the FCC KDB 905462 test procedure via a series of splitters and attenuators.



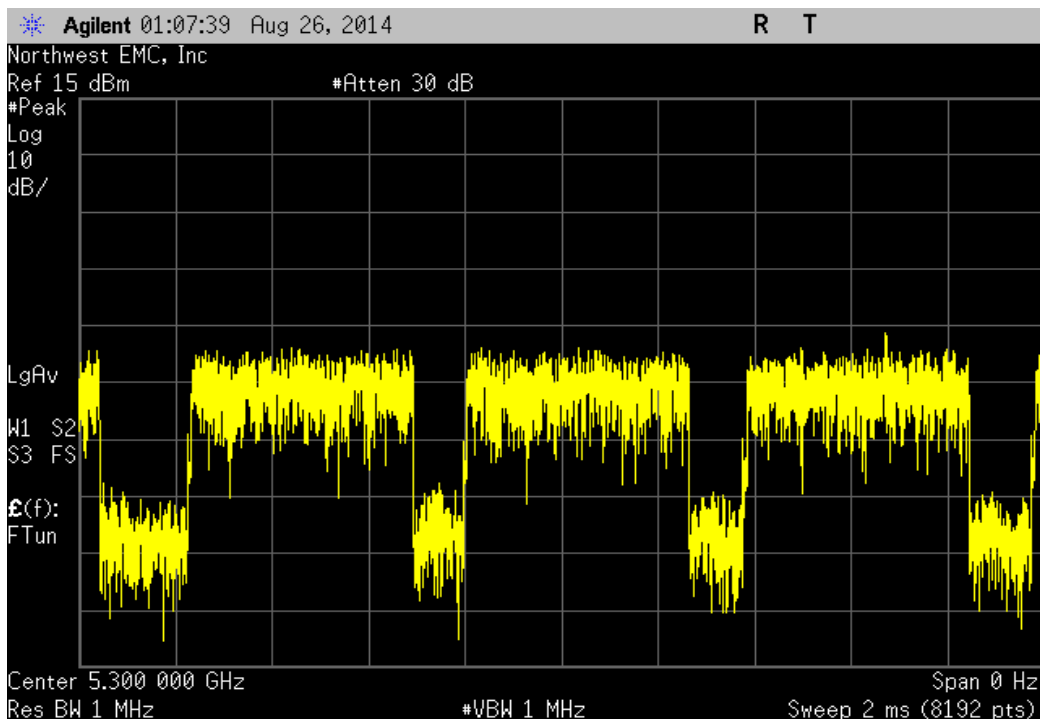
## Channel Loading/Channel Utilization

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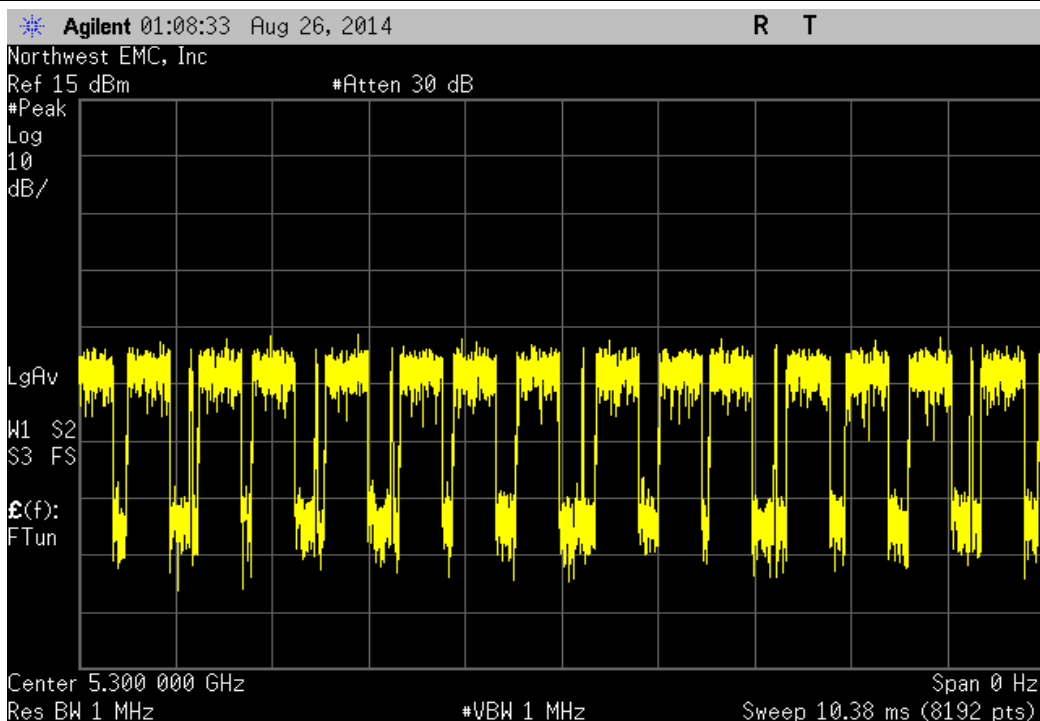
|                                                                                                                                                                                      |   |                                                                                             |            |                |           |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------|------------|----------------|-----------|--------|
| EUT: ConnectCore6 (i.MX6)                                                                                                                                                            |   | Work Order: ETHE0008                                                                        |            |                |           |        |
| Serial Number: 00409D7B8C9C                                                                                                                                                          |   | Date: 08/25/14                                                                              |            |                |           |        |
| Customer: Etherios Design Solutions                                                                                                                                                  |   | Temperature: 22°C                                                                           |            |                |           |        |
| Attendees: None                                                                                                                                                                      |   | Humidity: 47%                                                                               |            |                |           |        |
| Project: None                                                                                                                                                                        |   | Barometric Pres.: 1018.6                                                                    |            |                |           |        |
| Tested by: Jared Ison                                                                                                                                                                |   | Power: 5 VDC                                                                                |            |                |           |        |
|                                                                                                                                                                                      |   | Job Site: EV06                                                                              |            |                |           |        |
| TEST SPECIFICATIONS                                                                                                                                                                  |   | Test Method                                                                                 |            |                |           |        |
| FCC 15.407:2014                                                                                                                                                                      |   | ANSI C63.10:2009                                                                            |            |                |           |        |
| COMMENTS                                                                                                                                                                             |   |                                                                                             |            |                |           |        |
| Test performed on antenna Port 1, the antenna port that produced the highest output power during FCC 15.407 certification testing. The mode of operation was provided by the client. |   |                                                                                             |            |                |           |        |
| DEVIATIONS FROM TEST STANDARD                                                                                                                                                        |   |                                                                                             |            |                |           |        |
| None                                                                                                                                                                                 |   |                                                                                             |            |                |           |        |
| Configuration #                                                                                                                                                                      | 6 | Signature  |            |                |           |        |
|                                                                                                                                                                                      |   | Pulse Width (ms)                                                                            | Pulses (#) | Duty Cycle (%) | Limit (%) | Result |
| 5250 - 5350 MHz Band                                                                                                                                                                 |   |                                                                                             |            |                |           |        |
| Ch. 60: 5300MHz                                                                                                                                                                      |   |                                                                                             |            |                |           |        |
| 2ms Period                                                                                                                                                                           |   | 0.45                                                                                        | 3          | 64             | >45       | Pass   |
| 10ms Period                                                                                                                                                                          |   | 0.45                                                                                        | 15         | 64             | >45       | Pass   |
| 25ms Period                                                                                                                                                                          |   | 0.45                                                                                        | 36         | 64             | >45       | Pass   |
| 100ms Period                                                                                                                                                                         |   | 0.45                                                                                        | 144        | 64             | >45       | Pass   |
| 10 s Period                                                                                                                                                                          |   | N/A                                                                                         | N/A        | N/A            | N/A       | N/A    |
| 5470 - 5725 MHz Band                                                                                                                                                                 |   |                                                                                             |            |                |           |        |
| Ch. 112: 5560MHz                                                                                                                                                                     |   |                                                                                             |            |                |           |        |
| 2ms Period                                                                                                                                                                           |   | 0.45                                                                                        | 3          | 64             | >45       | Pass   |
| 10ms Period                                                                                                                                                                          |   | 0.45                                                                                        | 14         | 64             | >45       | Pass   |
| 25ms Period                                                                                                                                                                          |   | 0.45                                                                                        | 36         | 64             | >45       | Pass   |
| 100ms Period                                                                                                                                                                         |   | 0.45                                                                                        | 144        | 64             | >45       | Pass   |
| 10 s Period                                                                                                                                                                          |   | N/A                                                                                         | N/A        | N/A            | N/A       | N/A    |

## Channel Loading/Channel Utilization

| 5250 - 5350 MHz Band, Ch. 60: 5300MHz, 2ms Period |                     |               |                   |              |        |  |
|---------------------------------------------------|---------------------|---------------|-------------------|--------------|--------|--|
|                                                   | Pulse Width<br>(ms) | Pulses<br>(#) | Duty Cycle<br>(%) | Limit<br>(%) | Result |  |
|                                                   | 0.45                | 3             | 64                | >45          | Pass   |  |

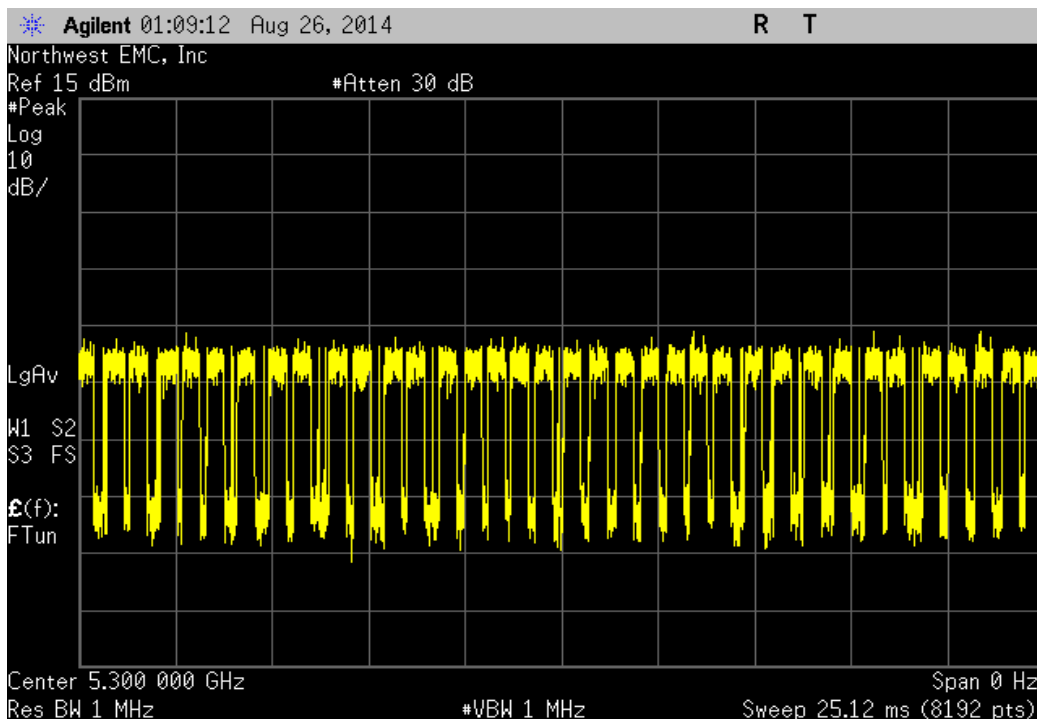


| 5250 - 5350 MHz Band, Ch. 60: 5300MHz, 10ms Period |                     |               |                   |              |        |  |
|----------------------------------------------------|---------------------|---------------|-------------------|--------------|--------|--|
|                                                    | Pulse Width<br>(ms) | Pulses<br>(#) | Duty Cycle<br>(%) | Limit<br>(%) | Result |  |
|                                                    | 0.45                | 15            | 64                | >45          | Pass   |  |

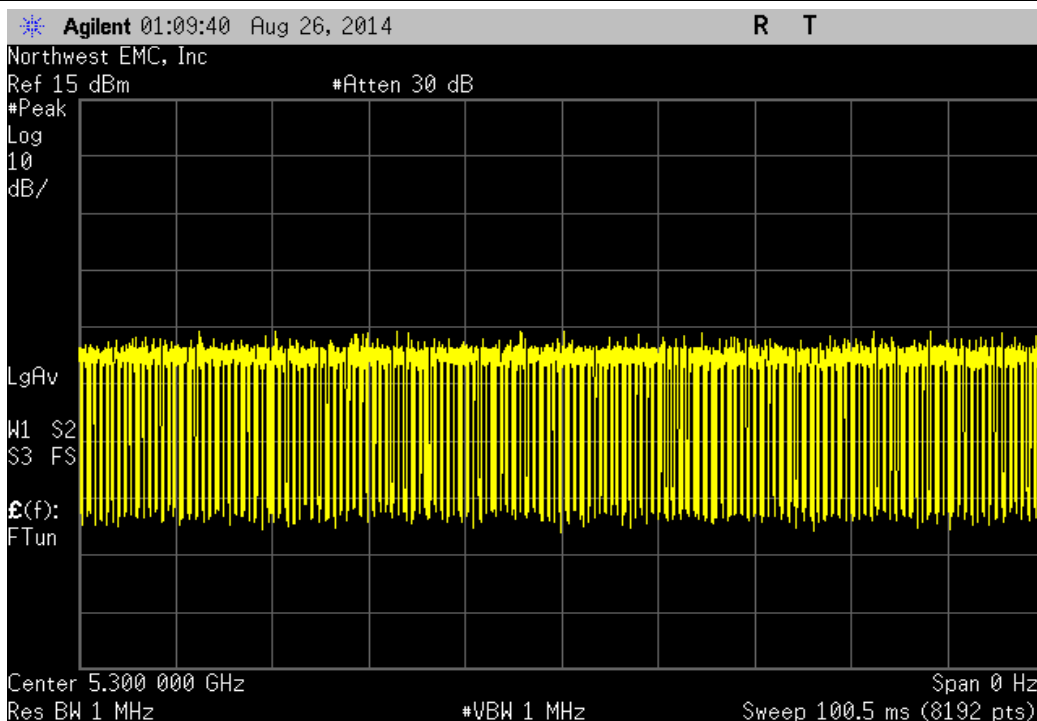


## Channel Loading/Channel Utilization

| 5250 - 5350 MHz Band, Ch. 60: 5300MHz, 25ms Period |        |            |       |        |  |  |
|----------------------------------------------------|--------|------------|-------|--------|--|--|
| Pulse Width                                        | Pulses | Duty Cycle | Limit |        |  |  |
| (ms)                                               | (#)    | (%)        | (%)   | Result |  |  |
| 0.45                                               | 36     | 64         | >45   | Pass   |  |  |

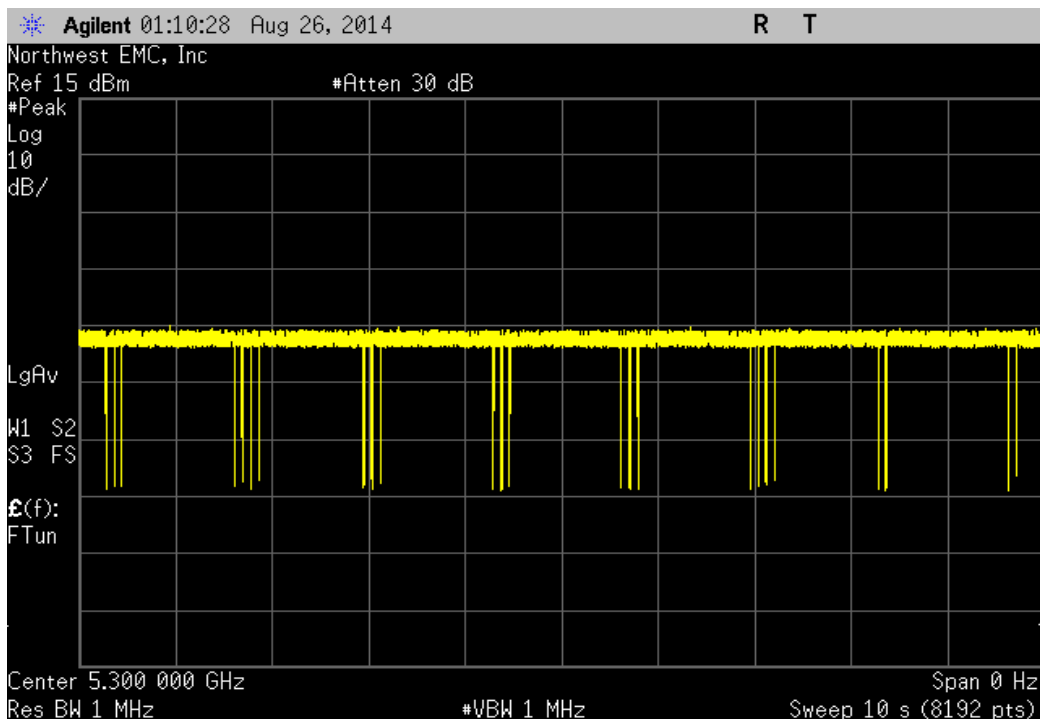


| 5250 - 5350 MHz Band, Ch. 60: 5300MHz, 100ms Period |        |            |       |        |  |  |
|-----------------------------------------------------|--------|------------|-------|--------|--|--|
| Pulse Width                                         | Pulses | Duty Cycle | Limit |        |  |  |
| mS / pulse                                          | (#)    | (%)        | (%)   | Result |  |  |
| 0.45                                                | 144    | 64         | >45   | Pass   |  |  |

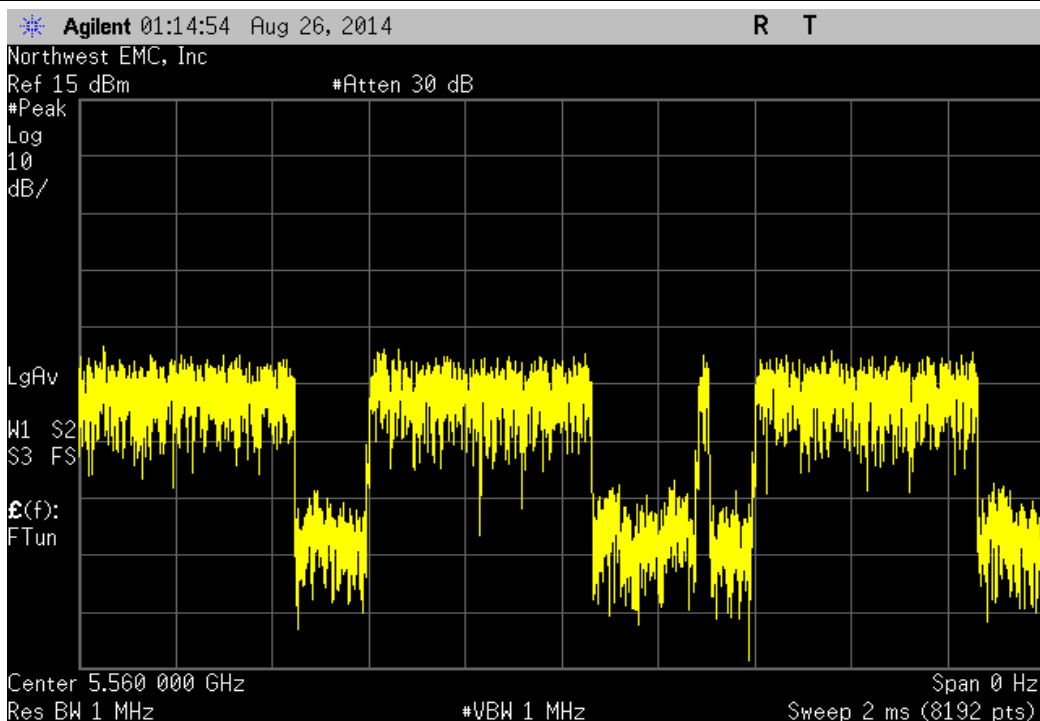


## Channel Loading/Channel Utilization

| 5250 - 5350 MHz Band, Ch. 60: 5300MHz, 10 s Period |        |            |       |        |  |  |
|----------------------------------------------------|--------|------------|-------|--------|--|--|
| Pulse Width                                        | Pulses | Duty Cycle | Limit | Result |  |  |
| (ms)                                               | (#)    | (%)        | (%)   |        |  |  |
| N/A                                                | N/A    | N/A        | N/A   | N/A    |  |  |

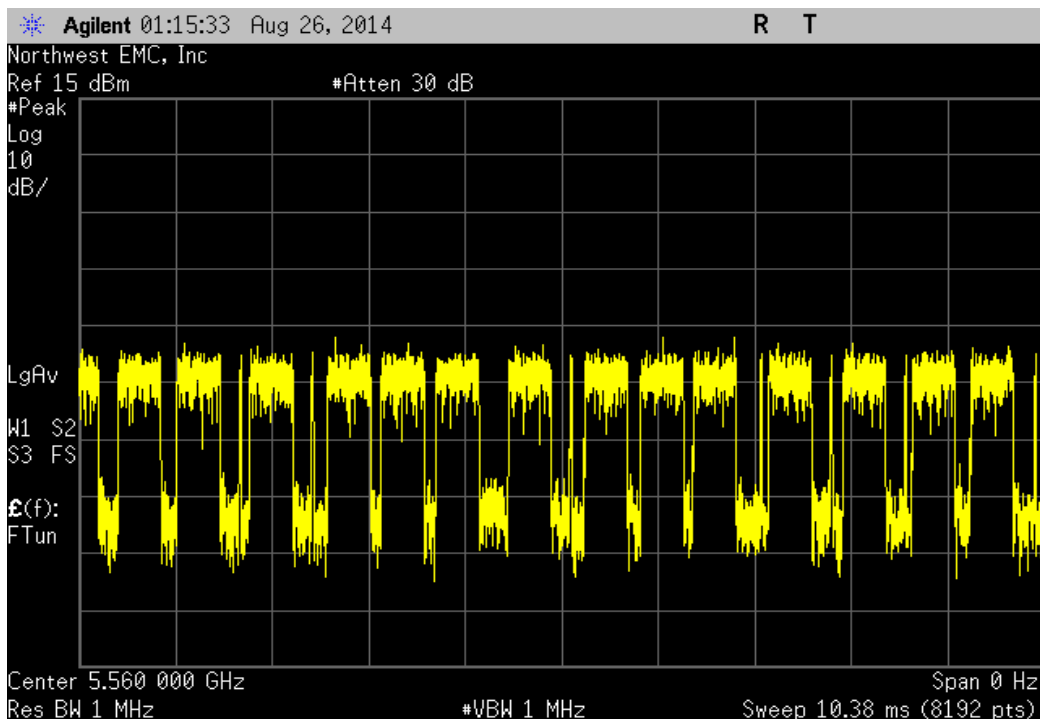


| 5470 - 5725 MHz Band, Ch. 112: 5560MHz, 2ms Period |        |            |       |        |  |  |
|----------------------------------------------------|--------|------------|-------|--------|--|--|
| Pulse Width                                        | Pulses | Duty Cycle | Limit | Result |  |  |
| (ms)                                               | (#)    | (%)        | (%)   |        |  |  |
| 0.45                                               | 3      | 64         | >45   | Pass   |  |  |

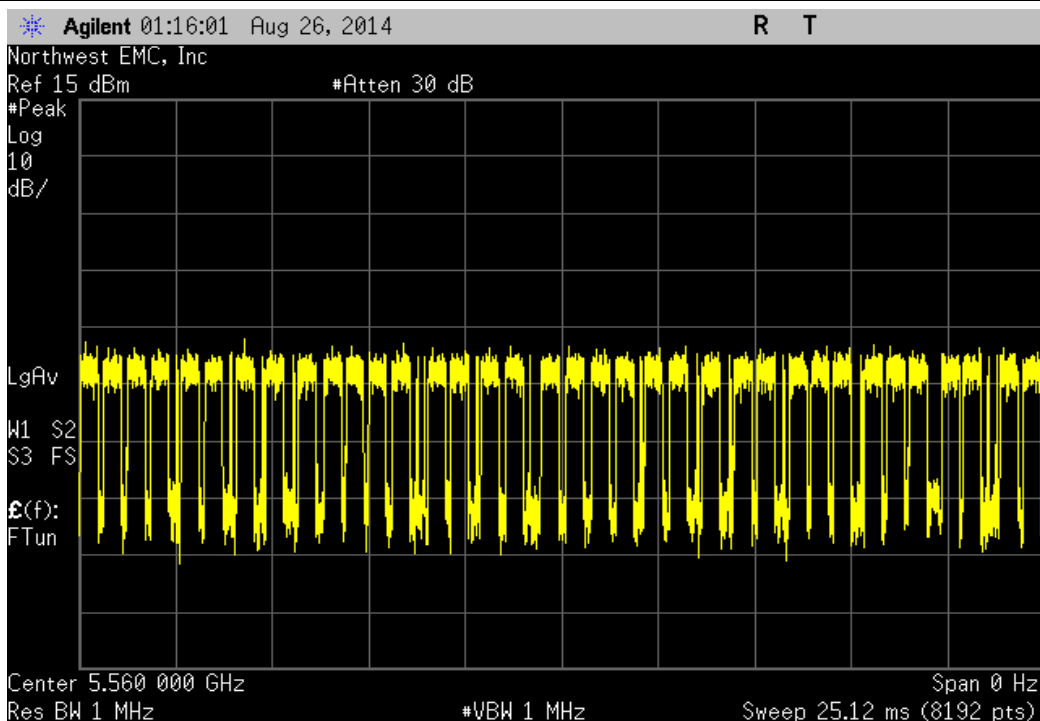


## Channel Loading/Channel Utilization

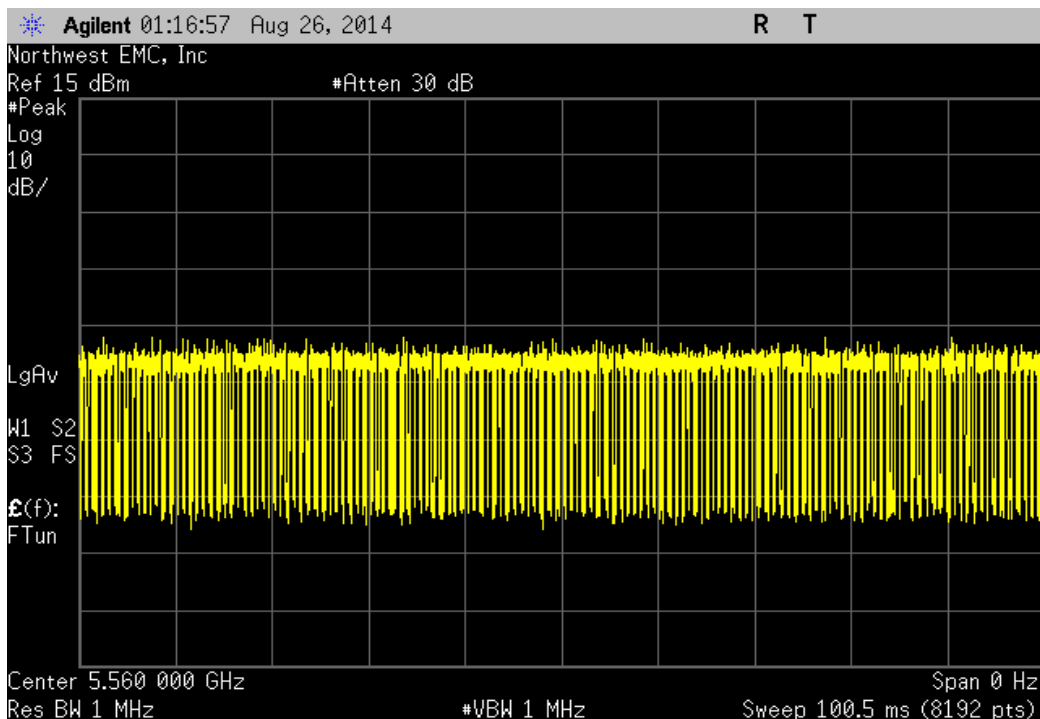
| 5470 - 5725 MHz Band , Ch. 112: 5560MHz, 10ms Period |             |        |            |       |        |  |
|------------------------------------------------------|-------------|--------|------------|-------|--------|--|
|                                                      | Pulse Width | Pulses | Duty Cycle | Limit | Result |  |
|                                                      | (ms)        | (#)    | (%)        | (%)   |        |  |
|                                                      | 0.45        | 14     | 64         | >45   | Pass   |  |



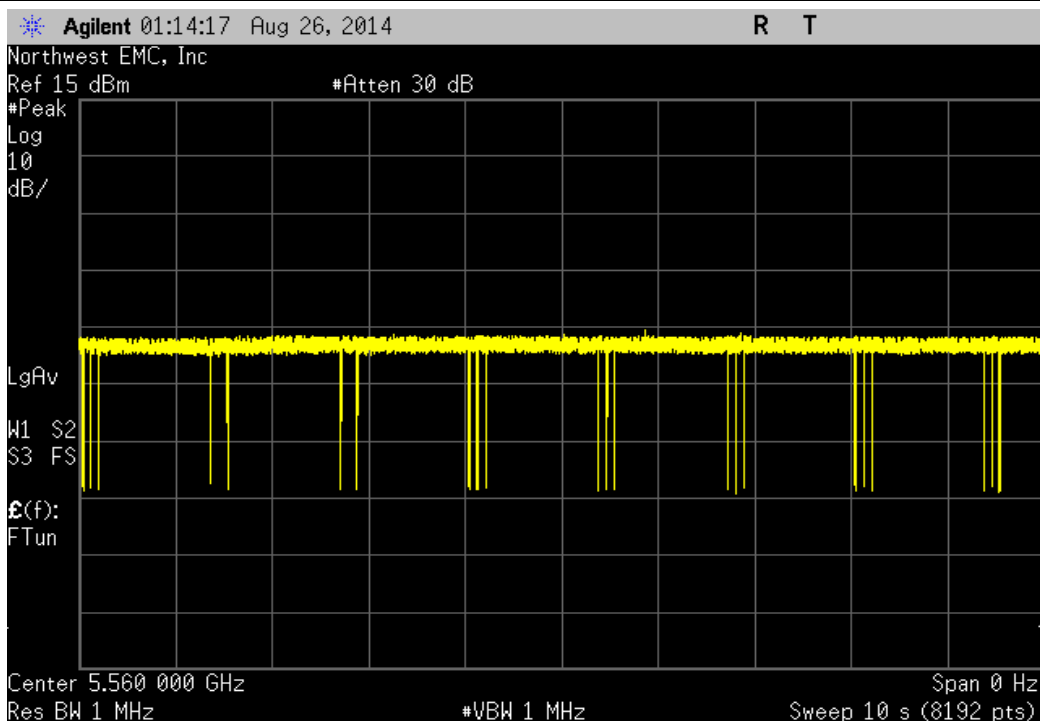
| 5470 - 5725 MHz Band , Ch. 112: 5560MHz, 25ms Period |             |        |            |       |        |  |
|------------------------------------------------------|-------------|--------|------------|-------|--------|--|
|                                                      | Pulse Width | Pulses | Duty Cycle | Limit | Result |  |
|                                                      | (ms)        | (#)    | (%)        | (%)   |        |  |
|                                                      | 0.45        | 36     | 64         | >45   | Pass   |  |



| 5470 - 5725 MHz Band , Ch. 112: 5560MHz, 100ms Period |                     |               |                   |              |        |  |
|-------------------------------------------------------|---------------------|---------------|-------------------|--------------|--------|--|
|                                                       | Pulse Width<br>(ms) | Pulses<br>(#) | Duty Cycle<br>(%) | Limit<br>(%) | Result |  |
|                                                       | 0.45                | 144           | 64                | >45          | Pass   |  |



| 5470 - 5725 MHz Band , Ch. 112: 5560MHz, 10 s Period |                     |               |                   |              |        |  |
|------------------------------------------------------|---------------------|---------------|-------------------|--------------|--------|--|
|                                                      | Pulse Width<br>(ms) | Pulses<br>(#) | Duty Cycle<br>(%) | Limit<br>(%) | Result |  |
|                                                      | N/A                 | N/A           | N/A               | N/A          | N/A    |  |





## MOVE TIME

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 (mo) |
|-----------------------------|--------------------------|-------------------|-----|-----------|---------------|
| Spectrum Analyzer           | Agilent                  | E4440             | AFE | 11/4/2013 | 12            |
| EV06 Direct Connect Cable   | ESM Cable Corp.          | TT                | ECA | NCR       | 0             |
| 40GHz DC Block              | Miteq                    | DCB4000           | AMD | 4/28/2014 | 12            |
| Attenuator, 6dB             | S.M. Electronics         | 18N-06            | AWN | 2/3/2014  | 12            |
| DFS Signal Generator        | Benchforge Manufacturing | Colt              | TIN | NCR       | 0             |
| Power Divider/Combiner      | Fairview Microwave       | MP0208-2          | IAI | NCR       | 0             |
| Power Divider/Combiner      | Fairview Microwave       | MP0208-2          | IAJ | NCR       | 0             |
| Step Attenuator             | Aeroflex/Weinschel       | 3053              | RKF | NCR       | 0             |
| Step Attenuator             | Aeroflex/Weinschel       | 3053              | RKG | NCR       | 0             |
| DFS Access Point            | Cisco                    | AIR-SAP2602E-A-K9 | TIY | NCR       | 0             |
| Power Meter                 | Agilent                  | N1913A            | SQR | 4/29/2013 | 36            |
| Power Sensor                | Agilent                  | E9300H            | SQO | 4/29/2013 | 36            |
| MXG Analog Signal Generator | Agilent                  | N5181A            | TIG | 3/28/2014 | 36            |
| Multimeter                  | Tektronix                | DMM912            | MMH | 2/5/2013  | 36            |
| DC Power Supply             | Topward                  | TPS-2000          | TPD | NCR       | 0             |

### TEST DESCRIPTION

FCC KDB 905462 describes the compliance measurement procedures including acceptable instrument system configurations for performing Dynamic Frequency Selection (DFS) tests under FCC Part 15 Subpart E Rules required for Unlicensed - National Information Infrastructure (U-NII) equipment that operates in the frequency bands 5.25 GHz to 5.35 GHz and/or 5.47 GHz to 5.725 GHz. The master and client were connected using the conducted method described in the procedure via a series of splitters and attenuators which allows the radar signals to be injected and monitored. Where required, an approved Media file was streamed through the master and client or an alternative method to load the channel may be used instead. Configuration and status of the master and client devices were monitored. The Move Time test was performed by starting a transmission between the Master and Slave device, and then injecting the appropriate radar signals and making sure both the Master and Slave device vacate the DFS channel within the time specified by the standard.



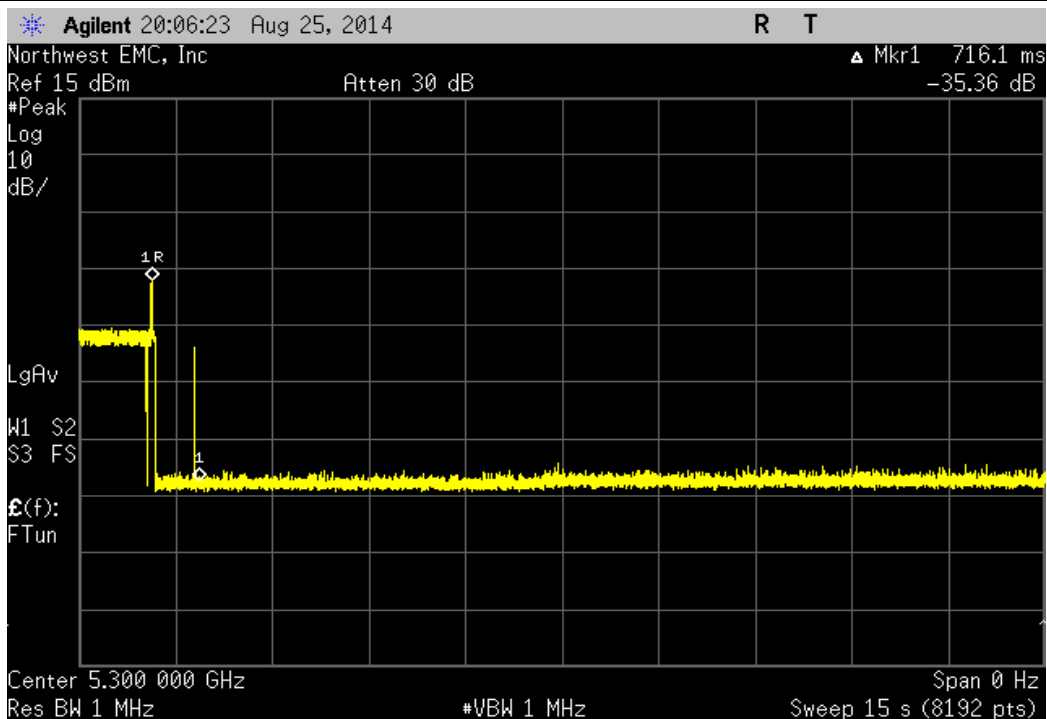
MOVE TIME

XMit 2014.02.07

|                                                                                                                                                                                      |   |                                                                                             |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------|--------|
| EUT: ConnectCore6 (i.MX6)                                                                                                                                                            |   | Work Order: ETHE0008                                                                        |        |
| Serial Number: 00409D7B8CA2                                                                                                                                                          |   | Date: 08/25/14                                                                              |        |
| Customer: Etherios Design Solutions                                                                                                                                                  |   | Temperature: 22°C                                                                           |        |
| Attendees: None                                                                                                                                                                      |   | Humidity: 41%                                                                               |        |
| Project: None                                                                                                                                                                        |   | Barometric Pres.: 1013                                                                      |        |
| Tested by: Jared Ison                                                                                                                                                                |   | Power: 5 VDC                                                                                |        |
|                                                                                                                                                                                      |   | Job Site: EV06                                                                              |        |
| TEST SPECIFICATIONS                                                                                                                                                                  |   | Test Method                                                                                 |        |
| FCC 15.407:2014                                                                                                                                                                      |   | ANSI C63.10:2009                                                                            |        |
| COMMENTS                                                                                                                                                                             |   |                                                                                             |        |
| Test performed on antenna Port 1, the antenna port that produced the highest output power during FCC 15.407 certification testing. The mode of operation was provided by the client. |   |                                                                                             |        |
| DEVIATIONS FROM TEST STANDARD                                                                                                                                                        |   |                                                                                             |        |
| None                                                                                                                                                                                 |   |                                                                                             |        |
| Configuration #                                                                                                                                                                      | 6 | Signature  |        |
|                                                                                                                                                                                      |   | Value                                                                                       | Limit  |
| 20MHz                                                                                                                                                                                |   |                                                                                             | Result |
| Ch. 60: 5300 MHz                                                                                                                                                                     |   |                                                                                             |        |
| Radar Type 1                                                                                                                                                                         |   | 716.1 ms                                                                                    | < 10 s |
| Ch. 112: 5560 MHz                                                                                                                                                                    |   |                                                                                             |        |
| Radar Type 1                                                                                                                                                                         |   | 835.3 ms                                                                                    | < 10 s |
|                                                                                                                                                                                      |   |                                                                                             | Pass   |

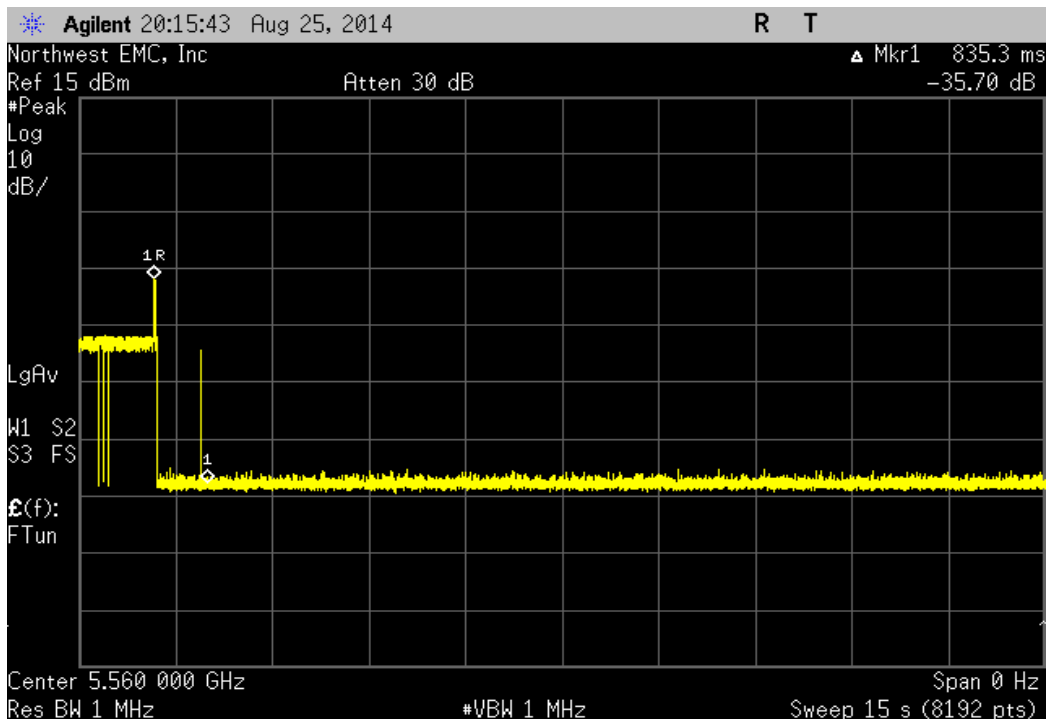
20MHz, Ch. 60: 5300 MHz, Radar Type 1

| Value    | Limit  | Result |
|----------|--------|--------|
| 716.1 ms | < 10 s | Pass   |



20MHz, Ch. 112: 5560 MHz, Radar Type 1

| Value    | Limit  | Result |
|----------|--------|--------|
| 835.3 ms | < 10 s | Pass   |



## CLOSING TIME

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 (mo) |
|-----------------------------|--------------------------|-------------------|-----|-----------|---------------|
| DC Power Supply             | Topward                  | TPS-2000          | TPD | NCR       | 0             |
| Multimeter                  | Tektronix                | DMM912            | MMH | 2/5/2013  | 36            |
| MXG Analog Signal Generator | Agilent                  | N5181A            | TIG | 3/28/2014 | 36            |
| Power Sensor                | Agilent                  | E9300H            | SQO | 4/29/2013 | 36            |
| Power Meter                 | Agilent                  | N1913A            | SQR | 4/29/2013 | 36            |
| DFS Access Point            | Cisco                    | AIR-SAP2602E-A-K9 | TIY | NCR       | 0             |
| Step Attenuator             | Aeroflex/Weinschel       | 3053              | RKG | NCR       | 0             |
| Step Attenuator             | Aeroflex/Weinschel       | 3053              | RKF | NCR       | 0             |
| Power Divider/Combiner      | Fairview Microwave       | MP0208-2          | IAJ | NCR       | 0             |
| Power Divider/Combiner      | Fairview Microwave       | MP0208-2          | IAI | NCR       | 0             |
| DFS Signal Generator        | Benchforge Manufacturing | Colt              | TIN | NCR       | 0             |
| Attenuator, 6dB             | S.M. Electronics         | 18N-06            | AWN | 2/3/2014  | 12            |
| 40GHz DC Block              | Miteq                    | DCB4000           | AMD | 5/16/2013 | 12            |
| EV06 Direct Connect Cable   | ESM Cable Corp.          | TT                | ECA | NCR       | 0             |
| Spectrum Analyzer           | Agilent                  | E4440             | AFE | 11/4/2013 | 24            |

### TEST DESCRIPTION

FCC KDB 905462 describes the compliance measurement procedures including acceptable instrument system configurations for performing Dynamic Frequency Selection (DFS) tests under FCC Part 15 Subpart E Rules required for Unlicensed - National Information Infrastructure (U-NII) equipment that operates in the frequency bands 5.25 GHz to 5.35 GHz and/or 5.47 GHz to 5.725 GHz. The master and client were connected using the conducted method described in the procedure via a series of splitters and attenuators which allows the radar signals to be injected and monitored. Where required, an approved Media file was streamed through the master and client or an alternative method to load the channel may be used instead. Configuration and status of the master and client devices were monitored. The Closing Time test was performed by starting a transmission between the Master and Client device, and then injecting the appropriate radar signals. All transmission signals between the Master and Client in the first 200mS are allowed. After this time period, the number of transmissions signals are counted and multiplied by the pulse width value. This aggregate is then added to the 200mS allowance for the final value.



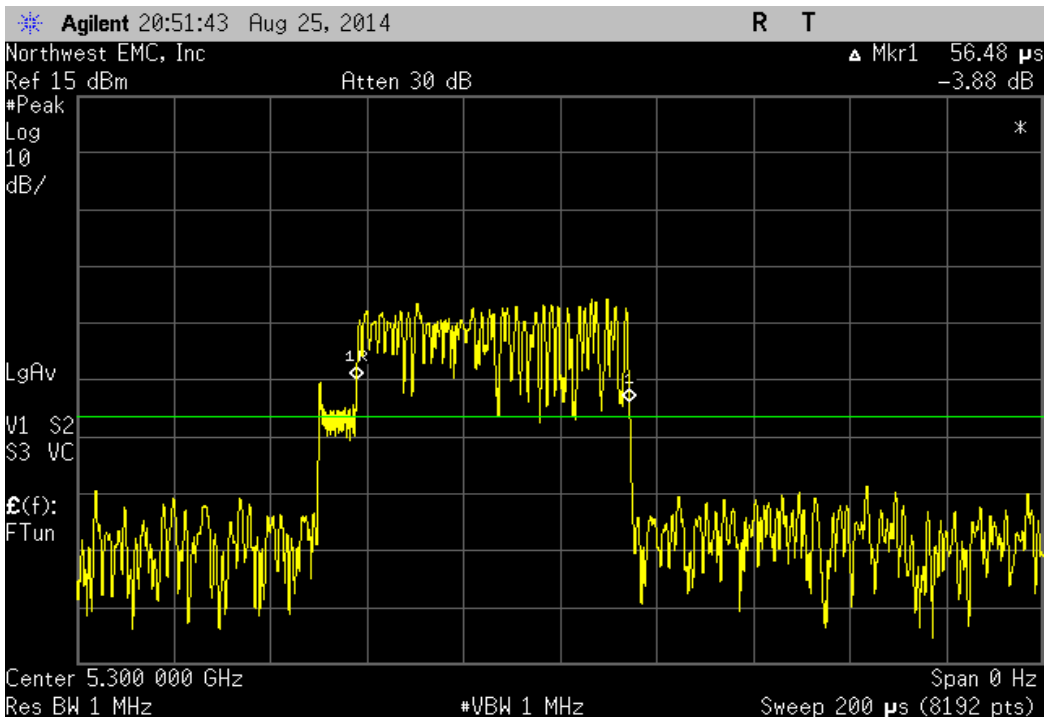
CLOSING TIME

XMit 2014.02.07

|                                                                                                                                                                                      |   |                                                                                             |                  |            |            |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------|------------------|------------|------------|--------|
| EUT: ConnectCore6 (i.MX6)                                                                                                                                                            |   | Work Order: ETHE0008                                                                        |                  |            |            |        |
| Serial Number: 00409D7B8CA2                                                                                                                                                          |   | Date: 08/25/14                                                                              |                  |            |            |        |
| Customer: Etherios Design Solutions                                                                                                                                                  |   | Temperature: 22°C                                                                           |                  |            |            |        |
| Attendees: None                                                                                                                                                                      |   | Humidity: 41%                                                                               |                  |            |            |        |
| Project: None                                                                                                                                                                        |   | Barometric Pres.: 1013                                                                      |                  |            |            |        |
| Tested by: Jared Ison                                                                                                                                                                |   | Power: 5 VDC                                                                                |                  |            |            |        |
|                                                                                                                                                                                      |   | Job Site: EV06                                                                              |                  |            |            |        |
| TEST SPECIFICATIONS                                                                                                                                                                  |   | Test Method                                                                                 |                  |            |            |        |
| FCC 15.407:2014                                                                                                                                                                      |   | ANSI C63.10:2009                                                                            |                  |            |            |        |
| COMMENTS                                                                                                                                                                             |   |                                                                                             |                  |            |            |        |
| Test performed on antenna Port 1, the antenna port that produced the highest output power during FCC 15.407 certification testing. The mode of operation was provided by the client. |   |                                                                                             |                  |            |            |        |
| DEVIATIONS FROM TEST STANDARD                                                                                                                                                        |   |                                                                                             |                  |            |            |        |
| None                                                                                                                                                                                 |   |                                                                                             |                  |            |            |        |
| Configuration #                                                                                                                                                                      | 6 | Signature  |                  |            |            |        |
|                                                                                                                                                                                      |   | Pulses (#)                                                                                  | Pulse Width (ms) | Value (ms) | Limit (ms) | Result |
| 20MHz                                                                                                                                                                                |   |                                                                                             |                  |            |            |        |
| Ch. 60: 5300 MHz                                                                                                                                                                     |   |                                                                                             |                  |            |            |        |
| Radar 1 Control Signal Pulse Width                                                                                                                                                   |   |                                                                                             |                  |            |            |        |
|                                                                                                                                                                                      |   | N/A                                                                                         | 0.05648          | N/A        | N/A        | N/A    |
| Radar 1 200ms + Aggregate                                                                                                                                                            |   |                                                                                             |                  |            |            |        |
|                                                                                                                                                                                      |   | 1                                                                                           | 0.05648          | 200.05648  | 260        | Pass   |
| Ch. 112: 5560 MHz                                                                                                                                                                    |   |                                                                                             |                  |            |            |        |
| Radar 1 Control Signal Pulse Width                                                                                                                                                   |   |                                                                                             |                  |            |            |        |
|                                                                                                                                                                                      |   | N/A                                                                                         | 0.05632          | N/A        | N/A        | N/A    |
| Radar 1 200ms + Aggregate                                                                                                                                                            |   |                                                                                             |                  |            |            |        |
|                                                                                                                                                                                      |   | 1                                                                                           | 0.05632          | 200.05632  | 260        | Pass   |

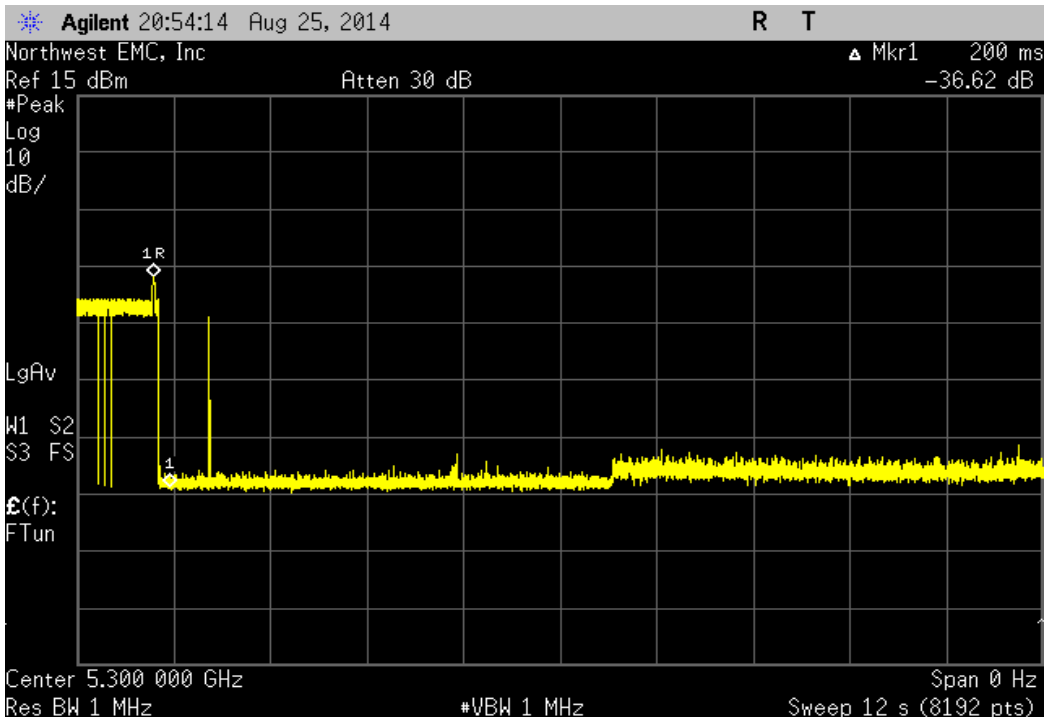
20MHz, Ch. 60: 5300 MHz, Radar 1 Control Signal Pulse Width

| Pulses<br>(#) | Pulse Width<br>(ms) | Value<br>(ms) | Limit<br>(ms) | Result |
|---------------|---------------------|---------------|---------------|--------|
| N/A           | 0.05648             | N/A           | N/A           | N/A    |



20MHz, Ch. 60: 5300 MHz, Radar 1 200ms + Aggregate

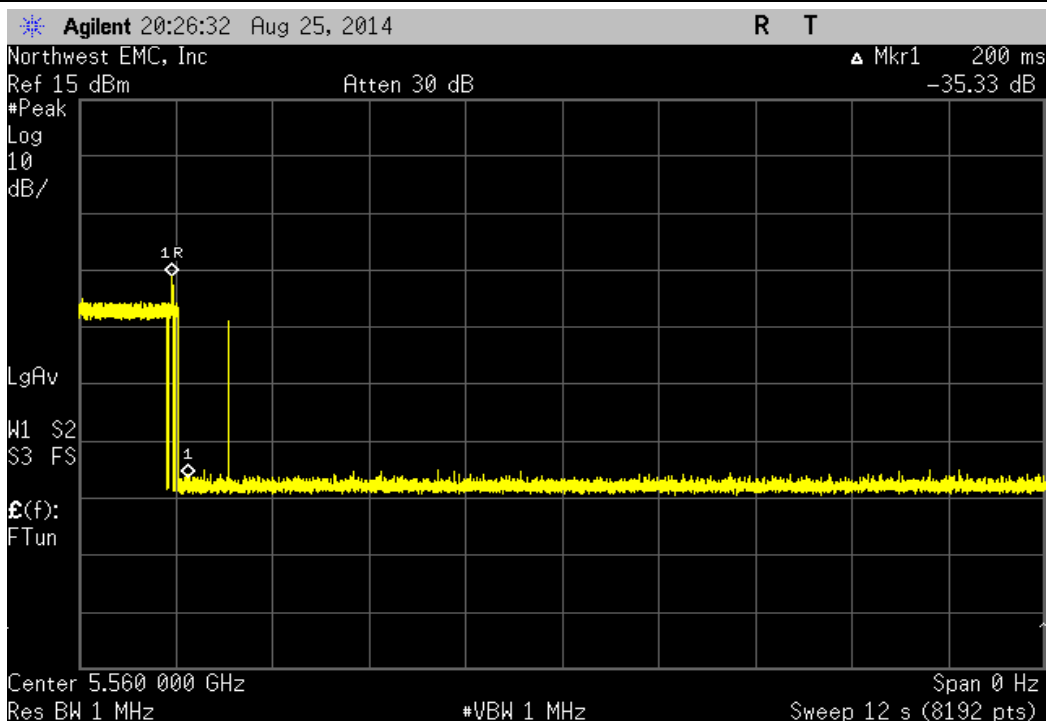
| Pulses<br>(#) | Pulse Width<br>(ms) | Value<br>(ms) | Limit<br>(ms) | Result |
|---------------|---------------------|---------------|---------------|--------|
| 1             | 0.05648             | 200.05648     | 260           | Pass   |



| 20MHz, Ch. 112: 5560 MHz, Radar 1 Control Signal Pulse Width |                     |               |               |        |  |  |
|--------------------------------------------------------------|---------------------|---------------|---------------|--------|--|--|
| Pulses<br>(#)                                                | Pulse Width<br>(ms) | Value<br>(ms) | Limit<br>(ms) | Result |  |  |
| N/A                                                          | 0.05632             | N/A           | N/A           | N/A    |  |  |



| 20MHz, Ch. 112: 5560 MHz, Radar 1 200ms + Aggregate |                     |               |               |        |  |  |
|-----------------------------------------------------|---------------------|---------------|---------------|--------|--|--|
| Pulses<br>(#)                                       | Pulse Width<br>(ms) | Value<br>(ms) | Limit<br>(ms) | Result |  |  |
| 1                                                   | 0.05632             | 200.05632     | 260           | Pass   |  |  |



## NON OCCUPANCY PERIOD

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

### TEST EQUIPMENT

| Description                 | Manufacturer             | Model             | ID  | Last Cal. | Interval |
|-----------------------------|--------------------------|-------------------|-----|-----------|----------|
| Spectrum Analyzer           | Agilent                  | E4440             | AFE | 11/4/2013 | 12       |
| EV06 Direct Connect Cable   | ESM Cable Corp.          | TT                | ECA | NCR       | 0        |
| 40GHz DC Block              | Miteq                    | DCB4000           | AMD | 4/28/2014 | 12       |
| Attenuator, 6dB             | S.M. Electronics         | 18N-06            | AWN | 2/3/2014  | 12       |
| DFS Signal Generator        | Benchforge Manufacturing | Colt              | TIN | NCR       | 0        |
| Power Divider/Combiner      | Fairview Microwave       | MP0208-2          | IAI | NCR       | 0        |
| Power Divider/Combiner      | Fairview Microwave       | MP0208-2          | IAJ | NCR       | 0        |
| Step Attenuator             | Aeroflex/Weinschel       | 3053              | RKF | NCR       | 0        |
| Step Attenuator             | Aeroflex/Weinschel       | 3053              | RKG | NCR       | 0        |
| DFS Access Point            | Cisco                    | AIR-SAP2602E-A-K9 | TIY | NCR       | 0        |
| Power Meter                 | Agilent                  | N1913A            | SQR | 4/29/2013 | 36       |
| Power Sensor                | Agilent                  | E9300H            | SQO | 4/29/2013 | 36       |
| MXG Analog Signal Generator | Agilent                  | N5181A            | TIG | 3/28/2014 | 36       |
| Multimeter                  | Tektronix                | DMM912            | MMH | 2/5/2013  | 36       |
| DC Power Supply             | Topward                  | TPS-2000          | TPD | NCR       | 0        |

### TEST DESCRIPTION

FCC KDB 905462 describes the compliance measurement procedures including acceptable instrument system configurations for performing Dynamic Frequency Selection (DFS) tests under FCC Part 15 Subpart E Rules required for Unlicensed - National Information Infrastructure (U-NII) equipment that operates in the frequency bands 5.25 GHz to 5.35 GHz and/or 5.47 GHz to 5.725 GHz. The master and client were connected using the conducted method described in the procedure via a series of splitters and attenuators which allows the radar signals to be injected and monitored. Where required, an approved Media file was streamed through the master and client or an alternative method to load the channel may be used instead. Configuration and status of the master and client devices were monitored. The Move Time test was performed by starting a transmission between the Master and Slave device, and then injecting the appropriate radar signals and making sure both the Master and Slave device vacate the DFS channel within the time specified by the standard.





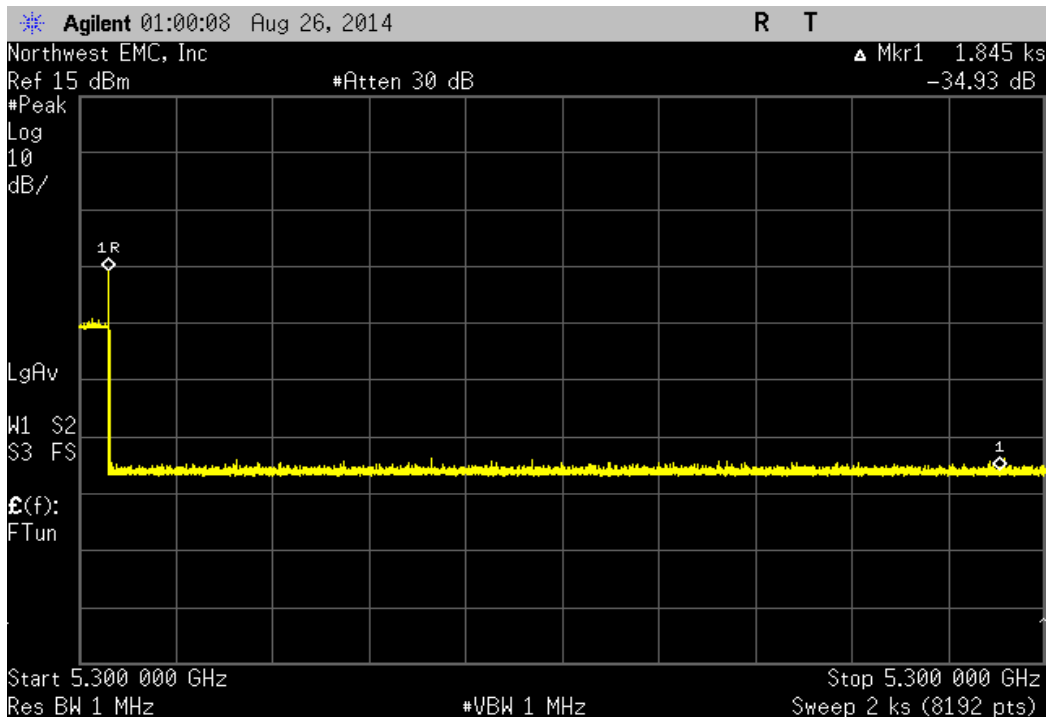
NON OCCUPANCY PERIOD

XMit 2014.02.07

|                                                                                                                                                                                      |   |                                                                                             |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------|----------|
| EUT: ConnectCore6 (i.MX6)                                                                                                                                                            |   | Work Order: ETHE0008                                                                        |          |
| Serial Number: 00409D7B8CA2                                                                                                                                                          |   | Date: 08/25/14                                                                              |          |
| Customer: Etherios Design Solutions                                                                                                                                                  |   | Temperature: 22.°C                                                                          |          |
| Attendees: None                                                                                                                                                                      |   | Humidity: 41%                                                                               |          |
| Project: None                                                                                                                                                                        |   | Barometric Pres.: 1013                                                                      |          |
| Tested by: Jared Ison                                                                                                                                                                |   | Power: 5 VDC                                                                                |          |
|                                                                                                                                                                                      |   | Job Site: EV06                                                                              |          |
| TEST SPECIFICATIONS                                                                                                                                                                  |   | Test Method                                                                                 |          |
| FCC 15.407:2014                                                                                                                                                                      |   | ANSI C63.10:2009                                                                            |          |
| COMMENTS                                                                                                                                                                             |   |                                                                                             |          |
| Test performed on antenna Port 1, the antenna port that produced the highest output power during FCC 15.407 certification testing. The mode of operation was provided by the client. |   |                                                                                             |          |
| DEVIATIONS FROM TEST STANDARD                                                                                                                                                        |   |                                                                                             |          |
| None                                                                                                                                                                                 |   |                                                                                             |          |
| Configuration #                                                                                                                                                                      | 6 | Signature  |          |
|                                                                                                                                                                                      |   | Value                                                                                       | Limit    |
| 20MHz                                                                                                                                                                                |   |                                                                                             | Result   |
| Ch. 60: 5300 MHz                                                                                                                                                                     |   |                                                                                             |          |
| 30min Non Occupancy Period                                                                                                                                                           |   | > 30 min                                                                                    | ≥ 30 min |
| Ch. 112: 5560 MHz                                                                                                                                                                    |   |                                                                                             |          |
| 30min Non Occupancy Period                                                                                                                                                           |   | > 30 min                                                                                    | ≥ 30 min |
|                                                                                                                                                                                      |   |                                                                                             | Pass     |

20MHz, Ch. 60: 5300 MHz, 30min Non Occupancy Period

| Value    | Limit    | Result |
|----------|----------|--------|
| > 30 min | ≥ 30 min | Pass   |



20MHz, Ch. 112: 5560 MHz, 30min Non Occupancy Period

| Value    | Limit    | Result |
|----------|----------|--------|
| > 30 min | ≥ 30 min | Pass   |

