Digi International

ConnectCore Wi-i.MX51

Report #: DGII0046

Report Prepared By Northwest EMC Inc.

NORTHWEST EMC – (888) 364-2378 – www.nwemc.com

California – Minnesota – Oregon – New York – Washington

22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Last Date of Test: February 14, 2012
Digi International
Model: ConnectCore Wi-i.MX51

Emissions

Test Description	Specification	Test Method	Pass/Fail
Spurious Radiated 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		

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. The scope includes radio, ITE, and medical standards from around the world. See: http://www.nwemc.com/accreditations/

Canada

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

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.

Australia/New Zealand

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

Korea

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

Japan

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

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.

Singapore

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

Hong Kong

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

Vietnam

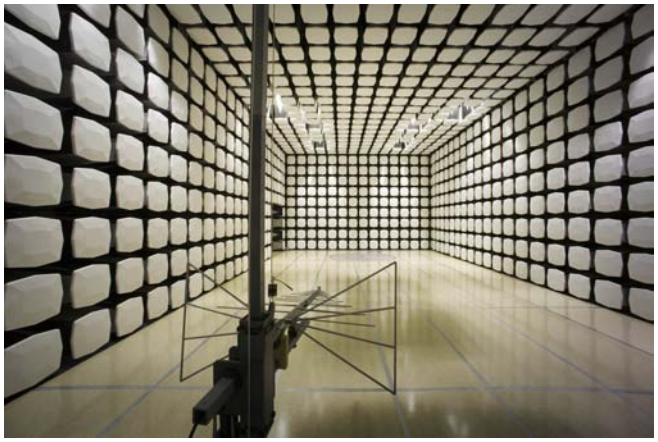
MIC – Recognized by MIC as a CAB for the acceptance of test data.

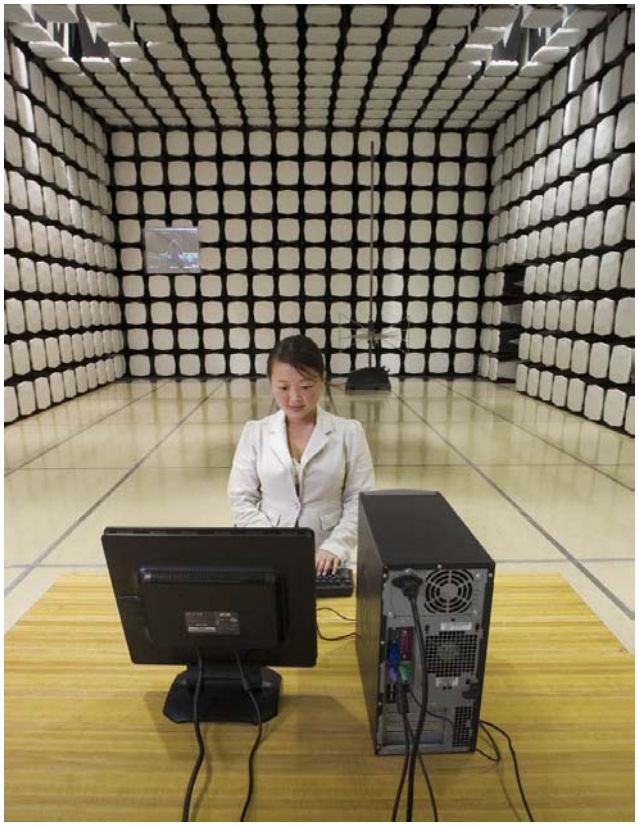
Russia

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

Locations

Oregon	California	New York	Minnesota	Washington
Labs EV01-EV12 22975 NW Evergreen Pkwy, #400 Hillsboro, OR 97124 (503) 844-4066	Labs OC01-OC13 41 Tesla Irvine, CA 92618 (949) 861-8918	Labs WA01-WA04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Labs MN01-MN08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Labs SU01-SU07 14128 339th Ave. SE Sultan, WA 98294 (360) 793-8675
VCCI				
C-1071, R-1025, G-84, C-2687, T-1658, R-2318	R-1943, G-85, C-2766, T-1659, G-548		R-3125, G-86, G-141, C-3464, T-1634	R-871, G-83, C-3265, T-1511
Industry Canada				
2834D-1, 2834D-*2*	2834B-1, 2834B-2, 2834B-3		2834E-1	2834C-1





Product Description

Client and Equipment Under Test (EUT) Information

Company Name:	Digi International
Address:	11001 Bren Road East
City, State, Zip:	Minnetonka, MN 55343
Test Requested By:	Bradley Ferguson
Model:	ConnectCore Wi-i.MX51
First Date of Test:	February 14, 2012
Last Date of Test:	February 14, 2012
Receipt Date of Samples:	February 13, 2012
Equipment Design Stage:	Prototype
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
802.11a/b/g radio. Previously certified under FCC ID: MCQ-50M1699. Seeking C2PC of a new antenna: Laird Nanoblade embedded antenna, 2dBi-4dBi (NanoBlade-IP04, CAF94505)

Testing Objective:
To demonstrate compliance of a new antenna under FCC 15.247 for operation in the 2.4 an 5.8 GHz bands.

Configurations

Configuration 1 DGII0046

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
ConnectCore Module	Digi International	50001699	00409D5163F2

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
DC Adapter	GlobTek Inc	GT-41062-1812-T3	1511
Proto Board	Digi International	55001488-02	W114955246

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Laptop	Lenovo	7417-TPU	L3-A9994 08/09

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC Power	No	1.8m	No	DC Adapter	AC Mains
DC Power	No	1.8m	Yes	Proto Board	DC Adapter
Serial	Yes	>3.0m	No	Proto Board	Laptop
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Modifications

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2/14/2012	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Spurious Radiated Emissions

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. 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 802.11, 6 Mbps, 36 Mbps, 54 Mbps, MCS0, MCS7 at Ch 149, 157, 165 with Pwr lvl 35

Transmitting 802.11, 1, Mbps, 11 Mbps, 6 Mbps, 36 Mbps, 54 Mbps, MCS0, MCS7 at Ch 1, 6, 11 with Pwr lvl 45

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

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FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	40 GHz

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
High Pass Filter	Micro-Tronics	HPM50111	HGQ	7/9/2010	24 mo
Attenuator, 20 dB, 'SMA'	SM Electronics	SA6-20	REO	7/1/2011	12 mo
5G Notch Filter	Micro-Tronics	BRC50705	HGZ	6/2/2011	24 mo
Low Pass Filter	Micro-Tronics	LPM50004	HGK	7/9/2010	24 mo
Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVN	10/12/2011	12 mo
26-40GHz Cable	N/A	TTBJ141-KMKM-72	EVX	10/12/2011	12 mo
Antenna, Horn	ETS	3160-10	AIC	NCR	0 mo
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	2/6/2012	12 mo
MN05 Cables	N/A	18-26GHz Standard Gain Horn Cable	EVD	2/6/2012	12 mo
Antenna, Horn	ETS	3160-09	AHG	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVW	7/1/2011	12 mo
Antenna, Horn	ETS Lindgren	3160-08	AIQ	NCR	0 mo
MN05 Cables	ESM Cable Corp.	Standard Gain Horn Cables	MNJ	7/1/2011	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVV	7/1/2011	12 mo
Antenna, Horn	ETS	3160-07	AXP	NCR	0 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	7/1/2011	12 mo
MN05 Cables	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	10/18/2011	12 mo
Antenna, Horn (DRG)	ETS Lindgren	3115	AIP	6/29/2011	24 mo
Pre-Amplifier	Miteq	AM-1616-1000	AVY	7/1/2011	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	1/24/2012	12 mo
Antenna X-Wing Bilog 30MHZ-2GHz	Teseq	CBL 6141B	AYD	12/19/2011	12 mo
Spectrum Analyzer	Agilent	E4446A	AAT	2/15/2011	13 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

Measurements were made using the IF bandwidths and detectors specified. No video filter was used, except in the case of the FCC Average Measurements above 1GHz. In that case, a peak detector with a 10Hz video bandwidth was used.

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

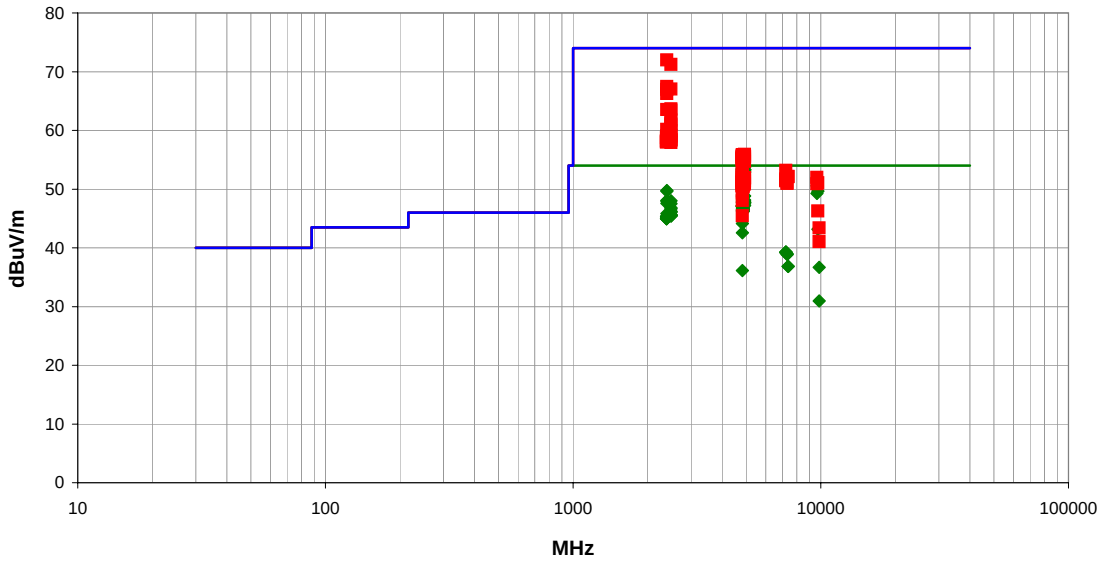
The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

Spurious Radiated Emissions

Work Order:	DGII0046	**Date:**	02/14/12	Trevor Buls	
Project:	None	**Temperature:**	24.64 °C		
Job Site:	MN05	**Humidity:**	12.88% RH		
Serial Number:	00409D5163F2	**Barometric Pres.:**	1008.2 mbar	**Tested by:**	Trevor Buls
EUT:	ConnectCore Wi-i.MX51				
Configuration:	1				
Customer:	Digi International				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11, 1, Mbps, 11 Mbps, 6 Mbps, 36 Mbps, 54 Mbps, MCS0, MCS7 at Ch 1, 6, 11 with Pwr lvl 45 (See Comments)				
Deviations:	None				
Comments:	None				

Test Specifications	**Class B**	**Test Method**
FCC 15.247:2012		ANSI C63.10:2009

Run #	13	**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
4923.992	48.9	4.8	1.0	133.0	3.0	0.0	Horz	AV	0.0	53.7	54.0	-0.3	Ch 11, 1 Mbps, Pwr 45, EUT Vert
4824.017	49.1	4.4	1.0	135.0	3.0	0.0	Horz	AV	0.0	53.5	54.0	-0.5	Ch 1, 11 Mbps, Pwr 45, EUT Vert
4824.008	49.1	4.4	1.0	136.0	3.0	0.0	Horz	AV	0.0	53.5	54.0	-0.5	Ch 1, MCS0, Pwr 45, EUT Vert
4824.017	49.1	4.4	1.0	135.0	3.0	0.0	Horz	AV	0.0	53.5	54.0	-0.5	Ch 1, 54 Mbps, Pwr 45, EUT Vert
4824.017	49.1	4.4	1.0	136.0	3.0	0.0	Horz	AV	0.0	53.5	54.0	-0.5	Ch 1, MCS7, Pwr 45, EUT Vert
4874.017	48.9	4.6	1.0	131.0	3.0	0.0	Horz	AV	0.0	53.5	54.0	-0.5	Ch 6, 1 Mbps, Pwr 45, EUT Vert
4824.012	48.9	4.4	1.4	130.0	3.0	0.0	Horz	AV	0.0	53.3	54.0	-0.7	Ch 1, 6 Mbps, Pwr 49, EUT Vert
4824.017	48.9	4.4	1.0	134.0	3.0	0.0	Horz	AV	0.0	53.3	54.0	-0.7	Ch 1, 6 Mbps, Pwr 45, EUT Vert
4824.017	48.9	4.4	1.0	137.0	3.0	0.0	Horz	AV	0.0	53.3	54.0	-0.7	Ch 1, 36 Mbps, Pwr 45, EUT Vert
4874.017	48.7	4.6	1.0	135.0	3.0	0.0	Horz	AV	0.0	53.3	54.0	-0.7	Ch 6, 6 Mbps, Pwr 45, EUT Vert
4923.992	48.5	4.8	1.0	128.0	3.0	0.0	Horz	AV	0.0	53.3	54.0	-0.7	Ch 11, MCS0, Pwr 45, EUT Vert
4923.992	48.5	4.8	1.0	132.0	3.0	0.0	Horz	AV	0.0	53.3	54.0	-0.7	Ch 11, 36 Mbps, Pwr 45, EUT Vert
4923.992	48.5	4.8	1.0	132.0	3.0	0.0	Horz	AV	0.0	53.3	54.0	-0.7	Ch 11, 54 Mbps, Pwr 45, EUT Vert
4874.008	48.6	4.6	1.0	135.0	3.0	0.0	Horz	AV	0.0	53.2	54.0	-0.8	Ch 6, 11 Mbps, Pwr 45, EUT Vert
4874.025	48.6	4.6	1.0	134.0	3.0	0.0	Horz	AV	0.0	53.2	54.0	-0.8	Ch 6, 54 Mbps, Pwr 45, EUT Vert
4874.008	48.6	4.6	1.0	134.0	3.0	0.0	Horz	AV	0.0	53.2	54.0	-0.8	Ch 6, MCS0, Pwr 45, EUT Vert
4874.025	48.6	4.6	1.0	132.0	3.0	0.0	Horz	AV	0.0	53.2	54.0	-0.8	Ch 6, MCS7, Pwr 45, EUT Vert
4923.992	48.4	4.8	1.0	131.0	3.0	0.0	Horz	AV	0.0	53.2	54.0	-0.8	Ch 11, 6 Mbps, Pwr 45, EUT Vert
4824.012	48.7	4.4	1.0	136.0	3.0	0.0	Horz	AV	0.0	53.1	54.0	-0.9	Ch 1, 1 Mbps, Pwr 49, EUT Vert
4824.012	48.7	4.4	1.4	139.0	3.0	0.0	Horz	AV	0.0	53.1	54.0	-0.9	Ch 1, 11 Mbps, Pwr 49, EUT Vert
4824.021	48.6	4.4	1.0	136.0	3.0	0.0	Horz	AV	0.0	53.0	54.0	-1.0	Ch 1, 54 Mbps, Pwr 49, EUT Vert
4824.008	48.6	4.4	1.0	133.0	3.0	0.0	Horz	AV	0.0	53.0	54.0	-1.0	Ch 1, 1 Mbps, Pwr 45, EUT Vert
4874.025	48.4	4.6	1.0	130.0	3.0	0.0	Horz	AV	0.0	53.0	54.0	-1.0	Ch 6, 36 Mbps, Pwr 45, EUT Vert
4923.992	48.2	4.8	1.0	130.0	3.0	0.0	Horz	AV	0.0	53.0	54.0	-1.0	Ch 11, 11 Mbps, Pwr 45, EUT Vert
4923.992	48.0	4.8	1.0	130.0	3.0	0.0	Horz	AV	0.0	52.8	54.0	-1.2	Ch 11, MCS7, Pwr 45, EUT Vert
4824.012	48.3	4.4	1.4	141.0	3.0	0.0	Horz	AV	0.0	52.7	54.0	-1.3	Ch 1, 36 Mbps, Pwr 49, EUT Vert
2387.500	55.7	-3.7	1.0	311.0	3.0	20.0	Vert	PK	0.0	72.0	74.0	-2.0	Ch 1, MCS0, Pwr 45, EUT Vert

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
2484.058	54.7	-3.5	1.1	4.0	3.0	20.0	Vert	PK	0.0	71.2	74.0	-2.8	Ch 11, MCS0, Pwr 45, EUT Vert
9647.975	60.1	-9.5	1.0	185.0	3.0	0.0	Vert	AV	0.0	50.6	54.0	-3.4	Ch 1, 1 Mbps, Pwr 45, EUT Vert
4824.004	46.0	4.4	1.0	174.0	3.0	0.0	Vert	AV	0.0	50.4	54.0	-3.6	Ch 1, 1 Mbps, Pwr 49, EUT Horz
2390.000	33.5	-3.7	1.0	269.0	3.0	20.0	Vert	AV	0.0	49.8	54.0	-4.2	Ch 1, MCS7, Pwr 45, EUT Vert
9747.975	58.9	-9.2	1.0	209.0	3.0	0.0	Vert	AV	0.0	49.7	54.0	-4.3	Ch 6, 1 Mbps, Pwr 45, EUT Vert
2390.000	33.4	-3.7	1.0	311.0	3.0	20.0	Vert	AV	0.0	49.7	54.0	-4.3	Ch 1, MCS0, Pwr 45, EUT Vert
9647.967	58.8	-9.5	1.2	206.0	3.0	0.0	Horz	AV	0.0	49.3	54.0	-4.7	Ch 1, 1 Mbps, Pwr 45, EUT Vert
4824.004	44.4	4.4	1.0	52.0	3.0	0.0	Vert	AV	0.0	48.8	54.0	-5.2	Ch 1, MCS0, Pwr 49, EUT Vert
4923.992	44.0	4.8	1.0	216.0	3.0	0.0	Vert	AV	0.0	48.8	54.0	-5.2	Ch 11, 1 Mbps, Pwr 45, EUT Vert
4824.029	43.7	4.4	1.0	222.0	3.0	0.0	Vert	AV	0.0	48.1	54.0	-5.9	Ch 1, 6 Mbps, Pwr 49, EUT Vert
4924.000	43.3	4.8	1.0	218.0	3.0	0.0	Vert	AV	0.0	48.1	54.0	-5.9	Ch 11, MCS0, Pwr 45, EUT Vert
2390.000	31.8	-3.7	1.0	312.0	3.0	20.0	Vert	AV	0.0	48.1	54.0	-5.9	Ch 1, 6 Mbps, Pwr 45, EUT Vert
2483.500	31.5	-3.5	1.1	4.0	3.0	20.0	Vert	AV	0.0	48.0	54.0	-6.0	Ch 11, MCS0, Pwr 45, EUT Vert
2390.000	31.7	-3.7	1.0	255.0	3.0	20.0	Vert	AV	0.0	48.0	54.0	-6.0	Ch 1, 54 Mbps, Pwr 45, EUT Vert
4824.004	43.4	4.4	1.0	215.0	3.0	0.0	Vert	AV	0.0	47.8	54.0	-6.2	Ch 1, 36 Mbps, Pwr 49, EUT Vert
4923.983	43.0	4.8	1.0	218.0	3.0	0.0	Vert	AV	0.0	47.8	54.0	-6.2	Ch 11, 36 Mbps, Pwr 45, EUT Vert
4824.012	43.3	4.4	1.0	215.0	3.0	0.0	Vert	AV	0.0	47.7	54.0	-6.3	Ch 1, 11 Mbps, Pwr 49, EUT Vert
4924.000	42.9	4.8	1.0	218.0	3.0	0.0	Vert	AV	0.0	47.7	54.0	-6.3	Ch 11, 11 Mbps, Pwr 45, EUT Vert
4923.992	42.9	4.8	1.3	206.0	3.0	0.0	Vert	AV	0.0	47.7	54.0	-6.3	Ch 11, 54 Mbps, Pwr 45, EUT Vert
2390.000	31.3	-3.7	1.7	287.0	3.0	20.0	Vert	AV	0.0	47.6	54.0	-6.4	Ch 1, 36 Mbps, Pwr 45, EUT Vert
2483.508	31.0	-3.5	1.2	16.0	3.0	20.0	Vert	AV	0.0	47.5	54.0	-6.5	Ch 11, MCS7, Pwr 45, EUT Vert
4923.992	42.7	4.8	1.0	218.0	3.0	0.0	Vert	AV	0.0	47.5	54.0	-6.5	Ch 11, MCS7, Pwr 45, EUT Vert
2389.892	51.2	-3.7	1.0	269.0	3.0	20.0	Vert	PK	0.0	67.5	74.0	-6.5	Ch 1, MCS7, Pwr 45, EUT Vert
4924.000	42.4	4.8	1.5	213.0	3.0	0.0	Vert	AV	0.0	47.2	54.0	-6.8	Ch 11, 6 Mbps, Pwr 45, EUT Vert
4824.029	42.7	4.4	1.0	231.0	3.0	0.0	Vert	AV	0.0	47.1	54.0	-6.9	Ch 1, 1 Mbps, Pwr 49, EUT on Side
4824.004	42.7	4.4	1.1	155.0	3.0	0.0	Horz	AV	0.0	47.1	54.0	-6.9	Ch 1, MCS7, Pwr 49, EUT Vert
4824.008	42.7	4.4	1.0	222.0	3.0	0.0	Vert	AV	0.0	47.1	54.0	-6.9	Ch 1, 11 Mbps, Pwr 45, EUT Vert
4824.017	42.7	4.4	1.0	221.0	3.0	0.0	Vert	AV	0.0	47.1	54.0	-6.9	Ch 1, MCS0, Pwr 45, EUT Vert
4824.008	42.7	4.4	1.0	220.0	3.0	0.0	Vert	AV	0.0	47.1	54.0	-6.9	Ch 1, 36 Mbps, Pwr 45, EUT Vert
4824.008	42.7	4.4	1.0	221.0	3.0	0.0	Vert	AV	0.0	47.1	54.0	-6.9	Ch 1, 54 Mbps, Pwr 45, EUT Vert
4824.000	42.7	4.4	1.0	222.0	3.0	0.0	Vert	AV	0.0	47.1	54.0	-6.9	Ch 1, MCS7, Pwr 45, EUT Vert
4874.008	42.5	4.6	1.0	212.0	3.0	0.0	Vert	AV	0.0	47.1	54.0	-6.9	Ch 6, 11 Mbps, Pwr 45, EUT Vert
4824.021	42.6	4.4	1.0	228.0	3.0	0.0	Horz	AV	0.0	47.0	54.0	-7.0	Ch 1, 1 Mbps, Pwr 49, EUT on Side
2483.883	50.5	-3.5	1.2	16.0	3.0	20.0	Vert	PK	0.0	67.0	74.0	-7.0	Ch 11, MCS7, Pwr 45, EUT Vert
4874.017	42.4	4.6	1.0	213.0	3.0	0.0	Vert	AV	0.0	47.0	54.0	-7.0	Ch 6, 54 Mbps, Pwr 45, EUT Vert
2389.517	50.7	-3.7	1.0	312.0	3.0	20.0	Vert	PK	0.0	67.0	74.0	-7.0	Ch 1, 6 Mbps, Pwr 45, EUT Vert
4824.008	42.5	4.4	1.0	219.0	3.0	0.0	Vert	AV	0.0	46.9	54.0	-7.1	Ch 1, 6 Mbps, Pwr 45, EUT Vert
2483.500	30.3	-3.5	1.0	291.0	3.0	20.0	Vert	AV	0.0	46.8	54.0	-7.2	Ch 11, 6 Mbps, Pwr 45, EUT Vert
4874.017	42.2	4.6	1.0	213.0	3.0	0.0	Vert	AV	0.0	46.8	54.0	-7.2	Ch 6, 6 Mbps, Pwr 45, EUT Vert
4823.996	42.3	4.4	1.0	54.0	3.0	0.0	Vert	AV	0.0	46.7	54.0	-7.3	Ch 1, MCS7, Pwr 49, EUT Vert
4874.008	42.1	4.6	1.0	213.0	3.0	0.0	Vert	AV	0.0	46.7	54.0	-7.3	Ch 6, 1 Mbps, Pwr 45, EUT Vert
2483.617	30.1	-3.5	1.3	292.0	3.0	20.0	Vert	AV	0.0	46.6	54.0	-7.4	Ch 11, 54 Mbps, Pwr 45, EUT Vert
4874.008	41.9	4.6	1.0	222.0	3.0	0.0	Vert	AV	0.0	46.5	54.0	-7.5	Ch 6, MCS0, Pwr 45, EUT Vert
4824.004	42.0	4.4	1.1	149.0	3.0	0.0	Horz	AV	0.0	46.4	54.0	-7.6	Ch 1, MCS0, Pwr 49, EUT Vert
4874.017	41.8	4.6	1.0	220.0	3.0	0.0	Vert	AV	0.0	46.4	54.0	-7.6	Ch 6, MCS7, Pwr 45, EUT Vert
2389.975	50.0	-3.7	1.0	255.0	3.0	20.0	Vert	PK	0.0	66.3	74.0	-7.7	Ch 1, 54 Mbps, Pwr 45, EUT Vert
4823.992	41.8	4.4	1.5	211.0	3.0	0.0	Vert	AV	0.0	46.2	54.0	-7.8	Ch 1, 1 Mbps, Pwr 45, EUT Vert
2483.517	29.7	-3.5	1.0	356.0	3.0	20.0	Horz	AV	0.0	46.2	54.0	-7.8	Ch 11, 6 Mbps, Pwr 45, EUT Vert
4874.017	41.6	4.6	1.0	226.0	3.0	0.0	Vert	AV	0.0	46.2	54.0	-7.8	Ch 6, 36 Mbps, Pwr 45, EUT Vert
2483.500	29.6	-3.5	1.0	320.0	3.0	20.0	Vert	AV	0.0	46.1	54.0	-7.9	Ch 11, 36 Mbps, Pwr 45, EUT Vert
2483.500	29.5	-3.5	1.0	31.0	3.0	20.0	Horz	AV	0.0	46.0	54.0	-8.0	Ch 11, MCS7, Pwr 45, EUT Vert
2389.983	29.6	-3.7	1.0	334.0	3.0	20.0	Horz	AV	0.0	45.9	54.0	-8.1	Ch 1, MCS7, Pwr 45, EUT Vert
2483.500	29.1	-3.5	1.0	61.0	3.0	20.0	Horz	AV	0.0	45.6	54.0	-8.4	Ch 11, MCS0, Pwr 45, EUT Vert
2483.692	29.0	-3.5	1.0	316.0	3.0	20.0	Vert	AV	0.0	45.5	54.0	-8.5	Ch 11, 1 Mbps, Pwr 45, EUT Vert
2483.583	29.0	-3.5	1.0	229.0	3.0	20.0	Horz	AV	0.0	45.5	54.0	-8.5	Ch 11, 36 Mbps, Pwr 45, EUT Vert
2483.533	29.0	-3.5	1.0	120.0	3.0	20.0	Horz	AV	0.0	45.5	54.0	-8.5	Ch 11, 54 Mbps, Pwr 45, EUT Vert
2488.000	28.9	-3.4	3.3	305.0	3.0	20.0	Horz	AV	0.0	45.5	54.0	-8.5	Ch 11, 11 Mbps, Pwr 45, EUT Vert
2483.750	28.9	-3.5	3.7	44.0	3.0	20.0	Vert	AV	0.0	45.4	54.0	-8.6	Ch 11, 11 Mbps, Pwr 45, EUT Vert
2483.642	28.9	-3.5	1.2	328.0	3.0	20.0	Horz	AV	0.0	45.4	54.0	-8.6	Ch 11, 1 Mbps, Pwr 45, EUT Vert
2386.625	29.1	-3.7	1.0	277.0	3.0	20.0	Vert	AV	0.0	45.4	54.0	-8.6	Ch 1, 11 Mbps, Pwr 45, EUT Vert
2386.258	29.0	-3.7	1.0	243.0	3.0	20.0	Vert	AV	0.0	45.3	54.0	-8.7	Ch 1, 1 Mbps, Pwr 45, EUT Vert
2385.750	28.8	-3.7	2.7	342.0	3.0	20.0	Horz	AV	0.0	45.1	54.0	-8.9	Ch 1, 6 Mbps, Pwr 45, EUT Vert
2387.300	28.8	-3.7	1.0	10.0	3.0	20.0	Horz	AV	0.0	45.1	54.0	-8.9	Ch 1, 11 Mbps, Pwr 45, EUT Vert
2389.992	28.8	-3.7	1.0	324.0	3.0	20.0	Horz	AV	0.0	45.1	54.0	-8.9	Ch 1, 36 Mbps, Pwr 45, EUT Vert
2385.292	28.7	-3.7	1.0	170.0	3.0	20.0	Horz	AV	0.0	45.0	54.0	-9.0	Ch 1, 1 Mbps, Pwr 45, EUT Vert
2385.775	28.7	-3.7	1.5	197.0	3.0	20.0	Horz	AV	0.0	45.0	54.0	-9.0	Ch 1, MCS0, Pwr 45, EUT Vert
2385.917	28.7	-3.7	2.7	107.0	3.0	20.0	Horz	AV	0.0	45.0	54.0	-9.0	Ch 1, 54 Mbps, Pwr 45, EUT Vert
4824.004	39.7	4.4	1.0	177.0	3.0	0.0	Vert	AV	0.0	44.1	54.0	-9.9	Ch 1, 1 Mbps, Pwr 49, EUT Vert
2483.733	47.1	-3.5	1.0	291.0	3.0	20.0	Vert	PK	0.0	63.6	74.0	-10.4	Ch 11, 6 Mbps, Pwr 45, EUT Vert
2389.933	47.3	-3.7	1.7	287.0	3.0	20.0	Vert	PK	0.0	63.6	74.0	-10.4	Ch 1, 36 Mbps, Pwr 45, EUT Vert
2483.700	46.9	-3.5	1.3	292.0	3.0	20.0	Vert	PK	0.0	63.4	74.0	-10.6	Ch 11, 54 Mbps, Pwr 45, EUT Vert
9747.967	52.4	-9.2	1.0	137.0	3.0	0.0	Horz	AV	0.0	43.2	54.0	-10.8	Ch 6, 1 Mbps, Pwr 45, EUT Vert
4824.012	38.1	4.4	1.0	127.0	3.0	0.0	Horz	AV	0.0	42.5	54.0	-11.5	Ch 1, 1 Mbps, Pwr 49, EUT Horz
2483.517	45.2	-3.5	1.0	356.0	3.0	20.0	Horz	PK	0.0	61.7	74.0	-12.3	Ch 11, 6 Mbps, Pwr 45, EUT Vert
2484.342	44.6	-3.5	1.0	31.0	3.0	20.0	Horz	PK	0.0	61.1	74.0	-12.9	Ch 11, MCS7, Pwr 45, EUT Vert
2483.992	44.4	-3.5	1.0	61.0	3.0	20.0	Horz	PK	0.0	60.9	74.0	-13.1	Ch 11, MCS0, Pwr 45, EUT Vert
2389.867	43.9	-3.7	1.0	334.0	3.0	20.0	Horz	PK	0.0	60.2	74.0	-13.8	Ch 1, MCS7, Pwr 45, EUT Vert
2486.158	43.4	-3.5	1.0	320.0	3.0	20.0	Vert	PK	0.0	59.9	74.0	-14.1	Ch 11, 36 Mbps, Pwr 45, EUT Vert
7233.608	27.6	11.7	1.6	171.0	3.0	0.0	Horz	AV	0.0	39.3	54.0	-14.7	Ch 1, 1 Mbps, Pwr 49, EUT on Side
7233.542	27.6	11.7	1.0	9.0	3.0	0.0	Vert	AV	0.0	39.3	54.0	-14.7	Ch 1, 1 Mbps, Pwr 49, EUT on Side
7233.658	27.5	11.7	1.0	133.0	3.0	0.0	Horz	AV	0.0	39.2	54.0	-14.8	Ch 1, 1 Mbps, Pwr 45, EUT Vert
7233.500	27.5	11.7	2.0	224.0	3.0	0.0	Vert	AV	0.0	39.2	54.0	-14.8	Ch 1, 1 Mbps, Pwr 45, EUT Vert
2487.050	42.6	-3.5	1.0	316.0	3.0	20.0	Vert	PK	0.0	59.1	74.0	-14.9	Ch 11, 1 Mbps, Pwr 45, EUT Vert
2387.458	42.8	-3.7	1.0	243.0	3.0	20.0	Vert	PK	0.0	59.1	74.0	-14.9	Ch 1, 1 Mbps, Pwr 45, EUT Vert
7308.500	26.9	12.0	1.0	86.0	3.0	0.0	Horz	AV	0.0	38.9	54.0	-15.1	Ch 6, 1 Mbps, Pwr 45, EUT Vert
2487.467	42.4	-3.5	1.0	229.0	3.0	20.0	Horz	PK	0.0	58.9	74.0	-15.1	Ch 11, 36 Mbps, Pwr 45, EUT Vert
7308.608	26.8	12.1	1.0	125.0	3.0	0.0	Vert	AV	0.0	38.9	54.0	-15.1	Ch 6, 6 Mbps, Pwr 45, EUT Vert
2387.042	42.5	-3.7	1.0	324.0	3.0	20.0	Horz	PK	0.0	58.8	74.0	-15.2	Ch 1, 36 Mbps, Pwr 45, EUT Vert
2487.392	41.9	-3.5	1.0	120.0	3.0	20.0	Horz	PK	0.0	58.4	74.0	-15.6	Ch 11, 54 Mbps, Pwr 45, EUT Vert
2387.858	42.1	-3.7	1.0	10.0	3.0	20.0	Horz	PK	0.0	58.4	74.0	-15.6	Ch 1, 11 Mbps, Pwr 45, EUT Vert
2388.942	42.1	-3.7	2.7	107.0	3.0	20.0	Horz	PK	0.0	58.4	74.0	-15.6	Ch 1, 54 Mbps, Pwr 45, EUT Vert
2486.408	41.8	-3.5	3.6	44.0	3.0	20.0	Vert	PK	0.0	58.3	74.0	-15.7	Ch 11, 11 Mbps, Pwr 45, EUT Vert
2483.933	41.8	-3.5	3.3	305.0	3.0	20.0	Horz	PK	0.0	58.3	74.0	-15.7	Ch 11, 11 Mbps, Pwr 45, EUT Vert
2386.892	42.0	-3.7	2.7	342.0	3.0	20.0	Horz	PK	0.0	58.3	74.0	-15.7	Ch 1, 6 Mbps, Pwr 45, EUT Vert

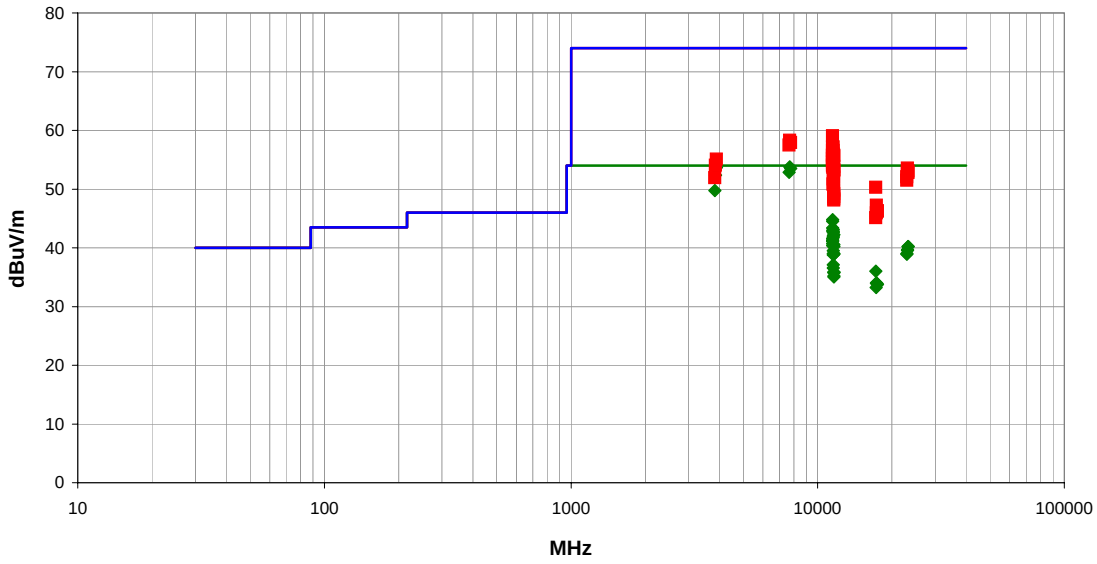
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2385.792	41.8	-3.7	1.0	277.0	3.0	20.0	Vert	PK	0.0	58.1	74.0	-15.9	Ch 1, 11 Mbps, Pwr 45, EUT Vert
2386.425	41.7	-3.7	1.5	197.0	3.0	20.0	Horz	PK	0.0	58.0	74.0	-16.0	Ch 1, MCS0, Pwr 45, EUT Vert
2484.867	41.4	-3.5	1.2	328.0	3.0	20.0	Horz	PK	0.0	57.9	74.0	-16.1	Ch 11, 1 Mbps, Pwr 45, EUT Vert
7389.067	24.4	12.4	1.0	0.0	3.0	0.0	Horz	AV	0.0	36.8	54.0	-17.2	Ch 11, 1 Mbps, Pwr 45, EUT Vert
7387.167	24.4	12.4	1.0	295.0	3.0	0.0	Vert	AV	0.0	36.8	54.0	-17.2	Ch 11, 1 Mbps, Pwr 45, EUT Vert
9850.958	45.6	-8.9	1.0	190.0	3.0	0.0	Horz	AV	0.0	36.7	54.0	-17.3	Ch 11, 1 Mbps, Pwr 45, EUT Vert
4823.979	31.7	4.4	1.0	215.0	3.0	0.0	Vert	AV	0.0	36.1	54.0	-17.9	Ch 1, 54 Mbps, Pwr 49, EUT Vert
4924.033	51.1	4.8	1.0	133.0	3.0	0.0	Horz	PK	0.0	55.9	74.0	-18.1	Ch 11, 1 Mbps, Pwr 45, EUT Vert
4823.925	51.4	4.4	1.0	136.0	3.0	0.0	Horz	PK	0.0	55.8	74.0	-18.2	Ch 1, MCS0, Pwr 45, EUT Vert
4874.100	51.1	4.6	1.0	131.0	3.0	0.0	Horz	PK	0.0	55.7	74.0	-18.3	Ch 6, 1 Mbps, Pwr 45, EUT Vert
4923.867	50.9	4.8	1.0	131.0	3.0	0.0	Horz	PK	0.0	55.7	74.0	-18.3	Ch 11, 6 Mbps, Pwr 45, EUT Vert
4824.025	51.2	4.4	1.0	135.0	3.0	0.0	Horz	PK	0.0	55.6	74.0	-18.4	Ch 1, 11 Mbps, Pwr 45, EUT Vert
4823.858	51.2	4.4	1.0	136.0	3.0	0.0	Horz	PK	0.0	55.6	74.0	-18.4	Ch 1, MCS7, Pwr 45, EUT Vert
4824.042	51.1	4.4	1.0	135.0	3.0	0.0	Horz	PK	0.0	55.5	74.0	-18.5	Ch 1, 54 Mbps, Pwr 45, EUT Vert
4923.992	50.7	4.8	1.0	128.0	3.0	0.0	Horz	PK	0.0	55.5	74.0	-18.5	Ch 11, MCS0, Pwr 45, EUT Vert
4923.942	50.7	4.8	1.0	130.0	3.0	0.0	Horz	PK	0.0	55.5	74.0	-18.5	Ch 11, 11 Mbps, Pwr 45, EUT Vert
4824.025	51.0	4.4	1.0	137.0	3.0	0.0	Horz	PK	0.0	55.4	74.0	-18.6	Ch 1, 36 Mbps, Pwr 45, EUT Vert
4923.917	50.6	4.8	1.0	132.0	3.0	0.0	Horz	PK	0.0	55.4	74.0	-18.6	Ch 11, 36 Mbps, Pwr 45, EUT Vert
4824.079	50.9	4.4	1.0	136.0	3.0	0.0	Horz	PK	0.0	55.3	74.0	-18.7	Ch 1, 54 Mbps, Pwr 49, EUT Vert
4873.842	50.7	4.6	1.0	132.0	3.0	0.0	Horz	PK	0.0	55.3	74.0	-18.7	Ch 6, MCS7, Pwr 45, EUT Vert
4824.058	50.8	4.4	1.0	134.0	3.0	0.0	Horz	PK	0.0	55.2	74.0	-18.8	Ch 1, 6 Mbps, Pwr 45, EUT Vert
4823.921	50.8	4.4	1.4	130.0	3.0	0.0	Horz	PK	0.0	55.2	74.0	-18.8	Ch 1, 6 Mbps, Pwr 49, EUT Vert
4873.858	50.6	4.6	1.0	130.0	3.0	0.0	Horz	PK	0.0	55.2	74.0	-18.8	Ch 6, 36 Mbps, Pwr 45, EUT Vert
4824.021	50.7	4.4	1.4	139.0	3.0	0.0	Horz	PK	0.0	55.1	74.0	-18.9	Ch 1, 11 Mbps, Pwr 49, EUT Vert
4874.058	50.5	4.6	1.0	134.0	3.0	0.0	Horz	PK	0.0	55.1	74.0	-18.9	Ch 6, 54 Mbps, Pwr 45, EUT Vert
4873.975	50.5	4.6	1.0	134.0	3.0	0.0	Horz	PK	0.0	55.1	74.0	-18.9	Ch 6, MCS0, Pwr 45, EUT Vert
4873.958	50.5	4.6	1.0	135.0	3.0	0.0	Horz	PK	0.0	55.1	74.0	-18.9	Ch 6, 1 Mbps, Pwr 45, EUT Vert
4923.958	50.3	4.8	1.0	132.0	3.0	0.0	Horz	PK	0.0	55.1	74.0	-18.9	Ch 11, 54 Mbps, Pwr 45, EUT Vert
4823.996	50.6	4.4	1.0	136.0	3.0	0.0	Horz	PK	0.0	55.0	74.0	-19.0	Ch 1, 1 Mbps, Pwr 49, EUT Vert
4823.925	50.6	4.4	1.0	133.0	3.0	0.0	Horz	PK	0.0	55.0	74.0	-19.0	Ch 1, 1 Mbps, Pwr 45, EUT Vert
4823.871	50.5	4.4	1.4	141.0	3.0	0.0	Horz	PK	0.0	54.9	74.0	-19.1	Ch 1, 36 Mbps, Pwr 49, EUT Vert
4873.967	50.3	4.6	1.0	135.0	3.0	0.0	Horz	PK	0.0	54.9	74.0	-19.1	Ch 6, 11 Mbps, Pwr 45, EUT Vert
4923.950	49.9	4.8	1.0	130.0	3.0	0.0	Horz	PK	0.0	54.7	74.0	-19.3	Ch 11, MCS7, Pwr 45, EUT Vert
7234.508	41.5	11.7	1.6	171.0	3.0	0.0	Horz	PK	0.0	53.2	74.0	-20.8	Ch 1, 1 Mbps, Pwr 49, EUT on Side
4823.979	48.6	4.4	1.0	174.0	3.0	0.0	Vert	PK	0.0	53.0	74.0	-21.0	Ch 1, 1 Mbps, Pwr 49, EUT Horz
4824.021	48.3	4.4	1.0	215.0	3.0	0.0	Vert	PK	0.0	52.7	74.0	-21.3	Ch 1, 11 Mbps, Pwr 49, EUT Vert
4824.021	47.8	4.4	1.0	222.0	3.0	0.0	Vert	PK	0.0	52.2	74.0	-21.8	Ch 1, 6 Mbps, Pwr 49, EUT Vert
4823.896	47.8	4.4	1.0	215.0	3.0	0.0	Vert	PK	0.0	52.2	74.0	-21.8	Ch 1, 36 Mbps, Pwr 49, EUT Vert
7389.508	39.7	12.4	1.0	0.0	3.0	0.0	Horz	PK	0.0	52.1	74.0	-21.9	Ch 11, 1 Mbps, Pwr 45, EUT Vert
7388.317	39.7	12.4	1.0	295.0	3.0	0.0	Vert	PK	0.0	52.1	74.0	-21.9	Ch 11, 1 Mbps, Pwr 45, EUT Vert
4823.771	47.6	4.4	1.0	52.0	3.0	0.0	Vert	PK	0.0	52.0	74.0	-22.0	Ch 1, MCS0, Pwr 49, EUT Vert
9647.942	61.5	-9.5	1.0	185.0	3.0	0.0	Vert	PK	0.0	52.0	74.0	-22.0	Ch 1, 1 Mbps, Pwr 45, EUT Vert
4874.042	47.3	4.6	1.0	212.0	3.0	0.0	Vert	PK	0.0	51.9	74.0	-22.1	Ch 6, 11 Mbps, Pwr 45, EUT Vert
4924.050	47.1	4.8	1.0	217.0	3.0	0.0	Vert	PK	0.0	51.9	74.0	-22.1	Ch 11, MCS0, Pwr 45, EUT Vert
4923.850	47.1	4.8	1.0	218.0	3.0	0.0	Vert	PK	0.0	51.9	74.0	-22.1	Ch 11, 36 Mbps, Pwr 45, EUT Vert
4823.775	47.4	4.4	1.0	222.0	3.0	0.0	Vert	PK	0.0	51.8	74.0	-22.2	Ch 1, 11 Mbps, Pwr 45, EUT Vert
4923.908	47.0	4.8	1.3	206.0	3.0	0.0	Vert	PK	0.0	51.8	74.0	-22.2	Ch 11, 54 Mbps, Pwr 45, EUT Vert
4923.817	47.0	4.8	1.0	216.0	3.0	0.0	Vert	PK	0.0	51.8	74.0	-22.2	Ch 11, 1 Mbps, Pwr 45, EUT Vert
7235.667	40.0	11.7	1.0	9.0	3.0	0.0	Vert	PK	0.0	51.7	74.0	-22.3	Ch 1, 1 Mbps, Pwr 49, EUT on Side
4823.858	47.2	4.4	1.0	219.0	3.0	0.0	Vert	PK	0.0	51.6	74.0	-22.4	Ch 1, 6 Mbps, Pwr 45, EUT Vert
7237.075	39.8	11.7	2.0	224.0	3.0	0.0	Vert	PK	0.0	51.5	74.0	-22.5	Ch 1, 1 Mbps, Pwr 45, EUT Vert
4824.275	47.0	4.4	1.0	221.0	3.0	0.0	Vert	PK	0.0	51.4	74.0	-22.6	Ch 1, 54 Mbps, Pwr 45, EUT Vert
4924.058	46.6	4.8	1.0	218.0	3.0	0.0	Vert	PK	0.0	51.4	74.0	-22.6	Ch 11, 11 Mbps, Pwr 45, EUT Vert
7237.492	39.7	11.7	1.0	133.0	3.0	0.0	Horz	PK	0.0	51.4	74.0	-22.6	Ch 1, 1 Mbps, Pwr 45, EUT Vert
4923.983	46.5	4.8	1.0	218.0	3.0	0.0	Vert	PK	0.0	51.3	74.0	-22.7	Ch 11, MCS7, Pwr 45, EUT Vert
4823.808	46.8	4.4	1.0	220.0	3.0	0.0	Vert	PK	0.0	51.2	74.0	-22.8	Ch 1, 36 Mbps, Pwr 45, EUT Vert
4824.192	46.7	4.4	1.0	222.0	3.0	0.0	Vert	PK	0.0	51.1	74.0	-22.9	Ch 1, MCS7, Pwr 45, EUT Vert
4873.958	46.5	4.6	1.0	213.0	3.0	0.0	Vert	PK	0.0	51.1	74.0	-22.9	Ch 6, 1 Mbps, Pwr 45, EUT Vert
4873.892	46.5	4.6	1.0	213.0	3.0	0.0	Vert	PK	0.0	51.1	74.0	-22.9	Ch 6, 54 Mbps, Pwr 45, EUT Vert
9747.833	60.3	-9.2	1.0	209.0	3.0	0.0	Vert	PK	0.0	51.1	74.0	-22.9	Ch 6, 1 Mbps, Pwr 45, EUT Vert
7309.992	39.0	12.1	1.0	125.0	3.0	0.0	Vert	PK	0.0	51.1	74.0	-22.9	Ch 6, 1 Mbps, Pwr 45, EUT Vert
4823.825	46.6	4.4	1.0	221.0	3.0	0.0	Vert	PK	0.0	51.0	74.0	-23.0	Ch 1, MCS0, Pwr 45, EUT Vert
7313.475	38.9	12.1	1.0	86.0	3.0	0.0	Horz	PK	0.0	51.0	74.0	-23.0	Ch 6, 1 Mbps, Pwr 45, EUT Vert
9850.942	39.9	-8.9	1.0	204.0	3.0	0.0	Vert	AV	0.0	31.0	54.0	-23.0	Ch 11, 1 Mbps, Pwr 45, EUT Vert
4823.887	46.5	4.4	1.1	155.0	3.0	0.0	Horz	PK	0.0	50.9	74.0	-23.1	Ch 1, MCS7, Pwr 49, EUT Vert
4823.854	46.5	4.4	1.0	231.0	3.0	0.0	Vert	PK	0.0	50.9	74.0	-23.1	Ch 1, 1 Mbps, Pwr 49, EUT on Side
9648.117	60.4	-9.5	1.2	206.0	3.0	0.0	Horz	PK	0.0	50.9	74.0	-23.1	Ch 1, 1 Mbps, Pwr 45, EUT Vert
4873.842	46.2	4.6	1.0	220.0	3.0	0.0	Vert	PK	0.0	50.8	74.0	-23.2	Ch 6, MCS7, Pwr 45, EUT Vert
4923.667	46.0	4.8	1.5	213.0	3.0	0.0	Vert	PK	0.0	50.8	74.0	-23.2	Ch 11, 6 Mbps, Pwr 45, EUT Vert
4874.383	46.1	4.6	1.0	213.0	3.0	0.0	Vert	PK	0.0	50.7	74.0	-23.3	Ch 6, 6 Mbps, Pwr 45, EUT Vert
4824.037	46.2	4.4	1.0	54.0	3.0	0.0	Vert	PK	0.0	50.6	74.0	-23.4	Ch 1, MCS7, Pwr 49, EUT Vert
4823.954	46.2	4.4	1.0	228.0	3.0	0.0	Horz	PK	0.0	50.6	74.0	-23.4	Ch 1, 1 Mbps, Pwr 49, EUT on Side
4874.058	46.0	4.6	1.0	226.0	3.0	0.0	Vert	PK	0.0	50.6	74.0	-23.4	Ch 6, 36 Mbps, Pwr 45, EUT Vert
4823.879	46.1	4.4	1.1	149.0	3.0	0.0	Horz	PK	0.0	50.5	74.0	-23.5	Ch 1, MCS0, Pwr 49, EUT Vert
4823.858	46.0	4.4	1.5	211.0	3.0	0.0	Vert	PK	0.0	50.4	74.0	-23.6	Ch 1, 1 Mbps, Pwr 45, EUT Vert
4874.025	45.7	4.6	1.0	222.0	3.0	0.0	Vert	PK	0.0	50.3	74.0	-23.7	Ch 6, MCS0, Pwr 45, EUT Vert
4824.012	45.0	4.4	1.0	177.0	3.0	0.0	Vert	PK	0.0	49.4	74.0	-24.6	Ch 1, 1 Mbps, Pwr 49, EUT Vert
4823.904	43.6	4.4	1.0	127.0	3.0	0.0	Horz	PK	0.0	48.0	74.0	-26.0	Ch 1, 1 Mbps, Pwr 49, EUT Horz
9747.867	55.5	-9.2	1.0	137.0	3.0	0.0	Horz	PK	0.0	46.3	74.0	-27.7	Ch 6, 1 Mbps, Pwr 45, EUT Vert
4826.054	41.0	4.5	1.0	215.0	3.0	0.0	Vert	PK	0.0	45.5	74.0	-28.5	Ch 1, 54 Mbps, Pwr 49, EUT Vert
9851.558	52.3	-8.9	1.0	190.0	3.0	0.0	Horz	PK	0.0	43.4	74.0	-30.6	Ch 11, 1 Mbps, Pwr 45, EUT Vert
9851.133	50.0	-8.9	1.0	204.0	3.0	0.0	Vert	PK	0.0	41.1	74.0	-32.9	Ch 11, 1 Mbps, Pwr 45, EUT Vert

Spurious Radiated Emissions

Work Order:	DGII0046	**Date:**	02/14/12	Trevor Buls	
Project:	None	**Temperature:**	24.64 °C		
Job Site:	MN05	**Humidity:**	12.88% RH		
Serial Number:	00409D5163F2	**Barometric Pres.:**	1008.2 mbar	**Tested by:**	Trevor Buls
EUT:	ConnectCore Wi-i.MX51				
Configuration:	1				
Customer:	Digi International				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11, 6 Mbps, 36 Mbps, 54 Mbps, MCS0, MCS7 at Ch 149, 157, 165 with Pwr lvl 35 (See Comments)				
Deviations:	None				
Comments:	None				

Test Specifications	**Class B**	**Test Method**
FCC 15.247:2012		ANSI C63.10:2009

Run #	8	**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
7713.309	41.2	12.6	1.2	240.0	3.0	0.0	Horz	AV	0.0	53.8	54.0	-0.2	Ch 157, 6 Mbps, Pwr 35, EUT on Side
3883.347	52.3	1.4	1.2	356.0	3.0	0.0	Horz	AV	0.0	53.7	54.0	-0.3	Ch 165, 6 Mbps, Pwr 35, EUT on Side
7766.646	41.0	12.5	1.2	241.0	3.0	0.0	Horz	AV	0.0	53.5	54.0	-0.5	Ch 165, 6 Mbps, Pwr 35, EUT on Side
7659.978	40.2	12.7	1.2	240.0	3.0	0.0	Horz	AV	0.0	52.9	54.0	-1.1	Ch 149, 6 Mbps, Pwr 35, EUT on Side
3856.677	51.1	1.3	1.2	34.0	3.0	0.0	Horz	AV	0.0	52.4	54.0	-1.6	Ch 157, 6 Mbps, Pwr 35, EUT on Side
3830.007	48.6	1.1	1.2	356.0	3.0	0.0	Horz	AV	0.0	49.7	54.0	-4.3	Ch 149, 6 Mbps, Pwr 35, EUT on Side
11489.560	51.2	-6.4	1.0	229.0	3.0	0.0	Horz	AV	0.0	44.8	54.0	-9.2	Ch 149, MCS7, Pwr 35, EUT on Side
11489.390	50.9	-6.4	1.0	230.0	3.0	0.0	Horz	AV	0.0	44.5	54.0	-9.5	Ch 149, MCS0, Pwr 35, EUT on Side
11489.060	49.8	-6.4	1.1	225.0	3.0	0.0	Horz	AV	0.0	43.4	54.0	-10.6	Ch 149, 36 Mbps, Pwr 35, EUT on Side
11570.040	49.5	-6.4	1.1	255.0	3.0	0.0	Horz	AV	0.0	43.1	54.0	-10.9	Ch 157, 6 Mbps, Pwr 35, EUT on Side
11490.190	49.3	-6.4	1.1	165.0	3.0	0.0	Horz	AV	0.0	42.9	54.0	-11.1	Ch 149, 54 Mbps, Pwr 35, EUT on Side
11570.340	49.2	-6.4	1.2	256.0	3.0	0.0	Horz	AV	0.0	42.8	54.0	-11.2	Ch 157, MCS7, Pwr 35, EUT on Side
11569.880	49.0	-6.4	1.2	256.0	3.0	0.0	Horz	AV	0.0	42.6	54.0	-11.4	Ch 157, 36 Mbps, Pwr 35, EUT on Side
11649.130	48.7	-6.5	1.0	259.0	3.0	0.0	Horz	AV	0.0	42.2	54.0	-11.8	Ch 165, 54 Mbps, Pwr 35, EUT on Side
11569.840	48.4	-6.4	1.2	251.0	3.0	0.0	Horz	AV	0.0	42.0	54.0	-12.0	Ch 157, MCS0, Pwr 35, EUT on Side
11569.940	48.2	-6.4	1.3	254.0	3.0	0.0	Horz	AV	0.0	41.8	54.0	-12.2	Ch 157, 54 Mbps, Pwr 35, EUT on Side
11489.670	48.0	-6.4	1.2	201.0	3.0	0.0	Vert	AV	0.0	41.6	54.0	-12.4	Ch 149, 6 Mbps, Pwr 35, EUT on Side
11489.670	47.7	-6.4	1.2	201.0	3.0	0.0	Vert	AV	0.0	41.3	54.0	-12.7	Ch 149, 54 Mbps, Pwr 35, EUT on Side
11489.410	47.6	-6.4	1.2	196.0	3.0	0.0	Vert	AV	0.0	41.2	54.0	-12.8	Ch 149, MCS7, Pwr 35, EUT on Side
11488.870	47.5	-6.4	1.2	200.0	3.0	0.0	Vert	AV	0.0	41.1	54.0	-12.9	Ch 149, MCS0, Pwr 35, EUT on Side
11489.270	47.1	-6.4	1.1	191.0	3.0	0.0	Vert	AV	0.0	40.7	54.0	-13.3	Ch 149, 36 Mbps, Pwr 35, EUT on Side
11649.600	47.0	-6.5	1.2	253.0	3.0	0.0	Horz	AV	0.0	40.5	54.0	-13.5	Ch 165, 36 Mbps, Pwr 35, EUT on Side
11489.990	46.8	-6.4	1.2	247.0	3.0	0.0	Horz	AV	0.0	40.4	54.0	-13.6	Ch 149, 6 Mbps, Pwr 35, EUT on Side
11649.730	46.7	-6.5	1.2	255.0	3.0	0.0	Horz	AV	0.0	40.2	54.0	-13.8	Ch 165, MCS0, Pwr 35, EUT on Side
23300.010	27.9	12.3	1.2	224.0	3.0	0.0	Vert	AV	0.0	40.2	54.0	-13.8	Ch 165, 6 Mbps, Pwr 35, EUT on Side
23299.290	27.9	12.3	1.2	224.0	3.0	0.0	Horz	AV	0.0	40.2	54.0	-13.8	Ch 165, 6 Mbps, Pwr 35, EUT on Side
23139.840	27.4	12.3	1.2	216.0	3.0	0.0	Horz	AV	0.0	39.7	54.0	-14.3	Ch 157, 6 Mbps, Pwr 35, EUT on Side

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
23142.310	27.3	12.3	1.2	216.0	3.0	0.0	Vert	AV	0.0	39.6	54.0	-14.4	Ch 157, 6 Mbps, Pwr 35, EUT on Side
11570.180	45.9	-6.4	1.0	207.0	3.0	0.0	Vert	AV	0.0	39.5	54.0	-14.5	Ch 157, MCS7, Pwr 35, EUT on Side
11485.920	65.5	-6.4	1.0	230.0	3.0	0.0	Horz	PK	0.0	59.1	74.0	-14.9	Ch 149, MCS0, Pwr 35, EUT on Side
11649.870	45.5	-6.5	1.1	248.0	3.0	0.0	Horz	AV	0.0	39.0	54.0	-15.0	Ch 165, 6 Mbps, Pwr 35, EUT on Side
22979.660	26.8	12.2	1.2	214.0	3.0	0.0	Horz	AV	0.0	39.0	54.0	-15.0	Ch 149, 6 Mbps, Pwr 35, EUT on Side
11569.680	45.4	-6.4	1.0	207.0	3.0	0.0	Vert	AV	0.0	39.0	54.0	-15.0	Ch 157, 54 Mbps, Pwr 35, EUT on Side
11648.330	45.4	-6.5	1.2	247.0	3.0	0.0	Horz	AV	0.0	38.9	54.0	-15.1	Ch 165, MCS7, Pwr 35, EUT on Side
22982.500	26.7	12.2	1.2	214.0	3.0	0.0	Vert	AV	0.0	38.9	54.0	-15.1	Ch 149, 6 Mbps, Pwr 35, EUT on Side
11569.610	45.2	-6.4	1.0	205.0	3.0	0.0	Vert	AV	0.0	38.8	54.0	-15.2	Ch 157, 36 Mbps, Pwr 35, EUT on Side
7713.268	45.7	12.6	1.2	240.0	3.0	0.0	Horz	PK	0.0	58.3	74.0	-15.7	Ch 157, 6 Mbps, Pwr 35, EUT on Side
7766.646	45.4	12.5	1.2	241.0	3.0	0.0	Horz	PK	0.0	57.9	74.0	-16.1	Ch 165, 6 Mbps, Pwr 35, EUT on Side
7659.919	44.8	12.7	1.2	240.0	3.0	0.0	Horz	PK	0.0	57.5	74.0	-16.5	Ch 149, 6 Mbps, Pwr 35, EUT on Side
11571.740	63.6	-6.4	1.1	255.0	3.0	0.0	Horz	PK	0.0	57.2	74.0	-16.8	Ch 157, 6 Mbps, Pwr 35, EUT on Side
11483.990	63.6	-6.4	1.0	229.0	3.0	0.0	Horz	PK	0.0	57.2	74.0	-16.8	Ch 149, MCS7, Pwr 35, EUT on Side
11570.050	43.5	-6.4	1.1	192.0	3.0	0.0	Vert	AV	0.0	37.1	54.0	-16.9	Ch 157, MCS0, Pwr 35, EUT on Side
11569.980	43.0	-6.4	1.2	237.0	3.0	0.0	Vert	AV	0.0	36.6	54.0	-17.4	Ch 157, 6 Mbps, Pwr 35, EUT on Side
11574.910	63.0	-6.4	1.2	251.0	3.0	0.0	Horz	PK	0.0	56.6	74.0	-17.4	Ch 157, MCS0, Pwr 35, EUT on Side
11482.420	63.0	-6.4	1.1	225.0	3.0	0.0	Horz	PK	0.0	56.6	74.0	-17.4	Ch 149, 36 Mbps, Pwr 35, EUT on Side
17233.130	32.4	3.6	1.1	135.0	3.0	0.0	Horz	AV	0.0	36.0	54.0	-18.0	Ch 149, 6 Mbps, Pwr 35, EUT on Side
11568.040	62.4	-6.4	1.2	256.0	3.0	0.0	Horz	PK	0.0	56.0	74.0	-18.0	Ch 157, MCS7, Pwr 35, EUT on Side
11649.770	42.3	-6.5	1.0	207.0	3.0	0.0	Vert	AV	0.0	35.8	54.0	-18.2	Ch 165, 36 Mbps, Pwr 35, EUT on Side
11649.870	42.3	-6.5	1.1	204.0	3.0	0.0	Vert	AV	0.0	35.8	54.0	-18.2	Ch 165, 54 Mbps, Pwr 35, EUT on Side
11487.070	62.2	-6.4	1.2	201.0	3.0	0.0	Vert	PK	0.0	55.8	74.0	-18.2	Ch 149, 6 Mbps, Pwr 35, EUT on Side
11649.200	62.2	-6.5	1.2	255.0	3.0	0.0	Horz	PK	0.0	55.7	74.0	-18.3	Ch 165, MCS0, Pwr 35, EUT on Side
11649.900	42.2	-6.5	1.2	236.0	3.0	0.0	Vert	AV	0.0	35.7	54.0	-18.3	Ch 165, MCS7, Pwr 35, EUT on Side
11485.870	62.1	-6.4	1.2	196.0	3.0	0.0	Vert	PK	0.0	55.7	74.0	-18.3	Ch 149, MCS7, Pwr 35, EUT on Side
11646.770	62.1	-6.5	1.0	259.0	3.0	0.0	Horz	PK	0.0	55.6	74.0	-18.4	Ch 165, 54 Mbps, Pwr 35, EUT on Side
11561.780	61.9	-6.4	1.2	256.0	3.0	0.0	Horz	PK	0.0	55.5	74.0	-18.5	Ch 157, 36 Mbps, Pwr 35, EUT on Side
11649.900	41.7	-6.5	1.0	208.0	3.0	0.0	Vert	AV	0.0	35.2	54.0	-18.8	Ch 165, MCS0, Pwr 35, EUT on Side
11488.810	61.6	-6.4	1.2	200.0	3.0	0.0	Vert	PK	0.0	55.2	74.0	-18.8	Ch 149, MCS0, Pwr 35, EUT on Side
11489.690	61.5	-6.4	1.1	165.0	3.0	0.0	Horz	PK	0.0	55.1	74.0	-18.9	Ch 149, 54 Mbps, Pwr 35, EUT on Side
3883.281	53.7	1.4	1.2	356.0	3.0	0.0	Horz	PK	0.0	55.1	74.0	-18.9	Ch 165, 6 Mbps, Pwr 35, EUT on Side
11649.900	41.5	-6.5	1.2	235.0	3.0	0.0	Vert	AV	0.0	35.0	54.0	-19.0	Ch 165, 6 Mbps, Pwr 35, EUT on Side
11489.660	61.0	-6.4	1.2	247.0	3.0	0.0	Horz	PK	0.0	54.6	74.0	-19.4	Ch 149, 6 Mbps, Pwr 35, EUT on Side
11570.180	60.9	-6.4	1.3	254.0	3.0	0.0	Horz	PK	0.0	54.5	74.0	-19.5	Ch 157, 54 Mbps, Pwr 35, EUT on Side
11489.010	60.5	-6.4	1.2	201.0	3.0	0.0	Vert	PK	0.0	54.1	74.0	-19.9	Ch 149, 54 Mbps, Pwr 35, EUT on Side
3856.702	52.8	1.3	1.2	34.0	3.0	0.0	Horz	PK	0.0	54.1	74.0	-19.9	Ch 157, 6 Mbps, Pwr 35, EUT on Side
17337.200	30.5	3.5	1.0	72.0	3.0	0.0	Vert	AV	0.0	34.0	54.0	-20.0	Ch 157, 6 Mbps, Pwr 35, EUT on Side
17337.430	30.5	3.5	1.4	50.0	3.0	0.0	Horz	AV	0.0	34.0	54.0	-20.0	Ch 157, 6 Mbps, Pwr 35, EUT on Side
11489.070	60.3	-6.4	1.1	191.0	3.0	0.0	Vert	PK	0.0	53.9	74.0	-20.1	Ch 149, 36 Mbps, Pwr 35, EUT on Side
11649.130	60.3	-6.5	1.2	253.0	3.0	0.0	Horz	PK	0.0	53.8	74.0	-20.2	Ch 165, 36 Mbps, Pwr 35, EUT on Side
17473.090	30.4	3.4	1.0	51.0	3.0	0.0	Vert	AV	0.0	33.8	54.0	-20.2	Ch 165, 6 Mbps, Pwr 35, EUT on Side
17473.350	30.4	3.4	1.0	279.0	3.0	0.0	Horz	AV	0.0	33.8	54.0	-20.2	Ch 165, 6 Mbps, Pwr 35, EUT on Side
11566.410	60.1	-6.4	1.0	207.0	3.0	0.0	Vert	PK	0.0	53.7	74.0	-20.3	Ch 157, 54 Mbps, Pwr 35, EUT on Side
11569.910	60.1	-6.4	1.0	207.0	3.0	0.0	Vert	PK	0.0	53.7	74.0	-20.3	Ch 157, MCS7, Pwr 35, EUT on Side
23141.330	41.3	12.3	1.2	216.0	3.0	0.0	Vert	PK	0.0	53.6	74.0	-20.4	Ch 157, 6 Mbps, Pwr 35, EUT on Side
11658.770	59.7	-6.5	1.1	248.0	3.0	0.0	Horz	PK	0.0	53.2	74.0	-20.8	Ch 165, 6 Mbps, Pwr 35, EUT on Side
17237.430	29.6	3.6	1.1	215.0	3.0	0.0	Vert	AV	0.0	33.2	54.0	-20.8	Ch 149, 6 Mbps, Pwr 35, EUT on Side
23298.270	40.8	12.3	1.2	224.0	3.0	0.0	Vert	PK	0.0	53.1	74.0	-20.9	Ch 165, 6 Mbps, Pwr 35, EUT on Side
23138.630	40.8	12.3	1.2	216.0	3.0	0.0	Horz	PK	0.0	53.1	74.0	-20.9	Ch 157, 6 Mbps, Pwr 35, EUT on Side
23300.920	40.5	12.3	1.2	224.0	3.0	0.0	Horz	PK	0.0	52.8	74.0	-21.2	Ch 165, 6 Mbps, Pwr 35, EUT on Side
22981.350	39.9	12.2	1.2	214.0	3.0	0.0	Vert	PK	0.0	52.1	74.0	-21.9	Ch 149, 6 Mbps, Pwr 35, EUT on Side
11647.370	58.5	-6.5	1.2	247.0	3.0	0.0	Horz	PK	0.0	52.0	74.0	-22.0	Ch 165, MCS7, Pwr 35, EUT on Side
3829.941	50.8	1.1	1.2	356.0	3.0	0.0	Horz	PK	0.0	51.9	74.0	-22.1	Ch 149, 6 Mbps, Pwr 35, EUT on Side
11563.310	58.1	-6.4	1.0	205.0	3.0	0.0	Vert	PK	0.0	51.7	74.0	-22.3	Ch 157, 36 Mbps, Pwr 35, EUT on Side
22981.250	39.3	12.2	1.2	214.0	3.0	0.0	Horz	PK	0.0	51.5	74.0	-22.5	Ch 149, 6 Mbps, Pwr 35, EUT on Side
11574.850	57.3	-6.4	1.1	192.0	3.0	0.0	Vert	PK	0.0	50.9	74.0	-23.1	Ch 157, MCS0, Pwr 35, EUT on Side
11568.550	57.2	-6.4	1.2	237.0	3.0	0.0	Vert	PK	0.0	50.8	74.0	-23.2	Ch 157, 6 Mbps, Pwr 35, EUT on Side
17235.020	46.7	3.6	1.1	135.0	3.0	0.0	Horz	PK	0.0	50.3	74.0	-23.7	Ch 149, 6 Mbps, Pwr 35, EUT on Side
11645.900	56.3	-6.5	1.0	208.0	3.0	0.0	Vert	PK	0.0	49.8	74.0	-24.2	Ch 165, MCS0, Pwr 35, EUT on Side
11647.870	55.7	-6.5	1.0	207.0	3.0	0.0	Vert	PK	0.0	49.2	74.0	-24.8	Ch 165, 36 Mbps, Pwr 35, EUT on Side
11650.200	55.2	-6.5	1.1	204.0	3.0	0.0	Vert	PK	0.0	48.7	74.0	-25.3	Ch 165, 54 Mbps, Pwr 35, EUT on Side
11646.470	54.8	-6.5	1.2	235.0	3.0	0.0	Vert	PK	0.0	48.3	74.0	-25.7	Ch 165, 6 Mbps, Pwr 35, EUT on Side
11642.500	54.6	-6.5	1.2	236.0	3.0	0.0	Vert	PK	0.0	48.1	74.0	-25.9	Ch 165, MCS7, Pwr 35, EUT on Side
17336.680	43.7	3.5	1.4	50.0	3.0	0.0	Horz	PK	0.0	47.2	74.0	-26.8	Ch 157, 6 Mbps, Pwr 35, EUT on Side
17473.510	42.9	3.4	1.0	51.0	3.0	0.0	Vert	PK	0.0	46.3	74.0	-27.7	Ch 165, 6 Mbps, Pwr 35, EUT on Side
17477.220	42.8	3.4	1.0	279.0	3.0	0.0	Horz	PK	0.0	46.2	74.0	-27.8	Ch 165, 6 Mbps, Pwr 35, EUT on Side
17333.860	42.4	3.5	1.0	72.0	3.0	0.0	Vert	PK	0.0	45.9	74.0	-28.1	Ch 157, 6 Mbps, Pwr 35, EUT on Side
17236.780	41.5	3.6	1.1	215.0	3.0	0.0	Vert	PK	0.0	45.1	74.0	-28.9	Ch 149, 6 Mbps, Pwr 35, EUT on Side