

BAND EDGE COMPLIANCE

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/12/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	36
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	24

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.



BAND EDGE COMPLIANCE

XMit 2013.08.15
PsaTx 2014.03.28

EUT: TH8732WF	Work Order: HNYW0061
Serial Number: 82302010004324	Date: 04/01/14
Customer: Honeywell International, Inc.	Temperature: 23.2°C
Attendees: None	Humidity: 20%
Project: None	Barometric Pres.: 1016.9
Tested by: Trevor Buls	Power: 110VAC/60Hz
	Job Site: MN05

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS
None

DEVIATIONS FROM TEST STANDARD
None

Configuration #	3	Signature <i>Trevor Buls</i>
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		Value	Limit	Result
Antenna 0				
802.11(b) 1 Mbps	Low Channel 1, 2412 MHz	-42.39 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-47.9 dBc	≤ -20 dBc	Pass
802.11(b) 11 Mbps				
802.11(b) 11 Mbps	Low Channel 1, 2412 MHz	-43.42 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-50.04 dBc	≤ -20 dBc	Pass
802.11(g) 6 Mbps				
802.11(g) 6 Mbps	Low Channel 1, 2412 MHz	-35.97 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-44.77 dBc	≤ -20 dBc	Pass
802.11(g) 36 Mbps				
802.11(g) 36 Mbps	Low Channel 1, 2412 MHz	-35.6 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-45.02 dBc	≤ -20 dBc	Pass
802.11(g) 54 Mbps				
802.11(g) 54 Mbps	Low Channel 1, 2412 MHz	-36.23 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-43.74 dBc	≤ -20 dBc	Pass
802.11(n) MCS0				
802.11(n) MCS0	Low Channel 1, 2412 MHz	-35.83 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-43.27 dBc	≤ -20 dBc	Pass
802.11(n) MCS7				
802.11(n) MCS7	Low Channel 1, 2412 MHz	-39.23 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-45.17 dBc	≤ -20 dBc	Pass
Antenna 1				
802.11(b) 1 Mbps	Low Channel 1, 2412 MHz	-40.52 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-53.77 dBc	≤ -20 dBc	Pass
802.11(b) 11 Mbps				
802.11(b) 11 Mbps	Low Channel 1, 2412 MHz	-43.08 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-55.53 dBc	≤ -20 dBc	Pass
802.11(g) 6 Mbps				
802.11(g) 6 Mbps	Low Channel 1, 2412 MHz	-36.19 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-46.58 dBc	≤ -20 dBc	Pass
802.11(g) 36 Mbps				
802.11(g) 36 Mbps	Low Channel 1, 2412 MHz	-35.7 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-47.28 dBc	≤ -20 dBc	Pass
802.11(g) 54 Mbps				
802.11(g) 54 Mbps	Low Channel 1, 2412 MHz	-37.66 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-47.51 dBc	≤ -20 dBc	Pass
802.11(n) MCS0				
802.11(n) MCS0	Low Channel 1, 2412 MHz	-38.19 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-45.52 dBc	≤ -20 dBc	Pass
802.11(n) MCS7				
802.11(n) MCS7	Low Channel 1, 2412 MHz	-39.16 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	-47.86 dBc	≤ -20 dBc	Pass

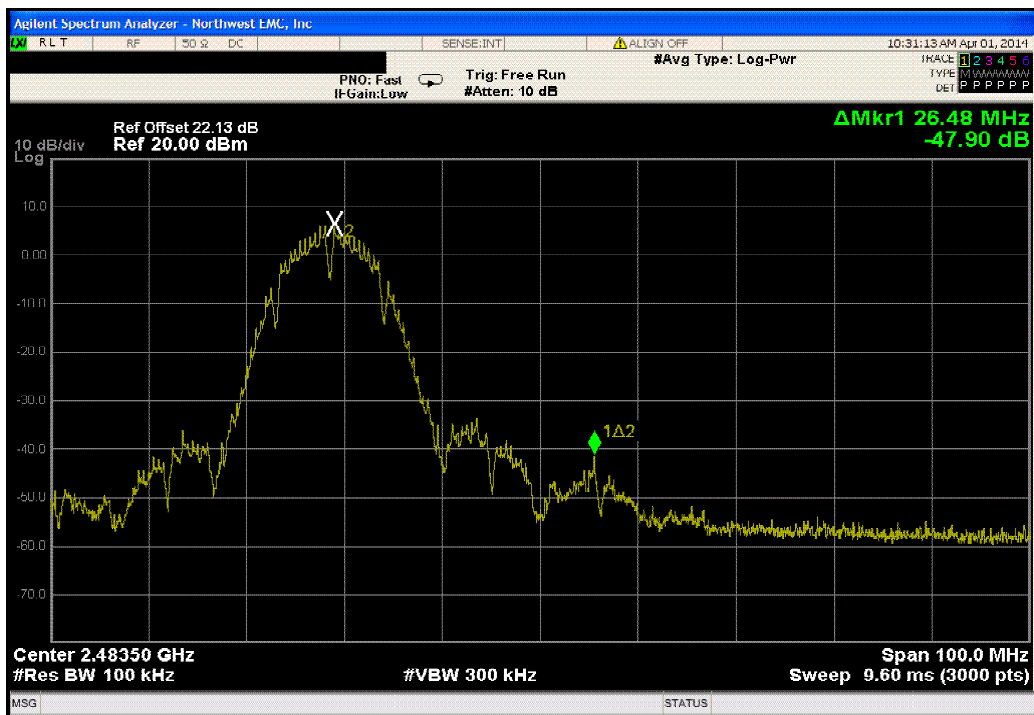
Antenna 0, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-42.39 dBc	≤ -20 dBc	Pass



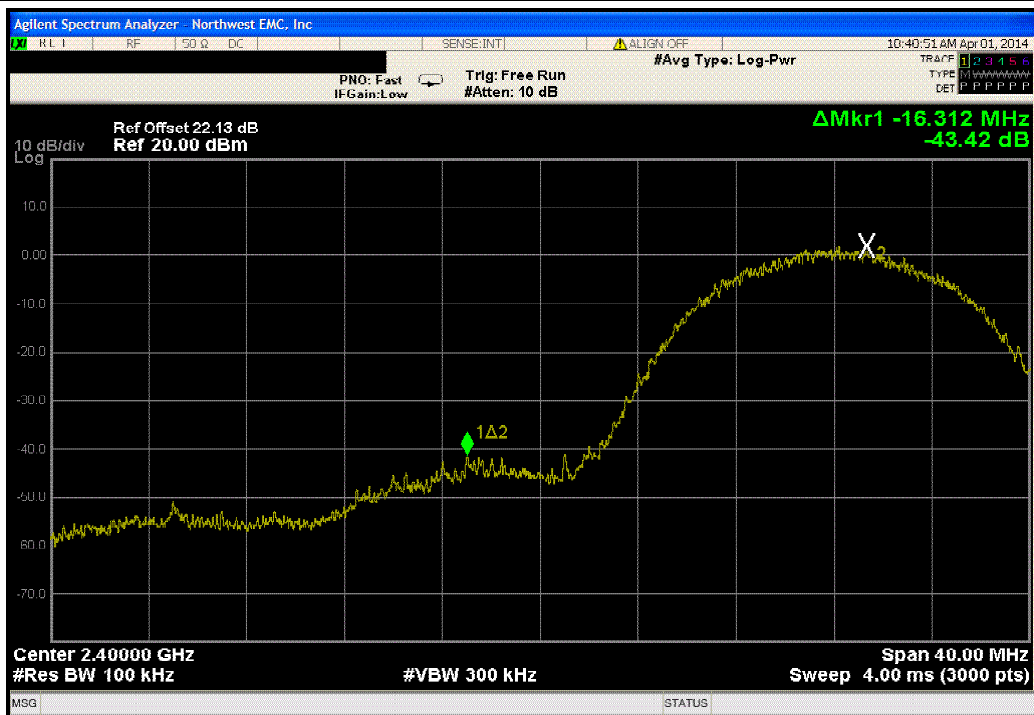
Antenna 0, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				-47.9 dBc	≤ -20 dBc	Pass



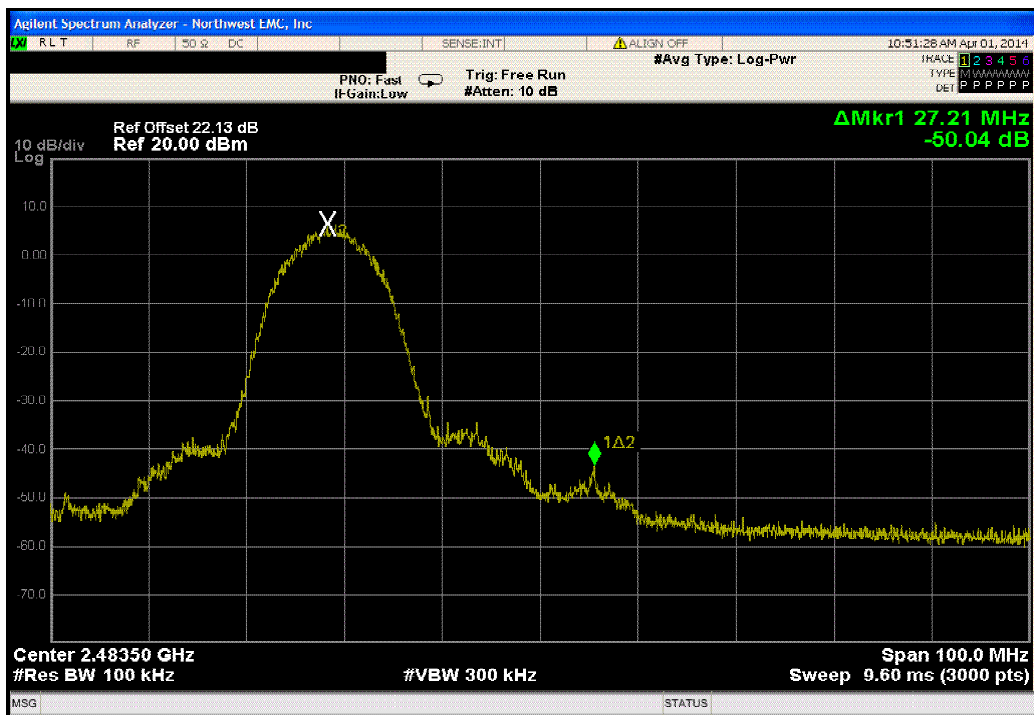
Antenna 0, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-43.42 dBc	≤ -20 dBc	Pass



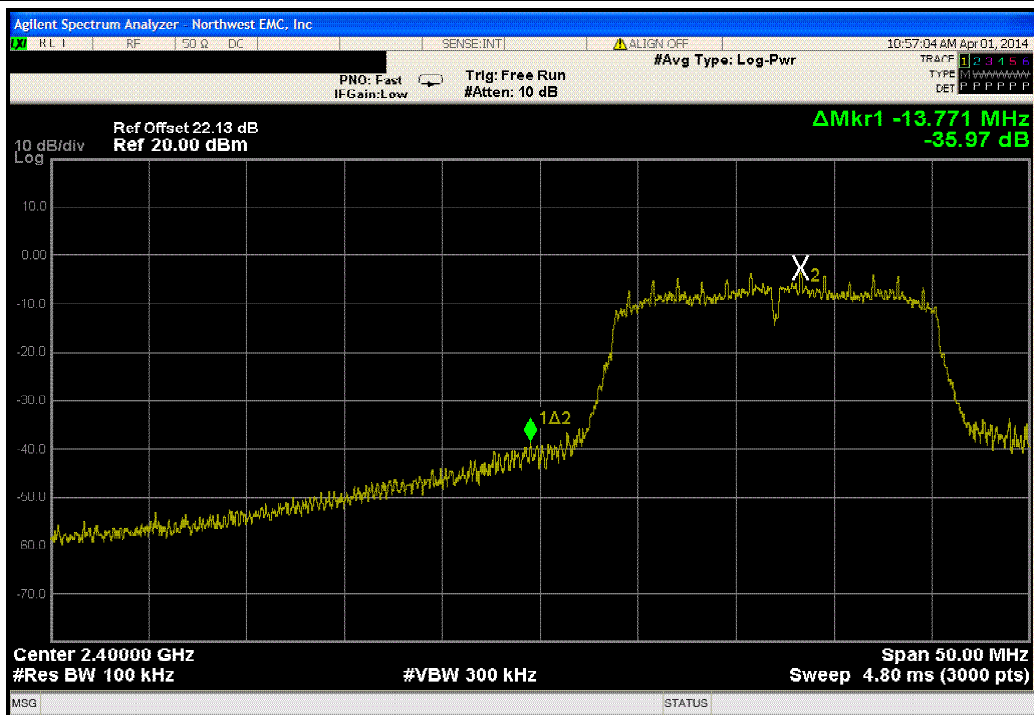
Antenna 0, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				-50.04 dBc	≤ -20 dBc	Pass



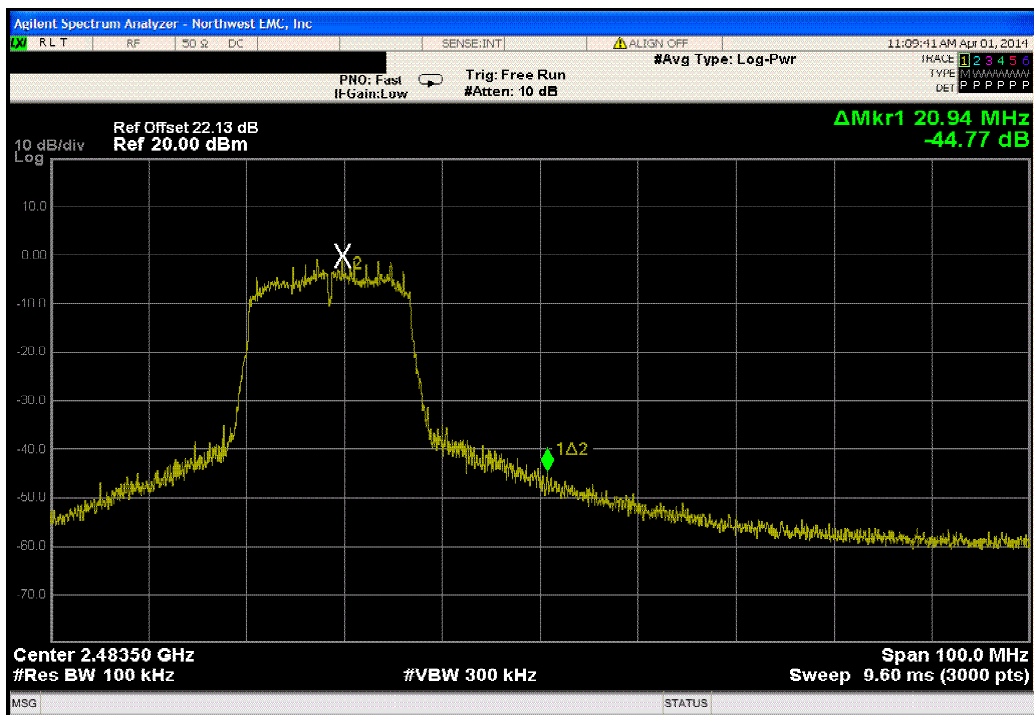
Antenna 0, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-35.97 dBc	≤ -20 dBc	Pass



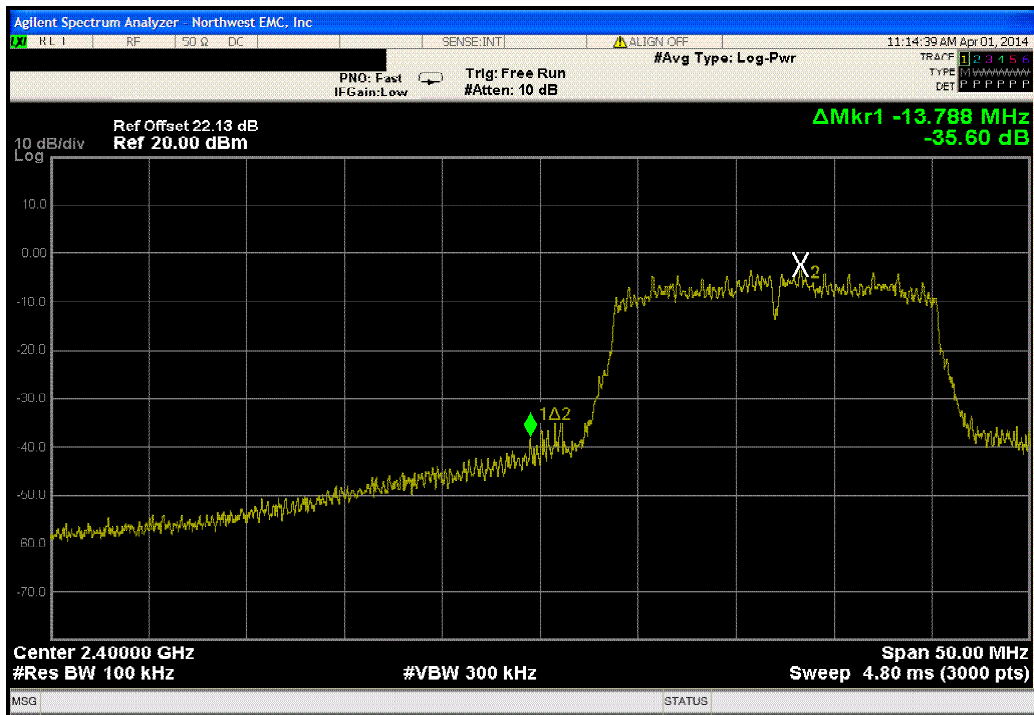
Antenna 0, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				-44.77 dBc	≤ -20 dBc	Pass



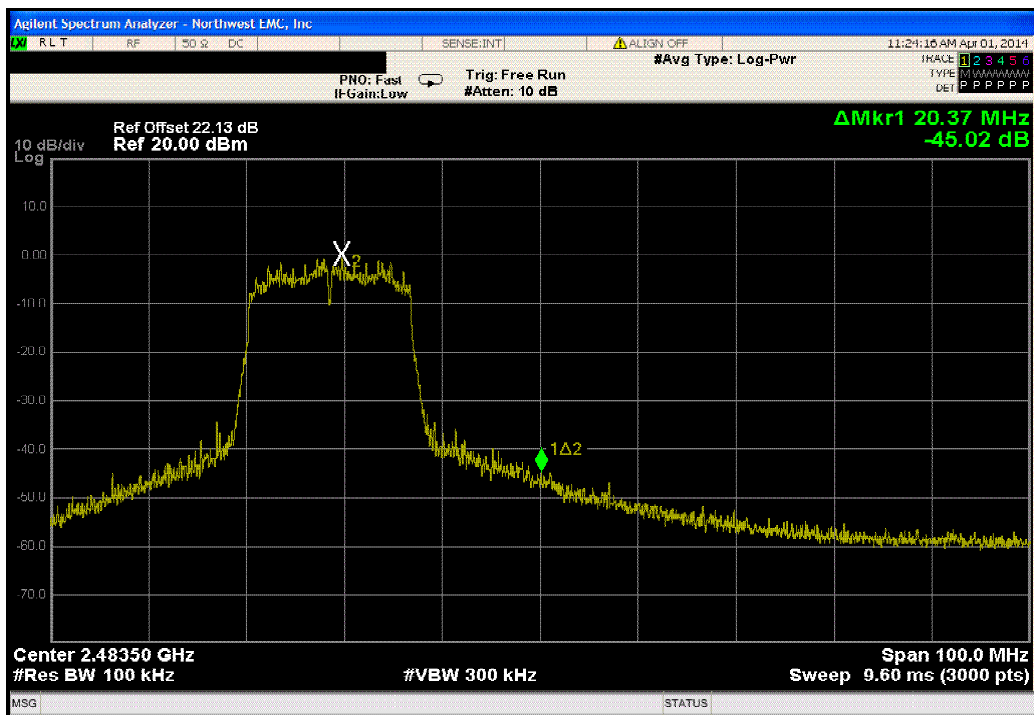
Antenna 0, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-35.6 dBc	≤ -20 dBc	Pass



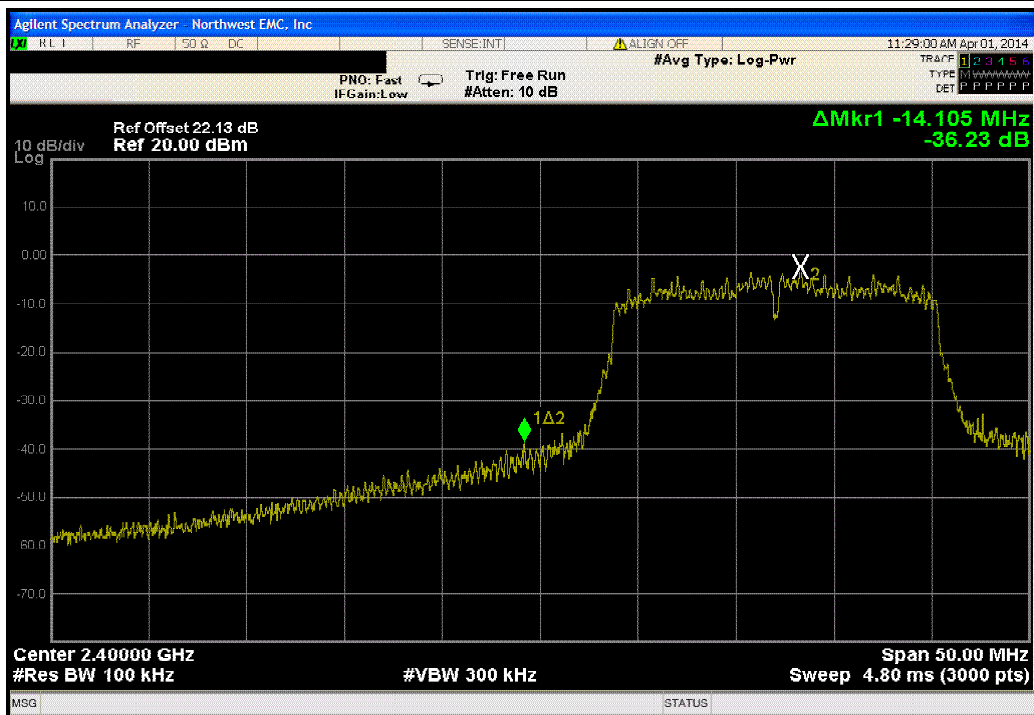
Antenna 0, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				-45.02 dBc	≤ -20 dBc	Pass



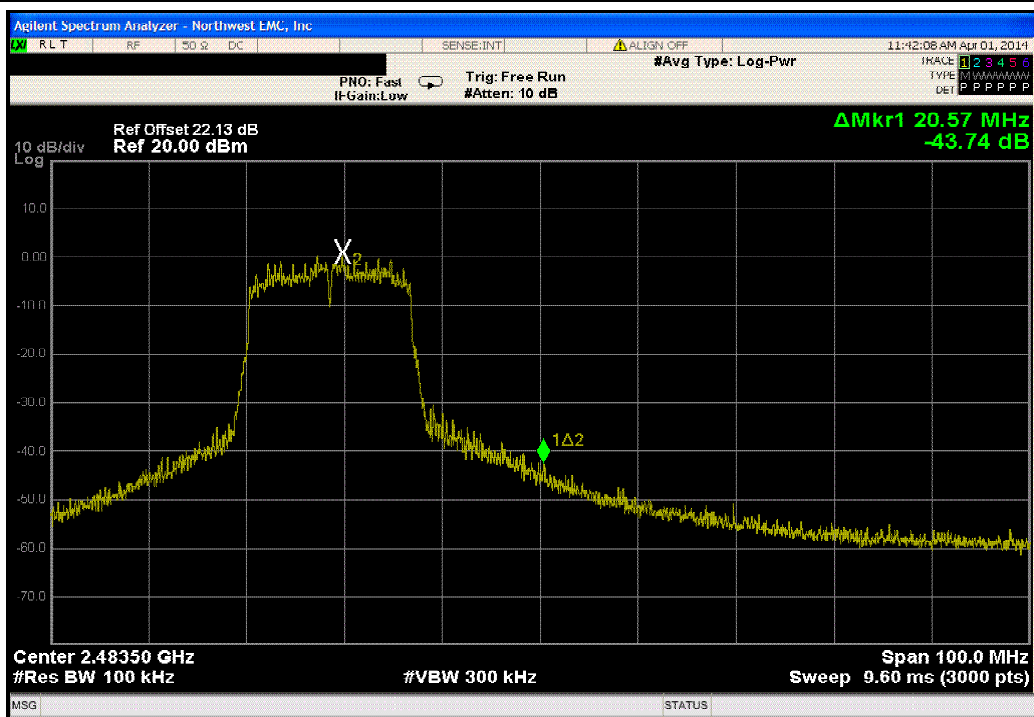
Antenna 0, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-36.23 dBc	≤ -20 dBc	Pass



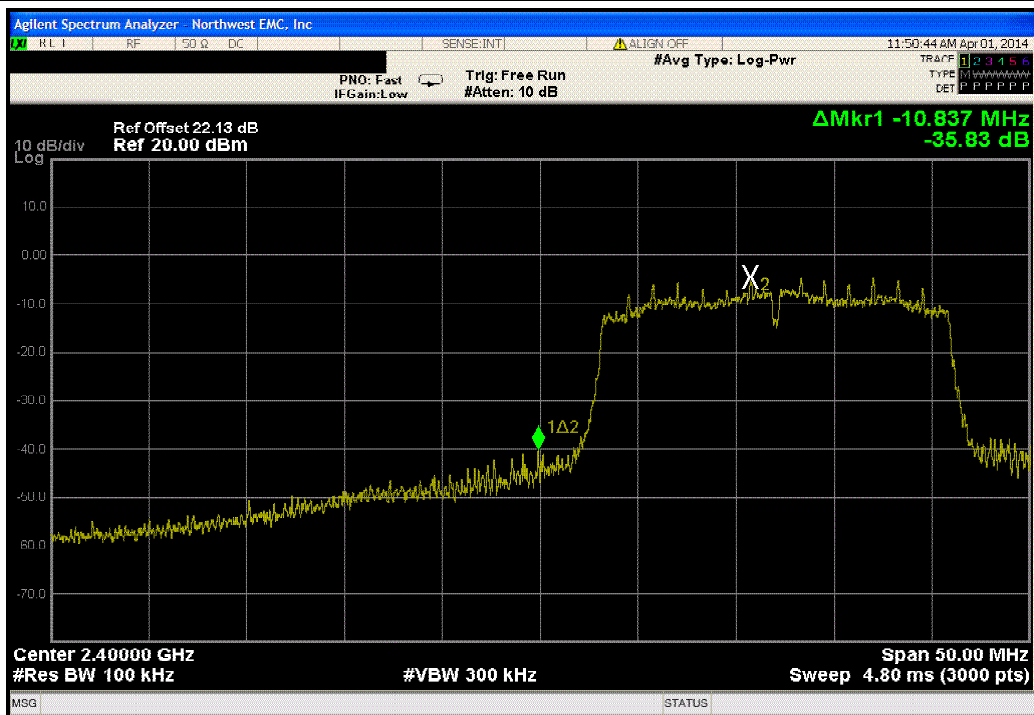
Antenna 0, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				-43.74 dBc	≤ -20 dBc	Pass



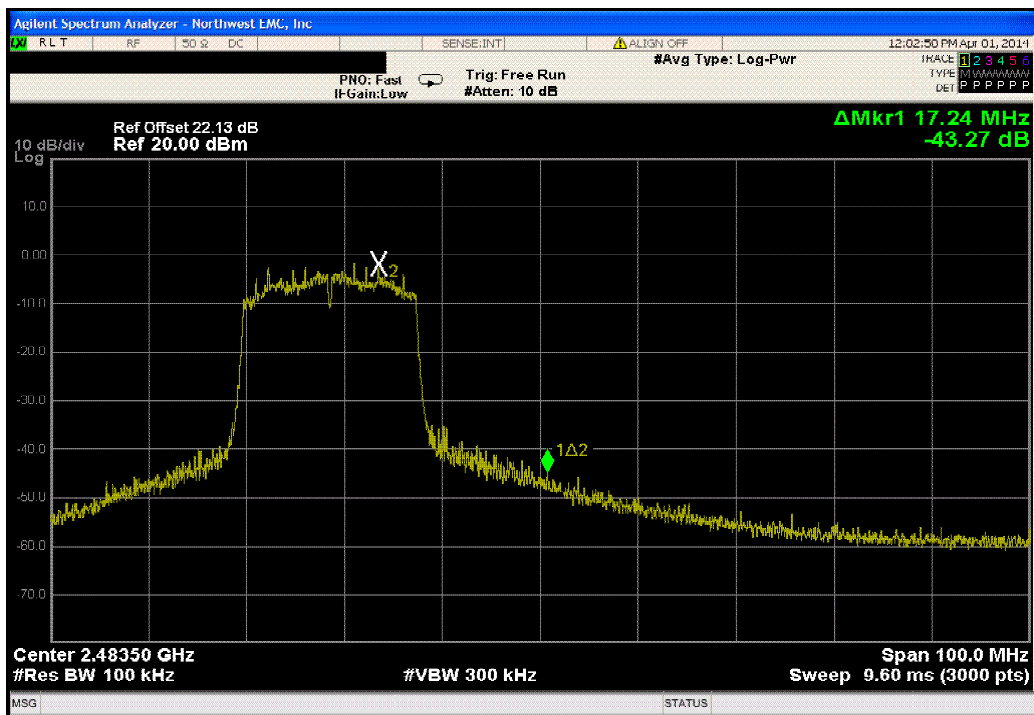
Antenna 0, 802.11(n) MCS0, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-35.83 dBc	≤ -20 dBc	Pass



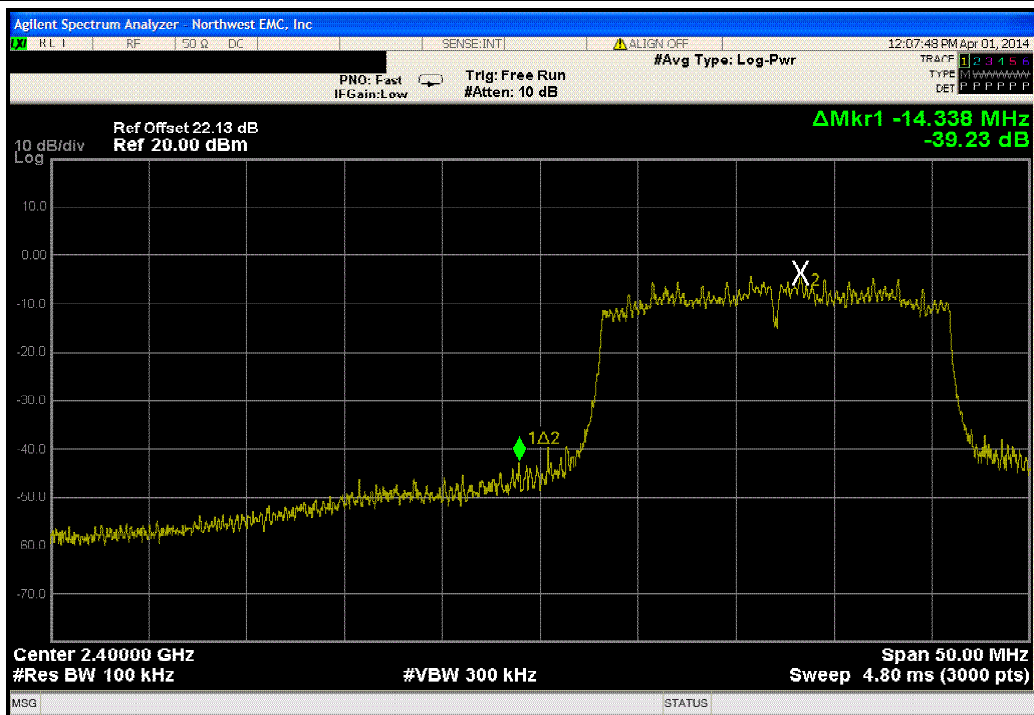
Antenna 0, 802.11(n) MCS0, High Channel 11, 2462 MHz

				Value	Limit	Result
				-43.27 dBc	≤ -20 dBc	Pass



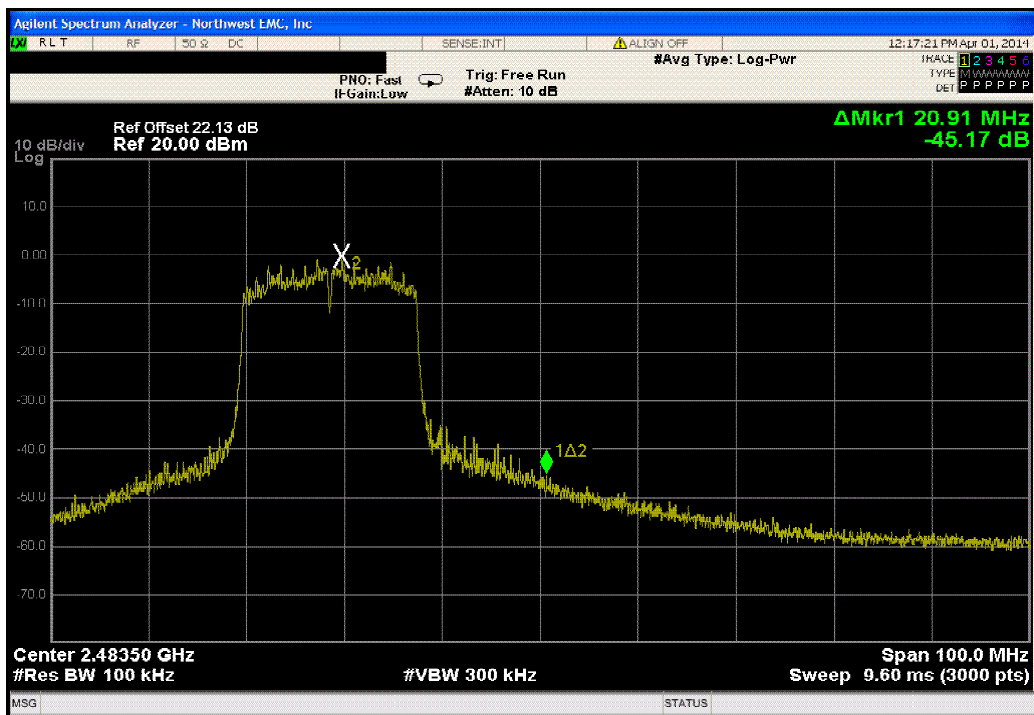
Antenna 0, 802.11(n) MCS7, Low Channel 1, 2412 MHz

	Value	Limit	Result
	-39.23 dBc	≤ -20 dBc	Pass



Antenna 0, 802.11(n) MCS7, High Channel 11, 2462 MHz

	Value	Limit	Result
	-45.17 dBc	≤ -20 dBc	Pass



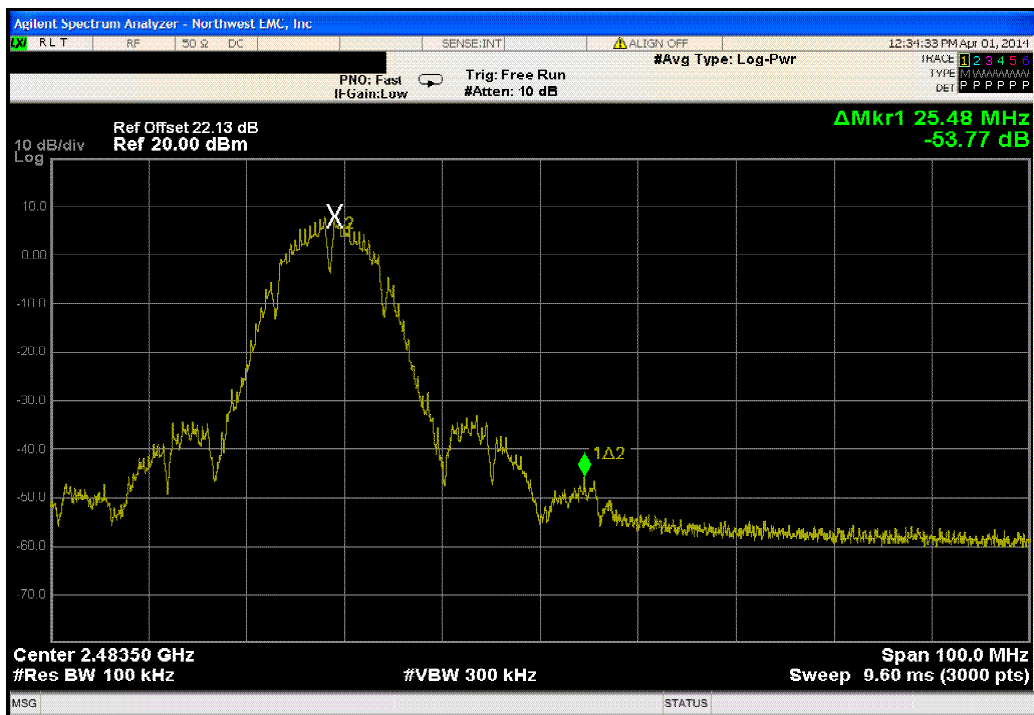
Antenna 1, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-40.52 dBc	≤ -20 dBc	Pass



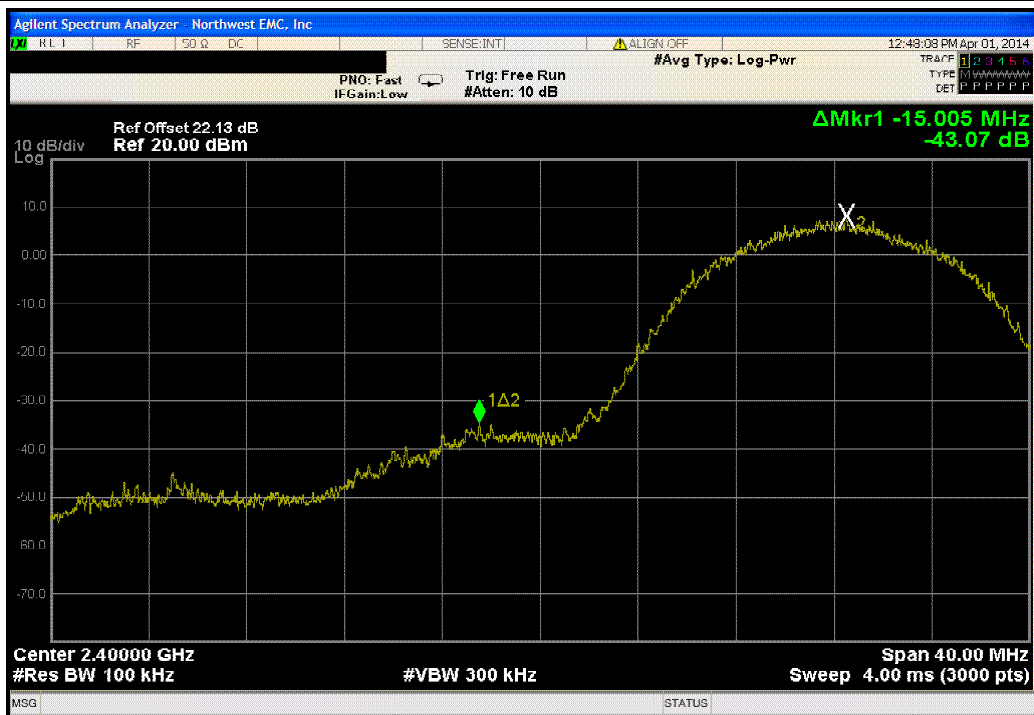
Antenna 1, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				-53.77 dBc	≤ -20 dBc	Pass



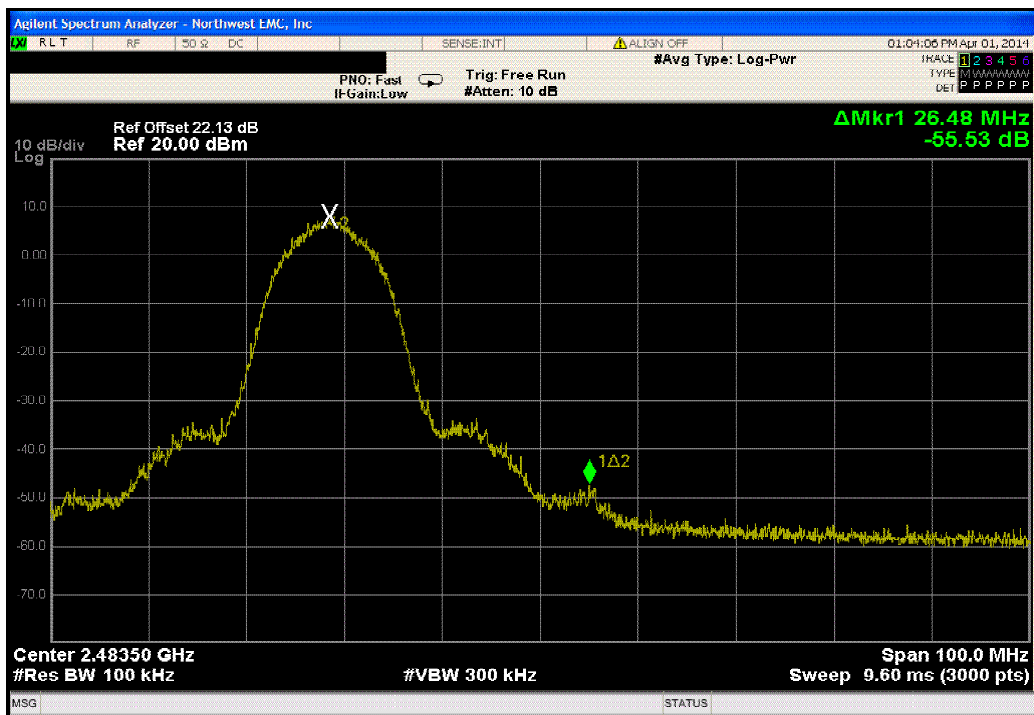
Antenna 1, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-43.08 dBc	≤ -20 dBc	Pass



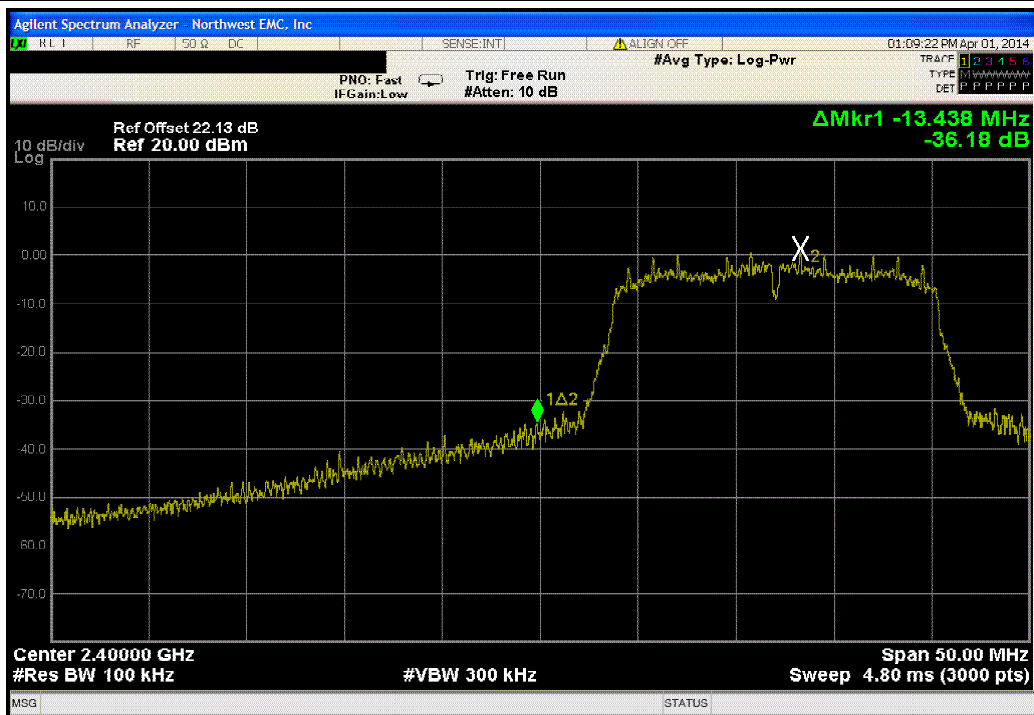
Antenna 1, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				-55.53 dBc	≤ -20 dBc	Pass



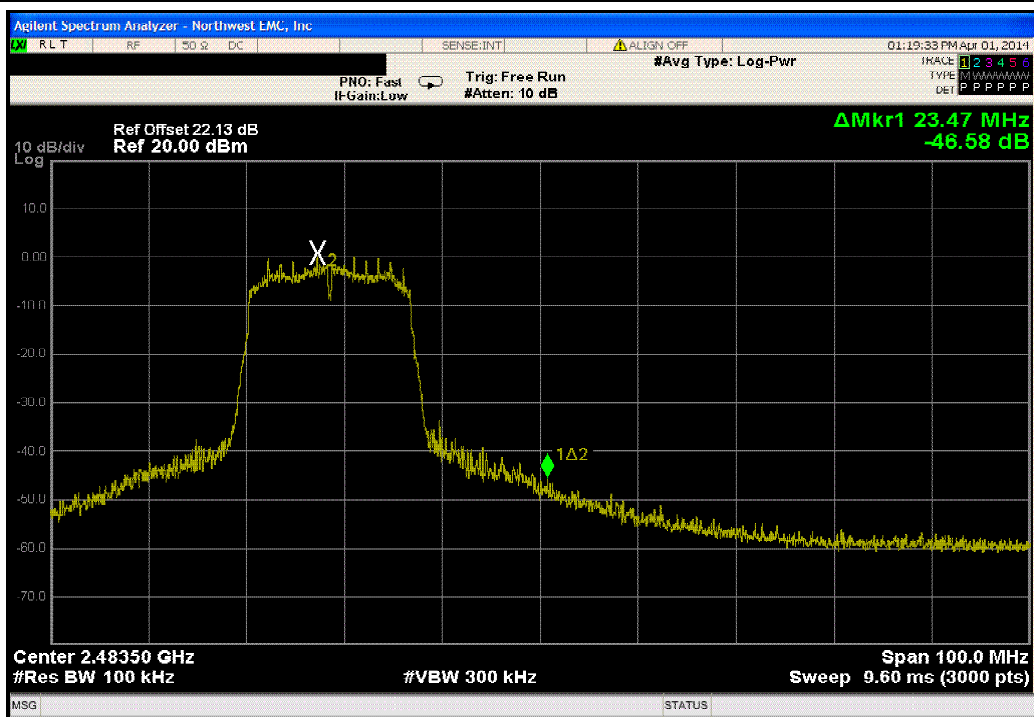
Antenna 1, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-36.19 dBc	≤ -20 dBc	Pass



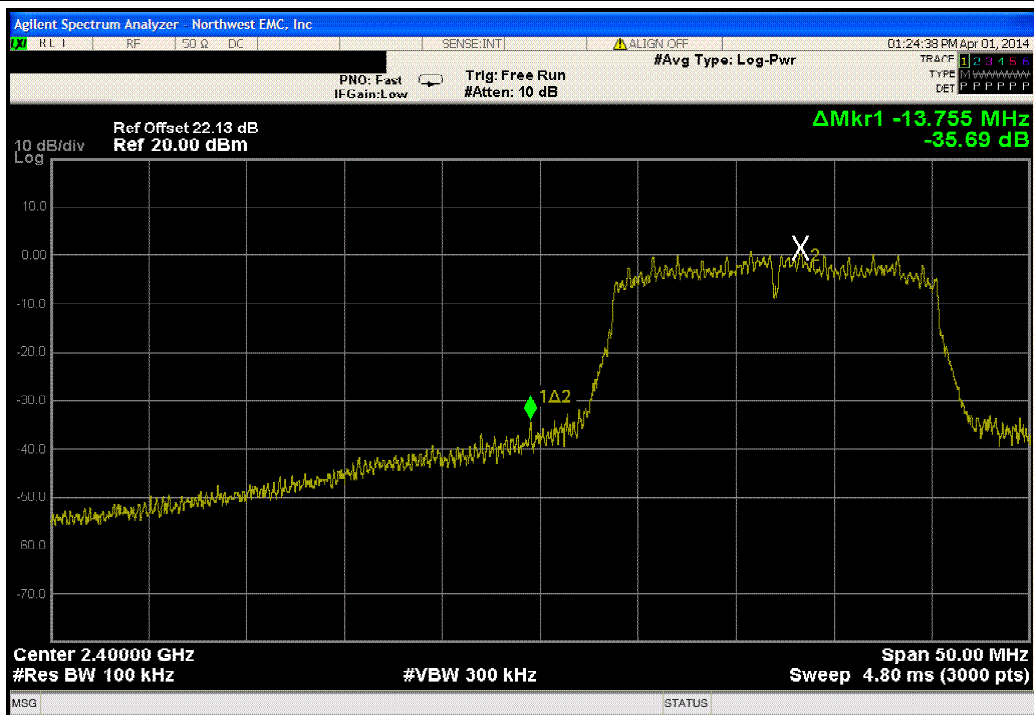
Antenna 1, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				-46.58 dBc	≤ -20 dBc	Pass



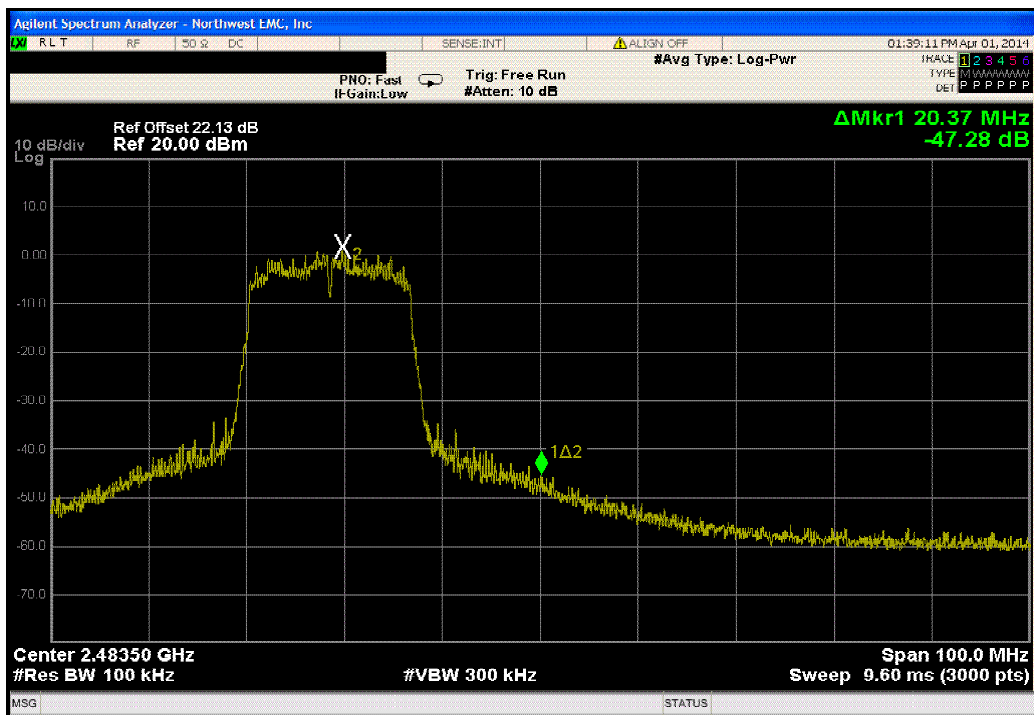
Antenna 1, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-35.7 dBc	≤ -20 dBc	Pass



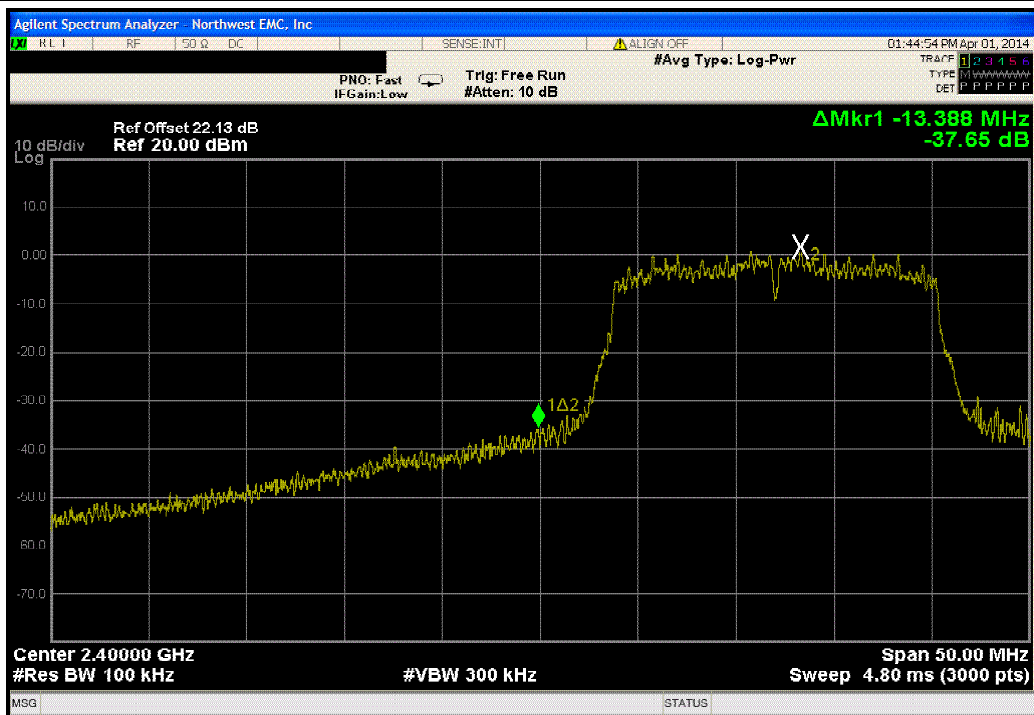
Antenna 1, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				-47.28 dBc	≤ -20 dBc	Pass



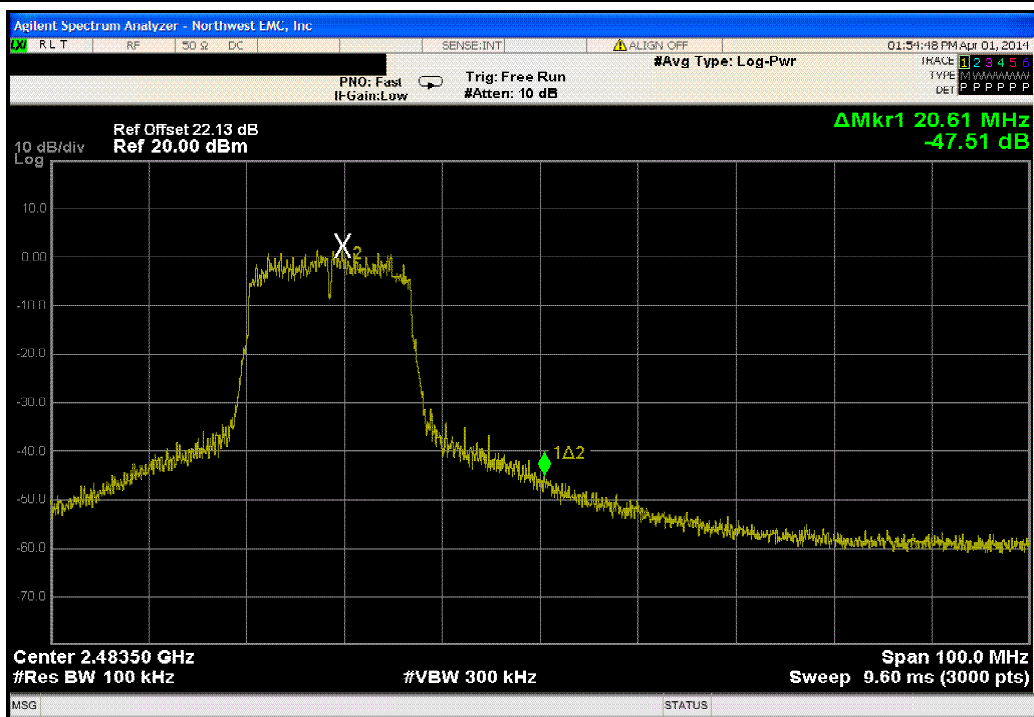
Antenna 1, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-37.66 dBc	≤ -20 dBc	Pass



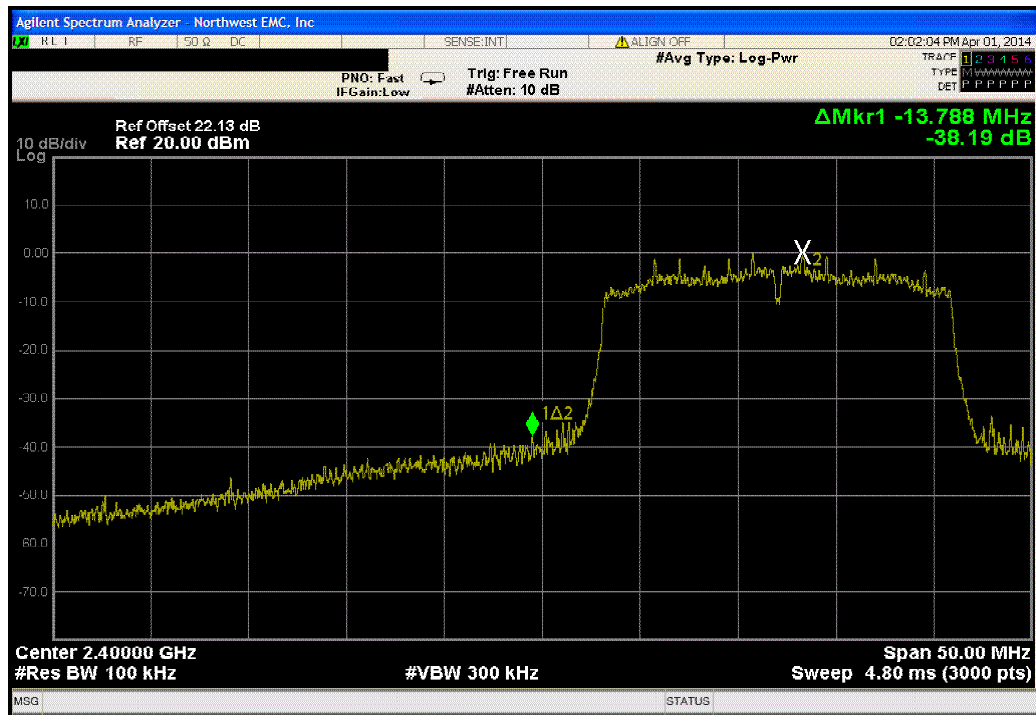
Antenna 1, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				-47.51 dBc	≤ -20 dBc	Pass



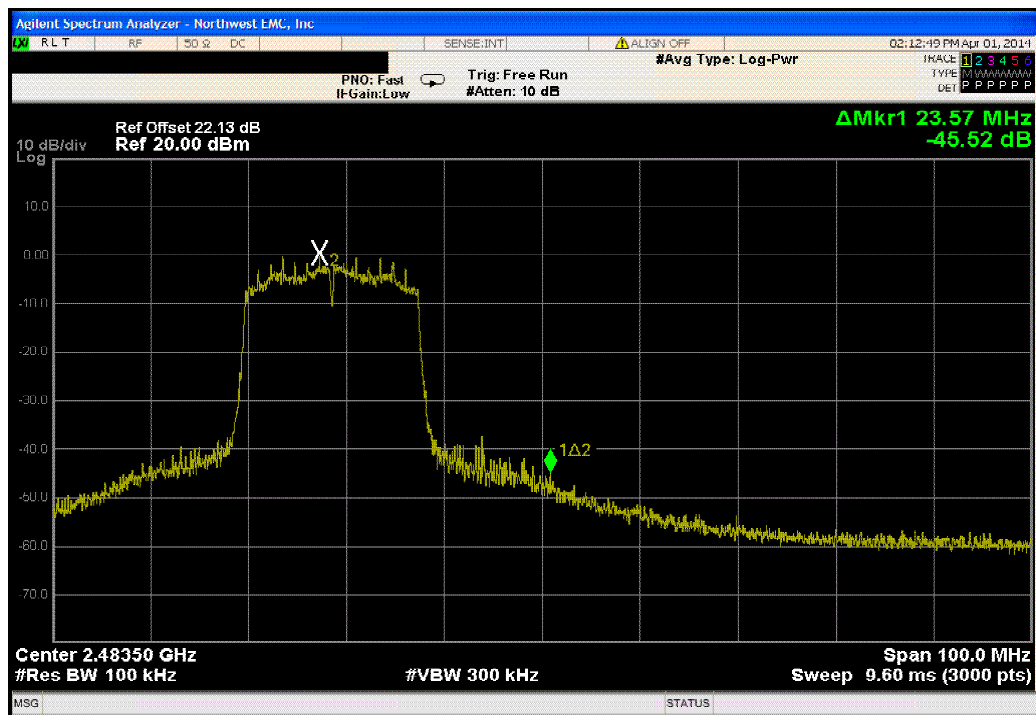
Antenna 1, 802.11(n) MCS0, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-38.19 dBc	≤ -20 dBc	Pass



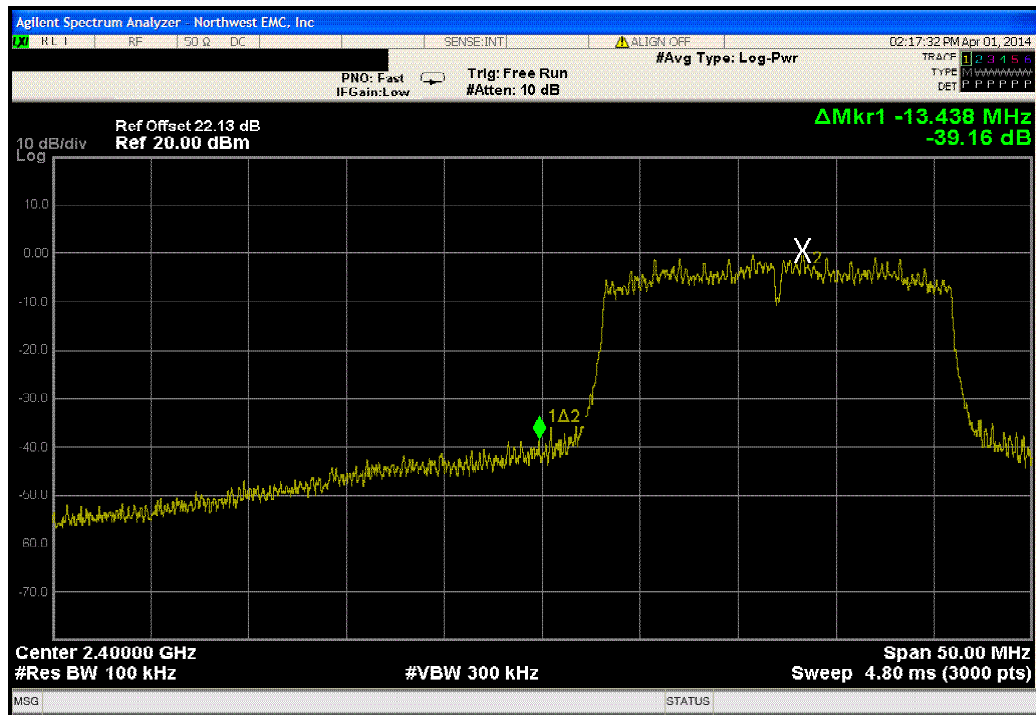
Antenna 1, 802.11(n) MCS0, High Channel 11, 2462 MHz

				Value	Limit	Result
				-45.52 dBc	≤ -20 dBc	Pass



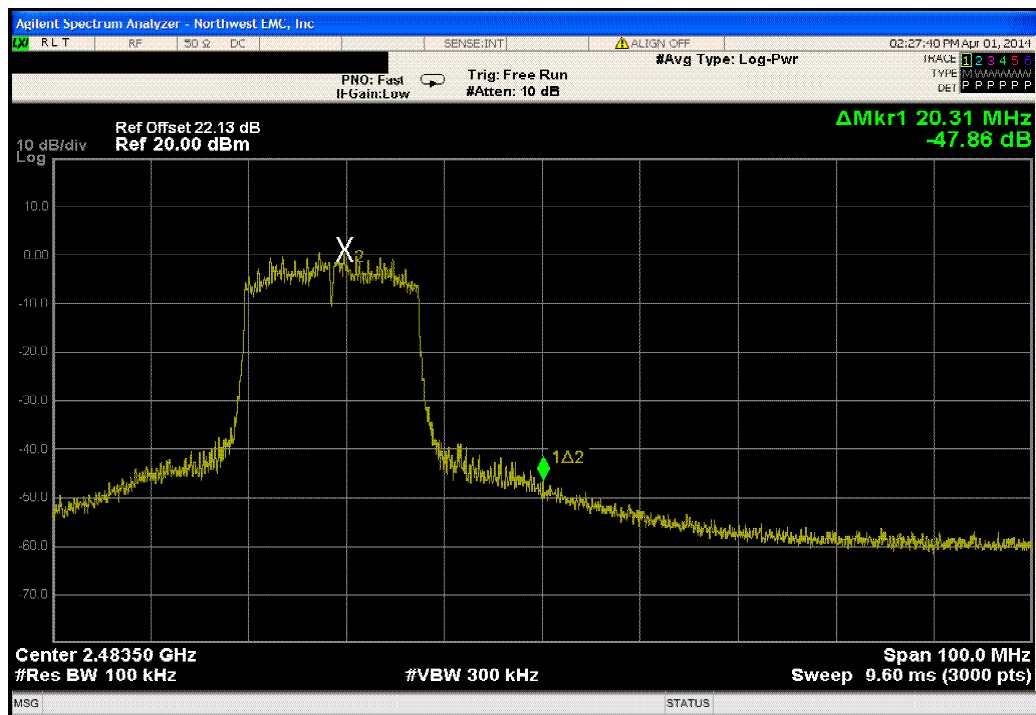
Antenna 1, 802.11(n) MCS7, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-39.16 dBc	≤ -20 dBc	Pass



Antenna 1, 802.11(n) MCS7, High Channel 11, 2462 MHz

				Value	Limit	Result
				-47.86 dBc	≤ -20 dBc	Pass



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 with 1, 11, 6, 36, 54 Mbps, MCS0, MCS7 at Ch 1, 6, 1: 2412, 2437, 2462 MHz (See Comments)

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

HNYW0061 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz Stop Frequency 25 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	6/1/2012	24 mo
Low Pass Filter	Micro-Tronics	LPM50004	HGK	5/31/2012	24 mo
Attenuator, 20 dB, 'SMA'	SM Electronics	SA6-20	REO	5/20/2013	12 mo
Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVN	9/26/2013	12 mo
26-40GHz Cable	N/A	TTBJ141-KMKM-72	MNQ	9/26/2013	12 mo
Antenna, Horn	ETS	3160-10	AIC	NCR	0 mo
Antenna, Horn	ETS Lindgren	3160-08	AIQ	NCR	0 mo
Antenna, Horn	ETS	3160-07	AXP	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVW	3/14/2014	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVV	3/14/2014	12 mo
MN05 Cables	ESM Cable Corp.	Standard Gain Horn Cables	MNJ	3/14/2014	12 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	3/14/2014	12 mo
MN05 Cables	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	3/14/2014	12 mo
Antenna, Horn (DRG)	ETS Lindgren	3115	AIP	6/29/2011	36 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	3/14/2014	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	3/14/2014	12 mo
Antenna, Bilog	Teseq	CBL 6141B	AYD	12/17/2013	12 mo
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	24 mo

MEASUREMENT BANDWIDTHS

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

TEST DESCRIPTION

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



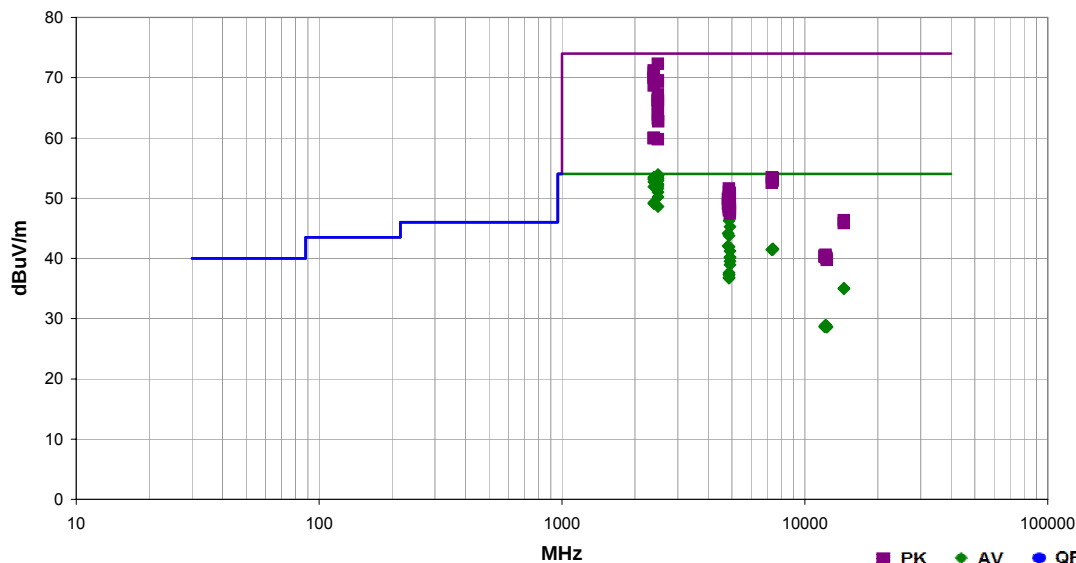
SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2014.02.19
EmiR5 2014.02.04

Work Order:	HNYW0061	Date:	03/27/14	<i>Trevor Buls</i>
Project:	None	Temperature:	23.3 °C	
Job Site:	MN05	Humidity:	17.9% RH	
Serial Number:	82302010004286	Barometric Pres.:	1001.9 mbar	
EUT:	TH8732WF			
Configuration:	1			
Customer:	Honeywell International, Inc.			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 802.11 with 1, 11, 6, 36, 54 Mbps, MCS0, MCS7 at Ch 1, 6, 1: 2412, 2437, 2462 MHz (See Comments)			
Deviations:	None			
Comments:	CC set to All. Antenna 0			

Test Specifications	Test Method
FCC 15.247:2014	ANSI C63.10:2009

Run #	65	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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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
2483.608	36.9	-3.0	1.0	6.0	3.0	20.0	Horz	AV	0.0	53.9	54.0	-0.1	EUT Horizontal, Ch 11, MCS0, P: 47
2487.692	36.7	-3.0	1.0	6.0	3.0	20.0	Horz	AV	0.0	53.7	54.0	-0.3	EUT Horizontal, Ch 11, 1 Mbps, P: 72
2483.508	36.7	-3.0	1.0	6.0	3.0	20.0	Horz	AV	0.0	53.7	54.0	-0.3	EUT Horizontal, Ch 11, 54 Mbps, P: 51
2389.925	36.8	-3.3	1.0	6.0	3.0	20.0	Horz	AV	0.0	53.5	54.0	-0.5	EUT Horizontal, Ch 1, 6 Mbps, P: 68
2483.517	36.3	-3.0	1.0	173.0	3.0	20.0	Horz	AV	0.0	53.3	54.0	-0.7	EUT Horizontal, Ch 11, 6 Mbps, P: 48
2389.992	36.6	-3.3	1.0	6.0	3.0	20.0	Horz	AV	0.0	53.3	54.0	-0.7	EUT Horizontal, Ch 1, 36 Mbps, P: 68
2483.508	36.2	-3.0	1.0	6.0	3.0	20.0	Horz	AV	0.0	53.2	54.0	-0.8	EUT Horizontal, Ch 11, MCS7, P: 47
2389.942	36.4	-3.3	1.0	6.0	3.0	20.0	Horz	AV	0.0	53.1	54.0	-0.9	EUT Horizontal, Ch 1, 54 Mbps, P: 68
2483.567	35.9	-3.0	1.0	6.0	3.0	20.0	Horz	AV	0.0	52.9	54.0	-1.1	EUT Horizontal, Ch 11, 36 Mbps, P: 48
2389.933	36.0	-3.3	1.0	6.0	3.0	20.0	Horz	AV	0.0	52.7	54.0	-1.3	EUT Horizontal, Ch 1, MCS0, P: 66
2484.283	55.3	-3.0	1.0	6.0	3.0	20.0	Horz	PK	0.0	72.3	74.0	-1.7	EUT Horizontal, Ch 11, MCS0, P: 47
2483.650	35.3	-3.0	1.0	142.0	3.0	20.0	Vert	AV	0.0	52.3	54.0	-1.7	EUT on Side, Ch 11, 6 Mbps, P: 48
2487.842	35.0	-3.0	1.0	6.0	3.0	20.0	Horz	AV	0.0	52.0	54.0	-2.0	EUT Horizontal, Ch 11, 11 Mbps, P: 72
2389.925	35.2	-3.3	1.0	6.0	3.0	20.0	Horz	AV	0.0	51.9	54.0	-2.1	EUT Horizontal, Ch 1, MCS7, P: 60
2483.508	34.6	-3.0	1.0	250.0	3.0	20.0	Vert	AV	0.0	51.6	54.0	-2.4	EUT Vertical, Ch 11, 6 Mbps, P: 48
2389.758	54.5	-3.3	1.0	6.0	3.0	20.0	Horz	PK	0.0	71.2	74.0	-2.8	EUT Horizontal, Ch 1, 36 Mbps, P: 68
2483.617	34.0	-3.0	1.0	211.0	3.0	20.0	Horz	AV	0.0	51.0	54.0	-3.0	EUT on Side, Ch 11, 6 Mbps, P: 48
2389.942	54.1	-3.3	1.0	6.0	3.0	20.0	Horz	PK	0.0	70.8	74.0	-3.2	EUT Horizontal, Ch 1, 6 Mbps, P: 68
2483.517	33.2	-3.0	1.0	208.0	3.0	20.0	Horz	AV	0.0	50.2	54.0	-3.8	EUT Vertical, Ch 11, 6 Mbps, P: 48
2389.983	53.3	-3.3	1.0	6.0	3.0	20.0	Horz	PK	0.0	70.0	74.0	-4.0	EUT Horizontal, Ch 1, 54 Mbps, P: 68
2389.992	53.3	-3.3	1.0	6.0	3.0	20.0	Horz	PK	0.0	70.0	74.0	-4.0	EUT Horizontal, Ch 1, MCS0, P: 66
2483.508	52.5	-3.0	1.0	6.0	3.0	20.0	Horz	PK	0.0	69.5	74.0	-4.5	EUT Horizontal, Ch 11, 54 Mbps, P: 51
2483.542	52.3	-3.0	1.0	173.0	3.0	20.0	Horz	PK	0.0	69.3	74.0	-4.7	EUT Horizontal, Ch 11, 6 Mbps, P: 48
2386.192	32.5	-3.3	1.0	6.0	3.0	20.0	Horz	AV	0.0	49.2	54.0	-4.8	EUT Horizontal, Ch 1, 1 Mbps, P: 72
2389.983	32.4	-3.3	1.0	6.0	3.0	20.0	Horz	AV	0.0	49.1	54.0	-4.9	EUT Horizontal, Ch 1, 11 Mbps, P: 72
2389.875	52.0	-3.3	1.0	6.0	3.0	20.0	Horz	PK	0.0	68.7	74.0	-5.3	EUT Horizontal, Ch 1, MCS7, P: 60
2483.767	31.6	-3.0	1.0	235.0	3.0	20.0	Vert	AV	0.0	48.6	54.0	-5.4	EUT Horizontal, Ch 11, 6 Mbps, P: 48
2483.658	50.2	-3.0	1.0	6.0	3.0	20.0	Horz	PK	0.0	67.2	74.0	-6.8	EUT Horizontal, Ch 11, MCS7, P: 47
2483.533	49.3	-3.0	1.0	6.0	3.0	20.0	Horz	PK	0.0	66.3	74.0	-7.7	EUT Horizontal, Ch 11, 36 Mbps, P: 48
4874.008	41.3	5.0	1.0	59.0	3.0	0.0	Horz	AV	0.0	46.3	54.0	-7.7	EUT Vertical, 1 Mbps, Ch 6, PL 72
2483.683	49.2	-3.0	1.0	250.0	3.0	20.0	Vert	PK	0.0	66.2	74.0	-7.8	EUT Vertical, Ch 11, 6 Mbps, P: 48
2483.517	49.0	-3.0	1.0	142.0	3.0	20.0	Vert	PK	0.0	66.0	74.0	-8.0	EUT on Side, Ch 11, 6 Mbps, P: 48
2483.583	48.3	-3.0	1.0	211.0	3.0	20.0	Horz	PK	0.0	65.3	74.0	-8.7	EUT on Side, Ch 11, 6 Mbps, P: 48
4924.058	40.4	4.8	1.0	73.0	3.0	0.0	Horz	AV	0.0	45.2	54.0	-8.8	EUT Vertical, 1 Mbps, Ch 11, PL 72

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
4823.992	38.9	5.3	1.0	59.0	3.0	0.0	Horz	AV	0.0	44.2	54.0	-9.8	EUT Vertical, 1 Mbps, Ch 1, PL 72
2483.583	46.9	-3.0	1.0	208.0	3.0	20.0	Horz	PK	0.0	63.9	74.0	-10.1	EUT Vertical, Ch 11, 6 Mbps, P: 48
4873.992	38.8	5.0	1.0	144.0	3.0	0.0	Vert	AV	0.0	43.8	54.0	-10.2	EUT Horizontal, 1 Mbps, Ch 6, PL 72
2486.892	46.2	-3.0	1.0	6.0	3.0	20.0	Horz	PK	0.0	63.2	74.0	-10.8	EUT Horizontal, Ch 11, 1 Mbps, P: 72
2488.433	45.7	-3.0	1.0	6.0	3.0	20.0	Horz	PK	0.0	62.7	74.0	-11.3	EUT Horizontal, Ch 11, 11 Mbps, P: 72
4823.983	36.8	5.3	1.0	144.0	3.0	0.0	Vert	AV	0.0	42.1	54.0	-11.9	EUT Horizontal, 1 Mbps, Ch 1, PL 72
4874.058	36.9	5.0	1.0	64.0	3.0	0.0	Horz	AV	0.0	41.9	54.0	-12.1	EUT Vertical, 11 Mbps, Ch 6, PL 72
7385.900	29.0	12.6	2.2	304.0	3.0	0.0	Vert	AV	0.0	41.6	54.0	-12.4	EUT Horizontal, 1 Mbps, Ch 11, PL 72
7385.767	28.9	12.6	1.0	71.0	3.0	0.0	Horz	AV	0.0	41.5	54.0	-12.5	EUT Vertical, 1 Mbps, Ch 11, PL 72
7312.075	29.3	12.1	3.8	303.0	3.0	0.0	Horz	AV	0.0	41.4	54.0	-12.6	EUT Vertical, 1 Mbps, Ch 11, PL 72
7310.658	29.3	12.1	4.0	260.0	3.0	0.0	Vert	AV	0.0	41.4	54.0	-12.6	EUT Horizontal, 1 Mbps, Ch 6, PL 72
4924.033	36.4	4.8	1.0	125.0	3.0	0.0	Vert	AV	0.0	41.2	54.0	-12.8	EUT Horizontal, 1 Mbps, Ch 11, PL 72
4923.975	35.4	4.8	1.0	333.0	3.0	0.0	Horz	AV	0.0	40.2	54.0	-13.8	EUT on Side, 1 Mbps, Ch 11, PL 72
4923.983	35.3	4.8	1.1	317.0	3.0	0.0	Vert	AV	0.0	40.1	54.0	-13.9	EUT Vertical, 1 Mbps, Ch 11, PL 72
2385.875	43.3	-3.3	1.0	6.0	3.0	20.0	Horz	PK	0.0	60.0	74.0	-14.0	EUT Horizontal, Ch 1, 1 Mbps, P: 72
2389.650	43.2	-3.3	1.0	6.0	3.0	20.0	Horz	PK	0.0	59.9	74.0	-14.1	EUT Horizontal, Ch 1, 11 Mbps, P: 72
2487.983	42.7	-3.0	1.0	235.0	3.0	20.0	Vert	PK	0.0	59.7	74.0	-14.3	EUT Horizontal, Ch 11, 6 Mbps, P: 48
4924.025	34.7	4.8	1.0	18.0	3.0	0.0	Horz	AV	0.0	39.5	54.0	-14.5	EUT Horizontal, 1 Mbps, Ch 11, PL 72
4923.975	34.1	4.8	1.0	190.0	3.0	0.0	Vert	AV	0.0	38.9	54.0	-15.1	EUT on Side, 1 Mbps, Ch 11, PL 72
4874.533	32.6	5.0	1.0	64.0	3.0	0.0	Horz	AV	0.0	37.6	54.0	-16.4	EUT Vertical, 6 Mbps, Ch 6, PL 68
4872.500	32.3	5.0	1.0	64.0	3.0	0.0	Horz	AV	0.0	37.3	54.0	-16.7	EUT Vertical, 36 Mbps, Ch 6, PL 68
4872.900	32.3	5.0	1.0	64.0	3.0	0.0	Horz	AV	0.0	37.3	54.0	-16.7	EUT Vertical, 54 Mbps, Ch 6, PL 68
4874.567	31.8	5.0	1.0	64.0	3.0	0.0	Horz	AV	0.0	36.8	54.0	-17.2	EUT Vertical, MCS0, Ch 6, PL 66
4872.992	31.7	5.0	1.0	64.0	3.0	0.0	Horz	AV	0.0	36.7	54.0	-17.3	EUT Vertical, MCS7, Ch 6, PL 60
14471.960	31.5	3.5	1.0	103.0	3.0	0.0	Vert	AV	0.0	35.0	54.0	-19.0	EUT Horizontal, 1 Mbps, Ch 1, PL 72
14469.620	31.4	3.6	1.0	49.0	3.0	0.0	Horz	AV	0.0	35.0	54.0	-19.0	EUT Vertical, 1 Mbps, Ch 1, PL 72
7310.800	41.3	12.1	3.8	303.0	3.0	0.0	Horz	PK	0.0	53.4	74.0	-20.6	EUT Vertical, 1 Mbps, Ch 6, PL 72
7385.967	40.7	12.6	2.2	304.0	3.0	0.0	Vert	PK	0.0	53.3	74.0	-20.7	EUT Horizontal, 1 Mbps, Ch 11, PL 72
7385.375	40.3	12.6	1.0	71.0	3.0	0.0	Horz	PK	0.0	52.9	74.0	-21.1	EUT Vertical, 1 Mbps, Ch 11, PL 72
7309.608	40.4	12.1	4.0	260.0	3.0	0.0	Vert	PK	0.0	52.5	74.0	-21.5	EUT Horizontal, 1 Mbps, Ch 6, PL 72
4873.983	46.6	5.0	1.0	59.0	3.0	0.0	Horz	PK	0.0	51.6	74.0	-22.4	EUT Vertical, 1 Mbps, Ch 6, PL 72
4874.033	46.0	5.0	1.0	64.0	3.0	0.0	Horz	PK	0.0	51.0	74.0	-23.0	EUT Vertical, 11 Mbps, Ch 6, PL 72
4923.867	46.0	4.8	1.0	73.0	3.0	0.0	Horz	PK	0.0	50.8	74.0	-23.2	EUT Vertical, 1 Mbps, Ch 11, PL 72
4873.817	45.2	5.0	1.0	144.0	3.0	0.0	Vert	PK	0.0	50.2	74.0	-23.8	EUT Horizontal, 1 Mbps, Ch 6, PL 72
4823.533	44.6	5.3	1.0	59.0	3.0	0.0	Horz	PK	0.0	49.9	74.0	-24.1	EUT Vertical, 1 Mbps, Ch 1, PL 72
4923.717	44.3	4.8	1.0	333.0	3.0	0.0	Horz	PK	0.0	49.1	74.0	-24.9	EUT on Side, 1 Mbps, Ch 11, PL 72
4823.842	43.8	5.3	1.0	144.0	3.0	0.0	Vert	PK	0.0	49.1	74.0	-24.9	EUT Horizontal, 1 Mbps, Ch 1, PL 72
12185.210	33.9	-5.0	1.0	354.0	3.0	0.0	Vert	AV	0.0	28.9	54.0	-25.1	EUT Horizontal, 1 Mbps, Ch 6, PL 72
12186.930	33.9	-5.0	1.0	101.0	3.0	0.0	Horz	AV	0.0	28.9	54.0	-25.1	EUT Vertical, 1 Mbps, Ch 6, PL 72
4875.475	43.8	5.0	1.0	64.0	3.0	0.0	Horz	PK	0.0	48.8	74.0	-25.2	EUT Vertical, 6 Mbps, Ch 6, PL 68
12061.830	33.9	-5.1	1.0	102.0	3.0	0.0	Horz	AV	0.0	28.8	54.0	-25.2	EUT Vertical, 1 Mbps, Ch 1, PL 72
4873.667	43.7	5.0	1.0	64.0	3.0	0.0	Horz	PK	0.0	48.7	74.0	-25.3	EUT Vertical, 54 Mbps, Ch 6, PL 68
12311.010	33.6	-4.9	3.5	116.0	3.0	0.0	Horz	AV	0.0	28.7	54.0	-25.3	EUT Vertical, 1 Mbps, Ch 11, PL 72
12060.730	33.8	-5.2	1.9	15.0	3.0	0.0	Vert	AV	0.0	28.6	54.0	-25.4	EUT Horizontal, 1 Mbps, Ch 1, PL 72
12311.210	33.5	-4.9	1.0	90.0	3.0	0.0	Vert	AV	0.0	28.6	54.0	-25.4	EUT Horizontal, 1 Mbps, Ch 11, PL 72
4924.142	43.7	4.8	1.0	125.0	3.0	0.0	Vert	PK	0.0	48.5	74.0	-25.5	EUT Horizontal, 1 Mbps, Ch 11, PL 72
4875.192	43.5	5.0	1.0	64.0	3.0	0.0	Horz	PK	0.0	48.5	74.0	-25.5	EUT Vertical, 36 Mbps, Ch 6, PL 68
4873.192	43.3	5.0	1.0	64.0	3.0	0.0	Horz	PK	0.0	48.3	74.0	-25.7	EUT Vertical, MCS7, Ch 6, PL 60
4924.225	43.3	4.8	1.1	317.0	3.0	0.0	Vert	PK	0.0	48.1	74.0	-25.9	EUT Vertical, 1 Mbps, Ch 11, PL 72
4875.067	43.0	5.0	1.0	64.0	3.0	0.0	Horz	PK	0.0	48.0	74.0	-26.0	EUT Vertical, MCS0, Ch 6, PL 66
4923.958	43.1	4.8	1.0	18.0	3.0	0.0	Horz	PK	0.0	47.9	74.0	-26.1	EUT Horizontal, 1 Mbps, Ch 11, PL 72
4923.958	42.6	4.8	1.0	190.0	3.0	0.0	Vert	PK	0.0	47.4	74.0	-26.6	EUT on Side, 1 Mbps, Ch 11, PL 72
14474.360	42.8	3.5	1.0	103.0	3.0	0.0	Vert	PK	0.0	46.3	74.0	-27.7	EUT Horizontal, 1 Mbps, Ch 1, PL 72
14472.250	42.3	3.5	1.0	49.0	3.0	0.0	Horz	PK	0.0	45.8	74.0	-28.2	EUT Vertical, 1 Mbps, Ch 1, PL 72
12186.880	45.6	-5.0	1.0	354.0	3.0	0.0	Vert	PK	0.0	40.6	74.0	-33.4	EUT Horizontal, 1 Mbps, Ch 6, PL 72
12058.090	45.6	-5.2	1.0	102.0	3.0	0.0	Horz	PK	0.0	40.4	74.0	-33.6	EUT Vertical, 1 Mbps, Ch 1, PL 72
12185.520	45.3	-5.0	1.0	101.0	3.0	0.0	Horz	PK	0.0	40.3	74.0	-33.7	EUT Vertical, 1 Mbps, Ch 6, PL 72
12060.310	45.4	-5.2	1.9	15.0	3.0	0.0	Vert	PK	0.0	40.2	74.0	-33.8	EUT Horizontal, 1 Mbps, Ch 1, PL 72
12309.230	45.0	-5.0	1.0	90.0	3.0	0.0	Vert	PK	0.0	40.0	74.0	-34.0	EUT Horizontal, 1 Mbps, Ch 11, PL 72
12310.630	44.7	-4.9	3.5	116.0	3.0	0.0	Horz	PK	0.0	39.8	74.0	-34.2	EUT Vertical, 1 Mbps, Ch 11, PL 72



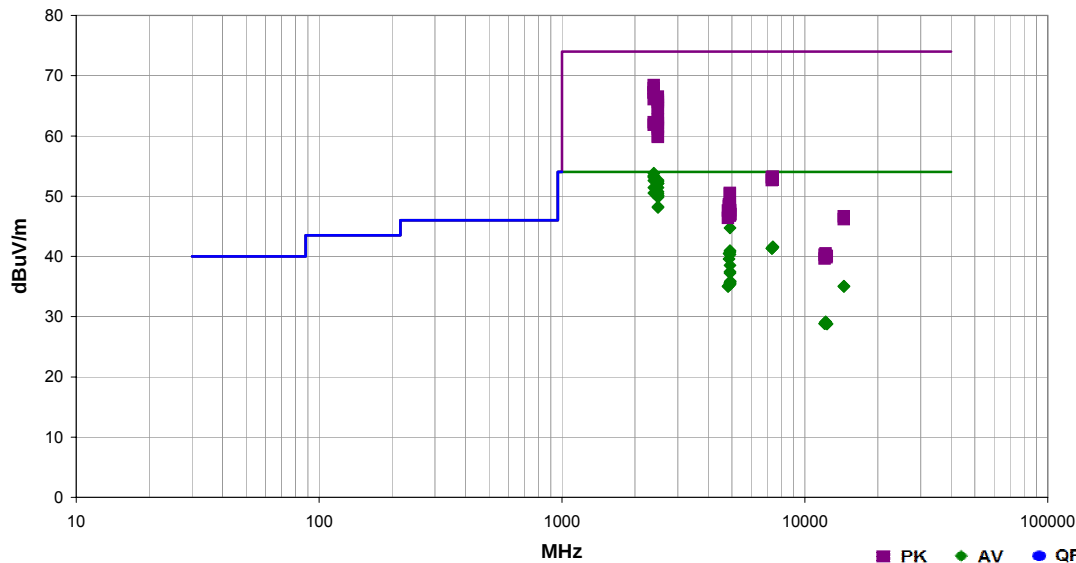
SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2014.02.19
EmiR5 2014.02.04

Work Order:	HNYW0061	Date:	03/27/14	<i>Trevor Buls</i>
Project:	None	Temperature:	23.3 °C	
Job Site:	MN05	Humidity:	17.9% RH	
Serial Number:	82302010004286	Barometric Pres.:	1001.9 mbar	
EUT:	TH8732WF			
Configuration:	1			
Customer:	Honeywell International , Inc.			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 802.11 with 1, 11, 6, 36, 54 Mbps, MCS0, MCS7 at Ch 1, 6, 1: 2412, 2437, 2462 MHz (See Comments)			
Deviations:	None			
Comments:	CC set to All. Antenna 1			

Test Specifications	Test Method
FCC 15.247:2014	ANSI C63.10:2009

Run #	49	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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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
2389.975	37.1	-3.3	1.0	27.0	3.0	20.0	Horz	AV	0.0	53.8	54.0	-0.2	EUT Horizontal, Ch 1, 6 Mbps, P: 51
2389.992	36.7	-3.3	1.0	27.0	3.0	20.0	Horz	AV	0.0	53.4	54.0	-0.6	EUT Horizontal, Ch 1, 36 Mbps, P: 51
2389.950	36.6	-3.3	1.0	27.0	3.0	20.0	Horz	AV	0.0	53.3	54.0	-0.7	EUT Horizontal, Ch 1, MCS0, P: 47
2390.000	36.4	-3.3	1.0	27.0	3.0	20.0	Horz	AV	0.0	53.1	54.0	-0.9	EUT Horizontal, Ch 1, 54 Mbps, P: 51
2483.508	35.6	-3.0	1.0	27.0	3.0	20.0	Horz	AV	0.0	52.6	54.0	-1.4	EUT Horizontal, Ch 11, MCS0, P: 47
2389.950	35.9	-3.3	1.0	27.0	3.0	20.0	Horz	AV	0.0	52.6	54.0	-1.4	EUT Horizontal, Ch 1, MCS7, P: 47
2483.508	35.4	-3.0	1.0	27.0	3.0	20.0	Horz	AV	0.0	52.4	54.0	-1.6	EUT Horizontal, Ch 11, 54 Mbps, P: 51
2483.567	35.1	-3.0	1.1	29.0	3.0	20.0	Horz	AV	0.0	52.1	54.0	-1.9	EUT Horizontal, Ch 11, 6 Mbps, P: 48
2483.508	35.1	-3.0	1.0	27.0	3.0	20.0	Horz	AV	0.0	52.1	54.0	-1.9	EUT Horizontal, Ch 11, MCS7, P: 47
2386.467	34.7	-3.3	1.0	27.0	3.0	20.0	Horz	AV	0.0	51.4	54.0	-2.6	EUT Horizontal, Ch 1, 1 Mbps, P: 72
2483.558	34.4	-3.0	1.0	27.0	3.0	20.0	Horz	AV	0.0	51.4	54.0	-2.6	EUT Horizontal, Ch 11, 36 Mbps, P: 48
2483.500	33.7	-3.0	1.3	174.0	3.0	20.0	Horz	AV	0.0	50.7	54.0	-3.3	EUT on Side, Ch 11, 6 Mbps, P: 48
2389.900	33.8	-3.3	1.0	27.0	3.0	20.0	Horz	AV	0.0	50.5	54.0	-3.5	EUT Horizontal, Ch 1, 11 Mbps, P: 72
2483.500	33.4	-3.0	1.0	27.0	3.0	20.0	Horz	AV	0.0	50.4	54.0	-3.6	EUT Horizontal, Ch 11, 1 Mbps, P: 72
2483.542	33.1	-3.0	1.0	232.0	3.0	20.0	Vert	AV	0.0	50.1	54.0	-3.9	EUT Vertical, Ch 11, 6 Mbps, P: 48
2483.500	33.1	-3.0	1.0	27.0	3.0	20.0	Horz	AV	0.0	50.1	54.0	-3.9	EUT Horizontal, Ch 11, 11 Mbps, P: 72
2483.583	32.8	-3.0	1.5	255.0	3.0	20.0	Vert	AV	0.0	49.8	54.0	-4.2	EUT on Side, Ch 11, 6 Mbps, P: 48
2389.958	51.7	-3.3	1.0	27.0	3.0	20.0	Horz	PK	0.0	68.4	74.0	-5.6	EUT Horizontal, Ch 1, 6 Mbps, P: 51
2484.650	31.2	-3.0	1.0	212.0	3.0	20.0	Vert	AV	0.0	48.2	54.0	-5.8	EUT Horizontal, Ch 11, MCS7, P: 47
2484.125	31.1	-3.0	1.0	99.0	3.0	20.0	Horz	AV	0.0	48.1	54.0	-5.9	EUT Vertical, Ch 11, 1 Mbps, P: 48
2389.900	51.2	-3.3	1.0	27.0	3.0	20.0	Horz	PK	0.0	67.9	74.0	-6.1	EUT Horizontal, Ch 1, MCS0, P: 47
2389.833	50.5	-3.3	1.0	27.0	3.0	20.0	Horz	PK	0.0	67.2	74.0	-6.8	EUT Horizontal, Ch 1, 36 Mbps, P: 51
2389.850	50.5	-3.3	1.0	27.0	3.0	20.0	Horz	PK	0.0	67.2	74.0	-6.8	EUT Horizontal, Ch 1, MCS7, P: 47
2484.842	49.5	-3.0	1.0	27.0	3.0	20.0	Horz	PK	0.0	66.5	74.0	-7.5	EUT Horizontal, Ch 11, MCS0, P: 47
2389.767	49.4	-3.3	1.0	27.0	3.0	20.0	Horz	PK	0.0	66.1	74.0	-7.9	EUT Horizontal, Ch 1, 54 Mbps, P: 51
2483.775	48.9	-3.0	1.1	29.0	3.0	20.0	Horz	PK	0.0	65.9	74.0	-8.1	EUT Horizontal, Ch 11, 6 Mbps, P: 48
2483.525	48.6	-3.0	1.0	27.0	3.0	20.0	Horz	PK	0.0	65.6	74.0	-8.4	EUT Horizontal, Ch 11, 54 Mbps, P: 51
2483.658	48.1	-3.0	1.0	27.0	3.0	20.0	Horz	PK	0.0	65.1	74.0	-8.9	EUT Horizontal, Ch 11, MCS7, P: 47
4924.083	39.9	4.8	1.0	70.0	3.0	0.0	Horz	AV	0.0	44.7	54.0	-9.3	EUT Vertical, Ch 11, 1 Mbps, P: 72
2483.967	47.6	-3.0	1.0	27.0	3.0	20.0	Horz	PK	0.0	64.6	74.0	-9.4	EUT Horizontal, Ch 11, 36 Mbps, P: 48
2483.633	46.1	-3.0	1.3	174.0	3.0	20.0	Horz	PK	0.0	63.1	74.0	-10.9	EUT on Side, Ch 11, 6 Mbps, P: 48
2483.750	45.7	-3.0	1.0	232.0	3.0	20.0	Vert	PK	0.0	62.7	74.0	-11.3	EUT Vertical, Ch 11, 6 Mbps, P: 48
2385.917	45.5	-3.3	1.0	27.0	3.0	20.0	Horz	PK	0.0	62.2	74.0	-11.8	EUT Horizontal, Ch 1, 1 Mbps, P: 72
2483.642	45.1	-3.0	1.5	255.0	3.0	20.0	Vert	PK	0.0	62.1	74.0	-11.9	EUT on Side, Ch 11, 6 Mbps, P: 48

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
2386.550	45.1	-3.3	1.0	27.0	3.0	20.0	Horz	PK	0.0	61.8	74.0	-12.2	EUT Horizontal, Ch 1, 11 Mbps, P: 72
7384.217	29.0	12.6	1.0	302.0	3.0	0.0	Horz	AV	0.0	41.6	54.0	-12.4	EUT Vertical, Ch 11, 1 Mbps, PL 72
2485.708	44.5	-3.0	1.0	27.0	3.0	20.0	Horz	PK	0.0	61.5	74.0	-12.5	EUT Horizontal, Ch 11, 1 Mbps, P: 72
7384.025	28.9	12.6	2.7	175.0	3.0	0.0	Vert	AV	0.0	41.5	54.0	-12.5	EUT Horizontal, Ch 11, 1 Mbps, PL 72
7310.800	29.2	12.1	1.0	348.0	3.0	0.0	Vert	AV	0.0	41.3	54.0	-12.7	EUT Horizontal, Ch 6, 1 Mbps, PL 72
7309.258	29.2	12.1	1.0	188.0	3.0	0.0	Horz	AV	0.0	41.3	54.0	-12.7	EUT Vertical, Ch 6, 1 Mbps, PL 72
2483.675	44.2	-3.0	1.0	27.0	3.0	20.0	Horz	PK	0.0	61.2	74.0	-12.8	EUT Horizontal, Ch 11, 11 Mbps, P: 72
4924.033	36.1	4.8	1.0	124.0	3.0	0.0	Vert	AV	0.0	40.9	54.0	-13.1	EUT Horizontal, Ch 11, 1 Mbps, PL 72
4924.025	35.9	4.8	1.0	58.0	3.0	0.0	Horz	AV	0.0	40.7	54.0	-13.3	EUT Vertical, Ch 11, 11 Mbps, PL 72
4874.058	35.5	5.0	1.0	74.0	3.0	0.0	Horz	AV	0.0	40.5	54.0	-13.5	EUT Vertical, Ch 6, 1 Mbps, PL 72
4923.967	35.5	4.8	1.0	270.0	3.0	0.0	Horz	AV	0.0	40.3	54.0	-13.7	EUT on Side, Ch 11, 1 Mbps, PL 72
2485.458	42.9	-3.0	1.0	99.0	3.0	20.0	Horz	PK	0.0	59.9	74.0	-14.1	EUT Vertical, Ch 11, 6 Mbps, P: 48
2487.250	42.8	-3.0	1.0	212.0	3.0	20.0	Vert	PK	0.0	59.8	74.0	-14.2	EUT Horizontal, Ch 11, 6 Mbps, P: 48
4874.033	34.6	5.0	1.3	147.0	3.0	0.0	Vert	AV	0.0	39.6	54.0	-14.4	EUT Horizontal, Ch 6, 1 Mbps, PL 72
4924.000	33.7	4.8	1.0	208.0	3.0	0.0	Horz	AV	0.0	38.5	54.0	-15.5	EUT Horizontal, Ch 11, 1 Mbps, PL 72
4923.917	32.6	4.8	1.0	73.0	3.0	0.0	Vert	AV	0.0	37.4	54.0	-16.6	EUT on Side, Ch 11, 1 Mbps, PL 72
4923.875	32.4	4.8	1.2	230.0	3.0	0.0	Vert	AV	0.0	37.2	54.0	-16.8	EUT Vertical, Ch 11, 1 Mbps, PL 72
4925.408	31.0	4.8	1.0	58.0	3.0	0.0	Horz	AV	0.0	35.8	54.0	-18.2	EUT Vertical, Ch 11, 54 Mbps, PL 51
4924.050	30.8	4.8	1.0	58.0	3.0	0.0	Horz	AV	0.0	35.6	54.0	-18.4	EUT Vertical, Ch 6, 1 Mbps, PL 48
4924.042	30.7	4.8	1.0	58.0	3.0	0.0	Horz	AV	0.0	35.5	54.0	-18.5	EUT Vertical, Ch 11, 36 Mbps, PL 48
4924.050	30.7	4.8	1.0	58.0	3.0	0.0	Horz	AV	0.0	35.5	54.0	-18.5	EUT Vertical, Ch 11, MCS0, PL 47
4922.850	30.5	4.8	1.0	58.0	3.0	0.0	Horz	AV	0.0	35.3	54.0	-18.7	EUT Vertical, Ch 11, MCS7, PL 47
4824.058	29.8	5.3	1.0	166.0	3.0	0.0	Horz	AV	0.0	35.1	54.0	-18.9	EUT Vertical, Ch 1, 1 Mbps, PL 72
14472.030	31.5	3.5	1.0	232.0	3.0	0.0	Horz	AV	0.0	35.0	54.0	-19.0	EUT Vertical, Ch 1, 1 Mbps, PL 72
14474.460	31.5	3.5	3.5	60.0	3.0	0.0	Vert	AV	0.0	35.0	54.0	-19.0	EUT Horizontal, Ch 1, 1 Mbps, PL 72
4821.625	29.7	5.3	3.4	0.0	3.0	0.0	Vert	AV	0.0	35.0	54.0	-19.0	EUT Horizontal, Ch 1, 1 Mbps, PL 72
7385.258	40.6	12.6	2.7	175.0	3.0	0.0	Vert	PK	0.0	53.2	74.0	-20.8	EUT Horizontal, Ch 11, 1 Mbps, PL 72
7308.850	41.0	12.1	1.0	348.0	3.0	0.0	Vert	PK	0.0	53.1	74.0	-20.9	EUT Horizontal, Ch 6, 1 Mbps, PL 72
7385.658	40.1	12.6	1.0	302.0	3.0	0.0	Horz	PK	0.0	52.7	74.0	-21.3	EUT Vertical, Ch 11, 1 Mbps, PL 72
7312.217	40.5	12.1	1.0	188.0	3.0	0.0	Horz	PK	0.0	52.6	74.0	-21.4	EUT Vertical, Ch 6, 1 Mbps, PL 72
4923.983	45.7	4.8	1.0	70.0	3.0	0.0	Horz	PK	0.0	50.5	74.0	-23.5	EUT Vertical, Ch 11, 1 Mbps, PL 72
4924.008	45.5	4.8	1.0	58.0	3.0	0.0	Horz	PK	0.0	50.3	74.0	-23.7	EUT Vertical, Ch 11, 11 Mbps, PL 72
12186.290	34.1	-5.0	1.0	68.0	3.0	0.0	Vert	AV	0.0	29.1	54.0	-24.9	EUT Horizontal, Ch 6, 1 Mbps, PL 72
12187.230	34.1	-5.0	3.6	260.0	3.0	0.0	Horz	AV	0.0	29.1	54.0	-24.9	EUT Vertical, Ch 6, 1 Mbps, PL 72
12061.280	34.0	-5.2	1.0	10.0	3.0	0.0	Vert	AV	0.0	28.8	54.0	-25.2	EUT Horizontal, Ch 1, 1 Mbps, PL 72
12059.890	34.0	-5.2	1.0	102.0	3.0	0.0	Horz	AV	0.0	28.8	54.0	-25.2	EUT Vertical, Ch 1, 1 Mbps, PL 72
12312.340	33.7	-4.9	1.0	227.0	3.0	0.0	Horz	AV	0.0	28.8	54.0	-25.2	EUT Vertical, Ch 11, 1 Mbps, PL 72
12312.280	33.7	-4.9	3.8	218.0	3.0	0.0	Vert	AV	0.0	28.8	54.0	-25.2	EUT Horizontal, Ch 11, 1 Mbps, PL 72
4874.217	43.6	5.0	1.0	74.0	3.0	0.0	Horz	PK	0.0	48.6	74.0	-25.4	EUT Vertical, Ch 6, 1 Mbps, PL 72
4924.325	43.7	4.8	1.0	124.0	3.0	0.0	Vert	PK	0.0	48.5	74.0	-25.5	EUT Horizontal, Ch 11, 1 Mbps, PL 72
4923.842	43.5	4.8	1.0	208.0	3.0	0.0	Horz	PK	0.0	48.3	74.0	-25.7	EUT Horizontal, Ch 11, 1 Mbps, PL 72
4874.333	43.3	5.0	1.3	147.0	3.0	0.0	Vert	PK	0.0	48.3	74.0	-25.7	EUT Horizontal, Ch 6, 1 Mbps, PL 72
4924.275	43.4	4.8	1.0	270.0	3.0	0.0	Horz	PK	0.0	48.2	74.0	-25.8	EUT on Side, Ch 11, 1 Mbps, PL 72
4926.125	42.8	4.8	1.0	58.0	3.0	0.0	Horz	PK	0.0	47.6	74.0	-26.4	EUT Vertical, Ch 11, 36 Mbps, PL 48
4822.725	42.3	5.3	1.0	166.0	3.0	0.0	Horz	PK	0.0	47.6	74.0	-26.4	EUT Vertical, Ch 1, 1 Mbps, PL 72
4924.433	42.7	4.8	1.2	230.0	3.0	0.0	Vert	PK	0.0	47.5	74.0	-26.5	EUT Vertical, Ch 11, 1 Mbps, PL 72
4921.725	42.5	4.8	1.0	58.0	3.0	0.0	Horz	PK	0.0	47.3	74.0	-26.7	EUT Vertical, Ch 11, 54 Mbps, PL 51
4925.225	42.2	4.8	1.0	58.0	3.0	0.0	Horz	PK	0.0	47.0	74.0	-27.0	EUT Vertical, Ch 11, MCS0, PL 47
4925.908	42.2	4.8	1.0	58.0	3.0	0.0	Horz	PK	0.0	47.0	74.0	-27.0	EUT Vertical, Ch 11, 6 Mbps, PL 48
4926.233	42.1	4.8	1.0	58.0	3.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1	EUT Vertical, Ch 11, MCS7, PL 47
4923.942	41.9	4.8	1.0	73.0	3.0	0.0	Vert	PK	0.0	46.7	74.0	-27.3	EUT on Side, Ch 11, 1 Mbps, PL 72
14472.780	43.1	3.5	1.0	232.0	3.0	0.0	Horz	PK	0.0	46.6	74.0	-27.4	EUT Vertical, Ch 1, 1 Mbps, PL 72
4822.592	41.1	5.3	3.4	0.0	3.0	0.0	Vert	PK	0.0	46.4	74.0	-27.6	EUT Horizontal, Ch 1, 1 Mbps, PL 72
14472.180	42.6	3.5	3.5	60.0	3.0	0.0	Vert	PK	0.0	46.1	74.0	-27.9	EUT Horizontal, Ch 1, 1 Mbps, PL 72
12187.000	45.5	-5.0	1.0	68.0	3.0	0.0	Vert	PK	0.0	40.5	74.0	-33.5	EUT Horizontal, Ch 6, 1 Mbps, PL 72
12061.630	45.4	-5.2	1.0	10.0	3.0	0.0	Vert	PK	0.0	40.2	74.0	-33.8	EUT Horizontal, Ch 1, 1 Mbps, PL 72
12185.730	45.1	-5.0	3.6	260.0	3.0	0.0	Horz	PK	0.0	40.1	74.0	-33.9	EUT Vertical, Ch 6, 1 Mbps, PL 72
12311.130	45.0	-4.9	3.8	218.0	3.0	0.0	Vert	PK	0.0	40.1	74.0	-33.9	EUT Horizontal, Ch 11, 1 Mbps, PL 72
12307.740	44.8	-5.0	1.0	227.0	3.0	0.0	Horz	PK	0.0	39.8	74.0	-34.2	EUT Vertical, Ch 11, 1 Mbps, PL 72
12059.260	44.8	-5.2	1.0	102.0	3.0	0.0	Horz	PK	0.0	39.6	74.0	-34.4	EUT Vertical, Ch 1, 1 Mbps, PL 72

TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50 Ω measuring port is terminated by a 50 Ω EMI meter or a 50 Ω resistive load. All 50 Ω measuring ports of the LISN are terminated by 50 Ω .

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARG	04/01/2013	12 mo
LISN	Solar Electronics	9252-50-R-24-BNC	LIY	05/24/2013	12 mo
MN03 Cables	ESM Cable Corp.	Conducted Cables	MNC	12/05/2013	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HGN	05/31/2012	24 mo
Attenuator 20dB, BNC	Fairview Microwave	SA01B-20	AQP	08/09/2013	12 mo

MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	2.94 dB	-2.94 dB

CONFIGURATIONS INVESTIGATED

HNYW0061-1

MODES INVESTIGATED

Transmitting 1 Mbps on Channel 1, 2412 MHz
 Transmitting 1 Mbps on Channel 6, 2437 MHz
 Transmitting 1 Mbps on Channel 11, 2462 MHz

POWERLINE CONDUCTED EMISSIONS

EUT:	TH8732WF	Work Order:	HNYW0061
Serial Number:	82302010004286	Date:	03/28/2014
Customer:	Honeywell International, Inc.	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	18.3%
Customer Project:	None	Bar. Pressure:	1022.7 mb
Tested By:	Trevor Buls, Dustin Sparks	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	HNYW0061-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2014	ANSI C63.10:2009

TEST PARAMETERS

Run #:	4	Line:	Neutral	Ext. Attenuation (dB):	20
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COMMENTS

None

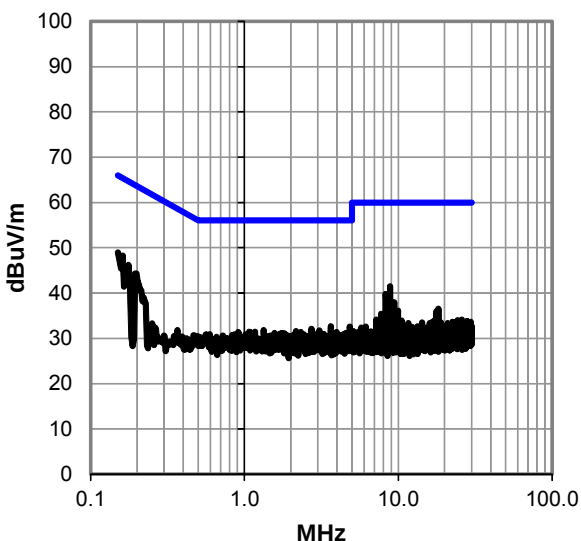
EUT OPERATING MODES

Transmitting 1 Mbps on Channel 1, 2412 MHz

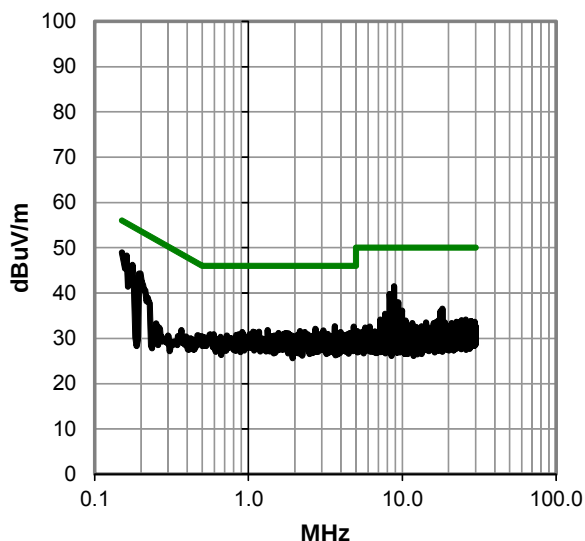
DEVIATIONS FROM TEST STANDARD

None

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #4

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)
0.150	28.8	20.2	49.0	66.0	-17.0
0.176	26.0	20.2	46.2	64.7	-18.5
8.846	20.8	20.7	41.5	60.0	-18.5
0.195	24.1	20.2	44.3	63.8	-19.5
0.169	25.2	20.2	45.4	65.0	-19.6
8.291	19.2	20.6	39.8	60.0	-20.2
9.399	17.3	20.7	38.0	60.0	-22.0
3.642	12.3	20.4	32.7	56.0	-23.3
4.843	12.2	20.4	32.6	56.0	-23.4
18.244	15.3	21.3	36.6	60.0	-23.4
2.724	11.8	20.3	32.1	56.0	-23.9
9.951	15.4	20.7	36.1	60.0	-23.9
17.688	14.8	21.2	36.0	60.0	-24.0
1.333	11.5	20.3	31.8	56.0	-24.2
3.071	11.4	20.3	31.7	56.0	-24.3
2.161	11.3	20.3	31.6	56.0	-24.4
1.072	11.2	20.3	31.5	56.0	-24.5
1.169	11.2	20.3	31.5	56.0	-24.5
7.738	14.9	20.6	35.5	60.0	-24.5
2.325	11.1	20.3	31.4	56.0	-24.6
0.911	11.1	20.3	31.4	56.0	-24.6
3.978	11.0	20.4	31.4	56.0	-24.6
1.101	11.0	20.3	31.3	56.0	-24.7
1.568	10.9	20.3	31.2	56.0	-24.8
1.739	10.9	20.3	31.2	56.0	-24.8
4.899	10.8	20.4	31.2	56.0	-24.8

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)
0.150	28.8	20.2	49.0	56.0	-7.0
0.176	26.0	20.2	46.2	54.7	-8.5
8.846	20.8	20.7	41.5	50.0	-8.5
0.195	24.1	20.2	44.3	53.8	-9.5
0.169	25.2	20.2	45.4	55.0	-9.6
8.291	19.2	20.6	39.8	50.0	-10.2
9.399	17.3	20.7	38.0	50.0	-12.0
3.642	12.3	20.4	32.7	46.0	-13.3
4.843	12.2	20.4	32.6	46.0	-13.4
18.244	15.3	21.3	36.6	50.0	-13.4
2.724	11.8	20.3	32.1	46.0	-13.9
9.951	15.4	20.7	36.1	50.0	-13.9
17.688	14.8	21.2	36.0	50.0	-14.0
1.333	11.5	20.3	31.8	46.0	-14.2
3.071	11.4	20.3	31.7	46.0	-14.3
2.161	11.3	20.3	31.6	46.0	-14.4
1.072	11.2	20.3	31.5	46.0	-14.5
1.169	11.2	20.3	31.5	46.0	-14.5
7.738	14.9	20.6	35.5	50.0	-14.5
2.325	11.1	20.3	31.4	46.0	-14.6
0.911	11.1	20.3	31.4	46.0	-14.6
3.978	11.0	20.4	31.4	46.0	-14.6
1.101	11.0	20.3	31.3	46.0	-14.7
1.568	10.9	20.3	31.2	46.0	-14.8
1.739	10.9	20.3	31.2	46.0	-14.8
4.899	10.8	20.4	31.2	46.0	-14.8

CONCLUSION

Pass

Trevor Buls
Tested By

POWERLINE CONDUCTED EMISSIONS

EUT:	TH8732WF	Work Order:	HNYW0061
Serial Number:	82302010004286	Date:	03/28/2014
Customer:	Honeywell International, Inc.	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	18.3%
Customer Project:	None	Bar. Pressure:	1022.7 mb
Tested By:	Trevor Buls, Dustin Sparks	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	HNYW0061-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2014	ANSI C63.10:2009

TEST PARAMETERS

Run #:	5	Line:	High Line	Ext. Attenuation (dB):	20
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COMMENTS

None

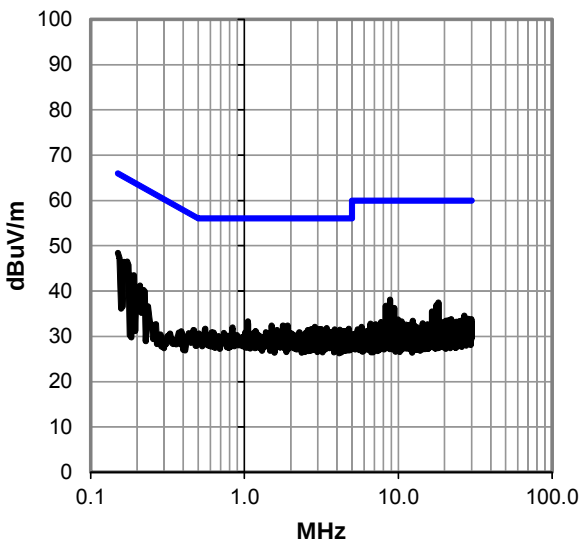
EUT OPERATING MODES

Transmitting 1 Mbps on Channel 1, 2412 MHz

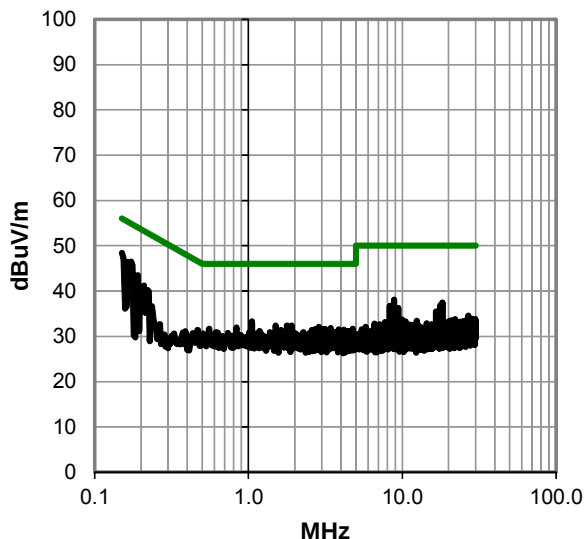
DEVIATIONS FROM TEST STANDARD

None

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #5

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)
0.150	28.2	20.2	48.4	66.0	-17.6
0.172	26.3	20.2	46.5	64.8	-18.3
0.191	23.3	20.2	43.5	64.0	-20.5
8.846	17.4	20.7	38.1	60.0	-21.9
0.210	21.0	20.2	41.2	63.2	-22.0
18.244	16.2	21.3	37.5	60.0	-22.5
0.221	20.0	20.2	40.2	62.8	-22.6
1.053	13.0	20.3	33.3	56.0	-22.7
17.688	15.7	21.2	36.9	60.0	-23.1
8.294	16.2	20.6	36.8	60.0	-23.2
1.504	12.1	20.3	32.4	56.0	-23.6
1.777	12.1	20.3	32.4	56.0	-23.6
1.911	12.1	20.3	32.4	56.0	-23.6
9.399	15.6	20.7	36.3	60.0	-23.7
2.866	11.8	20.3	32.1	56.0	-23.9
0.836	11.7	20.3	32.0	56.0	-24.0
3.418	11.5	20.3	31.8	56.0	-24.2
0.557	11.5	20.2	31.7	56.0	-24.3
4.758	11.3	20.4	31.7	56.0	-24.3
3.150	11.3	20.3	31.6	56.0	-24.4
3.019	11.3	20.3	31.6	56.0	-24.4
2.728	11.3	20.3	31.6	56.0	-24.4
3.855	11.2	20.4	31.6	56.0	-24.4
16.584	14.4	21.1	35.5	60.0	-24.5
4.161	11.1	20.4	31.5	56.0	-24.5
2.586	11.1	20.3	31.4	56.0	-24.6

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)
0.150	28.2	20.2	48.4	56.0	-7.6
0.172	26.3	20.2	46.5	54.8	-8.3
0.191	23.3	20.2	43.5	54.0	-10.5
8.846	17.4	20.7	38.1	50.0	-11.9
0.210	21.0	20.2	41.2	53.2	-12.0
18.244	16.2	21.3	37.5	50.0	-12.5
0.221	20.0	20.2	40.2	52.8	-12.6
1.053	13.0	20.3	33.3	46.0	-12.7
17.688	15.7	21.2	36.9	50.0	-13.1
8.294	16.2	20.6	36.8	50.0	-13.2
1.504	12.1	20.3	32.4	46.0	-13.6
1.777	12.1	20.3	32.4	46.0	-13.6
1.911	12.1	20.3	32.4	46.0	-13.6
9.399	15.6	20.7	36.3	50.0	-13.7
2.866	11.8	20.3	32.1	46.0	-13.9
0.836	11.7	20.3	32.0	46.0	-14.0
3.418	11.5	20.3	31.8	46.0	-14.2
0.557	11.5	20.2	31.7	46.0	-14.3
4.758	11.3	20.4	31.7	46.0	-14.3
3.150	11.3	20.3	31.6	46.0	-14.4
3.019	11.3	20.3	31.6	46.0	-14.4
2.728	11.3	20.3	31.6	46.0	-14.4
3.855	11.2	20.4	31.6	46.0	-14.4
16.584	14.4	21.1	35.5	50.0	-14.5
4.161	11.1	20.4	31.5	46.0	-14.5
2.586	11.1	20.3	31.4	46.0	-14.6

CONCLUSION

Pass

Trevor Buls
Tested By

POWERLINE CONDUCTED EMISSIONS

EUT:	TH8732WF	Work Order:	HNYW0061
Serial Number:	82302010004286	Date:	03/28/2014
Customer:	Honeywell International, Inc.	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	18.3%
Customer Project:	None	Bar. Pressure:	1022.7 mb
Tested By:	Trevor Buls, Dustin Sparks	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	HNYW0061-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2014	ANSI C63.10:2009

TEST PARAMETERS

Run #:	6	Line:	High Line	Ext. Attenuation (dB):	20
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COMMENTS

None

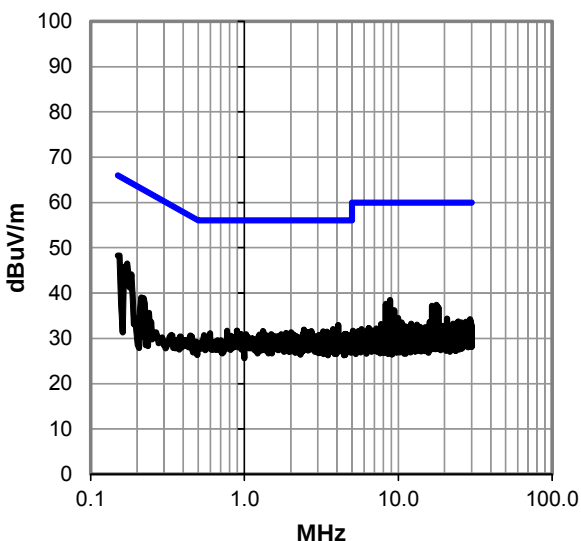
EUT OPERATING MODES

Transmitting 1 Mbps on Channel 6, 2437 MHz

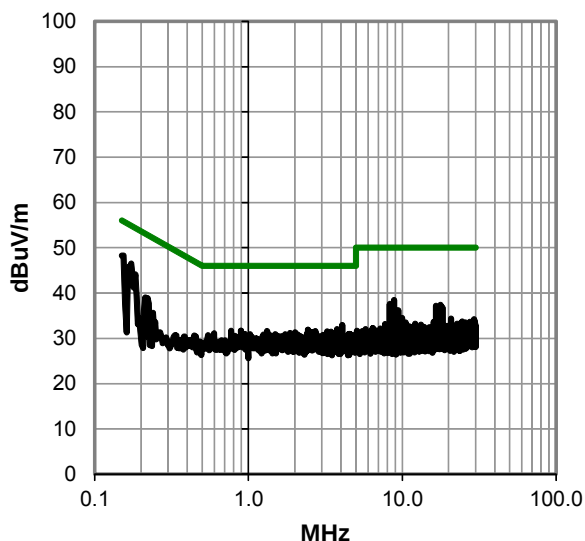
DEVIATIONS FROM TEST STANDARD

None

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #6

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)
0.150	28.1	20.2	48.3	66.0	-17.7
0.172	26.3	20.2	46.5	64.8	-18.3
8.846	17.8	20.7	38.5	60.0	-21.5
8.294	17.0	20.6	37.6	60.0	-22.4
17.696	16.2	21.2	37.4	60.0	-22.6
16.592	16.1	21.1	37.2	60.0	-22.8
4.064	12.6	20.4	33.0	56.0	-23.0
18.255	15.6	21.3	36.9	60.0	-23.1
17.140	15.4	21.2	36.6	60.0	-23.4
9.406	15.5	20.7	36.2	60.0	-23.8
0.221	18.7	20.2	38.9	62.8	-23.9
3.765	11.7	20.4	32.1	56.0	-23.9
0.213	18.8	20.2	39.0	63.1	-24.1
2.441	11.6	20.3	31.9	56.0	-24.1
3.892	11.4	20.4	31.8	56.0	-24.2
0.896	11.4	20.3	31.7	56.0	-24.3
0.769	11.4	20.3	31.7	56.0	-24.3
2.724	11.3	20.3	31.6	56.0	-24.4
1.321	11.3	20.3	31.6	56.0	-24.4
3.250	11.2	20.3	31.5	56.0	-24.5
3.448	11.1	20.3	31.4	56.0	-24.6
2.575	11.0	20.3	31.3	56.0	-24.7
2.008	11.0	20.3	31.3	56.0	-24.7
3.676	10.9	20.4	31.3	56.0	-24.7
1.866	10.9	20.3	31.2	56.0	-24.8
0.598	10.9	20.2	31.1	56.0	-24.9

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)
0.150	28.1	20.2	48.3	56.0	-7.7
0.172	26.3	20.2	46.5	54.8	-8.3
8.846	17.8	20.7	38.5	50.0	-11.5
8.294	17.0	20.6	37.6	50.0	-12.4
17.696	16.2	21.2	37.4	50.0	-12.6
16.592	16.1	21.1	37.2	50.0	-12.8
4.064	12.6	20.4	33.0	46.0	-13.0
18.255	15.6	21.3	36.9	50.0	-13.1
17.140	15.4	21.2	36.6	50.0	-13.4
9.406	15.5	20.7	36.2	50.0	-13.8
0.221	18.7	20.2	38.9	52.8	-13.9
3.765	11.7	20.4	32.1	46.0	-13.9
0.213	18.8	20.2	39.0	53.1	-14.1
2.441	11.6	20.3	31.9	46.0	-14.1
3.892	11.4	20.4	31.8	46.0	-14.2
0.896	11.4	20.3	31.7	46.0	-14.3
0.769	11.4	20.3	31.7	46.0	-14.3
2.724	11.3	20.3	31.6	46.0	-14.4
1.321	11.3	20.3	31.6	46.0	-14.4
3.250	11.2	20.3	31.5	46.0	-14.5
3.448	11.1	20.3	31.4	46.0	-14.6
2.575	11.0	20.3	31.3	46.0	-14.7
2.008	11.0	20.3	31.3	46.0	-14.7
3.676	10.9	20.4	31.3	46.0	-14.7
1.866	10.9	20.3	31.2	46.0	-14.8
0.598	10.9	20.2	31.1	46.0	-14.9

CONCLUSION

Pass

Trevor Buls
Tested By

POWERLINE CONDUCTED EMISSIONS

EUT:	TH8732WF	Work Order:	HNYW0061
Serial Number:	82302010004286	Date:	03/28/2014
Customer:	Honeywell International, Inc.	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	18.3%
Customer Project:	None	Bar. Pressure:	1022.7 mb
Tested By:	Trevor Buls, Dustin Sparks	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	HNYW0061-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2014	ANSI C63.10:2009

TEST PARAMETERS

Run #:	7	Line:	Neutral	Ext. Attenuation (dB):	20
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COMMENTS

None

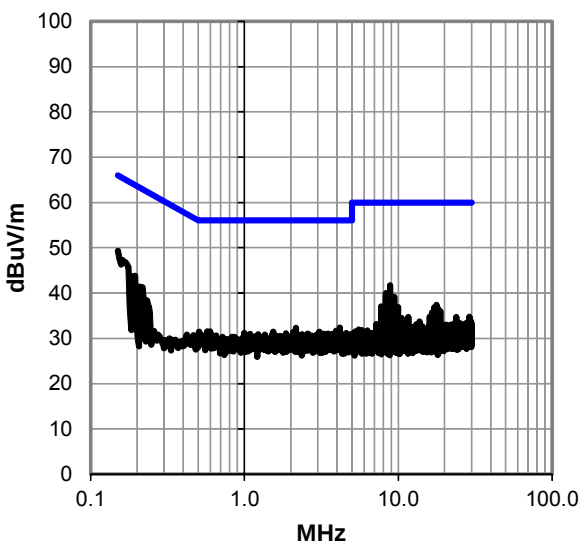
EUT OPERATING MODES

Transmitting 1 Mbps on Channel 6, 2437 MHz

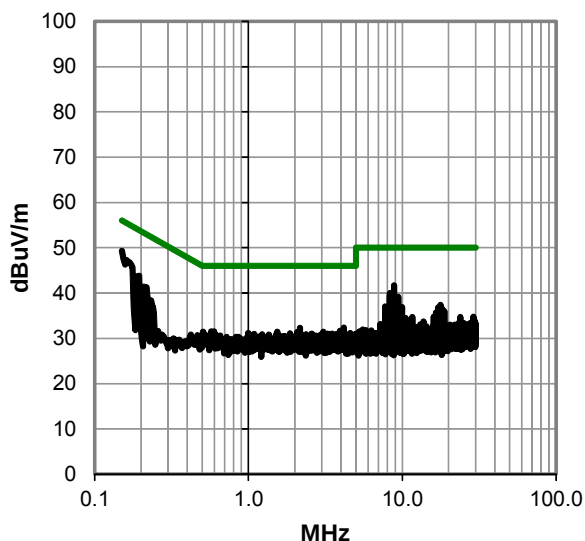
DEVIATIONS FROM TEST STANDARD

None

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #7

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)
0.150	29.1	20.2	49.3	66.0	-16.7
8.846	21.0	20.7	41.7	60.0	-18.3
8.294	19.4	20.6	40.0	60.0	-20.0
0.195	23.6	20.2	43.8	63.8	-20.0
9.402	18.5	20.7	39.2	60.0	-20.8
0.210	21.2	20.2	41.4	63.2	-21.8
17.700	16.2	21.2	37.4	60.0	-22.6
7.742	16.5	20.6	37.1	60.0	-22.9
9.954	16.2	20.7	36.9	60.0	-23.1
17.144	15.7	21.2	36.9	60.0	-23.1
18.248	15.2	21.3	36.5	60.0	-23.5
4.168	12.0	20.4	32.4	56.0	-23.6
2.157	12.0	20.3	32.3	56.0	-23.7
0.232	18.2	20.2	38.4	62.4	-24.0
18.804	14.7	21.3	36.0	60.0	-24.0
16.595	14.6	21.1	35.7	60.0	-24.3
3.937	11.3	20.4	31.7	56.0	-24.3
0.598	11.3	20.2	31.5	56.0	-24.5
0.572	11.3	20.2	31.5	56.0	-24.5
0.508	11.3	20.2	31.5	56.0	-24.5
1.538	11.2	20.3	31.5	56.0	-24.5
3.060	11.1	20.3	31.4	56.0	-24.6
2.075	11.1	20.3	31.4	56.0	-24.6
0.997	10.9	20.3	31.2	56.0	-24.8
4.582	10.8	20.4	31.2	56.0	-24.8
4.004	10.8	20.4	31.2	56.0	-24.8

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)
0.150	29.1	20.2	49.3	56.0	-6.7
8.846	21.0	20.7	41.7	50.0	-8.3
8.294	19.4	20.6	40.0	50.0	-10.0
0.195	23.6	20.2	43.8	53.8	-10.0
9.402	18.5	20.7	39.2	50.0	-10.8
0.210	21.2	20.2	41.4	53.2	-11.8
17.700	16.2	21.2	37.4	50.0	-12.6
7.742	16.5	20.6	37.1	50.0	-12.9
9.954	16.2	20.7	36.9	50.0	-13.1
17.144	15.7	21.2	36.9	50.0	-13.1
18.248	15.2	21.3	36.5	50.0	-13.5
4.168	12.0	20.4	32.4	46.0	-13.6
2.157	12.0	20.3	32.3	46.0	-13.7
0.232	18.2	20.2	38.4	52.4	-14.0
18.804	14.7	21.3	36.0	50.0	-14.0
16.595	14.6	21.1	35.7	50.0	-14.3
3.937	11.3	20.4	31.7	46.0	-14.3
0.598	11.3	20.2	31.5	46.0	-14.5
0.572	11.3	20.2	31.5	46.0	-14.5
0.508	11.3	20.2	31.5	46.0	-14.5
1.538	11.2	20.3	31.5	46.0	-14.5
3.060	11.1	20.3	31.4	46.0	-14.6
2.075	11.1	20.3	31.4	46.0	-14.6
0.997	10.9	20.3	31.2	46.0	-14.8
4.582	10.8	20.4	31.2	46.0	-14.8
4.004	10.8	20.4	31.2	46.0	-14.8

CONCLUSION

Pass

Trevor Buls
Tested By

POWERLINE CONDUCTED EMISSIONS

EUT:	TH8732WF	Work Order:	HNYW0061
Serial Number:	82302010004286	Date:	03/28/2014
Customer:	Honeywell International, Inc.	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	18.3%
Customer Project:	None	Bar. Pressure:	1022.7 mb
Tested By:	Trevor Buls, Dustin Sparks	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	HNYW0061-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2014	ANSI C63.10:2009

TEST PARAMETERS

Run #:	8	Line:	Neutral	Ext. Attenuation (dB):	20
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COMMENTS

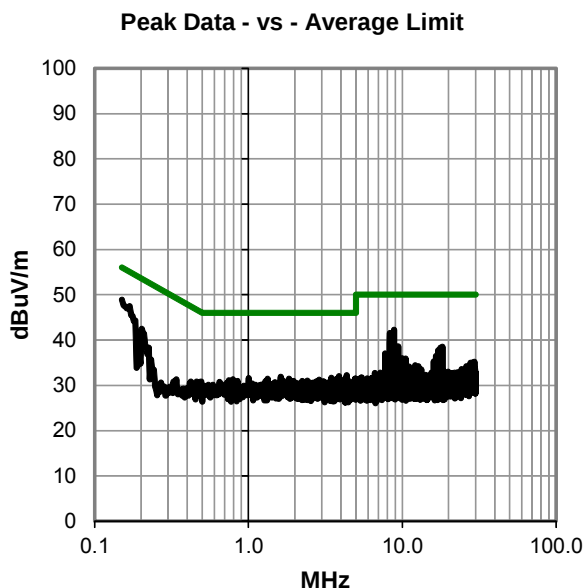
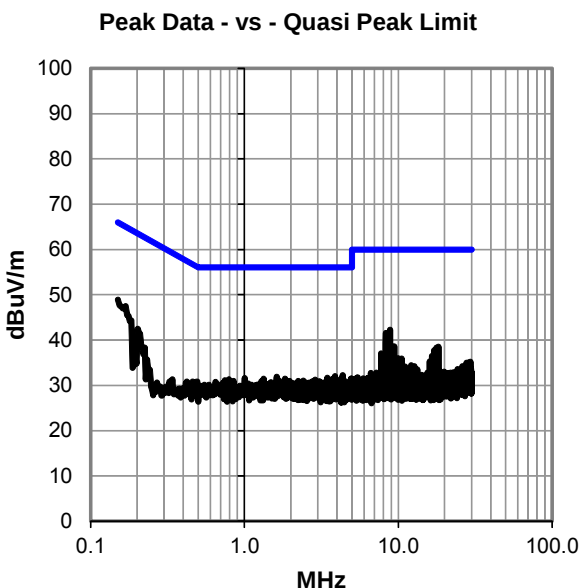
None

EUT OPERATING MODES

Transmitting 1 Mbps on Channel 11, 2462 MHz

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #8

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)
0.150	28.7	20.2	48.9	66.0	-17.1
8.850	21.6	20.7	42.3	60.0	-17.7
8.294	21.0	20.6	41.6	60.0	-18.4
0.202	22.3	20.2	42.5	63.5	-21.0
9.402	17.9	20.7	38.6	60.0	-21.4
18.248	17.3	21.3	38.6	60.0	-21.4
17.700	17.1	21.2	38.3	60.0	-21.7
17.147	16.6	21.2	37.8	60.0	-22.2
7.742	16.5	20.6	37.1	60.0	-22.9
16.595	15.4	21.1	36.5	60.0	-23.5
4.358	11.9	20.4	32.3	56.0	-23.7
3.881	11.7	20.4	32.1	56.0	-23.9
9.954	15.3	20.7	36.0	60.0	-24.0
10.510	15.2	20.7	35.9	60.0	-24.1
1.620	11.6	20.3	31.9	56.0	-24.1
3.459	11.3	20.3	31.6	56.0	-24.4
1.004	11.3	20.3	31.6	56.0	-24.4
1.333	11.2	20.3	31.5	56.0	-24.5
1.833	11.2	20.3	31.5	56.0	-24.5
4.996	11.1	20.4	31.5	56.0	-24.5
4.959	11.1	20.4	31.5	56.0	-24.5
4.918	11.1	20.4	31.5	56.0	-24.5
4.284	11.1	20.4	31.5	56.0	-24.5
3.746	11.1	20.4	31.5	56.0	-24.5
3.899	11.0	20.4	31.4	56.0	-24.6
0.792	11.1	20.3	31.4	56.0	-24.6

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)
0.150	28.7	20.2	48.9	56.0	-7.1
8.850	21.6	20.7	42.3	50.0	-7.7
8.294	21.0	20.6	41.6	50.0	-8.4
0.202	22.3	20.2	42.5	53.5	-11.0
9.402	17.9	20.7	38.6	50.0	-11.4
18.248	17.3	21.3	38.6	50.0	-11.4
17.700	17.1	21.2	38.3	50.0	-11.7
17.147	16.6	21.2	37.8	50.0	-12.2
7.742	16.5	20.6	37.1	50.0	-12.9
16.595	15.4	21.1	36.5	50.0	-13.5
4.358	11.9	20.4	32.3	46.0	-13.7
3.881	11.7	20.4	32.1	46.0	-13.9
9.954	15.3	20.7	36.0	50.0	-14.0
10.510	15.2	20.7	35.9	50.0	-14.1
1.620	11.6	20.3	31.9	46.0	-14.1
3.459	11.3	20.3	31.6	46.0	-14.4
1.004	11.3	20.3	31.6	46.0	-14.4
1.333	11.2	20.3	31.5	46.0	-14.5
1.833	11.2	20.3	31.5	46.0	-14.5
4.996	11.1	20.4	31.5	46.0	-14.5
4.959	11.1	20.4	31.5	46.0	-14.5
4.918	11.1	20.4	31.5	46.0	-14.5
4.284	11.1	20.4	31.5	46.0	-14.5
3.746	11.1	20.4	31.5	46.0	-14.5
3.899	11.0	20.4	31.4	46.0	-14.6
0.792	11.1	20.3	31.4	46.0	-14.6

CONCLUSION

Pass

Trevor Buls
Tested By

POWERLINE CONDUCTED EMISSIONS

EUT:	TH8732WF	Work Order:	HNYW0061
Serial Number:	82302010004286	Date:	03/28/2014
Customer:	Honeywell International, Inc.	Temperature:	23.4°C
Attendees:	None	Relative Humidity:	18.3%
Customer Project:	None	Bar. Pressure:	1022.7 mb
Tested By:	Trevor Buls, Dustin Sparks	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	HNYW0061-1

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2014	ANSI C63.10:2009

TEST PARAMETERS

Run #:	9	Line:	High Line	Ext. Attenuation (dB):	20
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COMMENTS

None

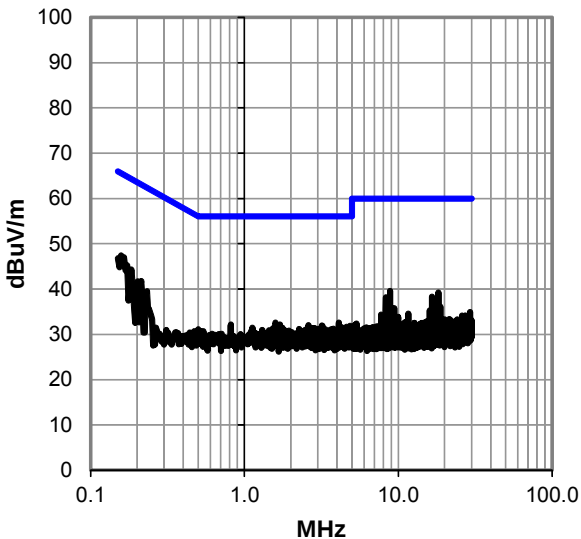
EUT OPERATING MODES

Transmitting 1 Mbps on Channel 11, 2462 MHz

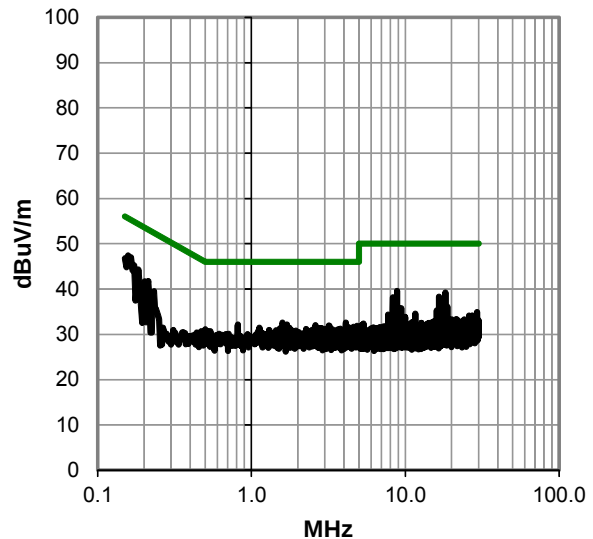
DEVIATIONS FROM TEST STANDARD

None

Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #9

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)
0.157	27.2	20.2	47.4	65.6	-18.2
0.184	24.1	20.2	44.3	64.3	-20.0
8.850	18.9	20.7	39.6	60.0	-20.4
18.252	18.0	21.3	39.3	60.0	-20.7
0.213	21.6	20.2	41.8	63.1	-21.3
16.595	17.2	21.1	38.3	60.0	-21.7
8.298	17.6	20.6	38.2	60.0	-21.8
0.202	21.5	20.2	41.7	63.5	-21.8
17.703	16.5	21.2	37.7	60.0	-22.3
0.232	19.3	20.2	39.5	62.4	-22.9
1.590	12.3	20.3	32.6	56.0	-23.4
4.101	12.2	20.4	32.6	56.0	-23.4
1.698	11.9	20.3	32.2	56.0	-23.8
0.818	11.9	20.3	32.2	56.0	-23.8
17.144	15.0	21.2	36.2	60.0	-23.8
18.804	14.8	21.3	36.1	60.0	-23.9
2.609	11.7	20.3	32.0	56.0	-24.0
3.187	11.6	20.3	31.9	56.0	-24.1
4.869	11.5	20.4	31.9	56.0	-24.1
9.402	15.1	20.7	35.8	60.0	-24.2
4.616	11.3	20.4	31.7	56.0	-24.3
3.168	11.3	20.3	31.6	56.0	-24.4
4.273	11.2	20.4	31.6	56.0	-24.4
1.124	11.2	20.3	31.5	56.0	-24.5
1.560	11.2	20.3	31.5	56.0	-24.5
1.751	11.2	20.3	31.5	56.0	-24.5

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)
0.157	27.2	20.2	47.4	55.6	-8.2
0.184	24.1	20.2	44.3	54.3	-10.0
8.850	18.9	20.7	39.6	50.0	-10.4
18.252	18.0	21.3	39.3	50.0	-10.7
0.213	21.6	20.2	41.8	53.1	-11.3
16.595	17.2	21.1	38.3	50.0	-11.7
8.298	17.6	20.6	38.2	50.0	-11.8
0.202	21.5	20.2	41.7	53.5	-11.8
17.703	16.5	21.2	37.7	50.0	-12.3
0.232	19.3	20.2	39.5	52.4	-12.9
1.590	12.3	20.3	32.6	46.0	-13.4
4.101	12.2	20.4	32.6	46.0	-13.4
1.698	11.9	20.3	32.2	46.0	-13.8
0.818	11.9	20.3	32.2	46.0	-13.8
17.144	15.0	21.2	36.2	50.0	-13.8
18.804	14.8	21.3	36.1	50.0	-13.9
2.609	11.7	20.3	32.0	46.0	-14.0
3.187	11.6	20.3	31.9	46.0	-14.1
4.869	11.5	20.4	31.9	46.0	-14.1
9.402	15.1	20.7	35.8	50.0	-14.2
4.616	11.3	20.4	31.7	46.0	-14.3
3.168	11.3	20.3	31.6	46.0	-14.4
4.273	11.2	20.4	31.6	46.0	-14.4
1.124	11.2	20.3	31.5	46.0	-14.5
1.560	11.2	20.3	31.5	46.0	-14.5
1.751	11.2	20.3	31.5	46.0	-14.5

CONCLUSION

Pass

Trevor Buls
Tested By