



Company: Whirlpool Corporation
Model Tested: WICHAM01
Report Number: 22032
DLS Project: 8095

166 South Carter, Genoa City, WI 53128

Code of Federal Regulations 47 Part 15 – Radio Frequency Devices

Subpart C – Intentional Radiators

Section 15.247

Operation within the bands 902 - 928 MHz,
2400 - 2483.5 MHz, 5725 - 5875 MHz,
and 24.0 - 24.25 GHz.

For a Class II Permissive Change

THE FOLLOWING **MEETS** THE ABOVE TEST SPECIFICATION

Formal Name:	Amber WiFi Module
Kind of Equipment:	802.11b/g/n Wi-Fi appliance module
Frequency Range:	2412-2462 MHz
Test Configuration:	DC powered transceiver module
Model Number(s):	WICHAM01
Model(s) Tested:	WICHAM01
Serial Number(s):	15501X01D01160800025AK01 (with external connector),
Date of Tests:	July 25 th to July 27 th 2016
Test Conducted For:	Whirlpool Corporation 750 Monte Rd Benton Harbor, MI 49022, USA

NOTICE: “This test report relates only to the items tested and must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government”. Please see the "Description of Test Sample" page listed inside of this report.

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WICHAM01
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SIGNATURE PAGE

Tested By:

A handwritten signature in black ink that reads "Craig Brandt". The signature is written in a cursive style with a long horizontal stroke at the end.

Craig Brandt
Senior Test Engineer

Reviewed By:

A handwritten signature in black ink that reads "William Stumpf". The signature is written in a cursive style with a long horizontal stroke at the end.

William Stumpf
OATS Manager

Approved By:

A handwritten signature in black ink that reads "Brian J. Mattson". The signature is written in a cursive style with a long horizontal stroke at the end.

Brian Mattson
General Manager



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United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 100276-0

D.L.S. Electronic Systems, Inc.
Wheeling, IL

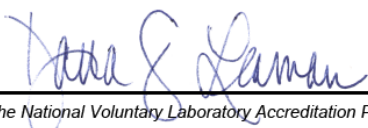
*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Electromagnetic Compatibility & Telecommunications

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2015-09-25 through 2016-09-30
Effective Dates




For the National Voluntary Laboratory Accreditation Program

**ELECTROMAGNETIC
COMPATIBILITY &
TELECOMMUNICATIONS**

NVLAP LAB CODE 100276-0

Emissions

Designation

Off-site test location

Description

D.L.S. Electronics performs radiated emissions testing at an additional location, 166 South Carter Street, Genoa City, WI 53128.



Company: Whirlpool Corporation
Model Tested: WICHAM01
Report Number: 22032
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1.0 Summary of Test Report

It was determined that the Whirlpool Inc Amber WiFi Module model WICHAM01, complies with the requirements of CFR 47 Part 15 Subpart C Section 15.247 for a Class II Permissive Change to add an external flex dipole antenna option to the existing Single Modular Approval.

All RF Conducted data can be found in the test report for the original certification (Report Number 21823). No hardware changes were made to the existing certified module.

All testing for this Class II Permissive Change was performed using the same exact module that was tested in the original certification.

Subpart C Section 15.247 Applicable Technical Requirements Tested:

Section	Description	Procedure	Note	Compliant?
15.247(d) 15.205(a) 15.209(a)	Emissions in Restricted Frequency Bands – Radiated	ANSI C63.10-2013 Sections 11.12 & 11.12.1	1	Yes
15.247(d) 15.205(a) 15.209(a)	Restricted Band-Edge Measurements - Radiated	ANSI C63.10-2013 Sections 11.12 & 11.12.1	1	Yes
15.207	AC Line Conducted Emissions	ANSI C63.10-2013 Section 6.2	2	Yes

Note 1: Radiated emission measurement.

Note 2: AC power line conducted measurement.

2.0 Introduction

From July 25th to July 27th, 2016, the Amber WiFi Module model WICHAM01, as provided from Whirlpool Corporation was tested to the requirements of CFR 47 Part 15 Subpart C Section 15.247 for a Class II Permissive Change to add an external flex dipole antenna option to the existing Single Modular Approval. To meet these requirements, the procedures contained within this report were performed by personnel of D.L.S Electronic Systems, Inc.



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Model Tested:	WICHAM01
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3.0 Test Facilities

D.L.S. Electronic Systems, Inc. is a full service EMC/Safety Testing Laboratory accredited to ISO 17025. NVLAP Certificate and Scope can be viewed at <http://www.dlsemc.com/certificate>. Our facilities are registered with the FCC, Industry Canada, and VCCI.

Wisconsin Test Facility:

D.L.S. Electronic Systems, Inc.
166 S. Carter Street
Genoa City, Wisconsin 53128

Wheeling Test Facility:

D.L.S. Electronic Systems, Inc.
1250 Peterson Drive
Wheeling, IL 60090

FCC Registration #90531

4.0 Description of Test Sample

The test sample consists of 1 AMber WiFi module. The 802.11b/g/n specification compliant transceiver is mounted on FR4 substrate which includes an integrated printed circuit board with two "on-board" or imbedded antennas and a shield covering the RF circuitry. Through software configuration the "off-board" or external antenna can be enabled depending on the geographic environment. Test tools are used to allow for different modulation types, power settings and frequency of operation to be set as needed. A 7.2V battery and mating connectors are used to power the device. USB is used to communicate with the DUT.

Type of Equipment / Frequency Range:

Mobile / 2412-2462 MHz

Physical Dimensions of Equipment Under Test:

Length: 90 mm, Width: 25 mm, Height: 11 mm

Power Source:

12 VDC $\pm$ 5% provided from the host appliance
7.2 VDC used for radiated testing
12 VDC wall adapter used for RF conducted testing
Stepped down to 3.3VDC for use by the transmitter
120V / 60Hz was used for AC Line Conducted Testing

Internal Frequencies:

38.4 MHz / Switching power supply frequency: 650 kHz



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Description of Test Sample (continued)

Transmit / Receive Frequencies Used For Test Purpose:

Low channel: 2412 MHz, Middle channel: 2437 MHz, High channel: 2462 MHz
20MHz channel bandwidth

Type of Modulation(s) / New Antenna Types:

802.11b/g/n Modulations

External Dipole Antenna Model W10886260 Rev B (3.0 dBi antenna gain)

Description of Circuit Board(s) / Part Number:

Basic PC Board (with onboard antennas)	W10856613
Extended PC Board (for external antenna)	W10856614

5.0 Test Equipment

A list of the equipment used can be found in the table below. All primary equipment was calibrated against known reference standards with a verified traceable path to NIST.

Radiated 30 – 1000 MHz

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Date	Cal Due Date
Receiver	Rohde & Schwarz	ESI 40	837808/006	20 Hz – 40 GHz	6-23-16	6-23-17
Low Pass Filter	Mini-Circuits	VLFX-1125	MUU9260	30 MHz – 1 GHz	6-3-16	6-3-17
Preamplifier	Rohde & Schwarz	TS-PR10	032001/004	9 kHz – 1 GHz	12-3-15	12-3-16
Antenna	EMCO	3104C	00054892	20 MHz – 200 MHz	3-11-16	3-11-18
Antenna	EMCO	3146	1205	200 MHz – 1 GHz	3-23-16	3-23-18
Test Software	Rohde & Schwarz	ESK-1	V1.7.1	N/A	N/A	N/A



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Test Equipment (continued)

Radiated 1-18 GHz

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Date	Cal Due Date
Receiver	Rohde & Schwarz	ESI 26	837491/010	20 Hz – 26 GHz	6-23-16	6-23-17
Preamp	Ciao	CA118-4010	101	1GHz-18GHz	1-20-16	1-20-17
Horn Antenna	EMCO	3115	9502-4451	1-18GHz	6-1-15	6-1-17
Filter- High-Pass	Q-Microwave	100462	2	4.2GHz-18GHz	10-13-15	10-13-16
Test Software	Rohde & Schwarz	ESK-1	V1.7.1	N/A	N/A	N/A

Additional Radiated 18-26 GHz

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Date	Cal Due Date
Preamp	Miteq	AMF-8B-180265-40-10P-H/S	438727	18GHz-26GHz	6-6-16	6-6-17
Horn Antenna	EMCO	3116	2549	18 – 40GHz	9-2-14	9-2-16
Filter- High Pass	K&L	50140-11SH10-18000/T40000-K-K	438727	18-40GHz	1-27-16	1-27-17
Test Software	Rohde & Schwarz	ESK-1	V1.7.1	N/A	N/A	N/A

AC Line Conducted (Screen Room)

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Date	Cal Due Dates
Receiver	Narda PMM	9010F	020WW40102	10Hz-50MHz	6-25-15	6-25-16
LISN	Solar	9252-50-R-24-BNC	961019	9 kHz – 30 MHz	5-21-15	5-21-16
Filter- High-Pass	SOLAR	7930-120	090702	120 kHz – 30 MHz	12-3-15	12-3-16
Limiter	Electro-Metrics	EM-7600	705	9 kHz – 30 MHz	12-3-15	12-3-16
Test Software	Narda PMM	PMM Emission Suite	Rel.2.17	N/A	N/A	N/A



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6.0 Test Arrangements

Measurement Arrangement:

All measurements were performed at D.L.S. Electronic Systems, Inc. and set up according to ANSI C63.10-2013, unless otherwise noted. Description of procedures and measurements can be found in Appendix B – Measurement Data. See Appendix A for additional photos of the test set up. See Appendix C for measurement uncertainty.

Unless otherwise noted, the bandwidth of the measuring receiver / analyzer used during testing is shown below.

Frequency Range	Bandwidth (-6 dB)
10 to 150 kHz	200 Hz
150 kHz to 30 MHz	9 kHz
30 MHz to 1 GHz	120 kHz
Above 1 GHz	1 MHz

7.0 Test Conditions

Temperature and Humidity:

74°F at 49% RH unless otherwise noted on test data

Supply Voltage:

7.2 VDC used for radiated testing
12 VDC wall adapter used for RF conducted testing (see original report)
120V / 60Hz for AC Line Conducted Testing

8.0 Modifications Made To EUT For Compliance

The output power settings were set during testing. The output power setting is not related to the output power level in dBm.

This is intended to mean that an output power setting of 18 is unitless and does not imply that, at a setting of 18, the output power will be exactly 18 dBm. The power setting is, however, related to the output power to the extent that a lower setting will result in a lower output power level. The output power settings were reduced to facilitate bandedge compliance. These lower power settings did lower the actual output power level. However, the power level measured in dBm does not match exactly with the number of the power setting. Again, the power setting number is a unitless number and not a dBm power level declaration.



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9.0 Additional Descriptions

The EUT was powered with an AC to DC power adapter for RF conducted emissions, and with a rechargeable battery for radiated emissions.

The EUT was programmed for continuous transmission on Low, Mid, and High channels, using 802.11-b, g, and n modulation types with various data rates.

For radiated emissions, the EUT with was rotated through 3 orthogonal axis to find worst-case.

AC line conducted tested with HON-KWANG, model HK-CP12-A12 12V DC power supply.

10.0 Final Power Settings

802.11b – with External Dipole											
Channel	1	2	3	4	5	6	7	8	9	10	11
Power Setting	17	18	18	18	18	18	18	18	18	18	17

802.11g – with External Dipole											
Channel	1	2	3	4	5	6	7	8	9	10	11
Power Setting	11	15	16	17	17	17	17	15	14	13	10

802.11n – with External Dipole											
Channel	1	2	3	4	5	6	7	8	9	10	11
Power Setting	10	14	14	14	14	14	14	14	14	12	8

11.0 Section 15.230 Antenna Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.... This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221.

Statement: This wireless device (Intentional Radiator) meets the requirements of FCC Part 15.203:

- ✓ This intentional radiator is professionally installed



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12.0 Results

Measurements were performed in accordance with CFR 47 Part 15 Subpart C Section 15.247 and ANSI C63.10-2013. Graphical and tabular data can be found in Appendix B at the end of this report.

13.0 Conclusion

The Amber WiFi Module model WICHAM01, as provided from Whirlpool, tested from July 25th to July 27th, 2016 **meets** the requirements of CFR 47 Part 15 Subpart C Section 15.247 for a Class II Permissive Change to add an external flex dipole antenna option to the existing Single Modular Approval.



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Appendix A – Test Photos

Photo Information and Test Setup:

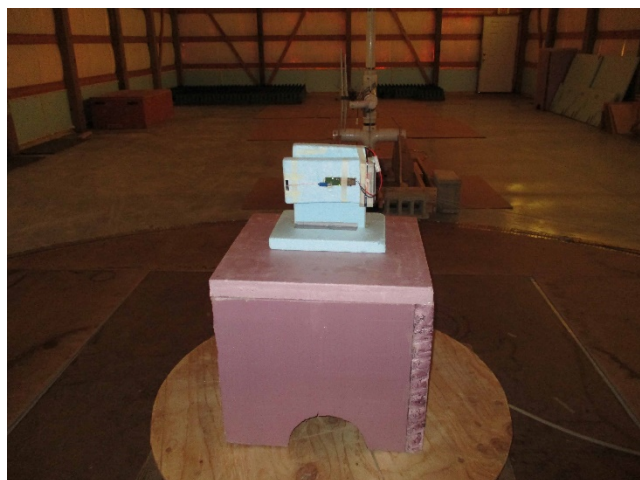
Item: Whirlpool Corporation Model WICHAM01
Tested with battery pack (not part of the EUT)

Radiated Emissions Below 1 GHz – with External Dipole Antenna

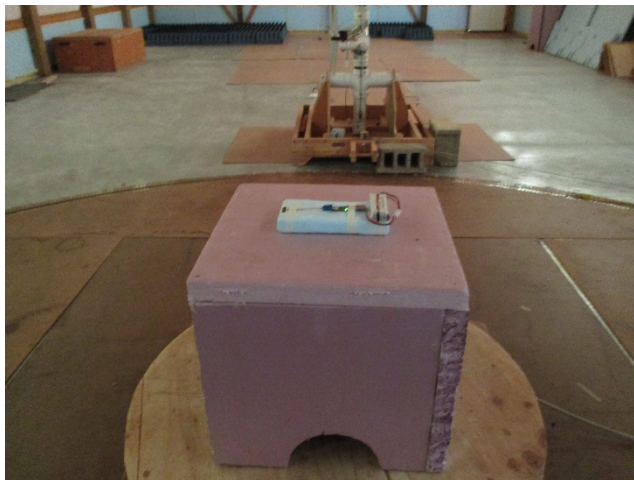
Position 1



Position 2



Position 3

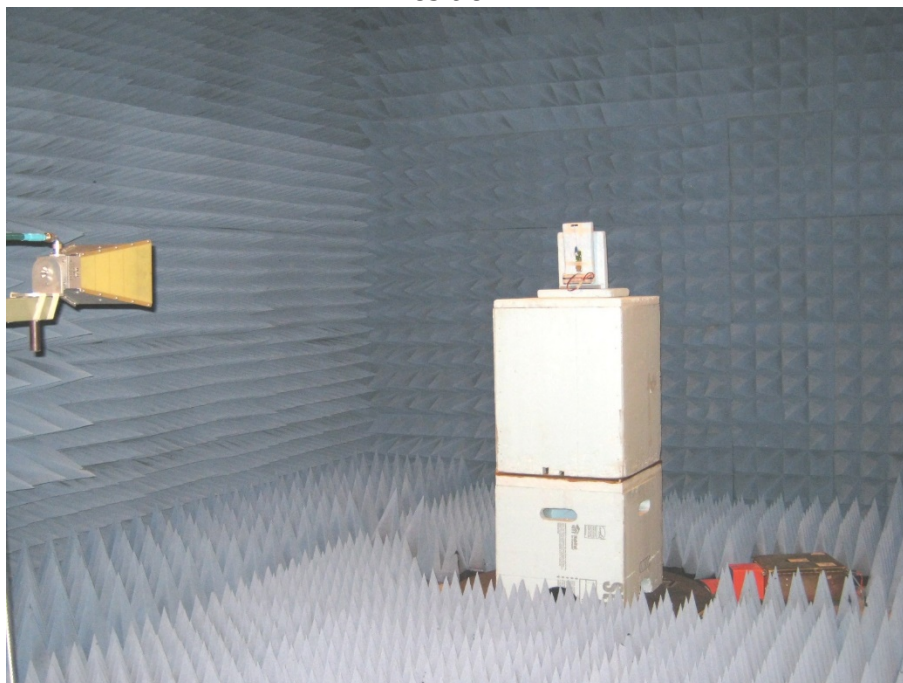


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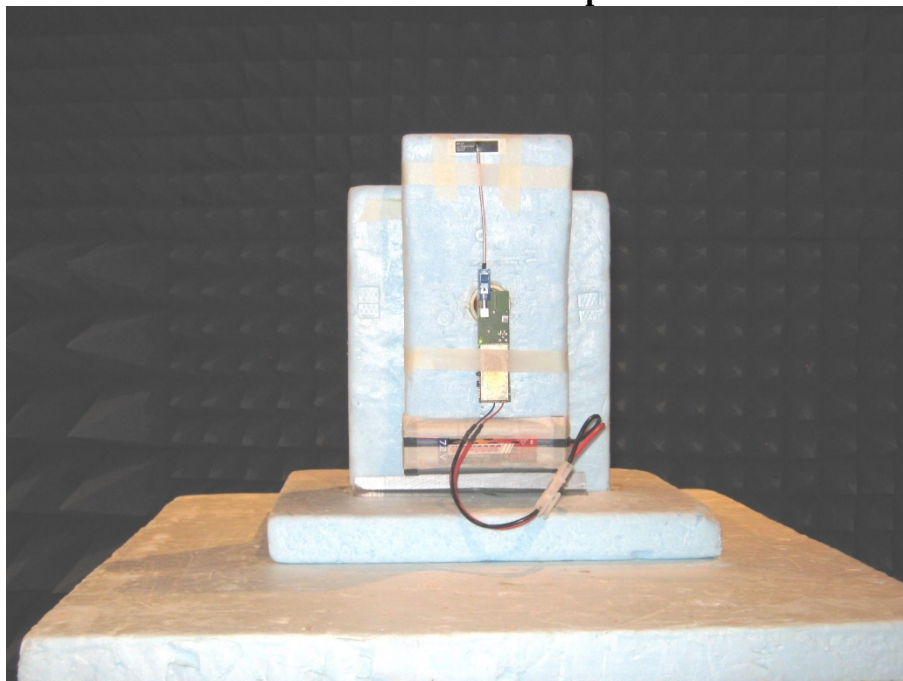
Appendix A (continued)

Radiated Emissions Above 1 GHz – with External Dipole Antenna

Position 1



Position 1 – Close-up

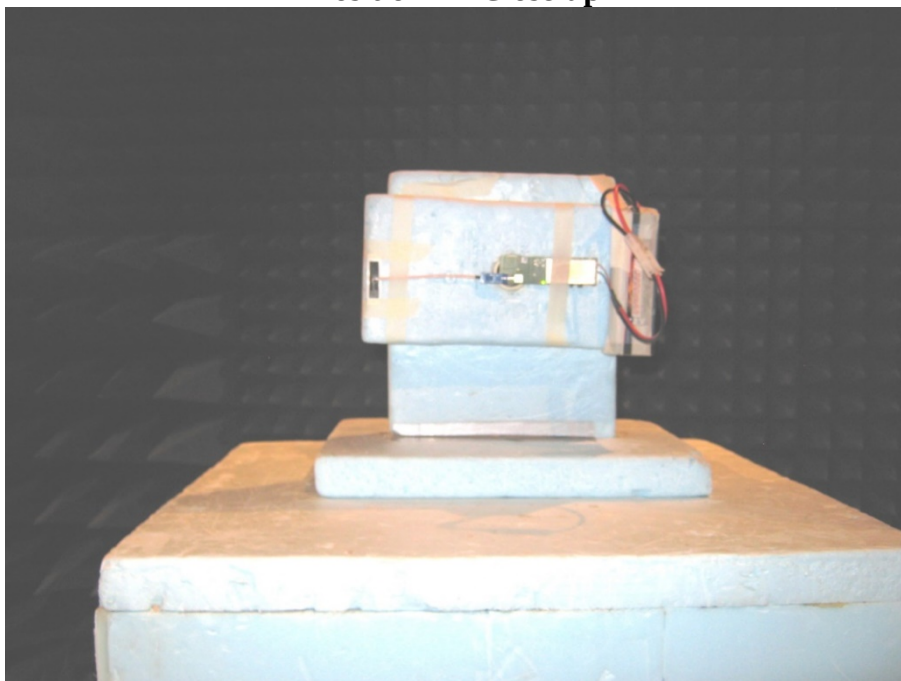


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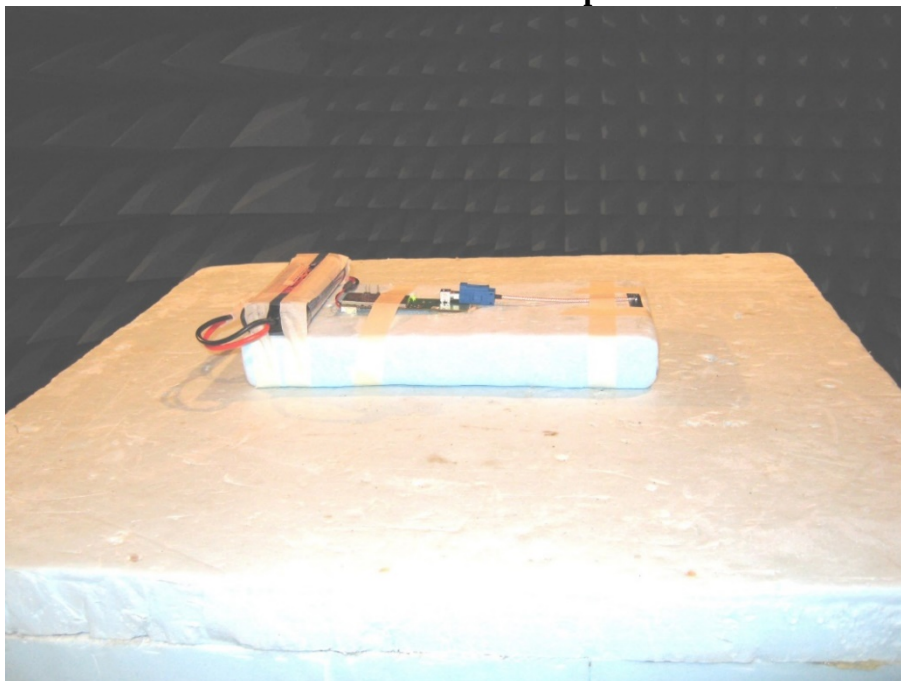
Appendix A (continued)

Radiated Emissions Above 1 GHz – with External Dipole Antenna

Position 2 – Close-up



Position 3 – Close-up





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Appendix B – Test Data

B1.0 Emissions in Restricted Frequency Bands – Radiated

Rule Part:

15.247(d), 15.205(a), 15.209(a)

Test Procedure:

ANSI C63.10-2013
11.12 Emissions in Restricted Frequency Bands
11.12.1 Radiated Emissions Measurements

Limit:

15.209(a)

Results:

Compliant

Notes:

Measurements were performed with the EUT transmitting from the external Dipole antenna. Testing was performed with 802.11-b 1 Mbps modulation (found to be worst-case) and output power setting 18. The EUT was tested at the low, middle, and high channels of operation.

Electric Field Strength

EUT: Amber with external dipole antenna
Manufacturer: Whirlpool Corporation
Operating Condition: 72 deg. F; 59% R.H.
Test Site: DLS Site 2
Operator: Craig B #8095
Test Specification: Transmitter spurious emissions in Restricted Bands
Comment: 802.11-b; L, M, H channels; power setting 18
Date: 07-27-2016

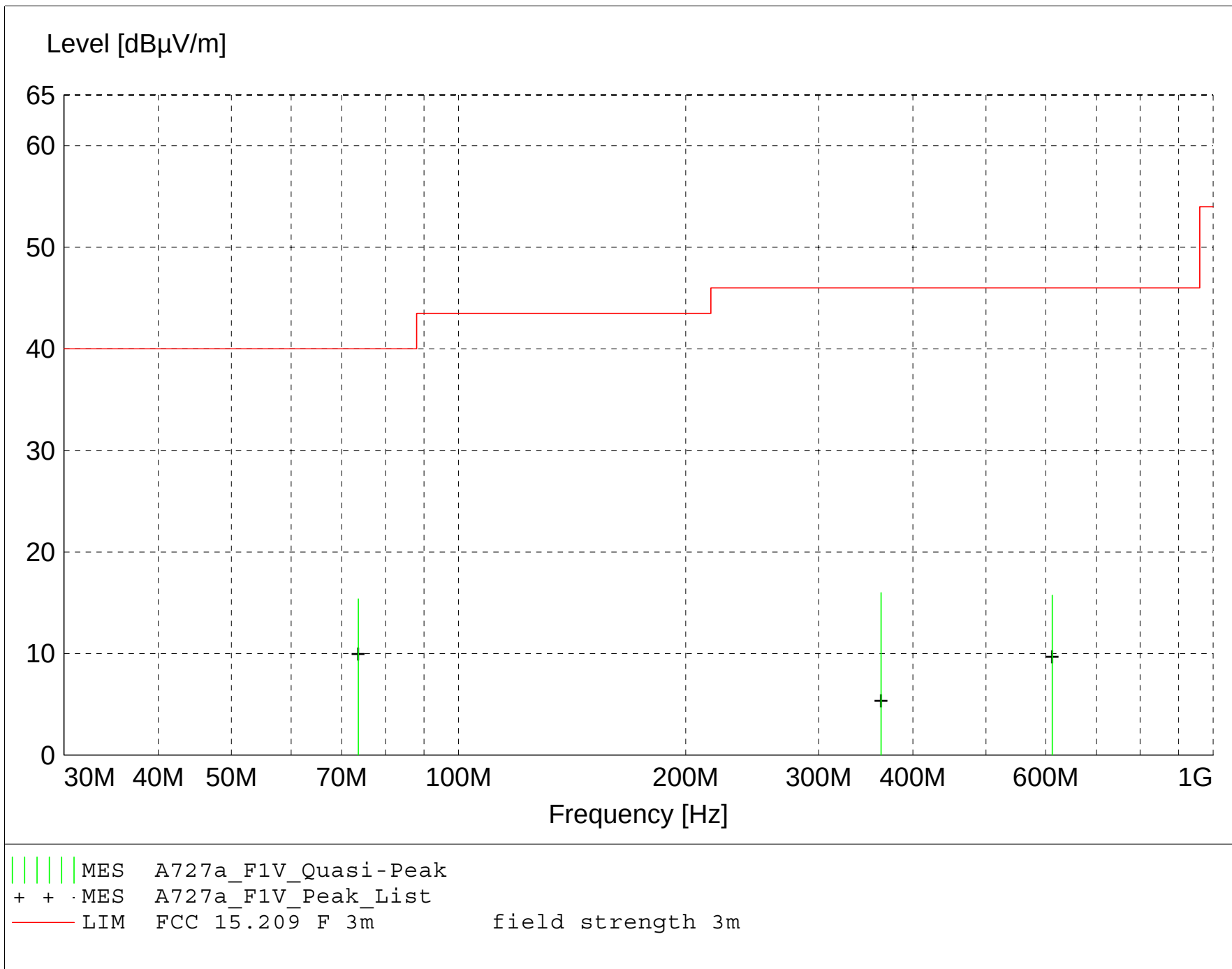
TEXT: "Vert 3 meters"

Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with VERTICAL Antenna Polarization

Equations:
$$\text{Total Level (dB}\mu\text{V/m)} = \text{Level (dB}\mu\text{V)} + \text{System Loss (dB)} + \text{Antenna Factor (dB}\mu\text{V/m)}$$
$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

Graph Markers: + Frequency marker (Level of marker not related to final level)
| Final maximized level using Quasi-Peak detector
X Final maximized level using Average detector
Final maximized level using Peak detector



MEASUREMENT RESULT: "A727a_F1V_Final"

7/27/2016 11:20AM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
73.630000	32.86	6.34	-23.8	15.4	40.0	24.6	1.00	0	QUASI-PEAK	noise floor
362.980000	22.94	14.96	-21.9	16.0	46.0	30.0	1.00	0	QUASI-PEAK	noise floor
612.040000	16.82	19.48	-20.6	15.7	46.0	30.3	1.00	0	QUASI-PEAK	noise floor

Electric Field Strength

EUT: Amber with external dipole antenna
Manufacturer: Whirlpool Corporation
Operating Condition: 72 deg. F; 59% R.H.
Test Site: DLS Site 2
Operator: Craig B #8095
Test Specification: Transmitter spurious emissions in Restricted Bands
Comment: 802.11-b; L, M, H channels; power setting 18
Date: 07-27-2016

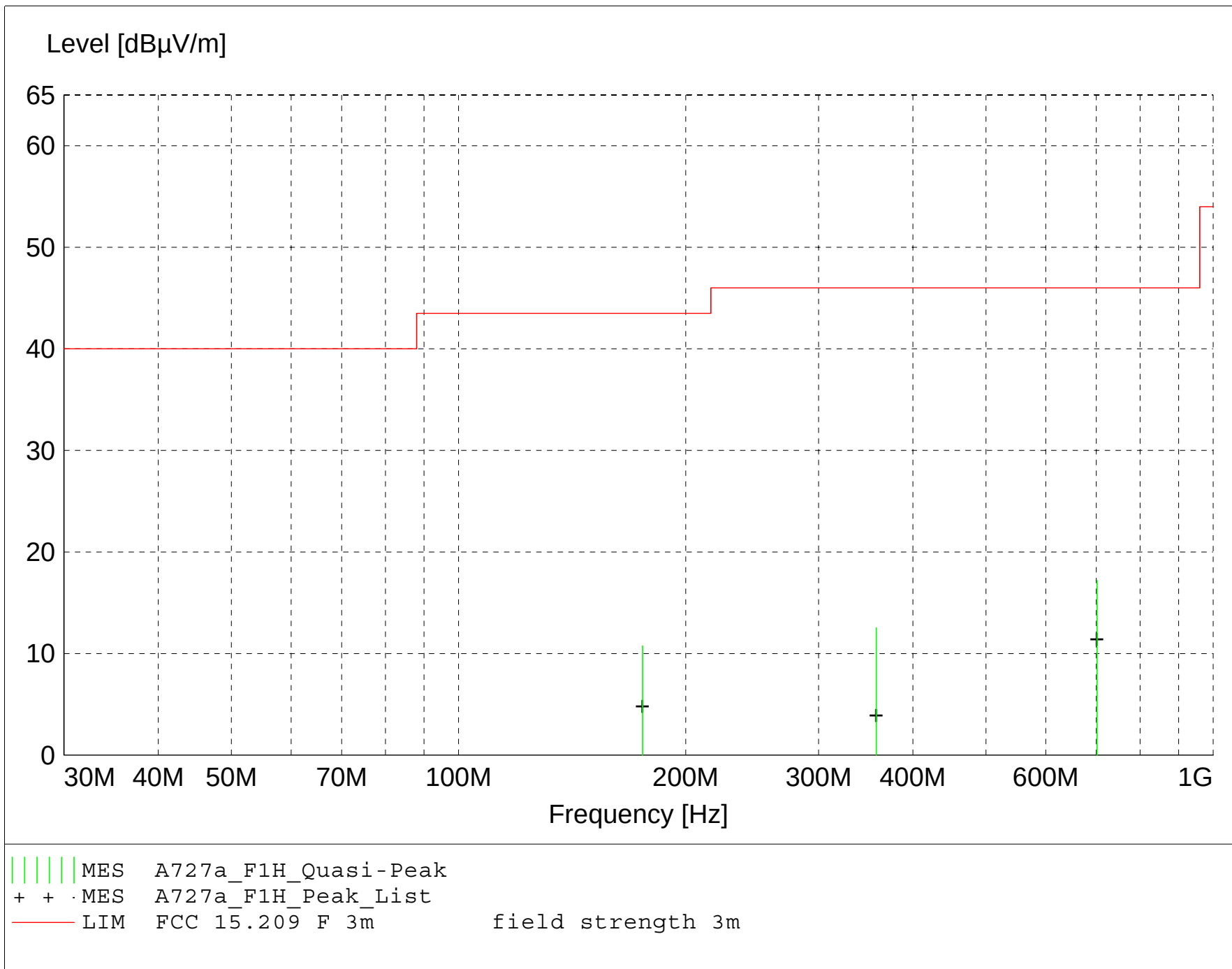
TEXT: "Horz 3 meters"

Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with HORIZONTAL Antenna Polarization

Equations:
$$\text{Total Level (dB}\mu\text{V/m)} = \text{Level (dB}\mu\text{V)} + \text{System Loss (dB)} + \text{Antenna Factor (dB}\mu\text{V/m)}$$
$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

Graph Markers: + Frequency marker (Level of marker not related to final level)
| Final maximized level using Quasi-Peak detector
X Final maximized level using Average detector
Final maximized level using Peak detector



MEASUREMENT RESULT: "A727a_F1H_Final"

7/27/2016 11:02AM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
701.680000	16.30	21.07	-20.2	17.2	46.0	28.8	1.40	0	QUASI-PEAK	noise floor
175.300000	18.36	15.26	-22.9	10.8	43.5	32.7	2.40	0	QUASI-PEAK	noise floor
357.630000	19.57	14.90	-21.9	12.5	46.0	33.5	2.00	0	QUASI-PEAK	noise floor

Radiated Emissions in Restricted Bands – 1 GHz to 26 GHz

1 GHz to 18 GHz Tested at a 3 Meter Distance

18 GHz to 26 GHz Tested at a 1 Meter Distance

EUT: Amber
Manufacturer: Whirlpool Corporation
Operating Condition: 74 deg F; 49% R.H.
Test Site: 1-18 GHz, Site G1, 18-26 GHz Site 3
Operator: Craig B
Test Specification: FCC Part 15.247 and Part 15.205
Comment: **Low channel: 2.412 GHz, 802.11-b, DSSS, 1 Mbps; with external dipole antenna**
Date: 07-26-2016
Notes: All other emissions at least 20 dB under the limit.

Frequency (GHz)	Measurement Type	Antenna Polarization	Level (dBuV)	Antenna Factor (dB/m)	System Loss (dB)	Total Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	EUT Angle (deg)	Comment
4.824	Max Peak	Vert	55.48	32.88	-36.3	52.1	74	21.9	1.8	223	Restricted Band
4.824	Average	Vert	51.40	32.88	-36.3	48.0	54	6.0	1.8	223	Restricted Band
4.824	Max Peak	Horz	52.68	32.88	-36.3	49.3	74	24.7	1.8	319	Restricted Band
4.824	Average	Horz	46.39	32.88	-36.3	43.0	54	11.0	1.8	319	Restricted Band
12.060	Max Peak	Vert	49.80	38.90	-33.2	55.5	74	18.5	1.9	168	Restricted Band
12.060	Average	Vert	38.13	38.90	-33.2	43.8	54	10.2	1.9	168	Restricted Band
12.060	Max Peak	Horz	49.39	38.90	-33.2	55.1	74	18.9	2.0	218	Restricted Band
12.060	Average	Horz	38.46	38.90	-33.2	44.2	54	9.8	2.0	218	Restricted Band

Radiated Emissions in Restricted Bands – 1 GHz to 26 GHz

1 GHz to 18 GHz Tested at a 3 Meter Distance

18 GHz to 26 GHz Tested at a 1 Meter Distance

EUT: Amber
Manufacturer: Whirlpool Corporation
Operating Condition: 74 deg F; 49% R.H.
Test Site: 1-18 GHz, Site G1, 18-26 GHz Site 3
Operator: Craig B
Test Specification: FCC Part 15.247 and Part 15.205
Comment: Mid channel: 2.437 GHz, 802.11-b, DSSS, 1 Mbps; with external dipole antenna
Date: 07-26-2016
Notes: All other emissions at least 20 dB under the limit.

Frequency (GHz)	Measurement Type	Antenna Polarization	Level (dBuV)	Antenna Factor (dB/m)	System Loss (dB)	Total Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	EUT Angle (deg)	Comment
4.874	Max Peak	Vert	55.48	32.98	-36.4	52.1	74	21.9	1.7	227	Restricted Band
4.874	Average	Vert	51.02	32.98	-36.4	47.6	54	6.4	1.7	227	Restricted Band
4.874	Max Peak	Horz	53.46	32.98	-36.4	50.0	74	24.0	1.5	314	Restricted Band
4.874	Average	Horz	47.18	32.98	-36.4	43.8	54	10.2	1.5	314	Restricted Band
7.311	Max Peak	Vert	55.11	36.44	-33.4	58.2	74	15.9	1.8	181	Restricted Band
7.311	Average	Vert	50.69	36.44	-33.4	53.7	54	0.3	1.8	181	Restricted Band
7.311	Max Peak	Horz	55.22	36.44	-33.4	58.3	74	15.7	1.7	187	Restricted Band
7.311	Average	Horz	50.21	36.44	-33.4	53.3	54	0.7	1.7	187	Restricted Band
12.185	Max Peak	Vert	48.99	38.82	-33.4	54.4	74	19.6	1.9	178	Restricted Band
12.185	Average	Vert	36.91	38.82	-33.4	42.3	54	11.7	1.9	178	Restricted Band
12.185	Max Peak	Horz	49.26	38.82	-33.4	54.7	74	19.3	1.4	133	Restricted Band
12.185	Average	Horz	36.98	38.82	-33.4	42.4	54	11.6	1.4	133	Restricted Band

Radiated Emissions in Restricted Bands – 1 GHz to 26 GHz

1 GHz to 18 GHz Tested at a 3 Meter Distance

18 GHz to 26 GHz Tested at a 1 Meter Distance

EUT: Amber
Manufacturer: Whirlpool Corporation
Operating Condition: 74 deg F; 49% R.H.
Test Site: 1-18 GHz, Site G1, 18-26 GHz Site 3
Operator: Craig B
Test Specification: FCC Part 15.247 and Part 15.205
Comment: **High channel: 2.462 GHz, 802.11-b, DSSS, 1 Mbps; with external dipole antenna**
Date: 07-26-2016
Notes: All other emissions at least 20 dB under the limit.

Frequency (GHz)	Measurement Type	Antenna Polarization	Level (dBuV)	Antenna Factor (dB/m)	System Loss (dB)	Total Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	EUT Angle (deg)	Comment
4.924	Max Peak	Vert	53.73	33.05	-36.4	50.4	74	23.6	1.8	230	Restricted Band
4.924	Average	Vert	47.95	33.05	-36.4	44.6	54	9.4	1.8	230	Restricted Band
4.924	Max Peak	Horz	52.68	33.05	-36.4	49.3	74	24.7	1.5	333	Restricted Band
4.924	Average	Horz	46.12	33.05	-36.4	42.8	54	11.2	1.5	333	Restricted Band
7.386	Max Peak	Vert	54.13	36.60	-32.8	57.9	74	16.1	1.9	183	Restricted Band
7.386	Average	Vert	48.59	36.60	-32.8	52.4	54	1.6	1.9	183	Restricted Band
7.386	Max Peak	Horz	53.20	36.60	-32.8	57.0	74	17.0	1.6	201	Restricted Band
7.386	Average	Horz	46.50	36.60	-32.8	50.3	54	3.7	1.6	201	Restricted Band



Company:
Model Tested:
Report Number:
DLS Project:

Whirlpool Corporation
WICHAM01
22032
8095

166 South Carter, Genoa City, WI 53128

Appendix B

B2.0 Restricted Band-Edge Measurements – Radiated

Measured at nearest restricted bands

Rule Part:

15.247(d), 15.205(a), 15.209(a)

Test Procedure:

ANSI C63.10-2013
11.12 Emissions in Restricted Frequency Bands
11.12.1 Radiated Emissions Measurements

Limit:

15.209(a)

Results:

Compliant

Notes:

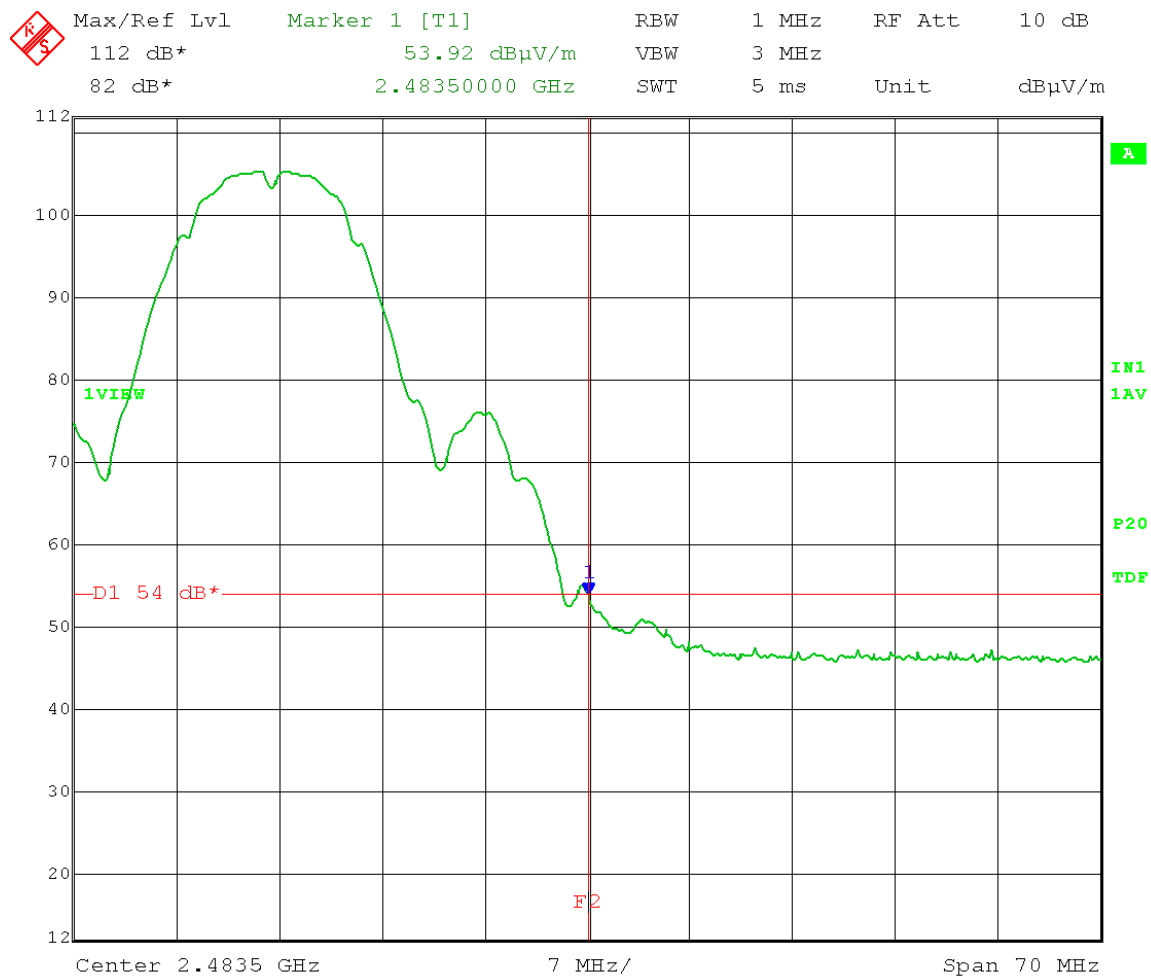
Measurements were performed with the EUT transmitting from the external Dipole antenna. Testing was performed with all modulation types using the data rate that produced the widest signal. The EUT was tested at various channels of operation. The highest output power setting that resulted in a passing condition is noted on the data. Measurements were performed at the 2.39 GHz and 2.4835 GHz restricted band edges.

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: High, 2462 MHz, channel 11
Modulation: 802.11-b, 1 Mbps
Power setting: 17

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



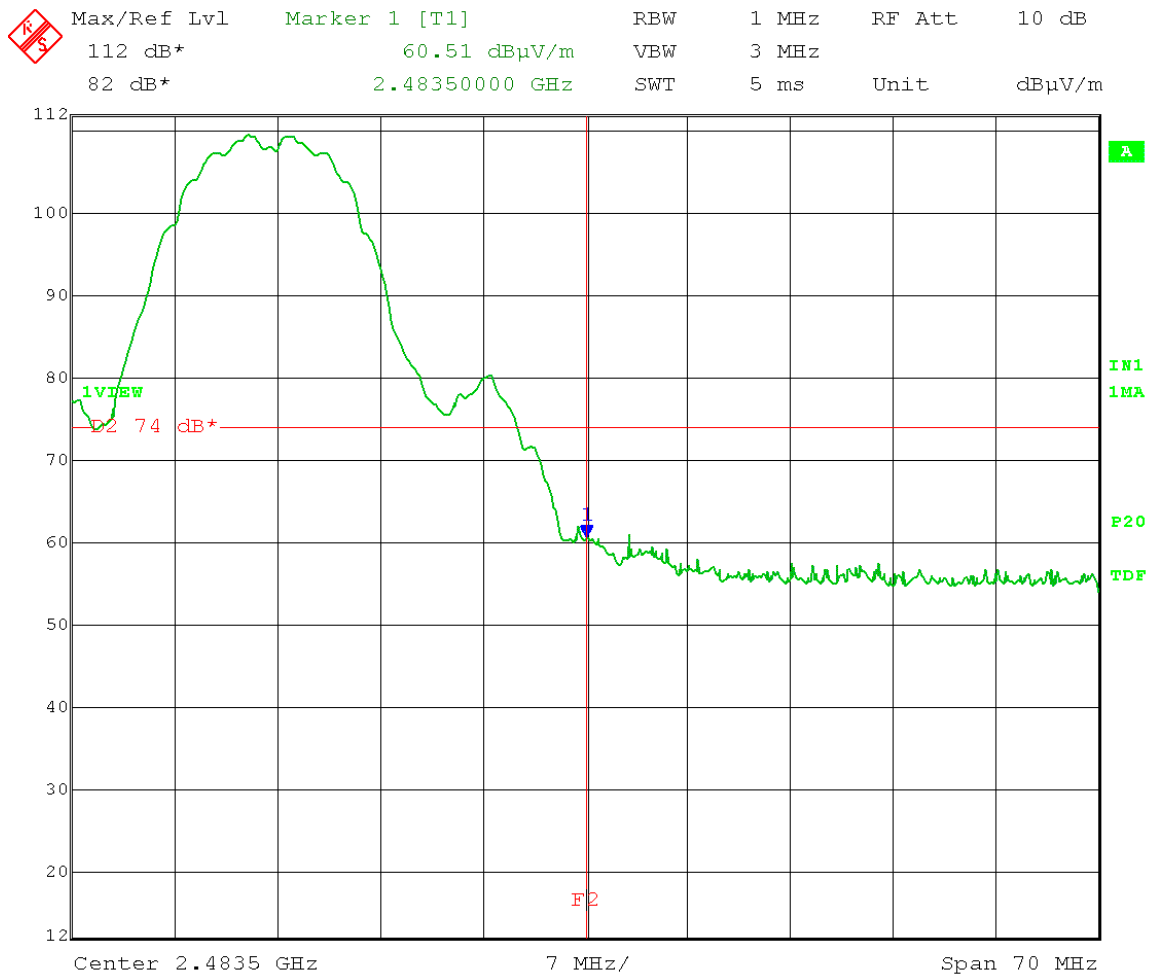
Date: 25.JUL.2016 12:35:43

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: High, 2462 MHz, channel 11
Modulation: 802.11-b, 1 Mbps
Power setting: 17

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



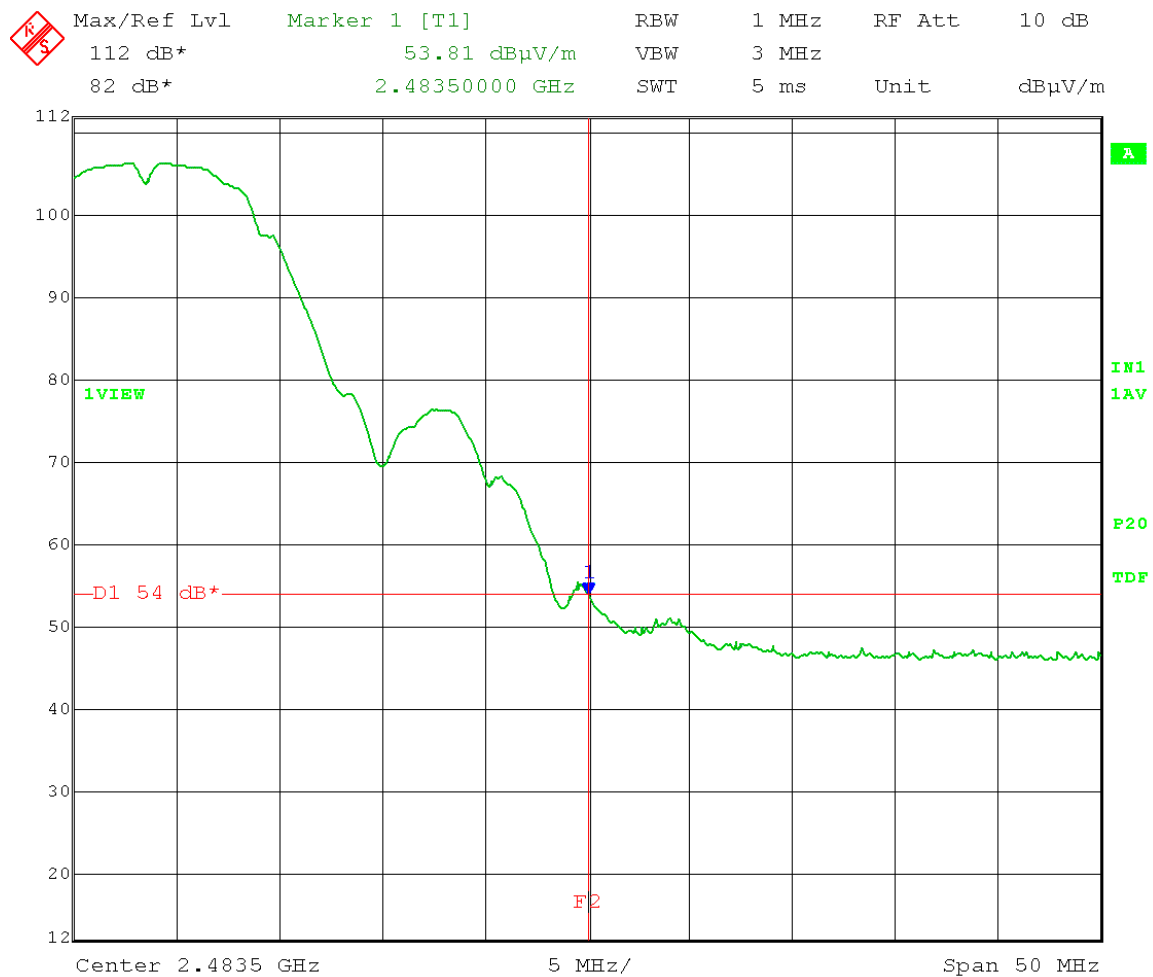
Date: 25.JUL.2016 12:36:21

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: High, 2462 MHz, channel 11
Modulation: 802.11-b, 1 Mbps
Power setting: 17

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



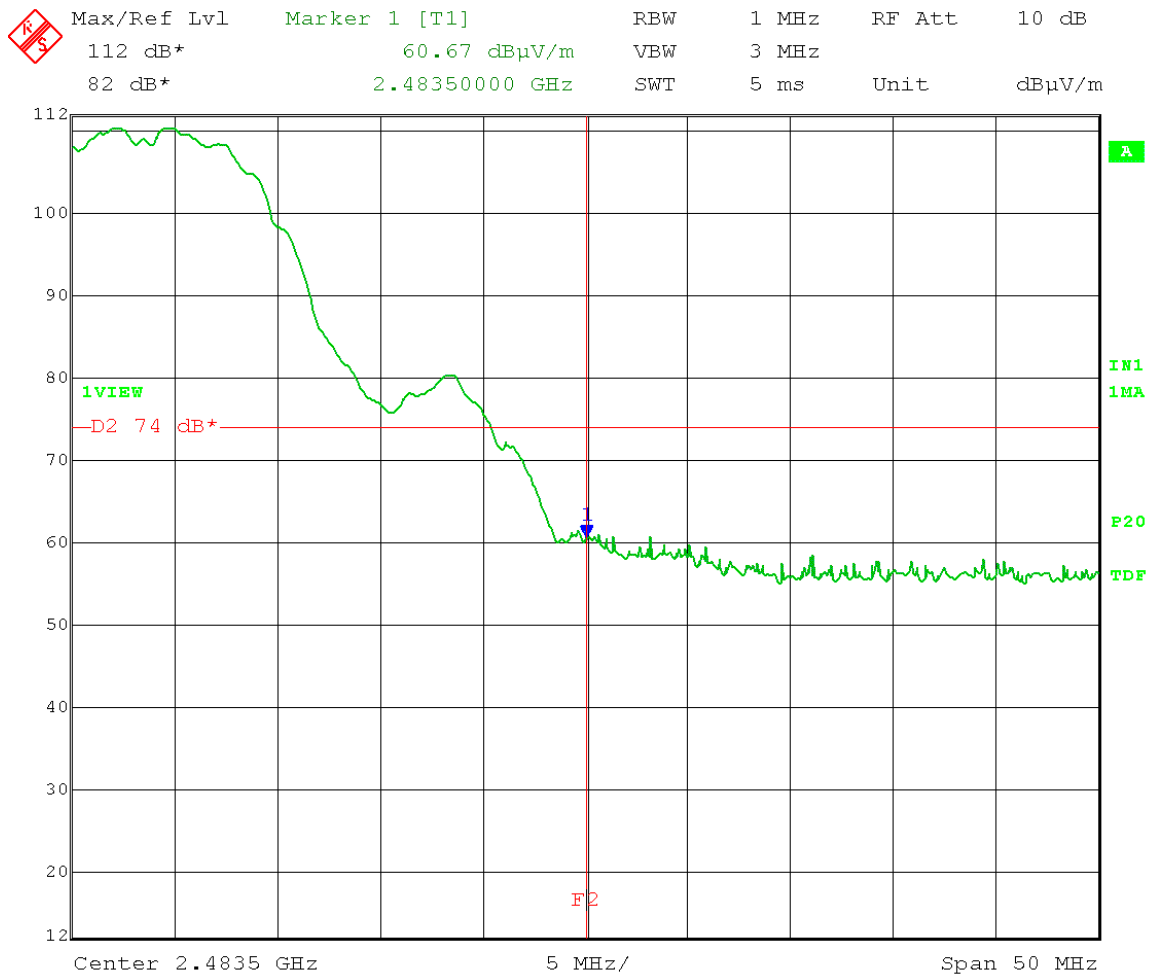
Date: 25.JUL.2016 09:09:09

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: High, 2462 MHz, channel 11
Modulation: 802.11-b, 1 Mbps
Power setting: 17

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



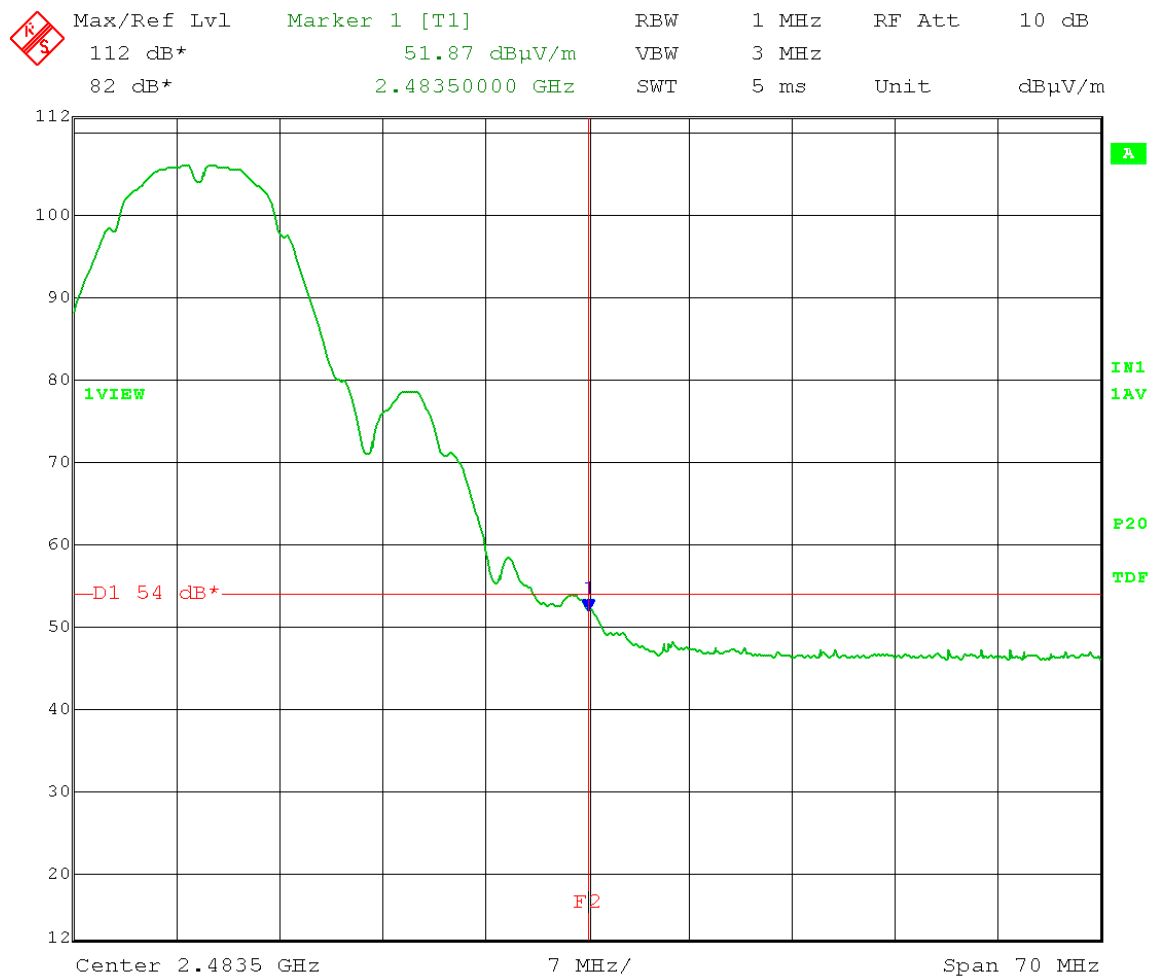
Date: 25.JUL.2016 09:10:23

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2457 MHz, channel 10
Modulation: 802.11-b, 1 Mbps
Power setting: 18

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



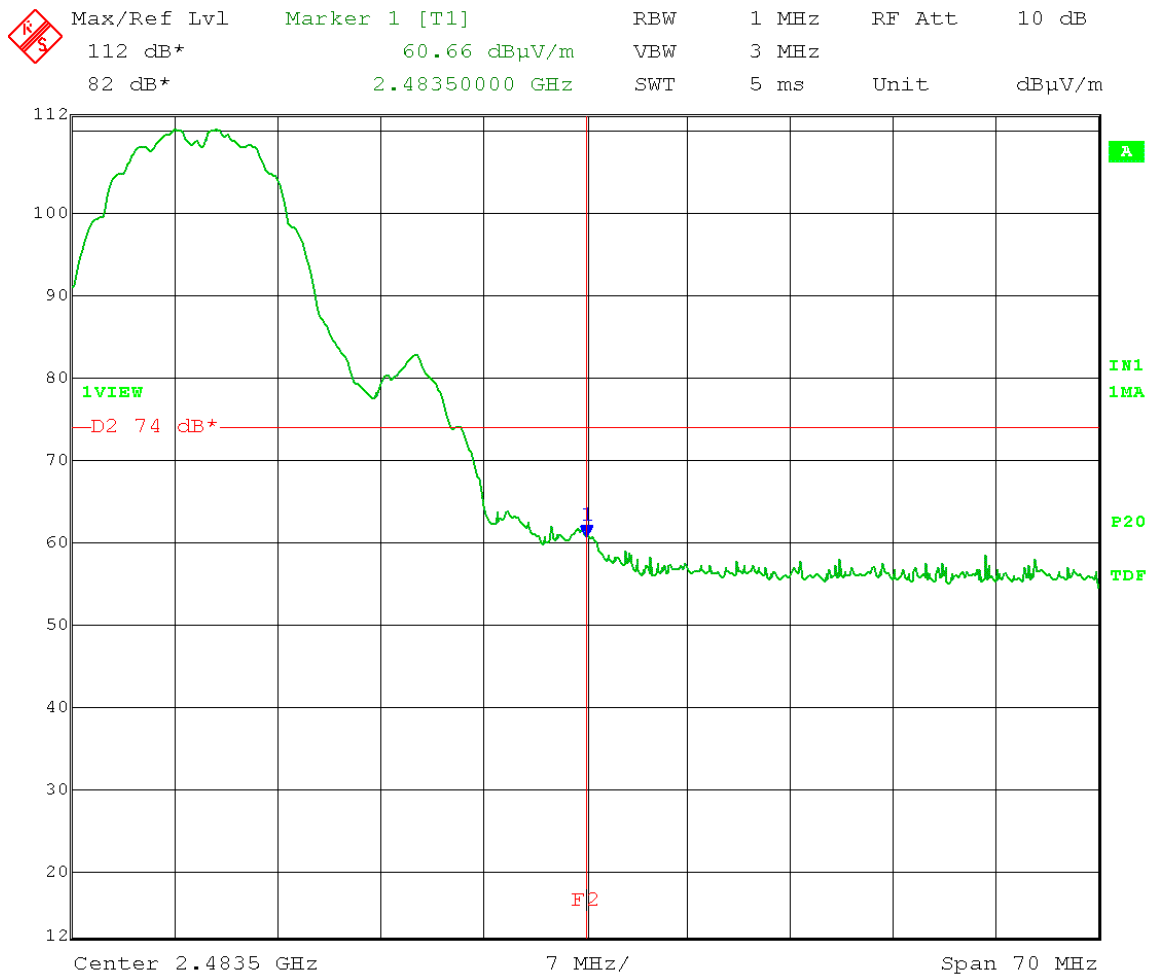
Date: 25.JUL.2016 12:38:22

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2457 MHz, channel 10
Modulation: 802.11-b, 1 Mbps
Power setting: 18

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



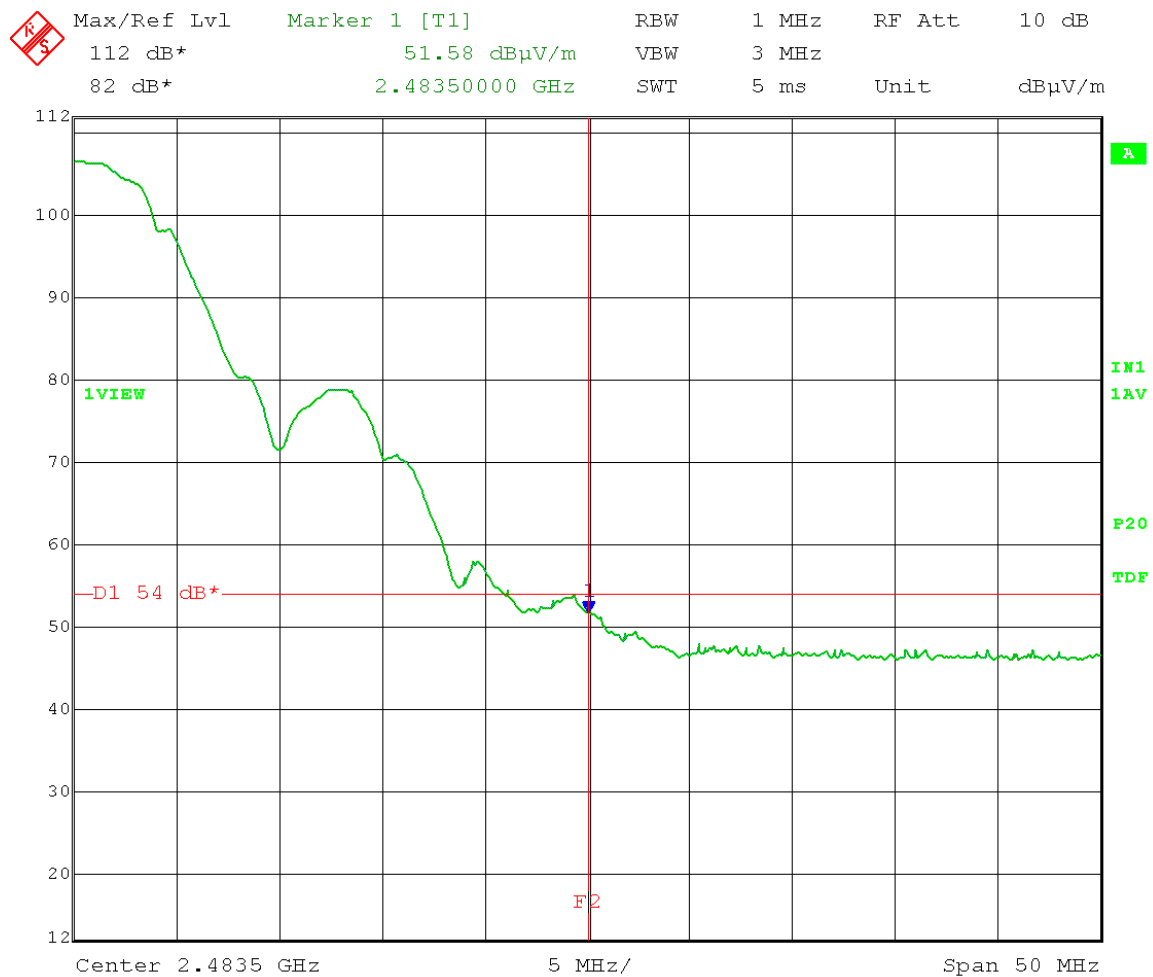
Date: 25.JUL.2016 12:39:07

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2457 MHz, channel 10
Modulation: 802.11-b, 1 Mbps
Power setting: 18

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



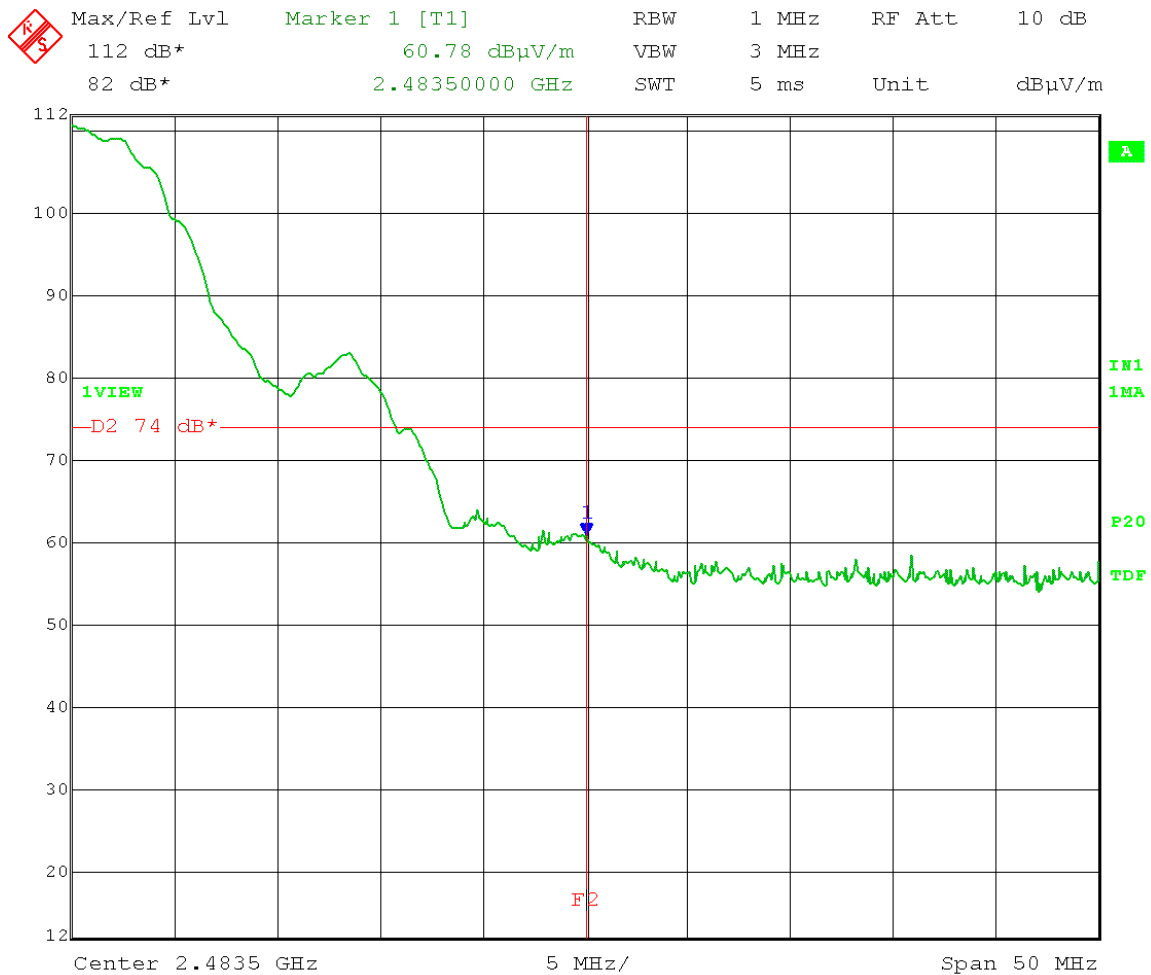
Date: 25.JUL.2016 09:13:48

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2457 MHz, channel 10
Modulation: 802.11-b, 1 Mbps
Power setting: 18

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



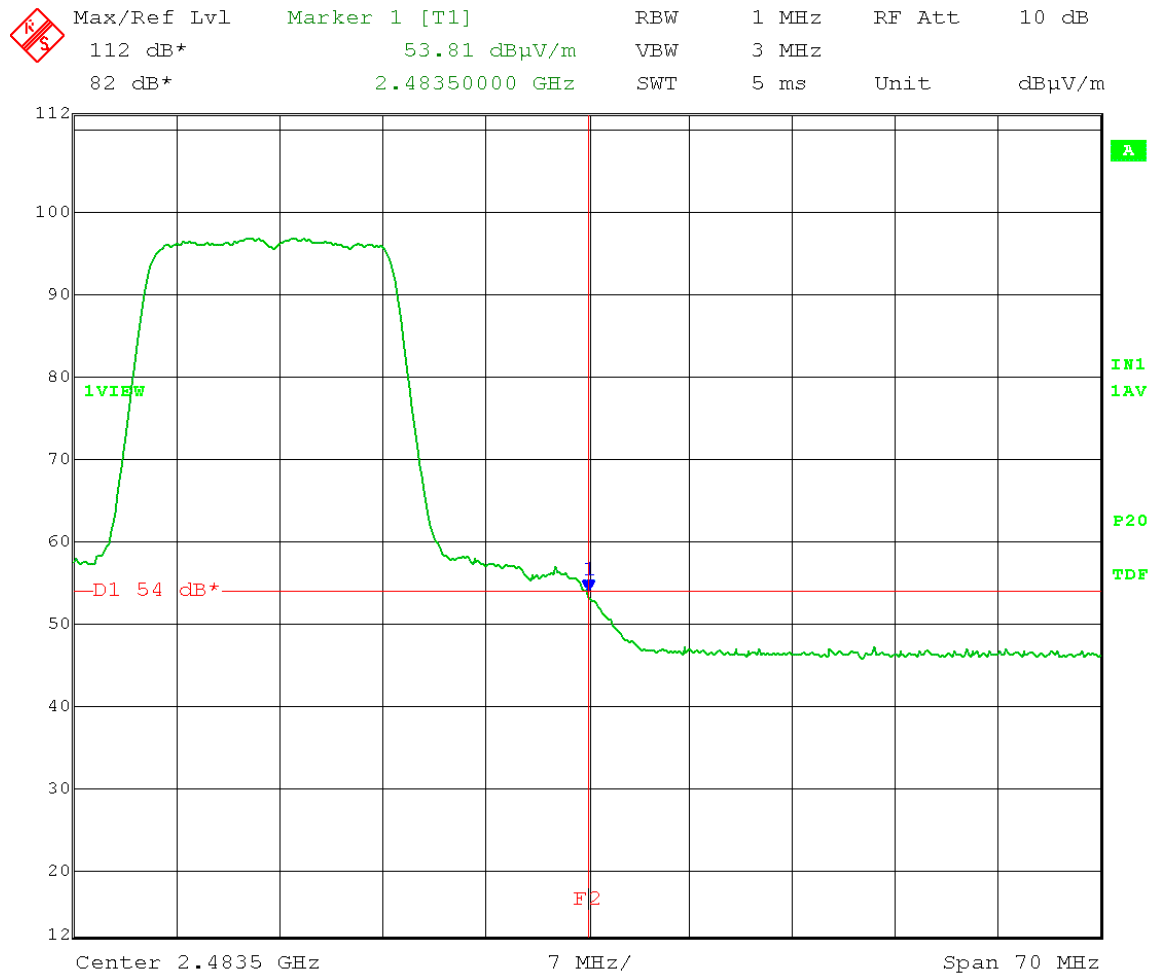
Date: 25.JUL.2016 09:14:19

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: High, 2462 MHz, channel 11
Modulation: 802.11-g, 54 Mbps
Power setting: 10

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



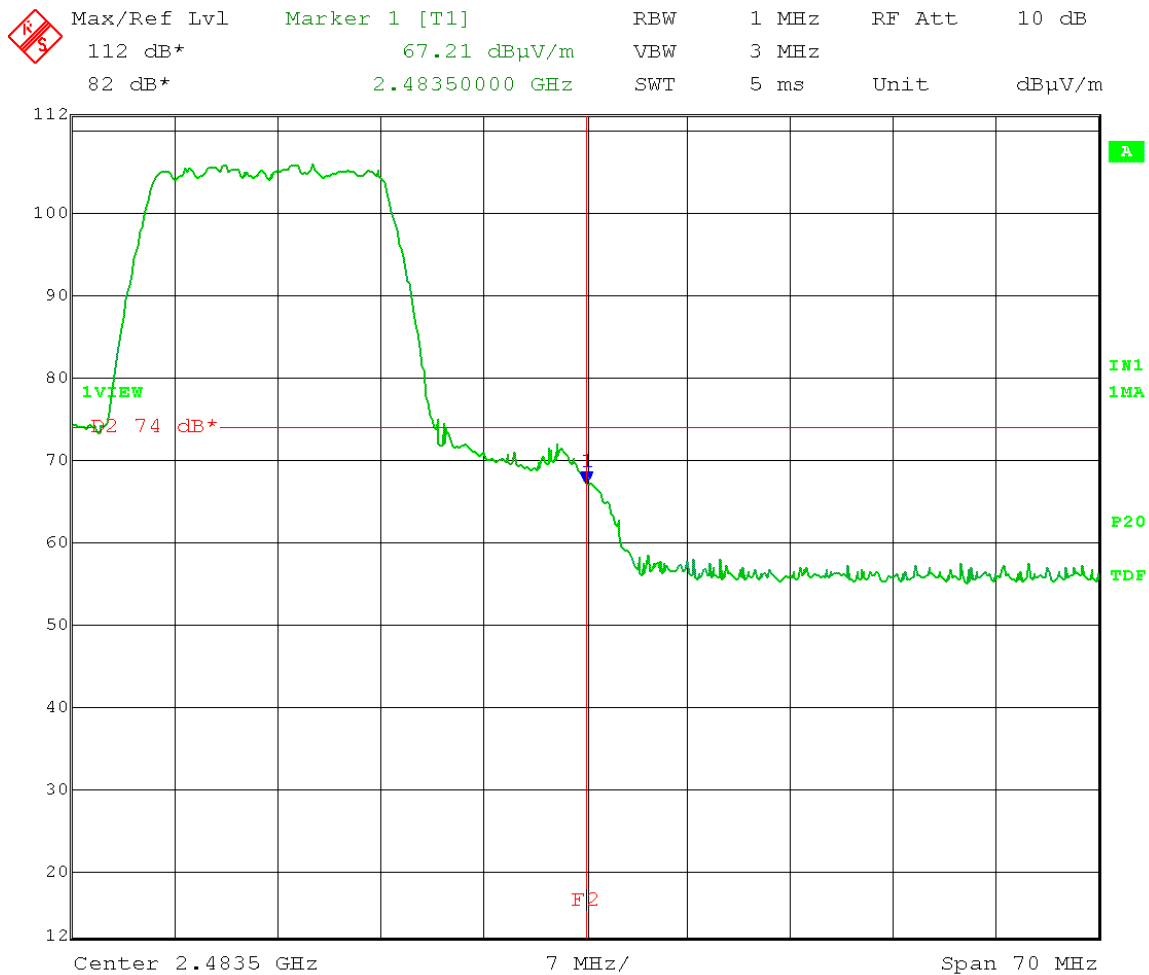
Date: 25.JUL.2016 12:41:26

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: High, 2462 MHz, channel 11
Modulation: 802.11-g, 54 Mbps
Power setting: 10

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



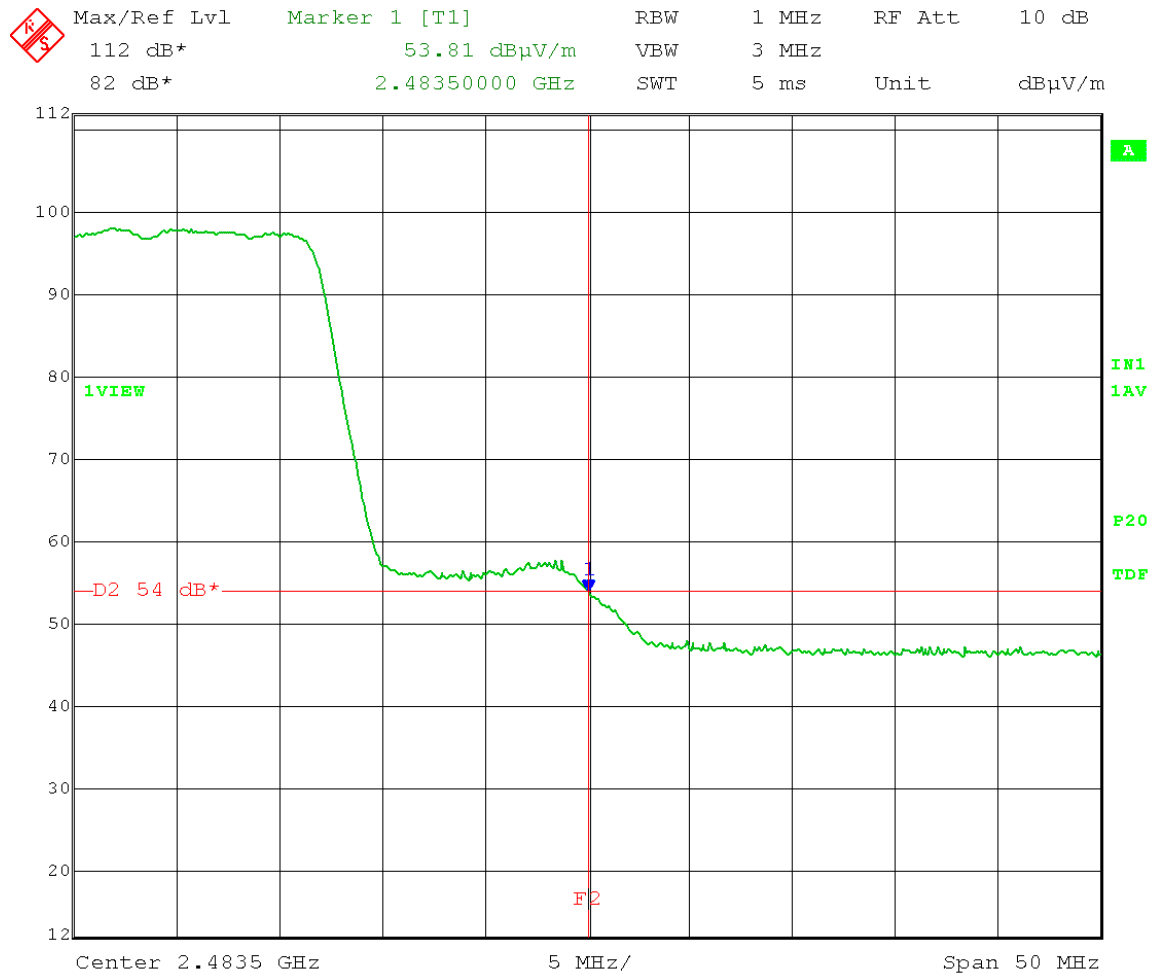
Date: 25.JUL.2016 12:42:11

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: High, 2462 MHz, channel 11
Modulation: 802.11-g, 54 Mbps
Power setting: 10

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



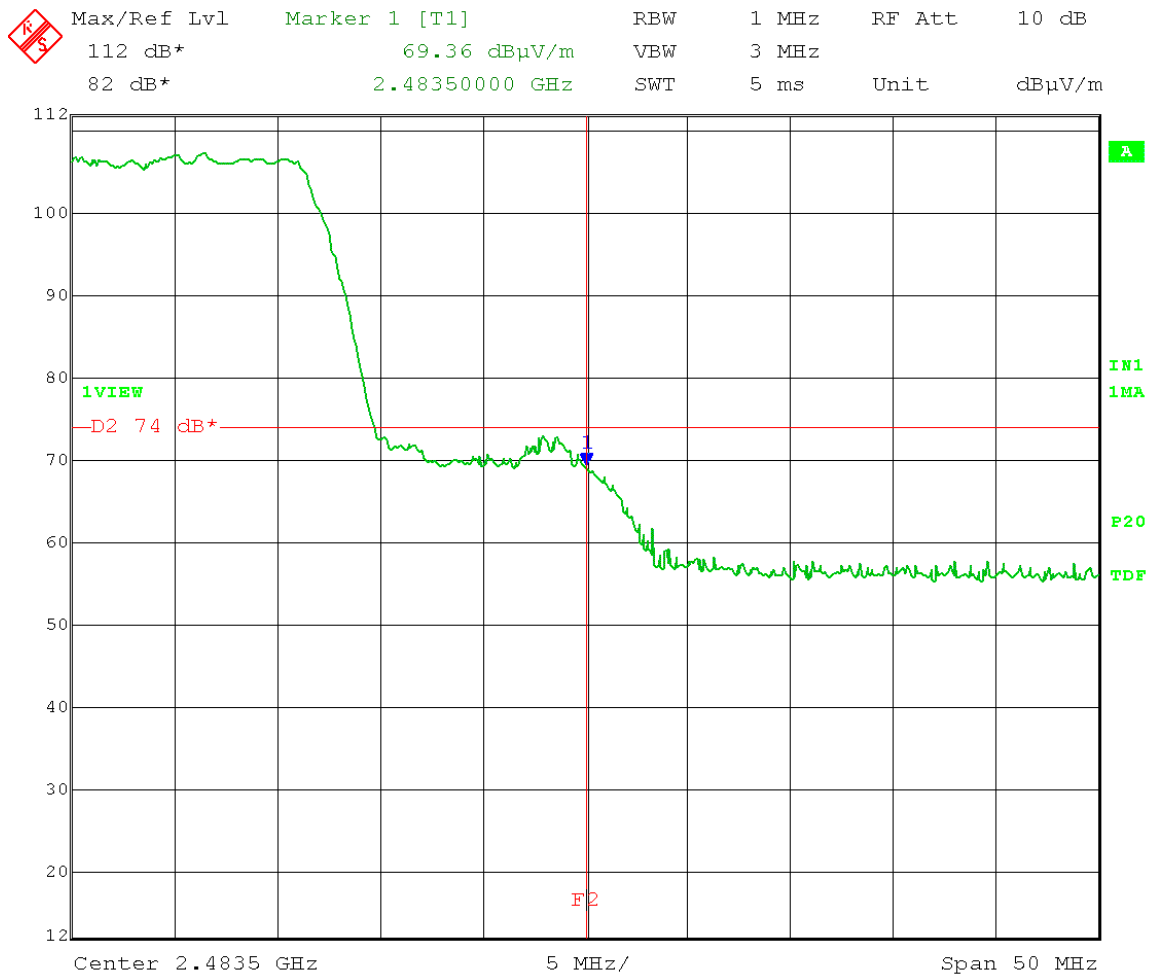
Date: 25.JUL.2016 09:30:11

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: High, 2462 MHz, channel 11
Modulation: 802.11-g, 54 Mbps
Power setting: 10

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



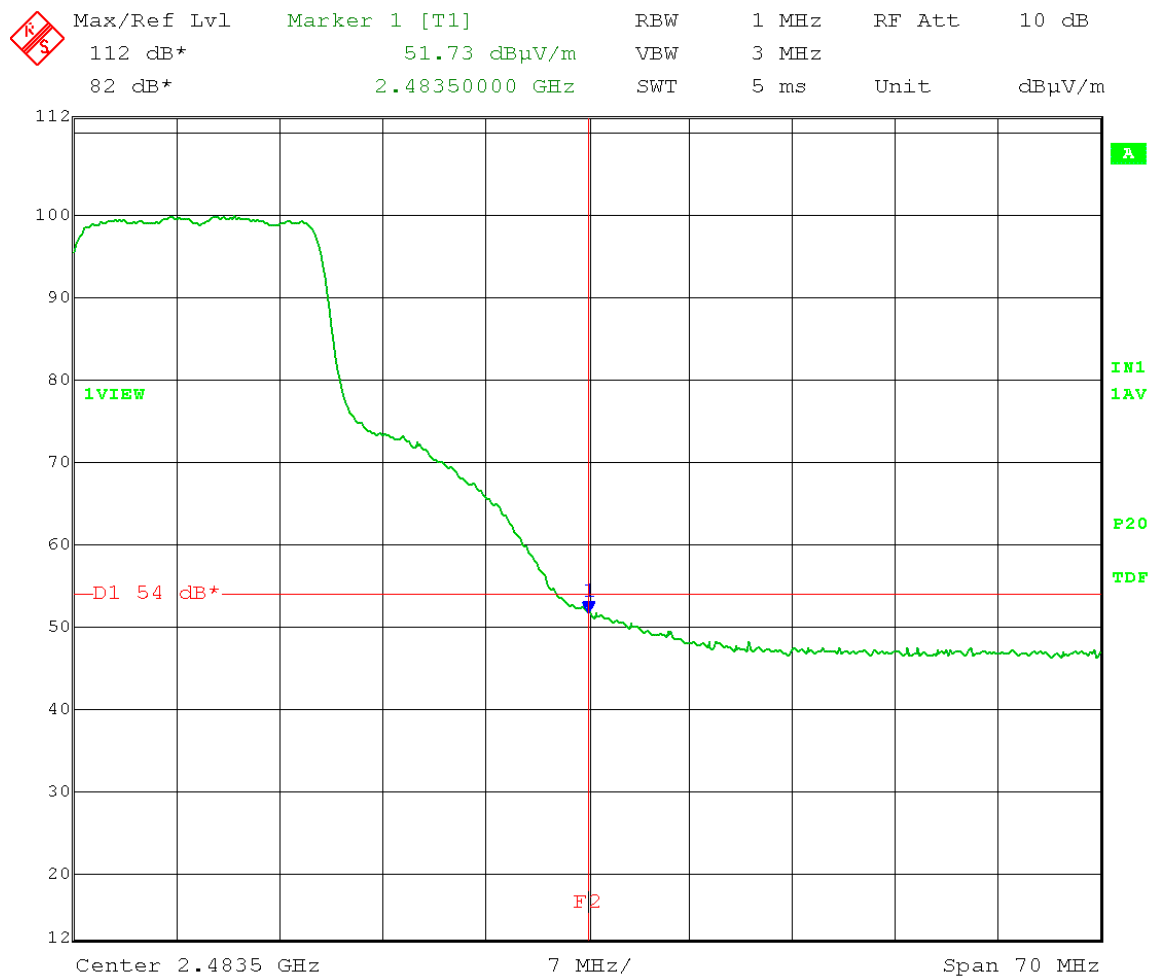
Date: 25.JUL.2016 09:31:39

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2457 MHz, channel 10
Modulation: 802.11-g, 54 Mbps
Power setting: 13

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



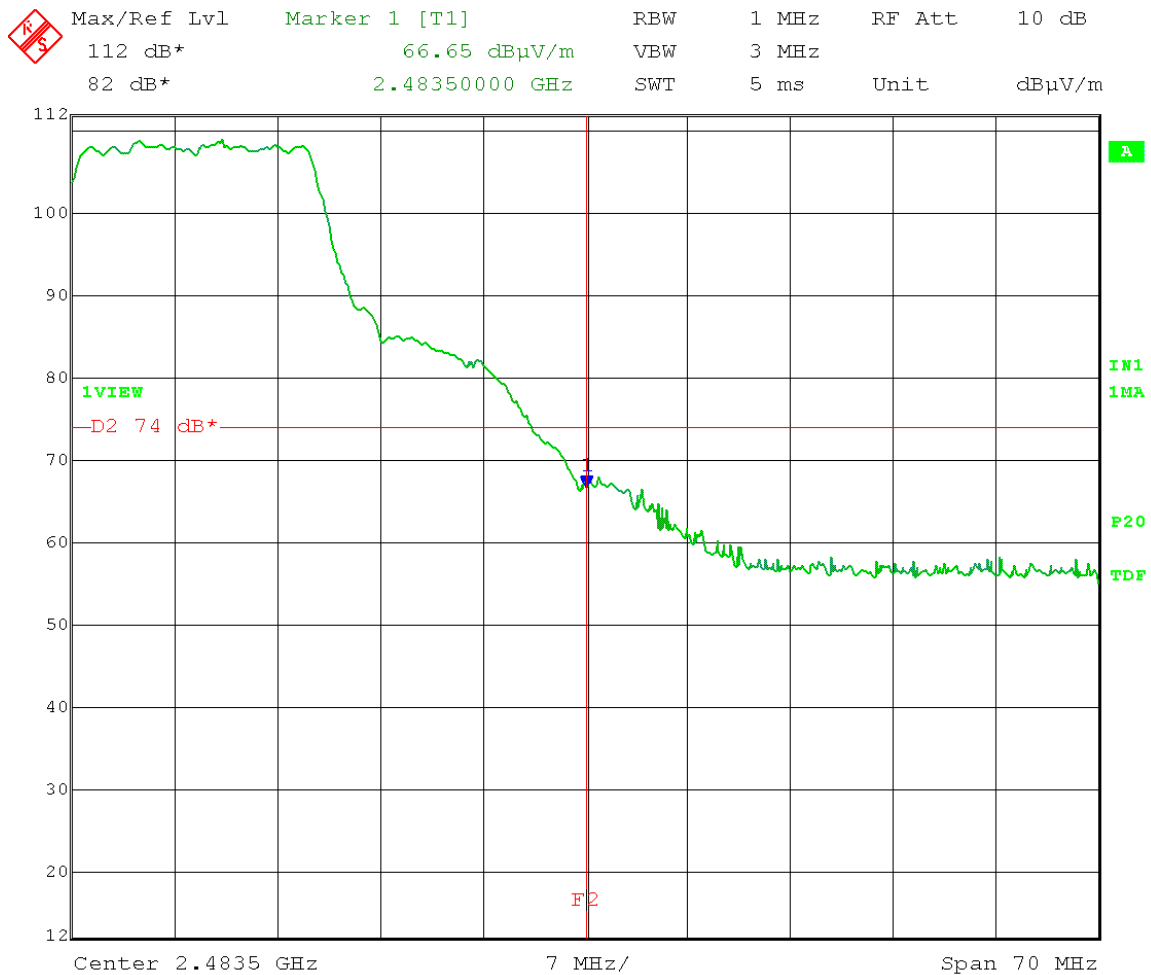
Date: 25.JUL.2016 12:44:14

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2457 MHz, channel 10
Modulation: 802.11-g, 54 Mbps
Power setting: 13

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



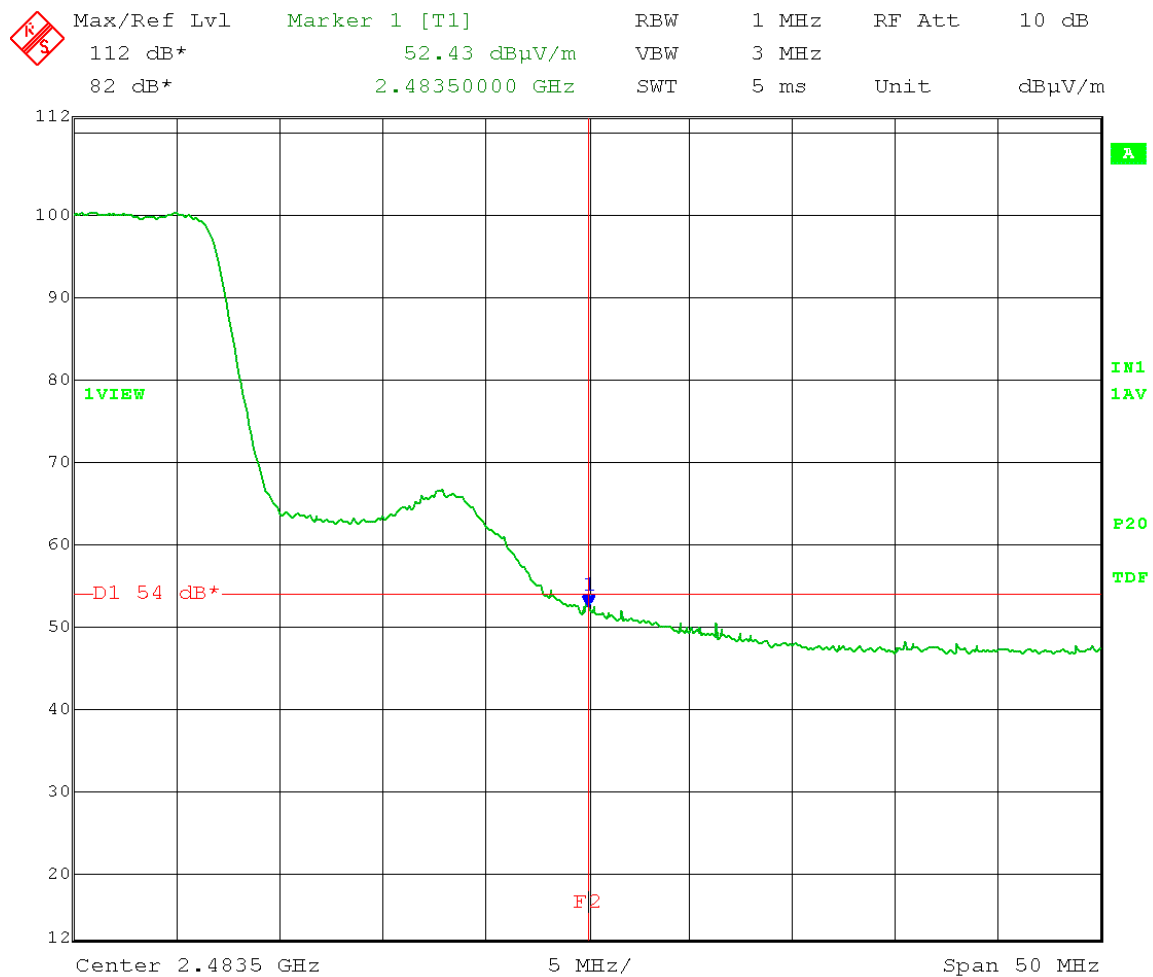
Date: 25.JUL.2016 12:44:47

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2457 MHz, channel 10
Modulation: 802.11-g, 54 Mbps
Power setting: 13

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



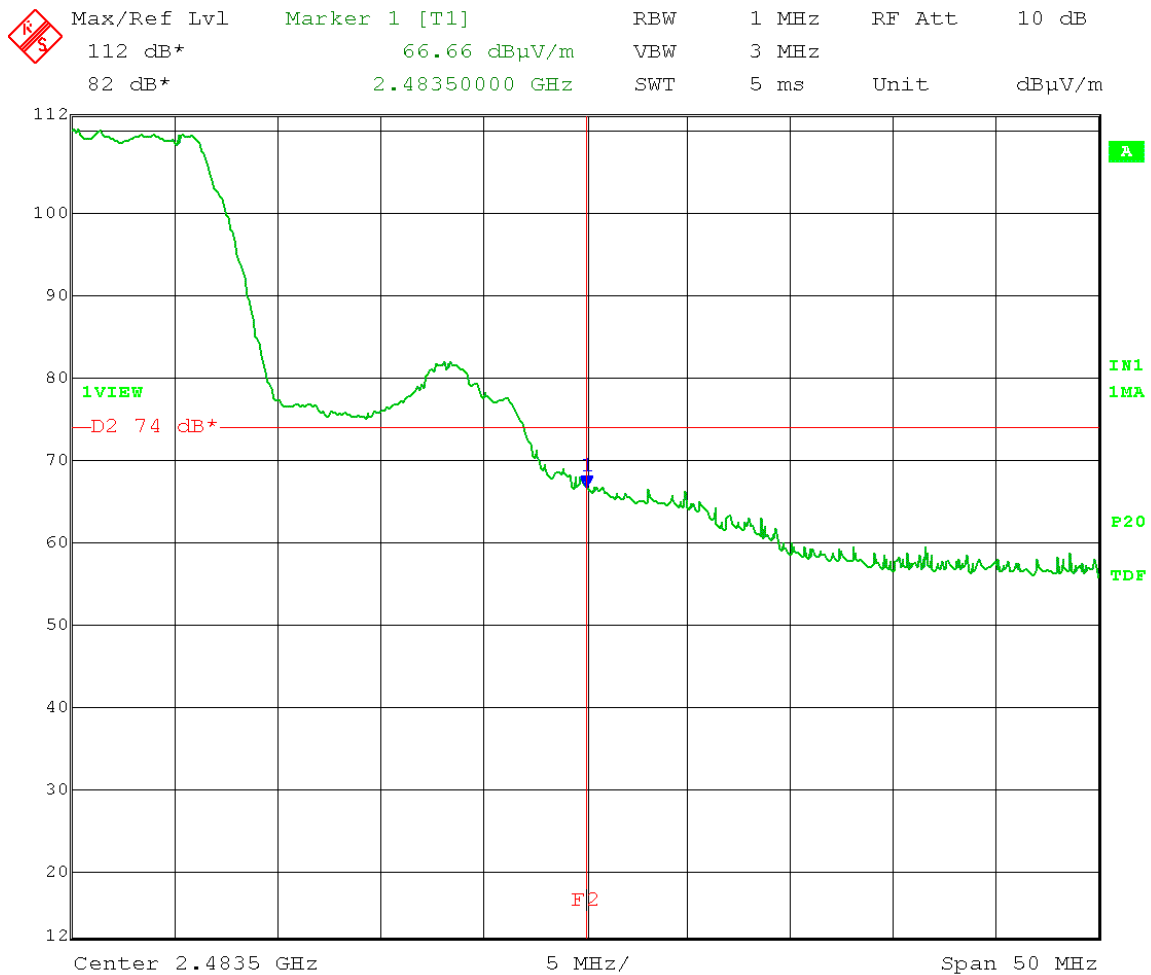
Date: 25.JUL.2016 09:38:40

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2457 MHz, channel 10
Modulation: 802.11-g, 54 Mbps
Power setting: 13

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



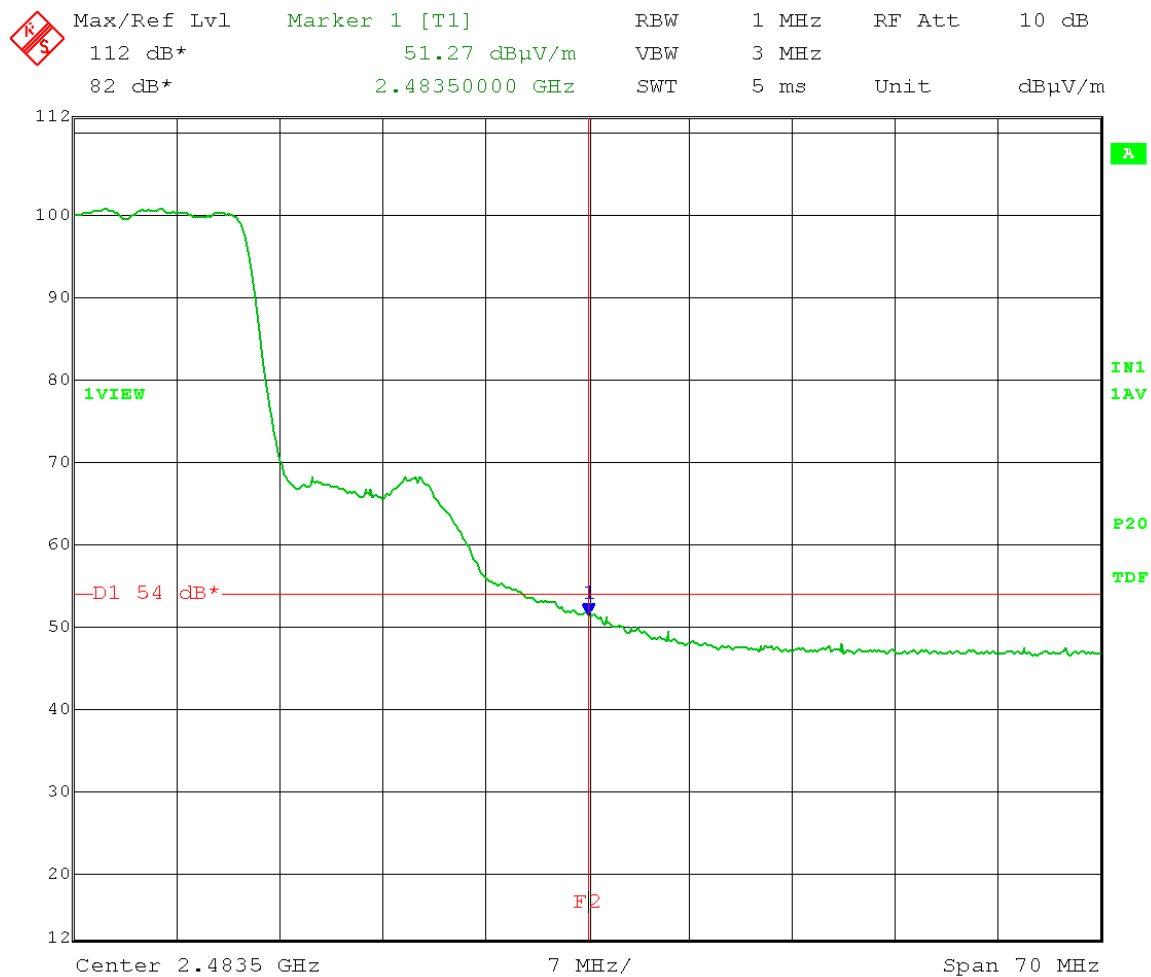
Date: 25.JUL.2016 09:39:33

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2452 MHz, channel 9
Modulation: 802.11-g, 54 Mbps
Power setting: 14

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



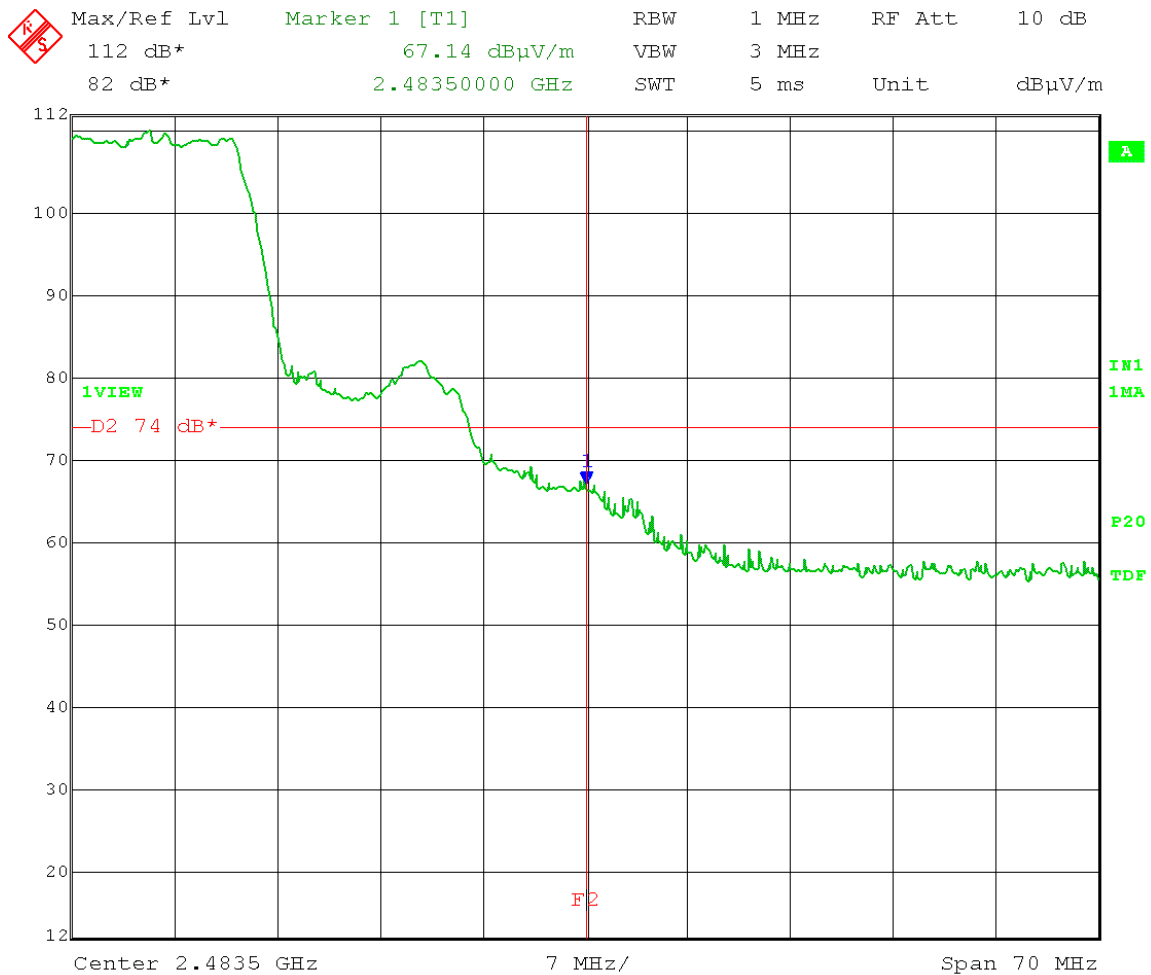
Date: 25.JUL.2016 12:48:32

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2452 MHz, channel 9
Modulation: 802.11-g, 54 Mbps
Power setting: 14

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



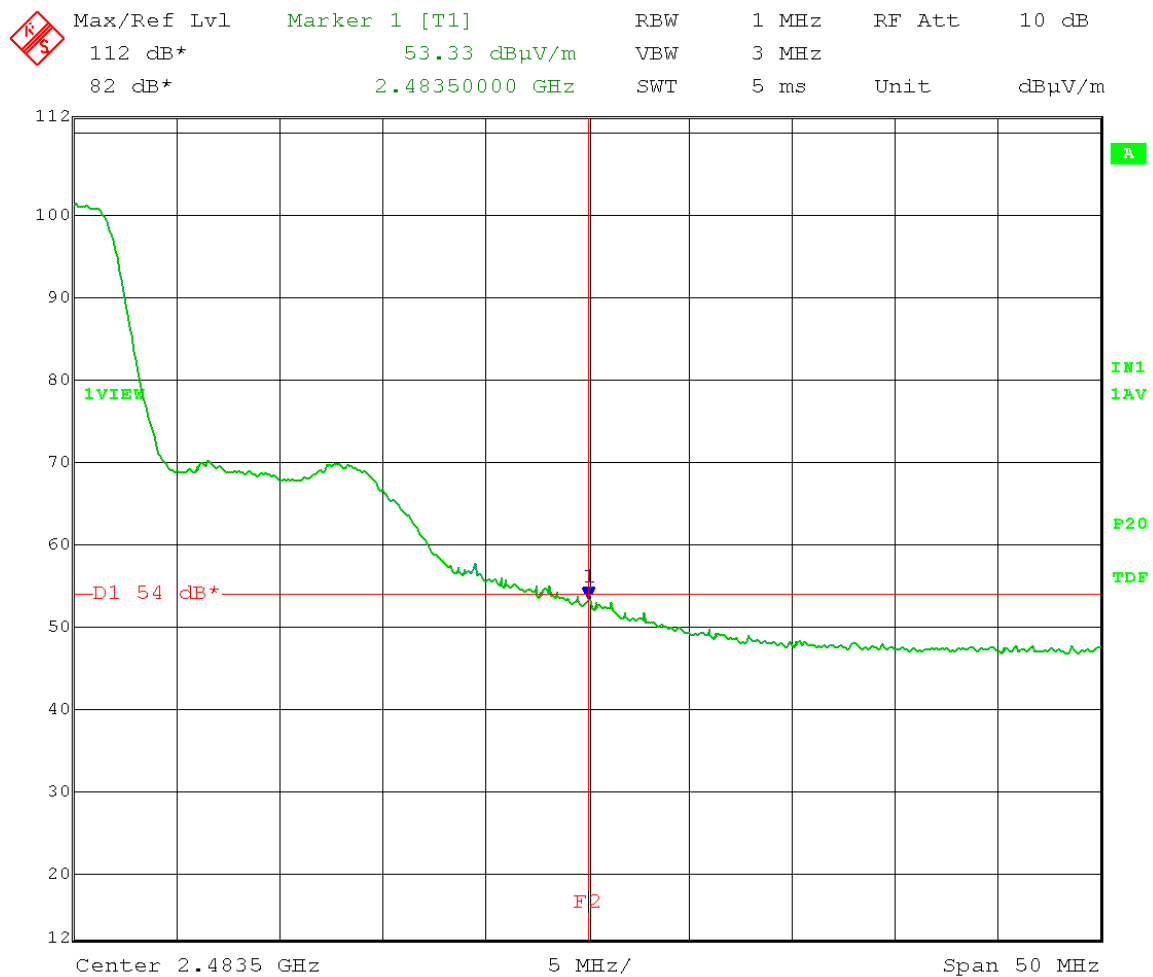
Date: 25.JUL.2016 12:49:00

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2452 MHz, channel 9
Modulation: 802.11-g, 54 Mbps
Power setting: 14

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



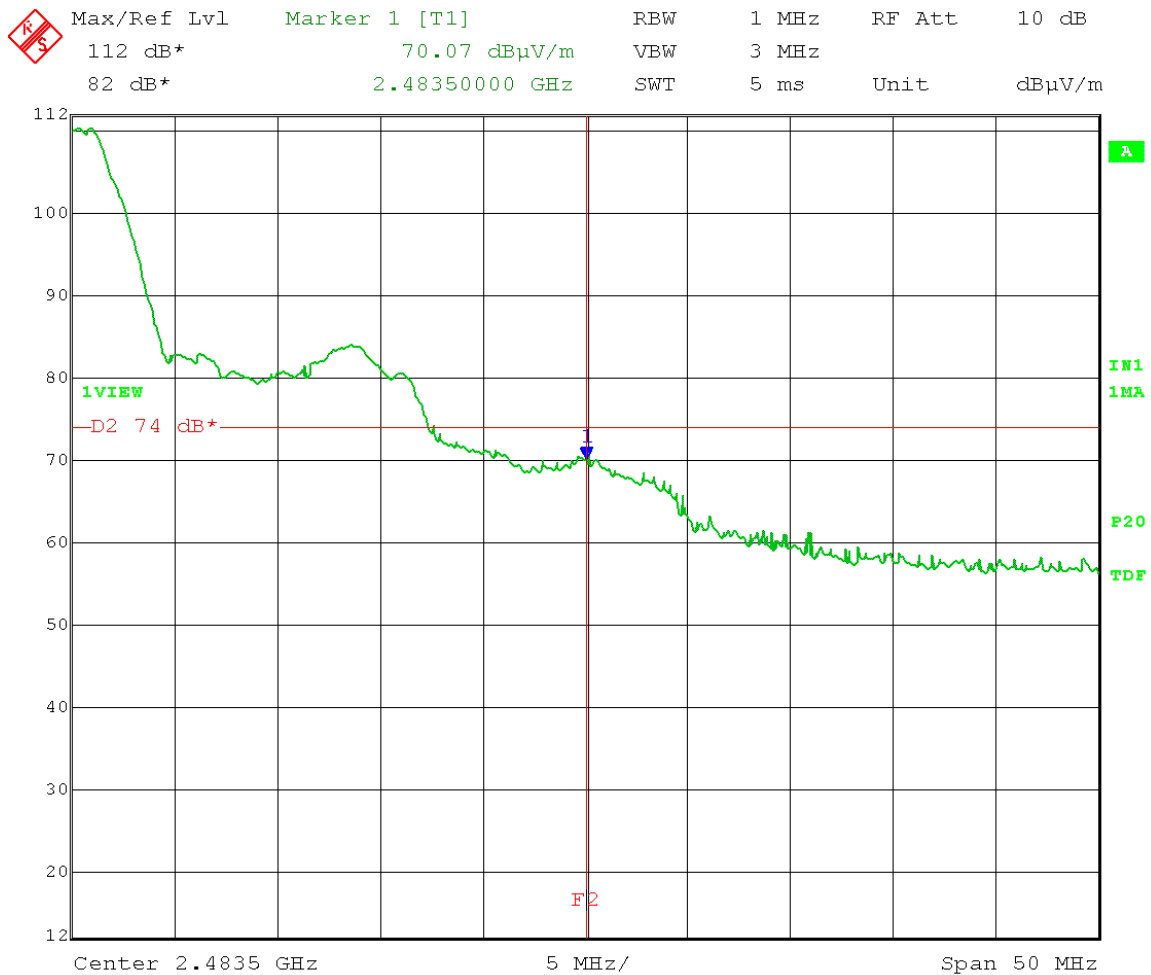
Date: 25.JUL.2016 14:15:18

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2452 MHz, channel 9
Modulation: 802.11-g, 54 Mbps
Power setting: 14

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



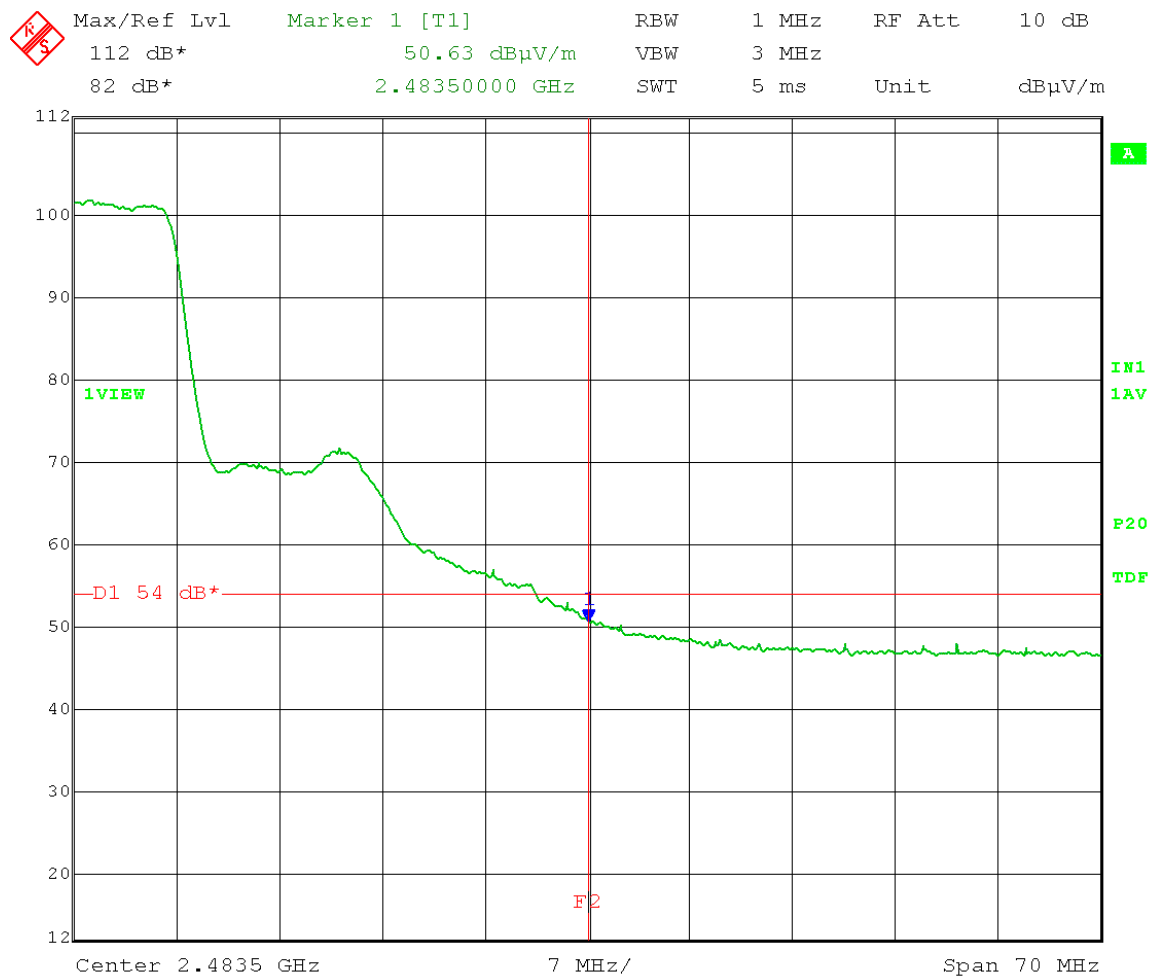
Date: 25.JUL.2016 14:15:49

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2447 MHz, channel 8
Modulation: 802.11-g, 54 Mbps
Power setting: 15

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



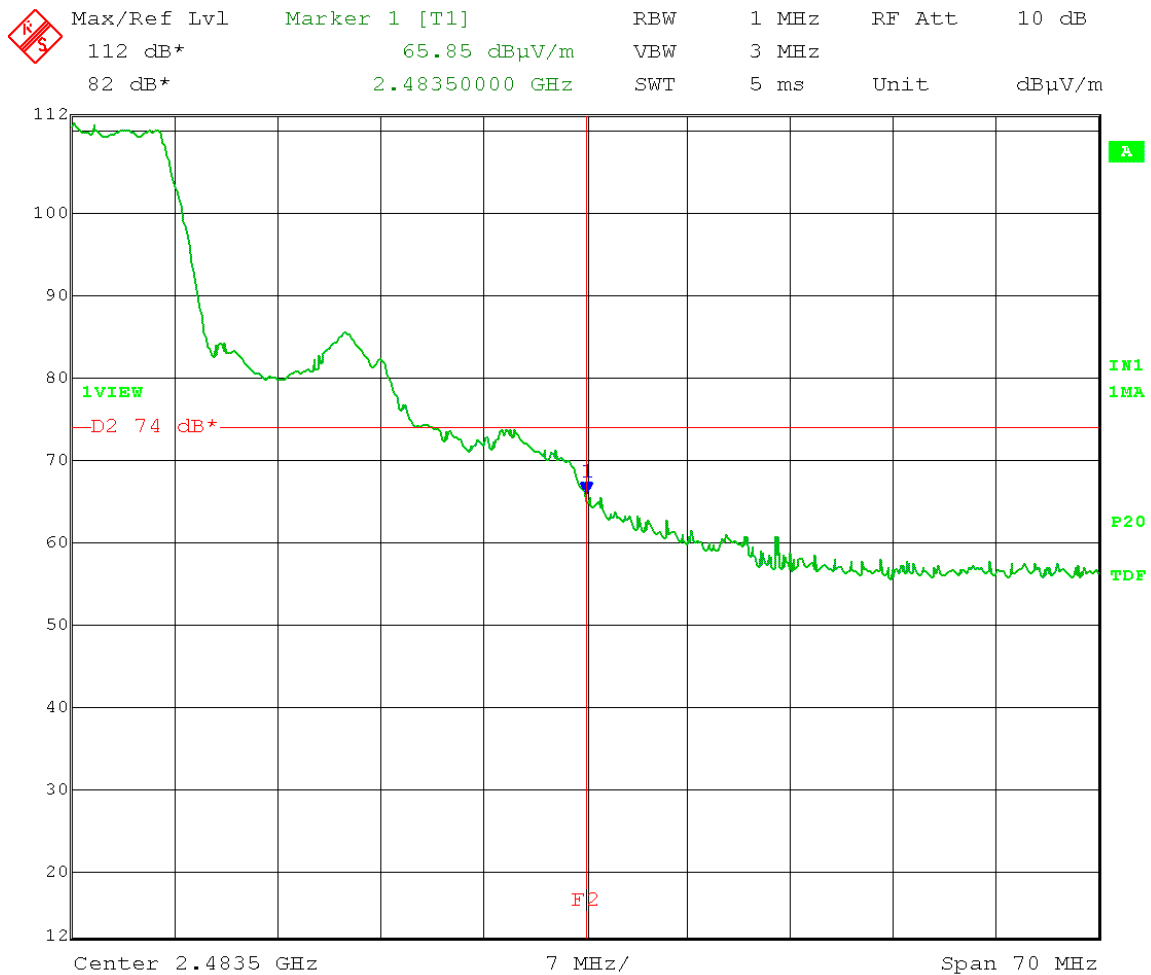
Date: 25.JUL.2016 12:57:18

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2447 MHz, channel 8
Modulation: 802.11-g, 54 Mbps
Power setting: 15

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



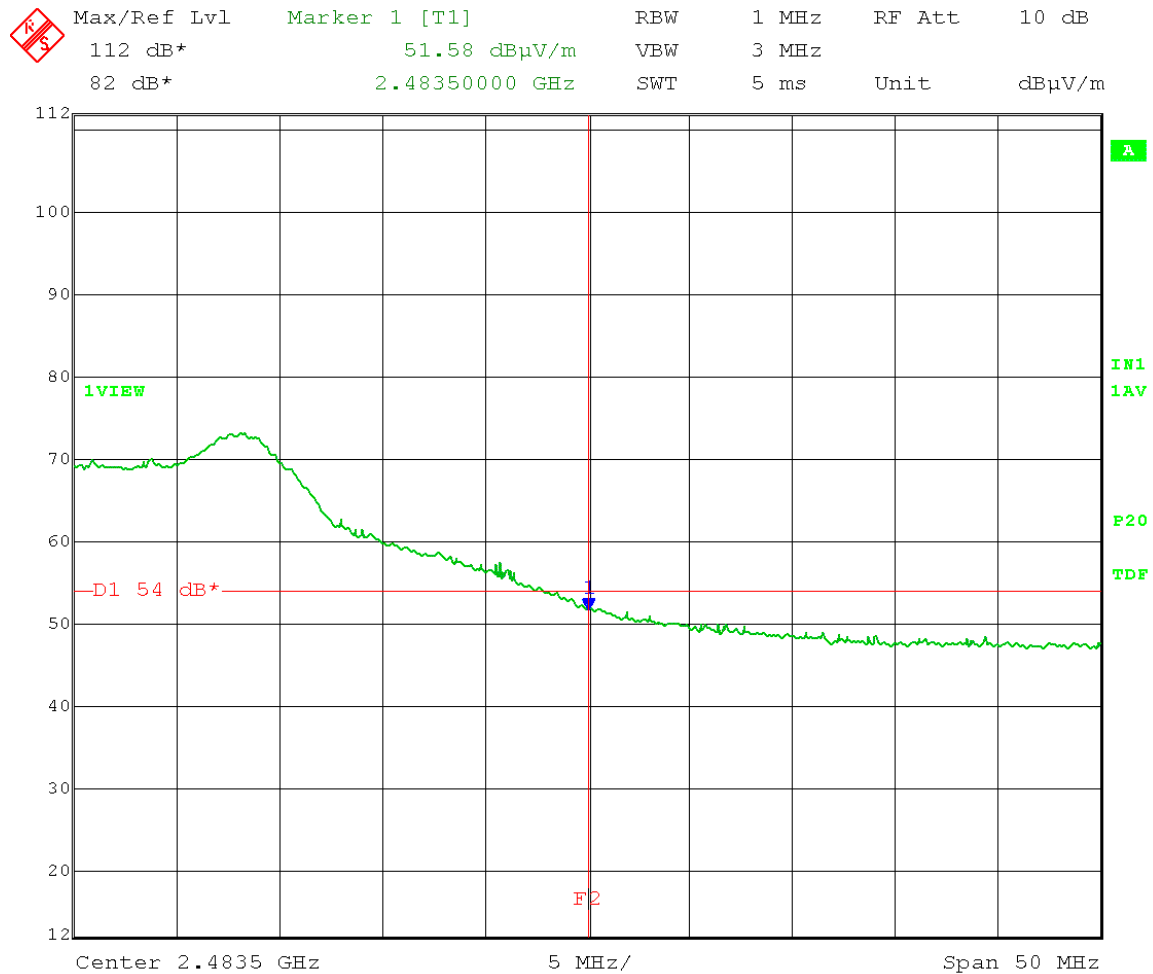
Date: 25.JUL.2016 12:57:43

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2447 MHz, channel 8
Modulation: 802.11-g, 54 Mbps
Power setting: 15

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



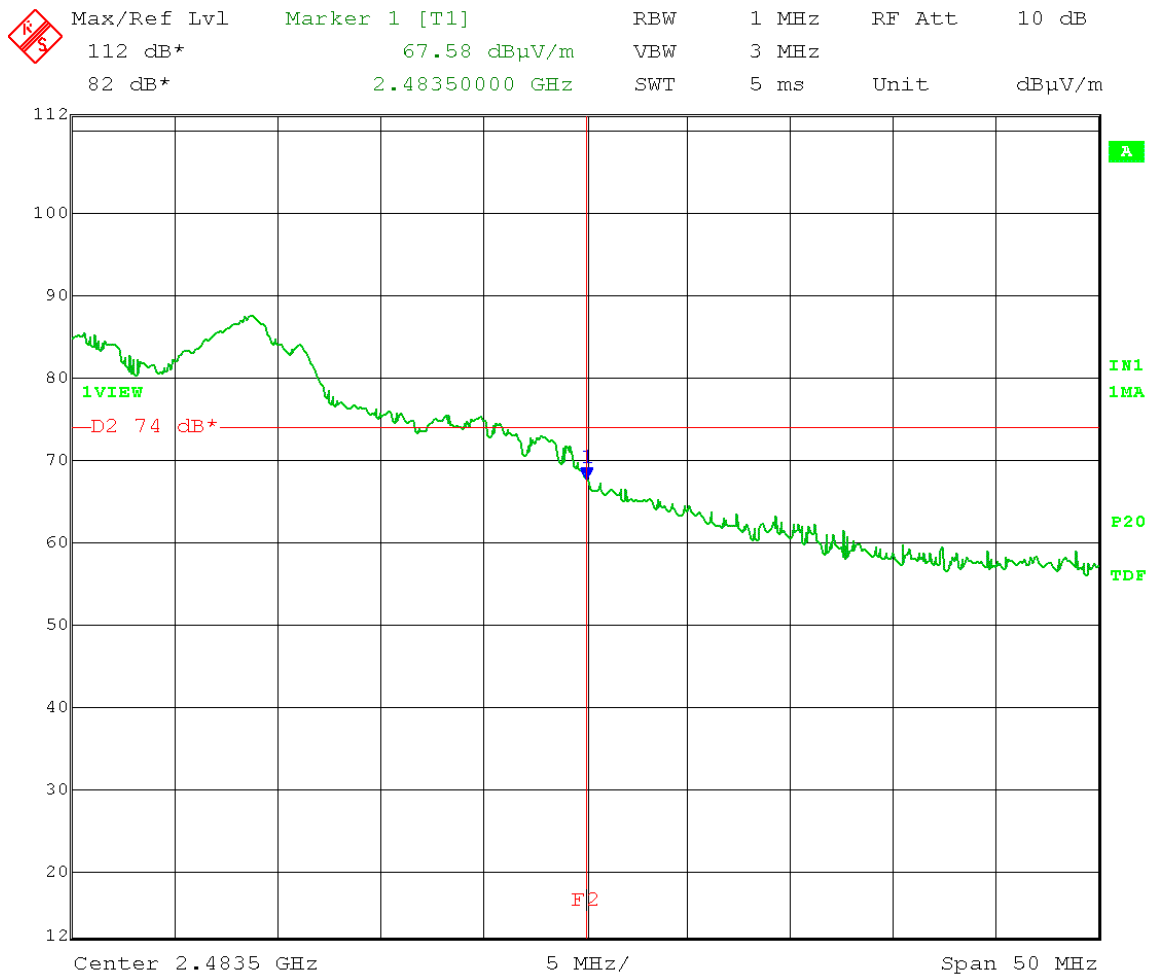
Date: 25.JUL.2016 10:00:41

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2447 MHz, channel 8
Modulation: 802.11-g, 54 Mbps
Power setting: 15

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



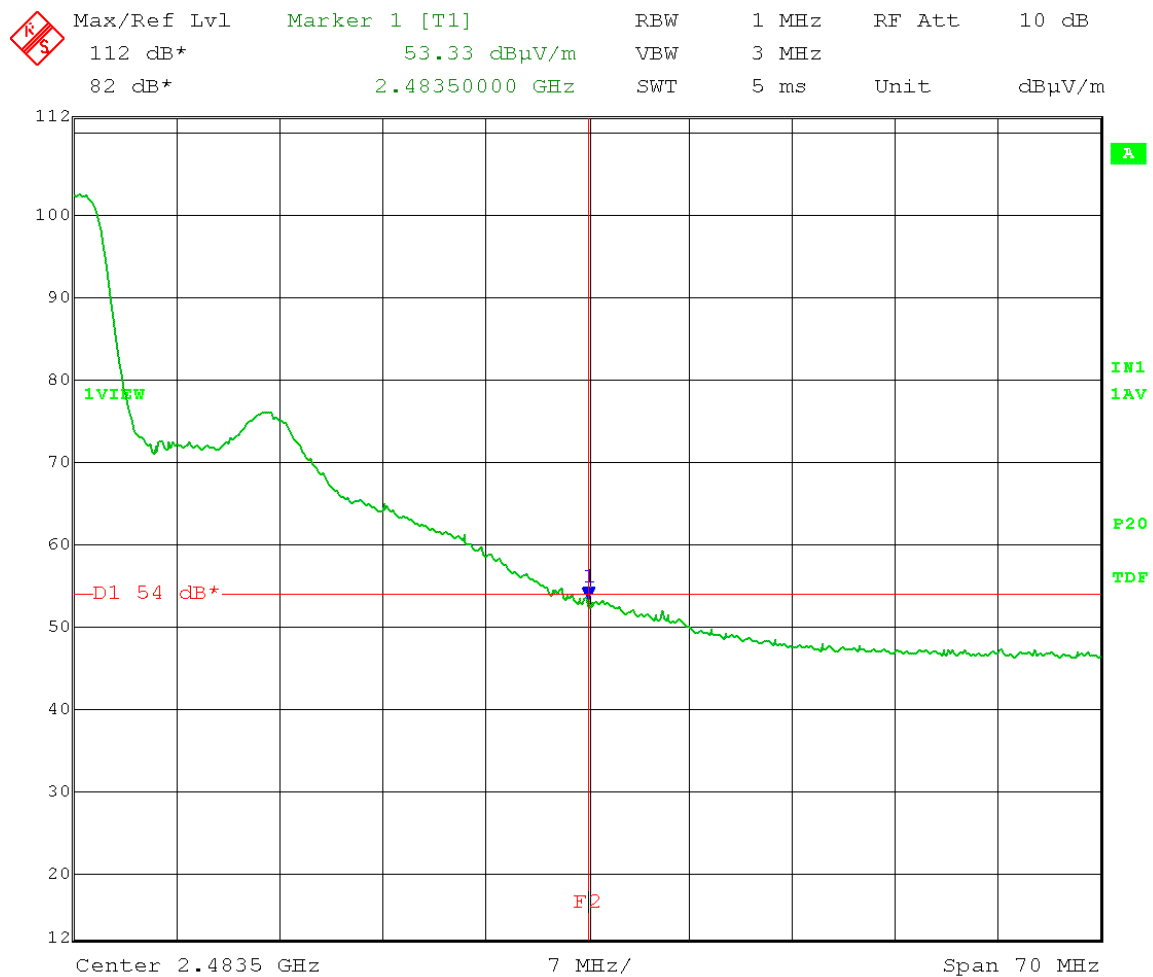
Date: 25.JUL.2016 10:01:12

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2442 MHz, channel 7
Modulation: 802.11-g, 54 Mbps
Power setting: 17

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



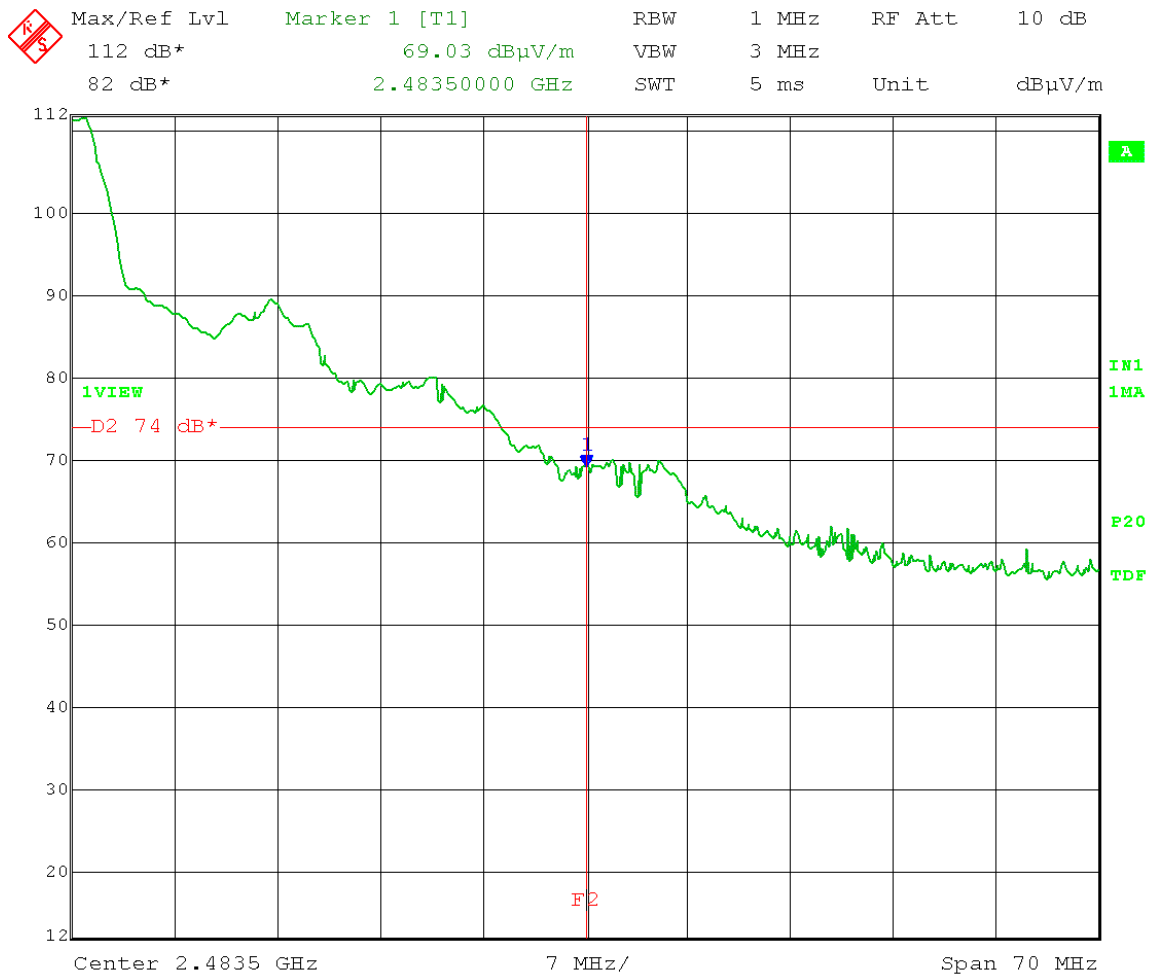
Date: 25.JUL.2016 13:00:08

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2442 MHz, channel 7
Modulation: 802.11-g, 54 Mbps
Power setting: 17

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



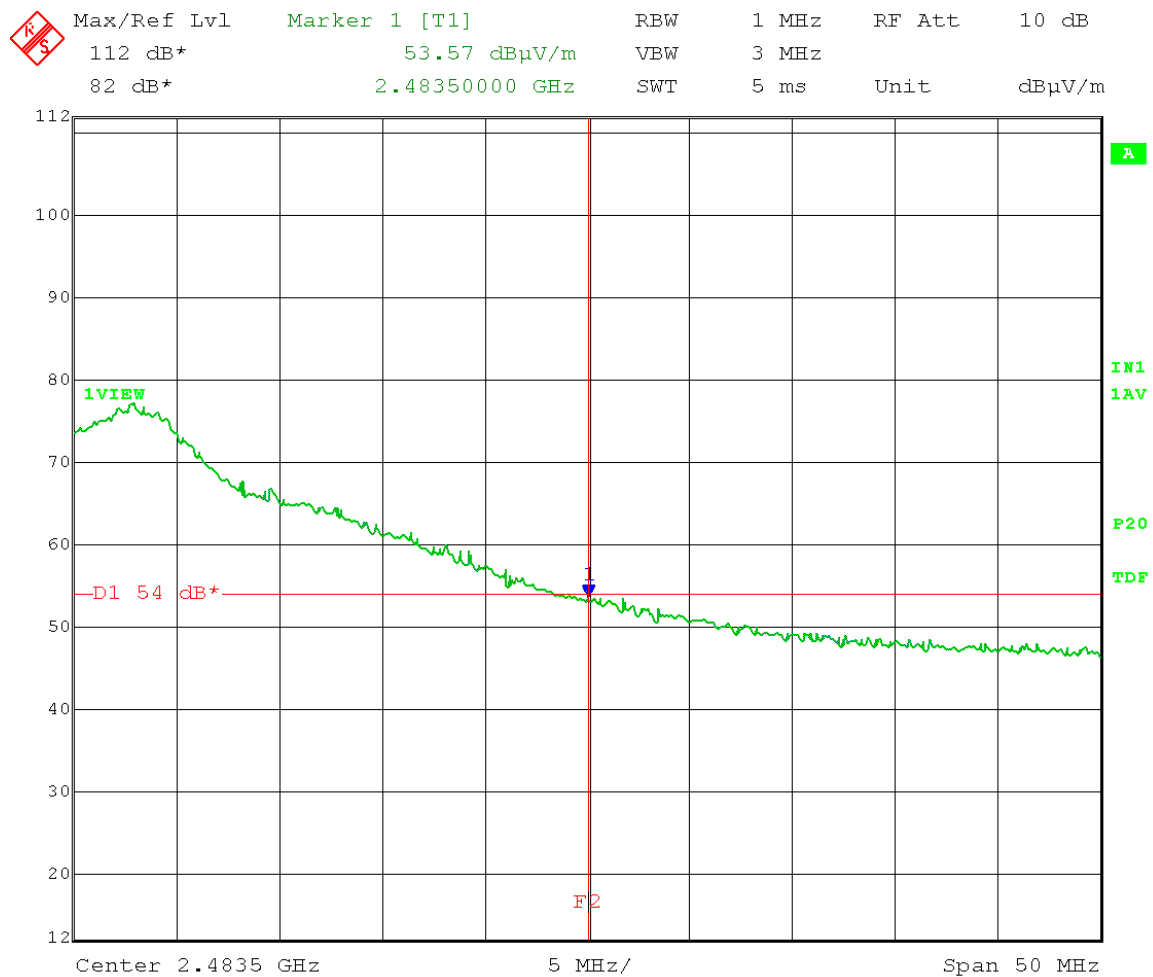
Date: 25.JUL.2016 13:00:45

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2442 MHz, channel 7
Modulation: 802.11-g, 54 Mbps
Power setting: 17

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



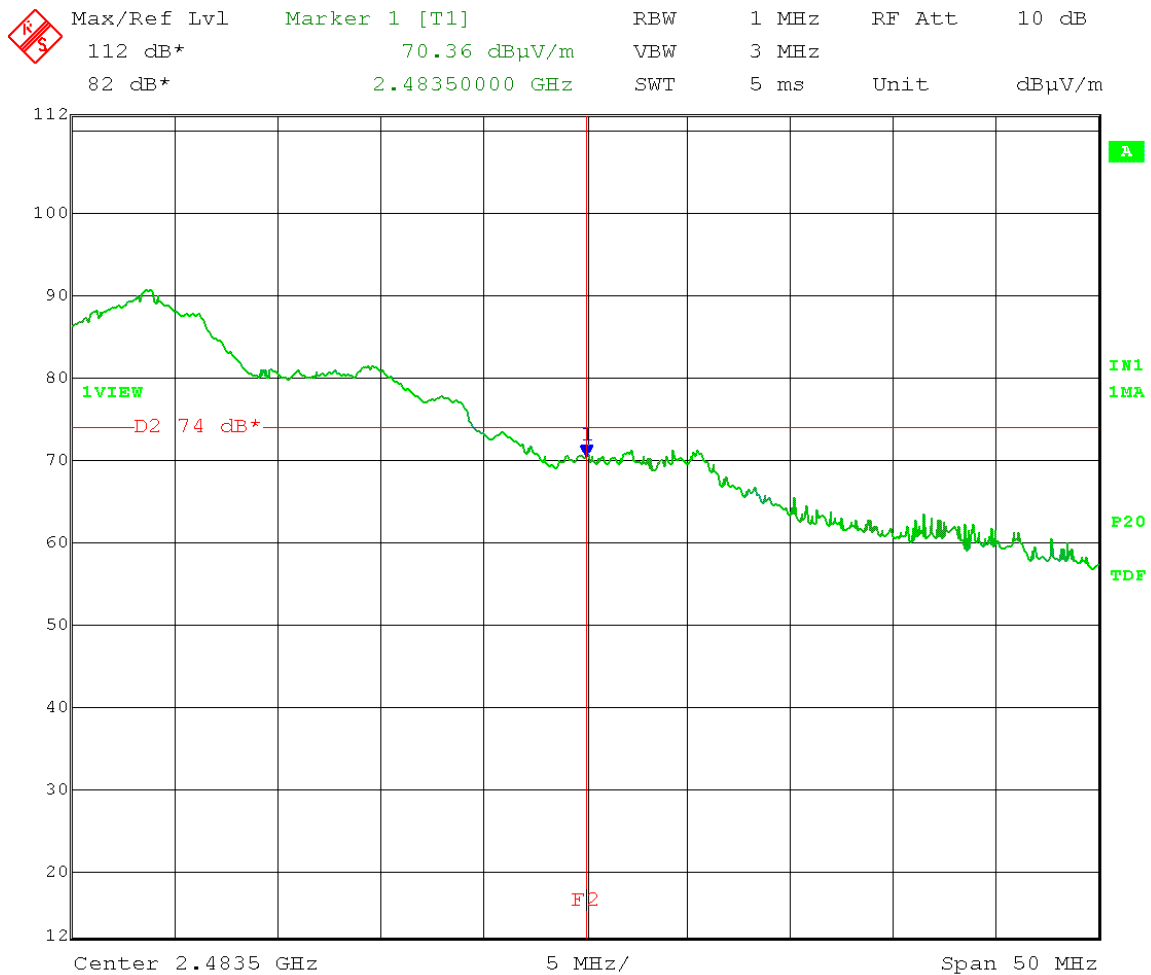
Date: 25.JUL.2016 10:04:25

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2442 MHz, channel 7
Modulation: 802.11-g, 54 Mbps
Power setting: 17

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



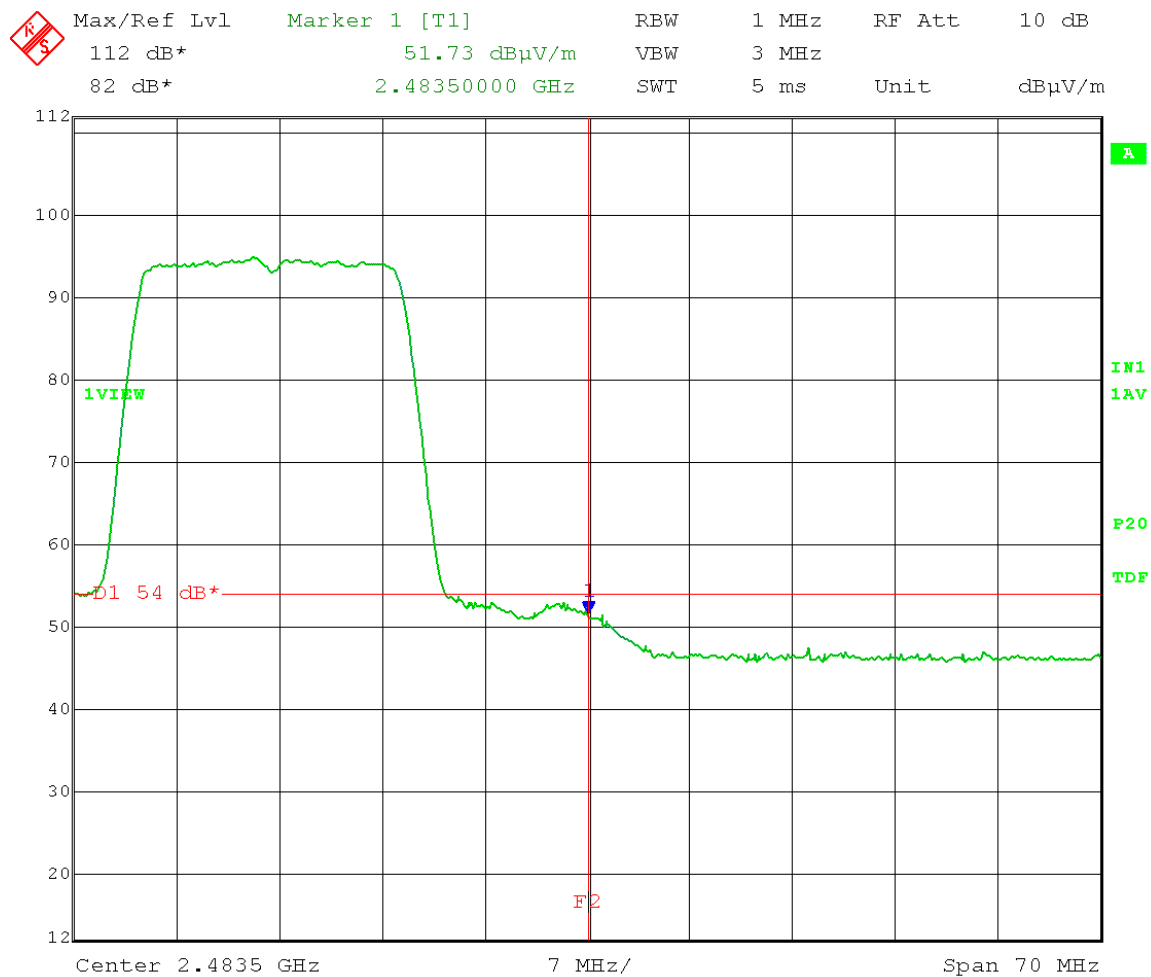
Date: 25.JUL.2016 10:05:24

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: High, 2462 MHz, channel 11
Modulation: 802.11-n, MCS7
Power setting: 8

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



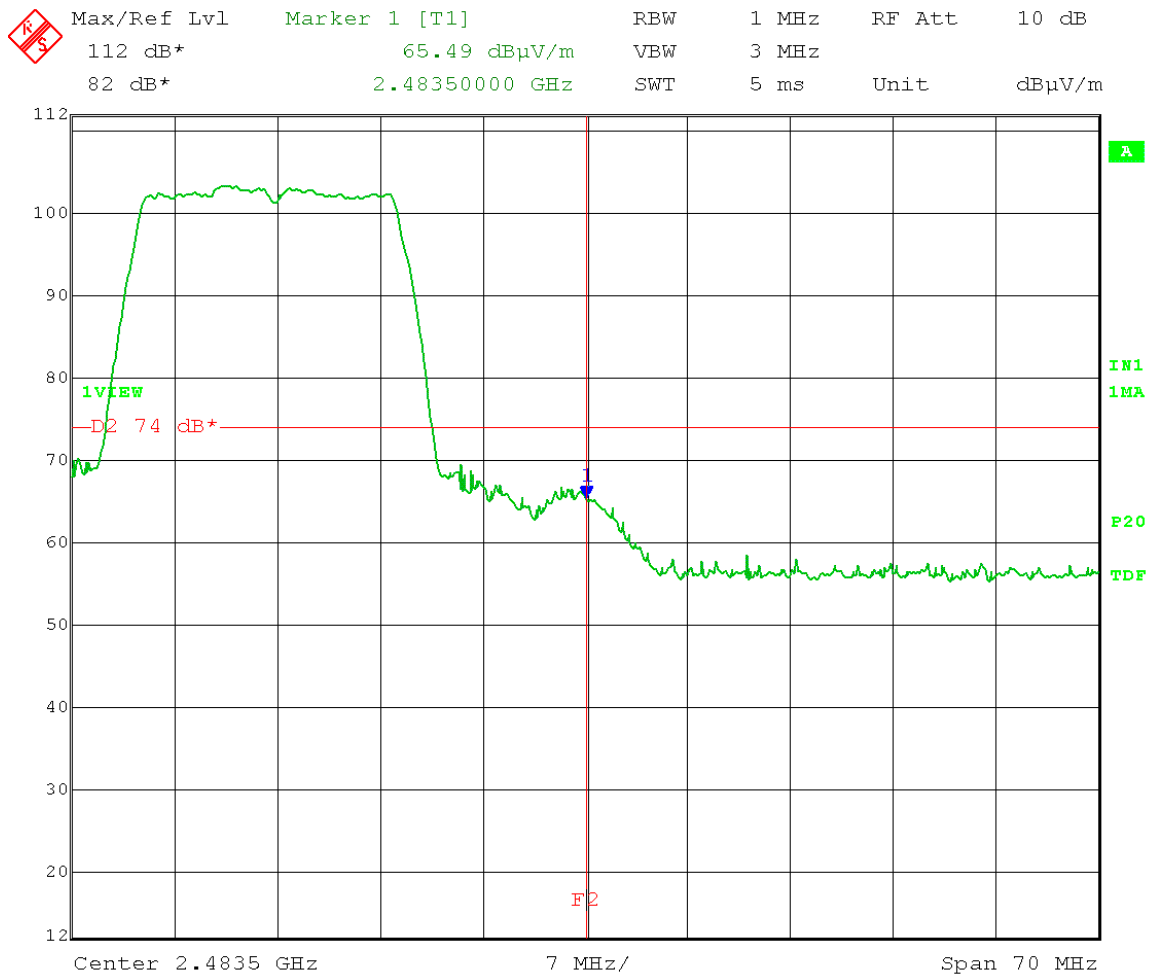
Date: 25.JUL.2016 13:16:37

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: High, 2462 MHz, channel 11
Modulation: 802.11-n, MCS7
Power setting: 8

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



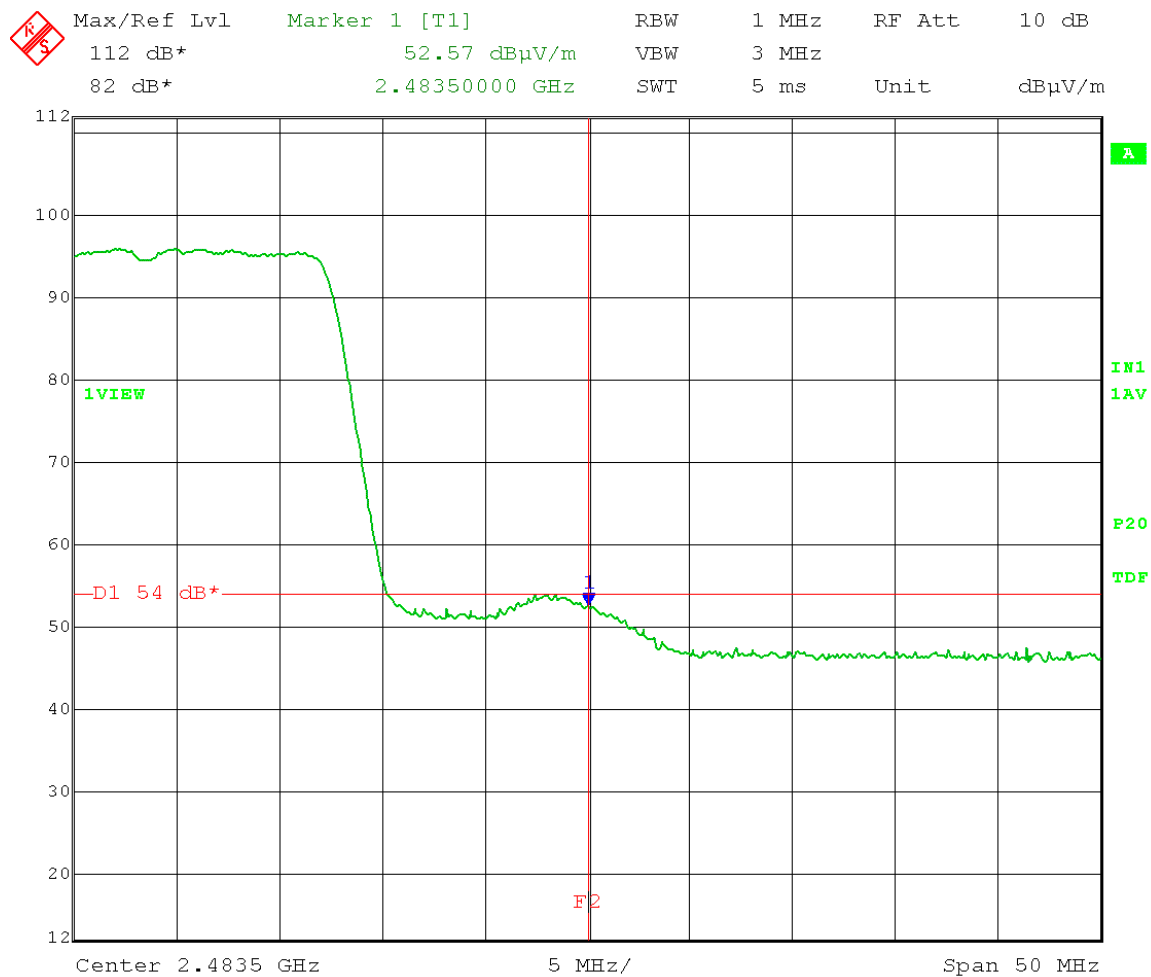
Date: 25.JUL.2016 13:17:08

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: High, 2462 MHz, channel 11
Modulation: 802.11-n, MCS7
Power setting: 8

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



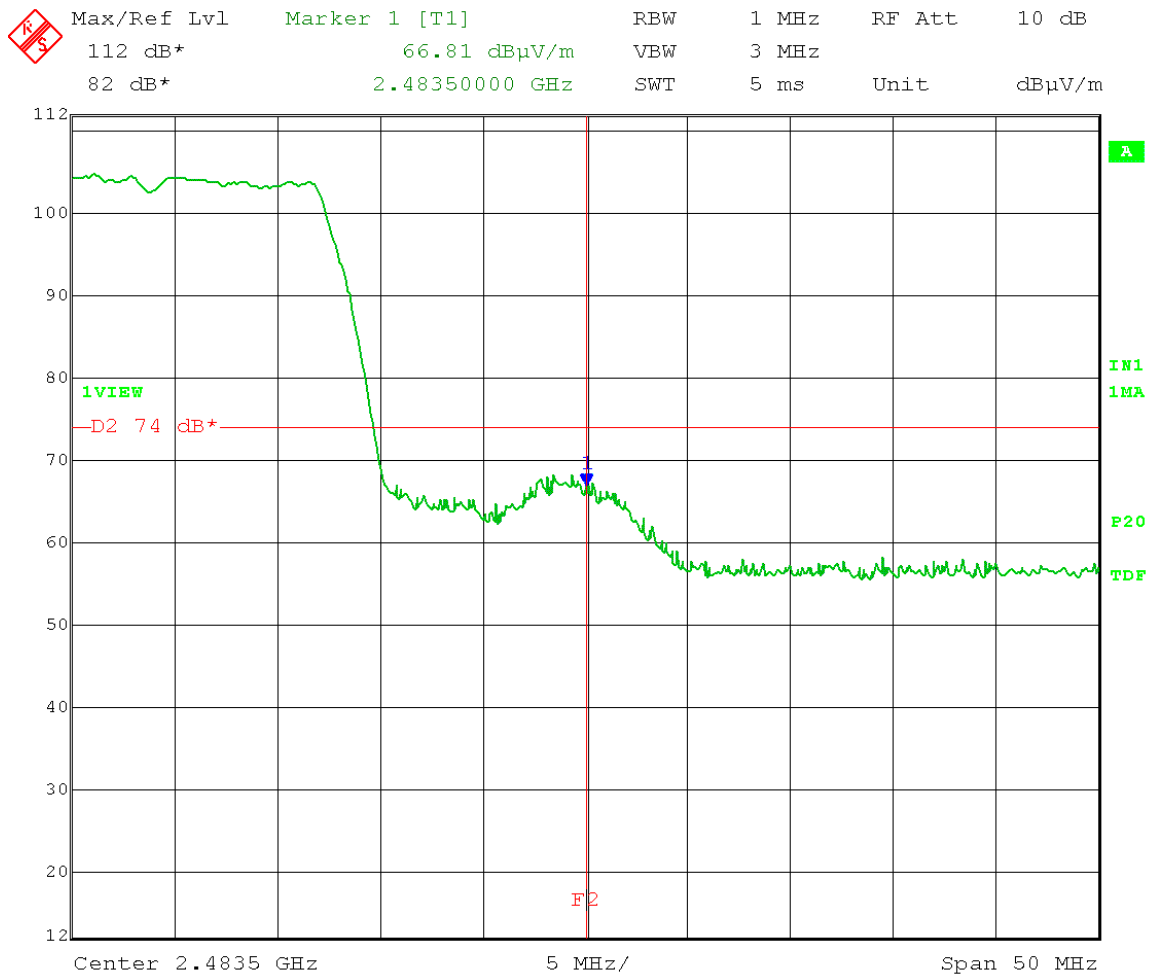
Date: 25.JUL.2016 10:09:44

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: High, 2462 MHz, channel 11
Modulation: 802.11-n, MCS7
Power setting: 8

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



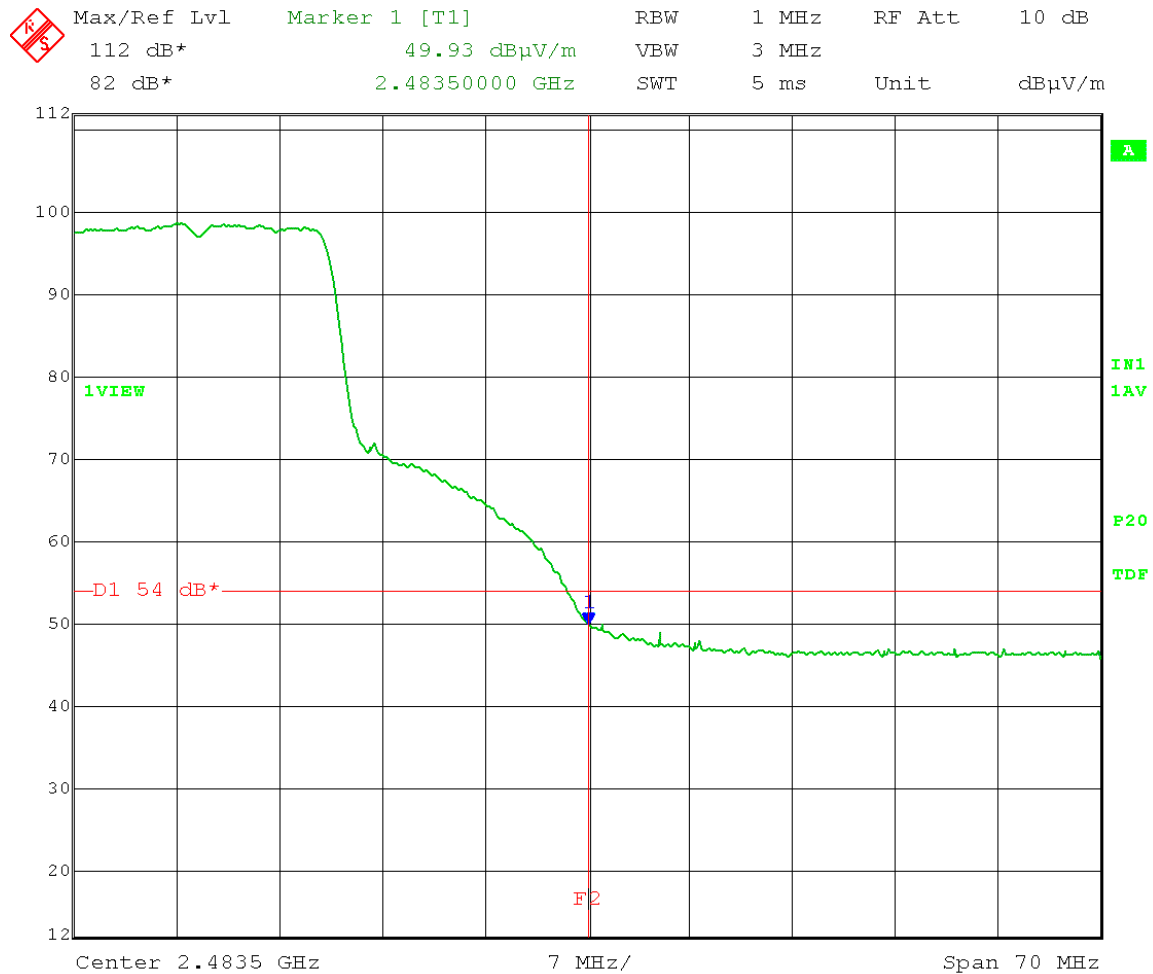
Date: 25.JUL.2016 10:10:47

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2457 MHz, channel 10
Modulation: 802.11-n, MCS7
Power setting: 12

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



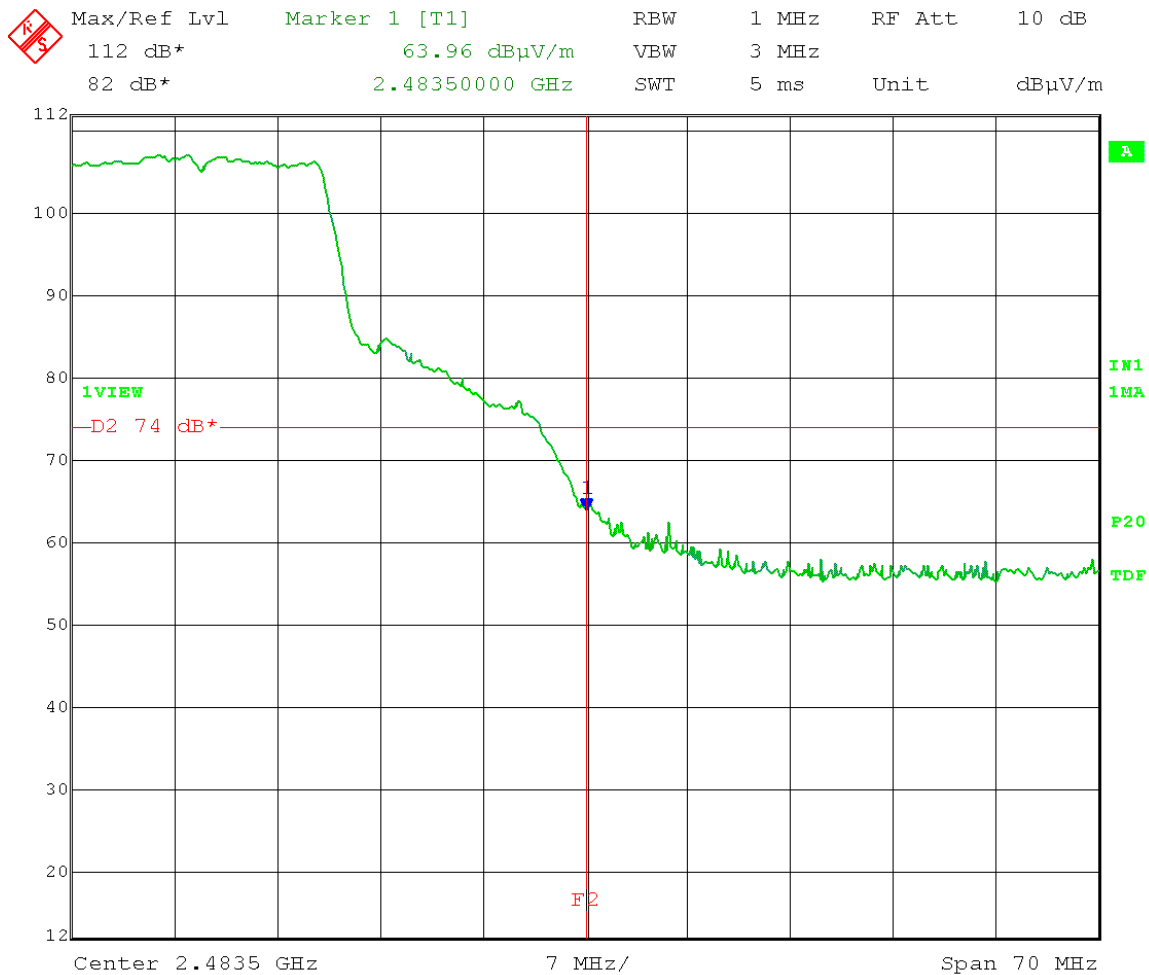
Date: 25.JUL.2016 13:18:56

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2457 MHz, channel 10
Modulation: 802.11-n, MCS7
Power setting: 12

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



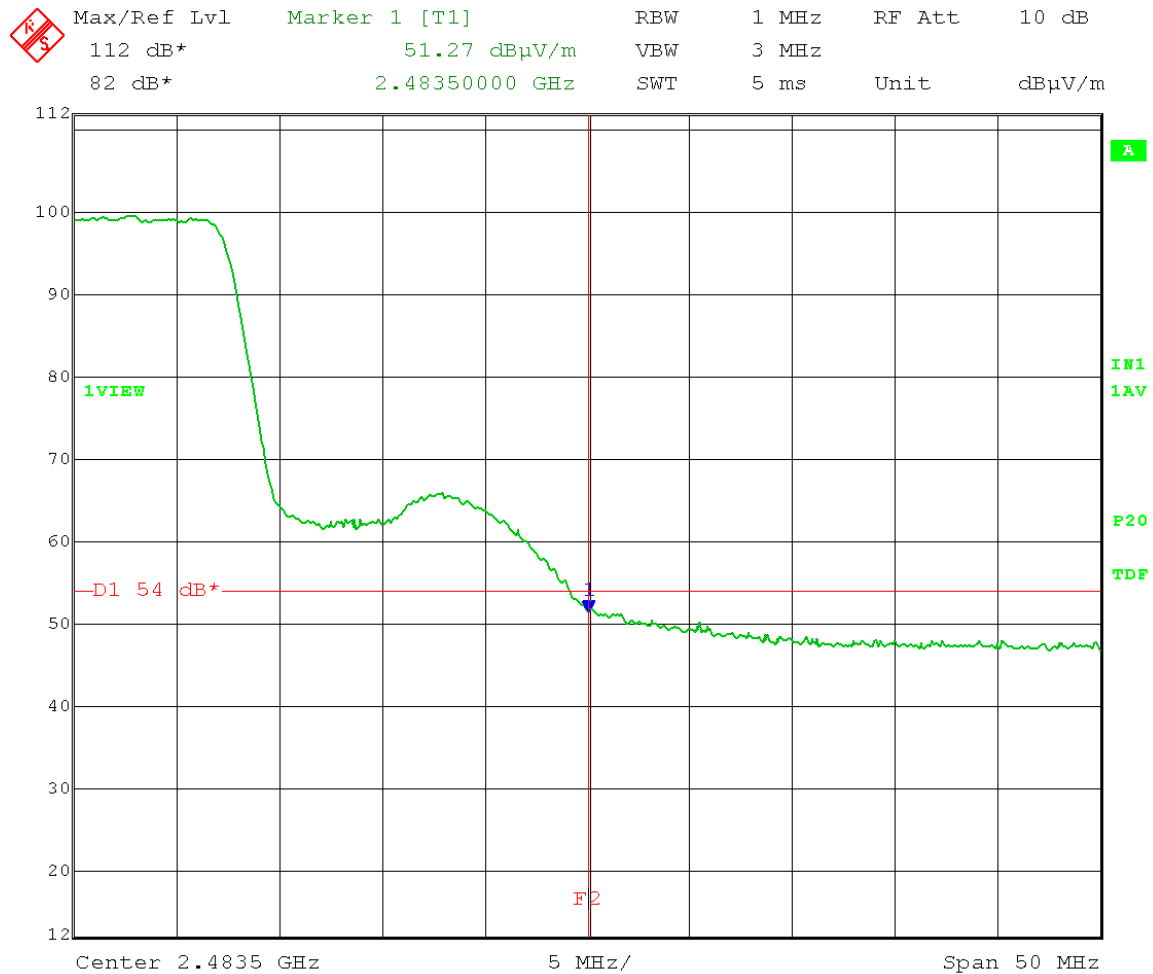
Date: 25.JUL.2016 13:19:23

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2457 MHz, channel 10
Modulation: 802.11-n, MCS7
Power setting: 12

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



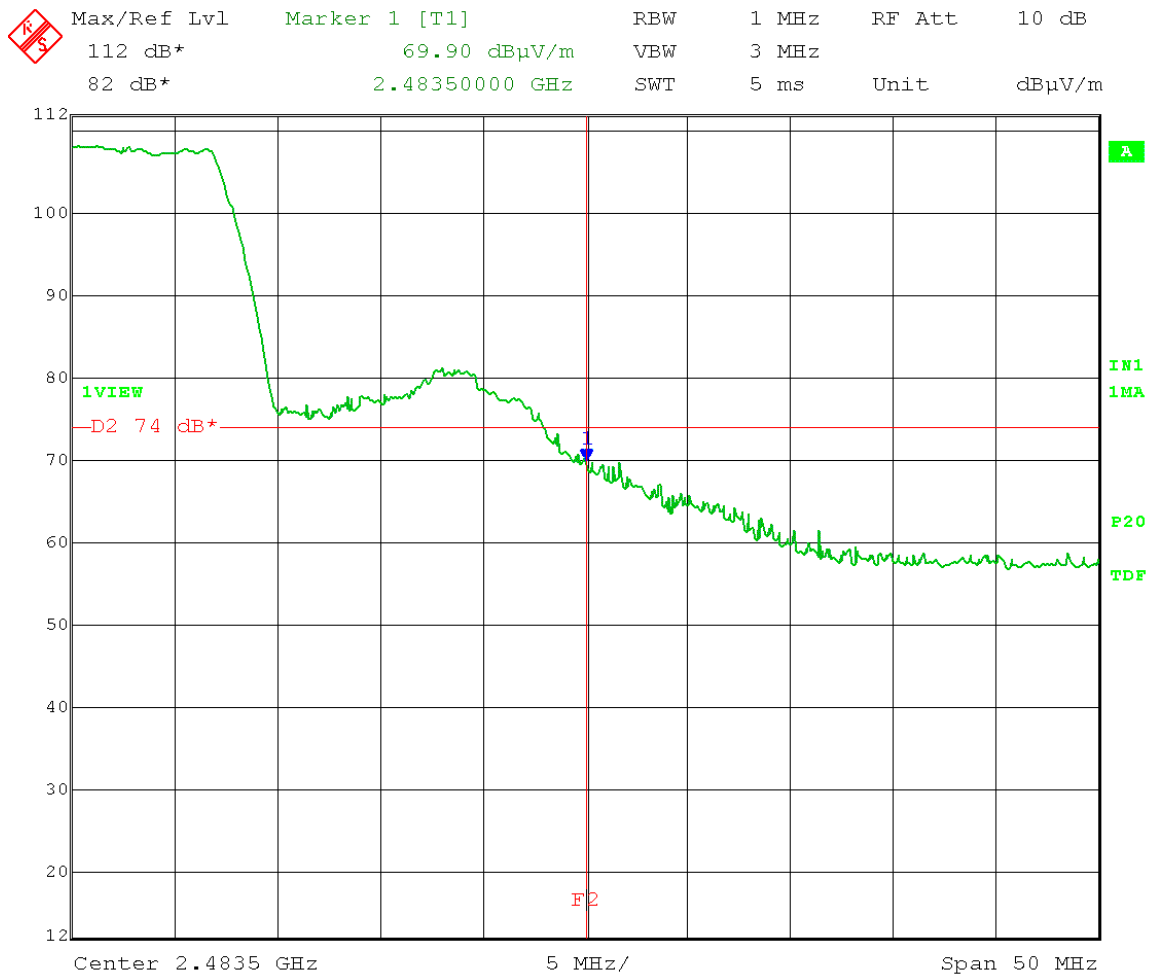
Date: 25.JUL.2016 10:14:54

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2457 MHz, channel 10
Modulation: 802.11-n, MCS7
Power setting: 12

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



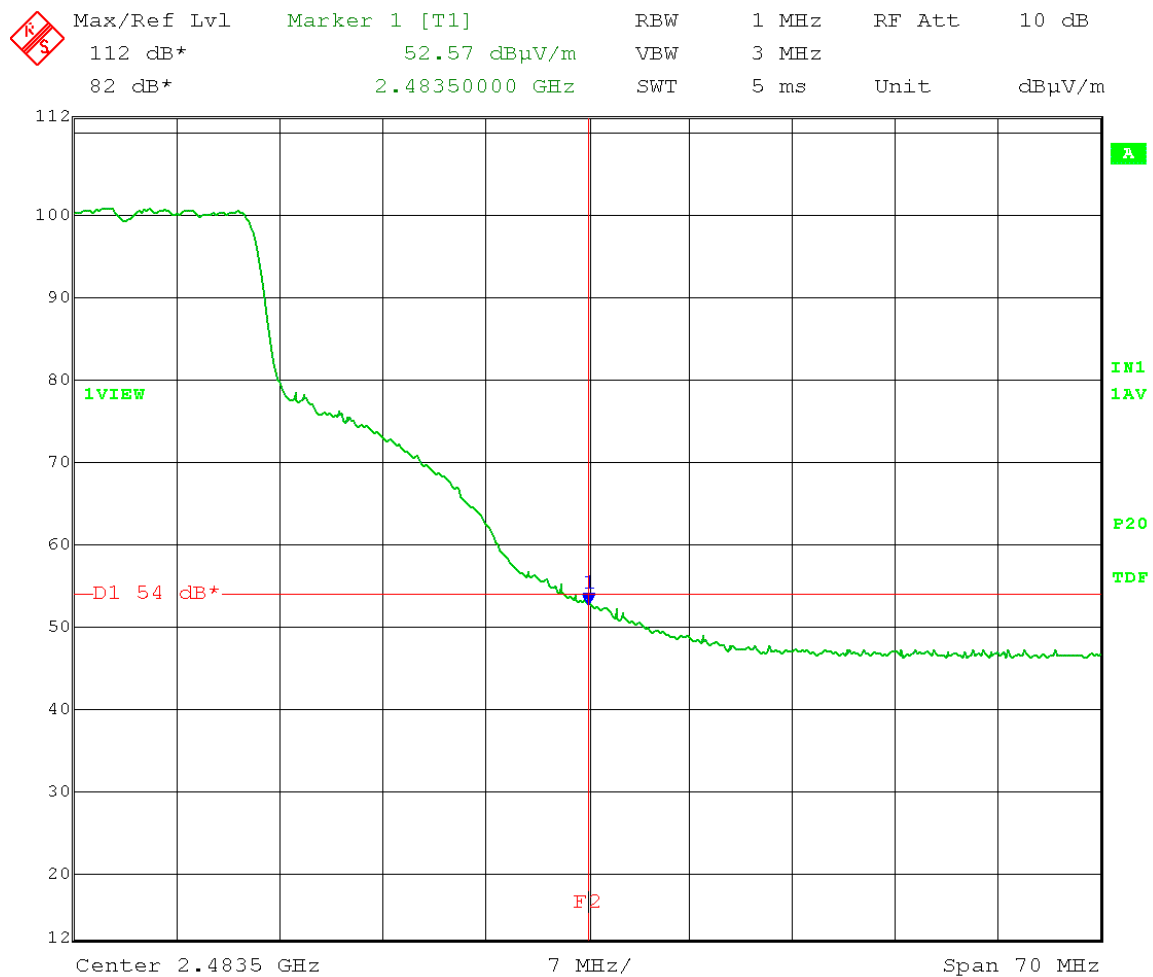
Date: 25.JUL.2016 10:16:19

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2452 MHz, channel 9
Modulation: 802.11-n, MCS7
Power setting: 14

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



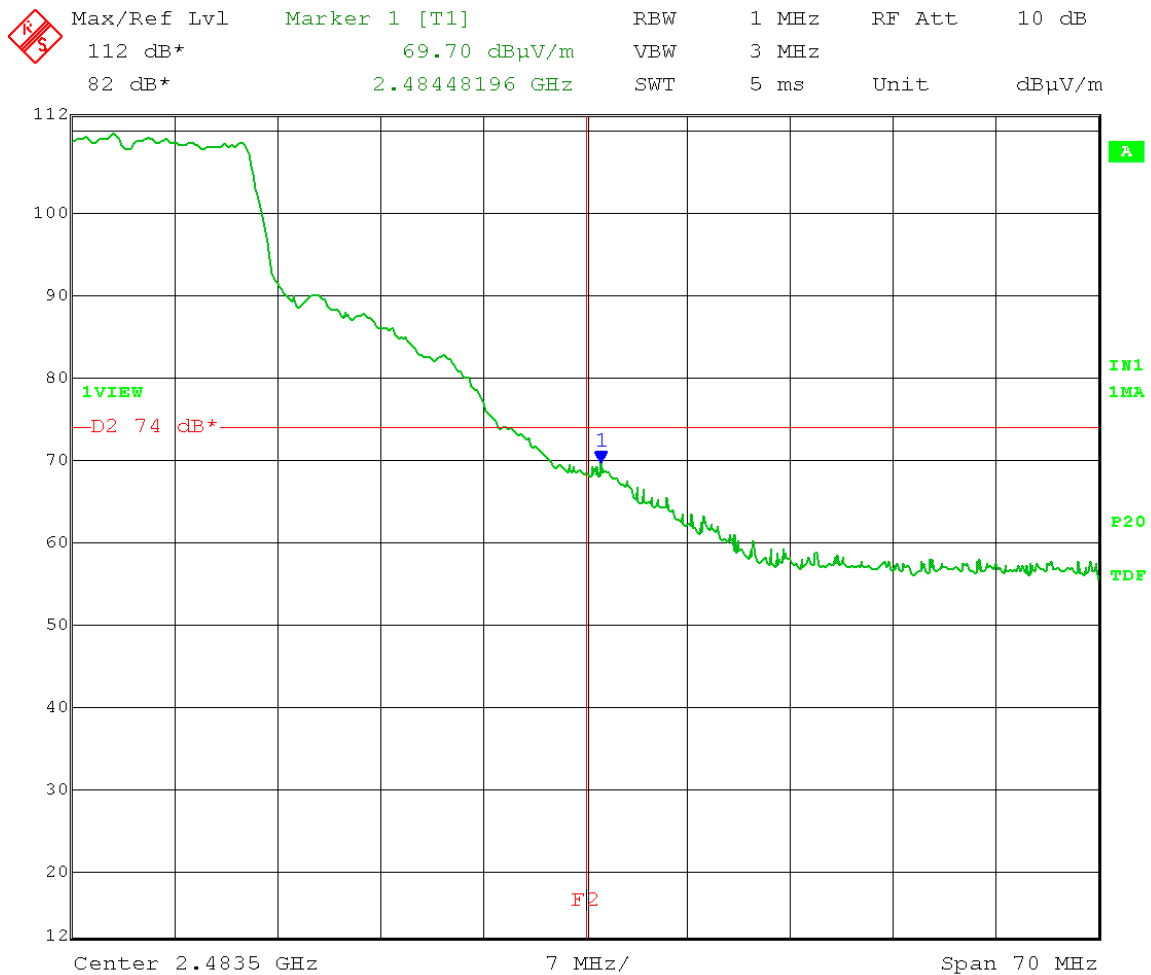
Date: 25.JUL.2016 13:22:34

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2452 MHz, channel 9
Modulation: 802.11-n, MCS7
Power setting: 14

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



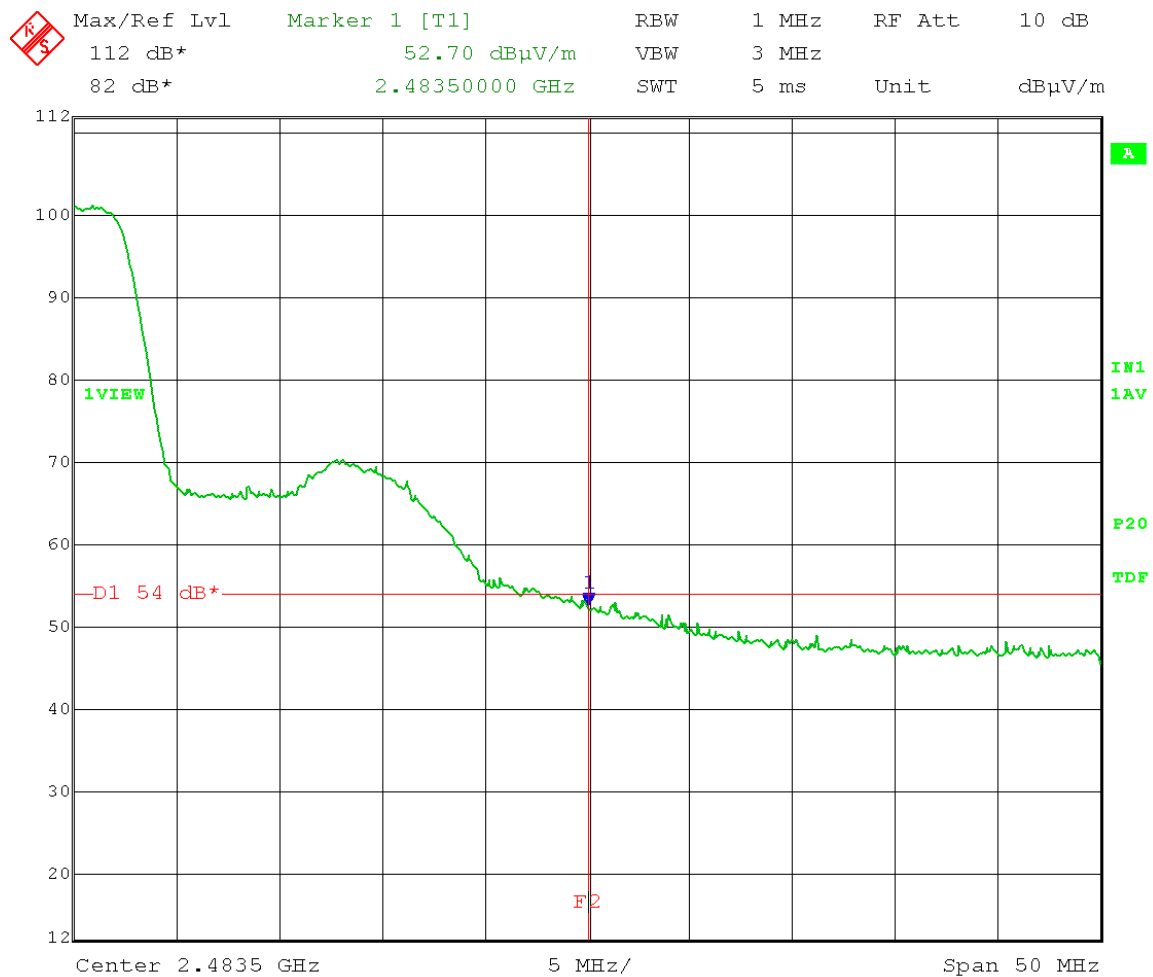
Date: 25.JUL.2016 13:23:14

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2452 MHz, channel 9
Modulation: 802.11-n, MCS7
Power setting: 14

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



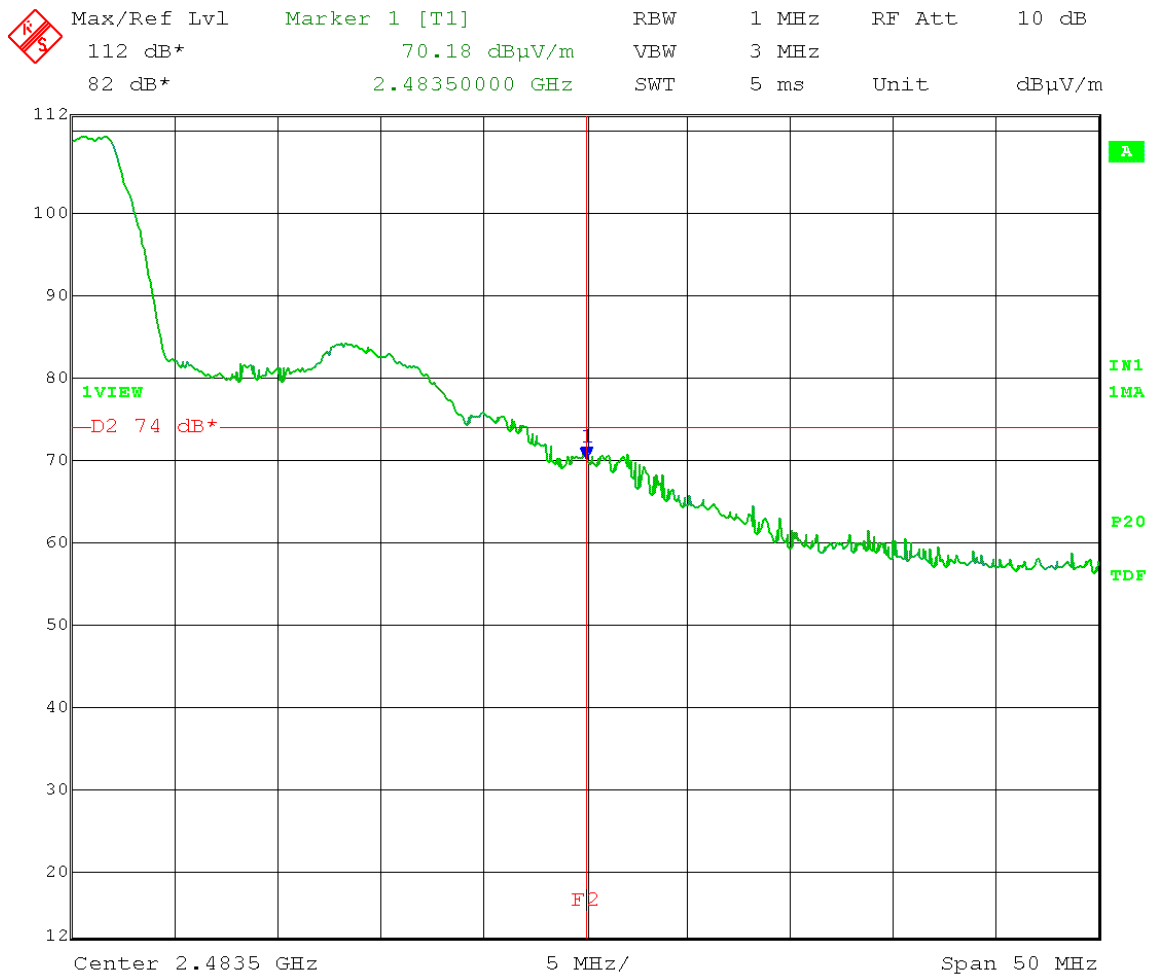
Date: 25.JUL.2016 10:20:33

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Upper Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2452 MHz, channel 9
Modulation: 802.11-n, MCS7
Power setting: 14

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



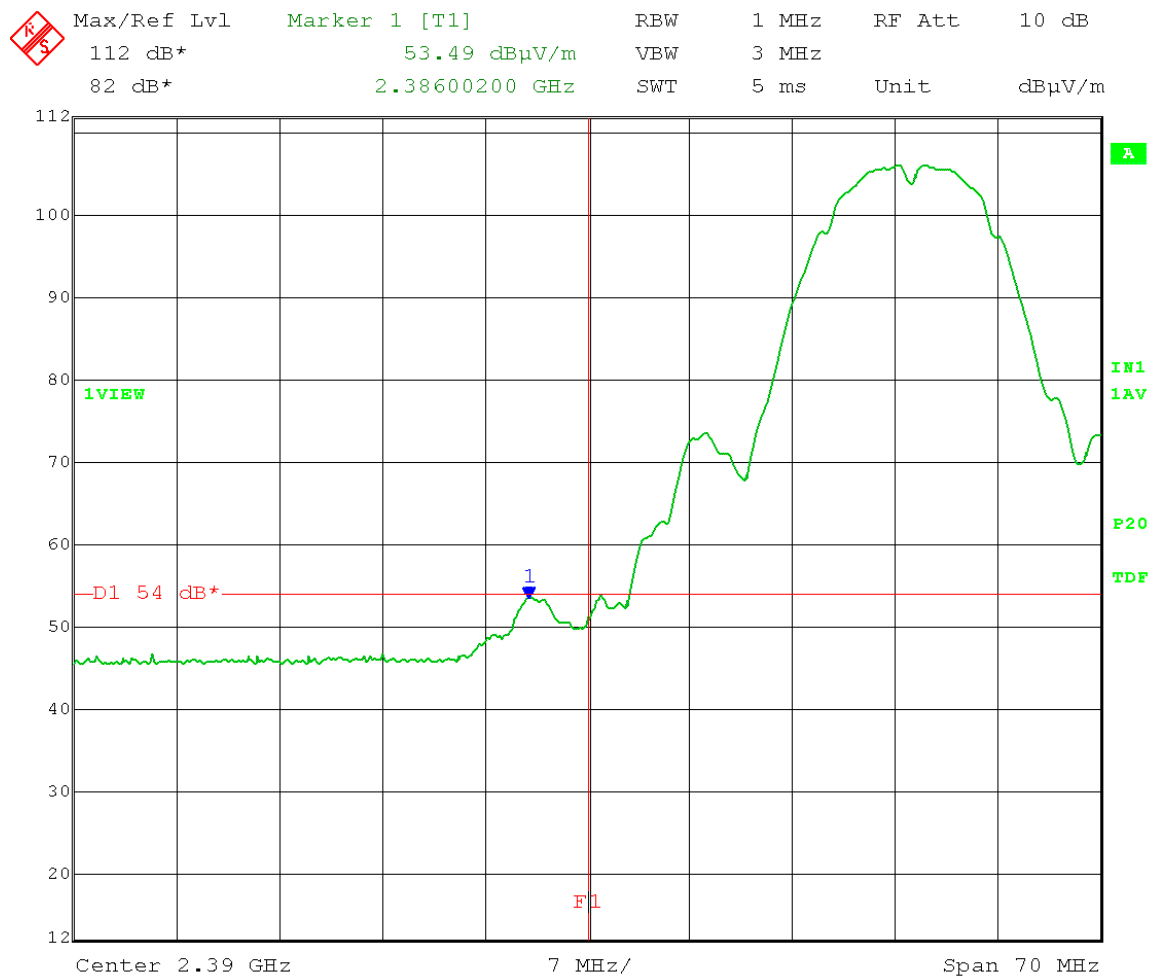
Date: 25.JUL.2016 10:21:36

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: Low, 2412 MHz, **channel 1**
Modulation: 802.11-b, 1 Mbps
Power setting: **18**

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



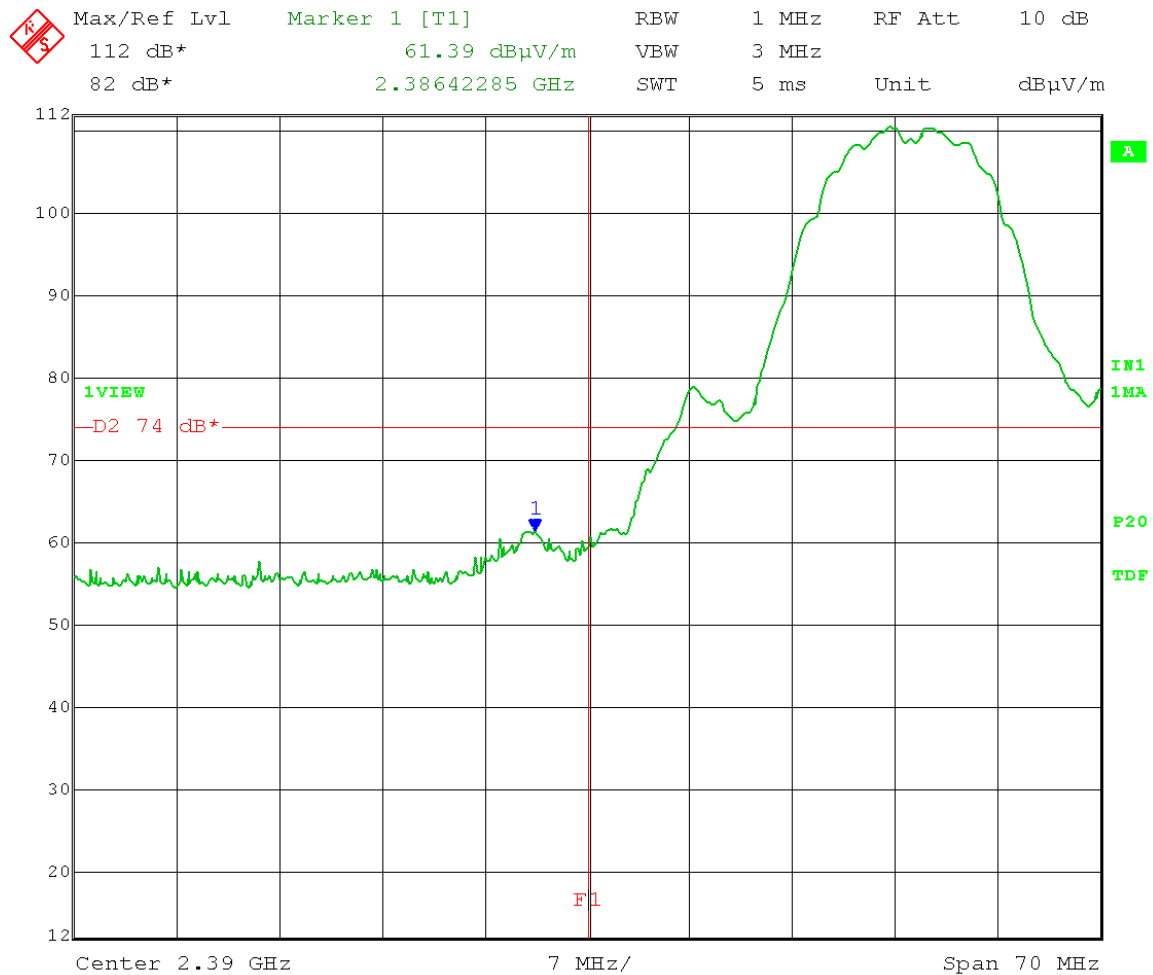
Date: 25.JUL.2016 13:34:52

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: Low, 2412 MHz, **channel 1**
Modulation: 802.11-b, 1 Mbps
Power setting: **18**

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters

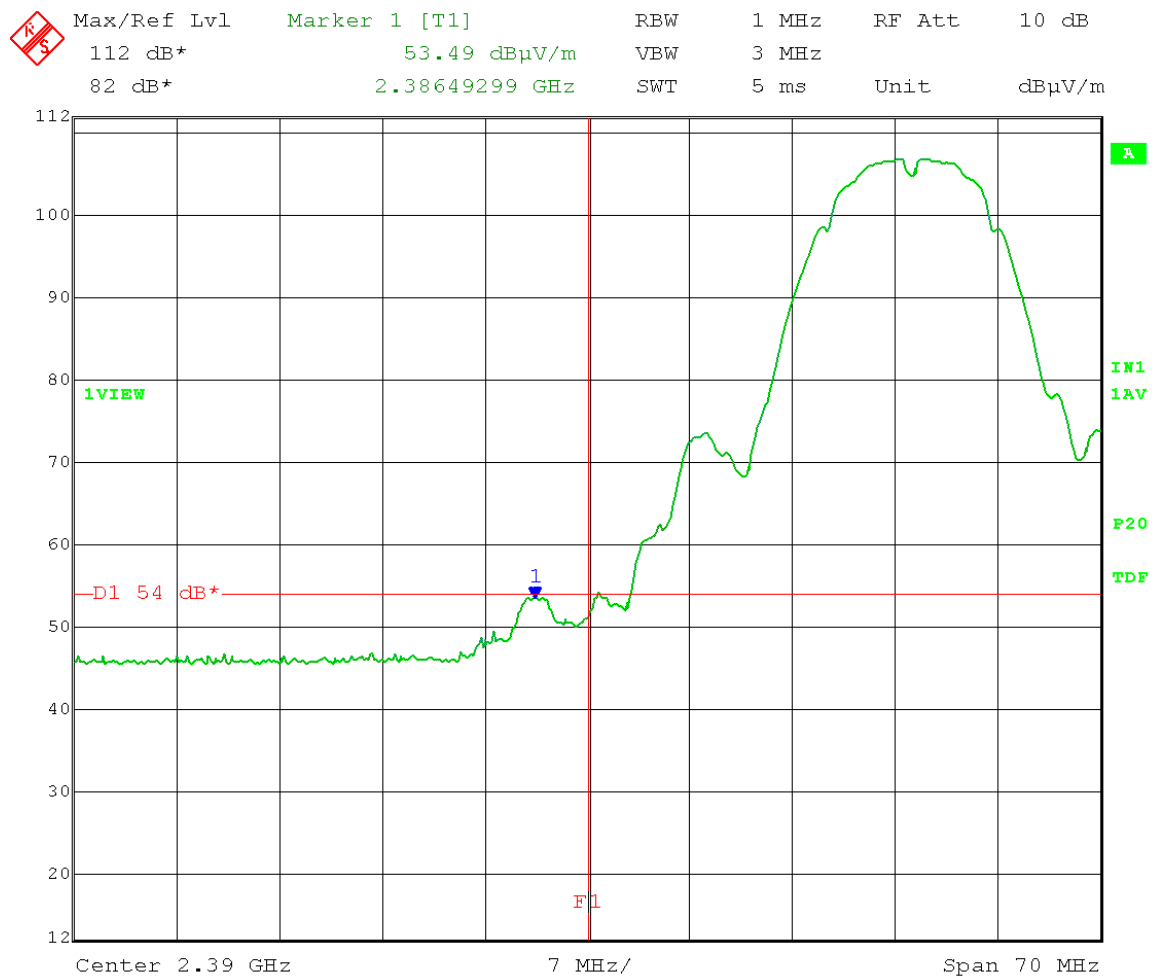


Date: 25.JUL.2016 13:35:36

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: Low, 2412 MHz, **channel 1**
Modulation: 802.11-b, 1 Mbps
Power setting: **17**

VERTICAL:
AVERAGE: Limit = 54 dB μ V/m @ 3 meters



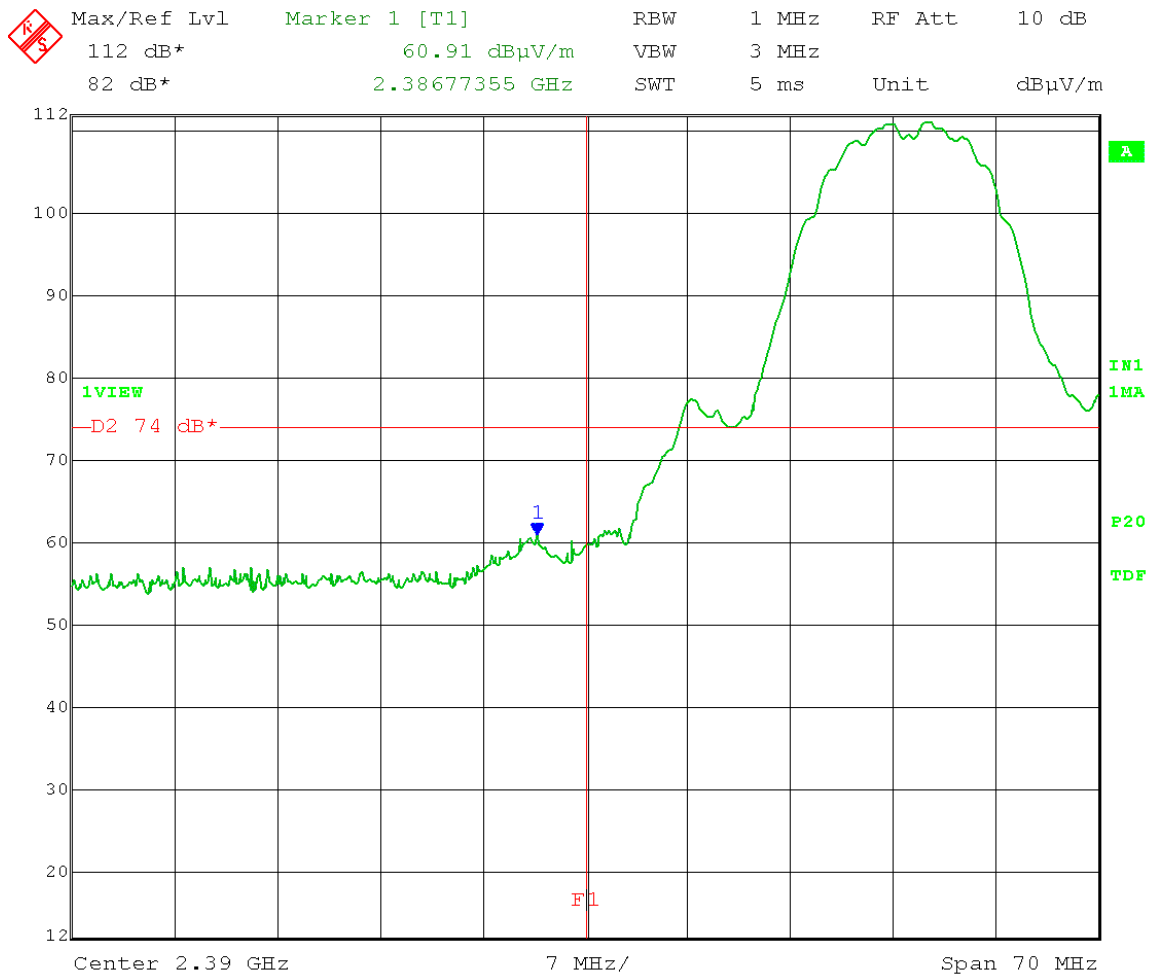
Date: 25.JUL.2016 10:44:08

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: Low, 2412 MHz, **channel 1**
Modulation: 802.11-b, 1 Mbps
Power setting: **17**

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



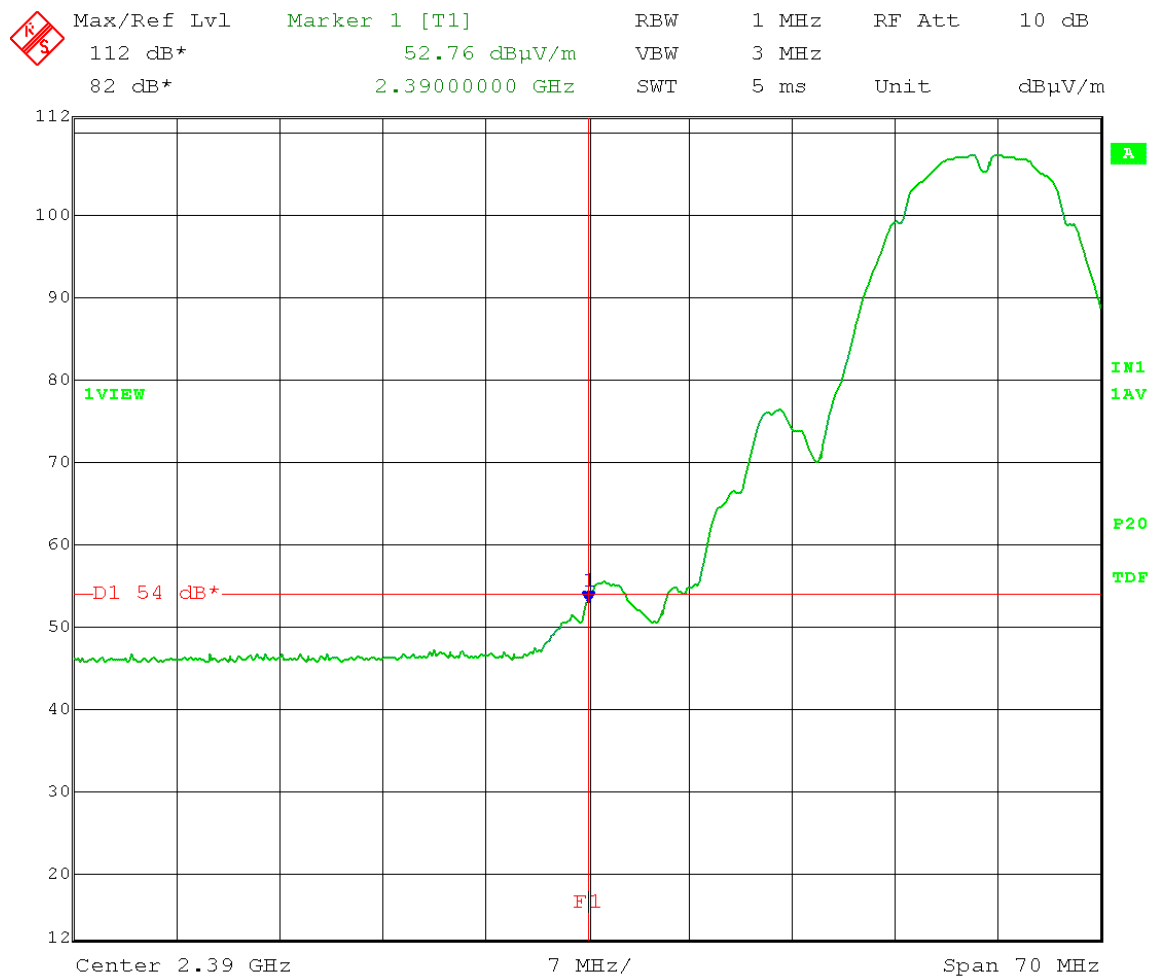
Date: 25.JUL.2016 10:44:51

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2417 MHz, channel 2
Modulation: 802.11-b, 1 Mbps
Power setting: 18

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



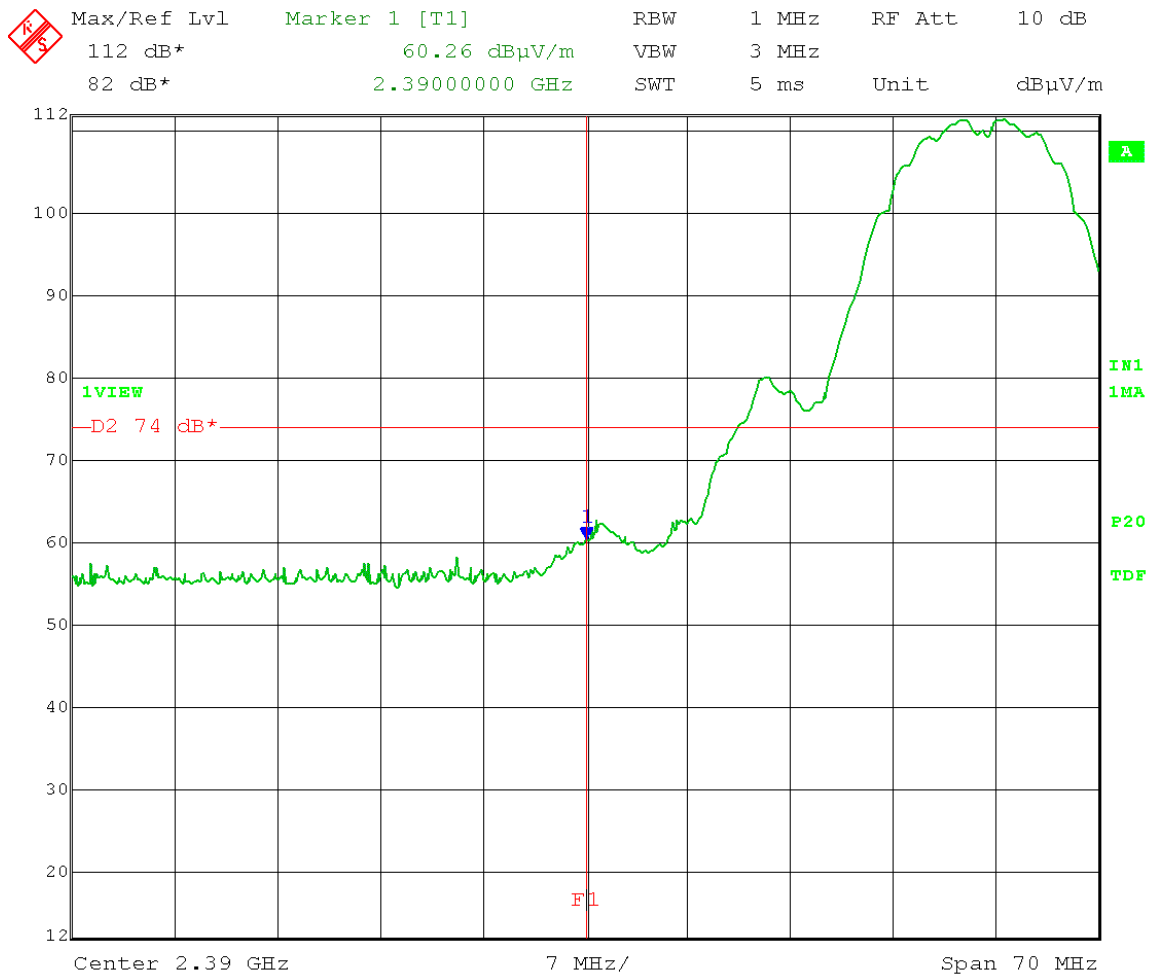
Date: 25.JUL.2016 10:49:06

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2417 MHz, channel 2
Modulation: 802.11-b, 1 Mbps
Power setting: 18

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



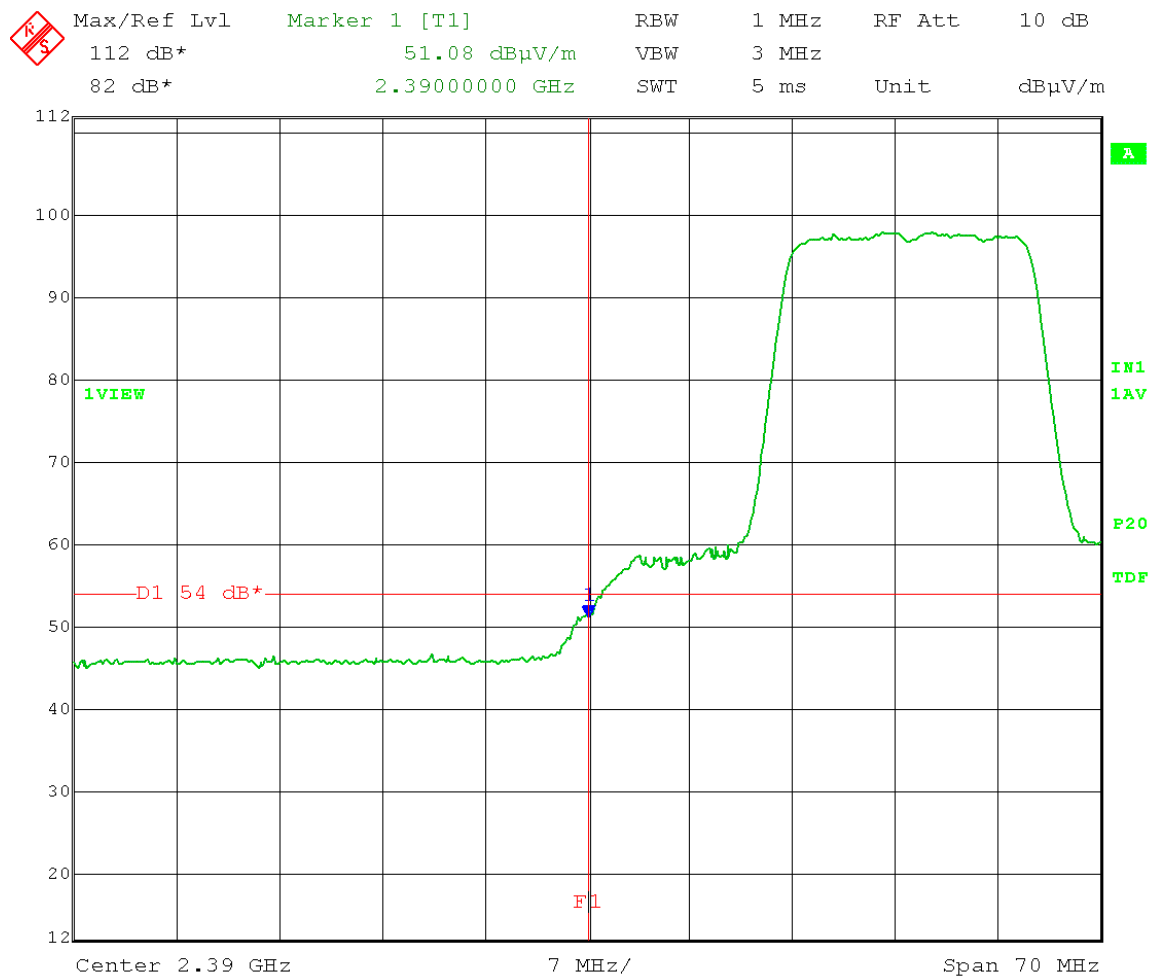
Date: 25.JUL.2016 10:49:55

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: Low, 2412 MHz, channel 1
Modulation: 802.11-g, 54 Mbps
Power setting: 11

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



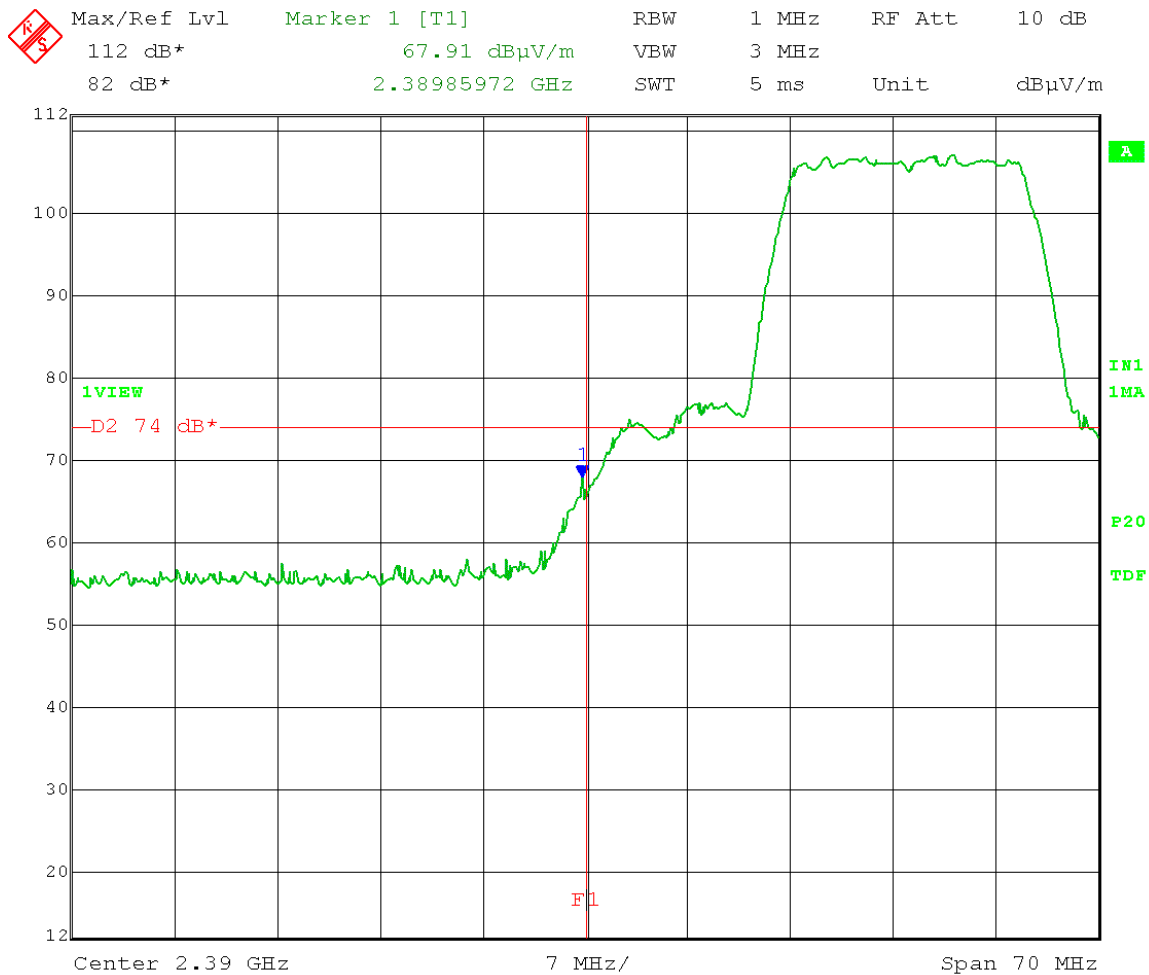
Date: 25.JUL.2016 13:37:58

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: Low, 2412 MHz, **channel 1**
Modulation: 802.11-g, 54 Mbps
Power setting: **11**

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



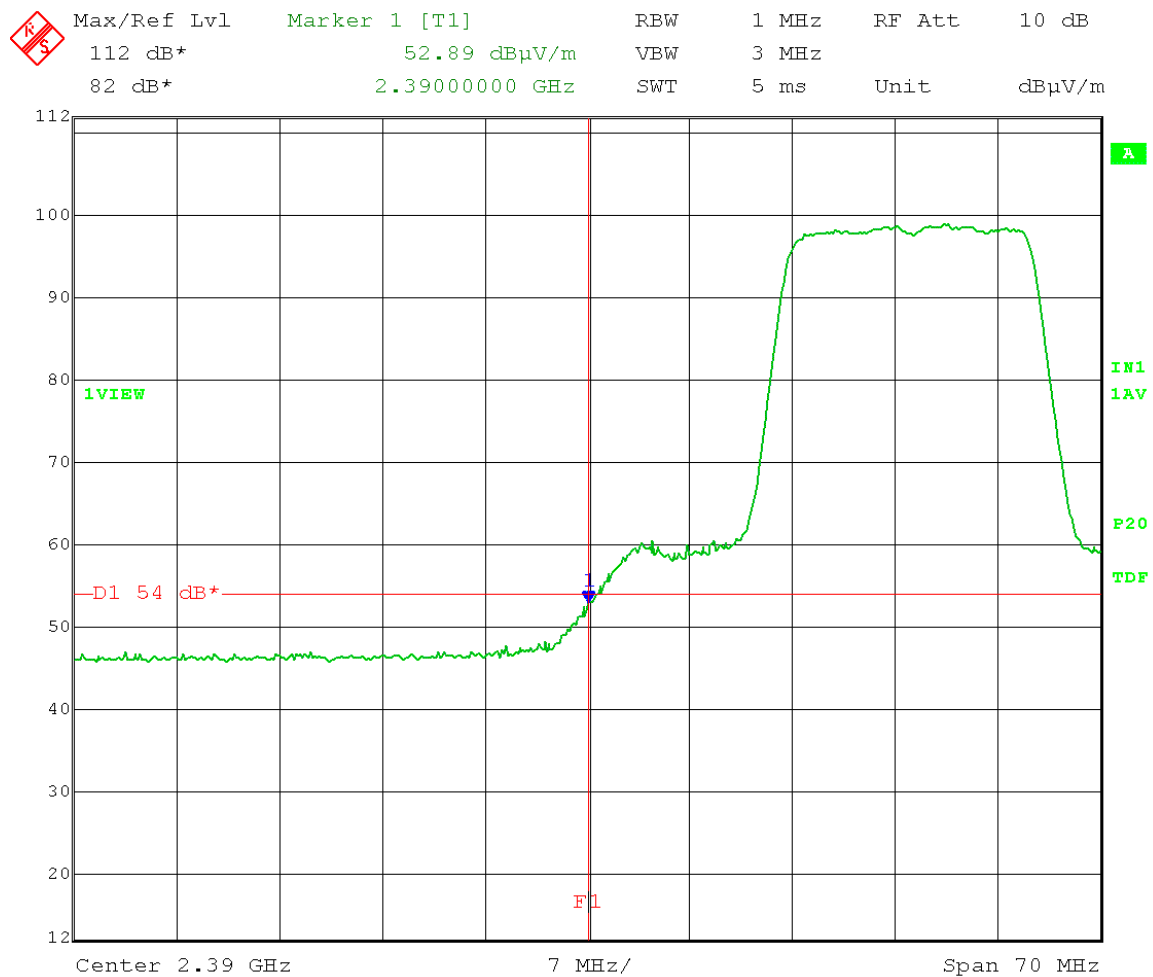
Date: 25.JUL.2016 13:38:28

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: Low, 2412 MHz, **channel 1**
Modulation: 802.11-g, 54 Mbps
Power setting: **11**

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



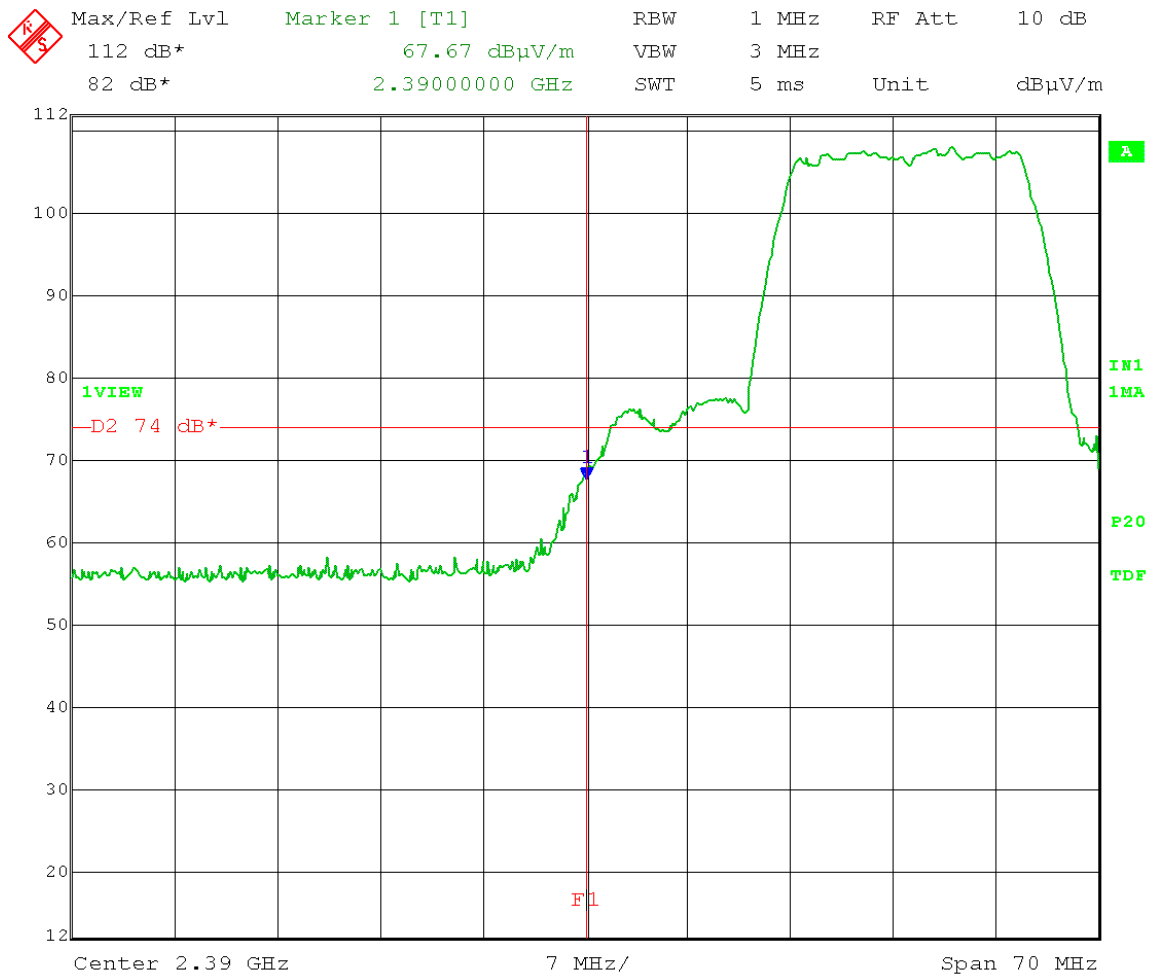
Date: 25.JUL.2016 10:54:27

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: Low, 2412 MHz, **channel 1**
Modulation: 802.11-g, 54 Mbps
Power setting: **11**

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



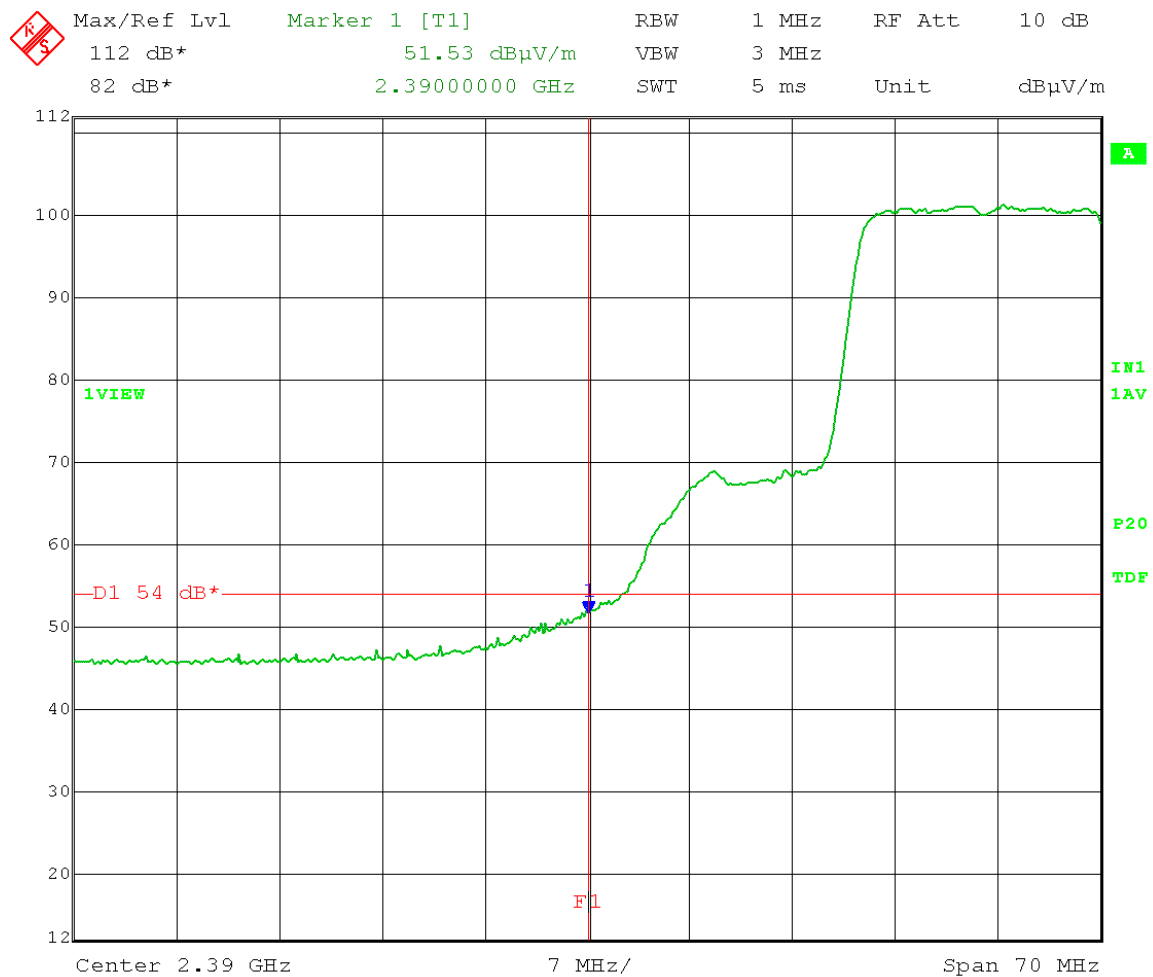
Date: 25.JUL.2016 10:54:53

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2417 MHz, channel 2
Modulation: 802.11-g, 54 Mbps
Power setting: 15

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



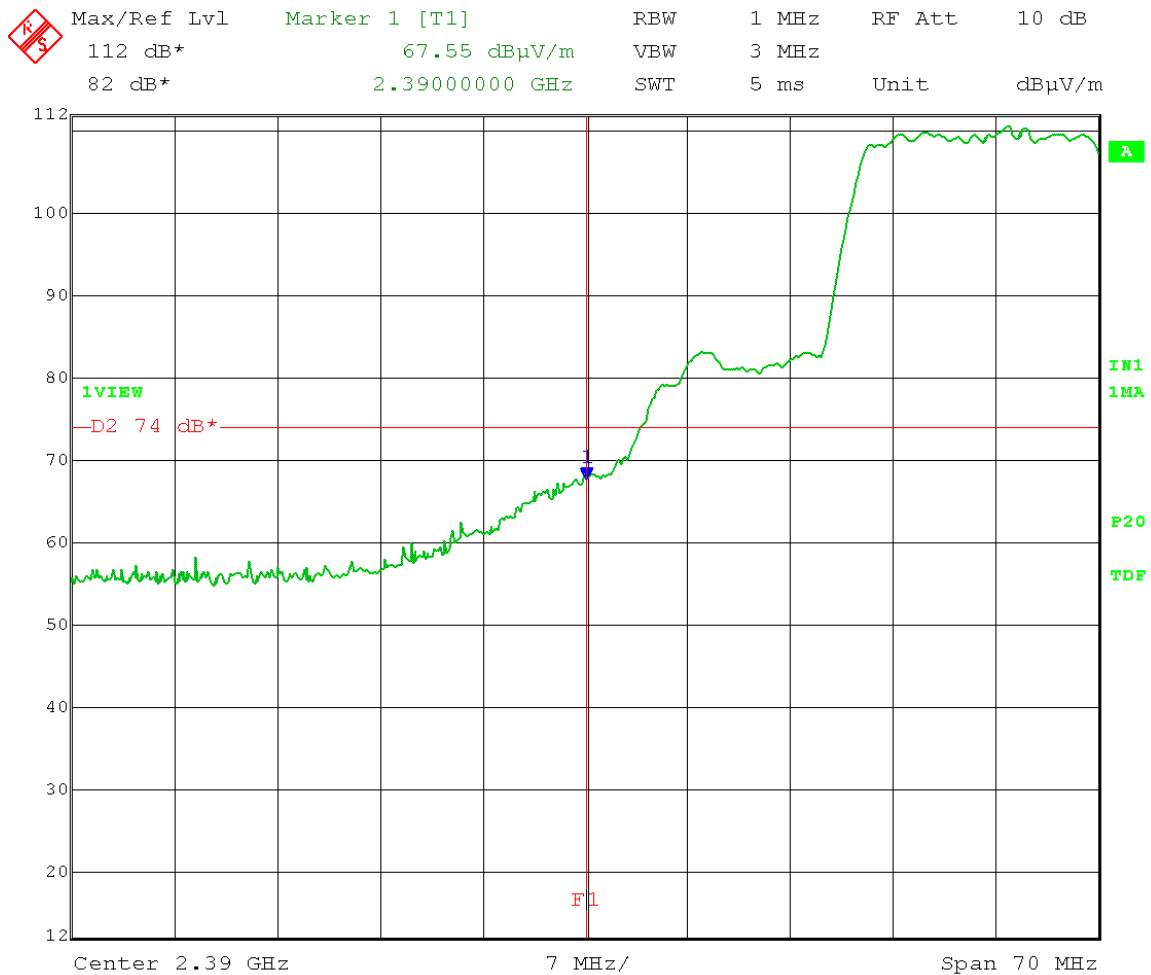
Date: 25.JUL.2016 13:40:18

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2417 MHz, channel 2
Modulation: 802.11-g, 54 Mbps
Power setting: 15

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



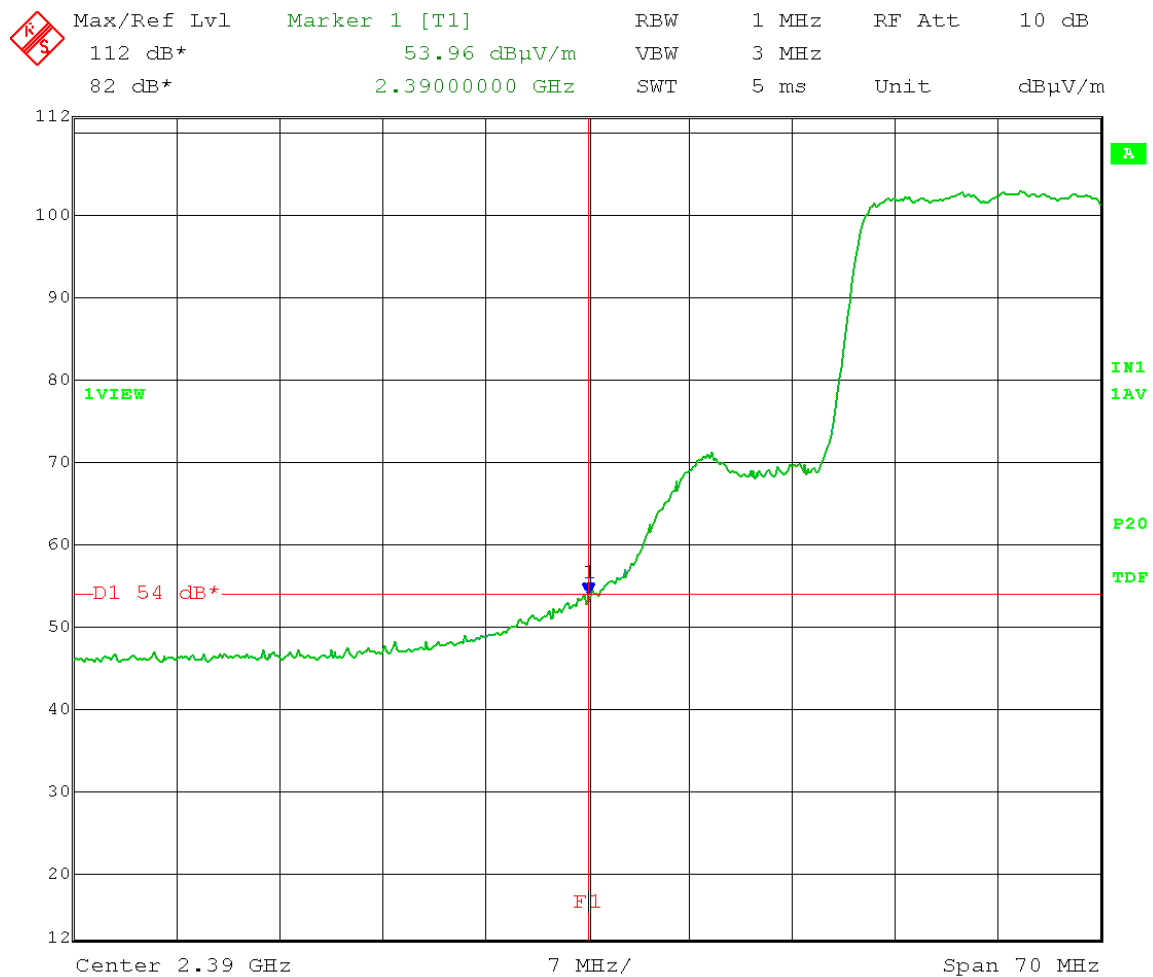
Date: 25.JUL.2016 13:40:43

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2417 MHz, channel 2
Modulation: 802.11-g, 54 Mbps
Power setting: 15

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



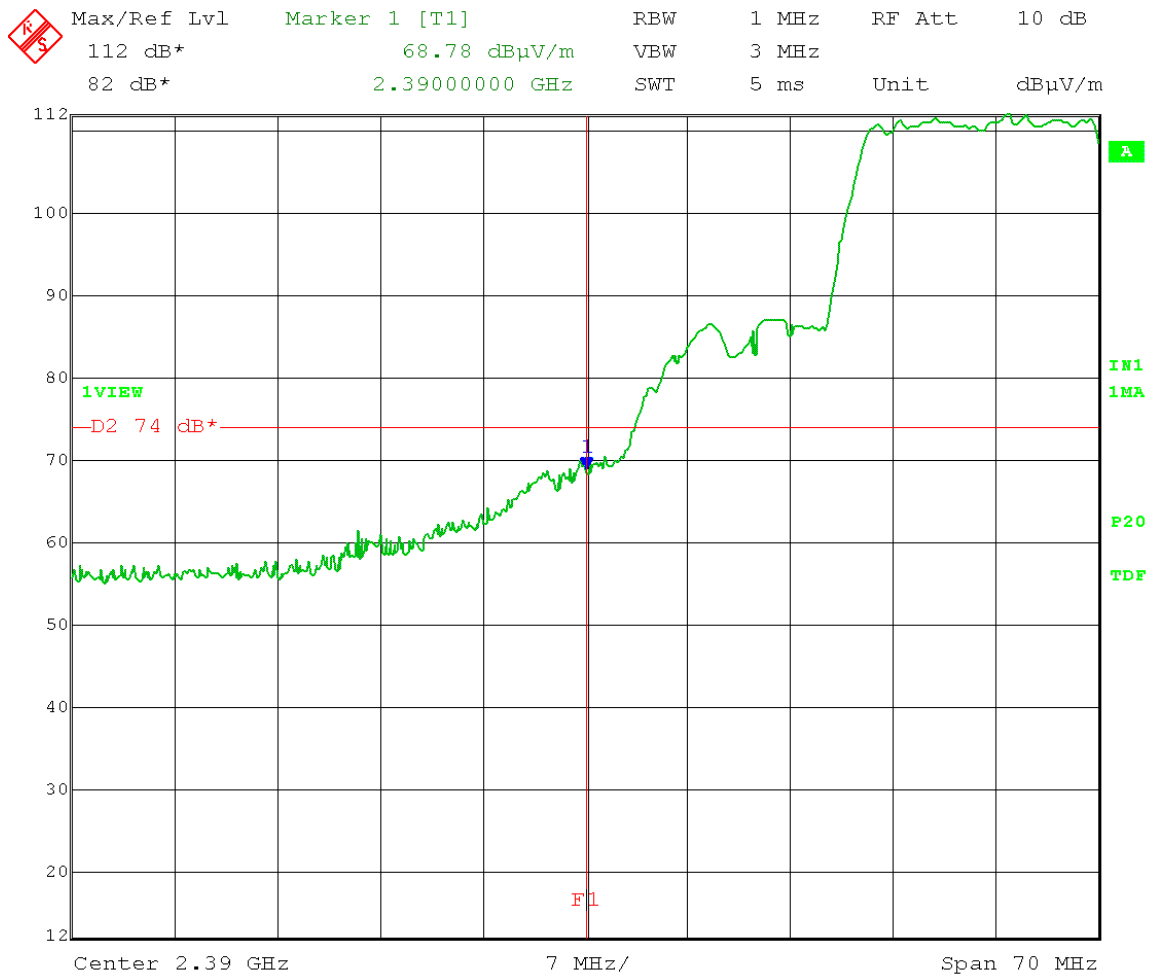
Date: 25.JUL.2016 10:57:34

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2417 MHz, channel 2
Modulation: 802.11-g, 54 Mbps
Power setting: 15

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



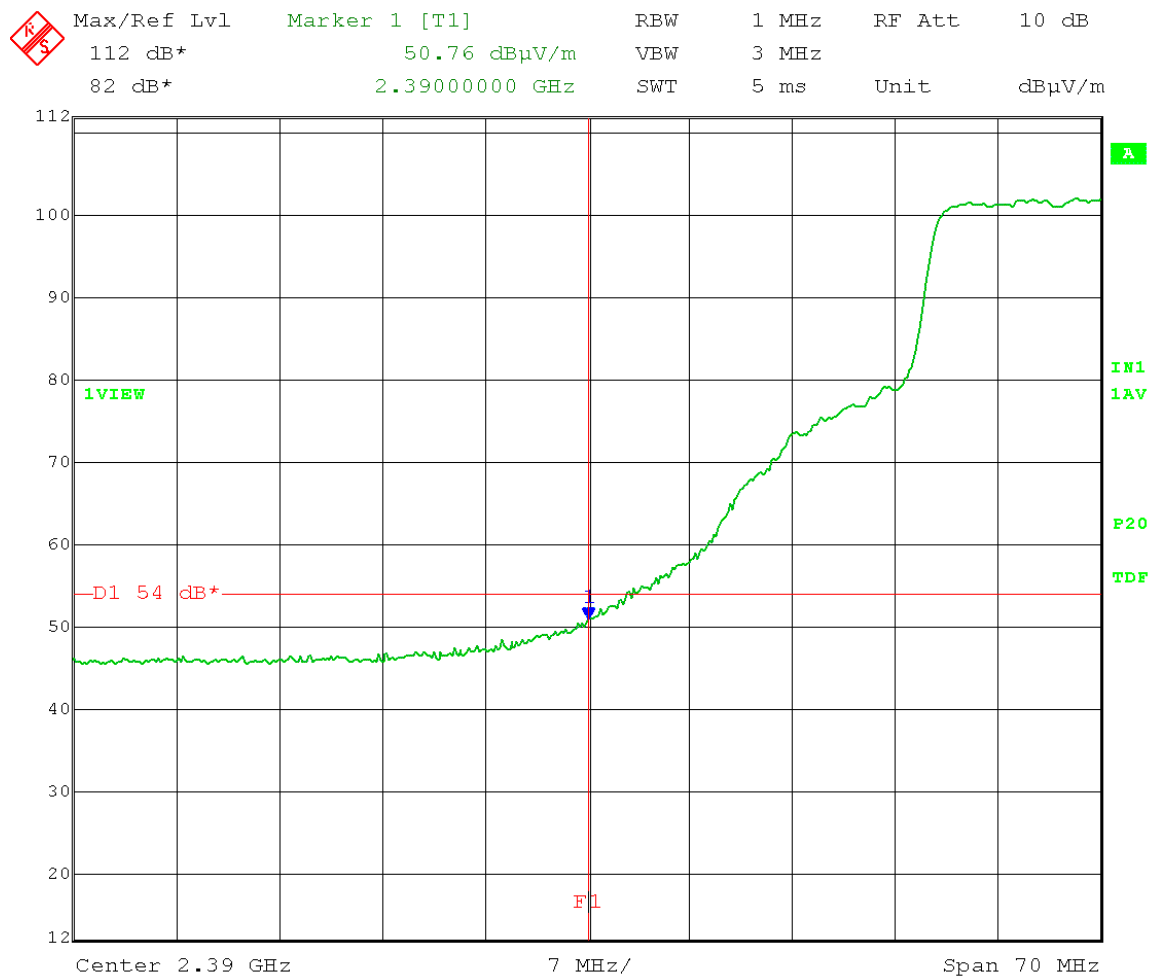
Date: 25.JUL.2016 10:58:04

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2422 MHz, channel 3
Modulation: 802.11-g, 54 Mbps
Power setting: 16

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



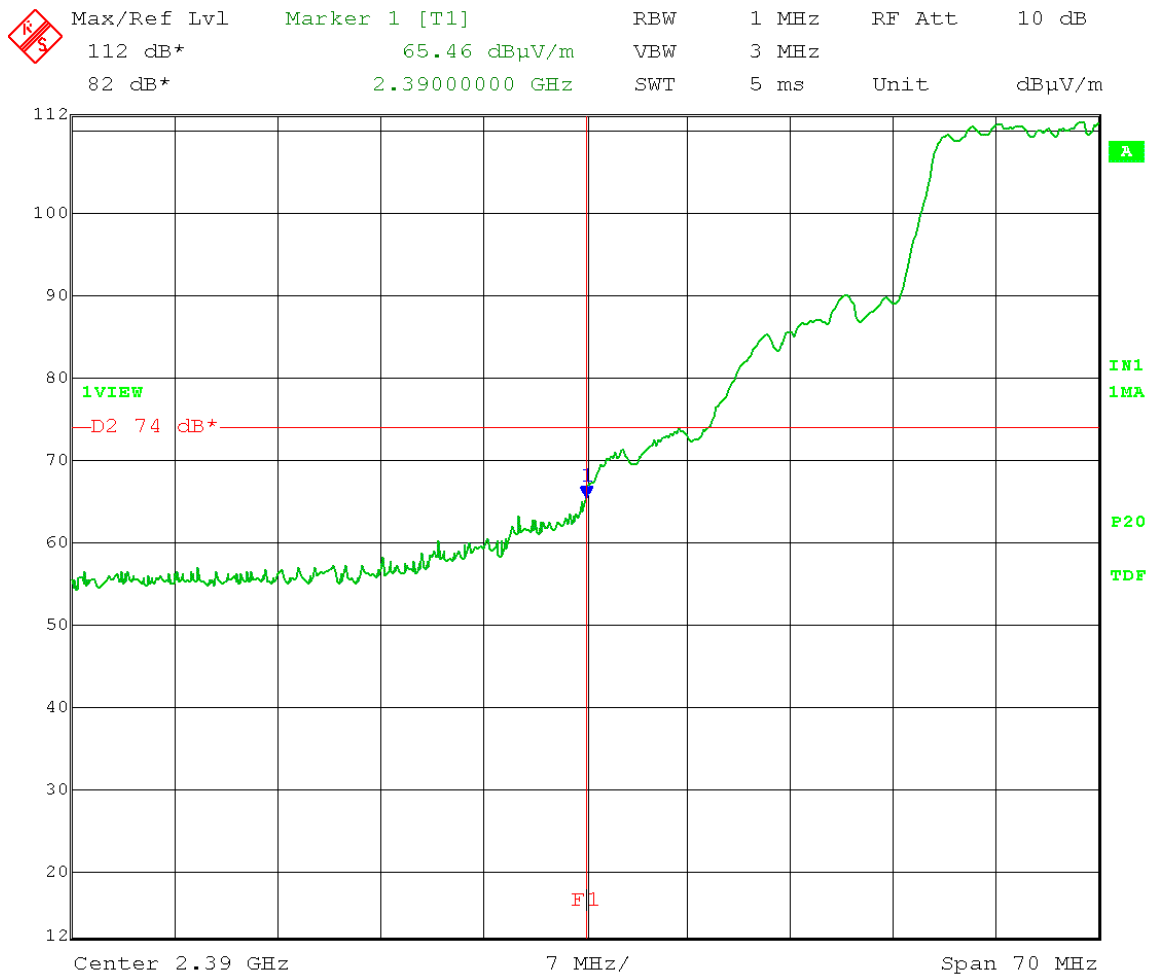
Date: 25.JUL.2016 13:44:11

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2422 MHz, channel 3
Modulation: 802.11-g, 54 Mbps
Power setting: 16

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



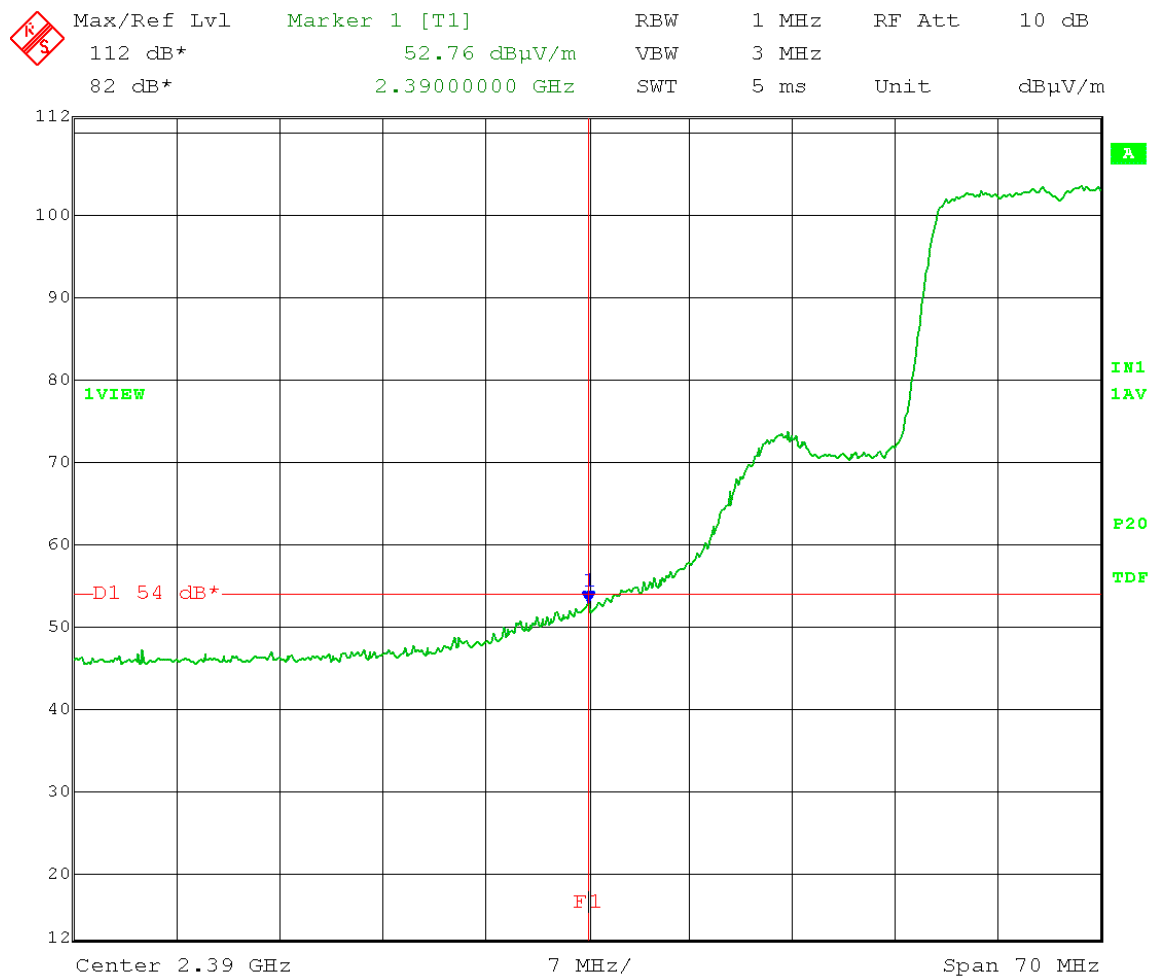
Date: 25.JUL.2016 13:44:35

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2422 MHz, channel 3
Modulation: 802.11-g, 54 Mbps
Power setting: 16

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



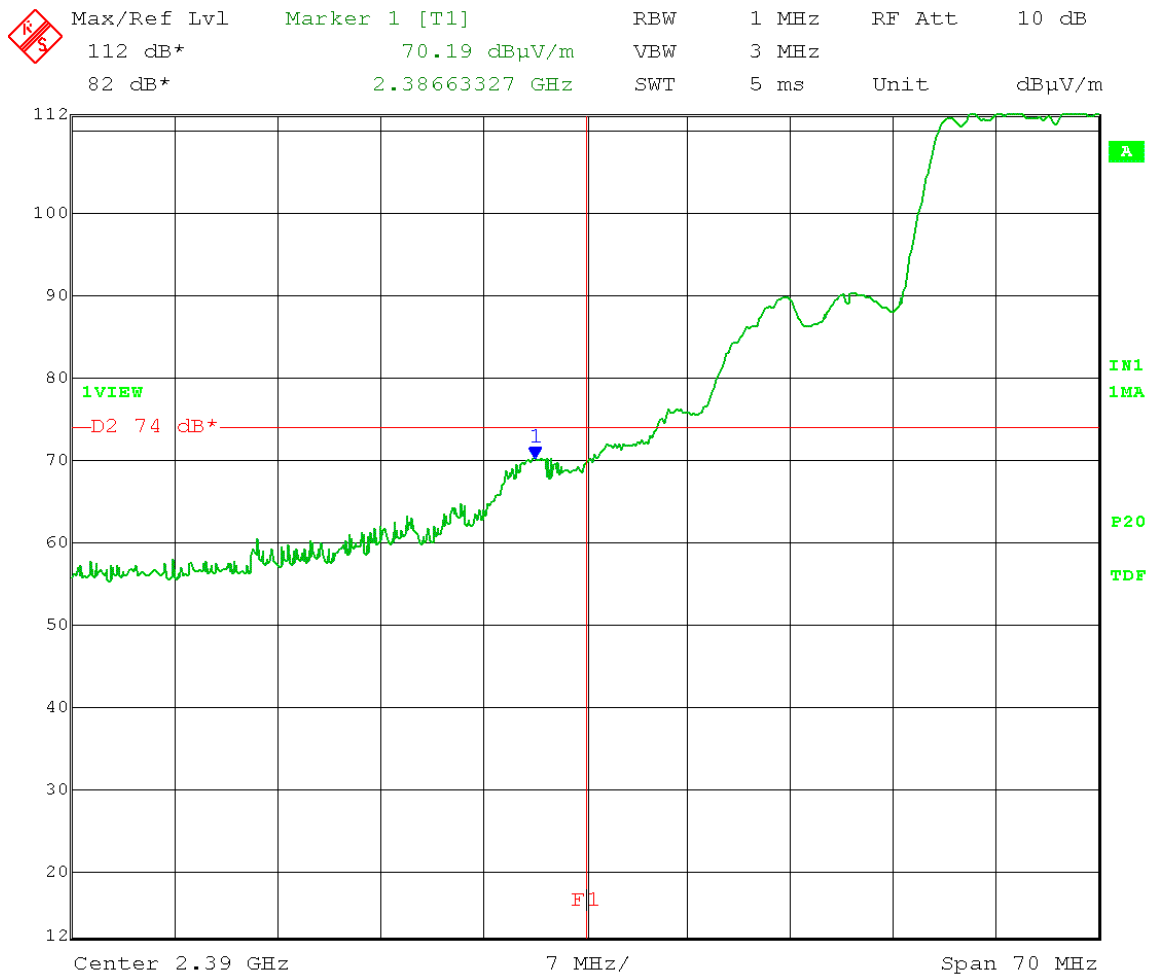
Date: 25.JUL.2016 11:00:28

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2422 MHz, channel 3
Modulation: 802.11-g, 54 Mbps
Power setting: 16

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



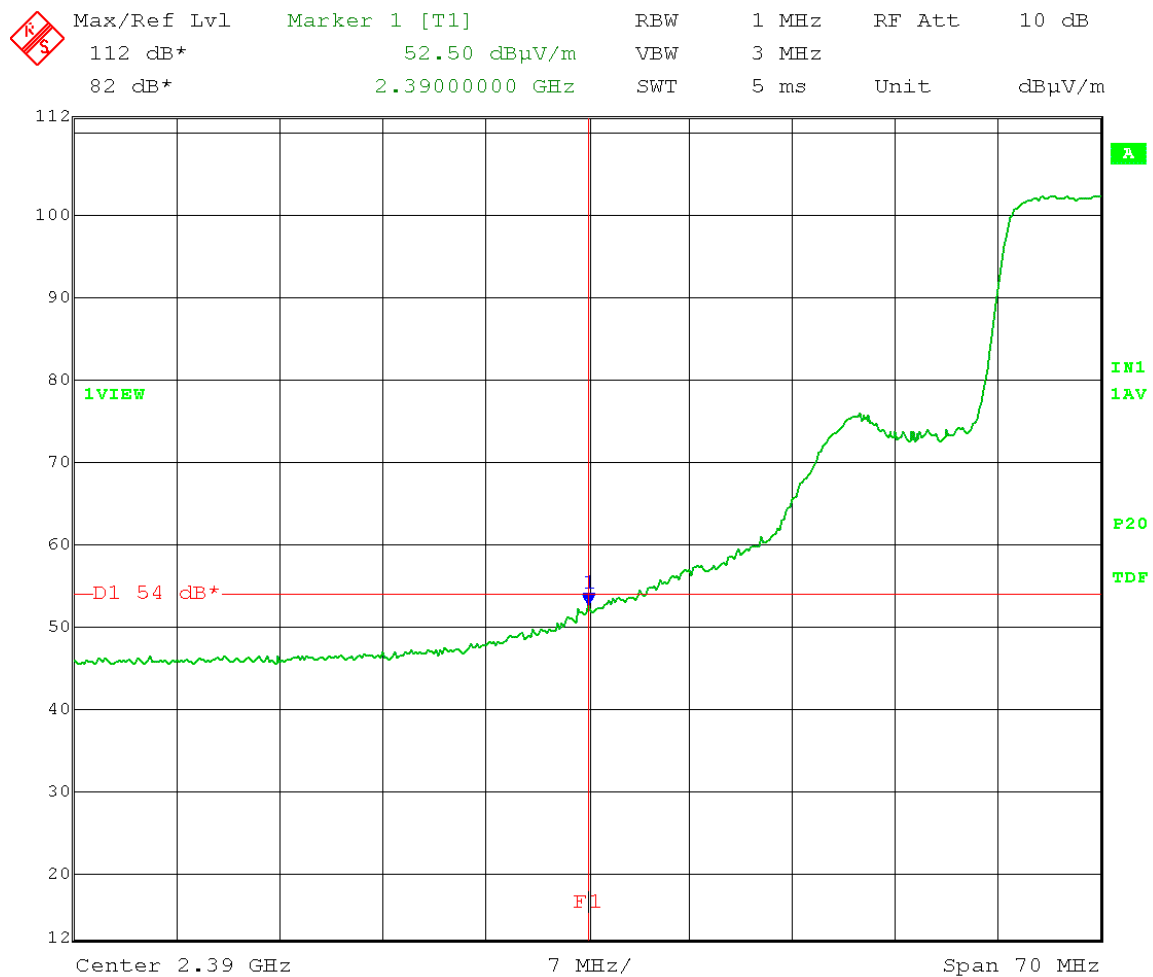
Date: 25.JUL.2016 11:01:18

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2427 MHz, channel 4
Modulation: 802.11-g, 54 Mbps
Power setting: 17

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



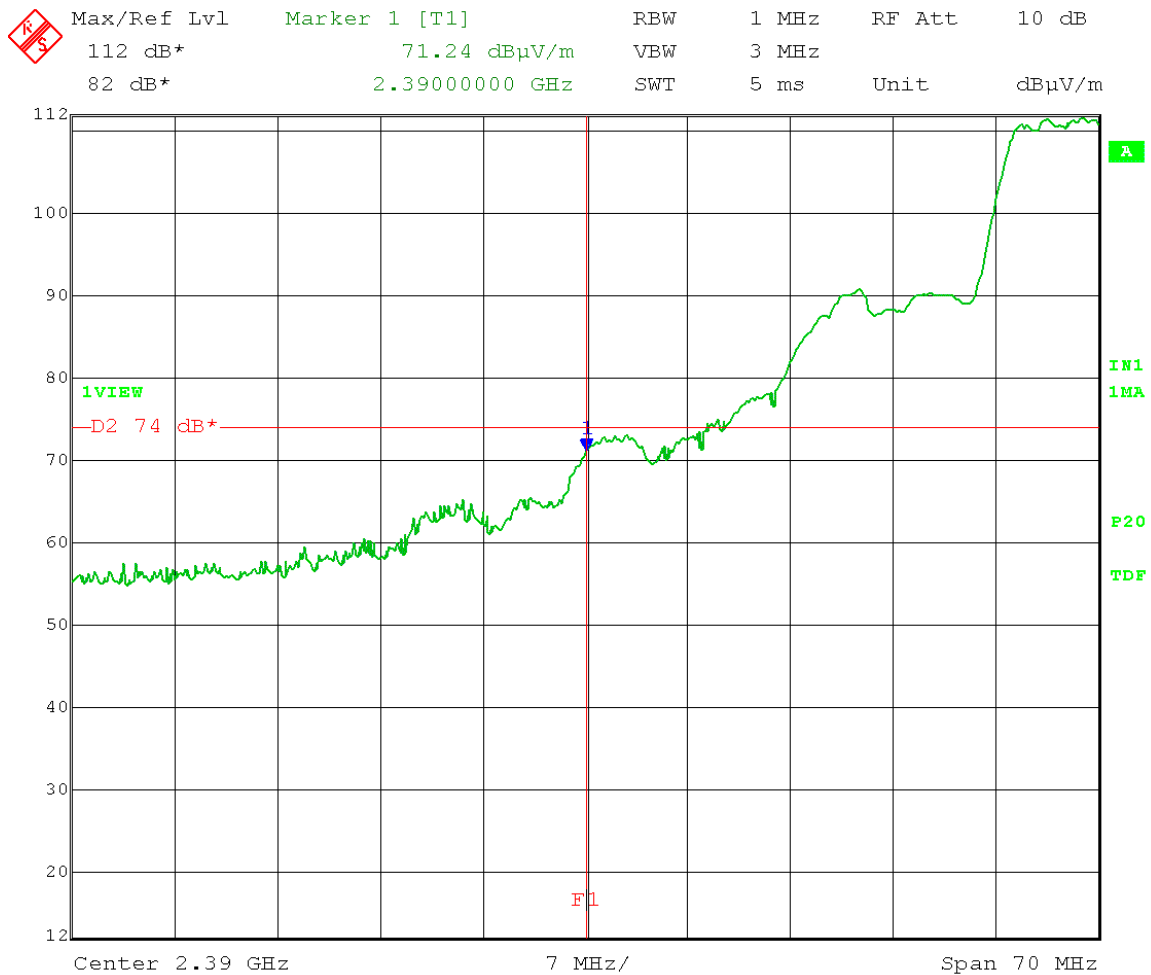
Date: 25.JUL.2016 13:47:26

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2427 MHz, channel 4
Modulation: 802.11-g, 54 Mbps
Power setting: 17

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



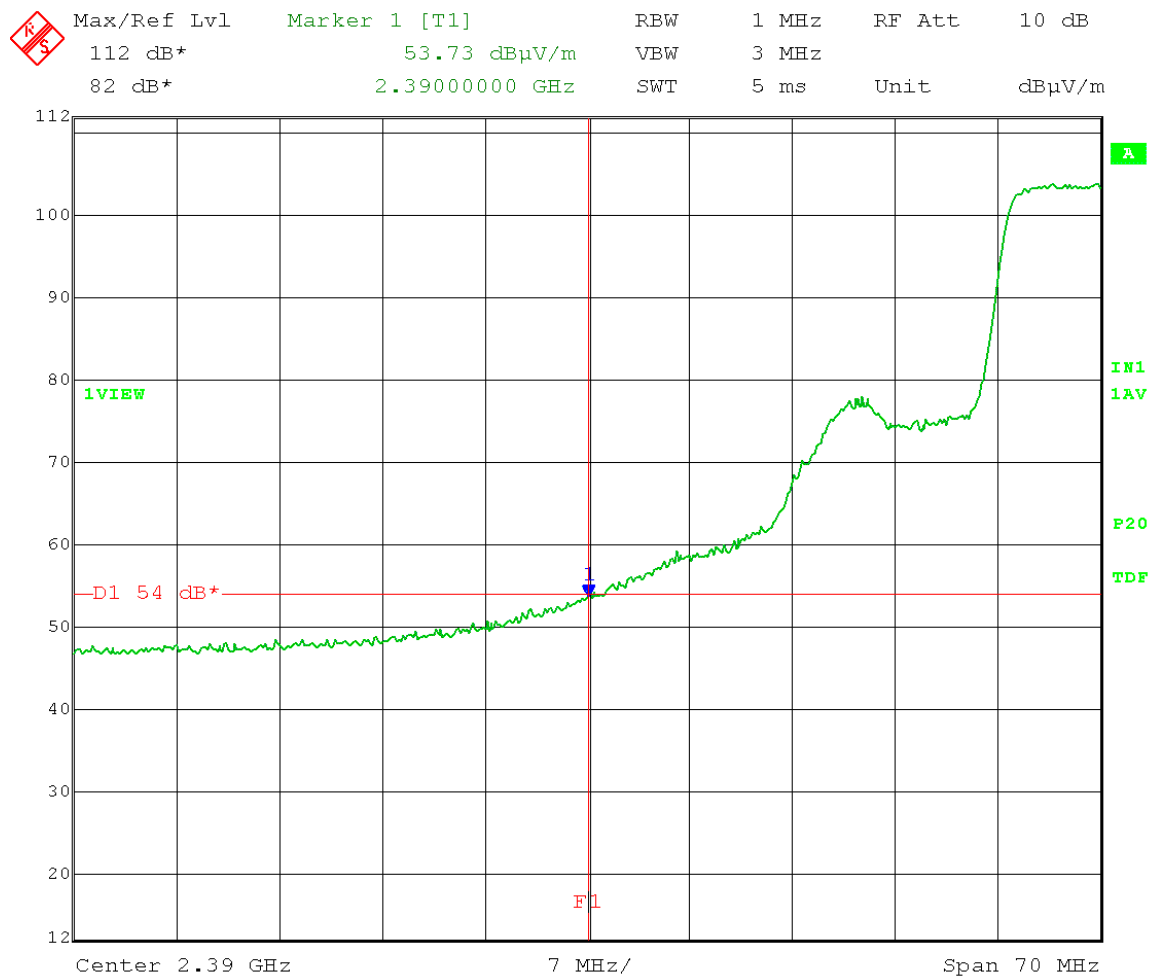
Date: 25.JUL.2016 13:47:57

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2427 MHz, channel 4
Modulation: 802.11-g, 54 Mbps
Power setting: 17

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



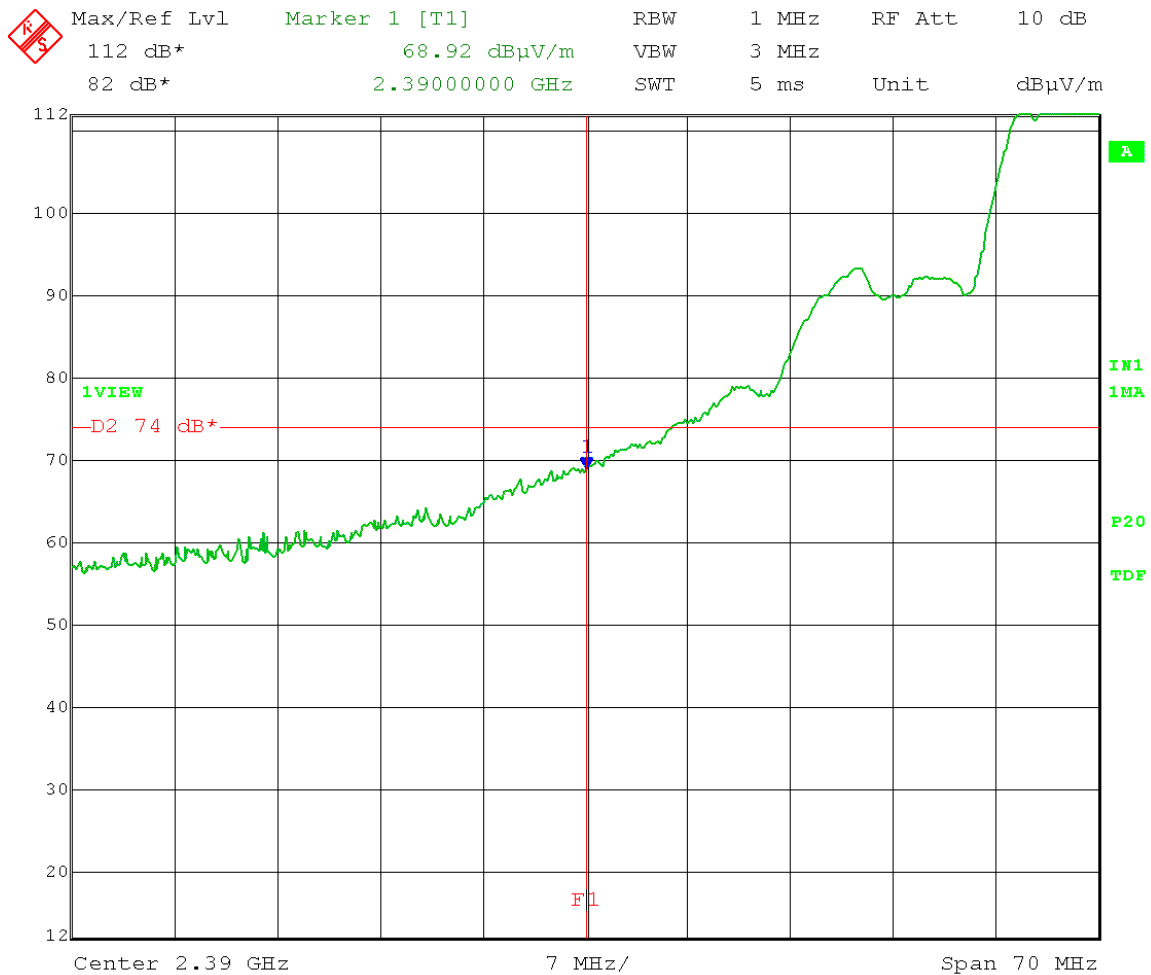
Date: 25.JUL.2016 11:03:23

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2427 MHz, channel 4
Modulation: 802.11-g, 54 Mbps
Power setting: 17

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



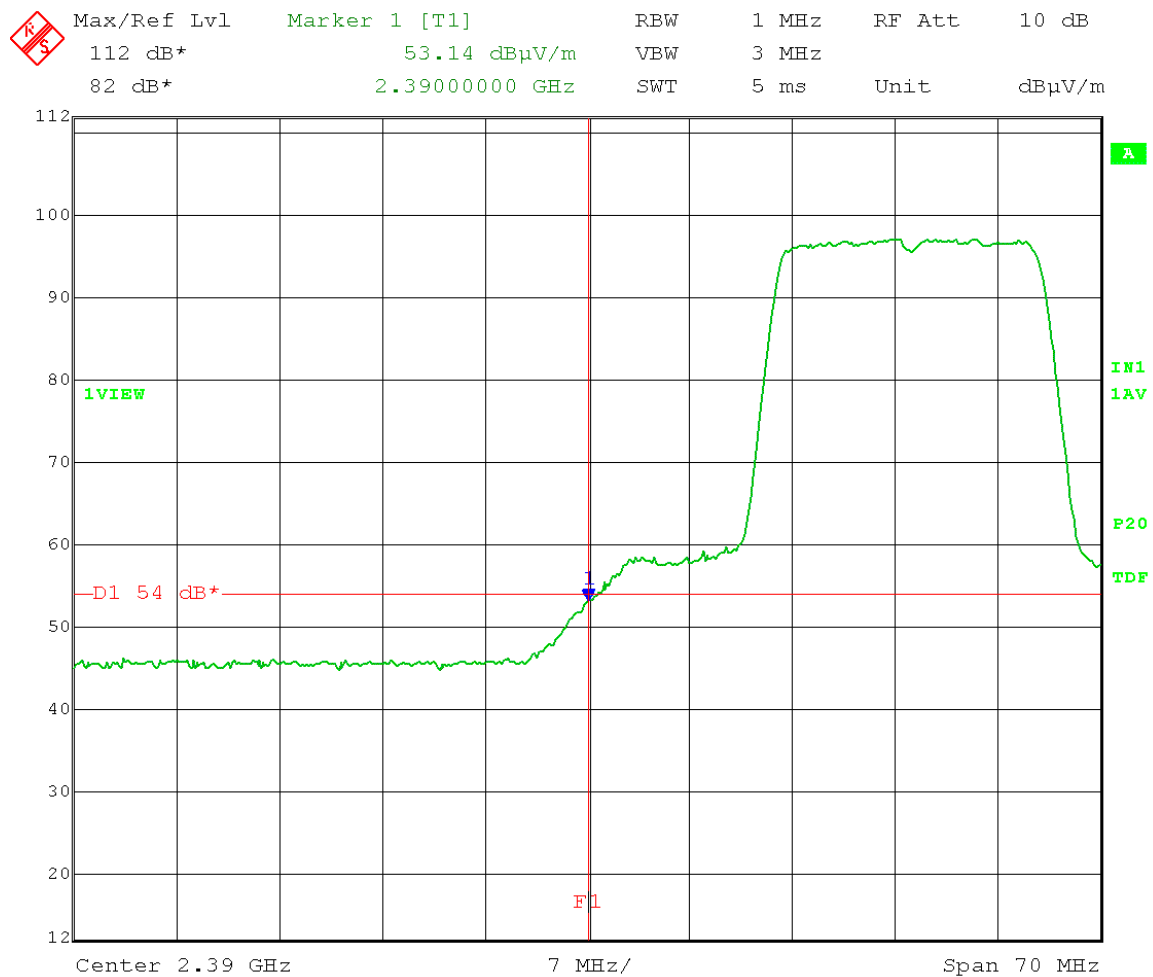
Date: 25.JUL.2016 11:04:03

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: Low, 2412 MHz, channel 1
Modulation: 802.11-n, MCS7
Power setting: 10

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



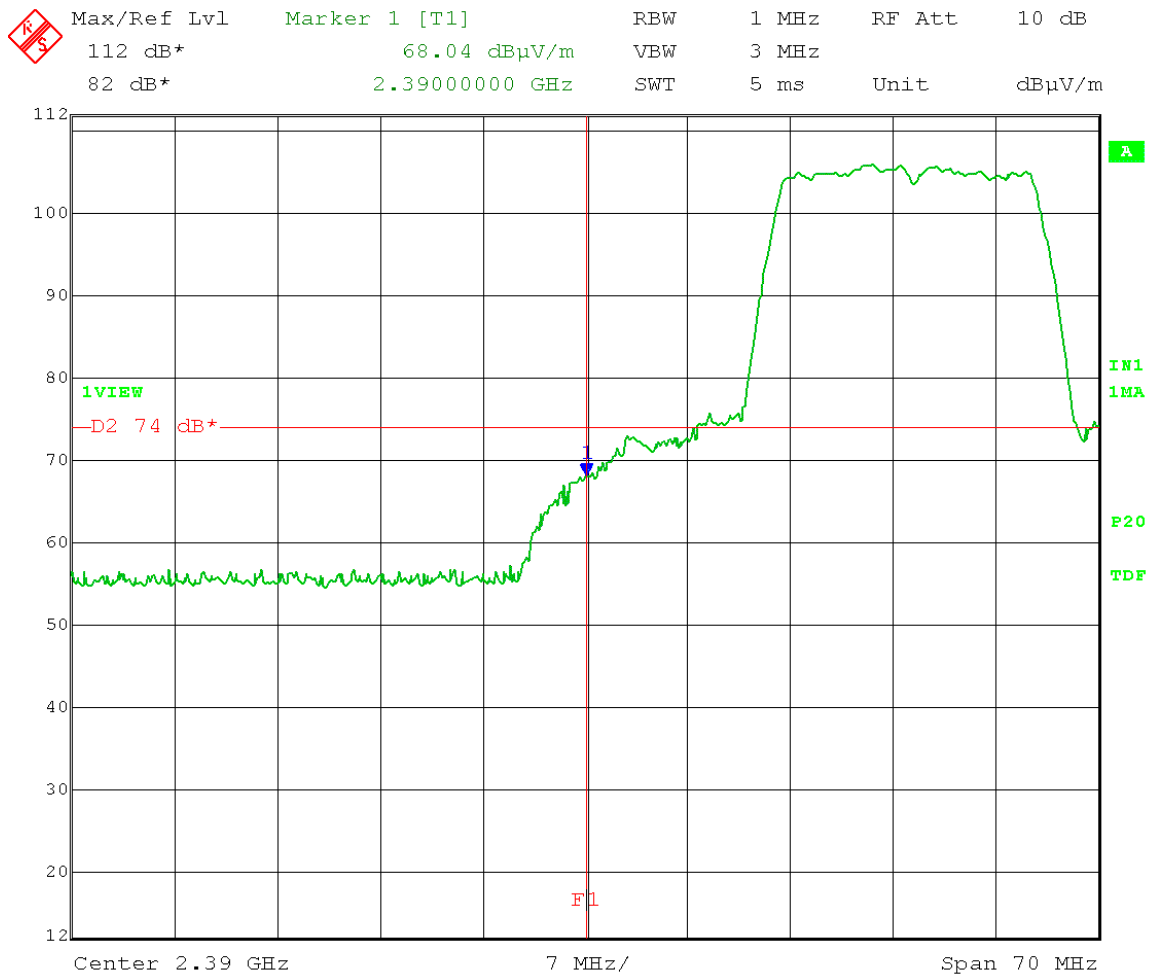
Date: 25.JUL.2016 13:49:54

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: Low, 2412 MHz, channel 1
Modulation: 802.11-n, MCS7
Power setting: 10

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters

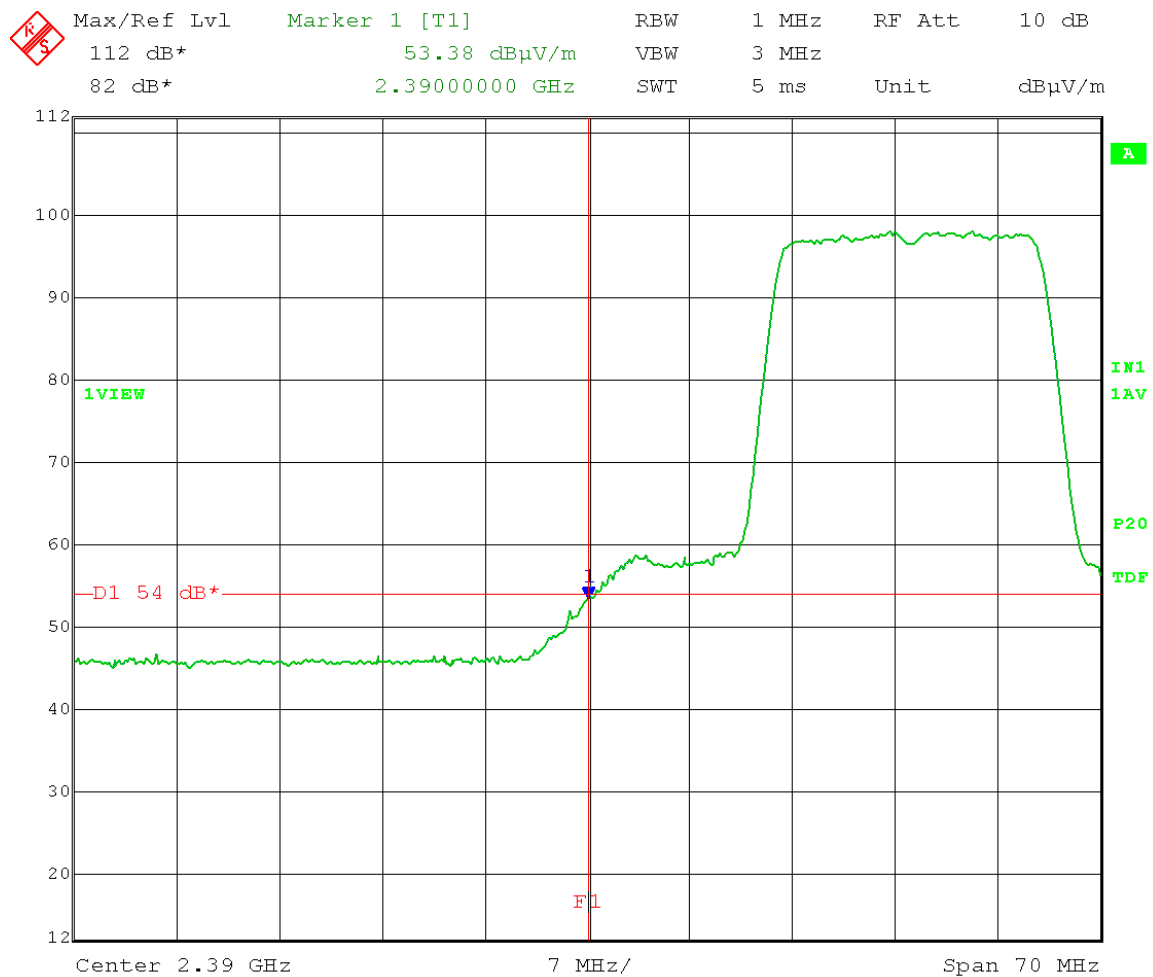


Date: 25.JUL.2016 13:50:23

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: Low, 2412 MHz, channel 1
Modulation: 802.11-n, MCS7
Power setting: 10

VERTICAL:
AVERAGE: Limit = 54 dB μ V/m @ 3 meters



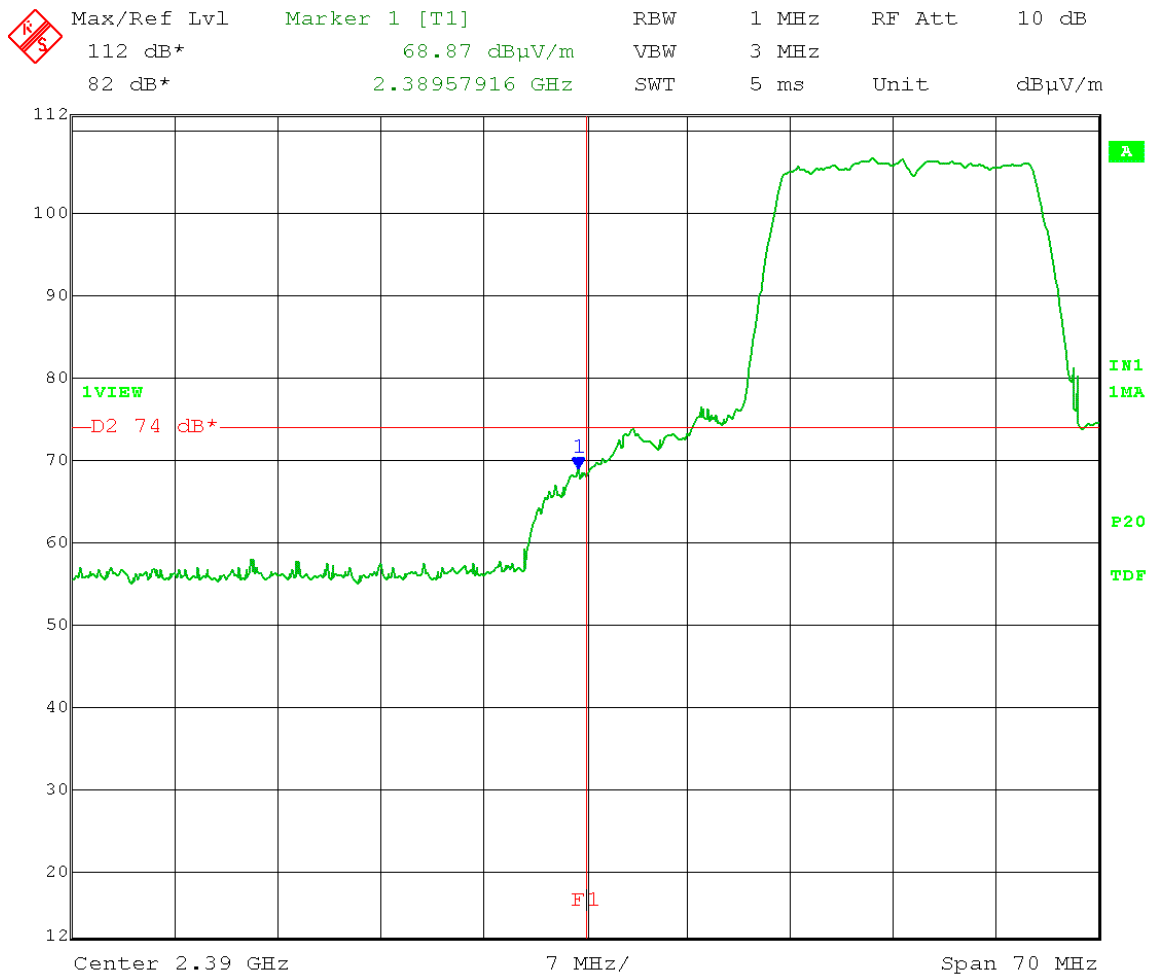
Date: 25.JUL.2016 11:06:51

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: Low, 2412 MHz, **channel 1**
Modulation: 802.11-n, MCS7
Power setting: **10**

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



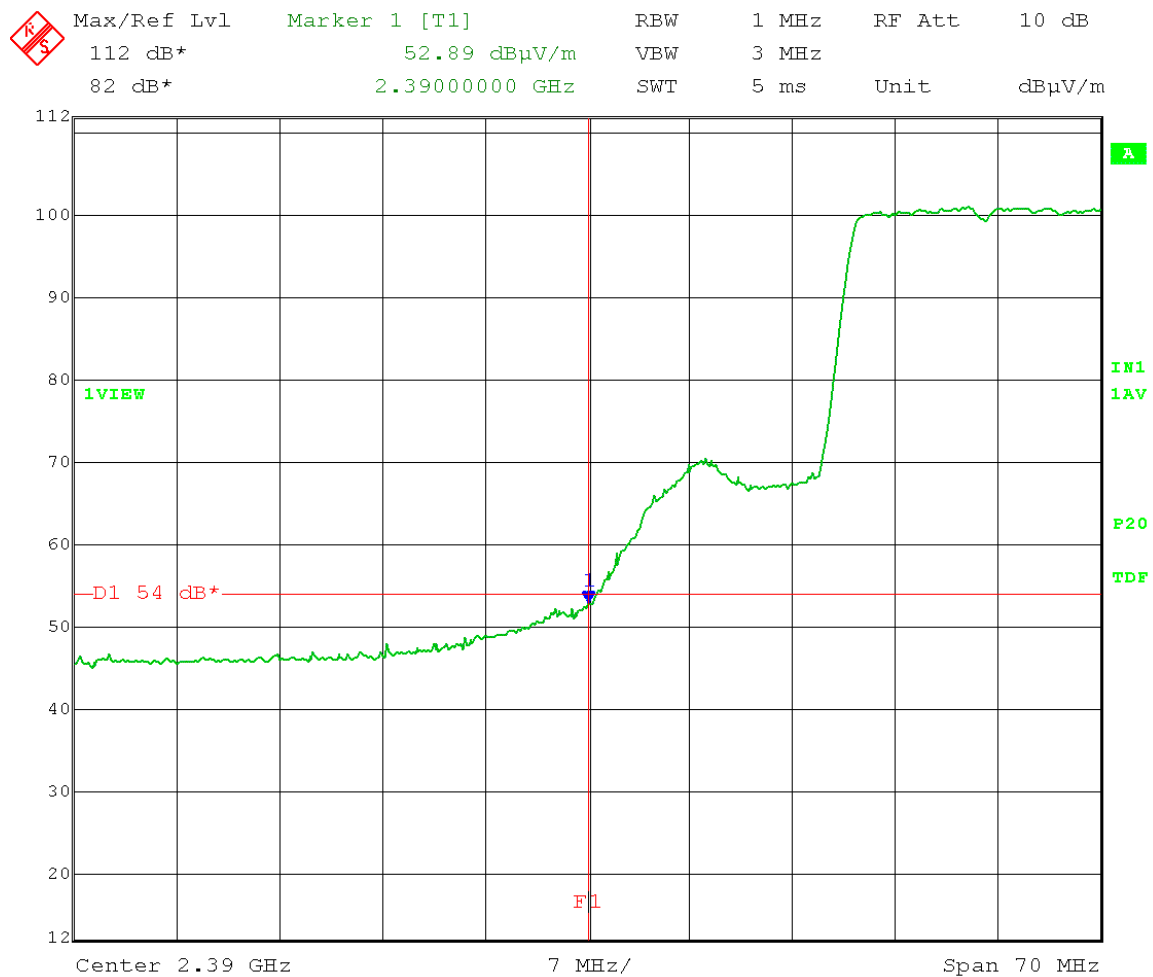
Date: 25.JUL.2016 11:07:36

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2417 MHz, channel 2
Modulation: 802.11-n, MCS7
Power setting: 14

HORIZONTAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



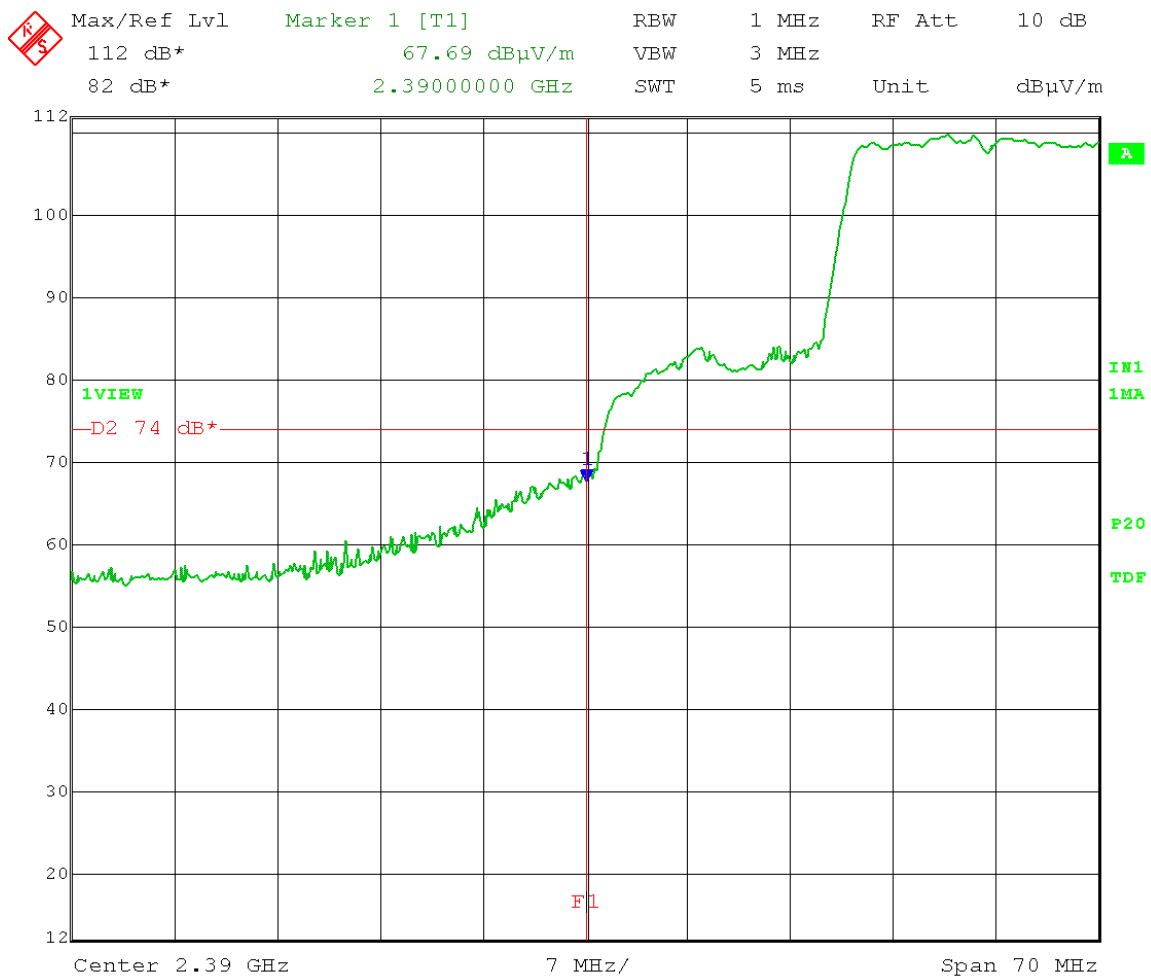
Date: 25.JUL.2016 13:52:06

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2417 MHz, channel 2
Modulation: 802.11-n, MCS7
Power setting: 14

HORIZONTAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



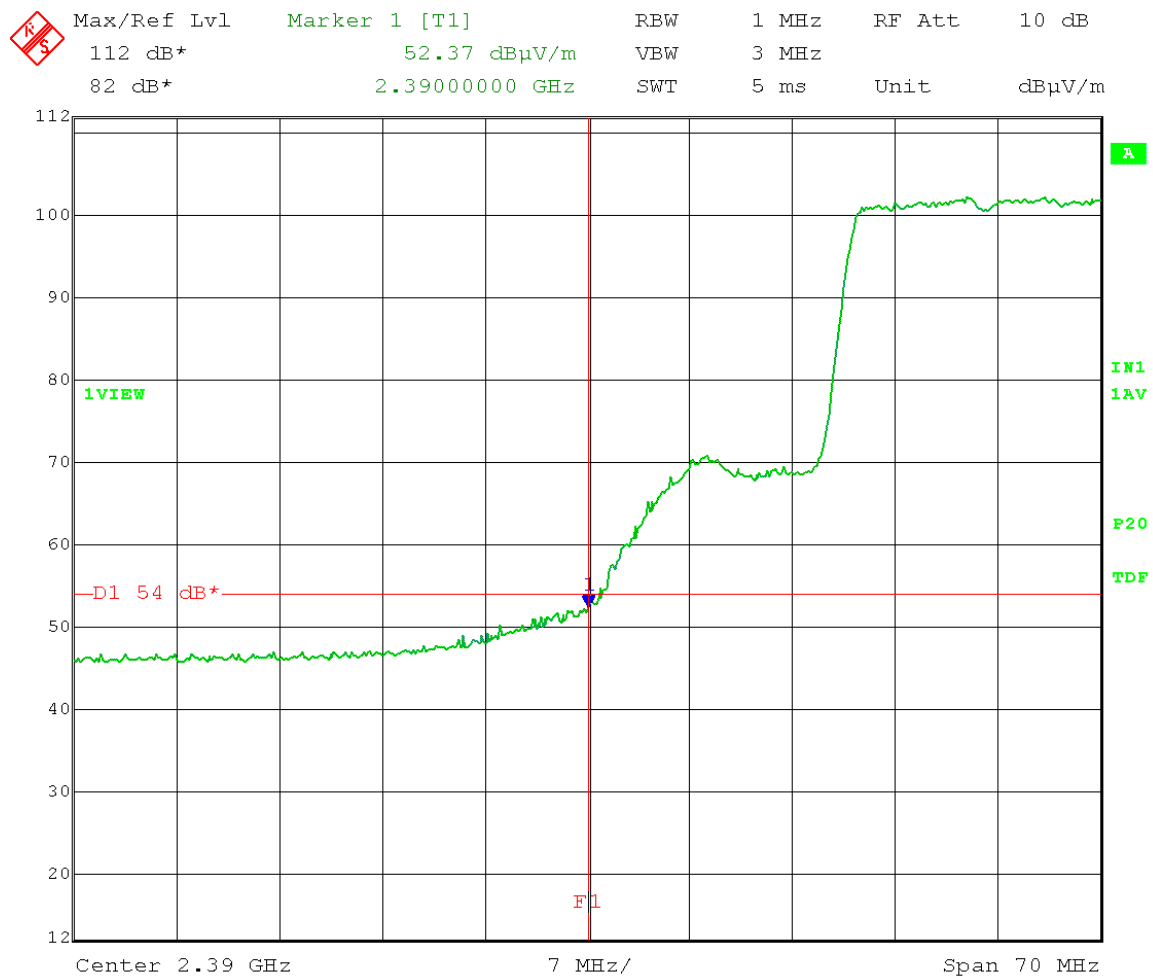
Date: 25.JUL.2016 13:52:37

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2417 MHz, channel 2
Modulation: 802.11-n, MCS7
Power setting: 14

VERTICAL:

AVERAGE: Limit = 54 dB μ V/m @ 3 meters



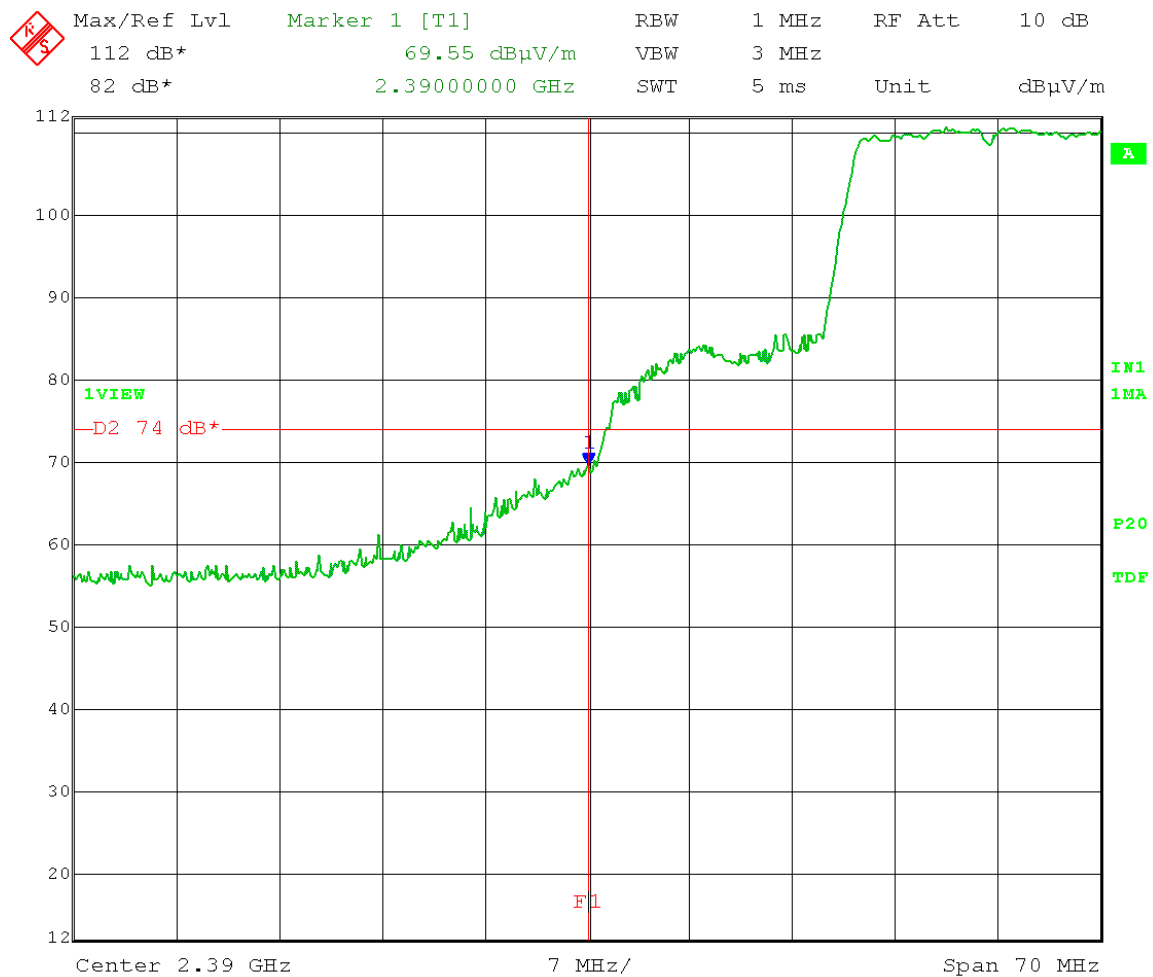
Date: 25.JUL.2016 11:10:14

Test Date: 07-25-2016
Company: Whirlpool Corporation
EUT: Amber
Test: Lower Restricted Band-Edge Radiated
Rule part: FCC Part 15.247(d) and FCC Part 15.205
Operator: Craig B

Antenna: External dipole antenna
Channel: 2417 MHz, channel 2
Modulation: 802.11-n, MCS7
Power setting: 14

VERTICAL:

PEAK: Limit = 74 dB μ V/m @ 3 meters



Date: 25.JUL.2016 11:10:54



Company:
Model Tested:
Report Number:
DLS Project:

Whirlpool Corporation
WICHAM01
22032
8095

166 South Carter, Genoa City, WI 53128

Appendix B

B3.0 AC Line Conducted Emissions

Rule Part:

FCC Part 15.207

Test Procedure:

ANSI C63.10-2013

6.2 Standard test method for AC power-line conducted emissions from unlicensed wireless devices

Limit:

FCC Part 15.207(a)

Results:

Compliant

Notes:

The EUT was powered with 12 V DC through an external AC/DC power supply (HON-KWANG, model HK-CP12-A12) that was connected to a Line Impedance Stabilization Network. The EUT was set to transmit at its maximum output power setting of 18 in 802.11-b mode, a modulating signal representative of the worst-case signal encountered in a real system operation.



Report issuing date : 03-28-2016

Standard : FCC Part 15.207
Test Type : Voltage Mains
Test Site : DLS O.F. Screen Room
Temperature : 70°F
Humidity : 32%
Test Specs : Line 1; Continuous transmit mode; Quasi-Peak
Operator : Craig B
DLS Project # : 8095
Result : Pass

EUT

Manufacturer : Whirlpool Corporation
Model : Amber
Product : WiFi module
Notes : 120 V 60 Hz

Testing Company : DLS Electronic Systems, Inc.
Telephone : 262-279-0210
Web site : <http://www.dlsemc.com>

Receiver Details

Model : PMM 9010F
Brand : Narda
S/N : 020WW40102
Last Calibration : 06/25/2015

NOTE: The column in the table that is labeled "delta" shows the margin in dB with respect to the limit. A negative number indicates the level of the emission is under the limit by the given value, while a positive number indicates the emission level is above the limit by the given value.



7620 Whirlpool Amber 120V 60Hz L1

	Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
1	0.15	30	AUTO (2.045 kHz)	P Q C	1500 ms	9 kHz	10	OFF	ON	...	...

Ancillary = General
Nr. of Worst = Infinite (3)

Limits:
Class B V QP

Factors:
LISN DLS#128
E-M L705
DLS #592
Cables 43 & 45

QPeak —

8095 Whirlpool Amber 120V 60Hz L1 28/03/2016 09:50:32

Rel. SW 2.22 (August 2015)

Rel. FW 1.45 27/03/15

Margin: 22 dB

	Frequency	QPeak	Limit	Delta	Factor	Factor	Factor	Factor
	[MHz]	[dBμV]	Class B V..	[dB]	LISN DLS#..	E-M L705	DLS #592	Cables 43..
			[dBμV]		[dB]	[dB]	[dB]	[dB]
1	0.16636	43.21	65.14	-21.93	1.46	9.83	1.91	0.07
2	0.168405	47.59	65.04	-17.45	1.43	9.83	1.89	0.07
3	0.17045	48.78	64.94	-16.16	1.40	9.82	1.88	0.08
4	0.172495	48.78	64.84	-16.06	1.38	9.82	1.86	0.08
5	0.17454	47.75	64.74	-16.99	1.36	9.81	1.85	0.08
6	0.176585	44.49	64.64	-20.15	1.34	9.81	1.83	0.09
7	0.205215	42.33	63.40	-21.07	1.09	9.84	1.66	0.10
8	0.20726	42.34	63.31	-20.97	1.08	9.84	1.65	0.10
9	0.209305	41.44	63.23	-21.79	1.06	9.84	1.64	0.10
10	0.41176	36.23	57.61	-21.38	0.52	9.96	1.08	0.03
11	0.413805	36.46	57.57	-21.11	0.51	9.96	1.08	0.03
12	0.41585	36.08	57.53	-21.45	0.51	9.96	1.07	0.03



Report issuing date : 03-28-2016

Standard : FCC Part 15.207
Test Type : Voltage Mains
Test Site : DLS O.F. Screen Room
Temperature : 70°F
Humidity : 32%
Test Specs : Line 1; Continuous transmit mode; Average
Operator : Craig B
DLS Project # : 8095
Result : Pass

EUT

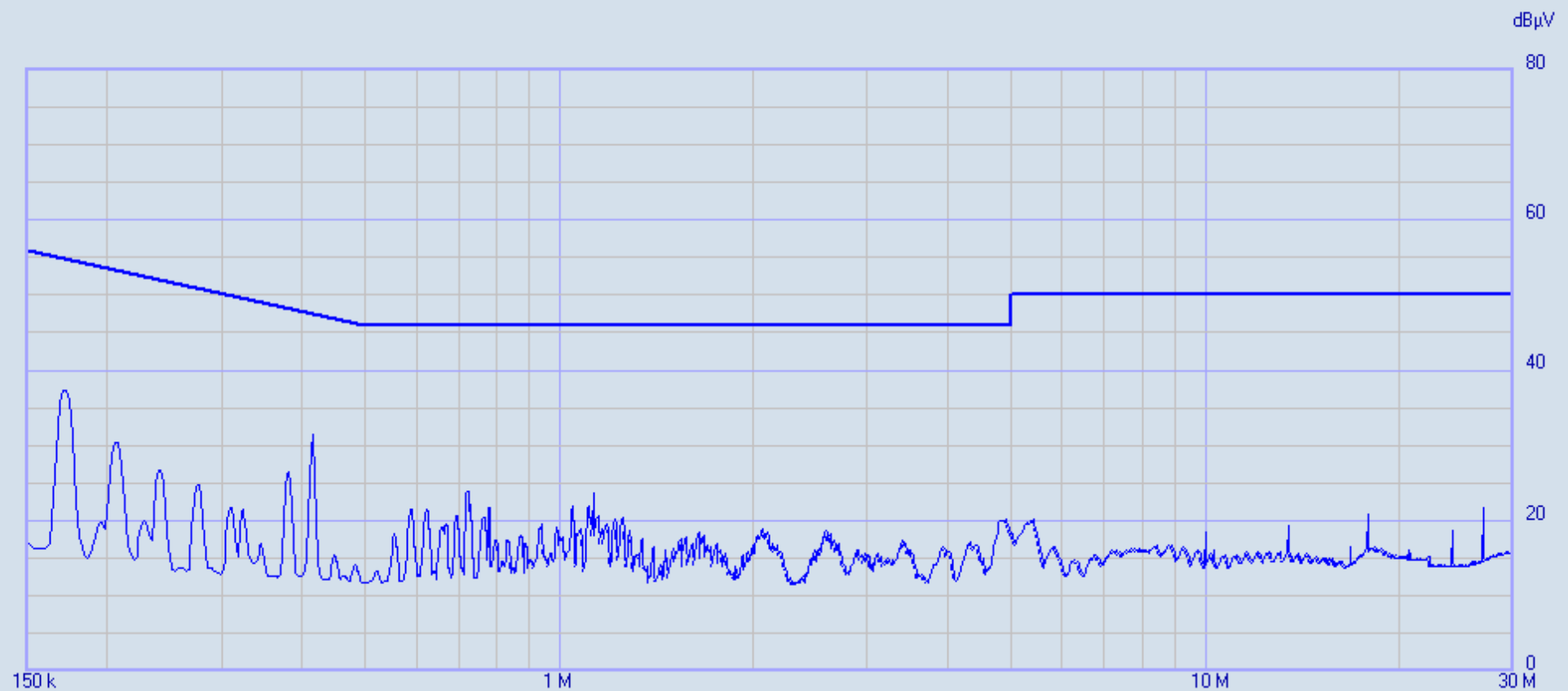
Manufacturer : Whirlpool Corporation
Model : Amber
Product : WiFi module
Notes : 120 V 60 Hz

Testing Company : DLS Electronic Systems, Inc.
Telephone : 262-279-0210
Web site : <http://www.dlsemc.com>

Receiver Details

Model : PMM 9010F
Brand : Narda
S/N : 020WW40102
Last Calibration : 06/25/2015

NOTE: The column in the table that is labeled "delta" shows the margin in dB with respect to the limit. A negative number indicates the level of the emission is under the limit by the given value, while a positive number indicates the emission level is above the limit by the given value.



7620 Whirlpool Amber 120V 60Hz L1

	Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
1	0.15	30	AUTO (2.045 kHz)	P Q C	1500 ms	9 kHz	10	OFF	ON	...	...

Ancillary = General
Nr. of Worst = Infinite (3)

Limits:
Class B VAV

Factors:
LISN DLS#128
E-M L705
DLS #592
Cables 43 & 45

C-Avg —

8095 Whirlpool Amber 120V 60Hz L1 28/03/2016 09:50:32

Rel. SW 2.22 (August 2015)

Rel. FW 1.45 27/03/15

Margin: 22 dB

	Frequency	C-Avg	Limit	Delta	Factor	Factor	Factor	Factor
	[MHz]	[dBμV]	Class B V..	[dB]	LISN DLS#..	E-M L705	DLS #592	Cables 43..
			[dBμV]		[dB]	[dB]	[dB]	[dB]
1	0.168405	35.46	55.04	-19.58	1.43	9.83	1.89	0.07
2	0.17045	37.34	54.94	-17.60	1.40	9.82	1.88	0.08
3	0.172495	37.37	54.84	-17.47	1.38	9.82	1.86	0.08
4	0.17454	36.09	54.74	-18.65	1.36	9.81	1.85	0.08
5	0.381085	26.43	48.26	-21.83	0.55	9.97	1.14	0.06
6	0.41176	29.36	47.61	-18.25	0.52	9.96	1.08	0.03
7	0.413805	31.34	47.57	-16.23	0.51	9.96	1.08	0.03
8	0.41585	31.26	47.53	-16.27	0.51	9.96	1.07	0.03
9	0.417895	29.32	47.49	-18.17	0.51	9.96	1.07	0.03
10	0.41994	25.77	47.45	-21.68	0.51	9.96	1.06	0.03



Report issuing date : 03-28-2016

Standard : FCC Part 15.207
Test Type : Voltage Mains
Test Site : DLS O.F. Screen Room
Temperature : 70°F
Humidity : 32%
Test Specs : Line 2; Continuous transmit mode; Quasi-Peak
Operator : Craig B
DLS Project # : 8095
Result : Pass

EUT

Manufacturer : Whirlpool Corporation
Model : Amber
Product : WiFi module
Notes : 120 V 60 Hz

Testing Company : DLS Electronic Systems, Inc.
Telephone : 262-279-0210
Web site : <http://www.dlsemc.com>

Receiver Details

Model : PMM 9010F
Brand : Narda
S/N : 020WW40102
Last Calibration : 06/25/2015

NOTE: The column in the table that is labeled "delta" shows the margin in dB with respect to the limit. A negative number indicates the level of the emission is under the limit by the given value, while a positive number indicates the emission level is above the limit by the given value.



7620 Whirlpool Amber 120V 60Hz L2

	Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
1	0.15	30	AUTO (2.045 kHz)	P Q C	1500 ms	9 kHz	10	OFF	ON	...	...

Ancillary = General
Nr. of Worst = Infinite (3)

Limits:
Class B V QP

Factors:
LISN DLS#128
E-M L705
DLS #592
Cables 43 & 45

QPeak —

8095 Whirlpool Amber 120V 60Hz L2 28/03/2016 09:59:38

Rel. SW 2.22 (August 2015)

Rel. FW 1.45 27/03/15

Margin: 22 dB

	Frequency	QPeak	Limit	Delta	Factor	Factor	Factor	Factor
	[MHz]	[dBμV]	Class B V..	[dB]	LISN DLS#..	E-M L705	DLS #592	Cables 43..
			[dBμV]		[dB]	[dB]	[dB]	[dB]
1	0.168405	44.32	65.04	-20.72	1.43	9.83	1.89	0.07
2	0.17045	45.34	64.94	-19.60	1.40	9.82	1.88	0.08
3	0.172495	45.29	64.84	-19.55	1.38	9.82	1.86	0.08
4	0.17454	44.99	64.74	-19.75	1.36	9.81	1.85	0.08
5	0.176585	44.60	64.64	-20.04	1.34	9.81	1.83	0.09
6	0.17863	43.35	64.55	-21.20	1.32	9.81	1.82	0.09
7	0.389265	36.16	58.08	-21.92	0.54	9.97	1.13	0.05
8	0.39131	36.07	58.04	-21.97	0.54	9.97	1.13	0.04
9	0.41176	36.58	57.61	-21.03	0.52	9.96	1.08	0.03
10	0.413805	36.73	57.57	-20.84	0.51	9.96	1.08	0.03
11	0.41585	36.27	57.53	-21.26	0.51	9.96	1.07	0.03
12	0.417895	35.55	57.49	-21.94	0.51	9.96	1.07	0.03



Report issuing date : 03-28-2016

Standard : FCC Part 15.207
Test Type : Voltage Mains
Test Site : DLS O.F. Screen Room
Temperature : 70°F
Humidity : 32%
Test Specs : Line 2; Continuous transmit mode; Average
Operator : Craig B
DLS Project # : 8095
Result : Pass

EUT

Manufacturer : Whirlpool Corporation
Model : Amber
Product : WiFi module
Notes : 120 V 60 Hz

Testing Company : DLS Electronic Systems, Inc.
Telephone : 262-279-0210
Web site : <http://www.dlsemc.com>

Receiver Details

Model : PMM 9010F
Brand : Narda
S/N : 020WW40102
Last Calibration : 06/25/2015

NOTE: The column in the table that is labeled "delta" shows the margin in dB with respect to the limit. A negative number indicates the level of the emission is under the limit by the given value, while a positive number indicates the emission level is above the limit by the given value.



7620 Whirlpool Amber 120V 60Hz L2

	Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
1	0.15	30	AUTO (2.045 kHz)	P Q C	1500 ms	9 kHz	10	OFF	ON	...	...

Ancillary = General
Nr. of Worst = Infinite (3)

Limits:
Class B VAV

Factors:
LISN DLS#128
E-M L705
DLS #592
Cables 43 & 45

C-Avg

8095 Whirlpool Amber 120V 60Hz L2 28/03/2016 09:59:38

Rel. SW 2.22 (August 2015)

Rel. FW 1.45 27/03/15

Margin: 20 dB

	Frequency	C-Avg	Limit	Delta	Factor	Factor	Factor	Factor
	[MHz]	[dBμV]	Class B V..	[dB]	LISN DLS#..	E-M L705	DLS #592	Cables 43..
			[dBμV]		[dB]	[dB]	[dB]	[dB]
1	0.168405	35.06	55.04	-19.98	1.43	9.83	1.89	0.07
2	0.17045	36.73	54.94	-18.21	1.40	9.82	1.88	0.08
3	0.172495	36.75	54.84	-18.09	1.38	9.82	1.86	0.08
4	0.17454	36.86	54.74	-17.88	1.36	9.81	1.85	0.08
5	0.176585	36.07	54.64	-18.57	1.34	9.81	1.83	0.09
6	0.38722	28.33	48.12	-19.79	0.54	9.97	1.13	0.05
7	0.41176	29.84	47.61	-17.77	0.52	9.96	1.08	0.03
8	0.413805	31.43	47.57	-16.14	0.51	9.96	1.08	0.03
9	0.41585	30.97	47.53	-16.56	0.51	9.96	1.07	0.03
10	0.417895	28.49	47.49	-19.00	0.51	9.96	1.07	0.03
11	0.41994	27.84	47.45	-19.61	0.51	9.96	1.06	0.03
12	0.421985	28.38	47.41	-19.03	0.51	9.96	1.06	0.03



Company: Whirlpool Corporation
 Model Tested: WICHAM01
 Report Number: 22032
 DLS Project: 8095

166 South Carter, Genoa City, WI 53128

Appendix C – Measurement Uncertainty

Compliance with the limits in this standard are based on the results of the compliance measurement. Our calculated measurement uncertainty including the measurement instrumentation, associated connections between the various instruments in the measurement chain, and other contributions, are provided in this section of the test report.

Radiated Emissions from 30 MHz to 18 GHz

		Uncertainty (+/- dB)	Uncertainty (+/- dB)	Uncertainty (+/- dB)	Uncertainty (+/- dB)	Uncertainty (+/- dB)	Uncertainty (+/- dB)	Uncertainty (+/- dB)	Uncertainty (+/- dB)	Uncertainty (+/- dB)
		3M	3M	3M	3M	3M	3M	10M	10M	10M
Contribution	Probability Distribution	30- 100MHz.	100- 700MHz	700- 1000MHz.	1- 4.5Ghz	4.5 - 7Ghz	7 - 18Ghz	30- 100MHz.	100- 700MHz.	700- 1000MHz.
Combined Standard Uncertainty	Normal	1.70	1.62	1.66	2.13	2.48	2.85	1.64	1.58	1.66
Expanded Uncertainty	Normal (k=2)	3.40	3.23	3.33	4.26	4.95	5.69	3.29	3.16	3.31

AC Line Conducted Emissions

		Uncertainty (+/- dB)
Contribution	Probability Distribution	
		150 kHz - 30 MHz
Receiver specification	Rectangular	1.2
LISN coupling specifications	Rectangular	1.2
Cable and input attenuator calibration	Normal	0.25
Mismatch. Receiver VRC=0.09. LISN VRC = 0.05	U Shaped	0.039
System repeatability	Std Deviation	0.35
Repeatability of EUT		0
Combined Standard Uncertainty	Normal	1.05
Expanded Uncertainty	Normal (k=2)	2.10



166 South Carter, Genoa City, WI 53128

Company:	Whirlpool Corporation
Model Tested:	WICHAM01
Report Number:	22032
DLS Project:	8095

END OF REPORT

Revision #	Date	Comments	By
1.0	July 28, 2016	Preliminary Release	CB
2.0	August 25, 2016	Removed data and references to external slot antenna	CB