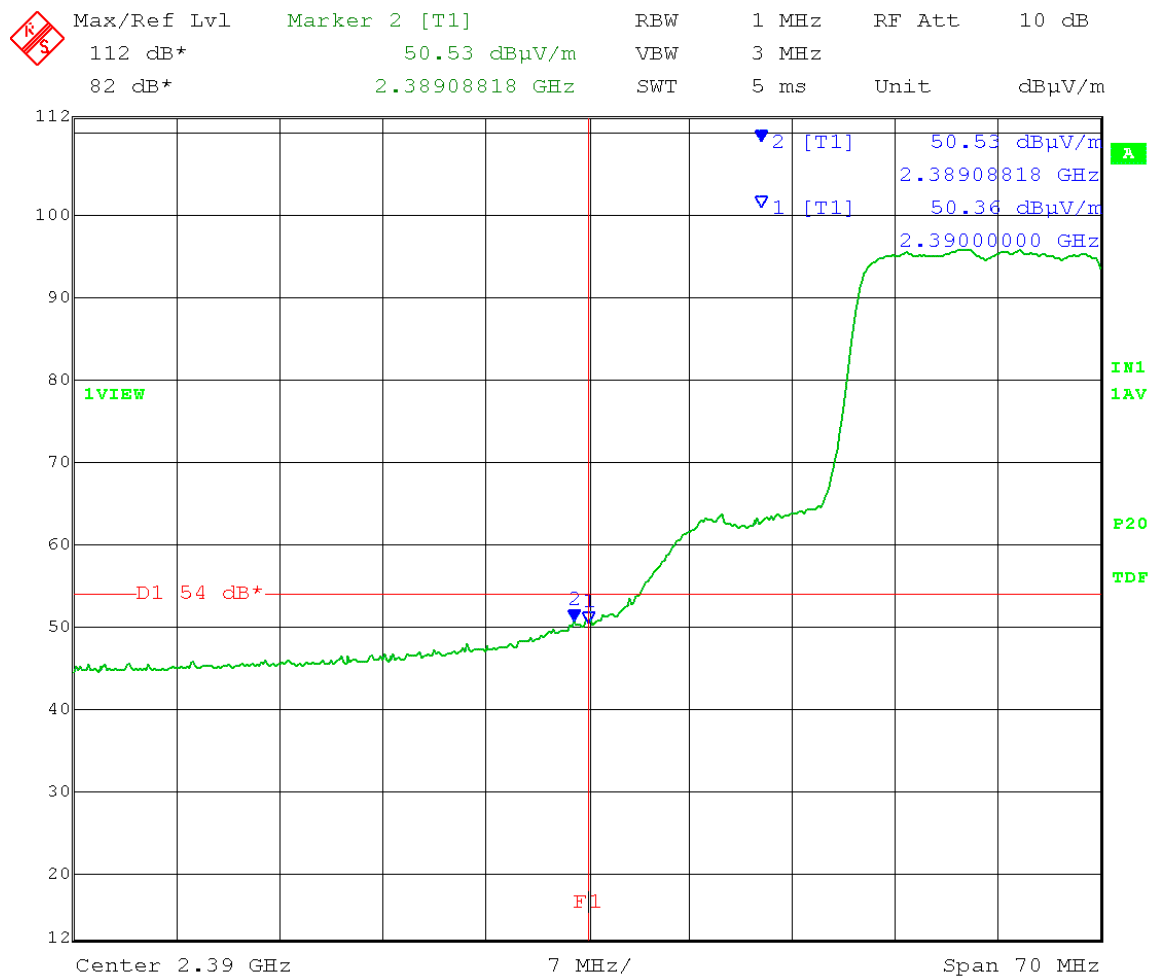


Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Lower Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2417 MHz, channel 2  
Modulation: 802.11-g, 54 Mbps  
Power setting: 17

VERTICAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



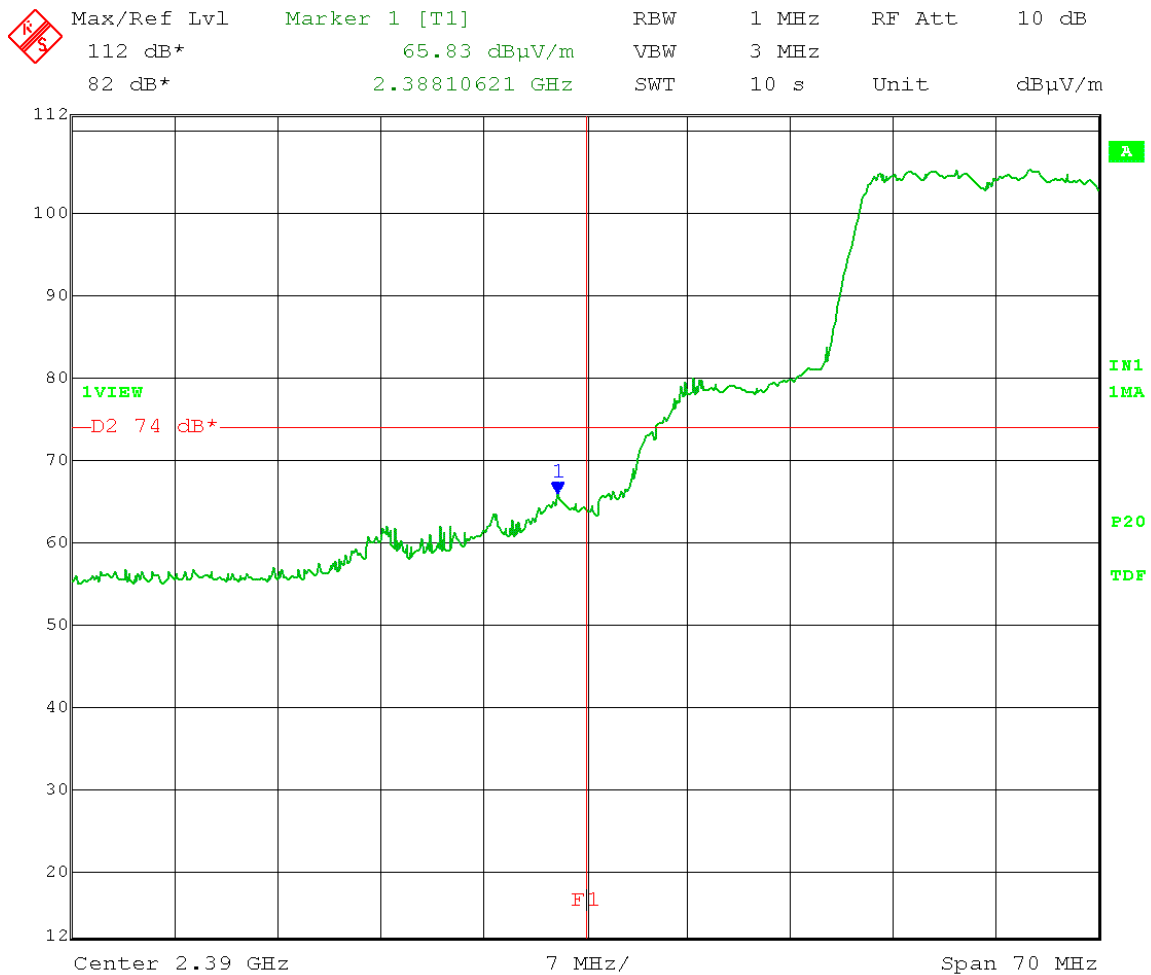
Date: 23.MAR.2017 10:30:47

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Lower Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2417 MHz, channel 2  
Modulation: 802.11-g, 54 Mbps  
Power setting: 17

VERTICAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



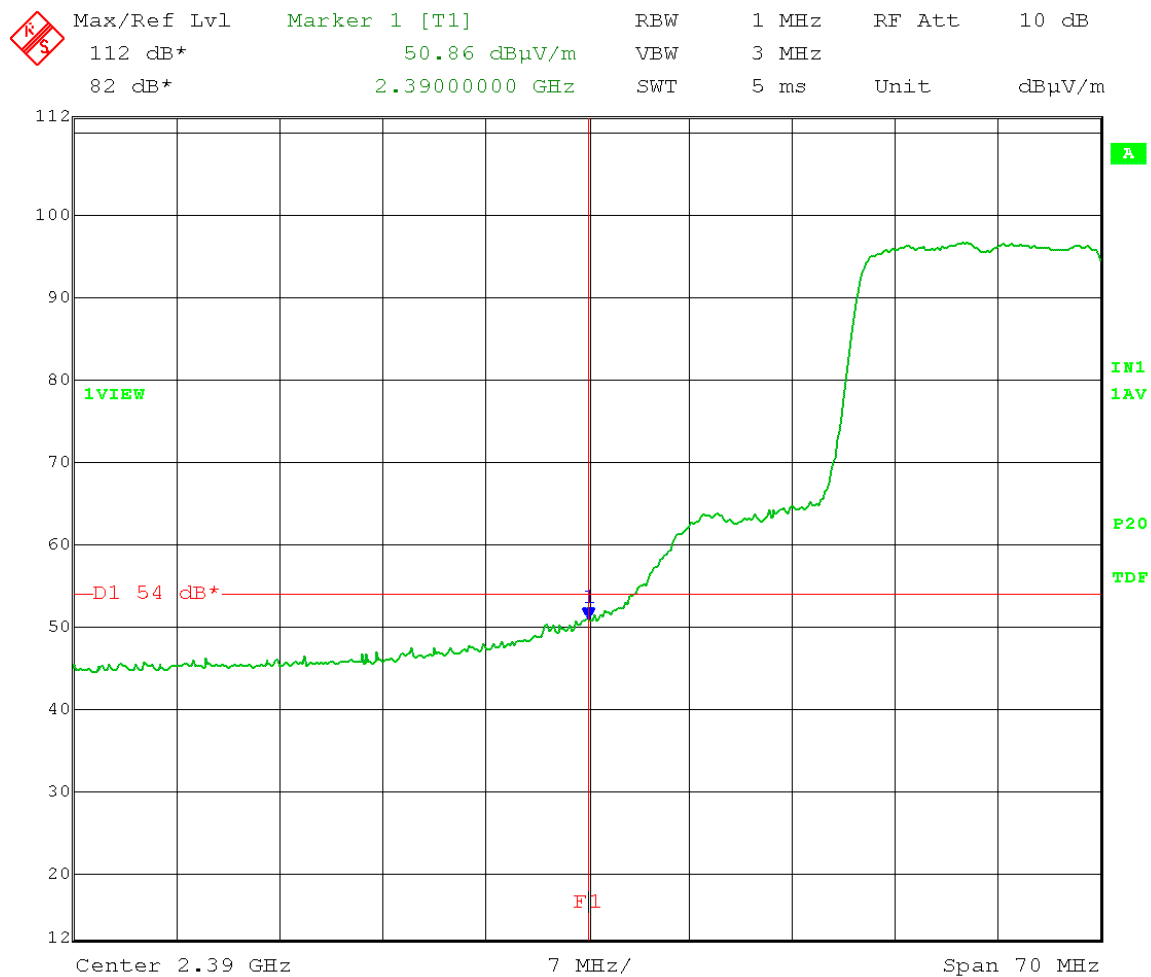
Date: 23.MAR.2017 10:32:21

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Lower Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2417 MHz, channel 2  
Modulation: 802.11-g, 54 Mbps  
Power setting: 17

HORIZONTAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



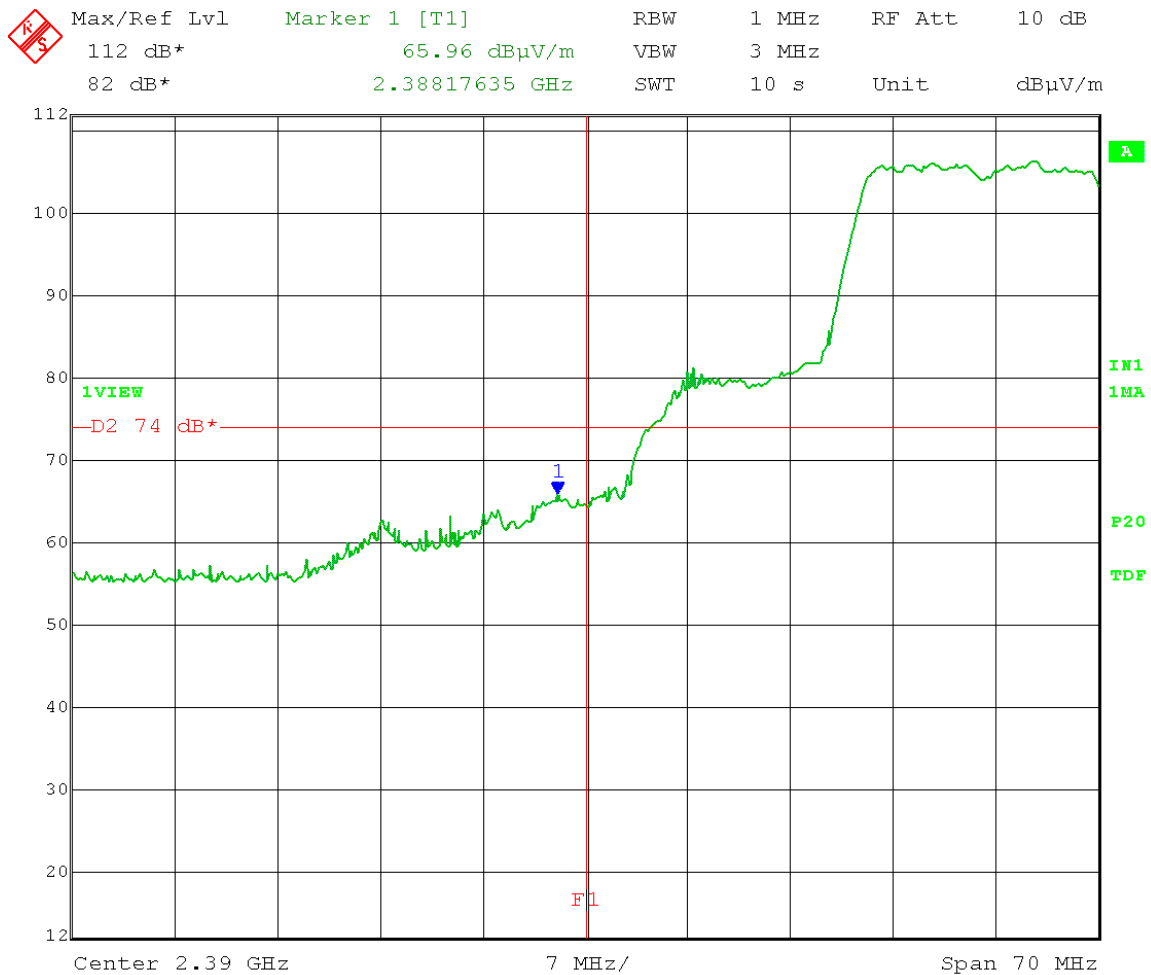
Date: 23.MAR.2017 10:56:58

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Lower Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2417 MHz, channel 2  
Modulation: 802.11-g, 54 Mbps  
Power setting: 17

#### HORIZONTAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters

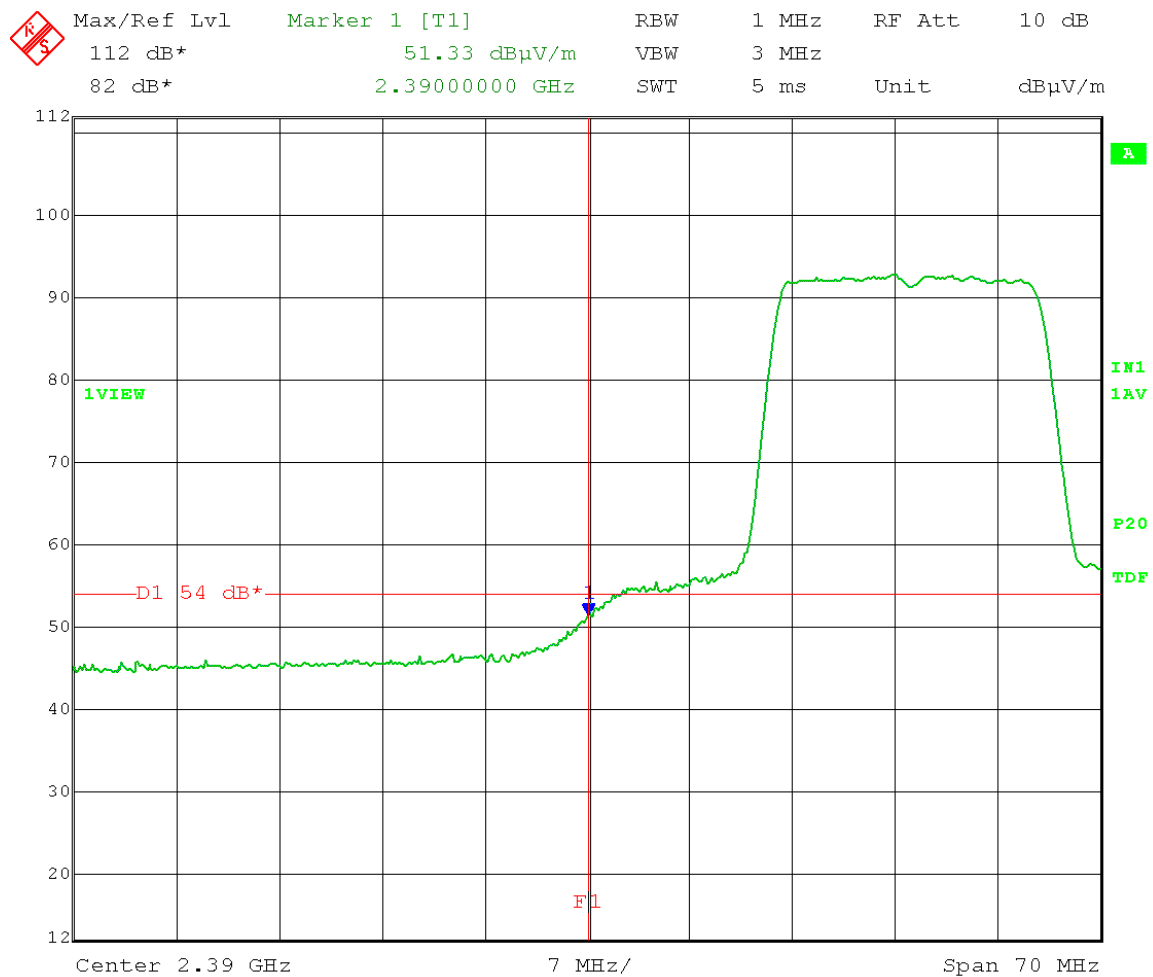


Date: 23.MAR.2017 10:59:17

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Lower Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: Low, 2412 MHz, channel 1  
Modulation: 802.11-n, MCS7  
Power setting: 14

VERTICAL:  
AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



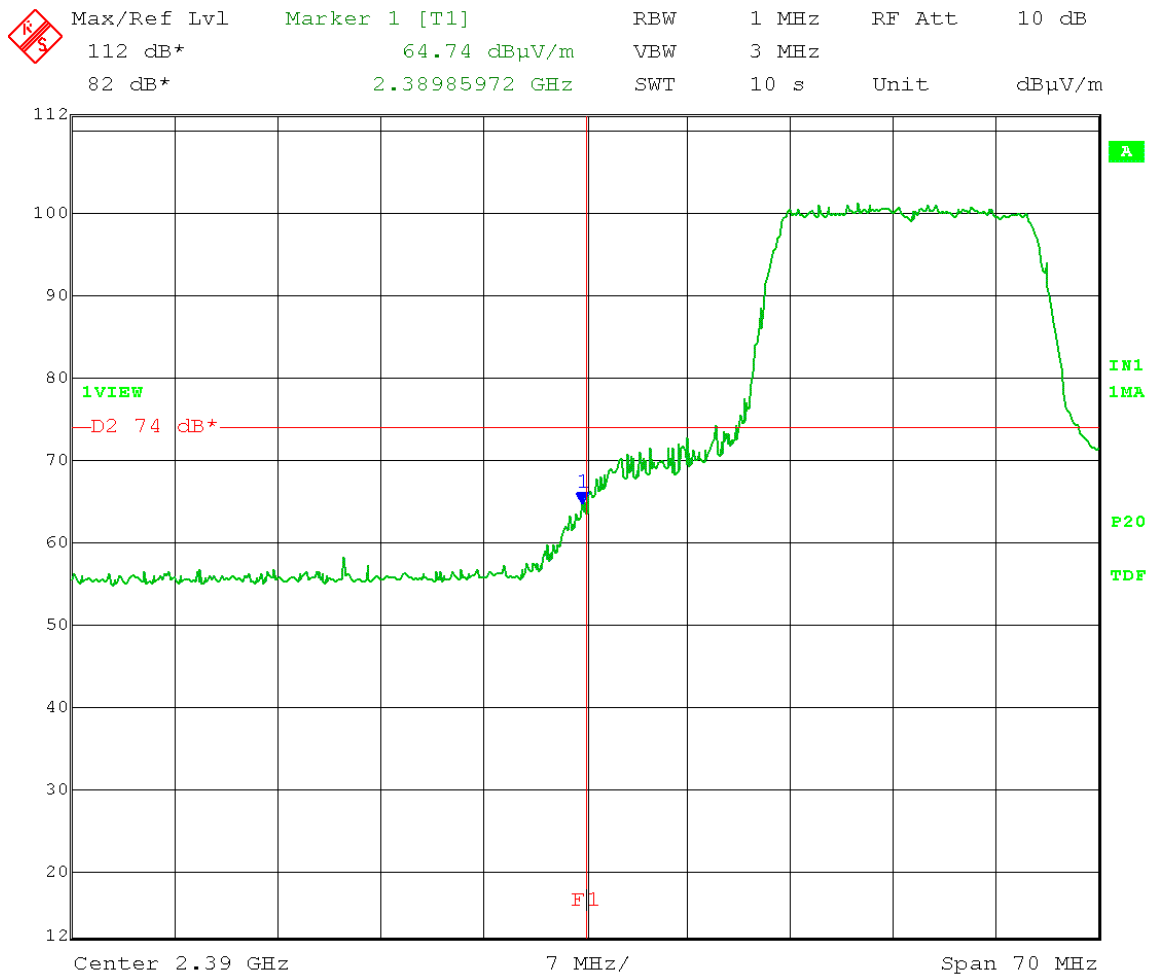
Date: 23.MAR.2017 10:34:43

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Lower Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: Low, 2412 MHz, channel 1  
Modulation: 802.11-n, MCS7  
Power setting: 14

VERTICAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



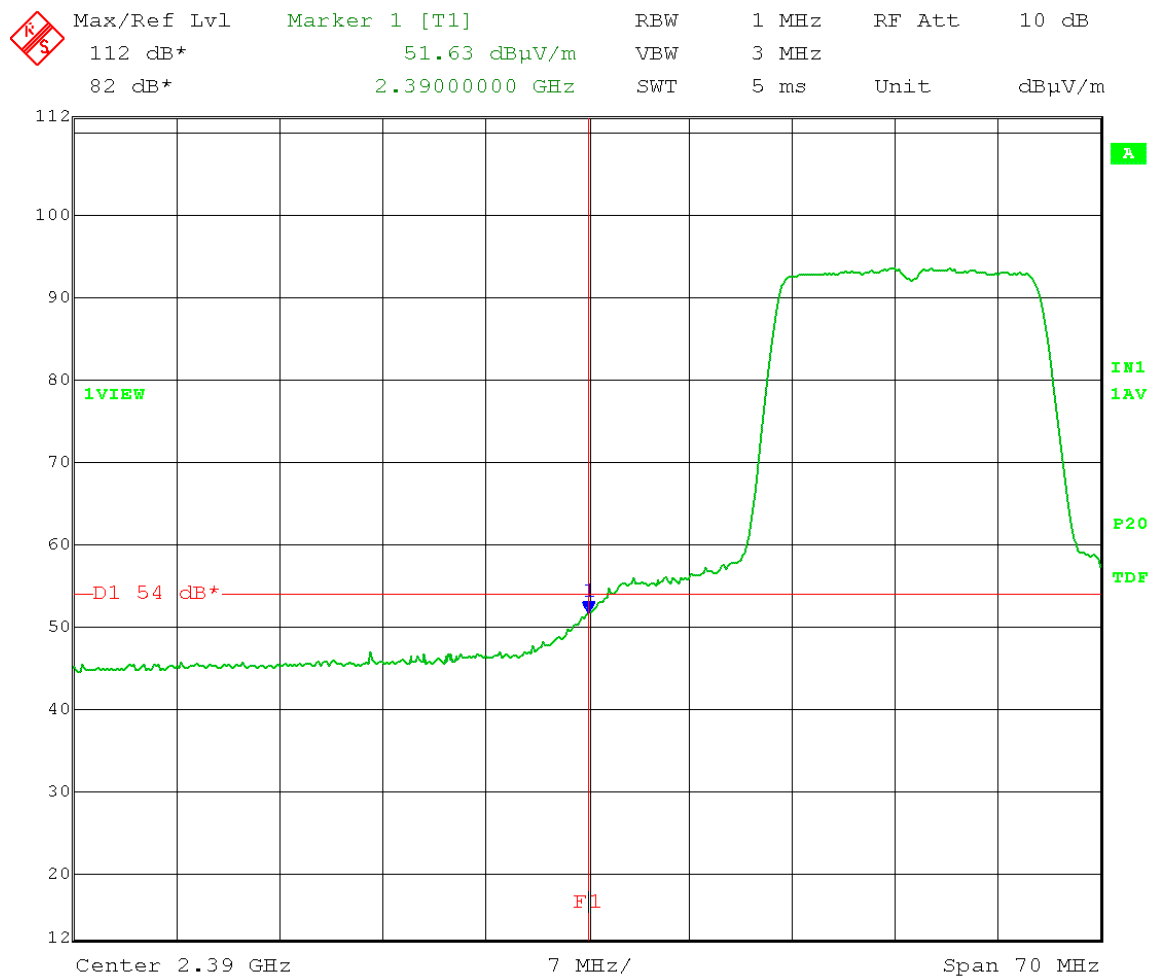
Date: 23.MAR.2017 10:35:55

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Lower Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: Low, 2412 MHz, channel 1  
Modulation: 802.11-n, MCS7  
Power setting: 14

HORIZONTAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



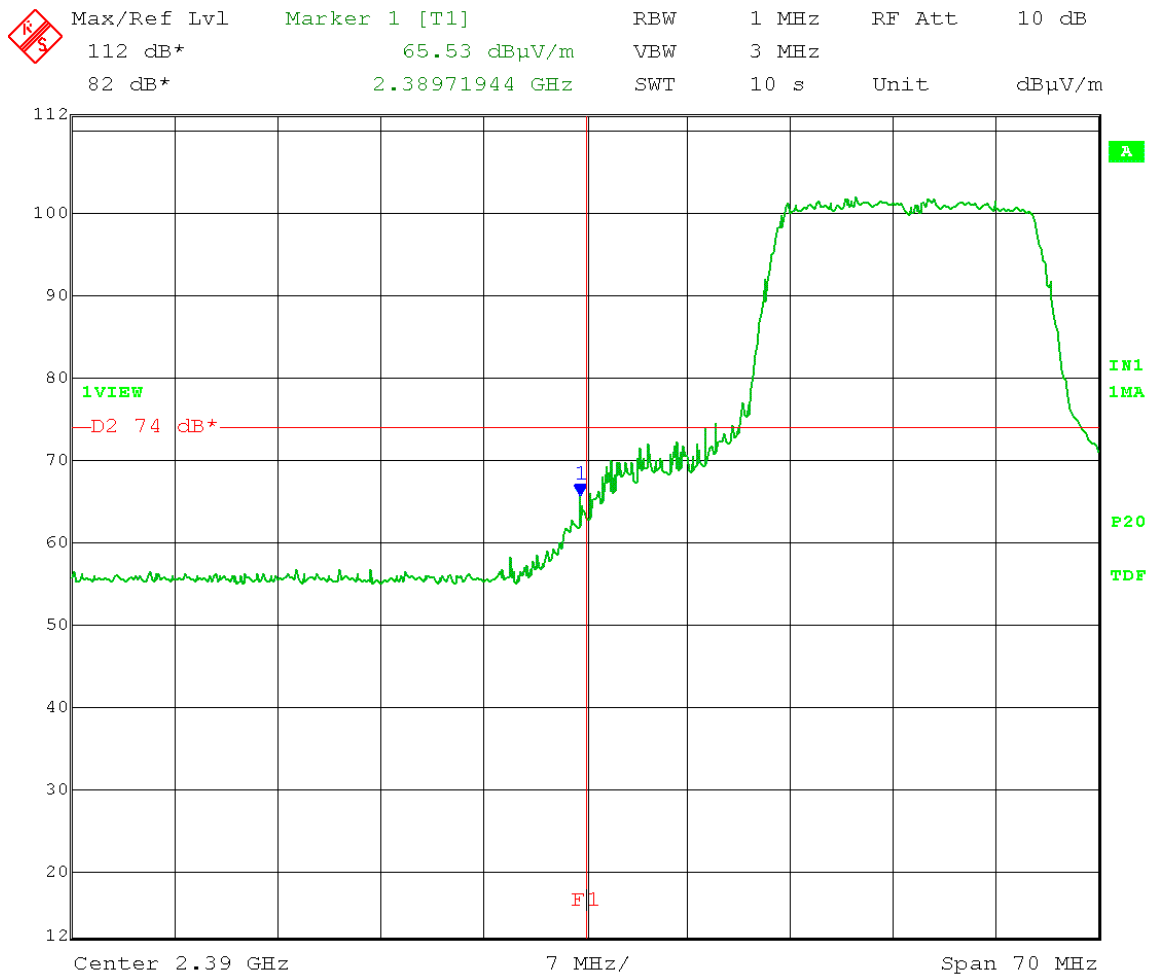
Date: 23.MAR.2017 11:03:01

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Lower Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: Low, 2412 MHz, channel 1  
Modulation: 802.11-n, MCS7  
Power setting: 14

#### HORIZONTAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



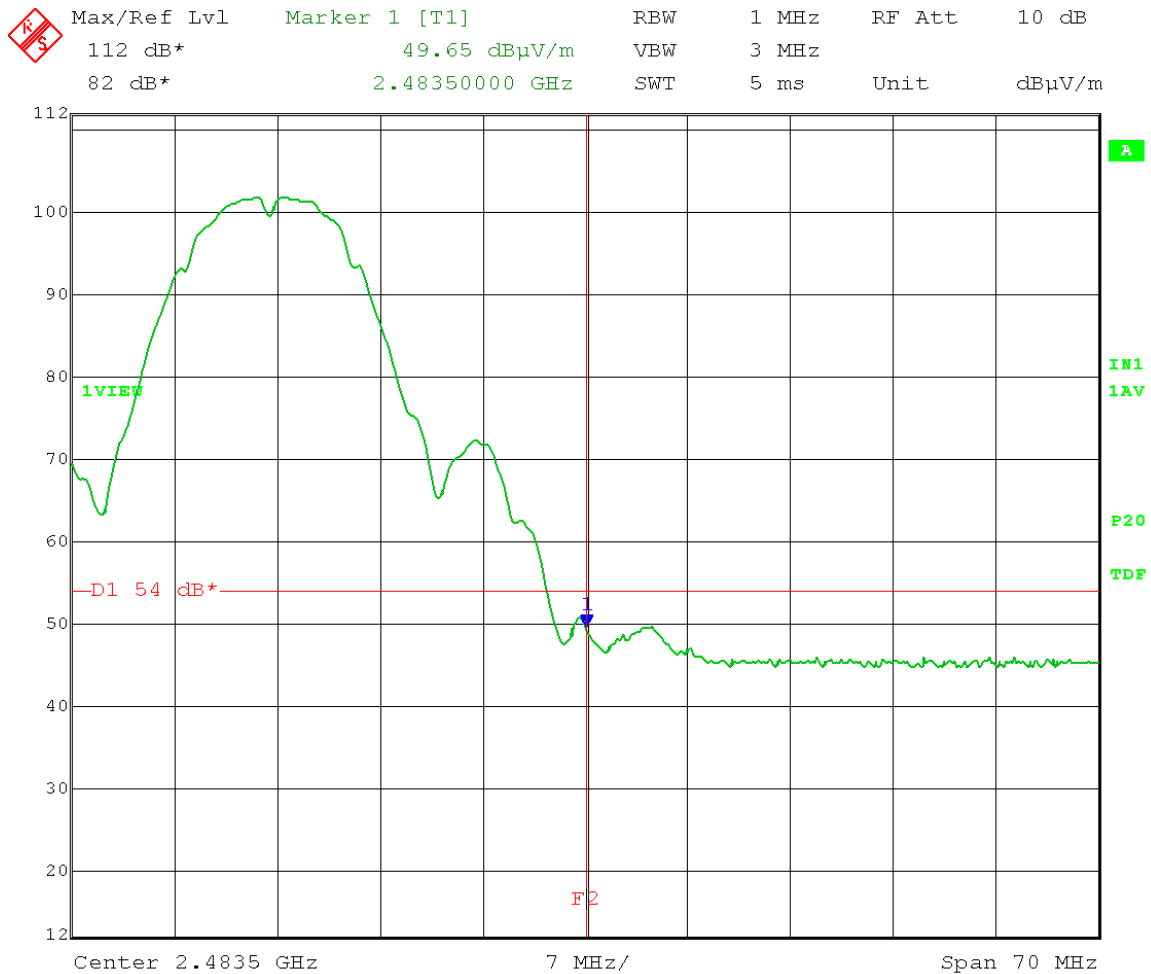
Date: 23.MAR.2017 11:04:17

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: High, 2462 MHz, channel 11  
Modulation: 802.11-b, 1 Mbps  
Power setting: 18

VERTICAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



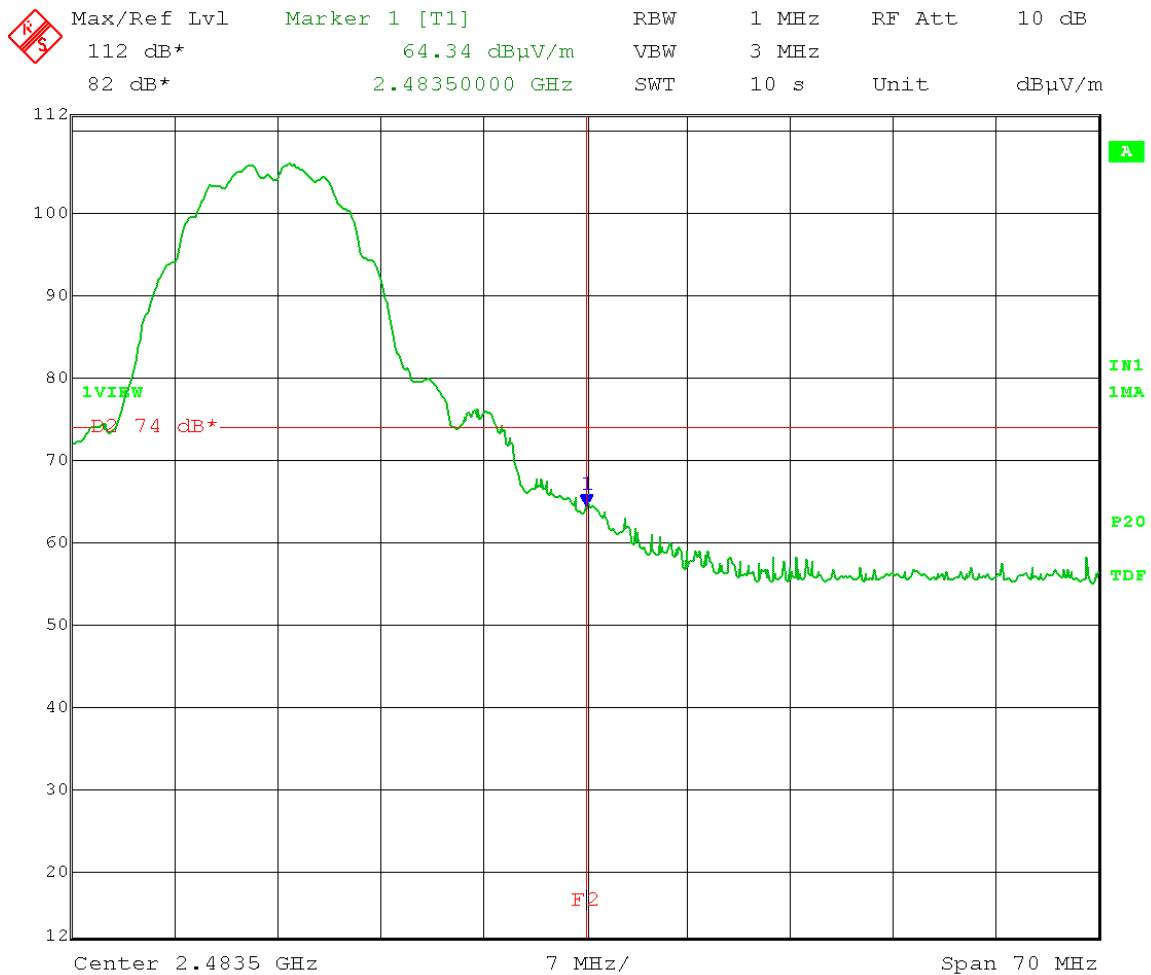
Date: 23.MAR.2017 09:24:25

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: High, 2462 MHz, channel 11  
Modulation: 802.11-b, 1 Mbps  
Power setting: 18

VERTICAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



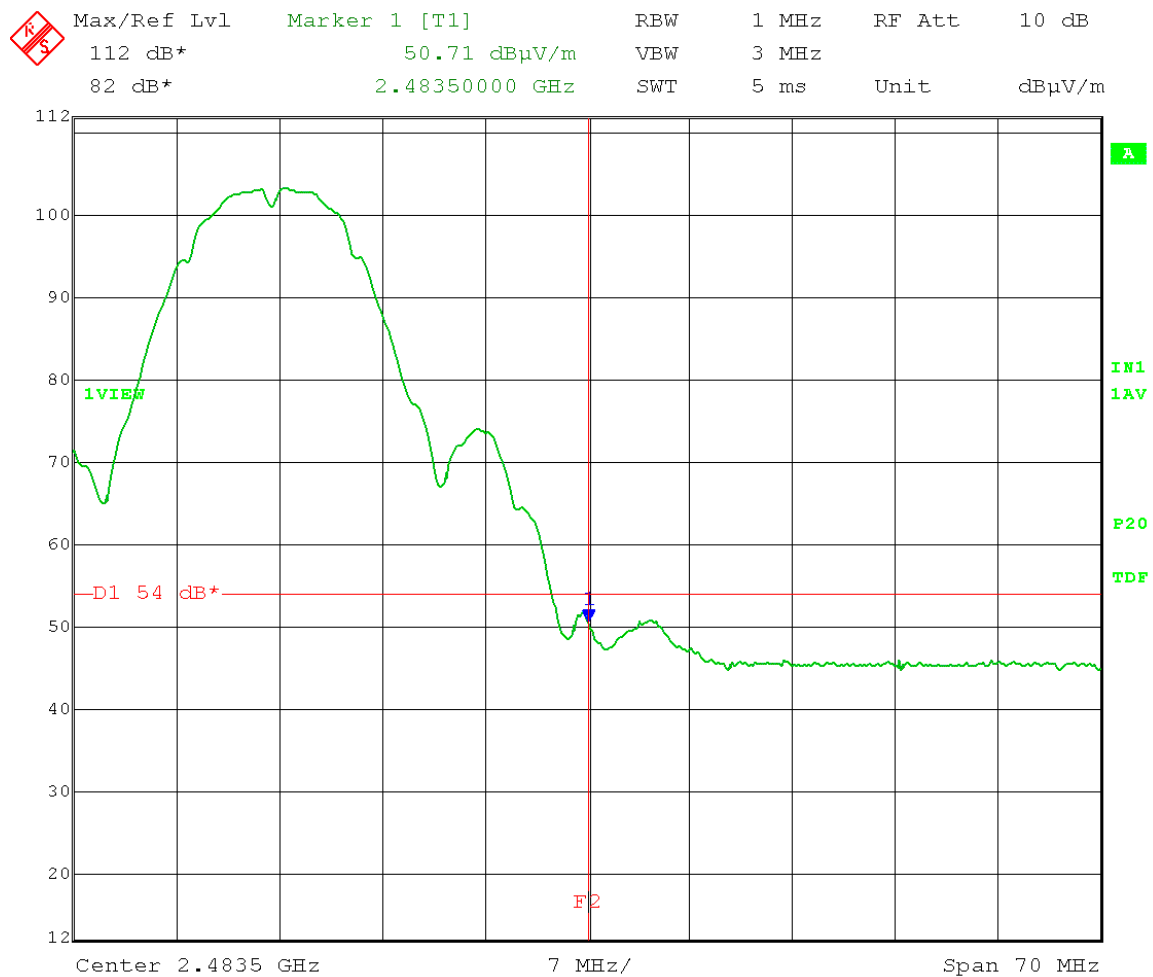
Date: 23.MAR.2017 09:25:35

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: High, 2462 MHz, channel 11  
Modulation: 802.11-b, 1 Mbps  
Power setting: 18

HORIZONTAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



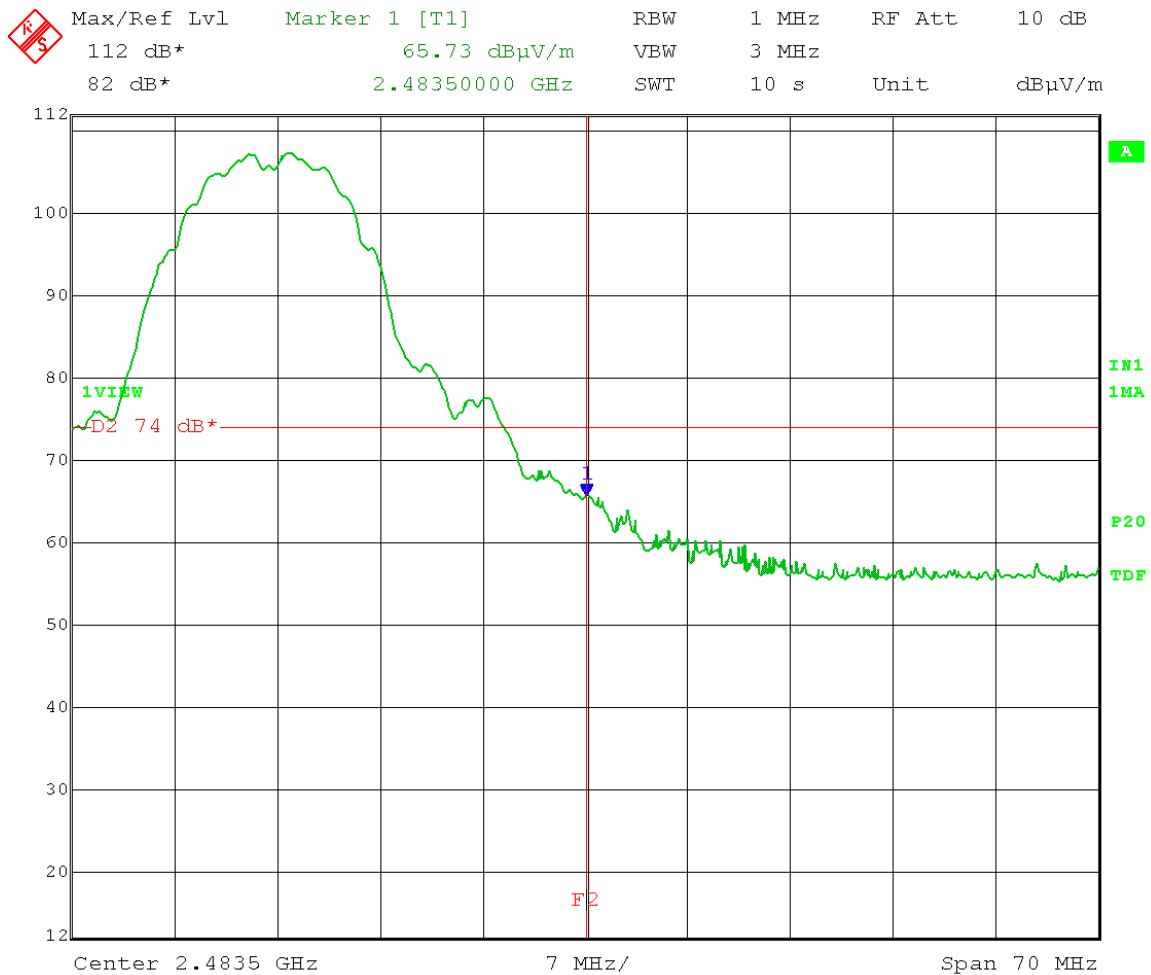
Date: 23.MAR.2017 08:28:01

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: High, 2462 MHz, channel 11  
Modulation: 802.11-b, 1 Mbps  
Power setting: 18

#### HORIZONTAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



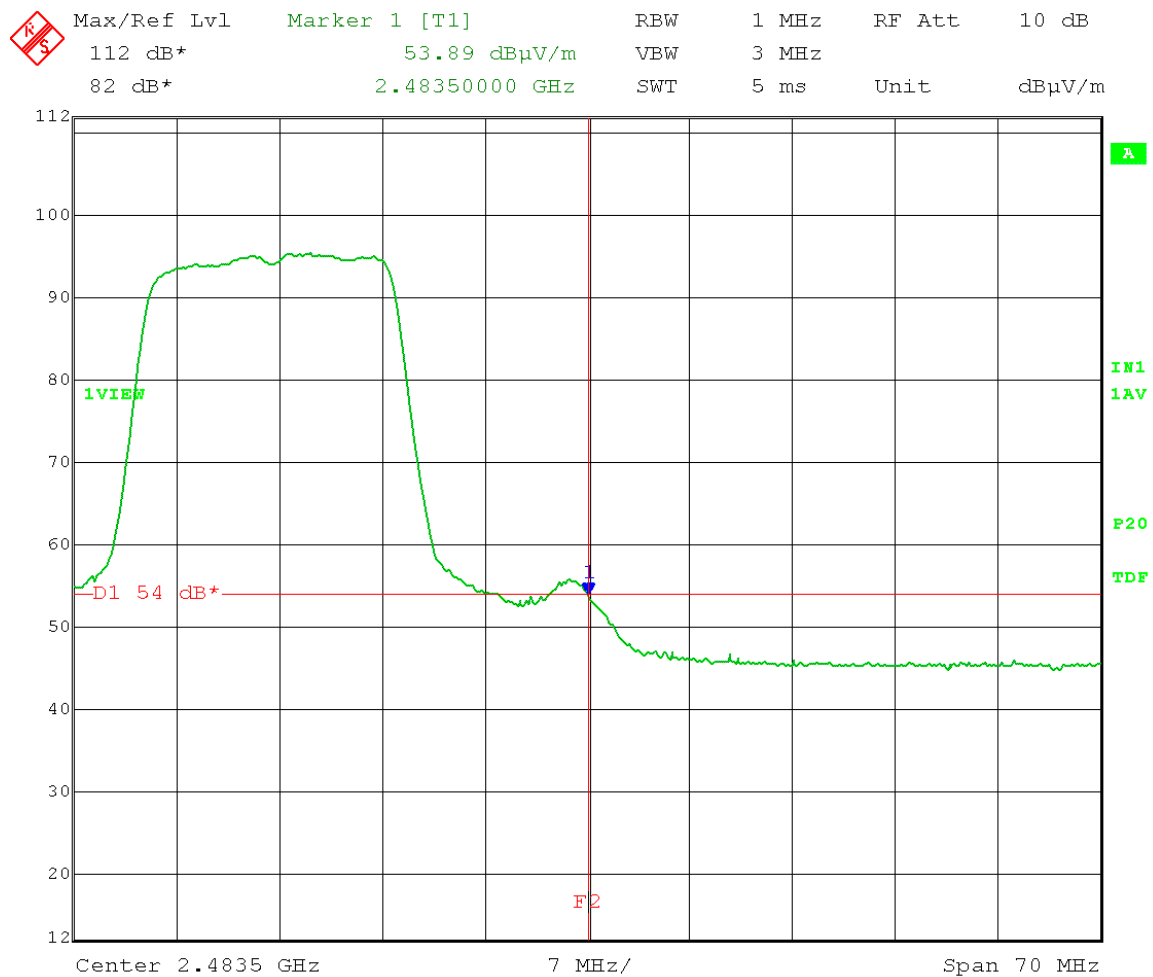
Date: 23.MAR.2017 08:29:18

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: High, 2462 MHz, channel 11  
Modulation: 802.11-g, 54 Mbps  
Power setting: 13

VERTICAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



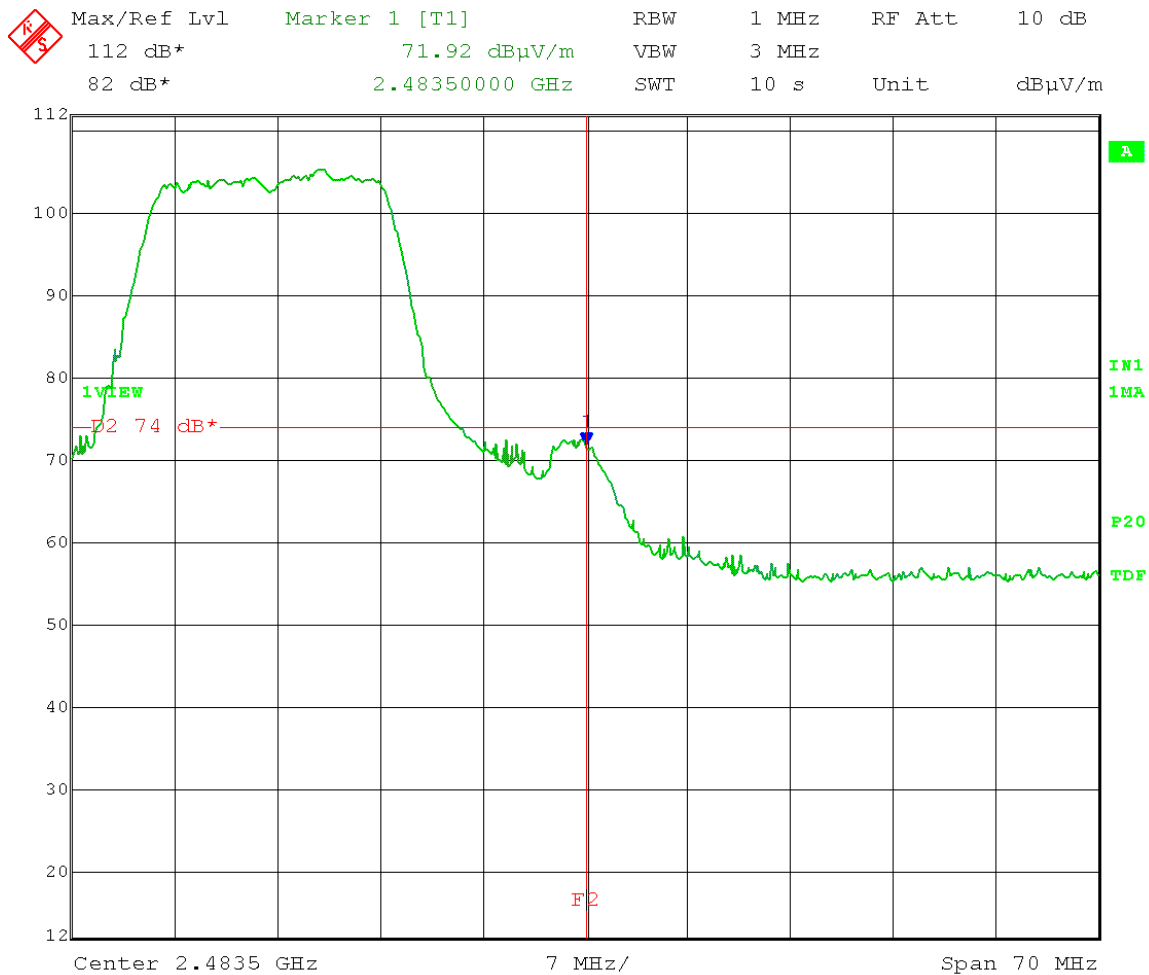
Date: 23.MAR.2017 09:27:42

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: High, 2462 MHz, channel 11  
Modulation: 802.11-g, 54 Mbps  
Power setting: 13

VERTICAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



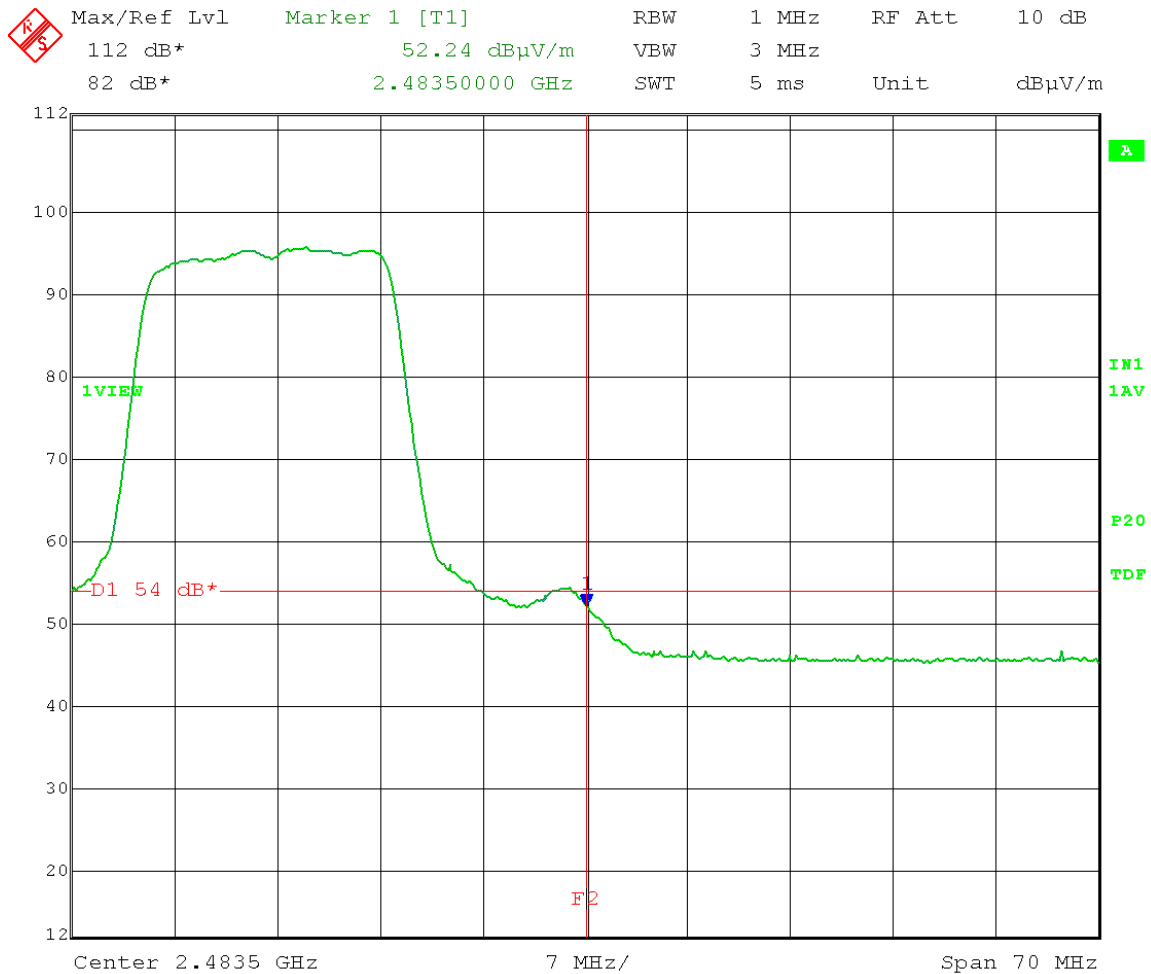
Date: 23.MAR.2017 09:29:08

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: High, 2462 MHz, channel 11  
Modulation: 802.11-g, 54 Mbps  
Power setting: 12

HORIZONTAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



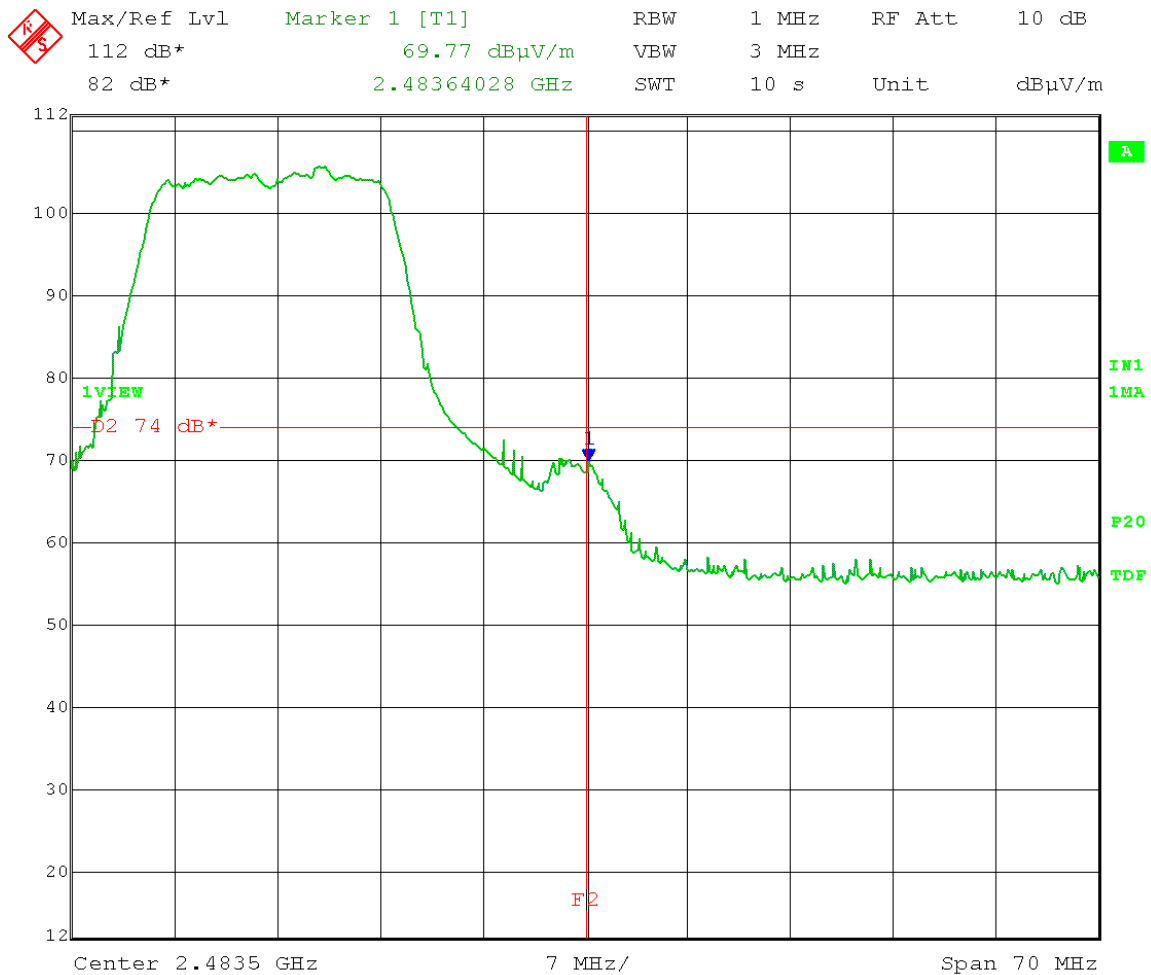
Date: 23.MAR.2017 08:32:54

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: High, 2462 MHz, channel 11  
Modulation: 802.11-g, 54 Mbps  
Power setting: 12

HORIZONTAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



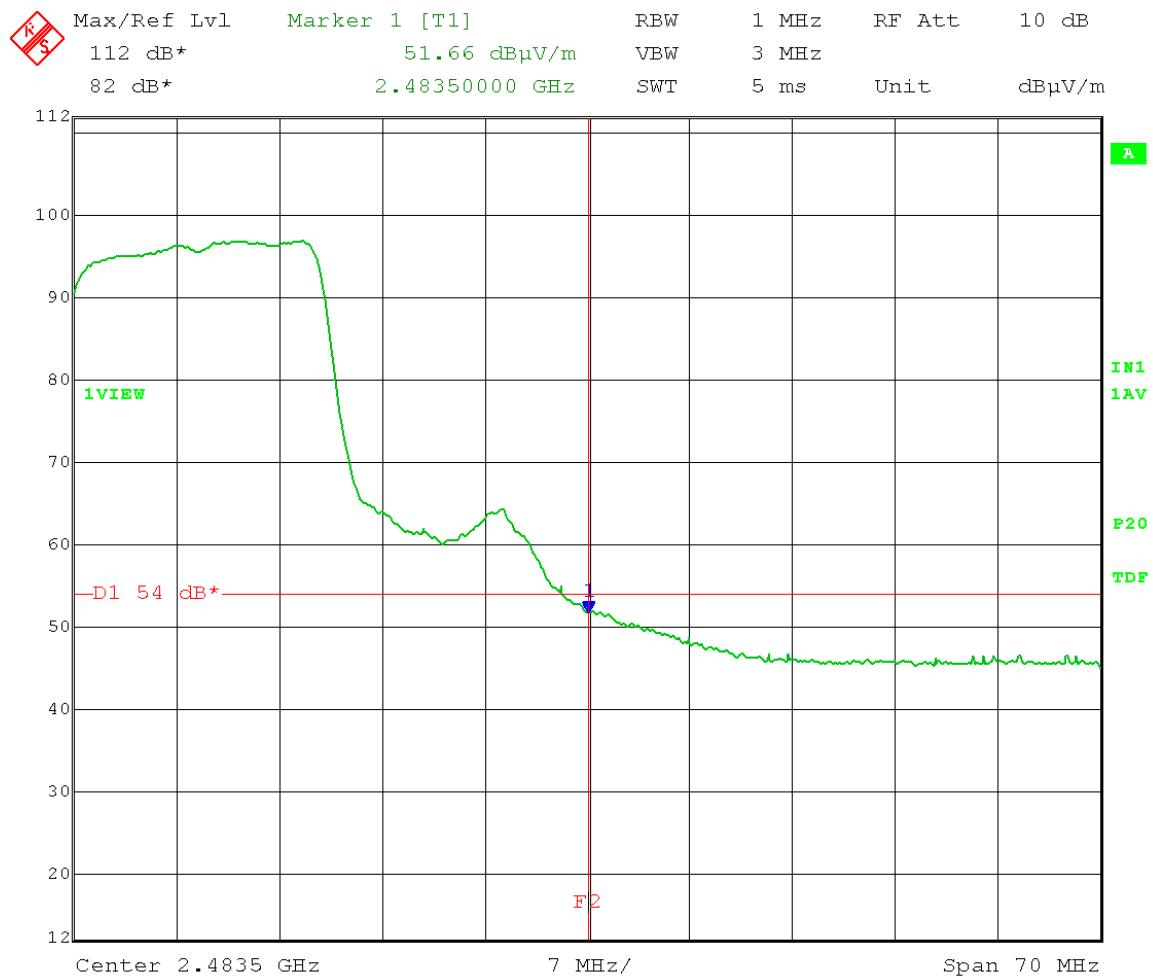
Date: 23.MAR.2017 08:34:39

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2457 MHz, channel 10  
Modulation: 802.11-g, 54 Mbps  
Power setting: 15

VERTICAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



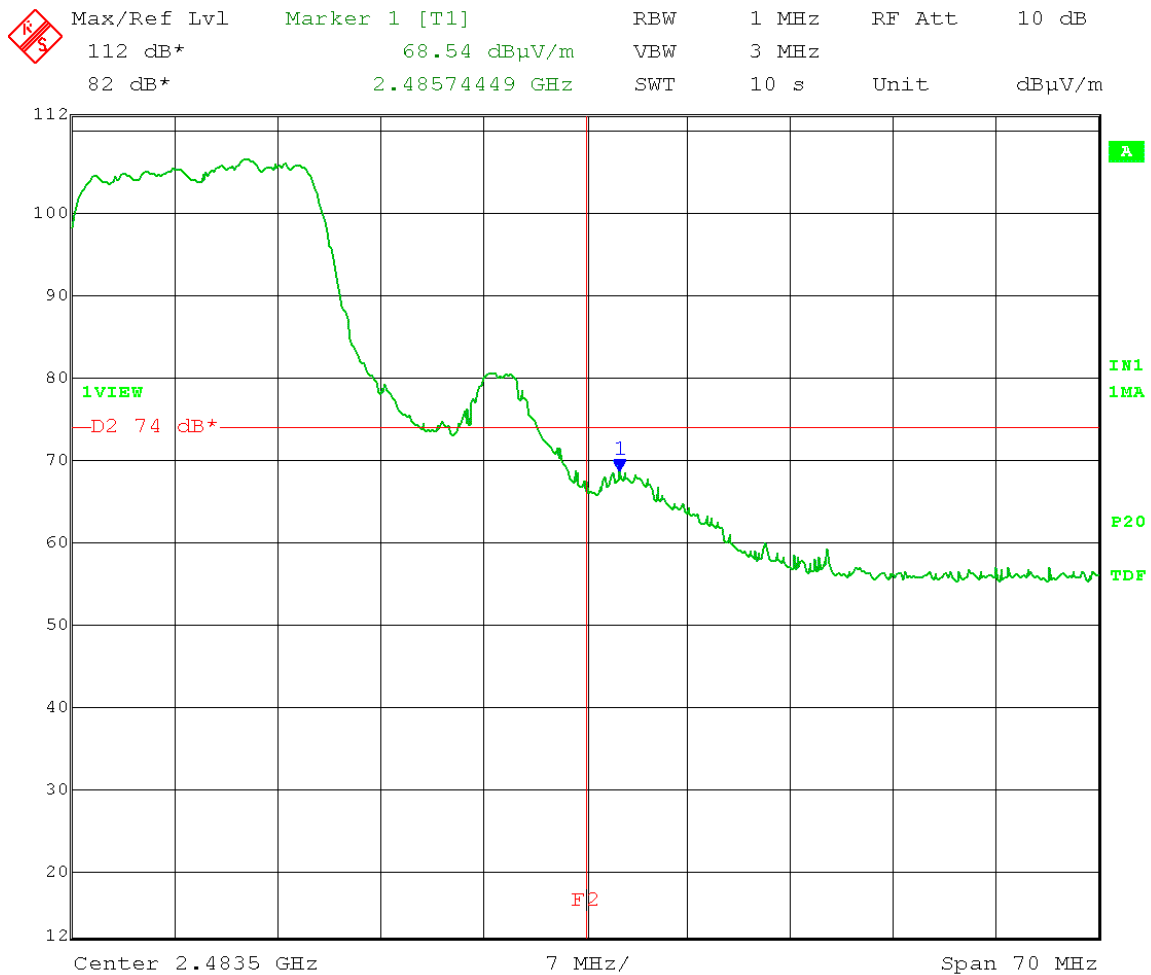
Date: 23.MAR.2017 09:32:08

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2457 MHz, channel 10  
Modulation: 802.11-g, 54 Mbps  
Power setting: 15

VERTICAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



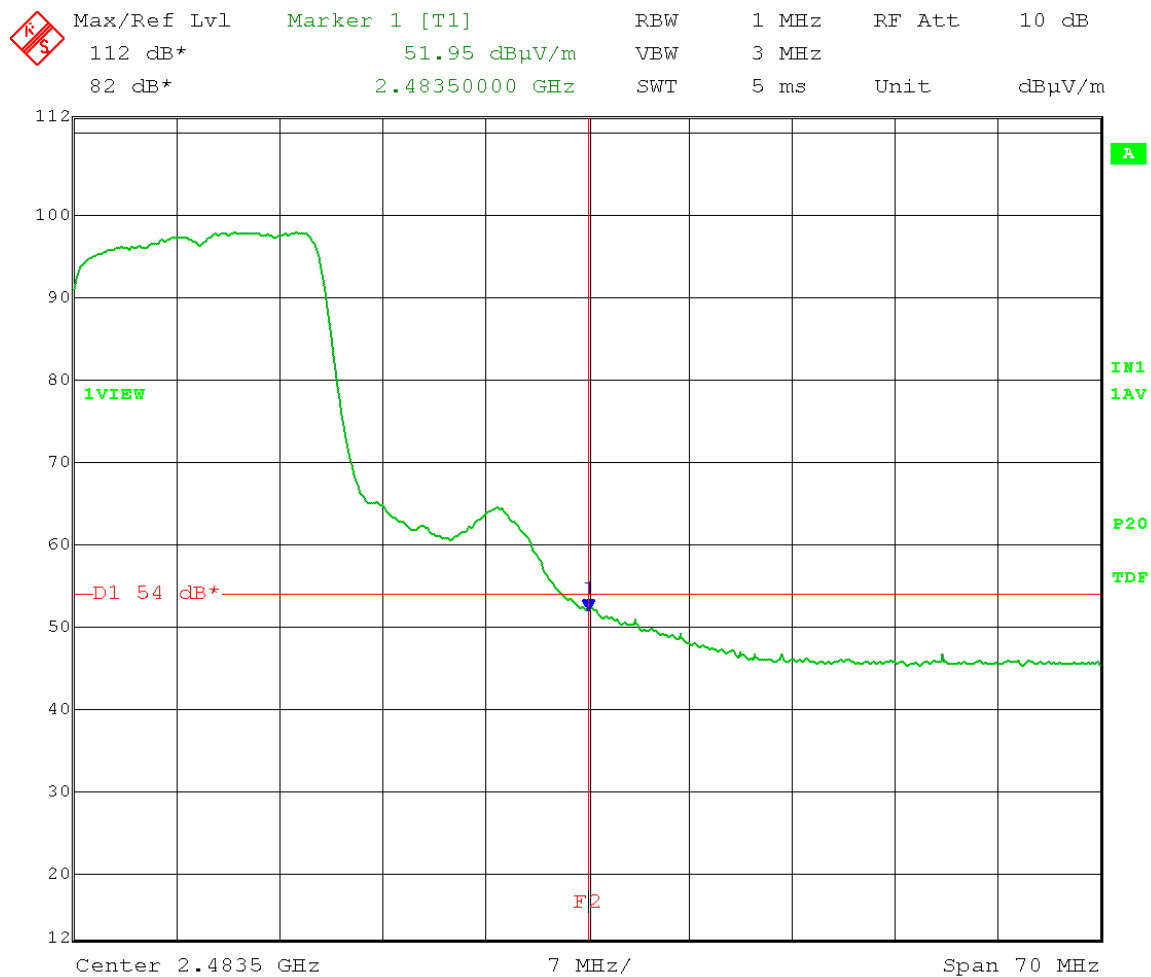
Date: 23.MAR.2017 09:33:29

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2457 MHz, channel 10  
Modulation: 802.11-g, 54 Mbps  
Power setting: 15

HORIZONTAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



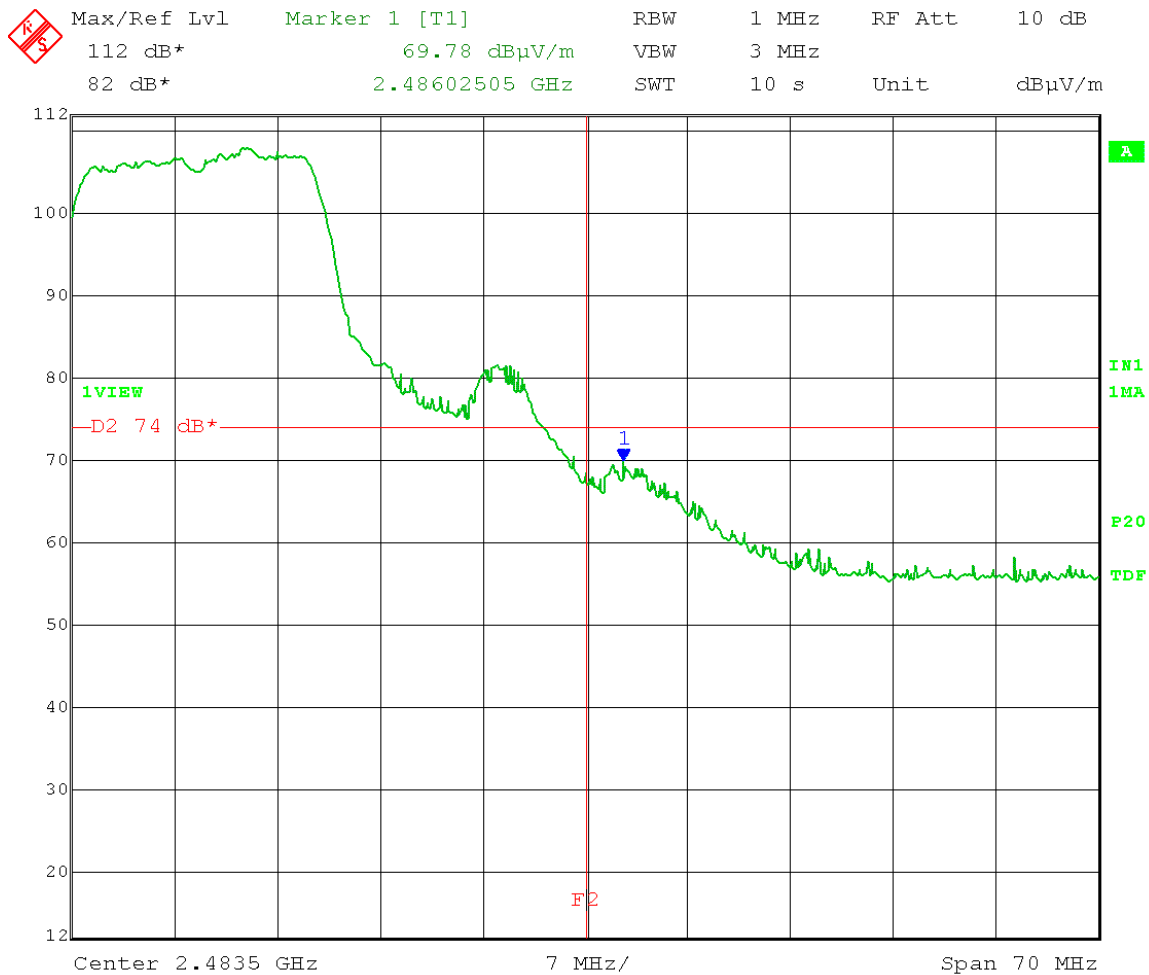
Date: 23.MAR.2017 08:38:12

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2457 MHz, channel 10  
Modulation: 802.11-g, 54 Mbps  
Power setting: 15

#### HORIZONTAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



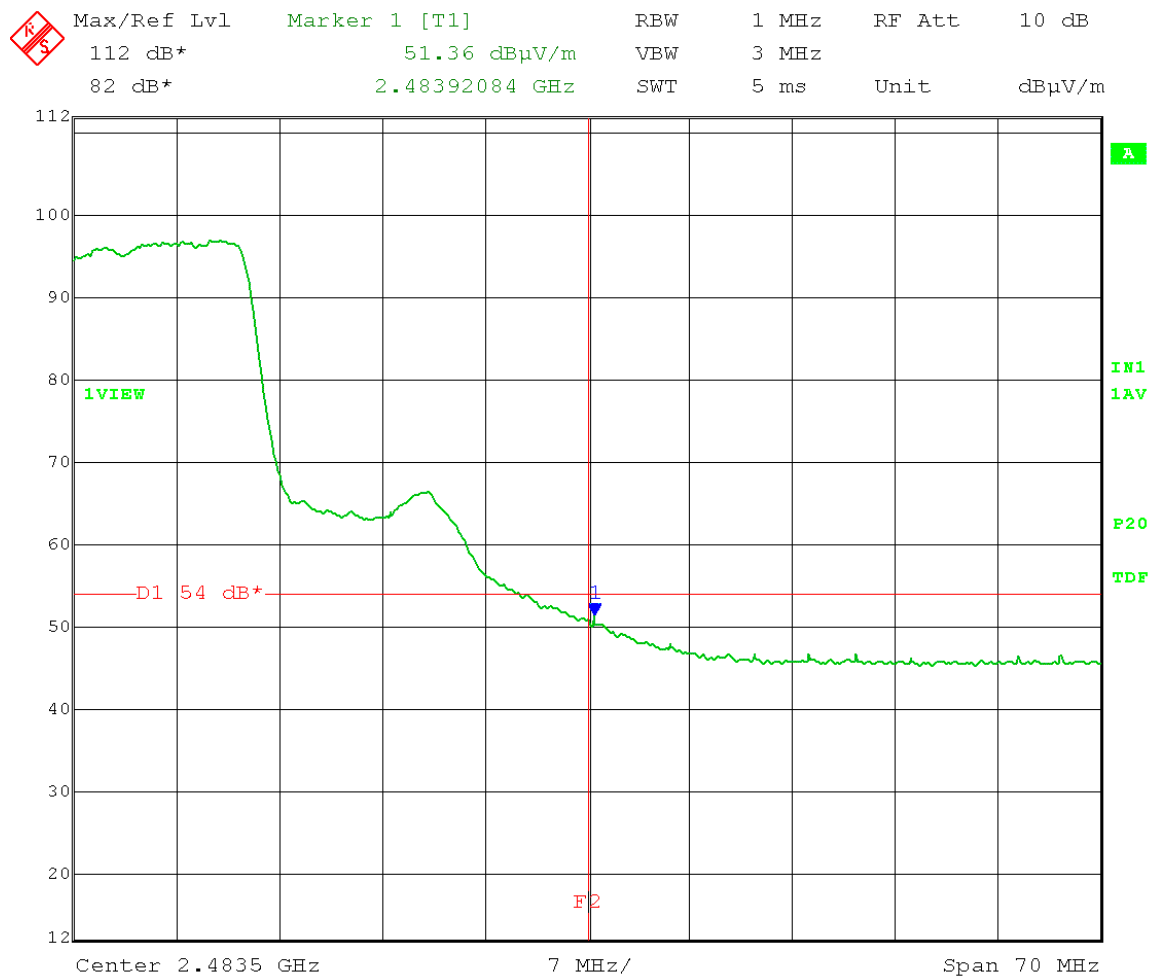
Date: 23.MAR.2017 08:39:33

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2452 MHz, channel 9  
Modulation: 802.11-g, 54 Mbps  
Power setting: 15

VERTICAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



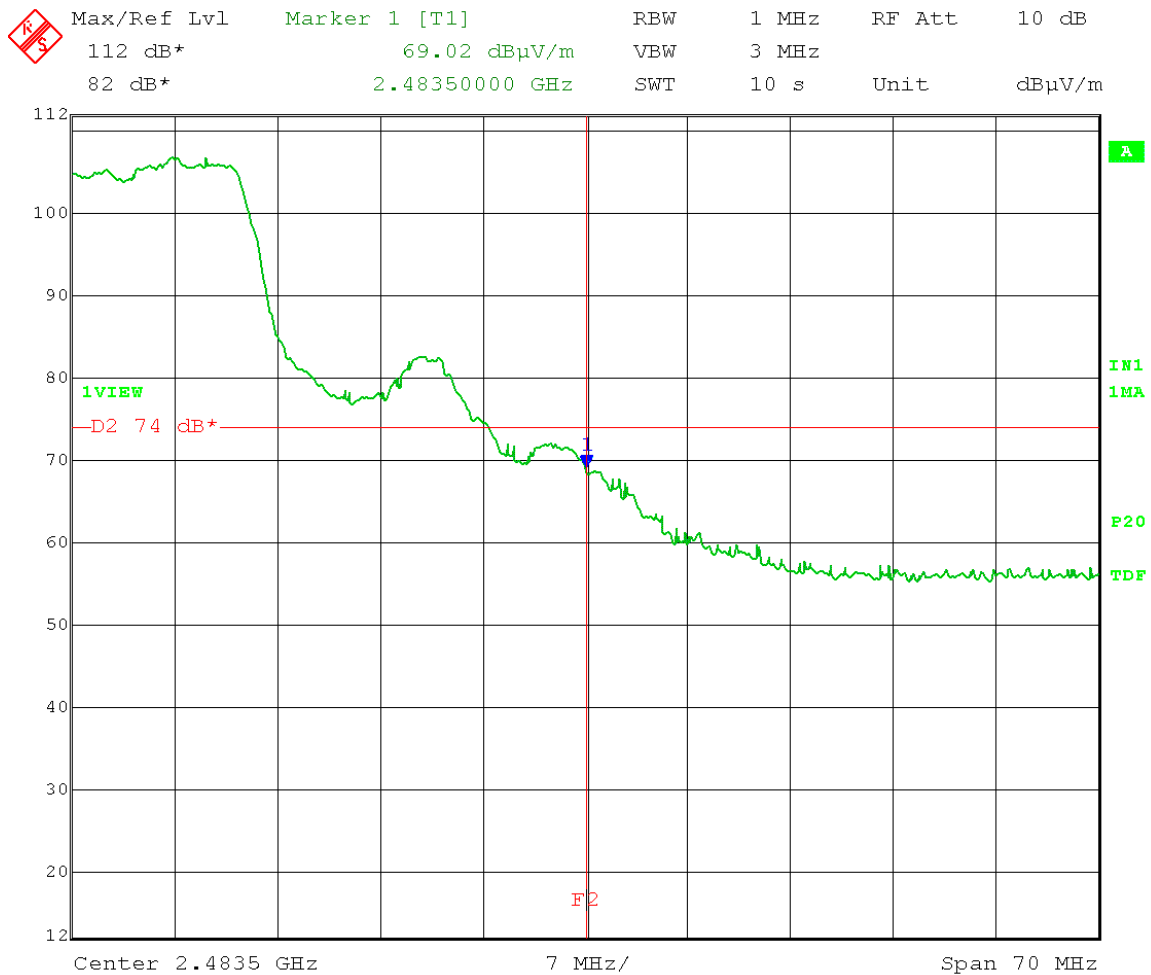
Date: 23.MAR.2017 09:38:53

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2452 MHz, channel 9  
Modulation: 802.11-g, 54 Mbps  
Power setting: 15

VERTICAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



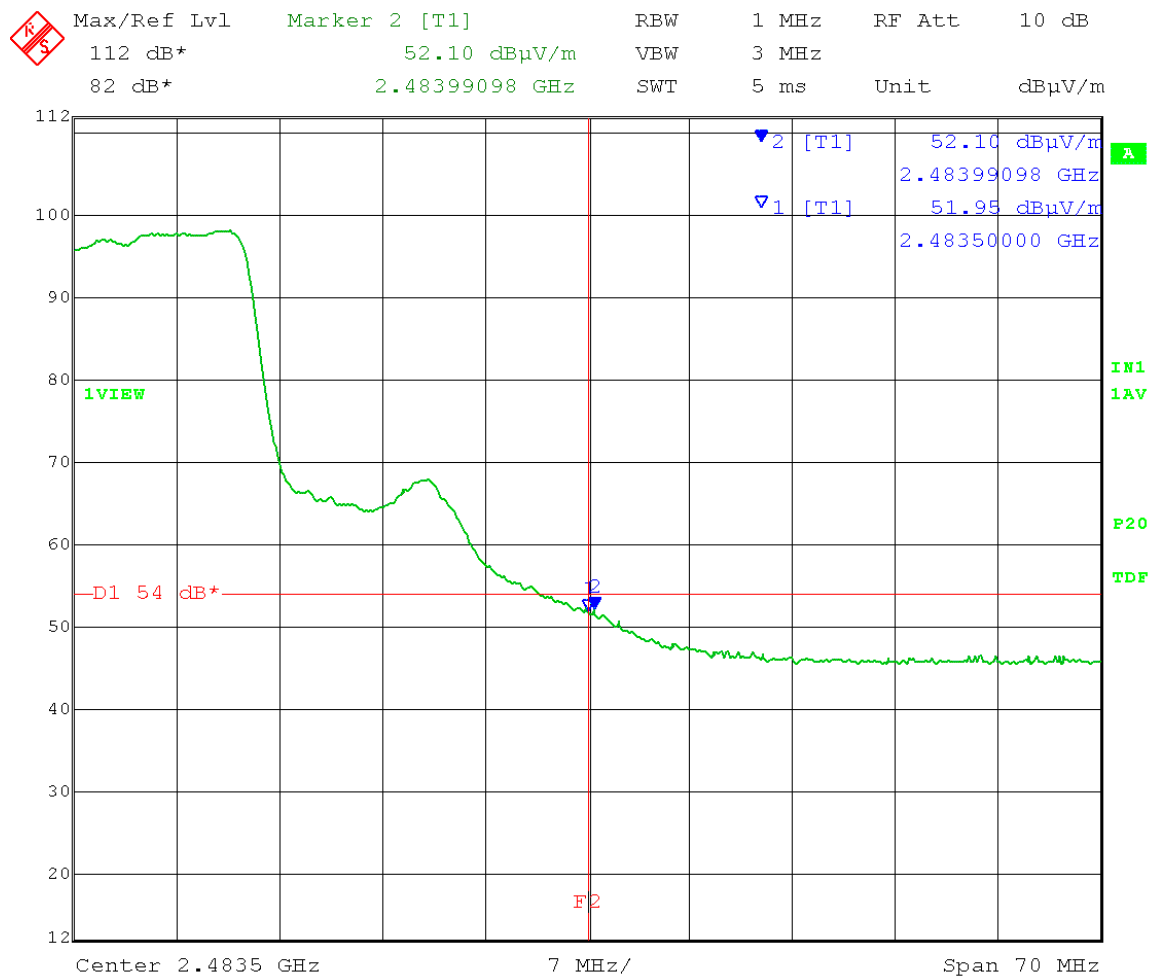
Date: 23.MAR.2017 09:40:17

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2452 MHz, channel 9  
Modulation: 802.11-g, 54 Mbps  
Power setting: 15

HORIZONTAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



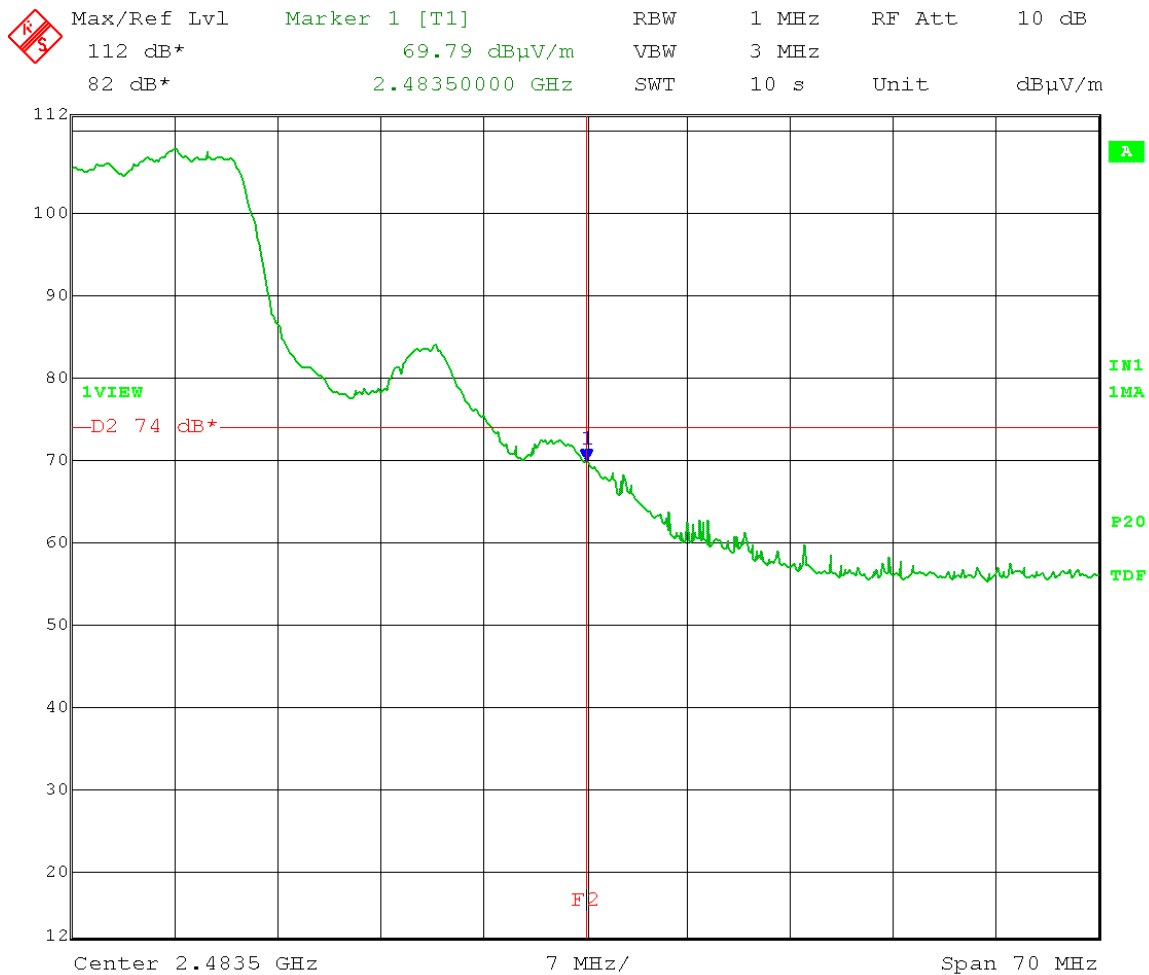
Date: 23.MAR.2017 08:43:48

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2452 MHz, channel 9  
Modulation: 802.11-g, 54 Mbps  
Power setting: 15

#### HORIZONTAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



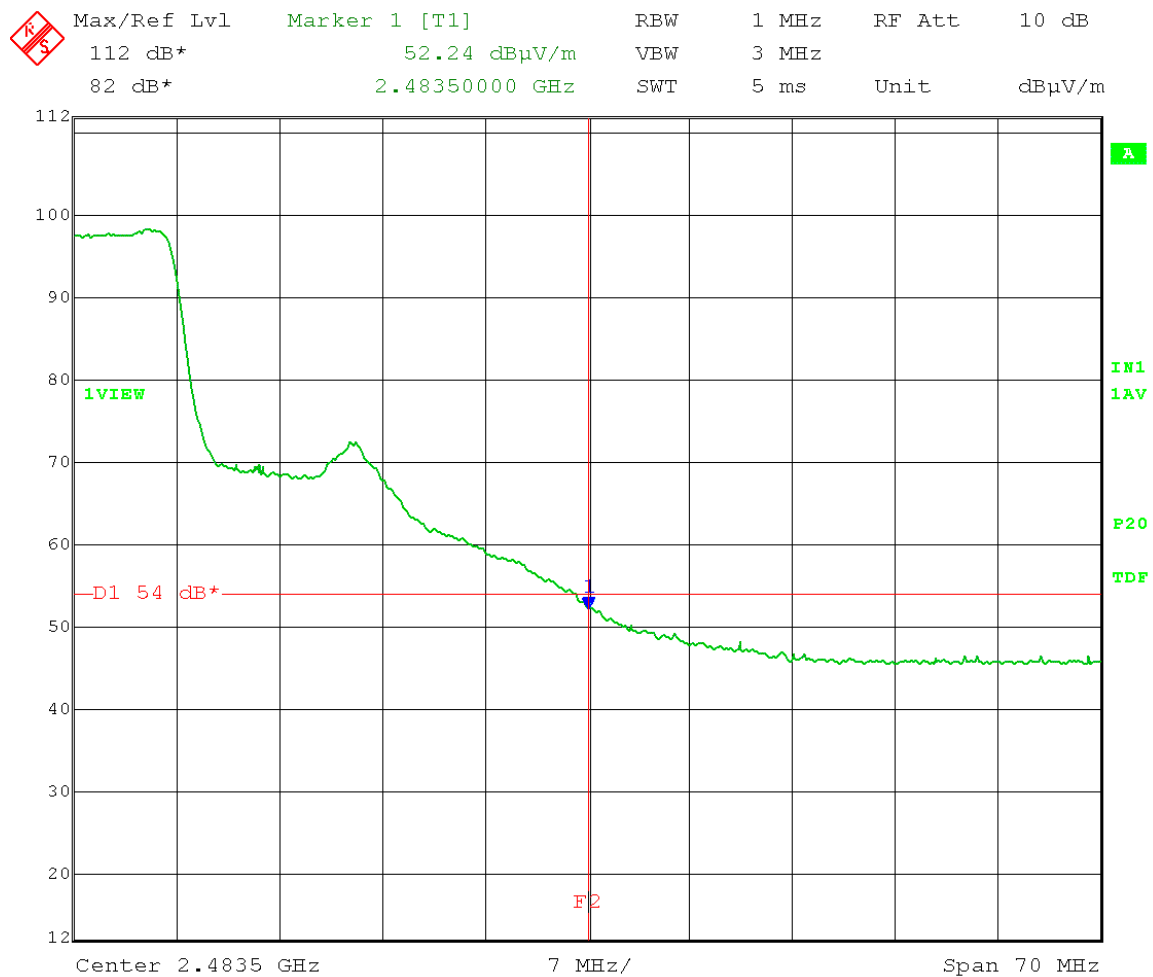
Date: 23.MAR.2017 08:45:05

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2447 MHz, channel 8  
Modulation: 802.11-g, 54 Mbps  
Power setting: 17

VERTICAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



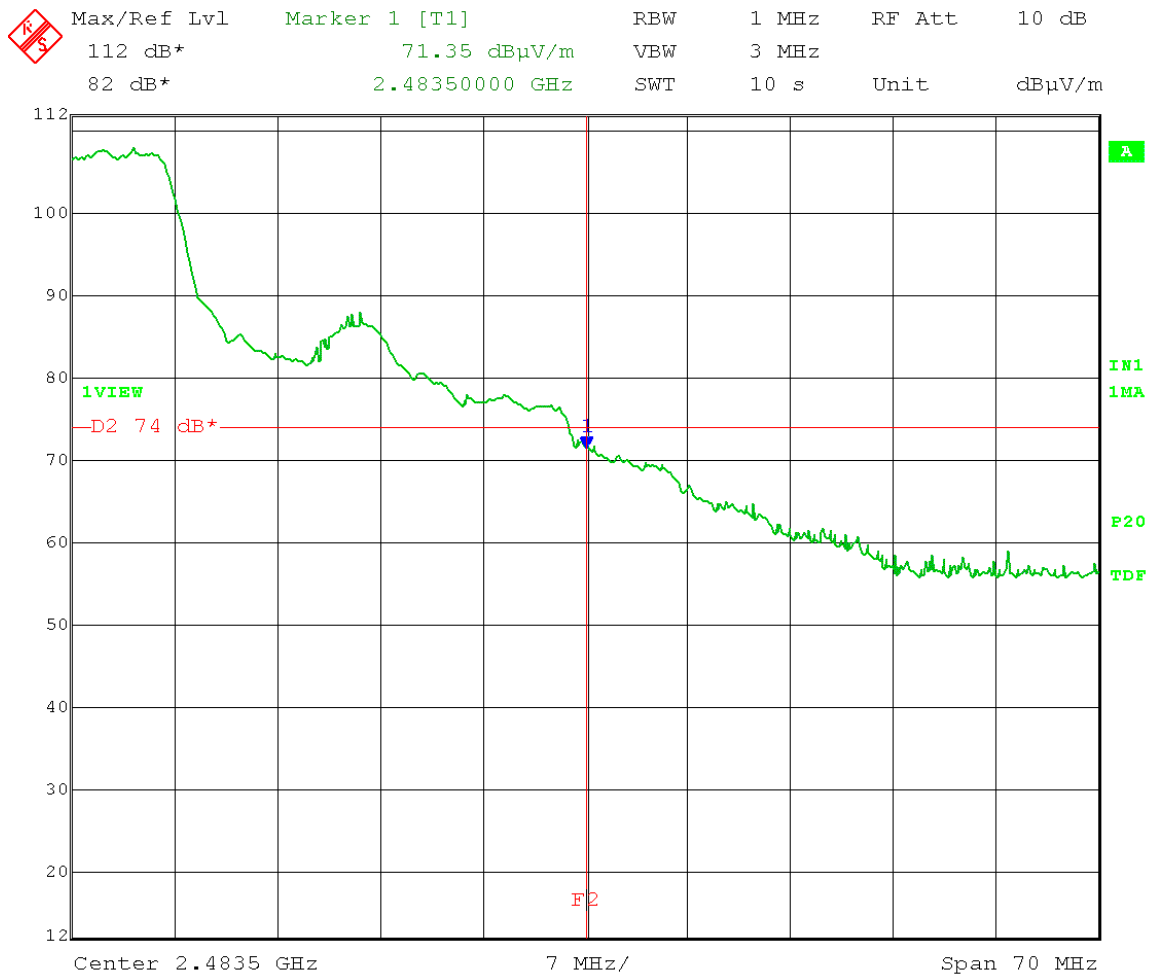
Date: 23.MAR.2017 09:42:38

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2447 MHz, channel 8  
Modulation: 802.11-g, 54 Mbps  
Power setting: 17

VERTICAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



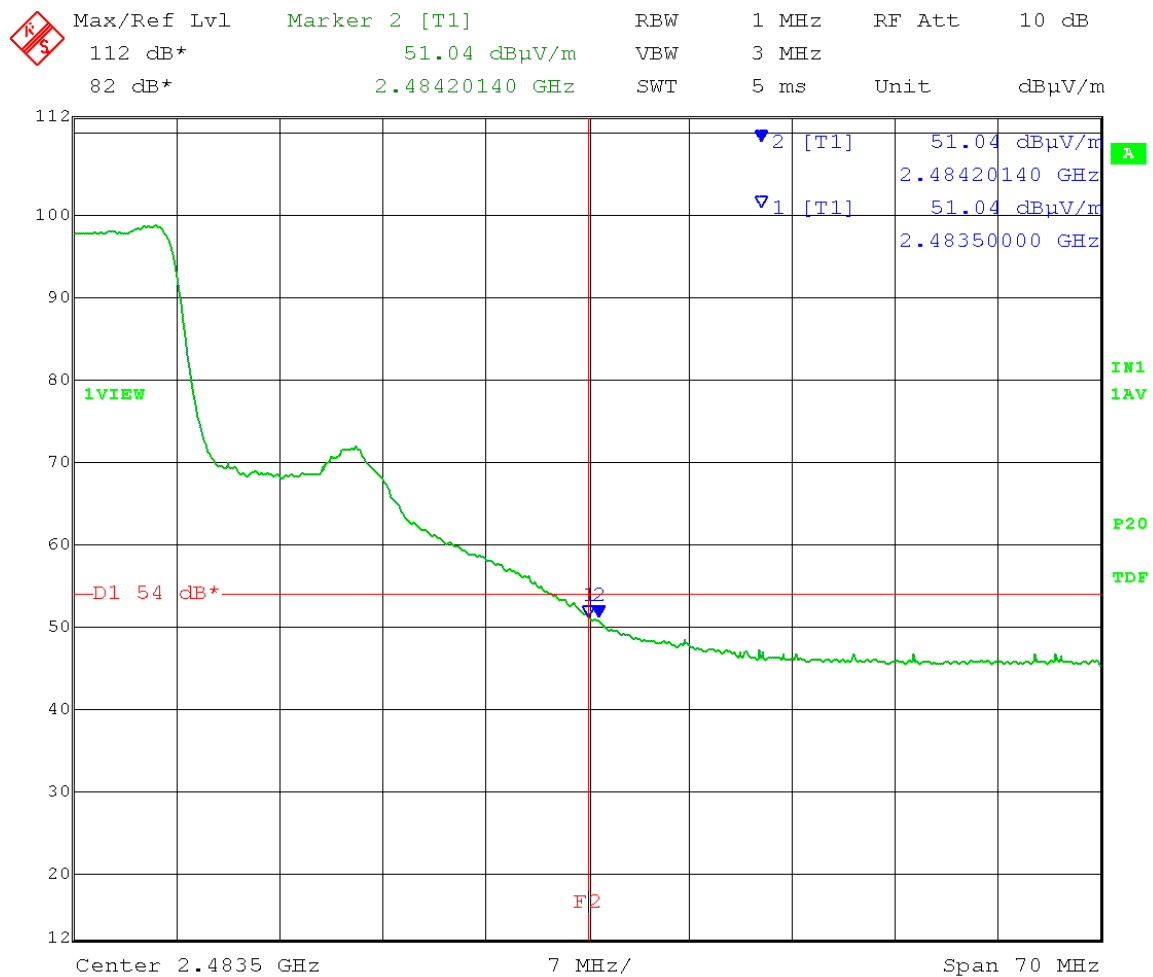
Date: 23.MAR.2017 09:44:05

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2447 MHz, channel 8  
Modulation: 802.11-g, 54 Mbps  
Power setting: 16

HORIZONTAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



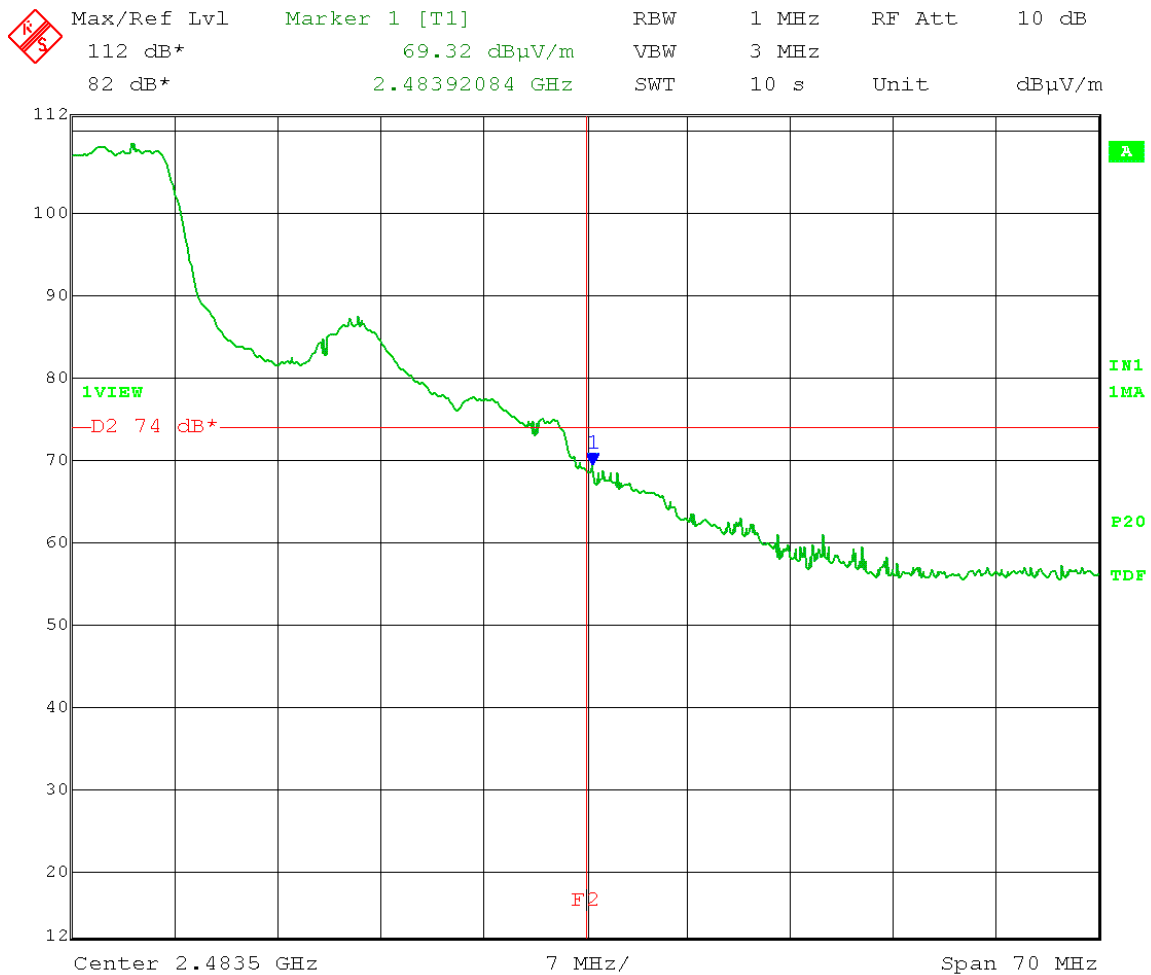
Date: 23.MAR.2017 08:48:23

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2447 MHz, channel 8  
Modulation: 802.11-g, 54 Mbps  
Power setting: 16

#### HORIZONTAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



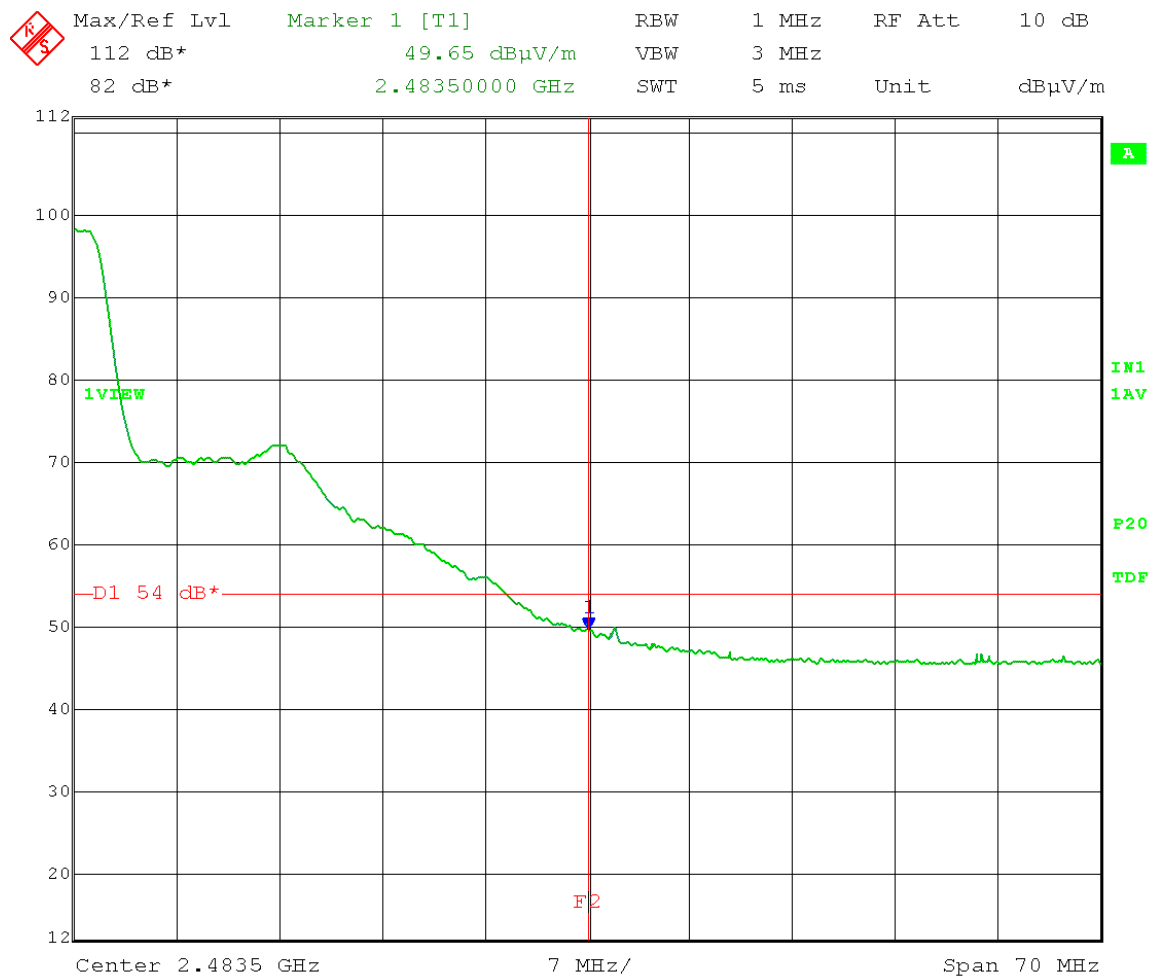
Date: 23.MAR.2017 08:49:56

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

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

HORIZONTAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



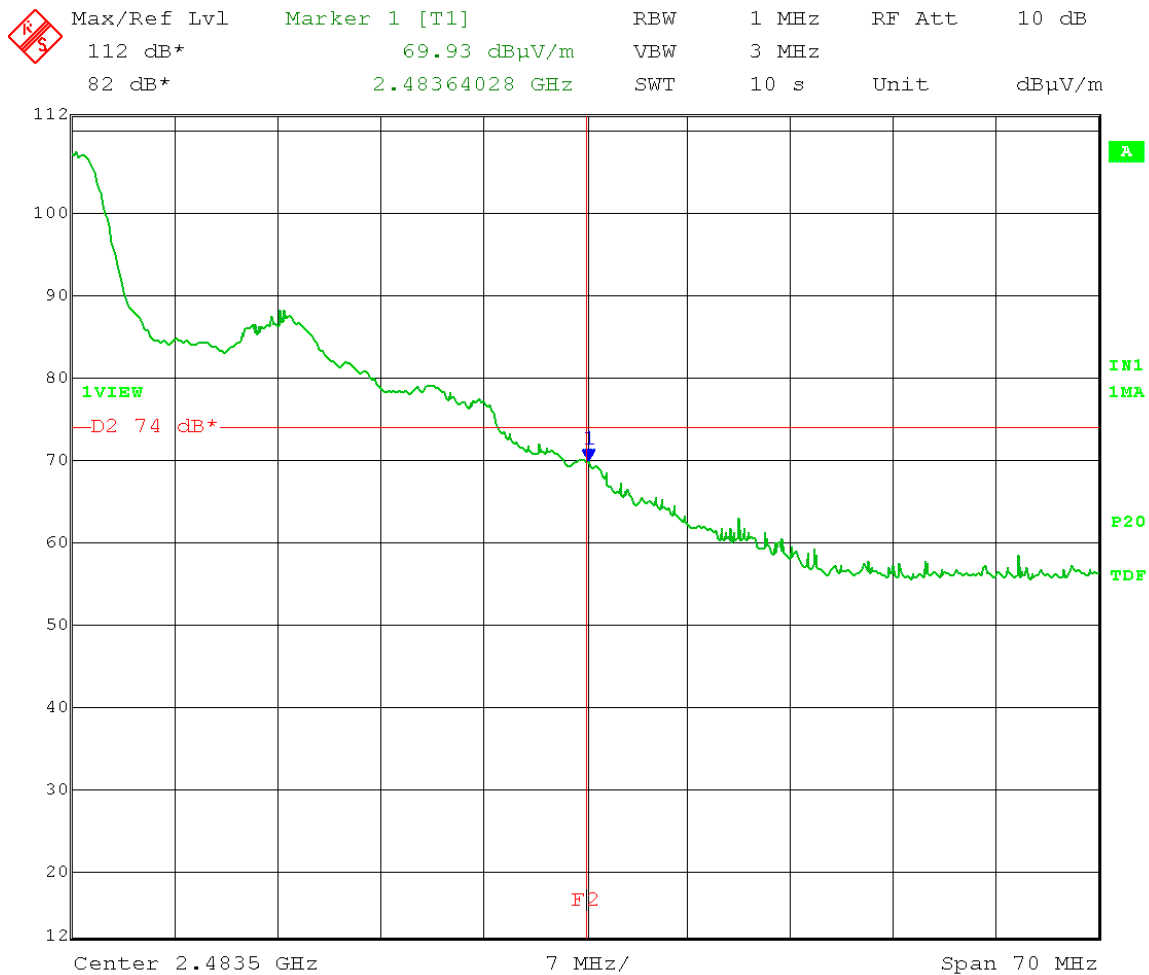
Date: 23.MAR.2017 08:54:46

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

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

#### HORIZONTAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



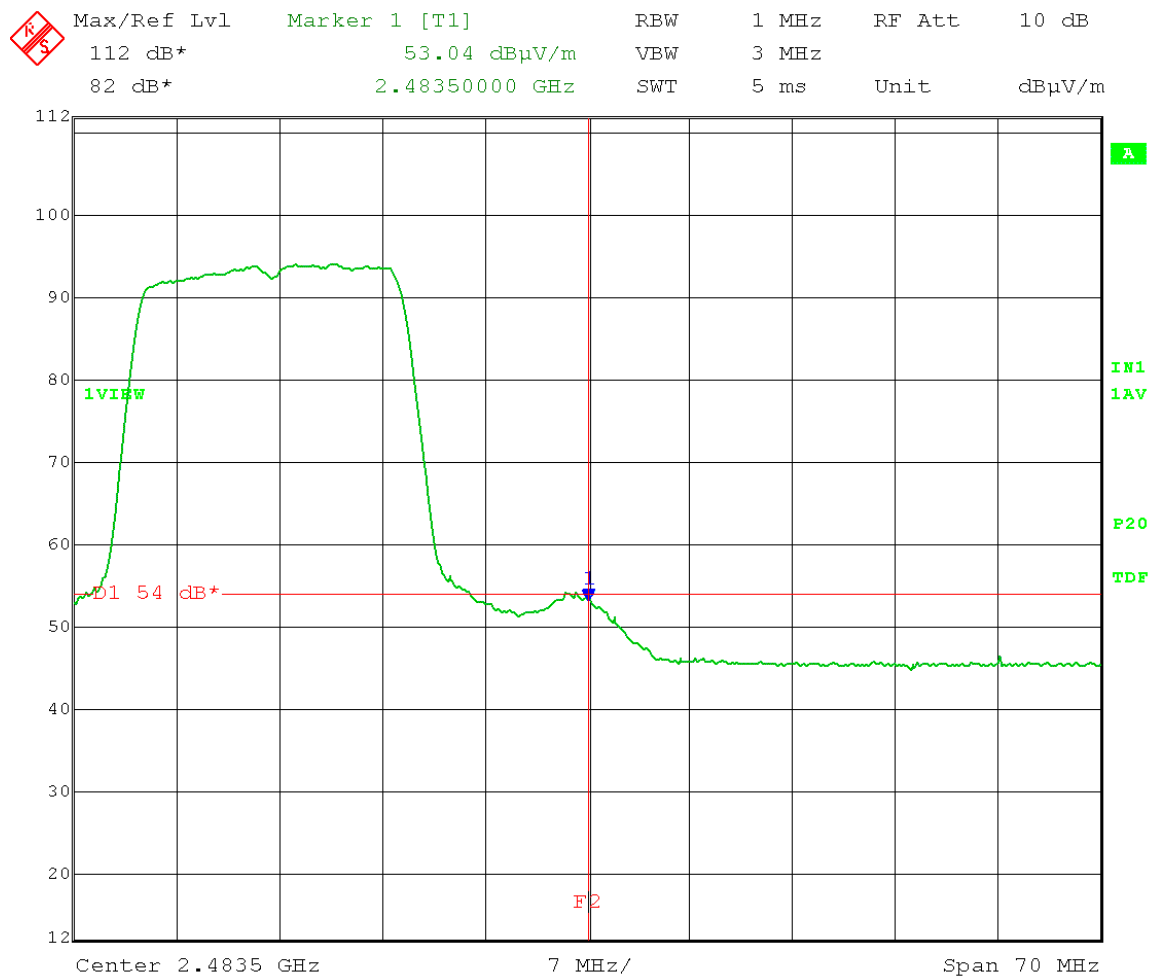
Date: 23.MAR.2017 08:57:30

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

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

VERTICAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



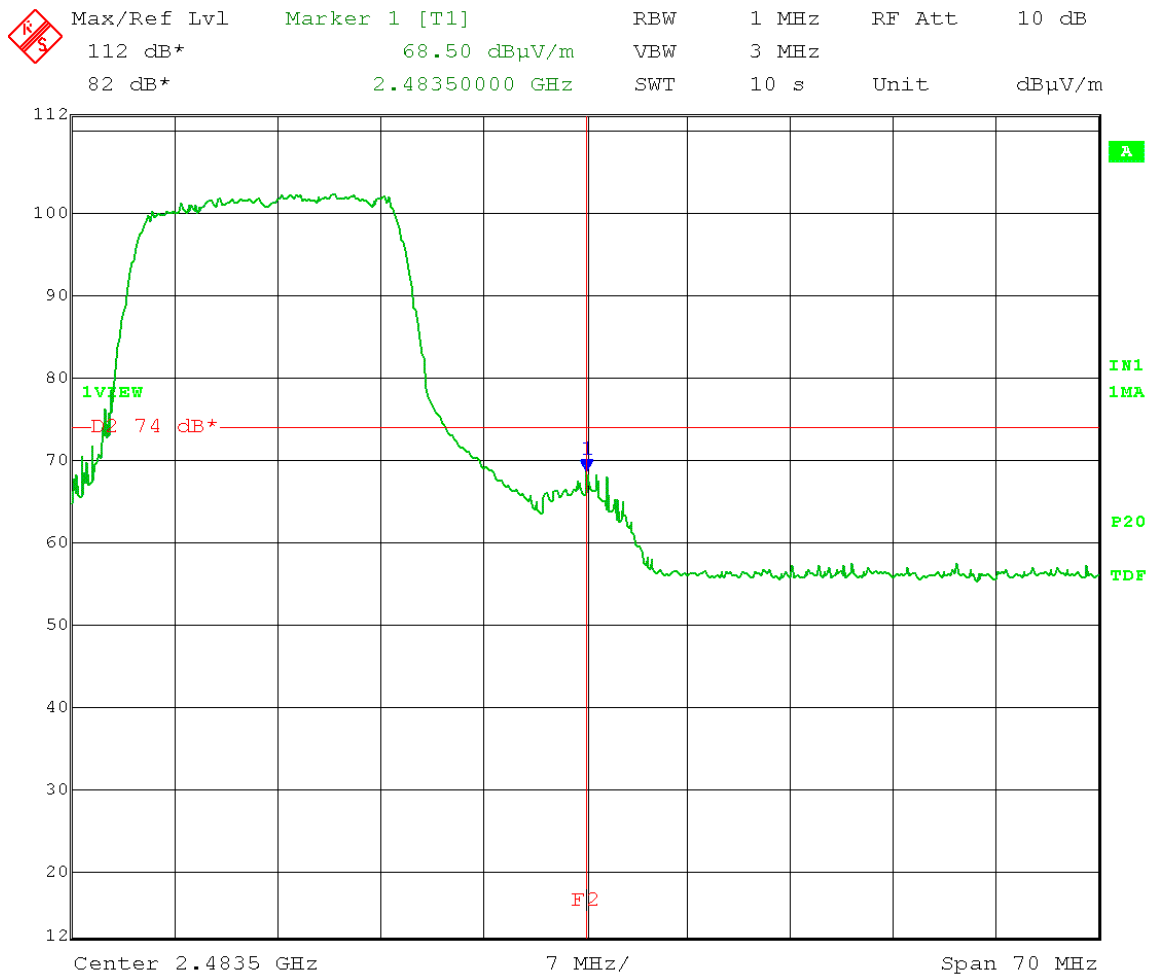
Date: 23.MAR.2017 09:47:29

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

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

VERTICAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



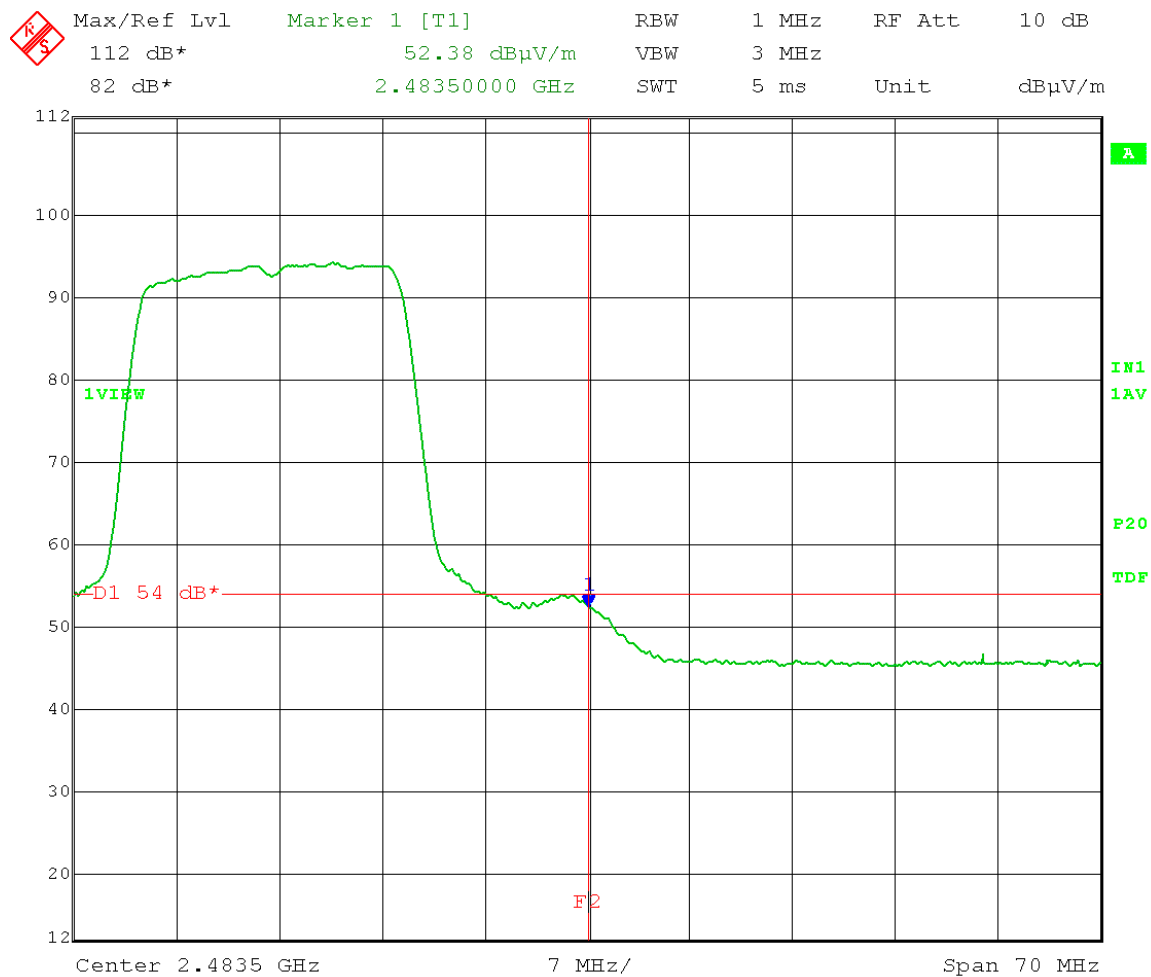
Date: 23.MAR.2017 09:49:11

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

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

HORIZONTAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



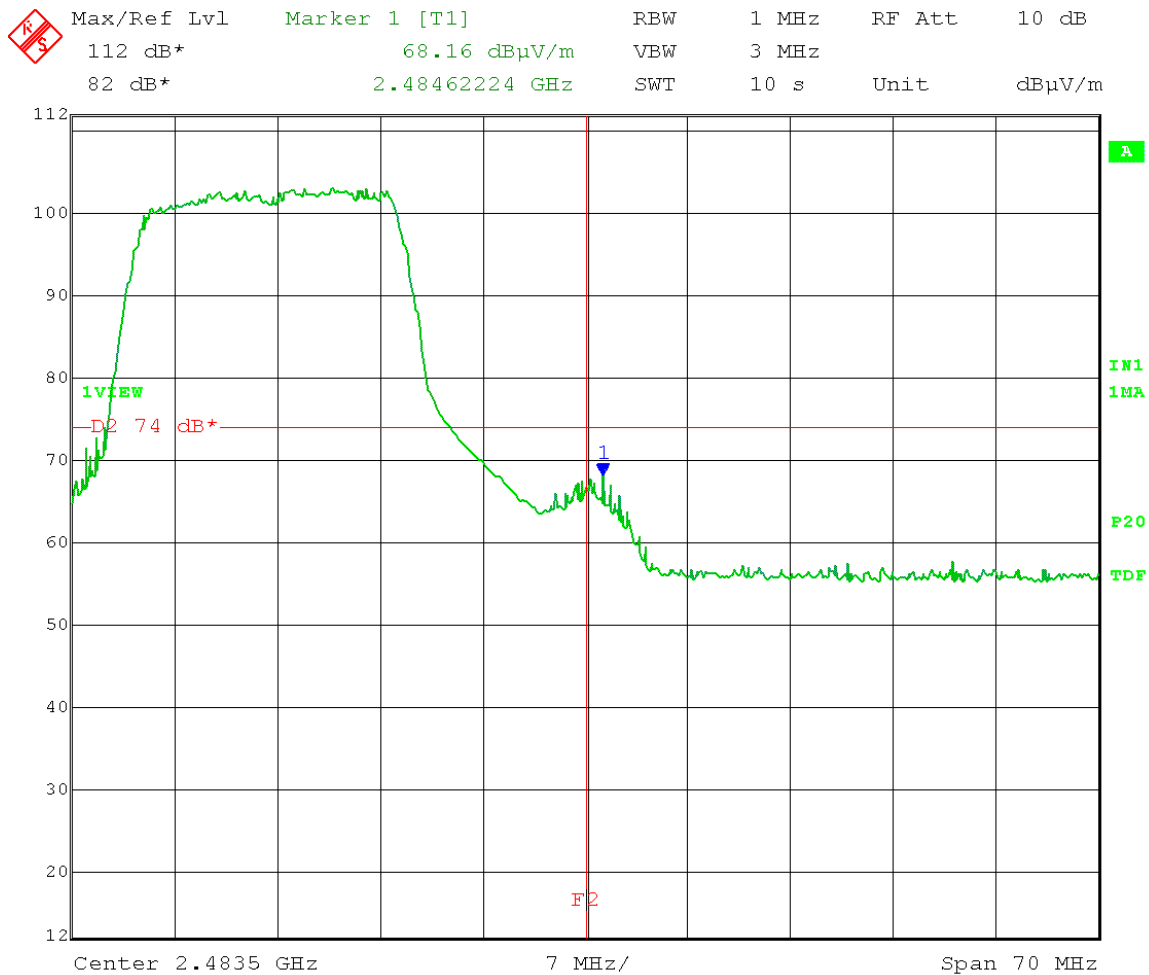
Date: 23.MAR.2017 09:00:40

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

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

#### HORIZONTAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



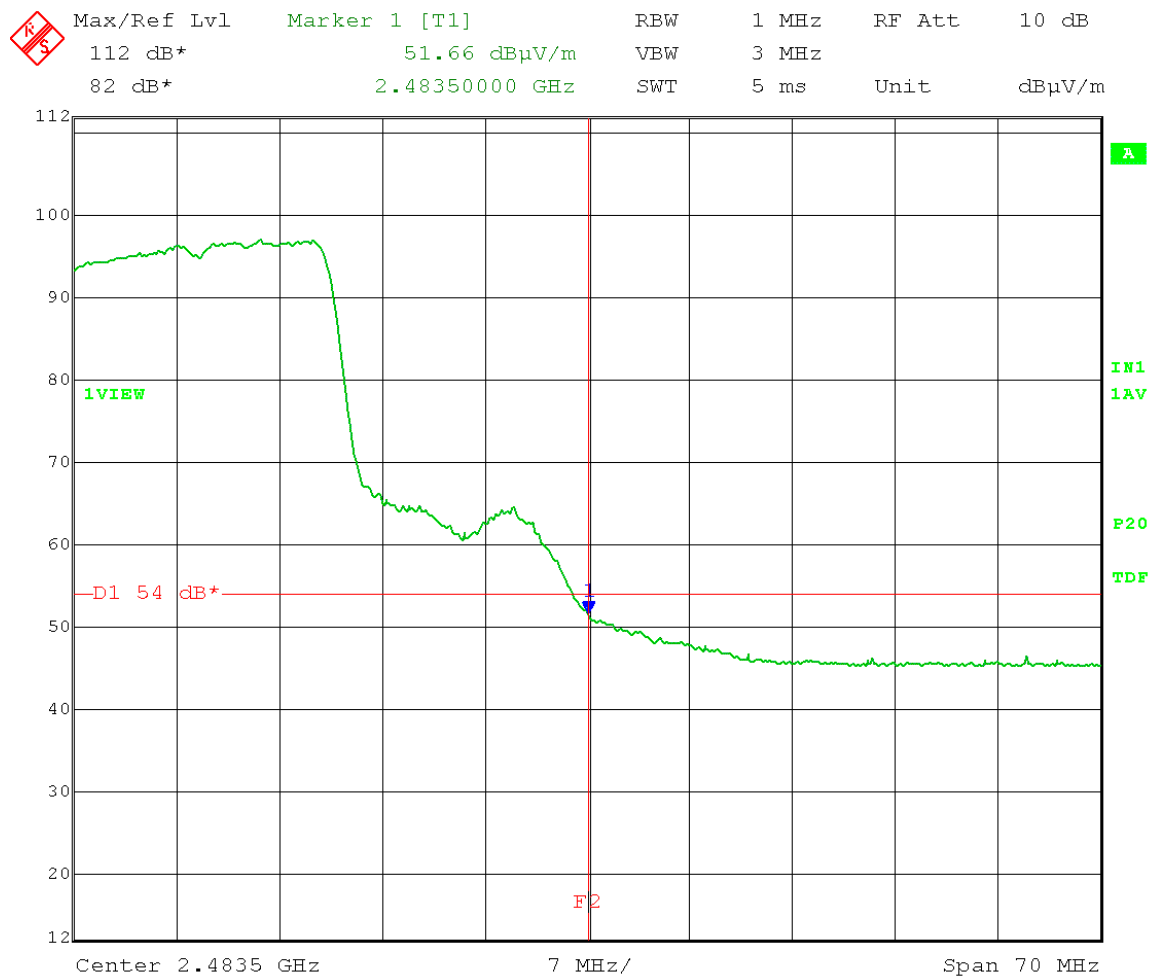
Date: 23.MAR.2017 09:02:20

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2457 MHz, channel 10  
Modulation: 802.11-n, MCS7  
Power setting: 14

VERTICAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



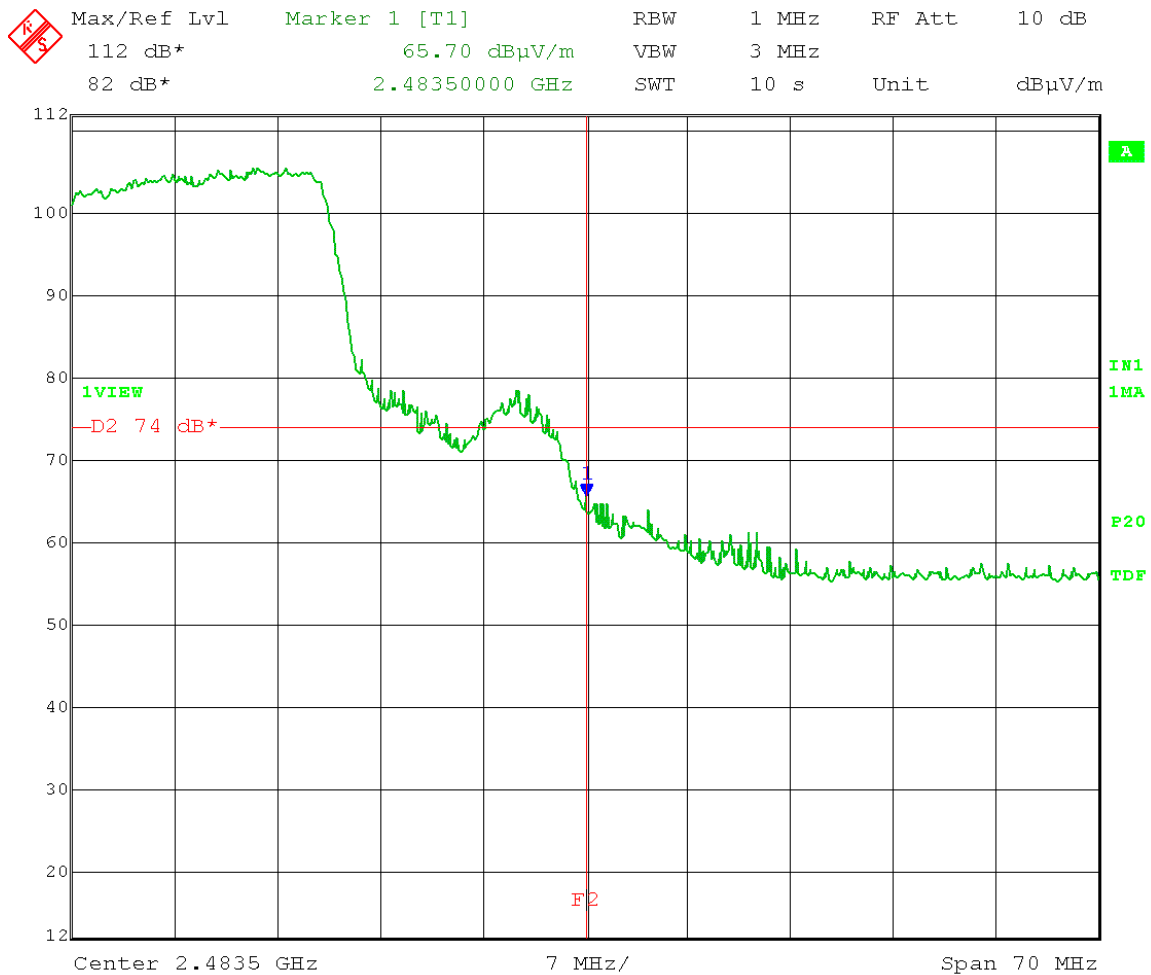
Date: 23.MAR.2017 09:51:34

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2457 MHz, channel 10  
Modulation: 802.11-n, MCS7  
Power setting: 14

VERTICAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



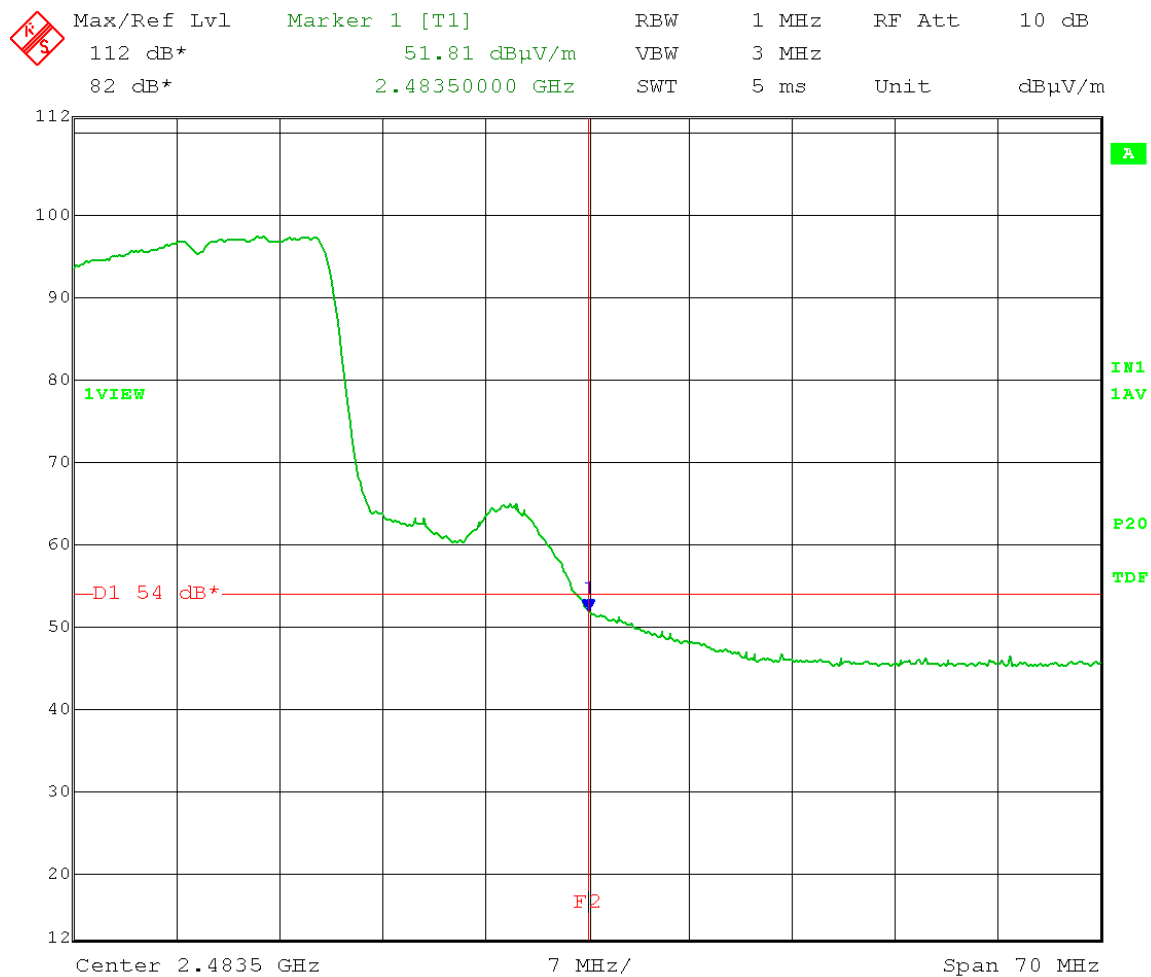
Date: 23.MAR.2017 09:53:22

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2457 MHz, channel 10  
Modulation: 802.11-n, MCS7  
Power setting: 14

HORIZONTAL:

AVERAGE: Limit = 54 dB $\mu$ V/m @ 3 meters



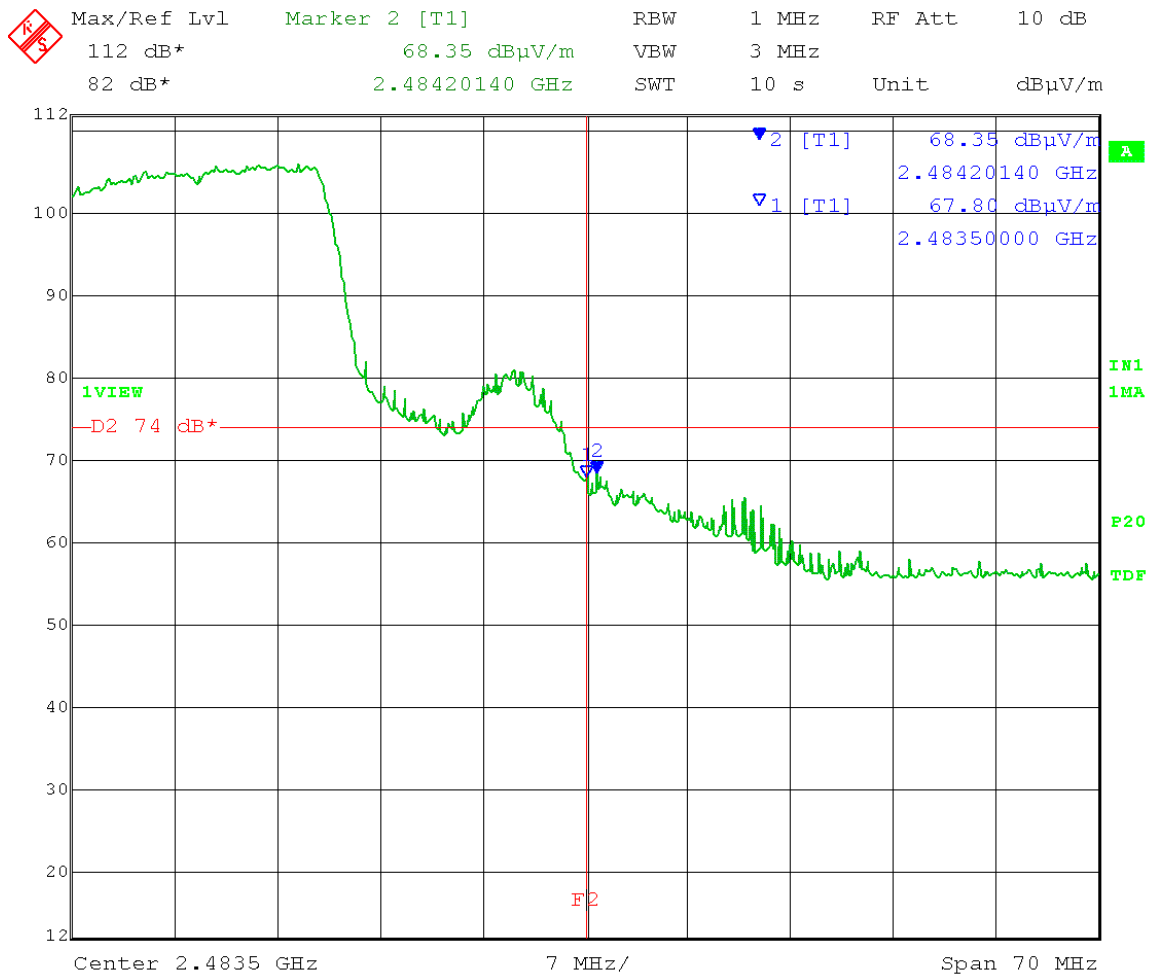
Date: 23.MAR.2017 09:04:20

Test Date: 03-23-2017  
Company: Whirlpool Corporation  
EUT: Tourmaline  
Test: Upper Restricted Band-Edge Radiated  
Rule part: FCC Part 15.247(d) and FCC Part 15.205  
Operator: Craig B

Antenna: F antenna  
Channel: 2457 MHz, channel 10  
Modulation: 802.11-n, MCS7  
Power setting: 14

#### HORIZONTAL:

PEAK: Limit = 74 dB $\mu$ V/m @ 3 meters



Date: 23.MAR.2017 09:06:20



Company:  
Model Tested:  
Report Number:  
DLS Project:

Whirlpool Corporation  
WICHTO01  
22691  
8732

166 South Carter, Genoa City, WI 53128

## Appendix B

### B9.0 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 802.11b mode, a modulating signal representative of the worst-case signal encountered in a real system operation.



Report issuing date : 03-30-2017

Standard : FCC Part 15.207  
Test Type : Voltage Mains Test  
Test Site : DLS O.F. Screen Room  
Temperature : 71 °F  
Humidity : 32%  
Test Specs : Line 1  
Operator : Craig B  
DLS Project # : 8732  
Result : Pass

#### EUT

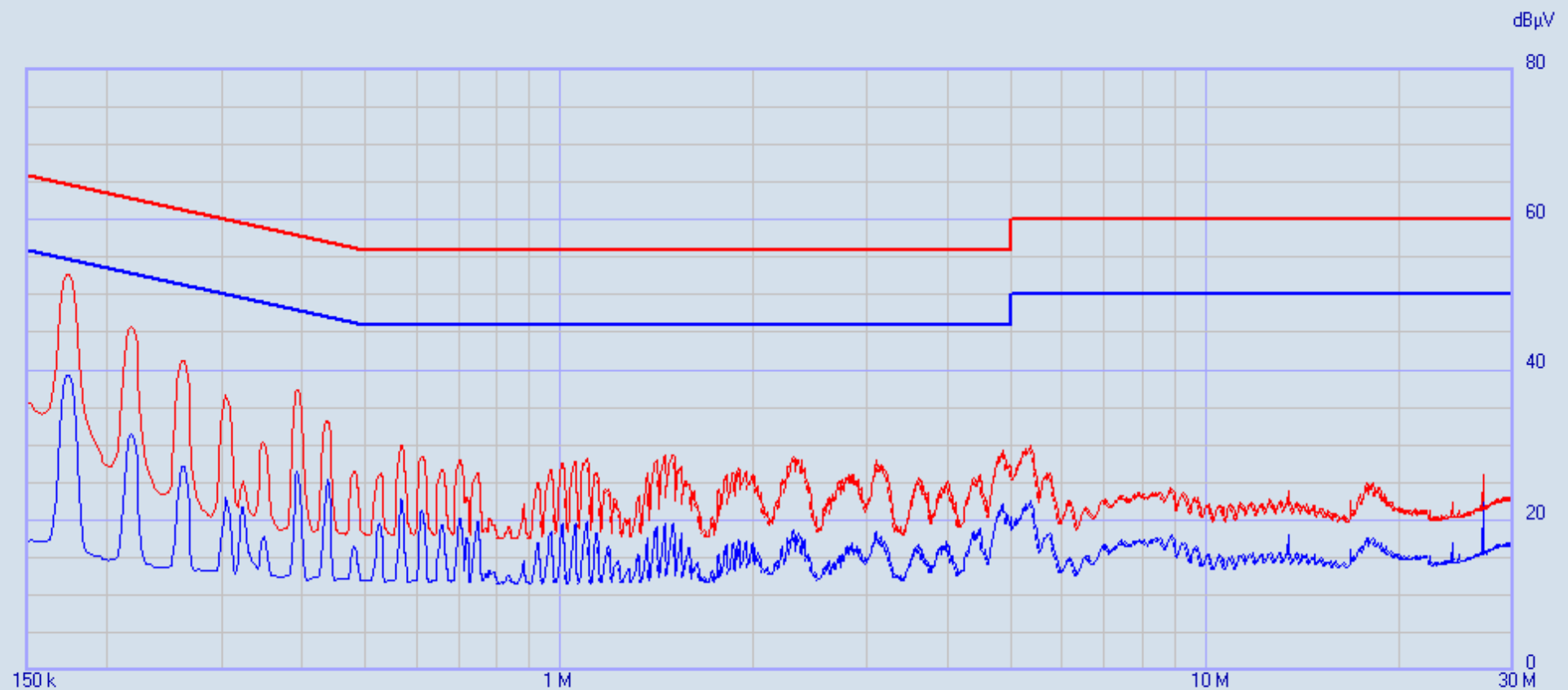
-----  
Manufacturer : Whirlpool Corporation  
Model : Tourmaline  
Product : WiFi module  
Notes : 120 V 60 Hz; Tx on On-board antenna 1

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

#### Receiver Details

-----  
Model : PMM 9010F  
Brand : Narda  
S/N : 020WW40102  
Last Calibration : 06/23/2016

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.



8732 Tourmaline 120V On-board 1 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<br>Class B V QP<br>Class B V AV | 1500 ms   | 9 kHz | 10      | OFF     | ON      | ...          | ...       |

Ancillary = General  
Nr. of Worst = Infinite (2)

Limits:  
FCC 15.207 QP  
FCC 15.207 AV

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

QPeak ———  
C-Avg ———

8732 Tourmaline 120V On-board 1 L1 30/03/2017 11:36:03  
 Rel. SW 2.22 (August 2015)  
 Rel. FW 1.54 20/04/16  
 Margin: 22 dB

|    | Frequency | QPeak  | Limit       | Delta  | C-Avg  | Limit       | Delta  | Factor      | Factor  | Factor   | Factor      |
|----|-----------|--------|-------------|--------|--------|-------------|--------|-------------|---------|----------|-------------|
|    | [MHz]     | [dBμV] | FCC 15_20.. | [dB]   | [dBμV] | FCC 15_20.. | [dB]   | LISN DLS#.. | EM-L705 | DLS #592 | Cables 43.. |
|    |           |        | [dBμV]      |        |        | [dBμV]      |        | [dB]        | [dB]    | [dB]     | [dB]        |
| 1  | 0.168405  | 47.99  | 65.04       | -17.05 | 31.89  | 55.04       | ---    | 1.41        | 10.01   | 1.99     | 0.09        |
| 2  | 0.17045   | 51.61  | 64.94       | -13.33 | 37.51  | 54.94       | -17.43 | 1.39        | 10.01   | 1.97     | 0.08        |
| 3  | 0.172495  | 52.65  | 64.84       | -12.19 | 39.18  | 54.84       | -15.66 | 1.37        | 10.01   | 1.96     | 0.07        |
| 4  | 0.17454   | 52.61  | 64.74       | -12.13 | 39.23  | 54.74       | -15.51 | 1.35        | 10.01   | 1.94     | 0.07        |
| 5  | 0.176585  | 51.54  | 64.64       | -13.10 | 37.85  | 54.64       | -16.79 | 1.32        | 10.01   | 1.92     | 0.06        |
| 6  | 0.17863   | 47.87  | 64.55       | -16.68 | 32.66  | 54.55       | -21.89 | 1.30        | 10.01   | 1.91     | 0.05        |
| 7  | 0.213395  | 43.80  | 63.07       | -19.27 | 27.66  | 53.07       | ---    | 1.03        | 10.00   | 1.67     | 0.05        |
| 8  | 0.21544   | 45.32  | 62.99       | -17.67 | 30.63  | 52.99       | ---    | 1.02        | 10.00   | 1.66     | 0.06        |
| 9  | 0.217485  | 45.71  | 62.91       | -17.20 | 31.37  | 52.91       | -21.54 | 1.00        | 10.00   | 1.65     | 0.07        |
| 10 | 0.21953   | 45.25  | 62.84       | -17.59 | 30.82  | 52.84       | ---    | 0.99        | 10.01   | 1.64     | 0.08        |
| 11 | 0.221575  | 43.46  | 62.76       | -19.30 | 27.95  | 52.76       | ---    | 0.98        | 10.01   | 1.63     | 0.08        |
| 12 | 0.258385  | 40.54  | 61.48       | -20.94 | 25.45  | 51.48       | ---    | 0.82        | 10.17   | 1.44     | 0.06        |
| 13 | 0.26043   | 41.23  | 61.42       | -20.19 | 27.05  | 51.42       | ---    | 0.81        | 10.17   | 1.43     | 0.06        |
| 14 | 0.262475  | 41.16  | 61.35       | -20.19 | 27.13  | 51.35       | ---    | 0.81        | 10.17   | 1.43     | 0.06        |
| 15 | 0.26452   | 40.33  | 61.29       | -20.96 | 25.70  | 51.29       | ---    | 0.80        | 10.17   | 1.43     | 0.06        |
| 16 | 0.389265  | 36.15  | 58.08       | -21.93 | 22.59  | 48.08       | ---    | 0.54        | 10.14   | 1.03     | 0.10        |
| 17 | 0.39131   | 36.90  | 58.04       | -21.14 | 25.67  | 48.04       | ---    | 0.54        | 10.14   | 1.02     | 0.10        |
| 18 | 0.393355  | 37.26  | 57.99       | -20.73 | 26.48  | 47.99       | -21.51 | 0.54        | 10.14   | 1.02     | 0.10        |
| 19 | 0.3954    | 37.24  | 57.95       | -20.71 | 25.77  | 47.95       | ---    | 0.53        | 10.14   | 1.01     | 0.10        |
| 20 | 0.397445  | 36.56  | 57.91       | -21.35 | 23.83  | 47.91       | ---    | 0.53        | 10.14   | 1.01     | 0.10        |
| 21 | 0.4363    | 33.25  | 57.13       | ---    | 25.39  | 47.13       | -21.74 | 0.50        | 10.16   | 0.93     | 0.12        |



Report issuing date : 03-30-2017

Standard : FCC Part 15.207  
Test Type : Voltage Mains Test  
Test Site : DLS O.F. Screen Room  
Temperature : 71 °F  
Humidity : 32%  
Test Specs : Line 2  
Operator : Craig B  
DLS Project # : 8732  
Result : Pass

#### EUT

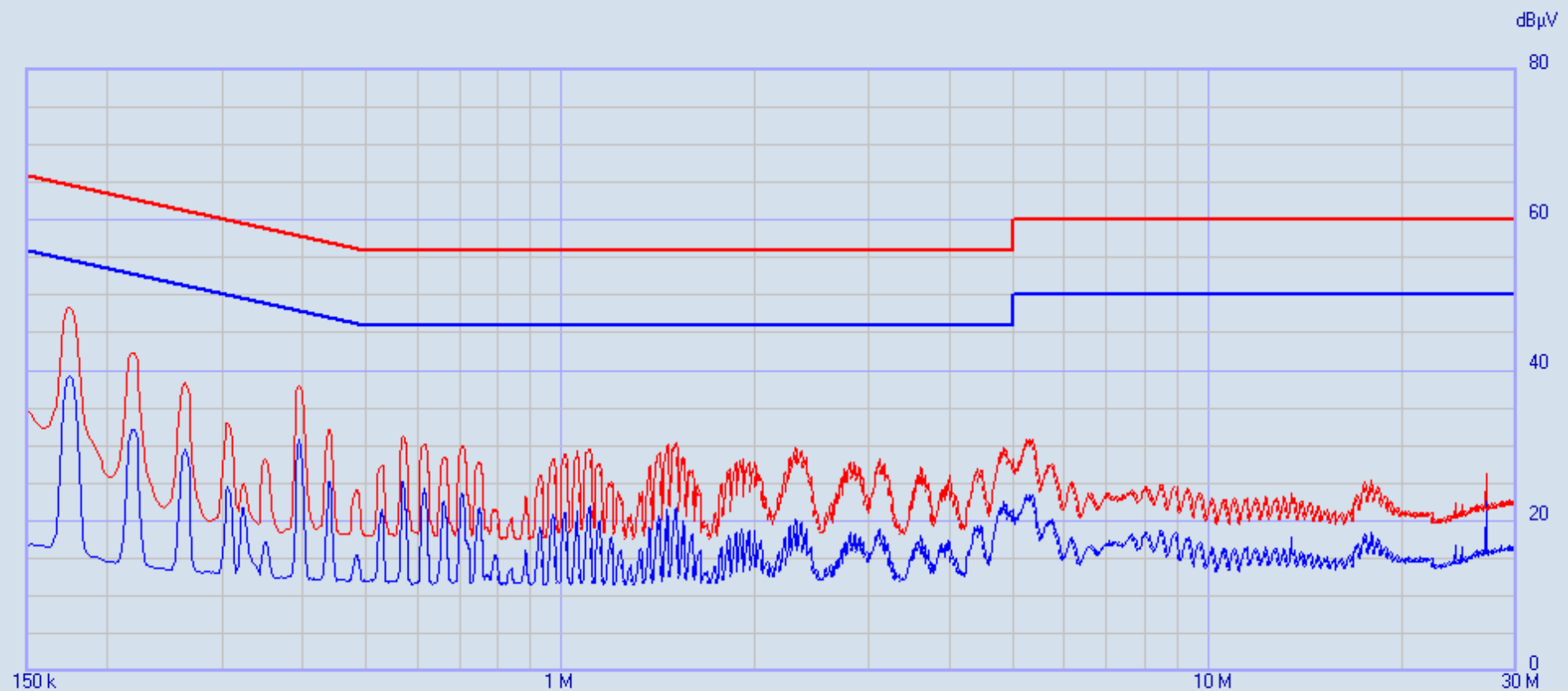
-----  
Manufacturer : Whirlpool Corporation  
Model : Tourmaline  
Product : WiFi module  
Notes : 120 V 60 Hz; Tx on On-board antenna 1

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

#### Receiver Details

-----  
Model : PMM 9010F  
Brand : Narda  
S/N : 020WW40102  
Last Calibration : 06/23/2016

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.



8732 Tourmaline 120V On-board 1 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<br>Class B V QP<br>Class B V AV | 1500 ms   | 9 kHz | 10      | OFF     | ON      | ...          | ...       |

Ancillary = General  
Nr. of Worst = Infinite (2)

Limits:  
FCC 15.207 QP  
FCC 15.207 AV

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

QPeak ———  
C-Avg ———

8732 Tourmaline 120V On-board 1 L2 30/03/2017 11:48:04  
 Rel. SW 2.22 (August 2015)  
 Rel. FW 1.54 20/04/16  
 Margin: 22 dB

|    | Frequency | QPeak  | Limit       | Delta  | C-Avg  | Limit       | Delta  | Factor      | Factor  | Factor   | Factor      |
|----|-----------|--------|-------------|--------|--------|-------------|--------|-------------|---------|----------|-------------|
|    | [MHz]     | [dBμV] | FCC 15_20.. | [dB]   | [dBμV] | FCC 15_20.. | [dB]   | LISN DLS#.. | EM-L705 | DLS #592 | Cables 43.. |
|    |           |        | [dBμV]      |        |        | [dBμV]      |        | [dB]        | [dB]    | [dB]     | [dB]        |
| 1  | 0.17045   | 46.09  | 64.94       | -18.85 | 35.23  | 54.94       | -19.71 | 1.39        | 10.01   | 1.97     | 0.08        |
| 2  | 0.172495  | 48.05  | 64.84       | -16.79 | 38.75  | 54.84       | -16.09 | 1.37        | 10.01   | 1.96     | 0.07        |
| 3  | 0.17454   | 48.32  | 64.74       | -16.42 | 39.25  | 54.74       | -15.49 | 1.35        | 10.01   | 1.94     | 0.07        |
| 4  | 0.176585  | 47.94  | 64.64       | -16.70 | 38.73  | 54.64       | -15.91 | 1.32        | 10.01   | 1.92     | 0.06        |
| 5  | 0.17863   | 45.85  | 64.55       | -18.70 | 35.40  | 54.55       | -19.15 | 1.30        | 10.01   | 1.91     | 0.05        |
| 6  | 0.21544   | 41.39  | 62.99       | -21.60 | 30.15  | 52.99       | ---    | 1.02        | 10.00   | 1.66     | 0.06        |
| 7  | 0.217485  | 42.24  | 62.91       | -20.67 | 32.07  | 52.91       | -20.84 | 1.00        | 10.00   | 1.65     | 0.07        |
| 8  | 0.21953   | 42.24  | 62.84       | -20.60 | 32.15  | 52.84       | -20.69 | 0.99        | 10.01   | 1.64     | 0.08        |
| 9  | 0.221575  | 41.52  | 62.76       | -21.24 | 30.73  | 52.76       | ---    | 0.98        | 10.01   | 1.63     | 0.08        |
| 10 | 0.262475  | 38.30  | 61.35       | ---    | 29.42  | 51.35       | -21.93 | 0.81        | 10.17   | 1.43     | 0.06        |
| 11 | 0.39131   | 36.80  | 58.04       | -21.24 | 26.35  | 48.04       | -21.69 | 0.54        | 10.14   | 1.02     | 0.10        |
| 12 | 0.393355  | 37.64  | 57.99       | -20.35 | 29.70  | 47.99       | -18.29 | 0.54        | 10.14   | 1.02     | 0.10        |
| 13 | 0.3954    | 37.97  | 57.95       | -19.98 | 30.71  | 47.95       | -17.24 | 0.53        | 10.14   | 1.01     | 0.10        |
| 14 | 0.397445  | 37.82  | 57.91       | -20.09 | 29.78  | 47.91       | -18.13 | 0.53        | 10.14   | 1.01     | 0.10        |
| 15 | 0.39949   | 36.99  | 57.86       | -20.87 | 27.11  | 47.86       | -20.75 | 0.53        | 10.14   | 1.00     | 0.10        |
| 16 | 0.438345  | 32.03  | 57.09       | ---    | 25.20  | 47.09       | -21.89 | 0.50        | 10.16   | 0.93     | 0.12        |
| 17 | 0.44039   | 31.62  | 57.05       | ---    | 25.18  | 47.05       | -21.87 | 0.49        | 10.16   | 0.92     | 0.12        |
| 18 | 0.57127   | 31.00  | 56.00       | ---    | 25.20  | 46.00       | -20.80 | 0.42        | 10.19   | 0.73     | 0.14        |
| 19 | 0.573315  | 31.23  | 56.00       | ---    | 25.14  | 46.00       | -20.86 | 0.42        | 10.19   | 0.73     | 0.14        |
| 20 | 0.61626   | 30.07  | 56.00       | ---    | 24.22  | 46.00       | -21.78 | 0.40        | 10.18   | 0.70     | 0.15        |



Report issuing date : 03-30-2017

Standard : FCC Part 15.207  
Test Type : Voltage Mains Test  
Test Site : DLS O.F. Screen Room  
Temperature : 71 °F  
Humidity : 32%  
Test Specs : Line 1  
Operator : Craig B  
DLS Project # : 8732  
Result : Pass

#### EUT

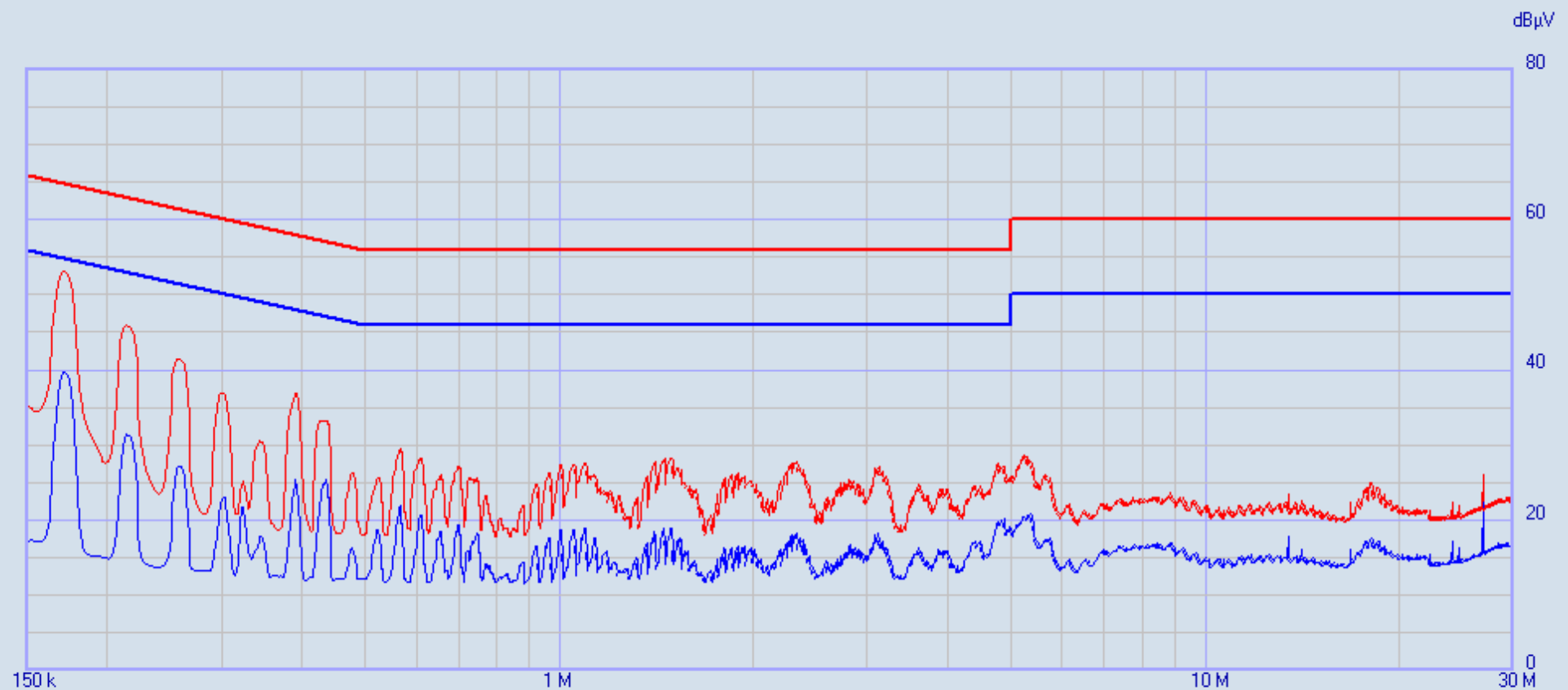
-----  
Manufacturer : Whirlpool Corporation  
Model : Tourmaline  
Product : WiFi module  
Notes : 120 V 60 Hz; Tx on On-board antenna 2

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

#### Receiver Details

-----  
Model : PMM 9010F  
Brand : Narda  
S/N : 020WW40102  
Last Calibration : 06/23/2016

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.



8732 Tourmaline 120V On-board 2 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<br>Class B V QP<br>Class B V AV | 1500 ms   | 9 kHz | 10      | OFF     | ON      | ...          | ...       |

Ancillary = General  
Nr. of Worst = Infinite (2)

Limits:  
Class B V QP  
Class B V AV

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

QPeak ———  
C-Avg ———

8732 Tourmaline 120V On-board 2 L1 30/03/2017 12:25:47

Rel. SW 2.22 (August 2015)

Rel. FW 1.54 20/04/16

Margin: 22 dB

|    | Frequency | QPeak  | Limit       | Delta  | C-Avg  | Limit       | Delta  | Factor      | Factor  | Factor   | Factor      |
|----|-----------|--------|-------------|--------|--------|-------------|--------|-------------|---------|----------|-------------|
|    | [MHz]     | [dBμV] | Class B V.. | [dB]   | [dBμV] | Class B V.. | [dB]   | LISN DLS#.. | EM-L705 | DLS #592 | Cables 43.. |
|    |           |        | [dBμV]      |        |        |             |        | [dB]        | [dB]    | [dB]     | [dB]        |
| 1  | 0.164315  | 44.96  | 65.24       | -20.28 | 26.69  | 55.24       | ---    | 1.46        | 10.00   | 2.03     | 0.10        |
| 2  | 0.16636   | 50.26  | 65.14       | -14.88 | 34.03  | 55.14       | -21.11 | 1.43        | 10.01   | 2.01     | 0.09        |
| 3  | 0.168405  | 52.45  | 65.04       | -12.59 | 38.33  | 55.04       | -16.71 | 1.41        | 10.01   | 1.99     | 0.09        |
| 4  | 0.17045   | 53.06  | 64.94       | -11.88 | 39.59  | 54.94       | -15.35 | 1.39        | 10.01   | 1.97     | 0.08        |
| 5  | 0.172495  | 52.86  | 64.84       | -11.98 | 39.42  | 54.84       | -15.42 | 1.37        | 10.01   | 1.96     | 0.07        |
| 6  | 0.17454   | 52.32  | 64.74       | -12.42 | 38.71  | 54.74       | -16.03 | 1.35        | 10.01   | 1.94     | 0.07        |
| 7  | 0.176585  | 50.26  | 64.64       | -14.38 | 35.44  | 54.64       | -19.20 | 1.32        | 10.01   | 1.92     | 0.06        |
| 8  | 0.17863   | 44.62  | 64.55       | -19.93 | 27.88  | 54.55       | ---    | 1.30        | 10.01   | 1.91     | 0.05        |
| 9  | 0.209305  | 43.51  | 63.23       | -19.72 | 25.86  | 53.23       | ---    | 1.06        | 9.99    | 1.69     | 0.04        |
| 10 | 0.21135   | 45.47  | 63.15       | -17.68 | 29.78  | 53.15       | ---    | 1.05        | 10.00   | 1.68     | 0.05        |
| 11 | 0.213395  | 45.99  | 63.07       | -17.08 | 31.44  | 53.07       | -21.63 | 1.03        | 10.00   | 1.67     | 0.05        |
| 12 | 0.21544   | 45.83  | 62.99       | -17.16 | 31.32  | 52.99       | -21.67 | 1.02        | 10.00   | 1.66     | 0.06        |
| 13 | 0.217485  | 45.58  | 62.91       | -17.33 | 31.01  | 52.91       | -21.90 | 1.00        | 10.00   | 1.65     | 0.07        |
| 14 | 0.21953   | 44.49  | 62.84       | -18.35 | 28.94  | 52.84       | ---    | 0.99        | 10.01   | 1.64     | 0.08        |
| 15 | 0.221575  | 40.92  | 62.76       | -21.84 | 24.01  | 52.76       | ---    | 0.98        | 10.01   | 1.63     | 0.08        |
| 16 | 0.254295  | 40.83  | 61.62       | -20.79 | 24.89  | 51.62       | ---    | 0.84        | 10.15   | 1.46     | 0.07        |
| 17 | 0.25634   | 41.39  | 61.55       | -20.16 | 26.92  | 51.55       | ---    | 0.83        | 10.16   | 1.45     | 0.06        |
| 18 | 0.258385  | 41.42  | 61.48       | -20.06 | 27.00  | 51.48       | ---    | 0.82        | 10.17   | 1.44     | 0.06        |
| 19 | 0.26043   | 41.28  | 61.42       | -20.14 | 27.08  | 51.42       | ---    | 0.81        | 10.17   | 1.43     | 0.06        |
| 20 | 0.262475  | 40.72  | 61.35       | -20.63 | 25.79  | 51.35       | ---    | 0.81        | 10.17   | 1.43     | 0.06        |
| 21 | 0.389265  | 36.46  | 58.08       | -21.62 | 24.68  | 48.08       | ---    | 0.54        | 10.14   | 1.03     | 0.10        |
| 22 | 0.39131   | 36.86  | 58.04       | -21.18 | 25.33  | 48.04       | ---    | 0.54        | 10.14   | 1.02     | 0.10        |
| 23 | 0.393355  | 36.85  | 57.99       | -21.14 | 24.38  | 47.99       | ---    | 0.54        | 10.14   | 1.02     | 0.10        |
| 24 | 0.3954    | 36.02  | 57.95       | -21.93 | 22.44  | 47.95       | ---    | 0.53        | 10.14   | 1.01     | 0.10        |
| 25 | 0.434255  | 33.26  | 57.17       | ---    | 25.28  | 47.17       | -21.89 | 0.50        | 10.16   | 0.93     | 0.12        |



Report issuing date : 03-30-2017

Standard : FCC Part 15.207  
Test Type : Voltage Mains Test  
Test Site : DLS O.F. Screen Room  
Temperature : 71 °F  
Humidity : 32%  
Test Specs : Line 2  
Operator : Craig B  
DLS Project # : 8732  
Result : Pass

#### EUT

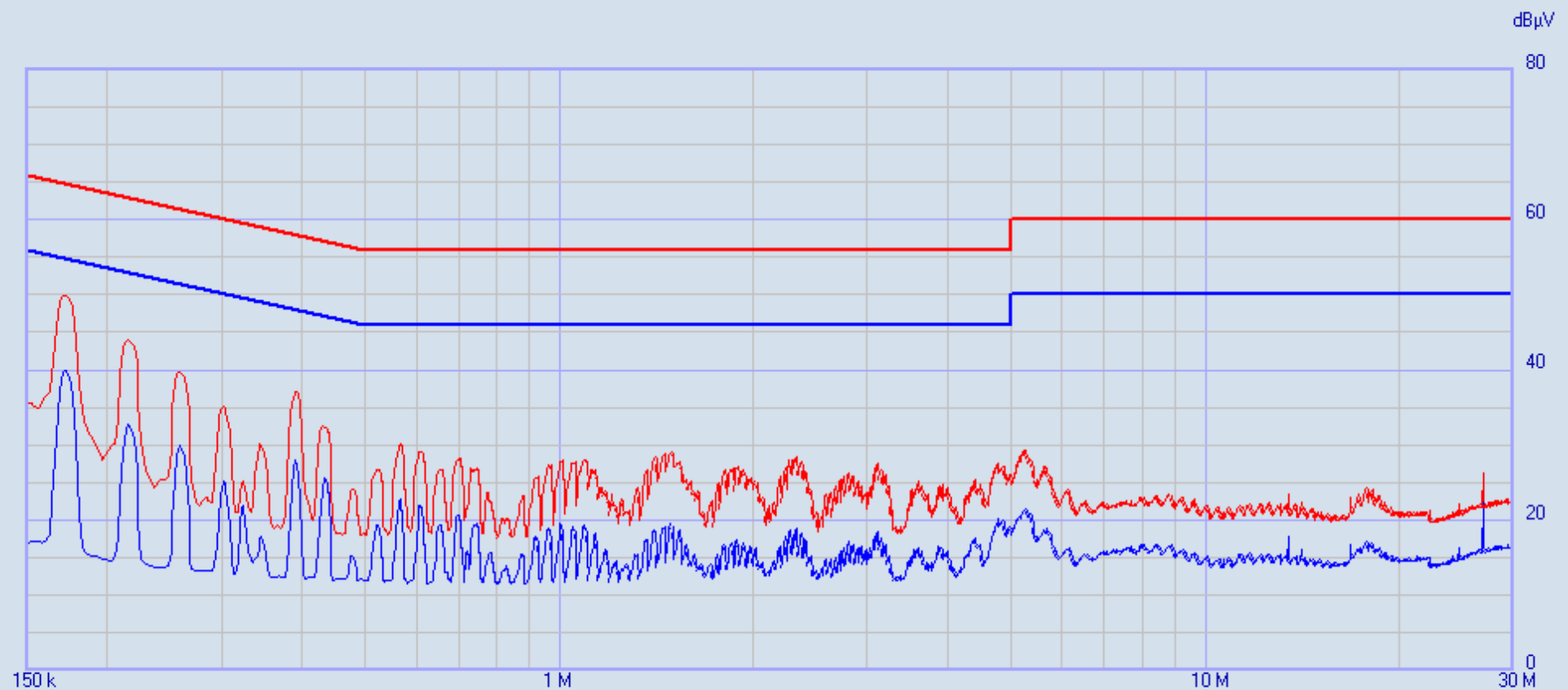
-----  
Manufacturer : Whirlpool Corporation  
Model : Tourmaline  
Product : WiFi module  
Notes : 120 V 60 Hz; Tx on On-board antenna 2

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

#### Receiver Details

-----  
Model : PMM 9010F  
Brand : Narda  
S/N : 020WW40102  
Last Calibration : 06/23/2016

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.



8732 Tourmaline 120V On-board 2 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<br>Class B V QP<br>Class B V AV | 1500 ms   | 9 kHz | 10      | OFF     | ON      | ...          | ...       |

Ancillary = General  
Nr. of Worst = Infinite (2)

Limits:  
Class B V QP  
Class B V AV

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

QPeak ———  
C-Avg ———

8732 Tourmaline 120V On-board 2 L2 30/03/2017 12:29:09

Rel. SW 2.22 (August 2015)

Rel. FW 1.54 20/04/16

Margin: 22 dB

|    | Frequency | QPeak  | Limit       | Delta  | C-Avg  | Limit       | Delta  | Factor      | Factor  | Factor   | Factor      |
|----|-----------|--------|-------------|--------|--------|-------------|--------|-------------|---------|----------|-------------|
|    | [MHz]     | [dBμV] | Class B V.. | [dB]   | [dBμV] | Class B V.. | [dB]   | LISN DLS#.. | EM-L705 | DLS #592 | Cables 43.. |
|    |           |        | [dBμV]      |        |        | [dBμV]      |        | [dB]        | [dB]    | [dB]     | [dB]        |
| 1  | 0.16636   | 45.47  | 65.14       | -19.67 | 30.99  | 55.14       | ---    | 1.43        | 10.01   | 2.01     | 0.09        |
| 2  | 0.168405  | 49.00  | 65.04       | -16.04 | 37.27  | 55.04       | -17.77 | 1.41        | 10.01   | 1.99     | 0.09        |
| 3  | 0.17045   | 49.85  | 64.94       | -15.09 | 39.66  | 54.94       | -15.28 | 1.39        | 10.01   | 1.97     | 0.08        |
| 4  | 0.172495  | 49.99  | 64.84       | -14.85 | 39.83  | 54.84       | -15.01 | 1.37        | 10.01   | 1.96     | 0.07        |
| 5  | 0.17454   | 49.47  | 64.74       | -15.27 | 38.98  | 54.74       | -15.76 | 1.35        | 10.01   | 1.94     | 0.07        |
| 6  | 0.176585  | 48.26  | 64.64       | -16.38 | 36.66  | 54.64       | -17.98 | 1.32        | 10.01   | 1.92     | 0.06        |
| 7  | 0.17863   | 44.02  | 64.55       | -20.53 | 30.33  | 54.55       | ---    | 1.30        | 10.01   | 1.91     | 0.05        |
| 8  | 0.21135   | 42.90  | 63.15       | -20.25 | 29.13  | 53.15       | ---    | 1.05        | 10.00   | 1.68     | 0.05        |
| 9  | 0.213395  | 43.90  | 63.07       | -19.17 | 32.15  | 53.07       | -20.92 | 1.03        | 10.00   | 1.67     | 0.05        |
| 10 | 0.21544   | 43.97  | 62.99       | -19.02 | 32.78  | 52.99       | -20.21 | 1.02        | 10.00   | 1.66     | 0.06        |
| 11 | 0.217485  | 43.68  | 62.91       | -19.23 | 32.13  | 52.91       | -20.78 | 1.00        | 10.00   | 1.65     | 0.07        |
| 12 | 0.21953   | 43.05  | 62.84       | -19.79 | 30.70  | 52.84       | ---    | 0.99        | 10.01   | 1.64     | 0.08        |
| 13 | 0.221575  | 40.88  | 62.76       | -21.88 | 26.68  | 52.76       | ---    | 0.98        | 10.01   | 1.63     | 0.08        |
| 14 | 0.258385  | 39.73  | 61.48       | -21.75 | 29.97  | 51.48       | -21.51 | 0.82        | 10.17   | 1.44     | 0.06        |
| 15 | 0.26043   | 39.49  | 61.42       | -21.93 | 29.56  | 51.42       | -21.86 | 0.81        | 10.17   | 1.43     | 0.06        |
| 16 | 0.38722   | 36.26  | 58.12       | -21.86 | 26.79  | 48.12       | -21.33 | 0.54        | 10.14   | 1.03     | 0.10        |
| 17 | 0.389265  | 36.77  | 58.08       | -21.31 | 27.96  | 48.08       | -20.12 | 0.54        | 10.14   | 1.03     | 0.10        |
| 18 | 0.39131   | 37.09  | 58.04       | -20.95 | 28.06  | 48.04       | -19.98 | 0.54        | 10.14   | 1.02     | 0.10        |
| 19 | 0.393355  | 37.13  | 57.99       | -20.86 | 27.59  | 47.99       | -20.40 | 0.54        | 10.14   | 1.02     | 0.10        |
| 20 | 0.3954    | 36.79  | 57.95       | -21.16 | 25.90  | 47.95       | ---    | 0.53        | 10.14   | 1.01     | 0.10        |
| 21 | 0.43221   | 32.35  | 57.21       | ---    | 25.49  | 47.21       | -21.72 | 0.50        | 10.16   | 0.94     | 0.12        |
| 22 | 0.434255  | 32.40  | 57.17       | ---    | 25.43  | 47.17       | -21.74 | 0.50        | 10.16   | 0.93     | 0.12        |



Report issuing date : 03-30-2017

Standard : FCC Part 15.207  
Test Type : Voltage Mains Test  
Test Site : DLS O.F. Screen Room  
Temperature : 71 °F  
Humidity : 32%  
Test Specs : Line 1  
Operator : Craig B  
DLS Project # : 8732  
Result : Pass

#### EUT

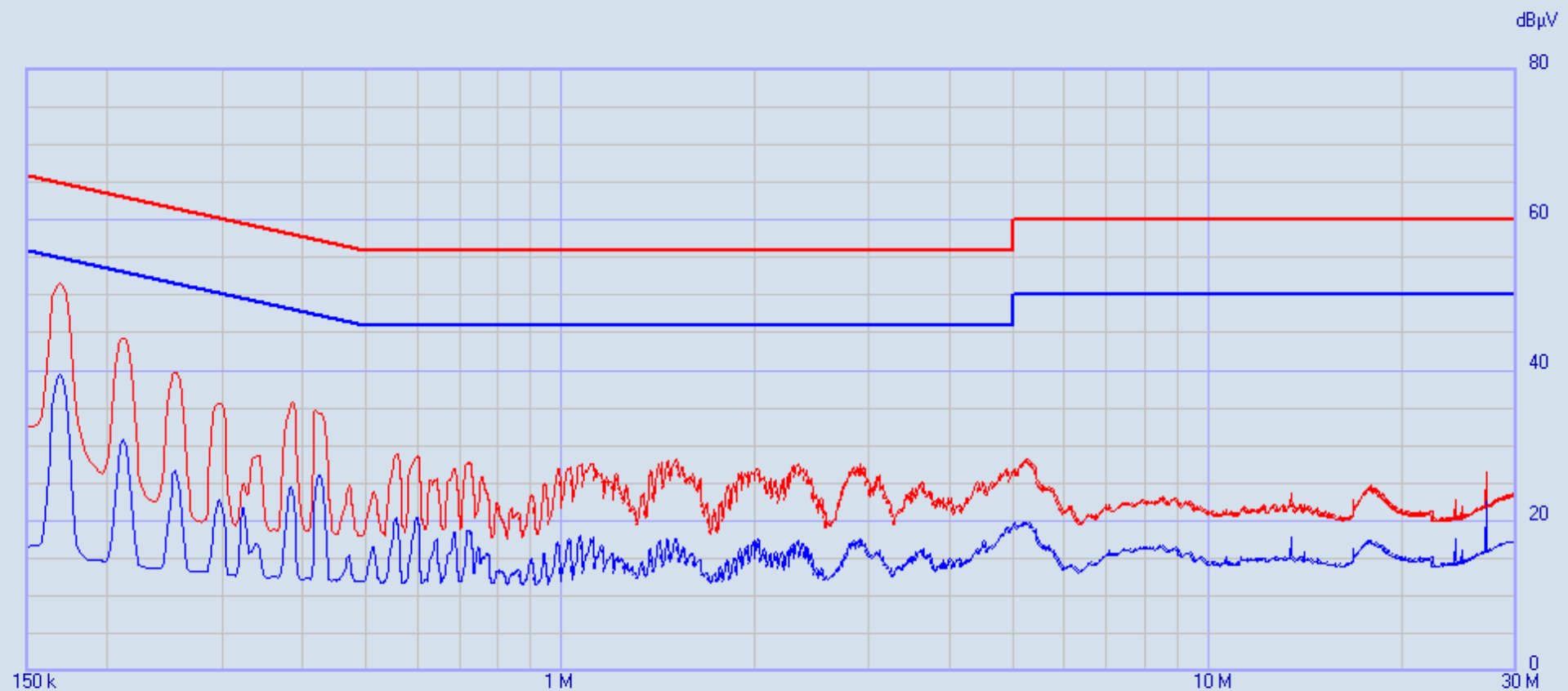
-----  
Manufacturer : Whirlpool Corporation  
Model : Tourmaline  
Product : WiFi module  
Notes : 120 V 60 Hz; Tx on external PIFA antenna

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

#### Receiver Details

-----  
Model : PMM 9010F  
Brand : Narda  
S/N : 020WW40102  
Last Calibration : 06/23/2016

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.



8732 Tourmaline 120V PIFA 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<br>Class B V QP<br>Class B V AV | 1500 ms   | 9 kHz | 10      | OFF     | ON      | ...          | ...       |

Ancillary = General  
Nr. of Worst = Infinite (2)

Limits:  
FCC 15\_207 QP  
FCC 15\_207 AV

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

QPeak ———  
C-Avg ———

8732 Tourmaline 120V PIFA L1 30/03/2017 13:03:52

Rel. SW 2.22 (August 2015)

Rel. FW 1.54 20/04/16

Margin: 22 dB

|    | Frequency | QPeak  | Limit       | Delta  | C-Avg  | Limit       | Delta  | Factor      | Factor  | Factor   | Factor      |
|----|-----------|--------|-------------|--------|--------|-------------|--------|-------------|---------|----------|-------------|
|    | [MHz]     | [dBμV] | FCC 15_20.. | [dB]   | [dBμV] | FCC 15_20.. | [dB]   | LISN DLS#.. | EM-L705 | DLS #592 | Cables 43.. |
|    |           |        | [dBμV]      |        |        | [dBμV]      |        | [dB]        | [dB]    | [dB]     | [dB]        |
| 1  | 0.16227   | 45.37  | 65.35       | -19.98 | 28.47  | 55.35       | ---    | 1.49        | 10.00   | 2.05     | 0.11        |
| 2  | 0.164315  | 49.77  | 65.24       | -15.47 | 35.06  | 55.24       | -20.18 | 1.46        | 10.00   | 2.03     | 0.10        |
| 3  | 0.16636   | 51.23  | 65.14       | -13.91 | 38.51  | 55.14       | -16.63 | 1.43        | 10.01   | 2.01     | 0.09        |
| 4  | 0.168405  | 51.59  | 65.04       | -13.45 | 39.45  | 55.04       | -15.59 | 1.41        | 10.01   | 1.99     | 0.09        |
| 5  | 0.17045   | 51.20  | 64.94       | -13.74 | 38.77  | 54.94       | -16.17 | 1.39        | 10.01   | 1.97     | 0.08        |
| 6  | 0.172495  | 50.13  | 64.84       | -14.71 | 36.13  | 54.84       | -18.71 | 1.37        | 10.01   | 1.96     | 0.07        |
| 7  | 0.17454   | 46.54  | 64.74       | -18.20 | 30.23  | 54.74       | ---    | 1.35        | 10.01   | 1.94     | 0.07        |
| 8  | 0.20726   | 43.11  | 63.31       | -20.20 | 27.32  | 53.31       | ---    | 1.07        | 9.99    | 1.70     | 0.03        |
| 9  | 0.209305  | 44.06  | 63.23       | -19.17 | 30.07  | 53.23       | ---    | 1.06        | 9.99    | 1.69     | 0.04        |
| 10 | 0.21135   | 44.25  | 63.15       | -18.90 | 30.80  | 53.15       | ---    | 1.05        | 10.00   | 1.68     | 0.05        |
| 11 | 0.213395  | 44.00  | 63.07       | -19.07 | 29.86  | 53.07       | ---    | 1.03        | 10.00   | 1.67     | 0.05        |
| 12 | 0.21544   | 43.07  | 62.99       | -19.92 | 27.27  | 52.99       | ---    | 1.02        | 10.00   | 1.66     | 0.06        |
| 13 | 0.254295  | 39.75  | 61.62       | -21.87 | 26.68  | 51.62       | ---    | 0.84        | 10.15   | 1.46     | 0.07        |
| 14 | 0.25634   | 39.64  | 61.55       | -21.91 | 25.76  | 51.55       | ---    | 0.83        | 10.16   | 1.45     | 0.06        |
| 15 | 0.42403   | 34.36  | 57.37       | ---    | 26.12  | 47.37       | -21.25 | 0.51        | 10.15   | 0.96     | 0.11        |
| 16 | 0.426075  | 34.26  | 57.33       | ---    | 26.10  | 47.33       | -21.23 | 0.51        | 10.15   | 0.95     | 0.11        |
| 17 | 0.42812   | 34.23  | 57.29       | ---    | 25.44  | 47.29       | -21.85 | 0.50        | 10.15   | 0.95     | 0.11        |



Report issuing date : 03-30-2017

Standard : FCC Part 15.207  
Test Type : Voltage Mains Test  
Test Site : DLS O.F. Screen Room  
Temperature : 71 °F  
Humidity : 32%  
Test Specs : Line 2  
Operator : Craig B  
DLS Project # : 8732  
Result : Pass

#### EUT

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Manufacturer : Whirlpool Corporation  
Model : Tourmaline  
Product : WiFi module  
Notes : 120 V 60 Hz; Tx on external PIFA antenna

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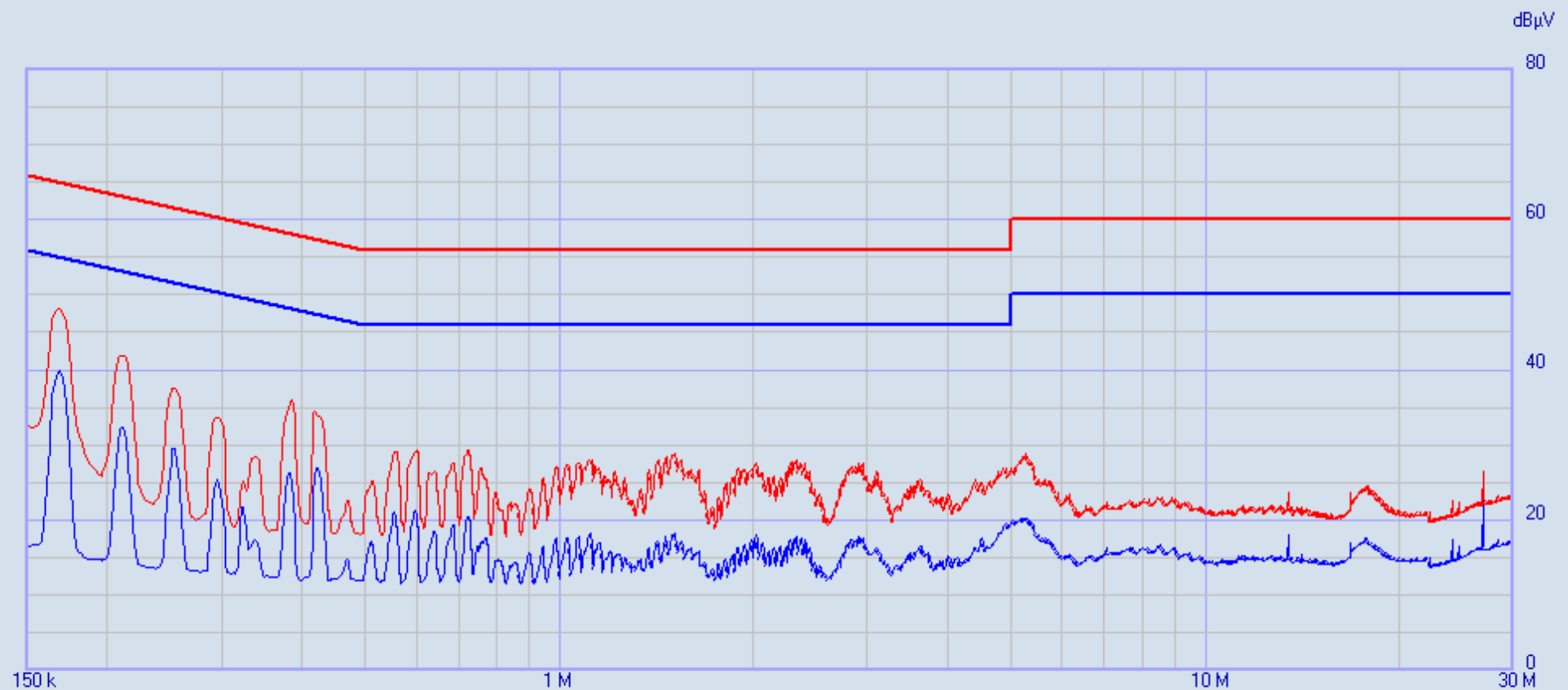
Testing Company : DLS Electronic Systems  
Tel./Fax : 262-279-0210  
Web site : <http://www.dlsemc.com>

#### Receiver Details

-----

Model : PMM 9010F  
Brand : Narda  
S/N : 020WW40102  
Last Calibration : 06/23/2016

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.



8732 Tourmaline 120V PIFA 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<br>Class B V QP<br>Class B V AV | 1500 ms   | 9 kHz | 10      | OFF     | ON      | ...          | ...       |

Ancillary = General  
Nr. of Worst = Infinite (2)

Limits:  
FCC 15\_207 QP  
FCC 15\_207 AV

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

QPeak ———  
C-Avg ———

8732 Tourmaline 120V PIFA L2 30/03/2017 13:08:48  
 Rel. SW 2.22 (August 2015)  
 Rel. FW 1.54 20/04/16  
 Margin: 22 dB

|    | Frequency | QPeak  | Limit       | Delta  | C-Avg  | Limit       | Delta  | Factor      | Factor  | Factor   | Factor      |
|----|-----------|--------|-------------|--------|--------|-------------|--------|-------------|---------|----------|-------------|
|    | [MHz]     | [dBμV] | FCC 15_20.. | [dB]   | [dBμV] | FCC 15_20.. | [dB]   | LISN DLS#.. | EM-L705 | DLS #592 | Cables 43.. |
|    |           |        | [dBμV]      |        |        | [dBμV]      |        | [dB]        | [dB]    | [dB]     | [dB]        |
| 1  | 0.164315  | 46.92  | 65.24       | -18.32 | 36.35  | 55.24       | -18.89 | 1.46        | 10.00   | 2.03     | 0.10        |
| 2  | 0.16636   | 47.87  | 65.14       | -17.27 | 39.29  | 55.14       | -15.85 | 1.43        | 10.01   | 2.01     | 0.09        |
| 3  | 0.168405  | 48.05  | 65.04       | -16.99 | 39.89  | 55.04       | -15.15 | 1.41        | 10.01   | 1.99     | 0.09        |
| 4  | 0.17045   | 47.58  | 64.94       | -17.36 | 38.92  | 54.94       | -16.02 | 1.39        | 10.01   | 1.97     | 0.08        |
| 5  | 0.172495  | 46.43  | 64.84       | -18.41 | 35.59  | 54.84       | -19.25 | 1.37        | 10.01   | 1.96     | 0.07        |
| 6  | 0.20726   | 41.40  | 63.31       | -21.91 | 29.85  | 53.31       | ---    | 1.07        | 9.99    | 1.70     | 0.03        |
| 7  | 0.209305  | 41.89  | 63.23       | -21.34 | 32.04  | 53.23       | -21.19 | 1.06        | 9.99    | 1.69     | 0.04        |
| 8  | 0.21135   | 41.83  | 63.15       | -21.32 | 32.32  | 53.15       | -20.83 | 1.05        | 10.00   | 1.68     | 0.05        |
| 9  | 0.213395  | 41.56  | 63.07       | -21.51 | 30.87  | 53.07       | ---    | 1.03        | 10.00   | 1.67     | 0.05        |
| 10 | 0.381085  | 34.87  | 58.26       | ---    | 26.34  | 48.26       | -21.92 | 0.55        | 10.14   | 1.04     | 0.09        |
| 11 | 0.41994   | 34.45  | 57.45       | ---    | 25.69  | 47.45       | -21.76 | 0.51        | 10.15   | 0.96     | 0.11        |
| 12 | 0.421985  | 34.17  | 57.41       | ---    | 26.88  | 47.41       | -20.53 | 0.51        | 10.15   | 0.96     | 0.11        |
| 13 | 0.42403   | 33.86  | 57.37       | ---    | 26.98  | 47.37       | -20.39 | 0.51        | 10.15   | 0.96     | 0.11        |
| 14 | 0.426075  | 33.77  | 57.33       | ---    | 26.37  | 47.33       | -20.96 | 0.51        | 10.15   | 0.95     | 0.11        |



Report issuing date : 03-30-2017

Standard : FCC Part 15.207  
Test Type : Voltage Mains Test  
Test Site : DLS O.F. Screen Room  
Temperature : 71 °F  
Humidity : 32%  
Test Specs : Line 1  
Operator : Craig B  
DLS Project # : 8732  
Result : Pass

#### EUT

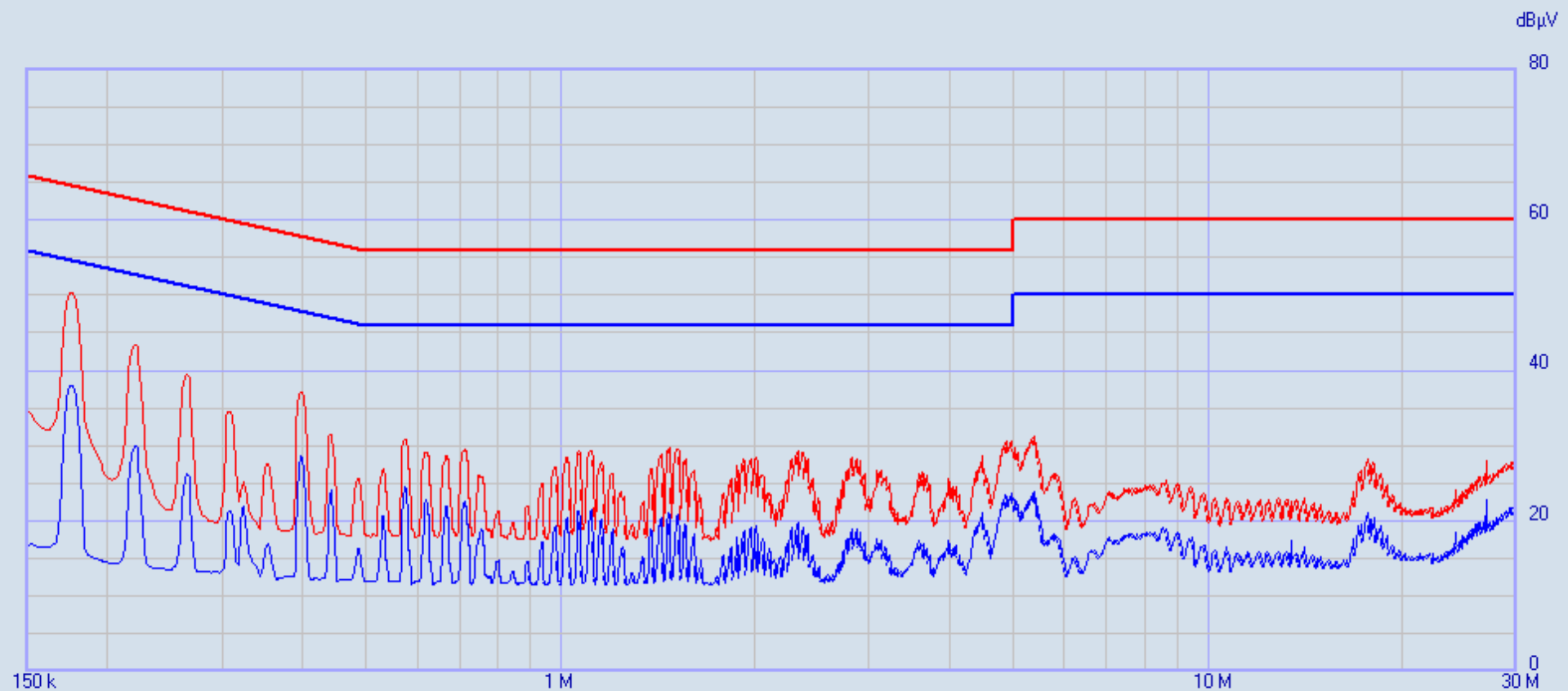
-----  
Manufacturer : Whirlpool Corporation  
Model : Tourmaline  
Product : WiFi module  
Notes : 120 V 60 Hz; Tx on external F antenna

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

#### Receiver Details

-----  
Model : PMM 9010F  
Brand : Narda  
S/N : 020WW40102  
Last Calibration : 06/23/2016

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.



8732 Tourmaline 120V F 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<br>Class B V QP<br>Class B V AV | 1500 ms   | 9 kHz | 10      | OFF     | ON      | ...          | ...       |

Ancillary = General  
Nr. of Worst = Infinite (2)

Limits:  
FCC 15\_207 QP  
FCC 15\_207 AV

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

QPeak ———  
C-Avg ———

8732 Tourmaline 120V F L1 30/03/2017 13:18:38  
 Rel. SW 2.22 (August 2015)  
 Rel. FW 1.54 20/04/16  
 Margin: 22 dB

| Frequency | QPeak    | Limit       | Delta | C-Avg  | Limit       | Delta | Factor      | Factor  | Factor   | Factor      |      |
|-----------|----------|-------------|-------|--------|-------------|-------|-------------|---------|----------|-------------|------|
| [MHz]     | [dBμV]   | FCC 15_20.. | [dB]  | [dBμV] | FCC 15_20.. | [dB]  | LISN DLS#.. | EM-L705 | DLS #592 | Cables 43.. |      |
|           |          | [dBμV]      |       |        | [dBμV]      |       | [dB]        | [dB]    | [dB]     | [dB]        |      |
| 1         | 0.17045  | 44.79       | 64.94 | -20.15 | 30.01       | 54.94 | ---         | 1.39    | 10.01    | 1.97        | 0.08 |
| 2         | 0.172495 | 49.06       | 64.84 | -15.78 | 36.13       | 54.84 | -18.71      | 1.37    | 10.01    | 1.96        | 0.07 |
| 3         | 0.17454  | 50.30       | 64.74 | -14.44 | 37.86       | 54.74 | -16.88      | 1.35    | 10.01    | 1.94        | 0.07 |
| 4         | 0.176585 | 50.29       | 64.64 | -14.35 | 37.86       | 54.64 | -16.78      | 1.32    | 10.01    | 1.92        | 0.06 |
| 5         | 0.17863  | 49.17       | 64.55 | -15.38 | 36.61       | 54.55 | -17.94      | 1.30    | 10.01    | 1.91        | 0.05 |
| 6         | 0.180675 | 45.24       | 64.45 | -19.21 | 31.30       | 54.45 | ---         | 1.28    | 10.01    | 1.89        | 0.05 |
| 7         | 0.217485 | 42.63       | 62.91 | -20.28 | 28.80       | 52.91 | ---         | 1.00    | 10.00    | 1.65        | 0.07 |
| 8         | 0.21953  | 43.35       | 62.84 | -19.49 | 29.84       | 52.84 | ---         | 0.99    | 10.01    | 1.64        | 0.08 |
| 9         | 0.221575 | 43.11       | 62.76 | -19.65 | 29.67       | 52.76 | ---         | 0.98    | 10.01    | 1.63        | 0.08 |
| 10        | 0.22362  | 41.76       | 62.68 | -20.92 | 27.68       | 52.68 | ---         | 0.97    | 10.01    | 1.62        | 0.09 |
| 11        | 0.26452  | 39.42       | 61.29 | -21.87 | 26.20       | 51.29 | ---         | 0.80    | 10.17    | 1.43        | 0.06 |
| 12        | 0.3954   | 36.69       | 57.95 | -21.26 | 27.17       | 47.95 | -20.78      | 0.53    | 10.14    | 1.01        | 0.10 |
| 13        | 0.397445 | 37.12       | 57.91 | -20.79 | 28.65       | 47.91 | -19.26      | 0.53    | 10.14    | 1.01        | 0.10 |
| 14        | 0.39949  | 37.03       | 57.86 | -20.83 | 28.34       | 47.86 | -19.52      | 0.53    | 10.14    | 1.00        | 0.10 |
| 15        | 0.401535 | 36.39       | 57.82 | -21.43 | 26.43       | 47.82 | -21.39      | 0.53    | 10.14    | 1.00        | 0.10 |
| 16        | 0.57536  | 30.75       | 56.00 | ---    | 24.47       | 46.00 | -21.53      | 0.42    | 10.19    | 0.73        | 0.14 |
| 17        | 0.577405 | 30.83       | 56.00 | ---    | 24.21       | 46.00 | -21.79      | 0.41    | 10.19    | 0.73        | 0.14 |



Report issuing date : 03-30-2017

Standard : FCC Part 15.207  
Test Type : Voltage Mains Test  
Test Site : DLS O.F. Screen Room  
Temperature : 71 °F  
Humidity : 32%  
Test Specs : Line 2  
Operator : Craig B  
DLS Project # : 8732  
Result : Pass

#### EUT

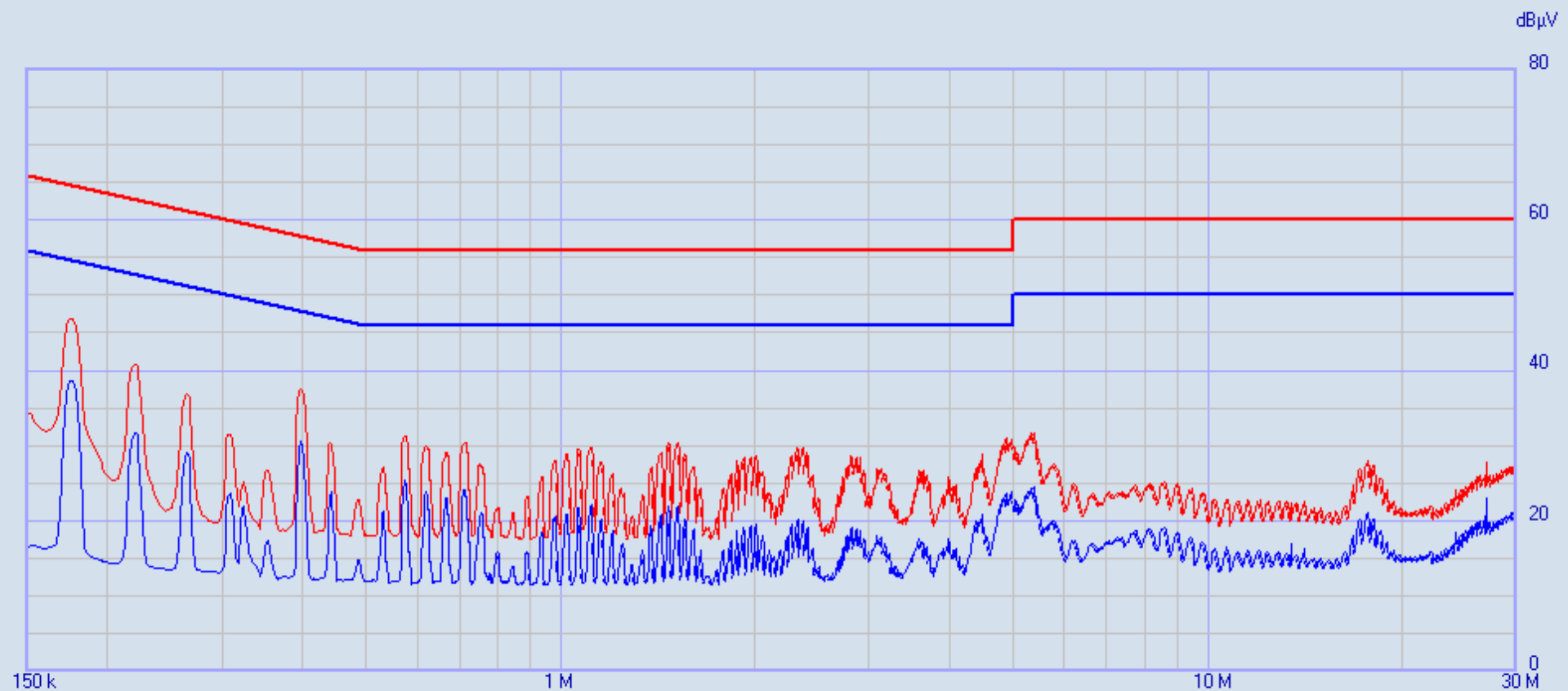
-----  
Manufacturer : Whirlpool Corporation  
Model : Tourmaline  
Product : WiFi module  
Notes : 120 V 60 Hz; Tx on external F antenna

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

#### Receiver Details

-----  
Model : PMM 9010F  
Brand : Narda  
S/N : 020WW40102  
Last Calibration : 06/23/2016

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.



8732 Tourmaline 120V F 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<br>Class B V QP<br>Class B V AV | 1500 ms   | 9 kHz | 10      | OFF     | ON      | ...          | ...       |

Ancillary = General  
Nr. of Worst = Infinite (2)

Limits:  
FCC 15\_207 QP  
FCC 15\_207 AV

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

QPeak ———  
C-Avg ———

8732 Tourmaline 120V F L2 30/03/2017 13:21:57

Rel. SW 2.22 (August 2015)

Rel. FW 1.54 20/04/16

Margin: 22 dB

|    | Frequency | QPeak  | Limit       | Delta  | C-Avg  | Limit       | Delta  | Factor      | Factor  | Factor   | Factor      |
|----|-----------|--------|-------------|--------|--------|-------------|--------|-------------|---------|----------|-------------|
|    | [MHz]     | [dBμV] | FCC 15_20.. | [dB]   | [dBμV] | FCC 15_20.. | [dB]   | LISN DLS#.. | EM-L705 | DLS #592 | Cables 43.. |
|    |           |        | [dBμV]      |        |        | [dBμV]      |        | [dB]        | [dB]    | [dB]     | [dB]        |
| 1  | 0.172495  | 45.98  | 64.84       | -18.86 | 36.91  | 54.84       | -17.93 | 1.37        | 10.01   | 1.96     | 0.07        |
| 2  | 0.17454   | 46.91  | 64.74       | -17.83 | 38.66  | 54.74       | -16.08 | 1.35        | 10.01   | 1.94     | 0.07        |
| 3  | 0.176585  | 46.91  | 64.64       | -17.73 | 38.65  | 54.64       | -15.99 | 1.32        | 10.01   | 1.92     | 0.06        |
| 4  | 0.17863   | 46.05  | 64.55       | -18.50 | 37.20  | 54.55       | -17.35 | 1.30        | 10.01   | 1.91     | 0.05        |
| 5  | 0.21953   | 40.85  | 62.84       | -21.99 | 31.64  | 52.84       | -21.20 | 0.99        | 10.01   | 1.64     | 0.08        |
| 6  | 0.221575  | 40.66  | 62.76       | ---    | 31.41  | 52.76       | -21.35 | 0.98        | 10.01   | 1.63     | 0.08        |
| 7  | 0.3954    | 37.06  | 57.95       | -20.89 | 29.22  | 47.95       | -18.73 | 0.53        | 10.14   | 1.01     | 0.10        |
| 8  | 0.397445  | 37.42  | 57.91       | -20.49 | 30.64  | 47.91       | -17.27 | 0.53        | 10.14   | 1.01     | 0.10        |
| 9  | 0.39949   | 37.27  | 57.86       | -20.59 | 30.10  | 47.86       | -17.76 | 0.53        | 10.14   | 1.00     | 0.10        |
| 10 | 0.401535  | 36.61  | 57.82       | -21.21 | 27.85  | 47.82       | -19.97 | 0.53        | 10.14   | 1.00     | 0.10        |
| 11 | 0.57536   | 31.17  | 56.00       | ---    | 25.30  | 46.00       | -20.70 | 0.42        | 10.19   | 0.73     | 0.14        |
| 12 | 0.577405  | 31.20  | 56.00       | ---    | 24.85  | 46.00       | -21.15 | 0.41        | 10.19   | 0.73     | 0.14        |
| 13 | 0.708285  | 30.18  | 56.00       | ---    | 24.03  | 46.00       | -21.97 | 0.37        | 10.19   | 0.62     | 0.15        |
| 14 | 0.71033   | 30.32  | 56.00       | ---    | 24.06  | 46.00       | -21.94 | 0.37        | 10.19   | 0.61     | 0.15        |



|                |                       |
|----------------|-----------------------|
| Company:       | Whirlpool Corporation |
| Model Tested:  | WICHTO01              |
| Report Number: | 22691                 |
| DLS Project:   | 8732                  |

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## 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.

| Parameter                         | Expanded Uncertainty (K=2) |
|-----------------------------------|----------------------------|
| Occupied Channel Bandwidth        | +/-1.14%                   |
| RF Output Power, Conducted        | +/-0.89dB                  |
| Power Spectral Density, Conducted | +/-1.26dB                  |
| Unwanted Emissions, Conducted     | +/-2.62dB                  |
| All Emissions, Radiated           | +/-3.43dB                  |
| DC and Low Frequency Voltages     | +/-2.42%                   |
| Time                              | +/-0.01%                   |
| Duty Cycle                        | +/-0.05%                   |

| AC Line Conducted             |                          | Uncertainty ( + / - dB ) |
|-------------------------------|--------------------------|--------------------------|
| Contribution                  | Probability Distribution |                          |
|                               |                          | 150 kHz - 30 MHz         |
| Combined Standard Uncertainty | Normal                   | 1.05                     |
| <b>Expanded Uncertainty</b>   | <b>Normal (k=2)</b>      | <b>2.10</b>              |



|                |                       |
|----------------|-----------------------|
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# END OF REPORT

| Revision # | Date           | Comments        | By |
|------------|----------------|-----------------|----|
| 1.0        | April 17, 2017 | Initial Release | CB |
|            |                |                 |    |
|            |                |                 |    |
|            |                |                 |    |
|            |                |                 |    |