

COMPLIANCE WORLDWIDE INC. TEST REPORT 248-14

In Accordance with the Requirements of
Federal Communications Commission CFR Title 47 Part 15.249, Subpart C
Industry Canada RSS 210, Issue 8

Low Power License-Exempt Radio Communication Devices
Intentional Radiators

Issued to

Mooshim Engineering Inc.
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Somerville, MA 02144
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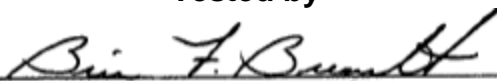
for the

**Mooshimeter
Wireless Multimeter**

**FCC ID: 2ACIW-DMMBLE1
IC: 12061A-DMMBLE1**

Report Issued on June 6, 2014

Tested by


Brian F. Breault

Reviewed by


Larry K. Stillings

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1. Scope

This test report certifies that the Mooshim Engineering Mooshimeter Wireless Multimeter, as tested, meets the FCC Part 15, Subpart C and Industry Canada RSS 310, Issue 3 requirements. The scope of this test report is limited to the test sample provided by the client, only in as much as that sample represents other production units. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required.

2. Product Details

- 2.1. Manufacturer:** Mooshim Engineering, Inc.
- 2.2. Model Number:** Mooshimeter
- 2.3. Serial Number:** None
- 2.4. Description:** Wireless Multimeter
- 2.5. Power Source:** 3 VDC (2 AA Alkaline Batteries)
- 2.6. Hardware Revs.:** G (03/2014)
- 2.7. Software Rev.:** None
- 2.8. EMC Modifications:** None

3. Product Configuration

3.1. EUT Hardware

Qty	Manufacturer	Model	Serial Number	Input Volts	Frq (Hz)	Description/Function
1	Mooshim Engineering, Inc.	Mooshimeter	N/A	3.0	DC	Handheld Multimeter

3.2. Support Equipment

Device	Manufacturer	Model	Serial No.	Comment
None				

3.3. Cables

Cable Type	Length	Shield	From	To
1 Pair of Test Leads	1 Meter	No	DUT	Unterminated

3.4. Operational Characteristics & Software

Two nearly identical units were supplied for test:

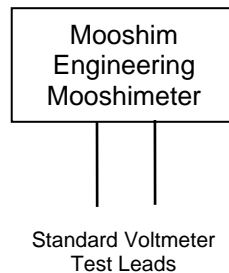
Unit configured for transmitter measurements – A pushbutton has been placed between the batteries on the battery side of the DUT and the firmware has been modified to allow a nonstop transmission on a single channel. Successive presses of this pushbutton will set the transmitter to transmit on channels 1, 39 or 79 in either a modulated or unmodulated mode. The device must be monitored with a spectrum analyzer to ensure that the right channel and modulation has been selected.

3. Product Configuration (continued)

3.4. Operational Characteristics & Software (continued)

Unit configured for normal operation – An iPod with a custom application was supplied to receive the Mooshimeter's measurement data transmissions.

3.5. Block Diagram



4. Measurements Parameters

4.1. Measurement Equipment Used to Perform Test

Device	Manufacturer	Model No.	Serial No.	Cal Due	Cal Cycle
Spectrum Analyzer 20 Hz to 40 GHz	Rohde & Schwarz	FSV40	100899	6/6/2015	biannual
EMI Receiver 9 kHz to 6.5 GHz	Hewlett Packard	8546A	3650A00360	6/13/2014	biannual
EMI Receiver 9 kHz to 7 GHz	Rohde & Schwarz	ESR7	101156	4/4/2015	biannual
Microwave Preamp 2 to 50 GHz	Hewlett Packard	8449B	3008A01323	6/5/2015	biannual
Loop Antenna 9 kHz to 30 MHz	EMCO	6512	9309-1139	8/28/2014	biannual
Bilog Antenna 30 to 2000 MHz	Sunol Sciences	JB1	A050913	5/15/2014	annual
Horn Antenna 1 to 18 GHz	ETS-Lindgren	3117	00143292	1/14/2015	biannual
Horn Antenna 18 to 40 GHz	Com-Power	AH-840	03075	8/27/2014	biannual
2.4 GHz Band Reject Filter	Micro-Tronics	BRM50702	050	2/4/2015	annual

4.2. Measurement & Equipment Setup

Test Dates:	4/29/2014 – 5/8/2014
Test Engineers:	Brian Breault, Cody Merry
Normal Site Temperature (15 - 35°C):	21.2
Relative Humidity (20 -75%RH):	35
Frequency Range:	32 kHz to 24.8 GHz
Measurement Distance:	3 Meters
EMI Receiver IF Bandwidth:	120 kHz - 30 MHz to 1 GHz
	1 MHz - Above 1 GHz
EMI Receiver Average Bandwidth:	300 kHz - 30 MHz to 1 GHz
	3 MHz - Above 1 GHz
Detector Function:	Peak, Quasi-Peak & Average

4. Measurements Parameters

4.3. Measurement Procedure

Test measurements were made in accordance FCC Part 15.249, IC RSS-210 Annex II: Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz.

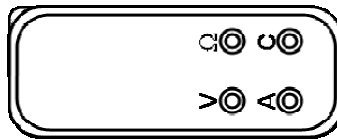
The test methods used to generate the data in this test report are in accordance with ANSI C63.10: 2009, American National Standard for Testing Unlicensed Wireless Devices.

4.4. Choice of Operating Frequencies

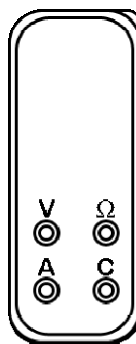
In accordance with 47CFR Part15, Section 15.31(m); Bluetooth frequency channels 1 (lowest), 19 (middle) and 39 (highest) were selected for test.

4.5. EUT Positions for Emissions Measurements

In accordance with ANSI C63.10-2009, Section 5.10.1; a portable or small unlicensed wireless device shall be placed on a non-metallic test fixture or other non-metallic support during testing. The supporting fixture shall permit orientation of the EUT in each of three orthogonal positions such that emissions from the EUT are maximized.



X-Axis (Left side down, front faces antenna at 0° azimuth)



Y-Axis (Top up, front faces antenna at 0° azimuth)



Z-Axis (Front up, bottom edge faces antenna at 0° azimuth)

5. Measurement Summary

Test Requirement	FCC Requirement	IC Requirement	Test Section	Result	Comment
Antenna Requirement	15.203	RSS-GEN 7.1.2	6.1	Compliant	Unit has an internal PCB antenna.
Radiated Field Strength of Fundamental	15.249 (a),(c)	RSS-210 A2.9	6.2	Compliant	
Radiated Field Strength of Harmonics	15.249 (a),(c)	RSS-210 A2.9	6.3	Compliant	
Fixed, Point-to-Point Operation	15.249 (b)	N/A	---	Not Required	
Band Edge Measurements	15.249 (d) 15.209	RSS GEN 4.9	6.4	Compliant	
Spurious Radiated Emissions	15.249 (d), 15.209	RSS-210 A2.9(b)	6.5	Compliant	
Occupied Bandwidth 26 dB	ANSI C63.4 § 13.1.7	N/A	6.6	Compliant	
99% Bandwidth	N/A	RSS-GEN 4.6.1	6.7	Compliant	
AC Power Line Conducted Emissions	15.207	RSS-GEN 7.2.4	---	Not Required	DUT runs on 2 AA Alkaline batteries.
RF Safety	95.1125 2.1093 1.1307 (b)(1))	N/A	6.8	Not Required	

6. Measurement Data

6.1. Antenna Requirement (Section 15.203, RSS-GEN)

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section.

Result: The unit under test employs permanent, non-user accessible printed circuit antenna.

6.2. Radiated Field Strength of Fundamental (15.249, Section (a), (c)), IC RSS-210 A2.9

Requirement: The 3 meter field strength of the fundamental emissions from intentional radiators operating within the 2400 – 2483.5 MHz frequency band shall comply with the following requirement: 50 millivolts/meter (94 dB μ V/m) quasi-peak mode measurement and 500 millivolts/meter (114 dB μ V/m) peak mode measurement.

Frequency (MHz)	Amplitude ¹ (dB μ V/m) at 3 Meters		Limit (dB μ V/m) at 3 Meters		Margin (dB μ V/m) at 3 Meters		Ant Polarity	Ant Height	Turntable Azimuth	Result
	Peak	Average ²	Peak	Average	Peak	Average	H/V	cm	Deg	
2402	93.91	92.30	114.00	94.00	-20.09	-1.70	H	262	252	Compliant
2440	93.55	92.10	114.00	94.00	-20.45	-1.89	V	207	113	Compliant
2480	93.10	90.98	114.00	94.00	-20.90	-3.02	H	241	41	Compliant

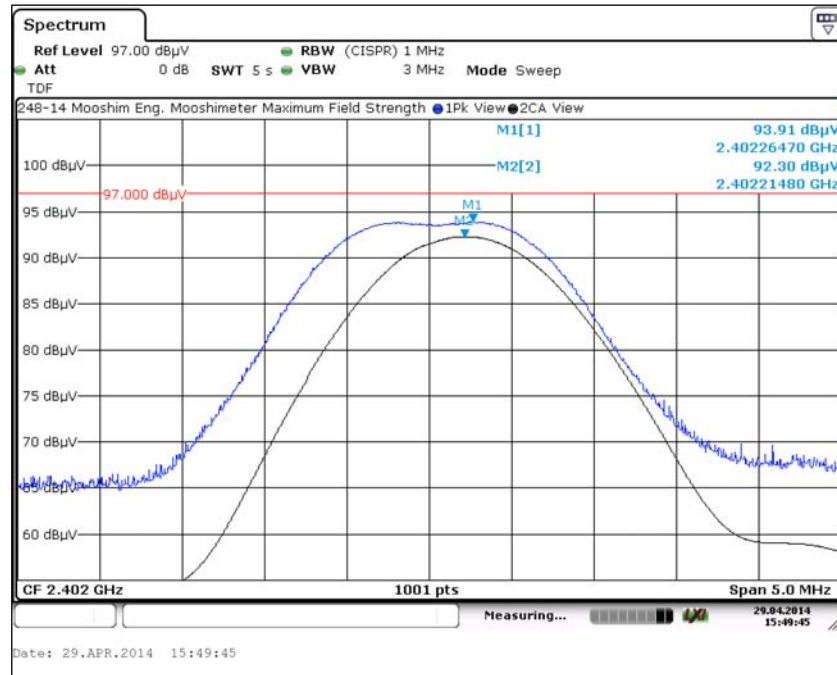
¹ All correction factors are included in measurement values.

² The average values in the above table represent the absolute worst case modulation characteristics. The field strength in actual use will most likely be lower.

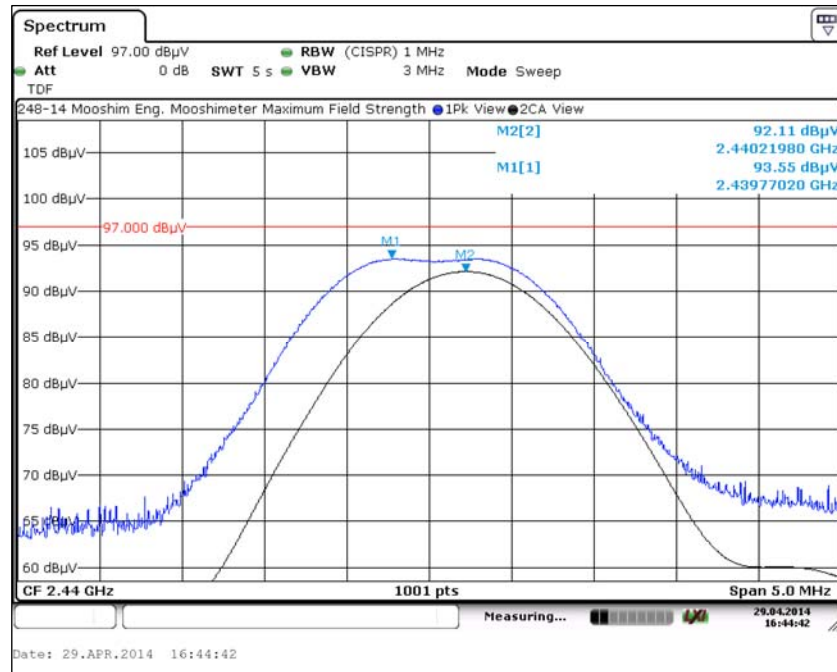
6. Measurement Data (continued)

6.2. Radiated Field Strength of Fundamental (15.249, Section (a), (c)), IC RSS-210 A2.9

6.2.1. Radiated Field Strength of Fundamental – Channel 1



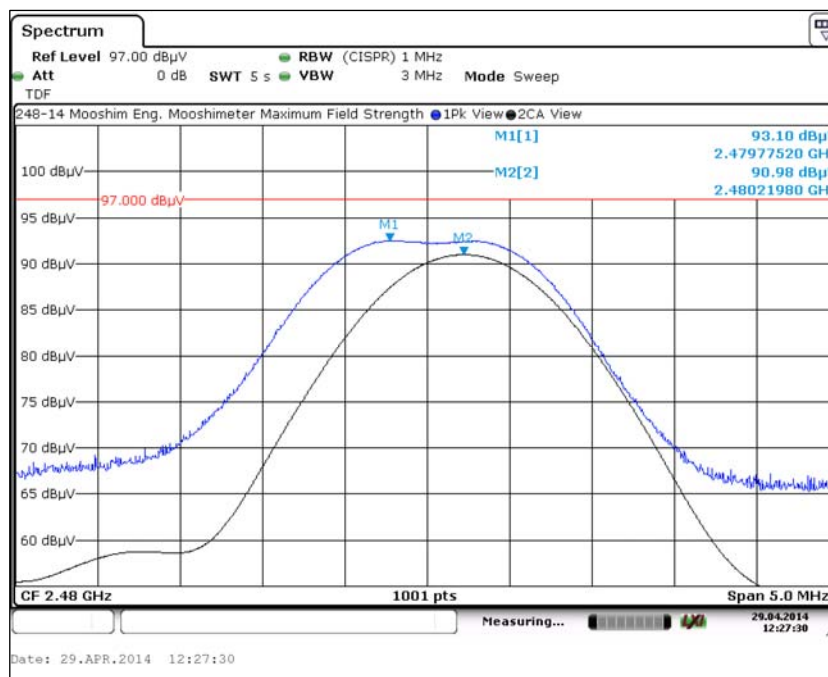
6.2.2. Radiated Field Strength of Fundamental – Channel 19



6. Measurement Data (continued)

6.2. Radiated Field Strength of Fundamental (15.249, Section (a), (c)), IC RSS-210 A2.9

6.2.3. Radiated Field Strength of Fundamental – Channel 39



6. Measurement Data (continued)

6.3. Radiated Field Strength of Harmonics (15.249, Section (a)), IC RSS-210 A2.9

Requirement: The 3 meter field strength of the harmonic emissions from intentional radiators operated within the 2400 to 2483.5 MHz frequency bands shall comply with the following: 500 microvolts/meter (54 dB μ V/m), average mode measurement. Peak field strength may not be greater than 20 dB above the average limit (74 dB μ V/m).

Test Results : Compliant

Notes: All correction factors are included in the field strength values.

The tabled values represent the worst case antenna polarity and orthogonal position of the DUT.

Freq. (MHz)	Field Strength (dB μ V/m)		Limit (dB μ V/m)		Margin (dB μ V/m)		Antenna Polarity (H/V)	Result
	Peak	Average	Peak	Average	Peak	Average		
4804	51.18	42.04	74.00	54.00	-22.82	-11.96	H	Compliant
4880	50.55	48.17	74.00	54.00	-23.45	-5.83	V	Compliant
4960	52.05	47.90	74.00	54.00	-21.95	-6.10	H	Compliant
7206	54.60	43.36	74.00	54.00	-19.40	-10.64	H	Compliant
7320	52.71	40.62	74.00	54.00	-21.29	-13.38	V	Compliant
7440	52.66	43.16	74.00	54.00	-21.34	-10.84	H	Compliant
9608	55.26	40.73	74.00	54.00	-18.74	-13.27	V	Compliant
9760	52.71	40.62	74.00	54.00	-21.29	-13.38	V	Compliant
9920	53.67	40.14	74.00	54.00	-20.33	-13.86	H	Compliant
12010	56.92	43.66	74.00	54.00	-17.08	-10.34	V	Compliant
12200	56.96	44.54	74.00	54.00	-17.04	-9.46	H	Compliant
12400	56.43	43.67	74.00	54.00	-17.57	-10.33	V	Compliant
14412	58.80	48.07	74.00	54.00	-15.20	-5.93	V	Compliant
14640	59.13	45.92	74.00	54.00	-14.87	-8.08	V	Compliant
14880	58.13	45.08	74.00	54.00	-15.87	-8.92	V	Compliant
16814	61.87	48.35	74.00	54.00	-12.13	-5.65	V	Compliant
17080	61.04	47.79	74.00	54.00	-12.96	-6.21	V	Compliant
17360	60.47	47.41	74.00	54.00	-13.53	-6.59	V	Compliant
19216	57.61	43.65	74.00	54.00	-16.39	-10.35	H	Compliant
19520	56.63	43.05	74.00	54.00	-17.37	-10.95	H	Compliant
19840	56.96	43.32	74.00	54.00	-17.04	-10.68	V	Compliant
21618	57.32	43.61	74.00	54.00	-16.68	-10.39	H	Compliant
21960	58.41	45.00	74.00	54.00	-15.59	-9.00	V	Compliant
22320	60.32	46.48	74.00	54.00	-13.68	-7.52	V	Compliant
24020	60.38	47.45	74.00	54.00	-13.62	-6.55	V	Compliant
24400	59.94	46.50	74.00	54.00	-14.06	-7.50	H	Compliant
24800	60.68	47.12	74.00	54.00	-13.32	-6.88	V	Compliant

6. Measurement Data (continued)

6.4. Band Edge Measurements

Requirement: Emissions radiated outside of the specified frequency band of 2400 to 2483.5 MHz, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

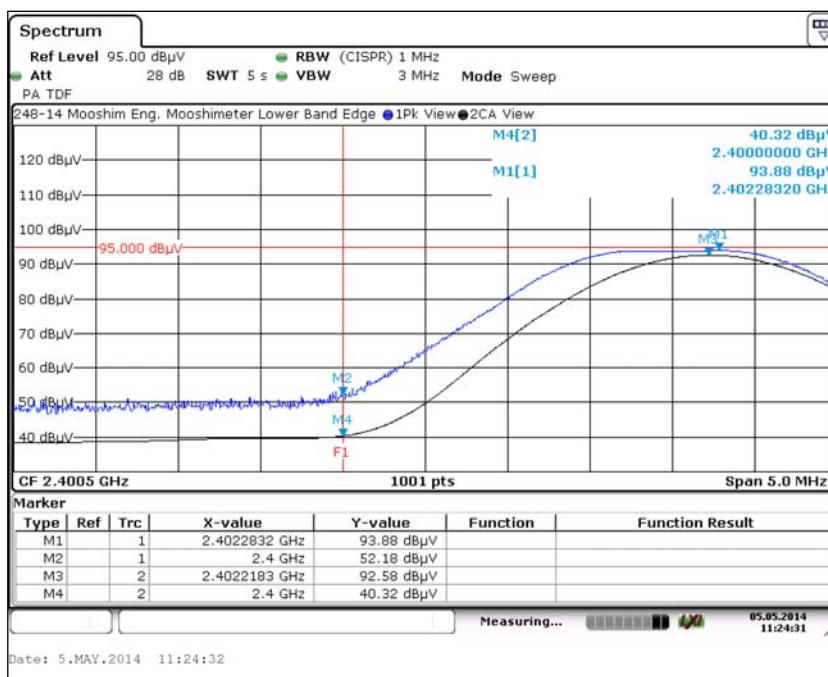
Test Results : The device under test peak field strength meets the FCC Part 15, Section 15.209 average (-54 dBμV/m) requirement.

Band Edge Measurements - Lower and Upper Band Edge

Frequency (MHz)		Band Edge (dBμV/m)			Limit (dBμV/m)		Margin (dBμV/m)		Result
		Freq MHz	Peak ¹	Average	Peak	Average	Peak ¹	Average	
2402	Lower	2400	52.18	40.32	74	54	-21.82	-13.68	Compliant
2480	Upper	2483.5	47.49	---	74	54	-26.51	---	Compliant

¹ The upper band edge peak measurement meets the average limit by greater than 6 dB.

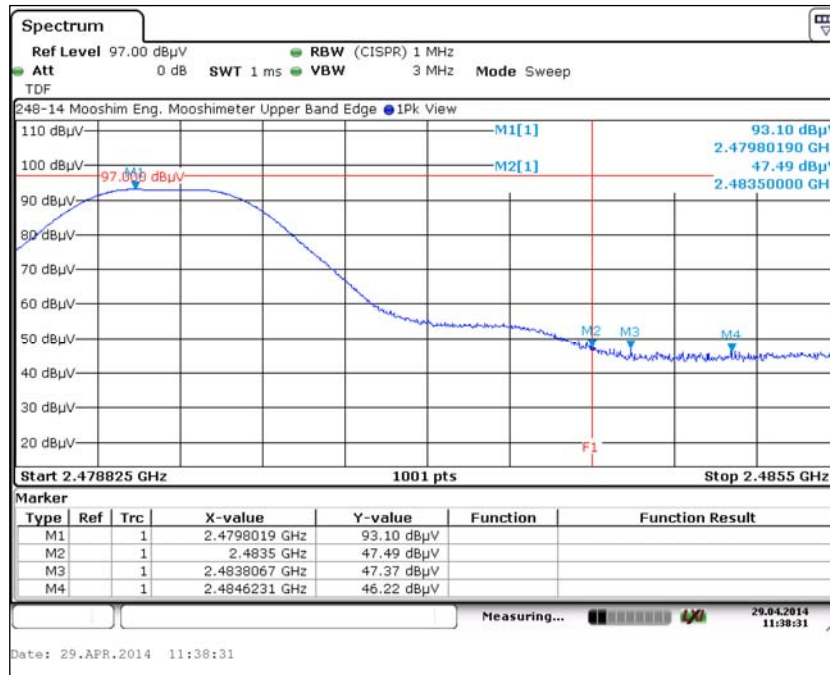
6.4.1. Band Edge Measurements - Lower Band Edge



6. Measurement Data (continued)

6.4. Band Edge Measurements (continued)

6.4.2. Band Edge Measurements - Upper Band Edge



6. Measurement Data (continued)

6.5. Spurious Radiated Emissions, 32 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN

Requirement: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Test Notes: Details of the spurious emissions measurements are located in Appendix A beginning on page 25.

The lowest frequency generated by the DUT is 32.768 kHz.

6.5.1. Regulatory Limit: FCC Part 209, Quasi-Peak & Average

Frequency Range (MHz)	Distance (Meters)	Limit (dBμV/m)
0.009 to 0.490	3	128.5 to 93.8
0.490 to 1.705	3	73.8 to 63
1.705 to 30	3	69.5
30 to 88	3	40.0
88 to 216	3	43.5
216 to 960	3	46.0
Above 960	3	54.0

6.5.2. Measurement Summary

Notes: Each of the tabled entries represent the worst case receive antenna polarity and DUT orthogonal position for the given frequency range.

All measurements were made with a peak detector.

Frequency Range (MHz)	Worst Case Emission Frequency (MHz)	Peak Amplitude (dBμV/m)	QP/Average Limit (dBμV/m)	Margin (dB)	Antenna Polarity (Orientation)
0.010 to 0.150	.012	118.01	128.28	-10.30	Perpendicular
0.150 to 30.000	.152	81.55	118.21	-33.66	Perpendicular
30 to 1000	996.500	39.29	54.00	-14.71	Vertical
1000 to 6000	5913.800	51.68	54.00	-2.32	Vertical
6000 to 12000	11950.500	53.52	54.00	-0.48	Vertical
12000 to 18000	16424.300	51.13	54.00	-2.87	Vertical
18000 to 26500	26209.000	53.21	54.00	-0.79	Horizontal

6. Measurement Data (continued)

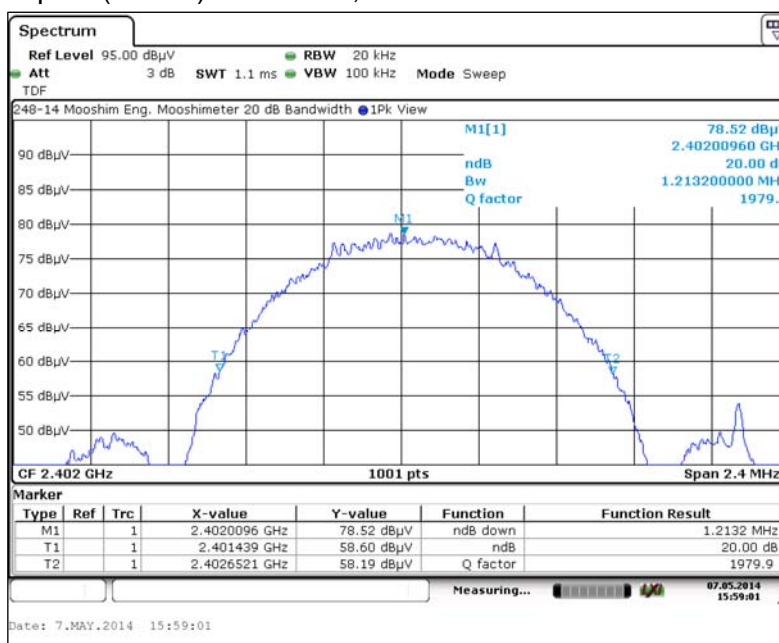
6.6 Occupied Bandwidth (ANSI C63.10, Section 6.9.1 & IC RSS-GEN)

Requirement: The occupied bandwidth measurements on an intentional radiator shall be made in accordance with the requirements outlined in ANSI C63.10-2009, Section 6.9.1. If no bandwidth requirement is specified by the procuring or regulatory agency, the bandwidth will be measured at -20 dB with respect to the reference level.

Test Notes: The span range for the SA display shall be between two times and five times the OBW. The nominal IF filter bandwidth (3 dB RBW) should be approximately 1% to 5% of the OBW, unless otherwise specified, depending on the applicable requirement. The dynamic range of the SA at the selected RBW shall be more than 10 dB below the target "dB down" (attenuation) requirement, i.e., if the requirement calls for measuring the -20 dB OBW, the SA noise floor at the selected RBW shall be at least 30 dB below the largest measured value on the display.

Frequency (MHz)	-20 dB Bandwidth (MHz)
2402	1.213
2440	1.187
2480	1.196

6.6.1. Occupied (-20 dB) Bandwidth, Channel 0



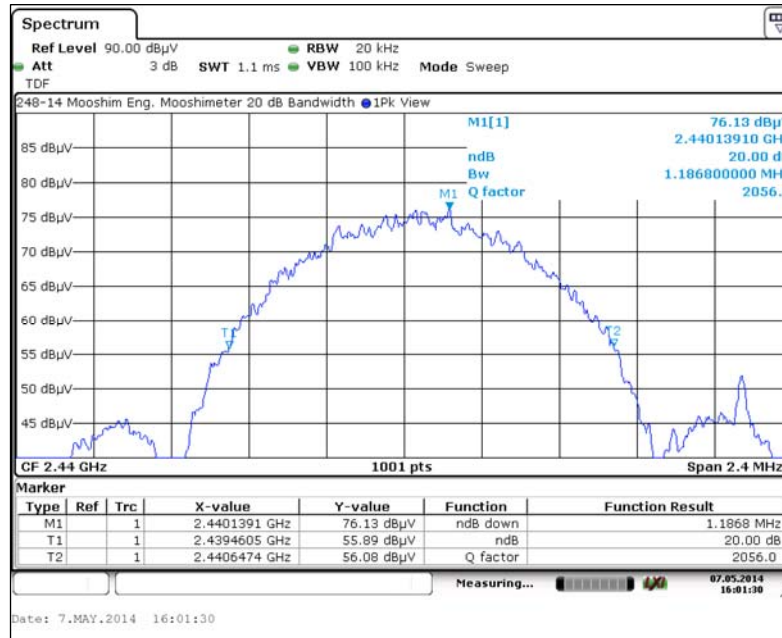
Test Number: 248-14

Issue Date: 6/6/2014

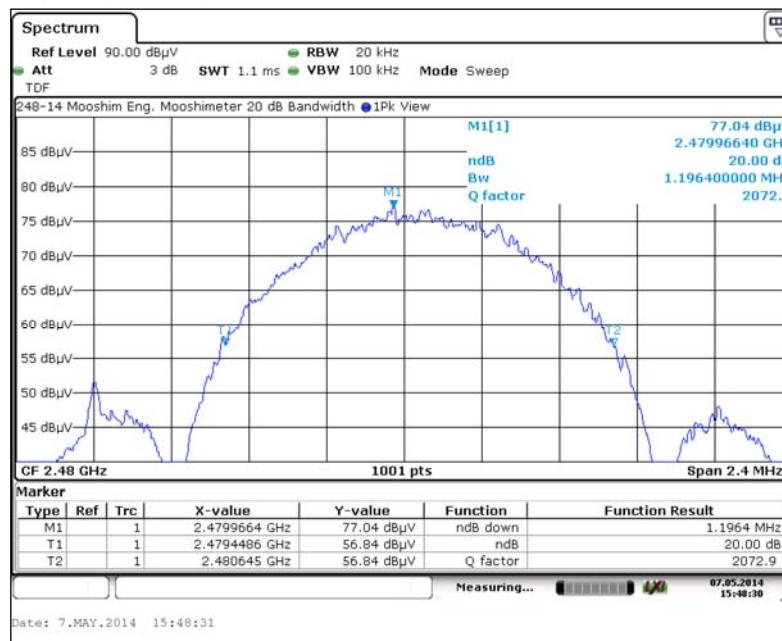
6. Measurement Data (continued)

6.6 Occupied Bandwidth (ANSI C63.4, Section 13.1.7 & IC RSS-GEN) (continued)

6.6.2. Occupied (-20 dB) Bandwidth, Channel 19



6.6.3. Occupied (-20 dB) Bandwidth, Channel 39



6. Measurement Data (continued)

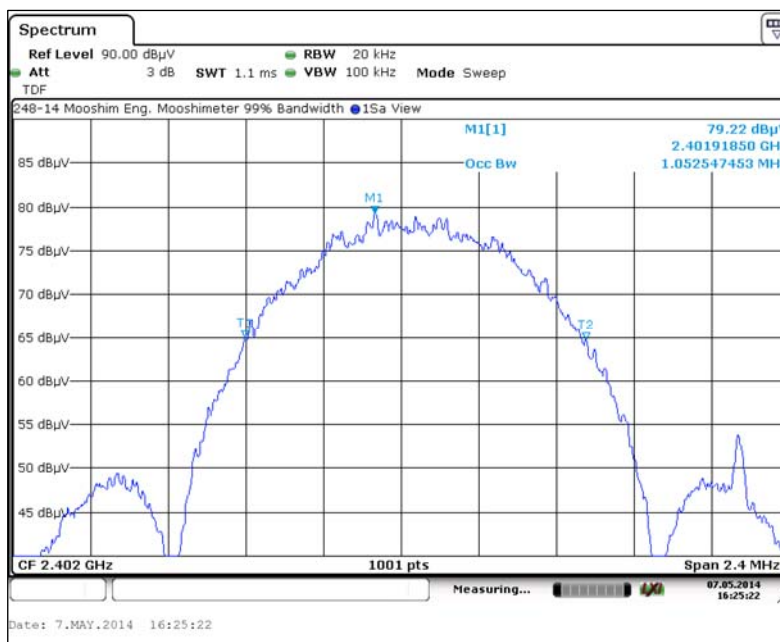
6.7. 99% Emission Bandwidth (IC RSS-GEN Section 4.6.1)

Requirement: When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured.

Test Notes: The transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used given that a peak or peak hold may produce a wider bandwidth than actual.

Frequency (MHz)	Emission Bandwidth (MHz)
2402	1.053
2440	1.077
2480	1.060

6.7.1. 99% Emission Bandwidth, Channel 0



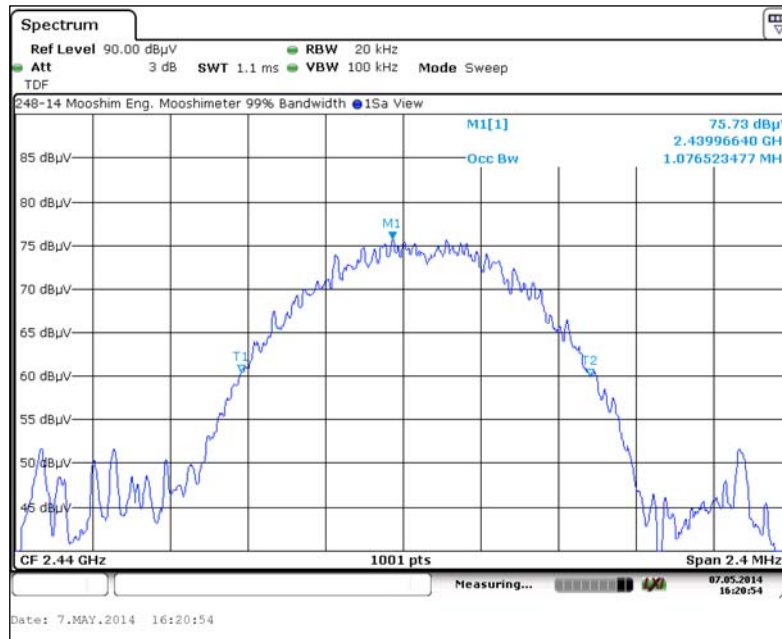
Test Number: 248-14

Issue Date: 6/6/2014

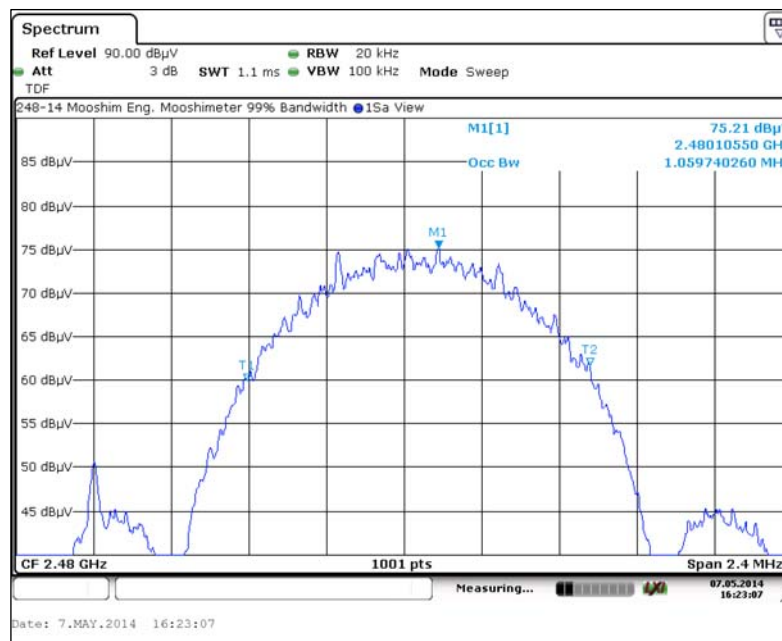
6. Measurement Data (continued)

6.7. 99% Emission Bandwidth (IC RSS-GEN Section 4.6.1) (continued)

6.7.2. 99% Emission Bandwidth, Channel 19

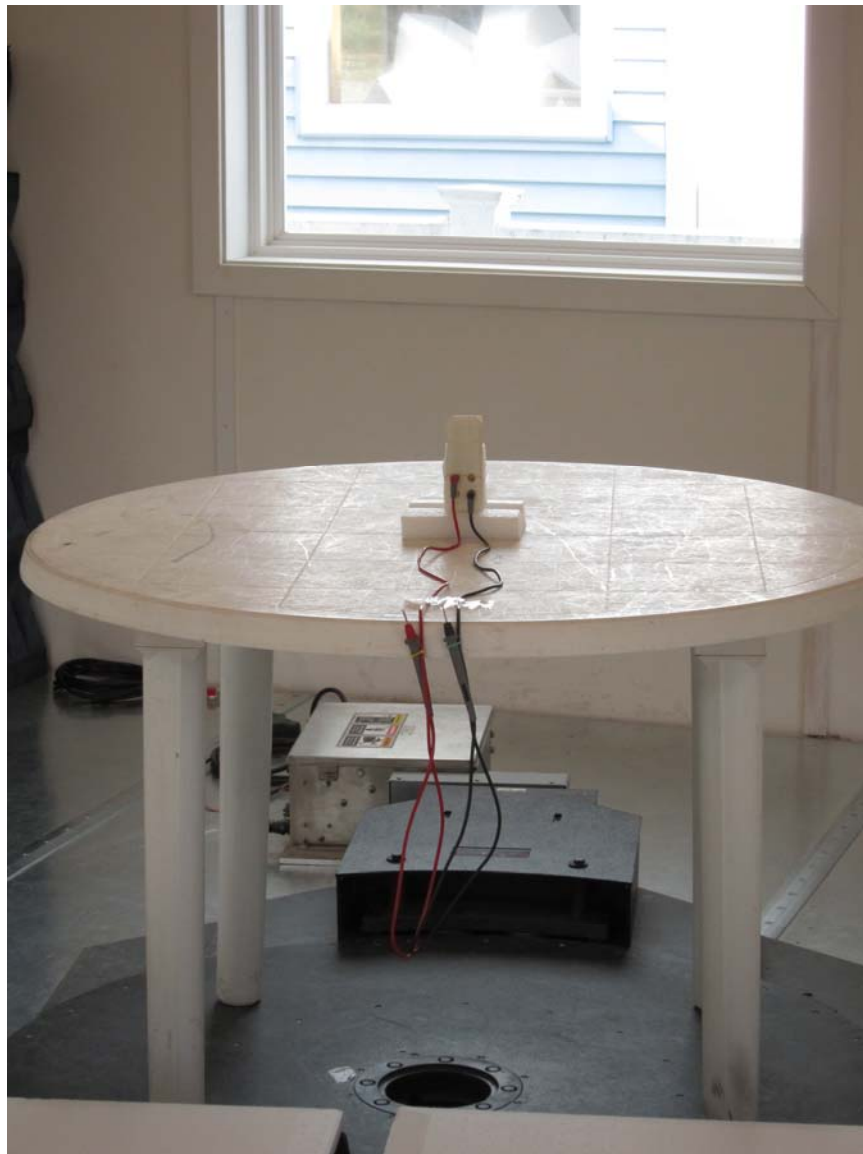


6.7.3. 99% Emission Bandwidth, Channel 39



7. Test Setup Photographs

7.1 Radiated Field Strength, Harmonics and Spurious Emissions >1 GHz, Front View



7. Test Setup Photographs

7.2. Radiated Field Strength, Harmonics and Spurious Emissions >1 GHz, Rear View (1 GHz to 18 GHz)



7. Test Setup Photographs

7.3. Radiated Field Strength, Harmonics and Spurious Emissions >1 GHz, Rear View (above 18 GHz)



7. Test Setup Photographs

7.4. Spurious Emissions <1 GHz, Front View



7. Test Setup Photographs

7.5. Spurious Emissions, Rear View (10 kHz to 30 MHz)



7. Test Setup Photographs

7.6. Spurious Emissions, Rear View (30 MHz to 1 GHz)



8. Test Site Description

Compliance Worldwide is located at 357 Main Street in Sandown, New Hampshire. The test sites at Compliance Worldwide are used for conducted and radiated emissions testing in accordance with Federal Communications Commission (FCC), Industry Canada, and Voluntary Control Council Interference (VCCI) standards. A description of the test sites is on file with the FCC (registration number 96392), Industry Canada (file number IC 3023A-1), and VCCI (Member number 3168), Registration numbers C-3673, G-167, R-3305 & T-1809.

The radiated emissions test site is a 3 and 10 meter enclosed open area test site (OATS). Personnel, support equipment and test equipment are located in the basement beneath the OATS ground plane.

The conducted emissions site is part of a 16' x 20' x 12' ferrite tile chamber and uses one of the walls for the vertical ground plane required by EN 55022.

Both sites are designed to test products or systems 1.5 meters W x 1.5 meters L x 2.0 meters H, floor standing or table top.

Appendix A**Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN**

Note regarding the following plots in Appendix A:

Due to the way the correction factor units of measure are handled in our Rohde & Schwarz receiver, certain emissions plots may be incorrectly labeled "dB μ V" instead of correctly labeled "dB μ V/m."

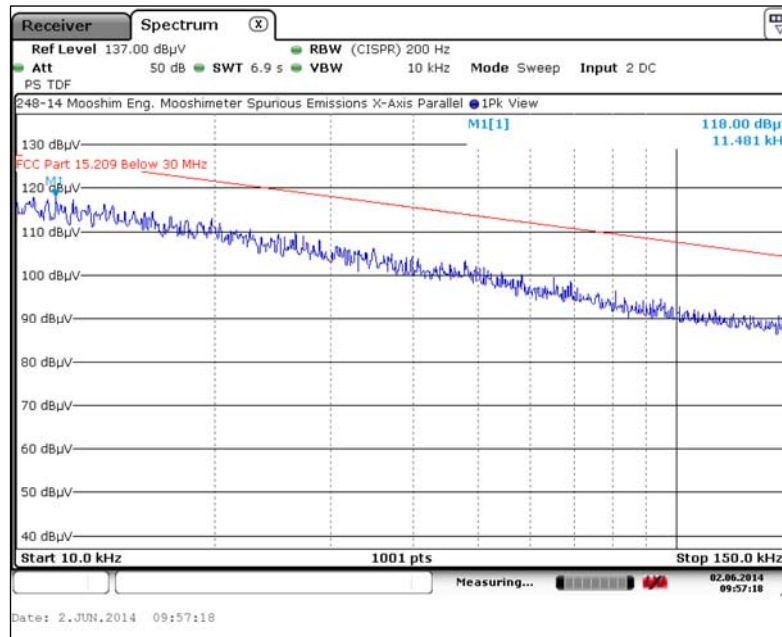
The data contained in each of the plots in this section is fully corrected. All antennas, cables, preamps, etc. are included in each of the measurements.

Appendix A

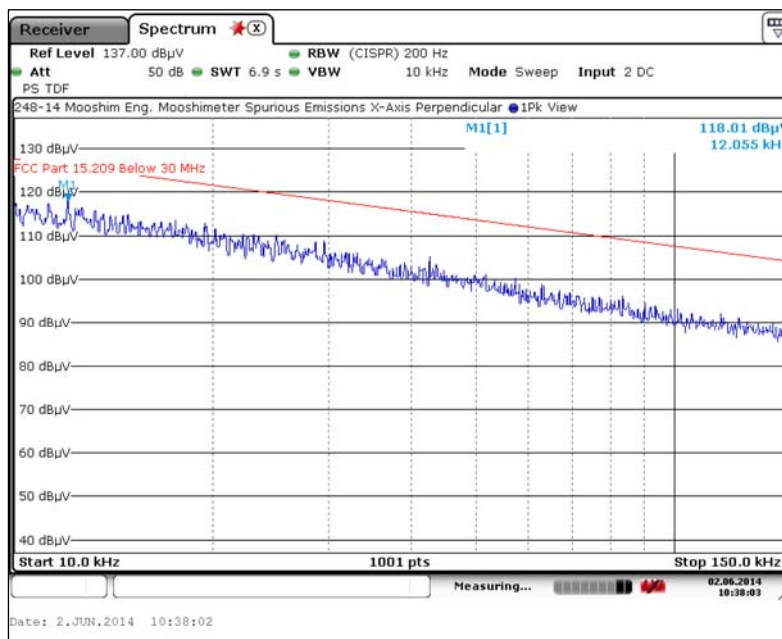
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.1. Spurious Radiated Emissions (10 kHz to 150 kHz) Measurement Results

A.1.1. Measurement Results – DUT Position: X-Axis, Parallel Antenna



A.1.2. Measurement Results – DUT Position: X-Axis, Perpendicular Antenna

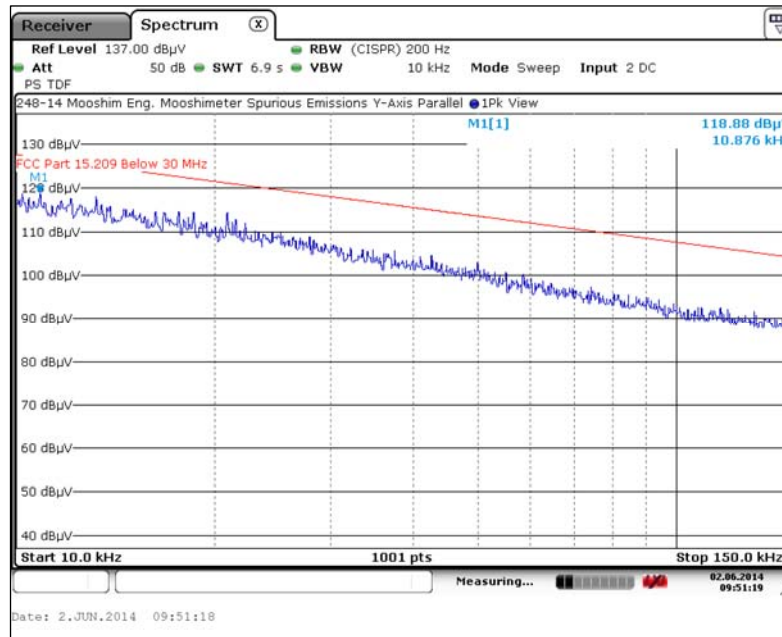


Appendix A (continued)

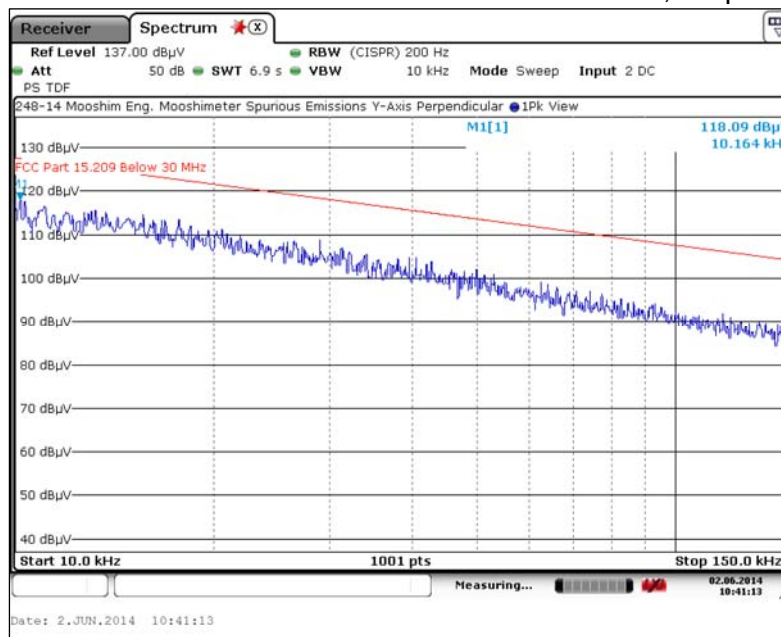
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN (continued)

A.1. Spurious Radiated Emissions (10 kHz to 150 kHz) Measurement Results

A.1.3. Measurement Results – DUT Position: Y–Axis, Parallel Antenna



A.1.4. Measurement Results – DUT Position: Y– Axis, Perpendicular Antenna

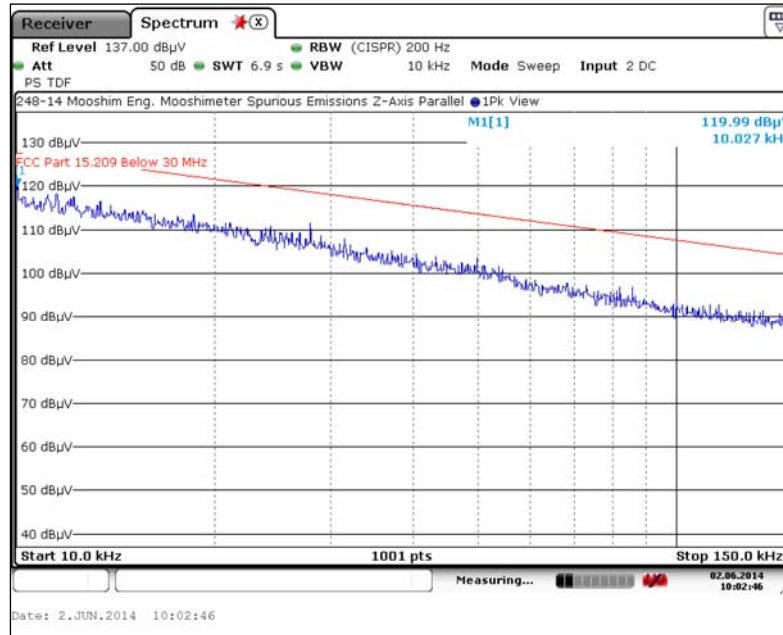


Appendix A (continued)

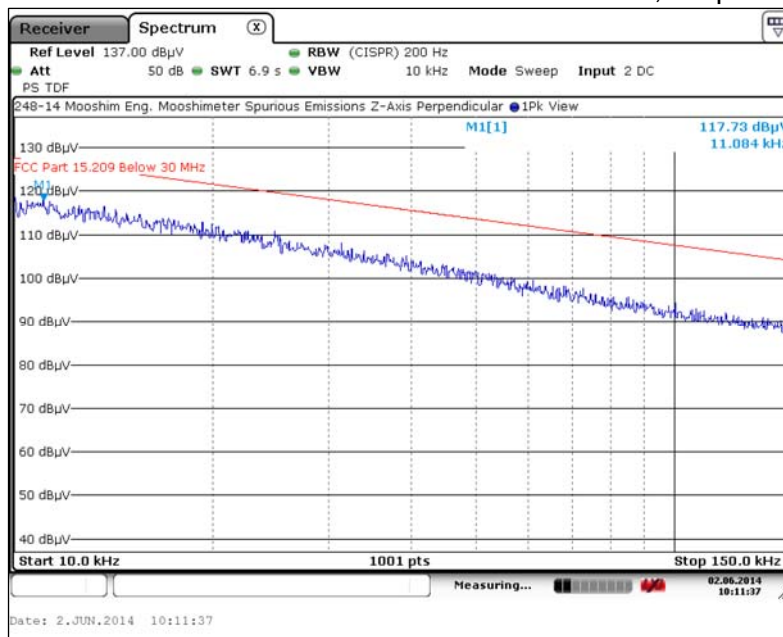
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.1. Spurious Radiated Emissions (10 kHz to 150 kHz) Measurement Results

A.1.5. Measurement Results – DUT Position: Z-Axis, Parallel Antenna



A.1.6. Measurement Results – DUT Position: Z-Axis, Perpendicular Antenna

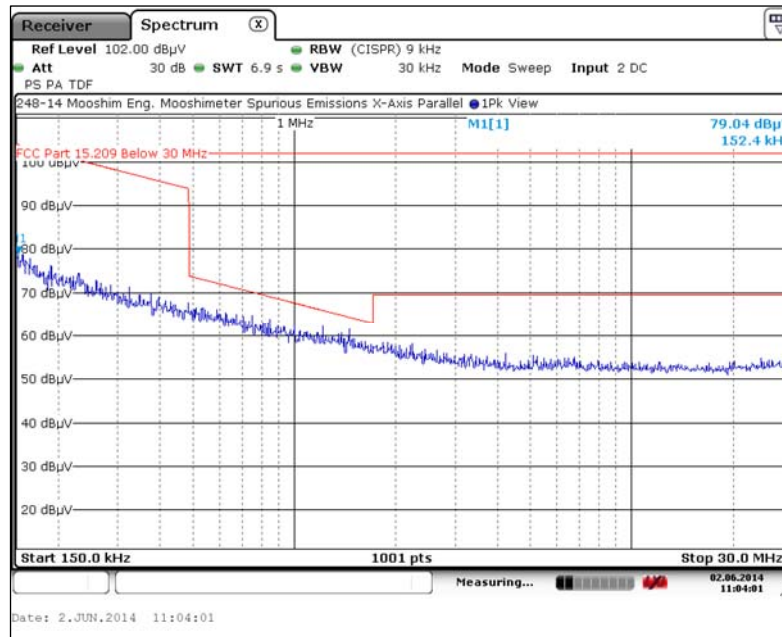


Appendix A (continued)

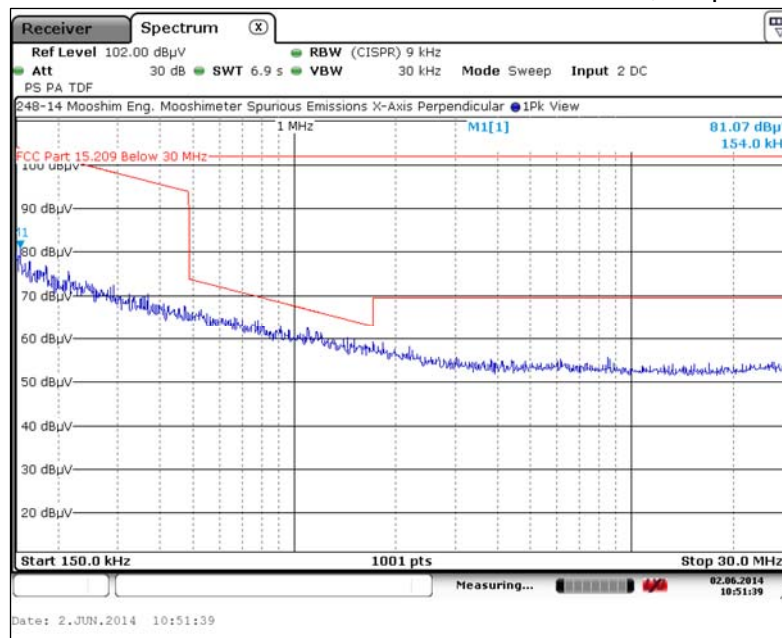
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)),
IC RSS-GEN (continued)

A.2. Spurious Radiated Emissions (150 kHz to 30 MHz) Measurement Results

A.2.1. Measurement Results – DUT Position: X-Axis, Parallel Antenna



A.2.2. Measurement Results – DUT Position: X-Axis, Perpendicular Antenna

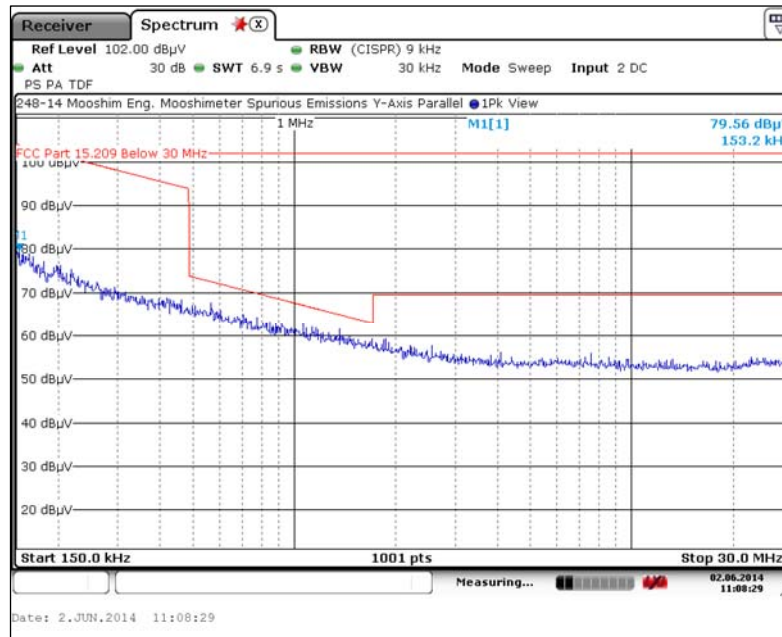


6. Measurement Data (continued)

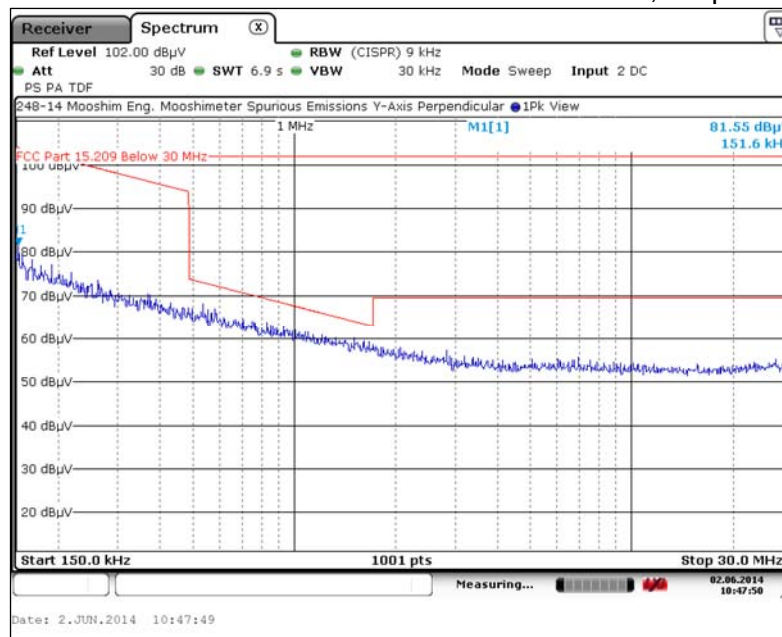
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.2. Spurious Radiated Emissions (150 kHz to 30 MHz) Measurement Results

A.2.3. Measurement Results – DUT Position: Y-Axis, Parallel Antenna



A.2.4. Measurement Results – DUT Position: Y-Axis, Perpendicular Antenna

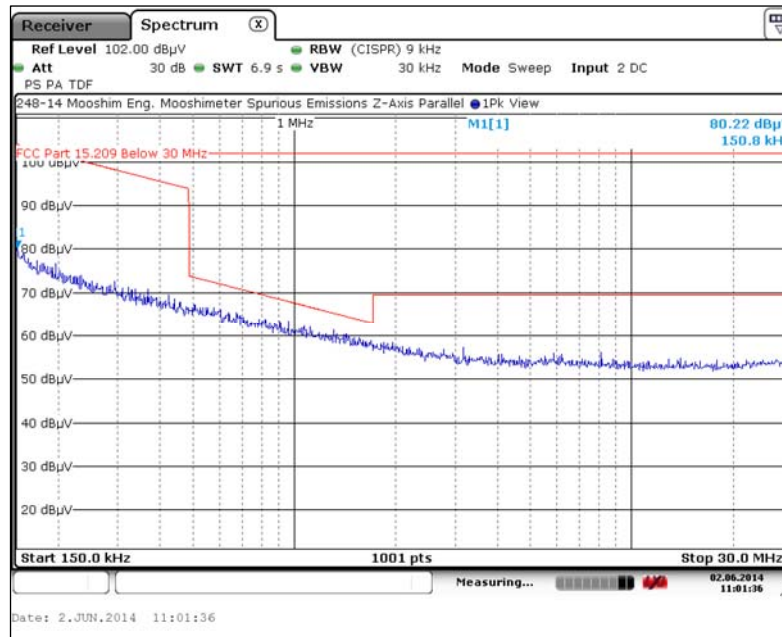


6. Measurement Data (continued)

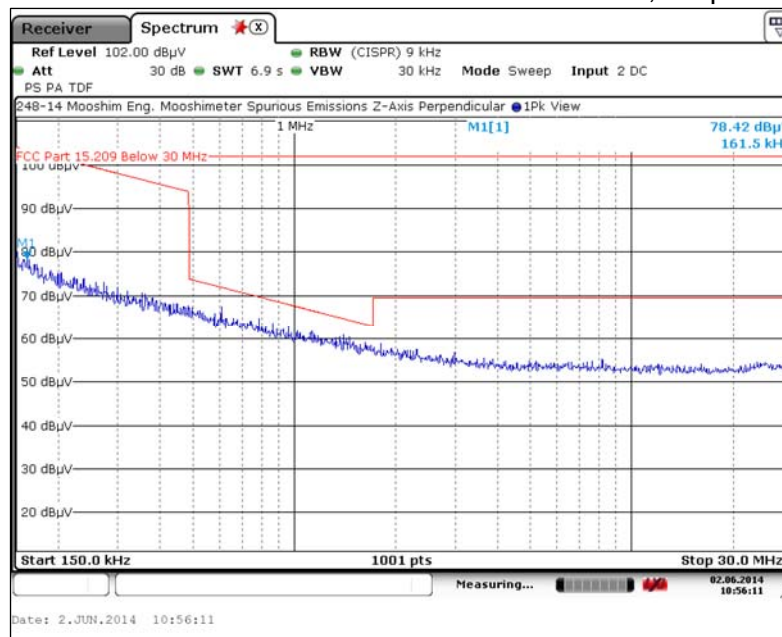
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.2. Spurious Radiated Emissions (150 kHz to 30 MHz) Measurement Results

A.2.5. Measurement Results – DUT Position: Z-Axis, Parallel Antenna



A.2.6. Measurement Results – DUT Position: Z-Axis, Perpendicular Antenna

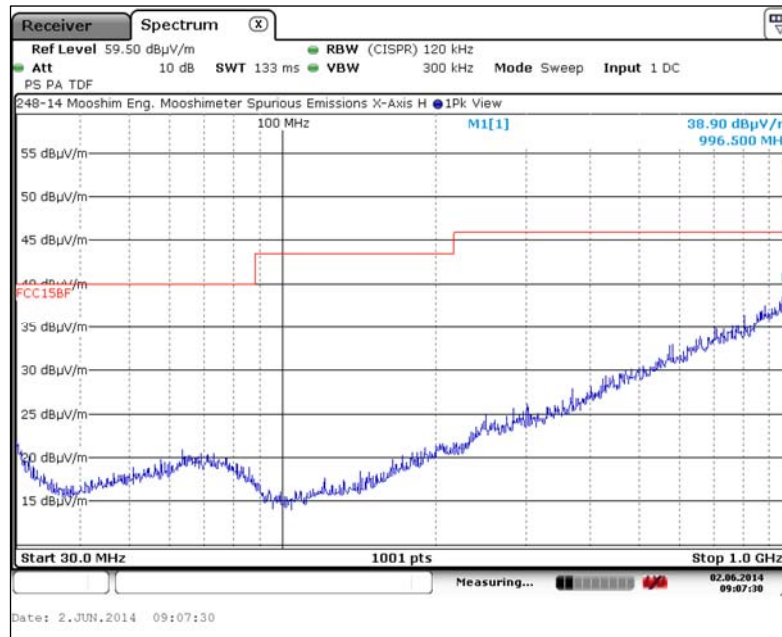


6. Measurement Data (continued)

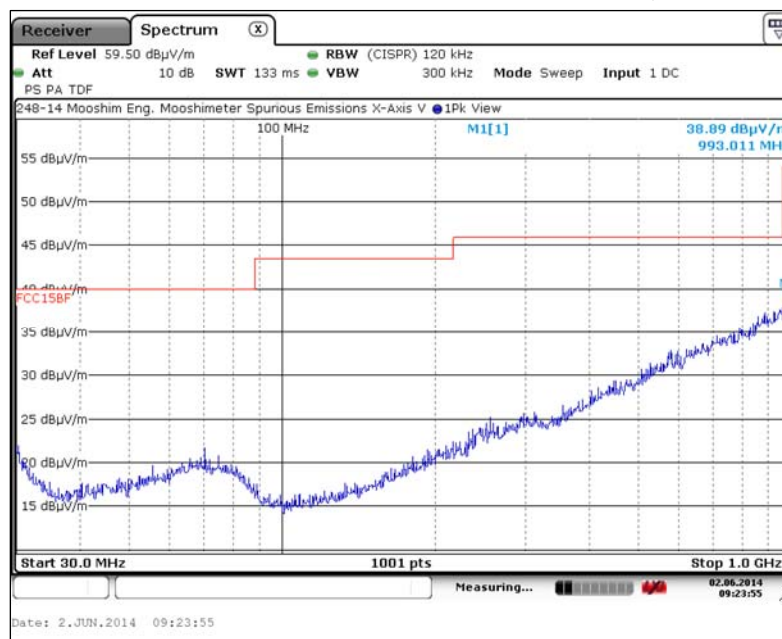
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.3. Spurious Radiated Emissions (30 MHz to 1 GHz) Measurement Results

A.3.1. Measurement Results – DUT Position: X-Axis, Horizontal Antenna



A.3.2. Measurement Results – DUT Position: X-Axis, Vertical Antenna

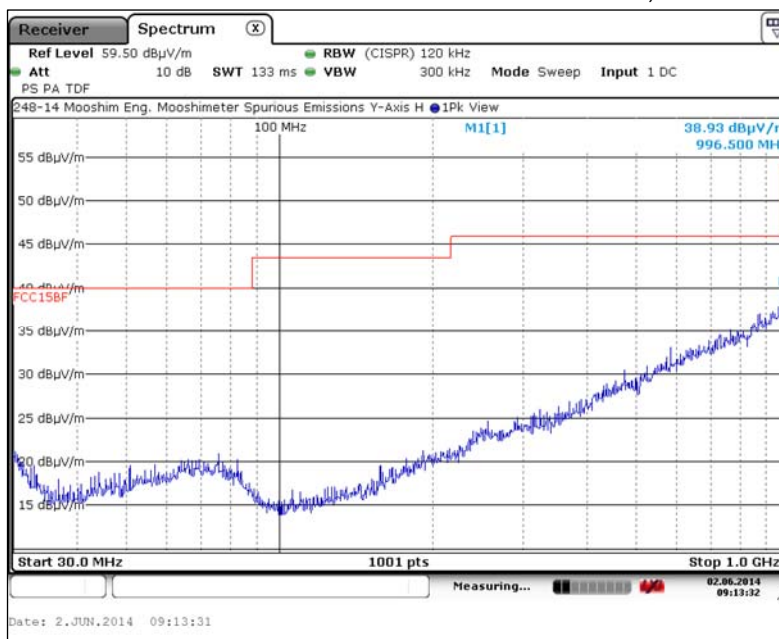


6. Measurement Data (continued)

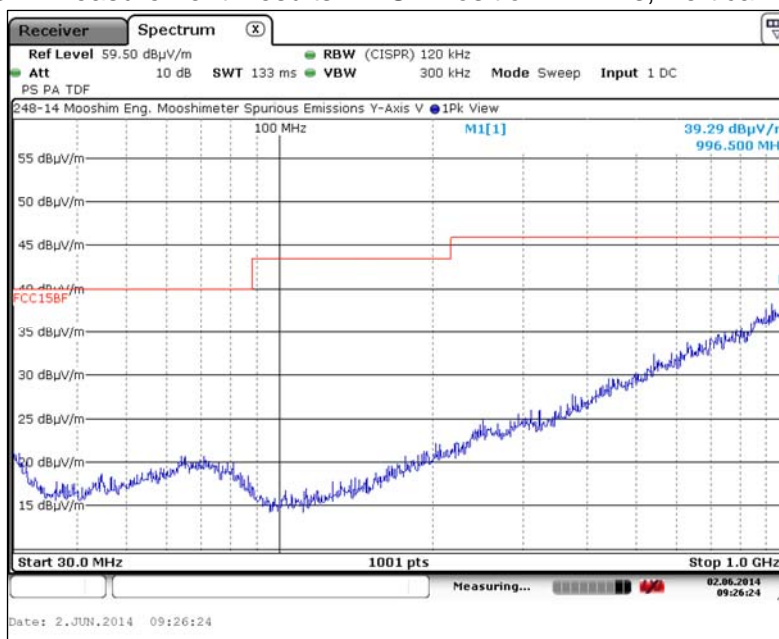
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.3. Spurious Radiated Emissions (30 MHz to 1 GHz) Measurement Results

A.3.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.3.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

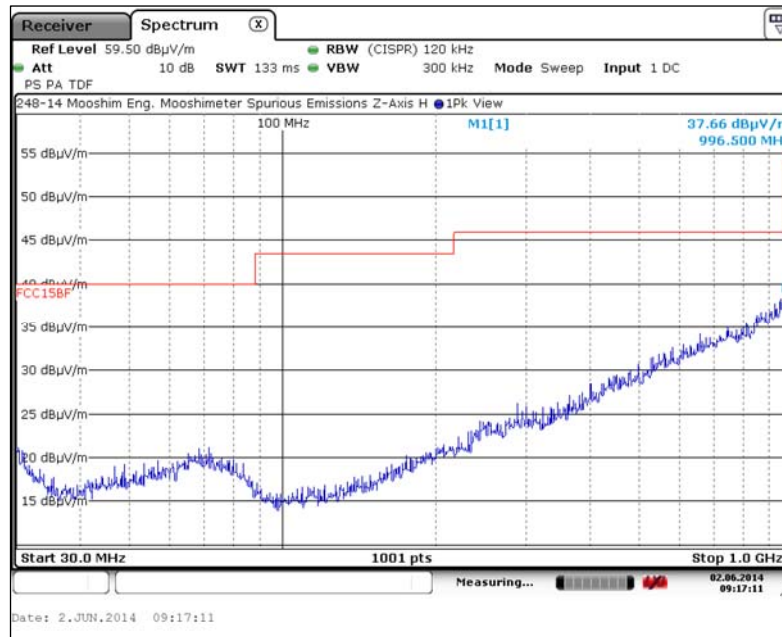


6. Measurement Data (continued)

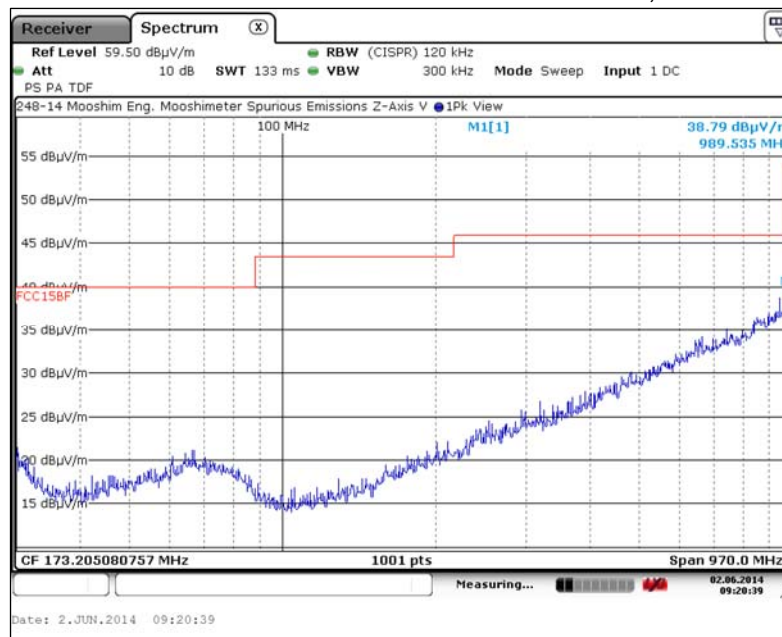
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.3. Spurious Radiated Emissions (30 MHz to 1 GHz) Measurement Results

A.3.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.3.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

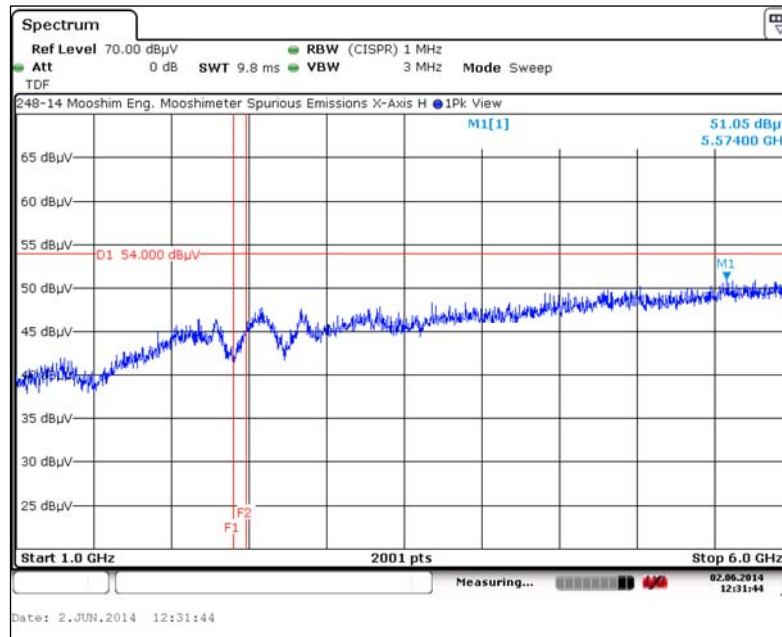


6. Measurement Data (continued)

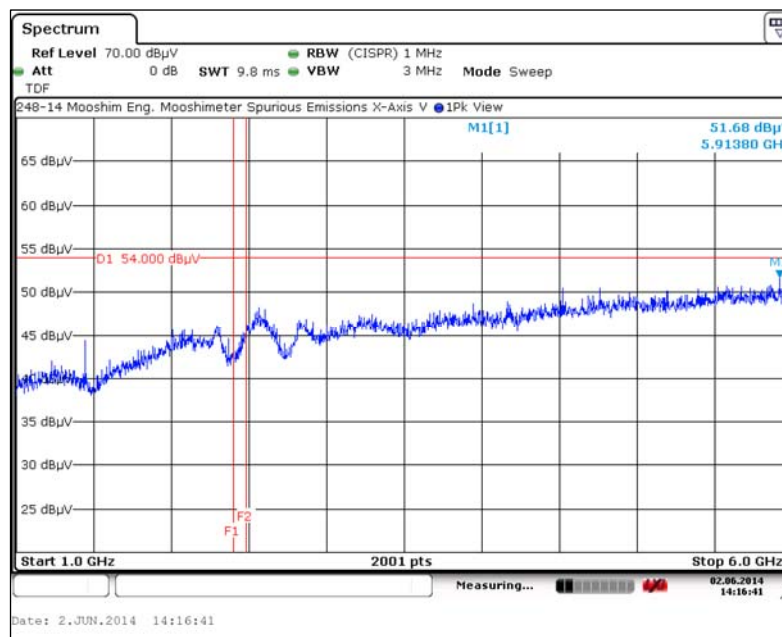
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.4. Spurious Radiated Emissions (1 GHz to 6 GHz) Measurement Results

A.4.1. Measurement Results – DUT Position: X-Axis, Horizontal Antenna



A.4.2. Measurement Results – DUT Position: X-Axis, Vertical Antenna

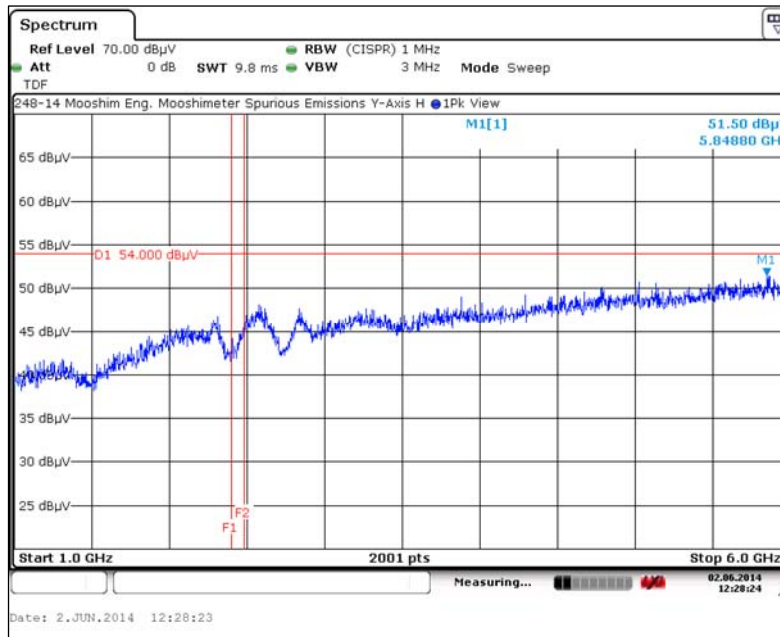


6. Measurement Data (continued)

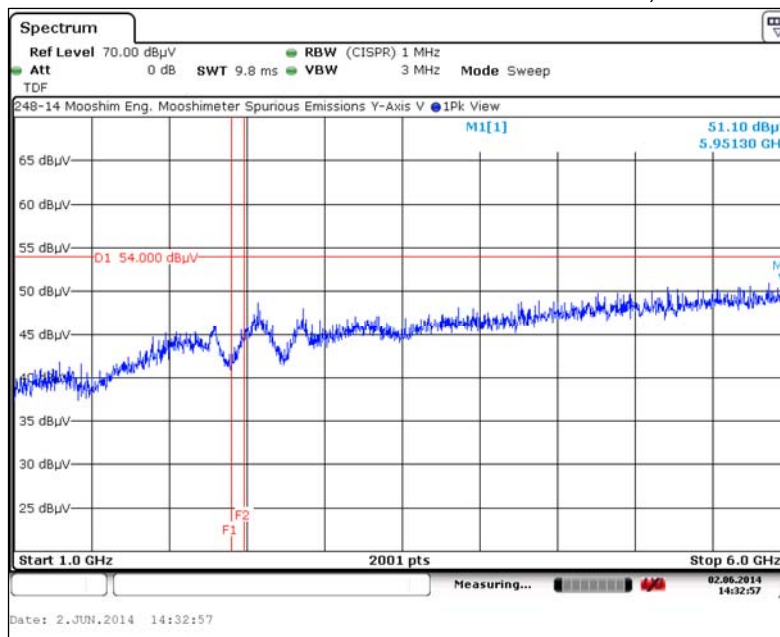
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.4. Spurious Radiated Emissions (1 GHz to 6 GHz) Measurement Results

A.4.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.4.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

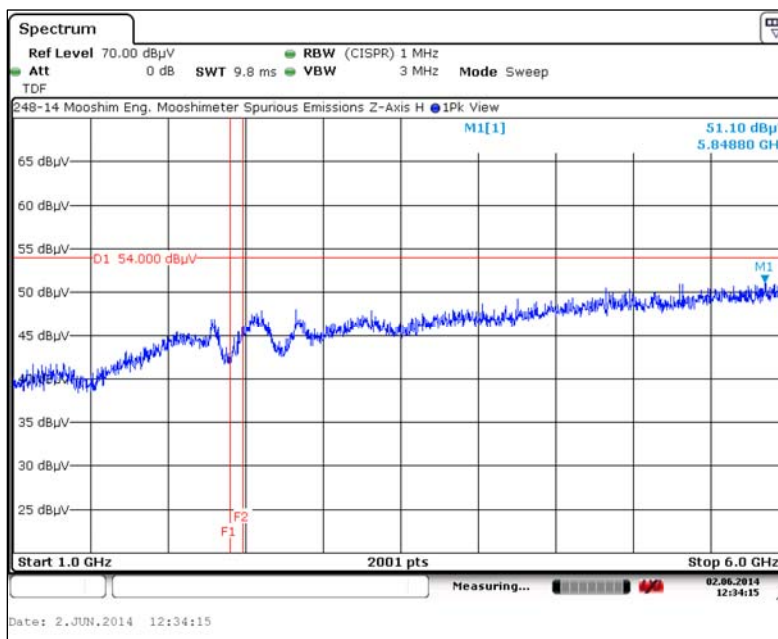


6. Measurement Data (continued)

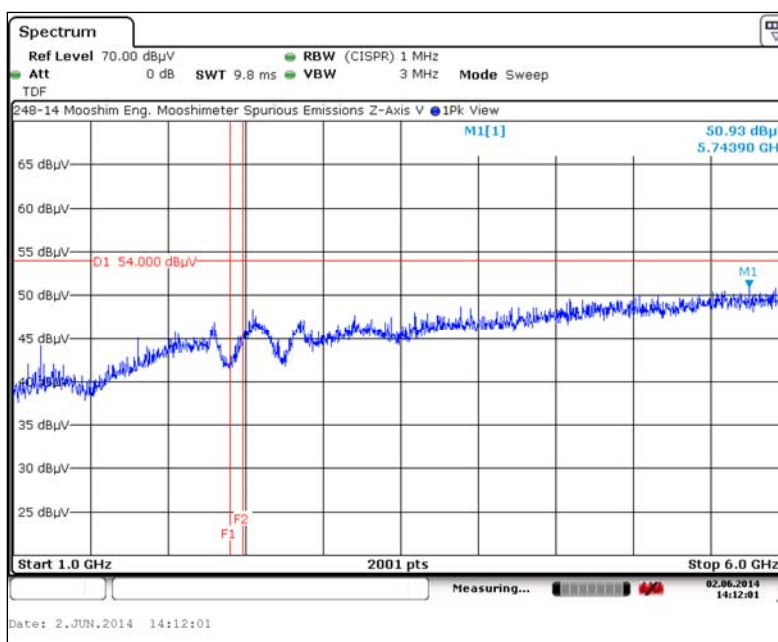
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.4. Spurious Radiated Emissions (1 GHz to 6 GHz) Measurement Results

A.4.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.4.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

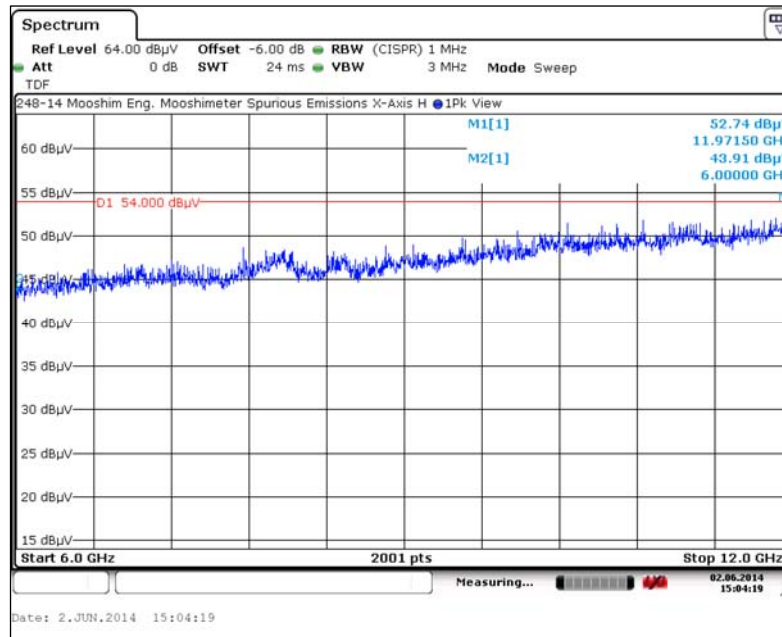


6. Measurement Data (continued)

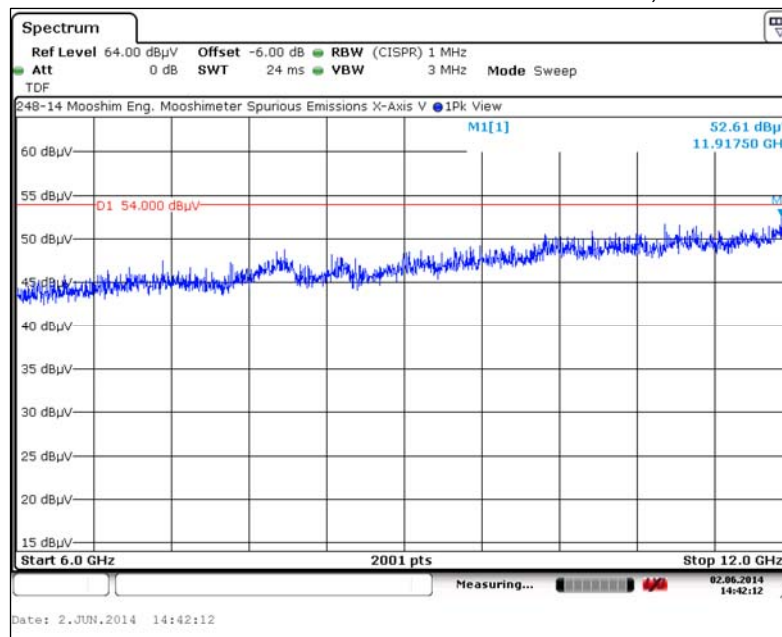
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.5. Spurious Radiated Emissions (6 GHz to 12 GHz) Measurement Results

A.5.1. Measurement Results – DUT Position: X-Axis, Horizontal Antenna



A.5.2. Measurement Results – DUT Position: X-Axis, Vertical Antenna

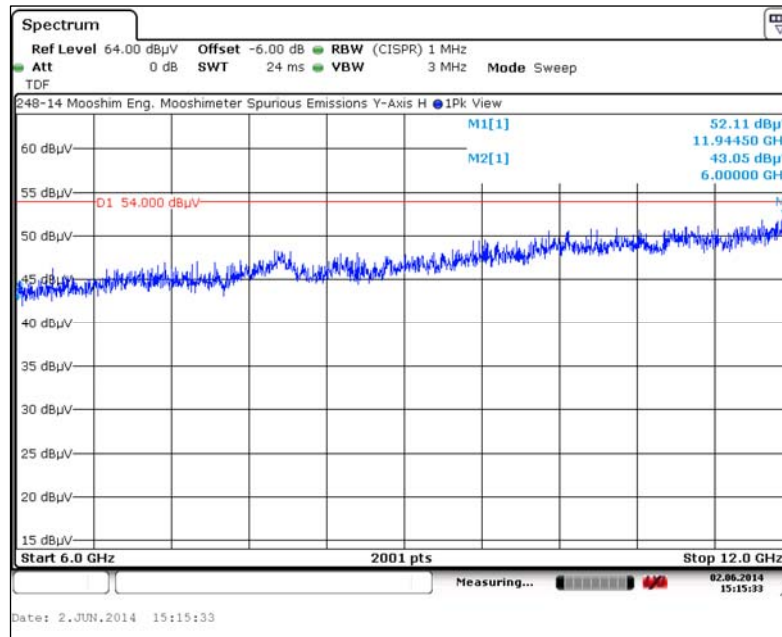


6. Measurement Data (continued)

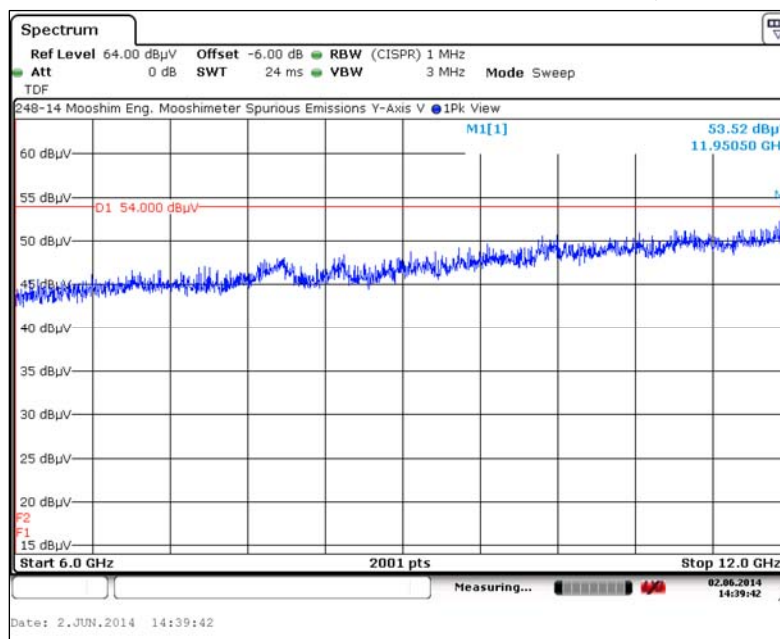
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.5. Spurious Radiated Emissions (6 GHz to 12 GHz) Measurement Results

A.5.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.5.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

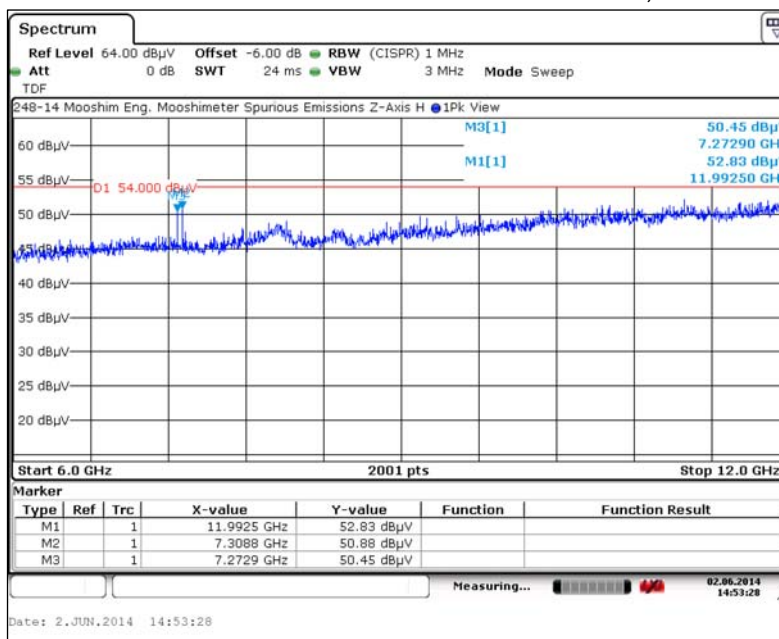


6. Measurement Data (continued)

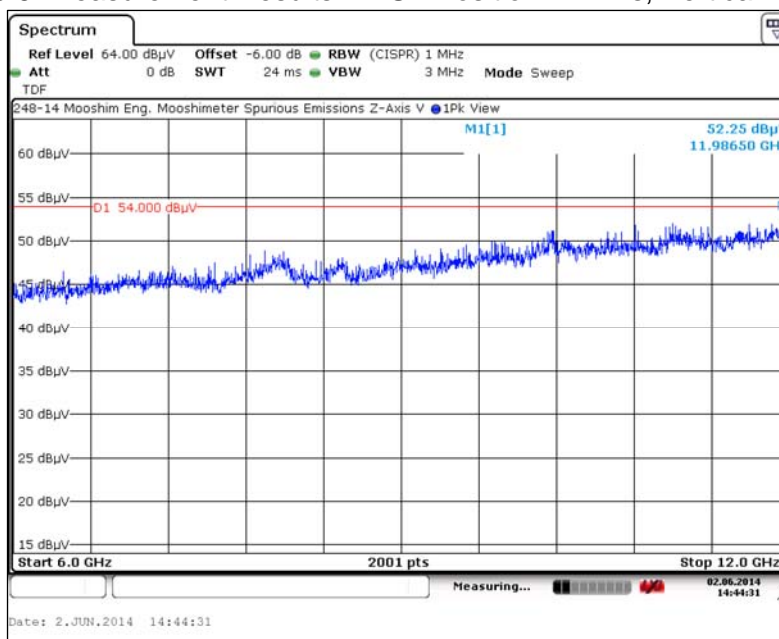
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.5. Spurious Radiated Emissions (6 GHz to 12 GHz) Measurement Results

A.5.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.5.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

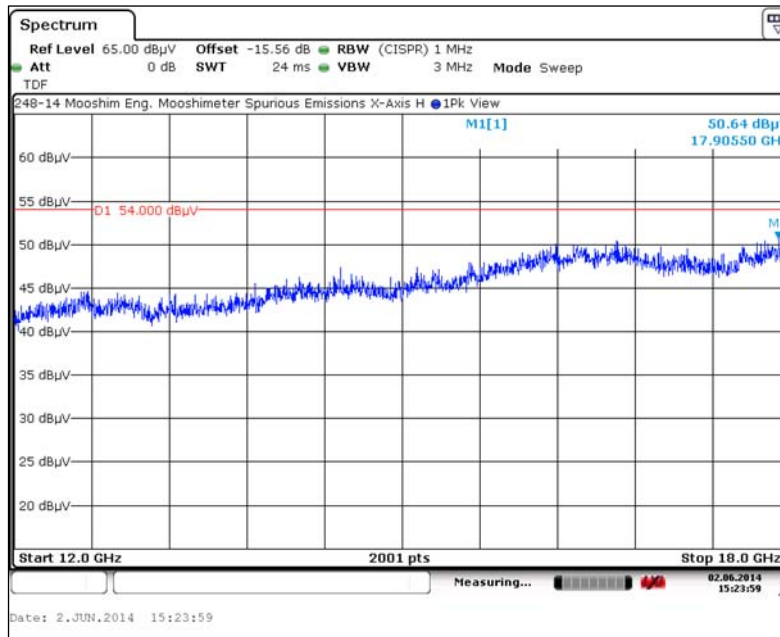


6. Measurement Data (continued)

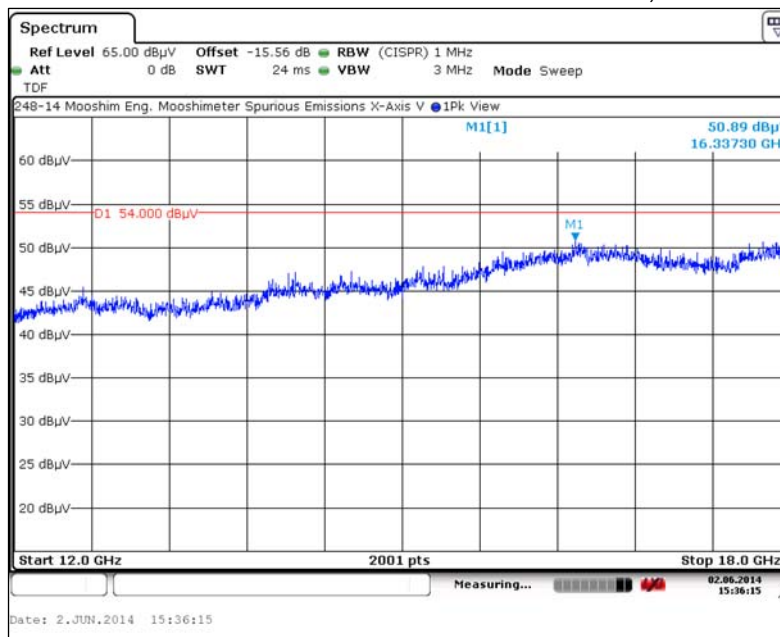
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.6. Spurious Radiated Emissions (12 GHz to 18 GHz) Measurement Results

A.6.1. Measurement Results – DUT Position: X-Axis, Horizontal Antenna



A.6.2. Measurement Results – DUT Position: X-Axis, Vertical Antenna

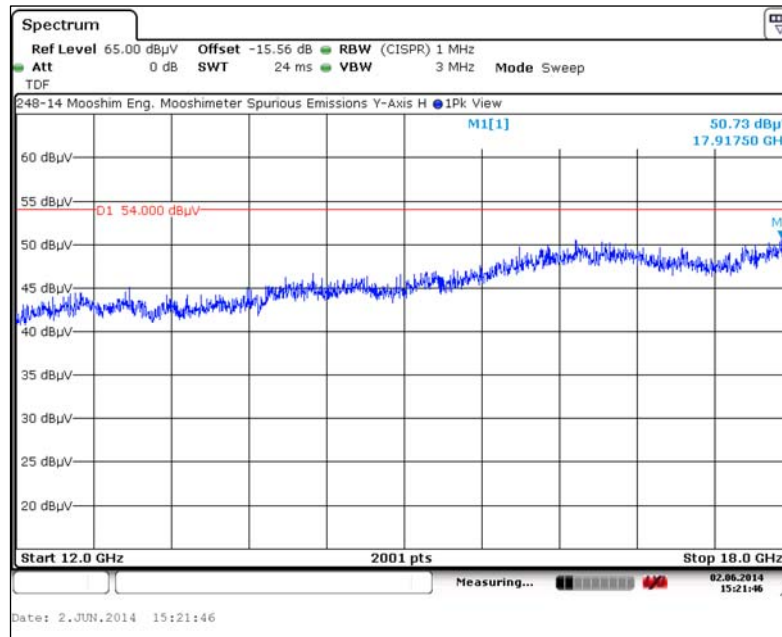


6. Measurement Data (continued)

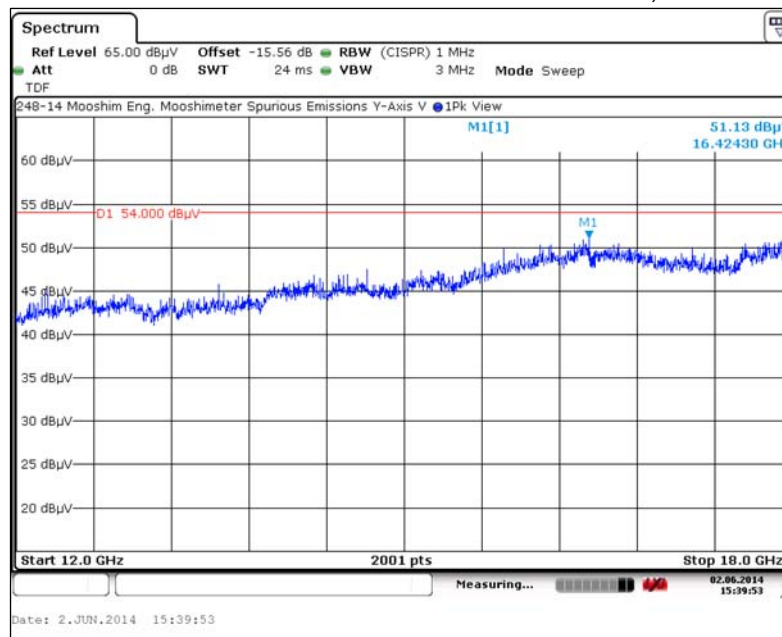
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.6. Spurious Radiated Emissions (12 GHz to 18 GHz) Measurement Results

A.6.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.6.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

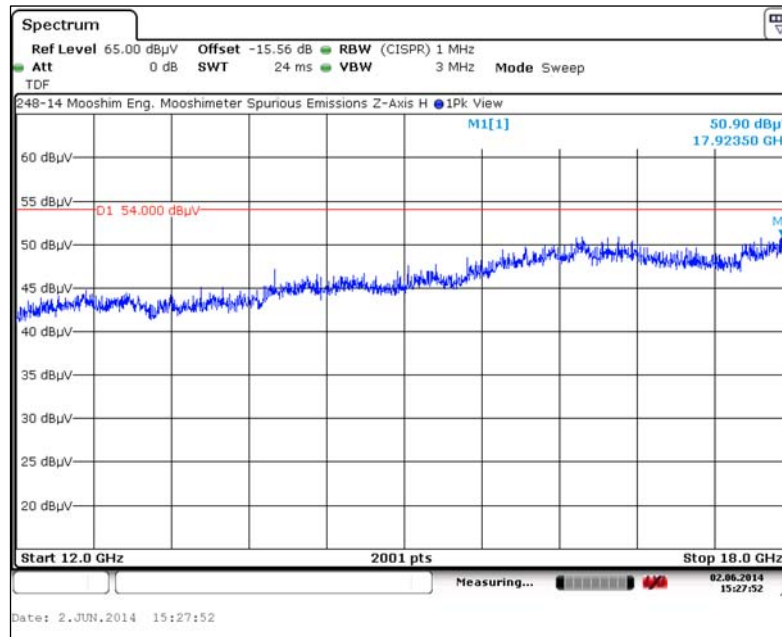


6. Measurement Data (continued)

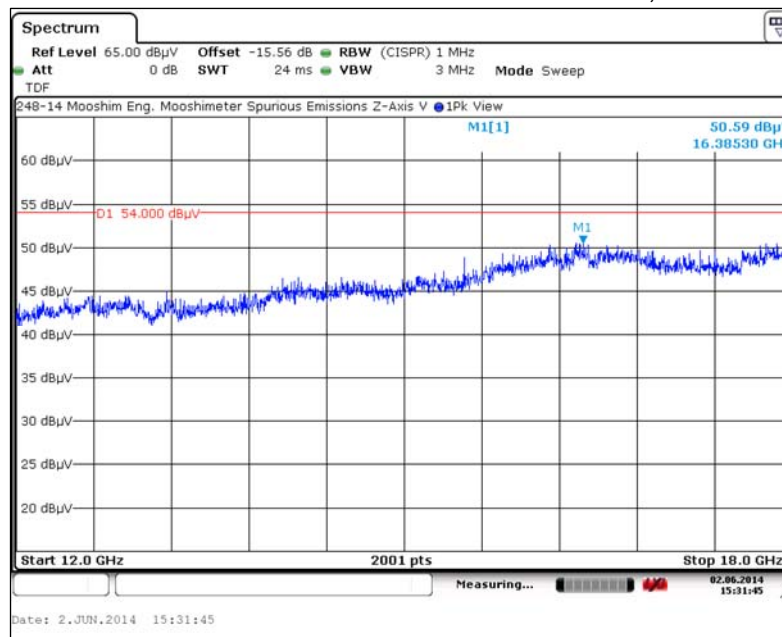
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.6. Spurious Radiated Emissions (12 GHz to 18 GHz) Measurement Results

A.6.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.6.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

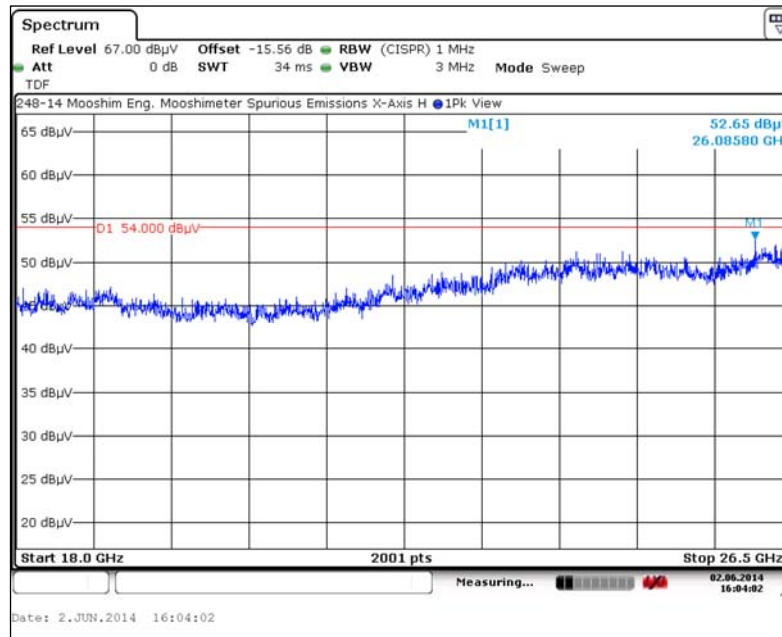


6. Measurement Data (continued)

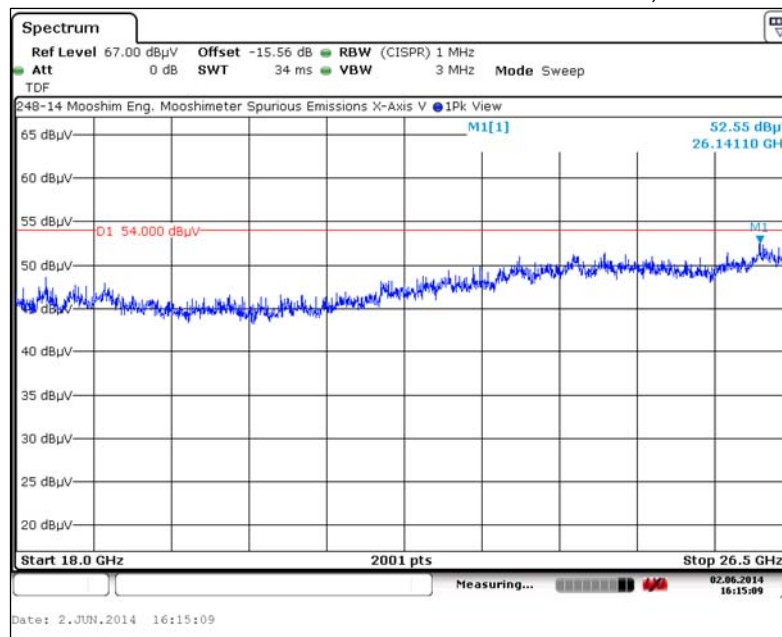
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.7. Spurious Radiated Emissions (18 GHz to 26.5 GHz) Measurement Results

A.7.1. Measurement Results – DUT Position: X-Axis, Horizontal Antenna



A.7.2. Measurement Results – DUT Position: X-Axis, Vertical Antenna

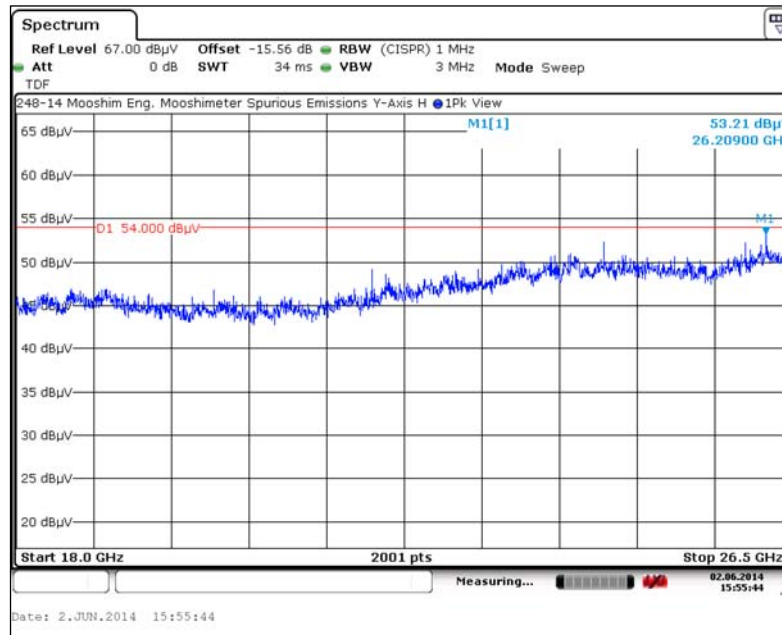


6. Measurement Data (continued)

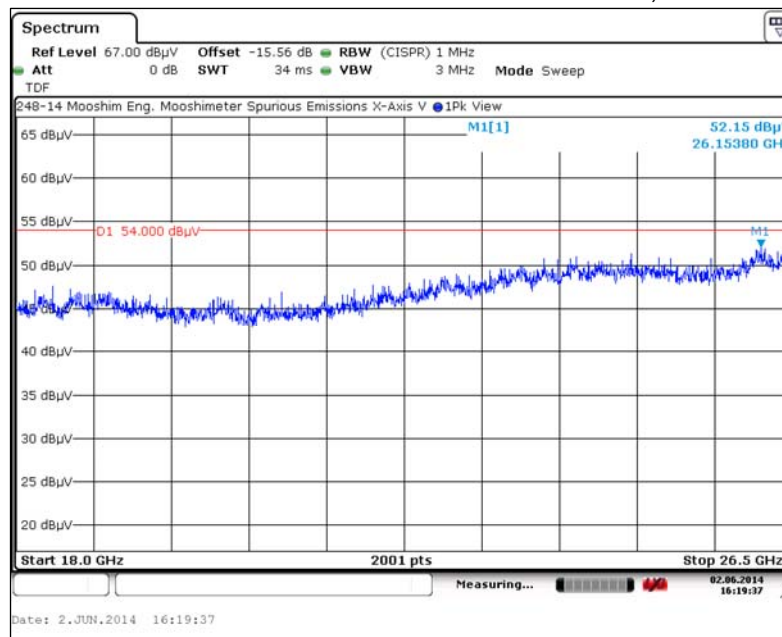
Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.7. Spurious Radiated Emissions (18 GHz to 26.5 GHz) Measurement Results

A.7.3. Measurement Results – DUT Position: Y–Axis, Horizontal Antenna



A.7.4. Measurement Results – DUT Position: Y–Axis, Vertical Antenna

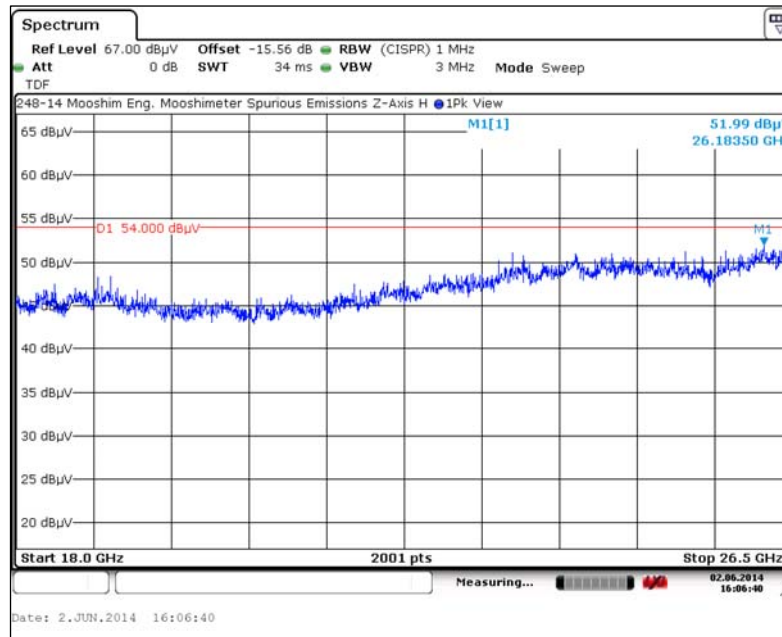


6. Measurement Data (continued)

Spurious Radiated Emissions, 10 kHz to EUT 10th Harmonic (15.249, Section (d)), IC RSS-GEN (continued)

A.7. Spurious Radiated Emissions (18 GHz to 26.5 GHz) Measurement Results

A.7.5. Measurement Results – DUT Position: Z-Axis, Horizontal Antenna



A.7.6. Measurement Results – DUT Position: Z-Axis, Vertical Antenna

