



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Code of Federal Regulations 47 Part 15 – Radio Frequency Devices

Subpart C – Intentional Radiators

Section 15.247

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

THE FOLLOWING **MEETS** THE ABOVE TEST SPECIFICATION

Formal Name: Striva Cap

Kind of Equipment: WiFi transceiver (streaming server)

Frequency Range: 2412 - 2462 MHz

Test Configuration: Portable

Model Number(s): STRIVA CAP (designated CAP1.5 on test sample)

Model(s) Tested: STRIVA CAP

Serial Number(s): 68407CC1C0225000015D, 515C9197C02250000159,
EAD21540C0225000016C, 412F0FF1C0225000016D

Date of Tests: September 19th through 23rd, 2011 and
December 8th through 13th, 2011

Test Conducted For: Koss Corporation
4129 North Port Washington Road
Milwaukee, WI, 53212, USA

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

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Company:
Model Tested:
Report Number:

Koss Corporation
STRIVA CAP
17289

SIGNATURE PAGE

Report By:

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

Craig Brandt
Test Engineer

Reviewed By:

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

William Stumpf
OATS Manager

Approved By:

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

Brian Mattson
General Manager



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United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 100276-0

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

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

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

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



2010-10-01 through 2011-09-30

Effective dates

Jolly A. Bruce
For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)



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1.0 Summary of Test Report

It was determined that the Koss Corporation Striva Cap, Model STRIVA CAP, complies with the requirements of CFR 47 Part 15 Subpart C Section 15.247.

Subpart C Section 15.247 Applicable Technical Requirements Tested:

| Section | Description | Procedure | Note | Compliant? |
|---------------------------------|--|------------------------------------|------|------------|
| 15.247(a)(2) | 6 dB Emission Bandwidth | FCC Publication KDB 558074 | 1 | Yes |
| 15.247(b)(3) | Maximum Peak Conducted Output Power | FCC Publication KDB 558074 | 1 | Yes |
| 15.247(d) | RF Conducted Spurious | FCC Publication KDB 558074 | 1 | Yes |
| 15.247(d) | Band Edge | FCC Publication KDB 558074 | 1,2 | Yes |
| 15.247(e) | Power Spectral Density | FCC Publication KDB 558074 | 1 | Yes |
| 15.247 (d), 15.205 | Radiated Harmonics in Restricted Band | ANSI C63.4-2009 & ANSI C63.10-2009 | 2 | Yes |
| 15.247(d), 15.205(c), 15.209(a) | Radiated Spurious Emissions other than Harmonics | ANSI C63.4-2009 & ANSI C63.10-2009 | 2 | Yes |
| 15.35(c) | Duty Cycle | ANSI C63.4-2009 & ANSI C63.10-2009 | | NA |
| 15.207(a) | AC Line Conducted Emissions | ANSI C63.4-2009 & ANSI C63.10-2009 | | Yes |

Note 1: RF conducted measurement.

Note 2: Radiated emission measurement.

2.0 Introduction

In September and December, 2011 the Striva Cap, Model STRIVA CAP, as provided from Koss Corporation, was tested to the requirements of CFR 47 Part 15 Subpart C Section 15.247. To meet these requirements, the procedures contained within this report were performed by personnel of D.L.S Electronic Systems, Inc.



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3.0 Test Facilities

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

Wisconsin Test Facility:

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

Wheeling Test Facility:

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

4.0 Description of Test Sample

Description:

The Striva Cap is a small flat rectangular enclosure with a mildly protruding loop of plastic. The housing is black with red accents. A mini-USB jack on side opposite the loop. Under the loop, there is a small light pipe flush with the surface that is lit by an LED from behind. Functionally, the unit is a wireless transceiver, using WiFi to stream music to other devices.

Type of Equipment / Frequency Range:

Portable / 2412-2462 MHz

Physical Dimensions of Equipment Under Test:

Length: 1.5 in. Width: 1.75 in. Height: 0.5 in.

Power Source:

3.7 VDC rechargeable battery.

Internal Frequencies:

2000 or 1000 kHz;

40, 24 MHz

Transmit / Receive Frequencies Used For Test Purpose:

Section 15.247: Low channel: 2412 MHz, Middle channel: 2437 MHz,
High channel: 2462 MHz



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Type of Modulation(s) / Antenna Type:

CSMA/CA / SMT Chip antenna (+2 dBi gain)

Description of Circuit Board(s) / Part Number:

| | |
|----------|------------|
| Main PCB | CAP1.5rev2 |
|----------|------------|

Crystal Information

Compliance testing was done using the KDS P/N 1B940000BB0A crystal and re-verified using the ECS P/N 400-8-36-CKM-740 crystal. Both crystals have the same specifications. No difference was noted.



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5.0 Test Equipment

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

D.L.S. Wisconsin

| Description | Manufacturer | Model Number | Serial Number | Frequency Range | Cal Dates | Cal Due Dates |
|----------------------|---------------------|--------------------------|---------------|------------------|-----------|---------------|
| Receiver | Rohde & Schwarz | ESI 40 | 837808/005 | 20 Hz – 40 GHz | 7/17/11 | 7/17/12 |
| Preamplifier | Rohde & Schwarz | TS-PR10 | 032001/003 | 9 kHz – 1 GHz | 1/11/11 | 1/11/12 |
| Antenna | EMCO | 3104C | 9810-4849 | 20 MHz – 200 MHz | 2/16/10 | 2/16/12 |
| Antenna | EMCO | 3146 | 1604 | 200 MHz – 1 GHz | 8/25/10 | 8/25/12 |
| Preamp | Ciao | CA118-4010 | 101 | 1GHz-18GHz | 1/25/11 | 1/25/12 |
| Horn Antenna | EMCO | 3115 | 9502-4451 | 1-18GHz | 4/11/11 | 4/11/13 |
| Filter- High-Pass | Q-Microwave | 100462 | 1 | 4.2GHz-18GHz | 5/3/11 | 5/3/12 |
| Preamp | Miteq | AMF-8B-180265-40-10P-H/S | 438727 | 18GHz-26GHz | 8/5/11 | 8/5/12 |
| Horn Antenna | A.H. Systems | SAS-574 | 222 | 18 – 40GHz | 5/4/10 | 5/4/12 |
| High Pass Filter | Planar Filter Co. | CL22600-9000-CD-SS | PF1229/7728 | 18 – 40GHz | 8/3/11 | 8/3/12 |
| Receiver | Rohde & Schwarz | ESI 40 | 837808/006 | 20 Hz – 40 GHz | 4/11/11 | 4/11/12 |
| LISN | Solar | 9252-50-R-24-BNC | 961019 | 9 kHz – 30 MHz | 6/6/11 | 6/6/12 |
| Filter- High-Pass | SOLAR | 7930-120 | 090702 | 120 kHz – 30 MHz | 1/11/11 | 1/11/12 |
| Limiter | Electro-Metrics | EM-7600 | 706 | 9 kHz – 30 MHz | 1/11/11 | 1/11/12 |
| 20 dB attenuator | Aeroflex/weinsche I | 75A-20-12 | 1071 | DC – 40 GHz | 6/29/11 | 6/29/12 |
| 20 dB attenuator | Anritsu | 42N50-20 | 451 | DC – 18 GHz | 1/11/11 | 1/11/12 |
| Wideband Power Meter | Anritsu | ML2487A | SK00002069 | 100 kHz – 65 GHz | 3/4/11 | 3/4/12 |
| Power Sensor | Anritsu | MA2490A | 031563 | 50 MHz – 8 GHz | 3/7/11 | 3/7/12 |



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6.0 Test Arrangements

Radiated Emissions Measurement Arrangement:

All radiated emission measurements were performed at D.L.S. Electronic Systems, Inc. and set up according to ANSI C63.4-2009 and ANSI C63.10-2009, unless otherwise noted. Description of procedures and measurements can be found in Appendix B – Measurement Data. See Appendix A for additional photos of the test set up.

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

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

RF Conducted Emissions Measurement Arrangement:

All RF conducted emission measurements were performed at D.L.S. Electronic Systems, Inc. and set up according to ANSI C63.4-2009 and ANSI C63.10-2009, unless otherwise noted. Description of procedures and measurements can be found in Appendix B – Measurement Data. See Appendix A for additional photos of the test set up.

7.0 Test Conditions

Normal Test Conditions:

Temperature and Humidity:

70°F at 50% RH

Supply Voltage:

3.7 VDC



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8.0 Modifications Made To EUT For Compliance

Section 15.247: No modifications made at time of test.

9.0 Additional Descriptions

The EUT was connected to the measuring equipment through a temporary connector/cable for RF conducted measurements.

Special test software was installed in the EUT for measurements requiring the EUT to transmit continuously at a single channel.

The EUT cannot transmit while charging (USB power connected).

The test sample was designated as model CAP1.5. This model number was only used for the test sample.

10.0 Results

Measurements were performed in accordance with ANSI C63.4-2009 and ANSI C63.10-2009. Graphical and tabular data can be found in Appendix B at the end of this report.

11.0 Conclusion

The Striva Cap, Model STRIVA CAP, as provided from Koss Corporation, tested in September and December, 2011 **meets** the requirements of CFR 47 Part 15 Subpart C Section 15.247.

Appendix A – Test Photos

Photo Information and Test Setup:

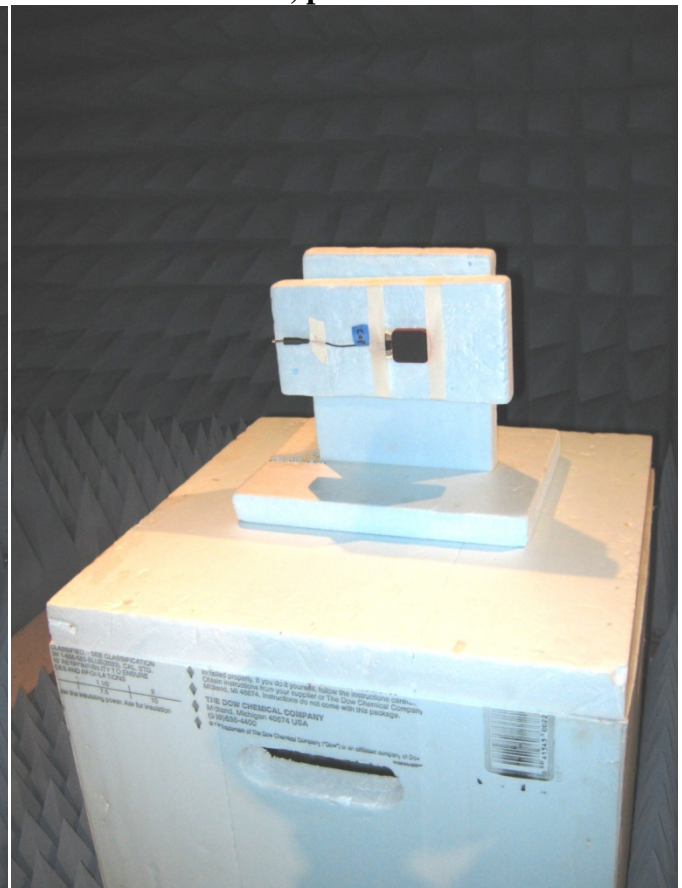
- Item0: Striva Cap, Model STRIVA CAP
- Item1: 15.5 cm audio cable (provided with STRIVA CAP)

Radiated Emissions

Above 1 GHz, position 1



Above 1 GHz, position 2



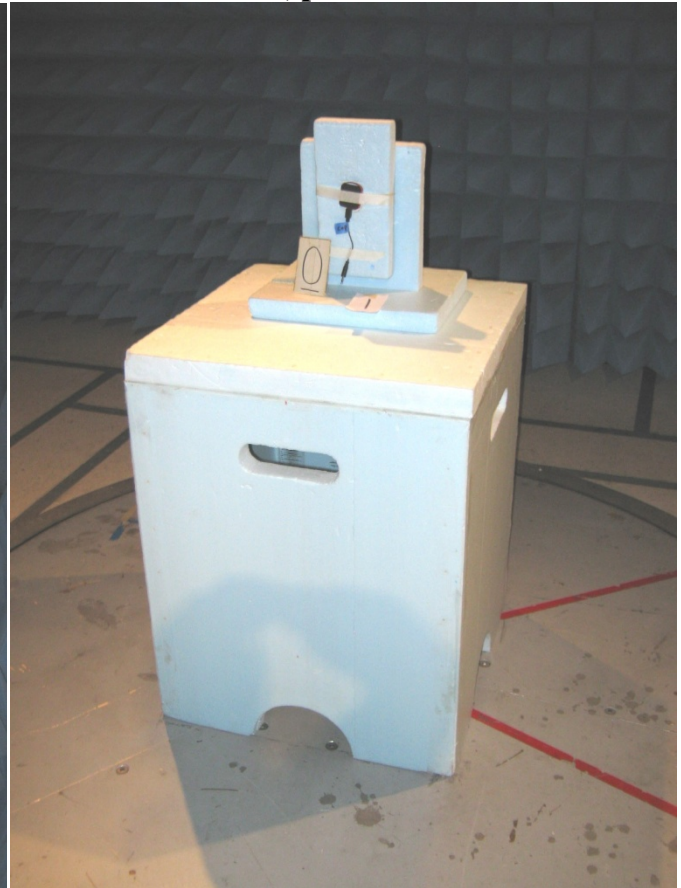
Appendix A

Radiated Emissions

Above 1 GHz, position 3



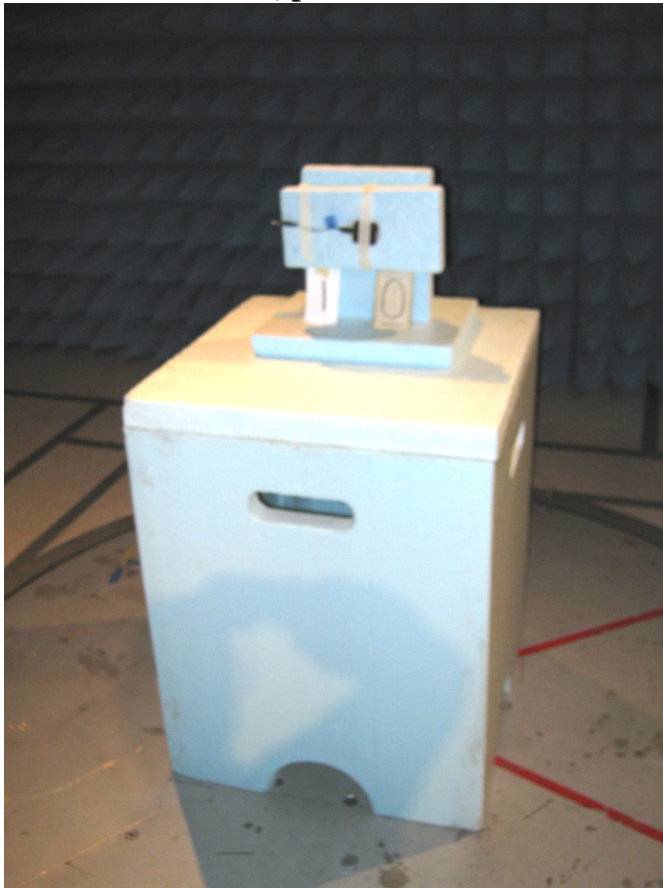
Below 1 GHz, position 1



Appendix A

Radiated Emissions

Below 1 GHz, position 2



Below 1 GHz, position 3

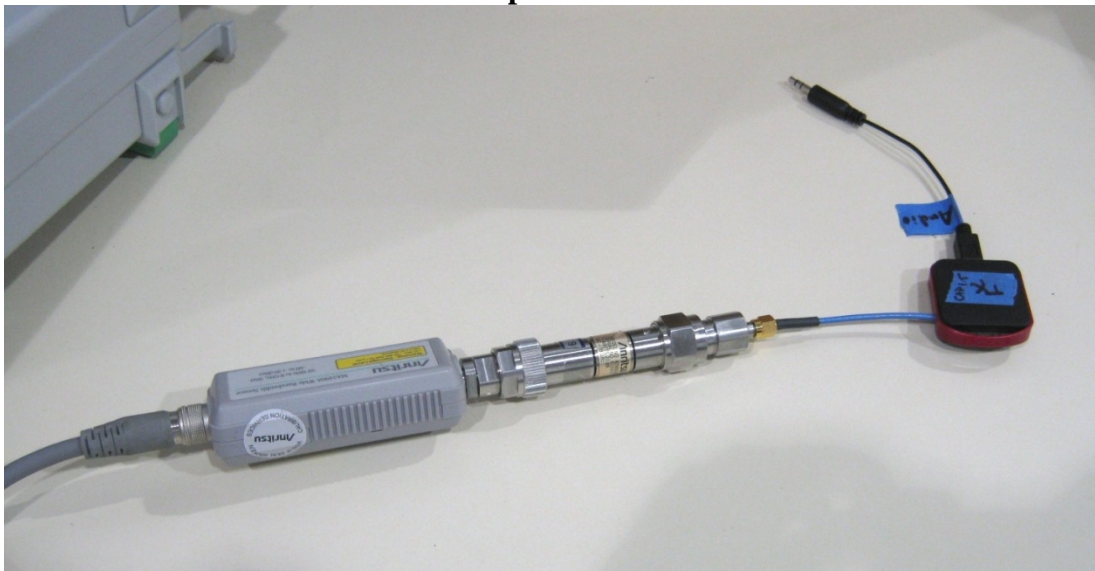


Appendix A

RF Conducted Emissions



Output Power



Appendix A

AC Line Conducted Emissions - Front



AC Line Conducted Emissions - Back





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Appendix B – Measurement Data

B1.0 6 dB Emission Bandwidth - 802.11g mode

Rule Part: FCC Part 15.247(a)(2)

Test Procedure: Measurement of Digital Transmission Systems Operating under Section 15.247 (March 23, 2005)

Limit: Must be greater than 500 kHz.

Results: Compliant

Notes: The EUT was set to transmit at its maximum power, maximum data rate, and maximum duty cycle.



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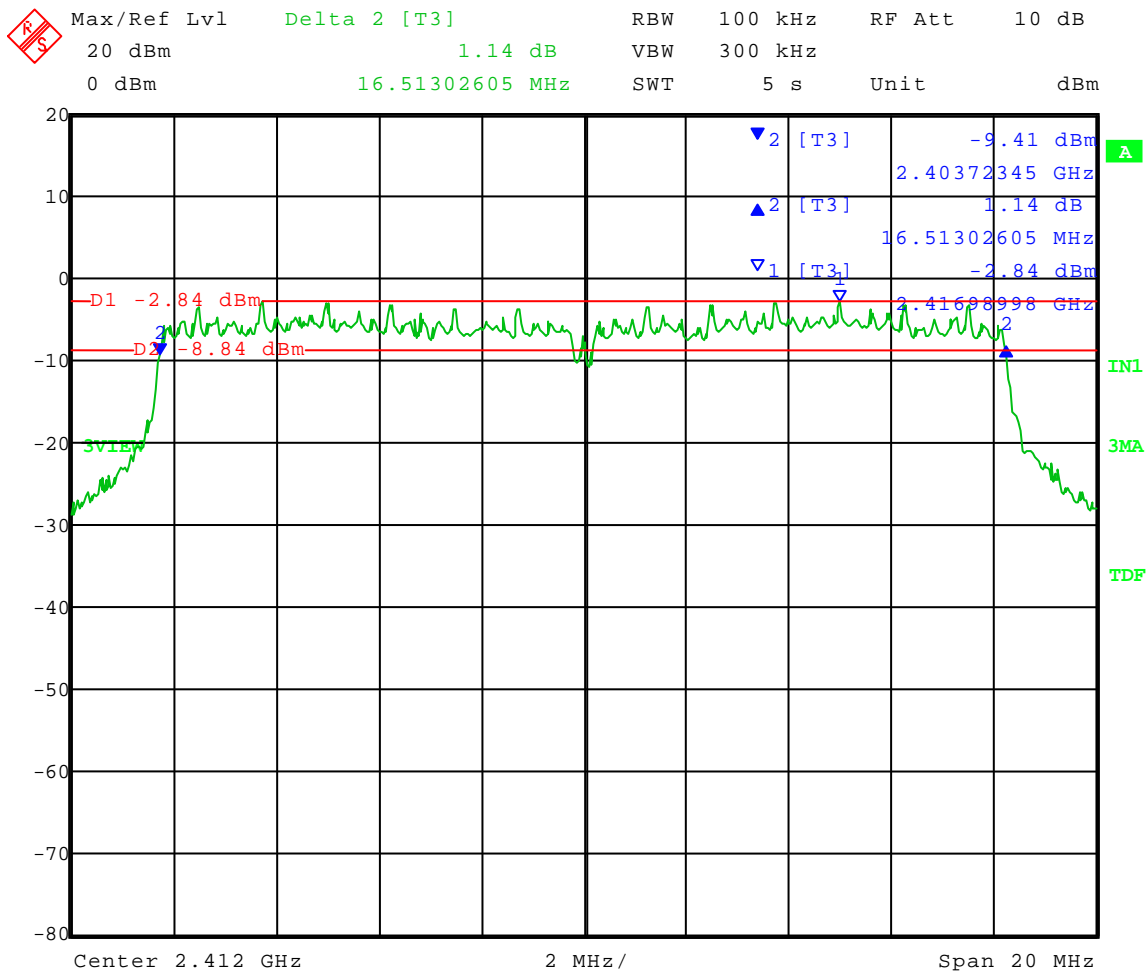
Company: Koss Corporation
 Model Tested: STRIVA CAP
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Appendix B – Measurement Data

Test Date: 09-21-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: 6 dB Bandwidth - Conducted
 Operator: Craig B

Comment: **Low Channel**: Frequency – 2.412 GHz
 802.11g

6 dB Bandwidth = 16.5 MHz



Date: 21.SEP.2011 10:10:11



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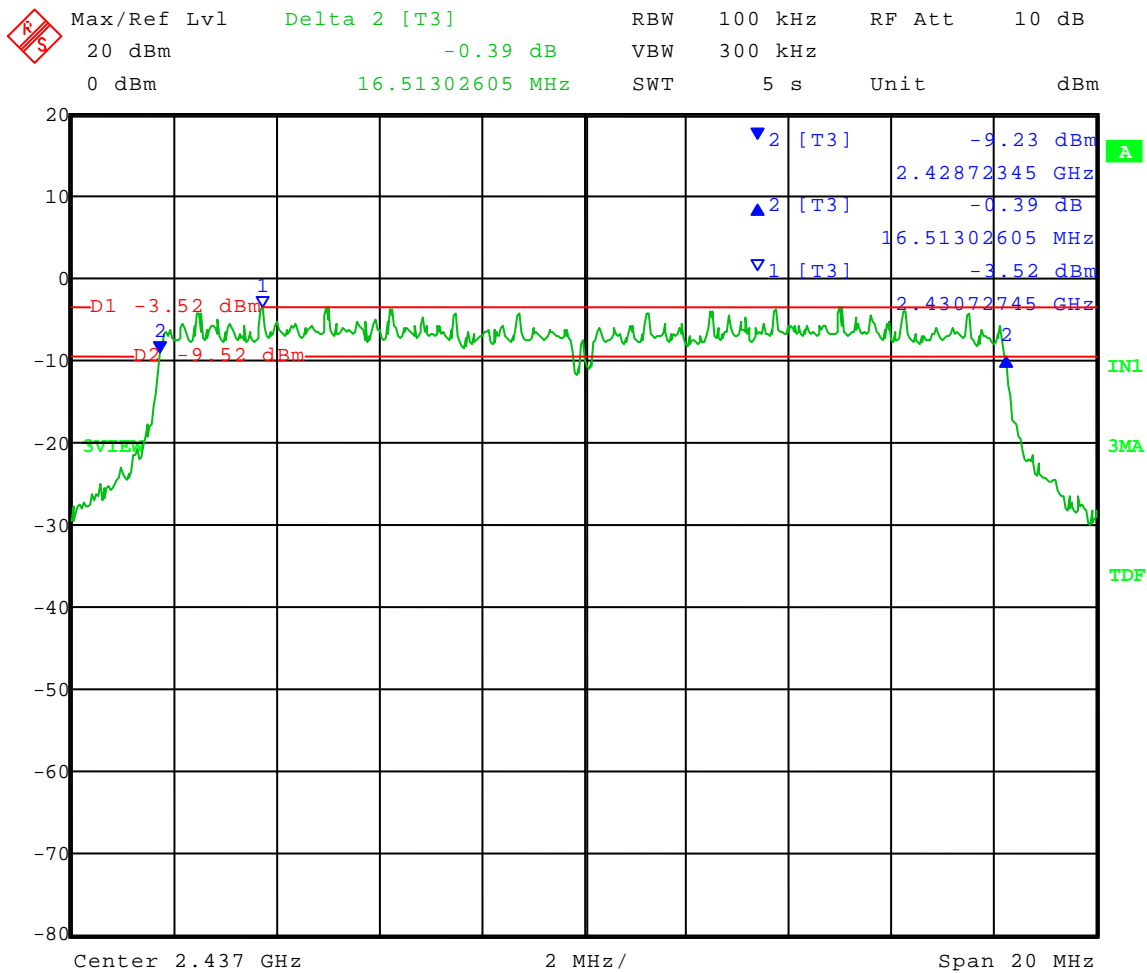
Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

Appendix B – Measurement Data

Test Date: 09-21-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: 6 dB Bandwidth - Conducted
 Operator: Craig B

Comment: **Middle Channel:** Frequency – 2.437 GHz
 802.11g

6 dB Bandwidth = 16.5 MHz



Date: 21.SEP.2011 10:17:39



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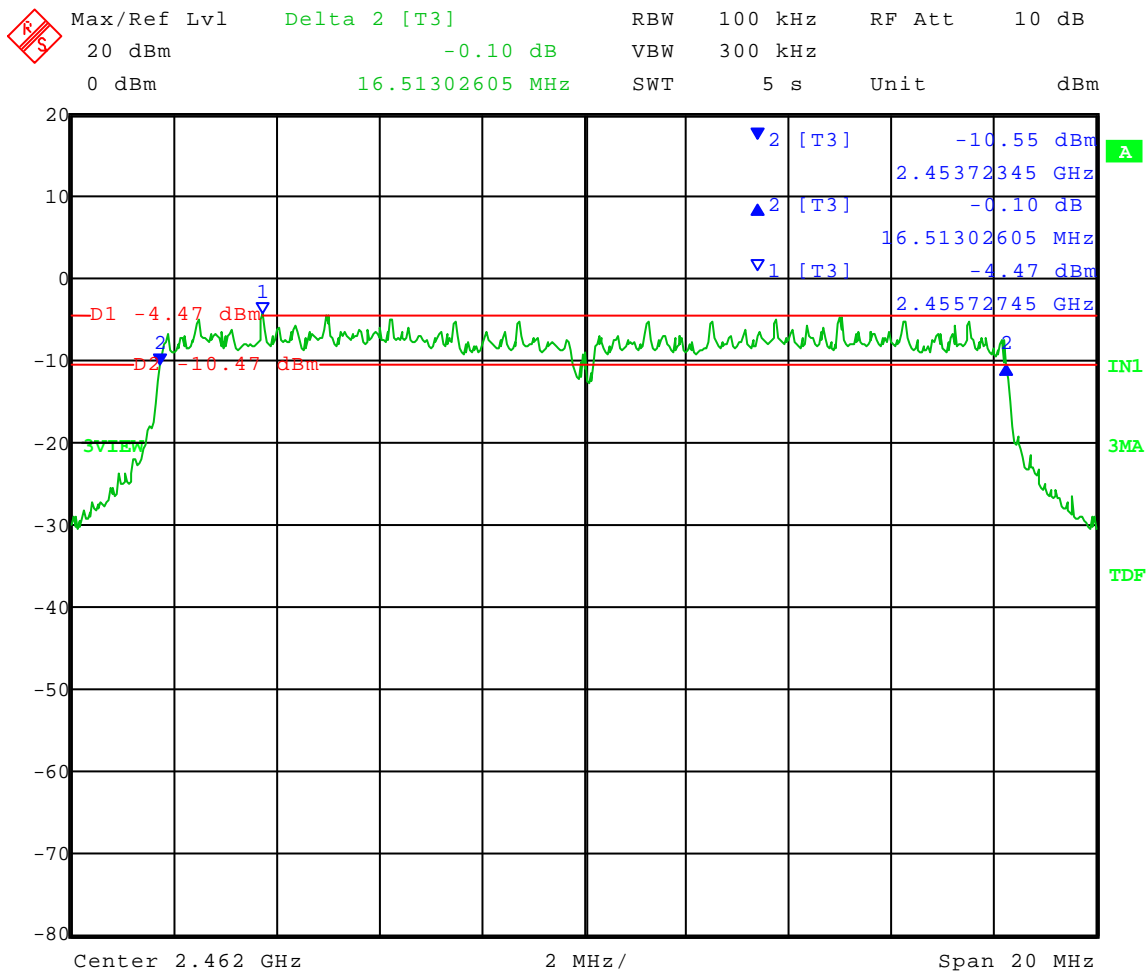
Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

Appendix B – Measurement Data

Test Date: 09-21-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: 6 dB Bandwidth - Conducted
 Operator: Craig B

Comment: **High Channel**: Frequency – 2.462 GHz
 802.11g

6 dB Bandwidth = 16.5 MHz



Date: 21.SEP.2011 10:20:21



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Model Tested: STRIVA CAP
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Appendix B – Measurement Data

B1.1 6 dB Emission Bandwidth - 802.11b mode

Rule Part: FCC Part 15.247(a)(2)

Test Procedure: Measurement of Digital Transmission Systems Operating under Section 15.247 (March 23, 2005)

Limit: Must be greater than 500 kHz.

Results: Compliant

Notes: The EUT was set to transmit at its maximum power, maximum data rate, and maximum duty cycle.



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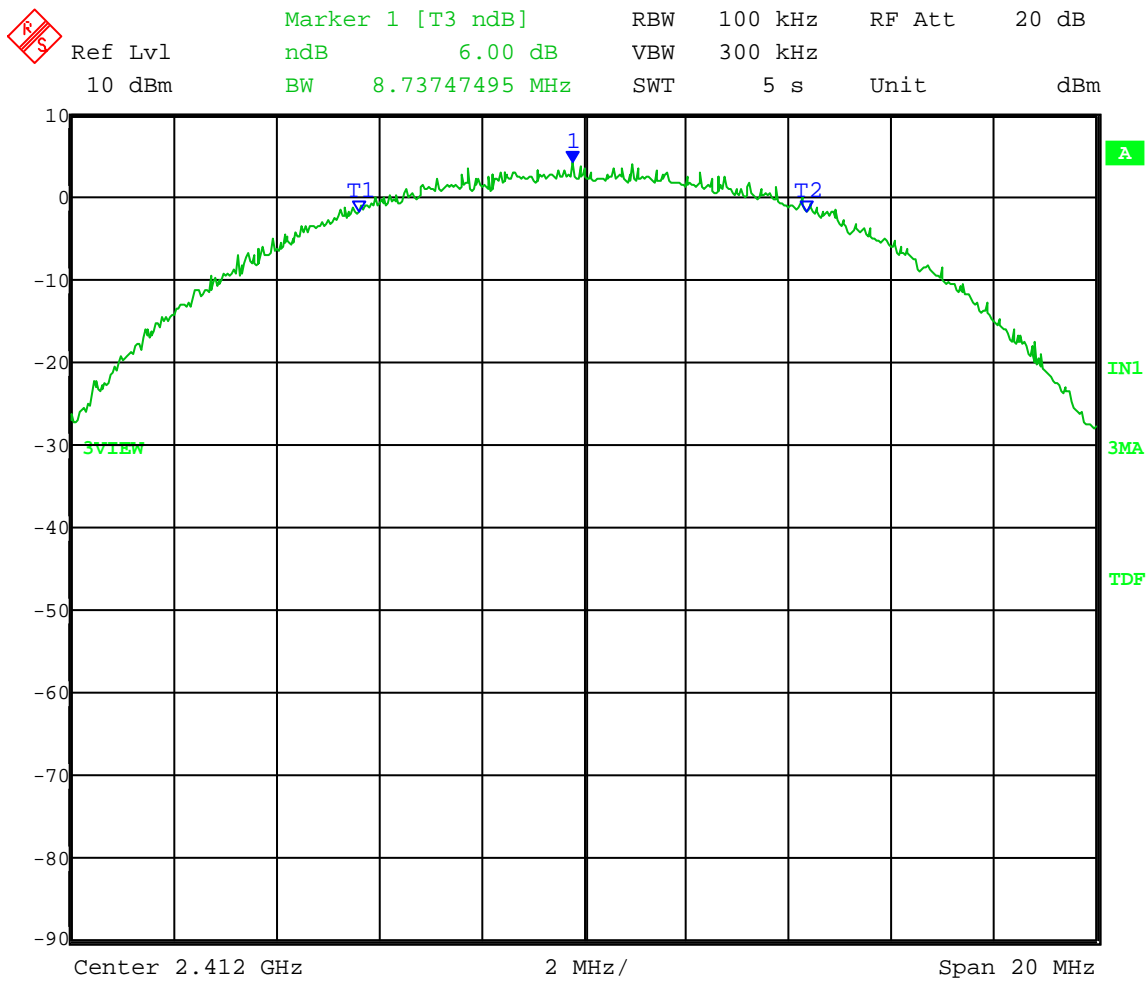
Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

Test Date: 12-12-2011
Company: Koss Corporation
EUT: CAP1.5
Test: 6 dB Bandwidth - Conducted
Operator: Craig B

Comment: **Low Channel**: Frequency – 2.412 GHz
802.11b

6 dB Bandwidth = 8.74 MHz



Date: 12.DEC.2011 15:11:32



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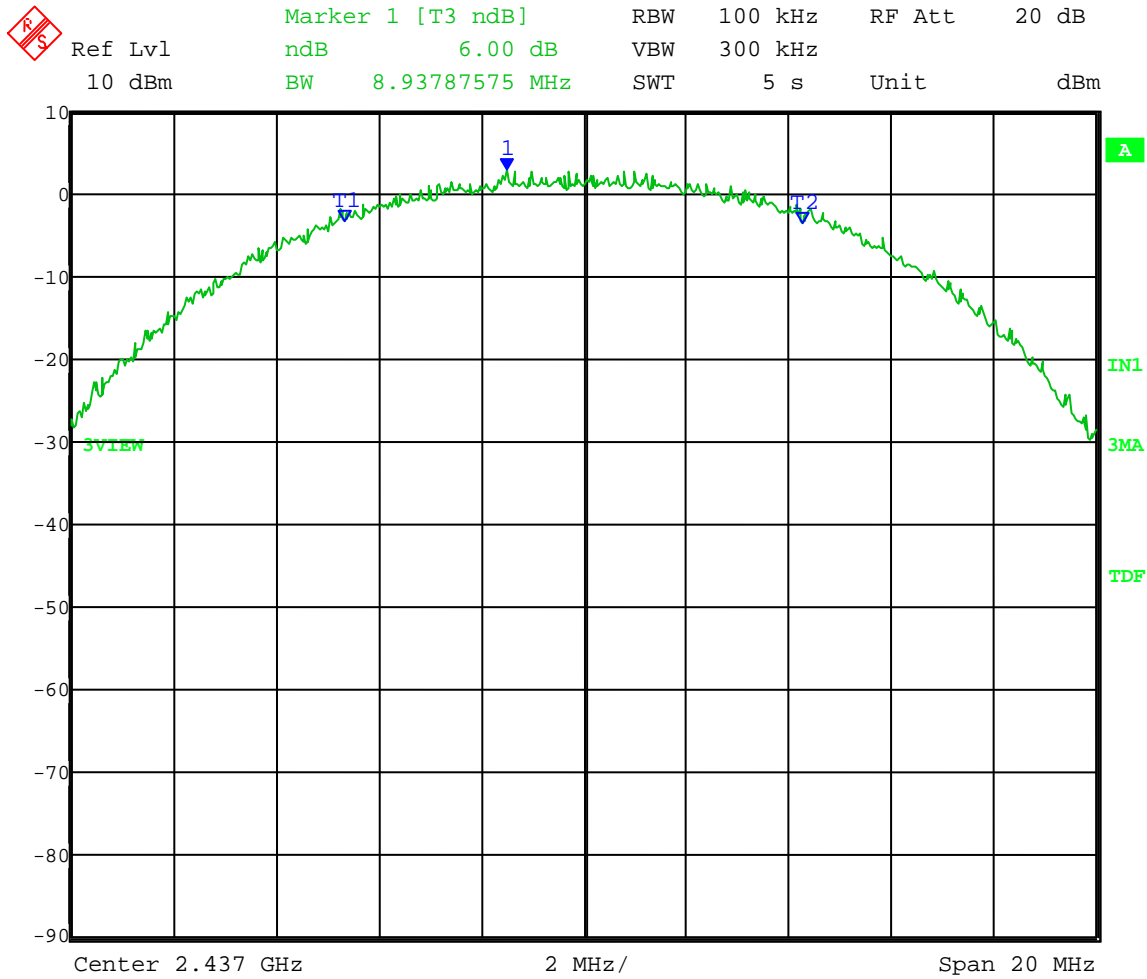
Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

Test Date: 12-13-2011
Company: Koss Corporation
EUT: CAP1.5
Test: 6 dB Bandwidth - Conducted
Operator: Craig B

Comment: **Middle Channel:** Frequency – 2.437 GHz
802.11b

6 dB Bandwidth = 8.94 MHz



Date: 13.DEC.2011 08:49:53



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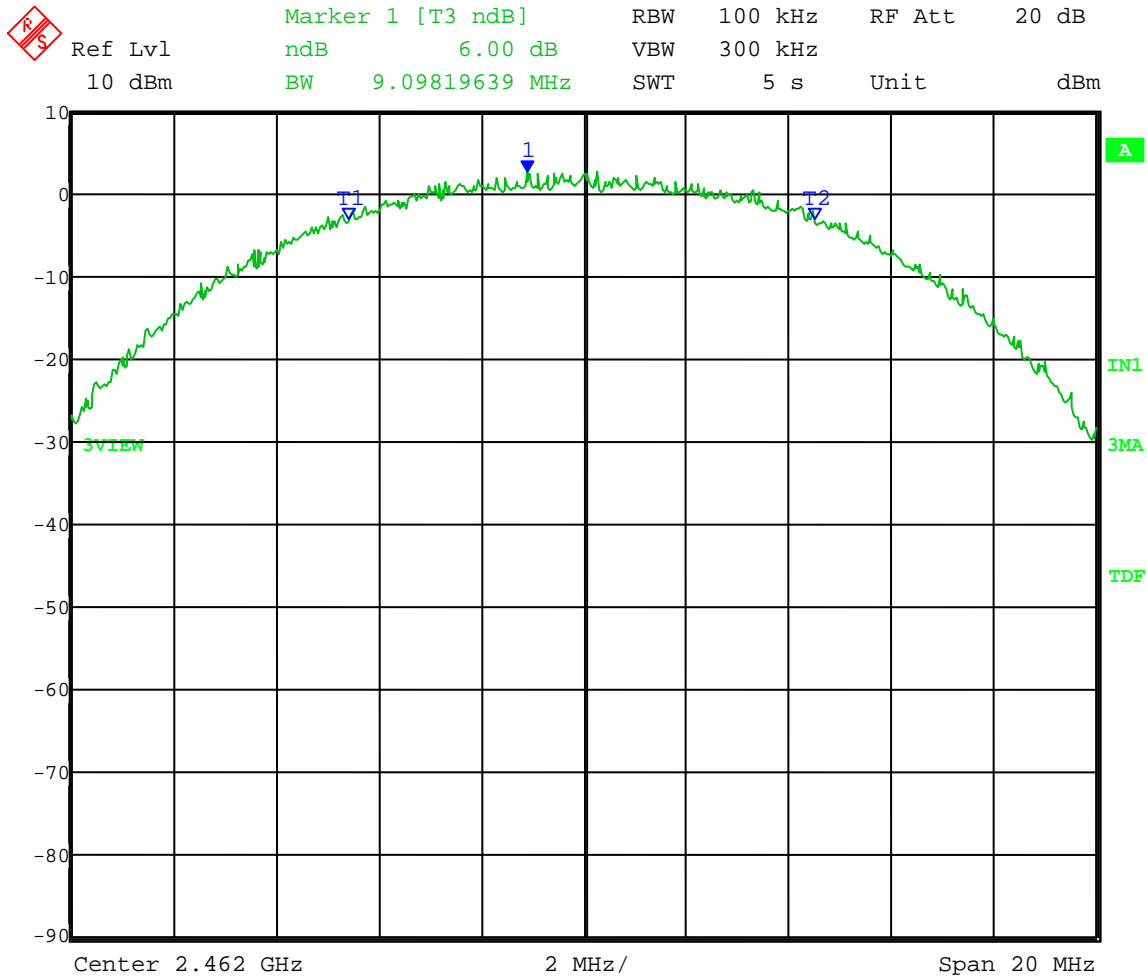
Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

Test Date: 12-12-2011
Company: Koss Corporation
EUT: CAP1.5
Test: 6 dB Bandwidth - Conducted
Operator: Craig B

Comment: **High Channel**: Frequency – 2.462 GHz
802.11b

6 dB Bandwidth = 9.10 MHz



Date: 12.DEC.2011 15:54:14



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Appendix B – Measurement Data

B2.0 Peak Output Power – 802.11g mode

Rule Part: FCC Part 15.247(b)(3)

Test Procedure: Measurement of Digital Transmission Systems Operating under Section 15.247 (March 23, 2005)

Limit: 1 Watt (30 dBm)

Results: Compliant

Notes: The EUT was set to transmit at its maximum power, maximum data rate, and maximum duty cycle. Output Power Option 1 was used for this test. Peak Output power was measured with a broadband power meter and power sensor.



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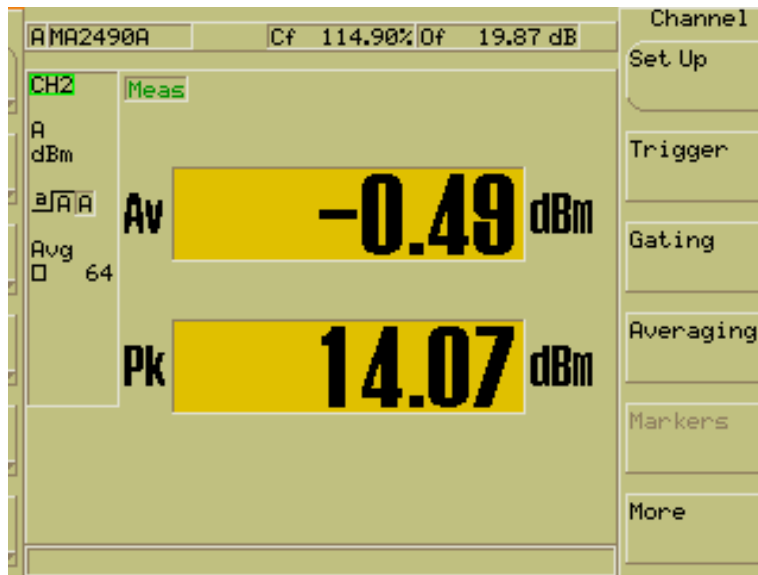
Company: Koss Corporation
Model Tested: STRIVA CAP
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Appendix B – Measurement Data

Test Date: 09-19-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Peak Power Output - Conducted
Operator: Craig B

Comment: **Low Channel**: Frequency – 2.412 GHz
802.11g

Peak Output Power = 14.07 dBm = **25.5 mW**





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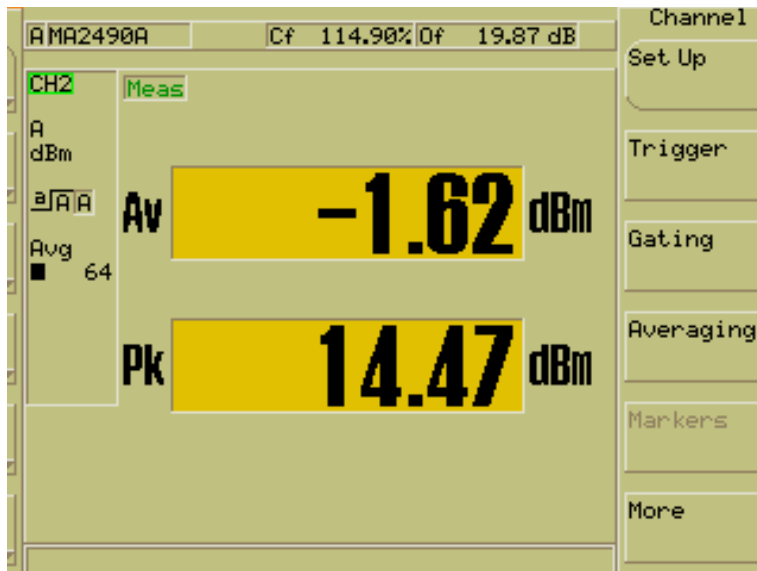
Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

Test Date: 09-19-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Peak Power Output - Conducted
Operator: Craig B

Comment: **Mid Channel**: Frequency – 2.437 GHz
802.11g

Peak Output Power = 14.47 dBm = **28.0 mW**





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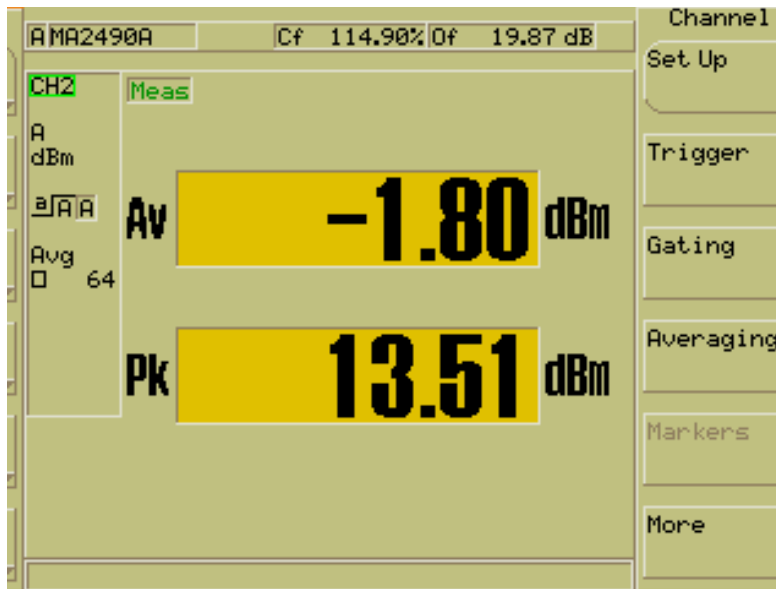
Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

Test Date: 09-19-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Peak Power Output - Conducted
Operator: Craig B

Comment: **High Channel**: Frequency – 2.462 GHz
802.11g

Peak Output Power = 13.51 dBm = **22.4 mW**





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Appendix B – Measurement Data

B2.1 Peak Output Power – 802.11b mode

Rule Part: FCC Part 15.247(b)(3)

Test Procedure: Measurement of Digital Transmission Systems Operating under Section 15.247 (March 23, 2005)

Limit: 1 Watt (30 dBm)

Results: Compliant

Notes: The EUT was set to transmit at its maximum power, maximum data rate, and maximum duty cycle. Output Power Option 1 was used for this test. Peak Output power was measured with a broadband power meter and power sensor.



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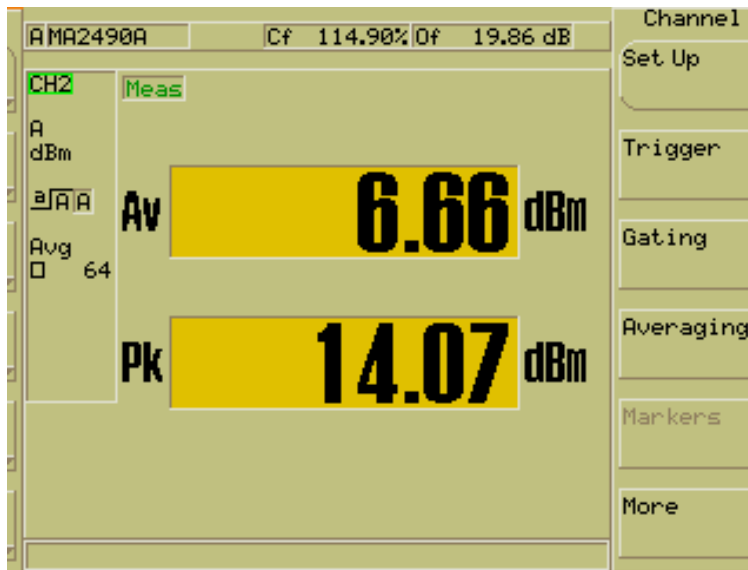
Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

Test Date: 12-13-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Peak Power Output - Conducted
Operator: Craig B

Comment: **Low Channel**: Frequency – 2.412 GHz
802.11b

Peak Output Power = 14.07 dBm = **25.5 mW**





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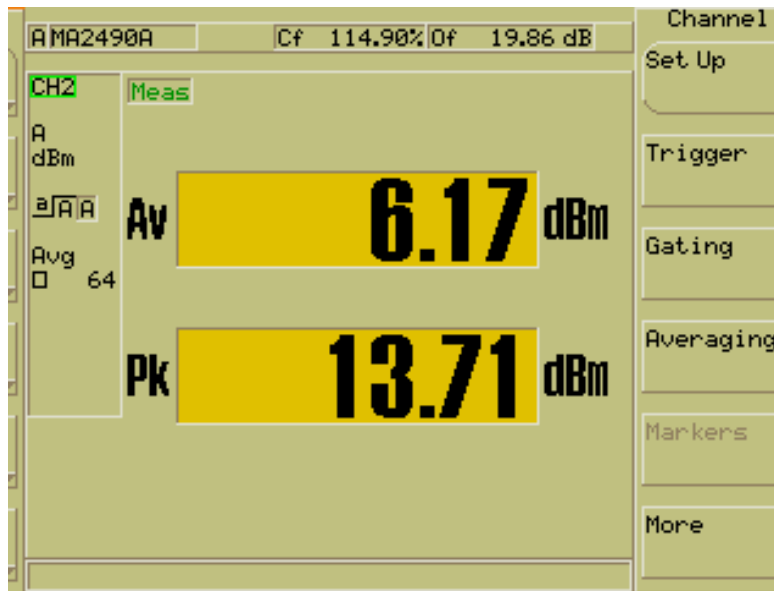
Company: Koss Corporation
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Appendix B – Measurement Data

Test Date: 12-13-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Peak Power Output - Conducted
Operator: Craig B

Comment: **Mid Channel**: Frequency – 2.437 GHz
802.11b

Peak Output Power = 13.71 dBm = **23.5 mW**





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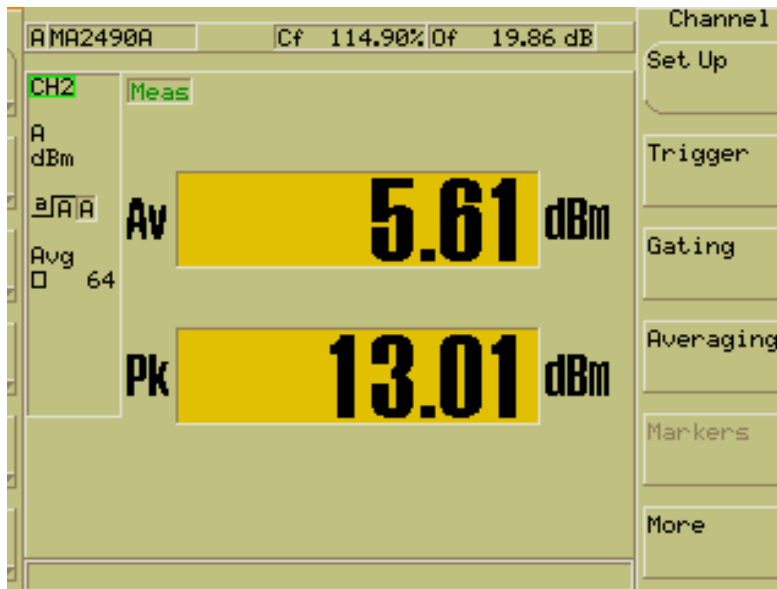
Company: Koss Corporation
Model Tested: STRIVA CAP
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Appendix B – Measurement Data

Test Date: 12-13-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Peak Power Output - Conducted
Operator: Craig B

Comment: **High Channel**: Frequency – 2.462 GHz
802.11b

Peak Output Power = 13.01 dBm = **20.0 mW**





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Appendix B – Measurement Data

B3.0 RF Conducted Spurious Emissions – 802.11g mode

Rule Part: FCC Part 15.247(d)

Test Procedure: Measurement of Digital Transmission Systems Operating under Section 15.247 (March 23, 2005)

Limit: 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. (Device complies with Power Option 1).

Results: Compliant

Notes: The EUT was set to transmit at its maximum power, maximum data rate, and maximum duty cycle. A peak detector was used for this test.



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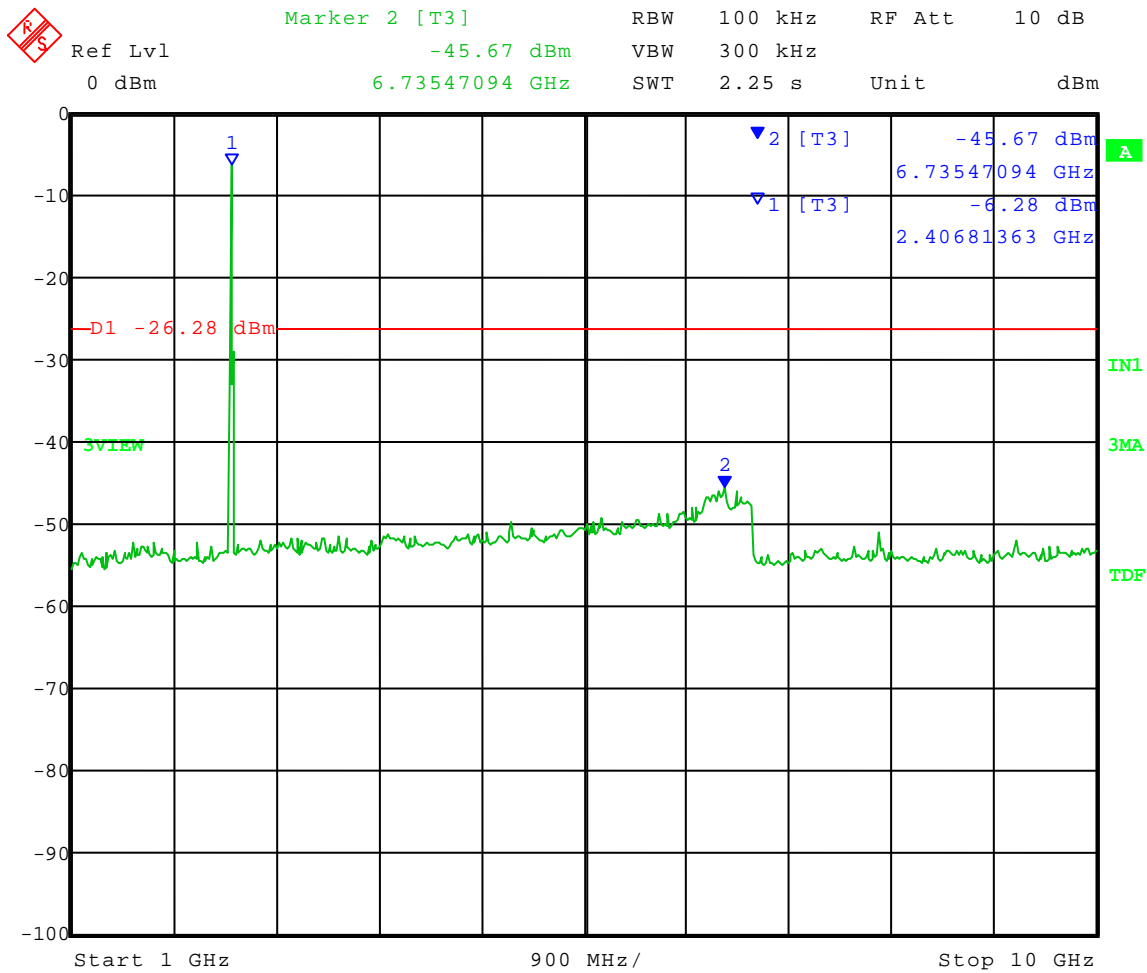
Appendix B – Measurement Data

Test Date: 09-21-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Spurious Emissions - Conducted
 Operator: Craig B

Comment: **Low Channel** Transmit = 2.412 GHz
 802.11g

Frequency Range: 1 to 10 GHz
 Limit = -26.28 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 21.SEP.2011 09:46:25



Company: Koss Corporation
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 Report Number: 17289

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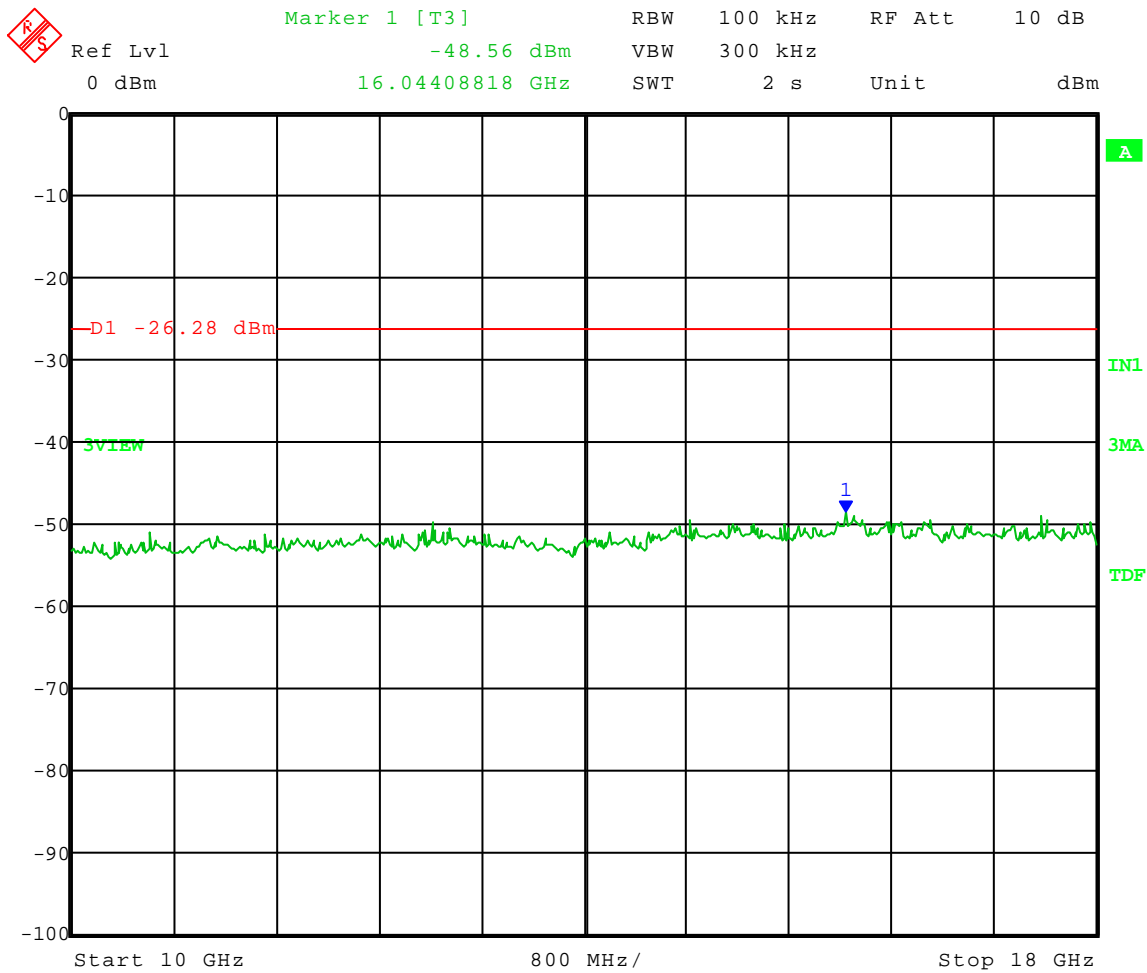
Appendix B – Measurement Data

Test Date: 09-21-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Spurious Emissions - Conducted
 Operator: Craig B

Comment: **Low Channel** Transmit = 2.412 GHz
 802.11g

Frequency Range: 10 to 18 GHz
 Limit = -26.28 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 21.SEP.2011 09:47:51



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

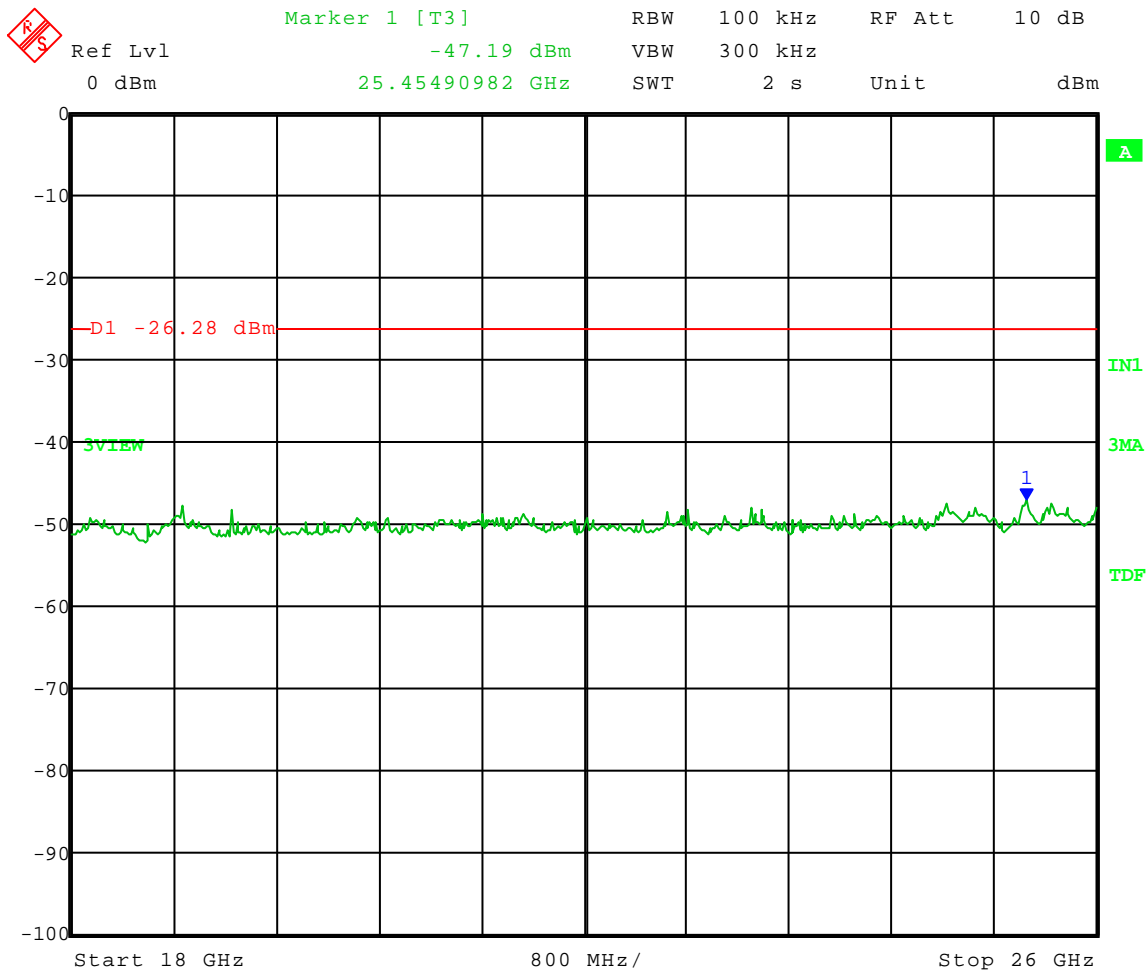
Appendix B – Measurement Data

Test Date: 09-21-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: **Low Channel** Transmit = 2.412 GHz
802.11g

Frequency Range: 18 to 26 GHz
Limit = -26.28 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 21.SEP.2011 09:49:02



Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

166 South Carter, Genoa City, WI 53128

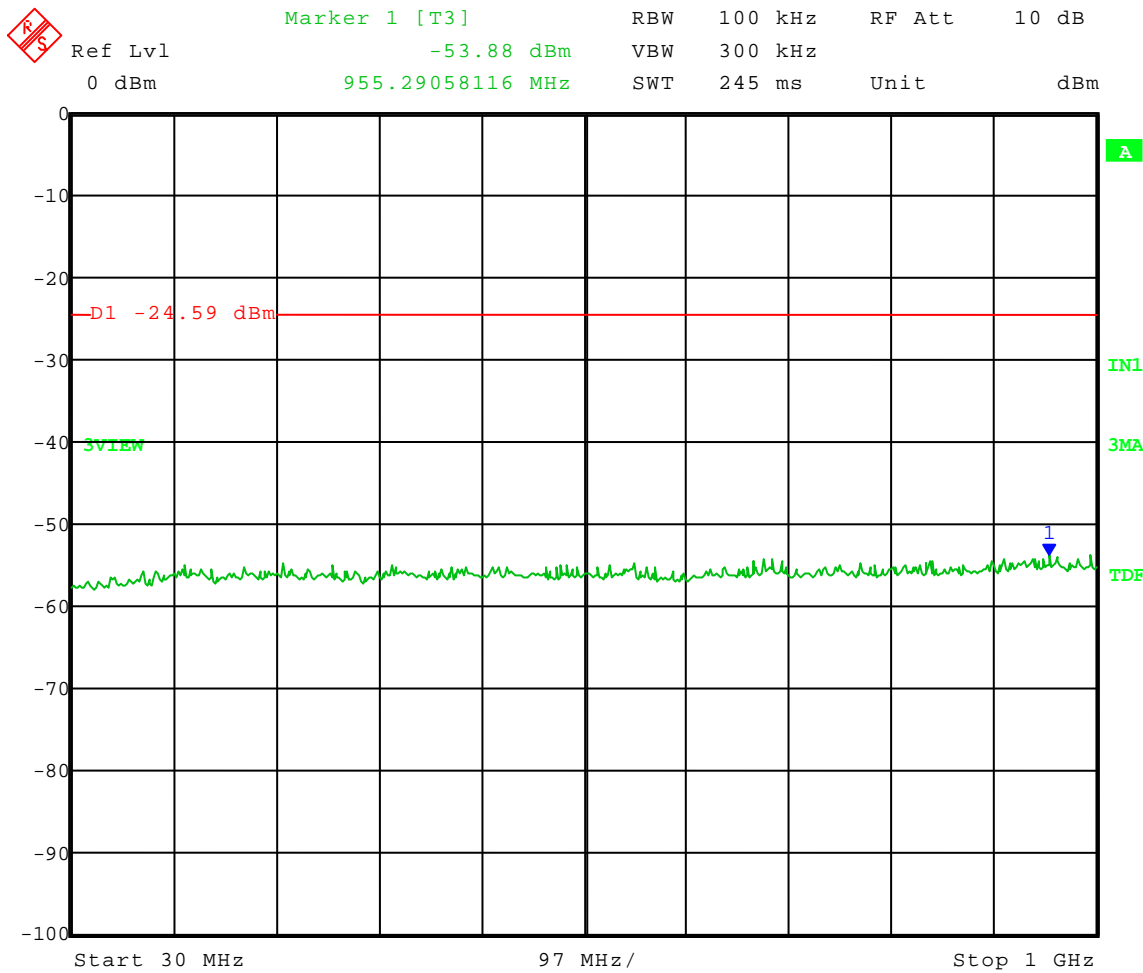
Appendix B – Measurement Data

Test Date: 09-21-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Spurious Emissions - Conducted
 Operator: Craig B

Comment: **Middle Channel** Transmit = 2.437 GHz
 802.11g

Frequency Range: 30 to 1000 MHz
 Limit = -24.59 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 21.SEP.2011 09:56:02



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

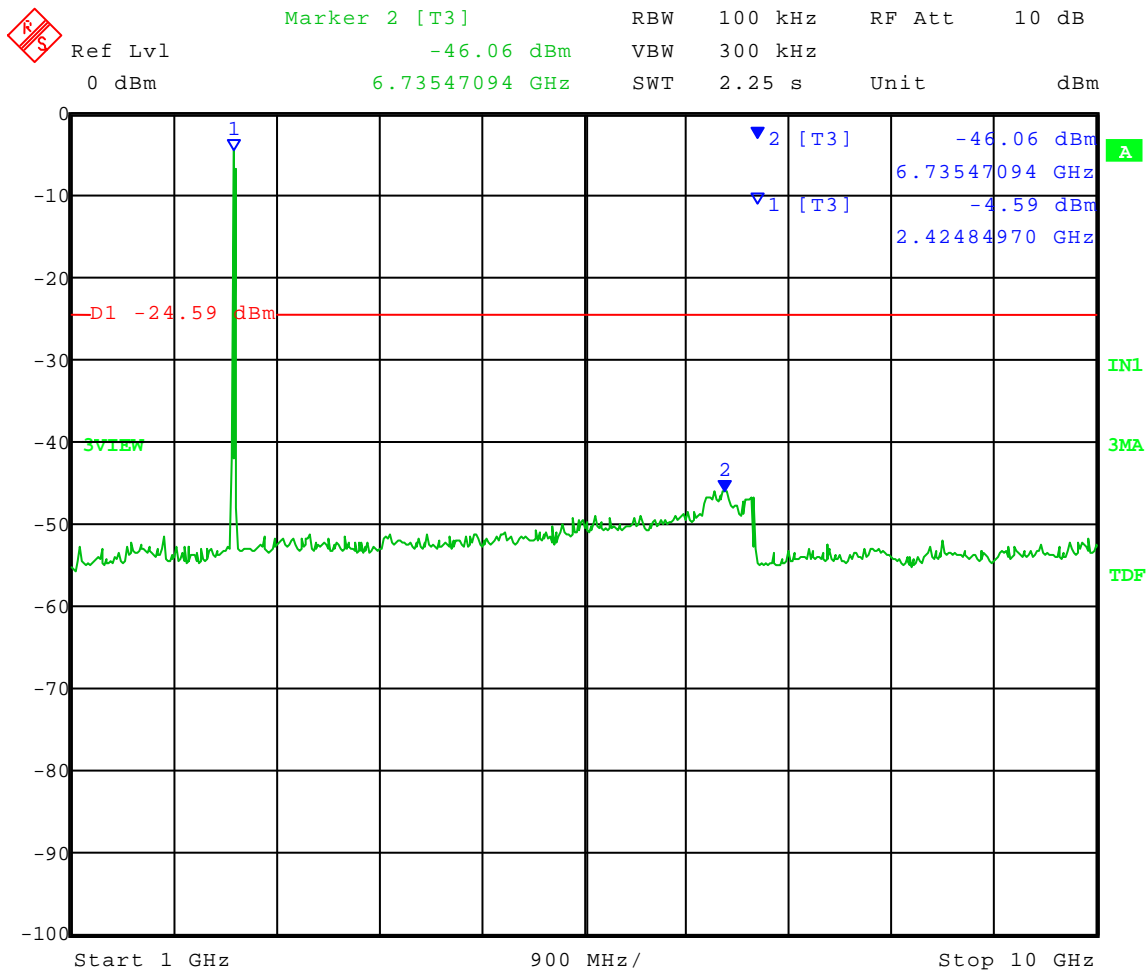
Appendix B – Measurement Data

Test Date: 09-21-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: **Middle Channel** Transmit = 2.437 GHz
802.11g

Frequency Range: 1 to 10 GHz
Limit = -24.59 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 21.SEP.2011 09:52:28



Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

166 South Carter, Genoa City, WI 53128

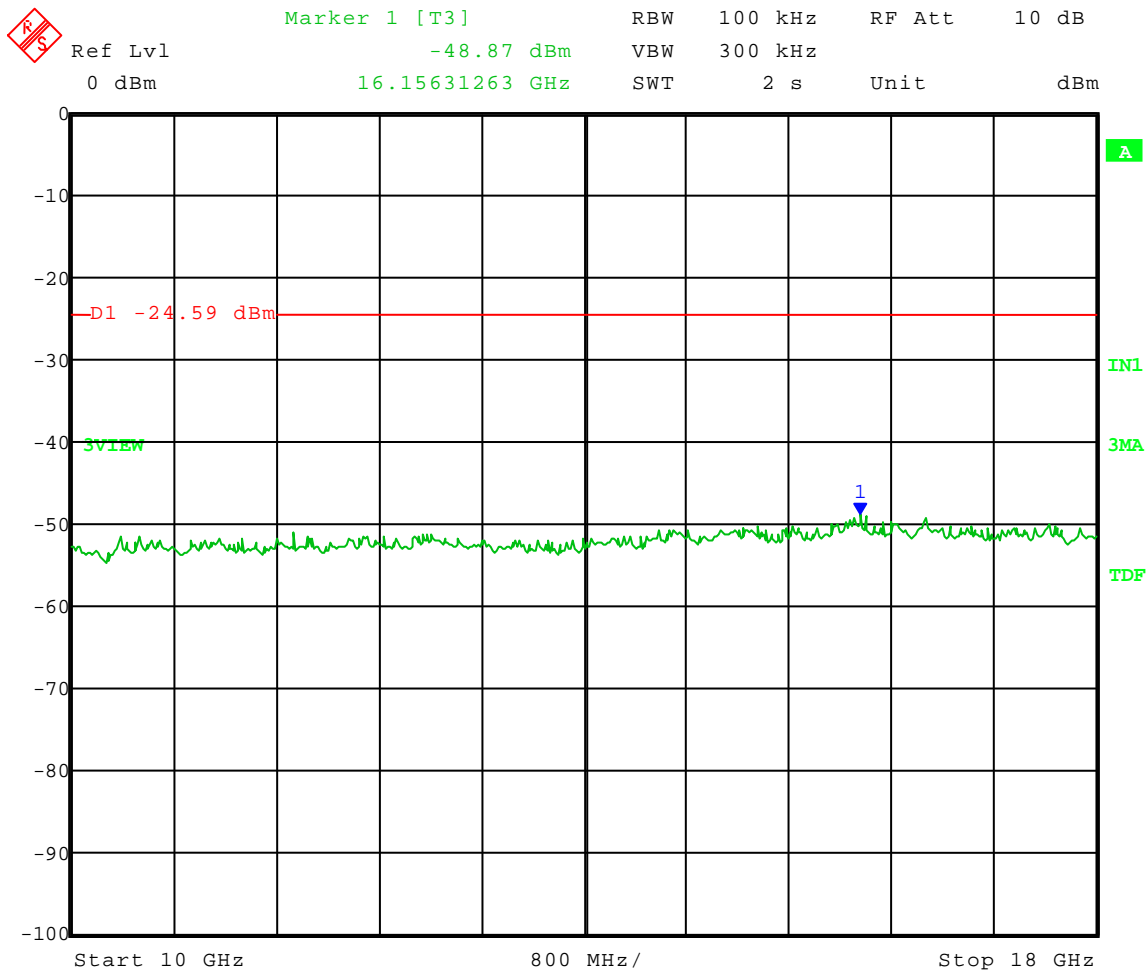
Appendix B – Measurement Data

Test Date: 09-21-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Spurious Emissions - Conducted
 Operator: Craig B

Comment: **Middle Channel** Transmit = 2.437 GHz
 802.11g

Frequency Range: 10 to 18 GHz
 Limit = -24.59 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 21.SEP.2011 09:53:44



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

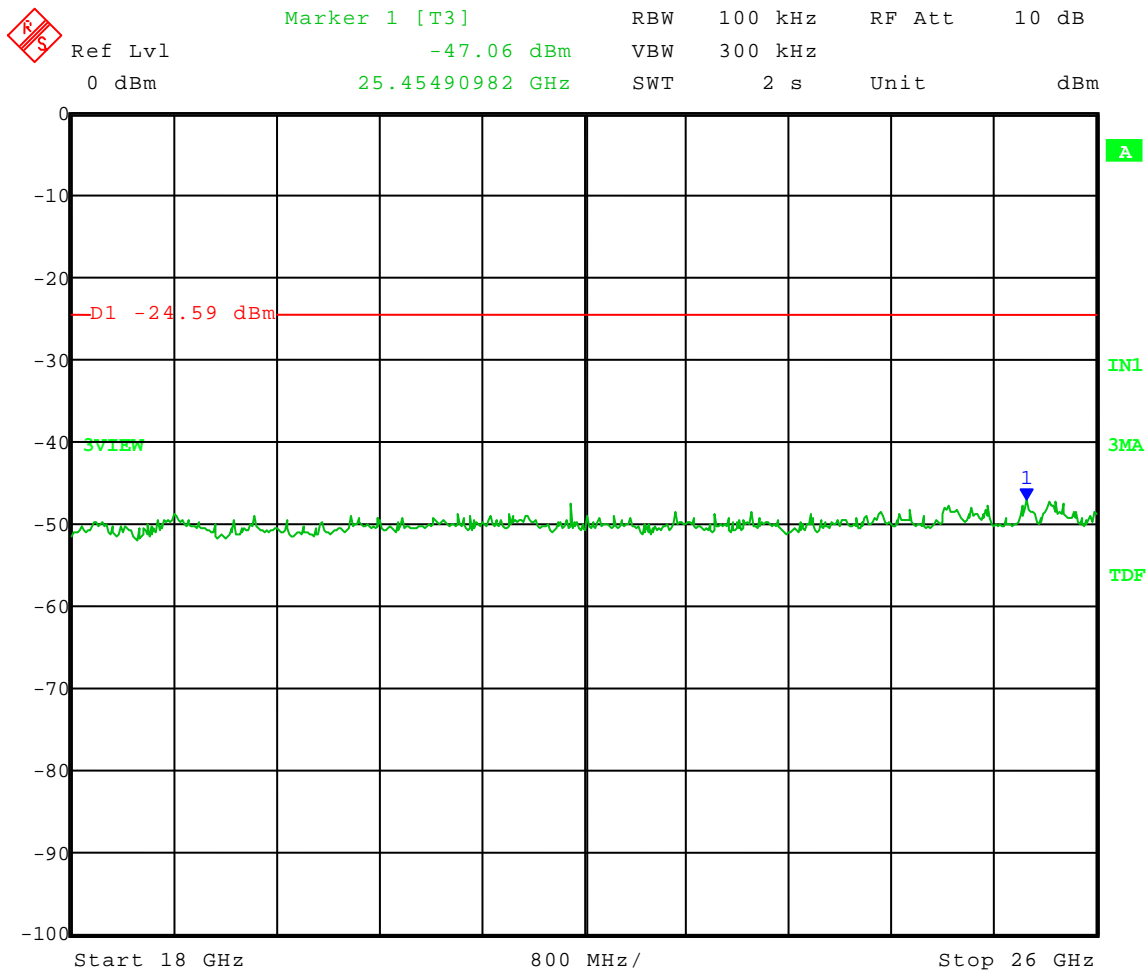
Appendix B – Measurement Data

Test Date: 09-21-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: **Middle Channel** Transmit = 2.437 GHz
802.11g

Frequency Range: 18 to 26 GHz
Limit = -24.59 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 21.SEP.2011 09:54:56



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

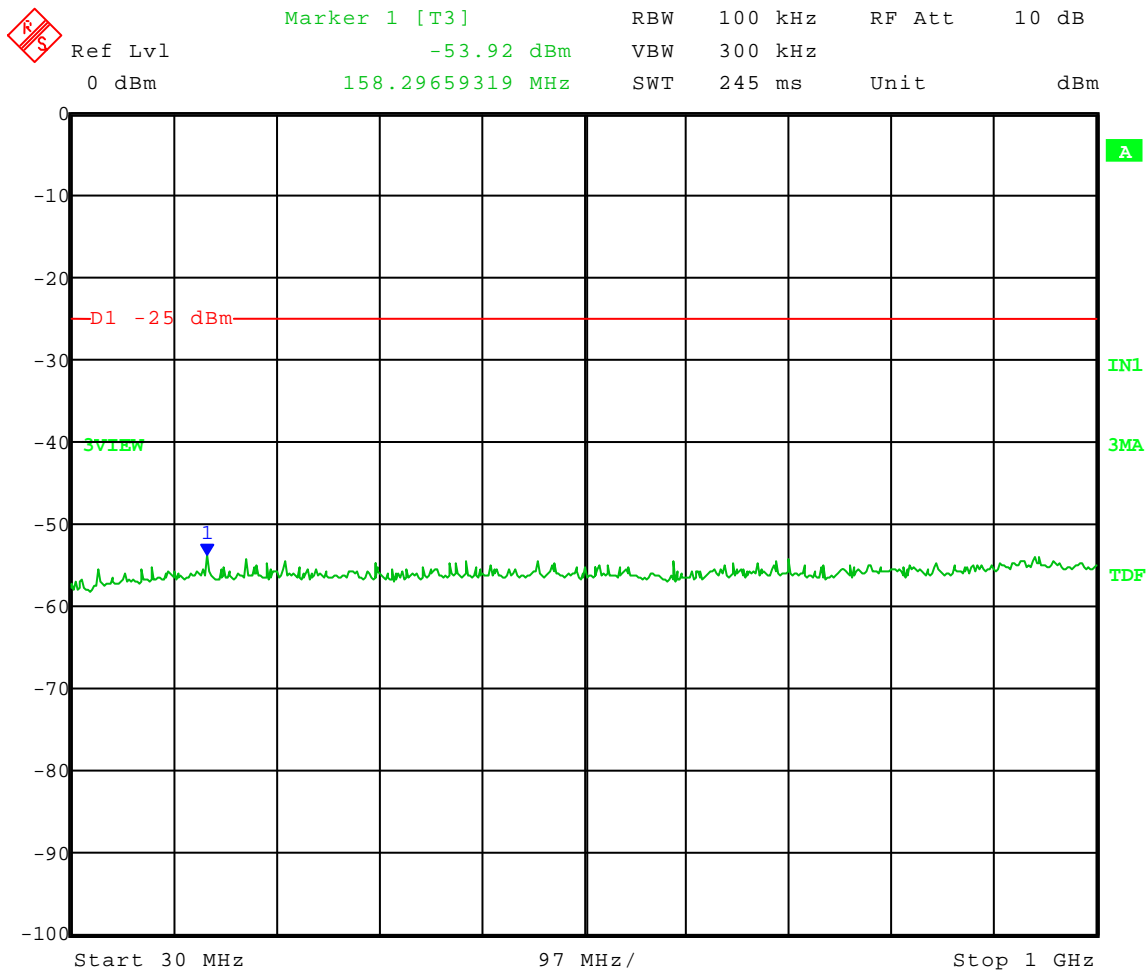
Appendix B – Measurement Data

Test Date: 09-21-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: High Channel Transmit = 2.462 GHz
802.11g

Frequency Range: 30 to 1000 MHz
Limit = -25.00 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 21.SEP.2011 10:01:24



Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

166 South Carter, Genoa City, WI 53128

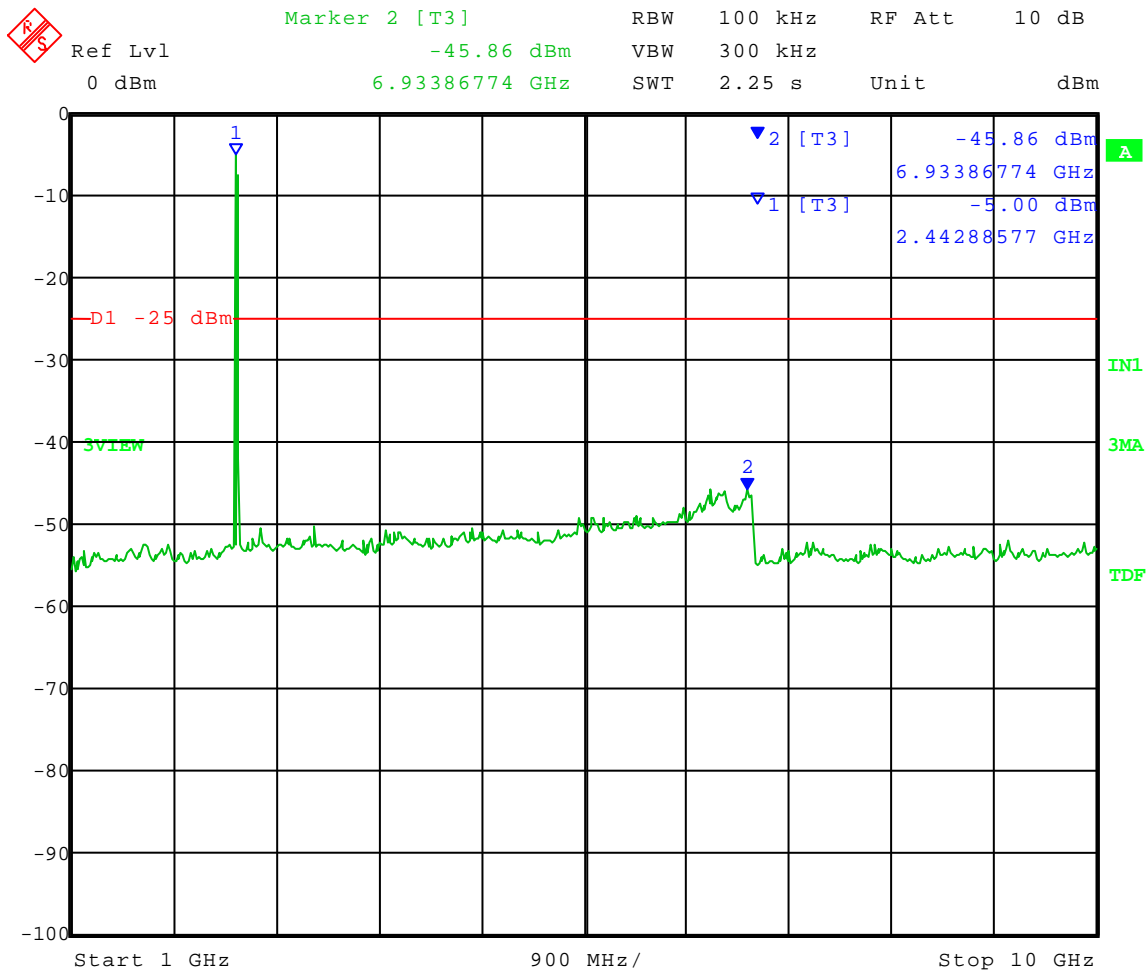
Appendix B – Measurement Data

Test Date: 09-21-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Spurious Emissions - Conducted
 Operator: Craig B

Comment: High Channel Transmit = 2.462 GHz
 802.11g

Frequency Range: 1 to 10 GHz
 Limit = -25.00 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 21.SEP.2011 09:58:01



Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

166 South Carter, Genoa City, WI 53128

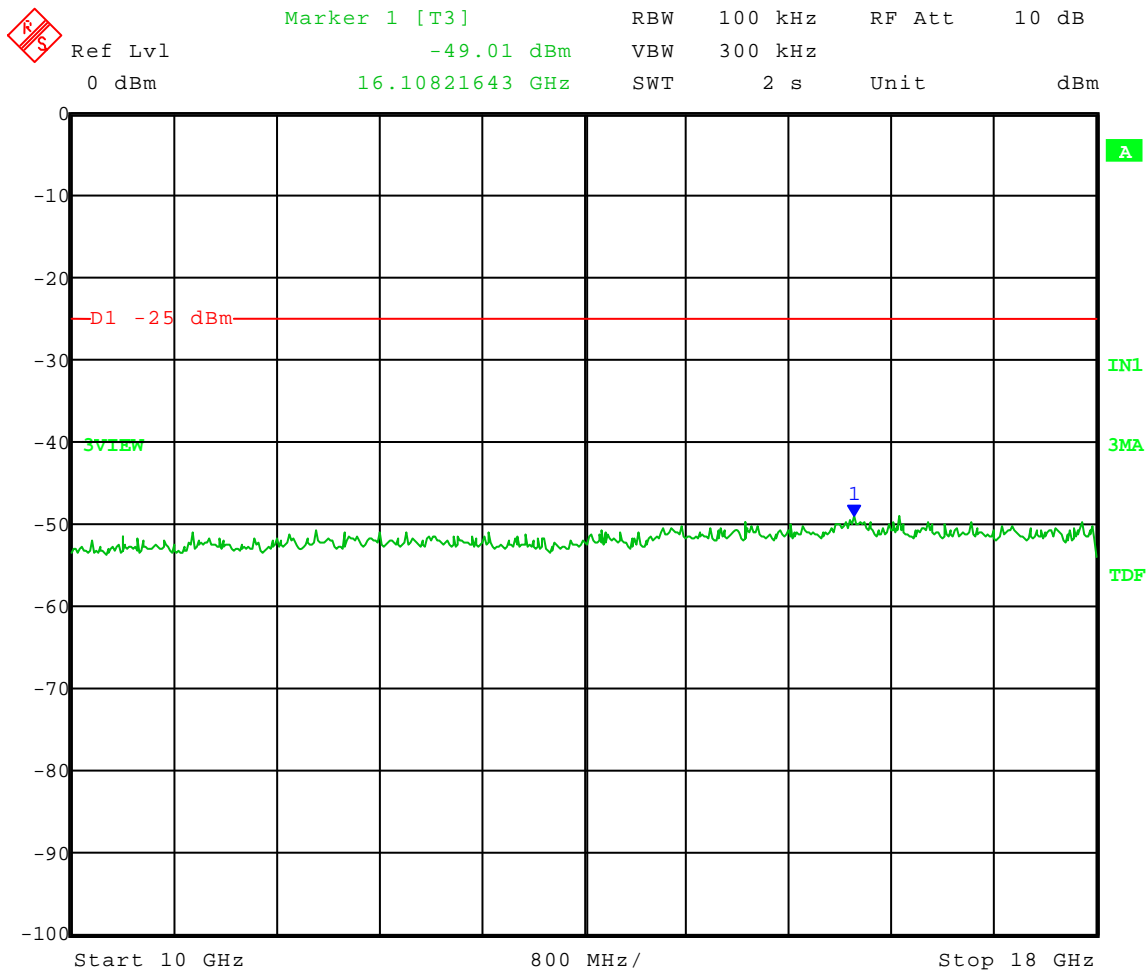
Appendix B – Measurement Data

Test Date: 09-21-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Spurious Emissions - Conducted
 Operator: Craig B

Comment: **High Channel** Transmit = 2.462 GHz
 802.11g

Frequency Range: 10 to 18 GHz
 Limit = -25.00 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 21.SEP.2011 09:59:11



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

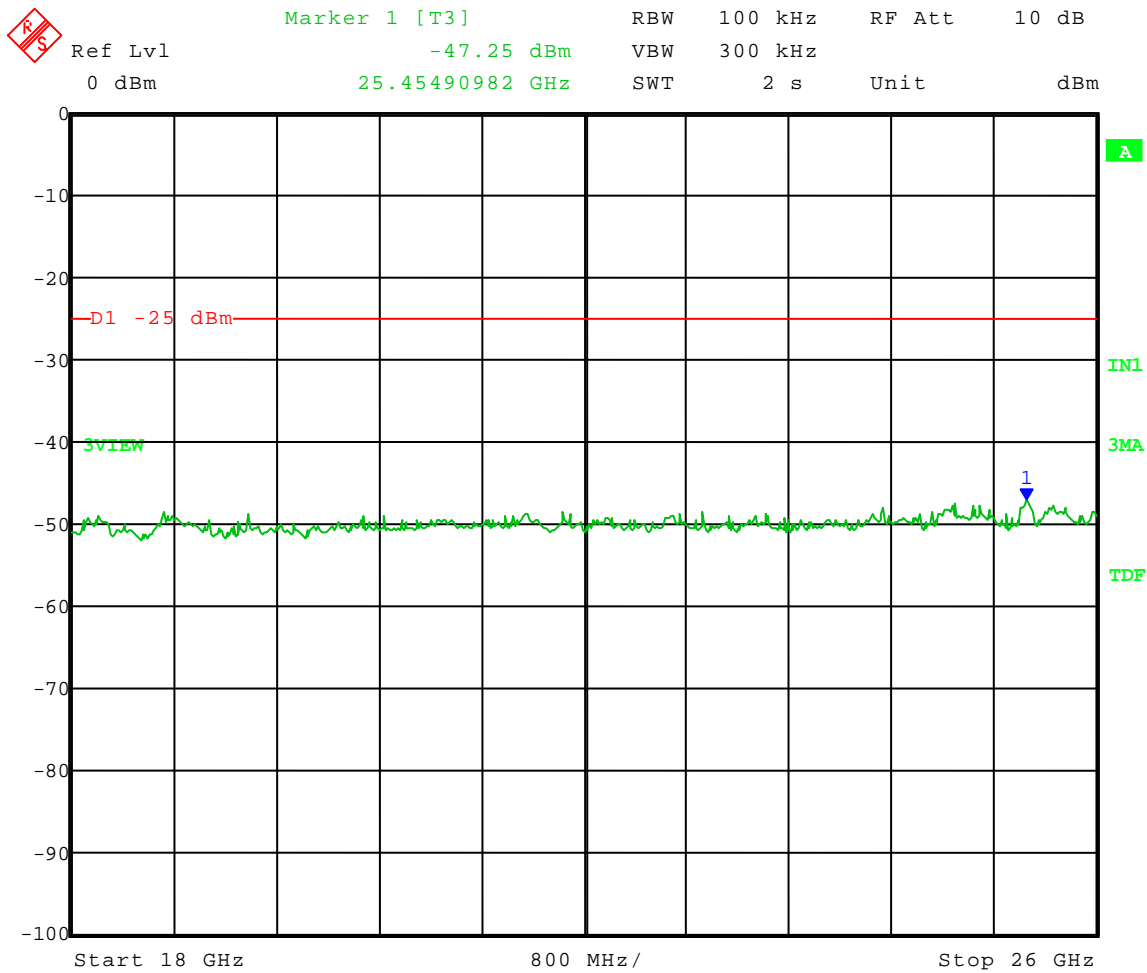
Appendix B – Measurement Data

Test Date: 09-21-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: **High Channel** Transmit = 2.462 GHz
802.11g

Frequency Range: 18 to 26 GHz
Limit = -25.00 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 21.SEP.2011 10:00:21



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

B3.1 RF Conducted Spurious Emissions – 802.11b mode

Rule Part: FCC Part 15.247(d)

Test Procedure: Measurement of Digital Transmission Systems Operating under Section 15.247 (March 23, 2005)

Limit: 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. (Device complies with Power Option 1).

Results: Compliant

Notes: The EUT was set to transmit at its maximum power, maximum data rate, and maximum duty cycle. A peak detector was used for this test.



Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

166 South Carter, Genoa City, WI 53128

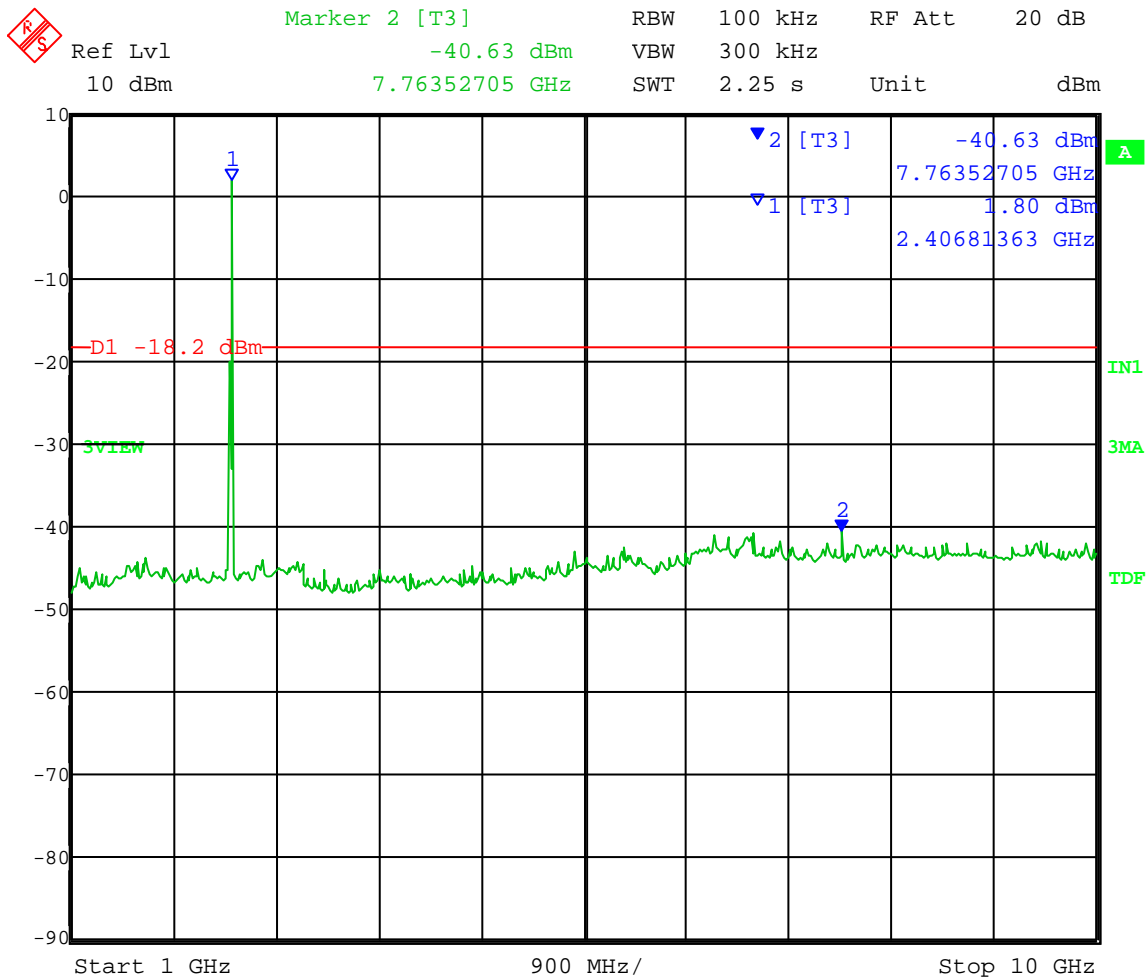
Appendix B – Measurement Data

Test Date: 12-12-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Spurious Emissions - Conducted
 Operator: Craig B

Comment: **Low Channel** Transmit = 2.412 GHz
 802.11b

Frequency Range: 1 to 10 GHz
 Limit = -18.20 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 12.DEC.2011 15:01:30



Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

166 South Carter, Genoa City, WI 53128

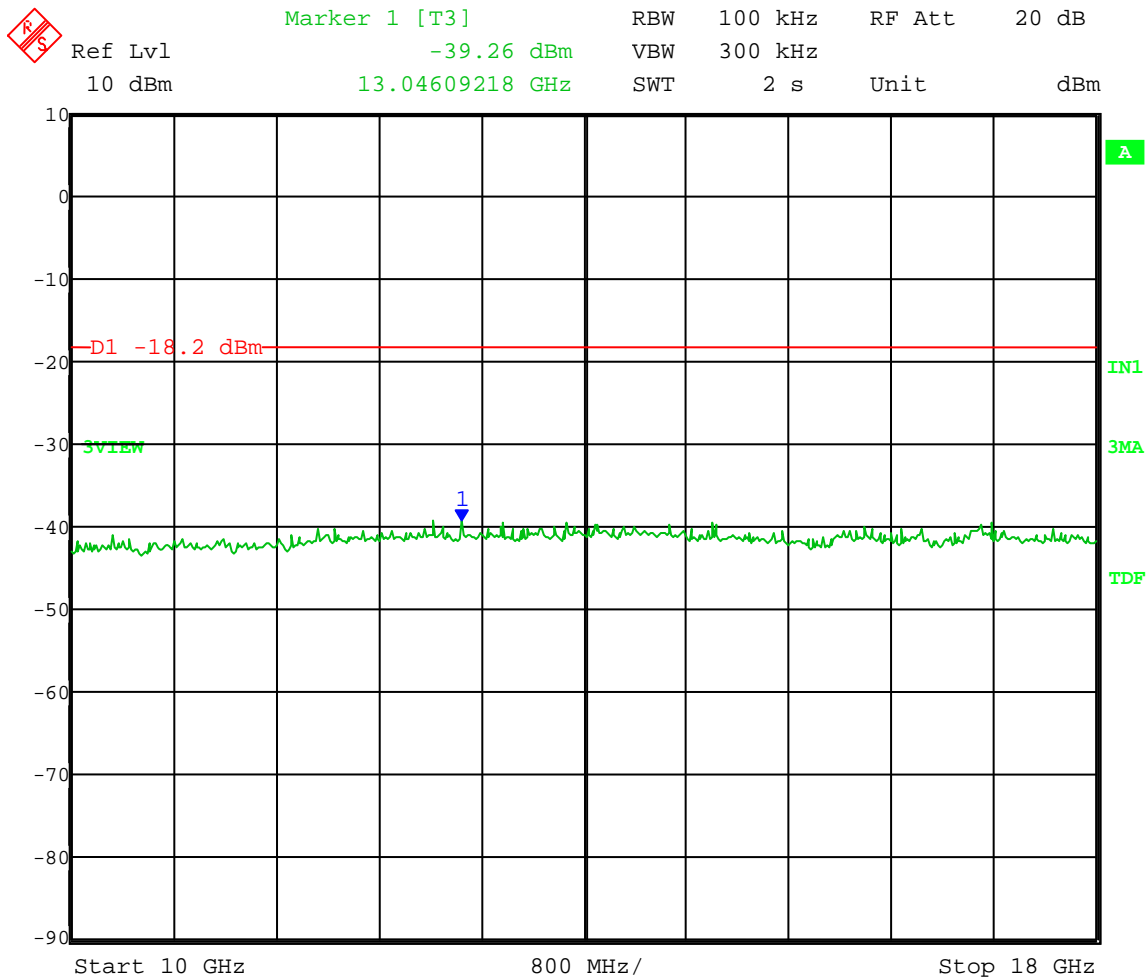
Appendix B – Measurement Data

Test Date: 12-12-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Spurious Emissions - Conducted
 Operator: Craig B

Comment: **Low Channel** Transmit = 2.412 GHz
 802.11b

Frequency Range: 10 to 18 GHz
 Limit = -18.20 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 12.DEC.2011 15:03:33



Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

166 South Carter, Genoa City, WI 53128

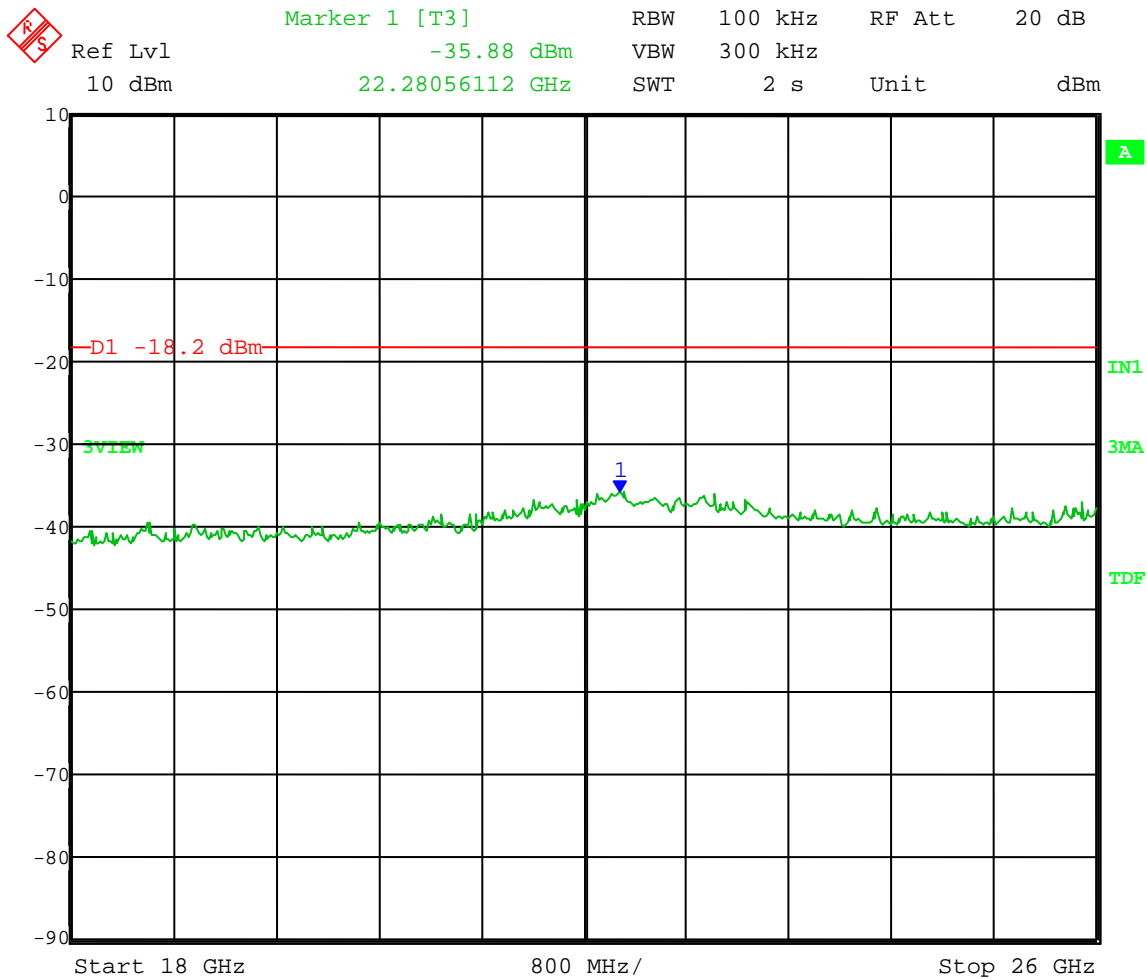
Appendix B – Measurement Data

Test Date: 12-12-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Spurious Emissions - Conducted
 Operator: Craig B

Comment: **Low Channel** Transmit = 2.412 GHz
 802.11b

Frequency Range: 18 to 26 GHz
 Limit = -18.20 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 12.DEC.2011 15:05:16



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

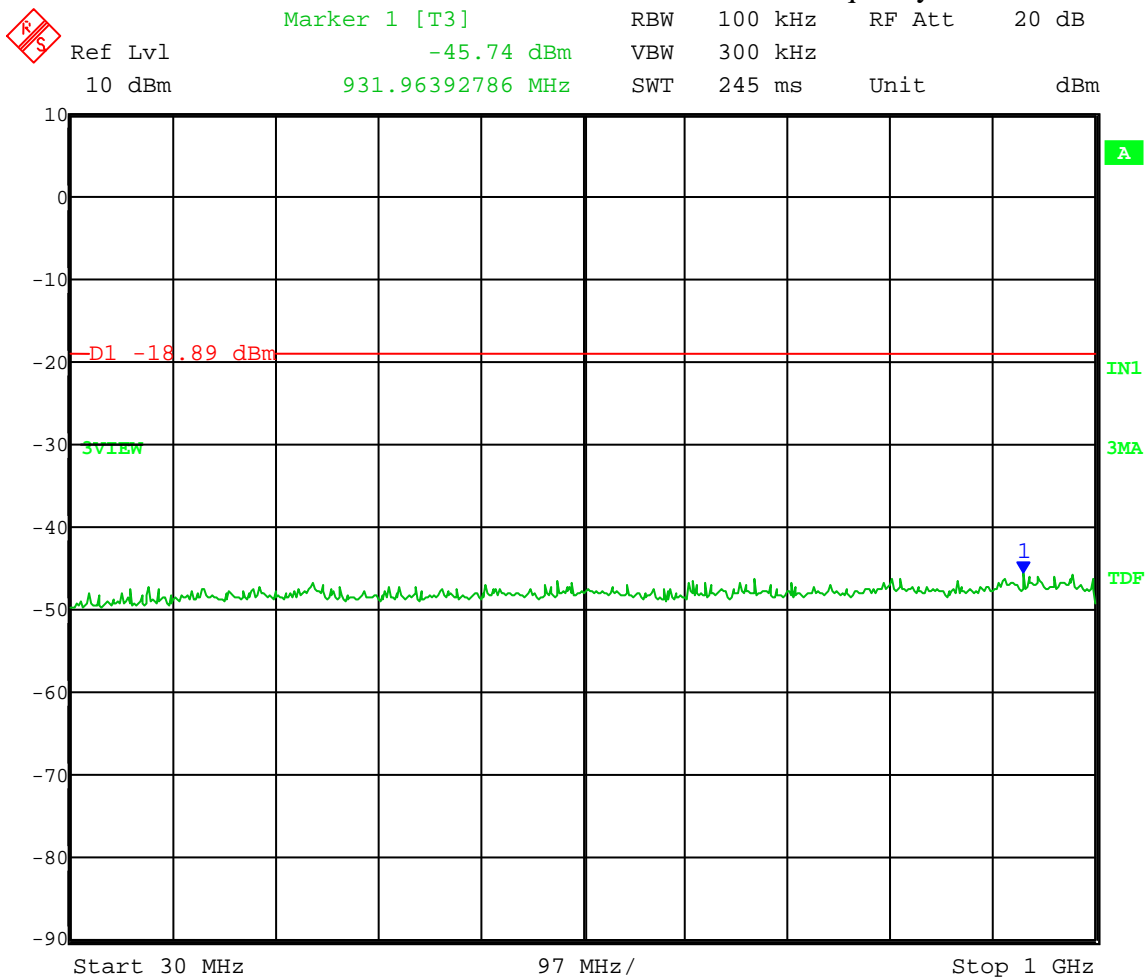
Appendix B – Measurement Data

Test Date: 12-13-2011
Company: Koss Corporation
EUT: CAPI.5
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: Middle Channel Transmit = 2.437 GHz
802.11b

Frequency Range: 30 to 1000 MHz
Limit = -18.89 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 13.DEC.2011 08:58:26



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

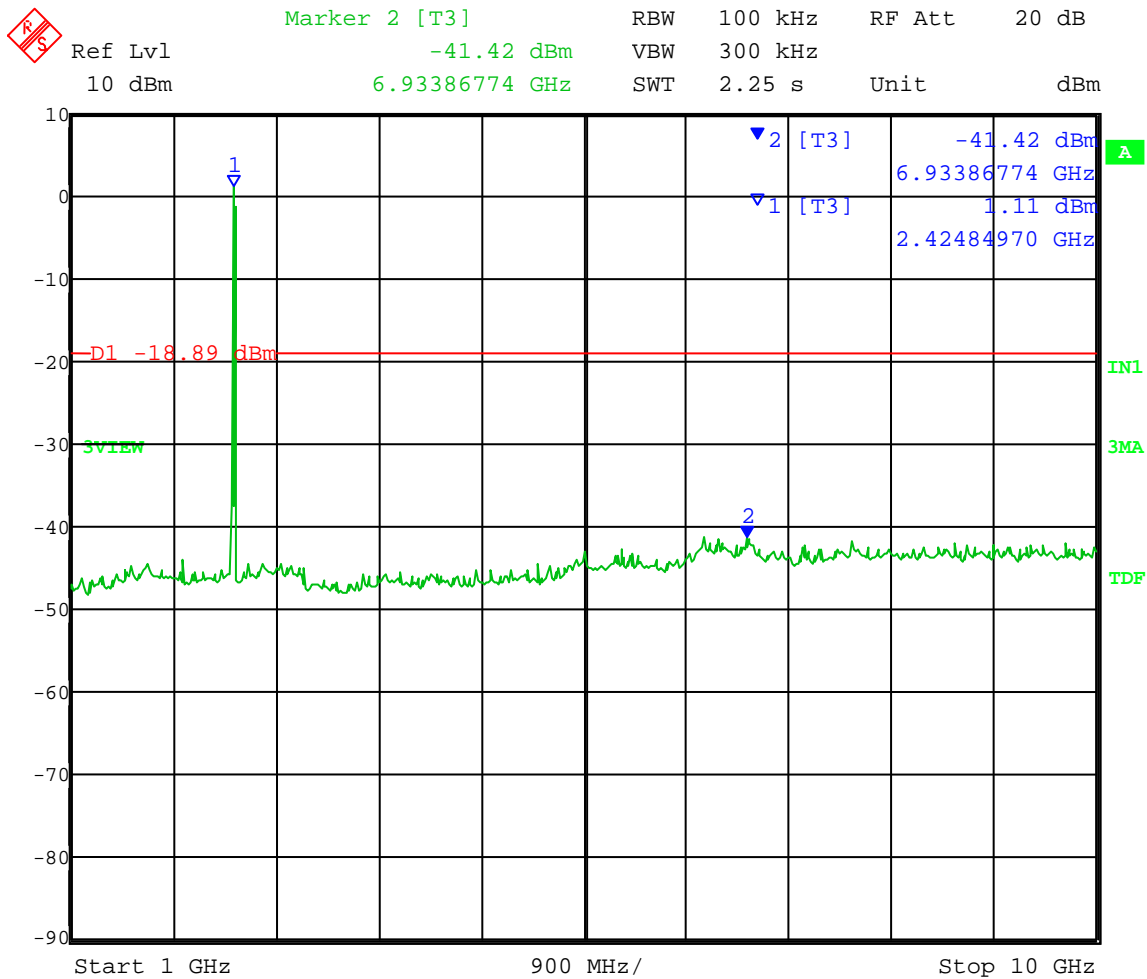
Appendix B – Measurement Data

Test Date: 12-13-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: **Middle Channel** Transmit = 2.437 GHz
802.11b

Frequency Range: 1 to 10 GHz
Limit = -18.89 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 13.DEC.2011 08:53:26



Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

166 South Carter, Genoa City, WI 53128

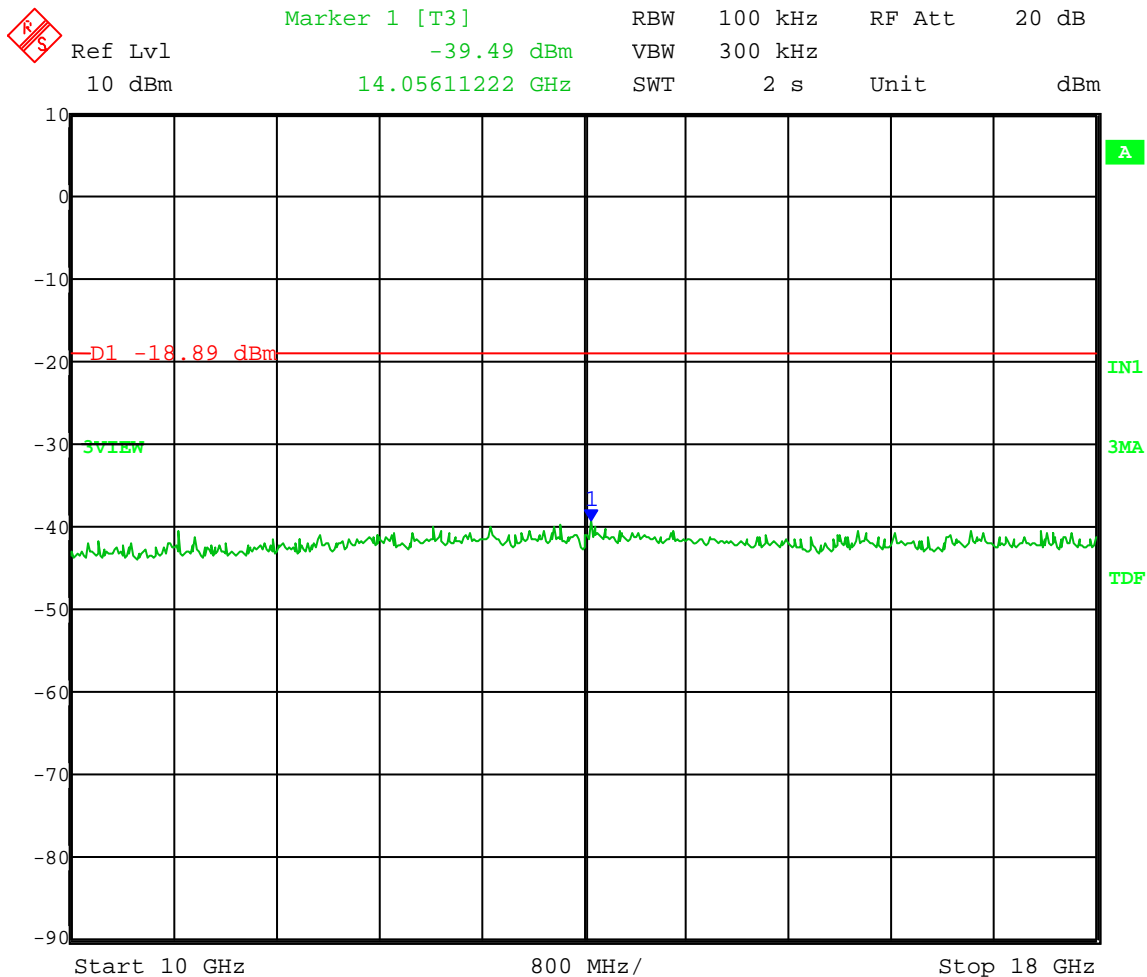
Appendix B – Measurement Data

Test Date: 12-13-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Spurious Emissions - Conducted
 Operator: Craig B

Comment: **Middle Channel** Transmit = 2.437 GHz
 802.11b

Frequency Range: 10 to 18 GHz
 Limit = -18.89 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 13.DEC.2011 08:54:54



Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

166 South Carter, Genoa City, WI 53128

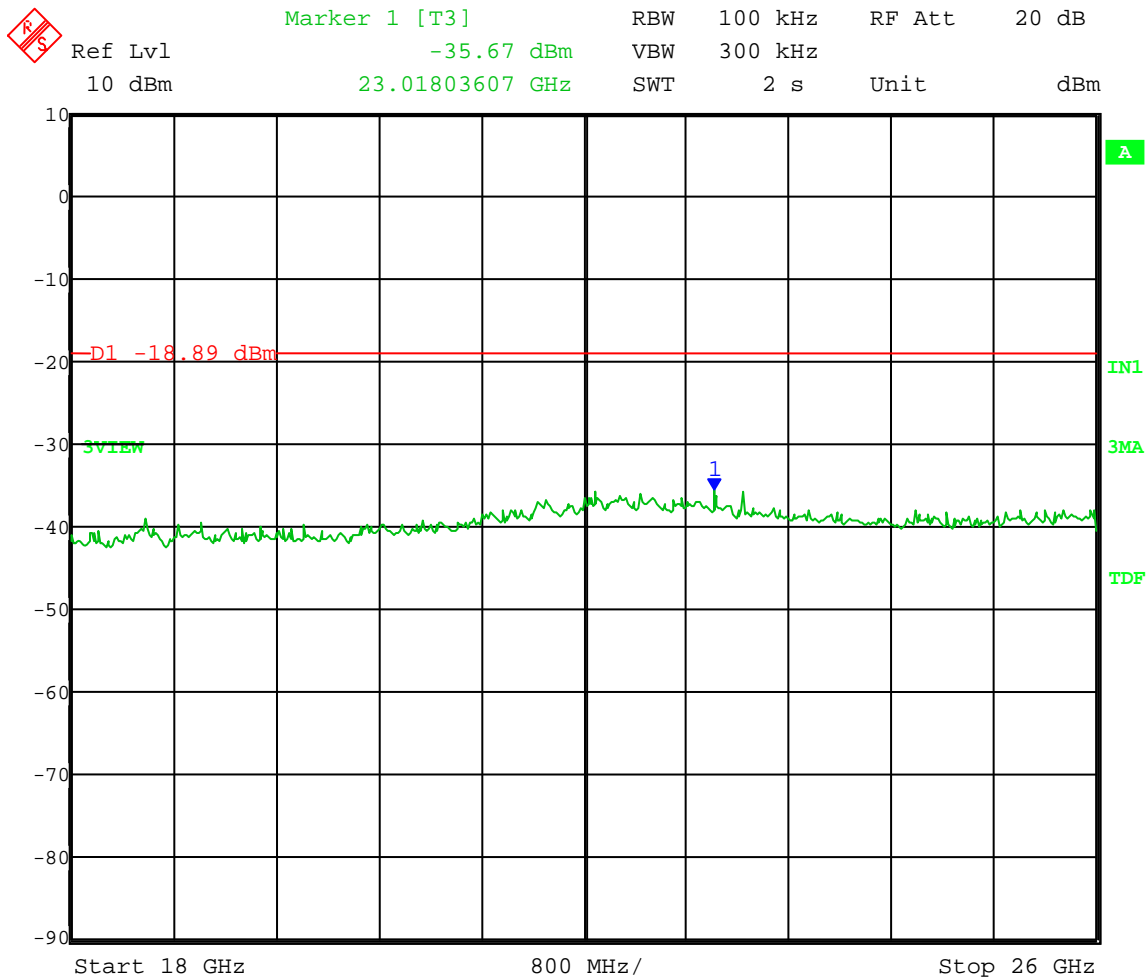
Appendix B – Measurement Data

Test Date: 12-13-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Spurious Emissions - Conducted
 Operator: Craig B

Comment: **Middle Channel** Transmit = 2.437 GHz
 802.11b

Frequency Range: 18 to 26 GHz
 Limit = -18.89 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 13.DEC.2011 08:56:24



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

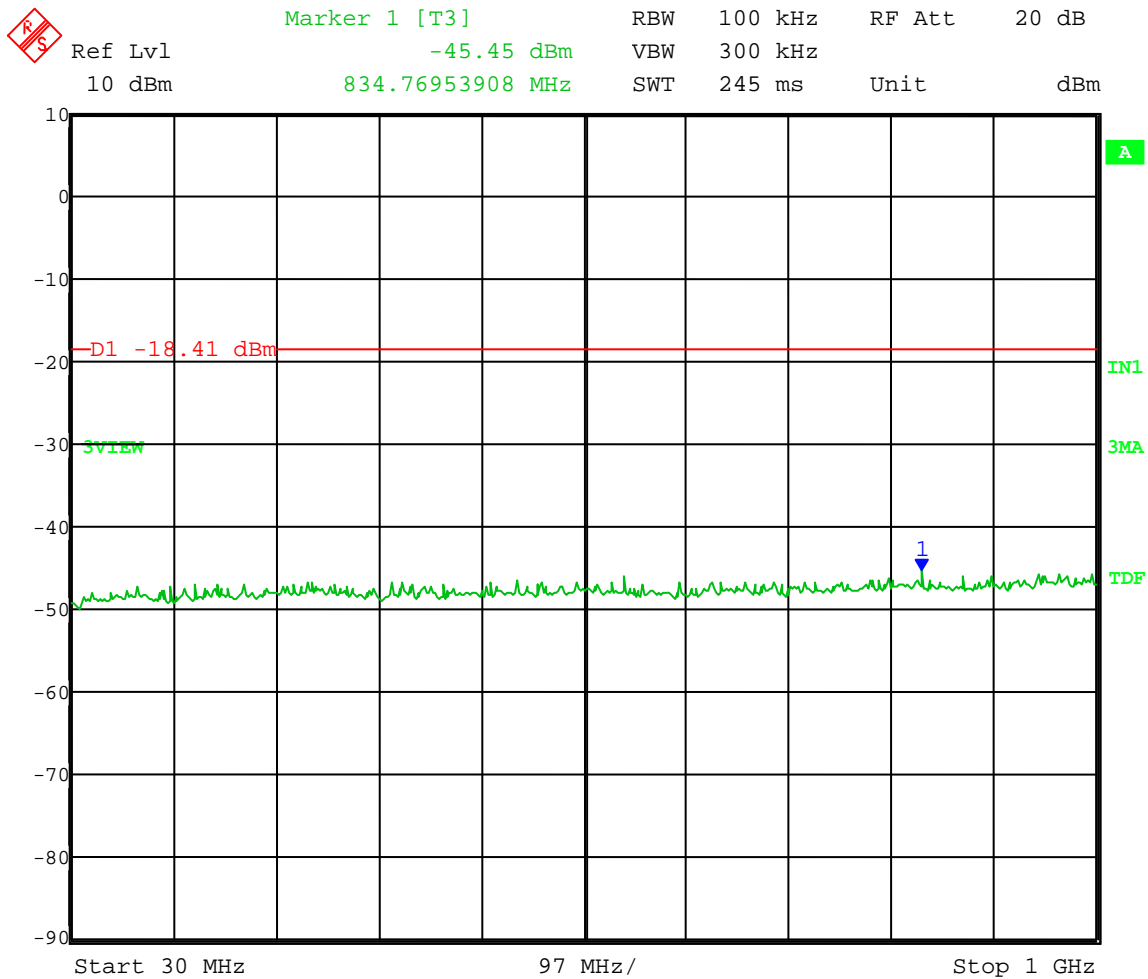
Appendix B – Measurement Data

Test Date: 12-12-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Spurious Emissions - Conducted
Operator: Craig B

Comment: High Channel Transmit = 2.462 GHz
802.11b

Frequency Range: 30 to 1000 MHz
Limit = -18.41 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 12.DEC.2011 16:03:57



Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

166 South Carter, Genoa City, WI 53128

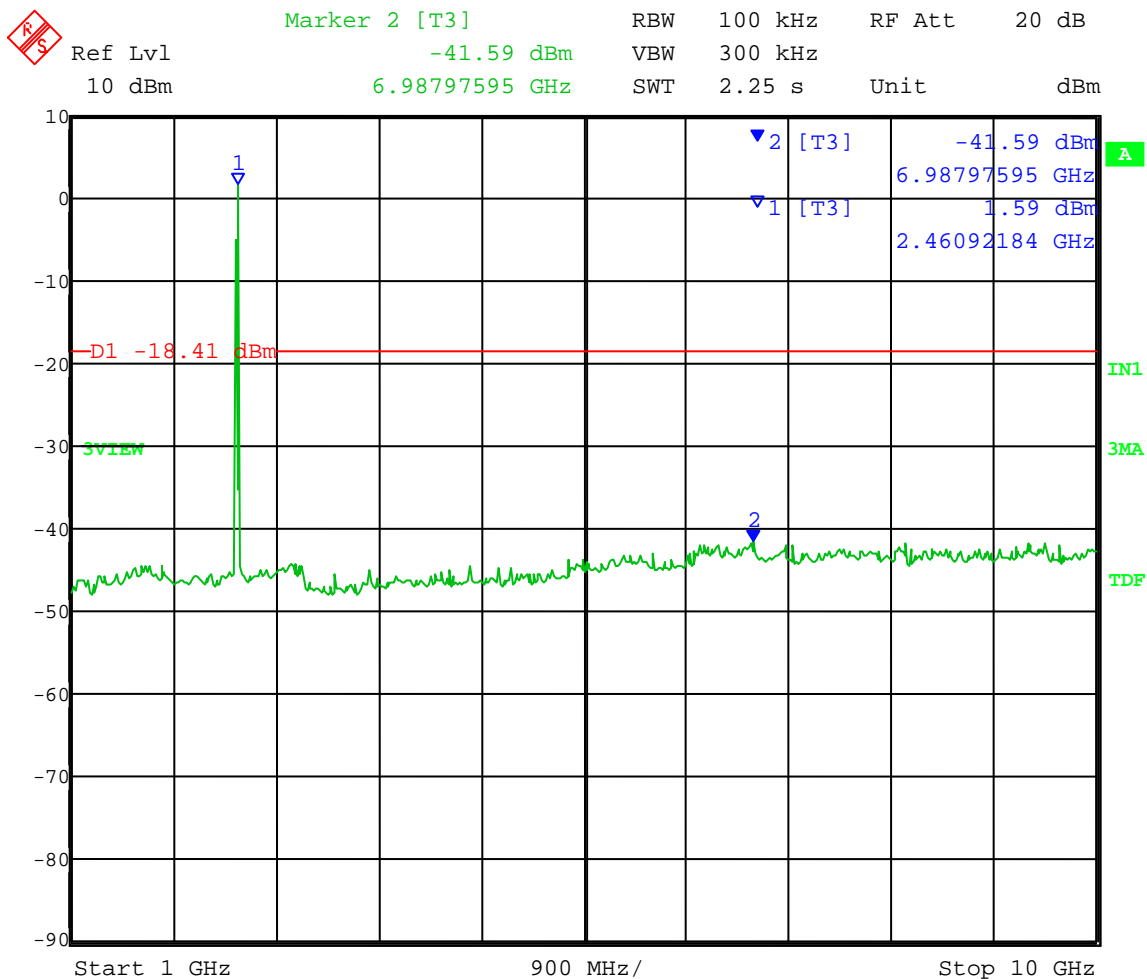
Appendix B – Measurement Data

Test Date: 12-12-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Spurious Emissions - Conducted
 Operator: Craig B

Comment: **High Channel** Transmit = 2.462 GHz
 802.11b

Frequency Range: 1 to 10 GHz
 Limit = -18.41 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 12.DEC.2011 15:59:28



Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

166 South Carter, Genoa City, WI 53128

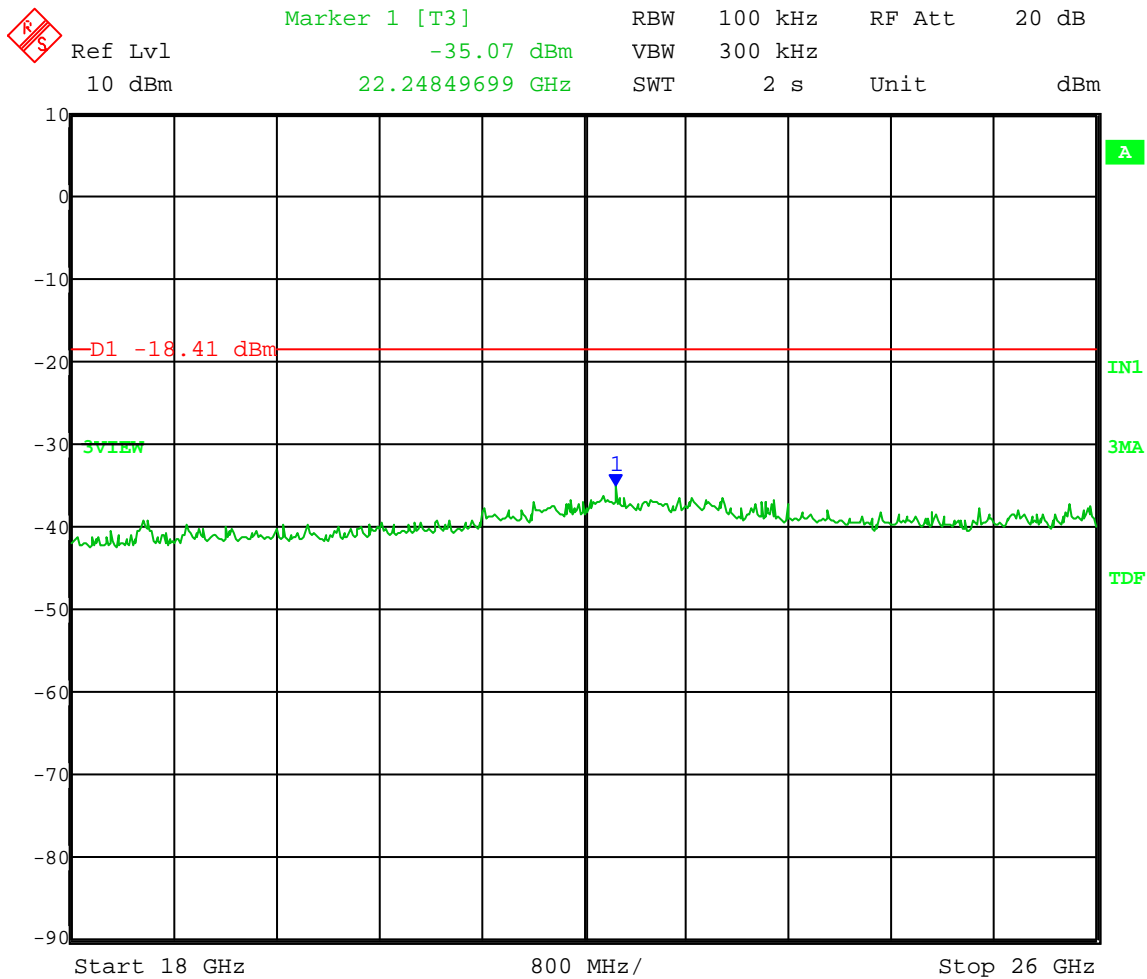
Appendix B – Measurement Data

Test Date: 12-12-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Spurious Emissions - Conducted
 Operator: Craig B

Comment: **High Channel** Transmit = 2.462 GHz
 802.11b

Frequency Range: 18 to 26 GHz
 Limit = -18.41 dBm

All Spurious Emissions at Least 20 dB below Peak Level of In Band Frequency



Date: 12.DEC.2011 16:01:59



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

B4.0 Band Edge Emission – 802.11g mode

Rule Part: FCC Part 15.247(d)

Test Procedure: Measurement of Digital Transmission Systems Operating under Section 15.247 (March 23, 2005)

Limit: 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. (Device complies with Power Option 1).

Results: Compliant

Notes: The EUT was set to transmit at its maximum power, maximum data rate, and maximum duty cycle.



166 South Carter, Genoa City, WI 53128

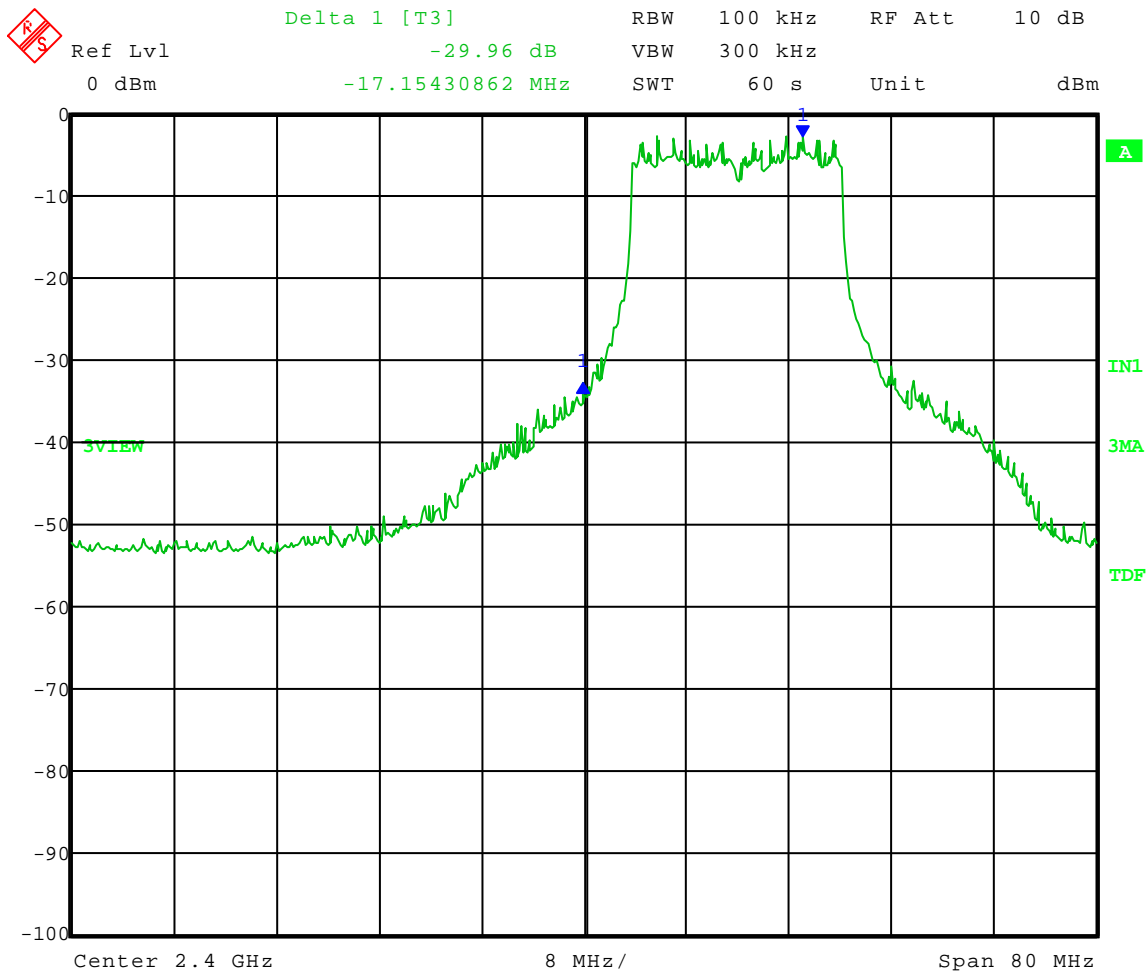
Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

Test Date: 09-21-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Low Band-Edge Compliance - Conducted
Operator: Craig B

Comment: **Low Channel**: Frequency – 2.412 GHz
802.11g

Band-Edge Frequency = 2.4 GHz
Band-Edge > 20 dB Below Peak In-Band Emission



Date: 21.SEP.2011 10:06:40



166 South Carter, Genoa City, WI 53128

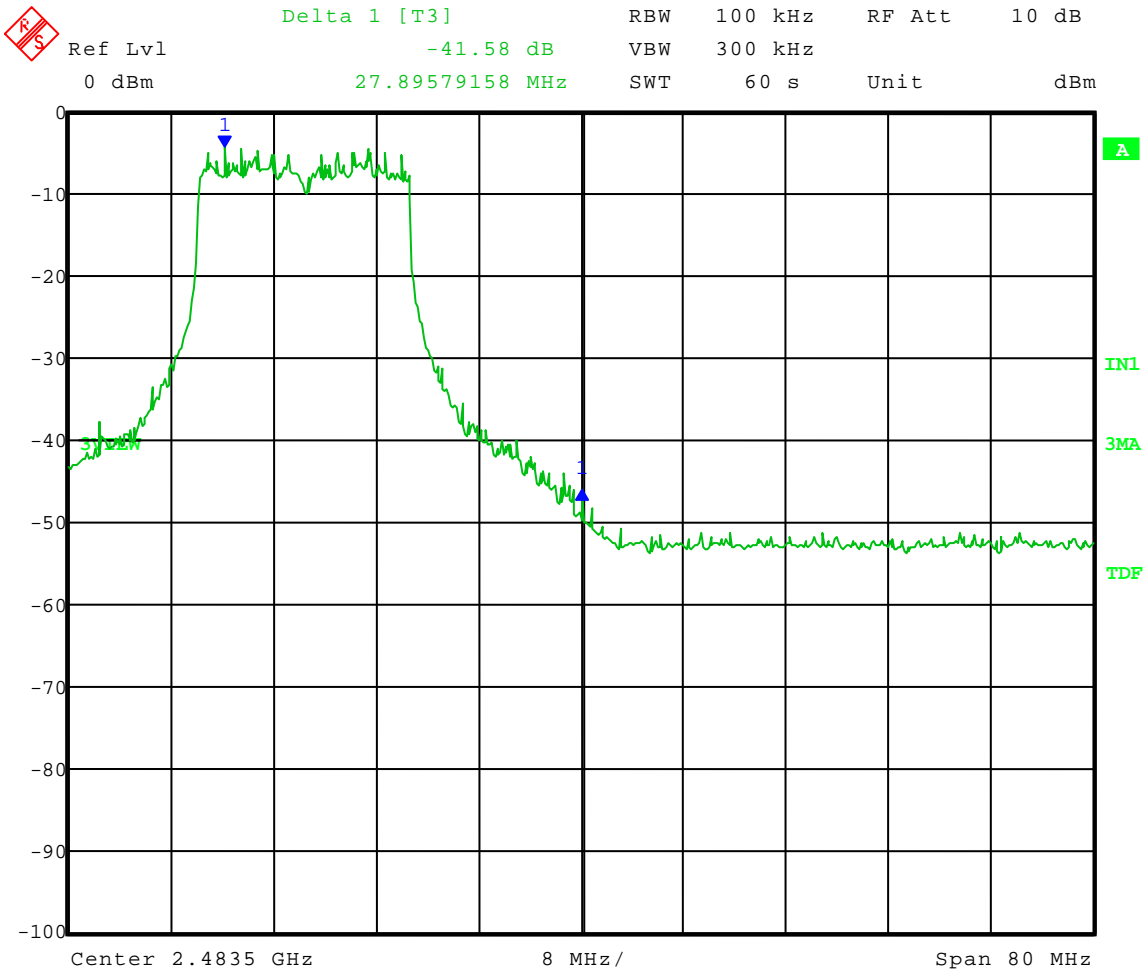
Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

Test Date: 09-21-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Upper Band-Edge Compliance - Conducted
Operator: Craig B

Comment: **High Channel**: Frequency – 2.462 GHz
802.11g

Band-Edge Frequency = 2.4835 GHz
Band-Edge > 20 dB Below Peak In-Band Emission



Date: 21.SEP.2011 10:04:16



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

B4.1 Band Edge Emission – 802.11b mode

Rule Part: FCC Part 15.247(d)

Test Procedure: Measurement of Digital Transmission Systems Operating under Section 15.247 (March 23, 2005)

Limit: 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. (Device complies with Power Option 1).

Results: Compliant

Notes: The EUT was set to transmit at its maximum power, maximum data rate, and maximum duty cycle.



166 South Carter, Genoa City, WI 53128

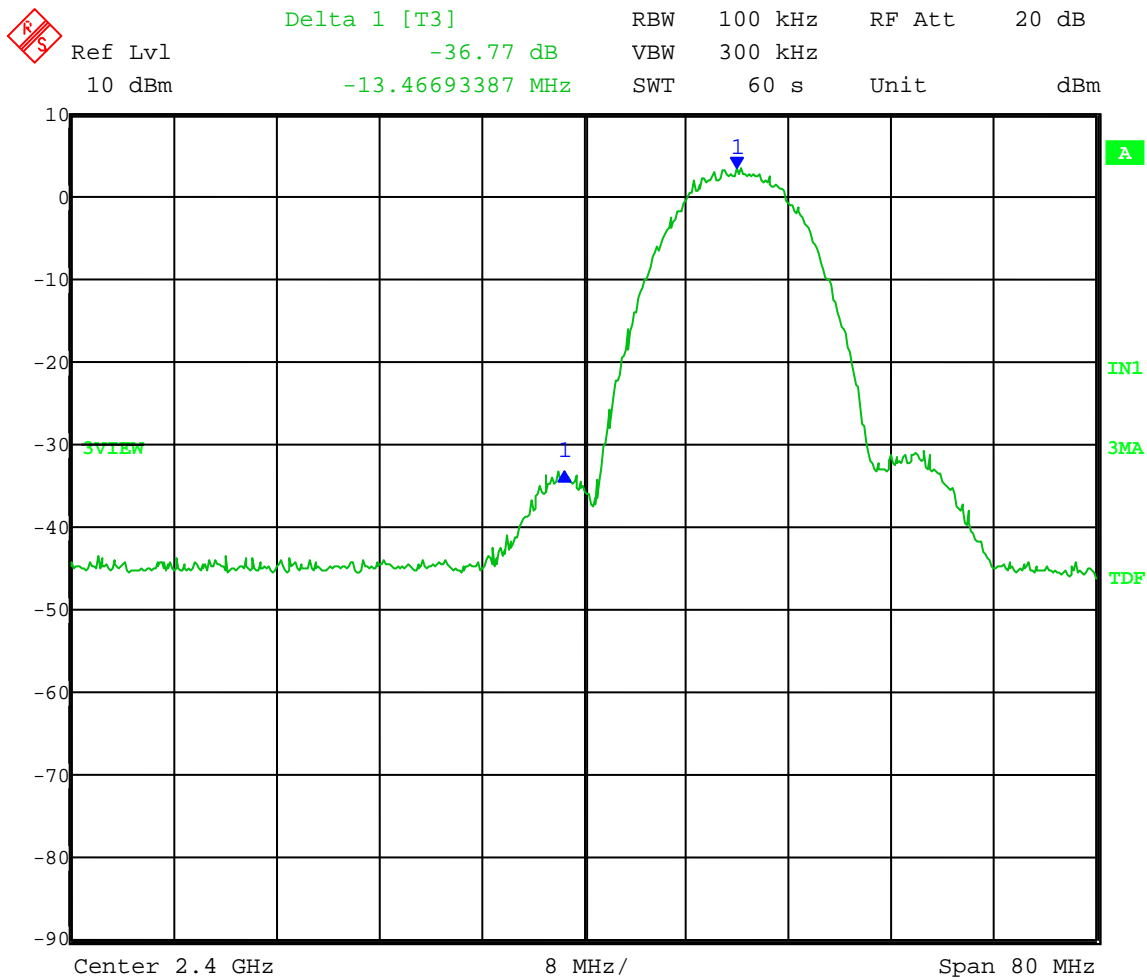
Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

Test Date: 12-12-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Low Band-Edge Compliance - Conducted
Operator: Craig B

Comment: **Low Channel**: Frequency – 2.412 GHz
802.11b

Band-Edge Frequency = 2.4 GHz
Band-Edge > 20 dB Below Peak In-Band Emission



Date: 12.DEC.2011 15:09:29



166 South Carter, Genoa City, WI 53128

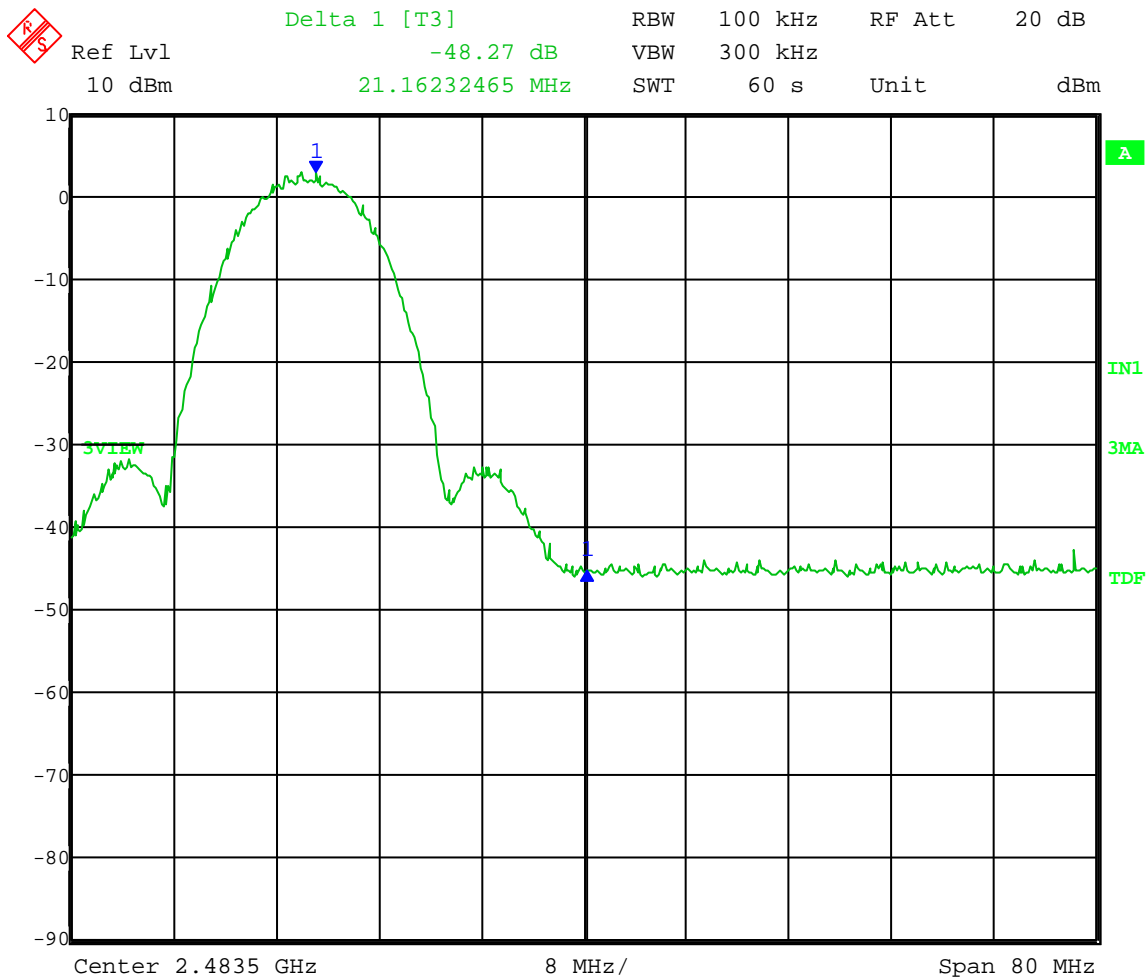
Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

Test Date: 12-12-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Upper Band-Edge Compliance - Conducted
Operator: Craig B

Comment: **High Channel**: Frequency – 2.462 GHz
802.11b

Band-Edge Frequency = 2.4835 GHz
Band-Edge > 20 dB Below Peak In-Band Emission



Date: 12.DEC.2011 15:57:26



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

B4.2 Radiated Upper Band Edge Emission

Rule Part: FCC Part 15.247(d) and FCC Part 15.205

Test Procedure: Measurement of Digital Transmission Systems Operating under Section 15.247 (March 23, 2005), FCC Publication KDB 558074

Limit: FCC Part 15.209

Results: Compliant

Notes: The upper band-edge coincides with a restricted band. Compliance was determined by measuring the field strength of the upper channel emission at the band edge.

The EUT was set to transmit at its maximum power and maximum data rate. Peak measurements were taken with RBW = 1 MHz, VBW = 3 MHz. Since the EUT is not able to transmit continuously, compliance with the Average limits are shown by applying a duty cycle correction factor to a peak detector measurement.

Tested 802.11g mode (worst-case).



166 South Carter, Genoa City, WI 53128

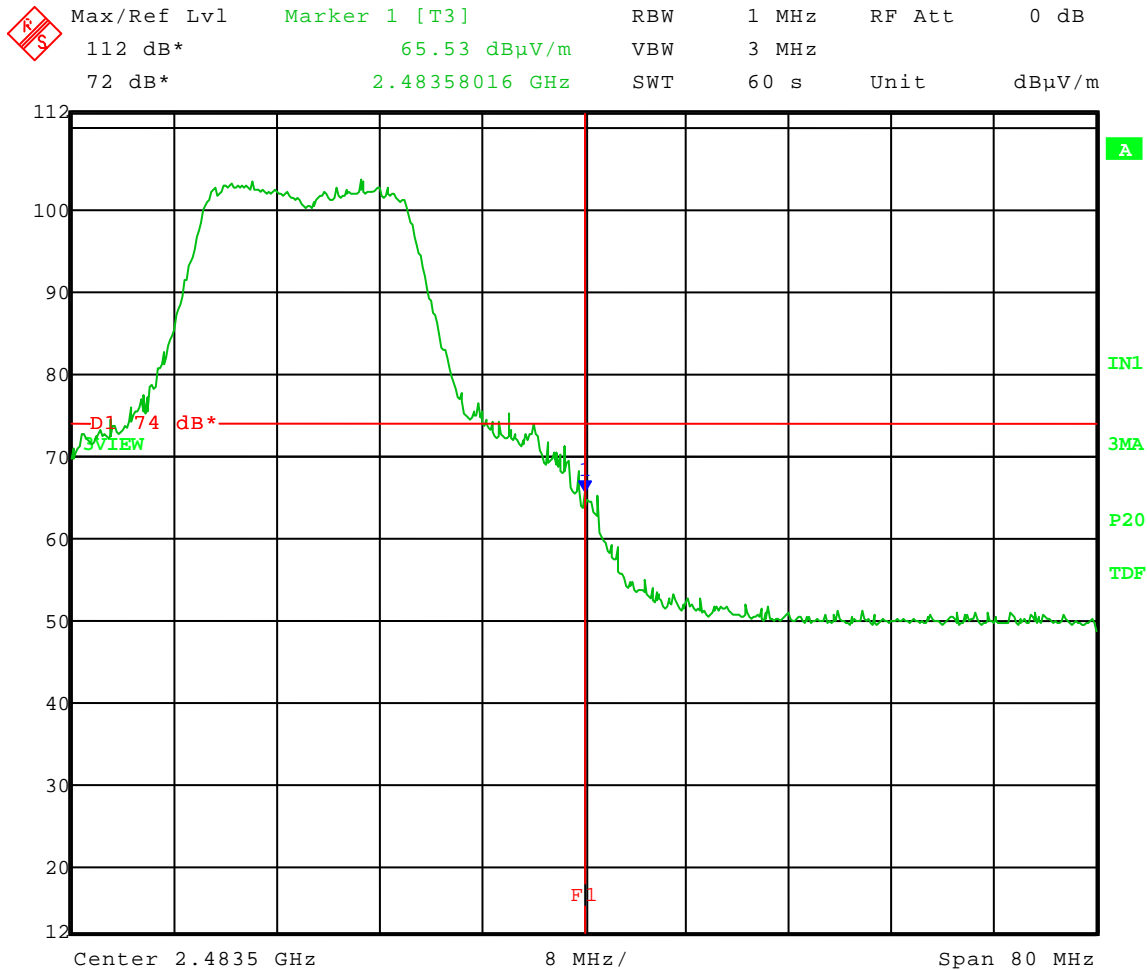
Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

Test Date: 09-19-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Upper Band-Edge Radiated
Operator: Craig B
Comment: **High Channel**: Frequency – 2.462 GHz Horizontal (worst-case)
Band-Edge frequency: 2.4835 GHz
Peak limit at band edge: 74 dBμV/m at 3 meters.
Average limit at band edge: 54 dBμV/m at 3 meters.

Measured **Peak** level: 65.53 dBμV/m **Margin: 8.47 dB**

Average level: Peak – duty cycle correction factor = 65.53 – 22.2 = 43.33 dBμV/m **Margin: 10.67 dB**



Date: 19.SEP.2011 10:23:39



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

B5.0 Peak Power Spectral Density – 802.11g mode

Rule Part: FCC Part 15.247(e)

Test Procedure: Measurement of Digital Transmission Systems Operating under Section 15.247 (March 23, 2005)

Limit: +8 dBm/3kHz

Results: Compliant

Sample Equations: Sweep time = (SPAN / 3 kHz)
= (1.5 MHz / 3 kHz)
= 500 seconds

Notes: The EUT was set to transmit at its maximum power, maximum data rate, and maximum duty cycle. PSD Option 1 was used for this test.



Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

166 South Carter, Genoa City, WI 53128

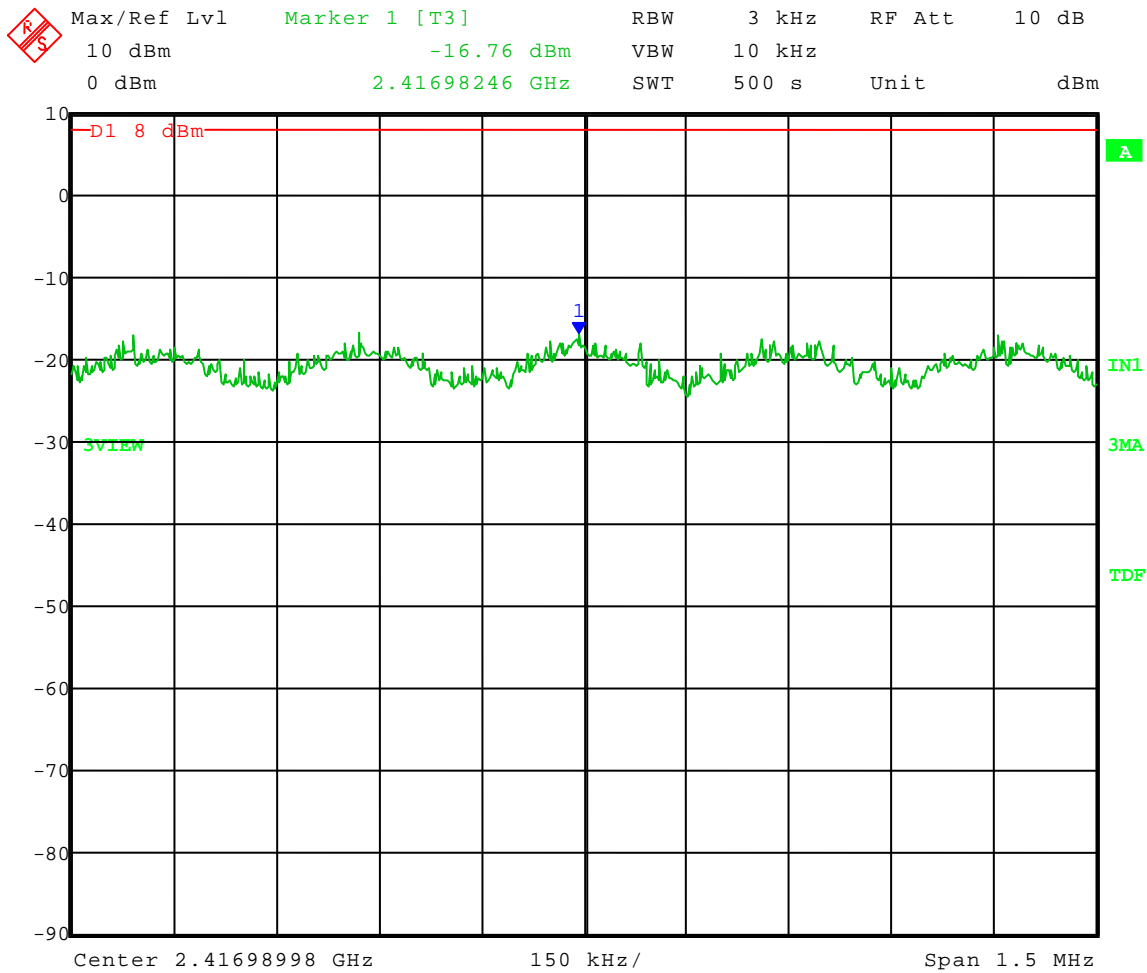
Appendix B – Measurement Data

Test Date: 09-21-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Peak Power Spectral Density - Conducted
 Operator: Craig B

Comment: **Low Channel**: Frequency – 2.412 GHz
 802.11g

Limit: 8 dBm

Power in 3 kHz Bandwidth: **-16.76 dBm**



Date: 21.SEP.2011 13:38:55



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

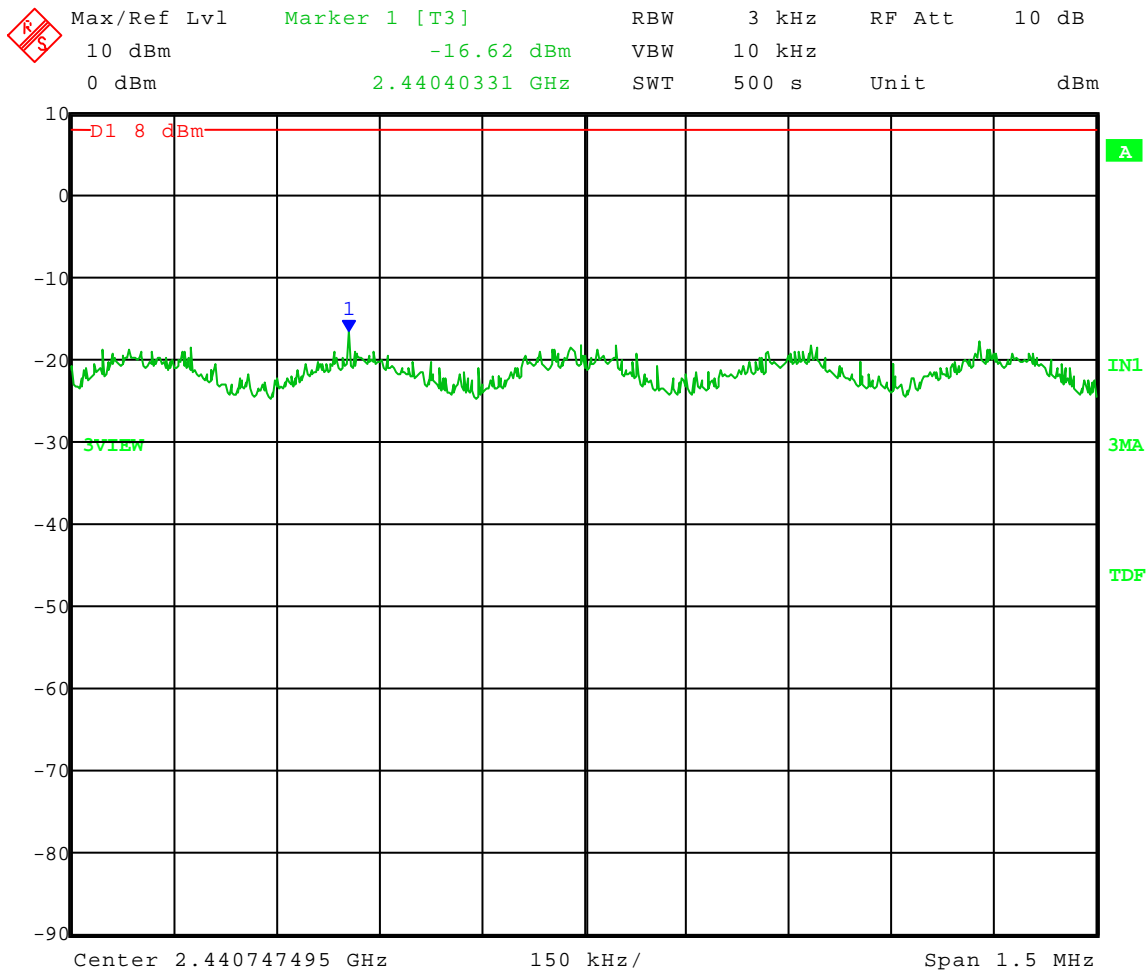
Appendix B – Measurement Data

Test Date: 09-21-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Peak Power Spectral Density - Conducted
Operator: Craig B

Comment: **Middle Channel:** Frequency – 2.437 GHz
802.11g

Limit: 8 dBm

Power in 3 kHz Bandwidth: **-16.62 dBm**



Date: 21.SEP.2011 14:09:16



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

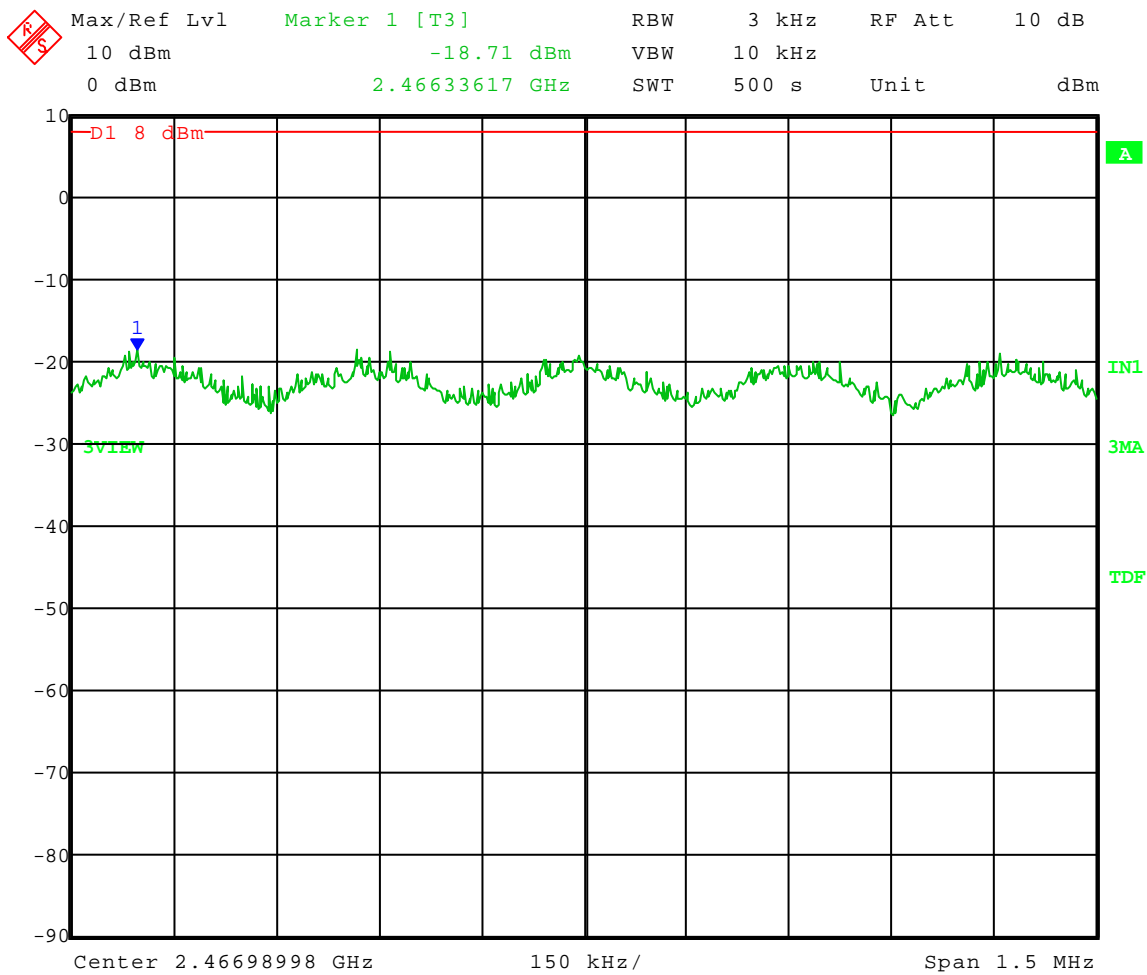
Appendix B – Measurement Data

Test Date: 09-21-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Peak Power Spectral Density - Conducted
Operator: Craig B

Comment: **High Channel**: Frequency – 2.462 GHz
802.11g

Limit: 8 dBm

Power in 3 kHz Bandwidth: **-18.71 dBm**



Date: 21.SEP.2011 14:33:30



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

B5.1 Peak Power Spectral Density – 802.11b mode

Rule Part: FCC Part 15.247(e)

Test Procedure: Measurement of Digital Transmission Systems Operating under Section 15.247 (March 23, 2005)

Limit: +8 dBm/3kHz

Results: Compliant

Sample Equations: Sweep time = (SPAN / 3 kHz)
= (1.5 MHz / 3 kHz)
= 500 seconds

Notes: The EUT was set to transmit at its maximum power, maximum data rate, and maximum duty cycle. PSD Option 1 was used for this test.



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

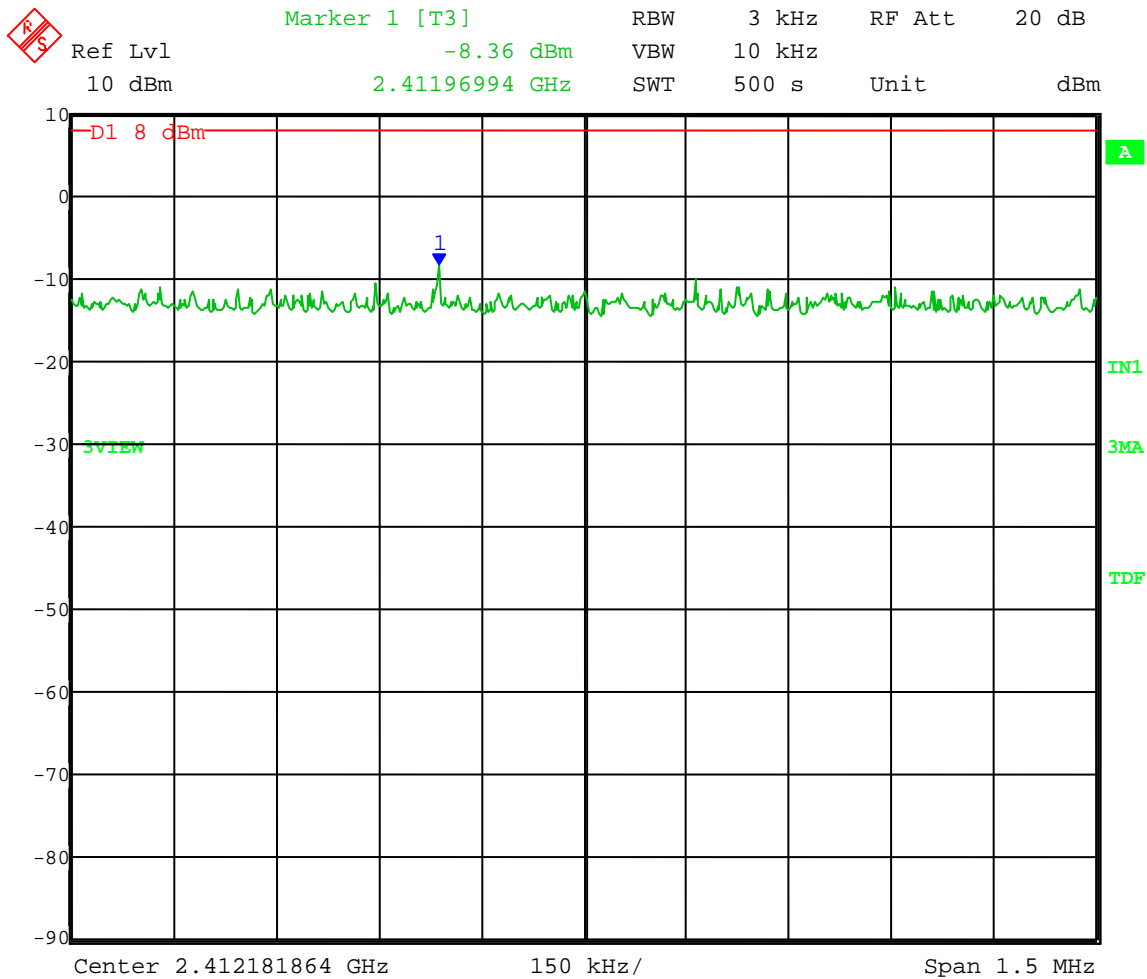
Appendix B – Measurement Data

Test Date: 12-12-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Peak Power Spectral Density - Conducted
Operator: Craig B

Comment: **Low Channel**: Frequency – 2.412 GHz
802.11b

Limit: 8 dBm

Power in 3 kHz Bandwidth: **-8.36 dBm**



Date: 12.DEC.2011 15:26:08



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

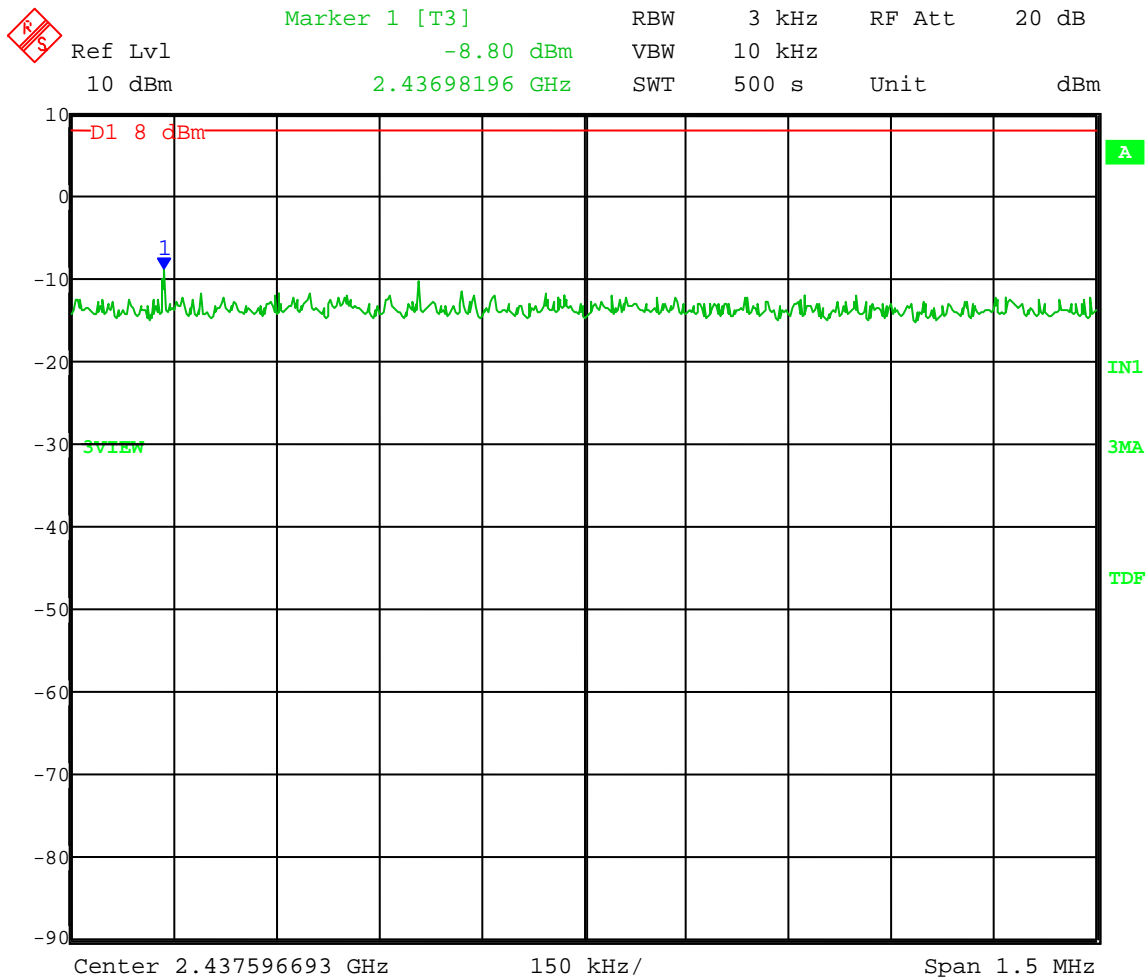
Appendix B – Measurement Data

Test Date: 12-12-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Peak Power Spectral Density - Conducted
Operator: Craig B

Comment: **Middle Channel:** Frequency – 2.437 GHz
802.11b

Limit: 8 dBm

Power in 3 kHz Bandwidth: **-8.80 dBm**



Date: 12.DEC.2011 15:37:53



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

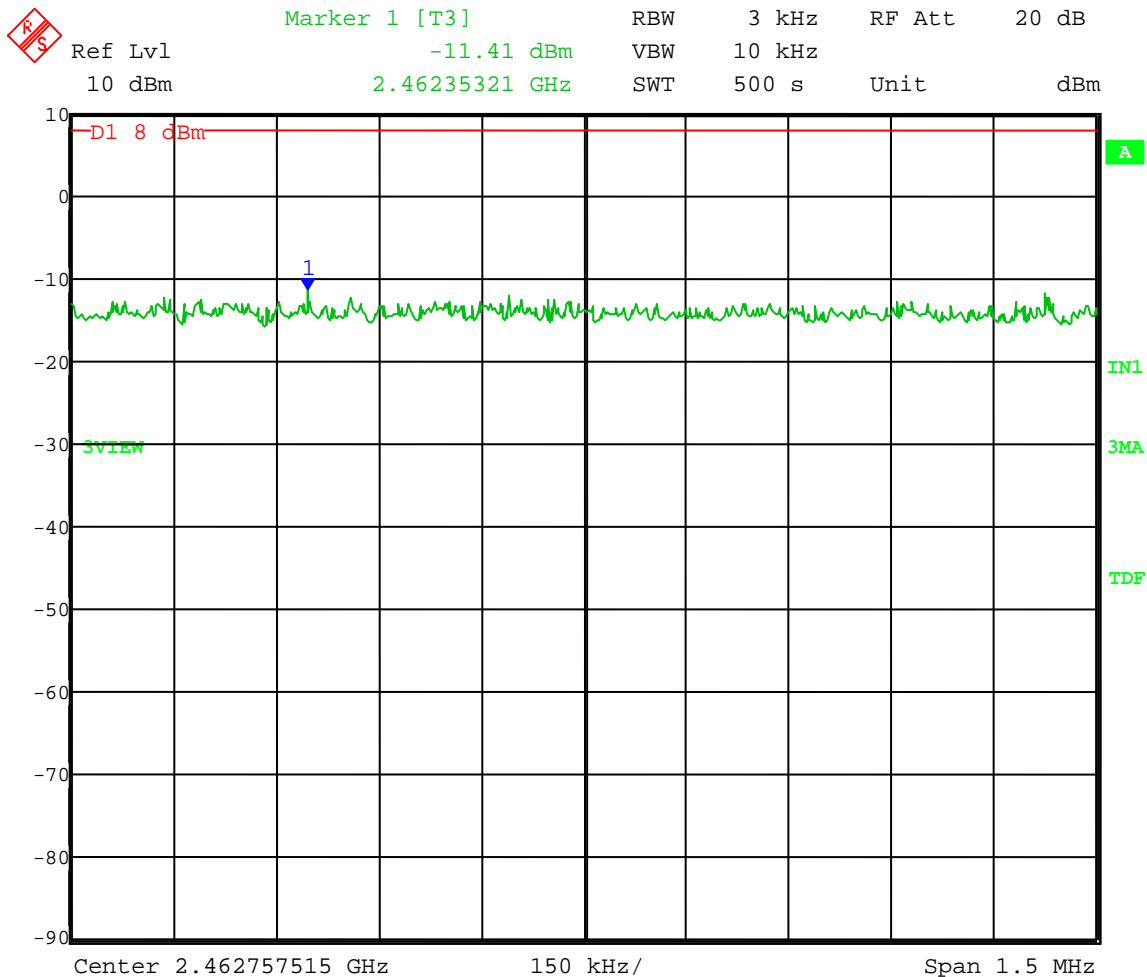
Appendix B – Measurement Data

Test Date: 12-12-2011
Company: Koss Corporation
EUT: CAP1.5
Test: Peak Power Spectral Density - Conducted
Operator: Craig B

Comment: **High Channel**: Frequency – 2.462 GHz
802.11b

Limit: 8 dBm

Power in 3 kHz Bandwidth: **-11.41 dBm**



Date: 12.DEC.2011 15:49:52



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

B6.0 Radiated Emissions in Restricted Bands (1 to 26 GHz)

Rule Part: FCC Part 15.247(d) and FCC Part 15.205

Test Procedure: Measurement of Digital Transmission Systems Operating under Section 15.247 (March 23, 2005), FCC Publication KDB 558074

Limit: FCC Part 15.209

Results: Compliant

Notes: The EUT was set to transmit at its maximum power and maximum data rate. Peak measurements were taken with RBW = 1 MHz, VBW = 3 MHz. Since the EUT is not able to transmit continuously, compliance with the Average limits are shown by applying a duty cycle correction factor to a peak detector measurement.

Radiated Spurious Emissions in Restricted Bands
Tested at a 3 Meter Distance 1 GHz to 18 GHz
Tested at a 1 Meter Distance 18 GHz to 26 GHz

EUT: CAP1.5
Manufacturer: Koss Corporation
Operating Condition: 70 deg F; 50% R.H.
Test Site: Site G1
Operator: Craig B
Test Specification: FCC Part 15.247(d) and FCC Part 15.205
Comment: 802.11b/g
Date: 09/19/2011

- Notes:** (1) Peak measurements were taken with RBW = 1 MHz, VBW = 3 MHz
(2) Since EUT is not transmitting continuously, compliance with the Average limits are shown by applying a duty cycle correction factor to a peak detector measurement.
(3) All other restricted band emissions at least 20 dB under the limit.

Channel 1 (2.412 GHz):

| Frequency (GHz) | Measurement Type | Ant. Pol. | Level (dBuV) | Antenna Factor (dB/m) | System Loss (dB) | Total Level (dBuV/m) | Duty Cycle Correction (dB) | Final Corrected (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Comment |
|-----------------|------------------|-----------|--------------|-----------------------|------------------|----------------------|----------------------------|--------------------------|----------------|-------------|-----------|
| 4.824 | Average | Vert | 52.58 | 33.06 | -38.9 | 46.7 | -22.2 | 24.5 | 54 | 29.5 | Res. Band |
| 4.824 | Max Peak | Vert | 52.58 | 33.06 | -38.9 | 46.7 | --- | 46.7 | 74 | 27.3 | Res. Band |
| 4.824 | Average | Horz | 52.92 | 33.06 | -38.9 | 47.1 | -22.2 | 24.9 | 54 | 29.1 | Res. Band |
| 4.824 | Max Peak | Horz | 52.92 | 33.06 | -38.9 | 47.1 | --- | 47.1 | 74 | 26.9 | Res. Band |
| 12.060 | Average | Vert | Noise Floor | | | | -22.2 | | 54 | | Res. Band |
| 12.060 | Max Peak | Vert | Noise Floor | | | | --- | | 74 | | Res. Band |
| 12.060 | Average | Horz | Noise Floor | | | | -22.2 | | 54 | | Res. Band |
| 12.060 | Max Peak | Horz | Noise Floor | | | | --- | | 74 | | Res. Band |
| 14.472 | Average | Vert | Noise Floor | | | | -22.2 | | 54 | | Res. Band |
| 14.472 | Max Peak | Vert | Noise Floor | | | | --- | | 74 | | Res. Band |
| 14.472 | Average | Horz | Noise Floor | | | | -22.2 | | 54 | | Res. Band |
| 14.472 | Max Peak | Horz | Noise Floor | | | | --- | | 74 | | Res. Band |
| 19.296 | Average | Vert | 49.20 | 40.03 | -37.5 | 51.7 | -22.2 | 29.5 | 64 | 34.5 | Res. Band |
| 19.296 | Max Peak | Vert | 49.20 | 40.03 | -37.5 | 51.7 | --- | 51.7 | 84 | 32.3 | Res. Band |
| 19.296 | Average | Horz | 50.14 | 40.03 | -37.5 | 52.7 | -22.2 | 30.5 | 64 | 33.5 | Res. Band |
| 19.296 | Max Peak | Horz | 50.14 | 40.03 | -37.5 | 52.7 | --- | 52.7 | 84 | 31.3 | Res. Band |

Radiated Spurious Emissions in Restricted Bands
Tested at a 3 Meter Distance 1 GHz to 18 GHz
Tested at a 1 Meter Distance 18 GHz to 26 GHz

EUT: CAP1.5
Manufacturer: Koss Corporation
Operating Condition: 70 deg F; 50% R.H.
Test Site: Site G1
Operator: Craig B
Test Specification: FCC Part 15.247(d) and FCC Part 15.205
Comment: 802.11b/g
Date: 09/19/2011

- Notes:** (1) Peak measurements were taken with RBW = 1 MHz, VBW = 3 MHz
(2) Since EUT is not transmitting continuously, compliance with the Average limits are shown by applying a duty cycle correction factor to a peak detector measurement.
(3) All other restricted band emissions at least 20 dB under the limit.

Channel 6 (2.437 GHz):

| Frequency (GHz) | Measurement Type | Ant. Pol. | Level (dBuV) | Antenna Factor (dB/m) | System Loss (dB) | Total Level (dBuV/m) | Duty Cycle Correction (dB) | Final Corrected (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Comment |
|-----------------|------------------|-----------|--------------|-----------------------|------------------|----------------------|----------------------------|--------------------------|----------------|-------------|-----------|
| 4.874 | Average | Vert | 55.21 | 33.10 | -39.3 | 49.0 | -22.2 | 26.8 | 54 | 27.2 | Res. Band |
| 4.824 | Max Peak | Vert | 55.21 | 33.10 | -39.3 | 49.0 | --- | 49.0 | 74 | 25.0 | Res. Band |
| 4.874 | Average | Horz | 54.77 | 33.10 | -39.3 | 48.6 | -22.2 | 26.4 | 54 | 27.6 | Res. Band |
| 4.874 | Max Peak | Horz | 54.77 | 33.10 | -39.3 | 48.6 | --- | 48.6 | 74 | 25.4 | Res. Band |
| 7.311 | Average | Vert | Noise Floor | | | | -22.2 | | 54 | | Res. Band |
| 7.311 | Max Peak | Vert | Noise Floor | | | | --- | | 74 | | Res. Band |
| 7.311 | Average | Horz | Noise Floor | | | | -22.2 | | 54 | | Res. Band |
| 7.311 | Max Peak | Horz | Noise Floor | | | | --- | | 74 | | Res. Band |
| 12.185 | Average | Vert | Noise Floor | | | | -22.2 | | 54 | | Res. Band |
| 12.185 | Max Peak | Vert | Noise Floor | | | | --- | | 74 | | Res. Band |
| 12.185 | Average | Horz | Noise Floor | | | | -22.2 | | 54 | | Res. Band |
| 12.185 | Max Peak | Horz | Noise Floor | | | | --- | | 74 | | Res. Band |
| 19.496 | Average | Vert | 48.70 | 40.05 | -37.2 | 51.6 | -22.2 | 29.4 | 64 | 34.7 | Res. Band |
| 19.496 | Max Peak | Vert | 48.70 | 40.05 | -37.2 | 51.6 | --- | 51.6 | 84 | 32.5 | Res. Band |
| 19.496 | Average | Horz | 49.93 | 40.05 | -37.2 | 52.8 | -22.2 | 30.6 | 64 | 33.4 | Res. Band |
| 19.496 | Max Peak | Horz | 49.93 | 40.05 | -37.2 | 52.8 | --- | 52.8 | 84 | 31.2 | Res. Band |

Radiated Spurious Emissions in Restricted Bands
Tested at a 3 Meter Distance 1 GHz to 18 GHz
Tested at a 1 Meter Distance 18 GHz to 26 GHz

EUT: CAP1.5
Manufacturer: Koss Corporation
Operating Condition: 70 deg F; 50% R.H.
Test Site: Site G1
Operator: Craig B
Test Specification: FCC Part 15.247(d) and FCC Part 15.205
Comment: 80211.b/g
Date: 09/19/2011

- Notes:** (1) Peak measurements were taken with RBW = 1 MHz, VBW = 3 MHz
(2) Since EUT is not transmitting continuously, compliance with the Average limits are shown by applying a duty cycle correction factor to a peak detector measurement.
(3) All other restricted band emissions at least 20 dB under the limit.

Channel 11 (2.462 GHz):

| Frequency (GHz) | Measurement Type | Ant. Pol. | Level (dBuV) | Antenna Factor (dB/m) | System Loss (dB) | Total Level (dBuV/m) | Duty Cycle Correction (dB) | Final Corrected (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Comment |
|-----------------|------------------|-----------|--------------|-----------------------|------------------|----------------------|----------------------------|--------------------------|----------------|-------------|-----------|
| 4.924 | Average | Vert | 52.95 | 33.18 | -39.7 | 46.4 | -22.2 | 24.2 | 54 | 29.8 | Res. Band |
| 4.924 | Max Peak | Vert | 52.95 | 33.18 | -39.7 | 46.4 | --- | 46.4 | 74 | 27.6 | Res. Band |
| 4.924 | Average | Horz | 54.08 | 33.18 | -39.7 | 47.6 | -22.2 | 25.4 | 54 | 28.6 | Res. Band |
| 4.924 | Max Peak | Horz | 54.08 | 33.18 | -39.7 | 47.6 | --- | 47.6 | 74 | 26.4 | Res. Band |
| 7.386 | Average | Vert | Noise Floor | | | | -22.2 | | 54 | | Res. Band |
| 7.386 | Max Peak | Vert | Noise Floor | | | | --- | | 74 | | Res. Band |
| 7.386 | Average | Horz | Noise Floor | | | | -22.2 | | 54 | | Res. Band |
| 7.386 | Max Peak | Horz | Noise Floor | | | | --- | | 74 | | Res. Band |
| 12.310 | Average | Vert | Noise Floor | | | | -22.2 | | 54 | | Res. Band |
| 12.310 | Max Peak | Vert | Noise Floor | | | | --- | | 74 | | Res. Band |
| 12.310 | Average | Horz | Noise Floor | | | | -22.2 | | 54 | | Res. Band |
| 12.310 | Max Peak | Horz | Noise Floor | | | | --- | | 74 | | Res. Band |
| 19.696 | Average | Vert | 48.13 | 40.07 | -37.1 | 51.1 | -22.2 | 28.9 | 64 | 35.1 | Res. Band |
| 19.696 | Max Peak | Vert | 48.13 | 40.07 | -37.1 | 51.1 | --- | 51.1 | 84 | 32.9 | Res. Band |
| 19.696 | Average | Horz | 49.39 | 40.07 | -37.1 | 52.4 | -22.2 | 30.2 | 64 | 33.8 | Res. Band |
| 19.696 | Max Peak | Horz | 49.39 | 40.07 | -37.1 | 52.4 | --- | 52.4 | 84 | 31.6 | Res. Band |



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

B6.1 Radiated Emissions (30 MHz to 1 GHz)

Rule Part: FCC 15.247(d); 15.209

Test Procedure: ANSI C63.4, 2009

Limit: FCC 15.109 / 15.209:

| Frequency of Emission (MHz) | Field Strength (microvolts/meter) |
|--------------------------------|--------------------------------------|
| 30 - 88 | 100 |
| 88 - 216 | 150 |
| 216 - 960 | 200 |
| Above 960 | 500 |

Results: PASS

Notes: The measurement bandwidth on the receiver was set to 120 kHz. The detector was set to Quasi-Peak. The test distance was 3 meters.

FCC Part 15 Class B

Electric Field Strength

EUT: CAP1.5
Manufacturer: Koss Corporation
Operating Condition: 70 deg F 47% R.H.
Test Site: DLS O.F. G1
Operator: Craig B
Test Specification: 802.11b/g Transmit & Receive modes
Comment: Low, Mid, & High channels
Date: 09-23-2011

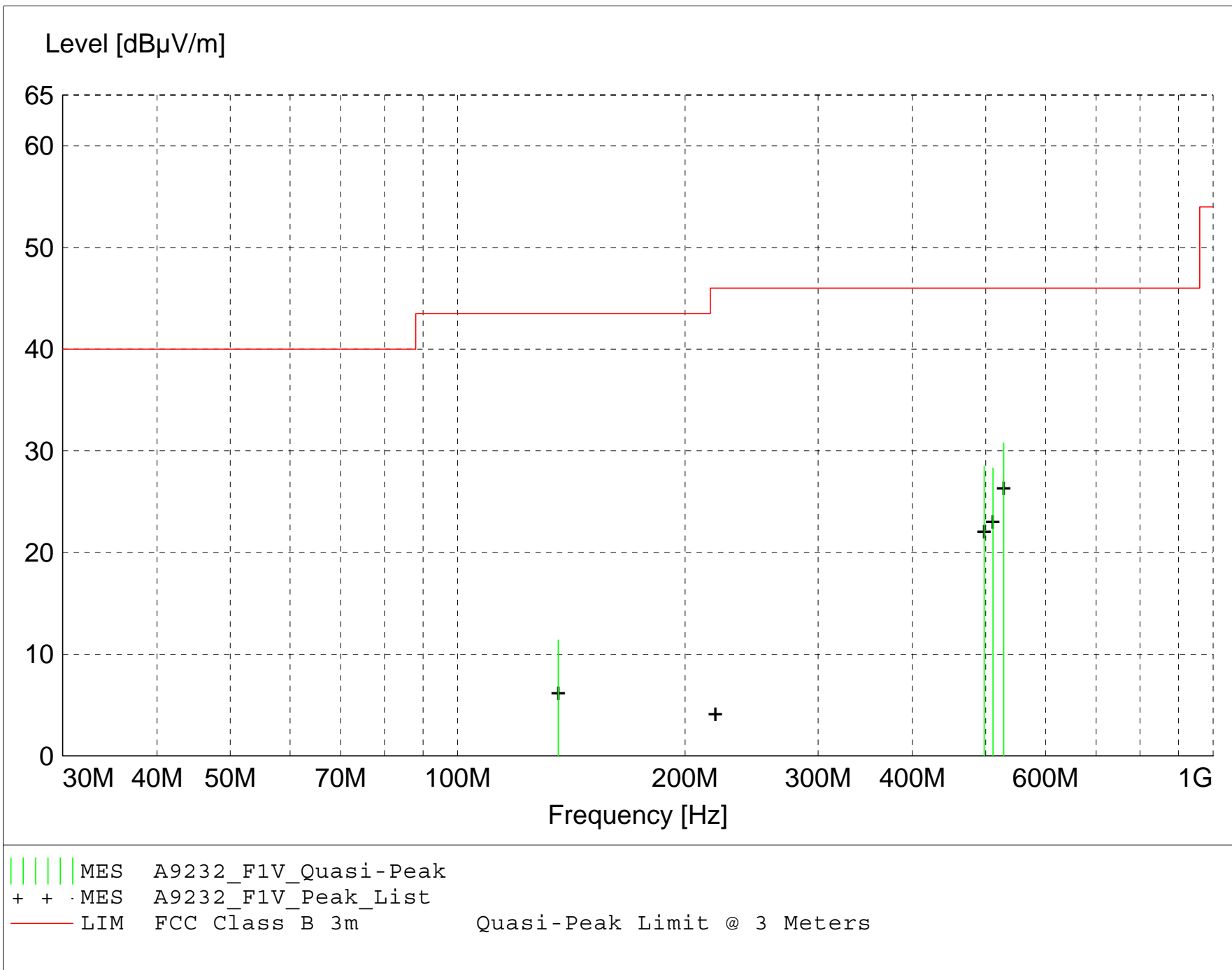
TEXT: "Vert 3 meters"

Short Description: Test Set-up

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

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

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



MEASUREMENT RESULT: "A9232_F1V_Final"

9/23/2011 1:02PM

| Frequency | Level | Antenna | System | Total | Limit | Margin | Height | EuT | Final | Comment |
|------------|------------|--------------|--------|--------------|--------------|--------|--------|-------|------------|---------|
| MHz | dB μ V | Factor | Loss | Level | dB μ V/m | dB | Ant. | Angle | Detector | |
| | | dB μ V/m | dB | dB μ V/m | dB μ V/m | | m | deg | | |
| 528.100000 | 32.60 | 18.36 | -20.2 | 30.8 | 46.0 | 15.2 | 1.00 | 0 | QUASI-PEAK | None |
| 497.550000 | 30.61 | 18.15 | -20.3 | 28.5 | 46.0 | 17.5 | 1.00 | 0 | QUASI-PEAK | None |
| 511.050000 | 29.78 | 18.78 | -20.2 | 28.3 | 46.0 | 17.7 | 1.00 | 0 | QUASI-PEAK | None |
| 497.550000 | 28.22 | 18.15 | -20.3 | 26.1 | 46.0 | 19.9 | 1.00 | 0 | QUASI-PEAK | None |
| 511.050000 | 27.29 | 18.78 | -20.2 | 25.8 | 46.0 | 20.2 | 1.00 | 0 | QUASI-PEAK | None |
| 135.850000 | 21.34 | 13.42 | -23.4 | 11.4 | 43.5 | 32.1 | 1.00 | 0 | QUASI-PEAK | None |

FCC Part 15 Class B

Electric Field Strength

EUT: CAP1.5
Manufacturer: Koss Corporation
Operating Condition: 70 deg F 47% R.H.
Test Site: DLS O.F. G1
Operator: Craig B
Test Specification: 802.11b/g Transmit & Receive modes
Comment: Low, Mid, & High channels
Date: 09-23-2011

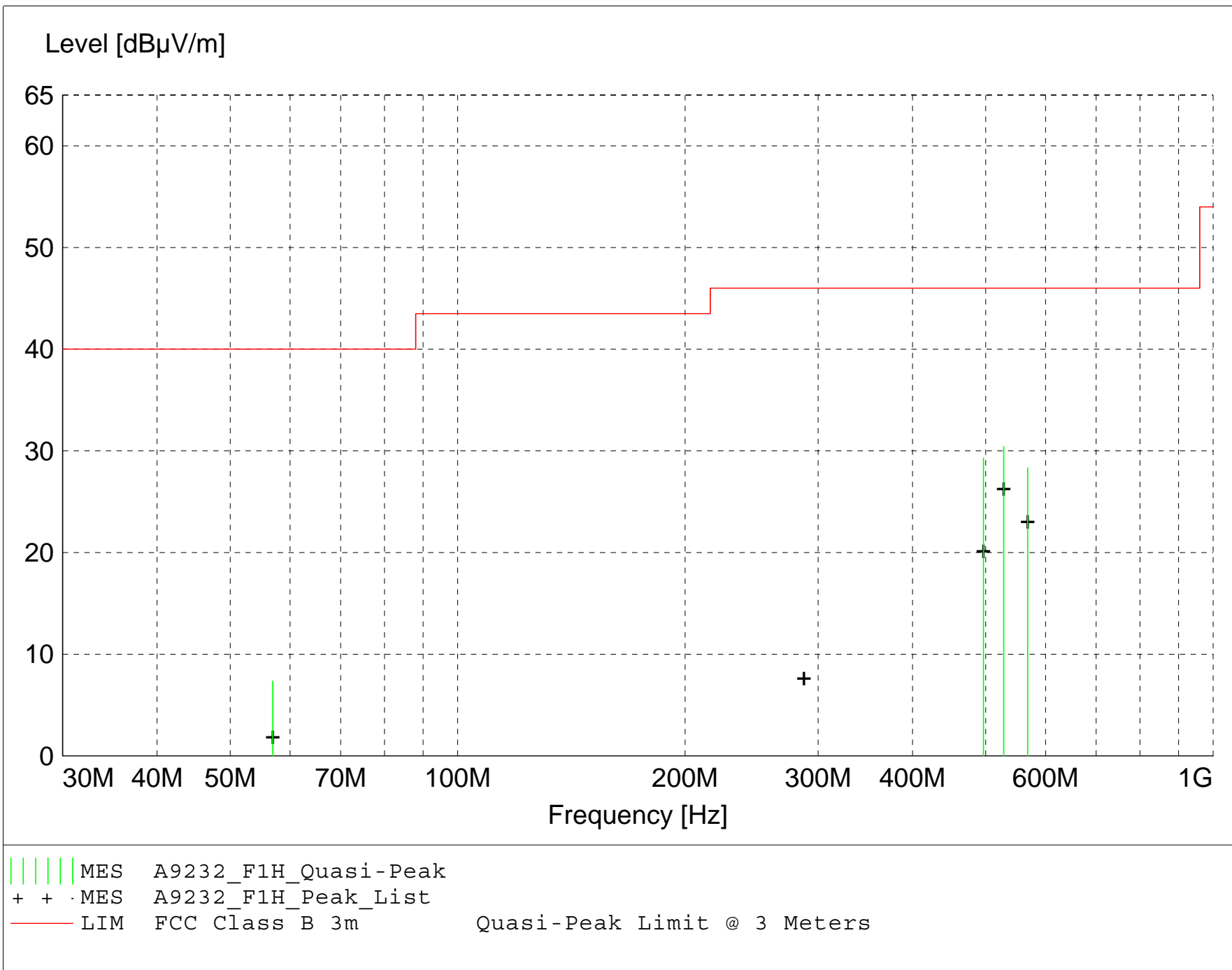
TEXT: "Horz 3 meters"

Short Description: Test Set-up

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

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

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



MEASUREMENT RESULT: "A9232_F1H_Final"

9/23/2011 12:59PM

| Frequency | Level | Antenna | System | Total | Limit | Margin | Height | EuT | Final | Comment |
|------------|-------|---------|--------|--------|--------|--------|--------|-------|------------|---------|
| MHz | dBµV | Factor | Loss | Level | dBµV/m | dB | Ant. | Angle | Detector | |
| | | dBµV/m | dB | dBµV/m | dBµV/m | | m | deg | | |
| 528.090000 | 32.22 | 18.36 | -20.2 | 30.4 | 46.0 | 15.6 | 1.40 | 180 | QUASI-PEAK | None |
| 496.600000 | 31.43 | 18.13 | -20.2 | 29.3 | 46.0 | 16.7 | 1.62 | 0 | QUASI-PEAK | None |
| 568.150000 | 29.25 | 18.74 | -19.6 | 28.3 | 46.0 | 17.7 | 1.29 | 0 | QUASI-PEAK | None |
| 496.600000 | 28.68 | 18.13 | -20.2 | 26.6 | 46.0 | 19.4 | 1.57 | 0 | QUASI-PEAK | None |
| 56.900000 | 19.70 | 12.28 | -24.6 | 7.4 | 40.0 | 32.6 | 2.00 | 0 | QUASI-PEAK | None |



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

B7.0 Duty Cycle of EUT during transmitter testing

Rule Part: Section 15.35(c)

Test Procedure: ANSI C63.4-2009

Limit: Not Applicable

Results: Duty Cycle = 7.725% over a 100 ms period
Duty Cycle Correction = 22.2 dB

Sample Equations: 30 pulses during 100 ms period
0.2575 ms/pulse
Total ON time during 100 ms = 7.725 ms
 $20 \text{ Log } (7.725/100) = 22.242$
Duty cycle correction factor = 22.2 dB

Notes: Since the EUT is not able to transmit continuously, compliance with Average limits are shown by applying a duty cycle correction factor to a peak detector measurement.



Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

166 South Carter, Genoa City, WI 53128

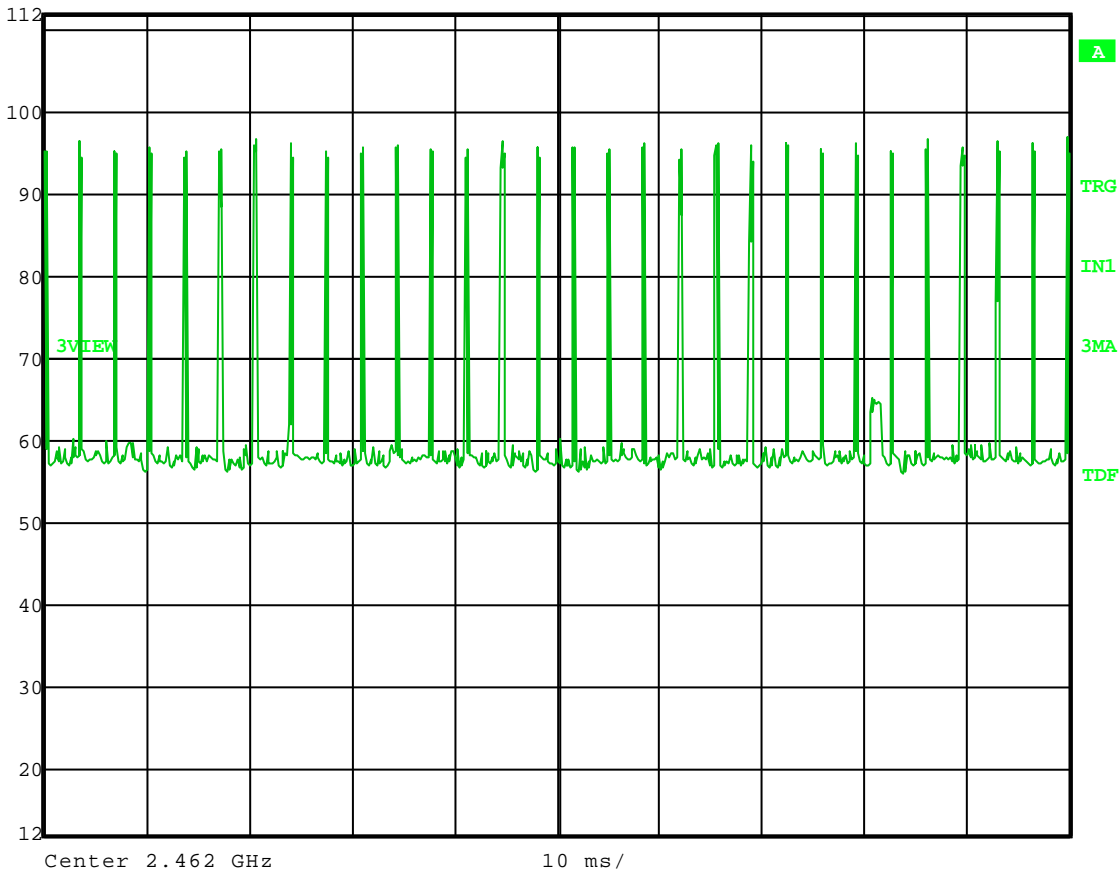
Appendix B – Measurement Data

Test Date: 09-19-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Duty Cycle – duty cycle used during testing (special test software)
 Operator: Craig B

Comment: 30 pulses
 0.2575 ms/pulse
 ON time during 100 ms = 7.725 ms
 20 Log (7.725/100) = 22.242
 Duty cycle correction factor = 22.2 dB

Number of pulses during 100 ms period:

| | | | | | |
|--|-------------|-----|--------|--------|--------|
| | Max/Ref Lvl | RBW | 1 MHz | RF Att | 0 dB |
| | 112 dB* | VBW | 3 MHz | | |
| | 72 dB* | SWT | 100 ms | Unit | dBµV/m |



Date: 19.SEP.2011 10:53:01



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
 Model Tested: STRIVA CAP
 Report Number: 17289

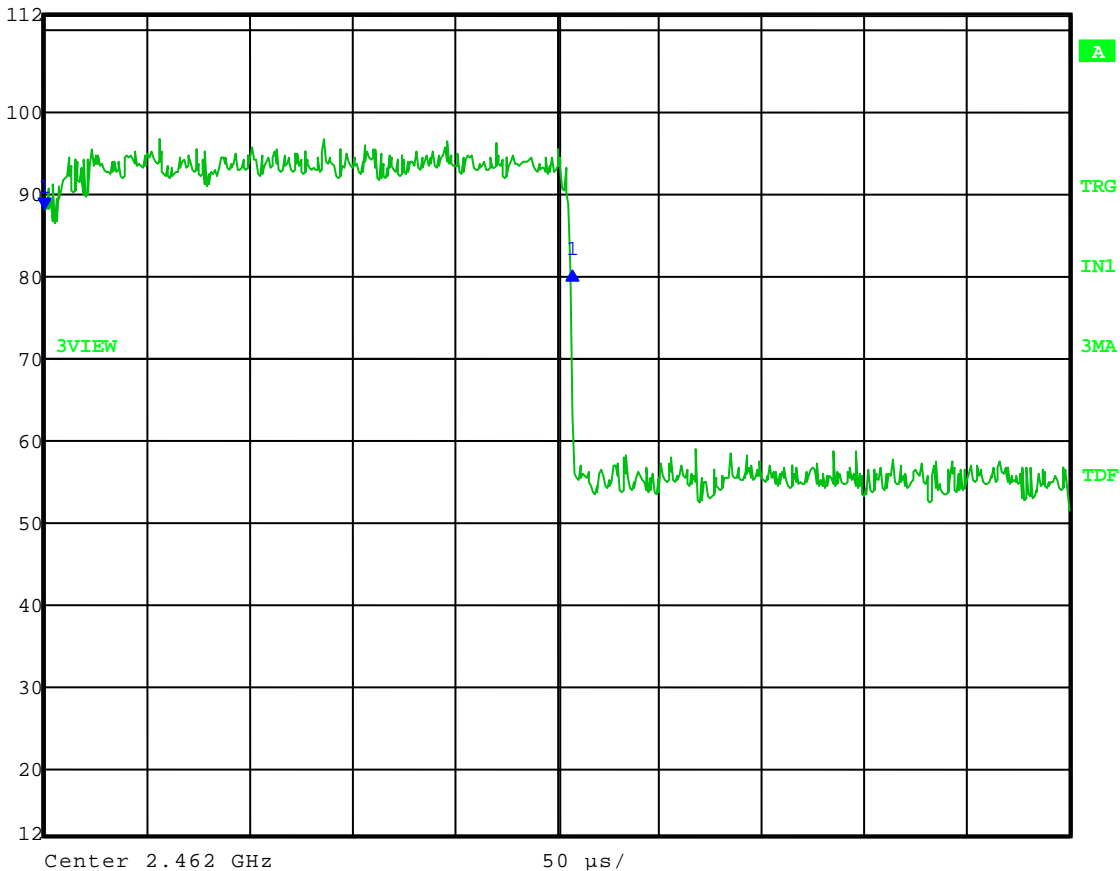
Appendix B – Measurement Data

Test Date: 09-19-2011
 Company: Koss Corporation
 EUT: CAP1.5
 Test: Duty Cycle – duty cycle used during testing (special test software)
 Operator: Craig B

Comment: 30 pulses
 0.2575 ms/pulse
 ON time during 100 ms = 7.725 ms
 20 Log (7.725/100) = 22.242
 Duty cycle correction factor = 22.2 dB

ON time of one pulse:

| | | | | | | |
|----|-------------|--------------------|-----|-------------|--------|--------------|
| ES | Max/Ref Lvl | Delta 1 [T3] | RBW | 1 MHz | RF Att | 0 dB |
| | 112 dB* | -7.44 dB | VBW | 3 MHz | | |
| | 72 dB* | 257.515030 μ s | SWT | 500 μ s | Unit | dB μ V/m |



Date: 19.SEP.2011 10:51:41



166 South Carter, Genoa City, WI 53128

Company: Koss Corporation
Model Tested: STRIVA CAP
Report Number: 17289

Appendix B – Measurement Data

B8.0 AC Line Conducted Emissions

Rule Part: FCC Part 15.207

Test Procedure: ANSI C63.4-2009

Limit: 15.207(a)

Results: Compliant

Notes: This was an AC Conducted emissions measurement.
The EUT was powered from an included AC Adapter with an input of 120 VAC
60 Hz.

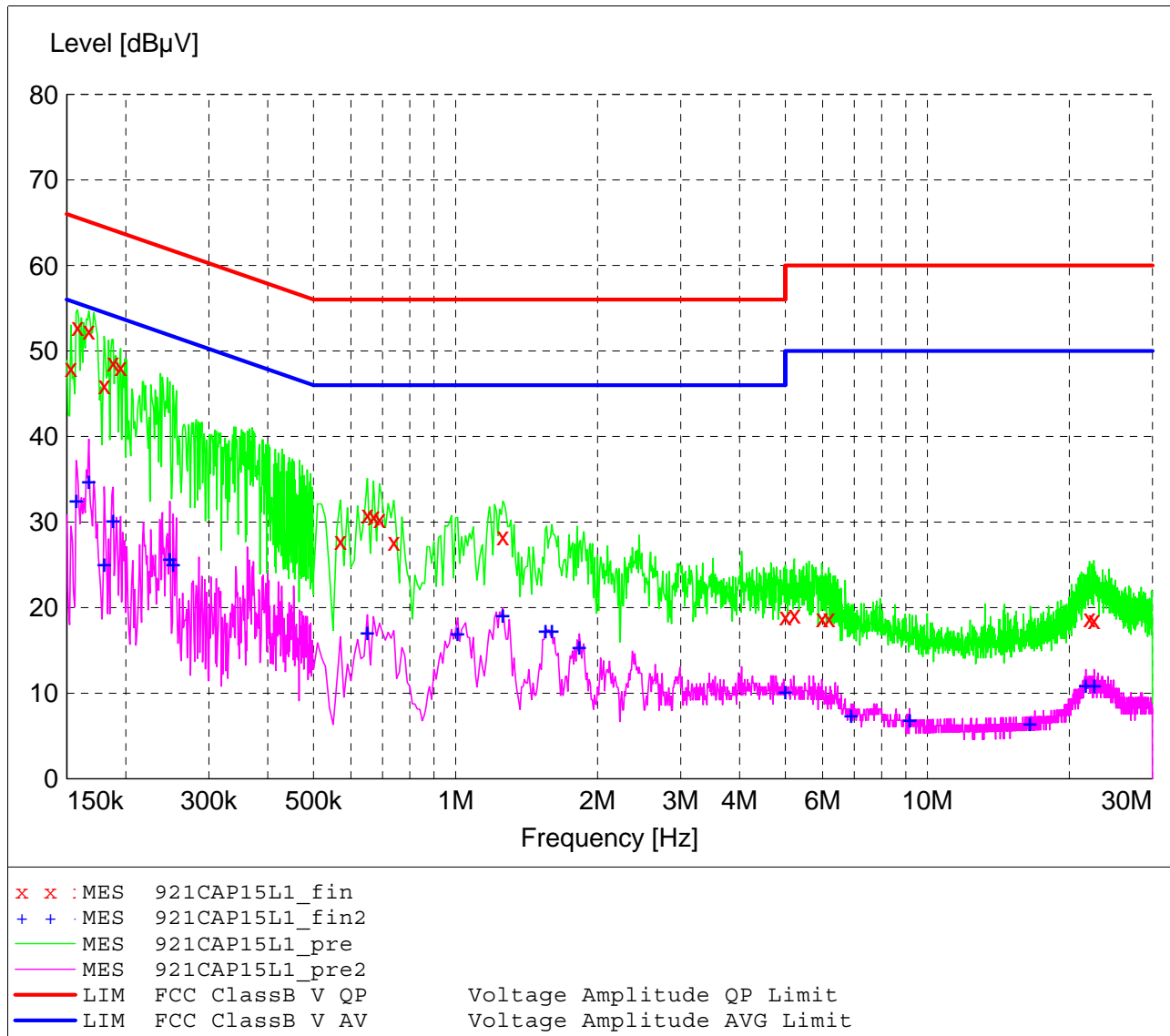
FCC Part 15.207 Class B

Voltage Mains Test

EUT: CAP1.5
 Manufacturer: Koss Corporation
 Operating Condition: 70 deg. F, 49% R.H.
 Test Site: DLS Screen Room
 Operator: Craig B
 Test Specification: 120 V 60 Hz
 Comment: Line 1; charging
 Date: 09-21-2011

SCAN TABLE: "Line Cond SR Final"

| Short Description: | | Line Conducted Emissions | | | | | Transducer |
|--------------------|----------|--------------------------|-----------|------------|-----------|--------------|------------|
| Start | Stop | Step | Detector | Meas. Time | IF Bandw. | | |
| 150.0 kHz | 30.0 MHz | 4.0 kHz | QuasiPeak | 5.0 s | 9 kHz | LISN DLS#128 | |
| | | | | | | | CISPR AV |



MEASUREMENT RESULT: "921CAP15L1_fin"

9/21/2011 3:22PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector |
|------------------|---------------|--------------|---------------|--------------|----------|
| 0.153000 | 48.00 | 13.7 | 66 | 17.8 | QP |
| 0.158000 | 52.80 | 13.6 | 66 | 12.8 | QP |
| 0.167000 | 52.40 | 13.3 | 65 | 12.7 | QP |
| 0.180000 | 46.00 | 13.1 | 65 | 18.5 | QP |
| 0.188000 | 48.70 | 13.0 | 64 | 15.4 | QP |
| 0.195000 | 48.10 | 12.8 | 64 | 15.7 | QP |
| 0.570000 | 27.80 | 11.0 | 56 | 28.2 | QP |
| 0.650000 | 30.90 | 10.9 | 56 | 25.1 | QP |
| 0.670000 | 30.70 | 10.9 | 56 | 25.3 | QP |
| 0.690000 | 30.40 | 10.9 | 56 | 25.6 | QP |
| 0.740000 | 27.70 | 10.8 | 56 | 28.3 | QP |
| 1.260000 | 28.30 | 10.7 | 56 | 27.7 | QP |
| 5.000000 | 19.00 | 10.8 | 56 | 37.0 | QP |
| 5.225000 | 19.20 | 10.8 | 60 | 40.8 | QP |
| 5.975000 | 18.80 | 10.7 | 60 | 41.2 | QP |
| 6.185000 | 18.80 | 10.8 | 60 | 41.2 | QP |
| 22.070000 | 18.80 | 11.5 | 60 | 41.2 | QP |
| 22.550000 | 18.60 | 11.5 | 60 | 41.4 | QP |

MEASUREMENT RESULT: "921CAP15L1_fin2"

9/21/2011 3:22PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector |
|------------------|---------------|--------------|---------------|--------------|----------|
| 0.157000 | 32.60 | 13.6 | 56 | 23.0 | CAV |
| 0.167000 | 34.80 | 13.3 | 55 | 20.3 | CAV |
| 0.180000 | 25.20 | 13.1 | 55 | 29.3 | CAV |
| 0.188000 | 30.20 | 13.0 | 54 | 23.9 | CAV |
| 0.248000 | 25.80 | 12.2 | 52 | 26.0 | CAV |
| 0.252000 | 25.20 | 12.2 | 52 | 26.5 | CAV |
| 0.650000 | 17.20 | 10.9 | 46 | 28.8 | CAV |
| 1.010000 | 17.00 | 10.8 | 46 | 29.0 | CAV |
| 1.260000 | 19.20 | 10.7 | 46 | 26.8 | CAV |
| 1.550000 | 17.40 | 10.7 | 46 | 28.6 | CAV |
| 1.600000 | 17.40 | 10.7 | 46 | 28.6 | CAV |
| 1.830000 | 15.50 | 10.7 | 46 | 30.5 | CAV |
| 5.000000 | 10.30 | 10.8 | 46 | 35.7 | CAV |
| 6.890000 | 7.50 | 10.8 | 50 | 42.5 | CAV |
| 9.170000 | 6.90 | 10.8 | 50 | 43.1 | CAV |
| 16.490000 | 6.50 | 11.2 | 50 | 43.5 | CAV |
| 21.680000 | 11.00 | 11.5 | 50 | 39.0 | CAV |
| 22.580000 | 11.00 | 11.5 | 50 | 39.0 | CAV |

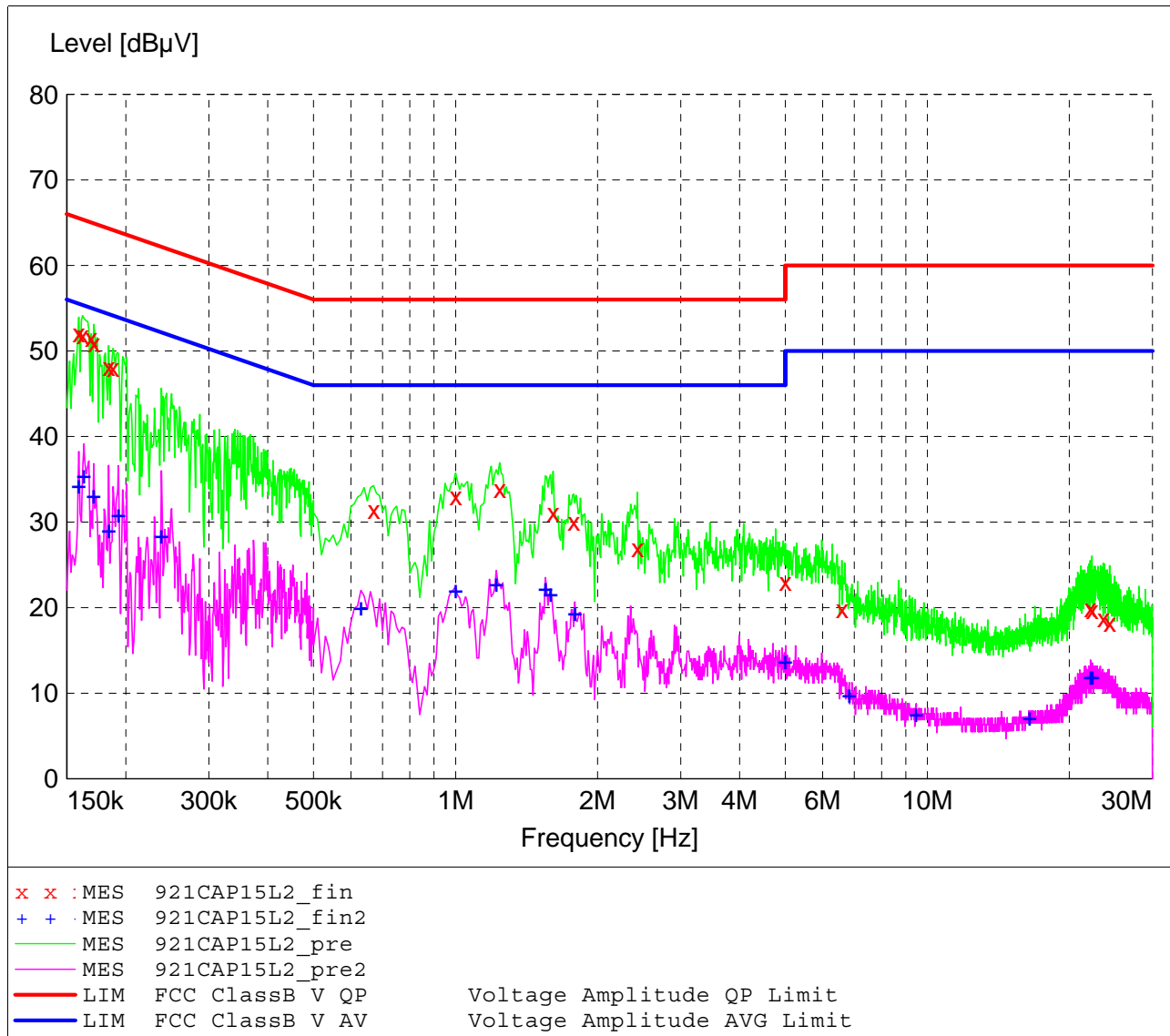
FCC Part 15.207 Class B

Voltage Mains Test

EUT: CAP1.5
 Manufacturer: Koss Corporation
 Operating Condition: 70 deg. F, 49% R.H.
 Test Site: DLS Screen Room
 Operator: Craig B
 Test Specification: 120 V 60 Hz
 Comment: Line 2; charging
 Date: 09-21-2011

SCAN TABLE: "Line Cond SR Final"

| Short Description: | | Line Conducted Emissions | | | | | Transducer |
|--------------------|----------|--------------------------|-----------|------------|-----------|--------------|------------|
| Start | Stop | Step | Detector | Meas. Time | IF Bandw. | | |
| 150.0 kHz | 30.0 MHz | 4.0 kHz | QuasiPeak | 5.0 s | 9 kHz | LISN DLS#128 | |
| | | | | | | | CISPR AV |



MEASUREMENT RESULT: "921CAP15L2_fin"

9/21/2011 3:33PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector |
|------------------|---------------|--------------|---------------|--------------|----------|
| 0.159000 | 52.10 | 13.5 | 66 | 13.4 | QP |
| 0.162000 | 51.90 | 13.4 | 65 | 13.5 | QP |
| 0.169000 | 51.50 | 13.3 | 65 | 13.5 | QP |
| 0.171000 | 50.90 | 13.2 | 65 | 14.0 | QP |
| 0.184000 | 48.10 | 13.0 | 64 | 16.2 | QP |
| 0.188000 | 48.00 | 13.0 | 64 | 16.1 | QP |
| 0.670000 | 31.40 | 10.9 | 56 | 24.6 | QP |
| 1.000000 | 33.00 | 10.8 | 56 | 23.0 | QP |
| 1.240000 | 33.90 | 10.7 | 56 | 22.1 | QP |
| 1.610000 | 31.10 | 10.7 | 56 | 24.9 | QP |
| 1.780000 | 30.10 | 10.7 | 56 | 25.9 | QP |
| 2.430000 | 27.00 | 10.7 | 56 | 29.0 | QP |
| 5.000000 | 23.00 | 10.8 | 56 | 33.0 | QP |
| 6.590000 | 19.80 | 10.8 | 60 | 40.2 | QP |
| 22.145000 | 19.90 | 11.5 | 60 | 40.1 | QP |
| 22.340000 | 19.70 | 11.5 | 60 | 40.3 | QP |
| 23.600000 | 18.80 | 11.5 | 60 | 41.2 | QP |
| 24.350000 | 18.20 | 11.5 | 60 | 41.8 | QP |

MEASUREMENT RESULT: "921CAP15L2_fin2"

9/21/2011 3:33PM

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector |
|------------------|---------------|--------------|---------------|--------------|----------|
| 0.159000 | 34.30 | 13.5 | 56 | 21.2 | CAV |
| 0.163000 | 35.50 | 13.4 | 55 | 19.8 | CAV |
| 0.171000 | 33.10 | 13.2 | 55 | 21.8 | CAV |
| 0.184000 | 29.10 | 13.0 | 54 | 25.2 | CAV |
| 0.193000 | 30.90 | 12.9 | 54 | 23.0 | CAV |
| 0.238000 | 28.50 | 12.3 | 52 | 23.7 | CAV |
| 0.630000 | 20.00 | 11.0 | 46 | 26.0 | CAV |
| 1.000000 | 22.10 | 10.8 | 46 | 23.9 | CAV |
| 1.220000 | 22.80 | 10.7 | 46 | 23.2 | CAV |
| 1.550000 | 22.30 | 10.7 | 46 | 23.7 | CAV |
| 1.590000 | 21.70 | 10.7 | 46 | 24.3 | CAV |
| 1.790000 | 19.40 | 10.7 | 46 | 26.6 | CAV |
| 5.000000 | 13.80 | 10.8 | 46 | 32.2 | CAV |
| 6.830000 | 9.80 | 10.8 | 50 | 40.2 | CAV |
| 9.470000 | 7.60 | 10.9 | 50 | 42.4 | CAV |
| 16.475000 | 7.20 | 11.2 | 50 | 42.8 | CAV |
| 22.175000 | 12.00 | 11.5 | 50 | 38.0 | CAV |
| 22.370000 | 12.00 | 11.5 | 50 | 38.0 | CAV |



166 South Carter, Genoa City, WI 53128

Company:
Model Tested:
Report Number:

Koss Corporation
STRIVA CAP
17289

END OF REPORT

| Revision # | Date | Comments | By |
|------------|----------|--|-------|
| 1.0 | 10-11-11 | Preliminary Release | CB |
| 1.1 | 12-13-11 | Added 802.11b mode data | CB |
| 1.2 | 12-14-11 | Changed model from CAP1.5 to STRIVA CAP | CB |
| 1.3 | 04-23-12 | Added crystal info on page 7 (verification testing done 4/11/12) | JS |
| 1.4 | 05-15-12 | Correction - page 22 | by JS |
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