



EMC Test Data

Client:	Broadcom	Job Number:	J49585
Model:	BCM94309MP w/ new higher gain antenna	T-Log Number:	T49605
Contact:	David Boldy	Proj Eng:	David Bare
Emissions Spec:	FCC Part 15 B, C & E, RSS-210	Class:	-
Immunity Spec:	N/A	Environment:	-

EMC Test Data

For The

Broadcom

Model

**BCM94309MP w/ new higher gain
antenna**



EMC Test Data

Client: Broadcom	Job Number: J49585
Model: BCM94309MP w/ new higher gain antenna	T-Log Number: T49605
	Proj Eng: David Bare
Contact: David Boldy	
Spec: FCC Part 15 B, C & E, RSS-210	Class: -

802.11g Radiated Emissions

Test Specifics

Objective: The objective of this test session is to perform engineering evaluation testing of the EUT with respect to the specification listed above.

Date of Test: 1/7/2003

Config. Used: 1

Test Engineer: jmartinez

Config Change:

Test Location: SVOATS #1

EUT Voltage: 120V/60Hz

General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing.

For radiated emissions testing the measurement antenna was located 3 meters from the EUT.

When measuring the conducted emissions from the EUT's antenna port, the antenna port of the EUT was connected to the spectrum analyzer or power meter via a suitable attenuator to prevent overloading the measurement system. All measurements are corrected to allow for the external attenuators used.

Ambient Conditions:

Temperature: 12°C

Rel. Humidity: 44%

Summary of Results

Run #	Test Performed	Limit	Result	Comment
1	Output Peak Power	15.247(b)	Pass	Refer to run
1a-b	RE, 30 - 24620 MHz - Spurious Emissions	FCC Part 15.209 / 15.247(c)	Pass	-1.3 dB @ 2483 MHz

Modifications Made During Testing:

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.



EMC Test Data

Client: Broadcom	Job Number: J49585
Model: BCM94309MP w/ new higher gain antenna	T-Log Number: T49605
Contact: David Boldy	Proj Eng: David Bare
Spec: FCC Part 15 B, C & E, RSS-210	Class: -

Run #1: Output Power

Channel	Frequency (MHz)	Output Power	Graph reference #
Low	2412	19.4	none
	2417	19.8	none
Mid	2437	19.8	none
	2457	19.7	none
High	2462	19.5	none

Note 1: Measured using peak power meter

Note 2: Meaximun ERP is 19.8+1.45 = 21.25 dBm.

Run #1a: Radiated Spurious Emissions, 30-24120 MHz. Low Channel @ 2412 MHz

Frequency	Level	Pol	15.209 / 15.247		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4824.000	48.5	v	74.0	-25.5	Pk	0	1.1	
4824.000	35.7	v	54.0	-18.3	Avg	0	1.1	
7236.000	52.5	v	74.0	-21.5	Pk	232	1.1	
7236.000	39.2	v	54.0	-14.8	Avg	232	1.1	
4824.000	49.7	h	74.0	-24.3	Pk	198	1.1	
4824.000	36.1	h	54.0	-17.9	Avg	198	1.1	

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental.

Run #1b: Radiated Spurious Emissions, 30-24370 MHz. Center Channel @ 2437 MHz

Frequency	Level	Pol	15.209 / 15.247		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4874.000	48.2	v	74.0	-25.8	Pk	36	1.1	
4874.000	35.9	v	54.0	-18.1	Avg	36	1.1	
7311.000	52.1	v	74.0	-21.9	Pk	0	1.1	
7311.000	39.0	v	54.0	-15.0	Avg	0	1.1	
4874.000	48.4	h	74.0	-25.6	Pk	40	1.1	
4874.000	35.9	h	54.0	-18.1	Avg	40	1.1	

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental.



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Spec: FCC Part 15 B, C & E, RSS-210	Class: -

Run #1c: Radiated Spurious Emissions, 30-24620 MHz. High Channel @ 2462 MHz

Frequency	Level	Pol	15.209 / 15.247		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4924.000	49.5	v	74.0	-24.5	Pk	0	1.1	
4924.000	36.6	v	54.0	-17.4	Avg	0	1.1	
7386.000	52.3	v	74.0	-21.7	Pk	296	1.1	
7386.000	39.2	v	54.0	-14.8	Avg	296	1.1	
4924.000	49.0	h	74.0	-25.0	Pk	6	1.1	
4924.000	36.4	h	54.0	-17.6	Avg	6	1.1	

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental.



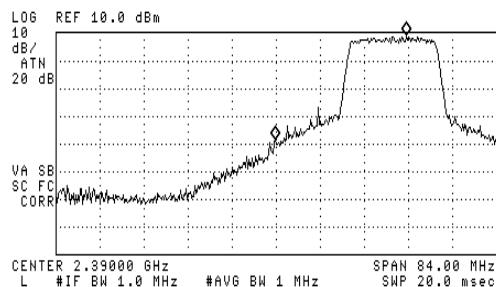
EMC Test Data

Client: Broadcom	Job Number: J49585
Model: BCM94309MP w/ new higher gain antenna	T-Log Number: T49605
Contact: David Boldy	Proj Eng: David Bare
Spec: FCC Part 15 B, C & E, RSS-210	Class: -

Run# 2: Bandedge Plots

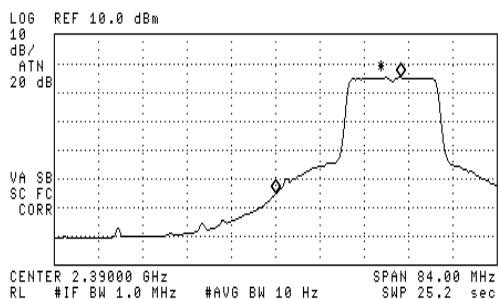
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ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRA -24.99 MHz
-37.45 dB



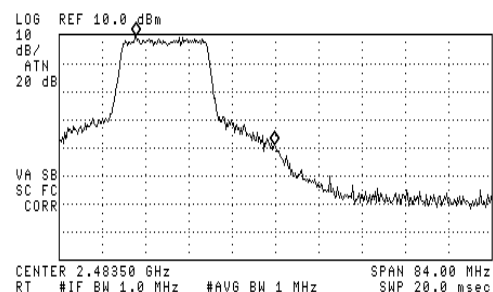
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ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRA -23.73 MHz
-40.34 dB



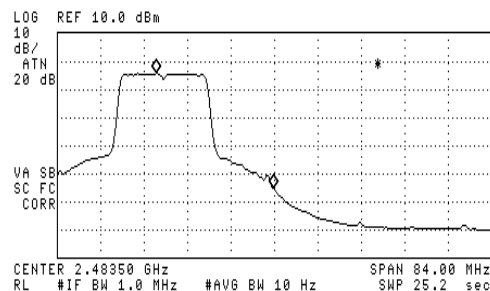
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ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRA 26.88 MHz
-38.67 dB



13:06:01 DEC 20, 2002

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRA 22.68 MHz
-40.72 dB



Fundamental Field Strength Measurements used for bandedge field strength calculations

Frequency	Level	Pol	15.209 / 15.407		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
2412.000	104.5	V	-	-	Pk	-	-	RBW = VBW = 1 MHz
2412.000	92.2	V	-	-	Avg	-	-	RBW = 1MHz, VBW = 10Hz
2412.000	104.5	H	-	-	Pk	-	-	RBW = VBW = 1 MHz
2412.000	92.3	H	-	-	Avg	-	-	RBW = 1MHz, VBW = 10Hz
2462.000	105.1	V	-	-	Pk	-	-	RBW = VBW = 1 MHz
2462.000	92.7	V	-	-	Avg	-	-	RBW = 1MHz, VBW = 10Hz
2462.000	105.0	H	-	-	Pk	-	-	RBW = VBW = 1 MHz
2462.000	93.4	H	-	-	Avg	-	-	RBW = 1MHz, VBW = 10Hz



EMC Test Data

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Contact: David Boldy	
Spec: FCC Part 15 B, C & E, RSS-210	Class: -

Run #3: Band Edge Field Strength Calculations

Frequency	Level	Pol	15.209 / 15.407		Detector	Azimuth	Height	Comments
MHz	dB μ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
2390.0	67.0	v	74.0	-7.0	Pk	-	-	Note 1
2390.0	51.9	v	54.0	-2.1	Avg	-	-	Note 1
2390.0	67.0	h	74.0	-7.0	Pk	-	-	Note 1
2390.0	52.0	h	54.0	-2.0	Avg	-	-	Note 1
2483.5	66.4	v	74.0	-7.6	Pk	-	-	Note 2
2483.5	52.0	v	54.0	-2.0	Avg	-	-	Note 2
2483.5	66.3	v	74.0	-7.7	Pk	-	-	Note 2
2483.5	52.7	v	54.0	-1.3	Avg	-	-	Note 2

Note 1: EUT operating on the lowest channel available in the 2.4 - 2.4835 GHz band. Signal level calculated using the relative measurements in plots (37.5 dBc for peak and 40.3 dBc for average) applied to the highest peak and average field strength measurements of the fundamental signal level.

Note 2: EUT operating on the lowest channel available in the 2.4 - 2.4835 GHz band. Signal level calculated using the relative measurements in plots (38.7 dBc for peak and 40.7 dBc for average) applied to the highest peak and average field strength measurements of the fundamental signal level.



EMC Test Data

Client: Broadcom	Job Number: J49585
Model: BCM94309MP w/ new higher gain antenna	T-Log Number: T49605
	Proj Eng: David Bare
Contact: David Boldy	
Spec: FCC Part 15 B, C & E, RSS-210	Class: -

802.11B Radiated Emissions

Test Specifics

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 1/7/2003

Test Engineer: Jmartinez

Test Location: SVOATS #1

Config. Used: 1

Config Change:

EUT Voltage: 120V/60Hz

General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing

For radiated emissions testing the measurement antenna was located 3 meters from the EUT.

Ambient Conditions:

Temperature: 12°C

Rel. Humidity: 44%

Summary of Results

Run #	Test Performed	Limit	Result	Margin
A	Output Peak Power	15.247(b)	Pass	Refer to run
37625	RE, 30 - 24620 MHz - Spurious Emissions	FCC Part 15.209 / 15.247(c)	Pass	Refer to individual runs

Modifications Made During Testing:

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.



EMC Test Data

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	Proj Eng: David Bare
Contact: David Boldy	
Spec: FCC Part 15 B, C & E, RSS-210	Class: -

Run #A: Output Power 1Mb/s

Channel	Frequency (MHz)	Output Power	Graph reference #
Low	2412	17.3	None
Mid	2437	17.0	None
High	2462	16.4	None

Run #B: Output Power 11Mb/s

Channel	Frequency (MHz)	Output Power	Graph reference #
Low	2412	17.6	None
Mid	2437	17.3	None
High	2462	16.8	None

Note 1: Measured using peak power meter

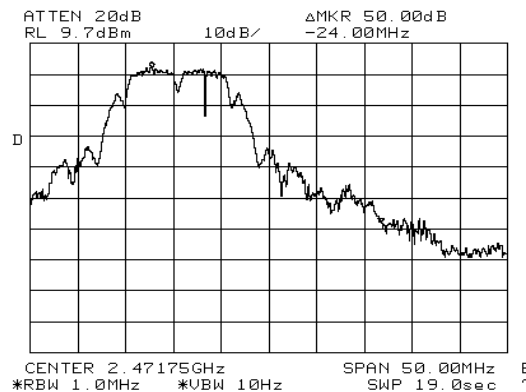
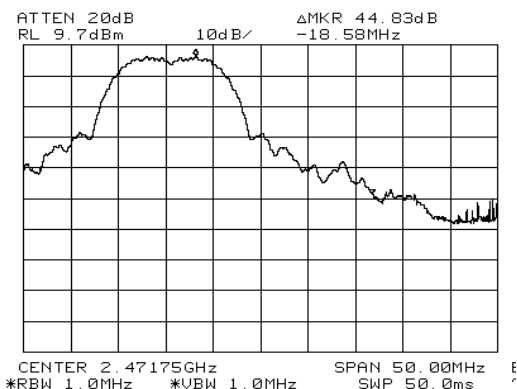
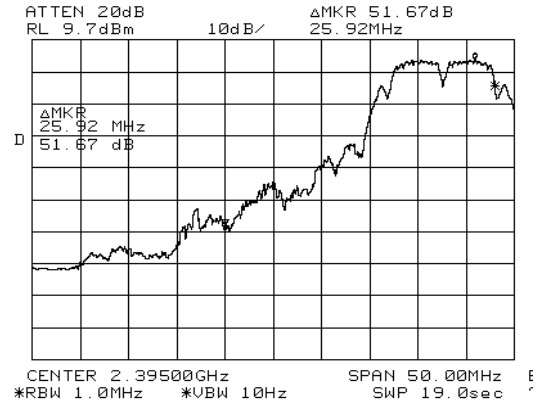
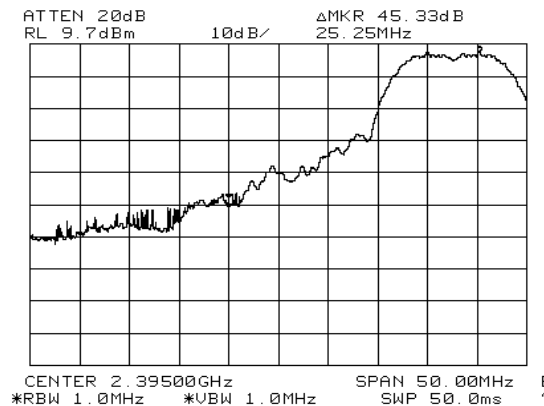
Note 2: Meaximun ERP is $17.6+1.45 = 19.05$ dBm.



EMC Test Data

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Model: BCM94309MP w/ new higher gain antenna	T-Log Number: T49605
Contact: David Boldy	Proj Eng: David Bare
Spec: FCC Part 15 B, C & E, RSS-210	Class: -

Run# 1: Bandedge Plots (1Mb/s)



Fundamental Field Strength Measurements used for bandedge field strength calculations

Frequency	Level	Pol	15.209 / 15.407		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
2412.000	106.5	V	-	-	Pk	-	-	RBW = VBW = 1 MHz
2412.000	102.4	V	-	-	Avg	-	-	RBW = 1MHz, VBW = 10Hz
2412.000	105.9	H	-	-	Pk	-	-	RBW = VBW = 1 MHz
2412.000	101.4	H	-	-	Avg	-	-	RBW = 1MHz, VBW = 10Hz
2462.000	101.3	V	-	-	Pk	-	-	RBW = VBW = 1 MHz
2462.000	96.2	V	-	-	Avg	-	-	RBW = 1MHz, VBW = 10Hz
2462.000	102.4	H	-	-	Pk	-	-	RBW = VBW = 1 MHz
2462.000	97.2	H	-	-	Avg	-	-	RBW = 1MHz, VBW = 10Hz



EMC Test Data

Client: Broadcom	Job Number: J49585
Model: BCM94309MP w/ new higher gain antenna	T-Log Number: T49605
Contact: David Boldy	Proj Eng: David Bare
Spec: FCC Part 15 B, C & E, RSS-210	Class: -

Band Edge Field Strength Calculations (1 Mb/s)

Frequency	Level	Pol	15.209 / 15.407		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
2390.0	61.2	v	74.0	-12.8	Pk	-	-	Note 1
2390.0	50.7	v	54.0	-3.3	Avg	-	-	Note 1
2390.0	60.6	h	74.0	-13.4	Pk	-	-	Note 1
2390.0	49.7	h	54.0	-4.3	Avg	-	-	Note 1
2483.5	56.4	v	74.0	-17.6	Pk	-	-	Note 2
2483.5	46.2	v	54.0	-7.8	Avg	-	-	Note 2
2483.5	57.5	h	74.0	-16.5	Pk	-	-	Note 2
2483.5	47.2	h	54.0	-6.8	Avg	-	-	Note 2

Note 1: EUT operating on the lowest channel available in the 2.4 - 2.4835 GHz band. Signal level calculated using the relative measurements in plots (45.3 dBc for peak and 51.7dBc for average) applied to the highest peak and average field strength measurements of the fundamental signal level.

Note 2: EUT operating on highest channel available in the 2.4 - 2.4835 GHz band. Signal level calculated using the relative measurements in plots (44.8 dBc for peak and 50.0dBc for average) applied to the highest peak and average field strength measurements of the fundamental signal level.

Run #2a: Radiated Spurious Emissions, 30-25000 MHz. Low Channel @ 2412 MHz Rate = 1Mb/s

Frequency	Level	Pol	15.209 / 15.247		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4824.00	46.2	v	74.0	-27.8	Pk	350	1.1	
4824.00	35.0	v	54.0	-19.0	Avg	350	1.1	
7236.00	49.6	v	74.0	-24.4	Pk	350	1.1	
7236.00	38.4	v	54.0	-15.6	Avg	350	1.1	
7236.00	46.6	h	74.0	-27.4	Pk	350	1.1	
7236.00	39.9	h	54.0	-14.1	Avg	350	1.1	
4824.00	49.7	h	74.0	-24.3	Pk	130	1.2	
4824.00	36.1	h	54.0	-17.9	Avg	130	1.2	

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental.



EMC Test Data

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Model: BCM94309MP w/ new higher gain antenna	T-Log Number: T49605
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Spec: FCC Part 15 B, C & E, RSS-210	Class: -

Run #2b: Radiated Spurious Emissions, 30-25000 MHz. Center Channel @ 2437 MHz Rate = 1Mb/s

Frequency	Level	Pol	15.209 / 15.247		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4874.00	46.8	v	74.0	-27.2	Pk	94	1.1	
4874.00	35.2	v	54.0	-18.8	Avg	94	1.1	
7311.00	50.4	v	74.0	-23.6	Pk	299	1.1	
7311.00	38.9	v	54.0	-15.1	Avg	299	1.1	
4874.00	48.4	h	74.0	-25.6	Pk	0	1.1	
4874.00	35.9	h	54.0	-18.1	Avg	0	1.1	
7311.00	51.3	h	74.0	-22.7	Pk	360	1.1	
7311.00	39.0	h	54.0	-15.0	Avg	360	1.1	

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental.

Note 2:

Run #2c: Radiated Spurious Emissions, 30-25000 MHz. High Channel @ 2462 MHz Rate = 1Mb/s

Frequency	Level	Pol	15.209 / 15.247		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4924.00	46.0	v	74.0	-28.0	Pk	0	1.1	
4924.00	34.8	v	54.0	-19.2	Avg	0	1.1	
4924.00	51.0	h	74.0	-23.0	Pk	200	1.1	
4924.00	38.6	h	54.0	-15.4	Avg	200	1.1	
7386.00	48.7	v	74.0	-25.3	Pk	0	1.1	
7386.00	36.4	v	54.0	-17.6	Avg	0	1.1	
7386.00	51.9	h	74.0	-22.1	Pk	0	1.1	
7386.00	38.1	h	54.0	-15.9	Avg	0	1.1	

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental.



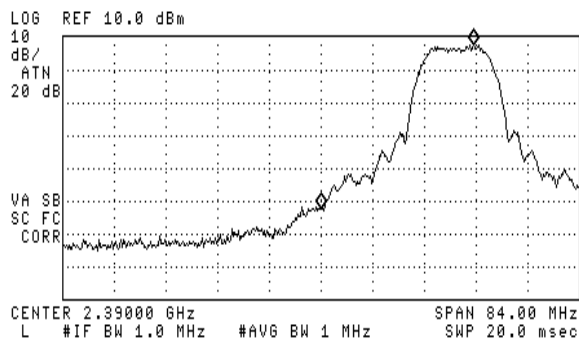
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Model: BCM94309MP w/ new higher gain antenna	T-Log Number: T49605
Contact: David Boldy	Proj Eng: David Bare
Spec: FCC Part 15 B, C & E, RSS-210	Class: -

Run# 3 Bandedge Plots (11Mb/s)

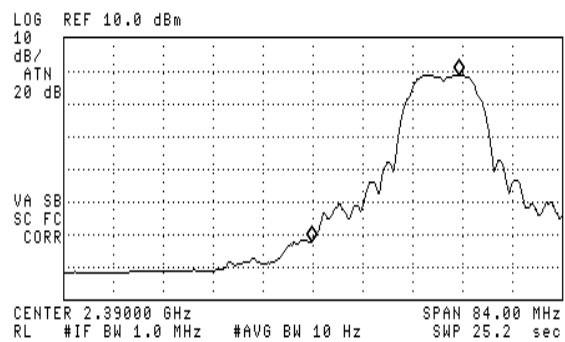
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ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRΔ -24.78 MHz
-49.53 dB



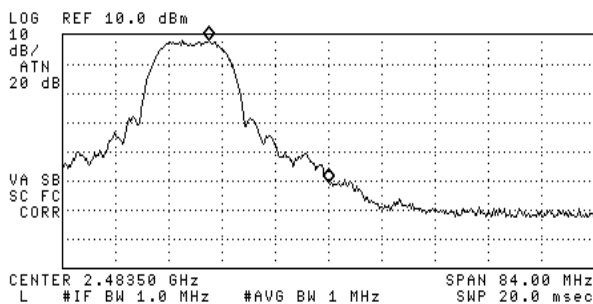
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ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRΔ -24.78 MHz
-50.86 dB



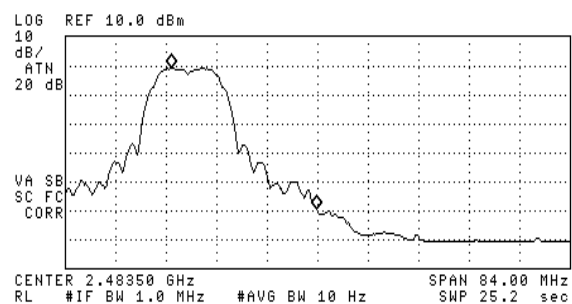
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ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRΔ -18.90 MHz
48.44 dB



10:27:37 DEC 20, 2002

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRΔ 24.15 MHz
-48.66 dB





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Spec: FCC Part 15 B, C & E, RSS-210	Class: -

Fundamental Field Strength Measurements used for bandedge field strenegth calculations

Frequency	Level	Pol	15.209 / 15.407		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
2412.000	106.4	V	-	-	Pk	-	-	RBW = VBW = 1 MHz
2412.000	97.6	V	-	-	Avg	-	-	RBW = 1MHz, VBW = 10Hz
2412.000	109.0	H	-	-	Pk	-	-	RBW = VBW = 1 MHz
2412.000	99.8	H	-	-	Avg	-	-	RBW = 1MHz, VBW = 10Hz
2462.000	109.6	V	-	-	Pk	-	-	RBW = VBW = 1 MHz
2462.000	98.0	V	-	-	Avg	-	-	RBW = 1MHz, VBW = 10Hz
2462.000	105.7	H	-	-	Pk	-	-	RBW = VBW = 1 MHz
2462.000	96.0	H	-	-	Avg	-	-	RBW = 1MHz, VBW = 10Hz

Band Edge Field Strength Calculations (11 Mb/s)

Frequency	Level	Pol	15.209 / 15.407		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
2390.0	56.9	v	74.0	-17.1	Pk	-	-	Note 1
2390.0	46.7	v	54.0	-7.3	Avg	-	-	Note 1
2390.0	59.5	h	74.0	-14.5	Pk	-	-	Note 1
2390.0	48.9	h	54.0	-5.1	Avg	-	-	Note 1
2483.5	61.2	v	74.0	-12.8	Pk	-	-	Note 2
2483.5	49.3	v	54.0	-4.7	Avg	-	-	Note 2
2483.5	57.3	h	74.0	-16.7	Pk	-	-	Note 2
2483.5	47.3	h	54.0	-6.7	Avg	-	-	Note 2

Note 1: EUT operating on the lowest channel available in the 2.4 - 2.4835 GHz band. Signal level calculated using the relative measurements in plots (49.5 dBc for peak and 50.9 dBc for average) applied to the highest peak and average field strength measurements of the fundamental signal level.

Note 2: EUT operating on highest channel available in the 2.4 - 2.4835 GHz band. Signal level calculated using the relative measurements in plots (48.4 dBc for peak and 48.7 dBc for average) applied to the highest peak and average field strength measurements of the fundamental signal level.



EMC Test Data

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Model: BCM94309MP w/ new higher gain antenna	T-Log Number: T49605
Contact: David Boldy	Proj Eng: David Bare
Spec: FCC Part 15 B, C & E, RSS-210	Class: -

Run #4a: Radiated Spurious Emissions, 30-25000 MHz. Low Channel @ 2412 MHz
Rate = 11Mb/s

Frequency	Level	Pol	15.209 / 15.247		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4824.00	47.2	v	74.0	-26.8	Pk	350	1.1	
4824.00	36.0	v	54.0	-18.0	Avg	350	1.1	
7236.00	52.7	v	74.0	-21.3	Pk	350	1.1	
7236.00	41.5	v	54.0	-12.5	Avg	350	1.1	
7236.00	56.0	h	74.0	-18.0	Pk	350	1.1	
7236.00	42.4	h	54.0	-11.6	Avg	350	1.1	
4824.00	54.6	h	74.0	-19.4	Pk	130	1.2	
4824.00	42.3	h	54.0	-11.7	Avg	130	1.2	

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental.

Run #4b: Radiated Spurious Emissions, 30-25000 MHz. Center Channel @ 2437 MHz
Rate = 11Mb/s

Frequency	Level	Pol	15.209 / 15.247		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4874.00	47.4	v	74.0	-26.6	Pk	0	1.1	
4874.00	35.7	v	54.0	-18.3	Avg	0	1.1	
7311.00	49.9	v	74.0	-24.1	Pk	321	1.1	
7311.00	38.5	v	54.0	-15.5	Avg	321	1.1	
4874.00	50.3	h	74.0	-23.7	Pk	360	1.1	
4874.00	37.9	h	54.0	-16.1	Avg	360	1.1	
7311.00	52.1	h	74.0	-21.9	Pk	2	1.1	
7311.00	39.6	h	54.0	-14.4	Avg	2	1.1	

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental.

Note 2:



EMC Test Data

Client: Broadcom	Job Number: J49585
Model: BCM94309MP w/ new higher gain antenna	T-Log Number: T49605
	Proj Eng: David Bare
Contact: David Boldy	
Spec: FCC Part 15 B, C & E, RSS-210	Class: -

Run #4c: Radiated Spurious Emissions, 30-25000 MHz. High Channel @ 2462 MHz
Rate = 11Mb/s

Frequency	Level	Pol	15.209 / 15.247		Detector	Azimuth	Height	Comments
MHz	dB μ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4924.00	47.0	v	74.0	-27.0	Pk	0	1.1	
4924.00	35.7	v	54.0	-18.3	Avg	0	1.1	
4924.00	50.1	h	74.0	-23.9	Pk	361	1.1	
4924.00	38.2	h	54.0	-15.8	Avg	361	1.1	
7386.00	52.3	v	74.0	-21.7	Pk	0	1.1	
7386.00	40.9	v	54.0	-13.1	Avg	0	1.1	
7386.00	50.5	h	74.0	-23.5	Pk	0	1.1	
7386.00	38.6	h	54.0	-15.4	Avg	0	1.1	

Note 1:

For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit was set 20dB below the level of the fundamental.