

FCC Test Report

Test report no.: EMC_799FCC15.247_2004_C2P_2

FCC Part 15.247 for DSSS systems / CANADA RSS-210

EUT: WLAN Model: BCM94318MPG

Modular Approval

FCC ID: QDS-BRCM1016 IC ID: 4324A-BRCM1016



Accredited according to ISO/IEC 17025





FCC listed # 101450

IC recognized # 3925

CETECOM Inc.

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- 1 General information
- 1.1 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM Inc USA.

TEST REPORT PREPARED BY: EMC Engineer: Harpreet Sidhu

1.2 Testing laboratory

CETECOM Inc.

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E-mail: lothar.schmidt@cetecomusa.com

Internet: www.cetecom.com



1.3 Details of applicant

Name : Broadcom corporation
Street : 190 Mathilda Place
City / Zip Code : Sunnyvale, CA 94086

Country : USA

Contact : Daniel Lawless
Telephone : 408-922-5870
Tele-fax : 408-543-3399

e-mail : <u>dlawless@broadcom.com</u>

1.4 Application details

Date of receipt test item : 2005-03-17

Date of test : 2005-03-17/28/29

1.5 Test item

Manufacturer : Applicant

Model No. : BCM94318MPG

Host : Test fixture

Description : Broadcom 802.11g mini PCI card

FCC ID : QDS-BRCM1016 IC ID : 4324A-BRCM1016

Additional information

Frequency : 2412MHz - 2462MHz

Type of modulation : DSSS / OFDM (orthogonal frequency division multiplexing)

Number of channels : 11

Antenna : 5dBi max. gain antenna

(Netgear MR814 Omni-directional Dipole antenna)

Power supply : 3.3 VDC from Host

Output power : 28.95dBm (785.24mW) conducted peak power

Extreme temp. Tolerance : 0° C to $+70^{\circ}$ C

1.6 Test standards: FCC Part 15 §15.247 / CANADA RSS-210



PROJECT OVERVIEW:

This test report carries all radiated measurements required as per FCC 15.247 for doing a class-2 permissive change on WLAN mini PCI card model# BCM94318MPG tested in test fixture as per DA001407 requirements for modular transmitter approval. Conducted power was measured and found within limits of C2P change rules.

Following are the changes filed under this application;

Change #1 Adding alternate Skyworks power amp. The associated layout and filter circuitry is the same. The average power in packet is maintained the same, 16.5dBm OFDM and 18dBm CCK.

Change #2 Add additional antenna:

Netgear MR814 Omni-directional Dipole antenna Peak gain 5dBi.

All measurements are done with 5dBi max. gain antenna. WLAN was tested for spurious emissions in both DSSS & OFDM modes at different data rates (1, 2, 5.5, 6, 11, and 54) to ensure compliance of the whole device. Test report shows only worst-case test results of all data rates with following power levels.

802.11g mode: 16.5dBm 802.11b mode: 18dBm



No deviations from the technical specification(s) were ascertained in the course of the test Performed Final Verdict: Only "passed" if all single measurements are "passed") Passed Technical responsibility for area of testing: O05-04-06 EMC & Radio Lothar Schmidt (Manager)	t est report in	o.: EMC_799FCC15.247		sue date: 2005-04-06	Page 5 (43)
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Final Verdict: (Only "passed" if all single measurements are "passed") Passed Technical responsibility for area of testing: 2005-04-06 EMC & Radio Lothar Schmidt (Manager)	2.1	Summary of test res	ults		
(Only "passed" if all single measurements are "passed") Technical responsibility for area of testing: 2005-04-06 EMC & Radio Lothar Schmidt (Manager)	No devi	ations from the techni			he course of the tests
\	(Only "passo			")	Passed
\	Technical r				
\		esnonsibility for are	a of testing:		
Date Section Name Signature	1 centileur 1	esponsibility for are			Och ich
				Manager)	Signature
Responsible for test report and project leader:	2005-04-06 Date	EMC & Radio Section	Lothar Schmidt (I Name	Manager)	

Name

2005-04-06 EMC & Radio Harpreet Sidhu (EMC Engineer)

Section

Date



2.2 Test report

TEST REPORT

Test report no.: EMC_799FCC15.247_2004_C2P_2



Test report no.: EMC_799FCC15.247_2004_C2P_2	Issue date: 2005-04-06	Page 7 (43)	
TEST REPORT REFERENCE			
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MAXIMUM PEAK OUTPUT POWER

§ 15.247 (b) (1)

(Conducted)

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)			
Frequen	cy (MHz)	2412		2437	2462
T _{nom} (23)°C	V _{nom} (3.3) VDC	Pk 28.59		28.95	28.57
Measurement uncertainty				±0.5dBm	

RBW / VBW: 10MHz

RBW / VBW should be equal to or greater than the 6dB BW All measured values are corrected by 10log 6dB BW / used BW

(Therefore correction factor of 2.18, 2.16 & 2.16 is added to low, mid& high channel measurements respectively)

LIMIT

SUBCLAUSE § 15.247 (b) (1)

Frequency range	RF power output
2400-2483.5 MHz	1.0 Watt / 30dBm

^{*}To comply with following;



MAXIMUM PEAK OUTPUT POWER (RADIATED)

§ 15.247 (b) (1)

EIRP:

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)			
Frequency (MHz)		2412	2437	2462	
T _{nom} (23)°C V _{nom} (3.3) VDC		27.06	27.46	27.85	
Measurement uncertainty			±0.5dBm		

RBW / VBW: 10MHz

LIMIT

SUBCLAUSE § 15.247 (b) (1)

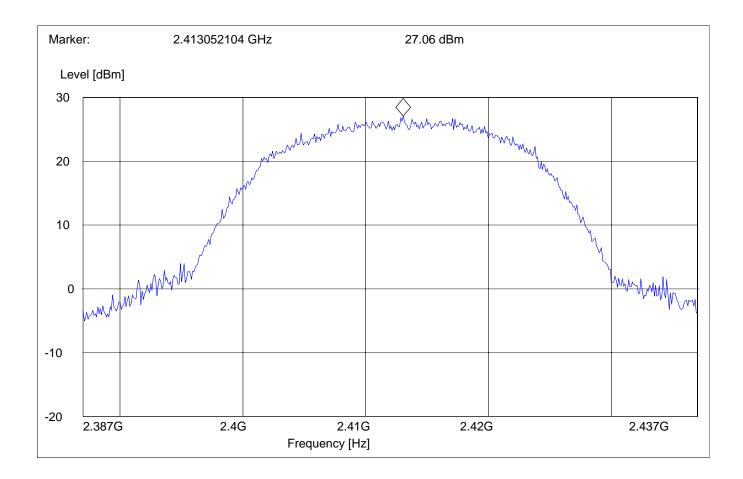
Frequency range	RF power output
2400-2483.5 MHz	30dBm on Conducted



PEAK OUTPUT POWER (RADIATED)

EIRP

Lowest Channel: 2412MHz

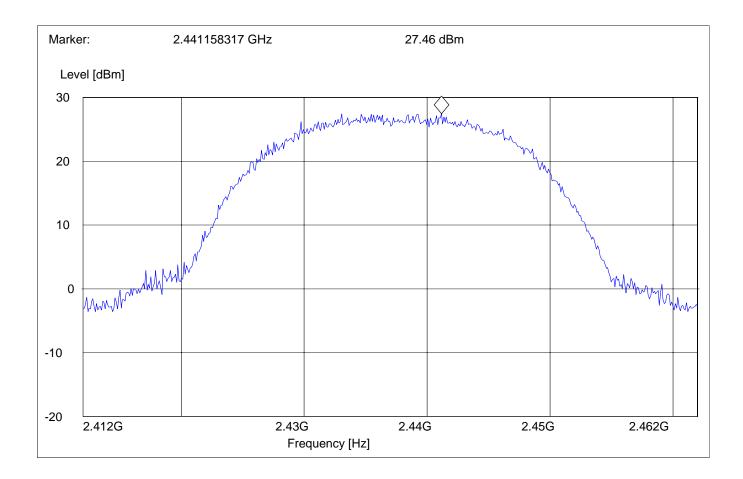




PEAK OUTPUT POWER (RADIATED)

EIRP

Mid Channel: 2437MHz

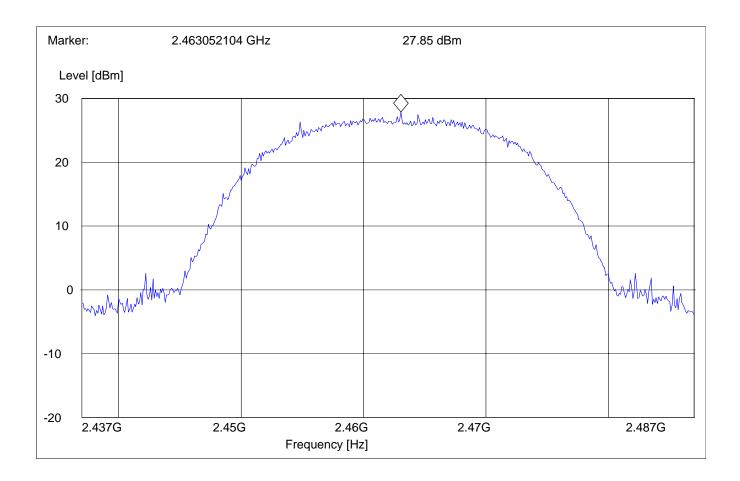




PEAK OUTPUT POWER (RADIATED)

EIRP

Highest Channel: 2462MHz





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BAND EDGE COMPLIANCE (802.11g)

§15.247 (c)

Data rate: 1Mbps

Power Level: 18dBm avg. power in packet

Low frequency section (spurious in the restricted band 2310 – 2390 MHz)

(Average measurement)

Operating condition Tx at 2412MHz

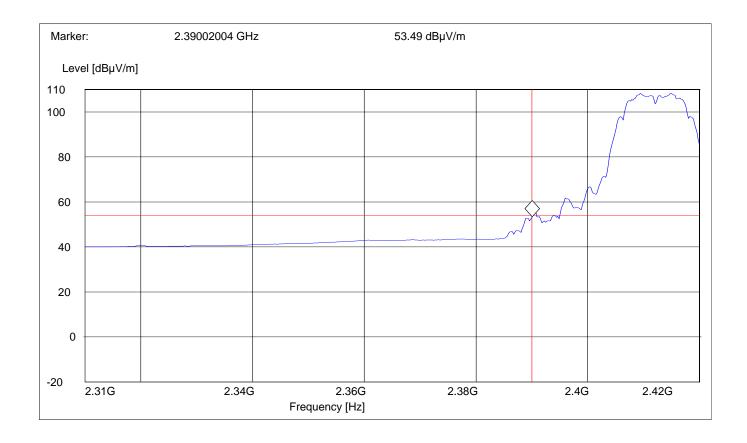
SWEEP TABLE "FCC15.247 LBE AVG"

Limit Line 54dBµV

RBW Transducer Start Stop Detector Meas. **VBW**

Frequency Frequency Bandw. Time

2.31 GHz 2.412 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





BAND EDGE COMPLIANCE

§15.247 (c)

Data rate: 54Mbps

Power Level: 16.5dBm avg. power in packet

Low frequency section (spurious in the restricted band 2310 – 2390 MHz)

(Peak measurement)

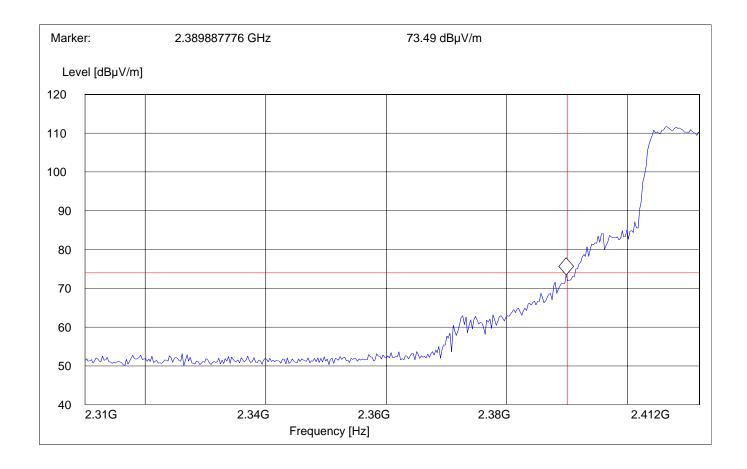
Operating condition : Tx at 2412MHz SWEEP TABLE : "FCC15.247 LBE_Pk"

Limit Line : 74dBµV

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.31 GHz 2.412 GHz MaxPeak Coupled 1 MHz 1MHz #326 horn (dBi)





BAND EDGE COMPLIANCE

§15.247 (c)

Data rate: 1Mbps

Power Level: 18dBm avg. power in packet

High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)

(Average measurement)

Operating condition : Tx at 2462MHz

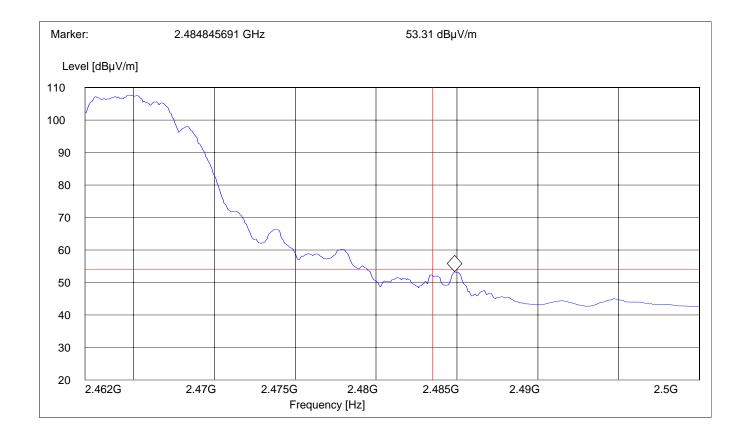
SWEEP TABLE : "FCC15.247 HBE_AVG"

 $Limit\ Line \qquad \qquad : \qquad \qquad 54dB\mu V$

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.462 GHz 2.5 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





BAND EDGE COMPLIANCE

§15.247 (c)

Data rate: 54Mbps

Power Level: 16.5dBm avg. power in packet

High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)

(Peak measurement)

Operating condition : Tx at 2462MHz

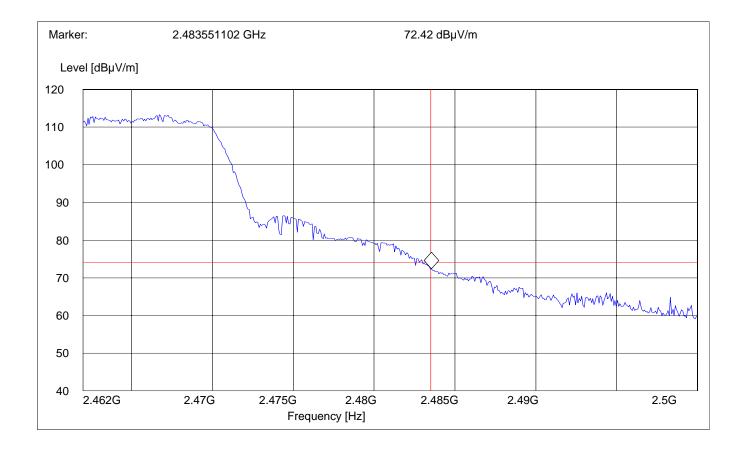
SWEEP TABLE : "FCC15.247 HBE_PK"

 $Limit\ Line \qquad \qquad : \qquad \qquad 74dB\mu V$

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.462 GHz 2.5 GHz MaxPeak Coupled 1 MHz 1MHz #326 horn (dBi)





EMISSION LIMITATIONS (802.11g)

§ 15.247 (c) (1)

Transmitter (Radiated)
Data rate: 54Mbps

Power Level: 16.5dBm avg. power in packet

LIMITS

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions, which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

NOTE:

- 1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 26.5 GHz very short cable connections to the antenna was used to minimize the noise level.
- 2. All measurements are done in peak mode unless specified with the plots.

Results for the radiated measurements below 30MHz according § 15.33

Frequency	Measured values	Remarks	
9KHz – 30MHz	No emissions found, caused by the EUT	This is valid for all the tested channels	



EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Power level: 16.5dBm for 802.11g mode

Transmit at	Lowest channel l	Frequency 2412MH	Z
Frequency (MHz)		Level (dBµV/m)	
	Peak	Average 54Mbps	Average 6Mbps
	SEE PLOT	'S	
Transmit at	Middle channel I	Fraguency 2437MH	7
Frequency (MHz)	at Middle channel Frequency 2437MHz Level (dBµV/m)		
	Peak	Average 54Mbps	Average 6Mbps
	SEE PLOT	'S	
Transmit at	Highest channel	Frequency 2462MH	Z
Frequency (MHz)		Level (dBµV/m)	
	Peak	Average 54Mbps	Average 6Mbps
	SEE PLOT	TS	



EMISSION LIMITATIONS - Radiated (Transmitter) § 15.247 (c) (1)

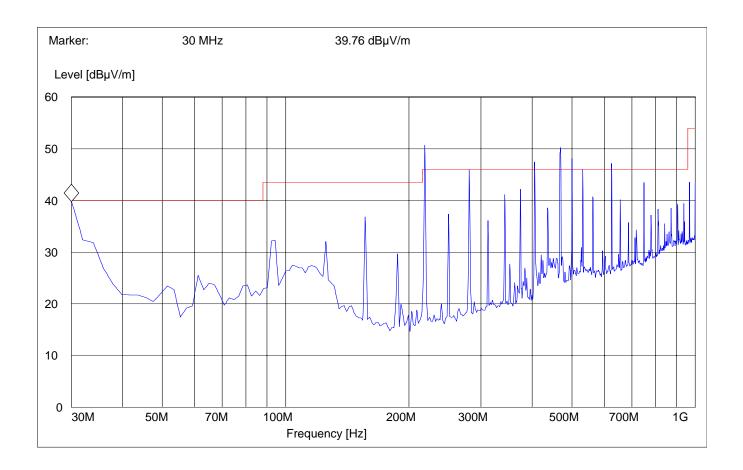
30MHz – 1GHz Antenna: Vertical

Note: This plot is valid for low, mid, high channels for all data rates and power levels (worst-case plot) All peaks above the limit line are confirmed coming from test fixture. Refer to plots on next pages.

SWEEP TABLE: "Spuri hi 30-1G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time VBW





EMISSION LIMITATIONS - Radiated (Transmitter) § 15.247 (c) (1)

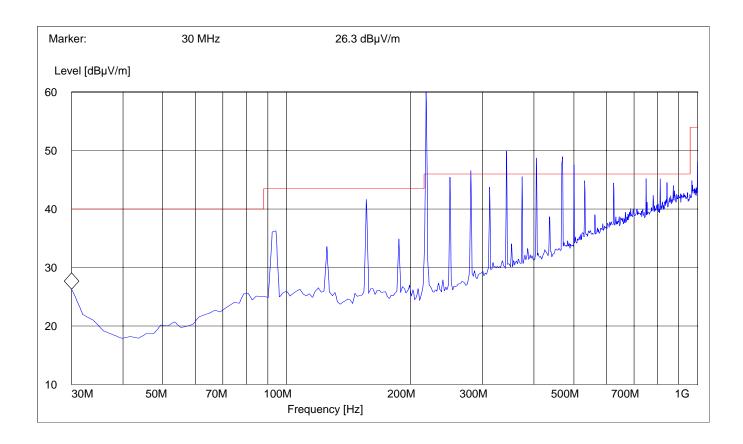
30MHz – 1GHz Antenna: Horizontal

Note: This plot is valid for low, mid, high channels for all data rates and power levels (worst-case plot) All peaks above the limit line are confirmed coming from test fixture. Refer to plots on next pages.

SWEEP TABLE: "Spuri hi 30-1G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time VBW





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

30MHz - 1GHz

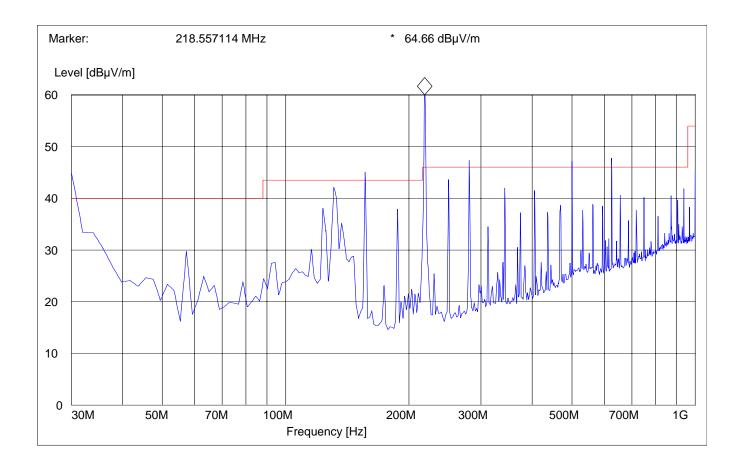
NOTE: Test fixture only

Antenna: Vertical

SWEEP TABLE: "Spuri hi 30-1G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time VBW





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

30MHz – 1GHz

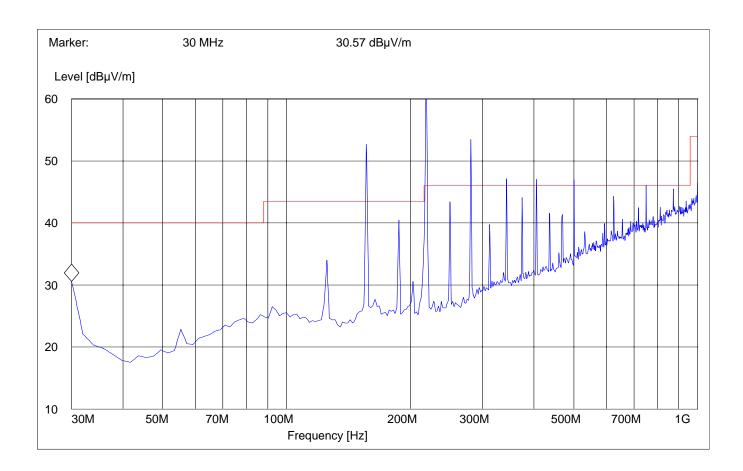
NOTE: Test fixture only

Antenna: Horizontal

SWEEP TABLE: "Spuri hi 30-1G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time VBW





EMISSION LIMITATIONS - Radiated (Transmitter) § 15.247 (c) (1)

Lowest Channel (2412MHz): 1GHz – 3GHz

Data rate: 54Mbps

Power Level: 16.5dBm avg. power in packet

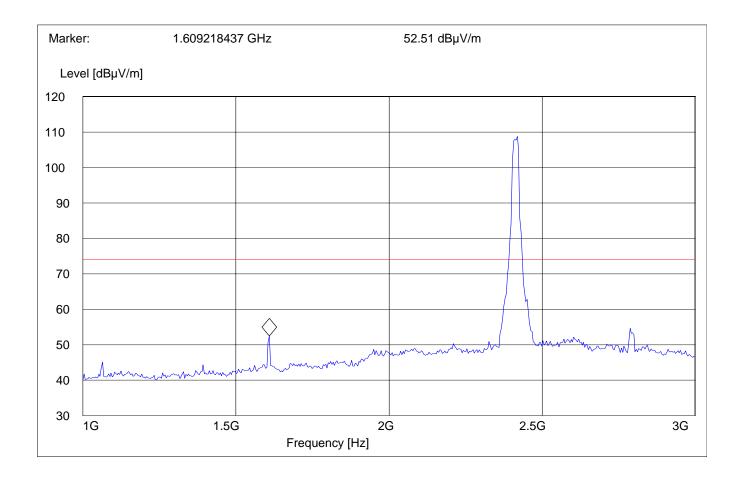
Note: Peak above the limit line is the carrier freq.

SWEEP TABLE: "Spuri hi 1-3G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter) § 15.247 (c) (1)

Lowest Channel (2412MHz): 3GHz - 18GHz

Data rate: 54Mbps

Power Level: 16.5dBm avg. power in packet

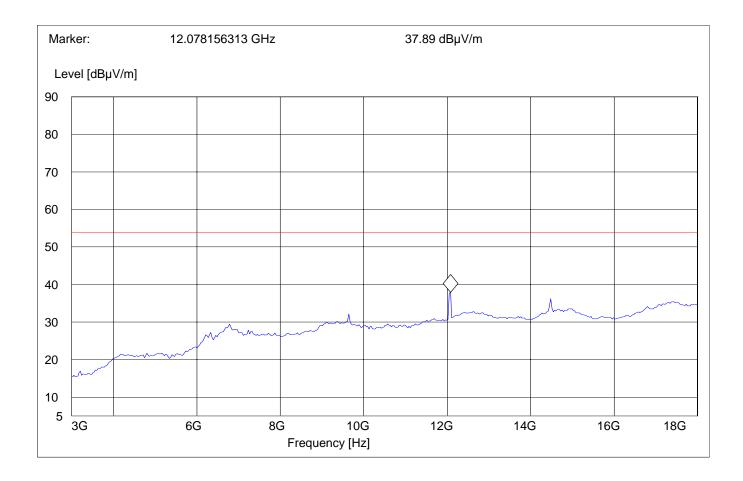
Average Measurement

SWEEP TABLE: "Spuri hi 3-18G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter) § 15.247 (c) (1)

Lowest Channel (2412MHz): 3GHz - 18GHz

Data rate: 1Mbps

Power Level: 18dBm avg. power in packet

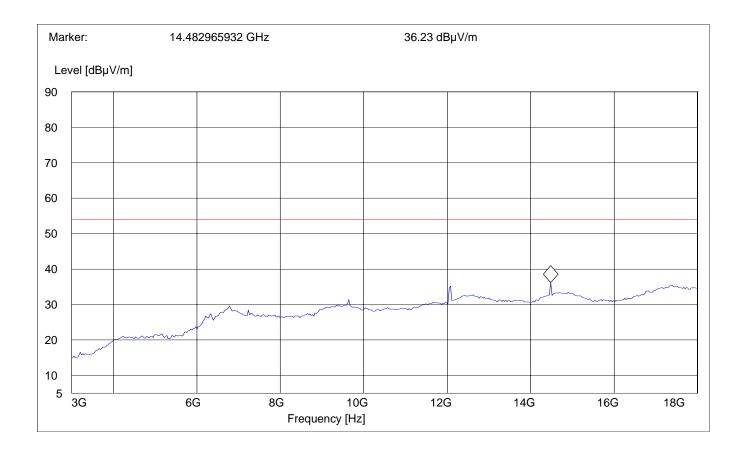
Average Measurement

SWEEP TABLE: "Spuri hi 3-18G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Mid Channel (2437MHz): 1GHz - 3GHz

Data rate: 54Mbps

Power Level: 16.5dBm avg. power in packet

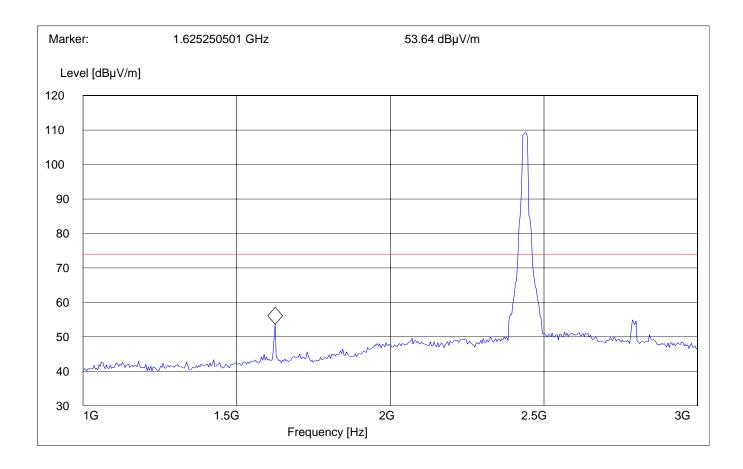
Note: The peak above the limit line is the carrier freq.

SWEEP TABLE: "Spuri hi 1-3G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter) § 15.247 (c) (1)

Mid Channel (2437MHz): 3GHz - 18GHz

Data rate: 54Mbps

Power Level: 16.5dBm avg. power in packet

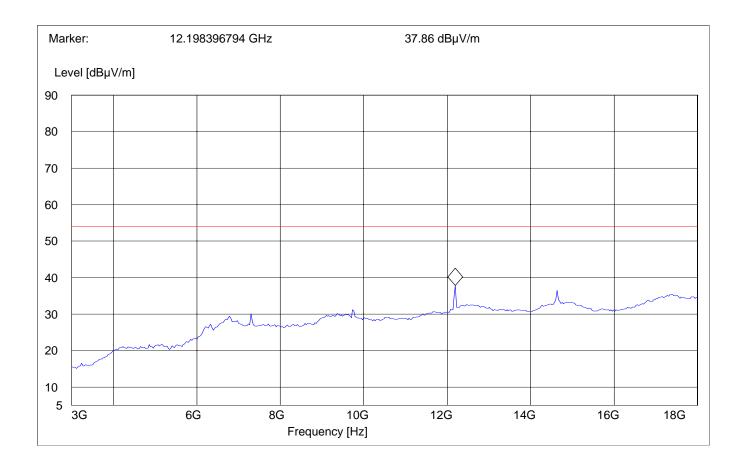
Average Measurement

SWEEP TABLE: "Spuri hi 3-18G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter) § 15.247 (c) (1)

Mid Channel (2437MHz): 3GHz - 18GHz

Data rate: 1Mbps

Power Level: 18dBm avg. power in packet

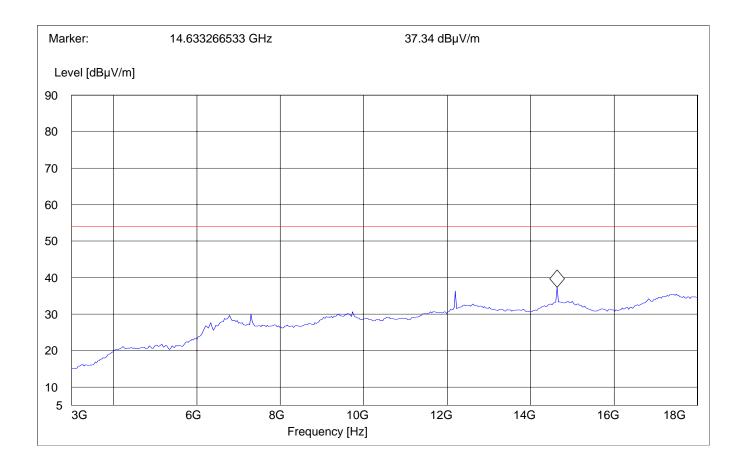
Average Measurement

SWEEP TABLE: "Spuri hi 3-18G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter) § 15.247 (c) (1)

Highest Channel (2462MHz): 1GHz - 3GHz

Data rate: 54Mbps

Power Level: 16.5dBm avg. power in packet

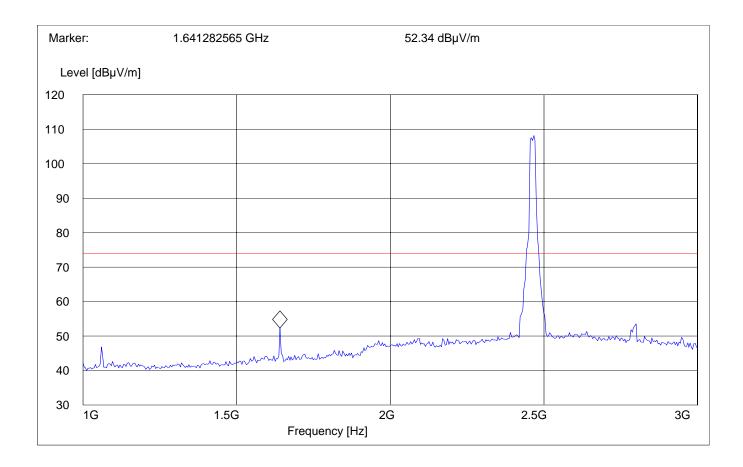
Note: The peak above the limit line is the carrier freq.

SWEEP TABLE: "Spuri hi 1-3G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter) § 15.247 (c) (1)

Highest Channel (2462MHz): 3GHz - 18GHz

Data rate: 54Mbps

Power Level: 16.5dBm avg. power in packet

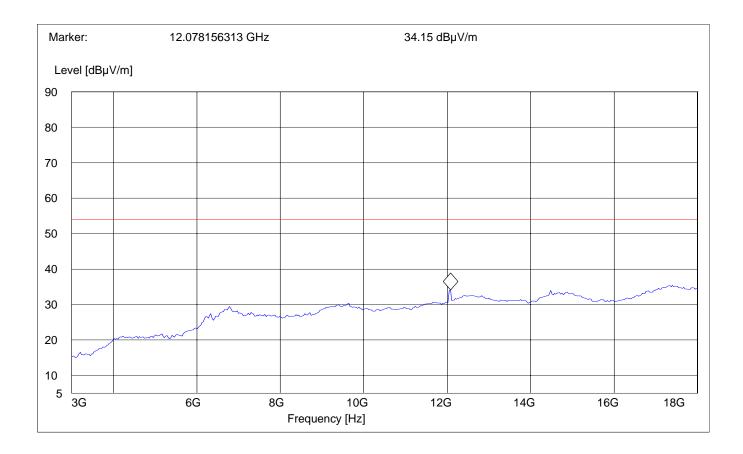
Average Measurement

SWEEP TABLE: "Spuri hi 3-18G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter) § 15.247 (c) (1)

Highest Channel (2462MHz): 3GHz - 18GHz

Data rate: 1Mbps

Power Level: 18dBm avg. power in packet

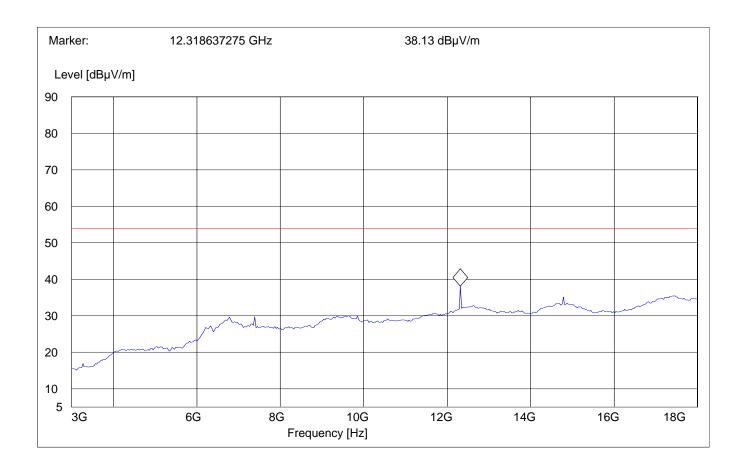
Average Measurement

SWEEP TABLE: "Spuri hi 3-18G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

18GHz - 26.5GHz

Note: This plot is valid for low, mid, high channels (worst-case plot)

Data rate: 54Mbps

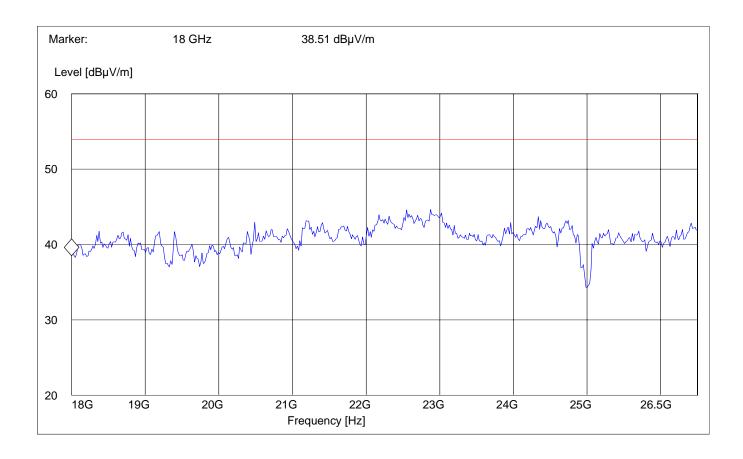
Power Level: 16.5dBm avg. power in packet

SWEEP TABLE: "Spuri hi 18-26.5G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

18 GHz 26.5 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





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CONDUCTED EMISSIONS

§ 15.107/207

Measured with AC/DC power adapter

SWEEP TABLE: "55022 cond"

EN 55022 for 150KHz-30MHz Short Description:

Stop Detector Meas Transducer Start

Frequency Frequency Time Bandw.

150.0 kHz 30.0 MHz MaxPeak Coupled 10 kHzNone

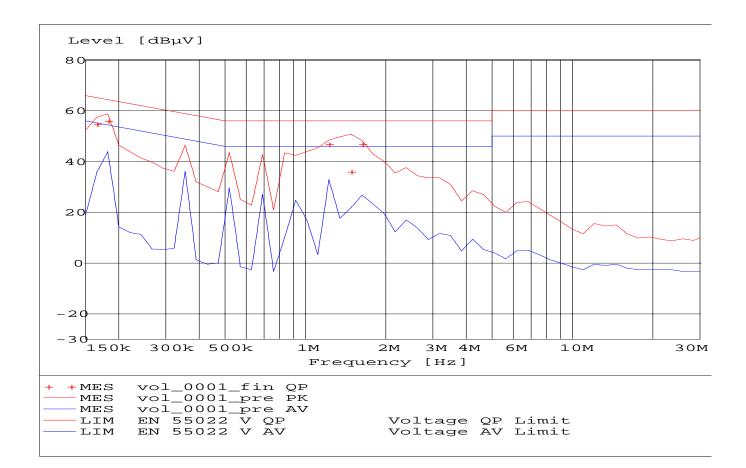
Technical specification: 15.107 / 15.207 (Revised as of August 20, 2002)

Limit

Frequency of Emission (MHz)	Conducted Limit (dBµV)				
	Quasi-Peak	Average			
0.15 - 0.5	66 to 56*	56 to 46*			
0.5 – 5	56	46			
5 – 30	60	50			
* Decreases with logarithm of the frequency					

ANALYZER SETTINGS: RBW = 10KHz

VBW = 10KHz





MEASUREMENT	RESULT:	"vol	_0001_	_fin	QP"
_	_		_	1	

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dΒμV	đВ	dΒμV	đВ		
0.165000	54.70	0.0	65	10.5	2	
0.181500	55.90	0.0	64	8.5	1	
1.221041	46.80	0.0	56	9.2	2	
1.477460	35.90	0.0	56	20.1	1	
1.625206	46.90	0.0	56	9.1	1	



RECEIVER SPURIOUS RADIATION

§ 15.109

Limits

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

NOTE:

The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 26.5 GHz very short cable connections to the antenna was used to minimize the noise level.



RECEIVER SPURIOUS RADIATION

§ 15.109

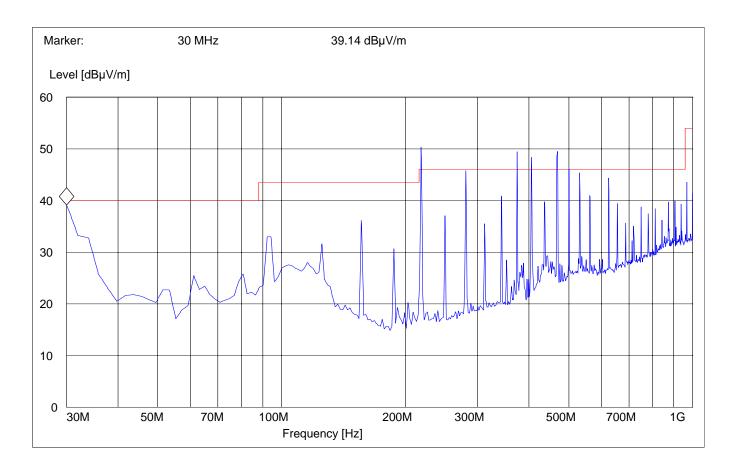
30MHz - 1GHz

Note: This plot is valid for both polarities (worst-case plot). All peaks above the limit line are confirmed coming from test fixture. Refer to plot on next page.

SWEEP TABLE: "Spuri hi 30-1G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time VBW





RECEIVER SPURIOUS RADIATION

§ 15.109

30MHz – 1GHz Test fixture only

SWEEP TABLE:

"Spuri hi 30-1G"

Start Stop Detector

etector Meas.

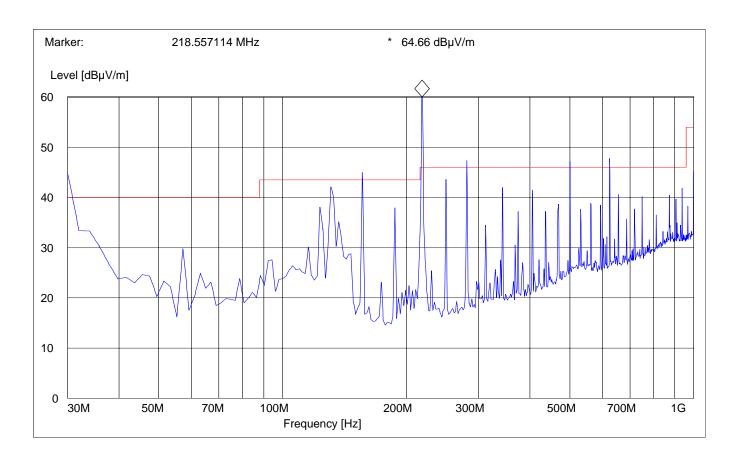
Transducer

Frequency Frequency Tin 30.0 MHz 1.0 GHz MaxPeak Co

Time VBW Coupled 100 kF

RBW

100 kHz 3141-#1186





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RECEIVER SPURIOUS RADIATION

§ 15.109

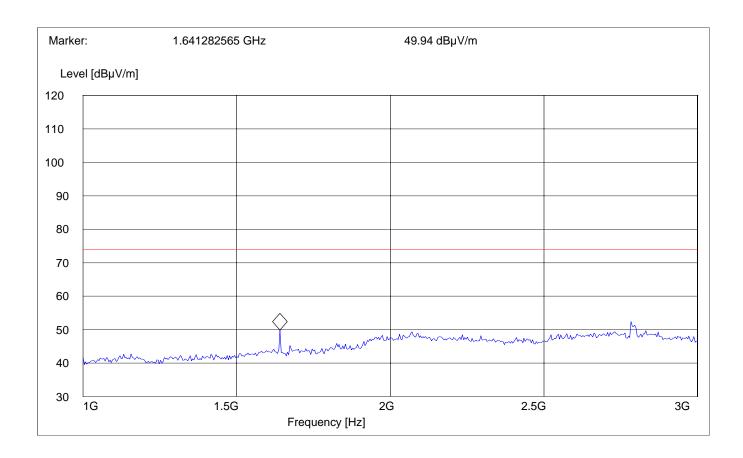
1GHz - 3GHz

SWEEP TABLE: "Spuri hi 1-3G"

Detector Meas. **RBW** Transducer Start Stop

Frequency Frequency Time Bandw. VBW

1.0 GHz 3.0 GHz #326 horn (dBi) MaxPeak Coupled 1 MHz 1MHz





RECEIVER SPURIOUS RADIATION

§ 15.109

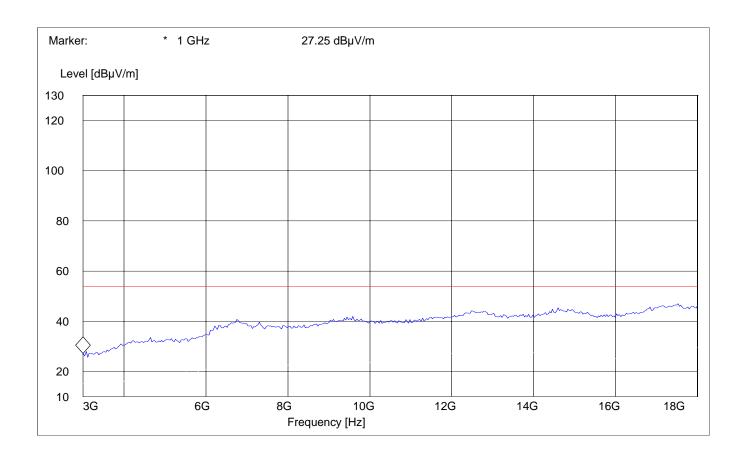
3GHz - 18GHz

SWEEP TABLE: "Spuri hi 3-18G"

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





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RECEIVER SPURIOUS RADIATION

§ 15.109

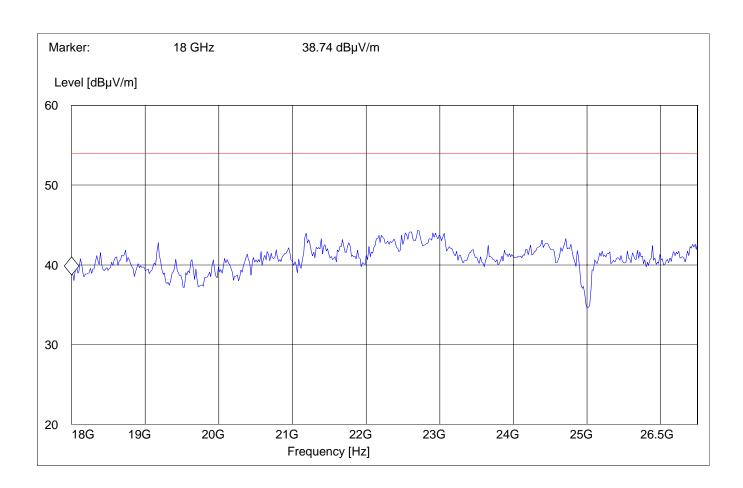
18GHz - 26.5GHz

SWEEP TABLE: "Spuri hi 18-26.5G"

Detector Transducer Start Meas. RBW Stop

Frequency Frequency Time Bandw. VBW

MaxPeak 18 GHz 26.5 GHz Coupled #141 horn (dBi) 1 MHz





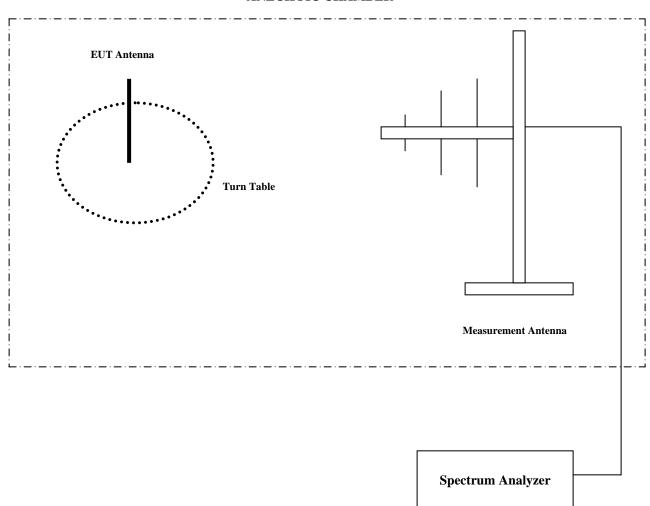
TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

No	Instrument/Ancillary	Type	Manufacturer	Serial No.
01	Spectrum Analyzer	ESIB 40	Rohde & Schwarz	100107
02	Spectrum Analyzer	FSEM 30	Rohde & Schwarz	826880/010
03	Biconilog Antenna	3141	EMCO	0005-1186
04	Horn Antenna (700M-18GHz)	SAS-200/571	AH Systems	325
05	Horn Antenna (18-26.5GHz)	3160-09	EMCO	1240
06	2-3GHz Band reject filter	BRM50701	Microtronics	6
07	Power-Meter	NRVD	Rohde & Schwarz	0857.8008.02
08	Pre-Amplifier	TS-ANA	Rohde & Schwarz	
09	Pre-Amplifier	JS4-00102600	Miteq	00616



BLOCK DIAGRAMSRadiated Testing

ANECHOIC CHAMBER





Conducted Testing

