



Class II Permissive Change

Test Report

**FCC Part 15.247 and RSS-210, Issue 7
for DTS systems**

for the

802.11g Wireless LAN PCI-E

Model Number: BCM94312MCG

FCC ID: QDS-BRCM1028

TEST REPORT #:EMC_CROSS_040_07001_BCM94312MCG_DTS
DATE: September 5, 2007



FCC listed#
A2LA Certified

IC recognized #
3462B

CETECOM Inc.

411 Dixon Landing Road ♦ Milpitas, CA 95035 ♦ U.S.A.

Phone: + 1 (408) 586 6200 ♦ Fax: + 1 (408) 586 6299 ♦ E-mail: info@cetecomusa.com ♦ <http://www.cetecom.com>

CETECOM Inc. is a Delaware Corporation with Corporation number: 2113686
Board of Directors: Dr. Harald Ansorge, Dr. Klaus Matkey, Hans Peter May

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1 Assessment

The following is in compliance with the applicable criteria specified in FCC rules Part 15.247 of the Code of Federal Regulations and IC RSS-210, Issue 7 Standards.

Company	Description	Model #
Broadcom, Inc.	Wireless LAN	BCM94312MCG

Technical responsibility for area of testing:

September 5, 2007 EMC & Radio Lothar Schmidt
(Test Lab Manager)

Date	Section	Name	Signature
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Responsible for test report and project leader:

September 5, 2007 EMC & Radio Juan Martinez
(Project Engineer)

Date	Section	Name	Signature
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The test results of this test report relate exclusively to the test item specified in Identification of the Equipment under Test. 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.



2 Administrative Data

2.1 Identification of the Testing Laboratory Issuing the Radio Assessment Report

Company Name:	CETECOM, Inc.
Department:	EMC
Address:	411 Dixon Landing Road Milpitas, CA 95035 U.S.A.
Telephone:	+1 (408) 586 6200
Fax:	+1 (408) 586 6299
Project Leader:	Juan Martinez
Responsible Test Lab Manager:	Lothar Schmidt

2.2 Identification of the Client

Applicant's Name:	Broadcom, Inc.
Address:	190 Mathilda Place Sunnyvale, CA 94086 , USA
Contact Person:	Daniel Lawless
Phone No.	408 965-3346
Fax:	408 324-4840
e-mail:	dlawless@broadcom.com

2.3 Identification of the Manufacturer

Manufacturer's Name:	Broadcom, Inc.
Manufacturer's Address:	190 Mathilda Place, Sunnyvale, USA

3 Equipment under Test (EUT)

3.1 Specification of the Equipment under Test

Product Type	Wireless LAN
Marketing Name:	802.11g Wireless LAN PCI-E
Model No:	BCM94312MCG
FCC-ID:	QDS-BRCM1028
Frequency Range:	2412MHz – 2462
Number of Channels	11
Type(s) of Modulation:	CCK &
	Siberia Hitachi PIFA Aux (2.17dBi)
	Siberia Amphenol PIFA Aux (1.9dBi)
	Siberia Foxconn PIFA Main (2.67dBi)
Antenna Type:	Siberia Advance PIFA MIMO (0.5dBi)
	Parker Acon PIFA Main (2.6dBi)
	Parker Amphenol PIFA Main (1.88 dBi)
	Spears = PIFA Antenna Aux (3.12dBi)
	Hawke= PIFA Antenna Aux (2.3dBi)
SIBERIA Output Power:	17.2dBm (0.053W), 802.11b EIRP
	16.1dBm (0.041W), 802.11b EIRP
	16.4dBm (0.044W), 802.11b EIRP
	21.6dBm (0.143W), 802.11g EIRP
	21.0dBm (0.116W), 802.11g EIRP
	18.0dBm (0.064W), 802.11g EIRP
	17.5dBm (0.056W), 802.11b EIRP
	18.7dBm (0.073W), 802.11b EIRP
PARKER Output Power:	18.1dBm (0.064W), 802.11b EIRP
	24.1dBm (0.257W), 802.11g EIRP
	25.1dBm (0.324W), 802.11g EIRP
	25.1dBm (0.321W), 802.11g EIRP
	14.9dBm (0.031W), 802.11b EIRP
	13.9dBm (0.025W), 802.11b EIRP
SPEARS-HAWKE Output Power:	14.9dBm (0.031W), 802.11b EIRP
	18.2dBm (0.067W), 802.11g EIRP
	17.5dBm (0.056W), 802.11g EIRP
	17.7dBm (0.059W), 802.11g EIRP



3.2 Class II permissive change laptops to be added

AE #	TYPE	MANF.	MODEL	SERIAL #
1	Laptop	Dell	PP06XA (Siberia)	N/A
2	Laptop	Dell	PP12S (Parker)	N/A
3	Laptop	Dell	PP28L (Hawke)	N/A
4	Laptop	Dell	PP29L (Spears)	N/A

Subject Of Investigation

All testing were performed on the Siberia (PP06XA), Parker (PP12S), and Spears (PP29L) laptop with the BCM94312MCAG pre-approved module. Measurements for Siberia and Parker were performed on the highest gain of antenna family. Measurements were performed only on the Spears laptop internal antenna since it has the highest gain then the Hawke laptop internal antenna. Data, presented in this report, was collected for a Class II permissive change to add the laptops to the BCM94312MCAG (FCC ID: QDS-BRCM1028) module application.

The objective of the measurements done by Cetecom Inc. was to measure the performance of the EUT as specified by requirements listed in FCC rules Part 15.247 of Title 47 of the Code of Federal Regulations and to Industry Canada RSS-210, Issue 7. The maximization of portable equipment is conducted in accordance with ANSI C63.4.

4 Measurements**5 RADIATED POWER****5.1 MAXIMUM PEAK OUTPUT POWER § 15.247 (b) (3) & RSS-210 (A8.4)(4)
(RADIATED)****SIBERIA**

TEST CONDITIONS (802.11b)		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2412	2437	2462
T _{nom} (23)°C	V _{nom}	17.23	16.08	16.42
Measurement uncertainty		±0.5dBm		

SIBERIA

TEST CONDITIONS (802.11g)		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2412	2437	2462
T _{nom} (23)°C	V _{nom}	21.55	20.66	18.04
Measurement uncertainty		±0.5dBm		

PARKER

TEST CONDITIONS (802.11b)		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2412	2437	2462
T _{nom} (23)°C	V _{nom}	17.45	18.65	18.06
Measurement uncertainty		±0.5dBm		

PARKER

TEST CONDITIONS (802.11g)		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2412	2437	2462
T _{nom} (23)°C	V _{nom}	24.1	25.11	25.06
Measurement uncertainty		±0.5dBm		

SPEARS-HAWKE

TEST CONDITIONS (802.11b)		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2412	2437	2462
T _{nom} (23)°C	V _{nom}	14.85	13.96	14.91
Measurement uncertainty		±0.5dBm		

SPEARS-HAWKE

TEST CONDITIONS (802.11g)		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2412	2437	2462
T _{nom} (23)°C	V _{nom}	18.24	17.48	17.7
Measurement uncertainty		±0.5dBm		

LIMIT**SUBCLAUSE § 15.247 (b) (3) & RSS-210 (A8.4)(4)**

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



Note 1: Power was set to maximum previously approved power levels.

Note 2: Both vertical and horizontal receive antenna were tested. Worst case polarization reported.

**2412 MHz (802.11b)**

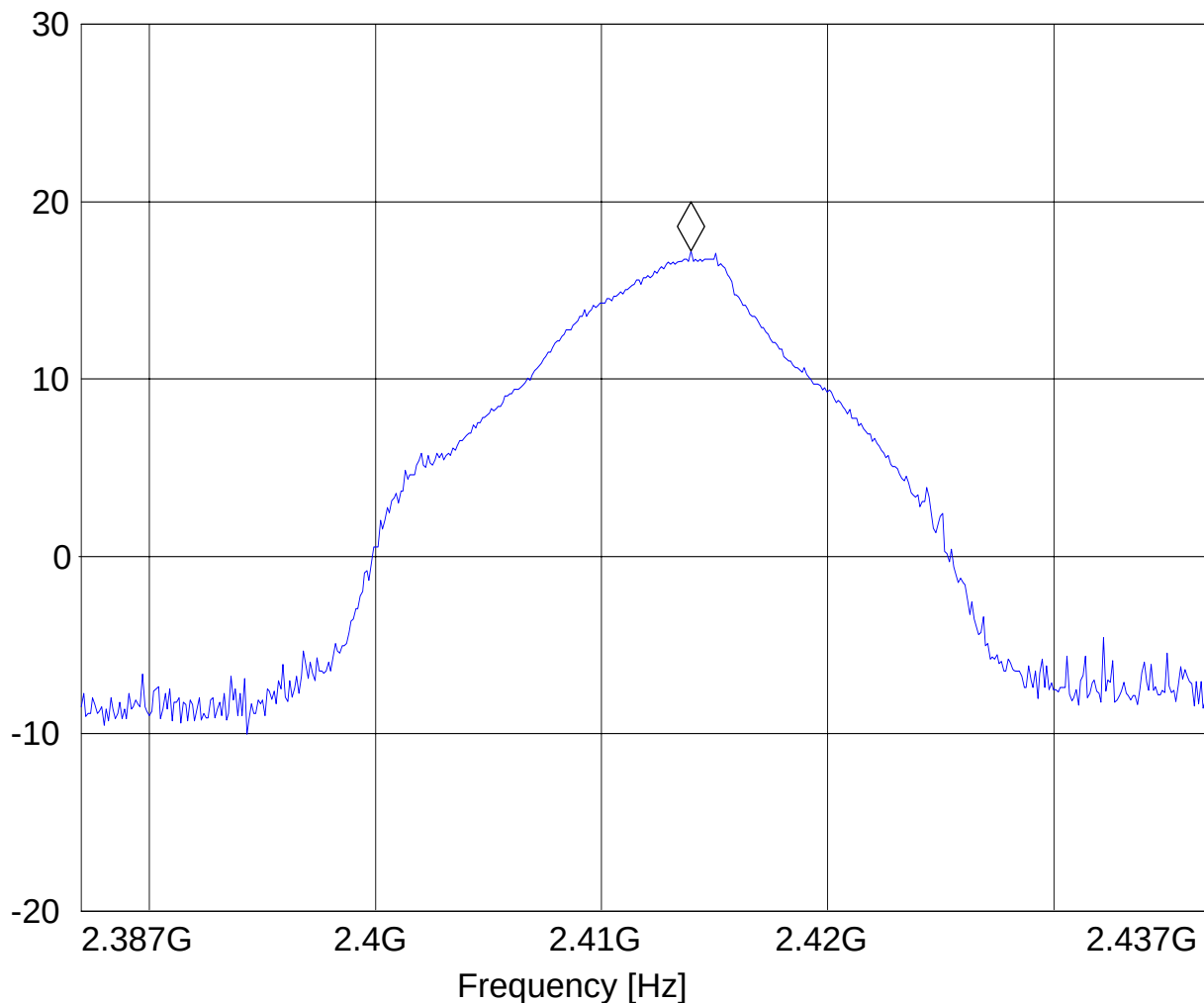
EUT: Siberia
Customer: Broadcom
Test Mode: 802.11 b ; ch 1; Auxiliary antenna
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Power Supply

SWEEP TABLE: "EIRP RLAN CH1"

Short Description:		EIRP RLAN channel-2412 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.4 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.413953908 GHz 17.23 dBm

Level [dBm]



2437 MHz (802.11b)

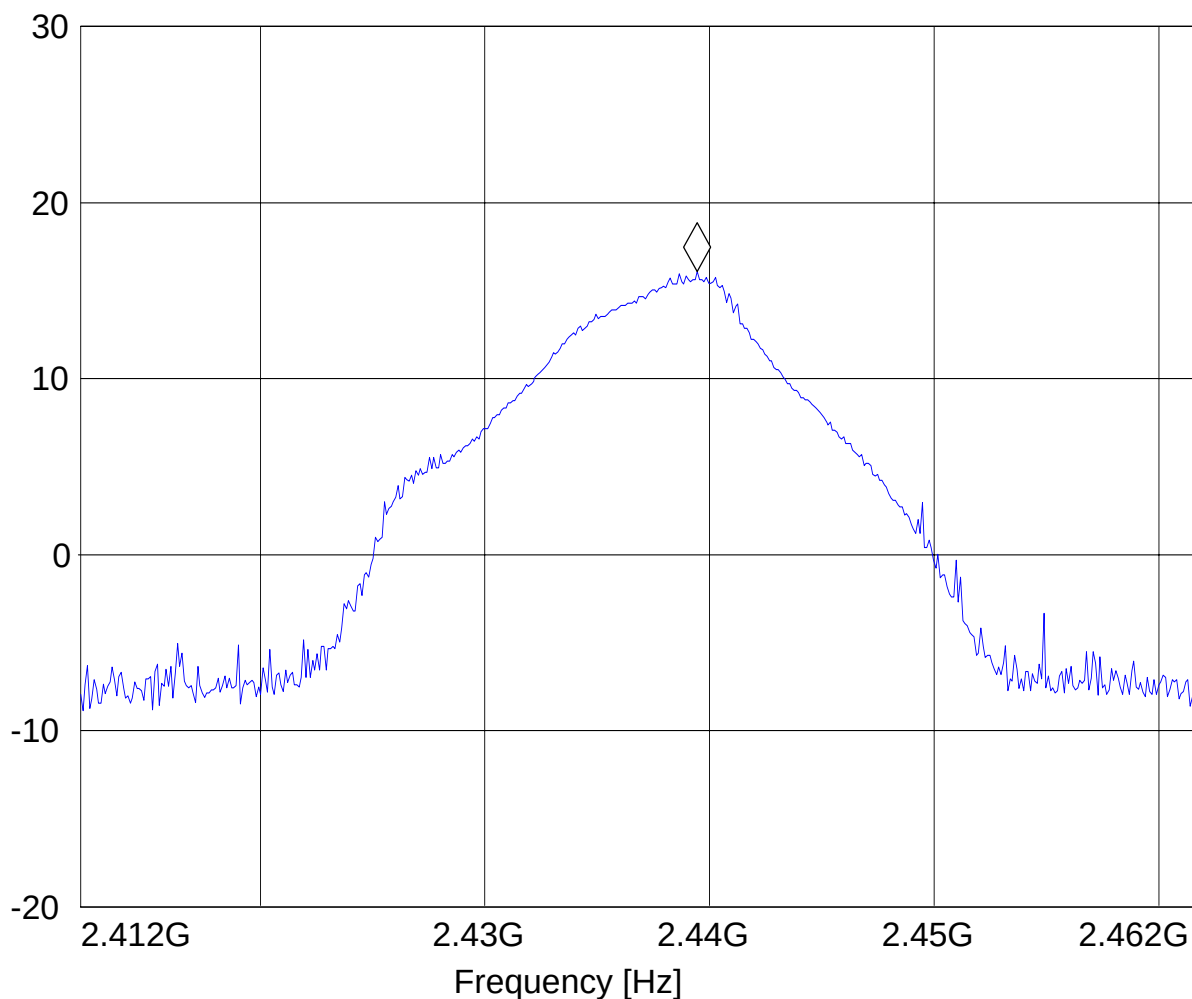
EUT: Siberia
Customer: Broadcom
Test Mode: 802.11 b ; ch 6; Auxiliary antenna
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Power Supply

SWEEP TABLE: "EIRP RLAN CH6"

Short Description:		EIRP RLAN channel-2437 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.5 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.43945491 GHz 16.08 dBm

Level [dBm]



**2462 MHz (802.11b)**

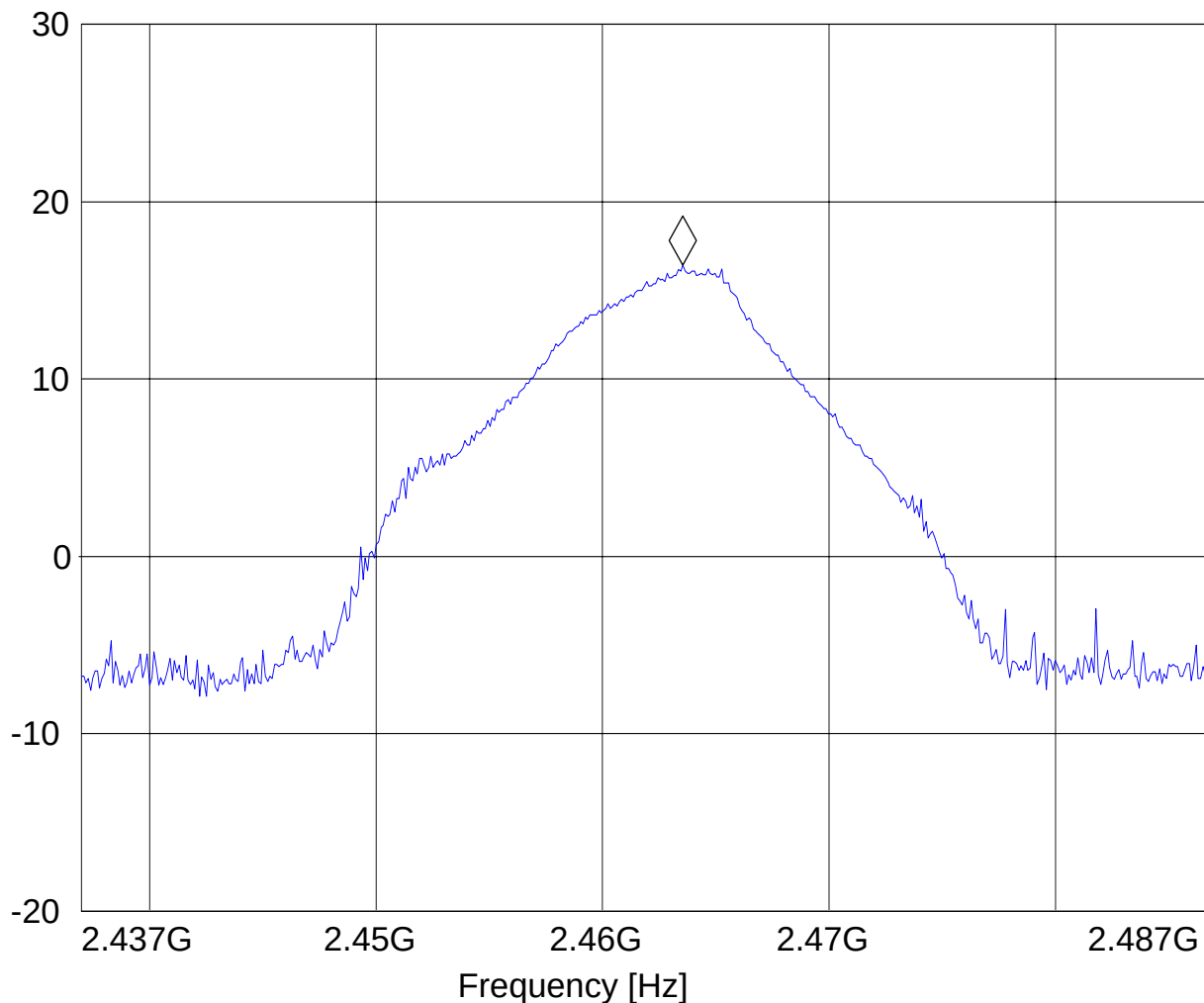
EUT: Siberia
Customer: Broadcom
Test Mode: 802.11 b ; ch 11; Auxiliary antenna
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Power Supply

SWEEP TABLE: "EIRP RLAN CH11"

Short Description:		EIRP RLAN channel-2462 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.5 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.463553106 GHz 16.42 dBm

Level [dBm]



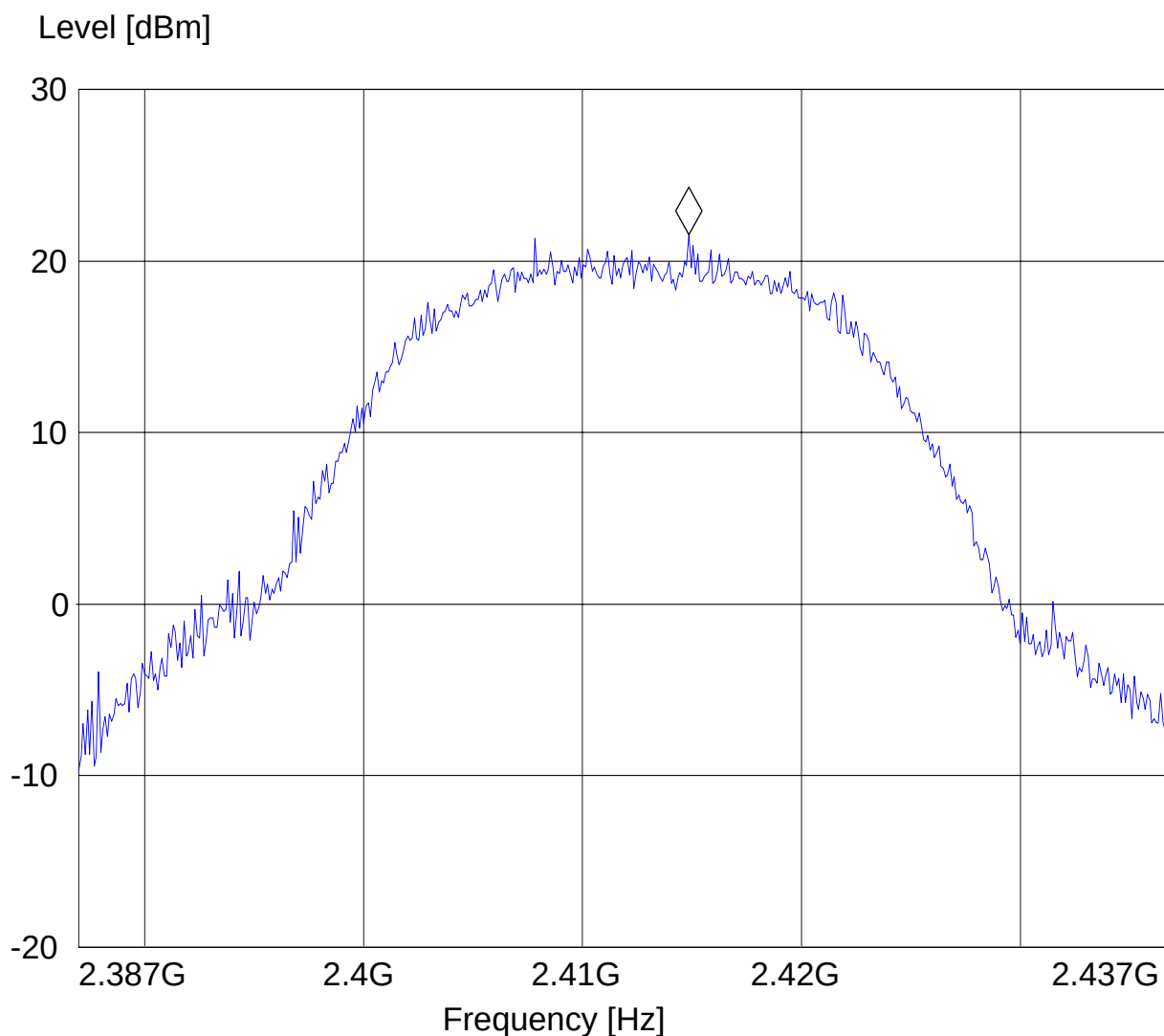
2412 MHz (802.11g)

EUT: Siberia
Customer: Broadcom
Test Mode: 802.11 g ; ch 1; Auxiliary antenna
ANT Orientation: H
EUT Orientation: H
Test Engineer: Satya Radhakrishna
Power Supply: AC Adapter

SWEEP TABLE: "EIRP RLAN CH1"

Short Description:		EIRP RLAN channel-2412 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.4 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.414855711 GHz 21.55 dBm



2437 MHz (802.11g)

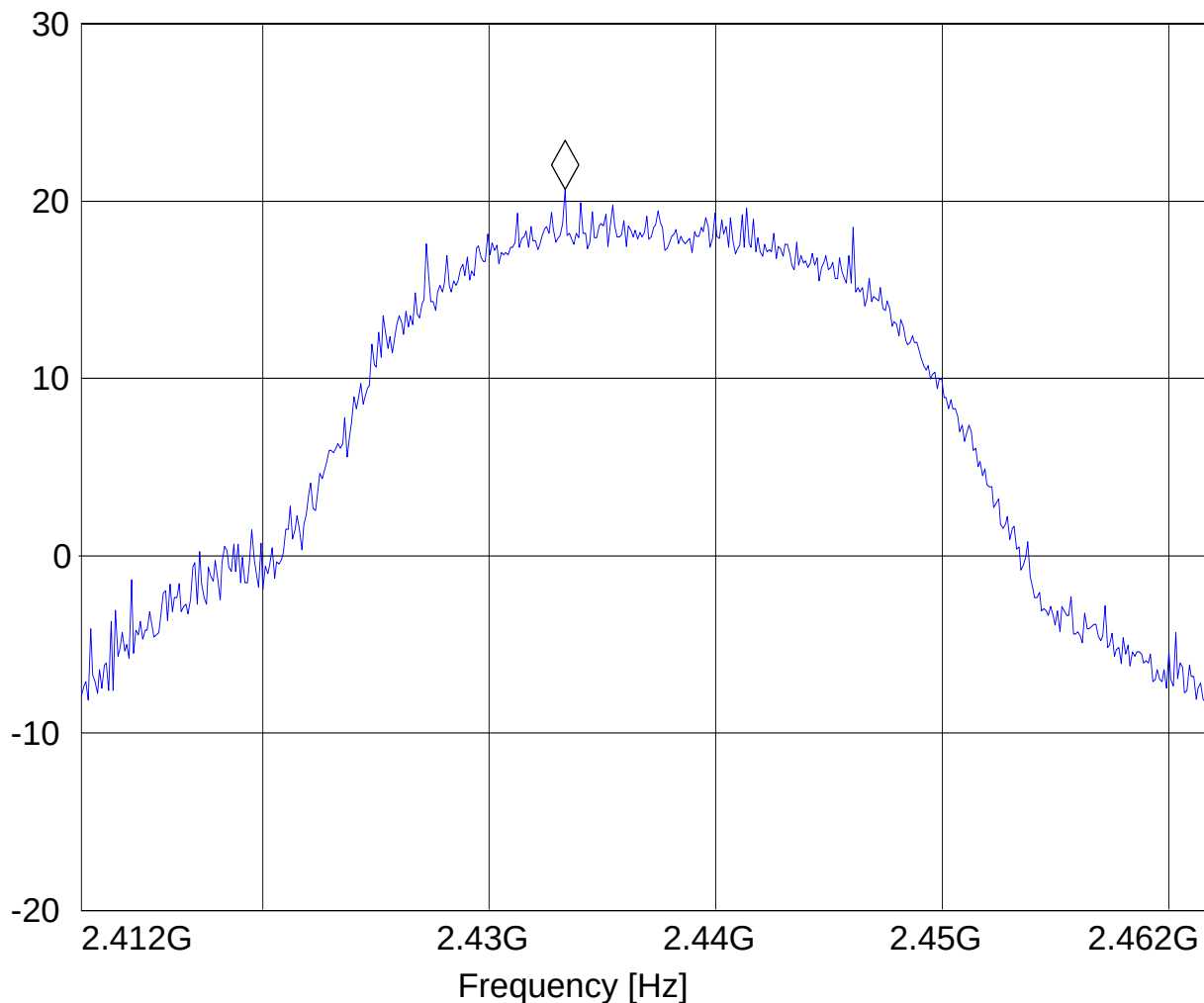
EUT: Siberia
Customer: Broadcom
Test Mode: 802.11 g ; ch 6; Auxillary antenna
ANT Orientation: H
EUT Orientation: H
Test Engineer: Satya Radhakrishna
Power Supply: AC Adapter

SWEEP TABLE: "EIRP RLAN CH6"

Short Description:		EIRP RLAN channel-2437 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.5 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.433342685 GHz 20.66 dBm

Level [dBm]



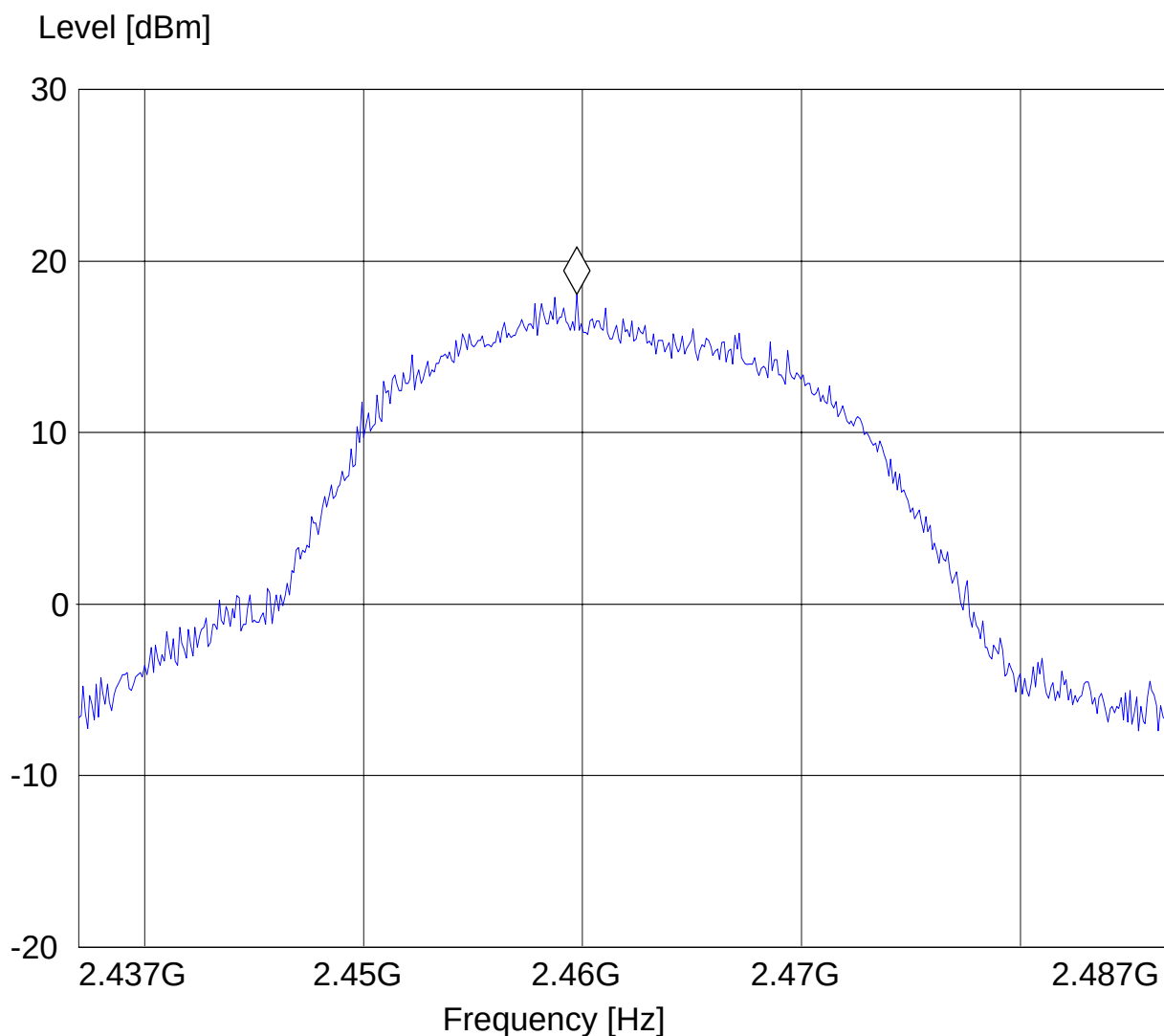
2462 MHz (802.11g)

EUT: Siberia
Customer: Broadcom
Test Mode: 802.11 g ; ch 11; Auxillary antenna
ANT Orientation: H
EUT Orientation: H
Test Engineer: Satya Radhakrishna
Power Supply: AC Adapter

SWEEP TABLE: "EIRP RLAN CH11"

Short Description:		EIRP RLAN channel-2462 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.5 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.459745491 GHz 18.04 dBm



**2412 MHz (802.11b)**

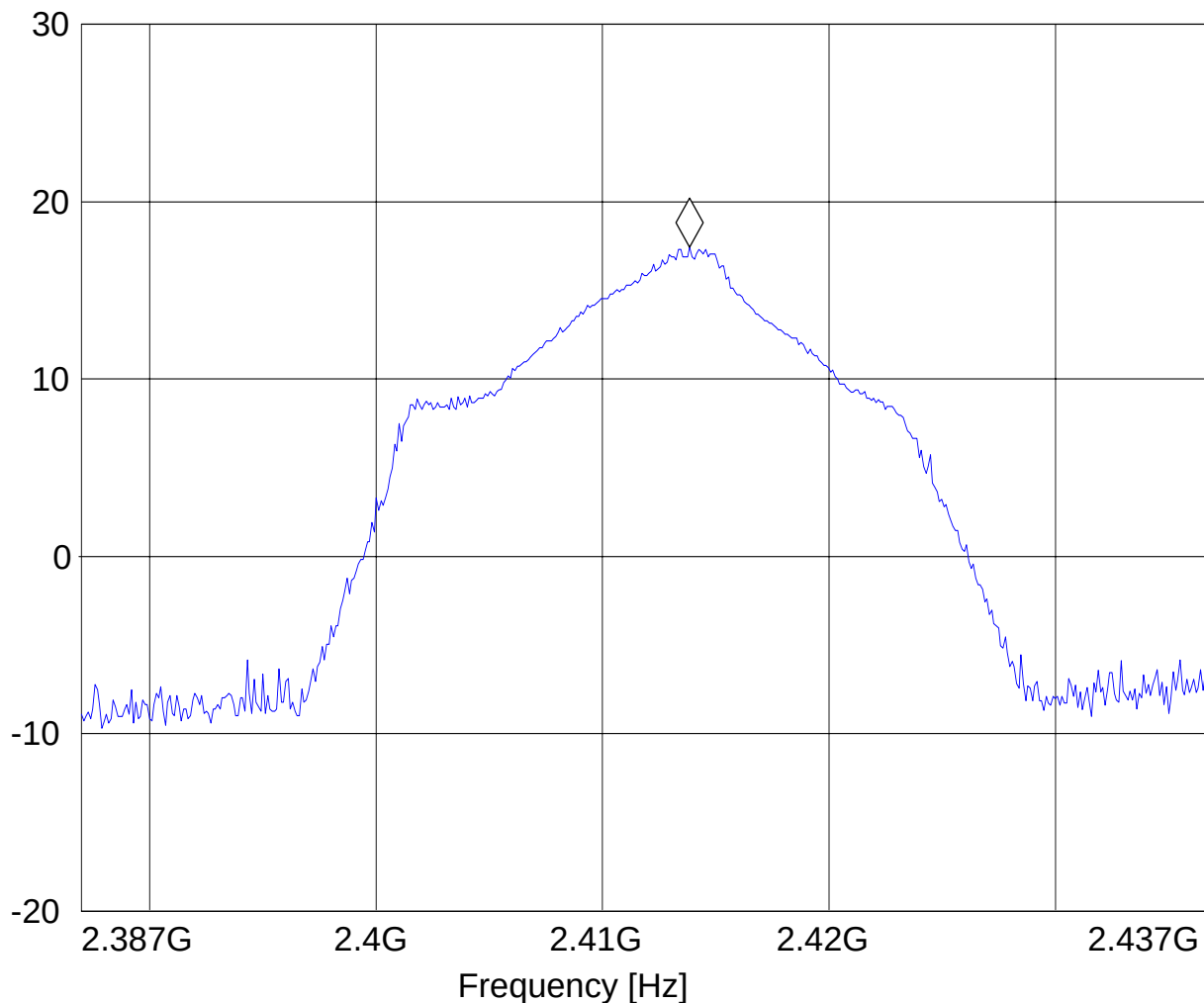
EUT: Parker
Customer: Broadcom
Test Mode: 802.11b, ch 1 Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "EIRP RLAN CH1"

Short Description:		EIRP RLAN channel-2412 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.4 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.413853707 GHz 17.45 dBm

Level [dBm]



**2437 MHz (802.11b)**

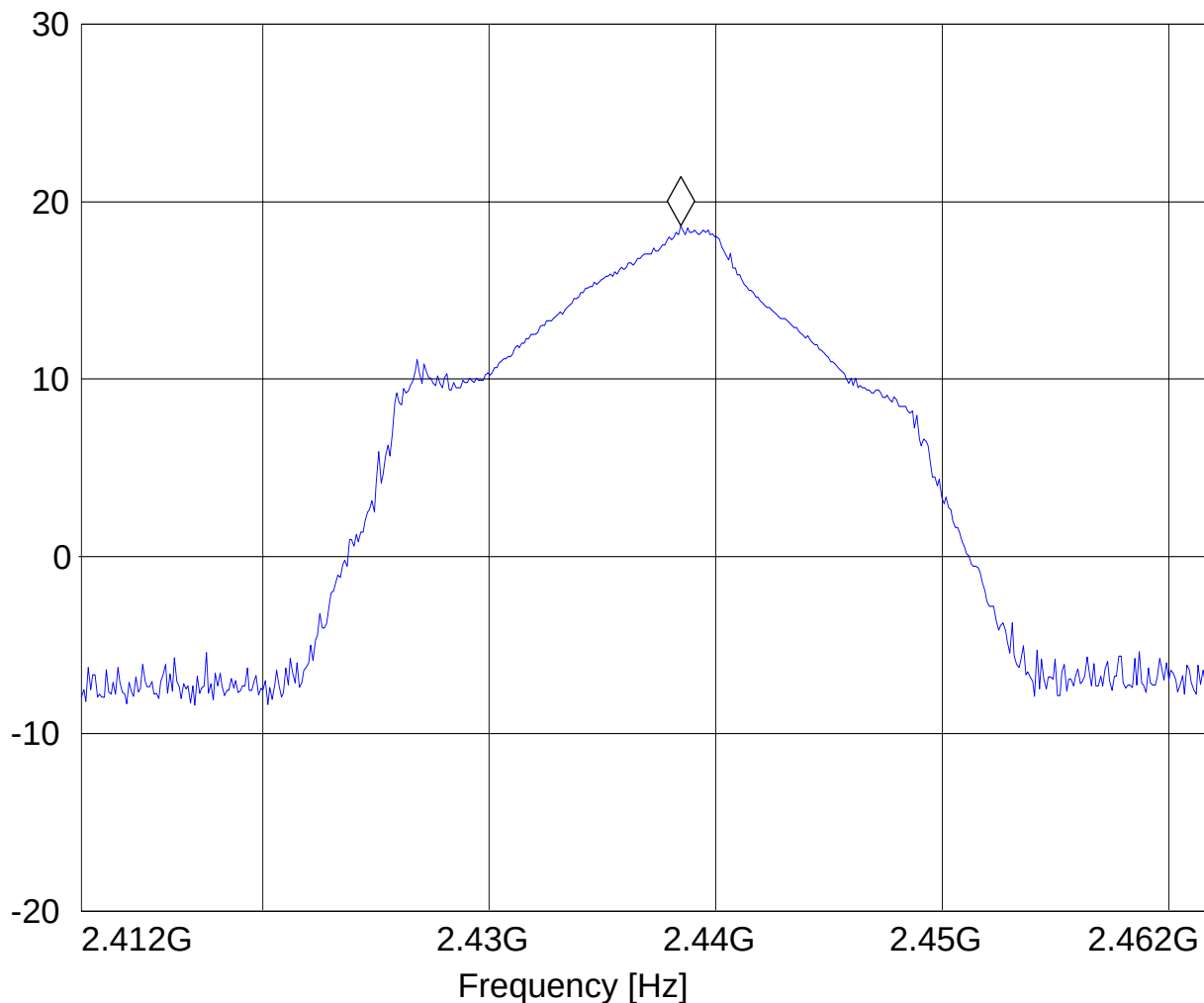
EUT: Parker
Customer: Broadcom
Test Mode: 802.11b, ch 6, Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "EIRP RLAN CH6"

Short Description:		EIRP RLAN channel-2437 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.5 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.438452906 GHz 18.65 dBm

Level [dBm]



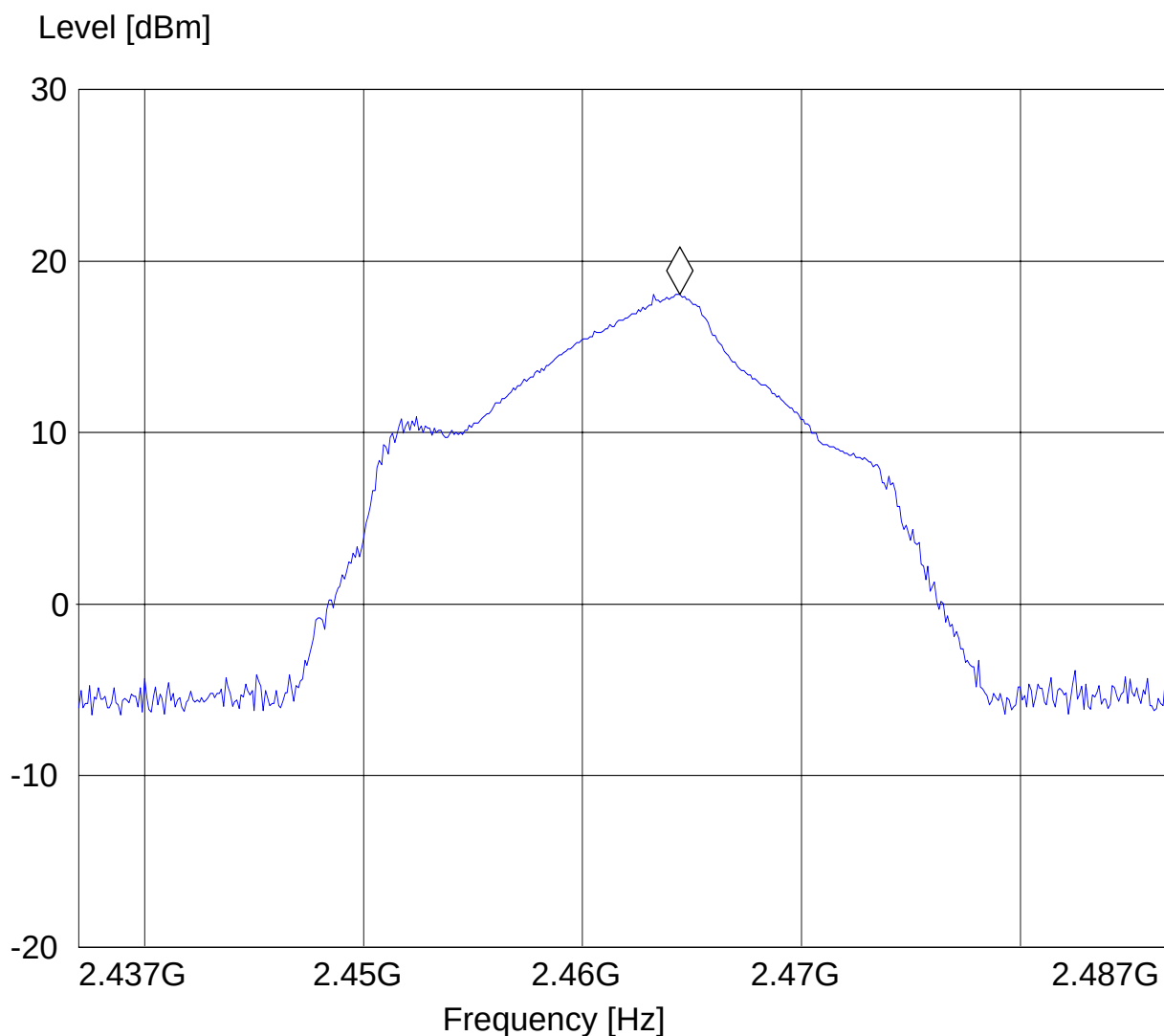
2462 MHz (802.11b)

EUT: Parker
Customer: Broadcom
Test Mode: 802.11b, ch 11, Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "EIRP RLAN CH11"

Short Description:		EIRP RLAN channel-2462 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.5 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.46445491 GHz 18.06 dBm



2412 MHz (802.11g)

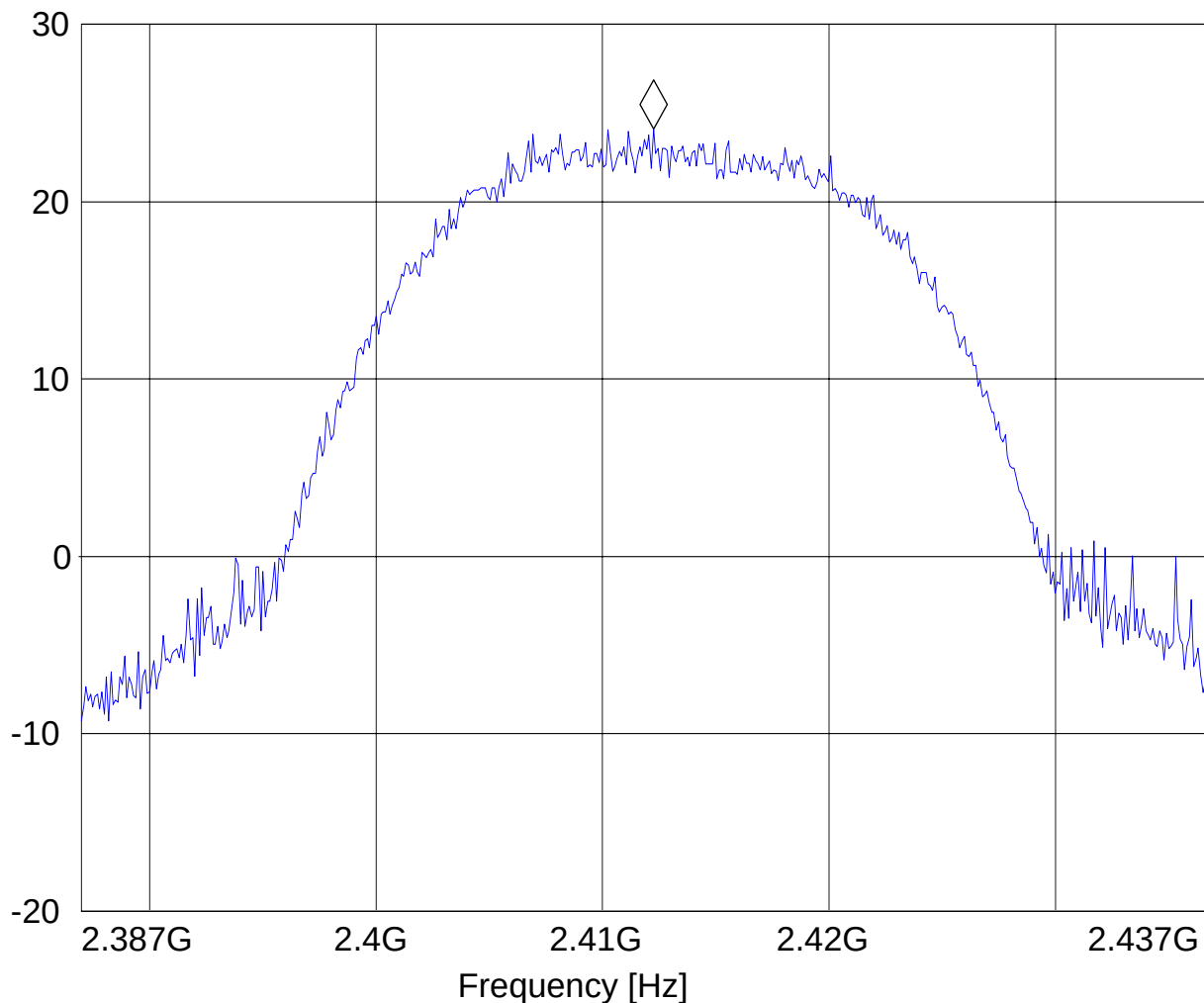
EUT: Parker
Customer: Broadcom
Test Mode: 802.11g, ch 1, Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "EIRP RLAN CH1"

Short Description:		EIRP RLAN channel-2412 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.4 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.412250501 GHz 24.1 dBm

Level [dBm]



2437 MHz (802.11g)

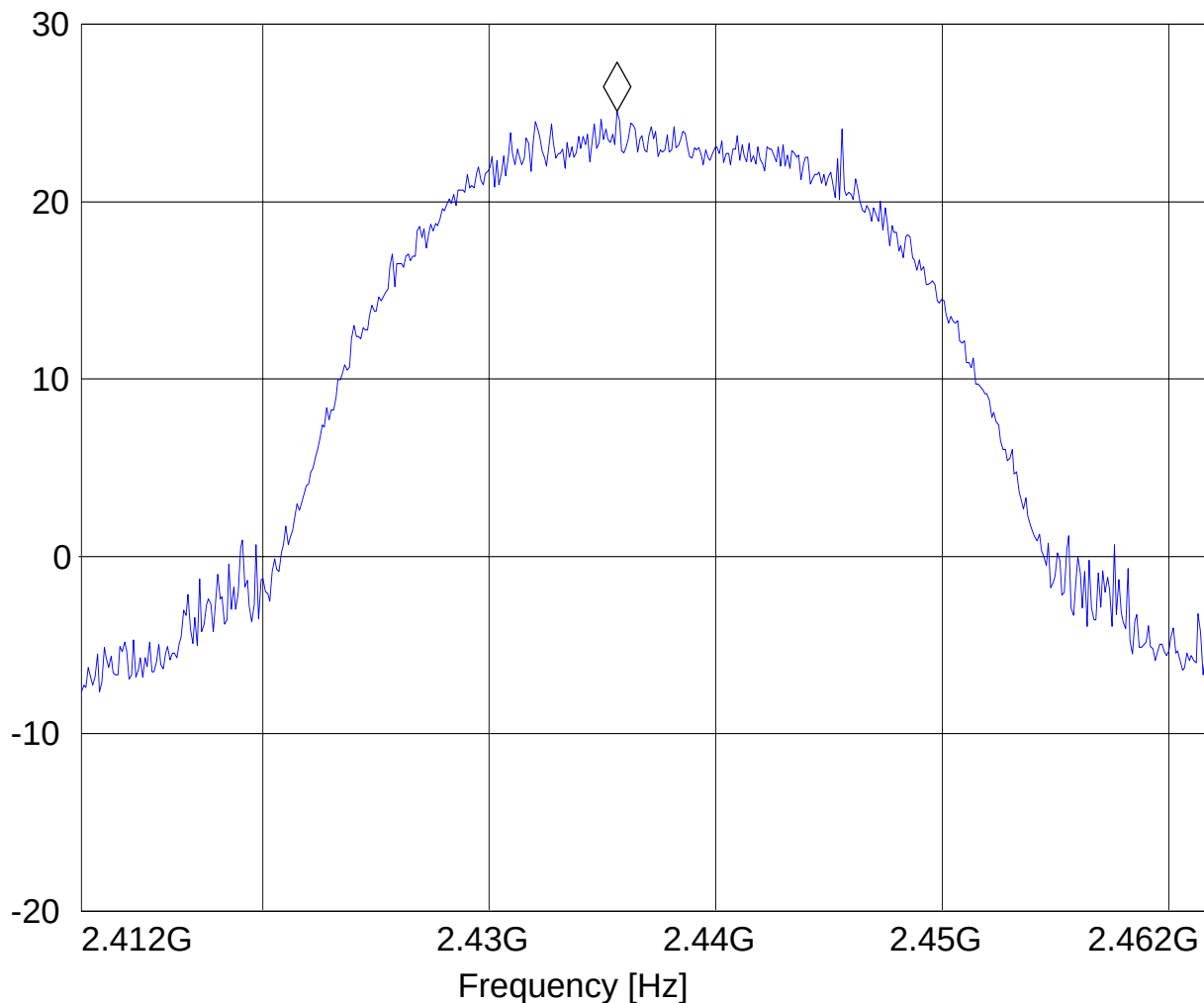
EUT: Parker
Customer: Broadcom
Test Mode: 802.11g, ch 6, Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Ed
Power Supply: AC Adapter

SWEEP TABLE: "EIRP RLAN CH6"

Short Description:		EIRP RLAN channel-2437 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.5 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.435647295 GHz 25.11 dBm

Level [dBm]



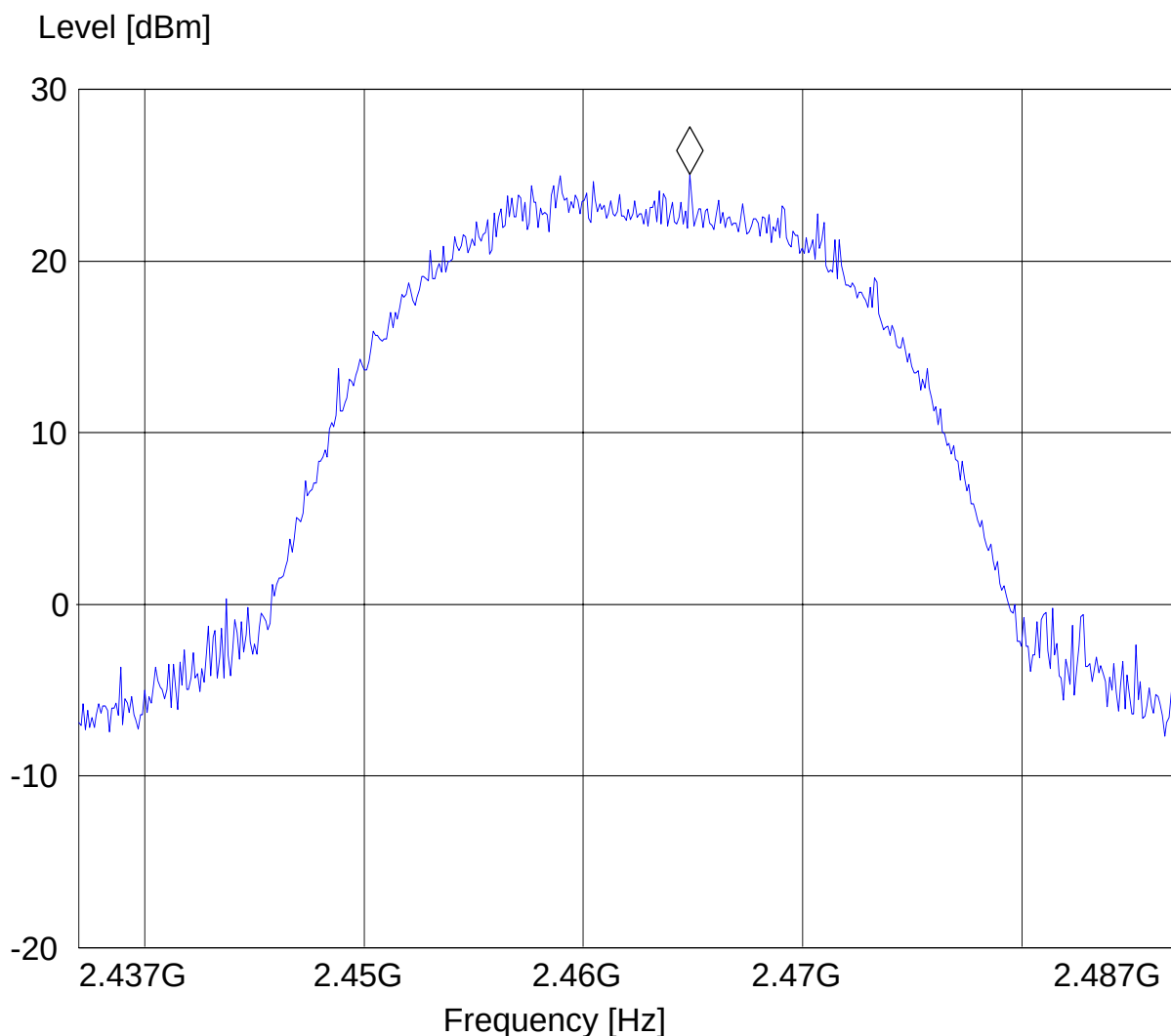
2462 MHz (802.11g)

EUT: Parker
Customer: Broadcom
Test Mode: 802.11g, ch 11, Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "EIRP RLAN CH11"

Short Description:		EIRP RLAN channel-2462 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.5 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.464855711 GHz 25.06 dBm



2412 MHz (802.11b)

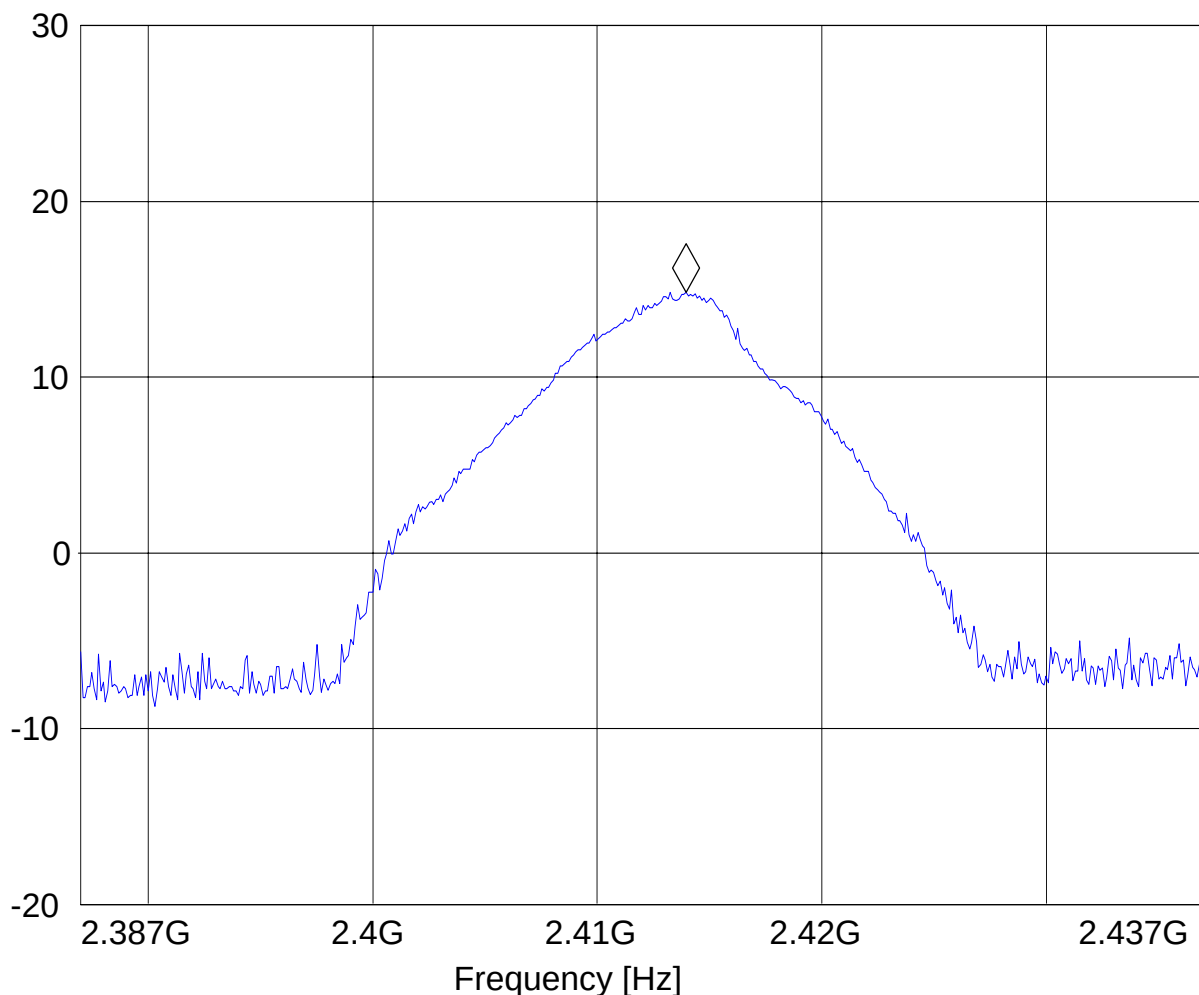
EUT: Spears-Hawke
Customer: Broadcom
Test Mode: 802.11b, Ch. 1, Main Antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "EIRP RLAN CH1"

Short Description:		EIRP RLAN channel-2412 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.4 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.413953908 GHz 14.85 dBm

Level [dBm]

**2437 MHz (802.11b)**

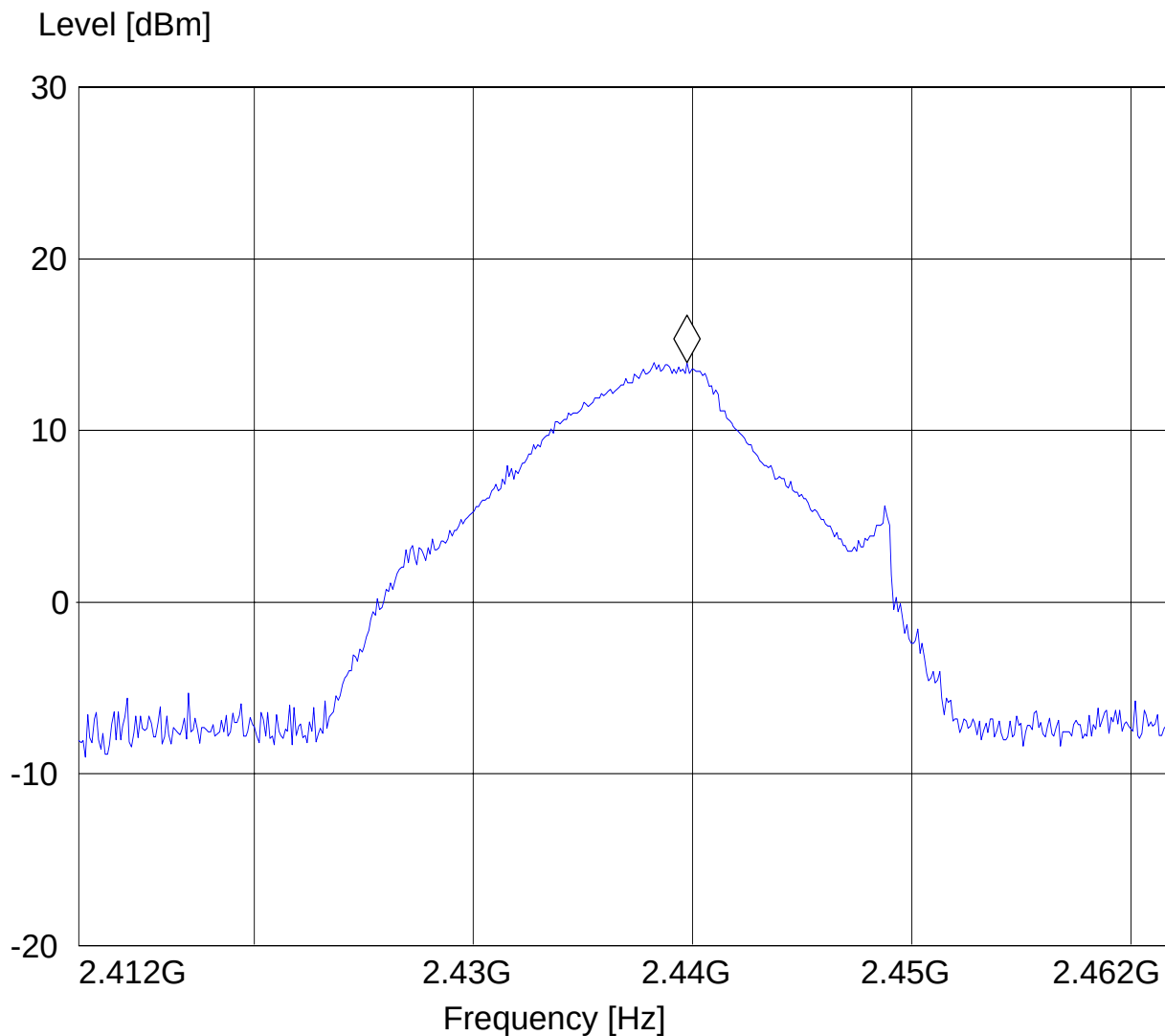


EUT: Spears-Hawke
Customer: Broadcom
Test Mode: 802.11b, Ch. 6, Main Antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "EIRP RLAN CH6"

Short Description:		EIRP RLAN channel-2437 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.5 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.43975511 GHz 13.96 dBm



**2462 MHz (802.11b)**

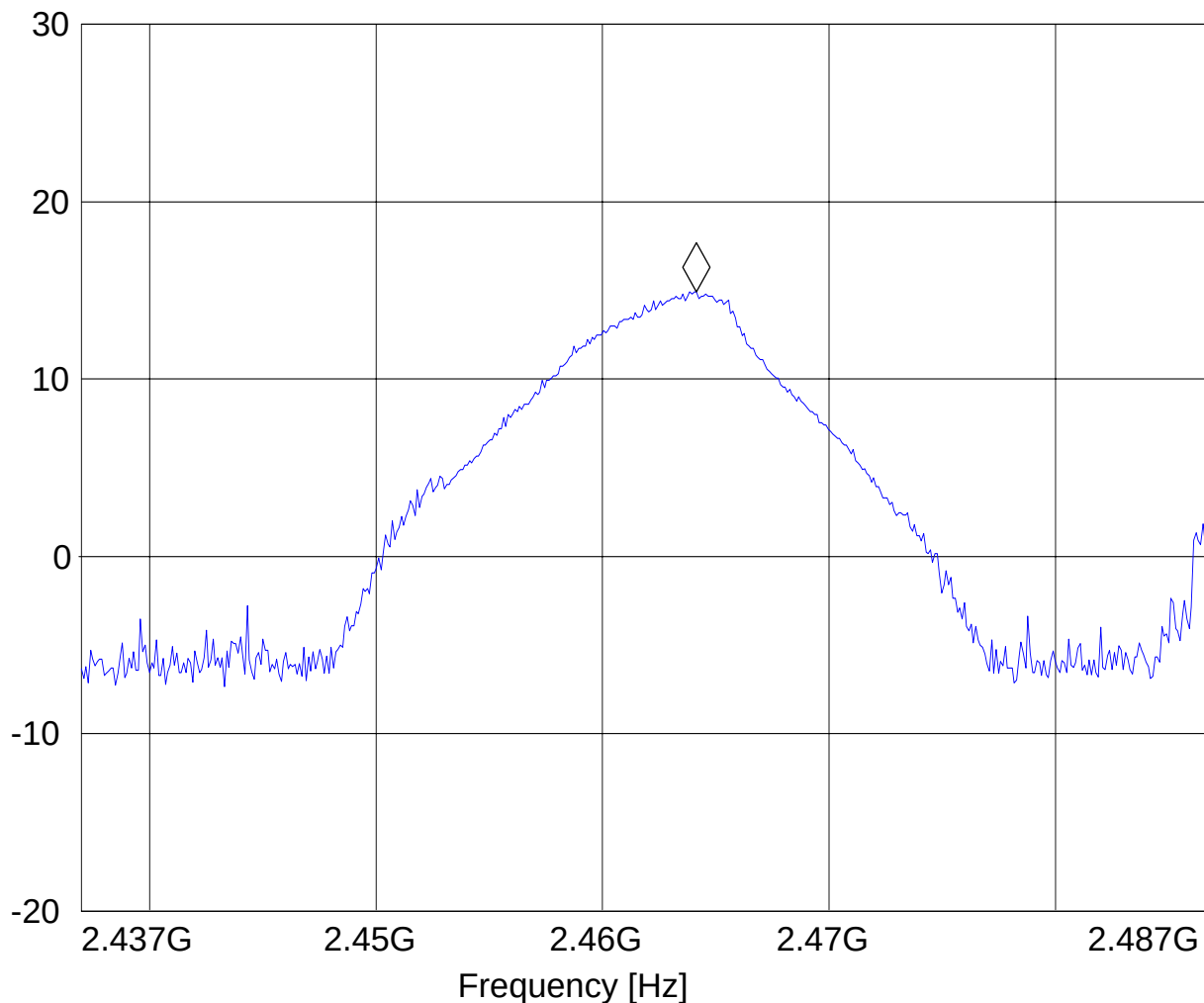
EUT: Spears-Hawke
Customer: Broadcom
Test Mode: 802.11b, Ch. 11, Main Antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "EIRP RLAN CH11"

Short Description:		EIRP RLAN channel-2462 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.5 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.464154309 GHz 14.91 dBm

Level [dBm]



2412 MHz (802.11g)

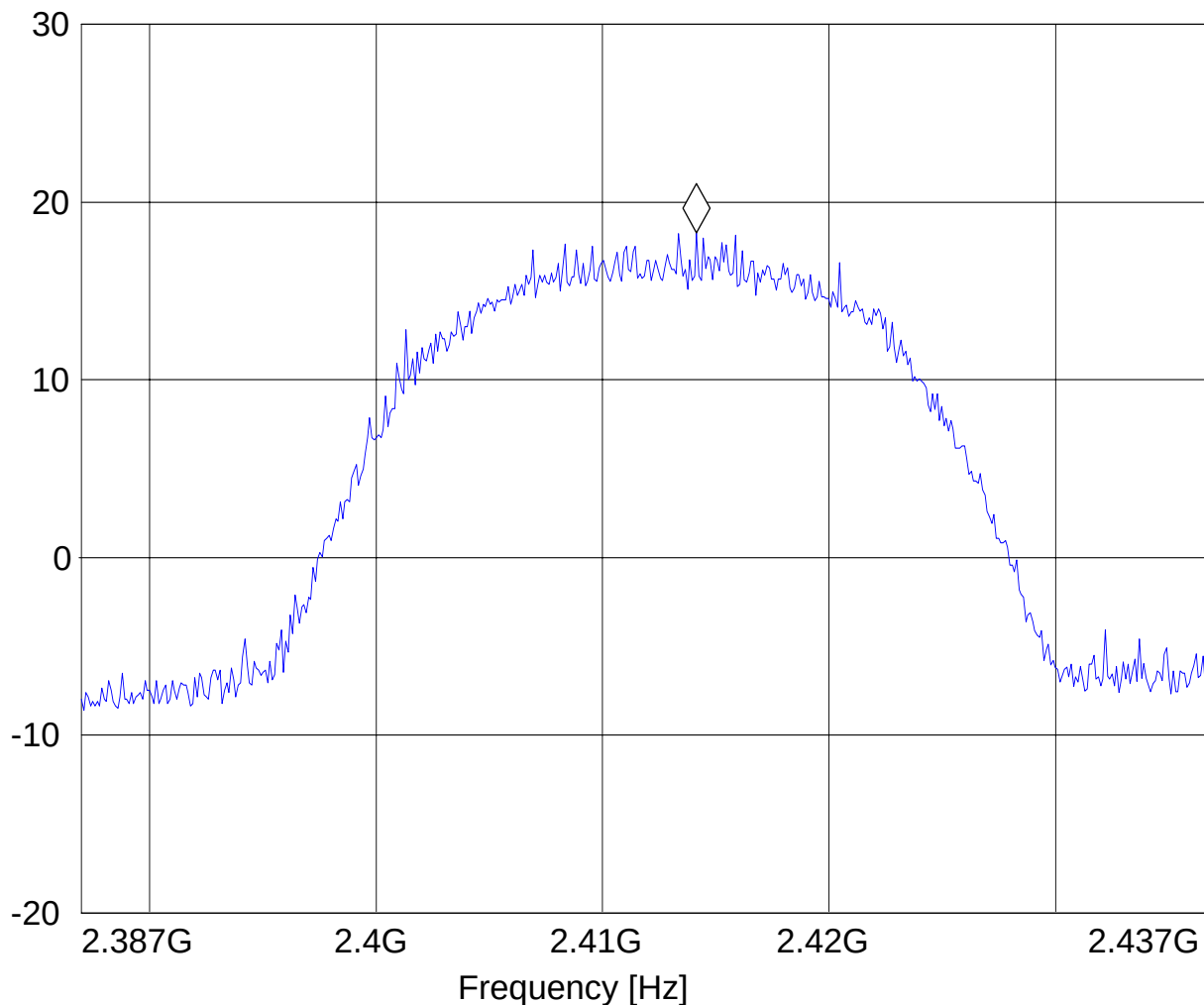
EUT: Spears-Hawke
Customer: Broadcom
Test Mode: 802.11g, CH.1, Main Antenna
ANT Orientation: v
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "EIRP RLAN CH1"

Short Description:	EIRP RLAN channel-2412 MHz				
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.4 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.414154309 GHz 18.24 dBm

Level [dBm]



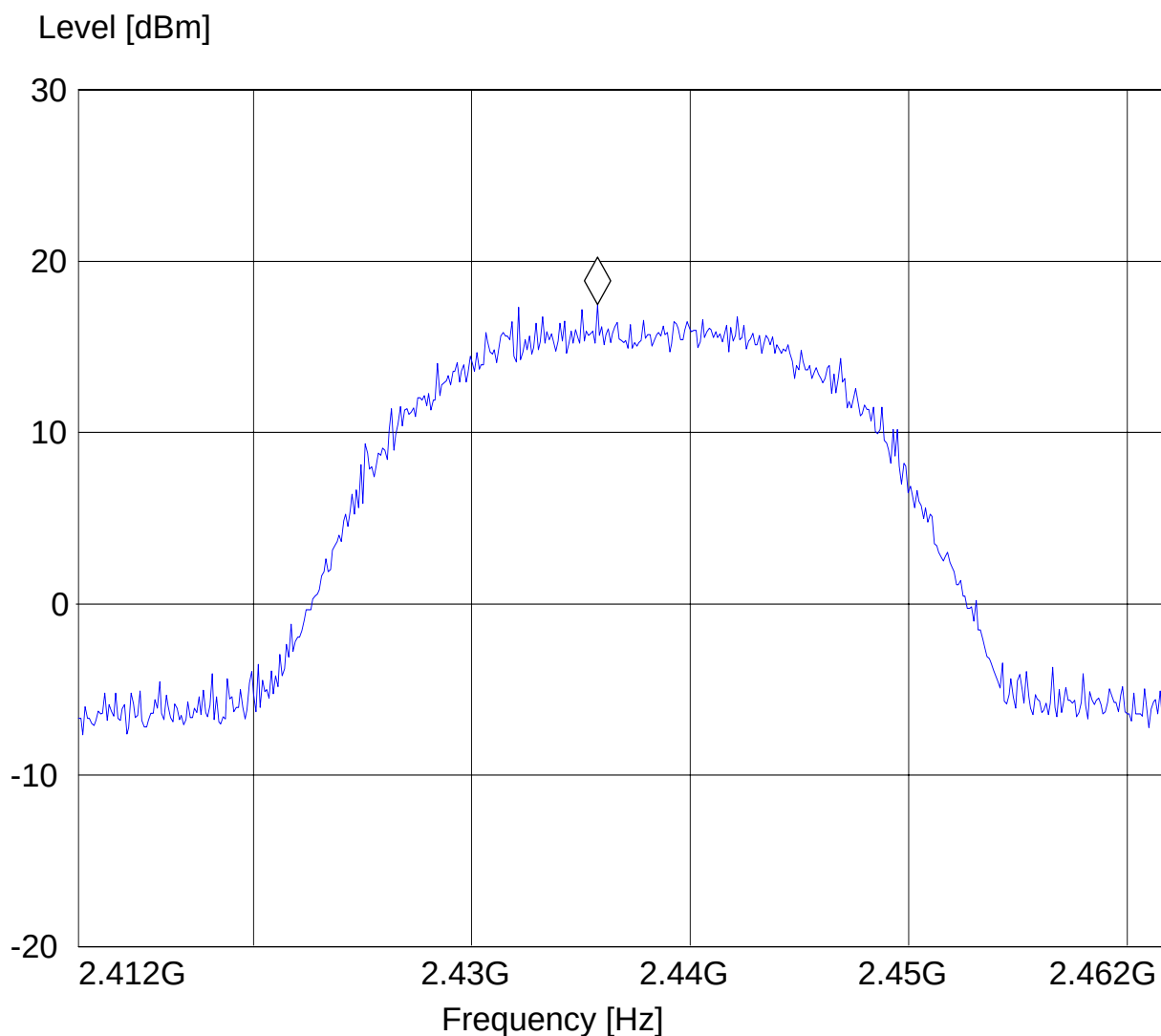
2437 MHz (802.11g)

EUT: Spears-Hawke
Customer: Broadcom
Test Mode: 802.11g, CH.6, Main Antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "EIRP RLAN CH6"

Short Description:		EIRP RLAN channel-2437 MHz			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.5 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.435747495 GHz 17.48 dBm



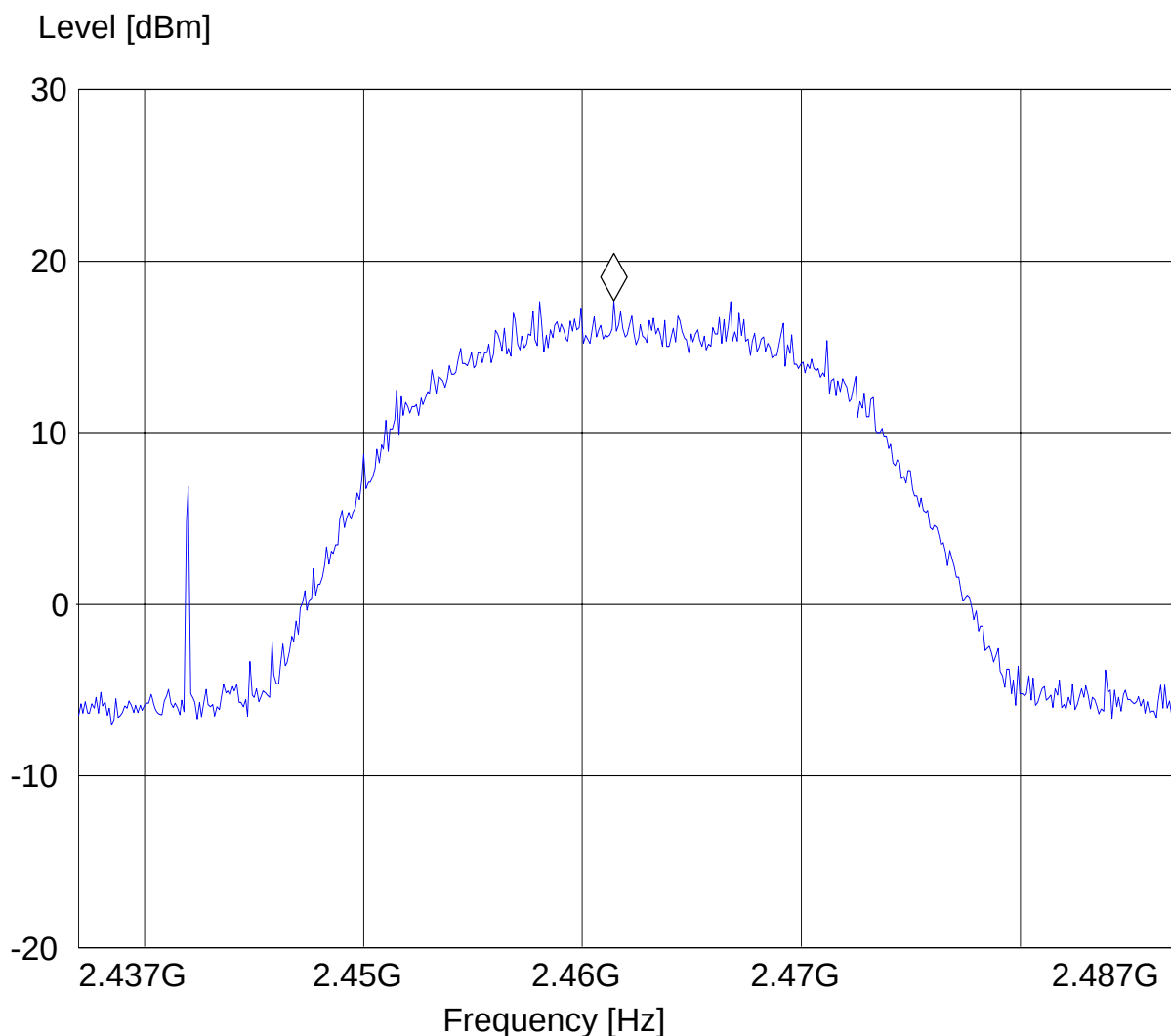
**2462 MHz (802.11g)**

EUT: Spears-Hawke
Customer: Broadcom
Test Mode: 802.11g, CH.11, Main Antenna
ANT Orientation: v
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "EIRP RLAN CH11"

Short Description:	EIRP RLAN channel-2462 MHz				
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
2.4 GHz	2.5 GHz	MaxPeak	Coupled	10 MHz	DUMMY-DBM

Marker: 2.461448898 GHz 17.7 dBm



6 RADIATED EMISSIONS MEASUREMENTS

6.1 BAND EDGE COMPLIANCE

§15.247 (d) & RSS-210(A8.5)

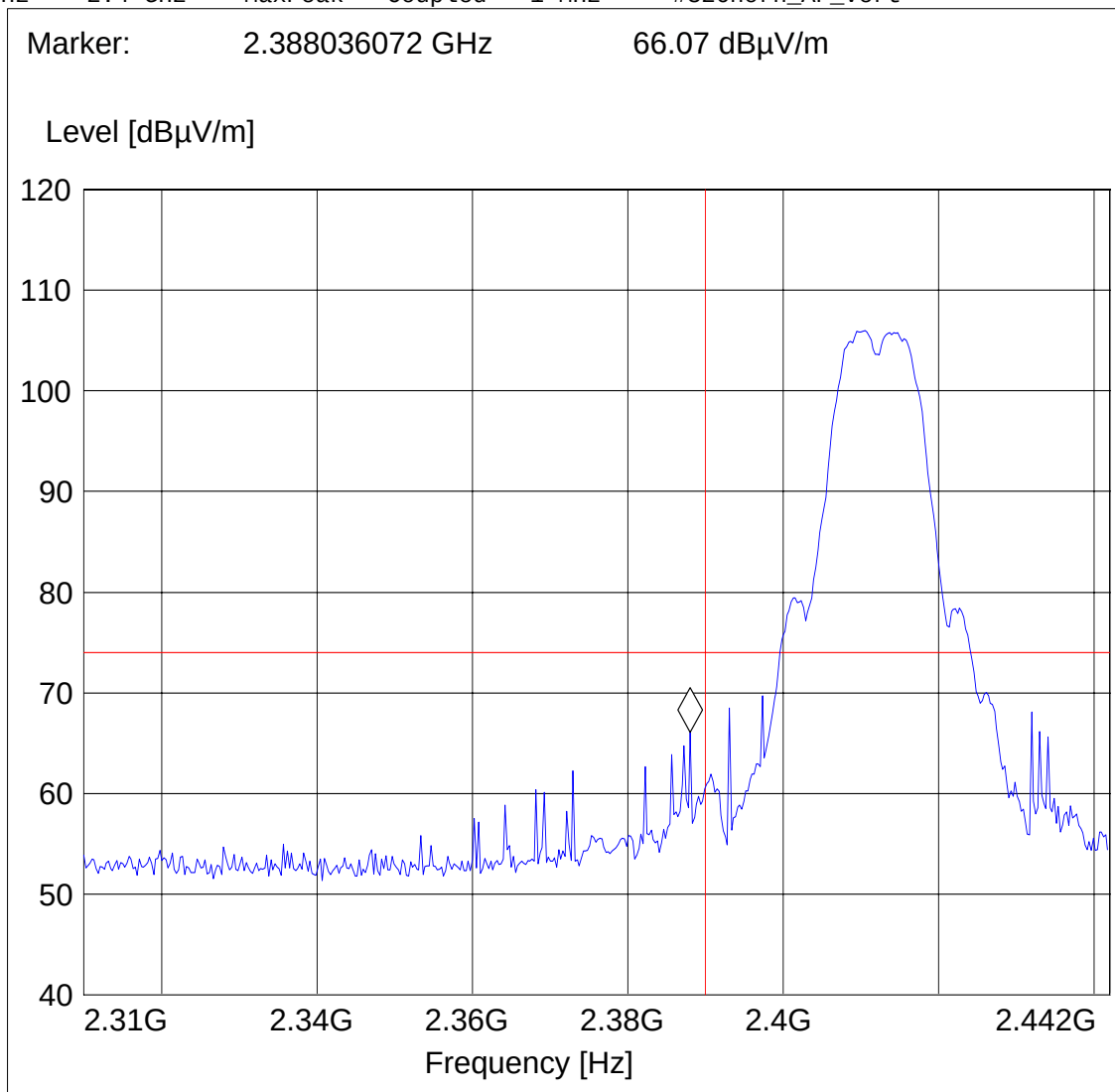
SIBERIA 802.11b

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

EUT: Siberia
Customer: Broadcom
Test Mode: 802.11 b ; ch 1; Auxiliary antenna
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Power Supply

SWEEP TABLE: "FCC15.247 LBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

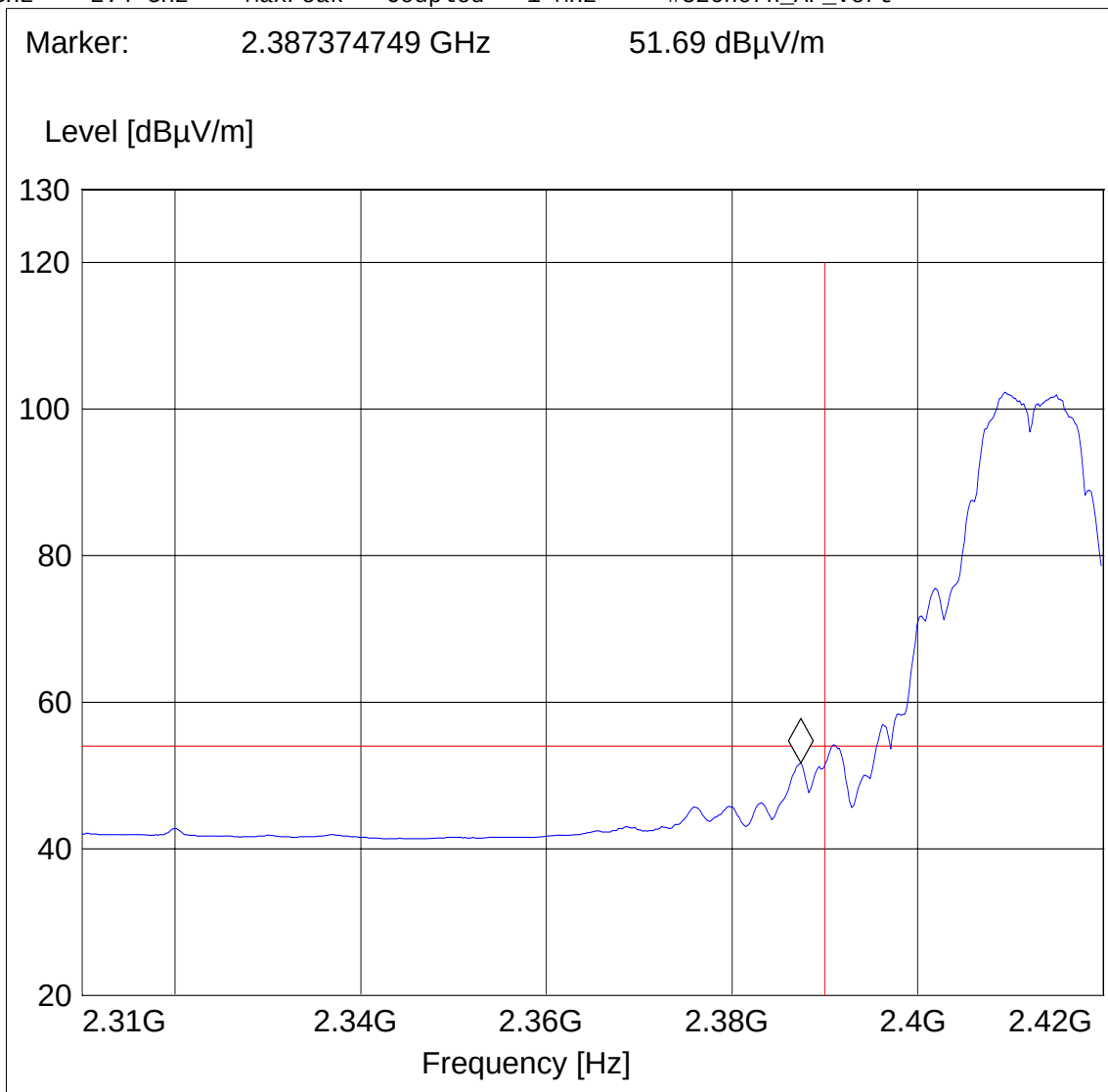


**BAND EDGE COMPLIANCE****§15.247 (d) & RSS-210(A8.5)****SIBERIA 802.11b****Low frequency section (spurious in the restricted band 2310 – 2390 MHz)**

EUT: Siberia
Customer: Broadcom
Test Mode: 802.11 b ; ch 1; Auxiliary antenna
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Power Supply

SWEEP TABLE: "FCC15.247 LBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

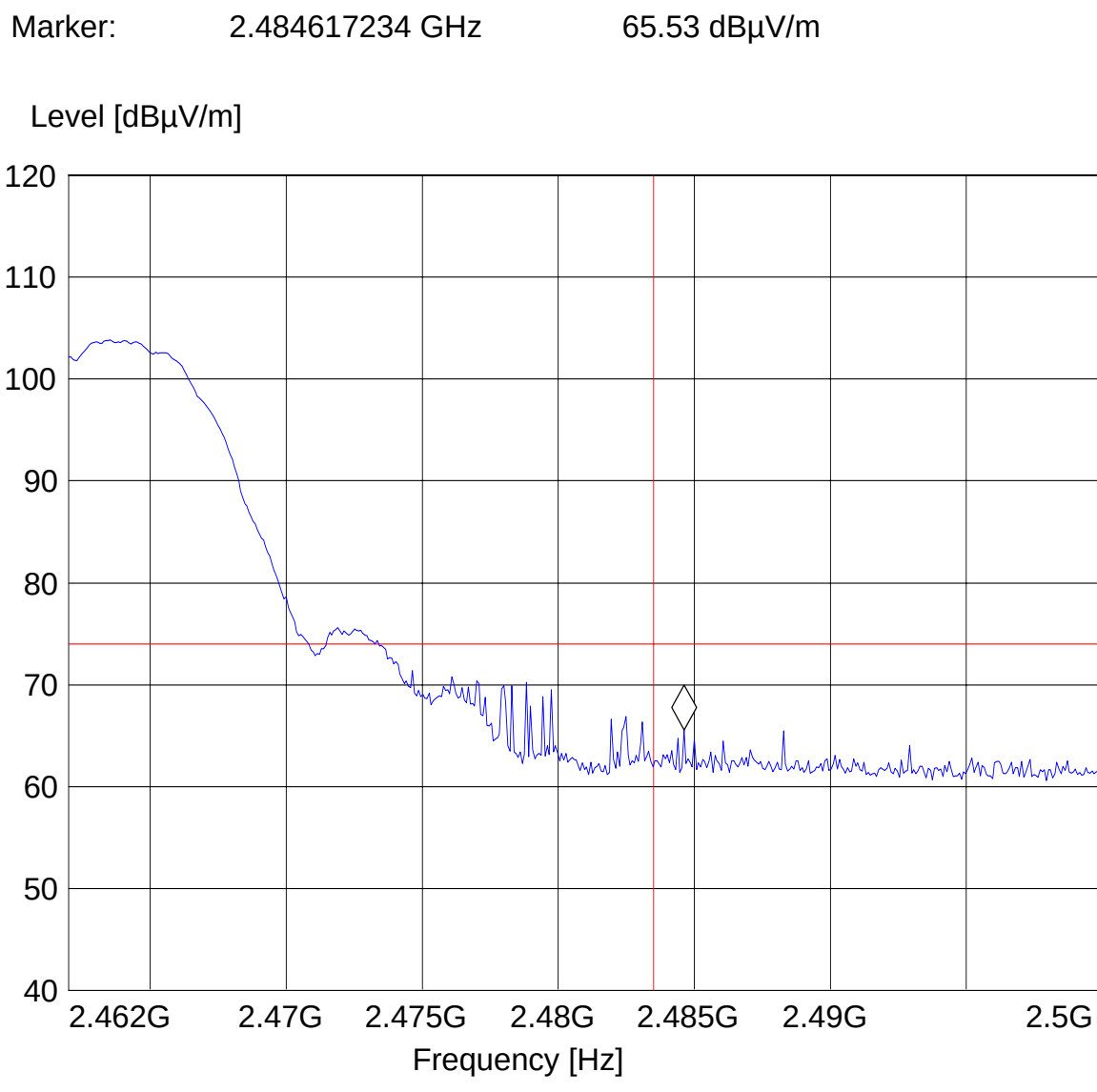


BAND EDGE COMPLIANCE**§15.247 (d) & RSS-210(A8.5)****SIBERIA 802.11b****High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)**

EUT: Siberia
Customer: Broadcom
Test Mode: 802.11 b ; ch 11; Auxiliary antenna
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Power Supply

SWEEP TABLE: "FCC15.247 HBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



BAND EDGE COMPLIANCE**§15.247 (d) & RSS-210(A8.5)****SIBERIA 802.11b****High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)**

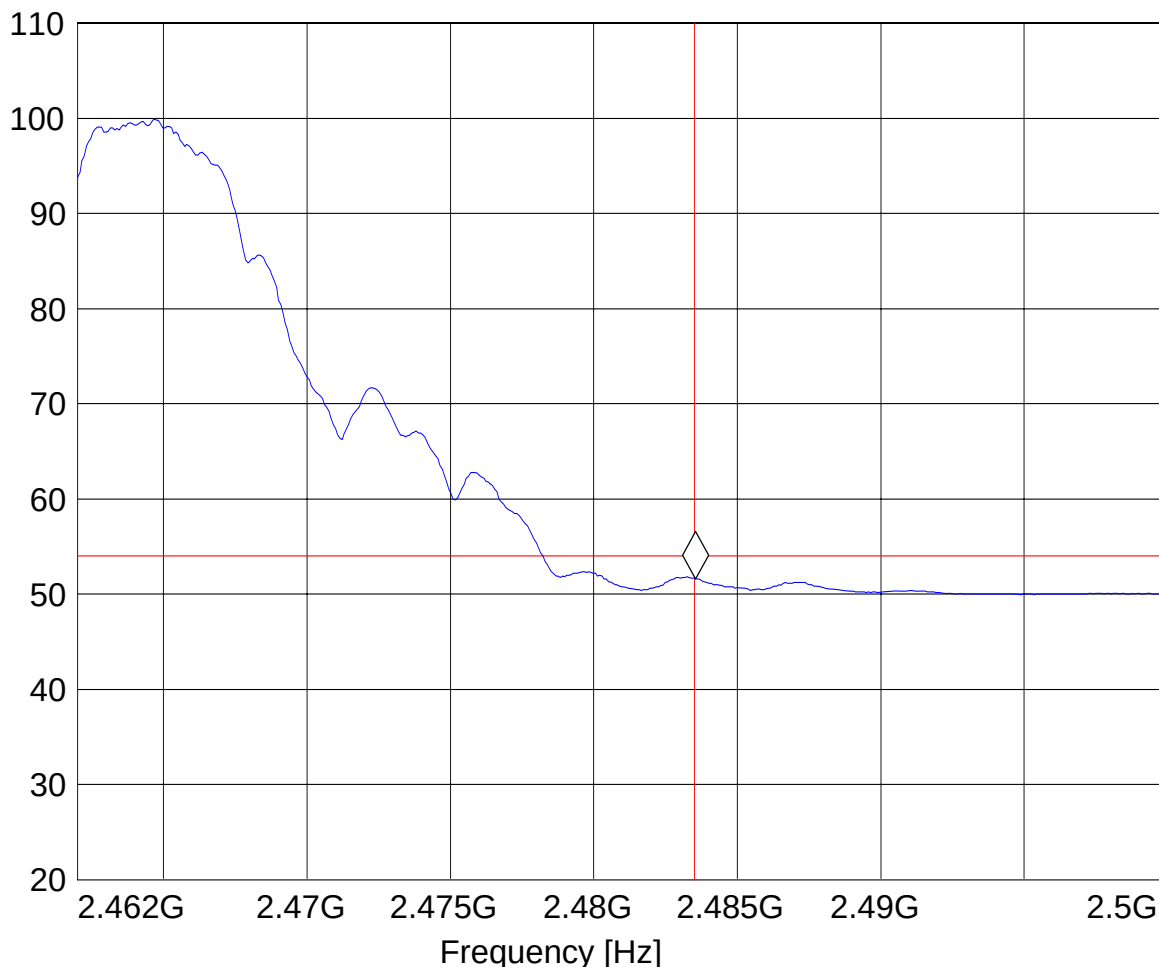
EUT: Siberia
Customer: Broadcom
Test Mode: 802.11 b ; ch 11; Auxiliary antenna
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Power Supply

SWEEP TABLE: "FCC15.247 HBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

Marker: 2.483551102 GHz 51.64 dBμV/m

Level [dBμV/m]



**BAND EDGE COMPLIANCE****§15.247 (d) & RSS-210(A8.5)****SIBERIA 802.11g****Low frequency section (spurious in the restricted band 2310 – 2390 MHz)**

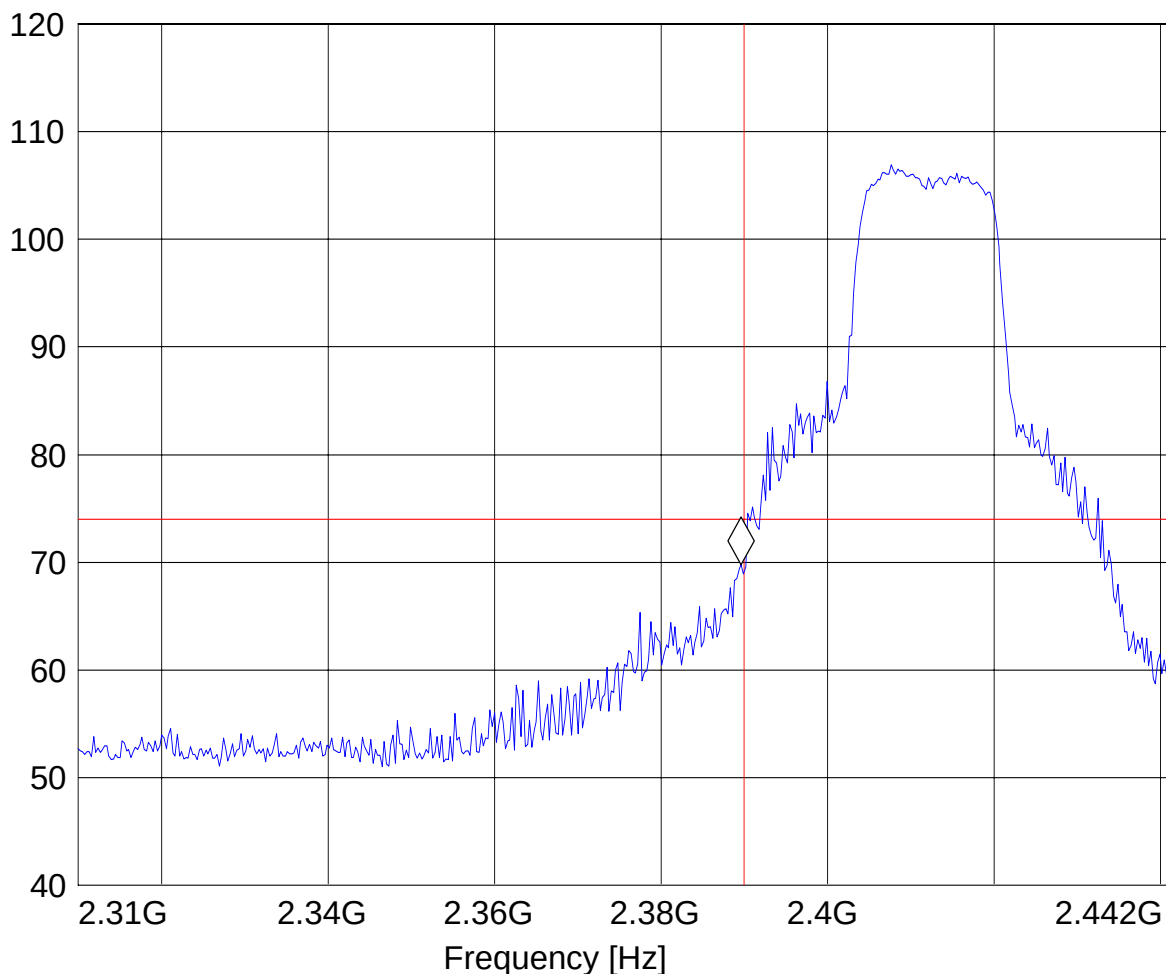
EUT: Siberia
Customer: Broadcom
Test Mode: 802.11 g ; ch 1; Auxiliary antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Power Supply

SWEEP TABLE: "FCC15.247 LBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.389623246 GHz 69.78 dB μ V/m

Level [dB μ V/m]

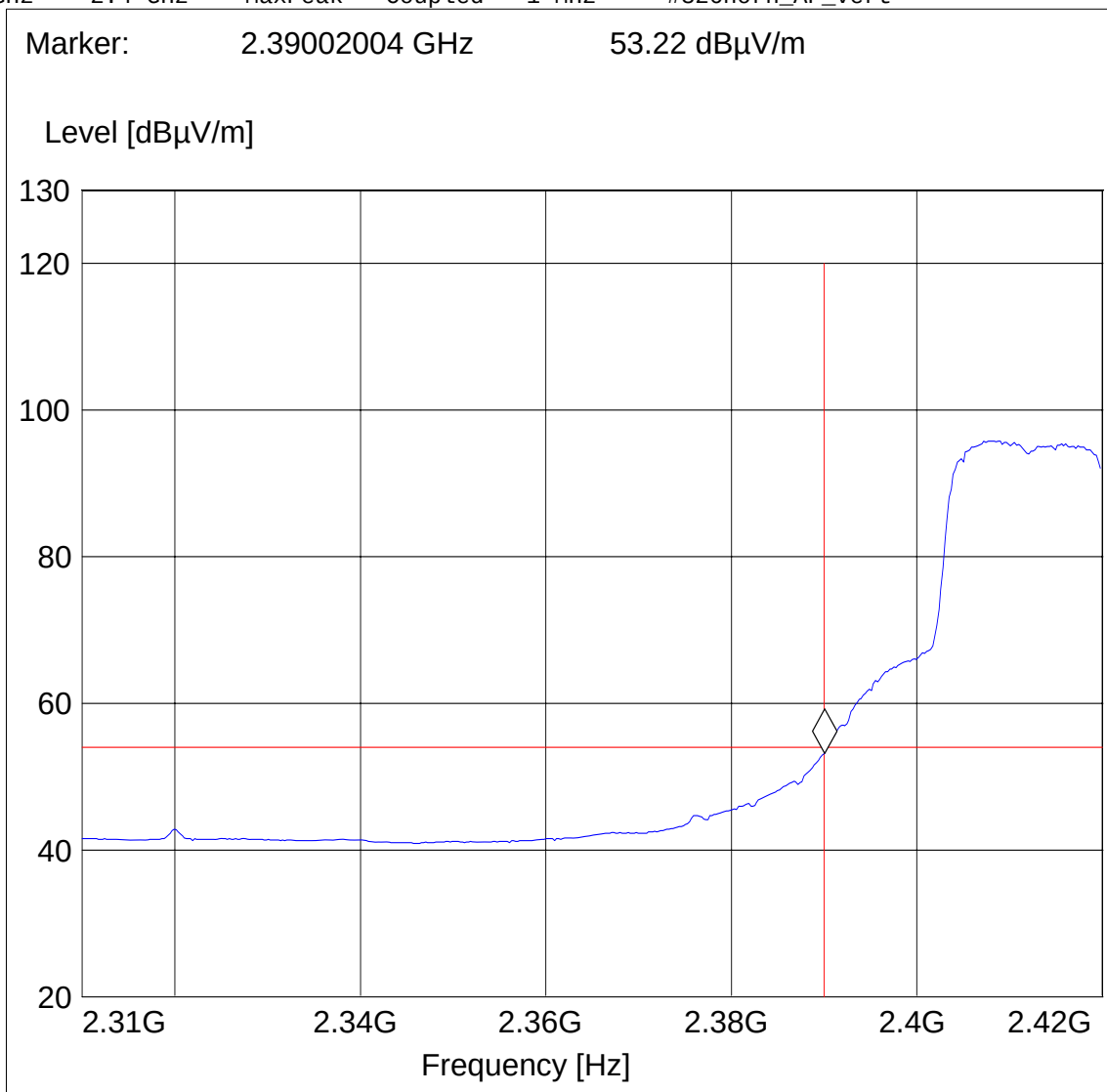


BAND EDGE COMPLIANCE**§15.247 (d) & RSS-210(A8.5)****SIBERIA 802.11g****Low frequency section (spurious in the restricted band 2310 – 2390 MHz)**

EUT: Siberia
Customer: Broadcom
Test Mode: 802.11 g ; ch 1; Auxiliary antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Power Supply

SWEEP TABLE: "FCC15.247 LBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



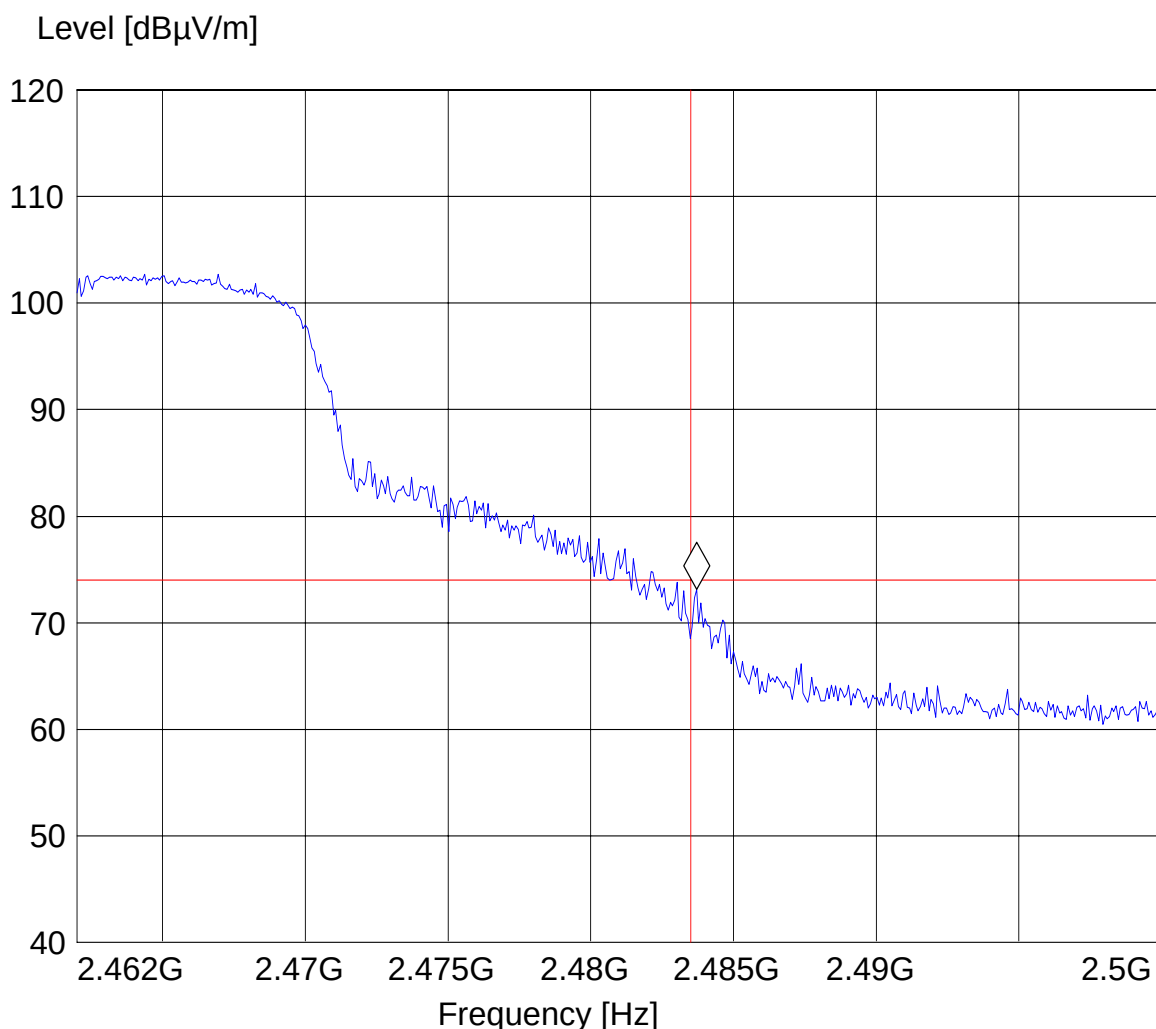
**BAND EDGE COMPLIANCE****§15.247 (d) & RSS-210(A8.5)****SIBERIA 802.11 g****High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)**

EUT: Siberia
Customer: Broadcom
Test Mode: 802.11 g ; ch 11; Auxillary antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Power Supply

SWEEP TABLE: "FCC15.247 HBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.483703407 GHz 73.09 dBμV/m



BAND EDGE COMPLIANCE**§15.247 (d) & RSS-210(A8.5)****SIBERIA 802.11 g****High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)**

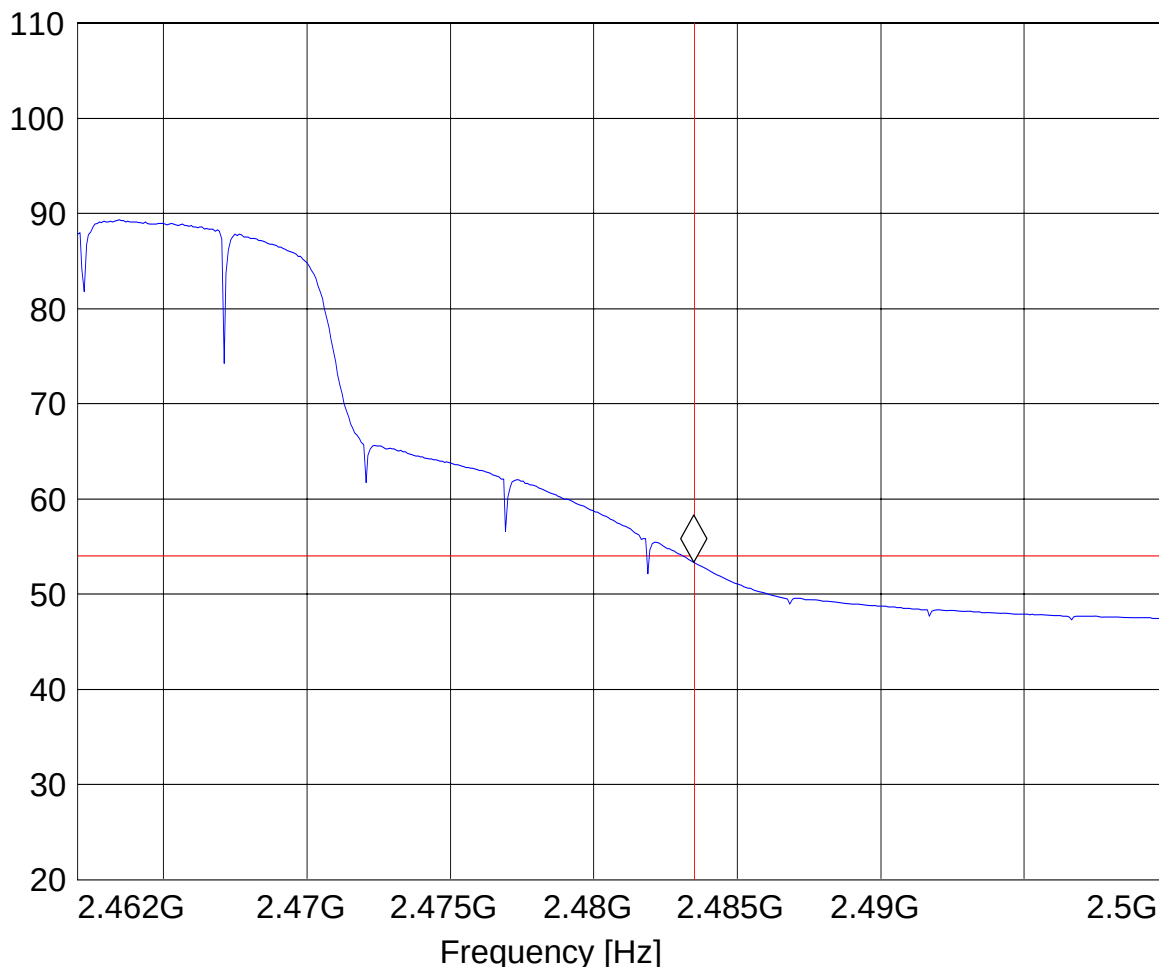
EUT: Siberia
Customer: Broadcom
Test Mode: 802.11 g ; ch 11; Auxillary antenna
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan M.
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247 HBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

Marker: 2.48347495 GHz 53.35 dBμV/m

Level [dBμV/m]



**BAND EDGE COMPLIANCE****§15.247 (d) & RSS-210(A8.5)****PARKER 802.11b****Low frequency section (spurious in the restricted band 2310 – 2390 MHz)**

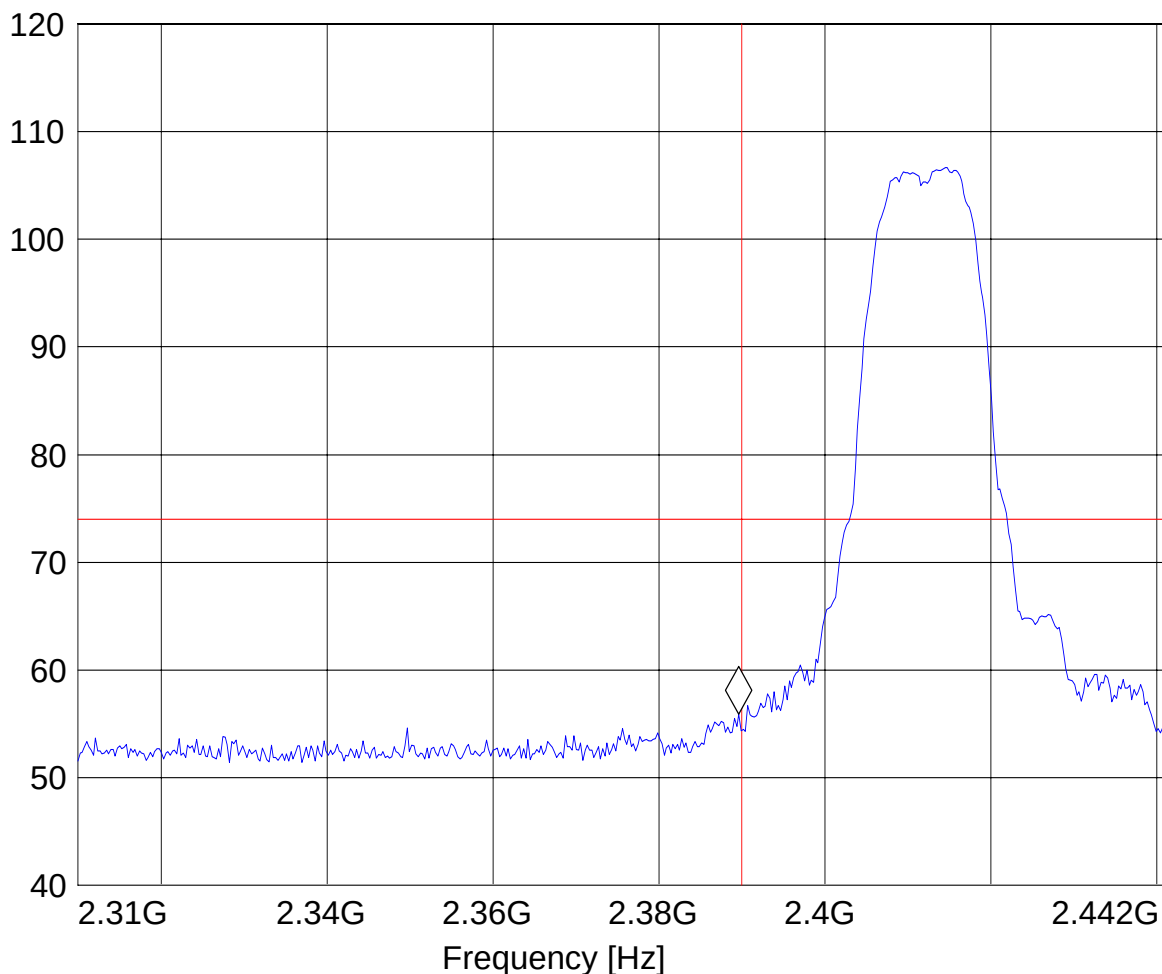
EUT: Parker
Customer: Broadcom
Test Mode: 802.11b, ch 1, Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247 LBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.389623246 GHz 55.9 dBμV/m

Level [dBμV/m]



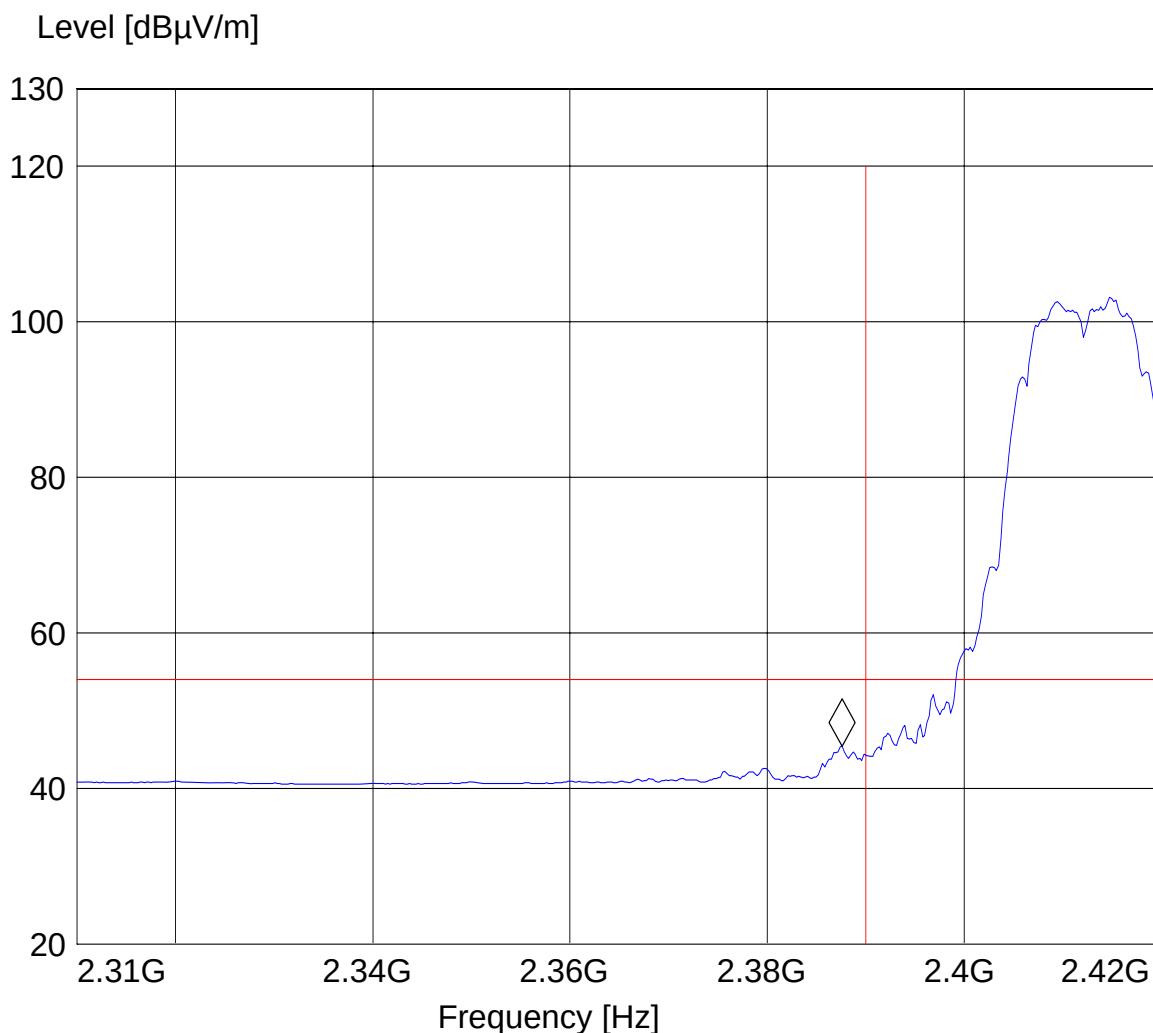
BAND EDGE COMPLIANCE**§15.247 (d) & RSS-210(A8.5)****PARKER 802.11b****Low frequency section (spurious in the restricted band 2310 – 2390 MHz)**

EUT: Parker
Customer: Broadcom
Test Mode: 802.11b, ch 1, Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247 LBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.38759519 GHz 45.44 dBμV/m

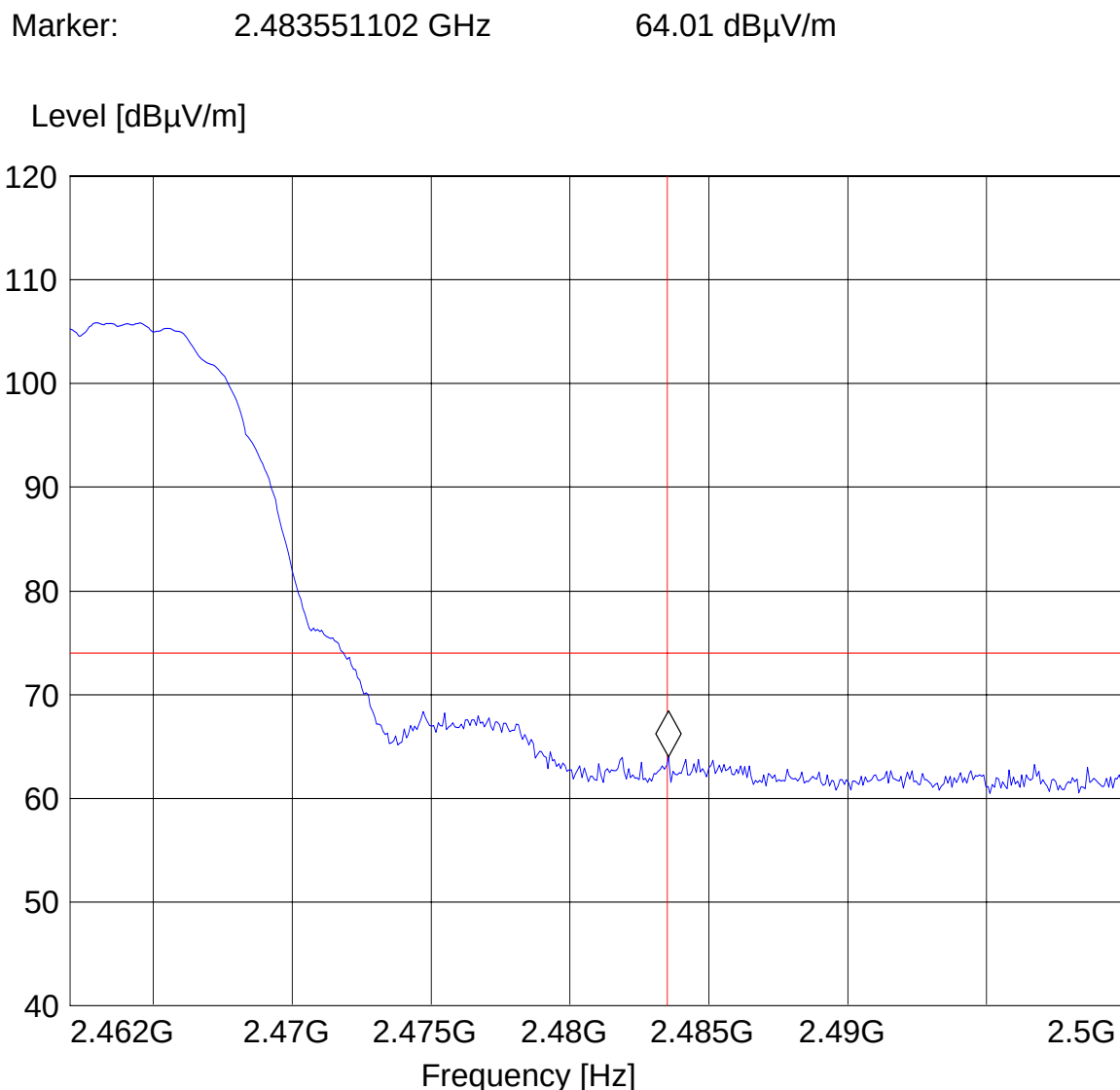


**BAND EDGE COMPLIANCE****§15.247 (d) & RSS-210(A8.5)****PARKER 802.11 b****High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)**

EUT: Parker
Customer: Broadcom
Test Mode: 802.11b, ch 11, Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247 HBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

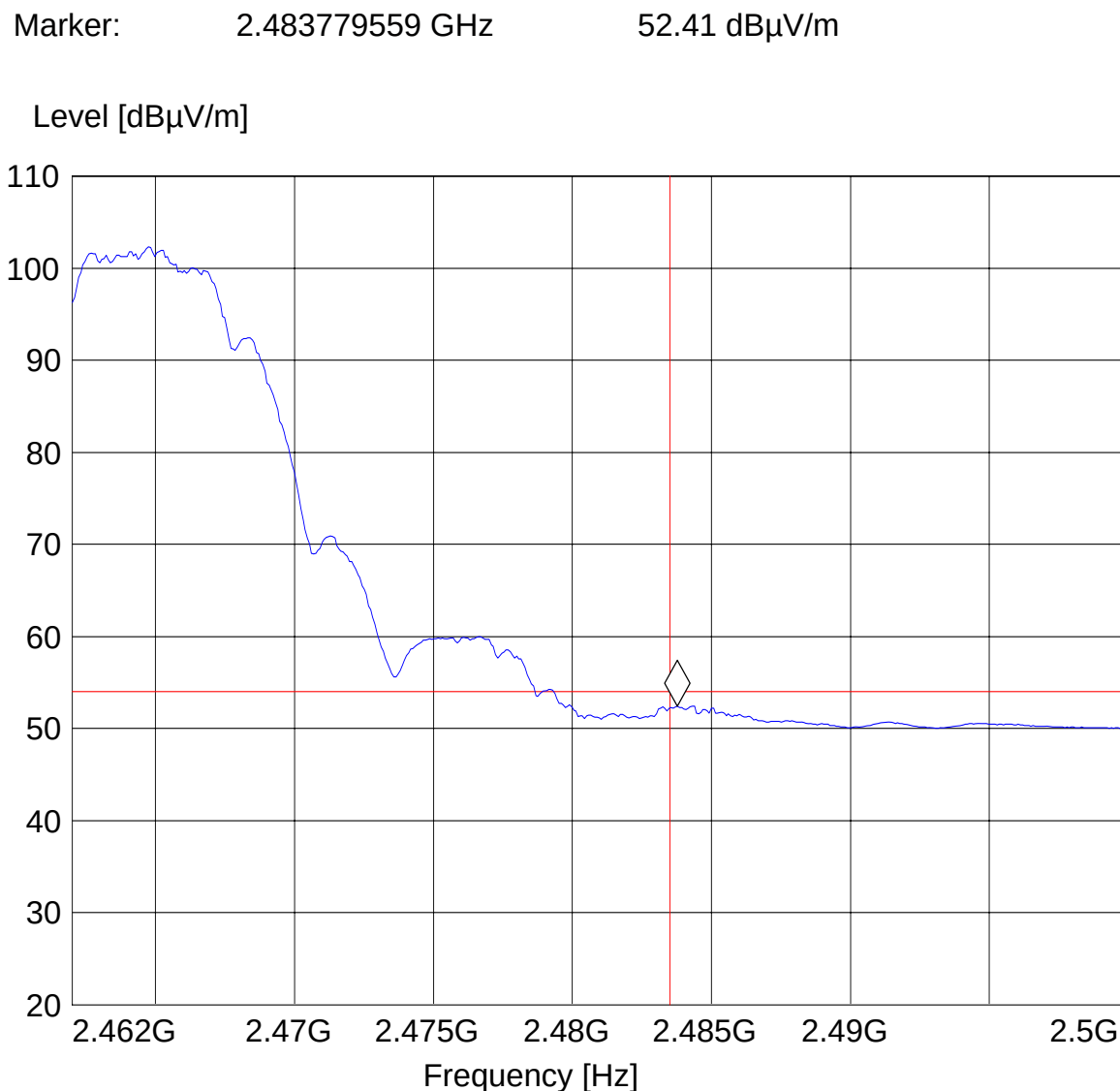


BAND EDGE COMPLIANCE**§15.247 (d) & RSS-210(A8.5)****PARKER 802.11 b****High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)**

EUT: Parker
Customer: Broadcom
Test Mode: 802.11b, ch 11, Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247 HBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

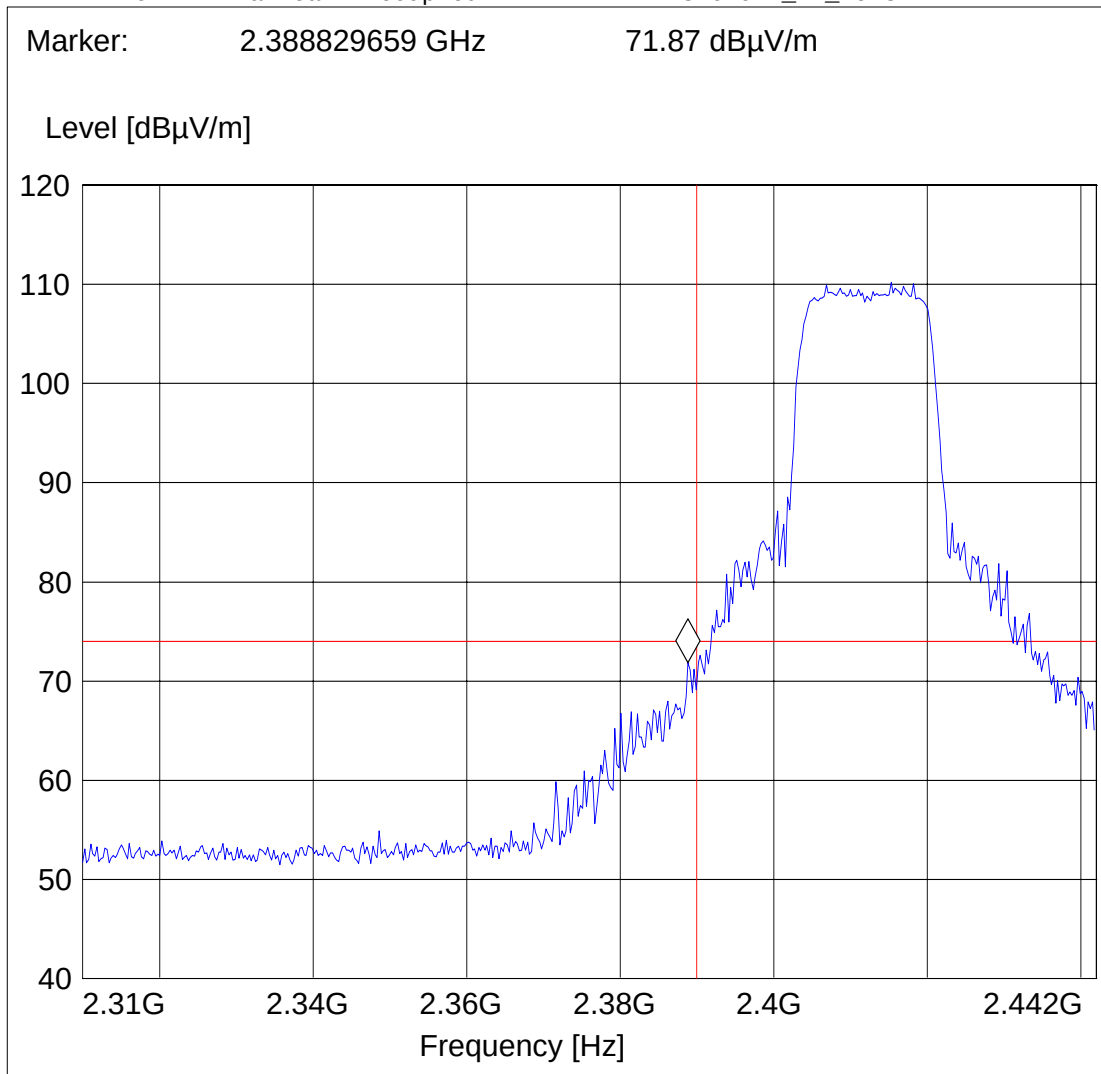


BAND EDGE COMPLIANCE**§15.247 (d) & RSS-210(A8.5)****PARKER 802.11g****Low frequency section (spurious in the restricted band 2310 – 2390 MHz)****411 Dixon Landing Road, Milpitas CA 95035, USA**

EUT: Parker
Customer: Broadcom
Test Mode: 802.11g, CH 1, Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247 LBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

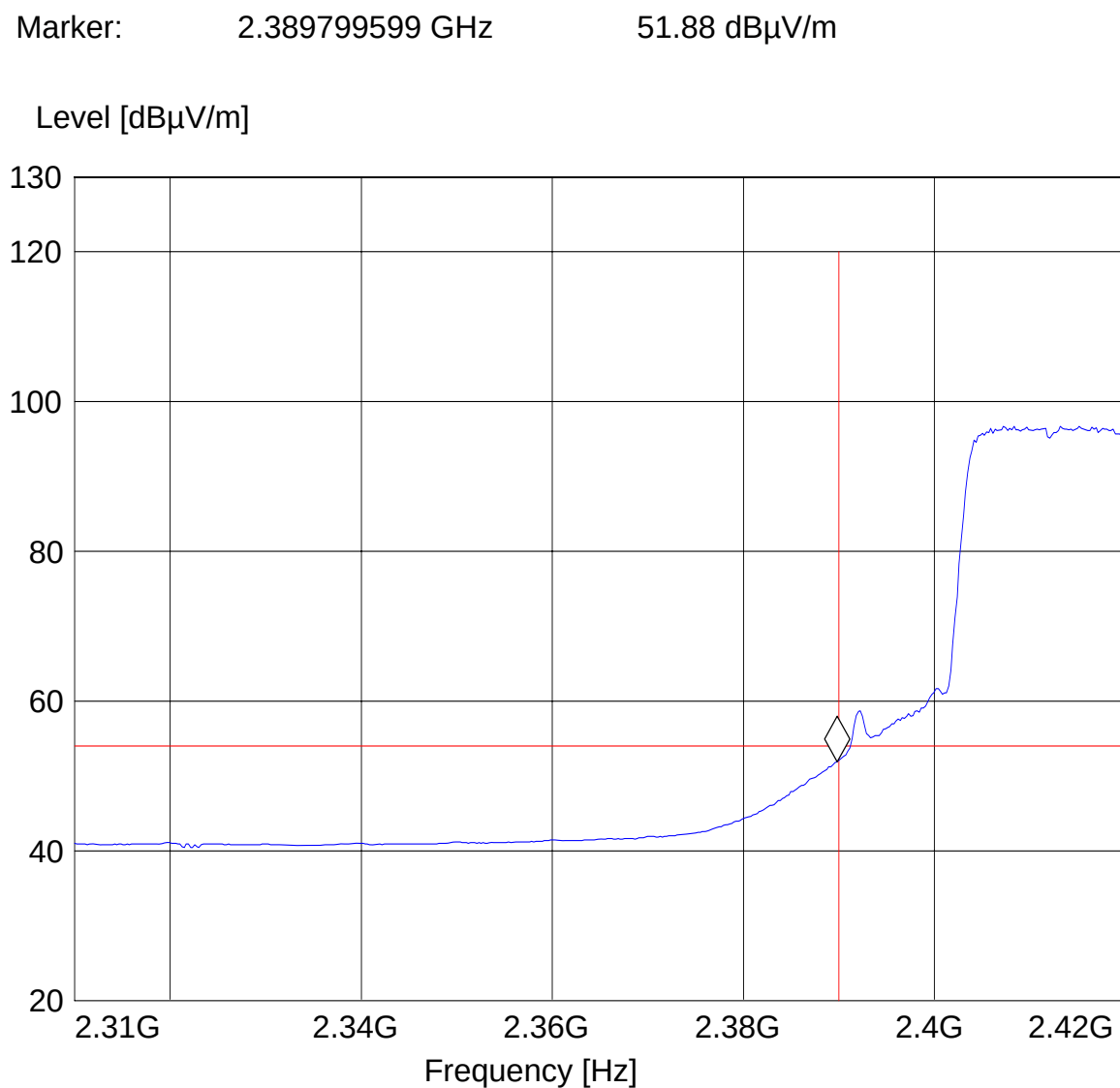


**BAND EDGE COMPLIANCE****§15.247 (d) & RSS-210(A8.5)****PARKER 802.11g****Low frequency section (spurious in the restricted band 2310 – 2390 MHz)**

EUT: Parker
Customer: Broadcom
Test Mode: 802.11g, CH 1, Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247 LBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

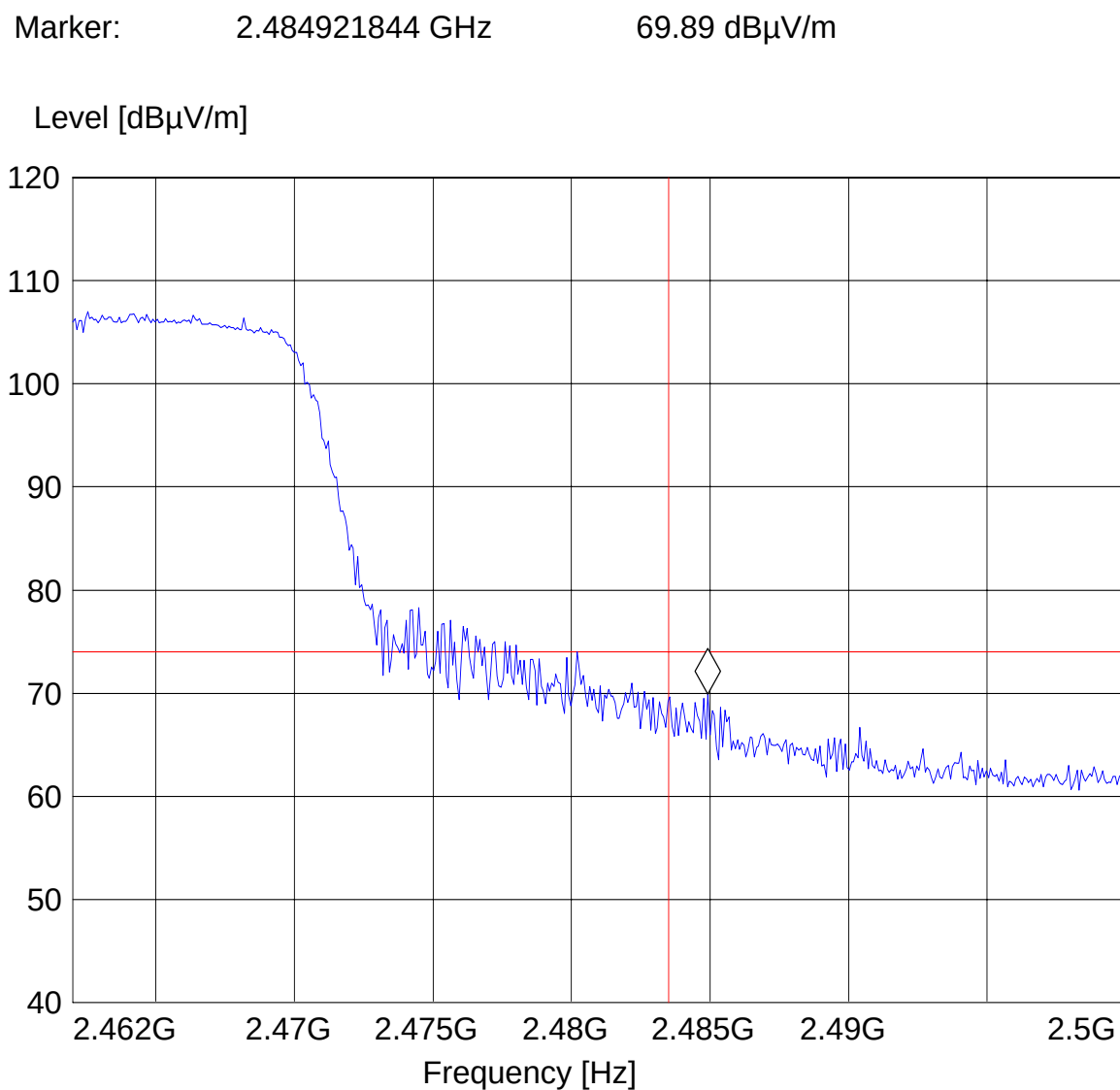


BAND EDGE COMPLIANCE**§15.247 (d) & RSS-210(A8.5)****PARKER 802.11 g****High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)**

EUT: Parker
Customer: Broadcom
Test Mode: 802.11g, CH 11, Mian
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247 HBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



BAND EDGE COMPLIANCE**§15.247 (d) & RSS-210(A8.5)****PARKER 802.11 g****High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)**

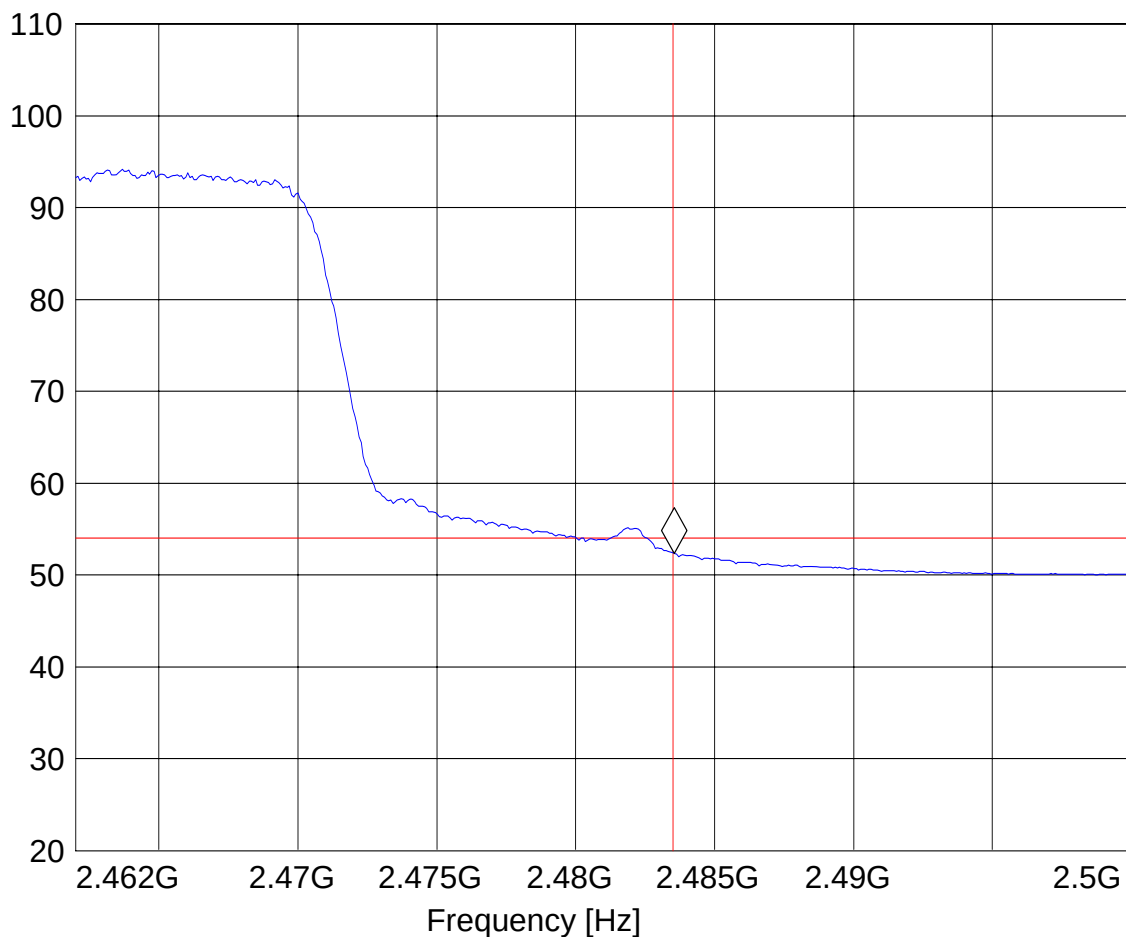
EUT: Parker
Customer: Broadcom
Test Mode: 802.11g, CH 11, Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247 HBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

Marker: 2.483551102 GHz 52.38 dBμV/m

Level [dBμV/m]



**BAND EDGE COMPLIANCE****§15.247 (d) & RSS-210(A8.5)****SPEARS 802.11b****Low frequency section (spurious in the restricted band 2310 – 2390 MHz)**

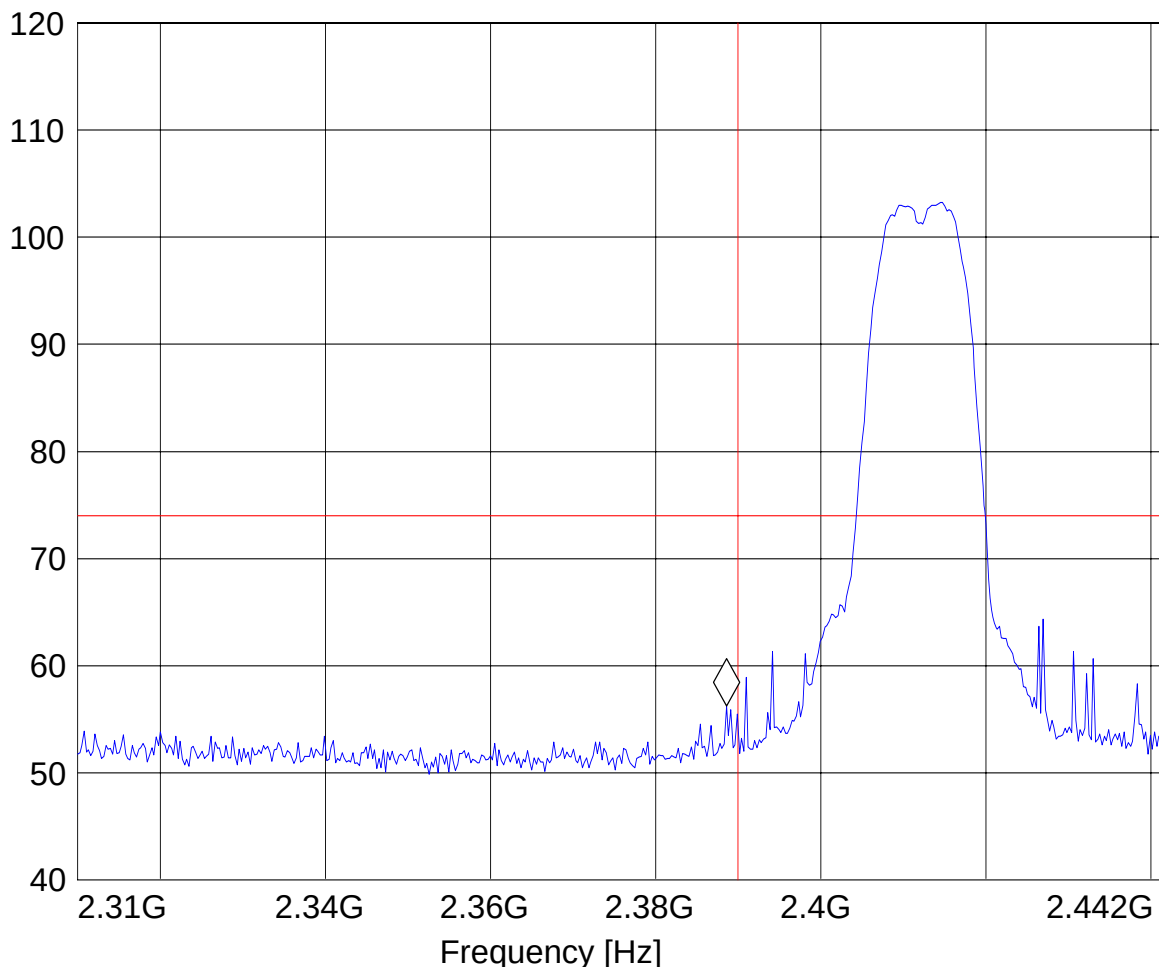
EUT: Spears
Customer: Broadcom
Test Mode: 802.11b, Ch. 1, Aux Antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247 LBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.3856513 GHz 56.21 dBμV/m

Level [dBμV/m]

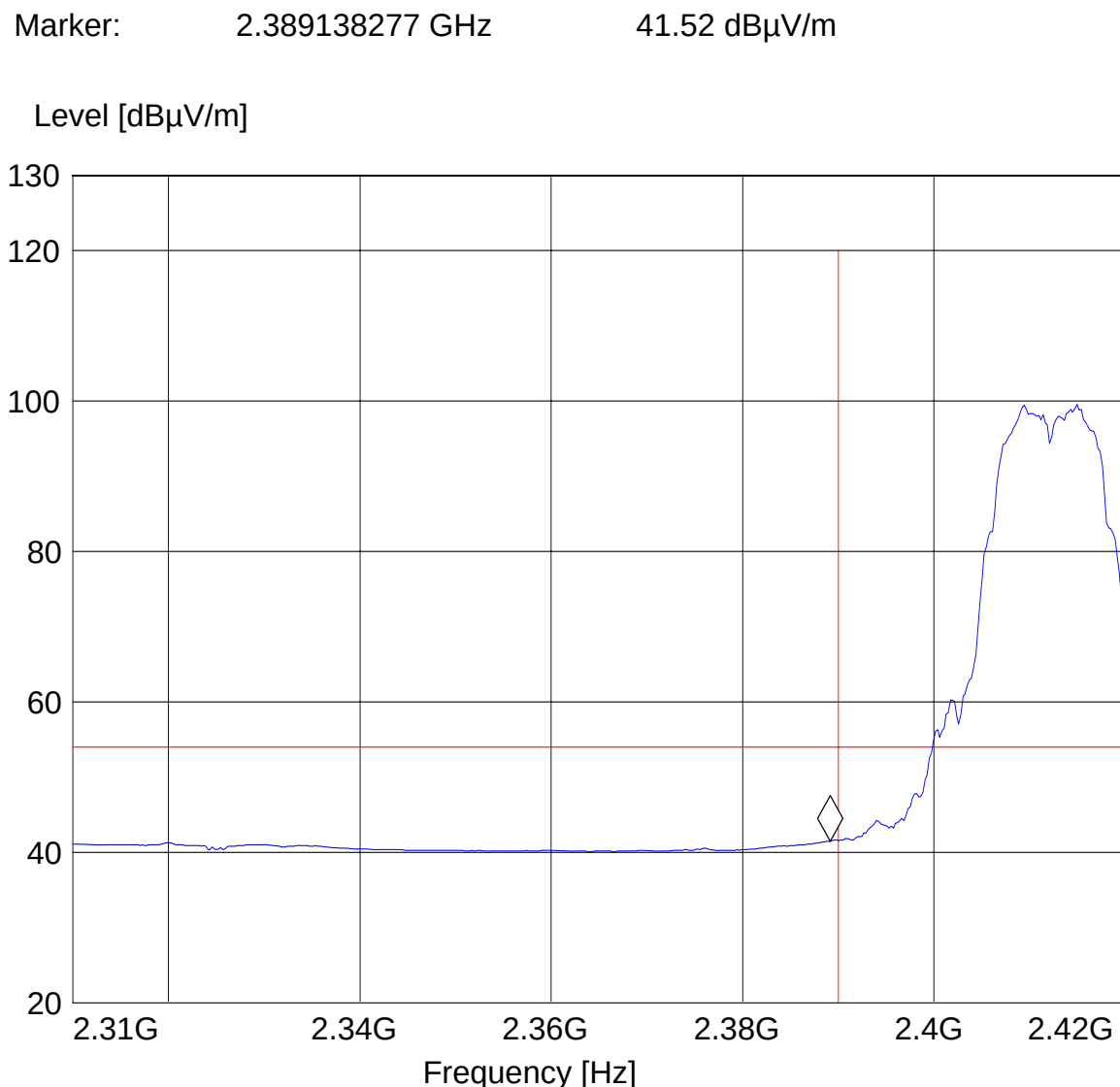


**BAND EDGE COMPLIANCE****§15.247 (d) & RSS-210(A8.5)****SPEARS 802.11b****Low frequency section (spurious in the restricted band 2310 – 2390 MHz)**

EUT: Spears
Customer: Broadcom
Test Mode: 802.11b, Ch. 1, Aux Antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247 LBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



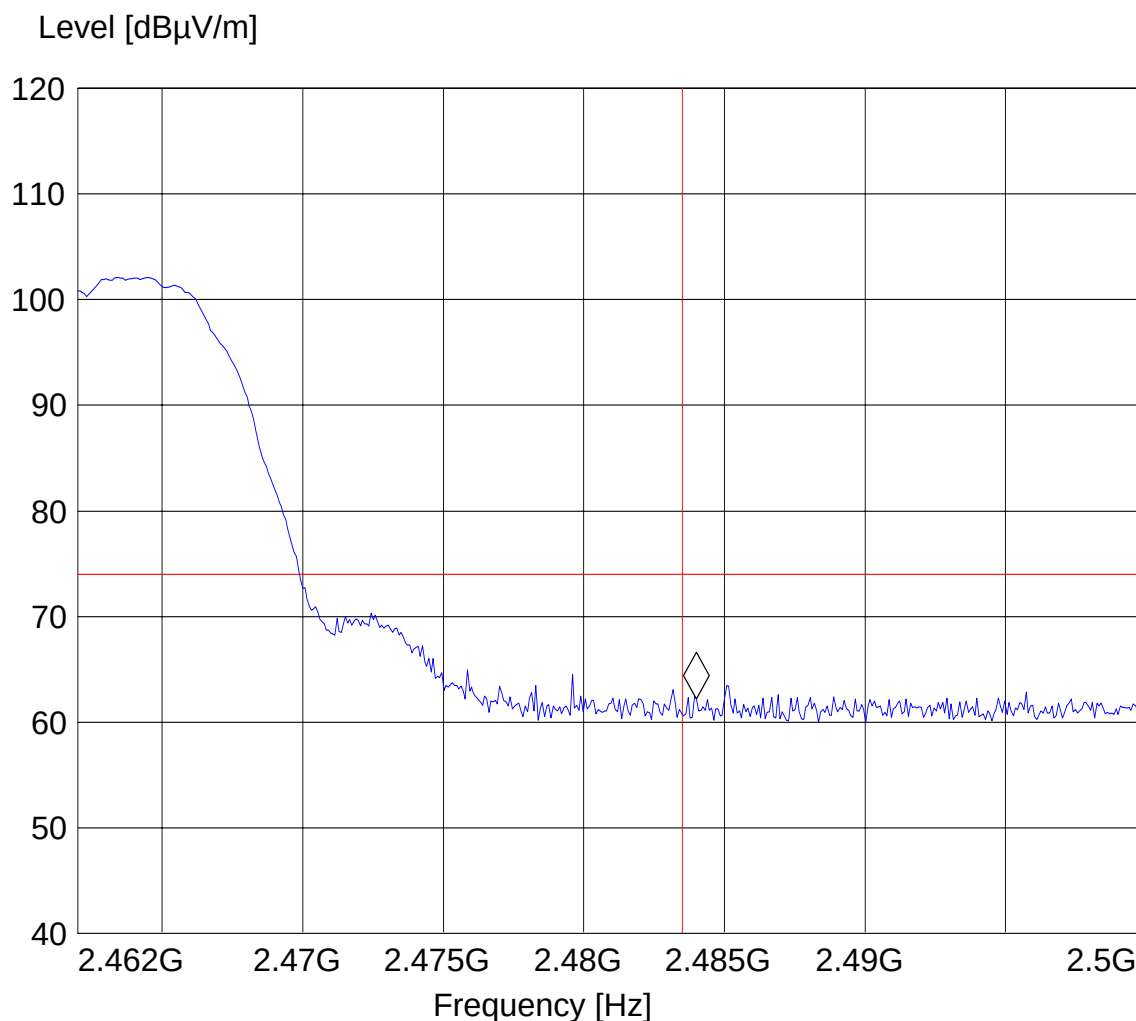
BAND EDGE COMPLIANCE**§15.247 (d) & RSS-210(A8.5)****SPEARS 802.11 b****High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)**

EUT: Spears
Customer: Broadcom
Test Mode: 802.11b, Ch. 11, Aux Antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247 HBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

Marker: 2.484008016 GHz 62.23 dBμV/m



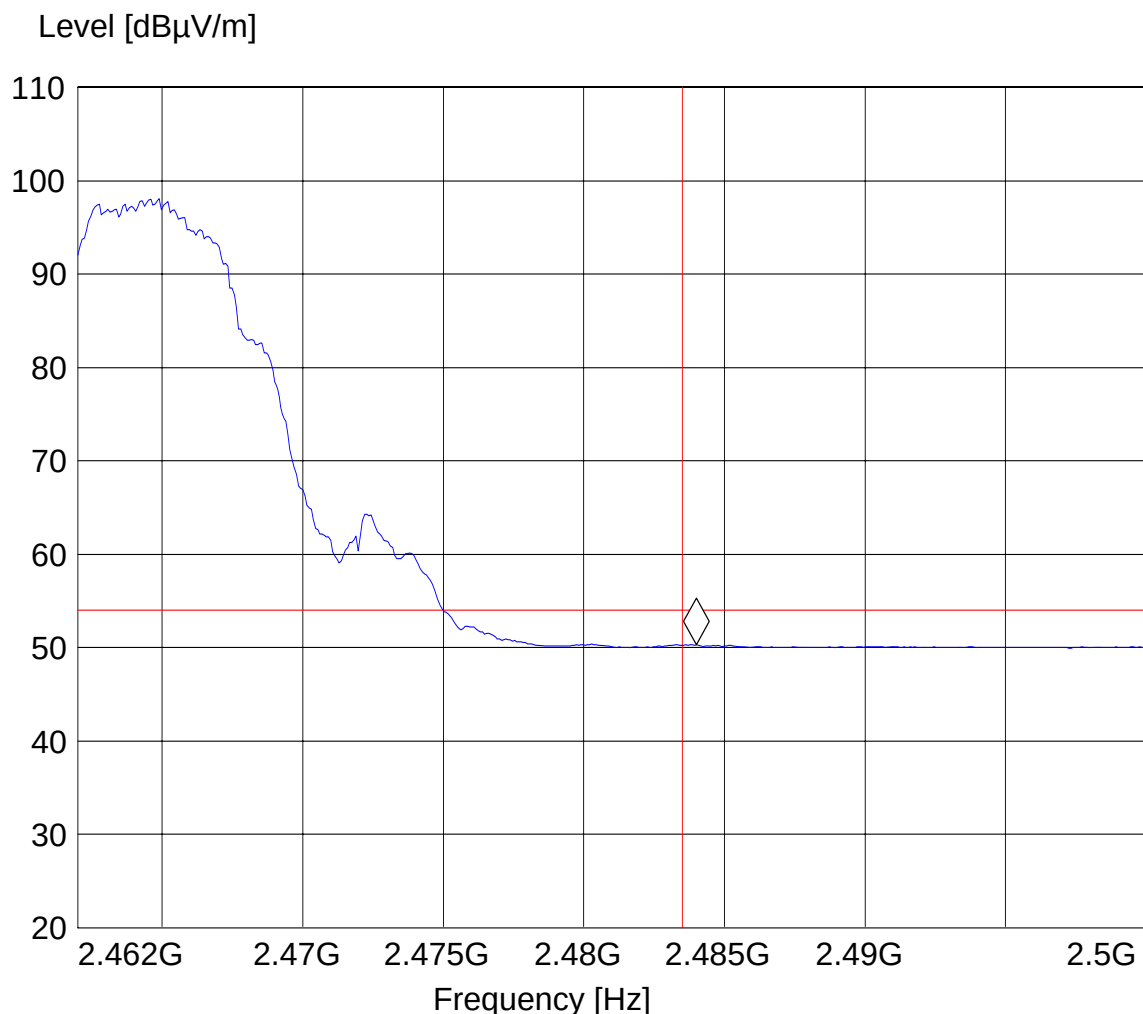
BAND EDGE COMPLIANCE**§15.247 (d) & RSS-210(A8.5)****SPEARS 802.11 b****High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)**

EUT: Parker
Customer: Broadcom
Test Mode: 802.11b, Ch. 11, Aux Antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247 HBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

Marker: 2.484008016 GHz 50.34 dB μ V/m

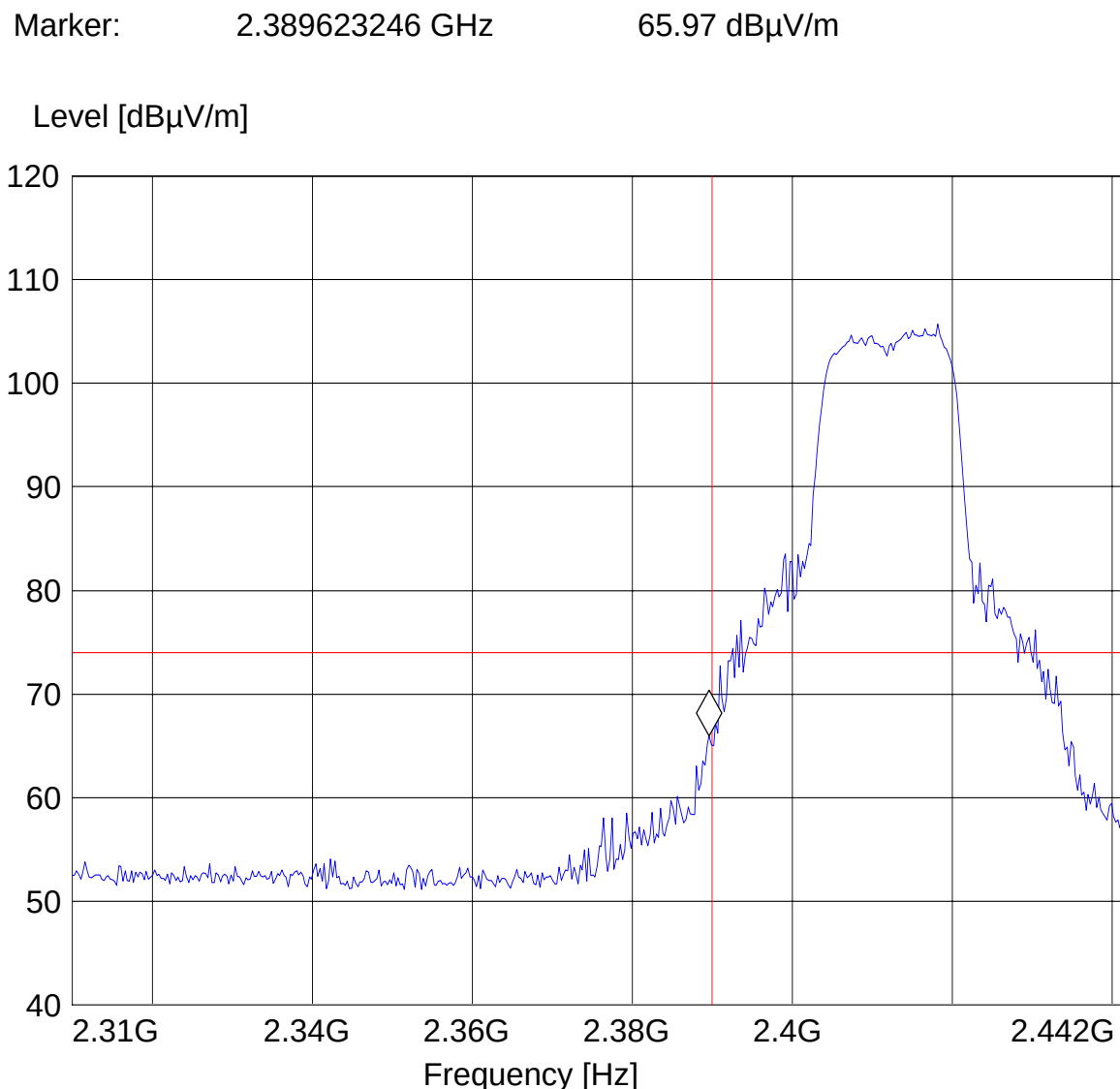


**BAND EDGE COMPLIANCE****§15.247 (d) & RSS-210(A8.5)****SPEARS 802.11g****Low frequency section (spurious in the restricted band 2310 – 2390 MHz)**

EUT: Spears
Customer: Broadcom
Test Mode: 802.11g, CH.1, Aux Antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247 LBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

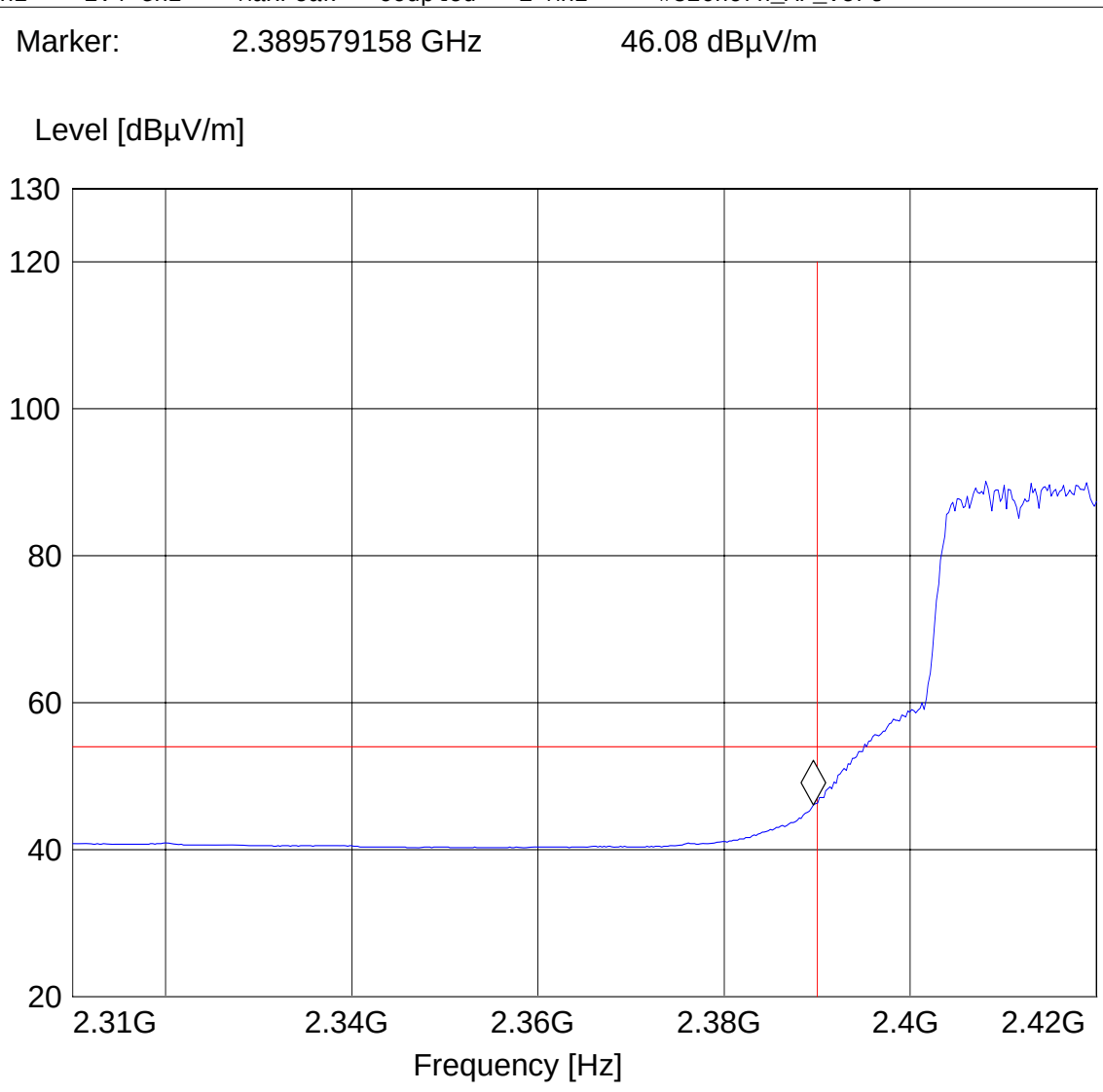


BAND EDGE COMPLIANCE**§15.247 (d) & RSS-210(A8.5)****SPEARS 802.11g****Low frequency section (spurious in the restricted band 2310 – 2390 MHz)**

EUT: Spears
Customer: Broadcom
Test Mode: 802.11g, CH.1, Aux Antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247 LBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.3 GHz	2.4 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

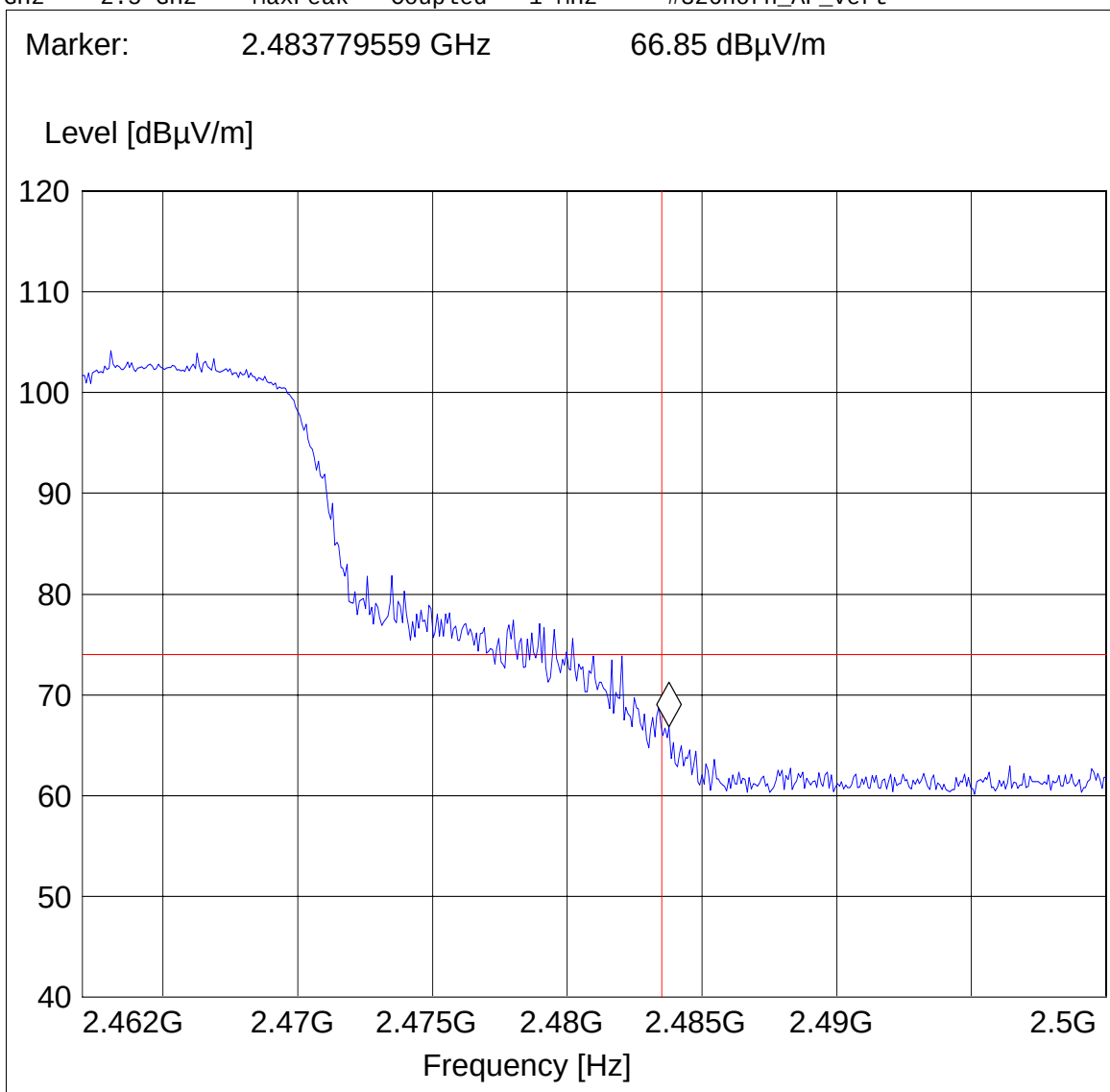


BAND EDGE COMPLIANCE**§15.247 (d) & RSS-210(A8.5)****SPEARS 802.11 g****High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)**

EUT: Spears
Customer: Broadcom
Test Mode: 802.11g, CH.11, Aux Antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247 HBE_PK"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert

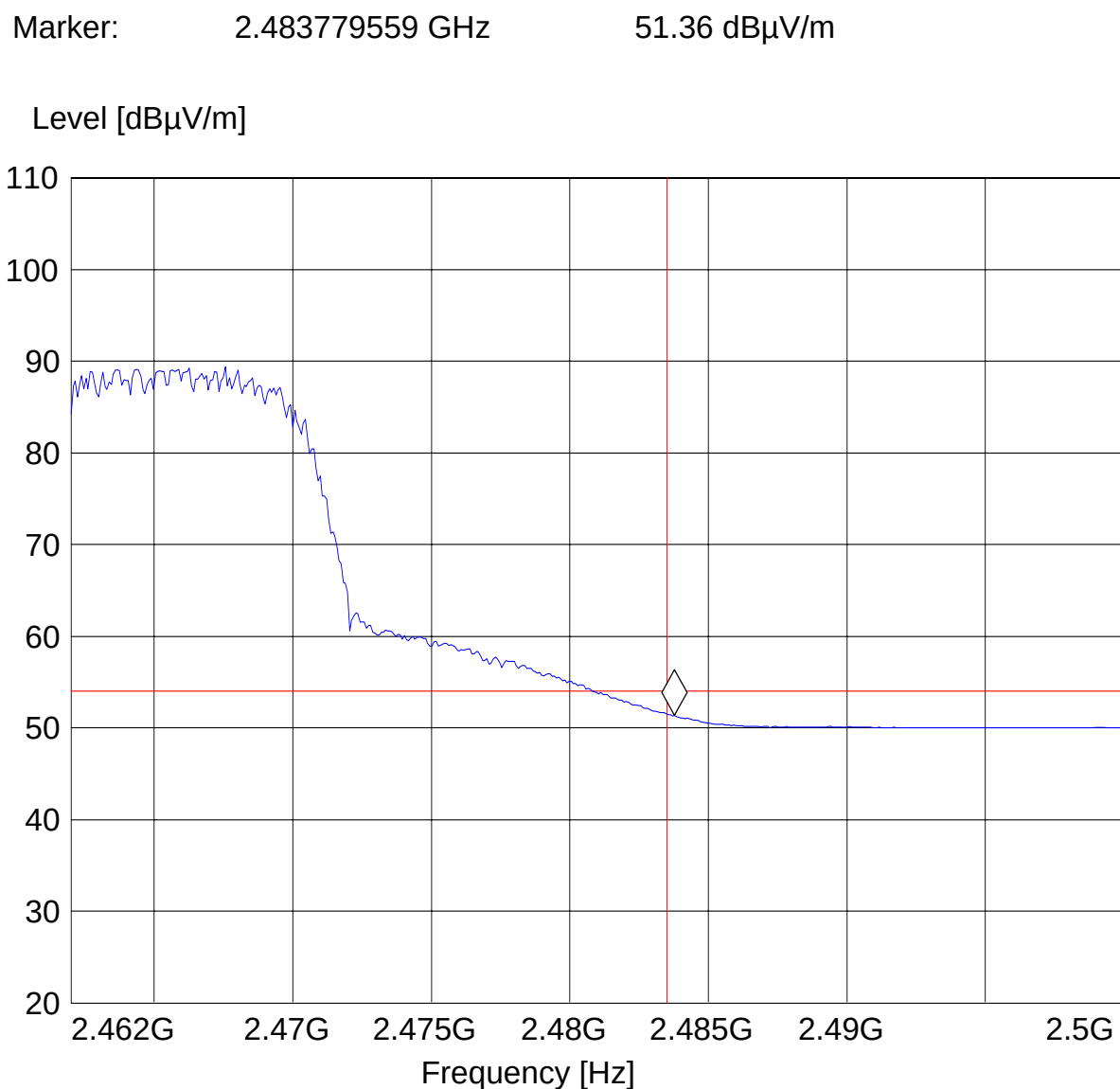
**BAND EDGE COMPLIANCE****§15.247 (d) & RSS-210(A8.5)**

SPEARS 802.11 g**High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)**

EUT: Spears
Customer: Broadcom
Test Mode: 802.11g, CH.11, Aux Antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247 HBE_AVG"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
2.5 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz



6.2 EMISSION LIMITATIONS – Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)**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)).

NOTES:

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.
3. Laptops were setup to transmit in low, middle, and high channels for both 802.11b and 802.11g mode.

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 (d) & RSS-210(A8.5):

SIBERIA (802.11b)

Transmit at Lowest channel Frequency 2412MHz			
Frequency (MHz)	Level (dBµV/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			
Transmit at Middle channel Frequency 2437MHz			
Frequency (MHz)	Level (dBµV/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			
Transmit at Highest channel Frequency 2462MHz			
Frequency (MHz)	Level (dBµV/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			

EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)**Lowest Channel (2412MHz): 30MHz – 1GHz****Note: This plot is valid for low, mid, high channels**

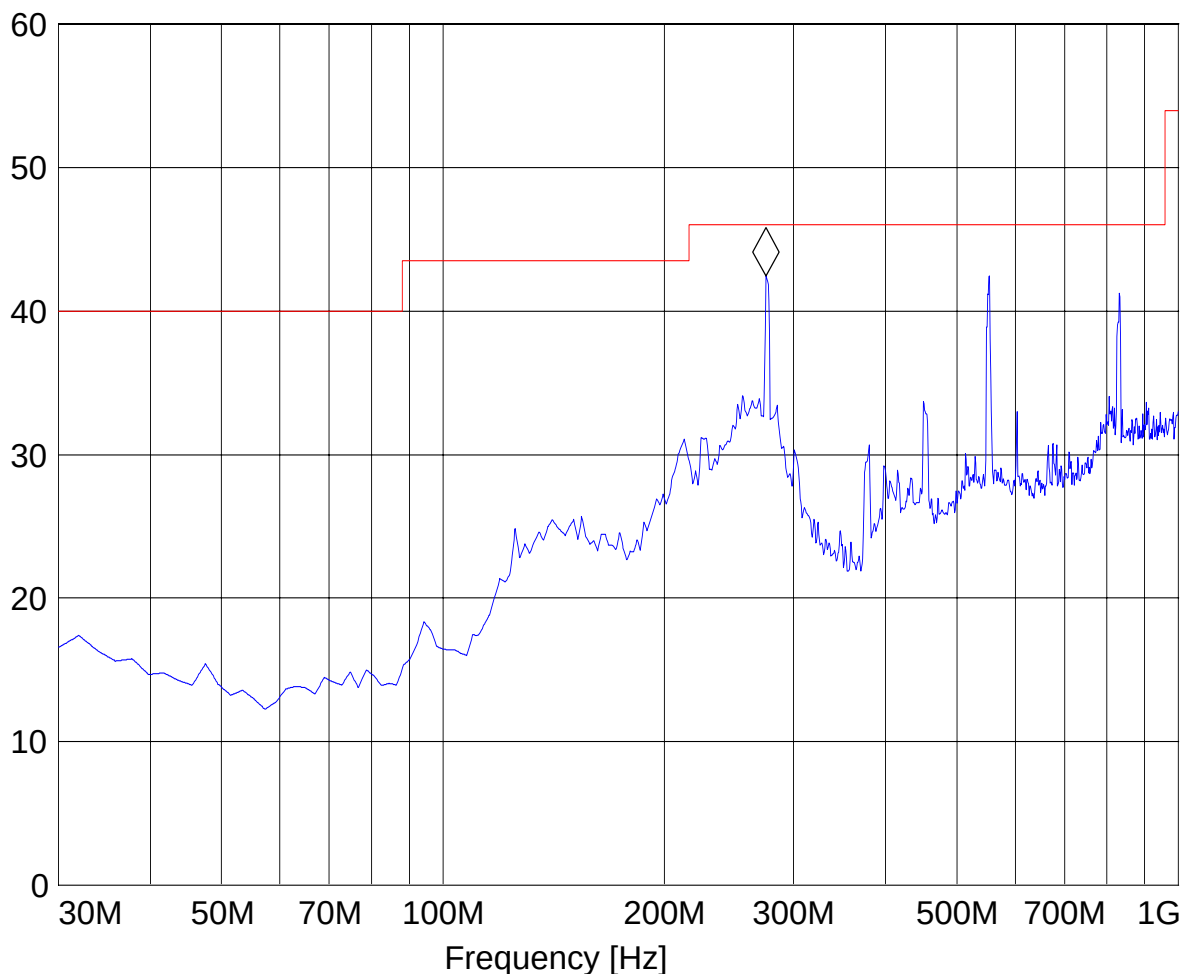
EUT: Dell Siberia
Customer: Broadcom
Test Mode: 802.11b, ch 1, Aux
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247_30M-1G_Ver"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Vert

Marker: 274.92986 MHz 42.43 dBμV/m

Level [dBμV/m]

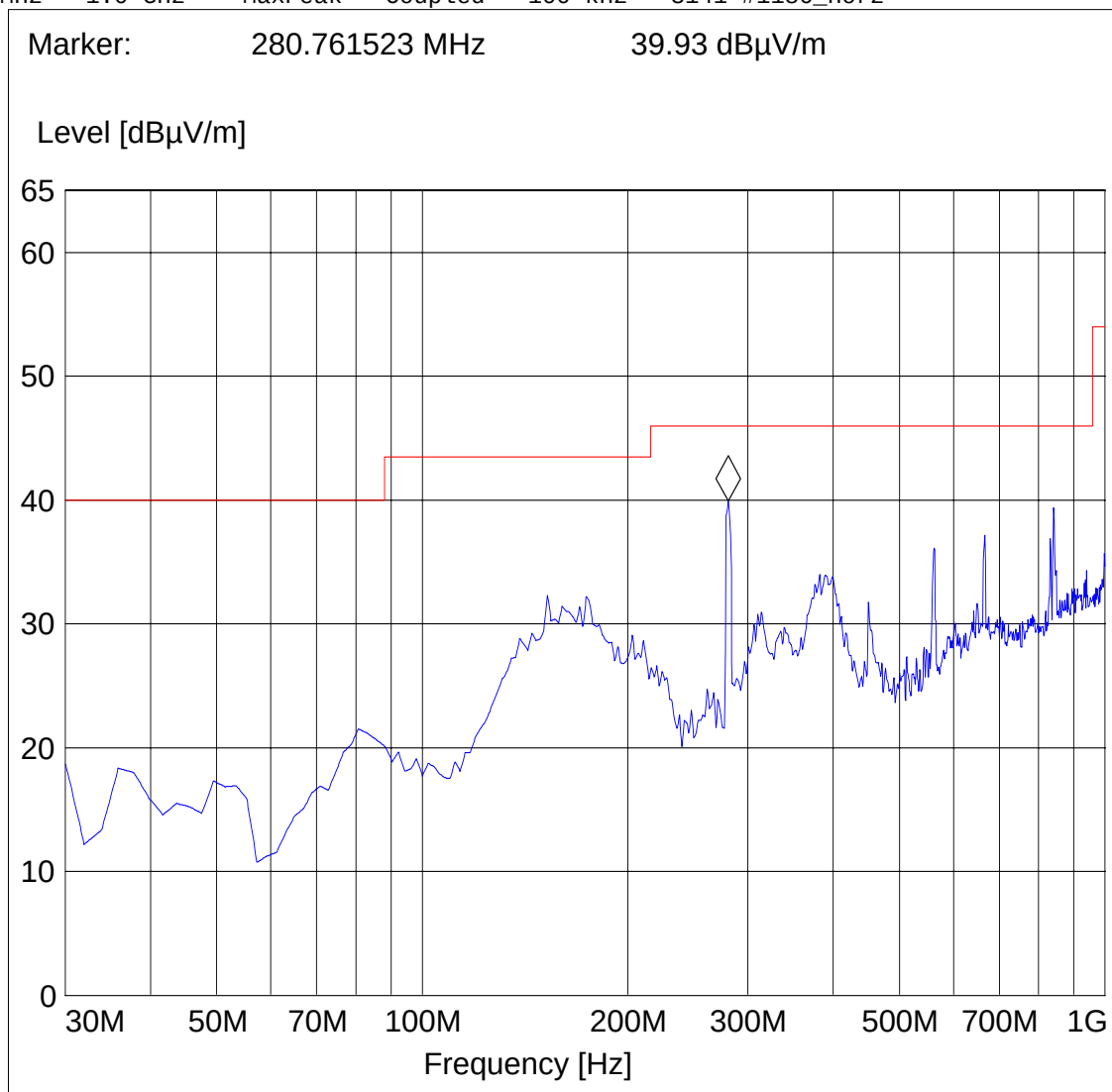


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)****Lowest Channel (2412MHz): 30MHz – 1GHz****Note: This plot is valid for low, mid, high channels**

EUT: Dell Siberia
Customer: Broadcom
Test Mode: 802.11b, ch 1, Aux
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247_30M-1G_Hor"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Horz



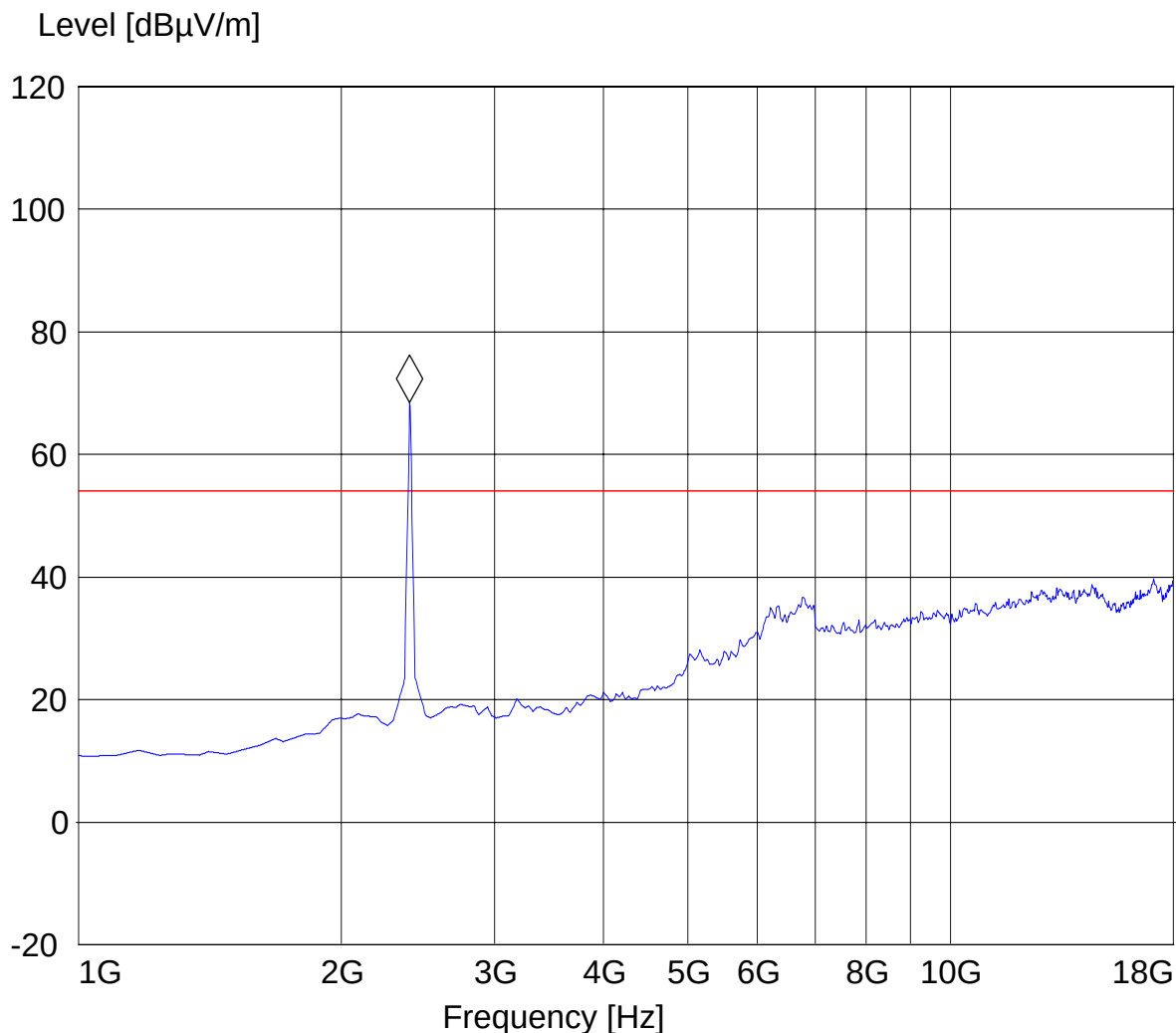
**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2412 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Siberia
Manufacturer: Broadcom
Test mode: 802.11 b ; ch 1; Auxiliary antenna
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan M.
Voltage: AC Power Supply

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

Marker: 2.396793587 GHz 68.52 dBμV/m



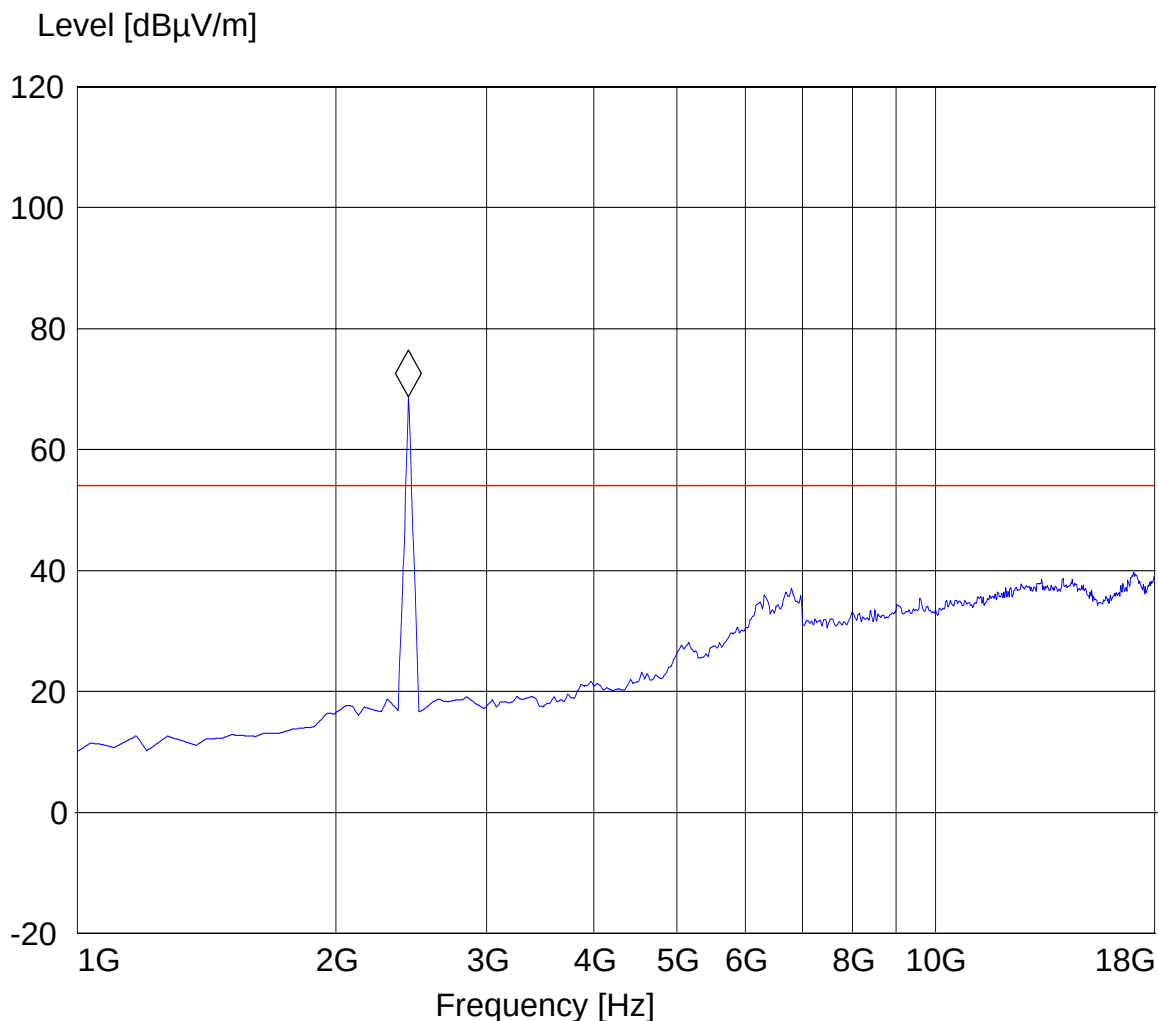
**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2437 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Siberia
Manufacturer: Broadcom
Test mode: 802.11 b ; ch 6; Auxiliary antenna
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan M.
Voltage: AC Power Supply

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

Marker: 2.430861723 GHz 68.67 dBμV/m

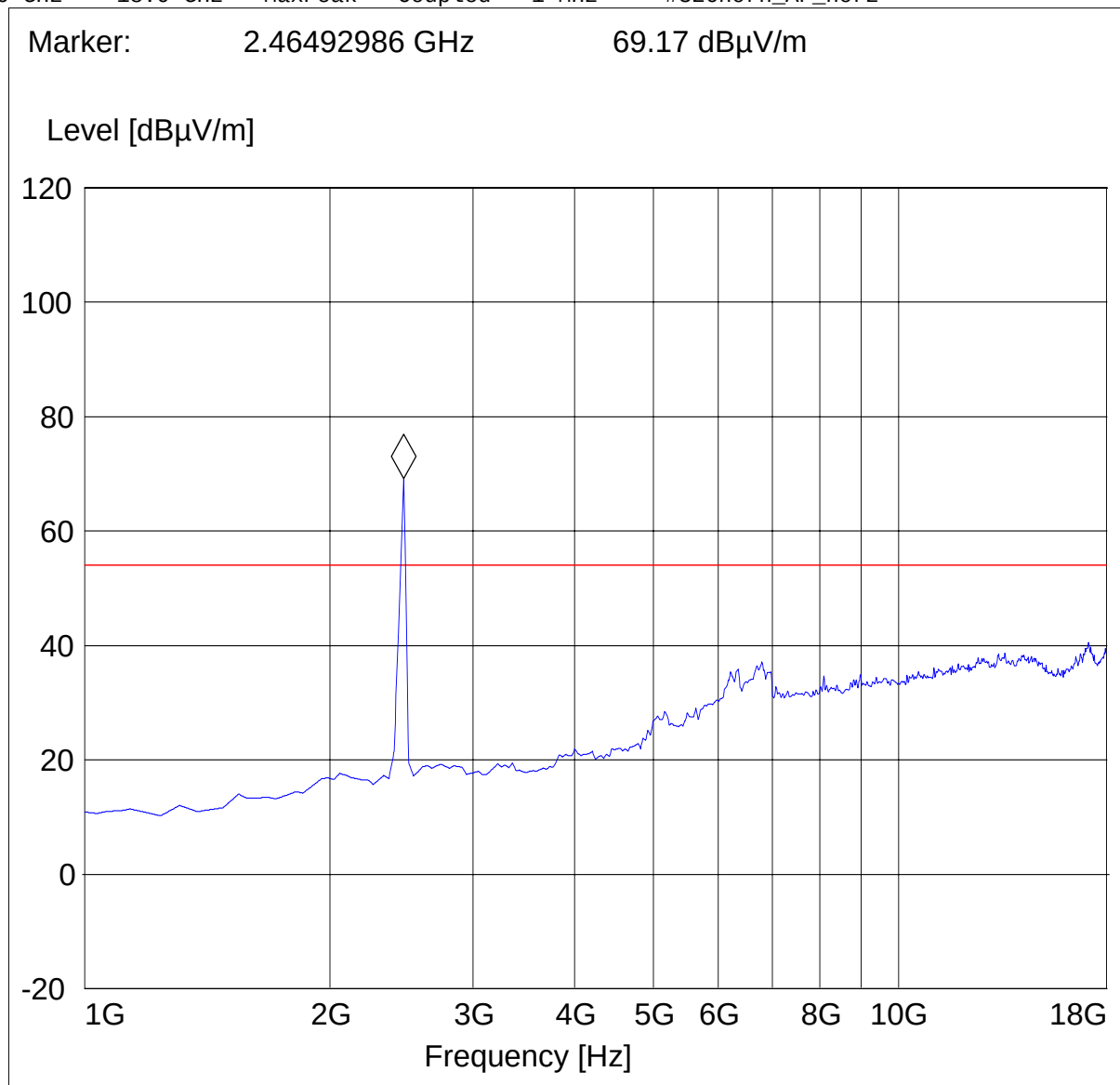


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2462 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Siberia
Manufacturer: Broadcom
Test mode: 802.11 b ; ch 11; Auxiliary antenna
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan M.
Voltage: AC Power Supply

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

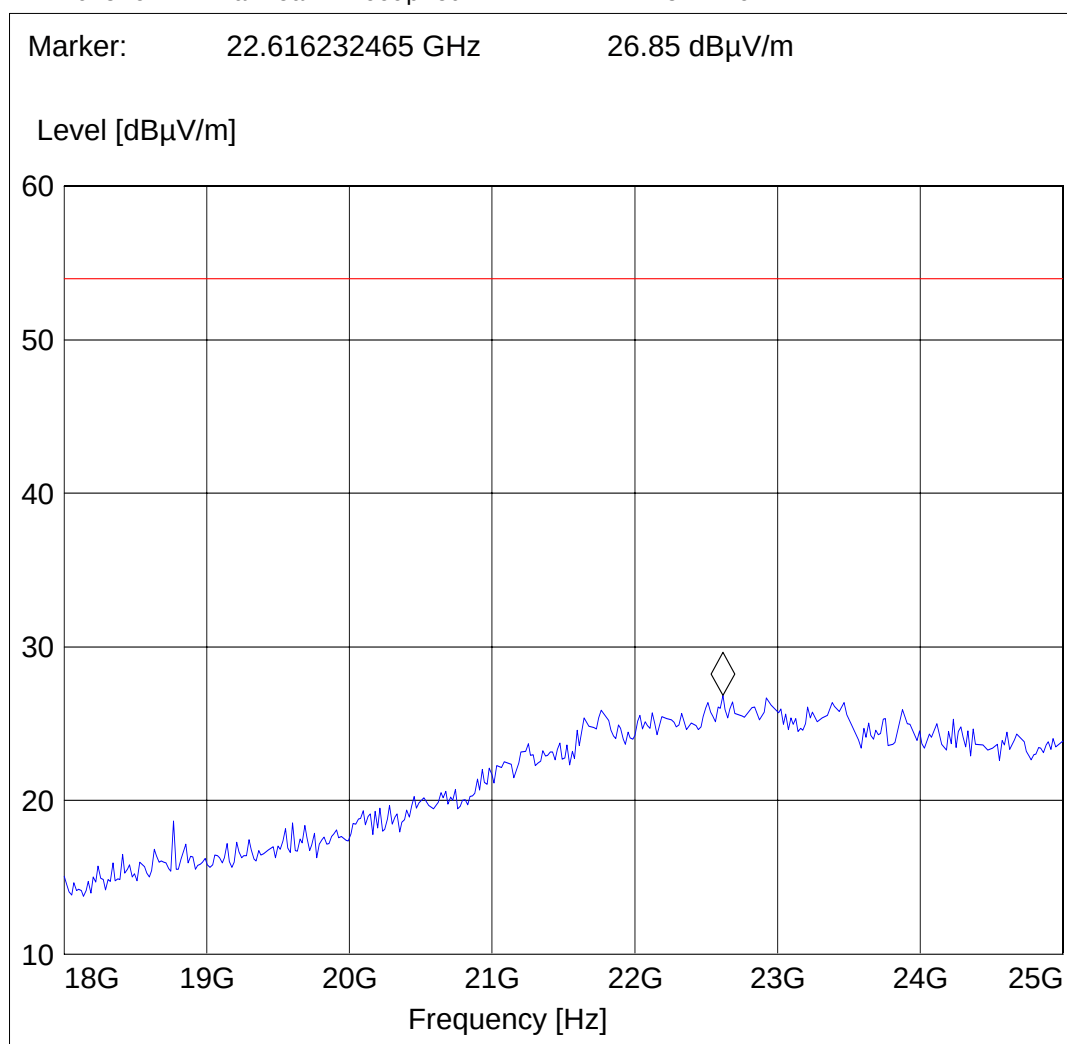


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
18GHz – 26.5GHz for low, middle, and high channels****Note: This plot is valid for low, mid, high channels (worst-case plot)****CETECOM Inc., 411 Dixon Landing Road, Milpitas CA 95035, USA**

EUT / Description: Siberia
Manufacturer: Broadcom
Test mode: 802.11 b ; Low, Middle, and High; Auxiliary antenna
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan M.
Voltage: AC Power Supply

SWEEP TABLE: "FCC15.247_18-26.5G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
18.0 GHz	26.5 GHz	MaxPeak	Coupled	1 MHz	#572 horn AF



**SIBERIA (802.11g)**

Transmit at Lowest channel Frequency 2412MHz			
Frequency (MHz)	Level (dBμV/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			
Transmit at Middle channel Frequency 2437MHz			
Frequency (MHz)	Level (dBμV/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			
Transmit at Highest channel Frequency 2462MHz			
Frequency (MHz)	Level (dBμV/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			

**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)**
Lowest Channel (2412MHz): 30MHz – 1GHz**Note: This plot is valid for low, mid, high channels**

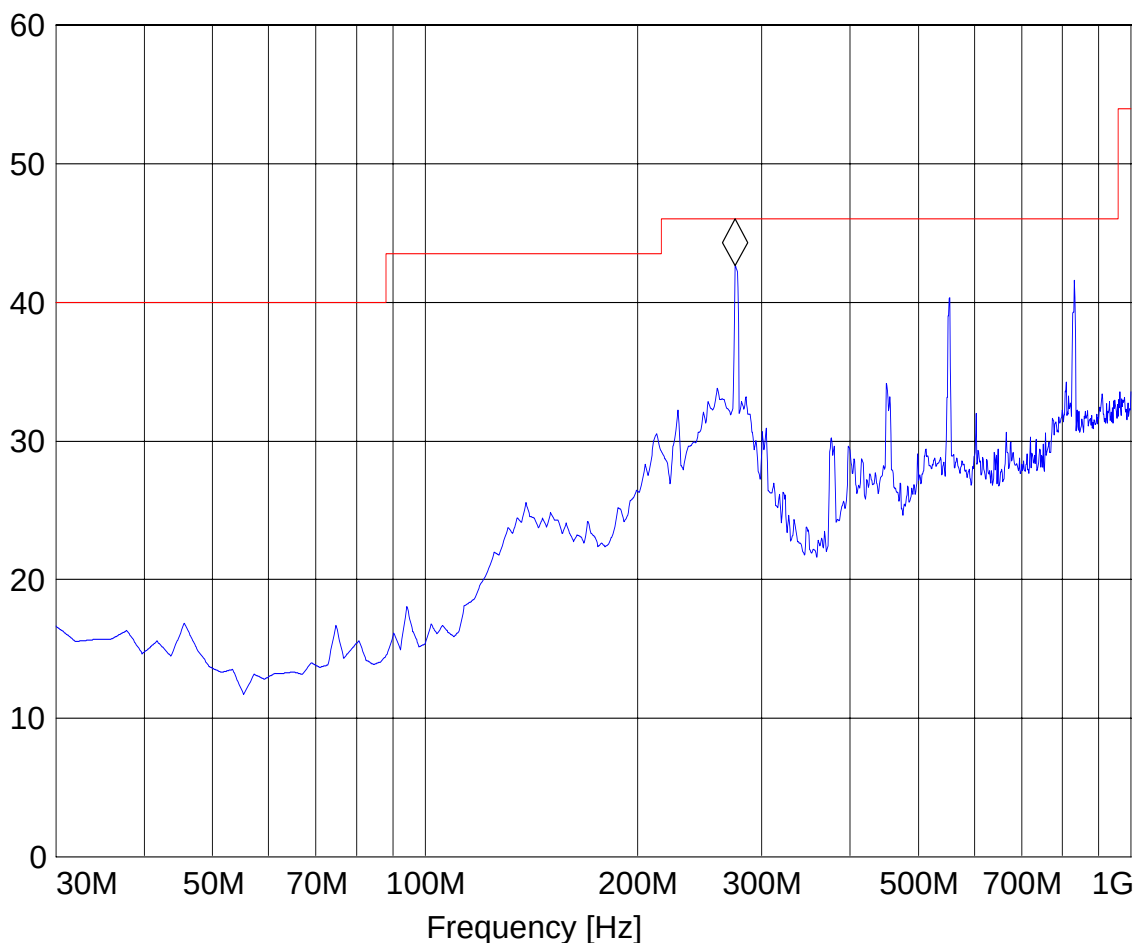
EUT: Dell Siberia
Customer: Broadcom
Test Mode: 802.11g, Ch. 1, Aux
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247_30M-1G_Ver"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Vert

Marker: 274.92986 MHz 42.64 dBμV/m

Level [dBμV/m]

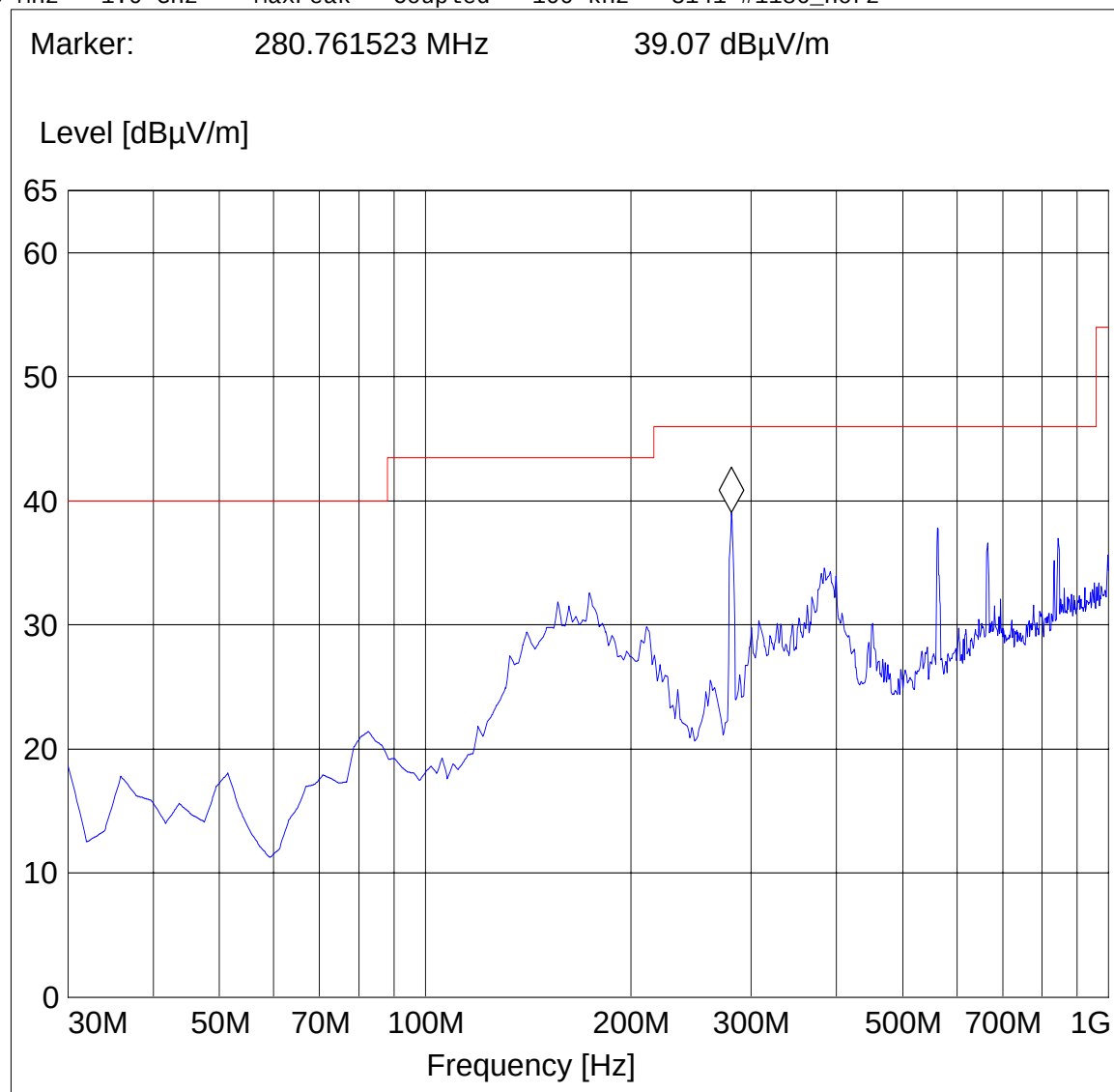


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)**
Lowest Channel (2412MHz): 30MHz – 1GHz**Note: This plot is valid for low, mid, high channels**

EUT: Dell Siberia
Customer: Broadcom
Test Mode: 802.11g, ch 1, Aux
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247_30M-1G_Hor"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Horz



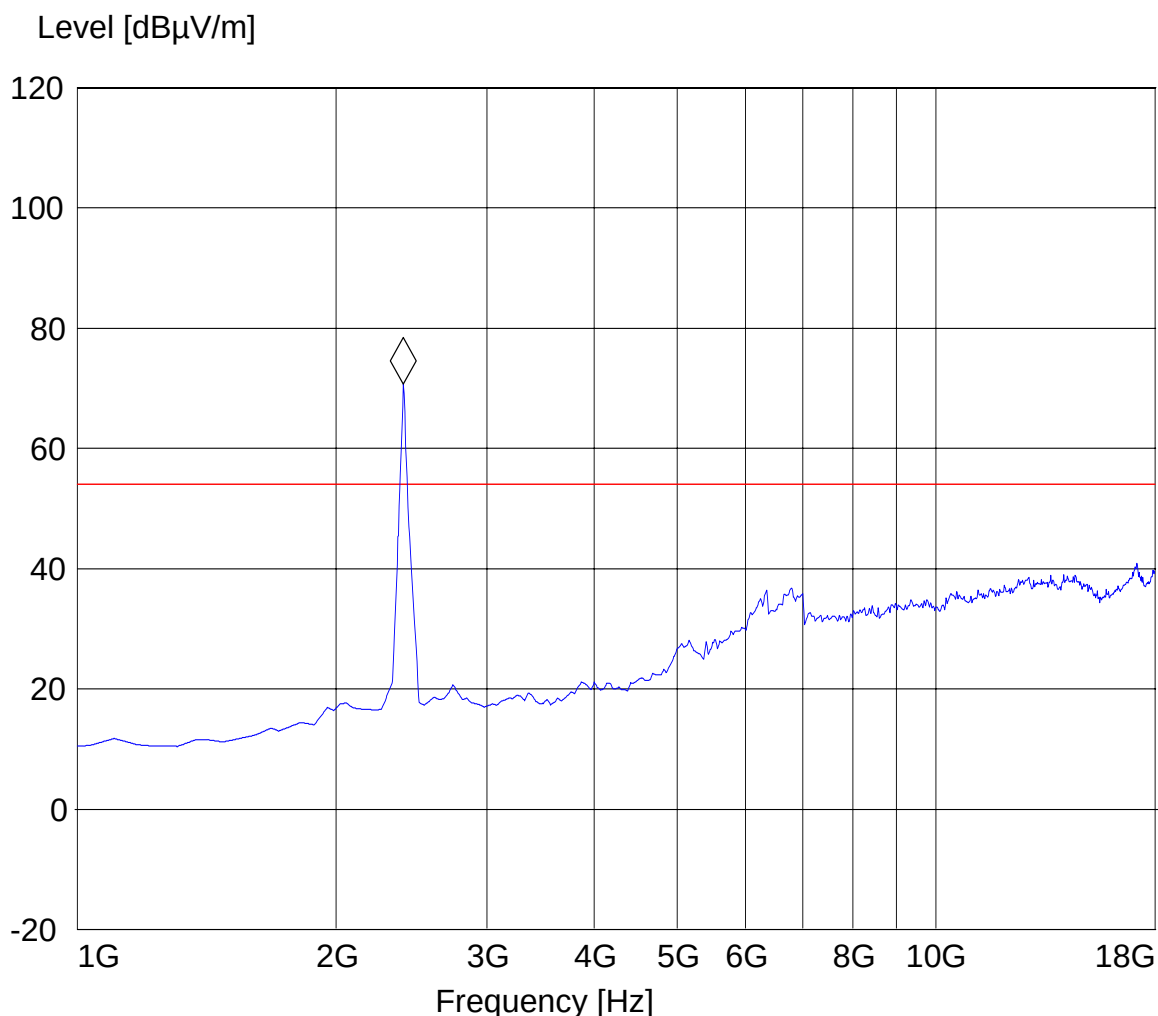
**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2412 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Siberia
Manufacturer: Broadcom
Test mode: 802.11 g ; ch 1; Auxiliary antenna
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Satya Radhakrishna
Voltage: AC Adapter

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

Marker: 2.396793587 GHz 70.73 dBμV/m



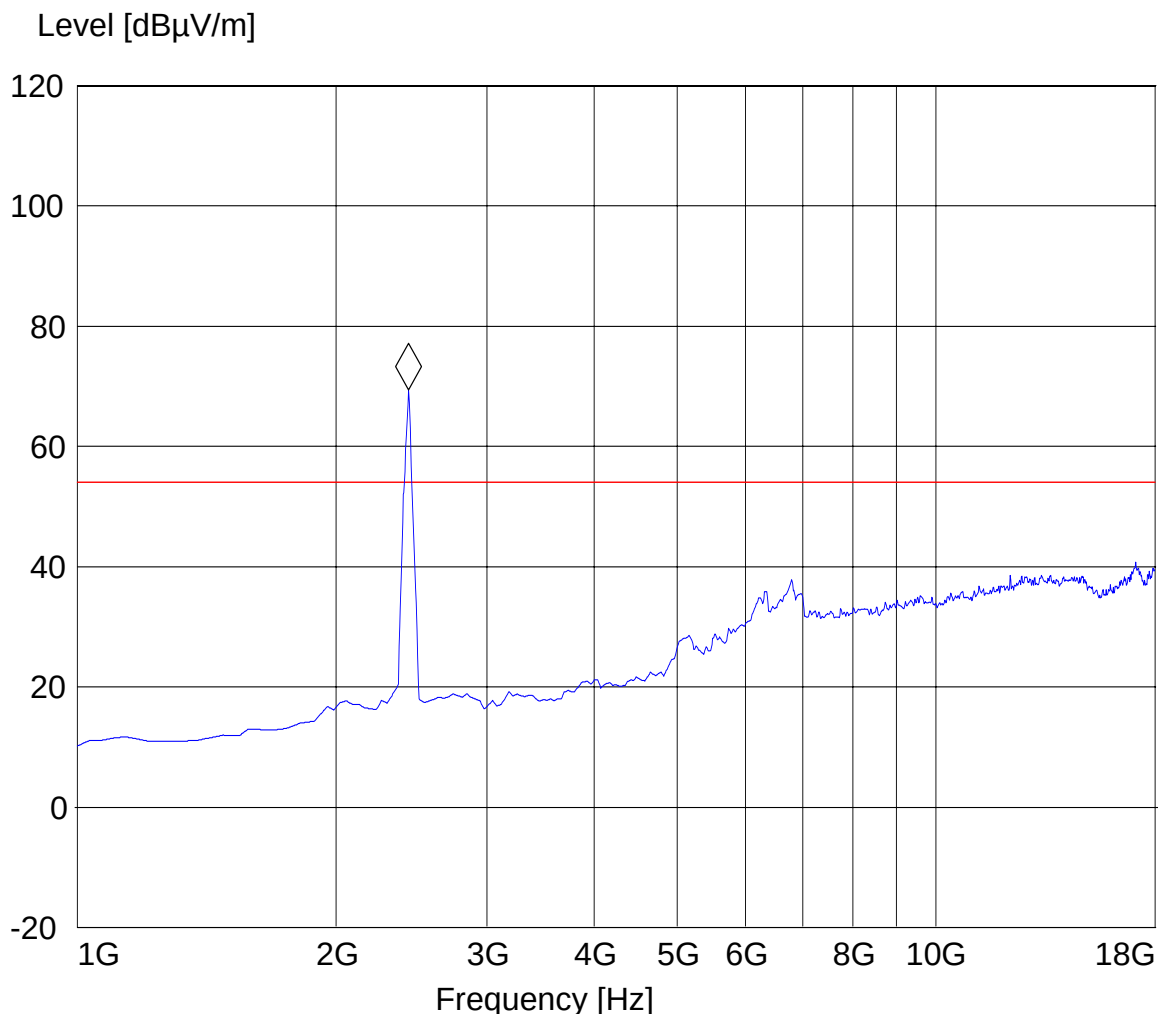
**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2437 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Siberia
Manufacturer: Broadcom
Test mode: 802.11 g ; ch 6 ; Auxiliary antenna
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Satya Radhakrishna
Voltage: AC Adapter

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

Marker: 2.430861723 GHz 69.44 dB μ V/m



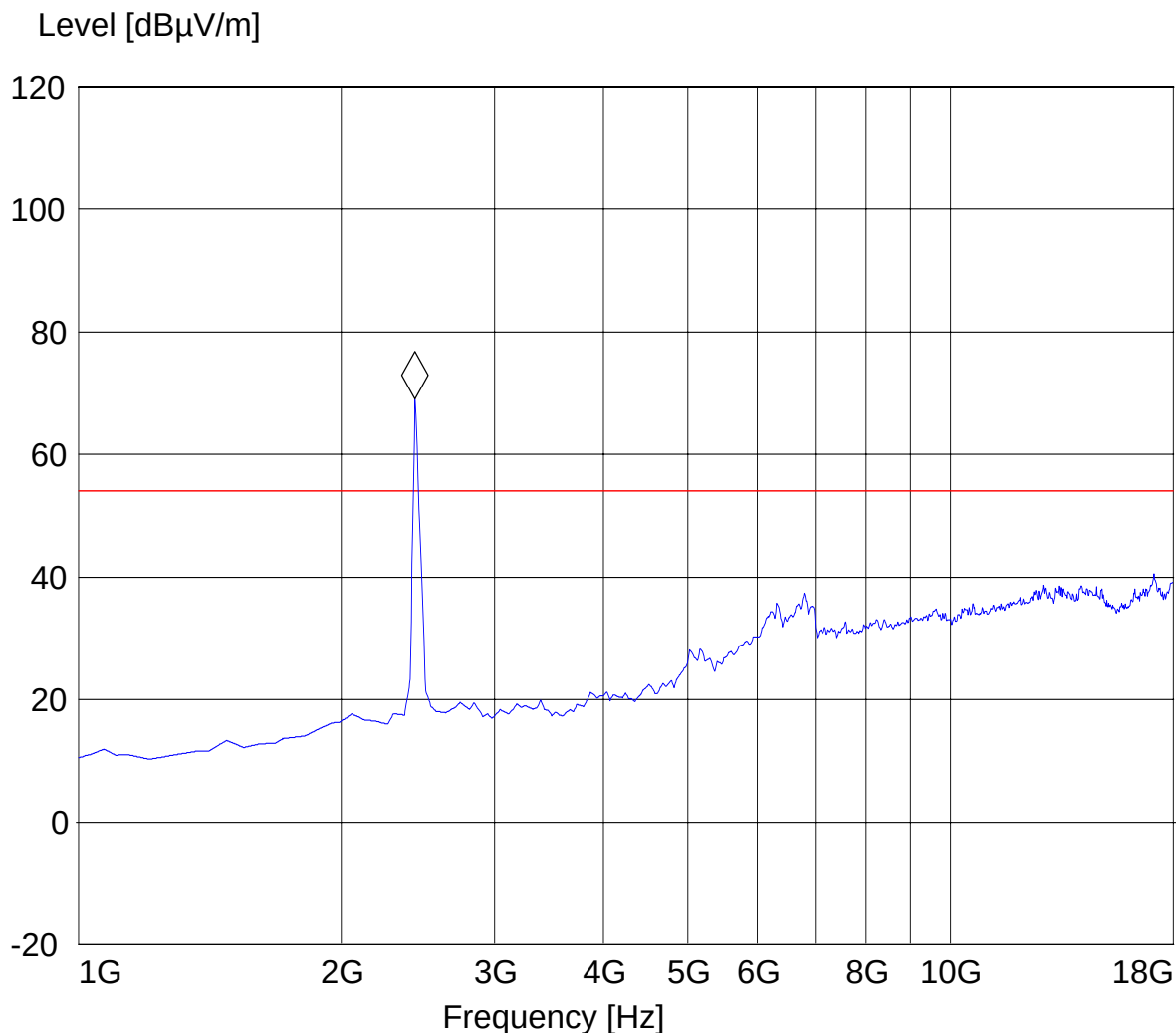
**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2462 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Siberia
Manufacturer: Broadcom
Test mode: 802.11 g ; ch 11; Auxiliary antenna
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan M.
Voltage: AC Power Supply

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

Marker: 2.430861723 GHz 69.05 dBµV/m



**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
18GHz – 26.5GHz for low, middle, and high channels****Note: This plot is valid for low, mid, high channels (worst-case plot)**

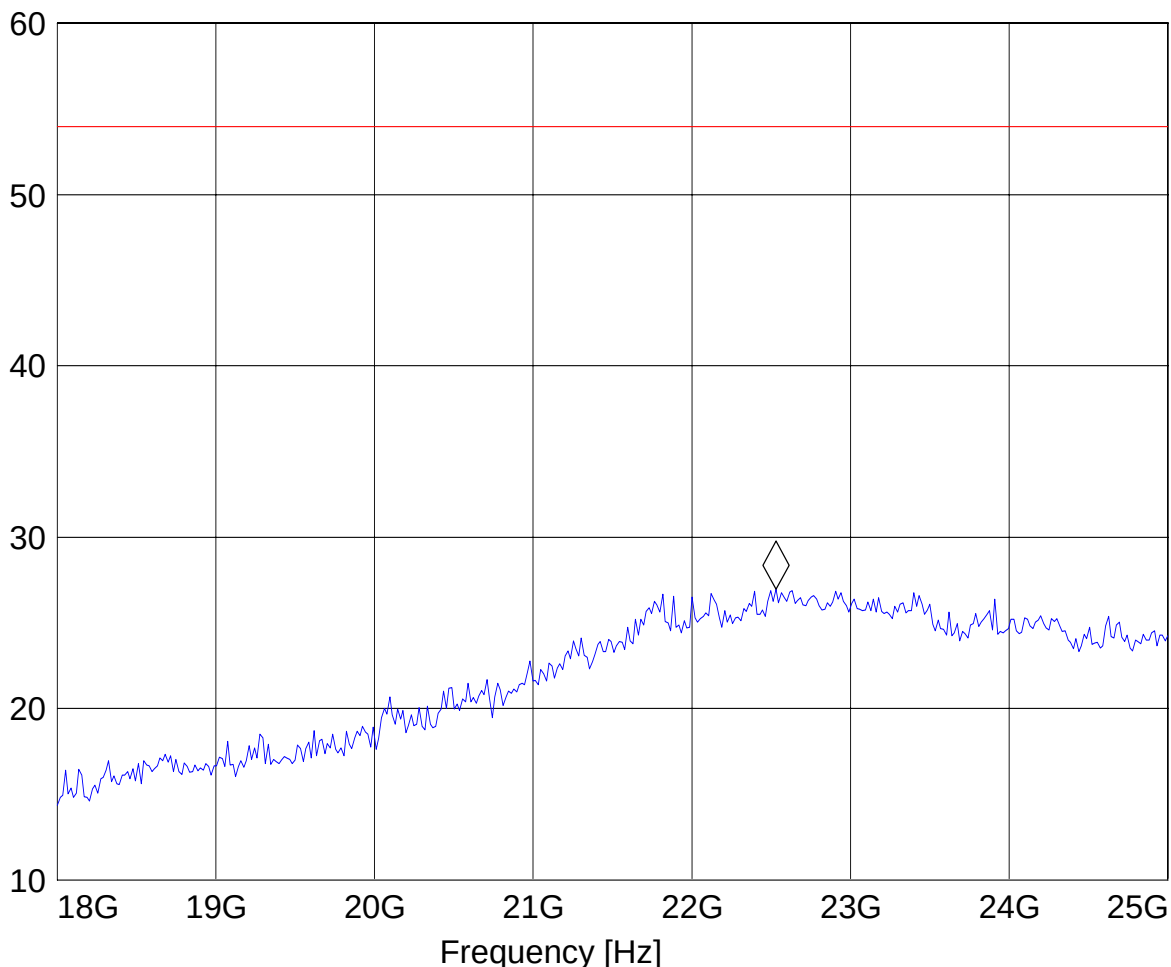
EUT: Siberia
Customer: Broadcom
Test Mode: 802.11g, Low, Middle, and high, Aux Antenna
ANT Orientation: V & H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247_18-26.5G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
18.0 GHz	26.5 GHz	MaxPeak	Coupled	1 MHz	#572 horn AF

Marker: 22.531062124 GHz 26.99 dBμV/m

Level [dBμV/m]



**PARKER (802.11b)**

Transmit at Lowest channel Frequency 2412MHz			
Frequency (MHz)	Level (dB μ V/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			
Transmit at Middle channel Frequency 2437MHz			
Frequency (MHz)	Level (dB μ V/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			
Transmit at Highest channel Frequency 2462MHz			
Frequency (MHz)	Level (dB μ V/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			

**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)**
Middle Channel (2437MHz): 30MHz – 1GHz

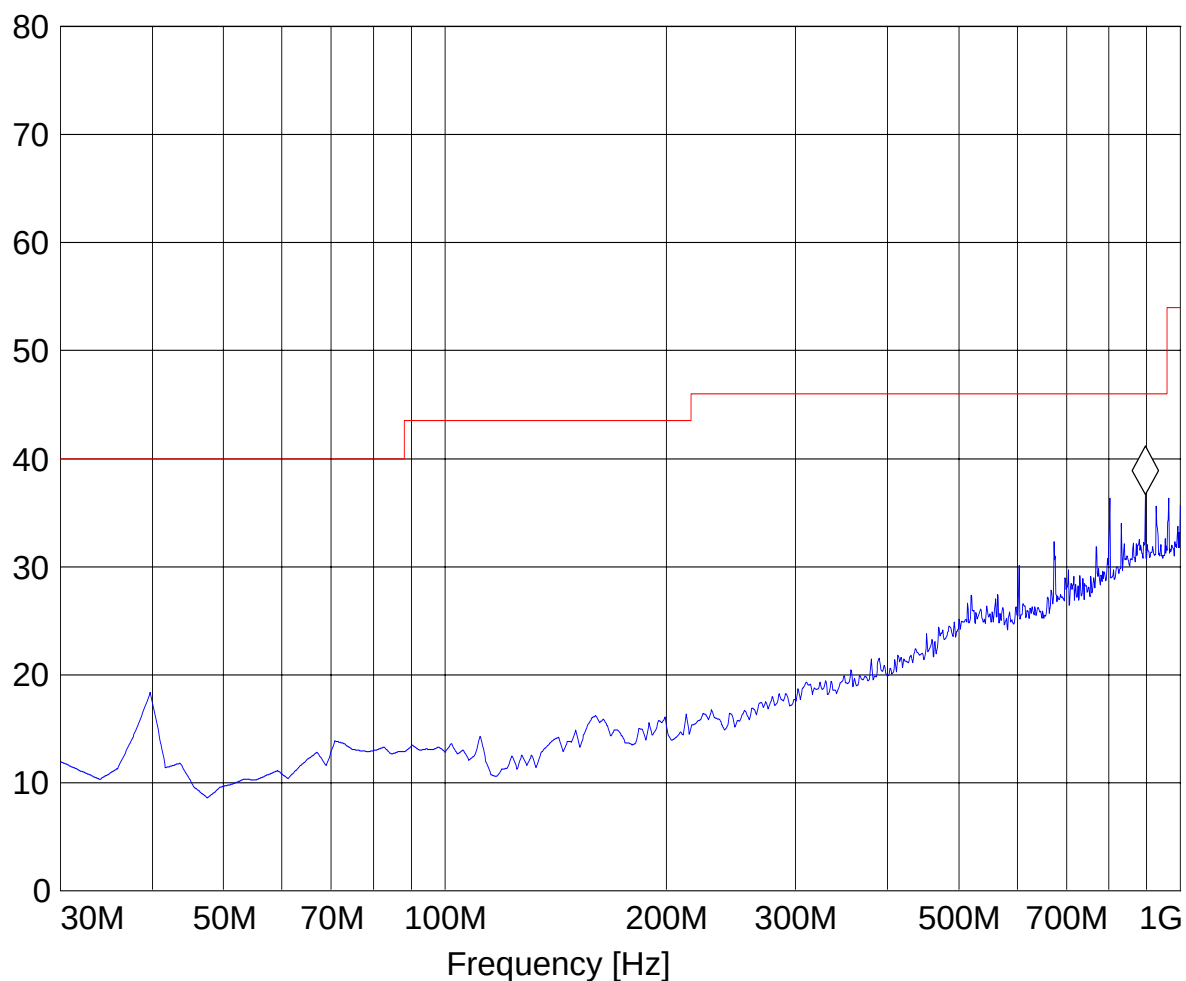
EUT: Parker
Customer: Broadcom
Test Mode: 802.11b, ch 6, Main
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247_30M-1G_Ver"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Vert

Marker: 896.973948 MHz 36.7 dB μ V/m

Level [dB μ V/m]

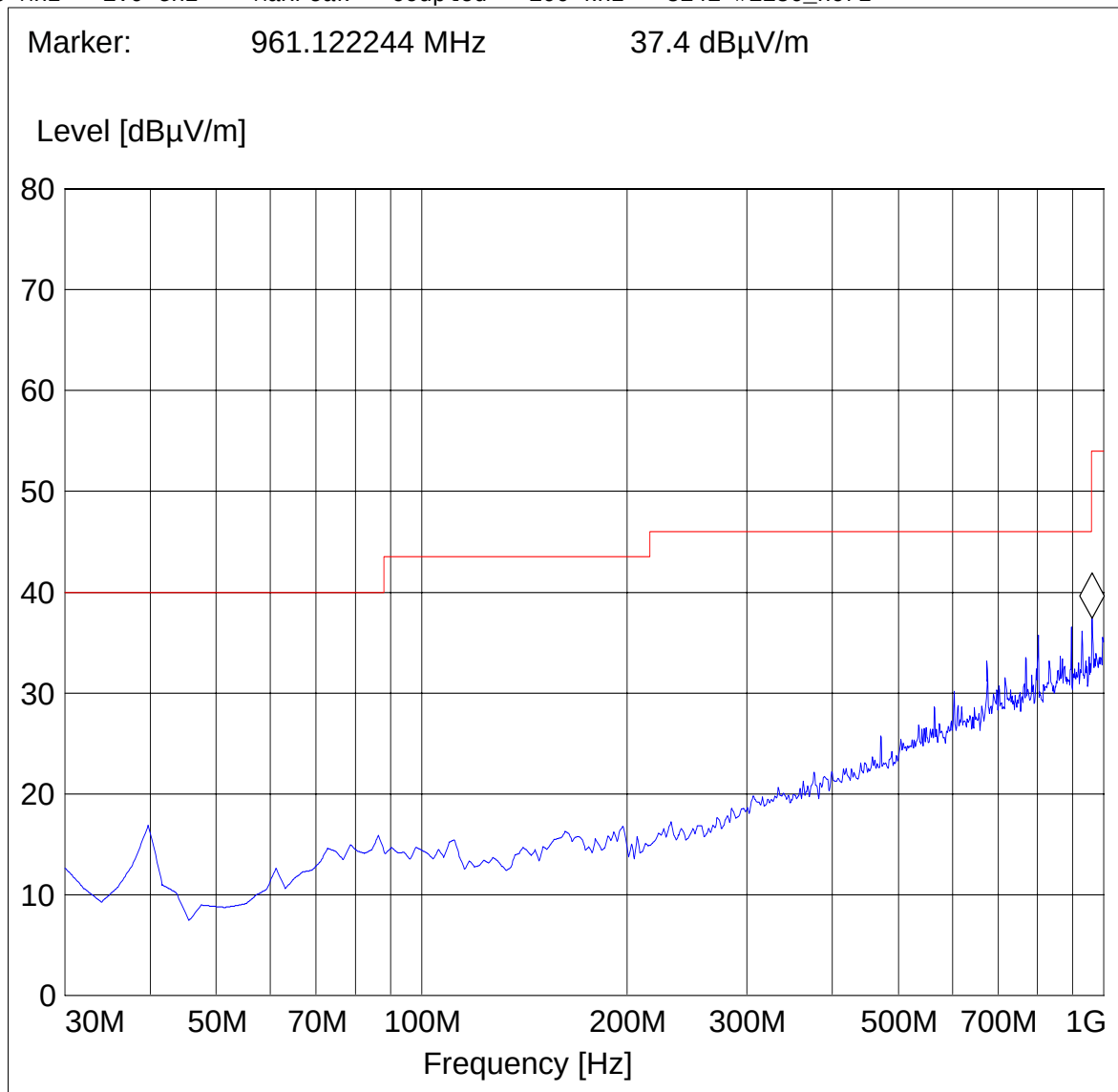


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
Middle Channel (2437MHz): 30MHz – 1GHz****Note: This plot is valid for low, mid, high channels**

EUT: Parker
Customer: Broadcom
Test Mode: 802.11b, ch 6, Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247_30M-1G_Hor"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Horz

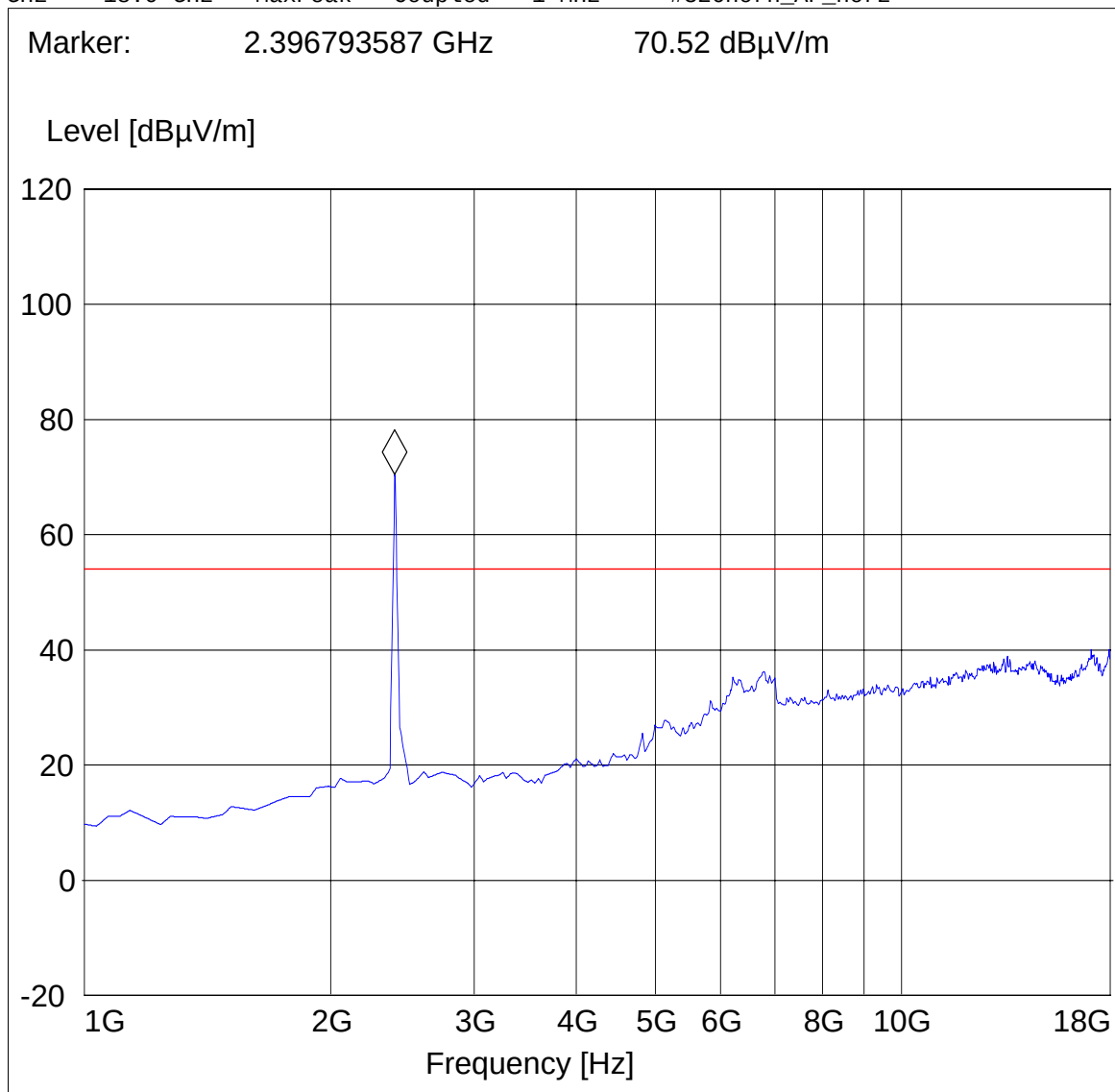


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2412 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Parker
Manufacturer: Broadcom
Test mode: 802.11b, ch 1, Main
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan
Voltage: AC Adapter

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

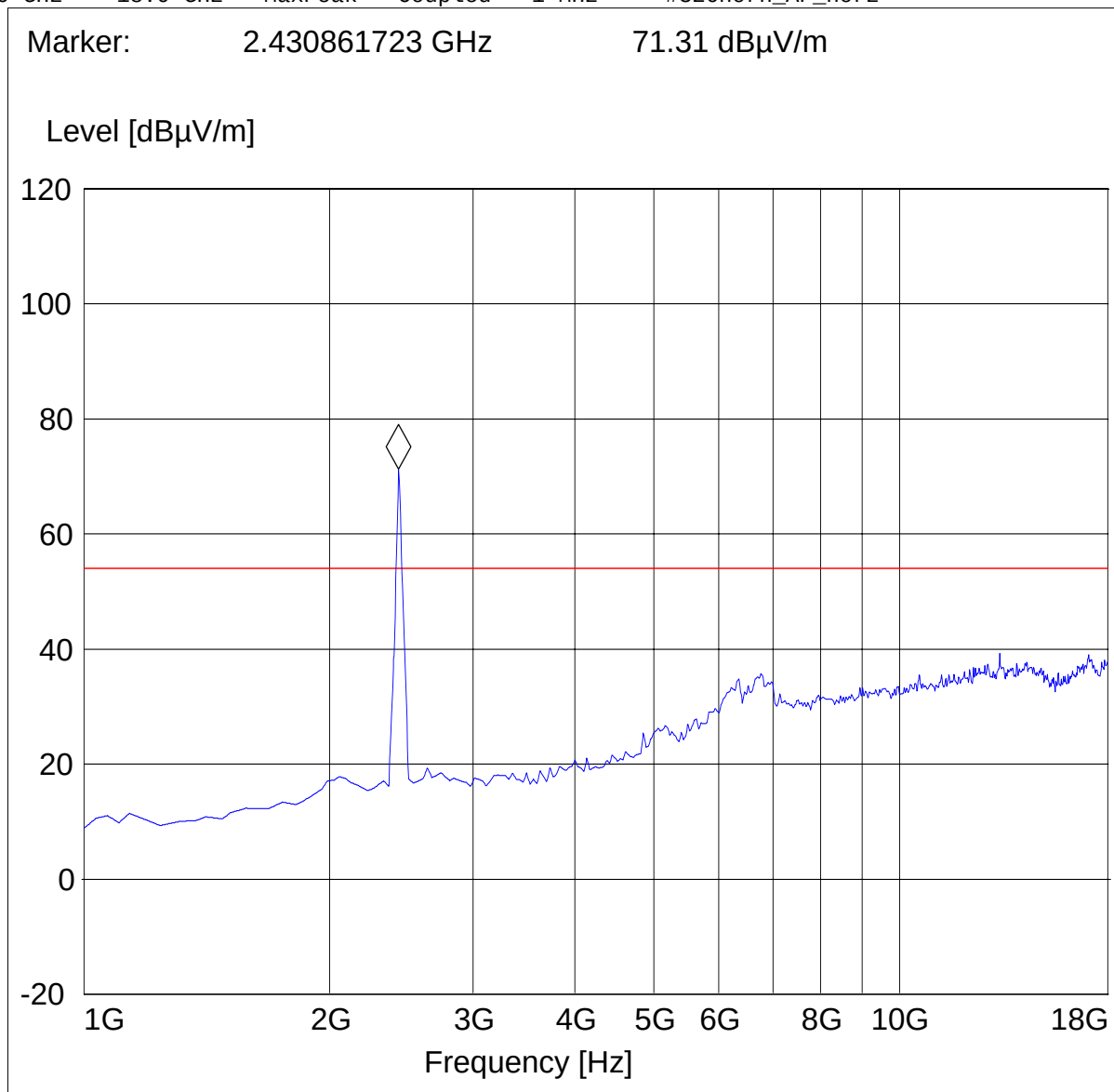


EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)**2437 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Parker
Manufacturer: Broadcom
Test mode: 802.11b, ch 6, Main
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan
Voltage: AC Adapter

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

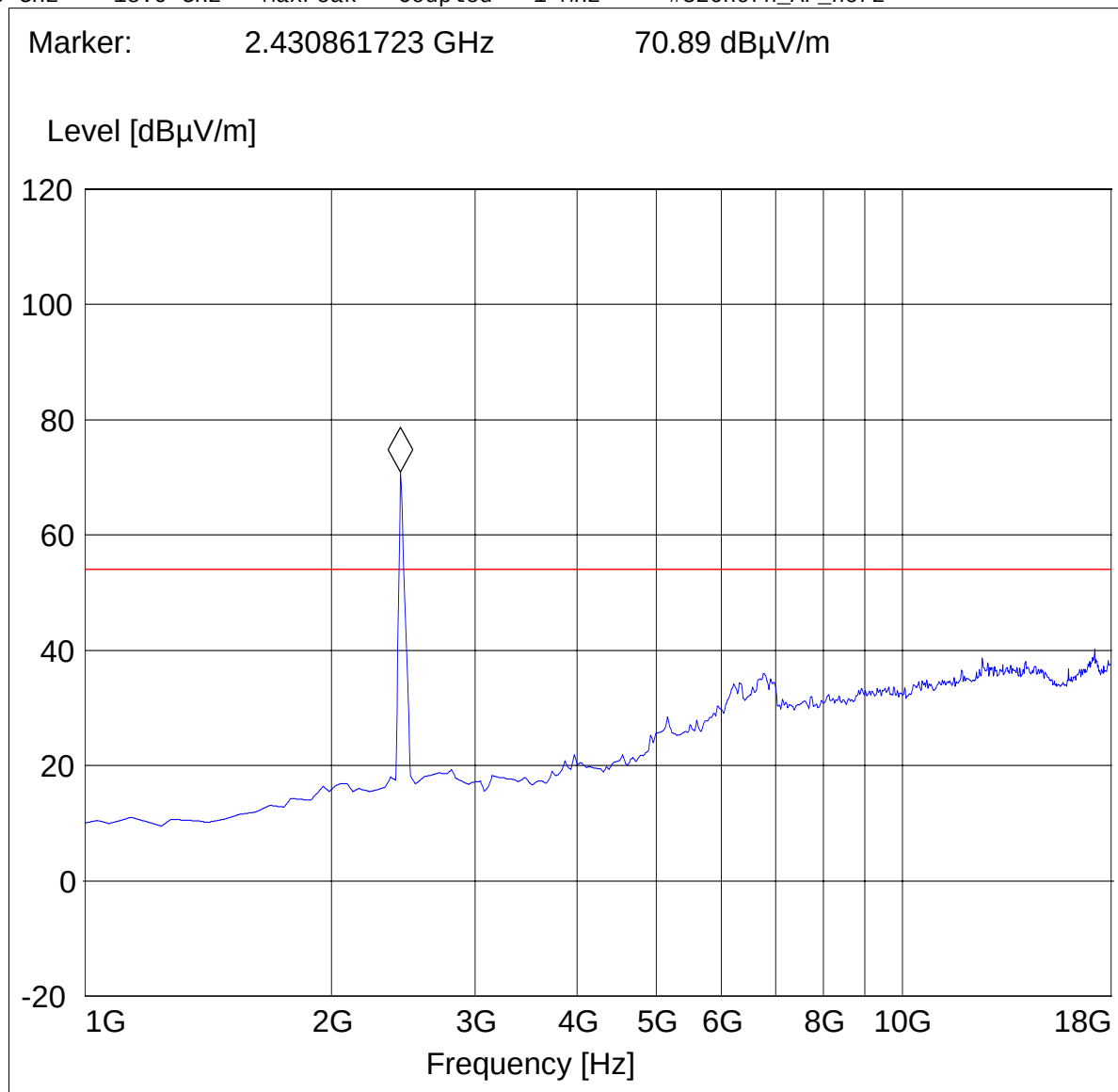


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2462 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Parker
Manufacturer: Broadcom
Test mode: 802.11b, ch 11, Main
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan
Voltage: AC Adapter

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

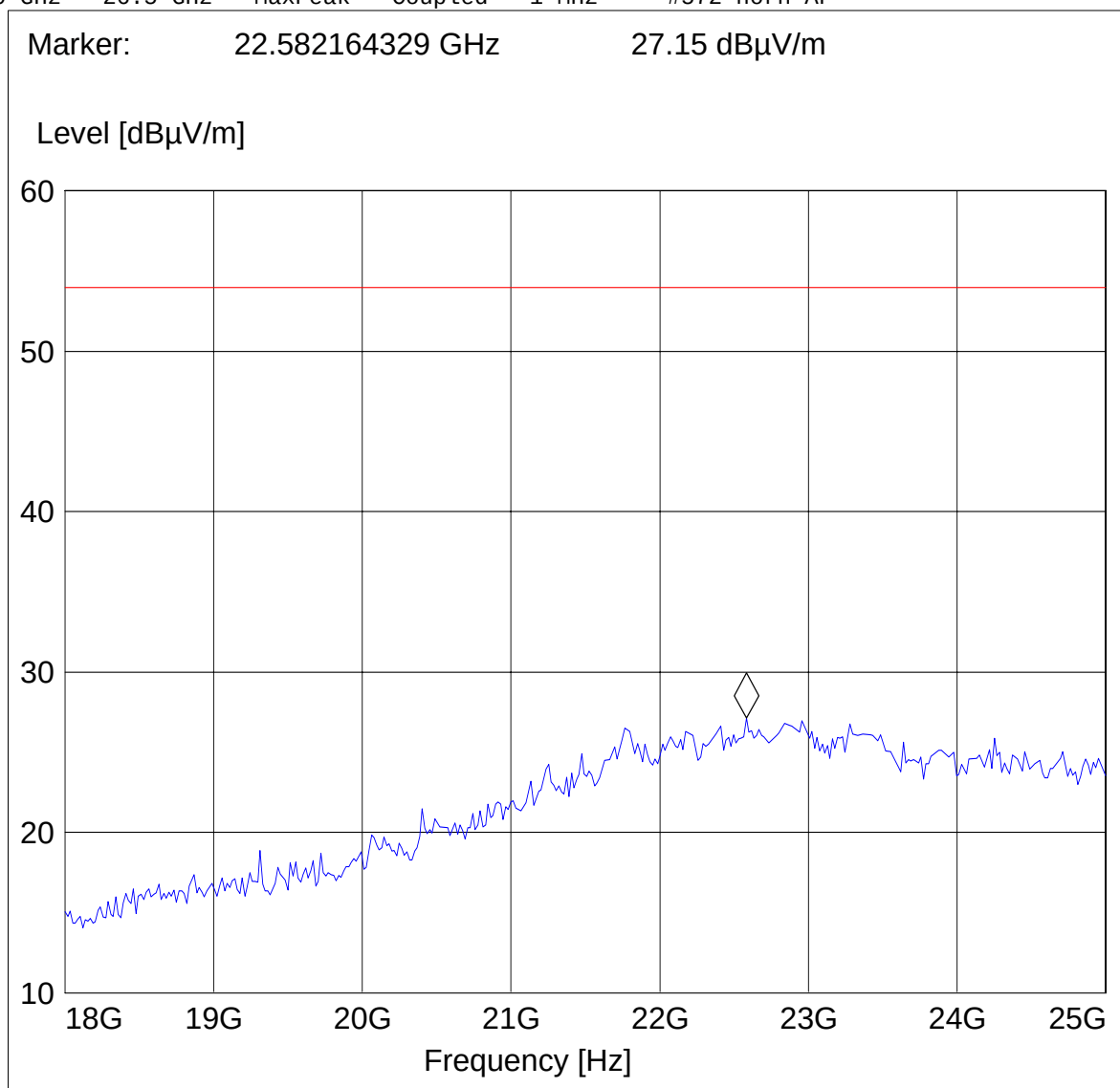


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
18GHz – 26.5GHz for low, middle, and high channels****Note: This plot is valid for low, mid, high channels (worst-case plot)**

EUT: Parker
Customer: Broadcom
Test Mode: 802.11b, low, middle, and high, Main
ANT Orientation: V & H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247_18-26.5G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
18.0 GHz	26.5 GHz	MaxPeak	Coupled	1 MHz	#572 horn AF



**PARKER (802.11g)**

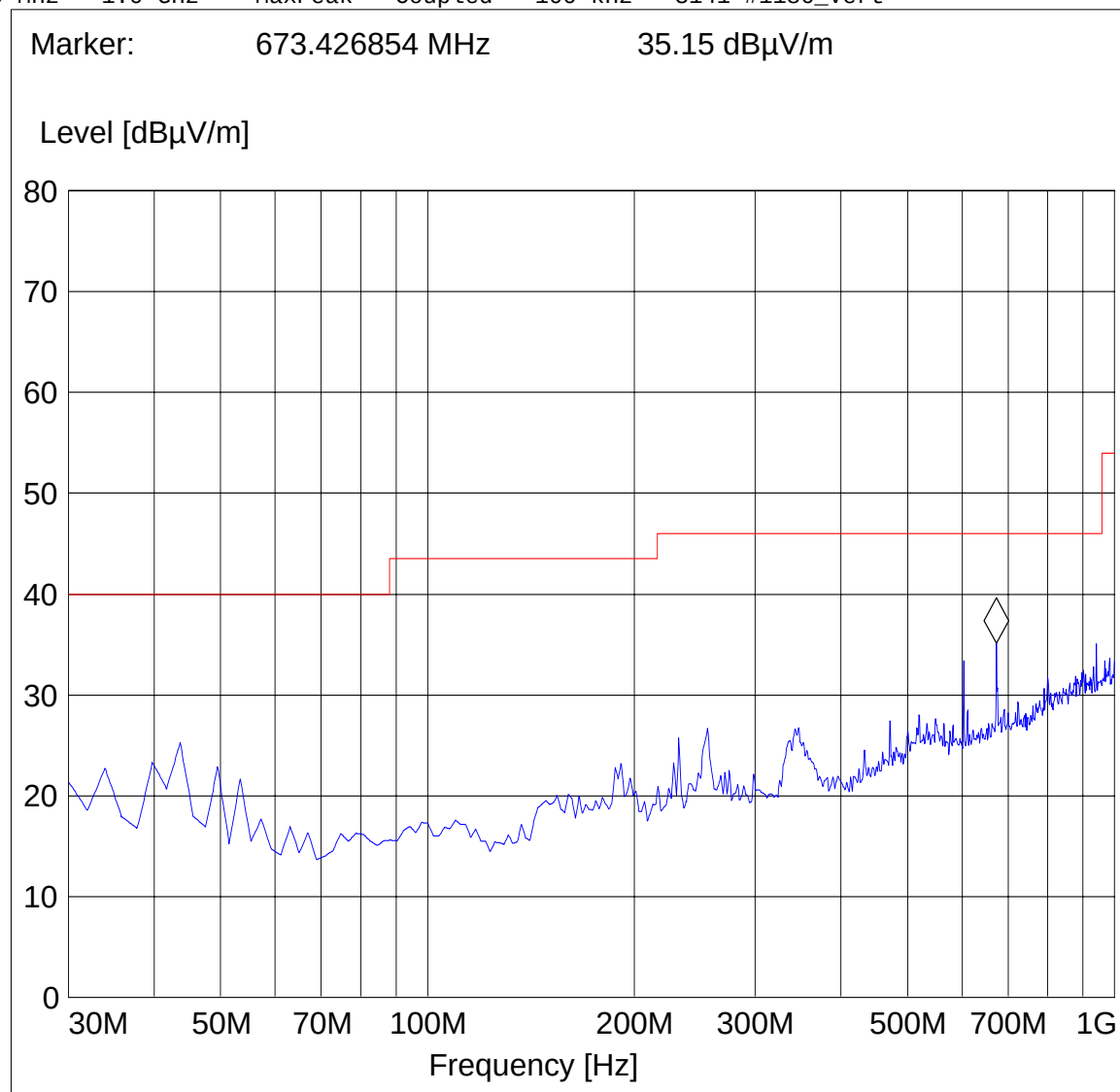
Transmit at Lowest channel Frequency 2412MHz			
Frequency (MHz)	Level (dBμV/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			
Transmit at Middle channel Frequency 2437MHz			
Frequency (MHz)	Level (dBμV/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			
Transmit at Highest channel Frequency 2462MHz			
Frequency (MHz)	Level (dBμV/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			

**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)**
Middle Channel (2437MHz): 30MHz – 1GHz**Note: This plot is valid for low, mid, high channels**

EUT: Parker
Customer: Broadcom
Test Mode: 802.11g, ch 6, Main
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247_30M-1G_Ver"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Vert

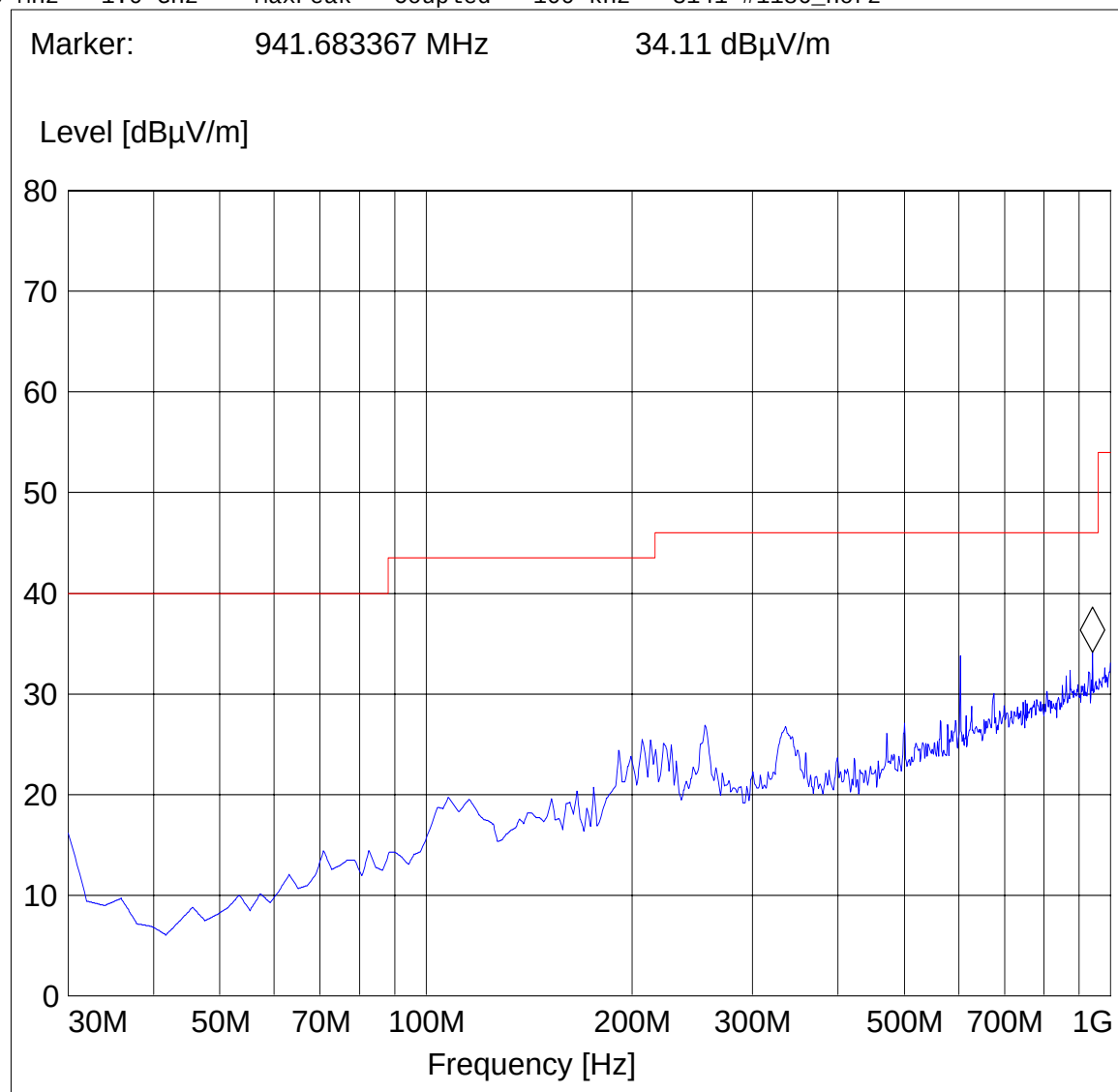


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
Middle Channel (2437MHz): 30MHz – 1GHz****Note: This plot is valid for low, mid, high channels**

EUT: Parker
Customer: Broadcom
Test Mode: 802.11g, ch 6, Main
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247_30M-1G_Hor"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Horz

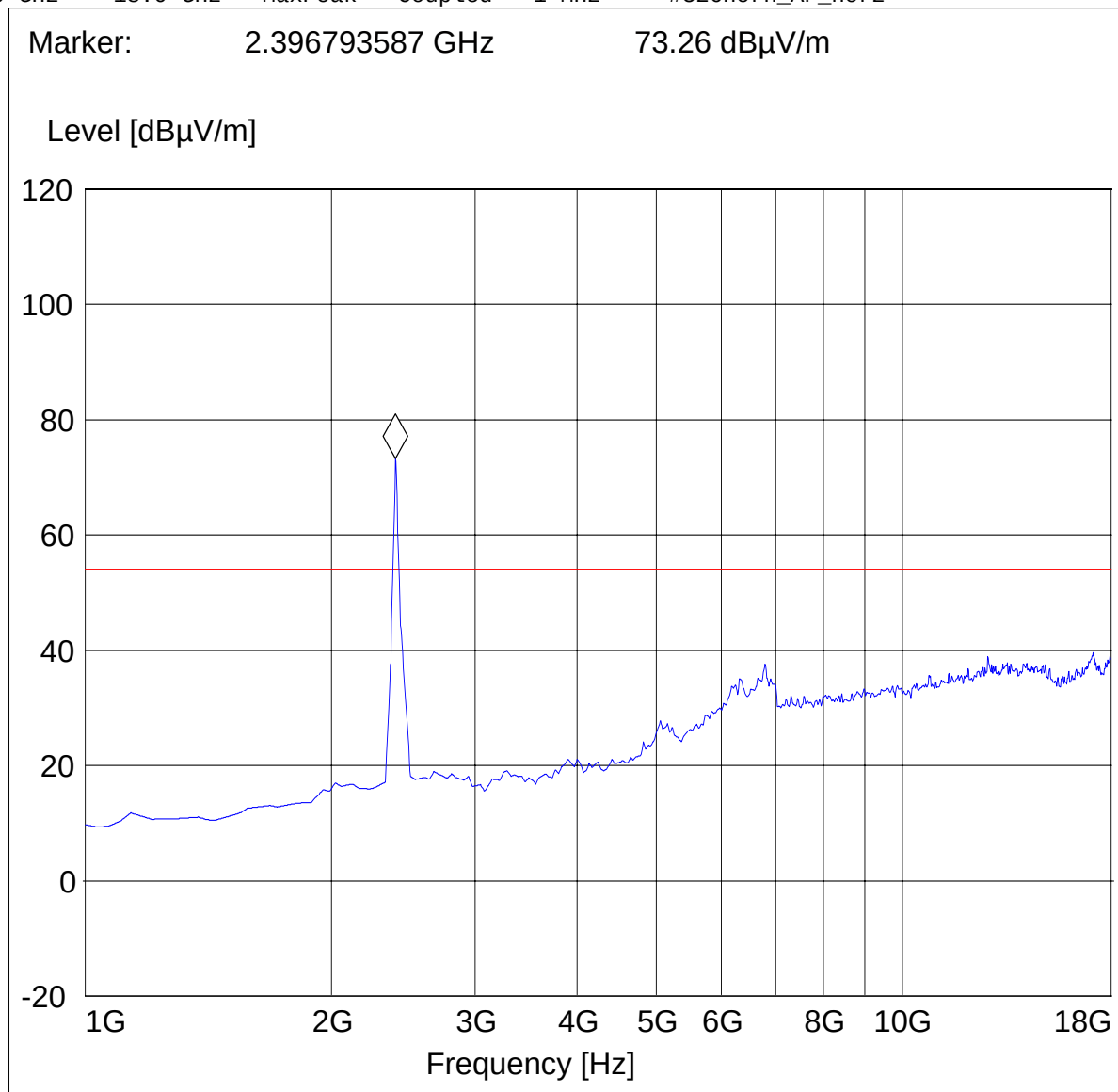


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2412 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Parker
Manufacturer: Broadcom
Test mode: 802.11g, ch 1, Main
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan
Voltage: AC Adapter

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

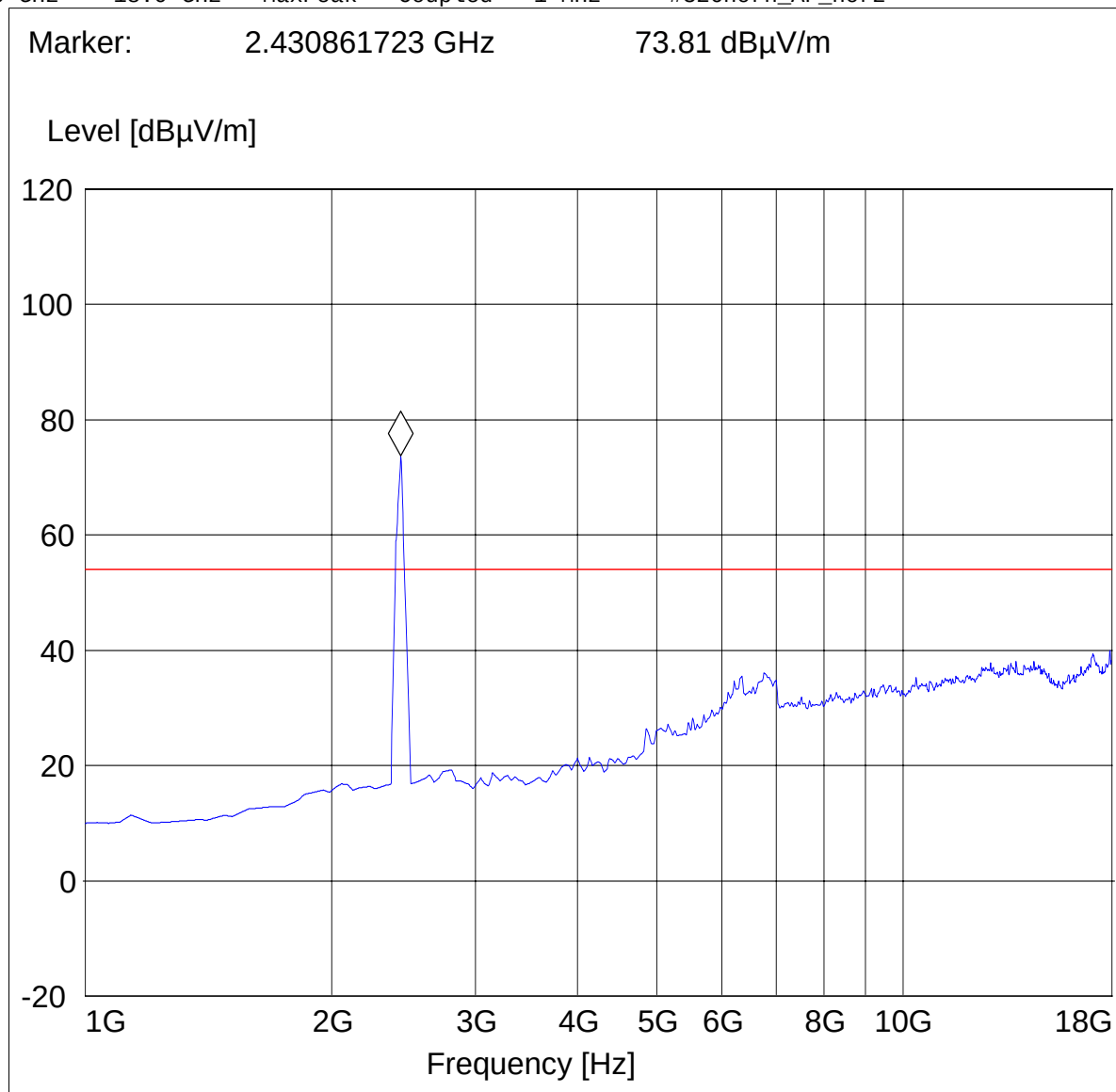


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2437 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Parker
Manufacturer: Broadcom
Test mode: 802.11g, ch 6, Main
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan
Voltage: AC Adapter

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

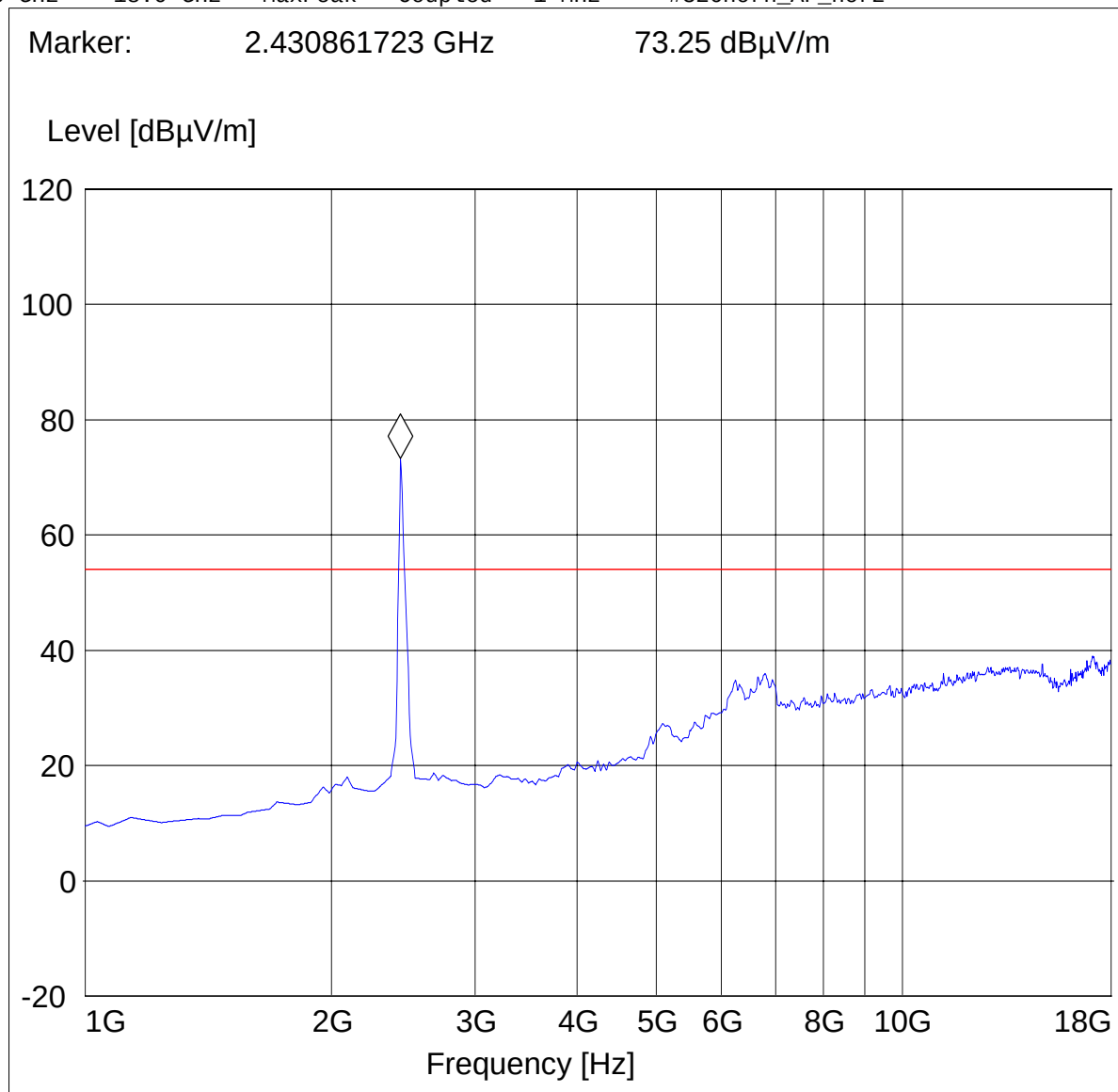


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2462 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Parker
Manufacturer: Broadcom
Test mode: 802.11g, ch 11, Main
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan
Voltage: AC Adapter

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz



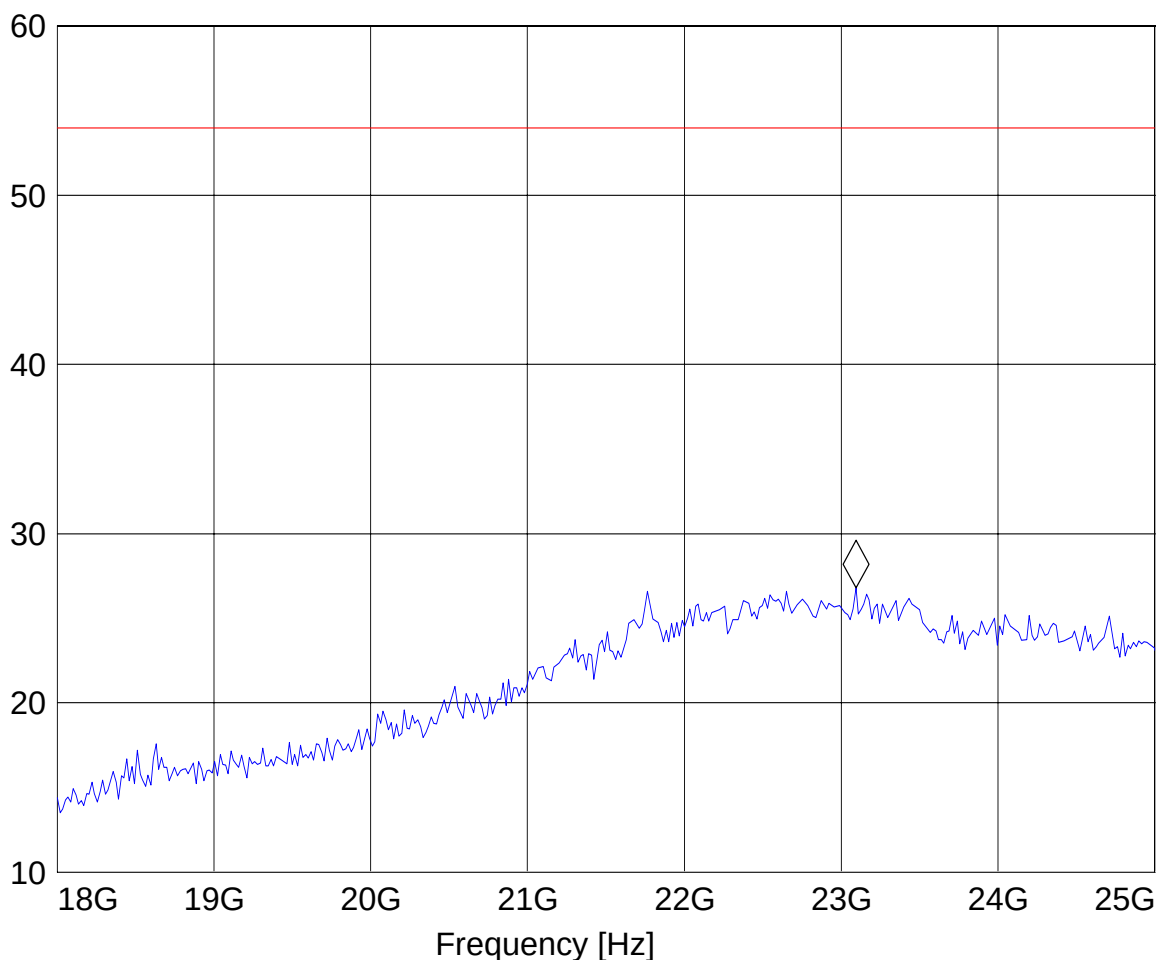
**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
18GHz – 26.5GHz for low, middle, and high channels****Note: This plot is valid for low, mid, high channels (worst-case plot)**

EUT: Parker
Customer: Broadcom
Test Mode: 802.11g, Low, Middle, and high, Main
ANT Orientation: V & H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adapter

SWEEP TABLE: "FCC15.247_18-26.5G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
18.0 GHz	26.5 GHz	MaxPeak	Coupled	1 MHz	#572 horn AF

Marker: 23.093186373 GHz 26.82 dB μ V/m

Level [dB μ V/m]

**SPEARS (802.11b)**

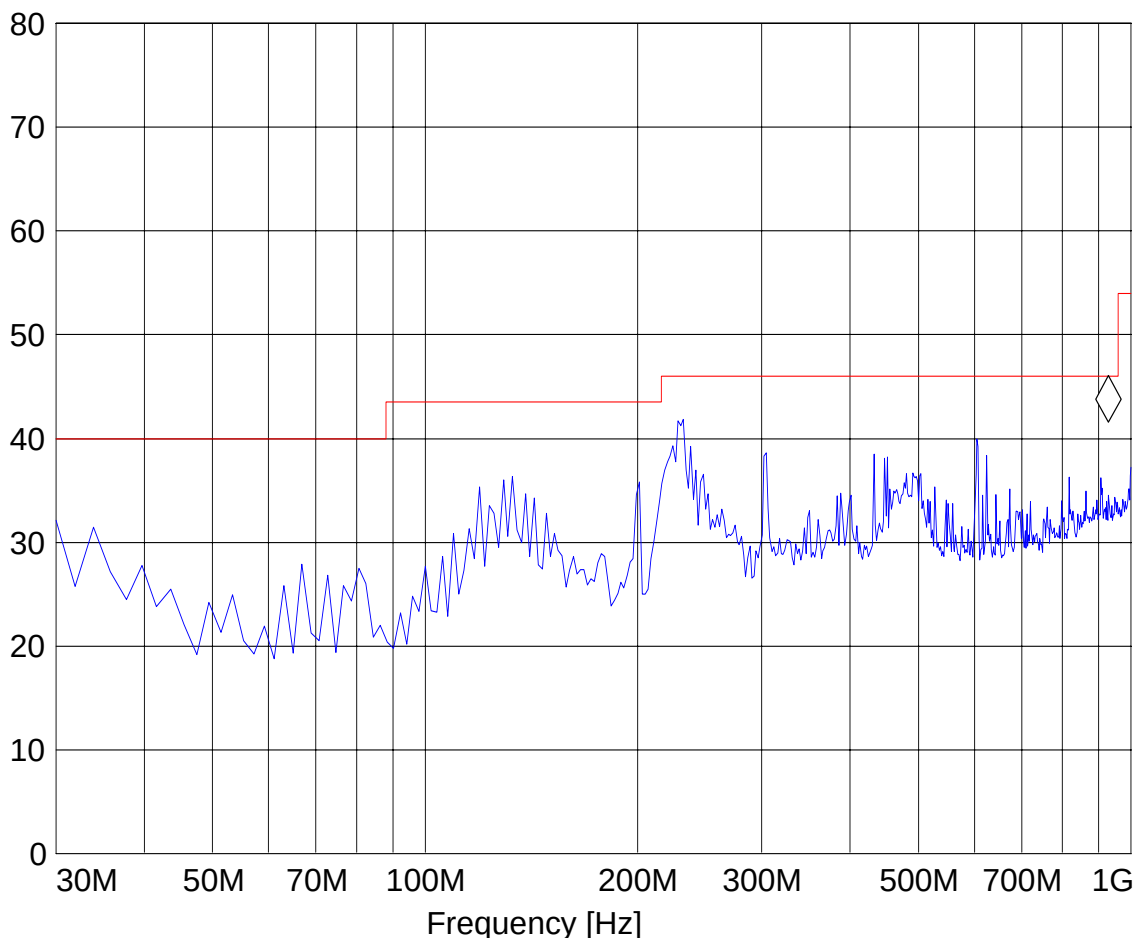
Transmit at Lowest channel Frequency 2412MHz			
Frequency (MHz)	Level (dB μ V/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			
Transmit at Middle channel Frequency 2437MHz			
Frequency (MHz)	Level (dB μ V/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			
Transmit at Highest channel Frequency 2462MHz			
Frequency (MHz)	Level (dB μ V/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			

**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)**
Highest Channel (2462MHz): 30MHz – 1GHz**Note: This plot is valid for low, mid, high channels**

EUT: Spears
Customer: Broadcom
Test Mode: 802.11b, Applicable to low middle and high ch., Aux Antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247_30M-1G_Ver"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Vert

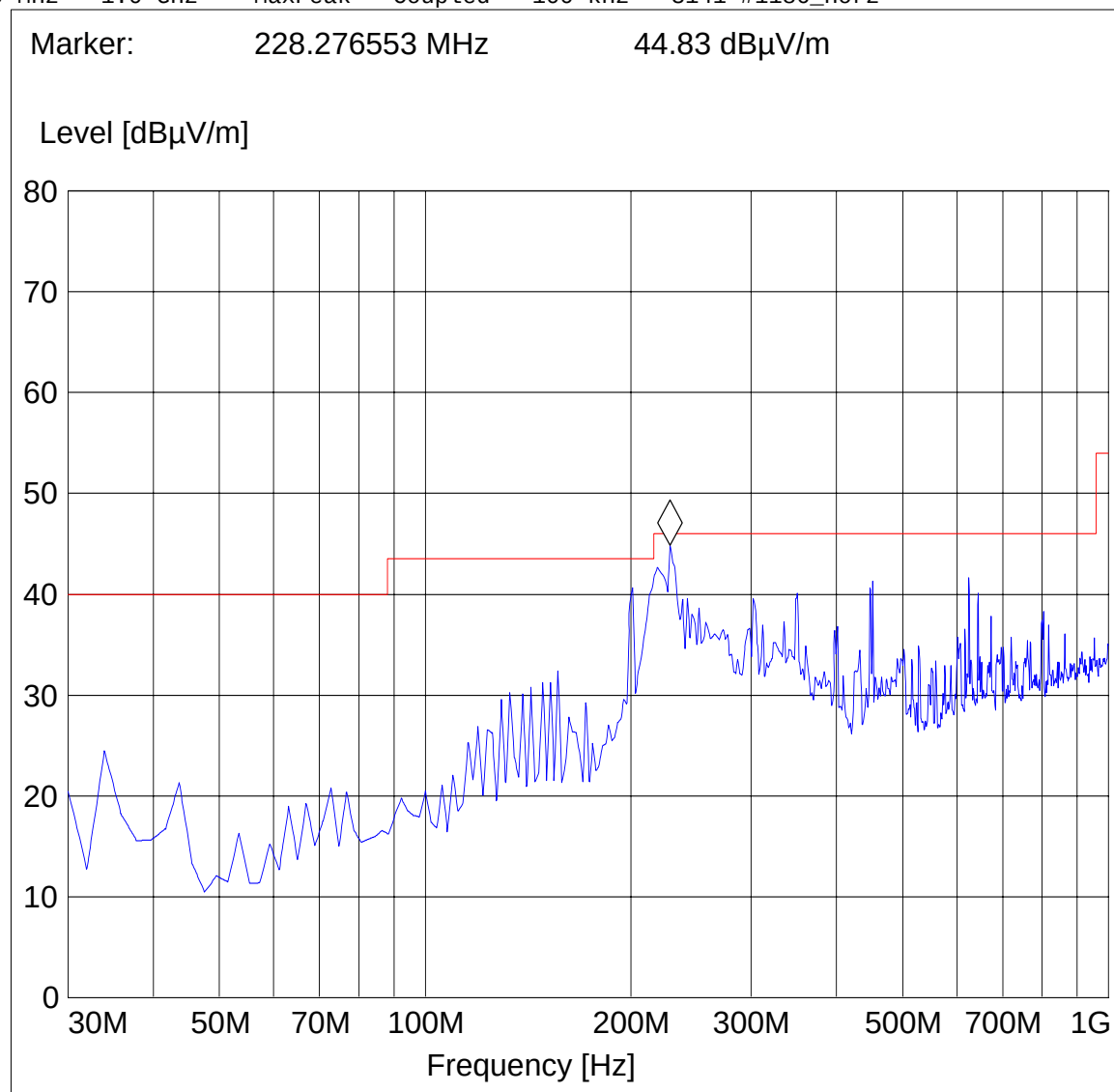
Marker: 930.02004 MHz 41.57 dB μ V/mLevel [dB μ V/m]

**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
Highest Channel (2462MHz): 30MHz – 1GHz****Note: This plot is valid for low, mid, high channels**

EUT: Spears
Customer: Broadcom
Test Mode: 802.11b, Applicable to low middle and high, Aux Antenna
ANT Orientation: H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247_30M-1G_Hor"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Horz

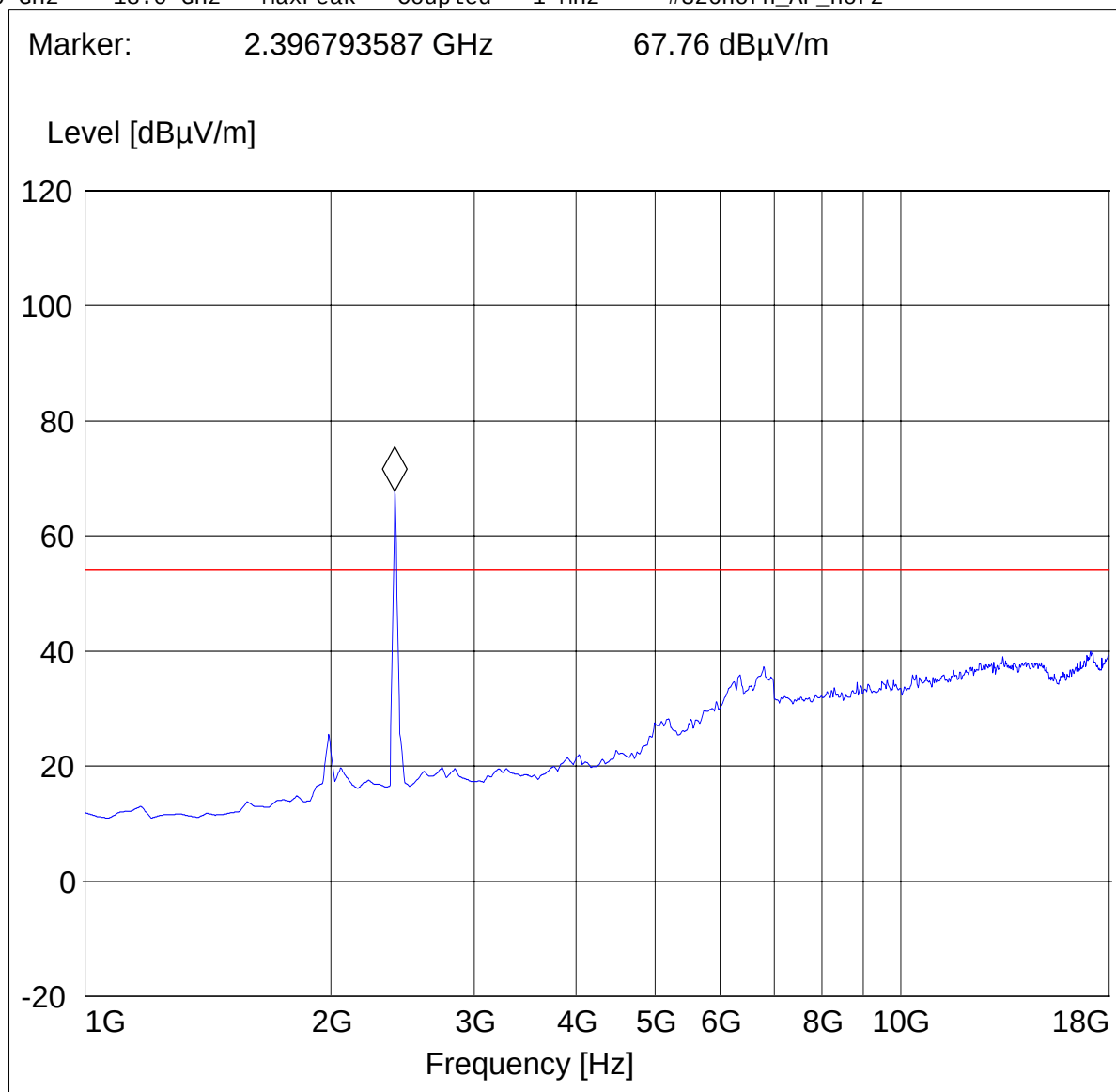


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2412 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Spears
Manufacturer: Broadcom
Test mode: 802.11b, ch. 1, Aux Antenna
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan
Voltage: AC ADAPTER

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

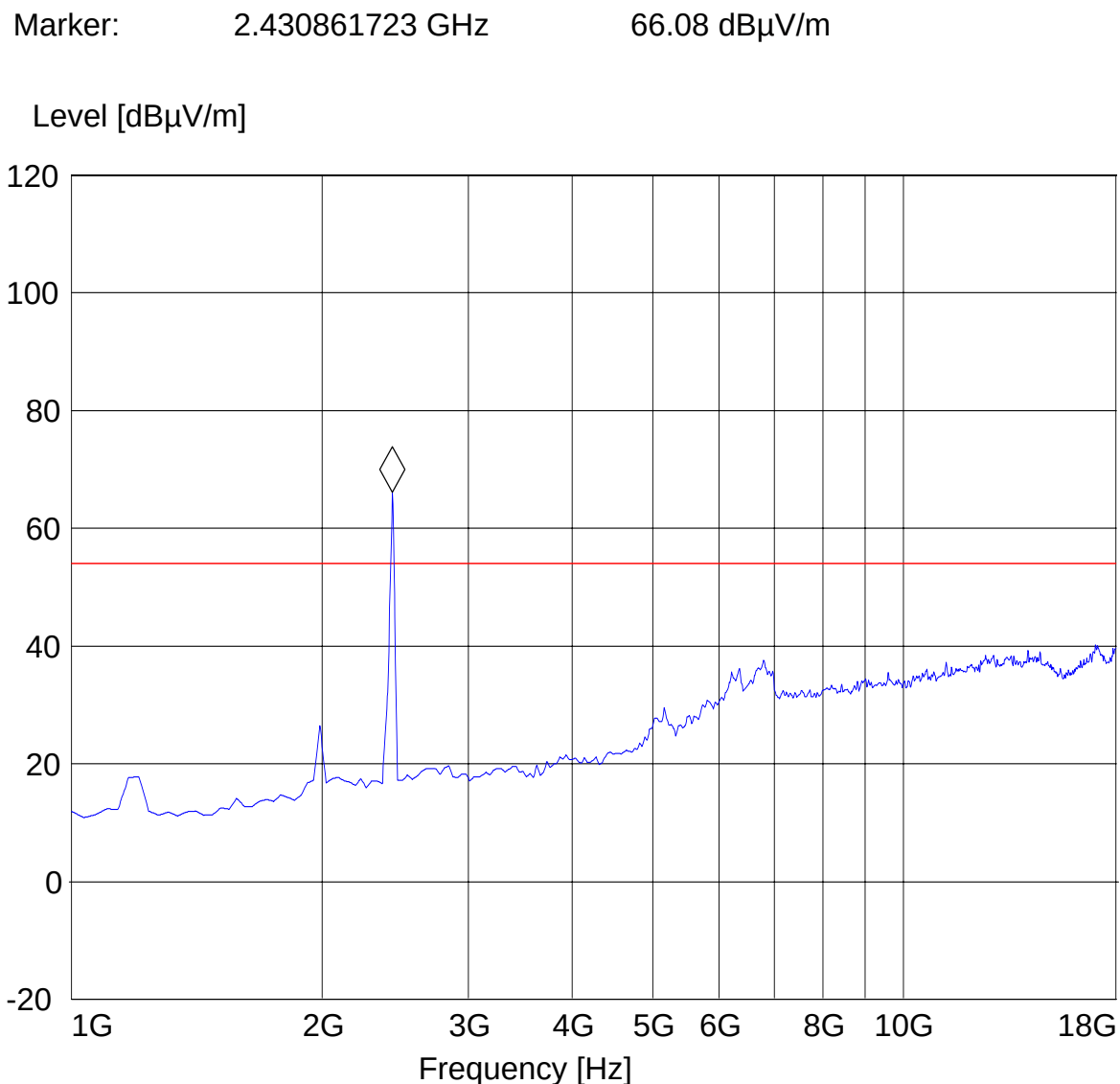


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2437 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Spears
Manufacturer: Broadcom
Test mode: 802.11b, ch. 6, Aux Antenna
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan
Voltage: AC ADAPTER

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz



**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2462 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

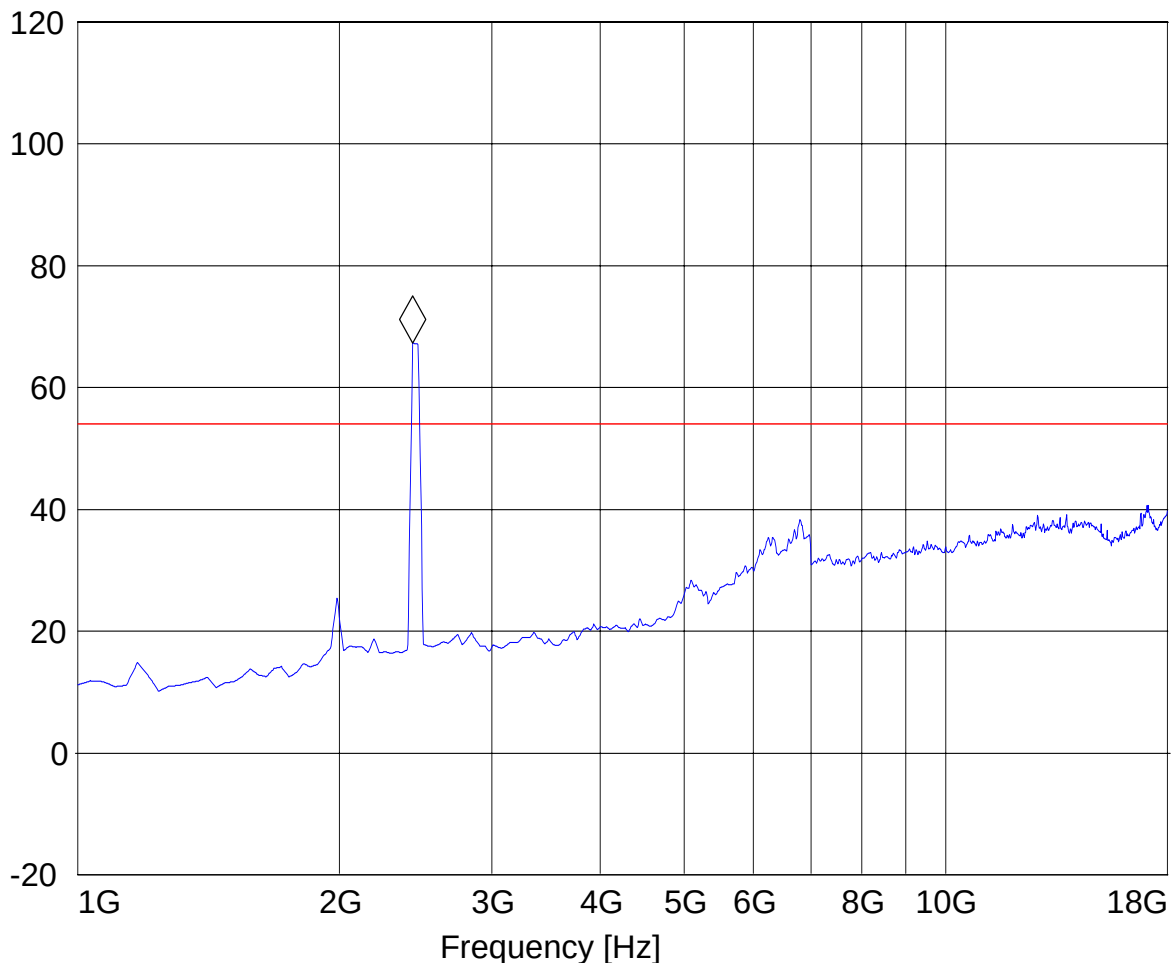
EUT / Description: Spears
Manufacturer: Broadcom
Test mode: 802.11b, ch. 11, Aux Antenna
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan
Voltage: AC ADAPTER

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

Marker: 2.430861723 GHz 67.29 dBμV/m

Level [dBμV/m]



**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
18GHz – 26.5GHz for low, middle, and high channels****Note: This plot is valid for low, mid, high channels (worst-case plot)**

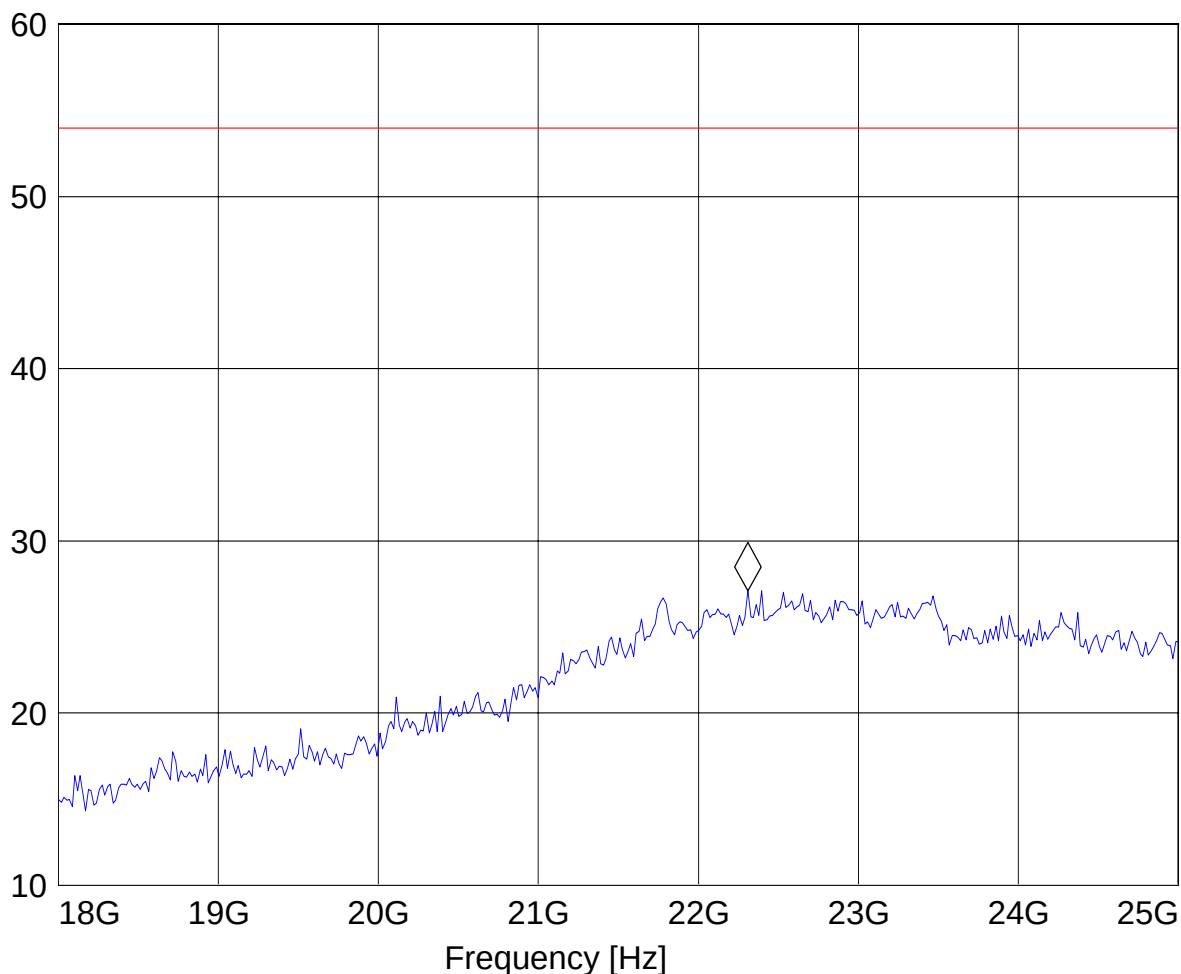
EUT: Spear
Customer: Broadcom
Test Mode: 802.11b, Applicable to low middle and high, Aux Antenna
ANT Orientation: V & H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247_18-26.5G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
18.0 GHz	26.5 GHz	MaxPeak	Coupled	1 MHz	#572 horn AF

Marker: 22.309619238 GHz 27.09 dBμV/m

Level [dBμV/m]



**SIBERIA (802.11g)**

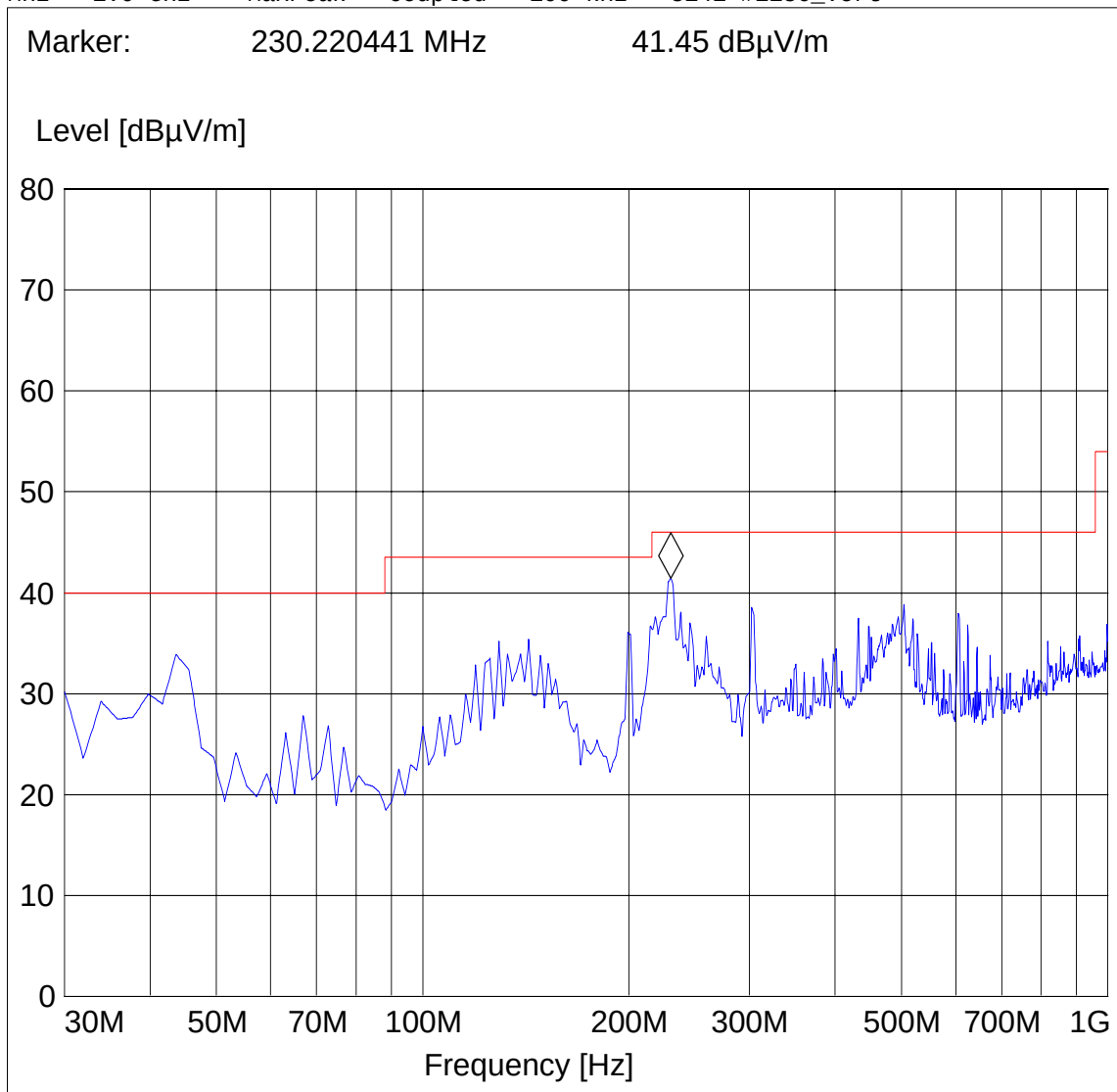
Transmit at Lowest channel Frequency 2412MHz			
Frequency (MHz)	Level (dBμV/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			
Transmit at Middle channel Frequency 2437MHz			
Frequency (MHz)	Level (dBμV/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			
Transmit at Highest channel Frequency 2462MHz			
Frequency (MHz)	Level (dBμV/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			

**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)**
Lowest Channel (2412MHz): 30MHz – 1GHz**Note: This plot is valid for low, mid, high channels**

EUT: Spears
Customer: Broadcom
Test Mode: 802.11g, CH.1, Aux Antenna
ANT Orientation: V
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247_30M-1G_Ver"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Vert

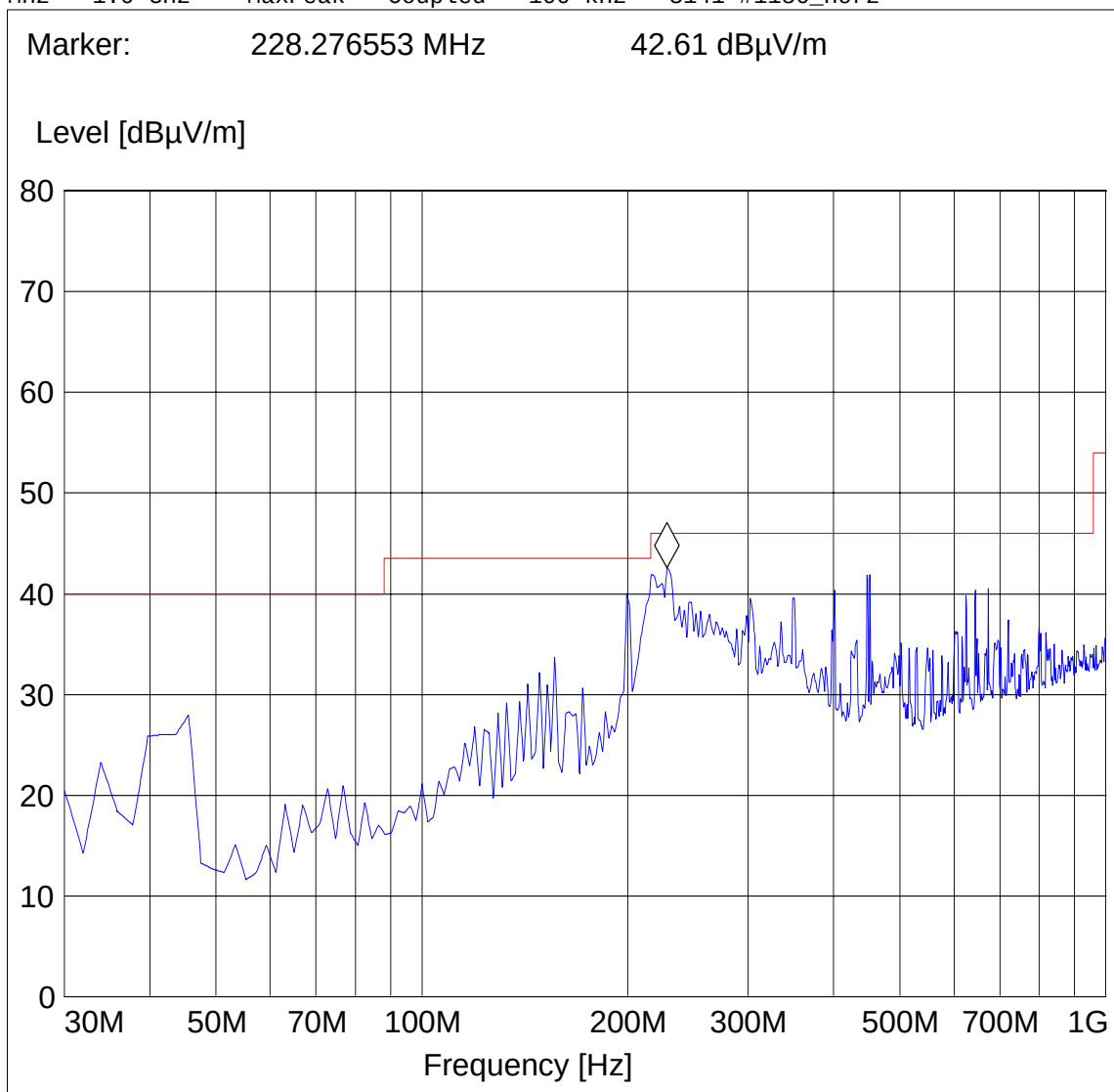


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)**
Lowest Channel (2412MHz): 30MHz – 1GHz**Note: This plot is valid for low, mid, high channels**

EUT: Spears
Customer: Broadcom
Test Mode: 802.11g, CH.1, Aux Antenna
ANT Orientation: V & H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247_30M-1G_Hor"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Horz

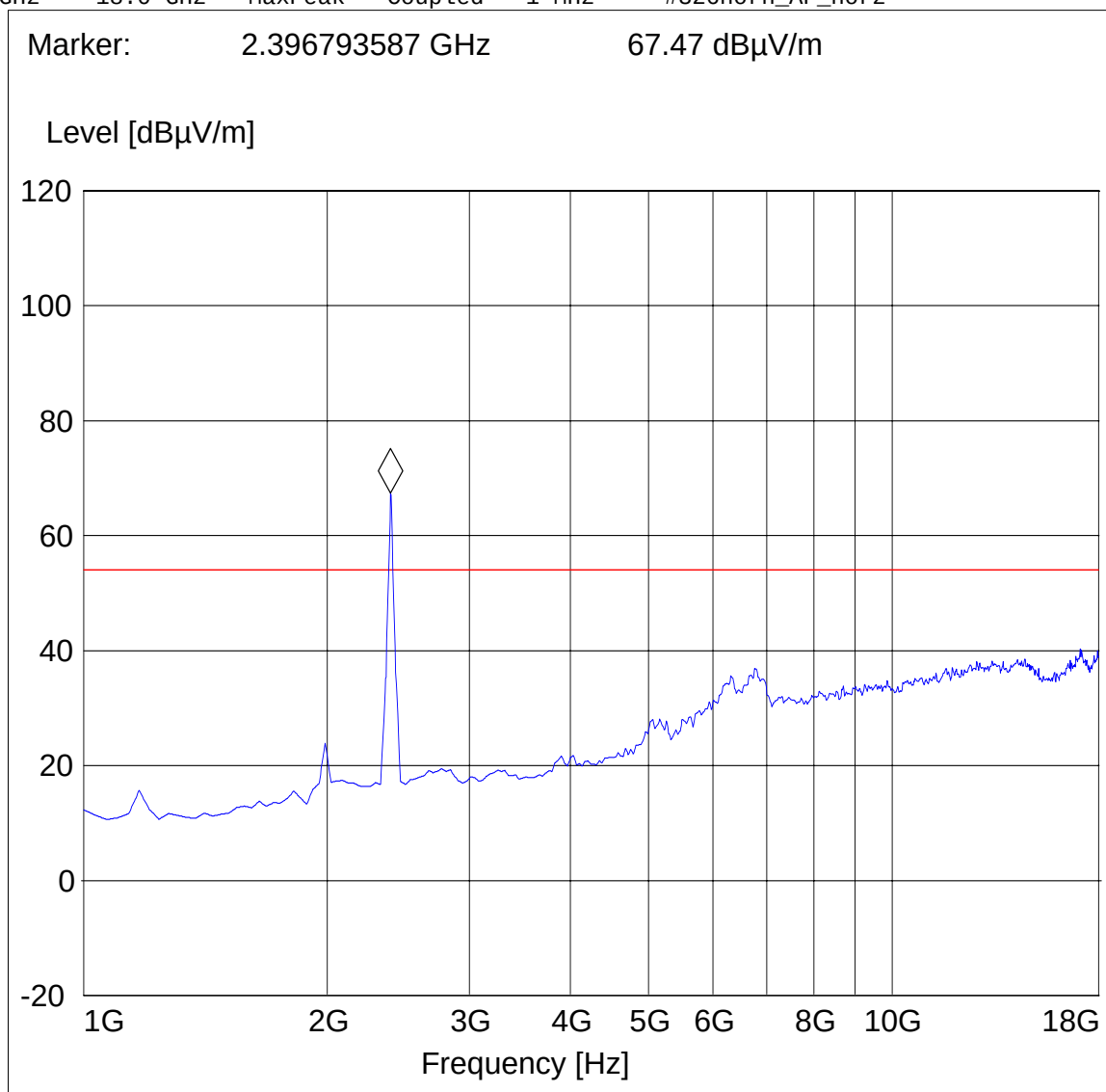


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2412 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Spears
Manufacturer: Broadcom
Test mode: 802.11b, CH.1, Aux Antenna
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan
Voltage: AC ADAPTER

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

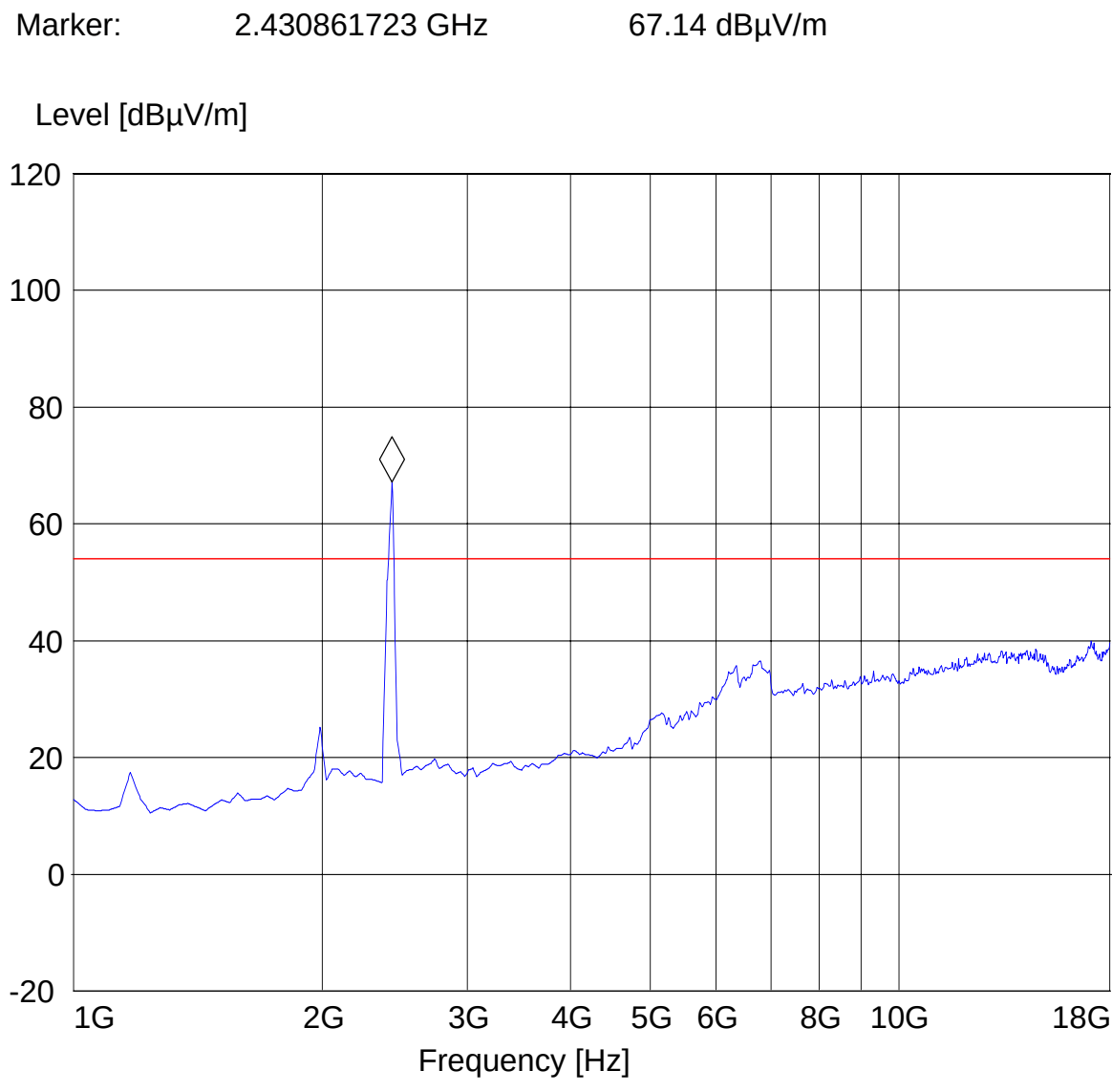


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2437 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Spears
Manufacturer: Broadcom
Test mode: 802.11b, CH.6, Aux Antenna
ANT Orientation: : V & H
EUT Orientation:: H
Test Engineer: Juan
Voltage: AC ADAPTER

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz

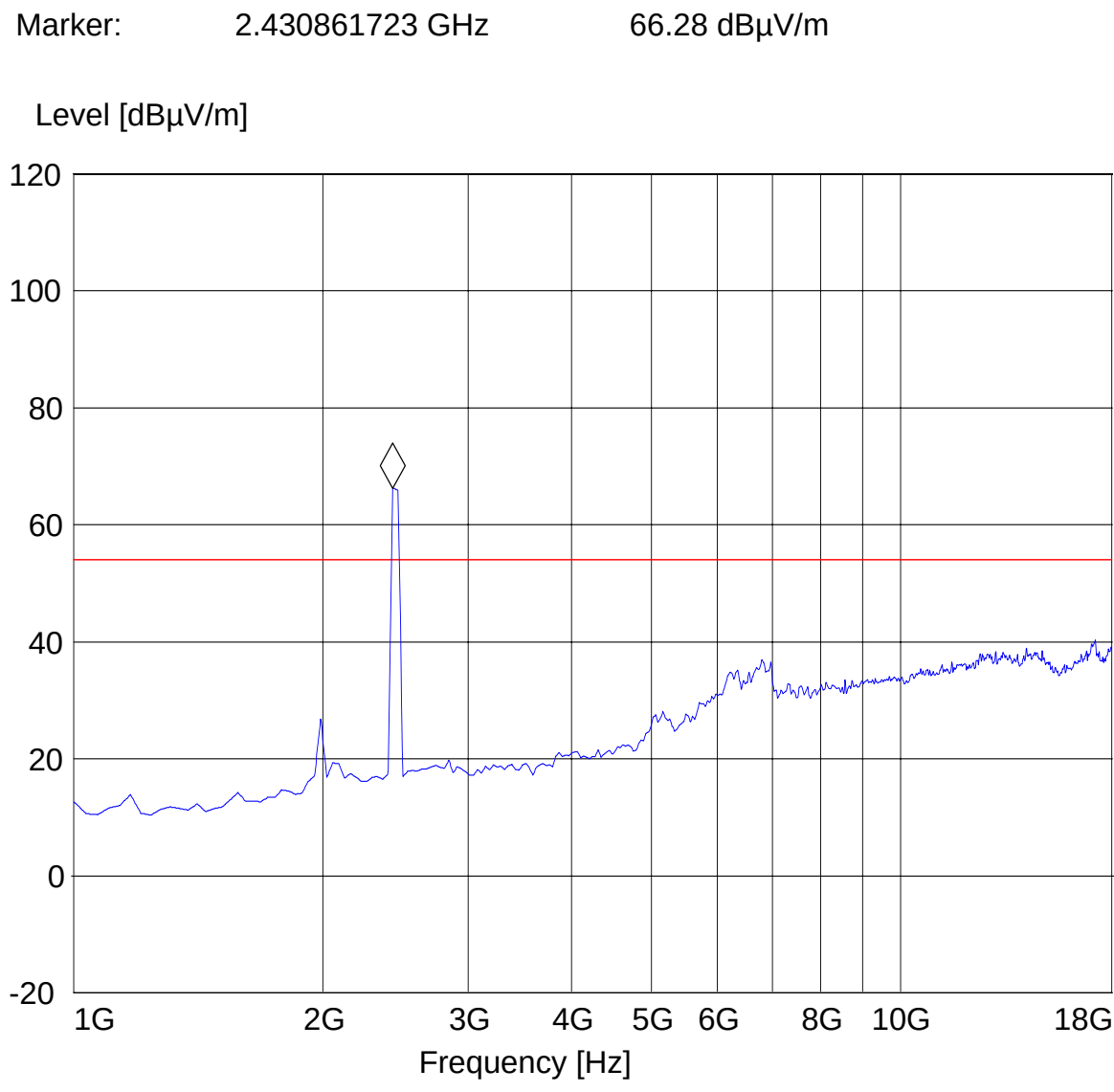


**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
2462 MHz: 1GHz – 18GHz****Note: Peak above the limit line is the carrier freq.**

EUT / Description: Spears
Manufacturer: Broadcom
Test mode: 802.11b, CH.11, Aux Antenna
ANT Orientation: : V
EUT Orientation:: H
Test Engineer: Juan
Voltage: AC ADAPTER

SWEEP TABLE: "FCC15.247_1-18G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz



**EMISSION LIMITATIONS - Radiated (Transmitter) §15.247 (d) & RSS-210(A8.5)
18GHz – 26.5GHz for low, middle, and high channels****Note: This plot is valid for low, mid, high channels (worst-case plot)**

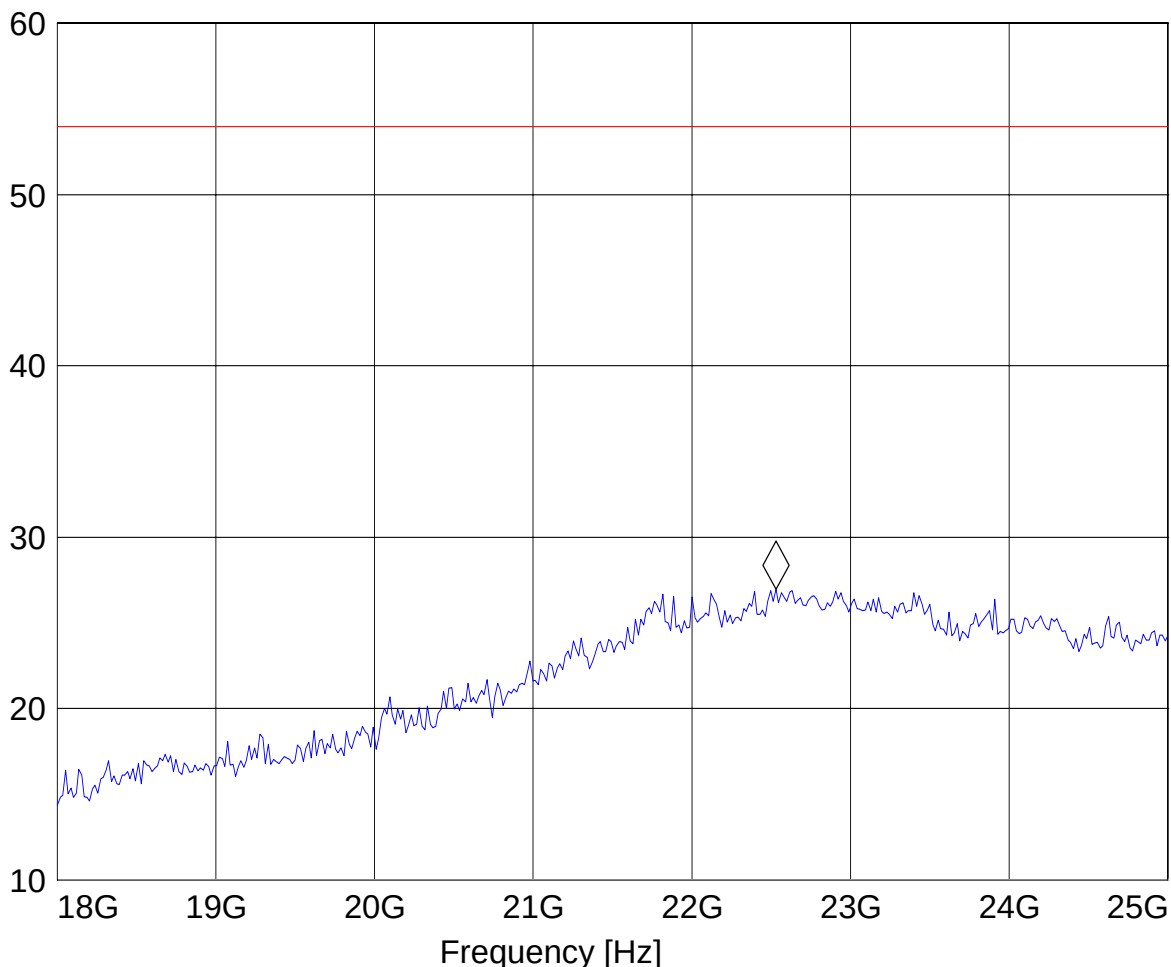
EUT: Spears
Customer: Broadcom
Test Mode: 802.11g, low, middle, and high, Aux Antenna
ANT Orientation: V & H
EUT Orientation: H
Test Engineer: Juan
Power Supply: AC Adaptor

SWEEP TABLE: "FCC15.247_18-26.5G"

Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
18.0 GHz	26.5 GHz	MaxPeak	Coupled	1 MHz	#572 horn AF

Marker: 22.531062124 GHz 26.99 dBμV/m

Level [dBμV/m]



7 AC POWER LINE CONDUCTED EMISSIONS § 15.207 & RSS-GEN (7.2.2)**LIMITS****Technical specification: 15.207 (Revised as of August 20, 2002)**

§15.107 (a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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****OPERATING MODE**

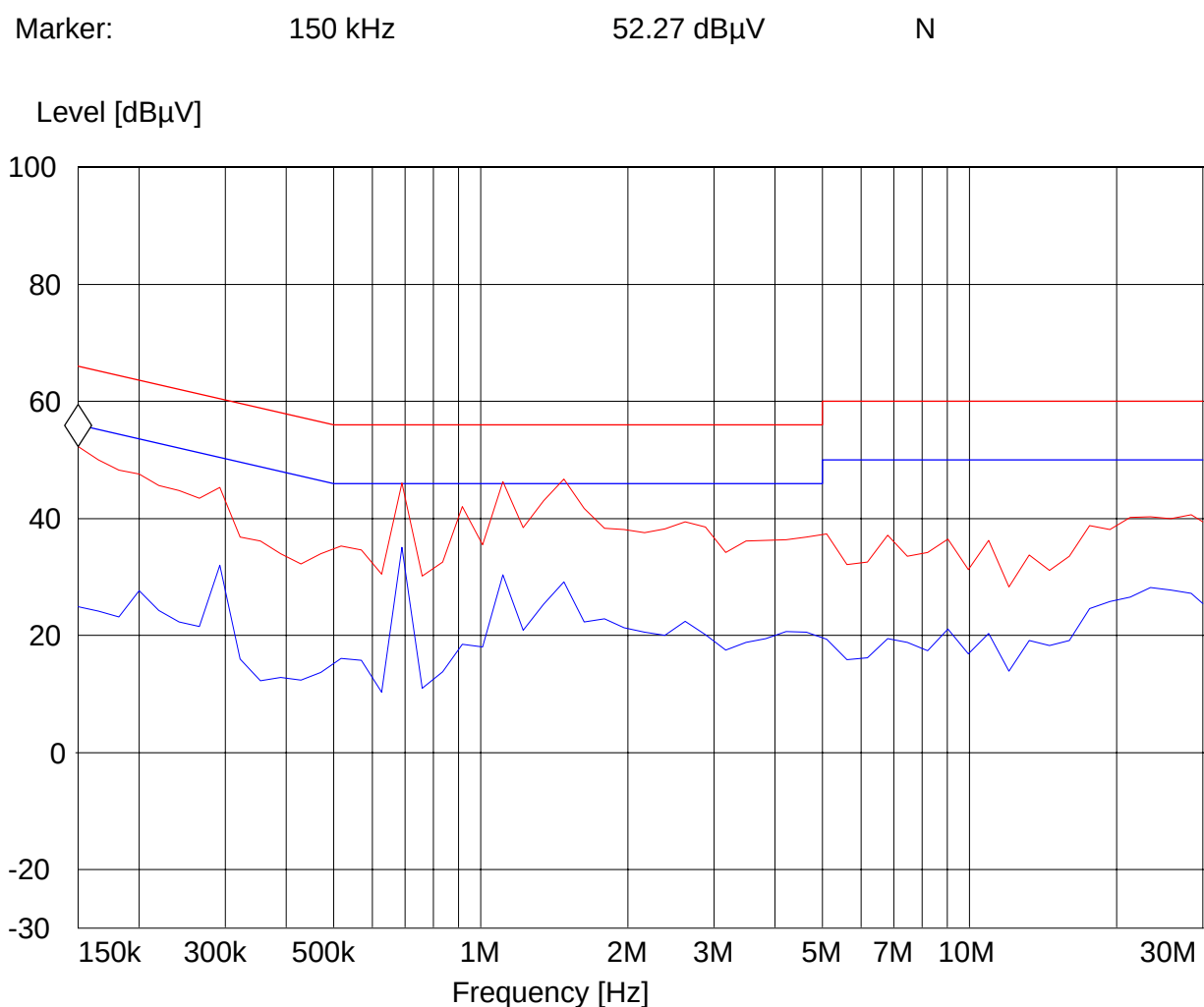
Conducted AC emissions testing were performed with 110 VAC @ 60 Hz with the EUT in Transmit and Receiver mode.

Voltage Mains Test (Line), Transmit

EUT: Dell Siberia
Manufacturer: Broadcom
Operating Condition: WLAN
ANT Orientation:: CONDUCTED
EUT Orientation:: H
Test Engineer:: Juan M.
Power Supply: : AC Adaptor
Comments: : 120V, 60Hz (LINE)

SWEEP TABLE: "55022 cond"

Short Description: EN 55022 for 150KHz-30MHz
Unit: dBμV



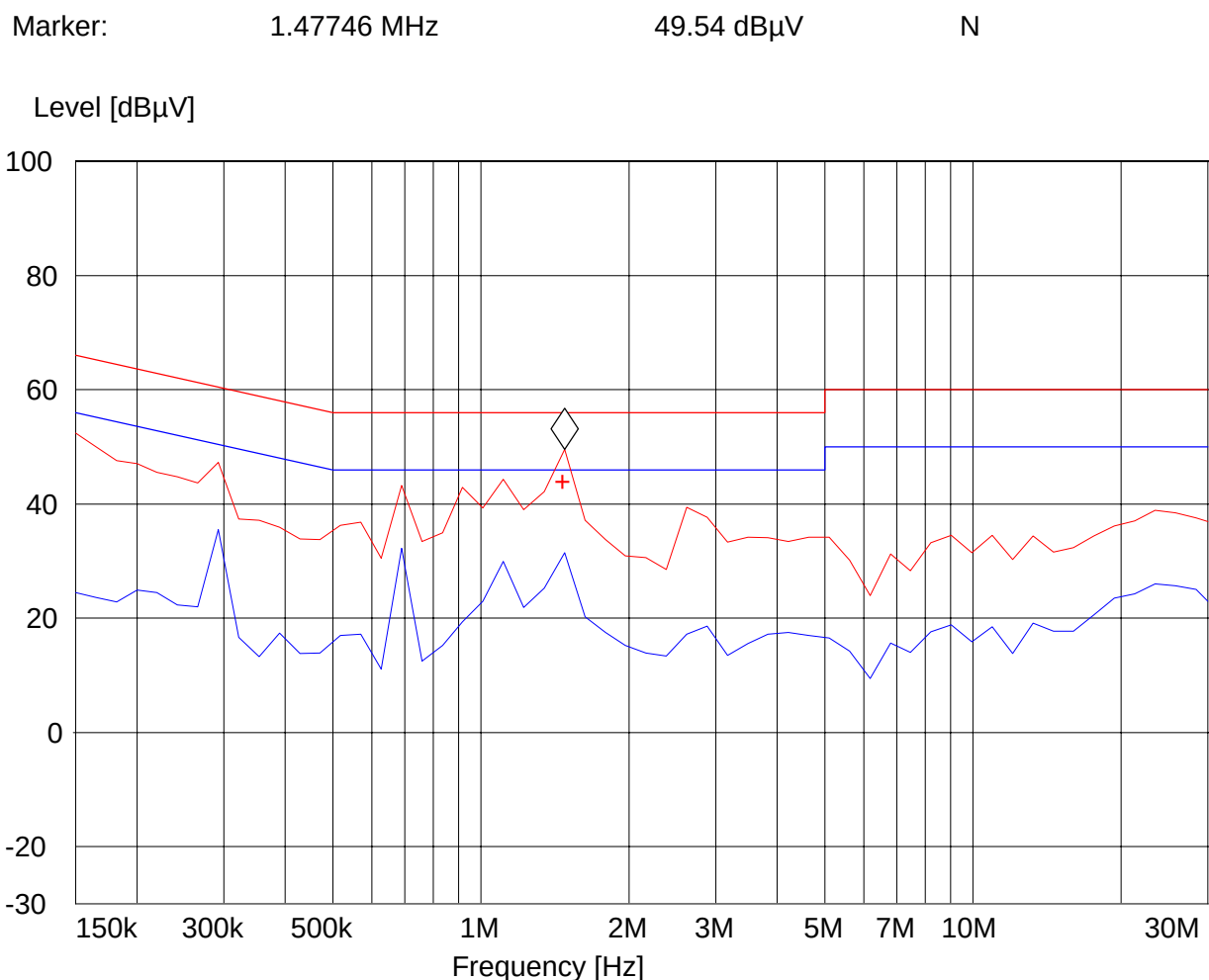
MES 55022 cond MaxPk
MES 55022 cond Avg
LIM EN 55022 V QP Voltage QP Limit
LIM EN 55022 V AV Voltage AV Limit

Voltage Mains Test (Neutral), Transmit

EUT: Dell Siberia
Manufacturer: Broadcom
Operating Condition: WLAN
ANT Orientation:: CONDUCTED
EUT Orientation:: H
Test Engineer:: Juan M.
Power Supply: : AC Adaptor
Comments: : 120V, 60 (Neutral)

SWEEP TABLE: "55022 cond"

Short Description: EN 55022 for 150KHz-30MHz
Unit: dBμV



+ MES 55022 V AV QPk
— MES 55022 cond MaxPk
— MES 55022 cond Avg
— LIM EN 55022 V QP Voltage QP Limit
— LIM EN 55022 V AV Voltage AV Limit

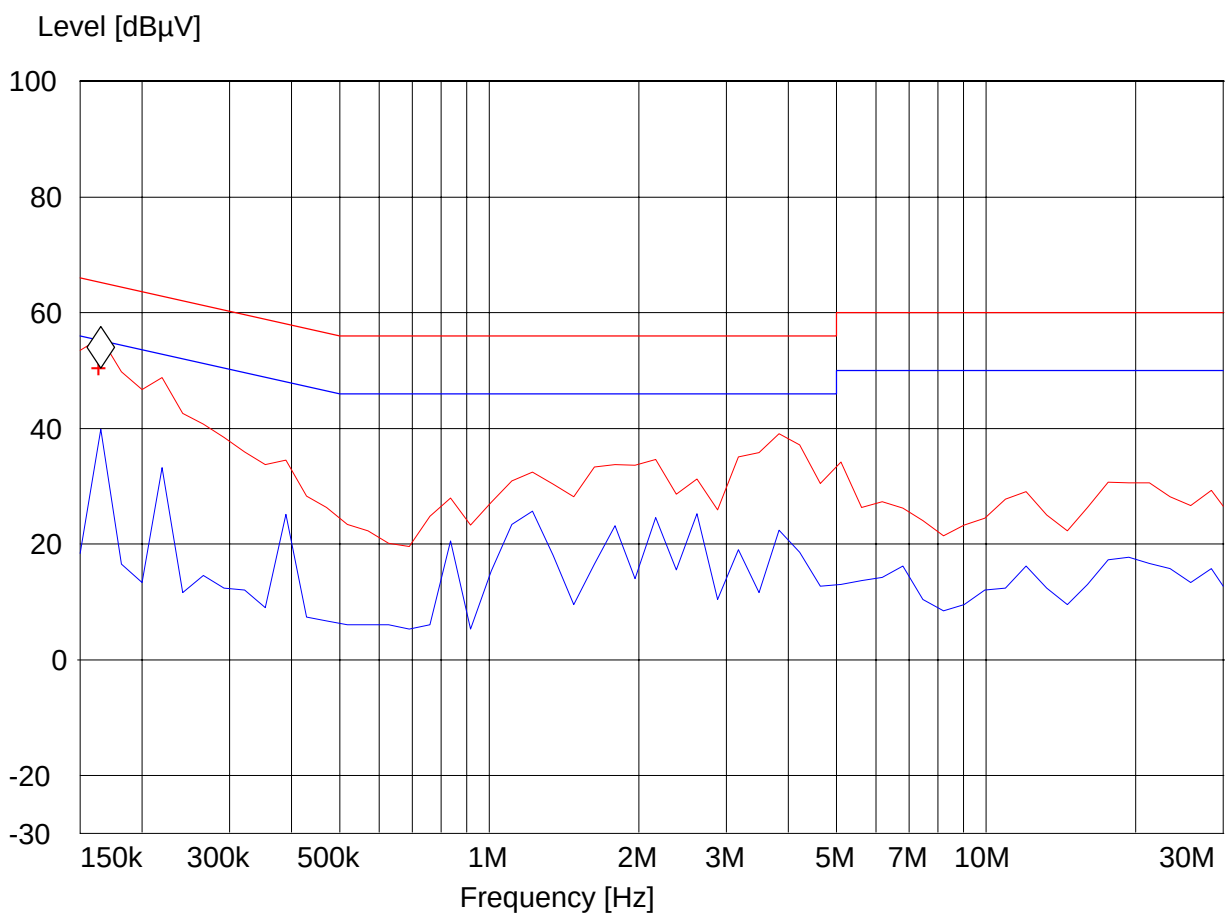
Voltage Mains Test (Line), Transmit

EUT: Parker
Manufacturer: Broadcom
Operating Condition: Tx Mode
ANT Orientation:: CONDUCTED
EUT Orientation:: H
Test Engineer:: Juan M.
Power Supply: : AC Adaptor
Comments: : 120V, 60Hz (Line)

SWEEP TABLE: "55022 cond"

Short Description: EN 55022 for 150KHz-30MHz
Unit: dBμV

Marker: 165 kHz 50.4 dBμV



+ MES 55022 V AV QPk
MES 55022 cond MaxPk
MES 55022 cond Avg
LIM EN 55022 V QP Voltage QP Limit
LIM EN 55022 V AV Voltage AV Limit

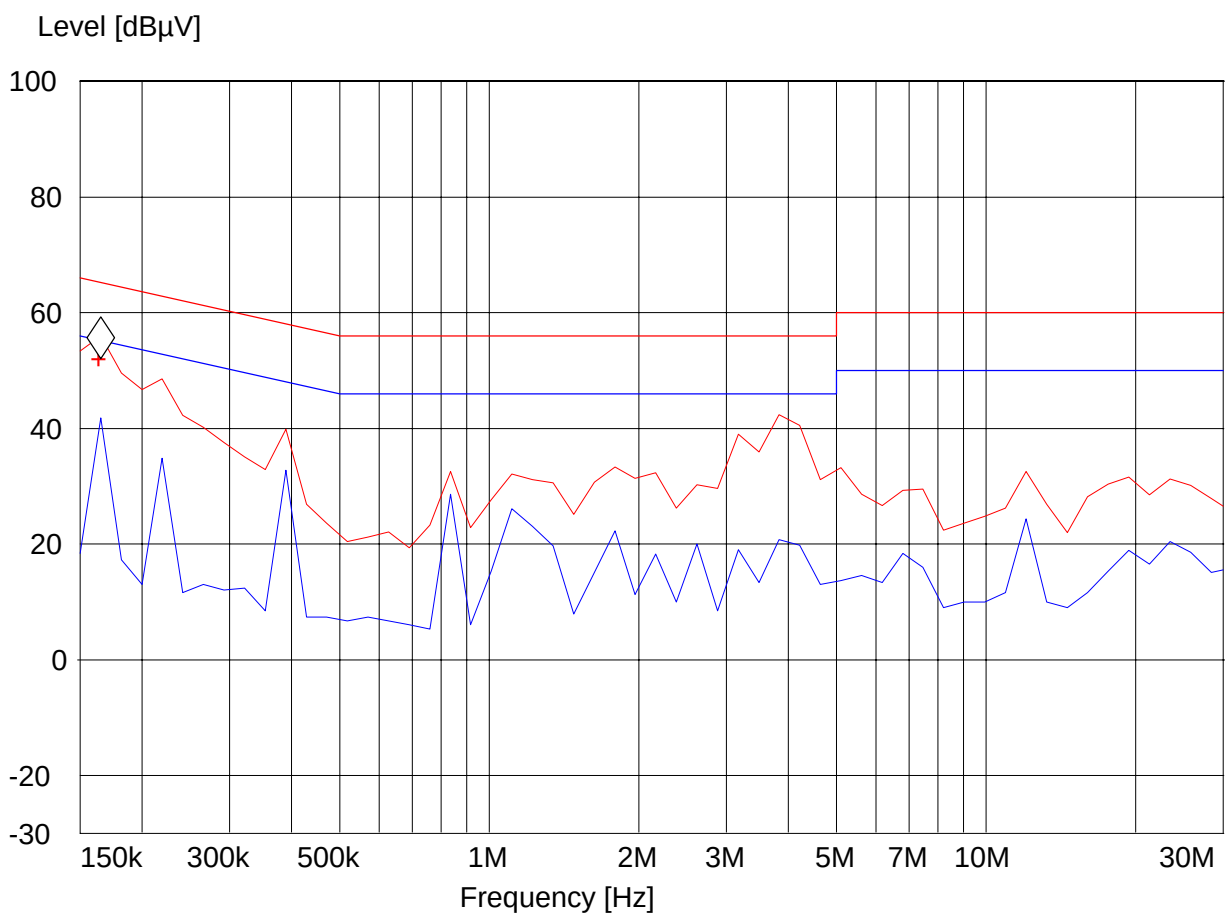
Voltage Mains Test (Neutral), Transmit

EUT: Parker
Manufacturer: Broadcom
Operating Condition: Tx Mode
ANT Orientation:: CONDUCTED
EUT Orientation:: H
Test Engineer:: Juan M.
Power Supply: : AC Adaptor
Comments: : 120V, 60Hz (Neutral)

SWEEP TABLE: "55022 cond"

Short Description: EN 55022 for 150KHz-30MHz
Unit: dB μ V

Marker: 165 kHz 52 dB μ V



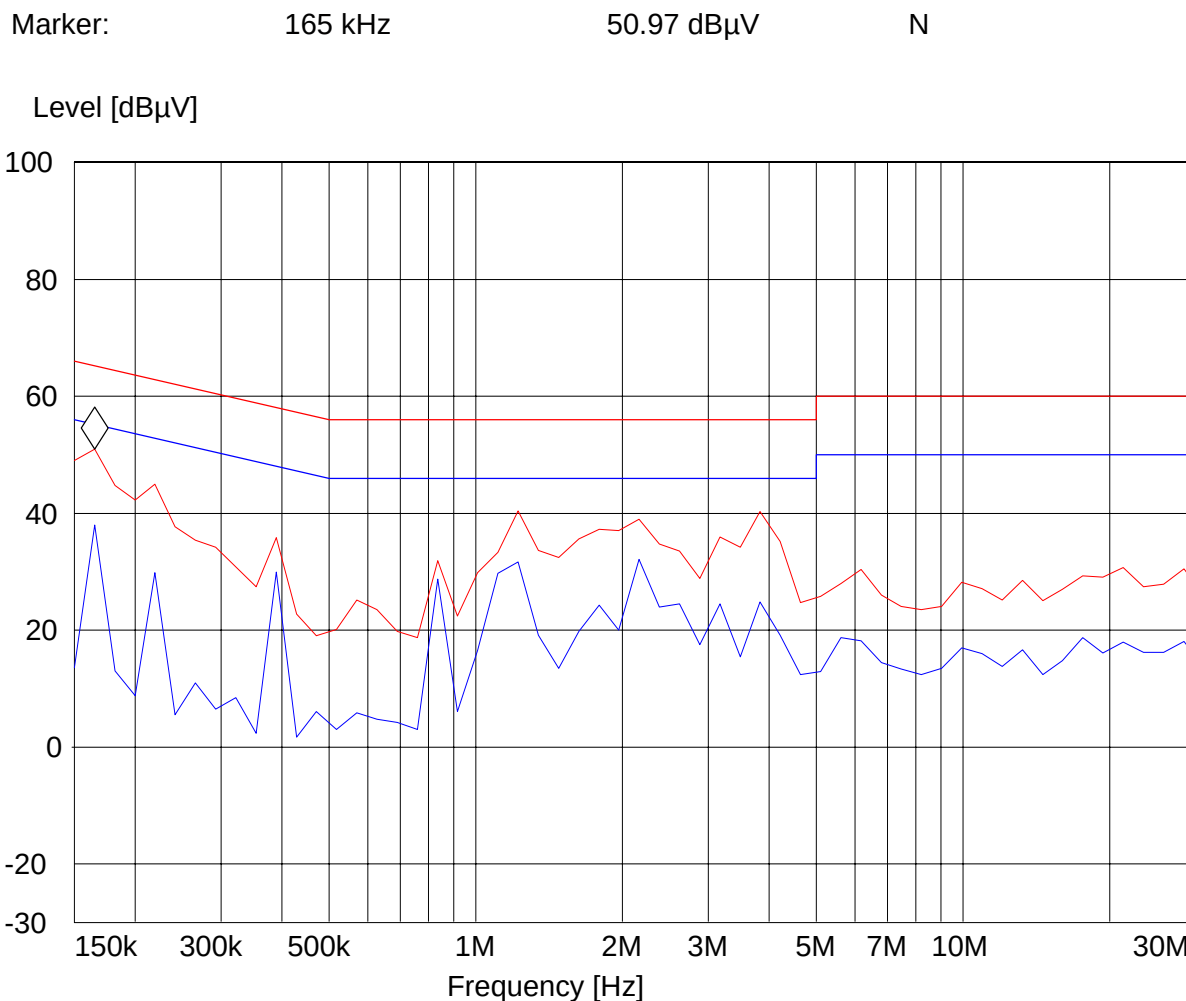
+ MES 55022 V AV QPk
— MES 55022 cond MaxPk
— MES 55022 cond Avg
— LIM EN 55022 V QP Voltage QP Limit
— LIM EN 55022 V AV Voltage AV Limit

Voltage Mains Test (Line), Transmit

EUT: Spear
Manufacturer: Broadcom
Operating Condition: Tx Mode
ANT Orientation:: CONDUCTED
EUT Orientation:: H
Test Engineer:: Juan M.
Power Supply: : AC Adaptor
Comments: 120V, 60Hz (Line)

SWEEP TABLE: "55022 cond"

Short Description: EN 55022 for 150KHz-30MHz
Unit: dBμV



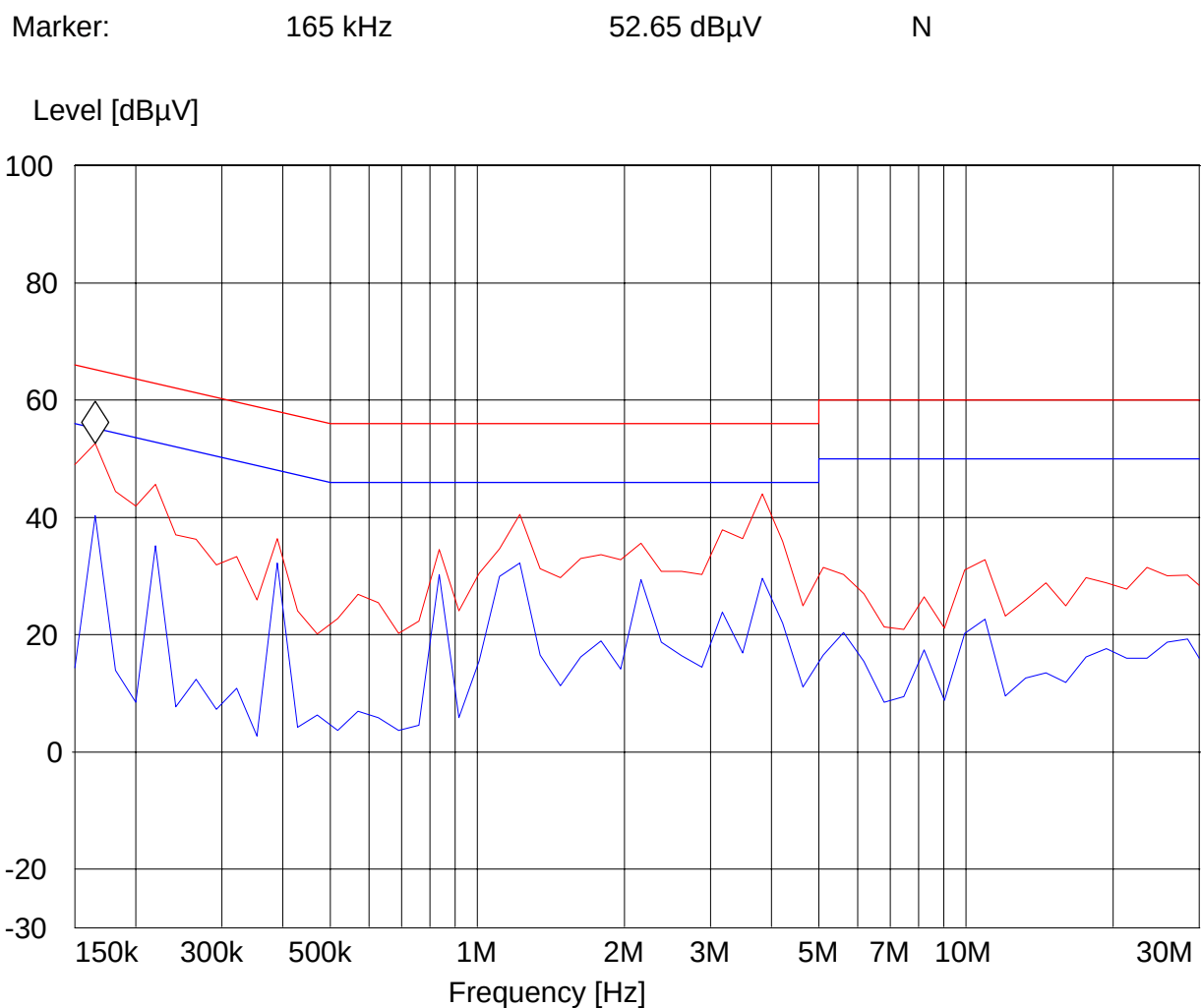
— MES 55022 cond MaxPk
— MES 55022 cond Avg
— LIM EN 55022 V QP Voltage QP Limit
— LIM EN 55022 V AV Voltage AV Limit

Voltage Mains Test (Neutral), Transmit

EUT: Spear
Manufacturer: Broadcom
Operating Condition: Tx Mode
ANT Orientation:: CONDUCTED
EUT Orientation:: H
Test Engineer:: Juan M.
Power Supply: : AC Adaptor
Comments: : 120V,60Hz (Neutral)

SWEEP TABLE: "55022 cond"

Short Description: EN 55022 for 150KHz-30MHz
Unit: dBμV



— MES 55022 cond MaxPk
— MES 55022 cond Avg
— LIM EN 55022 V QP Voltage QP Limit
— LIM EN 55022 V AV Voltage AV Limit

**8 TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS**

No	Instrument/Ancillary	Type	Manufacturer	Serial No.	Cal Due	Interval
01	Spectrum Analyzer	ESIB 40	Rohde & Schwarz	100107	May 2008	1 year
05	Biconilog Antenna	3141	EMCO	0005-1186	June 2008	1 year
06	Horn Antenna (1-18GHz)	SAS-200/571	AH Systems	325	June 2008	1 year
07	Horn Antenna (18-26.5GHz)	3160-09	EMCO	1240	June 2008	1 year
10	High Pass Filter	5HC2700	Trilithic Inc.	9926013	n/a	n/a
11	High Pass Filter	4HC1600	Trilithic Inc.	9922307	n/a	n/a
16	LISN	ESH3-Z5	Rohde & Schwarz	836679/003	May 2008	1 year

9 **BLOCK DIAGRAMS**

9.1 Radiated Testing

ANECHOIC CHAMBER

