

## EMC TEST REPORT

FCC 47 CFR Part 15B  
Industry Canada RSS-Gen

Electromagnetic compatibility - Unintentional radiators

Report Reference No. .... : G0M-1411-4293-EF0115B-V01

Testing Laboratory ..... : Eurofins Product Service GmbH

Address ..... : Storkower Str. 38c  
15526 Reichenwalde  
Germany

Accreditation ..... :



A2LA Accredited Testing Laboratory, Certificate No.: 1983.01  
FCC Filed Test Laboratory, Reg.-No.: 96970  
IC OATS Filing assigned code: 3470A

Applicant's name ..... : AED Engineering

Address ..... : Taunusstraße 51  
80807 München  
GERMANY

### Test specification:

Standard..... : 47 CFR Part 15 Subpart B  
RSS-Gen, Issue 3, 2010-12  
ANSI C63.4:2009

### Equipment under test (EUT):

Product description CAN-WLAN Gateway RH

Model No. GN1001A

Additional Models None

Hardware version B0

Firmware / Software version None

FCC-ID: 2AELE-GN1001A

IC: 20129-GN1001A

Test result **Passed**

Test Report No.: G0M-1411-4293-EF0115B-V01

Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Possible test case verdicts:**

- not applicable to test object ..... : N/A
- test object does meet the requirement ..... : P (Pass)
- test object does not meet the requirement ..... : F (Fail)

**Testing:**

Date of receipt of test item ..... : 2015-02-18

Date (s) of performance of tests ..... : 2015-02-26 – 2015-03-23

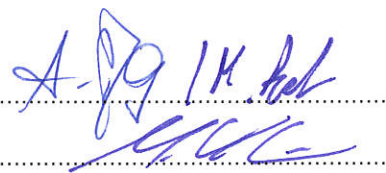
Compiled by ..... : Marcus Klein

Tested by (+ signature) ..... : Andreas Pflug / Marco Belz

Approved by (+ signature) ..... : Marcus Klein

Date of issue ..... : 2015-08-28

Total number of pages ..... : 35


**General remarks:**

**The test results presented in this report relate only to the object tested.**

**The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.**

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

**Additional comments:**

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## Version History

Version	Issue Date	Remarks	Revised by
V01	2015-08-28	Initial Release	

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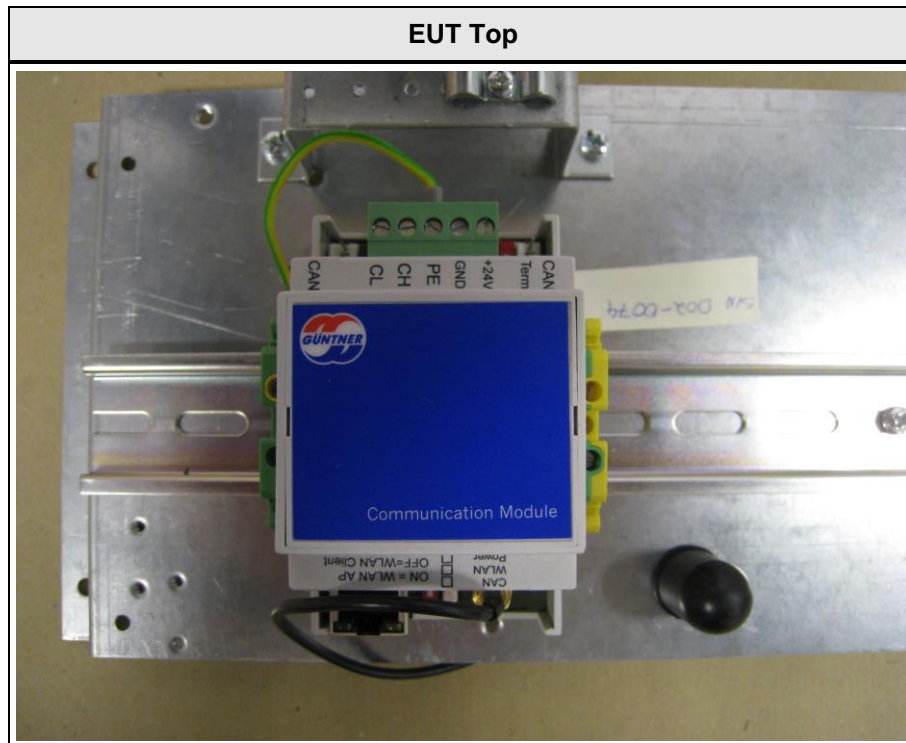
## REPORT INDEX

<b>1</b>	<b>EQUIPMENT (TEST ITEM) DESCRIPTION</b>	<b>5</b>
1.1	Photos – Equipment external	6
1.2	Photos – Equipment internal	7
1.3	Photos – Test setup	8
1.4	Supporting Equipment Used During Testing	9
1.5	Input / Output Ports	9
1.6	Operating Modes and Configurations	10
1.7	Test Equipment Used During Testing	11
1.8	Sample emission level calculation	12
<b>2</b>	<b>RESULT SUMMARY</b>	<b>13</b>
<b>3</b>	<b>TEST CONDITIONS AND RESULTS</b>	<b>14</b>
3.1	Test Conditions and Results – Radiated emissions	14
3.2	Test Conditions and Results – AC power line conducted emissions	32

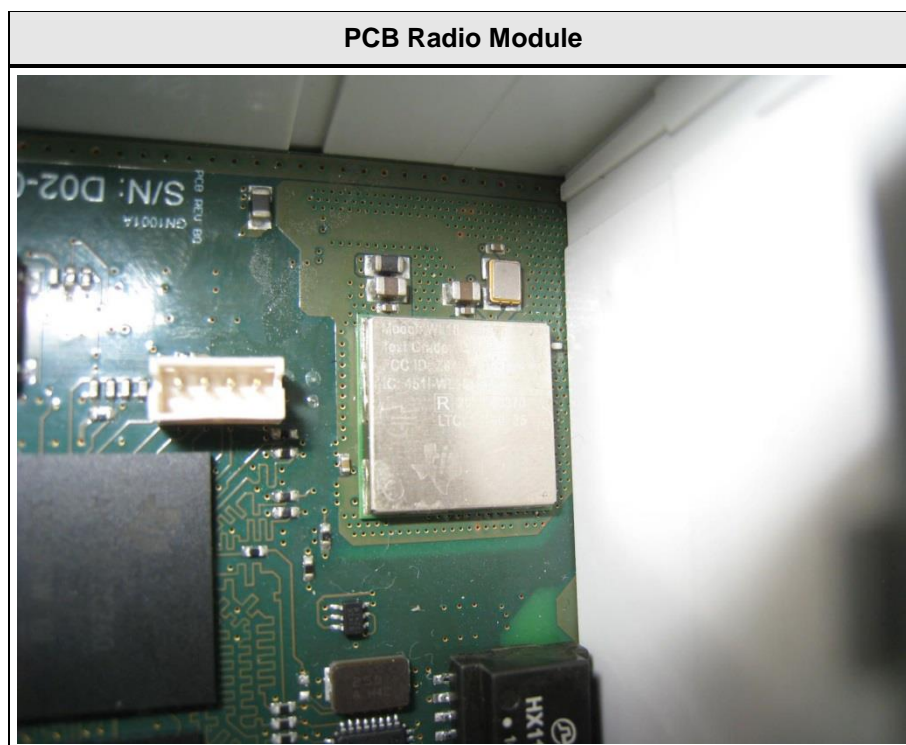
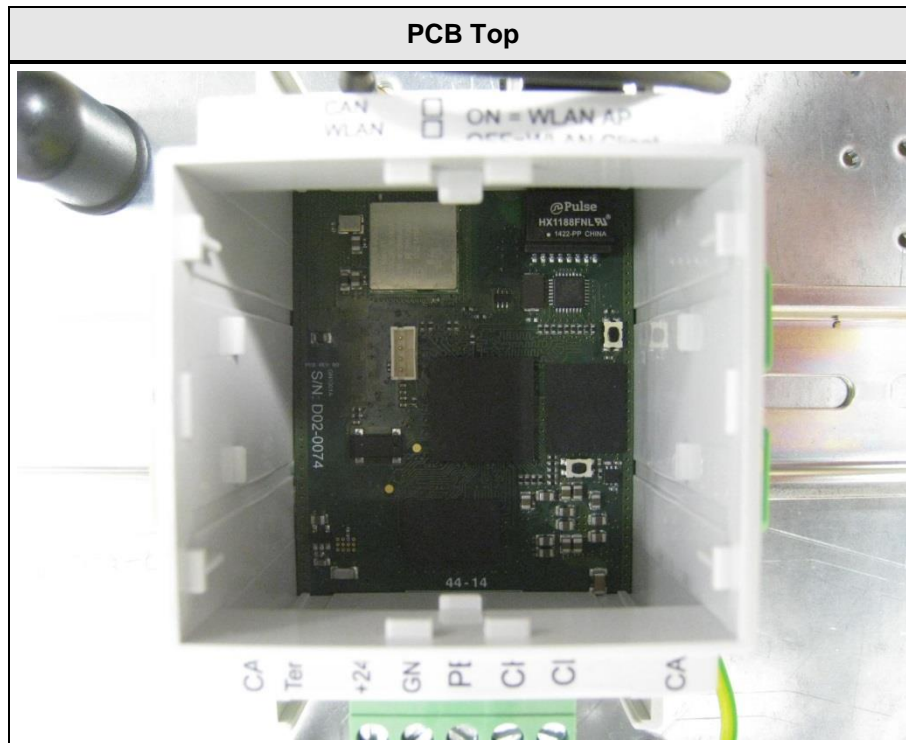
## 1 Equipment (Test item) Description

<b>Description</b>	CAN-WLAN Gateway RH	
<b>Model</b>	GN1001A	
<b>Additional Models</b>	None	
<b>Serial number</b>	None	
<b>Hardware version</b>	B0	
<b>Software / Firmware version</b>	None	
<b>FCC-ID</b>	2AELE-GN1001A	
<b>IC</b>	20129-GN1001A	
<b>Power supply</b>	24 VDC	
<b>AC/DC-Adaptor</b>	None	
<b>Radio module</b>	Type	WLAN Module
	Model	WL18 MODG B
	Manufacturer	Texas Instruments
	HW Version	WL1801
	SW Version	None
	FCC-ID	Z64-WL18SBMOD
	IC	451I-WL18SBMOD
<b>Manufacturer</b>	AED Engineering Taunusstraße 51 80807 München GERMANY	
<b>Highest emission frequency</b>	Fmax [MHz] = 2400	
<b>Device classification</b>	Class B	
<b>Equipment type</b>	Tabletop	
<b>Number of tested samples</b>	1	

## 1.1 Photos – Equipment external

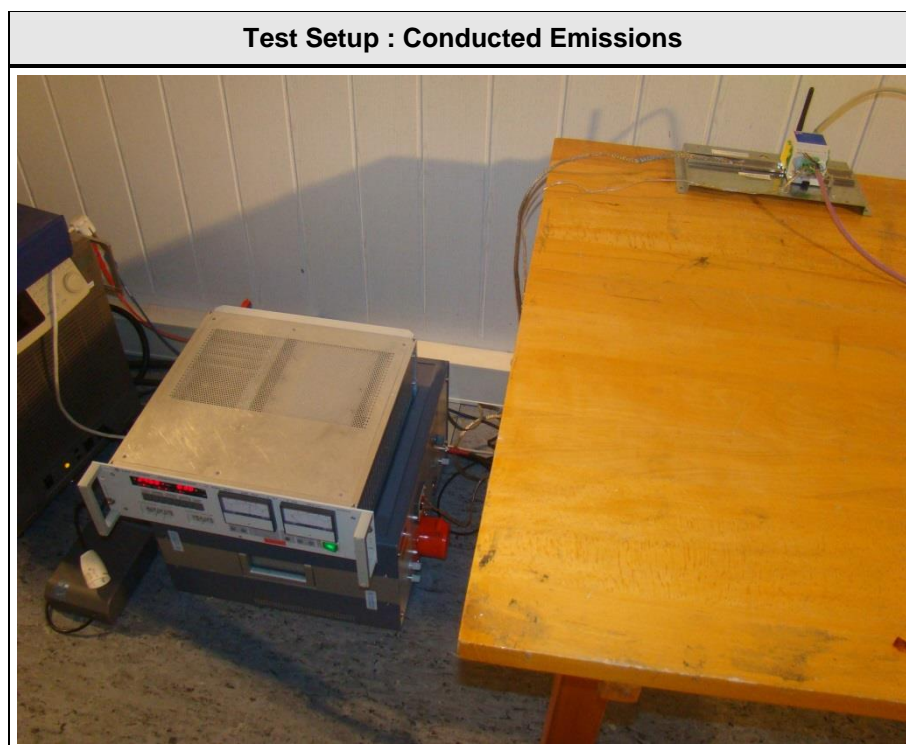
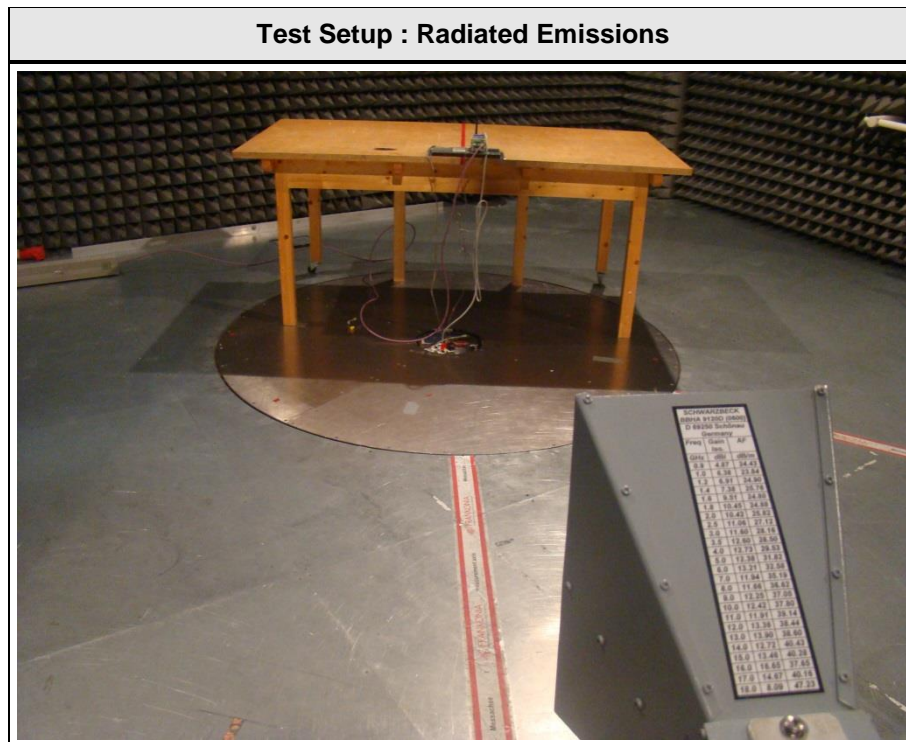


## 1.2 Photos – Equipment internal





### 1.3 Photos – Test setup





#### 1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
AE	Notebook	Lenovo	R61	
AE	WiFi Router	SITECOM	WLR-5100	
AE	SENSOR	GÜNTNER GmbH	GTF201	
AE	STEP Controller	GÜNTNER GmbH	GRCS.1	
AE	Bus Cable	HEUKABEL	-	
AE	Power Supply	Mean Well	MDR-20-24	

**\*Note:** Use the following abbreviations:

AE : Auxiliary/Associated Equipment, or

SIM : Simulator (Not Subjected to Test)

CABL : Connecting cables

#### 1.5 Input / Output Ports

Port #	Name	Type*	Max. Cable Length	Cable Shielded	Comments
1	DC Power	DC	>3m	No	
2	Ethernet	TP	2m	Yes	
3	CAN	I/O	2m	Yes	3x

**\*Note:** Use the following abbreviations:

AC : AC power port

DC : DC power port

N/E : Non electrical

I/O : Signal input or output port

TP : Telecommunication port

## 1.6 Operating Modes and Configurations

Mode #	Description
1	EUT powered with 24 VDC. Ethernet link to Notebook established.
2	EUT powered with 24 VDC. WLAN link to Notebook established.
3	EUT powered with 24 VDC from external AC Power Supply which is powered with 120 VAC. Ethernet and WLAN link to Notebook established.

Configuration #	EUT Configuration
1	EUT equipped with external antenna.

## 1.7 Test Equipment Used During Testing

Measurement Software			
Description	Manufacturer	Name	Version
EMC Test Software	Dare Instruments	Radimation	2014.1.15

Radiated emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD-Antenne	R&S	HL 223	EF00187	2014-03	2017-03
Horn antenna	Schwarzbeck	BBHA 9120D	EF00018	2013-09	2016-09
EMI Test Receiver	R&S	ESU26	EF00887	2015-01	2016-01

Conducted emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	R&S	ESH2-Z5	EF00182	2014-11	2016-11
AMN	R&S	ESH3-Z5	EF00036	2014-12	2016-12
EMI Test Receiver	R&S	ESCS 30	EF00295	2014-10	2015-10

## 1.8 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dB $\mu$ V. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dB $\mu$ V/m). The FCC limits are given in units of  $\mu$ V/m. The following formula is used to convert the units of  $\mu$ V/m to dB $\mu$ V/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 * \log (\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

Reading	+	AF	=	Net Reading	:	Net reading - FCC limit	=	Margin
21.5 dB $\mu$ V	+	26 dB	=	47.5 dB $\mu$ V/m	:	47.5 dB $\mu$ V/m - 57.0 dB $\mu$ V/m	=	-9.5 dB

## 2 Result Summary

FCC 47 CFR Part 15B, Industry Canada RSS-Gen				
Product Specific Standard	Requirement – Test	Reference Method	Result	Remarks
47 CFR 15.109 RSS-Gen 6.13	Radiated emissions	ANSI C 63.4	PASS	
47 CFR 15.107 RSS-Gen 8.8	AC power line conducted emissions	ANSI C63.4	PASS	
Remarks:				

### 3 Test Conditions and Results

#### 3.1 Test Conditions and Results – Radiated emissions

Radiated emissions acc. FCC 47 CFR 15.109 / IC RSS-Gen				Verdict: PASS		
Laboratory Parameters:		Required prior to the test		During the test		
Ambient Temperature		15 to 35 °C		23°C		
Relative Humidity		30 to 60 %		32%		
Test according referenced standards		Reference Method				
		ANSI C63.4				
Sample is tested with respect to the requirements of the equipment class		Equipment class				
		Class B				
Test frequency range determined from highest emission frequency		Highest emission frequency				
		Fmax [MHz] = 2400				
Fully configured sample scanned over the following frequency range		Frequency range				
		30 MHz to 12 GHz				
Operating mode		1 / 2				
Configuration		1				
Limits and results Class B						
Frequency [MHz]	Quasi-Peak [dBµV/m]	Result	Average [dBµV/m]	Result	Peak [dBµV/m]	Result
30 – 88	40	PASS	-		-	-
88 – 216	43.5	PASS	-		-	-
216 – 960	46	PASS	-		-	-
960 – 1000	54	PASS	-		-	-
> 1000	-	-	54	PASS	74	PASS
Comments:						



**Test Procedure:**

The test site is in accordance with ANSI C63-4:2009 requirements and is listed by FCC.

The measurement procedure is as follows:

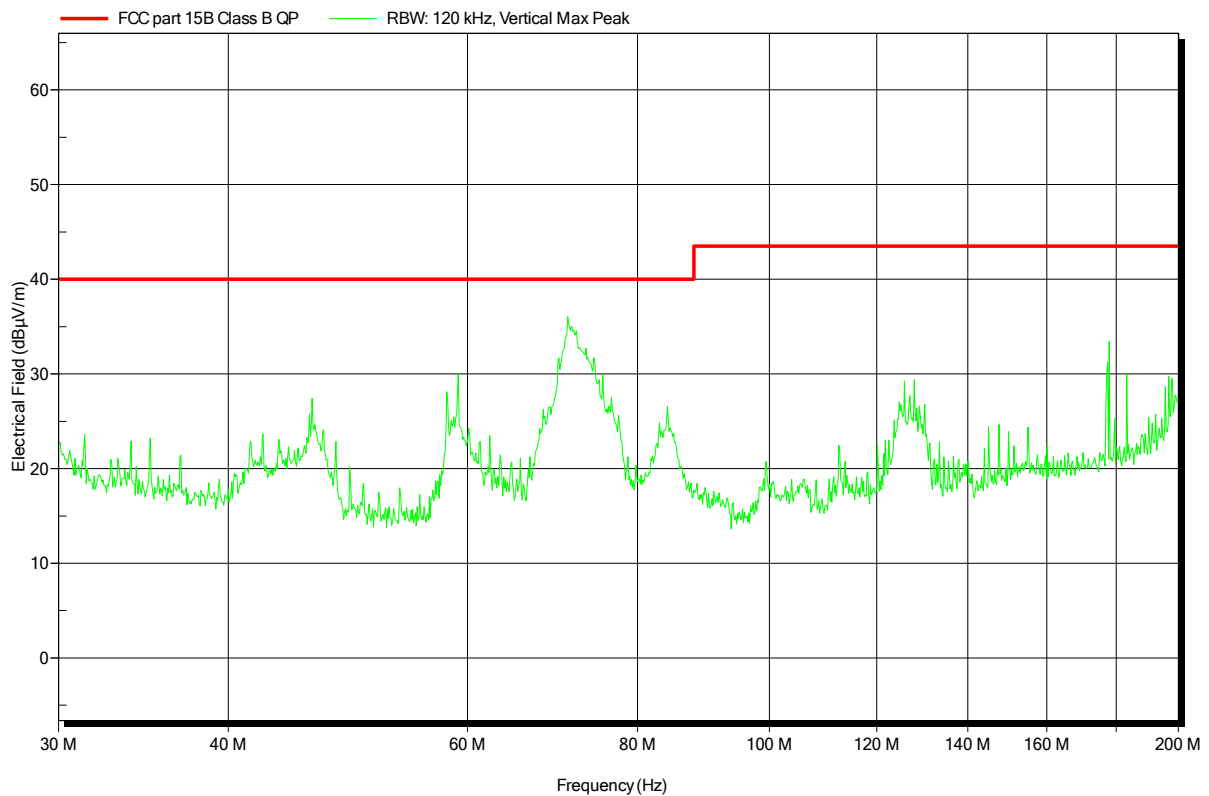
- 1) The EUT was placed on a 0.8 m non conductive table at a 3 m distance from the receive antenna (ANSI C63.4: 2009 item 6.2)
- 2) The antenna output was connected to the measurement receiver
- 3) A biconical antenna was used for the frequency range 30 – 200 MHz, a logarithmic periodical antenna was used for the frequency range from 200 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast
- 4) Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded.

## Spurious emissions under normal conditions according to FCC 15B

Project number: G0M-1411-4293

Manufacturer:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Belz
Test Conditions:	Tnom: 23°C, Unom: + 24 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3m
Mode:	WLAN aktiv
Test Date:	2015-03-24
Note:	

Index 29



Test Report No.: G0M-1411-4293-EF0115B-V01

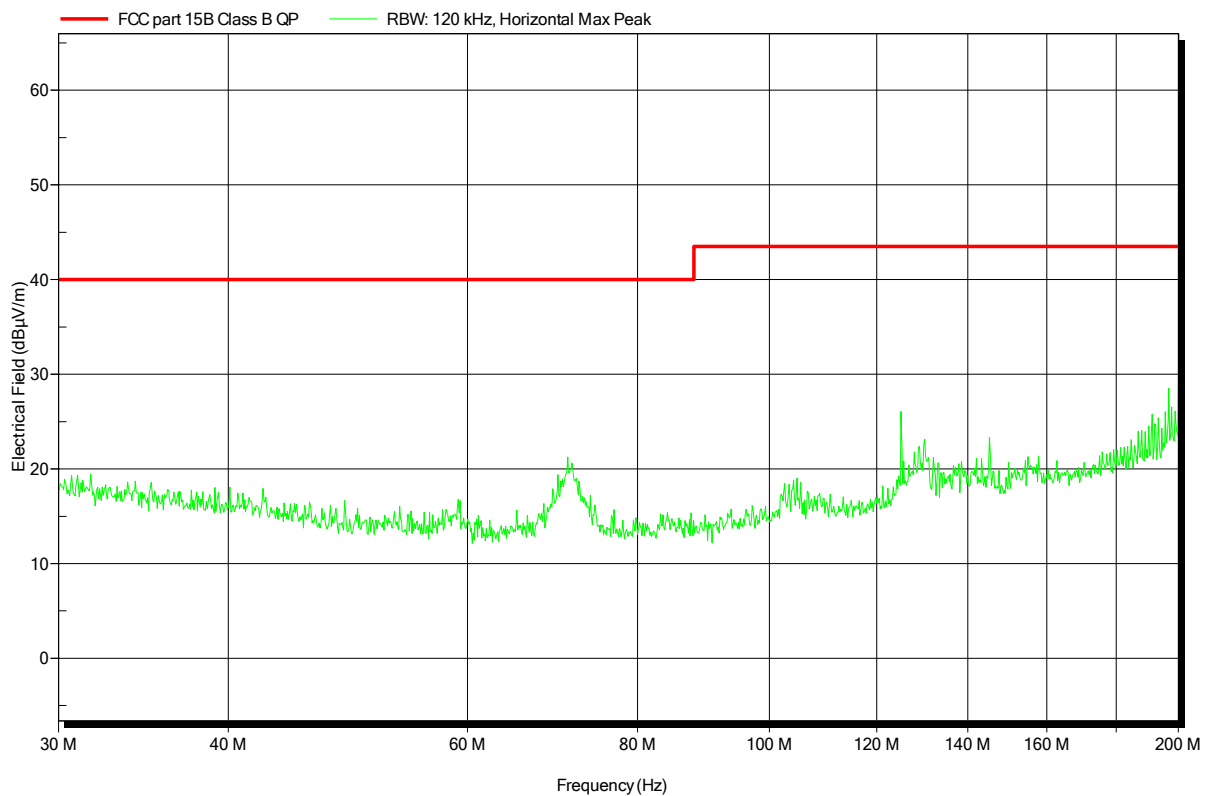
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

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 Model: GN1001A  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Belz  
 Test Conditions: Tnom: 23°C, Unom: + 24 VDC  
 Antenna: Rohde & Schwarz HK 116, Horizontal  
 Measurement distance: 3m  
 Mode: WLAN aktiv  
 Test Date: 2015-03-24  
 Note:

Index 30

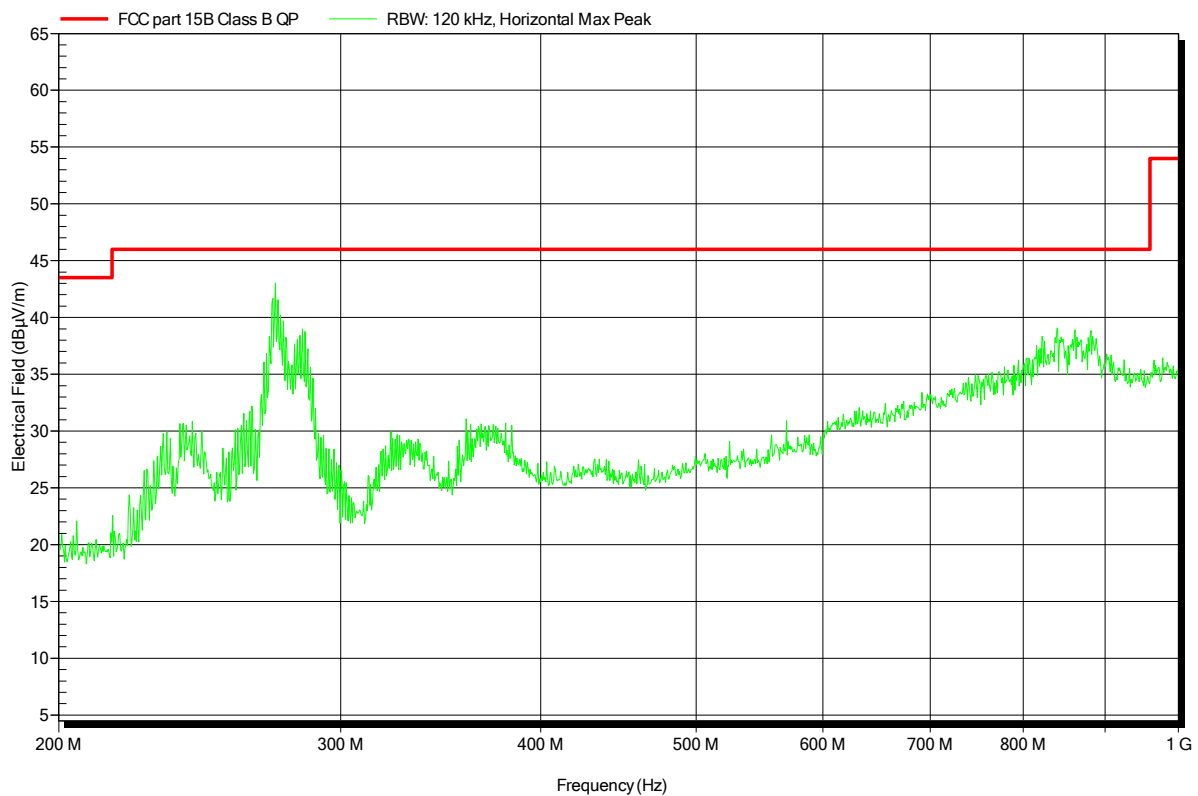


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Note:	

Index 36



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 Antenna: Rohde & Schwarz HL 223, Vertical  
 Measurement distance: 3m  
 Mode: WLAN aktiv  
 Test Date: 2015-03-24  
 Note:

Index 37

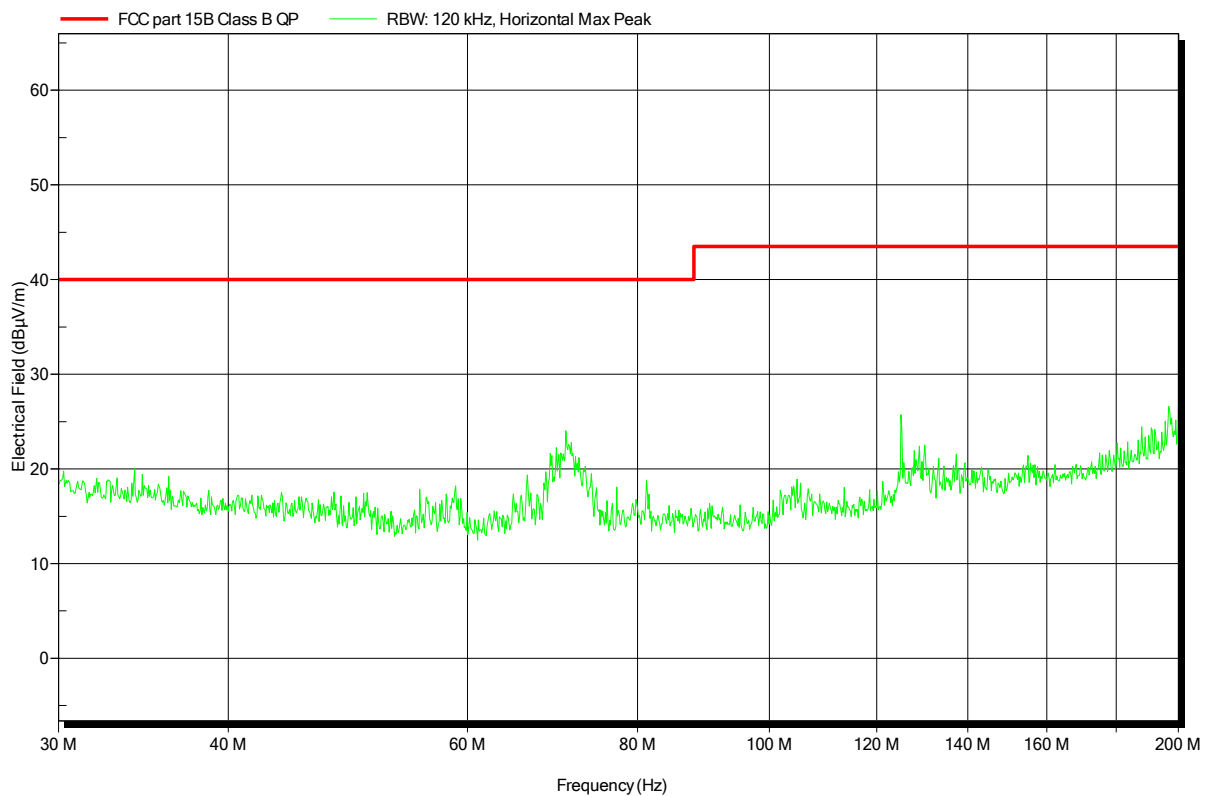


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 Model: GN1001A  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Belz  
 Test Conditions: Tnom: 23°C, Unom: + 24 VDC  
 Antenna: Rohde & Schwarz HK 116, Horizontal  
 Measurement distance: 3m  
 Mode: LAN aktiv  
 Test Date: 2015-03-24  
 Note:

Index 31



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Eurofins Product Service GmbH  
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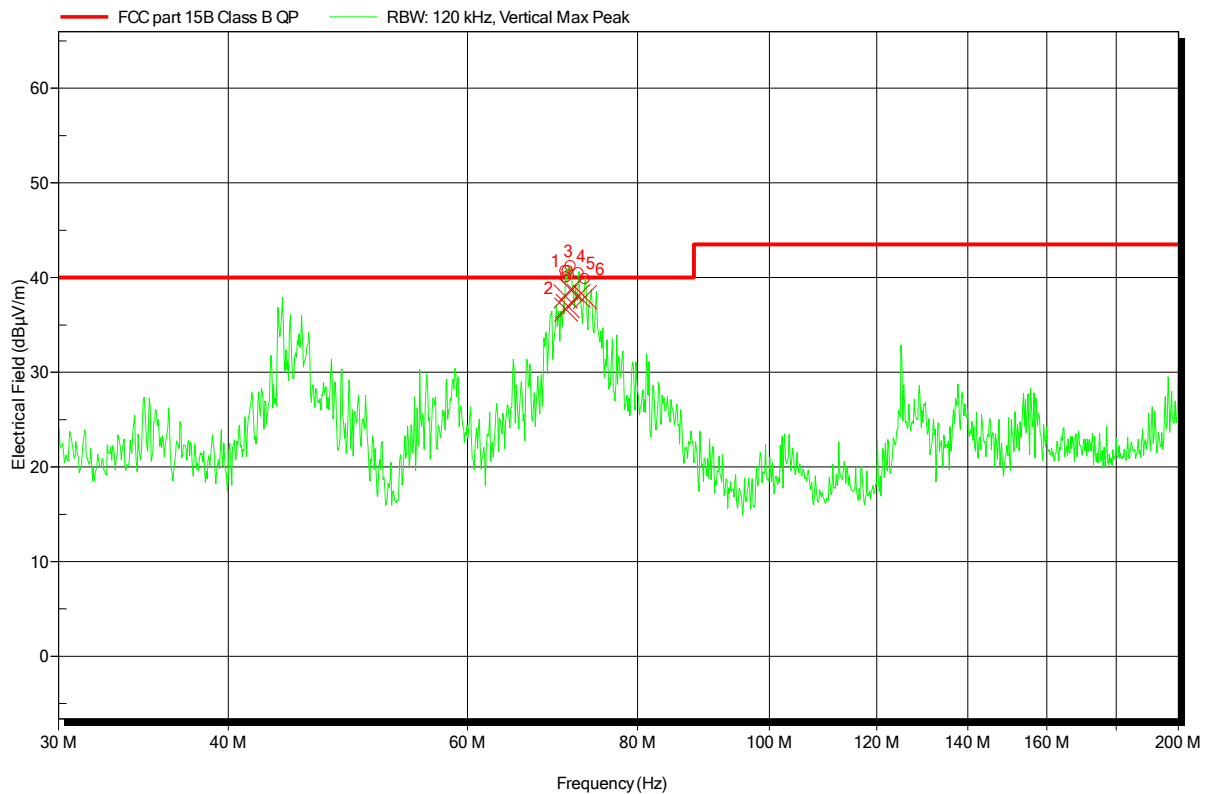


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 Test Date: 2015-03-24  
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Index 32



Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
70.818 MHz	38 dBµV/m	40 dBµV/m	-2 dB	Pass
70.92 MHz	36.63 dBµV/m	40 dBµV/m	-3.37 dB	Pass
71.1 MHz	37 dBµV/m	40 dBµV/m	-3 dB	Pass
71.436 MHz	38.71 dBµV/m	40 dBµV/m	-1.29 dB	Pass
72.39 MHz	38.07 dBµV/m	40 dBµV/m	-1.93 dB	Pass
73.188 MHz	37.95 dBµV/m	40 dBµV/m	-2.05 dB	Pass

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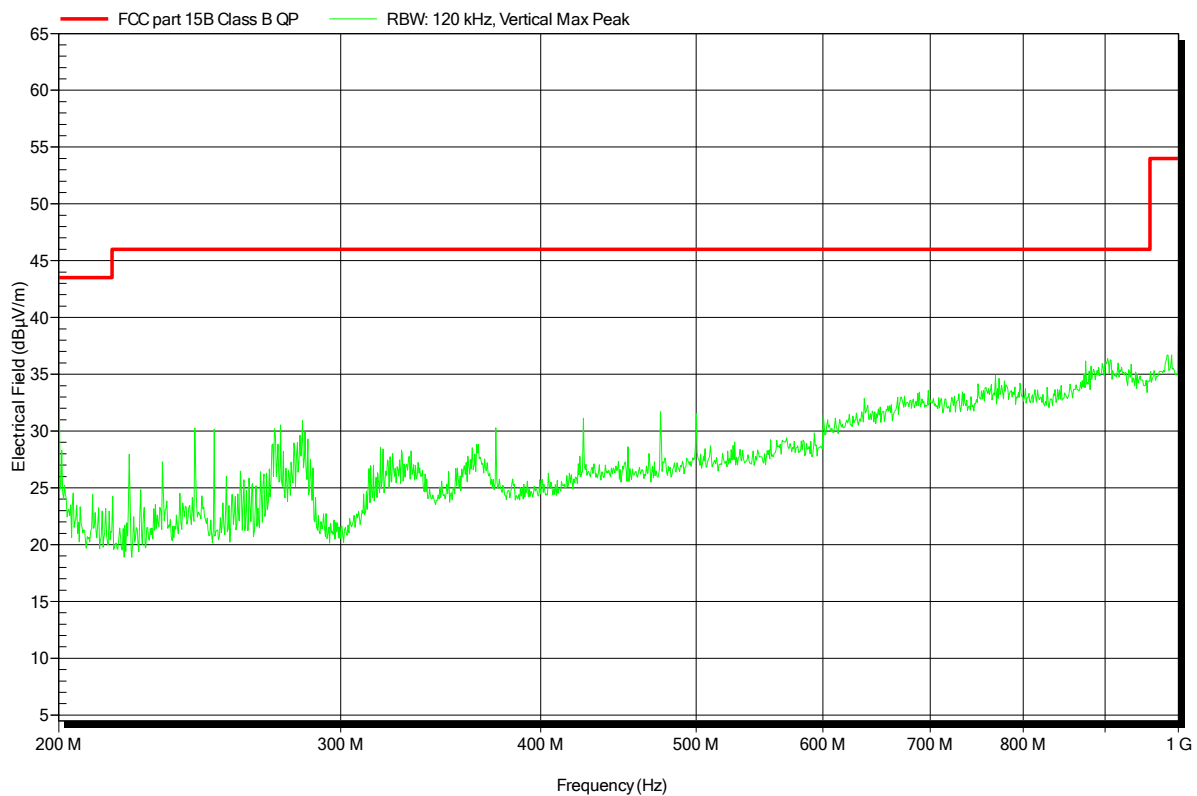
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Index 33

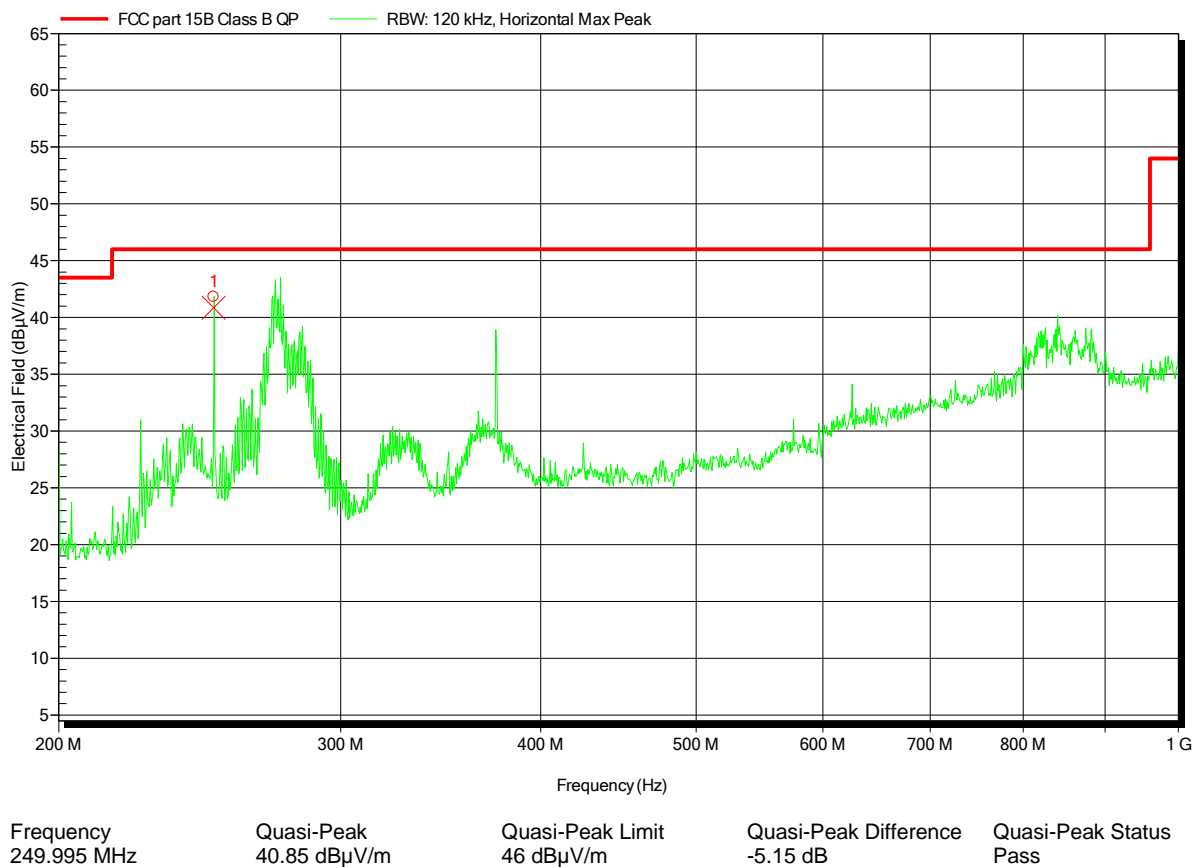


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Index 34



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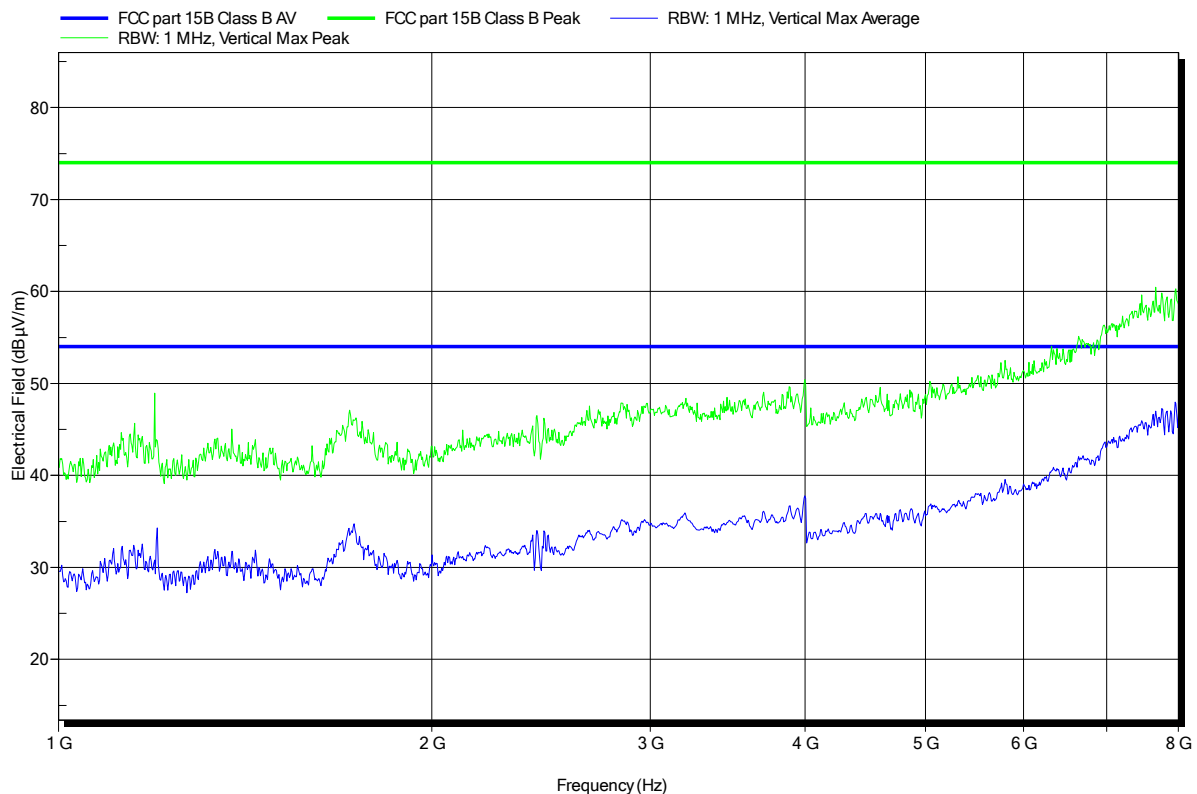
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 Operator: Mr. Belz  
 Test Conditions: Tnom: 23°C, Unom: + 24 VDC  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3m  
 Mode: LAN aktiv  
 Test Date: 2015-03-20  
 Note:

Index 25

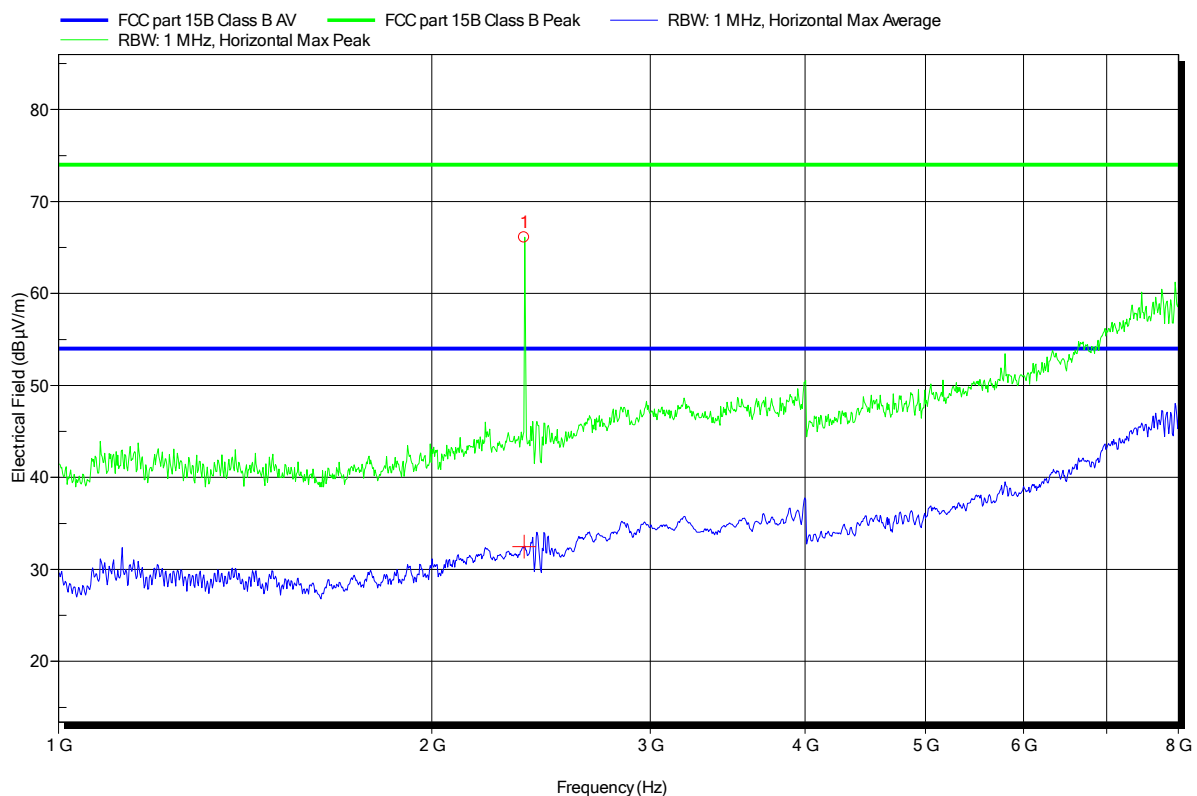


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Index 26



Frequency	Average	Average Limit	Average Difference	Average Status
2.375 GHz	32.46 dBµV/m	54 dBµV/m	-21.54 dB	Pass (WLAN)

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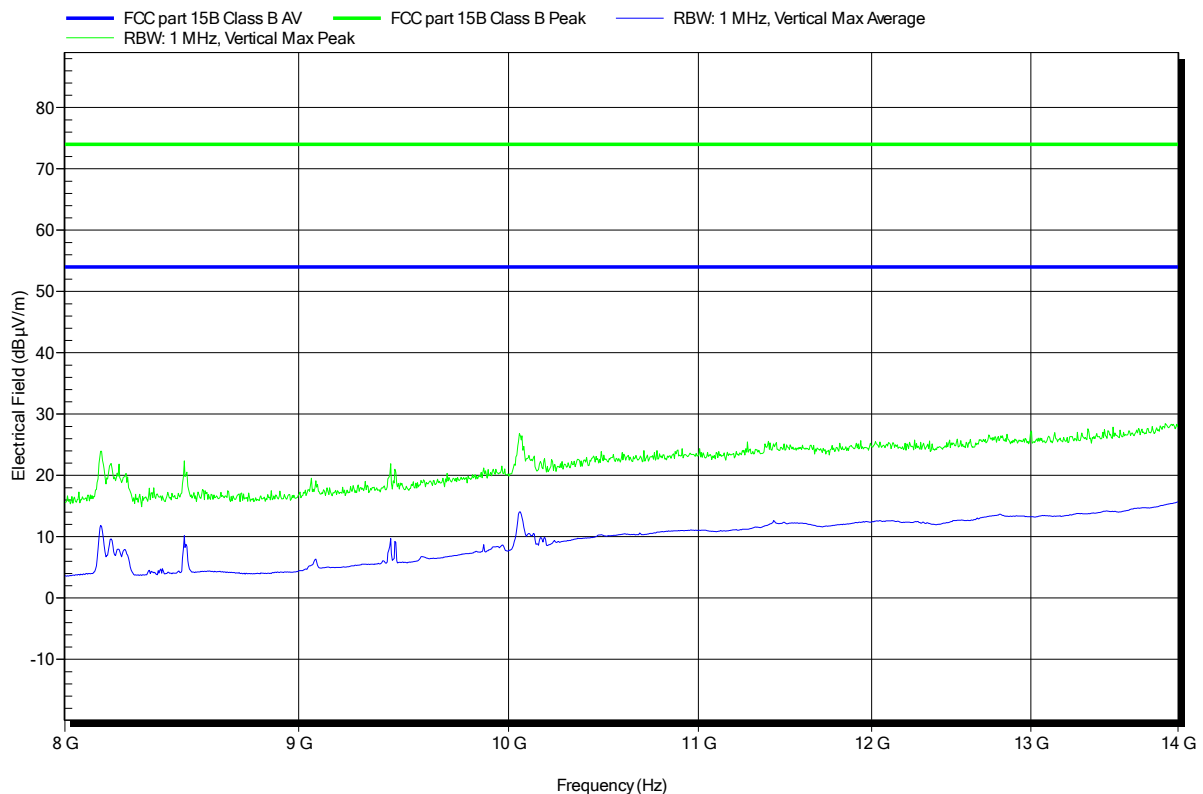
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Index 21



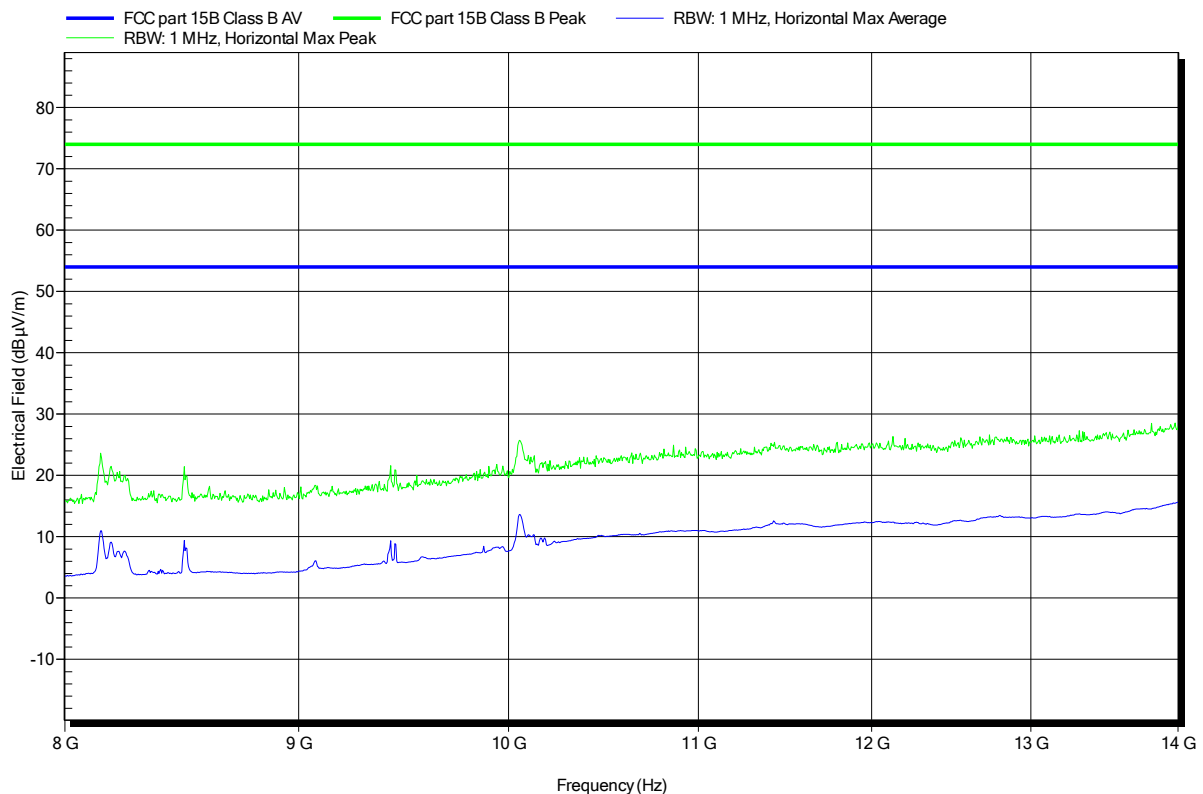


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Index 23

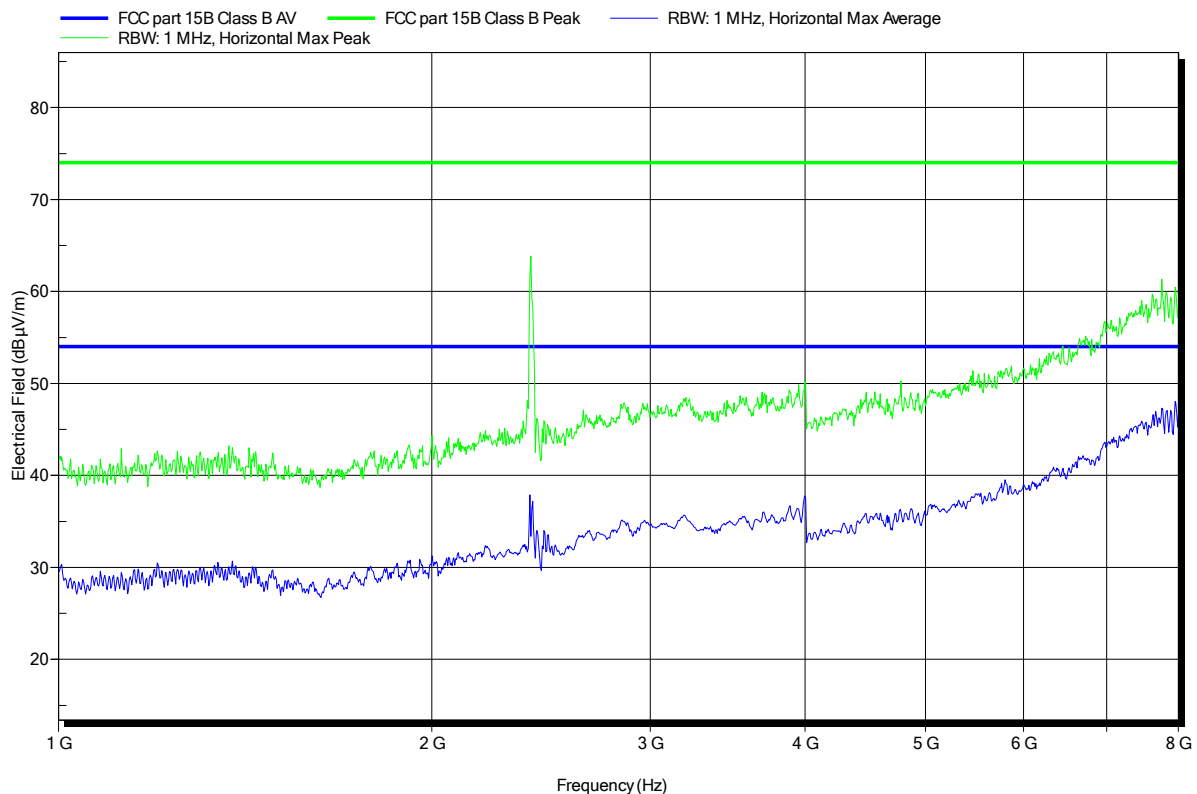


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Index 27

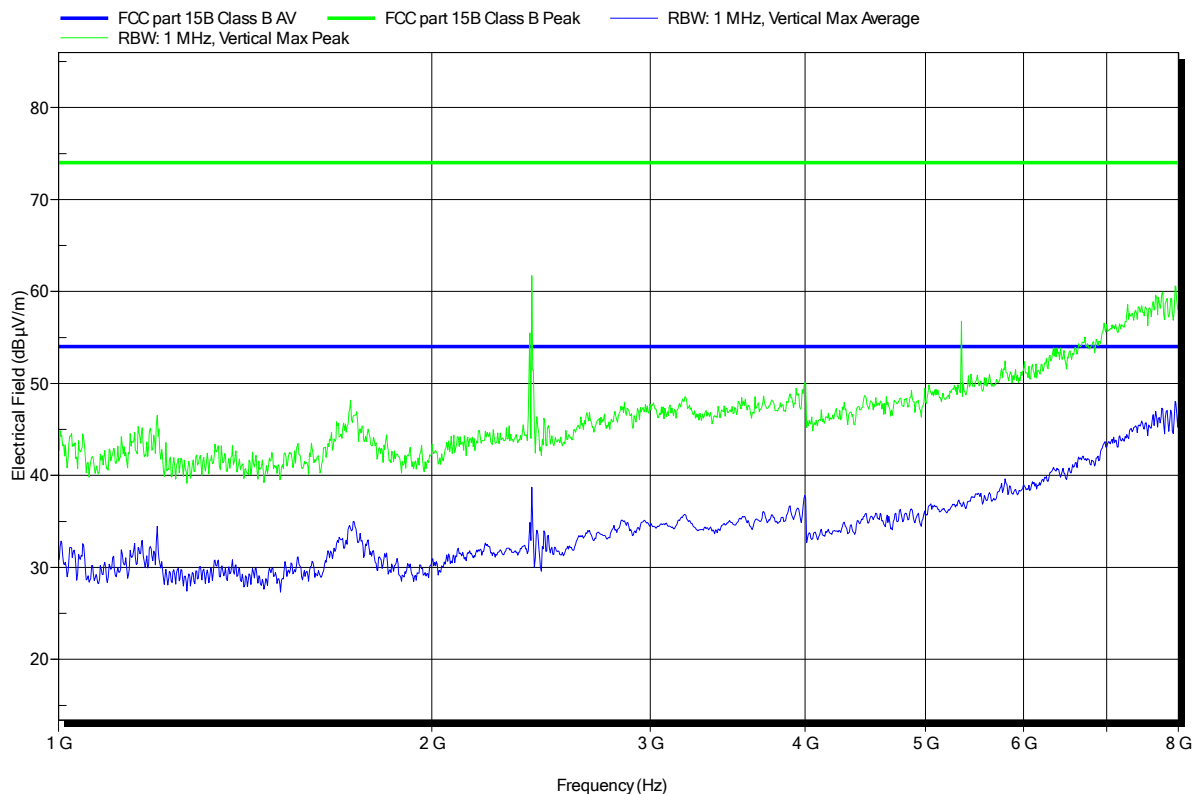


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Index 28



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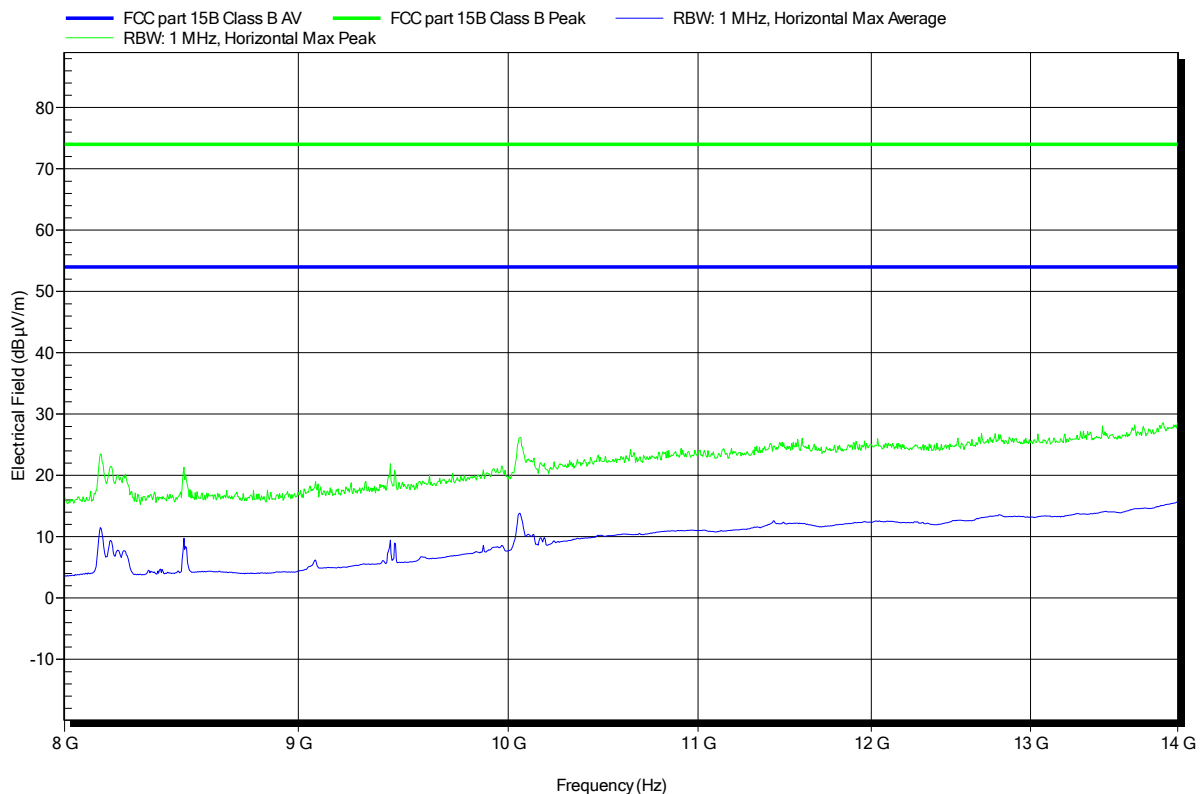
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Index 22



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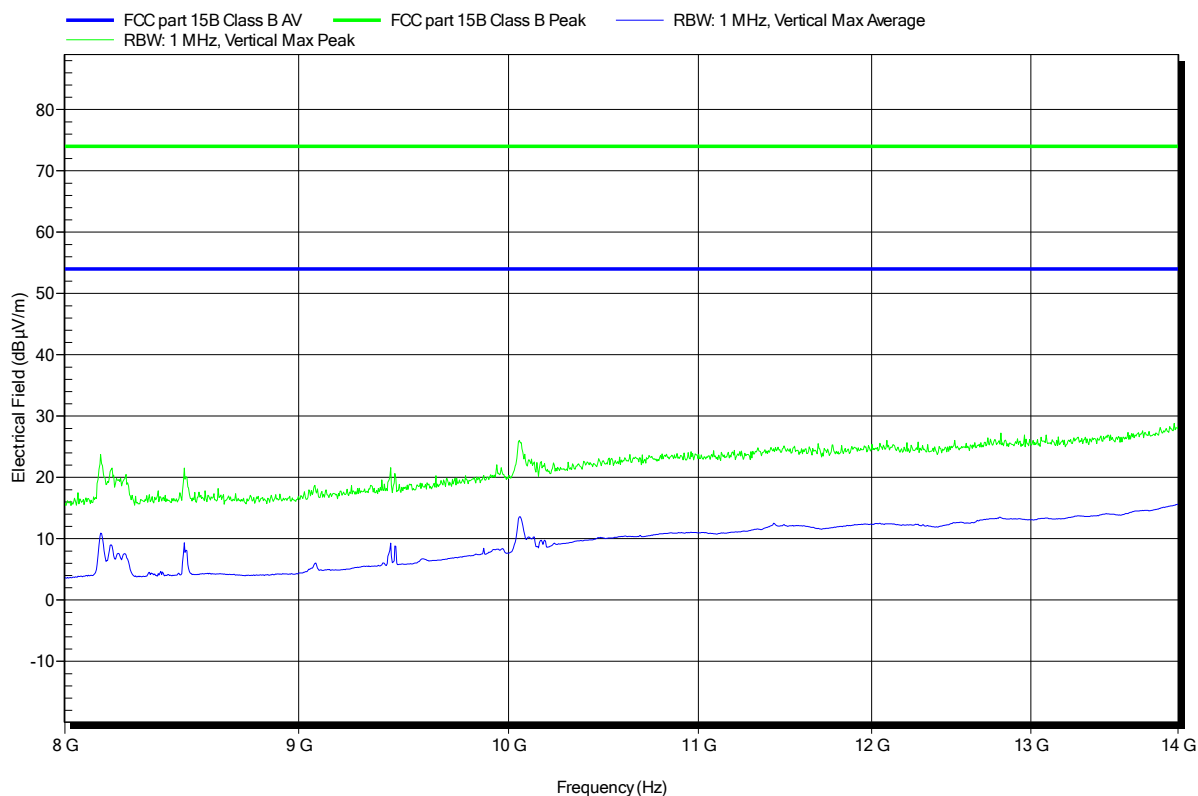
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Index 24



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### 3.2 Test Conditions and Results – AC power line conducted emissions

Conducted emissions acc. FCC 47 CFR 15.107 / IC RSS-Gen			Verdict: PASS	
Laboratory Parameters:		Required prior to the test	During the test	
Ambient Temperature		15 to 35 °C	23°C	
Relative Humidity		30 to 60 %	32%	
Test according referenced standards		Reference Method		
		ANSI C63.4		
Fully configured sample scanned over the following frequency range		Frequency range		
		0.15 MHz to 30 MHz		
Sample is tested with respect to the requirements of the equipment class		Equipment class		
		Class B		
Points of Application		Application Interface		
AC Mains		LISN		
Operating mode		3		
Configuration		1		
Limits and results Class B				
Frequency [MHz]	Quasi-Peak [dBµV]	Result	Average [dBµV]	Result
0.15 to 5	66 to 56*	PASS	56 to 46*	PASS
0.5 to 5	56	PASS	46	PASS
5 to 30	60	PASS	50	PASS
Comments:				
* Limit decreases linearly with the logarithm of the frequency.				



**Test Procedure:**

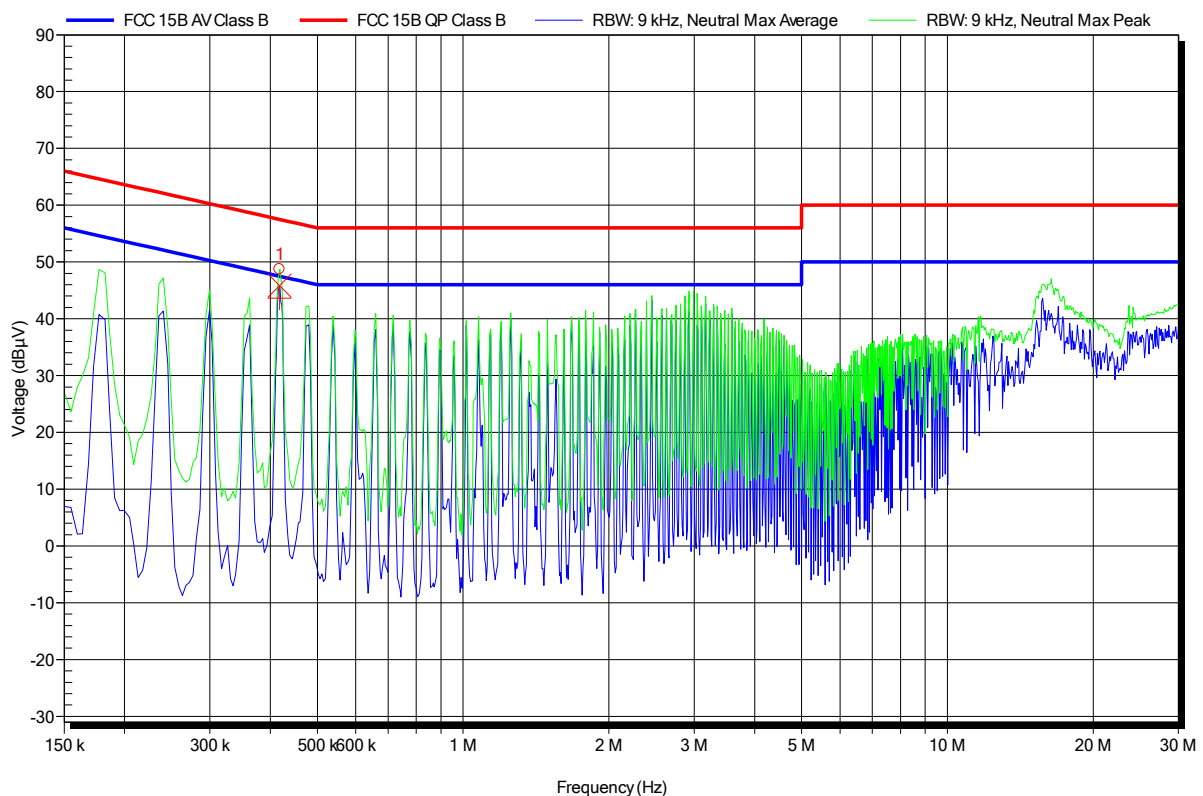
- 1) The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2009 item 7.3.1)
- 2) The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.
- 3) The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length).
- 4) The LISN measurement port was connected to a measurement receiver
- 5) I/O cables were bundled not longer than 0.4 m
- 6) Measurement was performed in the frequency range 0.15 – 30MHz on each current-carrying conductor

## EMI voltage test in the ac-mains according to FCC 15B

Project number: G0M-1411-4293

Manufacturer: AED Engineering  
 EUT Name: CAN-WLAN Gateway RH  
 Model: GN1001A  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Belz  
 Test Conditions: Tnom: 23°C, Unom: 24 VDC (from 120 VAC PS)  
 LISN: ESH2-Z5 N  
 Mode: WLAN, LAN aktiv  
 Test Date: 2015-03-16  
 Note:

Index 3



Frequency 417.75 kHz	Quasi-Peak 45.85 dBμV	Quasi-Peak Limit 57.49 dBμV	Quasi-Peak Difference -11.64 dB	Quasi-Peak Status Pass
Frequency 417.75 kHz	Average 43.62 dBμV	Average Limit 47.49 dBμV	Average Difference -3.87 dB	Average Status Pass

Test Report No.: G0M-1411-4293-EF0115B-V01

Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

**EMI voltage test in the ac-mains according to FCC 15B**

Project number: G0M-1411-4293

Manufacturer:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Belz
Test Conditions:	Tnom: 23°C, Unom: 24 VDC (from 120 VAC PS)
LISN:	ESH2-Z5 L
Mode:	WLAN, LAN aktiv
Test Date:	2015-03-16
Note:	

Index 4

