

EMC TEST REPORT FCC 47 CFR Part 15B Industry Canada ICES-003 Electromagnetic compatibility - Unintentional radiators	
Report Reference No.	G0M-1503-4616-EF015B-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	<div style="text-align: center;">   </div> <p>A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A</p>
Applicant's name	Leica Microsystems (Schweiz) AG
Address	Max Schmidheiny-Strasse 201 9435 Heerbrugg SWITZERLAND
Test specification:	
Standard.....	47 CFR Part 15 Subpart B ICES-003, Issue 6:2016 ANSI C63.4:2014
Equipment under test (EUT):	
Product description	Stereo microscope with integrated camera
Model No.	EZ4 W
Additional Models	None
Hardware version	2.0
Firmware / Software version	None
Contains	FCC-ID: 2AEJM-EZ4W IC: 20232-EZ4W
Test result	Passed

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)

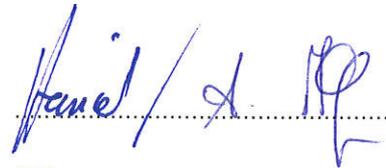
Testing:

Date of receipt of test item: 2015-04-07

Date (s) of performance of tests: 2017-02-02 - 2017-02-07

Compiled by: Matthias Handrik

Tested by (+ signature).....: Matthias Handrik /
Andreas Pflug



Approved by (+ signature): Jens Marquardt
Deputy Head of Lab



Date of issue: 2017-02-09

Total number of pages: 48

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.

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Additional comments:

Version History

Version	Issue Date	Remarks	Revised by
V01	2017-02-09	Initial Release	

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1 Equipment (Test item) Description

Description	Stereo microscope with integrated camera	
Model	EZ4 W	
Additional Models	None	
Serial number	None	
Hardware version	2.0	
Software / Firmware version	None	
Contains FCC-ID	N/A	
Contains IC	N/A	
Power supply	120V AC	
AC/DC-Adaptor	None	
Radio module	Type	WLAN module
	Model	HF-A11-1
	Manufacturer	High Flying Electronics
	HW Version	V3.1
	SW Version	V3.1
	SVN	unspecified
	FCC-ID	AZYHF-A11X
	IC	None
Manufacturer	Leica Instruments (Singapore) Pte Ltd 12 Teban Gardens Crescent 608924 Singapore Singapore	
Highest emission frequency	> 1000 MHz (up to 5th Harm)	
Device classification	Class A	
Equipment type	Tabletop	
Number of tested samples	1	

1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments (e.g. serial no.)
AE	Monitor	HP	HP2159	
AE	Laptop	DELL	Latitude E6420	
AE	Ethernet switch	Level one	FSW-0508TX	AC/DC adaptor: DV-751AUP

***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 (e.g. Cat. of Cable)
1	Power	AC	-	no	
2	HDMI	I/O	2	Yes	
	USB	I/O	2	Yes	
3	Ethernet	I/O	2	Yes	Cat6

***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	Stereo microscope stream live picture via HDMI to monitor and stream via WLAN the video from microscope to laptop, microscope light: bottom "ON", top "ON" 50%.
2	Stereo microscope stream life picture via HDMI to monitor and stream via USB the video from microscope to laptop, microscope light: bottom "ON", top "ON" 50%.
3	Stereo microscope stream life picture via HDMI to monitor and stream via Ethernet the video from microscope to laptop, microscope light: bottom "ON", top "ON" 50%.

Configuration #	EUT Configuration
USB	EUT powered up, connect with USB to laptop, and connect with HDMI to monitor. Live stream of picture from microscope to laptop and monitor
Ethernet	EUT powered up, connect with Ethernet to laptop, and connect with HDMI to monitor. Live stream of picture from microscope to laptop and monitor
WLAN	EUT powered up, connect with WLAN to laptop, and connect with HDMI to monitor. Live stream of picture from microscope to laptop and monitor

1.7 Test Equipment Used During Testing

Measurement Software			
Description	Manufacturer	Name	Version
EMC Test Software	Dare Instruments	Radimation	2015.1.12

Radiated emissions – 3m Chamber					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Biconical Antenna	R&S	HK 116	EF00012	2016-05	2019-05
LPD-Antenne	R&S	HL 223	EF00187	2016-05	2019-05
Horn antenna	Schwarzbeck	BBHA 9120D	EF00018	2016-09	2019-09
MXE EMI Receiver	Keysight Technologies	N9038A-526/WXP	EF01070	2016-08	2017-08
RF Cable			-	System Cal.	System Cal
RF Cable			-	System Cal.	System Cal

Conducted emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Artificial mains network	R&S	ESH2-Z5	EF00182	2017-01	2019-01
AMN	Schwarzbeck	NSLK 8128	EF00975	2015-12	2017-12
EMI Test Receiver	R&S	ESR7	EF00943	2016-10	2017-10
EMI Test Receiver	Keysight	N9038A-526	EF01070	2016-08	2017-08
Cable	-	RG58/U	-	System Cal.	System Cal.

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 μ 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 μ V/m). The FCC limits are given in units of μ V/m. The following formula is used to convert the units of μ V/m to dB μ 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:

$$\begin{array}{rclcl} \text{Reading} & + & \text{AF} & = & \text{Net Reading} & : & \text{Net reading - FCC limit} & = & \text{Margin} \\ 21.5 \text{ dB}\mu\text{V} & + & 26 \text{ dB} & = & 47.5 \text{ dB}\mu\text{V/m} & : & 47.5 \text{ dB}\mu\text{V/m} - 57.0 \text{ dB}\mu\text{V/m} & = & -9.5 \text{ dB} \end{array}$$

2 Result Summary

FCC 47 CFR Part 15B, Industry Canada ICES-003				
Product Specific Standard	Requirement – Test	Reference Method	Result	Remarks
47 CFR 15.109 ICES-003 Item 6.2	Radiated emissions	ANSI C 63.4	PASS	
47 CFR 15.107 ICES-003 Item 6.1	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 / ICES-003				Verdict: PASS		
Laboratory Parameters:		Required prior to the test		During the test		
Ambient Temperature		15 to 35 °C		20°C		
Relative Humidity		30 to 60 %		35%		
Test according referenced standards		Reference Method				
		ANSI C63.4				
Sample is tested with respect to the requirements of the equipment class		Equipment class				
		Class A				
Test frequency range determined from highest emission frequency		Highest emission frequency				
		> 1000 MHz (up to 5th Harm)				
Fully configured sample scanned over the following frequency range		Frequency range				
		30 MHz to 13 GHz				
Operating mode		1/2/3				
Configuration		USB / WLAN / Ethernet				
Limits and results Class A						
Frequency [MHz]	Quasi-Peak [dBµV/m]	Result	Average [dBµV/m]	Result	Peak [dBµV/m]	Result
30 – 88	39	PASS	-		-	-
88 – 216	43.5	PASS	-		-	-
216 – 960	46.5	PASS	-		-	-
960 – 1000	49.5	PASS	-		-	-
> 1000	-	-	49.5	PASS	69.5	PASS
Comments:						

Test Procedure:

The test site is in accordance with ANSI C63-4:2014 requirements and is listed by FCC.
The measurement procedure is as follows:

Exploratory measurement:

- The EUT was placed on a non-conductive table at a height of 0.8m.
- The EUT and support equipment, if needed, were set up to simulate typical usage.
- Cables, of type and length specified by the manufacturer, were connected to at least one port of each type and were terminated by a device or simulating load of actual usage.
- The antenna was placed at a distance of 3 or 10 m.
- The received signal was monitored at the measurement receiver.
 - Cables not bundled were manipulated within the range of likely arrangements to produce the highest emission amplitude
 - To maximize the suspected emissions the EUT is rotated 360 degrees. If the signal exceeds the previous amplitude, go back to the corresponding azimuth and manipulate the cables again for maximizing the emissions if possible.
 - Move the antenna from 1 to 4m to maximize the suspected highest amplitude signal.
- This procedure has to be performed in both antenna polarizations, horizontal and vertical.
- The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 1.3.

Final measurement:

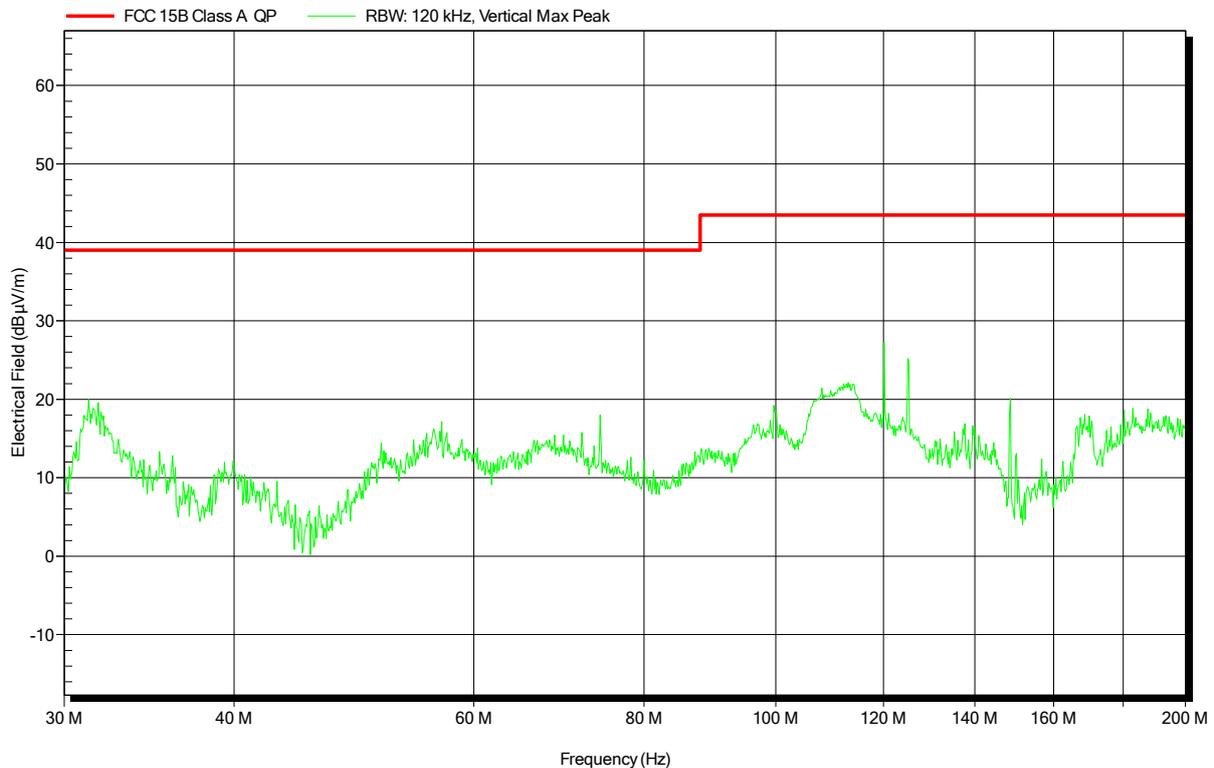
- The EUT was placed on a 0.8 m non-conductive table at a 3 m distance from the receive antenna. The antenna output was connected to the measurement receiver
- A biconical antenna was used for the frequency range 30 – 200 MHz, a logarithmic periodical antenna was used for the frequency range from 200 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast
- The EUT and cable arrangement were based on the exploratory measurement results
- Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded.
- The test data of the worst-case conditions were recorded and shown on the next pages.

Spurious emissions under normal conditions according to FCC Part 15b

Project number: G0M-1503-4616

Applicant:	Leica Microsystems (Schweiz) AG
EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Unom:
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m converted to 10 m
Mode:	Mode #1
Test Date:	2017-02-02
Note:	260°; 1m

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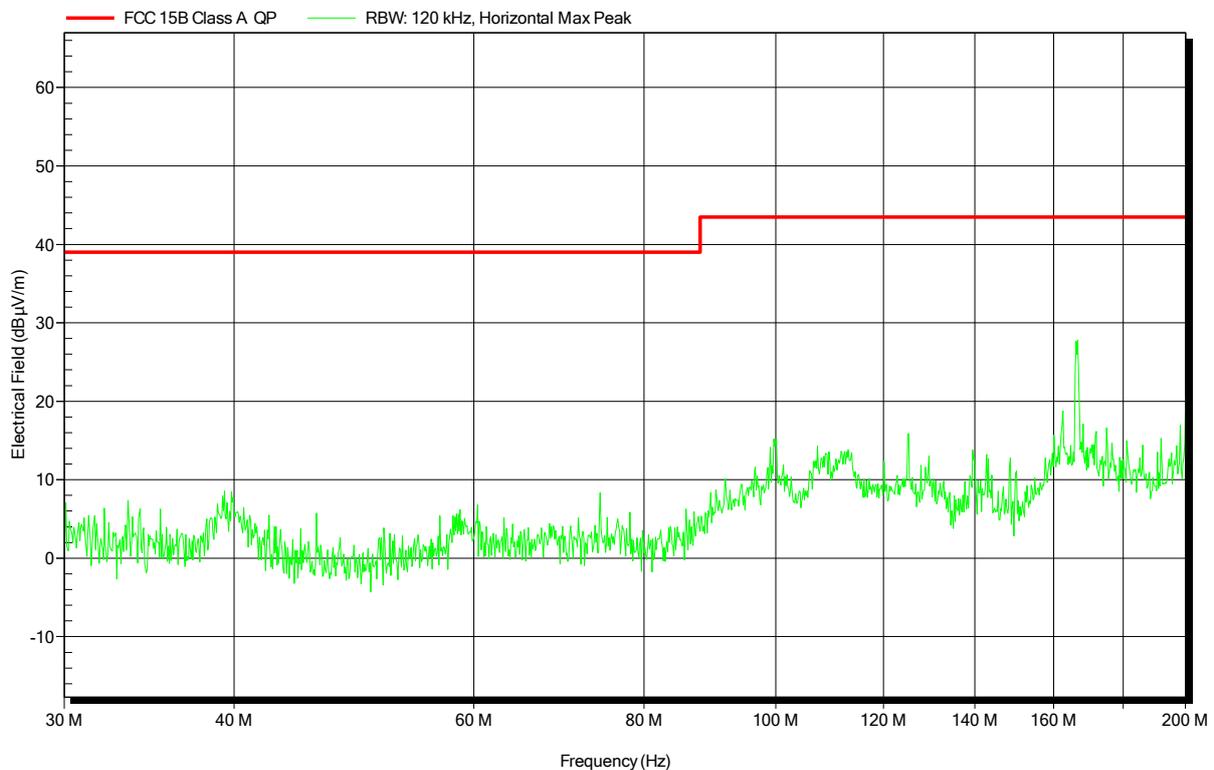


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Applicant:	Leica Microsystems (Schweiz) AG
EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Unom:
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m converted to 10 m
Mode:	Mode #1
Test Date:	2017-02-02
Note:	150°, 2m

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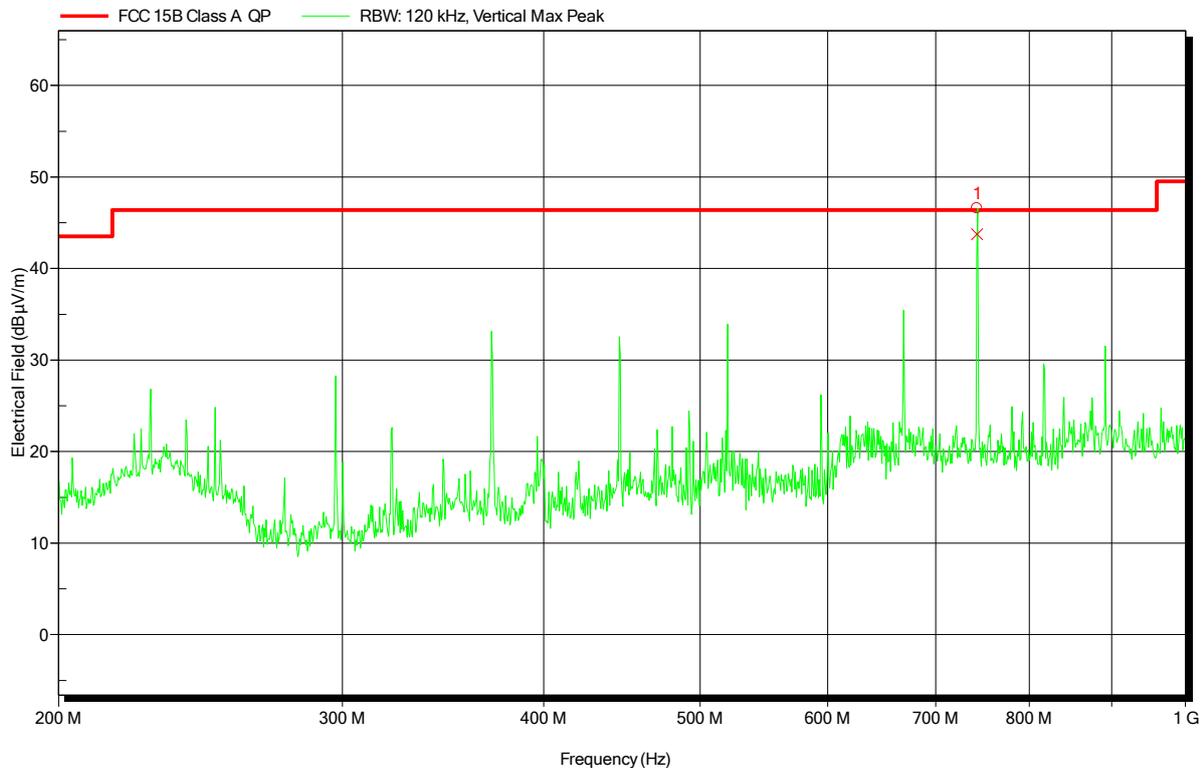


Spurious emissions under normal conditions according to FCC Part 15b

Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG
 EUT Name: Stereo microscope with integrated camera
 Model: EZ4 W
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Unom:
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m converted to 10 m
 Mode: Mode #1
 Test Date: 2017-02-02
 Note: 335°, 1m

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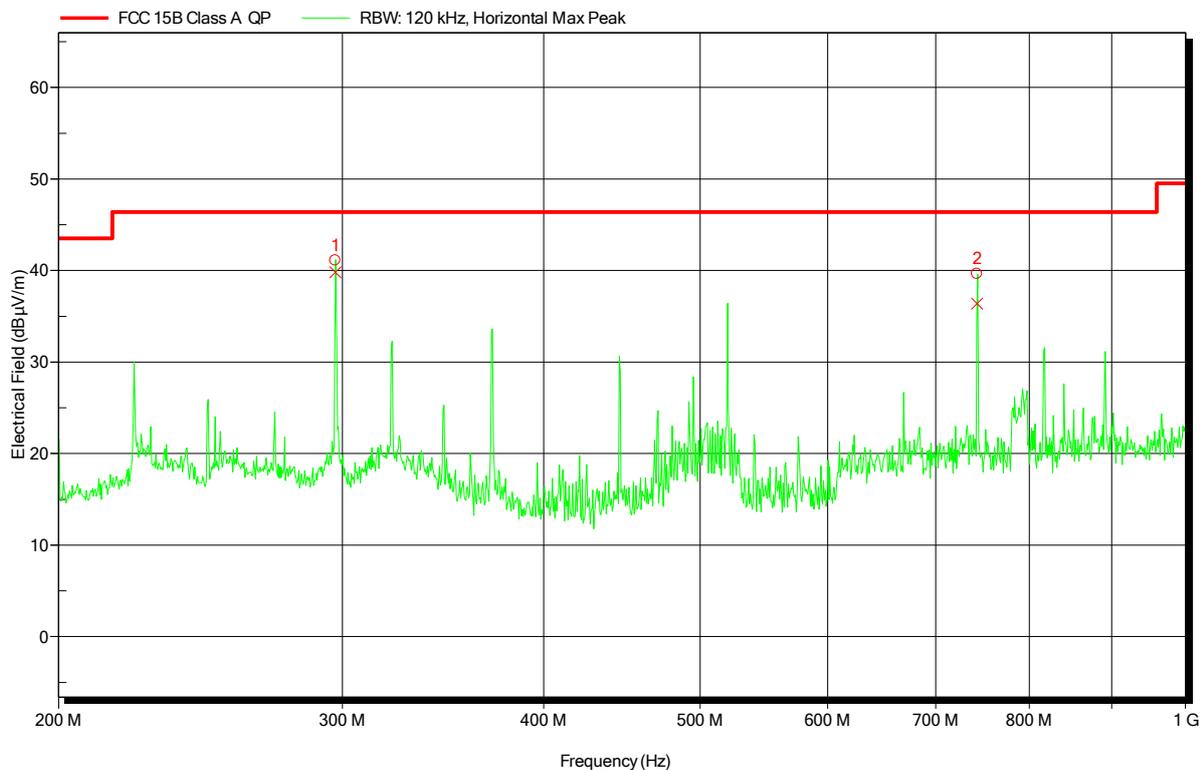
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	742.502 MHz	43.74 dBµV/m	46.4 dBµV/m	-2.66 dB	Pass	0 Degree	1 m

Spurious emissions under normal conditions according to FCC Part 15b

Project number: G0M-1503-4616

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 EUT Name: Stereo microscope with integrated camera
 Model: EZ4 W
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Unom:
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m converted to 10 m
 Mode: Mode #1
 Test Date: 2017-02-02
 Note: 320°; 1.2m

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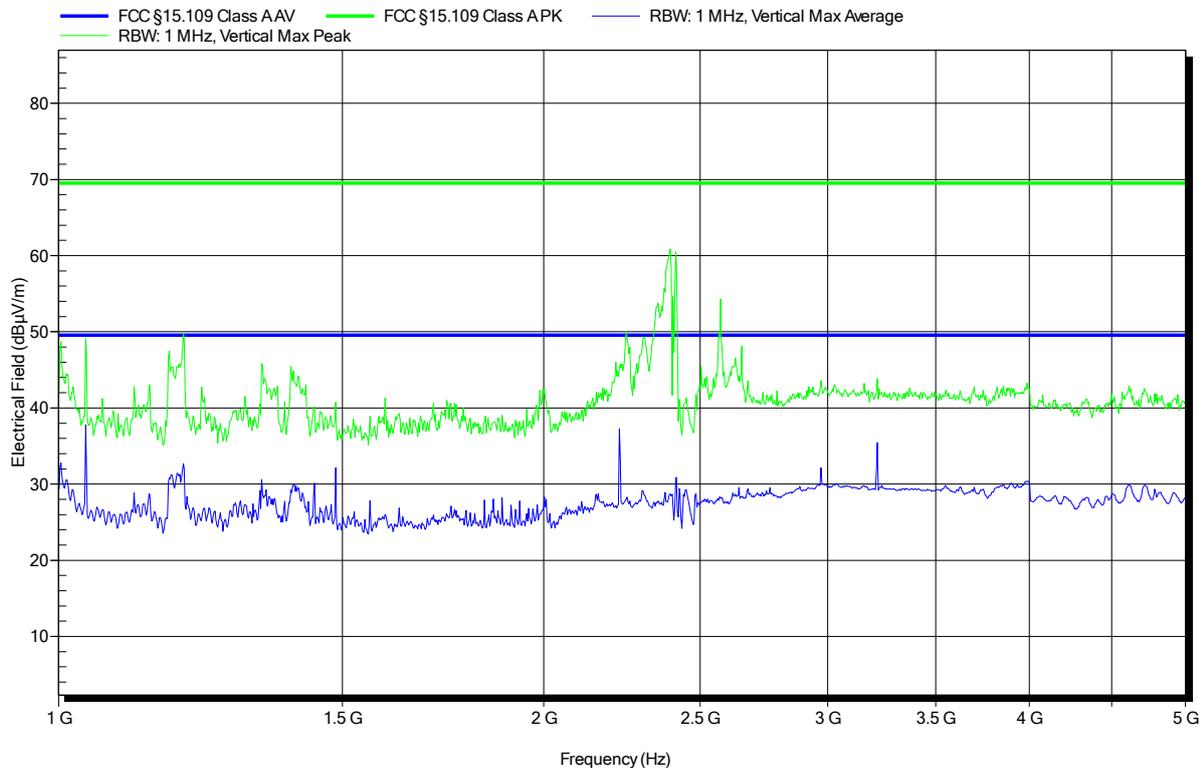
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	296.995 MHz	39.82 dBµV/m	46.4 dBµV/m	-6.58 dB	Pass	0 Degree	1 m
2	742.49 MHz	36.39 dBµV/m	46.4 dBµV/m	-10.01 dB	Pass	0 Degree	1 m

Spurious emissions under normal conditions according to FCC Part 15b

Project number: G0M-1503-4616

Applicant:	Leica Microsystems (Schweiz) AG
EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Unom:
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	Mode #1
Test Date:	2017-02-02
Note:	216°; 1m

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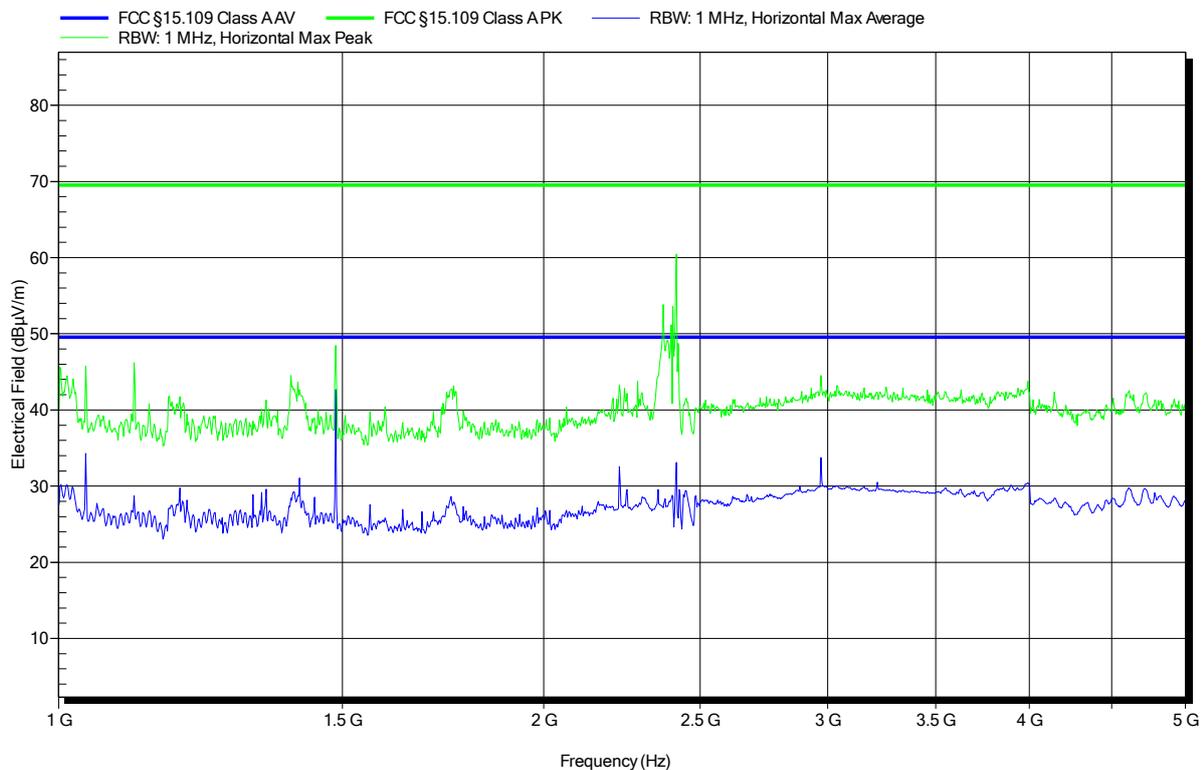


Spurious emissions under normal conditions according to FCC Part 15b

Project number: G0M-1503-4616

Applicant:	Leica Microsystems (Schweiz) AG
EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Unom:
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	Mode #1
Test Date:	2017-02-02
Note:	264°: 1.5m

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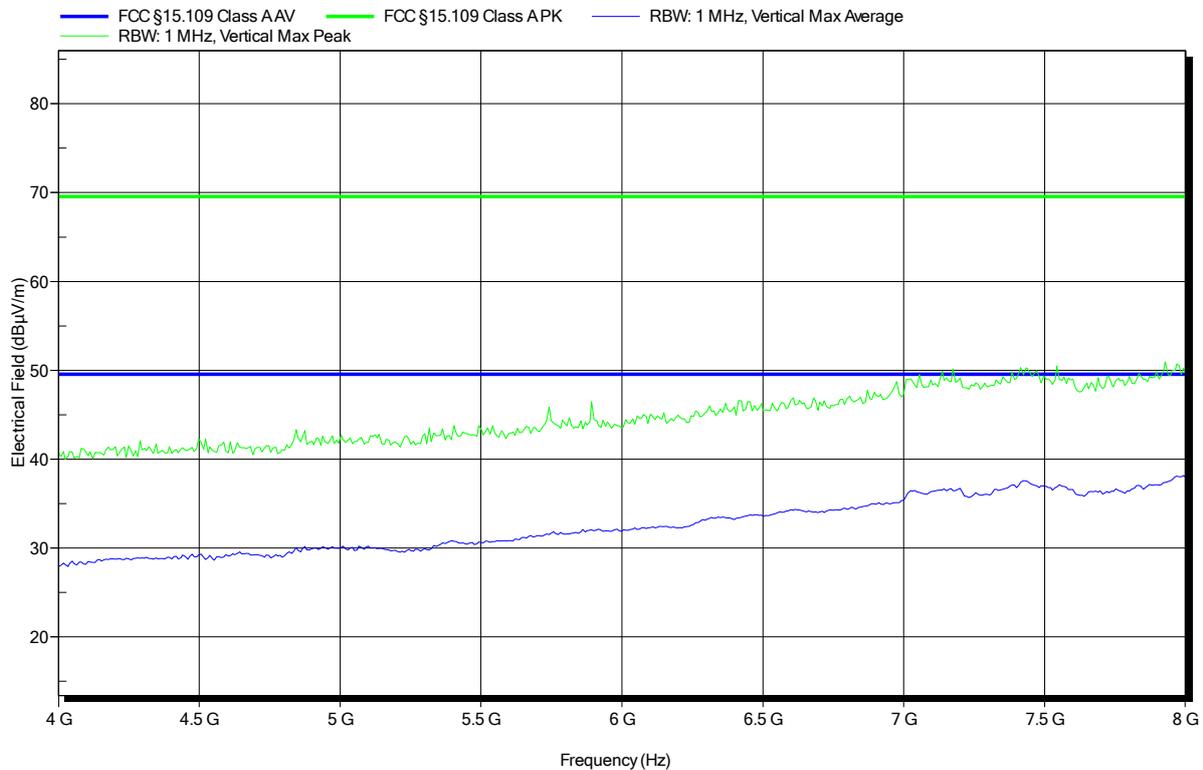


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EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Vnom:
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	Mode #1
Test Date:	2017-02-07
Note:	

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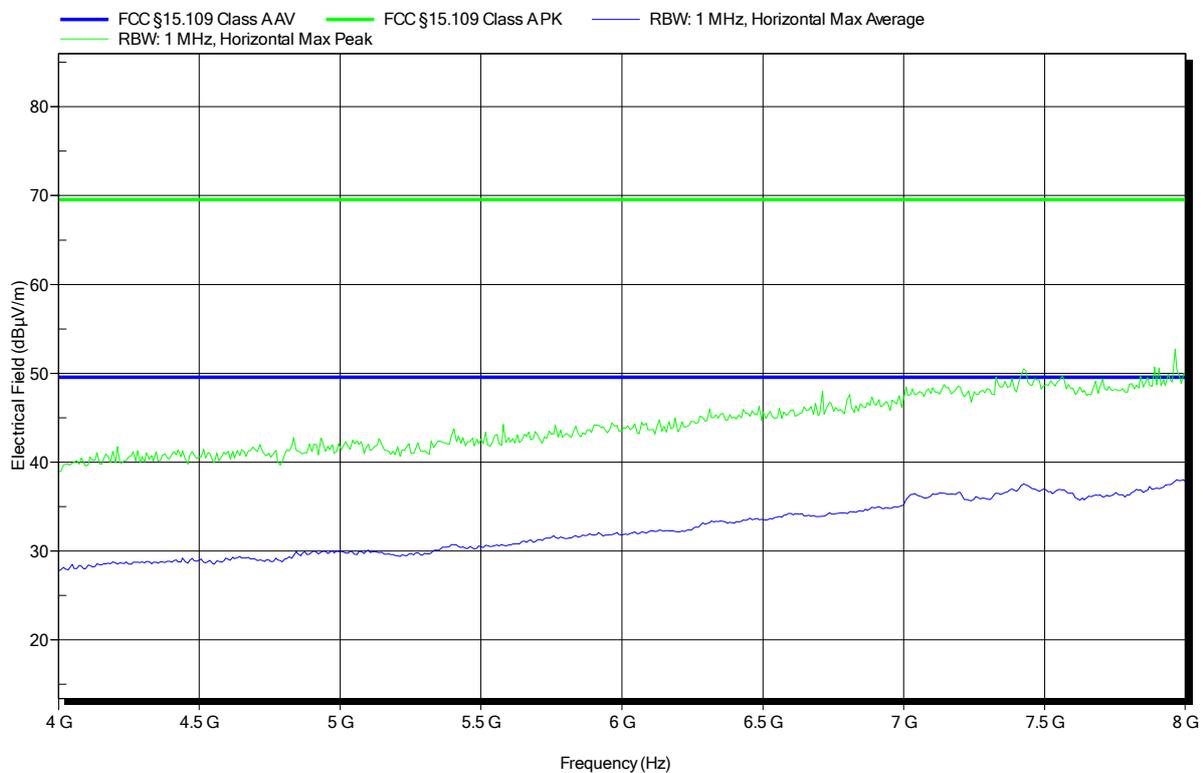


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EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Vnom:
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	Mode #1
Test Date:	2017-02-07
Note:	

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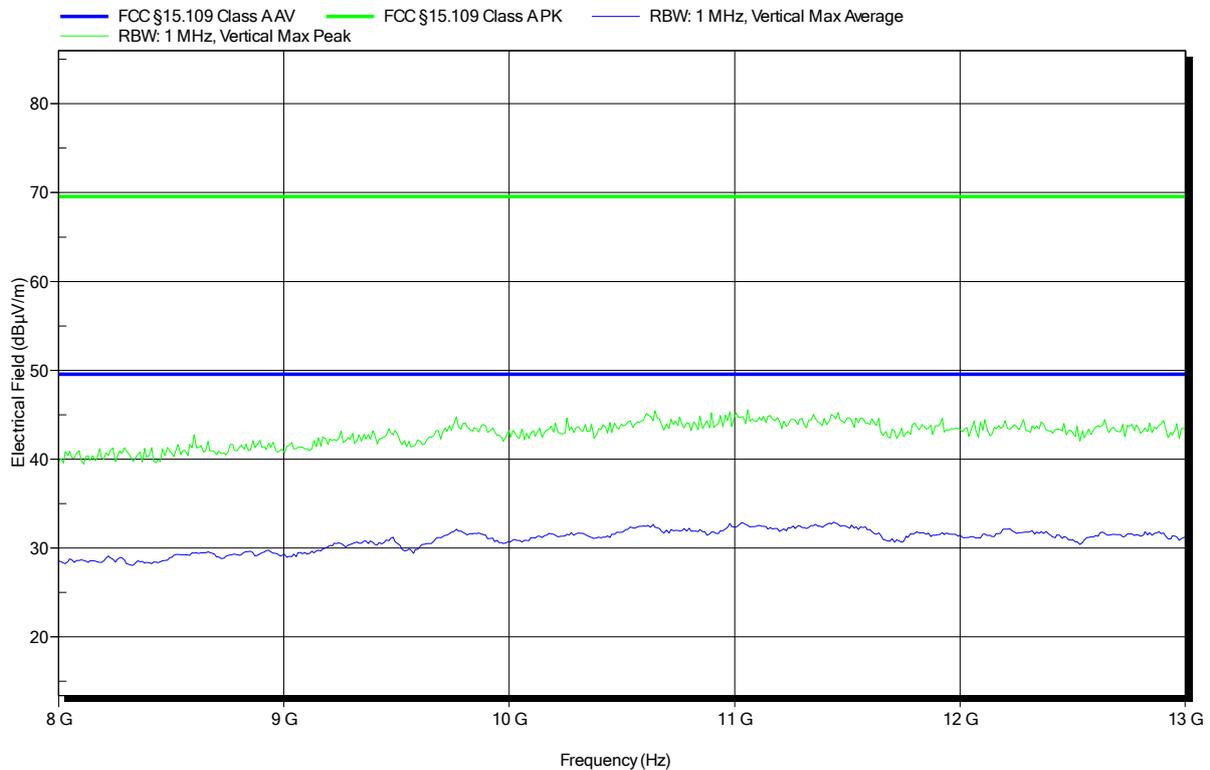


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Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Vnom:
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3m
Mode:	Mode #1
Test Date:	2017-02-07
Note:	

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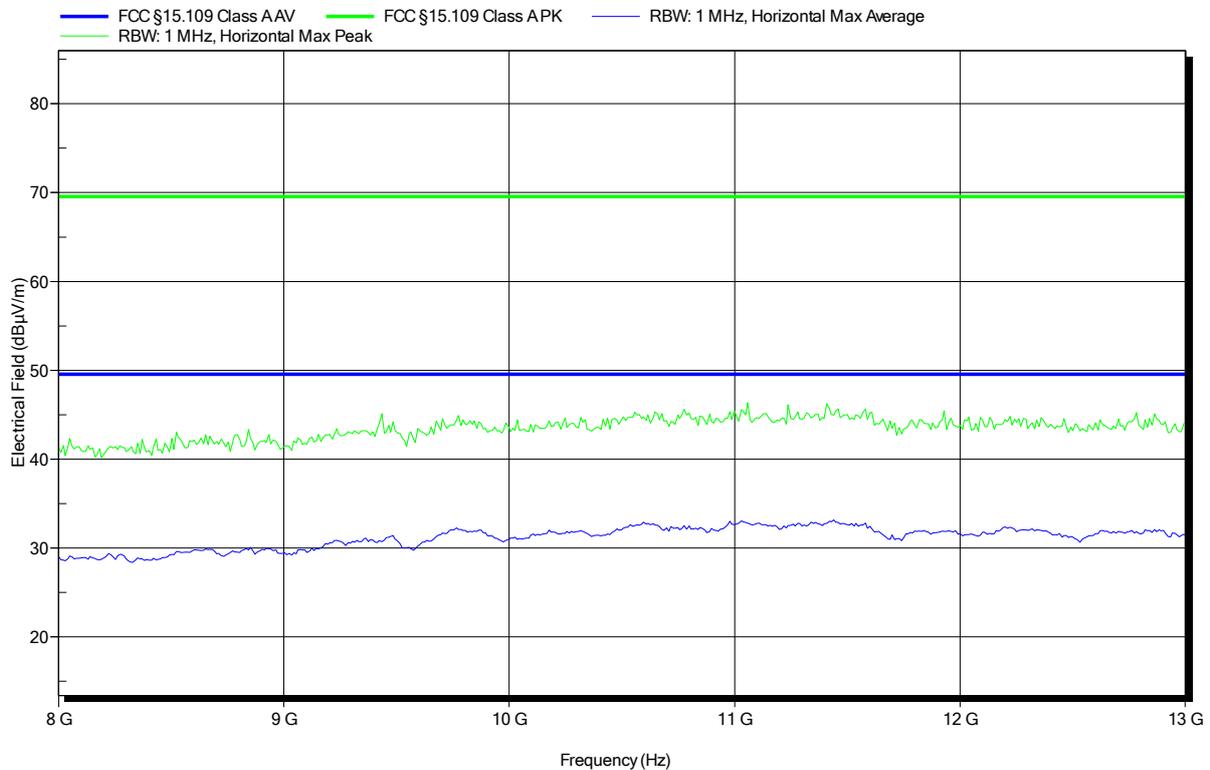


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Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Vnom:
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3m
Mode:	Mode #1
Test Date:	2017-02-07
Note:	

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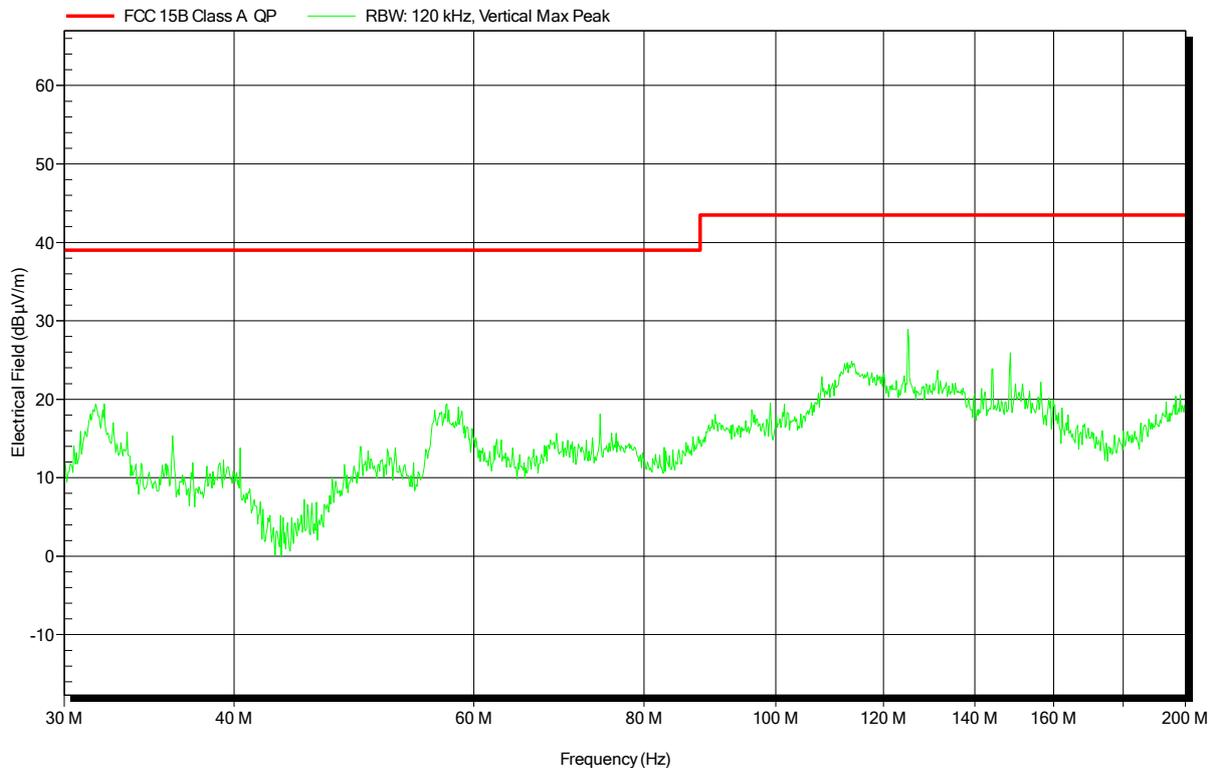


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Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Unom:
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m converted to 10 m
Mode:	Mode #2
Test Date:	2017-02-02
Note:	345°; 1m

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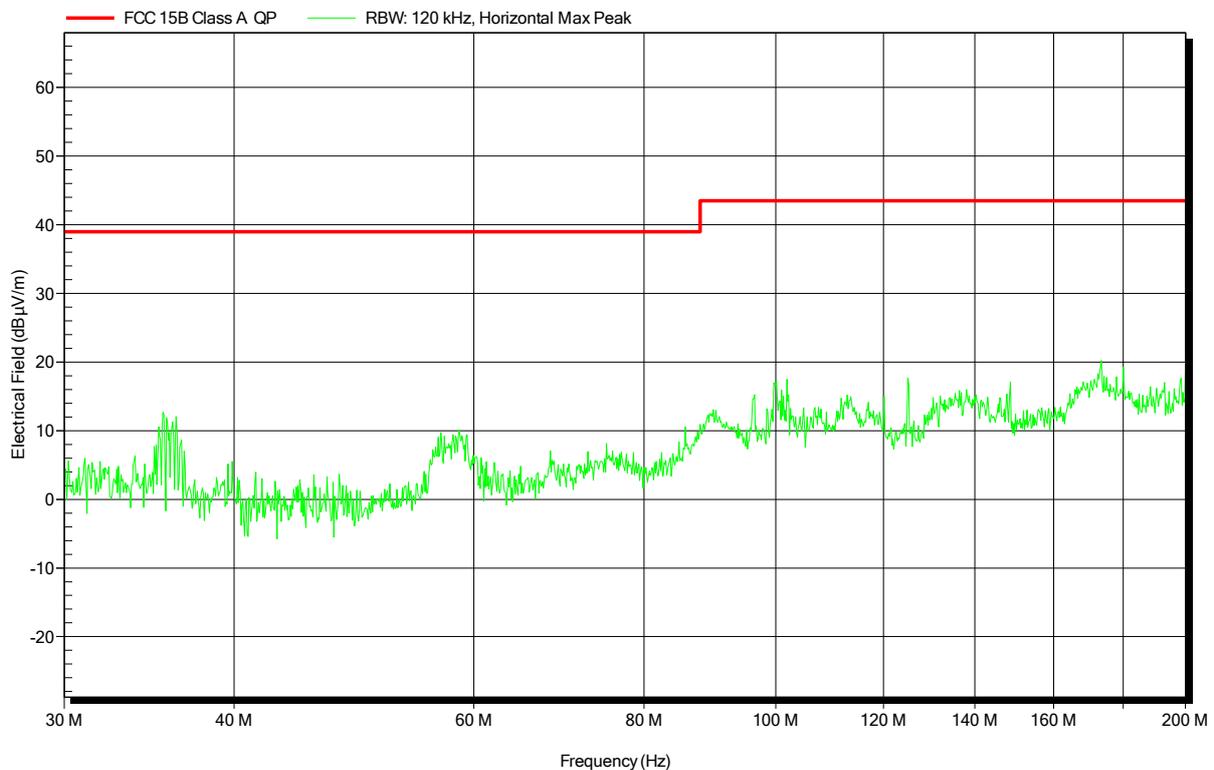


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Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Unom:
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m converted to 10 m
Mode:	Mode #2
Test Date:	2017-02-02
Note:	73°; 200m

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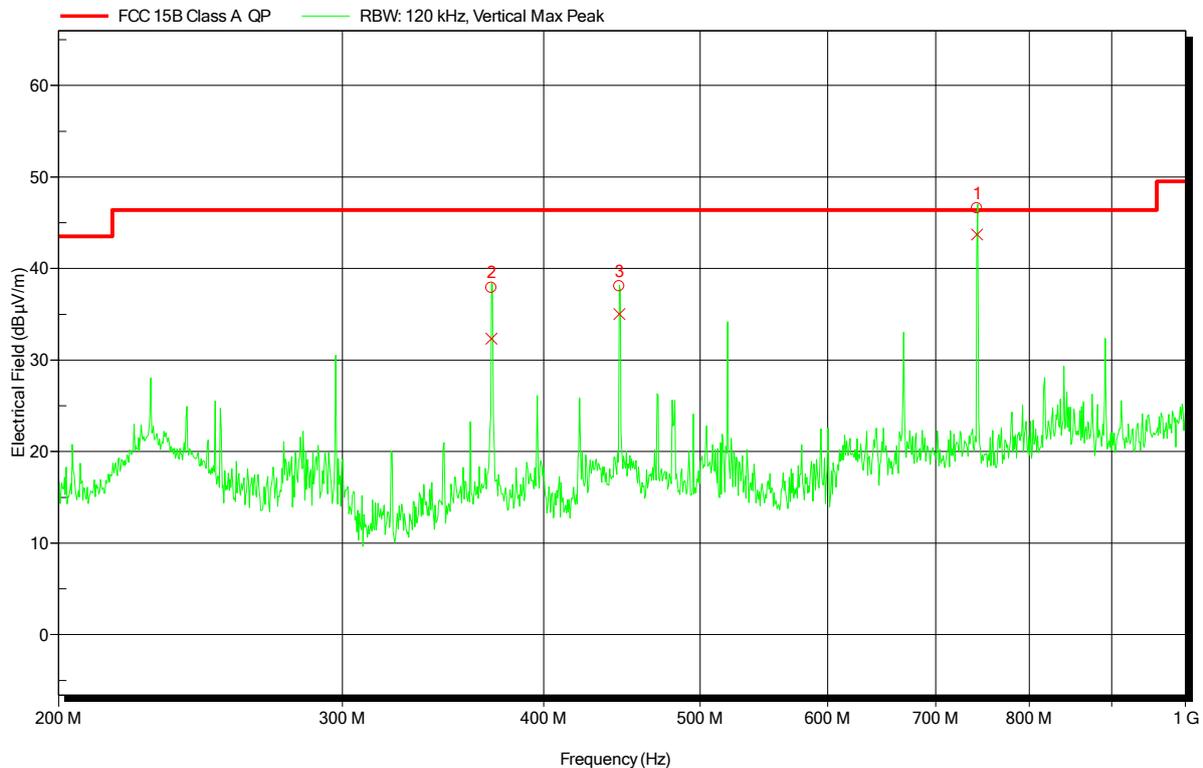


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 Operator: Mr. Handrik
 Test Conditions: Tnom: 20°C, Unom:
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m converted to 10 m
 Mode: Mode #2
 Test Date: 2017-02-02
 Note: 355°; 1m

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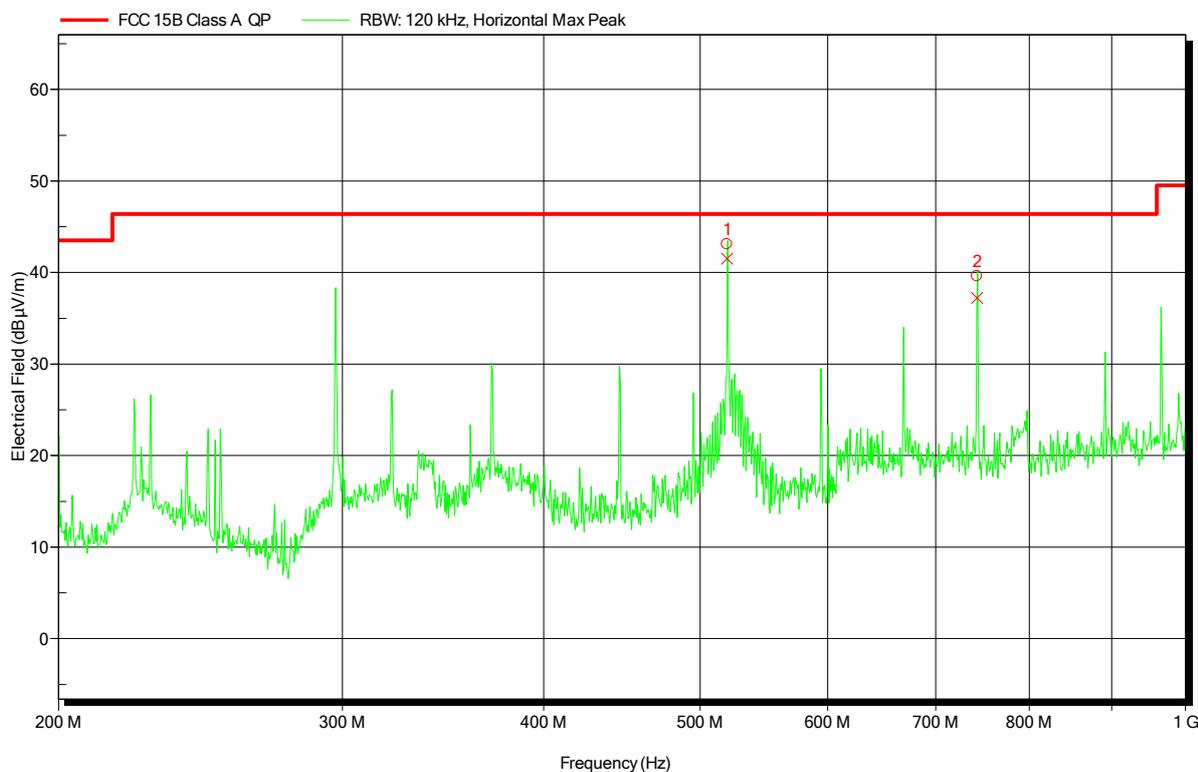
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	742.52 MHz	43.73 dBµV/m	46.4 dBµV/m	-2.67 dB	Pass	0 Degree	1 m
2	371.27 MHz	32.32 dBµV/m	46.4 dBµV/m	-14.08 dB	Pass	0 Degree	1 m
3	445.484 MHz	35.02 dBµV/m	46.4 dBµV/m	-11.38 dB	Pass	0 Degree	1 m

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 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m converted to 10 m
 Mode: Mode #2
 Test Date: 2017-02-02
 Note: 47°; 1m

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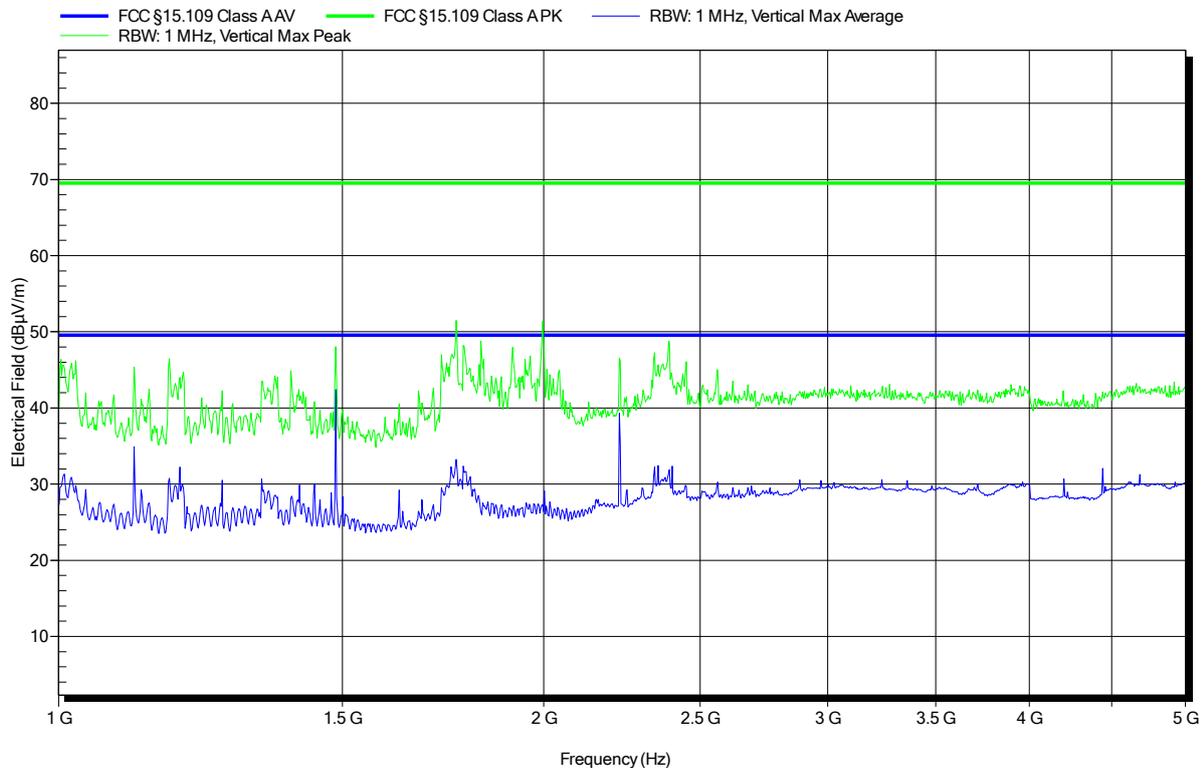
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	519.75 MHz	41.51 dBµV/m	46.4 dBµV/m	-4.89 dB	Pass	0 Degree	1 m
2	742.5 MHz	37.23 dBµV/m	46.4 dBµV/m	-9.17 dB	Pass	0 Degree	1 m

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Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	Mode #2
Test Date:	2017-02-02
Note:	180°; 1m

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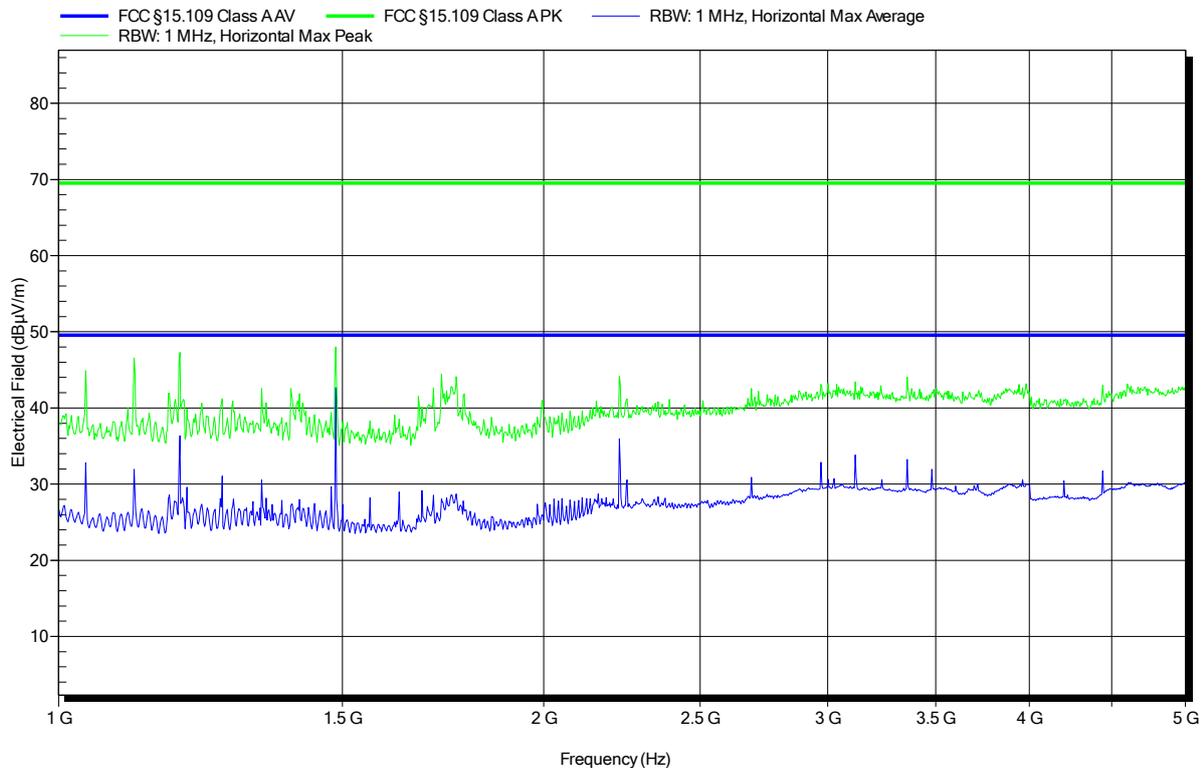


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Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	Mode #2
Test Date:	2017-02-02
Note:	150°; 1m

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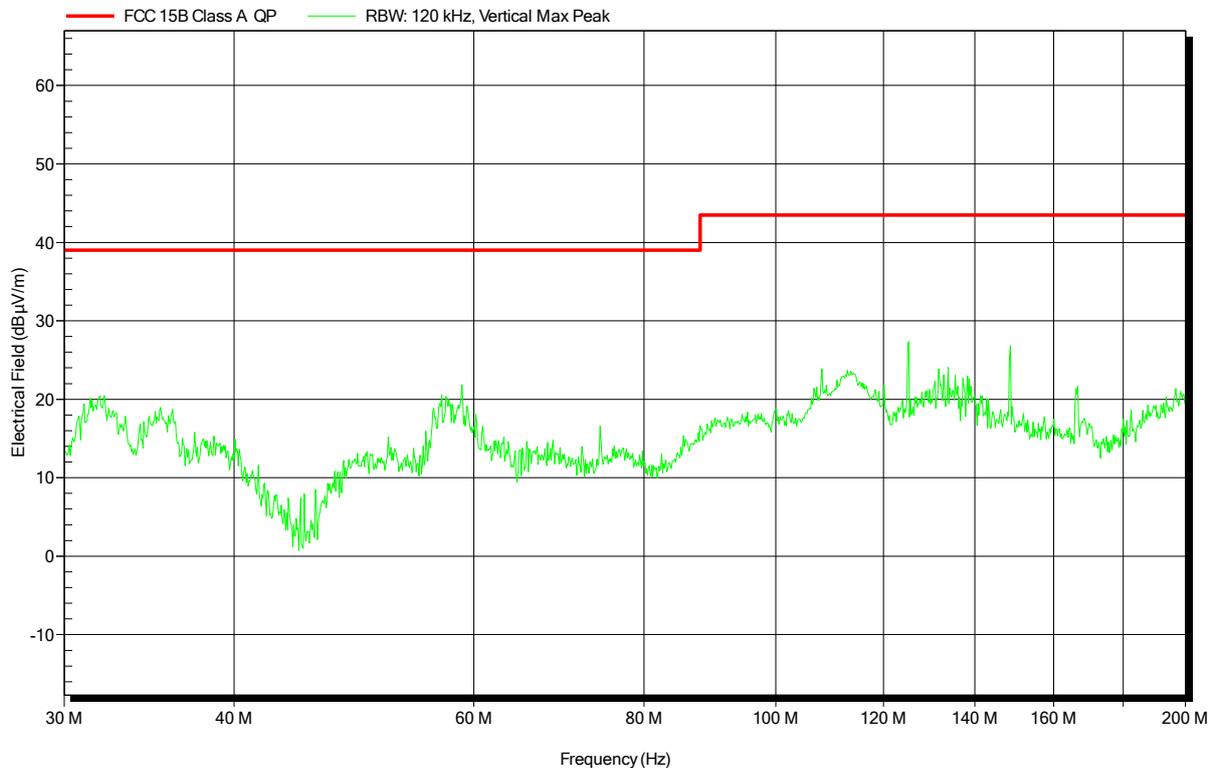


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Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Unom:
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m converted to 10 m
Mode:	Mode #3
Test Date:	2017-02-02
Note:	310°; 1m

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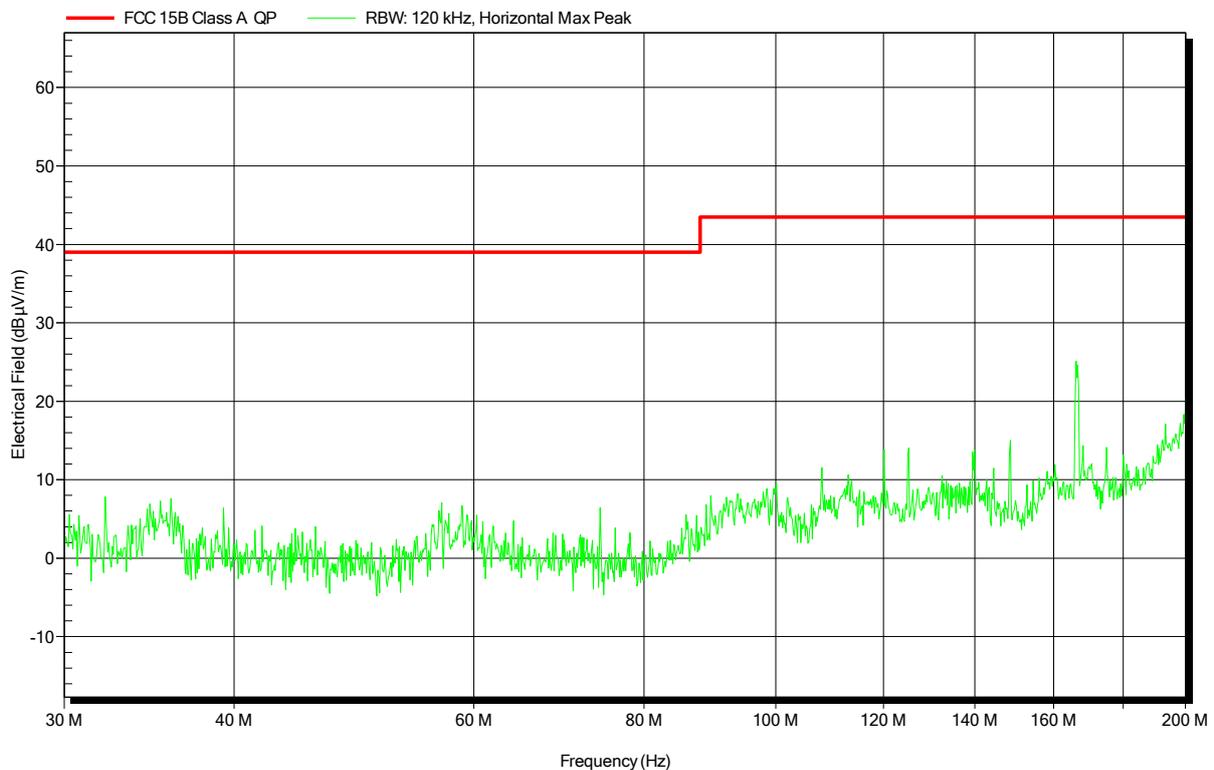


Spurious emissions under normal conditions according to FCC Part 15b

Project number: G0M-1503-4616

Applicant:	Leica Microsystems (Schweiz) AG
EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Unom:
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m converted to 10 m
Mode:	Mode #3
Test Date:	2017-02-02
Note:	166°; 1m

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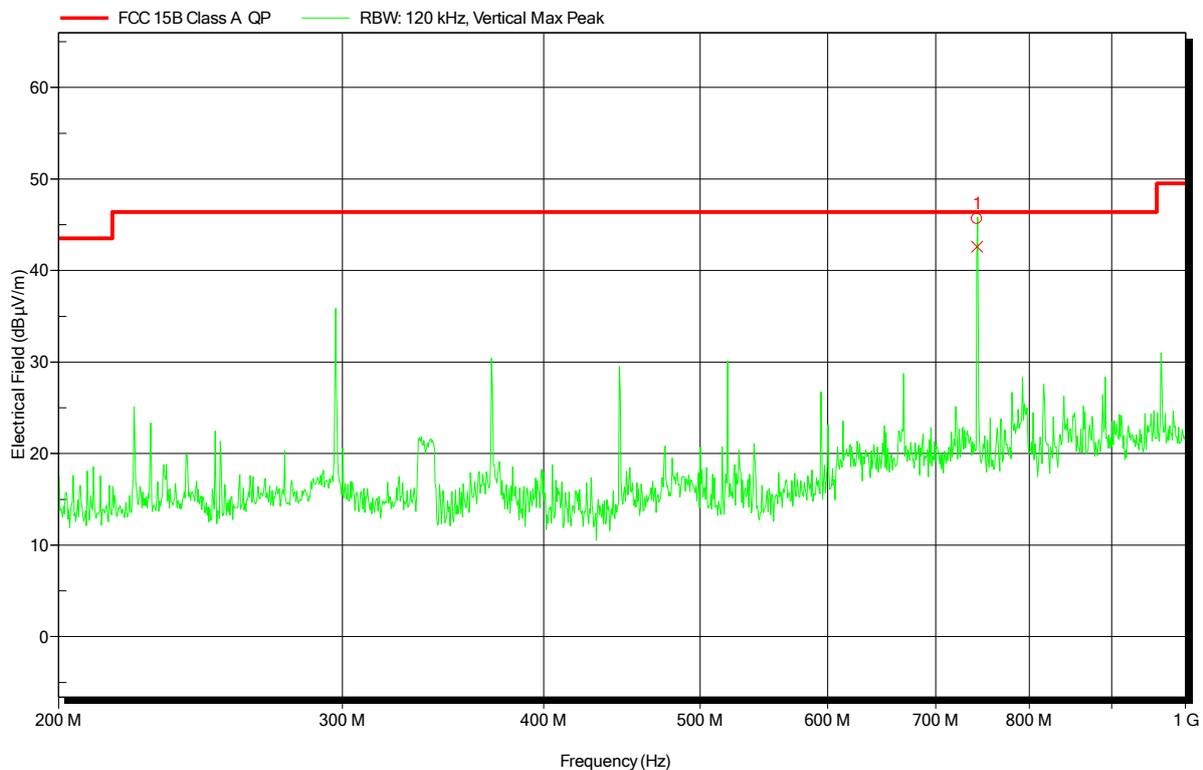


Spurious emissions under normal conditions according to FCC Part 15b

Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG
 EUT Name: Stereo microscope with integrated camera
 Model: EZ4 W
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 20°C, Unom:
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m converted to 10 m
 Mode: Mode #3
 Test Date: 2017-02-02
 Note: 220°; 1.30m

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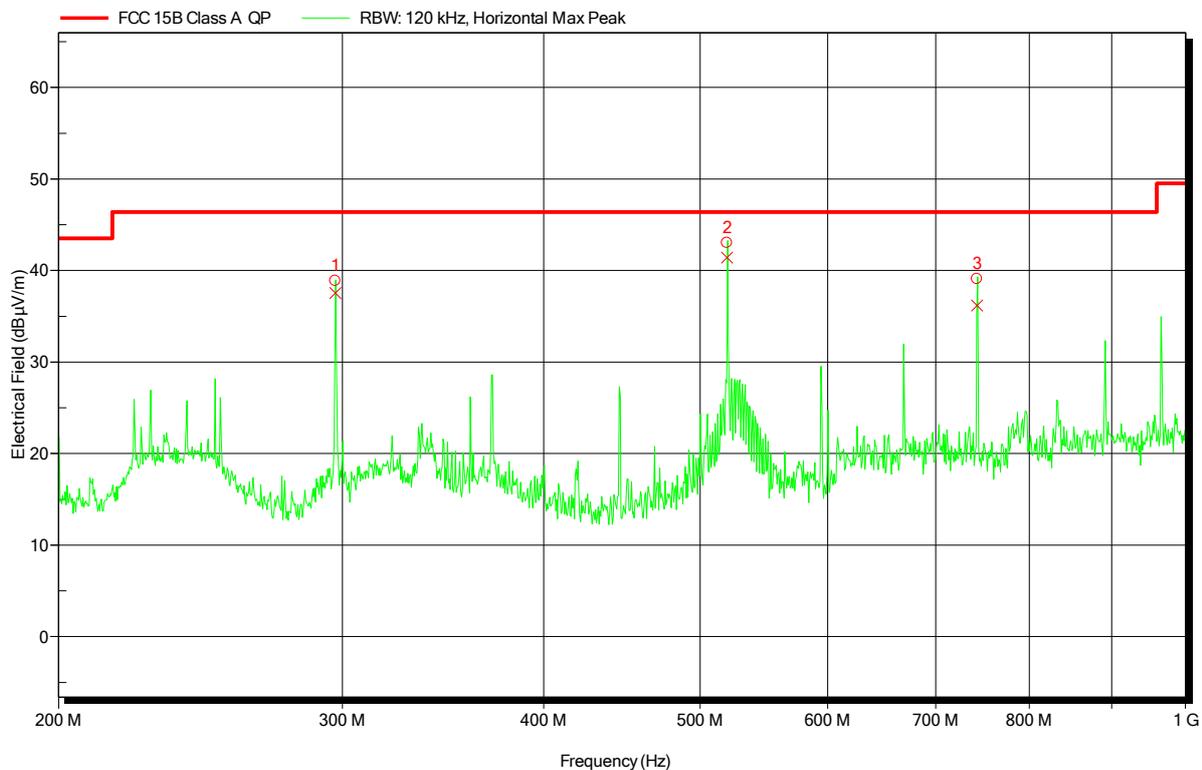
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	742.508 MHz	42.6 dBµV/m	46.4 dBµV/m	-3.8 dB	Pass	0 Degree	1 m

Spurious emissions under normal conditions according to FCC Part 15b

Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG
 EUT Name: Stereo microscope with integrated camera
 Model: EZ4 W
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 20°C, Unom:
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m converted to 10 m
 Mode: Mode #3
 Test Date: 2017-02-02
 Note: 47°; 1m

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Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	297 MHz	37.53 dBµV/m	46.4 dBµV/m	-8.87 dB	Pass	0 Degree	1 m
2	519.75 MHz	41.41 dBµV/m	46.4 dBµV/m	-4.99 dB	Pass	0 Degree	1 m
3	742.5 MHz	36.18 dBµV/m	46.4 dBµV/m	-10.22 dB	Pass	0 Degree	1 m

Test Report No.: G0M-1503-4616-EF015B-V01

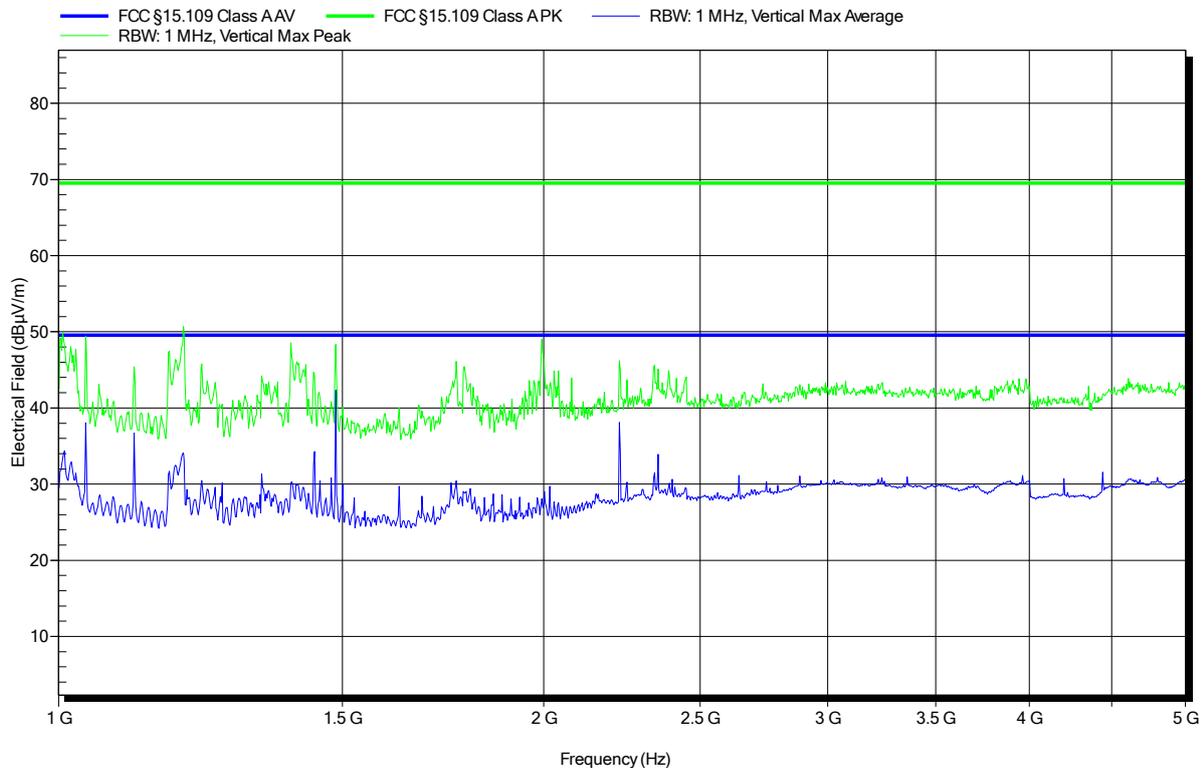
 Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions under normal conditions according to FCC Part 15b

Project number: G0M-1503-4616

Applicant:	Leica Microsystems (Schweiz) AG
EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Unom:
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	Mode #3
Test Date:	2017-02-02
Note:	200°; 1m

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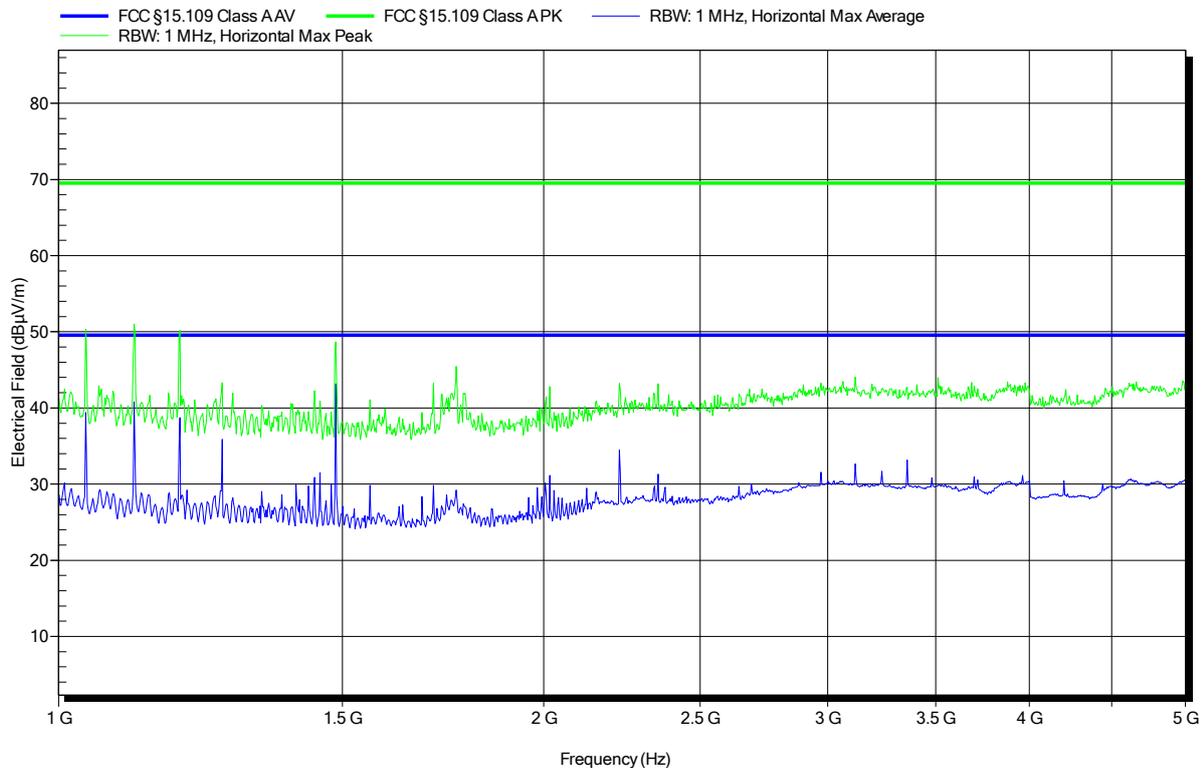


Spurious emissions under normal conditions according to FCC Part 15b

Project number: G0M-1503-4616

Applicant:	Leica Microsystems (Schweiz) AG
EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Unom:
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	Mode #3
Test Date:	2017-02-02
Note:	165°; 1m

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3.2 Test Conditions and Results – AC power line conducted emissions

Conducted emissions acc. FCC 47 CFR 15.107 / ICES-003			Verdict: PASS	
Laboratory Parameters:	Required prior to the test		During the test	
Ambient Temperature	15 to 35 °C		22°C	
Relative Humidity	30 to 60 %		36%	
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 A			
Points of Application	Application Interface			
AC Mains	LISN			
Operating mode	1/2/3			
Configuration	USB / WLAN / Ethernet			
Limits and results Class A				
Frequency [MHz]	Quasi-Peak [dB μ V]	Result	Average [dB μ V]	Result
0.15 to 5	79	PASS	66	PASS
5 to 30	73	PASS	60	PASS
Comments:				
* Limit decreases linearly with the logarithm of the frequency.				

Test Procedure:

The test site is in accordance with ANSI C63-4:2014 requirements and is listed by FCC.
The measurement procedure is as follows:

Exploratory measurement:

- 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: 2014 item 7.3.1)
- The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.
- 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).
- The LISN measurement port was connected to a measurement receiver
- I/O cables were bundled not longer than 0.4 m
- Measurement was performed in the frequency range 0.15 – 30MHz on each current-carrying conductor
- To maximize the emissions the cable positions were manipulated
- The worst configuration of EUT and cables is shown on a test setup picture at item 1.3

Test Procedure:

Final measurement:

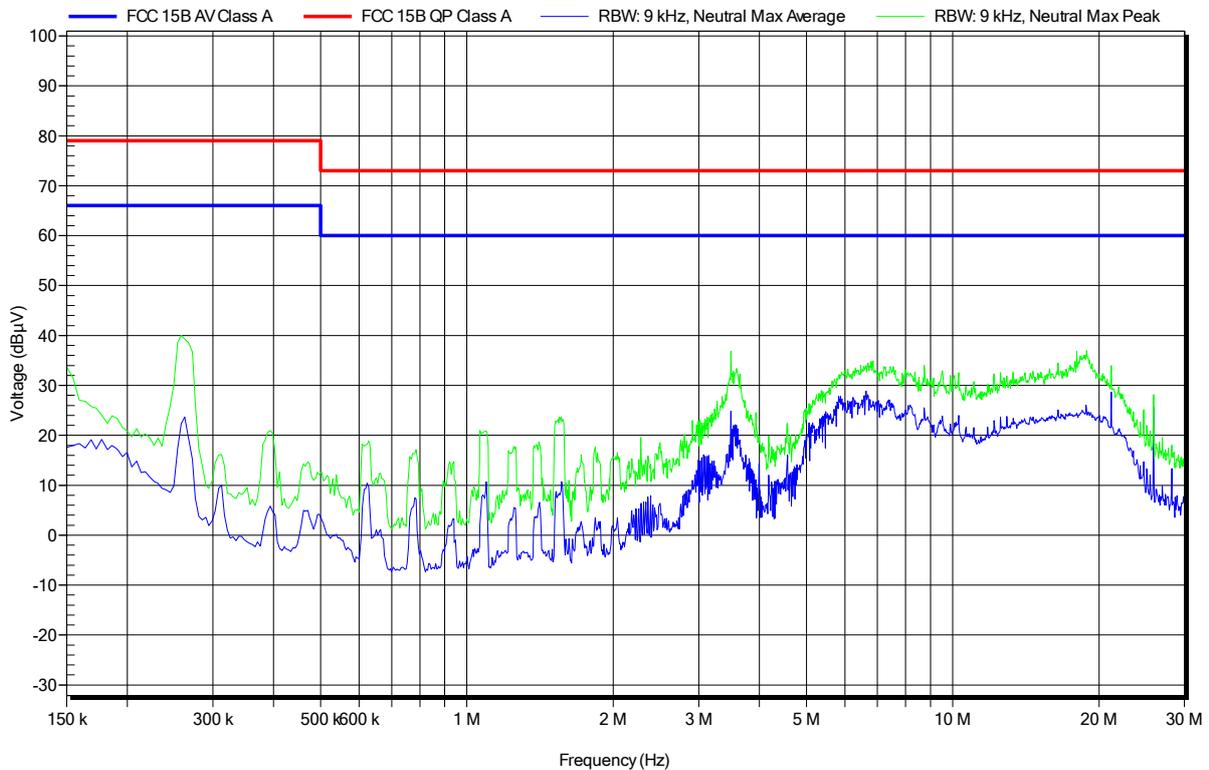
- The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1)
- The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.
- The distance between the outer 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).
- The LISN measurement port was connected to a measurement receiver
- The EUT and cable arrangement were based on the exploratory measurement results
- The test data of the worst-case conditions were recorded and shown on the next pages.

EMI voltage test in the ac-mains according to FCC Part 15b

Project number: G0M-1503-4616

Applicant:	Leica Microsystems (Schweiz) AG
EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Unom: 120V AC
LISN:	ESH2-Z5 N
Mode:	Mode #1
Test Date:	2017-02-06
Note:	

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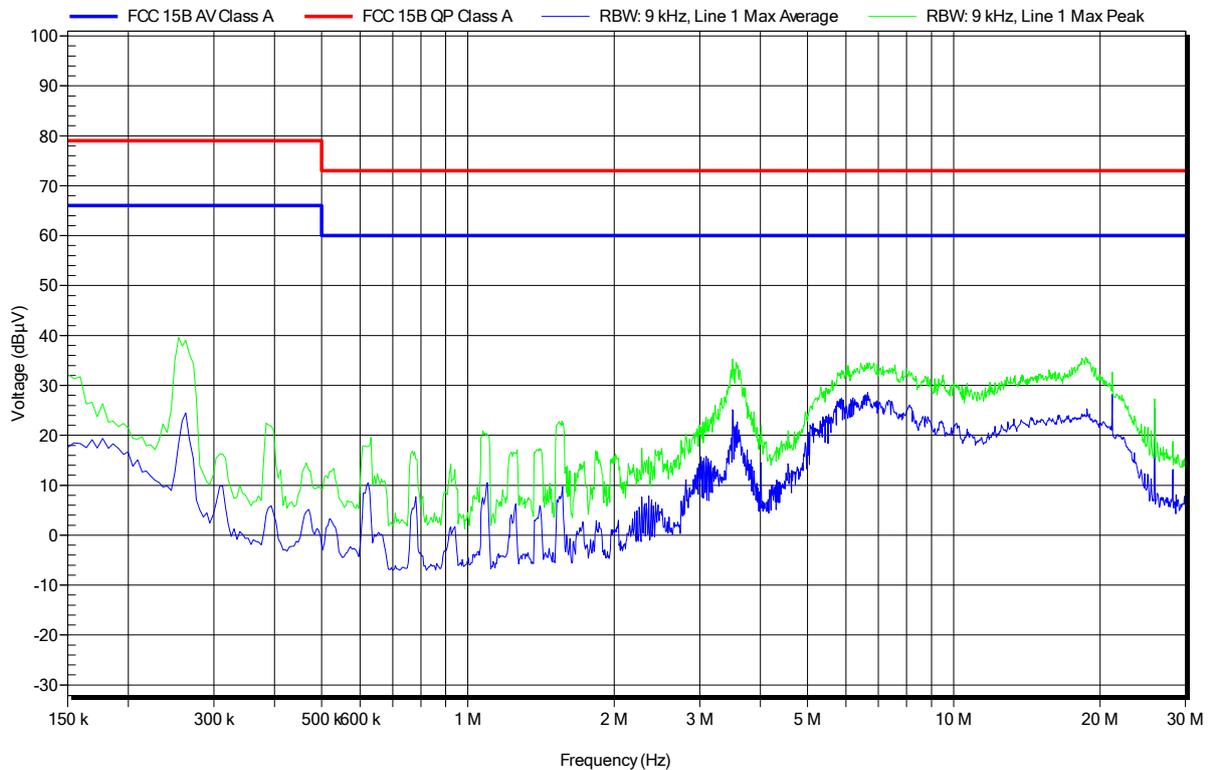


EMI voltage test in the ac-mains according to FCC Part 15b

Project number: G0M-1503-4616

Applicant:	Leica Microsystems (Schweiz) AG
EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Unom: 120V AC
LISN:	ESH2-Z5 L
Mode:	Mode #1
Test Date:	2017-02-06
Note:	

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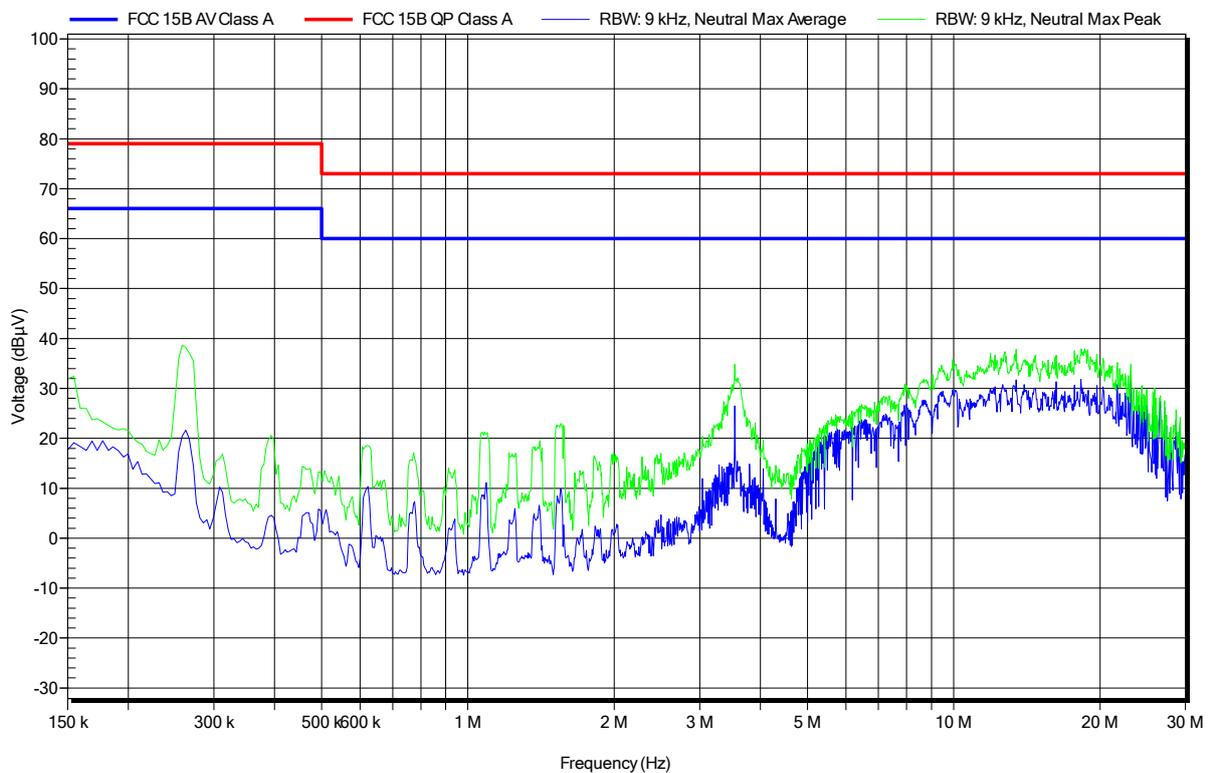


EMI voltage test in the ac-mains according to FCC Part 15b

Project number: G0M-1503-4616

Applicant:	Leica Microsystems (Schweiz) AG
EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Unom: 120V AC
LISN:	ESH2-Z5 N
Mode:	Mode #2
Test Date:	2017-02-06
Note:	

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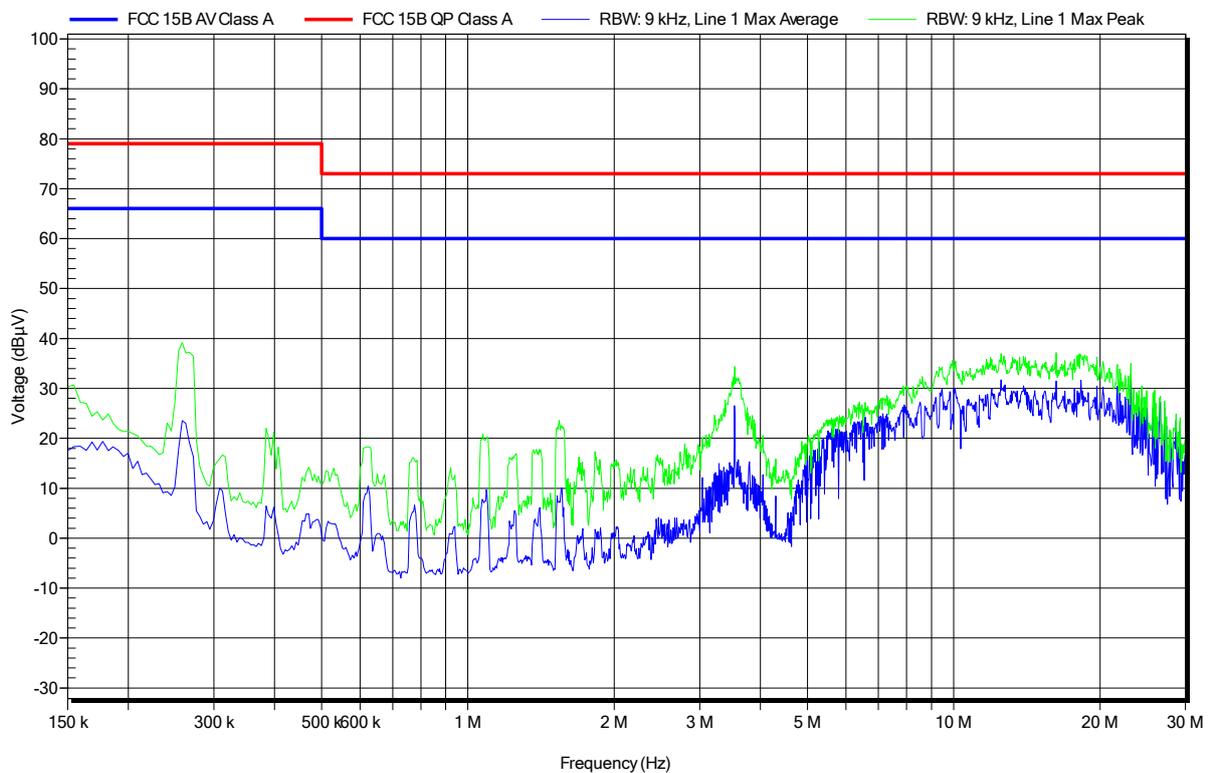


EMI voltage test in the ac-mains according to FCC Part 15b

Project number: G0M-1503-4616

Applicant:	Leica Microsystems (Schweiz) AG
EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Unom: 120V AC
LISN:	ESH2-Z5 L
Mode:	Mode #2
Test Date:	2017-02-06
Note:	

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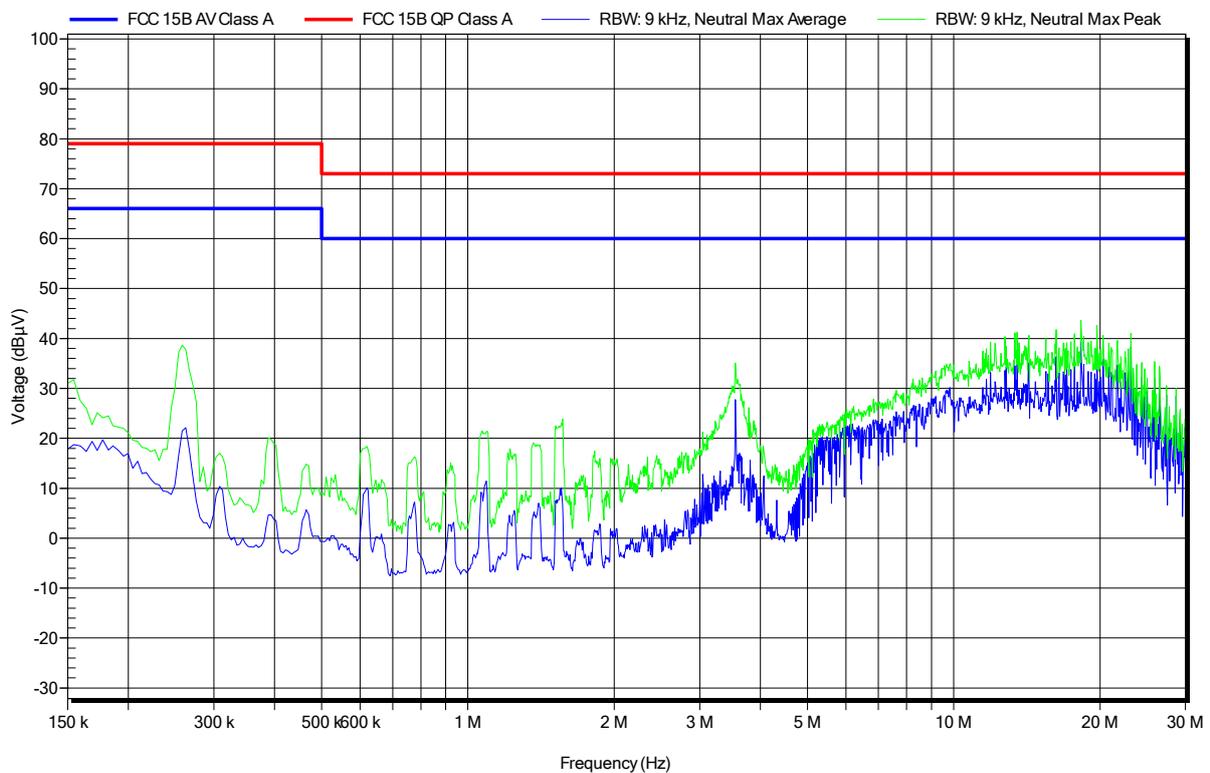


EMI voltage test in the ac-mains according to FCC Part 15b

Project number: G0M-1503-4616

Applicant:	Leica Microsystems (Schweiz) AG
EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Unom: 120V AC
LISN:	ESH2-Z5 N
Mode:	Mode #3
Test Date:	2017-02-06
Note:	

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EMI voltage test in the ac-mains according to FCC Part 15b

Project number: G0M-1503-4616

Applicant:	Leica Microsystems (Schweiz) AG
EUT Name:	Stereo microscope with integrated camera
Model:	EZ4 W
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 20°C, Unom: 120V AC
LISN:	ESH2-Z5 L
Mode:	Mode #3
Test Date:	2017-02-06
Note:	

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