

#### **EMC TEST REPORT**

# FCC 47 CFR Part 15B Industry Canada ICES-003

#### **Electromagnetic compatibility - Unintentional radiators**

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 ...... 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



P	nesi	h	le	test	Casa	verdicts:	
	USSI	J		rear	Lase	veidicis.	

- 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

Compiled by .....: Matthias Handrik

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

Deputy Head of Lab

Jens Marquardt

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.

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

#### 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 w	rith integrated camera		
Model	EZ4 W	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			
	Туре	WLAN module		
	Model	HF-A11-1		
	Manufacturer	High Flying Electronics		
Radio module	HW Version	V3.1		
Radio illodule	SW Version	V3.1		
	SVN	unspecified		
	FCC-ID	AZYHF-A11X		
	IC	None		
Manufacturer	Leica Instruments (S 12 Teban Gardens C 608924 Singapore Singapore	• . ,		
Highest emission frequency	> 1000 MHz (up to 5t	h 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 dBµV. 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:

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

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  $dB\mu V/m$ :

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

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 ICES-003					
Remarks	Result	Reference Method	Requirement – Test	Product Specific Standard	
	PASS	ANSI C 63.4	Radiated emissions	47 CFR 15.109 ICES-003 Item 6.2	
	PASS	ANSI C63.4	AC power line conducted emissions	47 CFR 15.107 ICES-003 Item 6.1	
	1 700	A1101 003.4	The power line conducted emissions	ICES-003 Item 6.1 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: PAS									
Laboratory Parameters:		Require	ed 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/ı	m] Resul	Average [dBµV/m]	Resul t	Peak [dBµV/m]	Resul t			
30 – 88	39	PASS	-		-	-			
88 – 216	43.5	PASS	-		1	ı			
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.



Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 22°C, Unom:

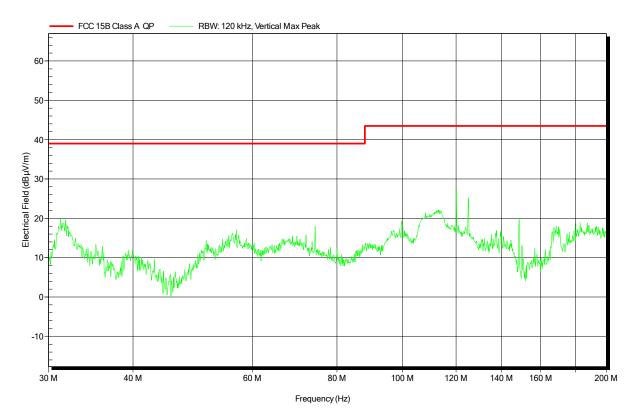
Antenna: Rohde & Schwarz HK 116, Vertical

Measurement distance: 3 m converted to 10 m

 Mode:
 Mode #1

 Test Date:
 2017-02-02

 Note:
 260°; 1m





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 22°C, Unom:

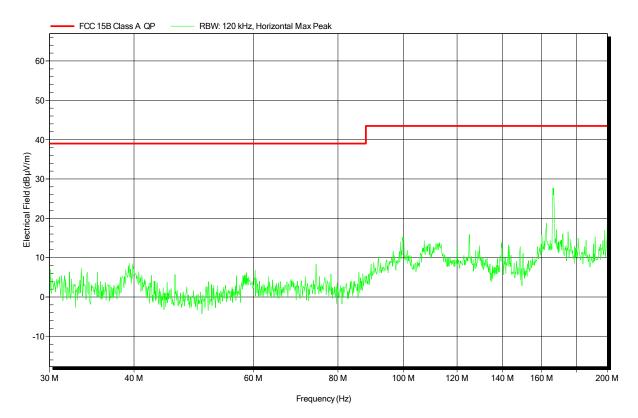
Antenna: Rohde & Schwarz HK 116, Horizontal

Measurement distance: 3 m converted to 10 m

 Mode:
 Mode #1

 Test Date:
 2017-02-02

 Note:
 150°, 2m





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 22°C, Unom:

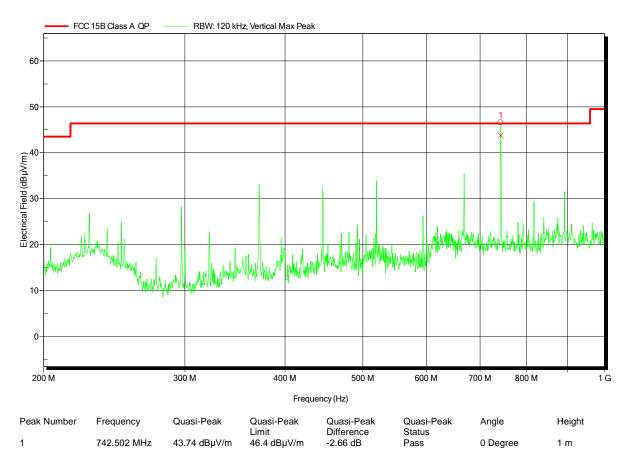
Antenna: Rohde & Schwarz HL 223, Vertical

Measurement distance: 3 m converted to 10 m

 Mode:
 Mode #1

 Test Date:
 2017-02-02

 Note:
 335°, 1m





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

**EUT Name:** Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Mr. Handrik Operator:

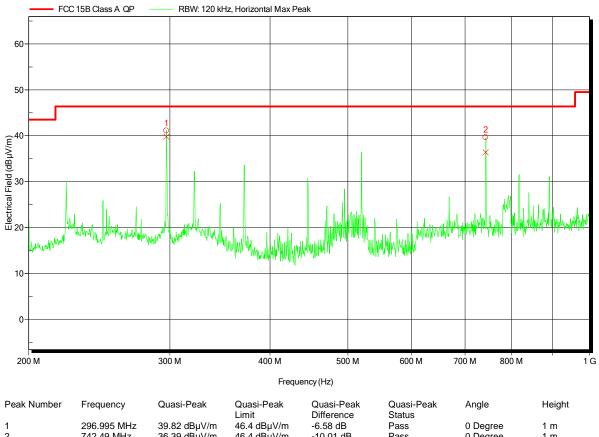
**Test Conditions:** Tnom: 22°C, Unom:

Antenna: Rohde & Schwarz HL 223, Horizontal

Measurement distance: 3 m converted to 10 m

Mode: Mode #1 Test Date: 2017-02-02 320°; 1.2m Note:

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0 Degree 0 Degree 46.4 dBµV/m -10.01 dB 742.49 MHz 36.39 dBµV/m Pass 1 m



Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

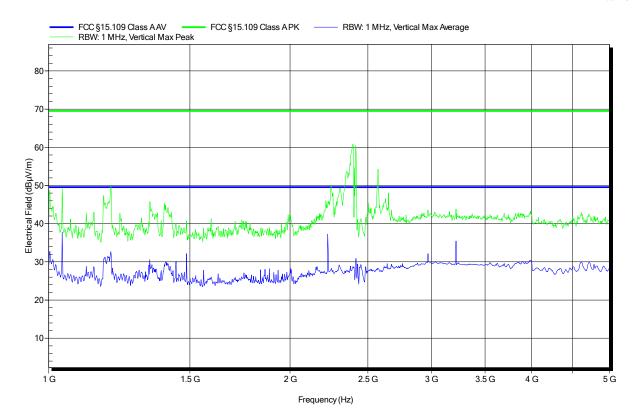
Test Site: Eurofins Product Service GmbH

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





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

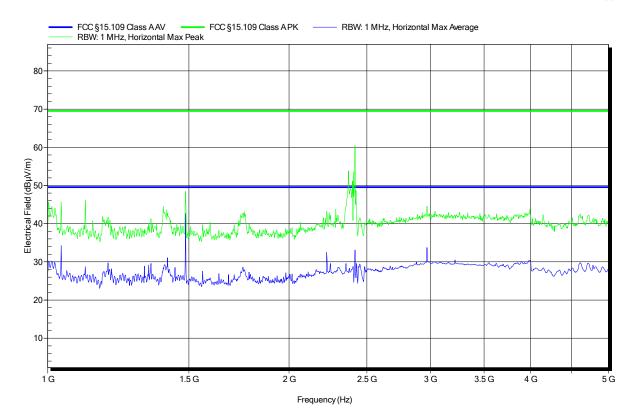
Test Site: Eurofins Product Service GmbH

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





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

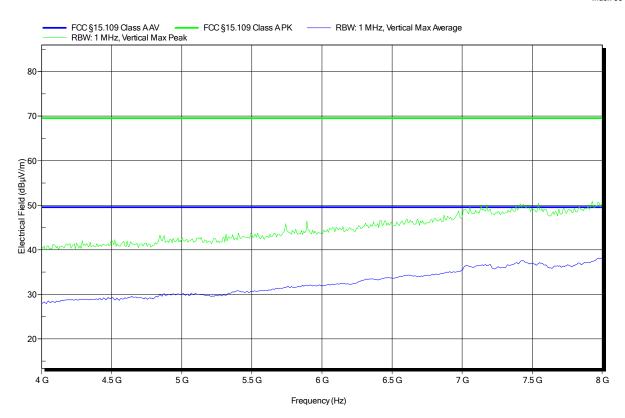
Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Vnom:

Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m Mode: Mode #1 Test Date: 2017-02-07

Note:





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

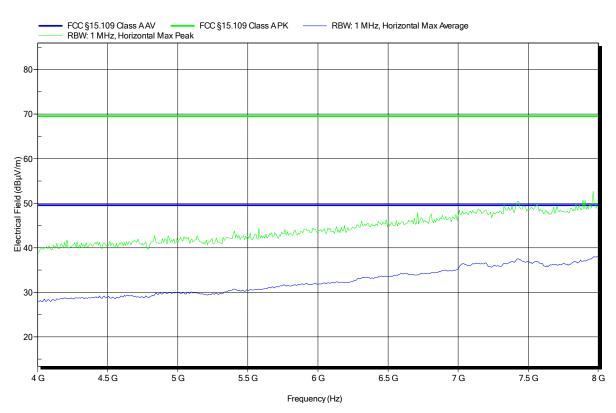
Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Vnom:

Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m Mode: Mode #1 Test Date: 2017-02-07

Note:





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

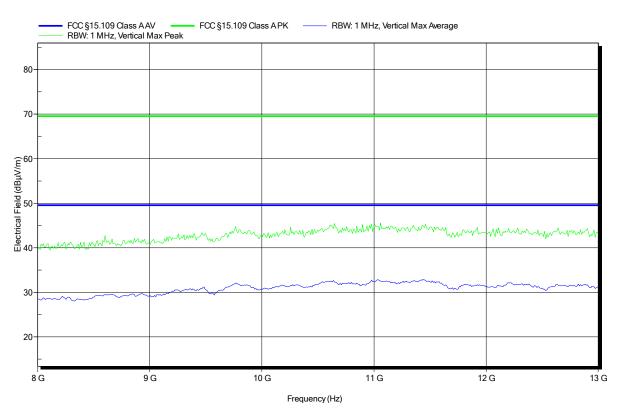
Test Conditions: Tnom: 20°C, Vnom:

Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3m

Mode: Mode #1
Test Date: 2017-02-07

Note:





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

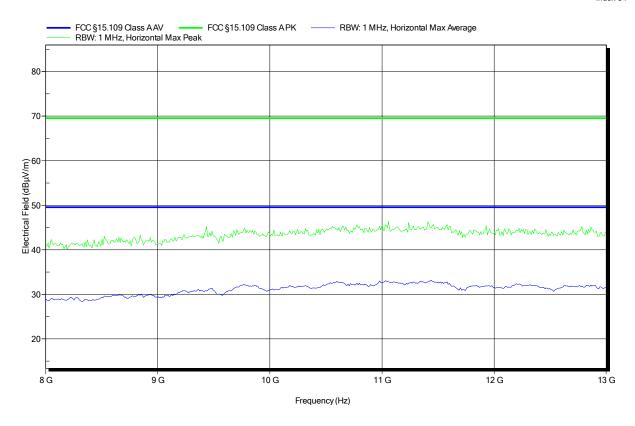
Test Conditions: Tnom: 20°C, Vnom:

Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3m

Mode: Mode #1
Test Date: 2017-02-07

Note:





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Unom:

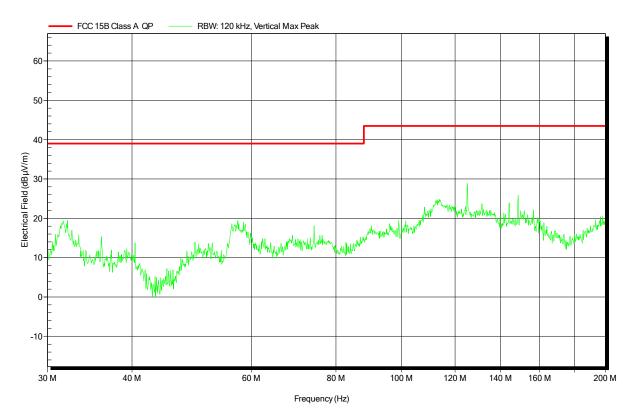
Antenna: Rohde & Schwarz HK 116, Vertical

Measurement distance: 3 m converted to 10 m

 Mode:
 Mode #2

 Test Date:
 2017-02-02

 Note:
 345°; 1m





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope 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 #2

 Test Date:
 2017-02-02

 Note:
 73°; 200m





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Unom:

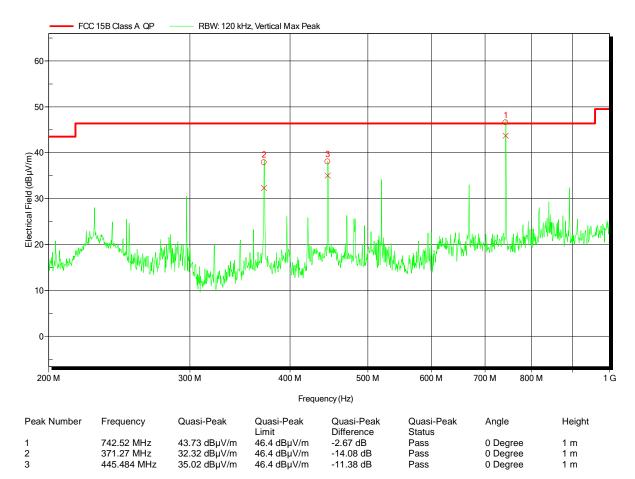
Antenna: Rohde & Schwarz HL 223, Vertical

Measurement distance: 3 m converted to 10 m

 Mode:
 Mode #2

 Test Date:
 2017-02-02

 Note:
 355°; 1m





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Unom:

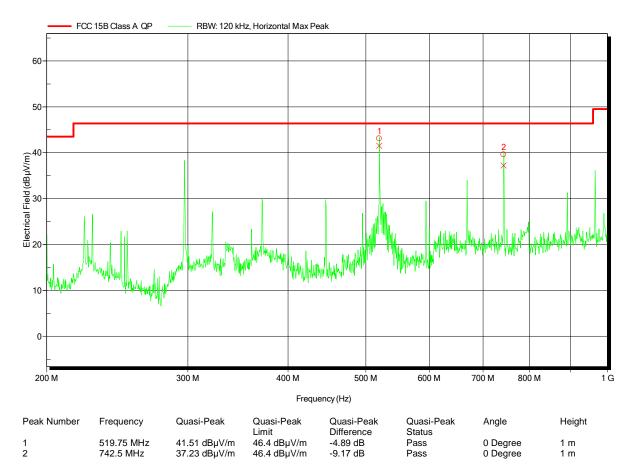
Antenna: Rohde & Schwarz HL 223, Horizontal

Measurement distance: 3 m converted to 10 m

 Mode:
 Mode #2

 Test Date:
 2017-02-02

 Note:
 47°; 1m





Project number: G0M-1503-4616

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EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Unom:

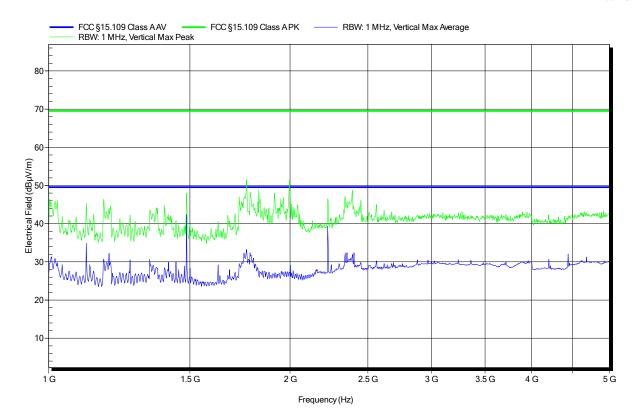
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

 Mode:
 Mode #2

 Test Date:
 2017-02-02

 Note:
 180°; 1m





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Unom:

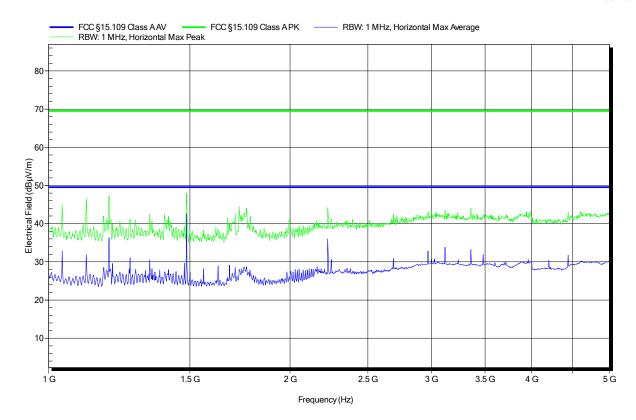
Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

 Mode:
 Mode #2

 Test Date:
 2017-02-02

 Note:
 150°; 1m





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Unom:

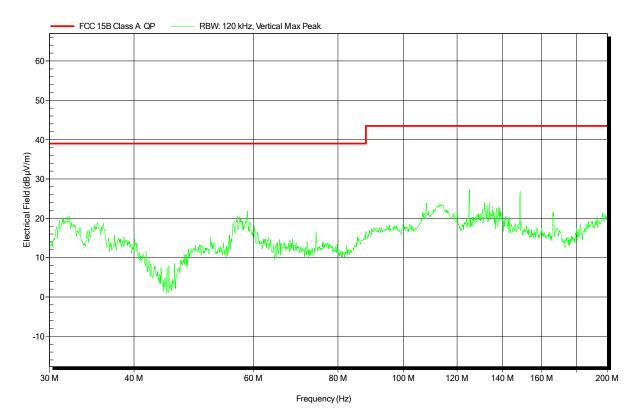
Antenna: Rohde & Schwarz HK 116, Vertical

Measurement distance: 3 m converted to 10 m

 Mode:
 Mode #3

 Test Date:
 2017-02-02

 Note:
 310°; 1m





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Unom:

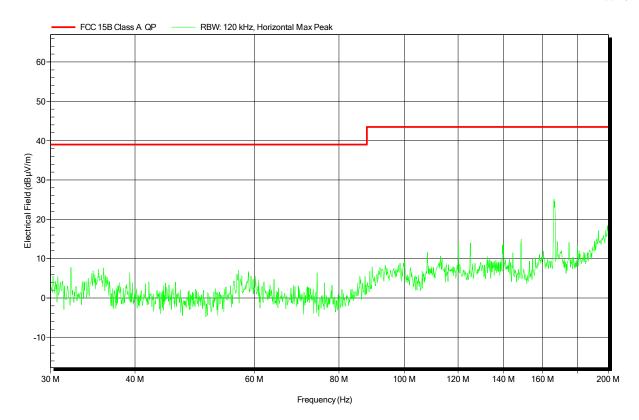
Antenna: Rohde & Schwarz HK 116, Horizontal

Measurement distance: 3 m converted to 10 m

 Mode:
 Mode #3

 Test Date:
 2017-02-02

 Note:
 166°; 1m





Project number: G0M-1503-4616

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EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Unom:

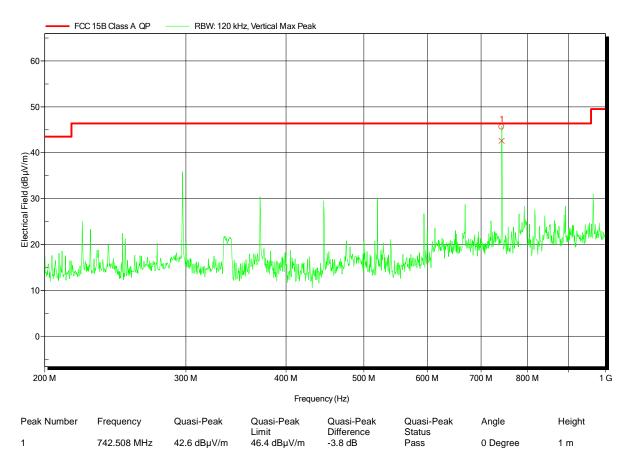
Antenna: Rohde & Schwarz HL 223, Vertical

Measurement distance: 3 m converted to 10 m

 Mode:
 Mode #3

 Test Date:
 2017-02-02

 Note:
 220°; 1.30m





Project number: G0M-1503-4616

Leica Microsystems (Schweiz) AG Applicant:

**EUT Name:** Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Mr. Handrik Operator:

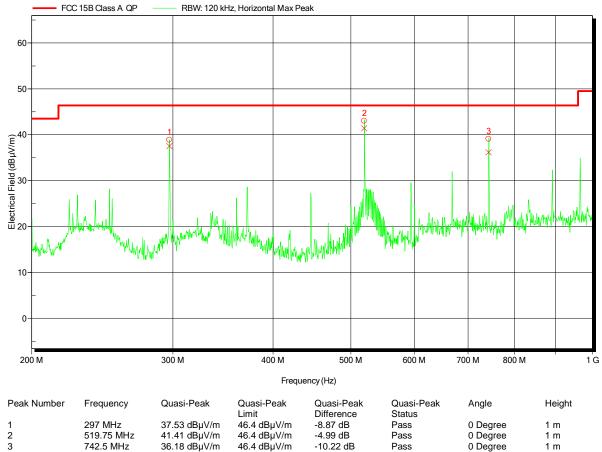
**Test Conditions:** Tnom: 20°C, Unom:

Antenna: Rohde & Schwarz HL 223, Horizontal

Measurement distance: 3 m converted to 10 m

Mode #3 Mode: Test Date: 2017-02-02 47°; 1m Note:

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0 Degree 0 Degree 519.75 MHz 46.4 dBµV/m -4.99 dB 41.41 dBµV/m 36.18 dBµV/m 46.4 dBµV/m 742.5 MHz -10.22 dB Pass 1 m



Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Unom:

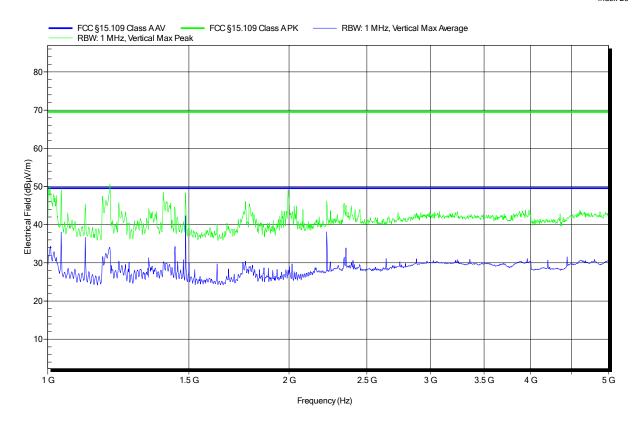
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

 Mode:
 Mode #3

 Test Date:
 2017-02-02

 Note:
 200°; 1m





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

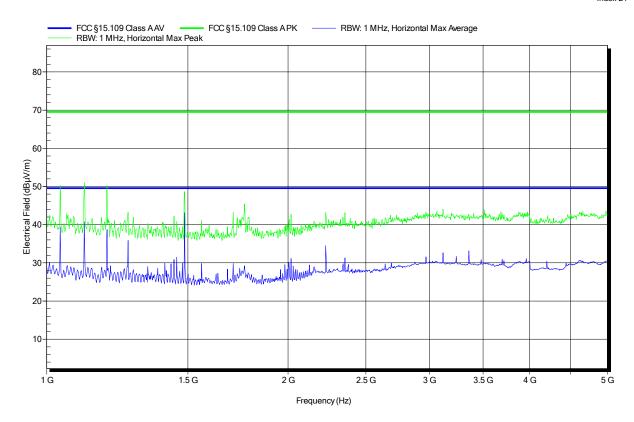
Test Site: Eurofins Product Service GmbH

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





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

Conducted emissions acc. FCC 47 CFR 15.107 / ICES-003 Verdict: P										
Laboratory Para	meters:	Requ	uired prior to the	test	Durin	g the test				
Ambient Temperature			15 to 35 °C		2	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 [	dBµV]	Result	Avera	age [dBµV]	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.



Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

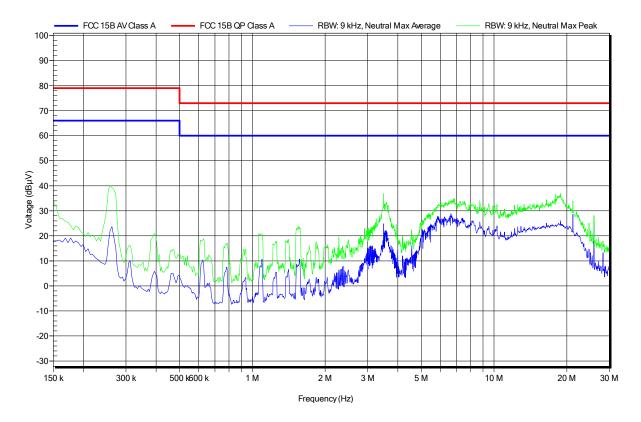
Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Unom: 120V AC

LISN: ESH2-Z5 N Mode: Mode #1 Test Date: 2017-02-06

Note:





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

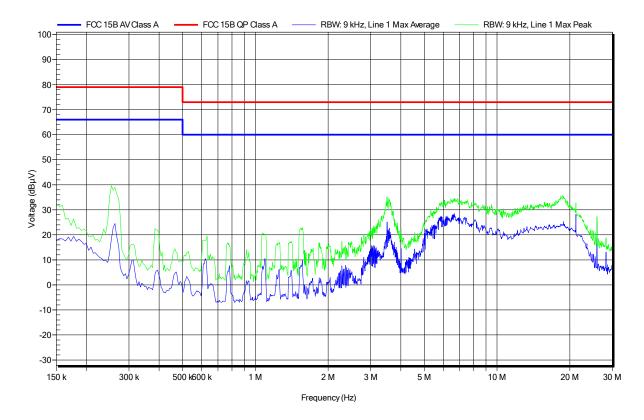
Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Unom: 120V AC

LISN: ESH2-Z5 L Mode: Mode #1 Test Date: 2017-02-06

Note:





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

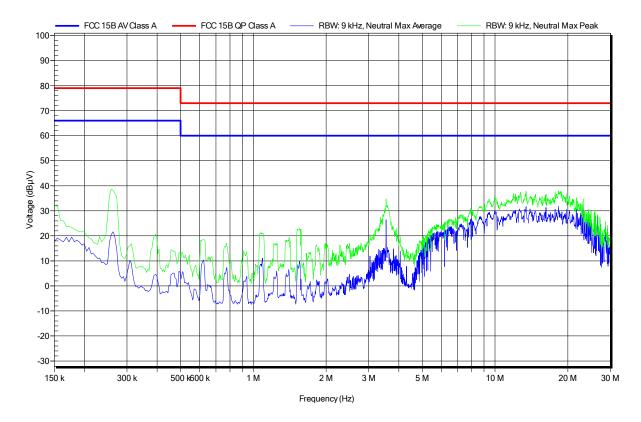
Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Unom: 120V AC

LISN: ESH2-Z5 N Mode: Mode #2 Test Date: 2017-02-06

Note:





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

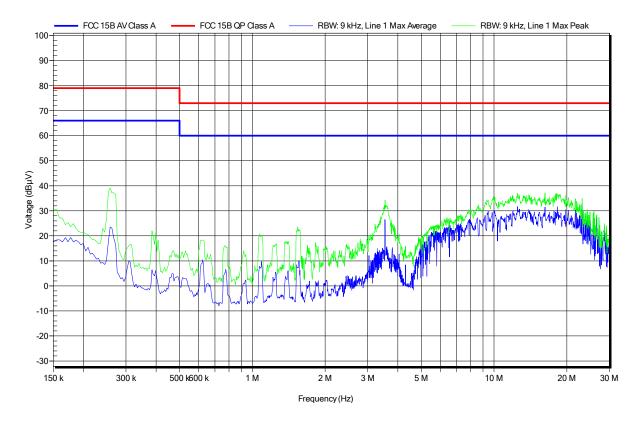
Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Unom: 120V AC

LISN: ESH2-Z5 L Mode: Mode #2 Test Date: 2017-02-06

Note:





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope with integrated camera

Model: EZ4 W

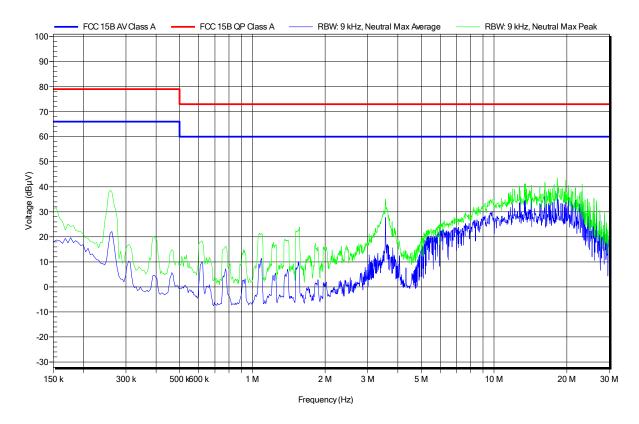
Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 20°C, Unom: 120V AC

LISN: ESH2-Z5 N Mode: Mode #3 Test Date: 2017-02-06

Note:





Project number: G0M-1503-4616

Applicant: Leica Microsystems (Schweiz) AG

EUT Name: Stereo micoscope 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:

