

## EMC TEST REPORT

FCC 47 CFR Part 15B  
Industry Canada RSS-Gen

Electromagnetic compatibility - Unintentional radiators

**Report Reference No.** ..... : G0M-1107-1261 – C-1

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

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

**Accreditation** ..... : FCC Filed Test Laboratory, Reg.-No.: 96970  
A2LA Accredited Testing Laboratory, Certificate No.: 1983.01



**Applicant's name** ..... : HACH LANGE GmbH

**Address** ..... : Königsweg 10  
14163 Berlin  
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** ..... : Measurement probe for water analysis

**Model No.** ..... : LXG440

**Hardware version** ..... : XMF785-E

**Firmware / Software version** ..... : DD 0.7 / AC 0.11

**Contains** ..... : FCC-ID: YCB-LXG440 IC: 5879A-LXG440

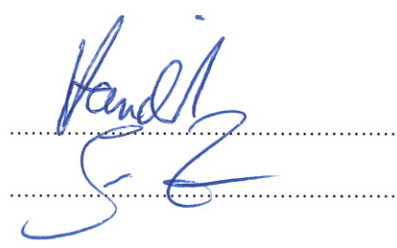
**Test result** ..... : **Passed**

**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 .....: 20.07.2011  
 Date (s) of performance of tests .....: 20.07.2011  
 Compiled by .....: Christian Weber  
 Tested by (+ signature) .....: Matthias Handrik  
 Approved by (+ signature) .....: Jens Zimmermann  
 Date of issue .....: 28.07.2011  
 Total number of pages .....: 26



**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:**

Two Models have been tested:

EUT A: (SN:1386816) with new DC/DC Converter Model: Peak PC10CU-0505 ZLF  
EUT B: (SN:1386813) with old DC/DC Converter Model: Traco TMH0505D (XMU624)

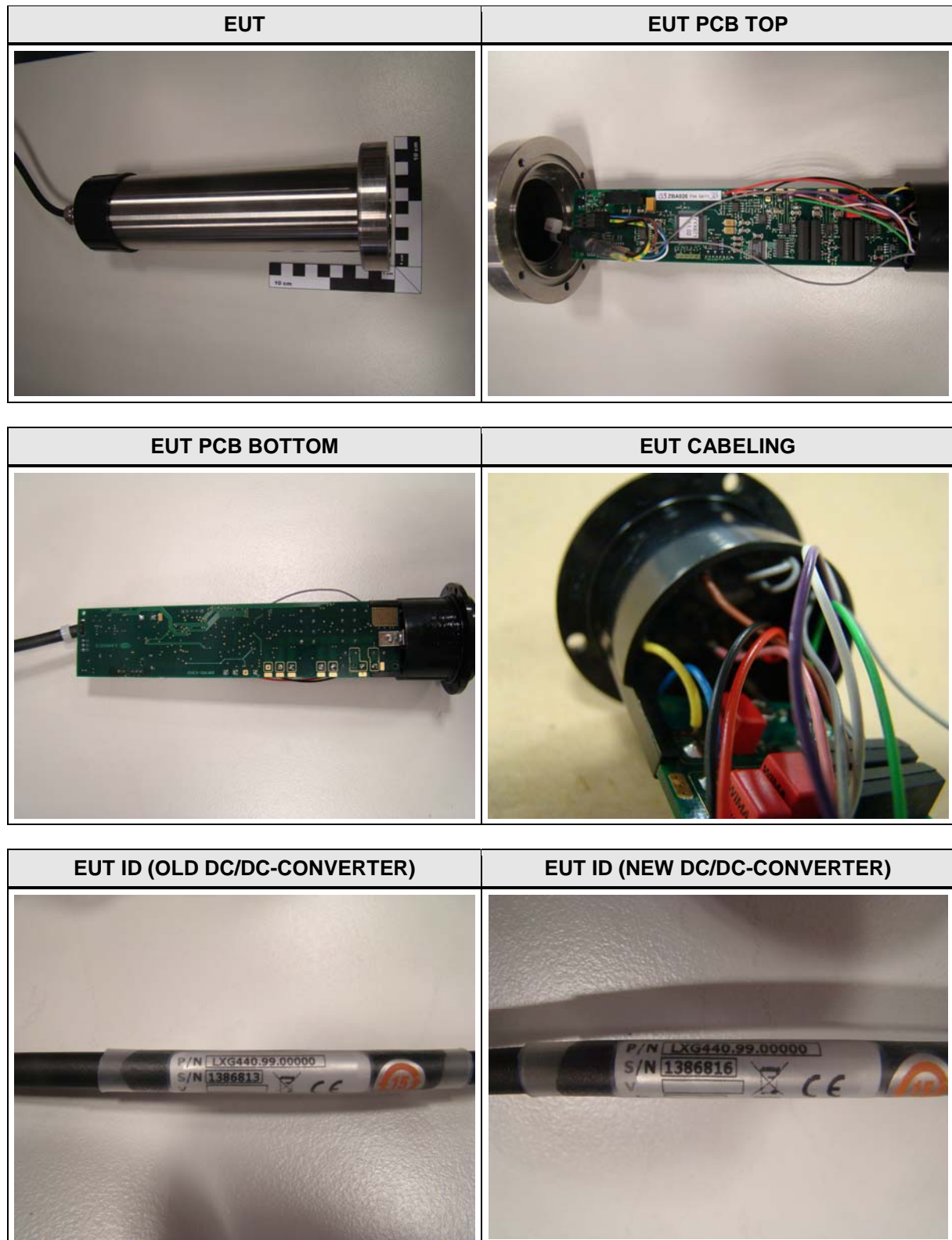
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## 1 Equipment (Test item) Description:


<b>Description</b>	Measurement probe for water analysis
<b>Model</b>	LXG440
<b>Serial number</b>	1386813 (old DC/DC-Converter Traco TMH0505D (XMU624)) 1386816 (new DC/DC-Converter Peak PC10CU-0505 ZLF)
<b>Hardware version</b>	XMF785-E
<b>Software / Firmware version</b>	DD 0.7 / AC 0.11
<b>Contains FCC-ID</b>	YCB-LXG440
<b>Contains IC</b>	5879A-LXG440
<b>Power supply</b>	12VDC (powered via controller device)
<b>AC/DC-Adaptor</b>	None
<b>Highest emission frequency</b>	Fmax [MHz] = 16
<b>Device classification</b>	Class B
<b>Equipment type</b>	Tabletop
<b>Number of tested samples</b>	1

## 1.1 Equipment photos



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CONTROLLER DEVICE	CONTROLLER DEVICE
	

Test Report No.: G0M-1107-1261-C-1

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Storkower Str. 38c, D-15526 Reichenwalde, Germany

## 1.2 Supporting Equipment Used During Testing:

Product Type*	Device	Manufacturer	Model No.	Comments
AE	SC200	Hach Lange GmbH	LXG404	
<p><b>*Note:</b> Use the following abbreviations:</p> <p>AE : Auxiliary/Associated Equipment, or</p> <p>SIM : Simulator (Not Subjected to Test)</p> <p>CABL : Connecting cables</p>				

### 1.3 Operating Modes:

Mode #	Description
1	EUT with old DC/DC-Converter (S/N: 1386813) connected to controller device SC200.
2	EUT with new DC/DC-Converter (S/N: 1386816) connected to controller device SC200.



#### 1.4 Test Equipment Used During Testing

Radiated emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Biconical Antenna	R&S	HK 116	Inv. No. 0012	Jan 10	Jan 13
LPD-Antenne	R&S	HL 223	Inv. No. 0295	Feb 11	Feb 13
LPD-Antenna	R&S	HL 025	Inv. No. 0512	Feb 10	Feb 13
EMI Test Receiver	R&S	ESCS30	Inv. No. 0474	Jun 11	Jun 12

Conducted emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	R&S	ESH2-Z5	Inv. No. 0288	Sep 10	Sep 12
AMN	R&S	ESH3-Z5	Inv. No. 0040	Nov 10	Nov 12
EMI Test Receiver	R&S	ESCS 30	Inv. No. 0474	Jun 11	Jun 12

## 2 Result Summary

FCC 47 CFR Part 15B, Industry Canada RSS-Gen				
Product Specific Standard	Requirement – Test	Reference Method	Result	Remarks
47 CFR 15.107 RSS-Gen 4.9 & 4.10	Radiated emissions	ANSI C 63.4	PASS	
47 CFR 15.109 RSS-Gen 7.2.4	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%		52%	
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] = 16			
Fully configured sample scanned over the following frequency range		Frequency range			
		30MHz to 1GHz			
Limits and results Class B – Model S/N: 1386813					
Frequency [MHz]	Quasi-Peak [dBµV/m]	Result	Average [dBµV/m]		Result
30 – 88	40	PASS	-		-
88 – 216	43.5	PASS	-		-
216 – 960	46	PASS	-		-
960 – 1000	54	PASS	-		-
Limits and results Class B – Model S/N: 1386816					
Frequency [MHz]	Quasi-Peak [dBµV/m]	Result	Average [dBµV/m]		Result
30 – 88	40	PASS	-		-
88 – 216	43.5	PASS	-		-
216 – 960	46	PASS	-		-
960 – 1000	54	PASS	-		-
Comments:					

Test setup

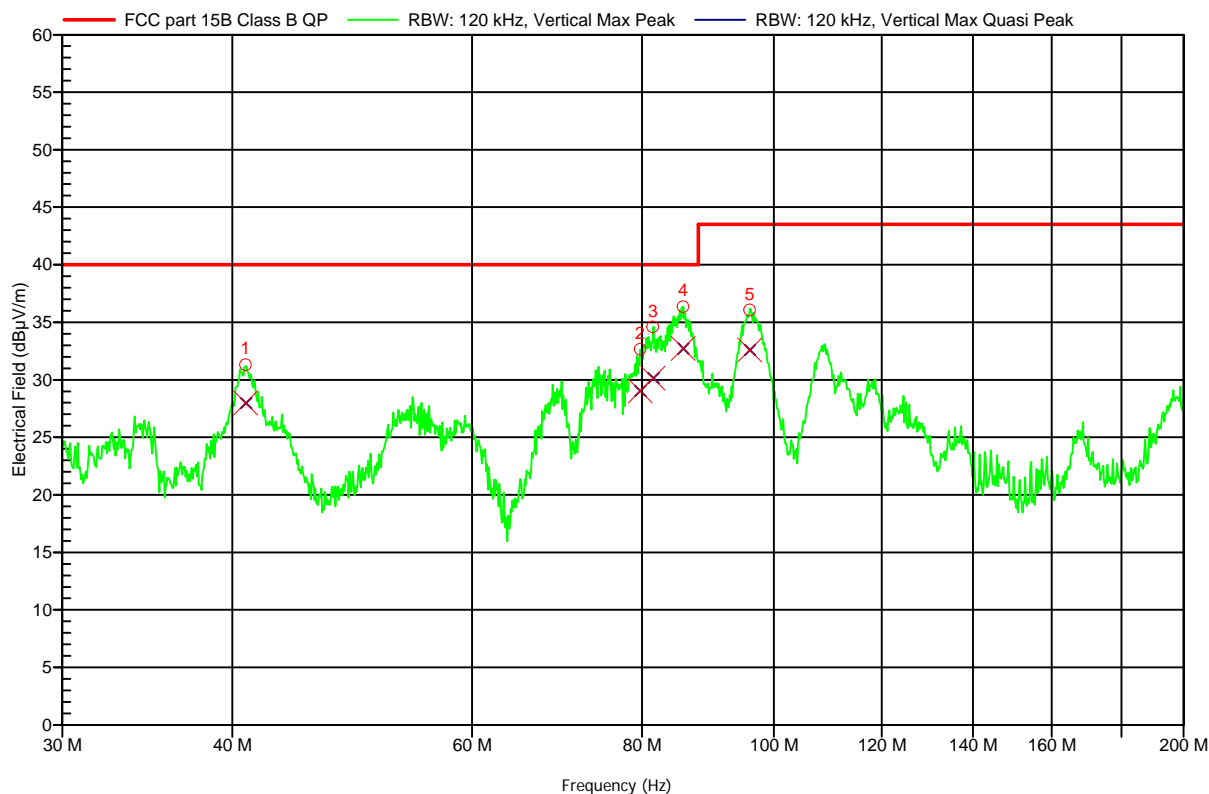


## Spurious emissions under normal conditions according to FCC part 15B

Order number: G0M-1107-1261

Manufacturer: HACH LANGE GmbH  
 EUT Name: Measurement probe for water analysis  
 Model: LXG440  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Handrik  
 Test Conditions: Tnom: 23°C, Unom: 12 V DC => controller  
 Antenna: Rohde & Schwarz HK 116, Vertical  
 Measurement distance: 3m  
 Mode: SC200 Controller:LXG404+ANISE probe: LXG440, Ser.: 1386813  
 (DC-DC Converter TRACO)  
 Test Date: 20.07.2011  
 Note: PASS

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Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Status
40,92 MHz	27,98 dBµV/m	40 dBµV/m	-12,02 dB	Pass
79,77 MHz	29,03 dBµV/m	40 dBµV/m	-10,97 dB	Pass
81,492 MHz	30,13 dBµV/m	40 dBµV/m	-9,87 dB	Pass
85,752 MHz	32,72 dBµV/m	40 dBµV/m	-7,28 dB	Pass
96 MHz	32,58 dBµV/m	43,5 dBµV/m	-10,92 dB	Pass

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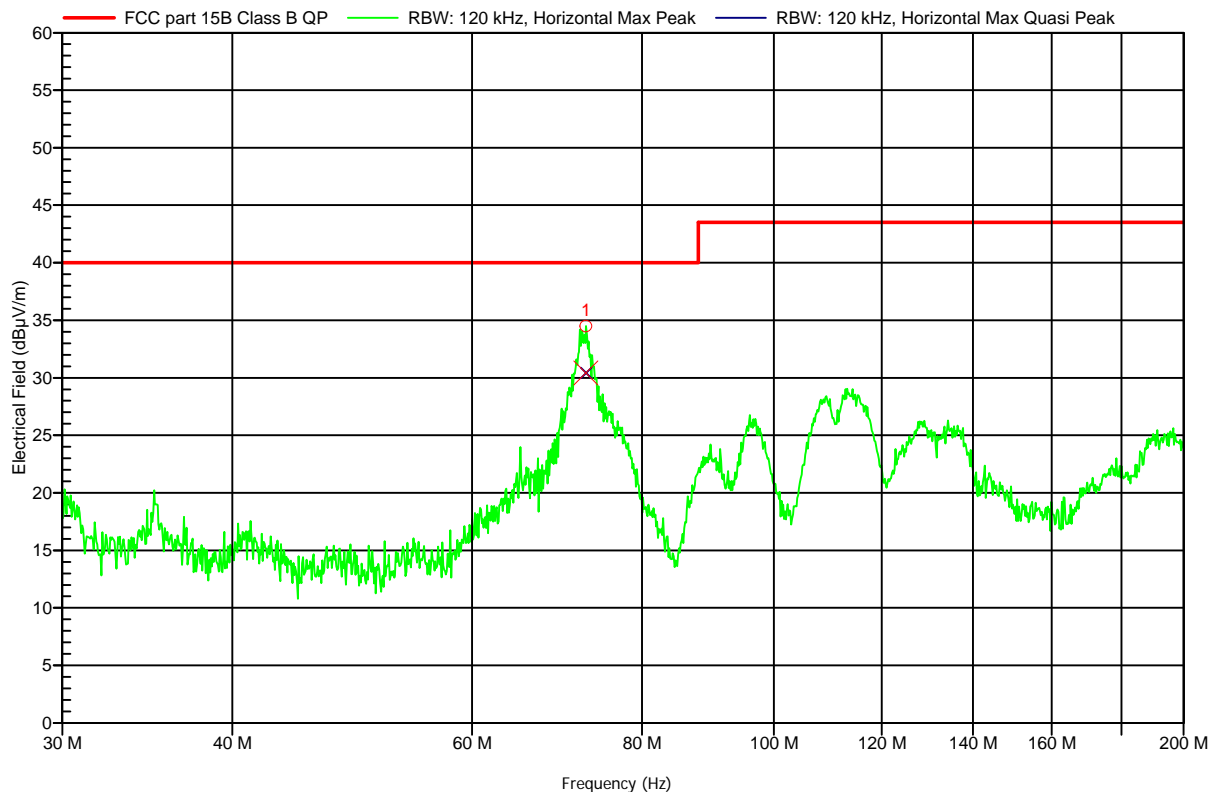
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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 Operator: Mr. Handrik  
 Test Conditions: Tnom: 23°C, Unom: 12 V DC => controller  
 Antenna: Rohde & Schwarz HK 116, Horizontal  
 Measurement distance: 3m  
 Mode: SC200 Controller:LXG404+ANISE probe: LXG440, Ser.: 1386813  
 (DC-DC Converter TRACO)  
 Test Date: 20.07.2011  
 Note: PASS

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Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Status
72,768 MHz	30,41 dBµV/m	40 dBµV/m	-9,59 dB	Pass

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 Operator: Mr. Handrik  
 Test Conditions: Tnom: 23°C, Unom: 12 V DC => controller  
 Antenna: Rohde & Schwarz HL 223, Vertical  
 Measurement distance: 3m  
 Mode: SC200 Controller:LXG404+ANISE probe: LXG440, Ser.: 1386813  
 (DC-DC Converter TRACO)  
 Test Date: 20.07.2011  
 Note: PASS

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**Spurious emissions under normal conditions according to FCC part 15B**

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 Antenna: Rohde & Schwarz HL 223, Horizontal  
 Measurement distance: 3m  
 Mode: SC200 Controller:LXG404+ANISE probe: LXG440, Ser.: 1386813  
 (DC-DC Converter TRACO)  
 Test Date: 20.07.2011  
 Note: PASS

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Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Status
230,41 MHz	34,82 dBµV/m	46 dBµV/m	-11,18 dB	Pass
237,325 MHz	32,07 dBµV/m	46 dBµV/m	-13,93 dB	Pass
242,665 MHz	32,43 dBµV/m	46 dBµV/m	-13,57 dB	Pass

Test Report No.: G0M-1107-1261-C-1

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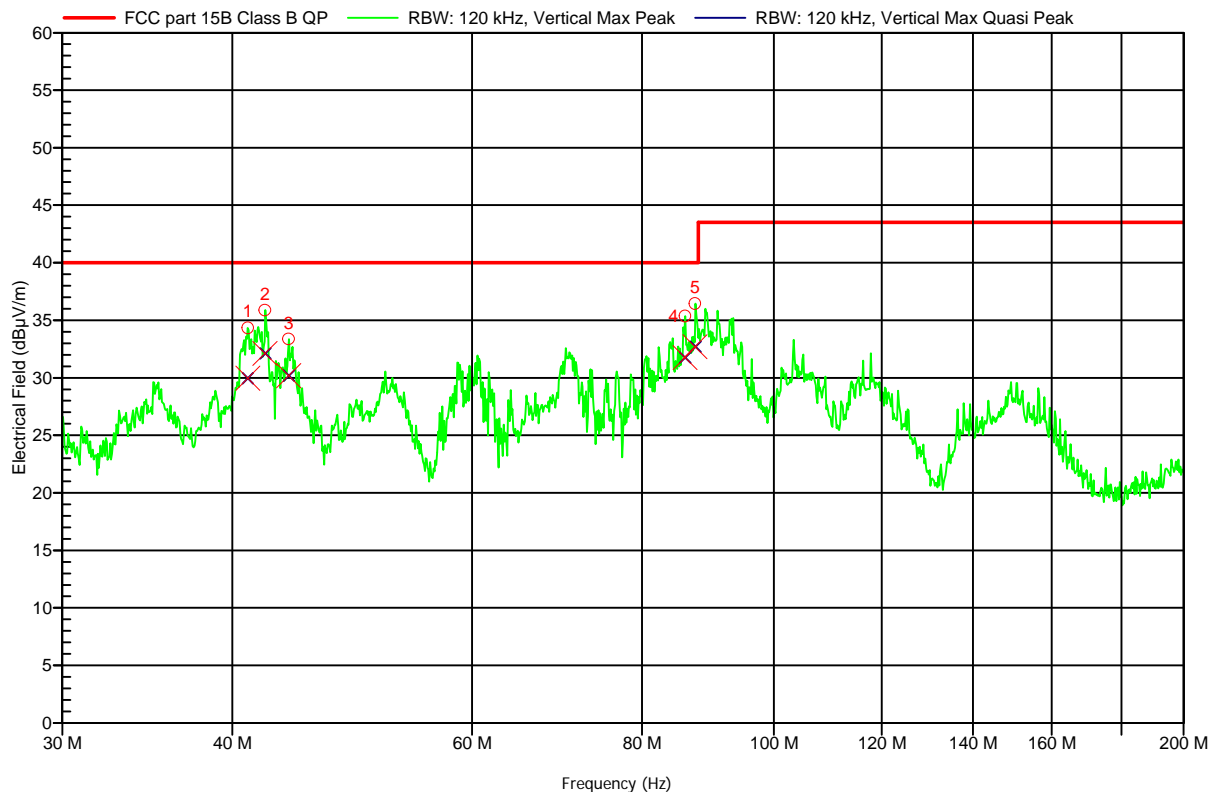


## Spurious emissions under normal conditions according to FCC part 15B

Order number: G0M-1107-1261

Manufacturer: HACH LANGE GmbH  
 EUT Name: Measurement probe for water analysis  
 Model: LXG440  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Handrik  
 Test Conditions: Tnom: 23°C, Unom: 12 V DC => controller  
 Antenna: Rohde & Schwarz HK 116, Vertical  
 Measurement distance: 3m  
 Mode: SC200 controller: LXG404+ANISE probe: LXG440, Ser.: 1386816  
 (DC-DC Converter PEAK)  
 Test Date: 20.07.2011  
 Note: PASS

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Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Status
41,07 MHz	29,96 dBµV/m	40 dBµV/m	-10,04 dB	Pass
42,282 MHz	32,12 dBµV/m	40 dBµV/m	-7,88 dB	Pass
44,01 MHz	30,18 dBµV/m	40 dBµV/m	-9,82 dB	Pass
86,028 MHz	31,75 dBµV/m	40 dBµV/m	-8,25 dB	Pass
87,504 MHz	32,7 dBµV/m	40 dBµV/m	-7,3 dB	Pass

Test Report No.: G0M-1107-1261-C-1

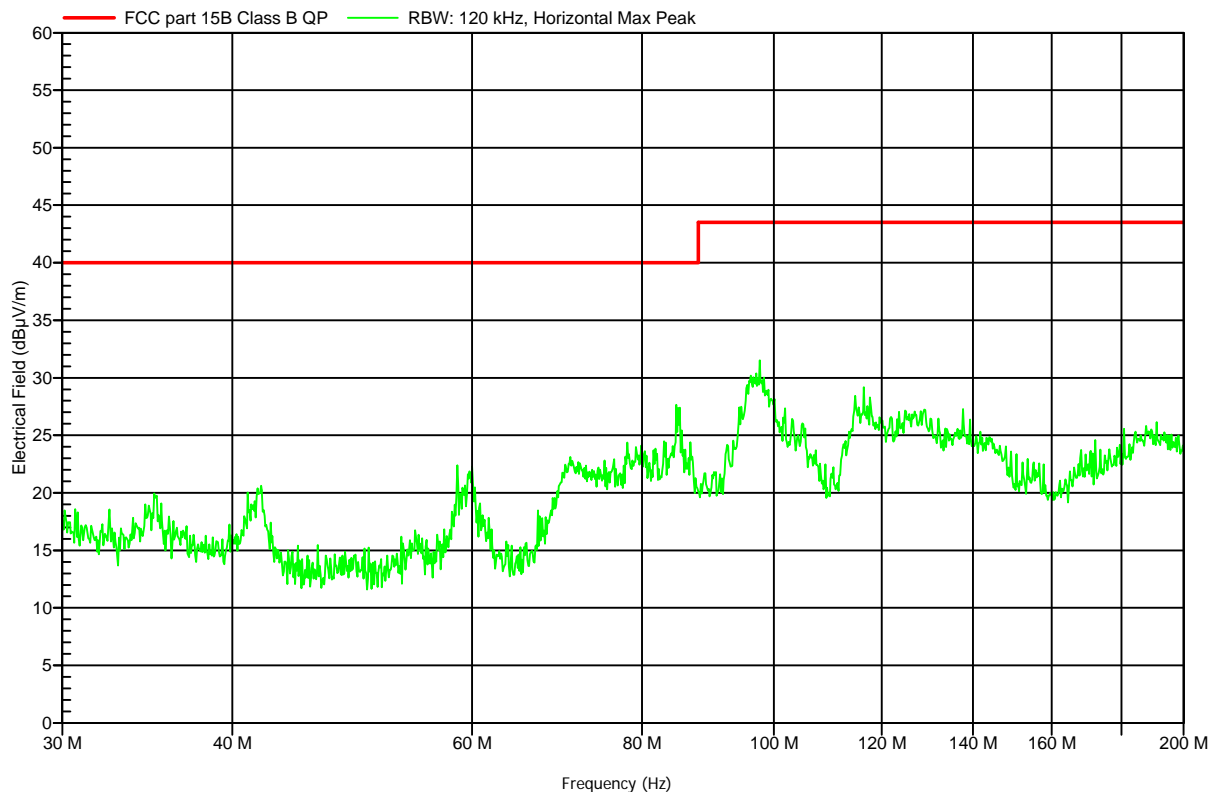
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## Spurious emissions under normal conditions according to FCC part 15B

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 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Handrik  
 Test Conditions: Tnom: 23°C, Unom: 12 V DC => controller  
 Antenna: Rohde & Schwarz HK 116, Horizontal  
 Measurement distance: 3m  
 Mode: SC200 controller: LXG404+ANISE probe: LXG440, Ser.: 1386816  
 (DC-DC Converter PEAK)  
 Test Date: 20.07.2011  
 Note: PASS

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Test Report No.: G0M-1107-1261-C-1

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

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 EUT Name: Measurement probe for water analysis  
 Model: LXG440  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Handrik  
 Test Conditions: Tnom: 23°C, Unom: 12 V DC => controller  
 Antenna: Rohde & Schwarz HL 223, Vertical  
 Measurement distance: 3m  
 Mode: SC200 controller: LXG404+ANISE probe: LXG440, Ser.: 1386816  
 (DC-DC Converter PEAK)  
 Test Date: 20.07.2011  
 Note: PASS

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Test Report No.: G0M-1107-1261-C-1

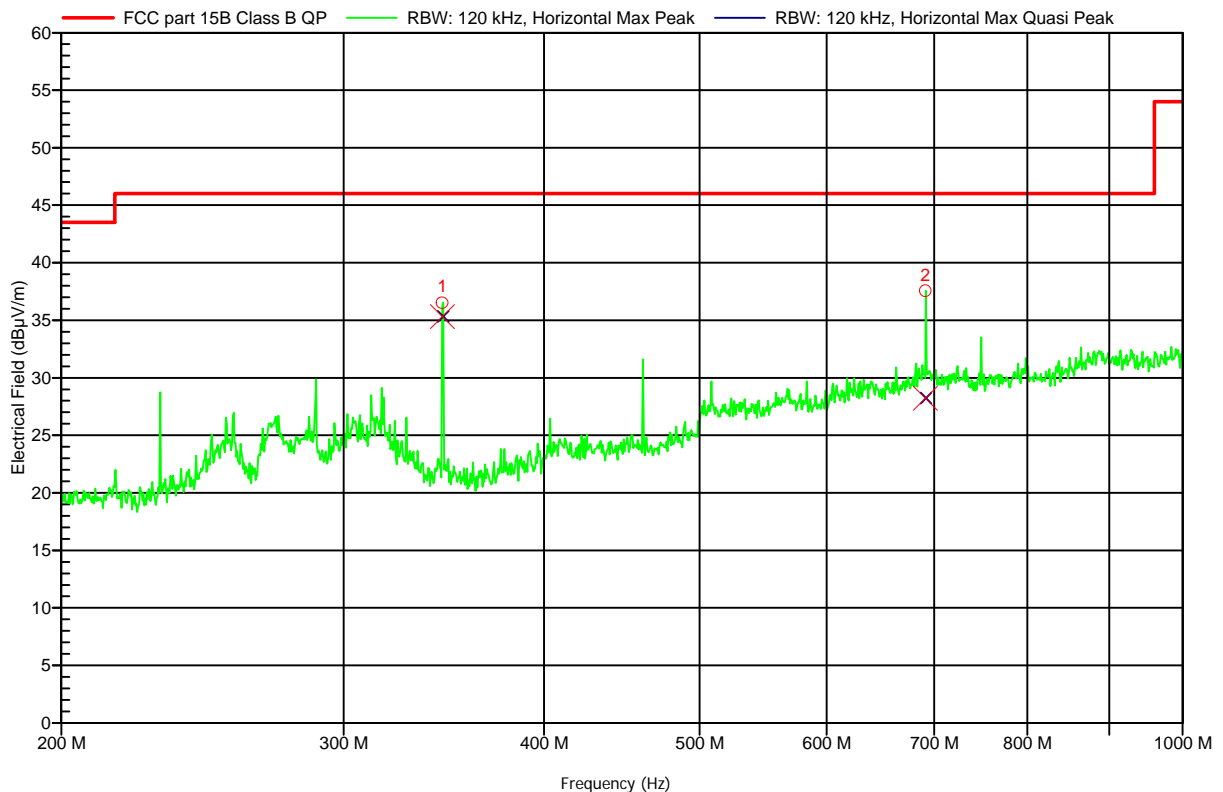
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 Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Spurious emissions under normal conditions according to FCC part 15B**

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 Model: LXG440  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Handrik  
 Test Conditions: Tnom: 23°C, Unom: 12 V DC => controller  
 Antenna: Rohde & Schwarz HL 223, Horizontal  
 Measurement distance: 3m  
 Mode: SC200 controller: LXG404+ANISE probe: LXG440, Ser.: 1386816  
 (DC-DC Converter PEAK)  
 Test Date: 20.07.2011  
 Note: PASS

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Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Status
345,625 MHz	35,33 dBµV/m	46 dBµV/m	-10,67 dB	Pass
691,2 MHz	28,23 dBµV/m	46 dBµV/m	-17,77 dB	Pass

Test Report No.: G0M-1107-1261-C-1

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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%		52%	
Test according referenced standards		Reference Method			
		ANSI C63.4			
Fully configured sample scanned over the following frequency range		Frequency range			
		0.15MHz to 30MHz			
Sample is tested with respect to the requirements of the equipment class		Equipment class			
		Class B			
Points of Application		Application Interface			
AC Mains		LISN			
Limits and results Class B – Model S/N: 1386813					
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	
Limits and results Class B – Model S/N: 1386816					
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 setup

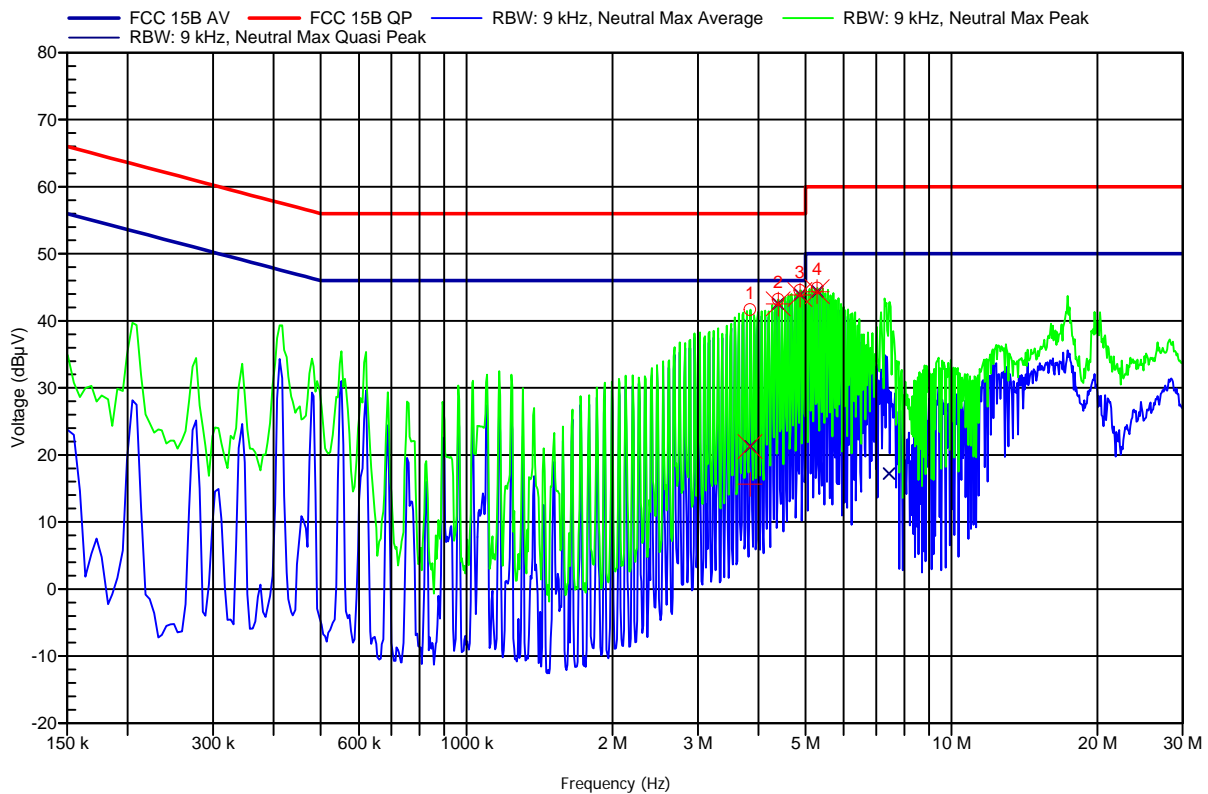


## EMI voltage test in the ac-mains according to FCC part 15B

Order number: G0M-1107-1261

Manufacturer: HACH LANGE GmbH  
 EUT Name: Measurement probe for water analysis  
 Model: LXG440  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Handrik  
 Test Conditions: Tnom: 23°C, Unom: 12 V DC => controller  
 LISN: ESH2-Z5 N  
 Mode: SC200 controller: LXG404+ANISE probe: LXG440, Ser.: 1386816, (DC-DC Converter PEAK)  
 Test Date: 20.07.2011  
 Note: PASS

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Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Status
3,844 MHz	21,27 dBμV	56 dBμV	-34,73 dB	Pass
4,394 MHz	42,55 dBμV	56 dBμV	-13,45 dB	Pass
4,874 MHz	43,93 dBμV	56 dBμV	-12,07 dB	Pass
5,286 MHz	44,38 dBμV	60 dBμV	-15,62 dB	Pass

Frequency	Average	Average Limit	Average Difference	Status
3,844 MHz	15,62 dBμV	46 dBμV	-30,38 dB	Pass
4,394 MHz	42,5 dBμV	46 dBμV	-3,5 dB	Pass
4,874 MHz	43,85 dBμV	46 dBμV	-2,15 dB	Pass
5,286 MHz	44,35 dBμV	50 dBμV	-5,65 dB	Pass

Test Report No.: G0M-1107-1261-C-1

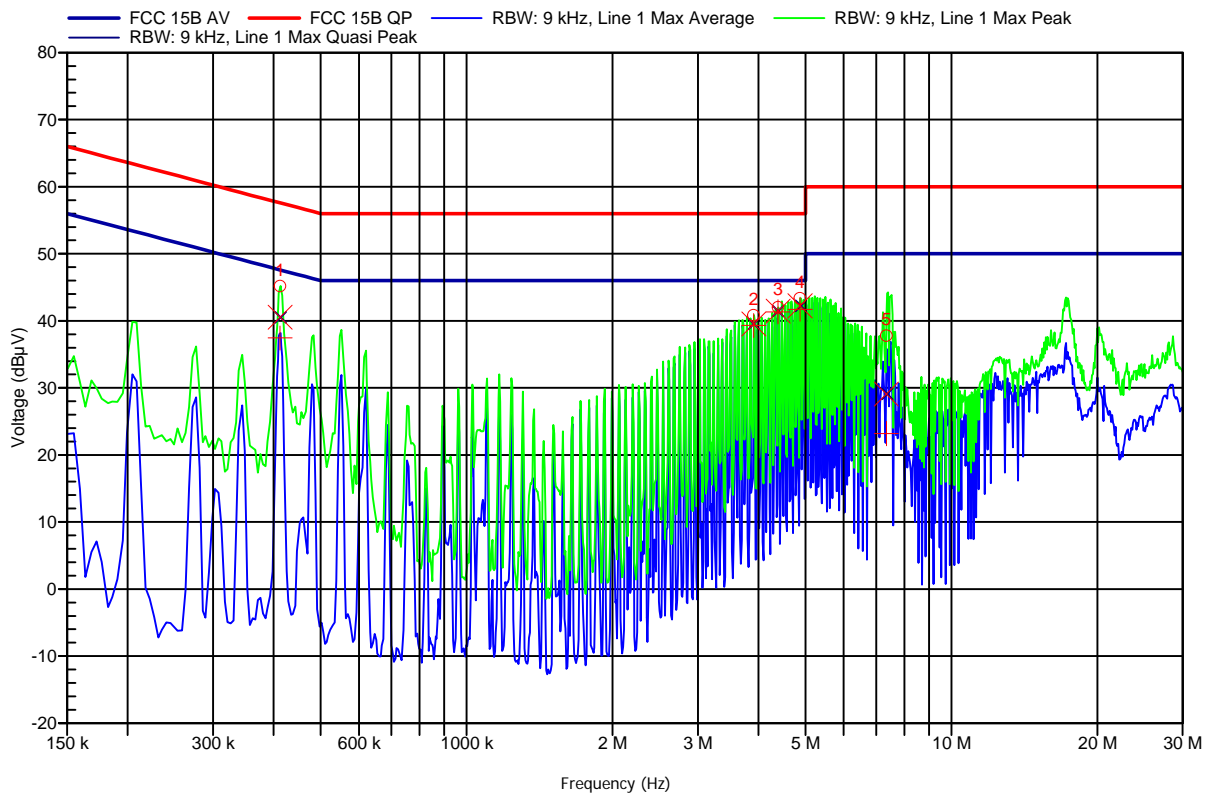
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## EMI voltage test in the ac-mains according to FCC part 15B

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 LISN: ESH2-Z5 L  
 Mode: SC200 controller: LXG404+ANISE probe: LXG440, Ser.: 1386816, (DC-DC Converter PEAK)  
 Test Date: 20.07.2011  
 Note: PASS

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Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Status
412,8 kHz	40,53 dBμV	57,59 dBμV	-17,06 dB	Pass
3,912 MHz	39,52 dBμV	56 dBμV	-16,48 dB	Pass
4,393 MHz	41,44 dBμV	56 dBμV	-14,56 dB	Pass
4,875 MHz	42,23 dBμV	56 dBμV	-13,77 dB	Pass
7,348 MHz	29,1 dBμV	60 dBμV	-30,9 dB	Pass

Frequency	Average	Average Limit	Average Difference	Status
412,8 kHz	37,44 dBμV	47,59 dBμV	-10,15 dB	Pass
3,912 MHz	39,32 dBμV	46 dBμV	-6,68 dB	Pass
4,393 MHz	41,35 dBμV	46 dBμV	-4,65 dB	Pass
4,875 MHz	41,71 dBμV	46 dBμV	-4,29 dB	Pass
7,348 MHz	23,19 dBμV	50 dBμV	-26,81 dB	Pass

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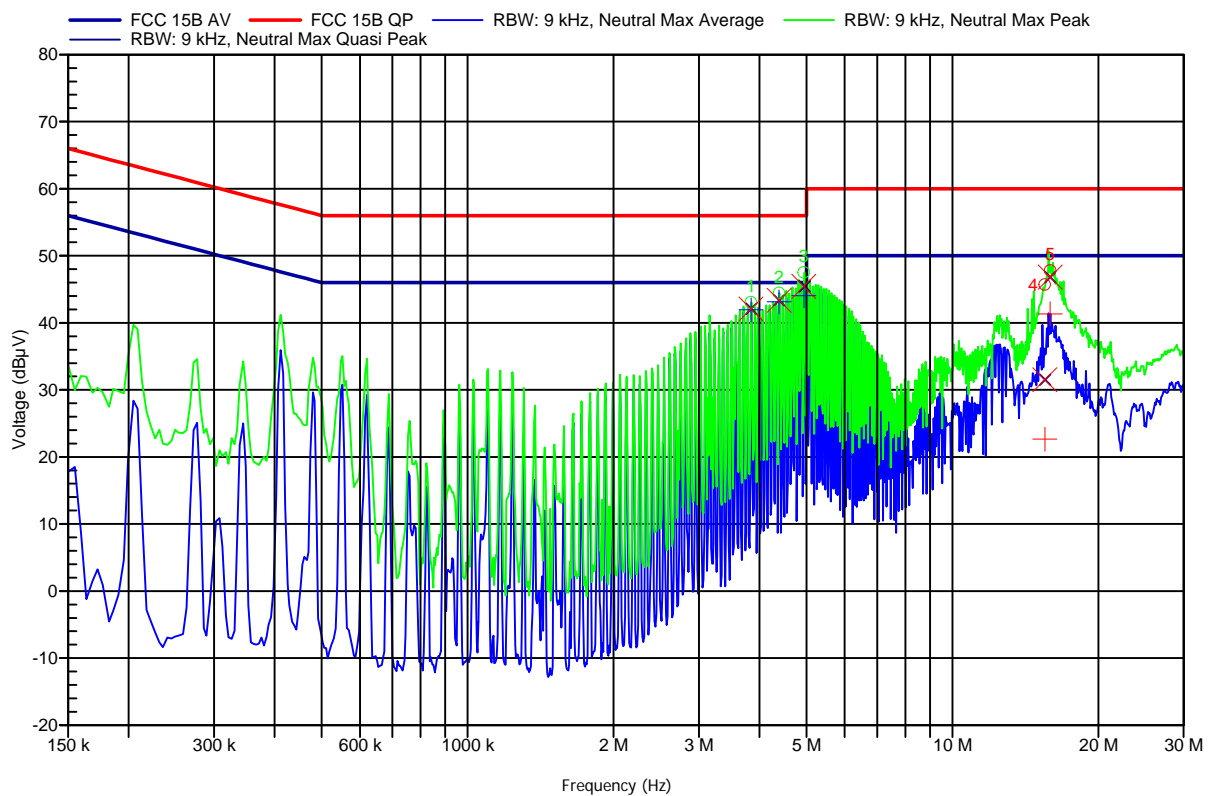


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 LISN: ESH2-Z5 N  
 Mode: SC200 controller: LXG404+ANISE probe: LXG440, Ser.: 1386813, (DC-DC Converter TRACO)  
 Test Date: 20.07.2011  
 Note: PASS

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Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Status
3,843 MHz	42,09 dBuV	56 dBuV	-13,91 dB	Pass
4,392 MHz	43,37 dBuV	56 dBuV	-12,63 dB	Pass
4,942 MHz	45,43 dBuV	56 dBuV	-10,57 dB	Pass
15,514 MHz	31,52 dBuV	60 dBuV	-28,48 dB	Pass
15,915 MHz	46,82 dBuV	60 dBuV	-13,18 dB	Pass

Frequency	Average	Average Limit	Average Difference	Status
3,843 MHz	41,93 dBuV	46 dBuV	-4,07 dB	Pass
4,392 MHz	43,13 dBuV	46 dBuV	-2,87 dB	Pass
4,942 MHz	44,04 dBuV	46 dBuV	-1,96 dB	Pass
15,514 MHz	22,64 dBuV	50 dBuV	-27,36 dB	Pass
15,915 MHz	41,35 dBuV	50 dBuV	-8,65 dB	Pass

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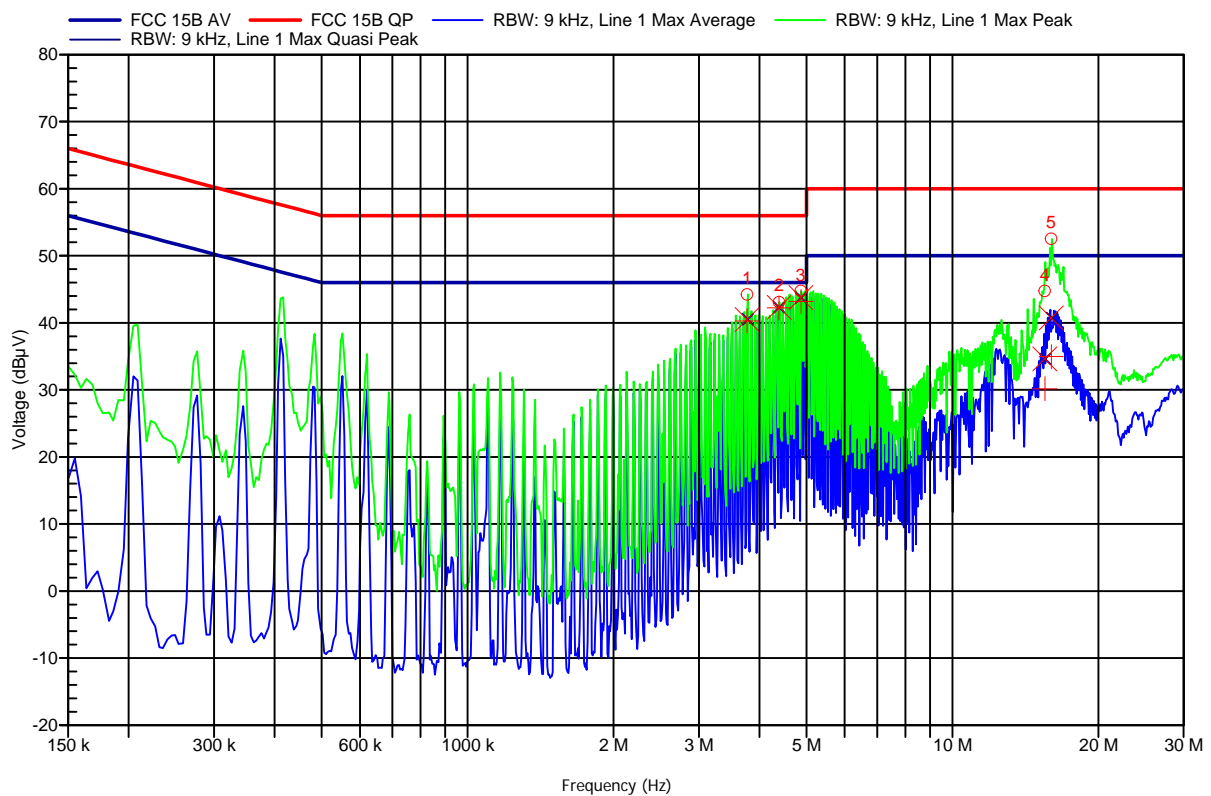
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Test Date: 20.07.2011  
Note: PASS

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Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Status
3,772 MHz	40,51 dBμV	56 dBμV	-15,49 dB	Pass
4,393 MHz	42,3 dBμV	56 dBμV	-13,7 dB	Pass
4,873 MHz	43,75 dBμV	56 dBμV	-12,25 dB	Pass
15,513 MHz	34,61 dBμV	60 dBμV	-25,39 dB	Pass
15,994 MHz	40,72 dBμV	60 dBμV	-19,28 dB	Pass

Frequency	Average	Average Limit	Average Difference	Status
3,772 MHz	40,3 dBμV	46 dBμV	-5,7 dB	Pass
4,393 MHz	42,22 dBμV	46 dBμV	-3,78 dB	Pass
4,873 MHz	43,18 dBμV	46 dBμV	-2,82 dB	Pass
15,513 MHz	30,17 dBμV	50 dBμV	-19,83 dB	Pass
15,994 MHz	34,97 dBμV	50 dBμV	-15,03 dB	Pass

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