

EMC TEST REPORT

FCC 47 CFR Part 15B
Industry Canada RSS-Gen

Electromagnetic compatibility - Unintentional radiators

Report Reference No. : G0M-1202-1744-EF01-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 : Kieback und Peter GmbH & Co. KG

Address : Tempelhofer Weg 50
12347 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 Room Operating Panel

Model No. RBW3xx-FTL

Hardware version 66735101

Firmware / Software version Funkchip_315

FCC-ID: NY3RBW322FTL

IC: 10353A-RBW322FTL

Test result Passed

Test Report No.: G0M-1202-1744-EF01-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..... : 2012-02-23

Date (s) of performance of tests..... : 2012-02-23

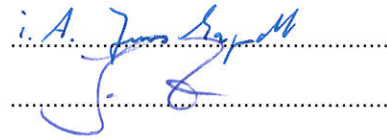
Compiled by..... : Christian Weber

Tested by (+ signature) : Andreas Pflug

Approved by (+ signature) : Jens Zimmermann

Date of issue..... : 2012-08-31

Total number of pages : 18


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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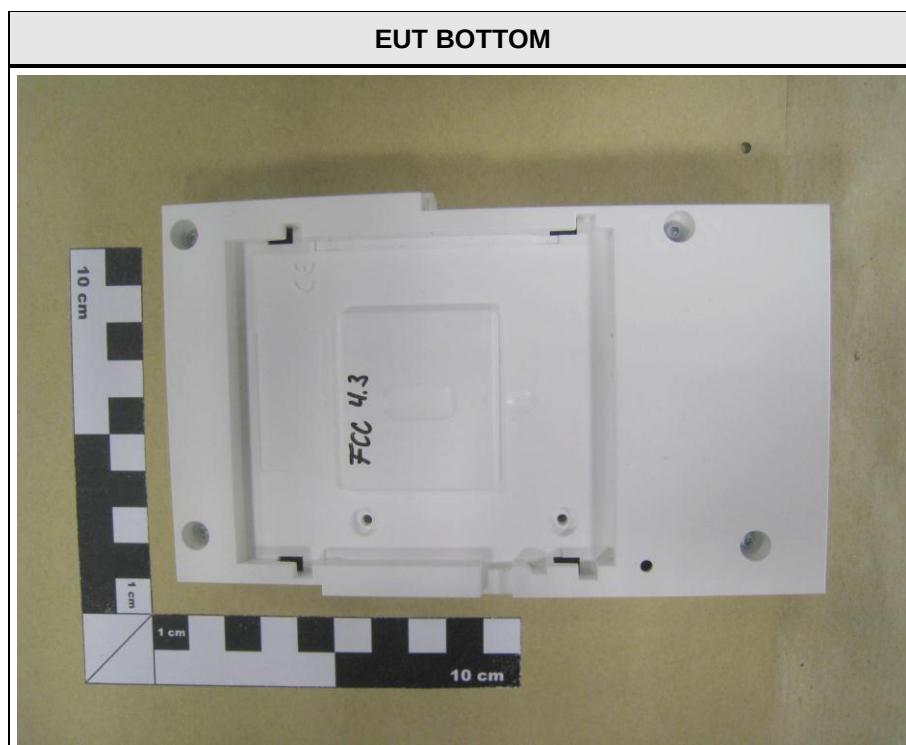
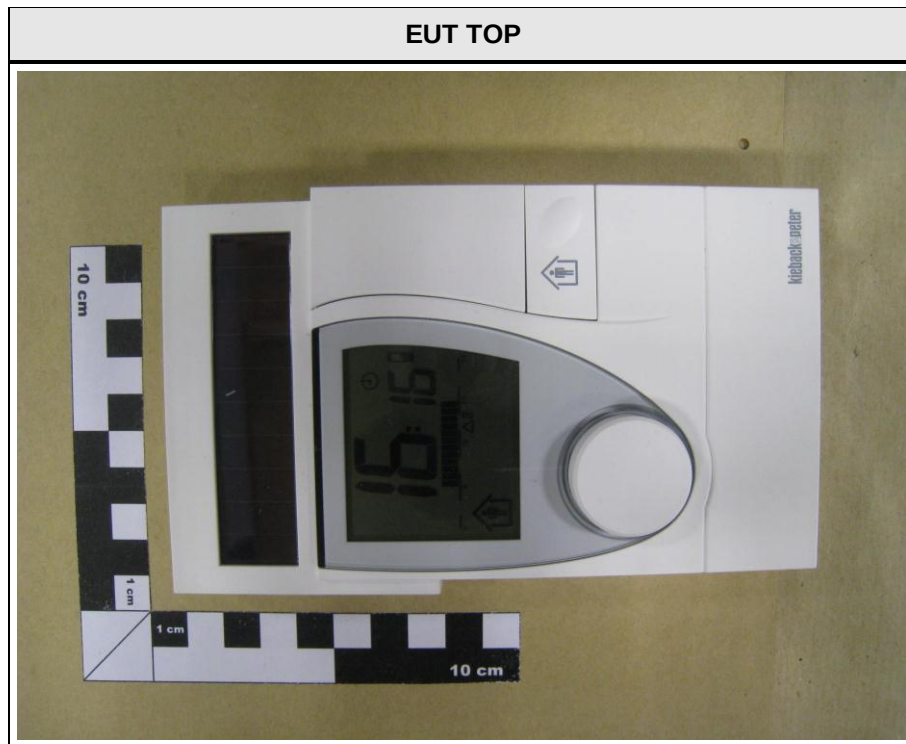
REPORT INDEX

1	EQUIPMENT (TEST ITEM) DESCRIPTION	4
1.1	Photos – Equipment external	5
1.2	Photos – Equipment internal	6
1.3	Photos – Test setup	7
1.4	Supporting Equipment Used During Testing	8
1.5	Operating Modes	9
1.6	Test Equipment Used During Testing	10
2	RESULT SUMMARY	11
3	TEST CONDITIONS AND RESULTS	12
3.1	Test Conditions and Results – Radiated emissions	12

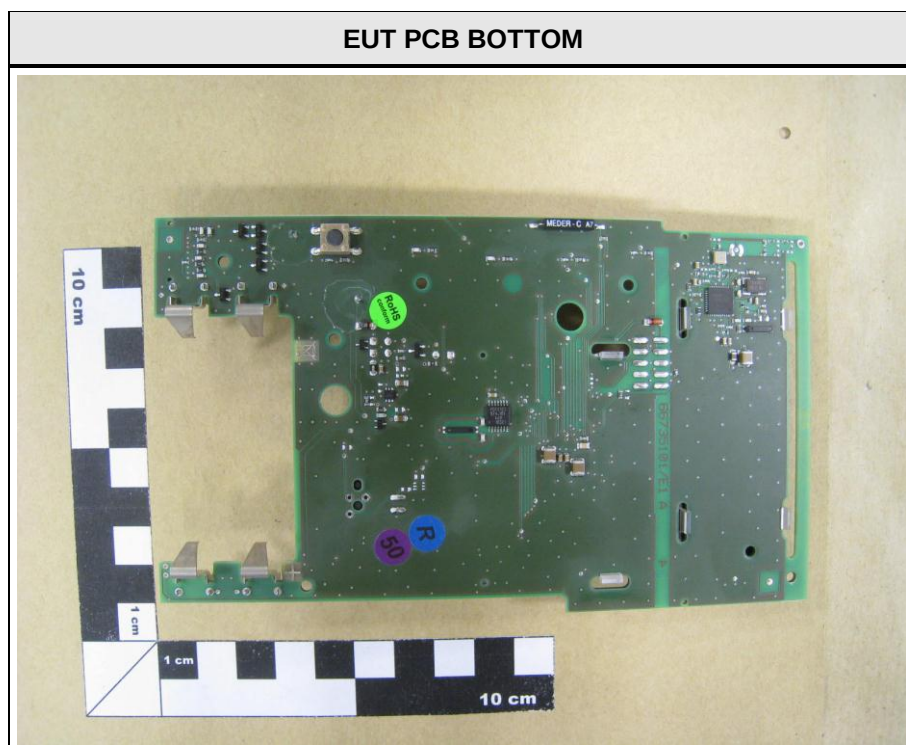
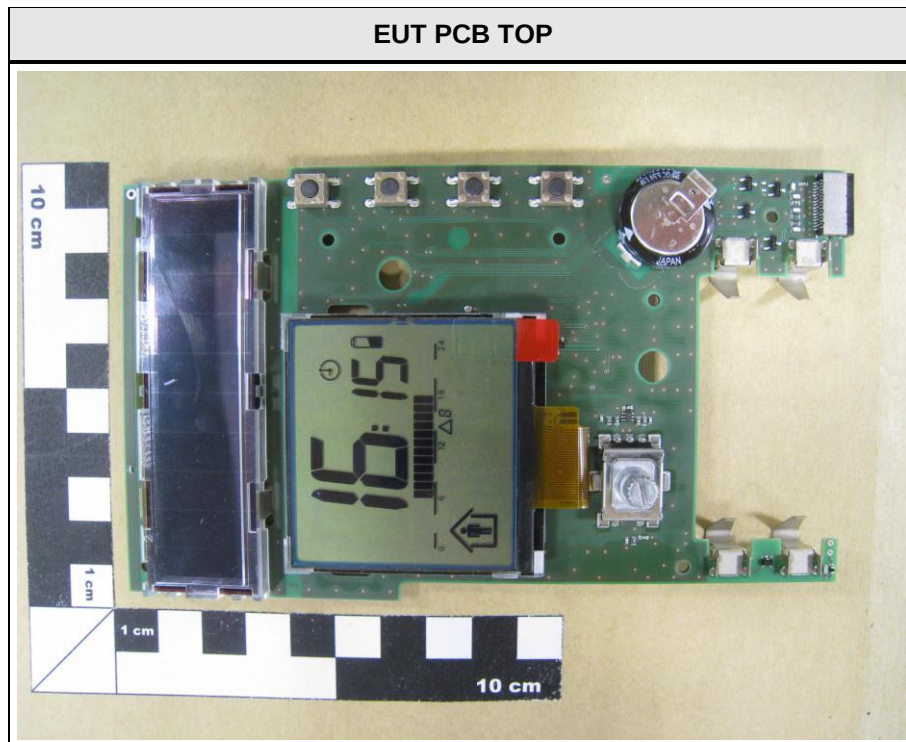
1 Equipment (Test item) Description

Description	Room Operating Panel
Model	RBW3xx-FTL
Serial number	None
Hardware version	66735101
Software / Firmware version	Funkchip_315
FCC-ID	NY3RBW322FTL
IC	10353A-RBW322FTL
Power supply	3.6VDC (Battery)
AC/DC-Adaptor	None
Manufacturer	Kieback und Peter GmbH & Co. KG Tempelhofer Weg 50 12347 Berlin GERMANY
Highest emission frequency	Fmax [MHz] = 315
Device classification	Class B
Equipment type	Tabletop
Number of tested samples	1

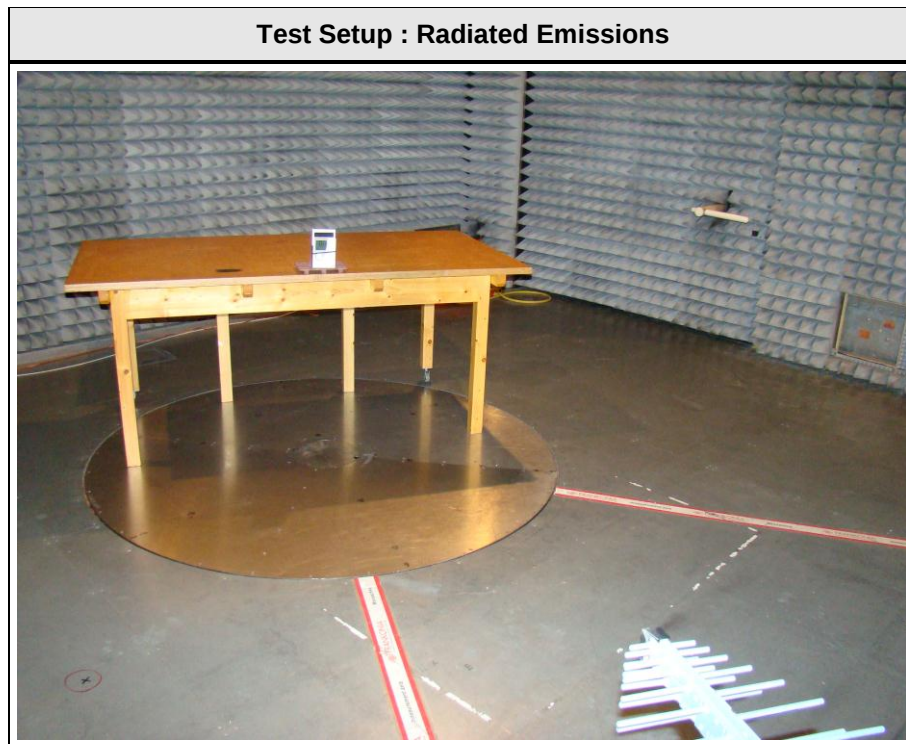
1.1 Photos – Equipment external



1.2 Photos – Equipment internal



1.3 Photos – Test setup



1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
None				
*Note: Use the following abbreviations: AE : Auxiliary/Associated Equipment, or SIM : Simulator (Not Subjected to Test) CABL : Connecting cables				

1.5 Operating Modes

Mode #	Description
1	EUT continuously transmitting

1.6 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	ESU8	Inv. No. 0567	Dec 11	Dec 12
EMI Test Receiver	R&S	ESCS30	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 15.109 RSS-Gen 4.9 & 4.10	Radiated emissions	ANSI C 63.4	PASS	
47 CFR 15.107 RSS-Gen 7.2.4	AC power line conducted emissions	ANSI C63.4	N/A	EUT battery powered
Remarks:				

3 Test Conditions and Results

3.1 Test Conditions and Results – Radiated emissions

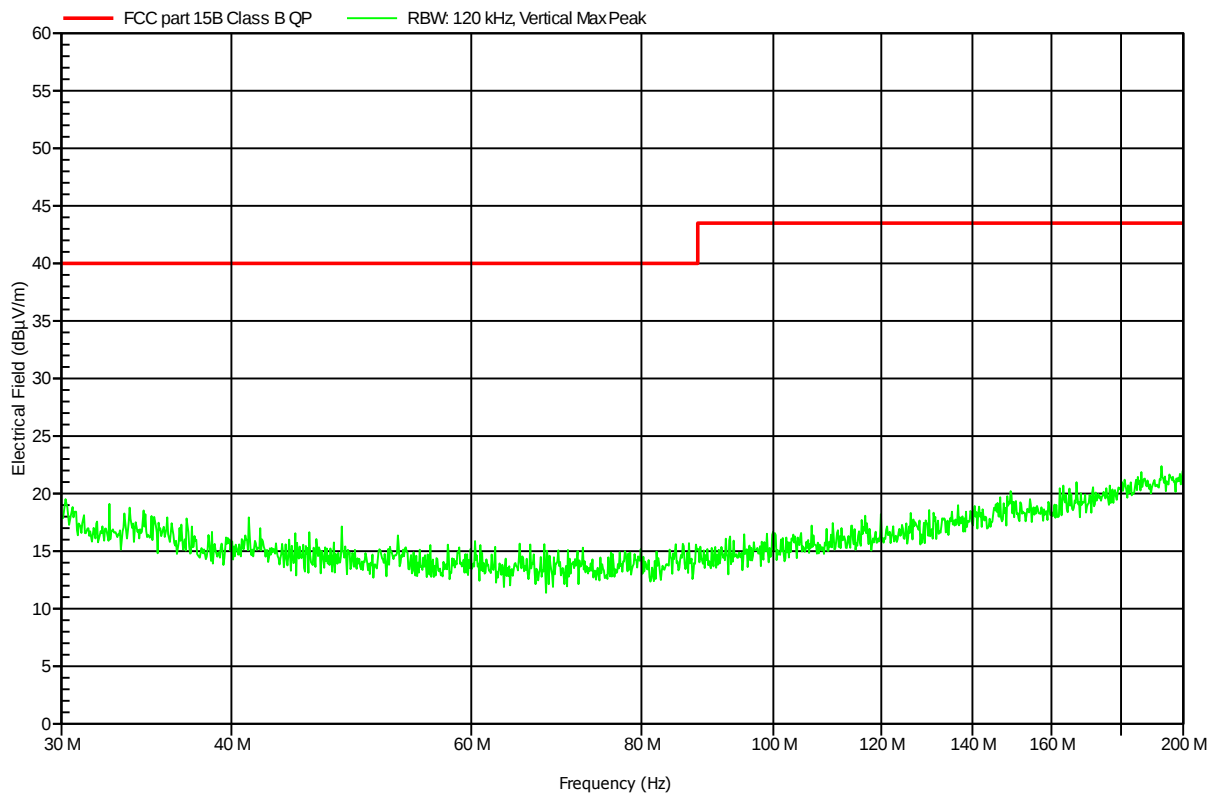
Radiated emissions acc. FCC 47 CFR 15.109 / IC RSS-Gen					Verdict: PASS		
Laboratory Parameters:		Required prior to the test			During the test		
Ambient Temperature		15 to 35°C			23°C		
Relative Humidity		30 to 60%			35%		
Test according referenced standards		Reference Method					
		ANSI C63.4					
Sample is tested with respect to the requirements of the equipment class		Equipment class					
		Class B					
Test frequency range determined from highest emission frequency		Highest emission frequency					
		Fmax [MHz] = 315					
Fully configured sample scanned over the following frequency range		Frequency range					
		30 MHz to 5 GHz					
Operating mode		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:							

Spurious emissions under normal conditions according to FCC Part 15b

Project number: GOM1202-1744

Manufacturer: Kieback & Peter GmbH & Co. KG
 EUT Name: Room Operating Panel
 Model: RBW3xx-FTL
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pflug
 Test Conditions: Tnom: 23°C, Unom: 3.6 VDC (battery)
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3m
 Mode: transmit
 Test Date: 2012-02-23
 Note:

Index 2

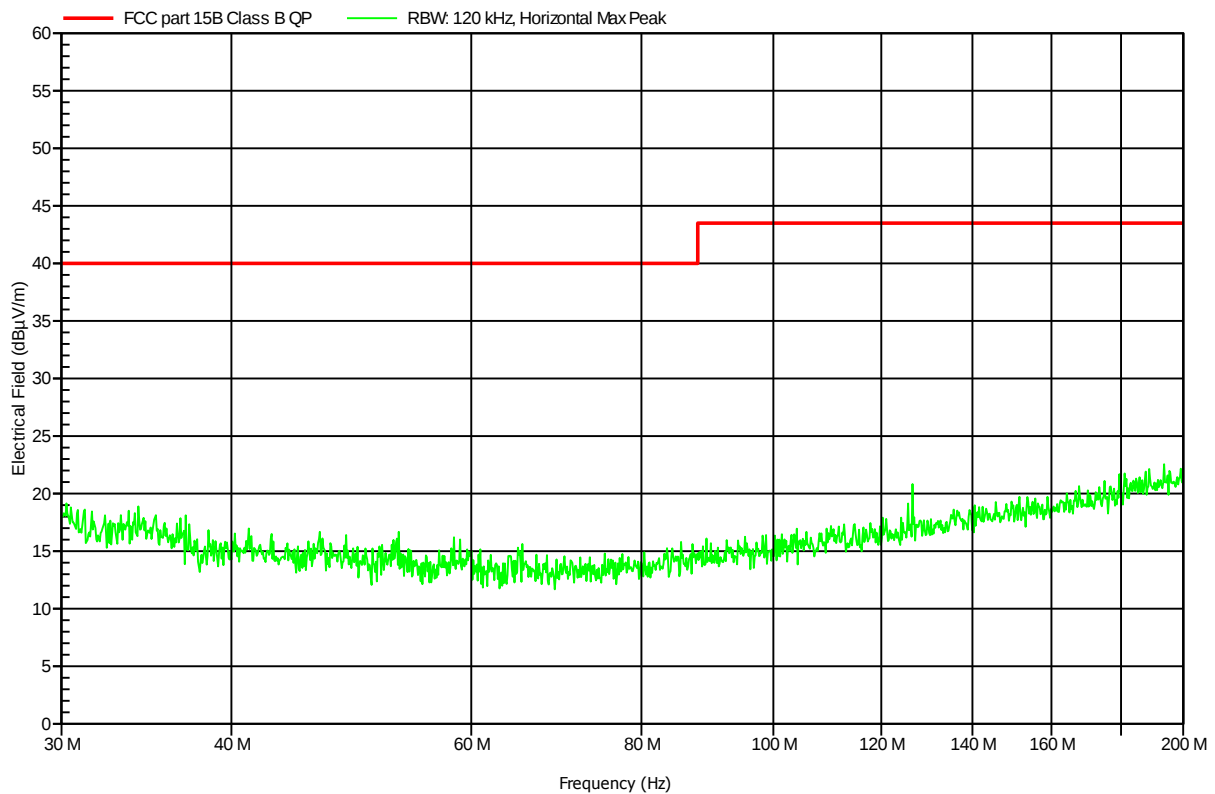


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 Note:

Index 1

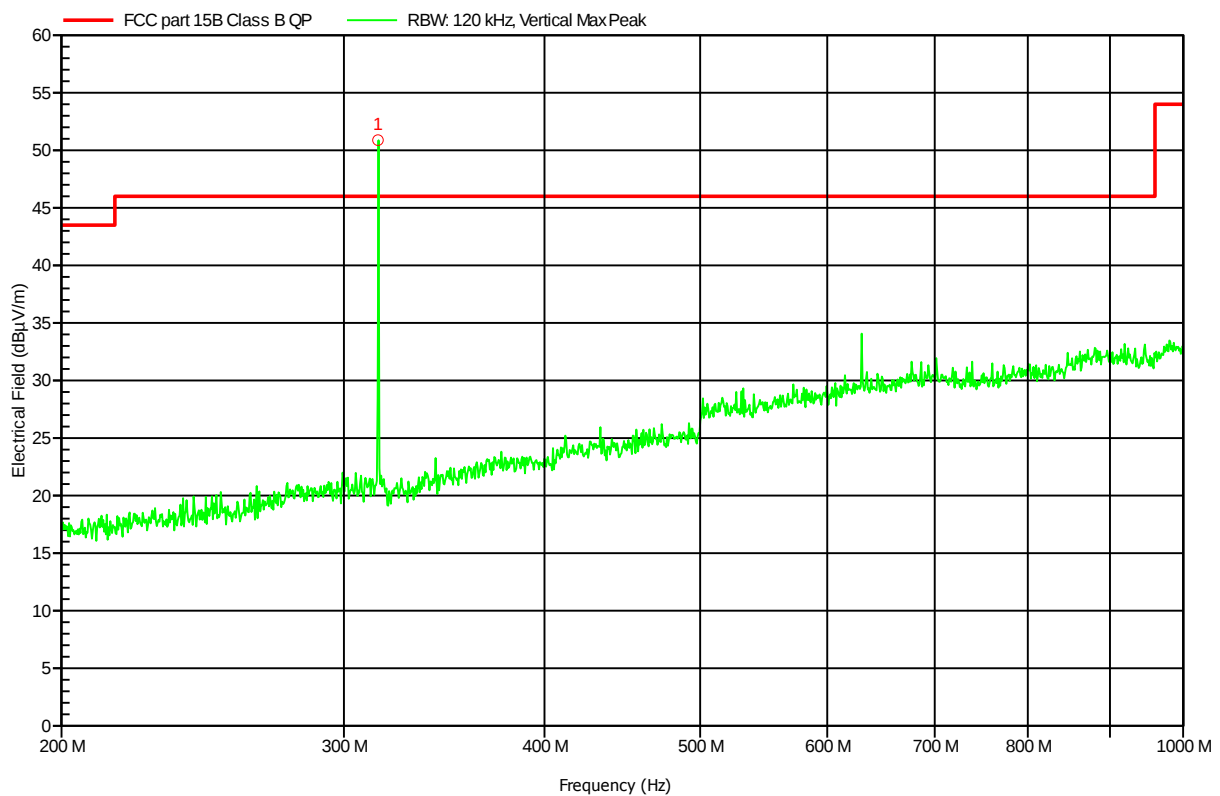


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 Operator: Mr. Pflug
 Test Conditions: Tnom: 23°C, Unom: 3.6 VDC (battery)
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3m
 Mode: transmit with notch-filter for 315 MHz
 Test Date: 2012-02-23
 Note:

Index 3



Frequency
 315.02 MHz TX-frequency

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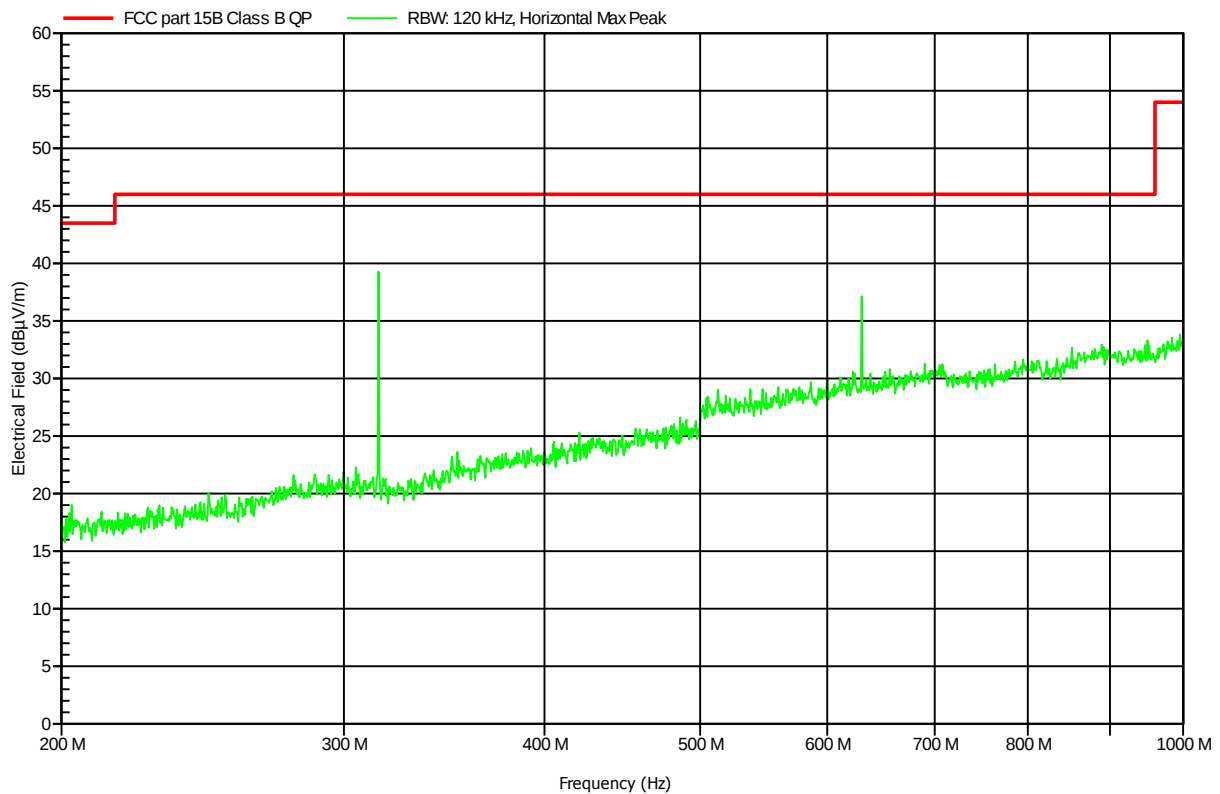
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 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pflug
 Test Conditions: Tnom: 23°C, Unom: 3.6 VDC (battery)
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3m
 Mode: transmit with notch-filter for 315 MHz
 Test Date: 2012-02-23
 Note:

Index 4



Frequency
 315.02 MHz TX-frequency

Test Report No.: GOM-1202-1744-EF01-V01

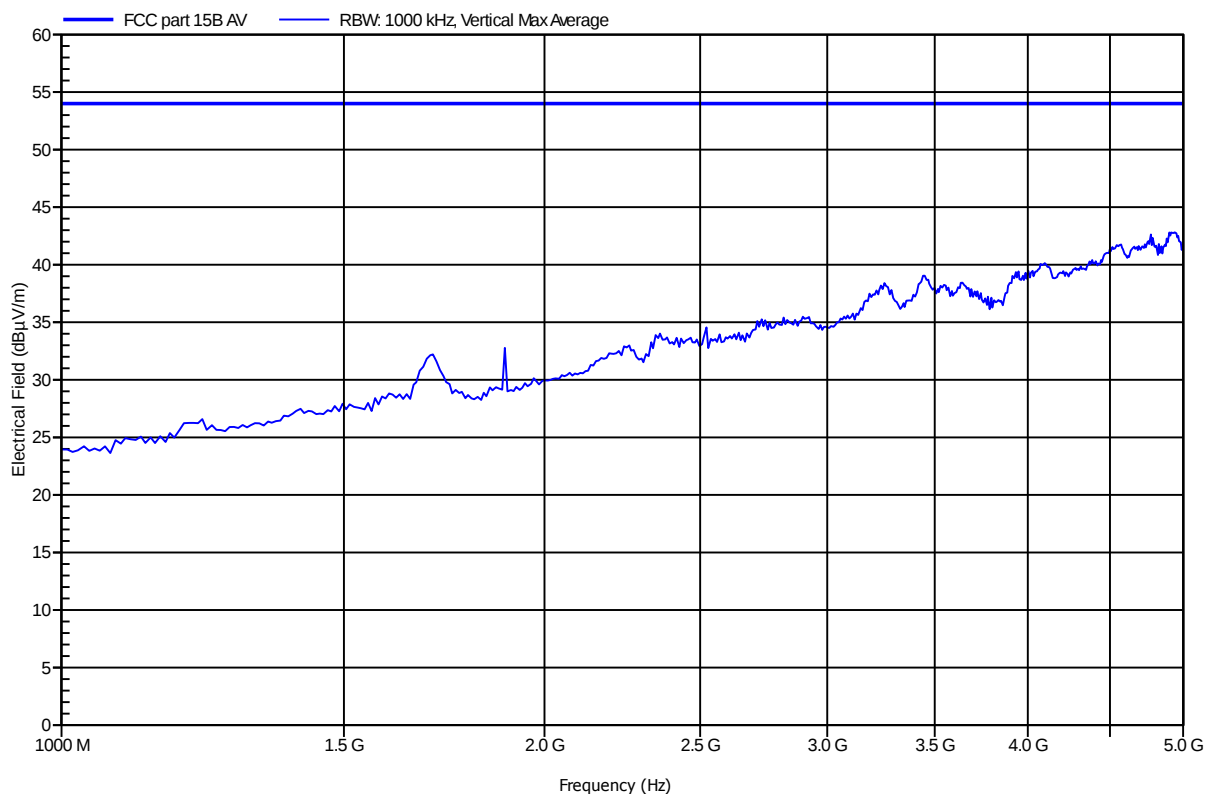
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Spurious emissions under normal conditions according to FCC Part 15b

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 EUT Name: Room Operating Panel
 Model: RBW3xx-FTL
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pflug
 Test Conditions: Tnom: 23°C, Unom: 3.6 VDC (battery)
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3m
 Mode: transmit
 Test Date: 2012-02-23
 Note:

Index 7



Spurious emissions under normal conditions according to FCC Part 15b

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 EUT Name: Room Operating Panel
 Model: RBW3xx-FTL
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pflug
 Test Conditions: Tnom: 23°C, Unom: 3.6 VDC (battery)
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3m
 Mode: transmit
 Test Date: 2012-02-23
 Note:

Index 6

