

**FCC TEST REPORT**

FCC 47 CFR Part 22H  
 Industry Canada RSS-132, Issue 2  
 Cellular Telephones Operating in the Bands 824-849MHz and 869-894MHz

FCC 47 CFR Part 24E  
 Industry Canada RSS-133, Issue 5  
 2GHz Personal Communication Services

FCC 47 CFR PART 27C  
 Industry Canada RSS-139, Issue 2  
 Miscellaneous Wireless Communications Services

**Report Reference No.** ..... : G0M-1309-3226-TFC224M-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** ..... : Biotronik SE & Co. KG

**Address** ..... : Woermannkehre 1  
 12359 Berlin GERMANY

**Test specification:**

**Standard**..... : 47 CFR Part 22H, 47 CFR Part 24E; 47 CFR Part 27C  
 RSS-132, Issue 2 : 2005-09, RSS-133, Issue 5 : 2009-02  
 IC RSS 139 Issue 2,2009-02  
 SRSP-503 Issue 7 : SRSP-510 Issue 5; SRSP-513 Issue 2:  
 RSS-Gen, Issue 3, 2010-12, ANSI/TIA-603-C-2004

**Equipment under test (EUT):**

Product description	Telemonitoring System	
Model No.	CardioMessenger Smart 3G	
Hardware version	CardioMessenger Smart 3G mit LP, Best.LP1/TelexSmart3G, LP, Best.LP1/TelexSmart3G_JP Rev. Dx	
Firmware / Software version	SMARTAPP 1.x	
	FCC-ID: QRICMSMART	IC: 4708A-CMSMART

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

**Possible test case verdicts:**

- neither assessed nor tested ..... : N/N
- required by standard but not appl. to test object ..... : N/A
- required by standard but not tested ..... : N/T
- not required by standard for the test object ..... : N/R
- test object does meet the requirement ..... : P (Pass)
- test object does not meet the requirement ..... : F (Fail)

**Testing:**

Date of receipt of test item ..... : 2013-11-19

Date (s) of performance of tests ..... : 2013-12-10 - 2013-12-16

Compiled by ..... : Antje Bartusch

Tested by (+ signature) ..... : Burkhard Pudell  
 (Testing Manager) *B. Pudell*

Approved by (+ signature) ..... : Christian Weber  
 (Test Lab Manager) *C. Weber*

Date of issue ..... : 2013-12-17

Total number of pages ..... : 224

**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:**

Test case selection is based on full modular approval of licensed transmitter module used by the EUT. The EUT uses a GPRS/EGPRS & HSDPA/HSUPA module with full modular approval according to FCC and IC rules. For details about the radio module see EUT description in section 1.

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## Version History

Version	Issue Date	Remarks	Revised by
01	2013-12-17	Initial Release	

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## REPORT INDEX

Miscellaneous Wireless Communications Services	1
<b>1 EQUIPMENT (TEST ITEM) DESCRIPTION</b>	<b>5</b>
1.1 Photos – Equipment External	7
1.2 Photos – Equipment internal	8
1.3 Photos – Test setup	9
1.4 Supporting Equipment Used During Testing	10
1.5 Test Modes	11
1.6 Test Equipment Used During Testing	13
1.7 Sample emission level calculation	14
<b>2 RESULT SUMMARY</b>	<b>15</b>
<b>3 TEST CONDITIONS AND RESULTS</b>	<b>16</b>
3.1 Test Conditions and Results – Occupied Bandwidth	16
3.2 Test Conditions and Results – Effective radiated power / Equivalent isotropic radiated power	39
3.3 Test Conditions and Results – Transmitter radiated emissions	41
3.4 Test Conditions and Results – Receiver radiated emissions	43
ANNEX A Transmitter radiated spurious emissions	45
ANNEX B Receiver radiated spurious emissions	189

## 1 Equipment (Test item) Description

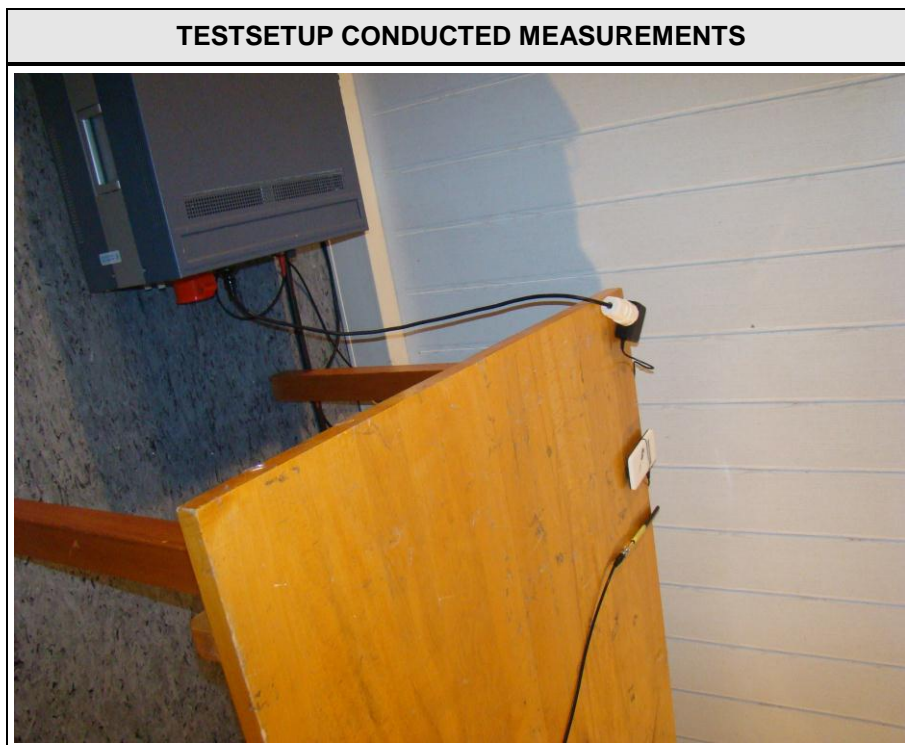
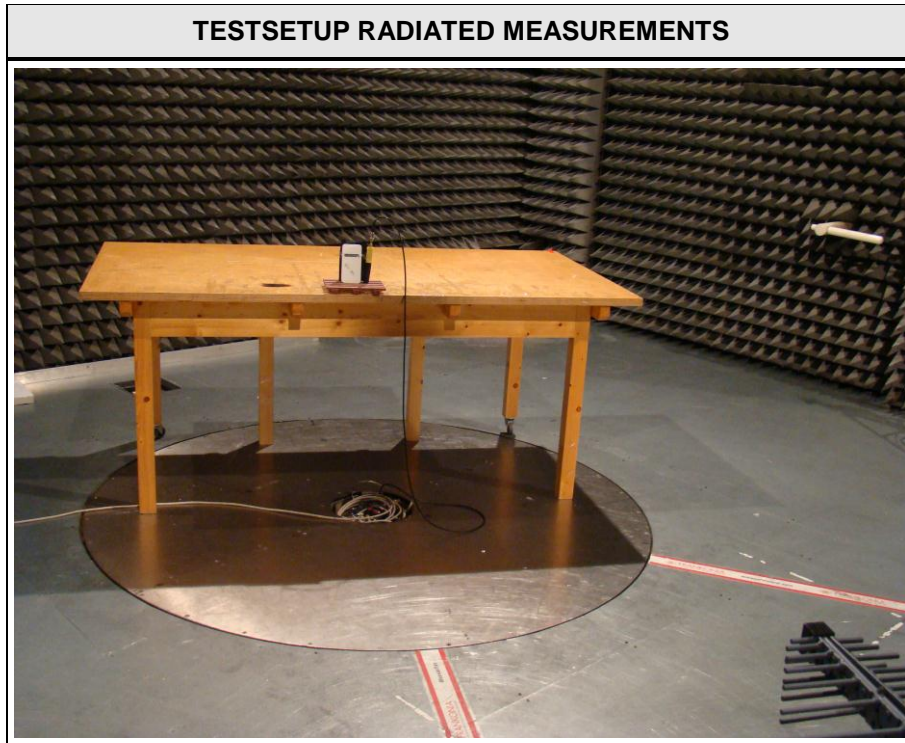
<b>Description</b>	Telemonitoring System		
<b>Model</b>	CardioMessenger Smart 3G		
<b>Serial number</b>	None		
<b>Hardware version</b>	CardioMessenger Smart 3G mit LP, Best.LP1/TelexSmart3G, LP, Best.LP1/TelexSmart3G_JP Rev. Dx		
<b>Software / Firmware version</b>	SMARTAPP 1.x		
<b>FCC-ID</b>	QRICMSMART		
<b>IC</b>	4708A-CMSMART		
<b>Equipment type</b>	End product		
<b>Equipment classification</b>	Portable Device (Human Body distance < 20 cm)		
<b>Radio type</b>	Transceiver		
<b>Radio technology</b>	GSM850 / GSM1900 / UMTS		
<b>Operating frequency range</b>	GSM850 : TX = 824 - 849 MHz, RX = 869 - 894 MHz GSM1900 : TX = 1850 - 1910 MHz, RX = 1930 - 1990 MHz FDDII : TX = 1850 MHz - 1910 MHz, RX = 1930 MHz - 1990 MHz FDDIV : TX = 1710 MHz - 1755 MHz; RX = 2110 MHz - 2155 MHz FDDV : 824 MHz - 849 MHz, RX = 869 MHz - 894 MHz		
<b>Assigned frequency band</b>	Cell. Service Block A & B : 824 - 849 MHz & 869 - 894 MHz Broadband PCS : 1850 - 1910 MHz & 1930 - 1990 MHz WCS : 1710 - 1755MHz & 2110 - 2155MHz		
<b>Main test frequencies GSM850</b>	F <sub>LOW</sub>	CH : 128 UL: 824.2 MHz	CH : 128 DL: 869.2 MHz
	F <sub>MID</sub>	CH : 188 UL: 836.2 MHz	CH : 188 DL: 881.2 MHz
	F <sub>HIGH</sub>	CH : 251 UL: 848.8 MHz	CH : 251 DL: 893.8 MHz
<b>Main test frequencies GSM1900</b>	F <sub>LOW</sub>	CH : 512 UL: 1850.2 MHz	CH : 512 DL: 1930.2 MHz
	F <sub>MID</sub>	CH : 661 UL: 1880.0 MHz	CH : 661 DL: 1960.0 MHz
	F <sub>HIGH</sub>	CH : 810 UL: 1909.8 MHz	CH : 810 DL: 1989.8 MHz
<b>Main test frequencies FDDII</b>	F <sub>LOW</sub>	CH : 9262 UL: 1852.4 MHz	CH : 9662 DL: 1932.4 MHz
	F <sub>MID</sub>	CH : 9400 UL: 1880 MHz	CH : 9800 DL: 1960 MHz
	F <sub>HIGH</sub>	CH : 9538 UL: 1907.6 MHz	CH : 9938 DL: 1987.6 MHz
<b>Main test frequencies FDDIV</b>	F <sub>LOW</sub>	CH : 1312 UL: 1712.4 MHz	CH : 1537 DL: 2112.4 MHz
	F <sub>MID</sub>	CH : 1450 UL: 1740 MHz	CH : 1675 DL: 2140 MHz
	F <sub>HIGH</sub>	CH : 1513 UL: 1752.6 MHz	CH : 1738 DL: 2152.6 MHz
<b>Main test frequencies FDDV</b>	F <sub>LOW</sub>	CH : 4132 UL: 826.4 MHz	CH : 4357 DL: 871.4 MHz
	F <sub>MID</sub>	CH : 4175 UL: 835 MHz	CH : 4400 DL: 880 MHz
	F <sub>HIGH</sub>	CH : 4233 UL: 846.6 MHz	CH : 4458 DL: 891.6 MHz
<b>Supported transmission modes</b>	GPRS, EGPRS, HSDPA, HSUPA		

<b>Modulations</b>	GPRS : GMSK EGPRS : 8-PSK HSDPA : QPSK, 16-QAM HSUPA : BPSK	
<b>Multislot class</b>	8	
<b>Number of antennas</b>	1	
<b>Radio module</b>	Type	GPRS/EDGE/UMTS/HSPA
	Model	HE910-D
	Manufacturer	Telit
	HW Version	0
	SW Version	12.00.024
	SVN	3
	FCC-ID	RI7HE910
	IC	5131A-HE910
	IMEI	35687005.000318.103
<b>Antenna</b>	Type	integrated
	Model	PCB Antenna
	Manufacturer	Biotronik
	Gain	GSM 850 = 1.6 dBi GPRS 1900 = 2.4 dBi FDDV = 1.6 dBi FDDII = 2.4 dBi FDDIV = 3.2 dBi
<b>Manufacturer</b>	Biotronik SE & Co. KG Woermannkehre 1 12359 Berlin GERMANY	
<b>Power supply</b>	V <sub>NOM</sub>	3.7VDC (Li-Ion Battery)
	V <sub>MIN</sub>	N/A
	V <sub>MIN</sub>	N/A
<b>AC/DC-Adaptor</b>	Model	N/A
	Vendor	N/A
	Input	N/A
	Output	N/A

1.1 Photos – Equipment External



1.3 Photos – Test setup





#### 1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
None				
<p><b>*Note:</b> Use the following abbreviations:</p> <p style="padding-left: 40px;">AE : Auxiliary/Associated Equipment, or</p> <p style="padding-left: 40px;">SIM : Simulator (Not Subjected to Test)</p> <p style="padding-left: 40px;">CABL : Connecting cables</p>				

**1.5 Test Modes**

Mode #	Description	
GPRS850	General conditions:	EUT powered by battery
	Radio conditions:	Mode = transmit Connection = packet switched Modulation = GMSK Slot configuration = 1 up / 1 down Power level = Maximum
EGPRS850	General conditions:	EUT powered by battery
	Radio conditions:	Mode = transmit Connection = packet switched Modulation = 8-PSK Slot configuration = 1 up / 1 down Power level = Maximum
GPRS1900	General conditions:	EUT powered by battery
	Radio conditions:	Mode = transmit Connection = packet switched Modulation = GMSK Slot configuration = 1 up / 1 down Power level = Maximum
EGPRS1900	General conditions:	EUT powered by battery
	Radio conditions:	Mode = transmit Connection = packet switched Modulation = 8-PSK Slot configuration = 1 up / 1 down Power level = Maximum
FDDV	General conditions:	EUT powered by battery
	Radio conditions:	Mode = transmit Connection = packet switched Modulation = QPSK Power level = Maximum
FDDII	General conditions:	EUT powered by battery
	Radio conditions:	Mode = transmit Connection = packet switched Modulation = QPSK Power level = Maximum

FDDIV	General conditions:	EUT powered by battery
	Radio conditions:	Mode = transmit Connection = packet switched Modulation = QPSK Power level = Maximum

**1.6 Test Equipment Used During Testing**

<b>Occupied Bandwidth</b>					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2013-01	2014-01

<b>Radiated power</b>					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Fully-anechoic chamber	Frankonia	AC 3	EF00199	--	--
Spectrum Analyzer	R&S	FSIQ 26	EF00242	2013-06	2014-06
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD Antenna	R&S	HL 223	EF00187	2011-02	2014-02
LPD Antenna	R&S	HL 025	EF00327	2013-02	2016-02

<b>Radiated spurious emissions</b>					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-anechoic chamber	Frankonia	AC 5	EF00395	--	--
Spectrum Analyzer	R&S	FSEK 30	EF00168	2012-12	2013-12
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD Antenna	R&S	HL 223	EF00212	2013-02	2016-02
LPD Antenna	R&S	HL 025	EF00327	2013-02	2016-02

## 1.7 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:

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

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:

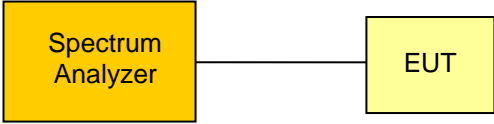
$$\begin{array}{rclcl} \text{Reading} & + & \text{AF} & = & \text{Net Reading} & : & \text{Net reading} - \text{FCC limit} & = & \text{Margin} \\ 21.5 \text{ dB}\mu\text{V} & + & 26 \text{ dB} & = & 47.5 \text{ dB}\mu\text{V/m} & : & 47.5 \text{ dB}\mu\text{V/m} - 57.0 \text{ dB}\mu\text{V/m} & = & -9.5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

## 2 Result Summary

FCC 47 CFR Part 22H, 24E, 27C / IC RSS-132, 133, 139				
Product Specific Standard Section	Requirement – Test	Reference Method	Result	Remarks
RSS-Gen 4.6.1	Occupied Bandwidth	RSS-Gen 4.6.1		Informational only
FCC § 24.235 FCC § 22.355 FCC § 27.54 IC RSS-132 § 4.3 IC RSS-133 § 6.3	Frequency stability	FCC § 24.235 FCC § 22.355 FCC § 27.54 IC RSS-132 § 4.3 IC RSS-133 § 6.3	N/R	Conducted results of licensed radio unaffected. See module radio report.
FCC § 22.913(a)	Effective radiated power	ANSI/TIA-603-C	PASS	
FCC § 24.232(c) FCC § 27.50(d)(4) IC RSS-132 § 4.4 IC RSS-133 § 6.4 IC RSS-139 § 6.4	Equivalent isotropic radiated power	ANSI/TIA-603-C	PASS	
FCC § 24.232(d) FCC § 27.50(d)(5) IC RSS-133 § 6.4	Peak to average ratio	FCC § 24.232(d) FCC § 27.50(d)(5) IC RSS-133 § 6.4	N/R	Conducted results of licensed radio unaffected. See module radio report
FCC § 22.917(b) FCC § 24.238(b) FCC § 27.53(h)(1) IC RSS-132 § 4.5 IC RSS-133 § 6.5	Band-edge compliance	FCC § 22.917(b) FCC § 24.238(b) FCC § 27.53(h)(1) IC RSS-132 § 4.5 IC RSS-133 § 6.5	N/R	Conducted results of licensed radio unaffected. See module radio report
FCC § 22.917(a) FCC § 24.238(a) FCC § 27.53(h) IC RSS-132 § 4.5 IC RSS-133 § 6.4	Conducted out-of-band emissions	FCC § 22.917(a) FCC § 24.238(a) FCC § 27.53(h) IC RSS-132 § 4.5 IC RSS-133 § 6.5	N/R	Conducted results of licensed radio unaffected. See module radio report
FCC § 22.917(a) FCC § 24.238(a) FCC § 27.53(h) IC RSS-132 § 4.5 IC RSS-133 § 6.5 IC RSS 139 § 6.5	Radiated out-of-band emissions	ANSI/TIA-603-C	PASS	
IC RSS-132 § 4.6 IC RSS-133 § 6.6 IC RSS 139 § 6.6 IC RSS-Gen 4.10 IC RSS-Gen 6.1	Receiver radiated spurious emissions	IC RSS-132 § 4.6 IC RSS-133 § 6.6 IC RSS-Gen 4.10 IC RSS-Gen 6.1	PASS	
<b>Remarks:</b>				

### 3 Test Conditions and Results

#### 3.1 Test Conditions and Results – Occupied Bandwidth

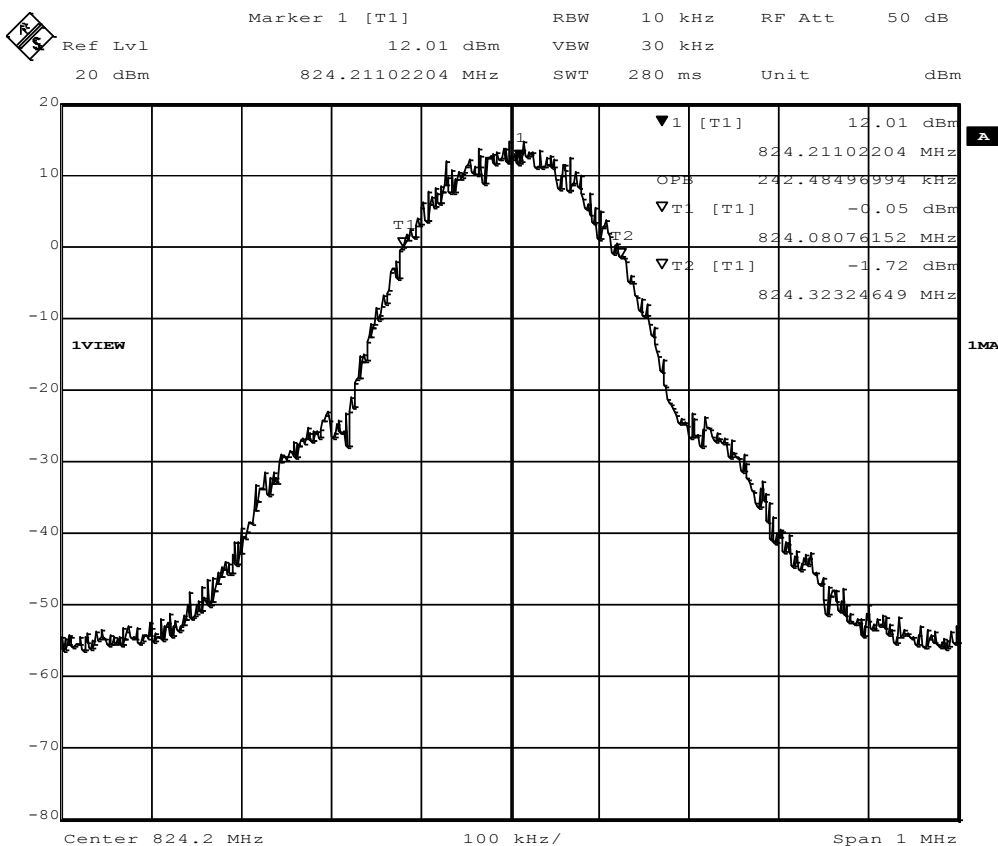
Occupied Bandwidth acc. IC RSS-Gen			
Test according to measurement reference	Reference Method		
	RSS-Gen 4.6.1		
Test frequency range	Tested frequencies		
	$F_{LOW} / F_{MID} / F_{HIGH}$		
<b>Limits</b>			
None (Informational only)			
<b>Test setup</b>			
 <pre> graph LR     SA[Spectrum Analyzer] --- EUT[EUT]             </pre>			
<b>Test procedure</b>			
<ol style="list-style-type: none"> <li>EUT set to test mode (Communication tester is used if needed)</li> <li>Span set to at least twice the emission spectrum</li> <li>Resolution bandwidth set to 1 % of span</li> <li>Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function</li> </ol>			
<b>Test results – GPRS 850</b>			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
$F_{LOW}$	824.2	GPRS850	242.484
$F_{MID}$	836.2	GPRS850	242.484
$F_{HIGH}$	848.8	GPRS850	242.414
<b>Test results – EDGE 850</b>			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
$F_{LOW}$	824.2	EDGE850	242.484
$F_{MID}$	836.2	EDGE850	242.484
$F_{HIGH}$	848.8	EDGE850	242.414
<b>Test results – GPRS 1900</b>			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
$F_{LOW}$	1850.2	GPRS1900	244.488
$F_{MID}$	1880	GPRS1900	244.488
$F_{HIGH}$	1909.8	GPRS1900	244.488

<b>Test results – EDGE 1900</b>			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
F <sub>LOW</sub>	1850.2	EDGE1900	304.609
F <sub>MID</sub>	1880	EDGE1900	312.625
F <sub>HIGH</sub>	1909.8	EDGE1900	344.689
<b>Test results – FDDV</b>			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
F <sub>LOW</sub>	826.4	FDDV	4128
F <sub>MID</sub>	835	FDDV	4108
F <sub>HIGH</sub>	846.6	FDDV	4108
<b>Test results – FDDII</b>			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
F <sub>LOW</sub>	1852.6	FDDII	4088
F <sub>MID</sub>	1880	FDDII	4108
F <sub>HIGH</sub>	1907.4	FDDII	4128
<b>Test results – FDDIV</b>			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
F <sub>LOW</sub>	1712.4	FDDIV	4188
F <sub>MID</sub>	1740	FDDIV	4188
F <sub>HIGH</sub>	1752.6	FDDIV	4148
Comments:			



**Occupied Bandwidth – GPRS850 F<sub>Low</sub>**
**IC RSS-132  
Occupied Bandwidth**

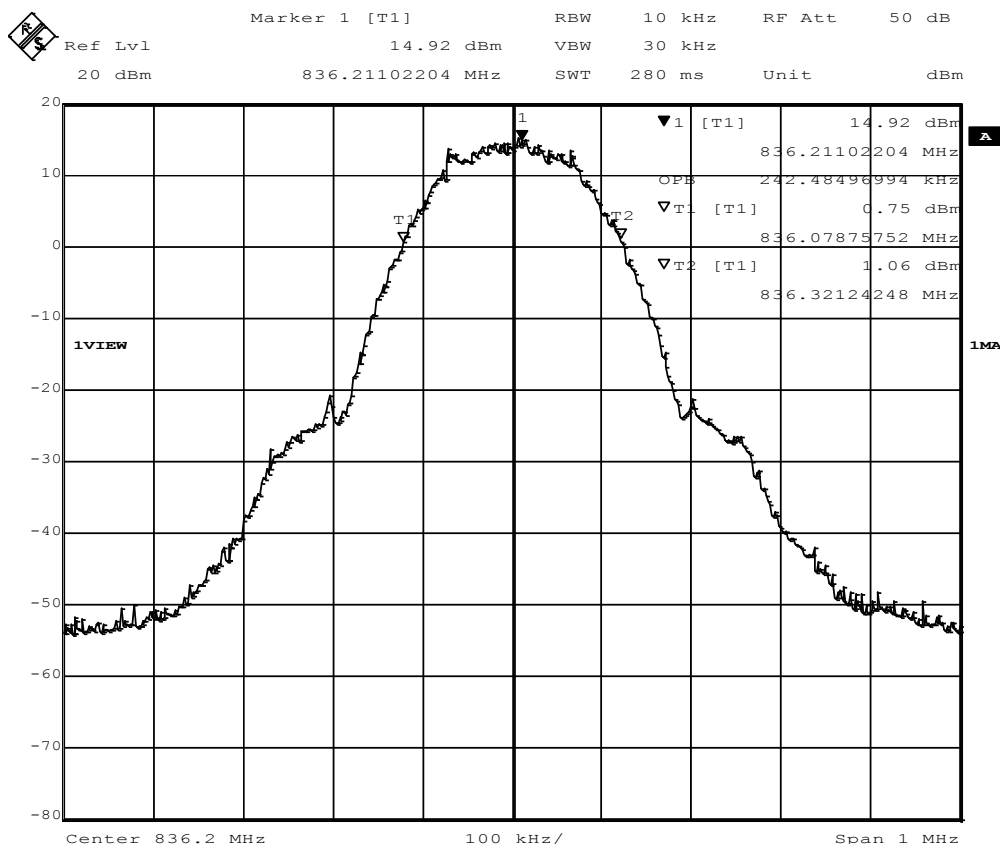
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-132
Comment 1	GPRS 850 / Gamma:3 ( 33 dBm ) / Main Slot 3
Comment 2	Channel: 128
Comment 3	



Comment A: Occupied\_Bandwidth\_:\_242.48496994\_kHz  
Date: 10.DEC.2013 10:50:06

**Occupied Bandwidth – GPRS850 F<sub>MID</sub>**
**IC RSS-132  
Occupied Bandwidth**

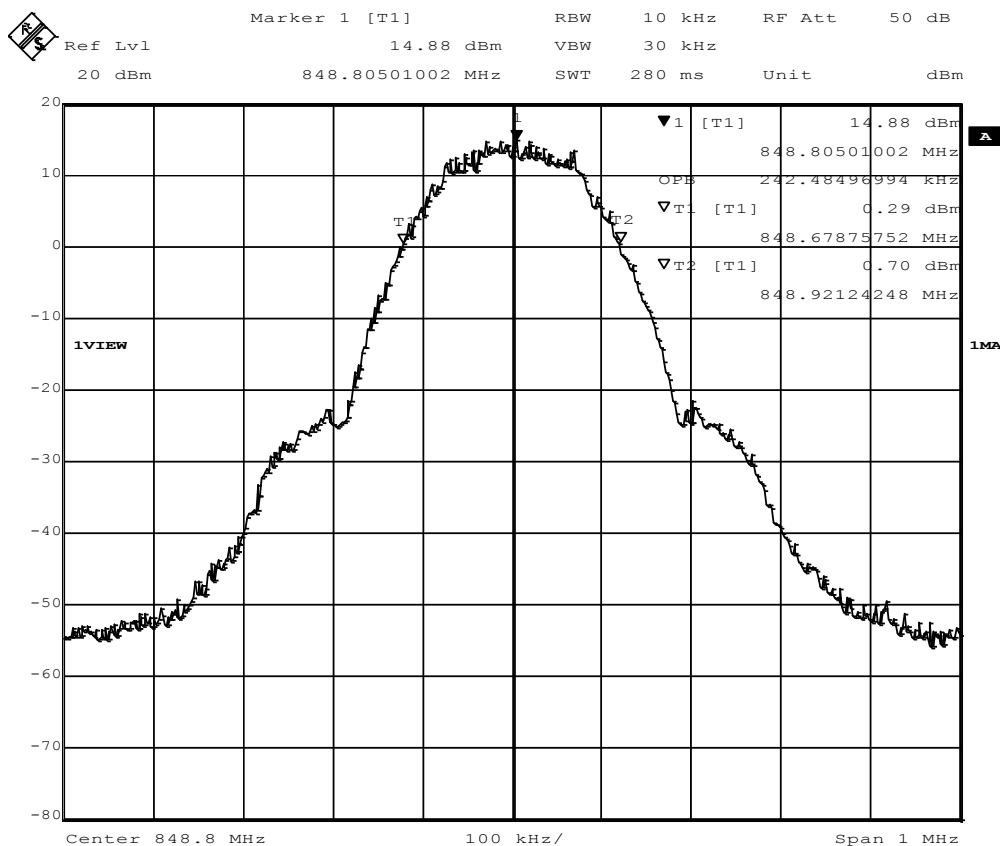
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-132
Comment 1	GPRS 850 / Gamma:3 ( 33 dBm ) / Main Slot 3
Comment 2	Channel: 188
Comment 3	



Comment A: Occupied\_Bandwidth\_:\_242.48496994\_kHz  
Date: 10.DEC.2013 10:45:12

**Occupied Bandwidth – GPRS850 F<sub>HIGH</sub>**
**IC RSS-132  
Occupied Bandwidth**

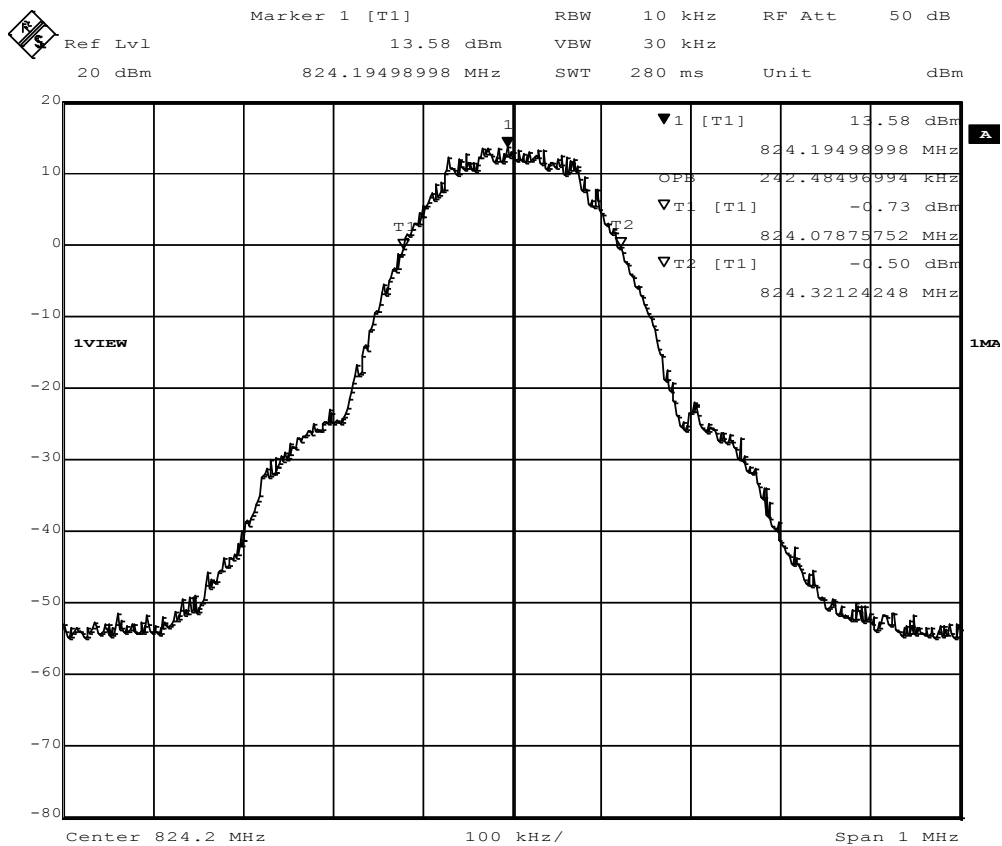
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-132
Comment 1	GPRS 850 / Gamma:3 ( 33 dBm ) / Main Slot 3
Comment 2	Channel: 251
Comment 3	



Comment A: Occupied\_Bandwidth\_:\_242.48496994\_kHz  
Date: 10.DEC.2013 10:53:11

**Occupied Bandwidth – EDGE 850 F<sub>Low</sub>**
**IC RSS-132  
Occupied Bandwidth**

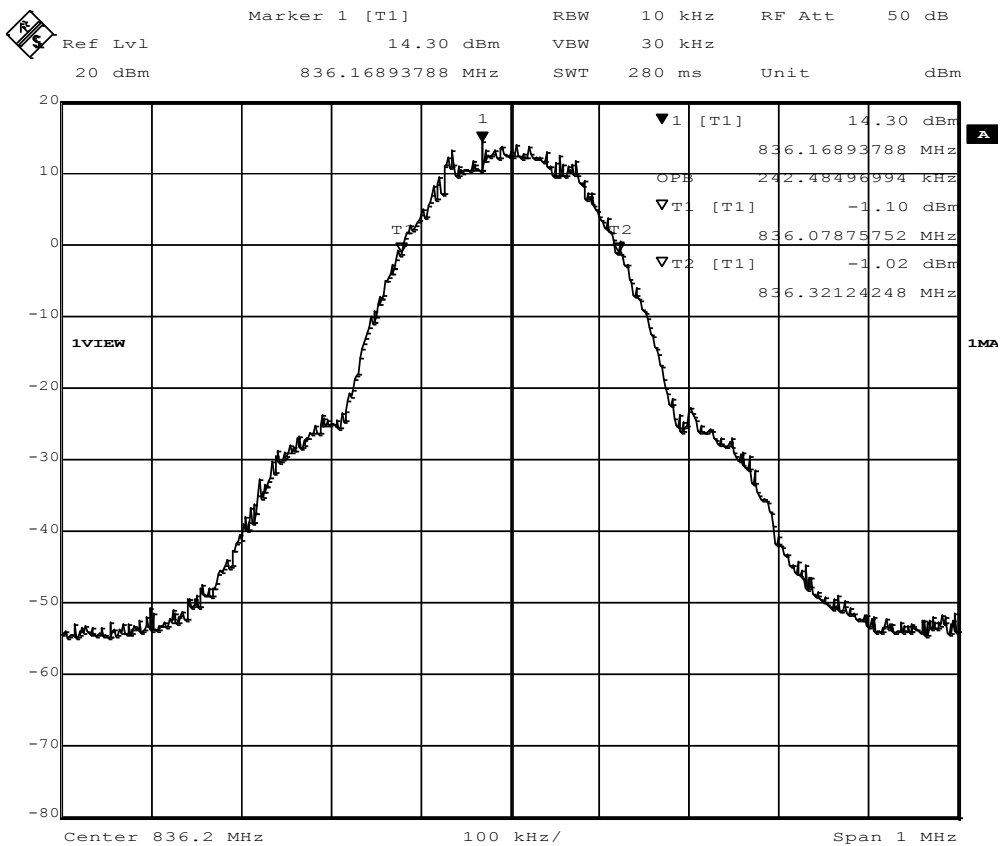
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-132
Comment 1	EDGE 850 / Gamma:6 ( 27 dBm ) / Main Slot 3
Comment 2	Channel: 128
Comment 3	



Comment A: Occupied\_Bandwidth\_:\_242.48496994\_kHz  
Date: 10.DEC.2013 11:02:44

**Occupied Bandwidth – EDGE 850 F<sub>MID</sub>**
**IC RSS-132  
Occupied Bandwidth**

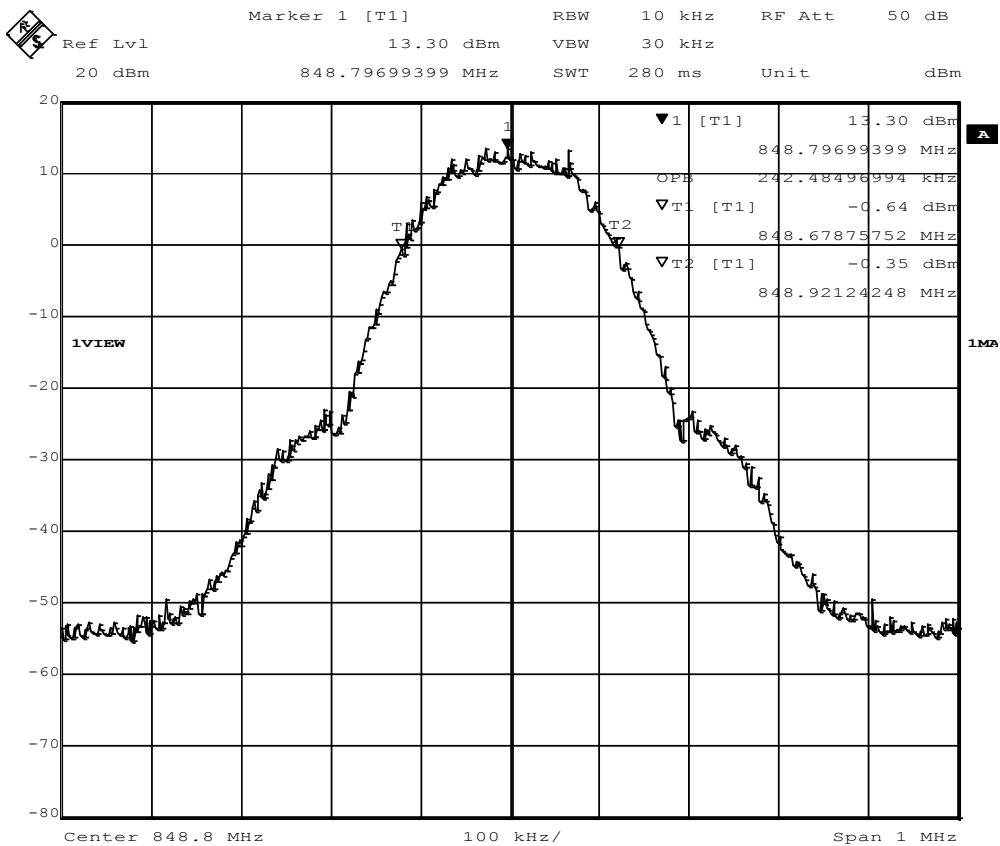
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-132
Comment 1	EDGE 850 / Gamma:6 ( 27 dBm ) / Main Slot 3
Comment 2	Channel: 188
Comment 3	



Comment A: Occupied\_Bandwidth\_:\_242.48496994\_kHz  
Date: 10.DEC.2013 10:59:42

**Occupied Bandwidth – EDGE 850 F<sub>HIGH</sub>**
**IC RSS-132  
Occupied Bandwidth**

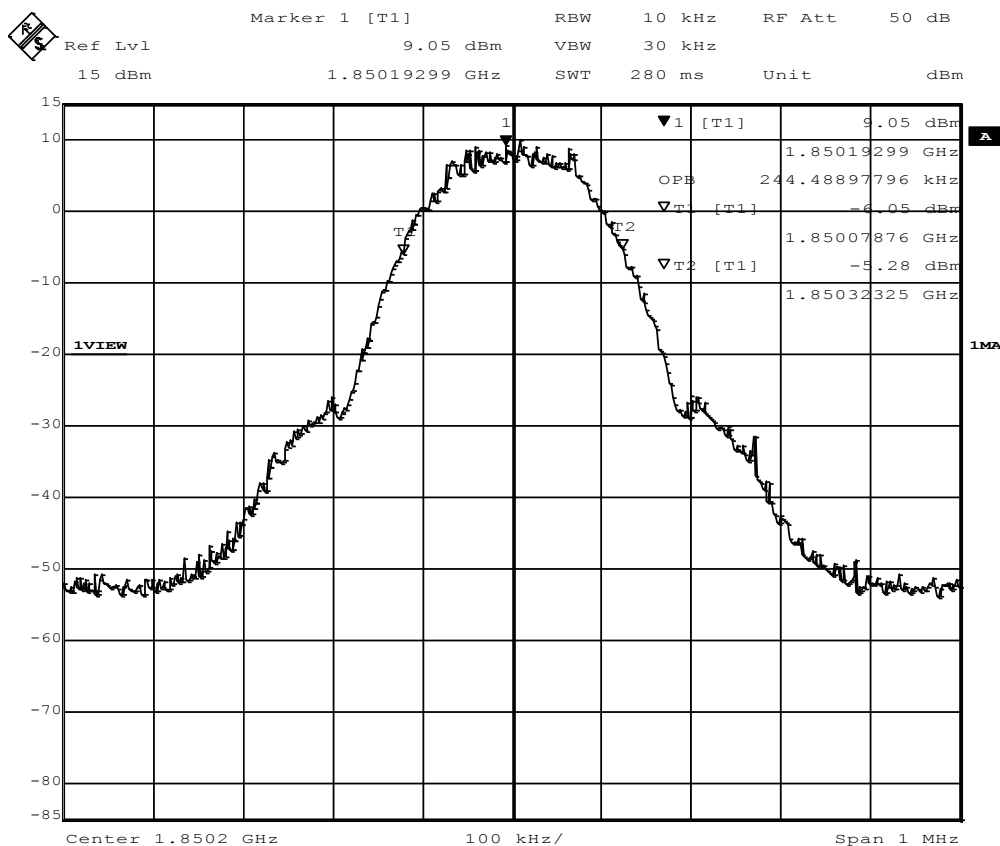
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-132
Comment 1	EDGE 850 / Gamma:6 ( 27 dBm ) / Main Slot 3
Comment 2	Channel: 251
Comment 3	



Comment A: Occupied\_Bandwidth\_:\_242.48496994\_kHz  
Date: 10.DEC.2013 10:56:45

**Occupied Bandwidth – GPRS1900 F<sub>Low</sub>**
**IC RSS-133  
Occupied Bandwidth**

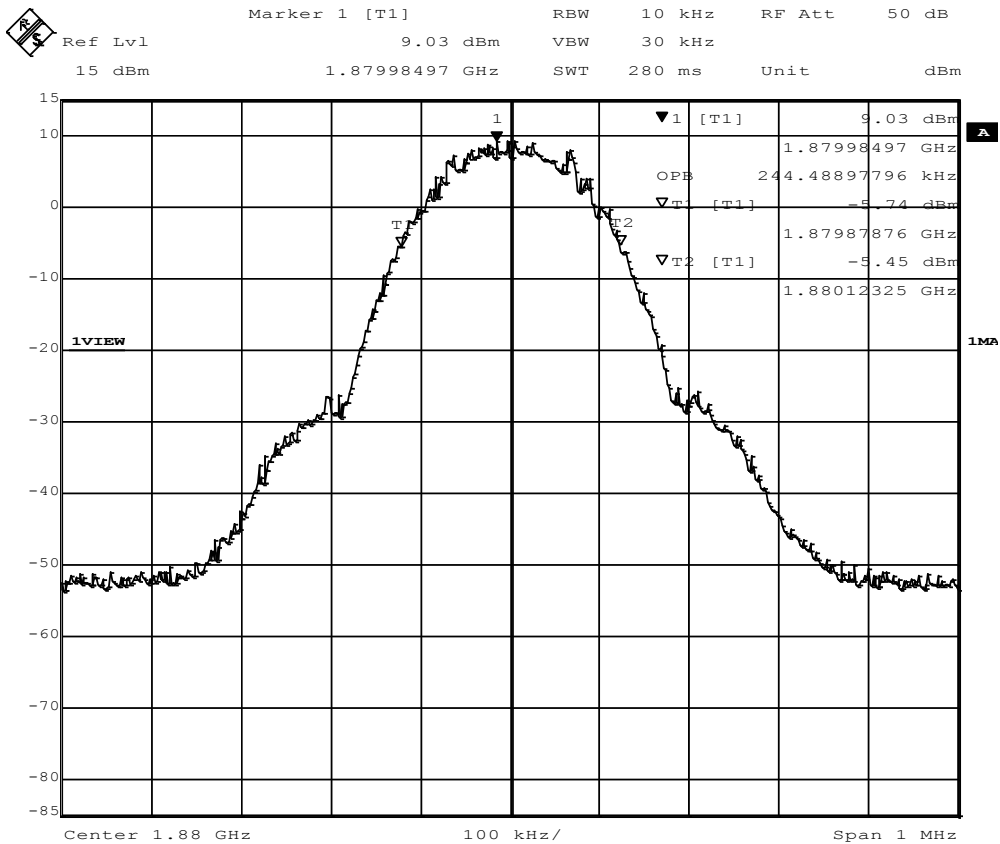
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-133
Comment 1	GPRS 1900 / Gamma:3 ( 30 dBm ) / Main Slot 3
Comment 2	Channel: 512
Comment 3	



Comment A: Occupied\_Bandwidth\_:\_244.48897796\_kHz  
Date: 11.DEC.2013 11:18:54

**Occupied Bandwidth – GPRS1900 F<sub>MID</sub>**
**IC RSS-133  
Occupied Bandwidth**

EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-133
Comment 1	GPRS 1900 / Gamma:3 ( 30 dBm ) / Main Slot 3
Comment 2	Channel: 661
Comment 3	

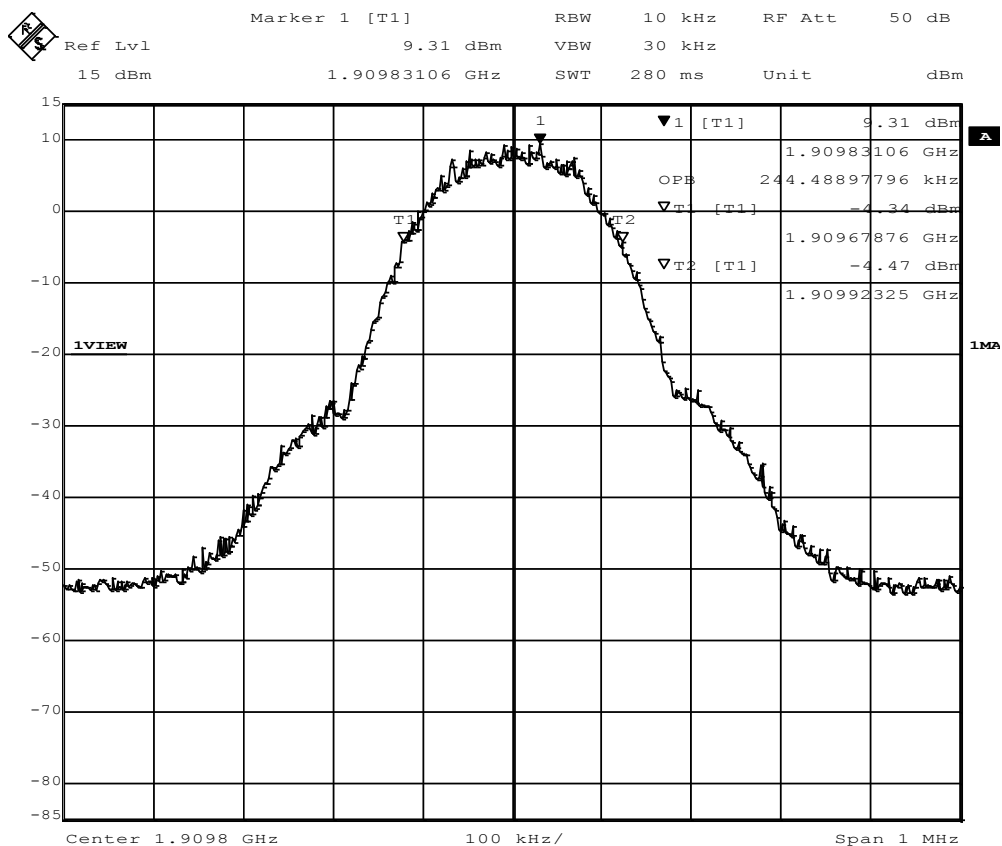


Comment A: Occupied\_Bandwidth\_:\_244.48897796\_kHz  
Date: 11.DEC.2013 11:15:48



**Occupied Bandwidth – GPRS1900 F<sub>HIGH</sub>**
**IC RSS-133  
Occupied Bandwidth**

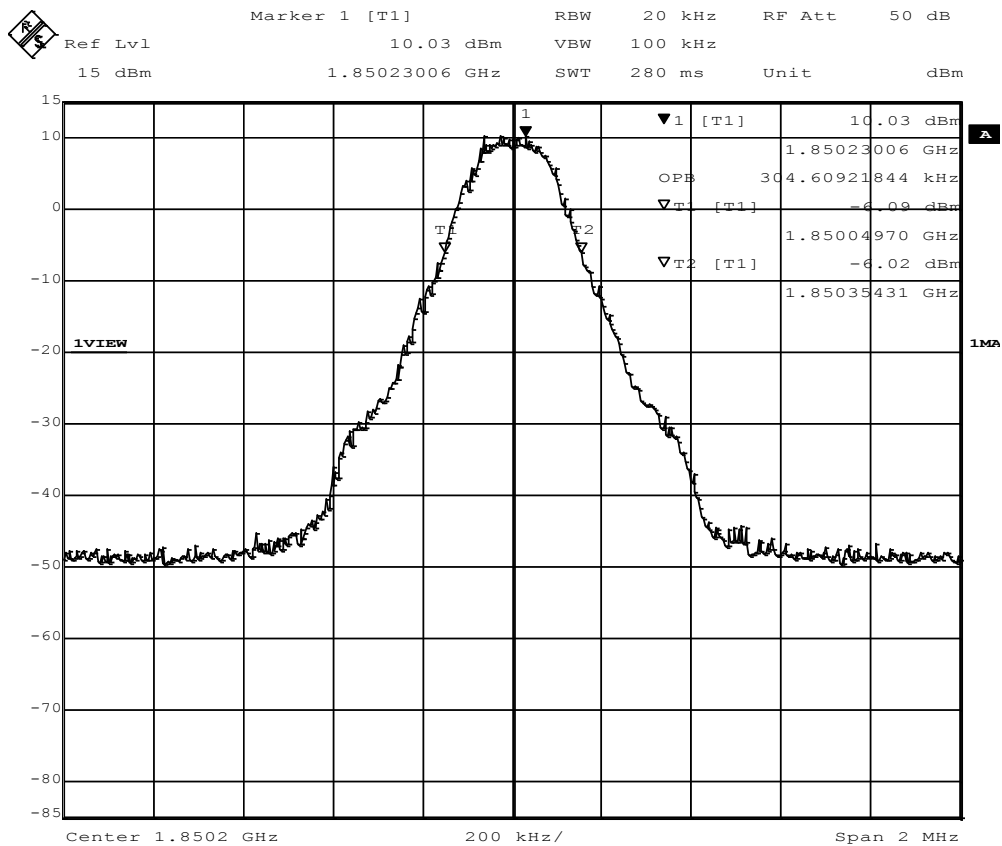
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-133
Comment 1	GPRS 1900 / Gamma:3 ( 30 dBm ) / Main Slot 3
Comment 2	Channel: 810
Comment 3	



Comment A: Occupied\_Bandwidth\_:\_244.48897796\_kHz  
Date: 11.DEC.2013 11:21:50

**Occupied Bandwidth – EDGE 1900 F<sub>Low</sub>**
**IC RSS-133  
Occupied Bandwidth**

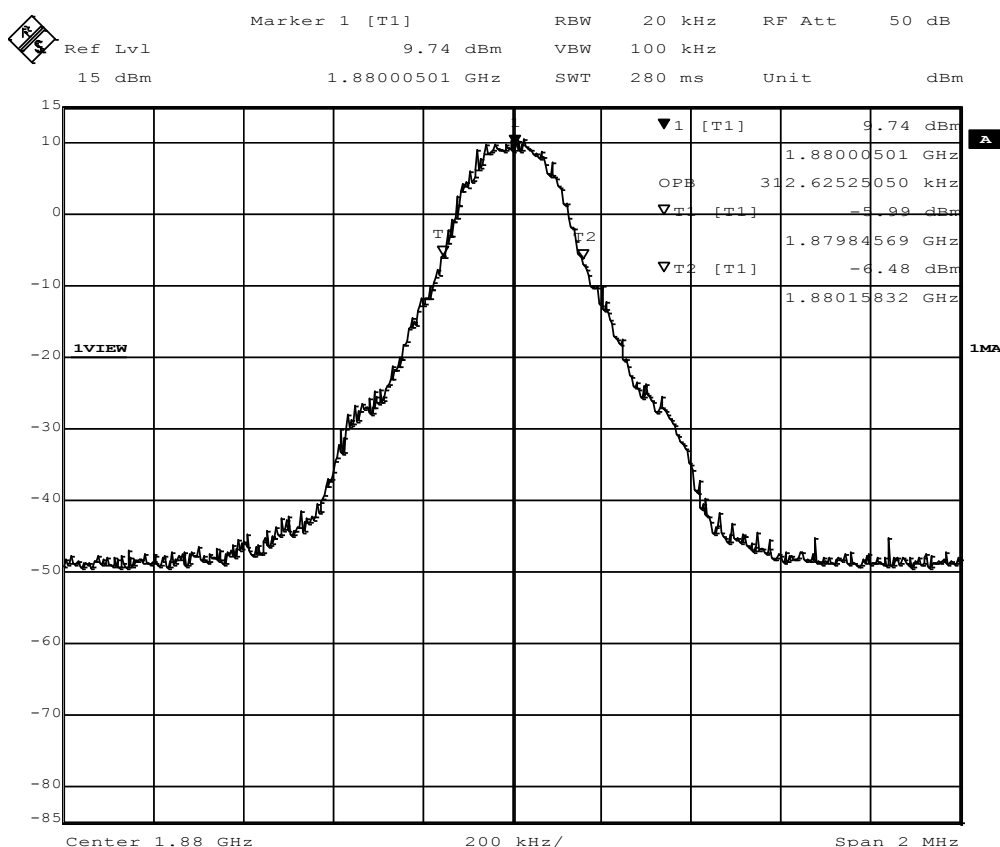
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-133
Comment 1	EDGE 1900 / Gamma:5 ( 26 dBm ) / Main Slot 3
Comment 2	Channel: 512
Comment 3	



Comment A: Occupied\_Bandwidth\_:\_304.60921844\_kHz  
Date: 11.DEC.2013 11:41:10

**Occupied Bandwidth – EDGE 1900F<sub>MID</sub>**
**IC RSS-133  
Occupied Bandwidth**

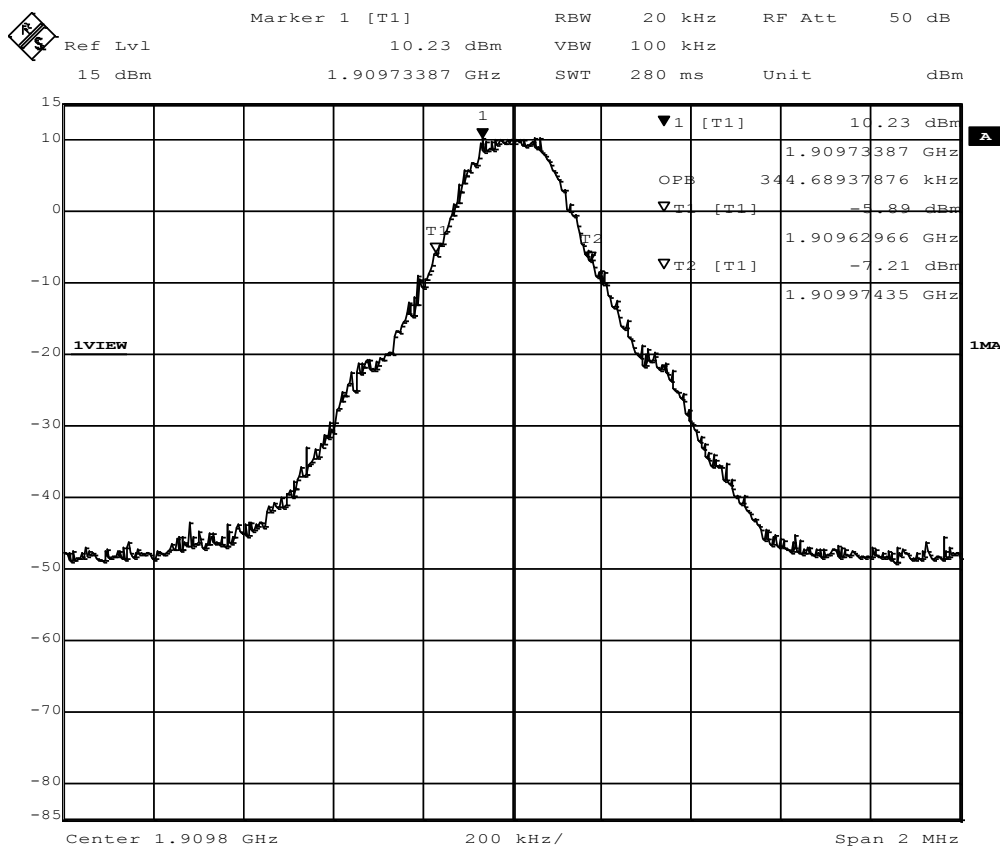
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-133
Comment 1	EDGE 1900 / Gamma:5 ( 26 dBm ) / Main Slot 3
Comment 2	Channel: 661
Comment 3	



Comment A: Occupied\_Bandwidth\_:\_312.62525050\_kHz  
Date: 11.DEC.2013 11:34:59

**Occupied Bandwidth – EDGE 1900 F<sub>HIGH</sub>**
**IC RSS-133  
Occupied Bandwidth**

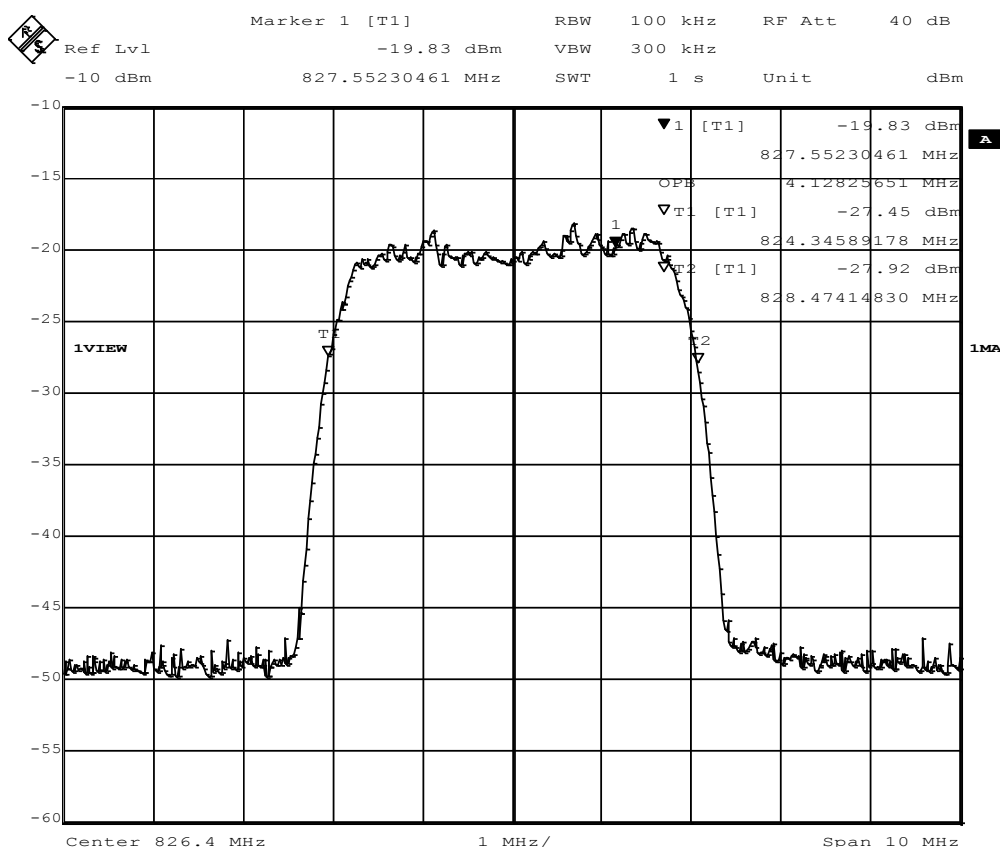
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-133
Comment 1	EDGE 1900 / Gamma:5 ( 26 dBm ) / Main Slot 3
Comment 2	Channel: 810
Comment 3	



Comment A: Occupied\_Bandwidth\_:\_344.68937876\_kHz  
Date: 11.DEC.2013 11:38:06

**Occupied Bandwidth – FDDV F<sub>Low</sub>**
**IC RSS-132  
Occupied Bandwidth**

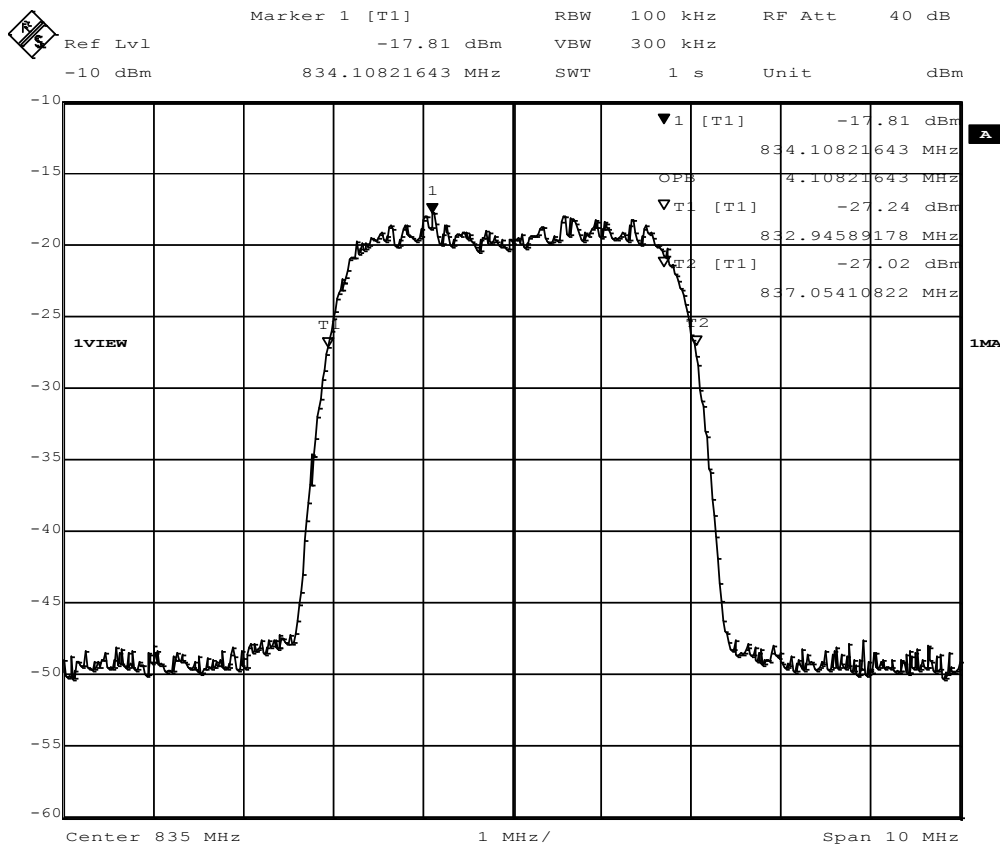
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-132
Comment 1	UMTS / FDD V / HSPA
Comment 2	Channel: 4132
Comment 3	



Comment A: Occupied\_Bandwidth\_-\_4.12825651\_MHz  
Date: 12.DEC.2013 11:36:19

**Occupied Bandwidth – FDDV F<sub>MID</sub>**
**IC RSS-132  
Occupied Bandwidth**

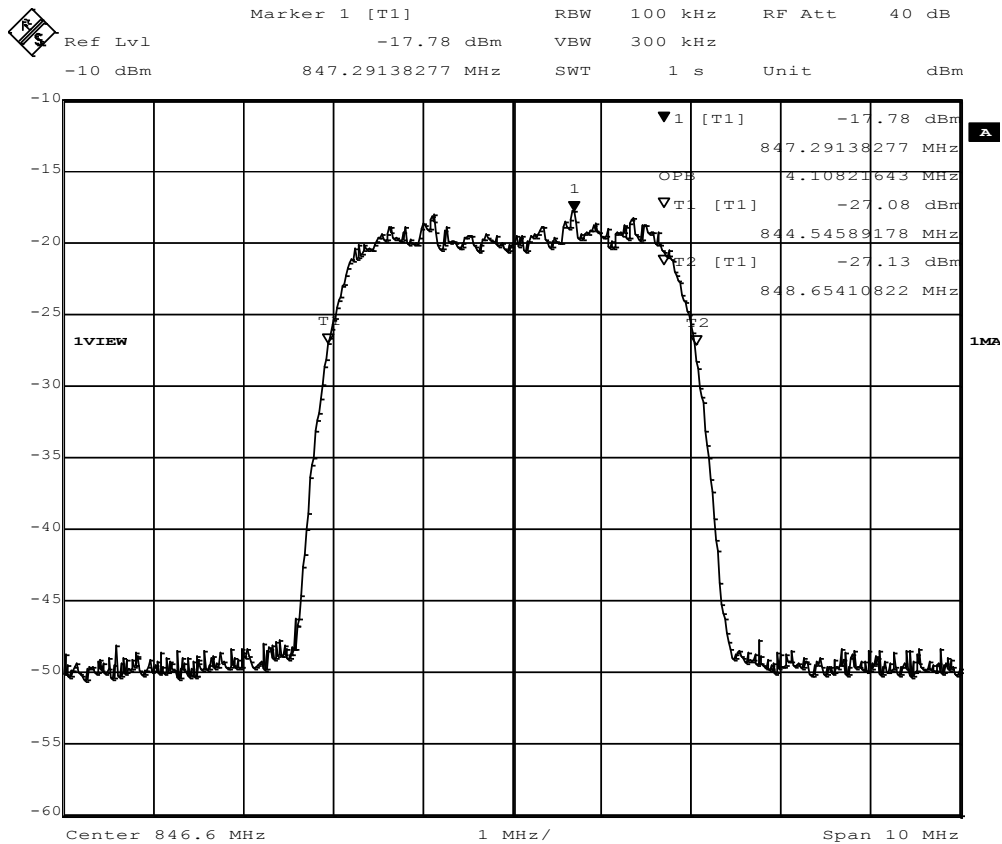
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-132
Comment 1	UMTS / FDD V / HSPA
Comment 2	Channel: 4175
Comment 3	



Comment A: Occupied\_Bandwidth\_-\_4.10821643\_MHz  
Date: 12.DEC.2013 11:39:27

**Occupied Bandwidth – FDDV F<sub>HIGH</sub>**
**IC RSS-132  
Occupied Bandwidth**

EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-132
Comment 1	UMTS / FDD VI / HSPA
Comment 2	Channel: 4233
Comment 3	

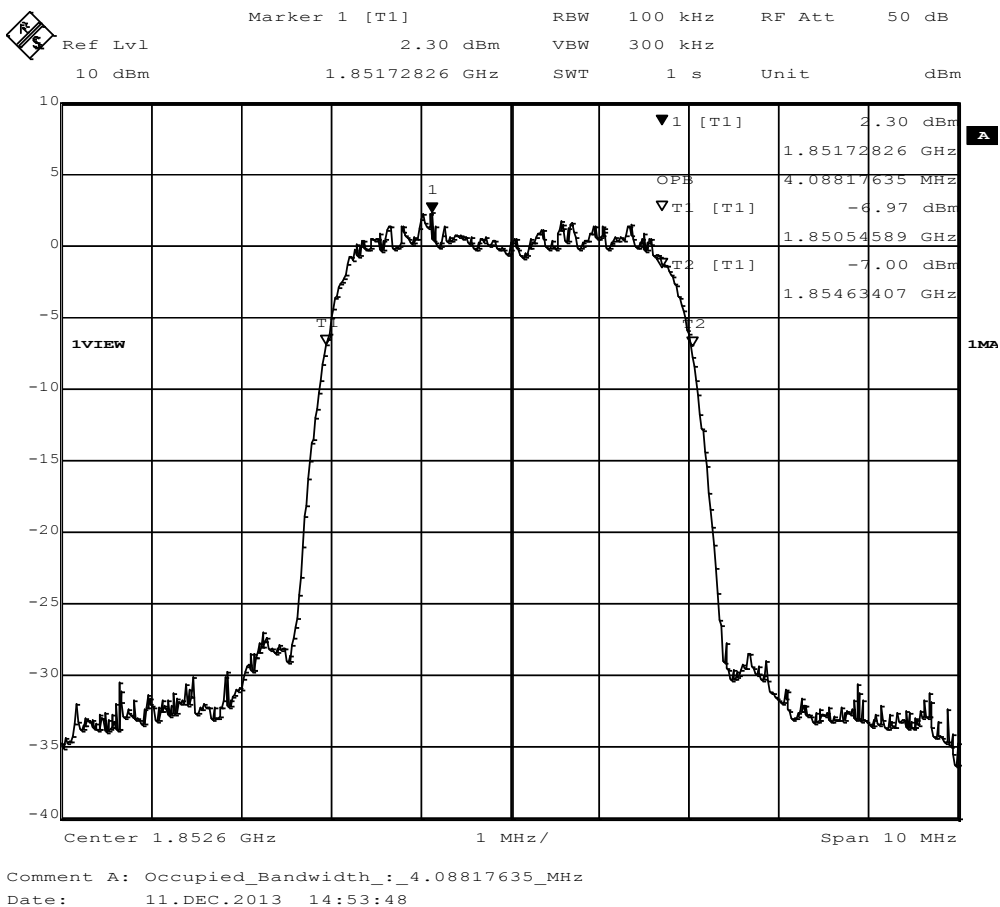


Comment A: Occupied\_Bandwidth\_-\_4.10821643\_MHz  
Date: 12.DEC.2013 11:41:38

Occupied Bandwidth – FDDII F<sub>Low</sub>

IC RSS-133  
Occupied Bandwidth

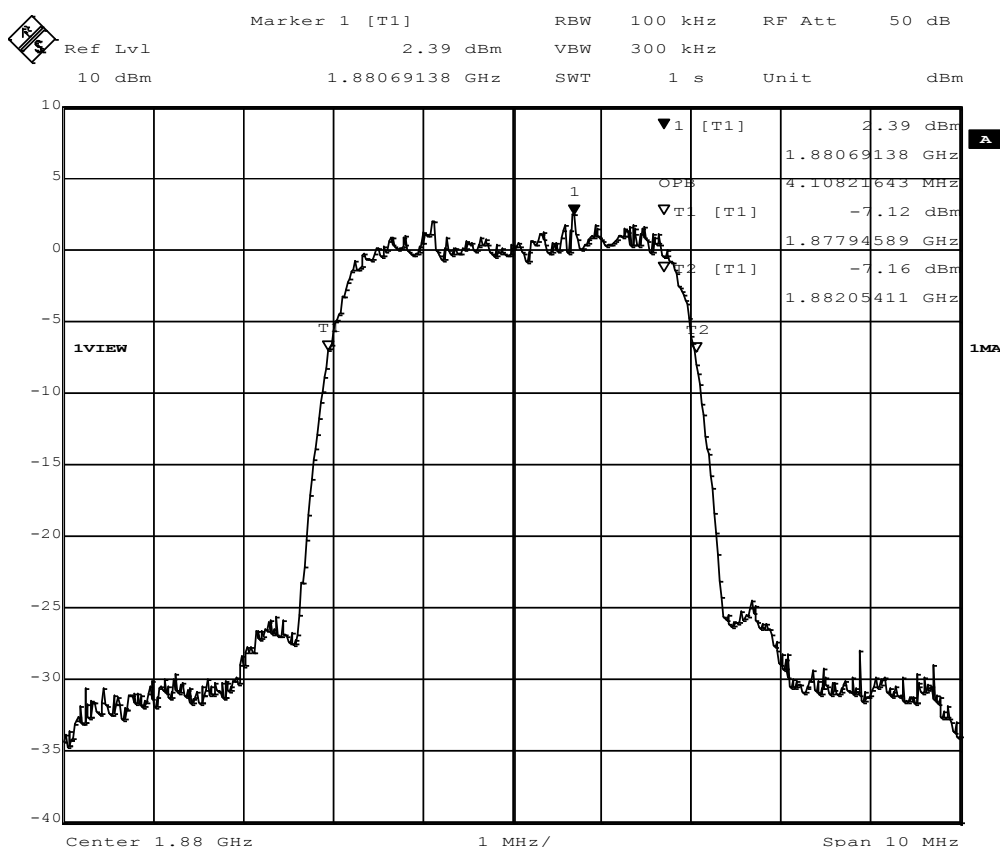
EUT Telemonitoring System  
 Model CardioMessenger Smart 3G  
 Approval Holder Biotronik SE & Co. KG / G0M-1309-3226  
 Temperature / Voltage 24°C / Unom: 3.7 V DC  
 Test Site / Operator Eurofins Product Service GmbH / Mr. Pudell  
 Test Specification IC RSS-133  
 Comment 1 UMTS / FDD II / HSPA  
 Comment 2 Channel: 9263  
 Comment 3





**Occupied Bandwidth – FDDII F<sub>MID</sub>**
**IC RSS-133  
Occupied Bandwidth**

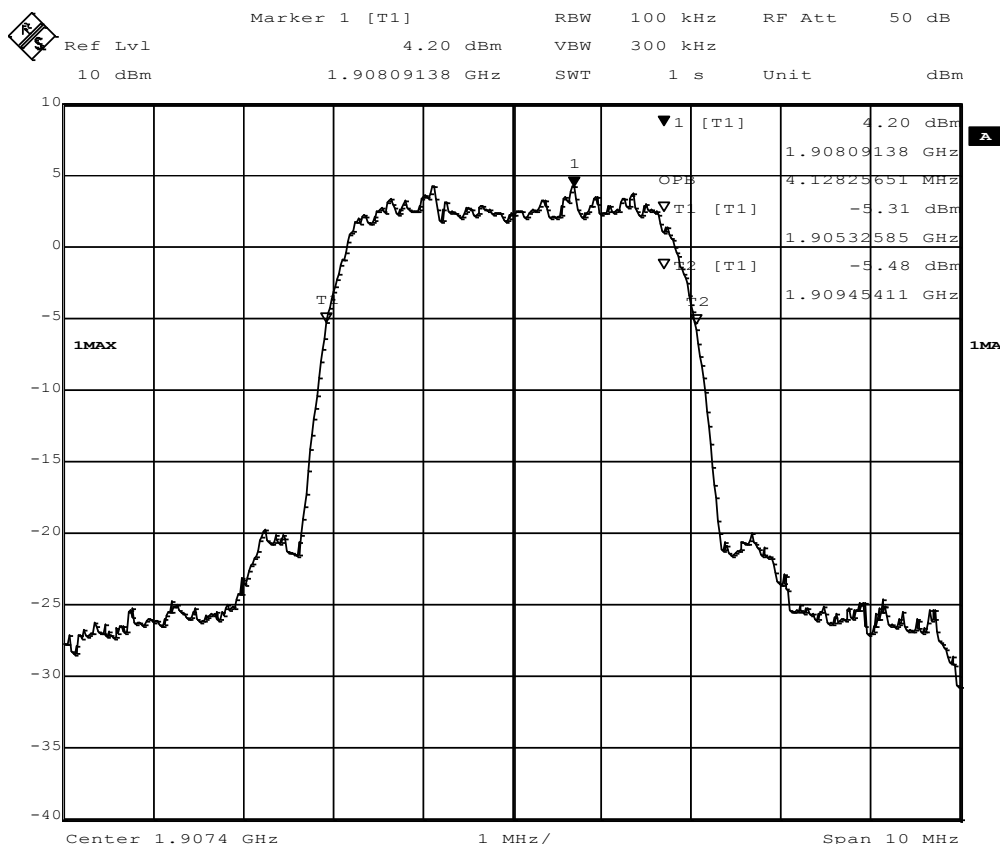
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-133
Comment 1	UMTS / FDD II / HSPA
Comment 2	Channel: 9400
Comment 3	



Comment A: Occupied\_Bandwidth\_-\_4.10821643\_MHz  
Date: 11.DEC.2013 14:49:43

**Occupied Bandwidth – FDDII F<sub>HIGH</sub>**
**IC RSS-133  
Occupied Bandwidth**

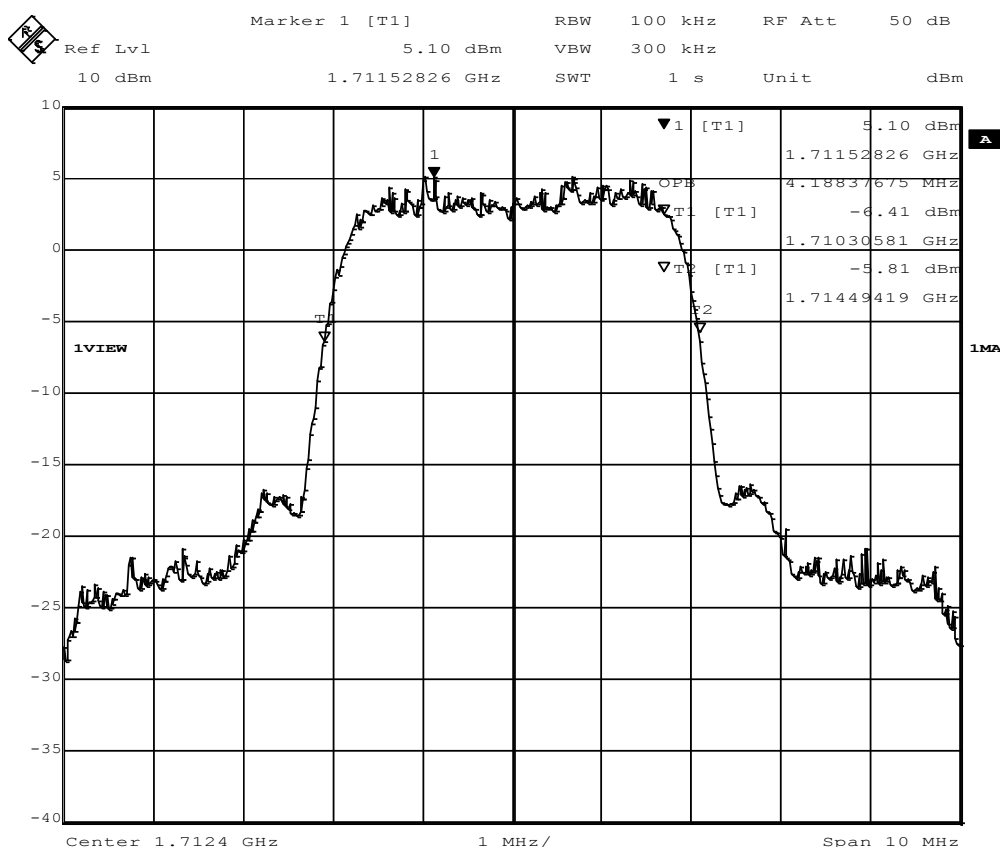
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-133
Comment 1	UMTS / FDD II / HSPA
Comment 2	Channel: 9537
Comment 3	



Comment A: Occupied\_Bandwidth\_-\_4.12825551\_MHz  
Date: 11.DEC.2013 14:42:43

**Occupied Bandwidth – FDDIV F<sub>Low</sub>**
**IC RSS-139  
Occupied Bandwidth**

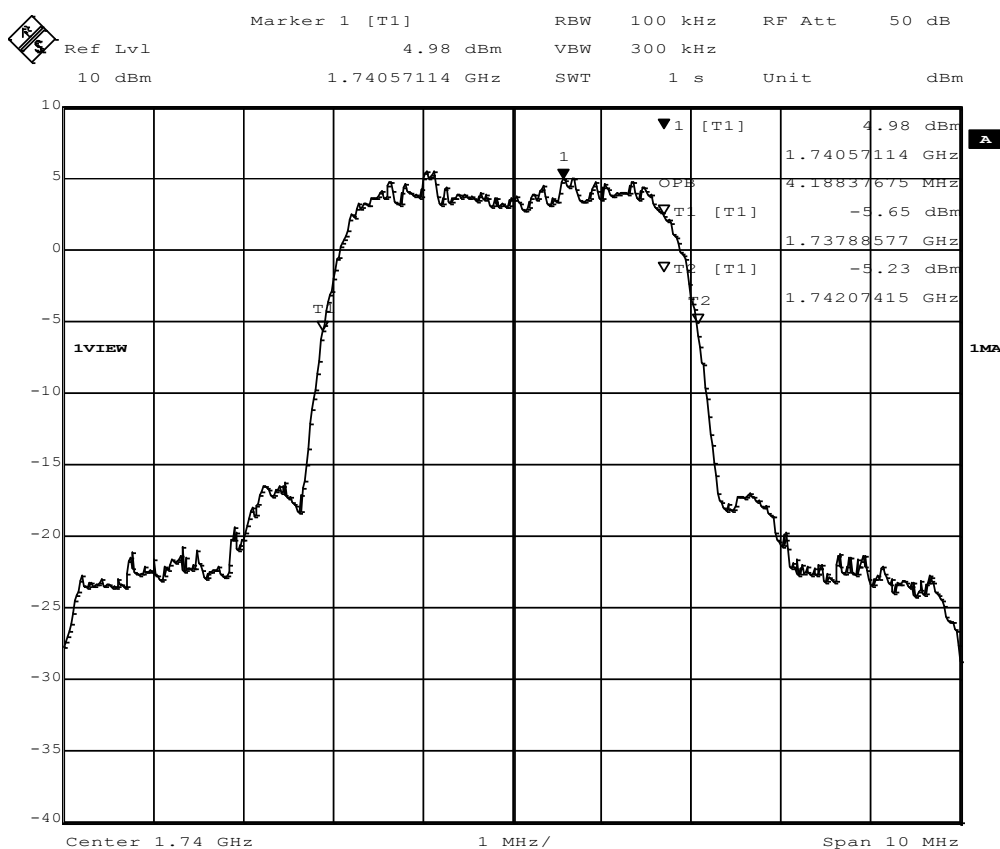
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-139
Comment 1	UMTS / FDD IV / HSPA
Comment 2	Channel: 1312
Comment 3	



Comment A: Occupied\_Bandwidth\_-\_4.18837675\_MHz  
Date: 12.DEC.2013 13:40:03

**Occupied Bandwidth – FDDIV F<sub>MID</sub>**
**IC RSS-139  
Occupied Bandwidth**

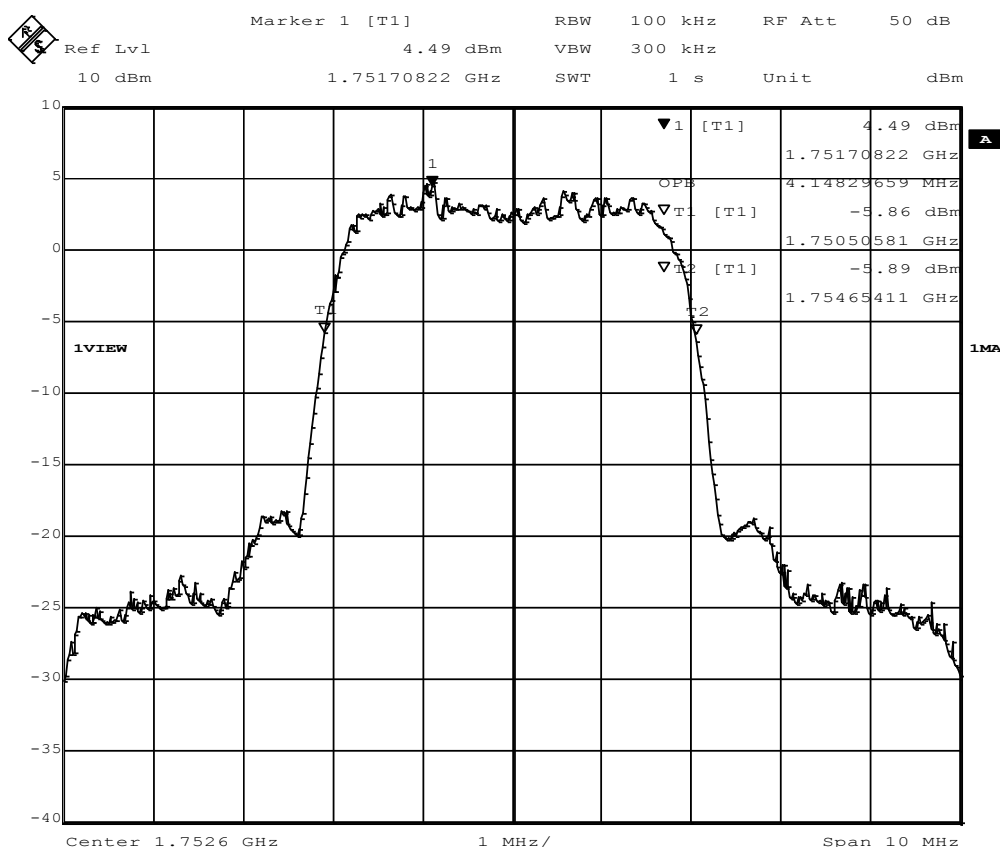
EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-139
Comment 1	UMTS / FDD IV / HSPA
Comment 2	Channel: 1450
Comment 3	



Comment A: Occupied\_Bandwidth\_-\_4.18837675\_MHz  
Date: 12.DEC.2013 13:37:12

**Occupied Bandwidth – FDDIV F<sub>HIGH</sub>**
**IC RSS-139  
Occupied Bandwidth**

EUT	Telemonitoring System
Model	CardioMessenger Smart 3G
Approval Holder	Biotronik SE & Co. KG / G0M-1309-3226
Temperature / Voltage	24°C / Unom: 3.7 V DC
Test Site / Operator	Eurofins Product Service GmbH / Mr. Pudell
Test Specification	IC RSS-139
Comment 1	UMTS / FDD IV / HSPA
Comment 2	Channel: 1513
Comment 3	



Comment A: Occupied\_Bandwidth\_-\_4.14829659\_MHz  
Date: 12.DEC.2013 13:42:59

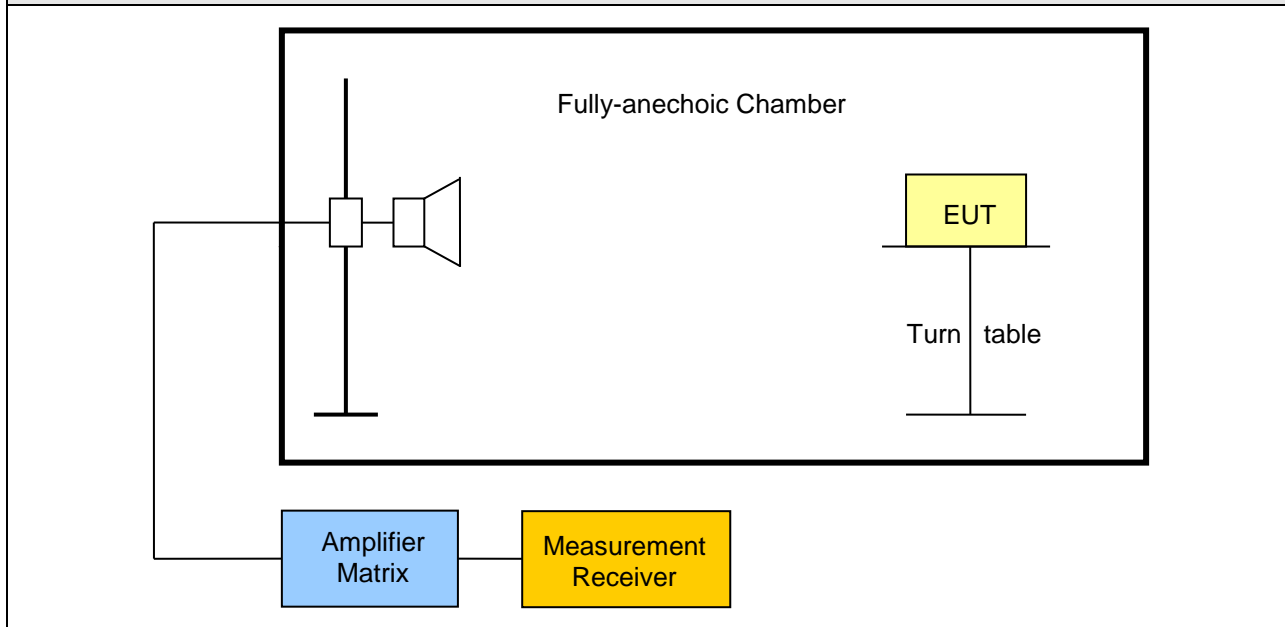
3.2 Test Conditions and Results – Effective radiated power / Equivalent isotropic radiated power

**Radiated power acc. FCC 22H / FCC 24E / FCC 27C / IC RSS-132 / IC RSS-133 / IC RSS-139** **Verdict: PASS**

EUT requirement rule parts and clause	Reference
	FCC § 22.913(a) / FCC § 24.232(c) / FCC § 27.50(d)(4) IC RSS-132 § 4.4 / IC RSS-133 § 6.4 / IC RSS 139 § 6.5
Test according to measurement reference	Reference Method
	FCC § 22.913(a) / FCC § 24.232(c) / FCC § 27.50 (d)(4) / ANSI/TIA-603-C IC RSS-132 § 4.4 / IC RSS-133 § 6.4 / IC RSS 139 § 4.1
Test frequency range	Tested frequencies
	$F_{LOW} / F_{MID} / F_{HIGH}$

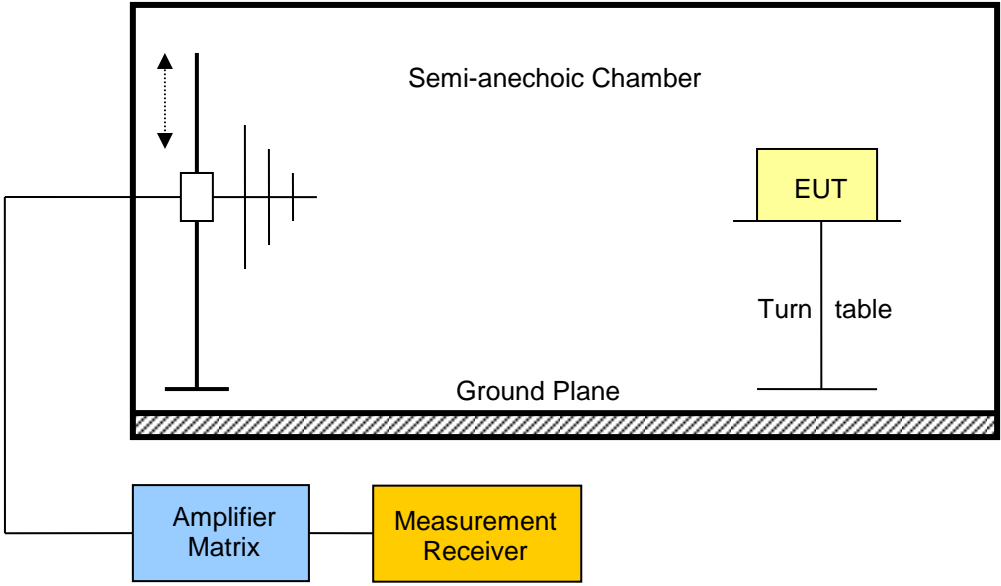
Limits		
Frequency range	Equipment type	Power limit
824-849 MHz	Mobile transmitter	FCC : 7 Watts (38.45 dBm) e.i.r.p. IC : 11.5 Watts (40.6 dBm) e.i.r.p.
1710 MHz - 1755 MHz	Mobile transmitter	FCC : 1 Watts (30 dBm) e.i.r.p. IC : 1 Watts (30 dBm) e.i.r.p.
1850-1910 MHz	Mobile transmitter	FCC : 2 Watts (33 dBm) e.i.r.p. IC : 2 Watts (33 dBm) e.i.r.p.

**Test setup**



Test procedure							
1. EUT set to test mode 2. The radiated power is measured with a measurement antenna in vertical polarization 3. To obtain maximum level the EUT is rotated 4. The EUT is replaced with a half-wave dipole and the power to the dipole is adjusted to obtain same radiated power measurement value							
Test results – GPRS850 E.R.P.							
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.r.p]	Limit [dBm e.r.p]	Margin [dB]	Result
F <sub>LOW</sub>	824.2	GPRS850	ver	30.3	38.45	-08.15	PASS
F <sub>MID</sub>	836.2	GPRS850	ver	31.5	38.45	-06.95	PASS
F <sub>HIGH</sub>	848.8	GPRS850	ver	32.7	38.45	-05.75	PASS
F <sub>LOW</sub>	824.2	EGPRS850	ver	27.3	38.45	-11.15	PASS
F <sub>MID</sub>	836.2	EGPRS850	ver	28.7	38.45	-09.75	PASS
F <sub>HIGH</sub>	848.8	EGPRS850	ver	29.4	38.45	-09.05	PASS
Test results – GPRS1900 E.I.R.P.							
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.i.r.p]	Limit [dBm e.i.r.p]	Margin [dB]	Result
F <sub>LOW</sub>	1850.2	GPRS1900	ver	26.5	33	-06.50	PASS
F <sub>MID</sub>	1880	GPRS1900	ver	26.5	33	-06.50	PASS
F <sub>HIGH</sub>	1909.8	GPRS1900	ver	27.8	33	-05.20	PASS
F <sub>LOW</sub>	1850.2	EDGE1900	ver	27.8	33	-05.20	PASS
F <sub>MID</sub>	1880	EDGE1900	ver	29.5	33	-03.50	PASS
F <sub>HIGH</sub>	1909.8	EDGE1900	ver	29.7	33	-03.30	PASS
Test results – UMTS Band V E.R.P.							
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.r.p]	Limit [dBm e.r.p]	Margin [dB]	Result
F <sub>LOW</sub>	826.4	FDDV	ver	21.5	38.45	-16.95	PASS
F <sub>MID</sub>	835	FDDV	ver	22.5	38.45	-15.95	PASS
F <sub>HIGH</sub>	846.6	FDDV	ver	24.2	38.45	-14.25	PASS
Test results – UMTS Band II E.I.R.P.							
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.i.r.p]	Limit [dBm e.i.r.p]	Margin [dB]	Result
F <sub>LOW</sub>	1852.6	FDDII	ver	22.6	33	-10.40	PASS
F <sub>MID</sub>	1880	FDDII	ver	22.3	33	-10.70	PASS
F <sub>HIGH</sub>	1907.4	FDDII	ver	24.3	33	-08.70	PASS
Test results – UMTS Band IV E.I.R.P.							
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.i.r.p]	Limit [dBm e.i.r.p]	Margin [dB]	Result
F <sub>LOW</sub>	1712.4	FDDIV	ver	24.3	30	-14.15	PASS
F <sub>MID</sub>	1740	FDDIV	ver	23.9	30	-14.55	PASS
F <sub>HIGH</sub>	1752.6	FDDIV	ver	22.3	30	-16.15	PASS
Comments:							

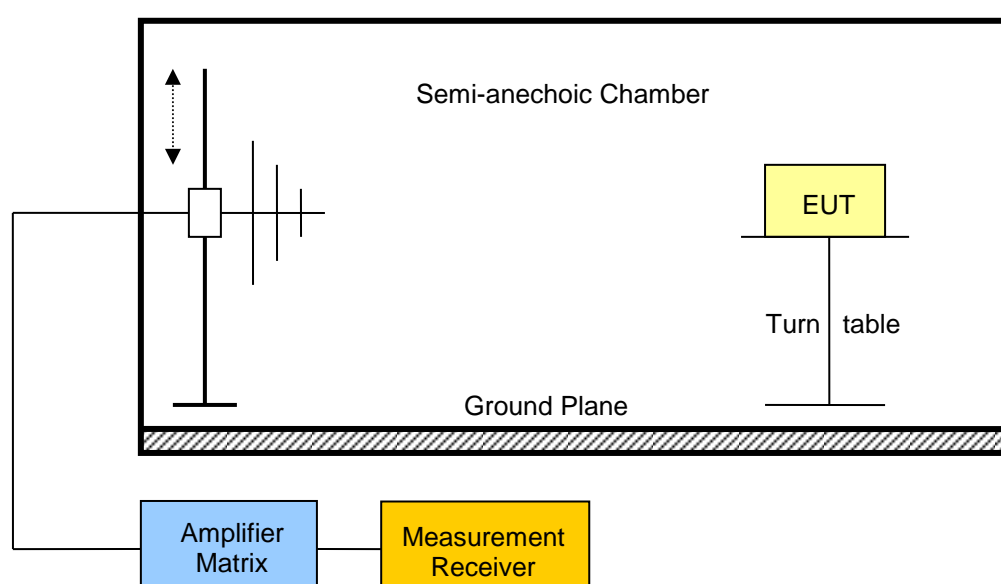
**3.3 Test Conditions and Results – Transmitter radiated emissions**

Transmitter radiated power acc. FCC 22H / FCC 24E / IC RSS-132 / IC RSS-133 / IC RSS-139		Verdict: PASS
Test according referenced standards	Reference Method	
	FCC § 22.917(a) / FCC § 24.238(a) / FCC § 27.53(h) IC RSS-132 § 4.5 / IC RSS-133 § 6.5 / IC RSS 139 § 6.5	
Test according to measurement reference	Reference Method	
	ANSI/TIA-603-C	
Test frequency range	Tested frequencies	
	30 MHz – 10 <sup>th</sup> Harmonic	
Limits		
Frequency range	Limit	
824-849 MHz	Attenuation below transmitter power $\geq 43 + 10 \cdot \log_{10}(P)$ [dB] = -13 dBm	
1710-1755 MHz	Attenuation below transmitter power $\geq 43 + 10 \cdot \log_{10}(P)$ [dB] = -13 dBm	
1850-1910 MHz	Attenuation below transmitter power $\geq 43 + 10 \cdot \log_{10}(P)$ [dB] = -13 dBm	
Test setup		
		
Test procedure		
<ol style="list-style-type: none"> <li>1. EUT set to test mode</li> <li>2. Maximum emission level is measured by rotating the EUT and adjusting the antenna height for vertical polarization</li> <li>3. The EUT is replaced by a substitution antenna and generator</li> <li>4. The power level is set to obtain the same power reading</li> <li>5. Measurement is repeated for horizontal polarization</li> </ol>		



<b>Test results – GPRS850</b>							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbm]	Pol.	Limit [dBm]	Margin [dB]
128	824.2	GPRS 850	823.99	-26.70	hor	-13.00	-13.65
<b>Test results – EDGE850</b>							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbm]	Pol.	Limit [dBm]	Margin [dB]
No significant spurious emissions							
<b>Test results – GPRS1900</b>							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbm]	Pol.	Limit [dBm]	Margin [dB]
512	1850.2	GPRS 1900	1850	-18.90	ver	-13.00	-05.88
512	1850.2	GPRS 1900	1850	-22.10	hor	-13.00	-09.13
810	1909.8	GPRS 1900	1910	-18.40	ver	-13.00	-05.41
810	1909.8	GPRS 1900	1910	-17.90	hor	-13.00	-04.86
<b>Test results – EDGE1900</b>							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbm]	Pol.	Limit [dBm]	Margin [dB]
512	1850.2	EDGE1900	1850	-26.00	ver	-13.00	-12.97
512	1850.2	EDGE1900	1850	-23.20	hor	-13.00	-10.23
<b>Test results – FDDV</b>							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbm]	Pol.	Limit [dBm]	Margin [dB]
No significant spurious emissions							
<b>Test results – FDDII</b>							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbm]	Pol.	Limit [dBm]	Margin [dB]
9262	1852.4	FDDII	1843	-26.40	ver	-13.00	-13.35
9262	1852.4	FDDII	1843	-27.10	hor	-13.00	-14.12
9538	1907.6	FDDII	1915	-21.80	ver	-13.00	-08.78
9538	1907.6	FDDII	1915	-31.20	hor	-13.00	-18.22
<b>Test results – FDDIV</b>							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbm]	Pol.	Limit [dBm]	Margin [dB]
1312	1712.4	FDD IV	1704	-24.50	ver	-13.00	-11.50
1513	1752.6	FDD IV	1761	-28.00	ver	-13.00	-15.02
Comments:							

**3.4 Test Conditions and Results – Receiver radiated emissions**

Receiver radiated emissions acc. IC RSS-132 / IC RSS-133 / IC RSS-139			Verdict: PASS	
Test according referenced standards	Reference Method			
	IC RSS-132 § 4.6 / IC RSS-133 § 6.6 / IC RSS-139 § 6.6			
Test according to measurement reference	Reference Method			
	ANSI C63.4			
Test frequency range	Tested frequencies			
	30 MHz – 3 <sup>th</sup> Harmonic			
EUT test mode	Receive			
Limits				
Frequency range [MHz]	Detector	Limit [ $\mu$ V/m]	Limit [dB $\mu$ V/m]	Limit Distance [m]
30 – 88	Quasi-Peak	100	40	3
88 – 216	Quasi-Peak	150	43.5	3
216 – 960	Quasi-Peak	200	46	3
960 – 1000	Quasi-Peak	500	54	3
> 1000	Average	500	54	3
Test setup				
 <p>The diagram illustrates the test setup within a Semi-anechoic Chamber. A Ground Plane is located at the bottom. The Equipment Under Test (EUT) is placed on a Turn table. An Amplifier Matrix and a Measurement Receiver are connected to the chamber. The chamber is labeled 'Semi-anechoic Chamber' and 'Ground Plane'.</p>				

**Test procedure**

1. EUT set to receive mode (Communication tester is used if needed)
2. Span it set according to measurement range
3. Resolution bandwidth below 1GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1MHz with peak/average detector is used above 1GHz
4. Markers are set to peak emission levels

**Test results**

Channel	Frequency [MHz]	Emission [MHz]	Emission Level [db $\mu$ V/m]	Emission Level [ $\mu$ V/m]	Det.	Limit [ $\mu$ V/m]	Margin [ $\mu$ V/m]
F <sub>MID</sub>	836.2	3978	**	163.49	pk	500	-336.51
F <sub>MID</sub>	835	3704	**	156.13	pk	500	-343.87
F <sub>MID</sub>	1880	7998	**	415.43	pk	500	-84.57
F <sub>MID</sub>	1880	7889	**	380.63	pk	500	-119.37
F <sub>MID</sub>	1740	7798	**	364.33	pk	500	-135.67

**Comments:**

\* Physical distance between EUT and measurement antenna.

\*\* Emission level corresponds to ambient noise floor

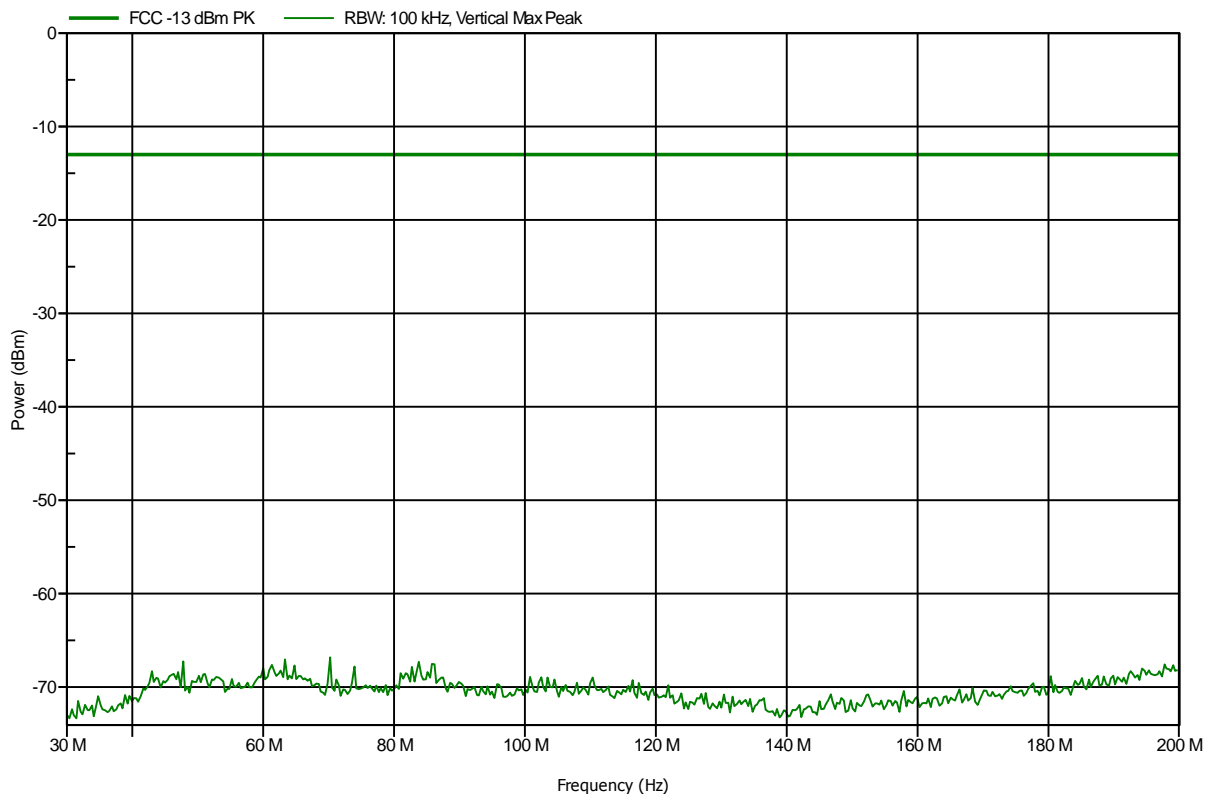
## ANNEX A Transmitter radiated spurious emissions

### Spurious emissions according to FCC part 22 Subpart H

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 188; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 347

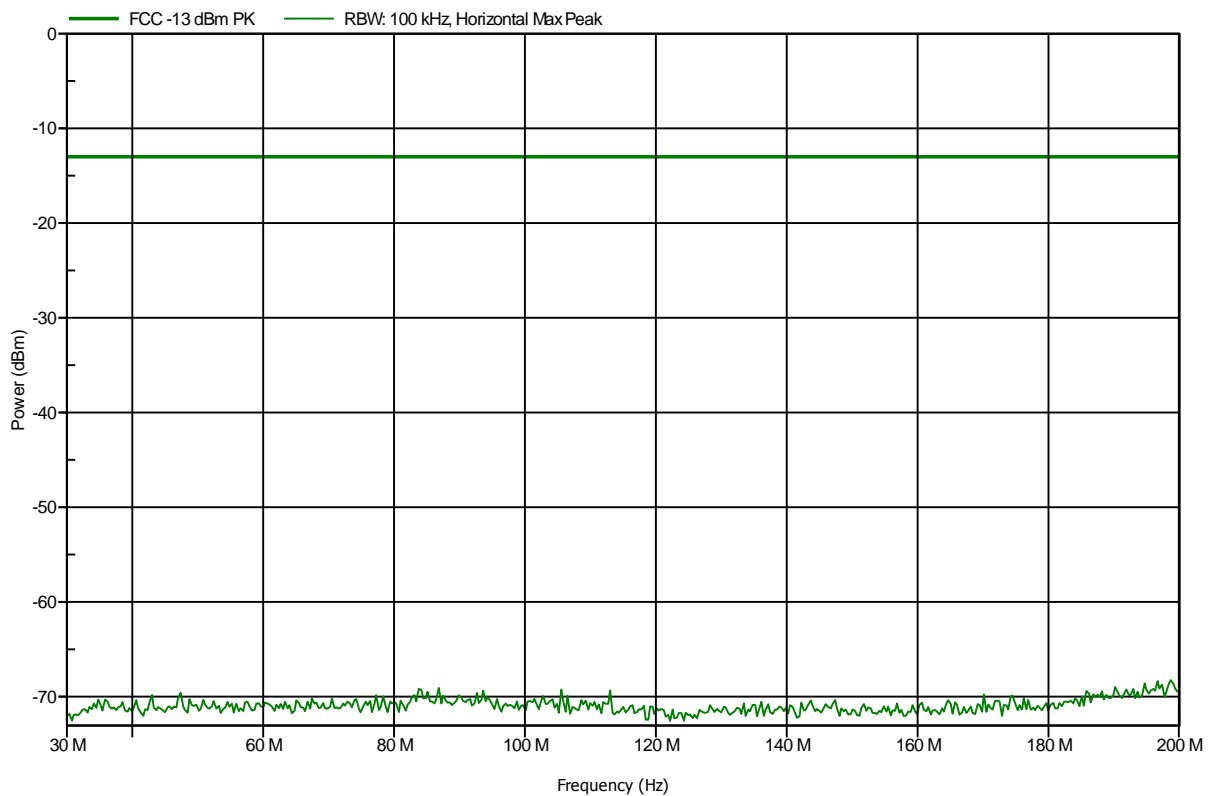


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 188; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 348

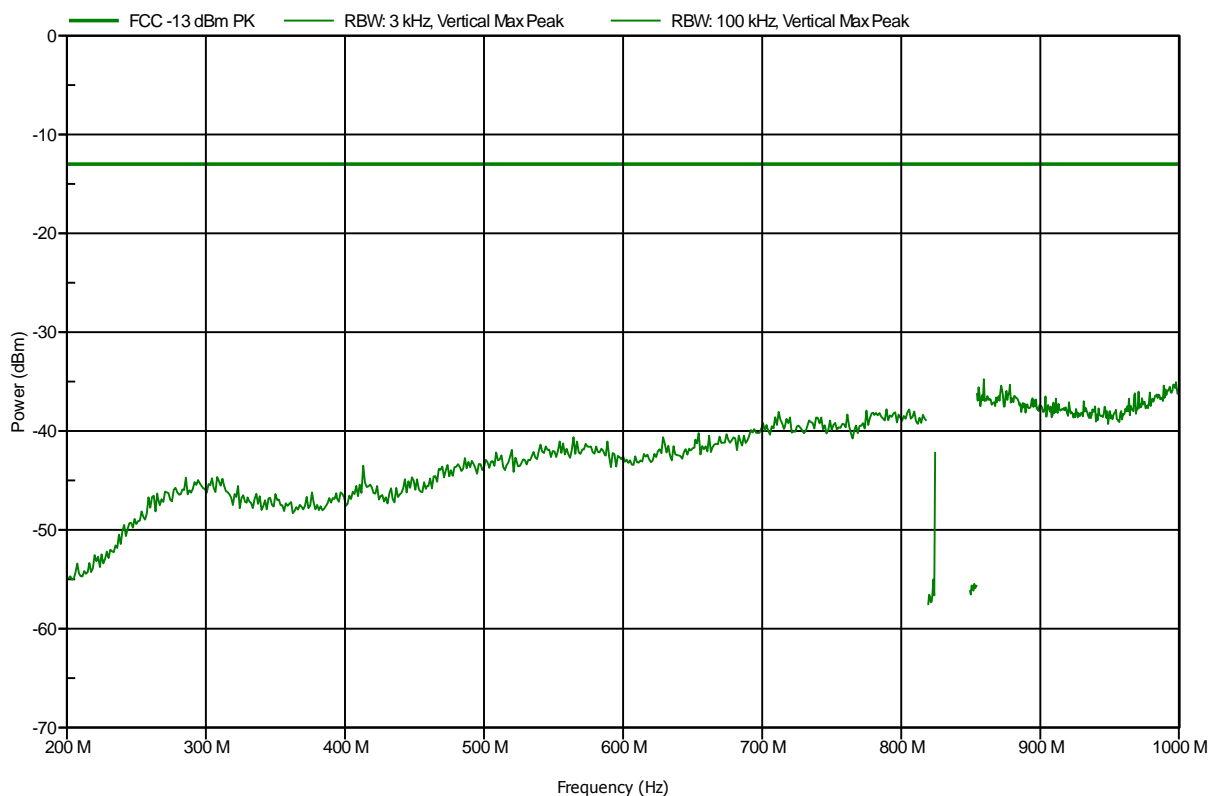


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 128; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 346

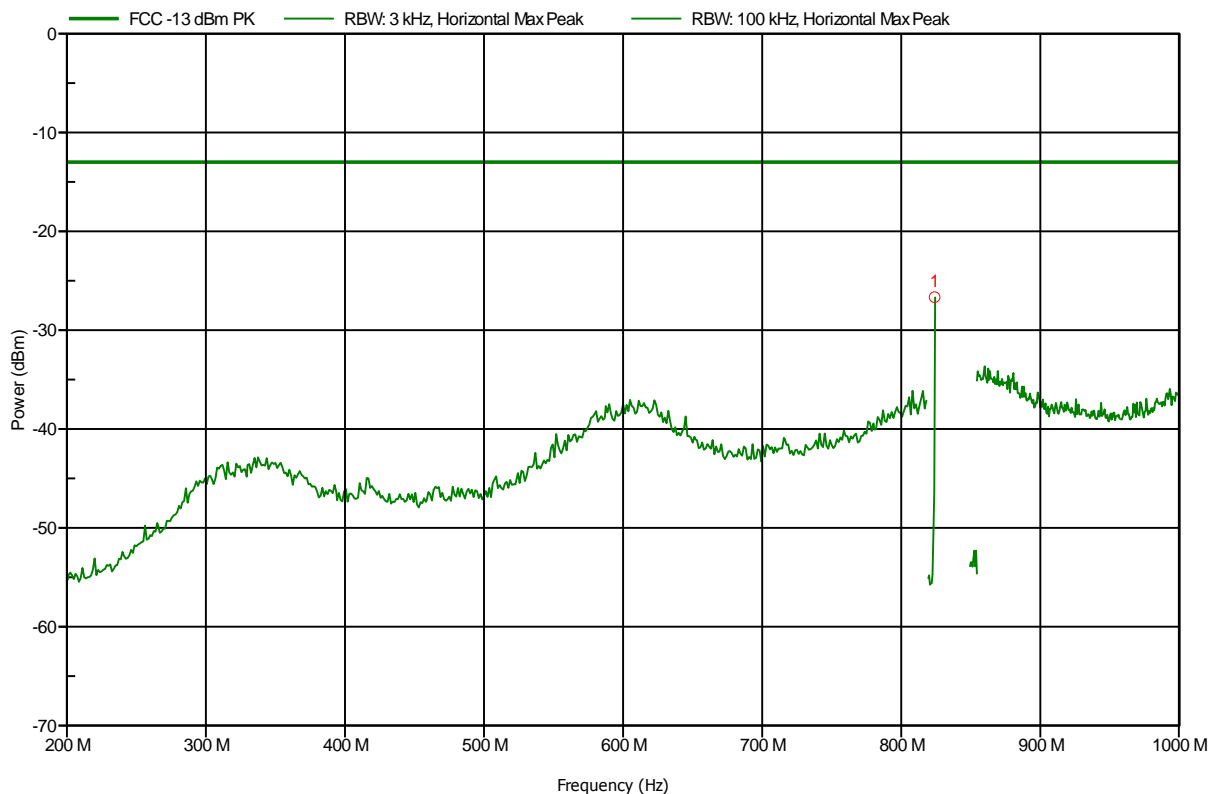


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 223, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; GPRS 850; CH: 128; UL 1xSlot; Pmax; Ant: integral  
 Test Date: 2013-12-10  
 Note: EUT vertical; worst case

Index 340



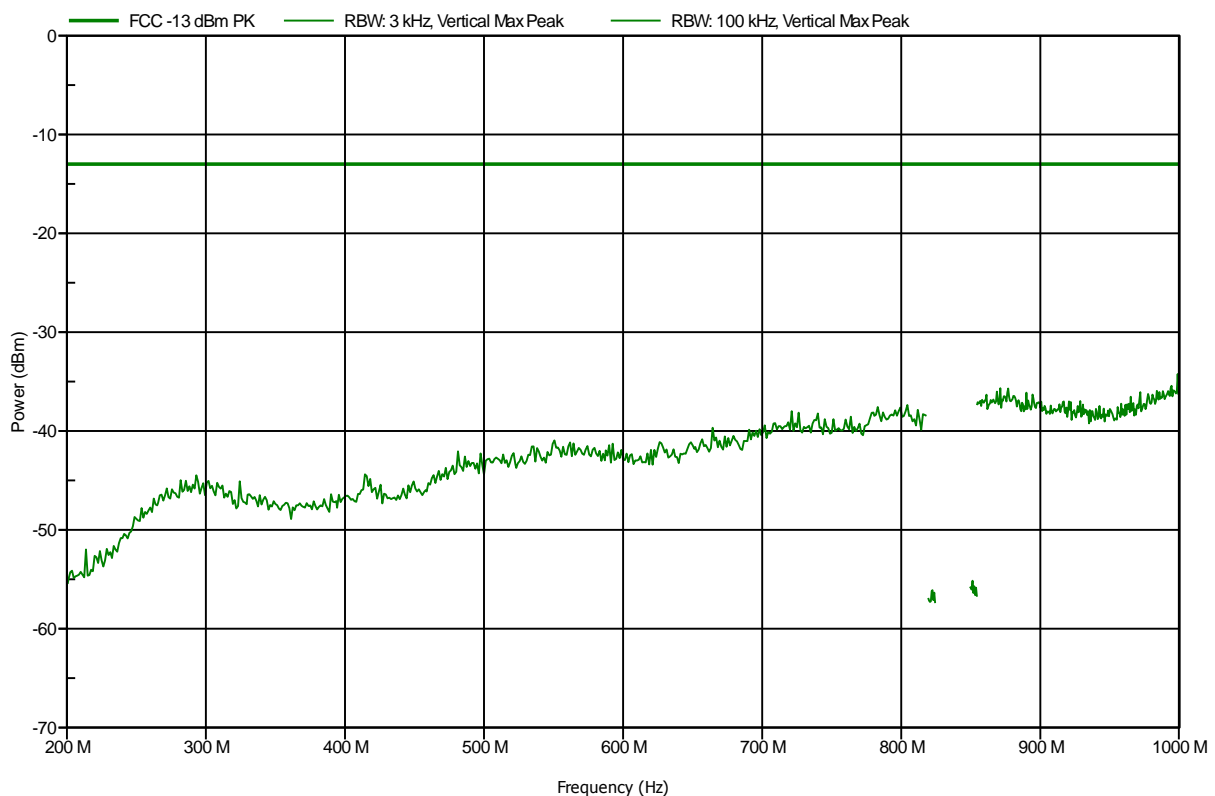
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
823.99 MHz	-26.7 dBm	-13 dBm	-13.65 dB	Pass

**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 188; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 345





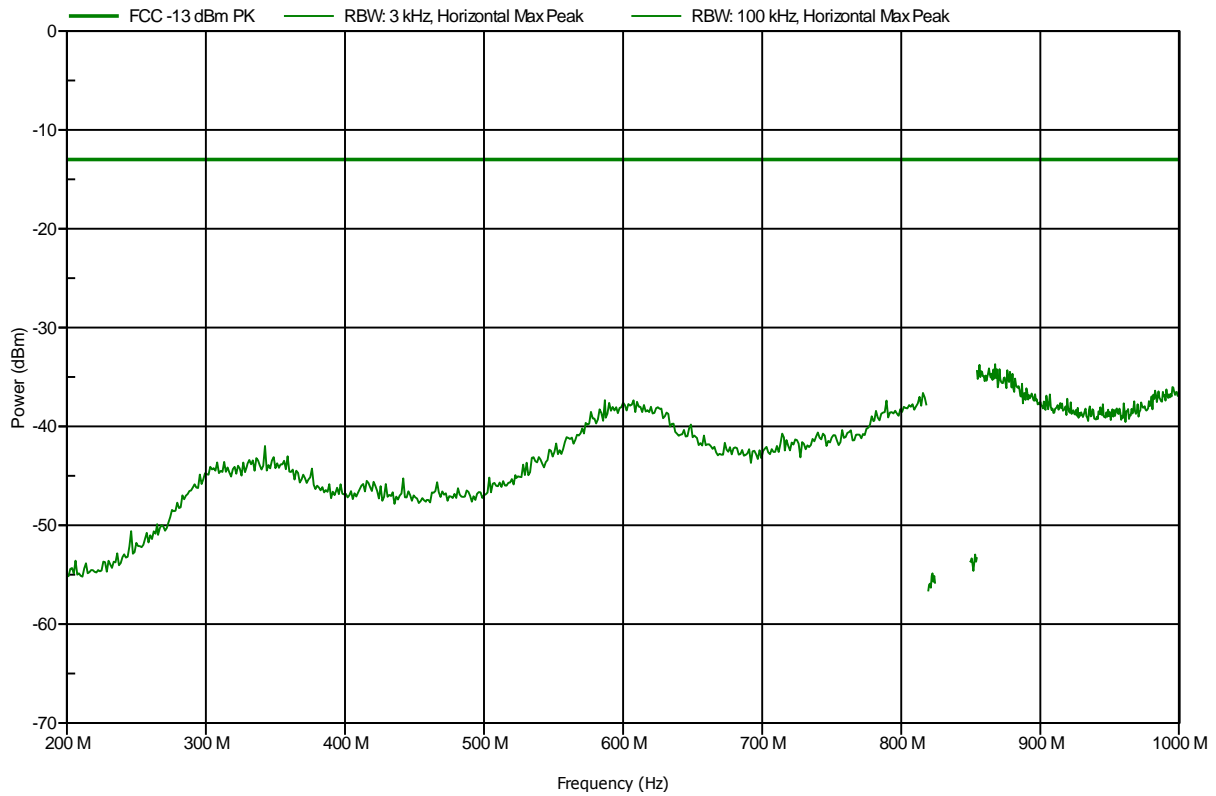
**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 188; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

341

Index

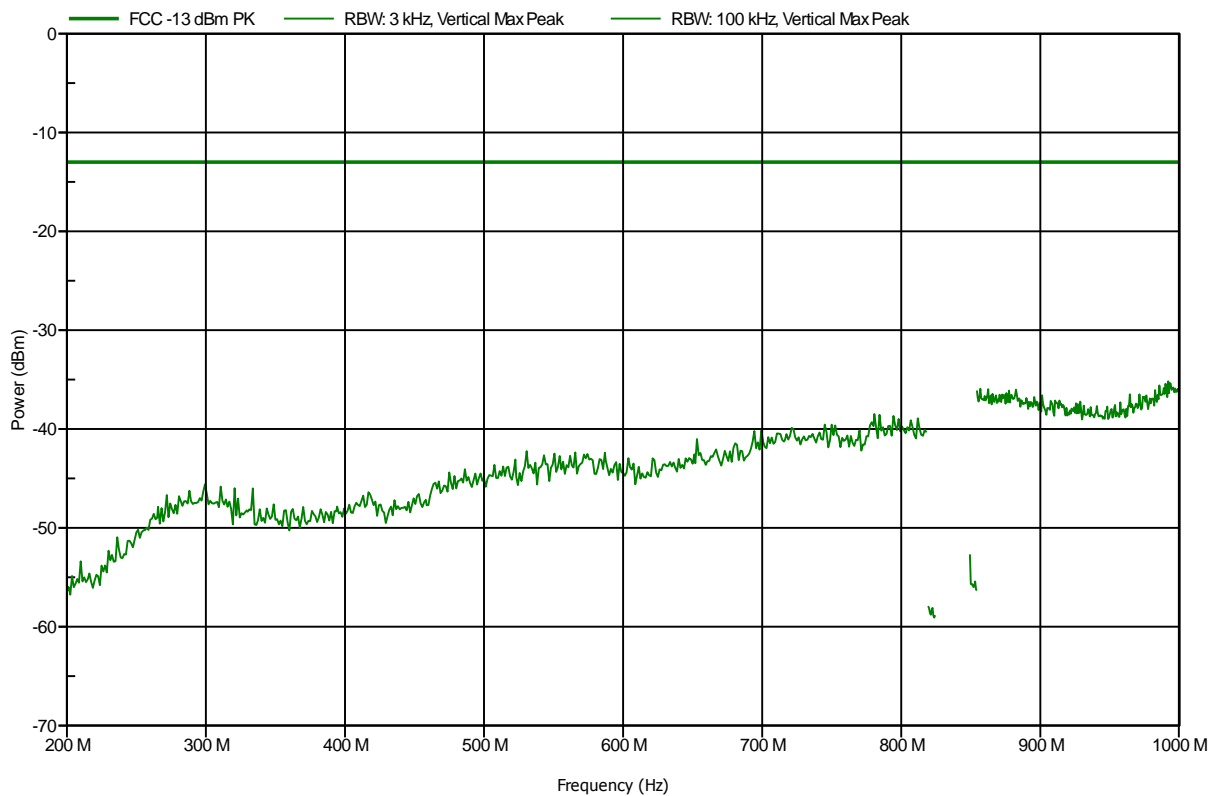


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 251; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 344

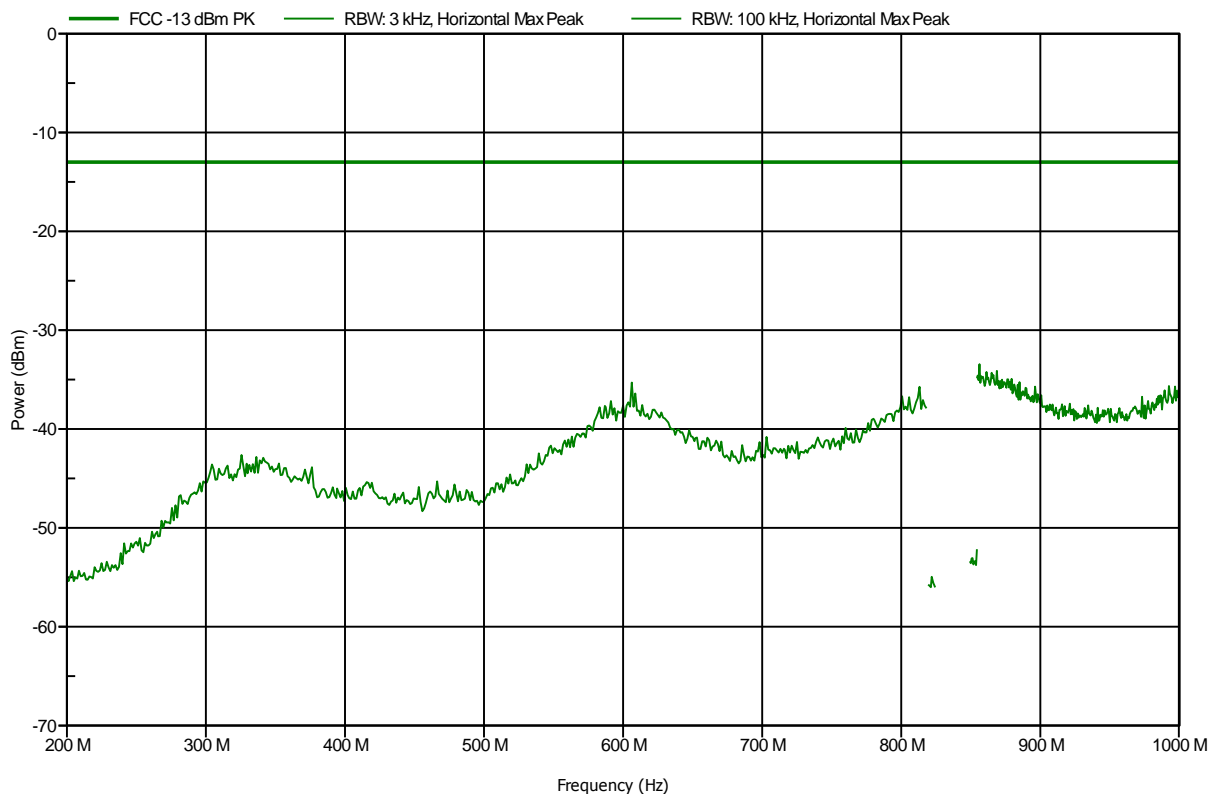


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 251; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 342

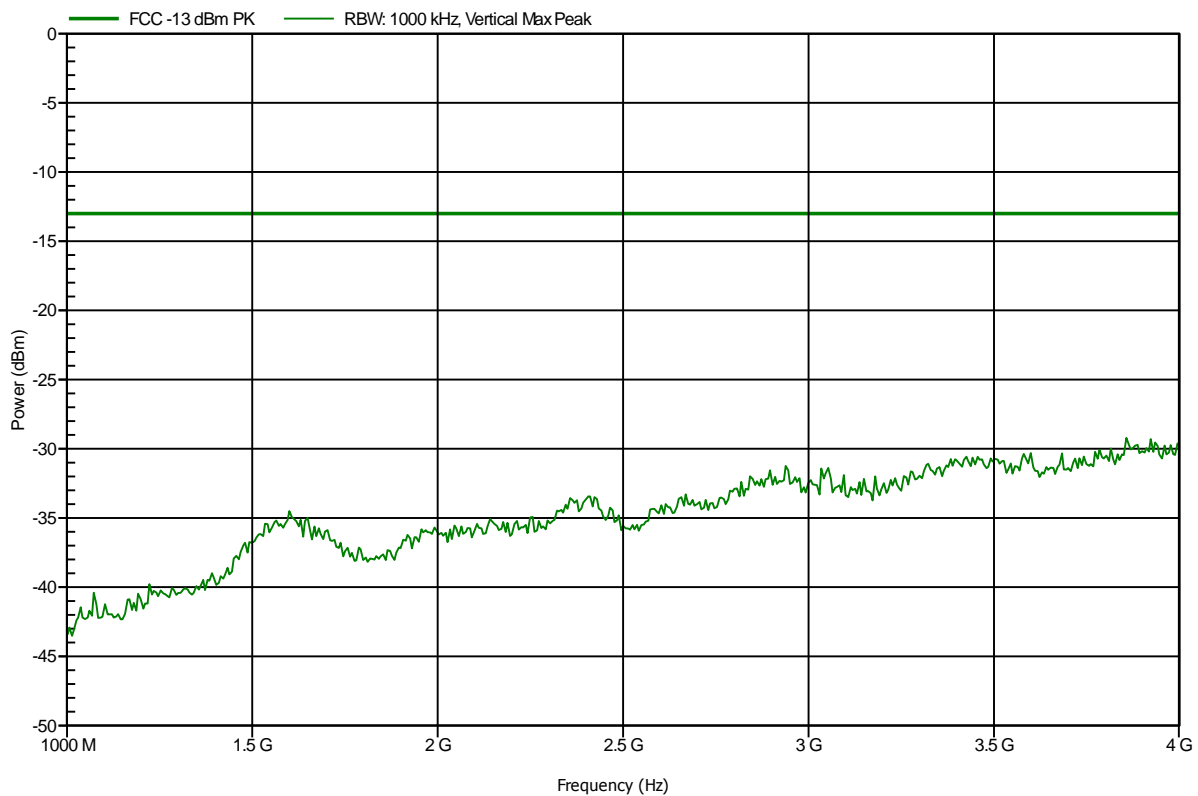


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 128; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 352

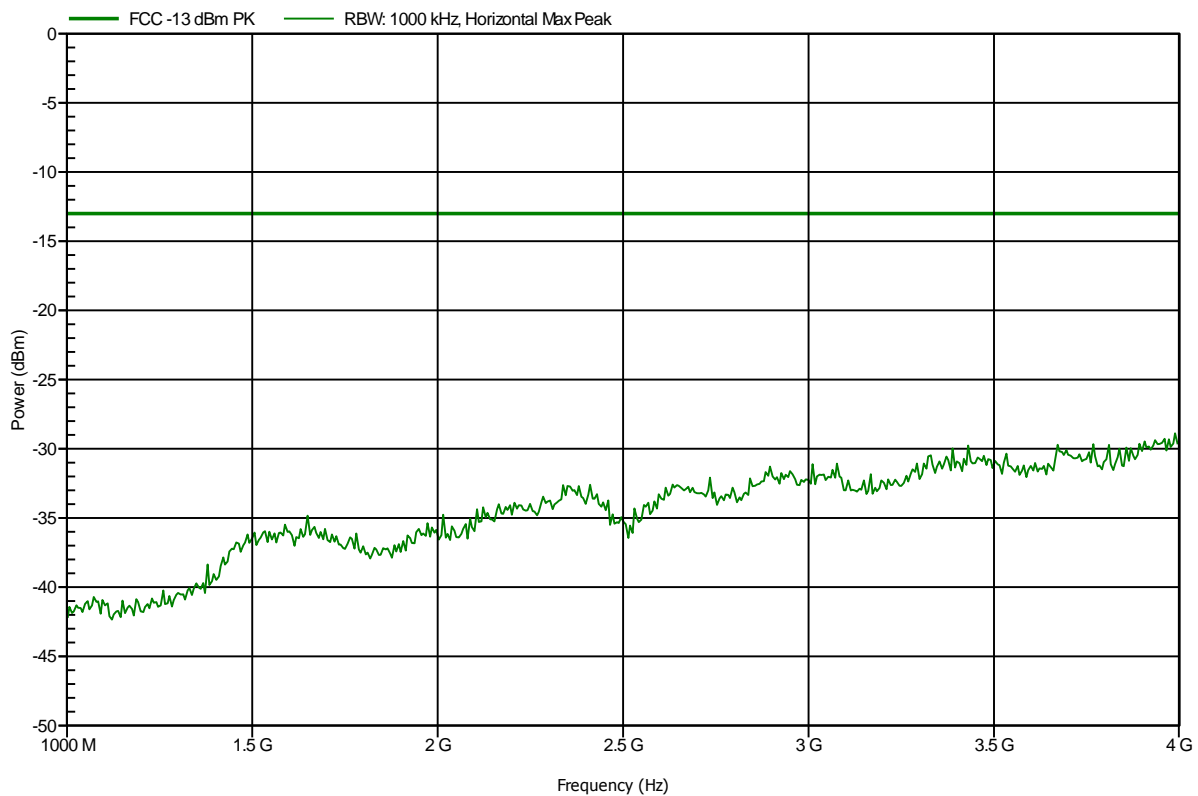


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 128; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 361

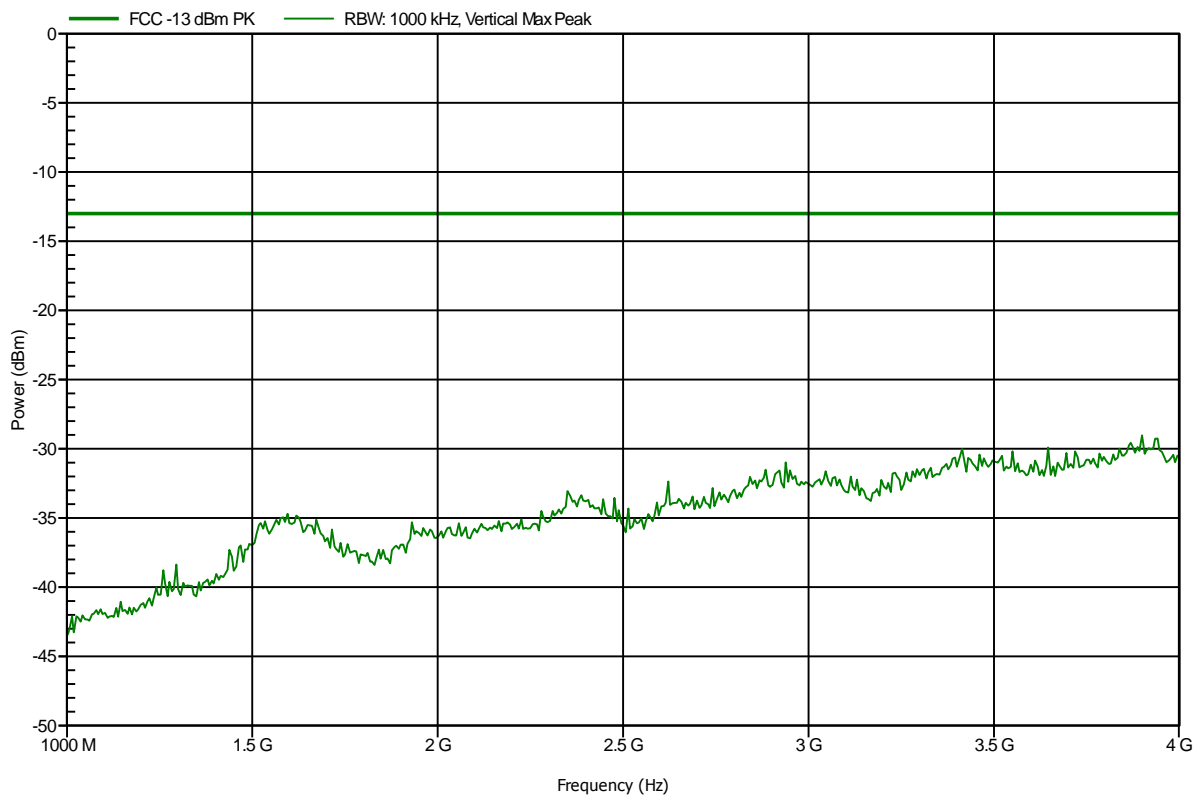


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 188; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 349

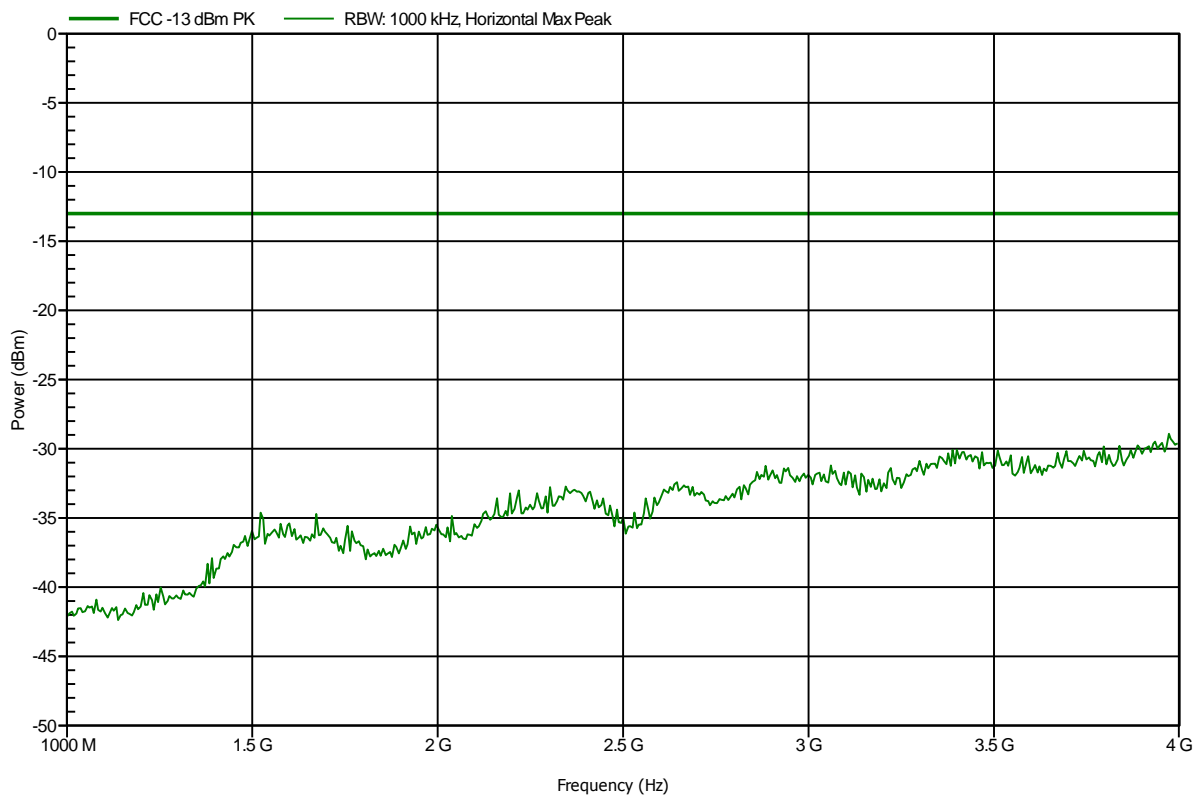


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 188; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 358

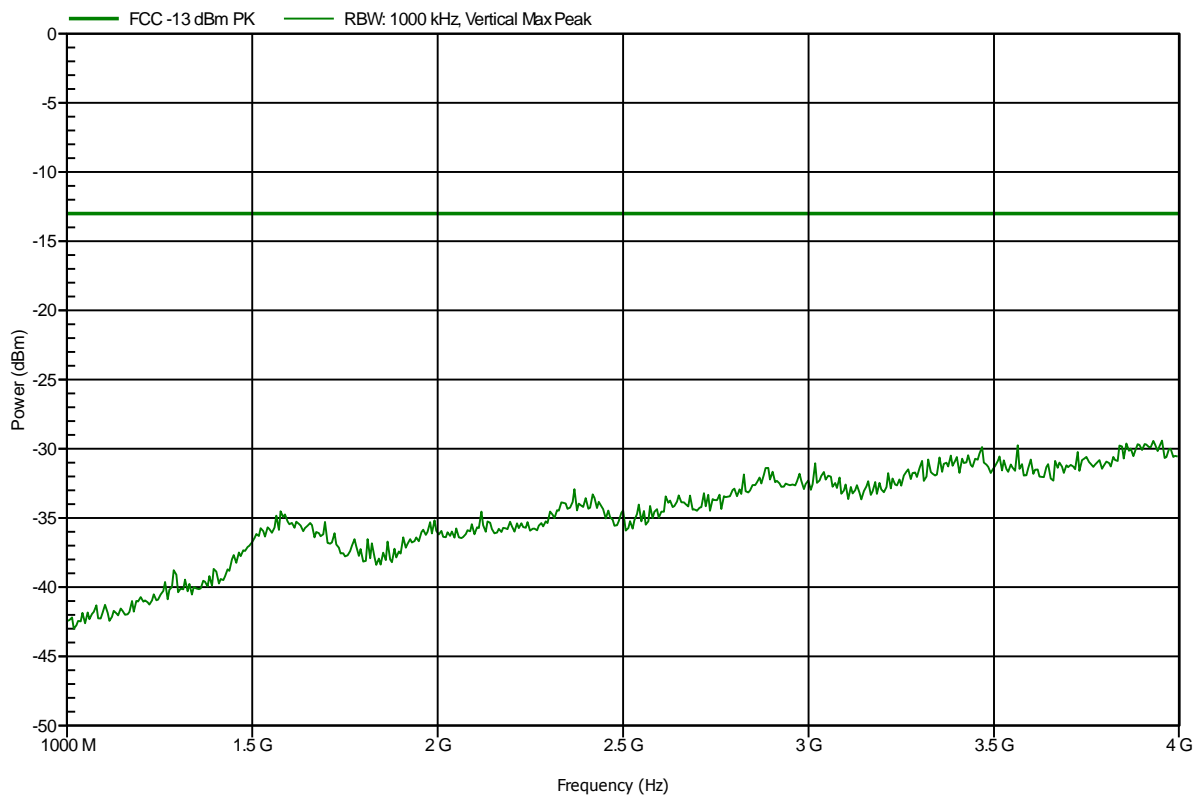


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 251; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 355



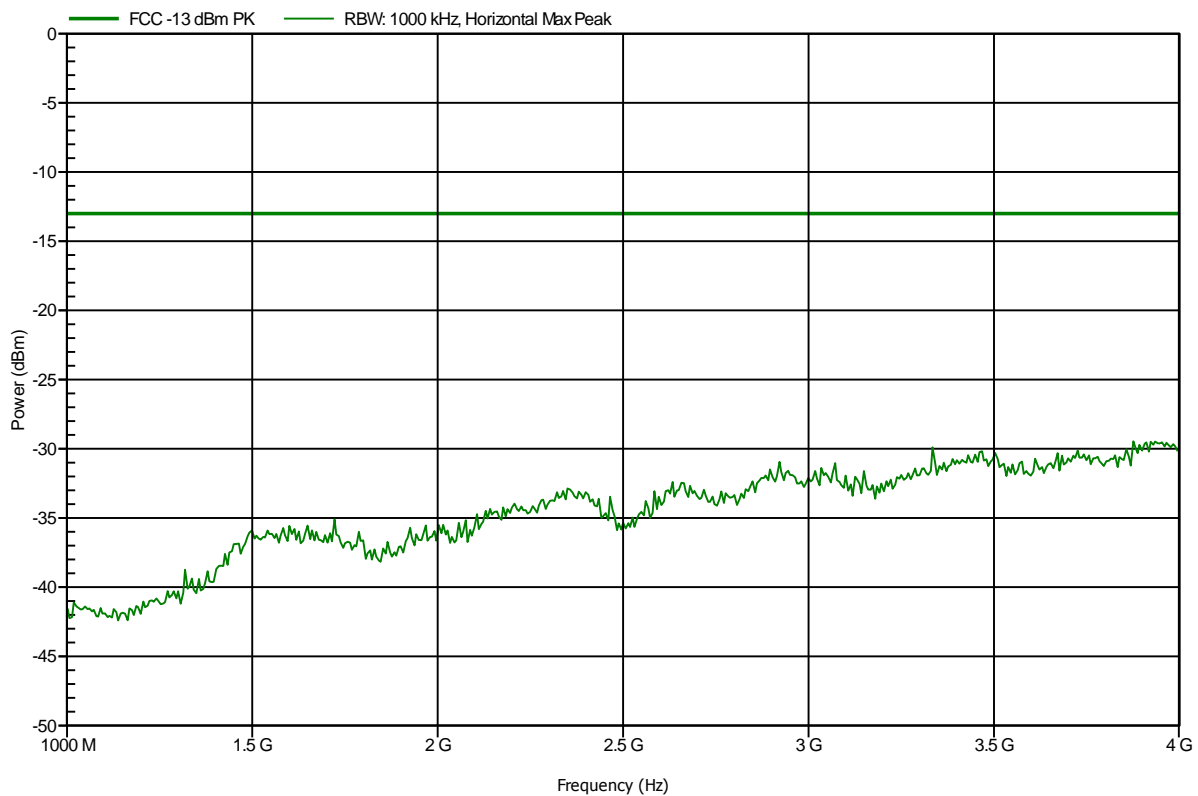


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 251; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 364

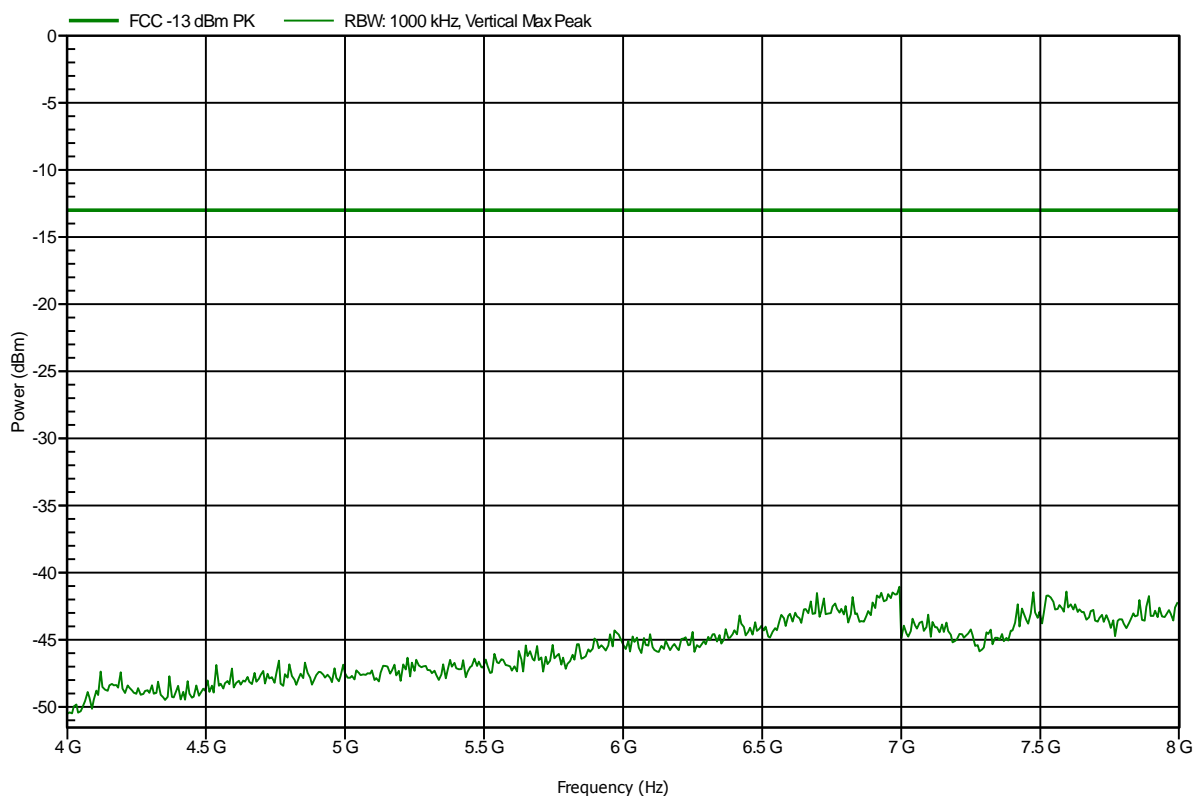


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 128; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 353

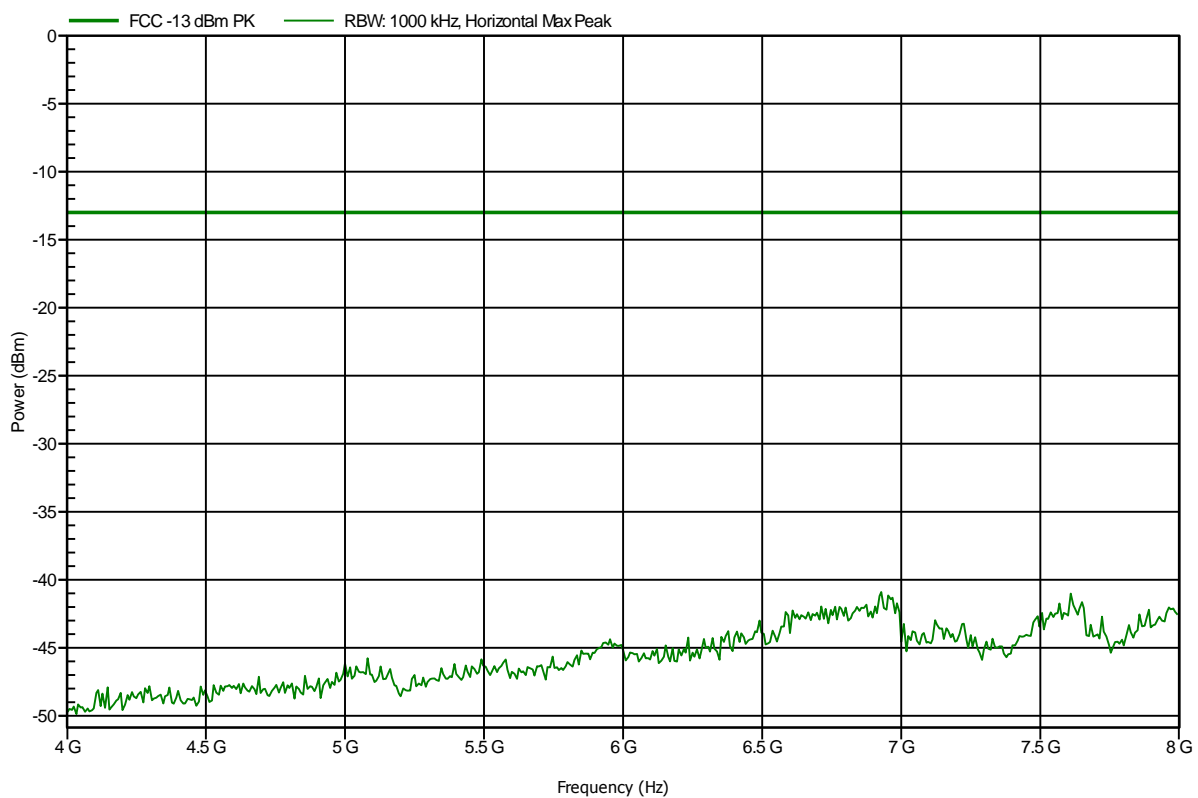


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 128; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 362

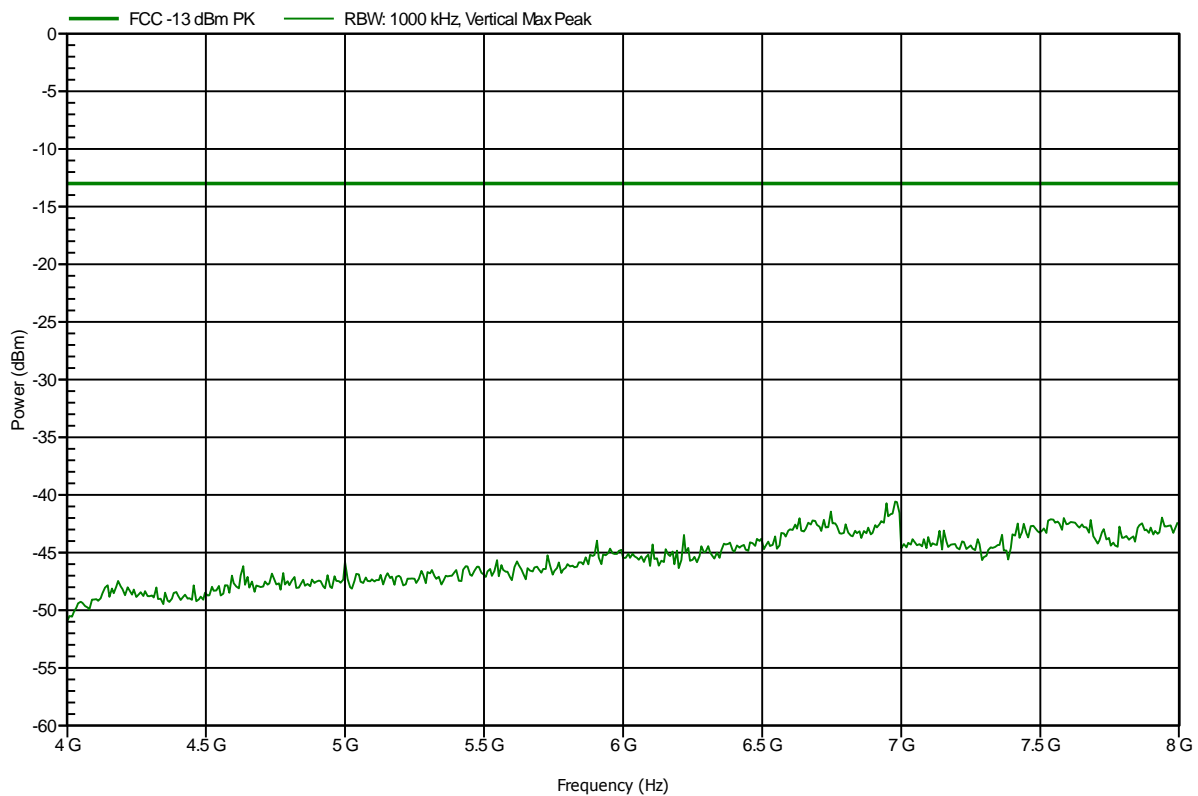


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 188; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 350

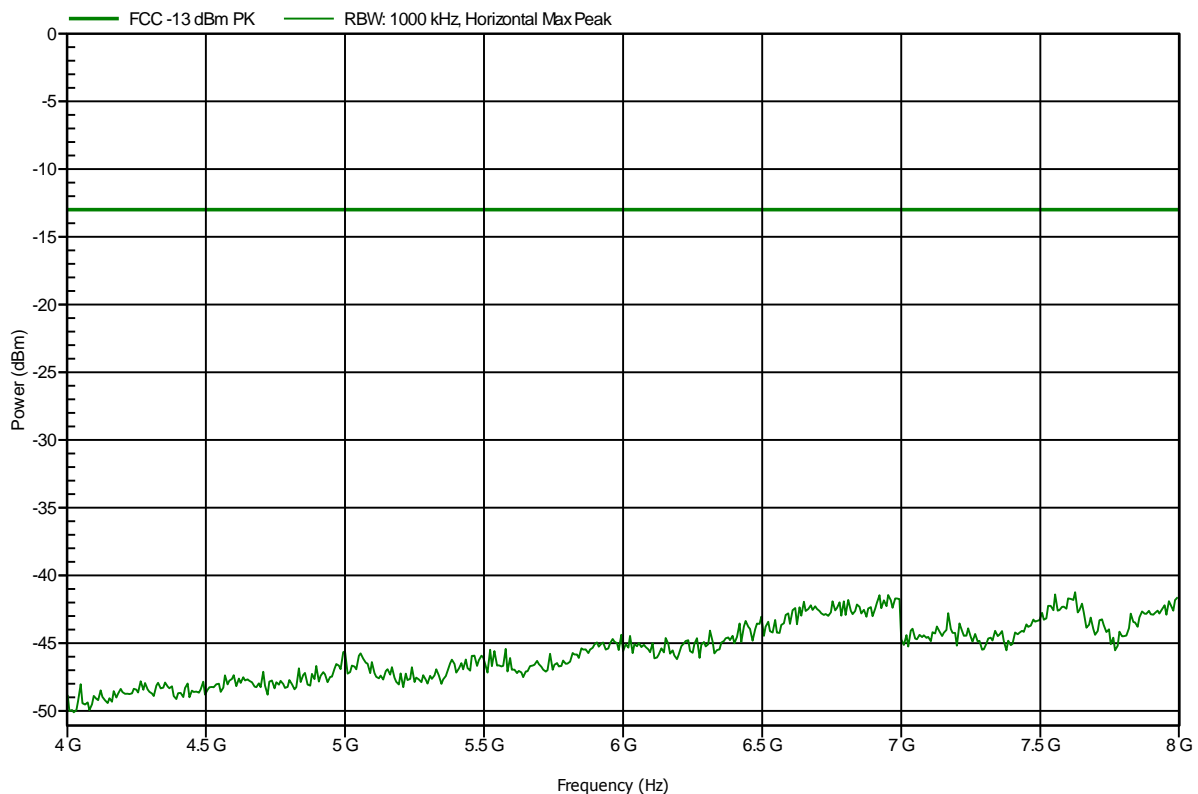


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 188; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 359

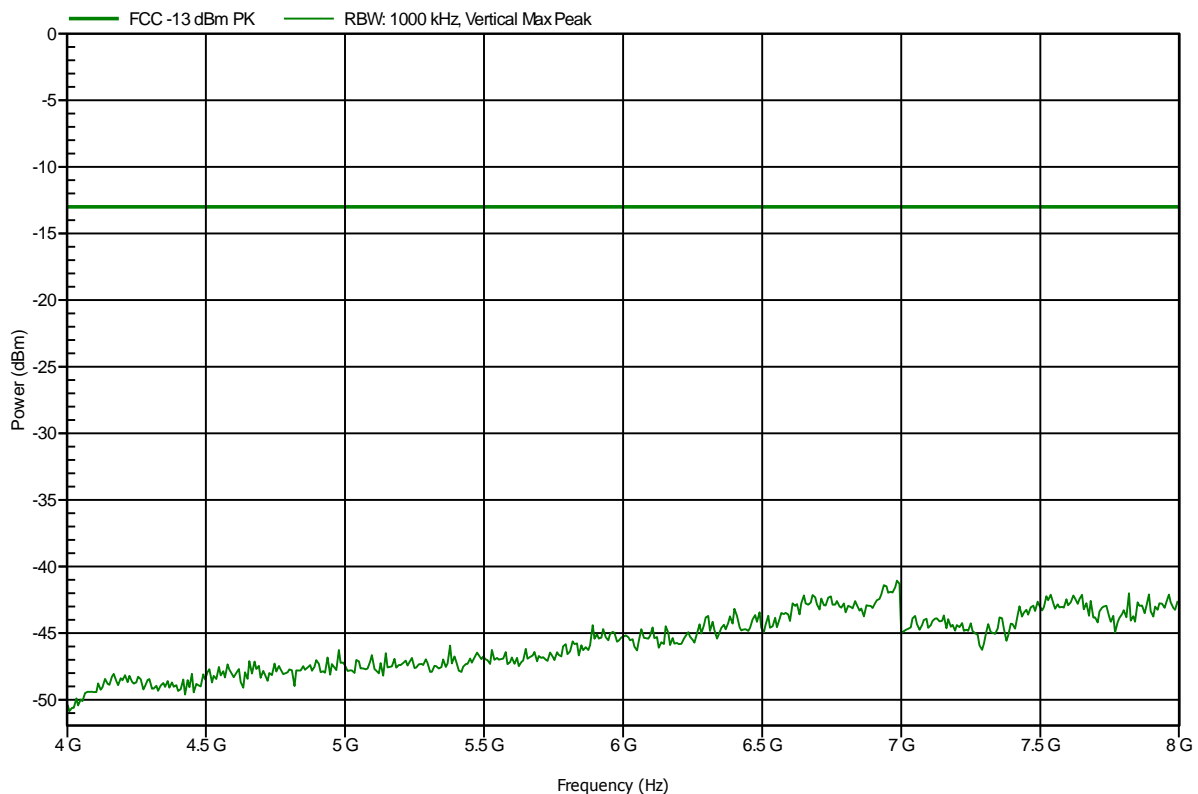


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 251; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 356

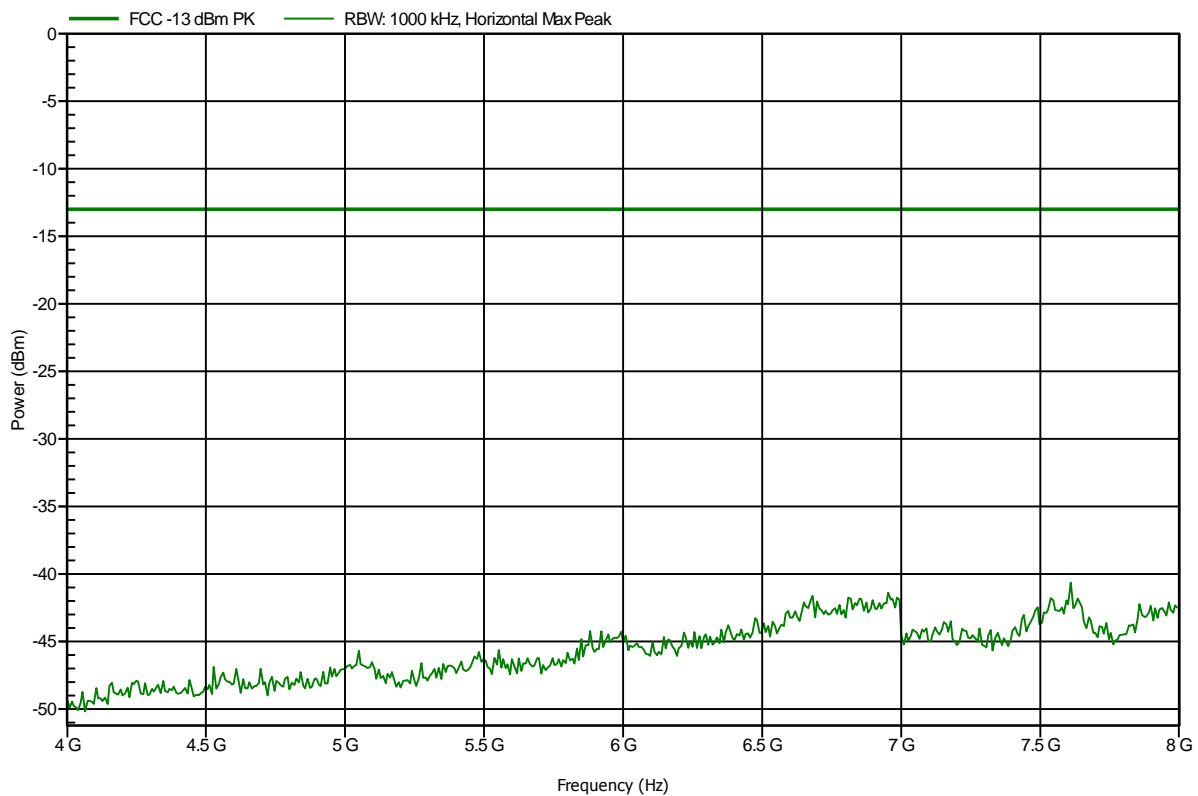


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 251; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 365

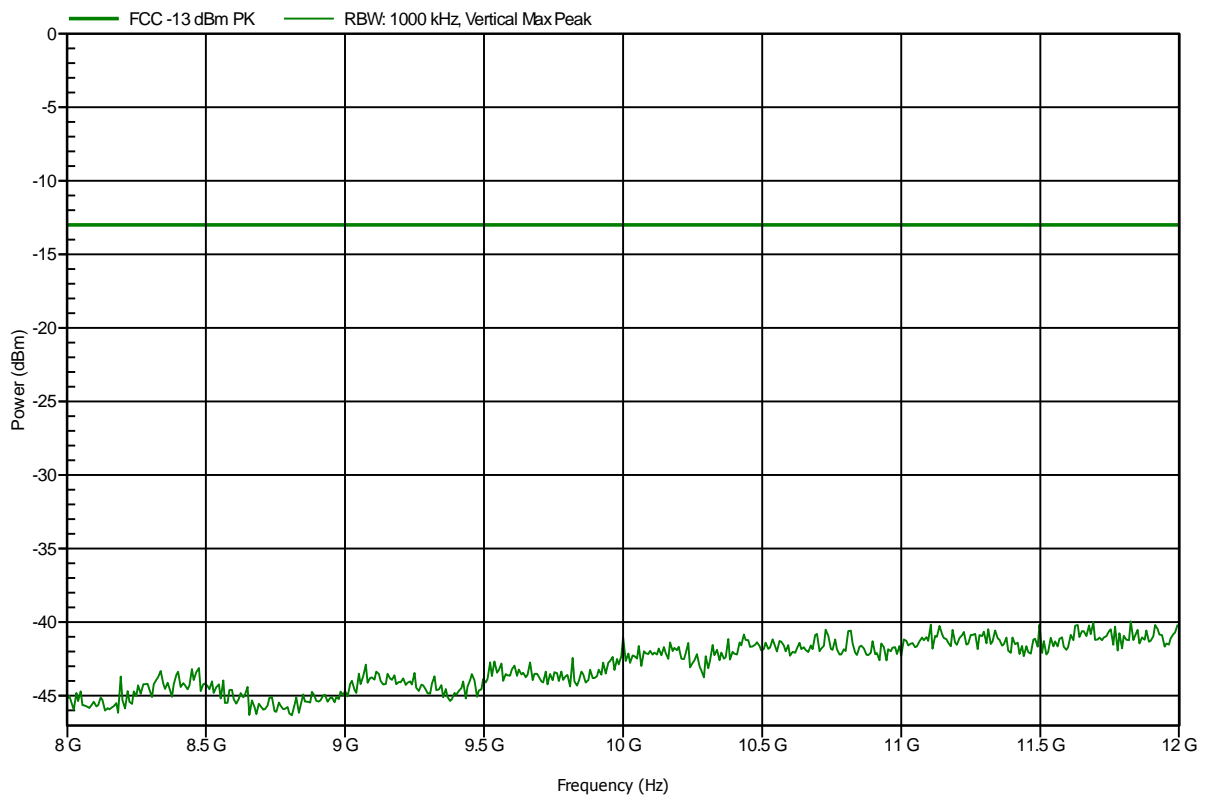


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 128; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 354



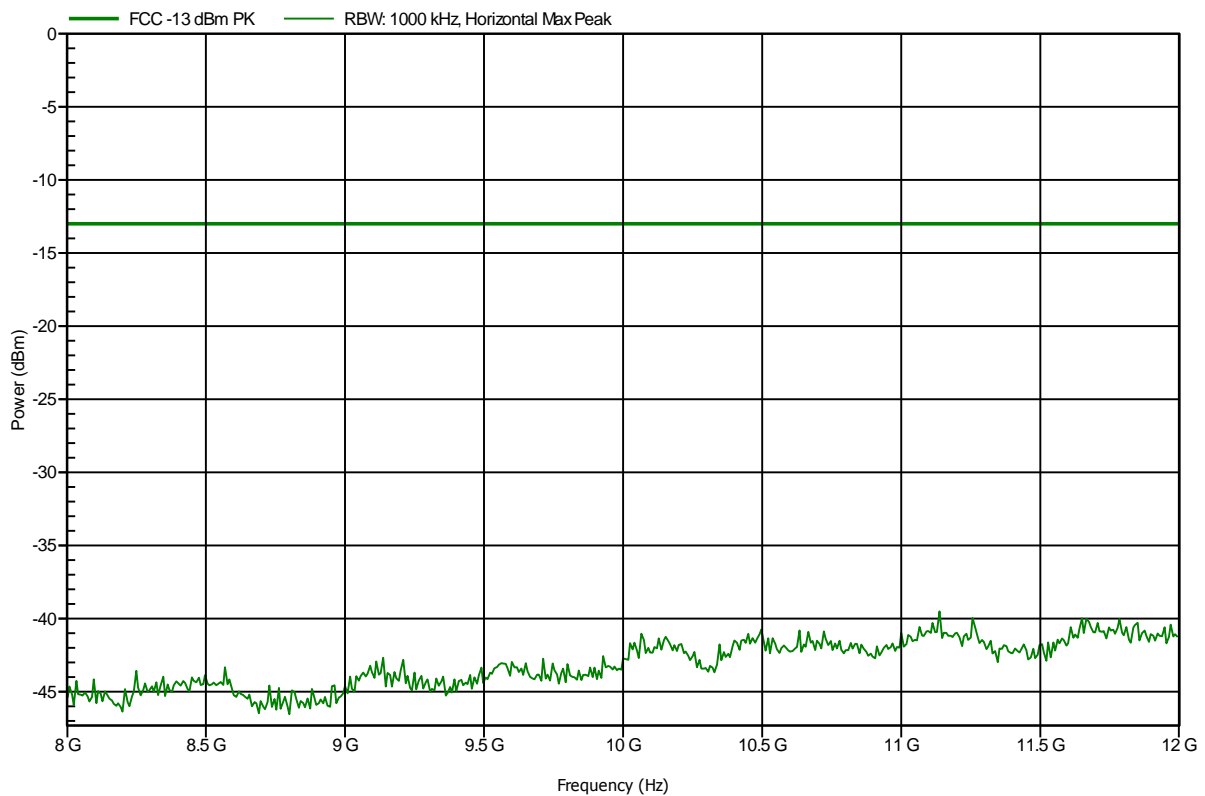


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 128; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 363

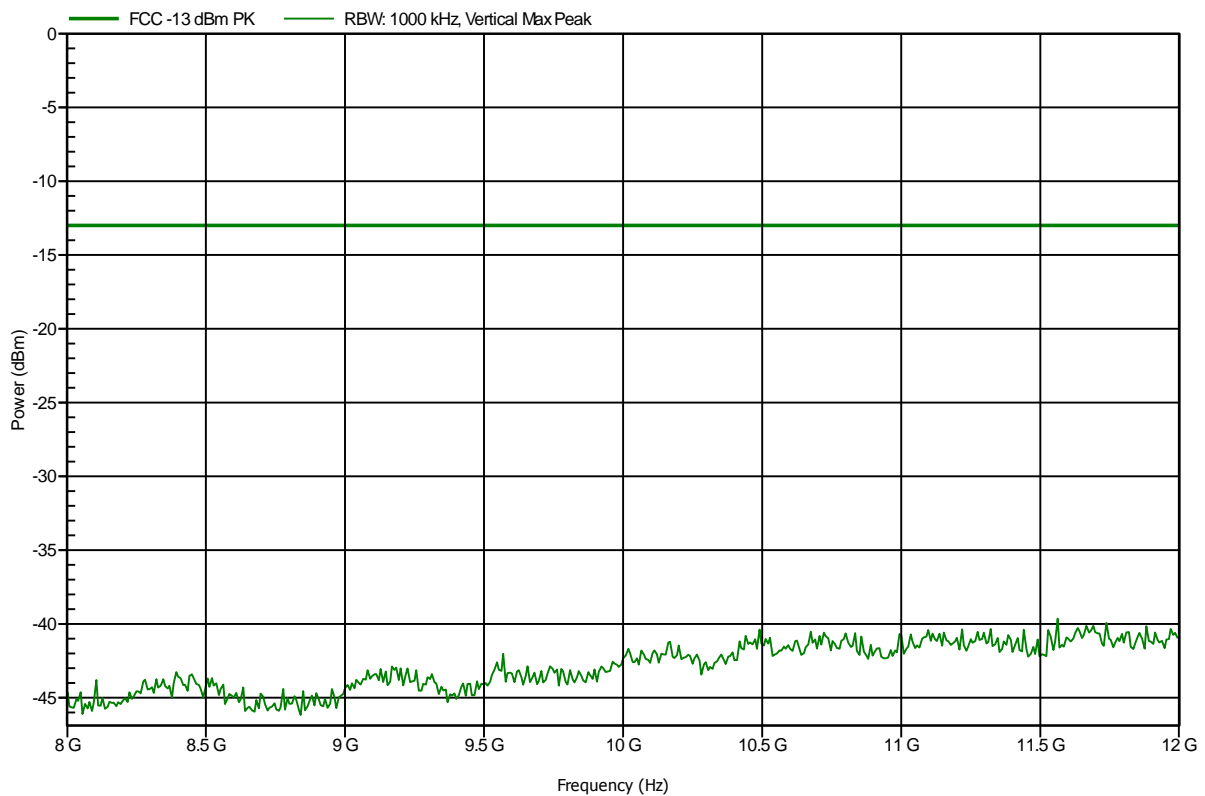


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 188; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 351

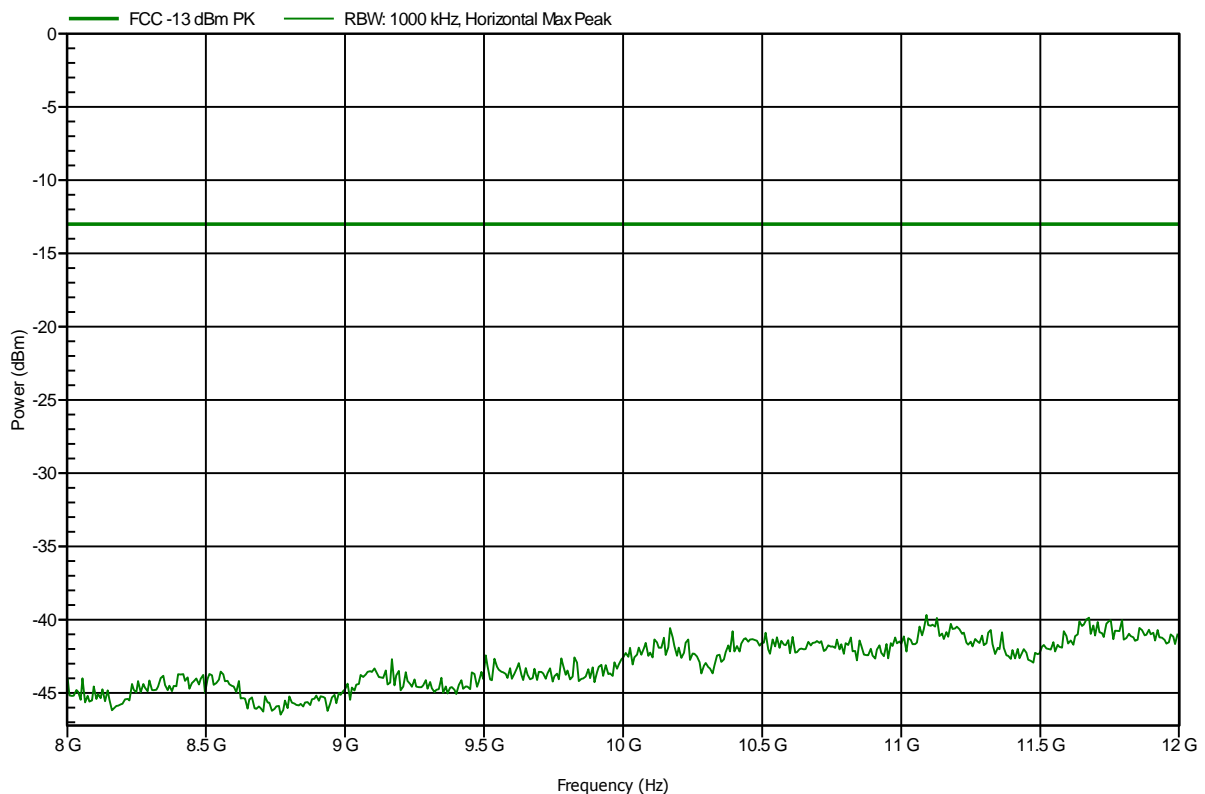


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 188; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 360

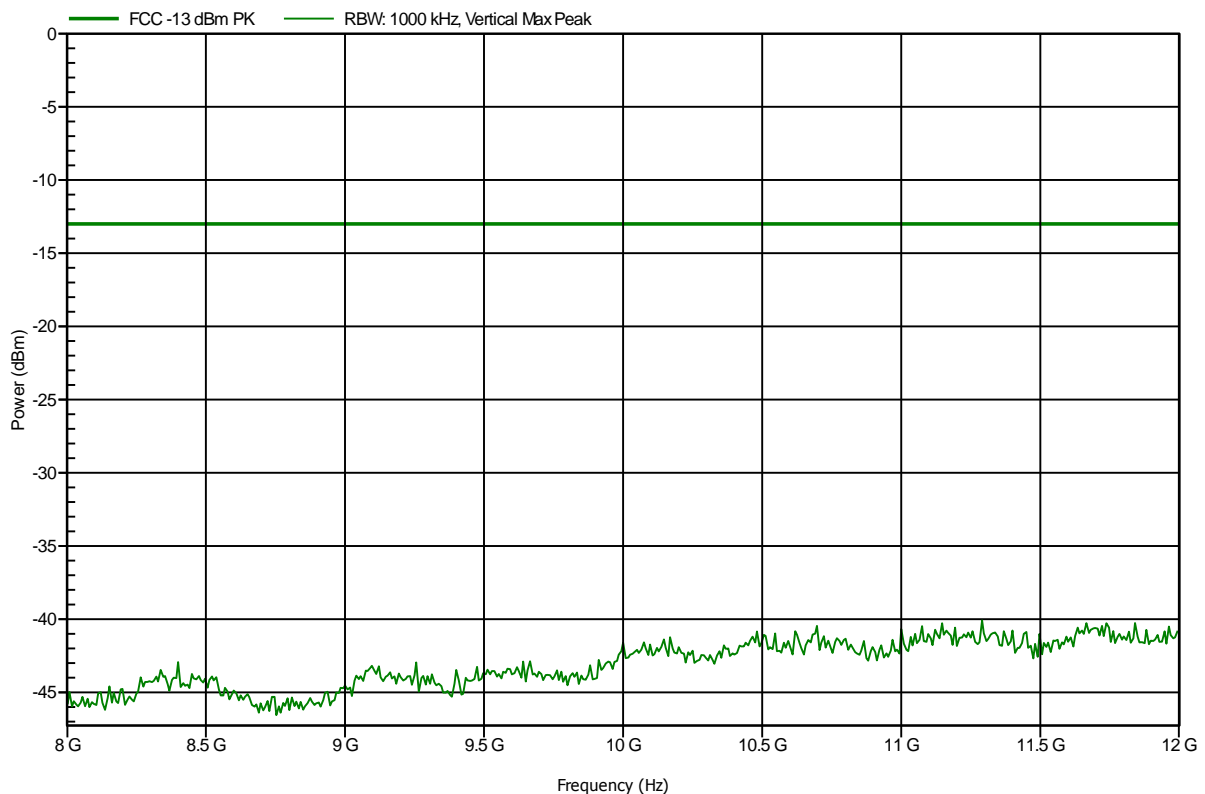


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 251; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 357

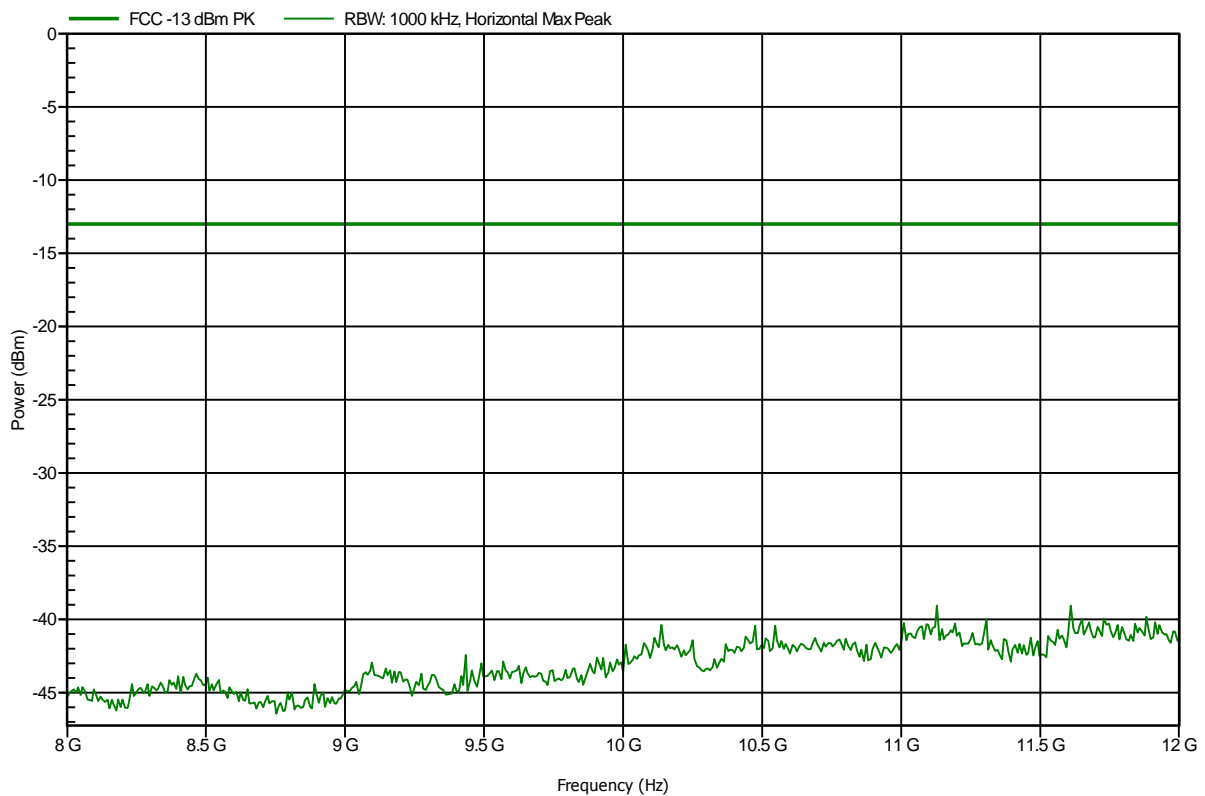


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850; CH: 251; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical; worst case

Index 366

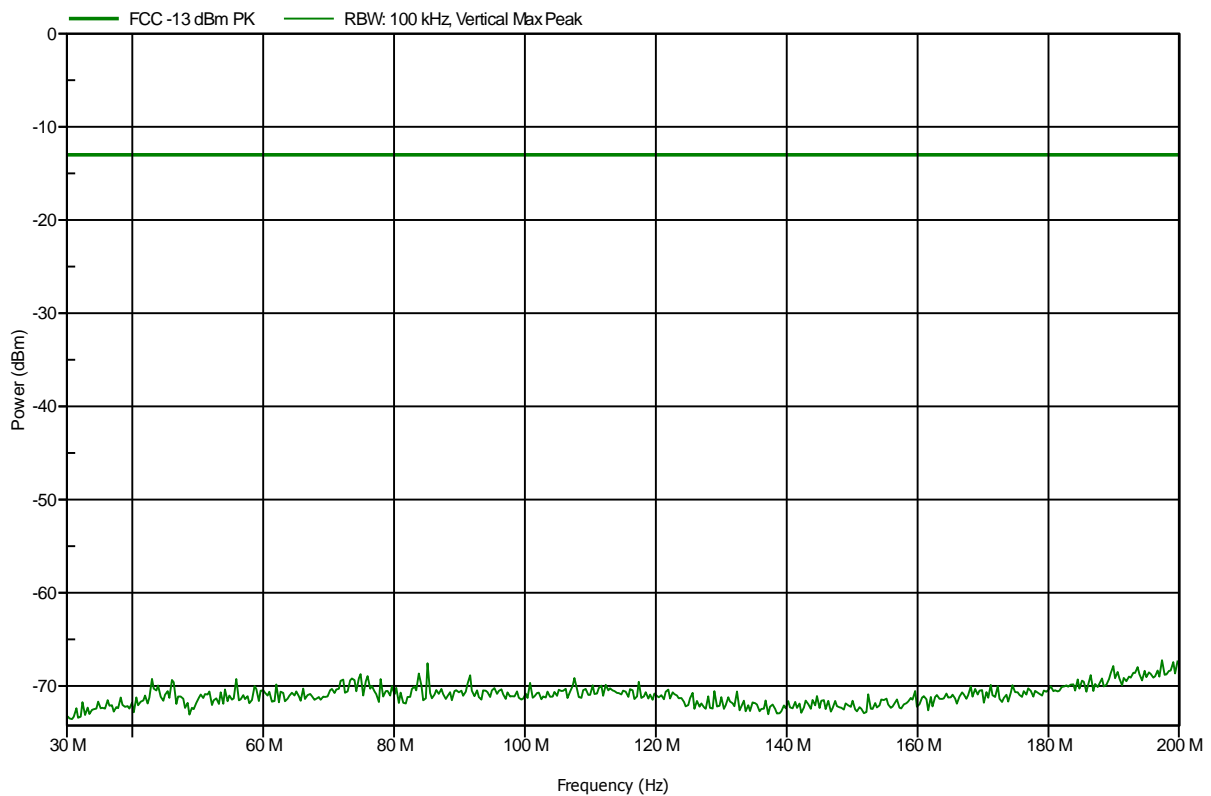


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH: 661; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 373

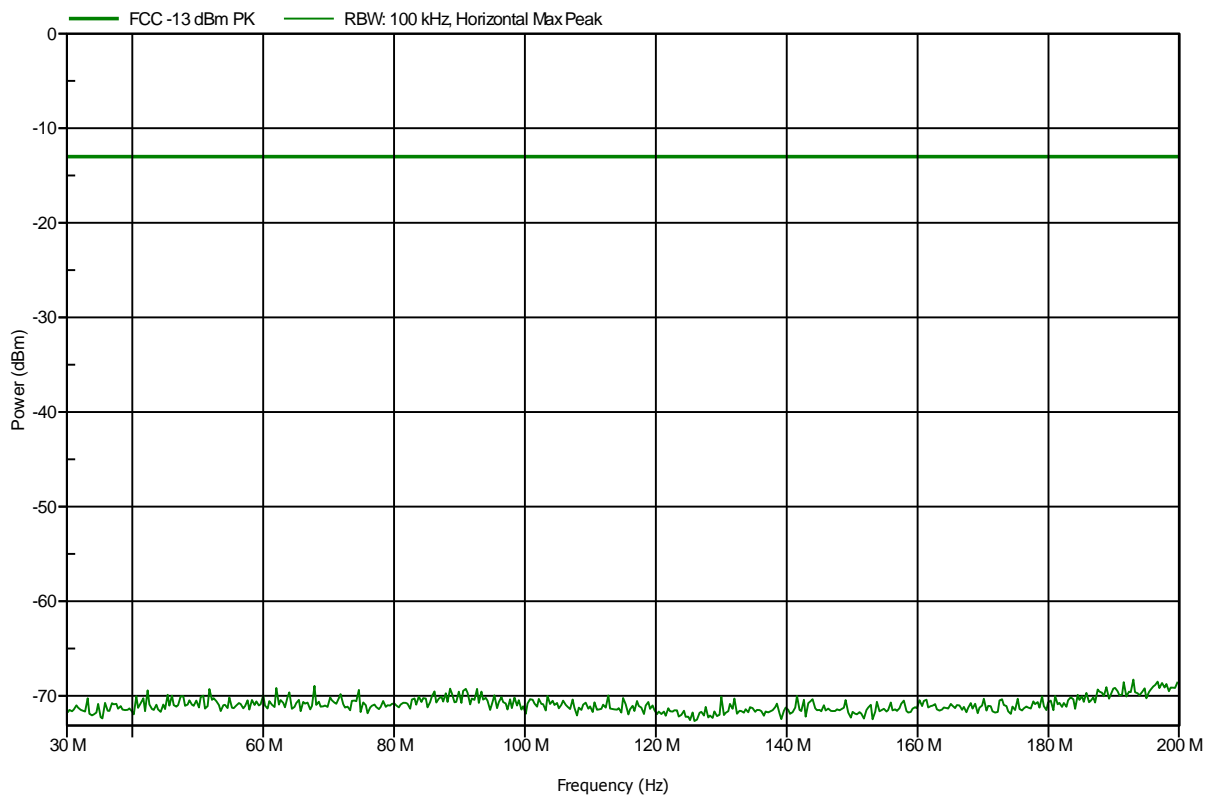


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH: 661; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 374

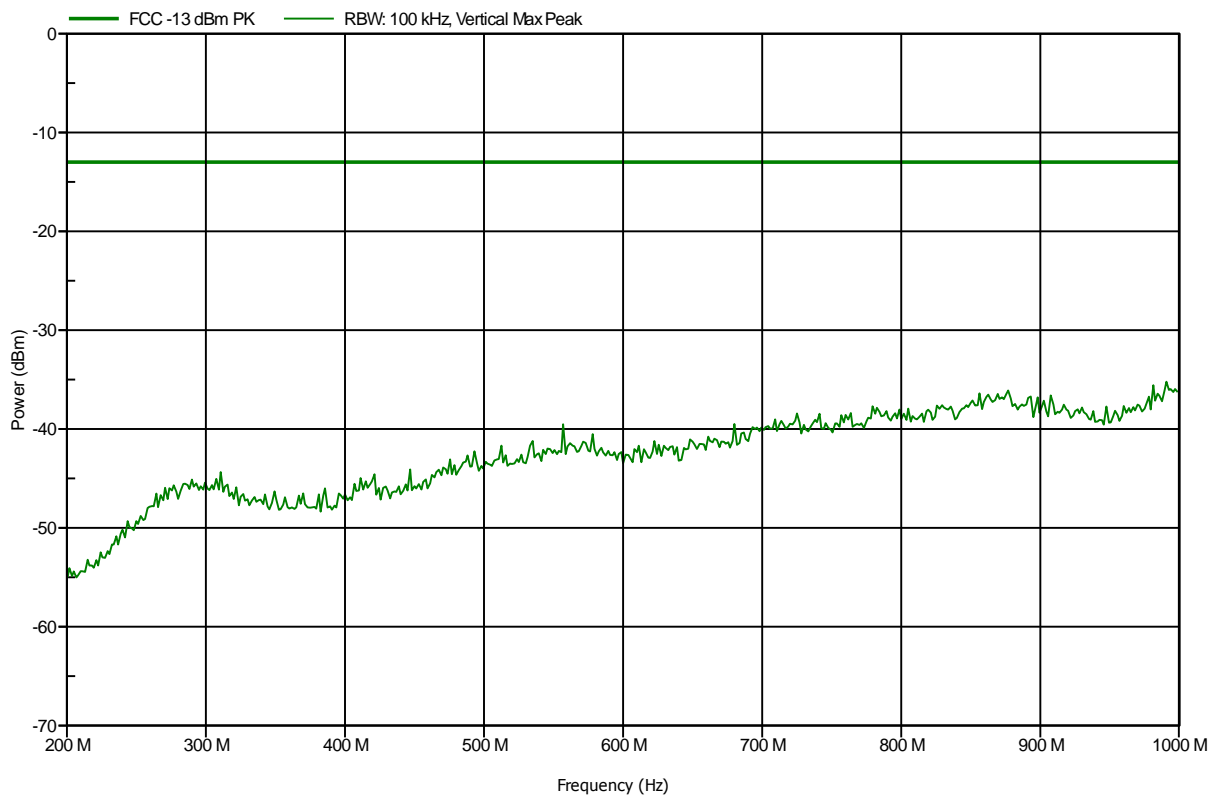


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH: 512; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 369



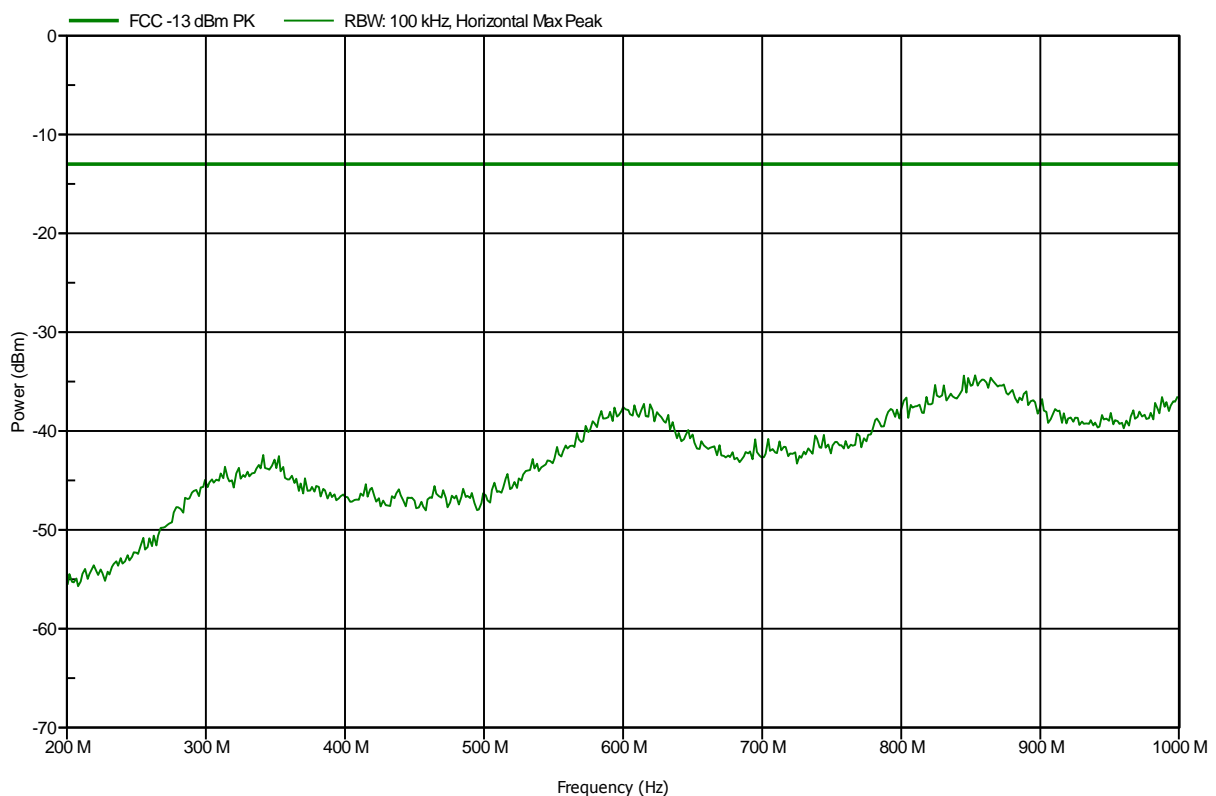


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH: 512; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 370

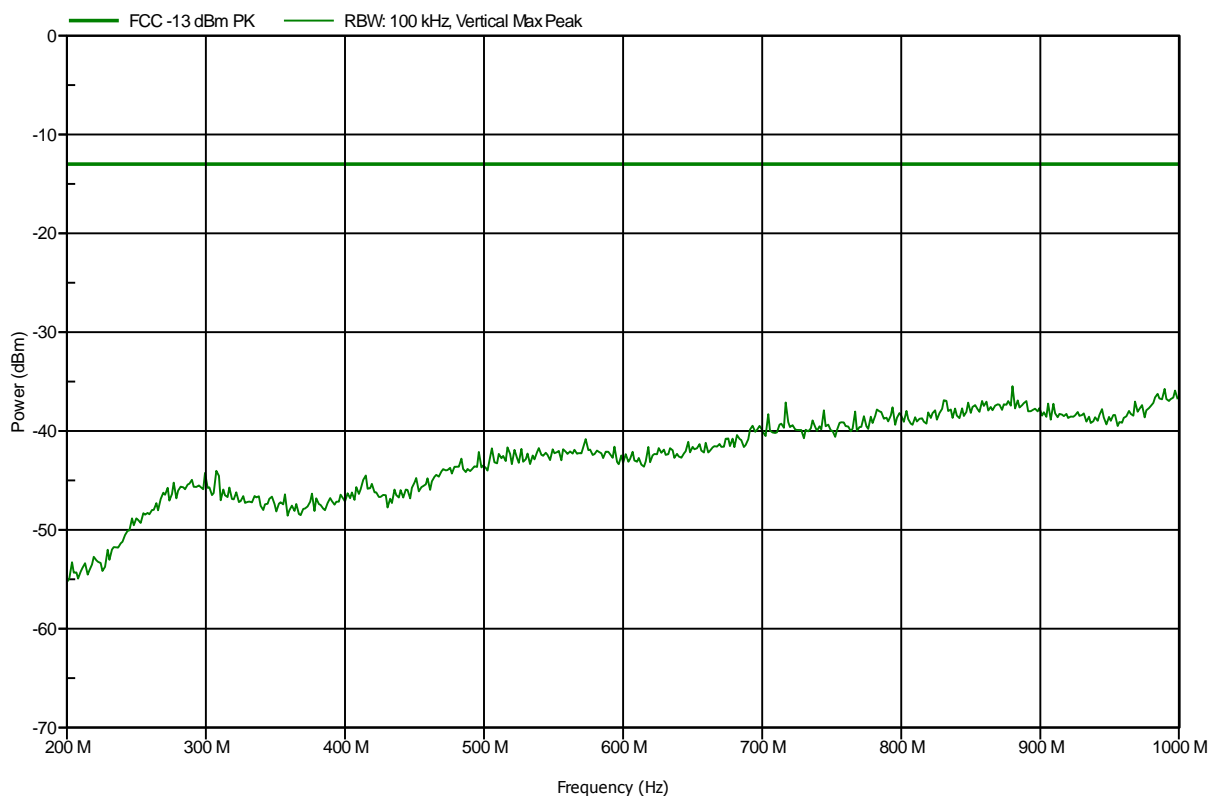


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH: 661; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 367

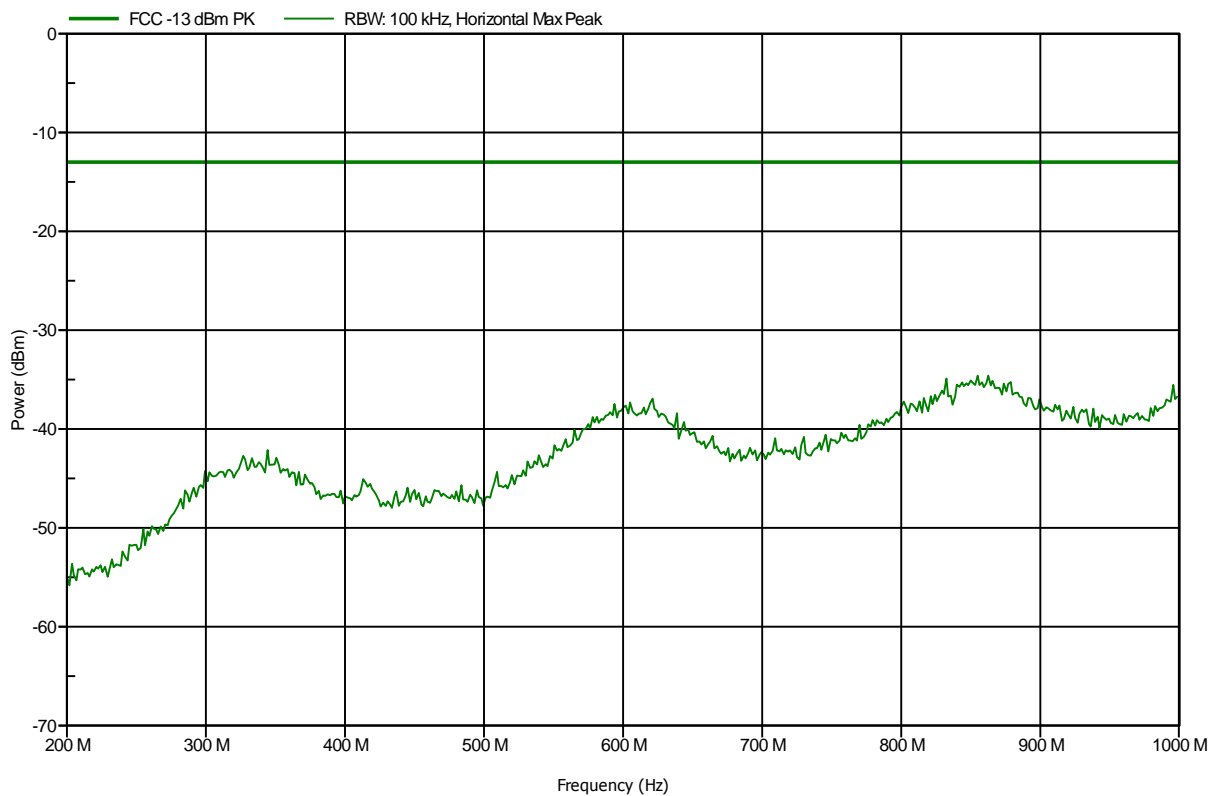


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH: 661; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 371

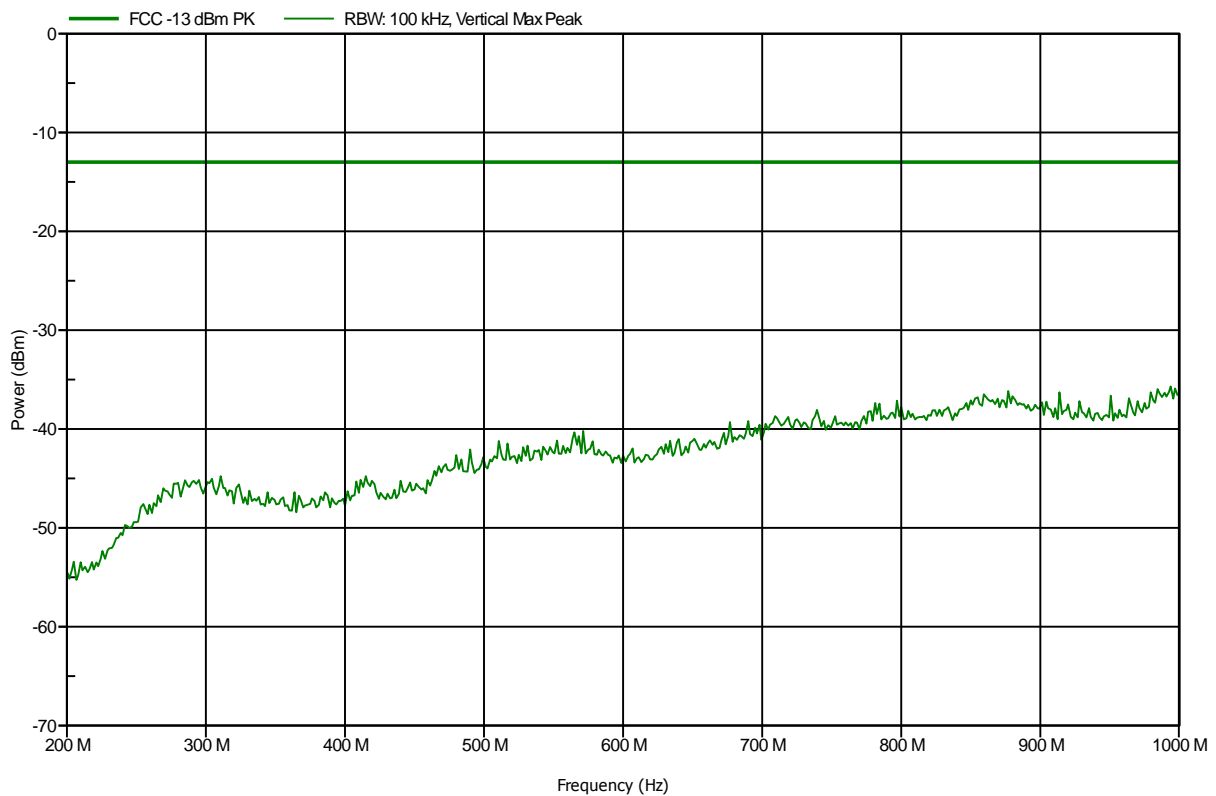


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH: 810; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 368

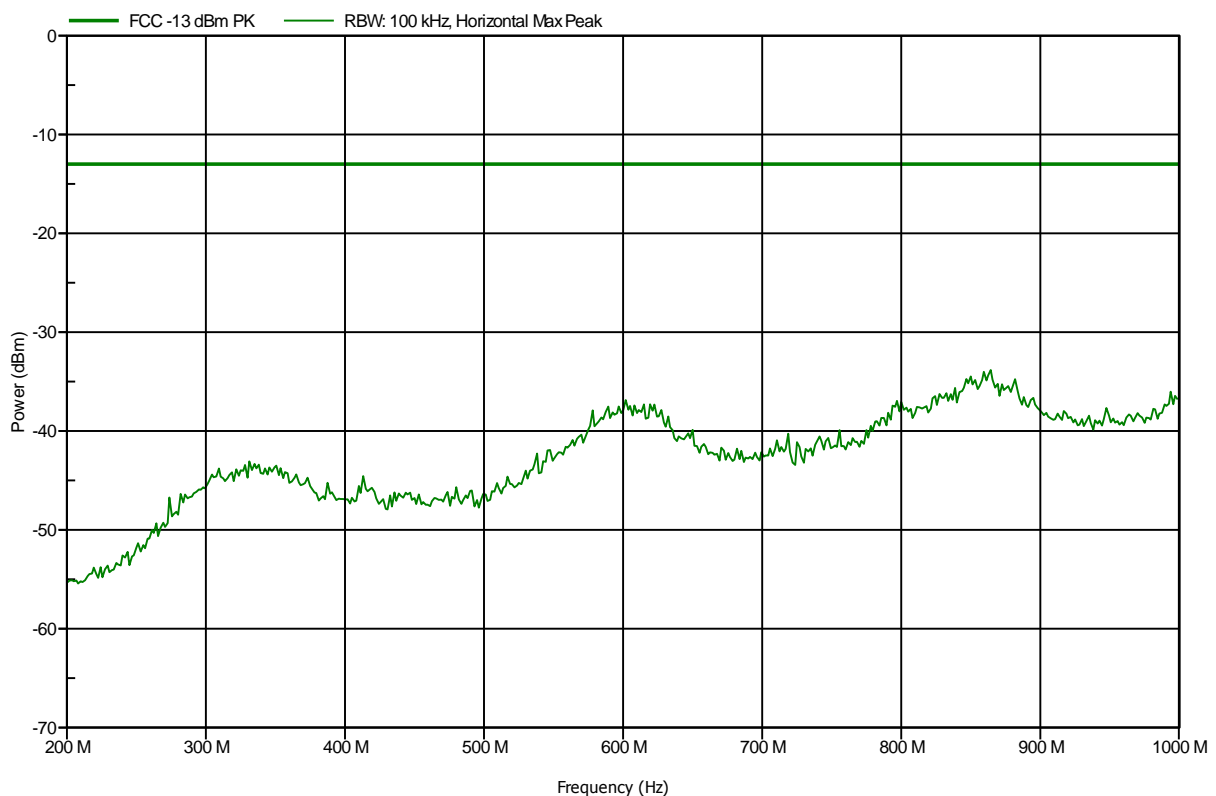


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH: 810; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 372

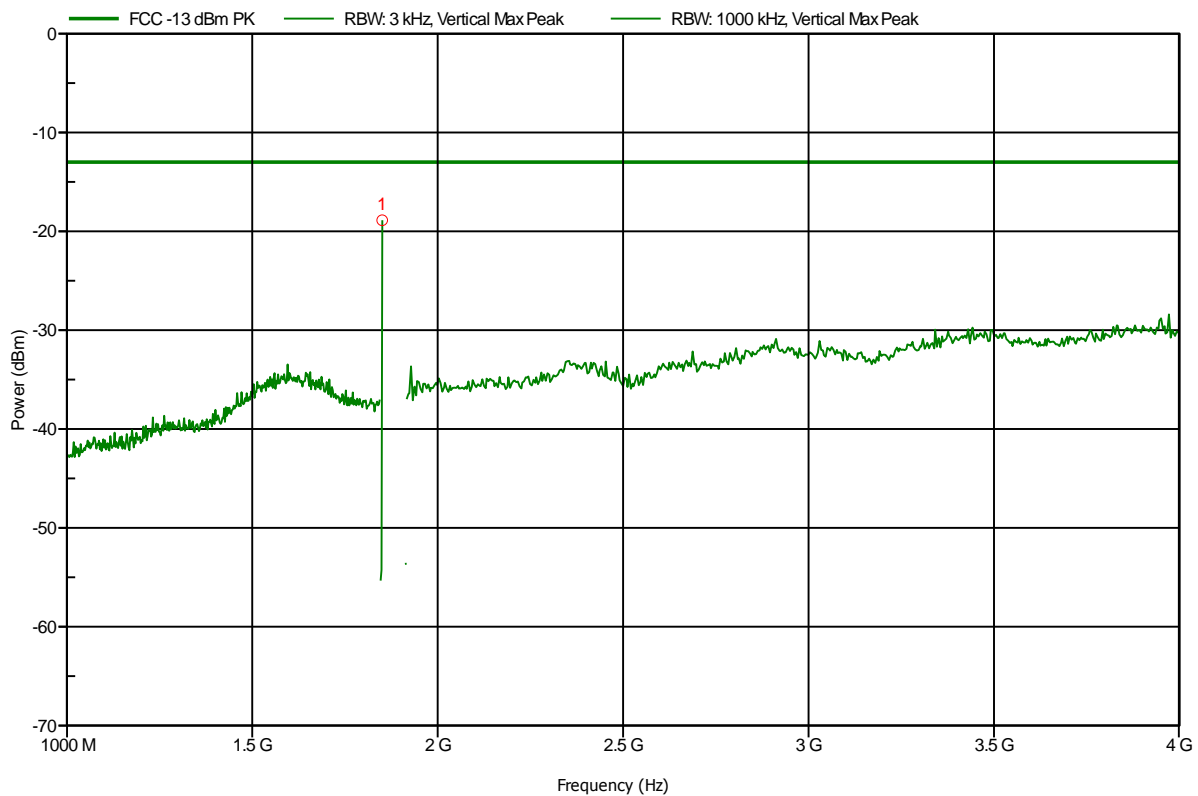


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 025, Vertical  
 Measurement distance: 3 m  
 Mode: TX; GPRS 1900; CH:512; UL 1xSlot; Pmax; Ant: integral  
 Test Date: 2013-12-11  
 Note: EUT vertical

Index 387



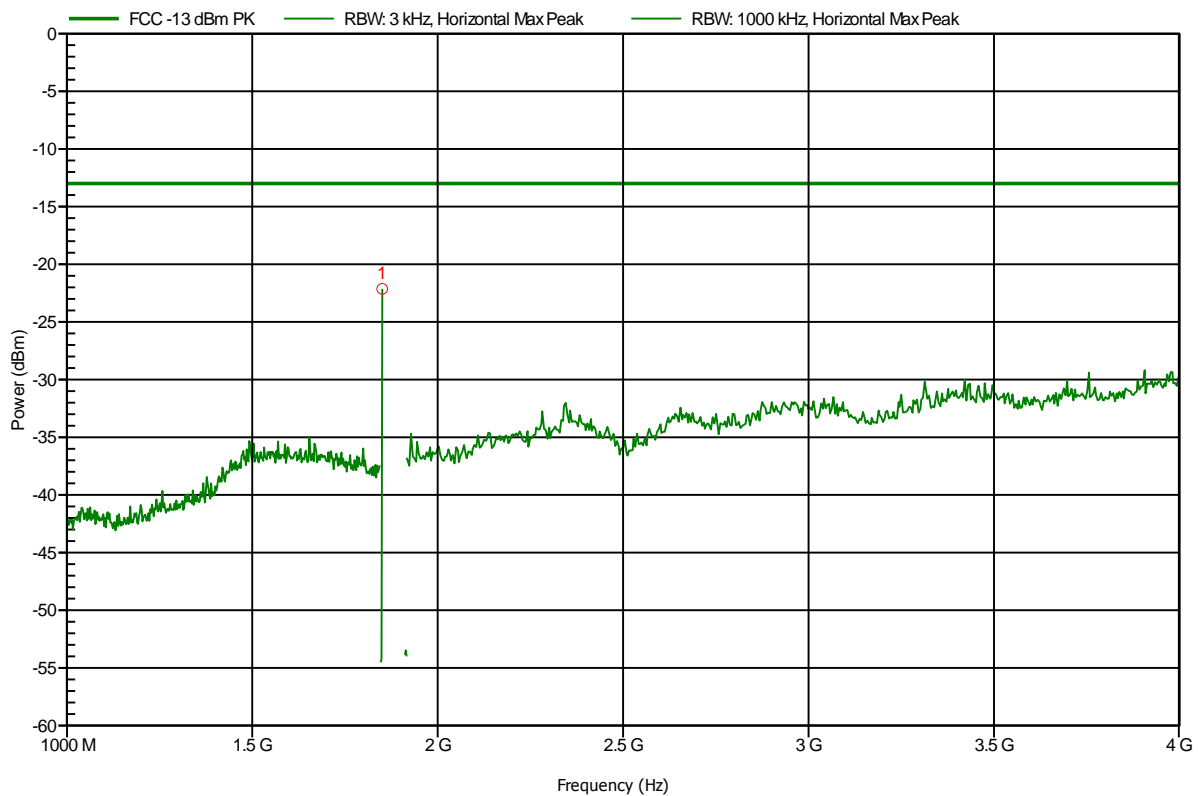
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.85 GHz	-18.9 dBm	-13 dBm	-5.88 dB	Pass

**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 025, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; GPRS 1900; CH:512; UL 1xSlot; Pmax; Ant: integral  
 Test Date: 2013-12-11  
 Note: EUT vertical

Index 395



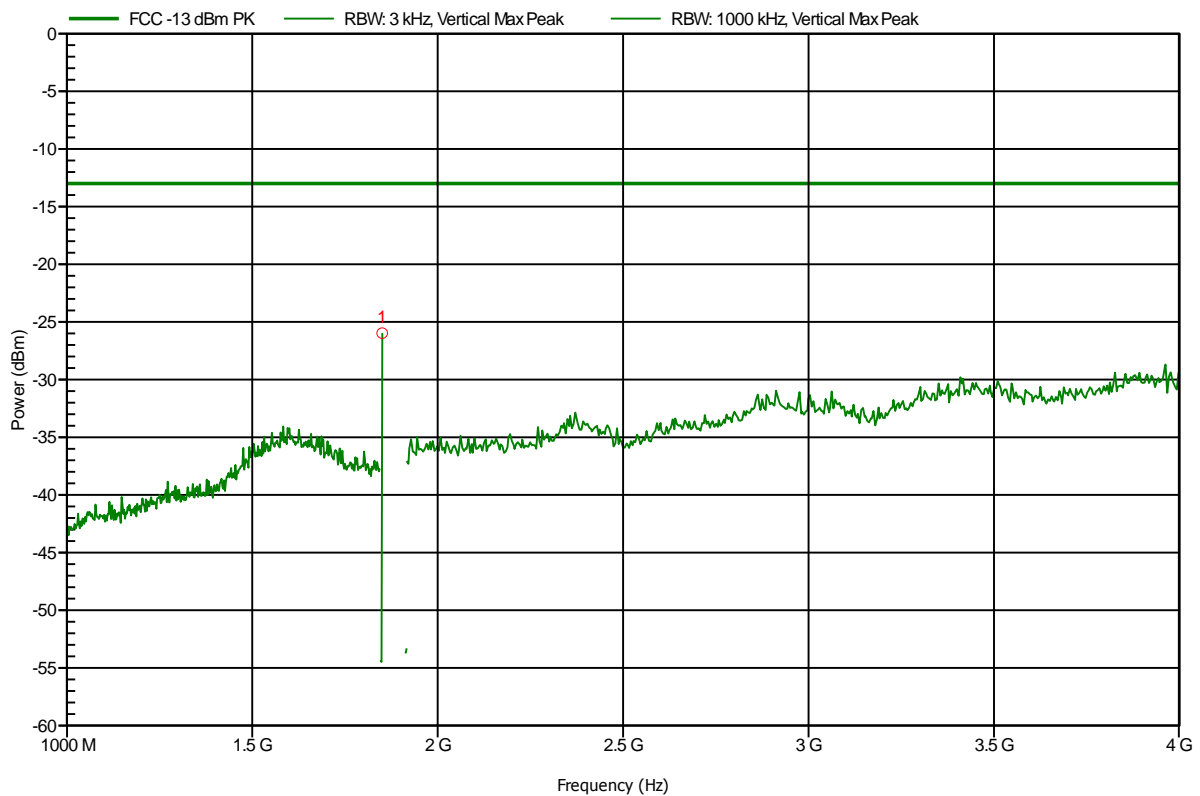
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.85 GHz	-22.1 dBm	-13 dBm	-9.13 dB	Pass

**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 025, Vertical  
 Measurement distance: 3 m  
 Mode: TX; EDGE 1900; CH:512; UL 1xSlot; Pmax; Ant: integral  
 Test Date: 2013-12-11  
 Note: EUT vertical

Index 388



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.85 GHz	-26 dBm	-13 dBm	-12.97 dB	Pass

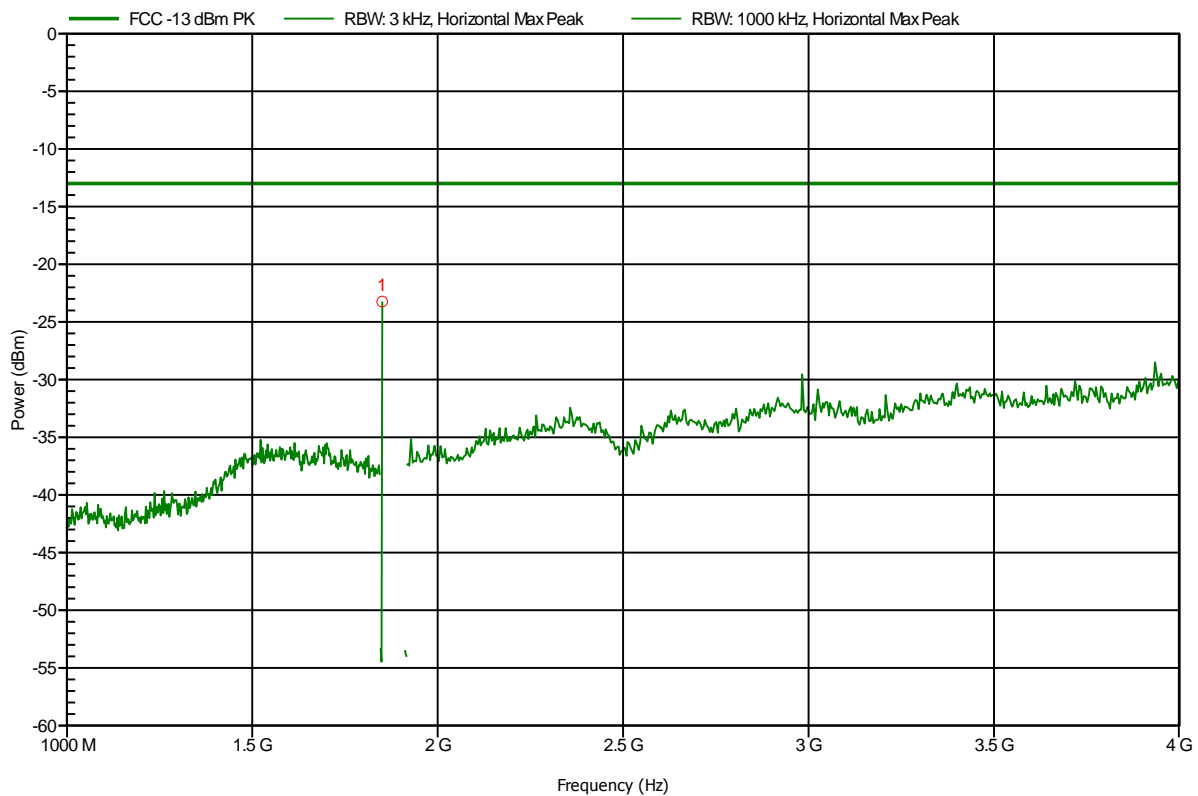


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 025, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; EDGE 1900; CH:512; UL 1xSlot; Pmax; Ant: integral  
 Test Date: 2013-12-11  
 Note: EUT vertical

Index 396



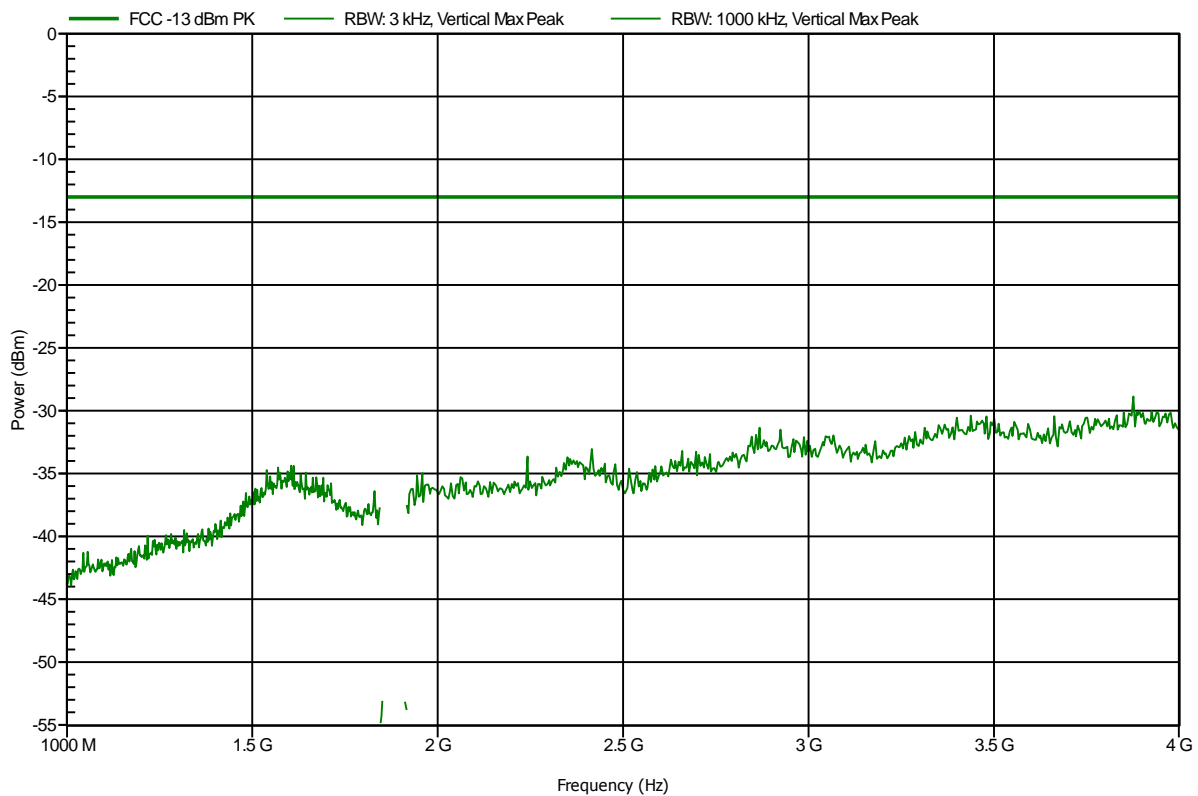
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.85 GHz	-23.2 dBm	-13 dBm	-10.23 dB	Pass

**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:661; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 391

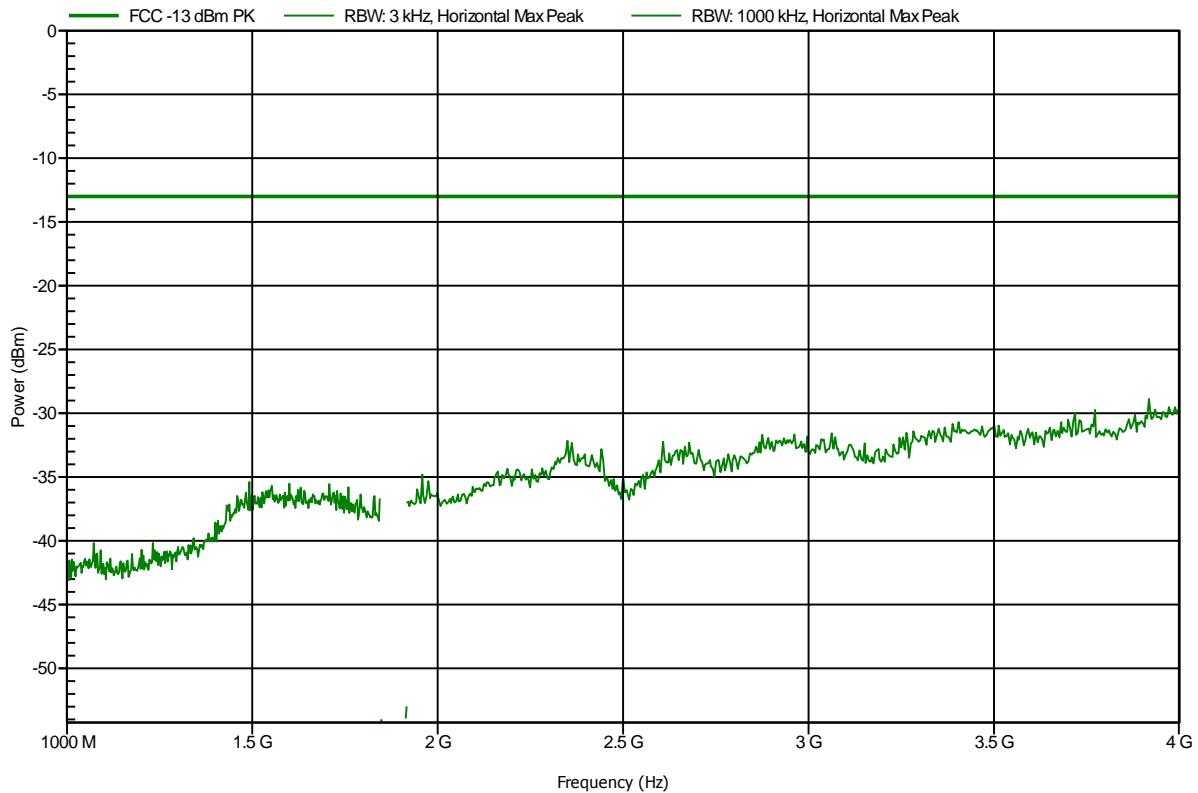


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:661; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 392

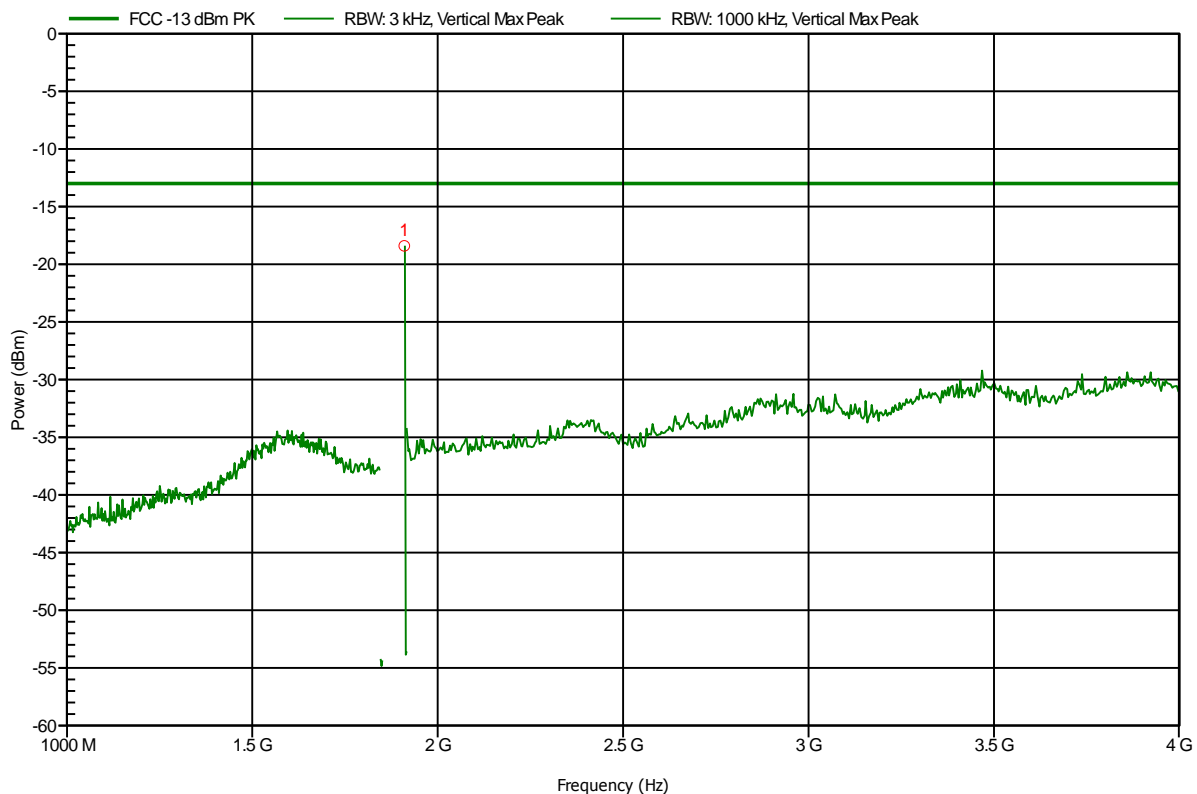


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 025, Vertical  
 Measurement distance: 3 m  
 Mode: TX; GPRS 1900; CH:810; UL 1xSlot; Pmax; Ant: integral  
 Test Date: 2013-12-11  
 Note: EUT vertical

Index 389



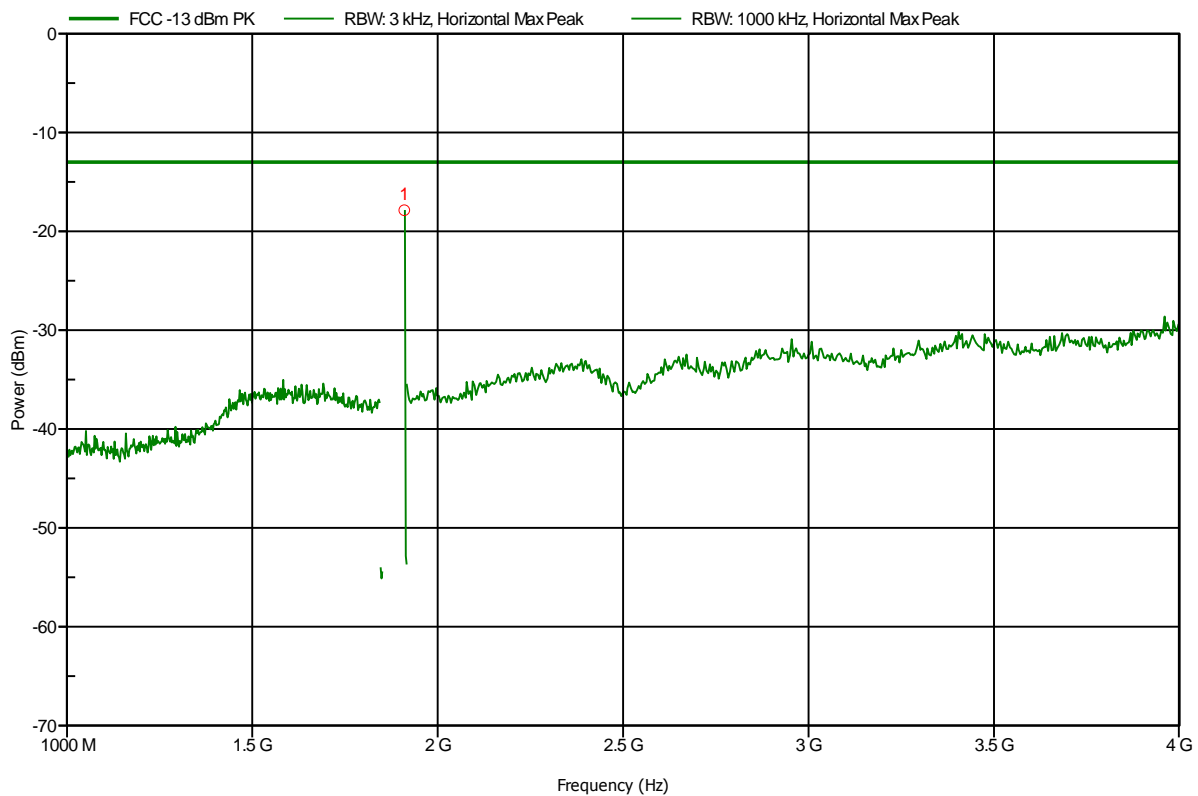
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.91 GHz	-18.4 dBm	-13 dBm	-5.41 dB	Pass

**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 025, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; GPRS 1900; CH:810; UL 1xSlot; Pmax; Ant: integral  
 Test Date: 2013-12-11  
 Note: EUT vertical

Index 393



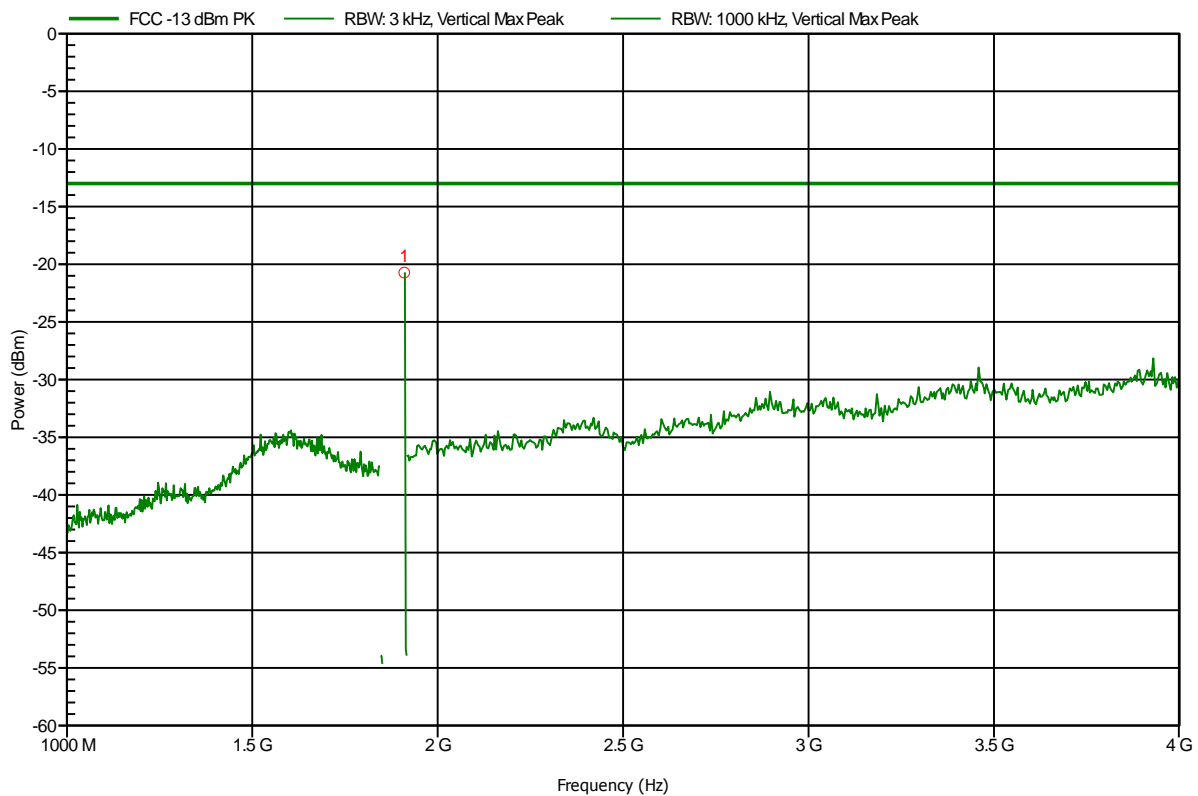
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.91 GHz	-17.9 dBm	-13 dBm	-4.86 dB	Pass

**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 025, Vertical  
 Measurement distance: 3 m  
 Mode: TX; EDGE 1900; CH:810; UL 1xSlot; Pmax; Ant: integral  
 Test Date: 2013-12-11  
 Note: EUT vertical

Index 390



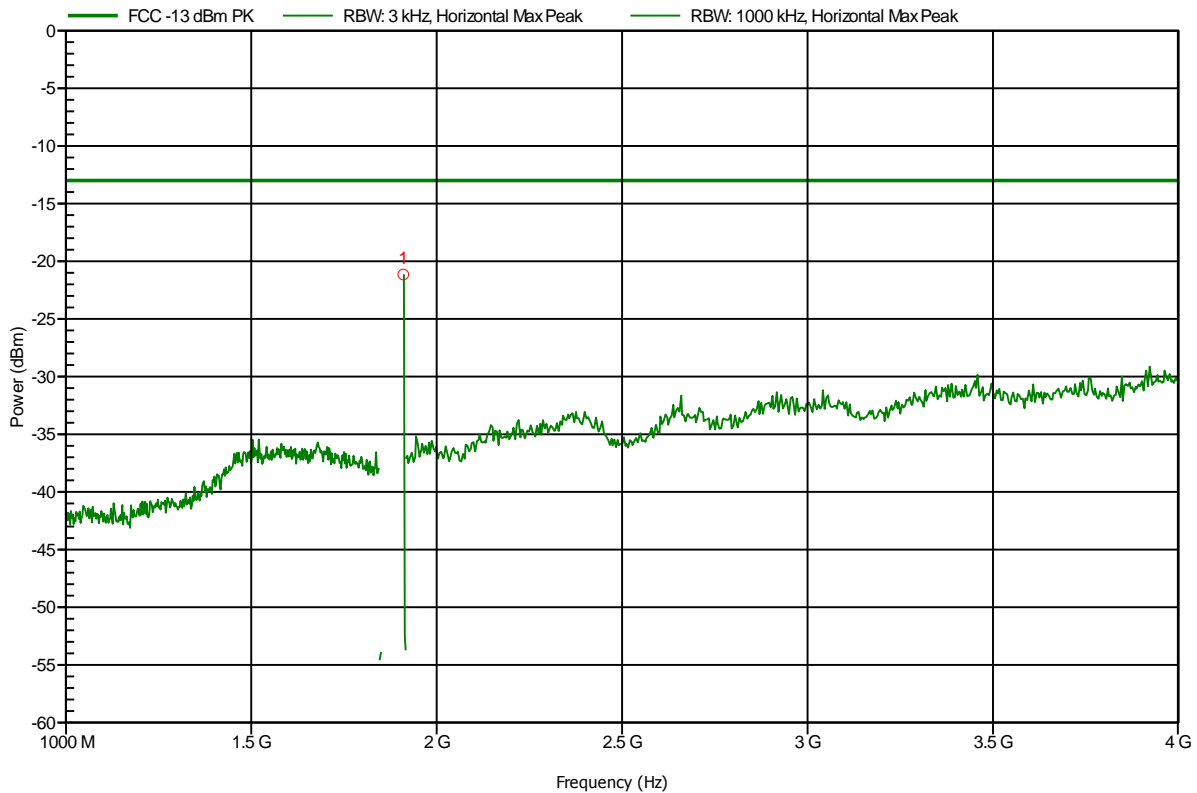
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.91 GHz	-20.7 dBm	-13 dBm	-7.72 dB	Pass

**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 025, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; EDGE 1900; CH:810; UL 1xSlot; Pmax; Ant: integral  
 Test Date: 2013-12-11  
 Note: EUT vertical

Index 394



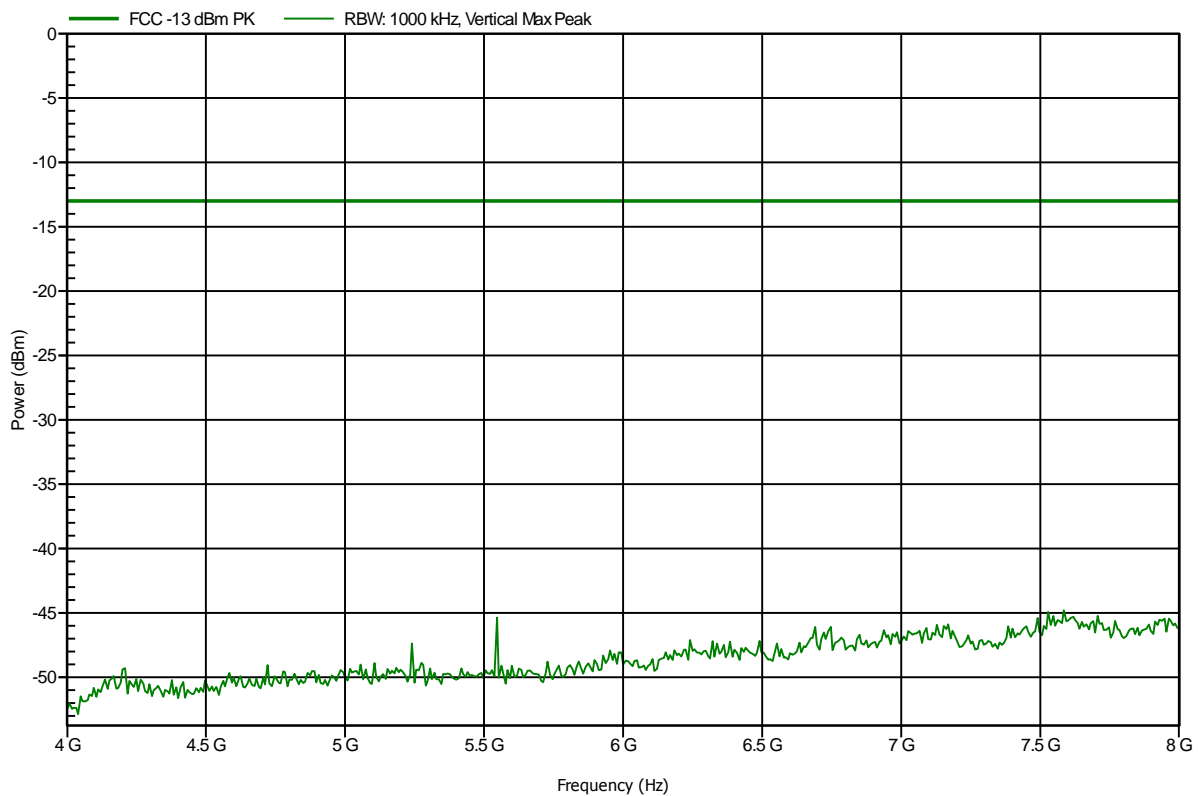
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.91 GHz	-21.1 dBm	-13 dBm	-8.15 dB	Pass

**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:512; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 412



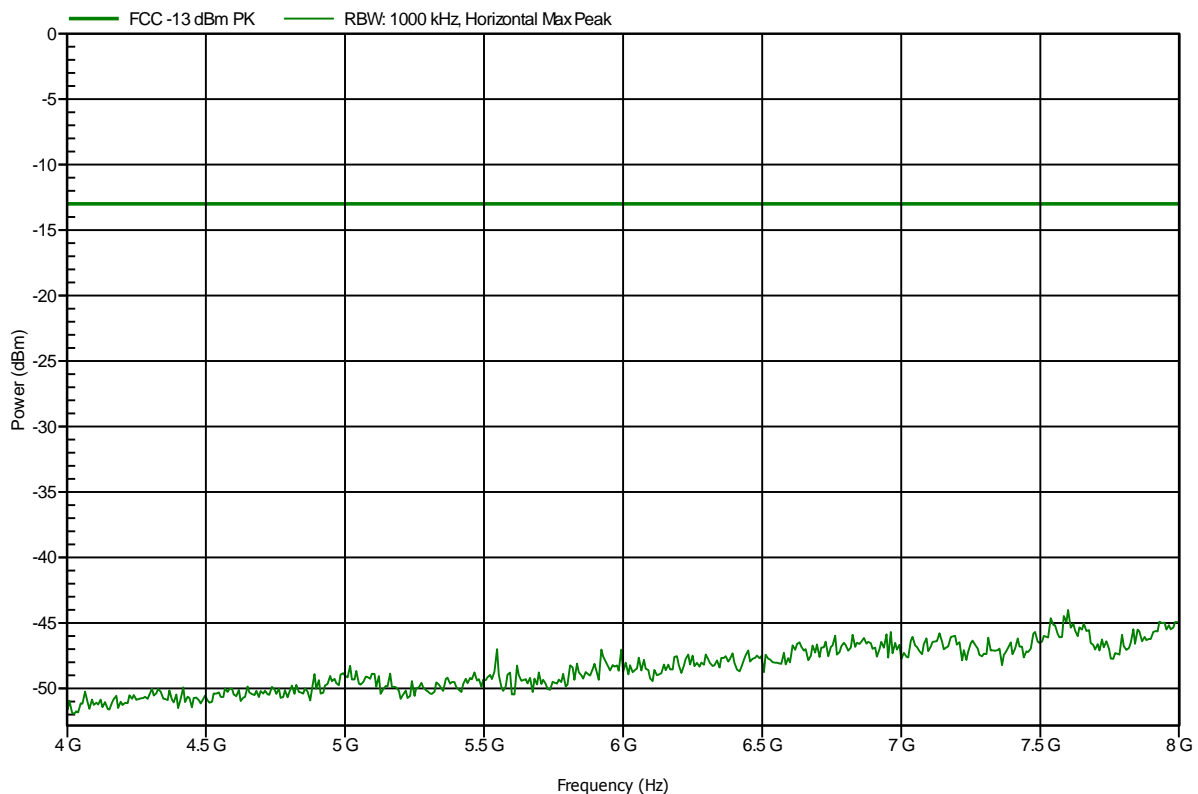


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:512; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 400

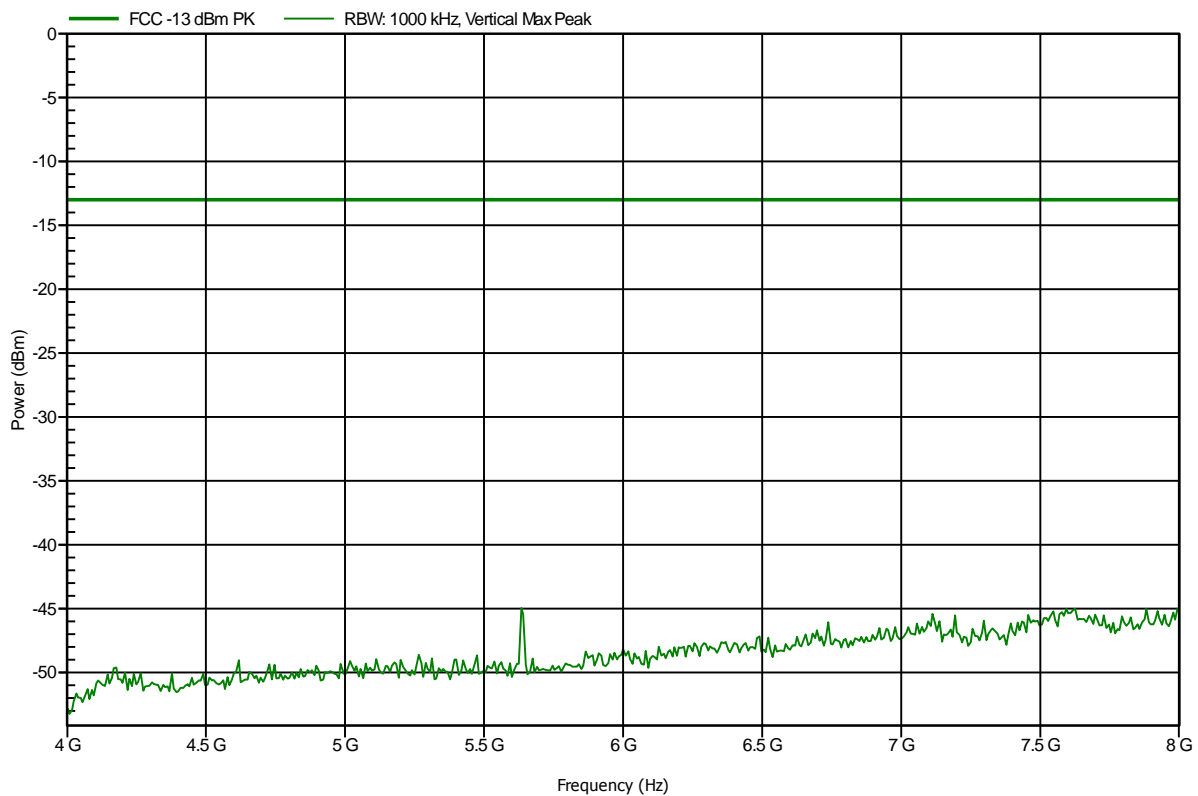


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:661; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 409

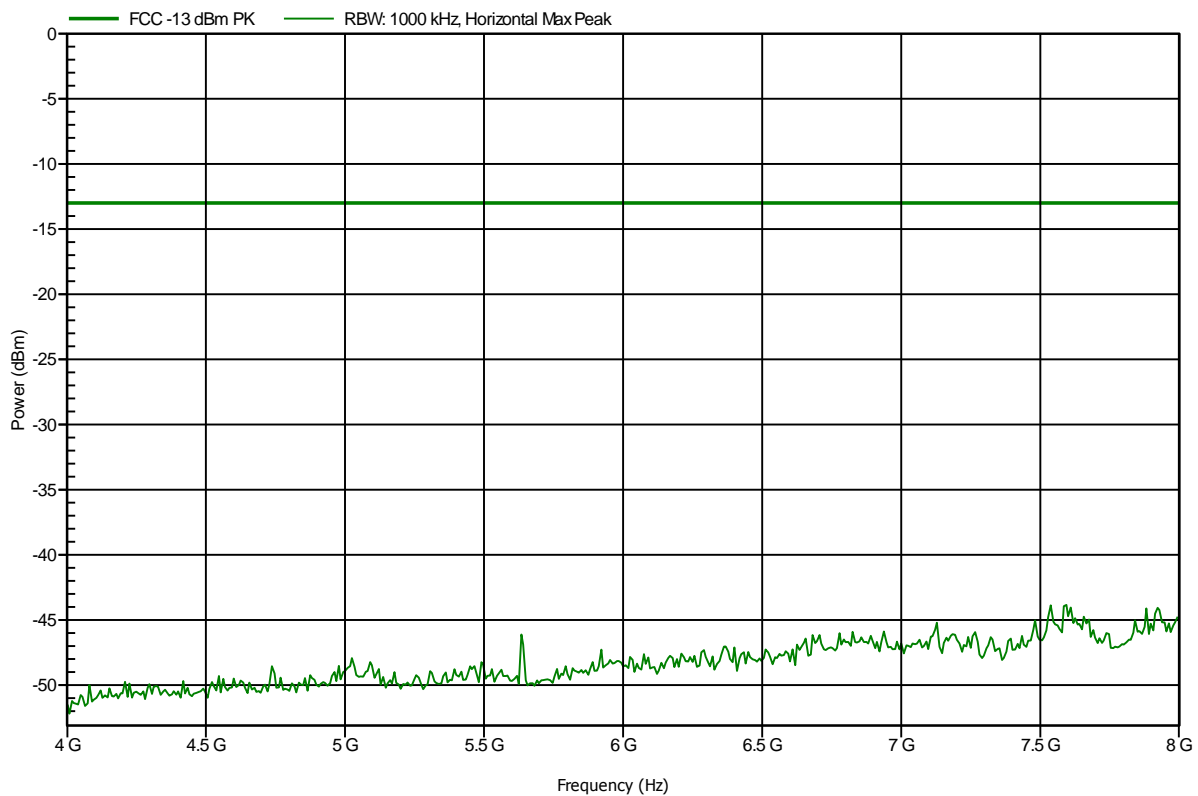


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:661; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 397

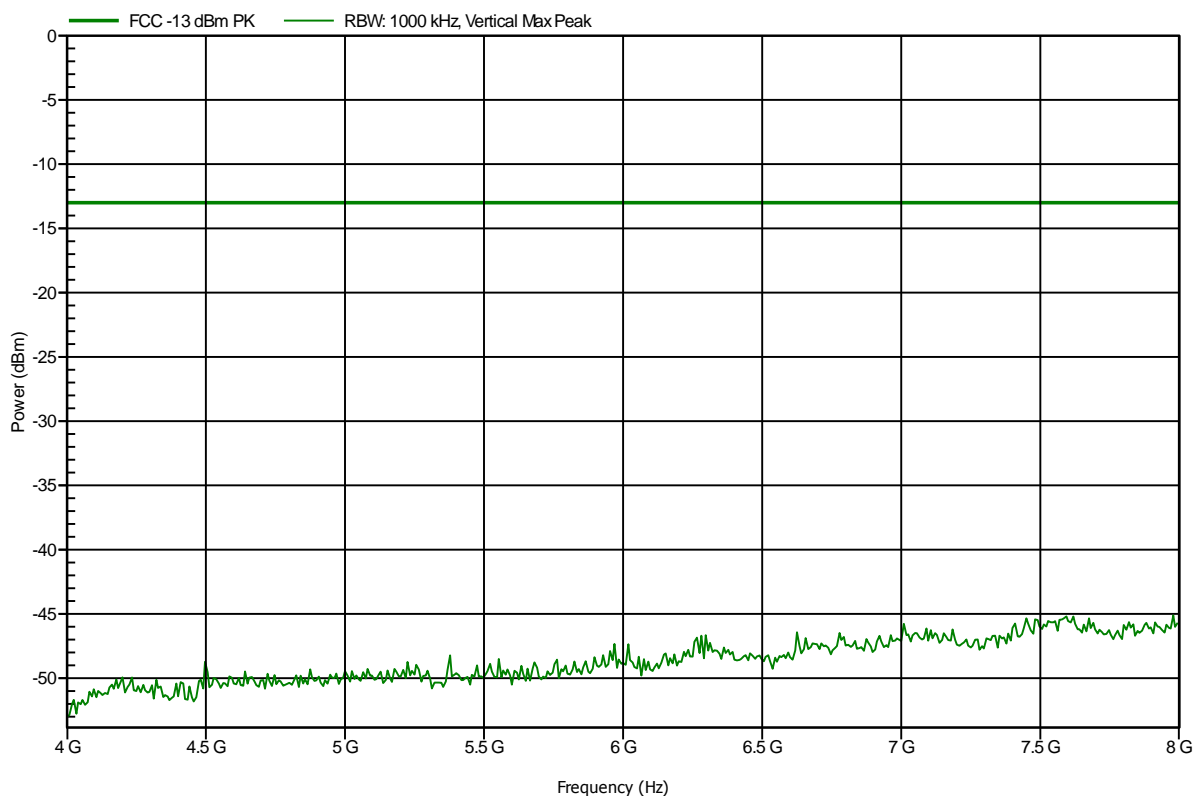


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:810; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 406

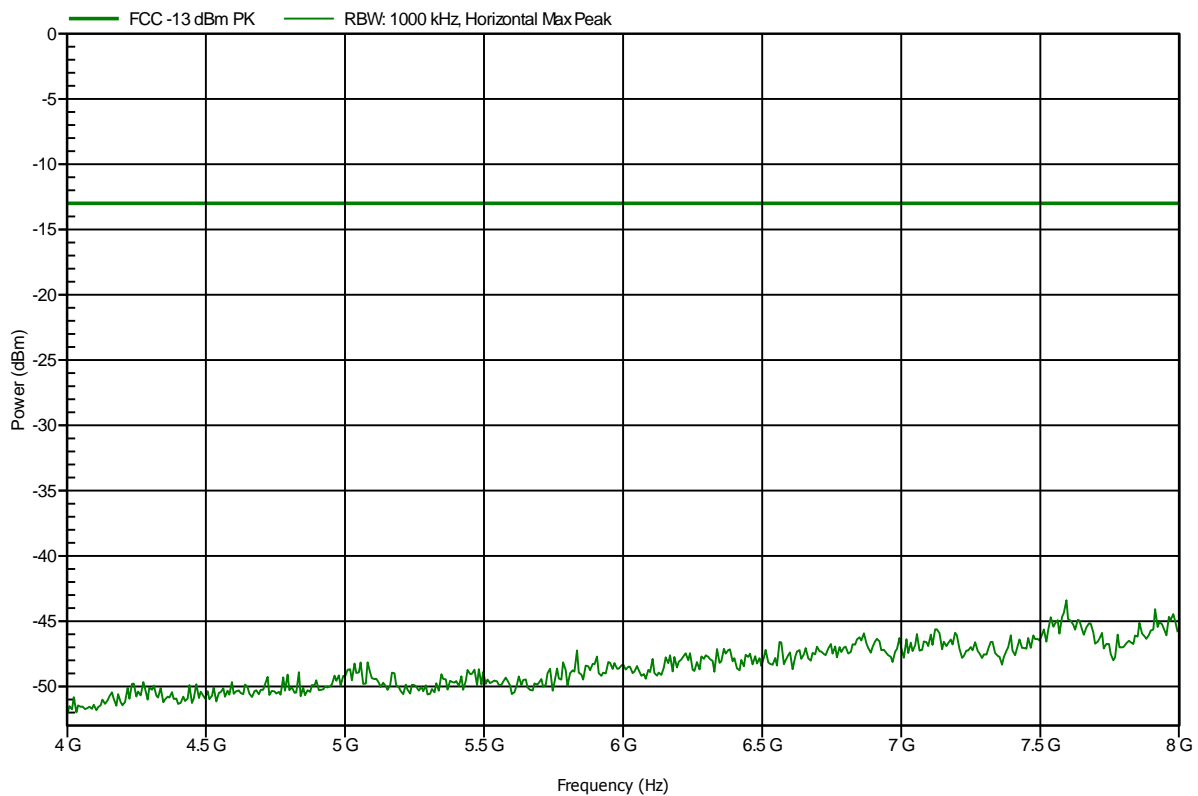


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:810; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 403

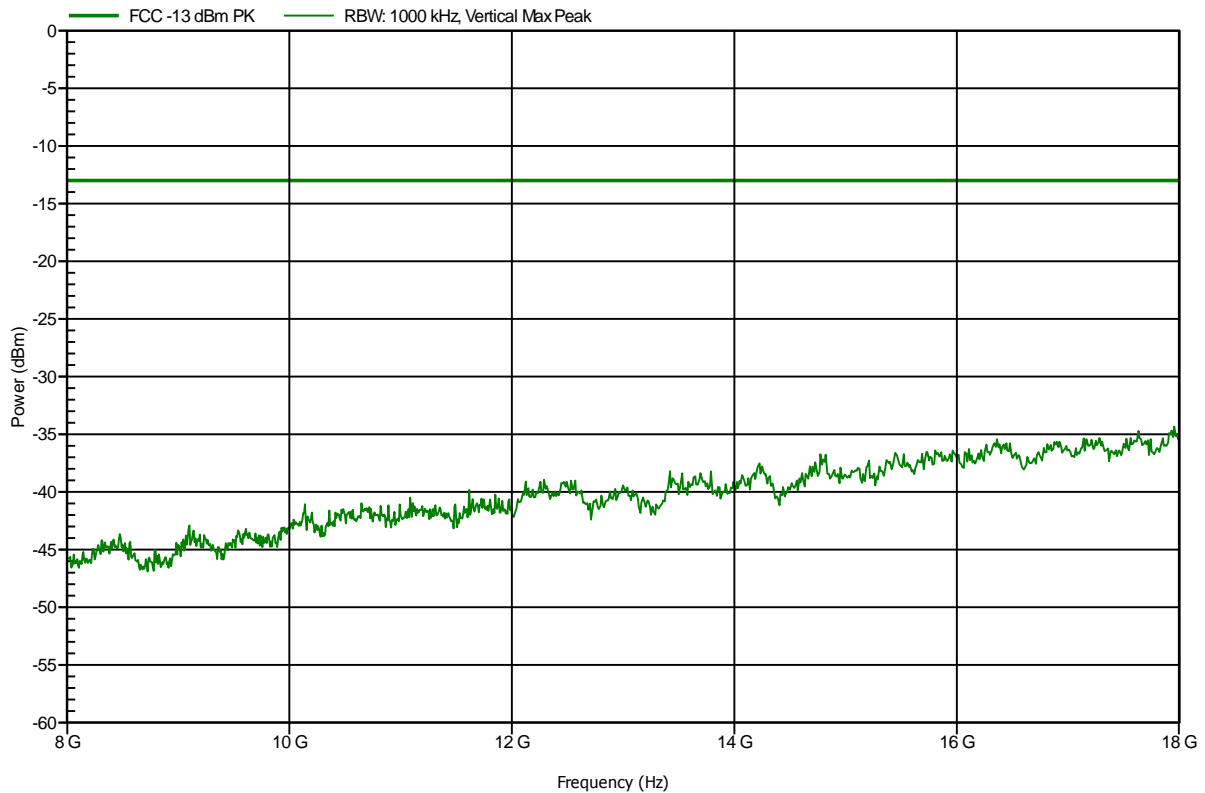


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:512; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 413

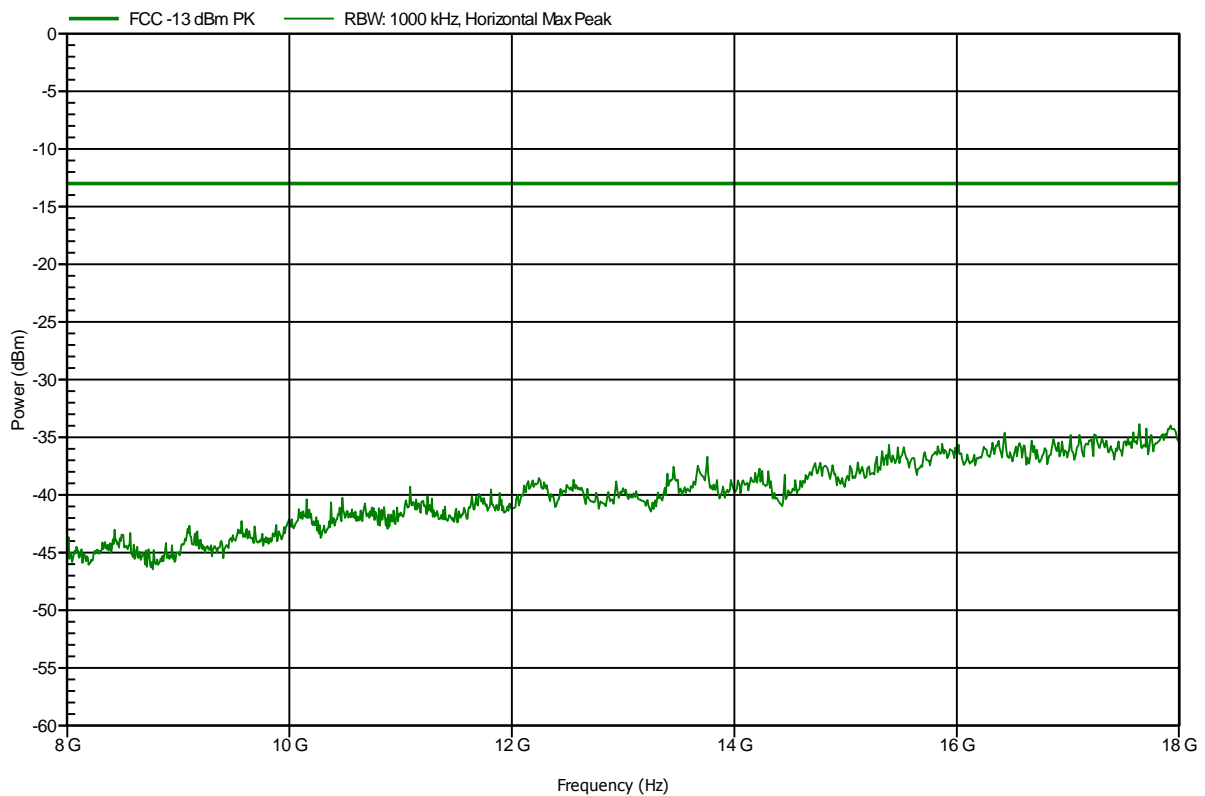


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:512; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 401

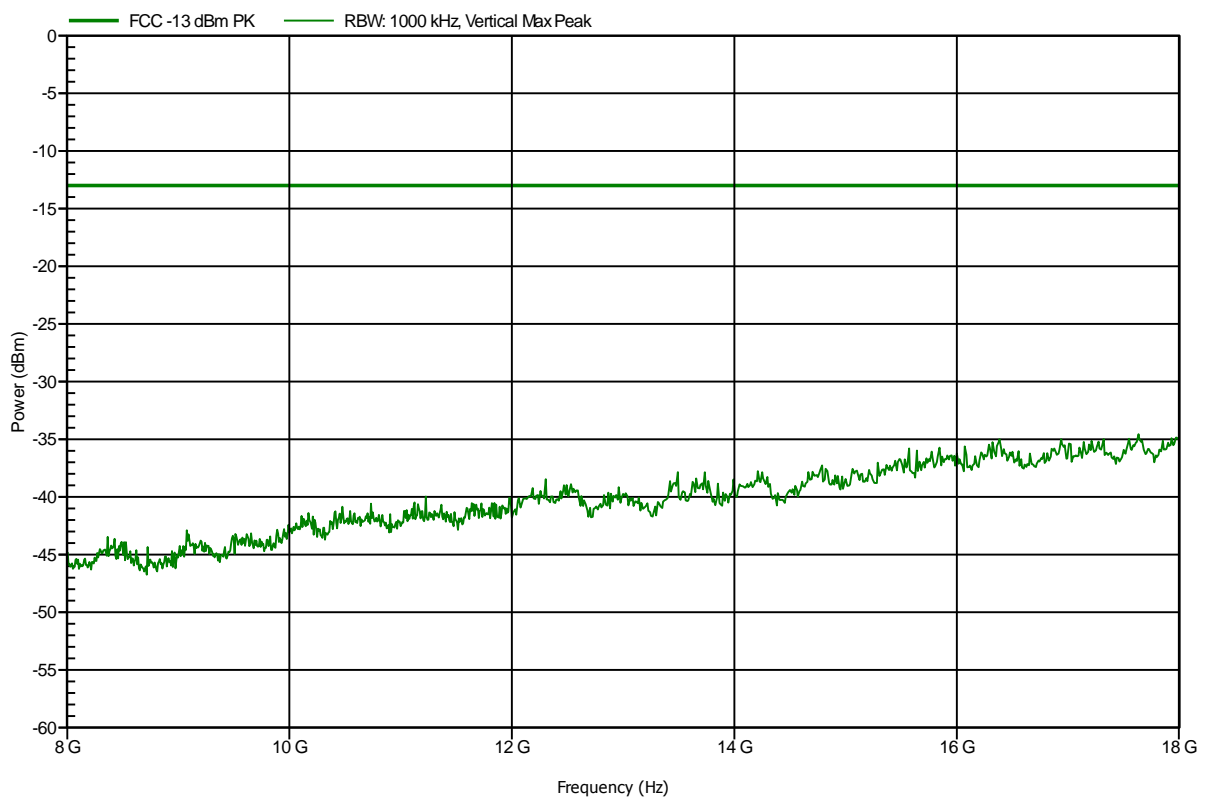


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:661; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 410



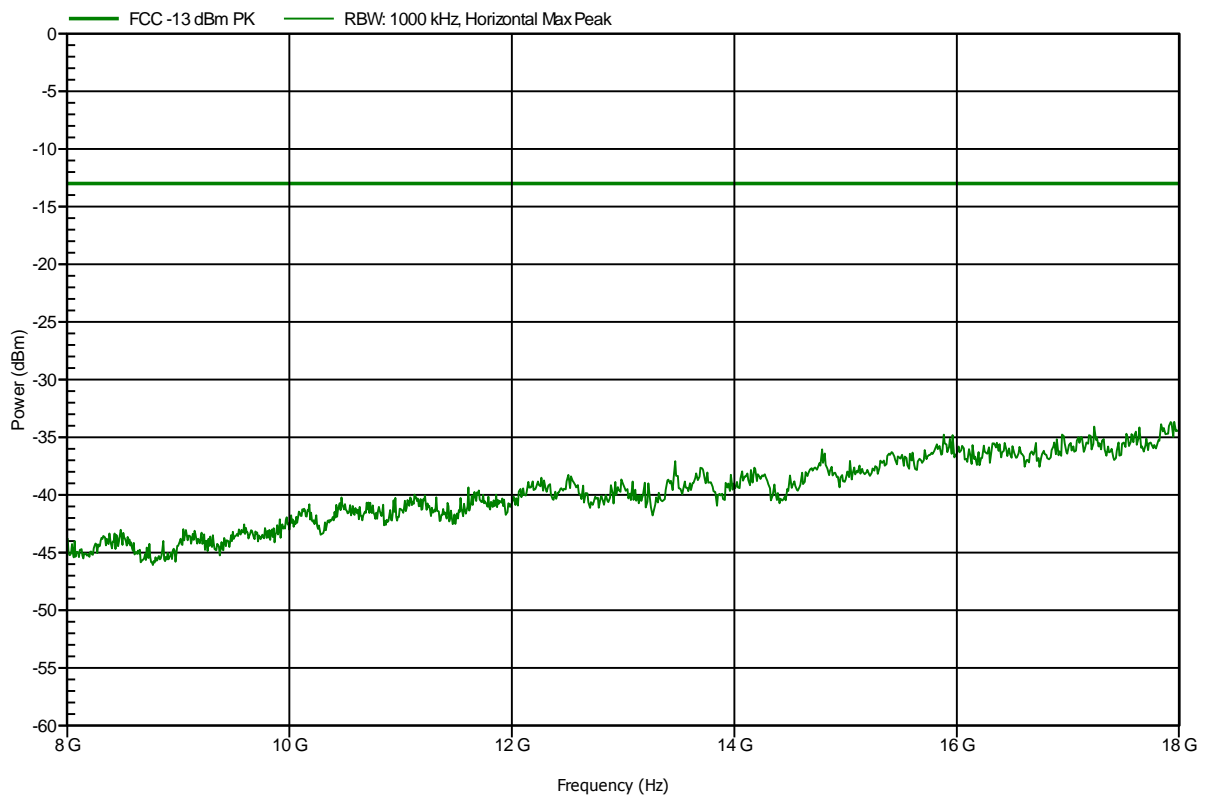


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:661; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 398

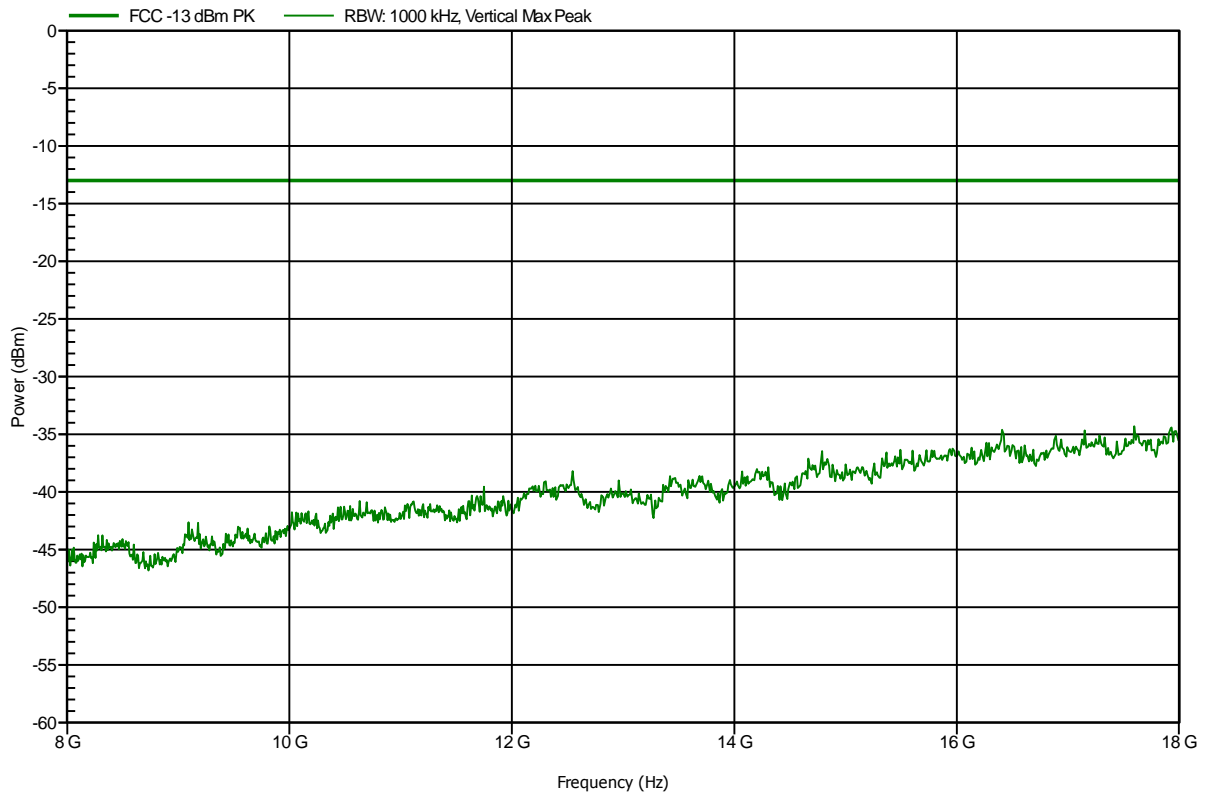


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:810; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 407

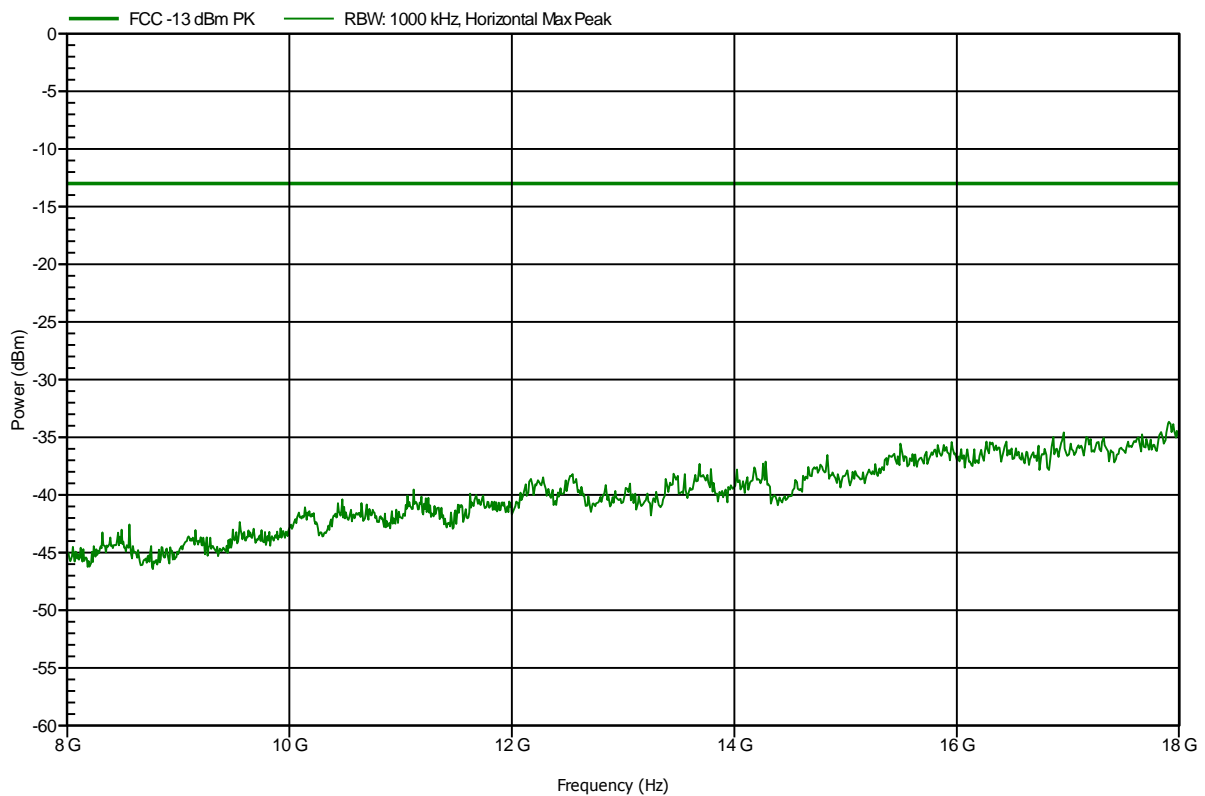


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:810; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 404

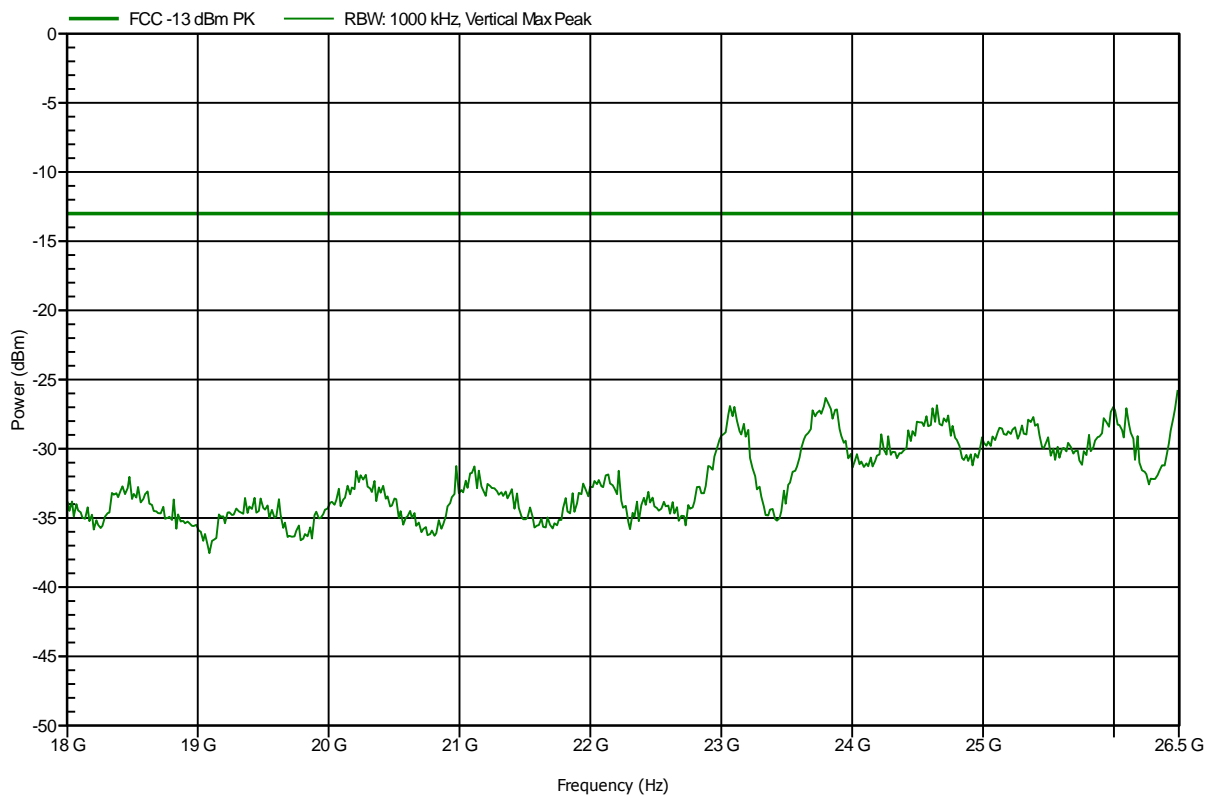


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:512; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 414

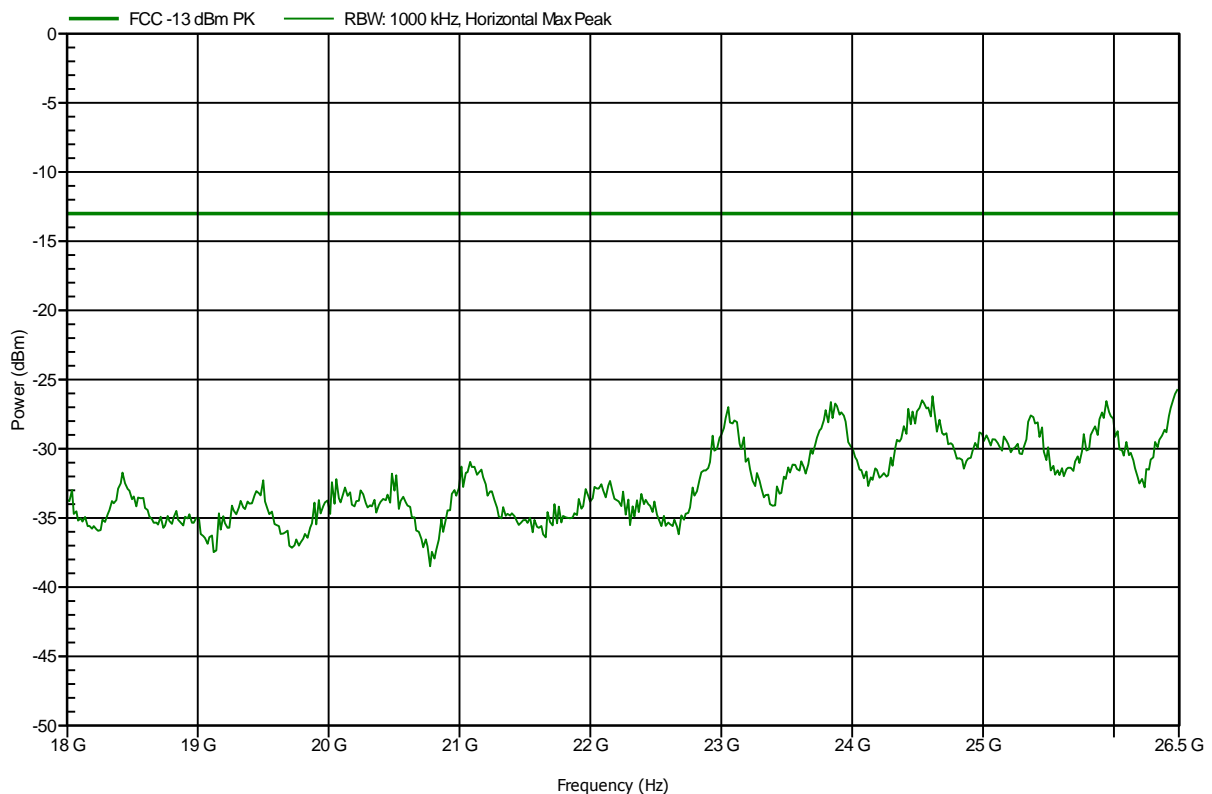


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:512; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 402

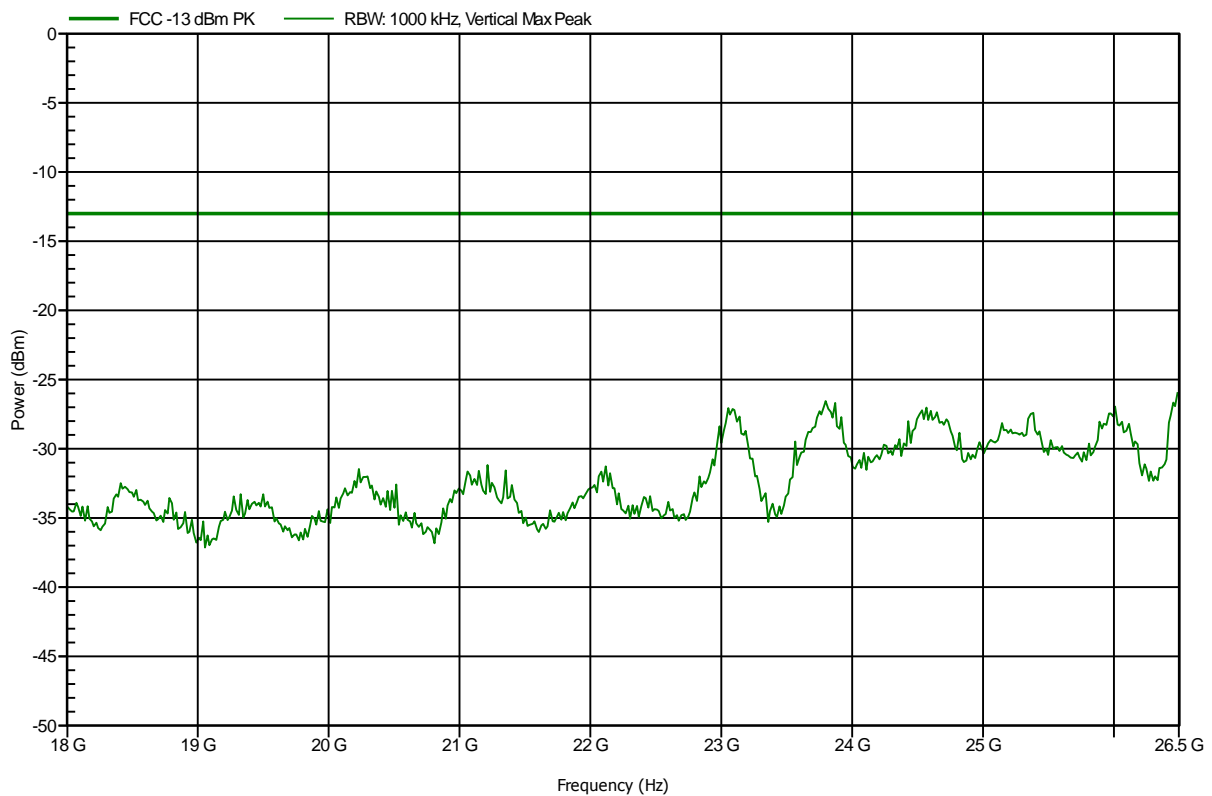


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:661; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 411

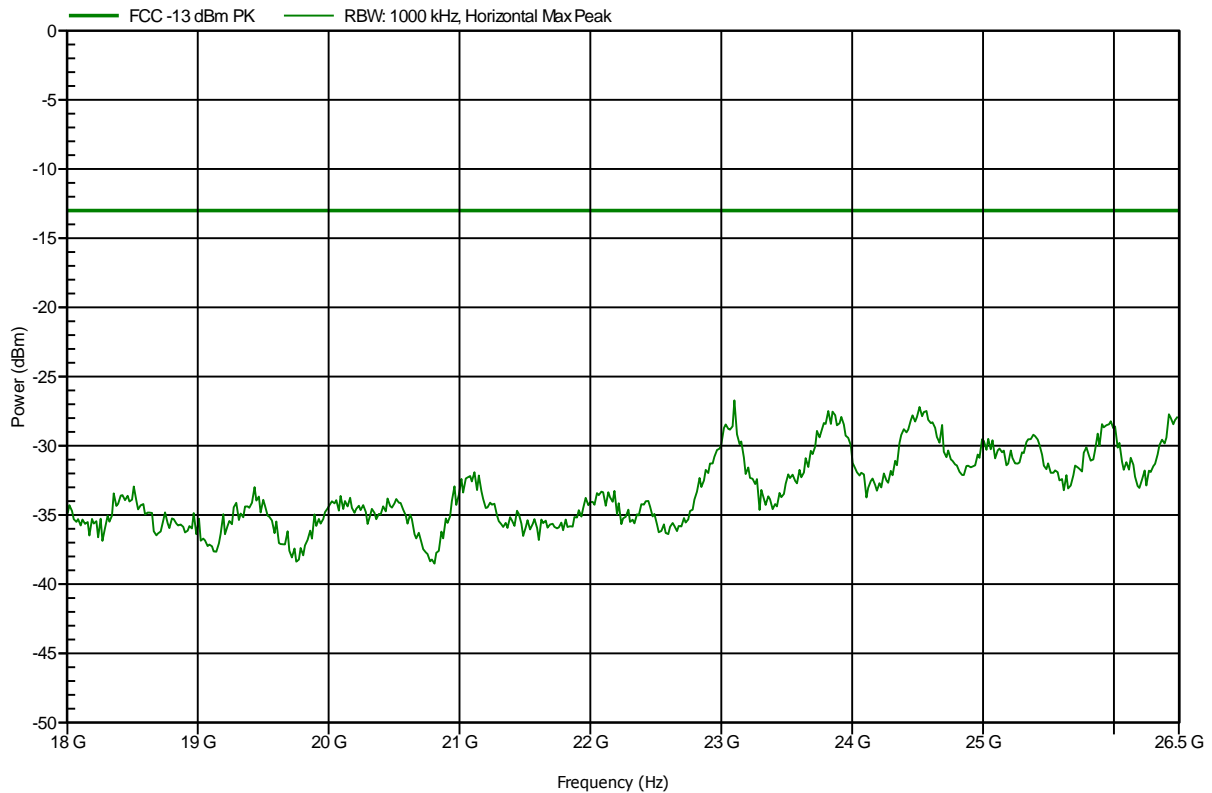


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:661; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 399

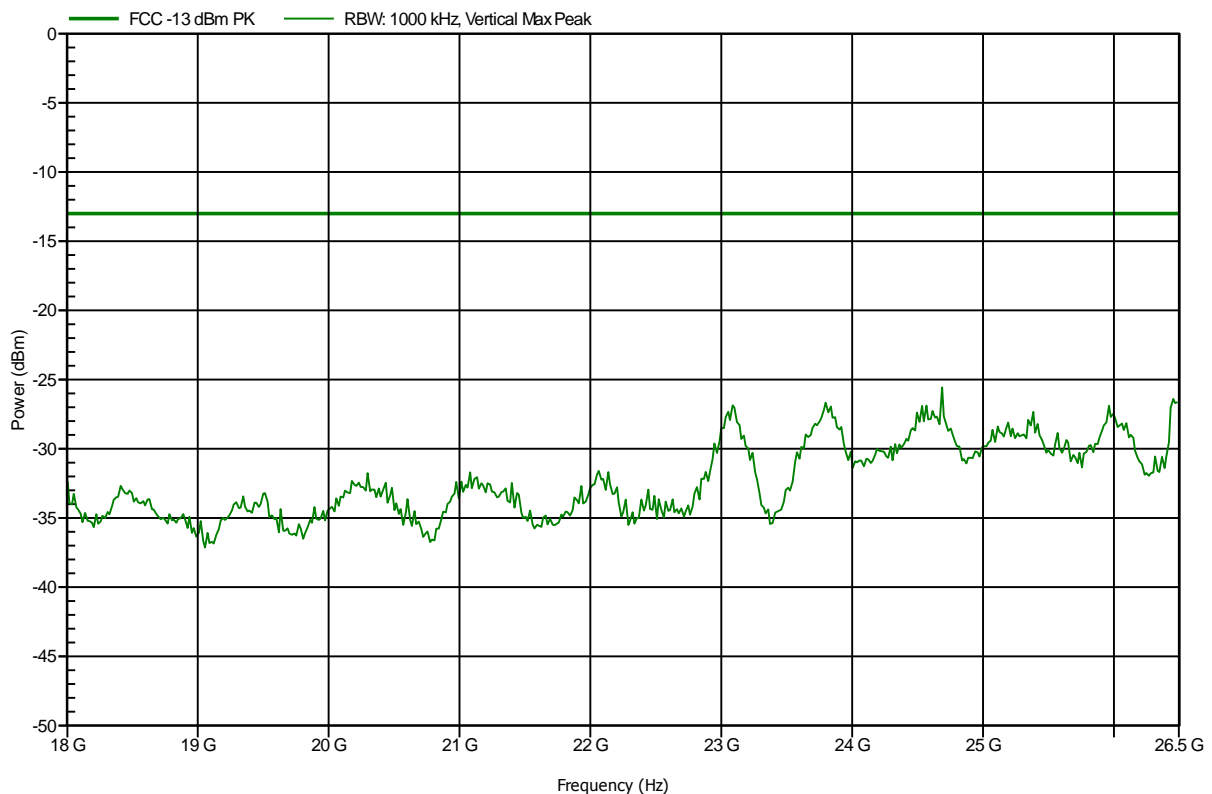


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:810; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 408



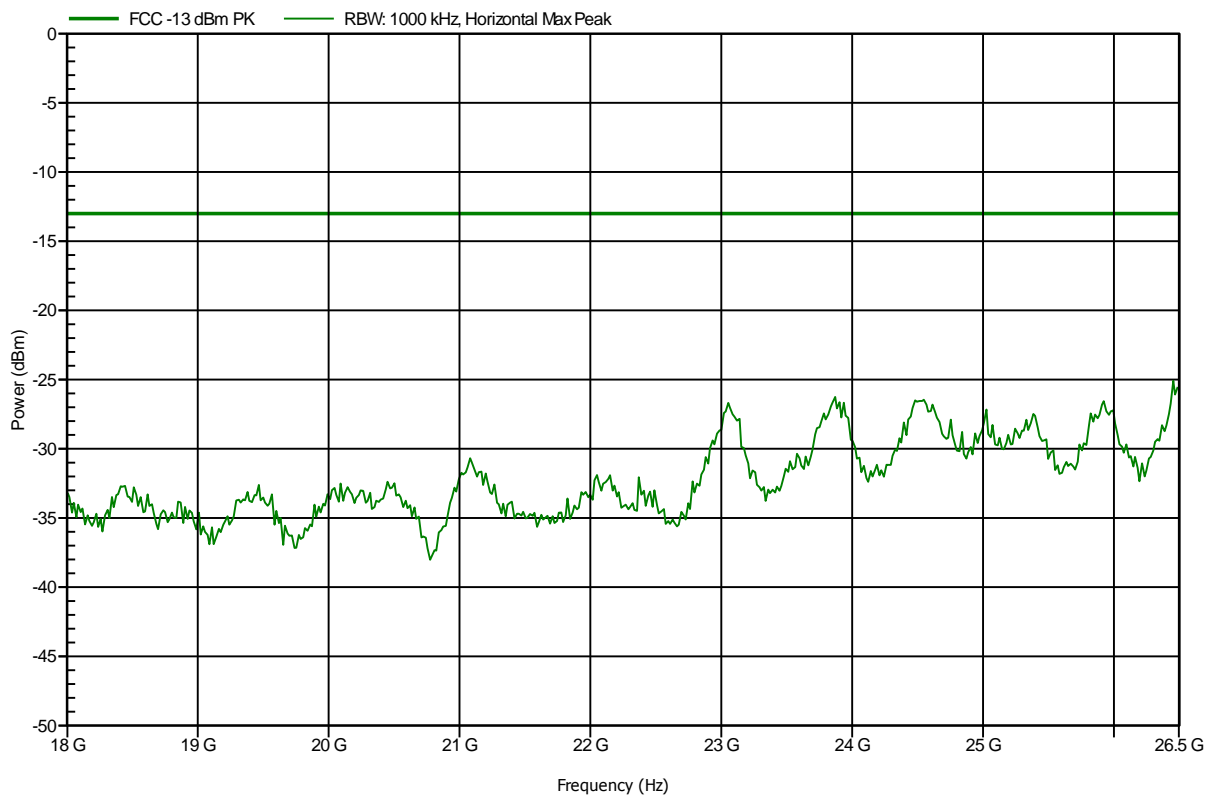


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900; CH:810; UL 1xSlot; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 405

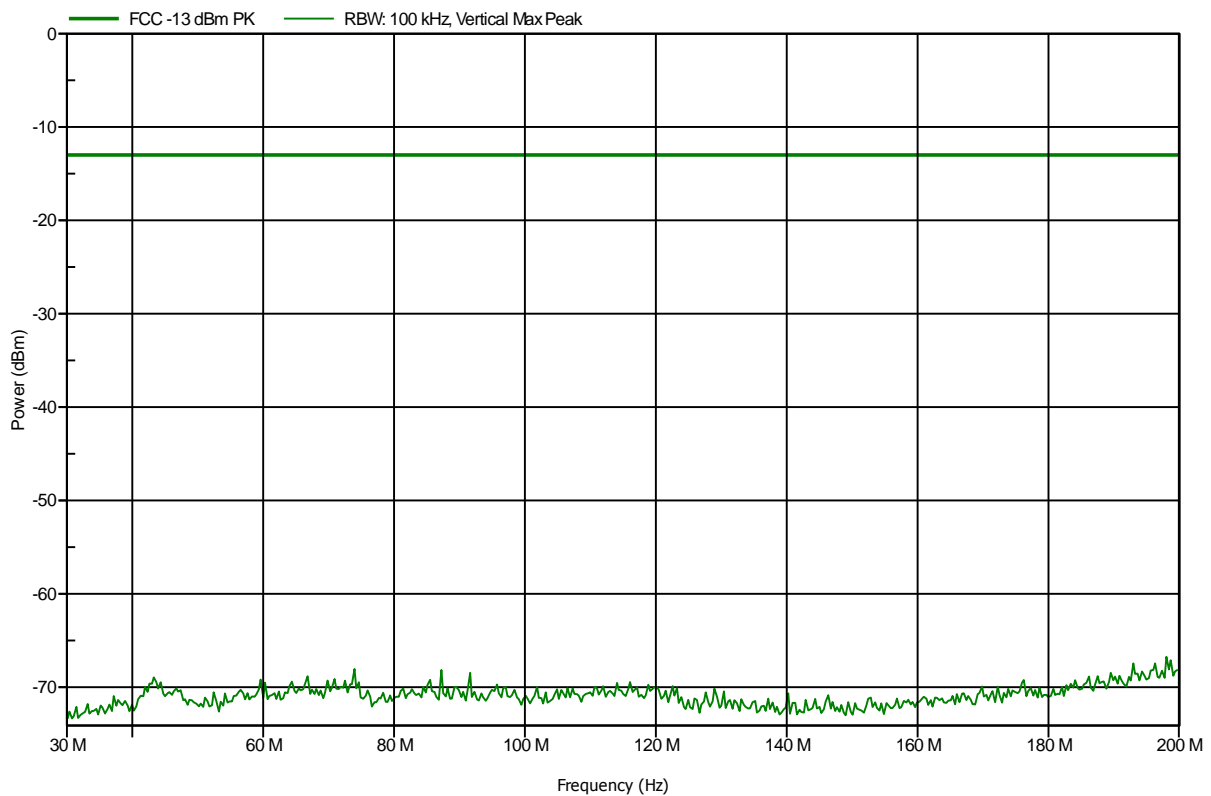


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4175; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical; worst case

Index 350

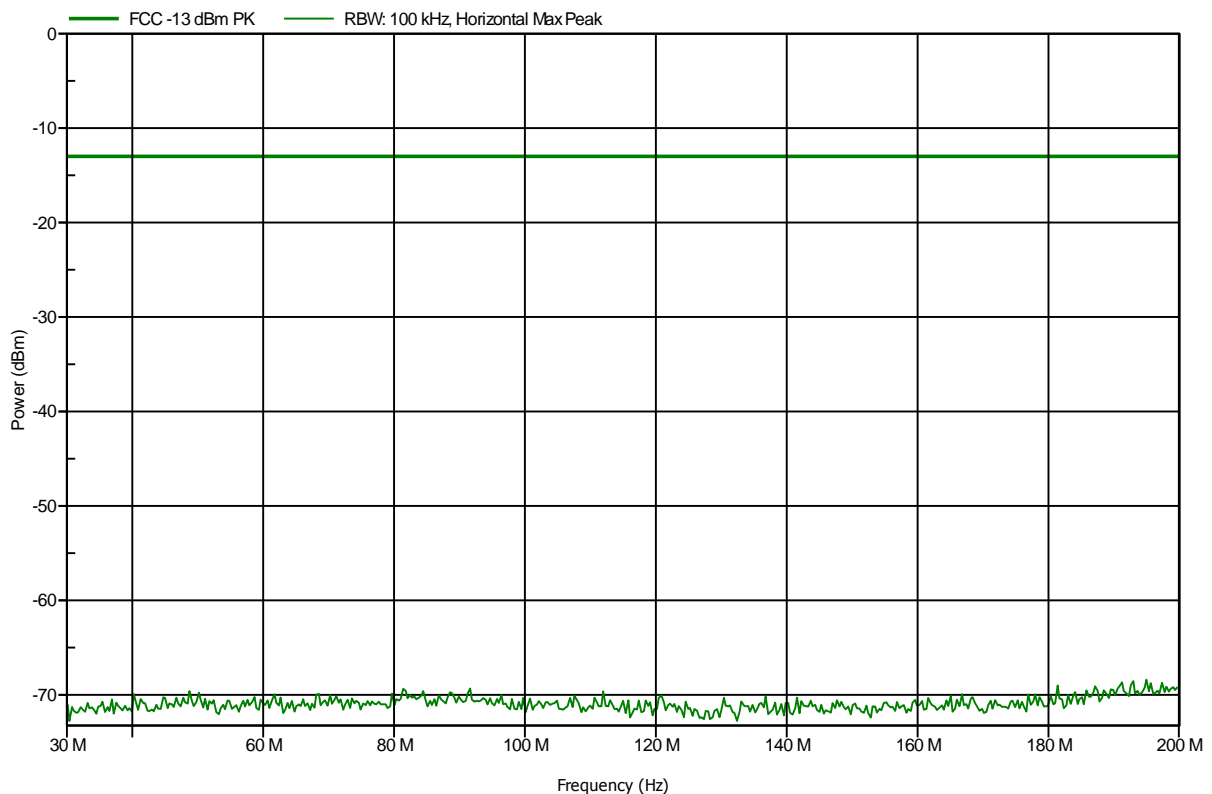


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4175; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical; worst case

Index 351

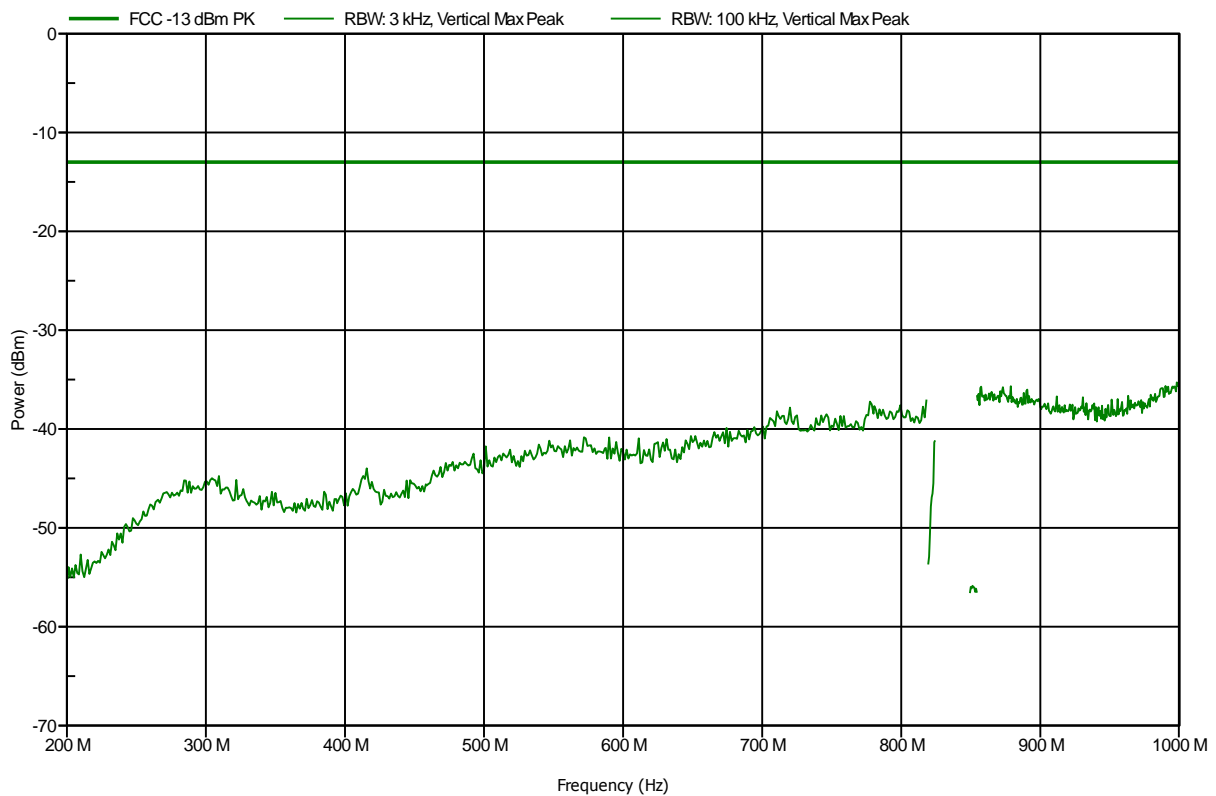


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4132; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 352

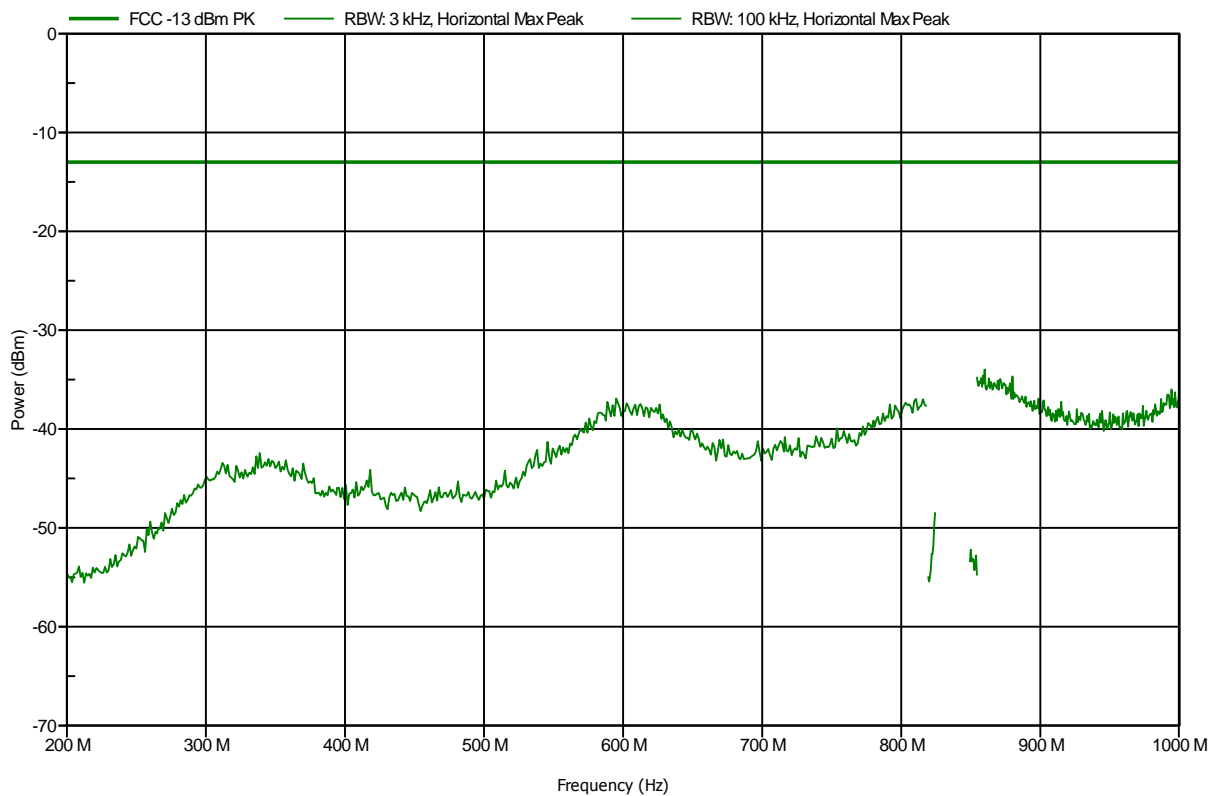


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4132; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 357

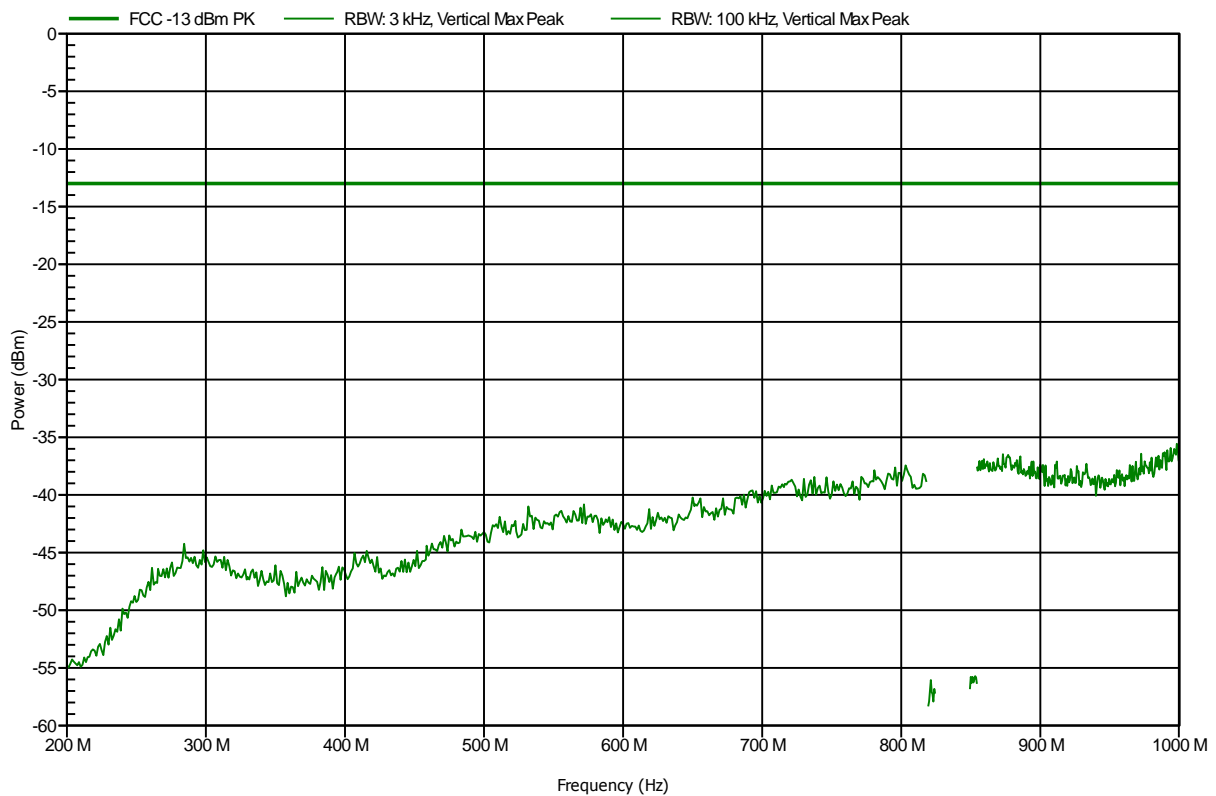


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4175; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 353

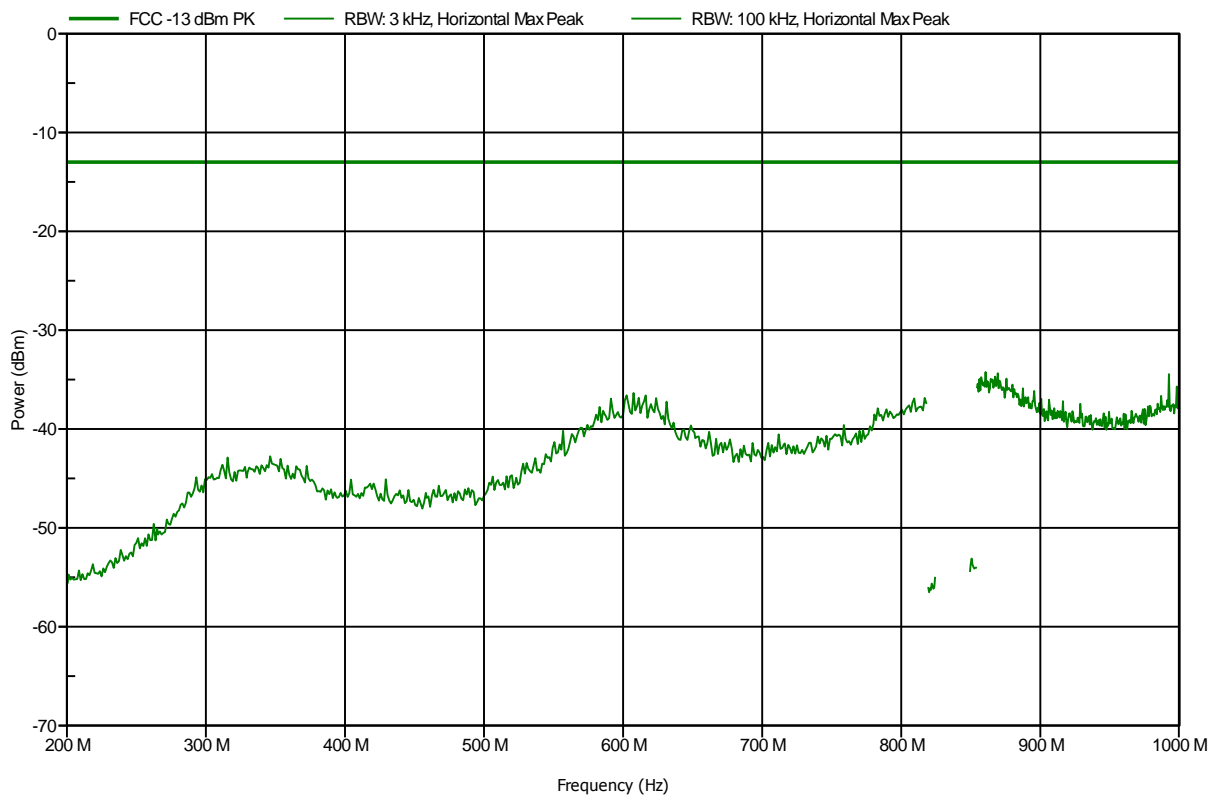


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4175; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 356

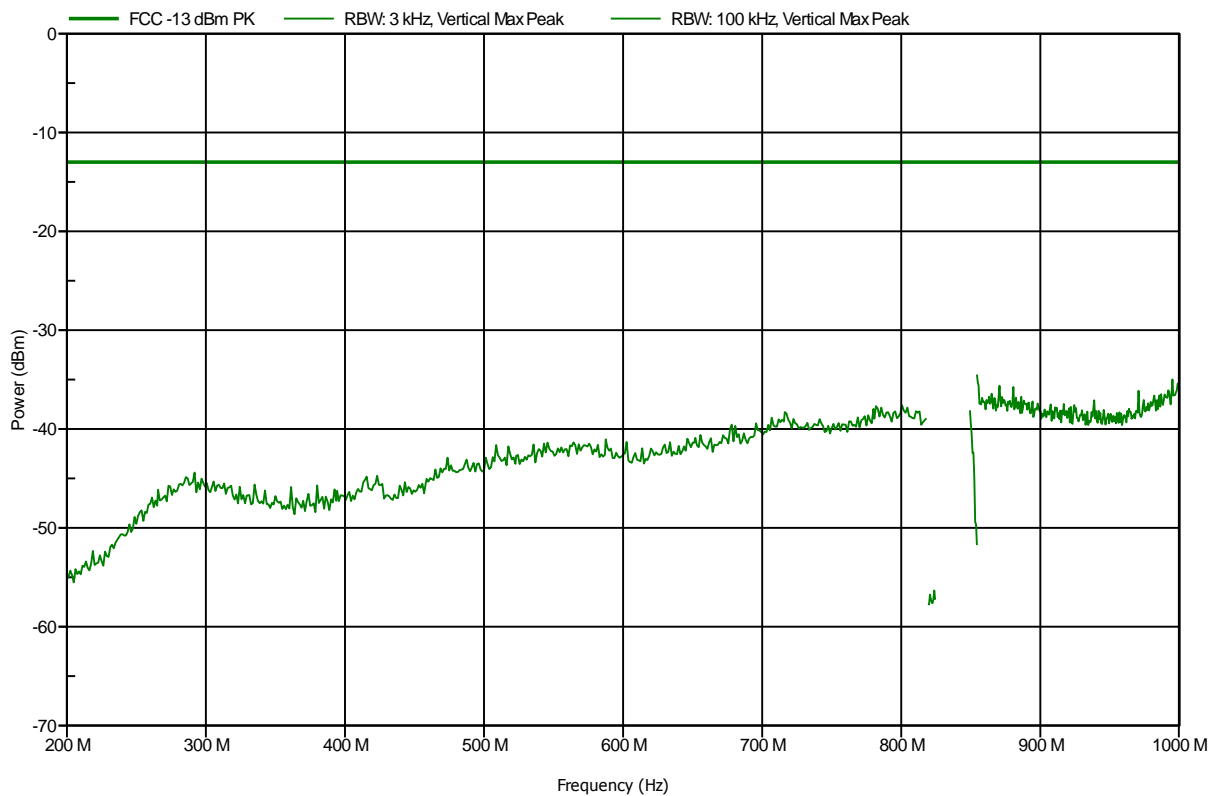


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4233; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 354



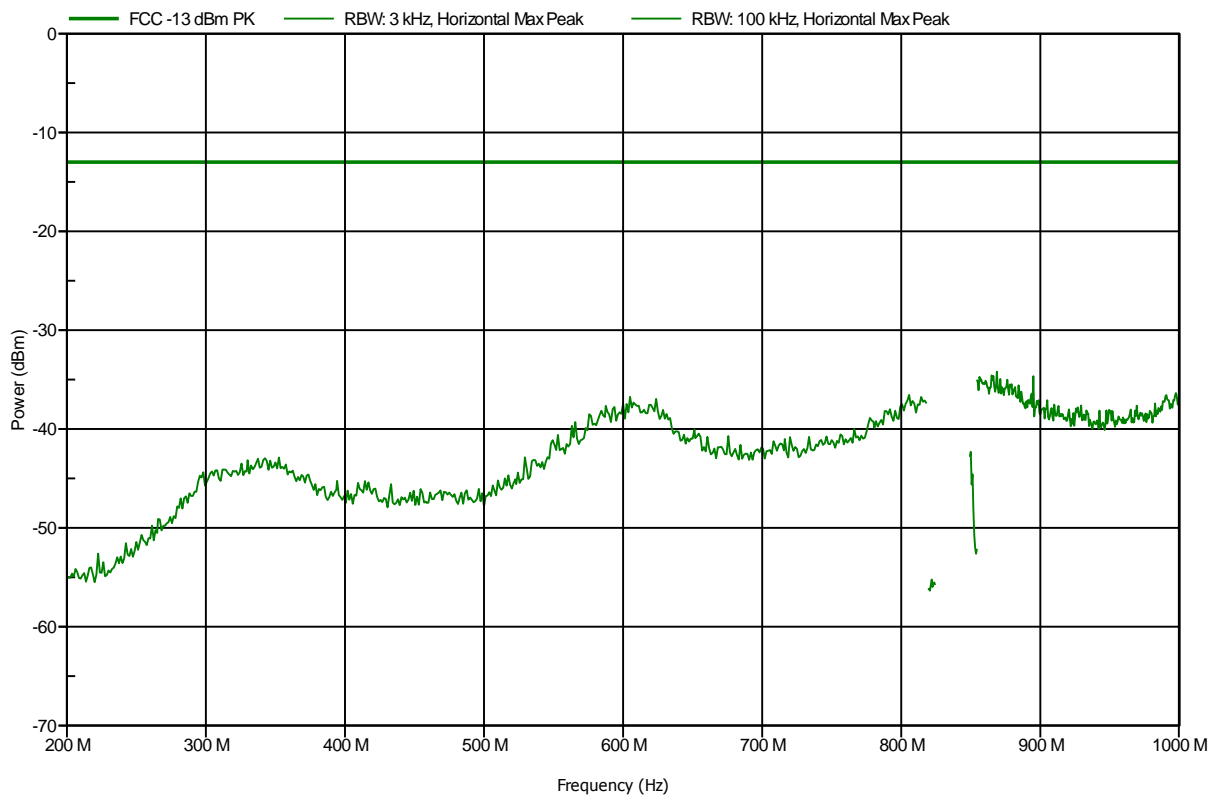


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4233; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 355

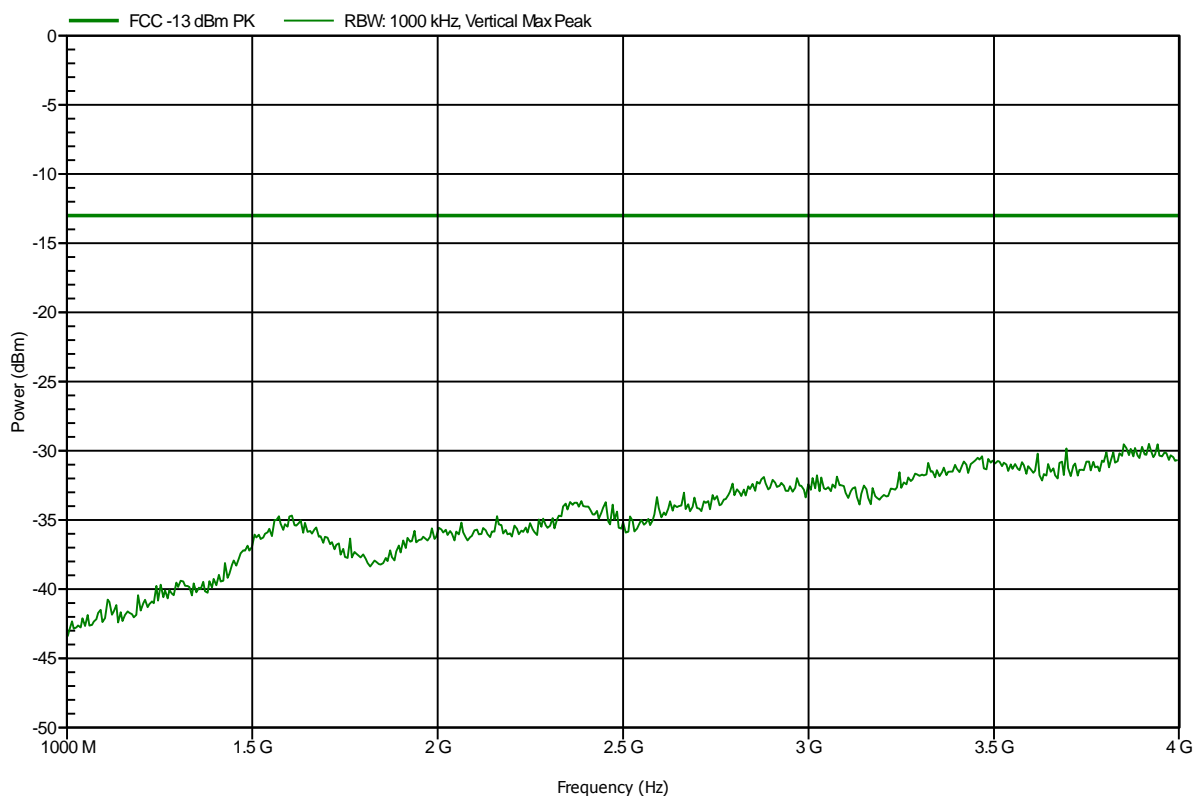


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4132; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 341

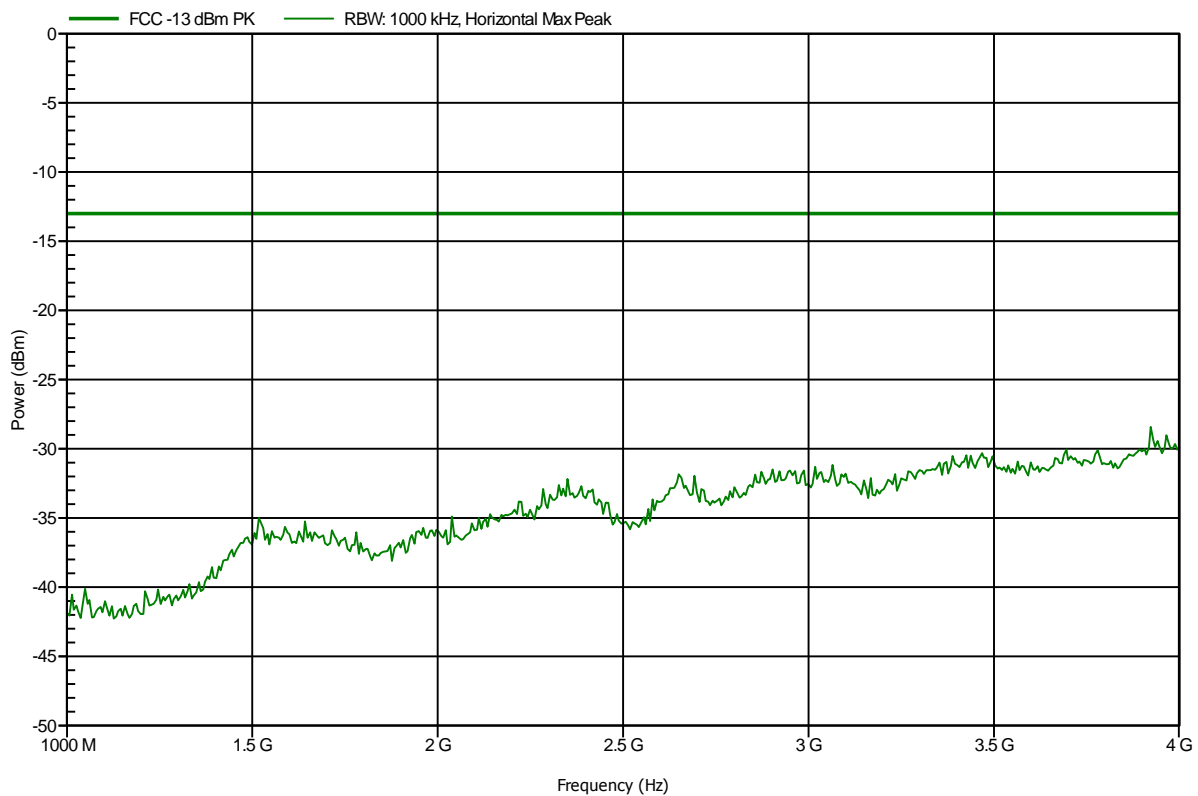


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4132; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 338

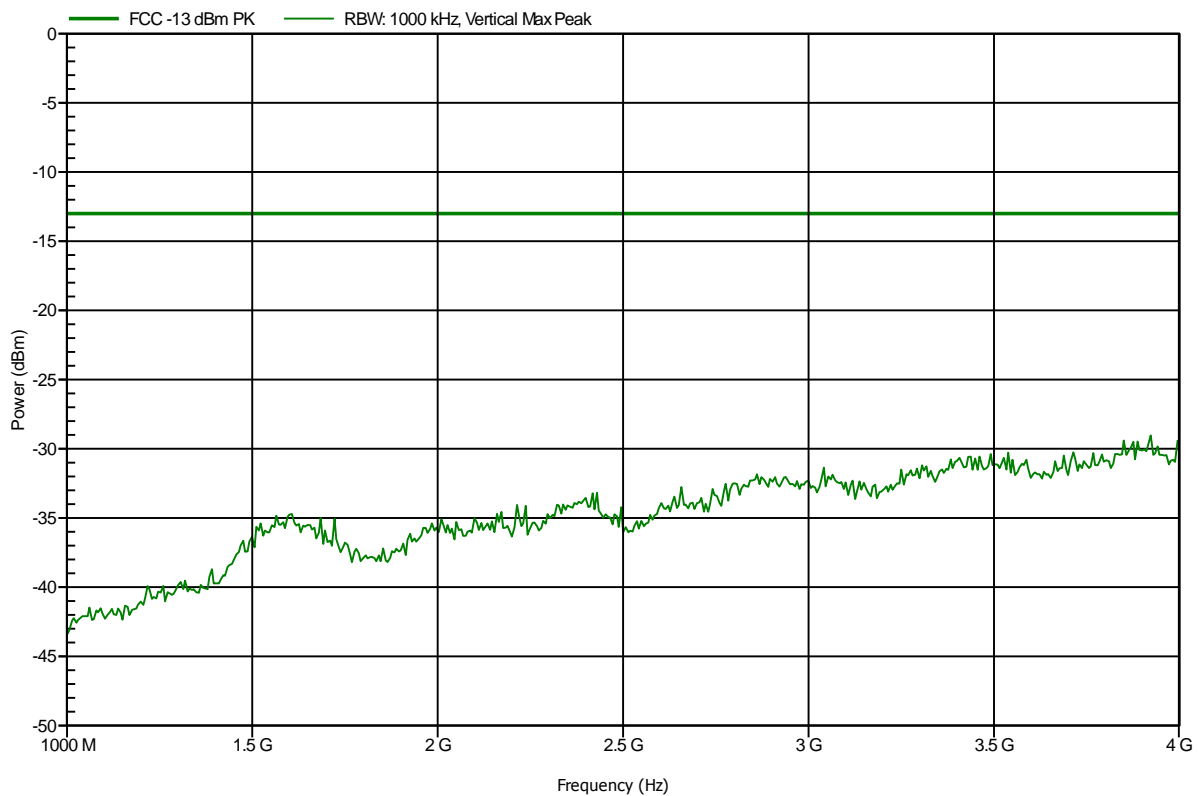


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4175; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 332

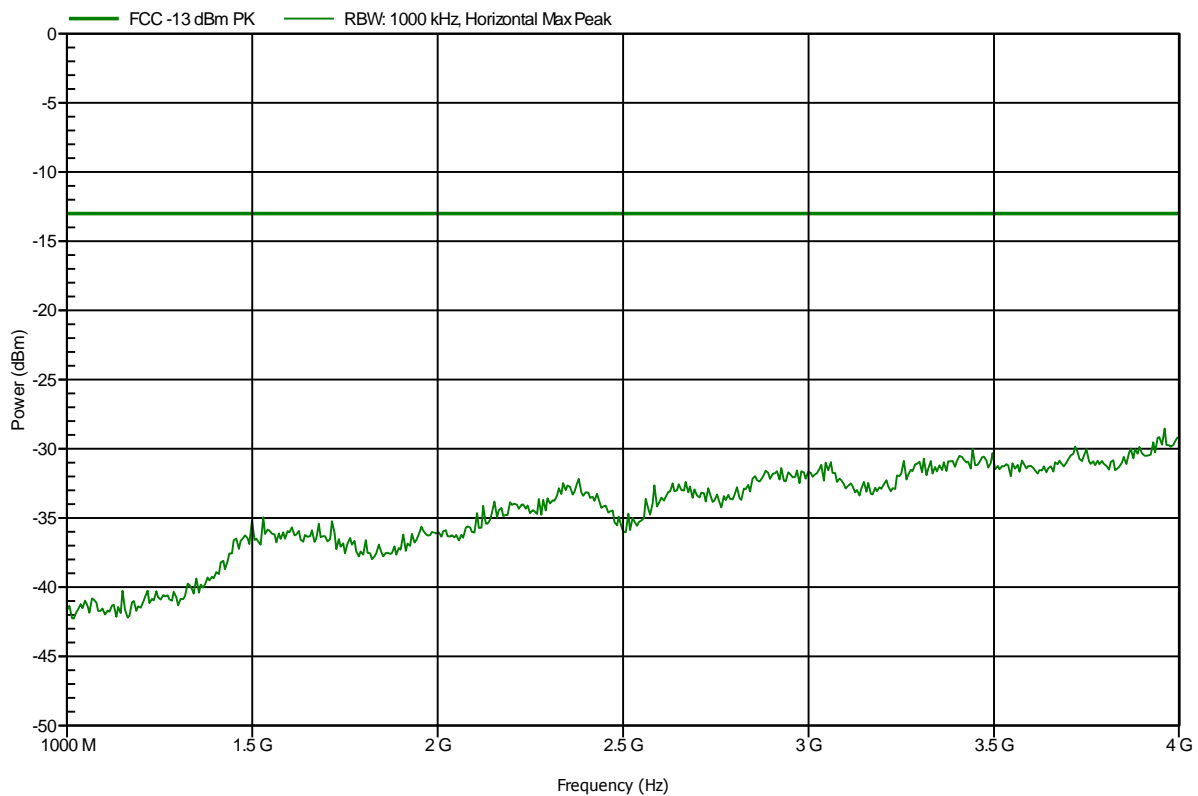


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4175; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 335

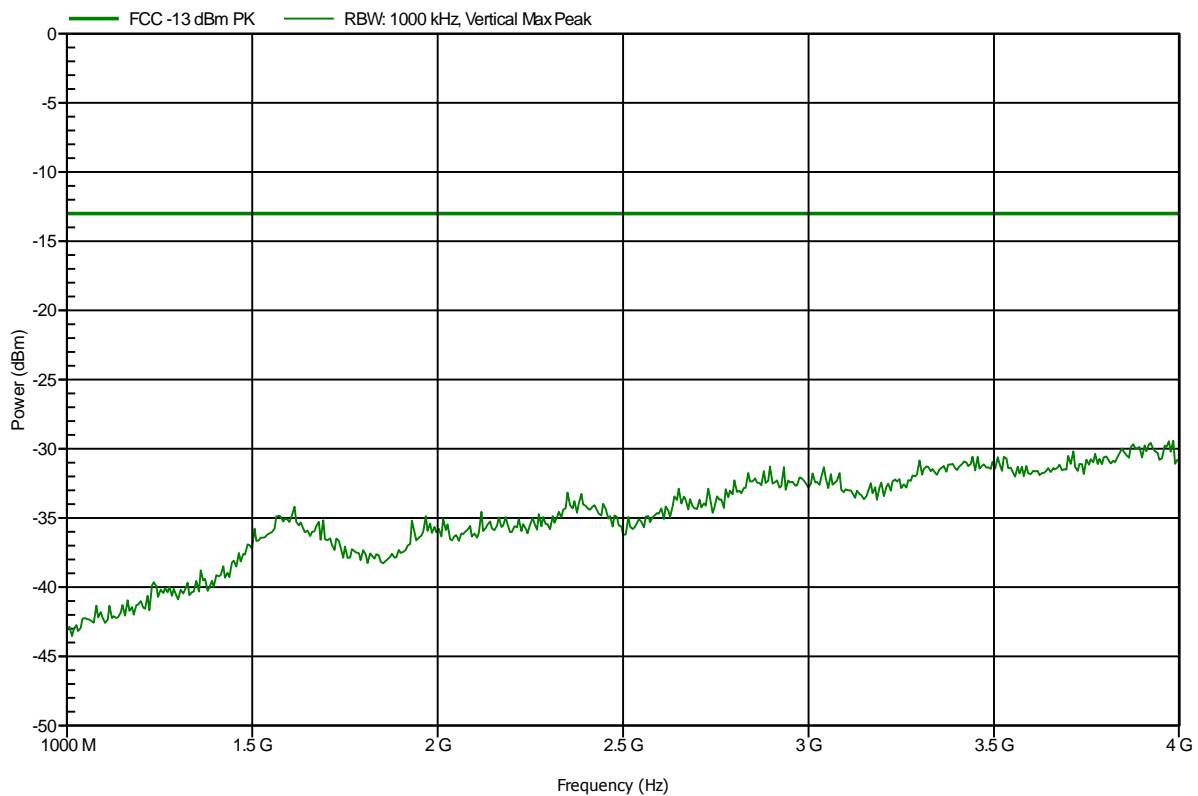


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4233; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 344

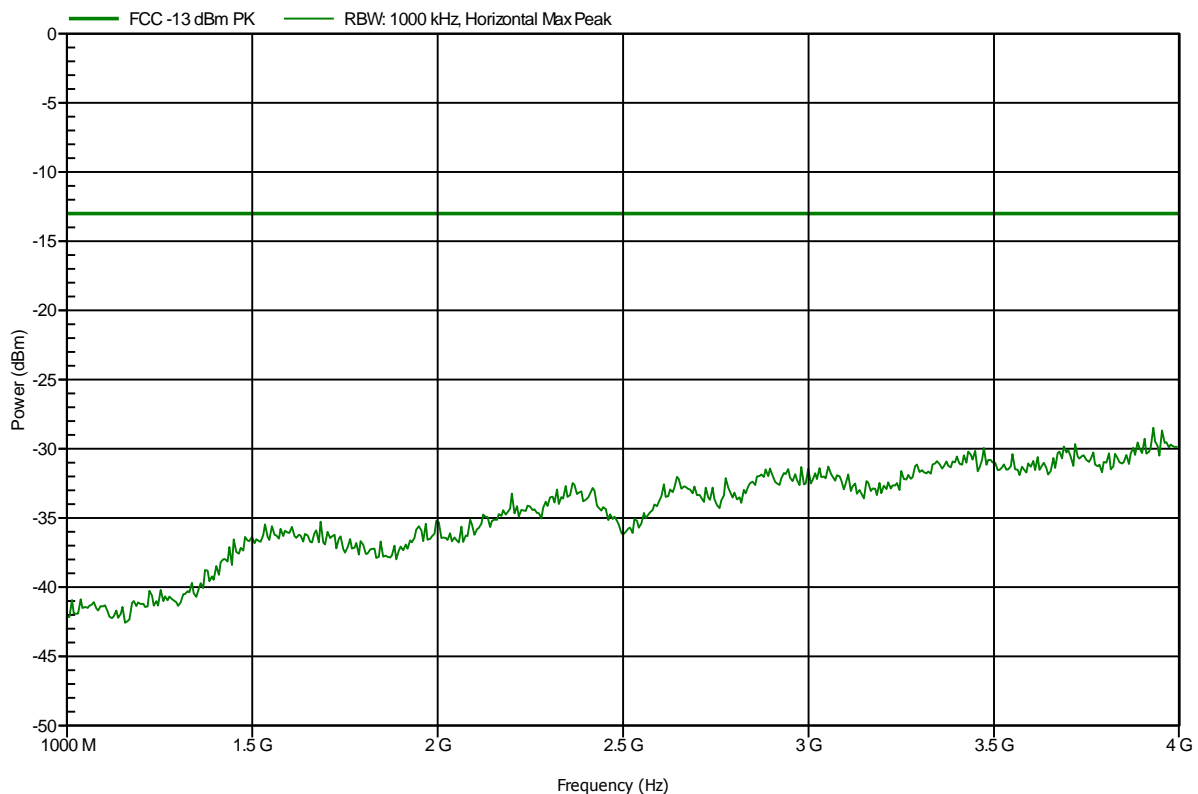


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4233; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 347

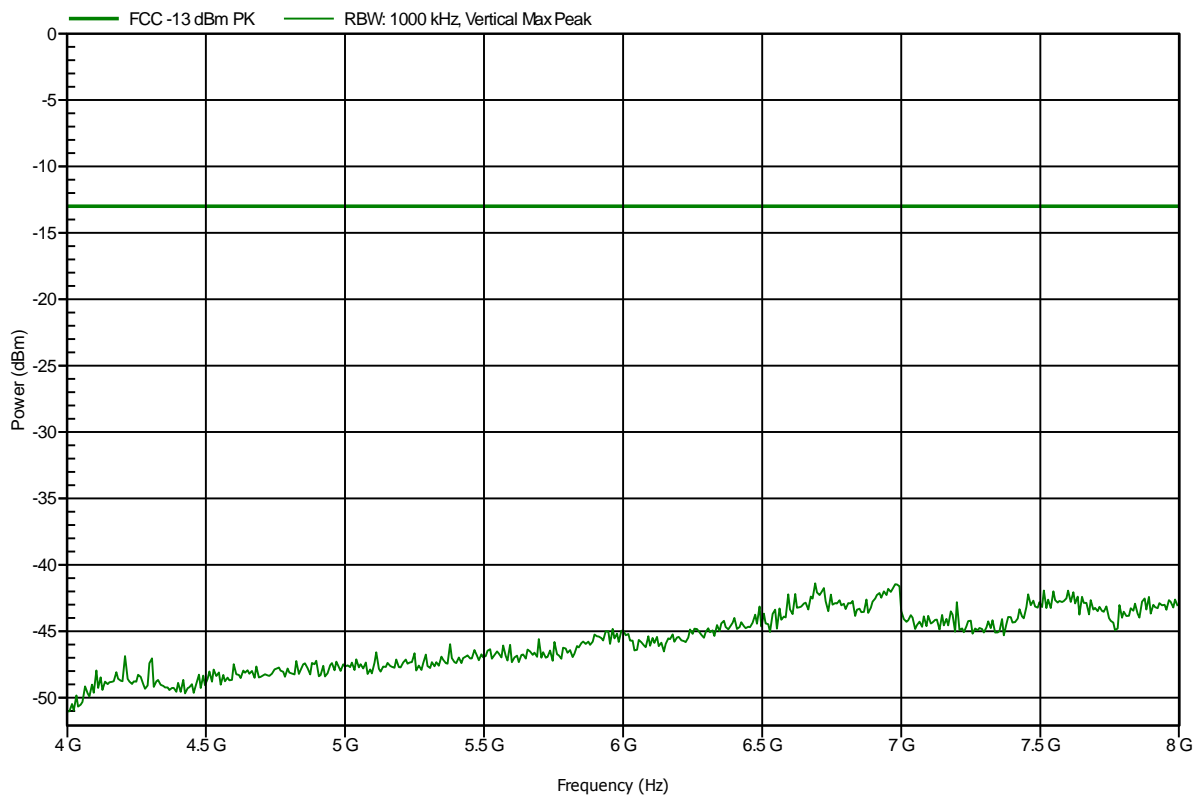


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4132; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 342



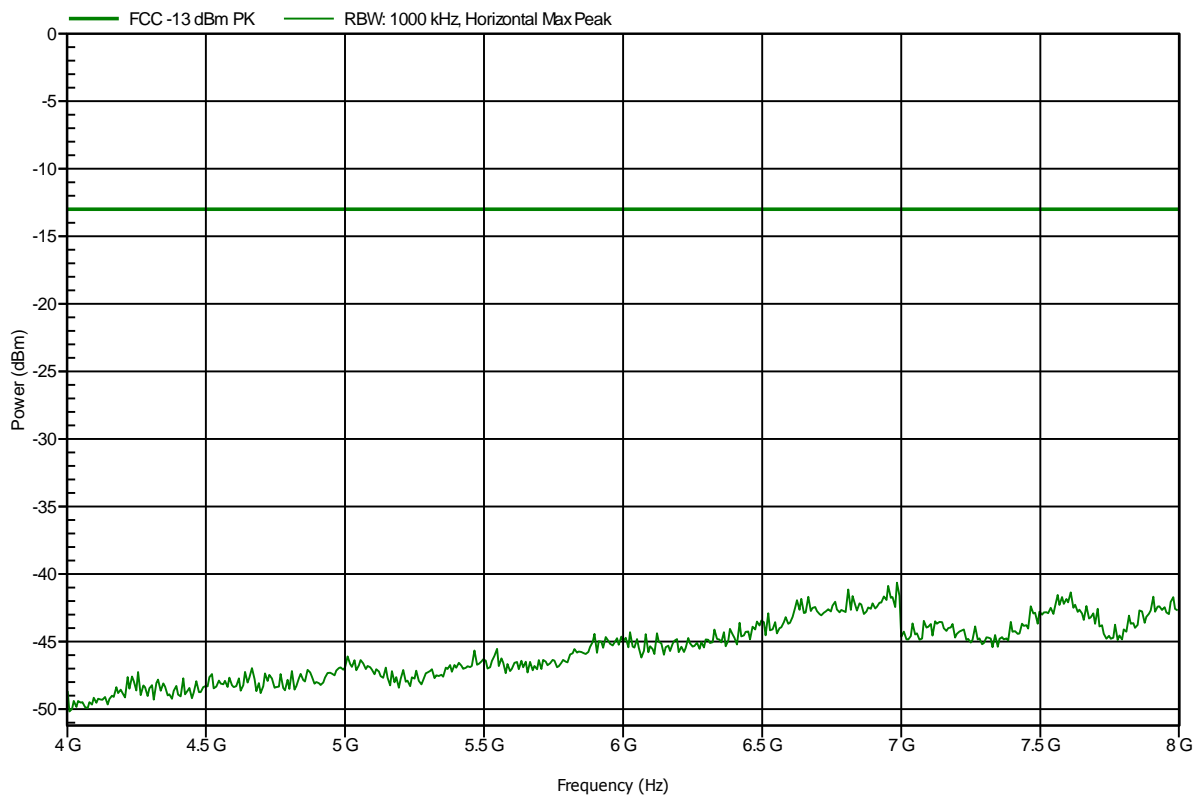


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4132; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 339

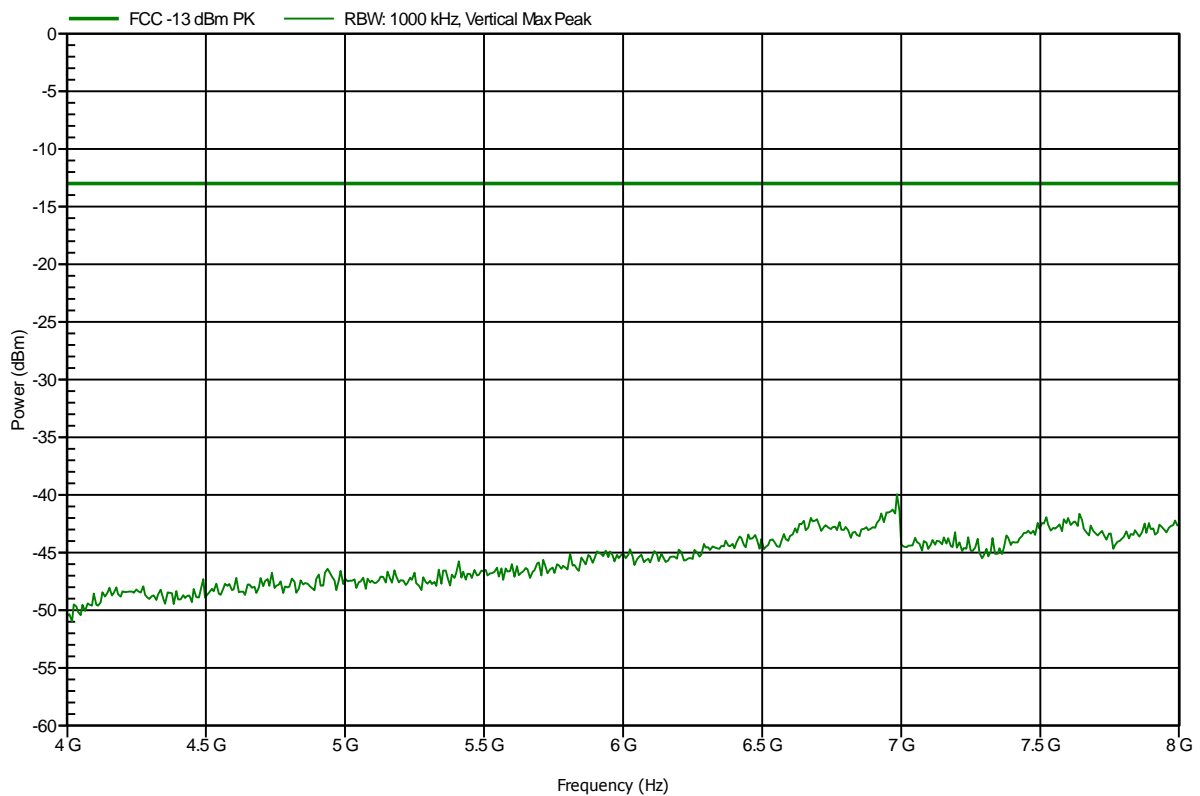


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4175; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 333

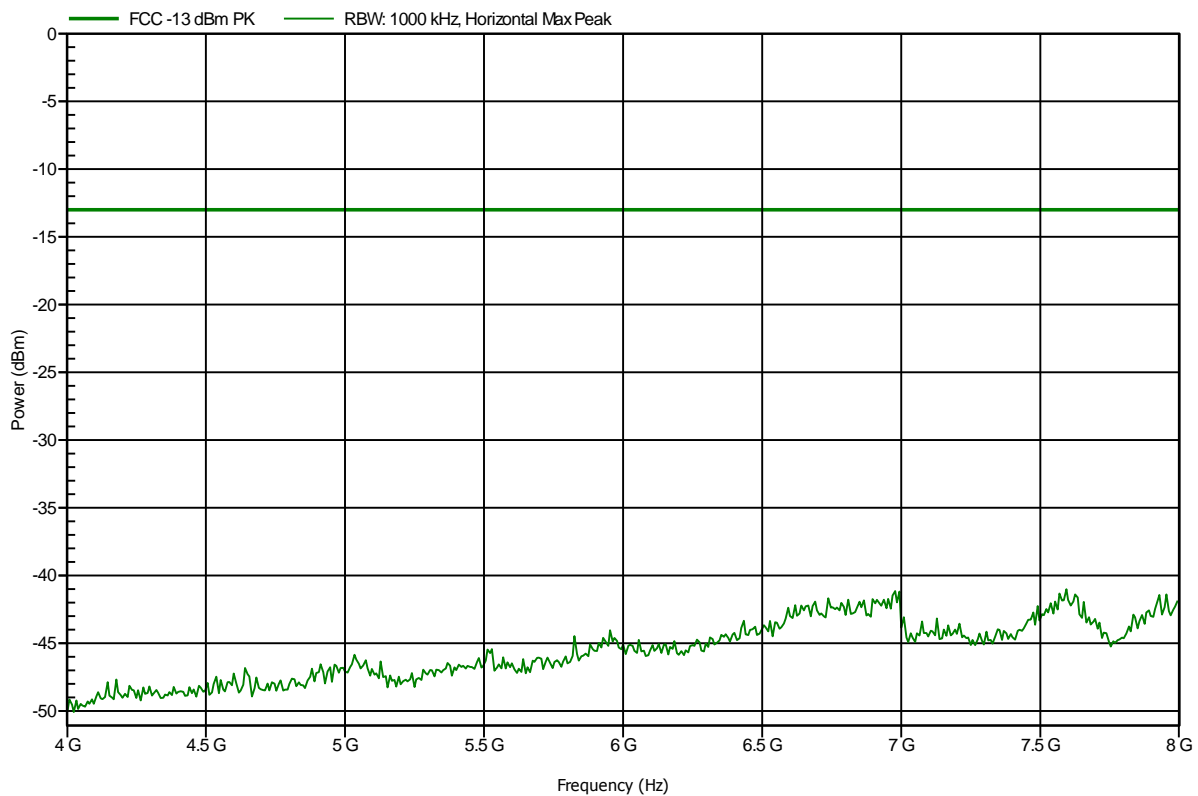


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4175; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 336

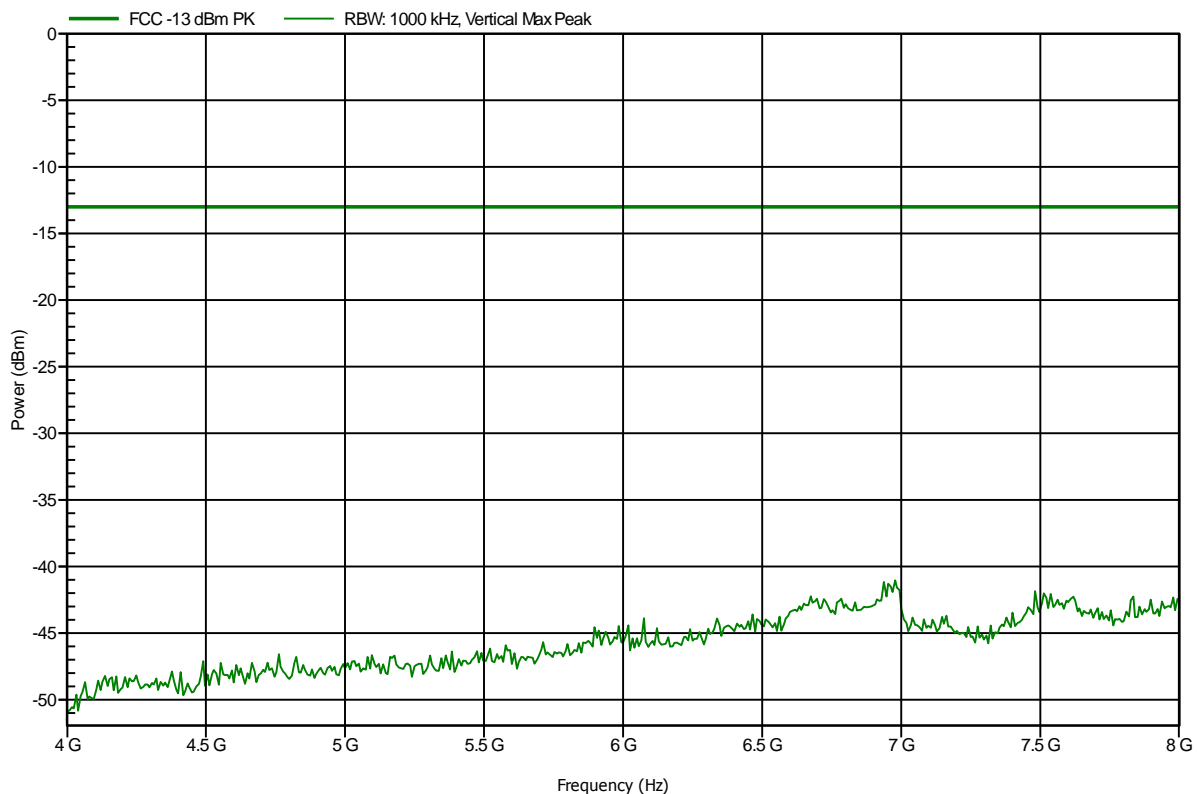


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4233; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 345

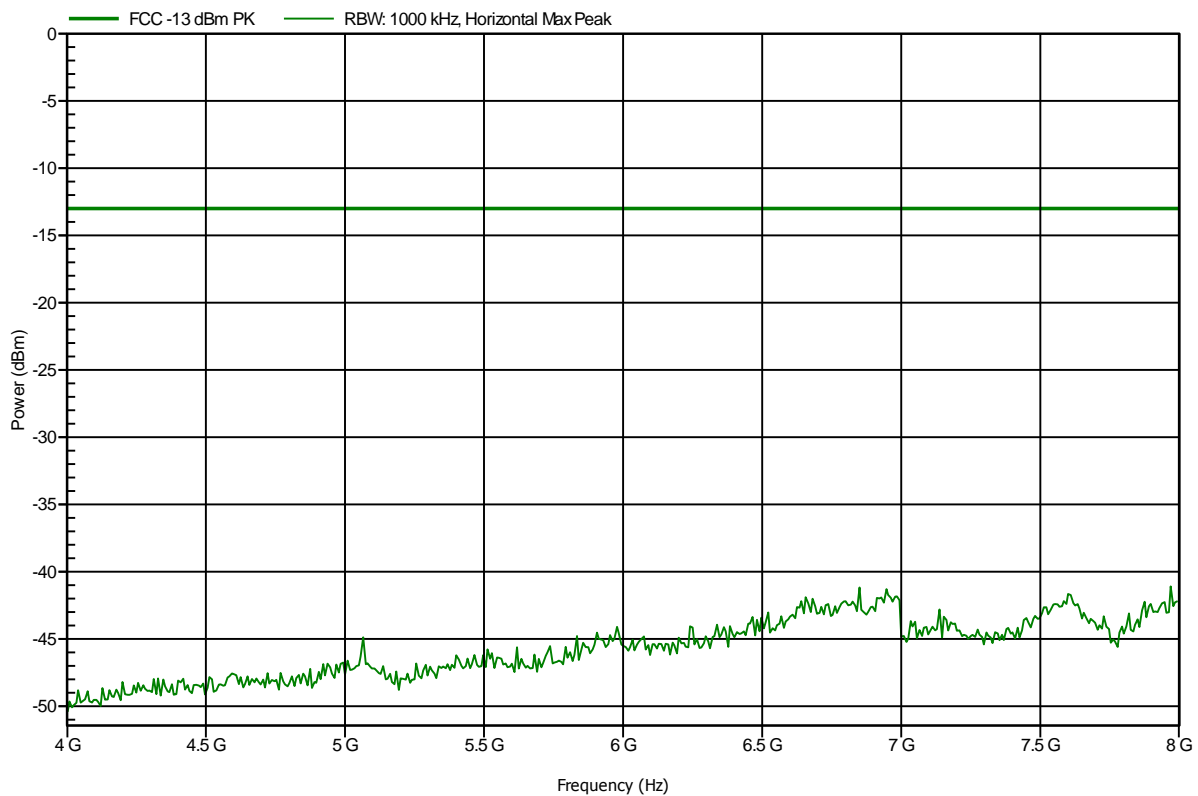


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4233; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 348

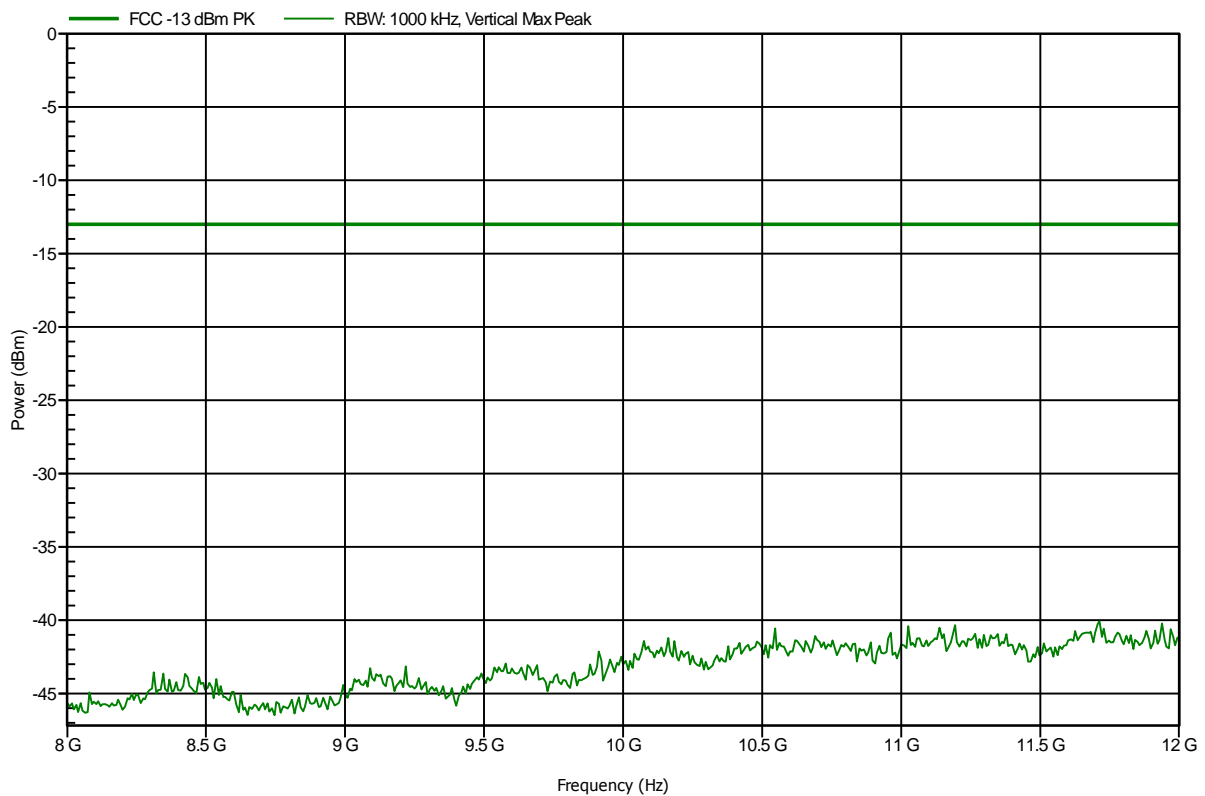


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4132; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 343

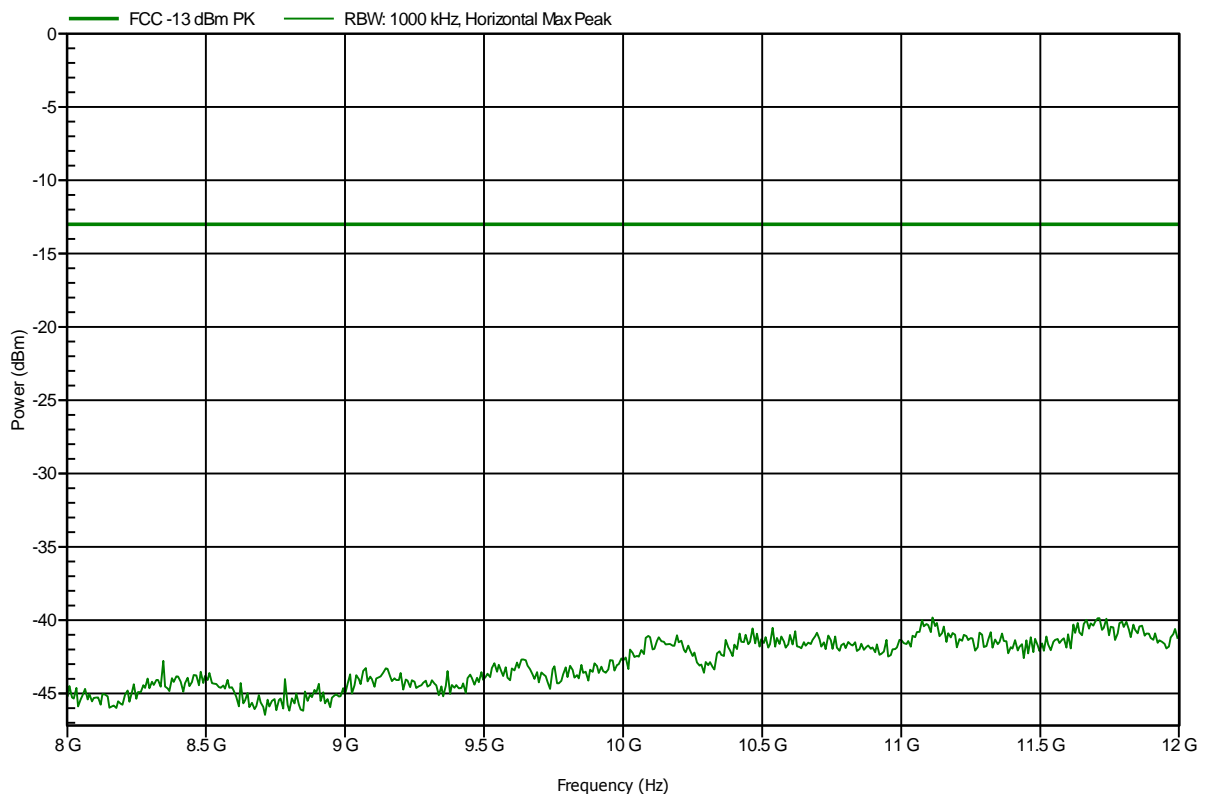


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4132; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 340

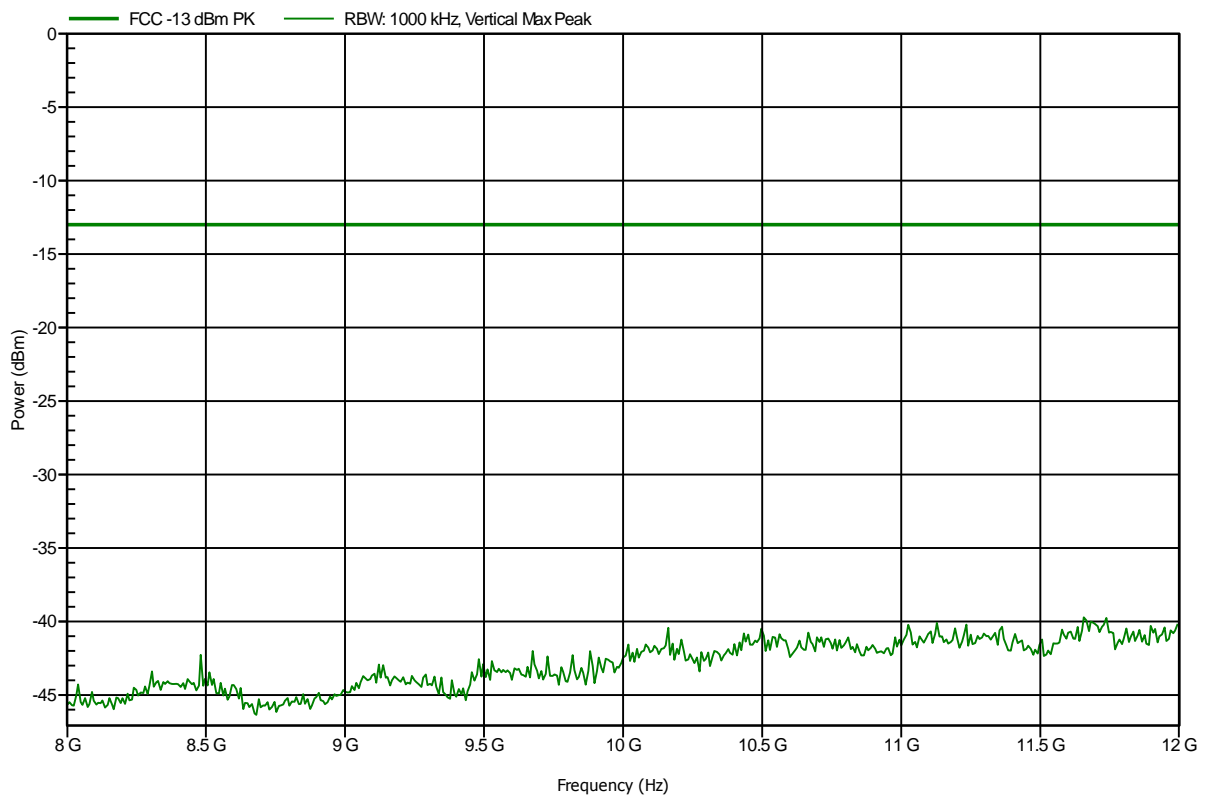


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4175; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 334



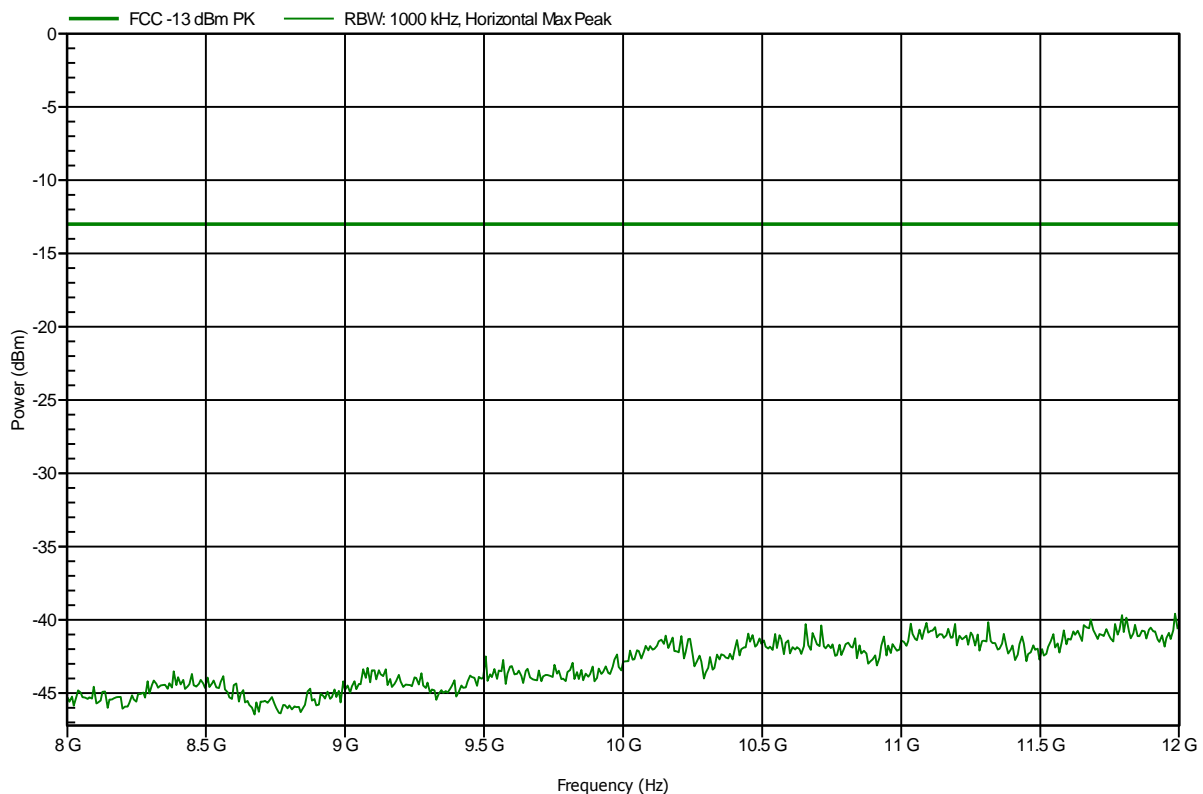


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4175; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 337

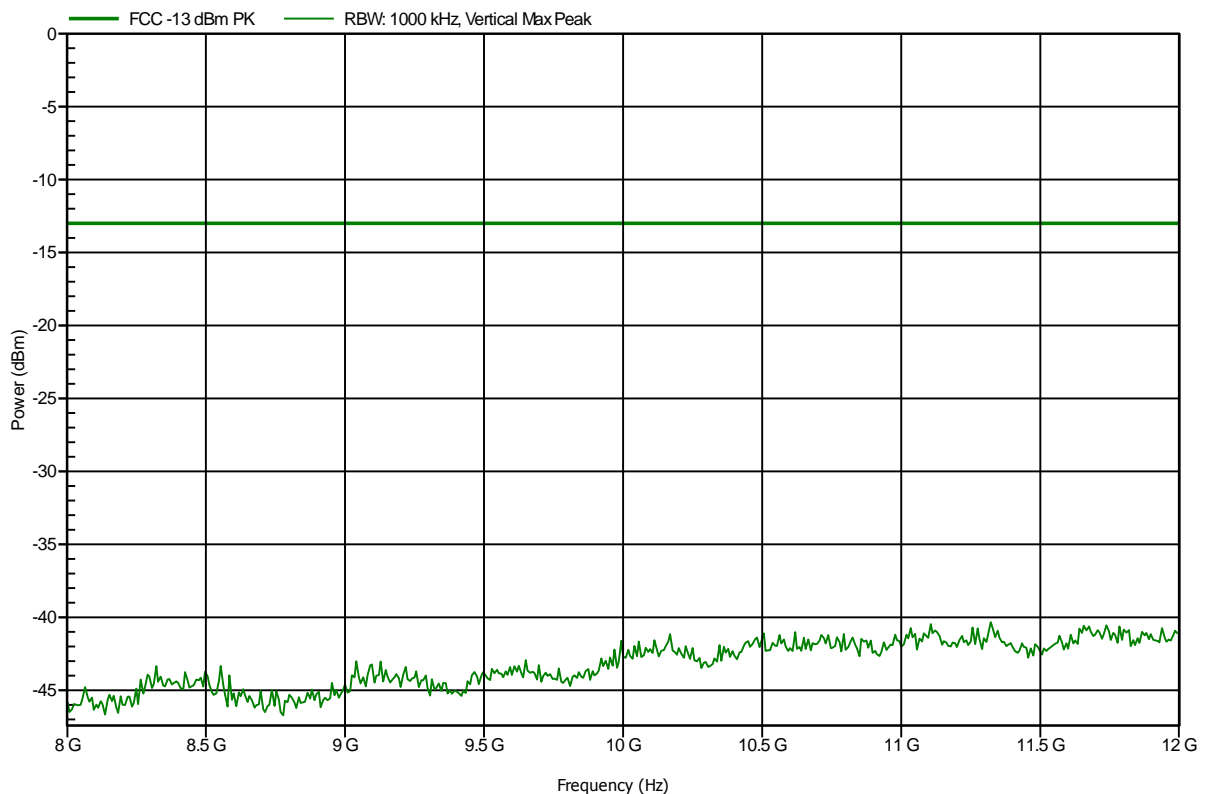


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4233; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 346

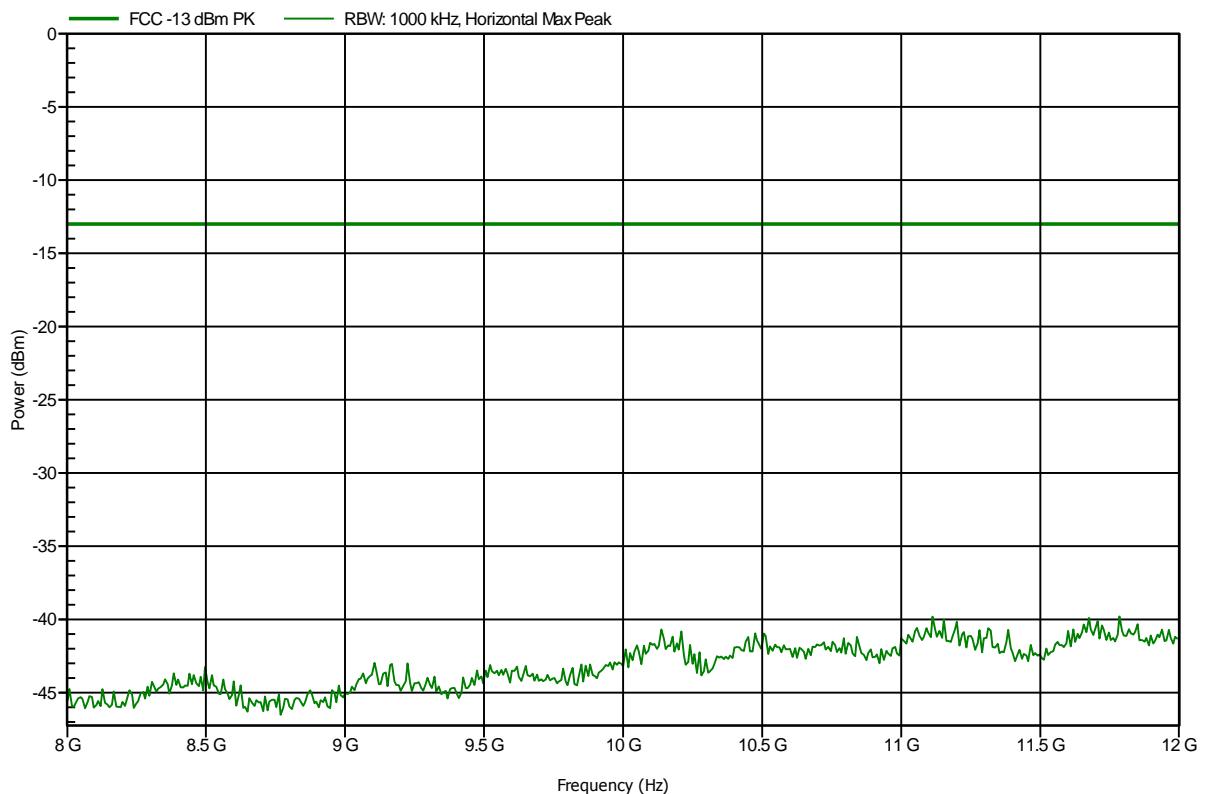


**Spurious emissions according to FCC part 22 Subpart H**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD V; CH: 4233; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 349

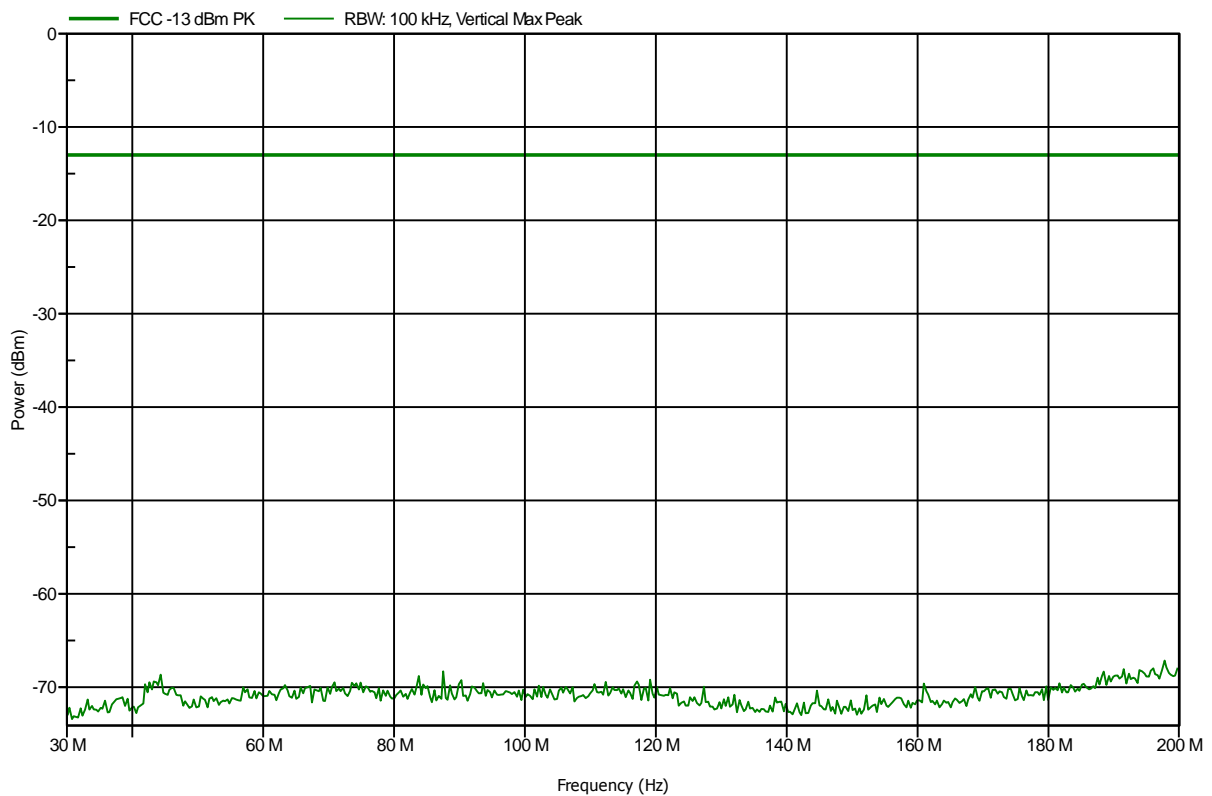


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9400; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 331

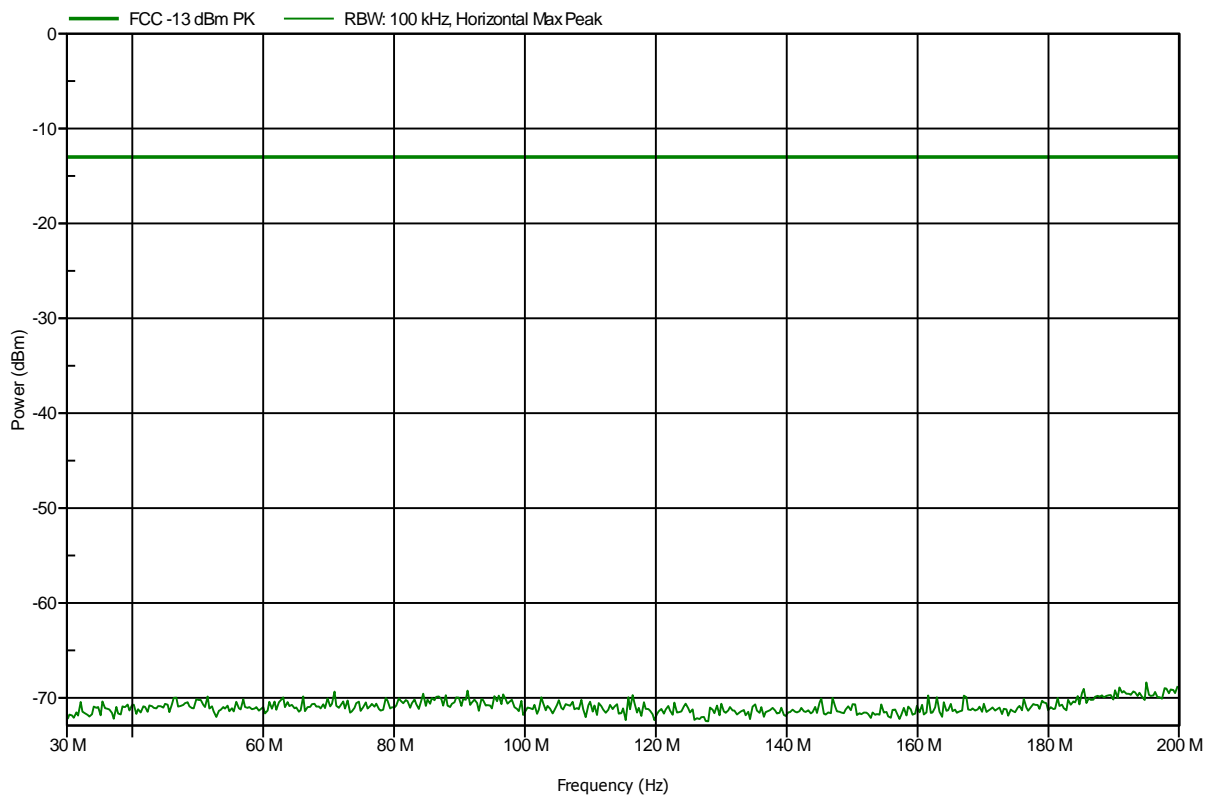


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9400; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 332

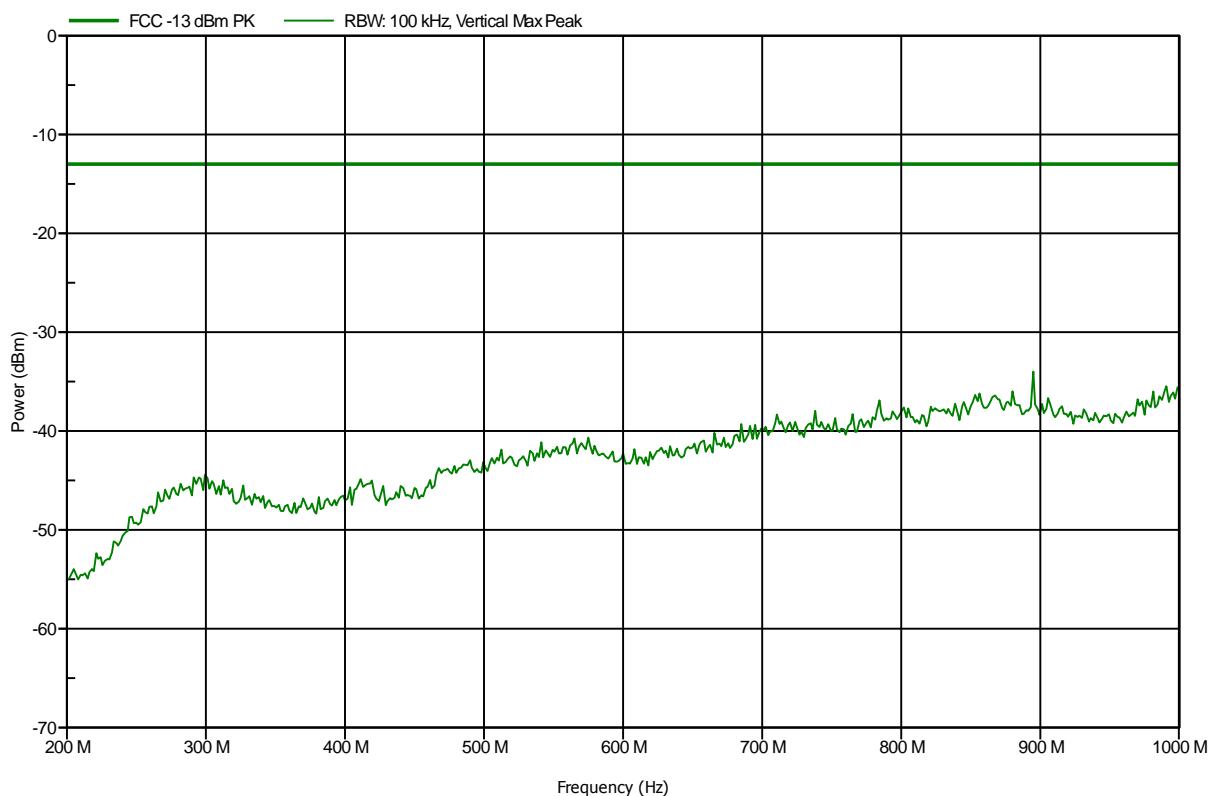


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9400; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 333

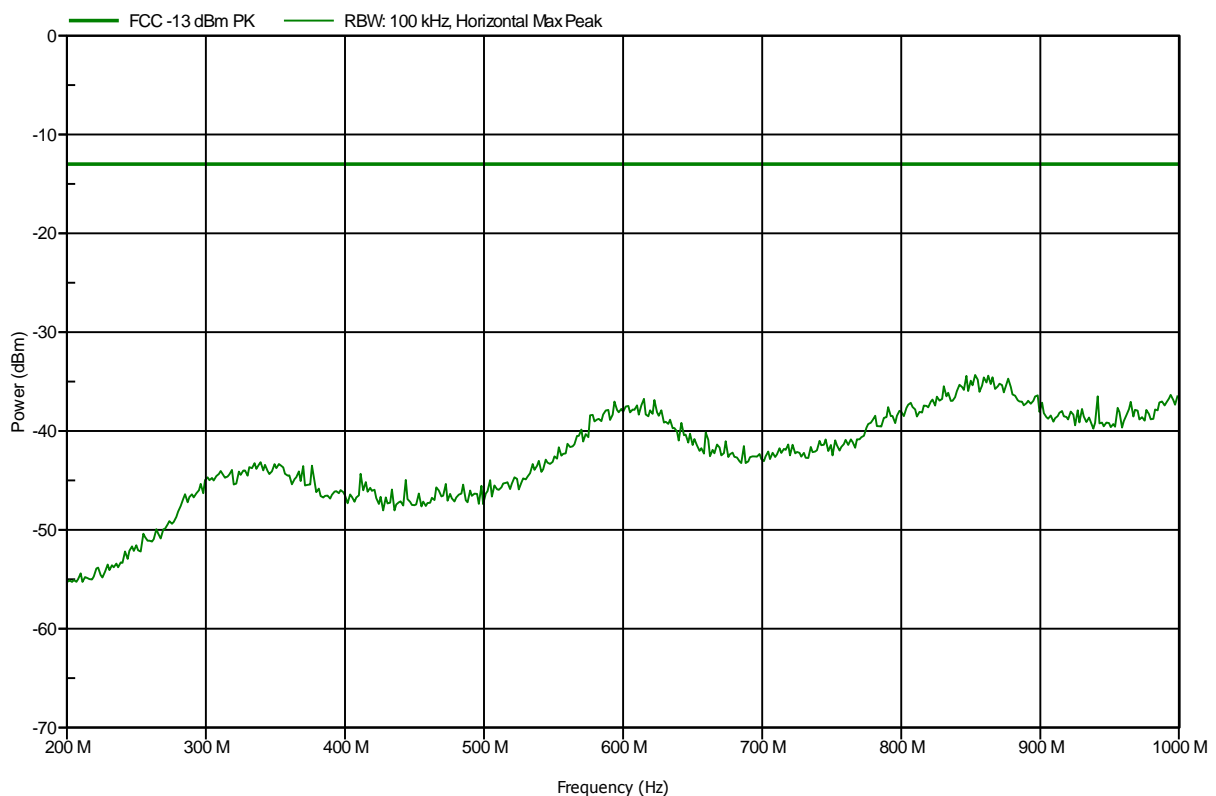


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9400; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical; worst case

Index 334

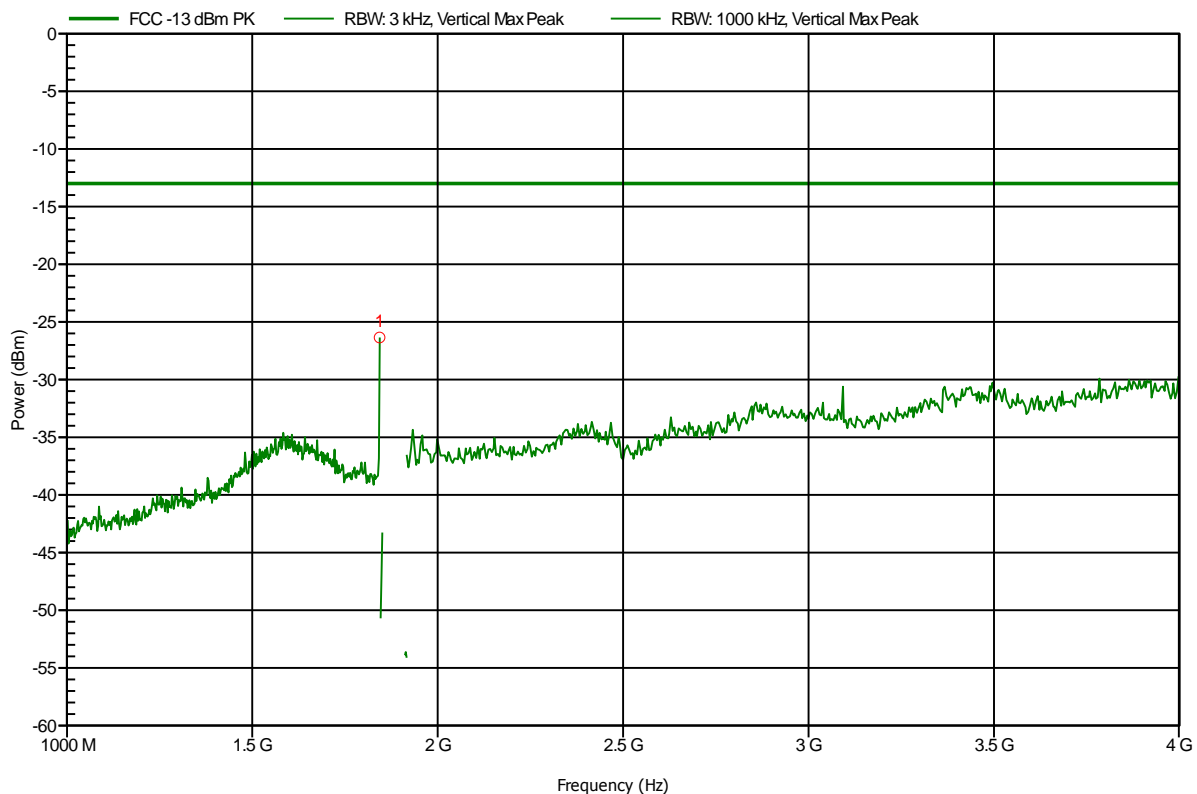


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 025, Vertical  
 Measurement distance: 3 m  
 Mode: TX; UMTS; FDD II; CH: 9262; HSPA; Pmax; Ant: integral  
 Test Date: 2013-12-11  
 Note: EUT vertical

Index 336



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.843 GHz	-26.4 dBm	-13 dBm	-13.35 dB	Pass

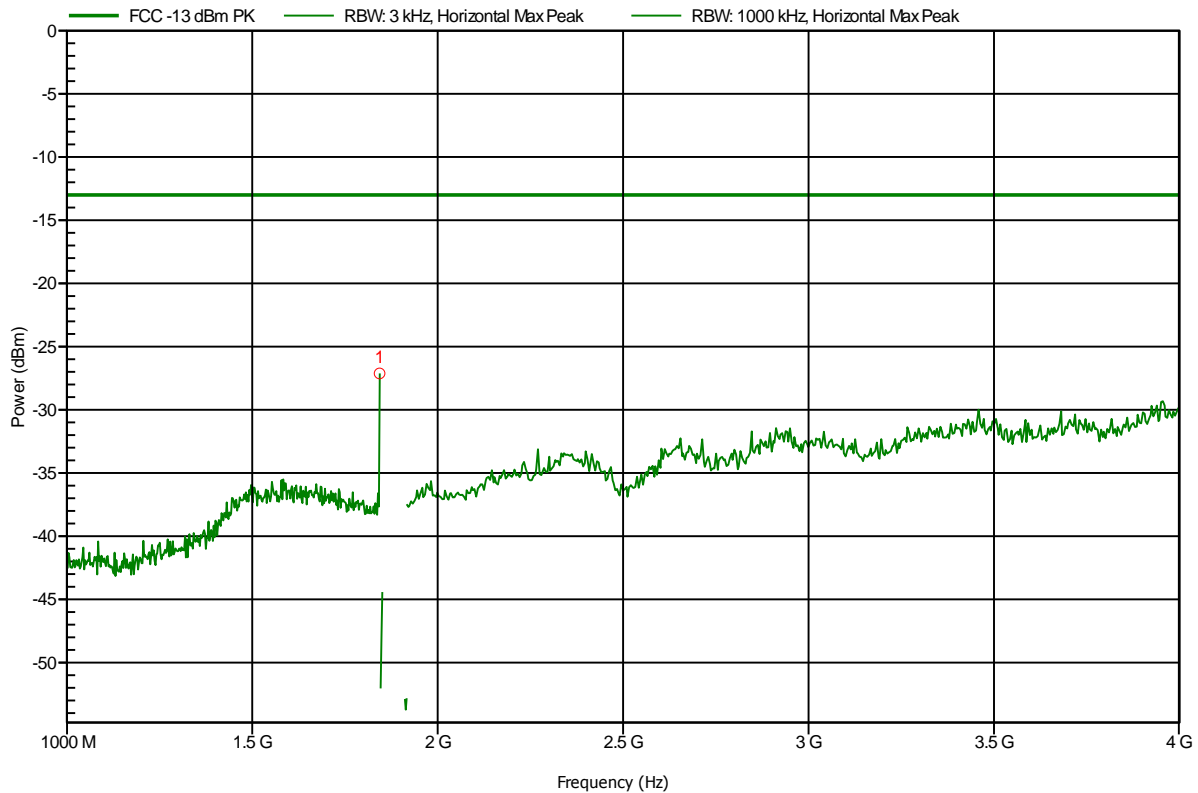


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 025, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; UMTS; FDD II; CH: 9262; HSPA; Pmax; Ant: integral  
 Test Date: 2013-12-11  
 Note: EUT vertical

Index 340



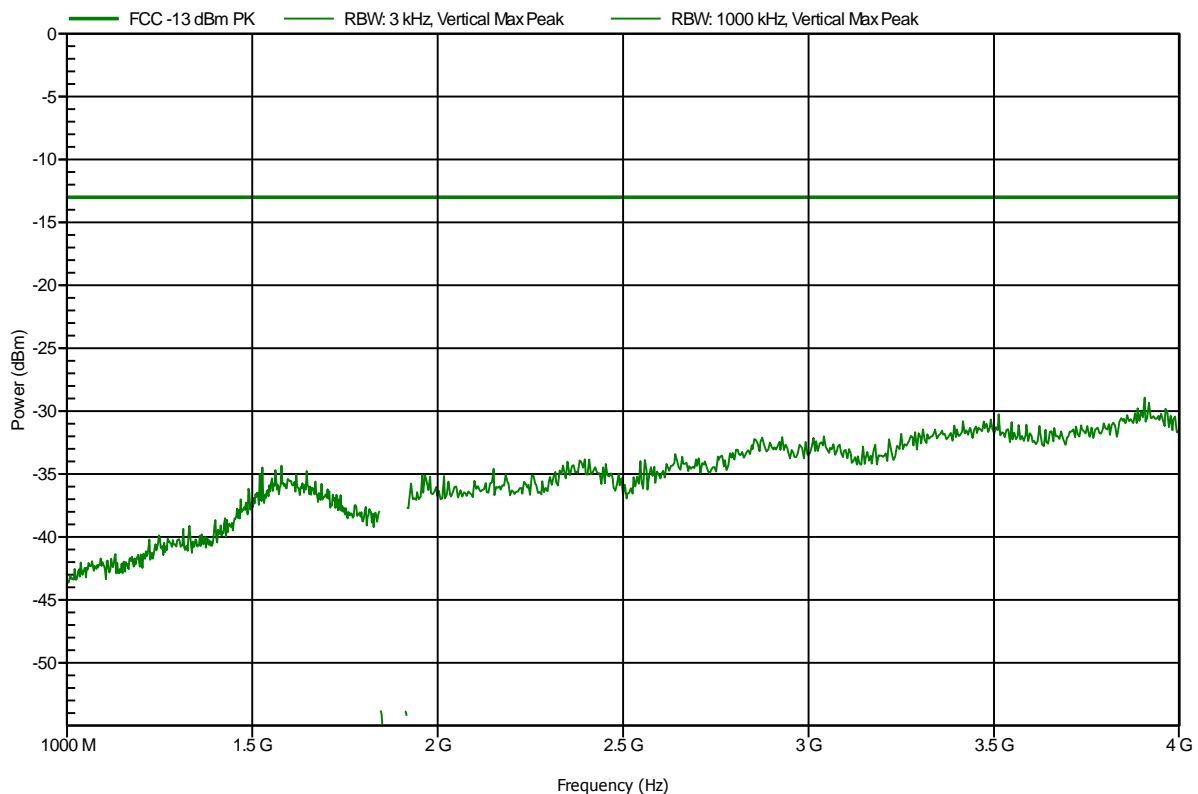
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.843 GHz	-27.1 dBm	-13 dBm	-14.12 dB	Pass

**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9400; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 335

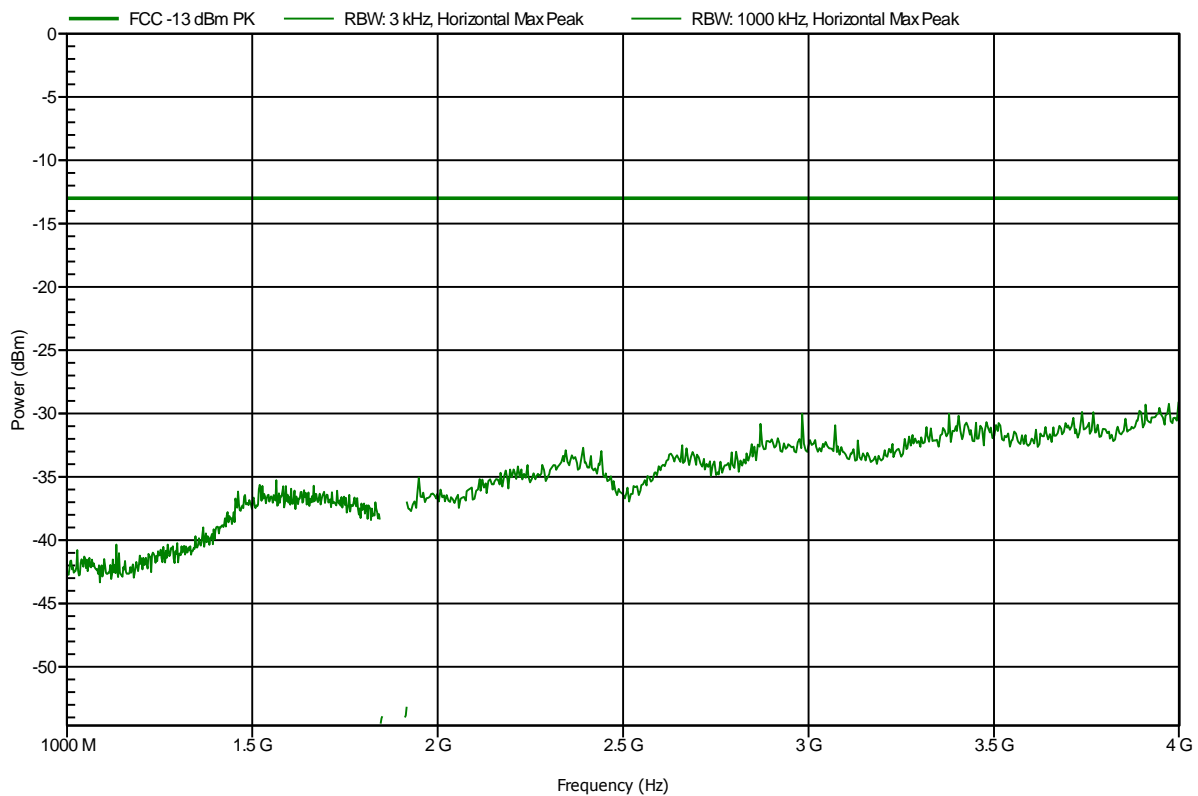


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9400; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 339

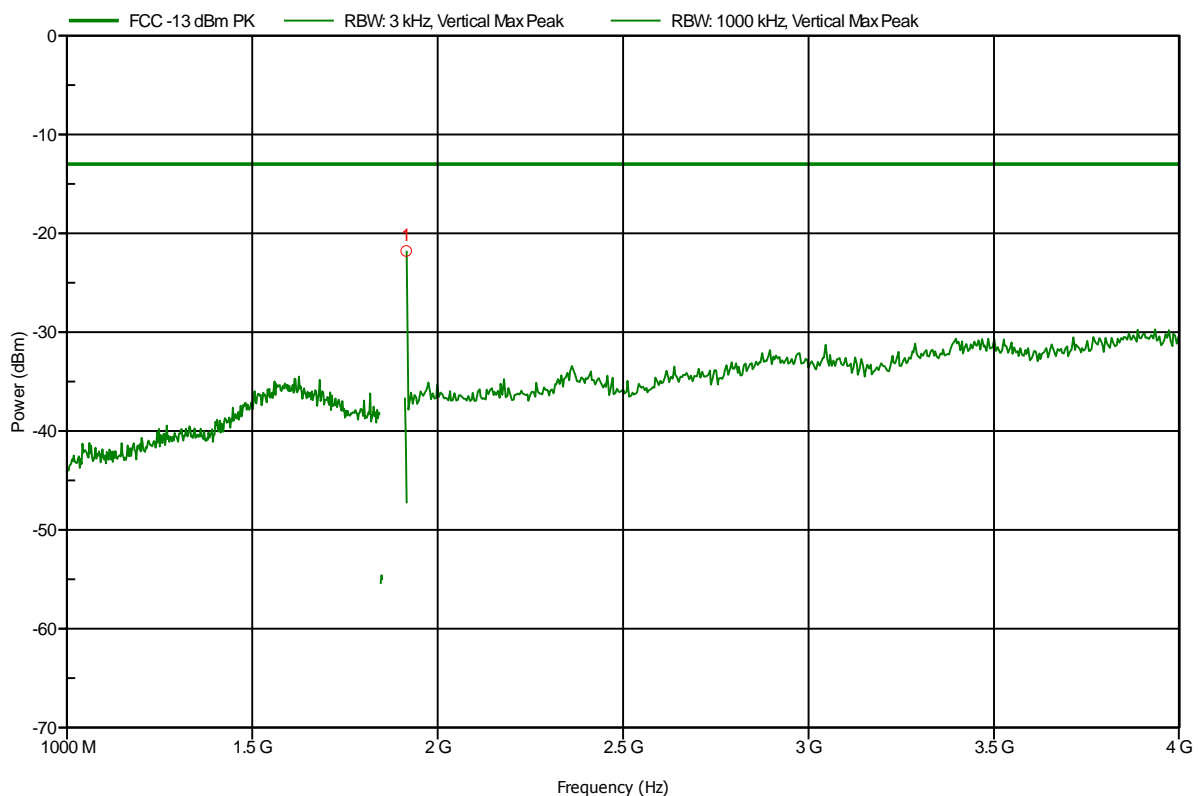


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 025, Vertical  
 Measurement distance: 3 m  
 Mode: TX; UMTS; FDD II; CH: 9538; HSPA; Pmax; Ant: integral  
 Test Date: 2013-12-11  
 Note: EUT vertical

Index 337



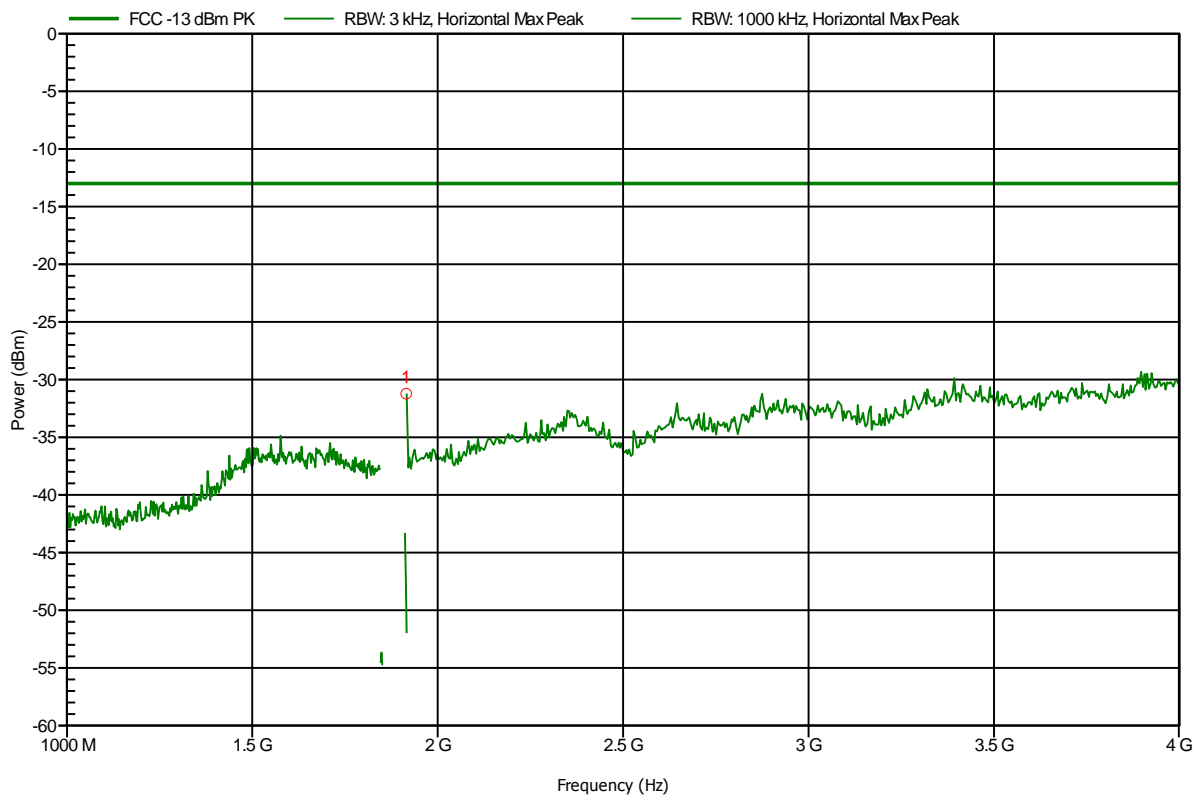
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.915 GHz	-21.8 dBm	-13 dBm	-8.78 dB	Pass

**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 025, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; UMTS; FDD II; CH: 9538; HSPA; Pmax; Ant: integral  
 Test Date: 2013-12-11  
 Note: EUT vertical

Index 338



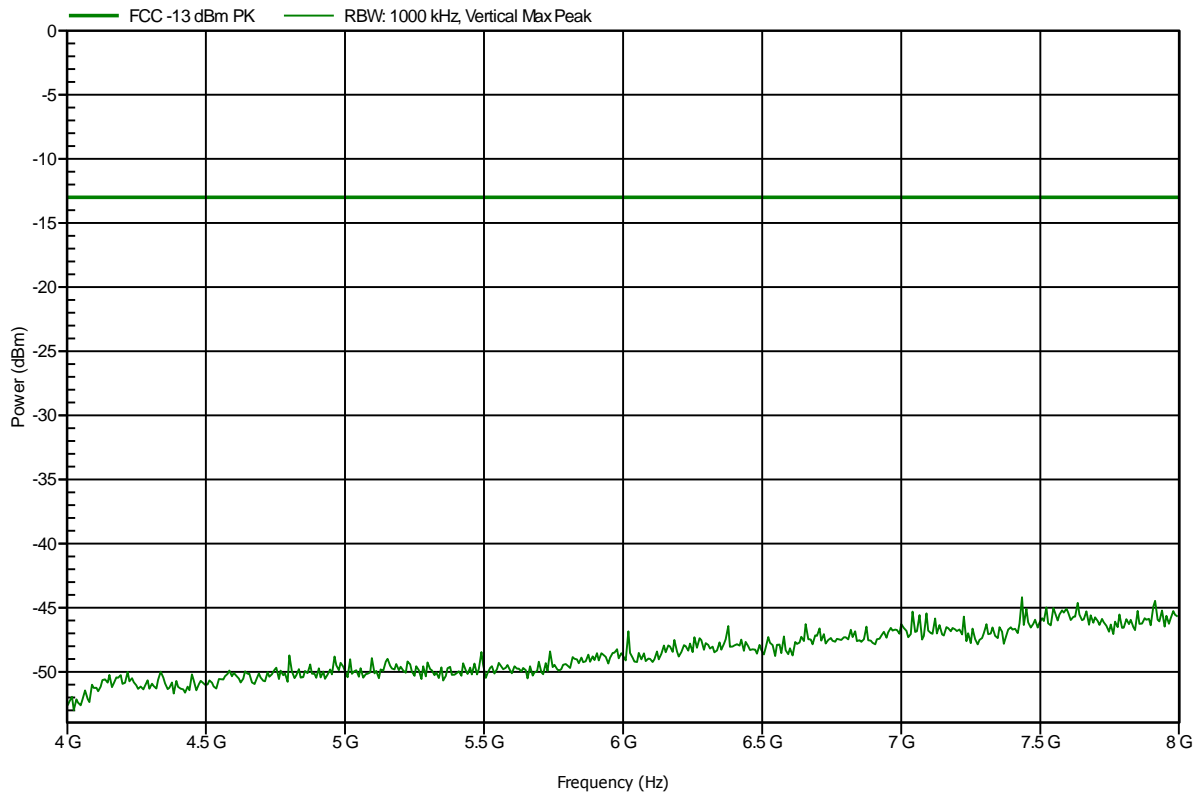
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.915 GHz	-31.2 dBm	-13 dBm	-18.22 dB	Pass

**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9262; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 344

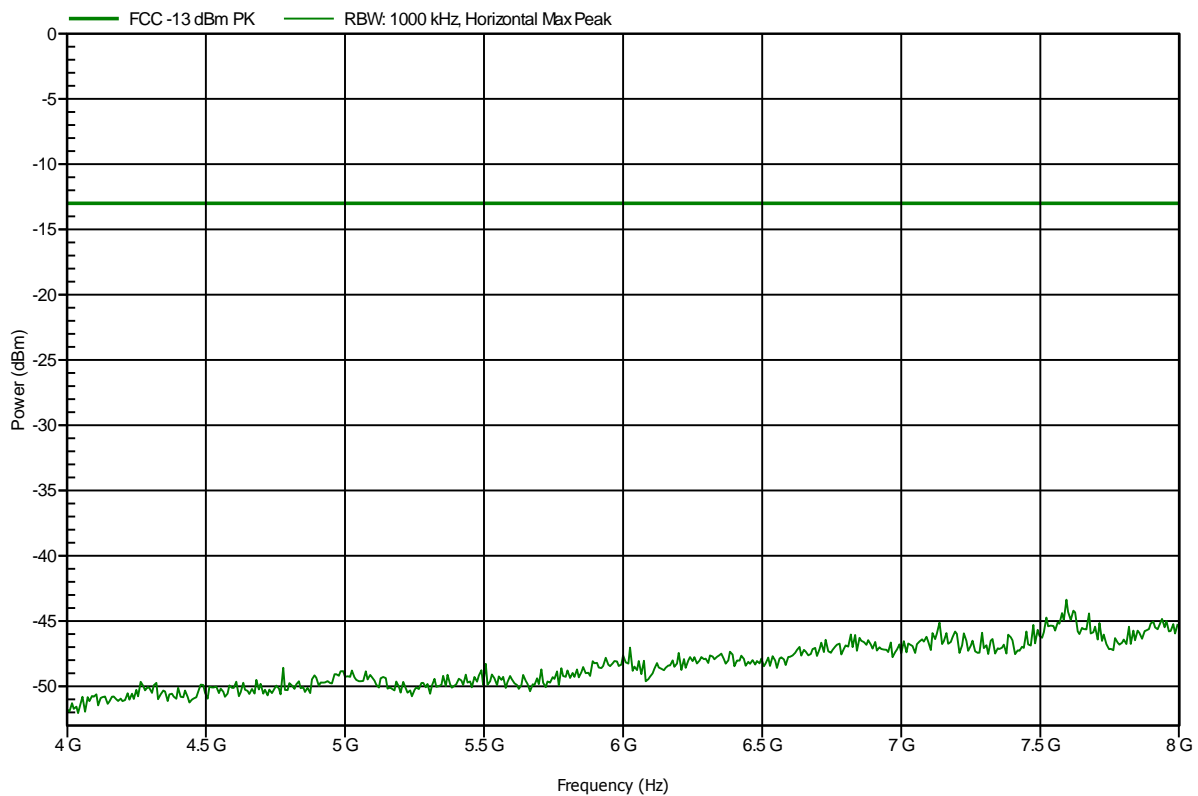


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9262; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 341

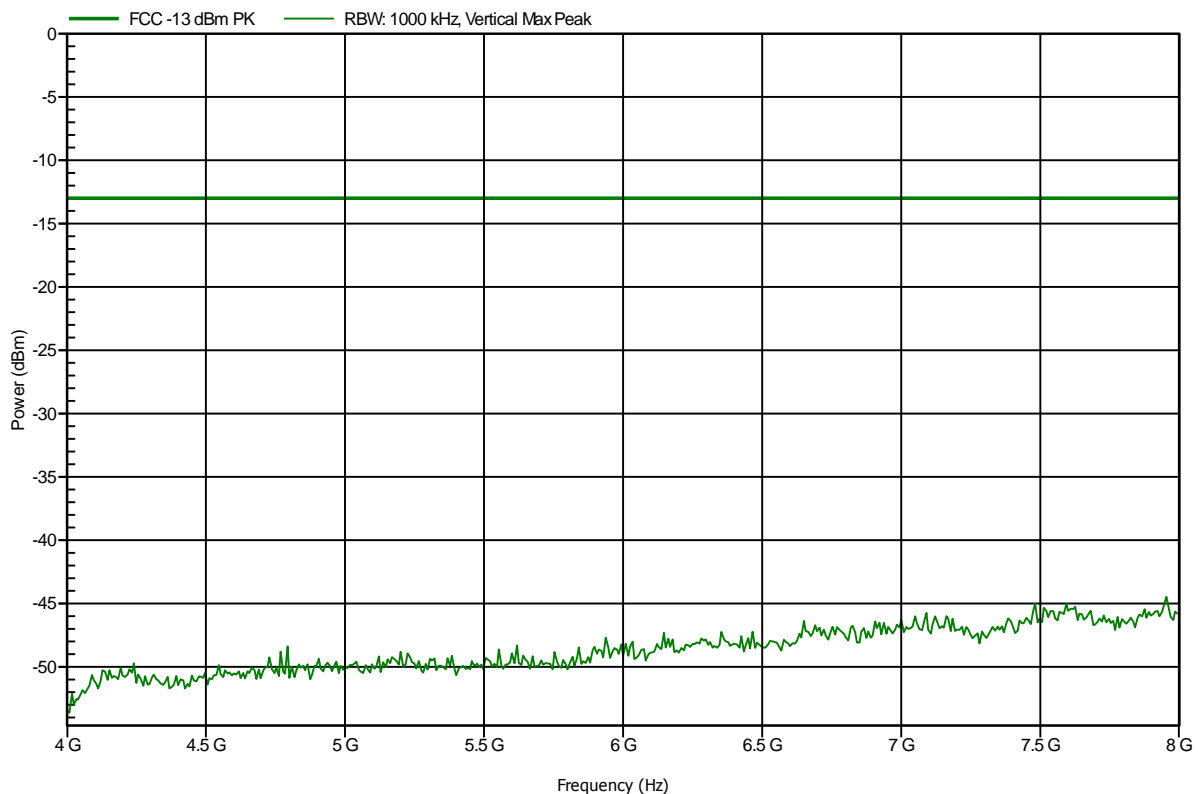


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9400; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 347



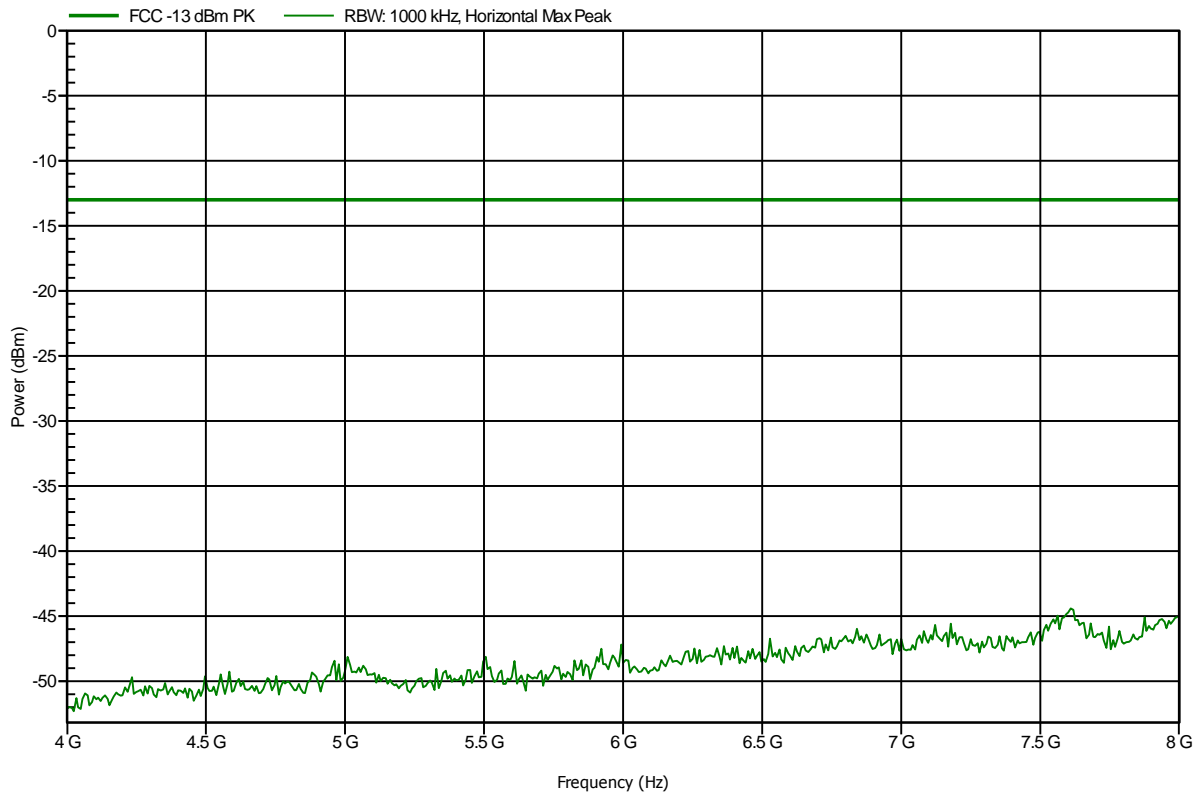


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9400; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 350

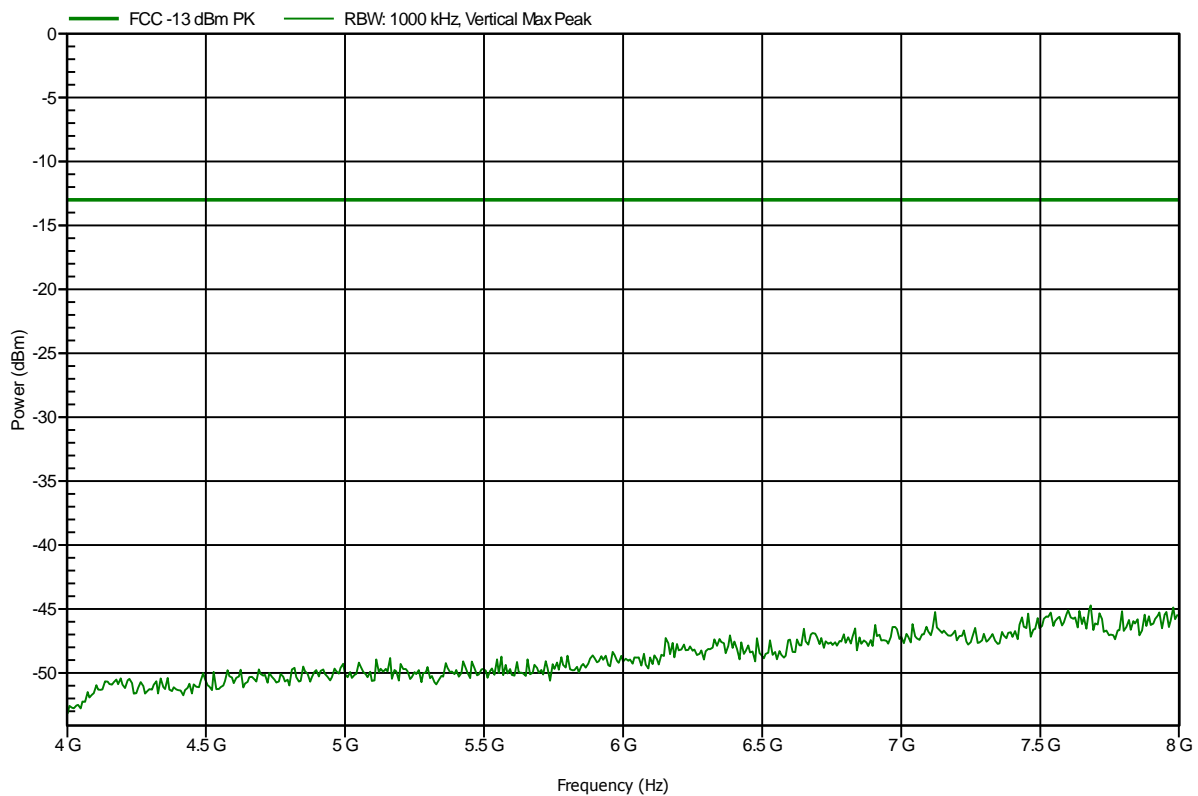


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9538; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 356

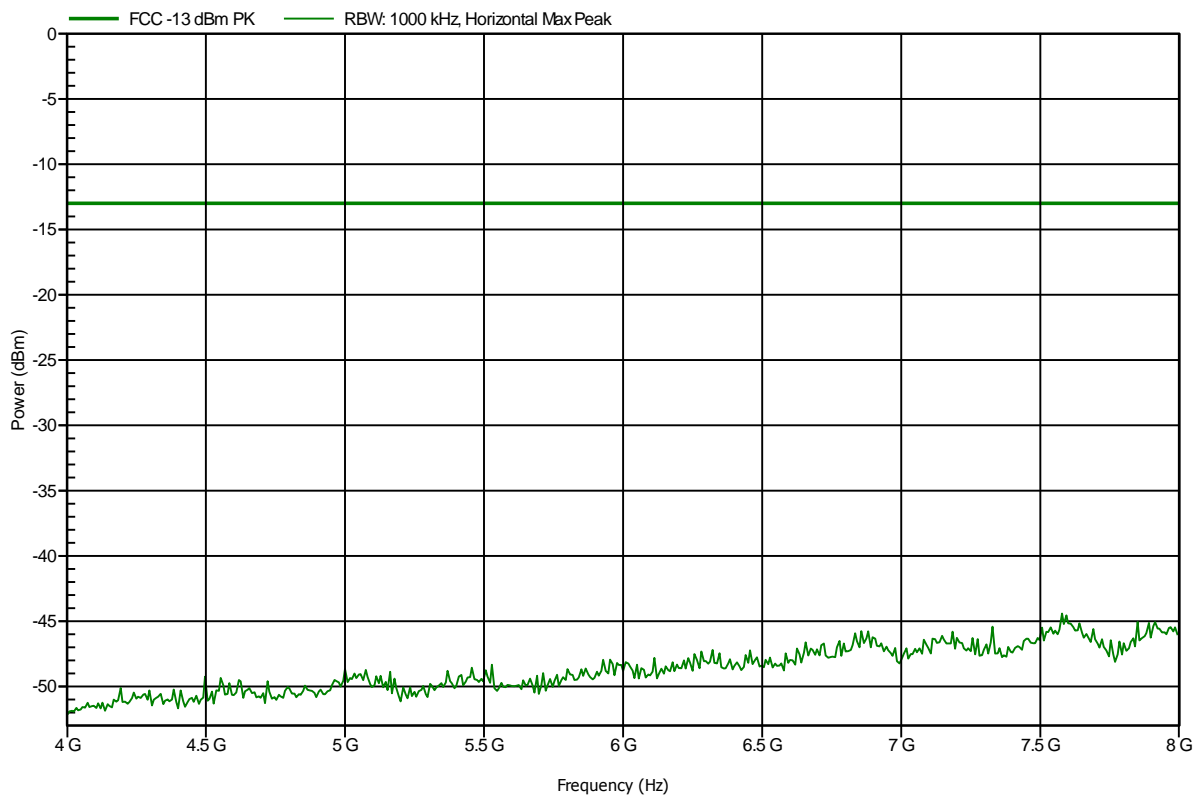


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9538; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 353

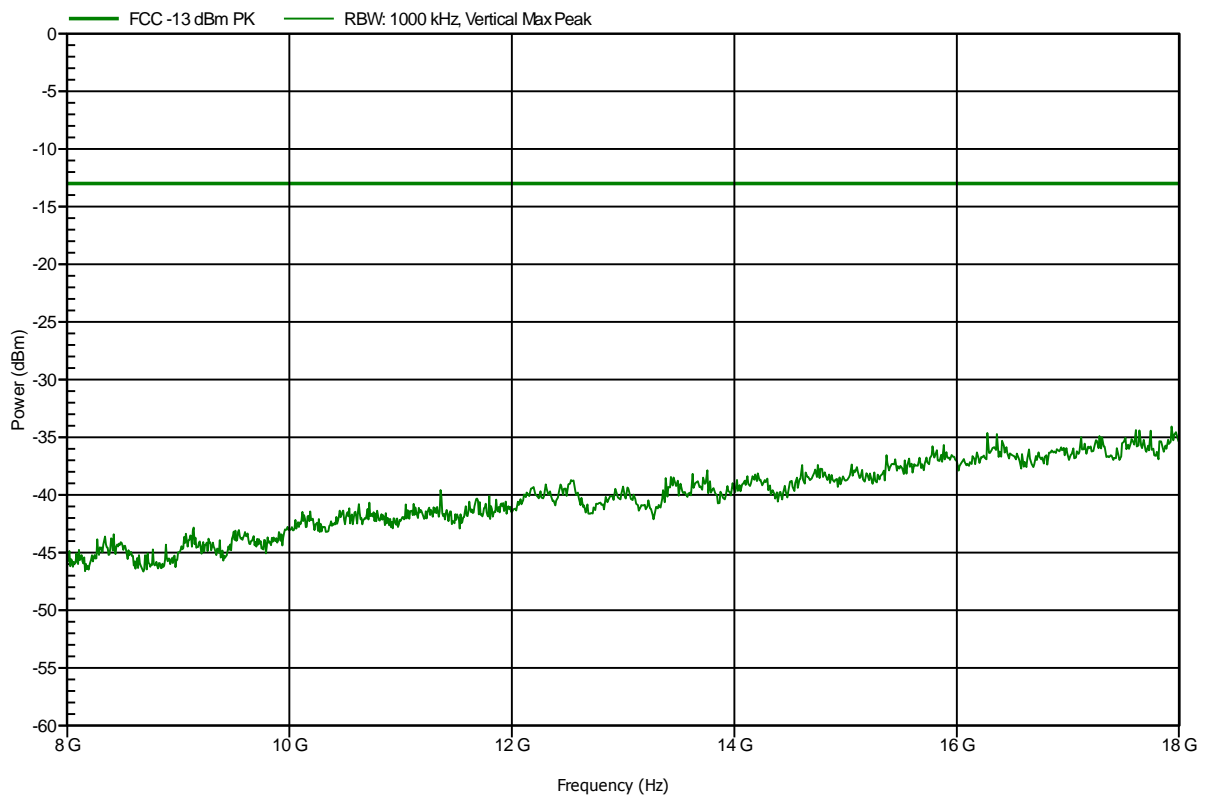


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9262; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 345

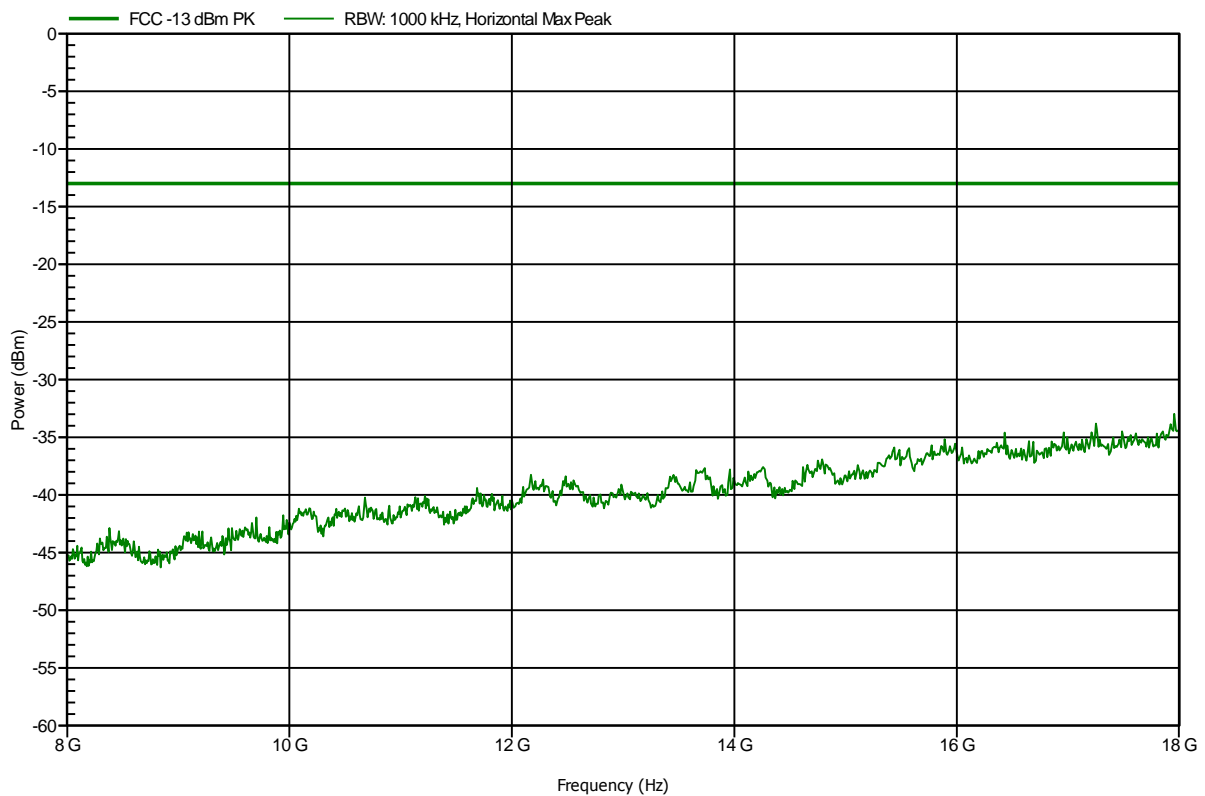


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9262; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 342

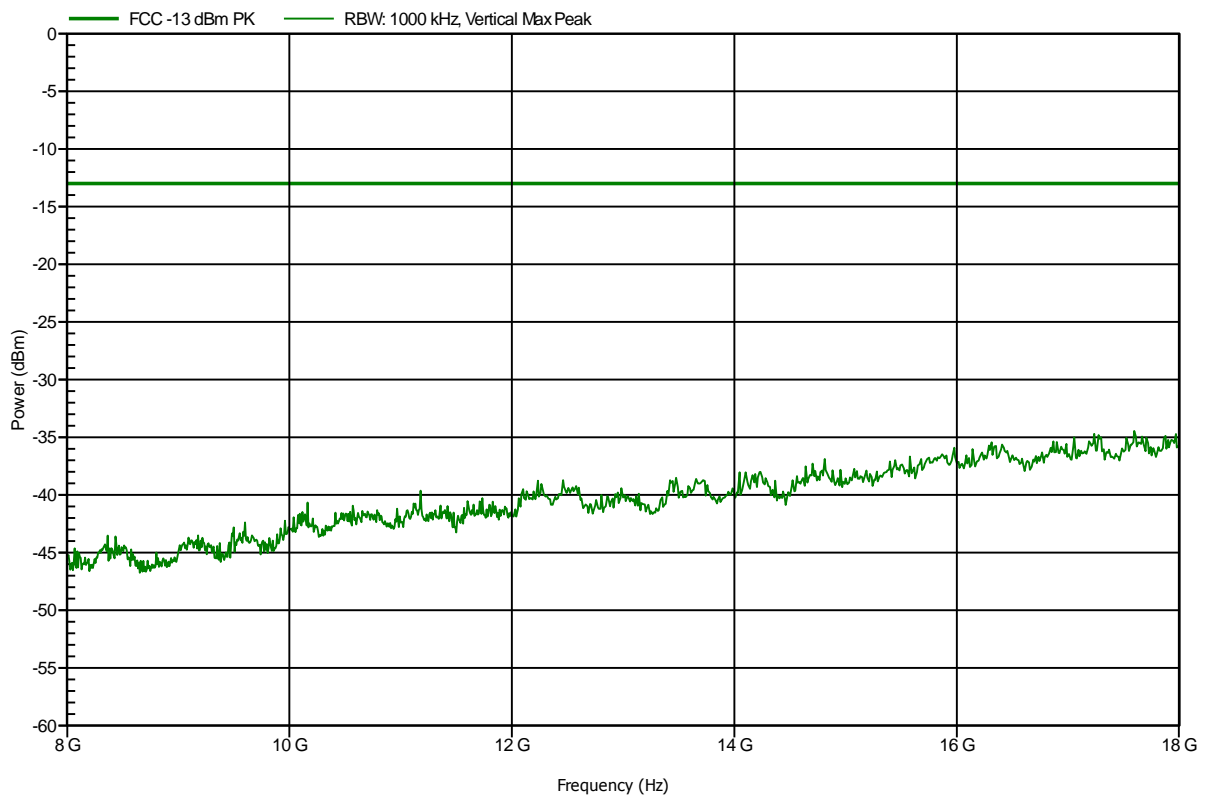


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9400; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 348

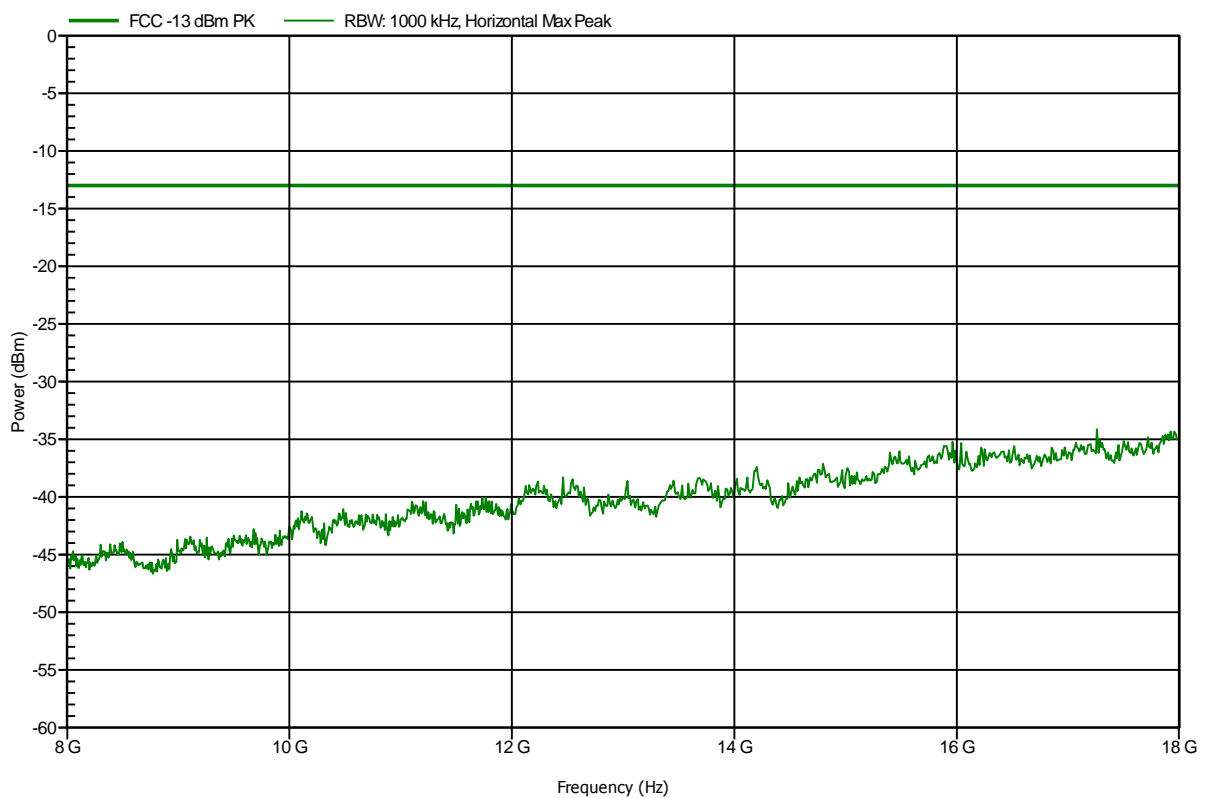


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9400; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 351

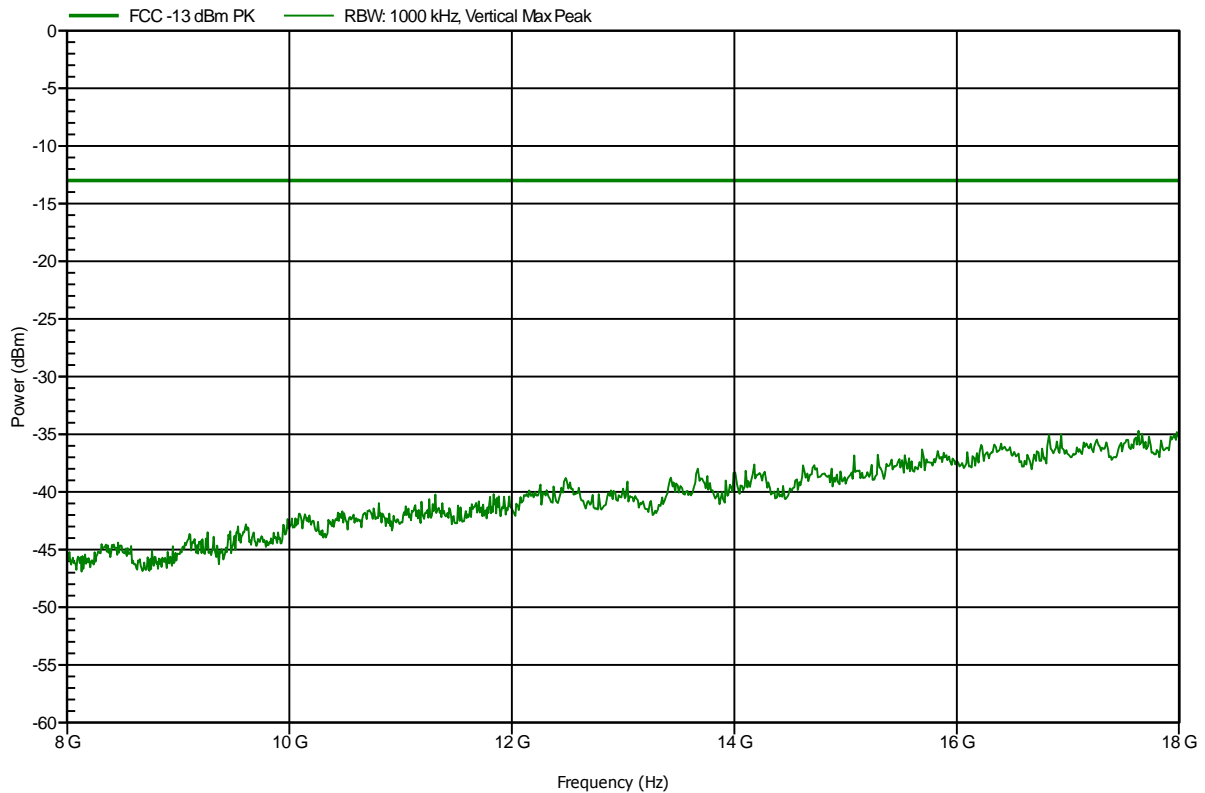


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9538; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 357



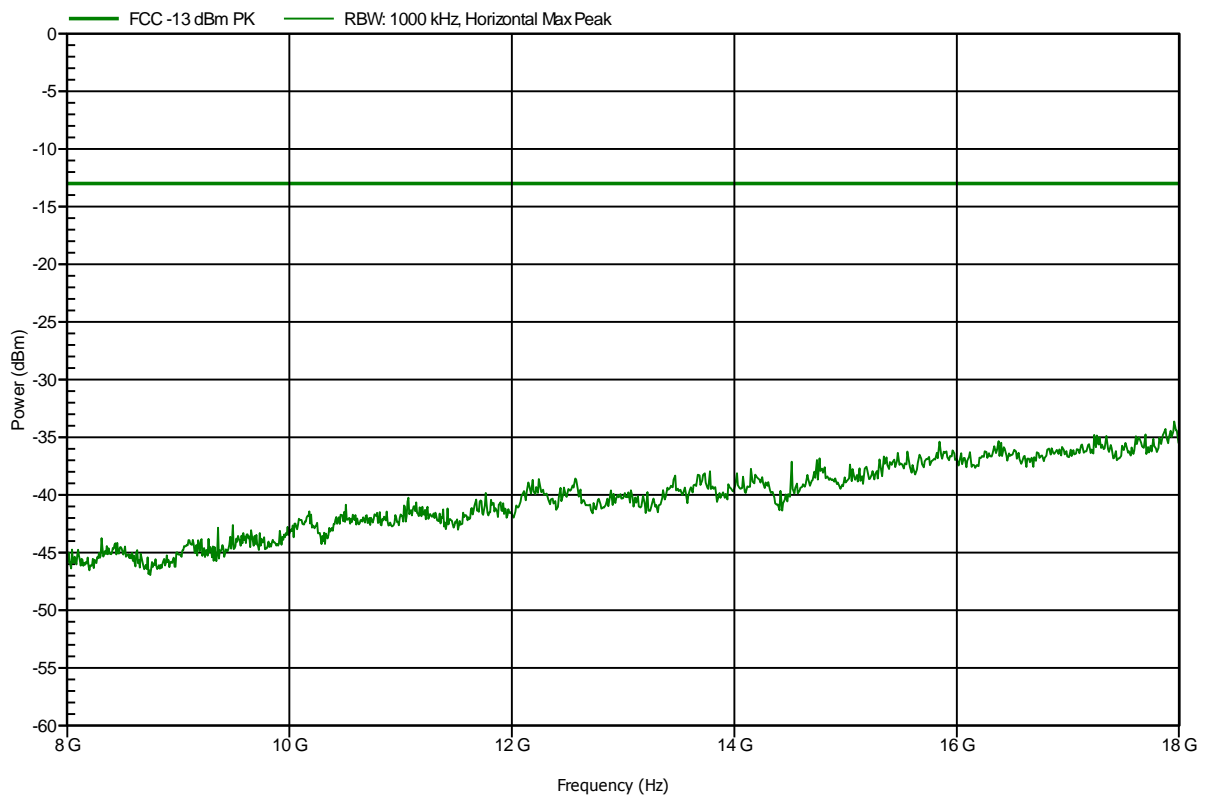


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9538; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 354

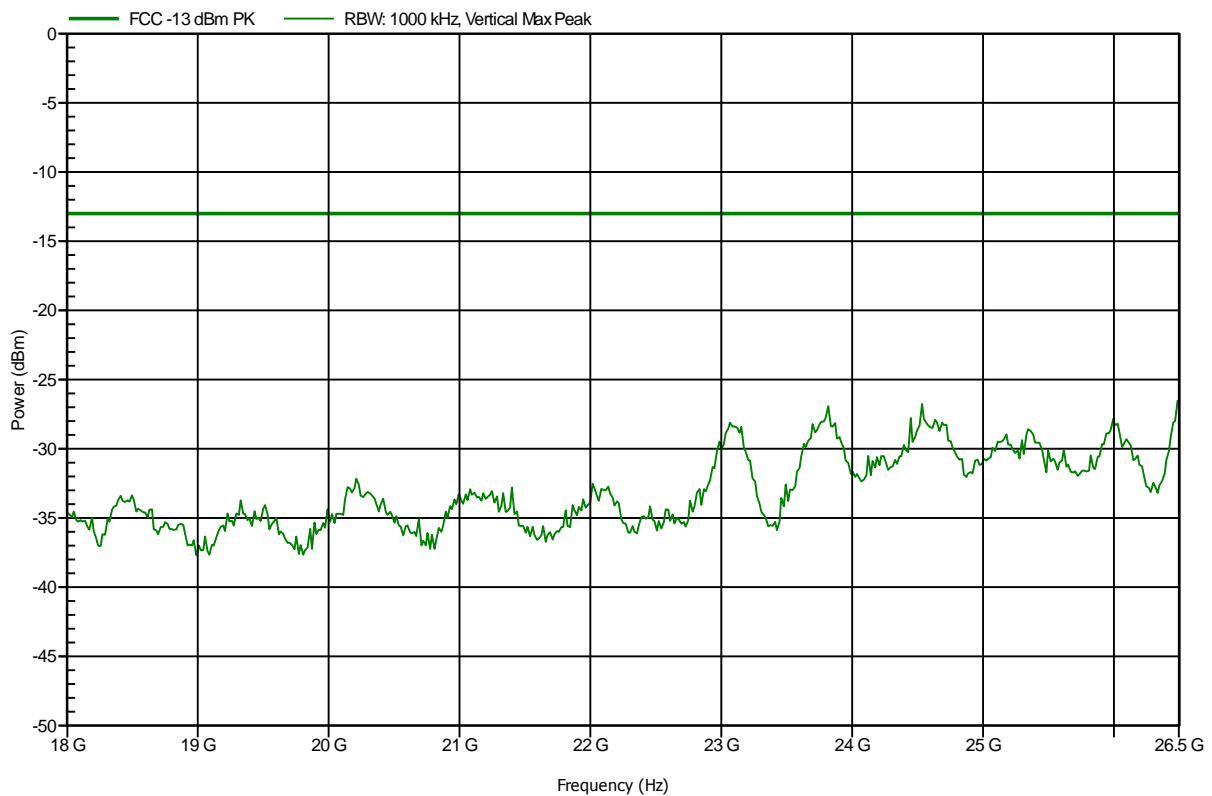


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9262; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 346

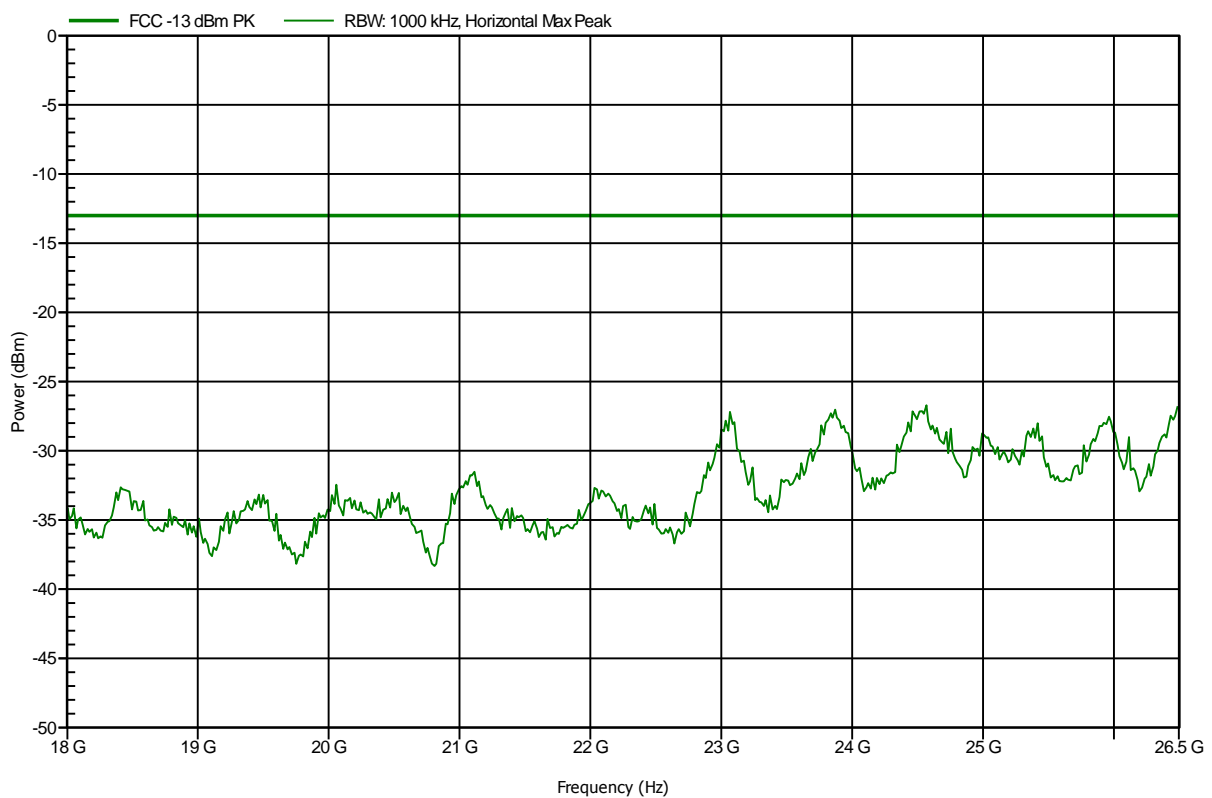


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9262; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 343

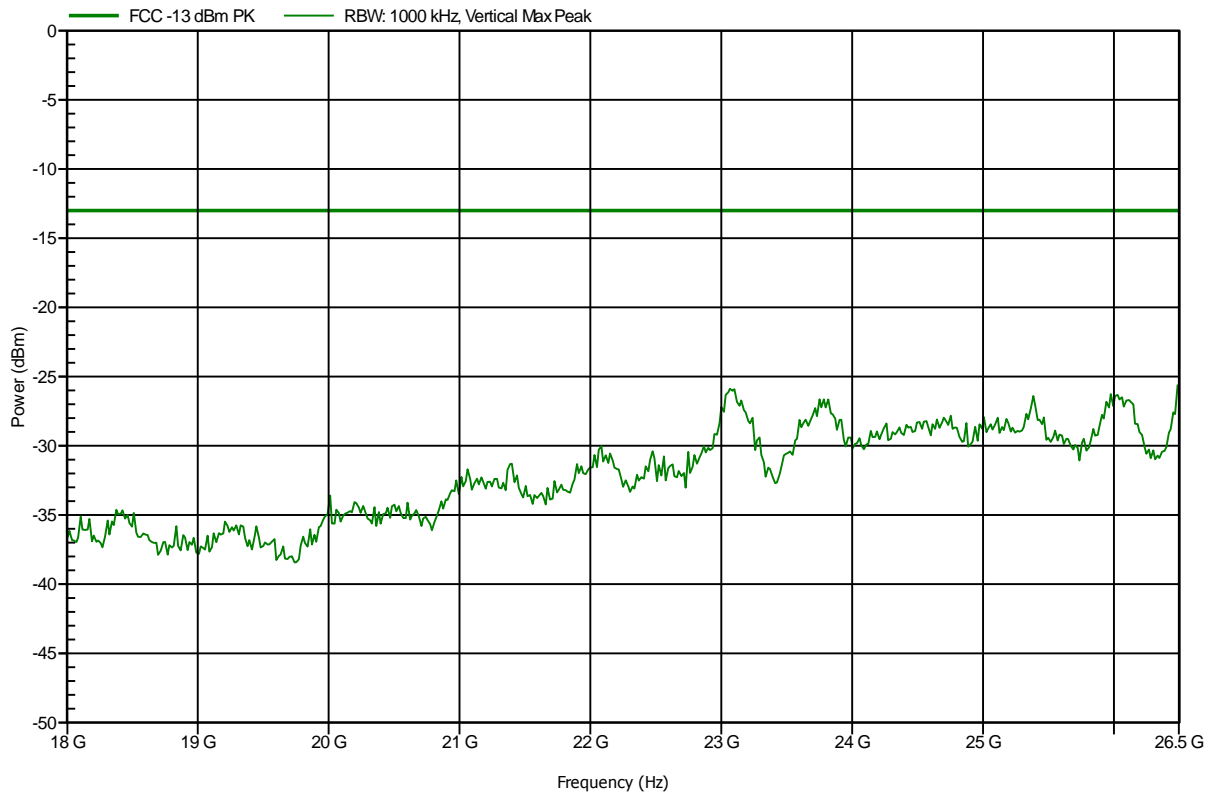


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9400; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 349

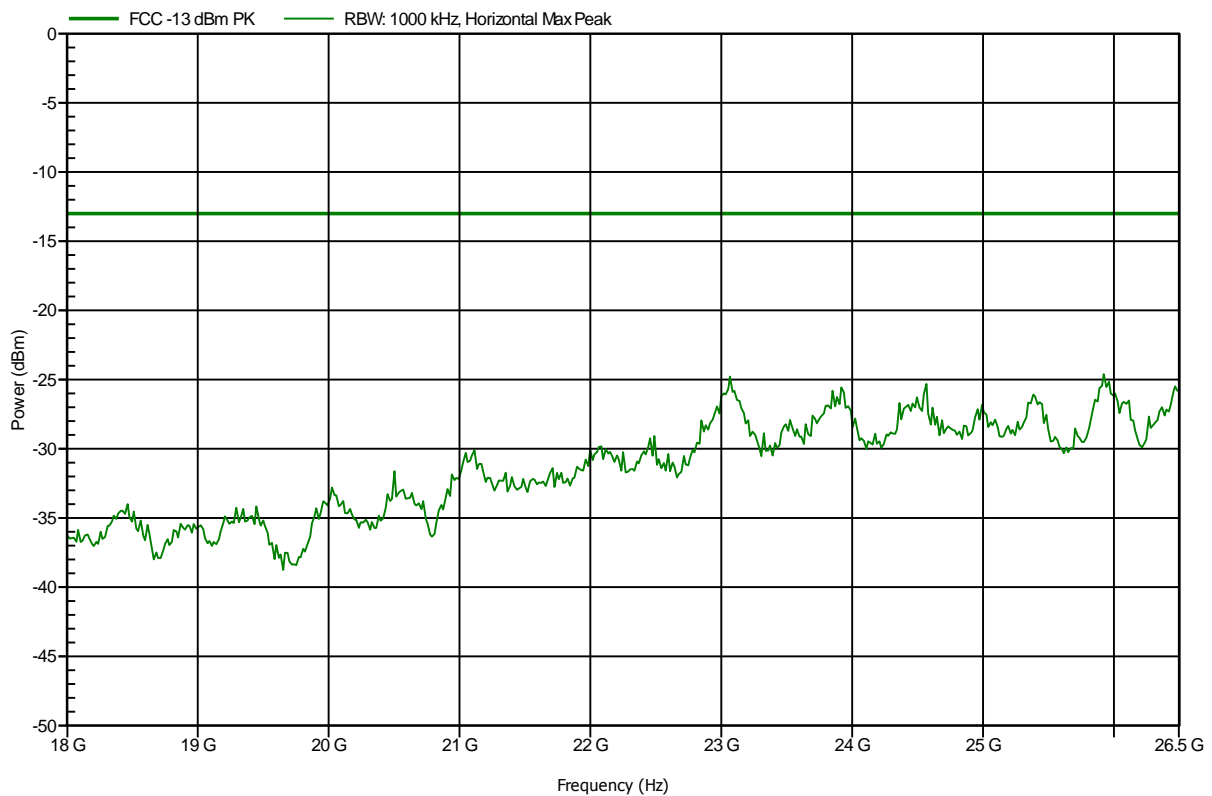


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9400; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 352

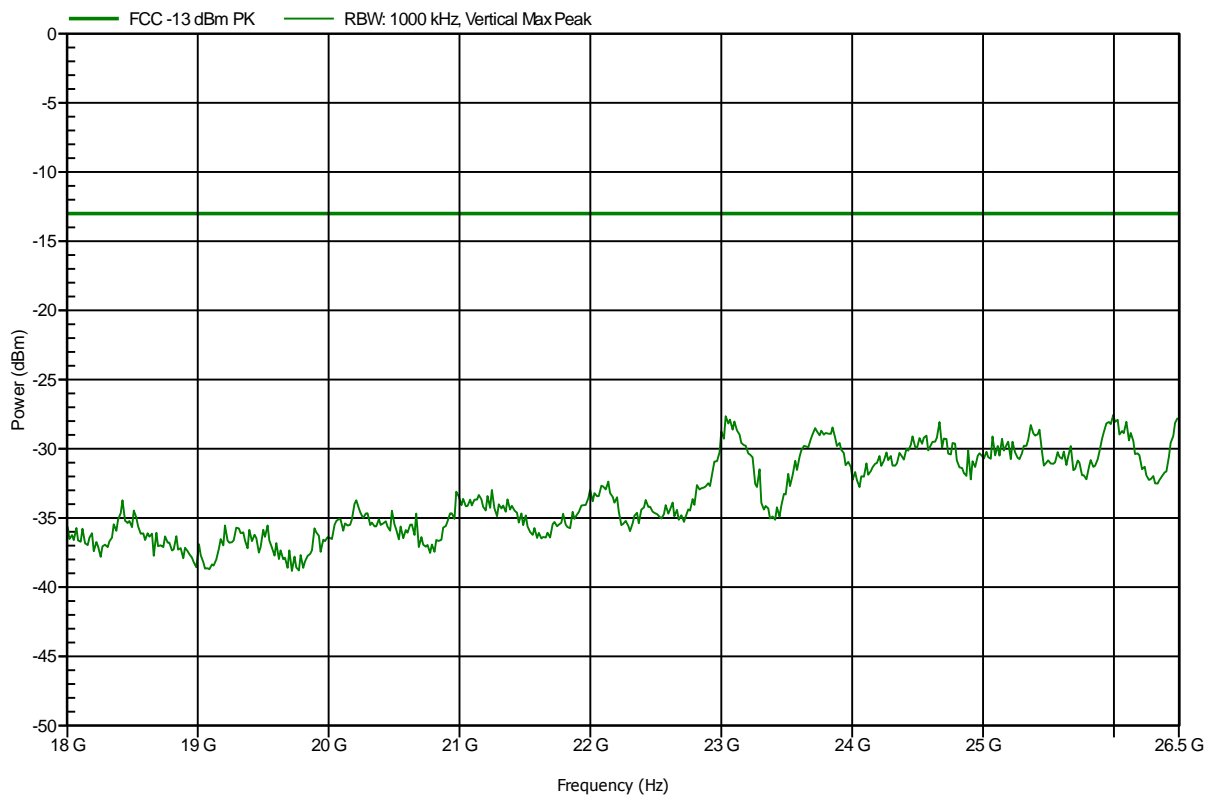


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9538; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 358

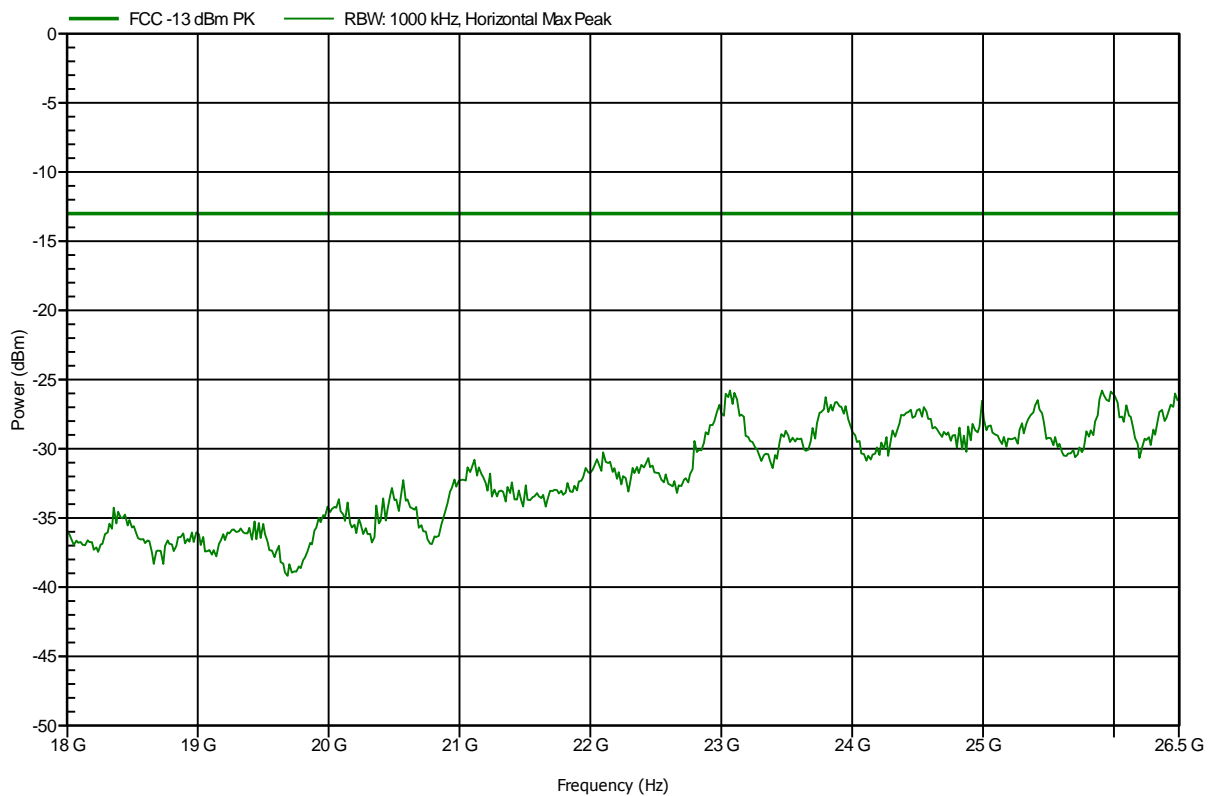


**Spurious emissions according to FCC part 24 Subpart E**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD II; CH: 9538; HSPA; Pmax; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 355

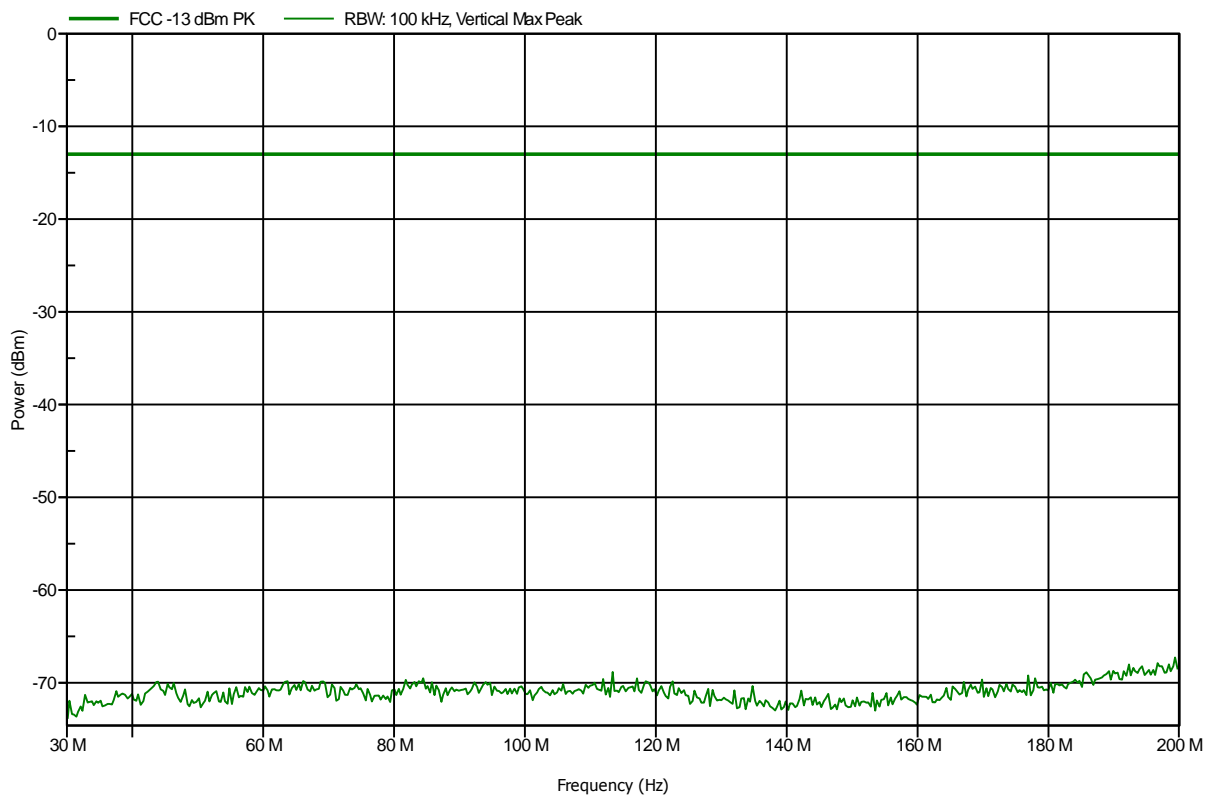


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1450; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical; worst case

Index 366



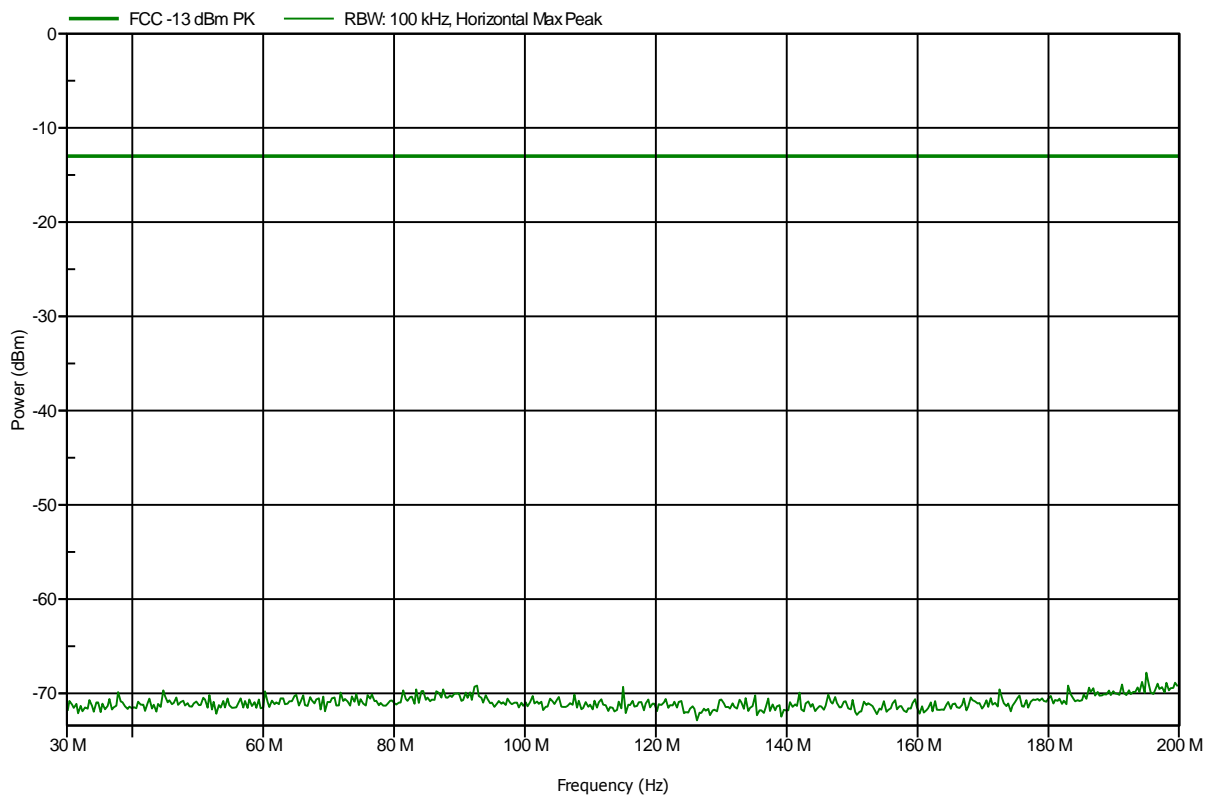


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1450; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical; worst case

Index 365

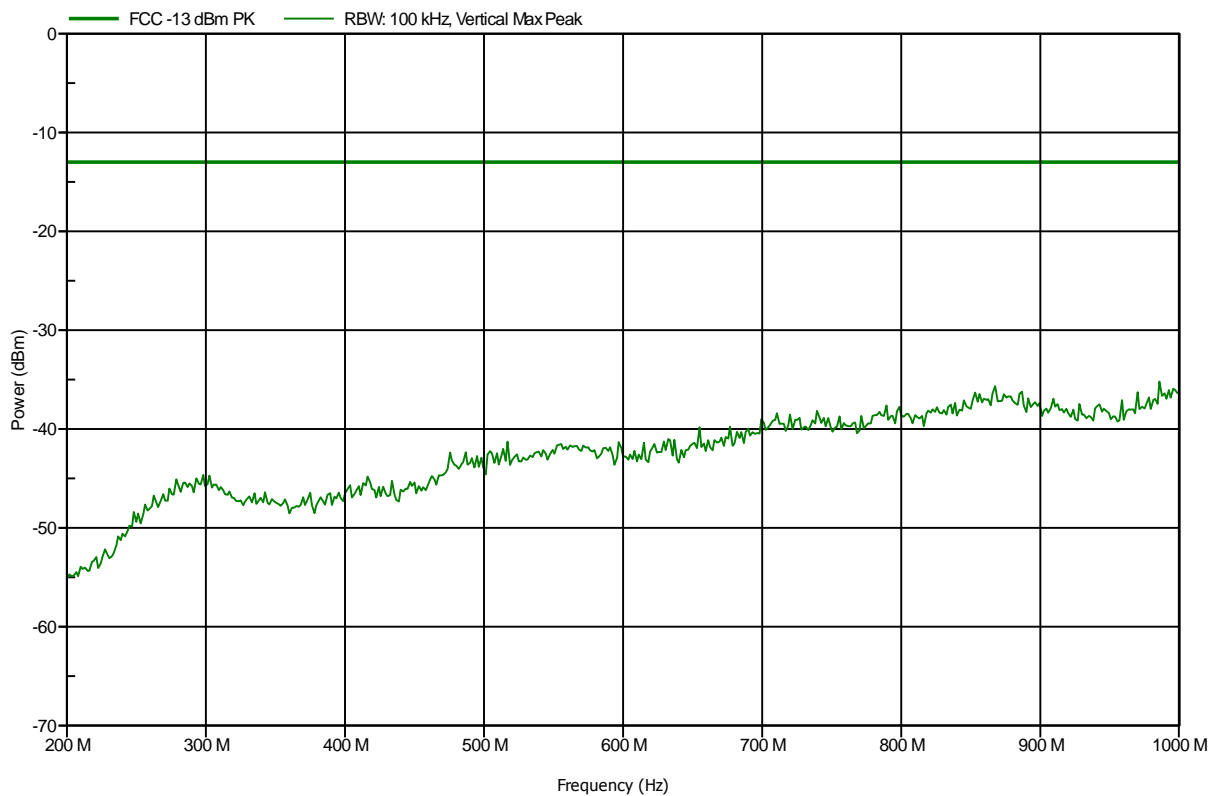


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1450; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical; worst case

Index 367

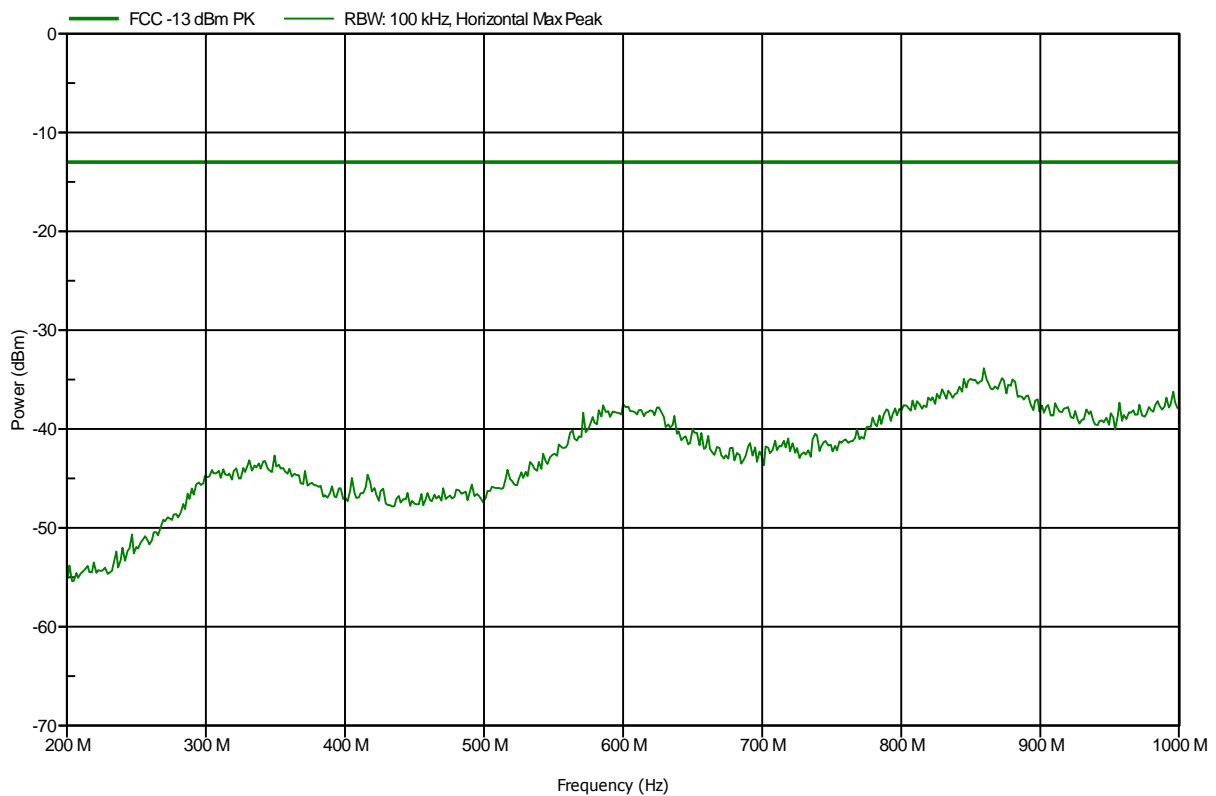


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1450; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical; worst case

Index 368

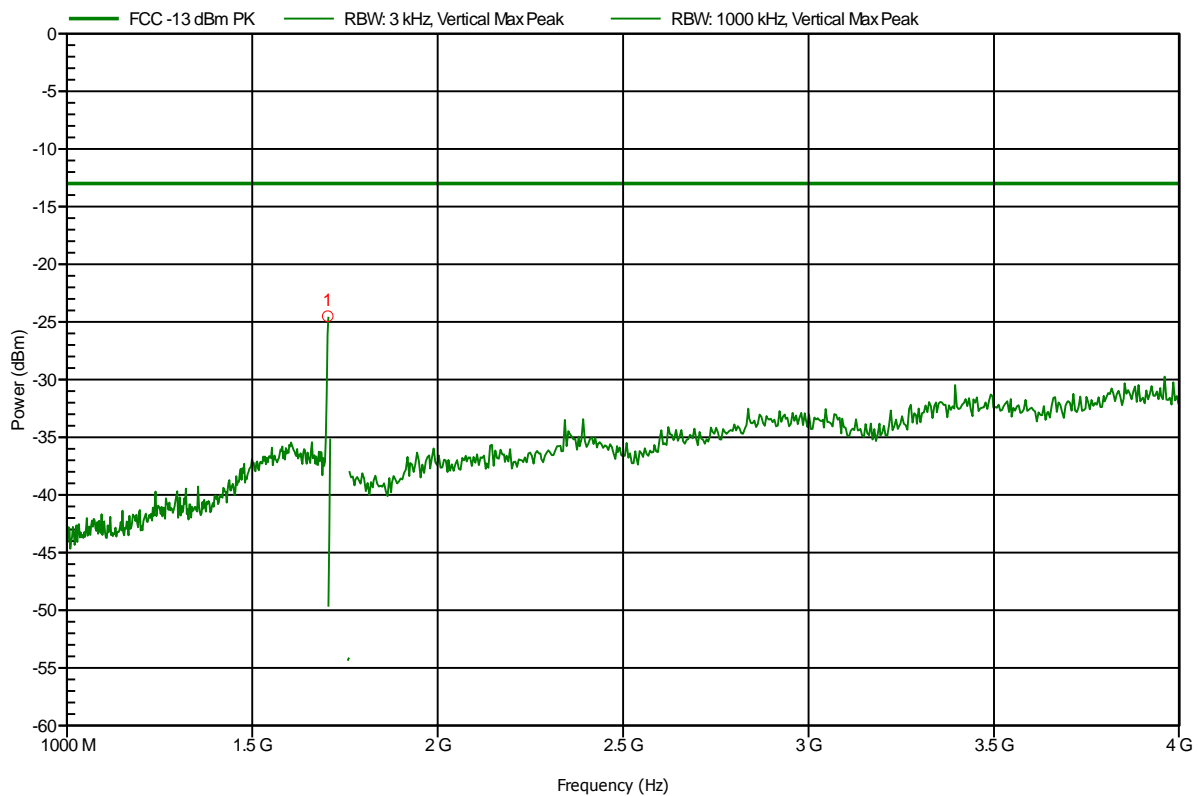


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 025, Vertical  
 Measurement distance: 3 m  
 Mode: TX; UMTS; FDD IV; CH: 1312; HSPA; Pmax; Ant: integral  
 Test Date: 2013-12-12  
 Note: EUT vertical

Index 377



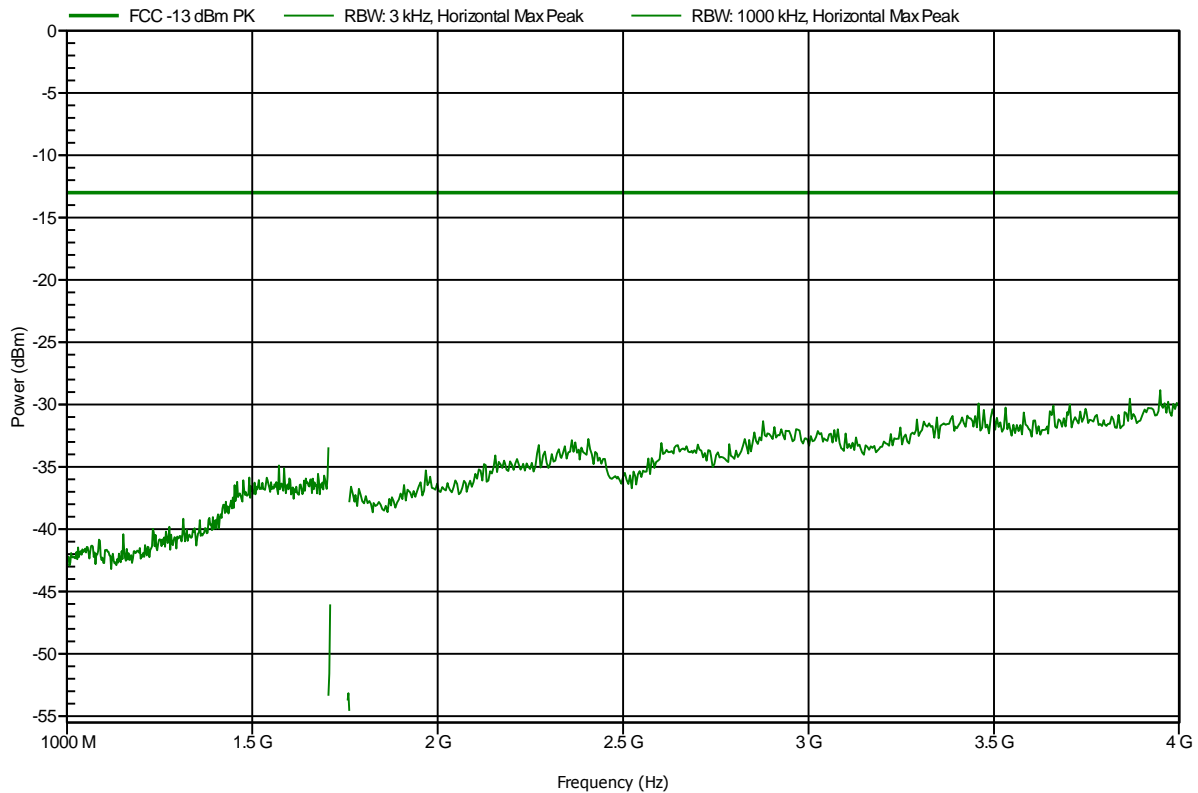
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.704 GHz	-24.5 dBm	-13 dBm	-11.5 dB	Pass

**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1312; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 381

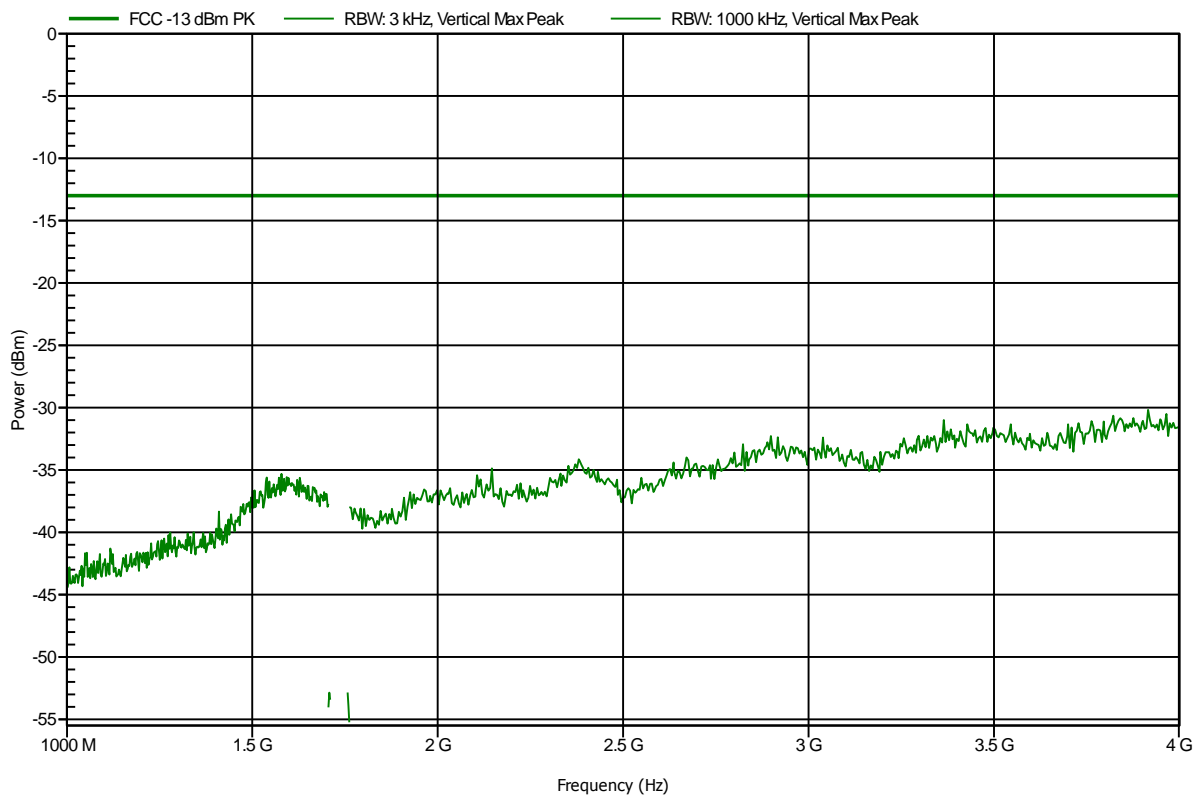


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1450; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 389

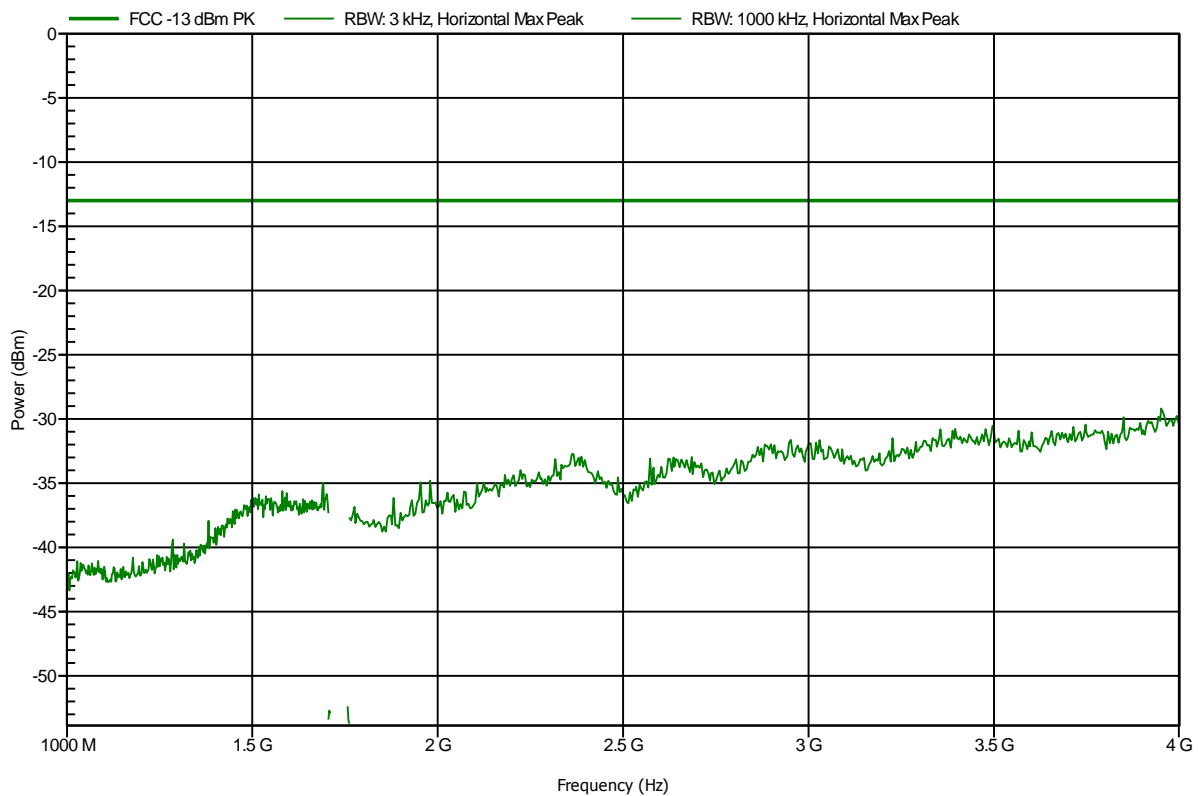


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1450; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 385

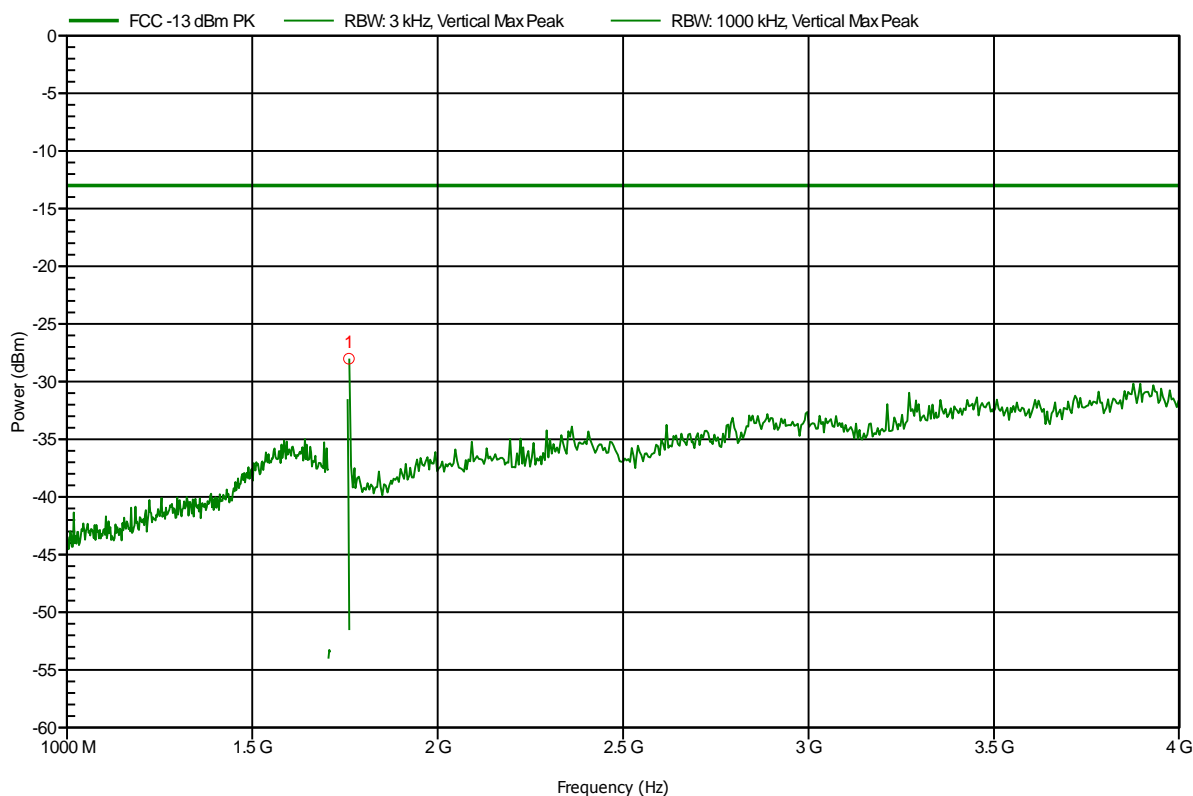


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HL 025, Vertical  
 Measurement distance: 3 m  
 Mode: TX; UMTS; FDD IV; CH: 1513; HSPA; Pmax; Ant: integral  
 Test Date: 2013-12-12  
 Note: EUT vertical

Index 373



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.761 GHz	-28 dBm	-13 dBm	-15.02 dB	Pass

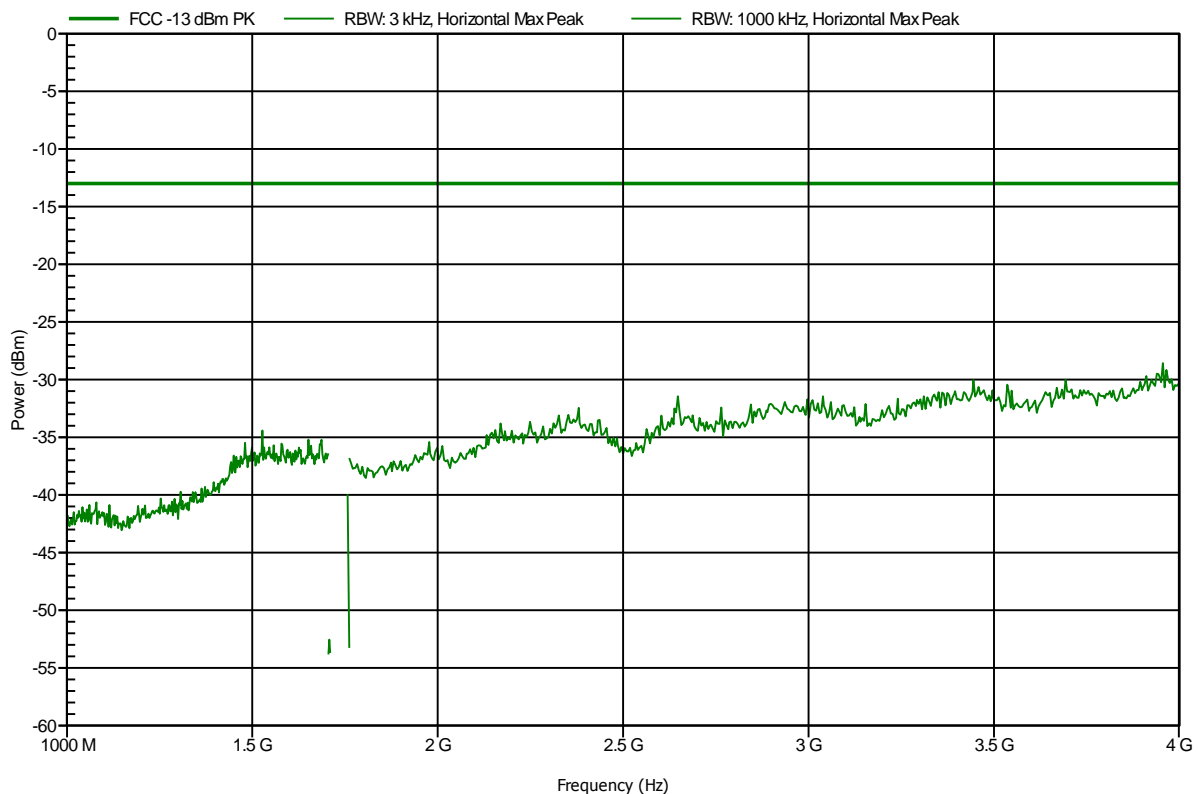


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1513; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 369

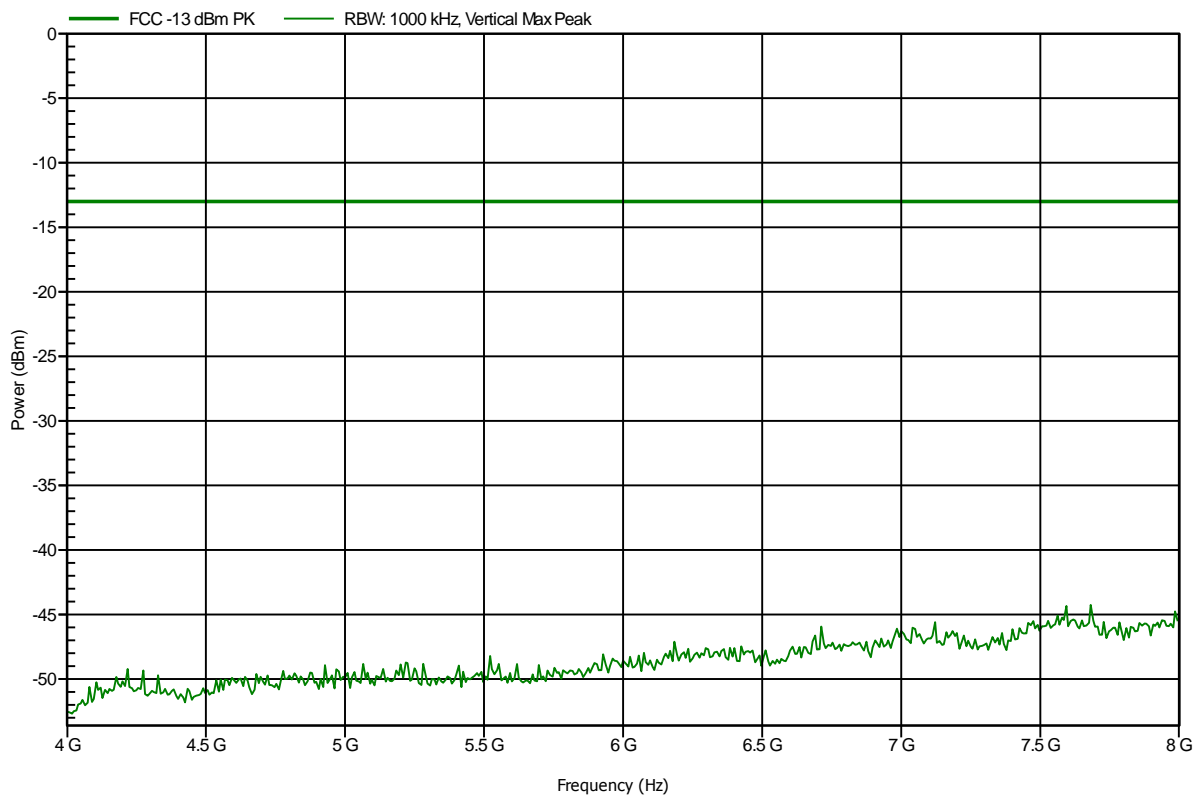


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1312; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 378

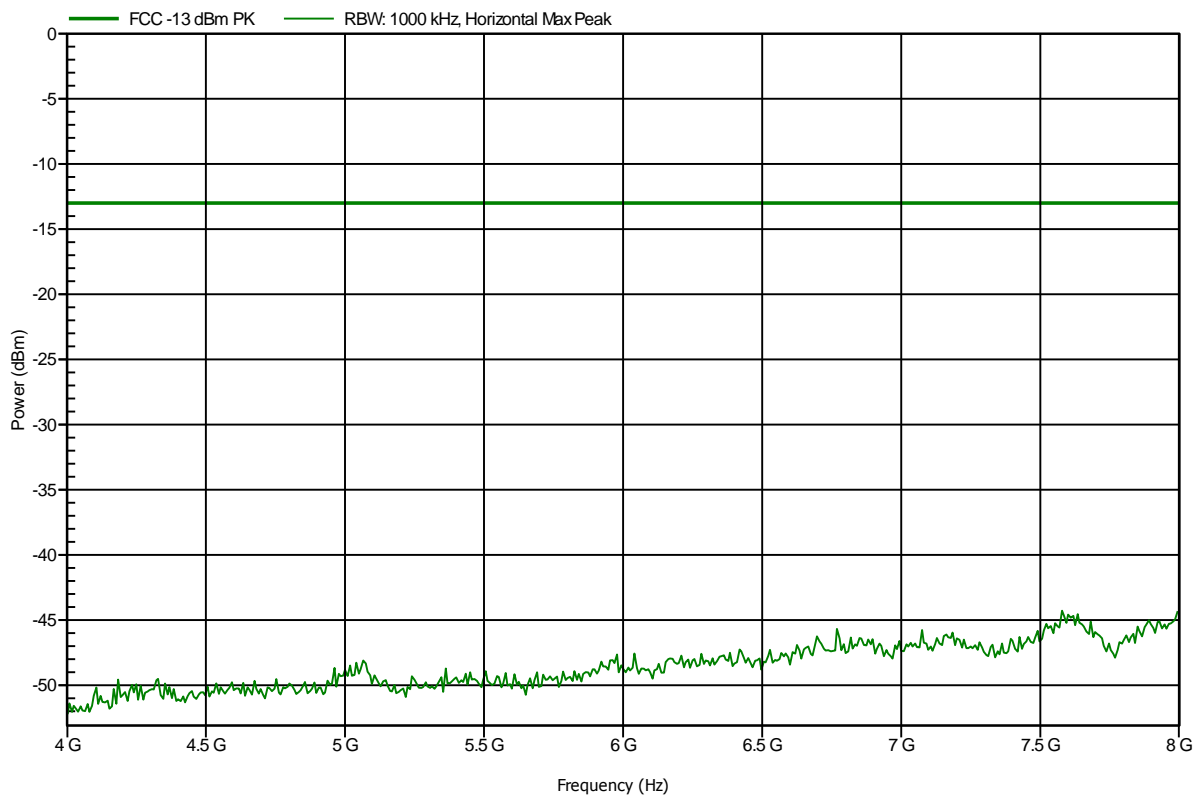


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1312; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 382

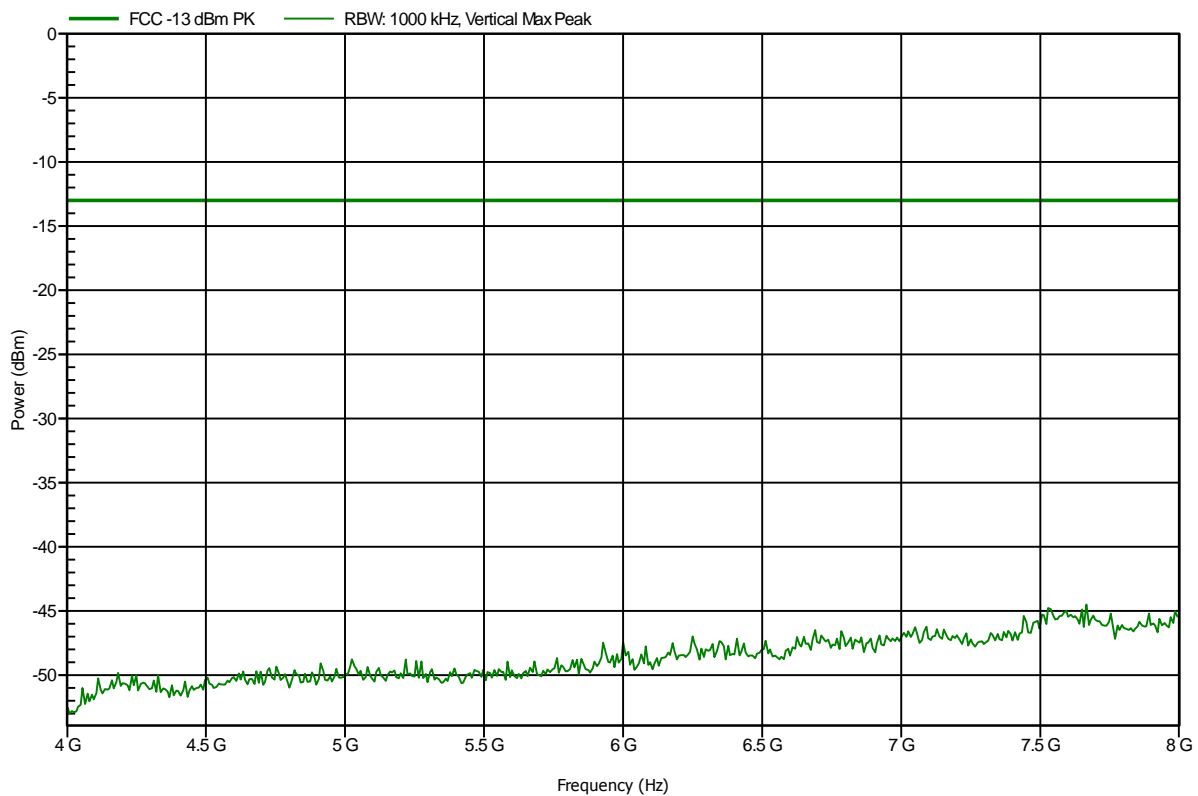


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1450; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 390

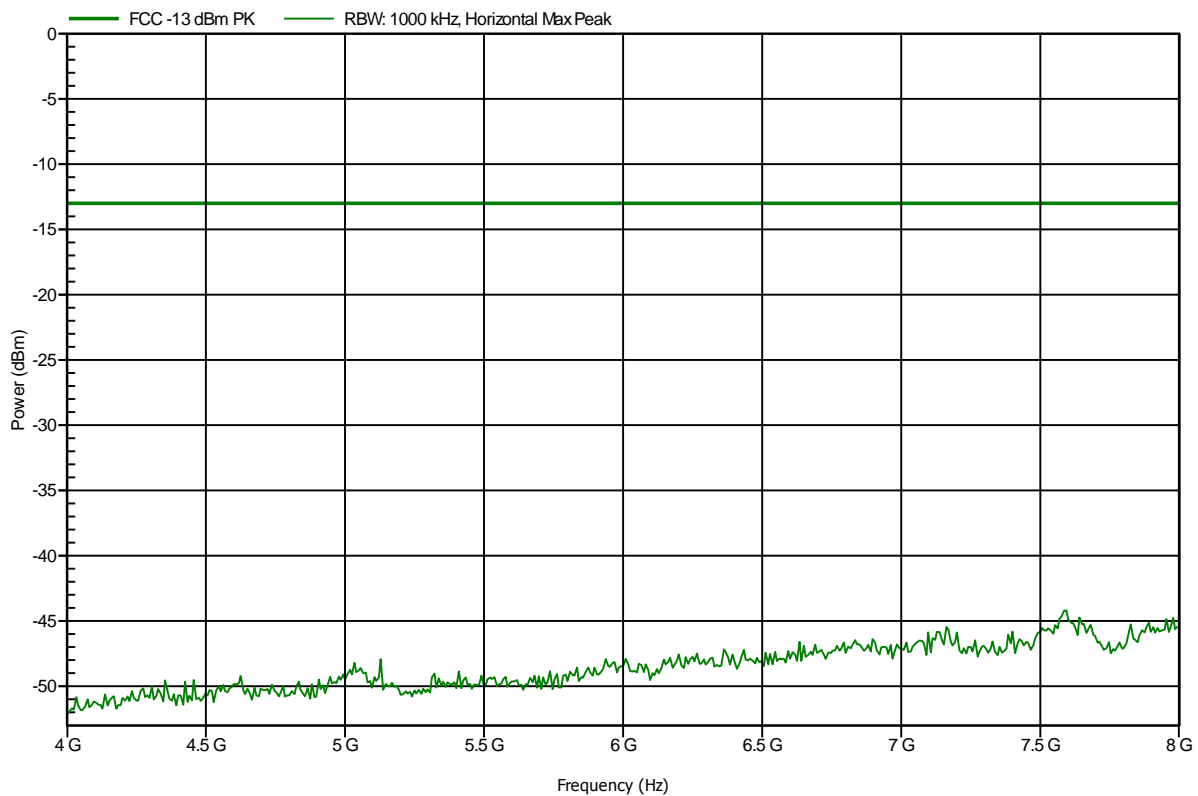


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1450; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 386

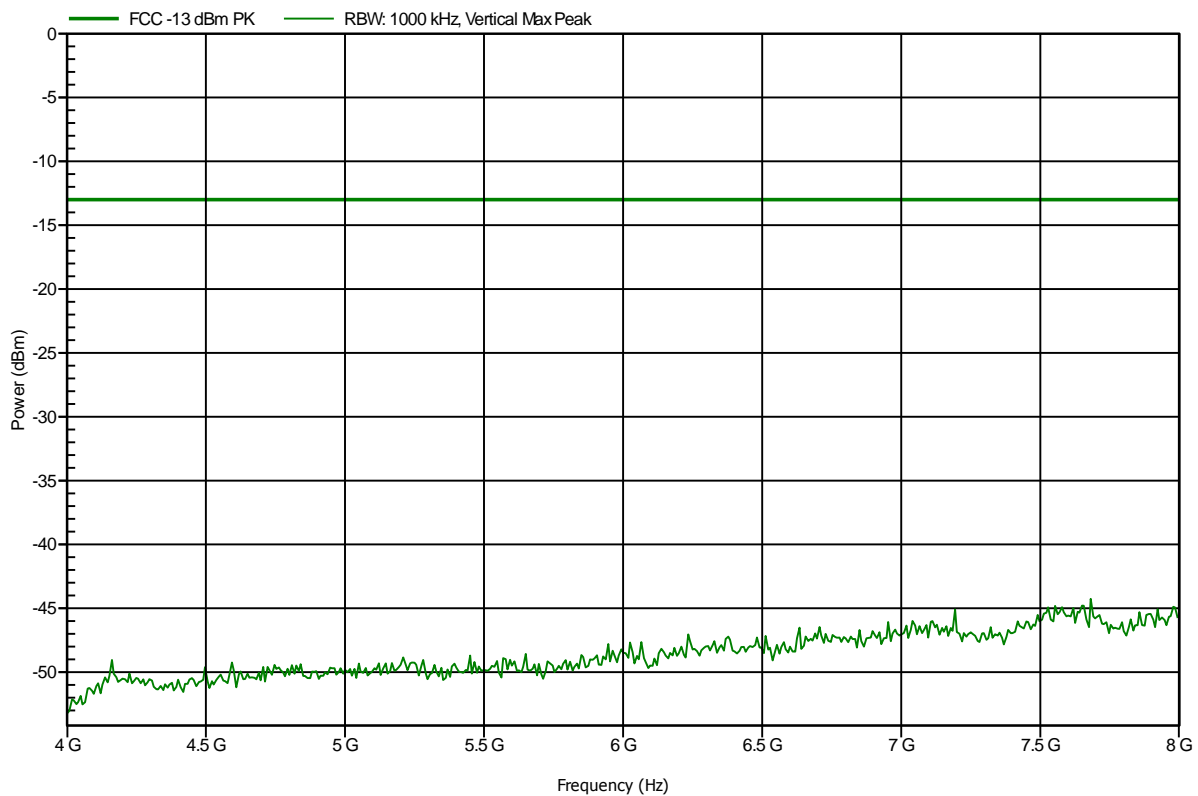


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1513; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 374

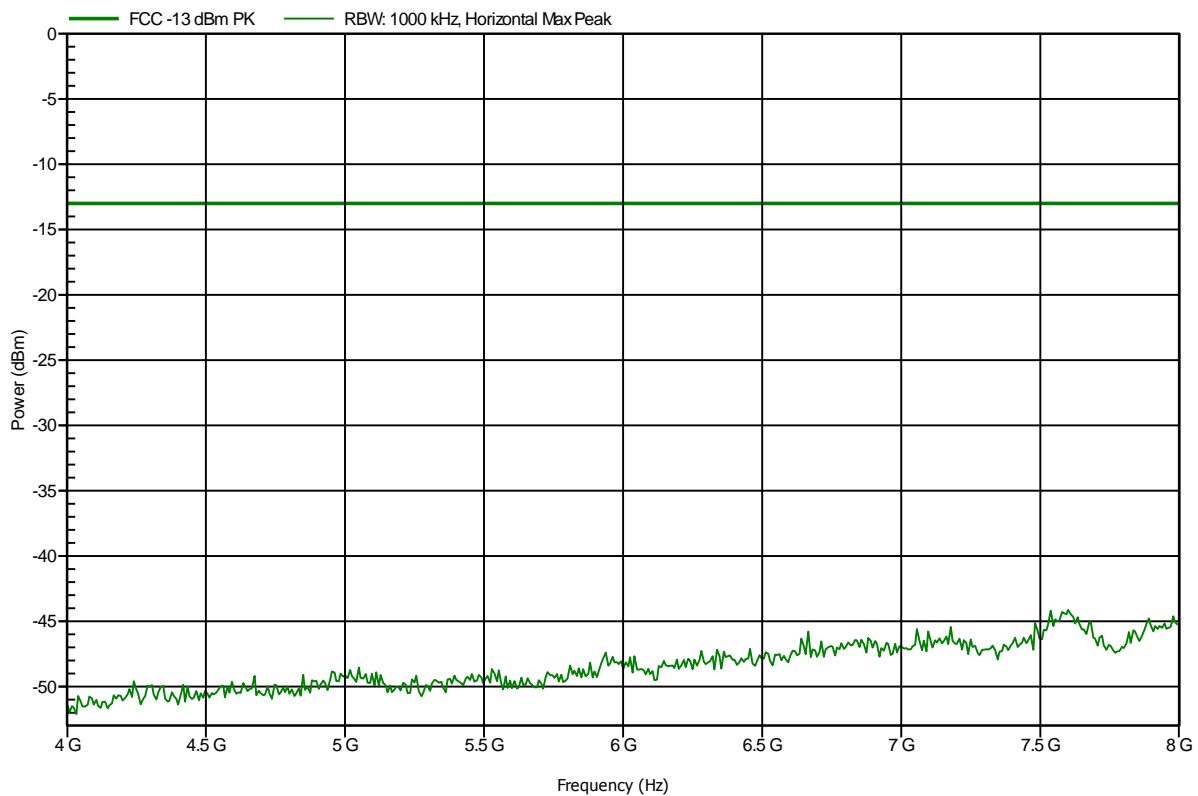


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1513; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 370

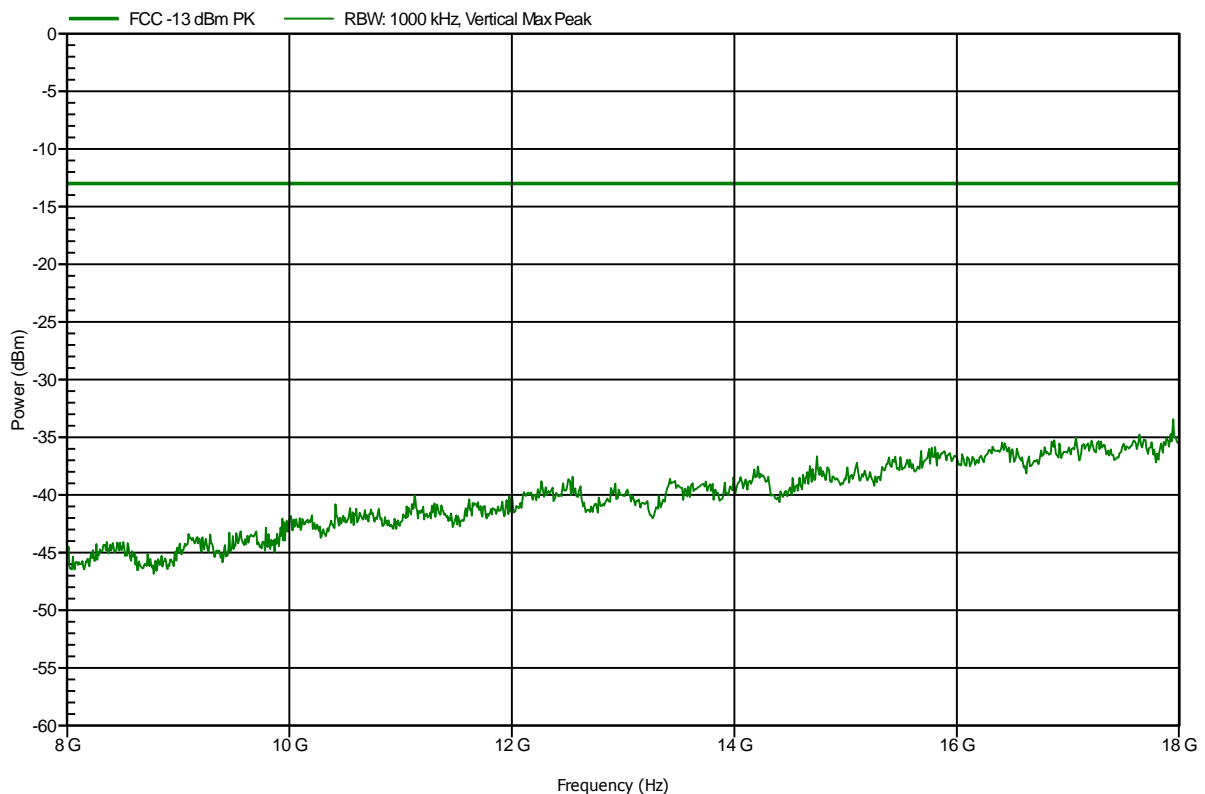


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1312; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 379



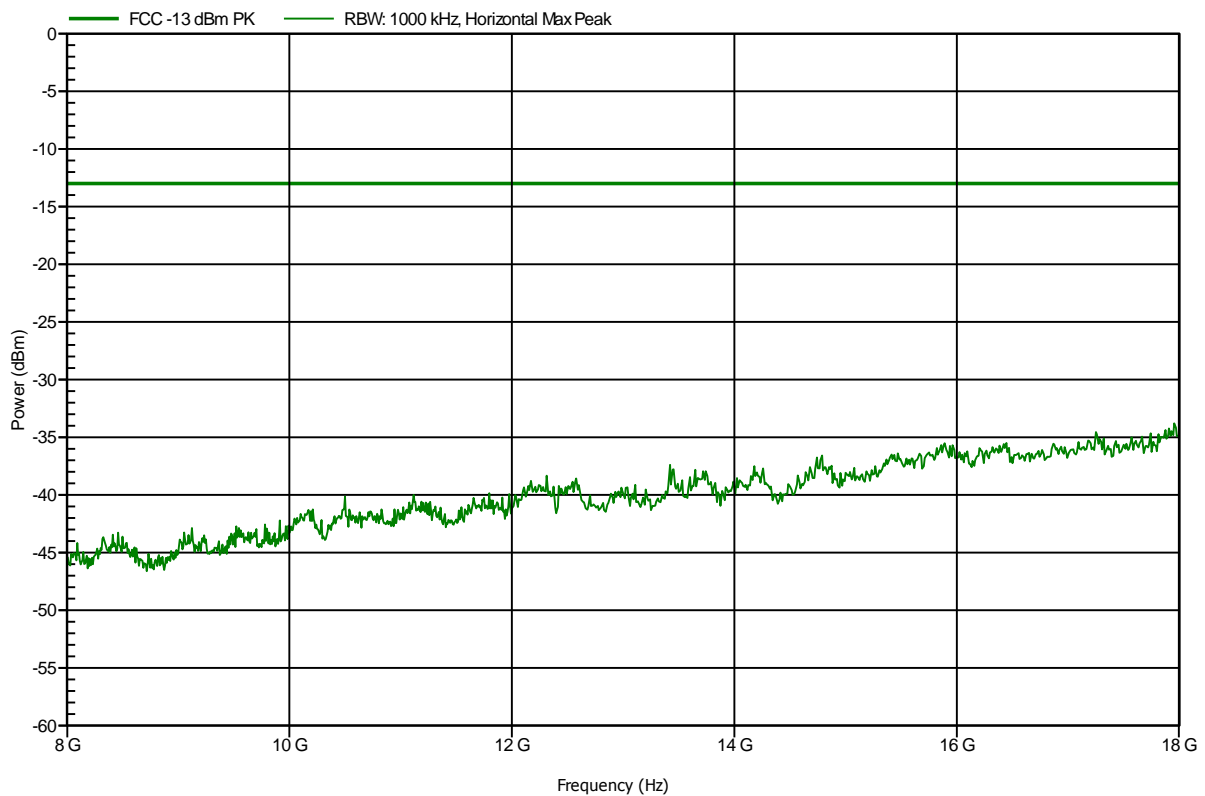


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1312; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 383

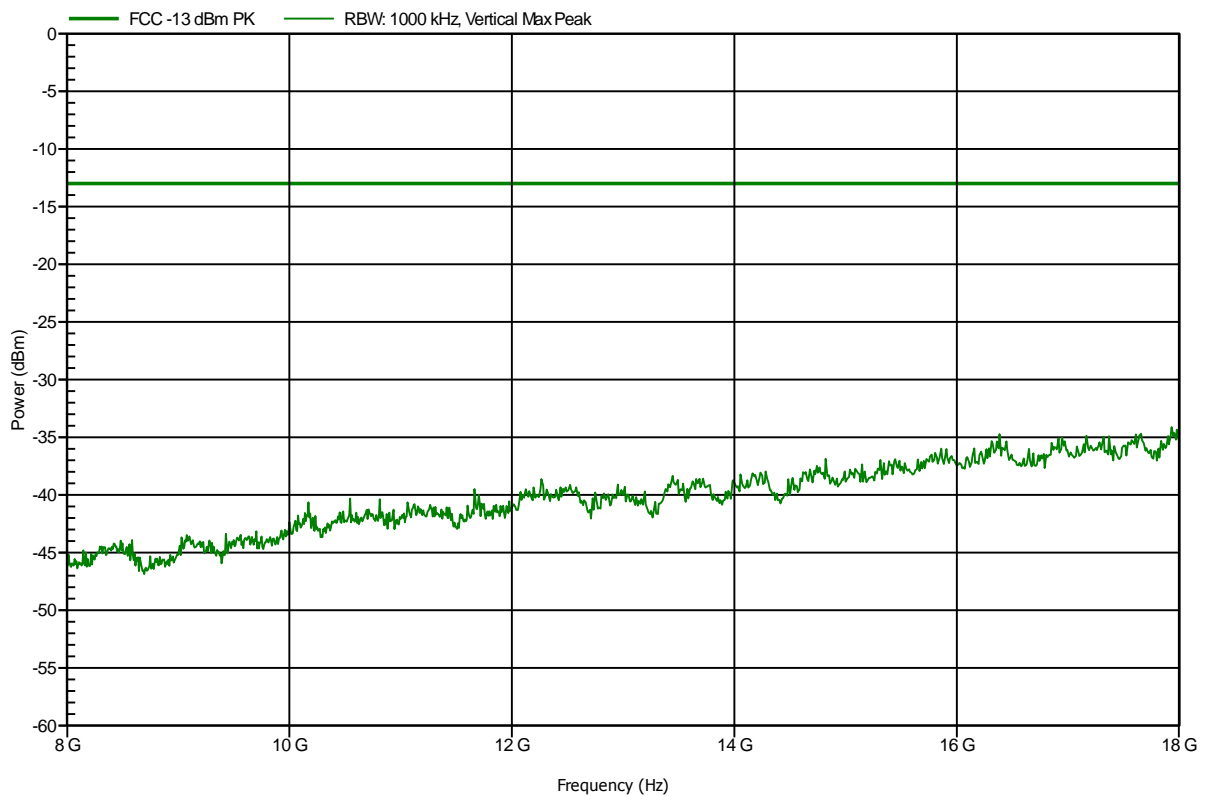


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1450; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 391

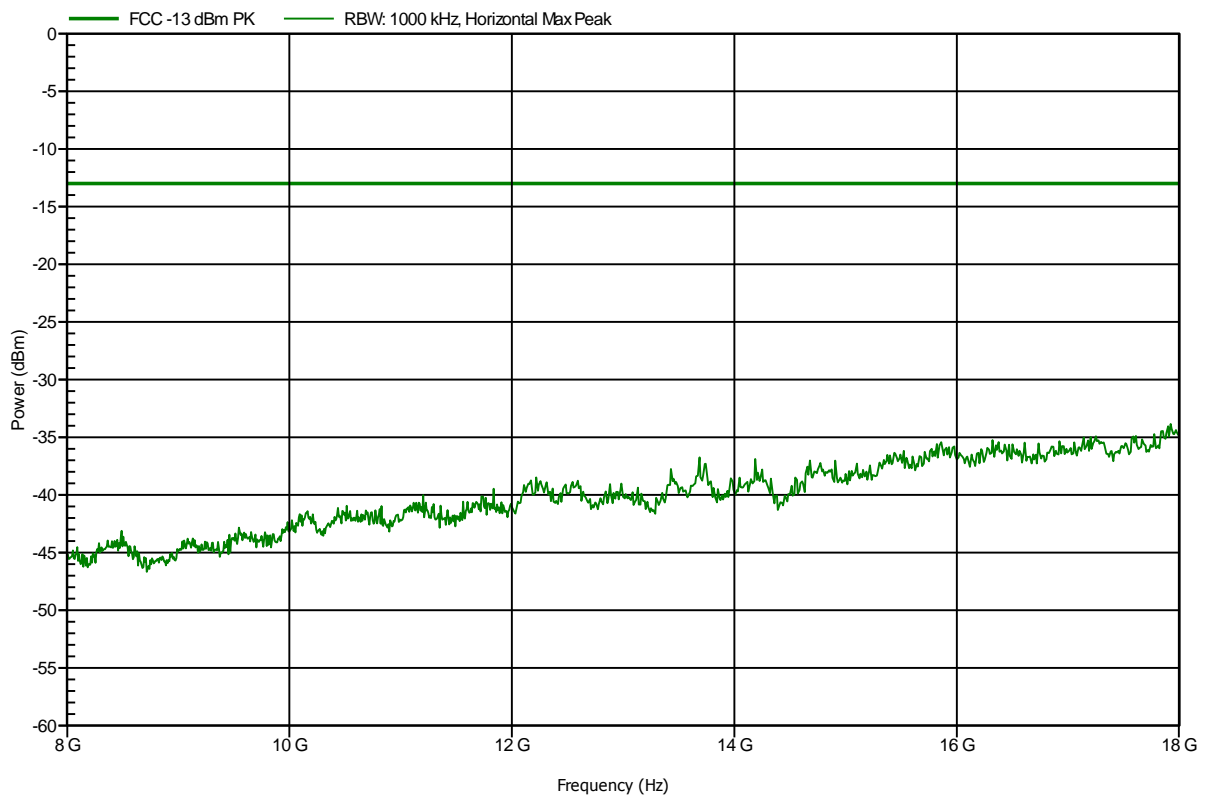


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1450; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 387

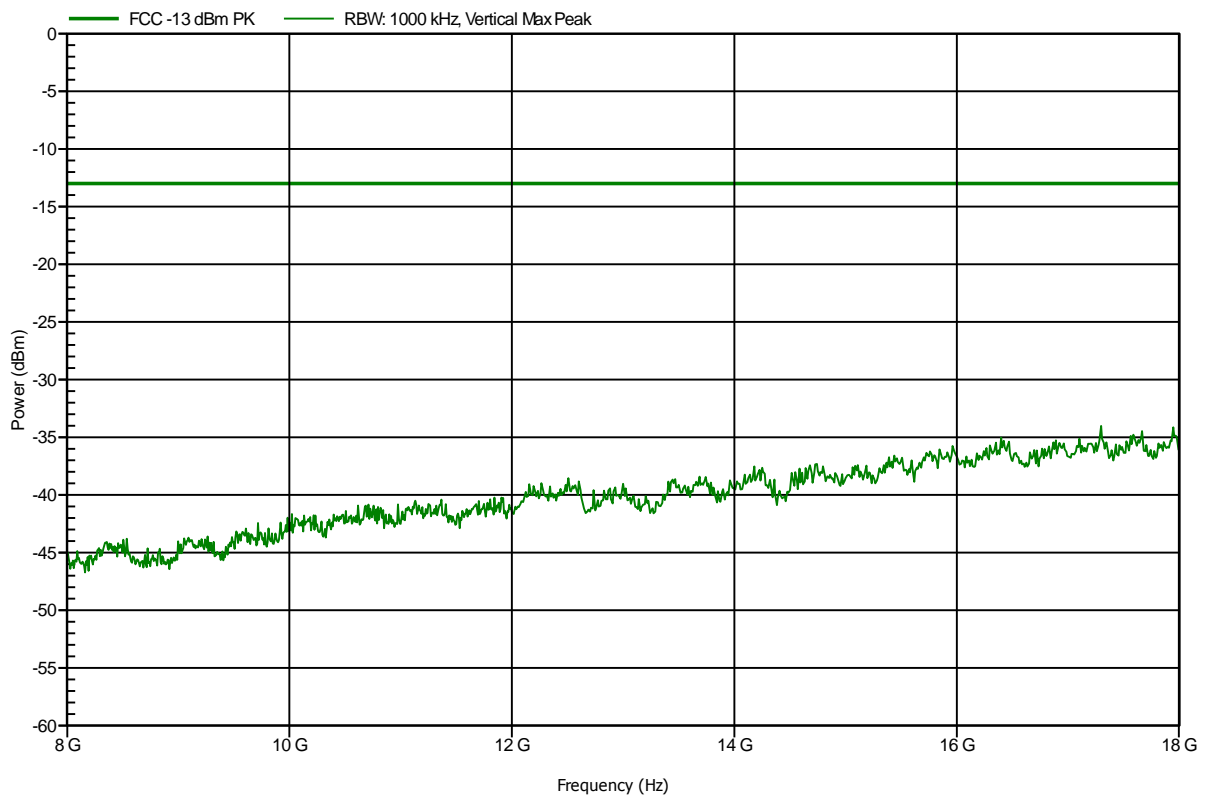


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1513; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 375

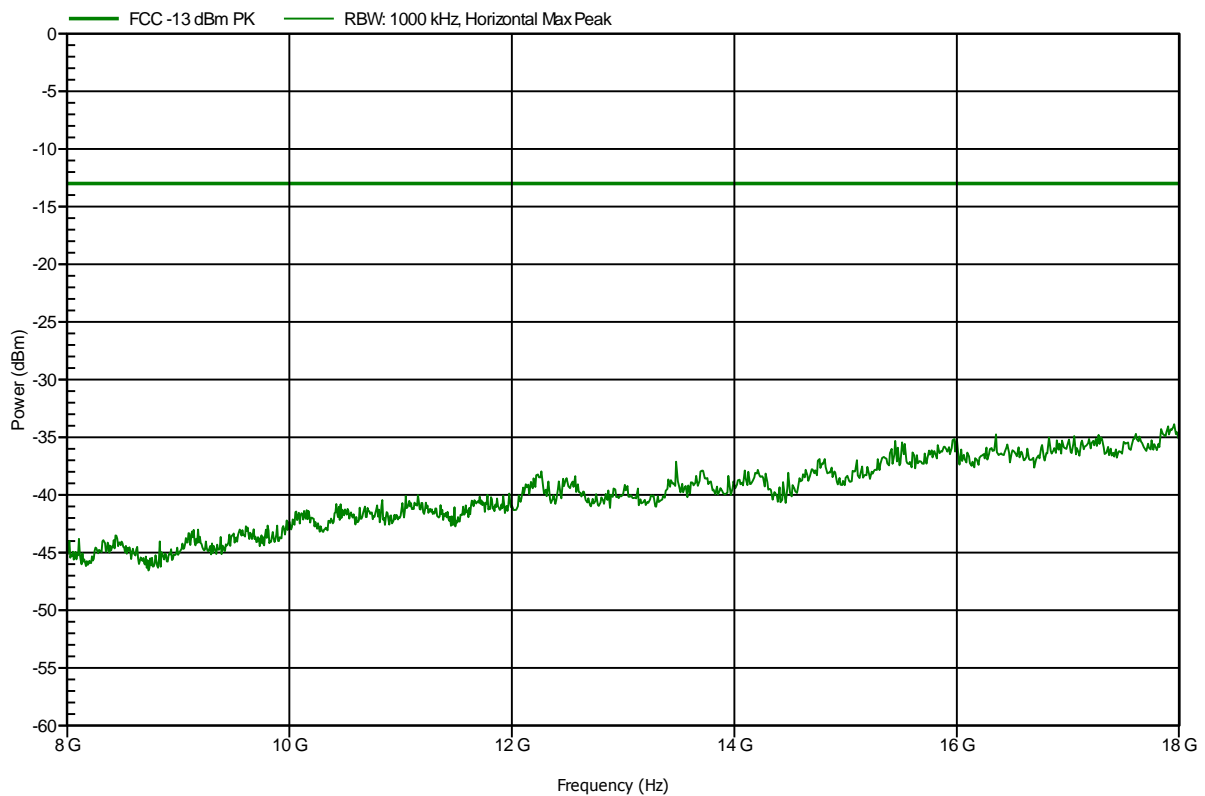


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1513; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 371

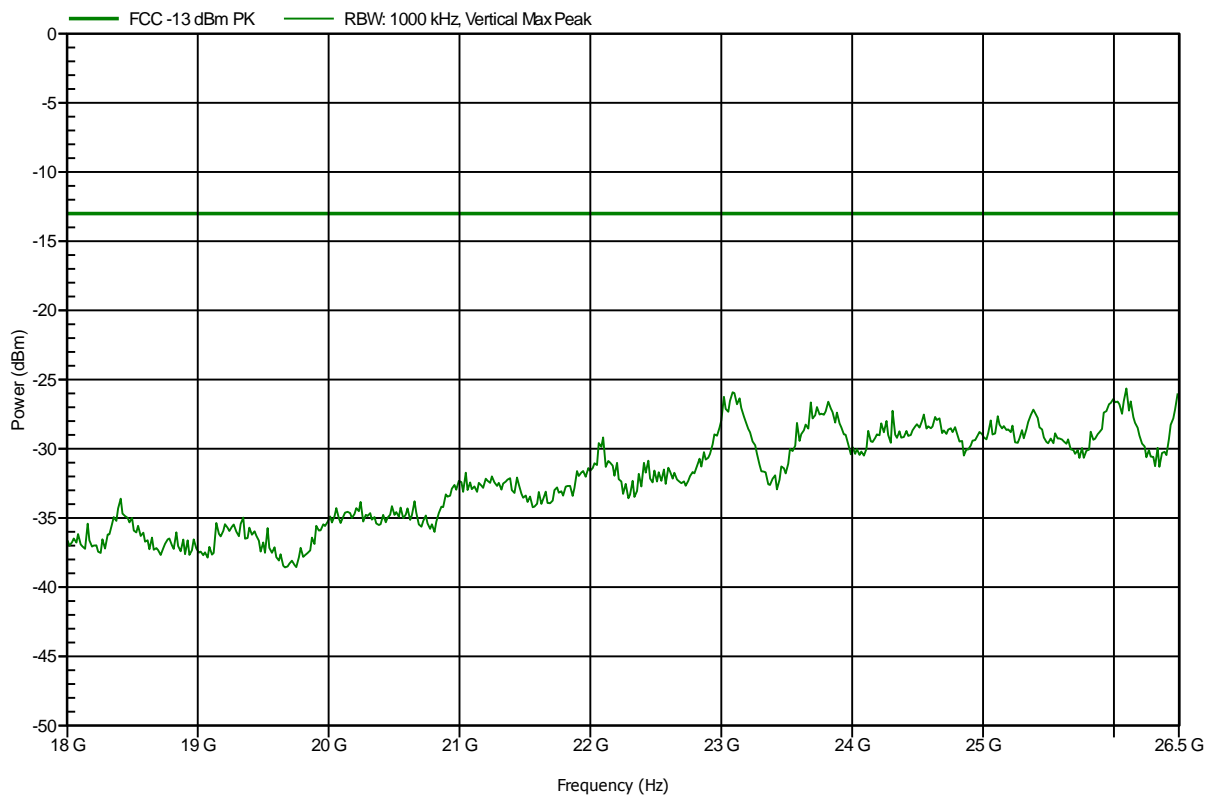


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1312; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 380

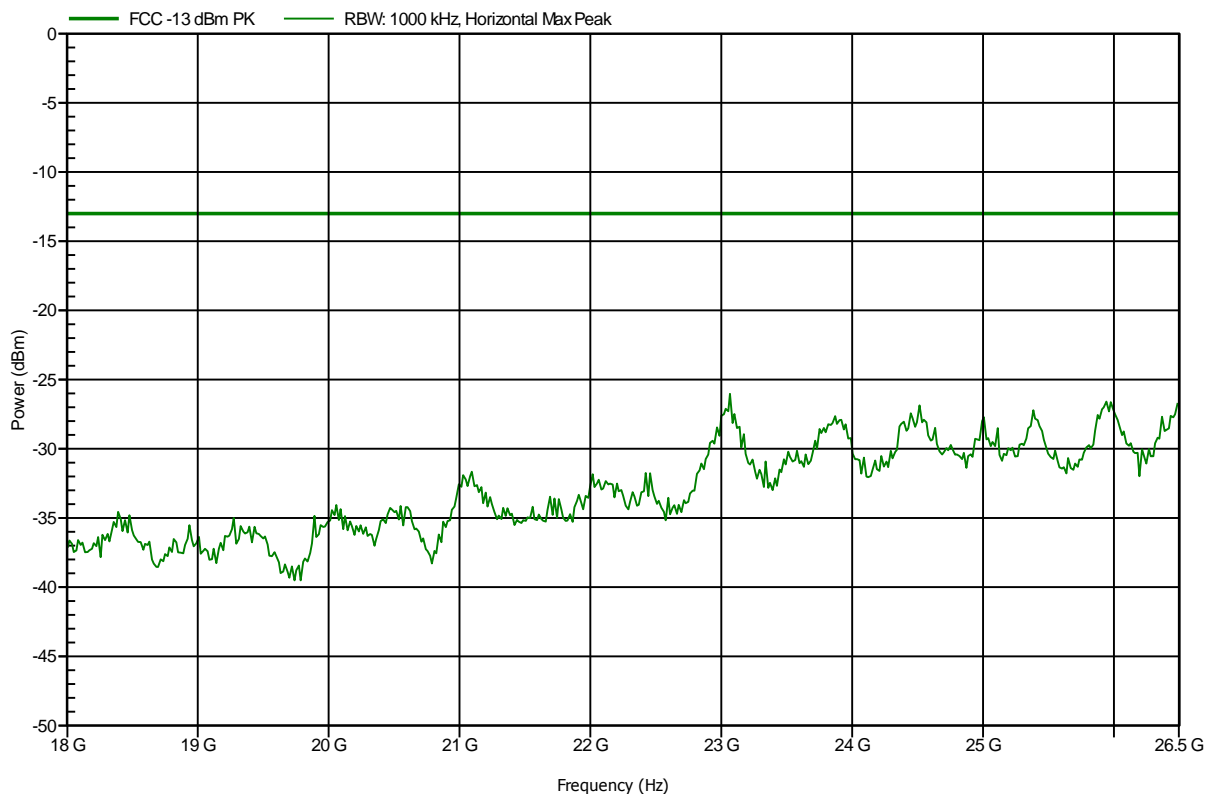


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1312; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 384

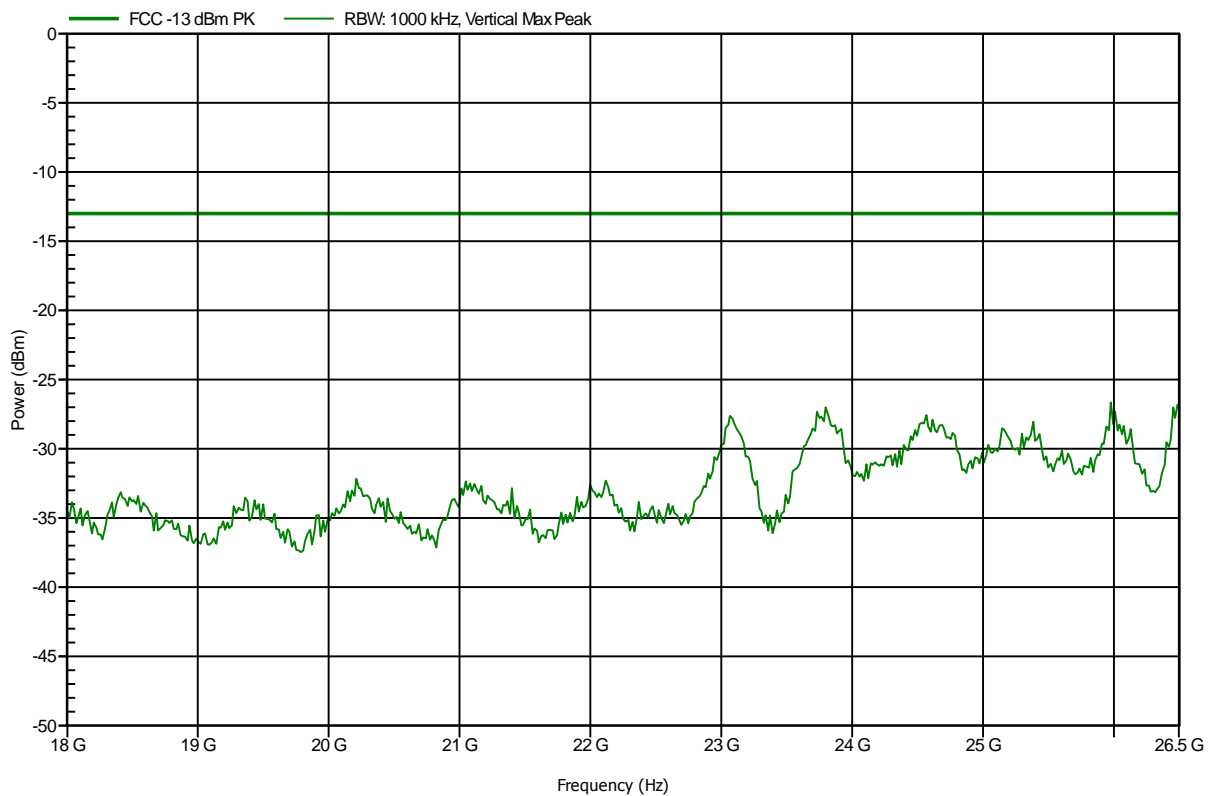


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1450; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 392



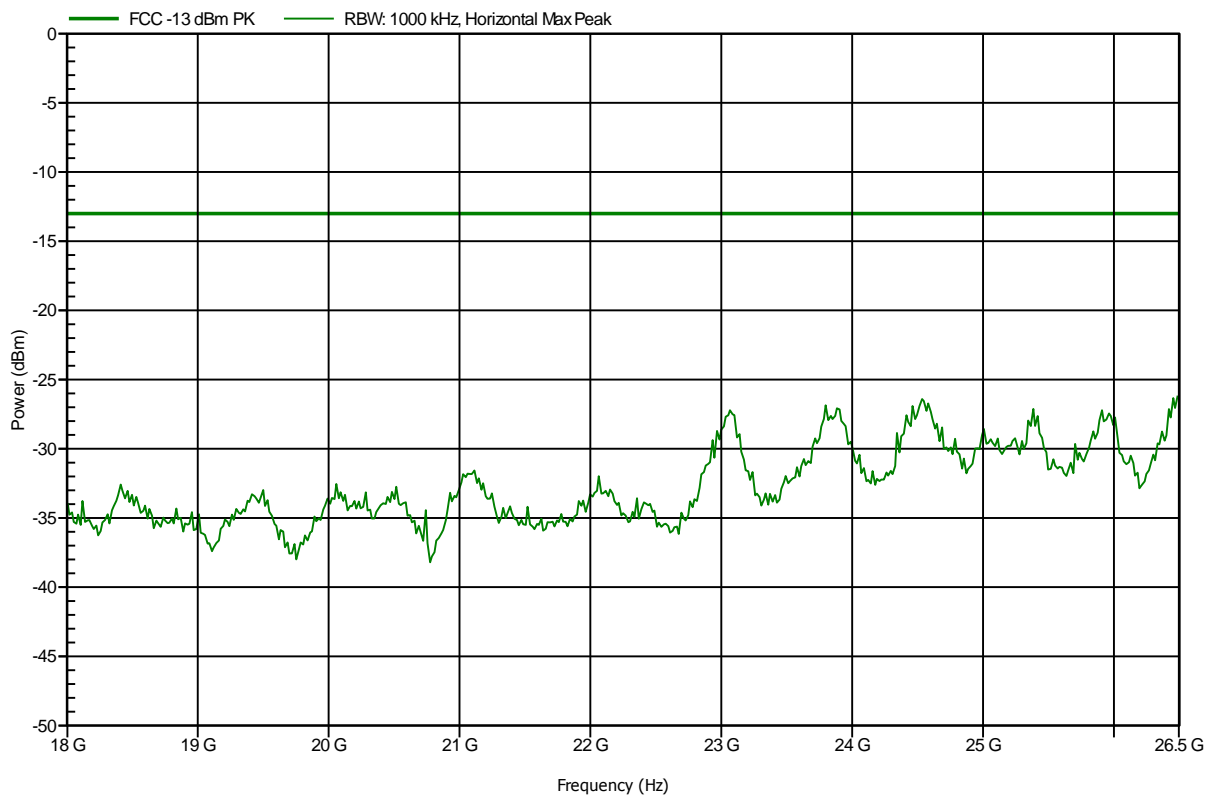


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1450; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 388

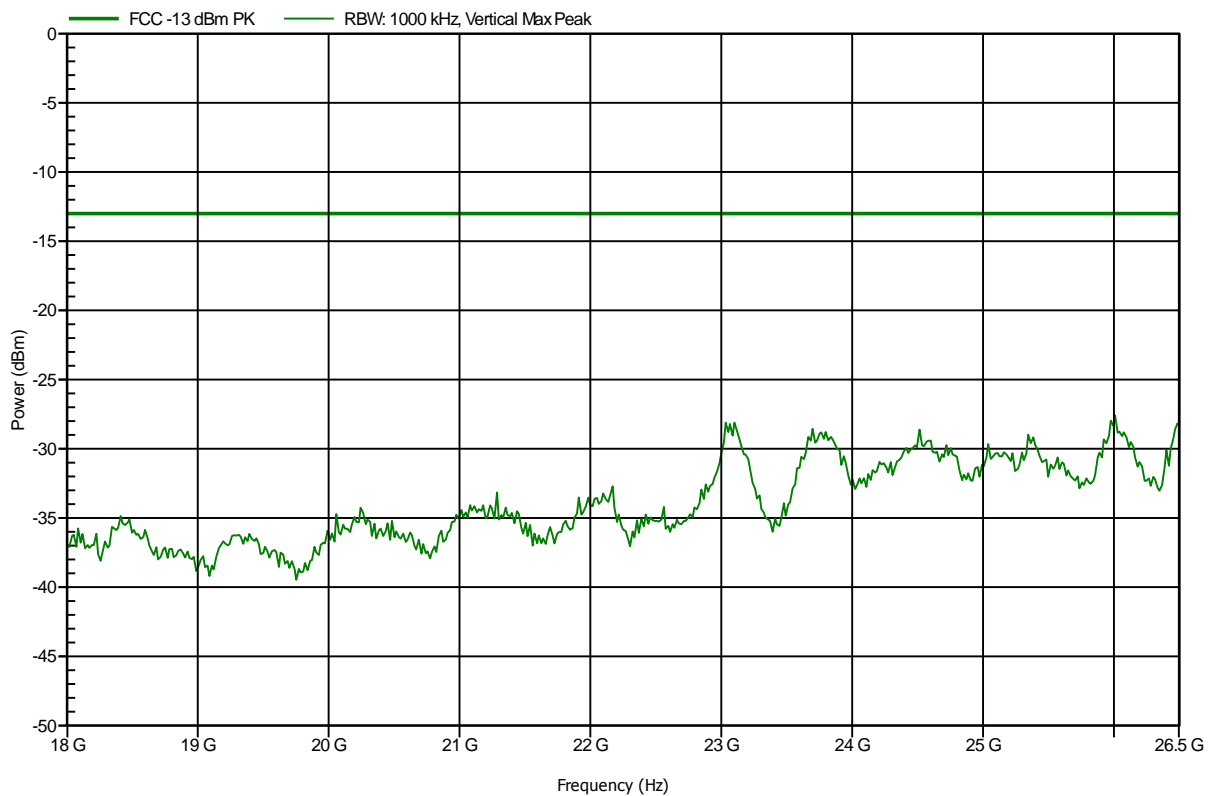


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1513; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 376

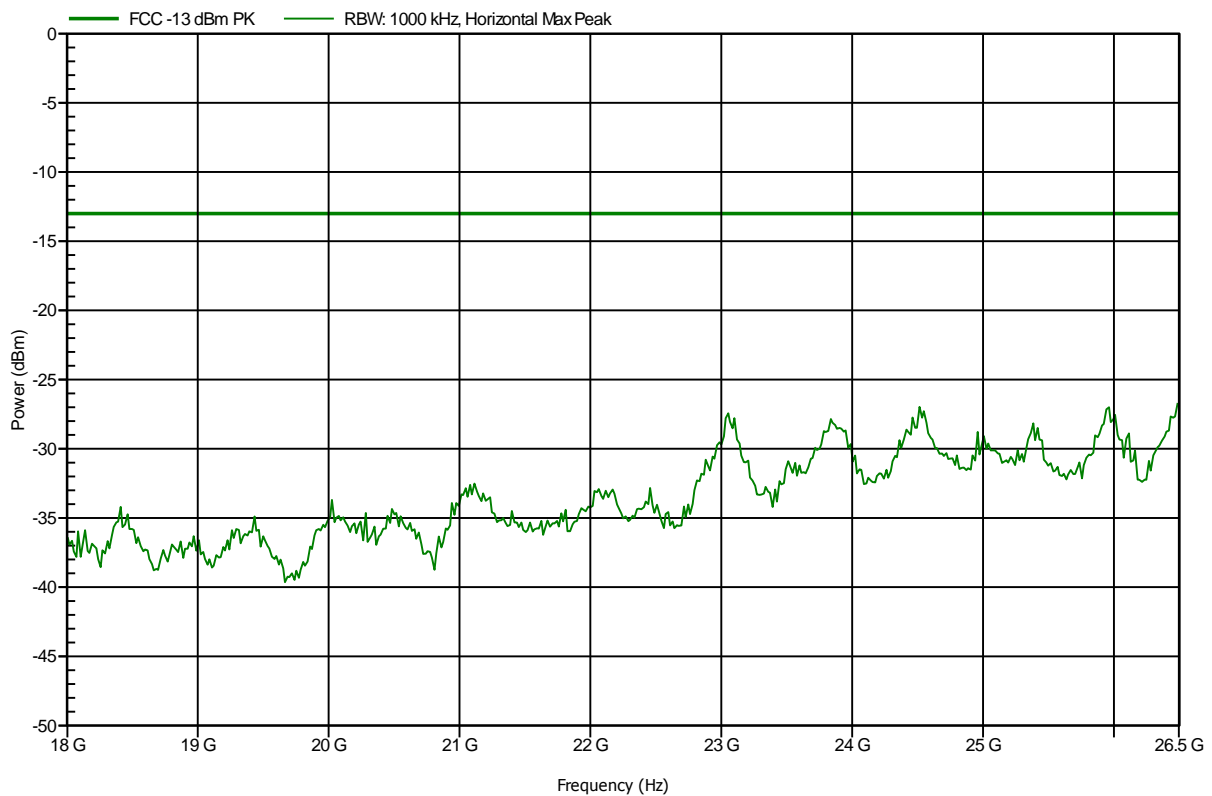


**Spurious emissions according to FCC part 27 Subpart C**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; UMTS; FDD IV; CH: 1513; HSPA; Pmax; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 372



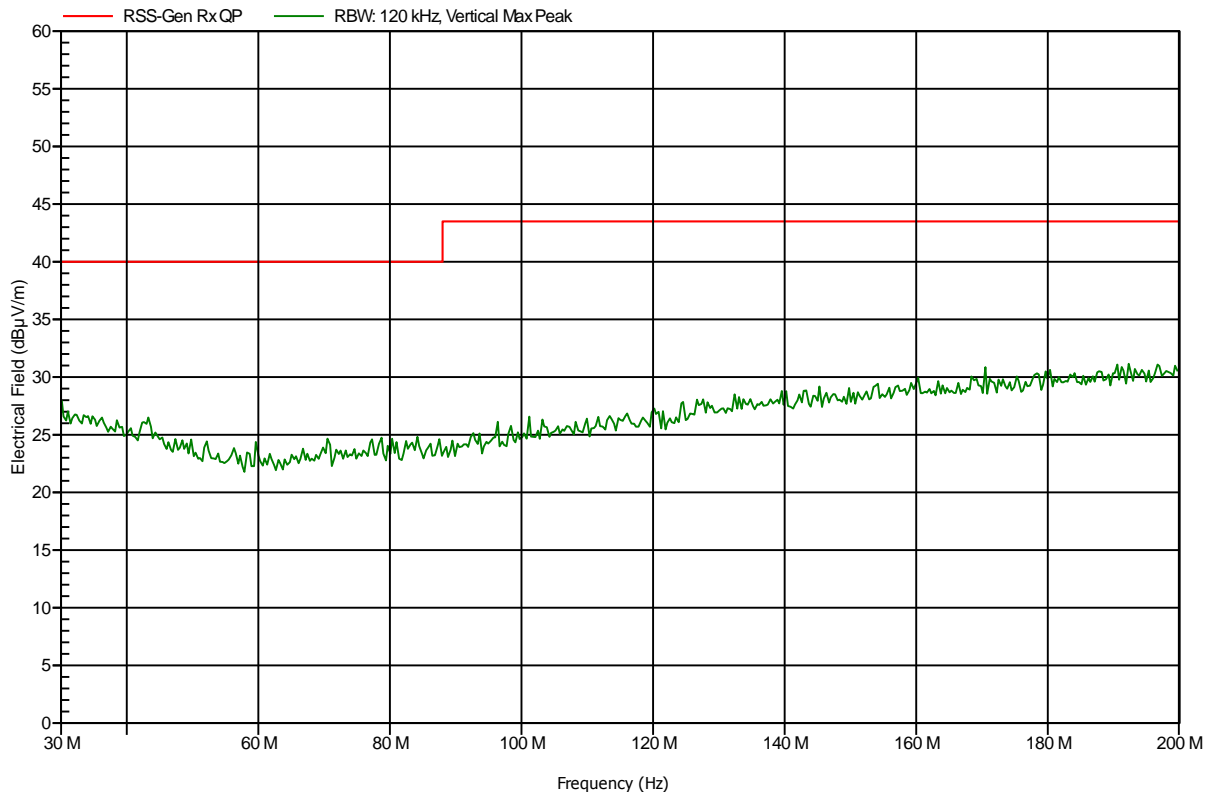
## ANNEX B Receiver radiated spurious emissions

### Spurious emissions according to IC RSS-132

Project number: G0M-1309-3226

Manufacturer: Biotronik SE & Co. KG  
 EUT Name: Telemonitoring System  
 Model: CardioMessenger Smart 3G  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Test Conditions: Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)  
 Antenna: Rohde & Schwarz HK 116, Vertical  
 Measurement distance: 3 m  
 Mode: RX; GPRS 850; CH: 188; RX\_Idle; Ant: integral  
 Test Date: 2013-12-10  
 Note: EUT vertical

Index 320

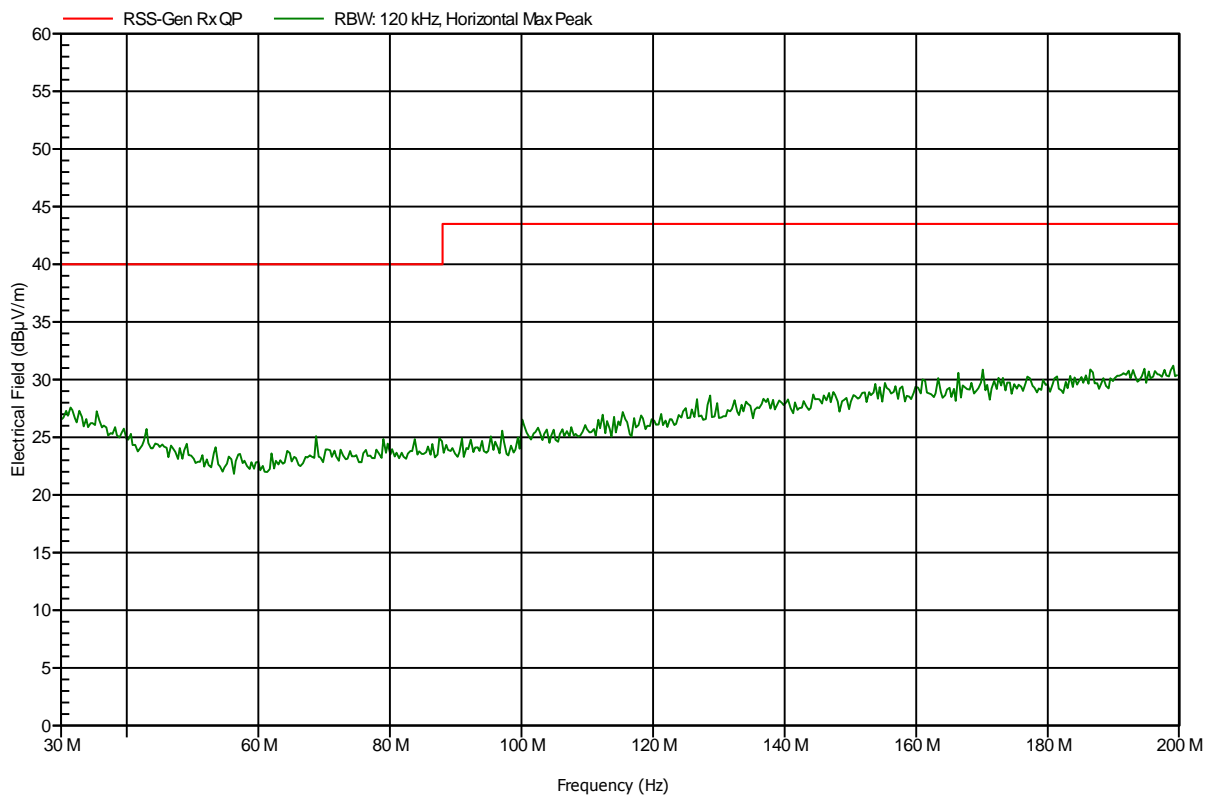


**Spurious emissions according to IC RSS-132**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	RX; GPRS 850; CH: 188; RX_Idle; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical

Index 321

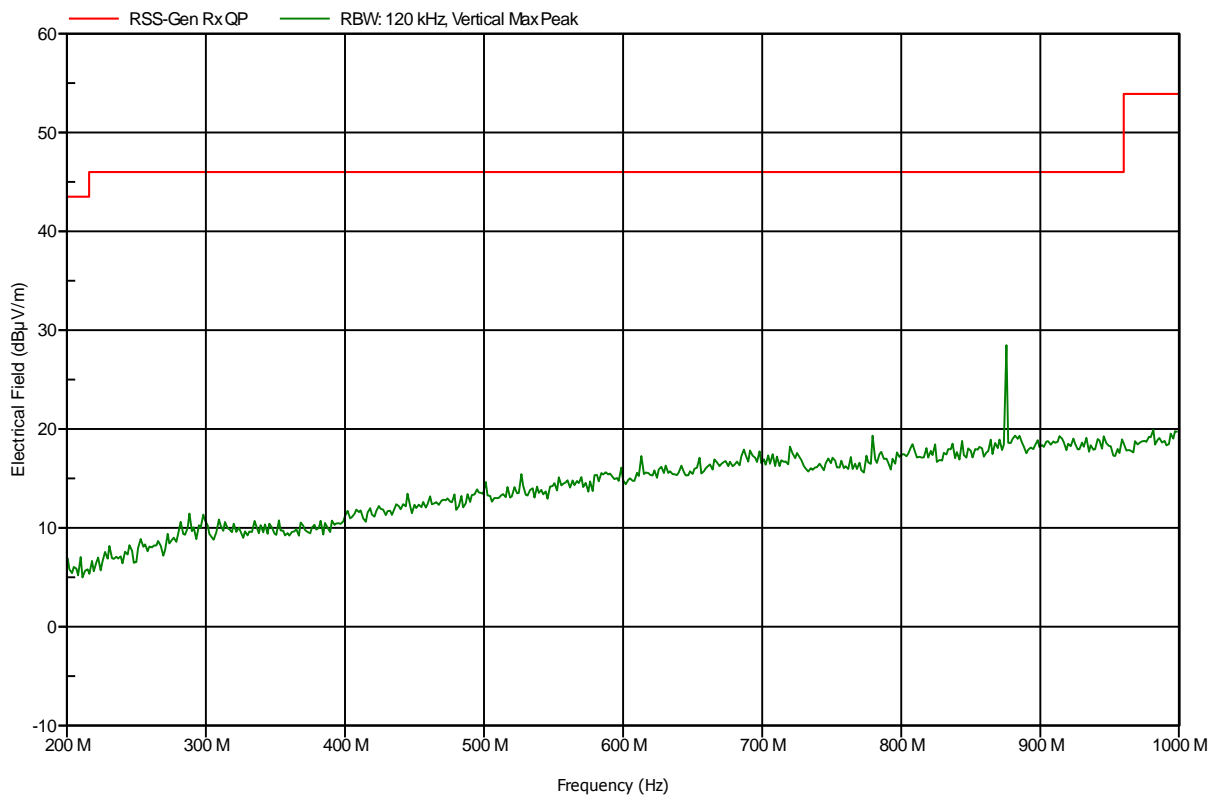


**Spurious emissions according to IC RSS-132**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	RX; GPRS 850; CH: 188; RX_Idle; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical

Index 322

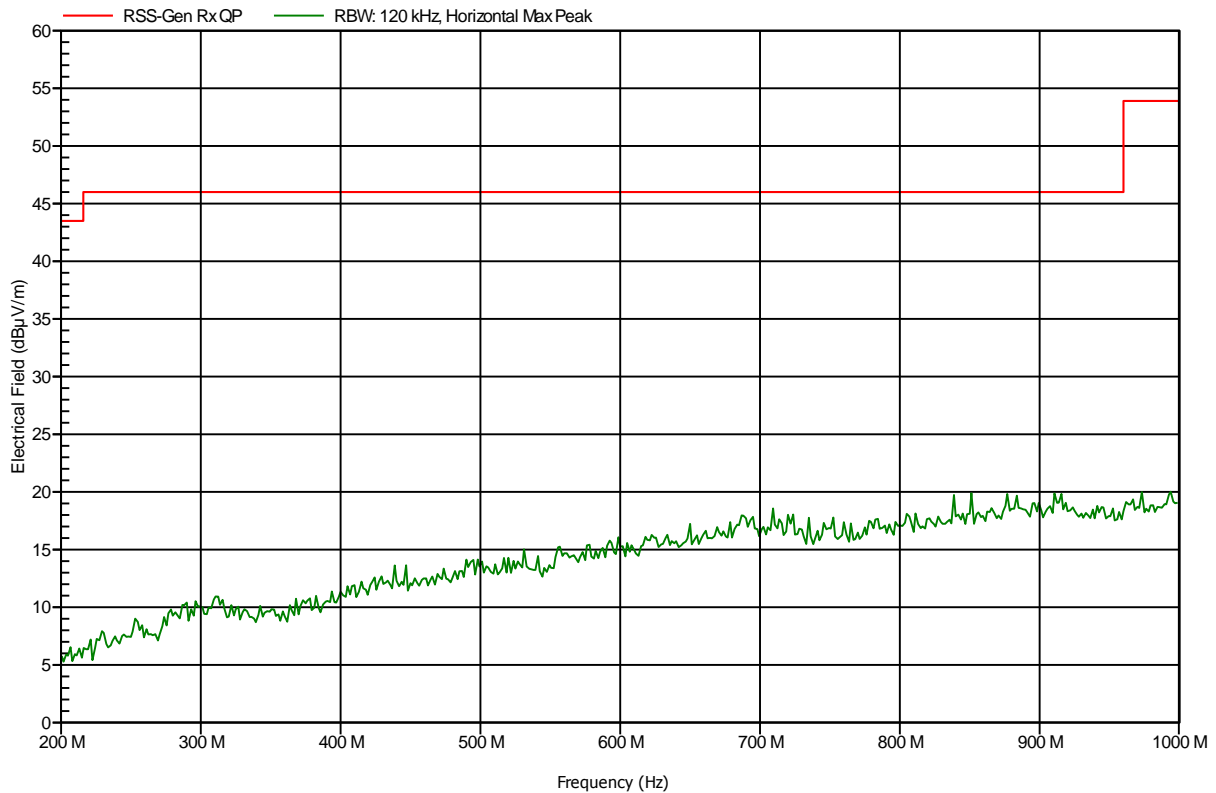


**Spurious emissions according to IC RSS-132**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	RX; GPRS 850; CH: 188; RX_Idle; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical

Index 323

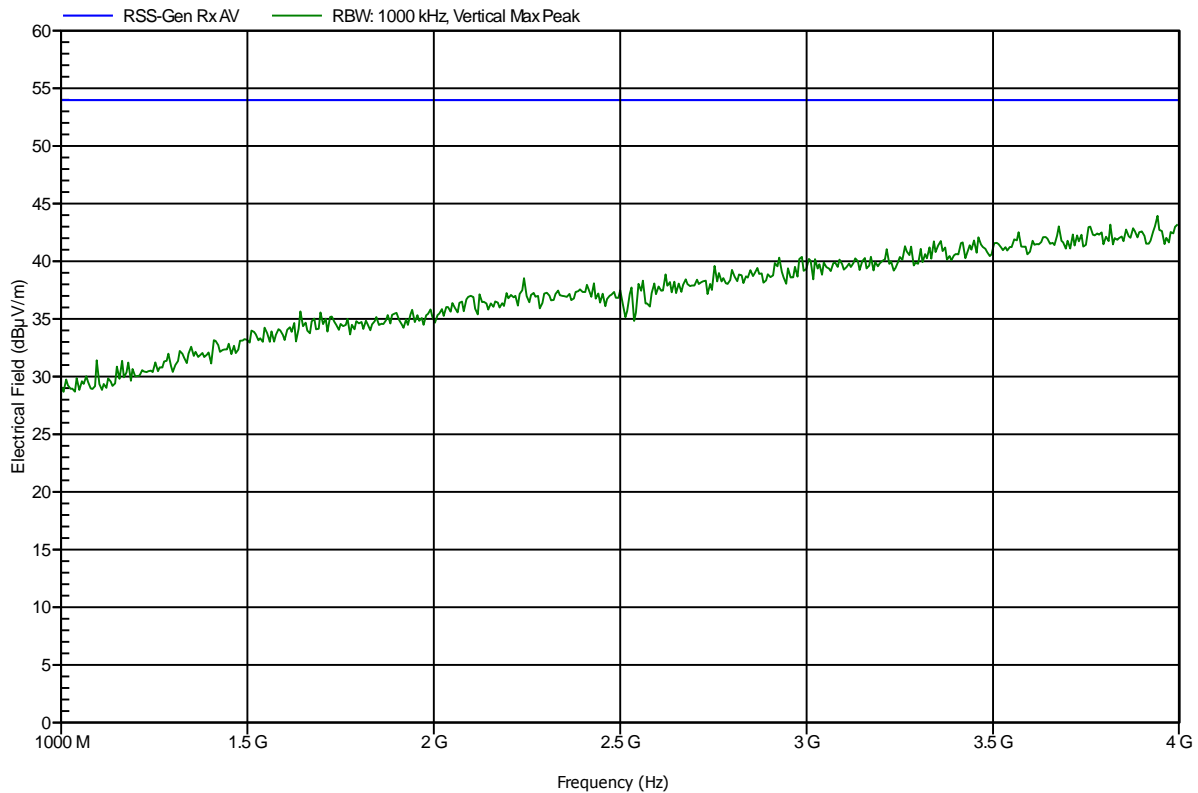


**Spurious emissions according to IC RSS-132**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	RX; GPRS 850; CH: 188; RX_Idle; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical

Index 317



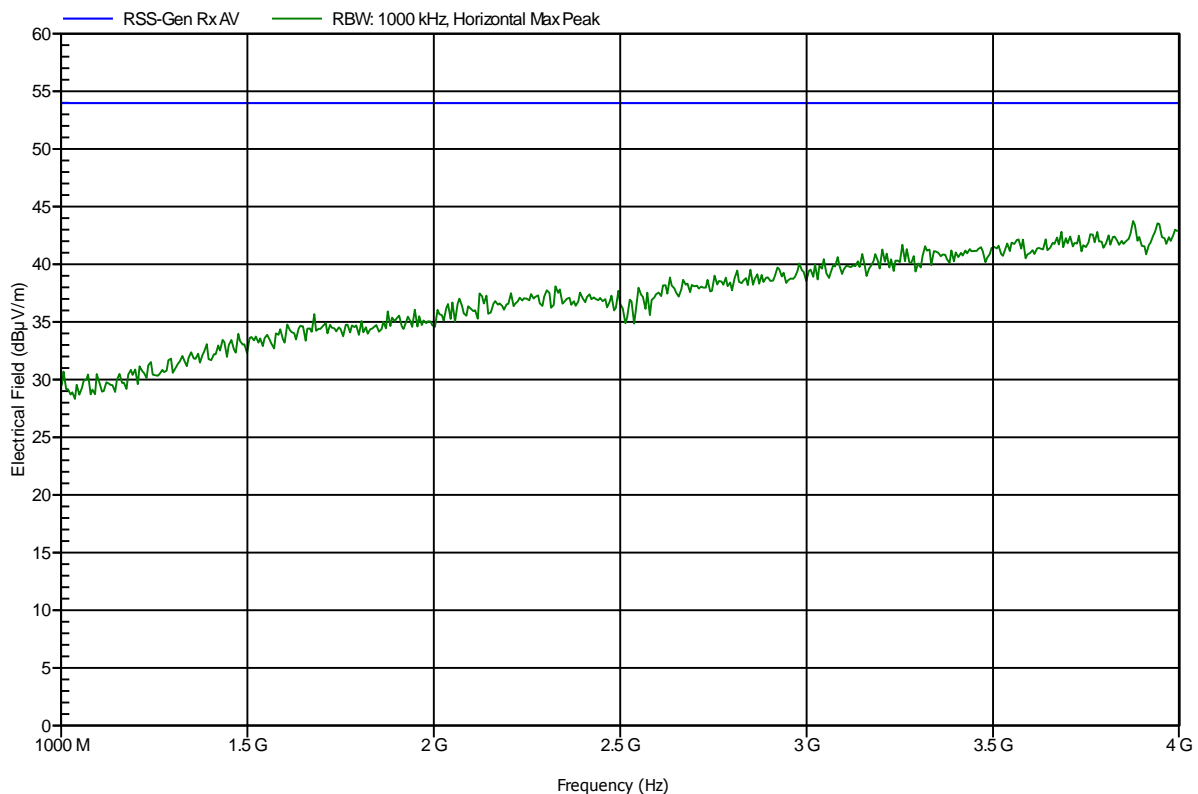


**Spurious emissions according to IC RSS-132**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	RX; GPRS 850; CH: 188; RX_Idle; Ant: integral
Test Date:	2013-12-10
Note:	EUT vertical

Index 314

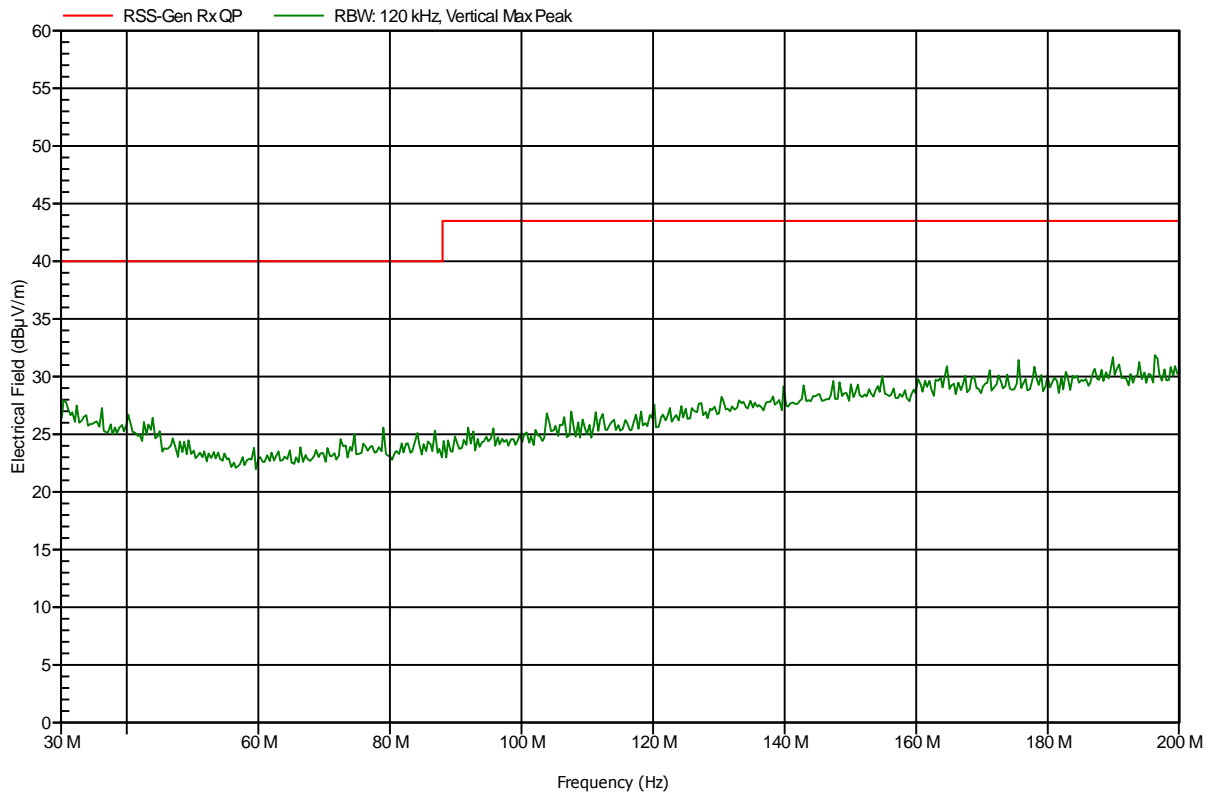


**Spurious emissions according to IC RSS-132**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	RX; UMTS FDD V; CH: 4175; RX_Idle; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 329

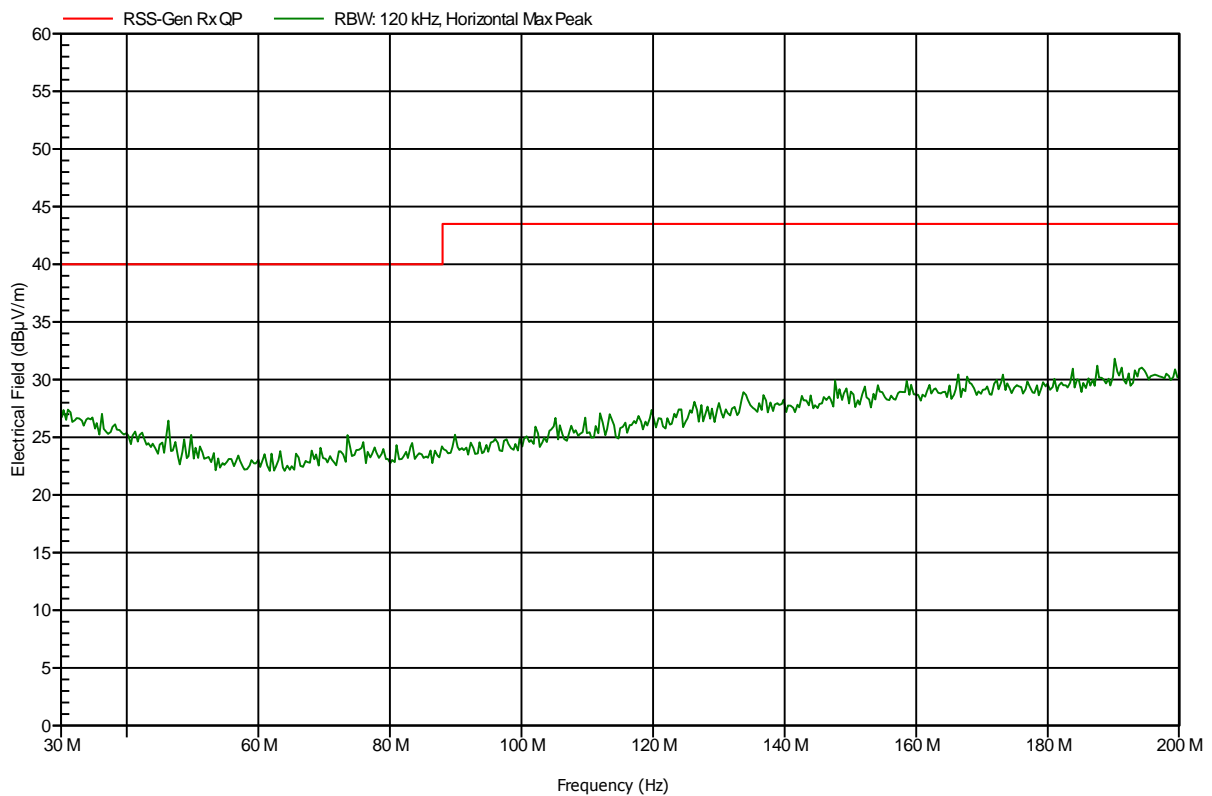


**Spurious emissions according to IC RSS-132**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	RX; UMTS FDD V; CH: 4175; RX_Idle; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 330

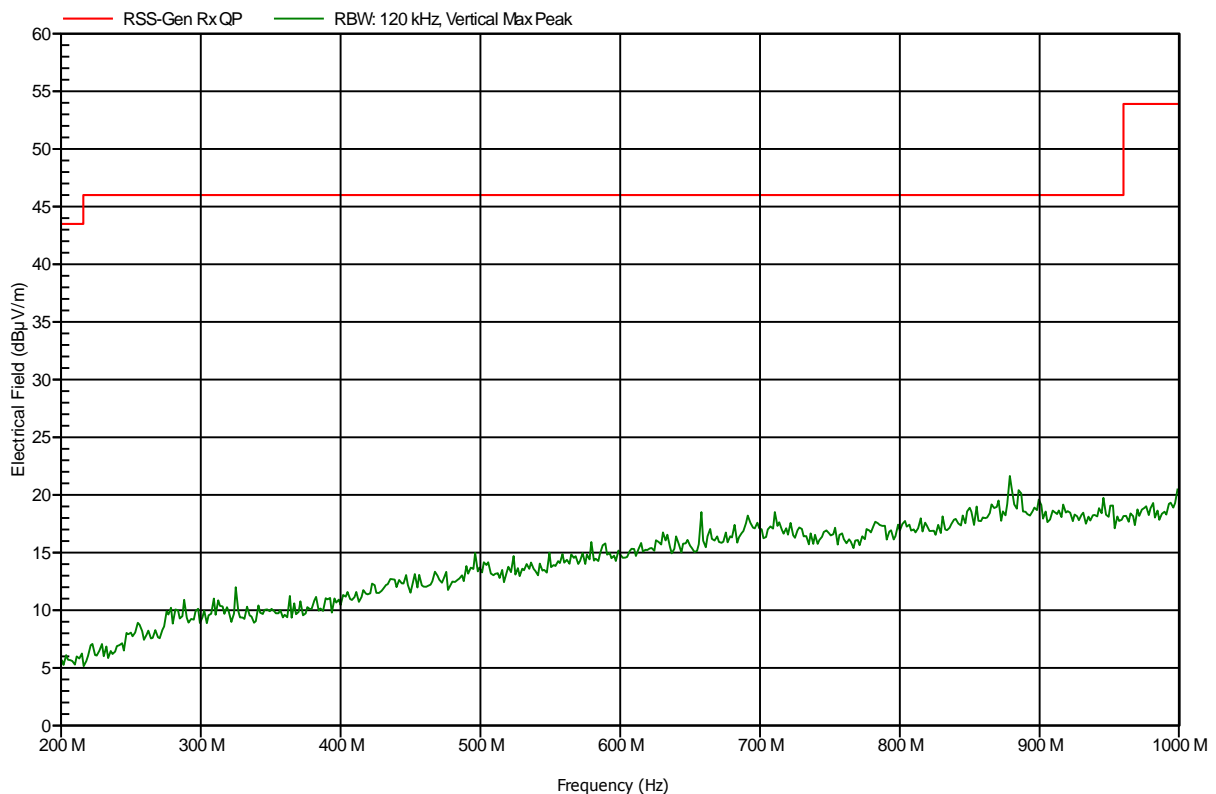


**Spurious emissions according to IC RSS-132**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	RX; UMTS FDD V; CH: 4175; RX_Idle; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 325

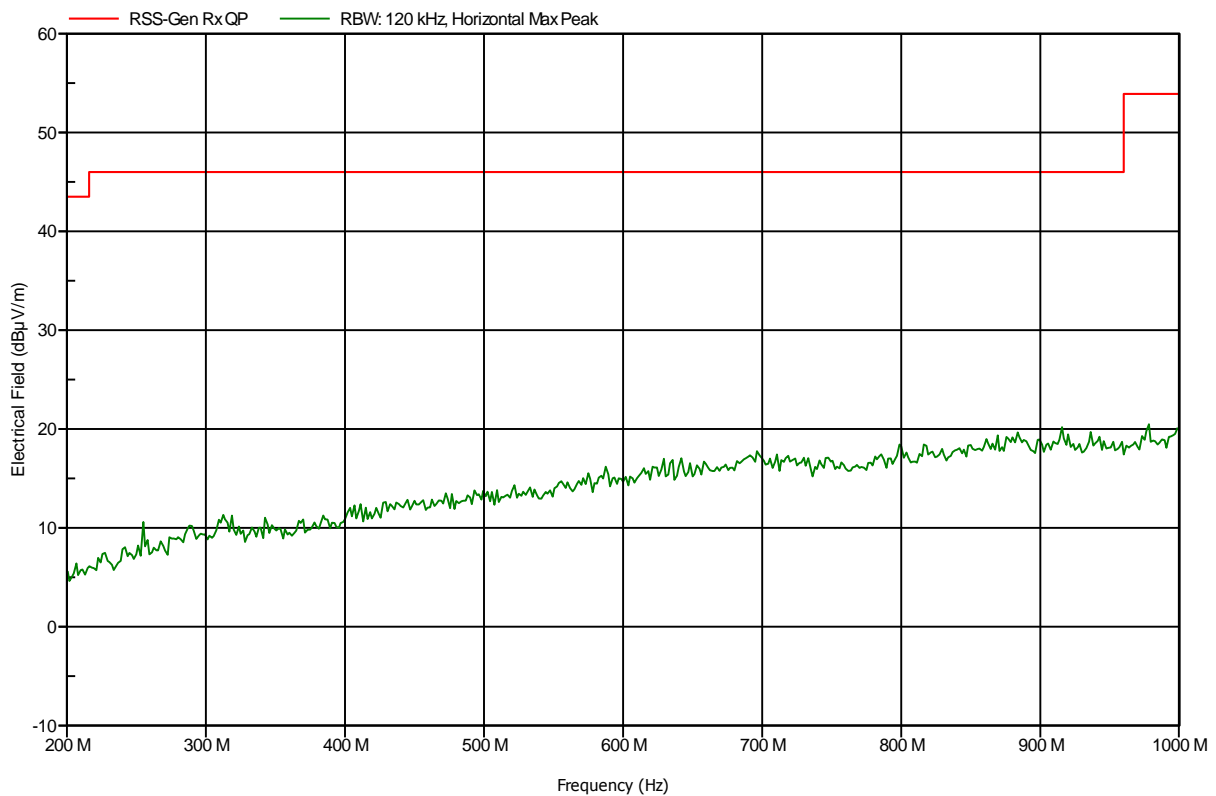


**Spurious emissions according to IC RSS-132**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	RX; UMTS FDD V; CH: 4175; RX_Idle; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 326

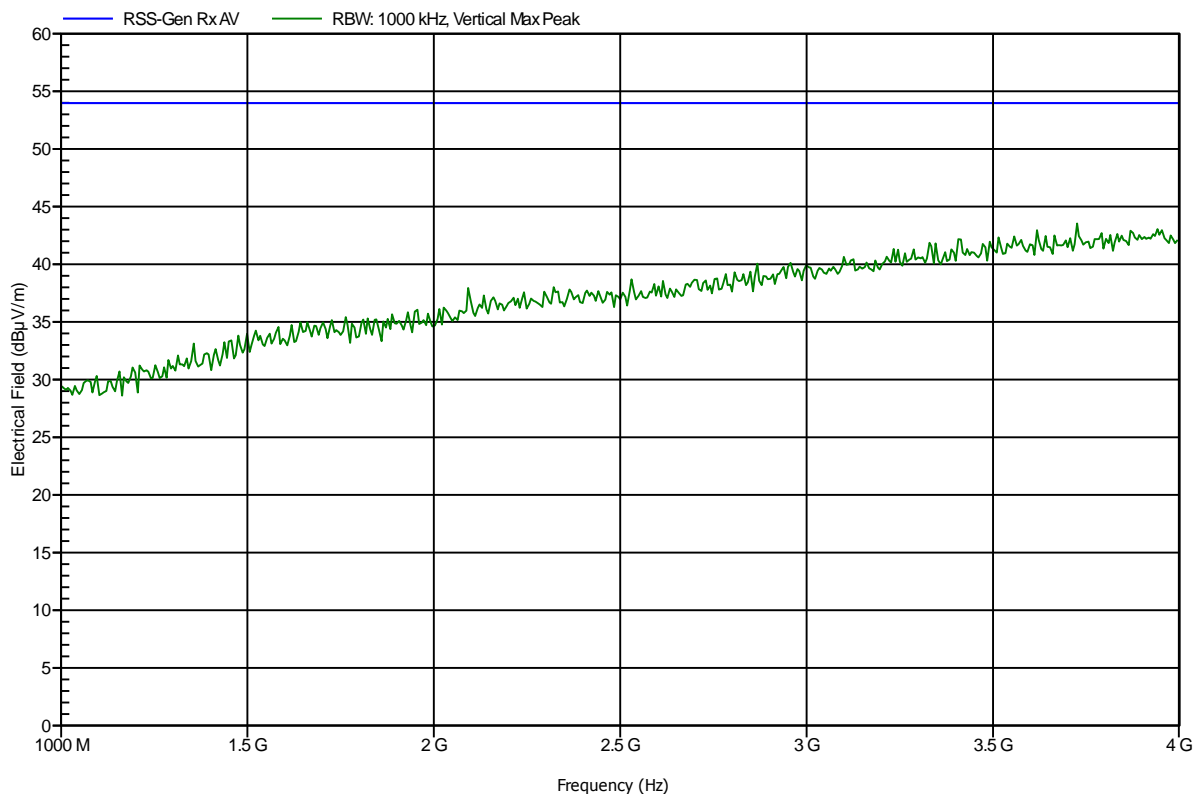


**Spurious emissions according to IC RSS-132**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	RX; UMTS FDD V; CH: 4175; RX_Idle; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 327

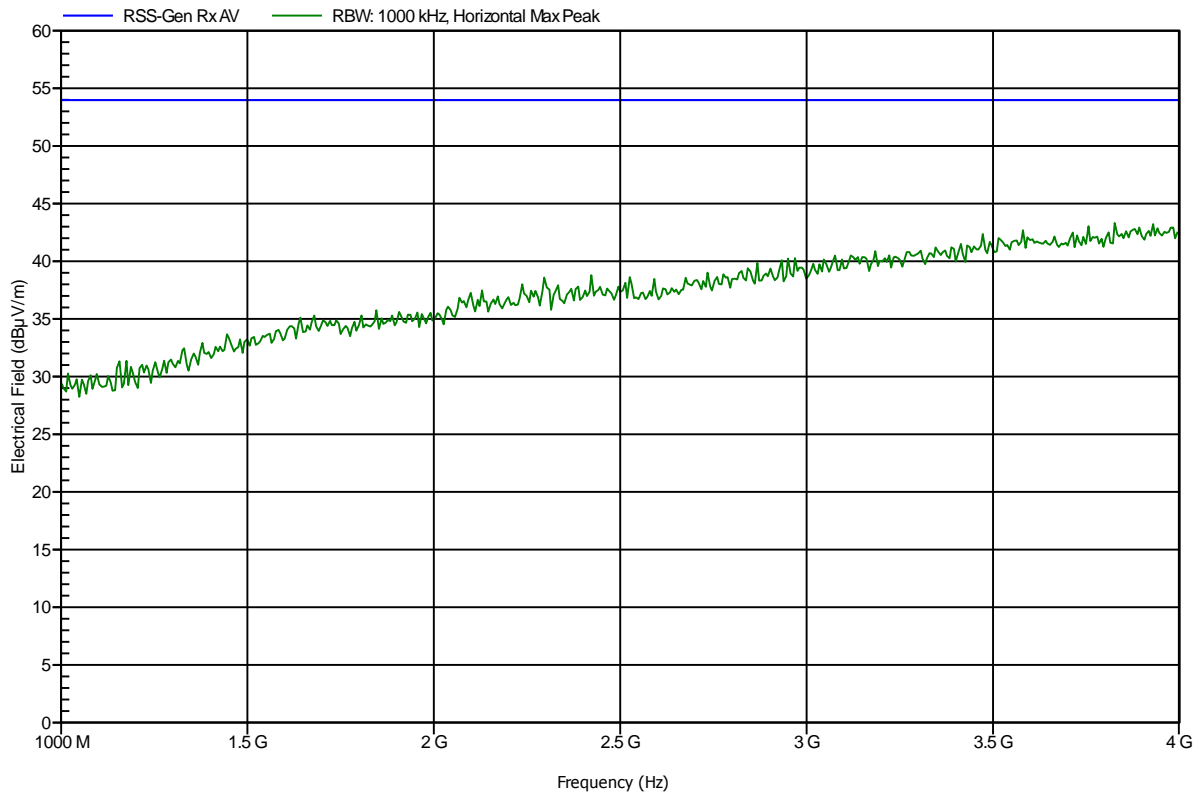


**Spurious emissions according to IC RSS-132**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	RX; UMTS FDD V; CH: 4175; RX_Idle; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 328

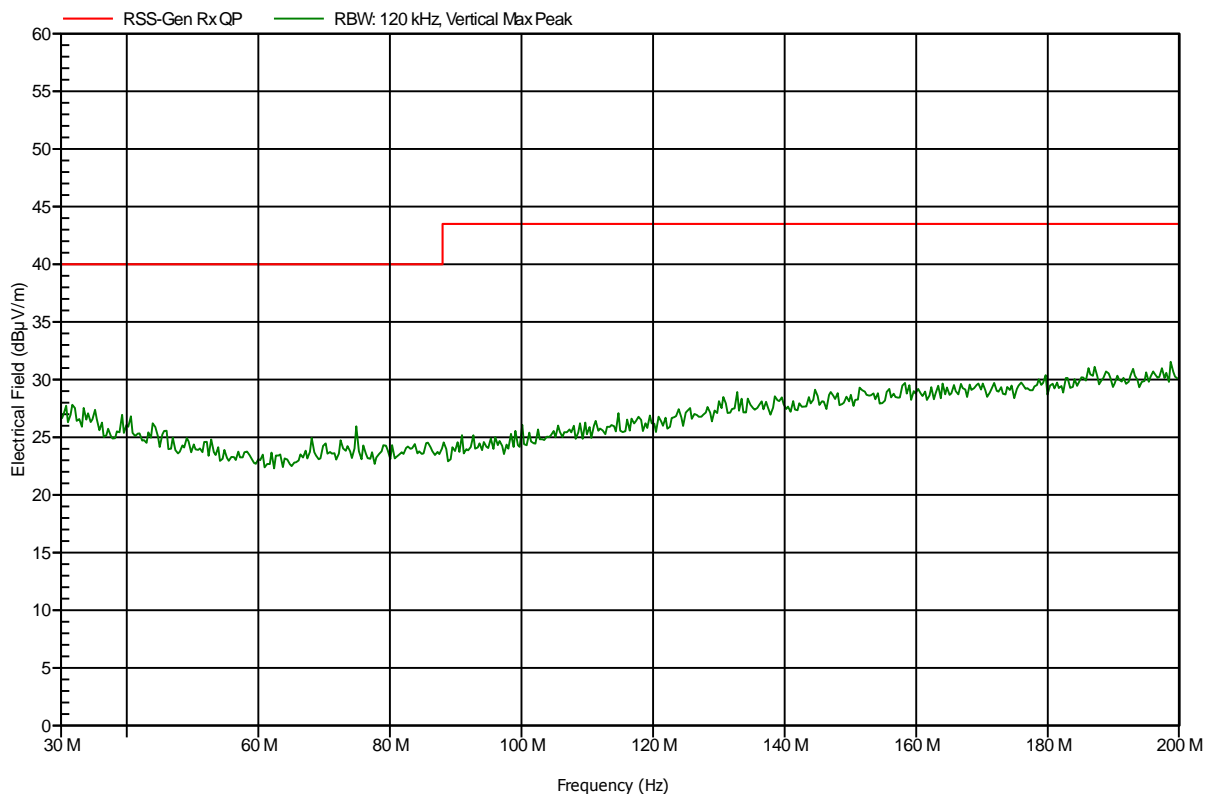


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	RX; GPRS 1900; CH: 661; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 330



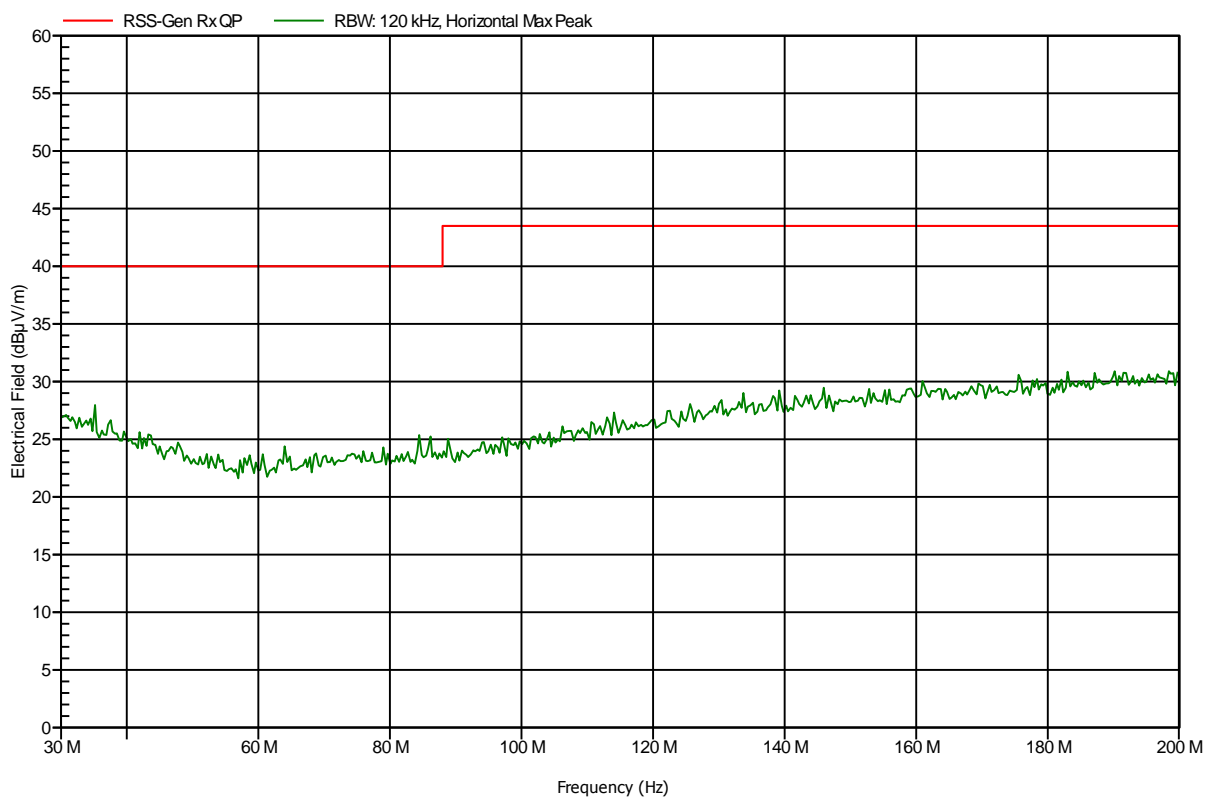


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	RX; GPRS 1900; CH: 661; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 331

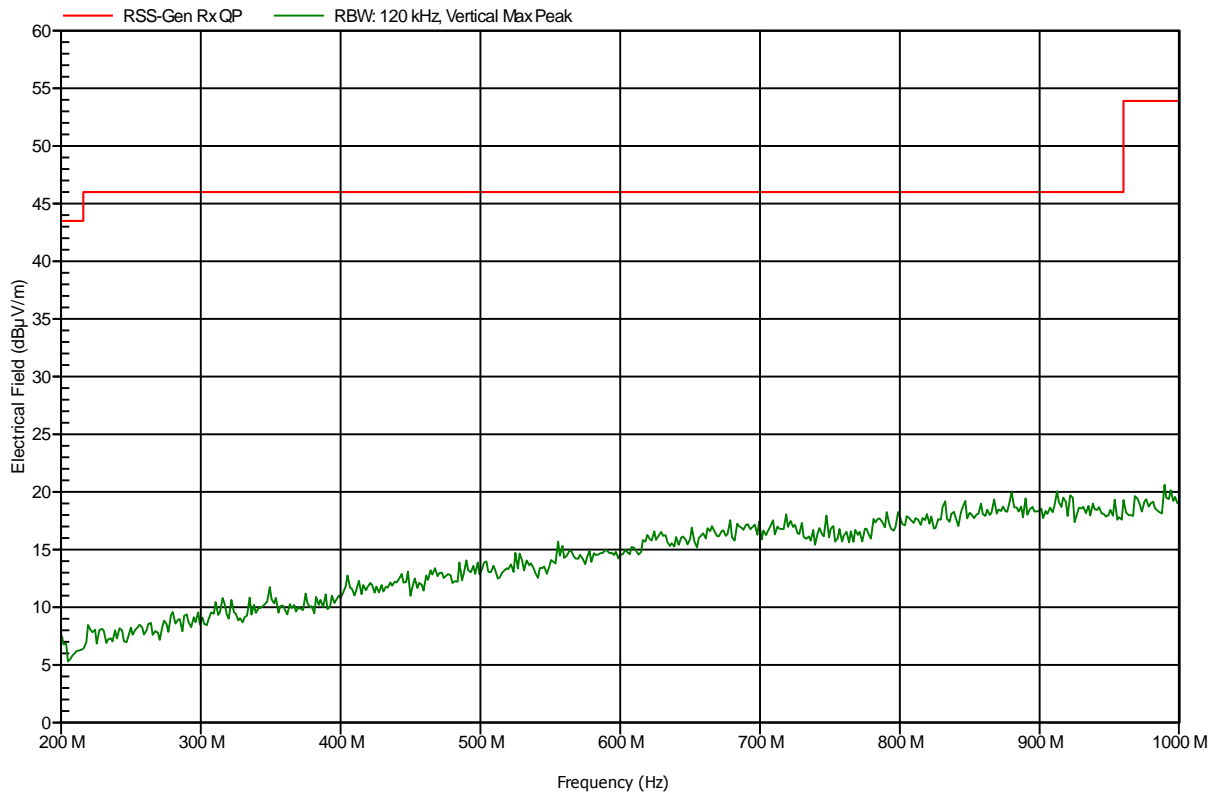


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	RX; GPRS 1900; CH: 661; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 328

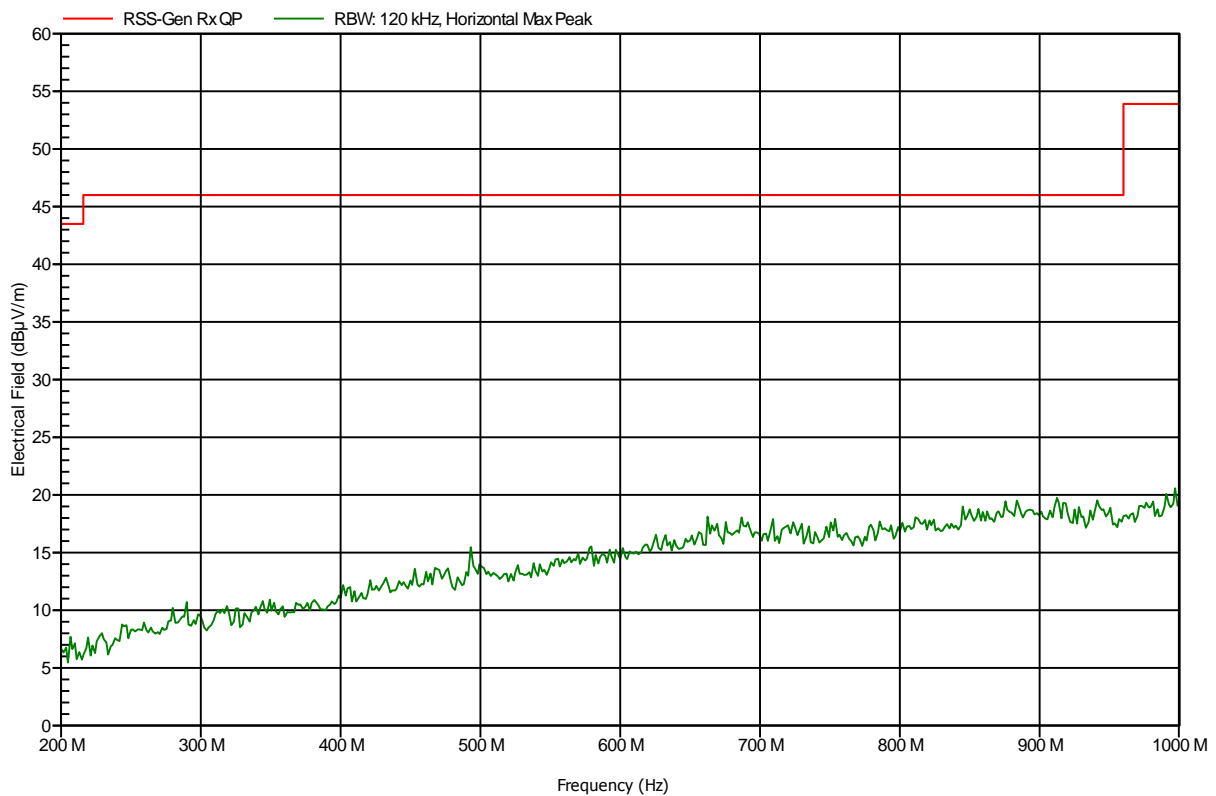


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	RX; GPRS 1900; CH: 661; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 329

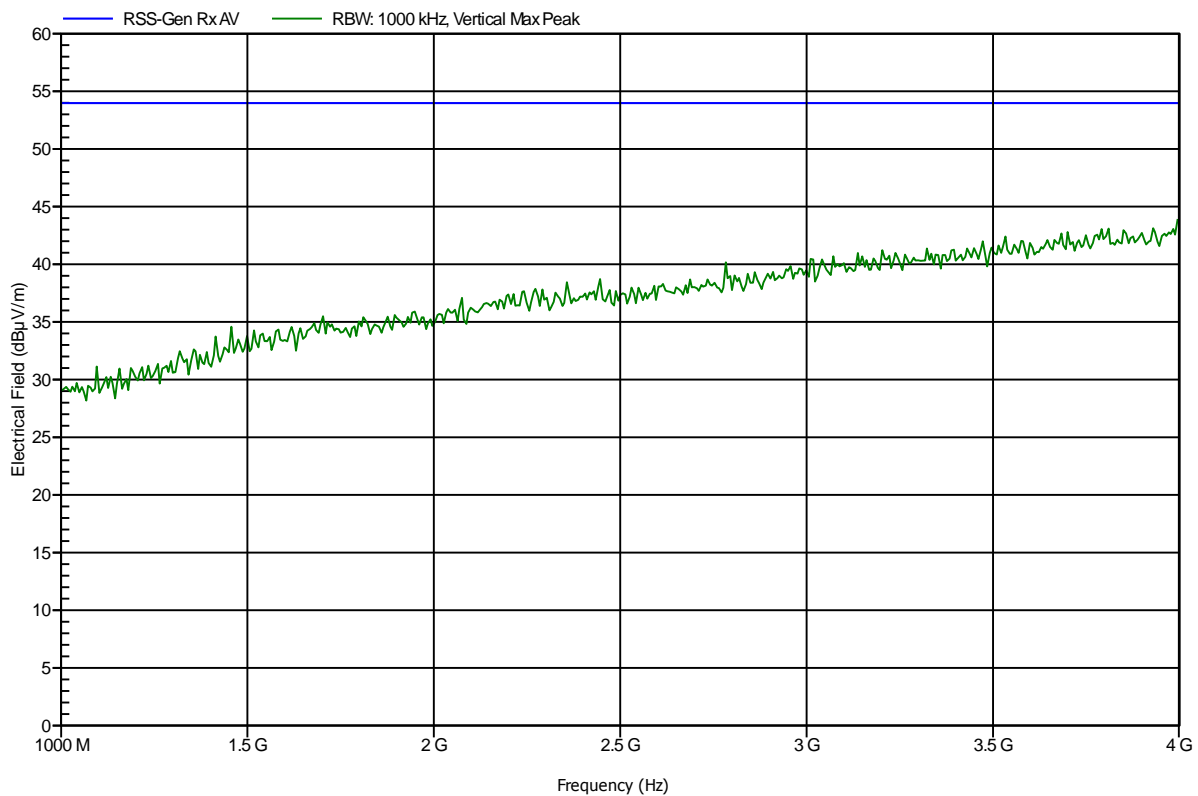


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	RX; GPRS 1900; CH: 661; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 324

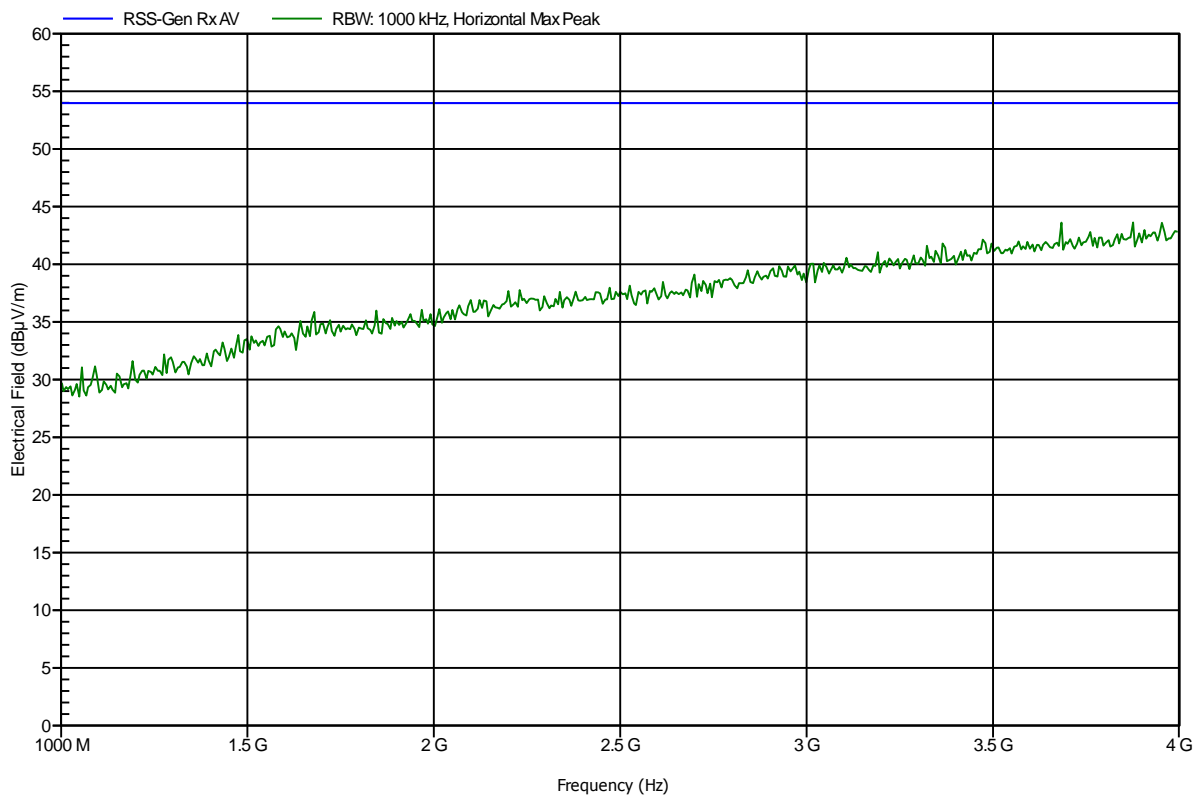


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	RX; GPRS 1900; CH: 661; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 326

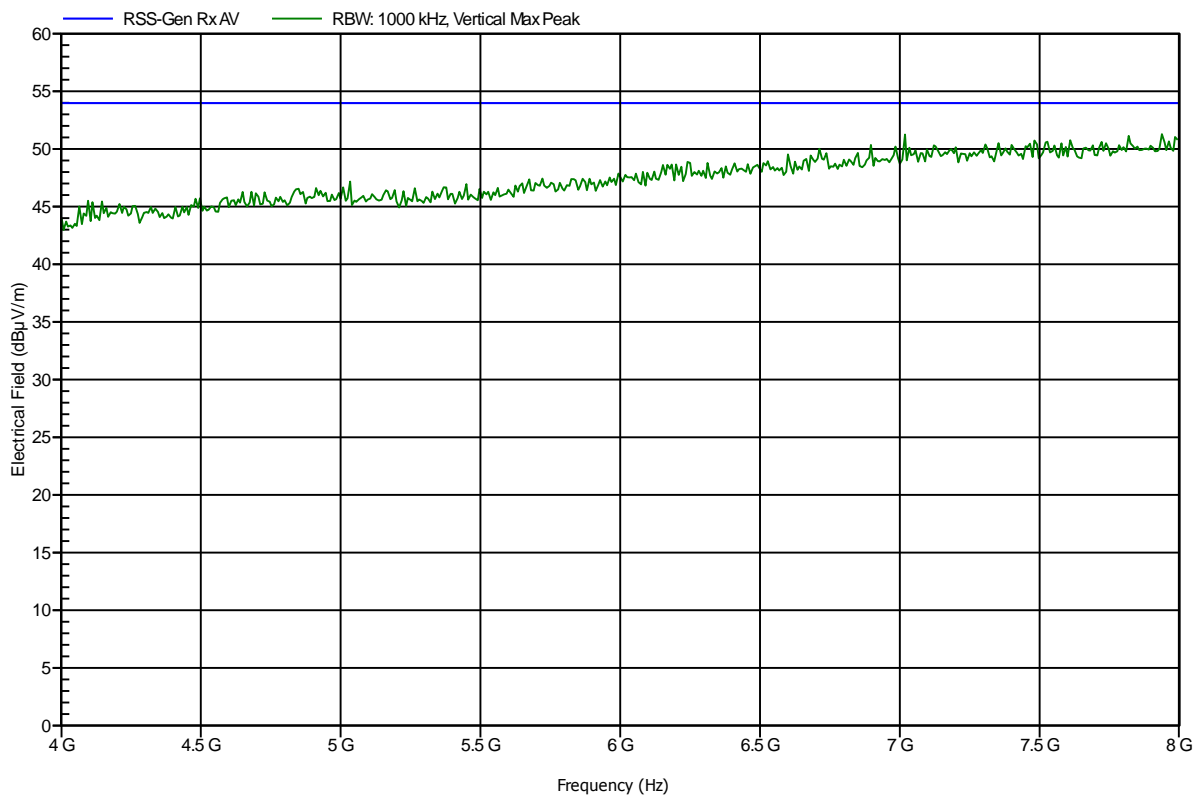


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	RX; GPRS 1900; CH: 661; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 325

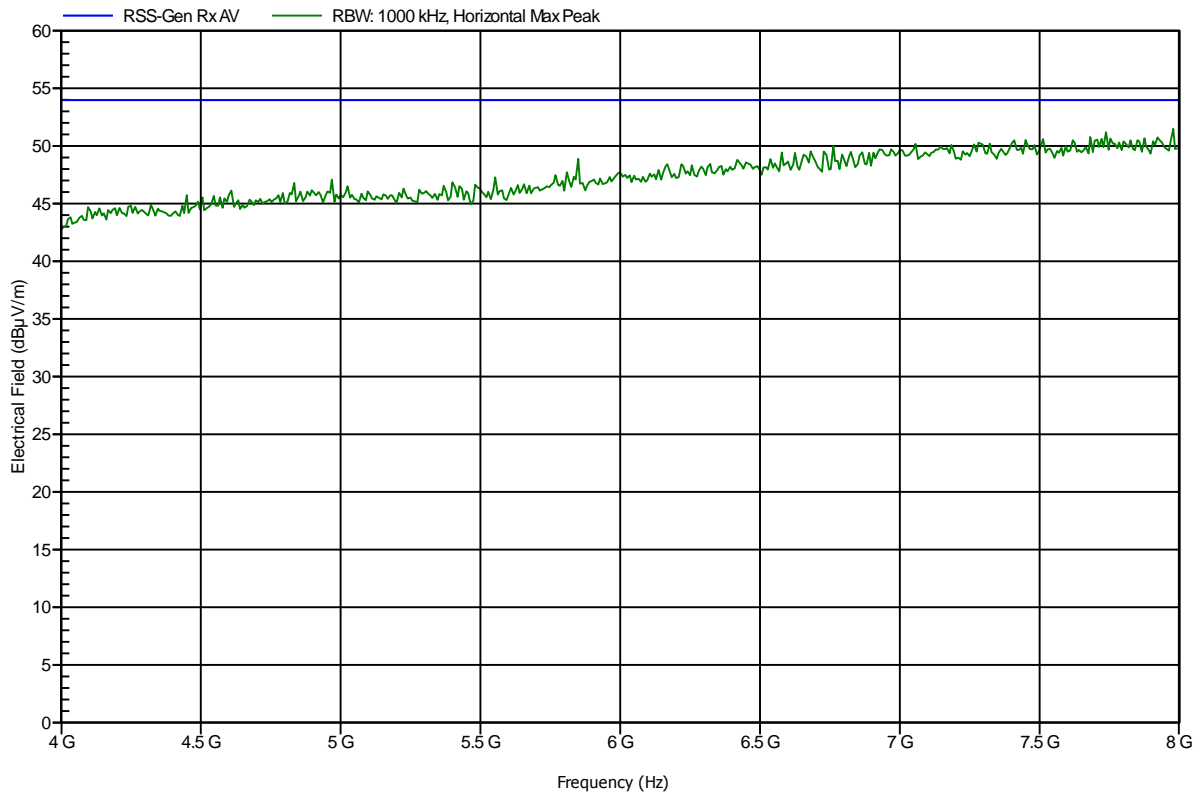


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	RX; GPRS 1900; CH: 661; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 327

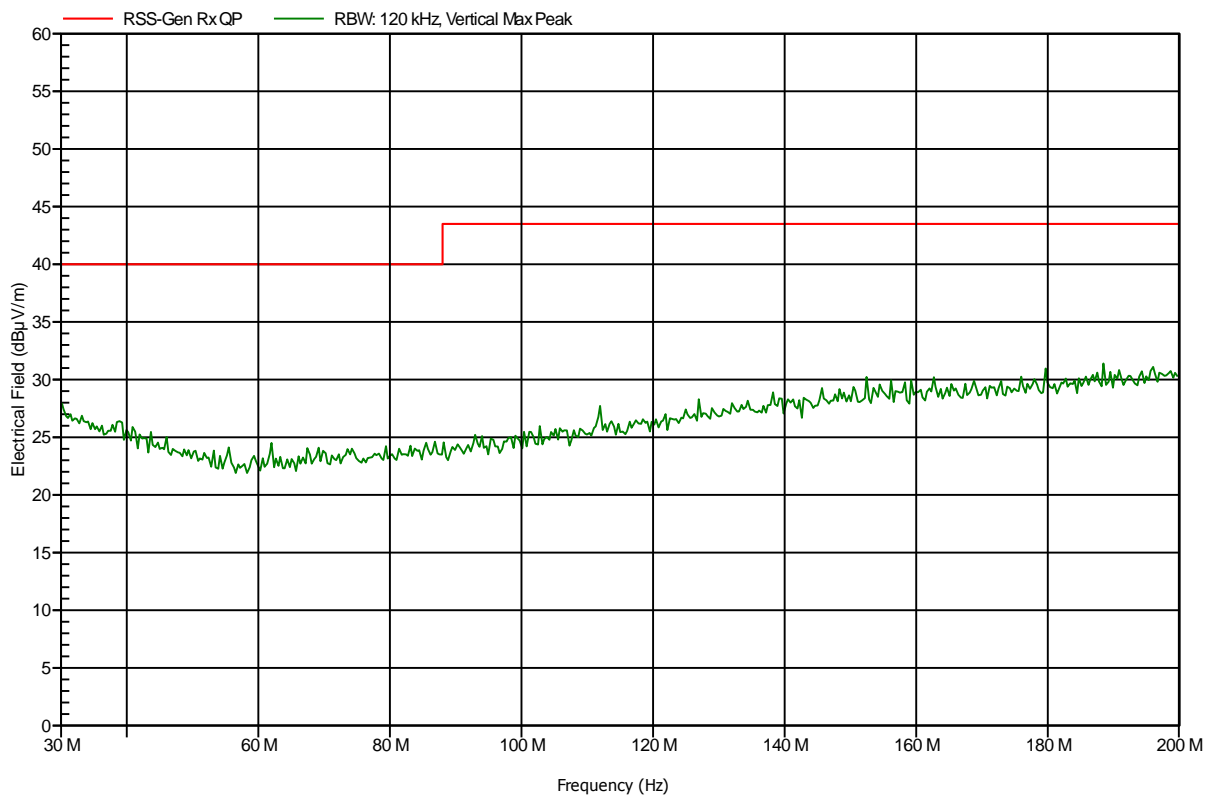


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	RX; UMTS FDD II; CH: 9400; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 333



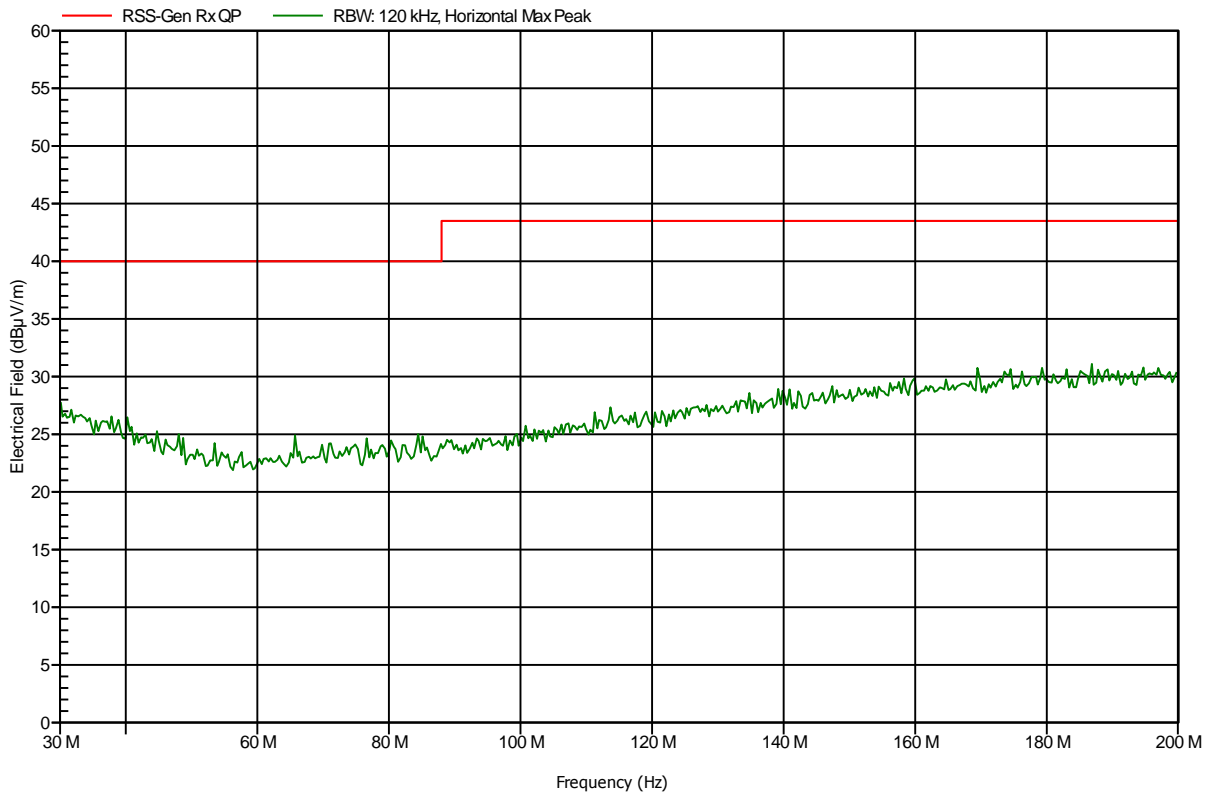


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	RX; UMTS FDD II; CH: 9400; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 332

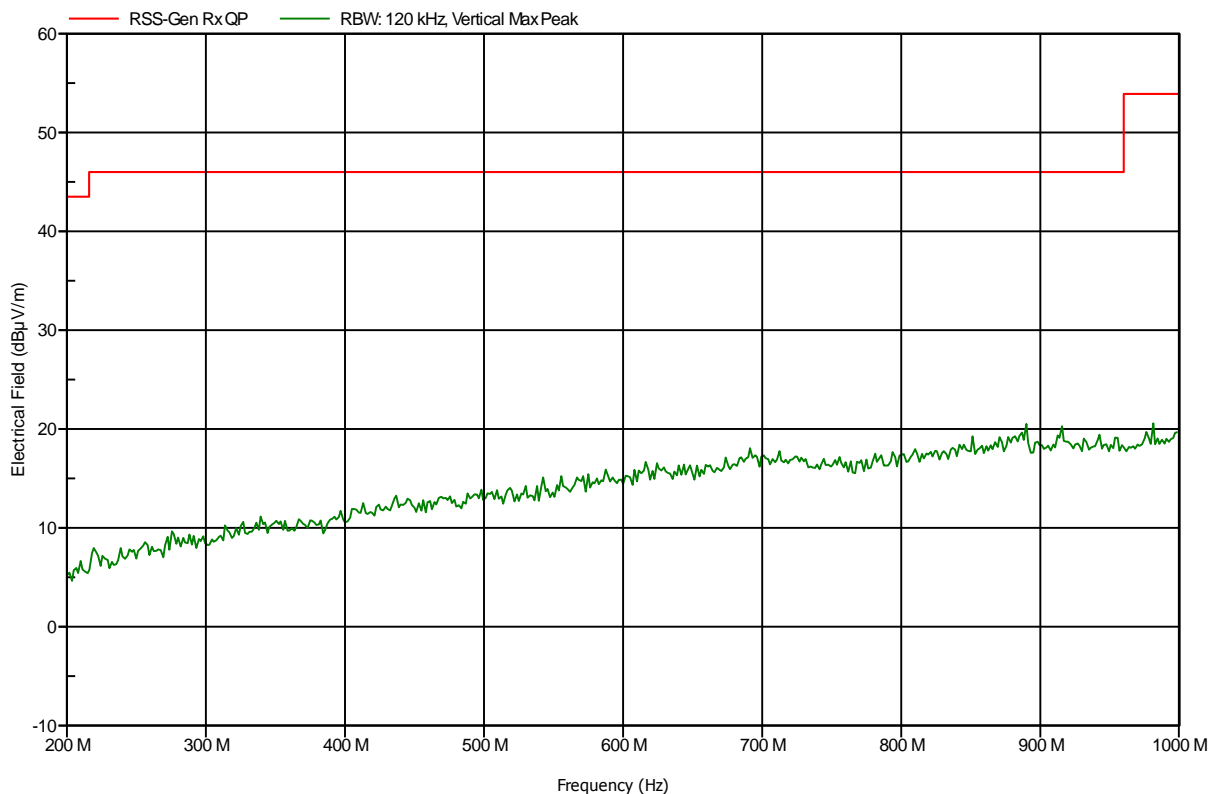


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	RX; UMTS FDD II; CH: 9400; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 334

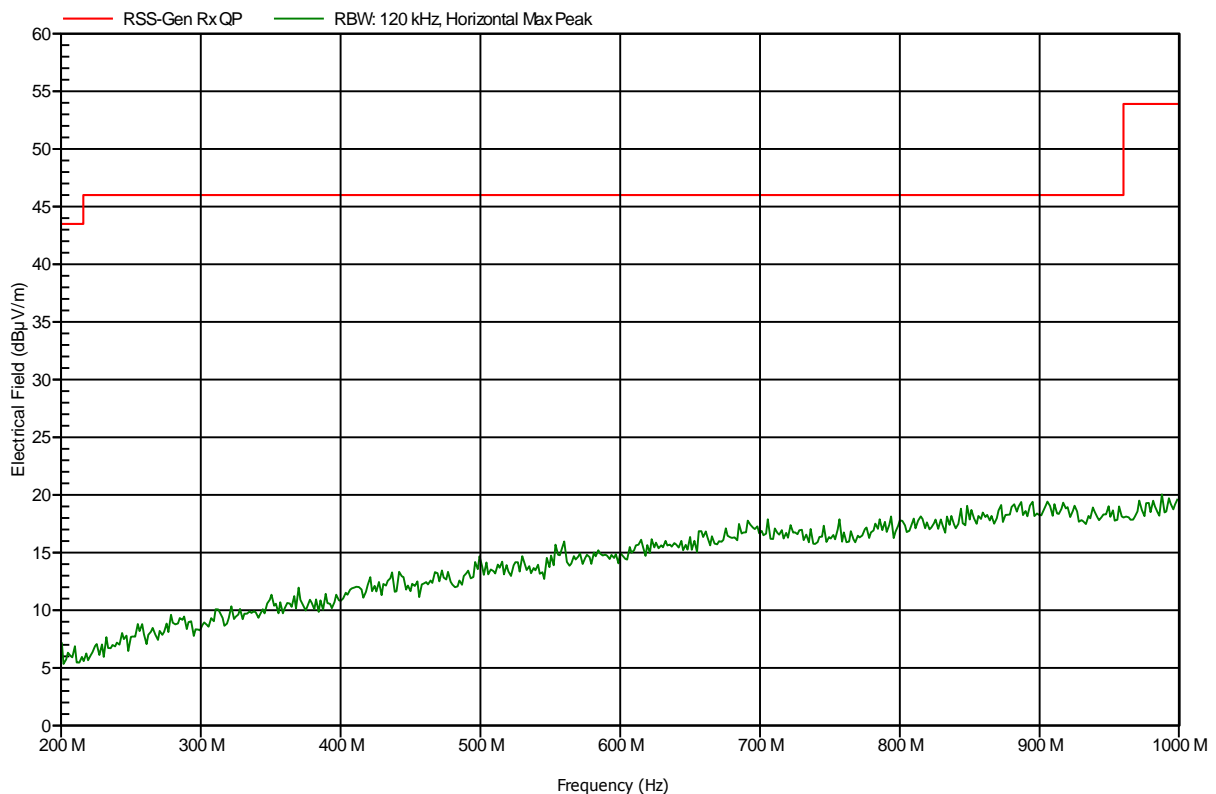


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	RX; UMTS FDD II; CH: 9400; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 335

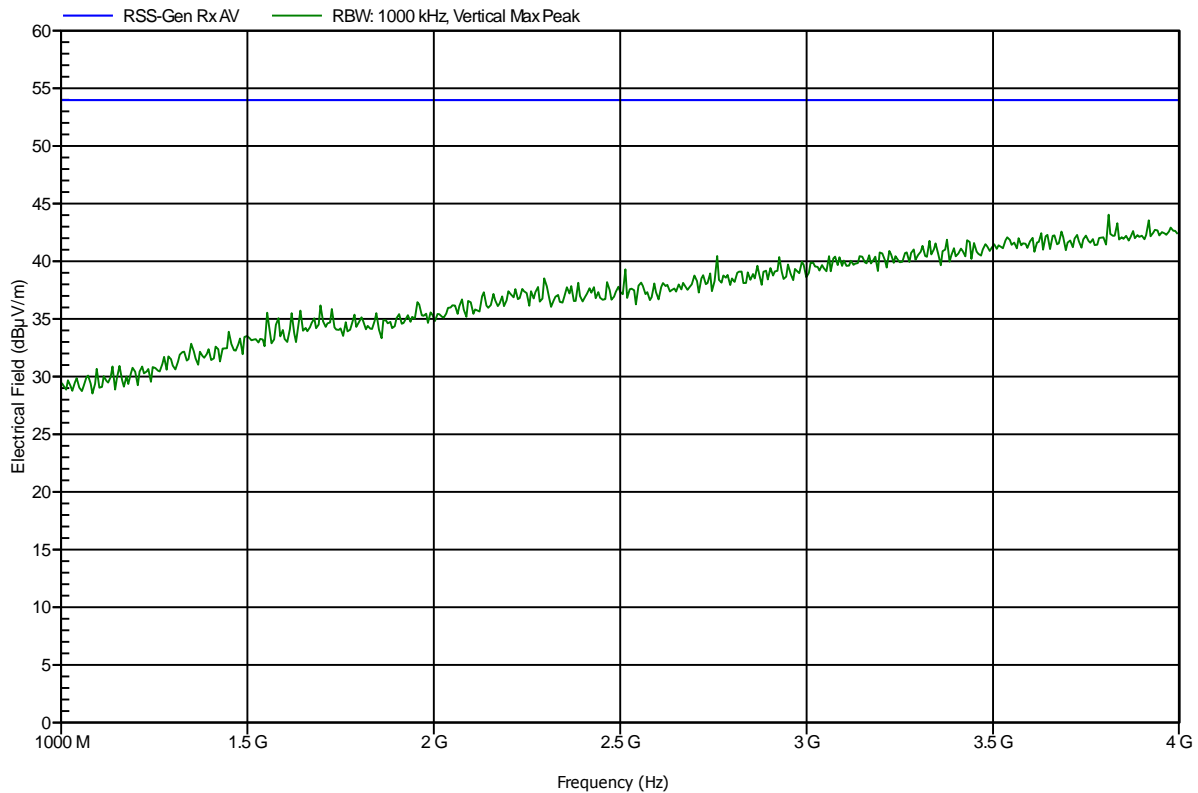


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	RX; UMTS FDD II; CH: 9400; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 338

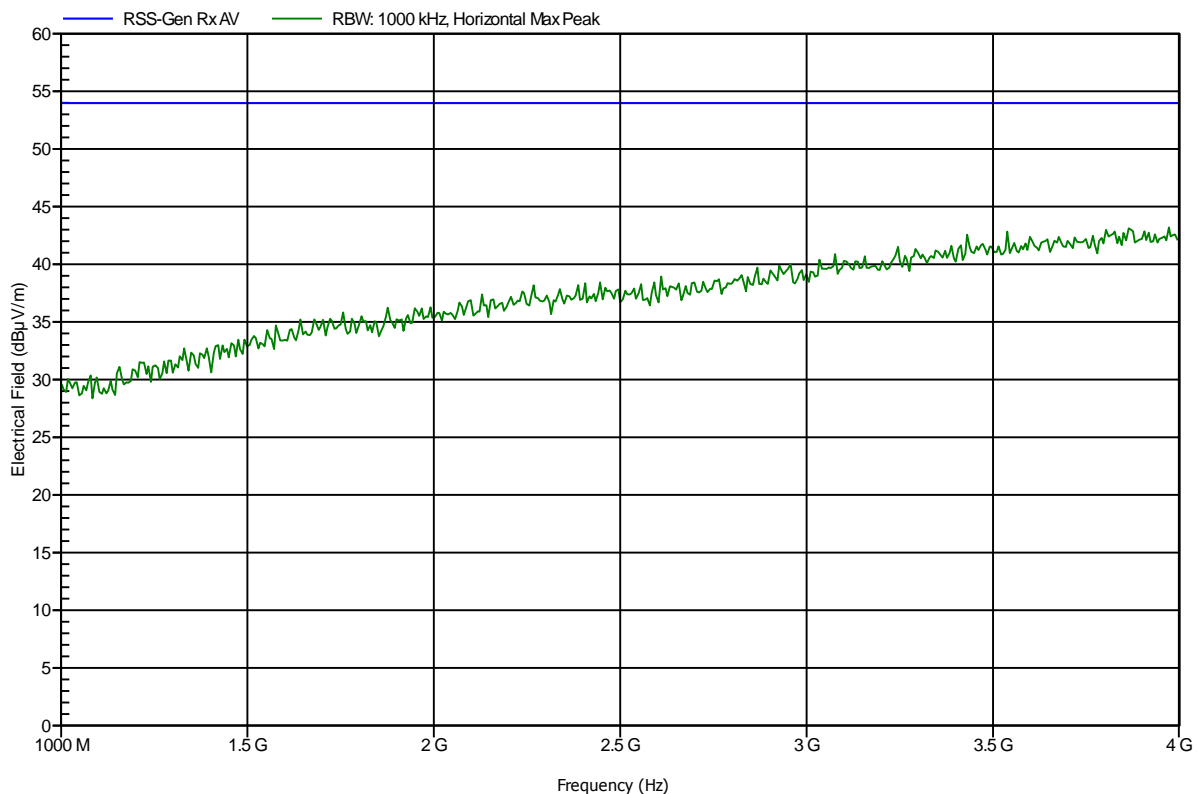


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	RX; UMTS FDD II; CH: 9400; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 336

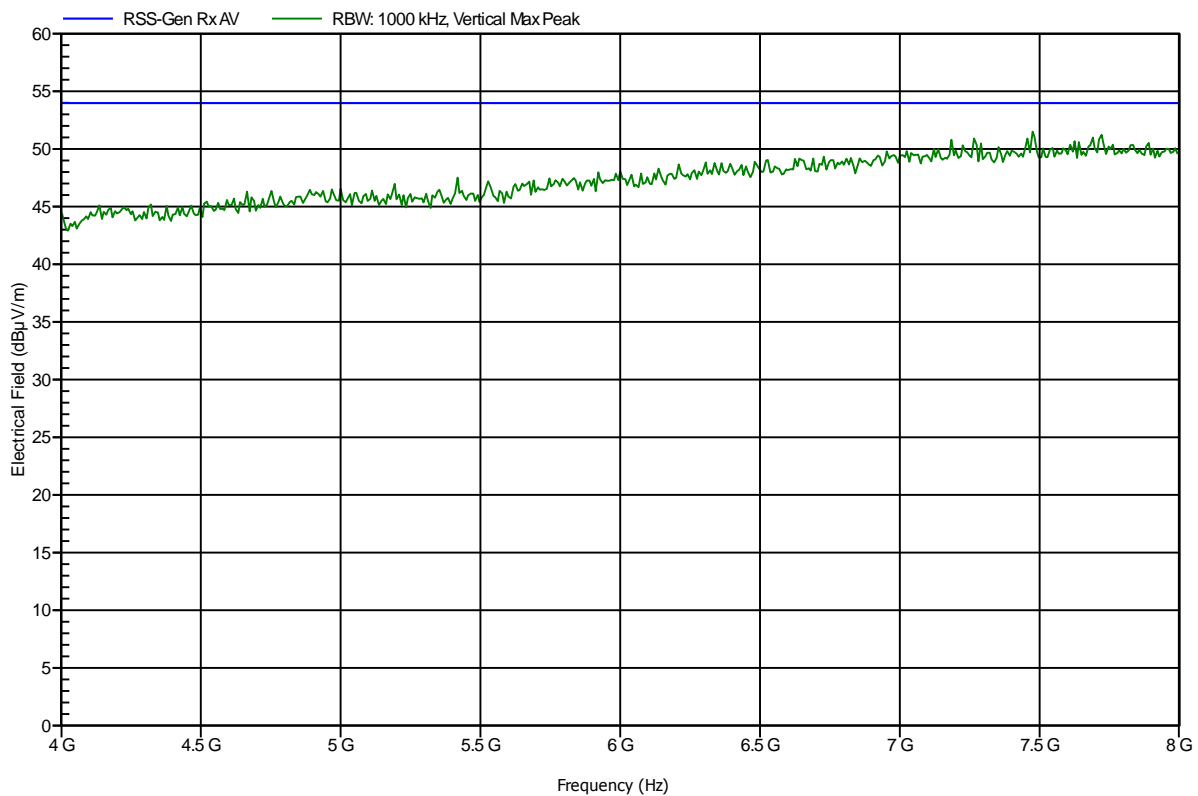


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	RX; UMTS FDD II; CH: 9400; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 339

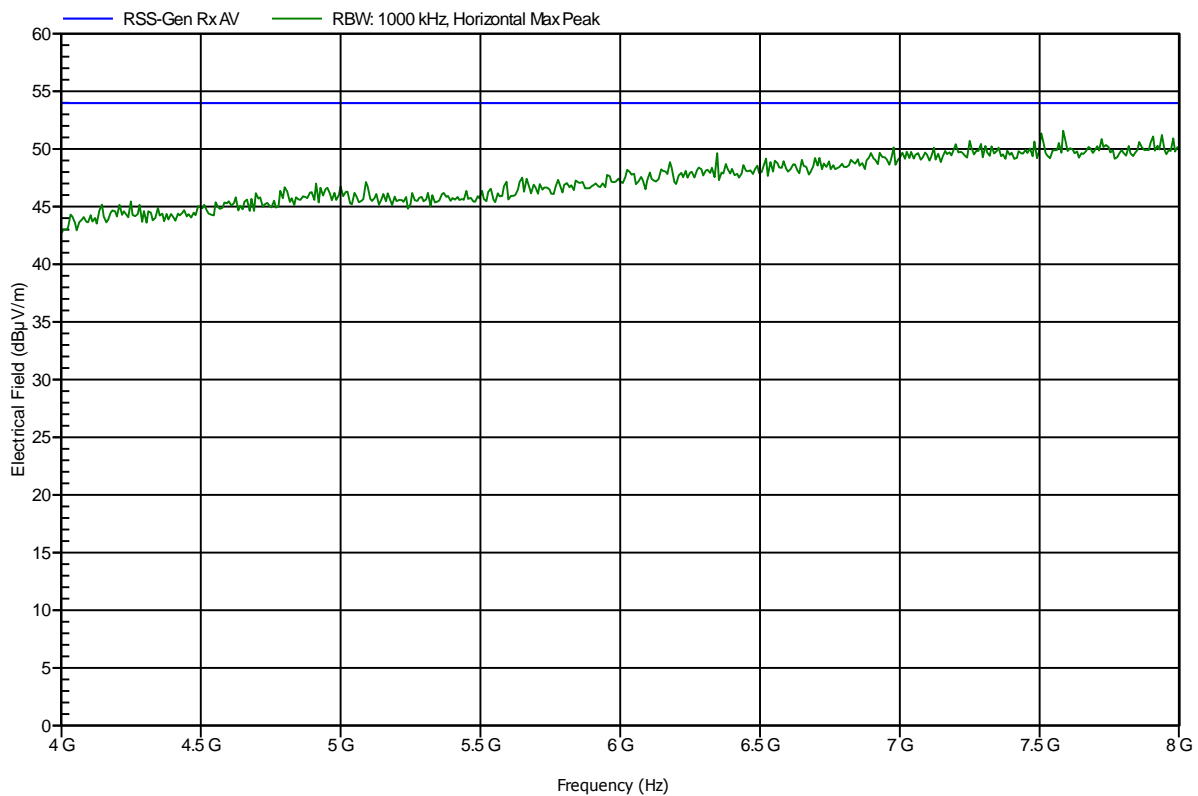


**Spurious emissions according to IC RSS-133**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	RX; UMTS FDD II; CH: 9400; RX_Idle; Ant: integral
Test Date:	2013-12-11
Note:	EUT vertical

Index 337

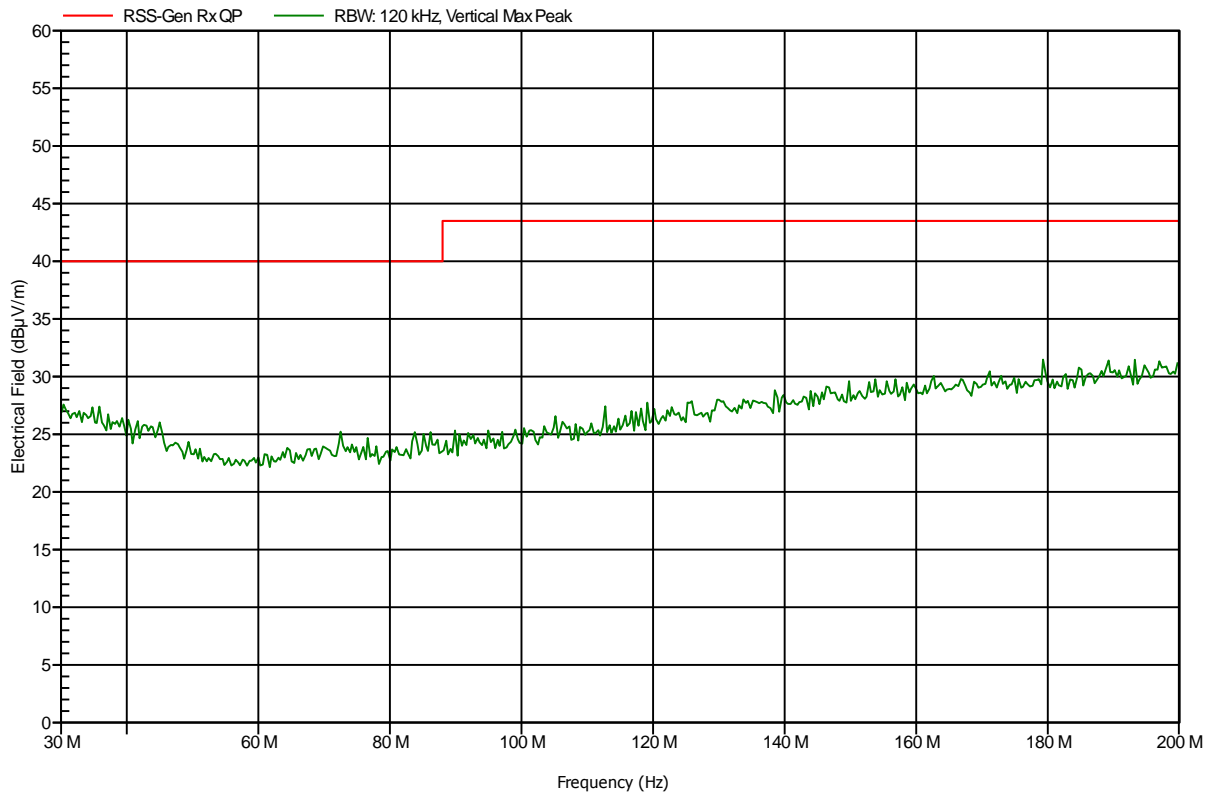


**Spurious emissions according to IC RSS-139**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	RX; UMTS FDD IV; CH: 1450; RX_Idle; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 340



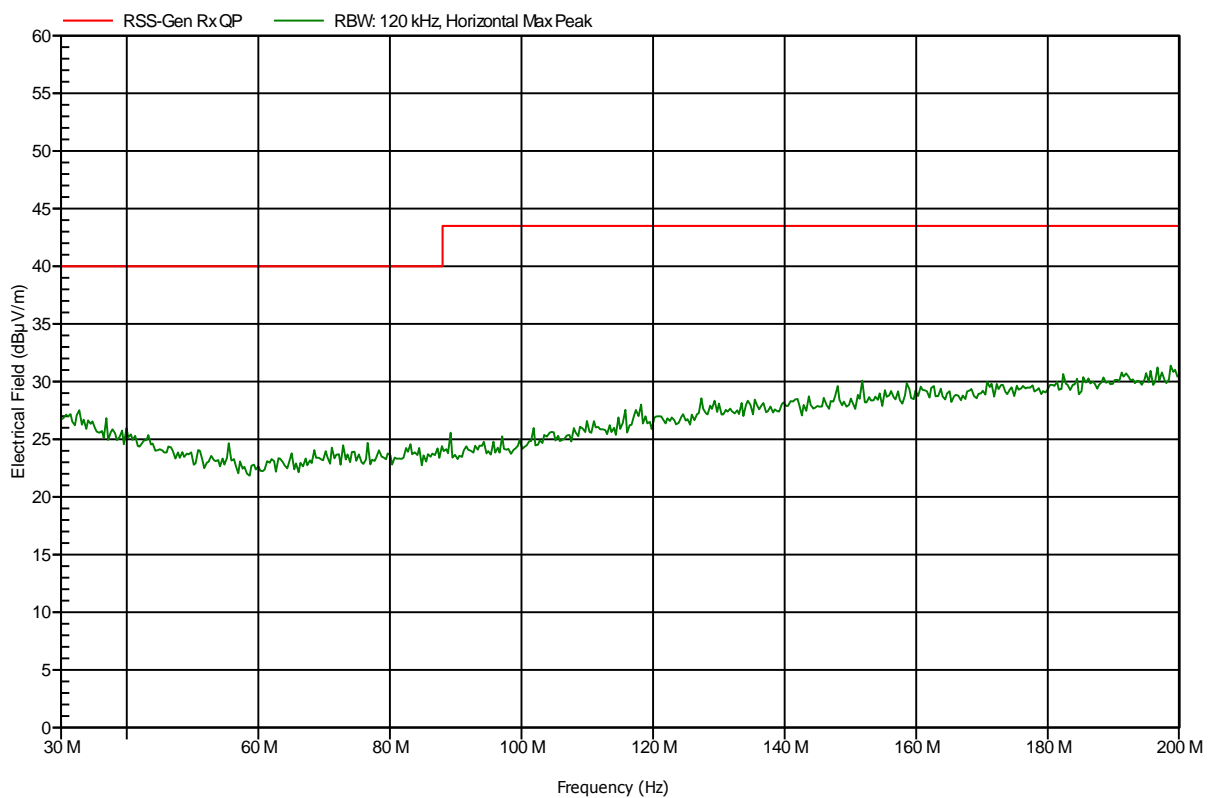


**Spurious emissions according to IC RSS-139**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	RX; UMTS FDD IV; CH: 1450; RX_Idle; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 341

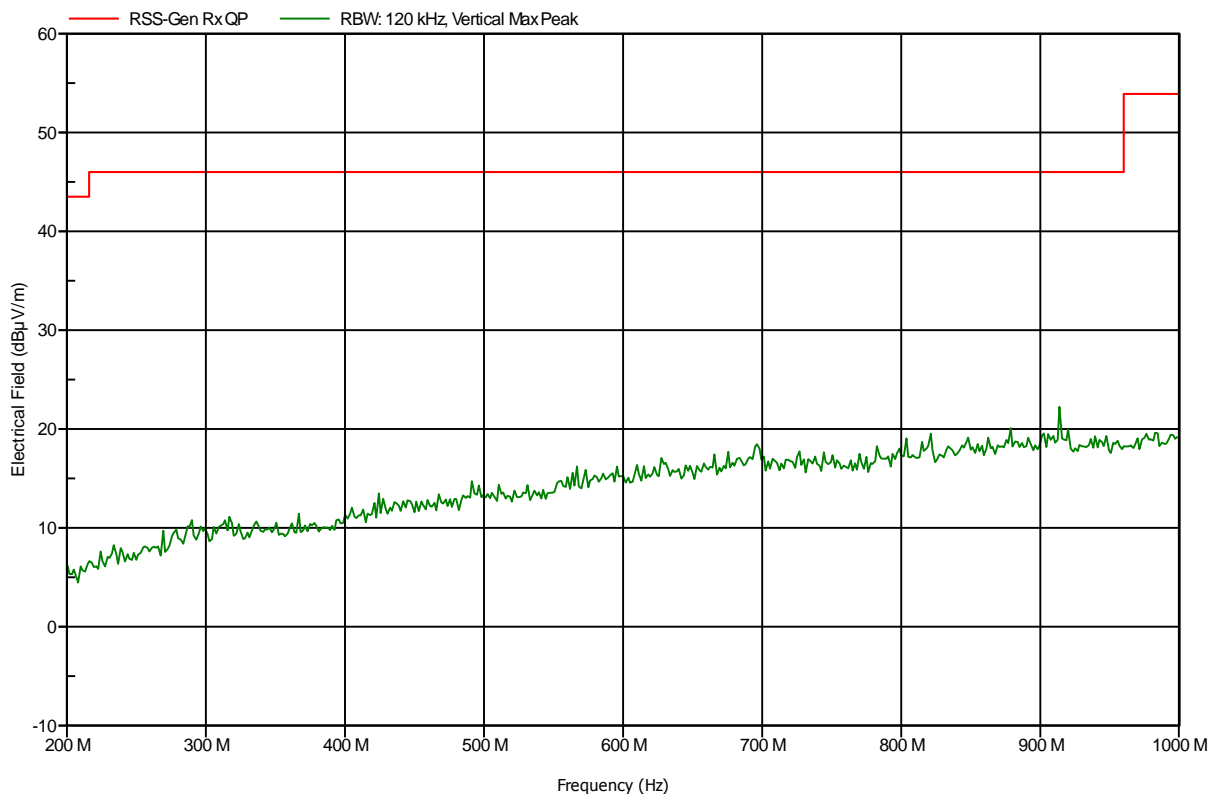


**Spurious emissions according to IC RSS-139**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	RX; UMTS FDD IV; CH: 1450; RX_Idle; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 343

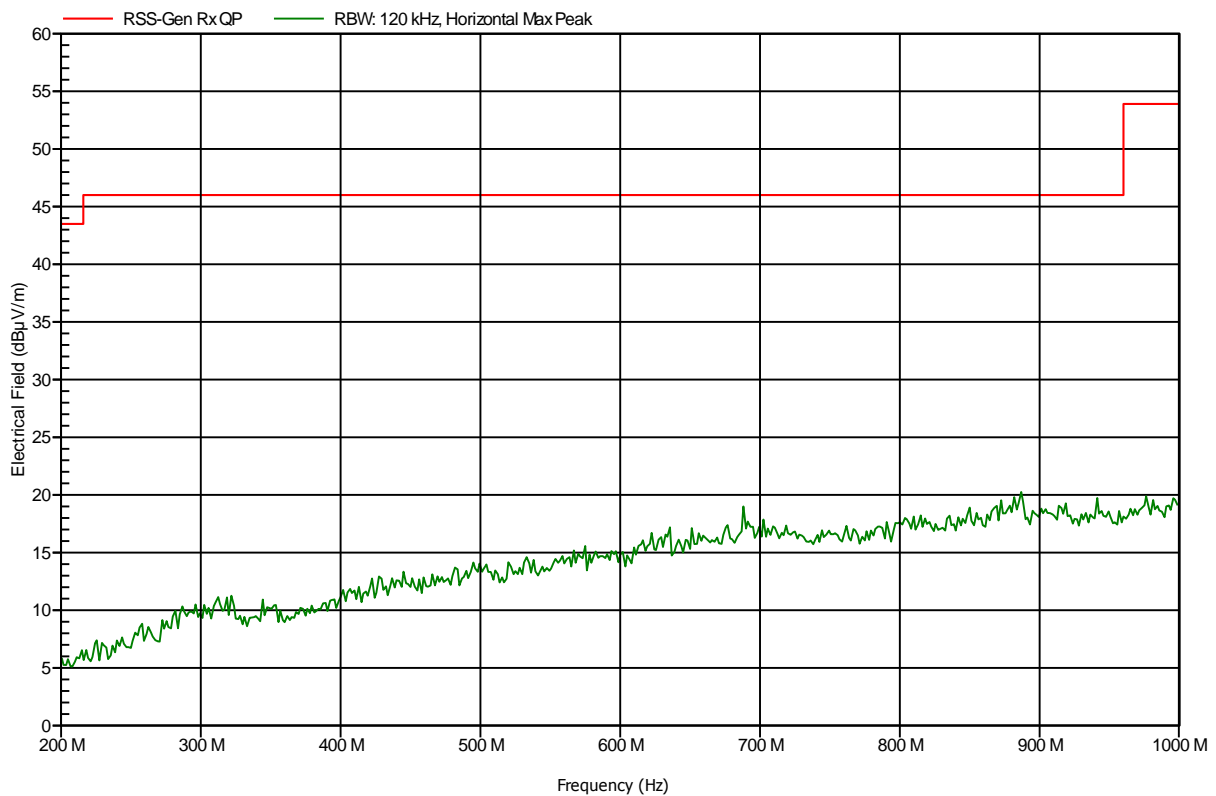


**Spurious emissions according to IC RSS-139**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	RX; UMTS FDD IV; CH: 1450; RX_Idle; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 342

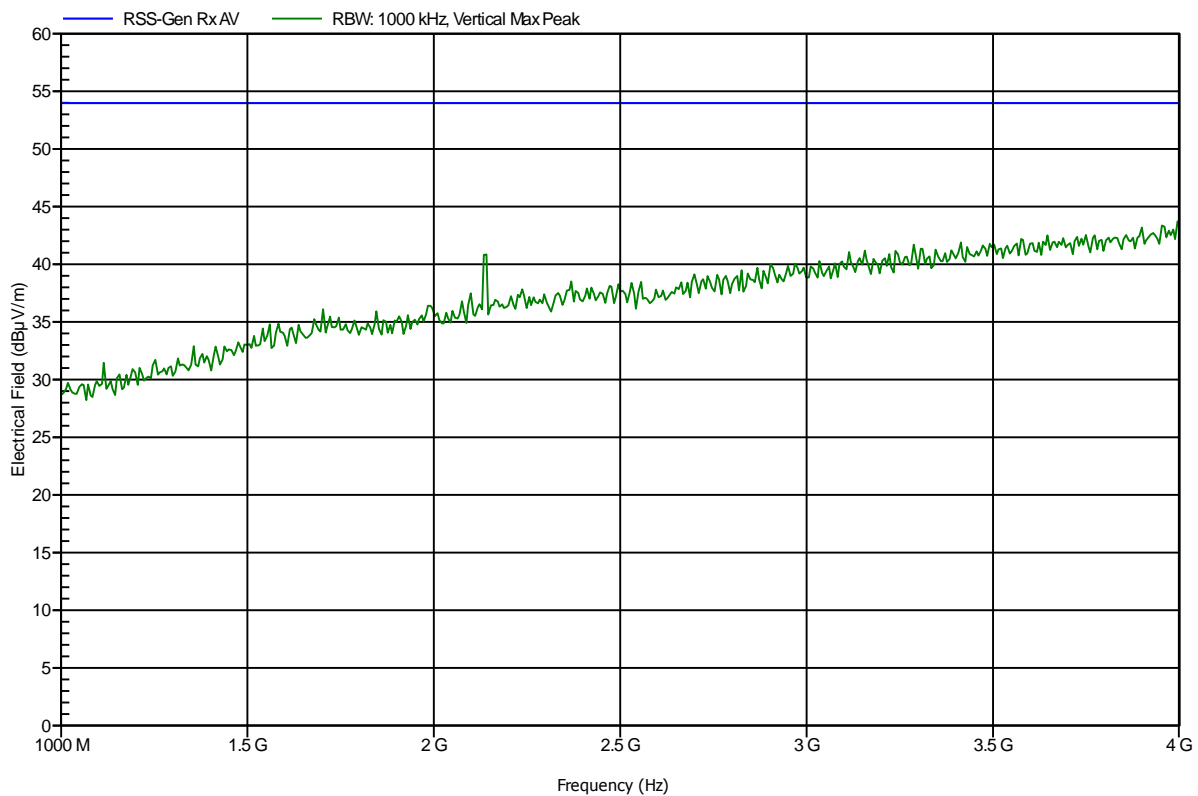


**Spurious emissions according to IC RSS-139**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	RX; UMTS FDD IV; CH: 1450; RX_Idle; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 344

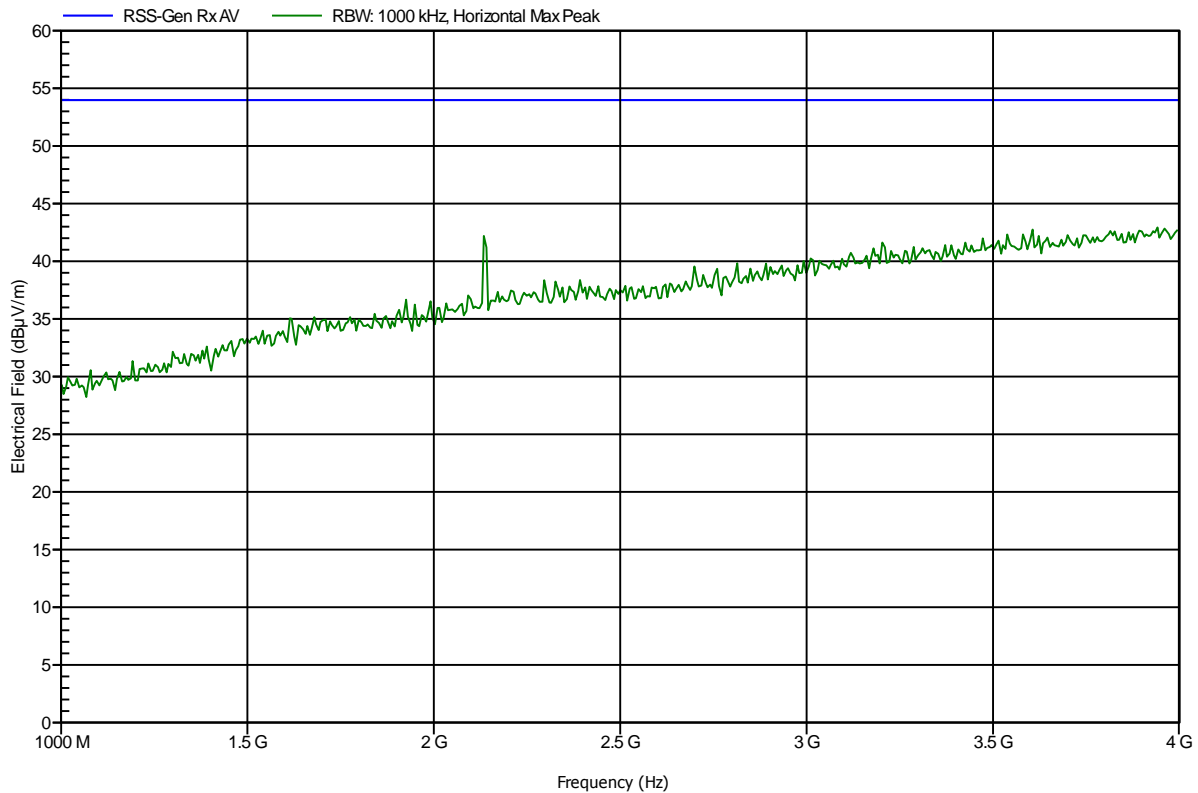


**Spurious emissions according to IC RSS-139**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	RX; UMTS FDD IV; CH: 1450; RX_Idle; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 346

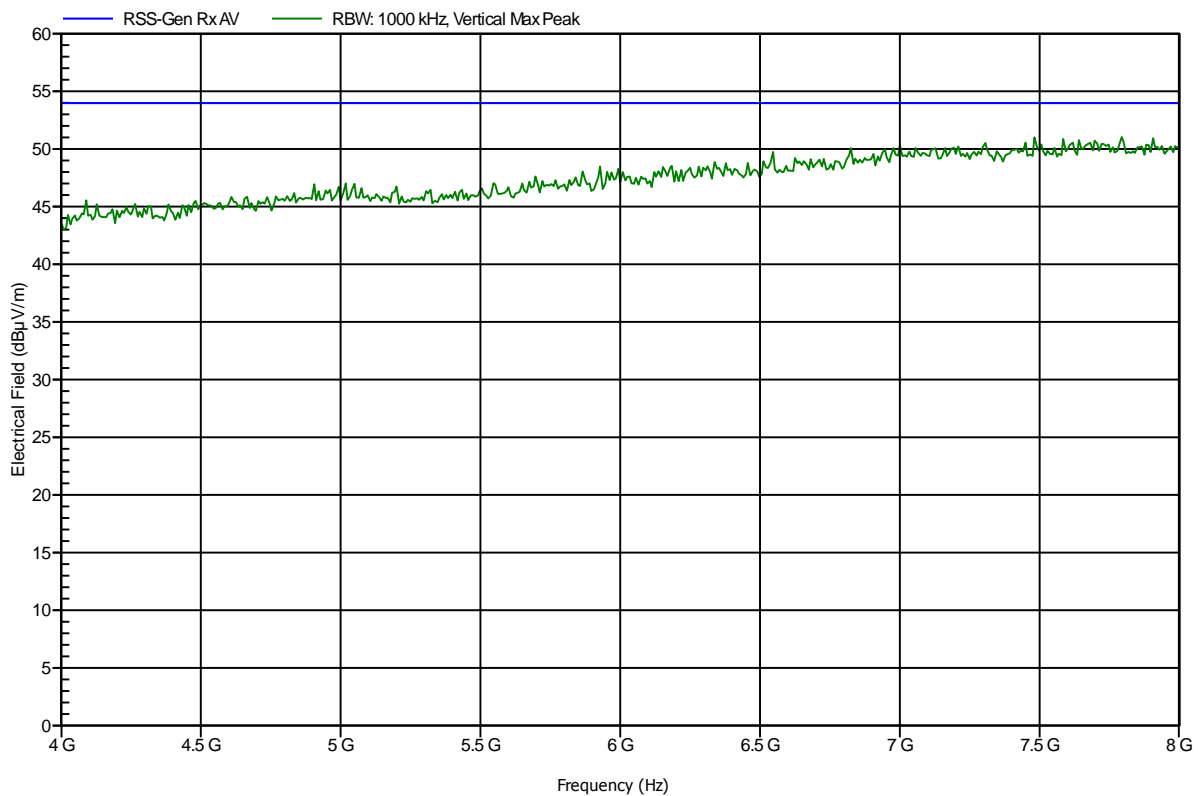


**Spurious emissions according to IC RSS-139**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	RX; UMTS FDD IV; CH: 1450; RX_Idle; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 345



**Spurious emissions according to IC RSS-139**

Project number: G0M-1309-3226

Manufacturer:	Biotronik SE & Co. KG
EUT Name:	Telemonitoring System
Model:	CardioMessenger Smart 3G
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 3,7 V DC (Li-Ion Batt.)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	RX; UMTS FDD IV; CH: 1450; RX_Idle; Ant: integral
Test Date:	2013-12-12
Note:	EUT vertical

Index 347

