



EUROFINS PRODUCT SERVICE GMBH



Testing Cert #1983.01

TEST- REPORT

Compliance Test Report

**FCC PART 15 SUBPART C
IC RSS 210 ISSUE 7**

FCC ID: S4L-REMOTE

Remote Control with Bluetooth

Remote LINK Logbook, Remote LINK Working Time

TEST REPORT NUMBER: G0M21001-2793-P-15



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1 General Information

1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

Eurofins Product Service GmbH is not responsible for any generalisations and conclusions drawn from this report. Any modification of the test item can lead to invalidity of test results and this test report may therefore be not applicable to the modified test item.

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Operator:

10.02.2010

W. Treffke



Date

Eurofins-Lab.

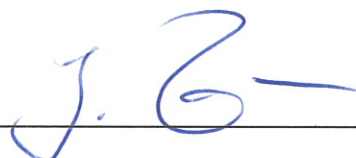
Name

Signature

Technical responsibility for area of testing:

10.02.2010

J. Zimmermann



Date

Eurofins

Name

Signature

1.2 Testing laboratory

EUROFINS PRODUCT SERVICE GMBH
Storkower Strasse 38c
D-15526 Reichenwalde b. Berlin
Germany
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Telefax : +49 33631 888 660

DAR ACCREDITED TESTING LABORATORY
DAR-REGISTRATION NUMBER: DAT-P-268/08

RECOGNIZED NOTIFIED BODY EMC
REGISTRATION NUMBER: BNetzA-bS EMV-07/61

RECOGNIZED NOTIFIED BODY R&TTE
REGISTRATION NUMBER: BNetzA-bS-02/51-53

FCC FILED TEST LABORATORY
REG.-No. 96970

A2LA ACCREDITED TESTING LABORATORY
CERTIFICATE NO. 1983.01

BLUETOOTH QUALIFICATION TEST FACILITY (BQTF)
ACCREDITED BY BLUETOOTH QUALIFICATION REVIEW BOARD

INDUSTRY CANADA FILED TEST LABORATORY
REG. No. IC 3470

Test location, where different:

Name	: ./.
Street	: ./.
Town	: ./.
Country	: ./.
Telephone	: ./.
Fax	: ./.

1.3 Details of approval holder

Name : TomTom International B.V.
Street : Oosterdoksstraat 114
Town : 1001 DK Amsterdam
Country : The Netherlands
Telephone : +31 20 7575832
Fax : +31 20 7575750

Contact : Mr. Christoph Link
Telephone : +31 20 7575832

1.4 Application details

Date of receipt of application : 04.01.2010
Date of receipt of test item : 04.01.2010
Date of test : 04.01.2010, 08.01.2010 & 11.01.2010

1.5 Test item

Description of test item : Remote Control with Bluetooth
Type identification : Remote LINK Logbook, Remote LINK Working Time
Brand Name : TomTom
Hardware version : 1.10
Software version : brn1_fw_0110

Technical data

Frequency range : 2400 - 2483.5MHz
Tested frequencies : F₁ 2402MHz
Tested frequencies : F₂ 2440MHz
Tested frequencies : F₃ 2480MHz
Antenna type : internal
Antenna Gain : 0dBi
Power supply : 3.1VDC (Battery)
Operating mode : duplex
Modulation : FHSS
Device classification : Mobile Device (Human Body distance > 20 cm)

Additional information:

The test sample is designed as Bluetooth device. Its pseudo-random hopping scheme, authentication, receiver parameters, synchronization procedure and other parameters are determined by Bluetooth Core Specification.

According to attached declaration of manufacturer this device don't work in master inquiry mode.

So we have only one frequency hopping system and the hopping sequence of the master inquiry mode is not verified.

Manufacturer:
(if applicable)

Name	: Turck duotec GmbH
Street	: Am Bockwald 2
Town	: 08344 Grünhain-Beierfeld
Country	: Germany

1.6 Test standards

Technical standard	: FCC PART 15 SUBPART C IC RSS 210 ISSUE 7
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2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations as specified in 2.4 were ascertained in the course of the tests performed.



2.2 Test environment

Temperature : 22 ... 26°C

Relative humidity content : 20 ... 75%

Air pressure : 86 ... 103kPa

Extreme conditions parameters:

V_{nom}	:	3.1VDC
$V_{min} (V_{nom}-15\%)$	:	--
$V_{max} (V_{nom}+15\%)$	:	--
T_{nom}	:	25°C

2.3 Test equipment utilized

Measurement Equipment List			
No.	Measurement device:	Type:	Manufacturer:
ETS 0178	Open area test side	10m	Eurofins Product Service
ETS 0291	Loop antenna	HFH2-Z2	Rohde & Schwarz
ETS 0383	Spectrum Analyzer	FSU26	Rohde & Schwarz

2.4 Test results

☒ 1st test

☐ test after modification

☐ production test

Test case	Subclause	Required	Test passed	Test failed
INFORMATIONAL TRANSMITTER PARAMETERS				
Occupied Bandwidth	IC RSS-Gen. 4.6.1	☒		
TRANSMITTER PARAMETERS				
20dB Bandwidth	FCC § 15.247(1) IC RSS-210 § A8.1	☒	☒	☐
Frequency hopping channel number	FCC § 15.247(1iii) IC RSS-210 § A8.1	☒	☒	☐
Frequency hopping channel spacing	FCC § 15.247(1) IC RSS-210 § A8.1	☒	☒	☐
Time of occupancy (dwell time)	FCC § 15.247(1iii) IC RSS-210 § A8.1	☒	☒	☐
Maximum peak conducted output power	FCC § 15.247(b) IC RSS-210 § A8.4	☒	☒	☐
Maximum peak e.i.r.p. output power	FCC § 15.247(b) IC RSS-210 § A8.4	☒	☒	☐
Band-edge Compliance	FCC § 15.247(d) IC RSS-210 § A8.5	☒	☒	☐
Radiated spurious emissions	FCC § 15.247(d) FCC § 15.209 IC RSS-210 § A8.5 IC RSS-Gen § 4.9	☒	☒	☐
RECEIVER PARAMETERS				
Radiated spurious emissions	FCC § 15.109 IC RSS-Gen § 4.10 IC RSS-Gen § 7.2.3	☐	☐	☐
POWER LINE PARAMETERS				
AC power line conducted emissions	FCC § 15.207 IC RSS-Gen. 7.2.2	☐	☐	☐

3 Informational Transmitter parameters

3.1 Transmitter Modes for conformance testing

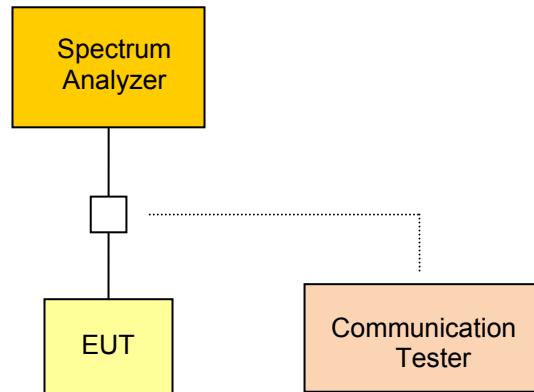
The following transmission modes are elected for compliance testing.

TEST MODE A	
Conditions	
Spread Spectrum :	☒ Yes ☐ No
Spreading Technique :	FHSS
Modulation :	GFSK
Data rate :	1Mbps
Duty Cycle :	47%

3.2 Occupied Bandwidth

According RSS-Gen Section 4.6.1 the 99% emission bandwidth occupied by the modulated transmitted signal has to be reported as calculated or measured.

3.2.1 Measurement procedure



The eut is connected to a spectrum analyzer and set to transmission mode (using a communication tester if needed) with maximum power under normal test conditions. The span of the analyzer is set wide enough to capture all significant emissions of the modulation spectrum. The resolutions bandwidth is set as close as possible to 1% of the selected span without being below 1%. The occupied bandwidth is then measured evaluated by an internal measurement procedure of the analyzer.

3.2.2 Results

Transmitter occupied bandwidth			
Measurement Conditions			
Test mode :		A	
Power occupation :		99%	
Channel [MHz]	Lower edge frequency [MHz]	Upper edge frequency [MHz]	Occupied Bandwidth [MHz]
2402	2401.5468	2402.4532	0.9064
2441	2440.5468	2441.4488	0.9020
2480	2479.5468	2480.4488	0.9020
See attached diagram in Annex			
Verdict			PASS

4 Transmitter parameters

4.1 20dB Bandwidth

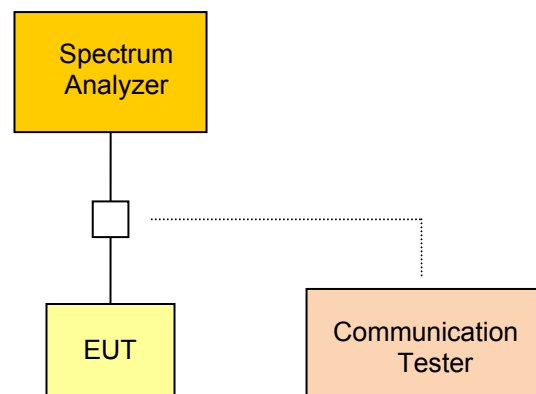
According FCC rules 47 CFR 15.247(1) and RSS-210 Section A8.1 the 20dB Bandwidth determines the necessary carrier spacing used in the frequency hopping system.

4.1.1 Limits

According FCC and IC rules frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

20dB Bandwidth limits	
Output Power	20dB Bandwidth Limit
$\leq 125\text{mW} / 21\text{dBm}$	1.5 * carrier spacing
125mW – 1W / 21 – 30dBm	1.0 * carrier spacing

4.1.2 Measurement procedure



The eut is connected to a spectrum analyzer and set to transmission mode (using a communication tester if needed) with maximum power under normal test conditions. The resolution bandwidth is set to 1% of the 20dB bandwidth of the emission spectrum ($VBW \geq RBW$). The center frequency is set to the hopping channel center frequency. The span of the analyzer is set to 2 -3 times the 20dB bandwidth. The bandwidth is determined using markers with peak detector and max hold.

4.1.3 Results

20dB Bandwidth		
Measurement Conditions		
Test mode :	A	
Max. output power :	2.05dBm	
Carrier spacing :	1MHz	
Channel [MHz]	20dB Bandwidth [MHz]	Bandwidth Limit [MHz]
2402	0.9306	1.5MHz
2441	0.9350	1.5MHz
2480	0.9394	1.5MHz
See attached diagrams in Annex		
Measurement uncertainty		4.22dB
Verdict		PASS

4.2 Frequency hopping channel number

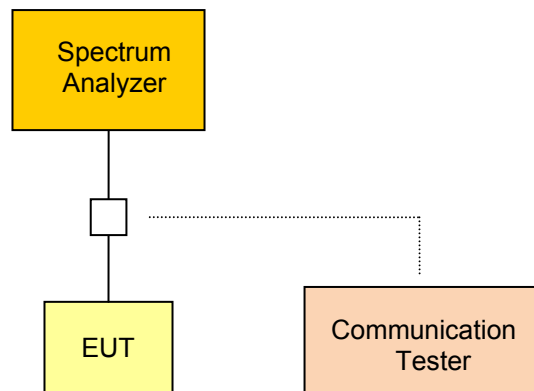
According FCC rules 47 CFR 15.247(1iii) and RSS-210 Section A8.1 the number of hopping channels used, determines if the system can be certified as a hopping system and also the power level the system can use.

4.2.1 Limits

According FCC and IC rules frequency hopping systems shall use a minimum of 15 hopping channels. If the hopping system uses at least 75 hopping channels, the maximum conducted output power can be increased from 0.125W to 1W.

Frequency hopping channel number limits	
Max. conducted output Power	Minimum number of channels
$\leq 125\text{mW} / 21\text{dBm}$	15
$125\text{mW} - 1\text{W} / 21 - 30\text{dBm}$	75

4.2.2 Measurement procedure



The eut is connected to a spectrum analyzer and set to transmission mode (using a communication tester if needed) with hopping activated. The resolution bandwidth is set to 1% of the span ($VBW \geq RBW$) and the span is set to 2400 – 2483.5MHz. The power level is measured with peak detector and max hold.

4.2.3 Results

Number of hopping channels	
Measurement Conditions	
Test mode :	A
Max. output power :	2.05dBm
Number of channels	Hopping channel limit
79	15
See attached diagrams in Annex	
Measurement uncertainty	4.22dB
Verdict	PASS

4.3 Frequency hopping channel spacing

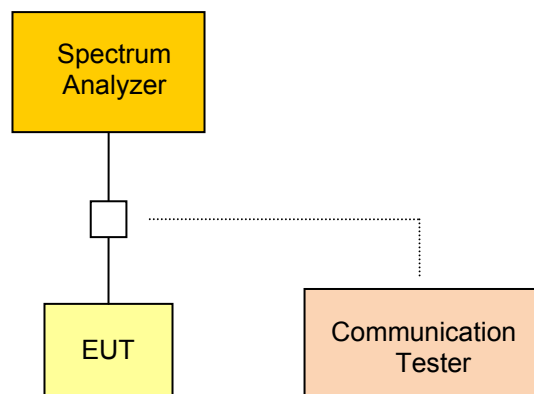
According FCC rules 47 CFR 15.247(1) and RSS-210 Section A8.1 the minimum hopping channel frequency spacing is correlated to the 20dB bandwidth of the hopping channel emission and and maximum peak output power.

4.3.1 Limits

According FCC and IC rules frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Frequency hopping channel spacing limits	
Max. conducted output Power	Minimum hopping channel spacing
$\leq 125\text{mW} / 21\text{dBm}$	$\geq 25\text{kHz}$ or $\frac{2}{3}$ of 20dB bandwidth
$125\text{mW} - 1\text{W} / 21 - 30\text{dBm}$	$\geq 25\text{kHz}$ or 20dB bandwidth

4.3.2 Measurement procedure



The eut is connected to a spectrum analyzer and set to transmission mode (using a communication tester if needed) with hopping activated. The resolution bandwidth is set to 1% of the span ($\text{VBW} \geq \text{RBW}$) and the span is set wide enough to capture two adjacent channels. The power level is measured with peak detector and max hold.

4.3.3 Results

Frequency hopping channel spacing	
Measurement Conditions	
Test mode :	A
Tested channel :	2441MHz
Max. output power :	2.05dBm
Channel spacing [kHz]	Channel spacing limit [kHz]
1013.2	$\frac{2}{3} * 935 = 623.3$
See attached diagrams in Annex	
Measurement uncertainty	4.22dB
Verdict	PASS

4.4 Time of occupancy (Dwell time)

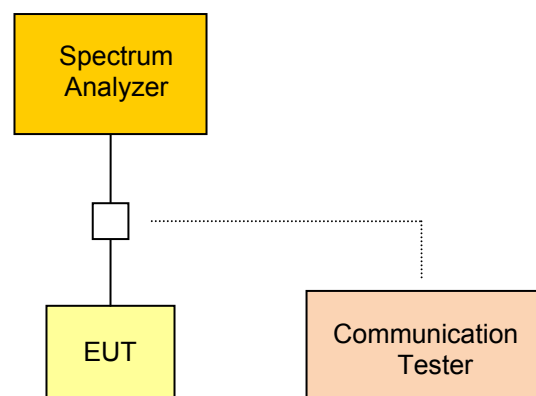
According FCC rules 47 CFR 15.247(1iii) and RSS-210 Section A8.1 the average time of occupancy on any channel is limited.

4.4.1 Limits

According FCC and IC rules the average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

Frequency hopping channel number limits	
Dwell time limit	Channel occupancy period
0.4s	$0.4 * \text{Number of hopping channels}$

4.4.2 Measurement procedure



The eut is connected to a spectrum analyzer and set to transmission mode (using a communication tester if needed) with hopping activated. The resolution bandwidth is set to 1MHz ($VBW \geq RBW$) and the span is set to zero centered on a hopping channel. The sweep time is set large enough to capture the dwell time. The power level is measured with peak detector and max hold.

4.4.3 Results

Time of occupancy (Dwell time)	
Measurement Conditions	
Test mode :	A
Tested channel :	2441MHz
Number of hopping channels :	79
Time of occupancy	Channel occupancy periode
$64 * 2.9136\text{ms} = 0.1865\text{s}$	31.2s
See attached diagrams in Annex	
Measurement uncertainty	4.22dB
Verdict	PASS

4.5 Maximum peak conducted output power

According FCC rules 47 CFR 15.247(b1) and RSS-210 Section A8.4 the maximum peak conducted output power is limited and has been verified.

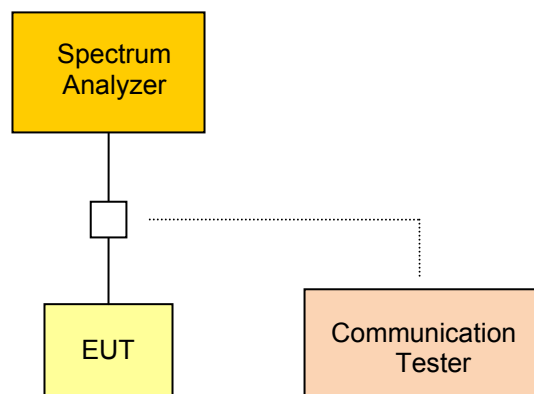
4.5.1 Limits

For frequency hopping systems operating in the band 2400-2483.5 MHz employing at least 75 hopping channels, the maximum peak conducted output power shall not exceed 1 W; for all other frequency hopping systems in the band, the maximum peak conducted output power shall not exceed 0.125 W.

Transmitter spurious emission limits	
Number of Hopping Channels	Conducted Power Limit
≥ 75	1W (30dBm)*
15 - 74	125mW (21dBm)*

*) The conducted output power limit specified above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.5.2 Measurement procedure



The EUT is connected to a spectrum analyzer and set to transmission mode (using a communication tester if needed) with maximum power under normal test conditions. The resolution bandwidth is set higher than the 20dB Bandwidth of the emission spectrum ($VBW \geq RBW$). The span of the analyzer is set larger than 5 times the resolution bandwidth. The maximum power emitted by the EUT is measured using peak detector and max hold.

According to 47 CFR 15.31 battery power equipment is measured using new batteries and equipment using external power supply is measured with 85%, 100% and 115% of the nominal rated supply voltage.

4.5.3 Results

Maximum peak conducted output power		
Measurement Conditions		
Test mode :	A	
Antenna gain :	0dBi	
Power correction :	0dB	
Number of Hopping channels :	79	
Channel [MHz]	Conducted output power [dBm]	Power Limit [dBm]
2402	2.05	30
2441	1.54	30
2480	0.53	30
See attached diagrams in Annex		
Measurement uncertainty		4.22dB
Verdict		PASS

4.6 Maximum e.i.r.p. output power

According FCC rules 47 CFR 15.247(b1) and RSS-210 Section A8.4 the maximum peak e.i.r.p. conducted output power is limited and has be verified.

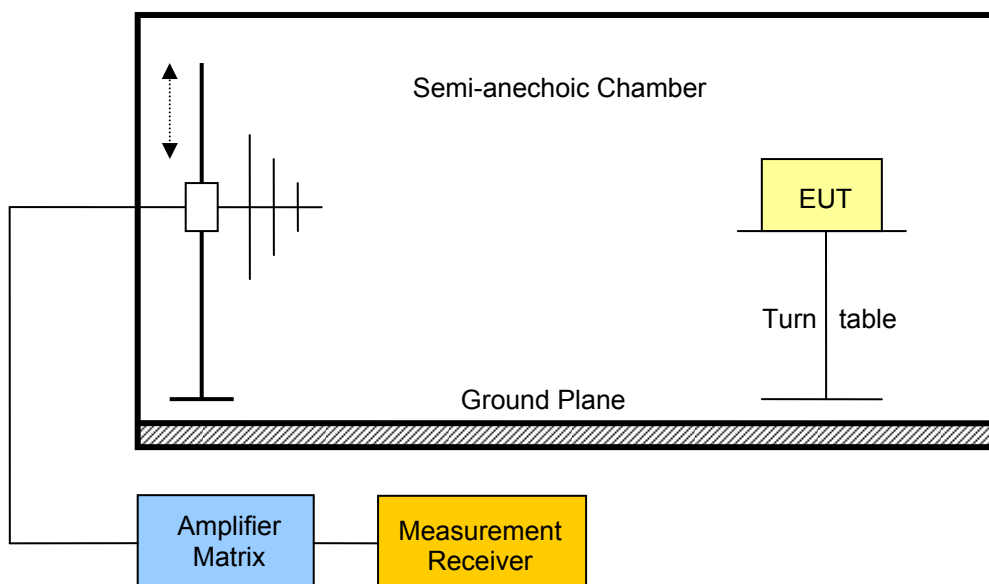
4.6.1 Limits

According to the FCC Rules the conducted output power limit specified is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. This translates to the following e.i.r.p. power limits.

Transmitter spurious emission limits	
Number of Hopping Channels	E.I.R.P. Power Limit
≥ 75	4W e.i.r.p. (36dBm e.i.r.p.)
15 - 74	500mW e.i.r.p. (27dBm e.i.r.p.)*

*) According RSS-210 the e.i.r.p. output power is generally limited to 4W (36dBm) without limit on the number of hopping channels.

4.6.2 Measurement procedure



The eut is placed on a table in a semi-anechoic chamber. The eut is activated with the transmission modes stated in the test report. The emission level of all emission up to the 10th harmonic is scanned. In the frequency range below 1GHz a resolution bandwidth of 100kHz is used and above 1GHz a resolution bandwidth of 1MHz is used. To obtain the peak emission level the eut is rotated through 360° and the hight of the measurement antenna changed. All emission that come to within 20dB of the limit line are recorded.

Alternate validation procedure

Alternatively the e.i.r.p. power is calculated from the declared antenna gain and the measured maximum peak conducted output power.

Which method has been used is stated in the result table.

4.6.3 Results

Maximum e.i.r.p. output power		
Measurement Conditions		
Test mode :	A	
Validation methode :	☐ Measurement ☒ Alternate	
Antenna gain :	0dBi	
Power correction :	0dB	
Channel [MHz]	E.I.R.P. output power [dBm e.i.r.p.]	E.I.R.P. Power Limit [dBm e.i.r.p.]
2402	2.05	36
2441	1.54	36
2480	0.53	36
See attached diagrams in Annex		
Measurement uncertainty		4.22dB
Verdict		PASS

4.7 Transmitter band-edge compliance

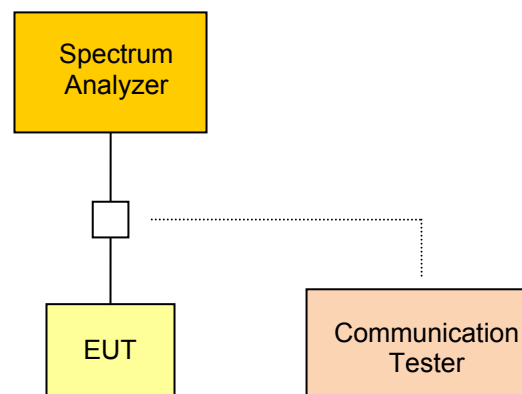
According FCC rules 47 CFR 15.209, 15.247(d) and RSS-210 Section A8.5 the emission level of out-of-band emissions are limited and has to be validated.

4.7.1 Limits

The emission limit of out of band emission in any 100kHz bandwidth outside the frequency band in which the spread spectrum device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits (see "Transmitter spurious emissions"-measurement) is not required.

Transmitter band-edge emission limits	
TX-Power Detector	Out of band attenuation
Peak	-20dBc/100kHz
RMS	-30dBc/100kHz

4.7.2 Measurement procedure



The EUT is connected to a spectrum analyzer and set to transmission mode without hopping with maximum power under normal test conditions. The span of the analyzer is set large enough to capture the maximum emission within the emission band as well as any modulation product which fall outside the authorized band of operation. The resolution bandwidth is set to 1% of the span ($VBW \geq RBW$). The

A marker is set on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Using the delta-marker function the highest peak of the in-band emission is measured.

The same measurement procedure is repeated in hopping mode.

4.7.3 Results

Transmitter band-edge emissions		
Measurement Conditions		
Test mode :	A	
Power mode :	Peak	
Mode	Lower edge emission [dBc]	Upper edge emission [dBc]
Static	-37.90	-36.29
Hopping	-34.87	-33.76
See attached diagram in Annex		
Verdict		PASS

4.8 Transmitter spurious emissions

According FCC rules 47 CFR 15.209, 15.247(d) and RSS-210 Section A8.5 unwanted emissions in the spurious domain are power limited and has to be validated.

4.8.1 Limits

The emission limit of out of band emission in any 100kHz bandwidth outside the frequency band in which the spread spectrum device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits (see "Transmitter spurious emissions"-measurement) is not required.

Transmitter band-edge emission limits	
TX-Power Detector	Out of band attenuation
Peak	-20dBc/100kHz
RMS	-30dBc/100kHz

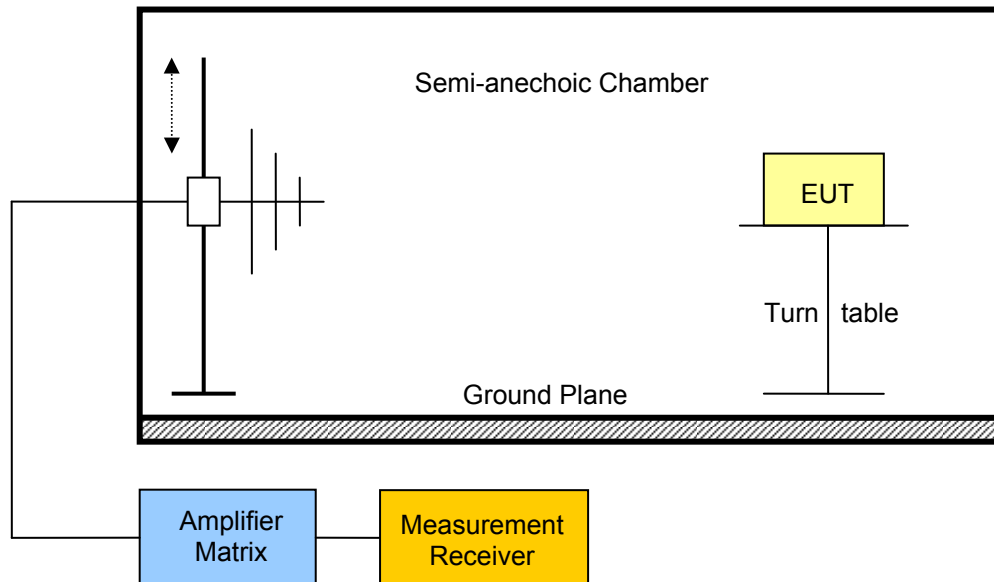
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Transmitter restricted band spurious emission limits				
Frequency range [MHz]	Detector	Limit [$\mu\text{V/m}$]	Calculated Limit 3m [dB $\mu\text{V/m}$]	Measurement 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

When average radiated emission measurements are specified, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

4.8.2 Measurement procedure

The spurious emission measurement is performed on 3m a semi-anechoic test site.



The eut is placed on a non-metallic table. Any emission is received by the measurement antenna and measured via a measurement receiver connected to the antenna. To obtain the maximum emission the eut is rotated through 360°.

Due to practical reasons the spurious emission level check is first performed with a peak detector and the quasi-peak and average limits.

If any emission is detected that gets close to the emission limit the detector is changed and the quasi-peak or average detector is used. Which detector is used is determined by the emission frequency. If pulsed transmission is used, averaging over the pulse train is used.

The measurement values are also corrected to obtain the field strength values at the defined measurement distances of the emission limits.

The measurement is performed over the frequency range of 30MHz up to the tenth harmonic.

4.8.3 Results

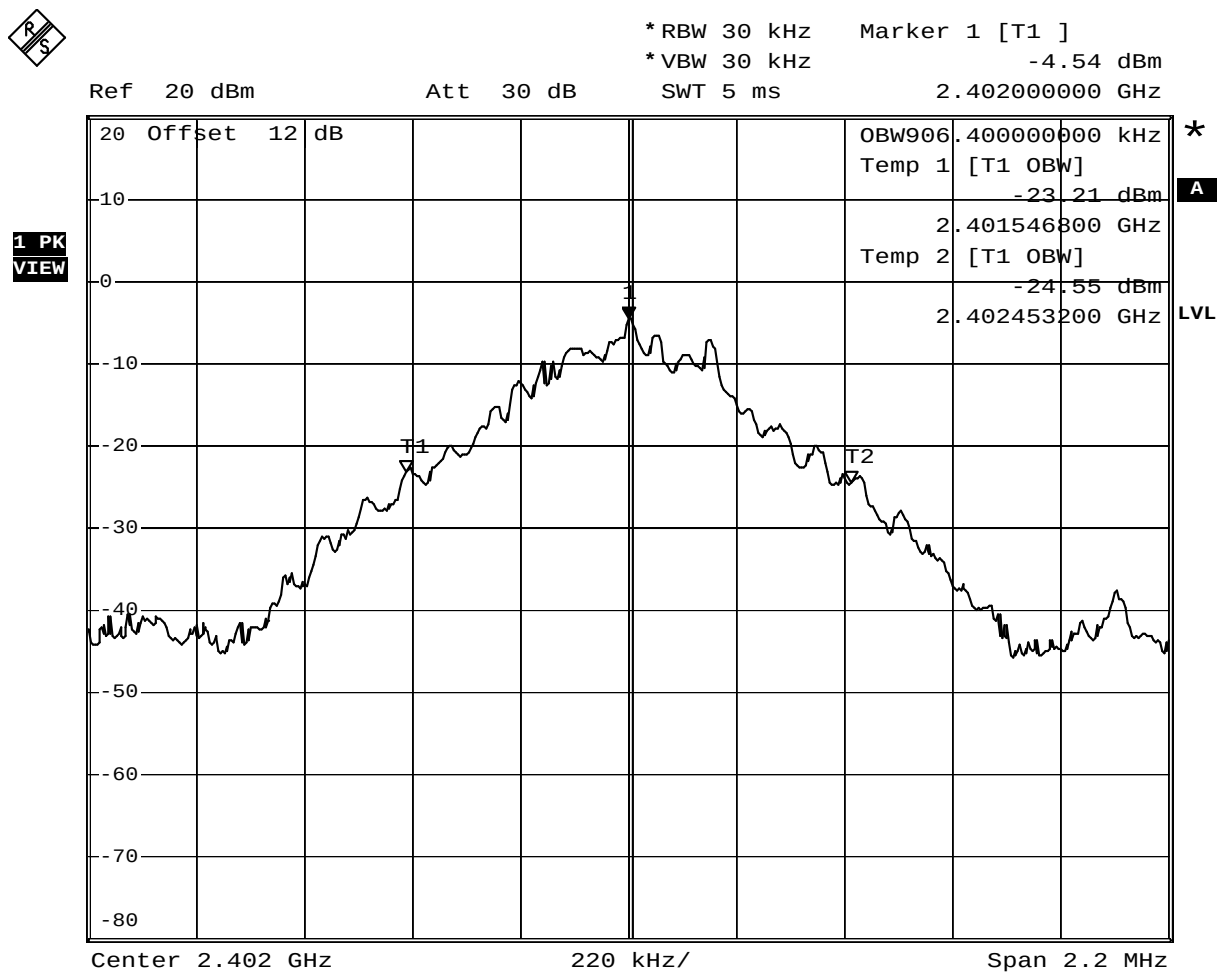
Transmitter spurious Emissions						
Measurement Conditions						
Test mode :	A					
Measurement distance :	3m					
Modulated :	☒ Yes ☐ No					
Peak field strength :	95.13dB μ V/m					
Peak emission limit :	75.13dB μ V/m					
Channel Frequency [MHz]	Emission Frequency [MHz]	Polarization	Measured Field Strength * [dB μ V/m]	Limit@3m [dB μ V/m]	Detector	Margin [dB]
2402	4802	Horizontal	56.4	74	peak	-17.6
2402	4802	Horizontal	51.0	54	average	-3.0
2441	4882	Horizontal	57.3	74	peak	-16.7
2441	4882	Horizontal	49.6	54	average	-4.4
2480	4963	Horizontal	55.2	74	peak	-18.8
2480	4960	Horizontal	47.2	54	average	-6.8
See attached diagrams in Annex						
Verdict					PASS	

* **Note** : The measured field strength values are corrected to reflect the field strength values at the measurement distance stated in the table. Correction acc. $20 \cdot \log_{10}(\text{measurement distance}/\text{limit distance})$.

Annex B Occupied Bandwidth, 20 dB Bandwidth

RSS Gen Occupied Bandwidth

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	4.4.1 Occupied Bandwidth
Comment 1	Channel.: 0 / 2402 MHz
Comment 2	A spectrum analyzer with an integrated 99% power bandwidth function is used
Comment 3	



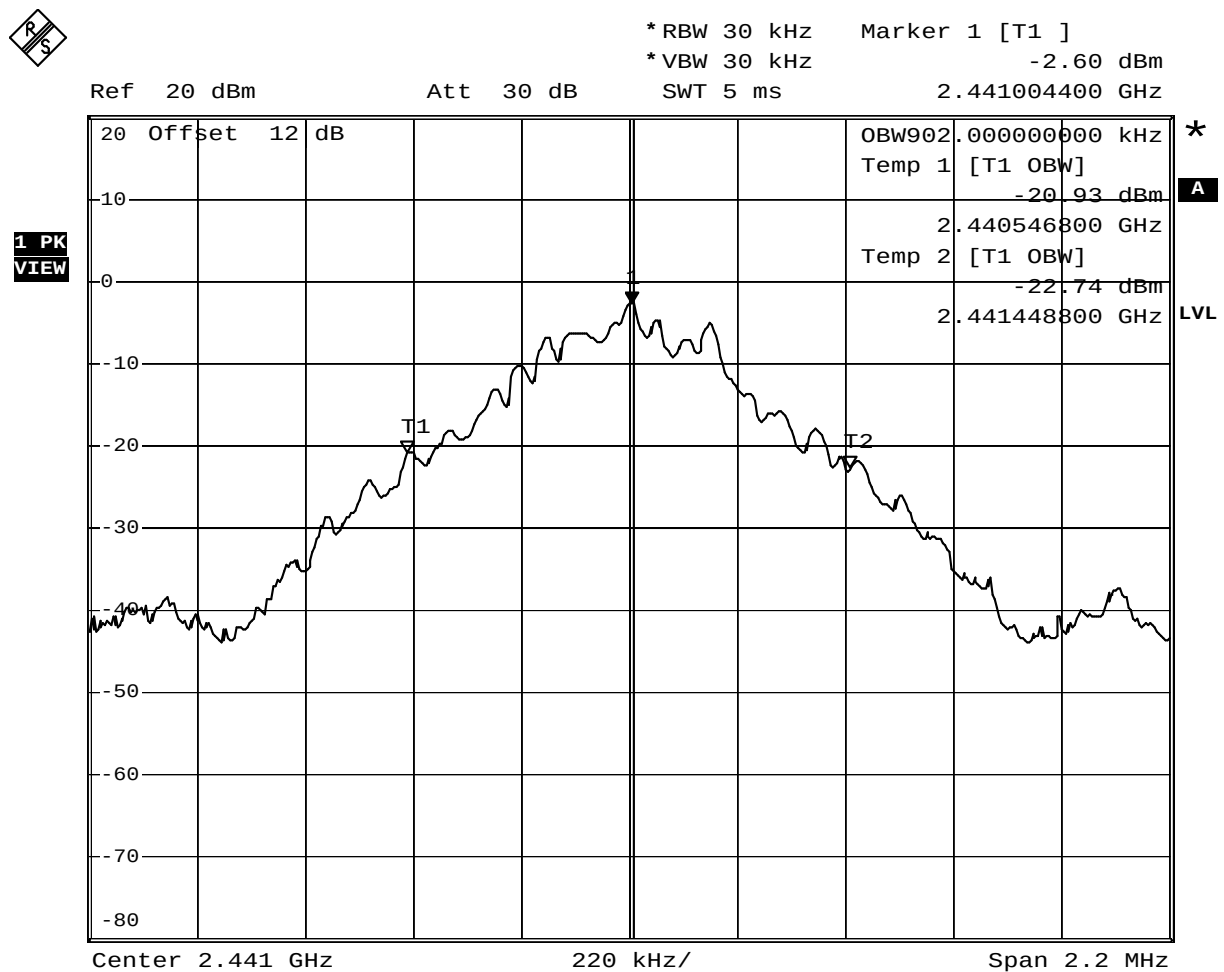
Comment: Occupied bandwidth: 906.4 KHz
Date: 8.FEB.2010 07:50:13

Measurement diagram

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

RSS Gen Occupied Bandwidth

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	4.4.1 Occupied Bandwidth
Comment 1	Channel.: 39 / 2441 MHz
Comment 2	A spectrum analyzer with an integrated 99% power bandwidth function is used
Comment 3	



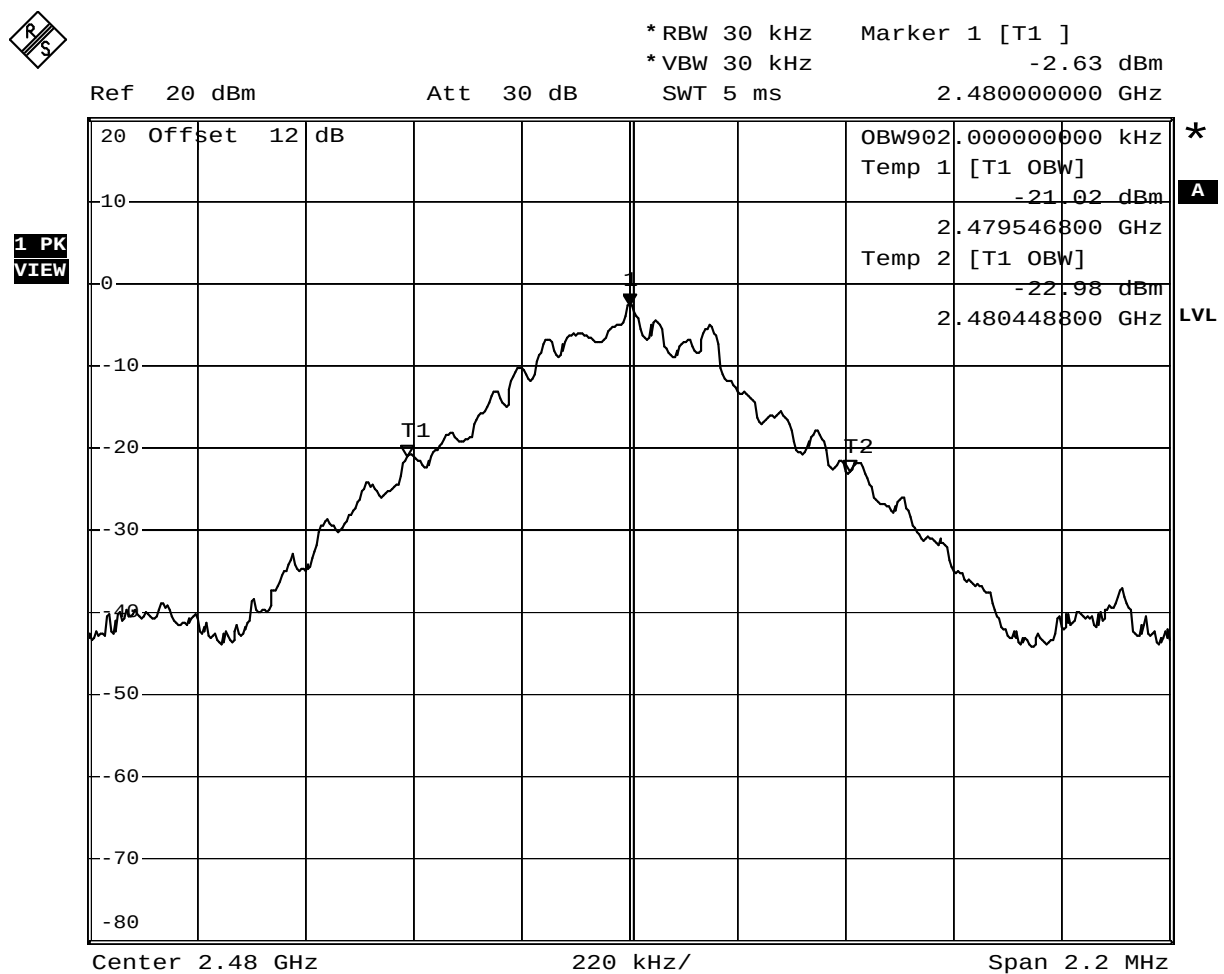
Comment: Occupied bandwidth: 902 KHz
Date: 8.FEB.2010 08:06:44

Measurement diagram

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

RSS Gen Occupied Bandwidth

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	4.4.1 Occupied Bandwidth
Comment 1	Channel.: 78 / 2480 MHz
Comment 2	A spectrum analyzer with an integrated 99% power bandwidth function is used
Comment 3	



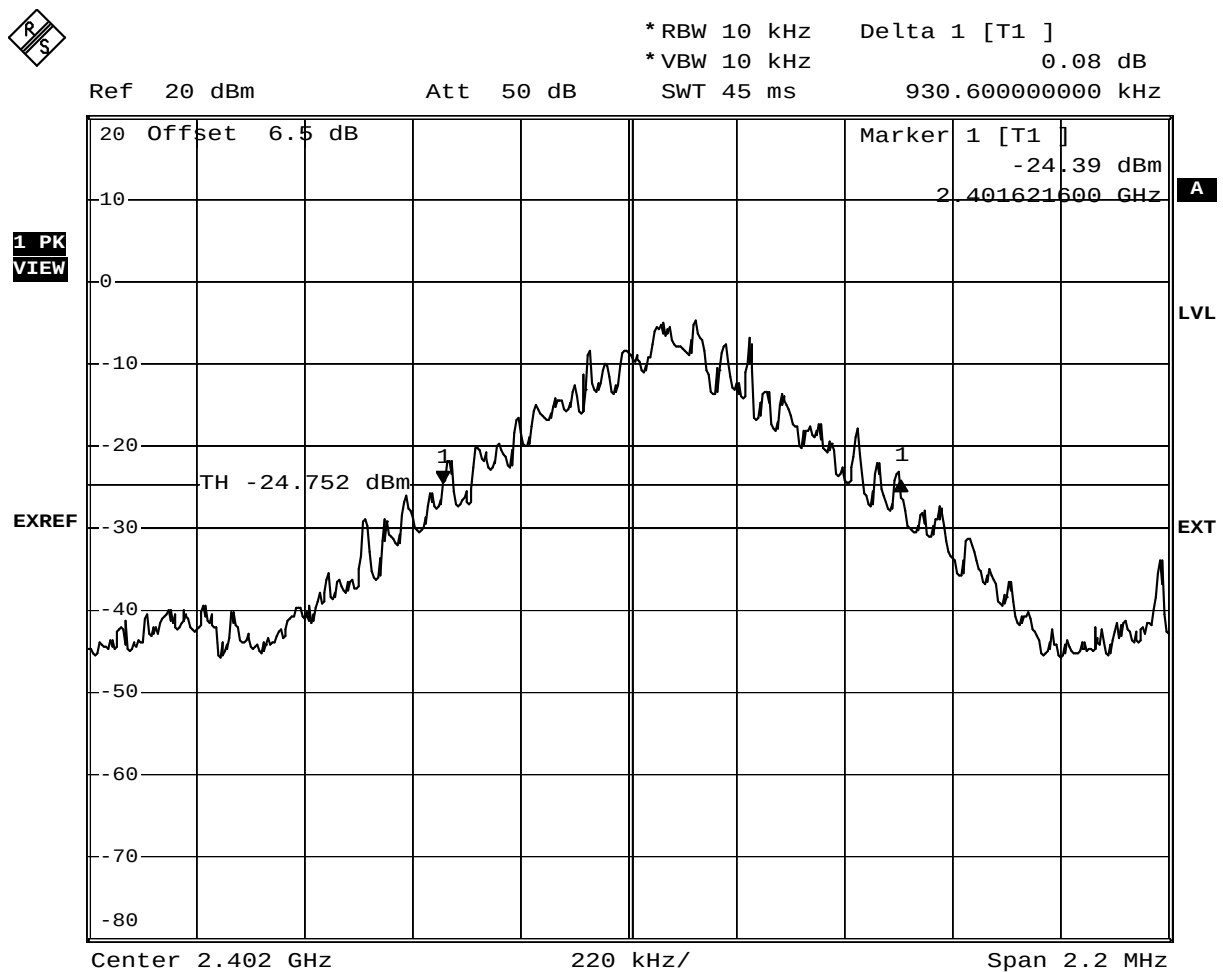
Comment: Occupied bandwidth: 902 KHz
Date: 8.FEB.2010 08:09:07

Measurement diagram

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

FCC part 15.247
20 dB bandwidth

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(a)
Comment 1	20 dB bandwidth
Comment 2	Channel.: 0 / 2402 MHz / GFSK
Comment 3	



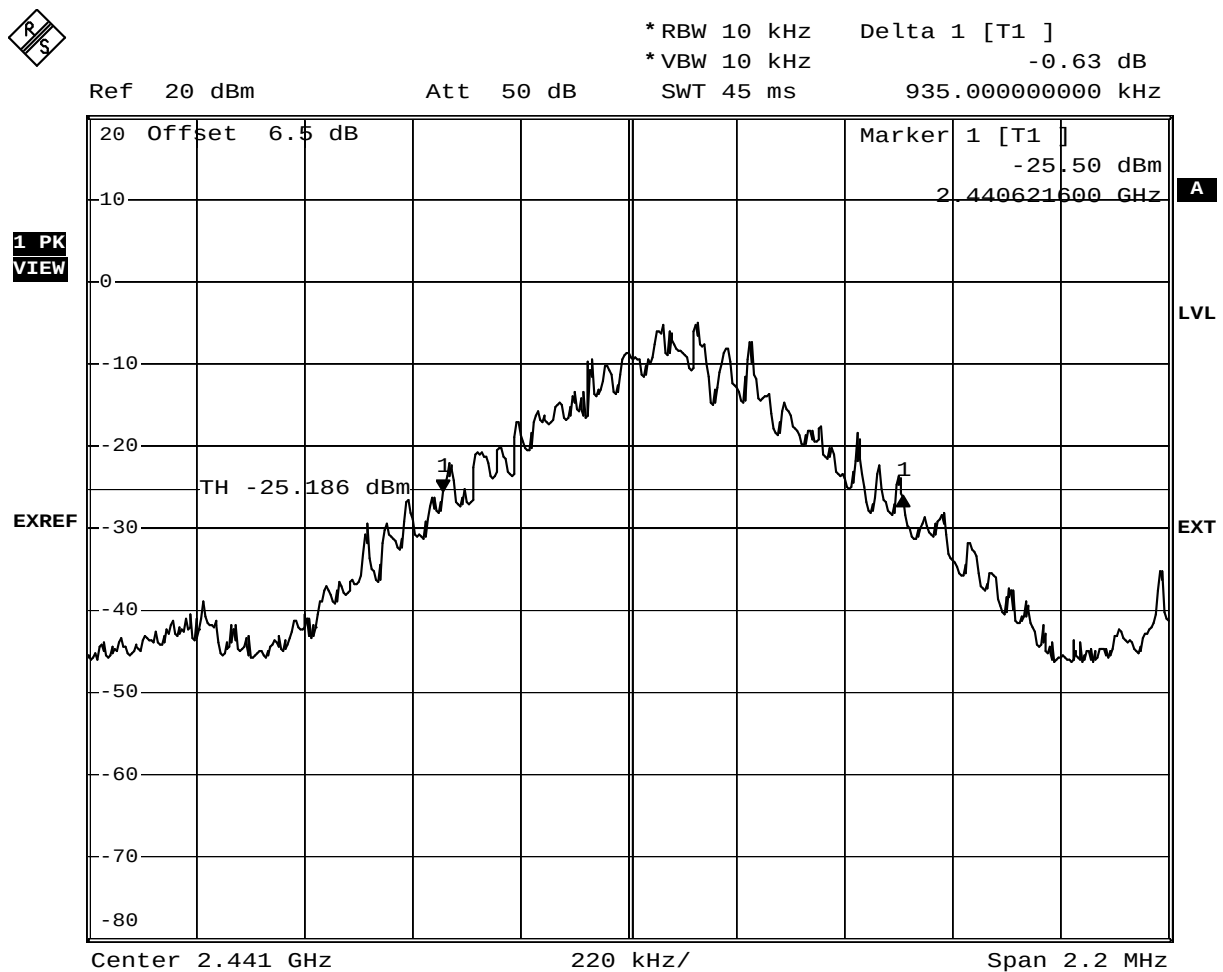
Comment: 20 dB bandwidth: 930.6 KHz
Date: 4.FEB.2010 15:11:15

Measurement diagram

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

FCC part 15.247
20 dB bandwidth

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(a)
Comment 1	20 dB bandwidth
Comment 2	Channel.: 39 / 2441 MHz
Comment 3	



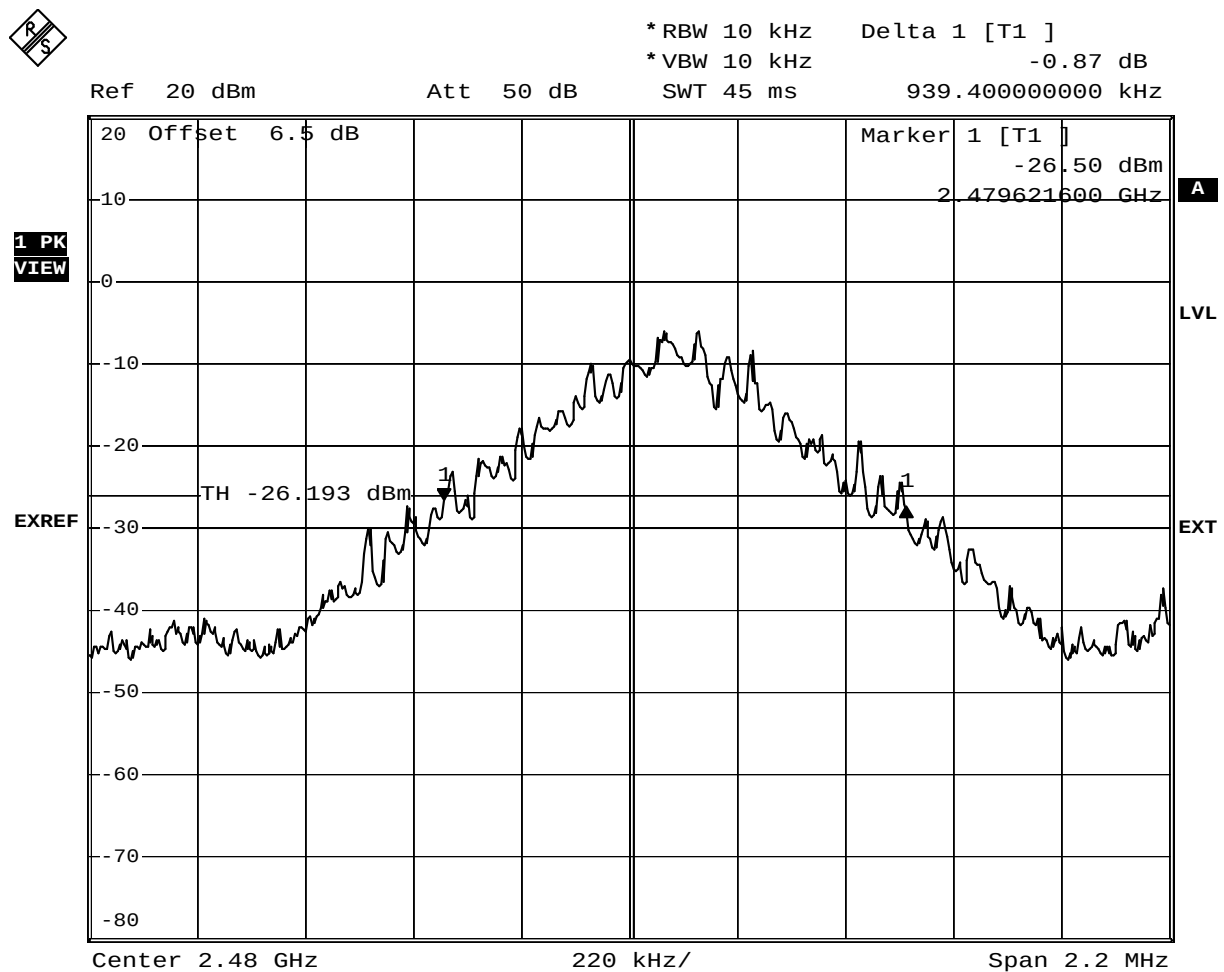
Comment: 20 dB bandwidth: 935 KHz
Date: 4.FEB.2010 15:13:35

Measurement diagram

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

FCC part 15.247
20 dB bandwidth

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(a)
Comment 1	20 dB bandwidth
Comment 2	Channel.: 78 / 2480 MHz
Comment 3	



Comment: 20 dB bandwidth: 939.4 KHz
 Date: 4.FEB.2010 15:15:16

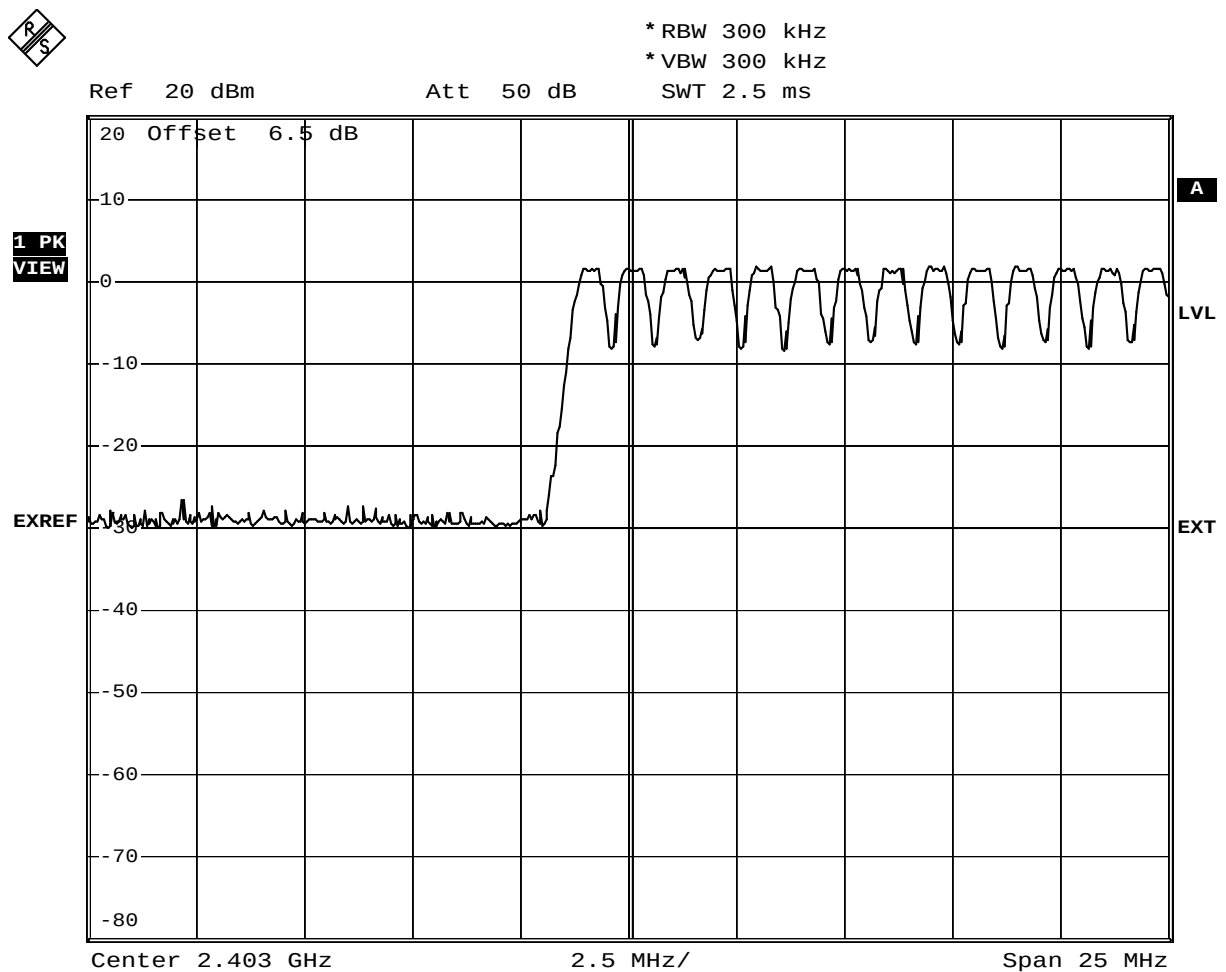
Measurement diagram

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

Annex C Number of hopping channels

FCC part 15.247
Number of hopping frequencies

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(a)
Comment 1	Number of hopping frequencies
Comment 2	Channel.: 0-13
Comment 3	



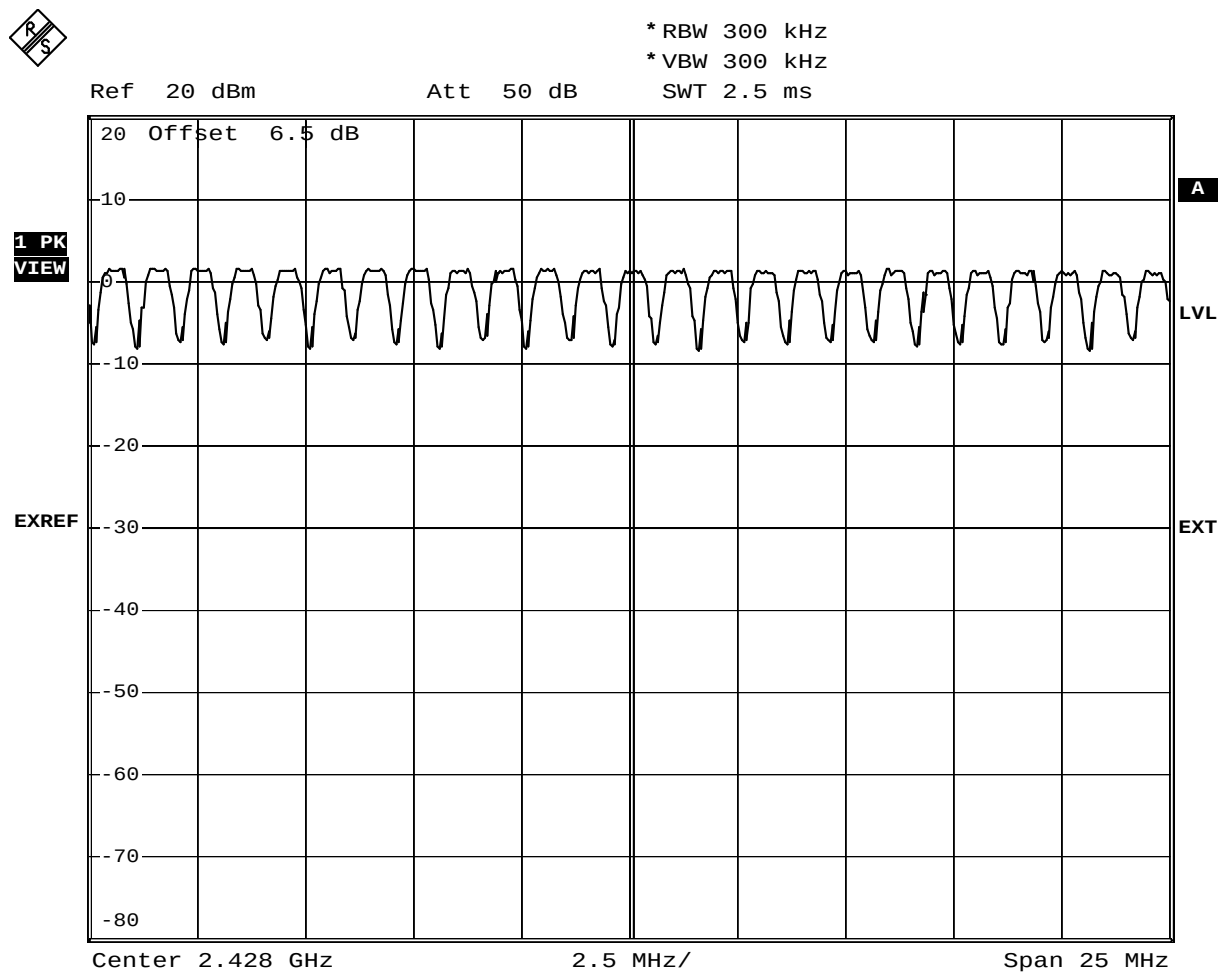
Comment: Number of hopping frequencies
Date: 4.FEB.2010 15:47:01

Measurement diagram

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

FCC part 15.247
Number of hopping frequencies

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(a)
Comment 1	Number of hopping frequencies
Comment 2	Channel.: 14-38
Comment 3	



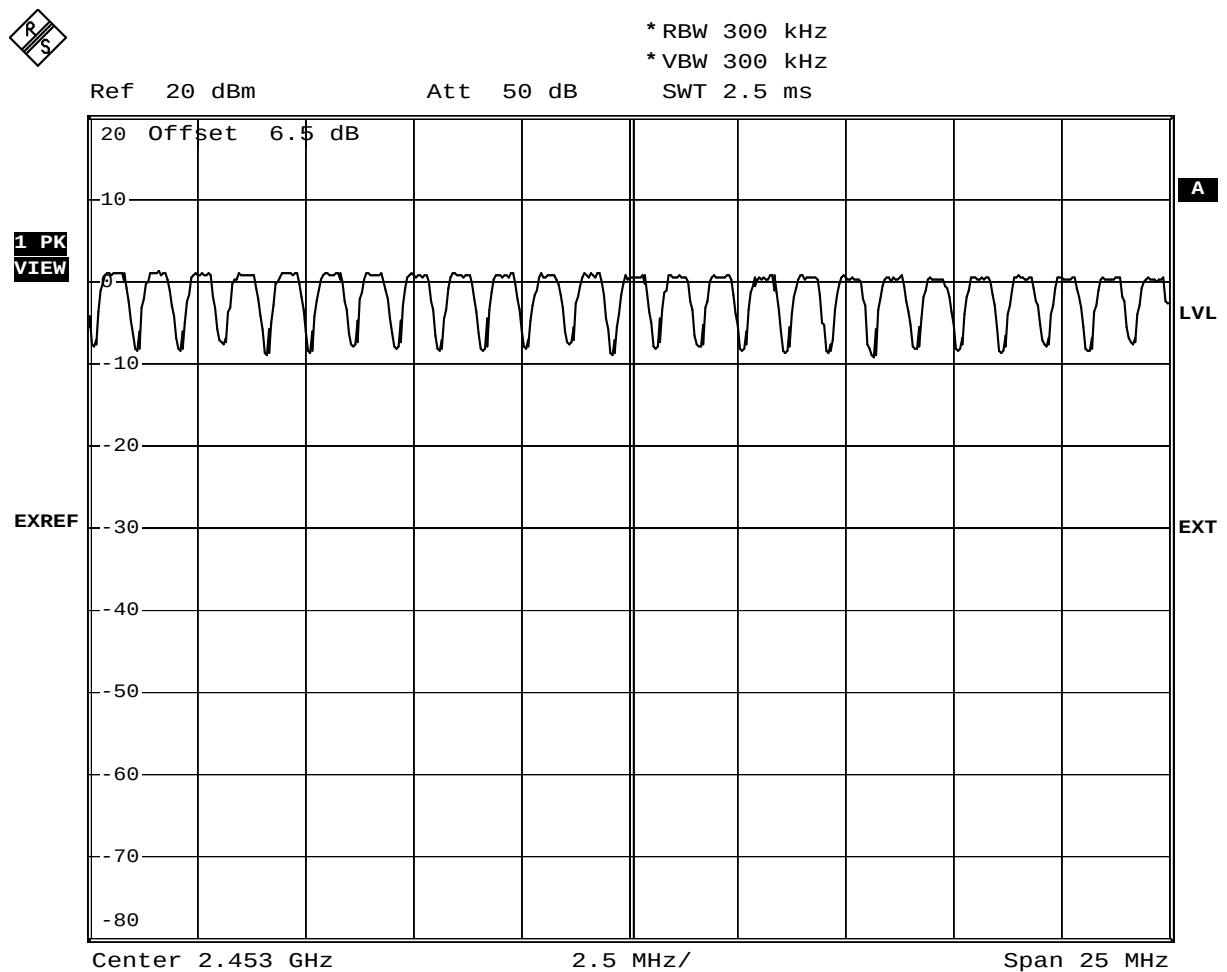
Comment: Number of hopping frequencies
 Date: 4.FEB.2010 15:49:17

Measurement diagram

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

FCC part 15.247
Number of hopping frequencies

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(a)
Comment 1	Number of hopping frequencies
Comment 2	Channel.:39-63
Comment 3	



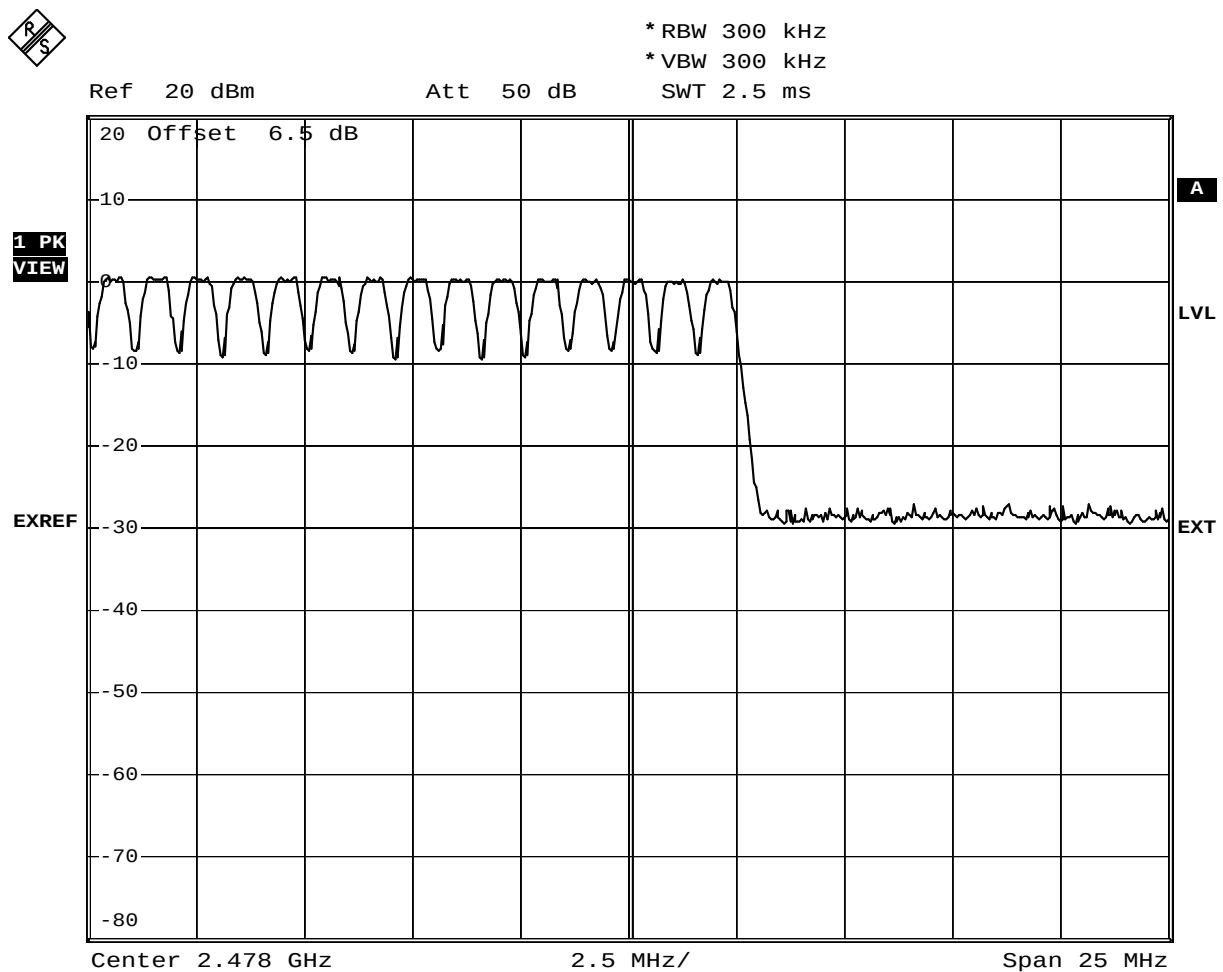
Comment: Number of hopping frequencies
Date: 4.FEB.2010 15:51:25

Measurement diagram

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

FCC part 15.247
Number of hopping frequencies

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(a)
Comment 1	Number of hopping frequencies
Comment 2	Channel.: 64-78
Comment 3	



Comment: Number of hopping frequencies
Date: 4.FEB.2010 15:54:24

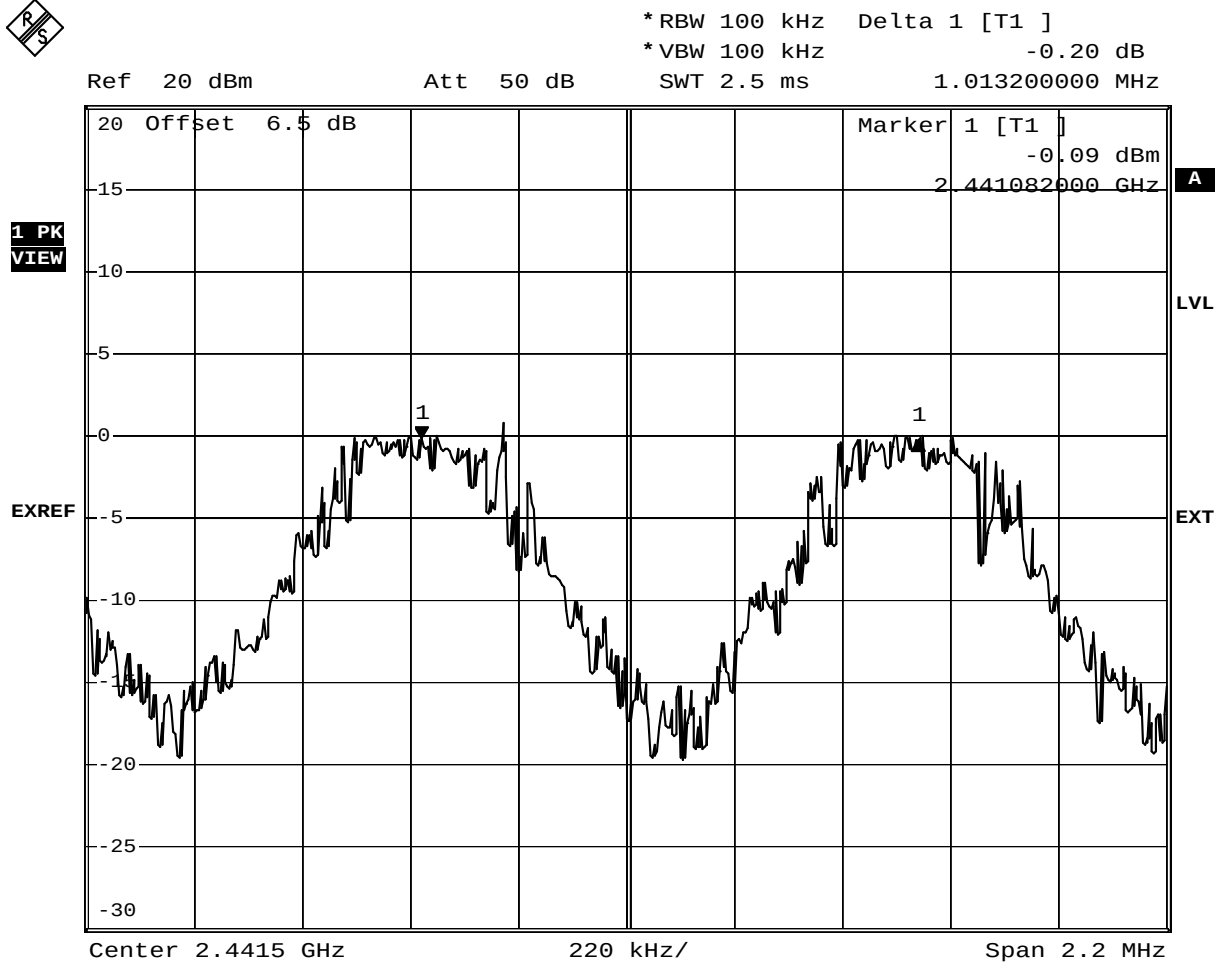
Measurement diagram

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

Annex D Carrier frequency separation

FCC part 15.247
Carrier frequency separation

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(a)(1)
Comment 1	Carrier frequency separation
Comment 2	Channel.: 39/40 / 2441/2442 MHz
Comment 3	Hopping mode



Comment: Limit: > two-thirds of the 20 dB bandwidth ; Result: Pass
 Date: 4.FEB.2010 15:35:41

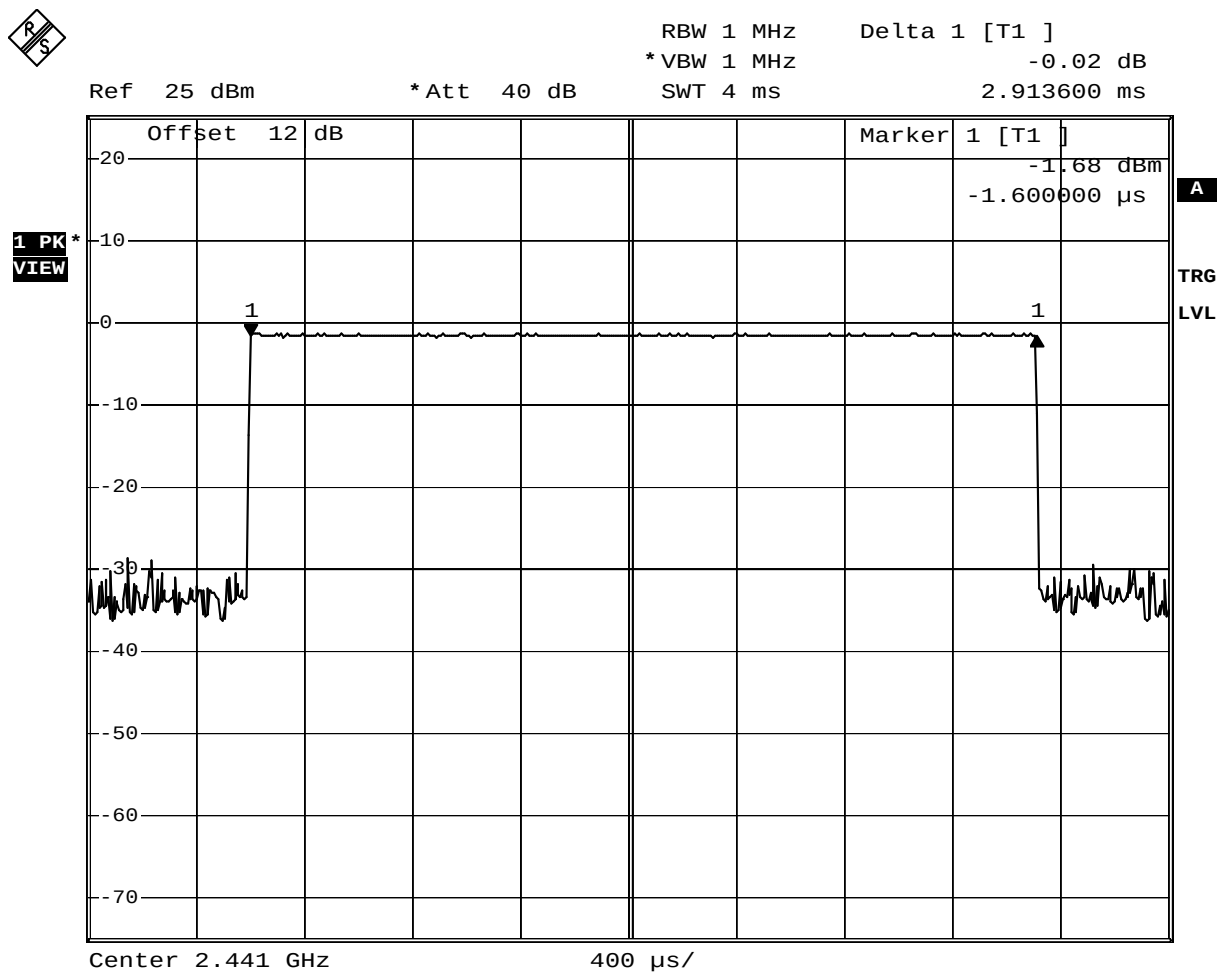
Measurement diagram

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

Annex E Time of occupancy

FCC part 15.247
Time of occupancy (dwell time)

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(a)
Comment 1	Time of occupancy
Comment 2	Channel.: 39 / 2441 MHz (Hopping mode)
Comment 3	64 events * 2.914 ms result: 186.5 ms



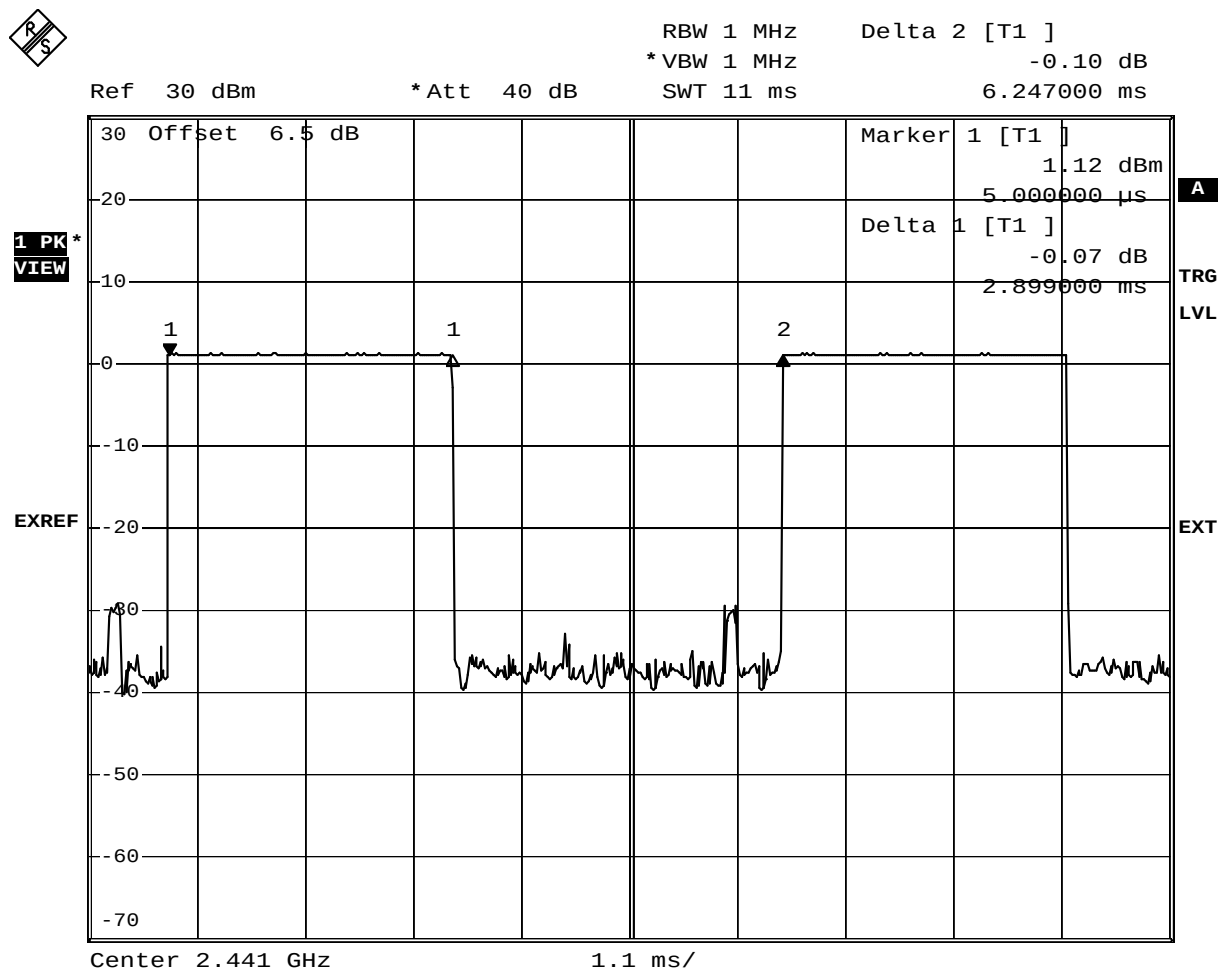
Comment: Burst length=2.9136 ms
 Date: 8.FEB.2010 08:14:13

Measurement diagram

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

FCC part 15.247
Duty cycle

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(b)
Comment 1	Duty cycle
Comment 2	Channel.: 39 / 2441 MHz
Comment 3	



Comment: Duty cycle=0.46
Date: 4.FEB.2010 15:42:09

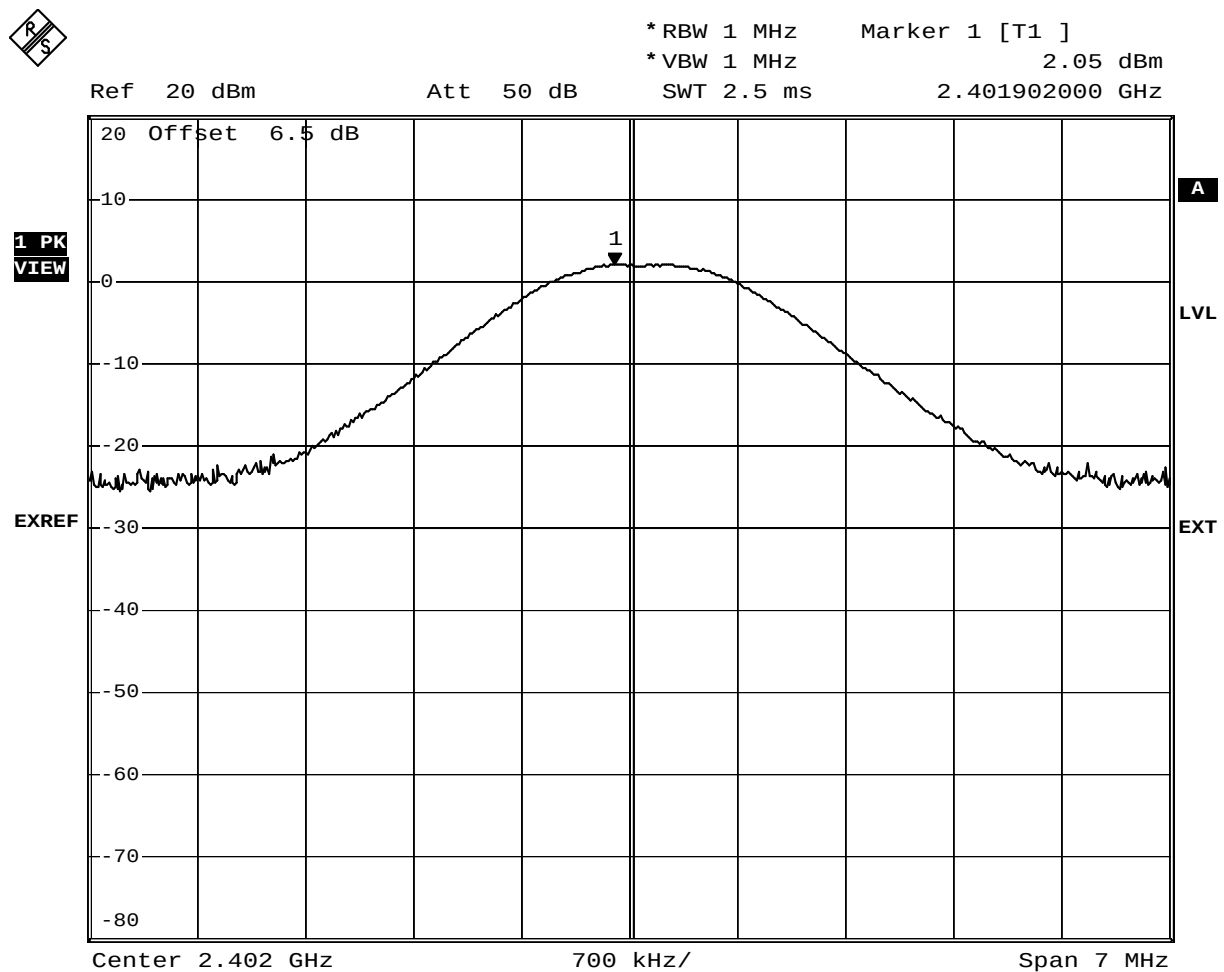
Measurement diagram

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

Annex F Output power

FCC part 15.247
Peak output power conducted

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(b)
Comment 1	Peak output power
Comment 2	Channel.: 0 / 2402 MHz
Comment 3	



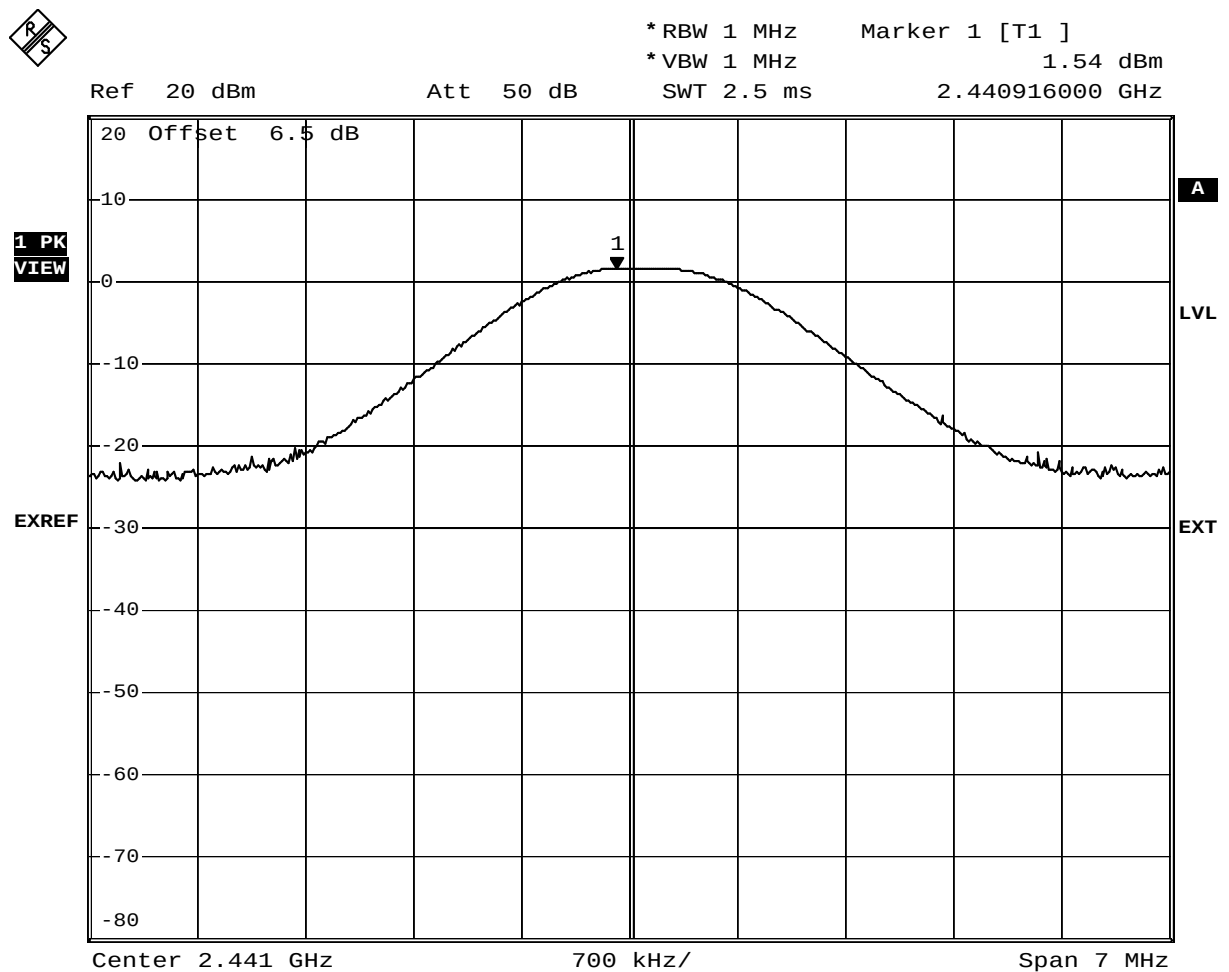
Comment: Output power=2.05 dBm; verdict: PASS
 Date: 4.FEB.2010 14:56:42

Measurement diagram

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

FCC part 15.247
Peak output power conducted

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(b)
Comment 1	Peak output power
Comment 2	Channel.: 39 / 2441 MHz
Comment 3	



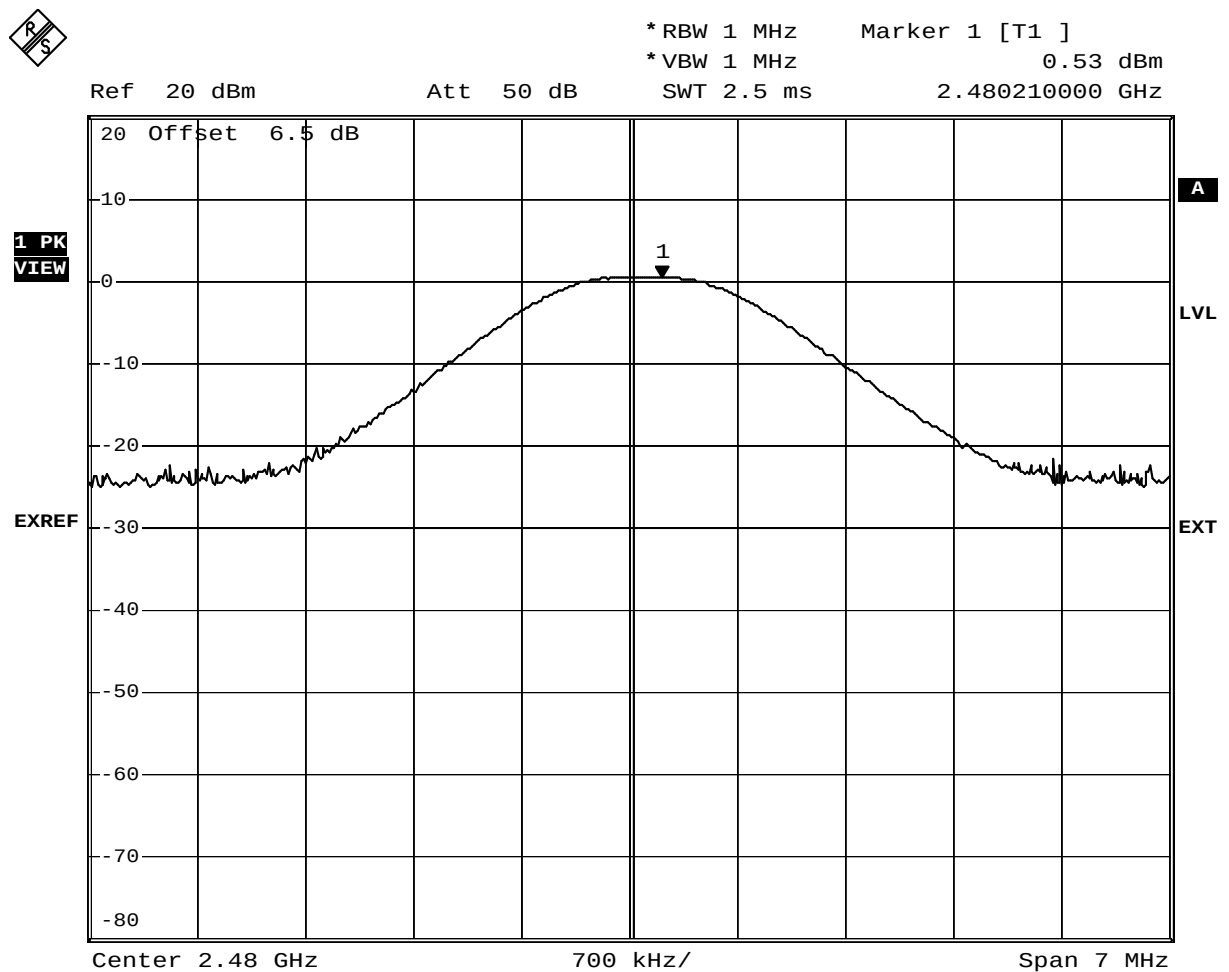
Comment: Output power=1.54 dBm; verdict: PASS
Date: 4.FEB.2010 15:00:10

Measurement diagram

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

FCC part 15.247
Peak output power conducted

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(b)
Comment 1	Peak output power
Comment 2	Channel.: 78 / 2480 MHz
Comment 3	



Comment: Output power=0.53 dBm; verdict: PASS
Date: 4.FEB.2010 15:01:25

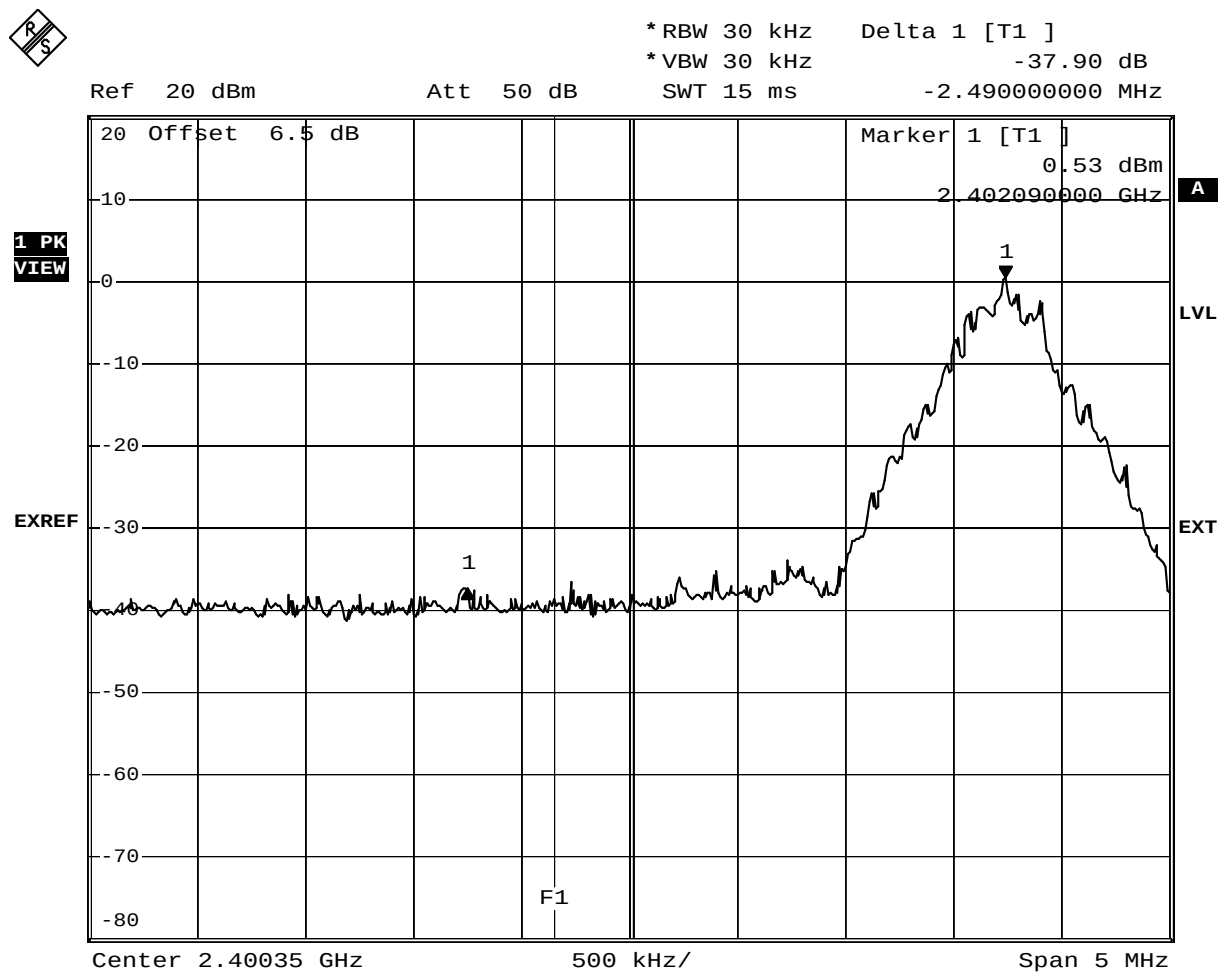
Measurement diagram

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

Annex G Transmitter band-edge emissions

FCC part 15.247
Band-edge compliance of RF conducted emissions

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(c)
Comment 1	Band-edge compliance
Comment 2	Channel.: 0 / 2402 MHz
Comment 3	Single frequency mode



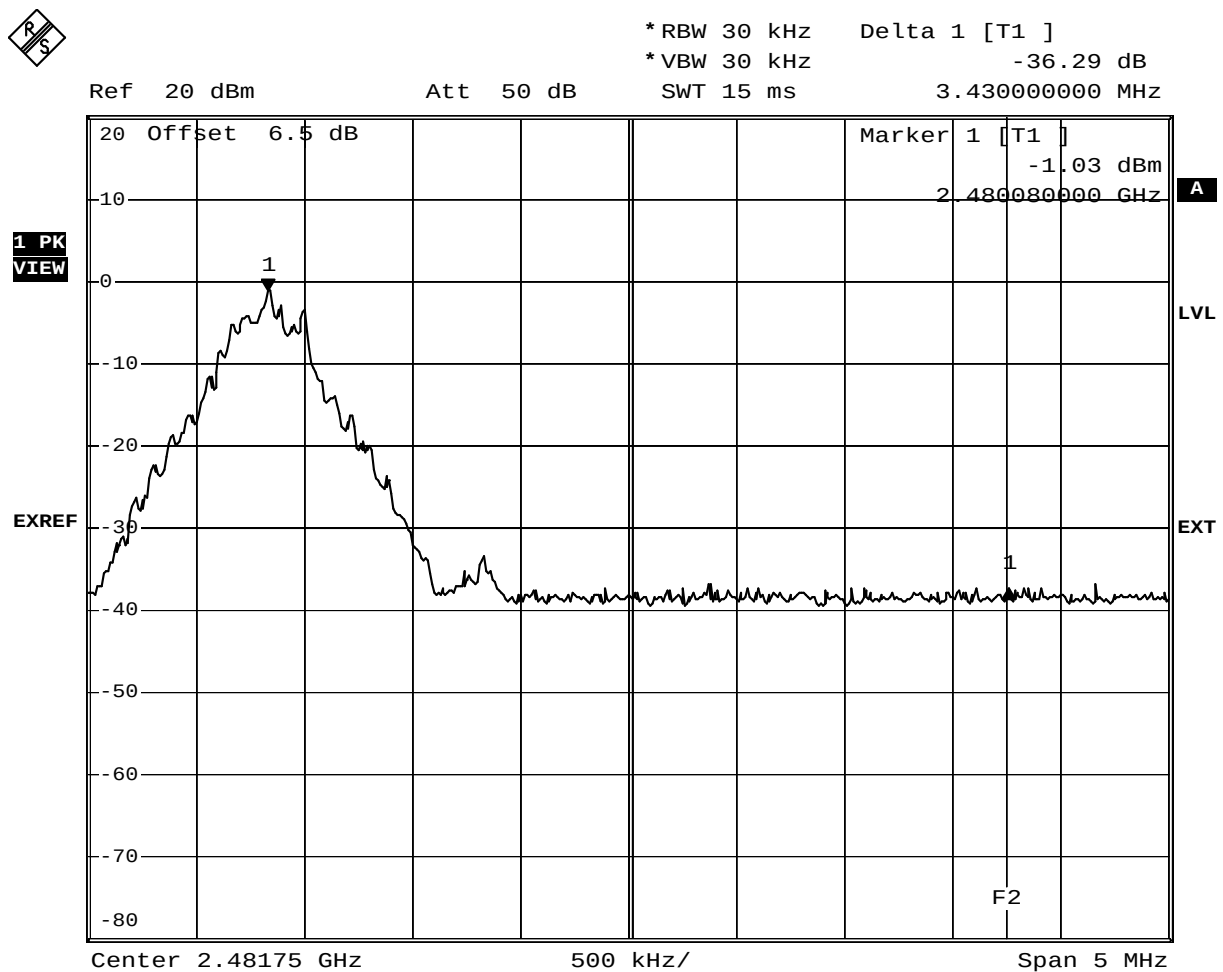
Comment: Limit: Marker Delta value >20 dB; Result: PASS
 Date: 4.FEB.2010 15:17:34

Measurement diagram

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

FCC part 15.247
Band-edge compliance of RF conducted emissions

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(c)
Comment 1	Band-edge compliance
Comment 2	Channel.: 78 / 2480 MHz
Comment 3	Single frequency mode



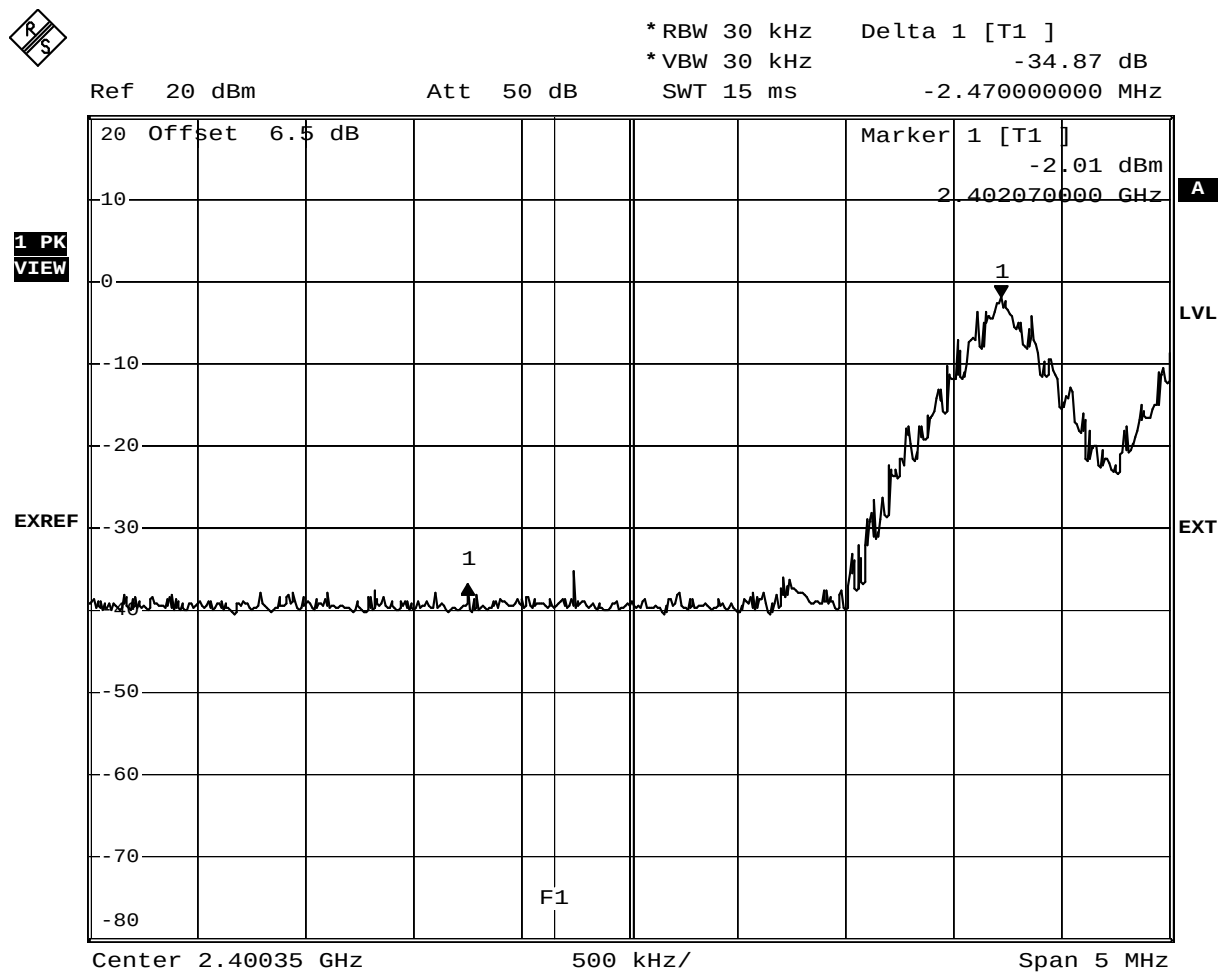
Comment: Limit: Marker Delta value >20 dB; Result: PASS
 Date: 4.FEB.2010 15:26:32

Measurement diagram

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

FCC part 15.247
Band-edge compliance of RF conducted emissions

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(c)
Comment 1	Band-edge compliance
Comment 2	Channel.: 0 / 2402 MHz
Comment 3	Hopping mode



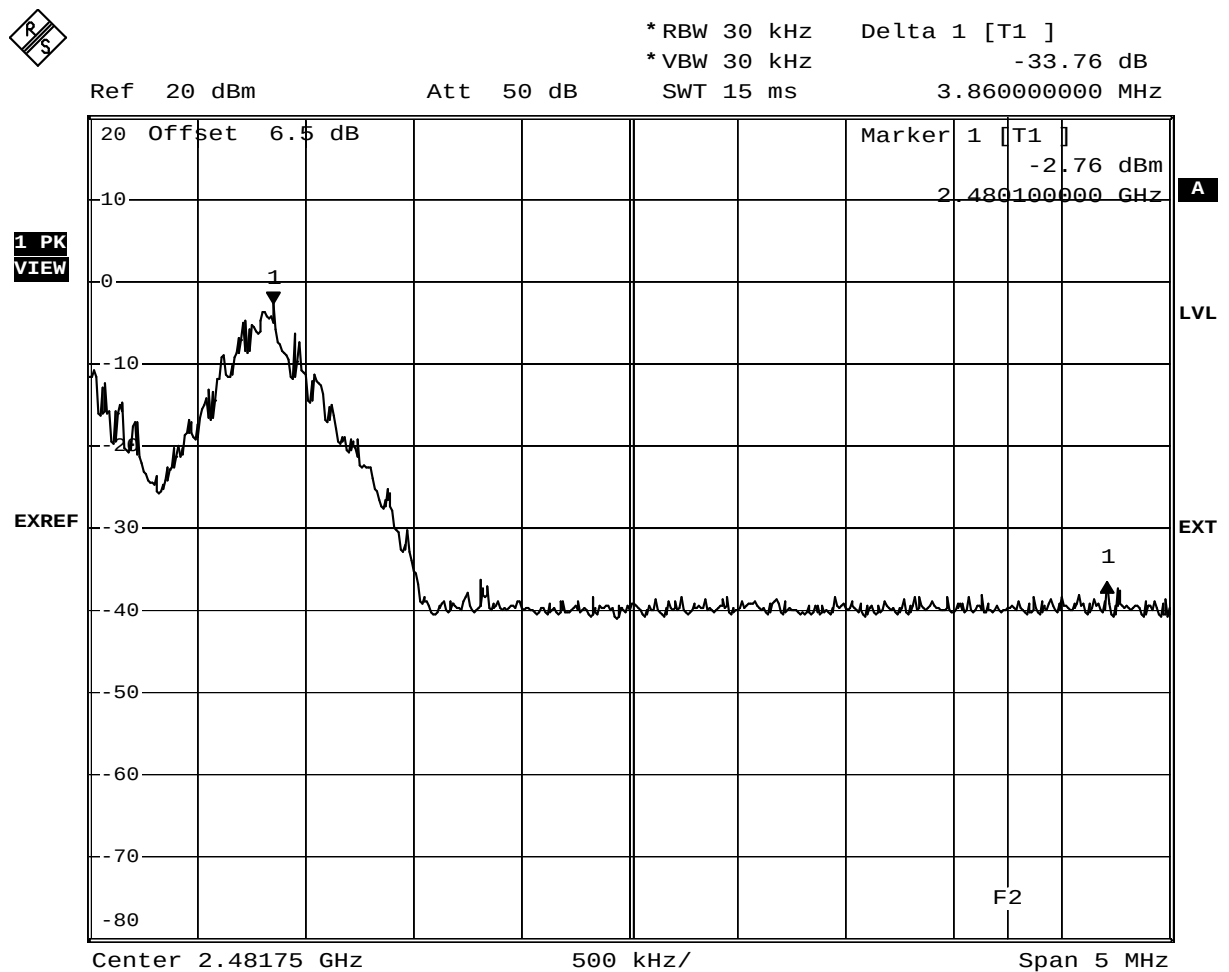
Comment: Limit: Marker Delta value >20 dB; Result: PASS
 Date: 4.FEB.2010 15:29:38

Measurement diagram

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

FCC part 15.247
Band-edge compliance of RF conducted emissions

EUT	Remote Control with Bluetooth
Model	Remote Link: Logbook / Working Time
Approval Holder	TomTom International
Temperature / Voltage	23°C / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(c)
Comment 1	Band-edge compliance
Comment 2	Channel.: 78 / 2480 MHz
Comment 3	Hopping mode



Date: 4.FEB.2010 15:31:24

Measurement diagram

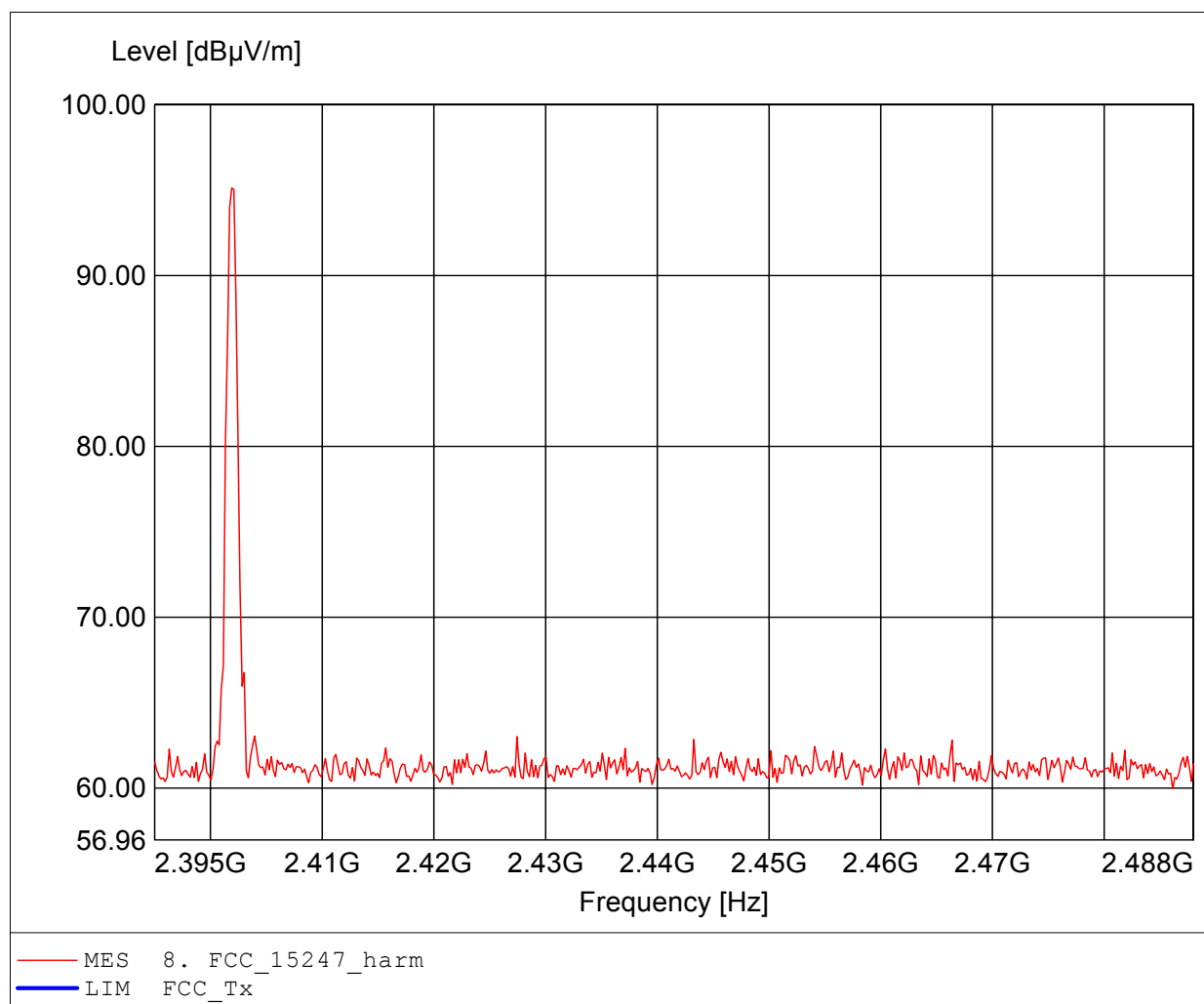
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Annex H Transmitter spurious emissions

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

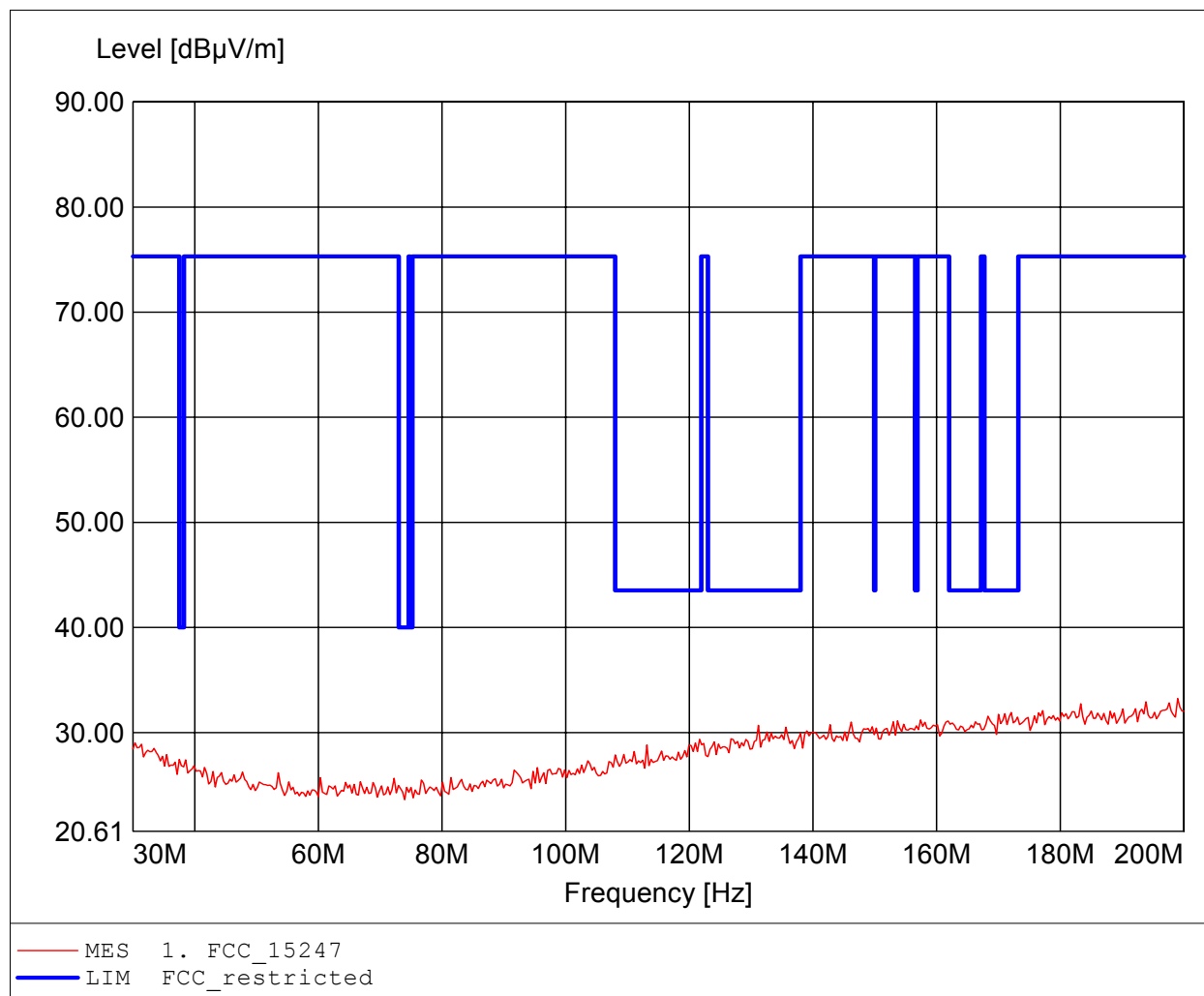
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 0 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Emax: 95.13dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

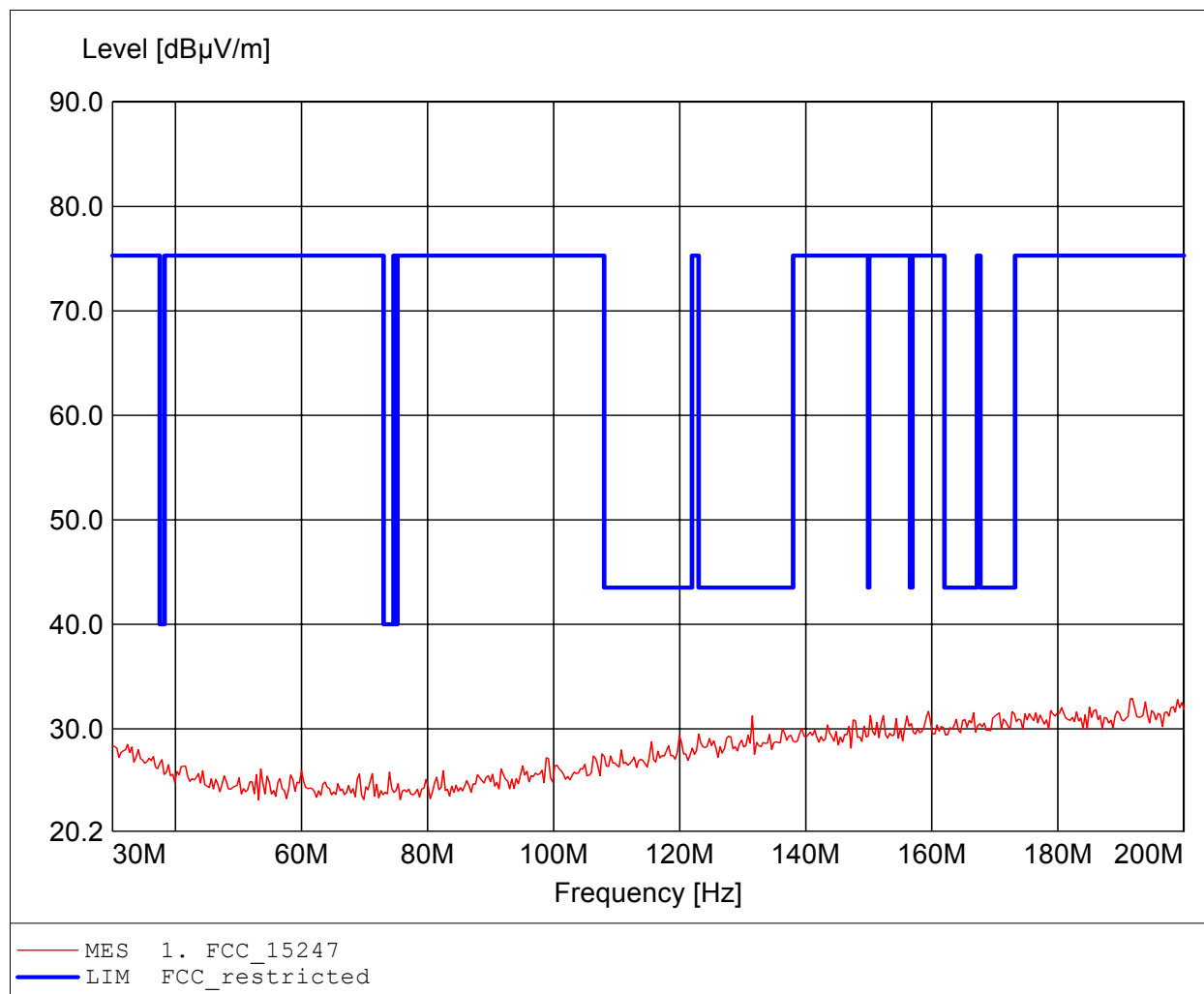
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 0 / DH5 (worst case)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 198.978MHz, Emax: 33.23dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

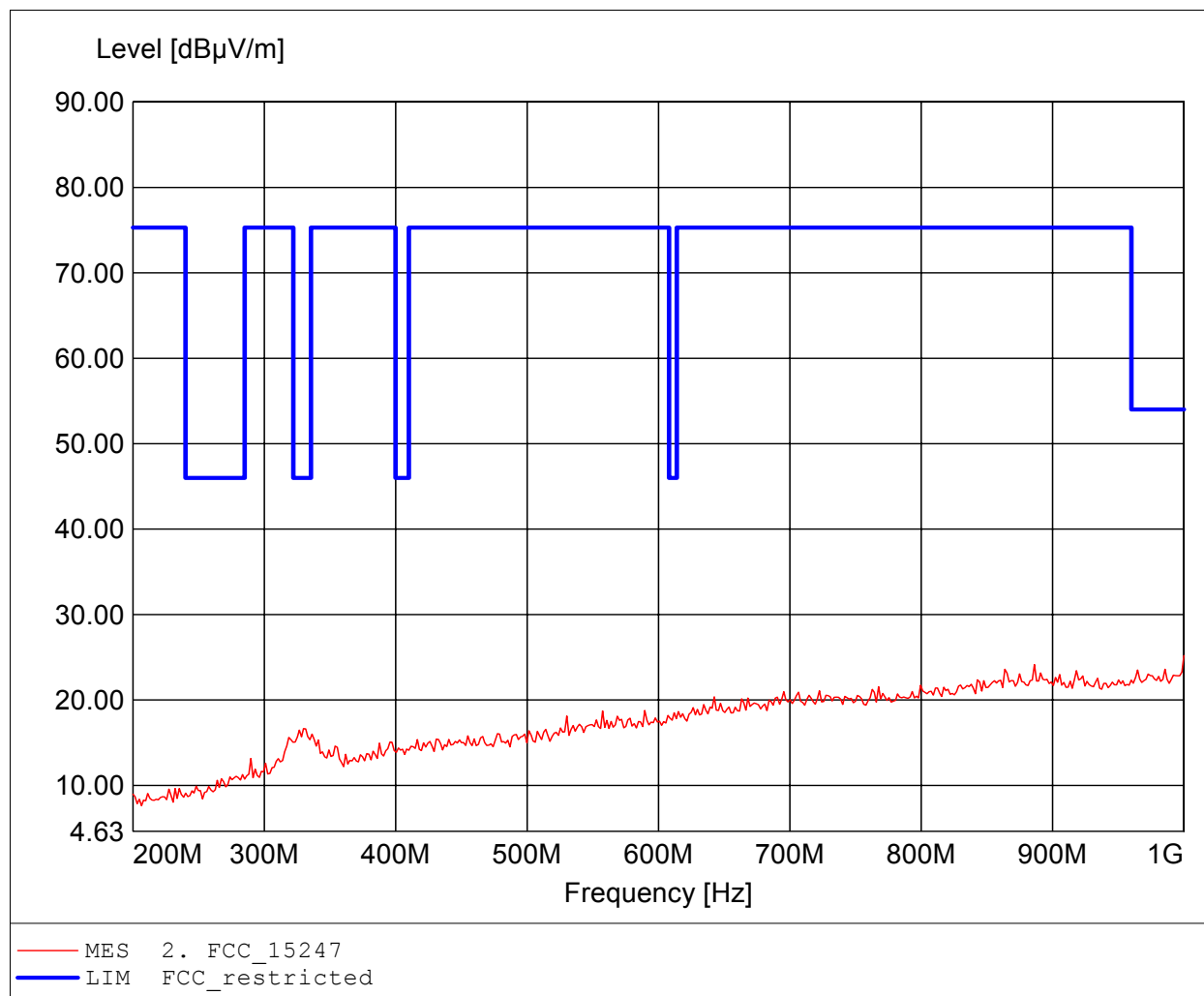
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 0 / DH5 (worst case)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 191.824MHz, Emax: 32.90dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

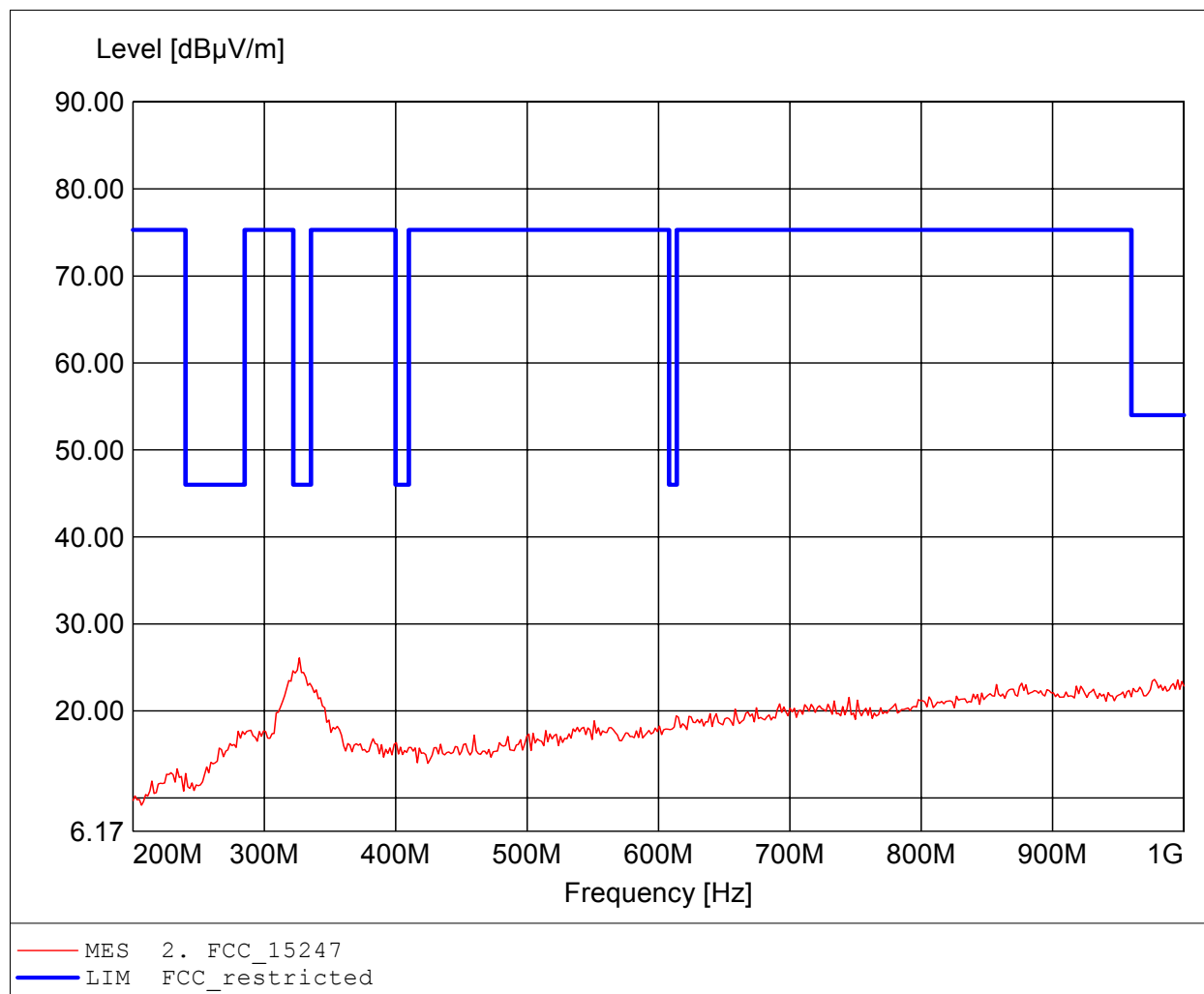
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 0 / DH5 (worst case)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 1.000GHz, Emax: 25.21dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

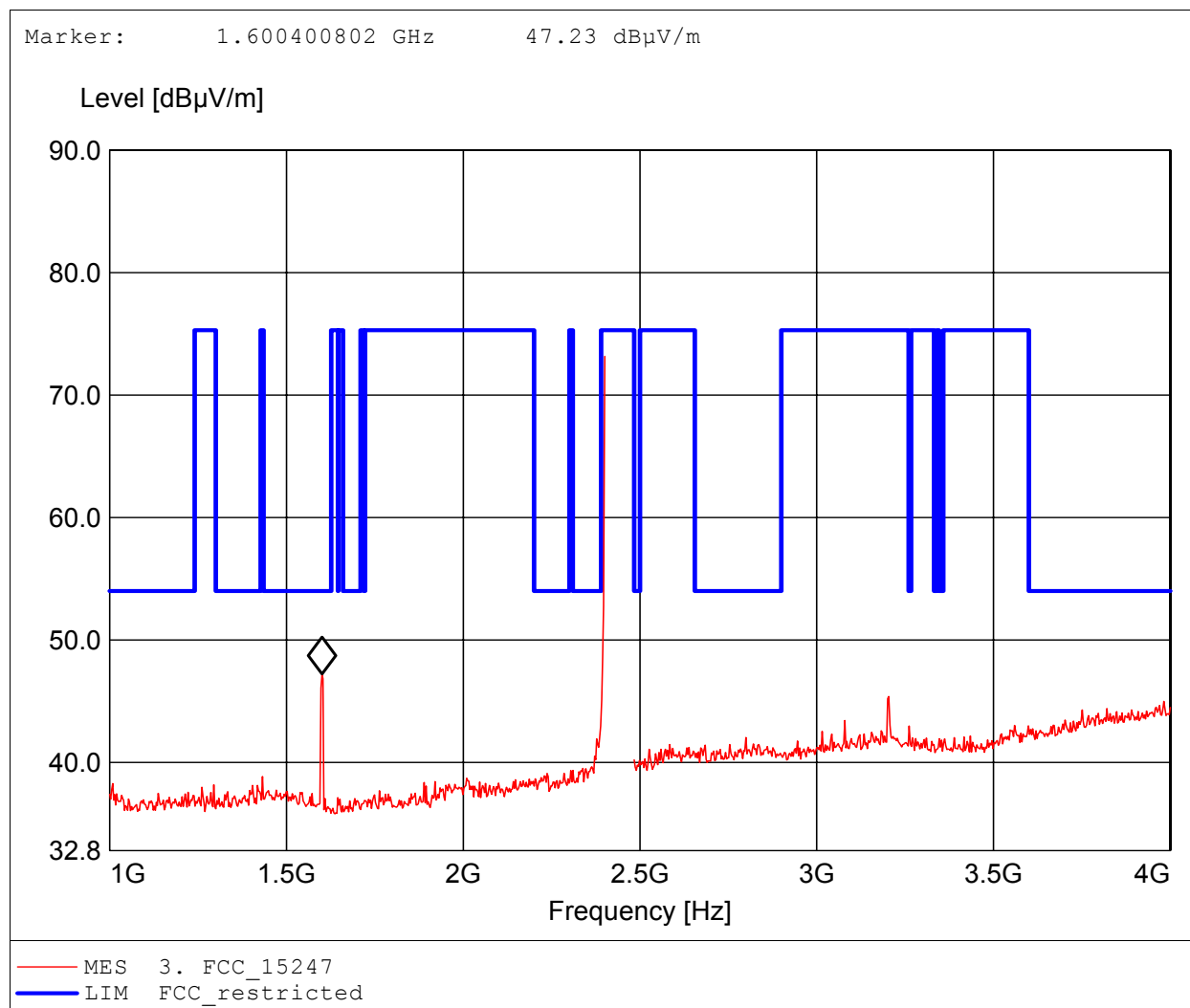
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 0 / DH5 (worst case)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 326.653MHz, Emax: 26.09dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

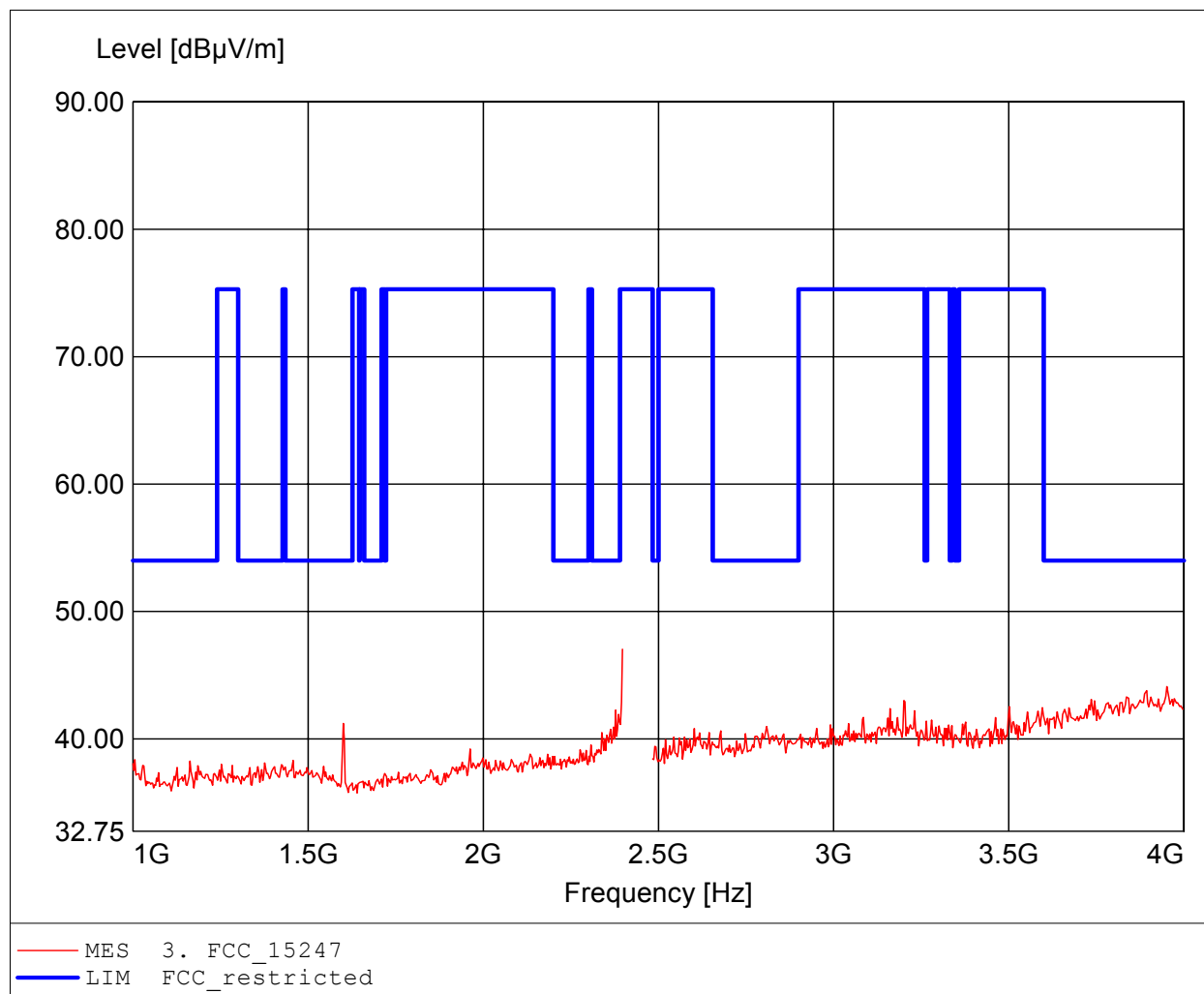
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 0 / DH5 worst case
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 73.16dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

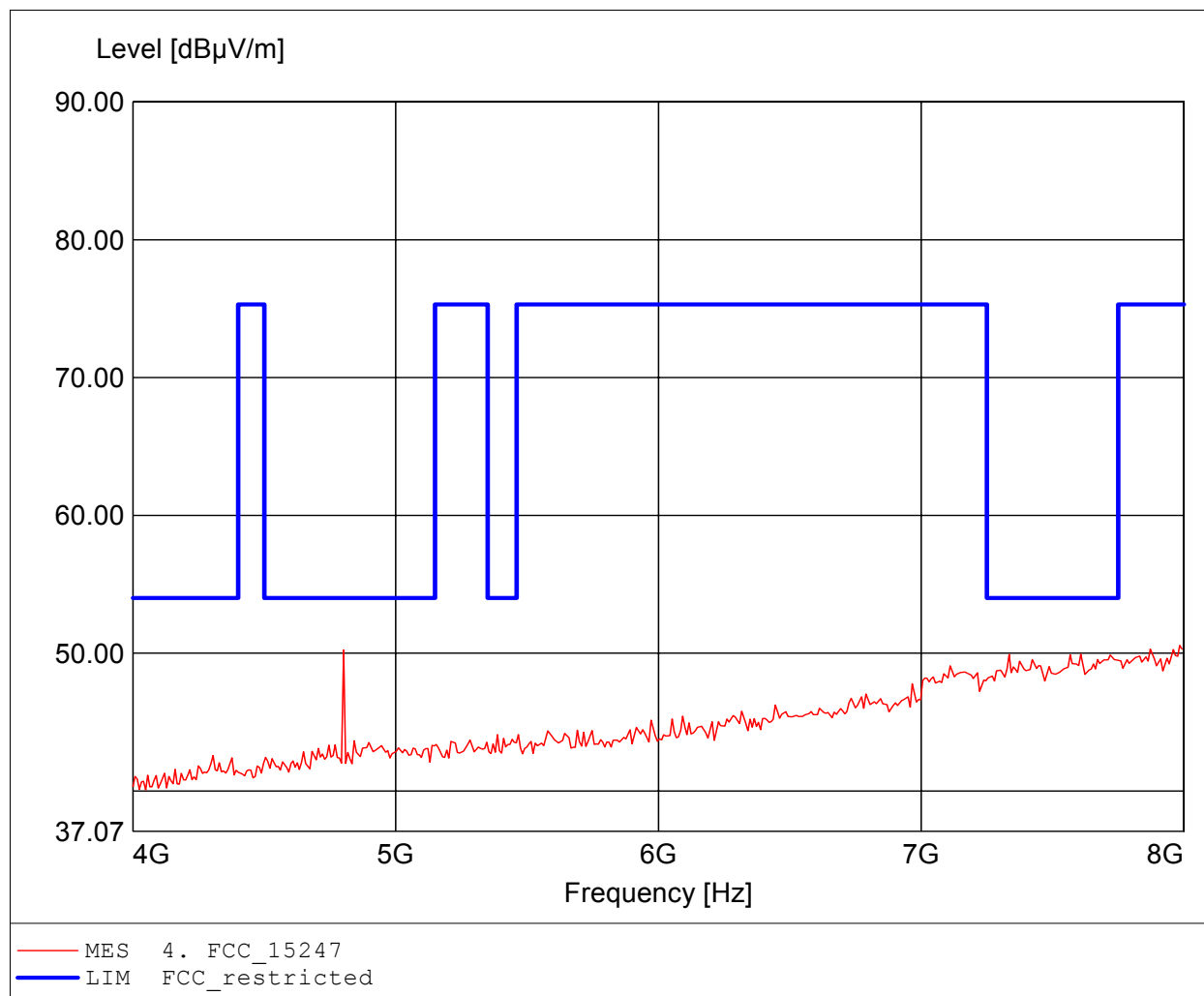
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 0 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.397GHz, Emax: 47.04dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

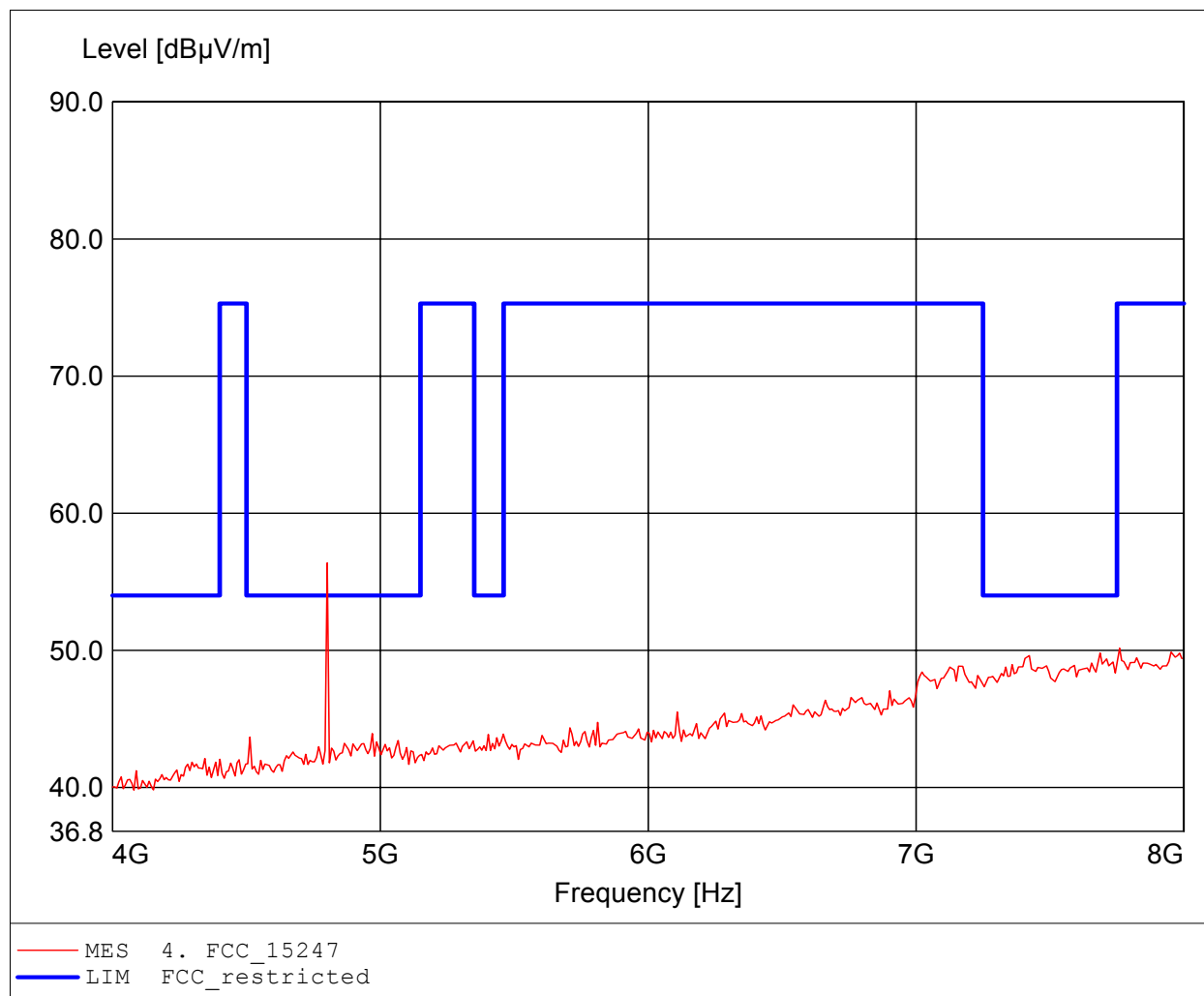
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 0 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.984GHz, Emax: 50.57dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

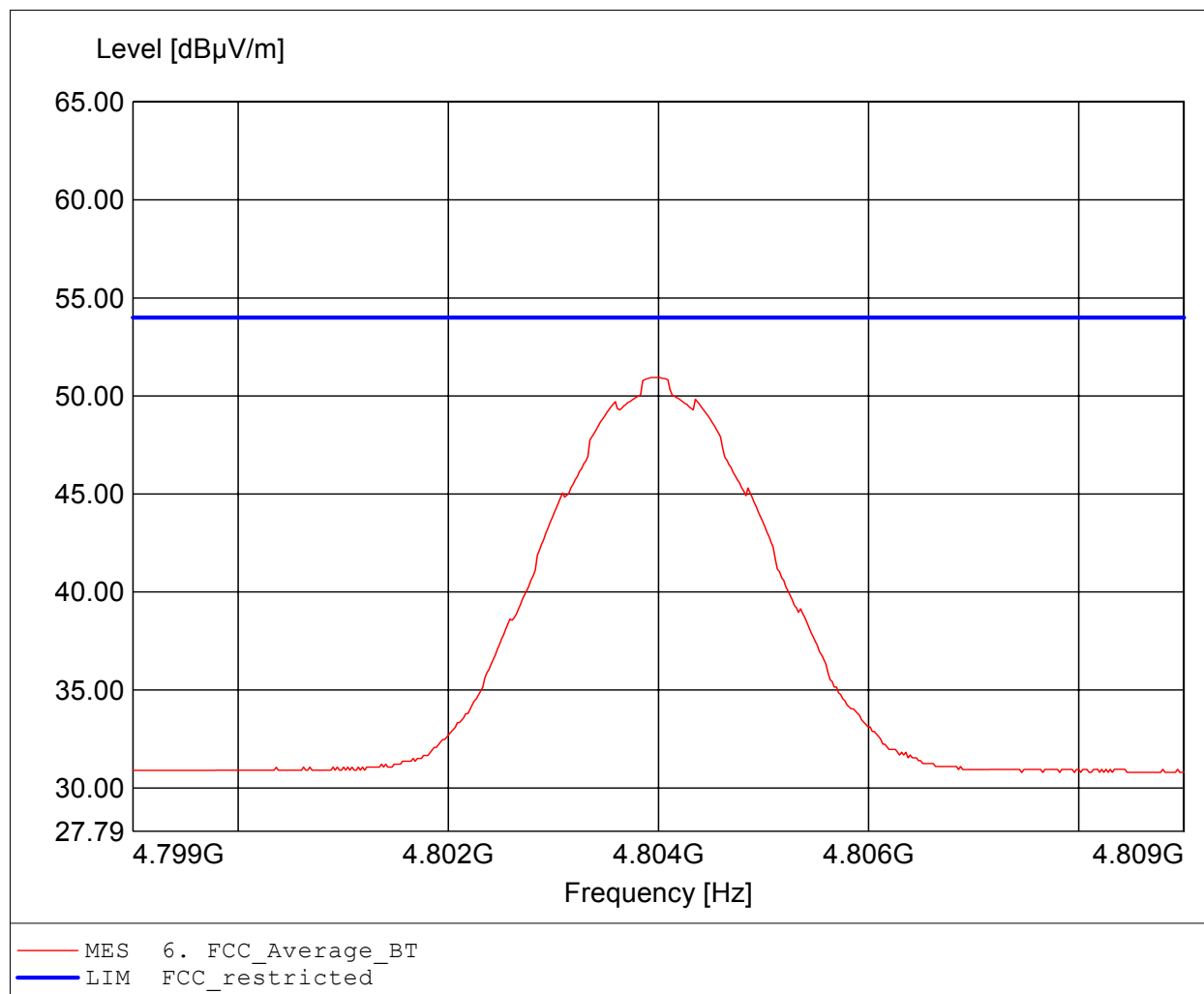
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 0 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.802GHz, Emax: 56.37dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

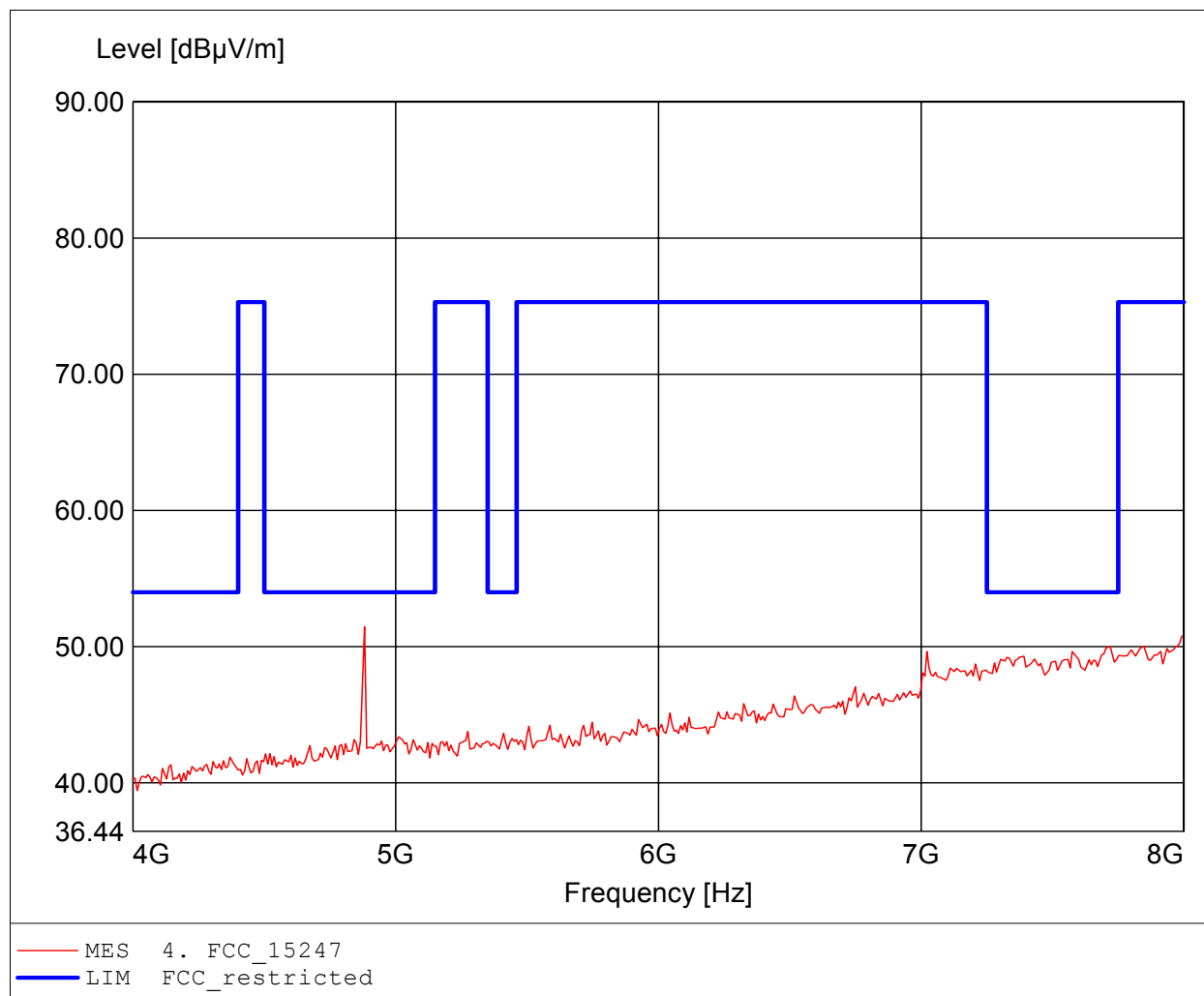
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 0 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.804GHz, Emax: 50.95dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

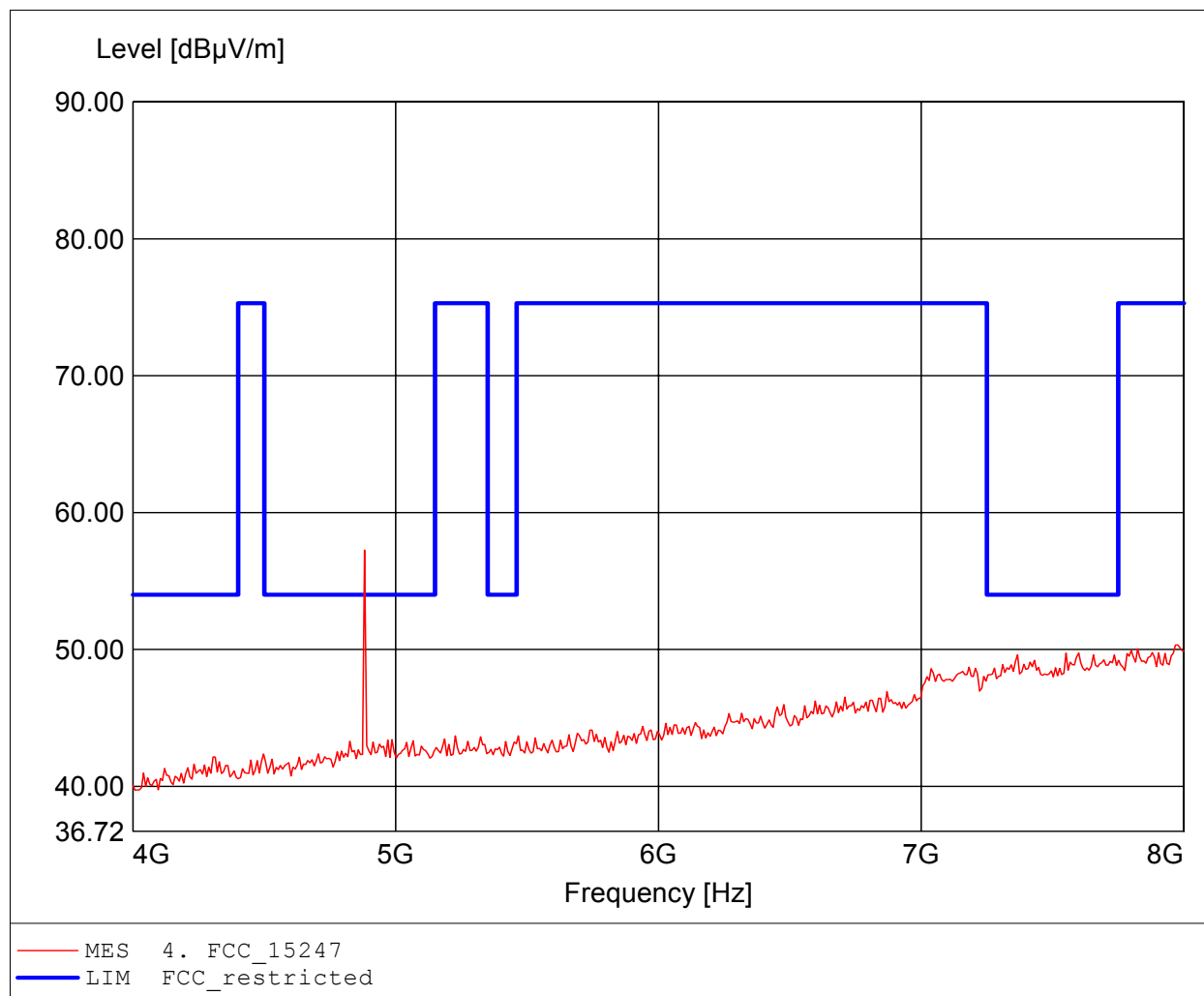
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 39 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.882GHz, Emax: 51.46dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

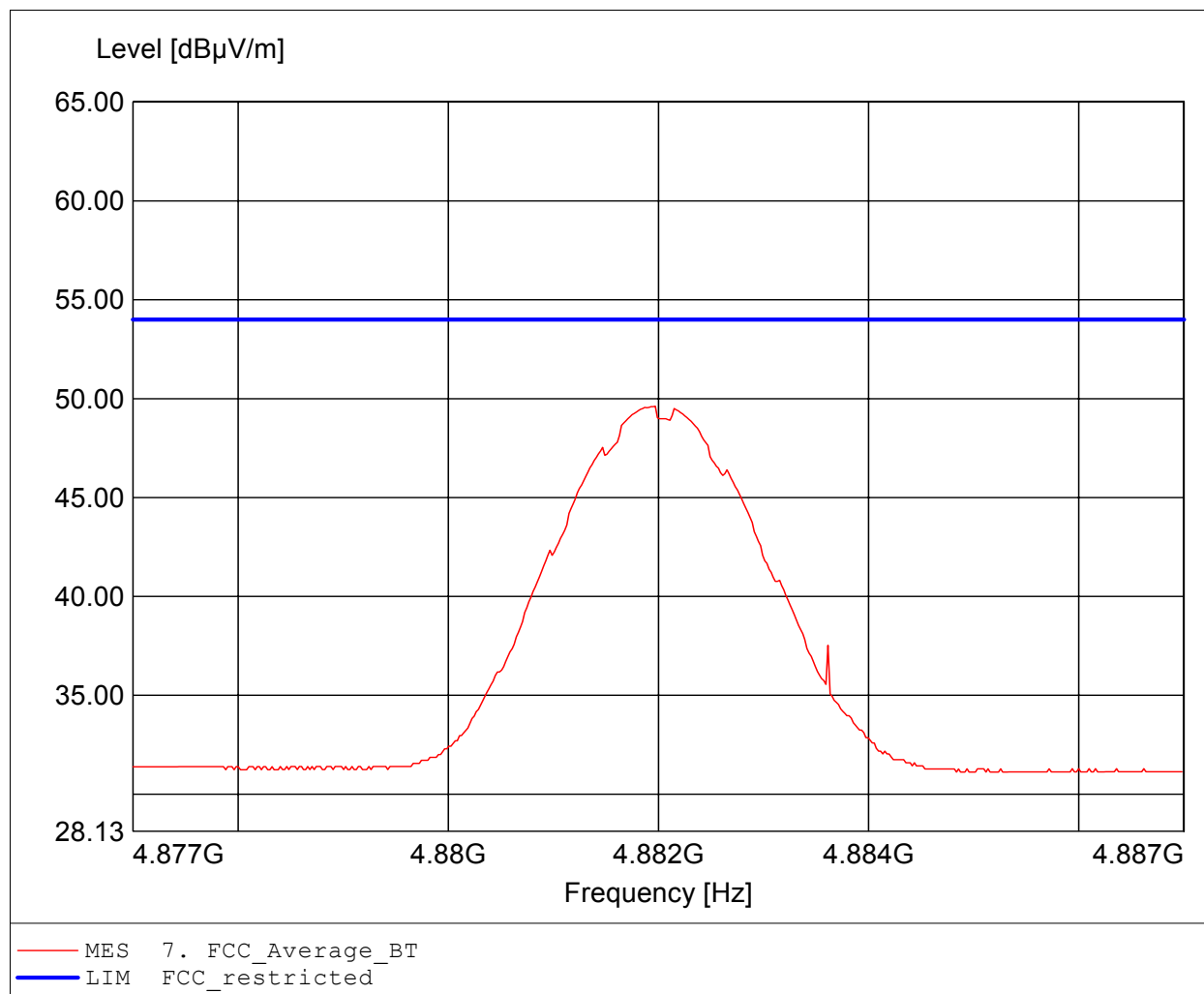
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 39 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.882GHz, Emax: 57.26dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

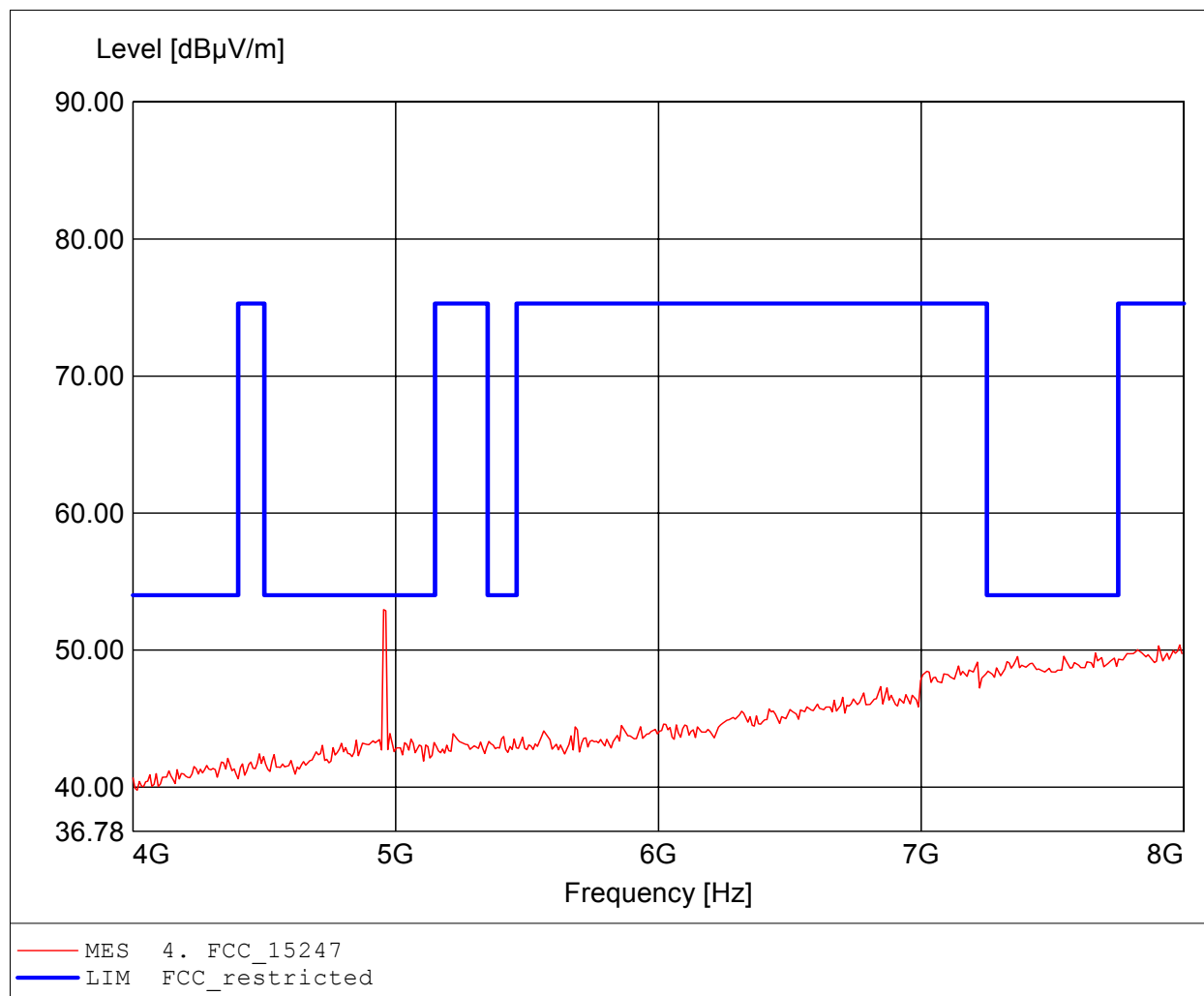
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 39 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 4.882GHz, Emax: 49.62dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

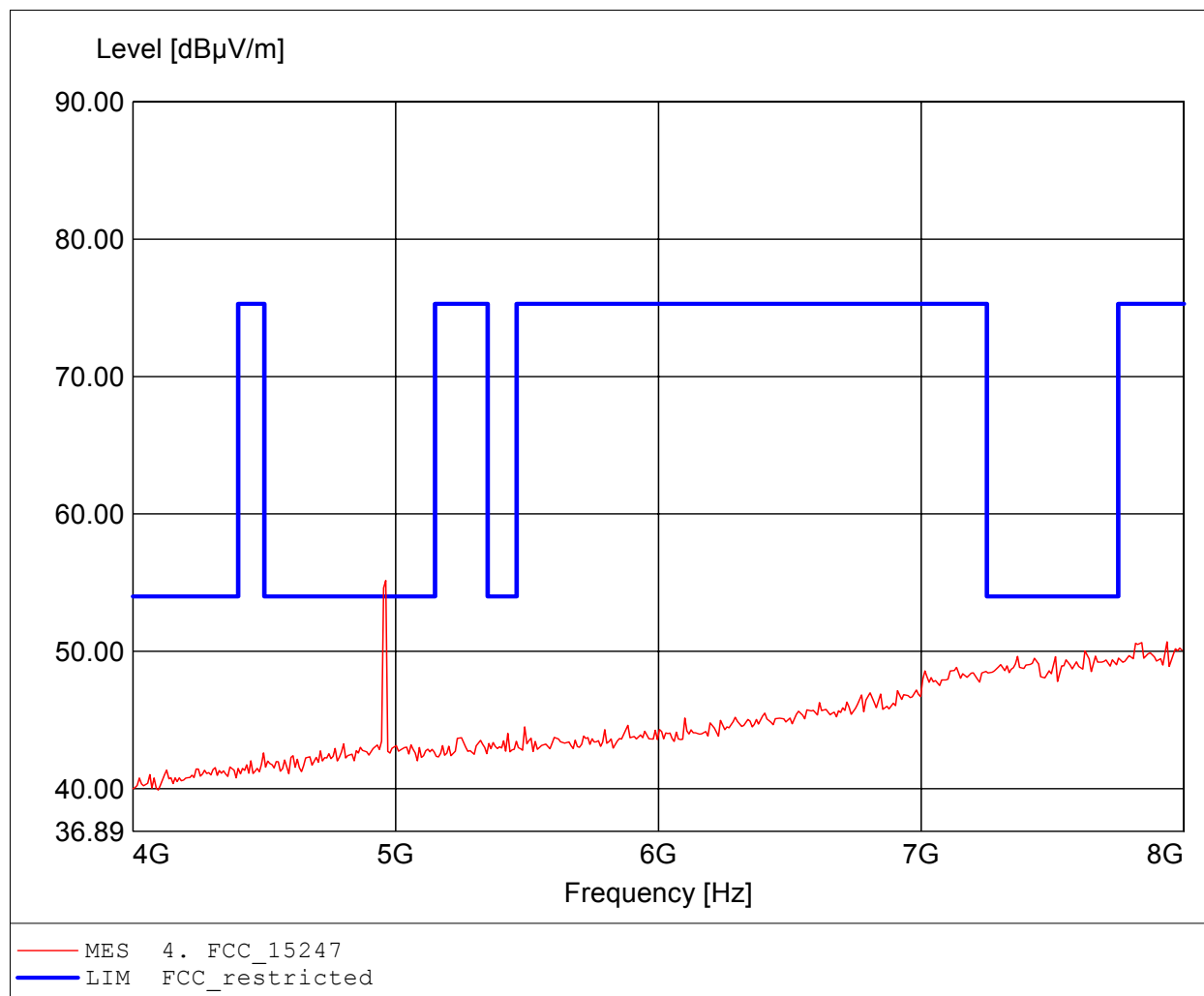
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 78 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.954GHz, Emax: 52.96dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

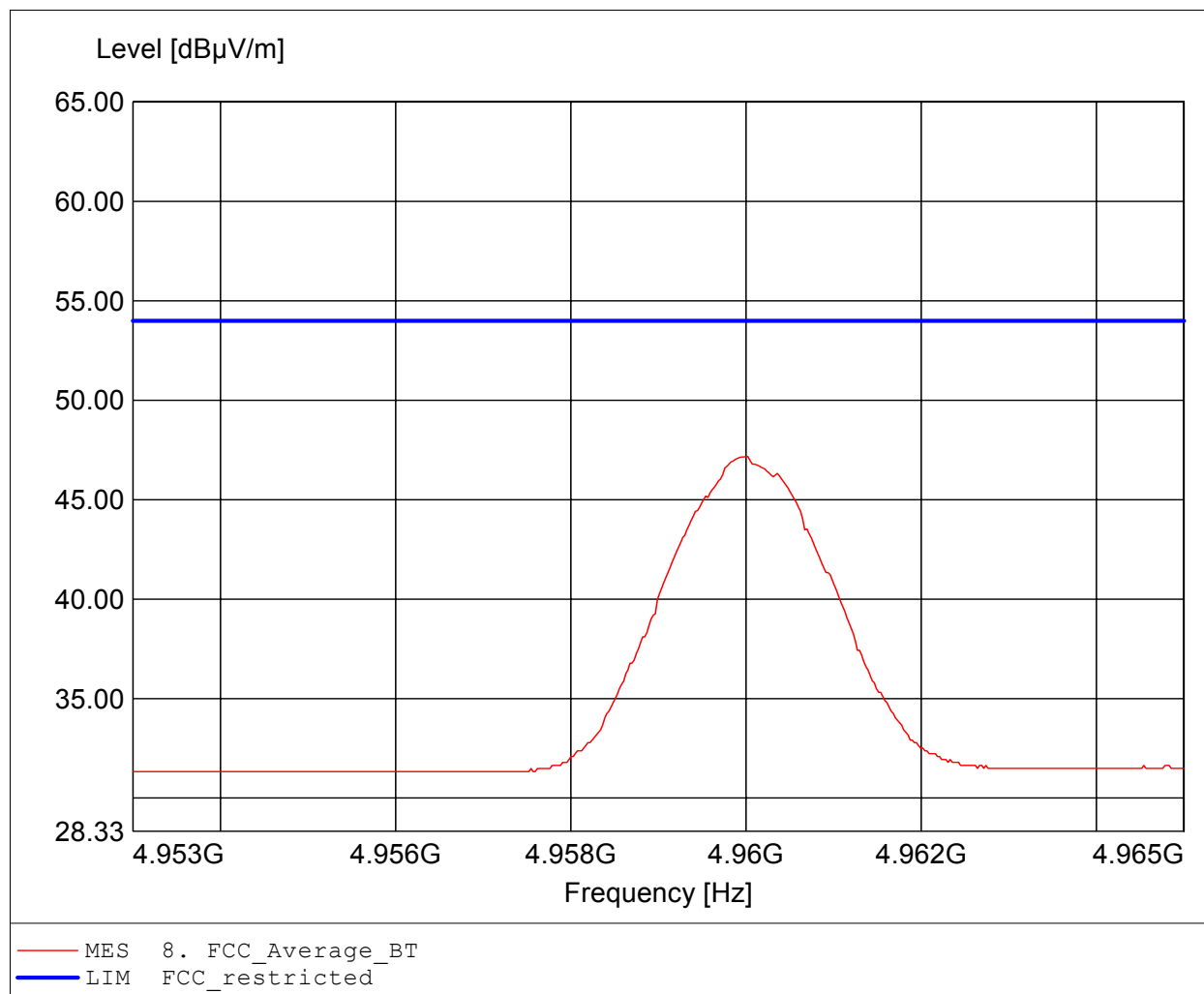
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 78 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.962GHz, Emax: 55.15dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

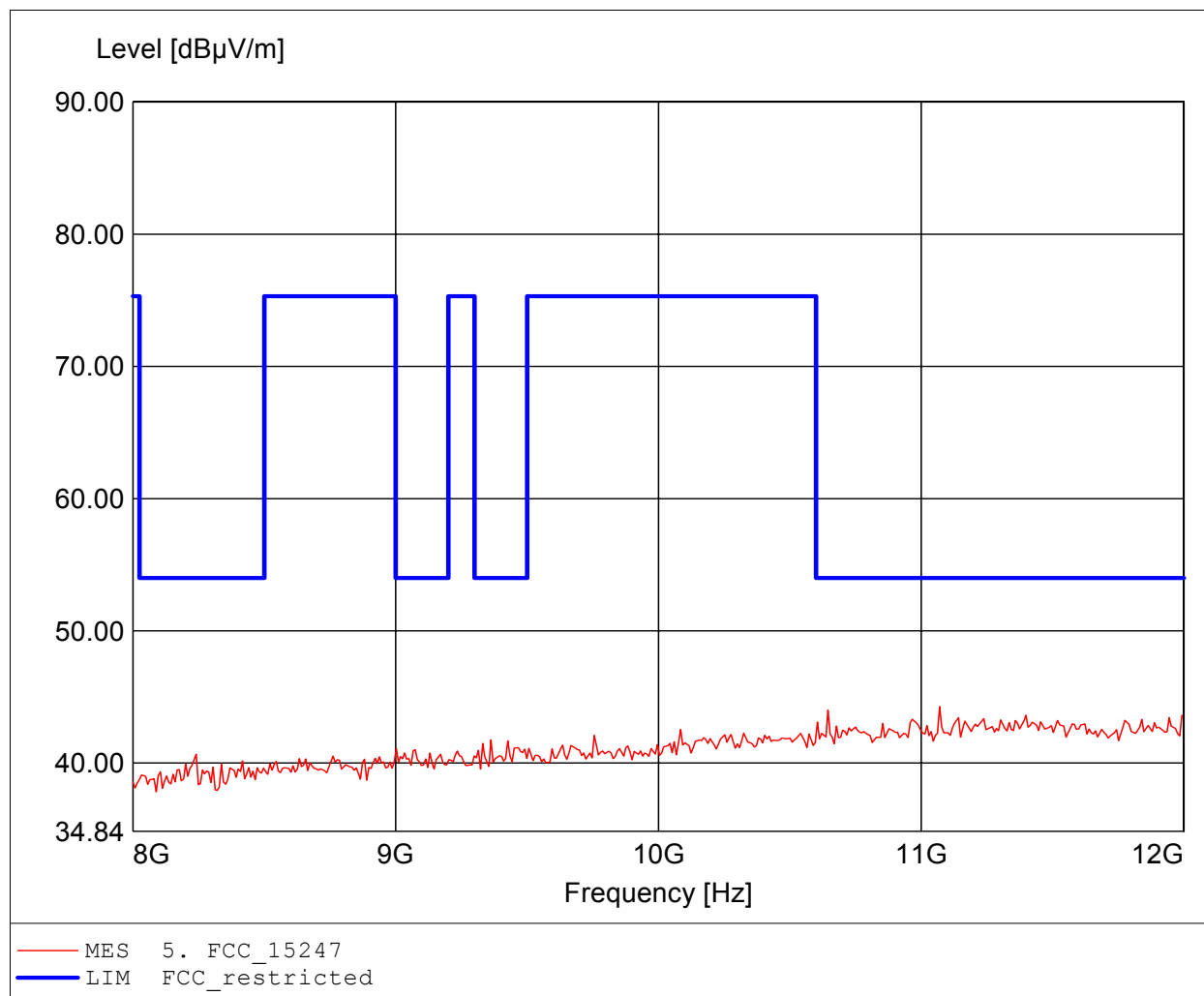
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 78 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 4.960GHz, Emax: 47.18dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

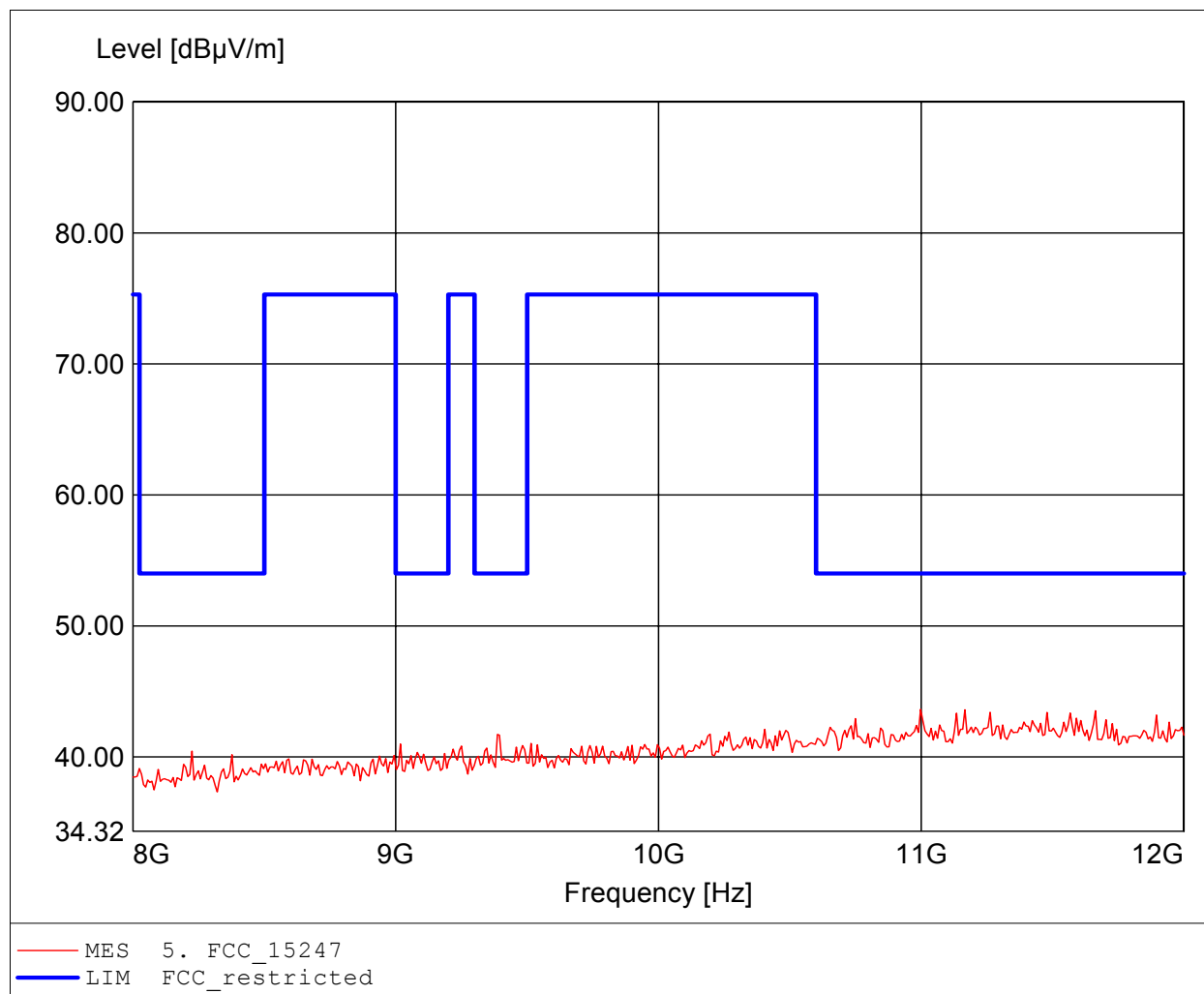
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 0 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.070GHz, Emax: 44.27dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

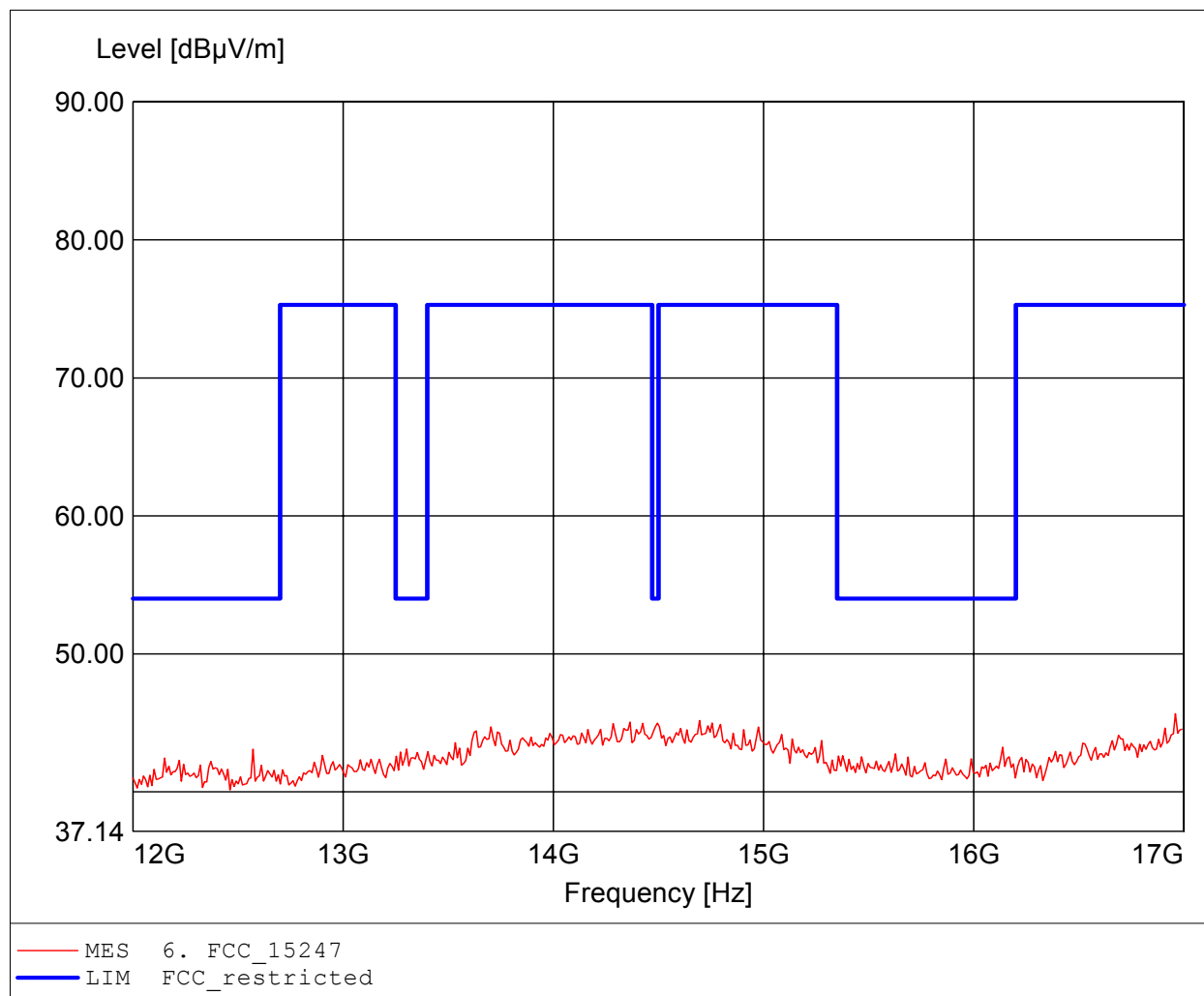
Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 0 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 10.998GHz, Emax: 43.63dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 0 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 16.960GHz, Emax: 45.66dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

Approval Holder: TomTom International BV / Ord.: G0M21001-2793
EUT: Remote Control with Bluetooth
Model: Remote Link Logbook, Working Time / ch. 0 / DH5
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom: 24°C / Unom.: 3 V DC (2x1.5V battery)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.756GHz, Emax: 45.28dBµV/m, RBW: 1MHz

