



EUROFINS PRODUCT SERVICE GMBH



TEST-REPORT

**FCC PART 15 SUBPART C
IC RSS 210 ISSUE 8**

**Bluetooth Cap for Field Controller CS15
CTR16**

**FCC ID: RFD-CTR16
IC: 3177A-CTR16**

TEST REPORT NUMBER: G0M-1106-1222-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 generalizations 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:

28.07.2011

W. Treffke



Date

Eurofins-Lab.

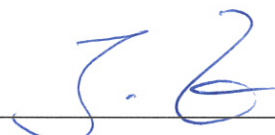
Name

Signature

Technical responsibility for area of testing:

28.07.2011

J. Zimmermann



Date

Eurofins

Name

Signature

1.2 Testing laboratory

EUROFINS PRODUCT SERVICE GMBH
Storkower Strasse 38c
D-15526 Reichenwalde b. Berlin
Germany
Telephone :+49 33631 888 00
Telefax :+49 33631 888 660

DAKKS ACCREDITED TESTING LABORATORY
DAKKS-REGISTRATION NUMBER: D-PL-12092-01-01

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 : Leica Geosystems AG
Street : Heinrich Wild Strasse 1
Town : CH-9435 Heerbrugg
Country : Switzerland
Telephone : +41 71 727 3098
Fax : +41 71 727 5098

Contact : Herr Hannes Juen
Telephone : +41 71 727 3098

Manufacturer:
(if applicable)

Name : Leica Geosystems AG
Street : Heinrich Wild Strasse 1
Town : CH-9435 Heerbrugg
Country : Switzerland

1.4 Application details

Date of receipt of application : 28.06.2011
Date of receipt of test item : 28.06.2011
Date of test : 05.07.2011

1.5 Acronyms and abbreviations

EUT : Equipment under Test
TX : Transmission
RX : Reception
RBW : Measurement Resolution Bandwidth
Pol : Measurement Polarization
e.i.r.p. : Equivalent isotropic radiated power
FHSS : Frequency hopping spread spectrum
DSSS : Direct Sequence Spread Spectrum
OFDM : Orthogonal frequency division multiplexing
CCK : Complementary code keying
GFSK : Gaussian frequency shift keying
DQPSK : Differential quadrature phase shift keying
PSK : Phase shift keying
 T_{nom} : Nominal Temperature
 T_{min} : Minimum Temperature
 T_{max} : Maximum Temperature
 V_{nom} : Nominal Supply Voltage
 V_{min} : Minimum Supply Voltage
 V_{max} : Maximum Supply Voltage
VDC : DC voltage
N/A : Not applicable
IC : Industry Canada

1.6 Test standards

Technical standard : ☒ **FCC PART 15 SUBPART C**
☒ **IC RSS 210 ISSUE 8**

1.7 Test item

Description of test item : Bluetooth Cap for Field Controller CS15
Type identification : CTR16
Serial number : 2501546
Hardware version : V2
Software version : 4.7 (Connect blue model)
Equipment type : End product

Technical data

Radio type : Transceiver
Radio technology : Bluetooth
Frequency range : 2400 - 2483.5MHz
Tested frequencies : F₁ 2402MHz
Tested frequencies : F₂ 2441MHz
Tested frequencies : F₃ 2480MHz
Antenna type(s) : internal
Antenna model(s) : λ half dipole antenna
Number of antennas : 1
Antenna gain(s) : 2.5dBi (Declared by approval holder)
Power supply : 5.0VDC
Operating mode(s) : semi duplex
Spreading technique : FHSS
Modulation(s) : GFSK, PI/4-DQPSK, 8-PSK
Device classification : Mobile Device (Human Body distance > 20 cm)
Module used : cB-OBS433x-A1-0 (connectBlue)
FCC ID module : PVH0939

1.8 Additional information

The manufacturer declares that the device Bluetooth Cap for Field Controller CS15 / CTR16 uses the prequalified radio module cB-OBS433x-A1-0 manufactured by connectBlue. Therefore the following test report is based on a valid FCC approval for the Bluetooth module according to the current measurement standard FCC PART 15 SUBPART C.

Due to the valid FCC approval of the module only spurious emissions are measured.

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 2.5 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} : 5.0VDC

$V_{min} (V_{nom}-15\%)$: N/A

$V_{max} (V_{nom}+15\%)$: N/A

T_{nom} : 25°C

Other parameter: None

2.3 Test equipment utilized

Measurement Equipment List					
No.:	Measurement device:	Type:	Manufacturer:	Last Cal.	Next Cal.
ETS 0086	Semi-anechoic chamber	AC1	Frankonia	09.12.2010	09.12.2012
ETS 0253	Spectrum Analyzer	FSIQ26	Rohde & Schwarz	04.11.2010	04.11.2012
ETS 0030	Biconical Antenna	HK 116	Rohde & Schwarz	10.02.2011	20.02.2012
ETS 0295	LPD Antenna	HL 223	Rohde & Schwarz	09.02.2011	09.02.2012
ETS 0018	Horn Antenna	BBHA 9120D	Schwarzbeck	26.08.2010	26.08.2011
ETS 0432	Amplifier-Matrix			02.06.2010	02.06.2012
ETS 0496	Spectrum Analyzer	FSP30	Rohde & Schwarz	26.08.2010	26.08.2011
ETS 0288	LISN	ESH2-Z5	Rohde & Schwarz	07.09.2010	07.09.2012

2.4 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 μ 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 μ V/m). The FCC limits are given in units of μ V/m. The following formula is used to convert the units of μ V/m to dB μ 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:

Reading	+	AF	=	Net Reading	:	Net reading - FCC limit = Margin
21.5 dB μ V	+	26 dB	=	47.5 dB μ V/m	:	47.5 dB μ V/m - 57.0 dB μ V/m = -9.5 dB

2.5 Test results

Test case	Clause	Required	Result	Remarks
INFORMATIONAL TRANSMITTER PARAMETERS				
Occupied Bandwidth	IC RSS-Gen. 4.6.1	☒		
TRANSMITTER PARAMETERS				
20dB Bandwidth	FCC § 15.247(a)(1) IC RSS-210 § A8.1	☐	N/A	Usage of approved radio module
Frequency hopping channel number	FCC § 15.247(a)(1)(iii) IC RSS-210 § A8.1	☐	N/A	Usage of approved radio module
Frequency hopping channel spacing	FCC § 15.247(a)(1) IC RSS-210 § A8.1	☐	N/A	Usage of approved radio module
Time of occupancy (dwell time)	FCC § 15.247(a)(1)(iii) IC RSS-210 § A8.1	☐	N/A	Usage of approved radio module
Maximum peak conducted output power	FCC § 15.247(b) IC RSS-210 § A8.4	☐	N/A	Usage of approved radio module
Maximum peak e.i.r.p. output power	FCC § 15.247(b) IC RSS-210 § A8.4	☐	N/A	Usage of approved radio module
Band-edge Compliance	FCC § 15.247(d) IC RSS-210 § A8.5	☐	N/A	Usage of approved radio module
Conducted spurious emissions	FCC § 15.247(d) IC RSS-210 § A8.5	☐	N/A	Usage of approved radio module
Radiated spurious emissions	FCC § 15.247(d) FCC § 15.209 IC RSS-210 A8.5 IC RSS-Gen 4.9 IC RSS-Gen 7.2.5	☒	PASS	
RECEIVER PARAMETERS				
Radiated spurious emissions	FCC § 15.109 IC RSS-Gen 4.10 IC RSS-Gen 6.1	☒	PASS	
POWER LINE PARAMETERS				
AC power line conducted emissions	FCC § 15.207 IC RSS-Gen. 7.2.4	☐	N/A	Usage of approved radio module

3 Informational Transmitter parameters

3.1 Transmitter Modes for conformance testing

The following transmission modes are elected for compliance testing.

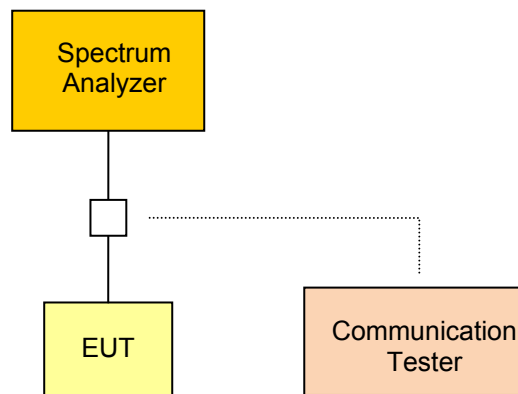
TEST MODE DH5	
Conditions	
Spread Spectrum	☒ Yes ☐ No
Spreading Technique	FHSS
Modulation	GFSK
Packet Type	DH5
Data rate	1Mbps

TEST MODE 3-DH5	
Conditions	
Spread Spectrum	☒ Yes ☐ No
Spreading Technique	FHSS
Modulation	8-DPSK
Packet Type	3-DH5
Data rate	3Mbps

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			
Power occupation		99%	
Channel [MHz]	Lower edge frequency [MHz]	Upper edge frequency [MHz]	Occupied Bandwidth [MHz]
Test mode DH5			
2441	2440.31	2441.58	0.905
Test mode 3-DH5			
2441	2440.31	2441.58	1.193
See attached diagram in Annex			

4 Transmitter parameters

4.1 Transmitter radiated 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.

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

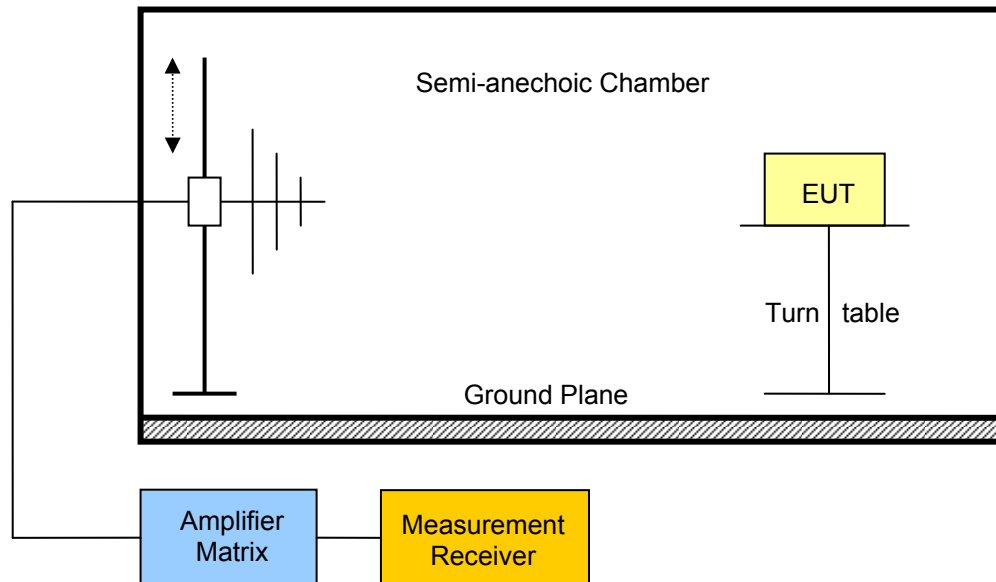
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

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

4.1.2 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.

4.1.3 Results

Transmitter radiated spurious emissions – DH5						
Measurement Conditions						
Measurement distance		3m				
Modulated		☒ Yes ☐ No				
Channel Frequency [MHz]	Emission Frequency [MHz]	Polarization	Measured Field Strength [dBμV/m]	Limit@3m [dBμV/m]	Detector	Margin [dB]
Test mode DH5 - antenna extended						
0	2390	v	57.6	74	p	-16.4
0	2389	v	50.2	54	av	-3.8
39	7327	v	53.0	74	p	-21.0
78	2483.5	v	59.7	74	p	-14.3
78	2493	v	48.2	54	av	-5.8
78	7447	v	54.0	74	p	-20.0
78	7440	v	48.5	54	av	-5.5
Test mode DH5 - antenna retracted						
78	7440	v	48.5	54	av	-5.5
78	7440	h	44.3	54	av	-10.7
See attached diagrams in Annex						
Verdict					PASS	

Transmitter radiated spurious emissions – 3-DH5						
Measurement Conditions						
Measurement distance		3m				
Modulated		☒ Yes ☐ No				
Channel Frequency [MHz]	Emission Frequency [MHz]	Polarization	Measured Field Strength [dBμV/m]	Limit@3m [dBμV/m]	Detector	Margin [dB]
Test mode 3-DH5 - antenna extended						
0	2389	v	57.82	74	p	-16.18
0	2389	v	50.25	54	av	-3.75
78	2490	v	56.37	74	p	-17.63
78	2493	v	48.29	54	av	-5.71
See attached diagrams in Annex						
Verdict					PASS	

5 Receiver parameters

5.1 Receiver spurious emissions

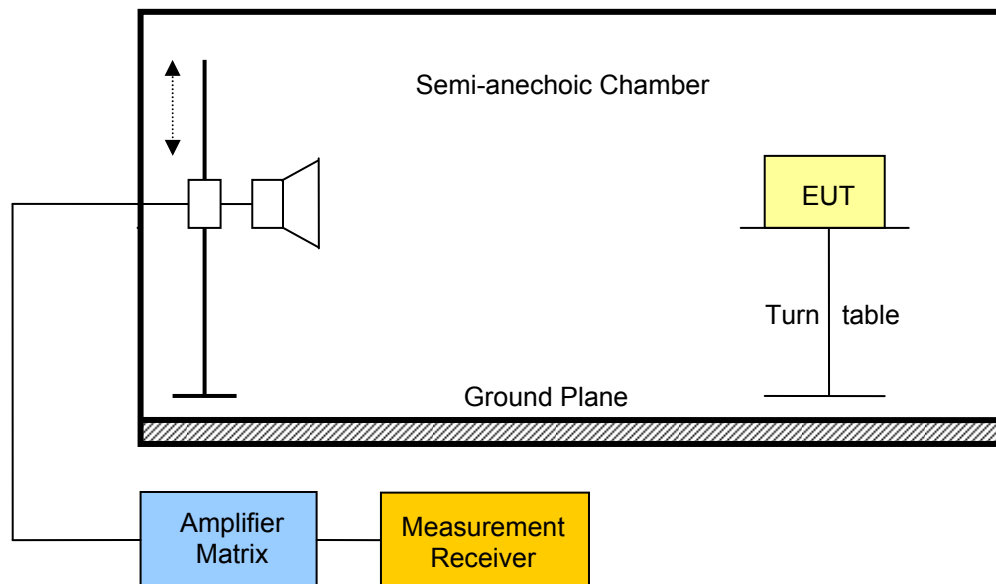
According RSS-Gen Section 4.9 the emissions of unintentional radiators have to comply with limits stated in the rules.

5.1.1 Limits

Receiver spurious emission limits @ 3m				
Frequency range [MHz]	Detector	Limit@3m [$\mu\text{V/m}$]	Calculated Limit @ 3m [$\text{dB}\mu\text{V/m}$]	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

5.1.2 Measurement procedure

The spurious emission measurement is performed on a 3m open area test site.



The EUT is placed on a non-metallic table. Any emission is received by a loop antenna and measured via a measurement receiver connected to the loop 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 3rd harmonic.

5.1.3 Results

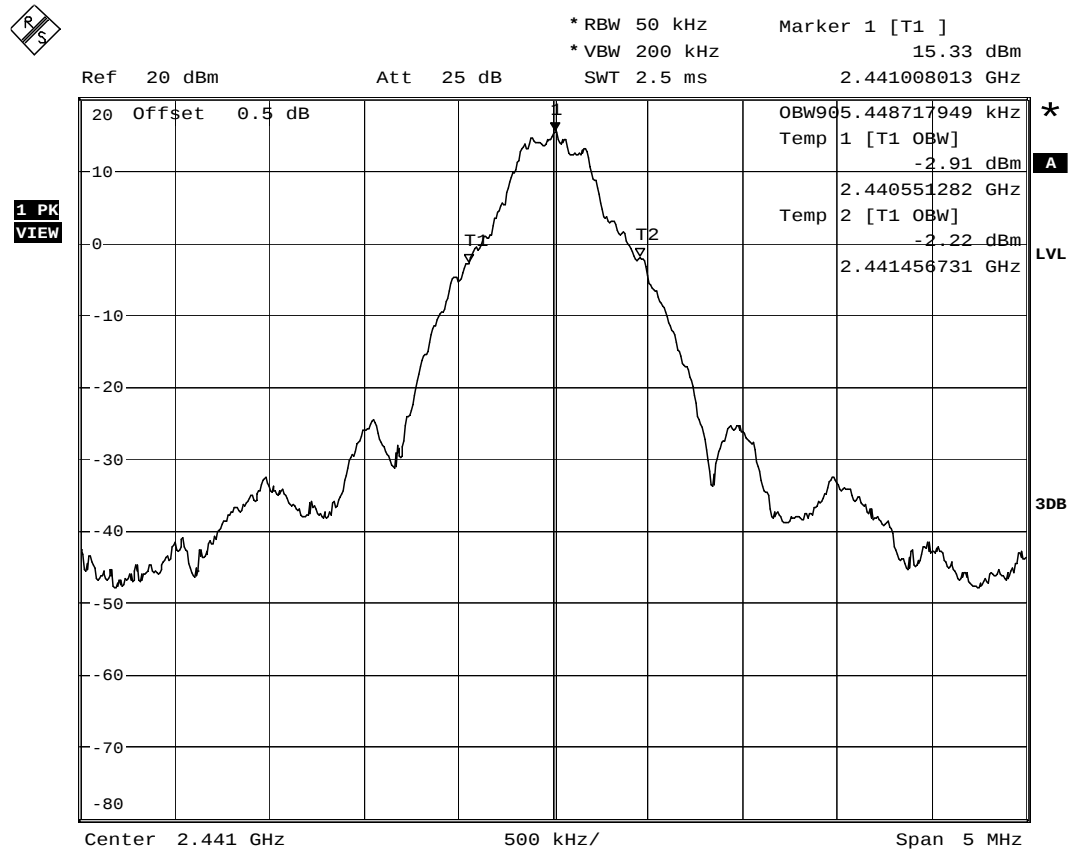
Receiver spurious Emissions						
Measurement Conditions						
Measurement distance		3m				
Channel Frequency [MHz]	Emission Frequency [MHz]	Polarization	Measured Field Strength [μV/m]	Limit@3m [μV/m]	Detector	Margin [μV/m]
Scan	189.439	V	44.77	150	P	-105.23
	188.758	H	43.50	150	P	-106.50
	931.062	V	28.54	200	P	-171.46
	931.062	H	28.22	200	P	-171.78
	3970.000	V	143.05	500	P	-356.95
	3910.000	H	146.22	500	P	-353.78
	7727.000	V	303.74	500	P	-196.26
	7968.000	H	297.17	500	P	-202.83
See attached diagrams in Annex						
Verdict					PASS	

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

Annex B Transmitter occupied bandwidth

RSS Gen Occupied Bandwidth

EUT	Bluetooth Cap for Field Controller CS15
Model	CTR16
Approval Holder	Leica Geosystems AG / Ord.: G0M-1106-1222
Temperature / Voltage	tnom / 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	GFSK

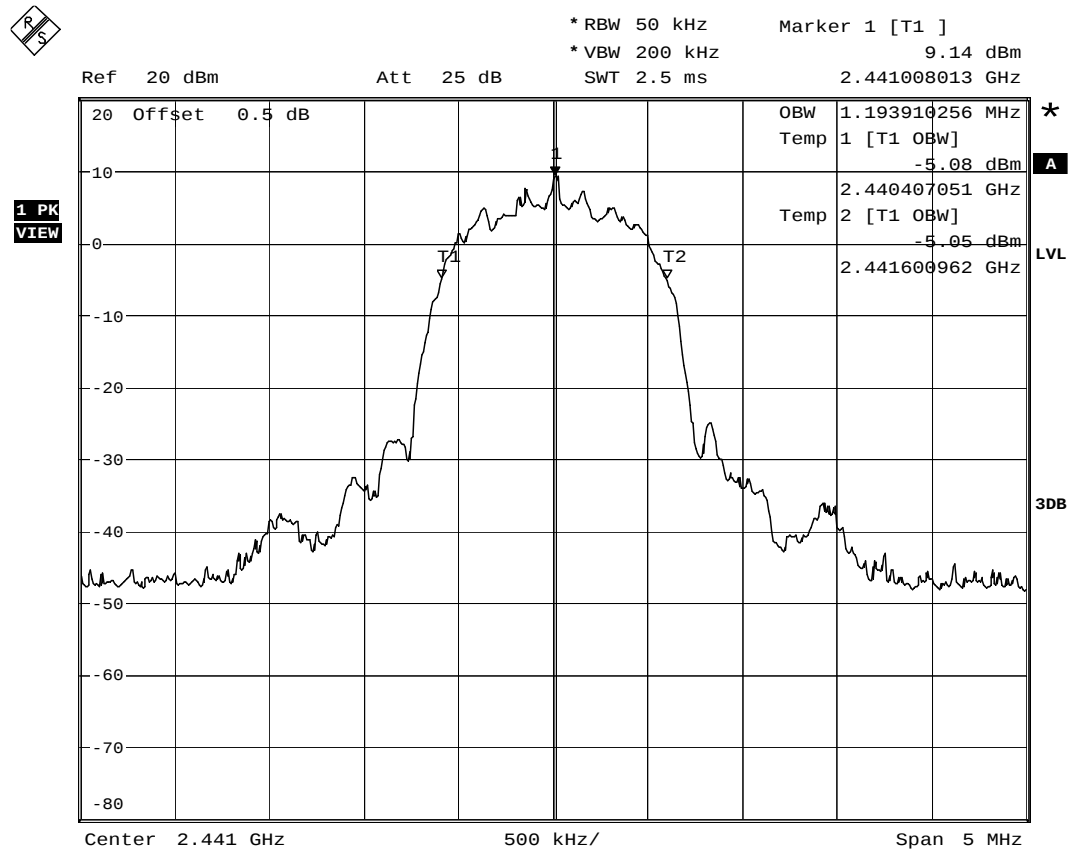


Occupied bandwidth: 905.4 KHz

Date: 6.JUL.2011 13:04:35

RSS Gen Occupied Bandwidth

EUT	Bluetooth Cap for Field Controller CS15
Model	CTR16
Approval Holder	Leica Geosystems AG / Ord.: G0M-1106-1222
Temperature / Voltage	tnom / 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	8DPSK



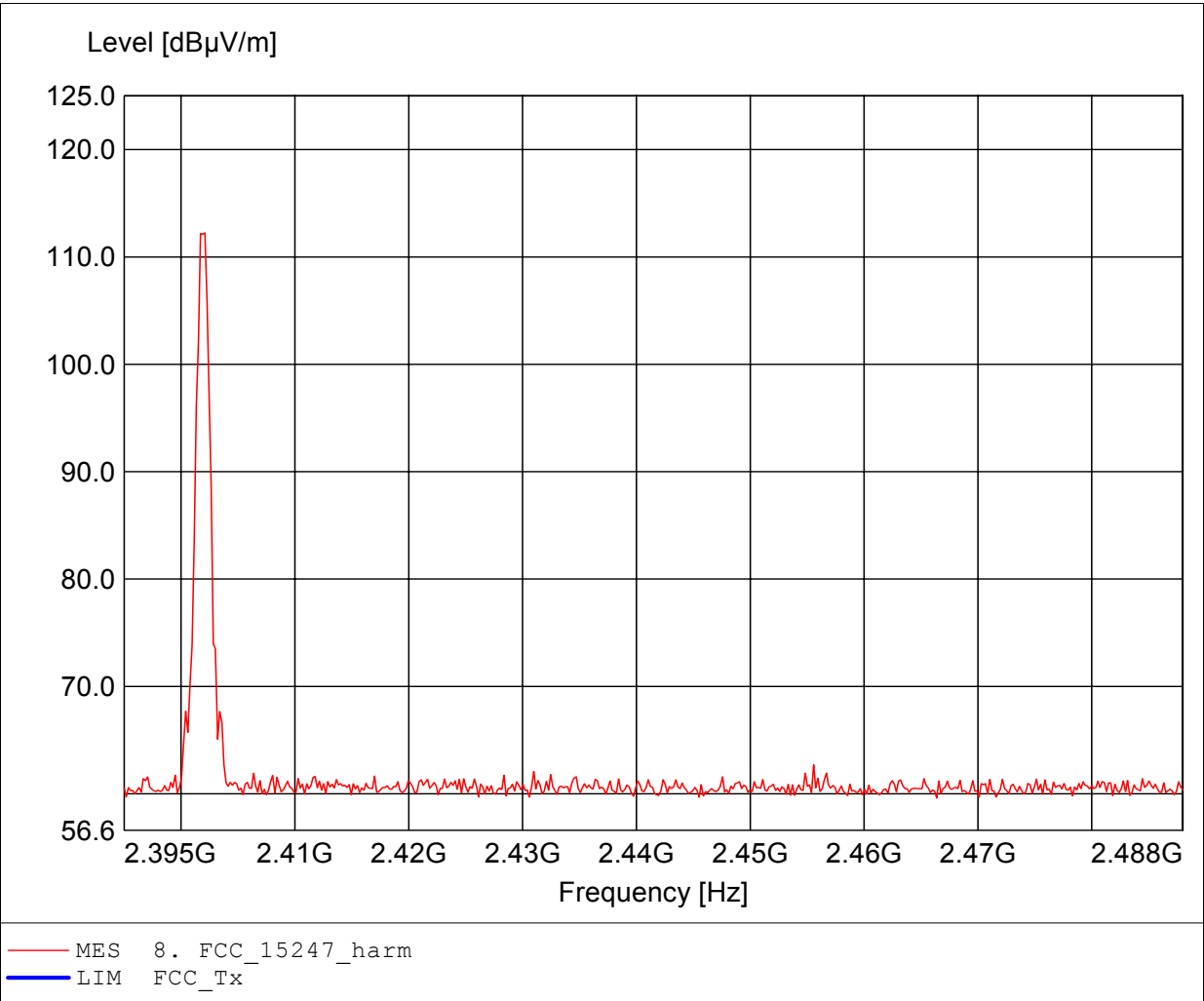
Occupied bandwidth: 1193.9 KHz
 Date: 6.JUL.2011 13:07:59

Annex C Transmitter radiated spurious emissions

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

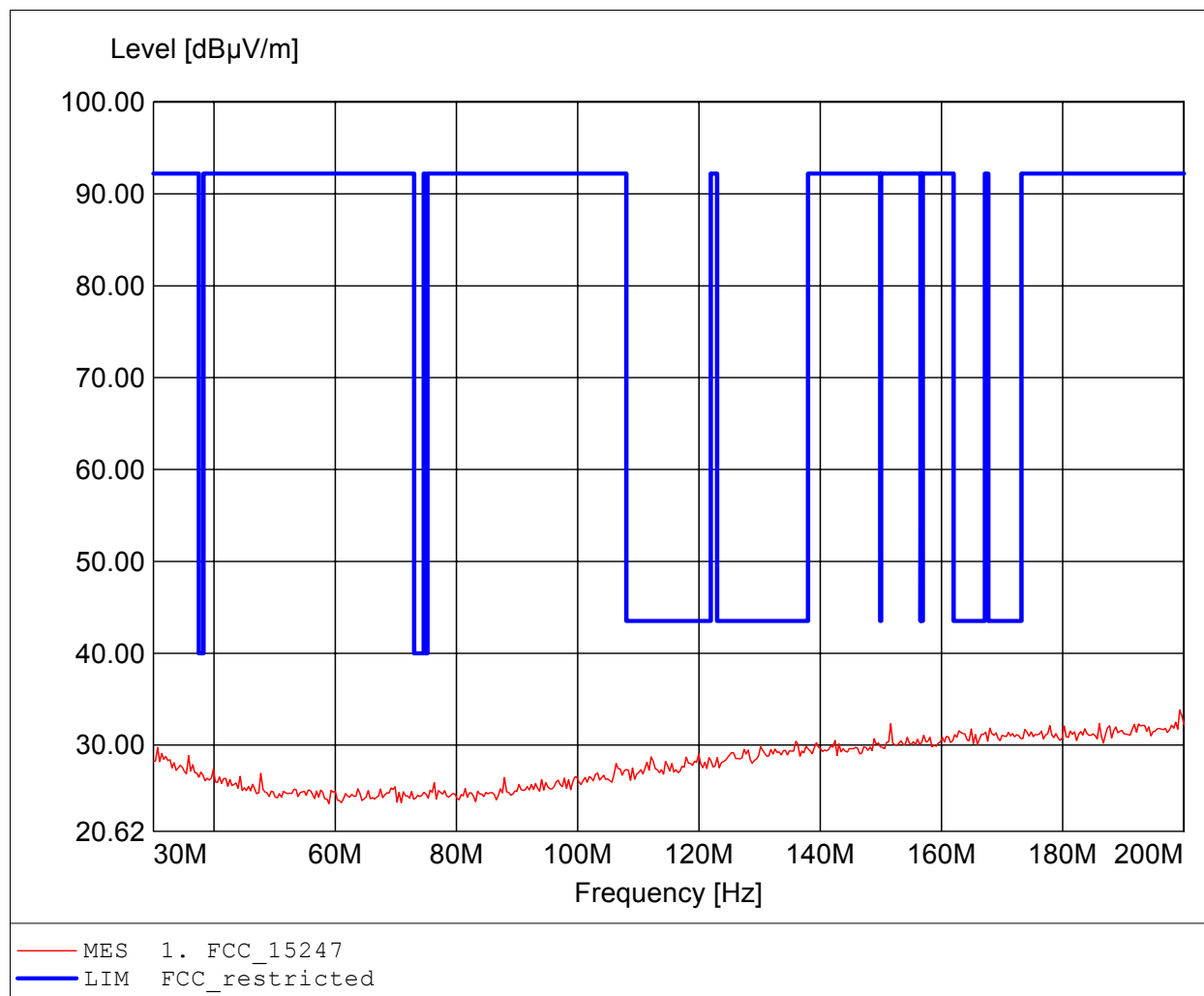
Approval Holder: Leica Geosystems AG / G0M-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402, 41, 80 MHz / EUT-ant. hor.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Emax: 112.24dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

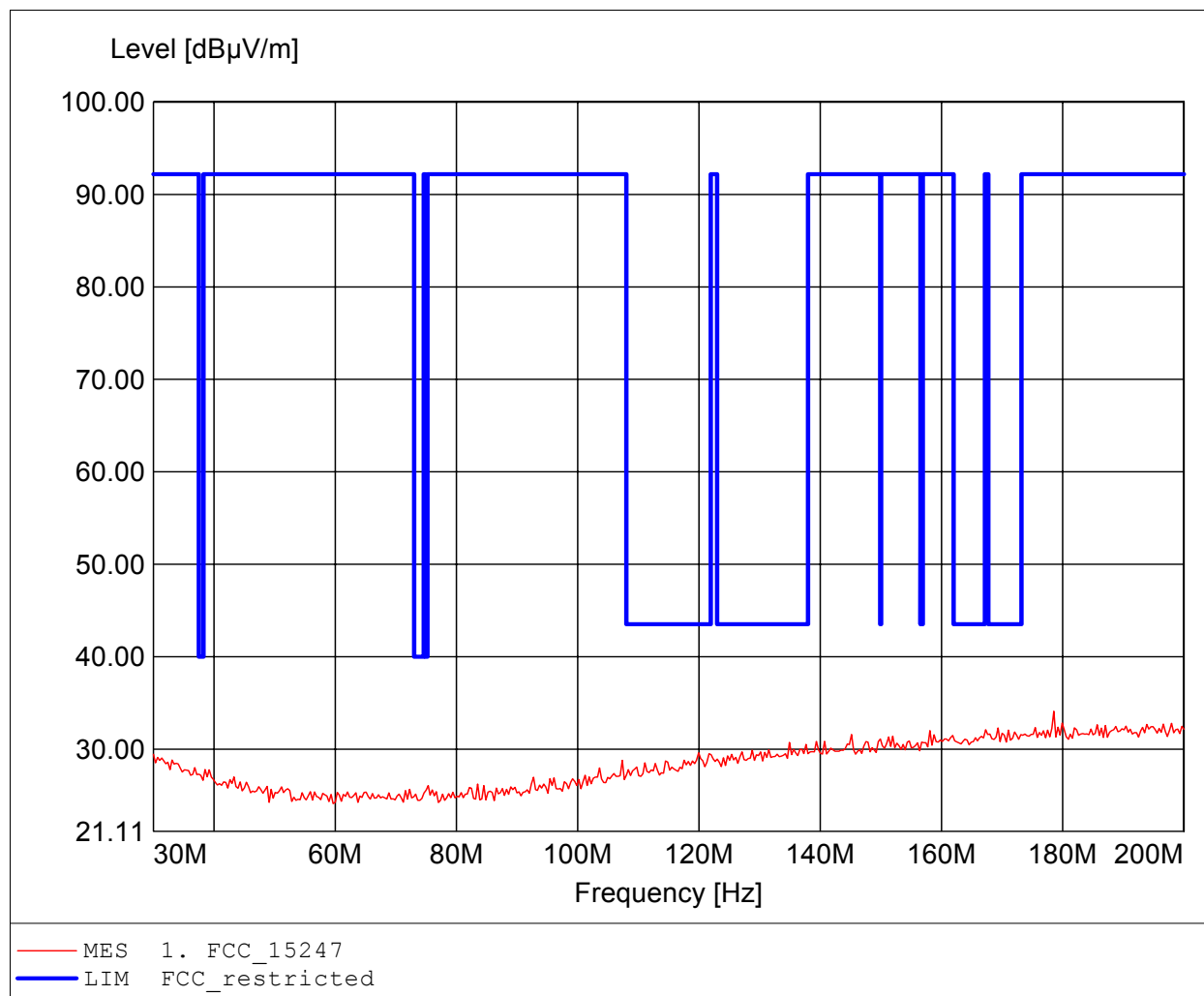
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert. worst case
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 199.319MHz, Emax: 33.82dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

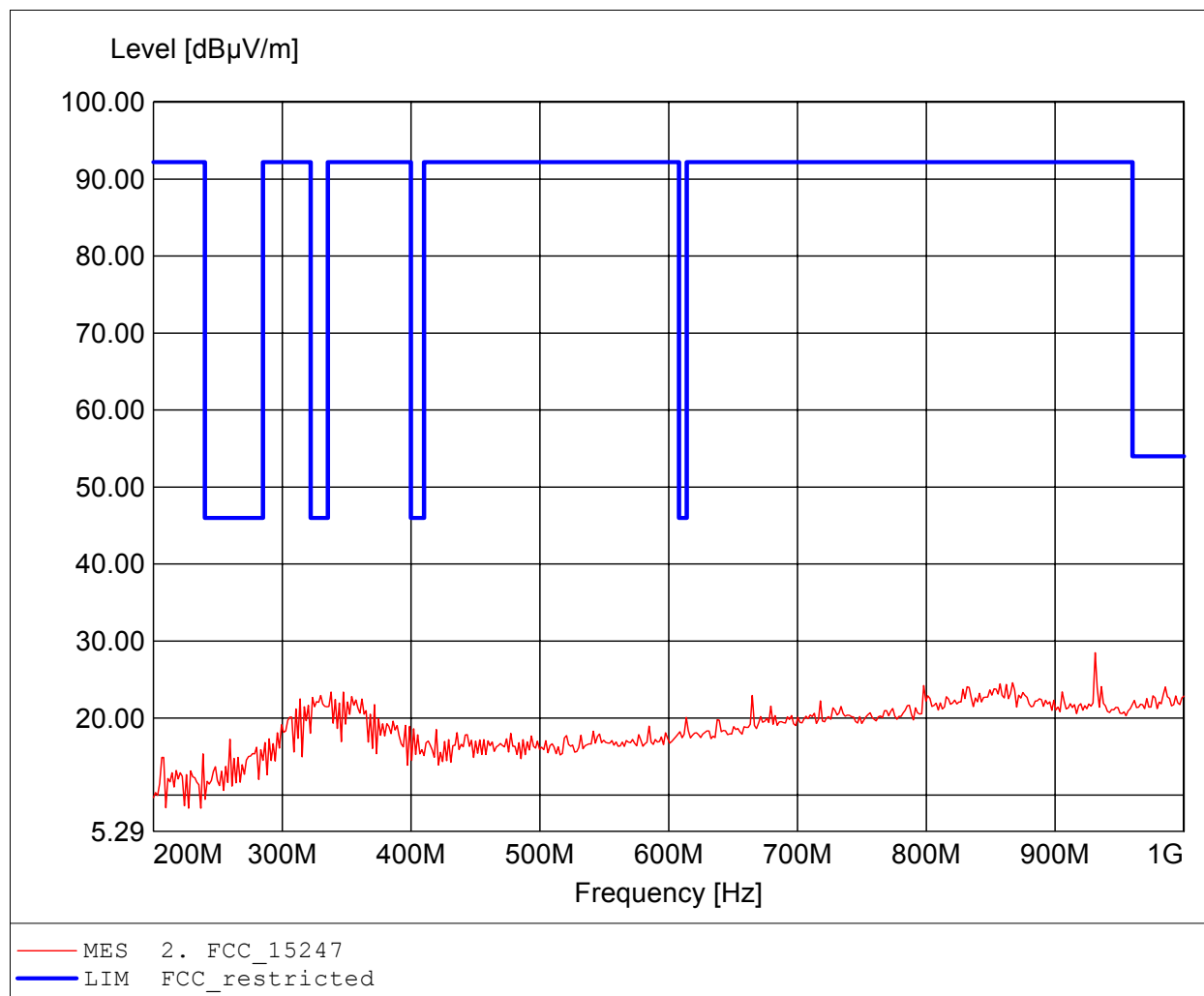
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert. worst case
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 178.537MHz, Emax: 34.10dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

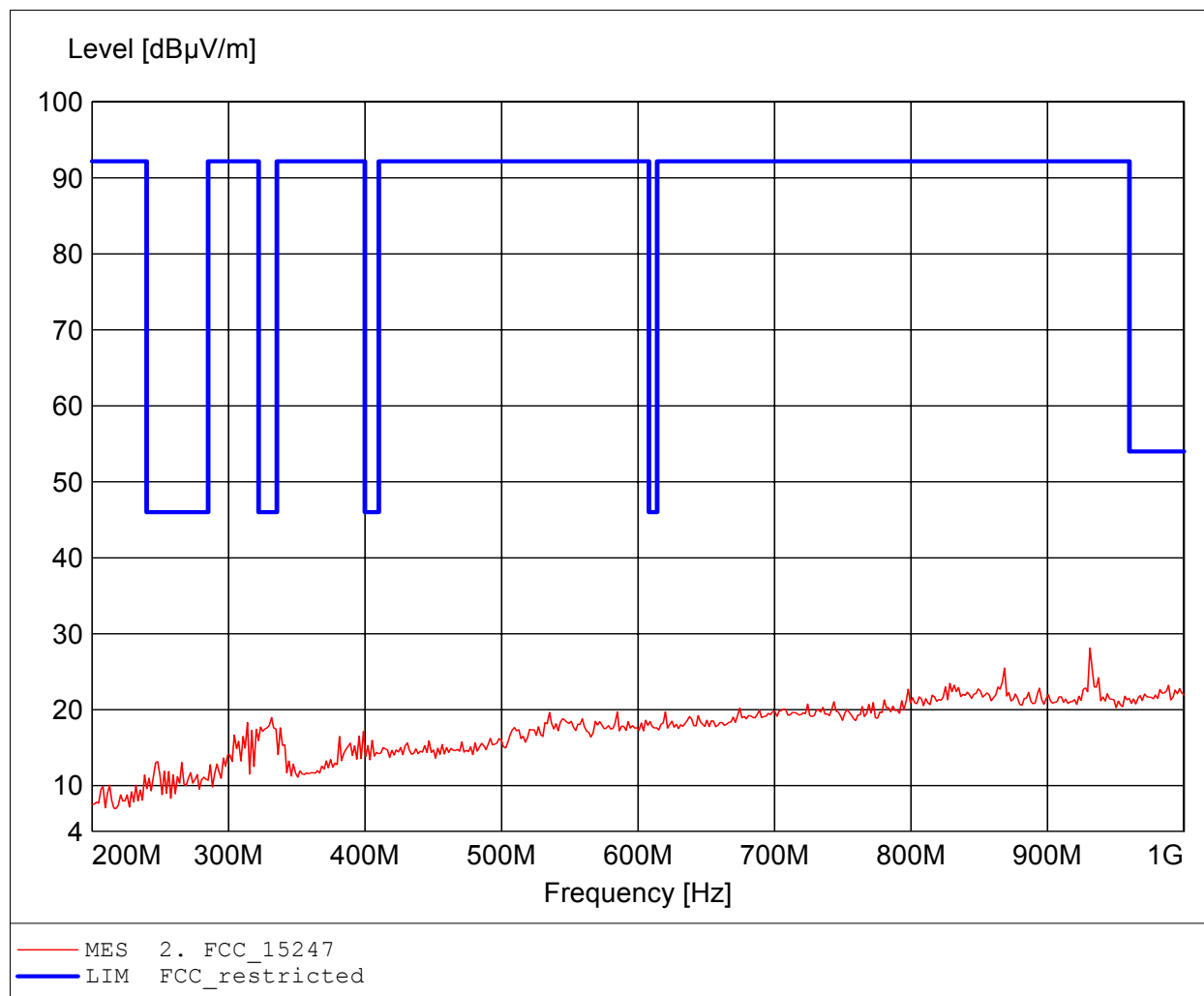
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert. worst case
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 931.062MHz, Emax: 28.49dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

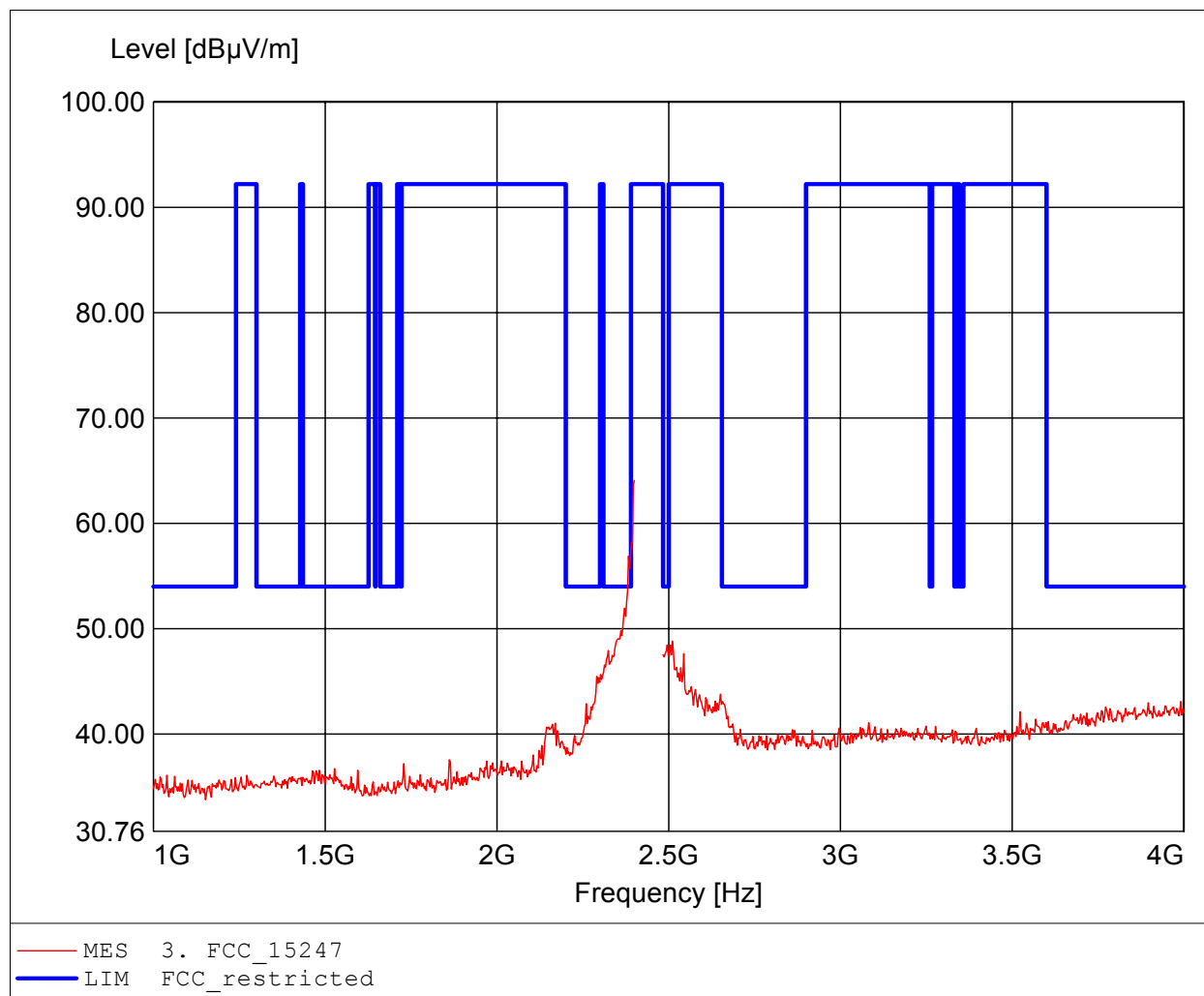
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert. worst case
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 931.062MHz, Emax: 28.10dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

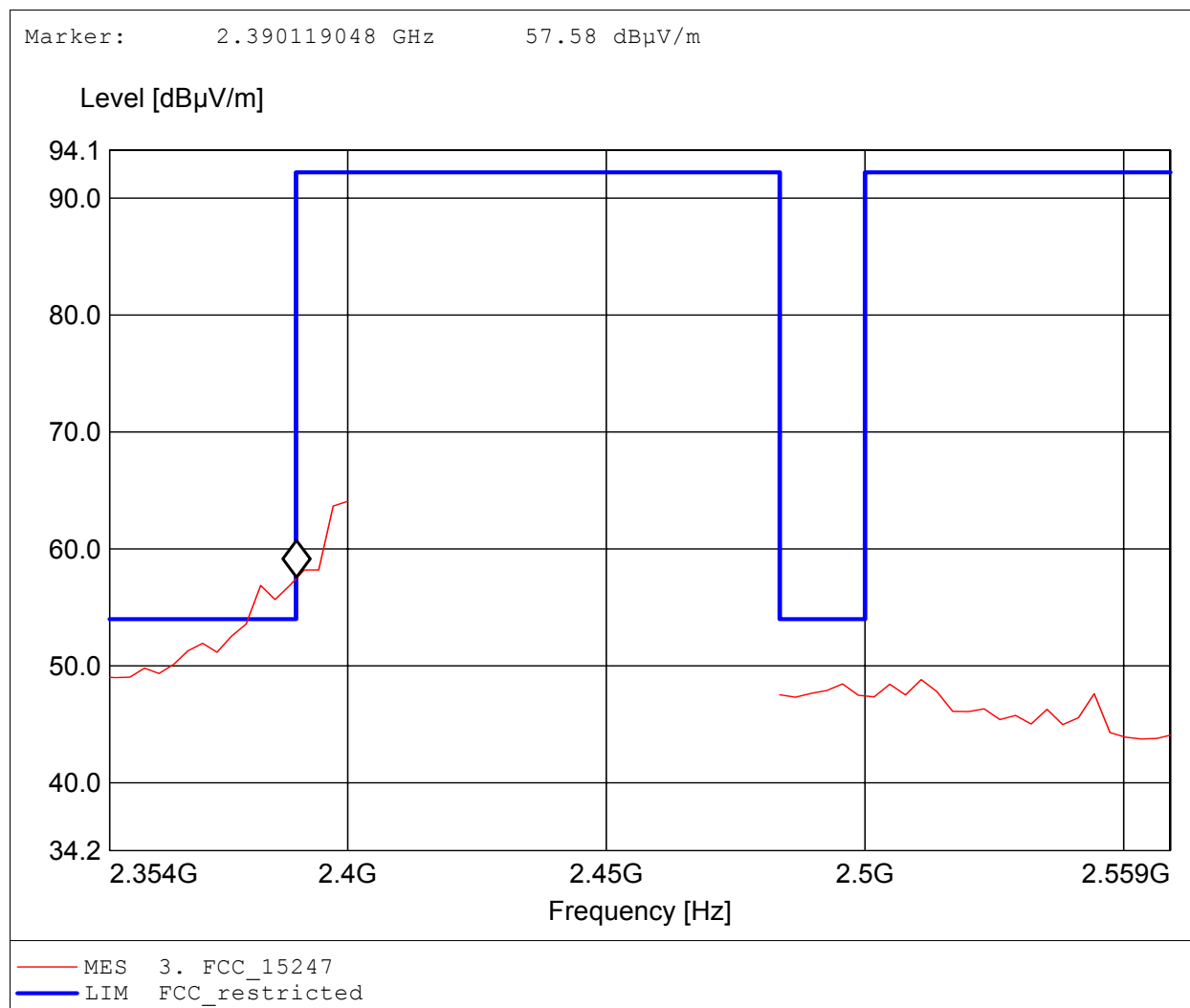
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 64.06dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

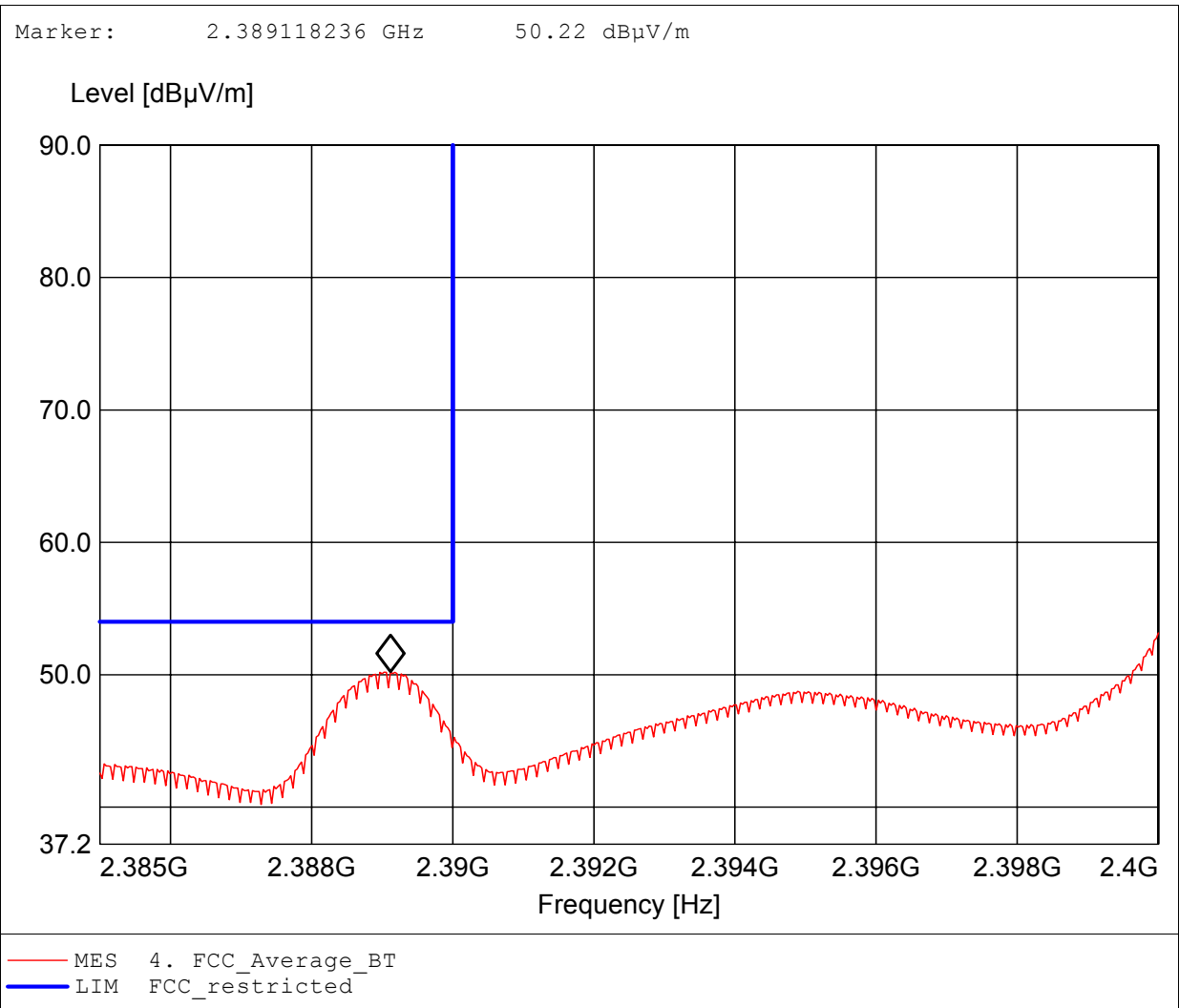
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 64.06dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

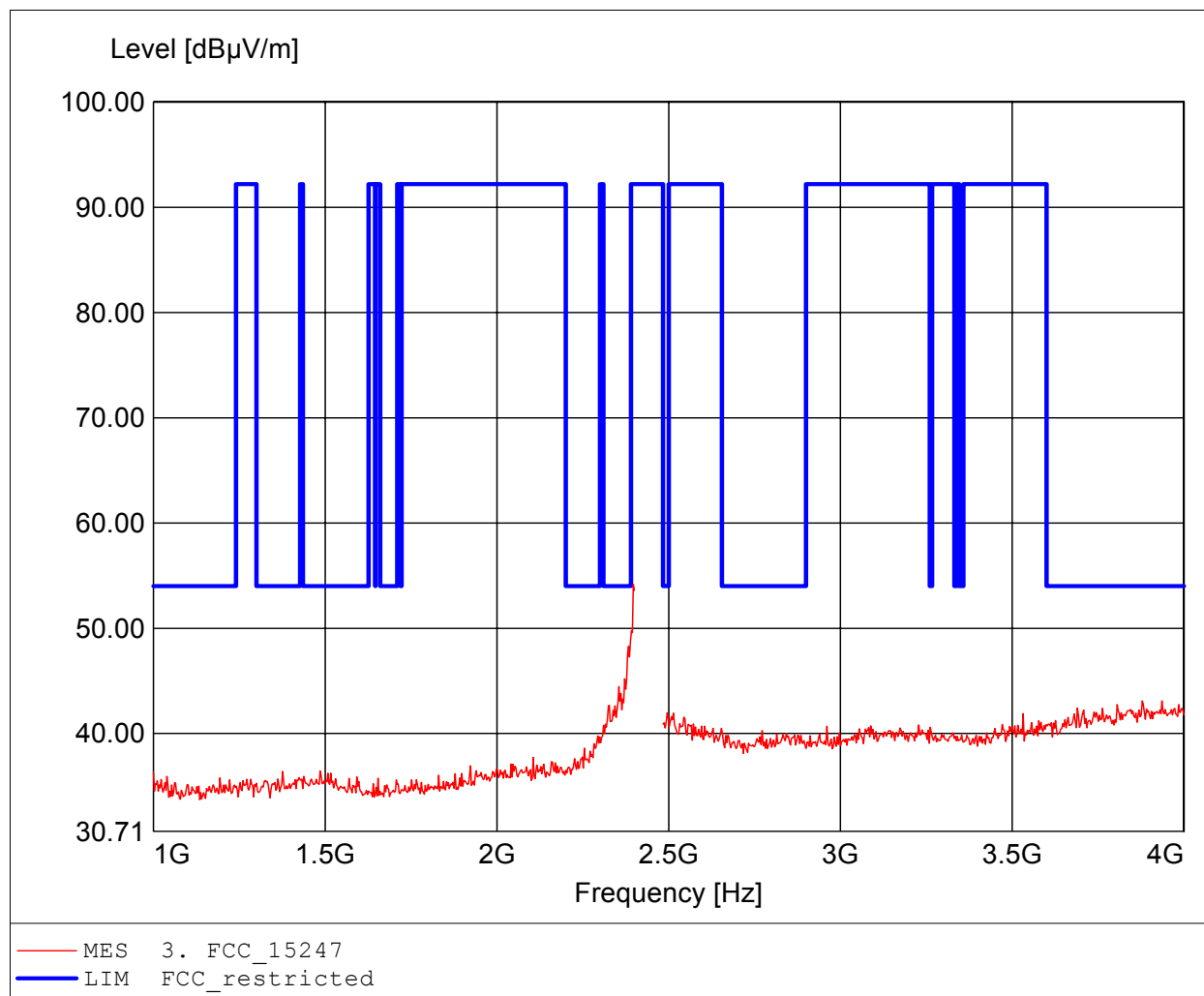
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 2.400GHz, Emax: 53.16dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

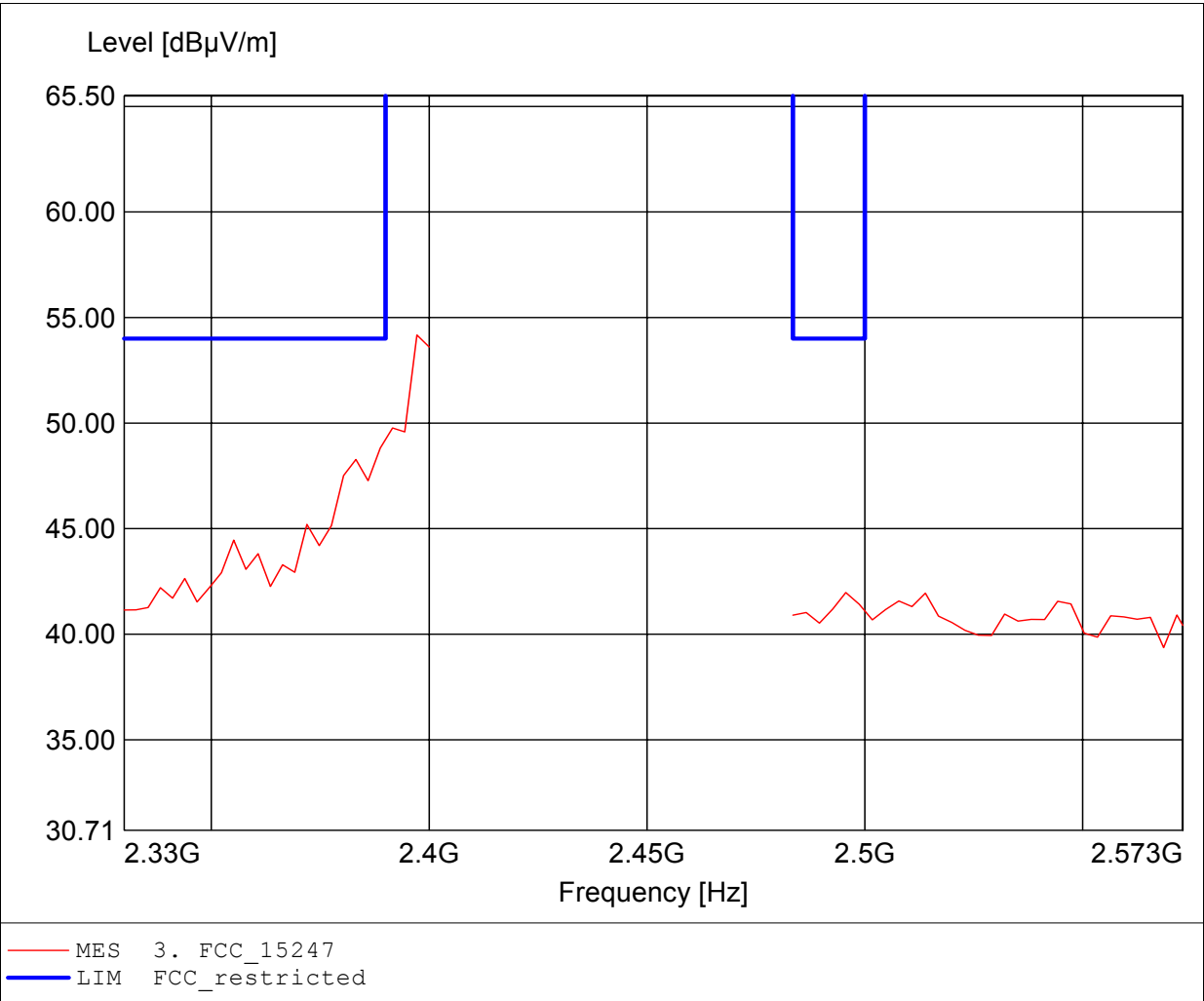
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.397GHz, Emax: 54.17dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

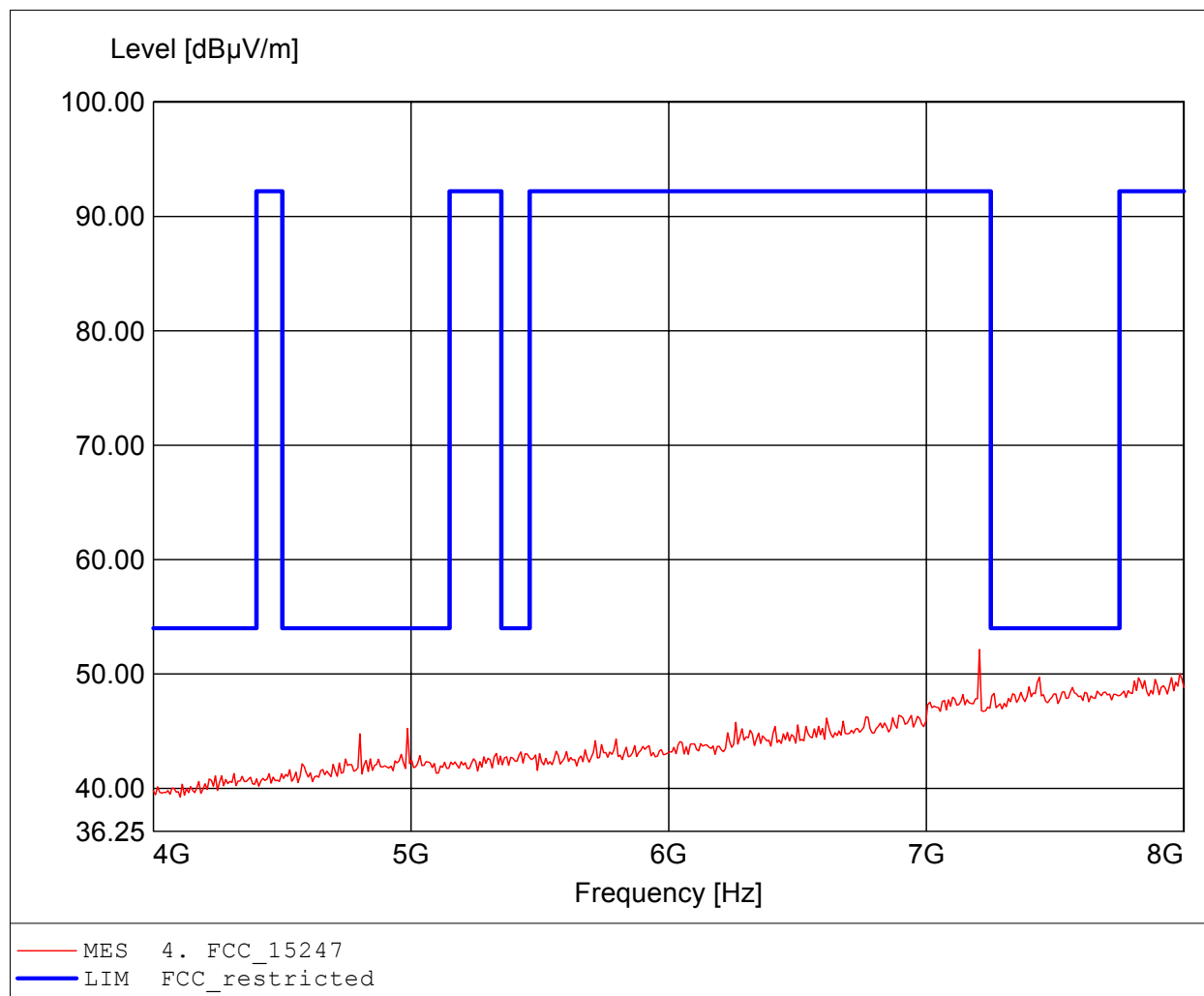
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.397GHz, Emax: 54.17dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

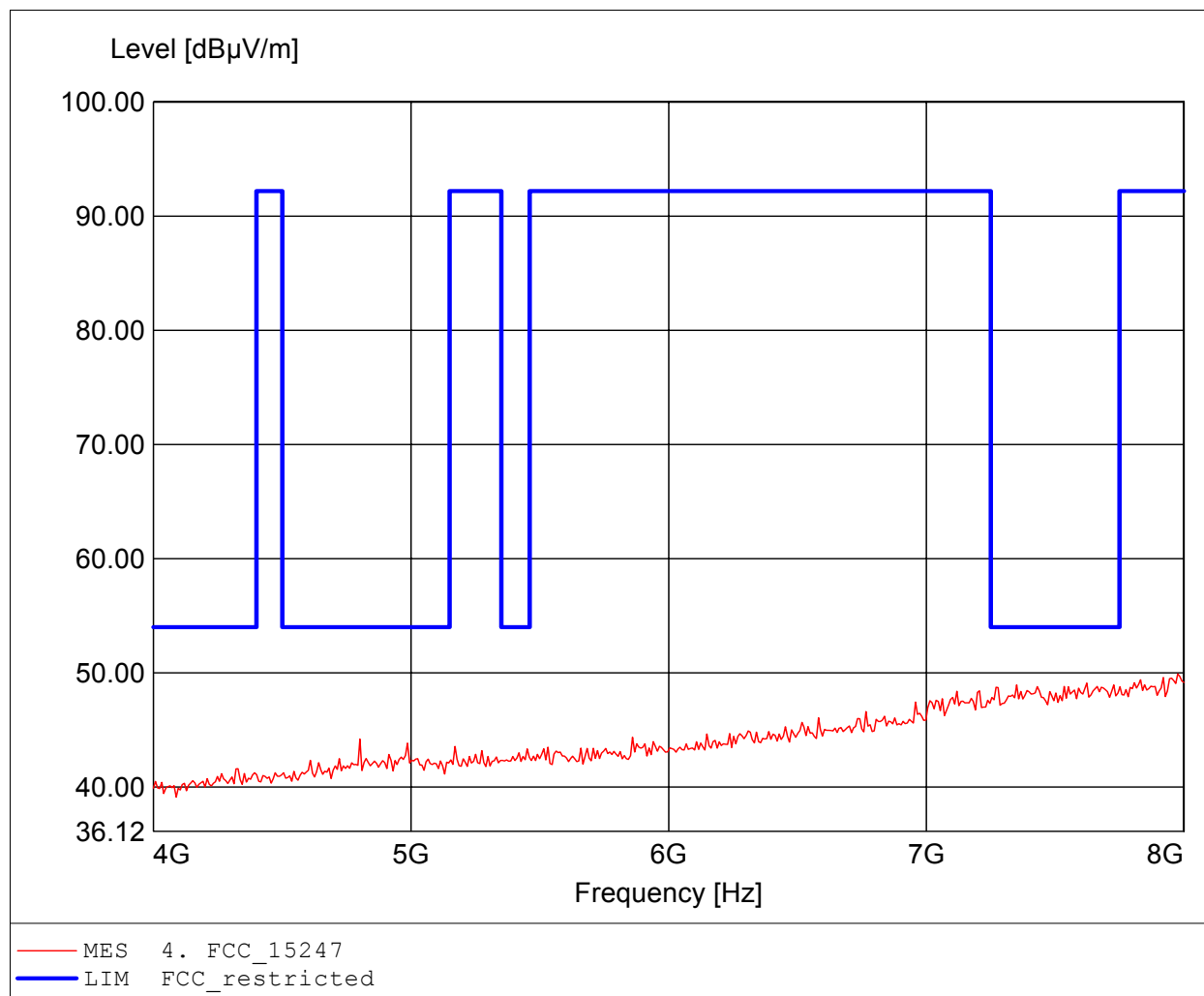
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.206GHz, Emax: 52.14dB μ V/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

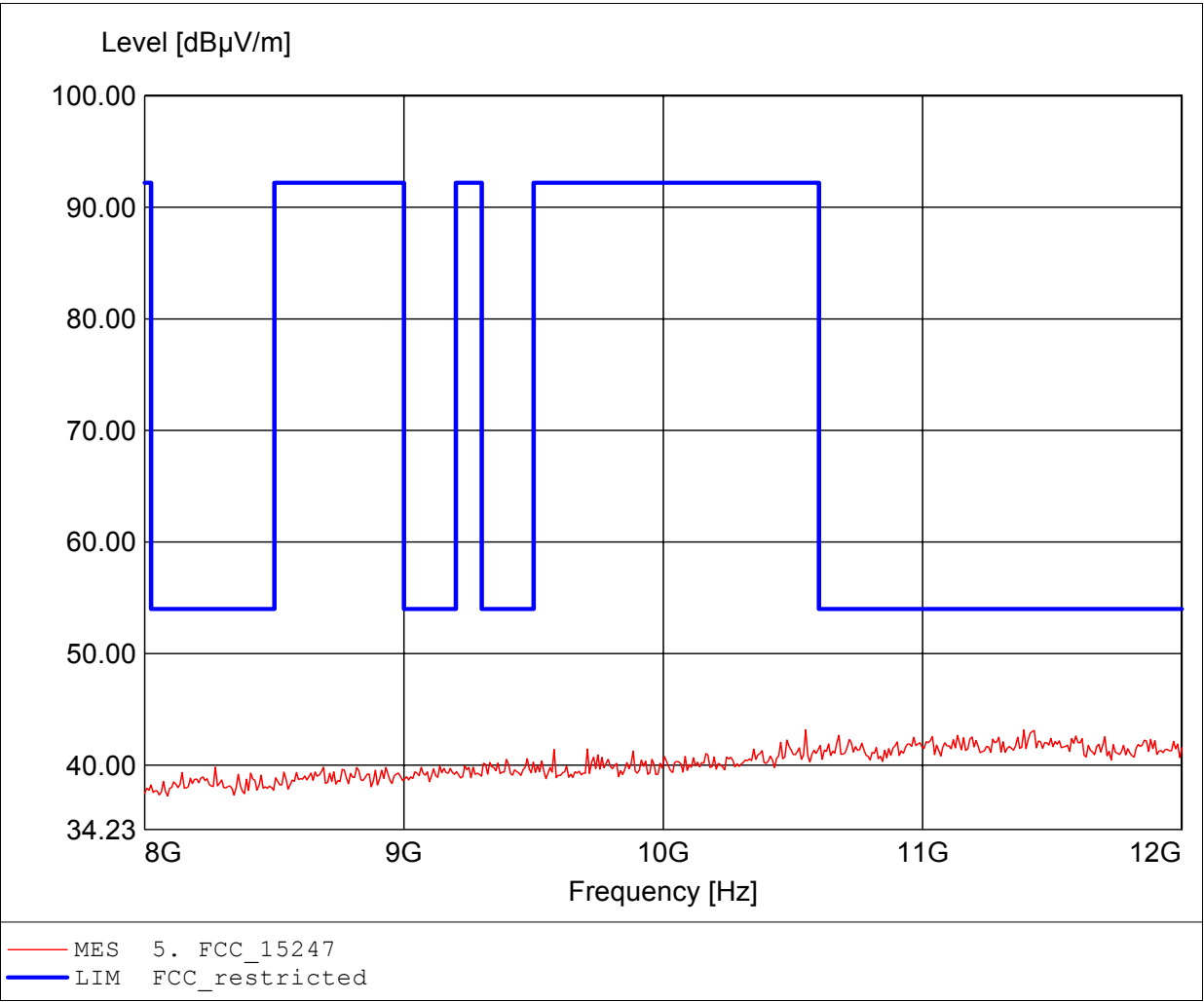
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.976GHz, Emax: 49.91dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

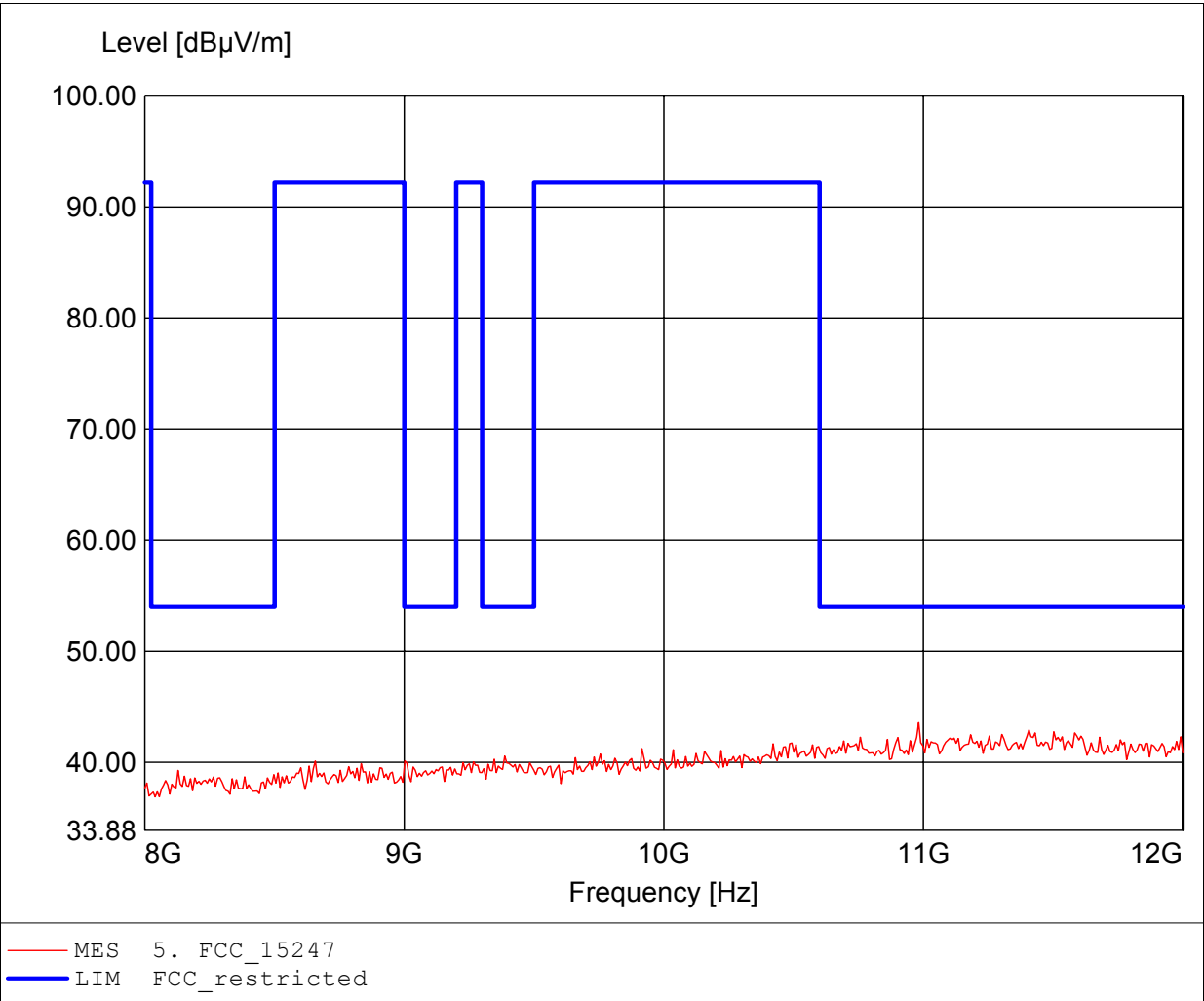
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 10.549GHz, Emax: 43.18dBuV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

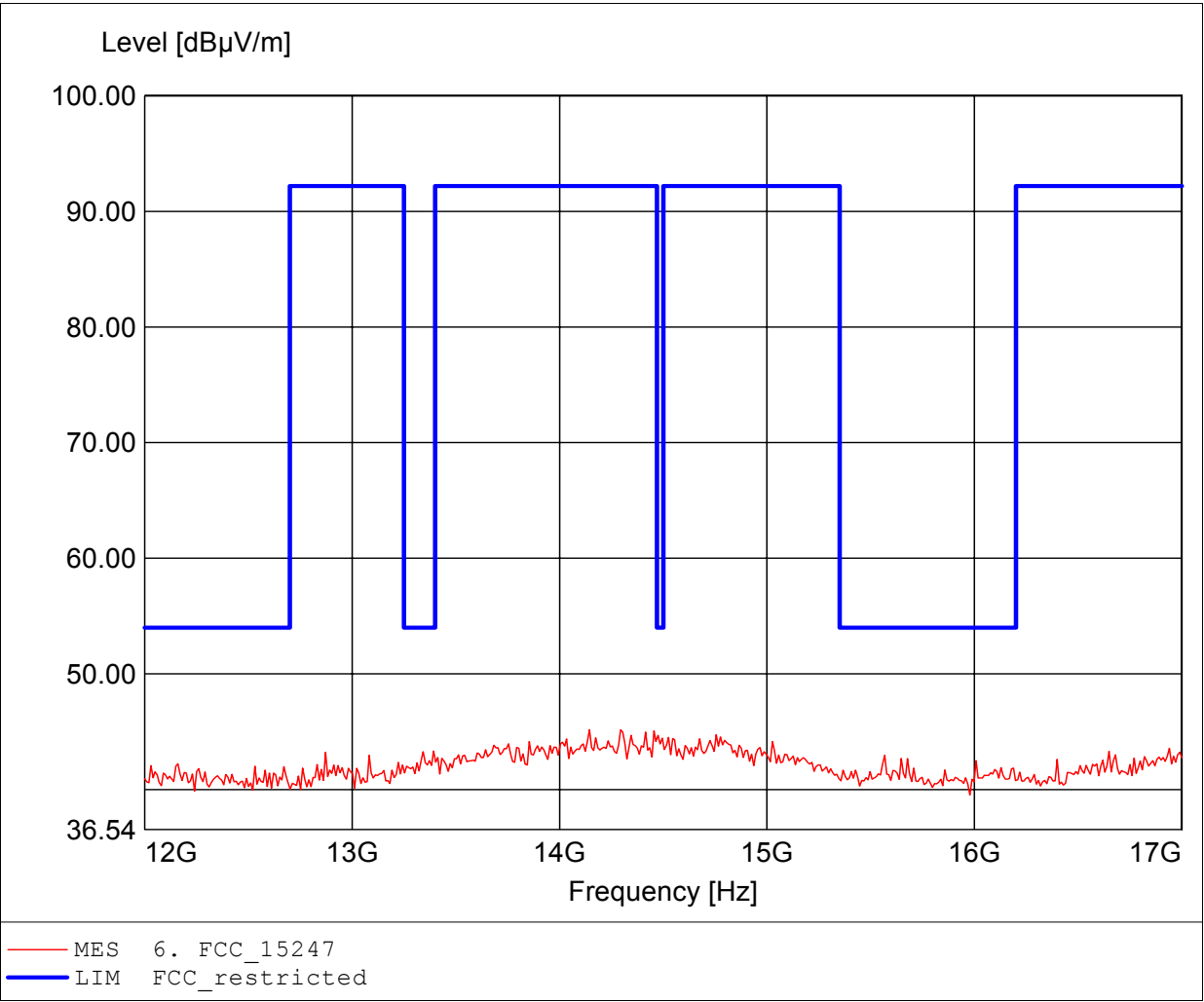
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 10.982GHz, Emax: 43.59dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

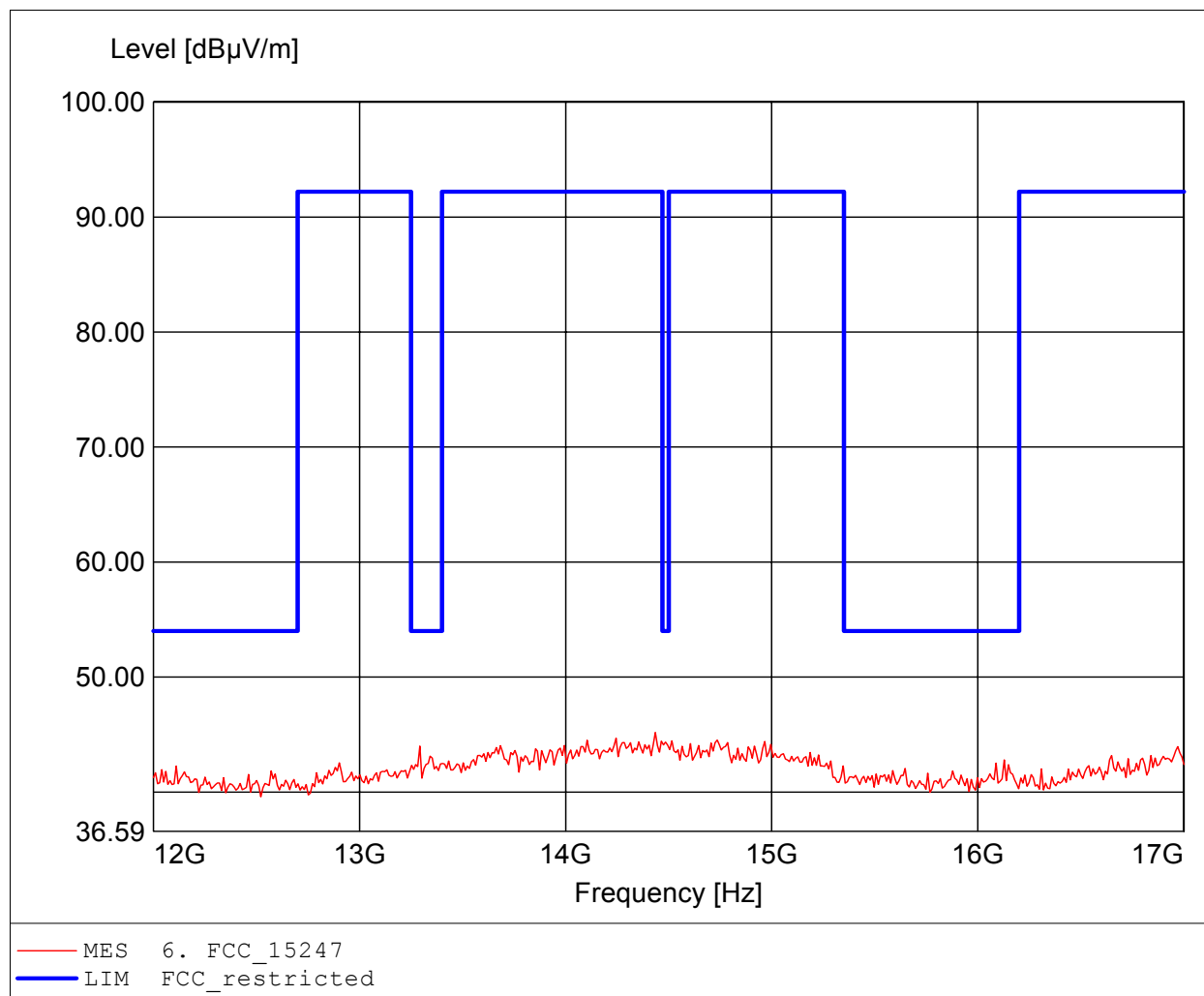
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.144GHz, Emax: 45.17dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

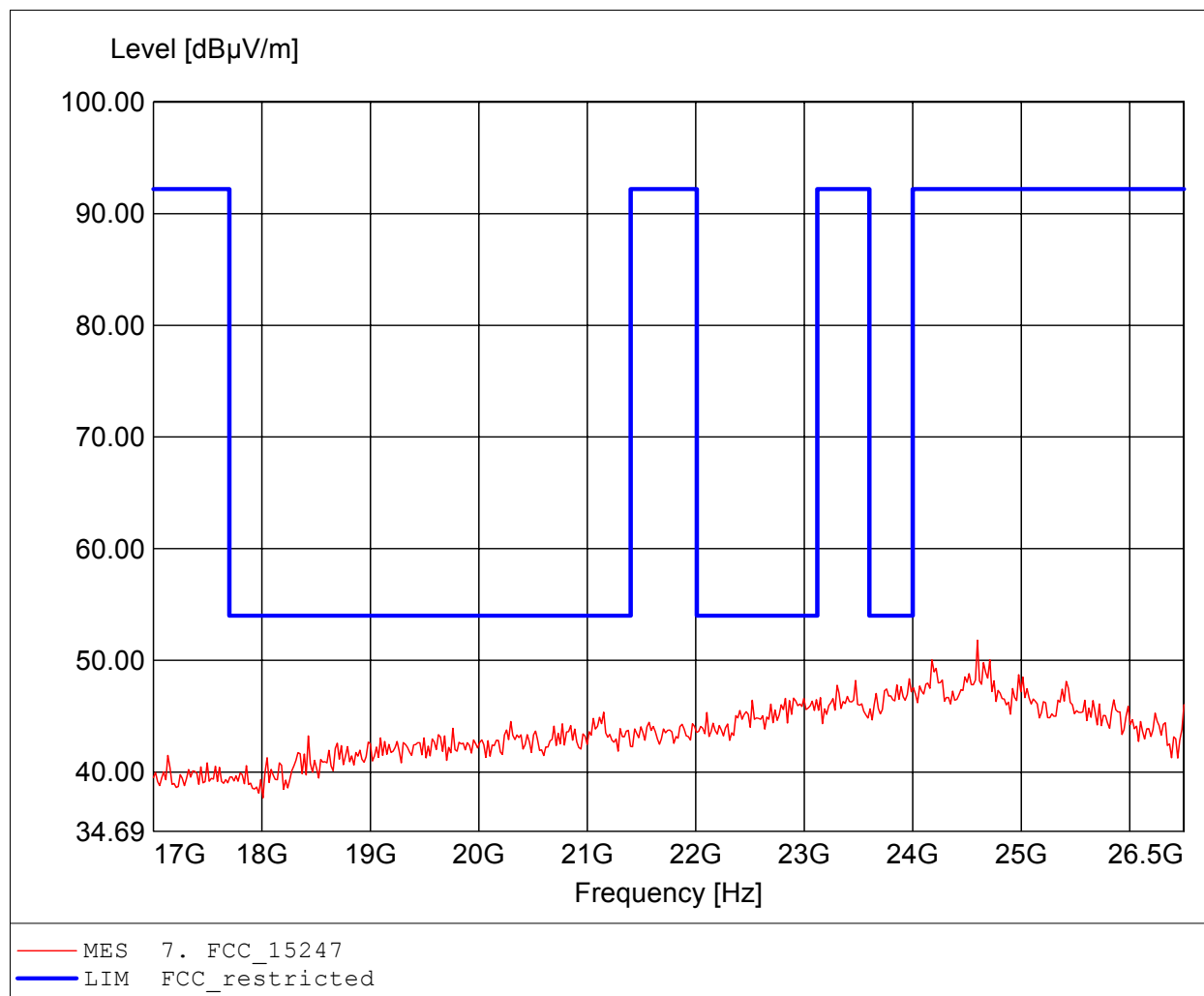
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.435GHz, Emax: 45.18dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

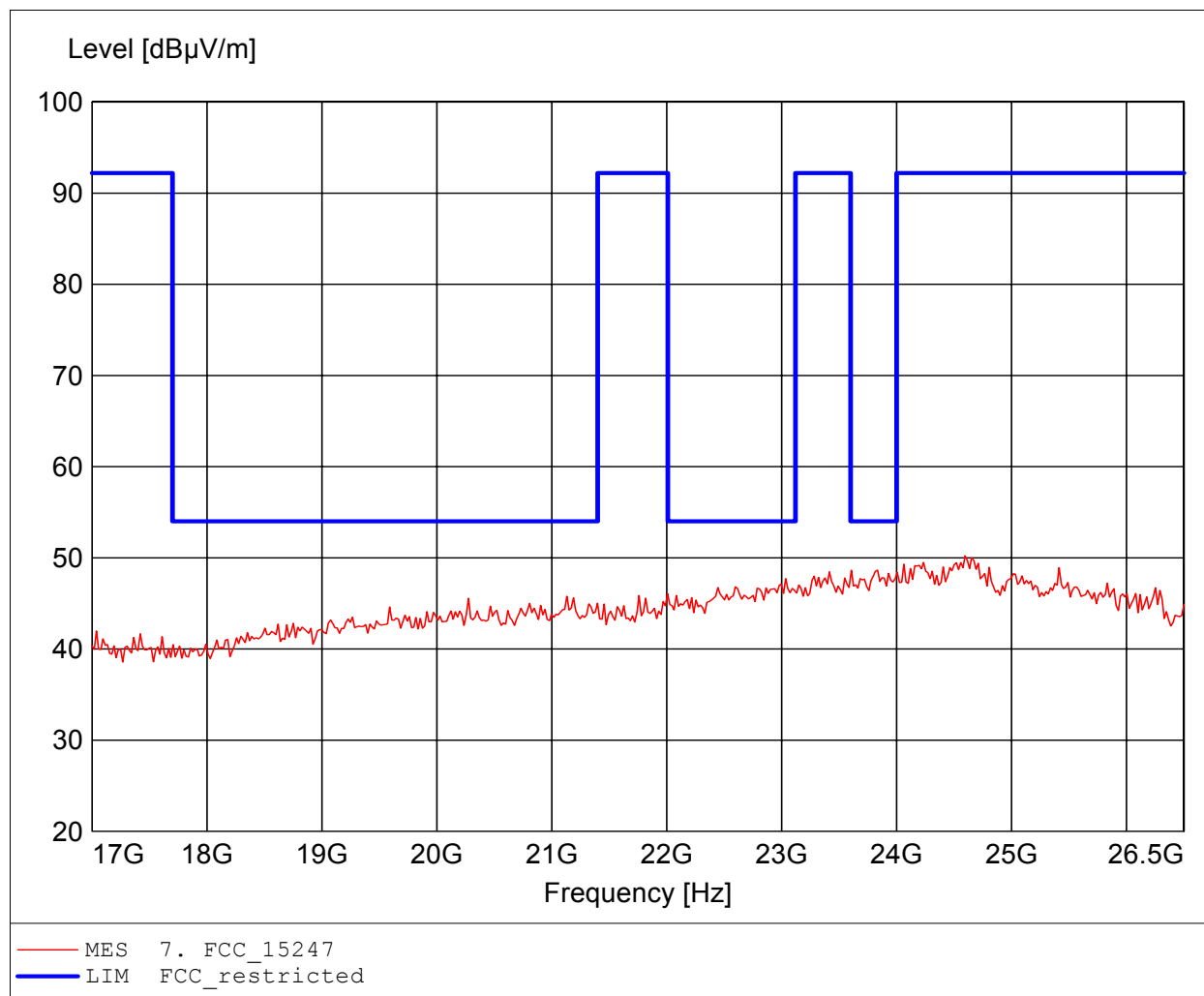
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 24.596GHz, Emax: 51.80dBuV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

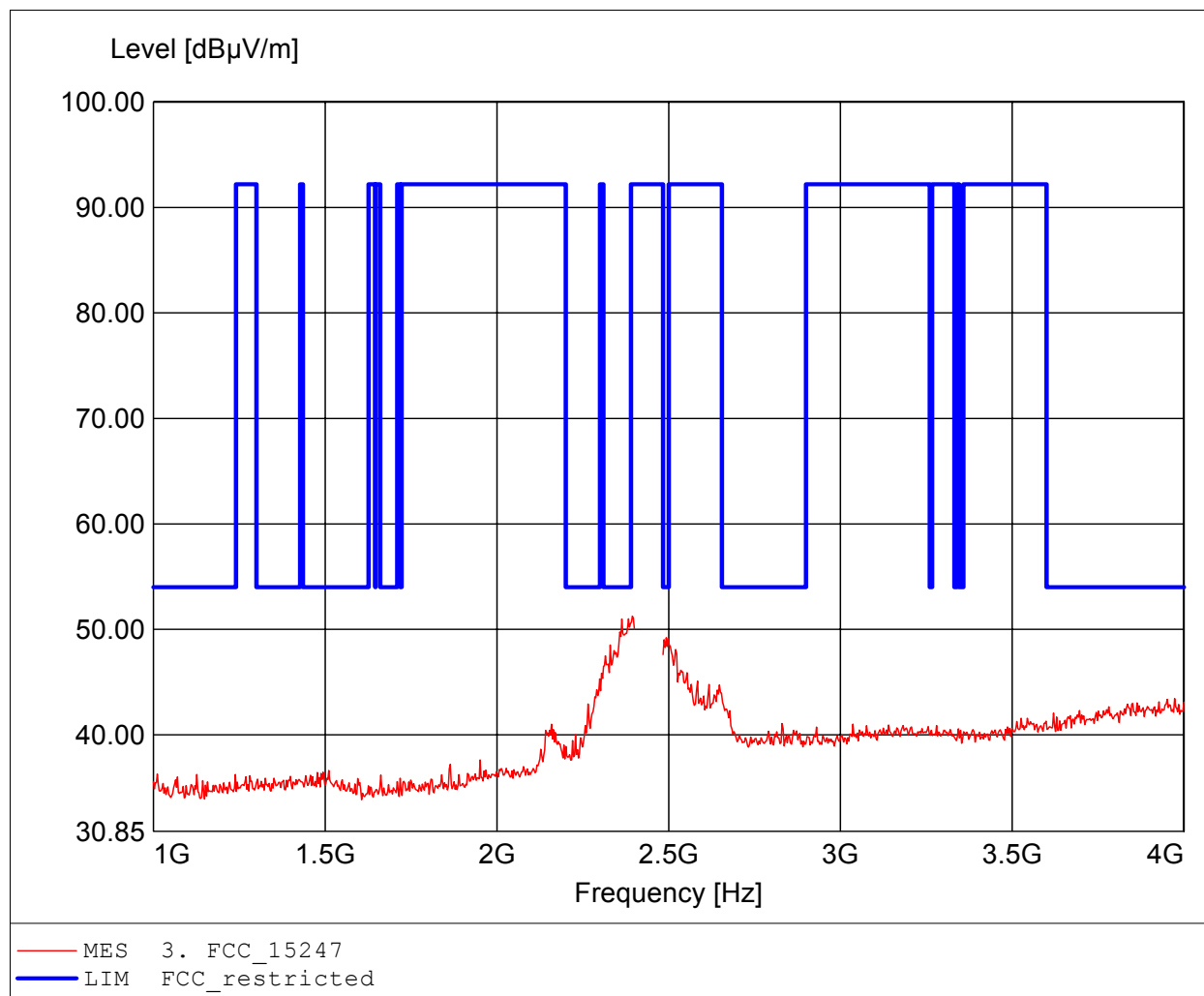
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 24.596GHz, Emax: 50.22dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

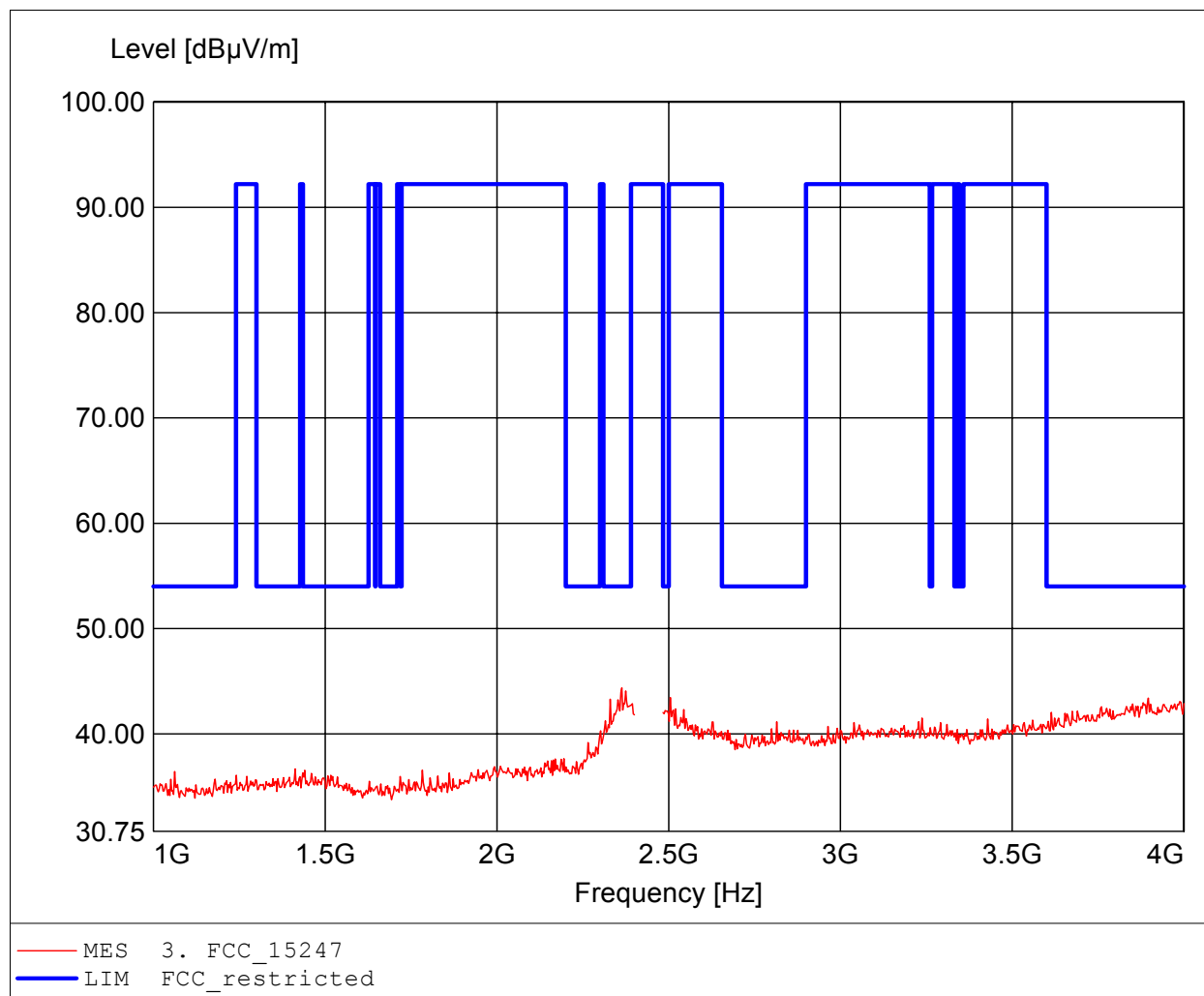
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.394GHz, Emax: 51.26dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

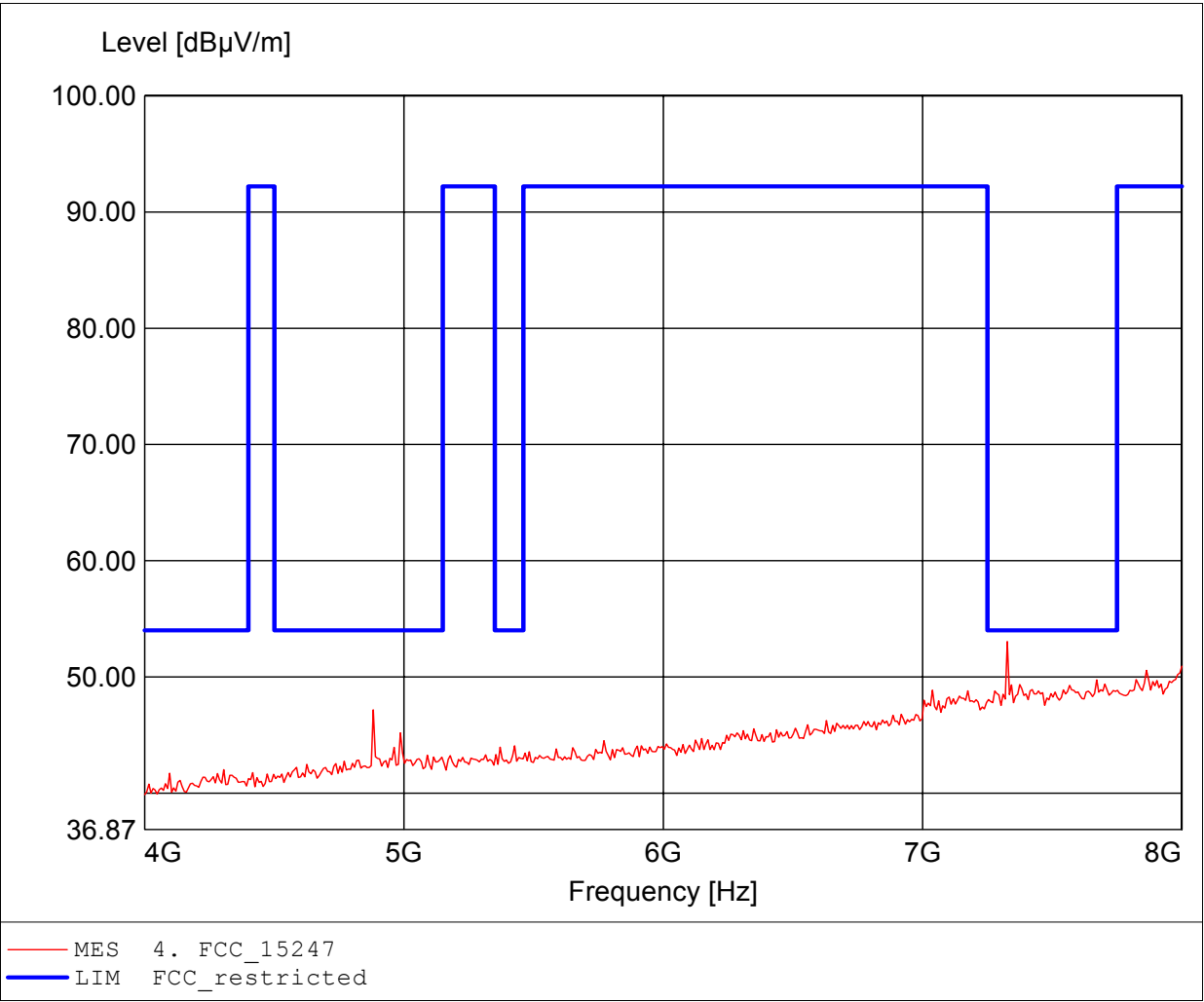
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.364GHz, Emax: 44.38dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

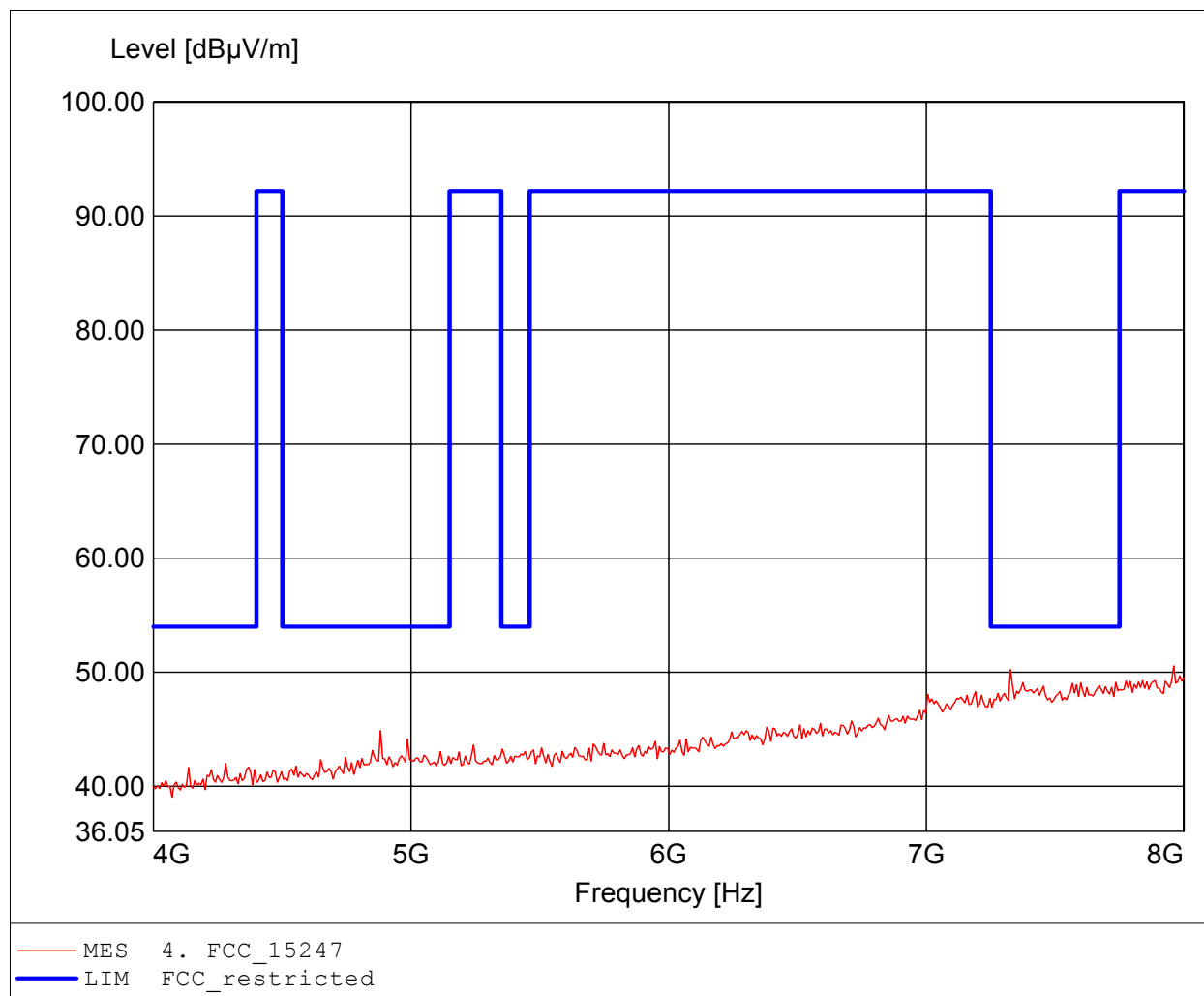
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.327GHz, Emax: 53.04dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

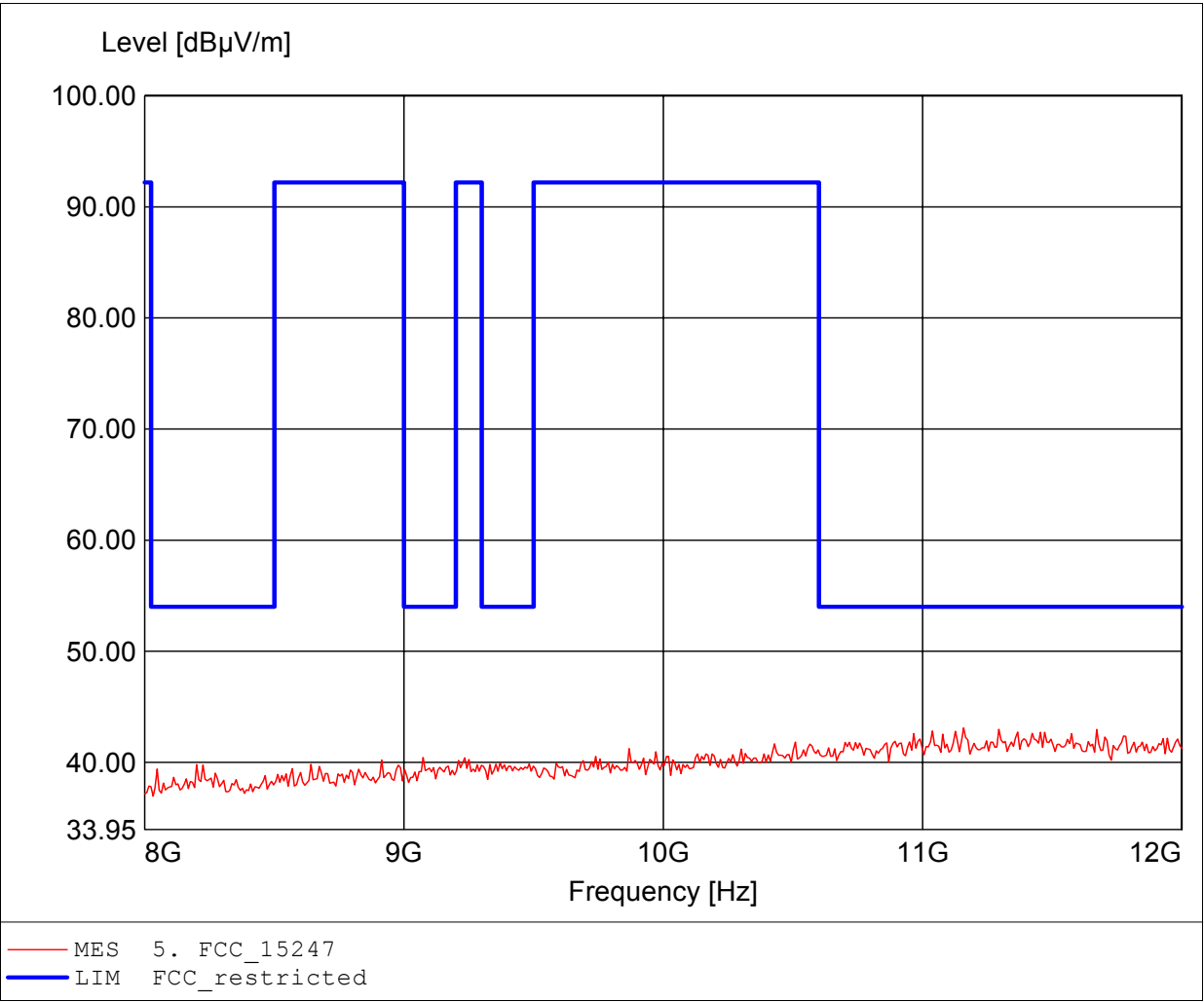
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.960GHz, Emax: 50.57dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

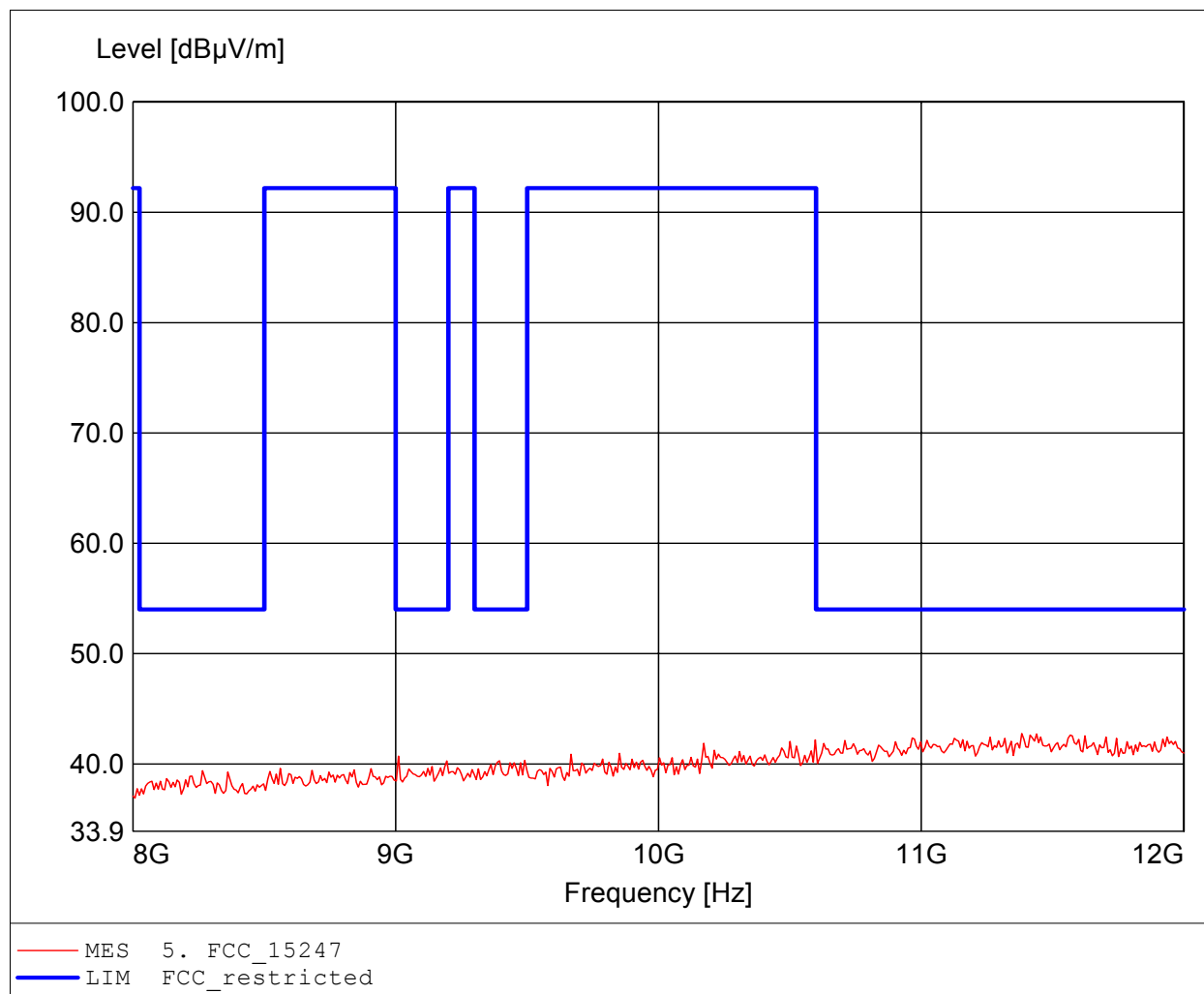
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.158GHz, Emax: 43.10dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

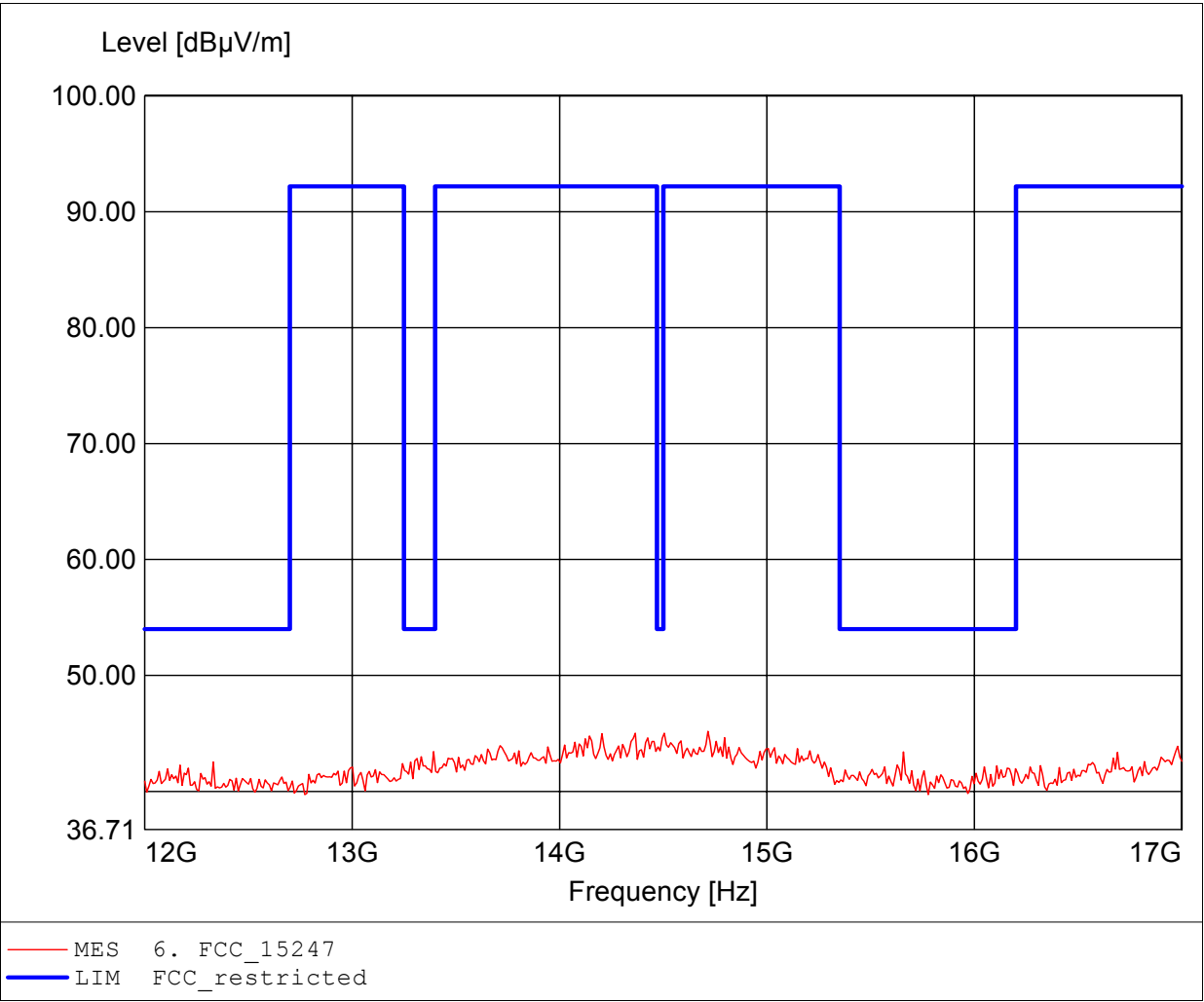
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.383GHz, Emax: 42.76dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

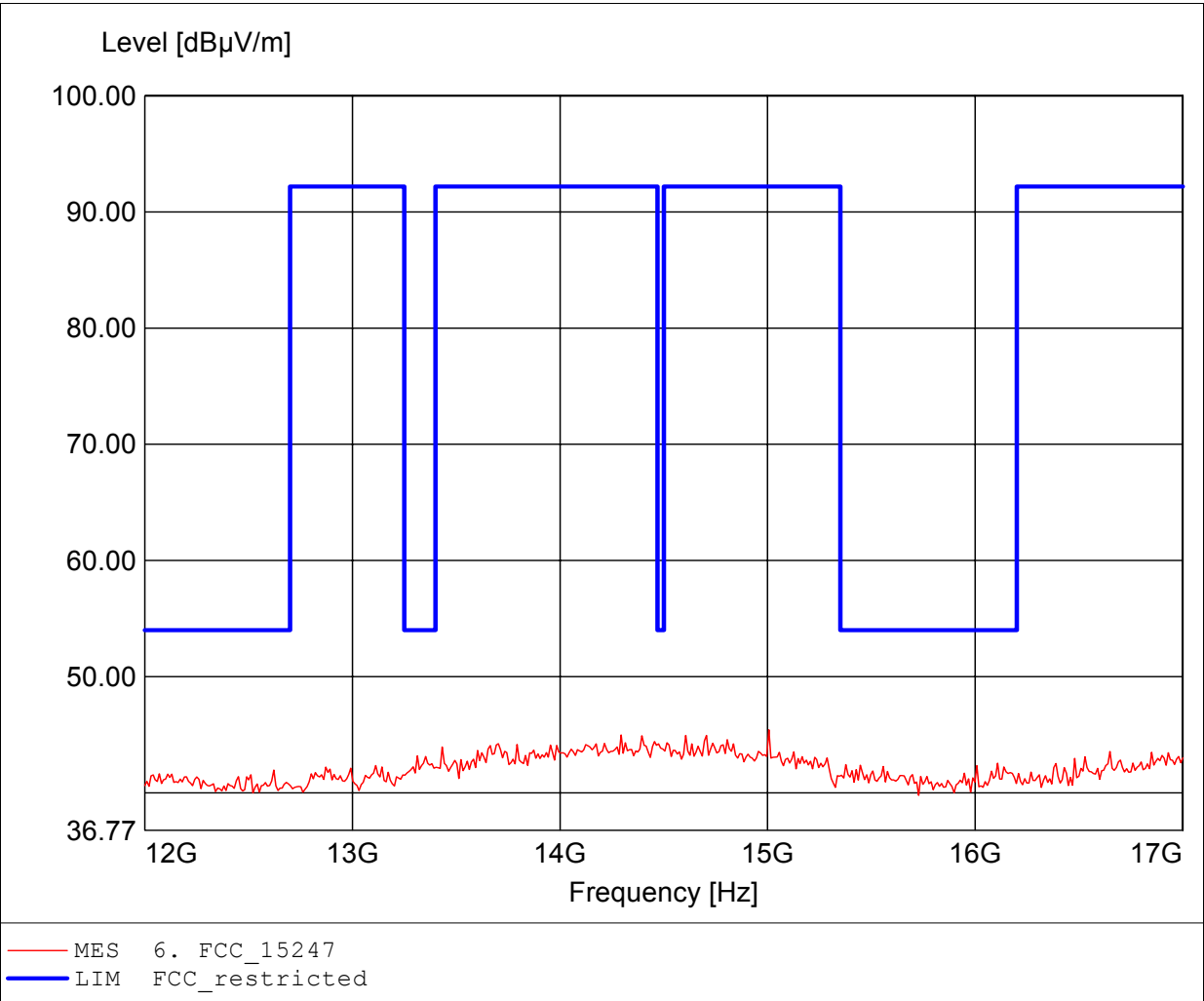
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.715GHz, Emax: 45.18dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

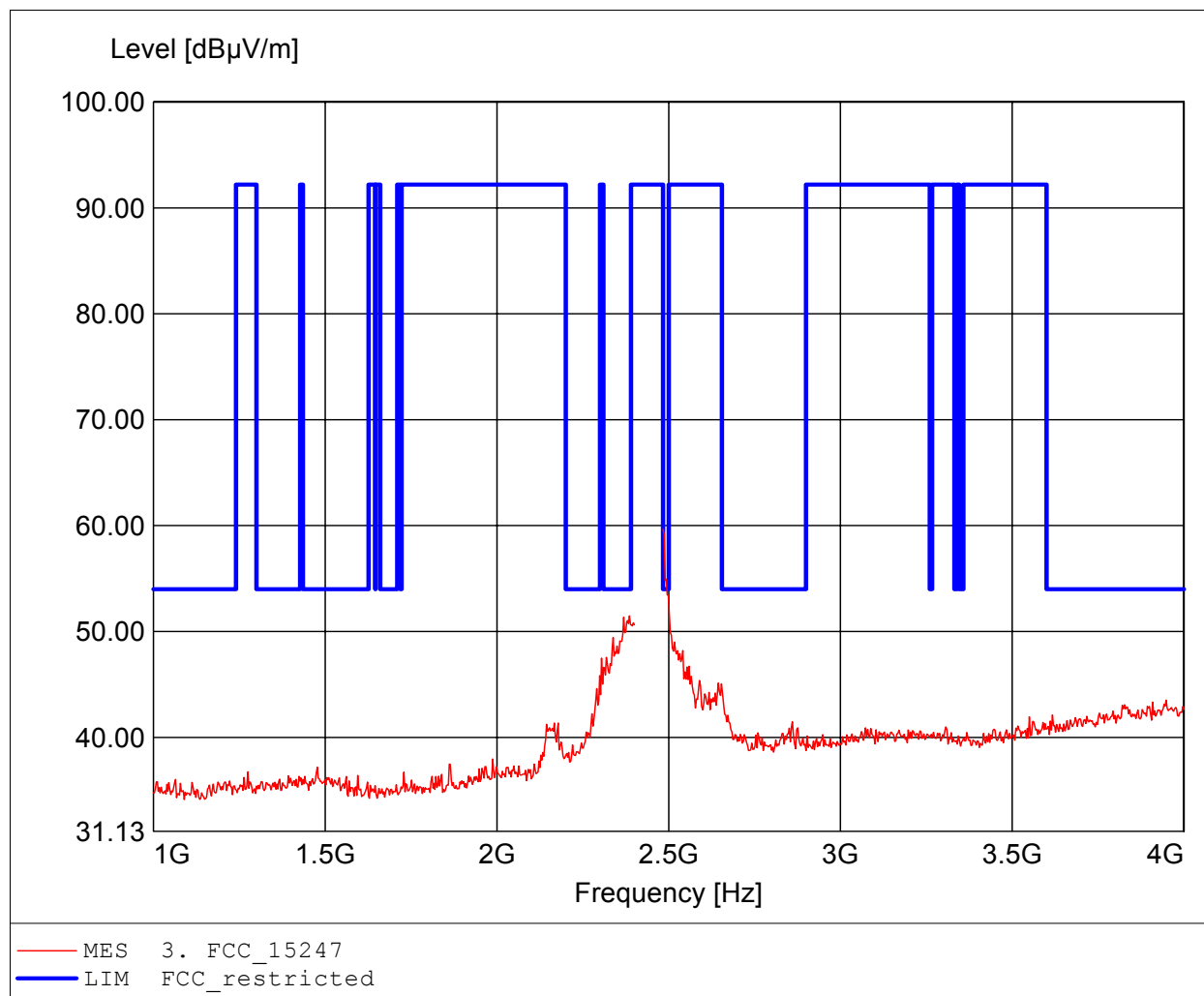
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 15.006GHz, Emax: 45.42dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

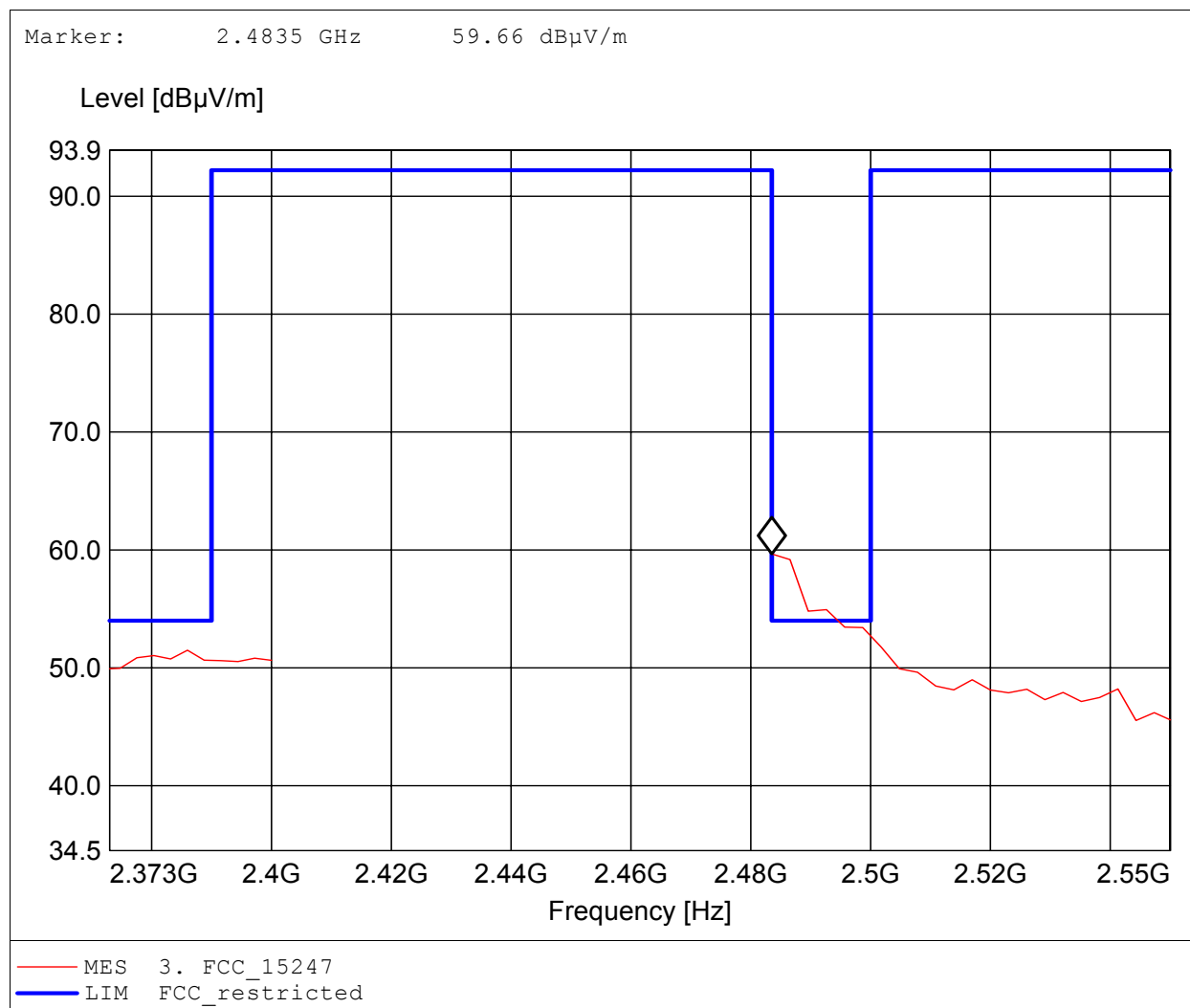
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.484GHz, Emax: 59.66dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

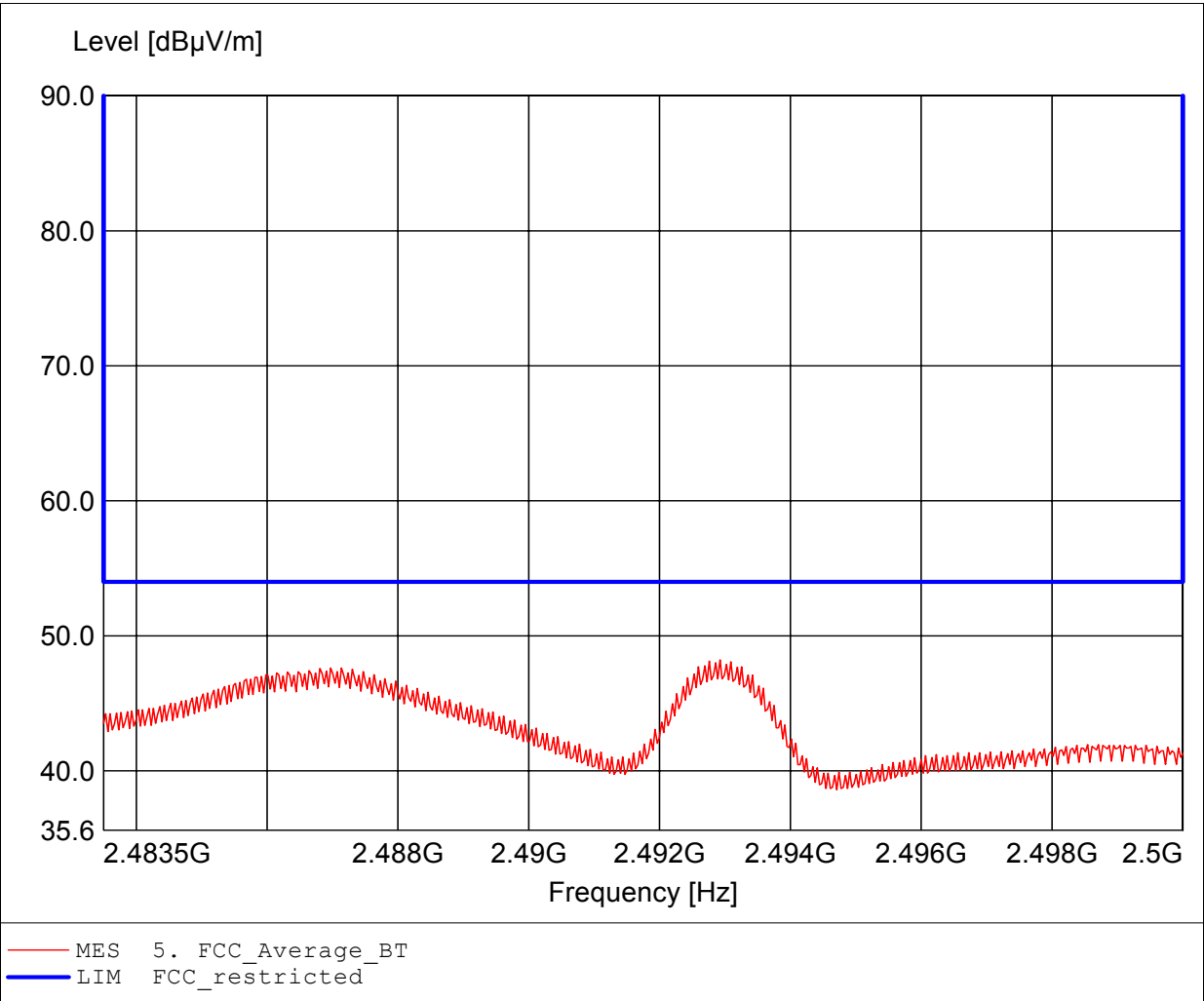
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.484GHz, Emax: 59.66dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

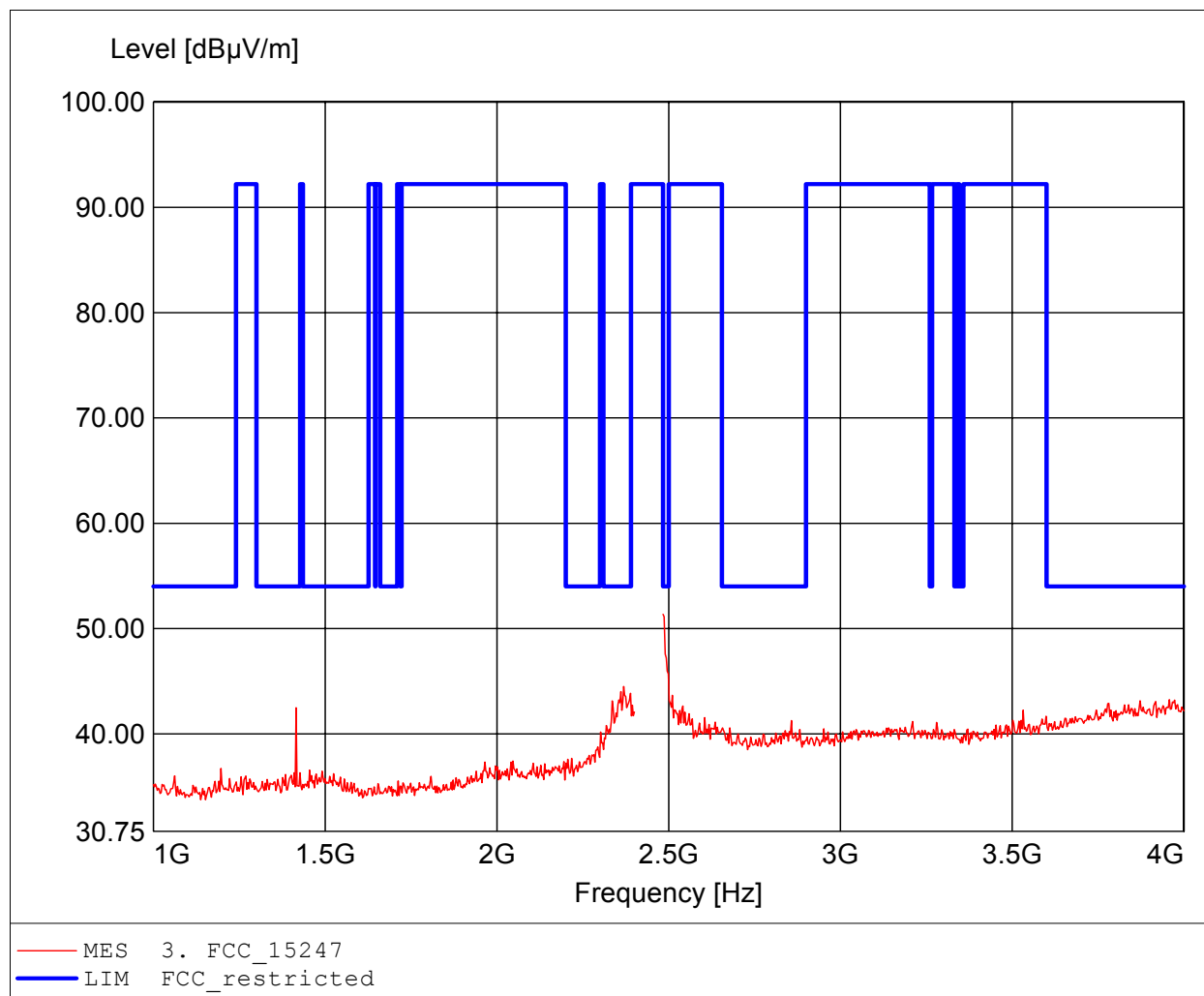
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 2.493GHz, Emax: 48.23dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

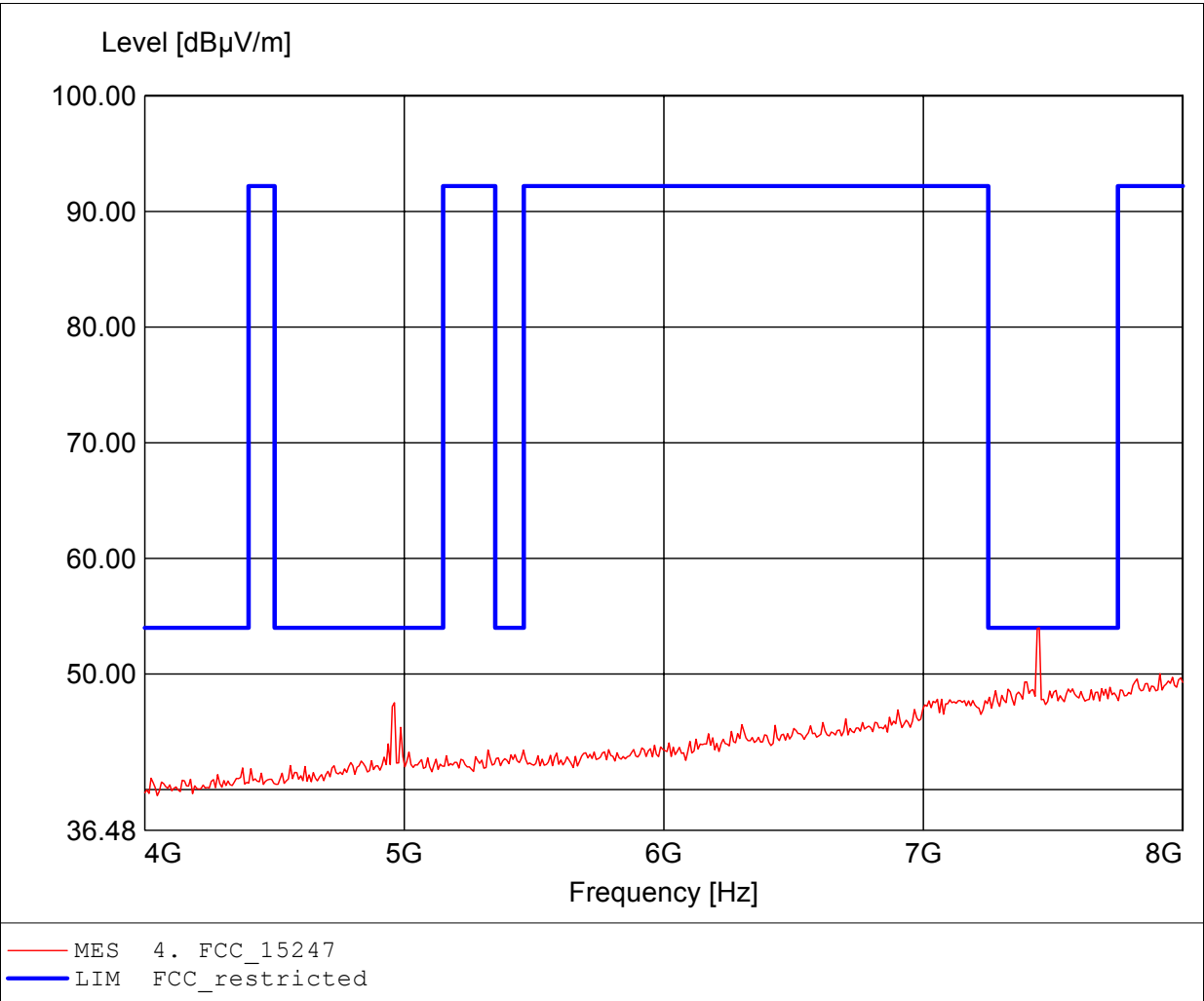
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.484GHz, Emax: 51.37dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

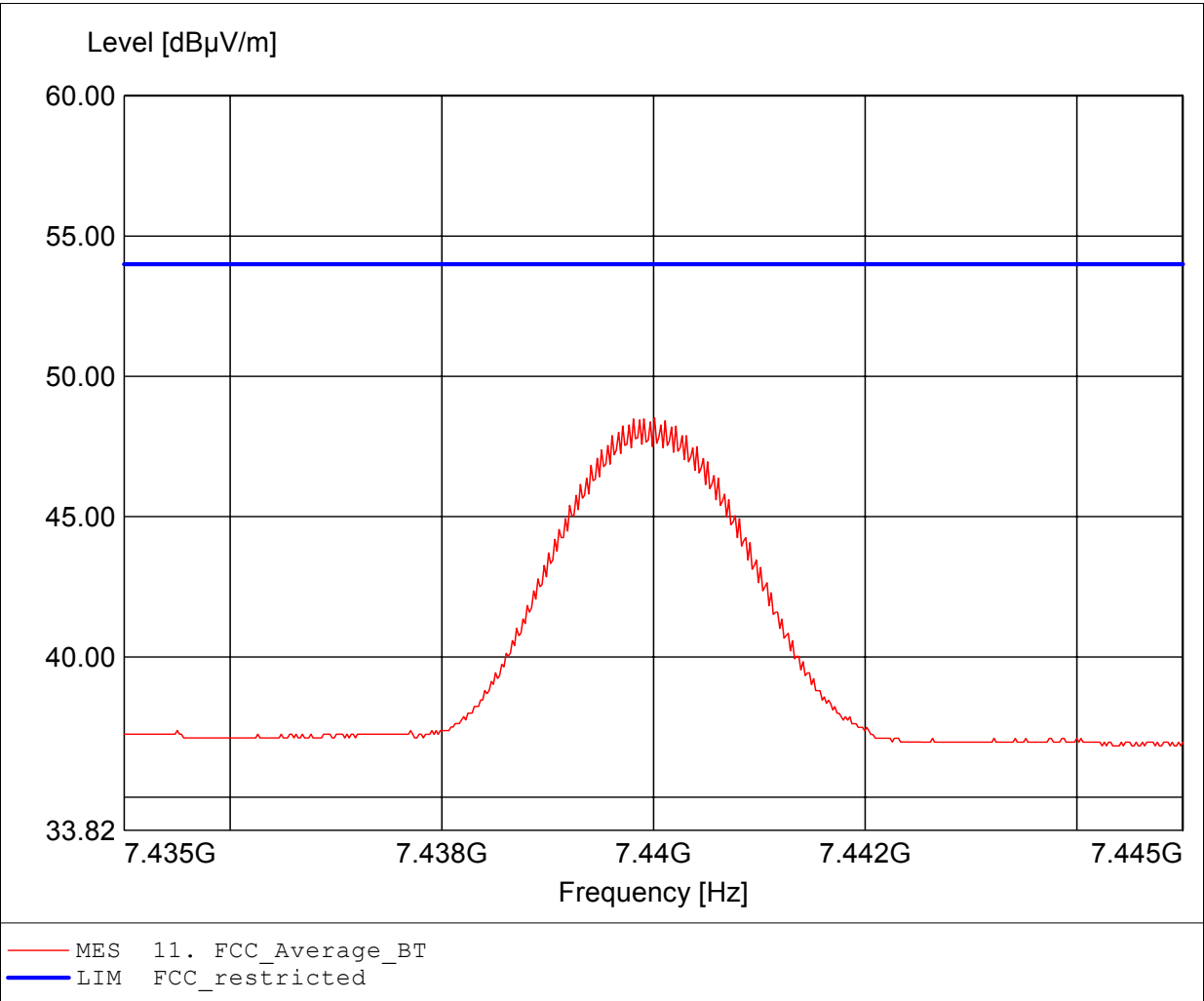
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.447GHz, Emax: 54.00dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

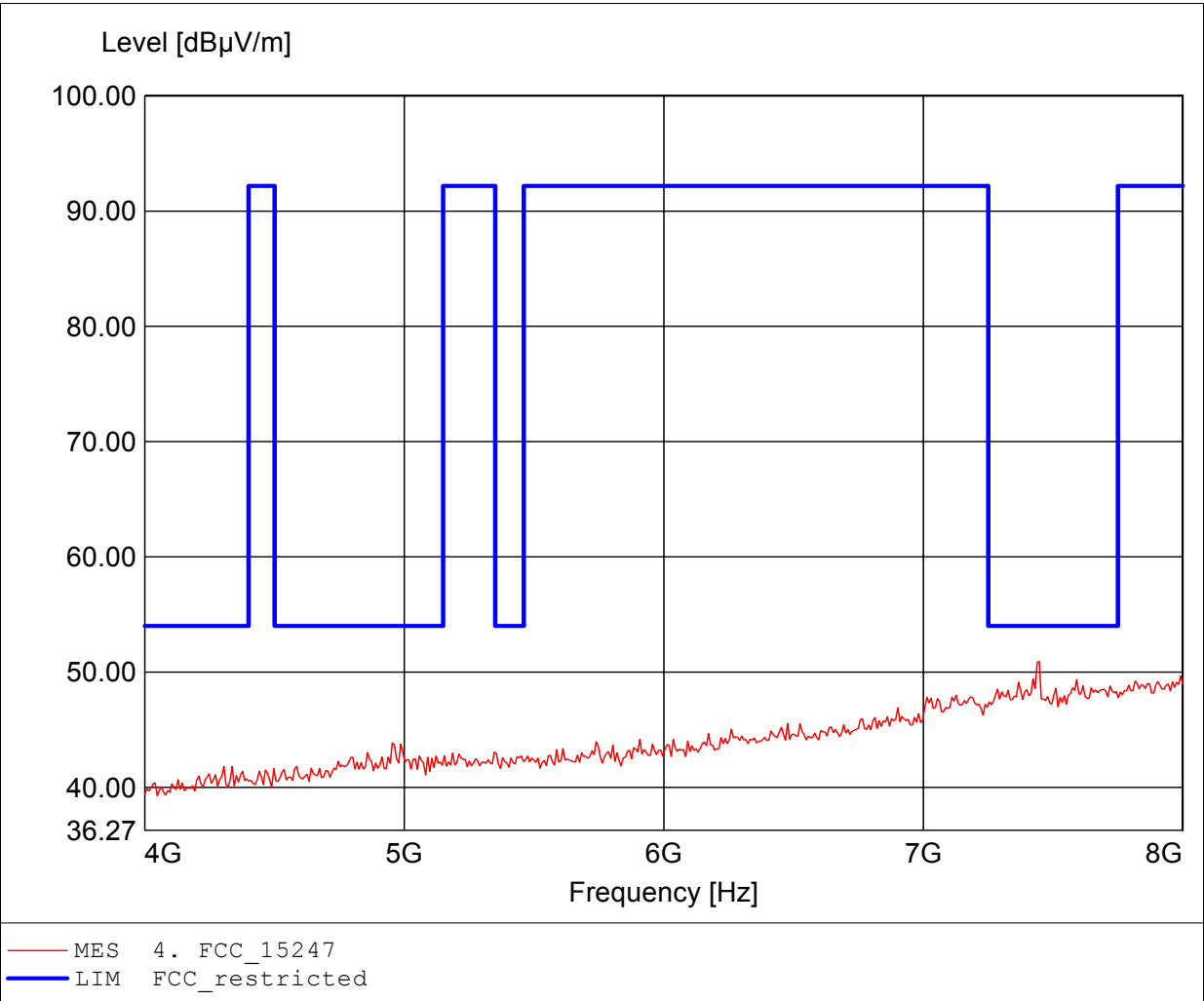
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 7.440GHz, Pmax: 48.52dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

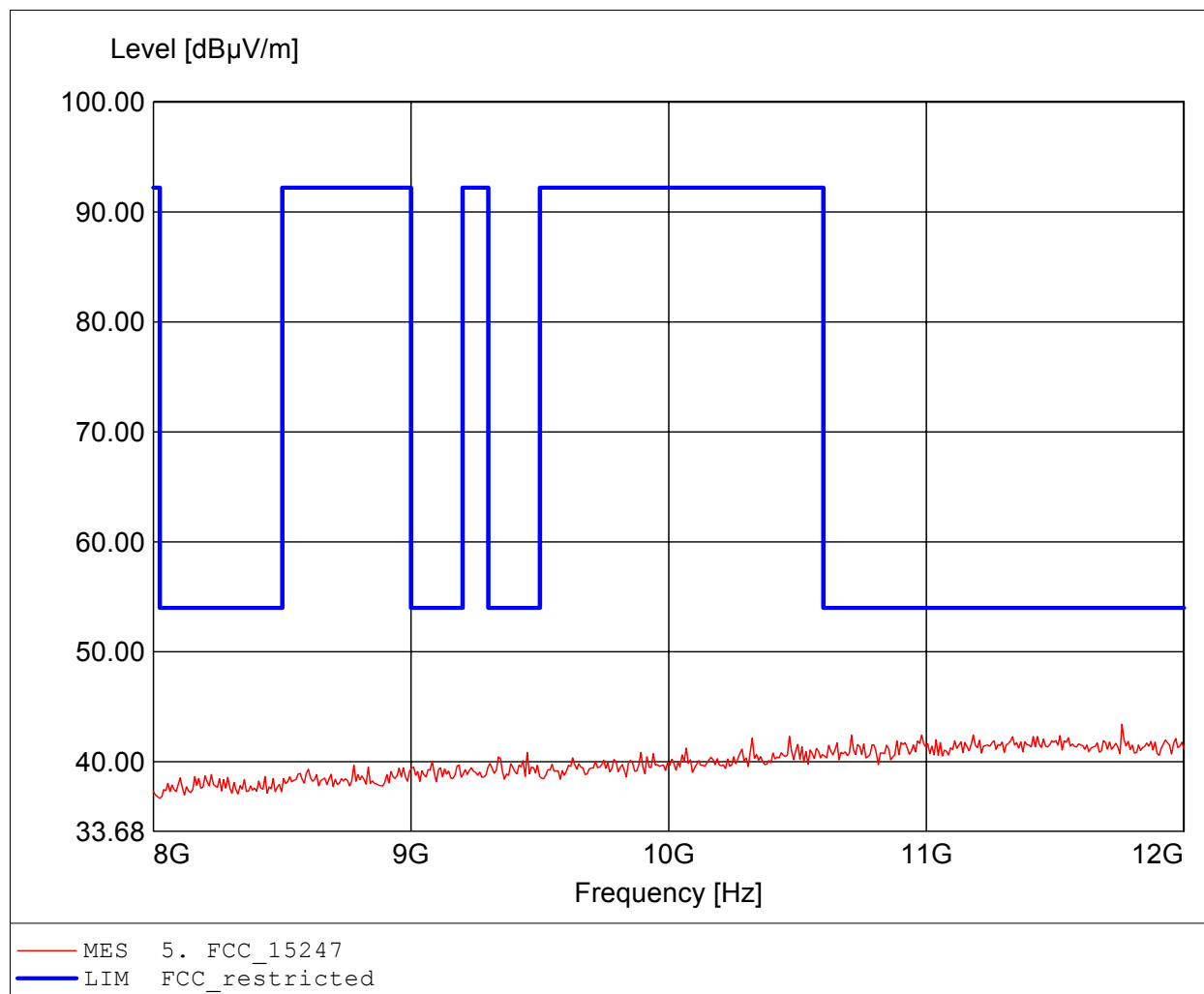
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.447GHz, Emax: 50.91dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

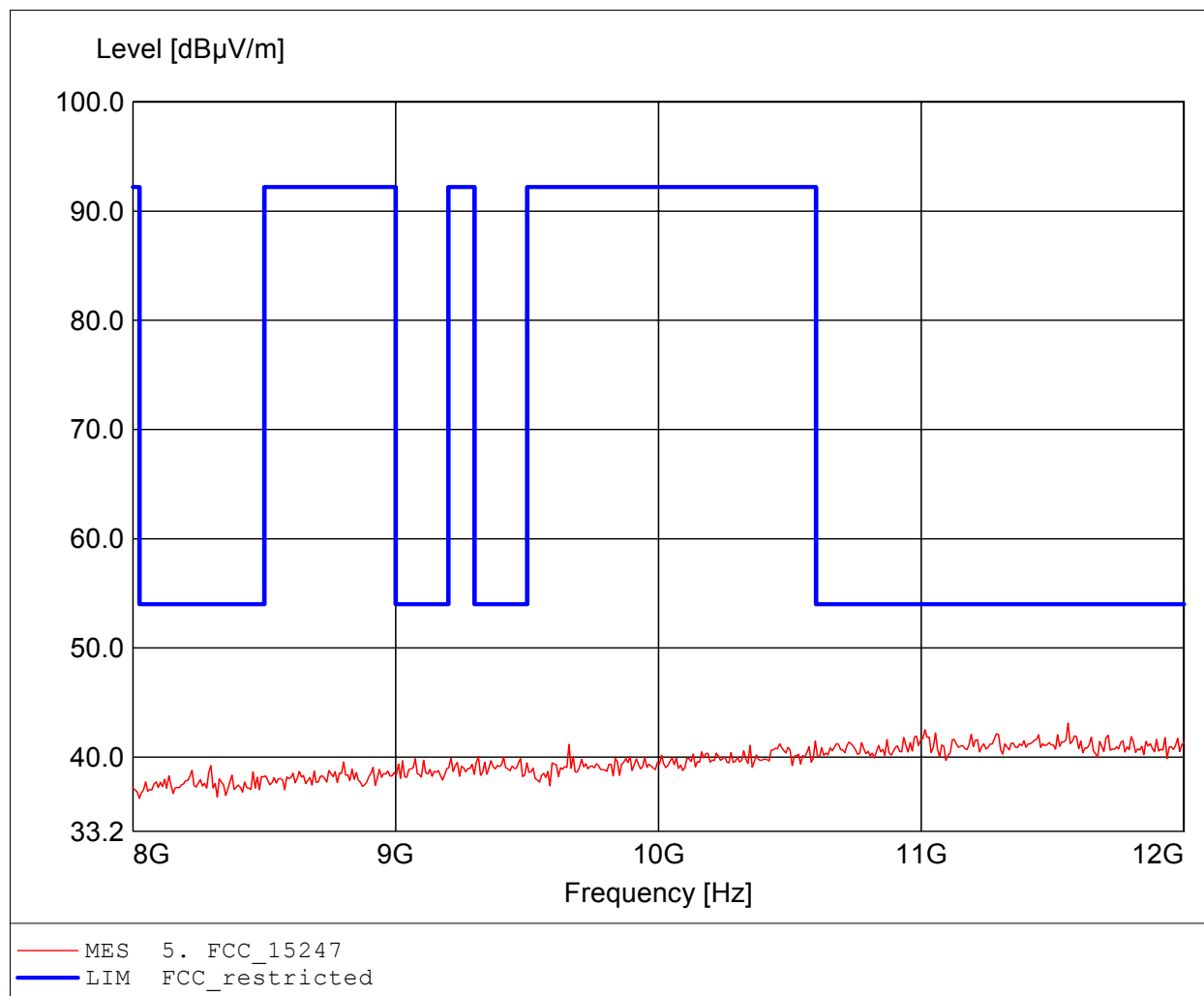
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.760GHz, Emax: 43.40dBuV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

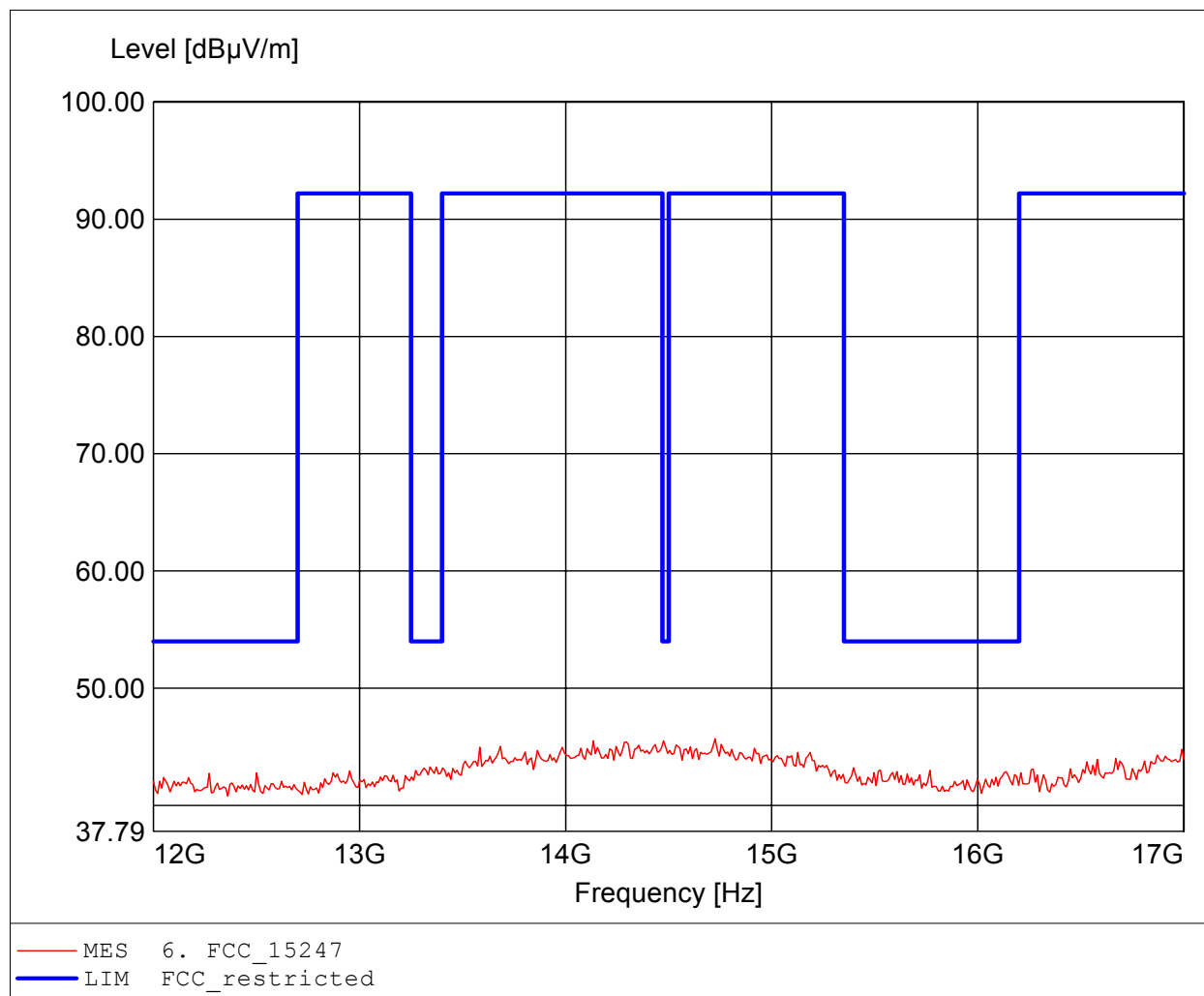
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.559GHz, Emax: 43.10dBuV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

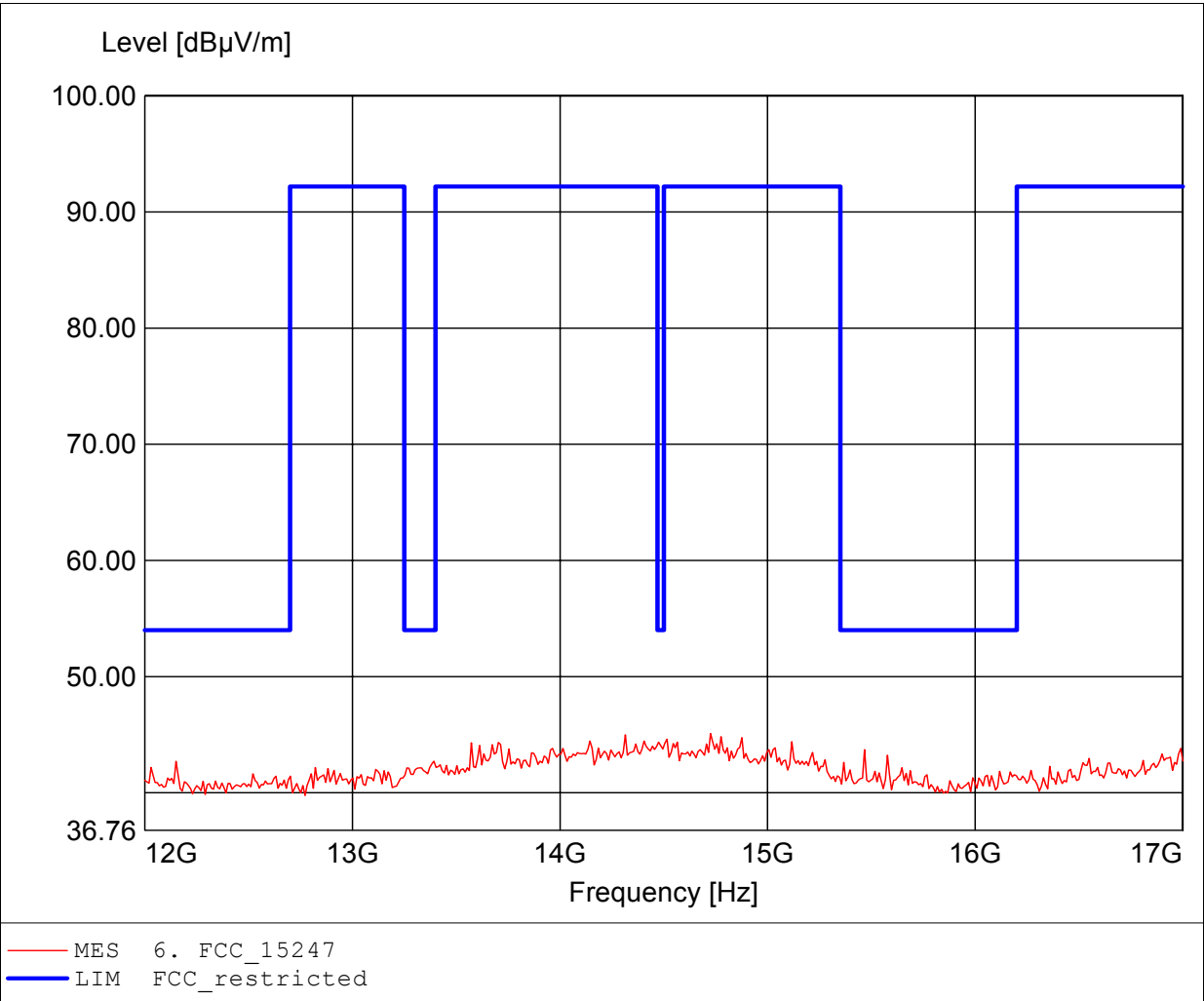
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.725GHz, Emax: 45.68dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

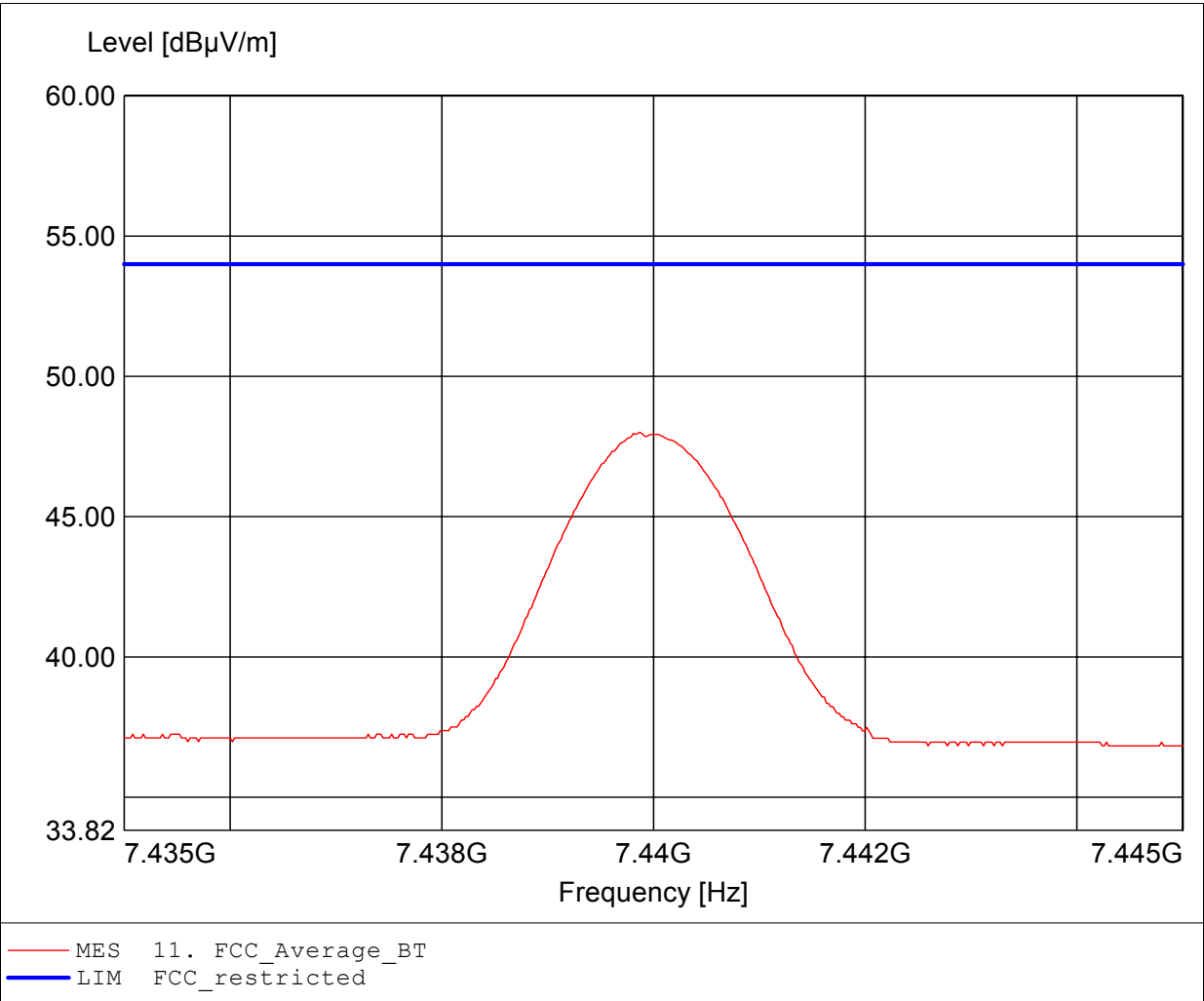
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.725GHz, Emax: 45.08dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

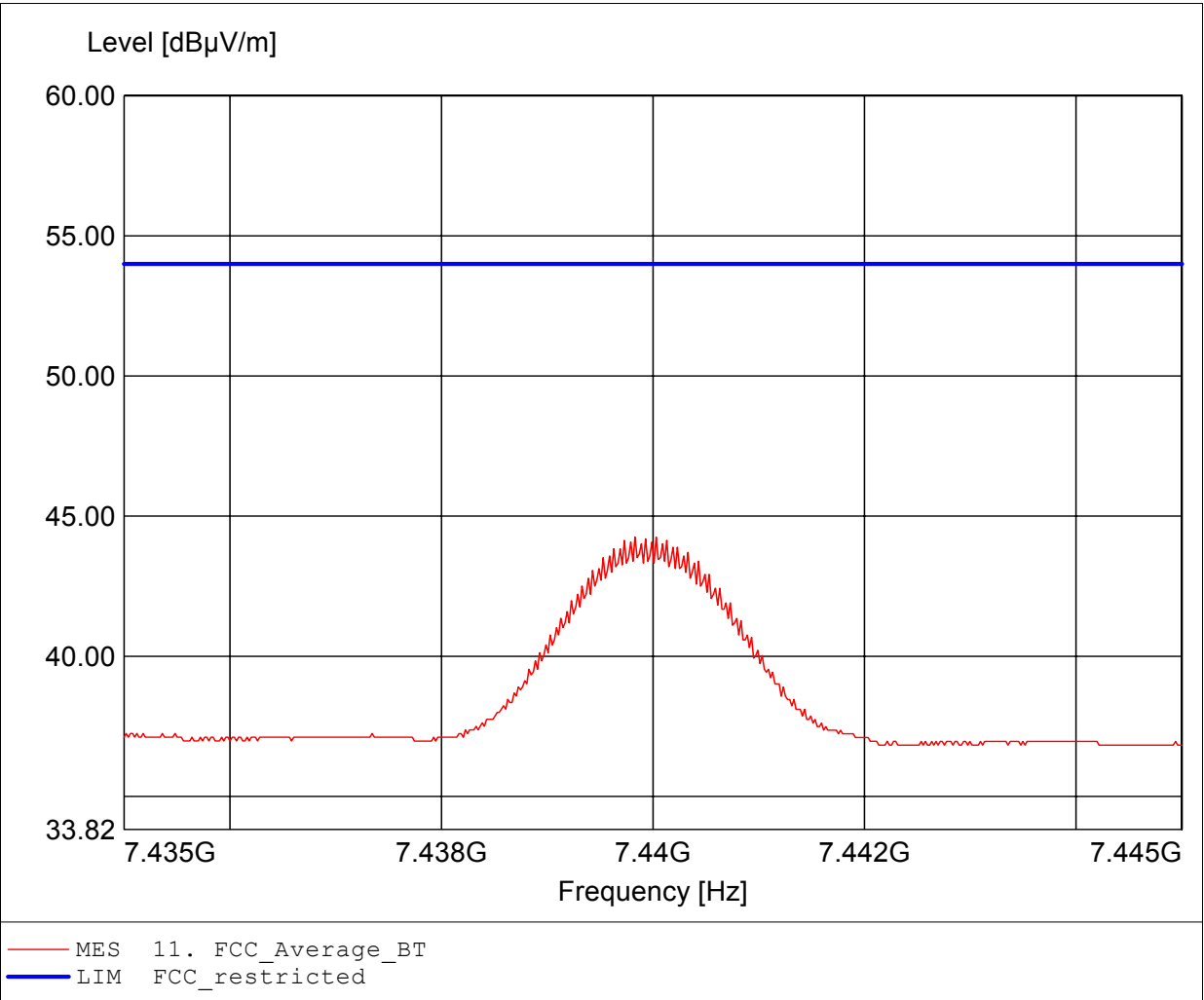
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2480 MHz / EUT-ant. hor.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 7.440GHz, Pmax: 48.01dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

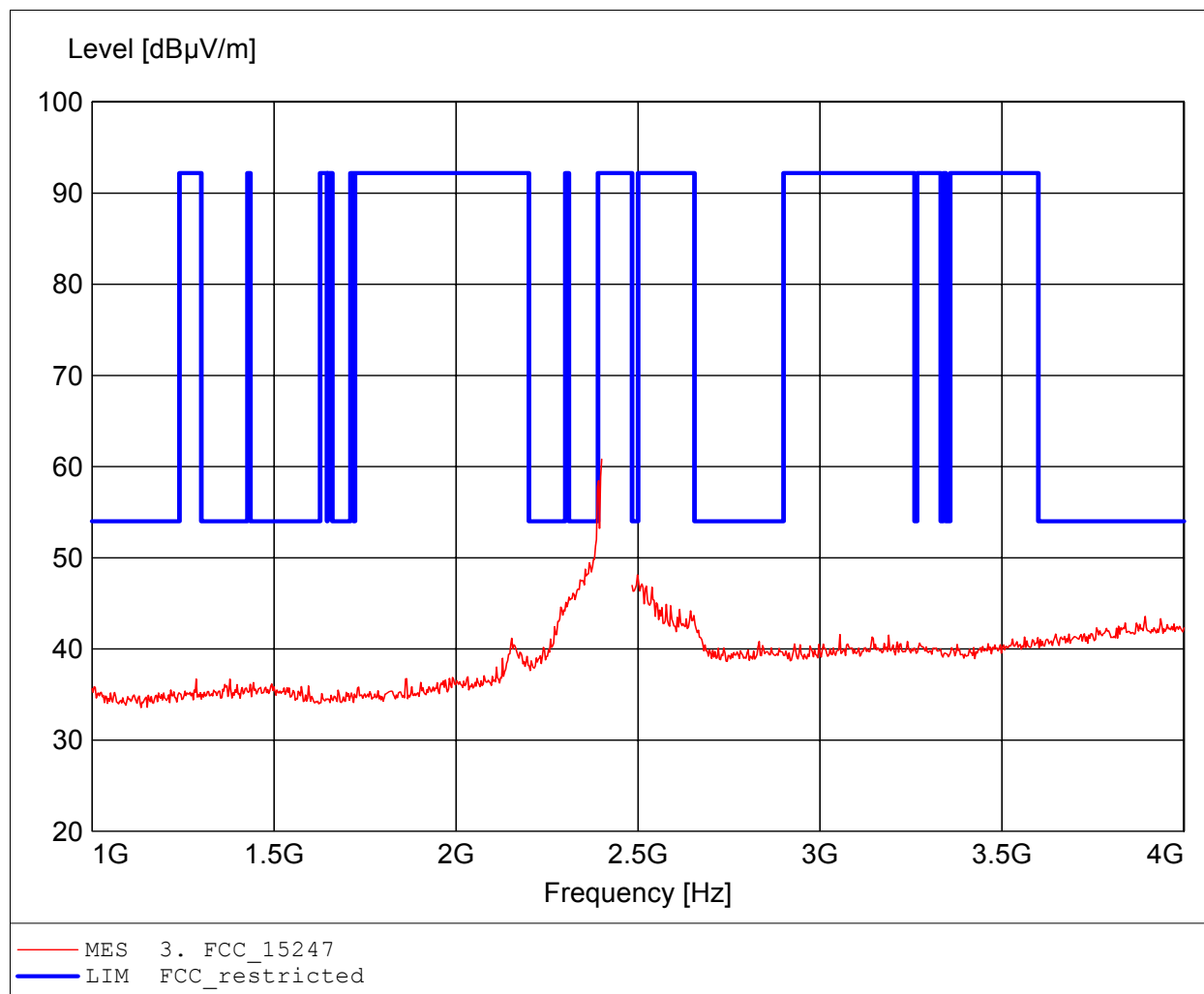
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx BR EUT hor / 2480 MHz / EUT-ant. hor.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 7.440GHz, Pmax: 44.25dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

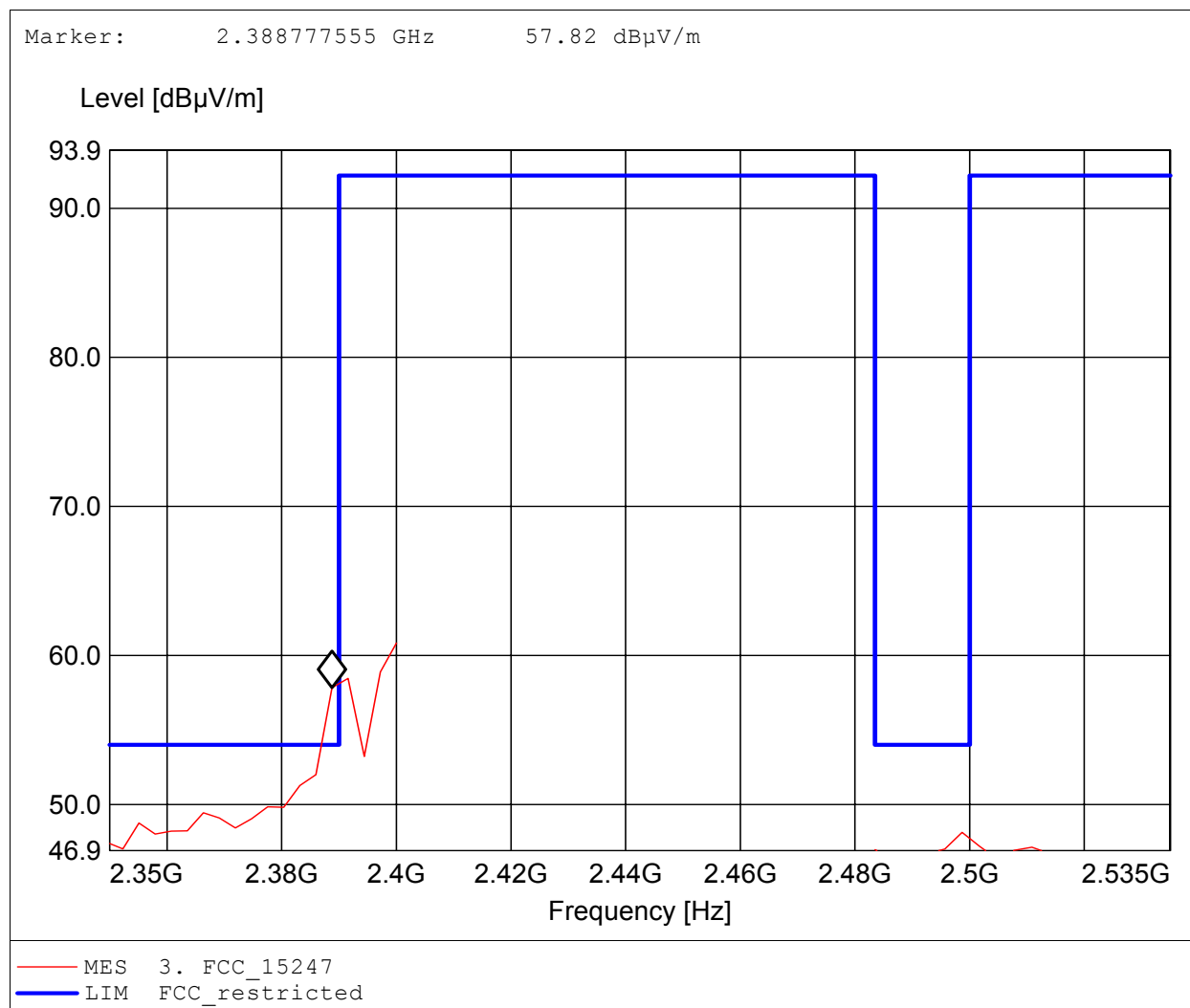
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 60.82dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

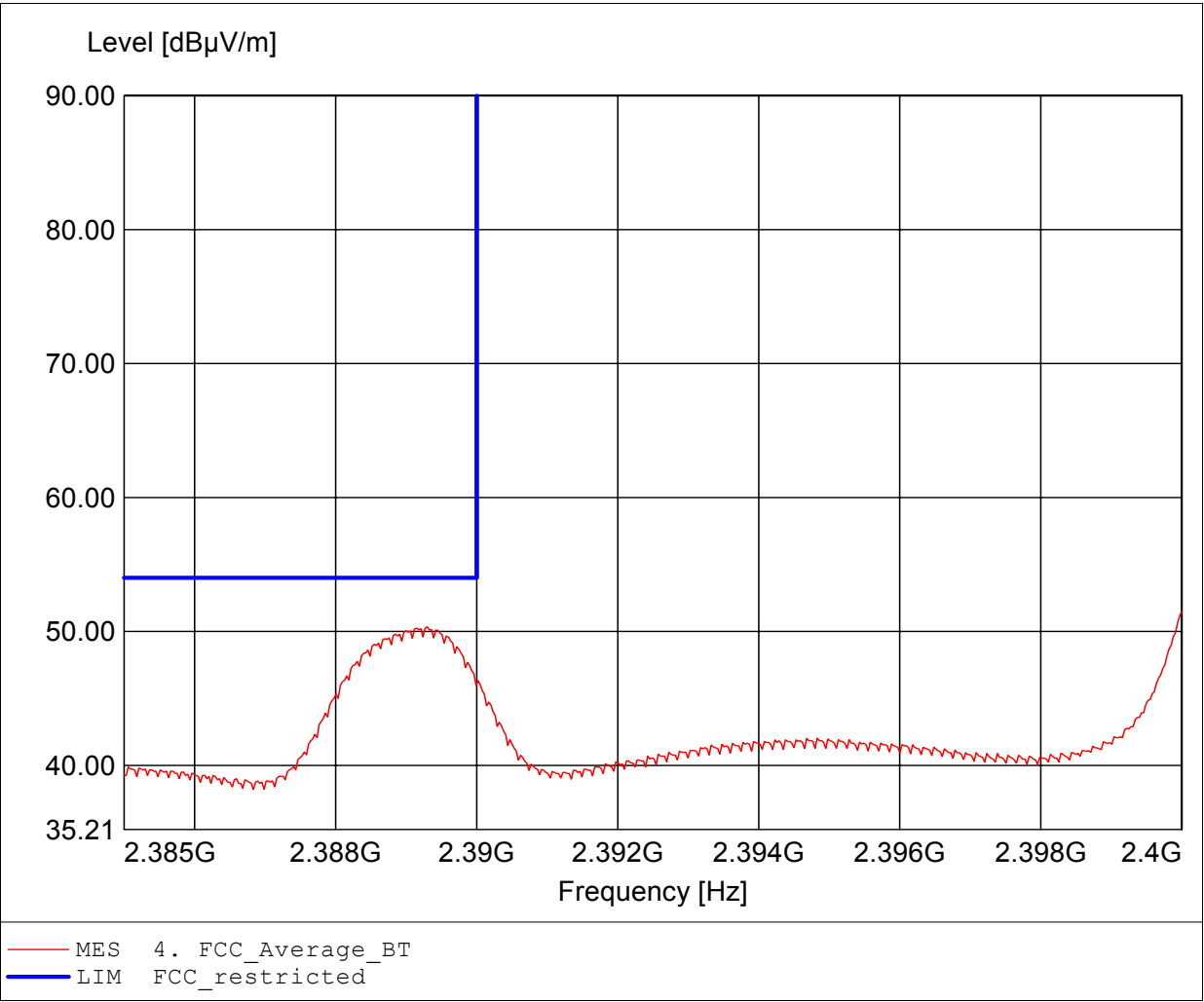
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 60.82dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

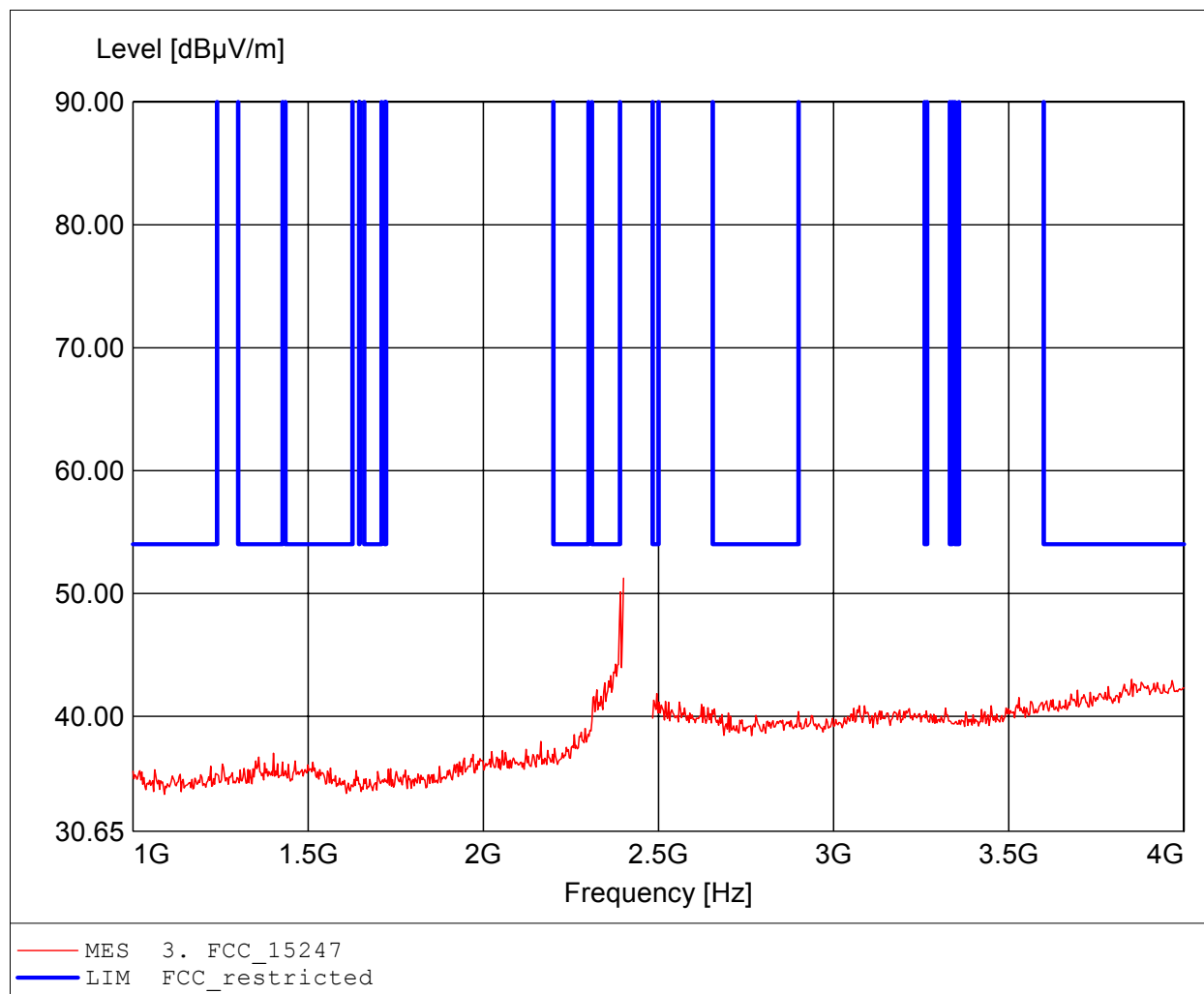
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 2.400GHz, Emax: 51.52dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

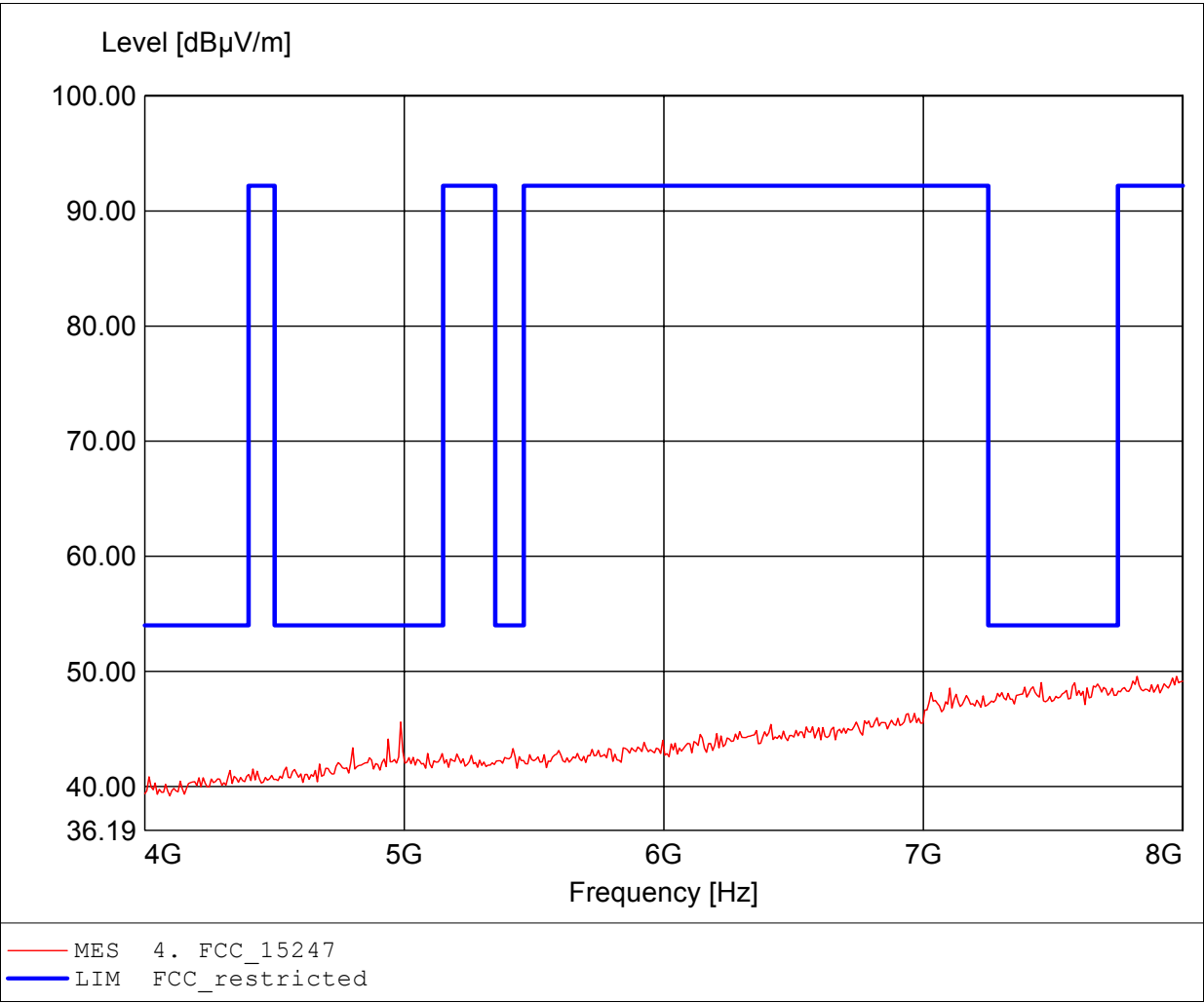
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 51.24dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

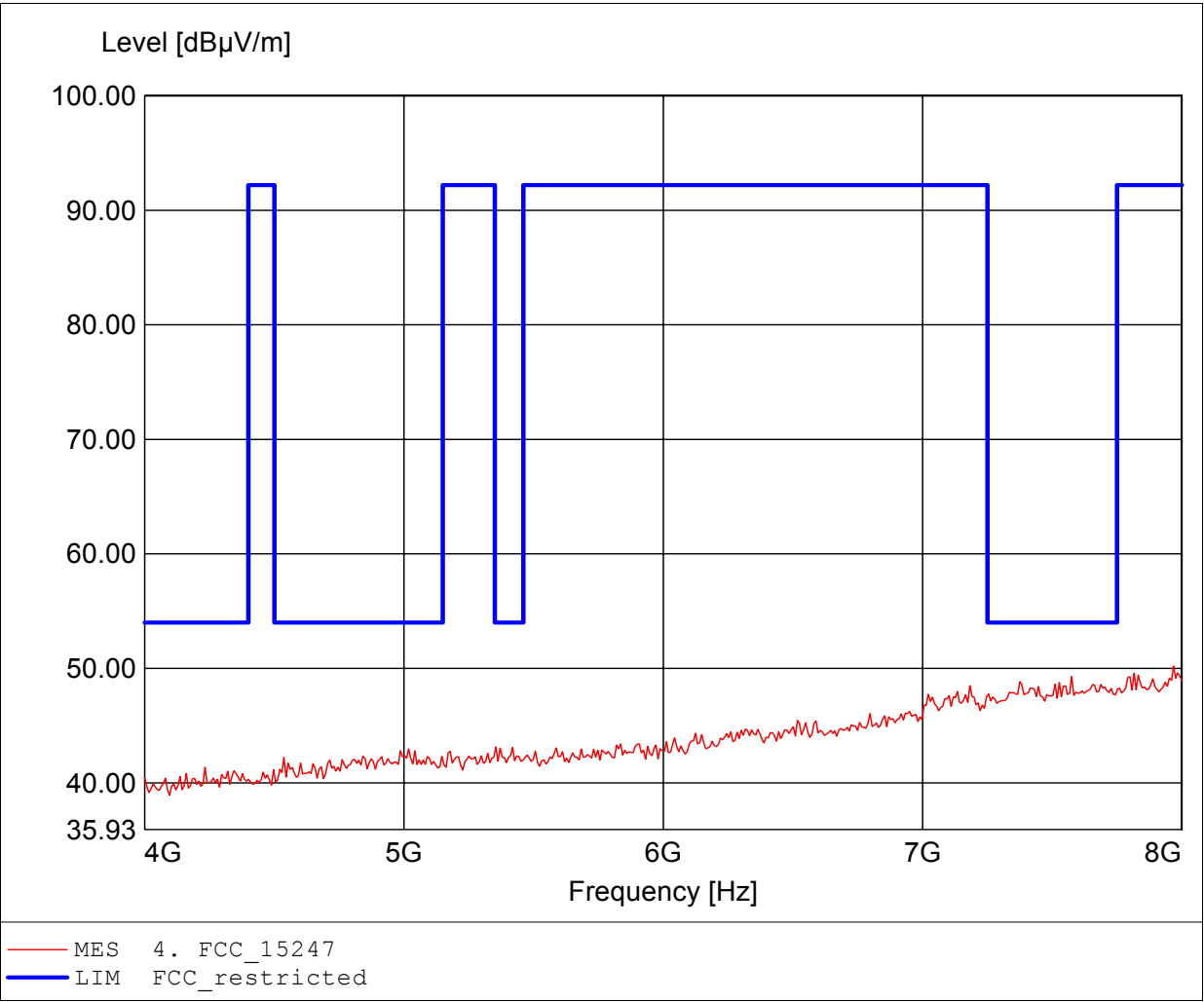
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.976GHz, Emax: 49.57dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

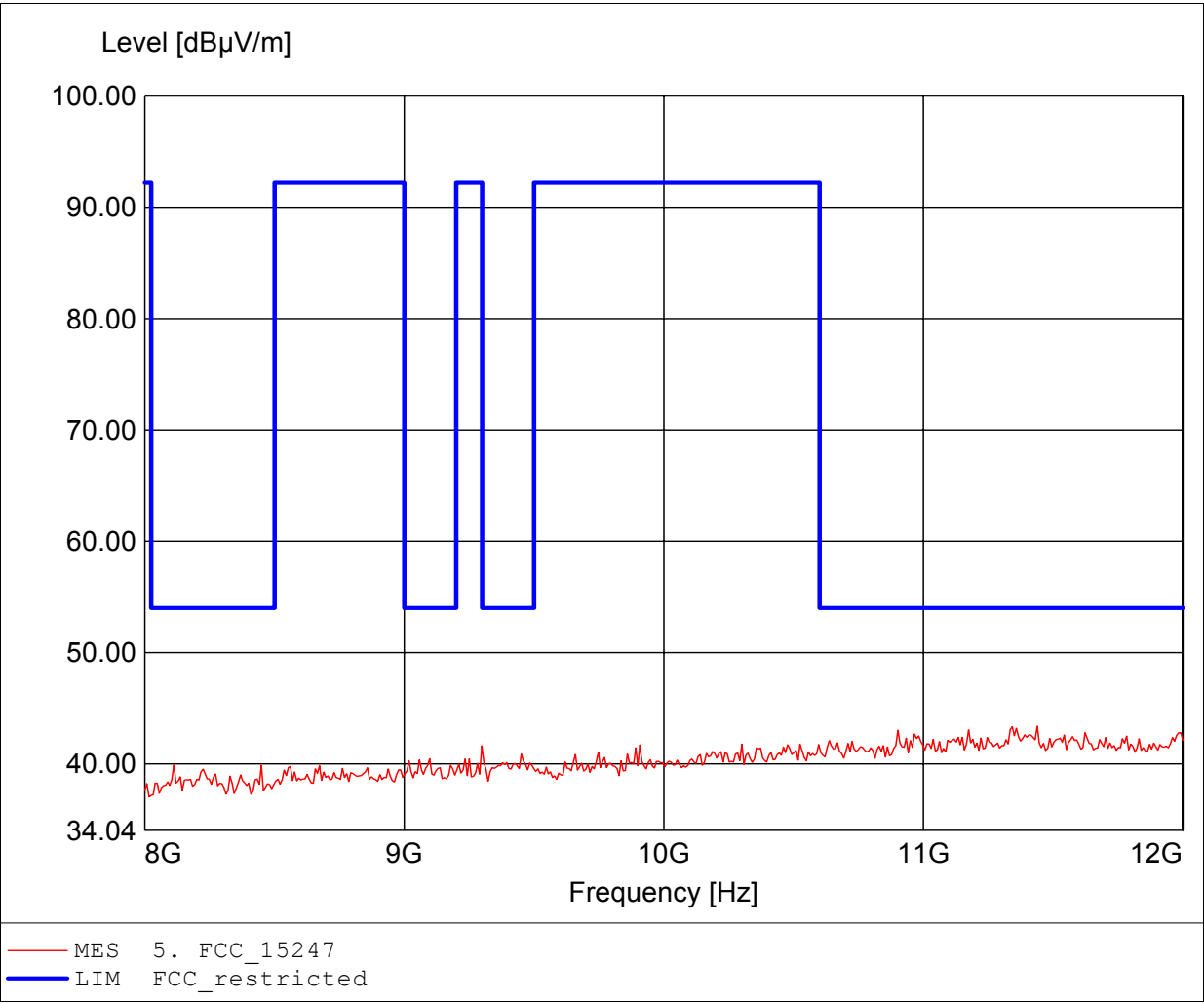
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.968GHz, Emax: 50.21dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

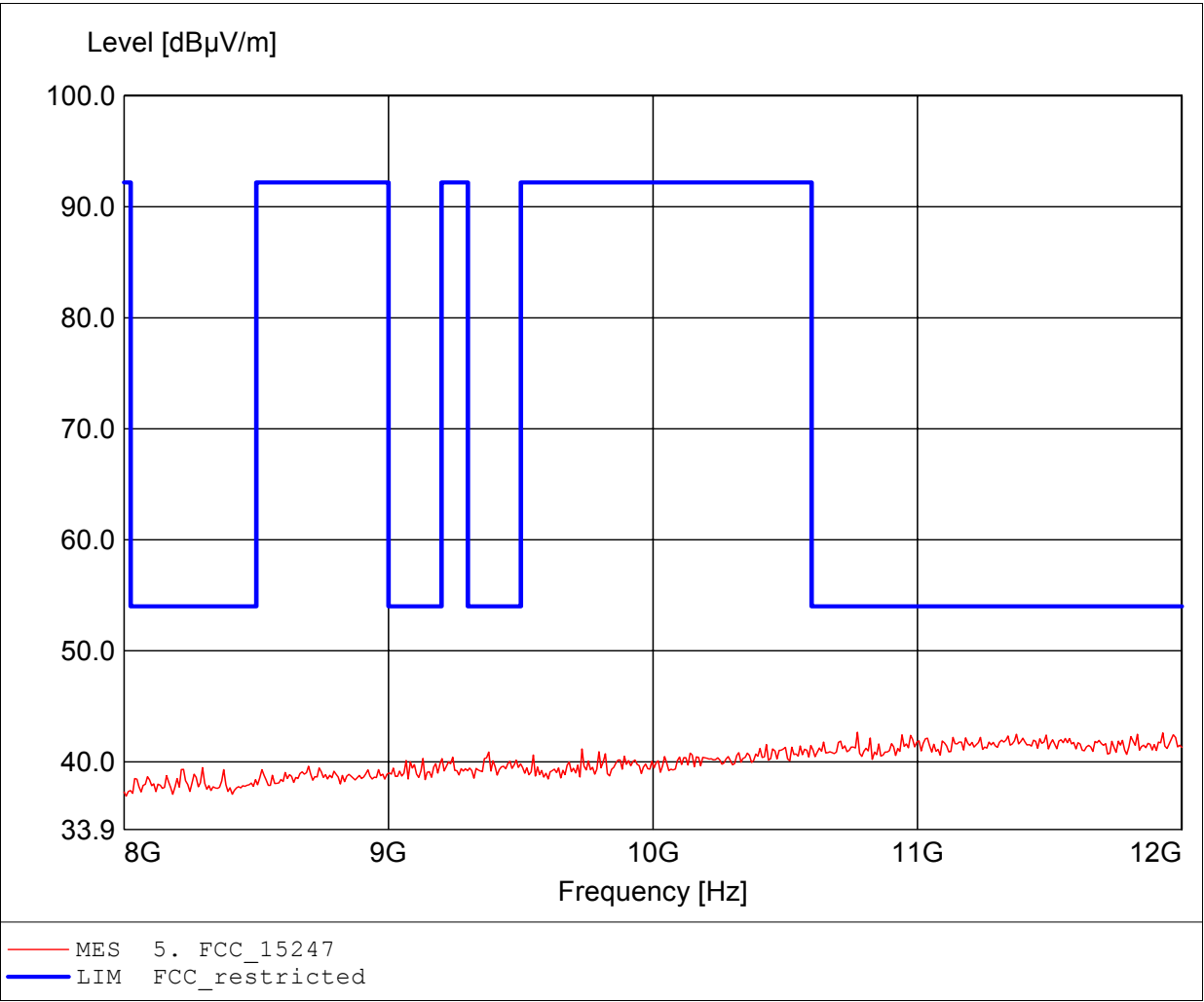
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.439GHz, Emax: 43.39dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

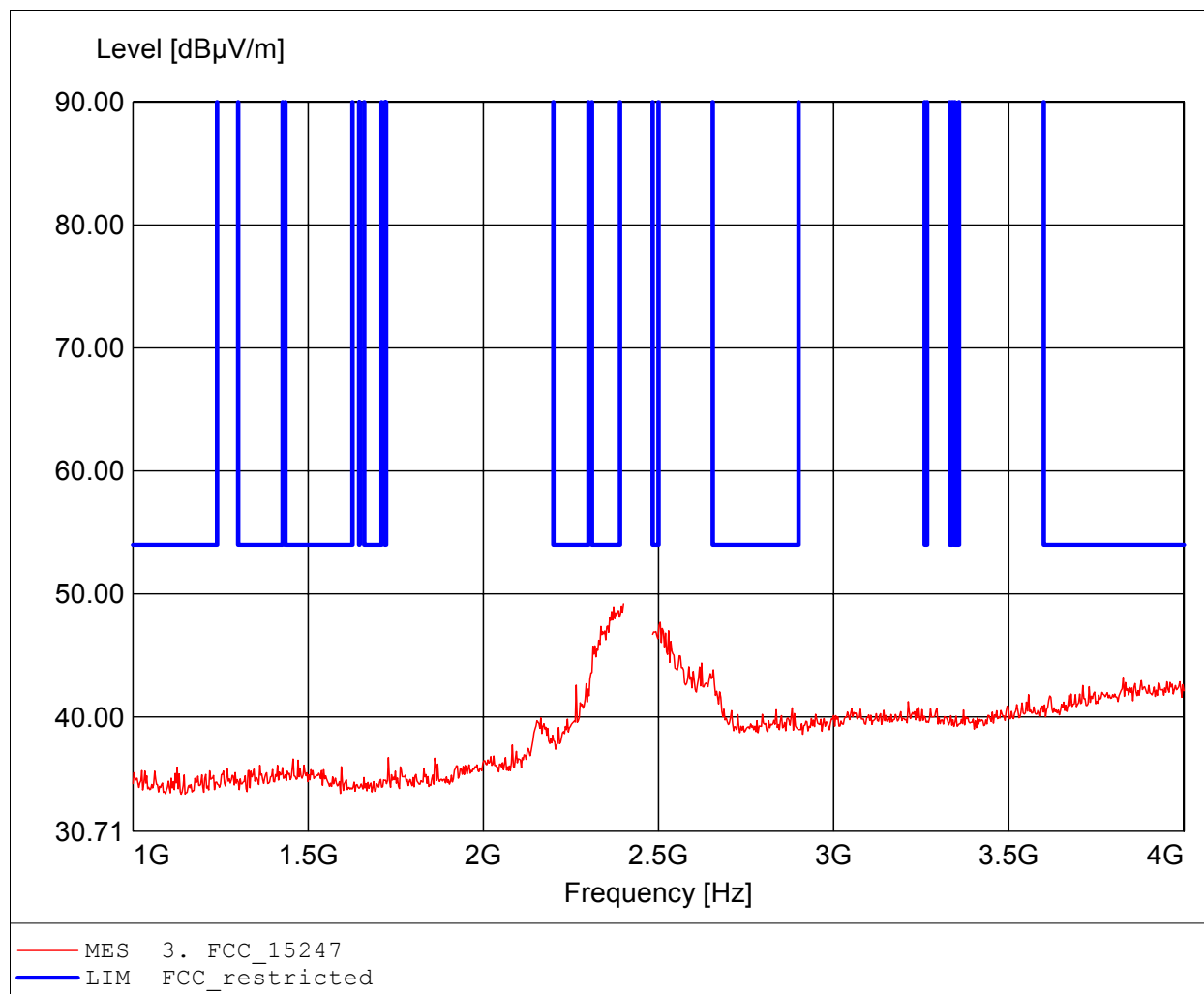
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 10.774GHz, Emax: 42.66dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

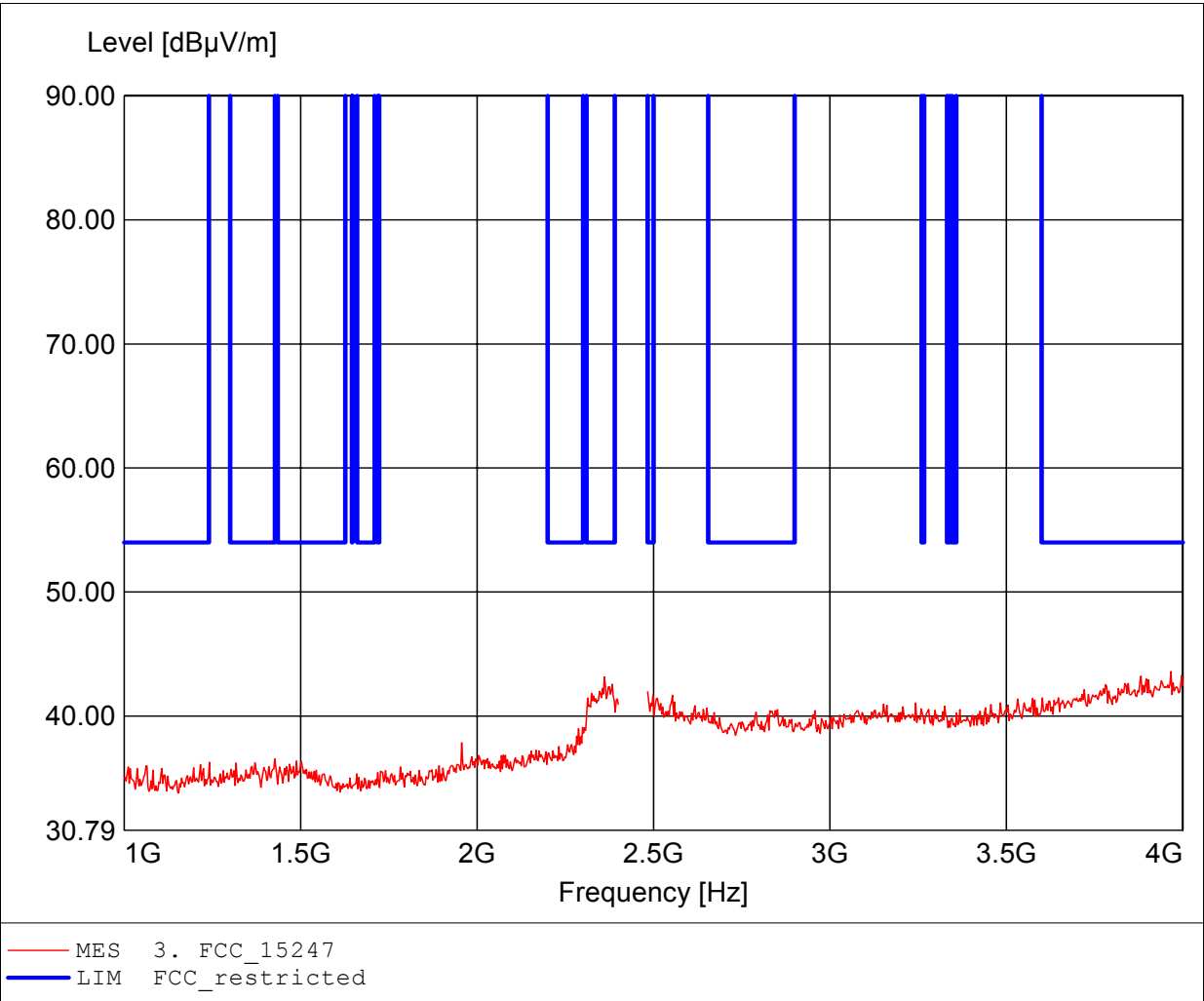
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 49.19dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

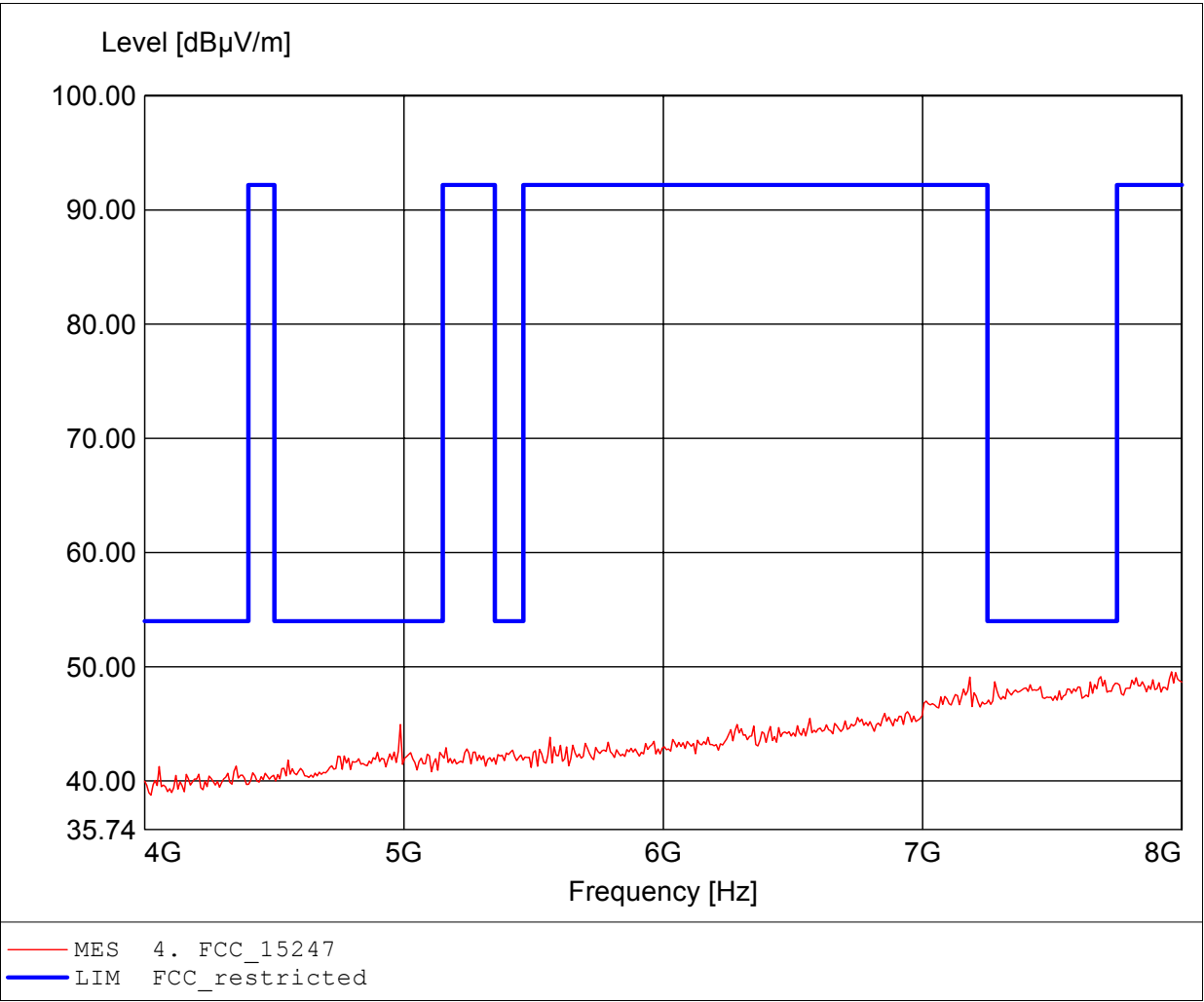
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 3.967GHz, Emax: 43.60dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

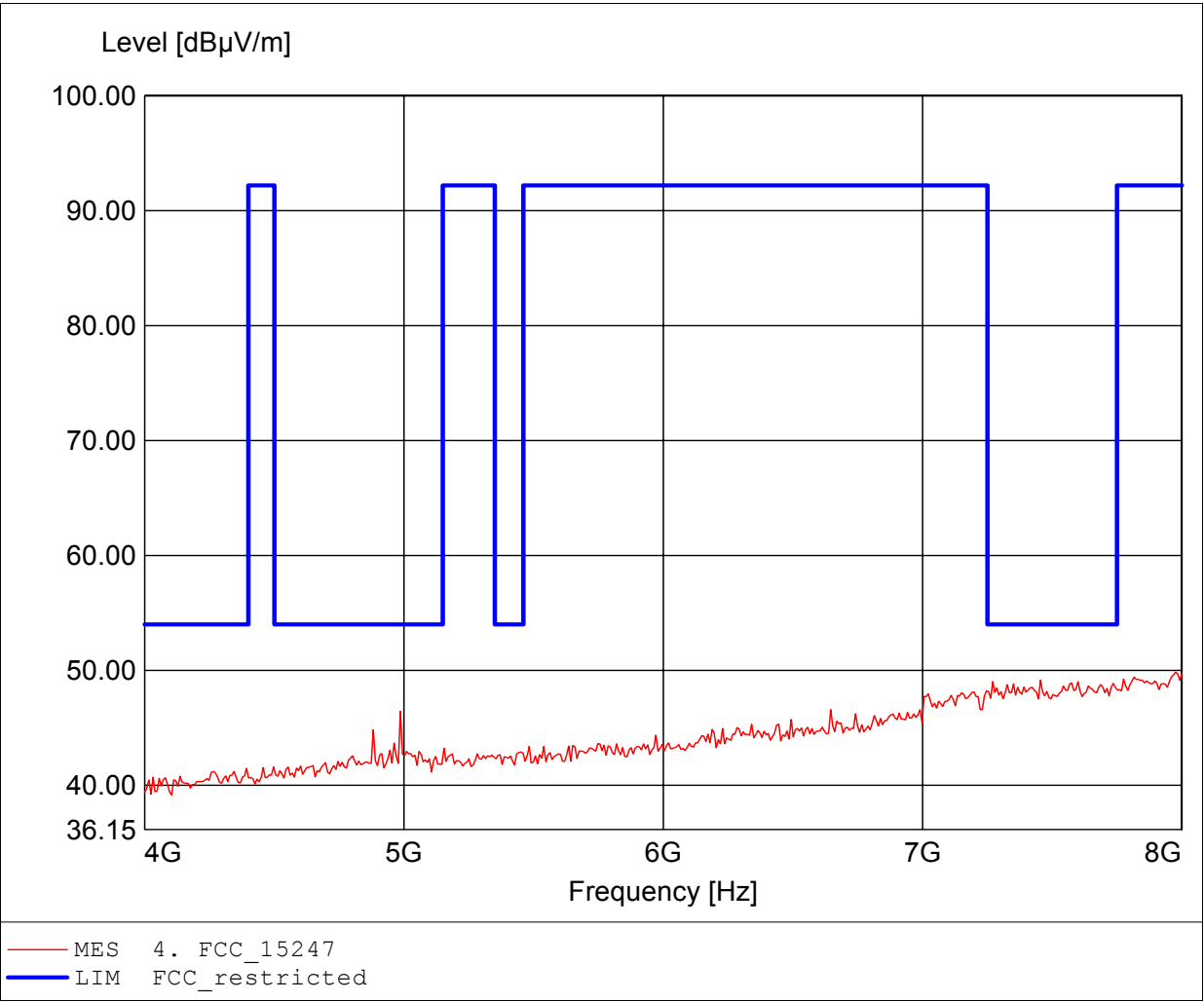
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.960GHz, Emax: 49.56dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

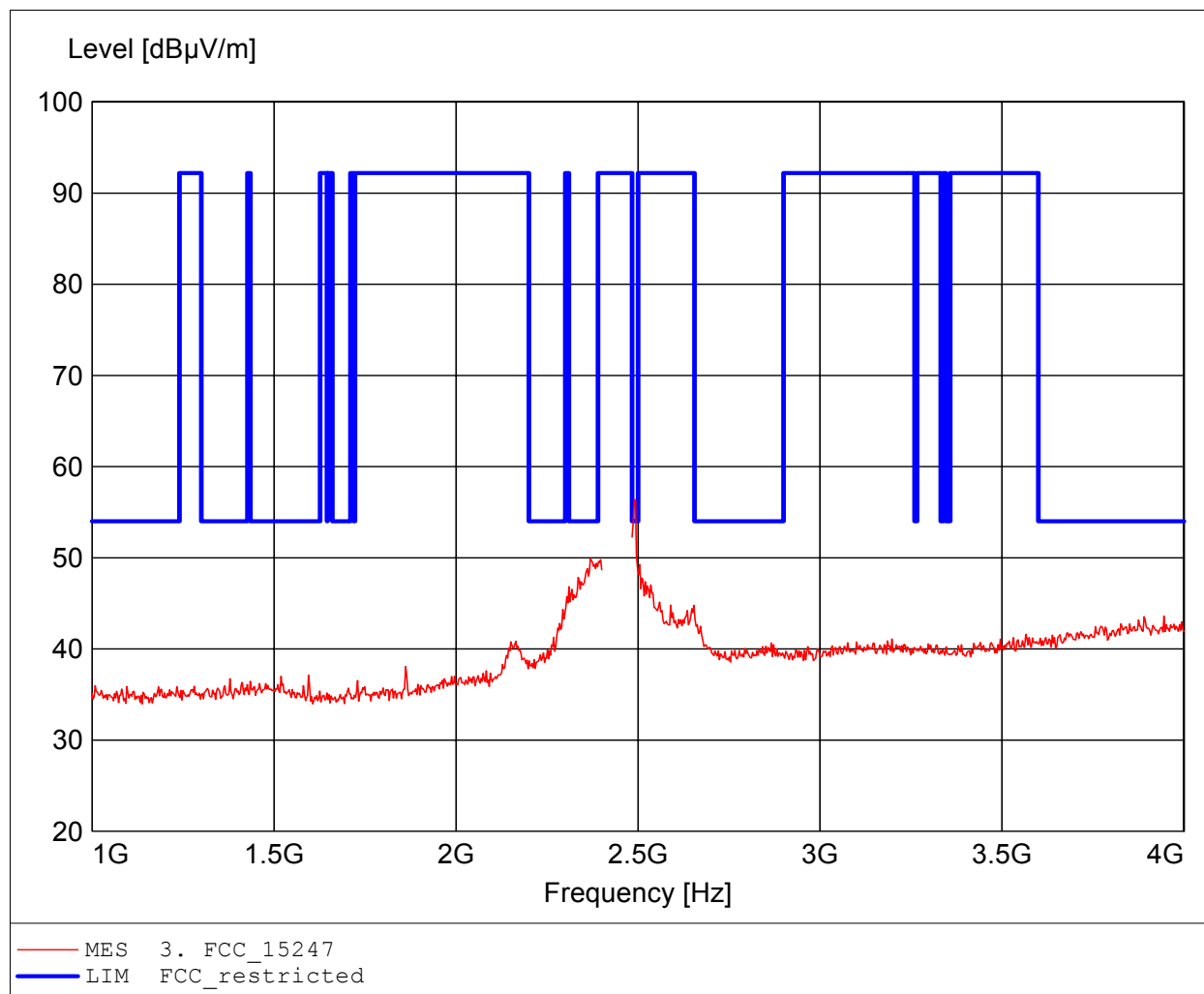
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.976GHz, Emax: 49.84dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

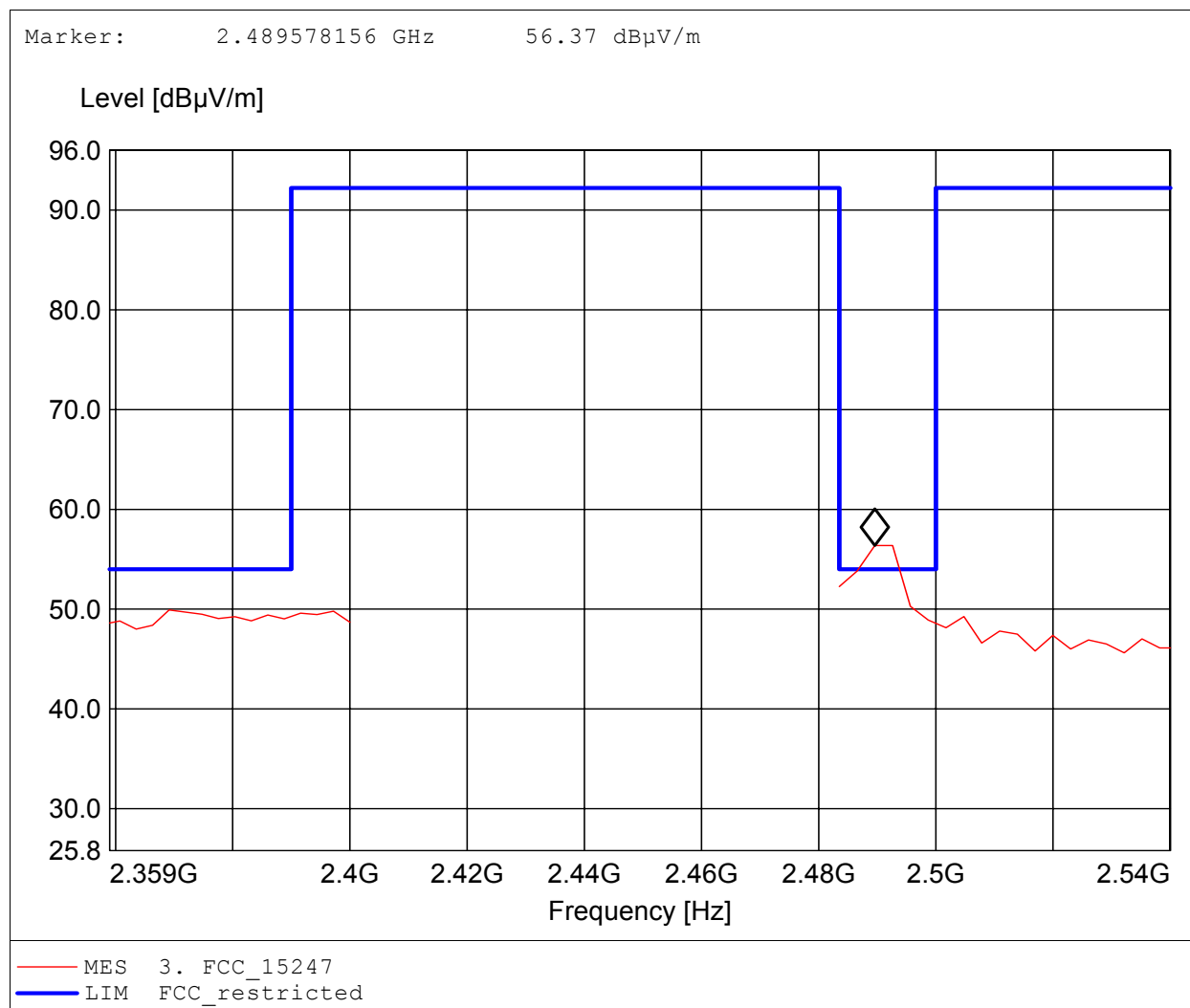
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.493GHz, Emax: 56.37dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

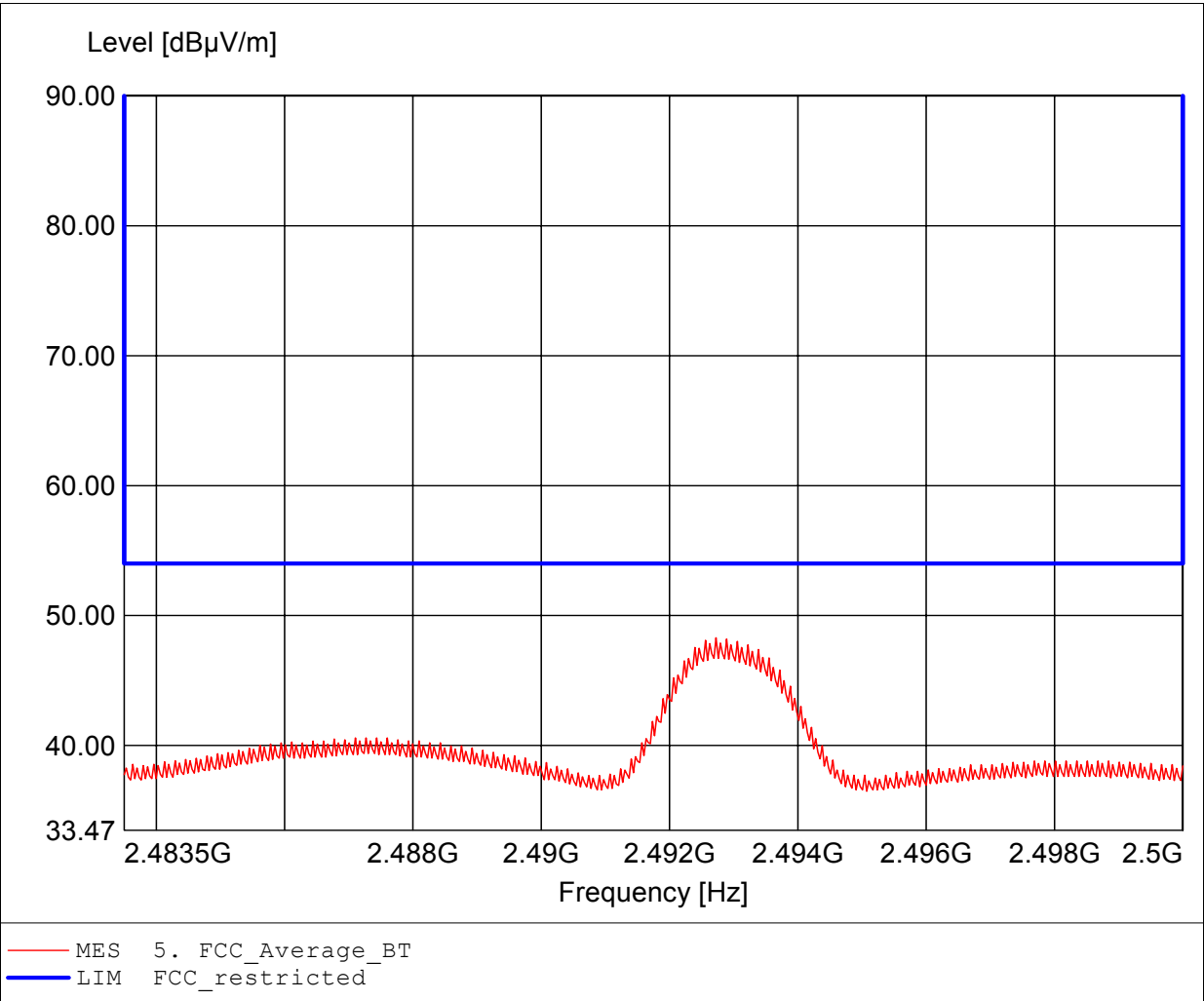
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2402 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.493GHz, Emax: 56.37dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

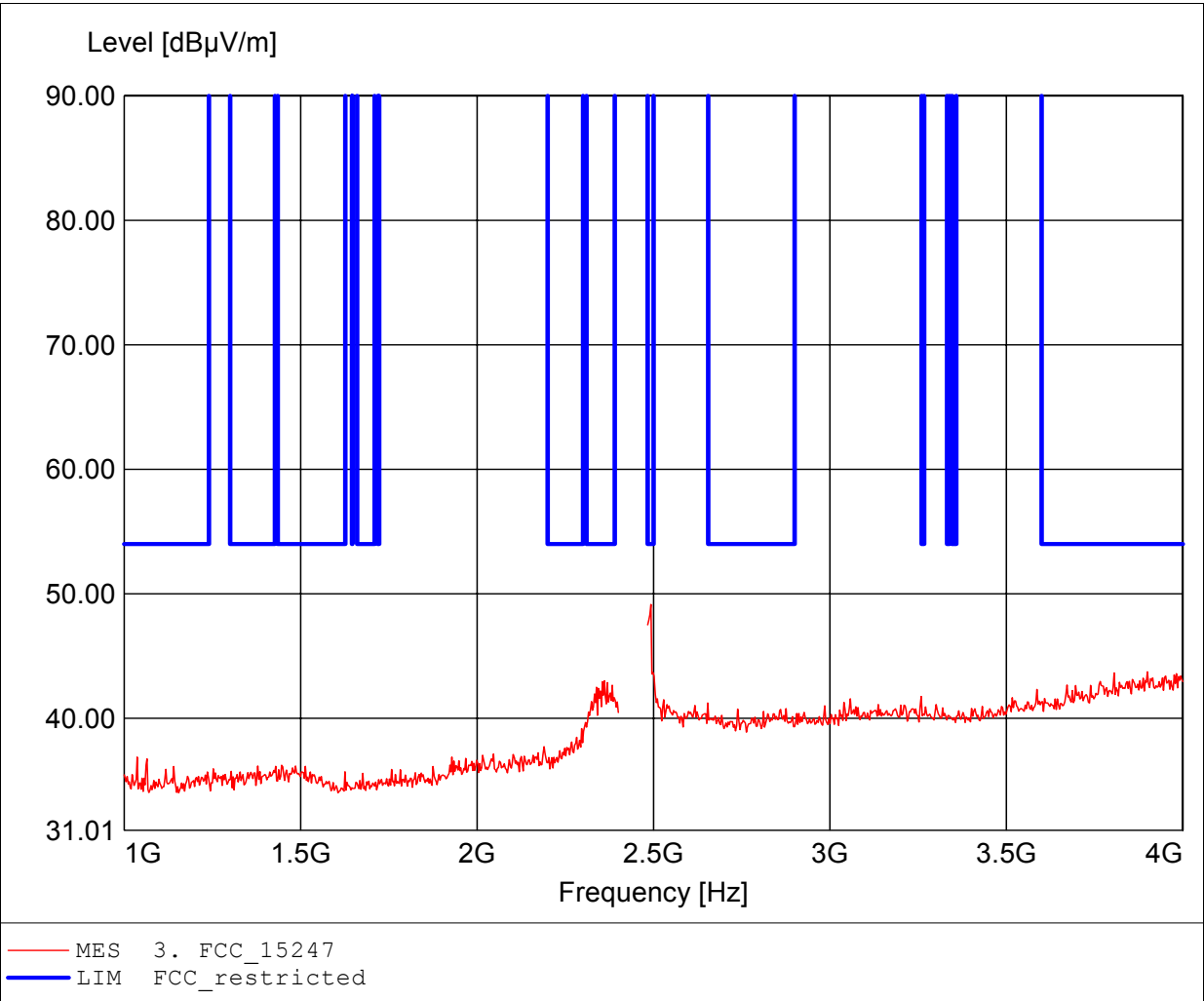
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 2.493GHz, Emax: 48.29dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

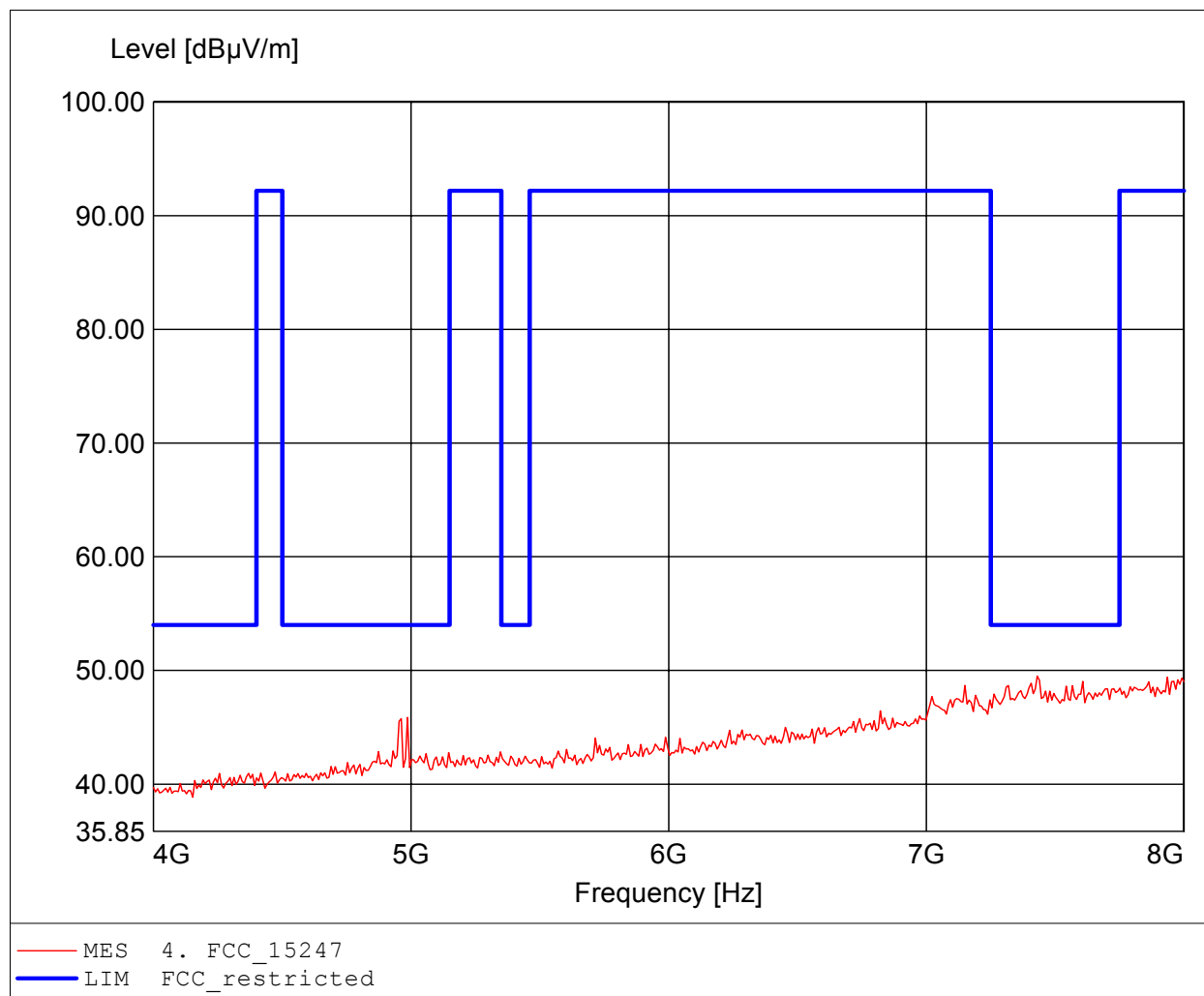
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.493GHz, Emax: 49.15dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

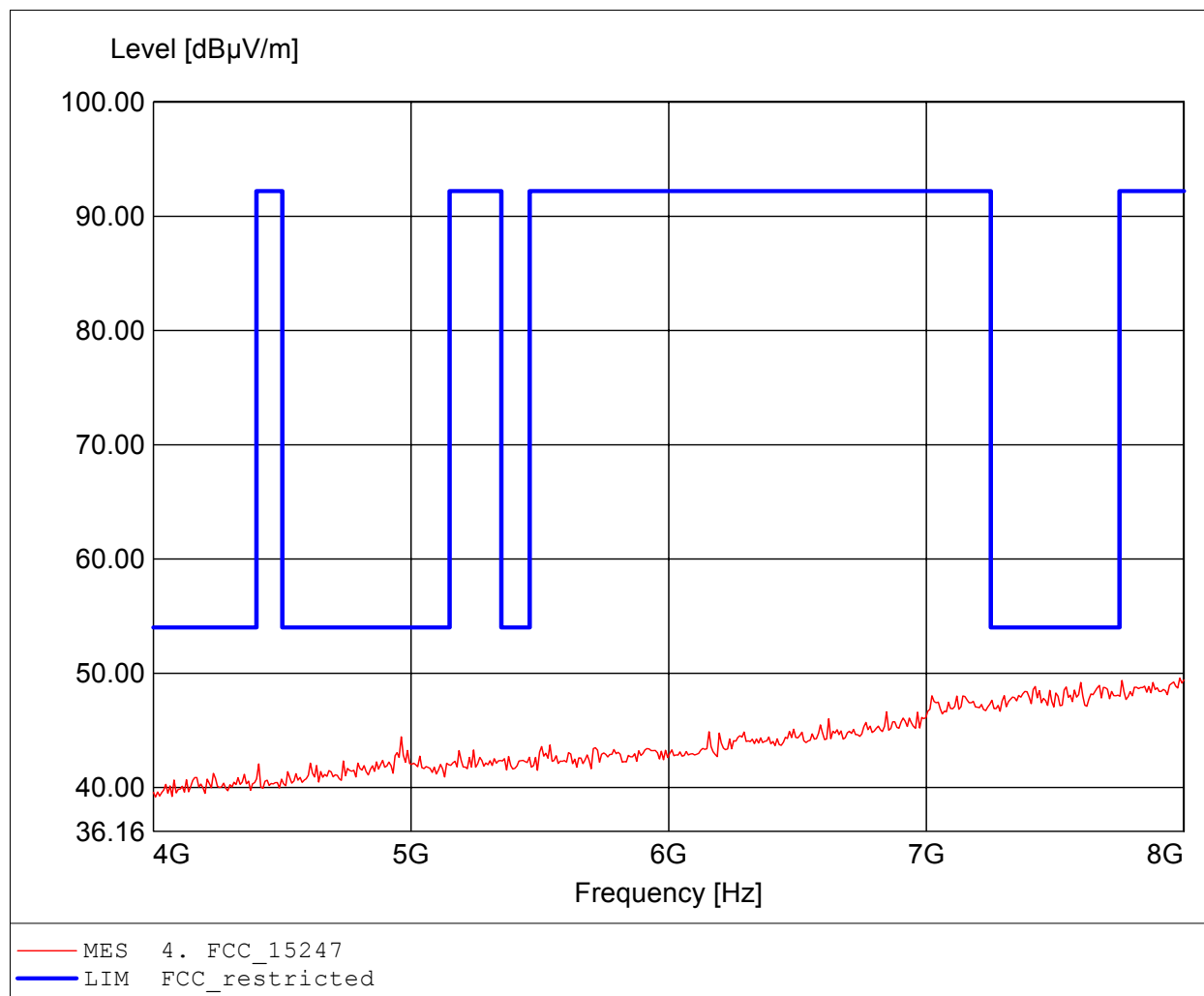
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.431GHz, Emax: 49.51dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Tx EDR EUT hor / 2480 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.984GHz, Emax: 49.56dBµV/m, RBW: 1MHz

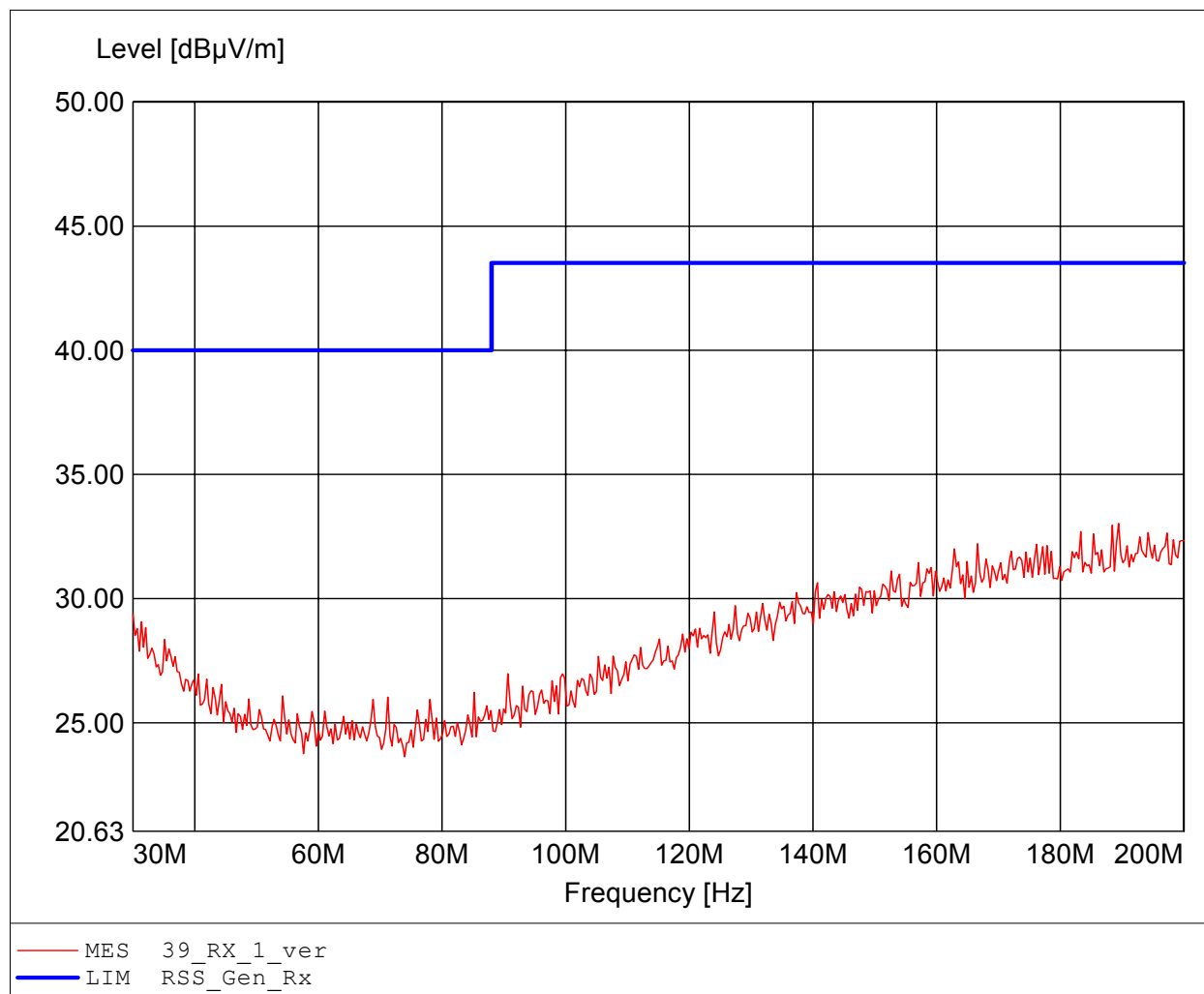


Annex D Receiver radiated spurious emissions

Field Strength under normal conditions

Standards Industry Canada, RSS-GEN

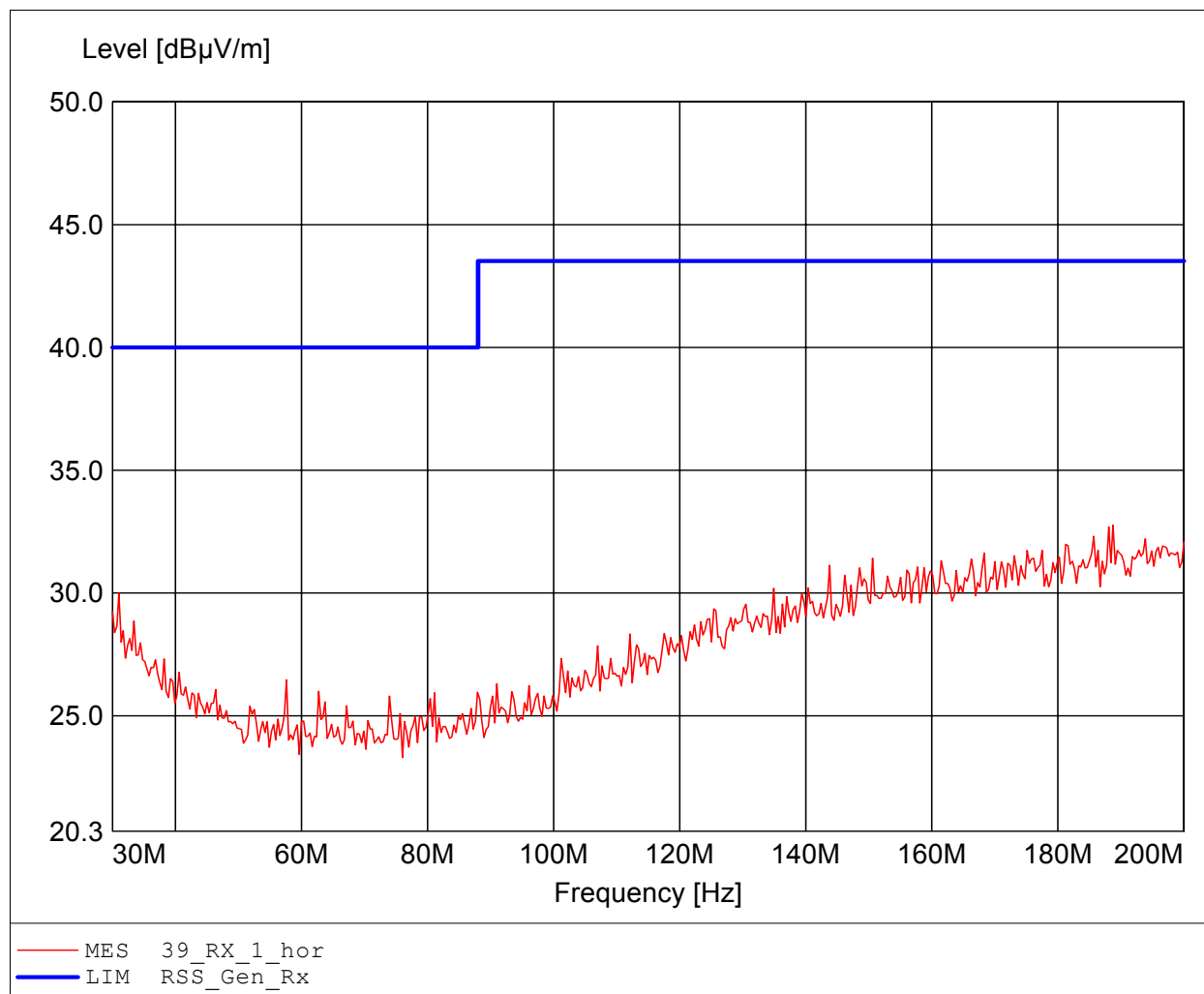
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Rx, EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: Freq. / CH: 39
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:189.439MHz Emax:33.02dBuV/m RBW: 100 kHz



Field Strength under normal conditions

Standards Industry Canada, RSS-GEN

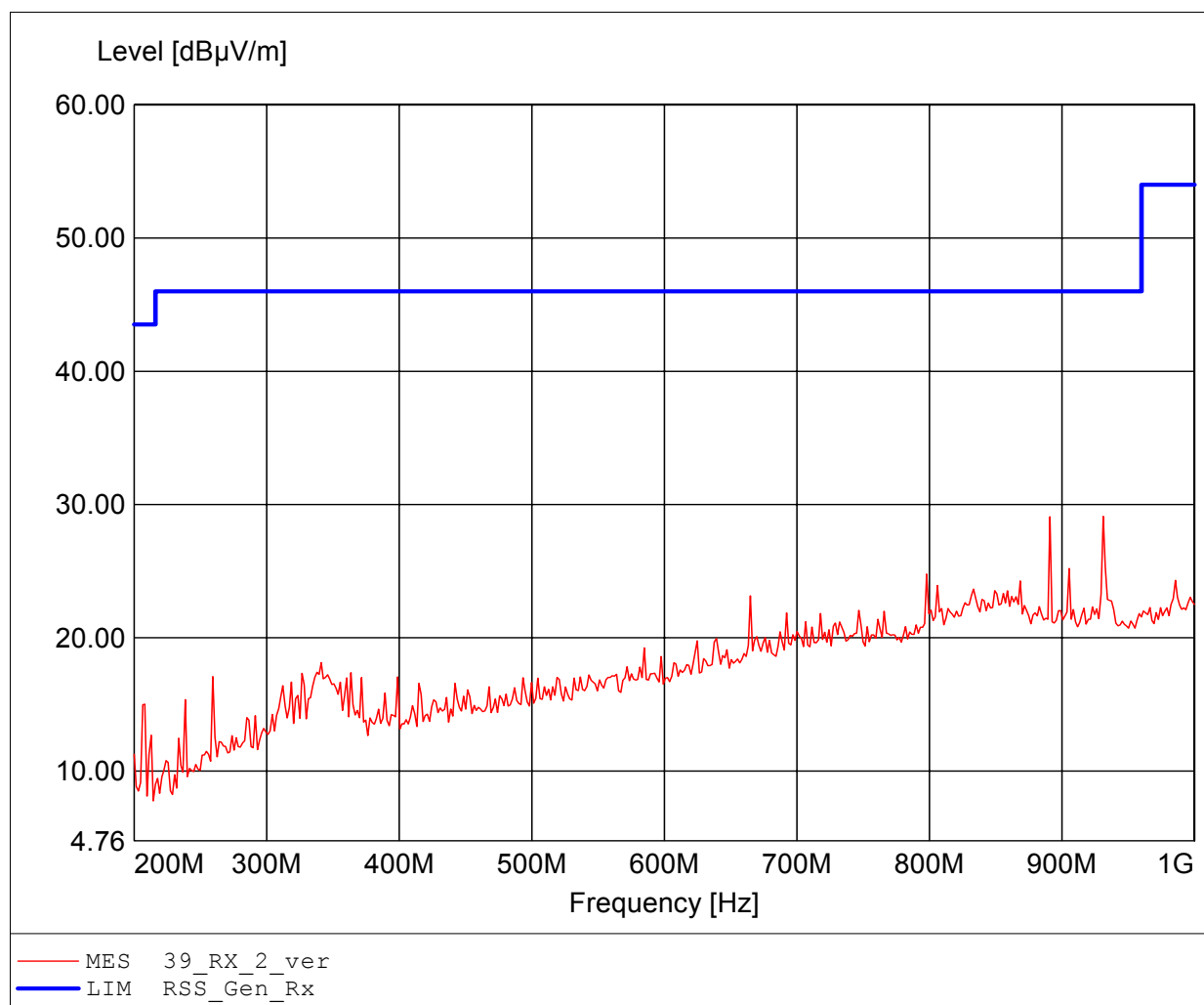
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Rx, EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: Freq. / CH: 39
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:188.758MHz Emax:32.77dBuV/m RBW: 100 kHz



Field Strength under normal conditions

Standards Industry Canada, RSS-GEN

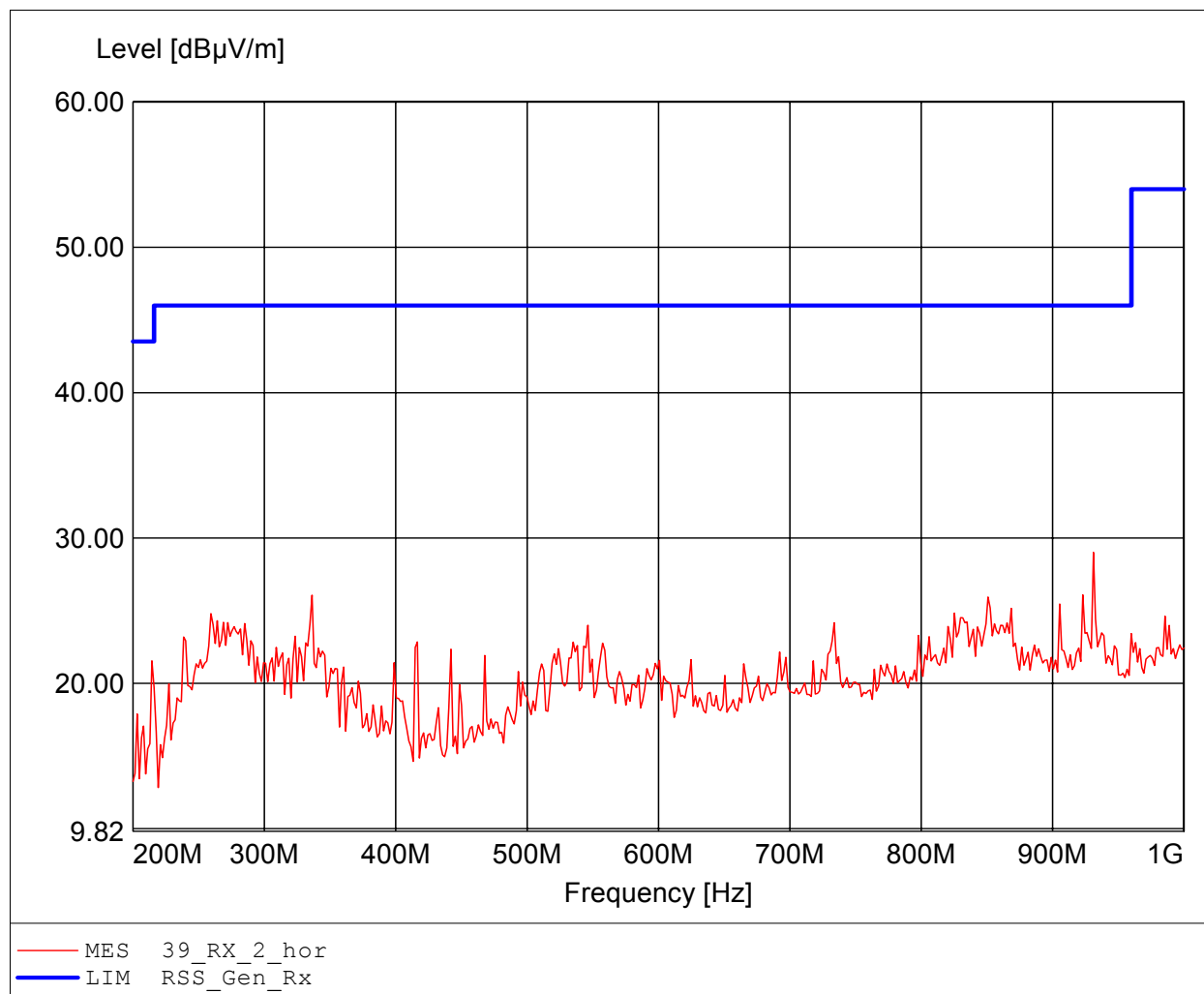
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Rx, EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: Freq. / CH: 39
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Comment 2: Freq: 931.062MHz Emax: 29.11dBµV/m RBW: 100 kHz



Field Strength under normal conditions

Standards Industry Canada, RSS-GEN

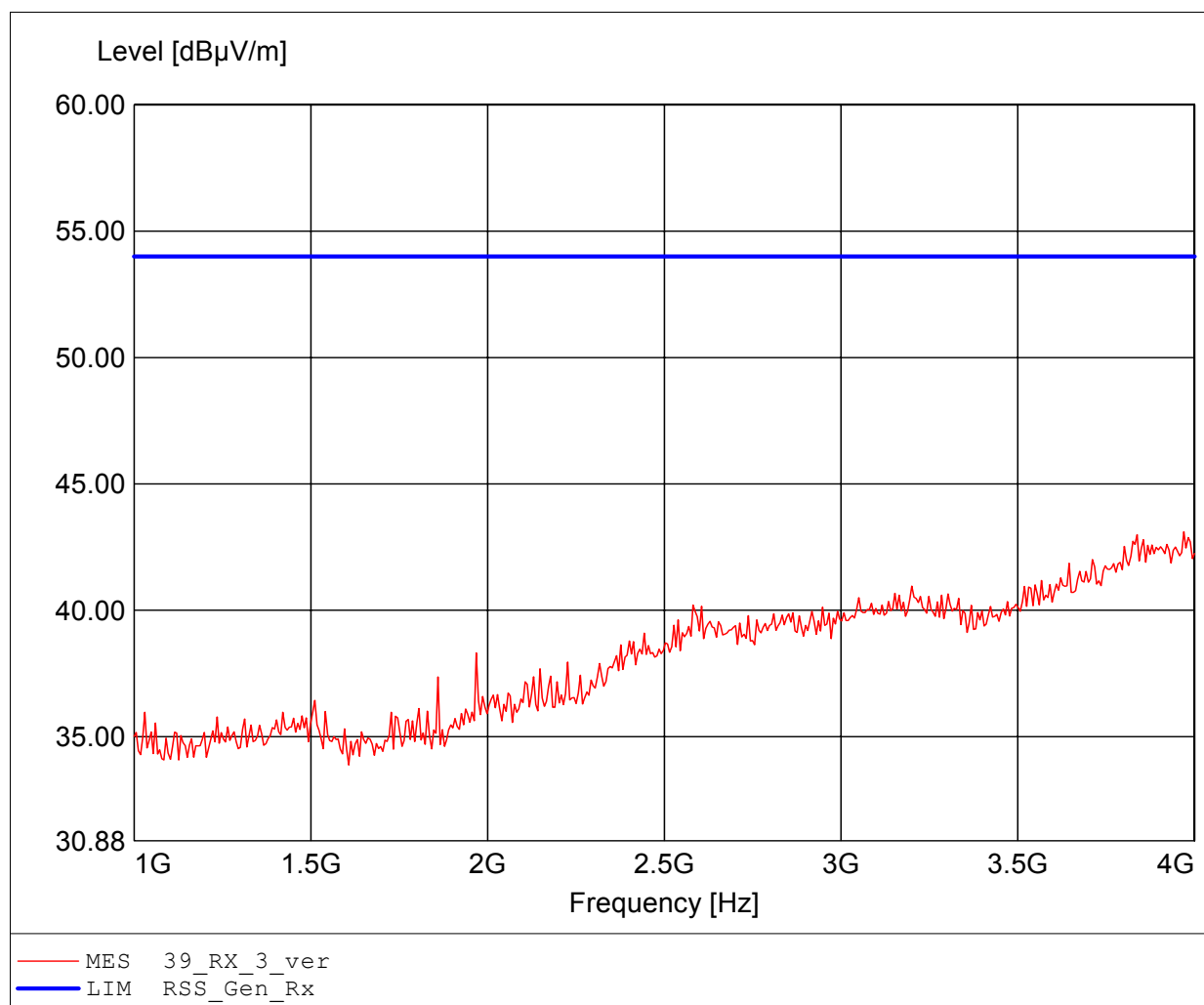
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Rx, EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: Freq. / CH: 39
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Comment 2: Freq: 931.062MHz Emax: 29.01dBuV/m RBW: 100 kHz



Field Strength under normal conditions

Standards Industry Canada, RSS-GEN

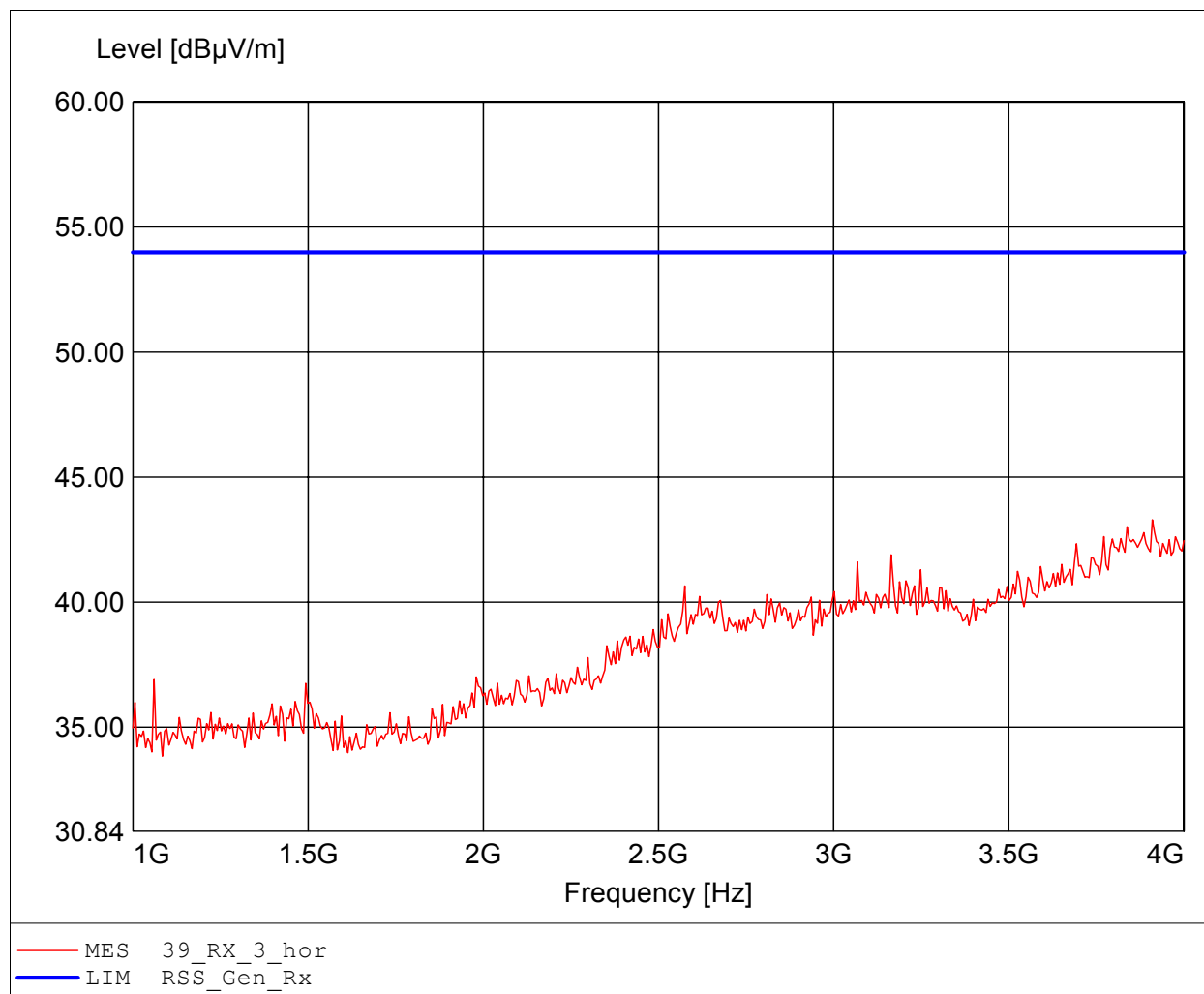
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Rx, EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: Freq. / CH: 39
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:3.970GHz Emax:43.11dBµV/m RBW: 1 MHz



Field Strength under normal conditions

Standards Industry Canada, RSS-GEN

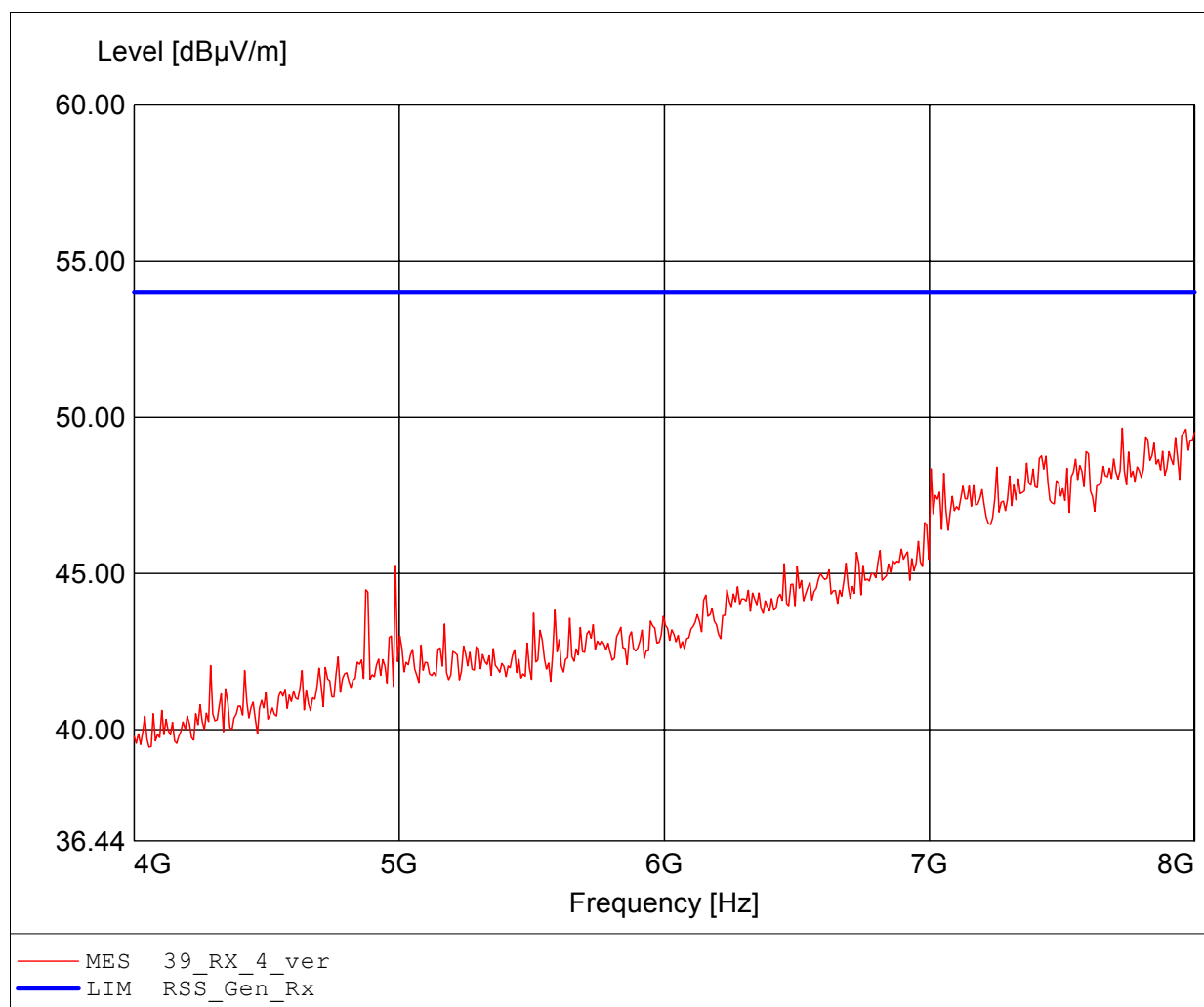
Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Rx, EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: Freq. / CH: 39
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:3.910GHz Emax:43.30dBµV/m RBW: 1 MHz



Field Strength under normal conditions

Standards Industry Canada, RSS-GEN

Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Rx, EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: Freq. / CH: 39
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:7.727GHz Emax:49.65dBµV/m RBW: 1 MHz



Field Strength under normal conditions

Standards Industry Canada, RSS-GEN

Approval Holder: Leica Geosystems AG / GOM-1106-1297
EUT / Model: Bluetooth Cap for Field Controller / CRT16 for CS15
Configuration: setup: Rx, EUT hor / 2441 MHz / EUT-ant. vert.
Test Site / Operator: Eurofins Product Service GmbH / Mr. Treffke
Test Condition: Tnom.: 24°C / Unom: 7.6 V DC
Test Specification: Freq. / CH: 39
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:7.968GHz Emax:49.46dBµV/m RBW: 1 MHz

