

| <b>FCC TEST REPORT</b><br><b>FCC 47 CFR Part 15C</b><br><b>Industry Canada RSS-210</b><br><b>Digital transmission systems operating within the 2400 – 2483.5 MHz band</b> |                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Reference No.</b> .....                                                                                                                                         | G0M-1407-4002-TFC247WF-V02                                                                                                                                                                                                                                                                                               |
| <b>Testing Laboratory</b> .....                                                                                                                                           | Eurofins Product Service GmbH                                                                                                                                                                                                                                                                                            |
| <b>Address</b> .....                                                                                                                                                      | Storkower Str. 38c<br>15526 Reichenwalde<br>Germany                                                                                                                                                                                                                                                                      |
| <b>Accreditation</b> .....                                                                                                                                                |  <br>A2LA Accredited Testing Laboratory, Certificate No.: 1983.01<br>FCC Filed Test Laboratory, Reg.-No.: 96970<br>IC OATS Filing assigned code: 3470A |
| <b>Applicant's name</b> .....                                                                                                                                             | Leica Geosystems AG                                                                                                                                                                                                                                                                                                      |
| <b>Address</b> .....                                                                                                                                                      | Heinrich Wild Strasse<br>9435 Heerbrugg<br>SWITZERLAND                                                                                                                                                                                                                                                                   |
| <b>Test specification:</b>                                                                                                                                                |                                                                                                                                                                                                                                                                                                                          |
| <b>Standard</b> .....                                                                                                                                                     | 47 CFR Part 15C<br>KDB Publication No. 558074<br>RSS-210, Issue 8, 2010-12<br>RSS-Gen, Issue 3, 2010-12<br>ANSI C63.4:2009                                                                                                                                                                                               |
| <b>Test scope</b> .....                                                                                                                                                   | partial Radio compliance test based on valid modular approval                                                                                                                                                                                                                                                            |
| <b>Equipment under test (EUT):</b>                                                                                                                                        |                                                                                                                                                                                                                                                                                                                          |
| Product description                                                                                                                                                       | Laser Distance Meter                                                                                                                                                                                                                                                                                                     |
| Model No.                                                                                                                                                                 | Leica DISTO S910                                                                                                                                                                                                                                                                                                         |
| Additional Model(s)                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                     |
| Brand Name(s)                                                                                                                                                             | Leica DISTO                                                                                                                                                                                                                                                                                                              |
| Hardware version                                                                                                                                                          | V15                                                                                                                                                                                                                                                                                                                      |
| Firmware / Software version                                                                                                                                               | 2332                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                           | FCC-ID: RFF-LD5PS      IC: 3177A-LD5PS                                                                                                                                                                                                                                                                                   |
| <b>Test result</b>                                                                                                                                                        | <b>Passed</b>                                                                                                                                                                                                                                                                                                            |

**Possible test case verdicts:**

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

**Testing:**

Test Lab Temperature.....: 20 – 23 °C

Test Lab Humidity .....: 32 – 38 %

Date of receipt of test item .....: 2014-08-04

Date (s) of performance of tests .....: 2014-09-04 – 2014-09-11

Compiled by .....: Wilfried Treffke

Tested by (+ signature).....: Wilfried Treffke

(Responsible for Test)

Approved by (+ signature) .....: Toralf Jahn

Date of issue .....: 2014-12-10

Total number of pages .....: 71


**General remarks:**

**The test results presented in this report relate only to the object tested.**

**The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.**

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

**Additional comments:**

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## Version History

| Version | Issue Date | Remarks                                                                                                                                          | Revised by   |
|---------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 01      | 2014-09-30 | Initial Release                                                                                                                                  |              |
| 02      | 2014-12-10 | Replaced document: G0M-1407-4002-TFC247WF-V01<br>Replaced by: G0M-1407-4002-TFC247WF-V02<br><br>Reason: Page 5 - the frequencies were corrected. | A. Schladitz |

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## 1 Equipment (Test item) Description

|                             |                               |                                    |                     |                   |
|-----------------------------|-------------------------------|------------------------------------|---------------------|-------------------|
| Description                 | Laser Distance Meter          |                                    |                     |                   |
| Model                       | Leica DISTO S910              |                                    |                     |                   |
| Additional Model(s)         | None                          |                                    |                     |                   |
| Brand Name(s)               | Leica DISTO                   |                                    |                     |                   |
| Serial number               | None                          |                                    |                     |                   |
| Hardware version            | V15                           |                                    |                     |                   |
| Software / Firmware version | 2332                          |                                    |                     |                   |
| FCC-ID                      | RFF-LD5PS                     |                                    |                     |                   |
| IC                          | 3177A-LD5PS                   |                                    |                     |                   |
| Equipment type              | End product                   |                                    |                     |                   |
| Radio type                  | Transceiver                   |                                    |                     |                   |
| Radio technology            | IEEE 802.11b/g/n Wireless LAN |                                    |                     |                   |
| Operating frequency range   | 2412 - 2462 MHz               |                                    |                     |                   |
| Assigned frequency band     | 2400 - 2483.5 MHz             |                                    |                     |                   |
| Main test frequencies       | F <sub>LOW20</sub>            | 2412 MHz (20 MHz)                  | F <sub>LOW40</sub>  | 2422 MHz (40 MHz) |
|                             | F <sub>MID20</sub>            | 2437 MHz (20 MHz)                  | F <sub>MID40</sub>  | 2437 MHz (40 MHz) |
|                             | F <sub>HIGH20</sub>           | 2462 MHz (20 MHz)                  | F <sub>HIGH40</sub> | 2462 MHz (40 MHz) |
| Spreading                   | CCK, DSSS, OFDM               |                                    |                     |                   |
| Modulations                 | BPSK, QPSK, 16-QAM, 64-QAM    |                                    |                     |                   |
| Number of channels          | 20 MHz = 11; 40 MHz = 7       |                                    |                     |                   |
| Channel spacing             | 5MHz                          |                                    |                     |                   |
| Number of antennas          | 1                             |                                    |                     |                   |
| Radio module                | Type                          | WLAN module                        |                     |                   |
|                             | Model                         | WF121-A                            |                     |                   |
|                             | Manufacturer                  | Blue Giga                          |                     |                   |
|                             | HW Version                    | 4                                  |                     |                   |
|                             | SW Version                    | 1.2.3-69                           |                     |                   |
|                             | FCC-ID                        | QOQ-WF121                          |                     |                   |
|                             | IC                            | 5123A-BGTWF121                     |                     |                   |
| Antenna                     | Type                          | integrated                         |                     |                   |
|                             | Model                         | WF121-A                            |                     |                   |
|                             | Manufacturer                  | Blue Giga                          |                     |                   |
|                             | Gain                          | 0.5 dBi (manufacturer declaration) |                     |                   |

|                      |                                                                                    |                                   |
|----------------------|------------------------------------------------------------------------------------|-----------------------------------|
| <b>Manufacturer</b>  | Flextronics International GmbH<br>Friesacher Strasse 3<br>9330 Althofen<br>AUSTRIA |                                   |
|                      |                                                                                    |                                   |
| <b>Power supply</b>  | V <sub>NOM</sub>                                                                   | 3.0 VDC                           |
|                      | V <sub>MIN</sub>                                                                   | 2.55 VDC                          |
|                      | V <sub>MAX</sub>                                                                   | 3.45 VDC                          |
| <b>AC/DC-Adaptor</b> | Model                                                                              | 3A-061WP05 (P/N EMS060100-P5P-SZ) |
|                      | Vendor                                                                             | CUI Inc.                          |
|                      | Input                                                                              | 100-240 VAC / 50-60 Hz / 0.3 A    |
|                      | Output                                                                             | 4-6 VDC / 6 W MAX                 |

#### 1.4 Supporting Equipment Used During Testing

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

## 1.5 Test Modes

| Mode #  | Description         |                                                                                                                                                                                                            |
|---------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DSSS    | General conditions: | EUT powered by laboratory power supply.                                                                                                                                                                    |
|         | Radio conditions:   | Mode = standalone transmit<br>Spreading = Hopping stopped (single hopping channel)<br>Modulation = BPSK<br>Data rate = 1 Mbps<br>Bandwidth = 20 MHz<br>Duty cycle = 100 %<br>Power level = Maximum         |
| OFDM    | General conditions: | EUT powered by laboratory power supply.                                                                                                                                                                    |
|         | Radio conditions:   | Mode = standalone transmit<br>Spreading = Hopping stopped (single hopping channel)<br>Modulation = QPSK<br>Data rate = 6 Mbps<br>Bandwidth = 20 MHz<br>Duty cycle = 100 %<br>Power level = Maximum         |
| HT20    | General conditions: | EUT powered by laboratory power supply.                                                                                                                                                                    |
|         | Radio conditions:   | Mode = standalone transmit<br>Spreading = OFDM<br>Modulation = BPSK<br>MCS index = 0<br>Guard Interval = long<br>Bandwidth = 20 MHz<br>Data rate = 6.5 Mbps<br>Duty cycle = 100 %<br>Power level = Maximum |
| Receive | General conditions: | EUT powered by laboratory power supply.                                                                                                                                                                    |
|         | Radio conditions:   | Mode = standalone receive<br>Spreading = DSSS / OFDM                                                                                                                                                       |

## 1.6 Test Equipment Used During Testing

| Measurement Software |                  |            |           |
|----------------------|------------------|------------|-----------|
| Description          | Manufacturer     | Name       | Version   |
| EMC Test Software    | Dare Instruments | Radimation | 2014.1.15 |

| Occupied Bandwidth |              |        |            |           |          |
|--------------------|--------------|--------|------------|-----------|----------|
| Description        | Manufacturer | Model  | Identifier | Cal. Date | Cal. Due |
| Spectrum Analyzer  | R&S          | FSP 30 | EF00312    |           |          |

| 6dB Bandwidth     |              |        |            |           |          |
|-------------------|--------------|--------|------------|-----------|----------|
| Description       | Manufacturer | Model  | Identifier | Cal. Date | Cal. Due |
| Spectrum Analyzer | R&S          | FSP 30 | EF00312    |           |          |

| Maximum peak conducted power |              |        |            |           |          |
|------------------------------|--------------|--------|------------|-----------|----------|
| Description                  | Manufacturer | Model  | Identifier | Cal. Date | Cal. Due |
| Spectrum Analyzer            | R&S          | FSP 30 | EF00312    |           |          |

| Power spectral density |              |        |            |           |          |
|------------------------|--------------|--------|------------|-----------|----------|
| Description            | Manufacturer | Model  | Identifier | Cal. Date | Cal. Due |
| Spectrum Analyzer      | R&S          | FSP 30 | EF00312    |           |          |

| Radiated spurious emissions |              |        |            |           |          |
|-----------------------------|--------------|--------|------------|-----------|----------|
| Description                 | Manufacturer | Model  | Identifier | Cal. Date | Cal. Due |
| Semi-anechoic chamber       | Frankonia    | AC 1   | EF00062    | 2013-01   | 2015-01  |
| Spectrum Analyzer           | R&S          | FSIQ26 | EF00242    | 2014-03   | 2015-03  |
| Biconical Antenna           | R&S          | HK 116 | EF00012    | 2013-02   | 2016-02  |
| LPD Antenna                 | R&S          | HL 223 | EF00187    | 2014-03   | 2017-03  |
| LPD Antenna                 | R&S          | HL 025 | EF00327    | 2013-02   | 2016-02  |

## 1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dBμV. 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 dBμV/m). The FCC limits are given in units of μV/m. The following formula is used to convert the units of μV/m to dBμV/m:

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

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

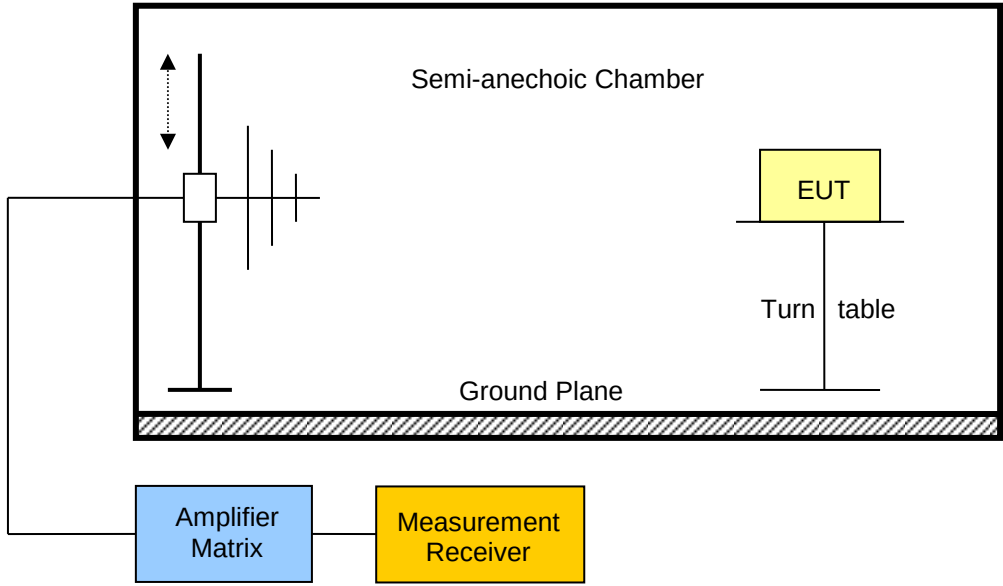
$$\begin{array}{rclclcl} \text{Reading} & + & \text{AF} & = & \text{Net Reading} & : & \text{Net reading - FCC limit} & = & \text{Margin} \\ 21.5 \text{ dB}\mu\text{V} & + & 26 \text{ dB} & = & 47.5 \text{ dB}\mu\text{V/m} & : & 47.5 \text{ dB}\mu\text{V/m} - 57.0 \text{ dB}\mu\text{V/m} & = & -9.5 \text{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

## 2 Result Summary

| FCC 47 CFR Part 15C, IC RSS-210                                                          |                                         |                                          |        |                                   |
|------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------|--------|-----------------------------------|
| Product Specific Standard Section                                                        | Requirement – Test                      | Reference Method                         | Result | Remarks                           |
| RSS-Gen 4.6.1                                                                            | Occupied Bandwidth                      | RSS-Gen 4.6.1                            | N/R    | Testing based on modular approval |
| FCC § 15.247(a)(2)<br>IC RSS-210 § A8.2                                                  | 6dB Bandwidth                           | KDB Publication No. 558074               | N/R    | Testing based on modular approval |
| FCC § 15.247(b)(3)<br>IC RSS-210 § A8.4                                                  | Maximum peak conducted power            | KDB Publication No. 558074               | N/R    | Testing based on modular approval |
| FCC § 15.247(e)<br>IC RSS-210 § A8.2                                                     | Power spectral density                  | KDB Publication No. 558074               | N/R    | Testing based on modular approval |
| 47 CFR 15.207<br>RSS-Gen 7.2.4                                                           | AC power line conducted emissions       | KDB Publication No. 558074 / ANSI C63.4  | N/R    | Testing based on modular approval |
| FCC § 15.247(d)<br>IC RSS-210 § A8.5                                                     | Band edge compliance                    | KDB Publication No. 558074               | N/R    | Testing based on modular approval |
| FCC § 15.247(d)<br>IC RSS-210 § A8.5                                                     | Conducted spurious emissions            | KDB Publication No. 558074               | N/R    | Testing based on modular approval |
| FCC § 15.247(d)<br>FCC § 15.209<br>IC RSS-210 A8.5<br>IC RSS-Gen 4.9<br>IC RSS-Gen 7.2.5 | Transmitter radiated spurious emissions | KDB Publication No. 558074 / ANSI C 63.4 | PASS   |                                   |
| IC RSS-Gen 4.10<br>IC RSS-Gen 6.1                                                        | Receiver radiated spurious emissions    | ANSI C 63.4                              | PASS   |                                   |
| Remarks:                                                                                 |                                         |                                          |        |                                   |

### 3 Test Conditions and Results

#### 3.1 Test Conditions and Results – Transmitter radiated emissions

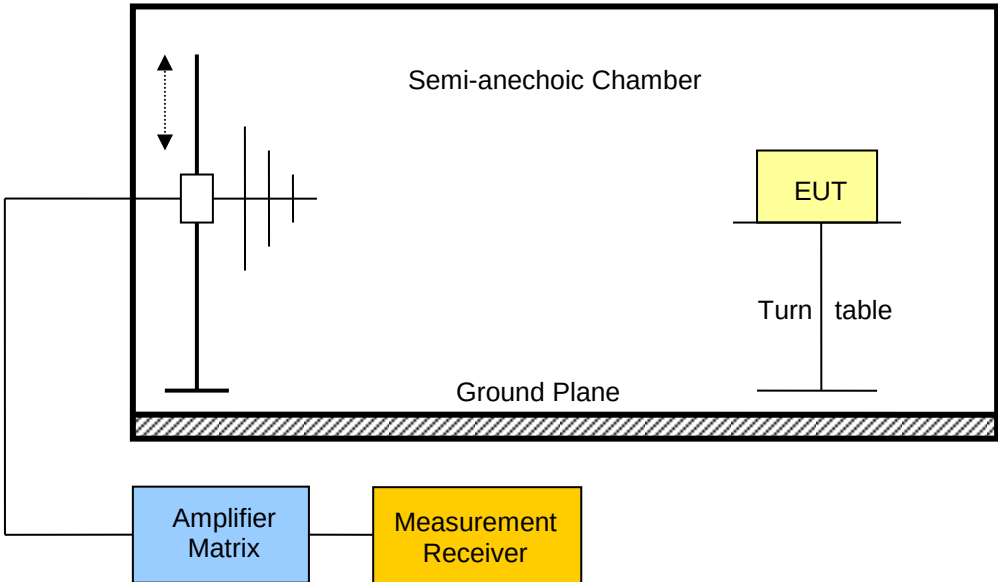
| Transmitter radiated emissions acc. FCC 47 CFR 15.247 / IC RSS-210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |              |                | Verdict: PASS      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------|----------------|--------------------|
| Test according referenced standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Reference Method                            |              |                |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FCC 15.247(d) / IC RSS-210 A8.5             |              |                |                    |
| Test according to measurement reference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Reference Method                            |              |                |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FCC KDB Publication No. 558074 / ANSI C63.4 |              |                |                    |
| Test frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Tested frequencies                          |              |                |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 30 MHz – 10 <sup>th</sup> Harmonic          |              |                |                    |
| Limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                             |              |                |                    |
| Frequency range [MHz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Detector                                    | Limit [μV/m] | Limit [dBμV/m] | Limit Distance [m] |
| 30 – 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quasi-Peak                                  | 100          | 40             | 3                  |
| 88 – 216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quasi-Peak                                  | 150          | 43.5           | 3                  |
| 216 – 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quasi-Peak                                  | 200          | 46             | 3                  |
| 960 – 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Quasi-Peak                                  | 500          | 54             | 3                  |
| > 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Average                                     | 500          | 54             | 3                  |
| <p>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)).</p> <p>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.</p> |                                             |              |                |                    |
| Test setup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             |              |                |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |              |                |                    |

Test Report No.: G0M-1407-4002-TFC247WF-V02

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

| Test procedure                                                                                                                                                                                                                                                                                                                                                                                                                |                 |      |                |                |      |      |                |                  |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|----------------|----------------|------|------|----------------|------------------|-------------|
| <ol style="list-style-type: none"> <li>1. EUT set to test mode (Communication tester is used if needed)</li> <li>2. Span it set according to measurement range</li> <li>3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz</li> <li>4. Markers are set to peak emission levels within restricted bands</li> </ol> |                 |      |                |                |      |      |                |                  |             |
| Test results – Internal Antenna                                                                                                                                                                                                                                                                                                                                                                                               |                 |      |                |                |      |      |                |                  |             |
| Channel                                                                                                                                                                                                                                                                                                                                                                                                                       | Frequency [MHz] | Mode | Emission [MHz] | Level [dBμV/m] | Det. | Pol. | Limit [dBμV/m] | Limit dist. [m]* | Margin [dB] |
| F <sub>LOW</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2412            | DSSS | 265.6          | 28.22          | pk   | hor  | 46.00          | 3                | -17.78      |
| F <sub>LOW</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2412            | DSSS | 2390           | 56.32          | pk   | hor  | 74.00          | 3                | -17.68      |
| F <sub>LOW</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2412            | DSSS | 2390           | 29.63          | RMS  | hor  | 54.00          | 3                | -24.37      |
| F <sub>LOW</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2412            | DSSS | 2390           | 57.97          | pk   | ver  | 74.00          | 3                | -16.03      |
| F <sub>LOW</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2412            | DSSS | 2390           | 30.33          | RMS  | ver  | 54.00          | 3                | -23.67      |
| F <sub>MID</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2437            | DSSS | 2388.8         | 48.27          | pk   | ver  | 74.00          | 3                | -25.73      |
| F <sub>MID</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2437            | DSSS | 2489.6         | 46.24          | pk   | hor  | 74.00          | 3                | -27.76      |
| F <sub>MID</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2437            | DSSS | 2495.6         | 46.39          | pk   | ver  | 74.00          | 3                | -27.61      |
| F <sub>HIGH</sub>                                                                                                                                                                                                                                                                                                                                                                                                             | 2462            | DSSS | 2483.6         | 54.28          | pk   | hor  | 74.00          | 3                | -19.72      |
| F <sub>HIGH</sub>                                                                                                                                                                                                                                                                                                                                                                                                             | 2462            | DSSS | 2483.6         | 29.93          | RMS  | hor  | 54.00          | 3                | -24.07      |
| F <sub>HIGH</sub>                                                                                                                                                                                                                                                                                                                                                                                                             | 2462            | DSSS | 2483.6         | 54.66          | pk   | ver  | 74.00          | 3                | -19.34      |
| F <sub>HIGH</sub>                                                                                                                                                                                                                                                                                                                                                                                                             | 2462            | DSSS | 2483.6         | 30.04          | RMS  | ver  | 54.00          | 3                | -23.96      |
| F <sub>LOW</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2462            | HT20 | 2389           | 47.28          | pk   | hor  | 74.00          | 3                | -26.72      |
| F <sub>LOW</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2412            | HT20 | 2389           | 33.26          | RMS  | hor  | 54.00          | 3                | -20.74      |
| F <sub>LOW</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2412            | HT20 | 2389           | 50.43          | pk   | ver  | 74.00          | 3                | -23.57      |
| F <sub>LOW</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2412            | HT20 | 2389           | 32.92          | RMS  | ver  | 54.00          | 3                | -21.08      |
| F <sub>HIGH</sub>                                                                                                                                                                                                                                                                                                                                                                                                             | 2462            | HT20 | 2483.6         | 48.85          | pk   | hor  | 74.00          | 3                | -25.15      |
| F <sub>HIGH</sub>                                                                                                                                                                                                                                                                                                                                                                                                             | 2462            | HT20 | 2483.6         | 34.52          | RMS  | hor  | 54.00          | 3                | -19.48      |
| F <sub>HIGH</sub>                                                                                                                                                                                                                                                                                                                                                                                                             | 2462            | HT20 | 2483.6         | 47.84          | pk   | ver  | 74.00          | 3                | -26.16      |
| F <sub>HIGH</sub>                                                                                                                                                                                                                                                                                                                                                                                                             | 2462            | HT20 | 2483.6         | 33.80          | RMS  | ver  | 54.00          | 3                | -20.20      |
| F <sub>LOW</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2462            | OFDM | 2388           | 47.54          | pk   | hor  | 74.00          | 3                | -26.46      |
| F <sub>LOW</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2462            | OFDM | 2388           | 32.90          | RMS  | hor  | 54.00          | 3                | -21.10      |
| F <sub>LOW</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2462            | OFDM | 2390           | 46.44          | pk   | ver  | 74.00          | 3                | -27.56      |
| F <sub>LOW</sub>                                                                                                                                                                                                                                                                                                                                                                                                              | 2462            | OFDM | 2390           | 32.89          | RMS  | ver  | 54.00          | 3                | -21.11      |
| Comments: * Physical distance between EUT and measurement antenna.                                                                                                                                                                                                                                                                                                                                                            |                 |      |                |                |      |      |                |                  |             |

### 3.2 Test Conditions and Results – Receiver radiated emissions

| Receiver radiated emissions acc. IC RSS-210                                          |                                   |              |                | Verdict: PASS      |
|--------------------------------------------------------------------------------------|-----------------------------------|--------------|----------------|--------------------|
| Test according referenced standards                                                  | Reference Method                  |              |                |                    |
|                                                                                      | IC RSS-210 A8.5                   |              |                |                    |
| Test according to measurement reference                                              | Reference Method                  |              |                |                    |
|                                                                                      | ANSI C63.4                        |              |                |                    |
| Test frequency range                                                                 | Tested frequencies                |              |                |                    |
|                                                                                      | 30 MHz – 3 <sup>th</sup> Harmonic |              |                |                    |
| EUT test mode                                                                        | Receive                           |              |                |                    |
| Limits                                                                               |                                   |              |                |                    |
| Frequency range [MHz]                                                                | Detector                          | Limit [μV/m] | Limit [dBμV/m] | Limit Distance [m] |
| 30 – 88                                                                              | Quasi-Peak                        | 100          | 40             | 3                  |
| 88 – 216                                                                             | Quasi-Peak                        | 150          | 43.5           | 3                  |
| 216 – 960                                                                            | Quasi-Peak                        | 200          | 46             | 3                  |
| 960 – 1000                                                                           | Quasi-Peak                        | 500          | 54             | 3                  |
| > 1000                                                                               | Average                           | 500          | 54             | 3                  |
| Test setup                                                                           |                                   |              |                |                    |
|  |                                   |              |                |                    |

| Test procedure                                                                                                                                                                                                                                                                                                                                                                                           |                 |                |                               |                             |      |                    |                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|-------------------------------|-----------------------------|------|--------------------|---------------------|
| <ol style="list-style-type: none"> <li>1. EUT set to receive mode (Communication tester is used if needed)</li> <li>2. Span it set according to measurement range</li> <li>3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz</li> <li>4. Markers are set to peak emission levels</li> </ol> |                 |                |                               |                             |      |                    |                     |
| Test results                                                                                                                                                                                                                                                                                                                                                                                             |                 |                |                               |                             |      |                    |                     |
| Channel                                                                                                                                                                                                                                                                                                                                                                                                  | Frequency [MHz] | Emission [MHz] | Emission Level [db $\mu$ V/m] | Emission Level [ $\mu$ V/m] | Det. | Limit [ $\mu$ V/m] | Margin [ $\mu$ V/m] |
| F <sub>MID</sub>                                                                                                                                                                                                                                                                                                                                                                                         | 2437            | 265.6          | 29.55                         | 30.03                       | pk   | 200.00             | -169.97             |
| F <sub>MID</sub>                                                                                                                                                                                                                                                                                                                                                                                         | 2437            | 664            | 43.52                         | 149.97                      | pk   | 200.00             | -50.03              |
| F <sub>MID</sub>                                                                                                                                                                                                                                                                                                                                                                                         | 2437            | 1114           | 42.58                         | 134.59                      | pk   | 500.00             | -365.41             |
| F <sub>MID</sub>                                                                                                                                                                                                                                                                                                                                                                                         | 2437            | 1858           | 43.59                         | 151.18                      | pk   | 500.00             | -348.82             |
| F <sub>MID</sub>                                                                                                                                                                                                                                                                                                                                                                                         | 2437            | 1858           | 44.36                         | 165.20                      | pk   | 500.00             | -334.80             |
| F <sub>MID</sub>                                                                                                                                                                                                                                                                                                                                                                                         | 2437            | 1990           | 44.36                         | 165.20                      | pk   | 500.00             | -334.80             |
| Comments:                                                                                                                                                                                                                                                                                                                                                                                                |                 |                |                               |                             |      |                    |                     |

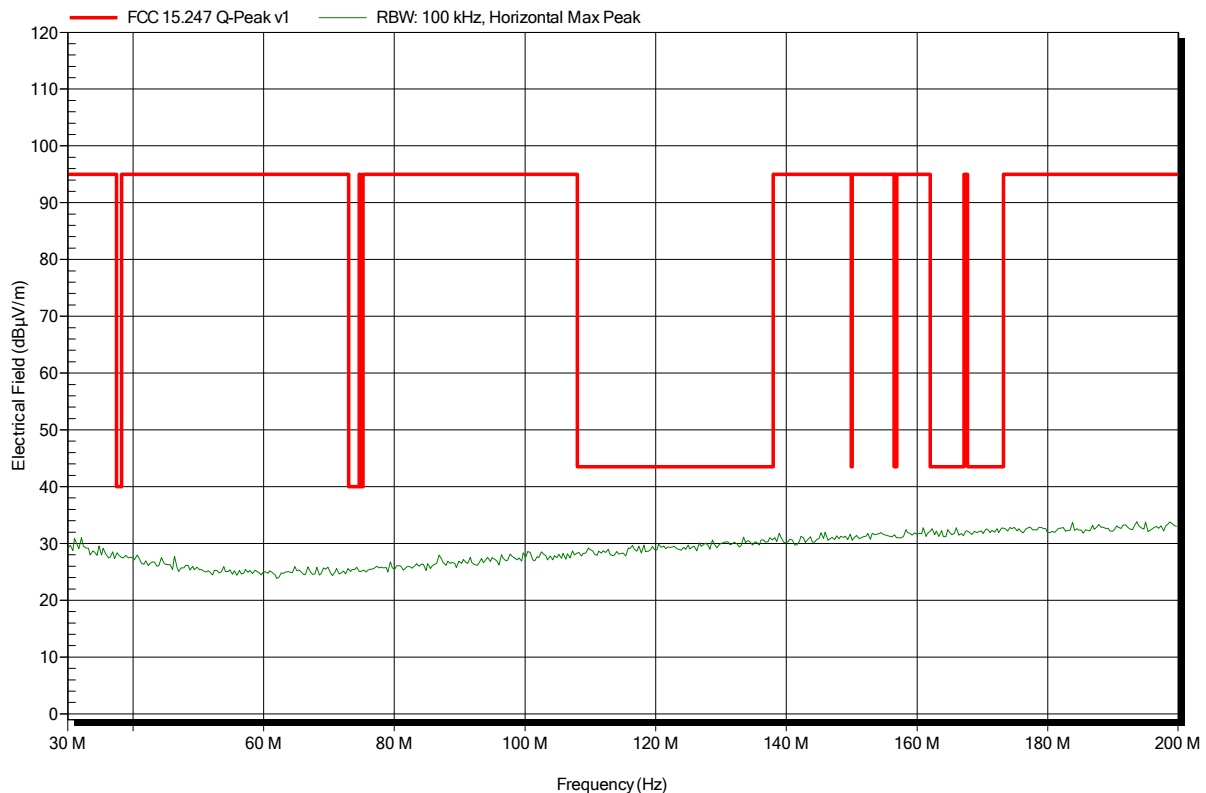
## ANNEX A Transmitter radiated spurious emissions

### Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

|                       |                                            |
|-----------------------|--------------------------------------------|
| Applicant:            | Leica Geosystems                           |
| EUT Name:             | Laser Distance Meter                       |
| Model:                | Leica DISTO S910                           |
| Test Site:            | Eurofins Product Service GmbH              |
| Operator:             | Mr. Treffke                                |
| Test Conditions:      | Tnom: 25°C, Vnom: 3.6 V DC lithium battery |
| Antenna:              | Rohde & Schwarz HK 116, Horizontal         |
| Measurement distance: | 3 m                                        |
| Mode:                 | TX; DSSS; 1 Mbit/s; 2412 MHz               |
| Test Date:            | 2014-09-10                                 |
| Note:                 | worst case                                 |

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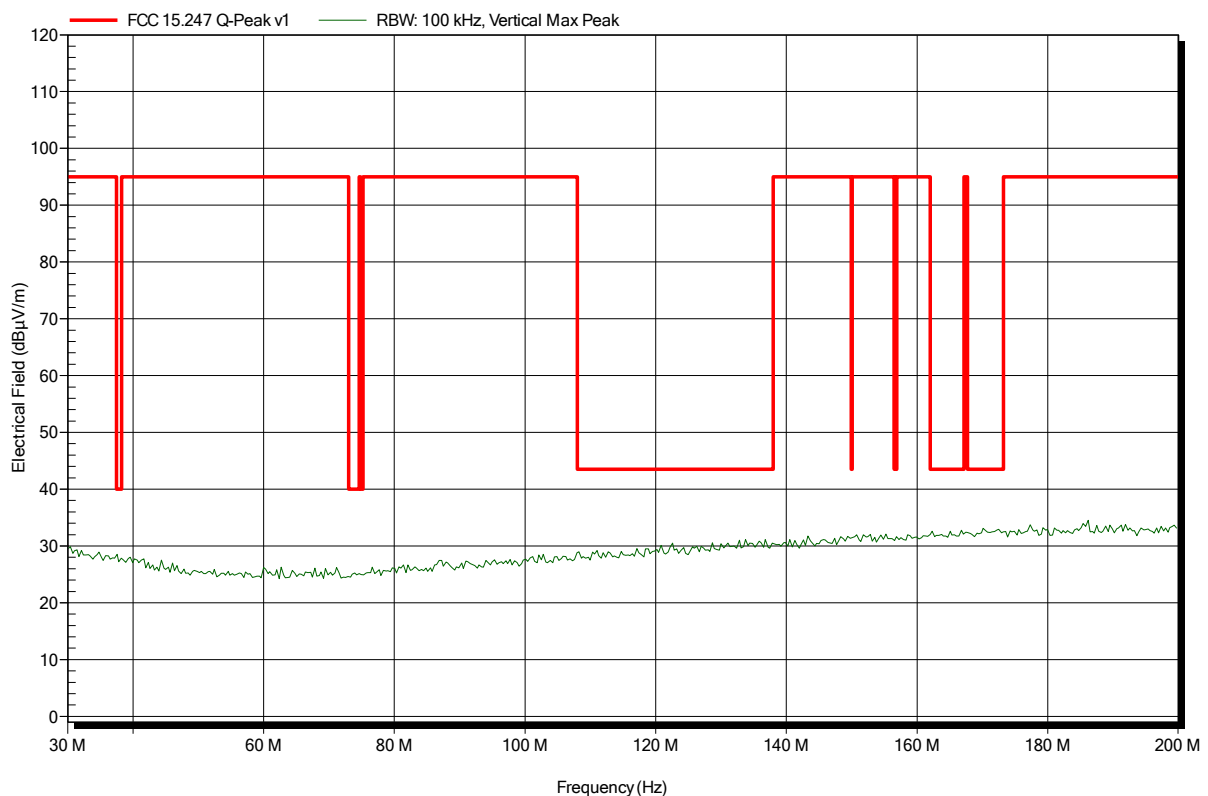


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

|                       |                                            |
|-----------------------|--------------------------------------------|
| Applicant:            | Leica Geosystems                           |
| EUT Name:             | Laser Distance Meter                       |
| Model:                | Leica DISTO S910                           |
| Test Site:            | Eurofins Product Service GmbH              |
| Operator:             | Mr. Treffke                                |
| Test Conditions:      | Tnom: 25°C, Vnom: 3.6 V DC lithium battery |
| Antenna:              | Rohde & Schwarz HK 116, Vertical           |
| Measurement distance: | 3 m                                        |
| Mode:                 | TX; DSSS; 1 Mbit/s; 2412 MHz               |
| Test Date:            | 2014-09-10                                 |
| Note:                 | worst case                                 |

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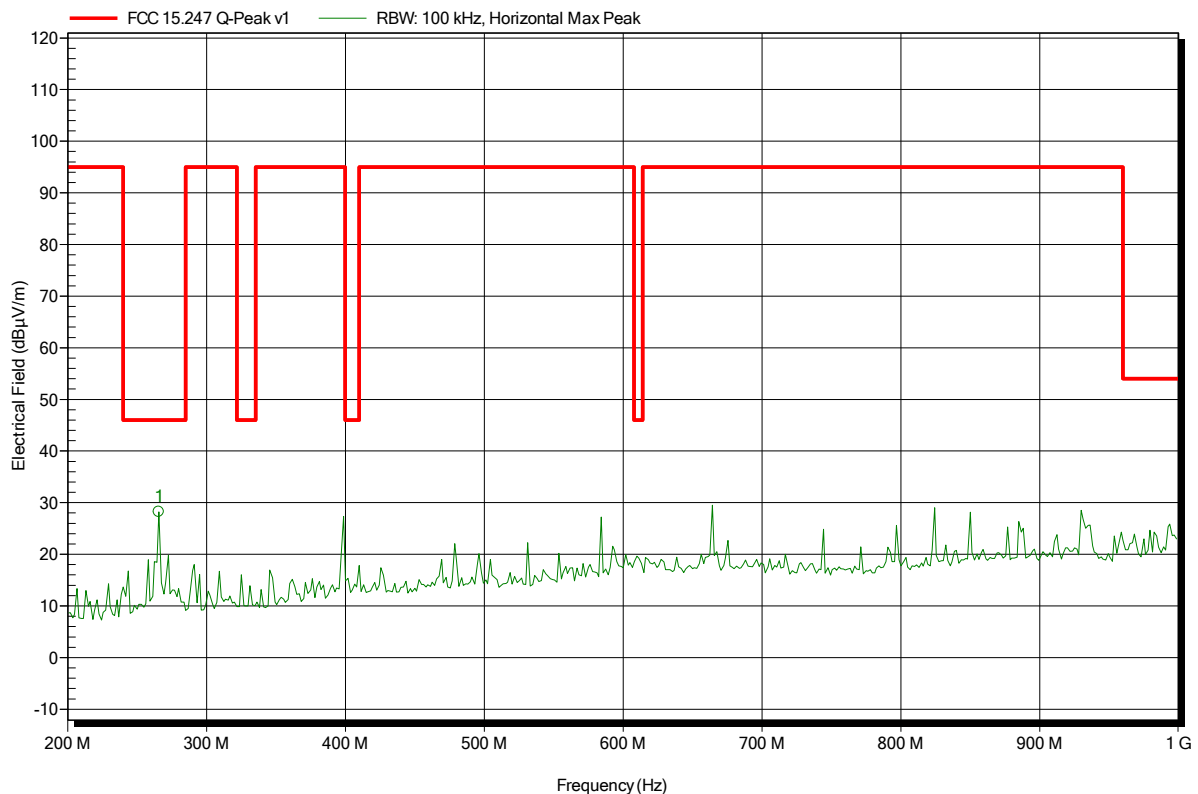


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 223, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2412 MHz  
 Test Date: 2014-09-10  
 Note: worst case

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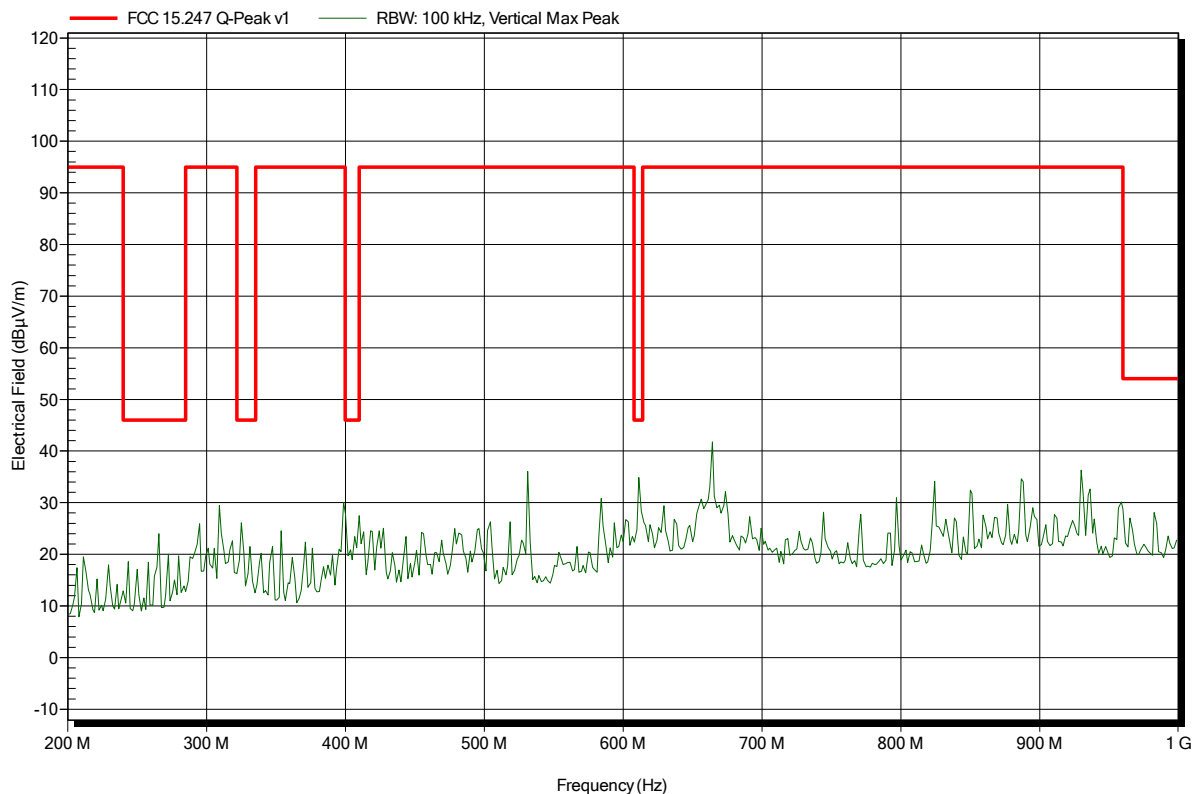
| Frequency | Peak         | Peak Limit | Peak Difference | Peak Status |
|-----------|--------------|------------|-----------------|-------------|
| 265.6 MHz | 28.22 dBµV/m | 46 dBµV/m  | -17.78 dB       | Pass        |

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

|                       |                                            |
|-----------------------|--------------------------------------------|
| Applicant:            | Leica Geosystems                           |
| EUT Name:             | Laser Distance Meter                       |
| Model:                | Leica DISTO S910                           |
| Test Site:            | Eurofins Product Service GmbH              |
| Operator:             | Mr. Treffke                                |
| Test Conditions:      | Tnom: 25°C, Vnom: 3.6 V DC lithium battery |
| Antenna:              | Rohde & Schwarz HL 223, Vertical           |
| Measurement distance: | 3 m                                        |
| Mode:                 | TX; DSSS; 1 Mbit/s; 2412 MHz               |
| Test Date:            | 2014-09-10                                 |
| Note:                 | worst case                                 |

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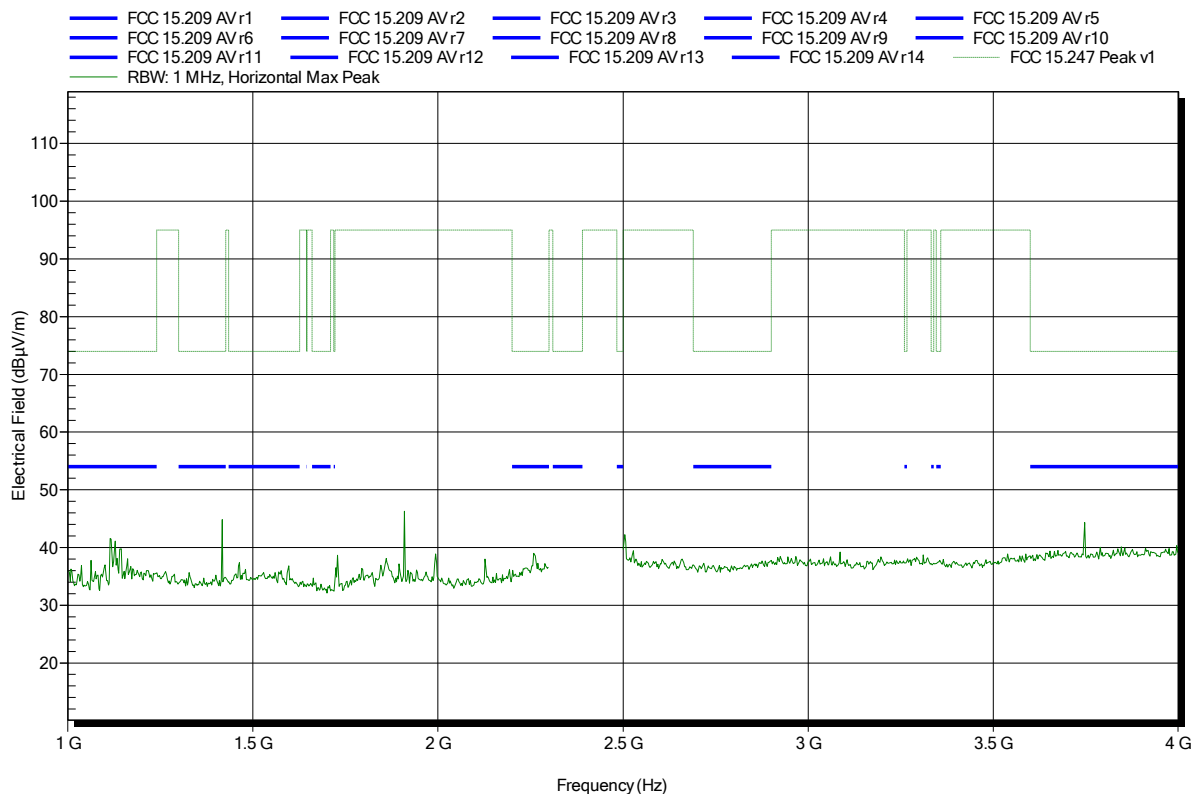


## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2412 MHz  
 Test Date: 2014-09-10  
 Note:

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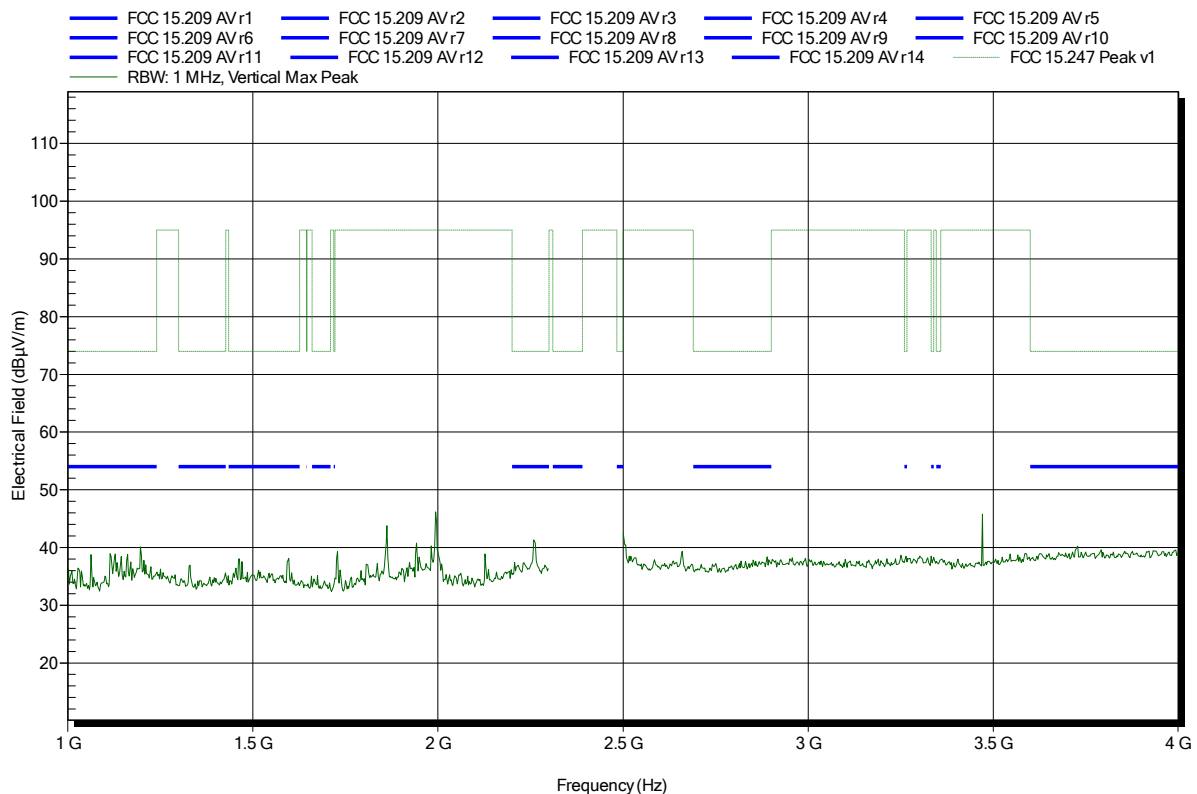


**Spurious emissions according to FCC 15.247**

Project number: GOM-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2412 MHz  
 Test Date: 2014-09-10  
 Note:

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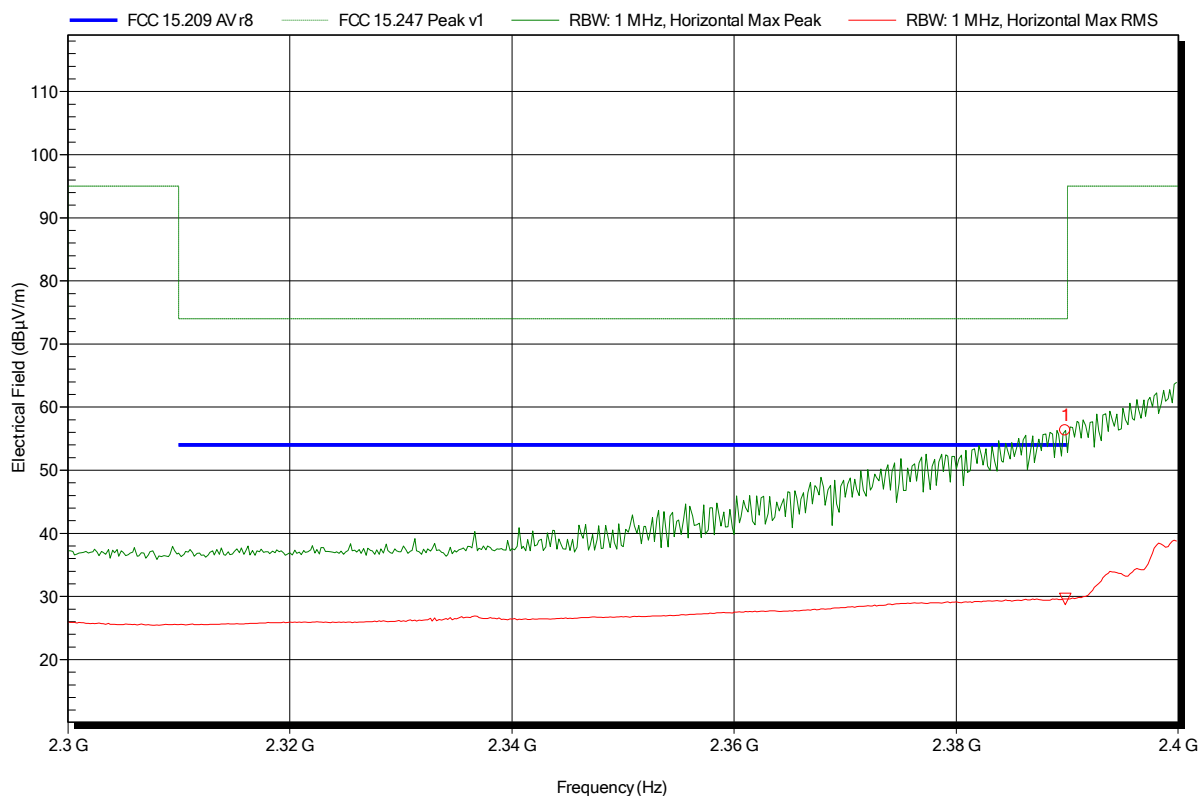


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2412 MHz  
 Test Date: 2014-09-10  
 Note: lower bandedge

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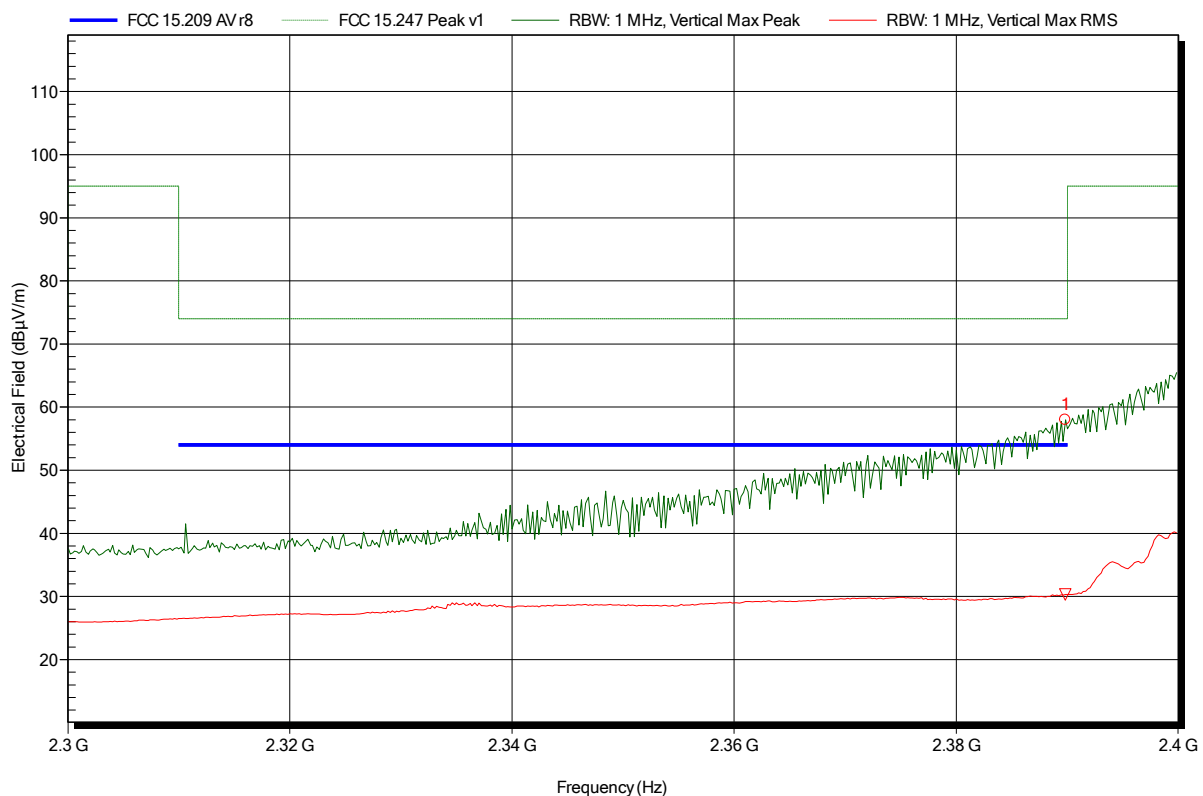
|                       |                      |                         |                              |                     |
|-----------------------|----------------------|-------------------------|------------------------------|---------------------|
| Frequency<br>2.39 GHz | Peak<br>56.32 dBµV/m | Peak Limit<br>74 dBµV/m | Peak Difference<br>-17.68 dB | Peak Status<br>Pass |
| Frequency<br>2.39 GHz | RMS<br>29.63 dBµV/m  | RMS Limit<br>54 dBµV/m  | RMS Difference<br>-24.37 dB  | RMS Status<br>Pass  |

## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
EUT Name: Laser Distance Meter  
Model: Leica DISTO S910  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Treffke  
Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
Antenna: Schwarzbeck BBHA 9120D, Vertical  
Measurement distance: 3 m  
Mode: TX; DSSS; 1 Mbit/s; 2412 MHz  
Test Date: 2014-09-10  
Note: lower bandedge

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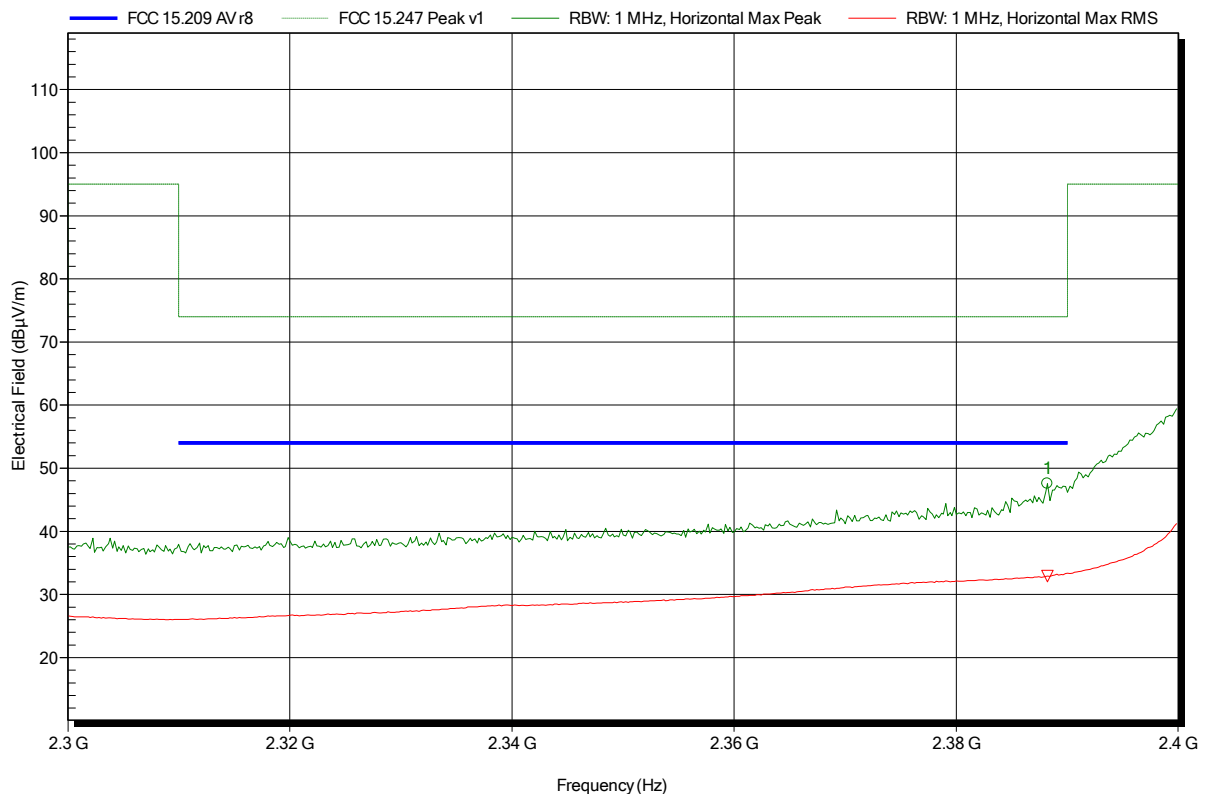
|                       |                      |                         |                              |                     |
|-----------------------|----------------------|-------------------------|------------------------------|---------------------|
| Frequency<br>2.39 GHz | Peak<br>57.97 dBµV/m | Peak Limit<br>74 dBµV/m | Peak Difference<br>-16.03 dB | Peak Status<br>Pass |
| Frequency<br>2.39 GHz | RMS<br>30.33 dBµV/m  | RMS Limit<br>54 dBµV/m  | RMS Difference<br>-23.67 dB  | RMS Status<br>Pass  |

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; OFDM; 6 Mbit/s; 2412 MHz  
 Test Date: 2014-09-10  
 Note: lower bandedge

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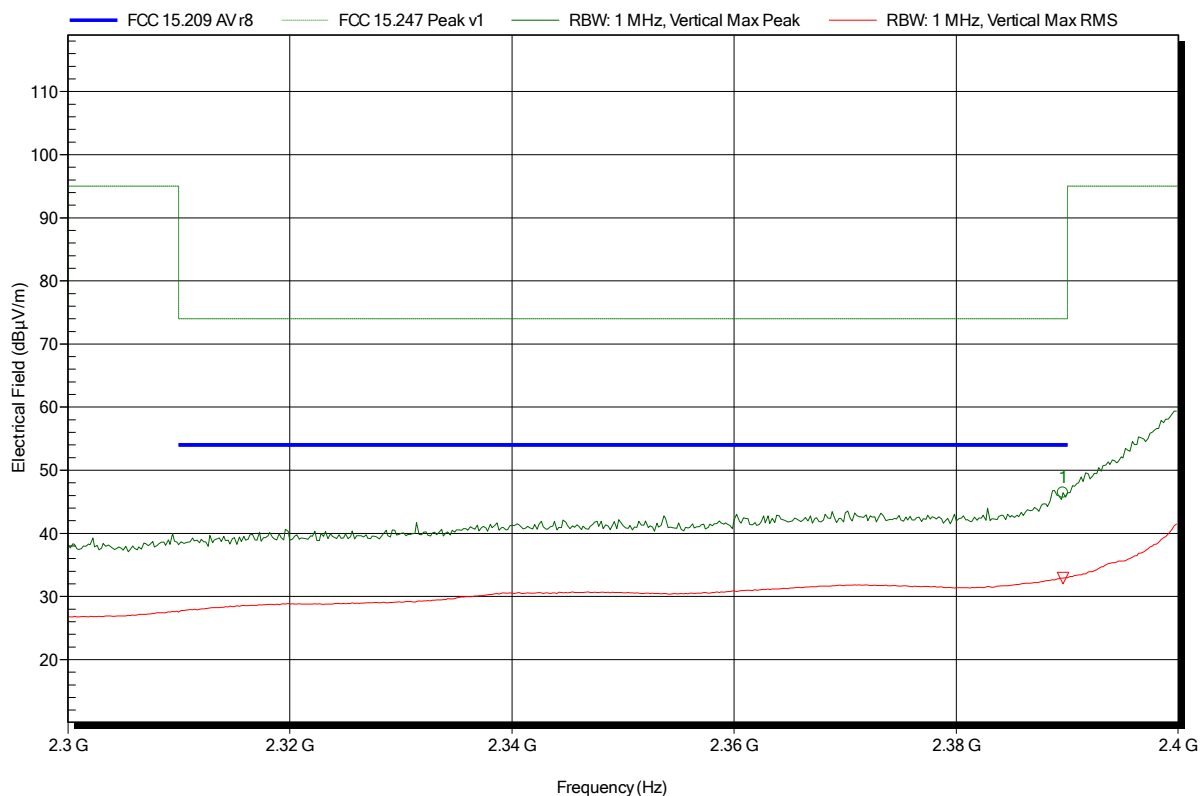
|                        |                      |                         |                              |                     |
|------------------------|----------------------|-------------------------|------------------------------|---------------------|
| Frequency<br>2.388 GHz | Peak<br>47.54 dBµV/m | Peak Limit<br>74 dBµV/m | Peak Difference<br>-26.46 dB | Peak Status<br>Pass |
| Frequency<br>2.388 GHz | RMS<br>32.9 dBµV/m   | RMS Limit<br>54 dBµV/m  | RMS Difference<br>-21.1 dB   | RMS Status<br>Pass  |

## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; OFDM; 6 Mbit/s; 2412 MHz  
 Test Date: 2014-09-10  
 Note: lower bandedge

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|                       |                      |                         |                              |                     |
|-----------------------|----------------------|-------------------------|------------------------------|---------------------|
| Frequency<br>2.39 GHz | Peak<br>46.44 dBµV/m | Peak Limit<br>74 dBµV/m | Peak Difference<br>-27.56 dB | Peak Status<br>Pass |
| Frequency<br>2.39 GHz | RMS<br>32.89 dBµV/m  | RMS Limit<br>54 dBµV/m  | RMS Difference<br>-21.11 dB  | RMS Status<br>Pass  |

Test Report No.: G0M-1407-4002-TFC247WF-V02

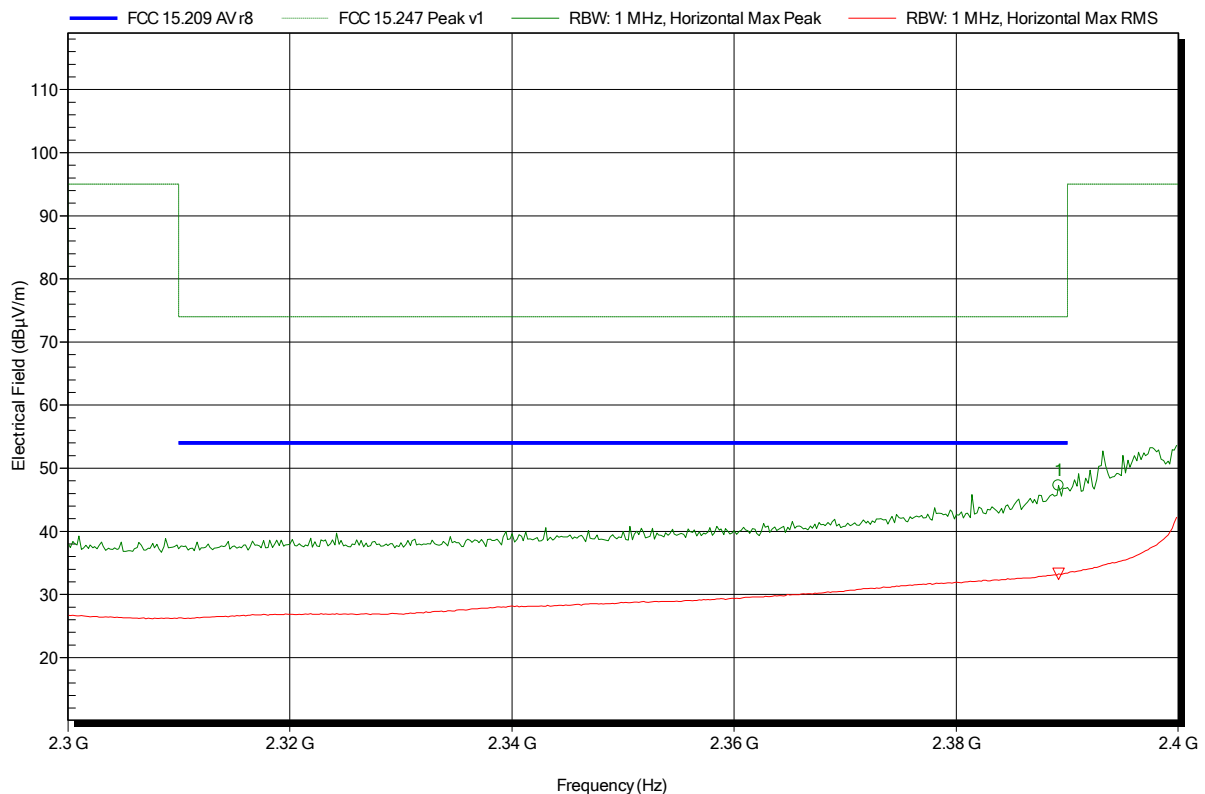
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; HT20; MCS0; 2412 MHz  
 Test Date: 2014-09-10  
 Note: lower bandedge

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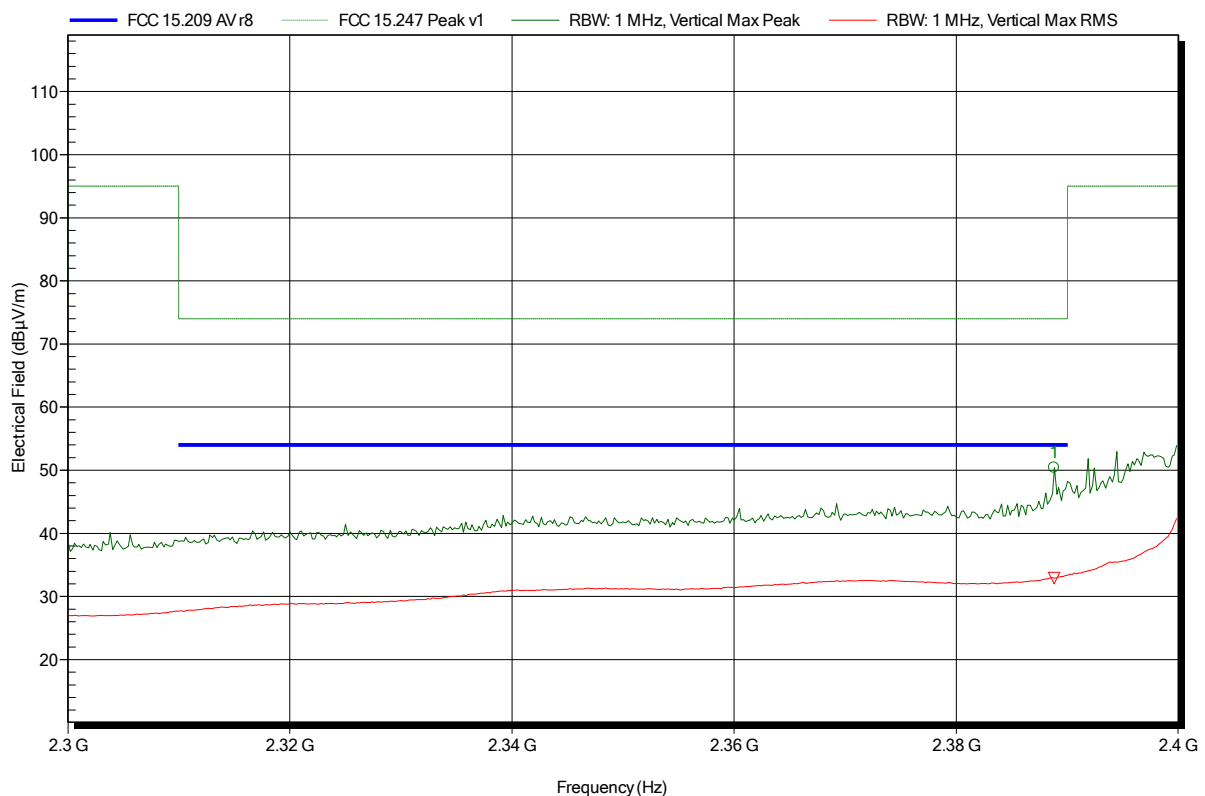
|                        |                      |                         |                              |                     |
|------------------------|----------------------|-------------------------|------------------------------|---------------------|
| Frequency<br>2.389 GHz | Peak<br>47.28 dBµV/m | Peak Limit<br>74 dBµV/m | Peak Difference<br>-26.72 dB | Peak Status<br>Pass |
| Frequency<br>2.389 GHz | RMS<br>33.26 dBµV/m  | RMS Limit<br>54 dBµV/m  | RMS Difference<br>-20.74 dB  | RMS Status<br>Pass  |

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; HT20; MCS0; 2412 MHz  
 Test Date: 2014-09-10  
 Note: lower bandedge

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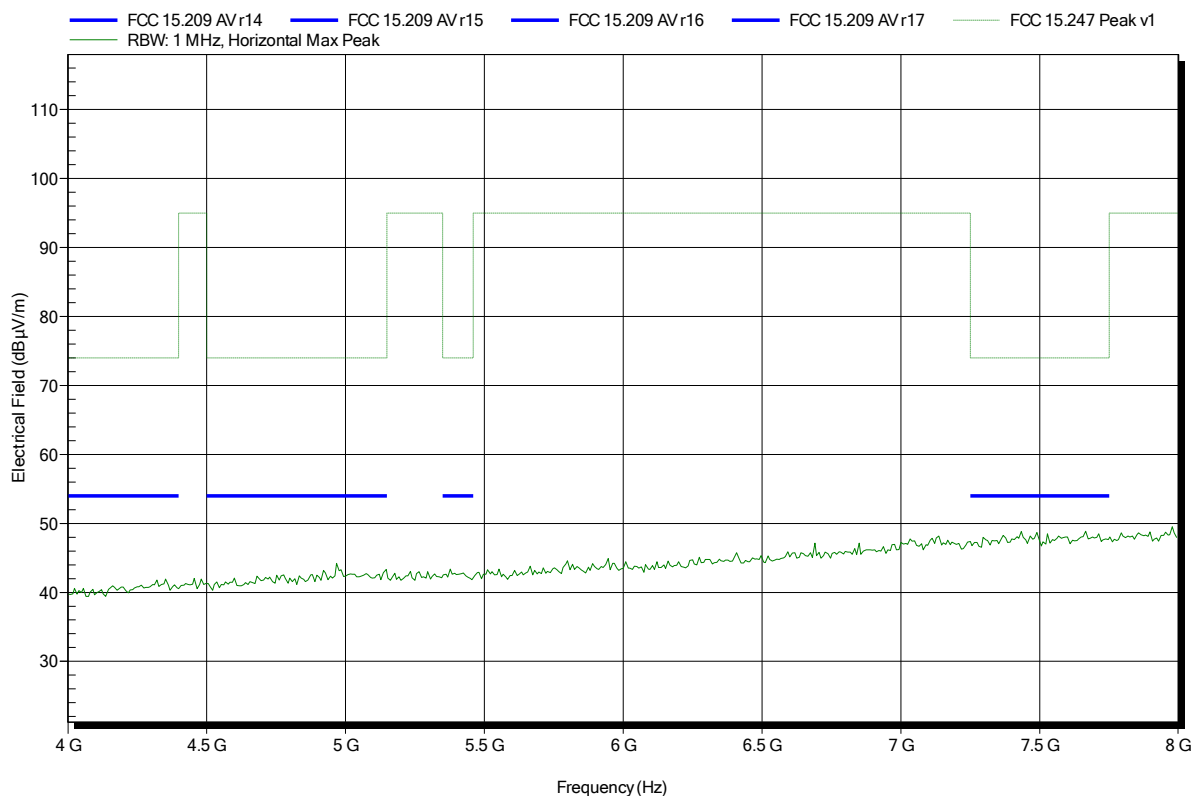
|                        |                      |                         |                              |                     |
|------------------------|----------------------|-------------------------|------------------------------|---------------------|
| Frequency<br>2.389 GHz | Peak<br>50.43 dBµV/m | Peak Limit<br>74 dBµV/m | Peak Difference<br>-23.57 dB | Peak Status<br>Pass |
| Frequency<br>2.389 GHz | RMS<br>32.92 dBµV/m  | RMS Limit<br>54 dBµV/m  | RMS Difference<br>-21.08 dB  | RMS Status<br>Pass  |

## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2412 MHz  
 Test Date: 2014-09-10  
 Note:

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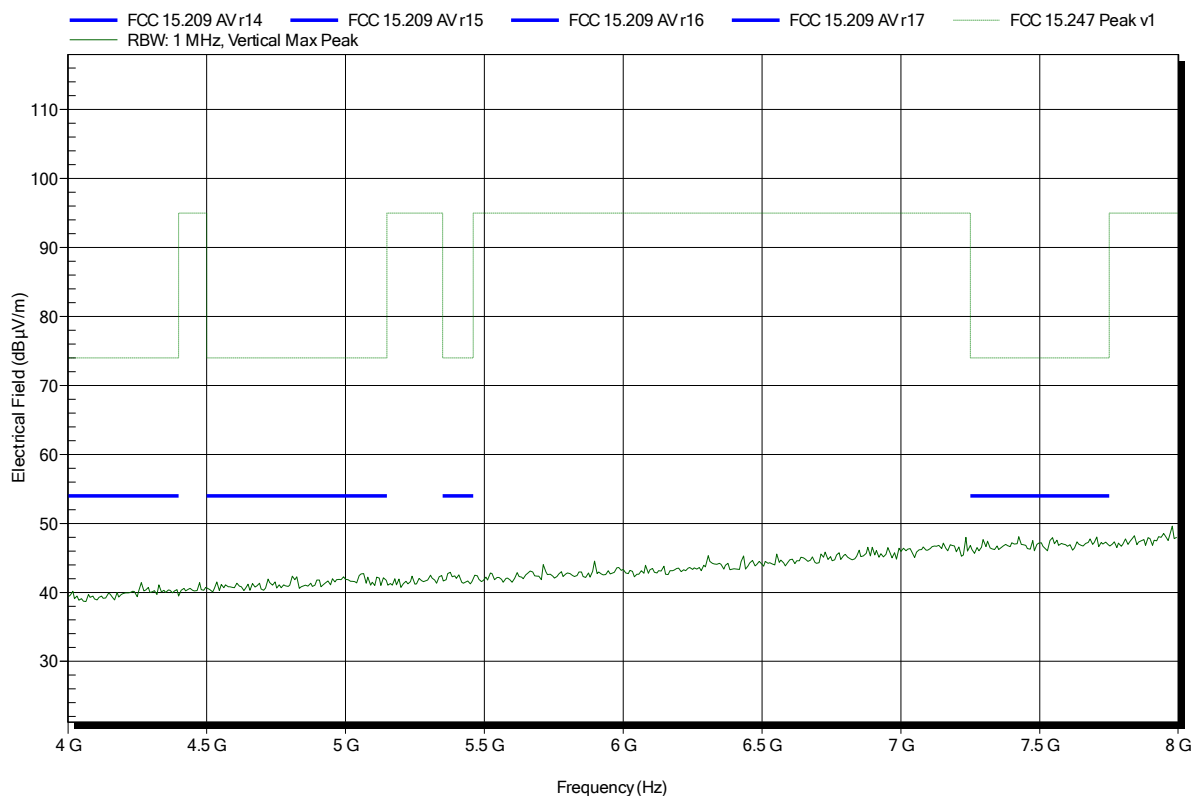


## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2412 MHz  
 Test Date: 2014-09-10  
 Note:

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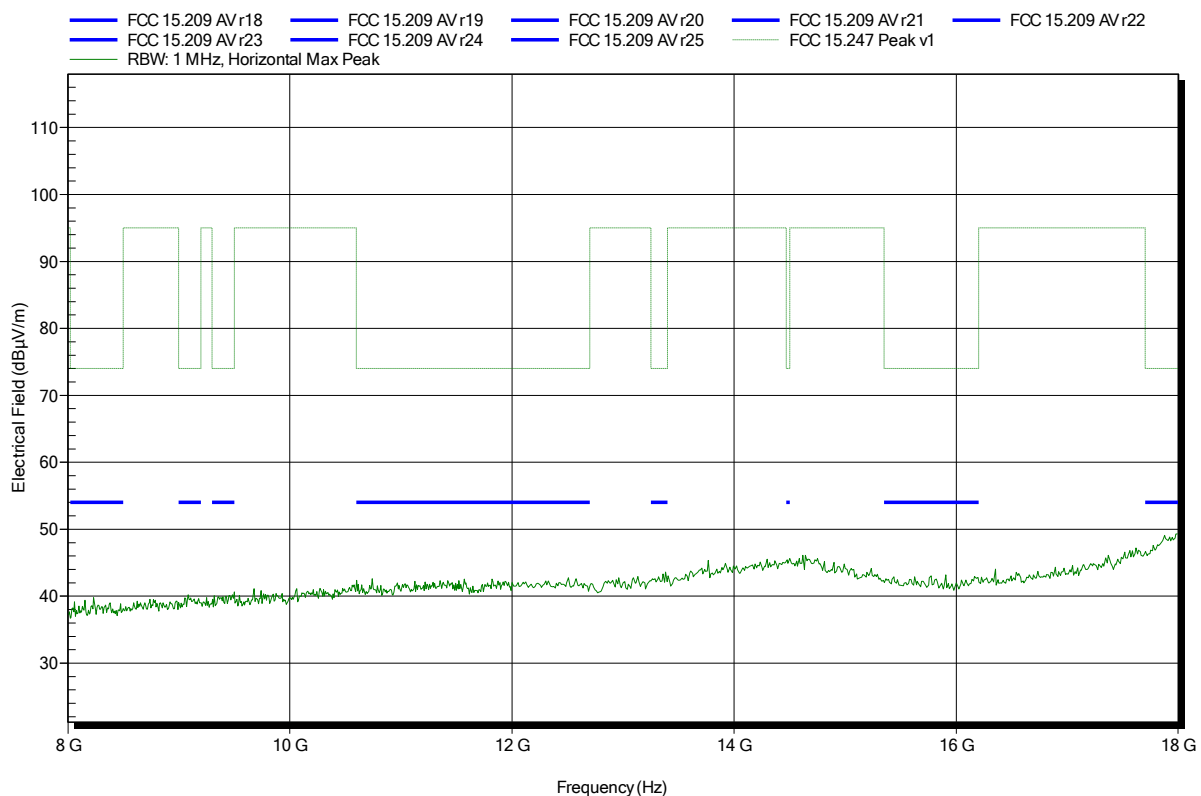


## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1 Mbit/s; 2412 MHz  
 Test Date: 2014-09-10  
 Note:

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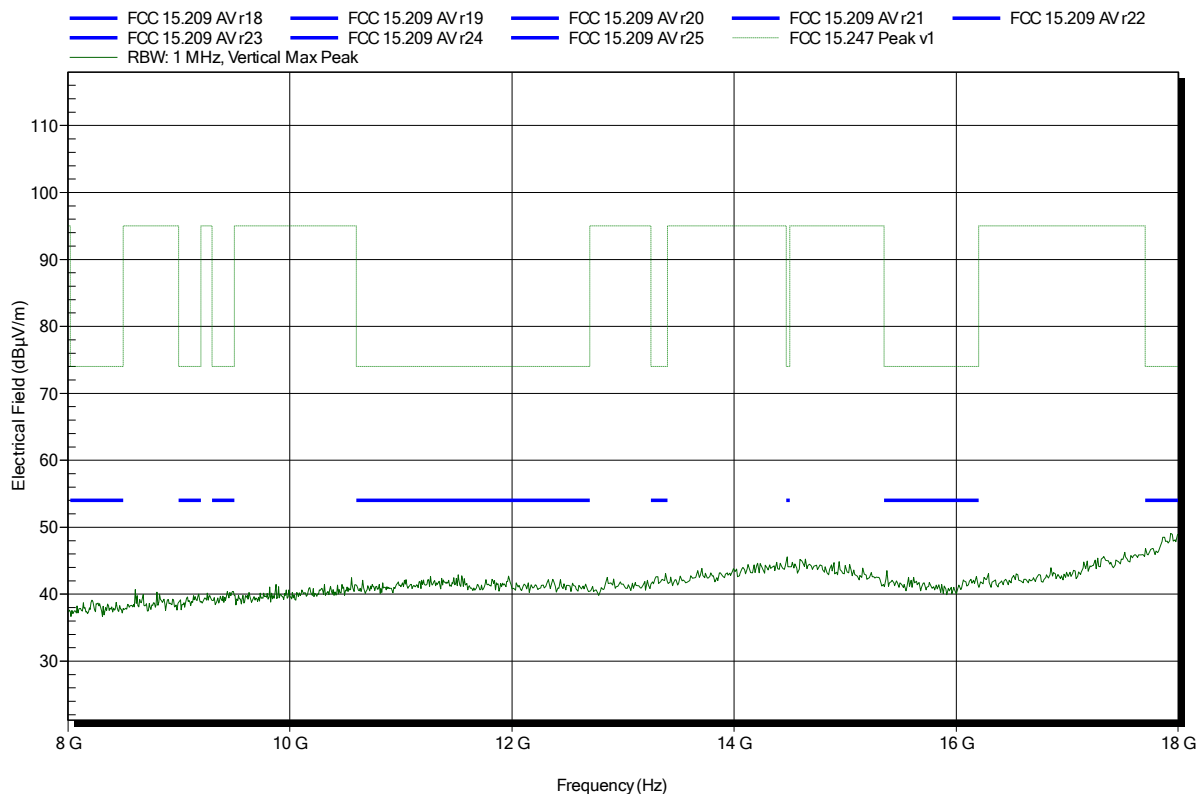


## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1 Mbit/s; 2412 MHz  
 Test Date: 2014-09-10  
 Note:

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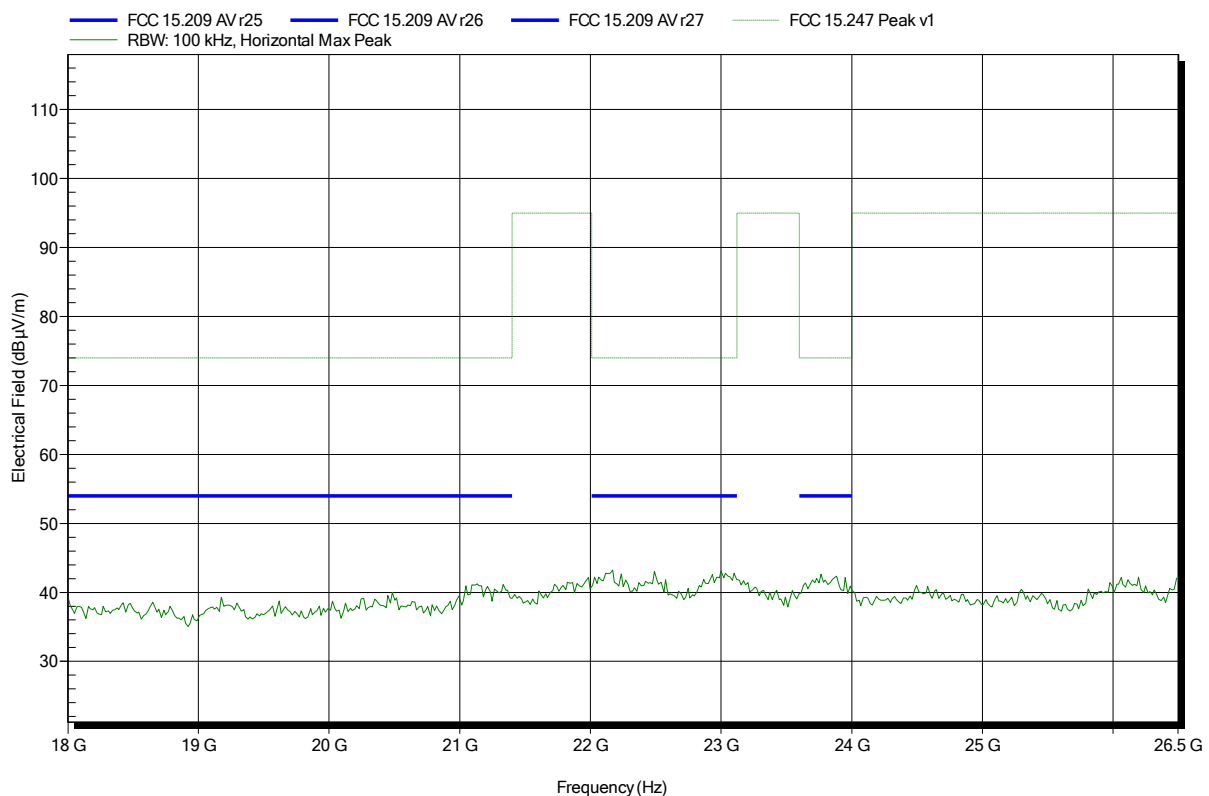


## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 025, Horizontal  
 Measurement distance: 1 m  
 Mode: TX; DSSS; 1 Mbit/s; 2412 MHz  
 Test Date: 2014-09-10  
 Note:

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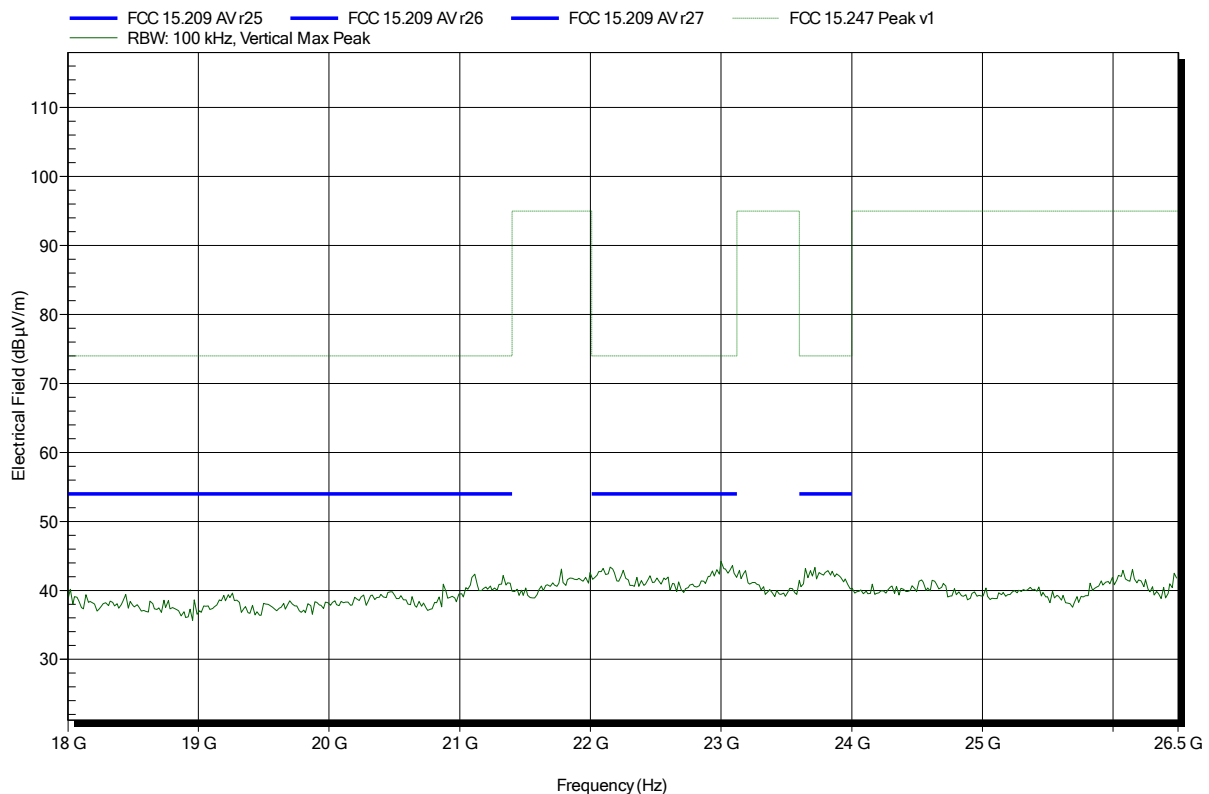


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 025, Vertical  
 Measurement distance: 1 m  
 Mode: TX; DSSS; 1 Mbit/s; 2412 MHz  
 Test Date: 2014-09-10  
 Note:

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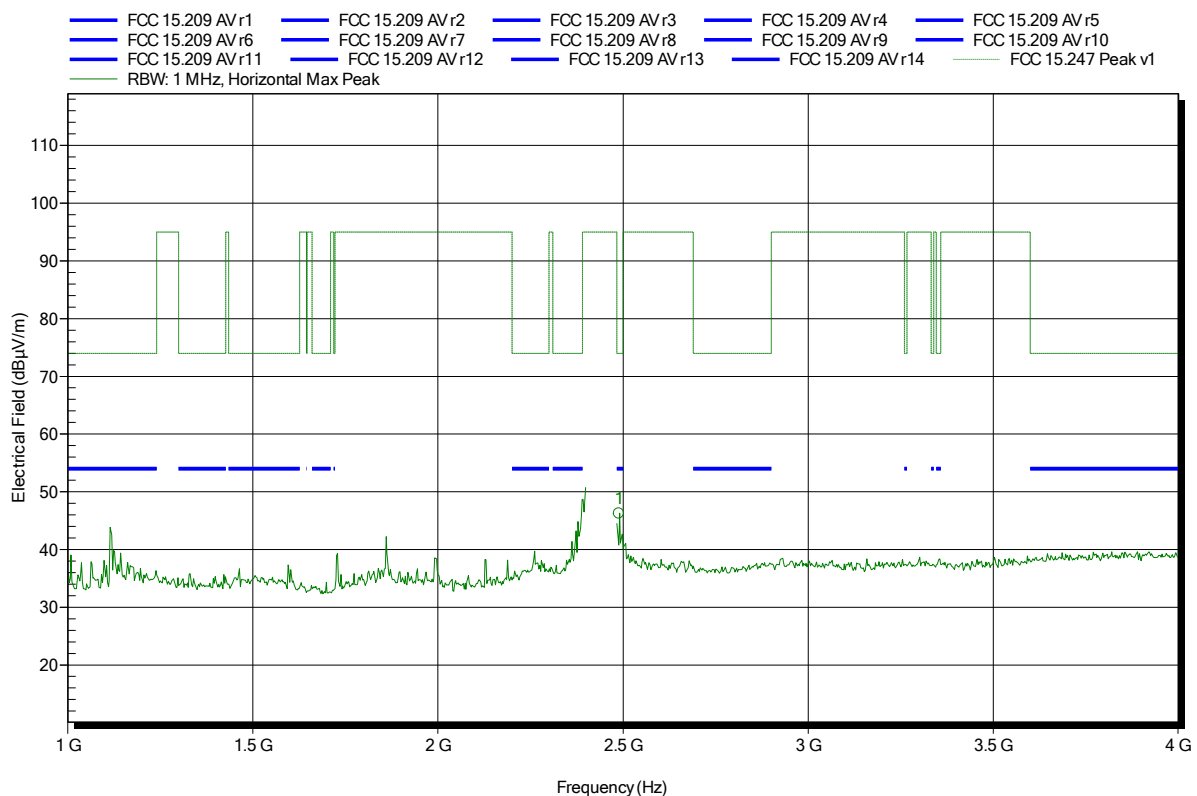


## Spurious emissions according to FCC 15.247

Project number: GOM-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2437 MHz  
 Test Date: 2014-09-10  
 Note:

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| Frequency  | Peak         | Peak Limit | Peak Difference | Peak Status |
|------------|--------------|------------|-----------------|-------------|
| 2.4896 GHz | 46.24 dBμV/m | 74 dBμV/m  | -27.76 dB       | Pass        |

Test Report No.: GOM-1407-4002-TFC247WF-V02

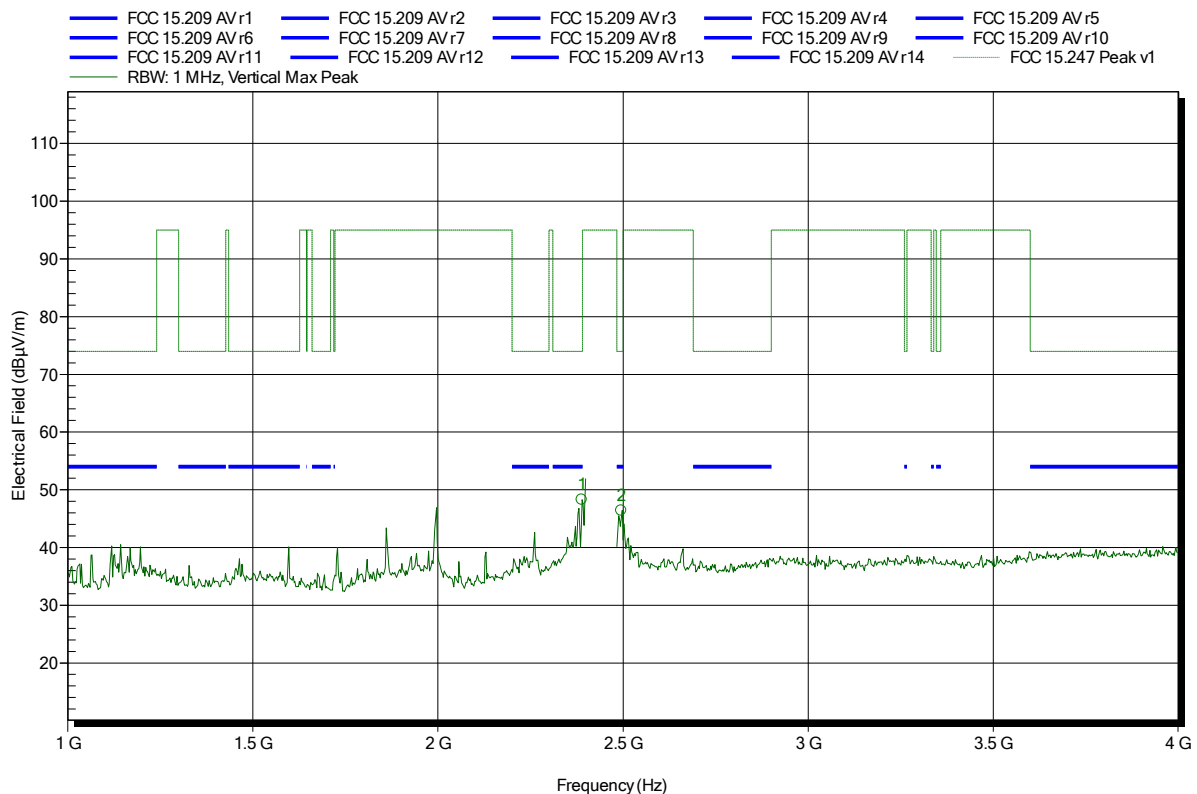
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: GOM-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2437 MHz  
 Test Date: 2014-09-10  
 Note:

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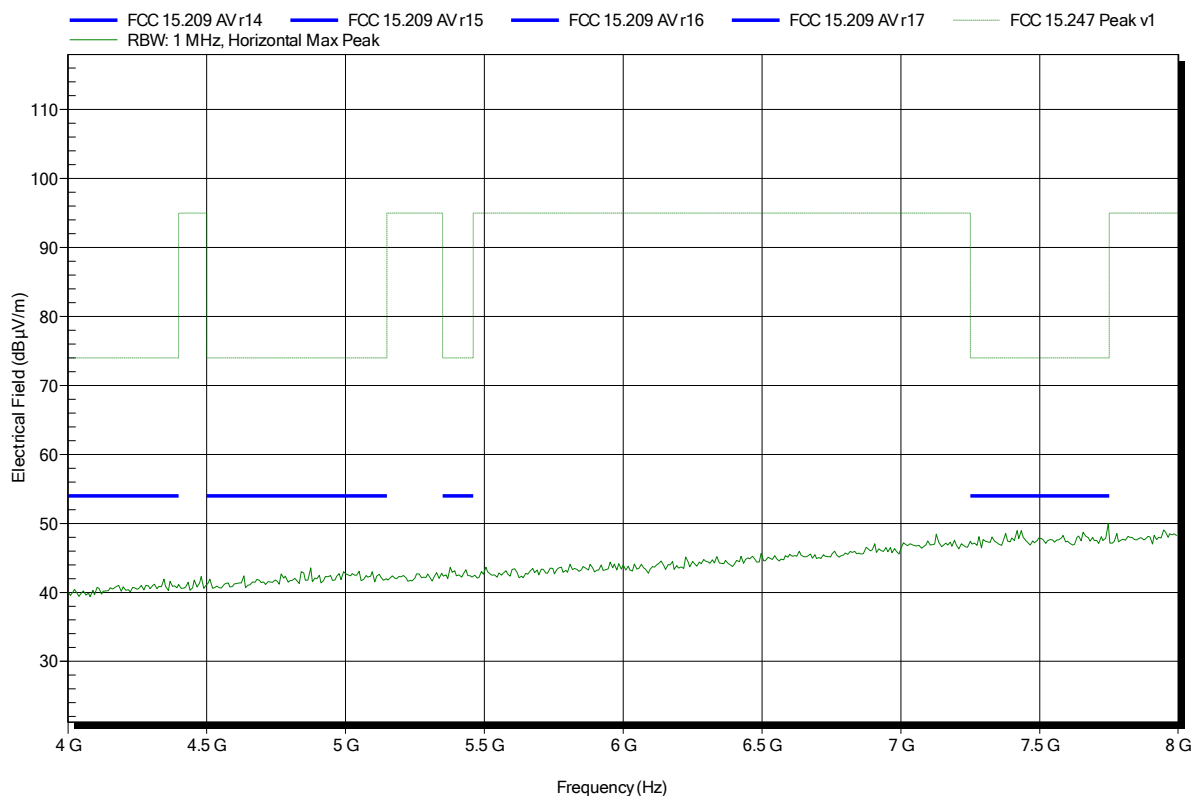
| Frequency  | Peak         | Peak Limit | Peak Difference | Peak Status |
|------------|--------------|------------|-----------------|-------------|
| 2.3888 GHz | 48.27 dBµV/m | 74 dBµV/m  | -25.73 dB       | Pass        |
| 2.4956 GHz | 46.39 dBµV/m | 74 dBµV/m  | -27.61 dB       | Pass        |

## Spurious emissions according to FCC 15.247

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 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2437 MHz  
 Test Date: 2014-09-10  
 Note:

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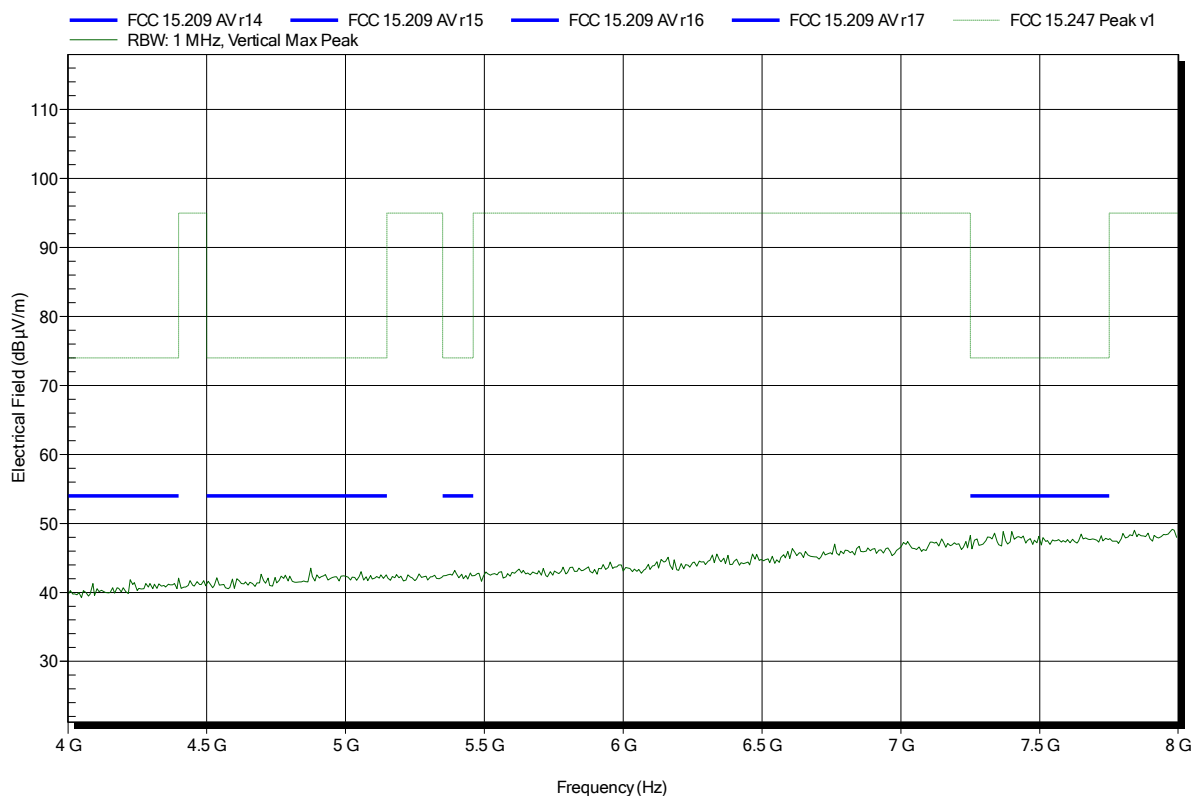


## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2437 MHz  
 Test Date: 2014-09-10  
 Note:

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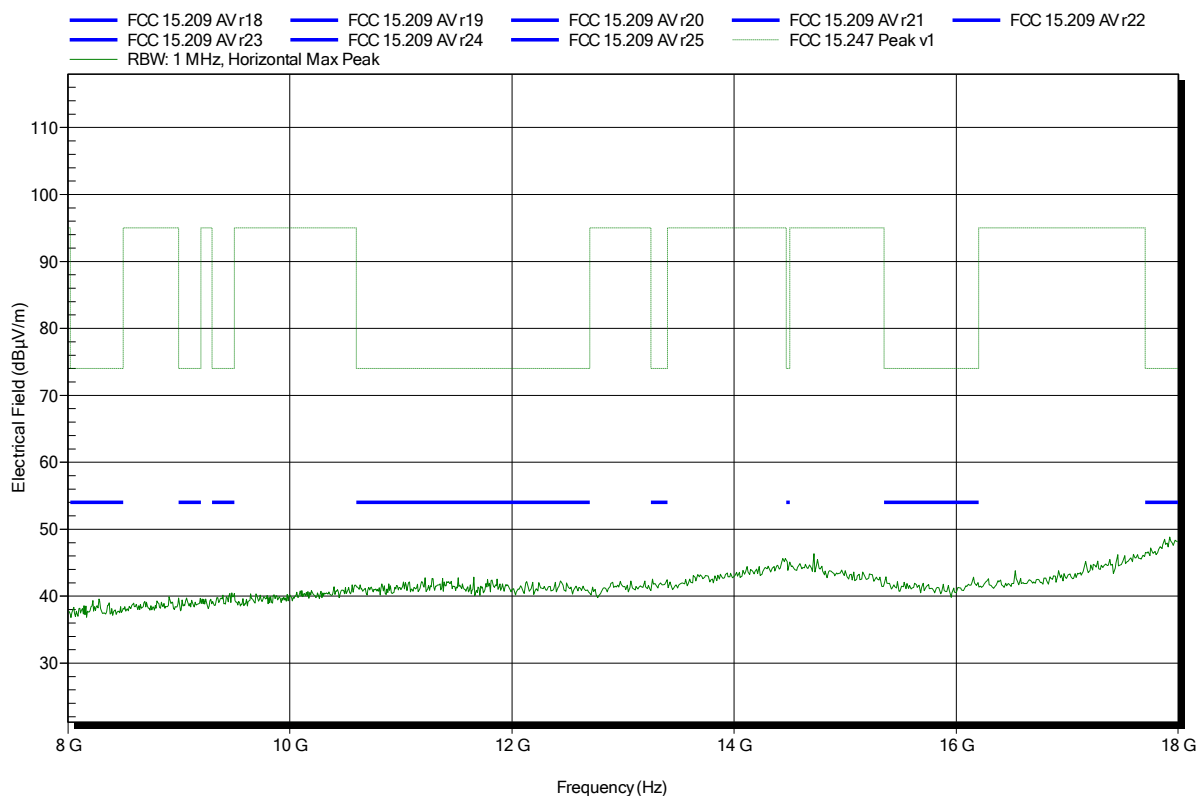


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1 Mbit/s; 2437 MHz  
 Test Date: 2014-09-10  
 Note:

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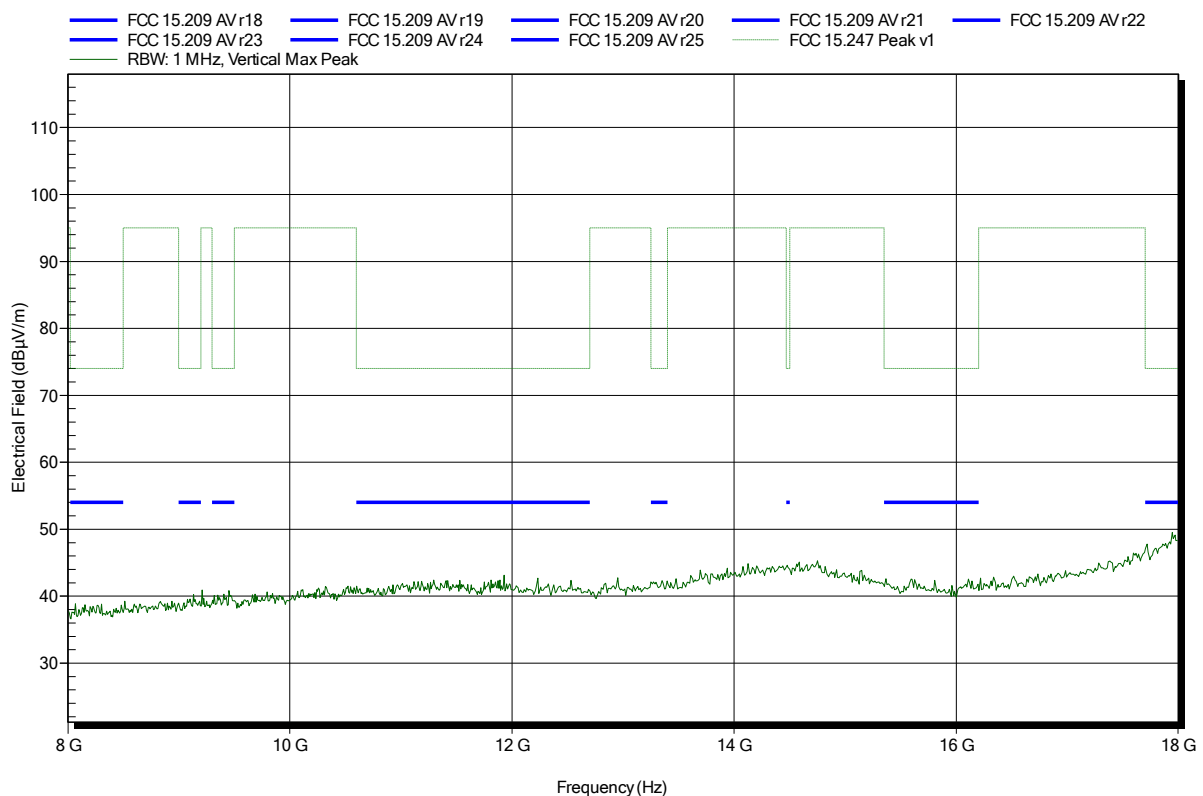


## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1 Mbit/s; 2437 MHz  
 Test Date: 2014-09-10  
 Note:

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Test Report No.: G0M-1407-4002-TFC247WF-V02

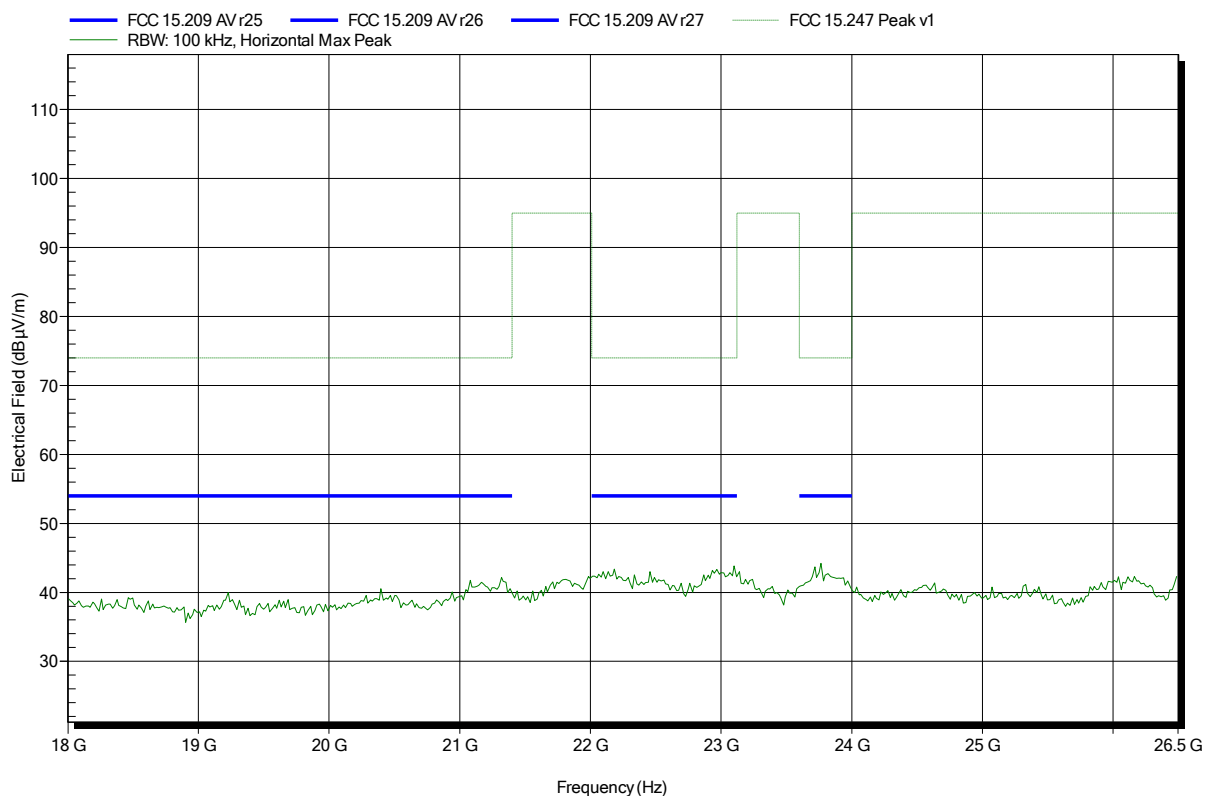
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 025, Horizontal  
 Measurement distance: 1 m  
 Mode: TX; DSSS; 1 Mbit/s; 2437 MHz  
 Test Date: 2014-09-10  
 Note:

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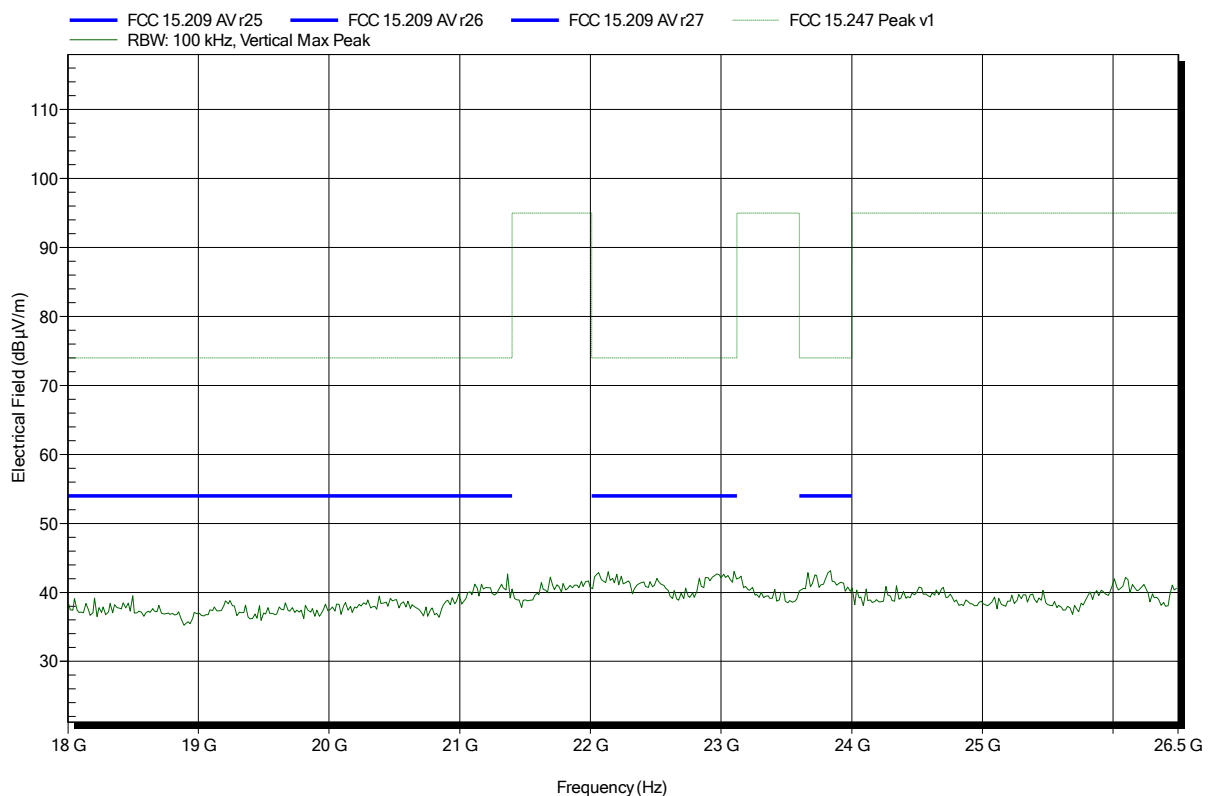


## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 025, Vertical  
 Measurement distance: 1 m  
 Mode: TX; DSSS; 1 Mbit/s; 2437 MHz  
 Test Date: 2014-09-10  
 Note:

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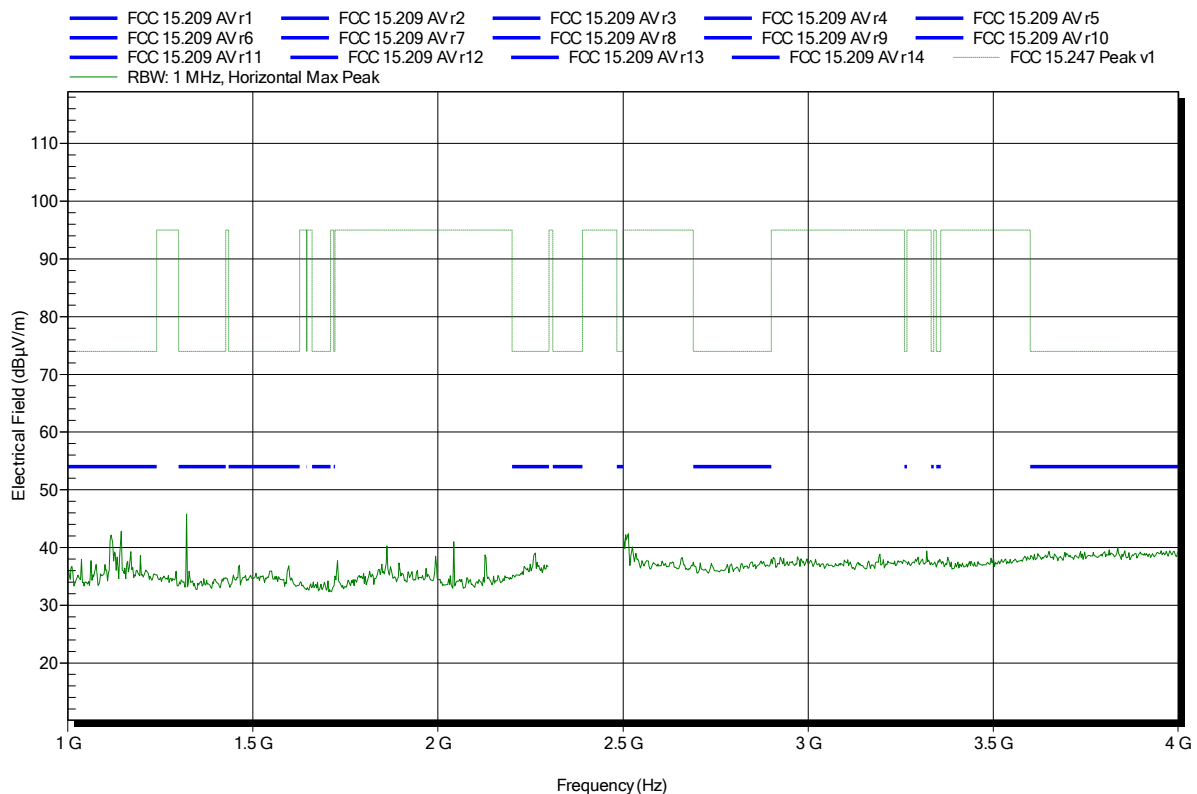


## Spurious emissions according to FCC 15.247

Project number: GOM-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2462 MHz  
 Test Date: 2014-09-10  
 Note:

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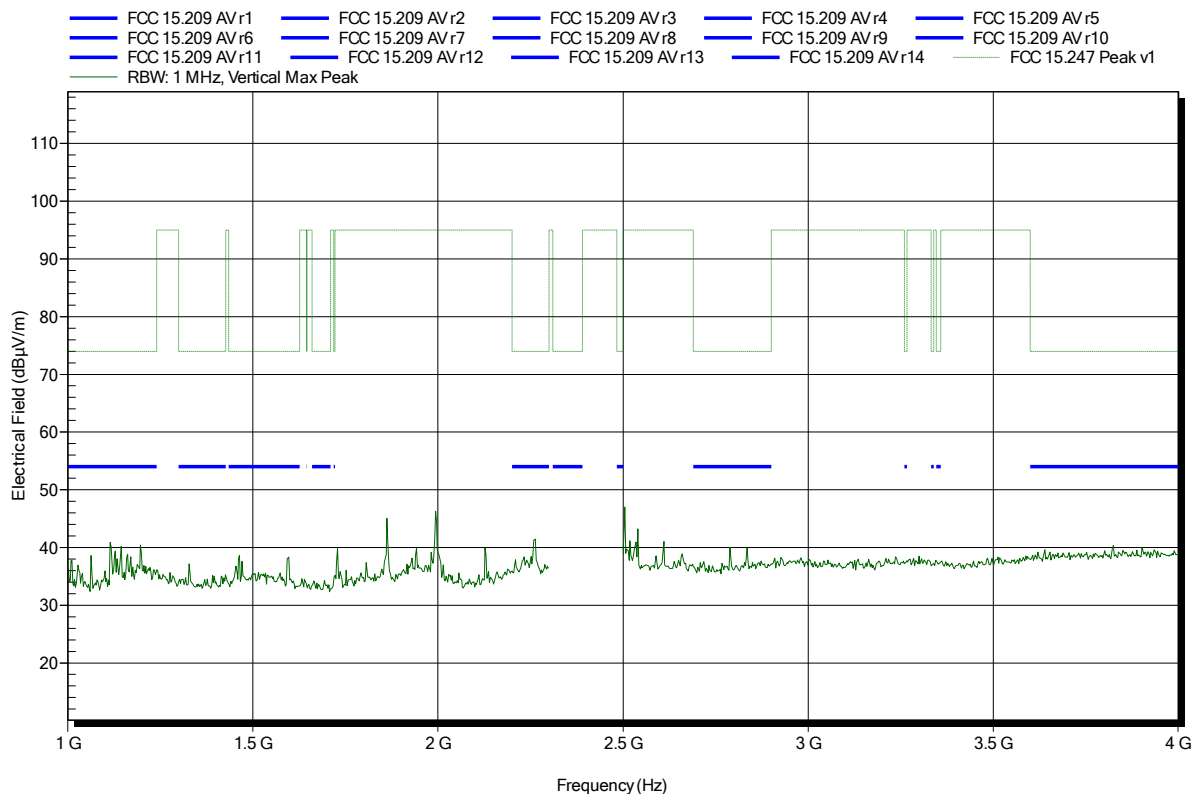


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2462 MHz  
 Test Date: 2014-09-10  
 Note:

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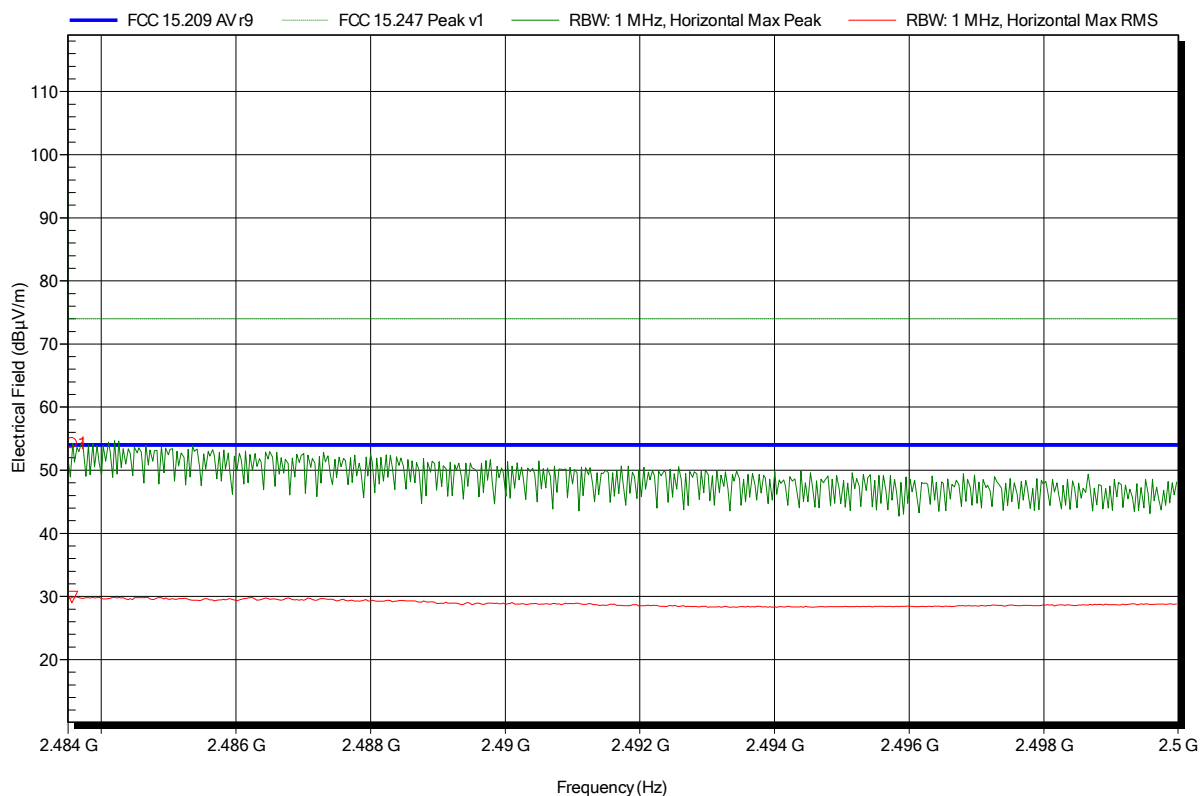


## Spurious emissions according to FCC 15.247

Project number: GOM-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2462 MHz  
 Test Date: 2014-09-10  
 Note: upper bandedge

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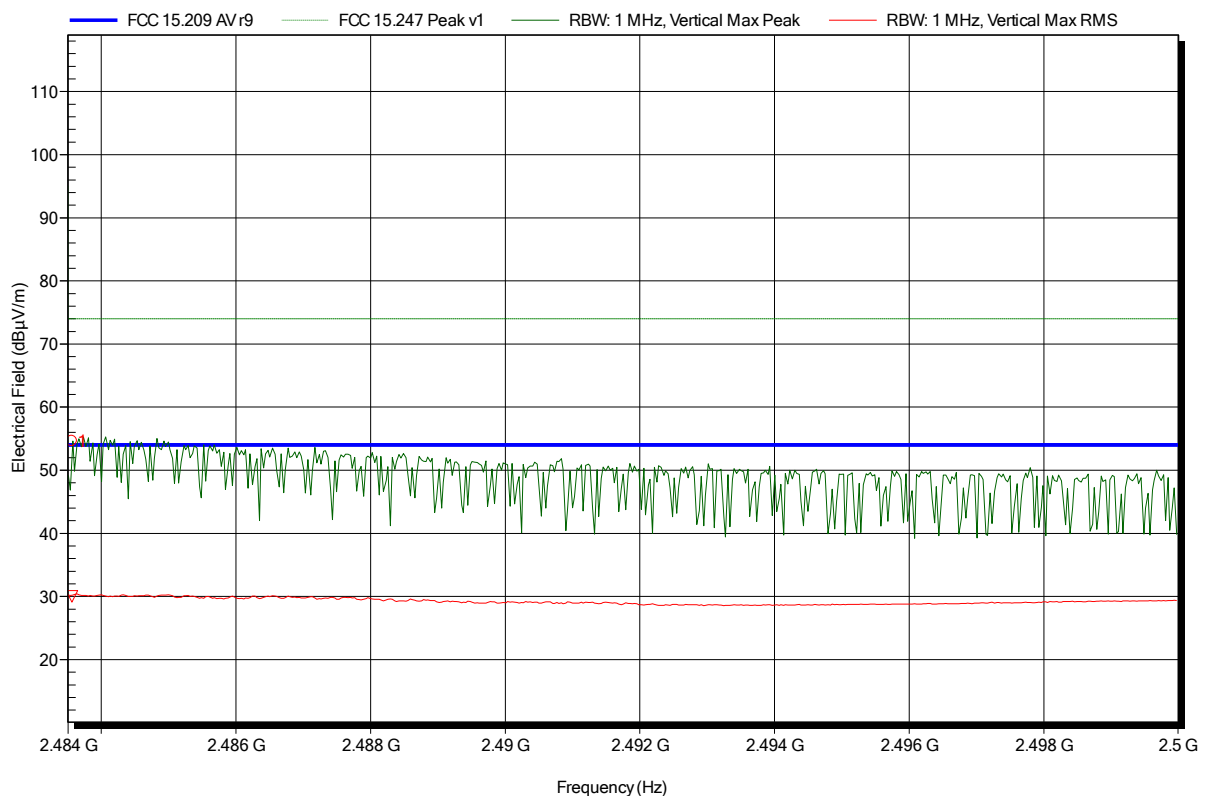
|                         |                      |                         |                              |                     |
|-------------------------|----------------------|-------------------------|------------------------------|---------------------|
| Frequency<br>2.4836 GHz | Peak<br>54.28 dBµV/m | Peak Limit<br>74 dBµV/m | Peak Difference<br>-19.72 dB | Peak Status<br>Pass |
| Frequency<br>2.4836 GHz | RMS<br>29.93 dBµV/m  | RMS Limit<br>54 dBµV/m  | RMS Difference<br>-24.07 dB  | RMS Status<br>Pass  |

## Spurious emissions according to FCC 15.247

Project number: GOM-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2462 MHz  
 Test Date: 2014-09-10  
 Note: upper bandedge

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|                         |                      |                         |                              |                     |
|-------------------------|----------------------|-------------------------|------------------------------|---------------------|
| Frequency<br>2.4836 GHz | Peak<br>54.66 dBµV/m | Peak Limit<br>74 dBµV/m | Peak Difference<br>-19.34 dB | Peak Status<br>Pass |
| Frequency<br>2.4836 GHz | RMS<br>30.04 dBµV/m  | RMS Limit<br>54 dBµV/m  | RMS Difference<br>-23.96 dB  | RMS Status<br>Pass  |

Test Report No.: GOM-1407-4002-TFC247WF-V02

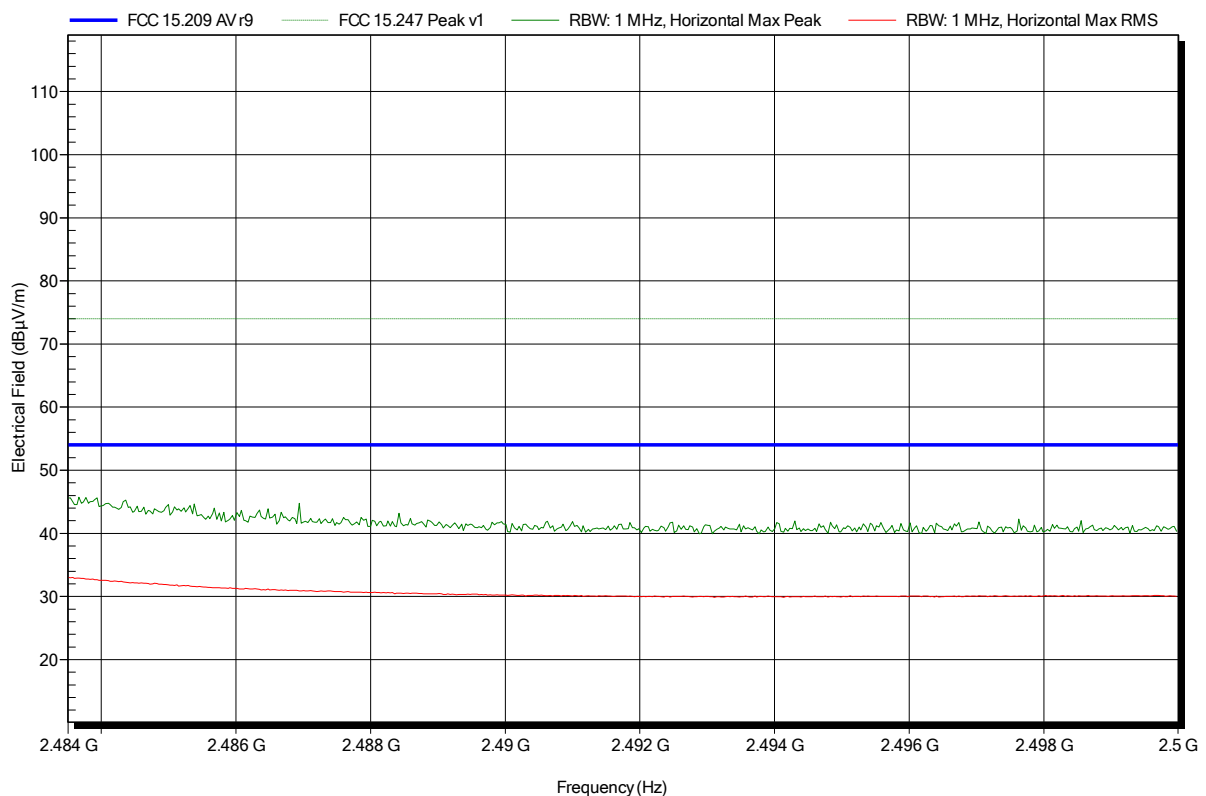
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; OFDM; 6 Mbit/s; 2462 MHz  
 Test Date: 2014-09-10  
 Note: upper bandedge

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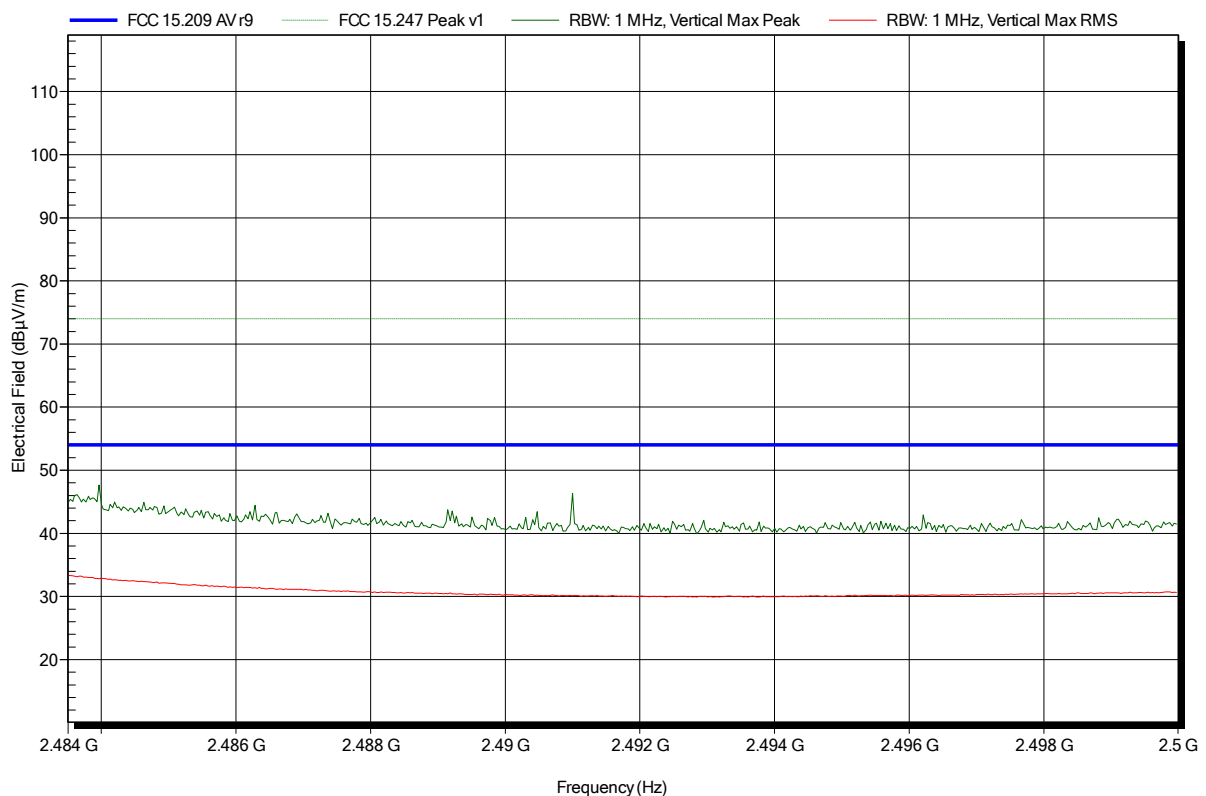


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; OFDM; 6 Mbit/s; 2462 MHz  
 Test Date: 2014-09-10  
 Note: upper bandedge

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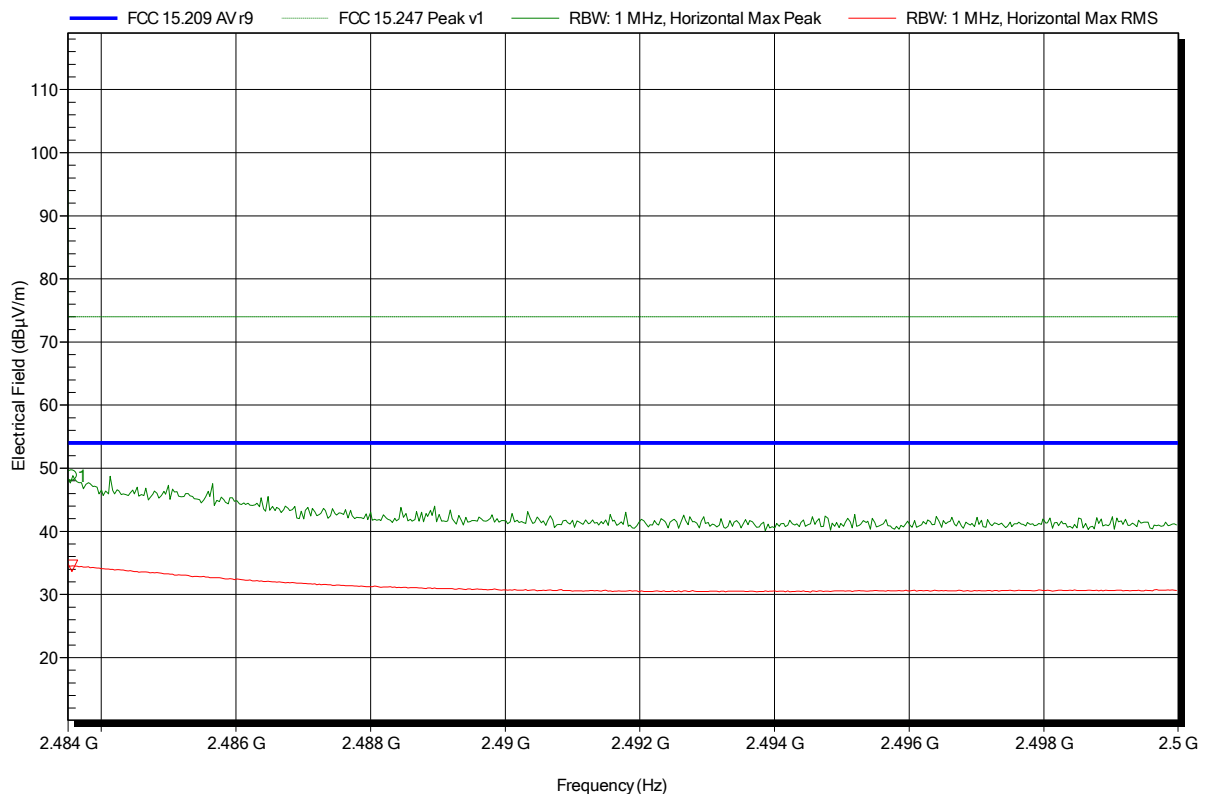


## Spurious emissions according to FCC 15.247

Project number: GOM-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; HT20; MCS0; 2462 MHz  
 Test Date: 2014-09-10  
 Note: upper bandedge

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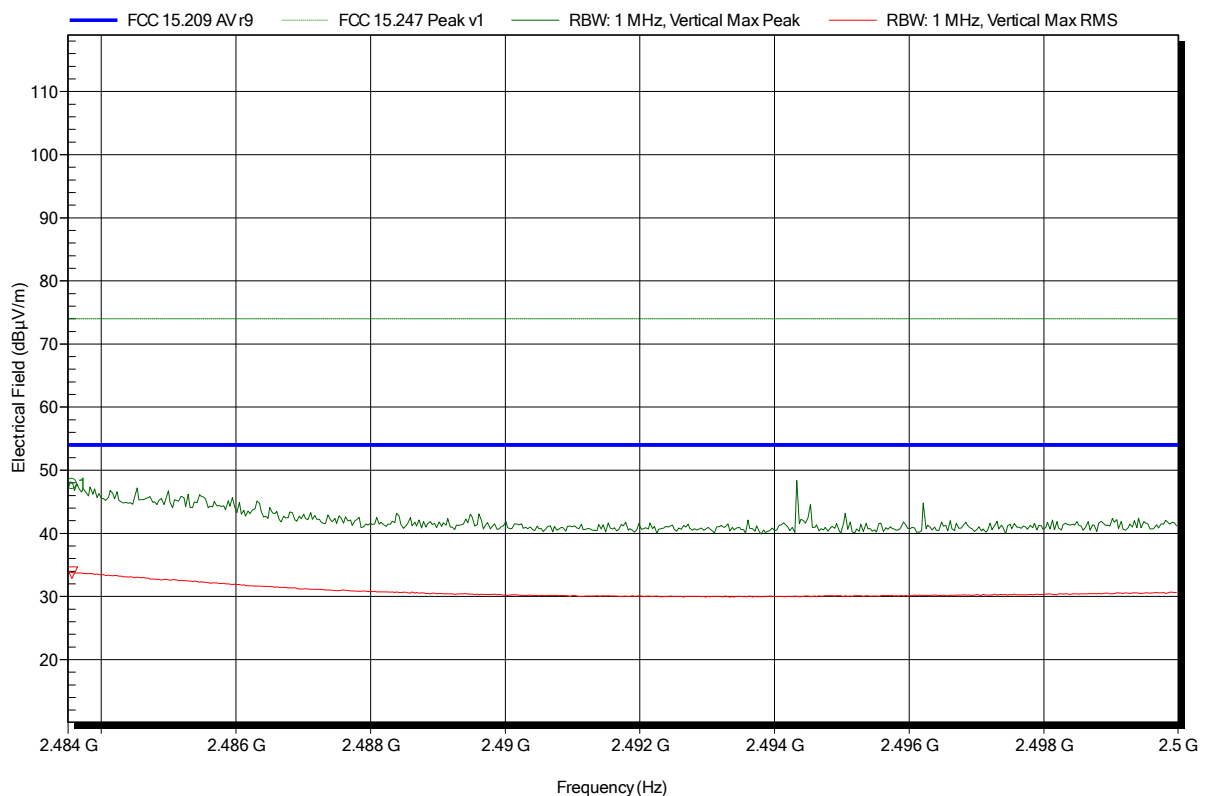


## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; HT20; MCS0; 2462 MHz  
 Test Date: 2014-09-10  
 Note: upper bandedge

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|                         |                      |                         |                              |                     |
|-------------------------|----------------------|-------------------------|------------------------------|---------------------|
| Frequency<br>2.4836 GHz | Peak<br>47.84 dBµV/m | Peak Limit<br>74 dBµV/m | Peak Difference<br>-26.16 dB | Peak Status<br>Pass |
| Frequency<br>2.4836 GHz | RMS<br>33.8 dBµV/m   | RMS Limit<br>54 dBµV/m  | RMS Difference<br>-20.2 dB   | RMS Status<br>Pass  |

Test Report No.: G0M-1407-4002-TFC247WF-V02

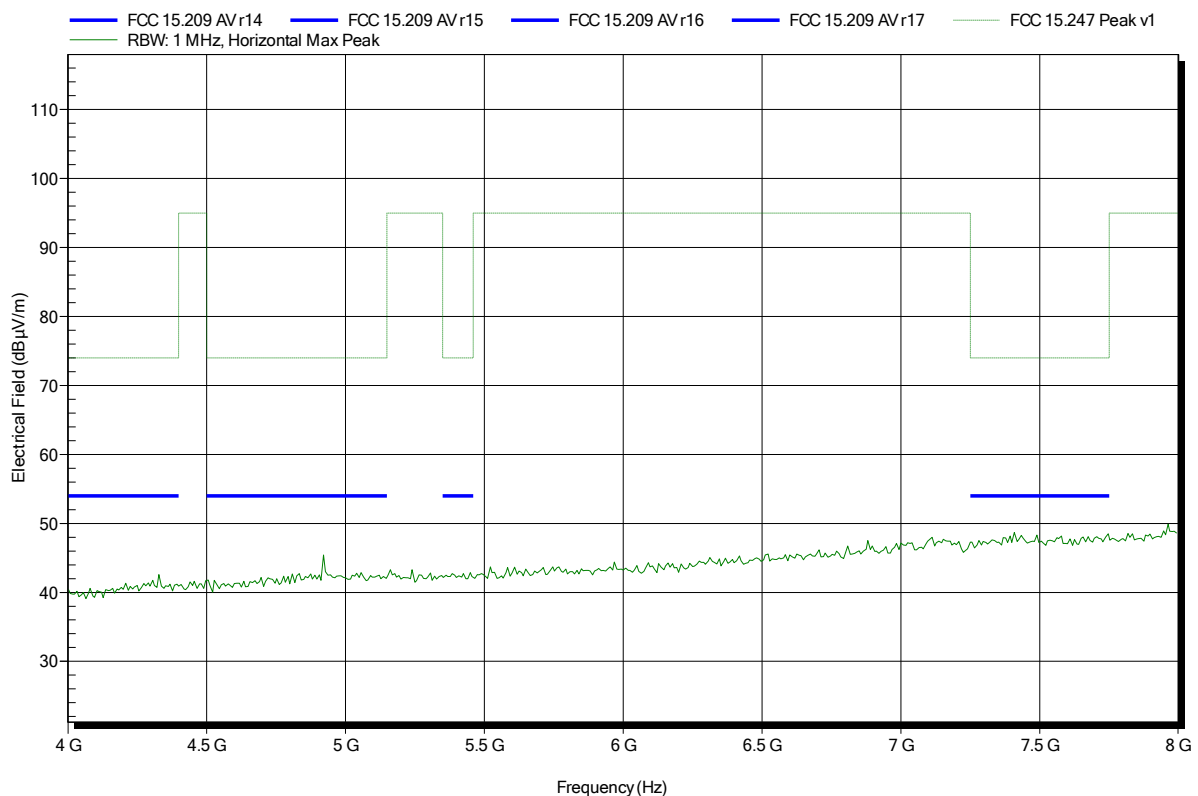
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2462 MHz  
 Test Date: 2014-09-10  
 Note:

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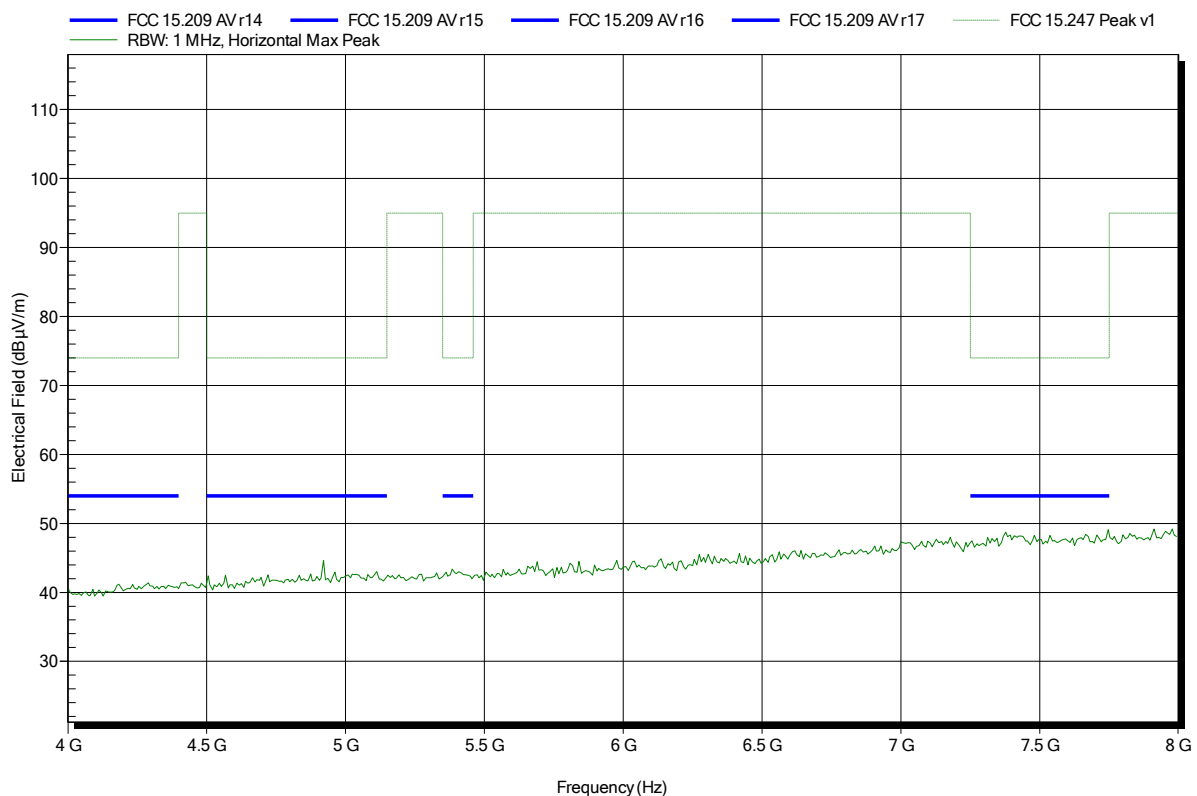


## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1 Mbit/s; 2462 MHz  
 Test Date: 2014-09-10  
 Note:

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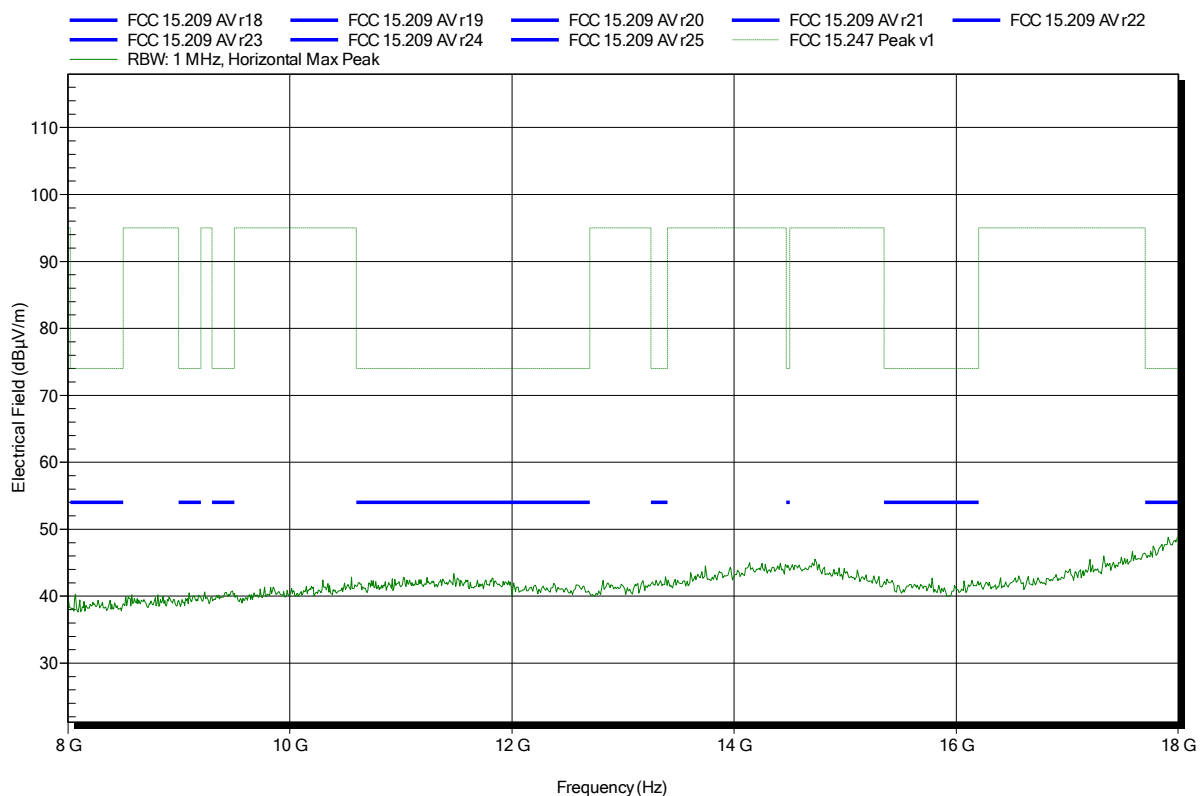


## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1 Mbit/s; 2462 MHz  
 Test Date: 2014-09-10  
 Note:

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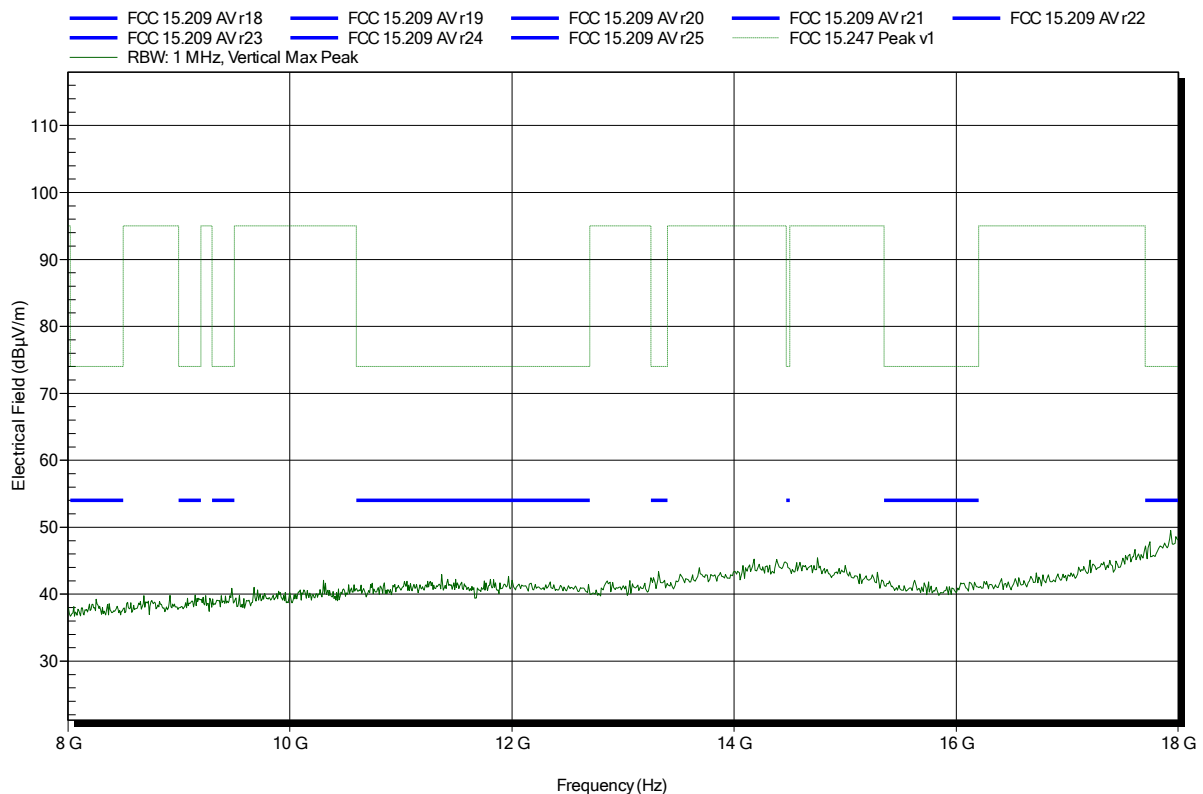


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1 Mbit/s; 2462 MHz  
 Test Date: 2014-09-10  
 Note:

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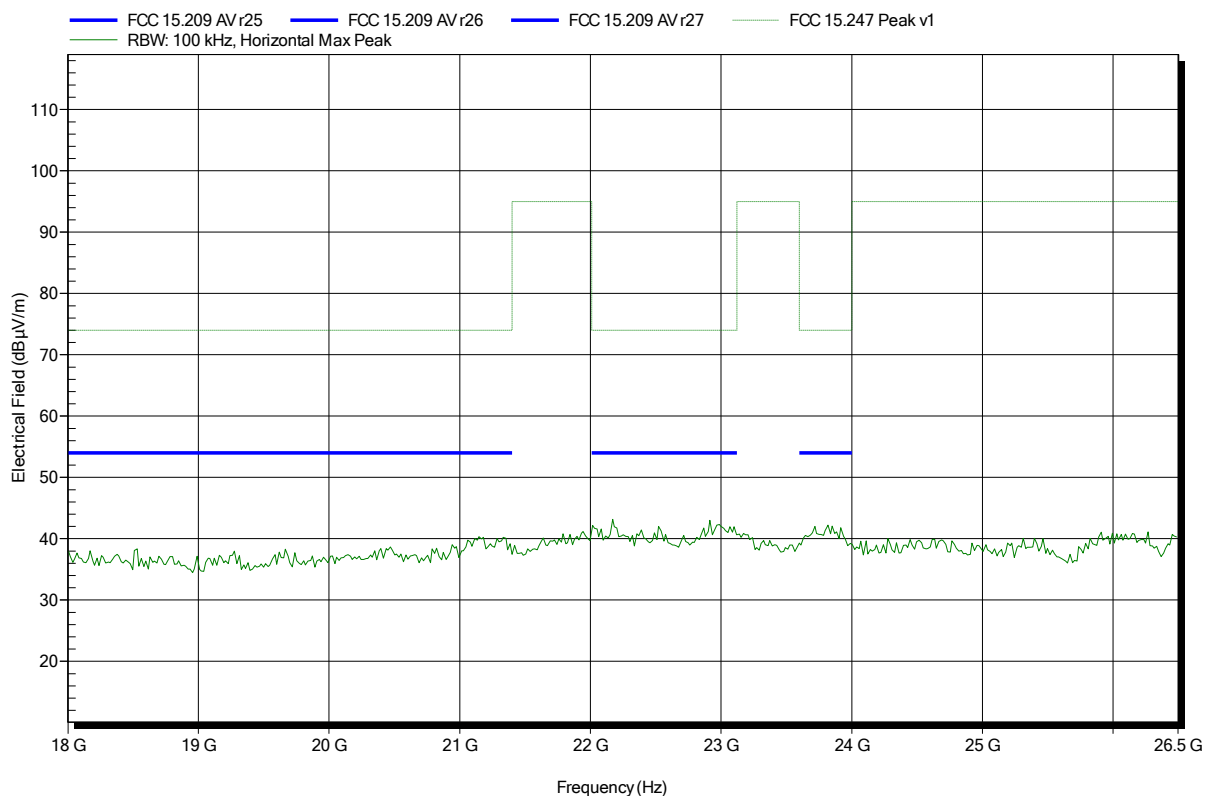


## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 025, Horizontal  
 Measurement distance: 1 m  
 Mode: TX; DSSS; 1 Mbit/s; 2462 MHz  
 Test Date: 2014-09-10  
 Note:

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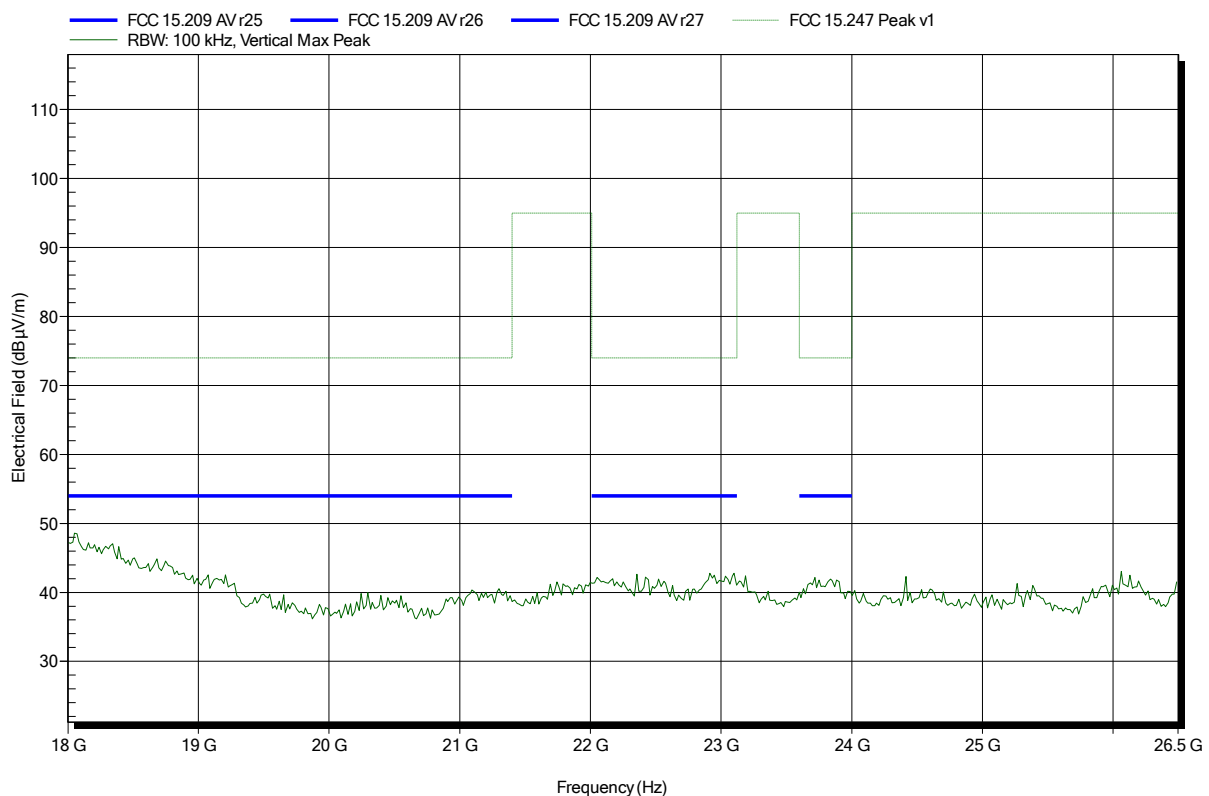


## Spurious emissions according to FCC 15.247

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 025, Vertical  
 Measurement distance: 1 m  
 Mode: TX; DSSS; 1 Mbit/s; 2462 MHz  
 Test Date: 2014-09-10  
 Note:

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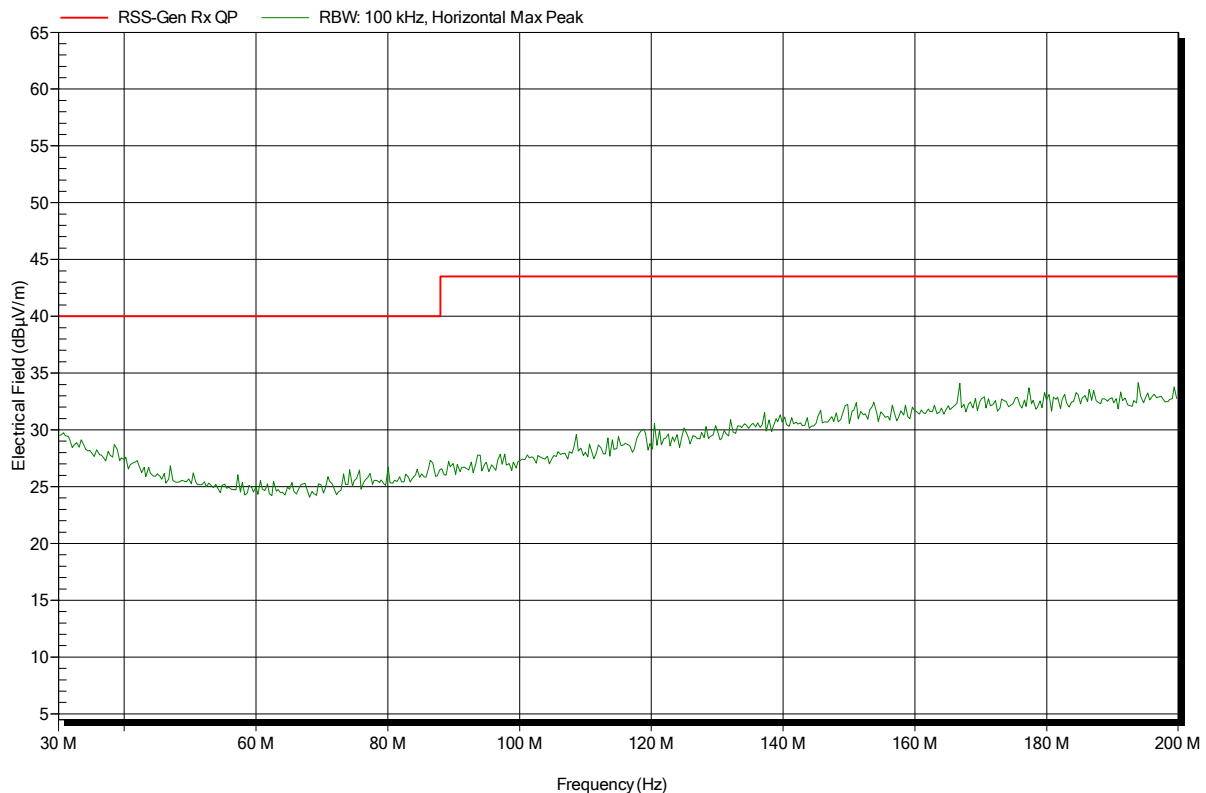
## ANNEX B Receiver radiated spurious emissions

### Spurious emissions according to RSS-GEN

Project number: G0M-1407-4002

|                       |                                            |
|-----------------------|--------------------------------------------|
| Applicant:            | Leica Geosystems                           |
| EUT Name:             | Laser Distance Meter                       |
| Model:                | Leica DISTO S910                           |
| Test Site:            | Eurofins Product Service GmbH              |
| Operator:             | Mr. Treffke                                |
| Test Conditions:      | Tnom: 25°C, Vnom: 3.6 V DC lithium battery |
| Antenna:              | Rohde & Schwarz HK 116, Horizontal         |
| Measurement distance: | 3 m                                        |
| Mode:                 | RX; WLAN; 2437 MHz                         |
| Test Date:            | 2014-09-10                                 |
| Note:                 |                                            |

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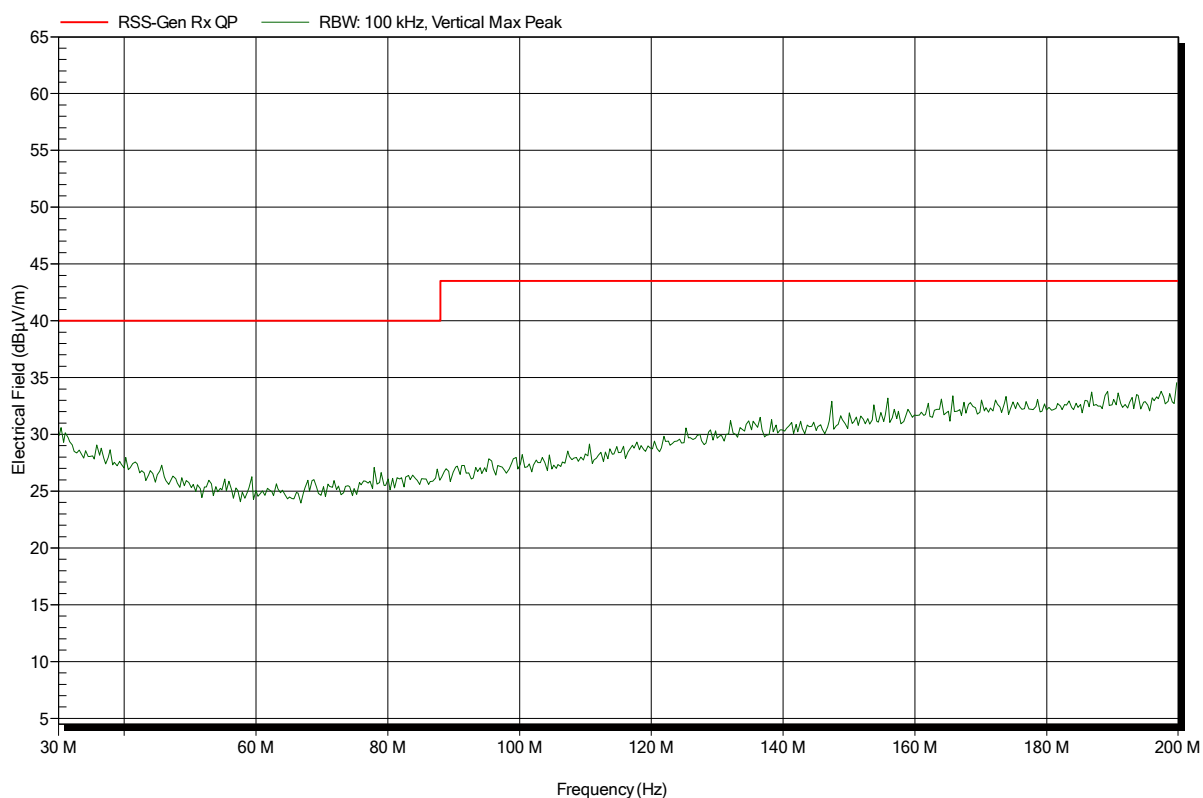


## Spurious emissions according to RSS-GEN

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Rohde & Schwarz HK 116, Vertical  
 Measurement distance: 3 m  
 Mode: RX; WLAN; 2437 MHz  
 Test Date: 2014-09-10  
 Note:

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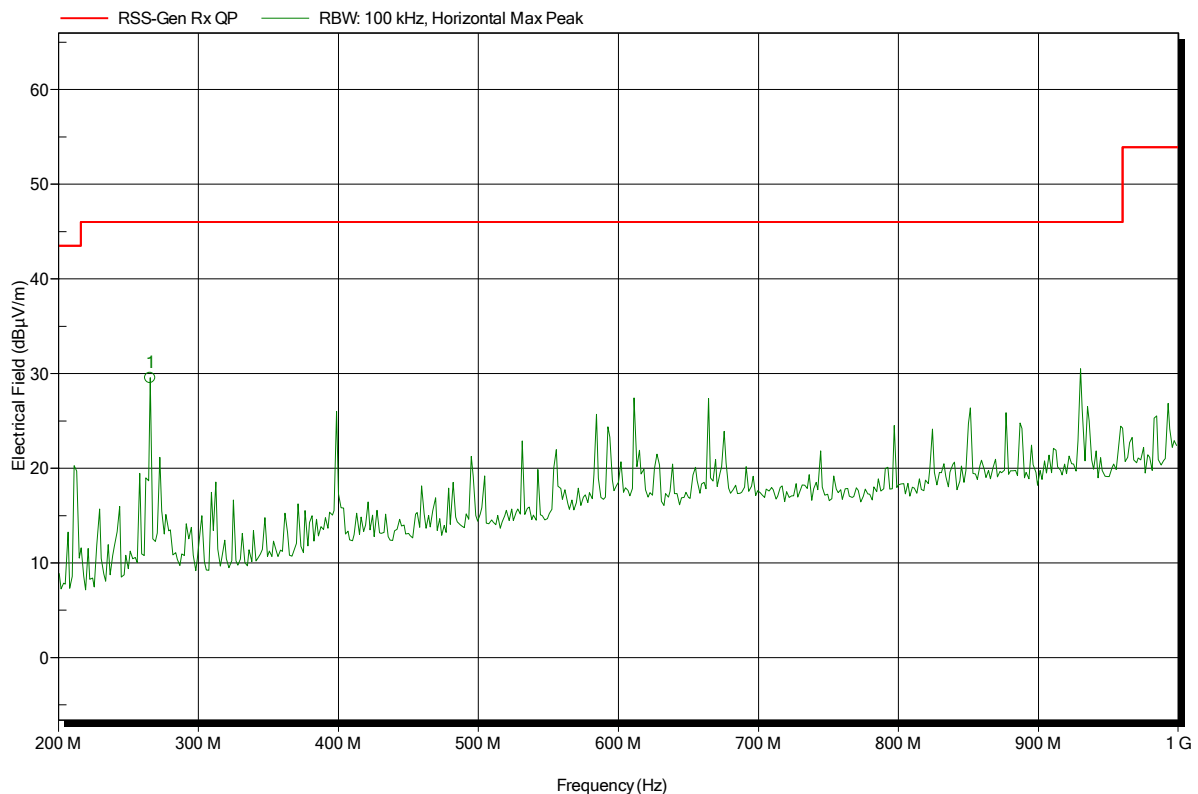


## Spurious emissions according to RSS-GEN

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 223, Horizontal  
 Measurement distance: 3 m  
 Mode: RX; WLAN; 2437 MHz  
 Test Date: 2014-09-10  
 Note:

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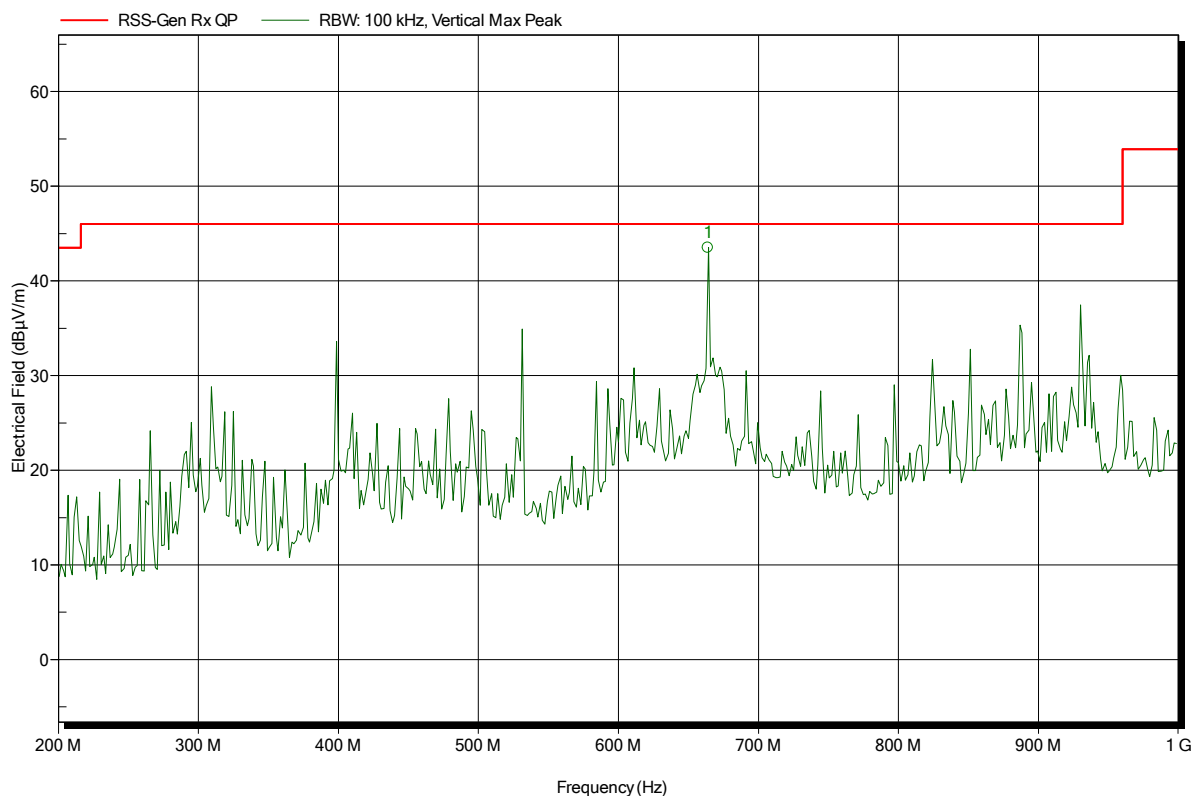
| Frequency | Peak         | Peak Limit | Peak Difference | Status |
|-----------|--------------|------------|-----------------|--------|
| 265.6 MHz | 29.55 dBµV/m | 46 dBµV/m  | -16.45 dB       | Pass   |

## Spurious emissions according to RSS-GEN

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 223, Vertical  
 Measurement distance: 3 m  
 Mode: RX; WLAN; 2437 MHz  
 Test Date: 2014-09-10  
 Note:

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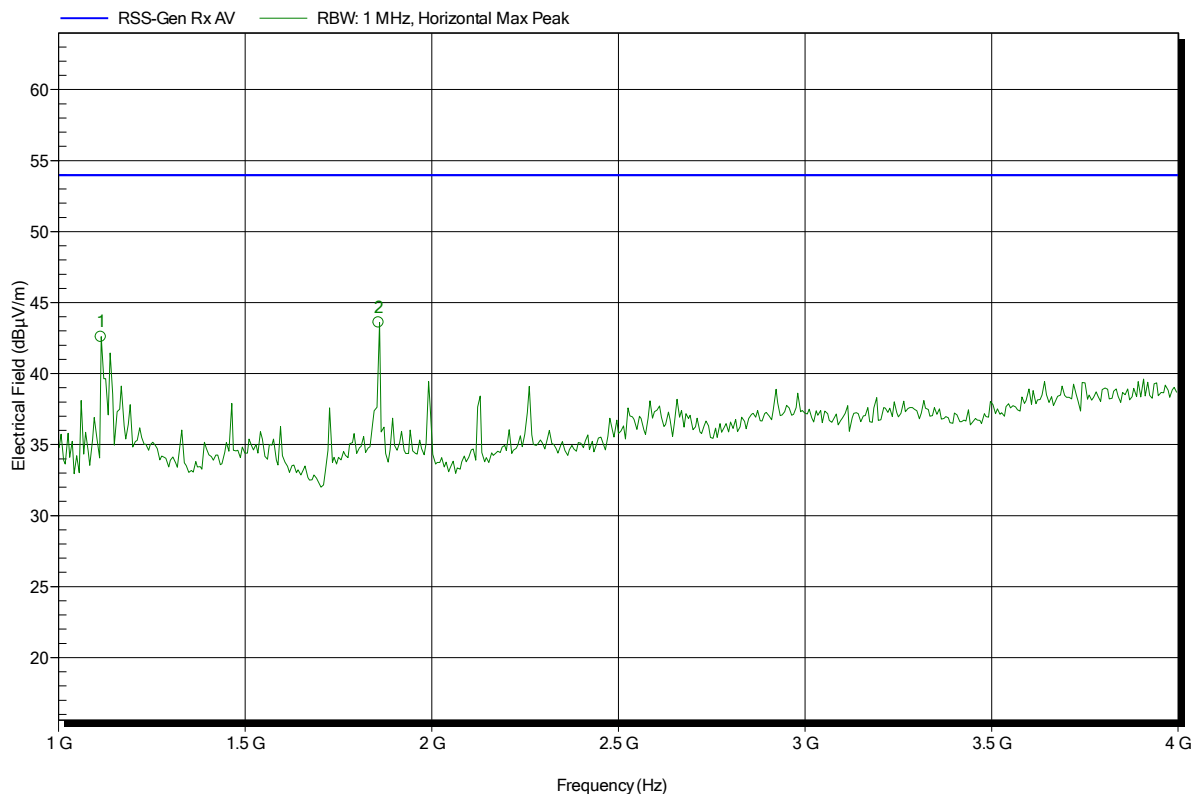
| Frequency | Peak         | Peak Limit | Peak Difference | Status |
|-----------|--------------|------------|-----------------|--------|
| 664 MHz   | 43.52 dBµV/m | 46 dBµV/m  | -2.48 dB        | Pass   |

## Spurious emissions according to RSS-GEN

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: RX; WLAN; 2437 MHz  
 Test Date: 2014-09-10  
 Note:

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| Frequency | Peak         | Peak Limit   | Peak Difference | Status |
|-----------|--------------|--------------|-----------------|--------|
| 1.114 GHz | 42.58 dBµV/m | 53.98 dBµV/m | -11.4 dB        | Pass   |
| 1.858 GHz | 43.59 dBµV/m | 53.98 dBµV/m | -10.39 dB       | Pass   |

Test Report No.: G0M-1407-4002-TFC247WF-V02

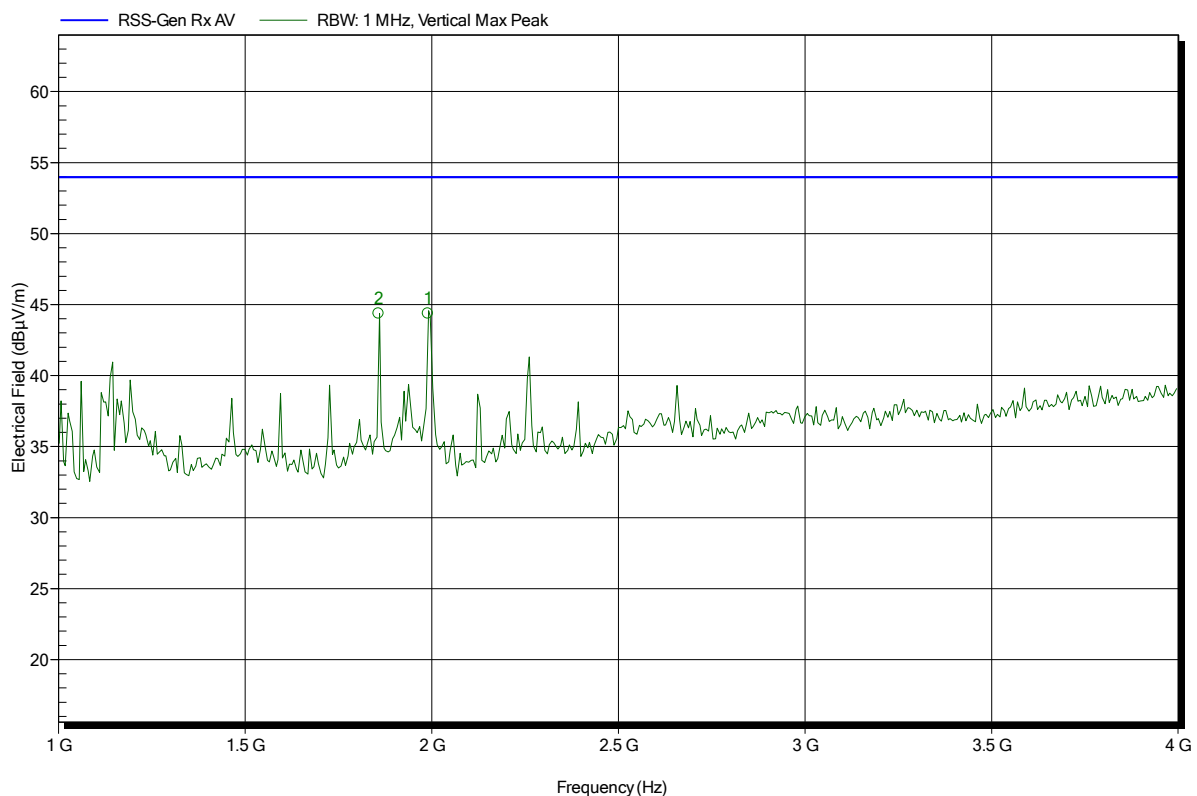
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to RSS-GEN

Project number: G0M-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: RX; WLAN; 2437 MHz  
 Test Date: 2014-09-10  
 Note:

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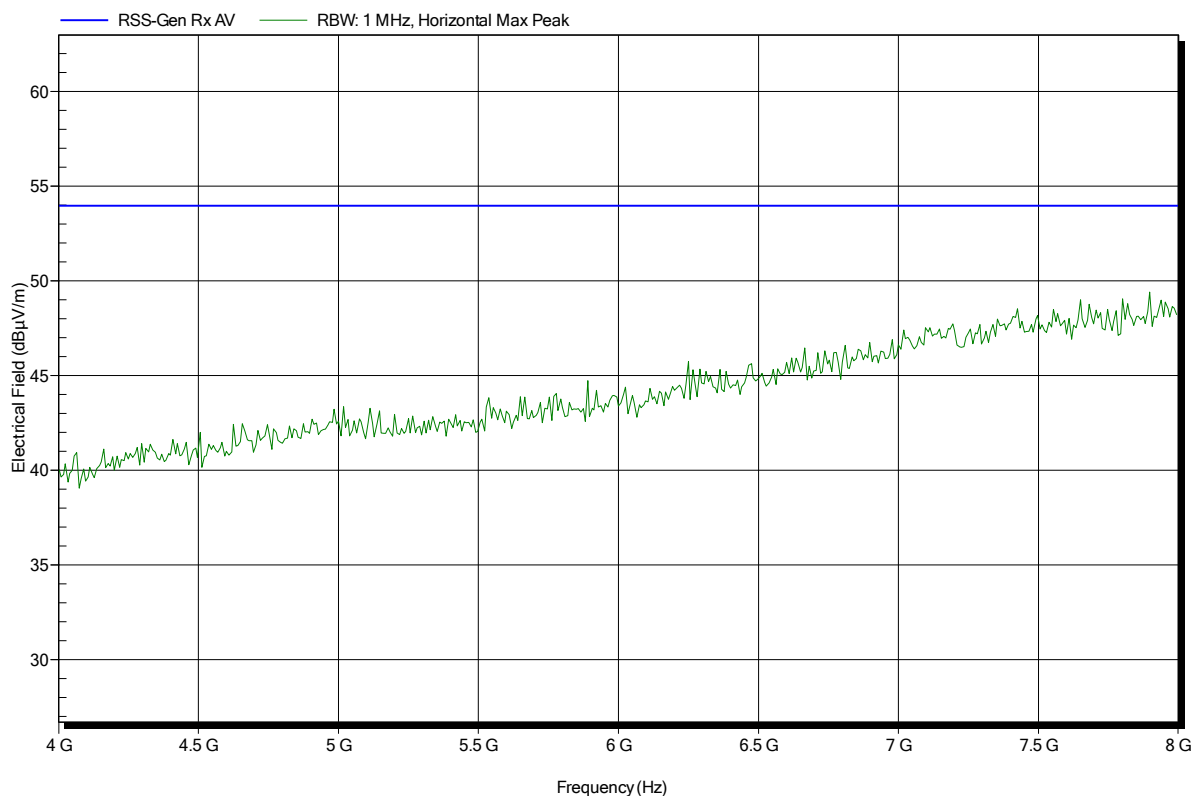
| Frequency | Peak         | Peak Limit   | Peak Difference | Status |
|-----------|--------------|--------------|-----------------|--------|
| 1.858 GHz | 44.36 dBµV/m | 53.98 dBµV/m | -9.62 dB        | Pass   |
| 1.99 GHz  | 44.36 dBµV/m | 53.98 dBµV/m | -9.62 dB        | Pass   |

## Spurious emissions according to RSS-GEN

Project number: G0M-1407-4002

|                       |                                            |
|-----------------------|--------------------------------------------|
| Applicant:            | Leica Geosystems                           |
| EUT Name:             | Laser Distance Meter                       |
| Model:                | Leica DISTO S910                           |
| Test Site:            | Eurofins Product Service GmbH              |
| Operator:             | Mr. Treffke                                |
| Test Conditions:      | Tnom: 25°C, Vnom: 3.6 V DC lithium battery |
| Antenna:              | Schwarzbeck BBHA 9120D, Horizontal         |
| Measurement distance: | 3 m                                        |
| Mode:                 | RX; WLAN; 2437 MHz                         |
| Test Date:            | 2014-09-10                                 |
| Note:                 |                                            |

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## Spurious emissions according to RSS-GEN

Project number: GOM-1407-4002

Applicant: Leica Geosystems  
 EUT Name: Laser Distance Meter  
 Model: Leica DISTO S910  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.6 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: RX; WLAN; 2437 MHz  
 Test Date: 2014-09-10  
 Note:

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