

| <b>RADIO REPORT</b><br><b>FCC 47 CFR Part 15C</b><br><b>ISED Canada RSS-247</b><br><b>Digital transmission systems operating within the 2400 – 2483.5 MHz band</b> |                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Reference No</b>                                                                                                                                         | G0M-1705-6514-TFC247BL-GLM400CL-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 Test Firm Designation Number: DE0008<br>IC Testing Laboratory site: 3470A-2 |
| <b>Applicant</b>                                                                                                                                                   | Robert Bosch Tool Corporation                                                                                                                                                                                                        |
| <b>Address</b>                                                                                                                                                     | 1800 W. Central Road<br>60056 Mount Prospect, IL<br>USA                                                                                                                                                                              |
| <b>Test Specification</b>                                                                                                                                          | According to FCC/ISED rules                                                                                                                                                                                                          |
| <b>Standard</b>                                                                                                                                                    | 47 CFR Part 15C<br>RSS-247, Issue 2, 2017-02                                                                                                                                                                                         |
| <b>Non-Standard Test Method</b>                                                                                                                                    | None                                                                                                                                                                                                                                 |
| <b>Test Scope</b>                                                                                                                                                  | partial compliance test                                                                                                                                                                                                              |
| <b>Equipment under Test (EUT):</b>                                                                                                                                 |                                                                                                                                                                                                                                      |
| <b>Product Description</b>                                                                                                                                         | Laser Rangefinder                                                                                                                                                                                                                    |
| <b>Model(s)</b>                                                                                                                                                    | GLM400CL                                                                                                                                                                                                                             |
| <b>Additional Model(s)</b>                                                                                                                                         | None                                                                                                                                                                                                                                 |
| <b>Brand Name(s)</b>                                                                                                                                               | BOSCH                                                                                                                                                                                                                                |
| <b>Hardware Version(s)</b>                                                                                                                                         | Main PCBA 3.1 (BOM 3.2), Long-Range PCBA 3.3                                                                                                                                                                                         |
| <b>Software Version(s)</b>                                                                                                                                         | CPU 1.0.0, MCU 1.0.0, Bluetooth 1.2.0                                                                                                                                                                                                |
| <b>FCC-ID</b>                                                                                                                                                      | TXTGLM400C                                                                                                                                                                                                                           |
| <b>IC</b>                                                                                                                                                          | 909H-GLM400C                                                                                                                                                                                                                         |
| <b>Test Result</b>                                                                                                                                                 | <b>PASSED</b>                                                                                                                                                                                                                        |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------|
| <b>Possible test case verdicts:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                                                                                       |
| required by standard but not tested                                                                                                                                                                                                                                                                                                                                                                                                                                            | N/T              |                                                                                       |
| not required by standard                                                                                                                                                                                                                                                                                                                                                                                                                                                       | N/R              |                                                                                       |
| not applicable to EUT                                                                                                                                                                                                                                                                                                                                                                                                                                                          | N/A              |                                                                                       |
| test object does meet the requirement                                                                                                                                                                                                                                                                                                                                                                                                                                          | P(PASS)          |                                                                                       |
| test object does not meet the requirement                                                                                                                                                                                                                                                                                                                                                                                                                                      | F(FAIL)          |                                                                                       |
| <b>Testing:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                                                                       |
| Test Lab Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20 - 23 °C       |                                                                                       |
| Test Lab Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 32 – 38 %        |                                                                                       |
| Date of receipt of test item                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2017-11-13       |                                                                                       |
| <b>Report:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |                                                                                       |
| Compiled by                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sebastian Suckow |                                                                                       |
| Tested by (+ signature)<br>(Responsible for Test)                                                                                                                                                                                                                                                                                                                                                                                                                              | Sebastian Suckow |   |
| Approved by (+ signature)<br>(Deputy Head of Lab)                                                                                                                                                                                                                                                                                                                                                                                                                              | Toralf Jahn      |  |
| Date of Issue                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2018-01-31       |                                                                                       |
| Total number of pages                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 75               |                                                                                       |
| <b>General Remarks:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                                                                                       |
| <p>The test results presented in this report relate only to the object tested.</p> <p>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.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> |                  |                                                                                       |
| <b>Additional Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                                                                       |

## VERSION HISTORY

| Version History |            |                               |            |
|-----------------|------------|-------------------------------|------------|
| Version         | Issue Date | Remarks                       | Revised By |
| 01              | 2017-01-09 | Initial Release               |            |
| 02              | 2018-01-31 | FCC-ID, IC, HVIN, PMN updated | S. Suckow  |

## ABBREVIATIONS AND ACRONYMS

| Acronyms         |                                                     |
|------------------|-----------------------------------------------------|
| Acronym          | Description                                         |
| EUT              | Equipment Under Test                                |
| FCC              | Federal Communications Commission                   |
| ISED             | Innovation, Science and Economic Development Canada |
| RBW              | Resolution bandwidth                                |
| RMS              | Root mean square                                    |
| VBW              | Video bandwidth                                     |
| V <sub>NOM</sub> | Nominal supply voltage                              |

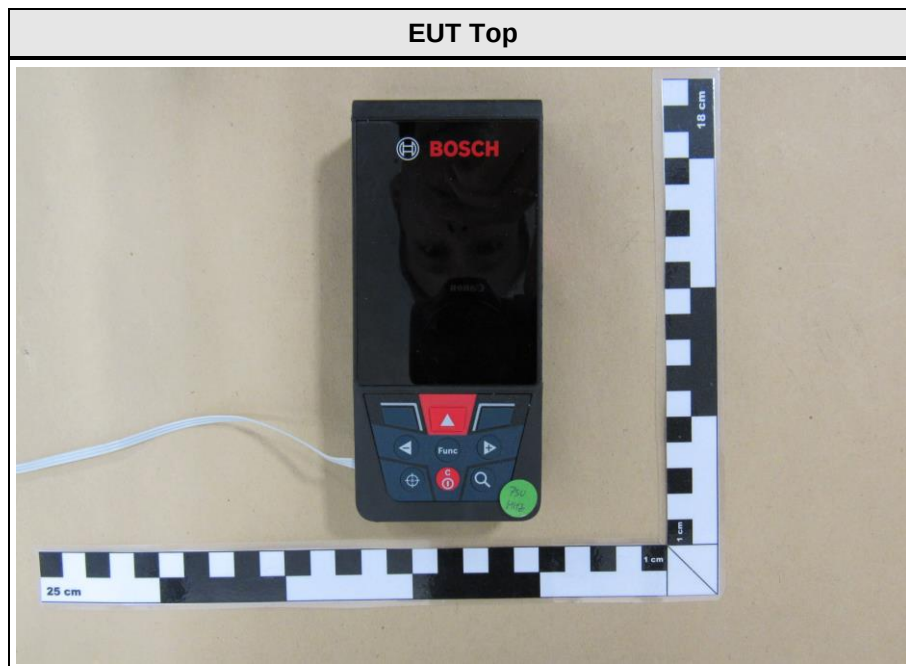
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## 1 Equipment (Test Item) Under Test

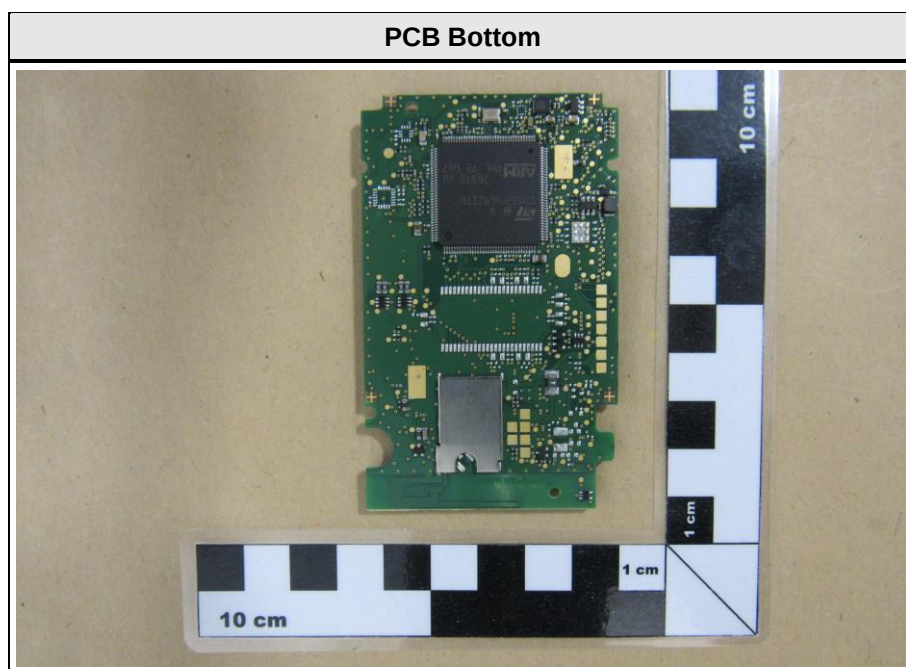
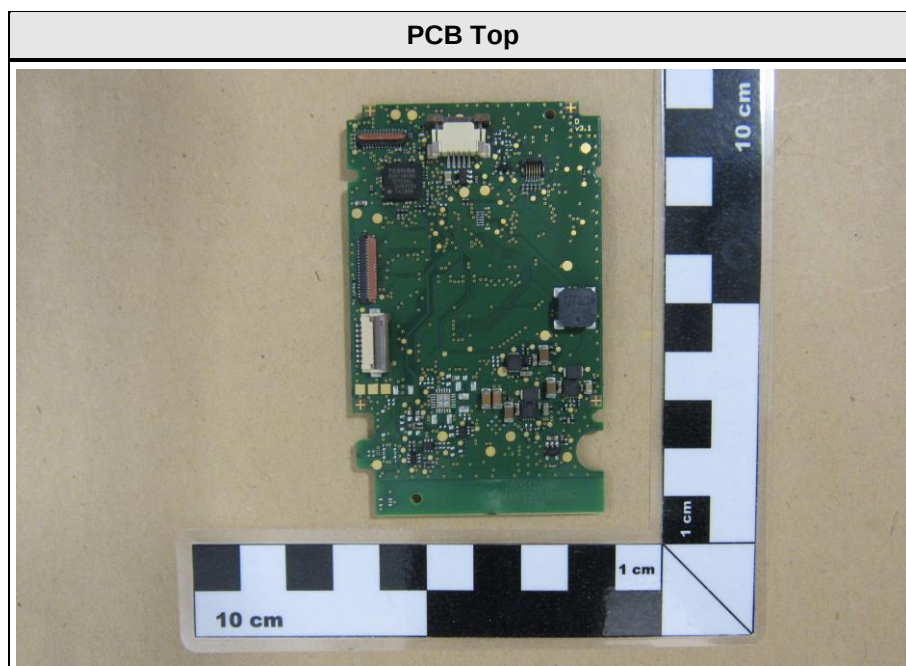
|                          |                                              |                                                   |
|--------------------------|----------------------------------------------|---------------------------------------------------|
| Description              | Laser Rangefinder                            |                                                   |
| Model                    | GLM400CL                                     |                                                   |
| Additional Model(s)      | None                                         |                                                   |
| Brand Name(s)            | BOSCH                                        |                                                   |
| Serial Number(s)         | None                                         |                                                   |
| Hardware Version(s)      | Main PCBA 3.1 (BOM 3.2), Long-Range PCBA 3.3 |                                                   |
| Software Version(s)      | CPU 1.0.0, MCU 1.0.0, Bluetooth 1.2.0        |                                                   |
| PMN                      | GLM400CL                                     |                                                   |
| HVIN                     | GLM400CL                                     |                                                   |
| FVIN                     | N/A                                          |                                                   |
| HMN                      | N/A                                          |                                                   |
| FCC-ID                   | TXTGLM400C                                   |                                                   |
| IC                       | 909H-GLM400C                                 |                                                   |
| Equipment type           | End Product                                  |                                                   |
| Radio type               | Transceiver                                  |                                                   |
| Assigned frequency bands | 2400 - 2483.5 MHz                            |                                                   |
| Radio technology         | Bluetooth LE                                 |                                                   |
| Modulation               | GFSK                                         |                                                   |
| Number of antenna ports  | 1                                            |                                                   |
| Radio Module             | Type                                         | Bluetooth low-energy                              |
|                          | Model                                        | CC2640                                            |
|                          | Manufacturer                                 | Texas Instruments                                 |
|                          | HW Version                                   | PCBA 3.1, BOM 3.2                                 |
|                          | SW Version                                   | Miraculix 1.2.0 R90                               |
| Antenna                  | Type                                         | PCB antenna                                       |
|                          | Model                                        | Inverted F antenna (TI reference design SWRU120C) |
|                          | Manufacturer                                 | N/A (PCB by ITEQ Corp.)                           |
|                          | Gain                                         | 3.3 dBi                                           |
| Supply Voltage           | V <sub>NOM</sub>                             | 3.6 VDC                                           |
| Operating Temperature    | T <sub>NOM</sub>                             | 25 °C                                             |
| Manufacturer             | Robert Bosch Power Tools GmbH                |                                                   |
|                          | 70538 Stuttgart<br>Germany                   |                                                   |

## 1.1 Photos – Equipment External

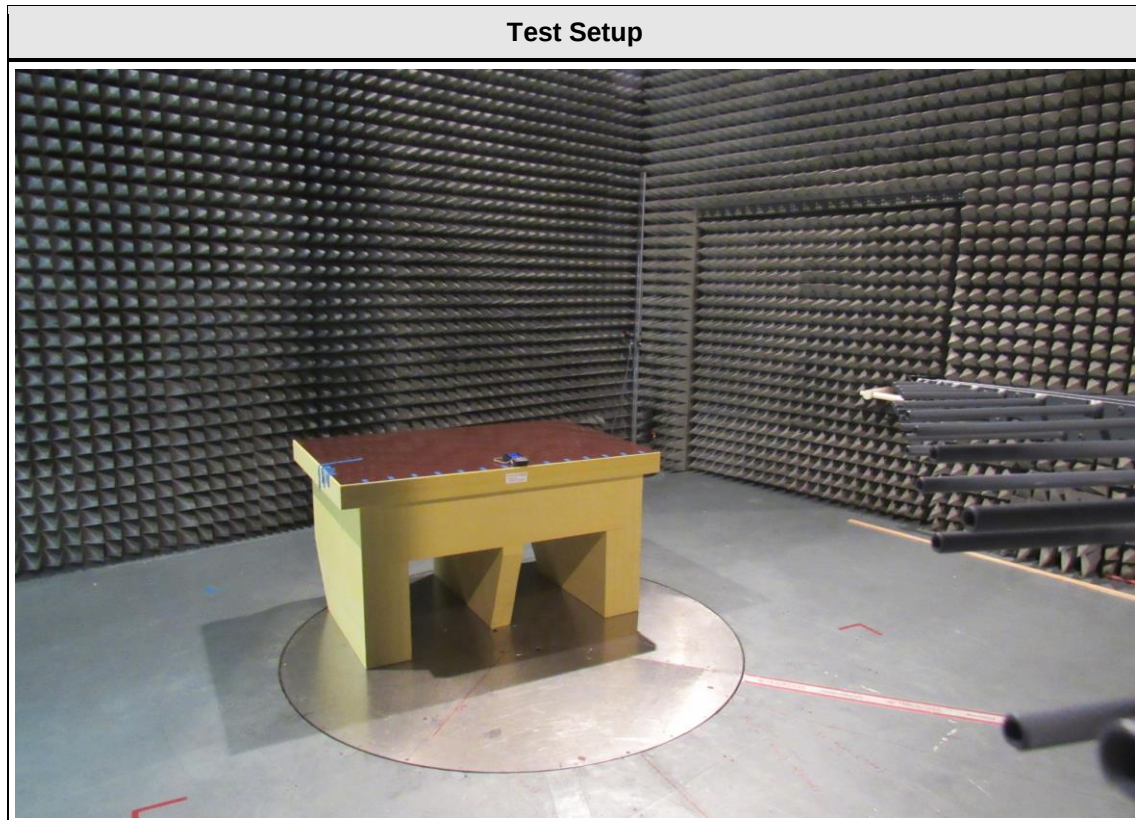




## 1.2 Photos – Equipment Internal



### 1.3 Photos – Test Setup



#### 1.4 Support Equipment

| Product Type | Device              | Manufacturer | Model | Comment |
|--------------|---------------------|--------------|-------|---------|
| None         |                     |              |       |         |
| Description: |                     |              |       |         |
| AE           | Auxillary Equipment |              |       |         |
| SIM          | Simulator           |              |       |         |
| CBL          | Connecting Cable    |              |       |         |
| Comment:     |                     |              |       |         |

### 1.5 Test Modes

| Mode     | Description                                                                  |
|----------|------------------------------------------------------------------------------|
| GFSK     | Mode = Transmit<br>Modulation = GFSK<br>Spreading = None<br>Duty cycle = 50% |
| Receive  | Mode = Receive                                                               |
| Comment: |                                                                              |

## 1.6 Test Frequencies

| Designator | Mode    | Channel | Frequency [MHz] |
|------------|---------|---------|-----------------|
| F1         | Tx / Rx | 0       | 2402            |
| F2         | Tx / Rx | 19      | 2440            |
| F3         | Tx / Rx | 39      | 2480            |

## 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:

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

Margin:

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

Example only:

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

## 2 Result Summary

| FCC 47 CFR Part 15C, ISED RSS-247                     |                                         |                  |        |                                |
|-------------------------------------------------------|-----------------------------------------|------------------|--------|--------------------------------|
| Product Standard Reference                            | Requirement                             | Reference Method | Result | Remarks                        |
| RSS-Gen 6.6                                           | Occupied Bandwidth                      | ANSI C63.10      | N/R    | Informational only             |
| FCC § 15.247(a)(2)<br>ISED RSS-247 § 5.2              | 6 dB Bandwidth                          | ANSI C63.10      | N/T    |                                |
| FCC § 15.247(b)(3)<br>ISED RSS-247 § 5.4              | Maximum peak conducted power            | ANSI C63.10      | N/T    |                                |
| FCC § 15.247(e)<br>ISED RSS-247 § 5.2                 | Power spectral density                  | ANSI C63.10      | N/T    |                                |
| FCC § 15.207<br>ISED RSS-247 § 3.1                    | AC power line conducted emissions       | ANSI C63.10      | N/R    | No transitions during charging |
| FCC § 15.247(d)<br>ISED RSS-247 § 5.5                 | Band edge compliance                    | ANSI C63.10      | N/T    |                                |
| FCC § 15.247(d)<br>ISED RSS-247 § 5.5                 | Conducted spurious emissions            | ANSI C63.10      | N/T    |                                |
| FCC § 15.247(d)<br>FCC § 15.209<br>ISED RSS-GEN § 8.9 | Transmitter radiated spurious emissions | ANSI C63.10      | PASS   |                                |
| ISED RSS-247 § 3.1                                    | Receiver radiated spurious emissions    | ANSI C63.10      | PASS   |                                |
| Comment:                                              |                                         |                  |        |                                |

| Possible Test Case Verdicts |                                              |
|-----------------------------|----------------------------------------------|
| PASS                        | Test object does meet the requirements       |
| FAIL                        | Test object does not meet the requirements   |
| N/T                         | Required by standard but not tested          |
| N/R                         | Not required by standard for the test object |

### 3 Test Conditions and Results

#### 3.1 Test Conditions and Results - Occupied bandwidth

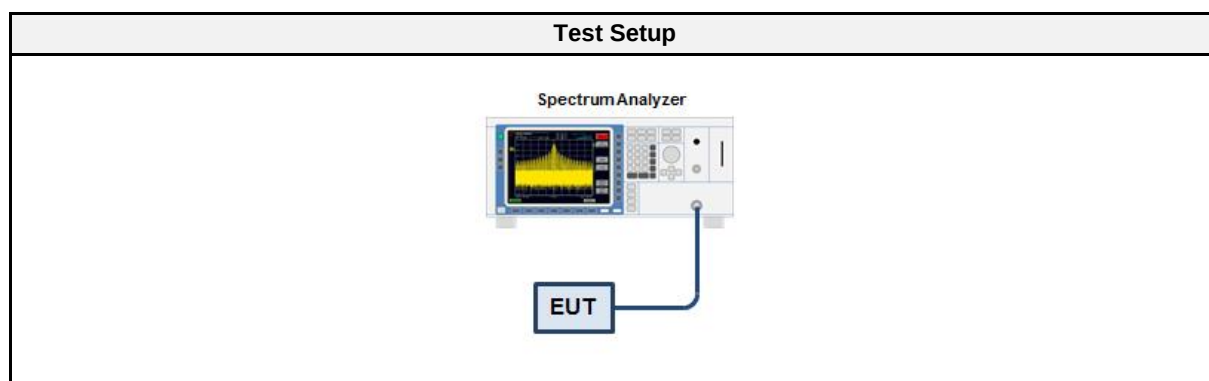
##### 3.1.1 Information

| Test Information   |                   |
|--------------------|-------------------|
| Reference          | ISED RSS-Gen 6.6  |
| Measurement Method | ANSI C63.10 6.9.3 |
| Operator           | Sebastian Suckow  |
| Date               | 2017-12-18        |

##### 3.1.2 Limits

| Limits                    |
|---------------------------|
| None (Informational only) |

##### 3.1.3 Setup



##### 3.1.4 Equipment

| Test Equipment    |              |        |            |           |          |
|-------------------|--------------|--------|------------|-----------|----------|
| Description       | Manufacturer | Model  | Identifier | Cal. Date | Cal. Due |
| Spectrum Analyzer | R&S          | FSW 43 | EF00896    | 2017-08   | 2018-08  |

##### 3.1.5 Procedure

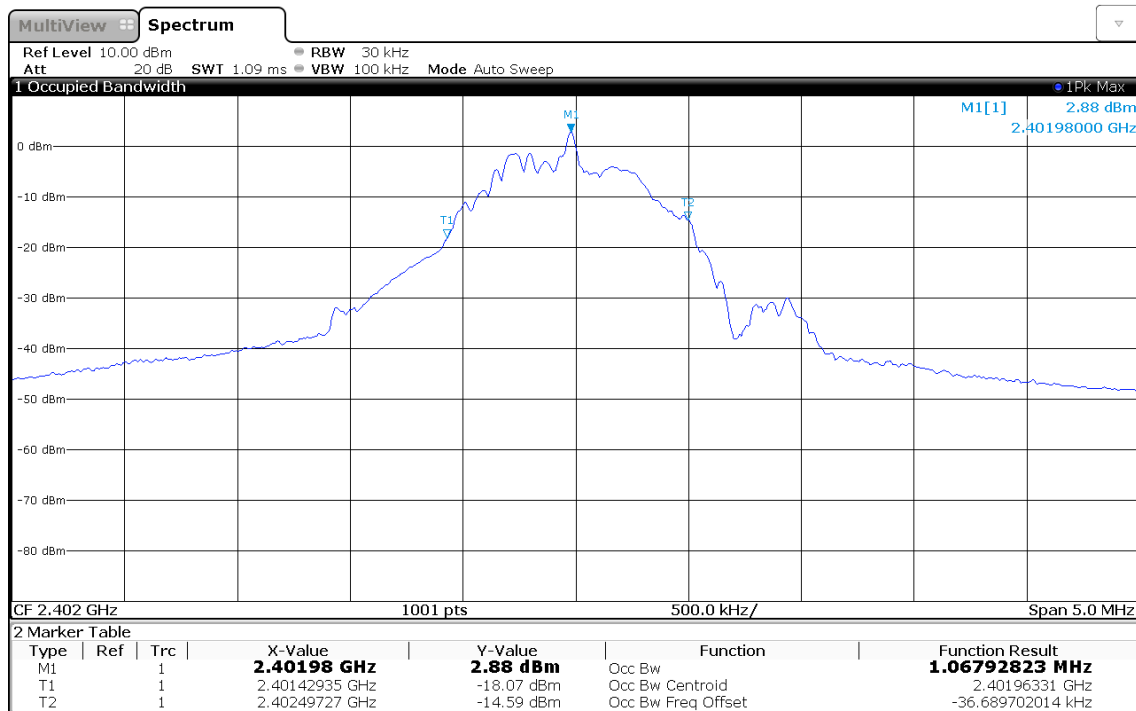
| Test Procedure                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. EUT transmitter is activated in test mode under normal conditions</li> <li>2. The spectrum analyzer is set to peak detection and maximum hold with a span twice the emission spectrum</li> <li>3. The resolution bandwidth is set to 1 % of the bandwidth</li> <li>4. The occupied bandwidth is measured with the build-in analyzer function</li> </ol> |

##### 3.1.6 Results

| Test Results |                 |                 |
|--------------|-----------------|-----------------|
| Mode         | Frequency [MHz] | Bandwidth [MHz] |
| GFSK         | 2402            | 1.068           |
| GFSK         | 2440            | 1.048           |
| GFSK         | 2480            | 1.045           |

## Occupied Bandwidth

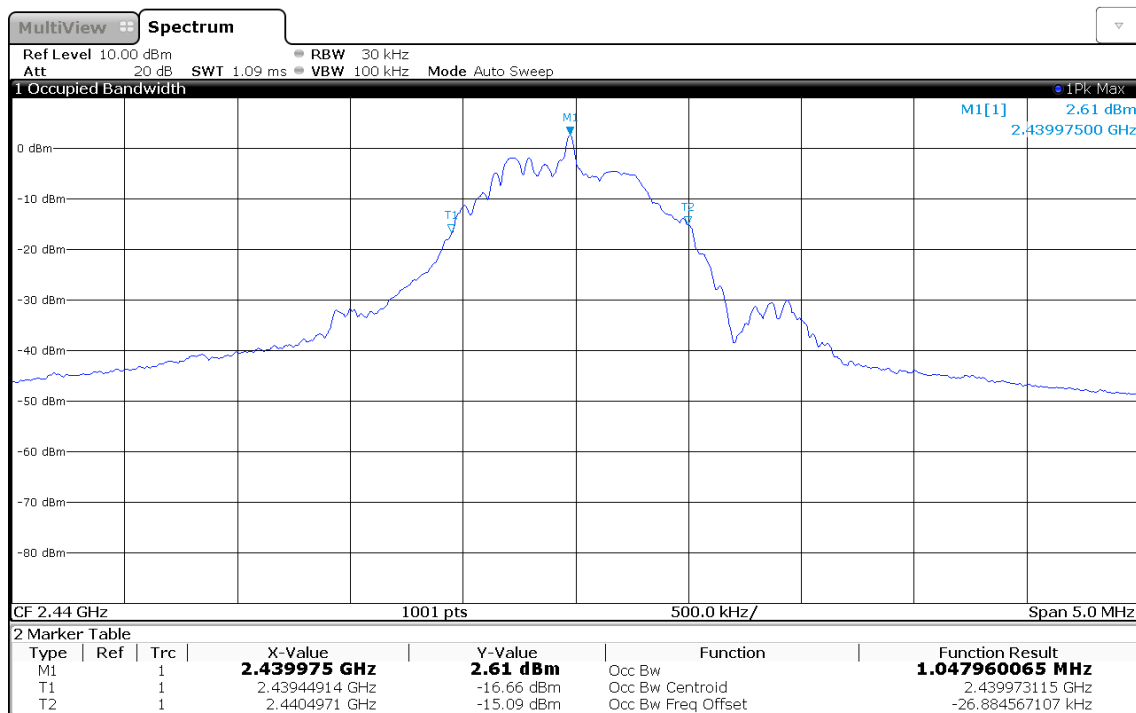
Project Number: G0M-1705-6514  
 Applicant: Robert Bosch Tool Corporation  
 Model Description: Laser Rangefinder  
 Model: GLM400CL  
 Test Sample ID: 16007  
 Reference Standards: FCC 15.247, RSS-247  
 Reference Method: ANSI C63.10:2013, Section 6.9.3  
 Operational Mode: GFSK, Channel: 0, 2402 MHz  
 Operating Conditions: Tnom/Vnom  
 Operator: S. Suckow  
 Test Site: Eurofins Product Service GmbH  
 Test Date: 2017-12-18  
 Occupied Bandwidth [MHz]: 1.068



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## Occupied Bandwidth

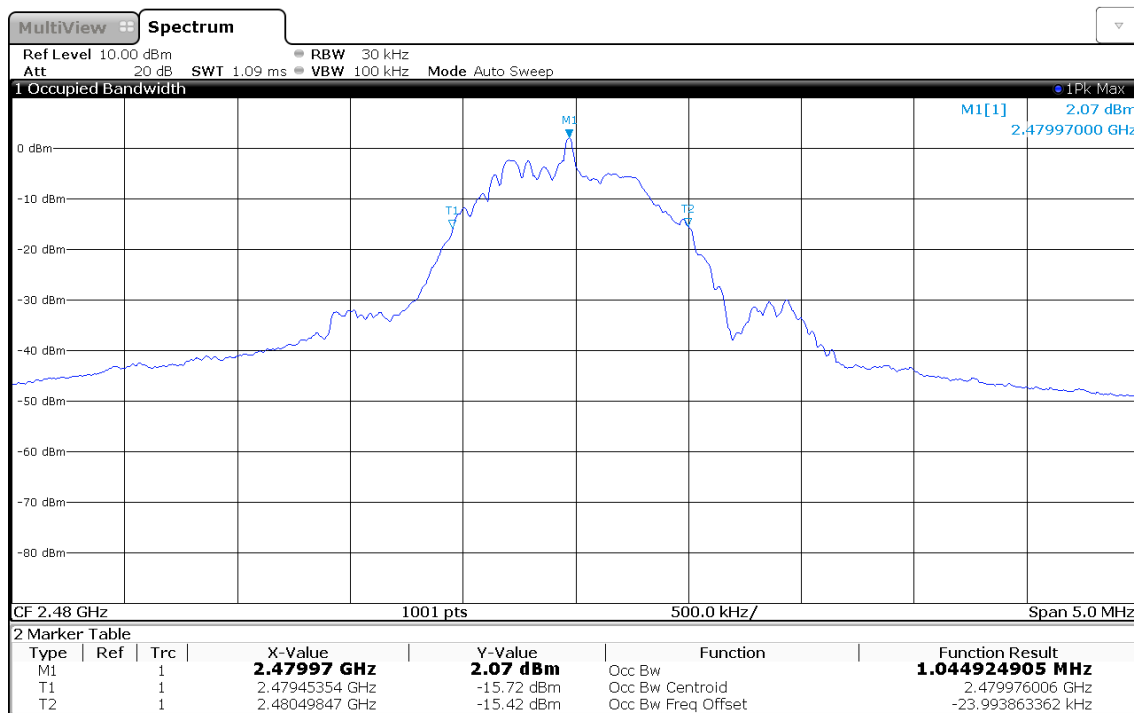
Project Number: G0M-1705-6514  
 Applicant: Robert Bosch Tool Corporation  
 Model Description: Laser Rangefinder  
 Model: GLM400CL  
 Test Sample ID: 16007  
 Reference Standards: FCC 15.247, RSS-247  
 Reference Method: ANSI C63.10:2013, Section 6.9.3  
 Operational Mode: GFSK, Channel: 19, 2440 MHz  
 Operating Conditions: Tnom/Vnom  
 Operator: S. Suckow  
 Test Site: Eurofins Product Service GmbH  
 Test Date: 2017-12-18  
 Occupied Bandwidth [MHz]: 1.048



11:12:17 18.12.2017

## Occupied Bandwidth

Project Number: G0M-1705-6514  
 Applicant: Robert Bosch Tool Corporation  
 Model Description: Laser Rangefinder  
 Model: GLM 400CL  
 Test Sample ID: 16007  
 Reference Standards: FCC 15.247, RSS-247  
 Reference Method: ANSI C63.10:2013, Section 6.9.3  
 Operational Mode: GFSK, Channel: 39, 2480 MHz  
 Operating Conditions: Tnom/Vnom  
 Operator: S. Suckow  
 Test Site: Eurofins Product Service GmbH  
 Test Date: 2017-12-18  
 Occupied Bandwidth [MHz]: 1.045



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## 3.2 Test Conditions and Results - Transmitter radiated emissions

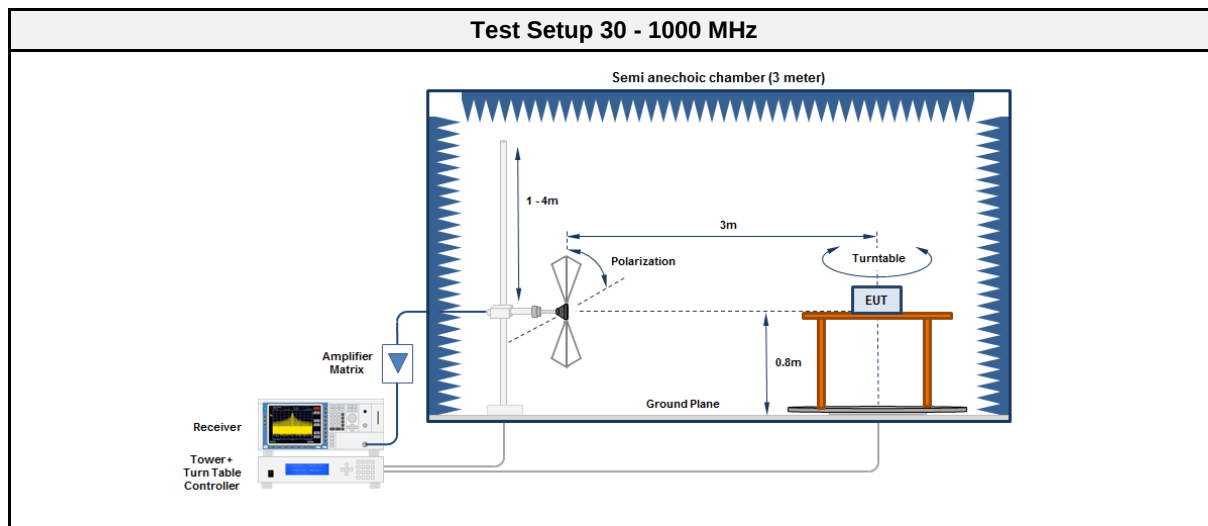
### 3.2.1 Information

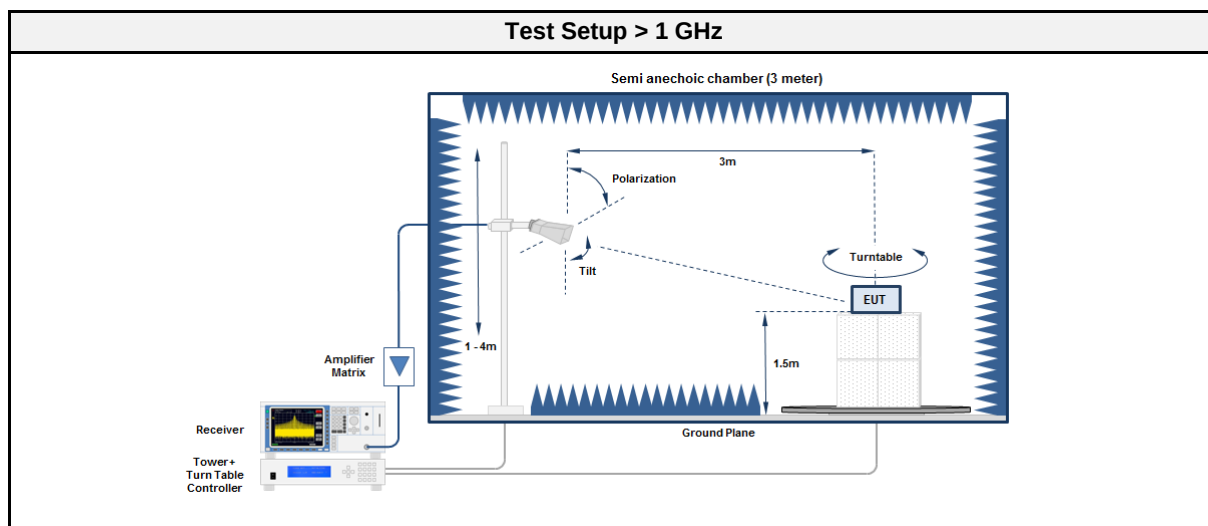
| Test Information   |                                  |
|--------------------|----------------------------------|
| Reference          | FCC 15.247(d) / ISED RSS-GEN 8.9 |
| Measurement Method | ANSI C63.10 6.4, 6.5, 6.6, 11.12 |
| Operator           | Sebastian Suckow                 |
| Date               | 2017-11-13 – 2017-12-13          |

### 3.2.2 Limits

| Limits          |            |                               |                          |
|-----------------|------------|-------------------------------|--------------------------|
| Frequency [MHz] | Detector   | Field strength [dB $\mu$ V/m] | Measurement distance [m] |
| 0.009 - 0.09    | Average    | 2400/F[kHz]                   | 300                      |
| 0.09 - 0.110    | Quasi-Peak | 2400/F[kHz]                   | 300                      |
| 0.110 - 0.490   | Average    | 2400/F[kHz]                   | 300                      |
| 0.490 - 1.705   | Quasi-Peak | 24000/F[kHz]                  | 30                       |
| 1.705 - 30.0    | Quasi-Peak | 30                            | 30                       |
| 30 - 88         | Quasi-Peak | 100                           | 3                        |
| 88 - 216        | Quasi-Peak | 150                           | 3                        |
| 216 - 960       | Quasi-Peak | 200                           | 3                        |
| 960 - 1000      | Quasi-Peak | 500                           | 3                        |
| >1000           | Average    | 500                           | 3                        |

### 3.2.3 Setup





### 3.2.4 Equipment

| Test Equipment 30 - 1000 MHz |              |                |            |           |          |
|------------------------------|--------------|----------------|------------|-----------|----------|
| Description                  | Manufacturer | Model          | Identifier | Cal. Date | Cal. Due |
| Anechoic Chamber             | Frankonia    | AC1            | EF00062    | -         | -        |
| Measurement Receiver         | Agilent      | N9038A-526/WXP | EF01070    | 2017-08   | 2018-08  |
| Antenna                      | R&S          | HK 116         | EF00203    | 2016-06   | 2018-06  |
| Antenna                      | R&S          | HL 223         | EF00187    | 2016-05   | 2019-05  |

| Test Equipment > 1 GHz |                    |                |            |           |          |
|------------------------|--------------------|----------------|------------|-----------|----------|
| Description            | Manufacturer       | Model          | Identifier | Cal. Date | Cal. Due |
| Anechoic Chamber       | Frankonia          | AC1            | EF00062    | -         | -        |
| Measurement Receiver   | Agilent            | N9038A-526/WXP | EF01070    | 2017-08   | 2018-08  |
| Antenna                | R&S                | BBHA 9120D     | EF01153    | 2017-08   | 2018-08  |
| Antenna                | Amplifier Research | AT4560         | EF01152    | 2017-10   | 2018-10  |

### 3.2.5 Procedure

| Test Procedure 30 - 1000 MHz                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground</li> <li>2. EUT set to test mode</li> <li>3. The receiver is set to peak detection with max hold</li> <li>4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m</li> <li>5. All significant emissions are measured again using the corresponding final detector</li> </ol> |

| Test Procedure > 1 GHz                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground</li> <li>2. EUT set to test mode</li> <li>3. The receiver is set to peak detection with max hold</li> <li>4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m</li> <li>5. All significant emissions are measured again using the corresponding final detector</li> </ol> |

### 3.2.6 Results

| Test Results  |                |                |      |      |                |             |
|---------------|----------------|----------------|------|------|----------------|-------------|
| Channel [MHz] | Emission [MHz] | Level [dBμV/m] | Det. | Pol. | Limit [dBμV/m] | Margin [dB] |
| 2402          | 4804           | 53.08          | pk   | hor  | 74.00          | -20.92      |
| 2402          | 4804           | 51.06          | RMS  | hor  | 54.00          | -02.94      |
| 2402          | 4804           | 51.48          | pk   | ver  | 74.00          | -22.52      |
| 2402          | 4804           | 49.26          | RMS  | ver  | 54.00          | -04.74      |
| 2402          | 12009          | 53.80          | pk   | hor  | 74.00          | -20.20      |
| 2402          | 12009          | 43.32          | avg  | hor  | 54.00          | -10.68      |
| 2402          | 12009          | 53.62          | pk   | ver  | 74.00          | -20.38      |
| 2402          | 12009          | 44.97          | avg  | ver  | 54.00          | -09.03      |
| 2440          | 262.9          | 40.40          | pk   | hor  | 46.00          | -05.57      |
| 2440          | 4880           | 50.98          | pk   | hor  | 74.00          | -23.02      |
| 2440          | 4881           | 35.25          | pk   | ver  | 74.00          | -38.75      |
| 2440          | 4881           | 26.40          | RMS  | ver  | 54.00          | -27.60      |
| 2440          | 7319           | 52.19          | pk   | ver  | 74.00          | -21.81      |
| 2440          | 7319           | 49.72          | RMS  | ver  | 54.00          | -04.28      |
| 2440          | 12190          | 51.98          | pk   | ver  | 74.00          | -22.02      |
| 2480          | 2500           | 55.88          | pk   | hor  | 74.00          | -18.12      |
| 2480          | 2500           | 49.87          | pk   | ver  | 74.00          | -24.13      |
| 2480          | 4960           | 45.71          | pk   | hor  | 74.00          | -28.29      |
| 2480          | 4960           | 50.74          | pk   | ver  | 74.00          | -23.26      |
| 2480          | 7440           | 50.22          | pk   | ver  | 74.00          | -23.78      |

### 3.3 Test Conditions and Results - Receiver radiated emissions

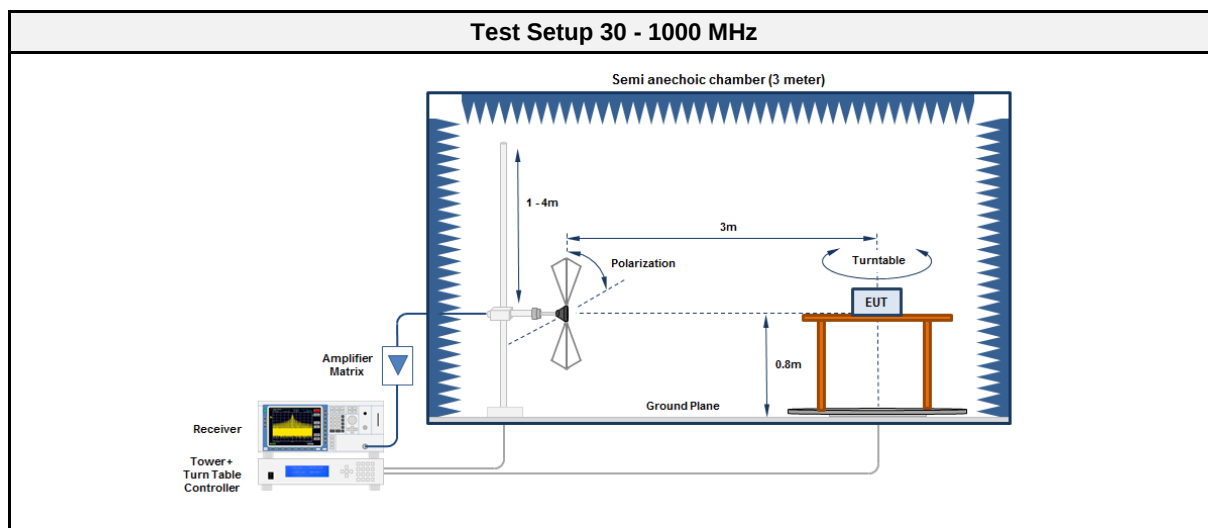
#### 3.3.1 Information

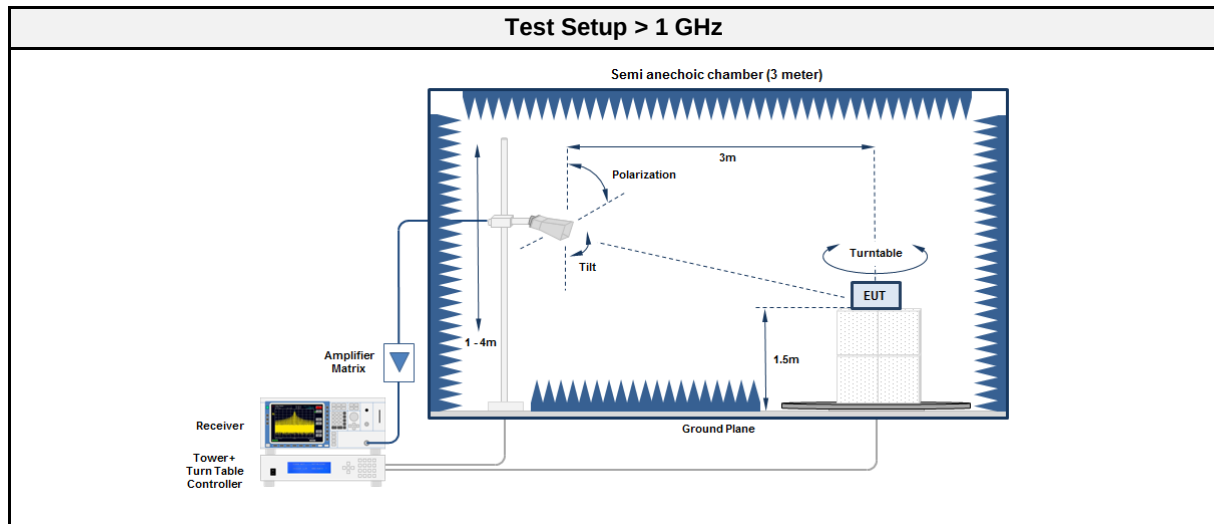
| Test Information   |                             |
|--------------------|-----------------------------|
| Reference          | ISED RSS-247 3.1            |
| Measurement Method | ANSI C63.10 6.5, 6.6, 11.12 |
| Operator           | Sebastian Suckow            |
| Date               | 2017-11-13 – 2017-12-13     |

#### 3.3.2 Limits

| Limits          |            |                               |                          |
|-----------------|------------|-------------------------------|--------------------------|
| Frequency [MHz] | Detector   | Field strength [dB $\mu$ V/m] | Measurement distance [m] |
| 30 - 88         | Quasi-Peak | 100                           | 3                        |
| 88 - 216        | Quasi-Peak | 150                           | 3                        |
| 216 - 960       | Quasi-Peak | 200                           | 3                        |
| 960 - 1000      | Quasi-Peak | 500                           | 3                        |
| >1000           | Average    | 500                           | 3                        |

#### 3.3.3 Setup





### 3.3.4 Equipment

| Test Equipment 30 - 1000 MHz |              |                |            |           |          |
|------------------------------|--------------|----------------|------------|-----------|----------|
| Description                  | Manufacturer | Model          | Identifier | Cal. Date | Cal. Due |
| Anechoic Chamber             | Frankonia    | AC1            | EF00062    | -         | -        |
| Measurement Receiver         | Agilent      | N9038A-526/WXP | EF01070    | 2017-08   | 2018-08  |
| Antenna                      | R&S          | HK 116         | EF00203    | 2016-06   | 2018-06  |
| Antenna                      | R&S          | HL 223         | EF00187    | 2016-05   | 2019-05  |

| Test Equipment > 1 GHz |              |                |            |           |          |
|------------------------|--------------|----------------|------------|-----------|----------|
| Description            | Manufacturer | Model          | Identifier | Cal. Date | Cal. Due |
| Anechoic Chamber       | Frankonia    | AC6            | EF00910    | 2017-03   | 2020-03  |
| Anechoic Chamber       | Frankonia    | AC1            | EF00062    | -         | -        |
| Measurement Receiver   | Agilent      | N9038A-526/WXP | EF01070    | 2017-08   | 2018-08  |
| Antenna                | R&S          | BBHA 9120D     | EF01153    | 2017-08   | 2018-08  |

### 3.3.5 Procedure

| Test Procedure 30 - 1000 MHz                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <ol style="list-style-type: none"> <li>1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground</li> <li>2. EUT set to test mode</li> <li>3. The receiver is set to peak detection with max hold</li> <li>4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m</li> <li>5. All significant emissions are measured again using the corresponding final detector</li> </ol> |  |

| Test Procedure > 1 GHz                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <ol style="list-style-type: none"> <li>1. EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground</li> <li>2. EUT set to test mode</li> <li>3. The receiver is set to peak detection with max hold</li> <li>4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m</li> <li>5. All significant emissions are measured again using the corresponding final detector</li> </ol> |  |

### 3.3.6 Results

| Test Results     |                   |                   |      |      |                   |                |
|------------------|-------------------|-------------------|------|------|-------------------|----------------|
| Channel<br>[MHz] | Emission<br>[MHz] | Level<br>[dBμV/m] | Det. | Pol. | Limit<br>[dBμV/m] | Margin<br>[dB] |
| 2440             | 53.119            | 33.80             | pk   | ver  | 40.00             | -06.21         |

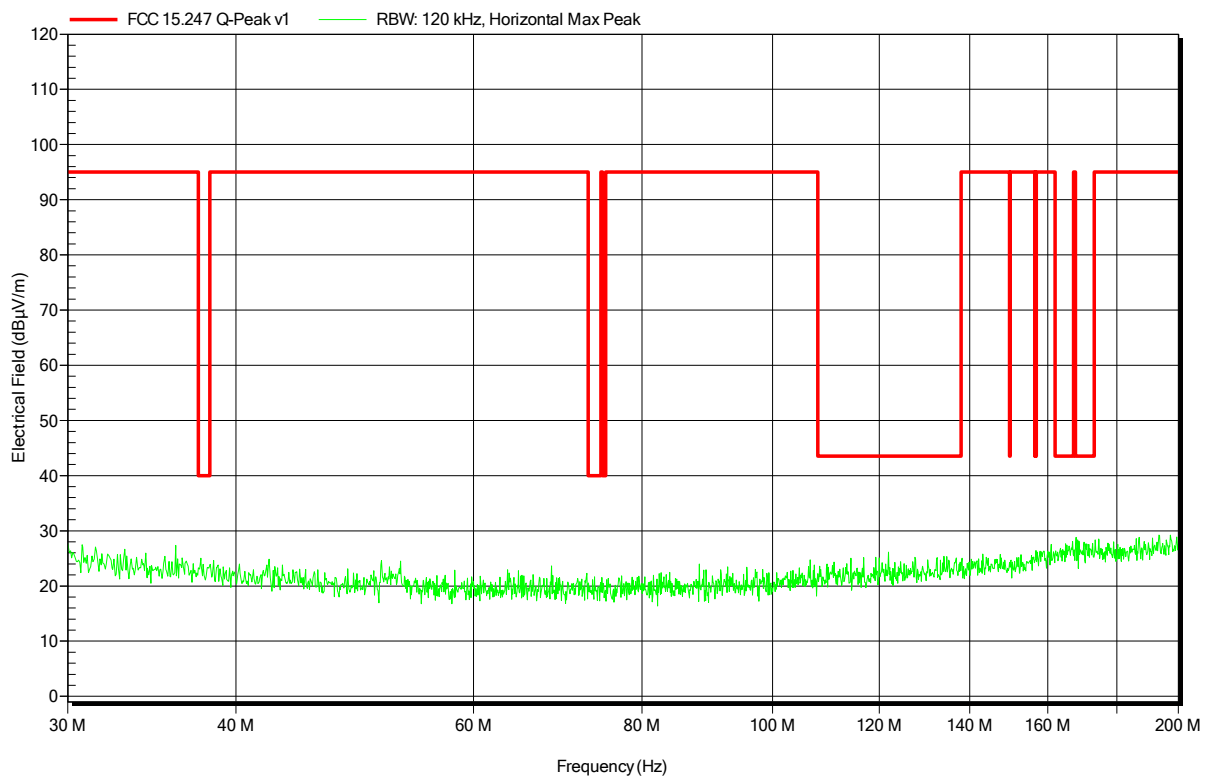
## ANNEX A Transmitter spurious emissions

### Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 21°C, Vnom: 3.6 VDC  
Antenna: Rohde & Schwarz HK 116, Horizontal  
Measurement distance: 3 m  
Mode: TX; BT LE 2402 MHz  
Test Date: 2017-12-13  
Note:

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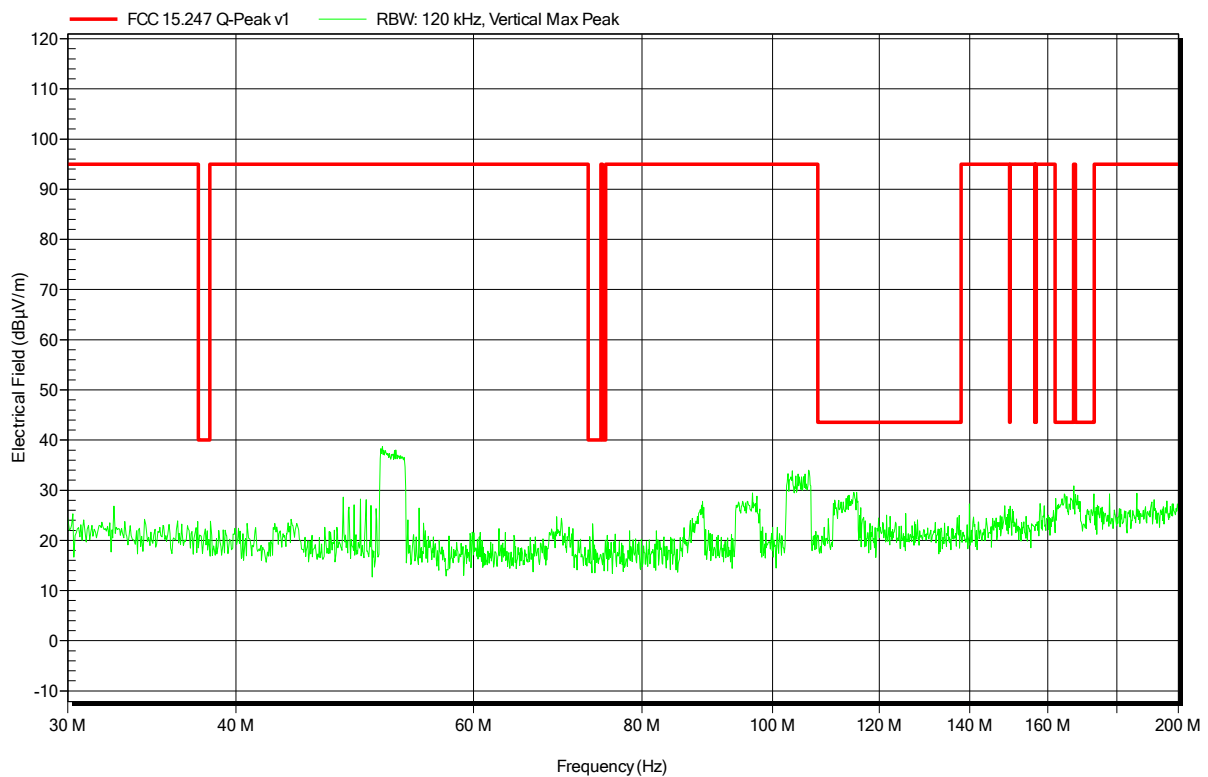


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 21°C, Vnom: 3.6 VDC  
Antenna: Rohde & Schwarz HK 116, Vertical  
Measurement distance: 3 m  
Mode: TX; BT LE 2402 MHz  
Test Date: 2017-12-13  
Note:

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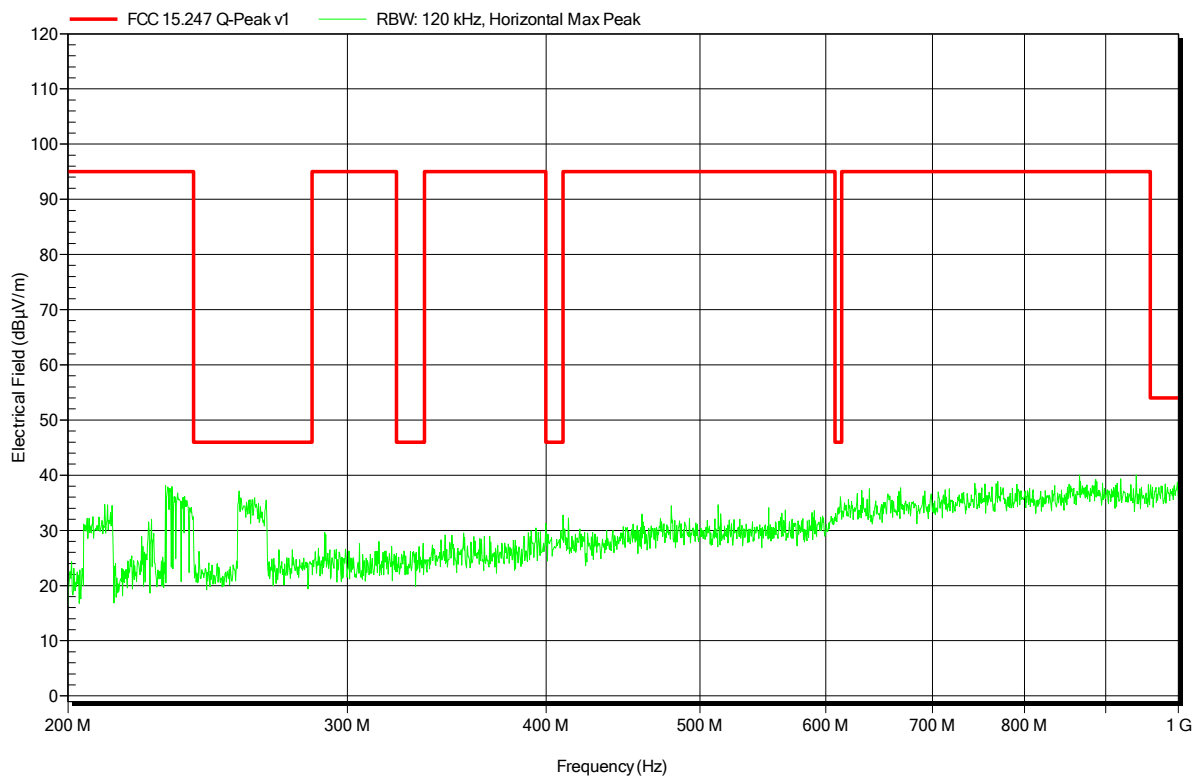


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 21°C, Vnom: 3.6 VDC  
Antenna: Rohde & Schwarz HL 223, Horizontal  
Measurement distance: 3 m  
Mode: TX; BT LE 2402 MHz  
Test Date: 2017-12-13  
Note:

Index 1

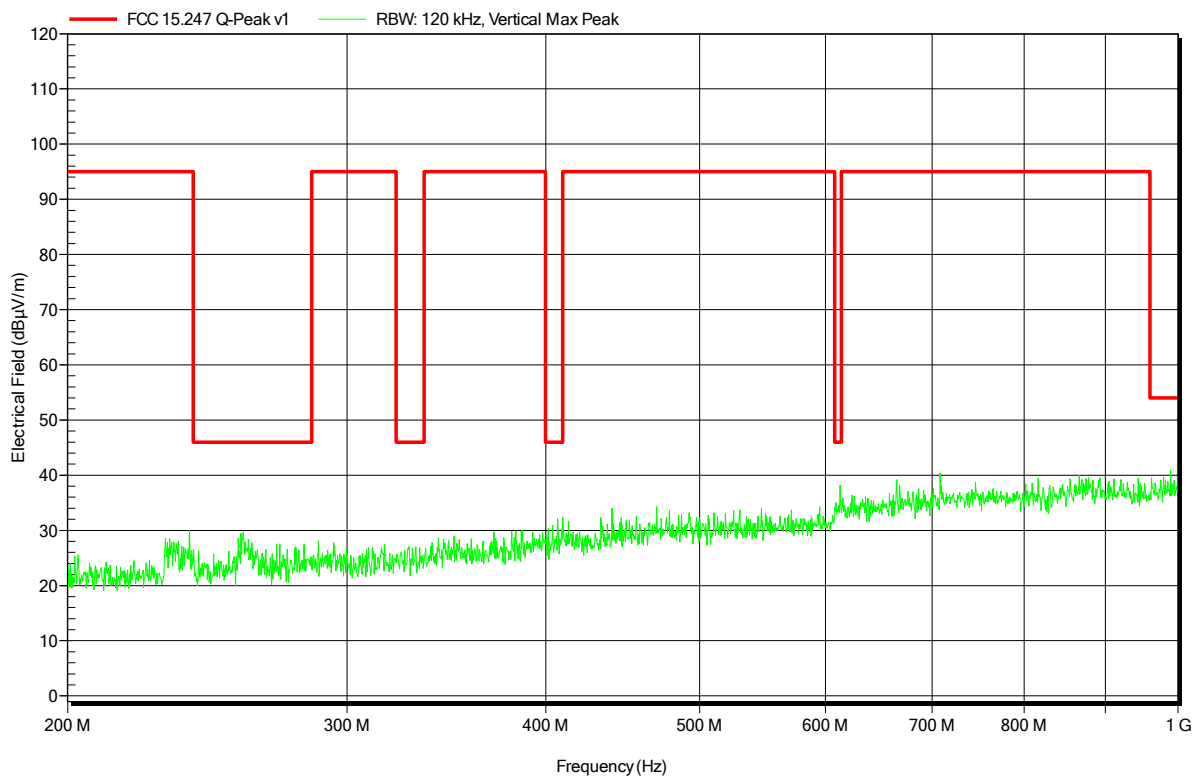


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 21°C, Vnom: 3.6 VDC  
Antenna: Rohde & Schwarz HL 223, Vertical  
Measurement distance: 3 m  
Mode: TX; BT LE 2402 MHz  
Test Date: 2017-12-13  
Note:

Index 2

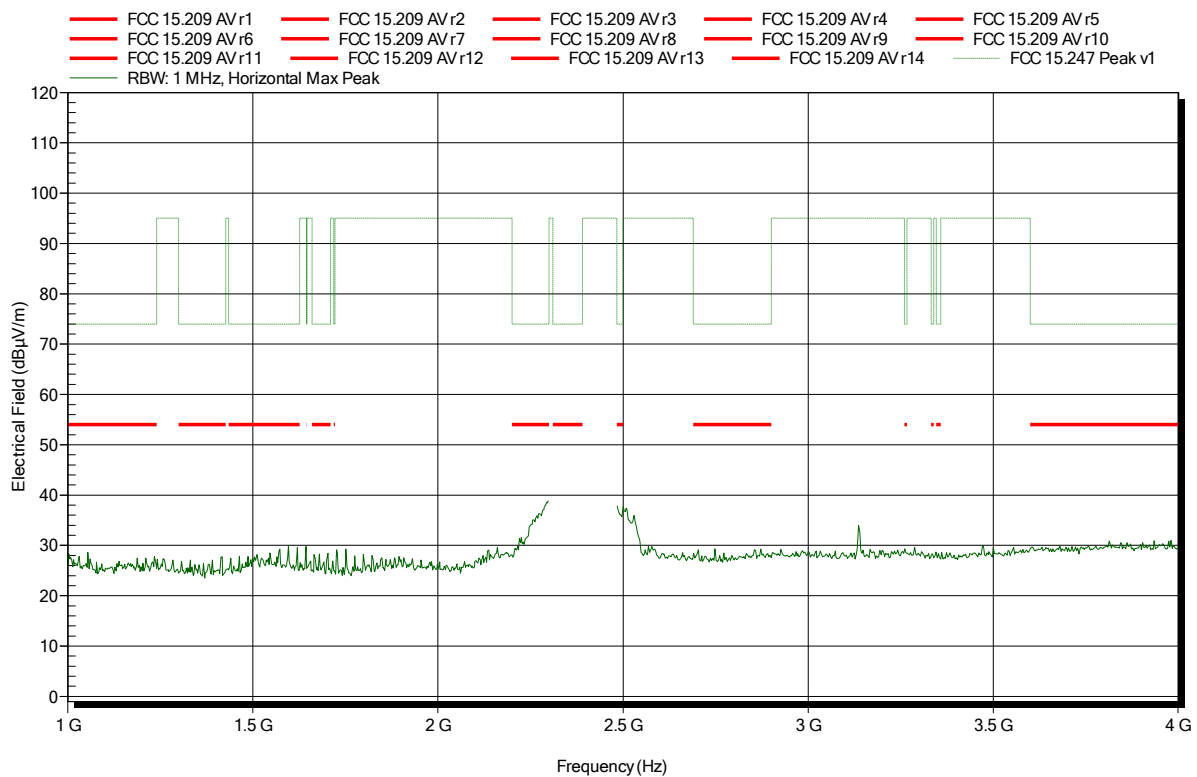


## Spurious emissions according to FCC 15.247

Project number: GOM-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Sebastian Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Horizontal  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2402 MHz  
Test Date: 2017-11-23  
Note:

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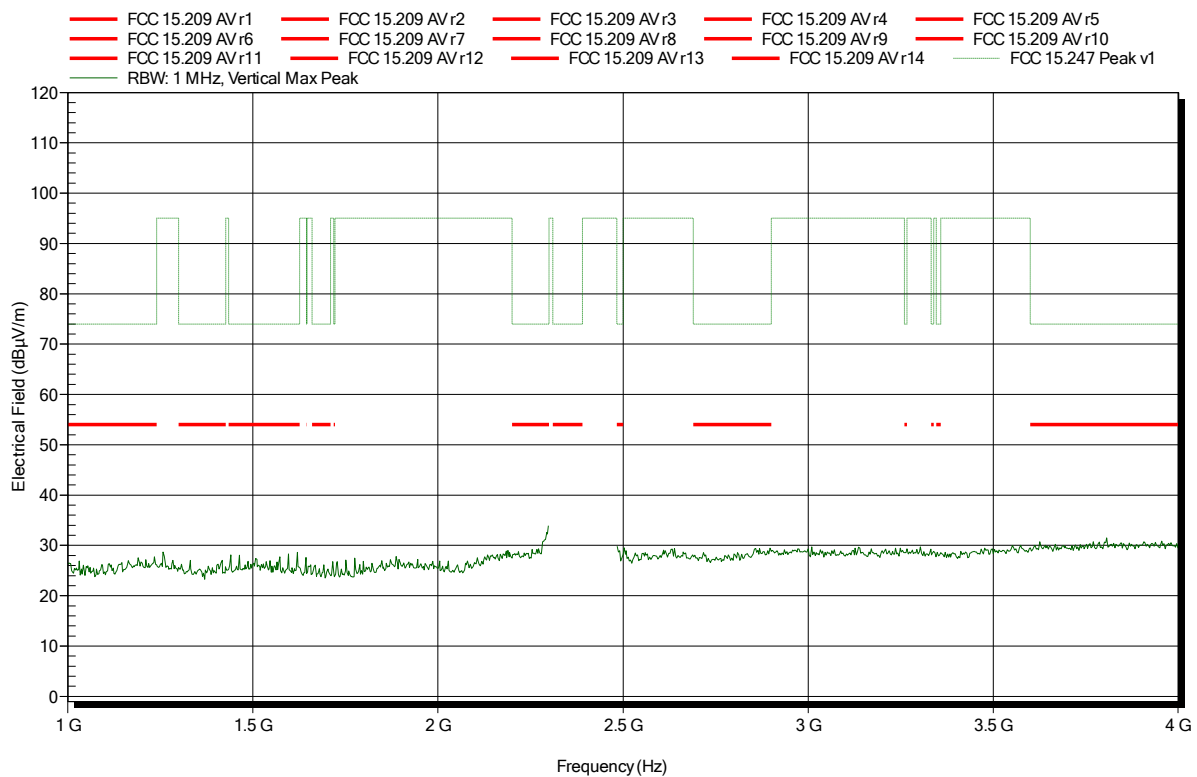


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Sebastian Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Vertical  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2402 MHz  
Test Date: 2017-11-23  
Note:

Index 43

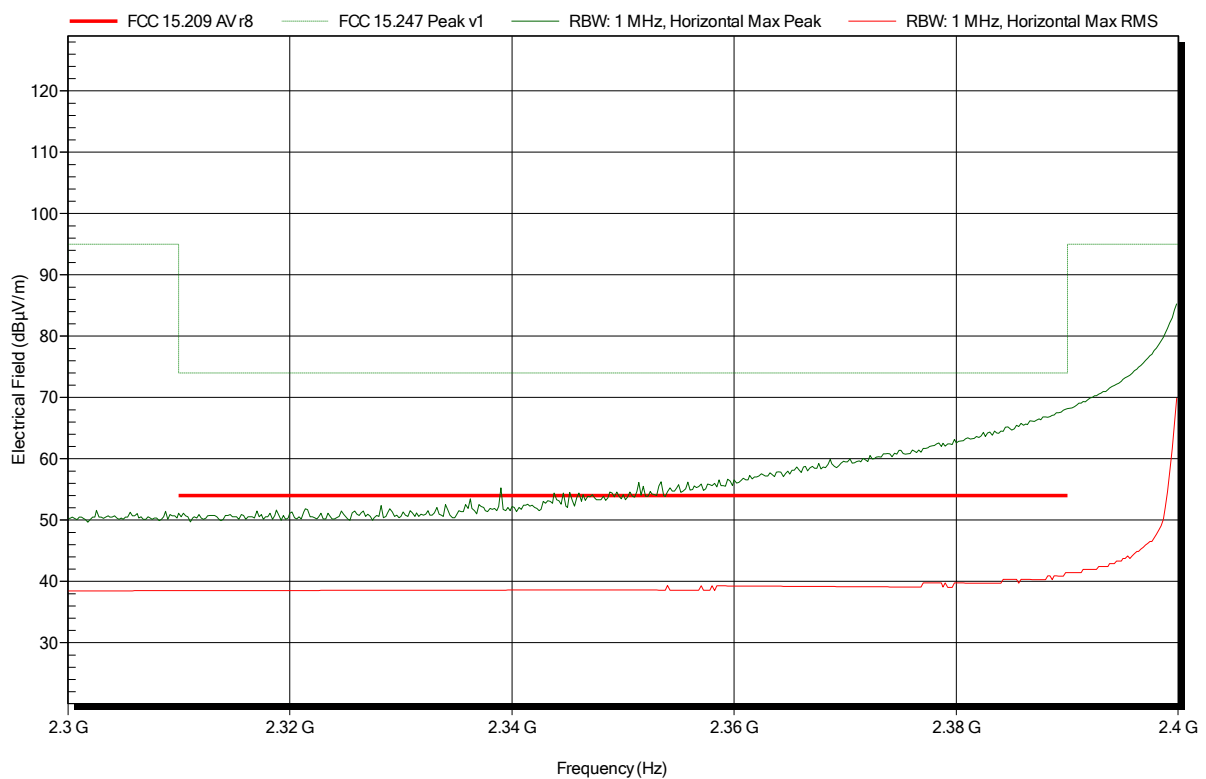


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Sebastian Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Horizontal  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2402 MHz  
Test Date: 2017-11-23  
Note: lower bandedge

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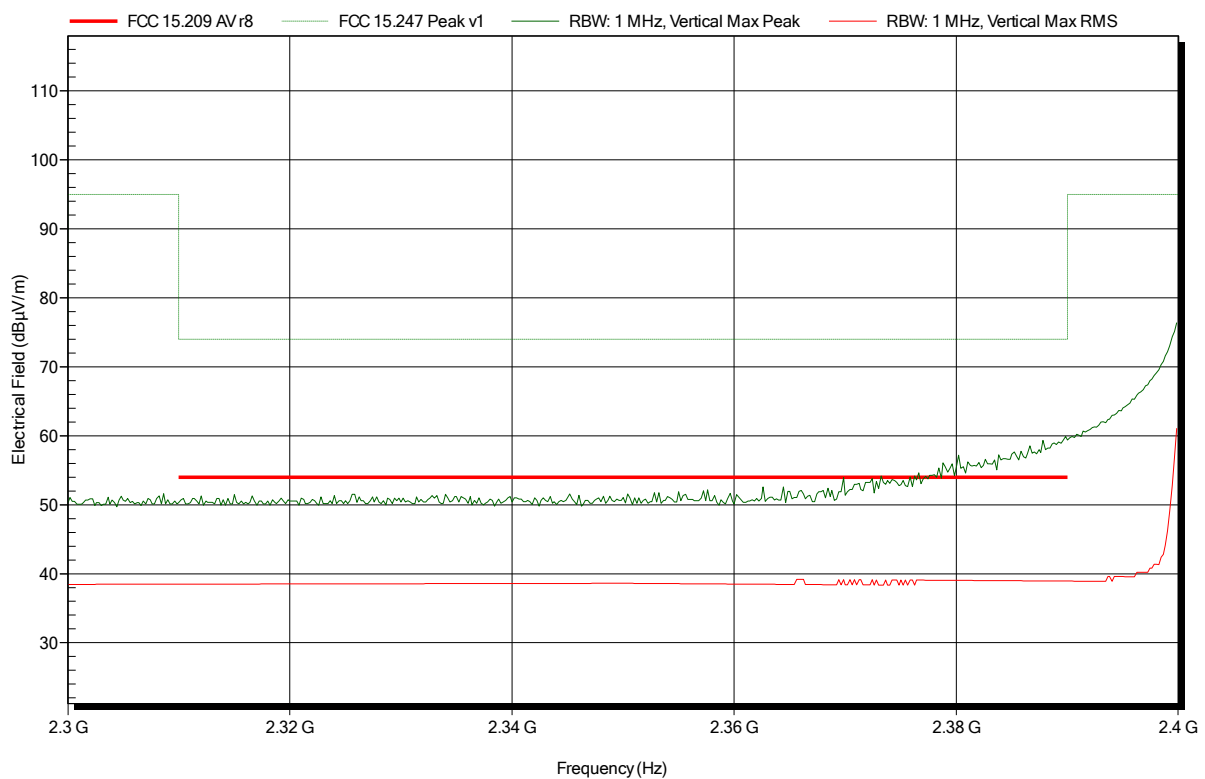


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Sebastian Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Vertical  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2402 MHz  
Test Date: 2017-11-23  
Note: lower bandedge

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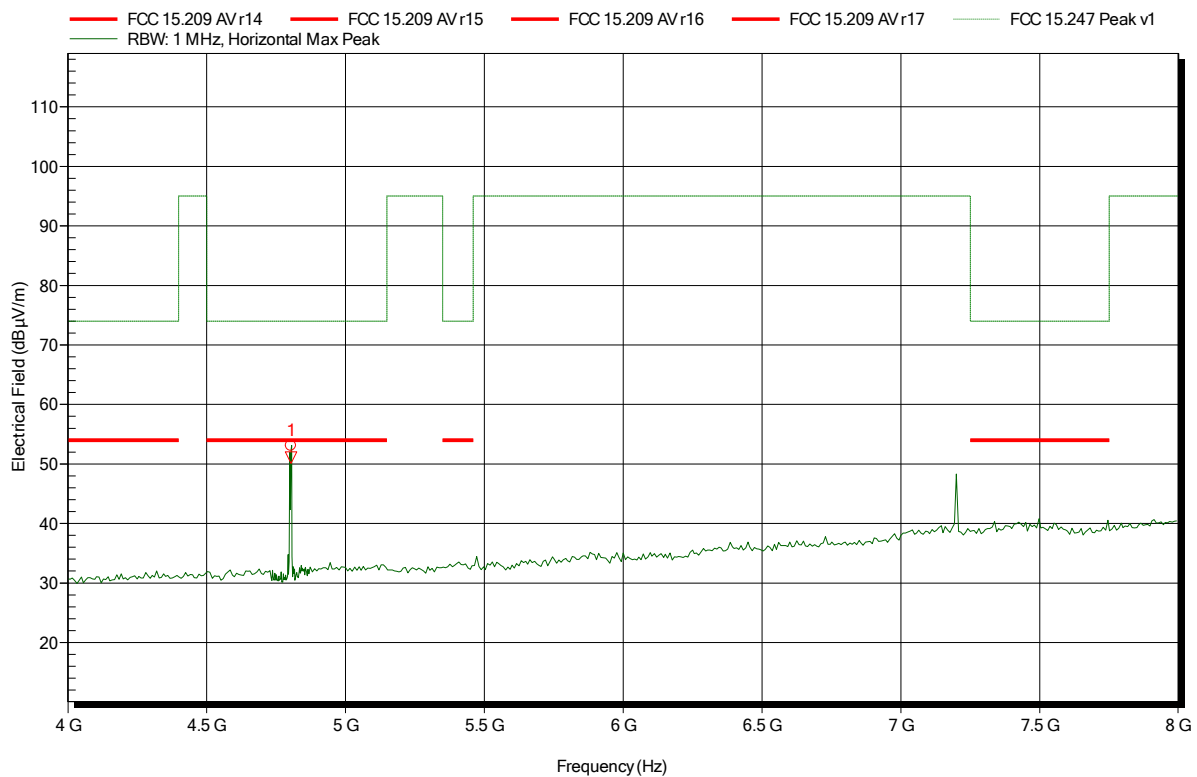


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Sebastian Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Horizontal  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2402 MHz  
Test Date: 2017-11-23  
Note:

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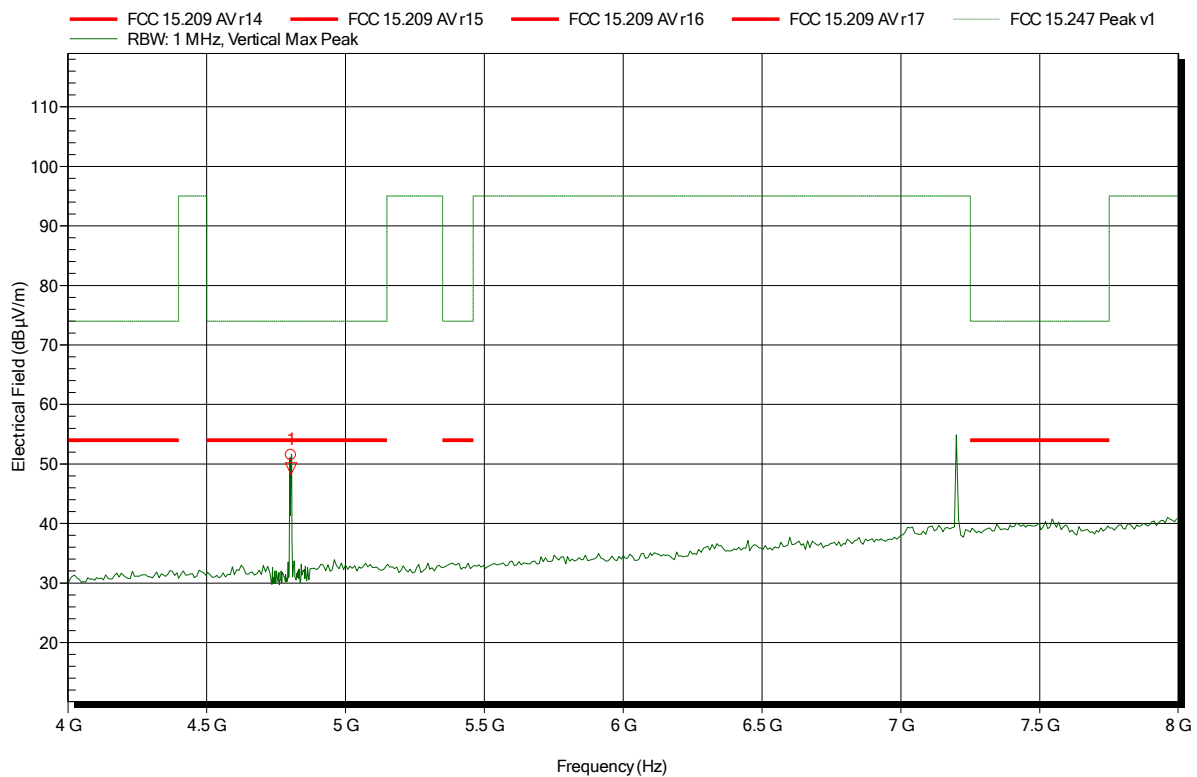
|           |              |            |                 |             |
|-----------|--------------|------------|-----------------|-------------|
| Frequency | Peak         | Peak Limit | Peak Difference | Peak Status |
| 4.804 GHz | 53.08 dBμV/m | 74 dBμV/m  | -20.92 dB       | Pass        |
| Frequency | RMS          | RMS Limit  | RMS Difference  | RMS Status  |
| 4.804 GHz | 51.06 dBμV/m | 54 dBμV/m  | -2.94 dB        | Pass        |

## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
 EUT Name: Laser Rangefinder  
 Model: GLM 400CL  
 Test Site: Eurofins Product Service GmbH  
 Operator: Sebastian Suckow  
 Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; BT LE 2402 MHz  
 Test Date: 2017-11-23  
 Note:

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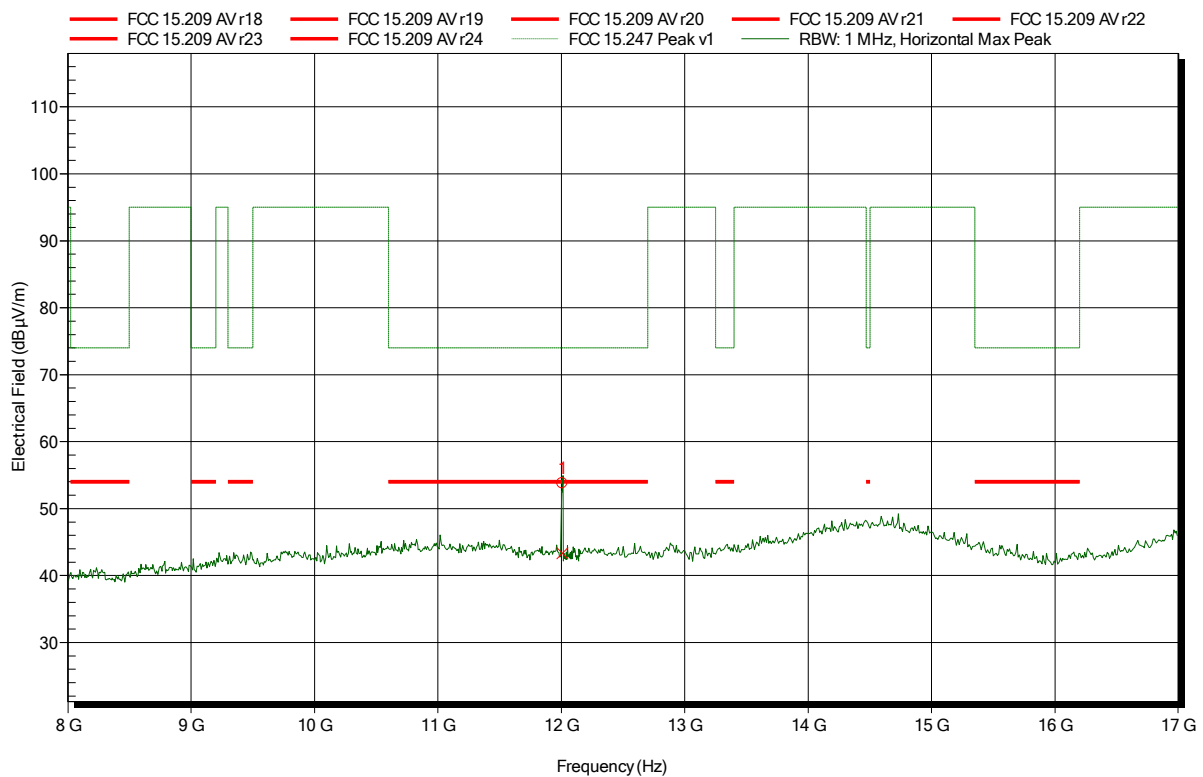
|           |              |            |                 |             |
|-----------|--------------|------------|-----------------|-------------|
| Frequency | Peak         | Peak Limit | Peak Difference | Peak Status |
| 4.804 GHz | 51.48 dBµV/m | 74 dBµV/m  | -22.52 dB       | Pass        |
| Frequency | RMS          | RMS Limit  | RMS Difference  | RMS Status  |
| 4.804 GHz | 49.26 dBµV/m | 54 dBµV/m  | -4.74 dB        | Pass        |

## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Sebastian Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Horizontal  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2402 MHz  
Test Date: 2017-11-23  
Note:

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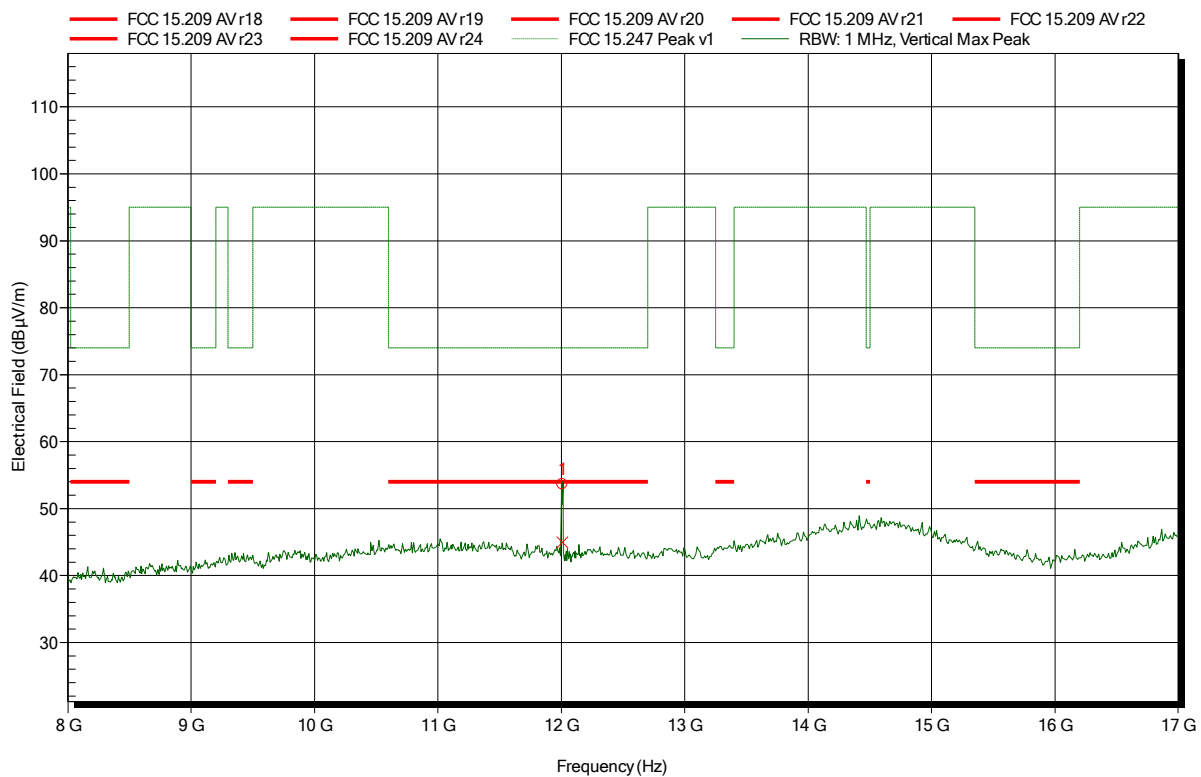
|            |              |               |                    |                |
|------------|--------------|---------------|--------------------|----------------|
| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    |
| 12.009 GHz | 53.8 dBµV/m  | 74 dBµV/m     | -20.2 dB           | Pass           |
| Frequency  | Average      | Average Limit | Average Difference | Average Status |
| 12.009 GHz | 43.32 dBµV/m | 54 dBµV/m     | -10.68 dB          | Pass           |

## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
 EUT Name: Laser Rangefinder  
 Model: GLM 400CL  
 Test Site: Eurofins Product Service GmbH  
 Operator: Sebastian Suckow  
 Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; BT LE 2402 MHz  
 Test Date: 2017-11-23  
 Note:

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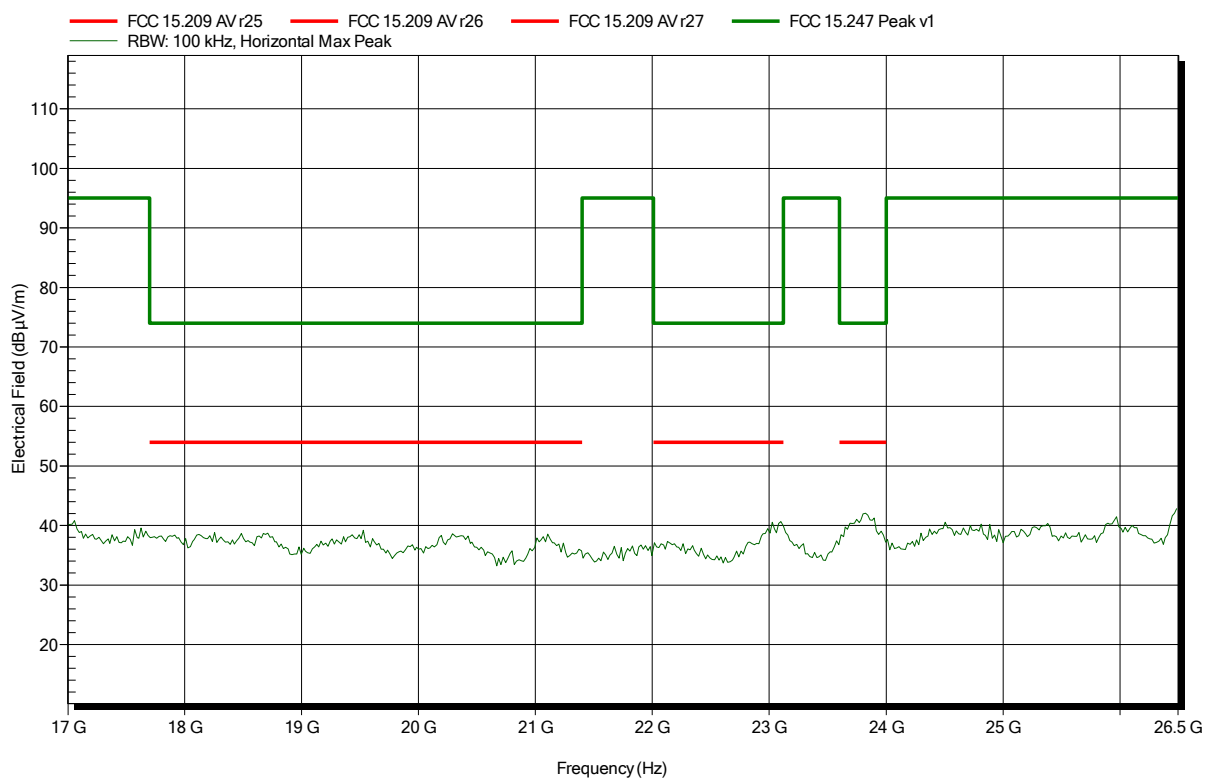
|            |              |               |                    |                |
|------------|--------------|---------------|--------------------|----------------|
| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    |
| 12.009 GHz | 53.62 dBµV/m | 74 dBµV/m     | -20.38 dB          | Pass           |
| Frequency  | Average      | Average Limit | Average Difference | Average Status |
| 12.009 GHz | 44.97 dBµV/m | 54 dBµV/m     | -9.03 dB           | Pass           |

## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: ATH18G40, Horizontal  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2402 MHz  
Test Date: 2017-12-12  
Note:

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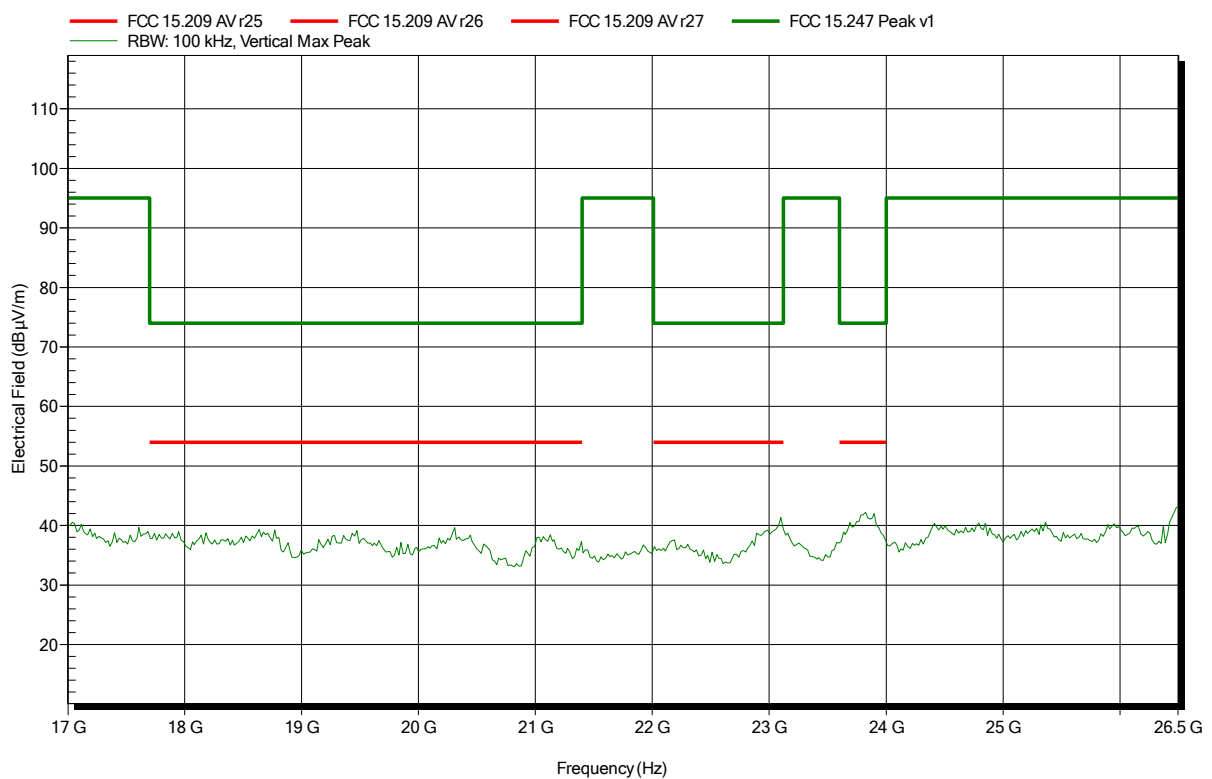


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: ATH18G40, Vertical  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2402 MHz  
Test Date: 2017-12-12  
Note:

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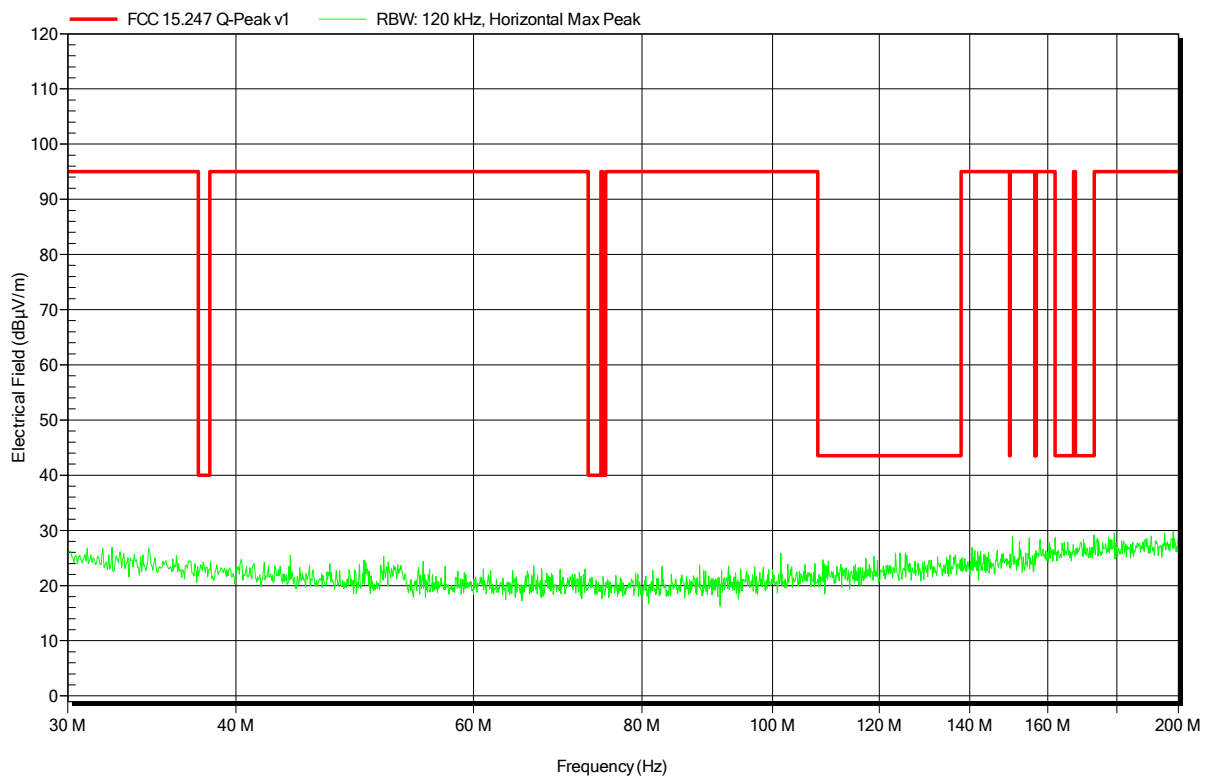


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 21°C, Vnom: 3.6 VDC  
Antenna: Rohde & Schwarz HK 116, Horizontal  
Measurement distance: 3 m  
Mode: TX; BT LE 2440 MHz  
Test Date: 2017-12-13  
Note:

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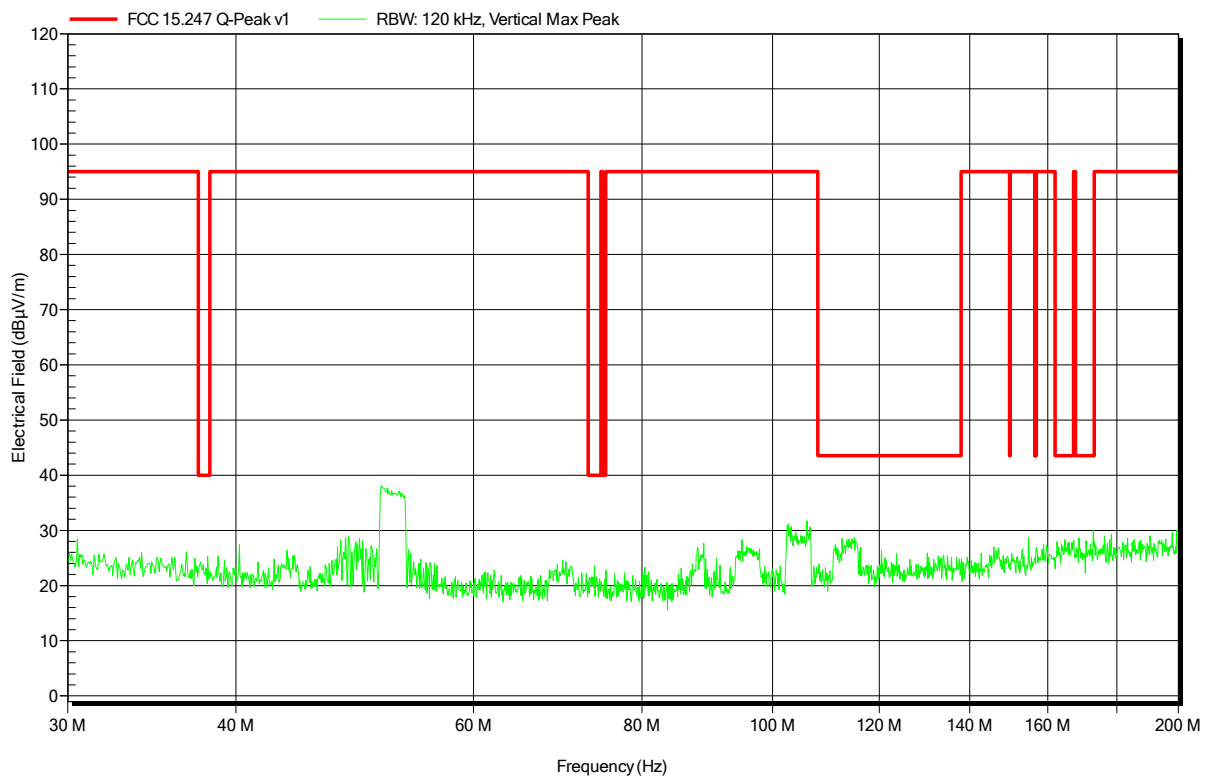


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 21°C, Vnom: 3.6 VDC  
Antenna: Rohde & Schwarz HK 116, Vertical  
Measurement distance: 3 m  
Mode: TX; BT LE 2440 MHz  
Test Date: 2017-12-13  
Note:

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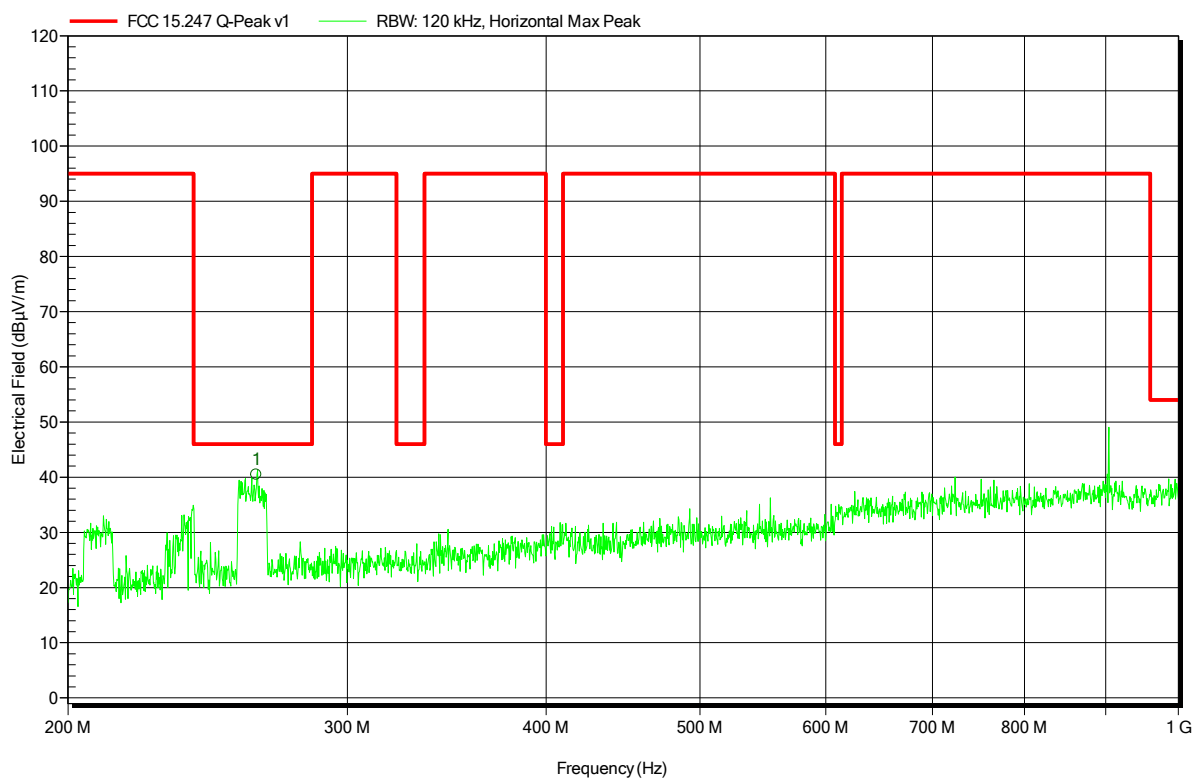


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 21°C, Vnom: 3.6 VDC  
Antenna: Rohde & Schwarz HL 223, Horizontal  
Measurement distance: 3 m  
Mode: TX; BT LE 2440 MHz  
Test Date: 2017-12-13  
Note:

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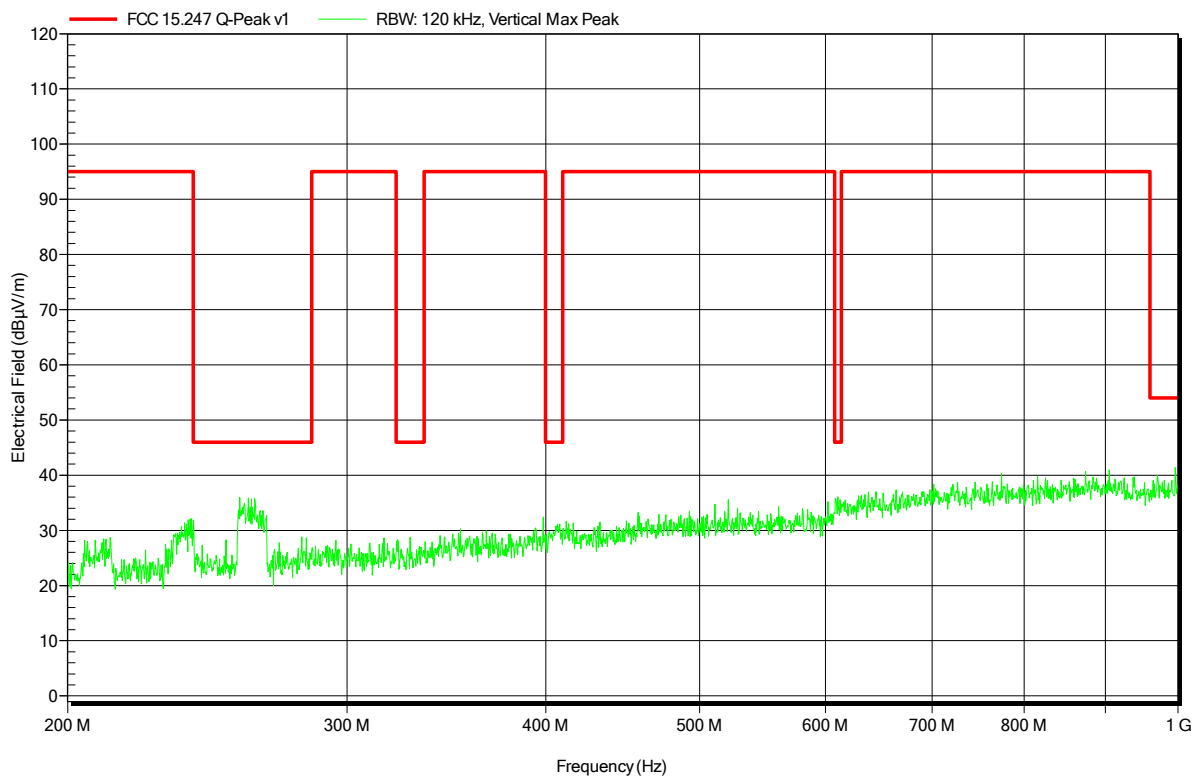
| Frequency | Peak        | Peak Limit | Peak Difference | Status |
|-----------|-------------|------------|-----------------|--------|
| 262.9 MHz | 40.4 dBµV/m | 46 dBµV/m  | -5.57 dB        | Pass   |

## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

|                       |                                  |
|-----------------------|----------------------------------|
| Applicant:            | Robert Bosch Tool Corporation    |
| EUT Name:             | Laser Rangefinder                |
| Model:                | GLM400CL                         |
| Test Site:            | Eurofins Product Service GmbH    |
| Operator:             | Mr. Suckow                       |
| Test Conditions:      | Tnom: 21°C, Vnom: 3.6 VDC        |
| Antenna:              | Rohde & Schwarz HL 223, Vertical |
| Measurement distance: | 3 m                              |
| Mode:                 | TX; BT LE 2440 MHz               |
| Test Date:            | 2017-12-13                       |
| Note:                 |                                  |

Index 3

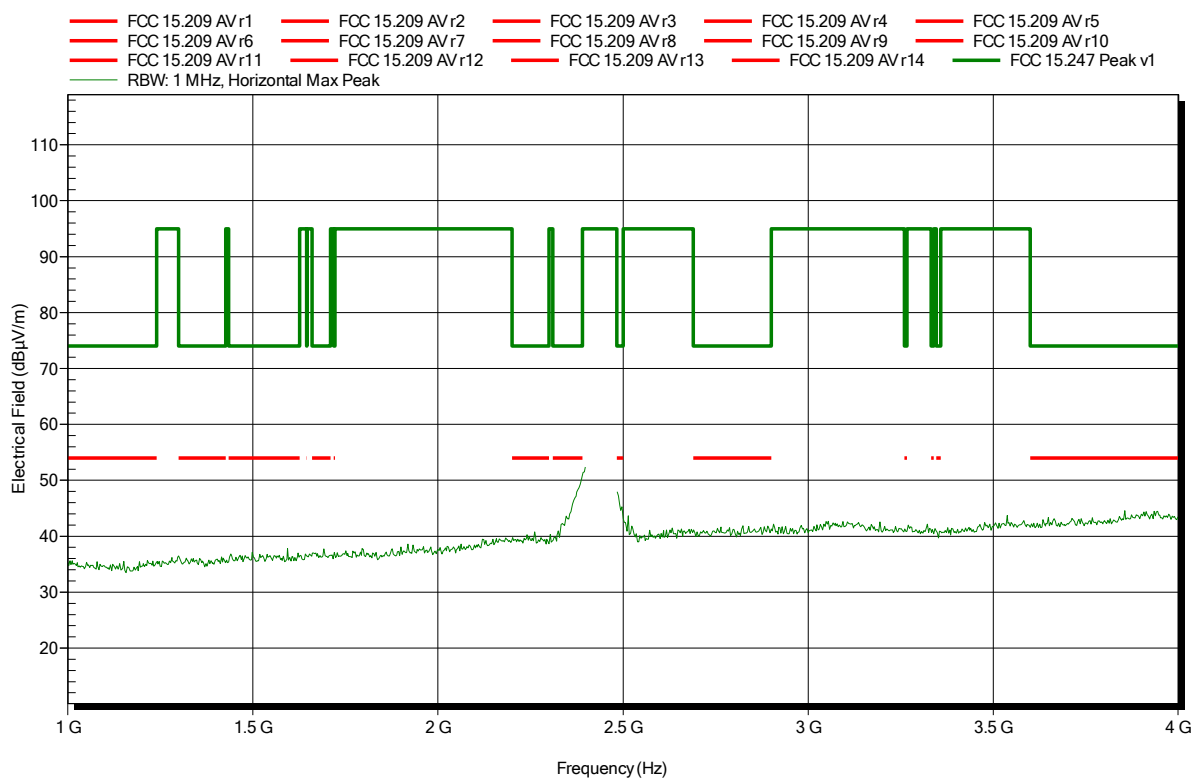


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Horizontal  
Measurement distance: 3 m  
Mode: TX; BT LE 2440 MHz  
Test Date: 2017-12-12  
Note:

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## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation

EUT Name: Laser Rangefinder

Model: GLM 400CL

Test Site: Eurofins Product Service GmbH

Operator: Mr. Suckow

Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC

Antenna: Schwarzbeck BBHA 9120D, Vertical

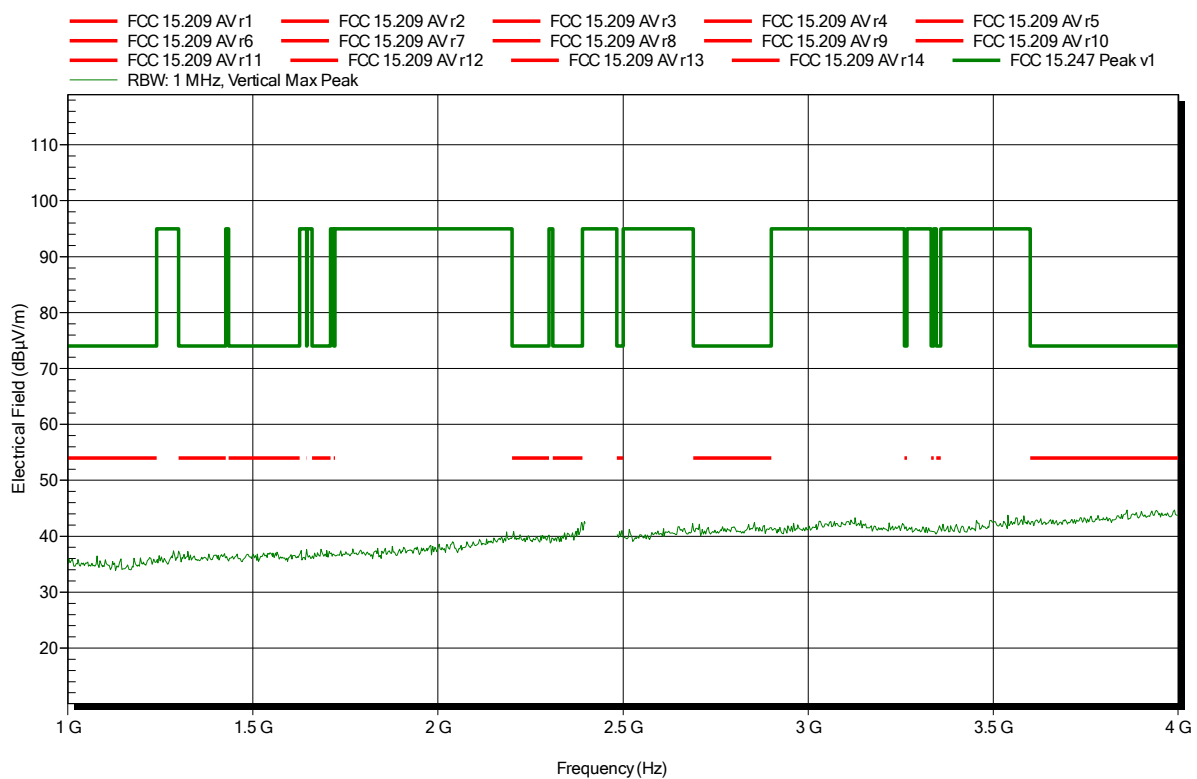
Measurement distance: 3 m

Mode: TX; BT LE 2440 MHz

Test Date: 2017-12-12

Note:

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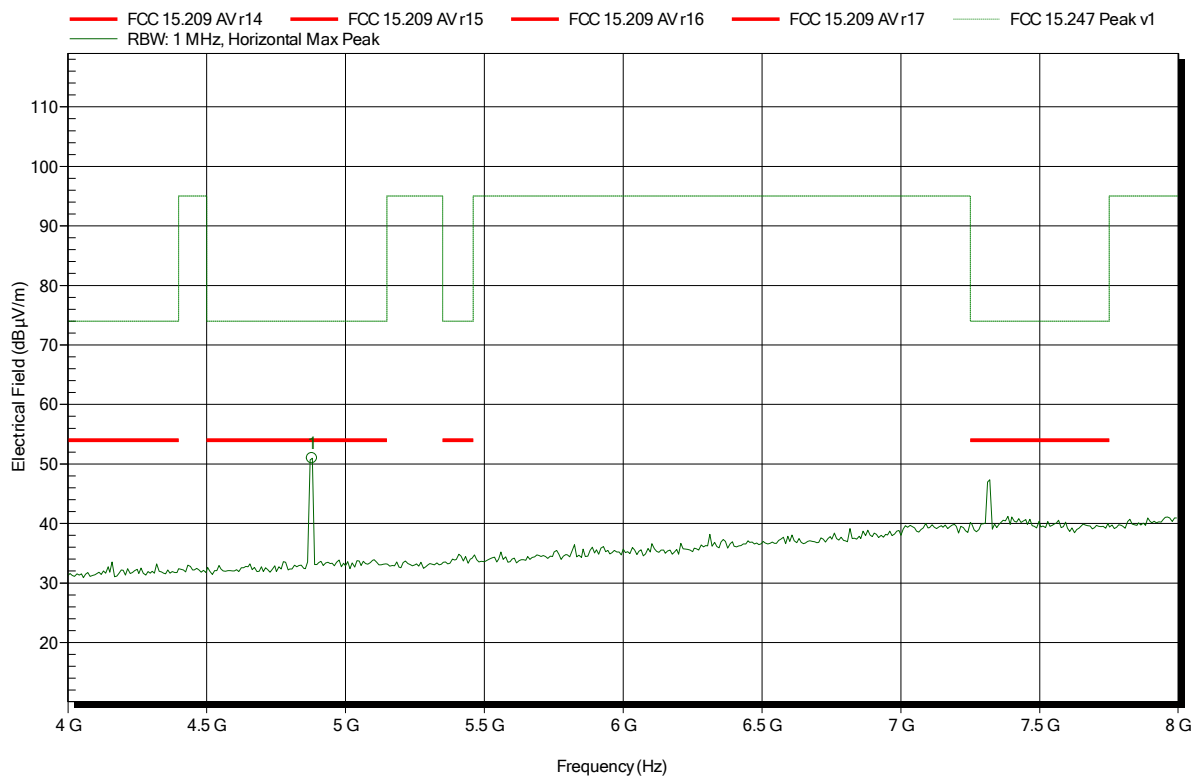


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Sebastian Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Horizontal  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2440 MHz  
Test Date: 2017-11-24  
Note:

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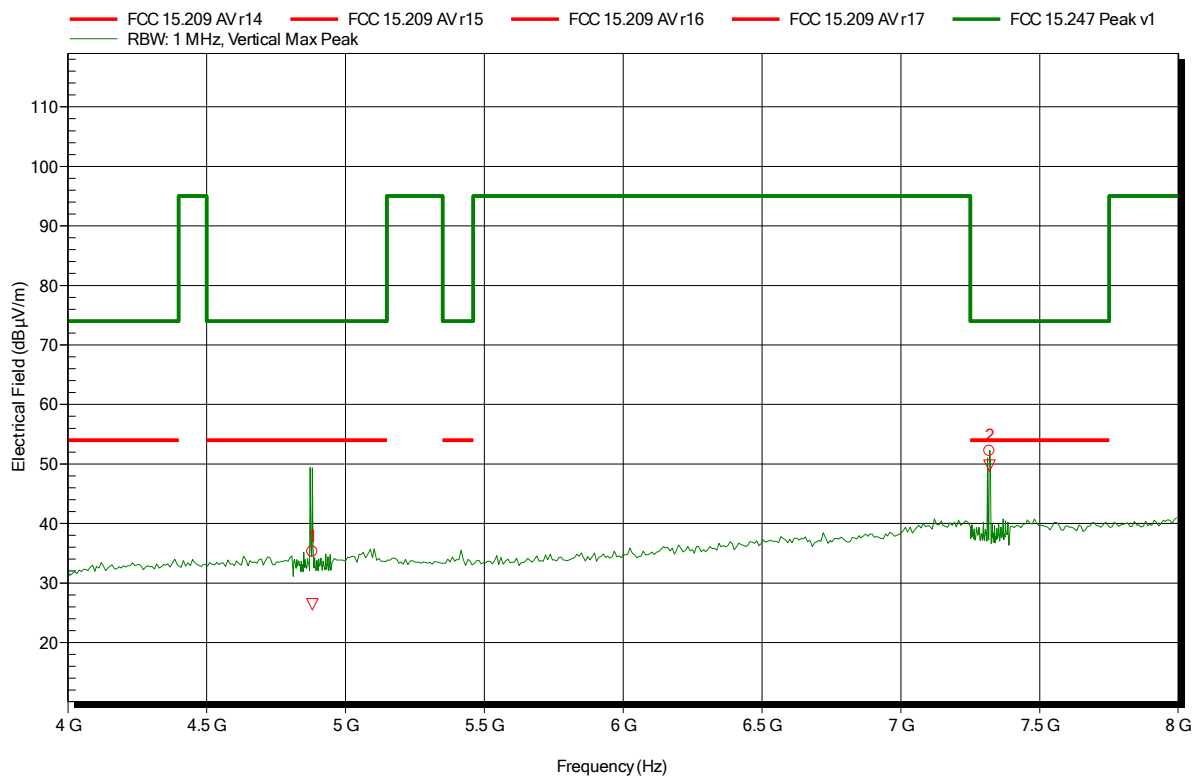
| Frequency | Peak         | Peak Limit | Peak Difference | Peak Status |
|-----------|--------------|------------|-----------------|-------------|
| 4.88 GHz  | 50.98 dBµV/m | 74 dBµV/m  | -23.02 dB       | Pass        |

## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
 EUT Name: Laser Rangefinder  
 Model: GLM 400CL  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Suckow  
 Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; BT LE 2440 MHz  
 Test Date: 2017-12-12  
 Note:

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| Frequency | Peak         | Peak Limit | Peak Difference | Peak Status |
|-----------|--------------|------------|-----------------|-------------|
| 4.881 GHz | 35.25 dBµV/m | 74 dBµV/m  | -38.75 dB       | Pass        |
| 7.319 GHz | 52.19 dBµV/m | 74 dBµV/m  | -21.81 dB       | Pass        |

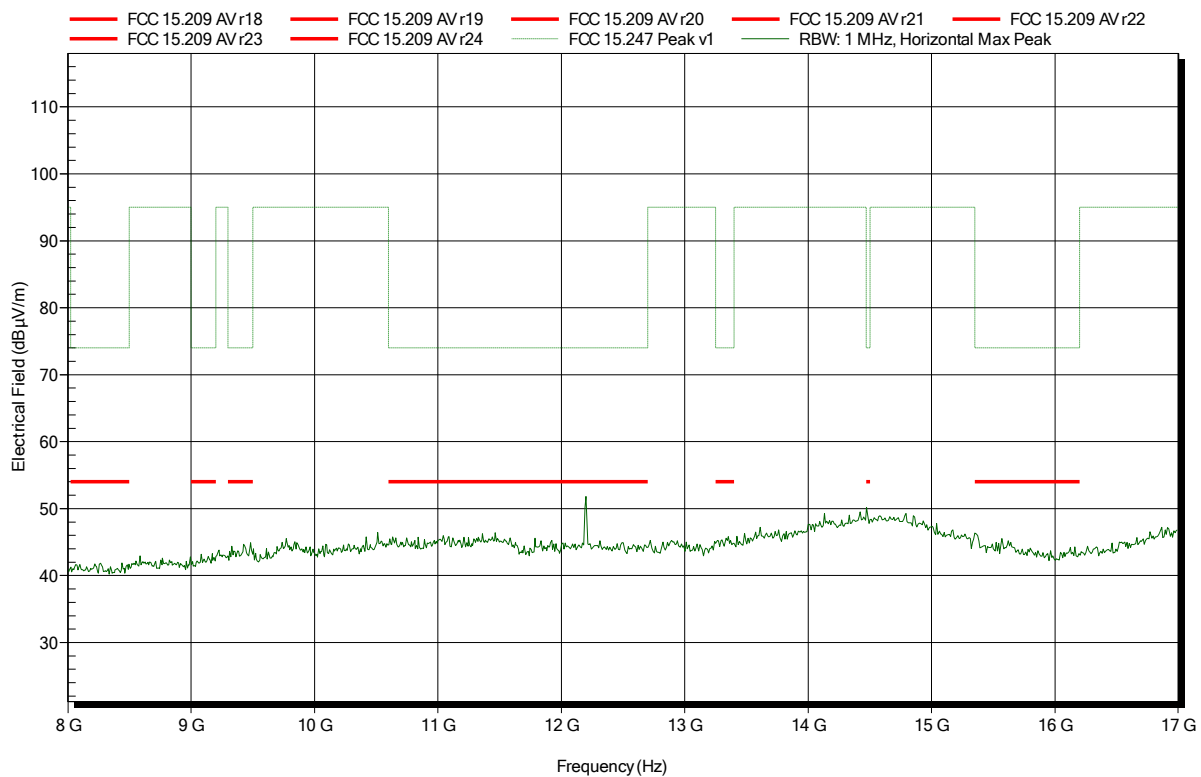
| Frequency | RMS          | RMS Limit | RMS Difference | RMS Status |
|-----------|--------------|-----------|----------------|------------|
| 4.881 GHz | 26.4 dBµV/m  | 54 dBµV/m | -27.6 dB       | Pass       |
| 7.319 GHz | 49.72 dBµV/m | 54 dBµV/m | -4.28 dB       | Pass       |

## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Sebastian Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Horizontal  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2440 MHz  
Test Date: 2017-11-24  
Note:

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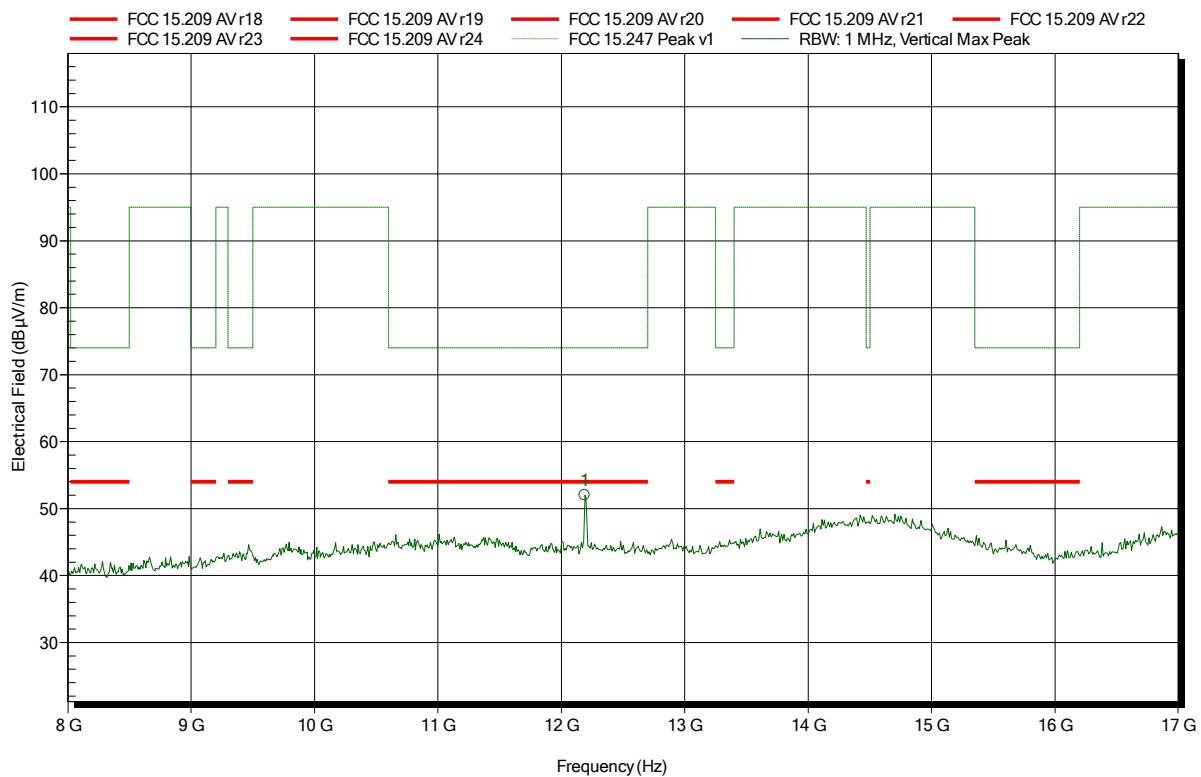


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Sebastian Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Vertical  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2440 MHz  
Test Date: 2017-11-24  
Note:

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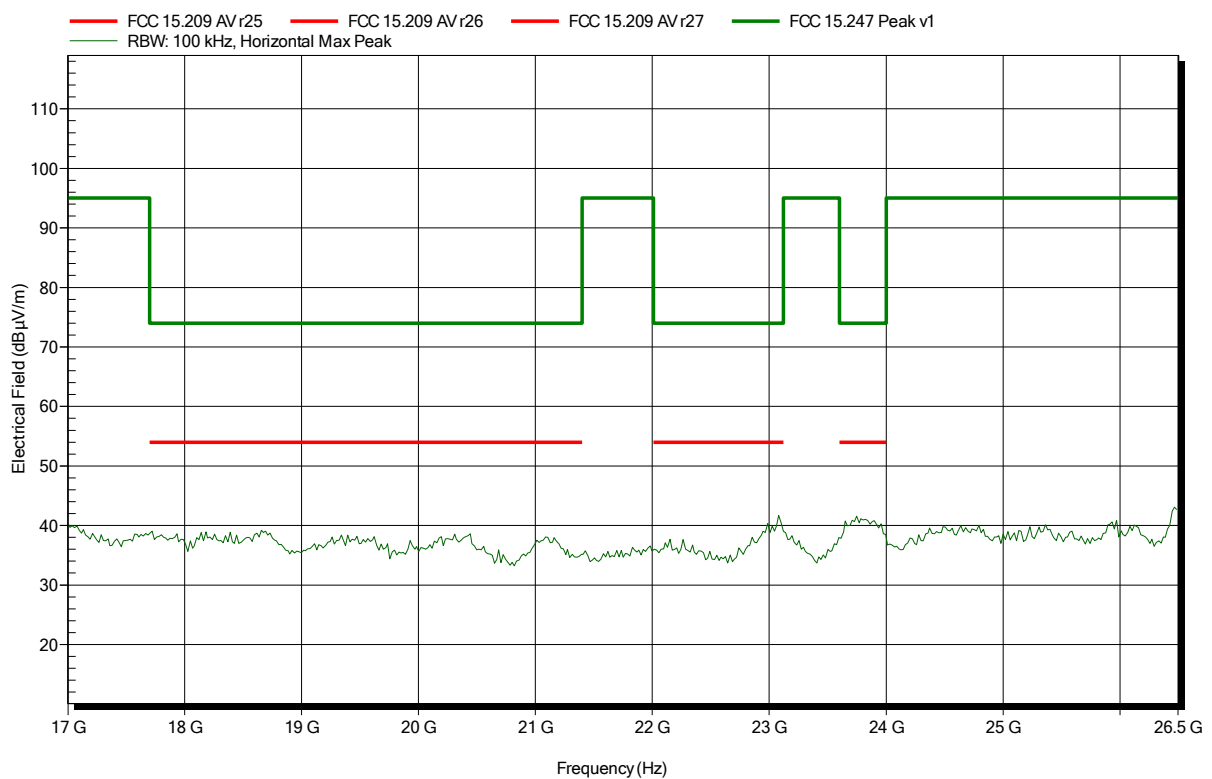
| Frequency | Peak         | Peak Limit | Peak Difference | Peak Status |
|-----------|--------------|------------|-----------------|-------------|
| 12.19 GHz | 51.98 dBµV/m | 74 dBµV/m  | -22.02 dB       | Pass        |

## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: ATH18G40, Horizontal  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2440 MHz  
Test Date: 2017-12-12  
Note:

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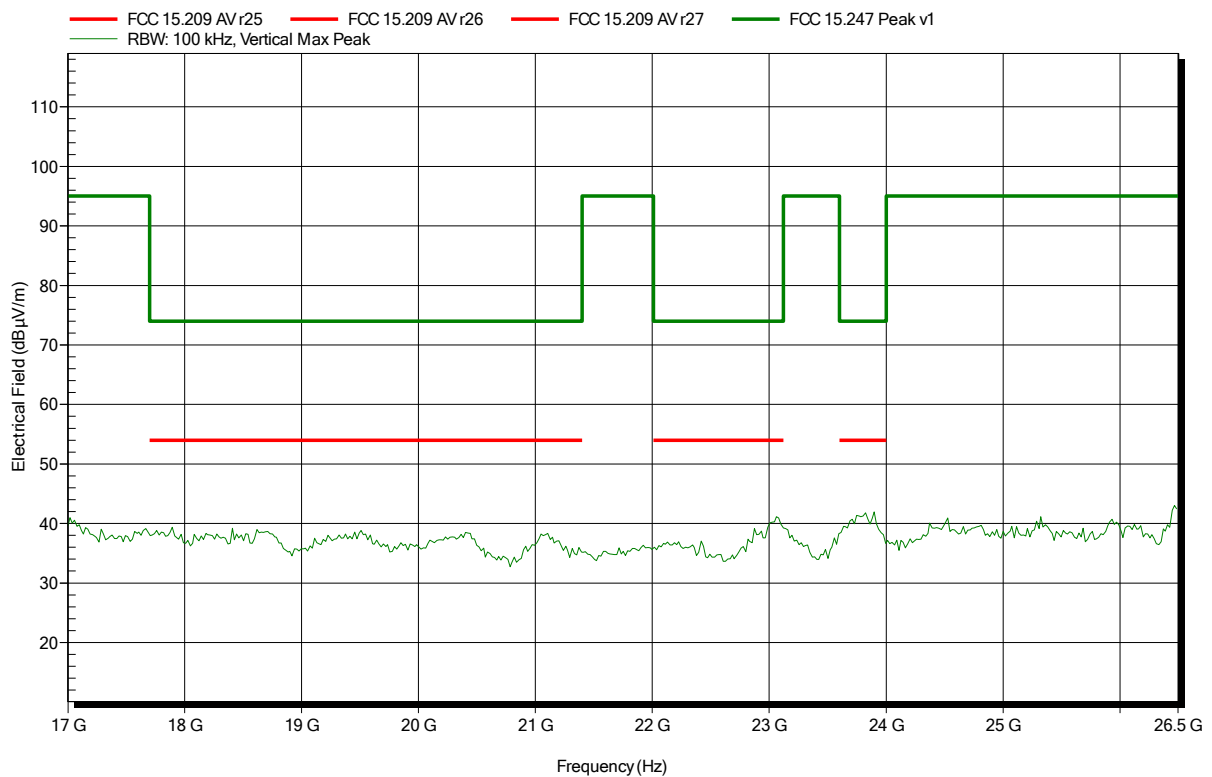


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: ATH18G40, Vertical  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2440 MHz  
Test Date: 2017-12-12  
Note:

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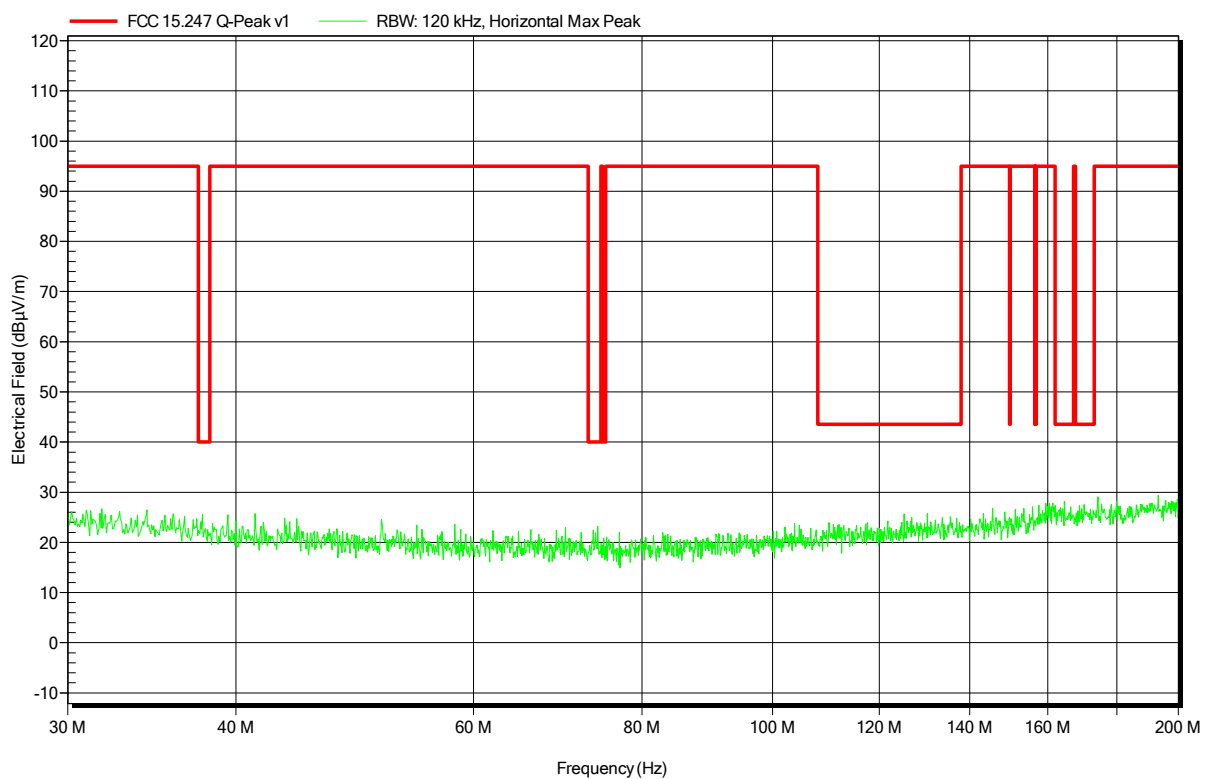


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 21°C, Vnom: 3.6 VDC  
Antenna: Rohde & Schwarz HK 116, Horizontal  
Measurement distance: 3 m  
Mode: TX; BT LE 2480 MHz  
Test Date: 2017-12-13  
Note:

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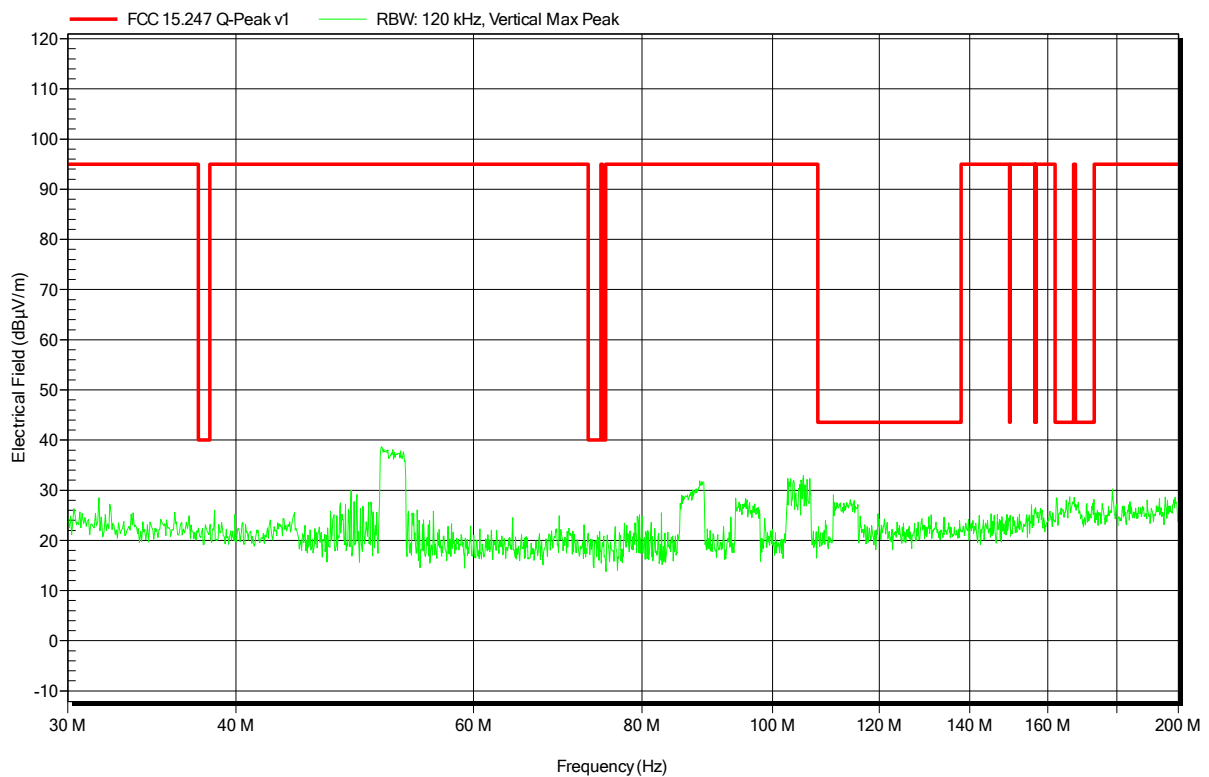


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 21°C, Vnom: 3.6 VDC  
Antenna: Rohde & Schwarz HK 116, Vertical  
Measurement distance: 3 m  
Mode: TX; BT LE 2480 MHz  
Test Date: 2017-12-13  
Note:

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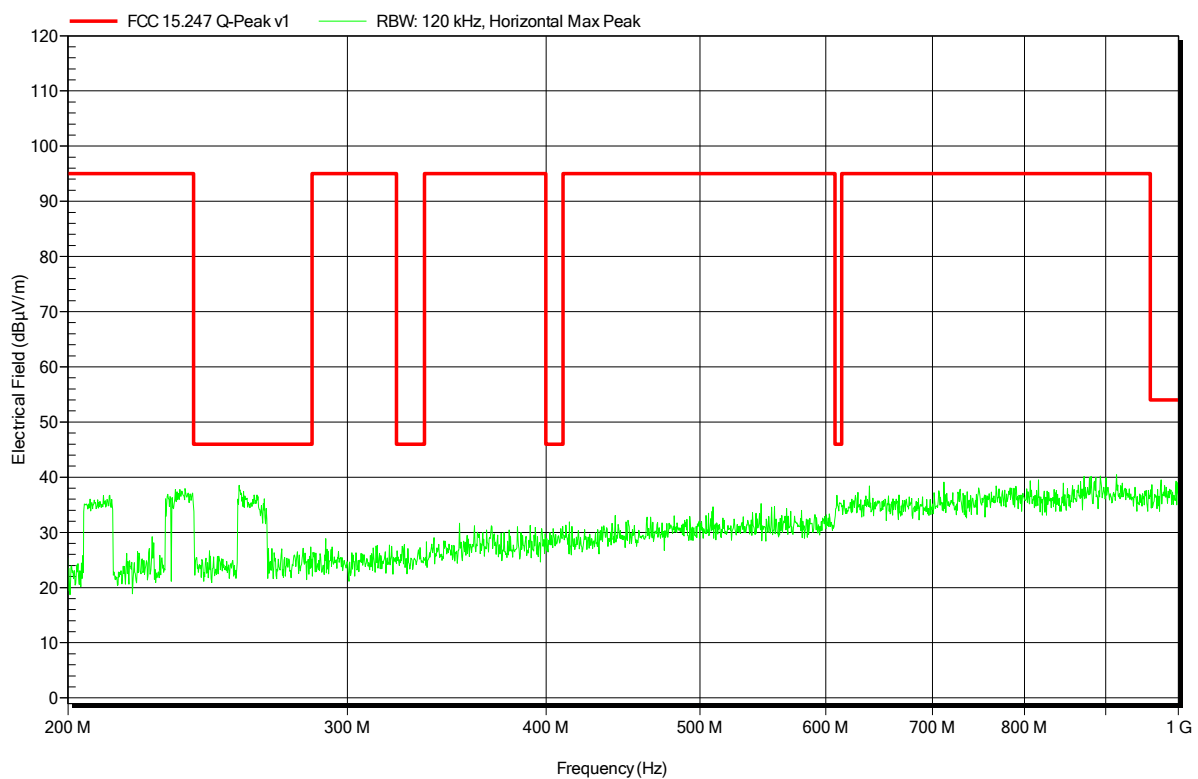


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 21°C, Vnom: 3.6 VDC  
Antenna: Rohde & Schwarz HL 223, Horizontal  
Measurement distance: 3 m  
Mode: TX; BT LE 2480 MHz  
Test Date: 2017-12-13  
Note:

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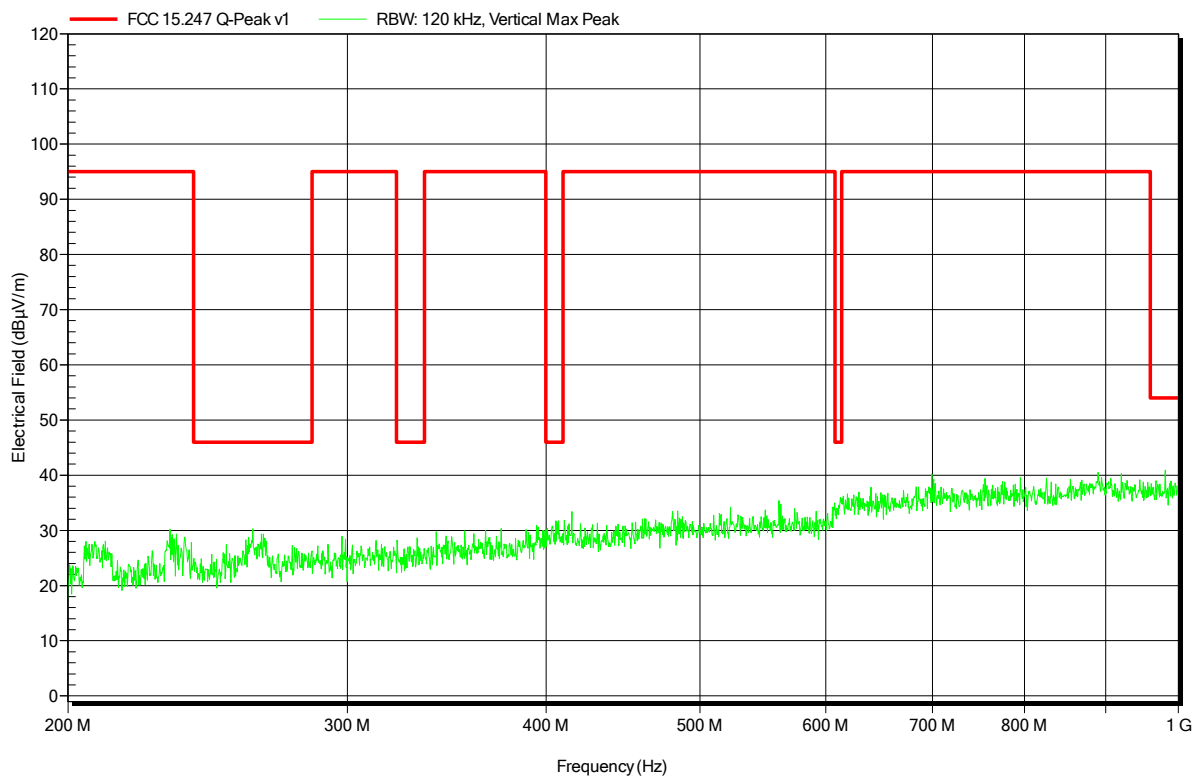


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 21°C, Vnom: 3.6 VDC  
Antenna: Rohde & Schwarz HL 223, Vertical  
Measurement distance: 3 m  
Mode: TX; BT LE 2480 MHz  
Test Date: 2017-12-13  
Note:

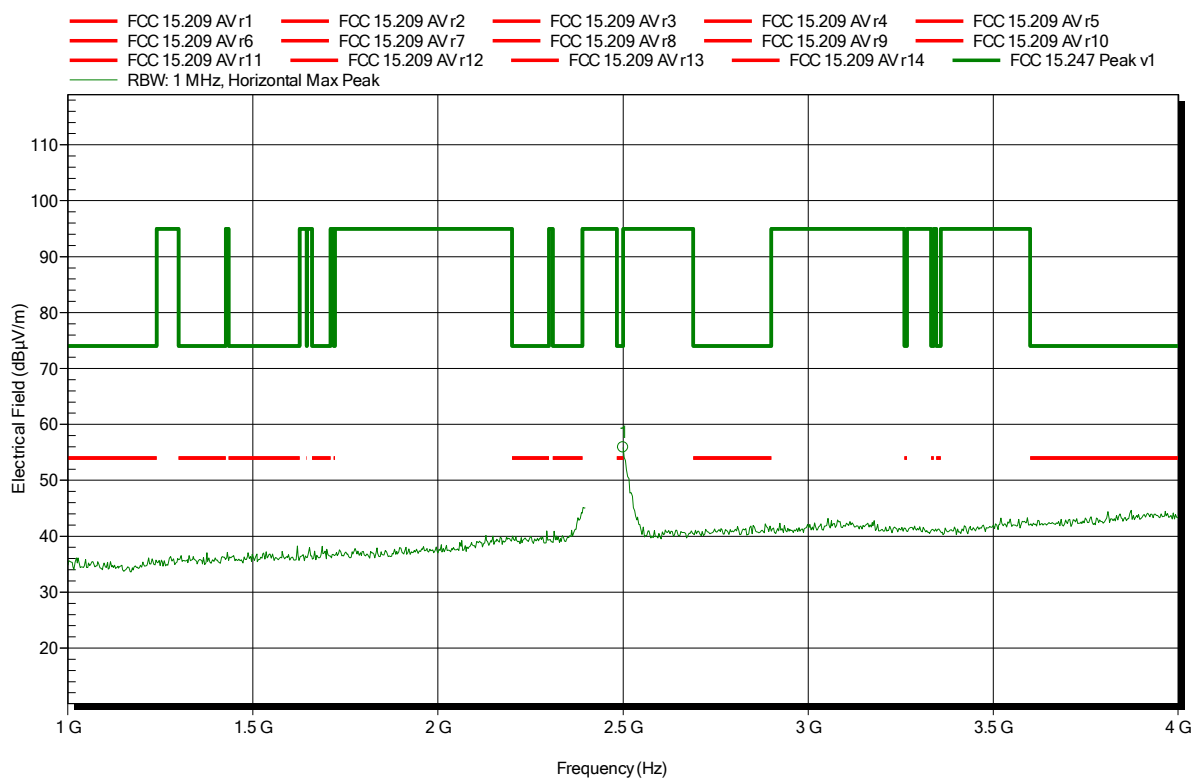
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## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514  
 Applicant: Robert Bosch Tool Corporation  
 EUT Name: Laser Rangefinder  
 Model: GLM 400CL  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Suckow  
 Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; BT LE 2480 MHz  
 Test Date: 2017-12-12  
 Note:

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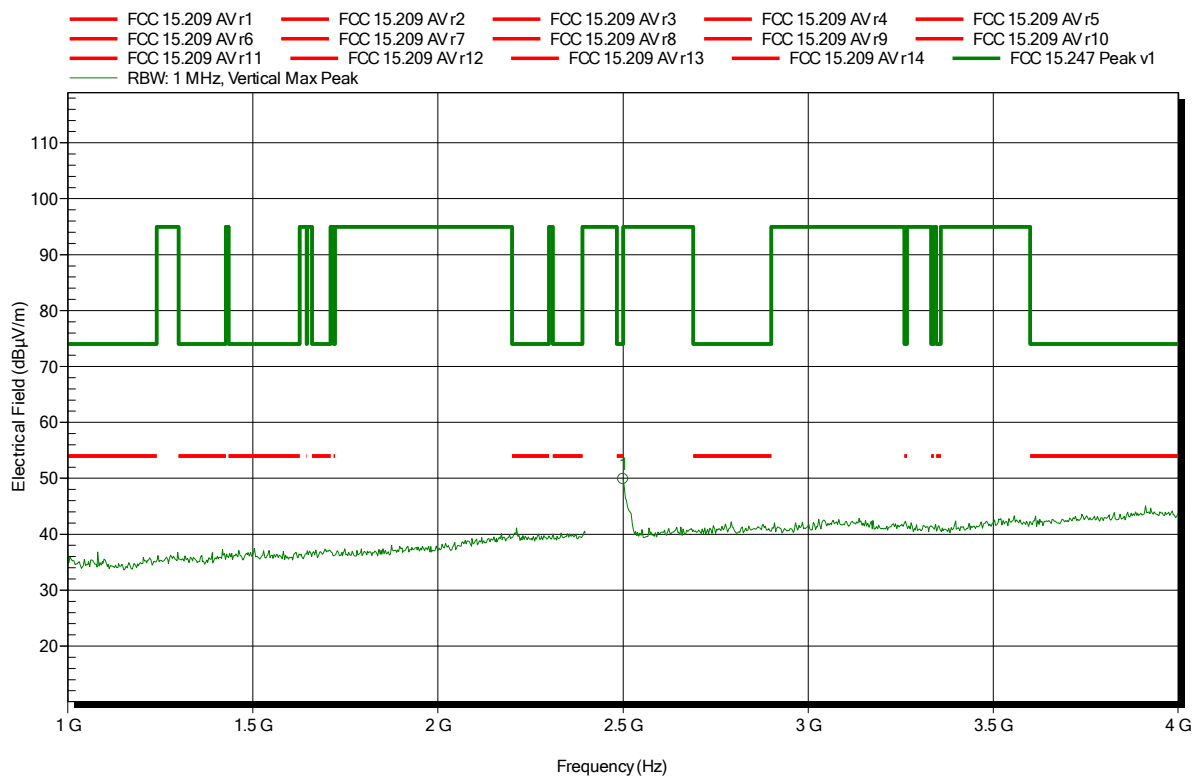
| Frequency | Peak         | Peak Limit | Peak Difference | Peak Status |
|-----------|--------------|------------|-----------------|-------------|
| 2.5 GHz   | 55.88 dBµV/m | 74 dBµV/m  | -18.12 dB       | Pass        |

## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Vertical  
Measurement distance: 3 m  
Mode: TX; BT LE 2480 MHz  
Test Date: 2017-12-12  
Note:

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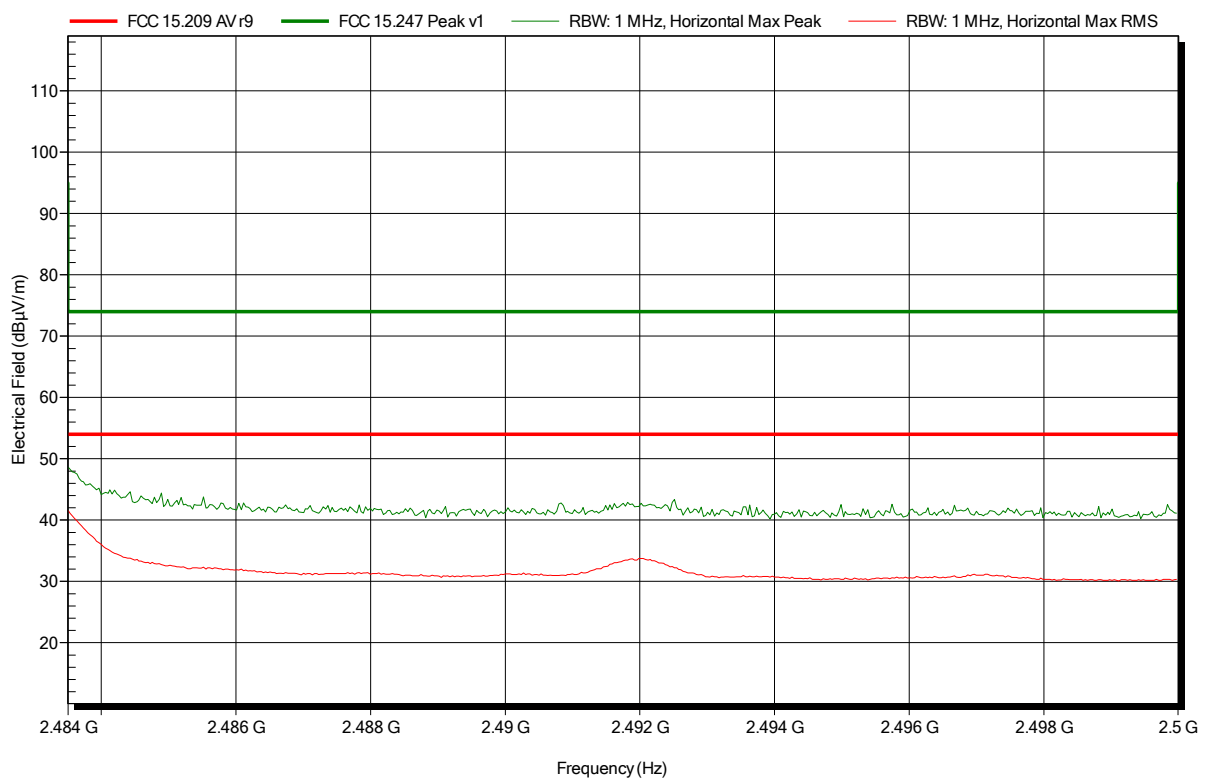
| Frequency | Peak         | Peak Limit | Peak Difference | Peak Status |
|-----------|--------------|------------|-----------------|-------------|
| 2.5 GHz   | 49.87 dBμV/m | 74 dBμV/m  | -24.13 dB       | Pass        |

## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Horizontal  
Measurement distance: 3 m  
Mode: TX; BT LE 2480 MHz  
Test Date: 2017-12-12  
Note: higher bandedge

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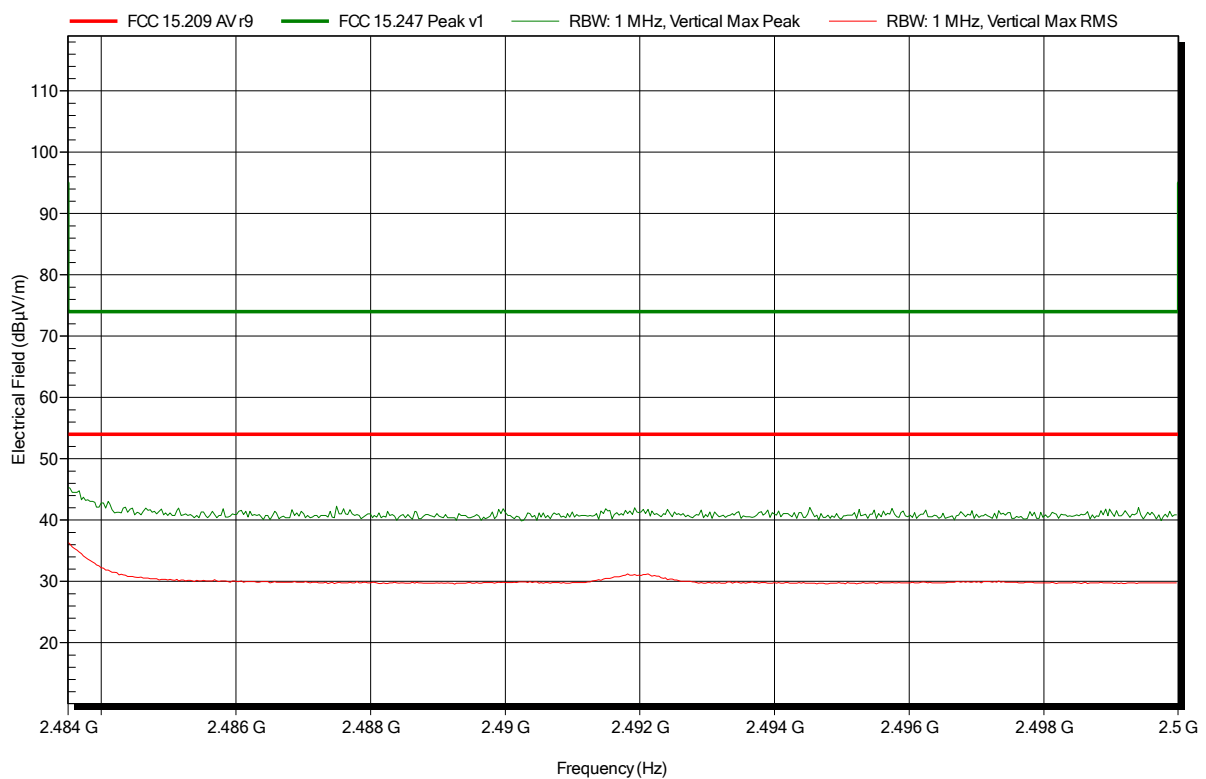


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
 EUT Name: Laser Rangefinder  
 Model: GLM 400CL  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Suckow  
 Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; BT LE 2480 MHz  
 Test Date: 2017-12-12  
 Note: higher bandedge

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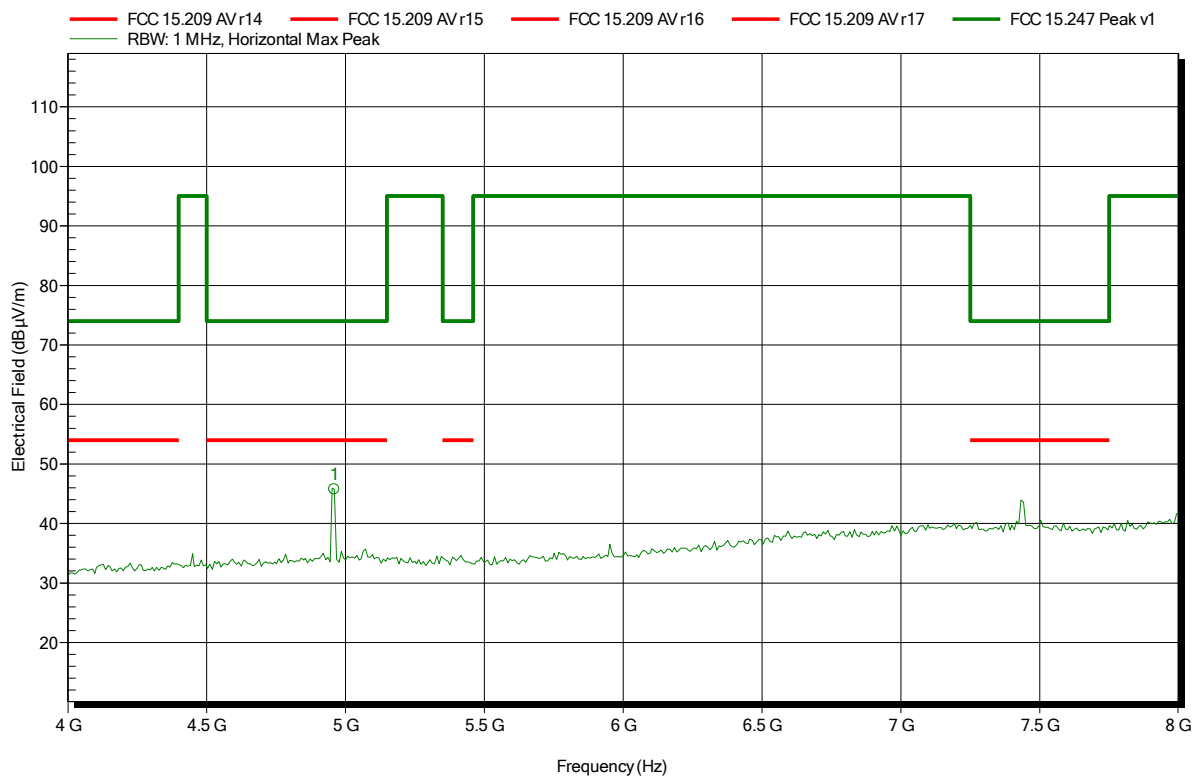


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Horizontal  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2480 MHz  
Test Date: 2017-12-12  
Note:

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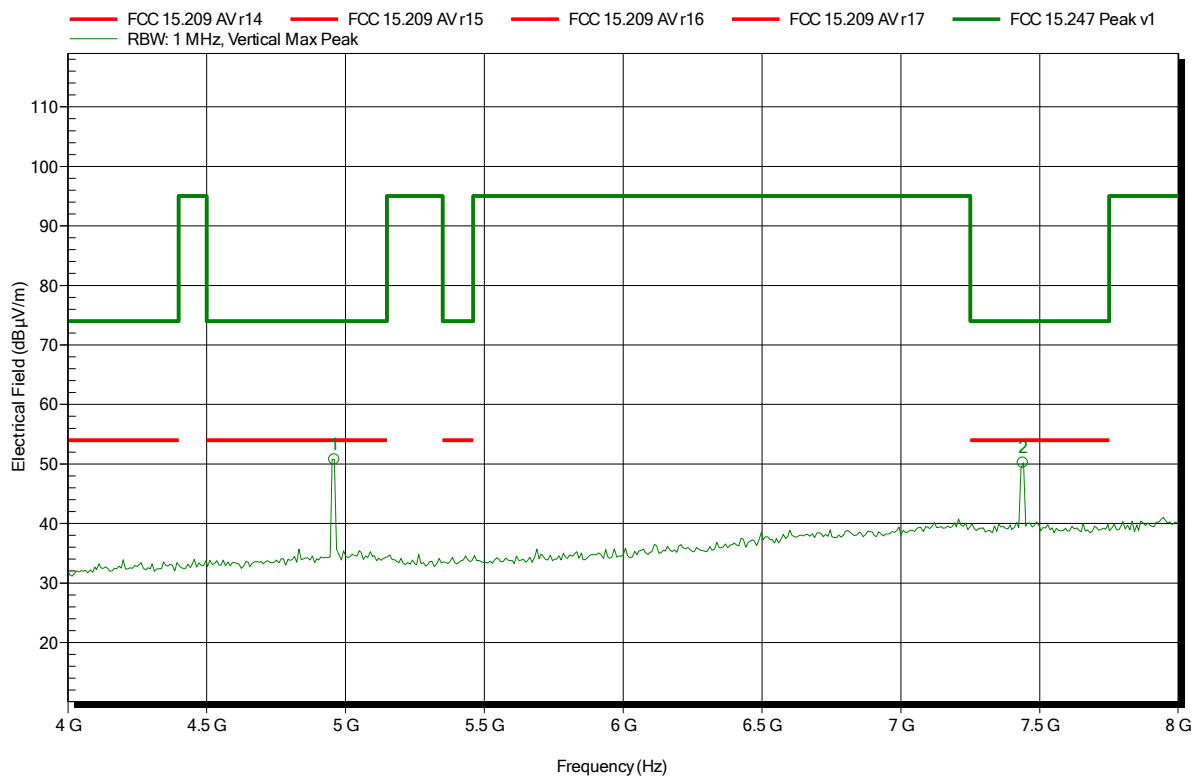
| Frequency | Peak         | Peak Limit | Peak Difference | Peak Status |
|-----------|--------------|------------|-----------------|-------------|
| 4.96 GHz  | 45.71 dBµV/m | 74 dBµV/m  | -28.29 dB       | Pass        |

## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Vertical  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2480 MHz  
Test Date: 2017-12-12  
Note:

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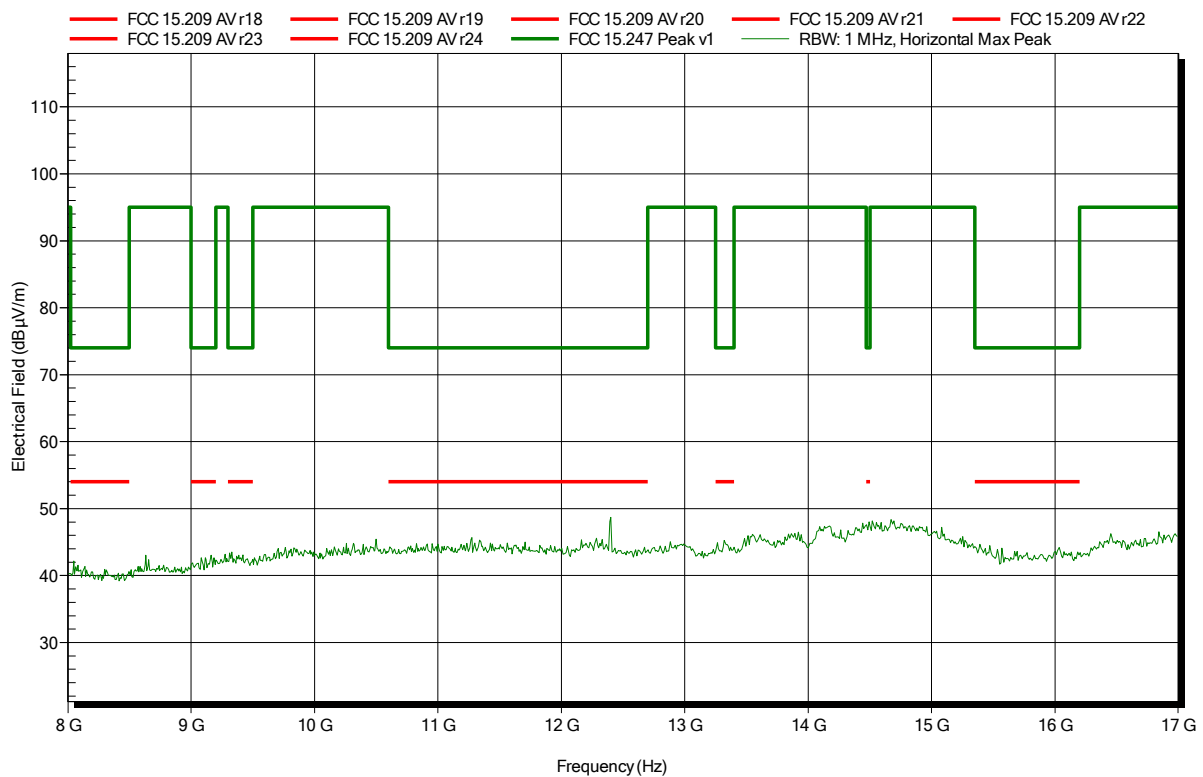
| Frequency | Peak         | Peak Limit | Peak Difference | Peak Status |
|-----------|--------------|------------|-----------------|-------------|
| 4.96 GHz  | 50.74 dBµV/m | 74 dBµV/m  | -23.26 dB       | Pass        |
| 7.44 GHz  | 50.22 dBµV/m | 74 dBµV/m  | -23.78 dB       | Pass        |

## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Horizontal  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2480 MHz  
Test Date: 2017-12-12  
Note:

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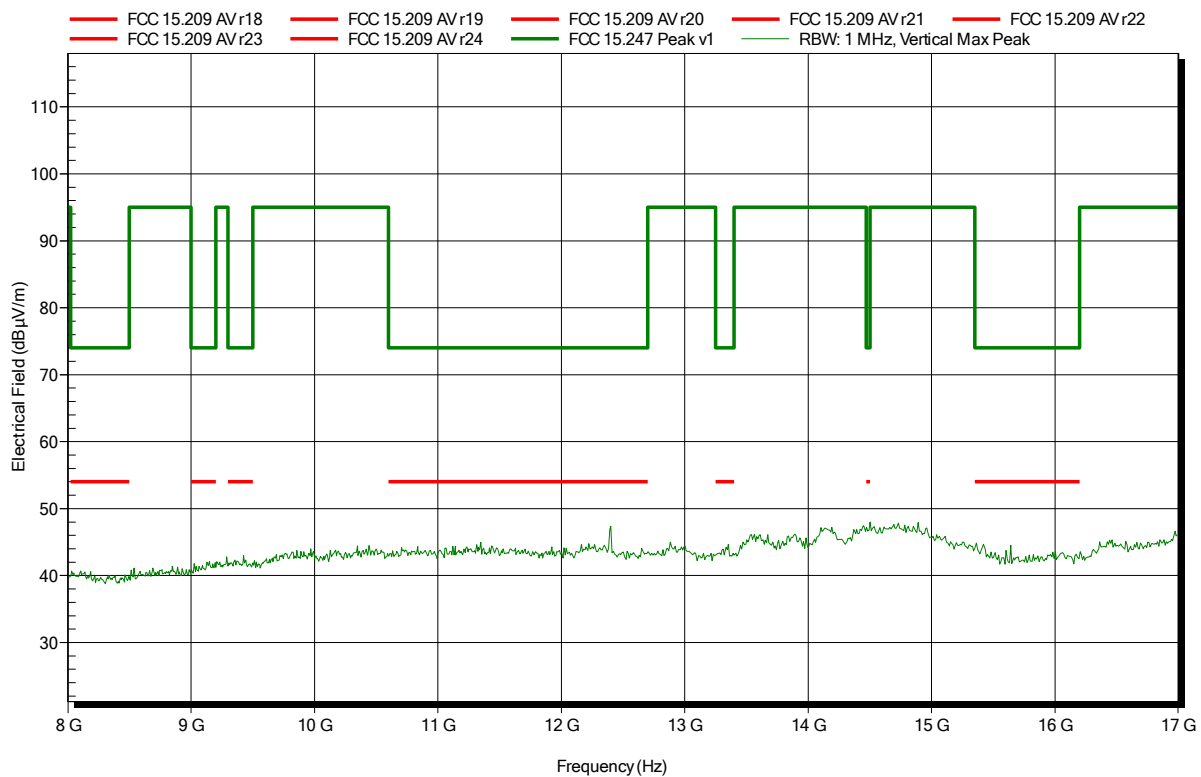


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: Schwarzbeck BBHA 9120D, Vertical  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2480 MHz  
Test Date: 2017-12-12  
Note:

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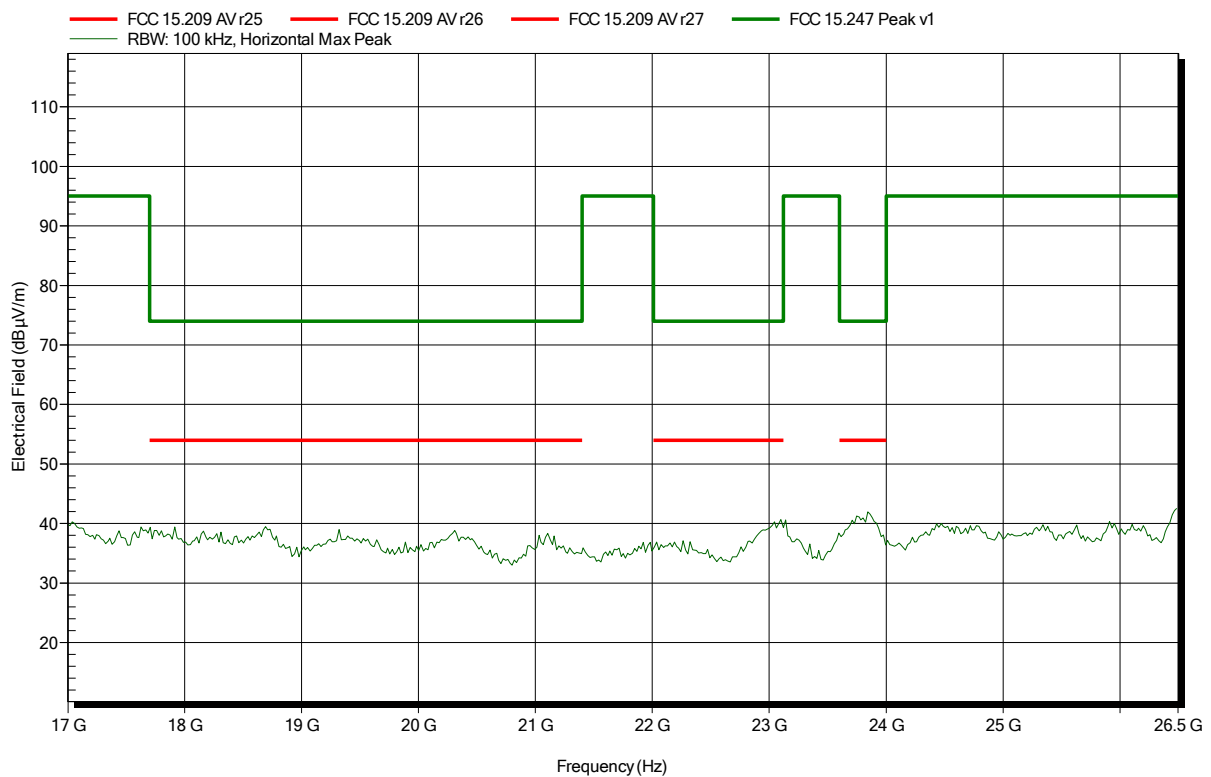


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: ATH18G40, Horizontal  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2480 MHz  
Test Date: 2017-12-12  
Note:

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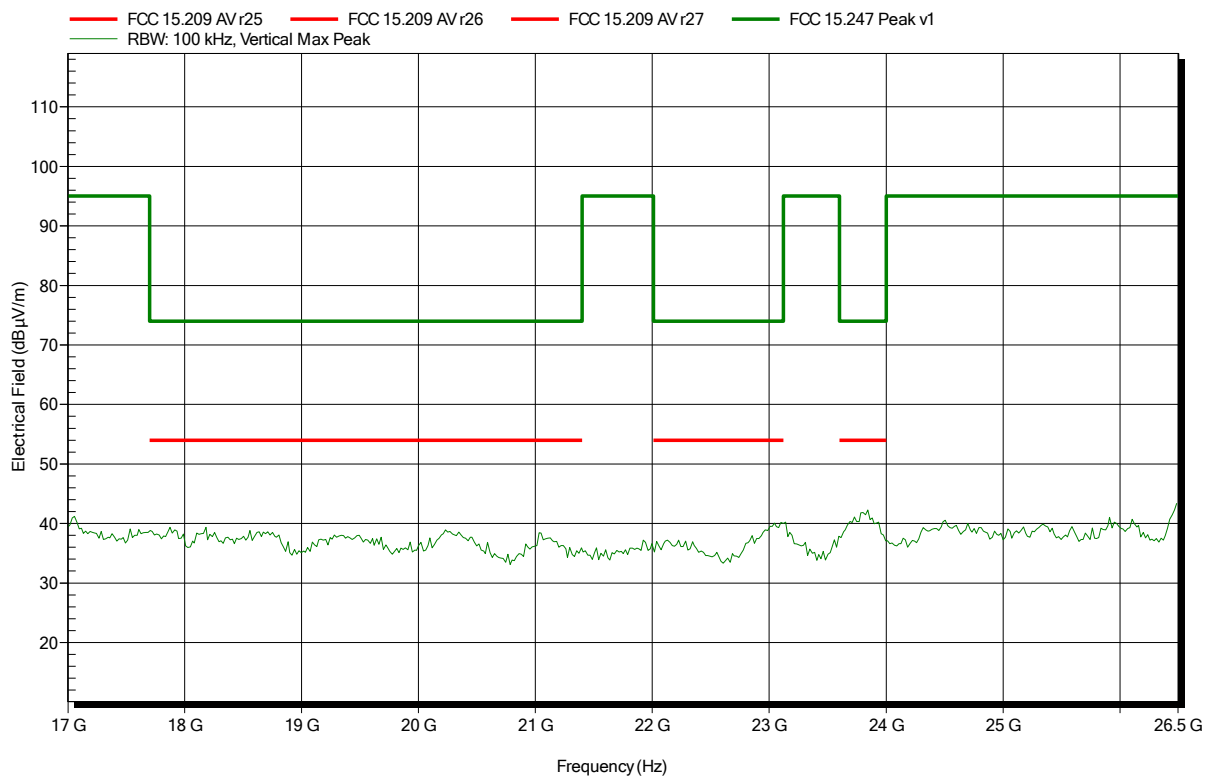


## Spurious emissions according to FCC 15.247

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM 400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
Antenna: ATH18G40, Vertical  
Measurement distance: 1 m converted to 3m  
Mode: TX; BT LE 2480 MHz  
Test Date: 2017-12-12  
Note:

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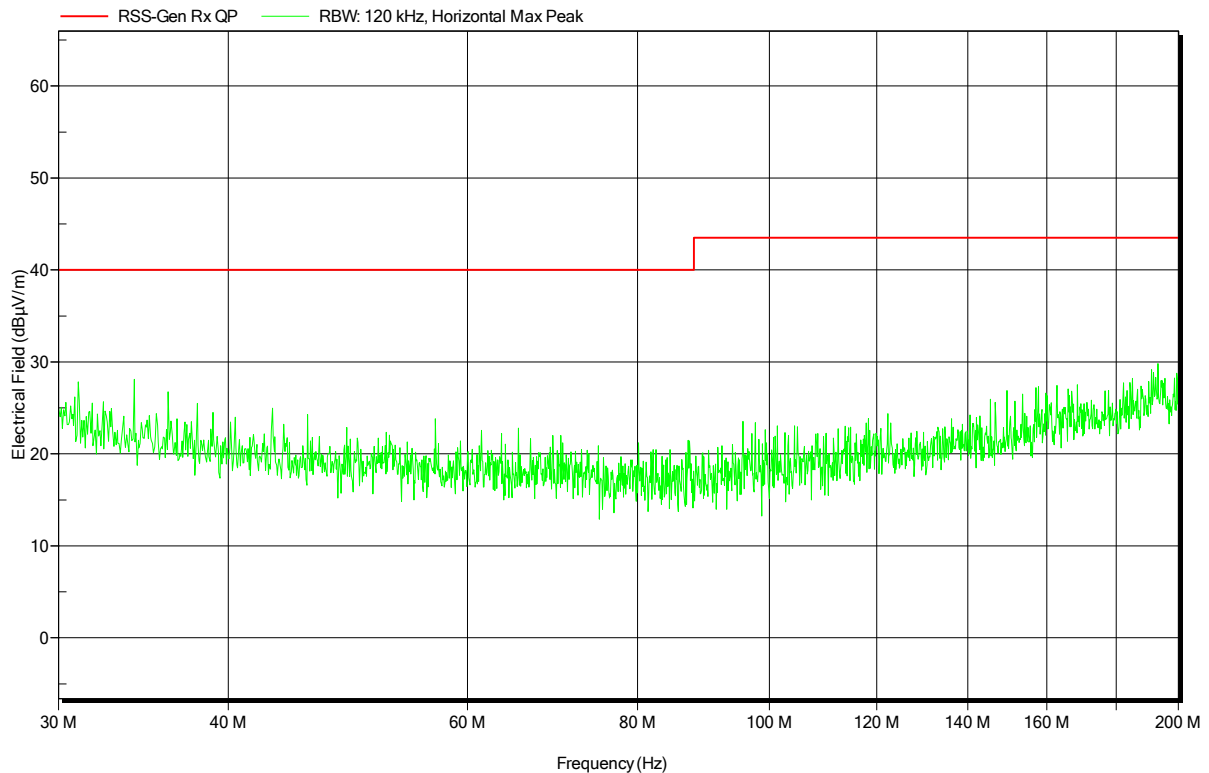
## ANNEX B Receiver spurious emissions

### Spurious emissions according to RSS-Gen Issue 4

Project number: G0M-1705-6514

|                       |                                    |
|-----------------------|------------------------------------|
| Applicant:            | Robert Bosch Tool Corporation      |
| EUT Name:             | Laser Rangefinder                  |
| Model:                | GLM400CL                           |
| Test Site:            | Eurofins Product Service GmbH      |
| Operator:             | Mr. Suckow                         |
| Test Conditions:      | Tnom: 21°C, Vnom: 3.6 VDC          |
| Antenna:              | Rohde & Schwarz HK 116, Horizontal |
| Measurement distance: | 3 m                                |
| Mode:                 | RX; BT LE 2440 MHz                 |
| Test Date:            | 2017-12-13                         |
| Note:                 |                                    |

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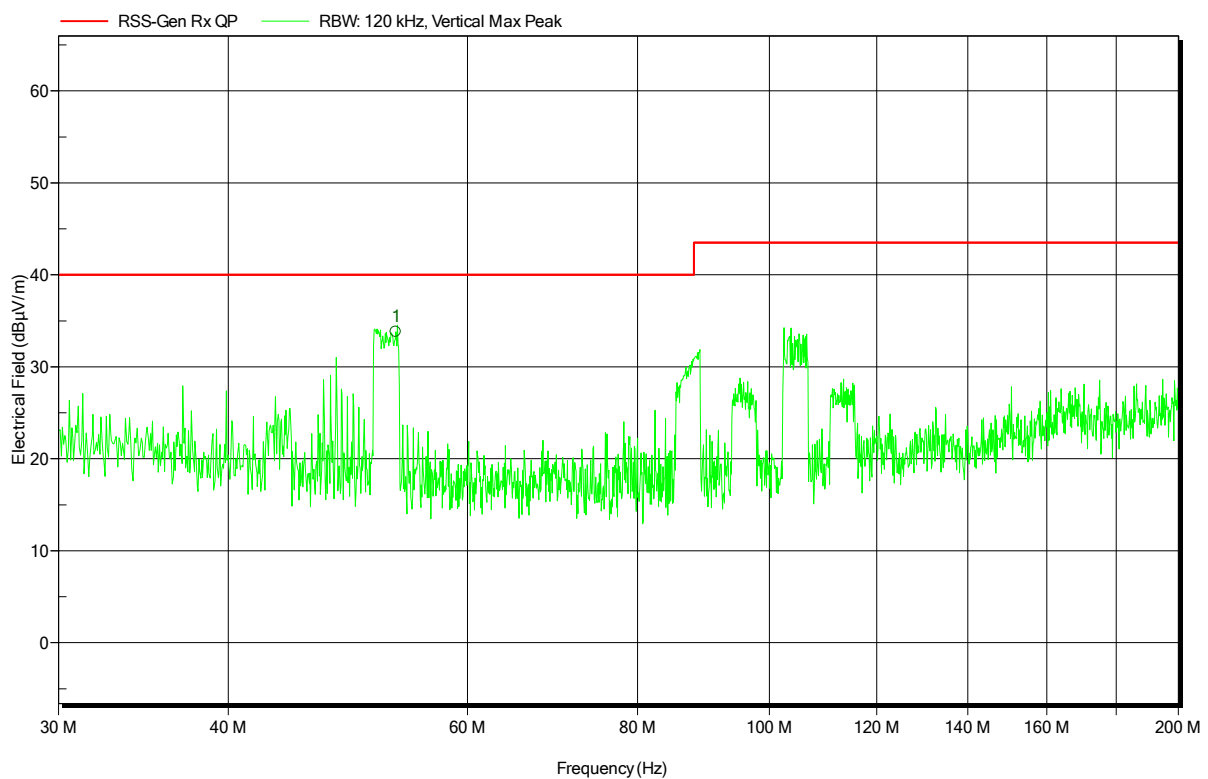


## Spurious emissions according to RSS-Gen Issue 4

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
EUT Name: Laser Rangefinder  
Model: GLM400CL  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Suckow  
Test Conditions: Tnom: 21°C, Vnom: 3.6 VDC  
Antenna: Rohde & Schwarz HK 116, Vertical  
Measurement distance: 3 m  
Mode: RX; BT LE 2440 MHz  
Test Date: 2017-12-13  
Note:

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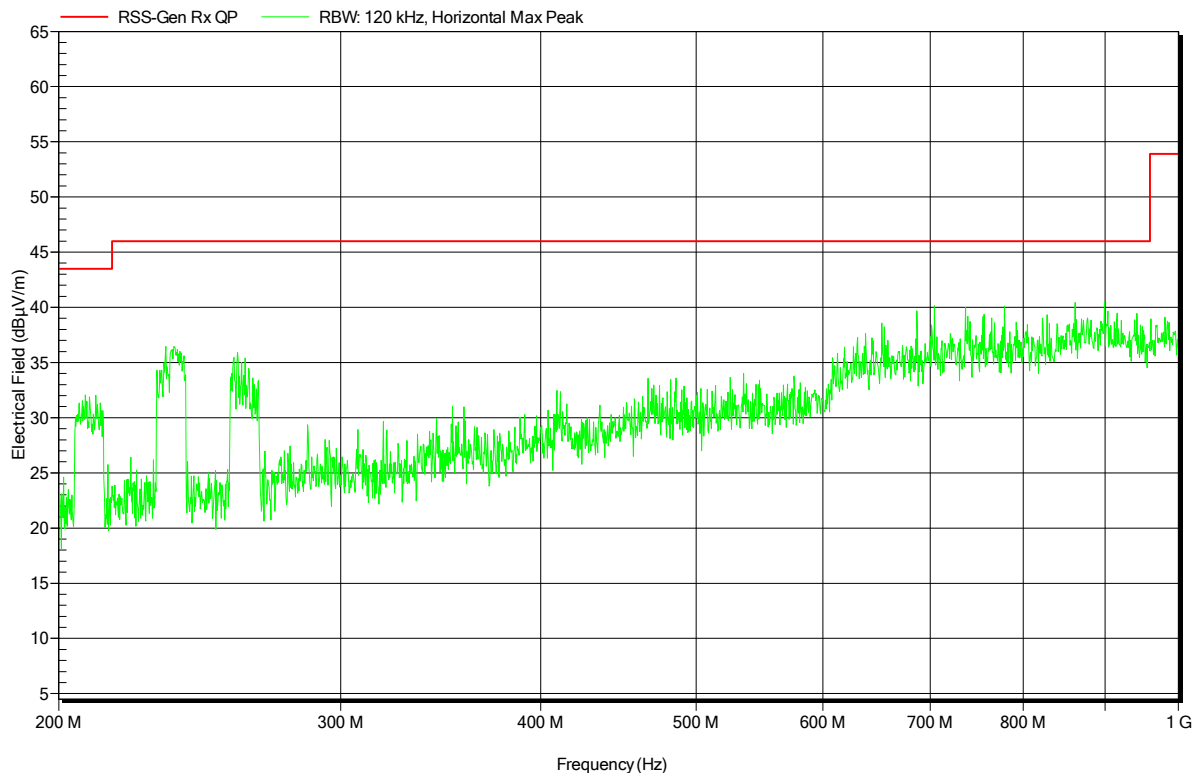
| Frequency  | Peak        | Peak Limit | Peak Difference | Status |
|------------|-------------|------------|-----------------|--------|
| 53.119 MHz | 33.8 dBµV/m | 40 dBµV/m  | -6.21 dB        | Pass   |

## Spurious emissions according to RSS-Gen Issue 4

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
 EUT Name: Laser Rangefinder  
 Model: GLM400CL  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Suckow  
 Test Conditions: Tnom: 21°C, Vnom: 3.6 VDC  
 Antenna: Rohde & Schwarz HL 223, Horizontal  
 Measurement distance: 3 m  
 Mode: RX; BT LE 2440 MHz  
 Test Date: 2017-12-13  
 Note:

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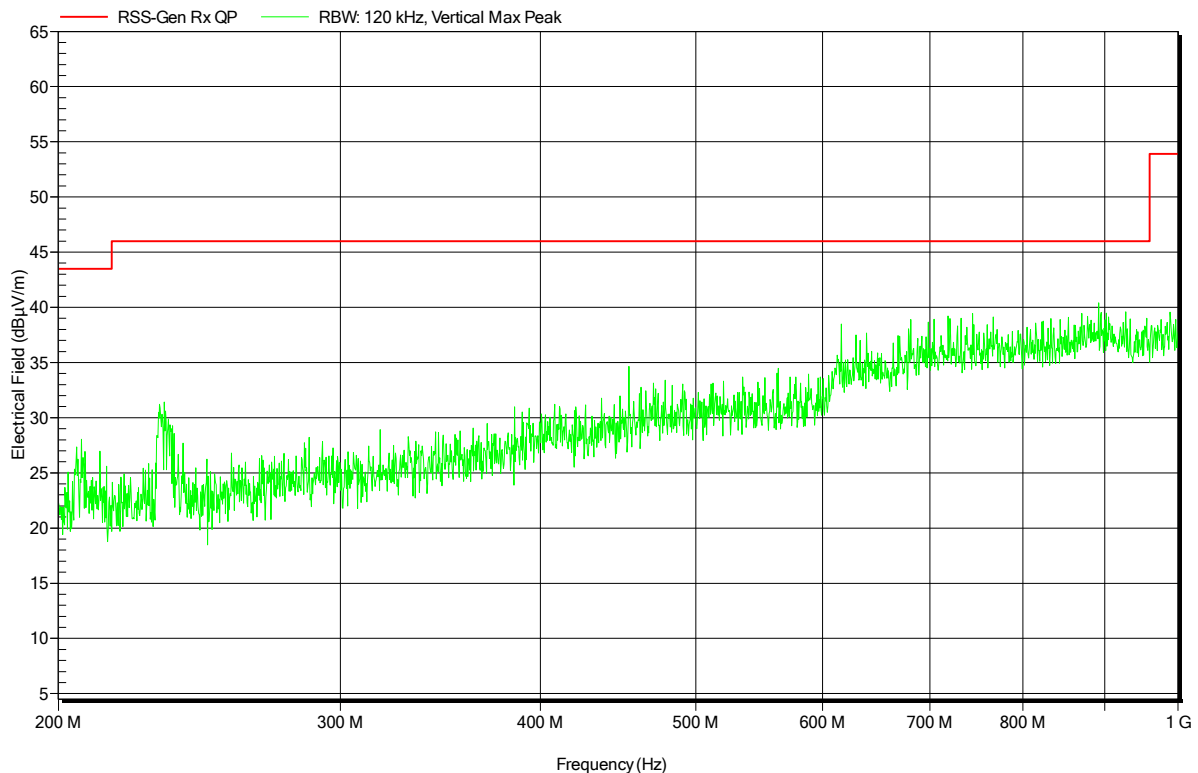


## Spurious emissions according to RSS-Gen Issue 4

Project number: G0M-1705-6514

|                       |                                  |
|-----------------------|----------------------------------|
| Applicant:            | Robert Bosch Tool Corporation    |
| EUT Name:             | Laser Rangefinder                |
| Model:                | GLM400CL                         |
| Test Site:            | Eurofins Product Service GmbH    |
| Operator:             | Mr. Suckow                       |
| Test Conditions:      | Tnom: 21°C, Vnom: 3.6 VDC        |
| Antenna:              | Rohde & Schwarz HL 223, Vertical |
| Measurement distance: | 3 m                              |
| Mode:                 | RX; BT LE 2440 MHz               |
| Test Date:            | 2017-12-13                       |
| Note:                 |                                  |

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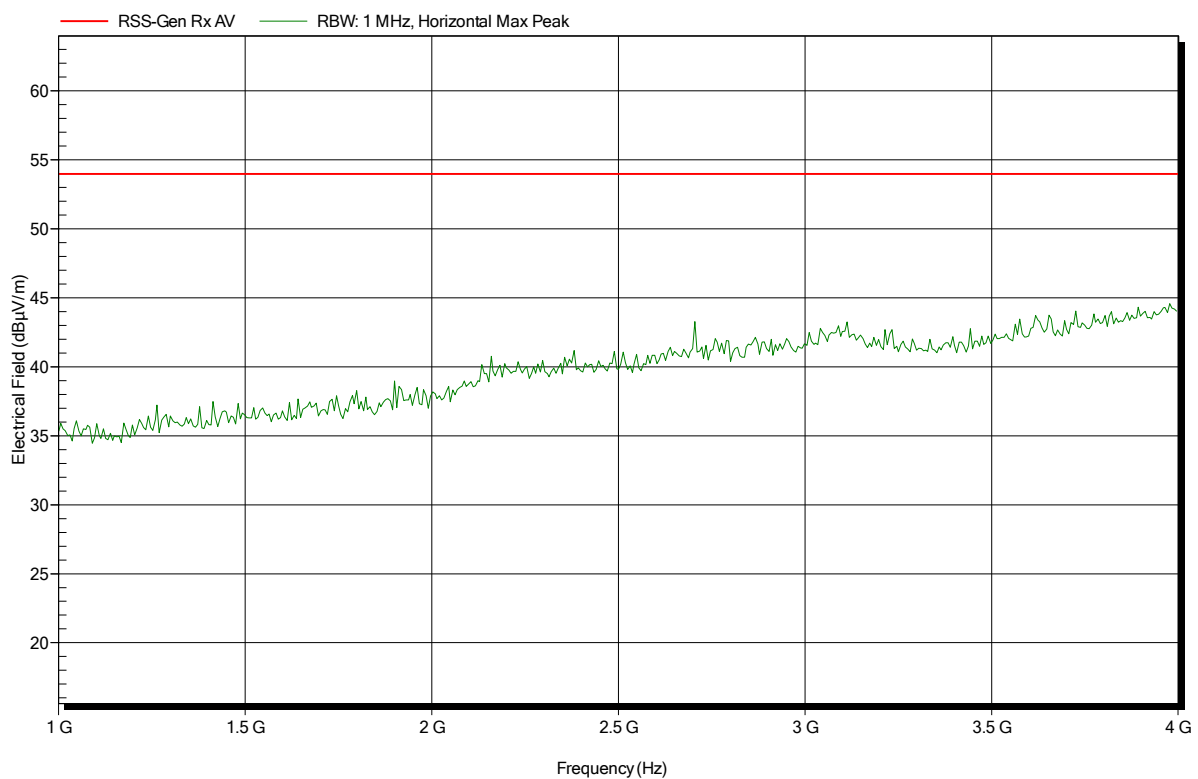


## Spurious emissions according to RSS-Gen Issue 4

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
 EUT Name: Laser Rangefinder  
 Model: GLM 400CL  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Suckow  
 Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: RX; BT LE 2440 MHz  
 Test Date: 2017-12-13  
 Note:

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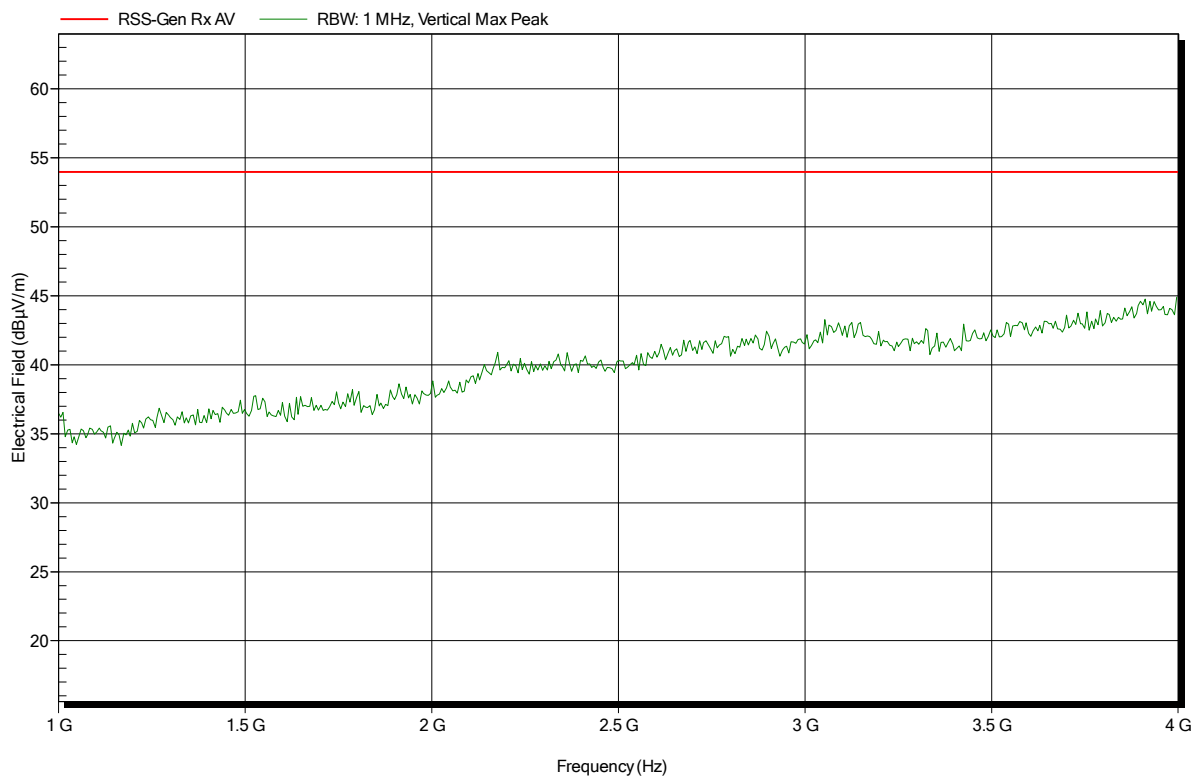


## Spurious emissions according to RSS-Gen Issue 4

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
 EUT Name: Laser Rangefinder  
 Model: GLM 400CL  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Suckow  
 Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: RX; BT LE 2440 MHz  
 Test Date: 2017-12-13  
 Note:

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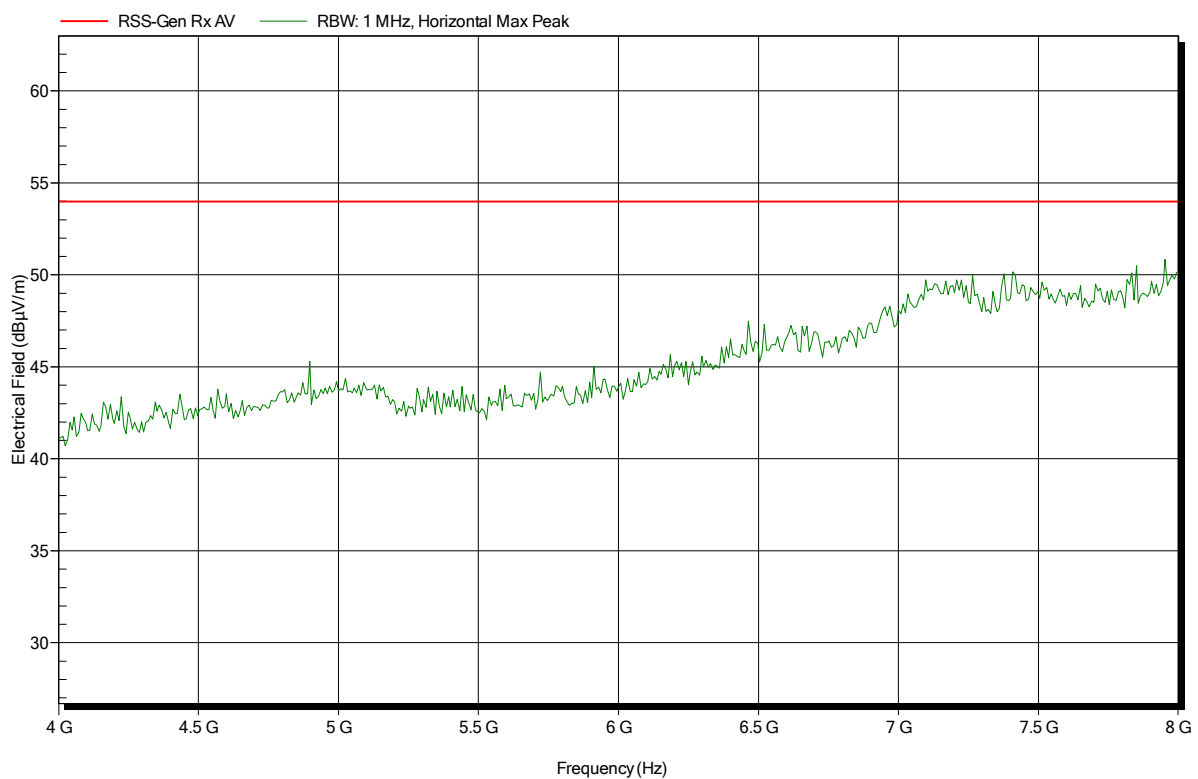


## Spurious emissions according to RSS-Gen Issue 4

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
 EUT Name: Laser Rangefinder  
 Model: GLM 400CL  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Suckow  
 Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: RX; BT LE 2440 MHz  
 Test Date: 2017-12-13  
 Note:

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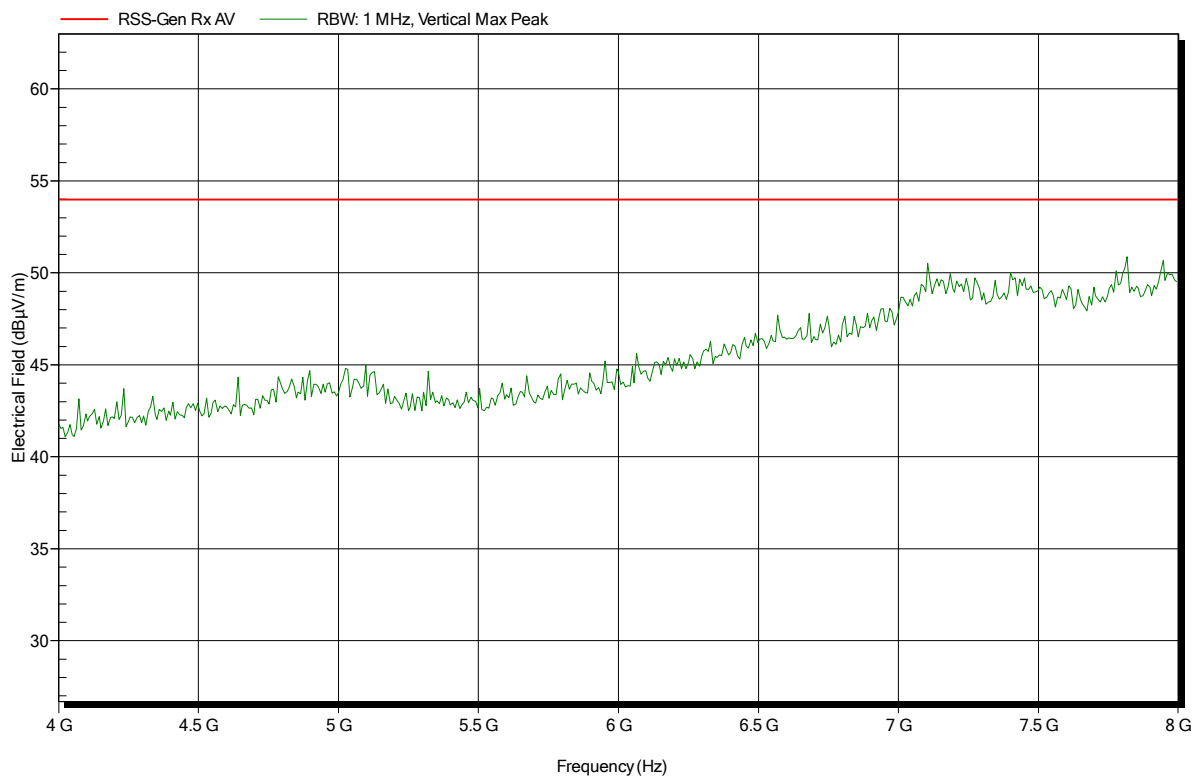


## Spurious emissions according to RSS-Gen Issue 4

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
 EUT Name: Laser Rangefinder  
 Model: GLM 400CL  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Suckow  
 Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: RX; BT LE 2440 MHz  
 Test Date: 2017-12-13  
 Note:

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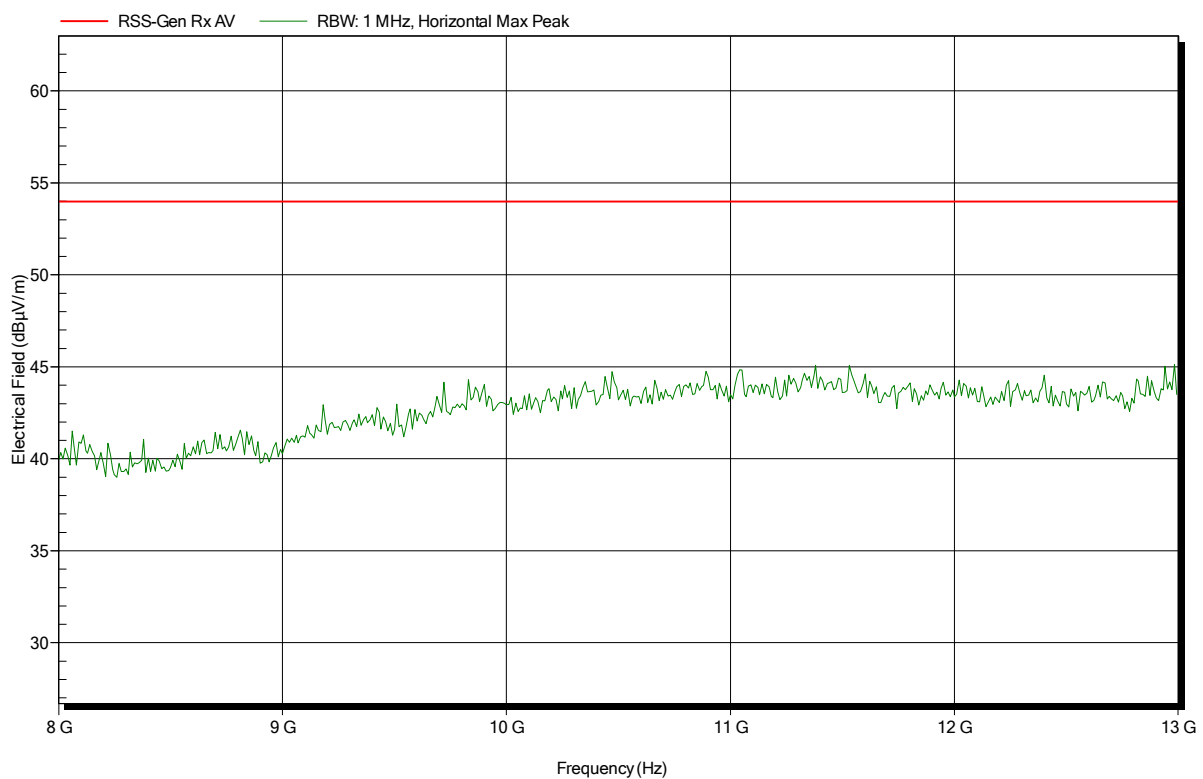


## Spurious emissions according to RSS-Gen Issue 4

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
 EUT Name: Laser Rangefinder  
 Model: GLM 400CL  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Suckow  
 Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: RX; BT LE 2440 MHz  
 Test Date: 2017-12-13  
 Note:

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## Spurious emissions according to RSS-Gen Issue 4

Project number: G0M-1705-6514

Applicant: Robert Bosch Tool Corporation  
 EUT Name: Laser Rangefinder  
 Model: GLM 400CL  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Suckow  
 Test Conditions: Tnom: 22°C, Vnom: 3.6 VDC  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: RX; BT LE 2440 MHz  
 Test Date: 2017-12-13  
 Note:

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