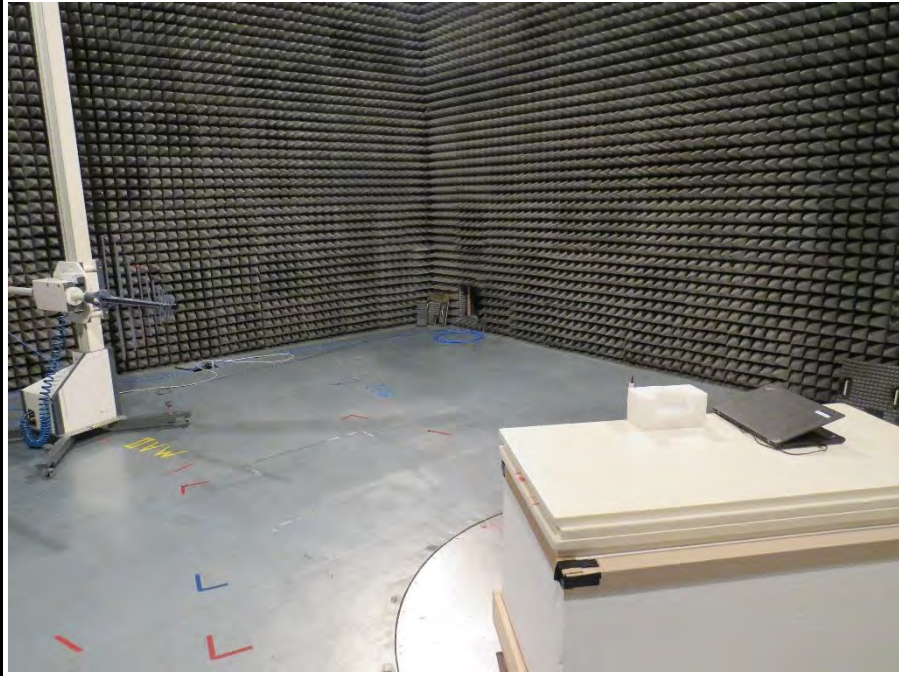
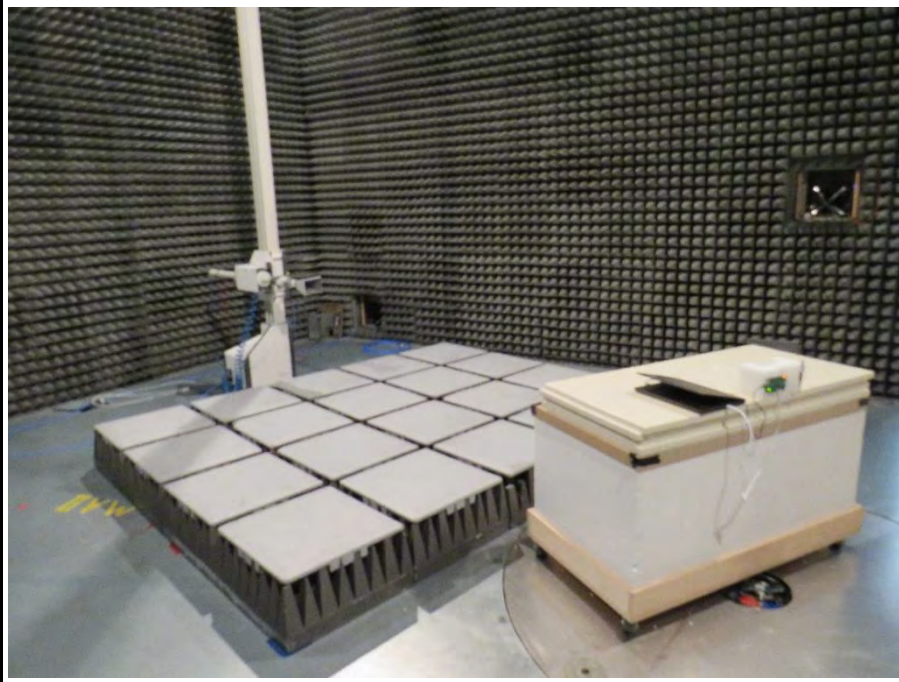


### 3.9.7 Setup Photos

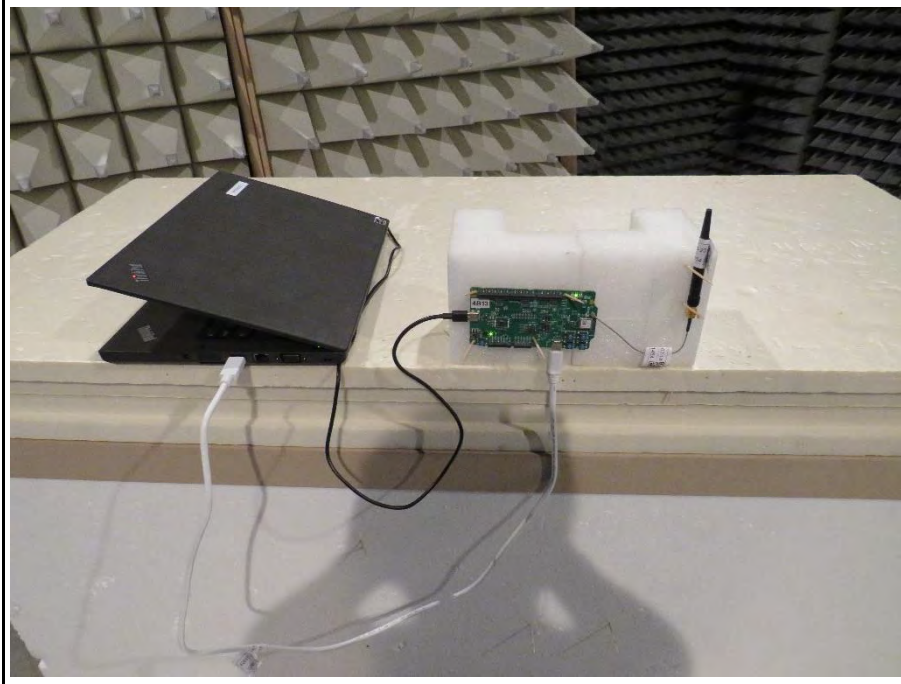
**Setup for measurements below 1 GHz (NORA-W101)**



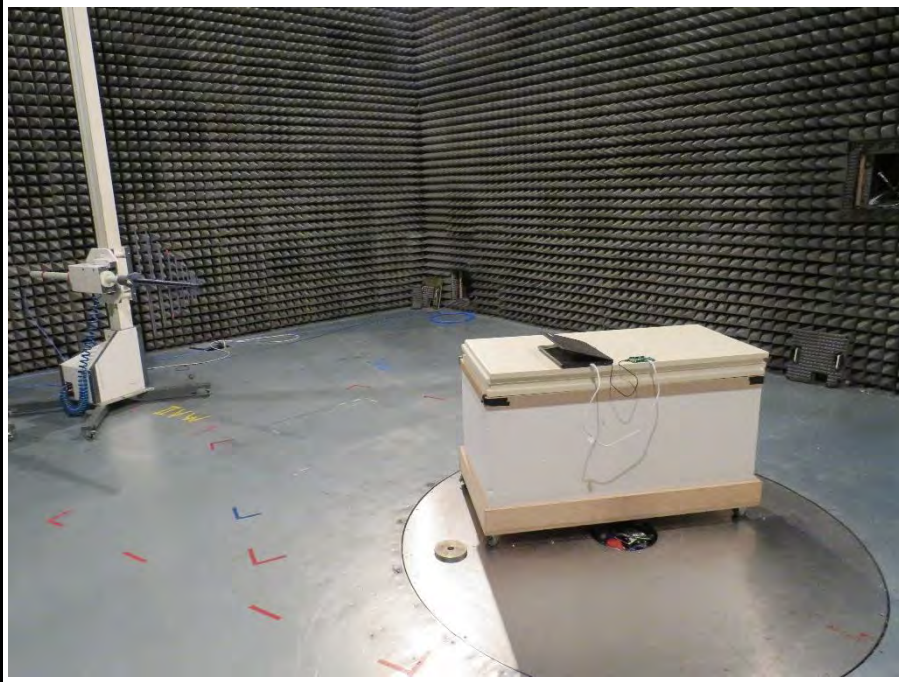
**Setup for measurements above 1 GHz (NORA-W101)**



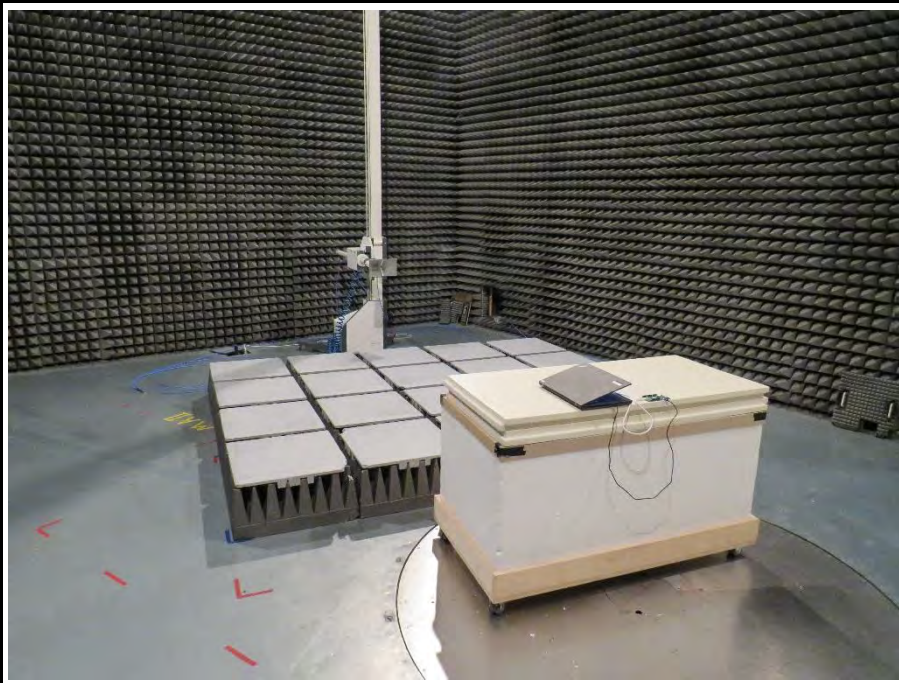
**EUT Test Setup (NORA-W101)**



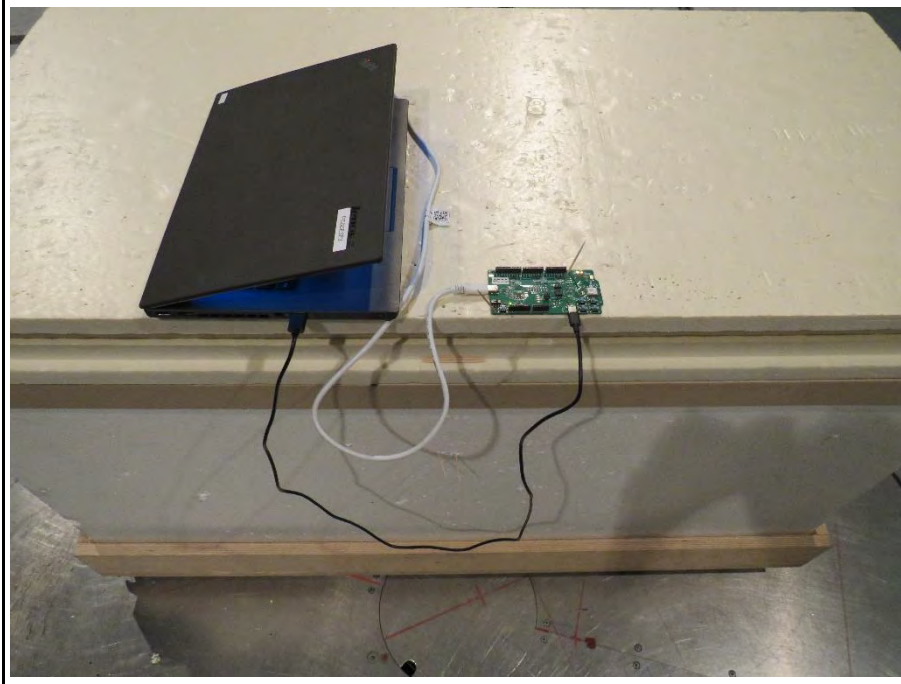
**Setup for measurements below 1 GHz for Variant 1 (NORA-W106 with PCB antenna)**



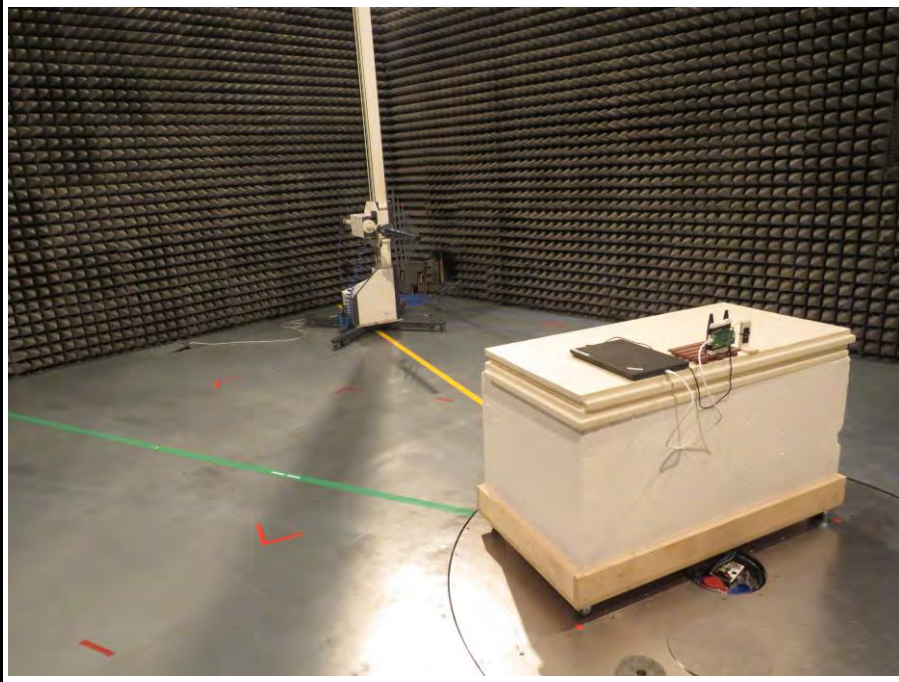
**Setup for measurements above 1 GHz for Variant 1 (NORA-W106 with PCB antenna)**



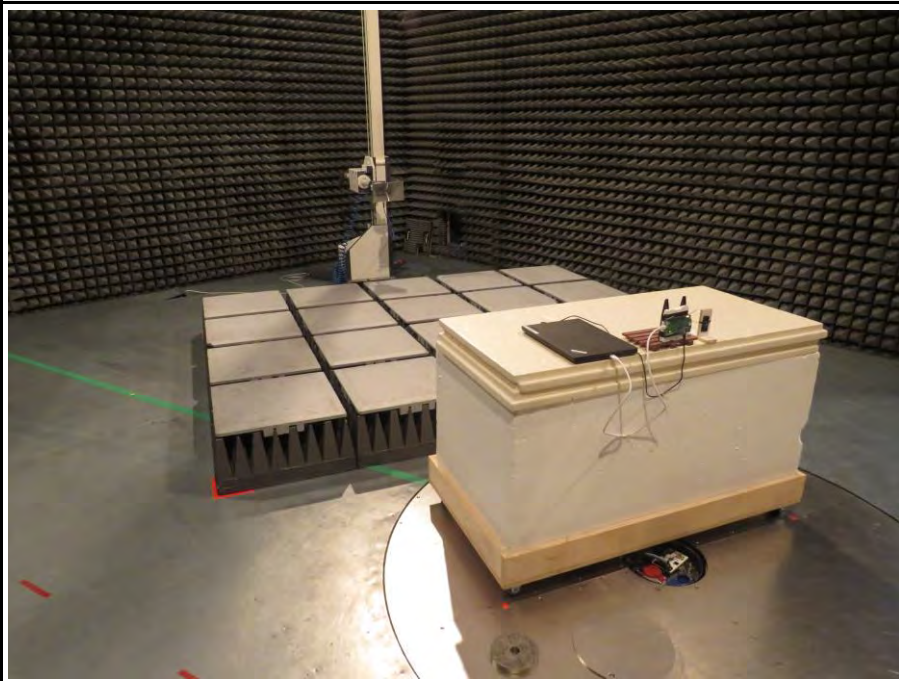
**EUT Test Setup for Variant 1 (NORA-W106 with PCB antenna)**



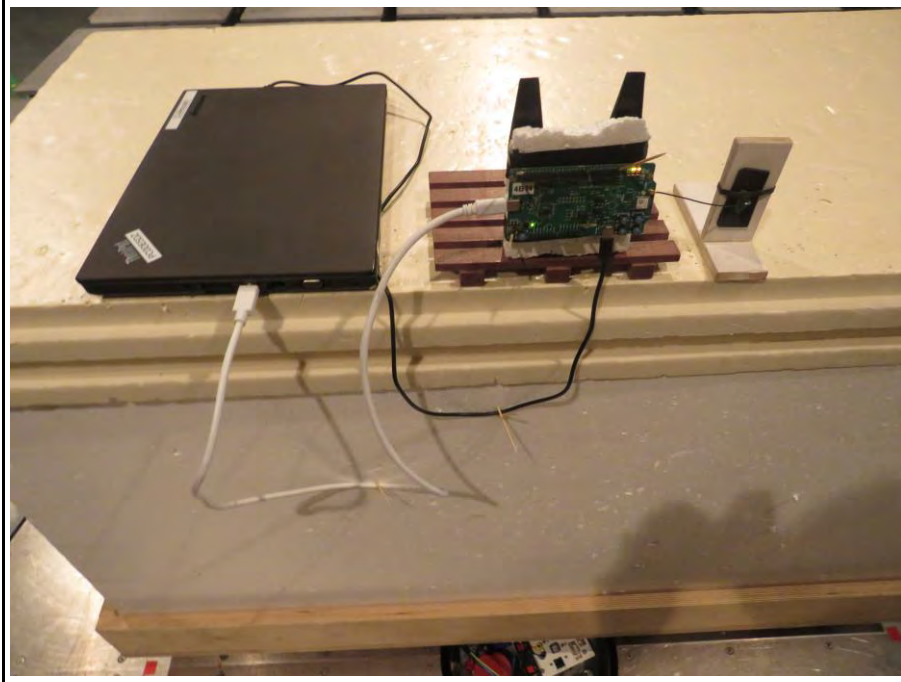
**Setup for measurements below 1 GHz for Variant 2 (NORA-W101 with external antenna PN PRO-IS-237)**



**Setup for measurements above 1 GHz for Variant 2 (NORA-W101 with external antenna PN PRO-IS-237)**



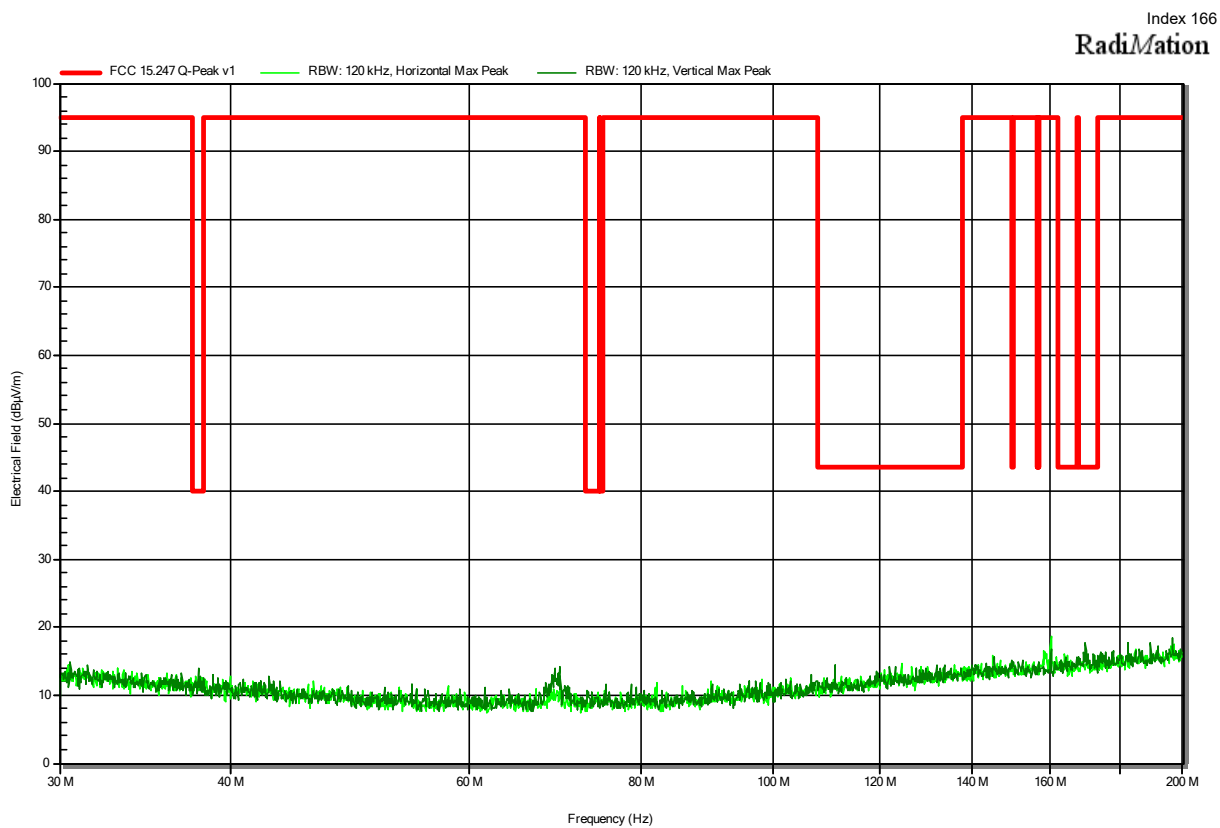
**EUT Test Setup for Variant 2 (NORA-W101 with external antenna PN PRO-IS-237)**



## ANNEX A Transmitter spurious emissions

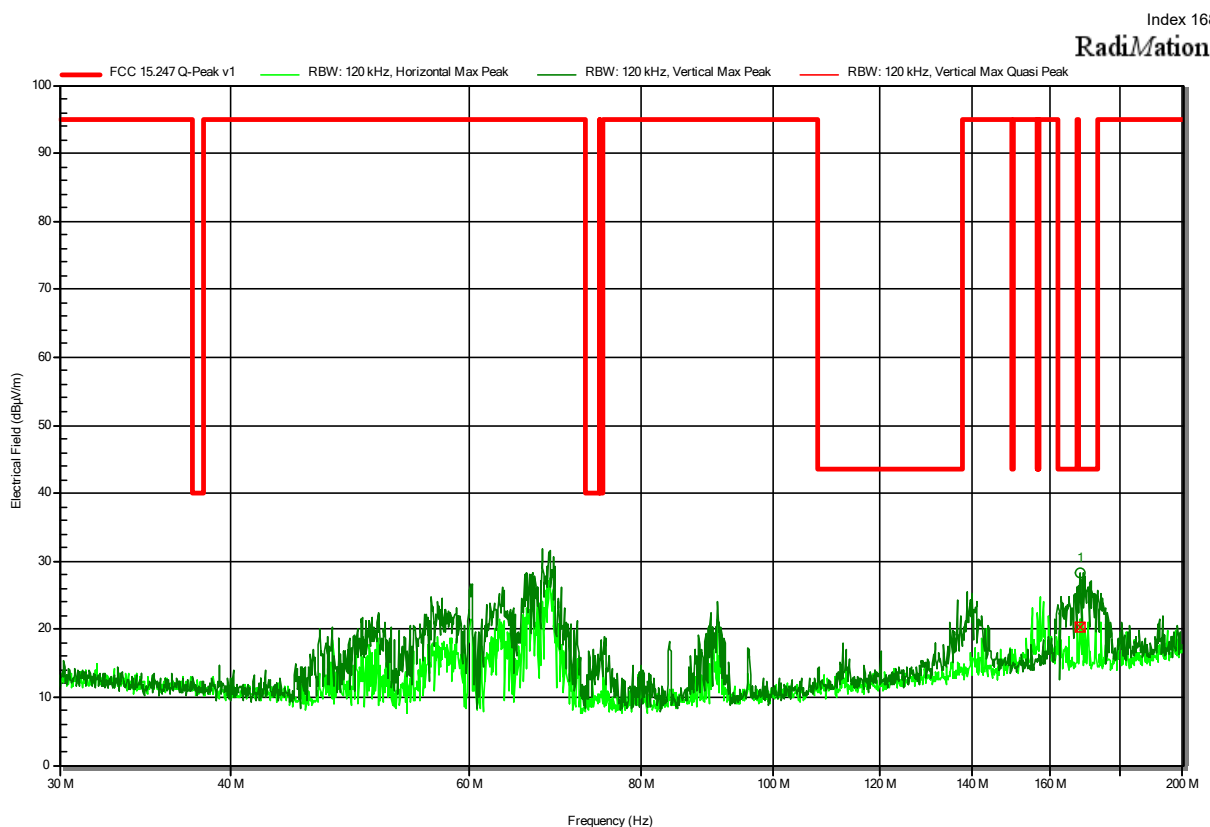
### Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-09-02  
 Note:



## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

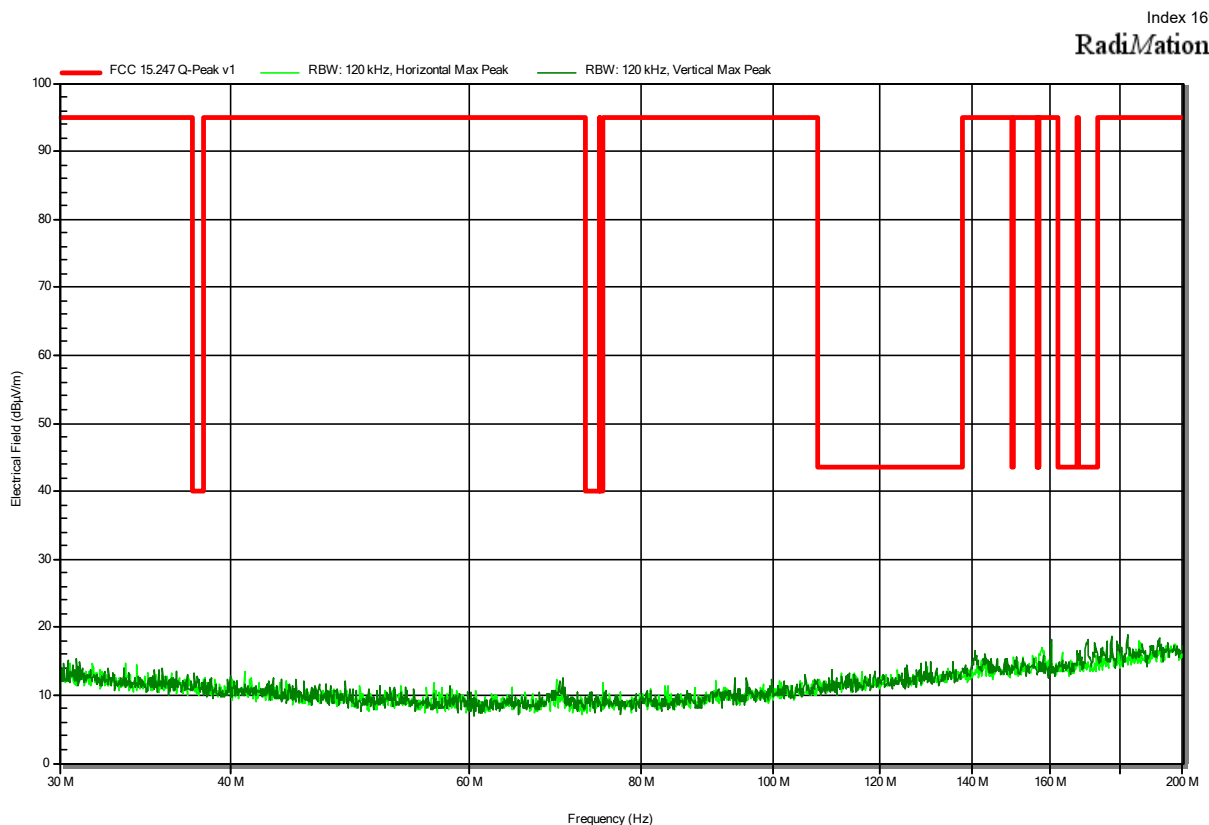
Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 6\_2437 MHz; OFDM; BW20  
 Test Date: 2022-09-02  
 Note:



| Frequency    | Quasi-Peak  | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Polarization |
|--------------|-------------|------------------|-----------------------|-------------------|--------------|
| 168.0528 MHz | 20.2 dBµV/m | 43.5 dBµV/m      | -23.3 dB              | Pass              | Vertical     |

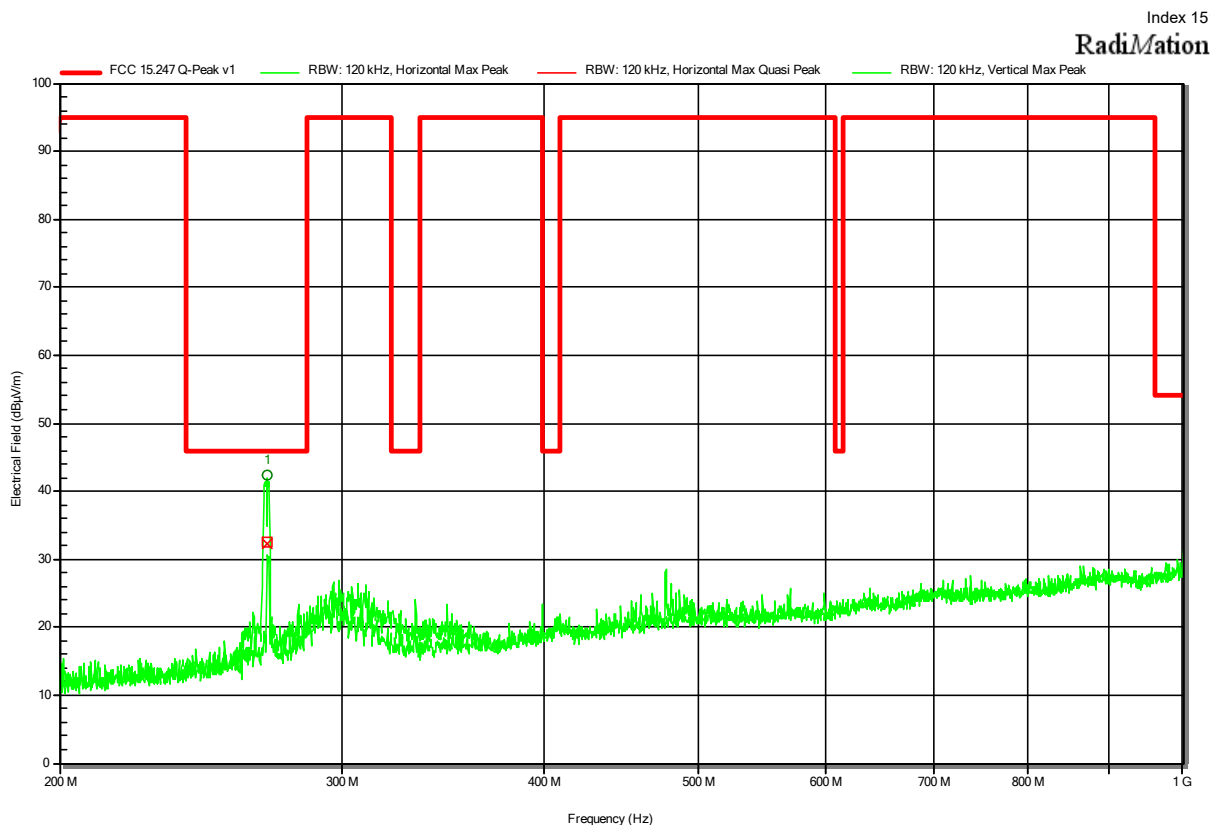
## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-09-02  
 Note:



## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

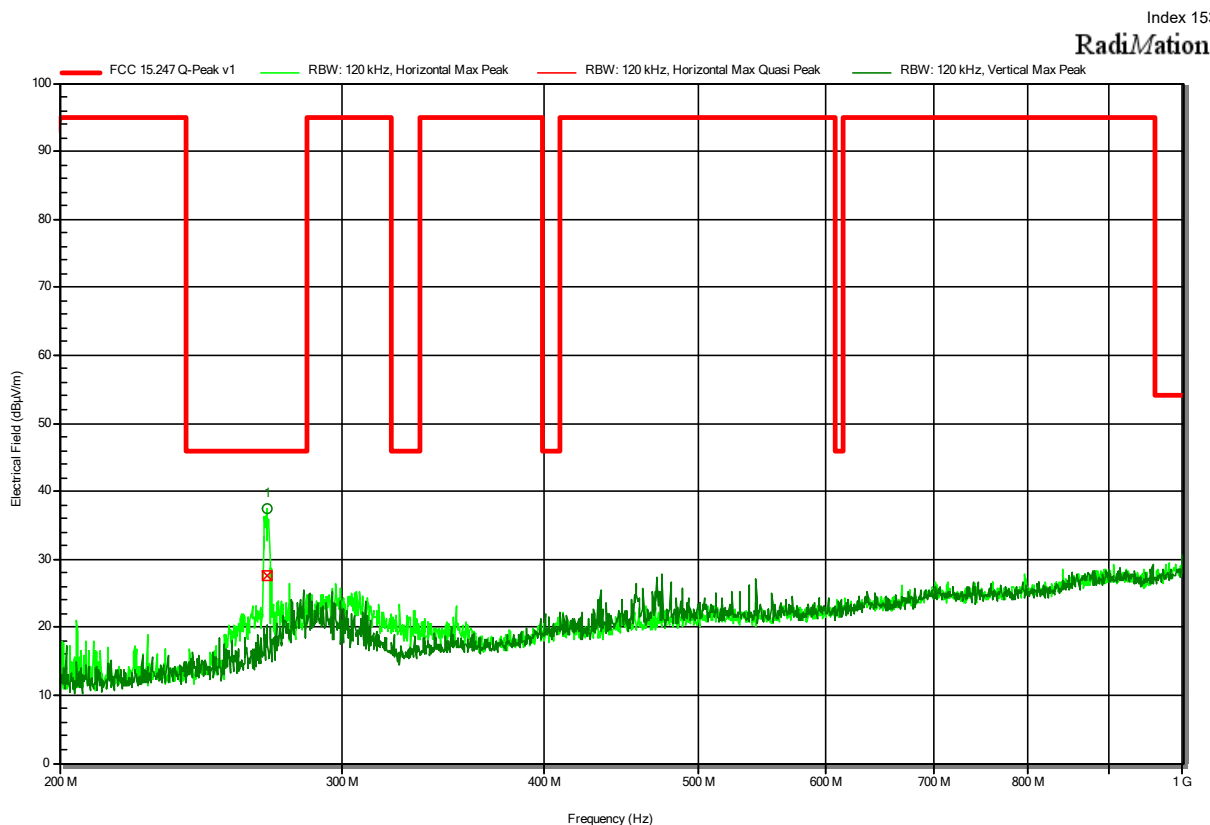
Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-08-29  
 Note:



| Frequency    | Quasi-Peak  | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Polarization |
|--------------|-------------|------------------|-----------------------|-------------------|--------------|
| 269.1596 MHz | 32.5 dBµV/m | 46 dBµV/m        | -13.53 dB             | Pass              | Horizontal   |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

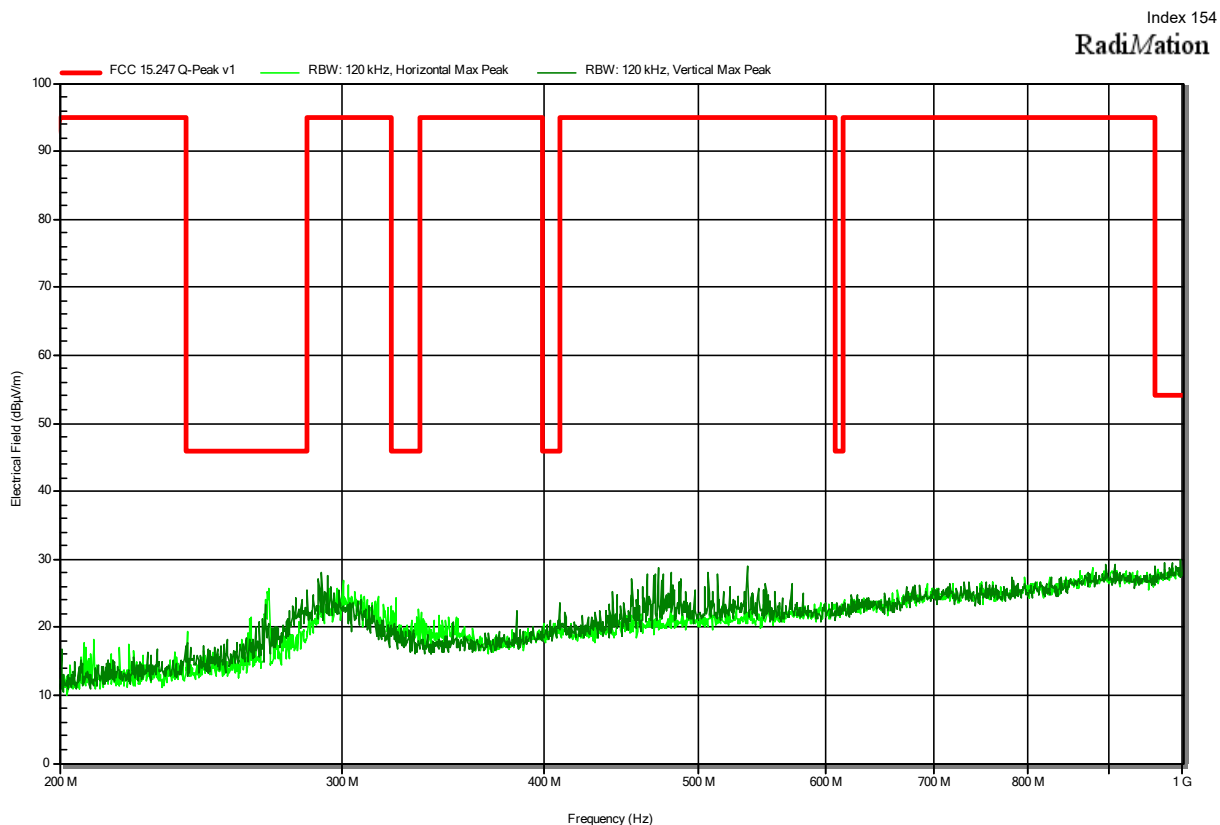
Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 6\_2437 MHz; OFDM; BW20  
 Test Date: 2022-08-29  
 Note:



| Frequency    | Quasi-Peak  | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Polarization |
|--------------|-------------|------------------|-----------------------|-------------------|--------------|
| 269.0225 MHz | 27.7 dBµV/m | 46 dBµV/m        | -18.3 dB              | Pass              | Horizontal   |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-08-29  
 Note:

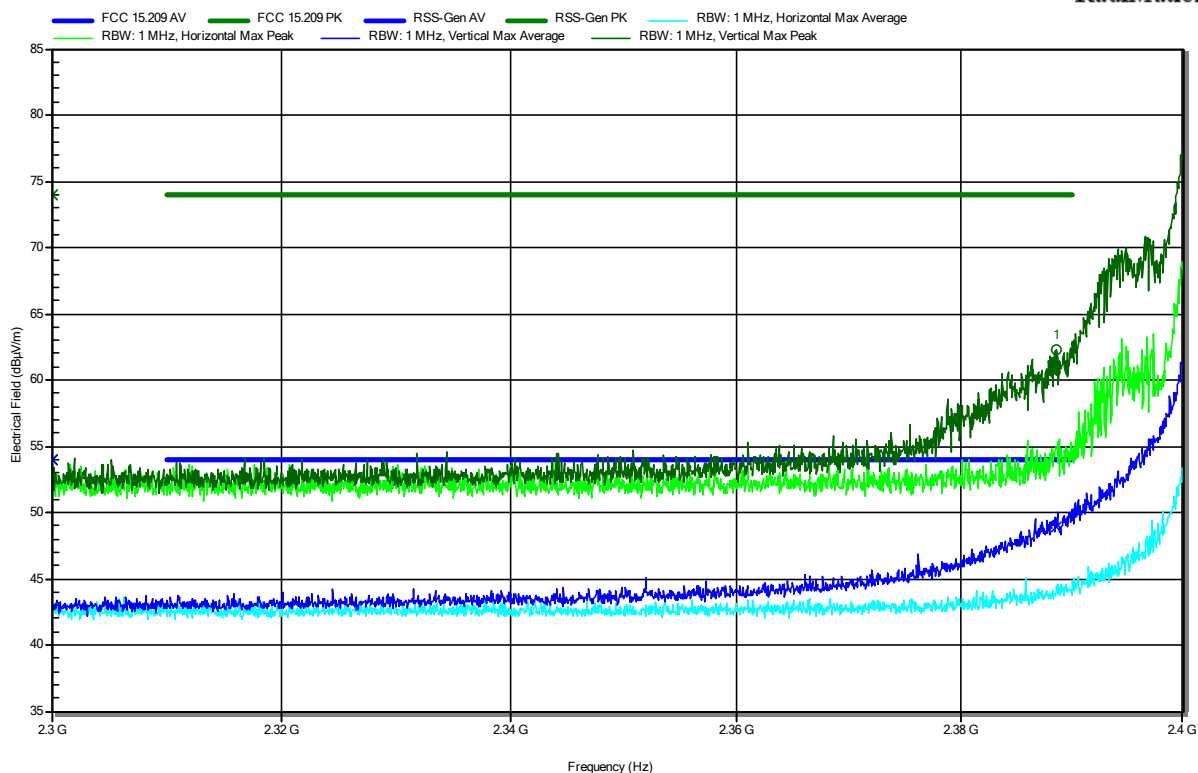


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-09-02  
 Note: lower bandedge

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RadiMation



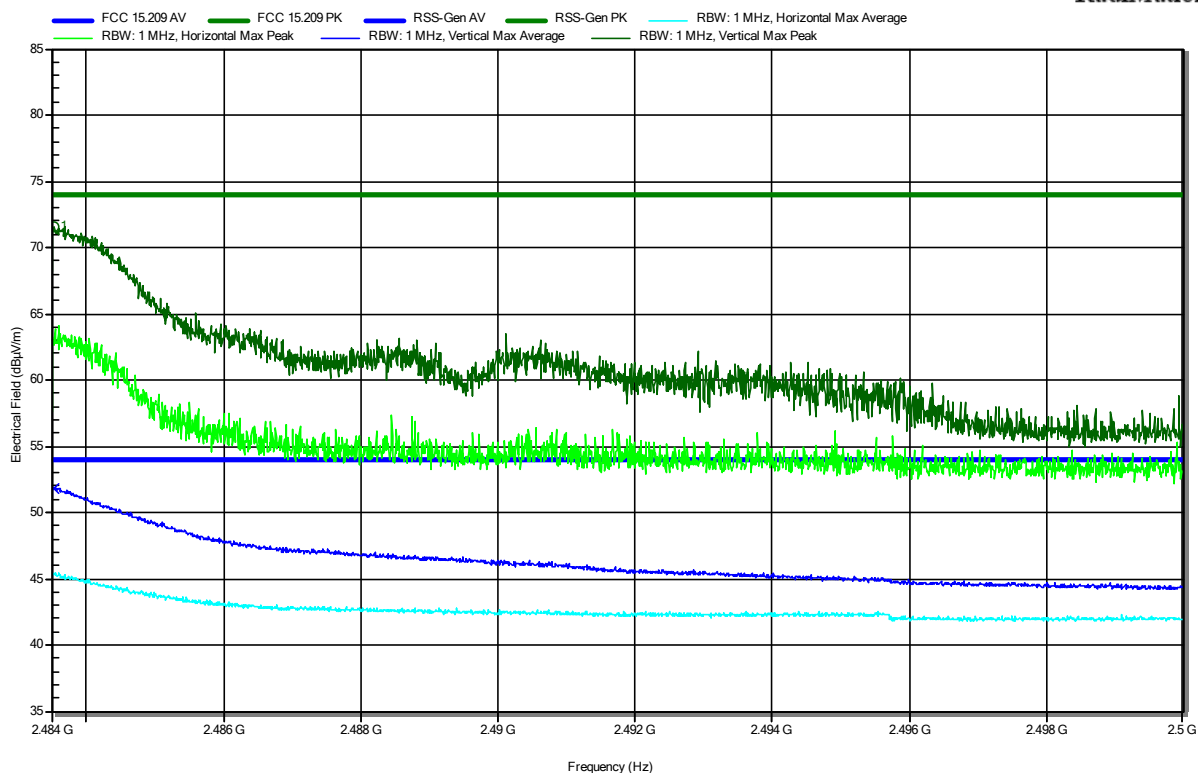
|                         |                         |                            |                                |                        |                          |
|-------------------------|-------------------------|----------------------------|--------------------------------|------------------------|--------------------------|
| Frequency<br>2.3886 GHz | Peak<br>62.23 dBμV/m    | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-11.77 dB   | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>2.3886 GHz | Average<br>48.96 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-5.04 dB | Average Status<br>Pass | Polarization<br>Vertical |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-09-02  
 Note: upper bandedge

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**RadiMation**



|                         |                        |                            |                               |                        |                          |
|-------------------------|------------------------|----------------------------|-------------------------------|------------------------|--------------------------|
| Frequency<br>2.4835 GHz | Peak<br>71.53 dBμV/m   | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-2.47 dB   | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>2.4835 GHz | Average<br>51.8 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-2.2 dB | Average Status<br>Pass | Polarization<br>Vertical |

Test Report No.: G0M-2205-1454-TFC247WF-V02

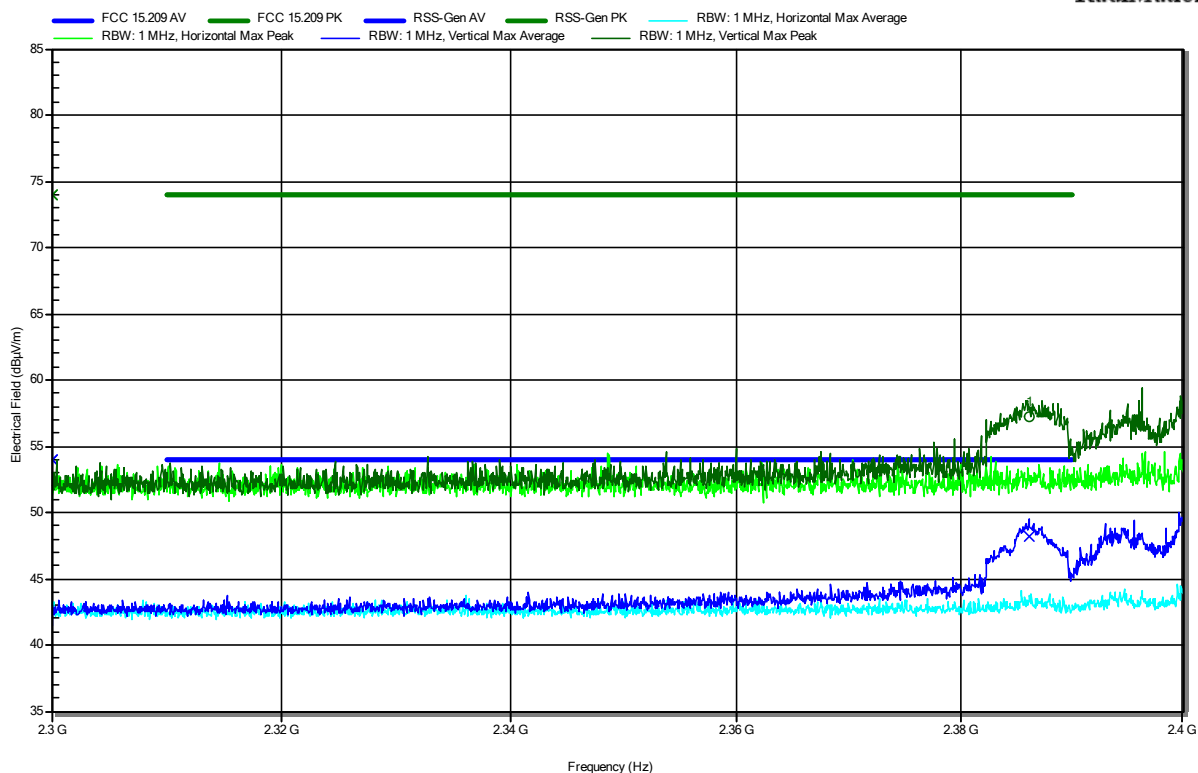
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1Mbps; CH 1\_2412 MHz; DSSS; BW20  
 Test Date: 2022-09-09  
 Note: lower bandedge

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|                         |                         |                            |                                |                        |                          |
|-------------------------|-------------------------|----------------------------|--------------------------------|------------------------|--------------------------|
| Frequency<br>2.3861 GHz | Peak<br>57.28 dBμV/m    | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-16.72 dB   | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>2.3861 GHz | Average<br>48.14 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-5.86 dB | Average Status<br>Pass | Polarization<br>Vertical |

Test Report No.: G0M-2205-1454-TFC247WF-V02

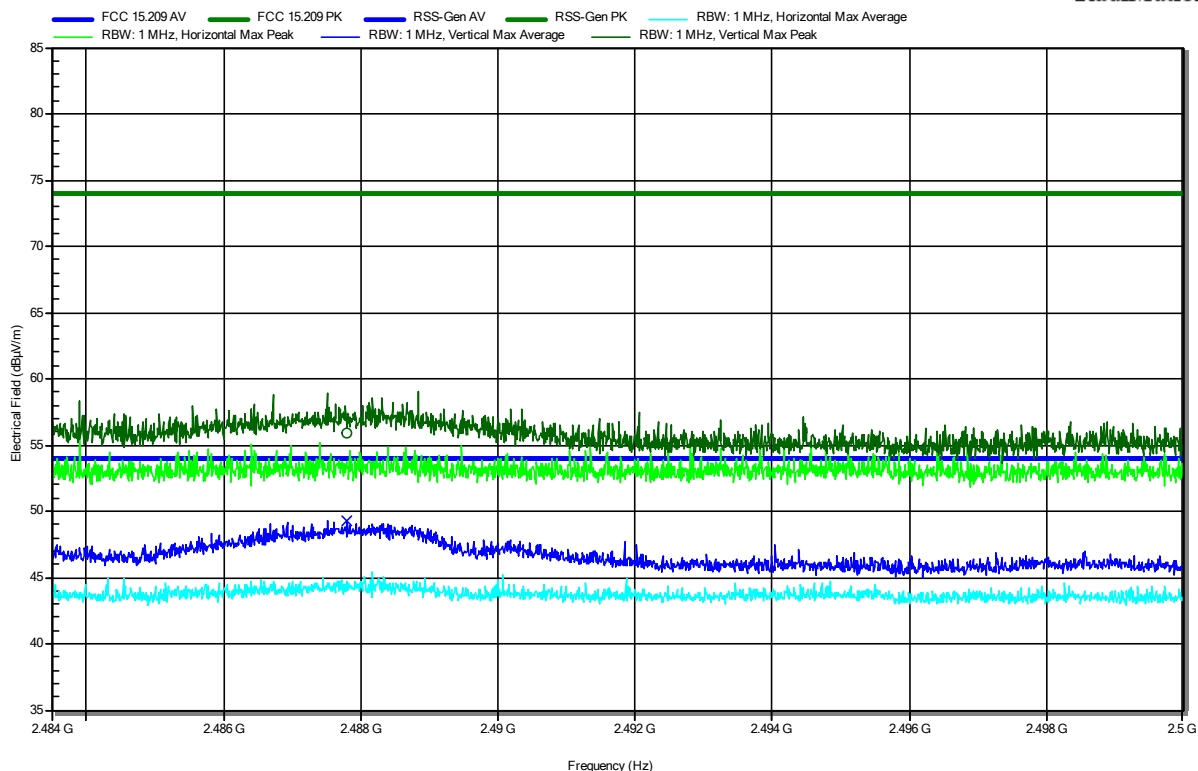
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1Mbps; CH 11\_2462 MHz; DSSS; BW20  
 Test Date: 2022-09-02  
 Note: upper bandedge

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**RadiMation**



|                         |                         |                            |                                |                        |                          |
|-------------------------|-------------------------|----------------------------|--------------------------------|------------------------|--------------------------|
| Frequency<br>2.4878 GHz | Peak<br>55.89 dBμV/m    | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-18.11 dB   | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>2.4878 GHz | Average<br>49.27 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-4.73 dB | Average Status<br>Pass | Polarization<br>Vertical |

Test Report No.: G0M-2205-1454-TFC247WF-V02

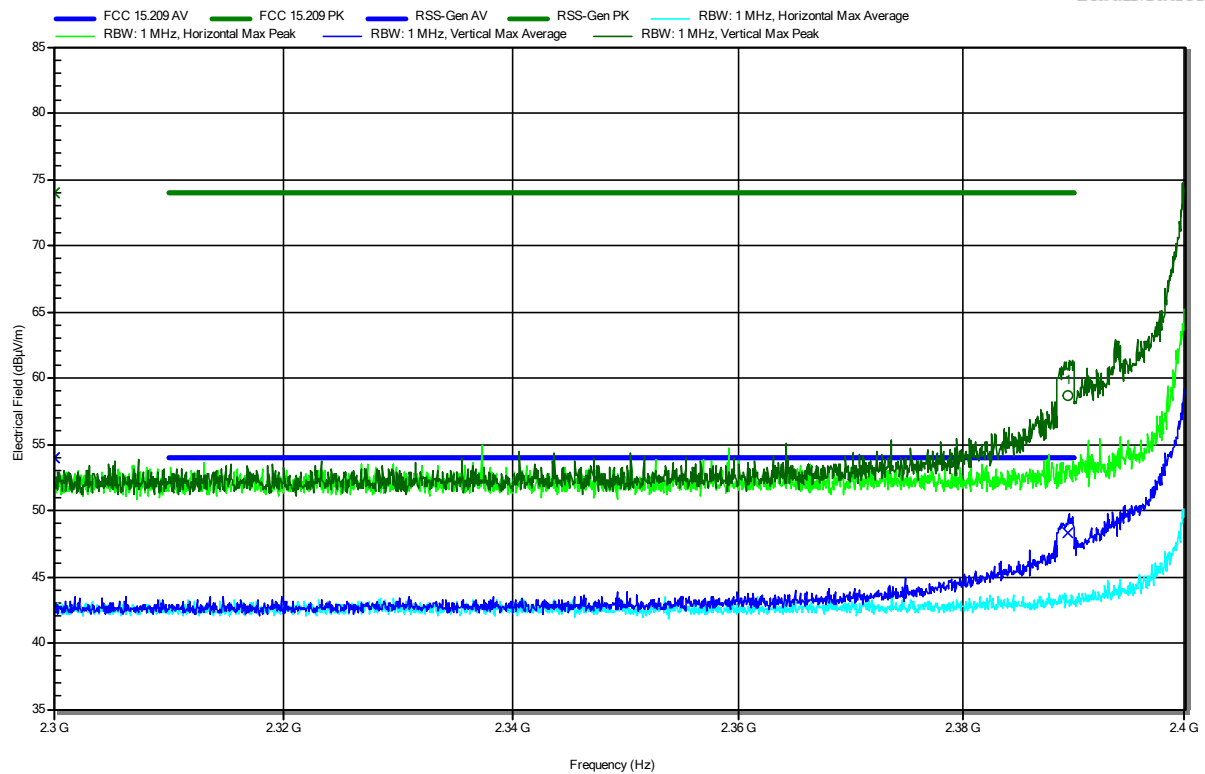
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS1; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-09-09  
 Note: lower bandedge

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|                         |                         |                            |                                |                        |                          |
|-------------------------|-------------------------|----------------------------|--------------------------------|------------------------|--------------------------|
| Frequency<br>2.3895 GHz | Peak<br>58.68 dBμV/m    | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-15.32 dB   | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>2.3895 GHz | Average<br>48.31 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-5.69 dB | Average Status<br>Pass | Polarization<br>Vertical |

Test Report No.: G0M-2205-1454-TFC247WF-V02

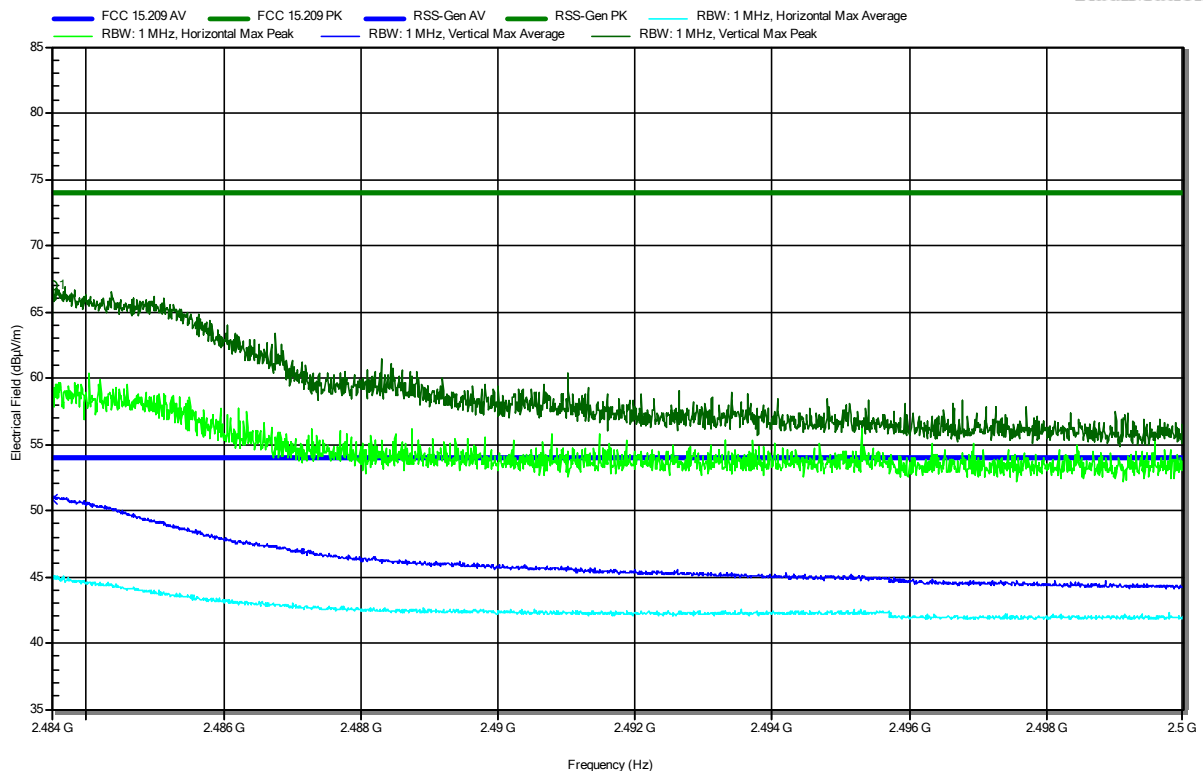
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS1; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-09-02  
 Note: upper bandedge

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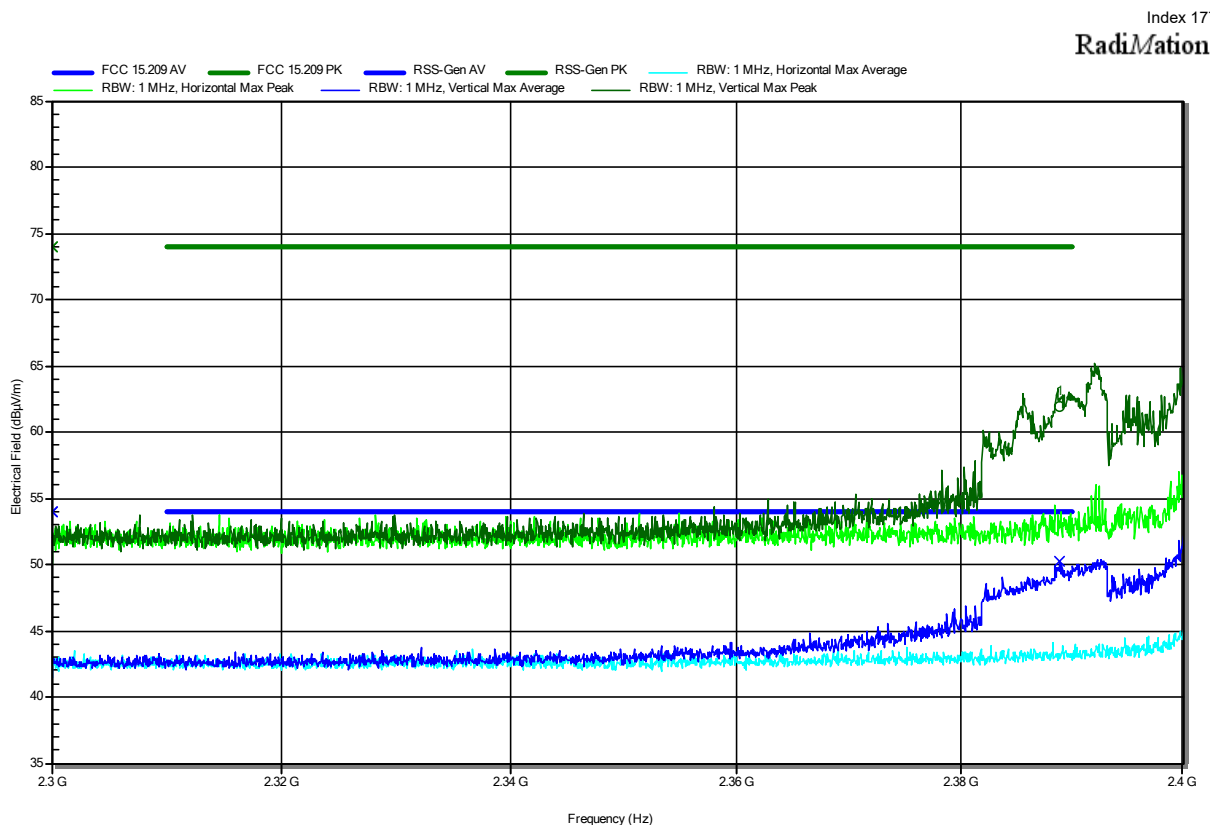
|                         |                         |                            |                                |                        |                          |
|-------------------------|-------------------------|----------------------------|--------------------------------|------------------------|--------------------------|
| Frequency<br>2.4835 GHz | Peak<br>66.93 dBμV/m    | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-7.07 dB    | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>2.4835 GHz | Average<br>50.79 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-3.21 dB | Average Status<br>Pass | Polarization<br>Vertical |

Test Report No.: G0M-2205-1454-TFC247WF-V02

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

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS0; CH 3\_2422 MHz; OFDM; BW40  
 Test Date: 2022-09-09  
 Note: lower bandedge



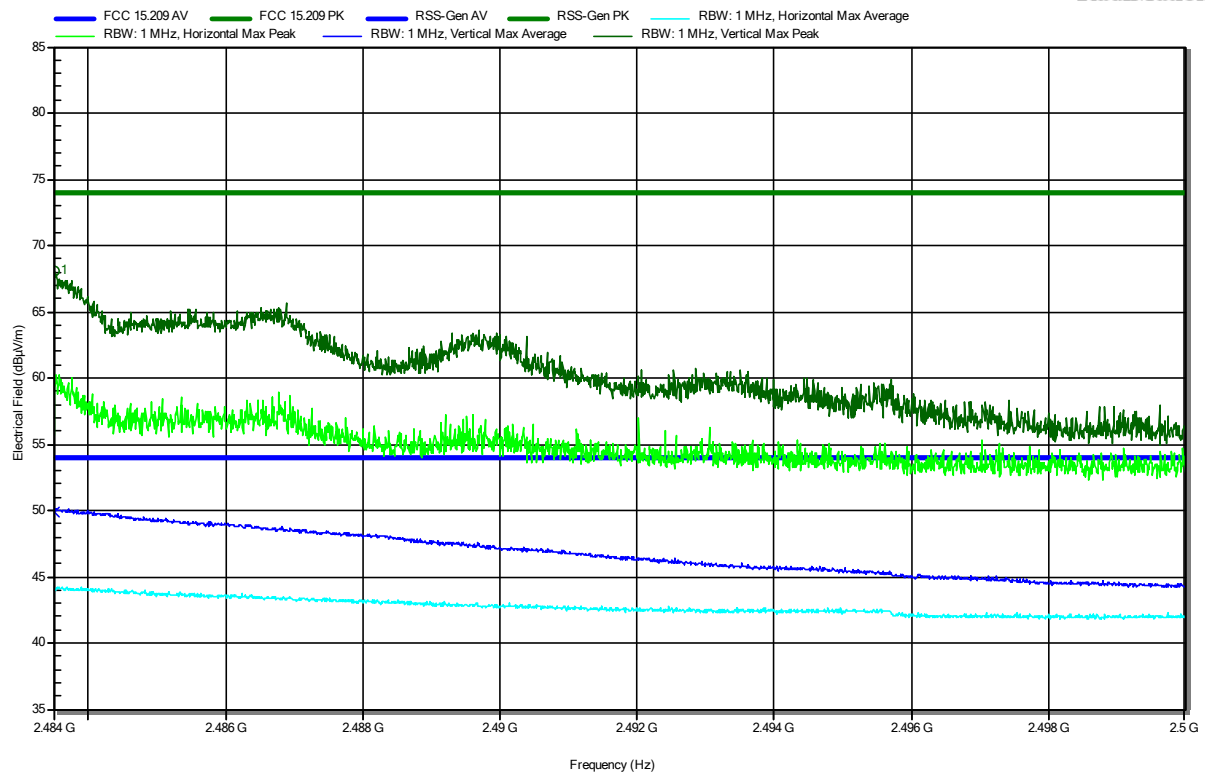
|                         |                         |                            |                                |                        |                          |
|-------------------------|-------------------------|----------------------------|--------------------------------|------------------------|--------------------------|
| Frequency<br>2.3889 GHz | Peak<br>61.89 dBμV/m    | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-12.11 dB   | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>2.3889 GHz | Average<br>50.26 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-3.74 dB | Average Status<br>Pass | Polarization<br>Vertical |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS0; CH 9\_2452 MHz; OFDM; BW40  
 Test Date: 2022-09-02  
 Note: upper bandedge

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RadiMation



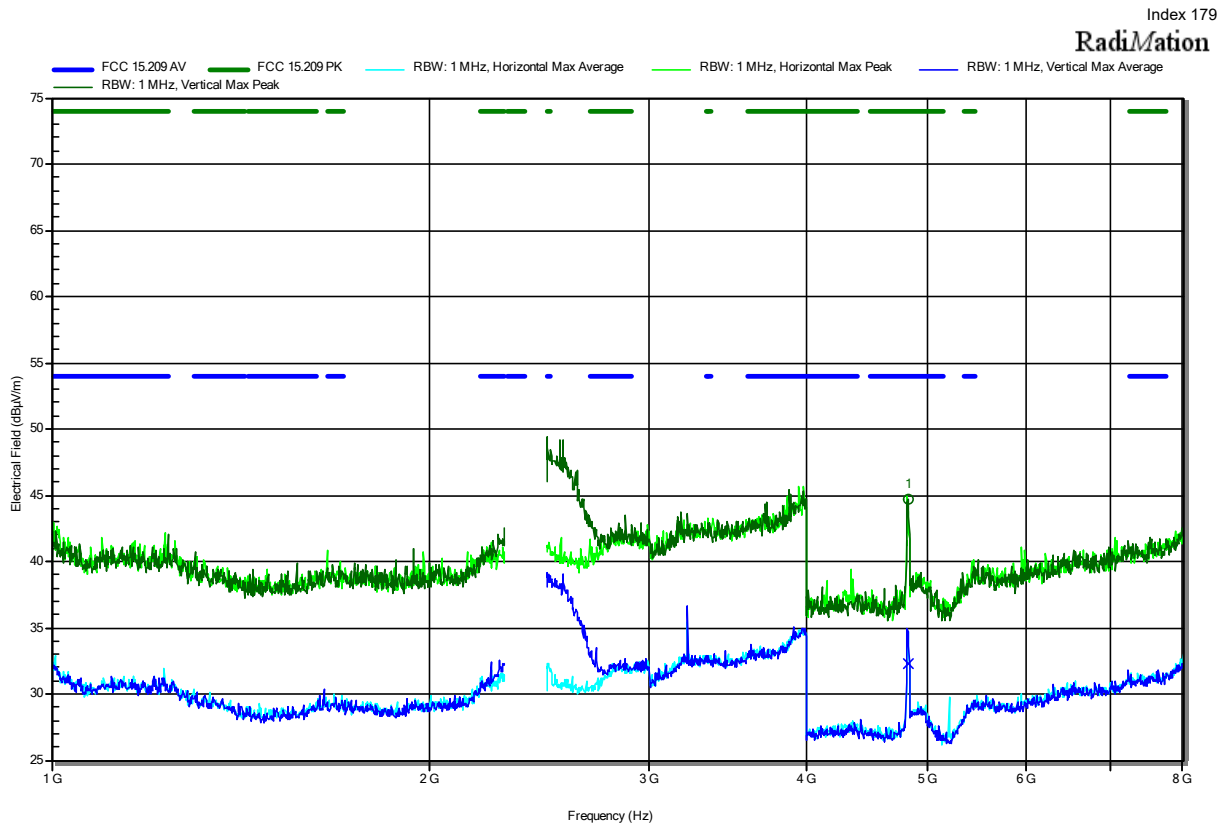
|            |              |               |                    |                |              |
|------------|--------------|---------------|--------------------|----------------|--------------|
| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
| 2.4835 GHz | 68.1 dBµV/m  | 74 dBµV/m     | -5.9 dB            | Pass           | Vertical     |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 2.4835 GHz | 49.87 dBµV/m | 54 dBµV/m     | -4.13 dB           | Pass           | Vertical     |

Test Report No.: G0M-2205-1454-TFC247WF-V02

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

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

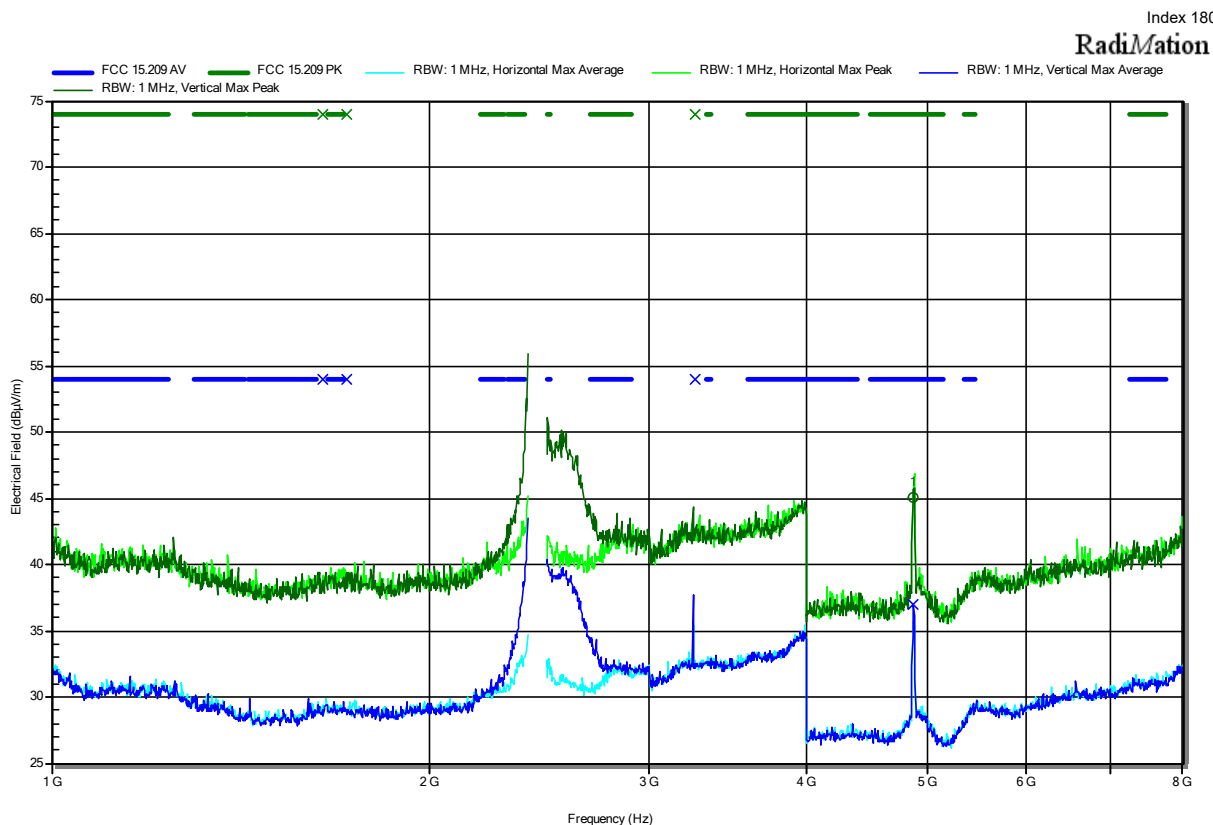
Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-09-09  
 Note:



|                         |                        |                            |                                |                        |                          |
|-------------------------|------------------------|----------------------------|--------------------------------|------------------------|--------------------------|
| Frequency<br>4.8251 GHz | Peak<br>44.65 dBμV/m   | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-29.35 dB   | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>4.8251 GHz | Average<br>32.3 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-21.7 dB | Average Status<br>Pass | Polarization<br>Vertical |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

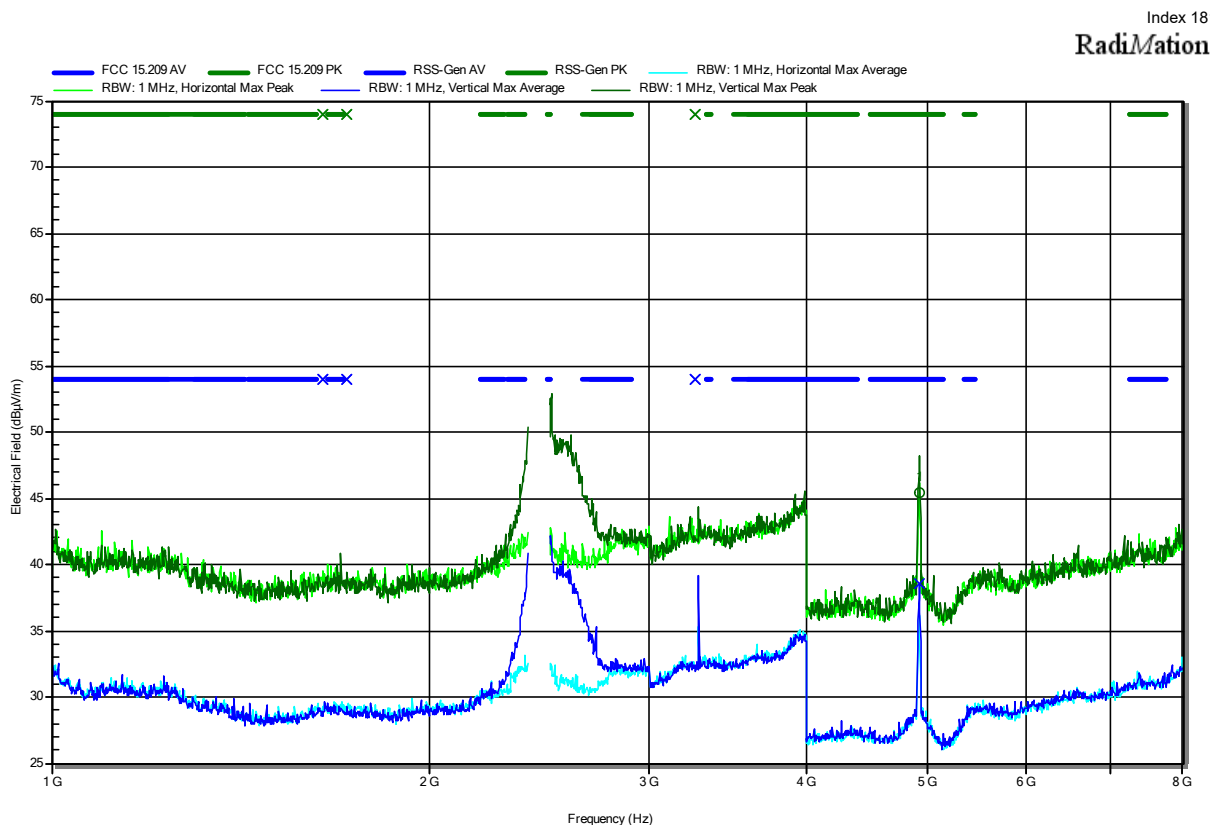
Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 6\_2437 MHz; OFDM; BW20  
 Test Date: 2022-09-09  
 Note:



|                         |                         |                            |                                 |                        |                          |
|-------------------------|-------------------------|----------------------------|---------------------------------|------------------------|--------------------------|
| Frequency<br>4.8747 GHz | Peak<br>45.09 dBμV/m    | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-28.91 dB    | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>4.8747 GHz | Average<br>36.97 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-17.03 dB | Average Status<br>Pass | Polarization<br>Vertical |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

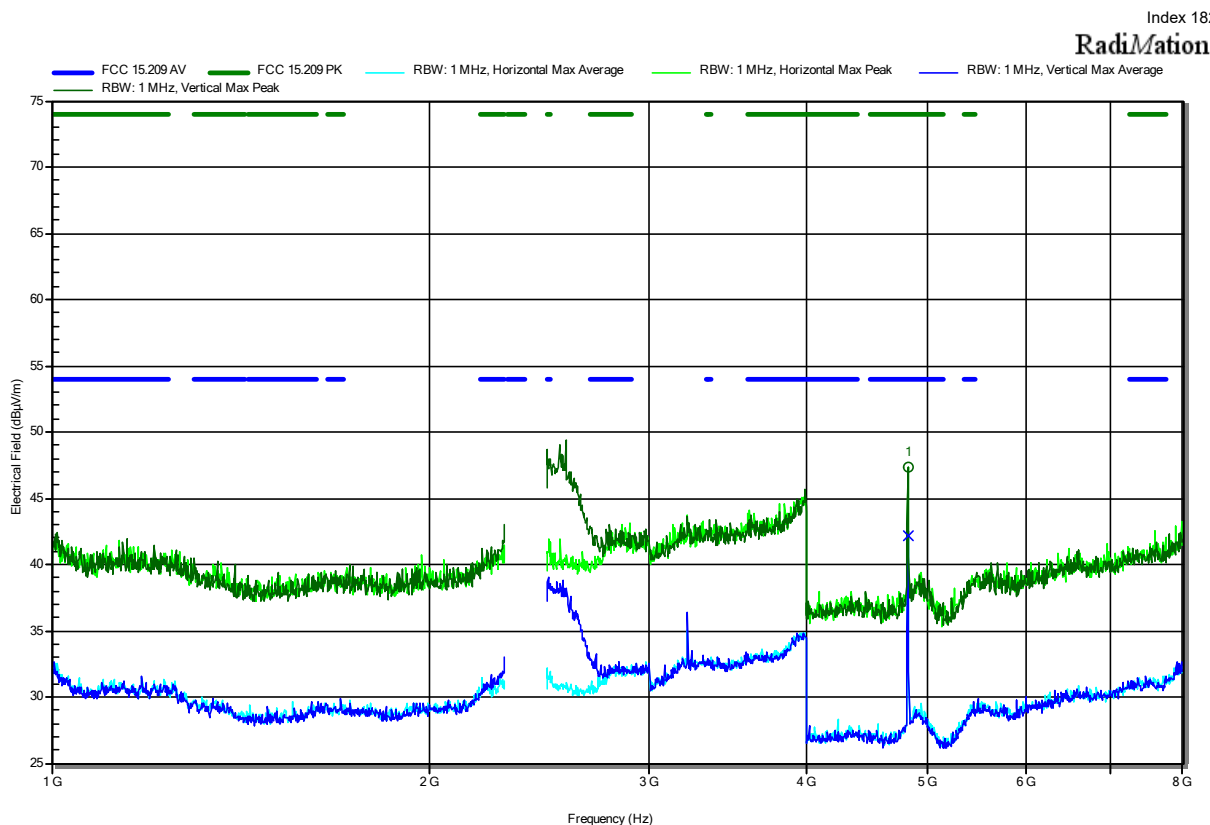
Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-09-09  
 Note:



|                        |                         |                            |                                 |                        |                          |
|------------------------|-------------------------|----------------------------|---------------------------------|------------------------|--------------------------|
| Frequency<br>4.925 GHz | Peak<br>45.38 dBμV/m    | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-28.62 dB    | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>4.925 GHz | Average<br>38.59 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-15.41 dB | Average Status<br>Pass | Polarization<br>Vertical |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1Mbps; CH 1\_2412 MHz; DSSS; BW20  
 Test Date: 2022-09-09  
 Note:



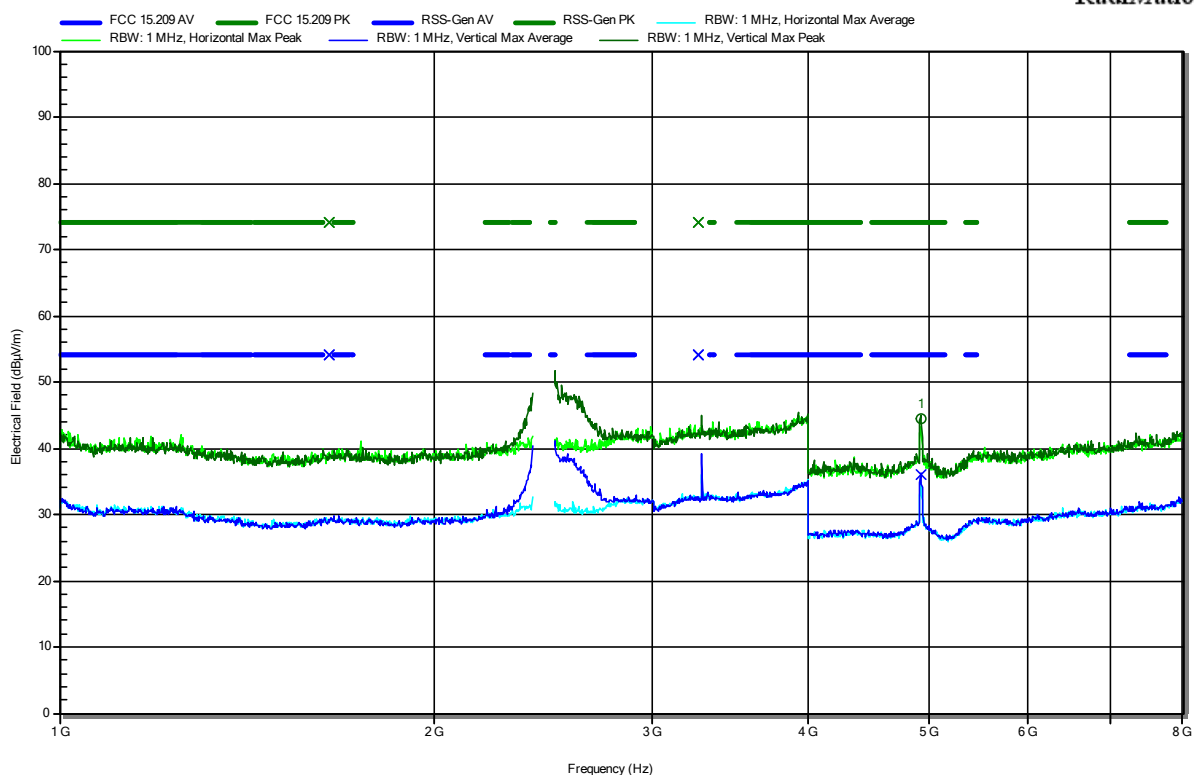
|           |              |               |                    |                |              |
|-----------|--------------|---------------|--------------------|----------------|--------------|
| Frequency | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
| 4.824 GHz | 47.39 dBμV/m | 74 dBμV/m     | -26.61 dB          | Pass           | Horizontal   |
| Frequency | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 4.824 GHz | 42.17 dBμV/m | 54 dBμV/m     | -11.83 dB          | Pass           | Horizontal   |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS1; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-09-09  
 Note:

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|                        |                         |                            |                                 |                        |                          |
|------------------------|-------------------------|----------------------------|---------------------------------|------------------------|--------------------------|
| Frequency<br>4.924 GHz | Peak<br>44.55 dBμV/m    | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-29.45 dB    | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>4.924 GHz | Average<br>36.04 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-17.96 dB | Average Status<br>Pass | Polarization<br>Vertical |

Test Report No.: G0M-2205-1454-TFC247WF-V02

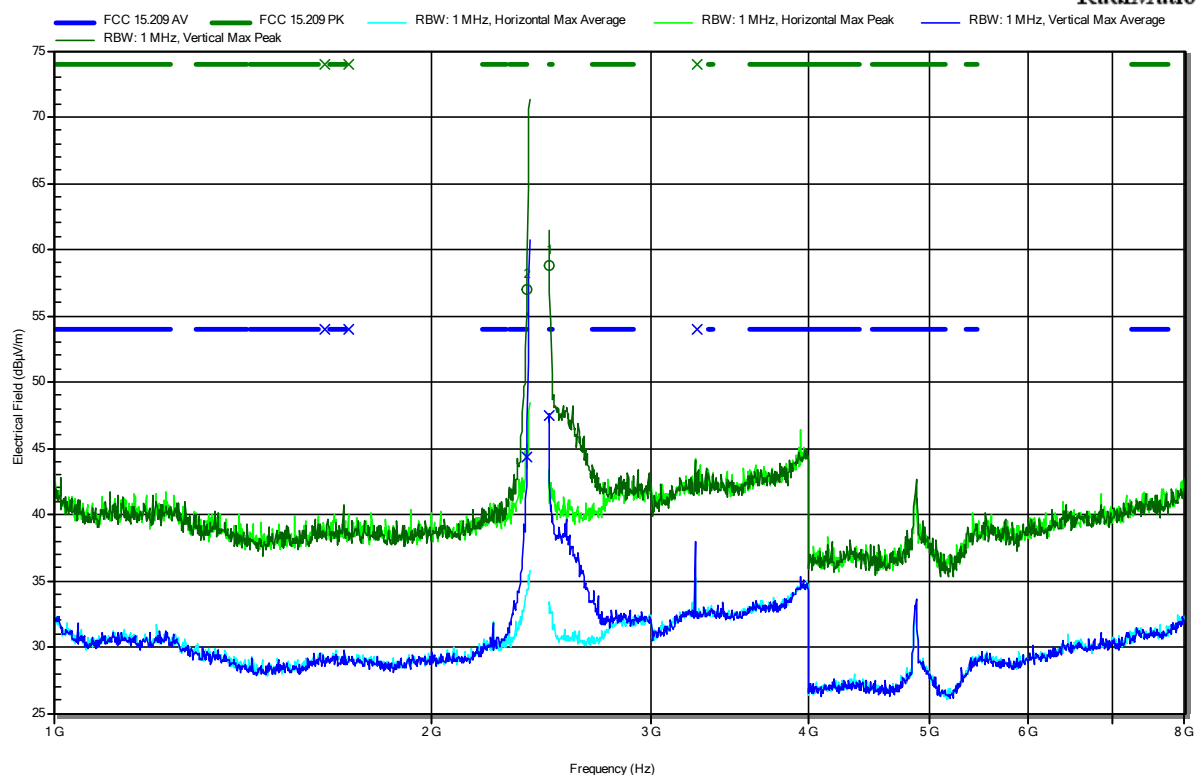
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS0; CH 6\_2437 MHz; OFDM; BW40  
 Test Date: 2022-09-09  
 Note:

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RadiMation



| Frequency  | Peak         | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|--------------|------------|-----------------|-------------|--------------|
| 2.3895 GHz | 56.93 dBμV/m | 74 dBμV/m  | -17.07 dB       | Pass        | Vertical     |
| 2.4837 GHz | 58.77 dBμV/m | 74 dBμV/m  | -15.23 dB       | Pass        | Vertical     |

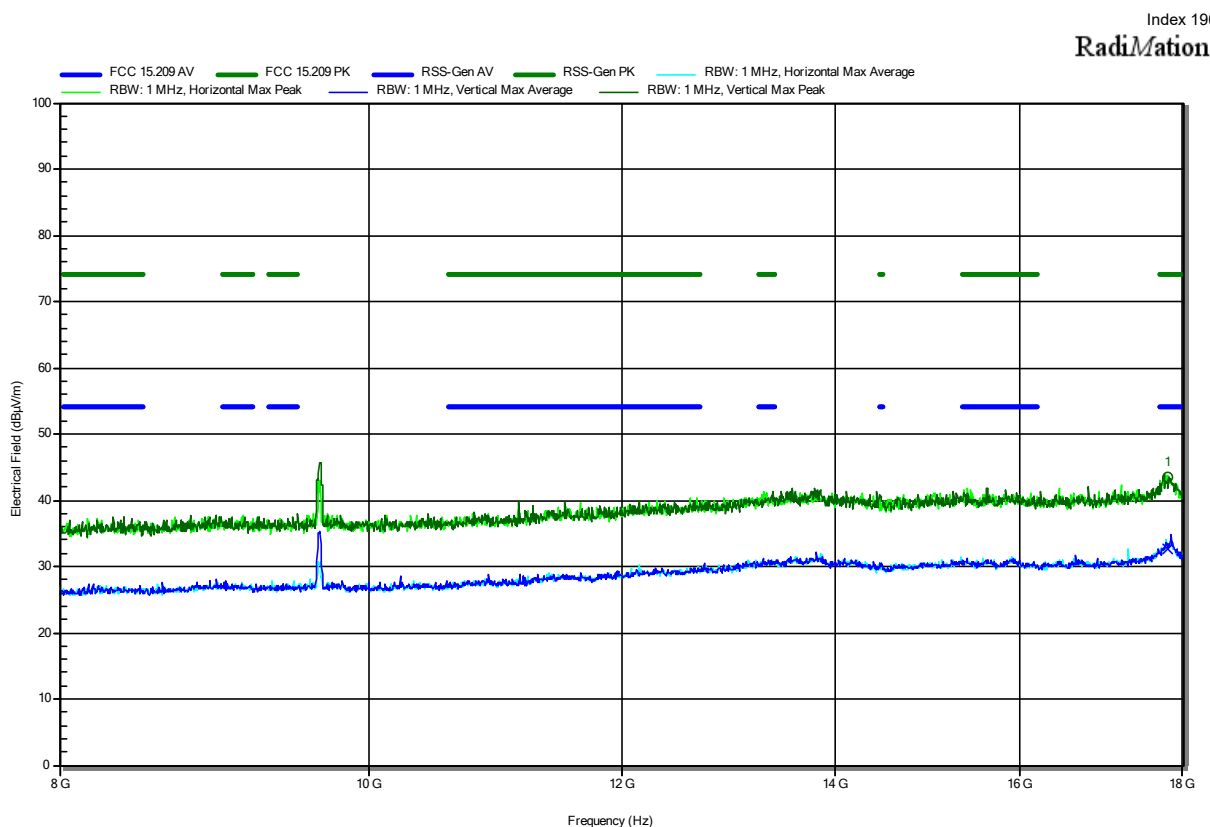
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 2.3895 GHz | 44.28 dBμV/m | 54 dBμV/m     | -9.72 dB           | Pass           | Vertical     |
| 2.4837 GHz | 47.42 dBμV/m | 54 dBμV/m     | -6.58 dB           | Pass           | Vertical     |

Test Report No.: G0M-2205-1454-TFC247WF-V02

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

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-09-09  
 Note:



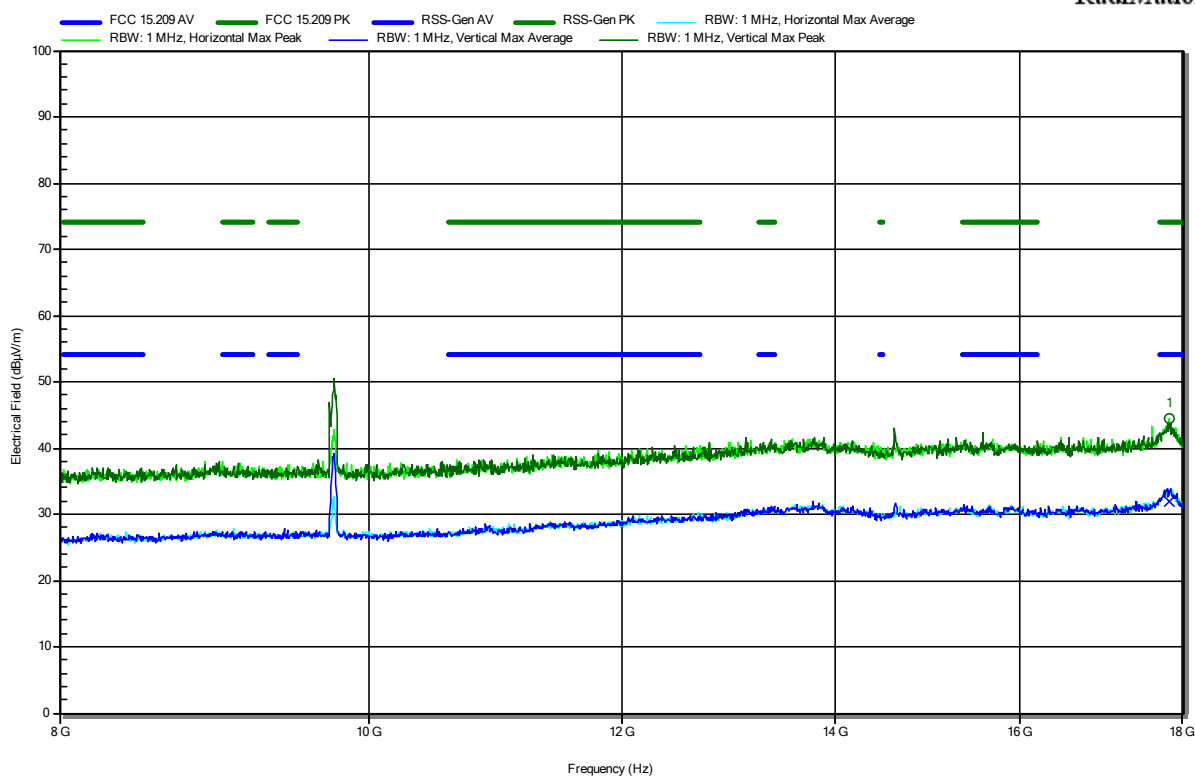
|                         |                         |                            |                                 |                        |                          |
|-------------------------|-------------------------|----------------------------|---------------------------------|------------------------|--------------------------|
| Frequency<br>17.813 GHz | Peak<br>43.42 dBµV/m    | Peak Limit<br>74 dBµV/m    | Peak Difference<br>-30.58 dB    | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>17.813 GHz | Average<br>32.71 dBµV/m | Average Limit<br>54 dBµV/m | Average Difference<br>-21.29 dB | Average Status<br>Pass | Polarization<br>Vertical |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 6\_2437 MHz; OFDM; BW20  
 Test Date: 2022-09-09  
 Note:

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|                         |                         |                            |                                 |                        |                            |
|-------------------------|-------------------------|----------------------------|---------------------------------|------------------------|----------------------------|
| Frequency<br>17.816 GHz | Peak<br>44.56 dBμV/m    | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-29.44 dB    | Peak Status<br>Pass    | Polarization<br>Horizontal |
| Frequency<br>17.816 GHz | Average<br>31.81 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-22.19 dB | Average Status<br>Pass | Polarization<br>Horizontal |

Test Report No.: G0M-2205-1454-TFC247WF-V02

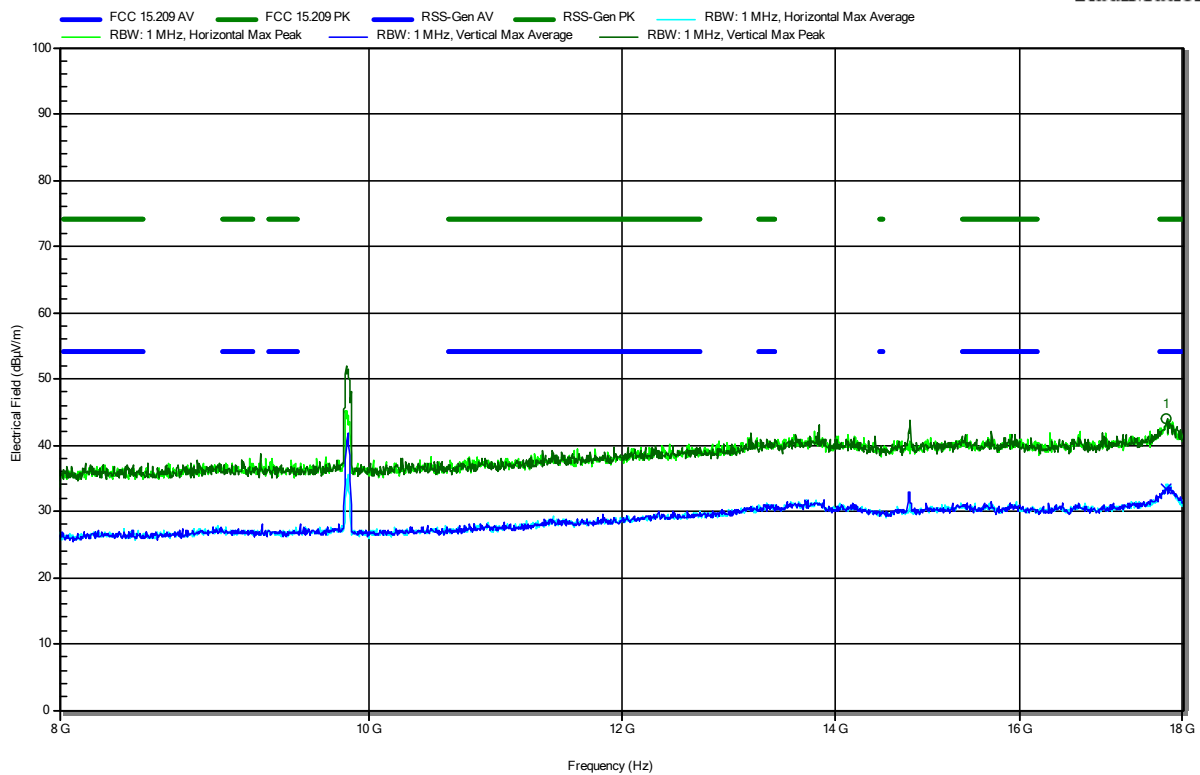
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-09-09  
 Note:

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|                         |                         |                            |                                 |                        |                          |
|-------------------------|-------------------------|----------------------------|---------------------------------|------------------------|--------------------------|
| Frequency<br>17.789 GHz | Peak<br>44.04 dBμV/m    | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-29.96 dB    | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>17.789 GHz | Average<br>33.48 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-20.52 dB | Average Status<br>Pass | Polarization<br>Vertical |

Test Report No.: G0M-2205-1454-TFC247WF-V02

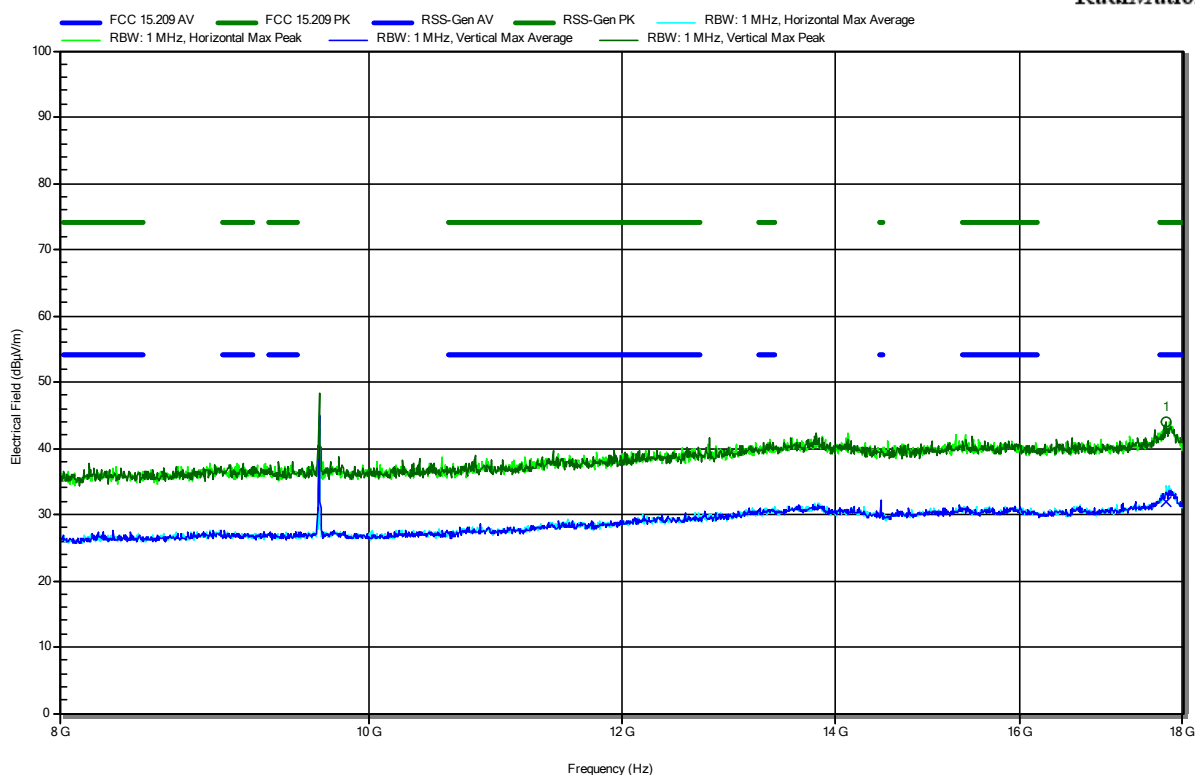
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1Mbps; CH 1\_2412 MHz; DSSS; BW20  
 Test Date: 2022-09-09  
 Note:

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**RadiMation**



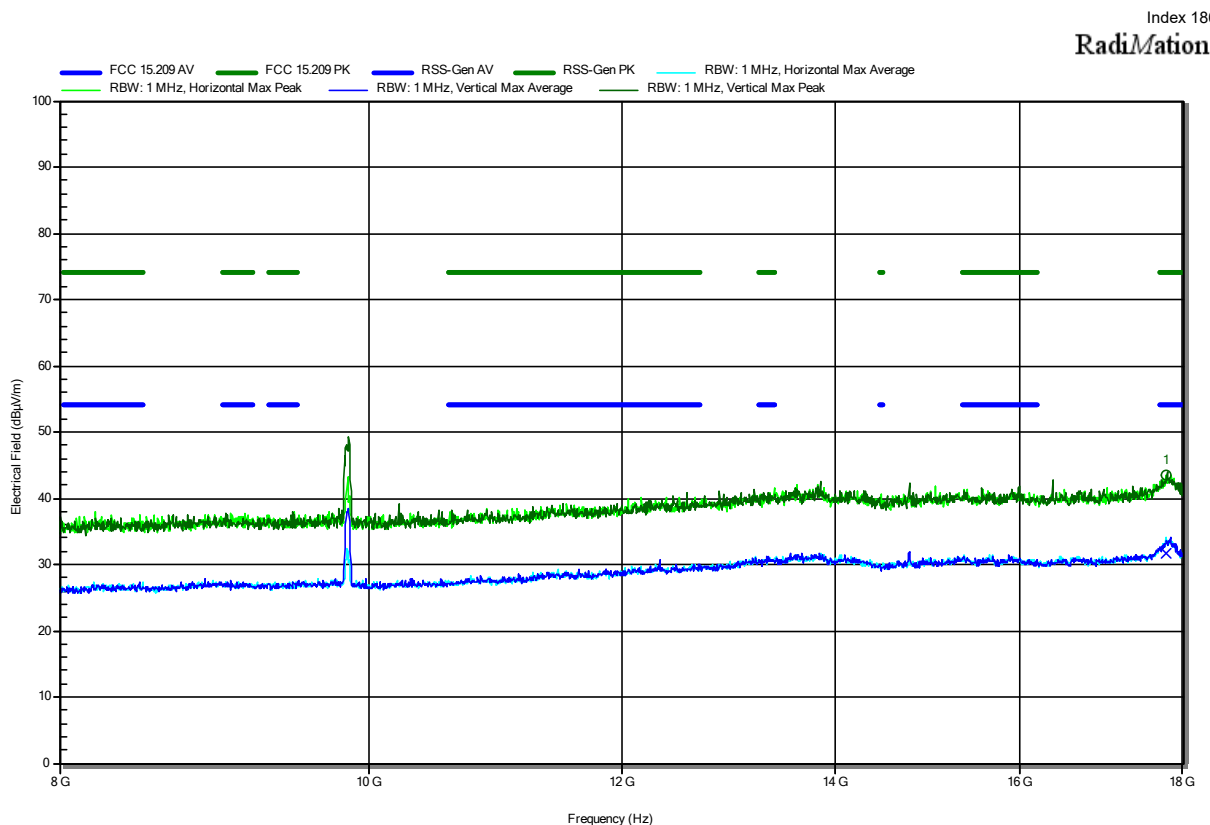
|                         |                         |                            |                                 |                        |                          |
|-------------------------|-------------------------|----------------------------|---------------------------------|------------------------|--------------------------|
| Frequency<br>17.778 GHz | Peak<br>44.04 dBµV/m    | Peak Limit<br>74 dBµV/m    | Peak Difference<br>-29.96 dB    | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>17.778 GHz | Average<br>31.93 dBµV/m | Average Limit<br>54 dBµV/m | Average Difference<br>-22.07 dB | Average Status<br>Pass | Polarization<br>Vertical |

Test Report No.: G0M-2205-1454-TFC247WF-V02

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

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

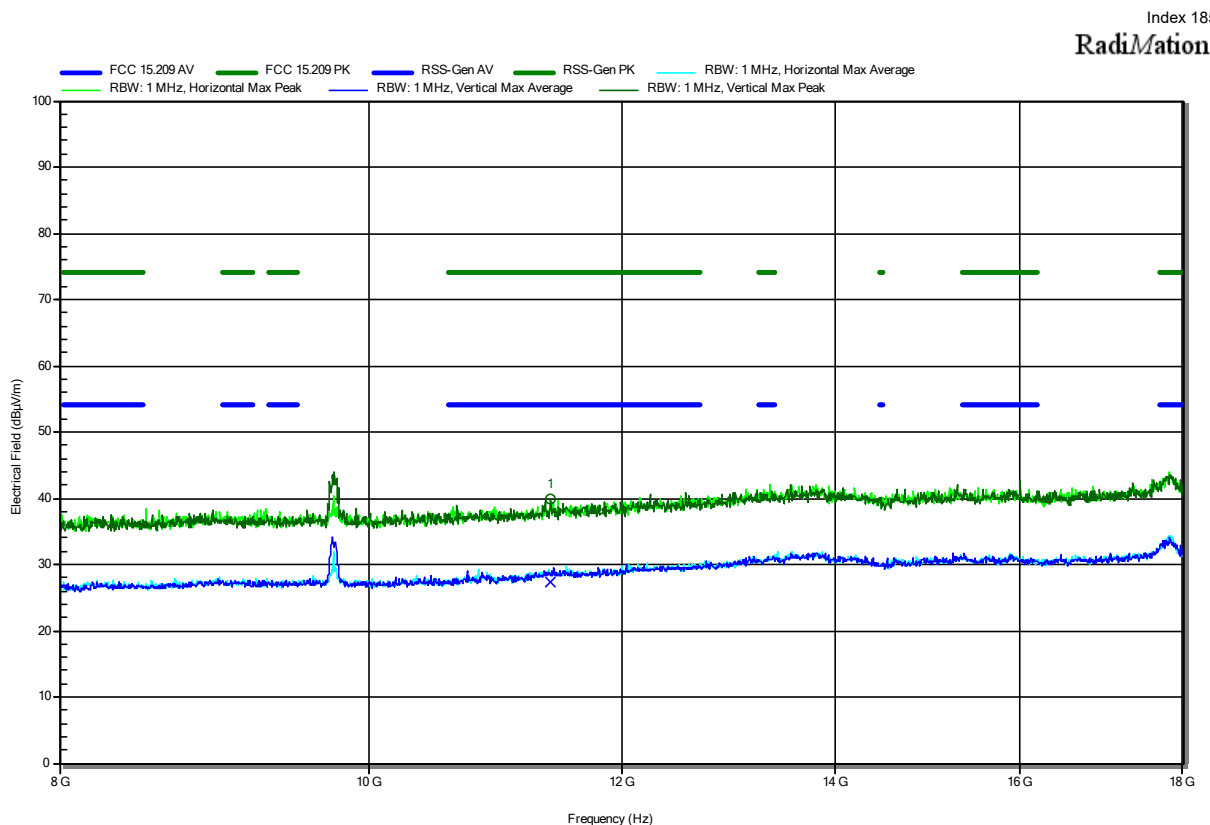
Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS1; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-09-09  
 Note:



|                         |                         |                            |                                 |                        |                            |
|-------------------------|-------------------------|----------------------------|---------------------------------|------------------------|----------------------------|
| Frequency<br>17.779 GHz | Peak<br>43.47 dBµV/m    | Peak Limit<br>74 dBµV/m    | Peak Difference<br>-30.53 dB    | Peak Status<br>Pass    | Polarization<br>Horizontal |
| Frequency<br>17.779 GHz | Average<br>31.62 dBµV/m | Average Limit<br>54 dBµV/m | Average Difference<br>-22.38 dB | Average Status<br>Pass | Polarization<br>Horizontal |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS0; CH 6\_2437 MHz; OFDM; BW40  
 Test Date: 2022-09-09  
 Note:



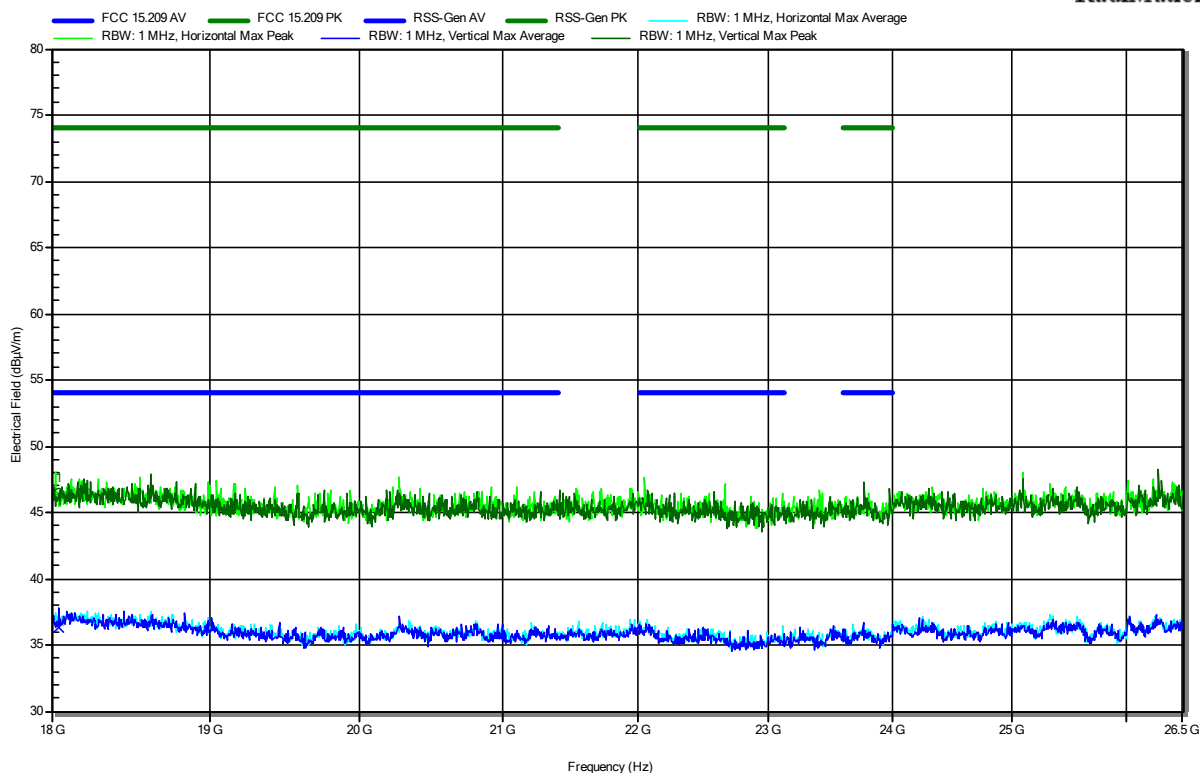
|            |              |               |                    |                |              |
|------------|--------------|---------------|--------------------|----------------|--------------|
| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
| 11.403 GHz | 39.88 dBµV/m | 74 dBµV/m     | -34.12 dB          | Pass           | Vertical     |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 11.403 GHz | 27.46 dBµV/m | 54 dBµV/m     | -26.54 dB          | Pass           | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-09-09  
 Note:

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RadiMation



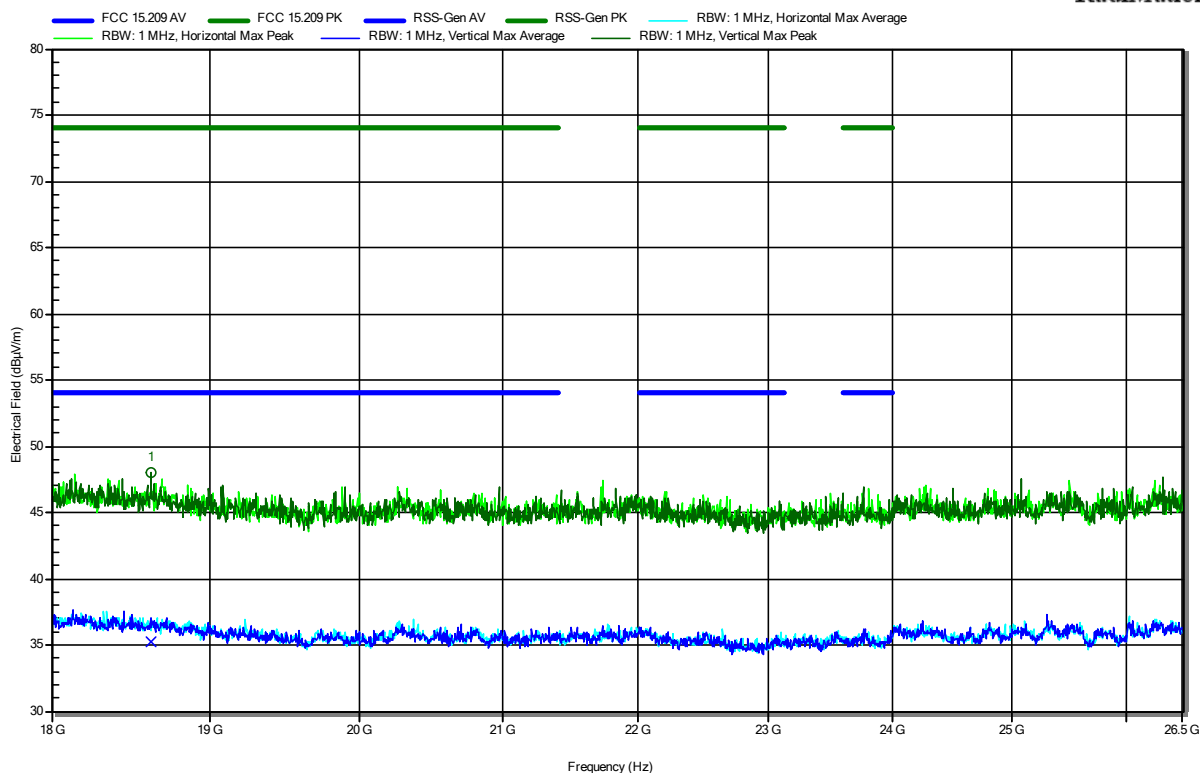
|            |              |               |                    |                |              |
|------------|--------------|---------------|--------------------|----------------|--------------|
| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
| 18.041 GHz | 46.41 dBμV/m | 74 dBμV/m     | -27.59 dB          | Pass           | Vertical     |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 18.041 GHz | 36.27 dBμV/m | 54 dBμV/m     | -17.73 dB          | Pass           | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 6\_2437 MHz; OFDM; BW20  
 Test Date: 2022-09-09  
 Note:

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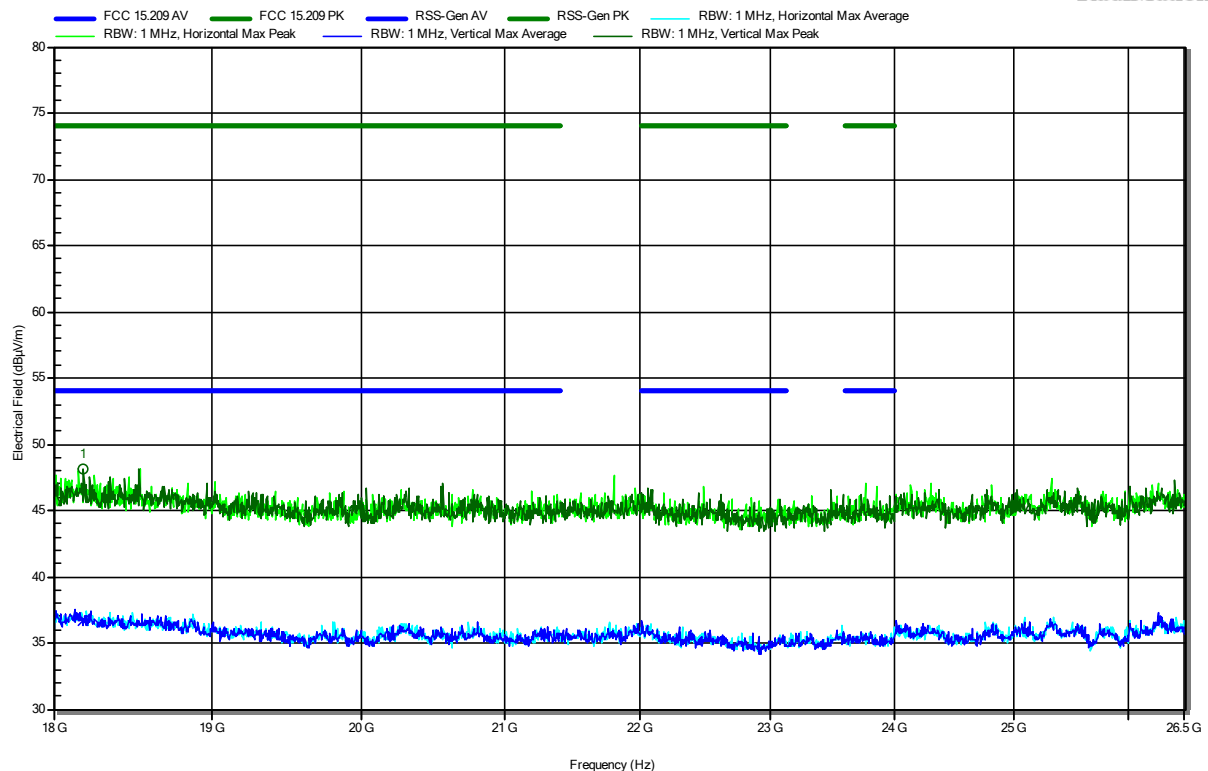
|            |              |               |                    |                |              |
|------------|--------------|---------------|--------------------|----------------|--------------|
| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
| 18.622 GHz | 47.99 dBμV/m | 74 dBμV/m     | -26.01 dB          | Pass           | Vertical     |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 18.622 GHz | 35.19 dBμV/m | 54 dBμV/m     | -18.81 dB          | Pass           | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-09-09  
 Note:

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RadiMation



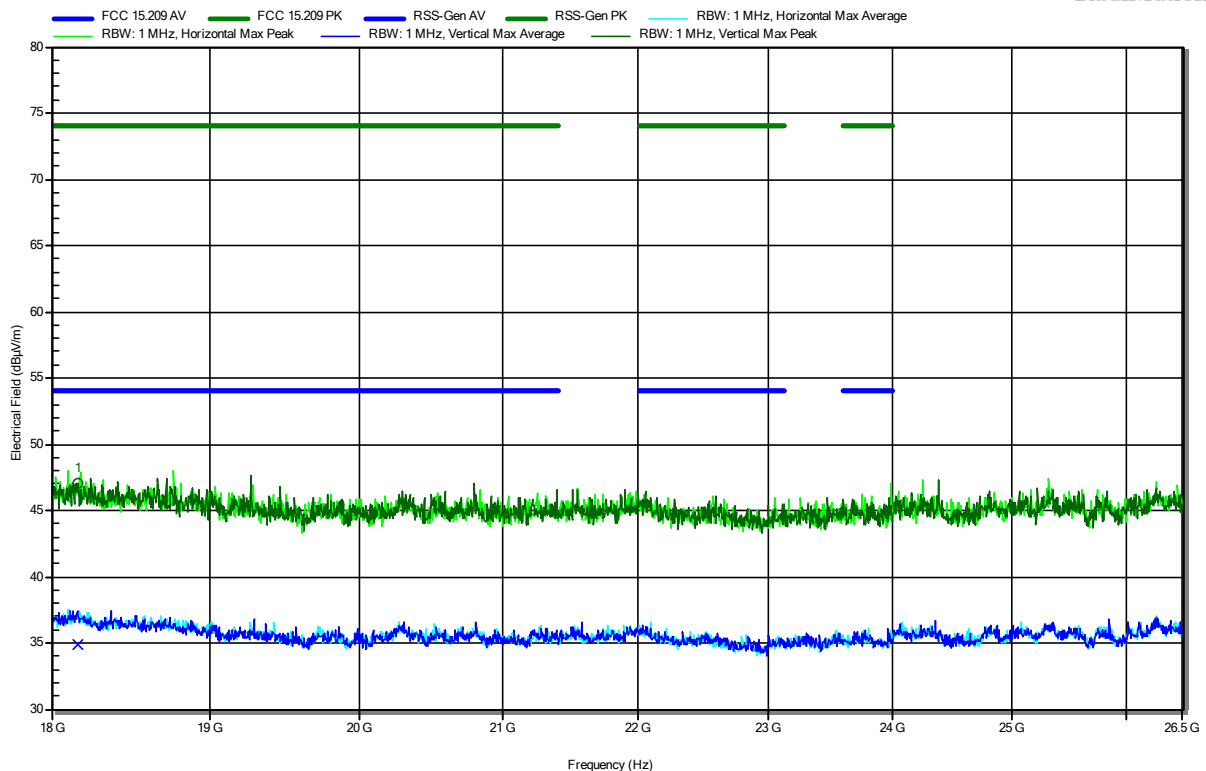
| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 18.184 GHz | 48.11 dBμV/m | 74 dBμV/m     | -25.89 dB          | Pass           | Vertical     |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 18.184 GHz | 36.69 dBμV/m | 54 dBμV/m     | -17.31 dB          | Pass           | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1Mbps; CH 1\_2412 MHz; DSSS; BW20  
 Test Date: 2022-09-09  
 Note:

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RadiMation



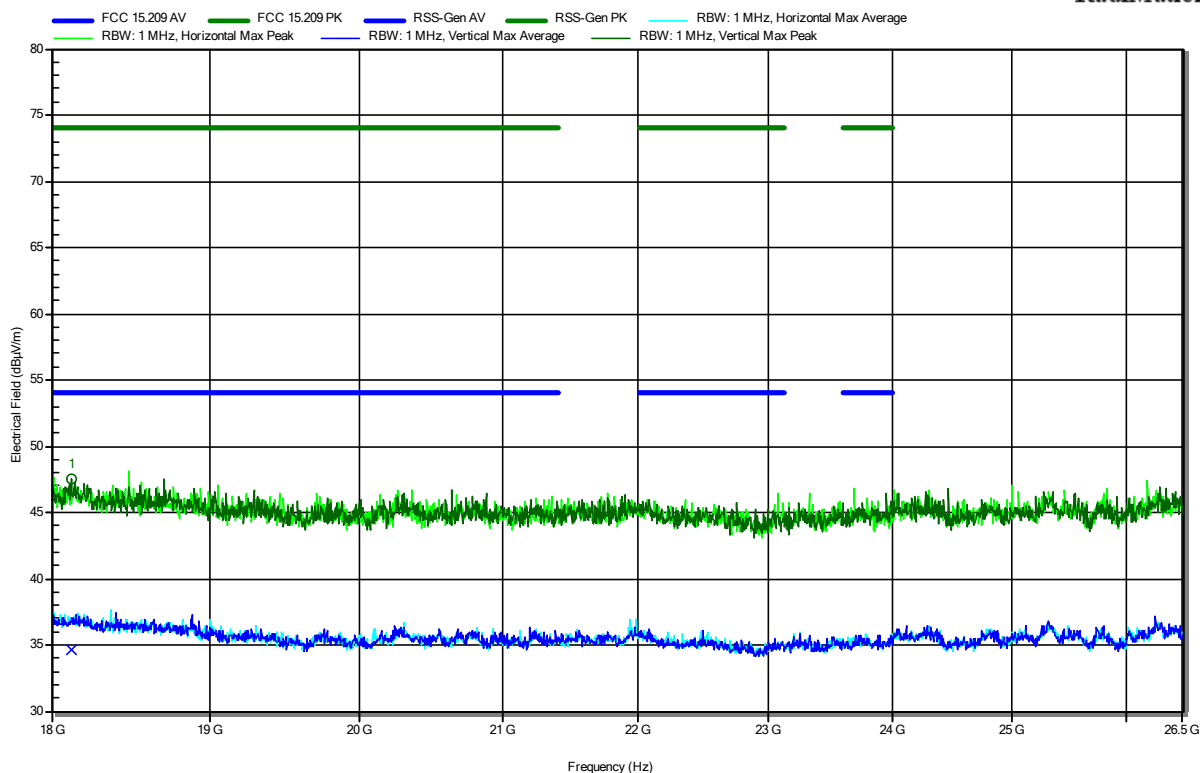
|                         |                         |                            |                                 |                        |                          |
|-------------------------|-------------------------|----------------------------|---------------------------------|------------------------|--------------------------|
| Frequency<br>18.163 GHz | Peak<br>47.01 dBμV/m    | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-26.99 dB    | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>18.163 GHz | Average<br>34.94 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-19.06 dB | Average Status<br>Pass | Polarization<br>Vertical |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS1; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-09-09  
 Note:

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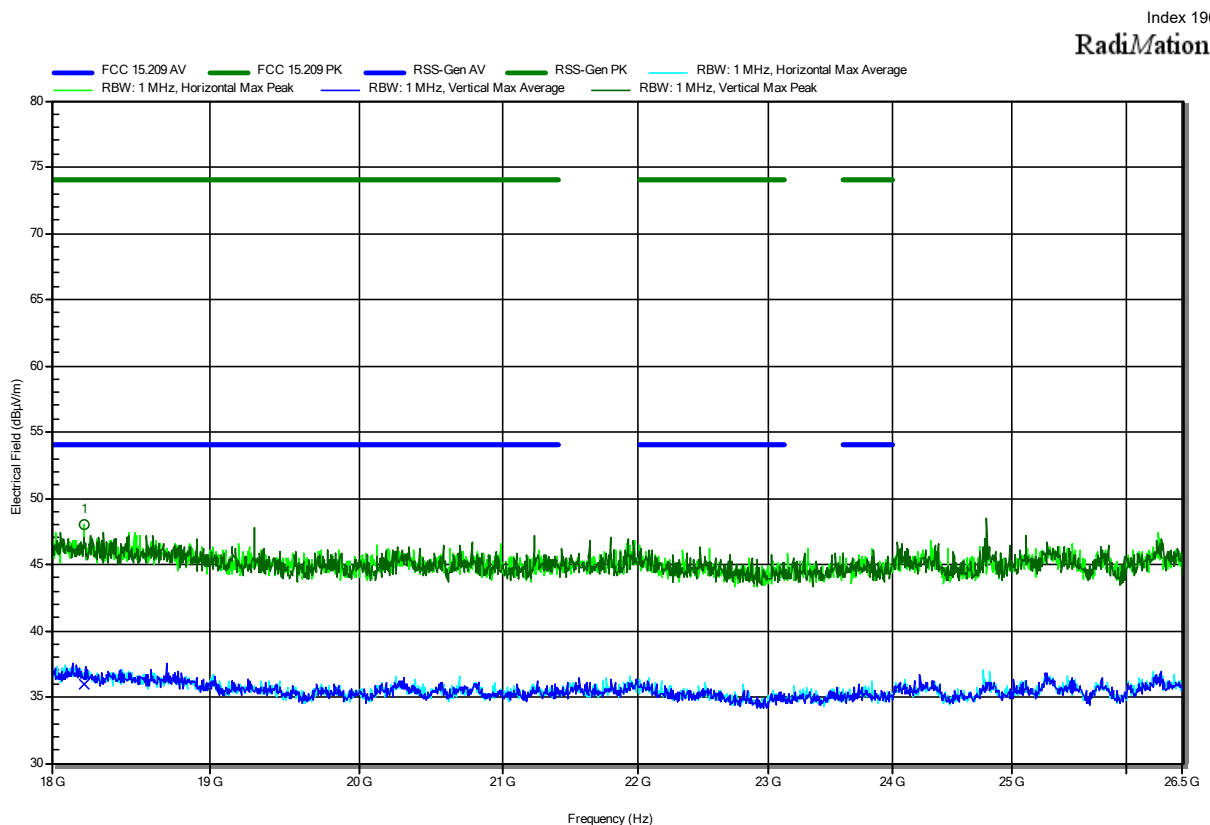
RadiMation



|                         |                         |                            |                                 |                        |                          |
|-------------------------|-------------------------|----------------------------|---------------------------------|------------------------|--------------------------|
| Frequency<br>18.124 GHz | Peak<br>47.59 dBμV/m    | Peak Limit<br>74 dBμV/m    | Peak Difference<br>-26.41 dB    | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>18.124 GHz | Average<br>34.64 dBμV/m | Average Limit<br>54 dBμV/m | Average Difference<br>-19.36 dB | Average Status<br>Pass | Polarization<br>Vertical |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS0; CH 6\_2437 MHz; OFDM; BW40  
 Test Date: 2022-09-09  
 Note:

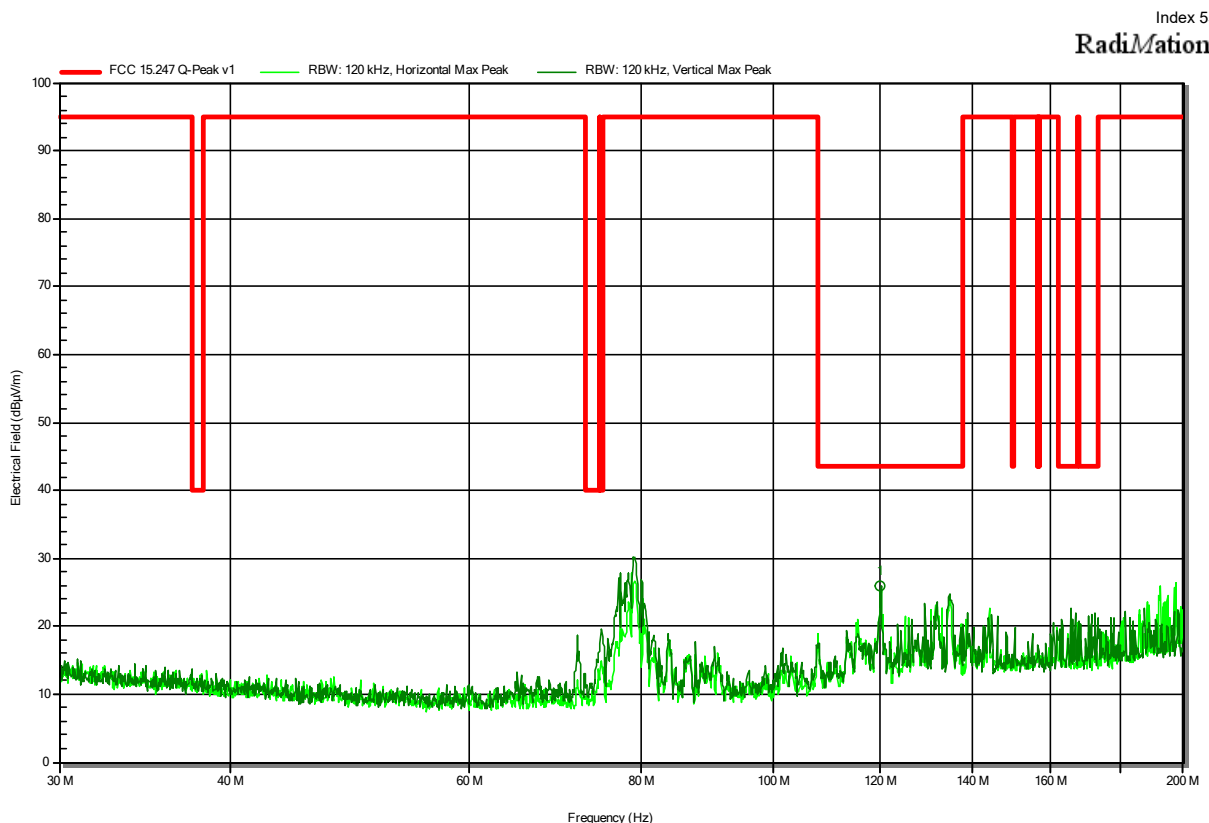


| Frequency | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
|-----------|--------------|---------------|--------------------|----------------|--------------|
| 18.2 GHz  | 48.07 dBμV/m | 74 dBμV/m     | -25.93 dB          | Pass           | Horizontal   |
| Frequency | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 18.2 GHz  | 35.95 dBμV/m | 54 dBμV/m     | -18.05 dB          | Pass           | Horizontal   |

## ANNEX B Transmitter spurious emissions (Tested variant 1)

### Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-08-29  
 Note:



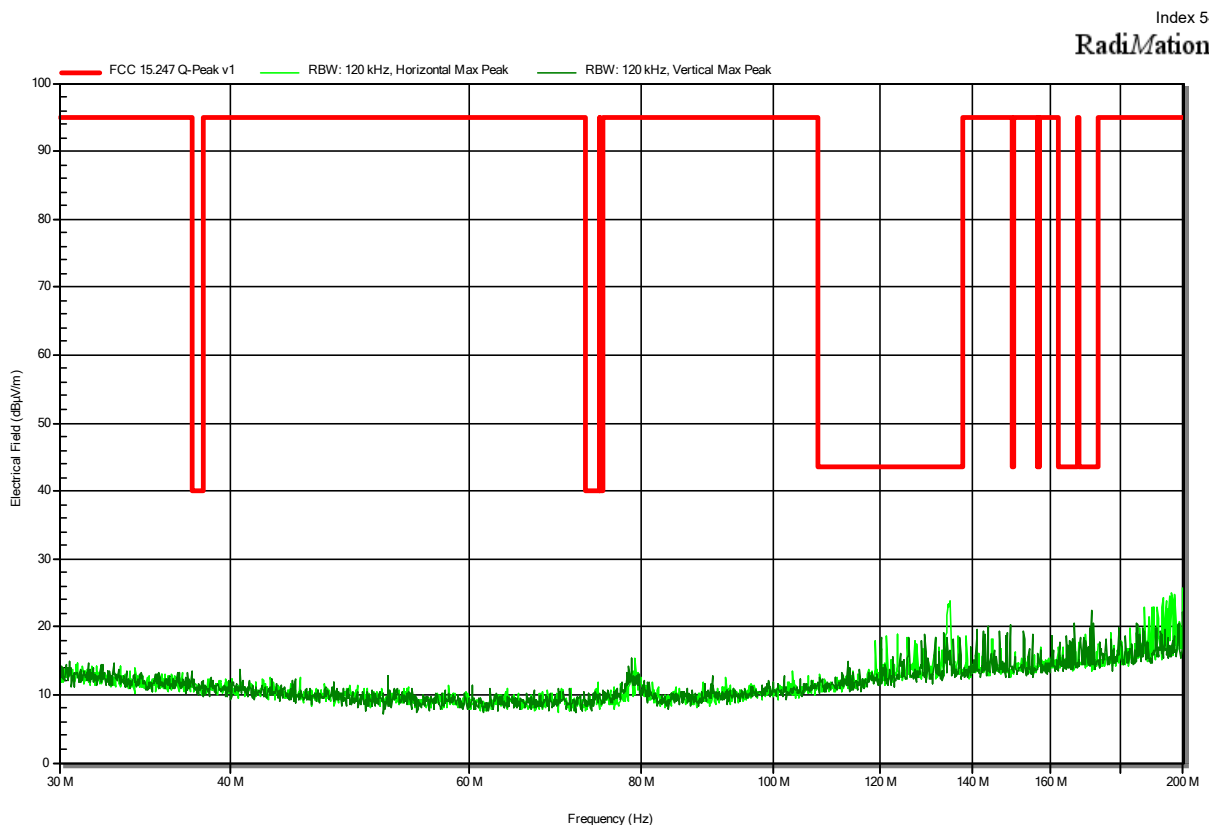
| Frequency   | Peak      | Peak Limit  | Peak Difference | Peak Status | Polarization |
|-------------|-----------|-------------|-----------------|-------------|--------------|
| 119.998 MHz | 26 dBµV/m | 43.5 dBµV/m | -17.48 dB       | Pass        | Vertical     |

Test Report No.: G0M-2205-1454-TFC247WF-V02

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

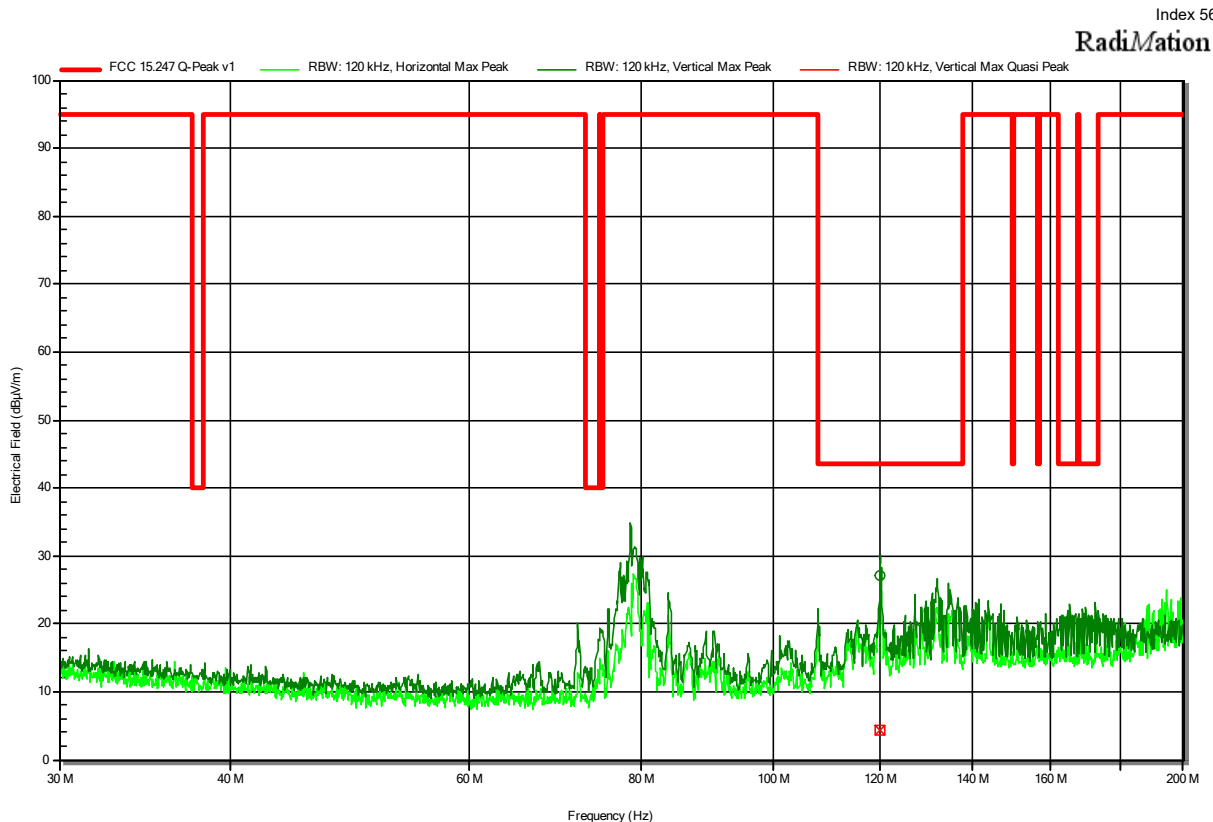
## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 6\_2437 MHz; OFDM; BW20  
 Test Date: 2022-08-29  
 Note:



## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-08-29  
 Note:



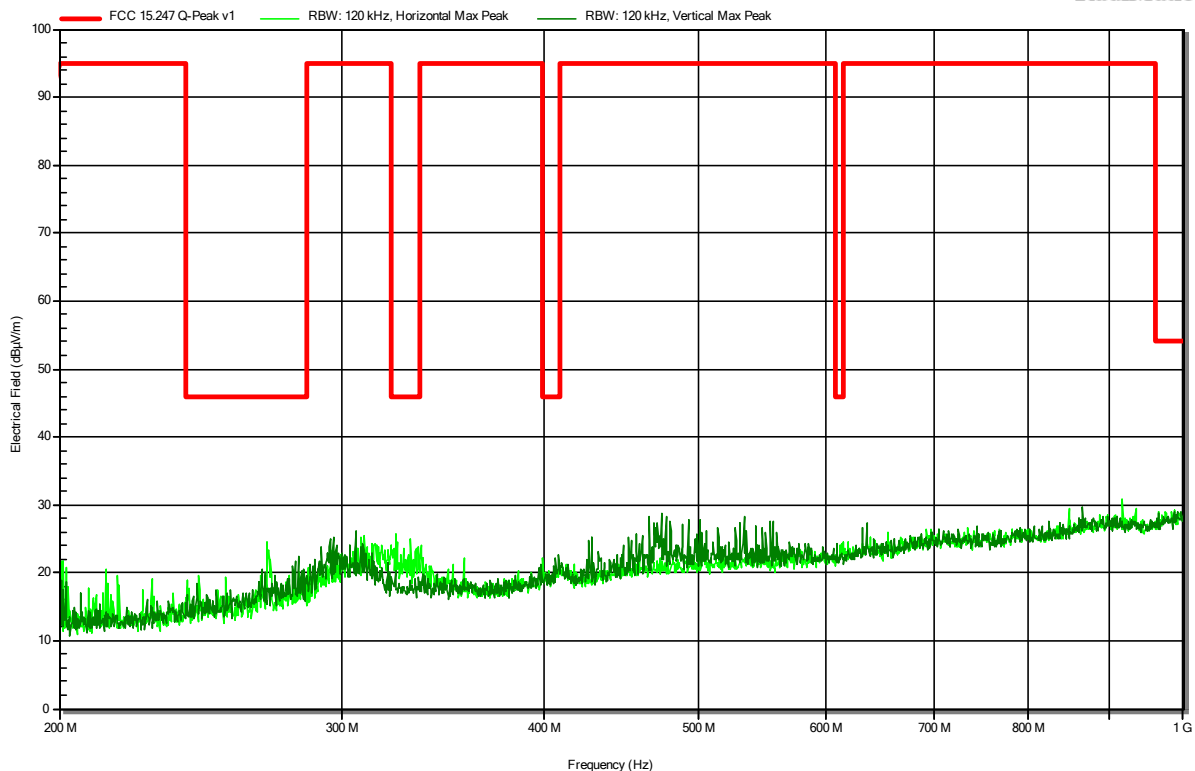
| Frequency   | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Polarization |
|-------------|------------|------------------|-----------------------|-------------------|--------------|
| 119.913 MHz | 4.3 dBµV/m | 43.5 dBµV/m      | -39.22 dB             | Pass              | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-08-29  
 Note:

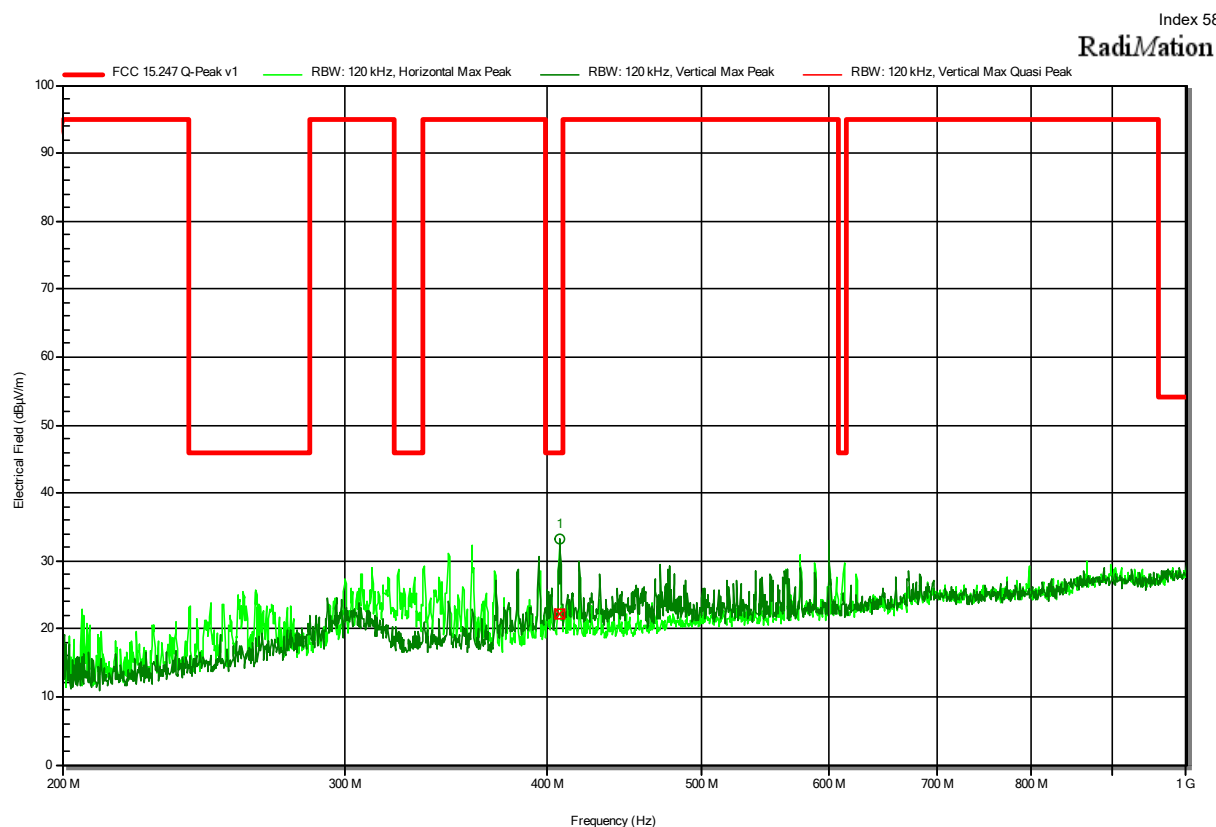
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## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

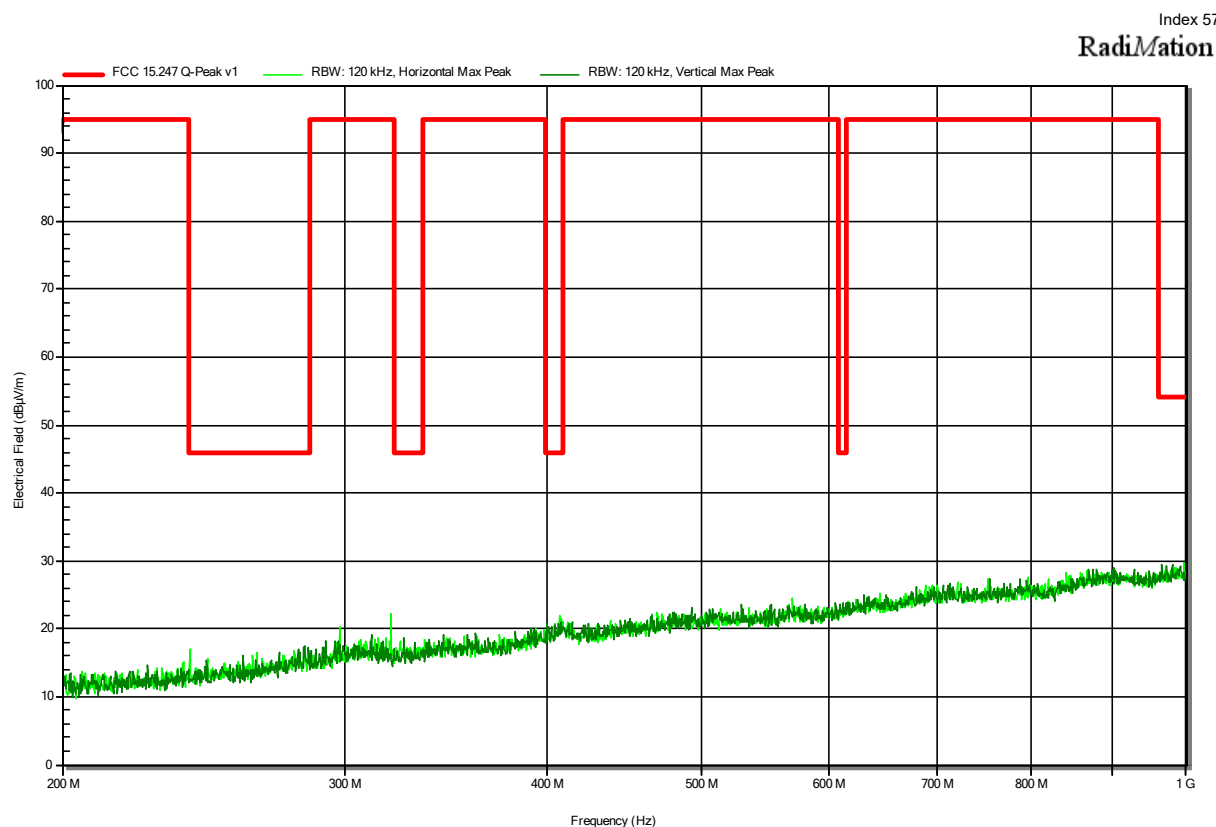
Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 6\_2437 MHz; OFDM; BW20  
 Test Date: 2022-08-29  
 Note:



| Frequency  | Quasi-Peak  | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Polarization |
|------------|-------------|------------------|-----------------------|-------------------|--------------|
| 407.62 MHz | 22.1 dBµV/m | 46 dBµV/m        | -23.86 dB             | Pass              | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-08-29  
 Note:

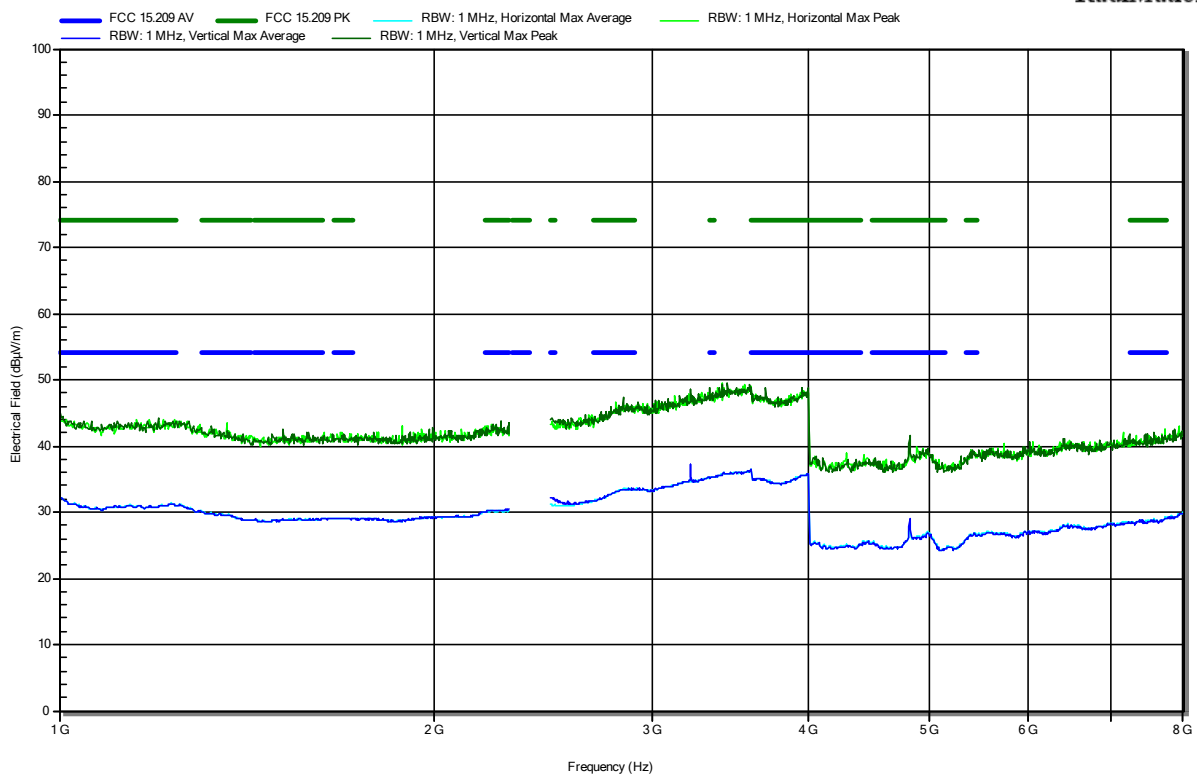


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-09-16  
 Note:

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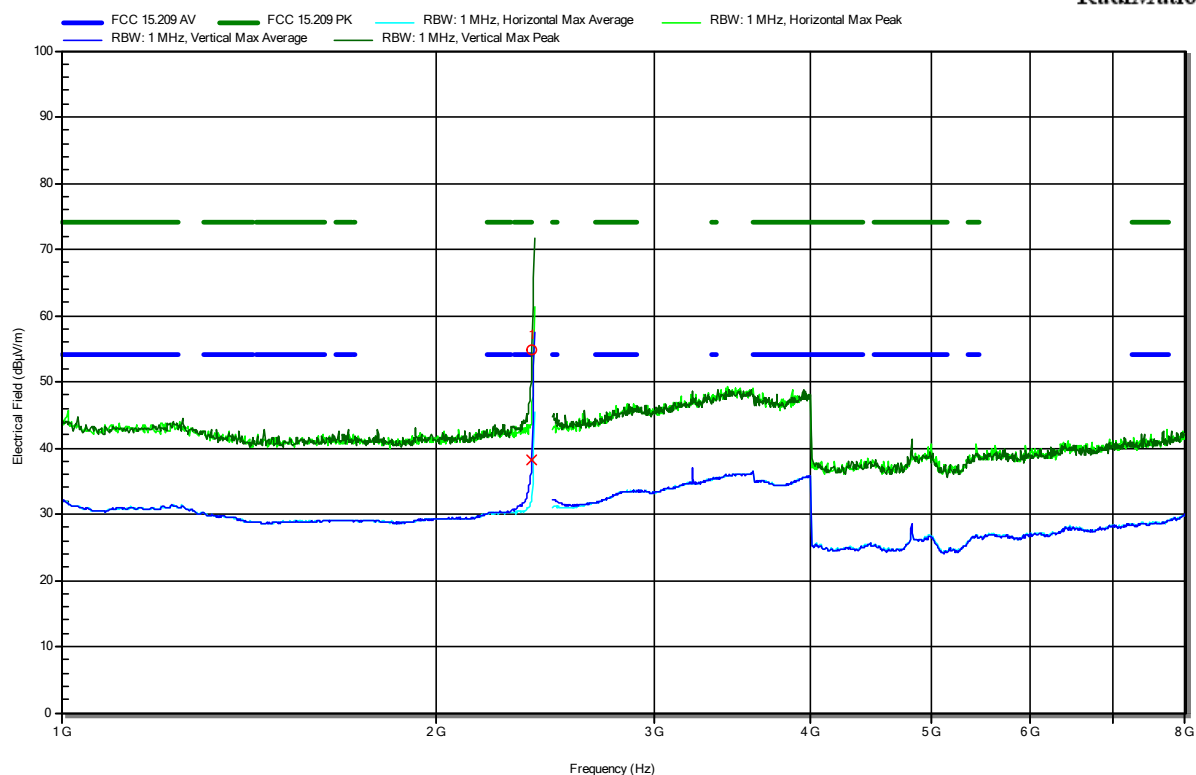


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 6\_2437 MHz; OFDM; BW20  
 Test Date: 2022-09-16  
 Note:

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|                         |                        |                           |                                 |                        |                          |
|-------------------------|------------------------|---------------------------|---------------------------------|------------------------|--------------------------|
| Frequency<br>2.3888 GHz | Peak<br>54.91 dBV/m    | Peak Limit<br>74 dBV/m    | Peak Difference<br>-19.09 dB    | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>2.3888 GHz | Average<br>38.11 dBV/m | Average Limit<br>54 dBV/m | Average Difference<br>-15.89 dB | Average Status<br>Pass | Polarization<br>Vertical |

Test Report No.: G0M-2205-1454-TFC247WF-V02

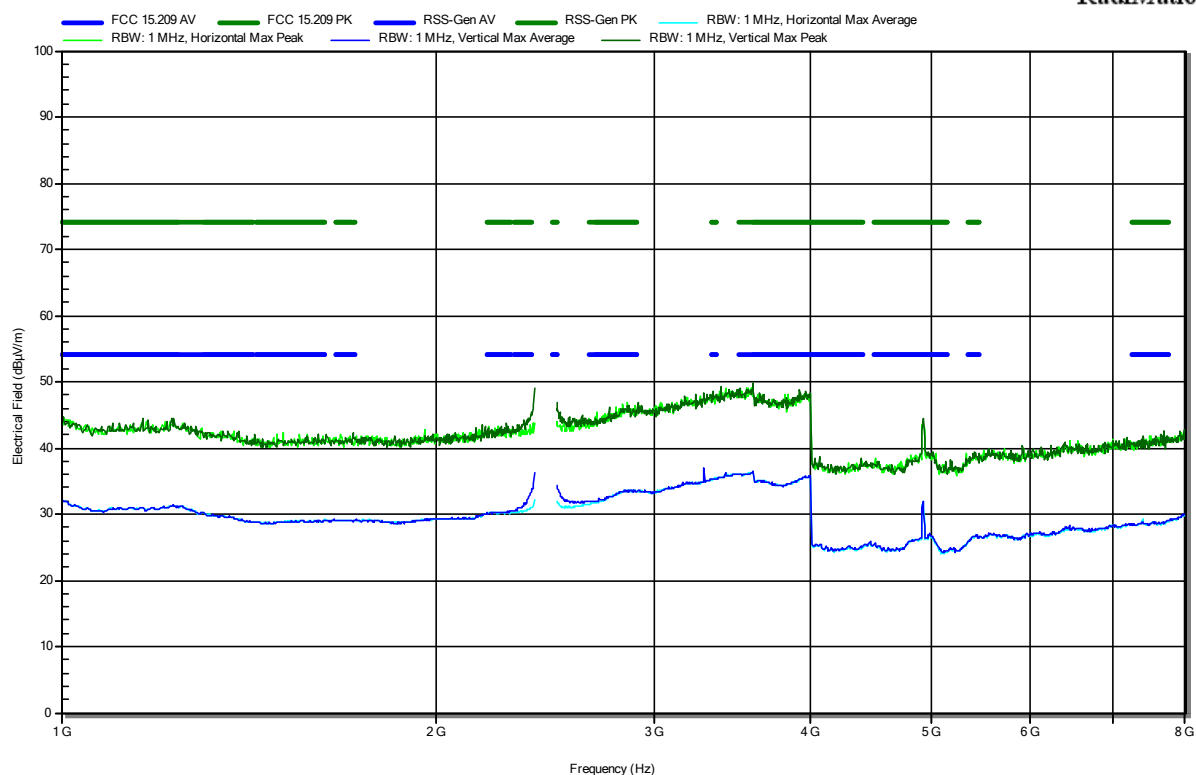
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-09-16  
 Note:

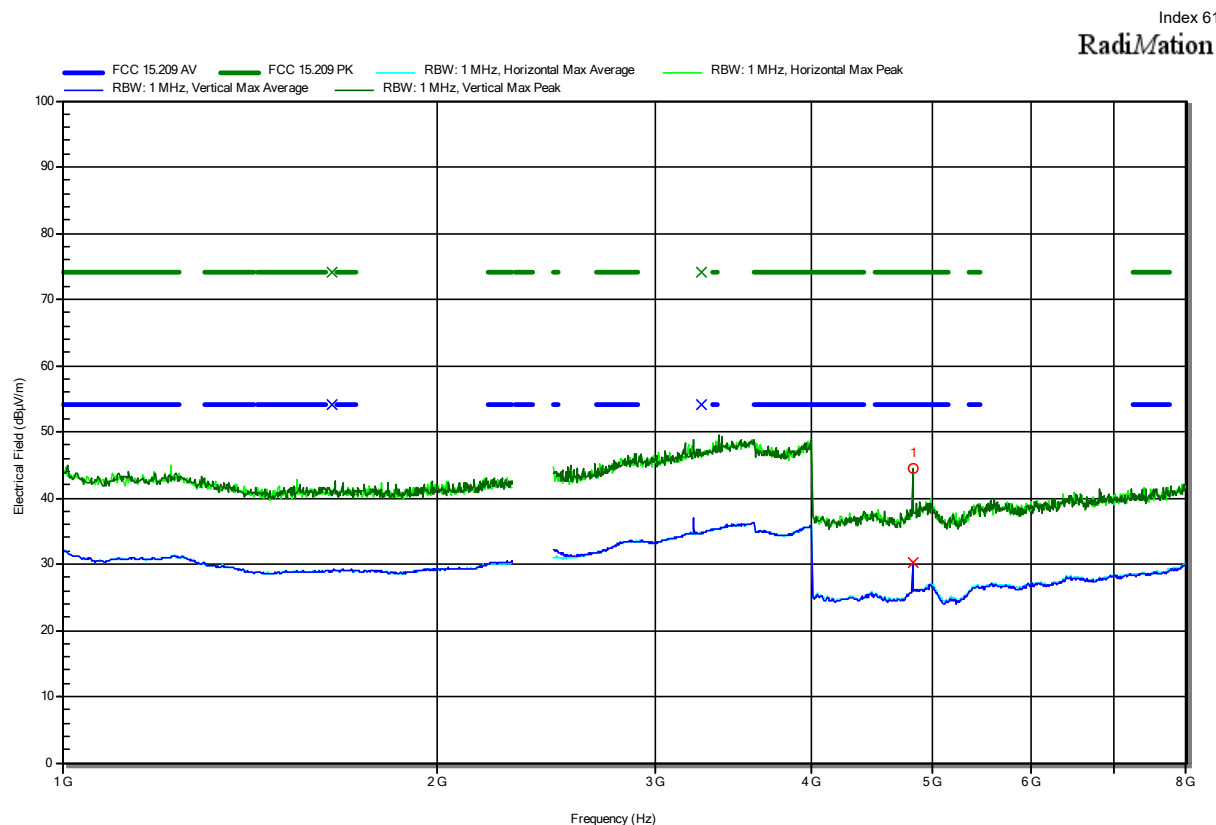
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RadiMation



## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1 Mbps; CH 1\_2412 MHz; DSSS; BW20  
 Test Date: 2022-09-16  
 Note:



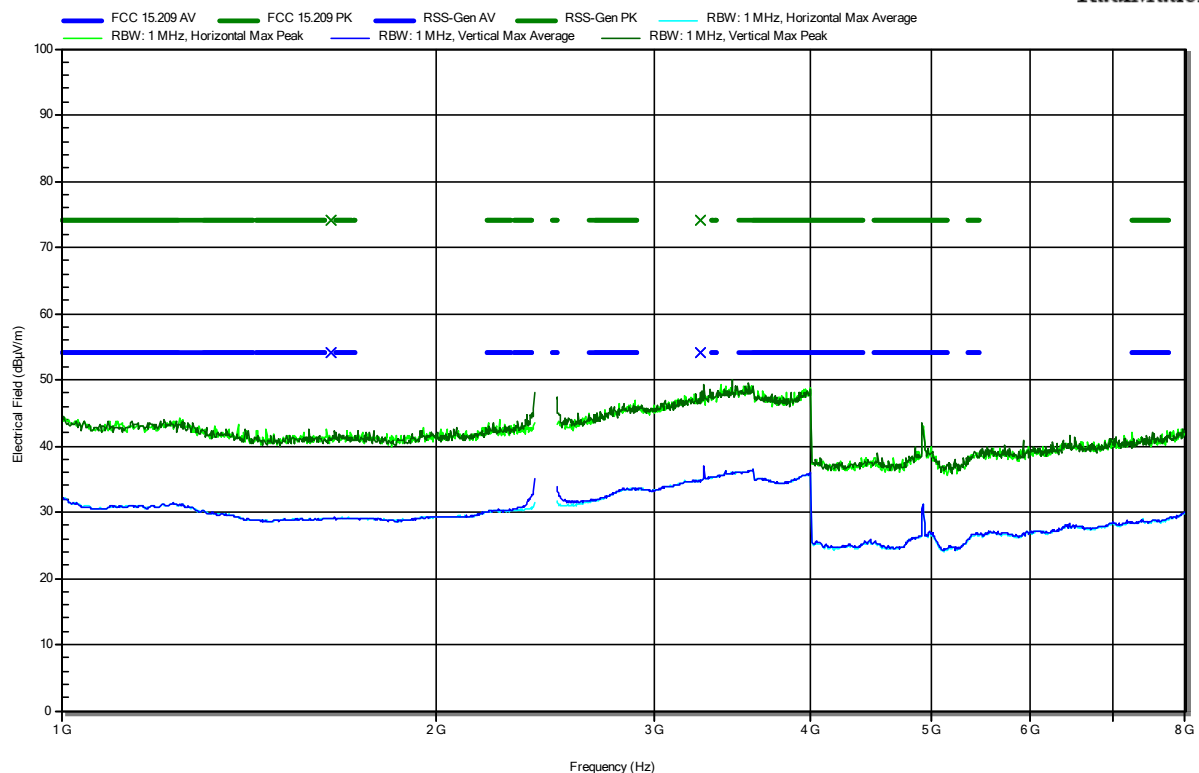
|            |             |               |                    |                |              |
|------------|-------------|---------------|--------------------|----------------|--------------|
| Frequency  | Peak        | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
| 4.8205 GHz | 44.51 dBV/m | 74 dBV/m      | -29.49 dB          | Pass           | Vertical     |
| Frequency  | Average     | Average Limit | Average Difference | Average Status | Polarization |
| 4.8205 GHz | 30.27 dBV/m | 54 dBV/m      | -23.73 dB          | Pass           | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS 1; CH 11\_2462 MHz; OFDM; HT20  
 Test Date: 2022-09-16  
 Note:

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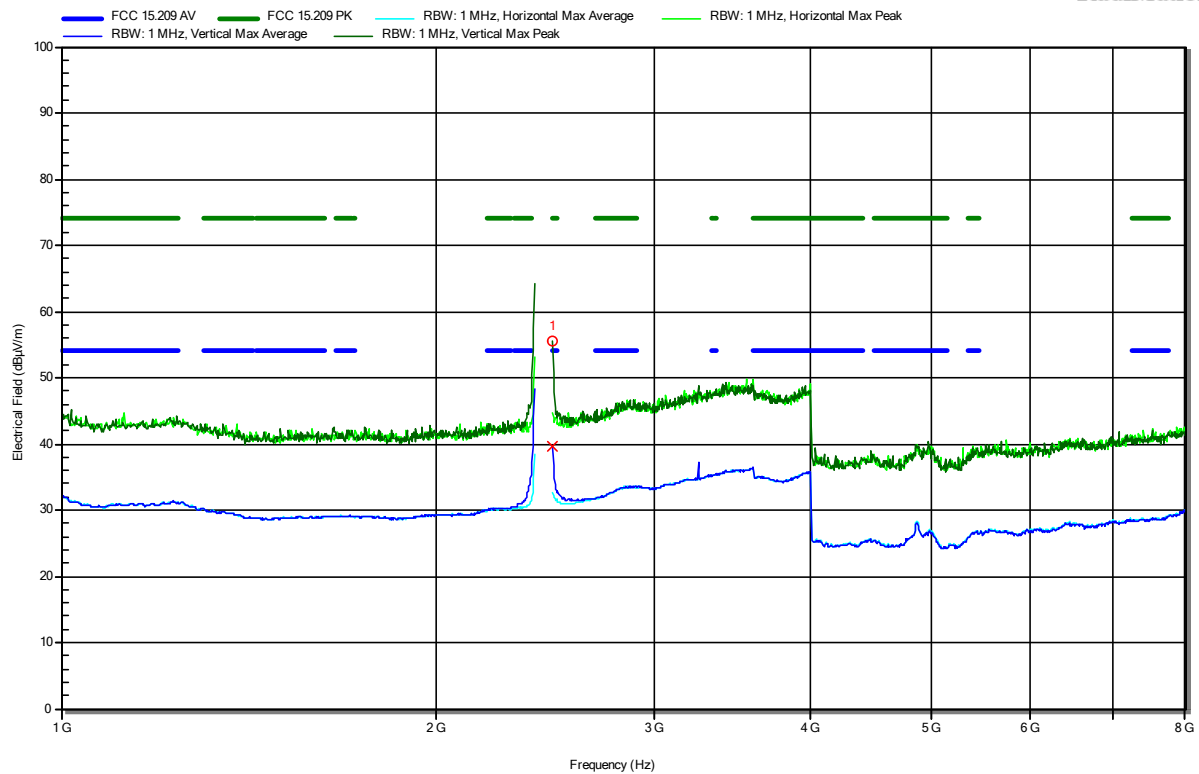


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS 0; CH 6\_2437 MHz; OFDM; HT40  
 Test Date: 2022-09-16  
 Note:

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|                         |                        |                           |                                 |                        |                          |
|-------------------------|------------------------|---------------------------|---------------------------------|------------------------|--------------------------|
| Frequency<br>2.4835 GHz | Peak<br>55.61 dBV/m    | Peak Limit<br>74 dBV/m    | Peak Difference<br>-18.39 dB    | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>2.4835 GHz | Average<br>39.64 dBV/m | Average Limit<br>54 dBV/m | Average Difference<br>-14.36 dB | Average Status<br>Pass | Polarization<br>Vertical |

Test Report No.: G0M-2205-1454-TFC247WF-V02

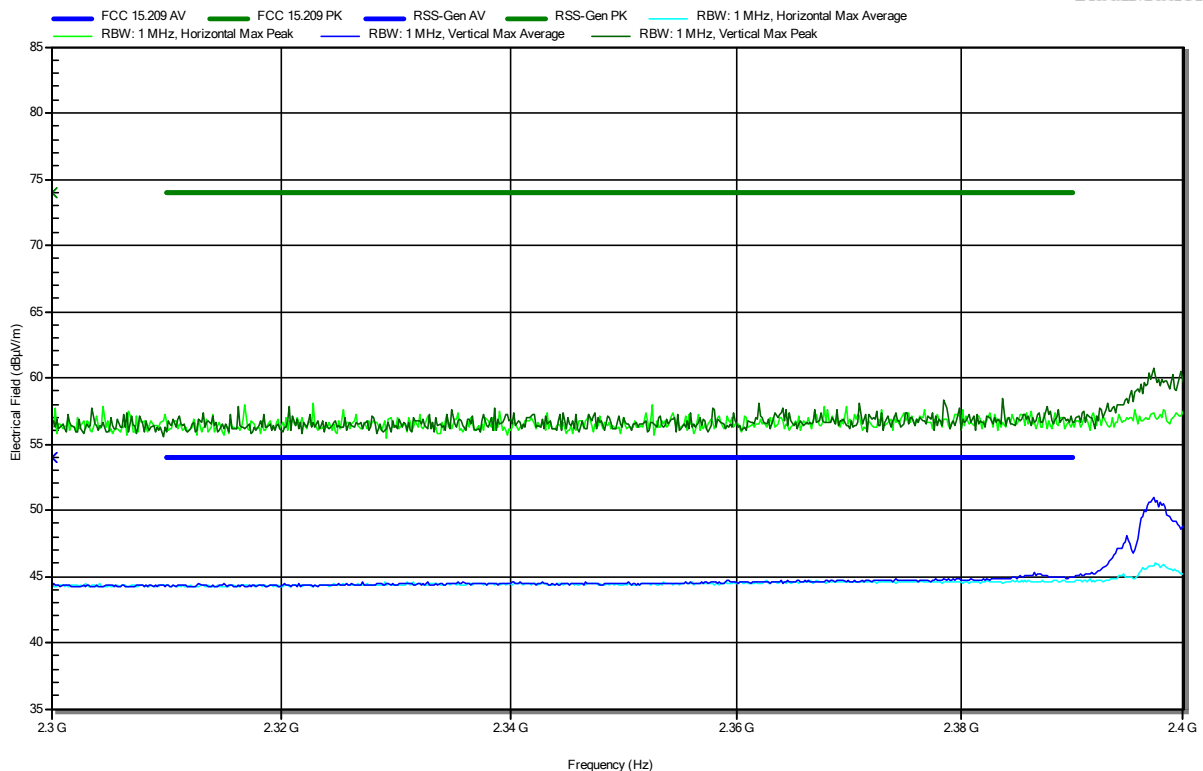
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1 Mbps; CH 1\_2412 MHz; DSSS; BW20  
 Test Date: 2022-09-16  
 Note: lower bandedge

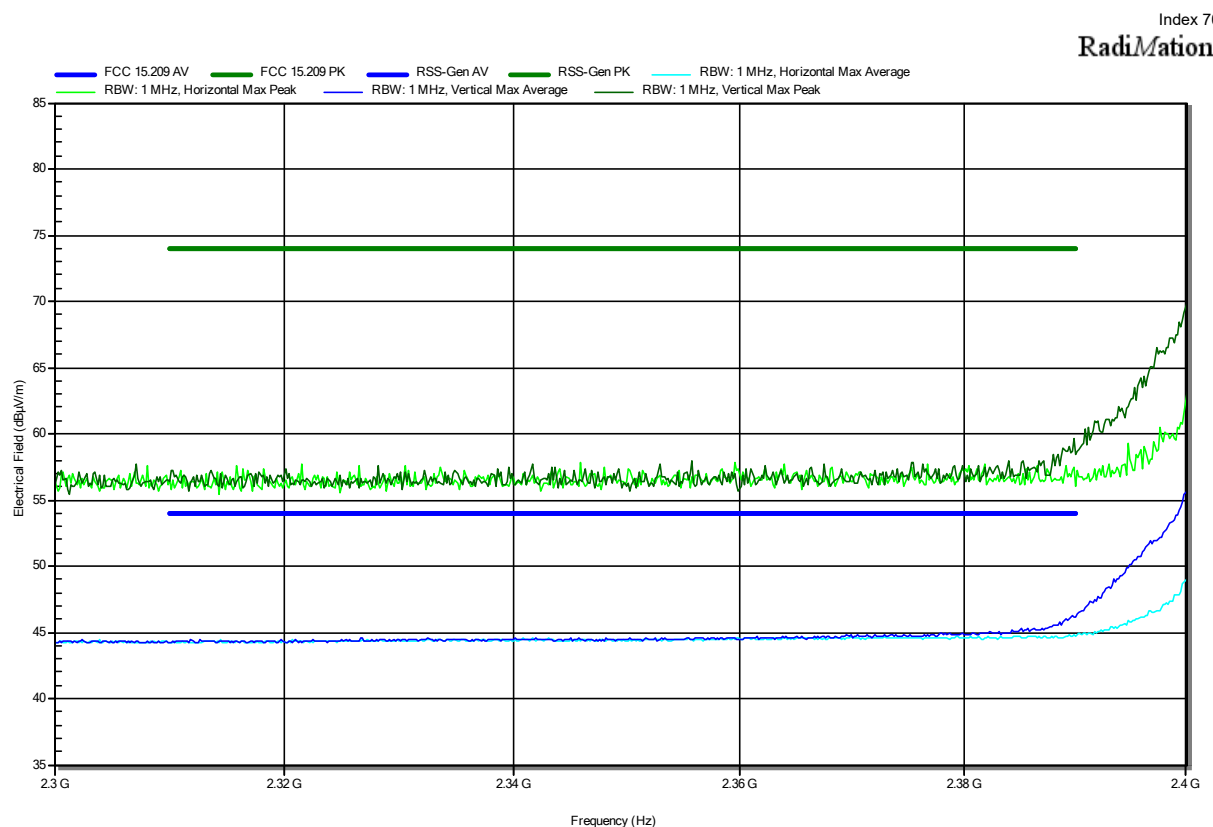
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## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-09-16  
 Note: lower bandedge

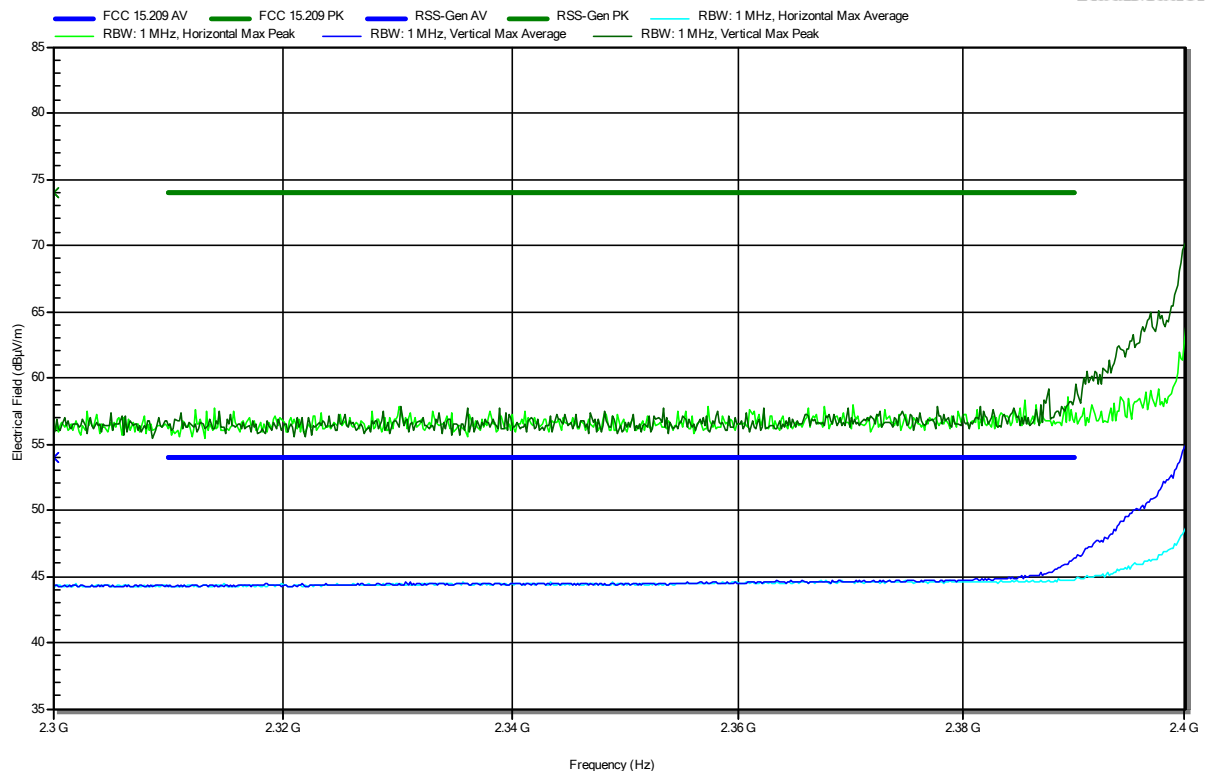


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS 1; CH 1\_2412 MHz; OFDM; HT20  
 Test Date: 2022-09-16  
 Note: lower bandedge

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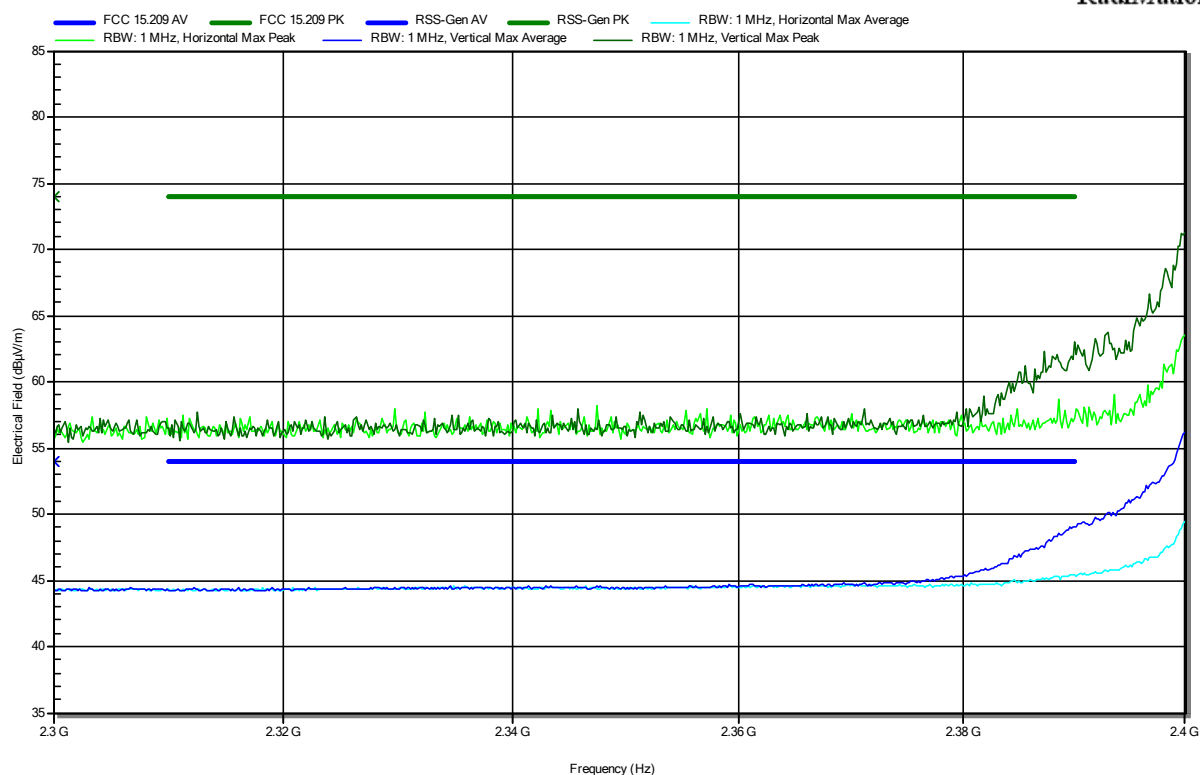


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS 0; CH 3\_2422 MHz; OFDM; HT40  
 Test Date: 2022-09-16  
 Note: lower bandedge

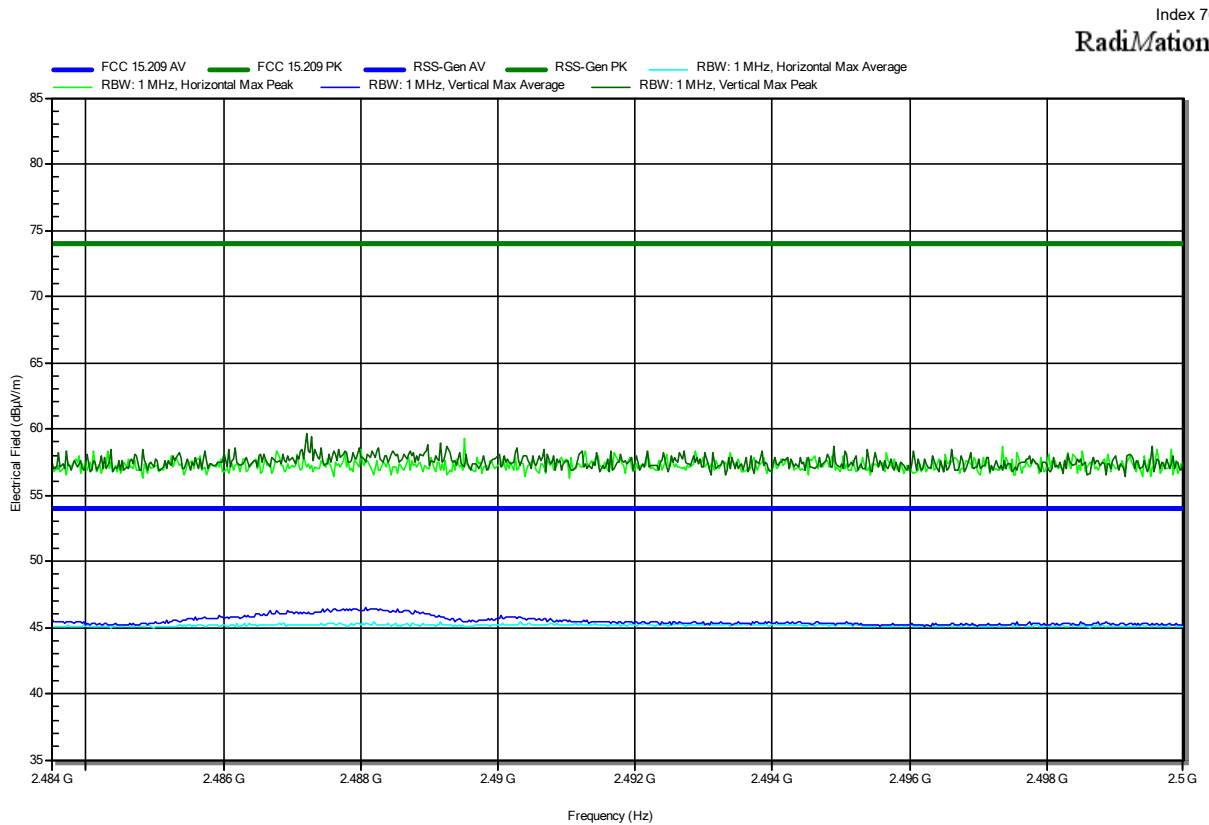
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RadiMation



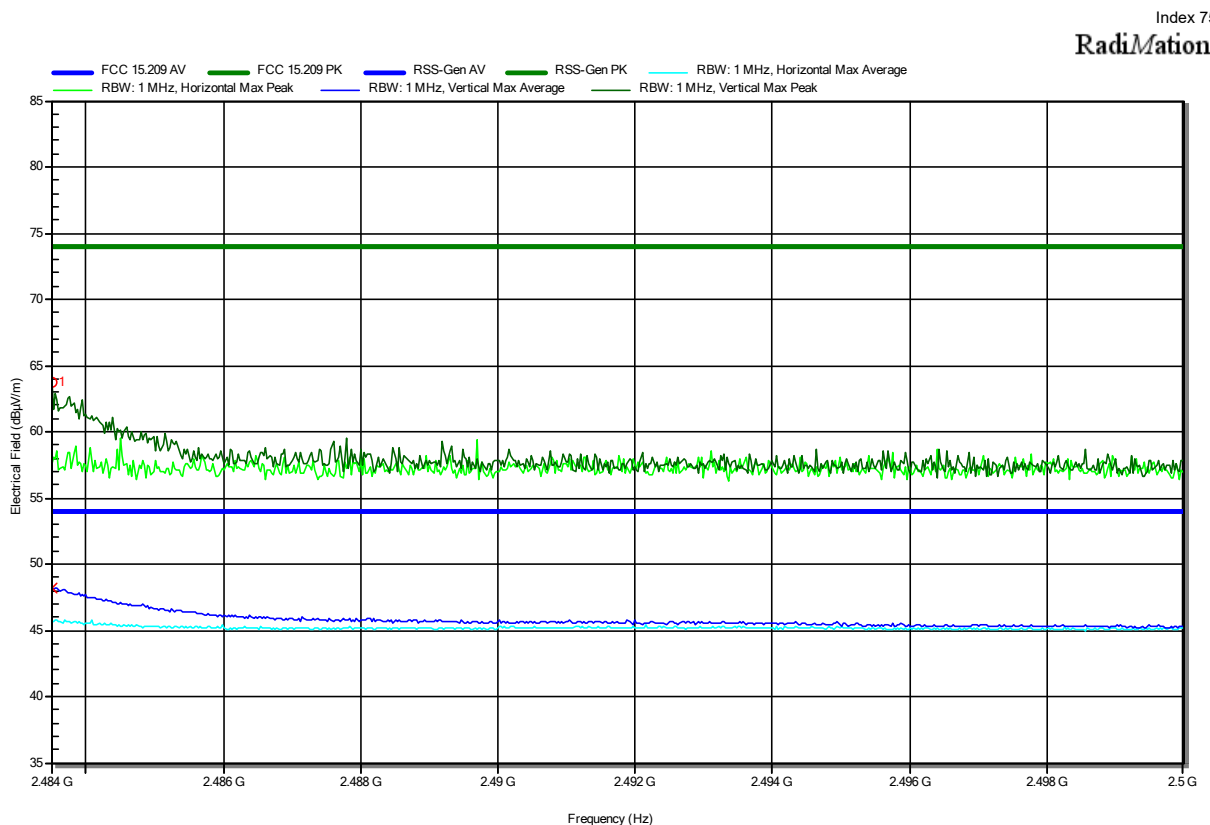
## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1 Mbps; CH 11\_2462 MHz; DSSS; BW20  
 Test Date: 2022-09-16  
 Note: upper bandedge



## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

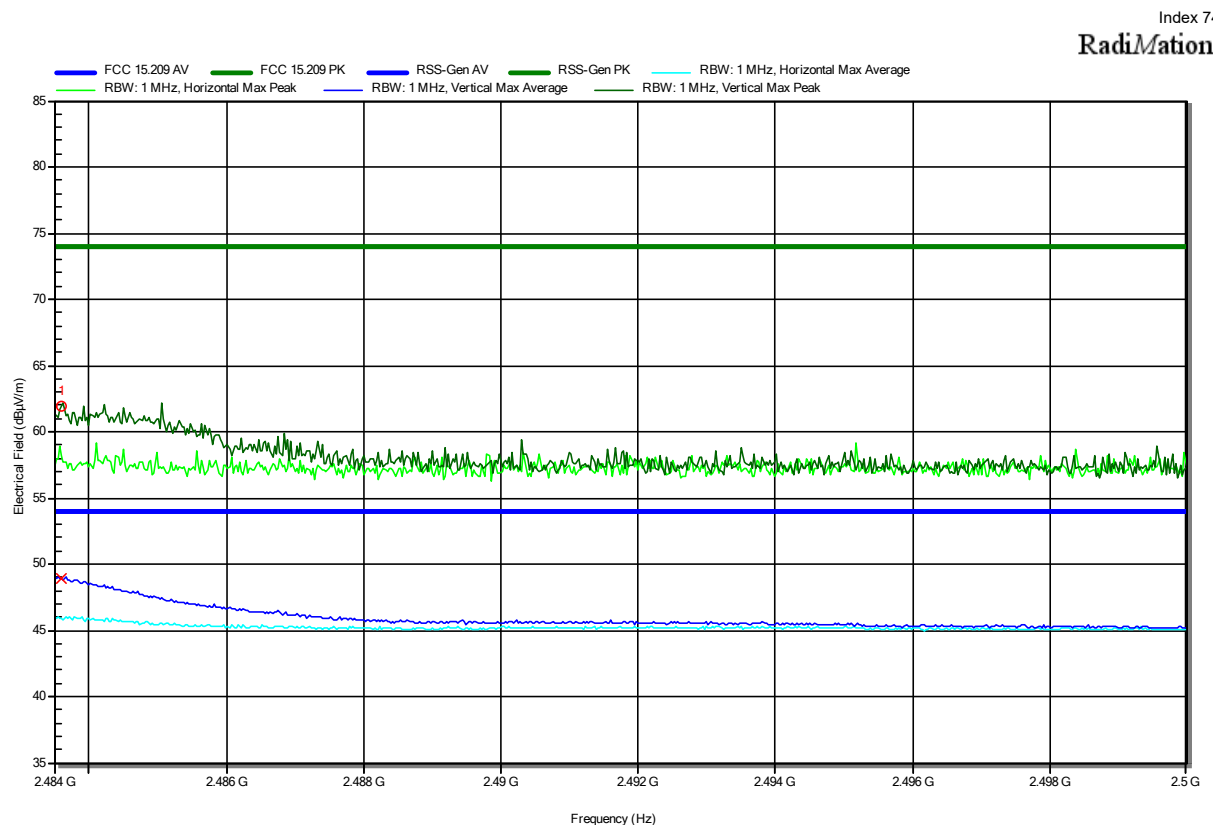
Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-09-16  
 Note: upper bandedge



|                         |                         |                            |                                |                        |                          |
|-------------------------|-------------------------|----------------------------|--------------------------------|------------------------|--------------------------|
| Frequency<br>2.4835 GHz | Peak<br>63.76 dBµV/m    | Peak Limit<br>74 dBµV/m    | Peak Difference<br>-10.24 dB   | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>2.4835 GHz | Average<br>48.17 dBµV/m | Average Limit<br>54 dBµV/m | Average Difference<br>-5.83 dB | Average Status<br>Pass | Polarization<br>Vertical |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

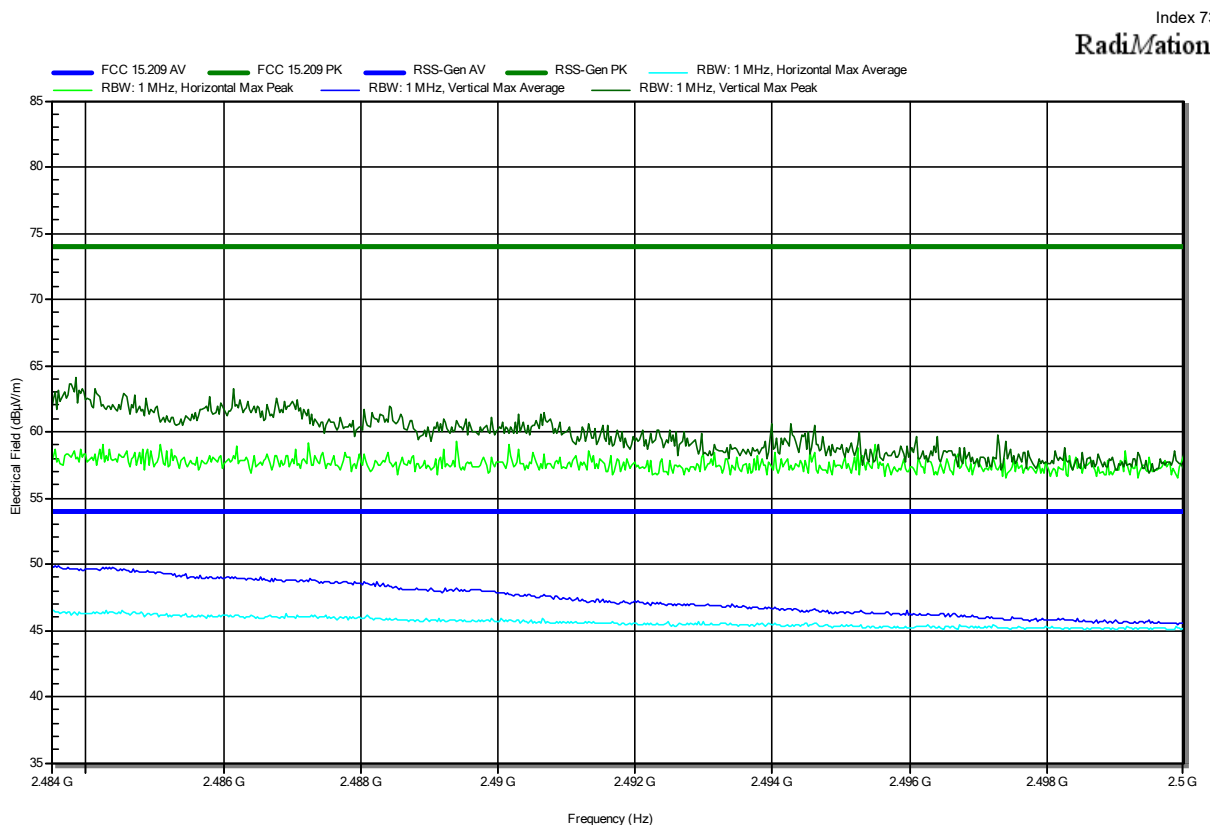
Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS 1; CH 11\_2462 MHz; OFDM; HT20  
 Test Date: 2022-09-16  
 Note: upper bandedge



|                         |                        |                           |                                |                        |                          |
|-------------------------|------------------------|---------------------------|--------------------------------|------------------------|--------------------------|
| Frequency<br>2.4836 GHz | Peak<br>61.92 dBV/m    | Peak Limit<br>74 dBV/m    | Peak Difference<br>-12.08 dB   | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>2.4836 GHz | Average<br>48.93 dBV/m | Average Limit<br>54 dBV/m | Average Difference<br>-5.07 dB | Average Status<br>Pass | Polarization<br>Vertical |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS 0; CH 9\_2452 MHz; OFDM; HT40  
 Test Date: 2022-09-16  
 Note: upper bandedge

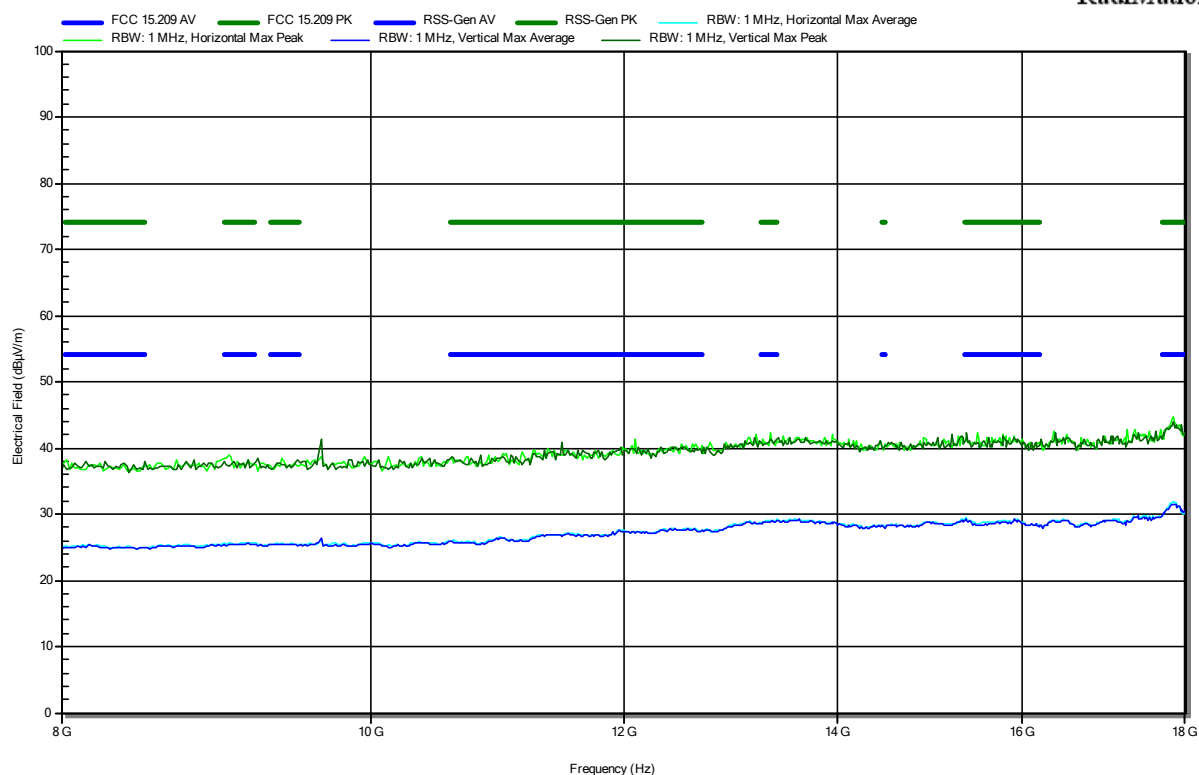


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
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 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1 Mbps; CH 1\_2412 MHz; DSSS; BW20  
 Test Date: 2022-09-16  
 Note:

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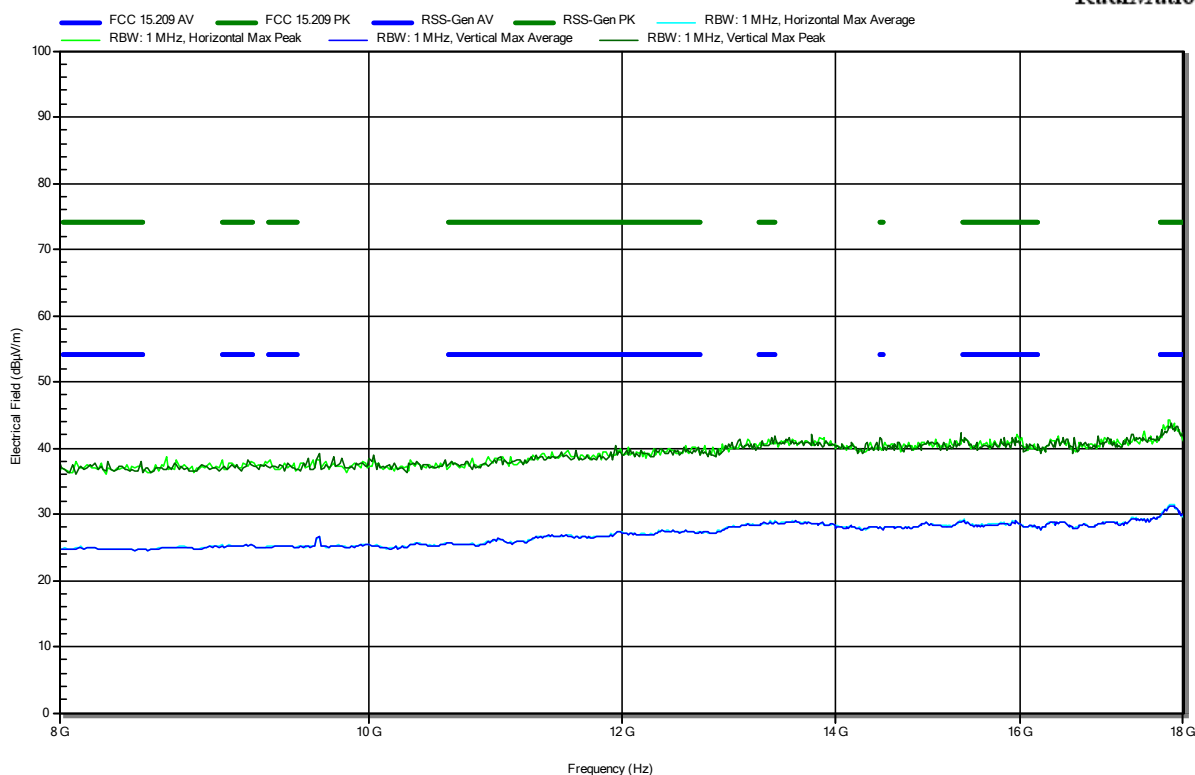


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
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 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-09-16  
 Note:

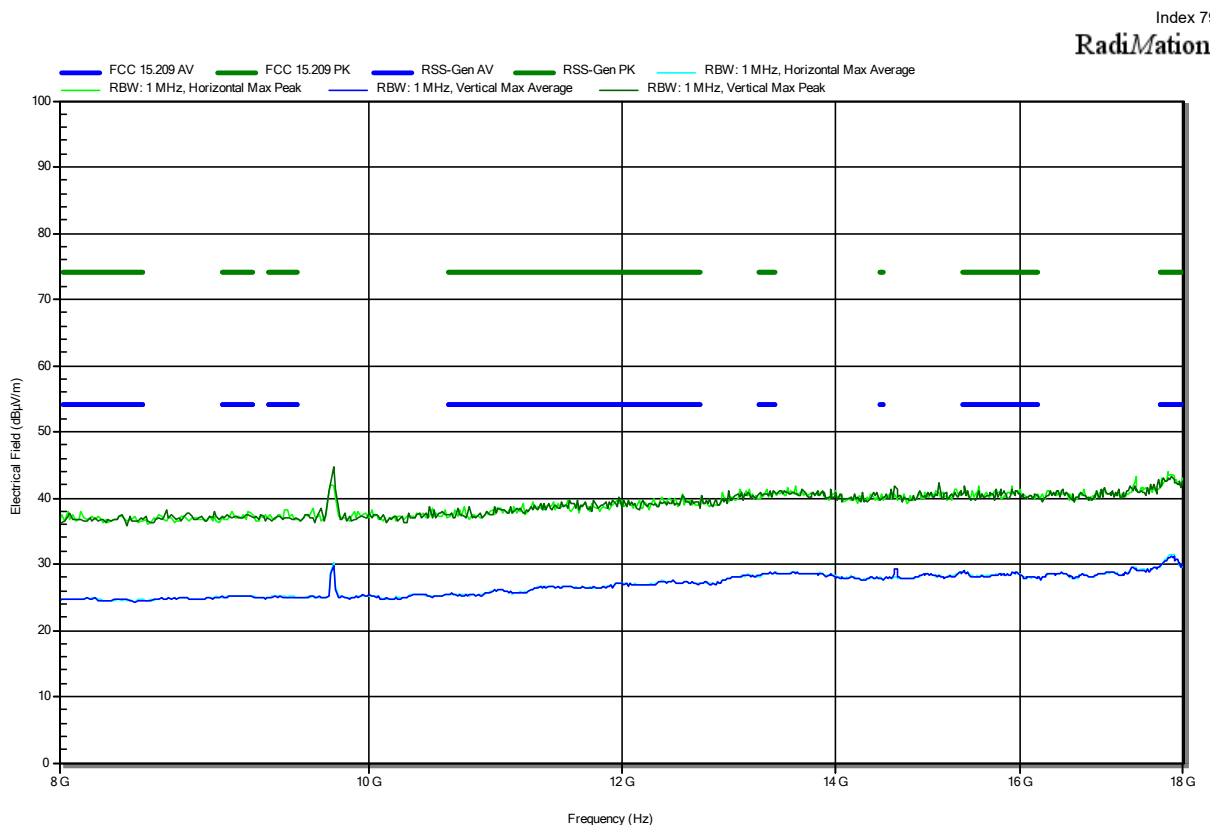
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RadiMation



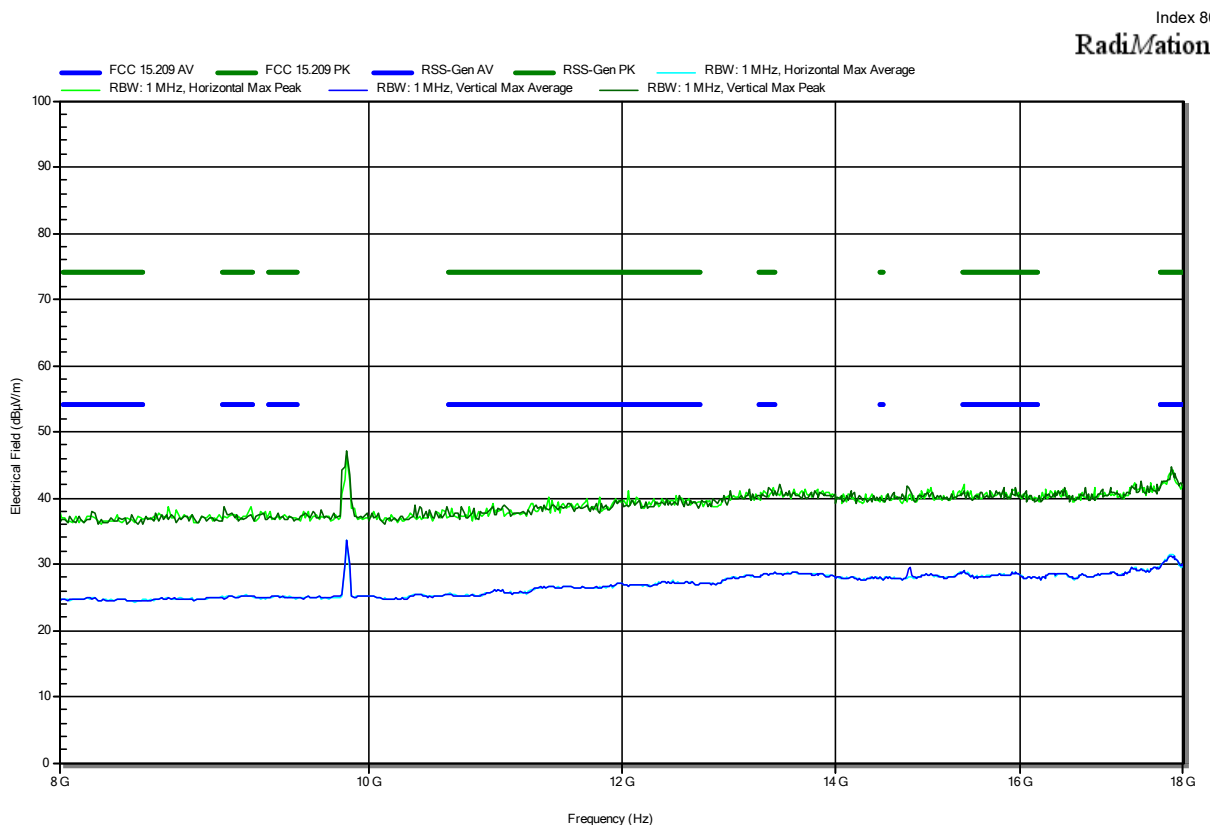
## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
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 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 6\_2437 MHz; OFDM; BW20  
 Test Date: 2022-09-16  
 Note:



## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Pudell  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-09-16  
 Note:

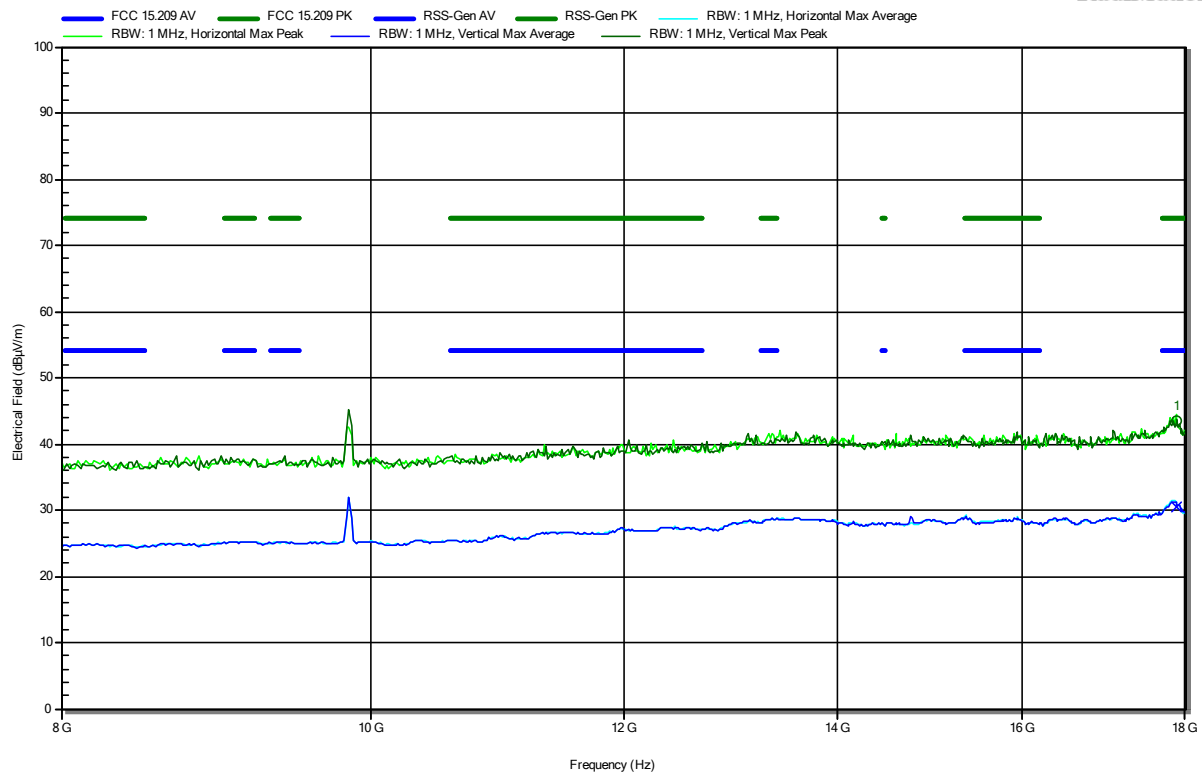


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS 1; CH 11\_2462 MHz; OFDM; HT20  
 Test Date: 2022-09-16  
 Note:

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RadiMation



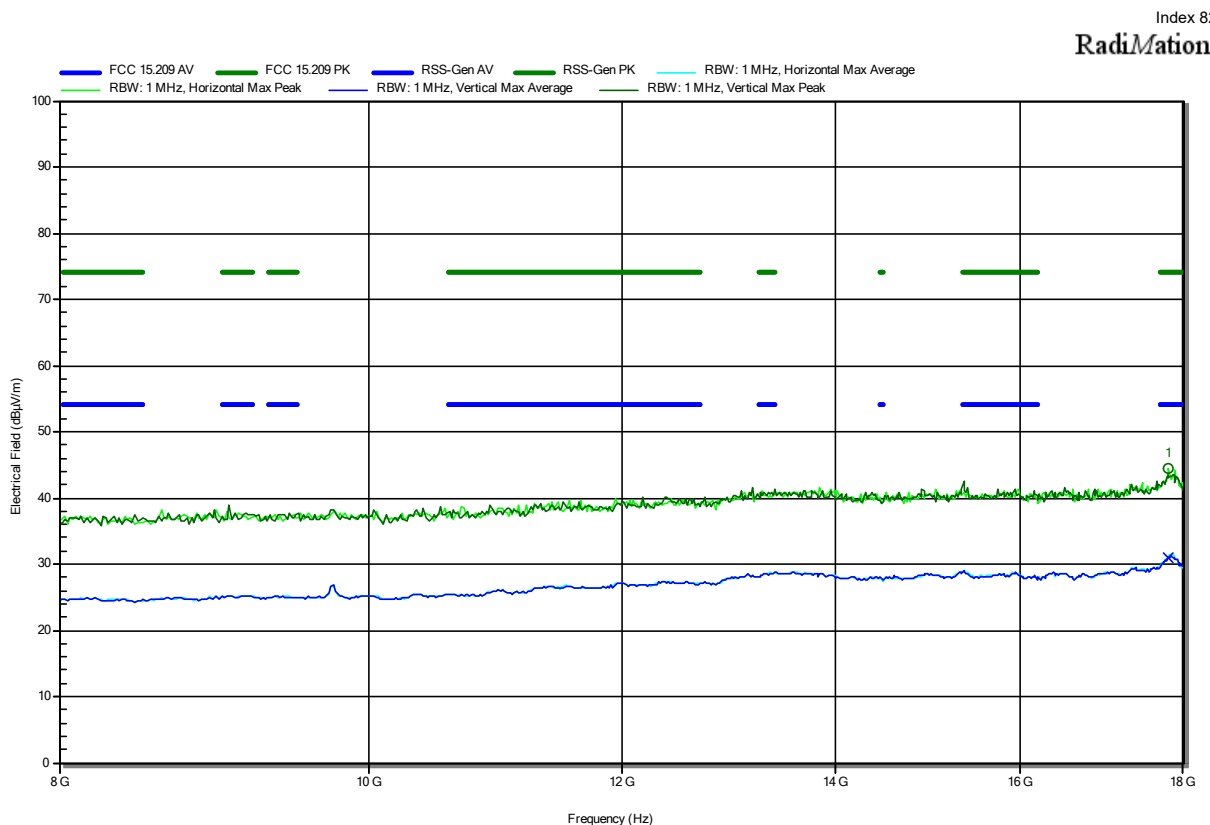
|            |              |               |                    |                |              |
|------------|--------------|---------------|--------------------|----------------|--------------|
| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
| 17.888 GHz | 43.59 dBμV/m | 74 dBμV/m     | -30.41 dB          | Pass           | Vertical     |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 17.888 GHz | 30.38 dBμV/m | 54 dBμV/m     | -23.62 dB          | Pass           | Vertical     |

Test Report No.: G0M-2205-1454-TFC247WF-V02

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

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS 0; CH 6\_2437 MHz; OFDM; HT40  
 Test Date: 2022-09-16  
 Note:



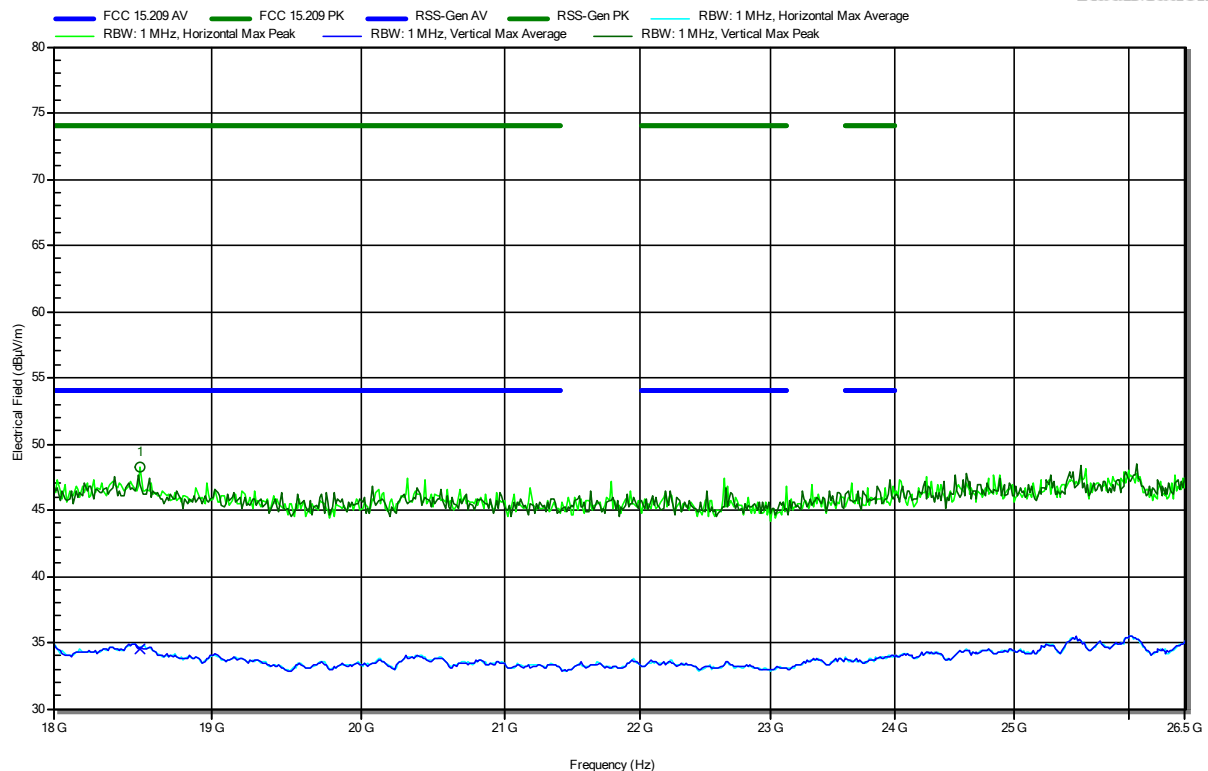
|                         |                      |                            |                              |                        |                            |
|-------------------------|----------------------|----------------------------|------------------------------|------------------------|----------------------------|
| Frequency<br>17.808 GHz | Peak<br>44.41 dBµV/m | Peak Limit<br>74 dBµV/m    | Peak Difference<br>-29.59 dB | Peak Status<br>Pass    | Polarization<br>Horizontal |
| Frequency<br>17.808 GHz | Average<br>31 dBµV/m | Average Limit<br>54 dBµV/m | Average Difference<br>-23 dB | Average Status<br>Pass | Polarization<br>Horizontal |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1 Mbps; CH 1\_2412 MHz; DSSS; BW20  
 Test Date: 2022-09-16  
 Note:

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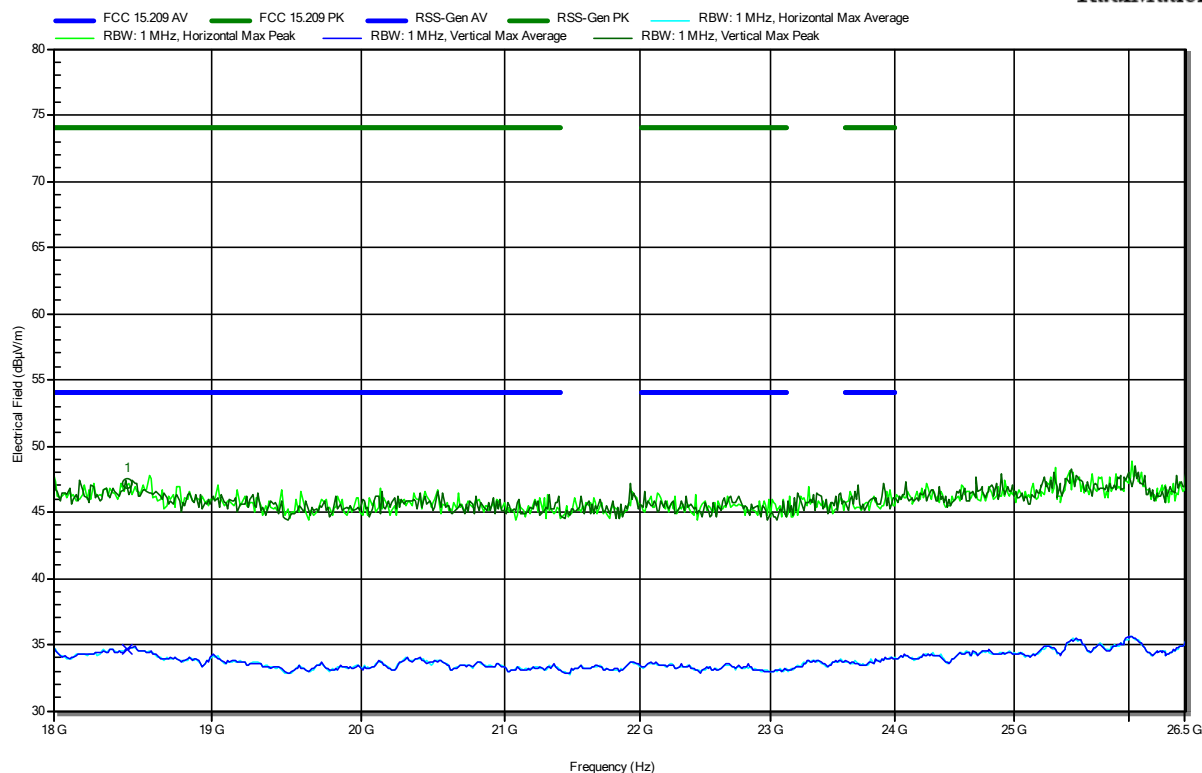
| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 18.545 GHz | 48.21 dBµV/m | 74 dBµV/m     | -25.79 dB          | Pass           | Horizontal   |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 18.545 GHz | 34.51 dBµV/m | 54 dBµV/m     | -19.49 dB          | Pass           | Horizontal   |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-09-16  
 Note:

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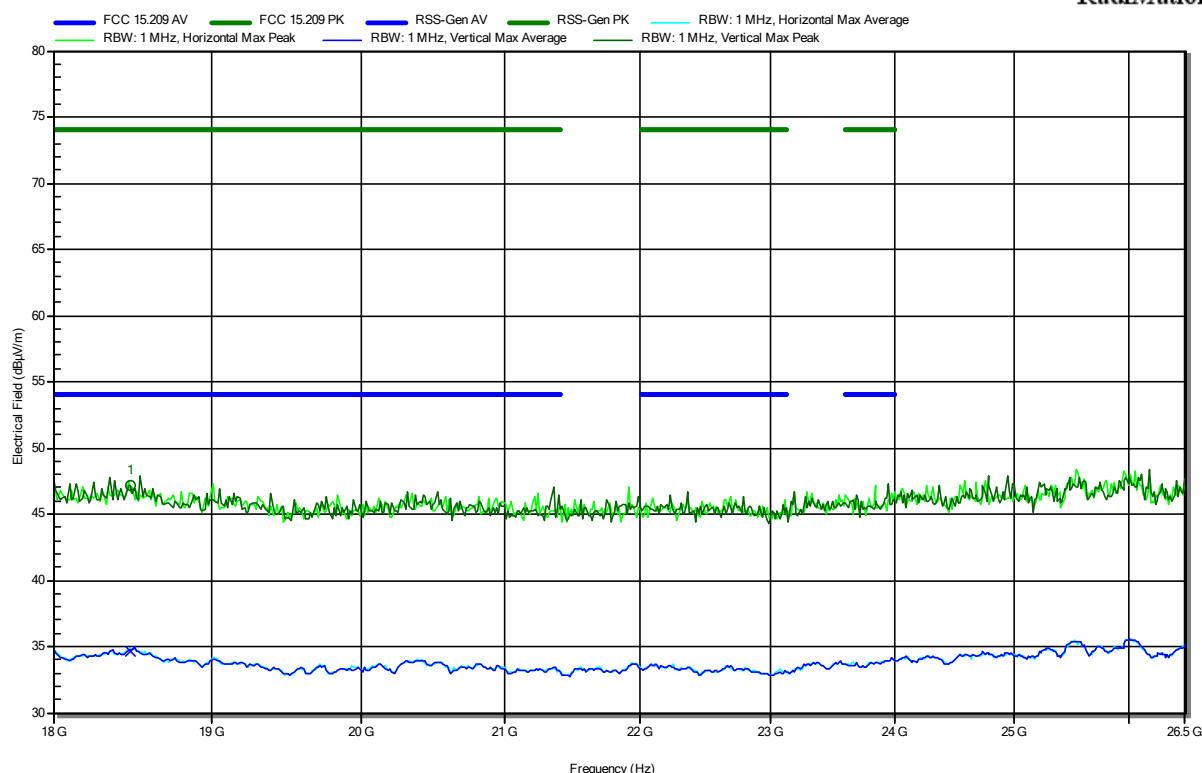
| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 18.463 GHz | 47.17 dBμV/m | 74 dBμV/m     | -26.83 dB          | Pass           | Horizontal   |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 18.463 GHz | 34.61 dBμV/m | 54 dBμV/m     | -19.39 dB          | Pass           | Horizontal   |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 6\_2437 MHz; OFDM; BW20  
 Test Date: 2022-09-16  
 Note:

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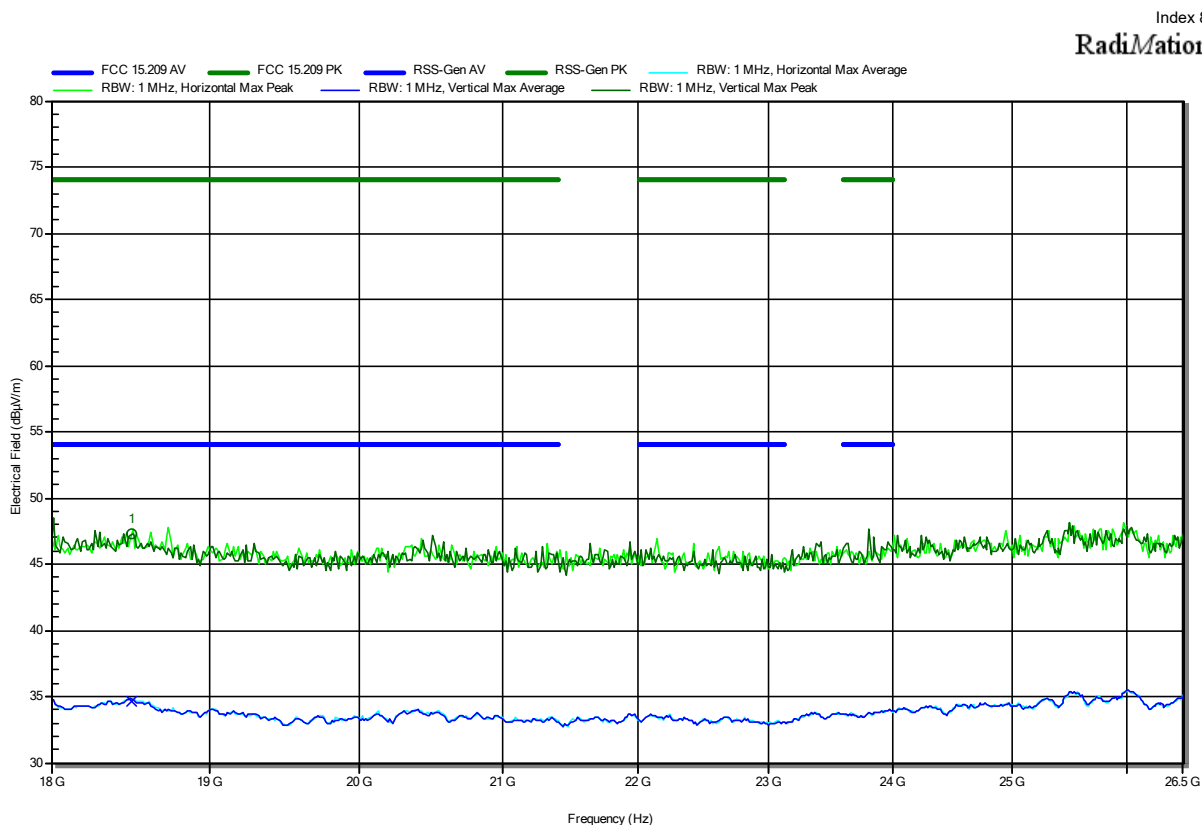
RadiMation



| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 18.477 GHz | 47.18 dBμV/m | 74 dBμV/m     | -26.82 dB          | Pass           | Vertical     |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 18.477 GHz | 34.58 dBμV/m | 54 dBμV/m     | -19.42 dB          | Pass           | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-09-16  
 Note:



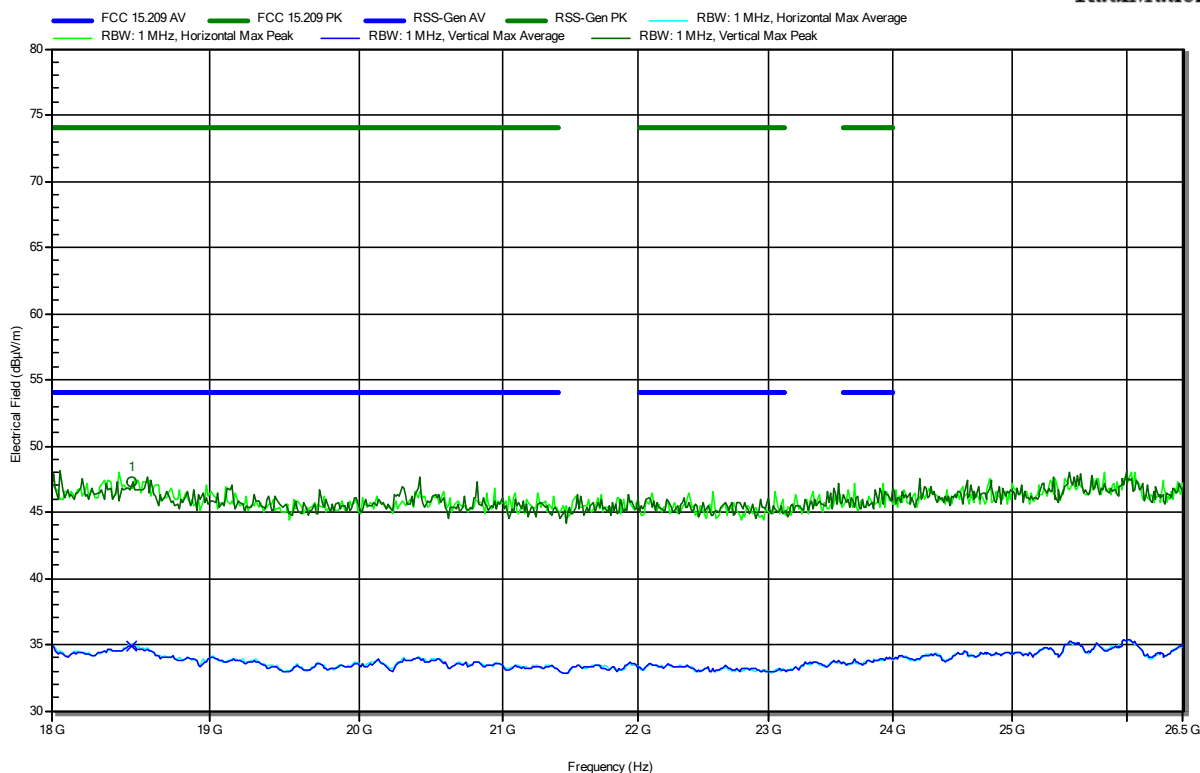
| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 18.504 GHz | 47.3 dBµV/m  | 74 dBµV/m     | -26.7 dB           | Pass           | Vertical     |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 18.504 GHz | 34.69 dBµV/m | 54 dBµV/m     | -19.31 dB          | Pass           | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS 1; CH 11\_2462 MHz; OFDM; HT20  
 Test Date: 2022-09-16  
 Note:

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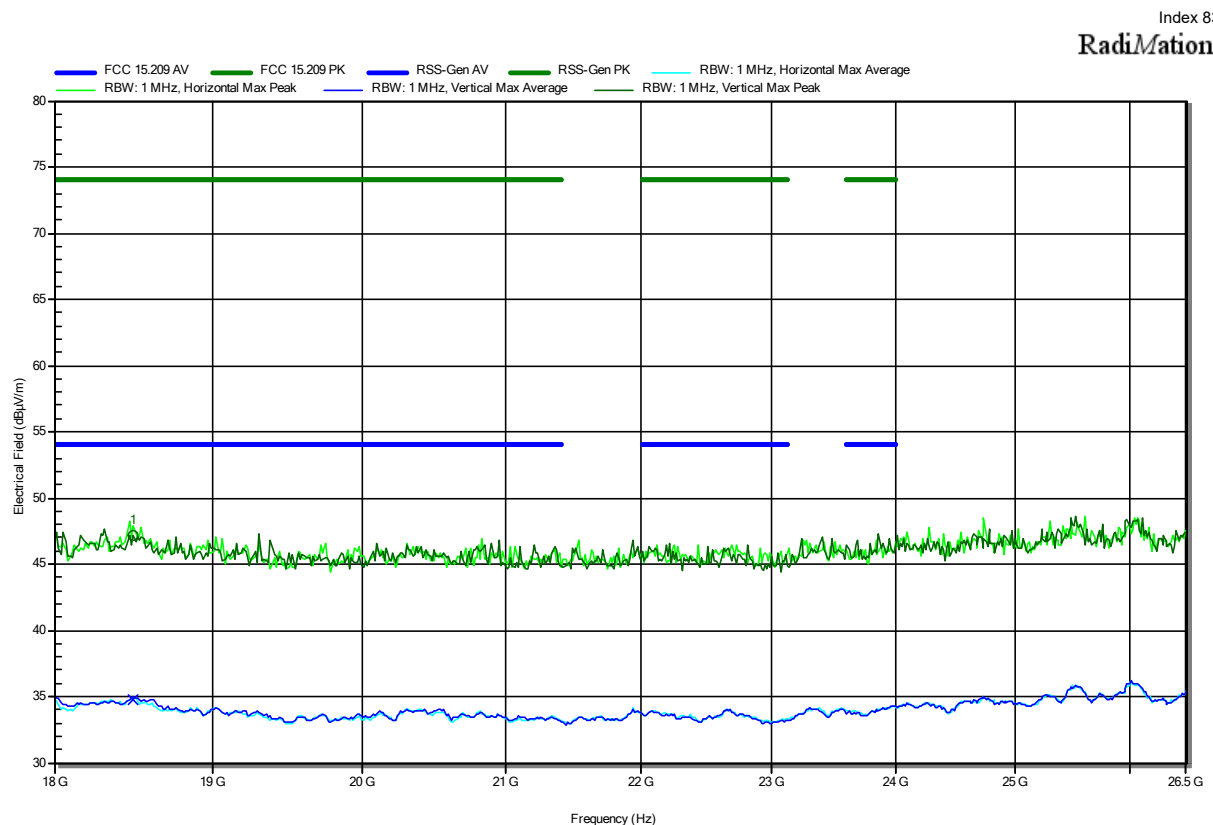
RadiMation



| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 18.504 GHz | 47.33 dBμV/m | 74 dBμV/m     | -26.67 dB          | Pass           | Vertical     |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 18.504 GHz | 34.82 dBμV/m | 54 dBμV/m     | -19.18 dB          | Pass           | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247 Issue 2

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.3 VDC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS 0; CH 6\_2437 MHz; OFDM; HT40  
 Test Date: 2022-09-16  
 Note:

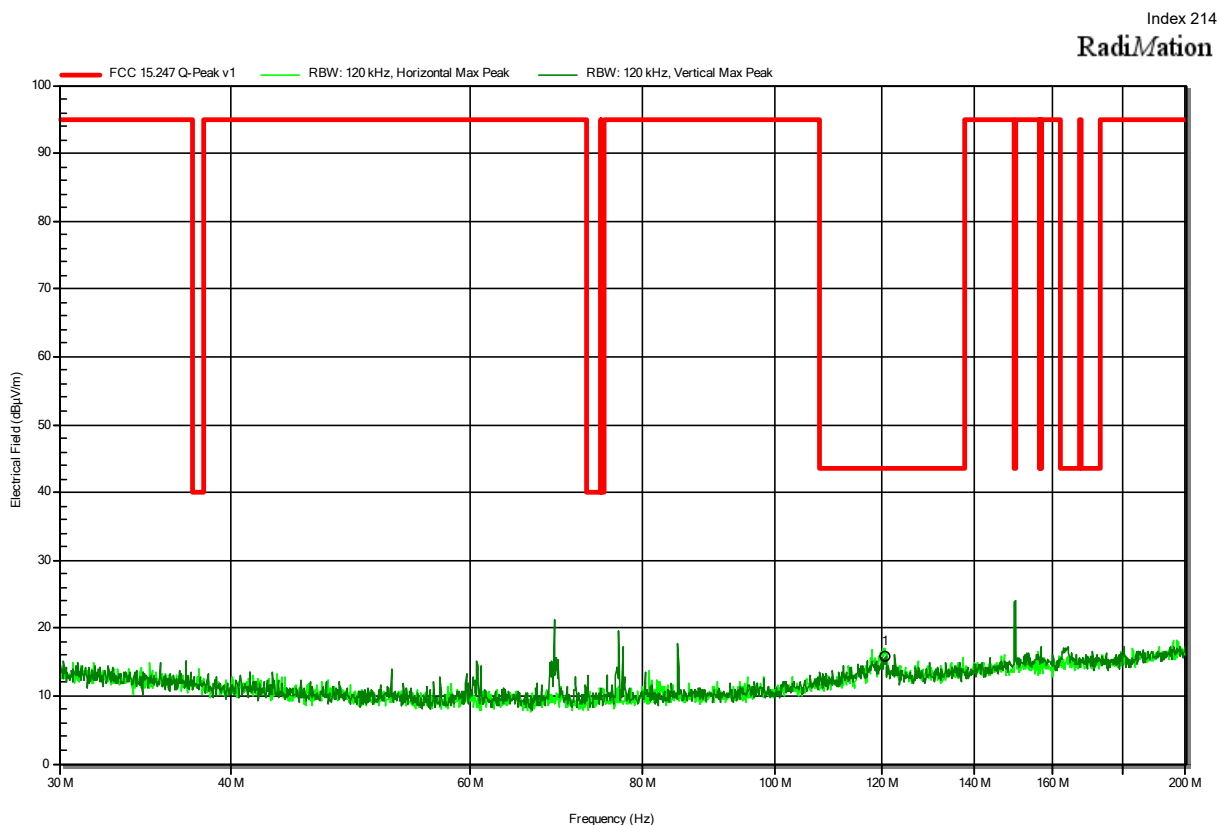


| Frequency | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
|-----------|--------------|---------------|--------------------|----------------|--------------|
| 18.49 GHz | 47.2 dBμV/m  | 74 dBμV/m     | -26.8 dB           | Pass           | Vertical     |
| Frequency | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 18.49 GHz | 34.78 dBμV/m | 54 dBμV/m     | -19.22 dB          | Pass           | Vertical     |

## ANNEX C Transmitter spurious emissions (Tested variant 2)

### Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-11-11  
 Note:



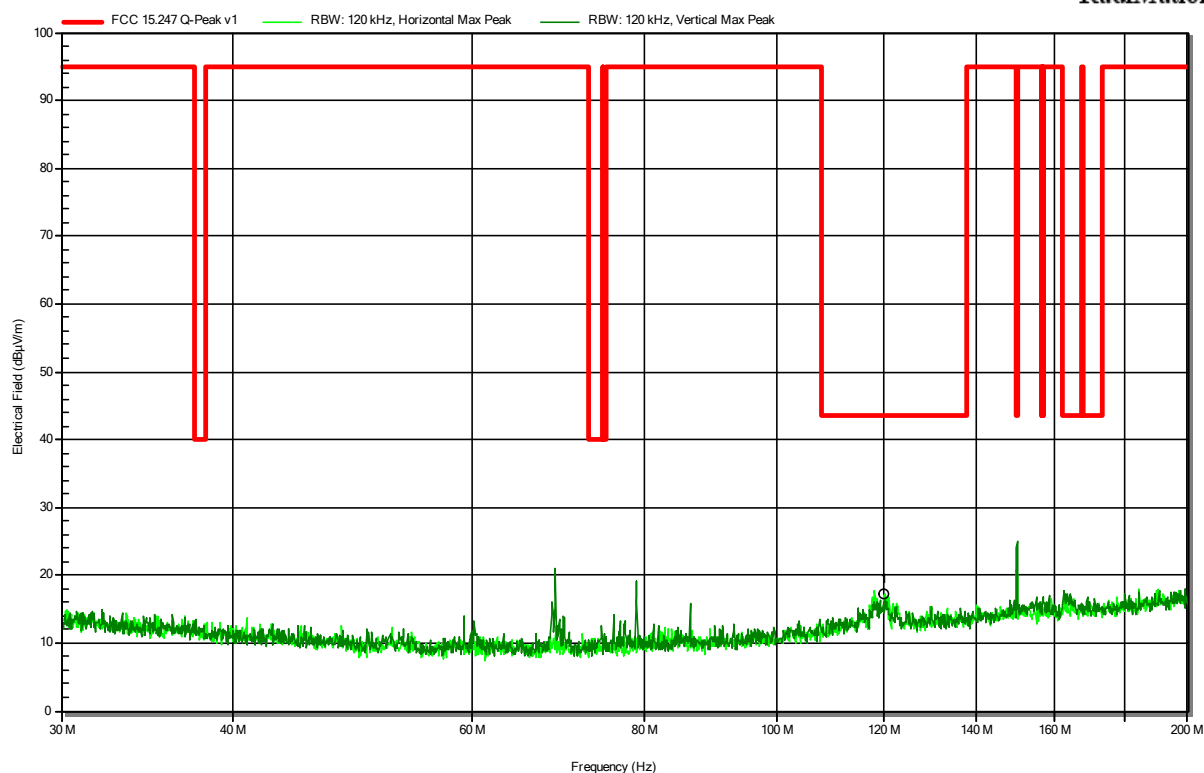
| Frequency   | Peak        | Peak Limit  | Peak Difference | Peak Status | Polarization |
|-------------|-------------|-------------|-----------------|-------------|--------------|
| 120.661 MHz | 15.8 dBµV/m | 43.5 dBµV/m | -27.67 dB       | Pass        | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 6\_2437 MHz; OFDM; BW20  
 Test Date: 2022-11-11  
 Note:

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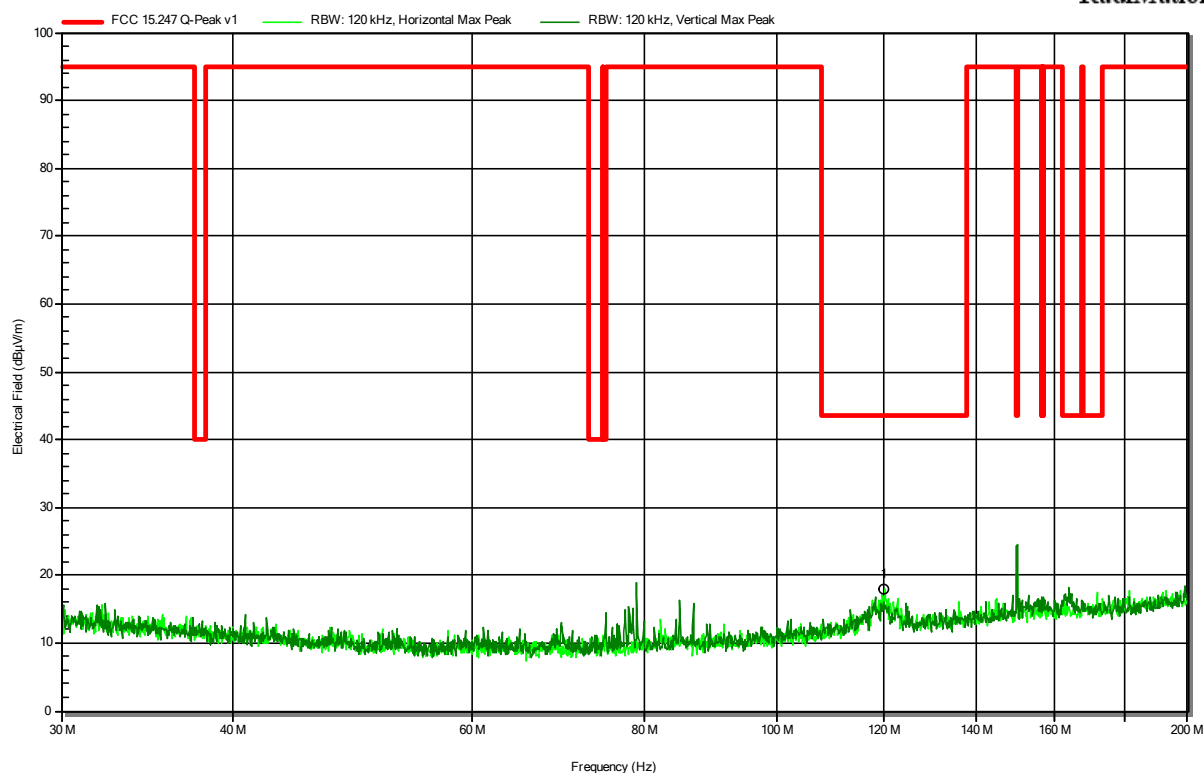
| Frequency    | Peak        | Peak Limit  | Peak Difference | Peak Status | Polarization |
|--------------|-------------|-------------|-----------------|-------------|--------------|
| 119.9682 MHz | 17.2 dBμV/m | 43.5 dBμV/m | -26.28 dB       | Pass        | Horizontal   |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-11-11  
 Note:

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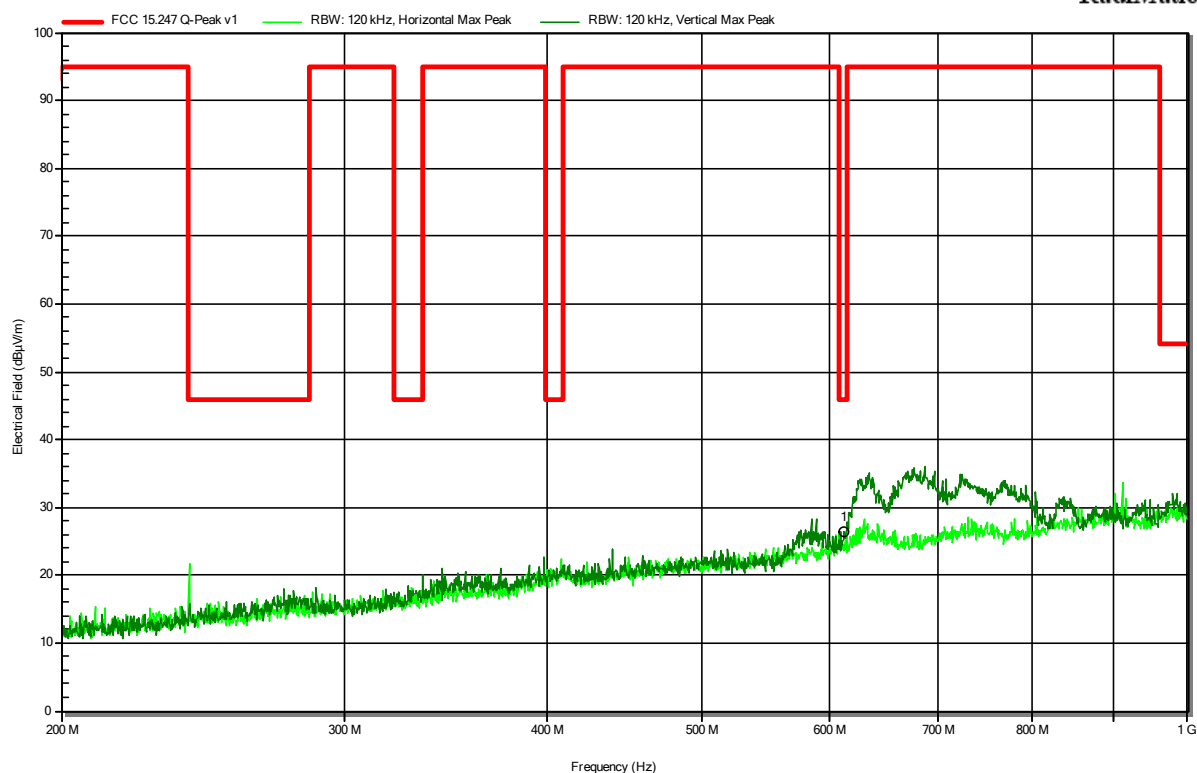
| Frequency    | Peak      | Peak Limit  | Peak Difference | Peak Status | Polarization |
|--------------|-----------|-------------|-----------------|-------------|--------------|
| 119.9852 MHz | 18 dBµV/m | 43.5 dBµV/m | -25.48 dB       | Pass        | Horizontal   |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-11-11  
 Note:

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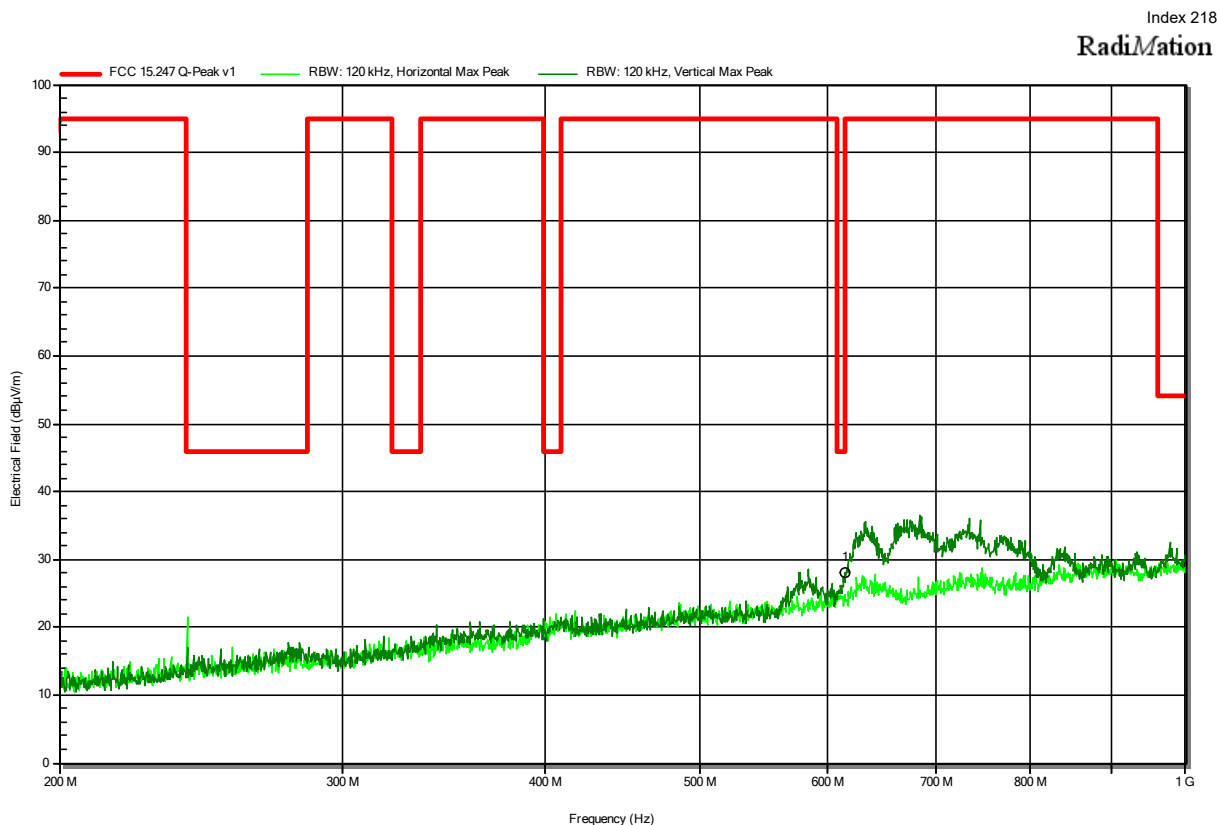
RadiMation



| Frequency  | Peak        | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|-------------|------------|-----------------|-------------|--------------|
| 611.58 MHz | 26.4 dBµV/m | 46 dBµV/m  | -19.58 dB       | Pass        | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 6\_2437 MHz; OFDM; BW20  
 Test Date: 2022-11-11  
 Note:



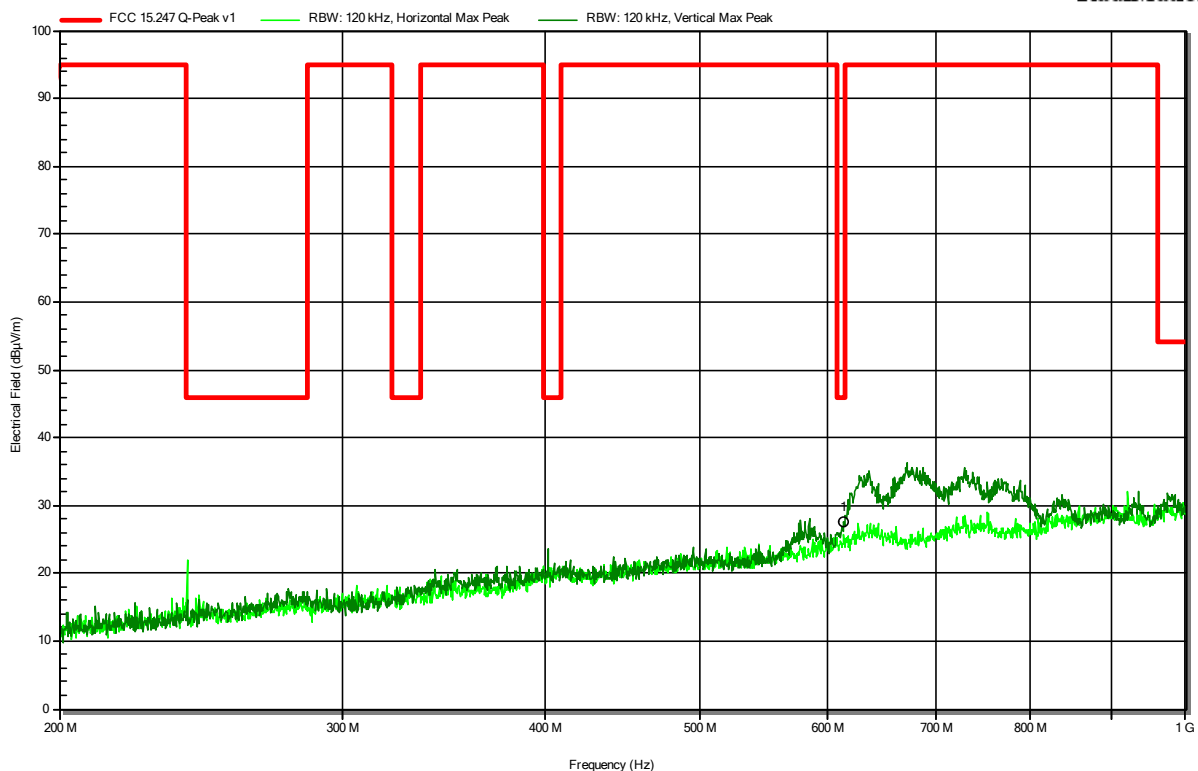
| Frequency  | Peak      | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|-----------|------------|-----------------|-------------|--------------|
| 614.16 MHz | 28 dBµV/m | 95 dBµV/m  | -67.02 dB       | Pass        | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-11-11  
 Note:

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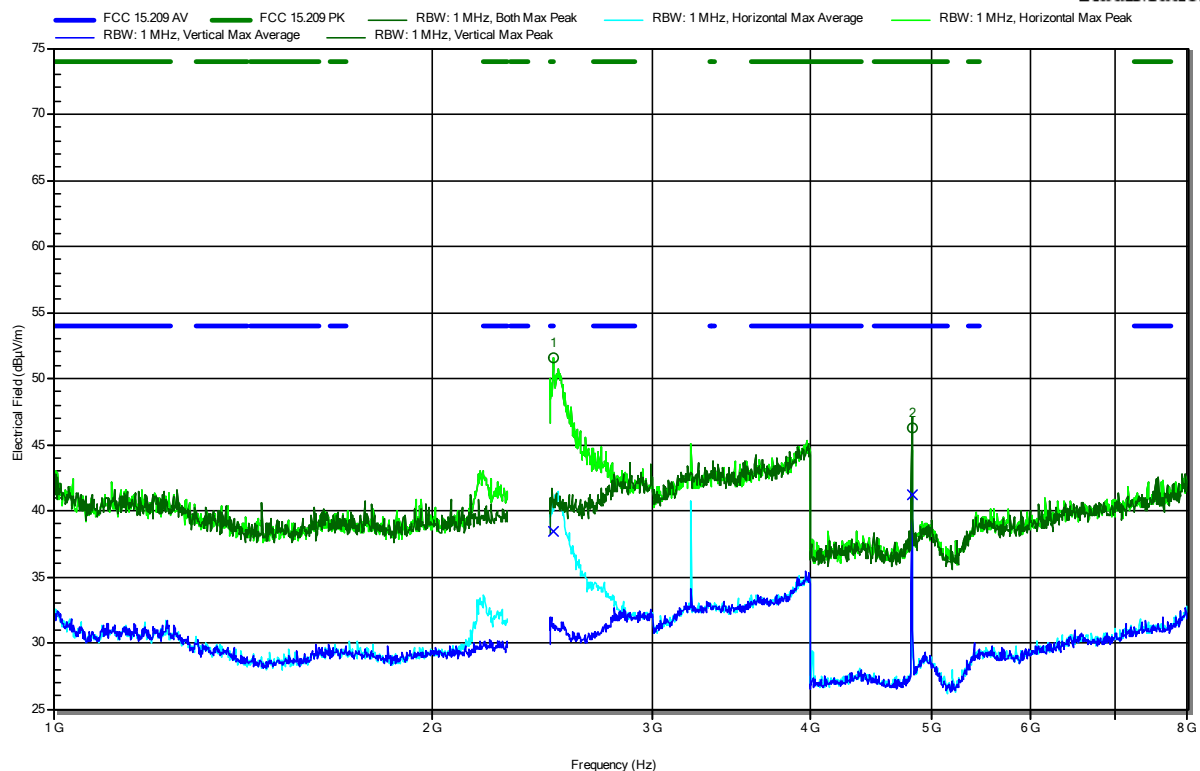
| Frequency | Peak        | Peak Limit | Peak Difference | Peak Status | Polarization |
|-----------|-------------|------------|-----------------|-------------|--------------|
| 613.6 MHz | 27.6 dBµV/m | 46 dBµV/m  | -18.38 dB       | Pass        | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1 Mbps; CH 1\_2412 MHz; DSSS; BW20  
 Test Date: 2022-10-20  
 Note:

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| Frequency  | Peak         | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|--------------|------------|-----------------|-------------|--------------|
| 2.4996 GHz | 51.52 dBµV/m | 74 dBµV/m  | -22.48 dB       | Pass        | Horizontal   |
| 4.824 GHz  | 46.28 dBµV/m | 74 dBµV/m  | -27.72 dB       | Pass        | Vertical     |

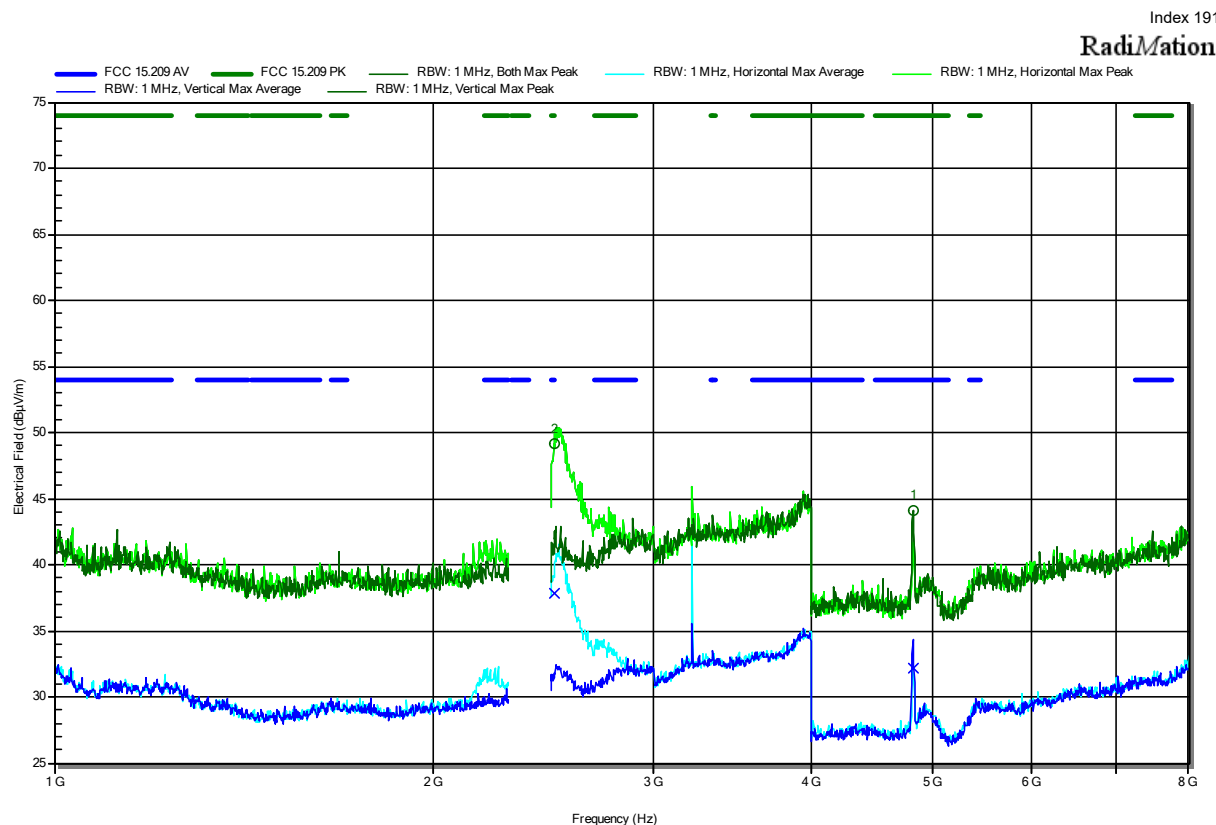
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 2.4996 GHz | 38.48 dBµV/m | 54 dBµV/m     | -15.52 dB          | Pass           | Horizontal   |
| 4.824 GHz  | 41.25 dBµV/m | 54 dBµV/m     | -12.75 dB          | Pass           | Vertical     |

Test Report No.: G0M-2205-1454-TFC247WF-V02

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

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-10-19  
 Note:



| Frequency  | Peak         | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|--------------|------------|-----------------|-------------|--------------|
| 2.4983 GHz | 49.13 dBµV/m | 74 dBµV/m  | -24.87 dB       | Pass        | Horizontal   |
| 4.8277 GHz | 44.1 dBµV/m  | 74 dBµV/m  | -29.9 dB        | Pass        | Vertical     |

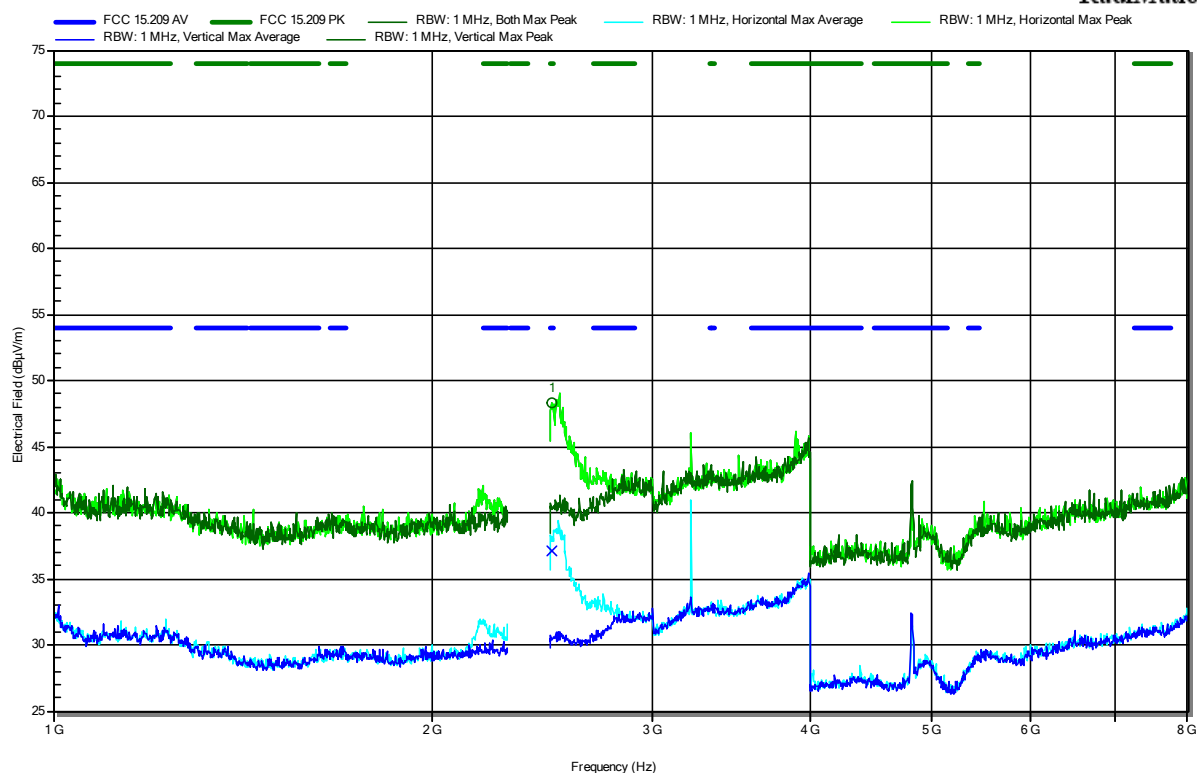
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 2.4983 GHz | 37.85 dBµV/m | 54 dBµV/m     | -16.15 dB          | Pass           | Horizontal   |
| 4.8277 GHz | 32.22 dBµV/m | 54 dBµV/m     | -21.78 dB          | Pass           | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS1; CH 1\_2412 MHz; OFDM; HT20  
 Test Date: 2022-10-20  
 Note:

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**RadiMation**



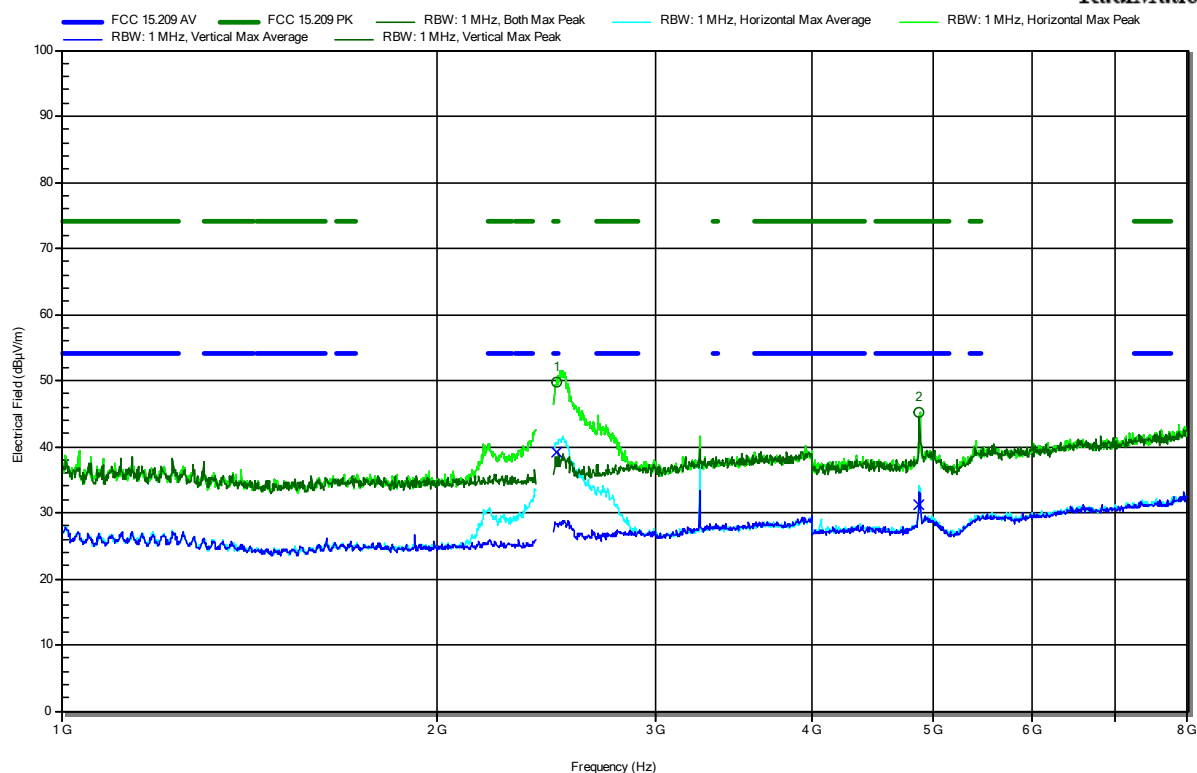
|                         |                         |                            |                                 |                        |                            |
|-------------------------|-------------------------|----------------------------|---------------------------------|------------------------|----------------------------|
| Frequency<br>2.4926 GHz | Peak<br>48.34 dBµV/m    | Peak Limit<br>74 dBµV/m    | Peak Difference<br>-25.66 dB    | Peak Status<br>Pass    | Polarization<br>Horizontal |
| Frequency<br>2.4926 GHz | Average<br>37.06 dBµV/m | Average Limit<br>54 dBµV/m | Average Difference<br>-16.94 dB | Average Status<br>Pass | Polarization<br>Horizontal |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 6\_2437 MHz; OFDM; BW20  
 Test Date: 2022-10-20  
 Note:

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**RadiMation**



| Frequency  | Peak         | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|--------------|------------|-----------------|-------------|--------------|
| 2.4947 GHz | 49.77 dBµV/m | 74 dBµV/m  | -24.23 dB       | Pass        | Horizontal   |
| 4.8756 GHz | 45.24 dBµV/m | 74 dBµV/m  | -28.76 dB       | Pass        | Horizontal   |

| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 2.4947 GHz | 39.15 dBµV/m | 54 dBµV/m     | -14.85 dB          | Pass           | Horizontal   |
| 4.8756 GHz | 31.19 dBµV/m | 54 dBµV/m     | -22.81 dB          | Pass           | Horizontal   |

Test Report No.: G0M-2205-1454-TFC247WF-V02

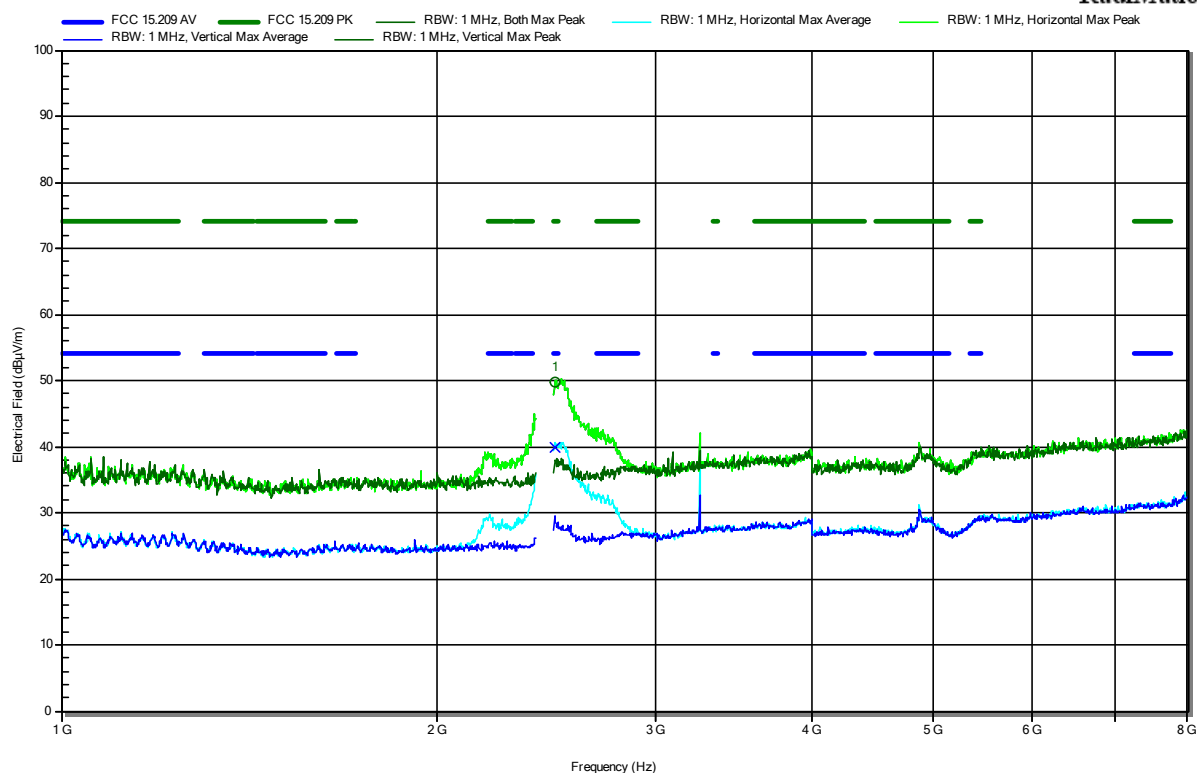
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS0; CH 6\_2437 MHz; OFDM; HT40  
 Test Date: 2022-10-20  
 Note:

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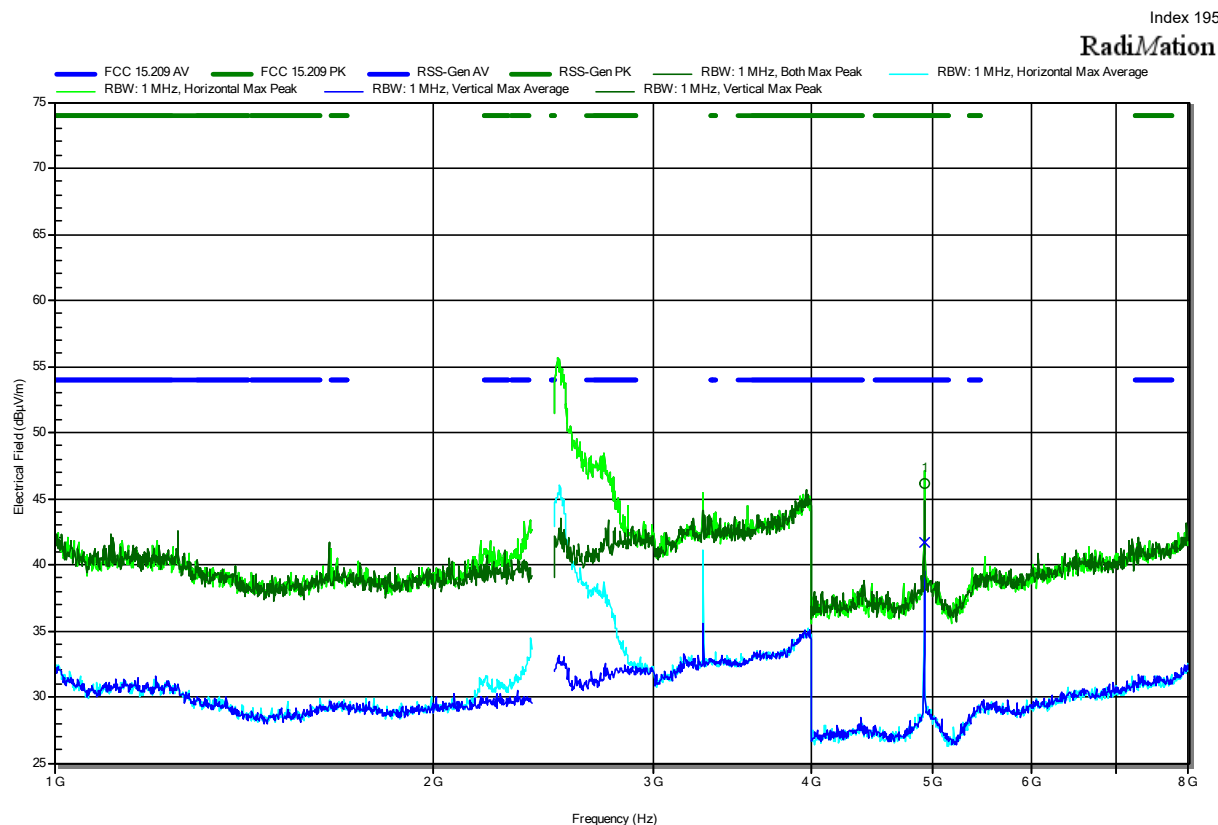
**RadiMation**



|                        |                         |                            |                                 |                        |                            |
|------------------------|-------------------------|----------------------------|---------------------------------|------------------------|----------------------------|
| Frequency<br>2.489 GHz | Peak<br>49.87 dBµV/m    | Peak Limit<br>74 dBµV/m    | Peak Difference<br>-24.13 dB    | Peak Status<br>Pass    | Polarization<br>Horizontal |
| Frequency<br>2.489 GHz | Average<br>39.94 dBµV/m | Average Limit<br>54 dBµV/m | Average Difference<br>-14.06 dB | Average Status<br>Pass | Polarization<br>Horizontal |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1 Mbps; CH 11\_2462 MHz; DSSS; BW20  
 Test Date: 2022-10-20  
 Note:



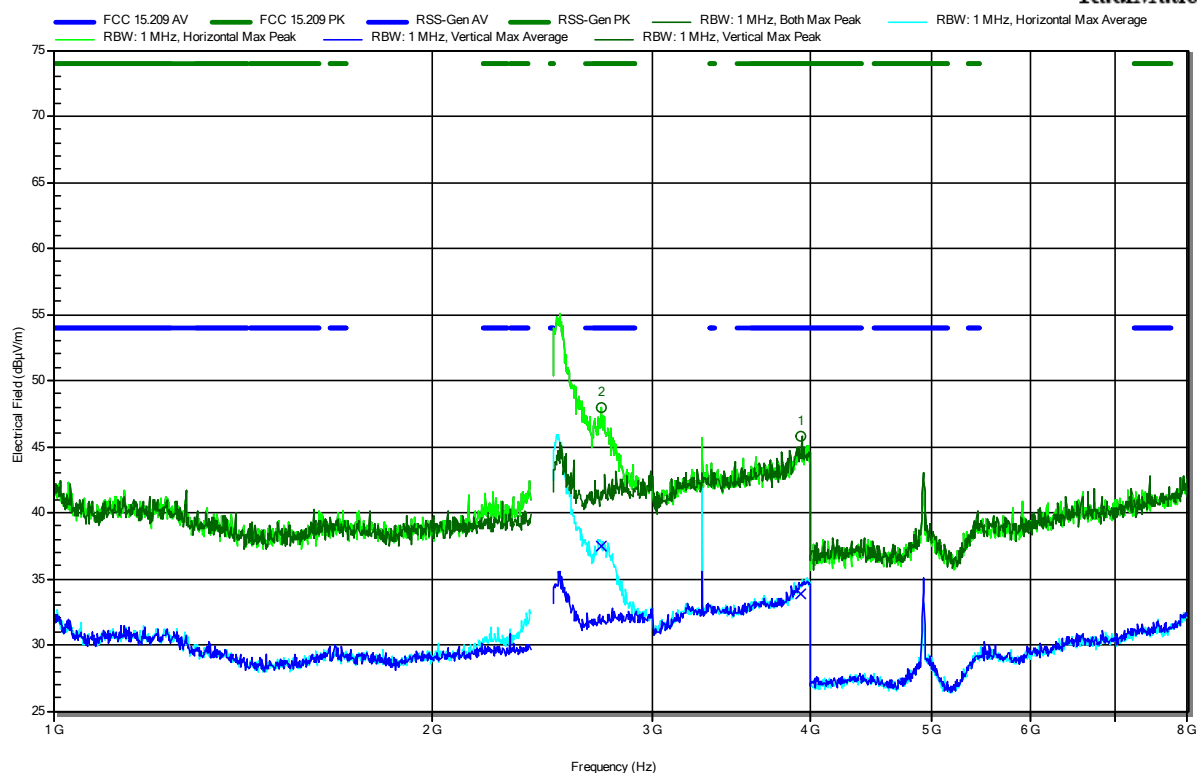
| Frequency | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
|-----------|--------------|---------------|--------------------|----------------|--------------|
| 4.924 GHz | 46.17 dBµV/m | 74 dBµV/m     | -27.83 dB          | Pass           | Horizontal   |
| Frequency | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 4.924 GHz | 41.71 dBµV/m | 54 dBµV/m     | -12.29 dB          | Pass           | Horizontal   |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-10-19  
 Note:

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**RadiMation**



| Frequency | Peak         | Peak Limit | Peak Difference | Peak Status | Polarization |
|-----------|--------------|------------|-----------------|-------------|--------------|
| 2.728 GHz | 47.91 dBμV/m | 74 dBμV/m  | -26.09 dB       | Pass        | Horizontal   |
| 3.941 GHz | 45.81 dBμV/m | 74 dBμV/m  | -28.19 dB       | Pass        | Vertical     |

| Frequency | Average      | Average Limit | Average Difference | Average Status | Polarization |
|-----------|--------------|---------------|--------------------|----------------|--------------|
| 2.728 GHz | 37.49 dBμV/m | 54 dBμV/m     | -16.51 dB          | Pass           | Horizontal   |
| 3.941 GHz | 33.83 dBμV/m | 54 dBμV/m     | -20.17 dB          | Pass           | Vertical     |

Test Report No.: G0M-2205-1454-TFC247WF-V02

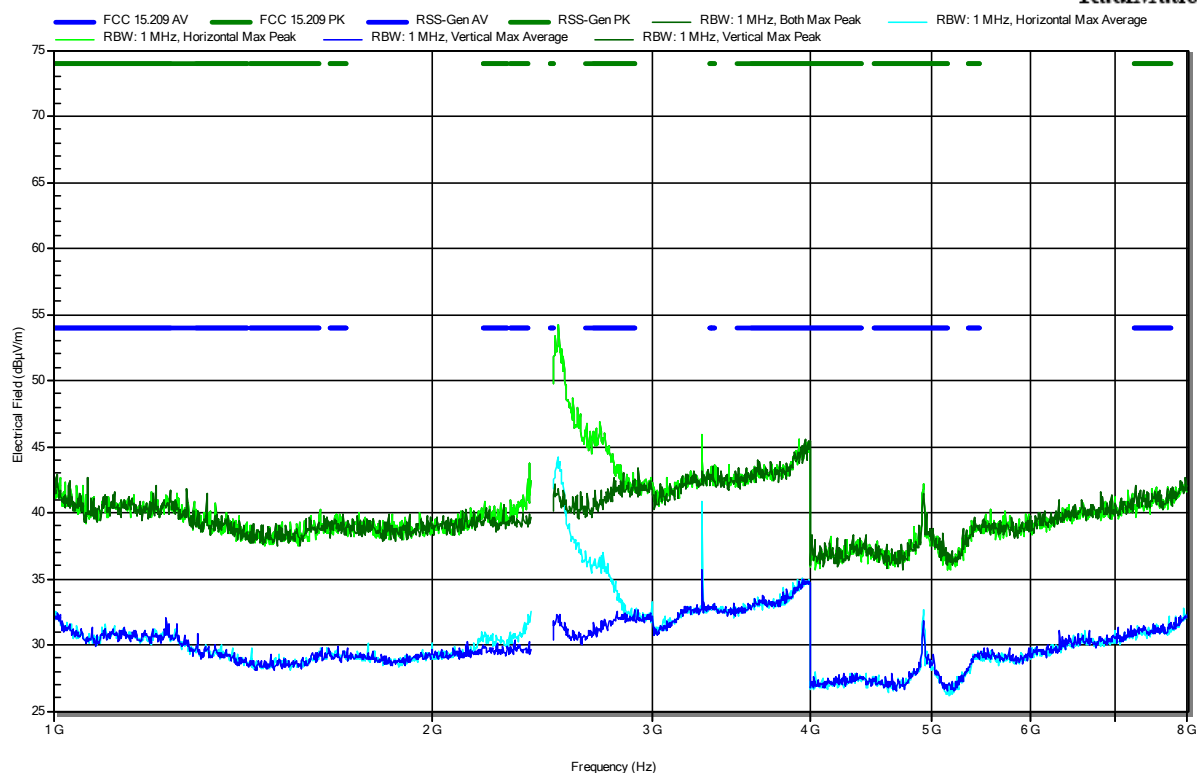
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS1; CH 11\_2462 MHz; OFDM; HT20  
 Test Date: 2022-10-20  
 Note:

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**RadiMation**

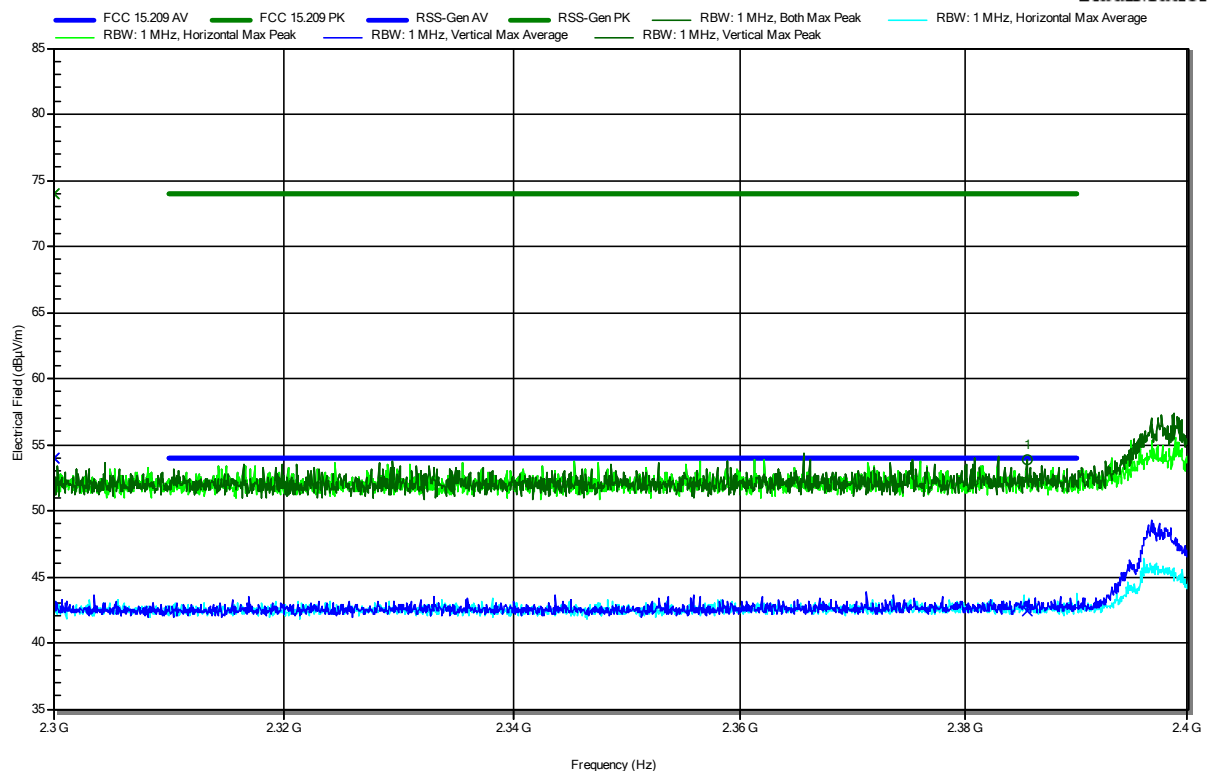


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1 Mbps; CH 1\_2412 MHz; DSSS; BW20  
 Test Date: 2022-10-19  
 Note: lower bandedge

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RadiMation



|                         |                         |                            |                                 |                        |                          |
|-------------------------|-------------------------|----------------------------|---------------------------------|------------------------|--------------------------|
| Frequency<br>2.3855 GHz | Peak<br>53.82 dBµV/m    | Peak Limit<br>74 dBµV/m    | Peak Difference<br>-20.18 dB    | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>2.3855 GHz | Average<br>42.43 dBµV/m | Average Limit<br>54 dBµV/m | Average Difference<br>-11.57 dB | Average Status<br>Pass | Polarization<br>Vertical |

Test Report No.: G0M-2205-1454-TFC247WF-V02

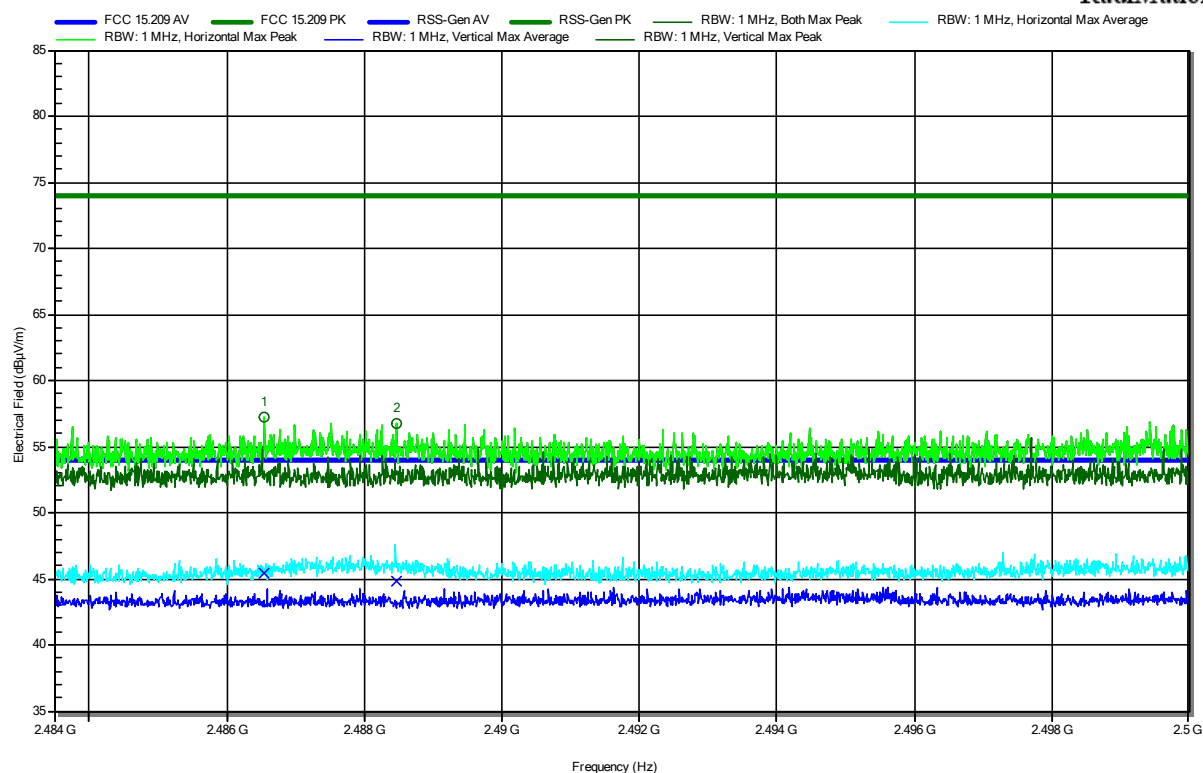
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1 Mbps; CH 11\_2462 MHz; DSSS; BW20  
 Test Date: 2022-10-19  
 Note: upper bandedge

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**RadiMation**



| Frequency  | Peak         | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|--------------|------------|-----------------|-------------|--------------|
| 2.4866 GHz | 57.25 dBμV/m | 74 dBμV/m  | -16.75 dB       | Pass        | Horizontal   |
| 2.4885 GHz | 56.78 dBμV/m | 74 dBμV/m  | -17.22 dB       | Pass        | Horizontal   |

| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 2.4866 GHz | 45.44 dBμV/m | 54 dBμV/m     | -8.56 dB           | Pass           | Horizontal   |
| 2.4885 GHz | 44.85 dBμV/m | 54 dBμV/m     | -9.15 dB           | Pass           | Horizontal   |

Test Report No.: G0M-2205-1454-TFC247WF-V02

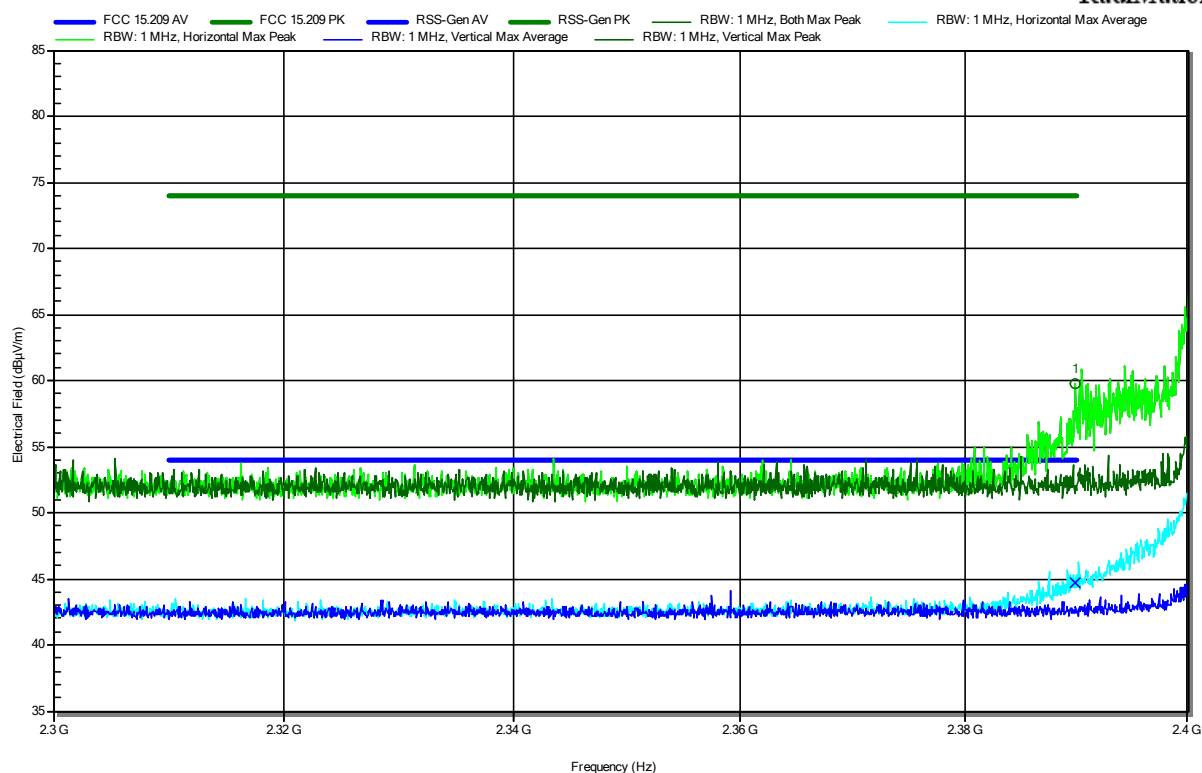
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 1 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-10-19  
 Note: lower bandedge

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RadiMation



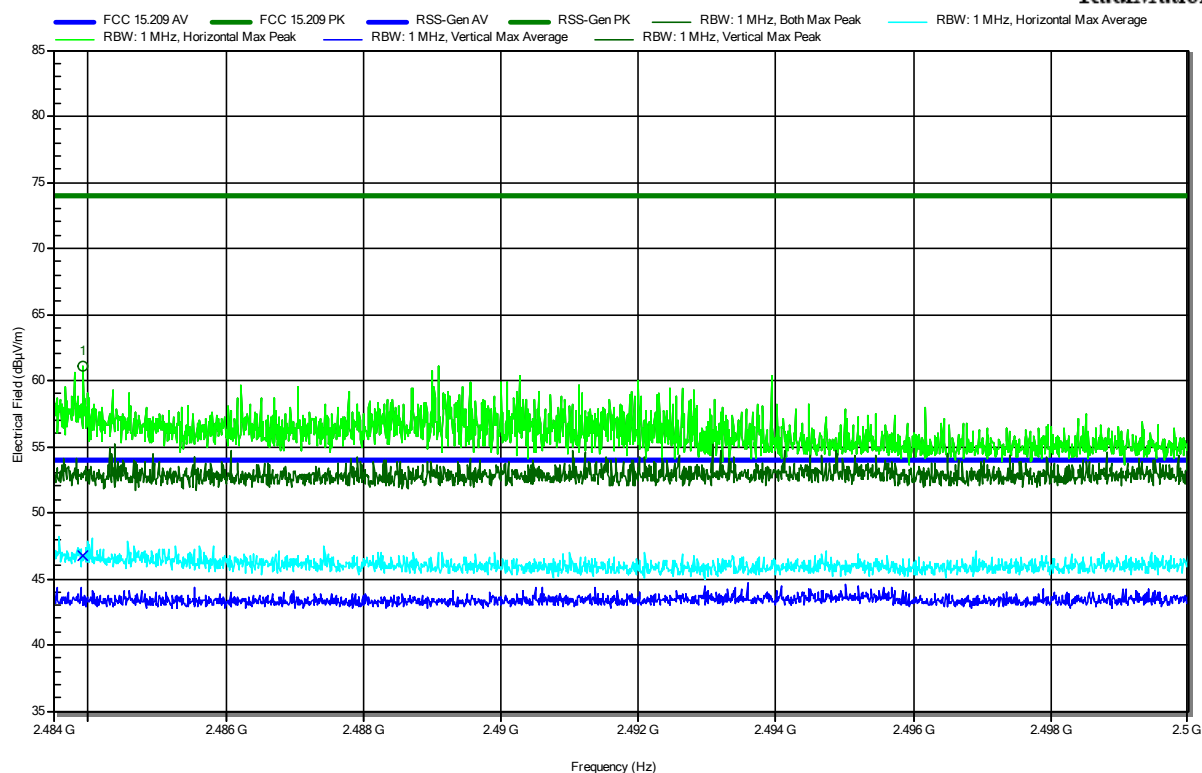
|            |              |               |                    |                |              |
|------------|--------------|---------------|--------------------|----------------|--------------|
| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
| 2.3899 GHz | 59.75 dBμV/m | 74 dBμV/m     | -14.25 dB          | Pass           | Horizontal   |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 2.3899 GHz | 44.65 dBμV/m | 54 dBμV/m     | -9.35 dB           | Pass           | Horizontal   |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 1 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-10-19  
 Note: upper bandedge

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|            |              |               |                    |                |              |
|------------|--------------|---------------|--------------------|----------------|--------------|
| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
| 2.4839 GHz | 61.12 dBµV/m | 74 dBµV/m     | -12.88 dB          | Pass           | Horizontal   |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 2.4839 GHz | 46.75 dBµV/m | 54 dBµV/m     | -7.25 dB           | Pass           | Horizontal   |

Test Report No.: G0M-2205-1454-TFC247WF-V02

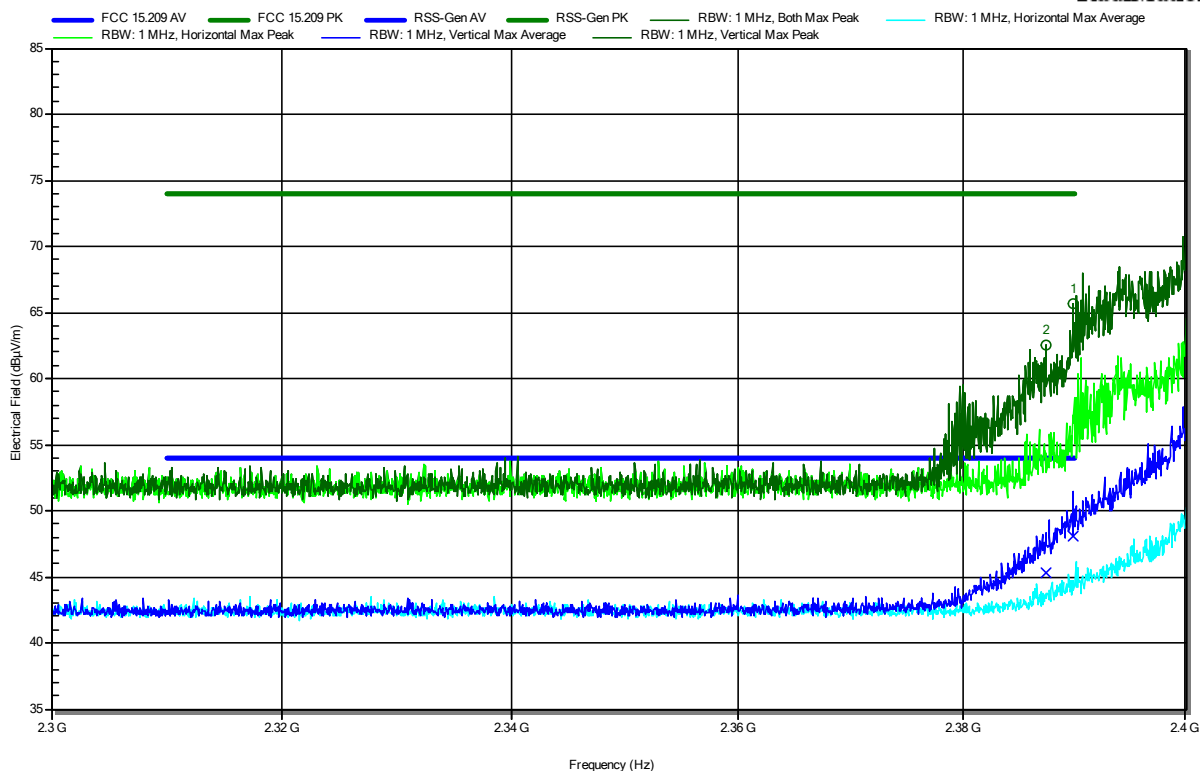
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-10-19  
 Note: lower bandedge

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| Frequency  | Peak         | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|--------------|------------|-----------------|-------------|--------------|
| 2.3875 GHz | 62.5 dBµV/m  | 74 dBµV/m  | -11.5 dB        | Pass        | Vertical     |
| 2.3899 GHz | 65.67 dBµV/m | 74 dBµV/m  | -8.33 dB        | Pass        | Vertical     |

| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 2.3875 GHz | 45.26 dBµV/m | 54 dBµV/m     | -8.74 dB           | Pass           | Vertical     |
| 2.3899 GHz | 48.09 dBµV/m | 54 dBµV/m     | -5.91 dB           | Pass           | Vertical     |

Test Report No.: G0M-2205-1454-TFC247WF-V02

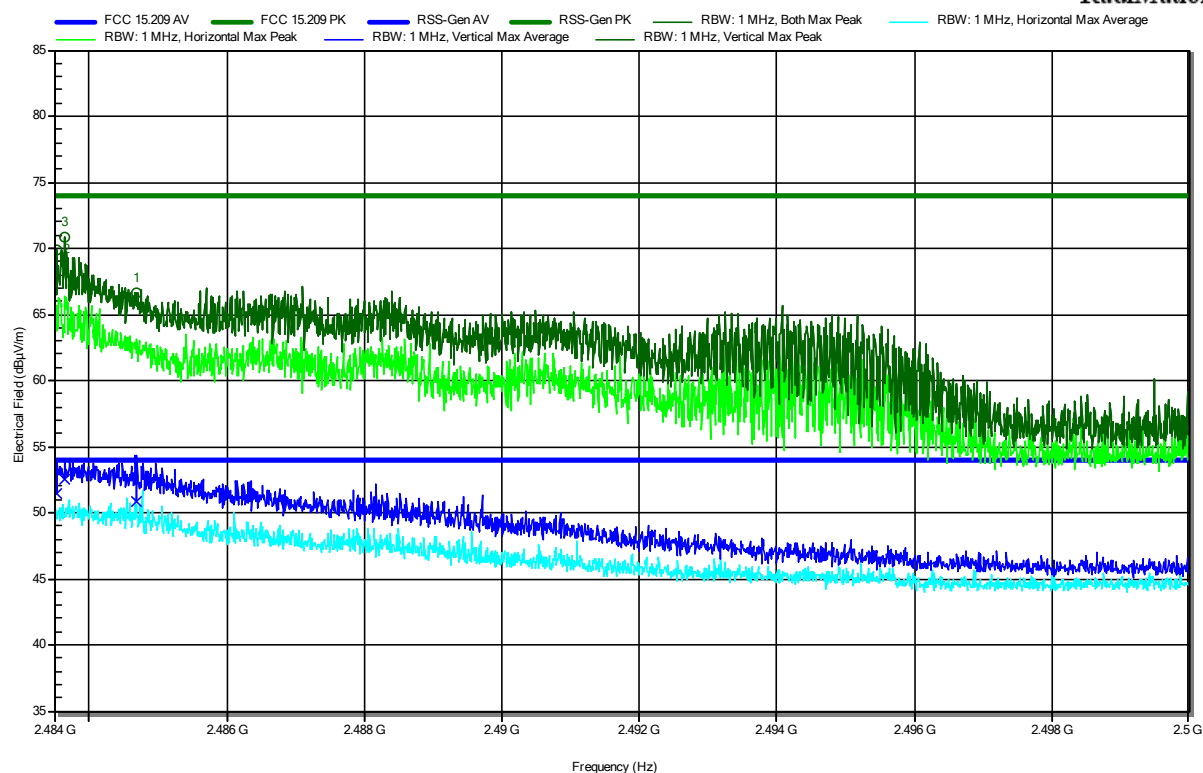
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2462 MHz; OFDM; BW20  
 Test Date: 2022-10-19  
 Note: upper bandedge

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| Frequency  | Peak         | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|--------------|------------|-----------------|-------------|--------------|
| 2.4835 GHz | 69.92 dBµV/m | 74 dBµV/m  | -4.08 dB        | Pass        | Vertical     |
| 2.4836 GHz | 70.86 dBµV/m | 74 dBµV/m  | -3.14 dB        | Pass        | Vertical     |
| 2.4847 GHz | 66.68 dBµV/m | 74 dBµV/m  | -7.32 dB        | Pass        | Vertical     |

| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 2.4835 GHz | 51.42 dBµV/m | 54 dBµV/m     | -2.58 dB           | Pass           | Vertical     |
| 2.4836 GHz | 52.47 dBµV/m | 54 dBµV/m     | -1.53 dB           | Pass           | Vertical     |
| 2.4847 GHz | 50.82 dBµV/m | 54 dBµV/m     | -3.18 dB           | Pass           | Vertical     |

Test Report No.: G0M-2205-1454-TFC247WF-V02

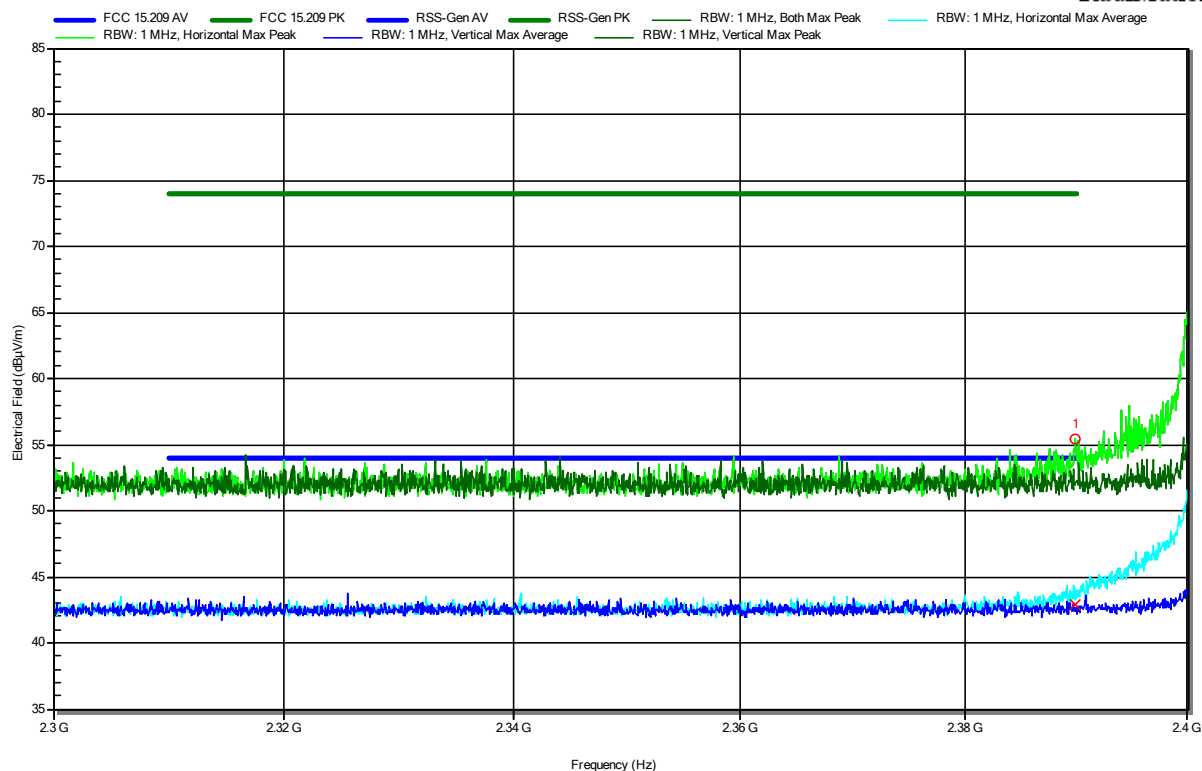
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS1; CH 1\_2412 MHz; OFDM; HT20  
 Test Date: 2022-10-19  
 Note: lower bandedge

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**RadiMation**



| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 2.3899 GHz | 55.43 dBμV/m | 74 dBμV/m     | -18.57 dB          | Pass           | Horizontal   |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 2.3899 GHz | 42.84 dBμV/m | 54 dBμV/m     | -11.16 dB          | Pass           | Horizontal   |

Test Report No.: G0M-2205-1454-TFC247WF-V02

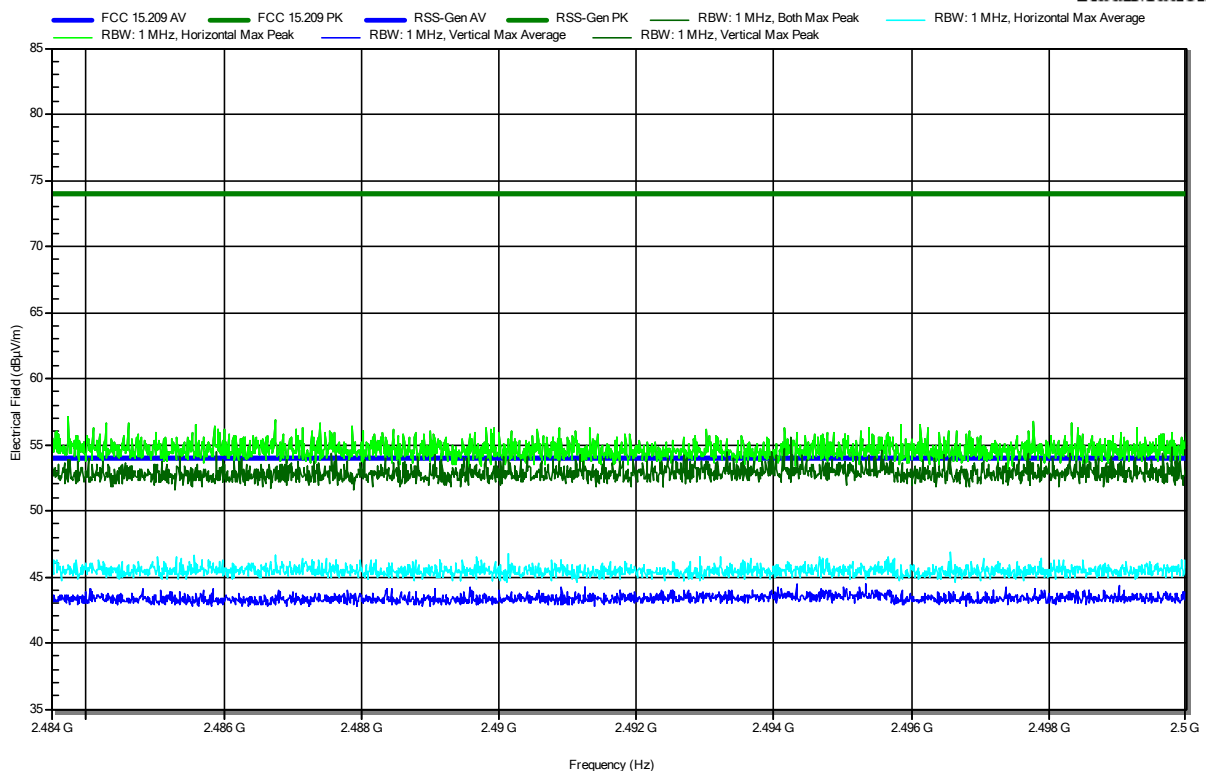
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120B  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS0; CH 9\_2452 MHz; OFDM; HT40  
 Test Date: 2022-10-19  
 Note: upper bandedge

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**RadiMation**

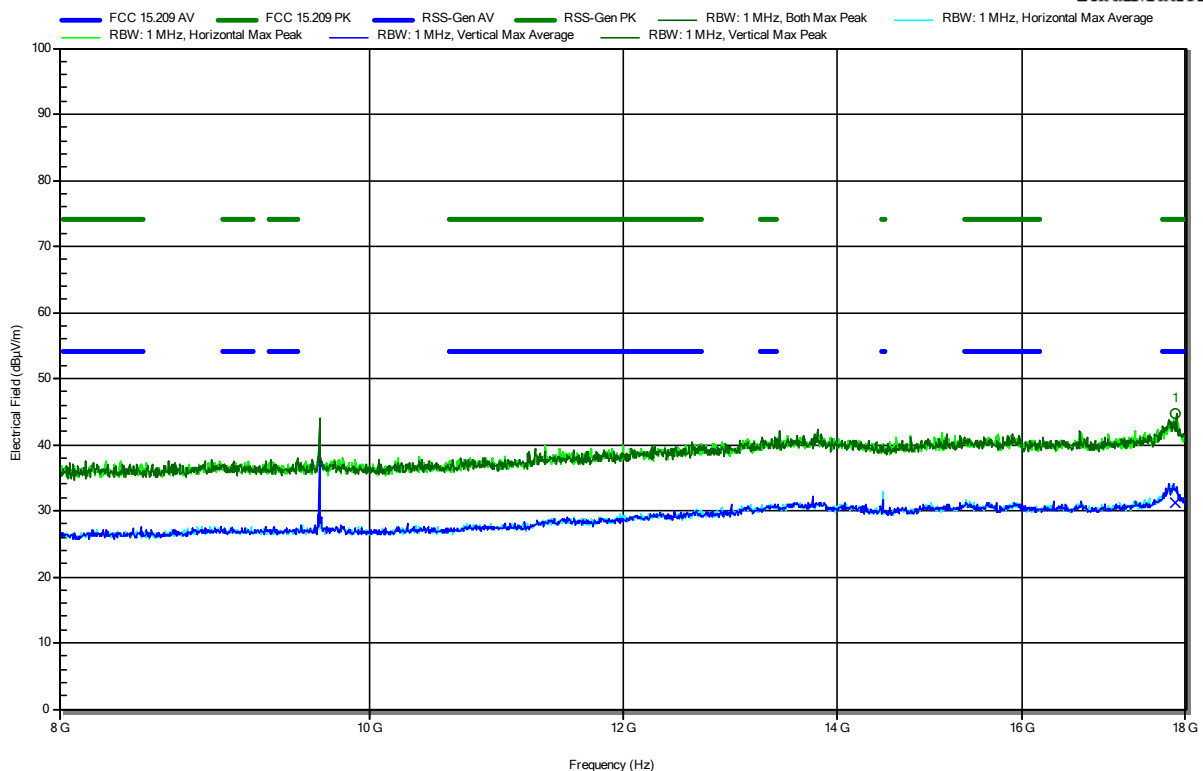


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1 Mbps; CH 1\_2412 MHz; DSSS; BW20  
 Test Date: 2022-10-20  
 Note:

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RadiMation



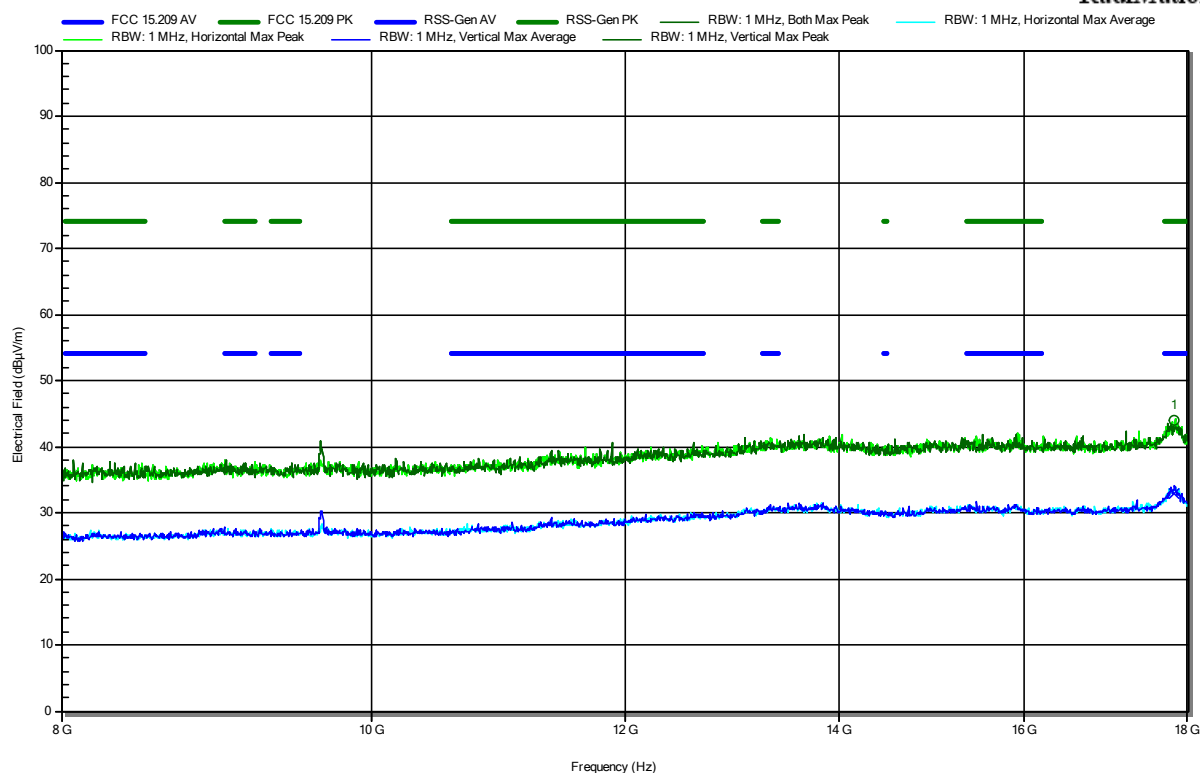
|                         |                         |                            |                                 |                        |                          |
|-------------------------|-------------------------|----------------------------|---------------------------------|------------------------|--------------------------|
| Frequency<br>17.873 GHz | Peak<br>44.79 dBµV/m    | Peak Limit<br>74 dBµV/m    | Peak Difference<br>-29.21 dB    | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>17.873 GHz | Average<br>31.26 dBµV/m | Average Limit<br>54 dBµV/m | Average Difference<br>-22.74 dB | Average Status<br>Pass | Polarization<br>Vertical |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-10-20  
 Note:

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**RadiMation**



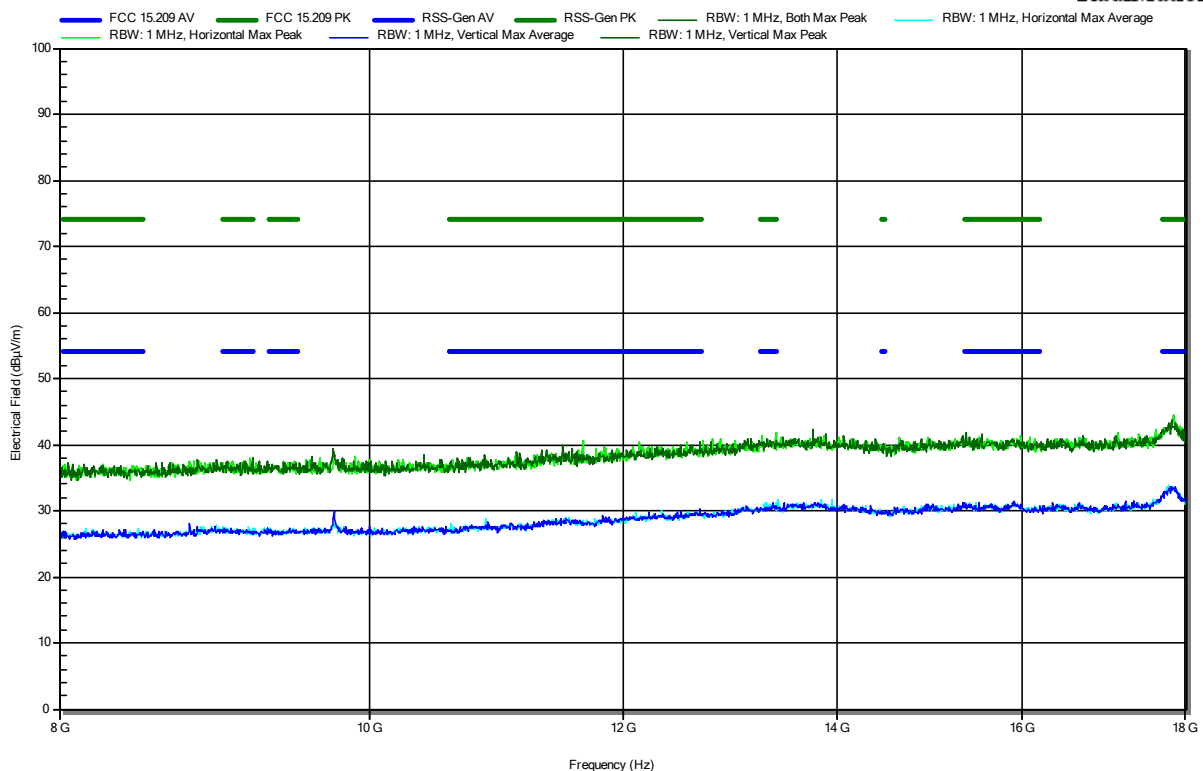
|                         |                         |                            |                                 |                        |                            |
|-------------------------|-------------------------|----------------------------|---------------------------------|------------------------|----------------------------|
| Frequency<br>17.835 GHz | Peak<br>44.09 dBµV/m    | Peak Limit<br>74 dBµV/m    | Peak Difference<br>-29.91 dB    | Peak Status<br>Pass    | Polarization<br>Horizontal |
| Frequency<br>17.835 GHz | Average<br>32.81 dBµV/m | Average Limit<br>54 dBµV/m | Average Difference<br>-21.19 dB | Average Status<br>Pass | Polarization<br>Horizontal |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 6\_2437 MHz; OFDM; BW20  
 Test Date: 2022-10-20  
 Note:

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RadiMation

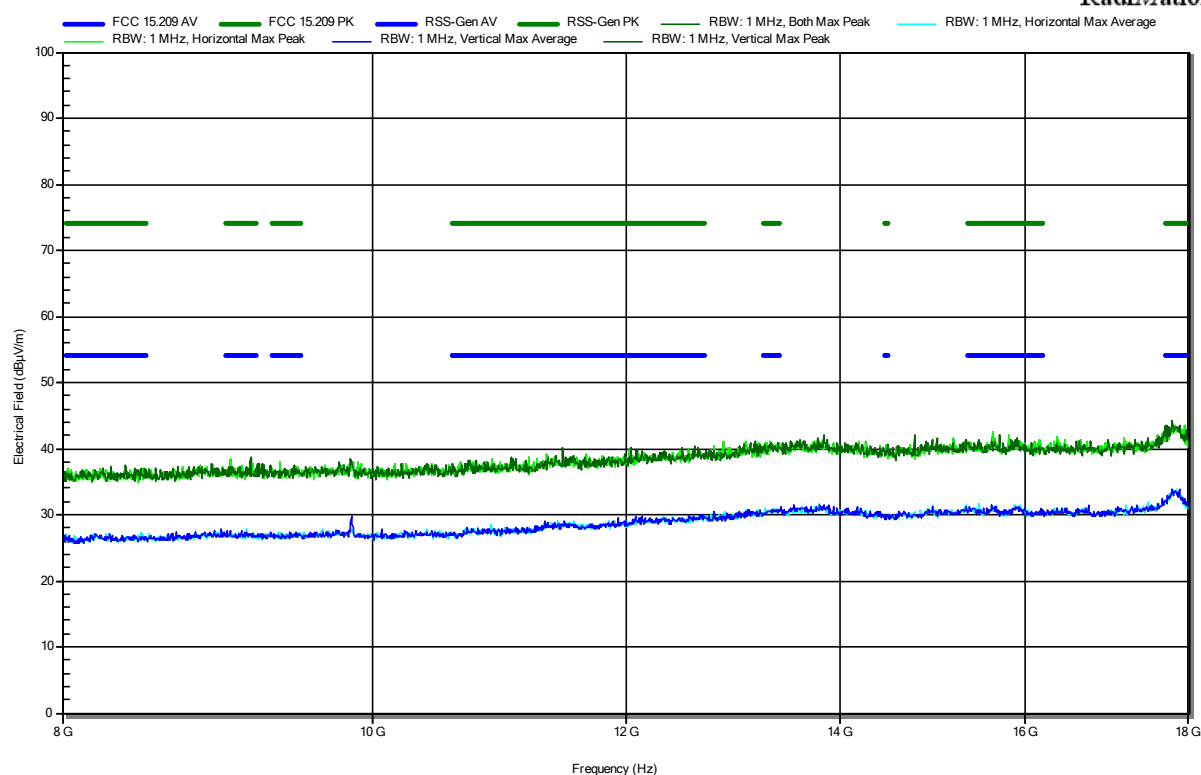


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 6 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-10-20  
 Note:

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RadiMation

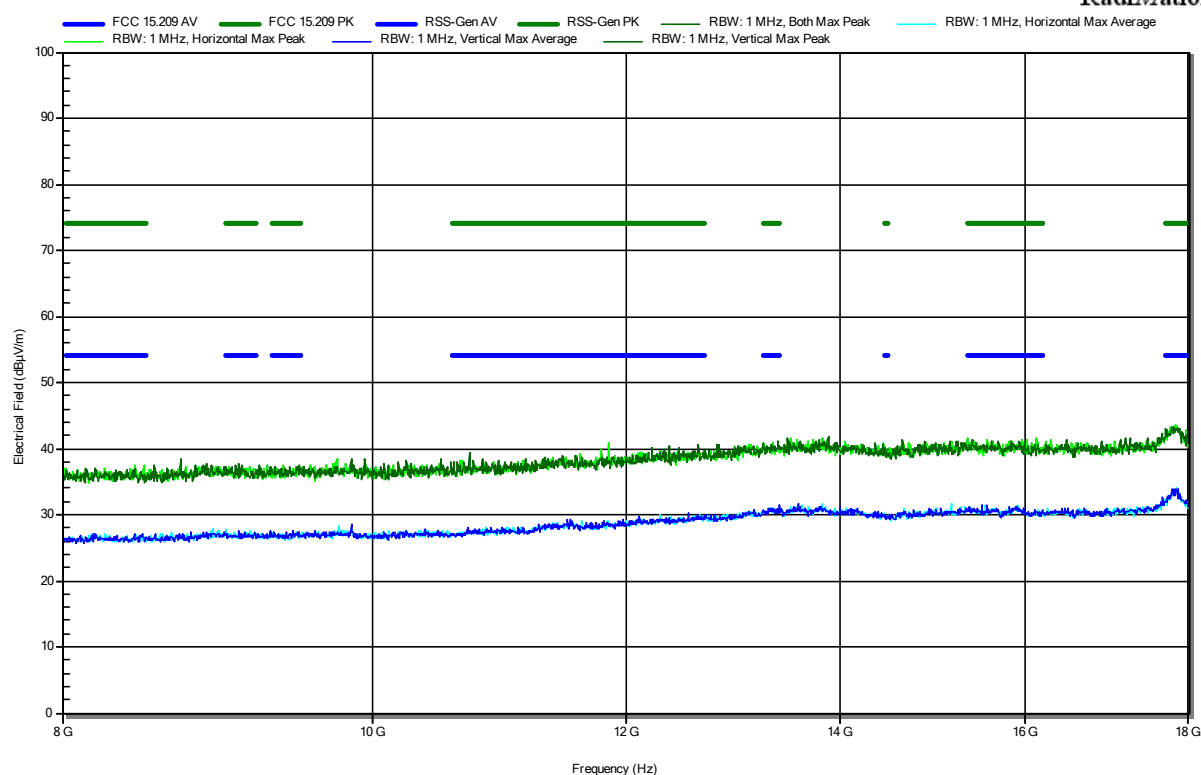


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MCS1; CH 11\_2462 MHz; OFDM; HT20  
 Test Date: 2022-10-20  
 Note:

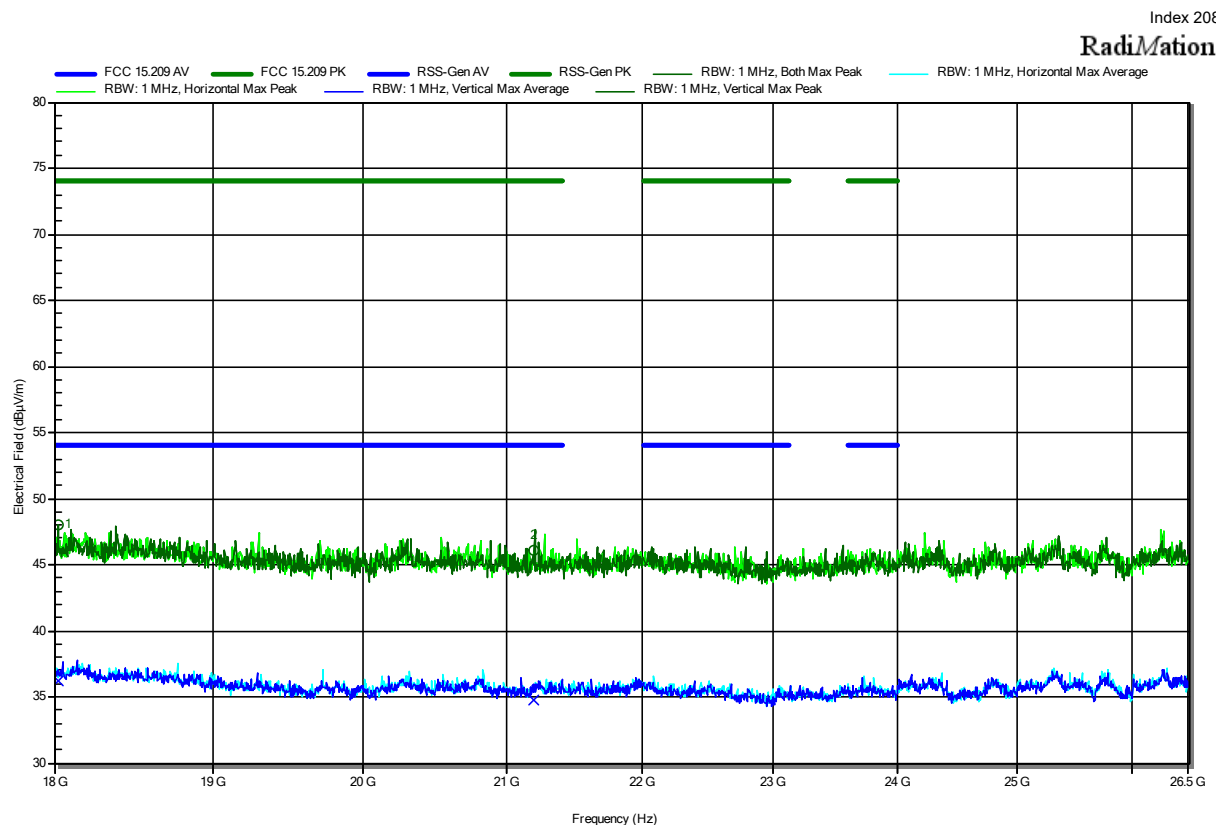
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RadiMation



## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11b; 1 Mbps; CH 1\_2412 MHz; DSSS; BW20  
 Test Date: 2022-10-20  
 Note:

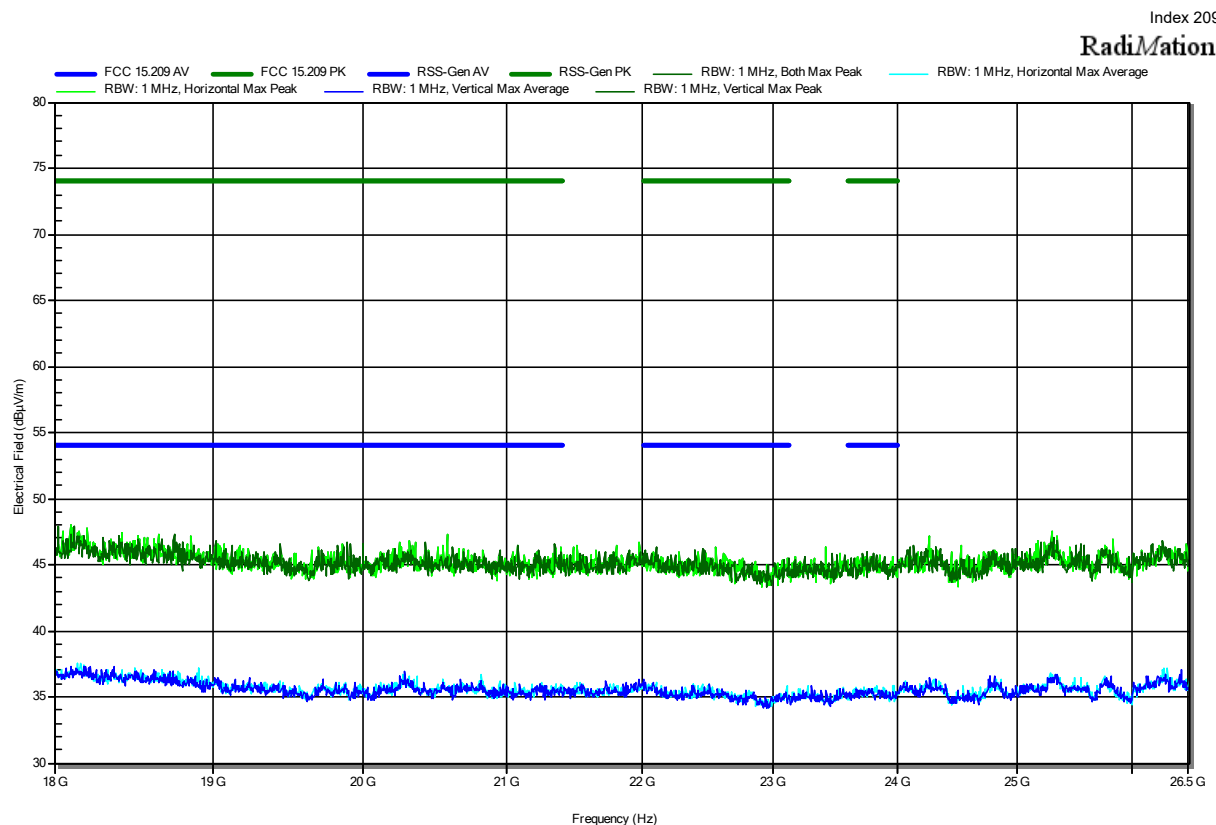


| Frequency  | Peak         | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|--------------|------------|-----------------|-------------|--------------|
| 18.025 GHz | 47.98 dBµV/m | 74 dBµV/m  | -26.02 dB       | Pass        | Vertical     |
| 21.201 GHz | 46.03 dBµV/m | 74 dBµV/m  | -27.97 dB       | Pass        | Horizontal   |

| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 18.025 GHz | 36.2 dBµV/m  | 54 dBµV/m     | -17.8 dB           | Pass           | Vertical     |
| 21.201 GHz | 34.75 dBµV/m | 54 dBµV/m     | -19.25 dB          | Pass           | Horizontal   |

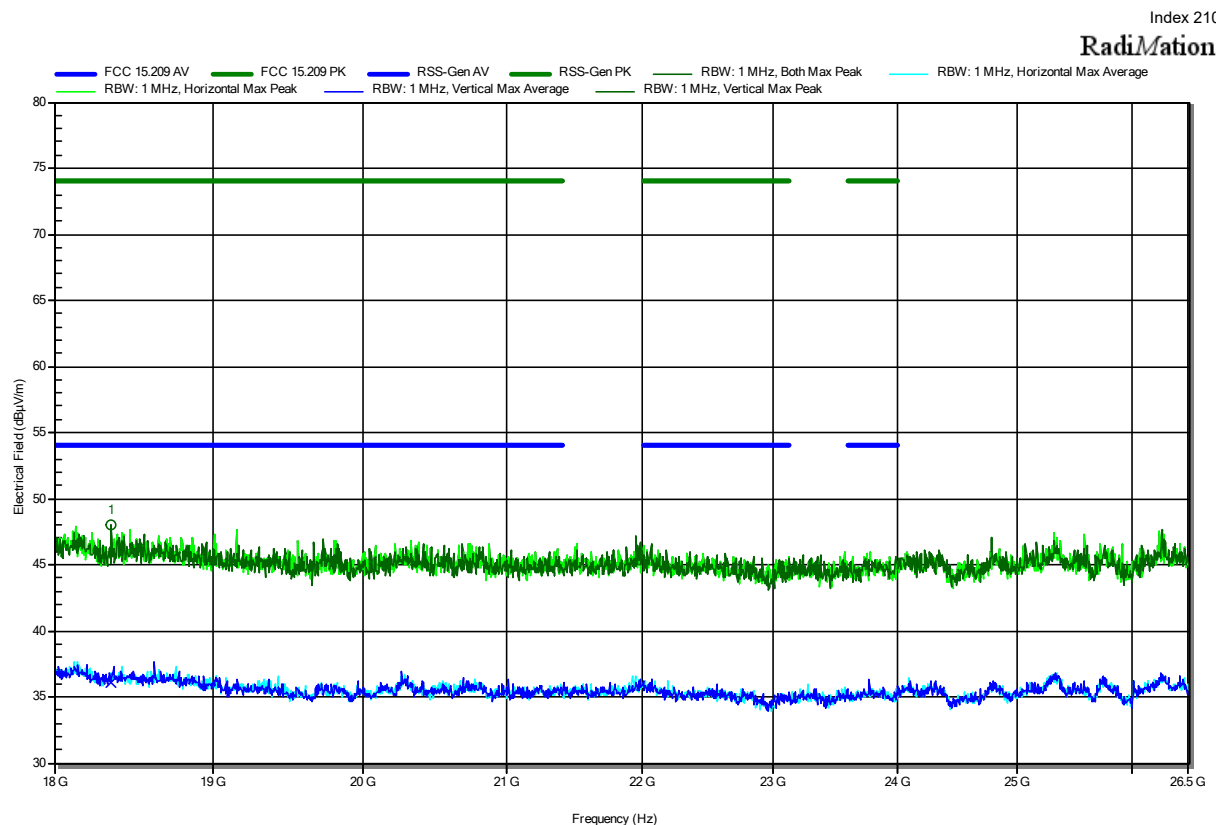
## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 1 Mbps; CH 1\_2412 MHz; OFDM; BW20  
 Test Date: 2022-10-20  
 Note:



## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11g; 1 Mbps; CH 11\_2462 MHz; OFDM; BW20  
 Test Date: 2022-10-20  
 Note:



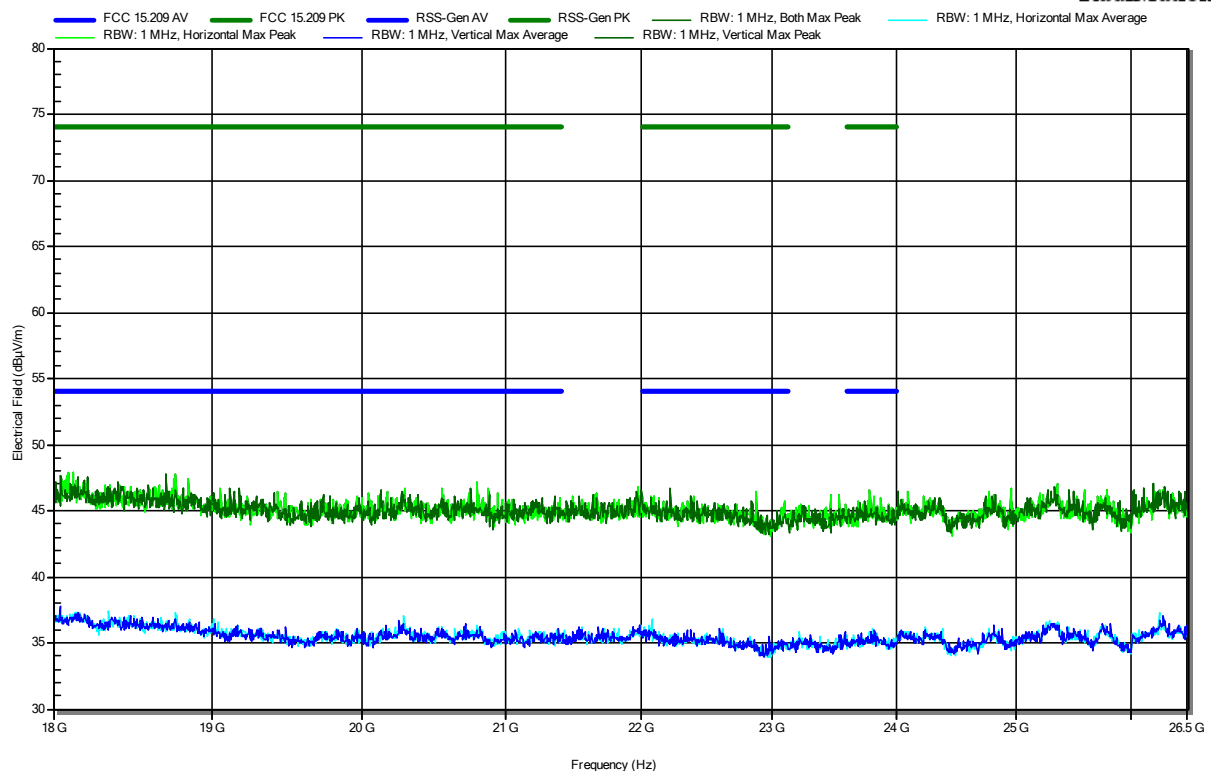
|            |              |               |                    |                |              |
|------------|--------------|---------------|--------------------|----------------|--------------|
| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
| 18.353 GHz | 48.03 dBµV/m | 74 dBµV/m     | -25.97 dB          | Pass           | Vertical     |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 18.353 GHz | 36.1 dBµV/m  | 54 dBµV/m     | -17.9 dB           | Pass           | Vertical     |

## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MSC1; CH 11\_2462 MHz; OFDM; HT20  
 Test Date: 2022-10-20  
 Note:

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RadiMation

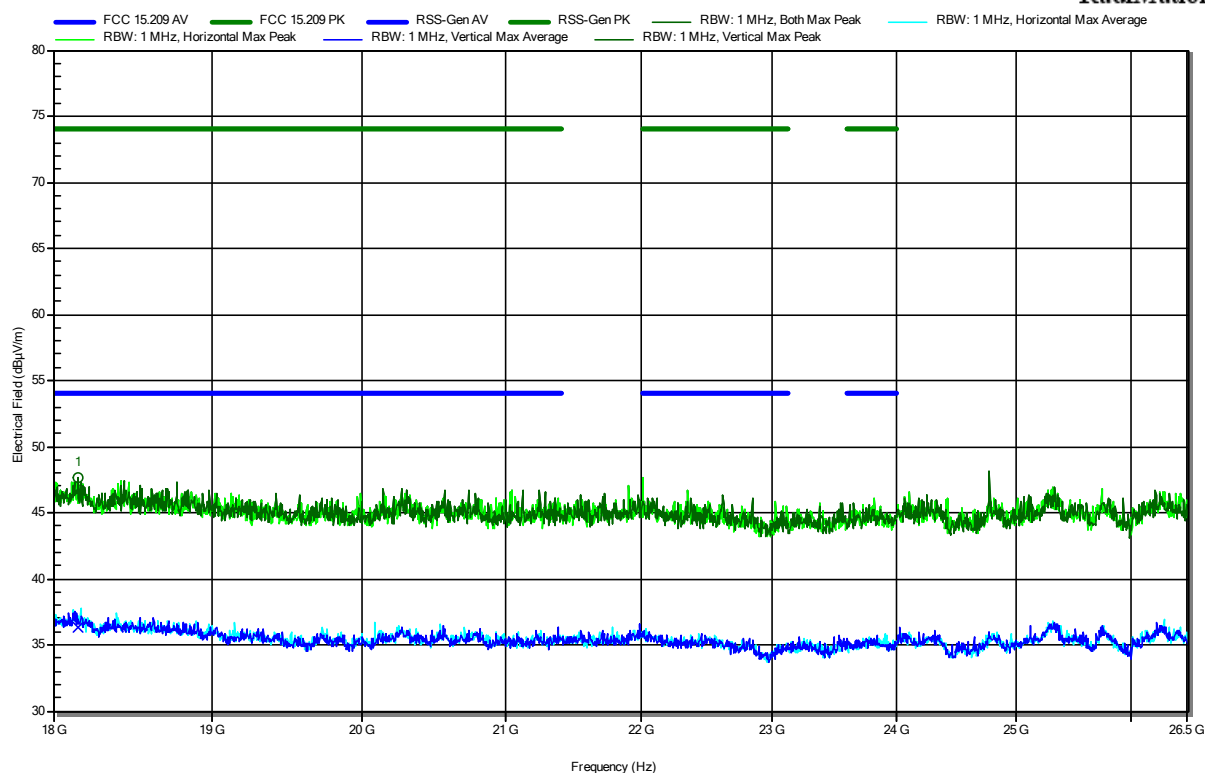


## Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: R. Jaafar  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 3.3 V DC  
 Antenna: Amplifier Research AT4560  
 Measurement distance: 3 m  
 Mode: Tx; IEEE802.11n; MSC0; CH 6\_2437 MHz; OFDM; HT40  
 Test Date: 2022-10-20  
 Note:

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**RadiMation**

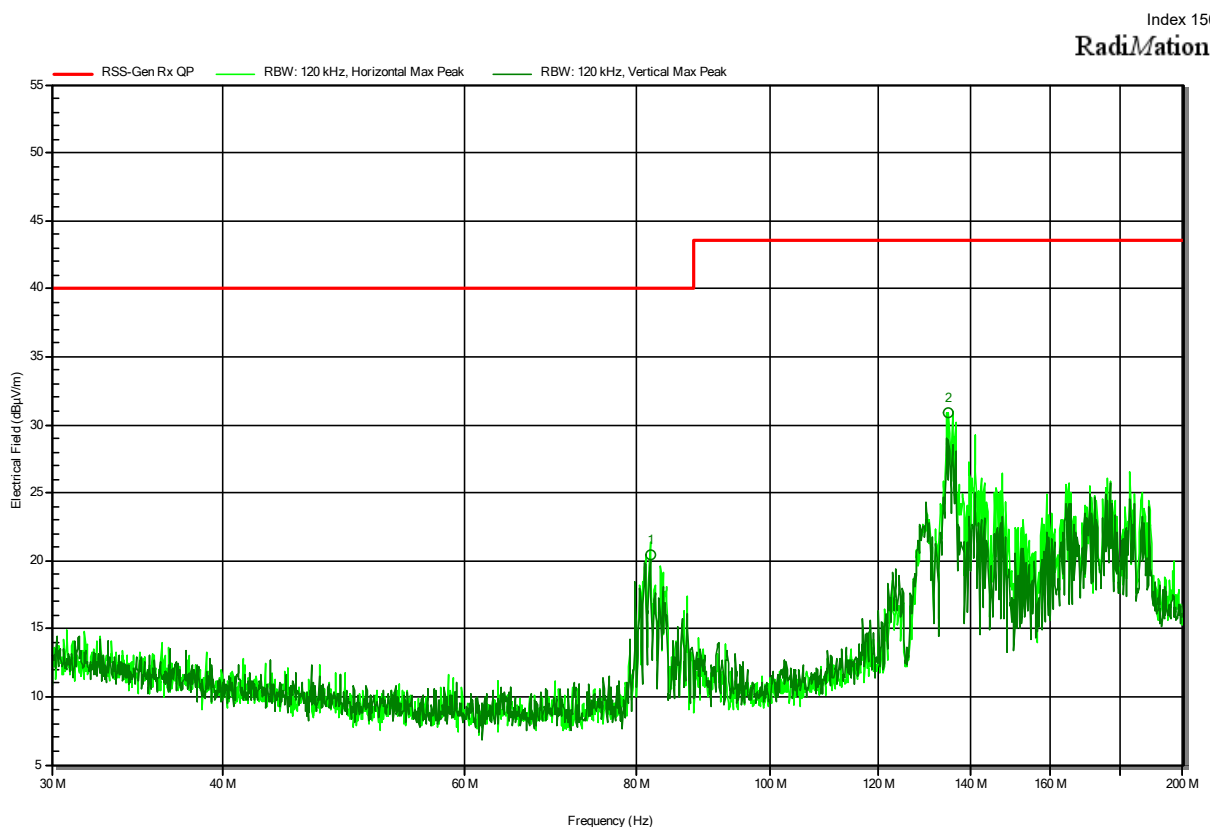


| Frequency  | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
|------------|--------------|---------------|--------------------|----------------|--------------|
| 18.153 GHz | 47.6 dBµV/m  | 74 dBµV/m     | -26.4 dB           | Pass           | Vertical     |
| Frequency  | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 18.153 GHz | 36.38 dBµV/m | 54 dBµV/m     | -17.62 dB          | Pass           | Vertical     |

## ANNEX D Receiver spurious emissions

### Radiated Spurious Emissions according to RSS-247, RSS-Gen Issue 5

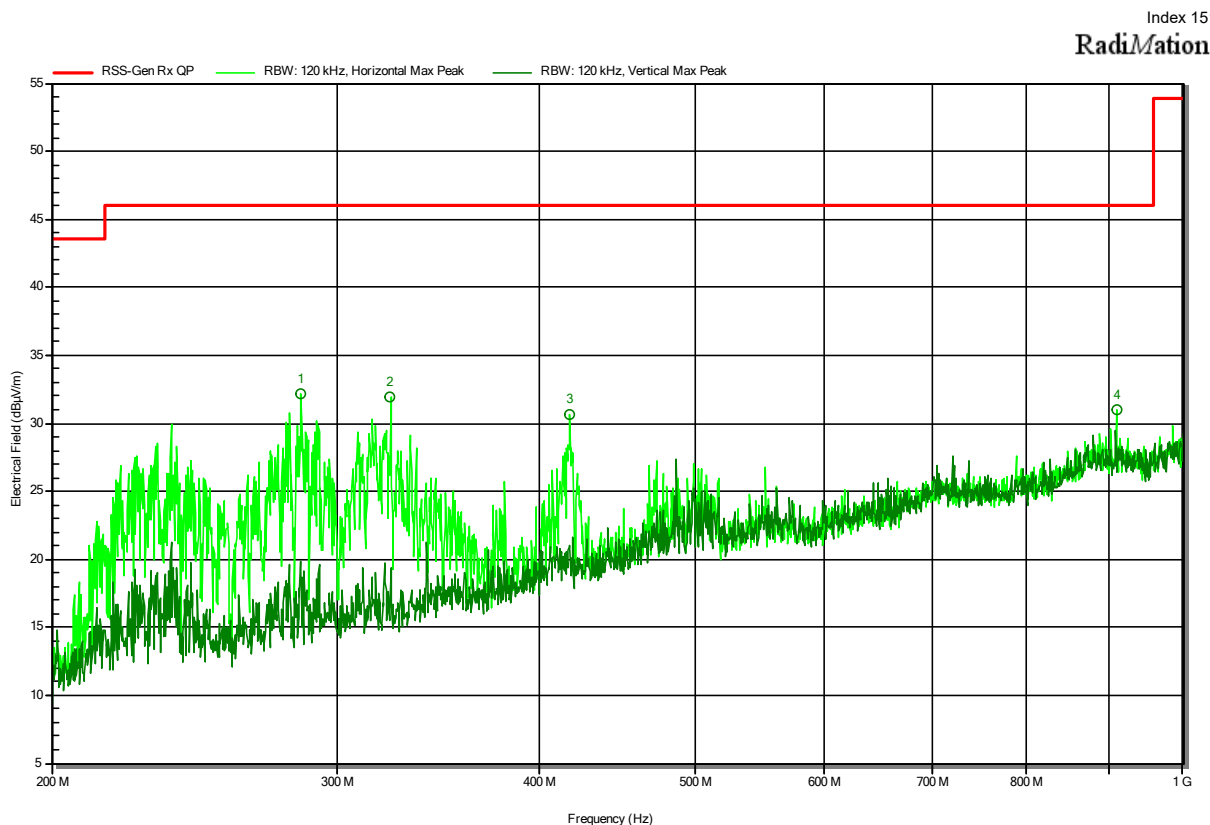
Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Rx; IEEE802.11g; CH 6\_2437 MHz; BW20  
 Test Date: 2022-08-26  
 Note:



| Frequency    | Peak        | Peak Limit  | Peak Difference | Peak Status | Polarization |
|--------------|-------------|-------------|-----------------|-------------|--------------|
| 81.816 MHz   | 20.5 dBµV/m | 40 dBµV/m   | -19.51 dB       | Pass        | Horizontal   |
| 135.0727 MHz | 30.9 dBµV/m | 43.5 dBµV/m | -12.64 dB       | Pass        | Horizontal   |

## Radiated Spurious Emissions according to RSS-247, RSS-Gen Issue 5

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 20 °Celsius, Vnom: 5.0 V DC  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Rx; IEEE802.11g; CH 6\_2437 MHz; BW20  
 Test Date: 2022-08-26  
 Note:



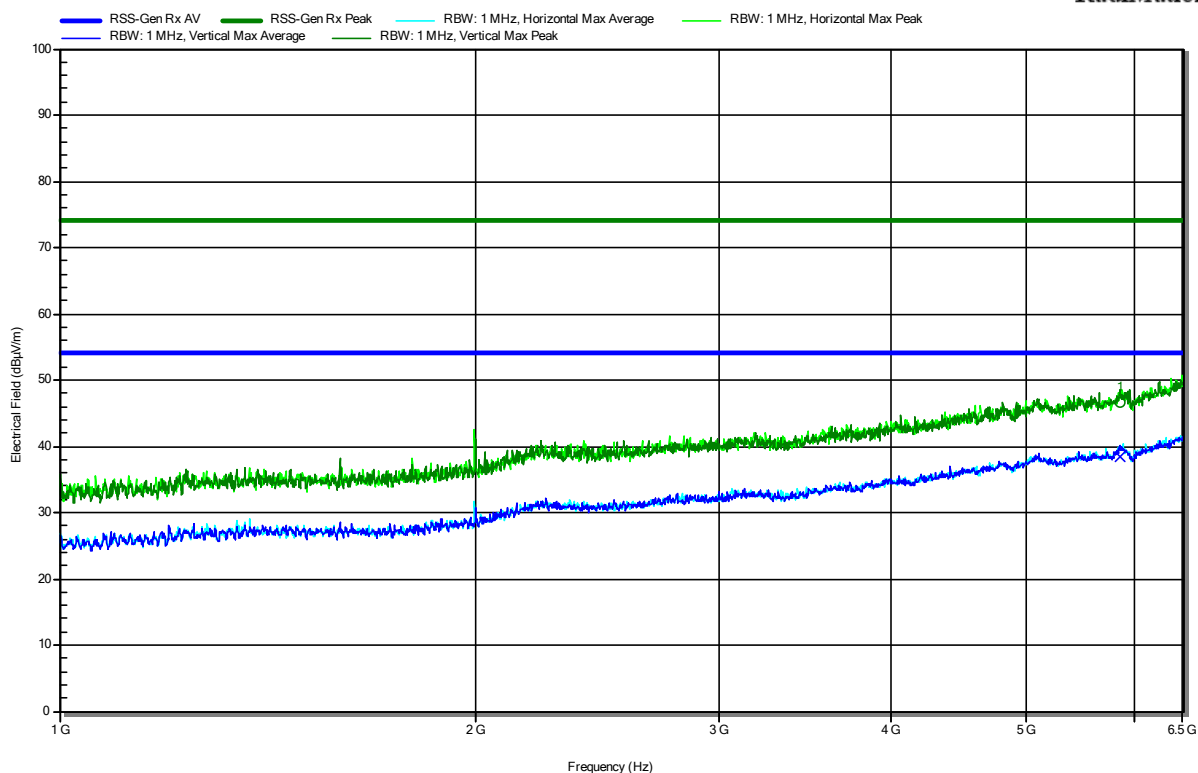
| Frequency  | Peak        | Peak Limit | Peak Difference | Peak Status | Polarization |
|------------|-------------|------------|-----------------|-------------|--------------|
| 284.96 MHz | 32.1 dBµV/m | 46 dBµV/m  | -13.85 dB       | Pass        | Horizontal   |
| 323.86 MHz | 31.9 dBµV/m | 46 dBµV/m  | -14.11 dB       | Pass        | Horizontal   |
| 417.76 MHz | 30.6 dBµV/m | 46 dBµV/m  | -15.39 dB       | Pass        | Horizontal   |
| 909.48 MHz | 31 dBµV/m   | 46 dBµV/m  | -15.02 dB       | Pass        | Horizontal   |

## Radiated Spurious Emissions according to RSS-247, RSS-Gen Issue 5

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck BBHA 9120D  
 Measurement distance: 3 m  
 Mode: Rx; IEEE802.11g; CH 6\_2437 MHz; BW20  
 Test Date: 2022-08-29  
 Note:

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**RadiMation**



|                        |                         |                               |                                 |                        |                            |
|------------------------|-------------------------|-------------------------------|---------------------------------|------------------------|----------------------------|
| Frequency<br>5.852 GHz | Peak<br>46.59 dBµV/m    | Peak Limit<br>74 dBµV/m       | Peak Difference<br>-27.41 dB    | Peak Status<br>Pass    | Polarization<br>Horizontal |
| Frequency<br>5.852 GHz | Average<br>38.43 dBµV/m | Average Limit<br>53.98 dBµV/m | Average Difference<br>-15.55 dB | Average Status<br>Pass | Polarization<br>Horizontal |

Test Report No.: G0M-2205-1454-TFC247WF-V02

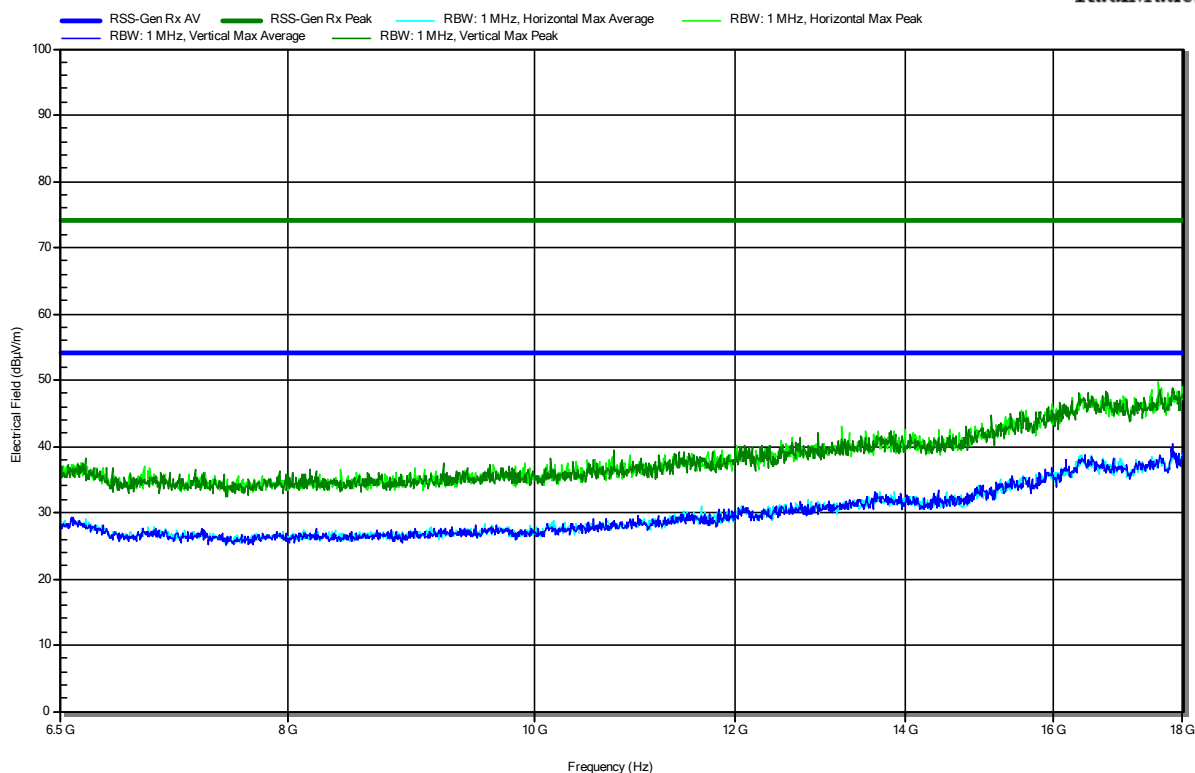
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to RSS-247, RSS-Gen Issue 5

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40679  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5.0 V DC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Rx; IEEE802.11g; CH 6\_2437 MHz; BW20  
 Test Date: 2022-08-29  
 Note:

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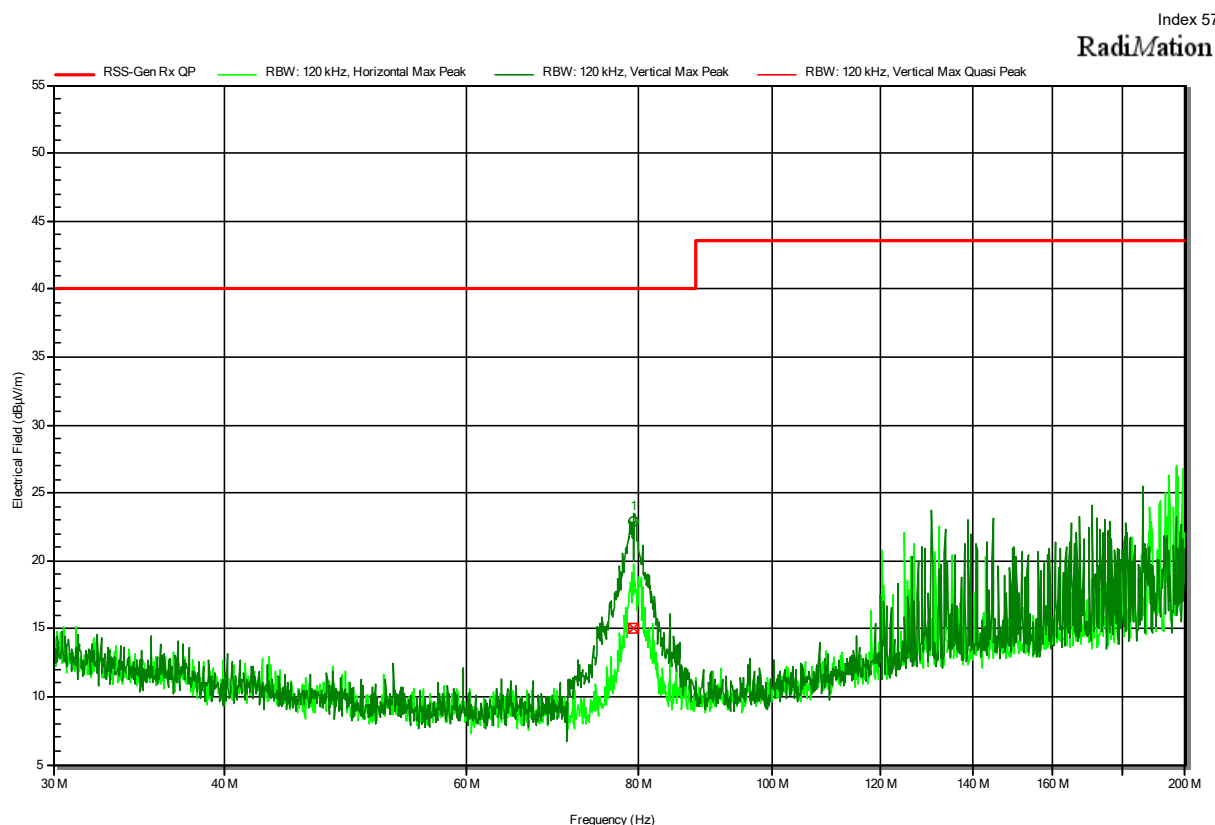
**RadiMation**



## ANNEX E Receiver spurious emissions (Tested variant 1)

### Radiated Spurious Emissions according to RSS-247 Issue 2, RSS-Gen

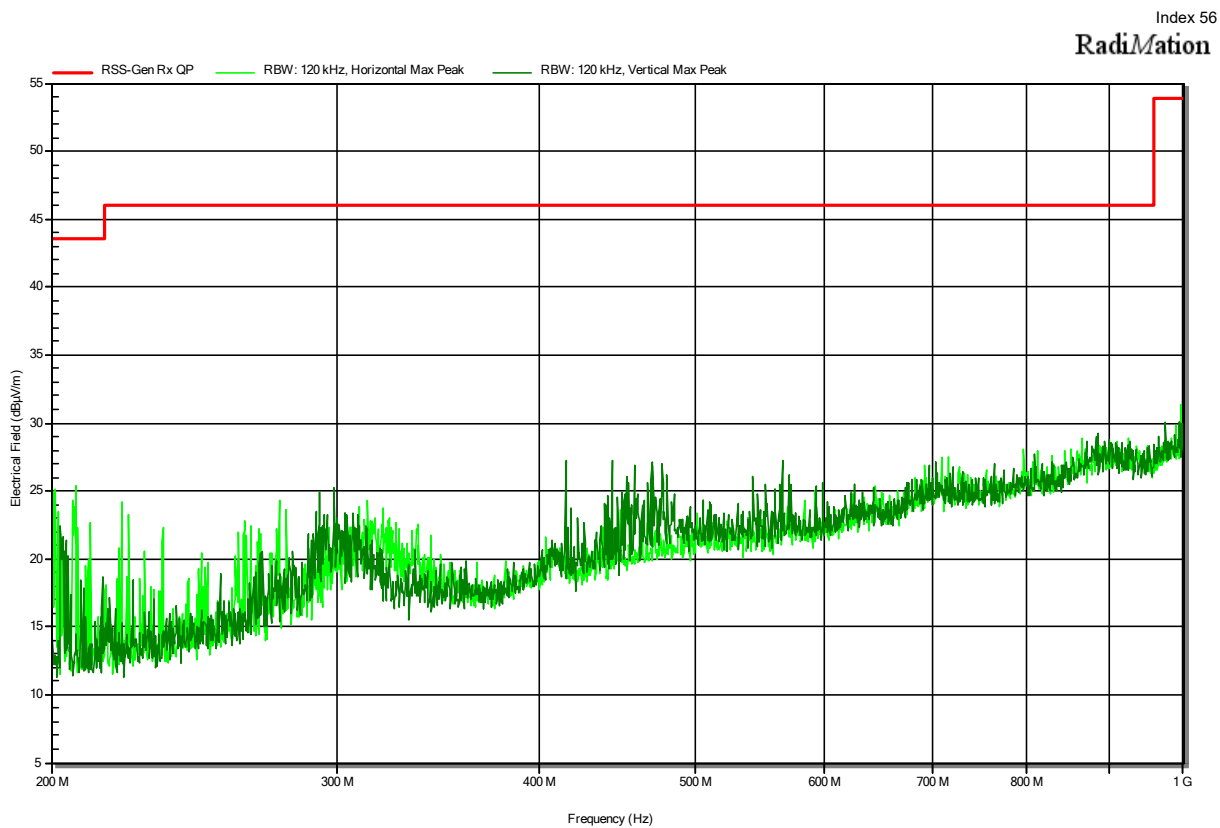
Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 VDC  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Rx; IEEE 802.11g, 2437 MHz, EUT horizontal  
 Test Date: 2022-08-29  
 Note:



| Frequency   | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Polarization |
|-------------|------------|------------------|-----------------------|-------------------|--------------|
| 79.3042 MHz | 15 dBµV/m  | 40 dBµV/m        | -25 dB                | Pass              | Vertical     |

## Radiated Spurious Emissions according to RSS-247 Issue 2, RSS-Gen

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 VDC  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Rx; IEEE 802.11g, 2437 MHz, EUT horizontal  
 Test Date: 2022-08-29  
 Note:

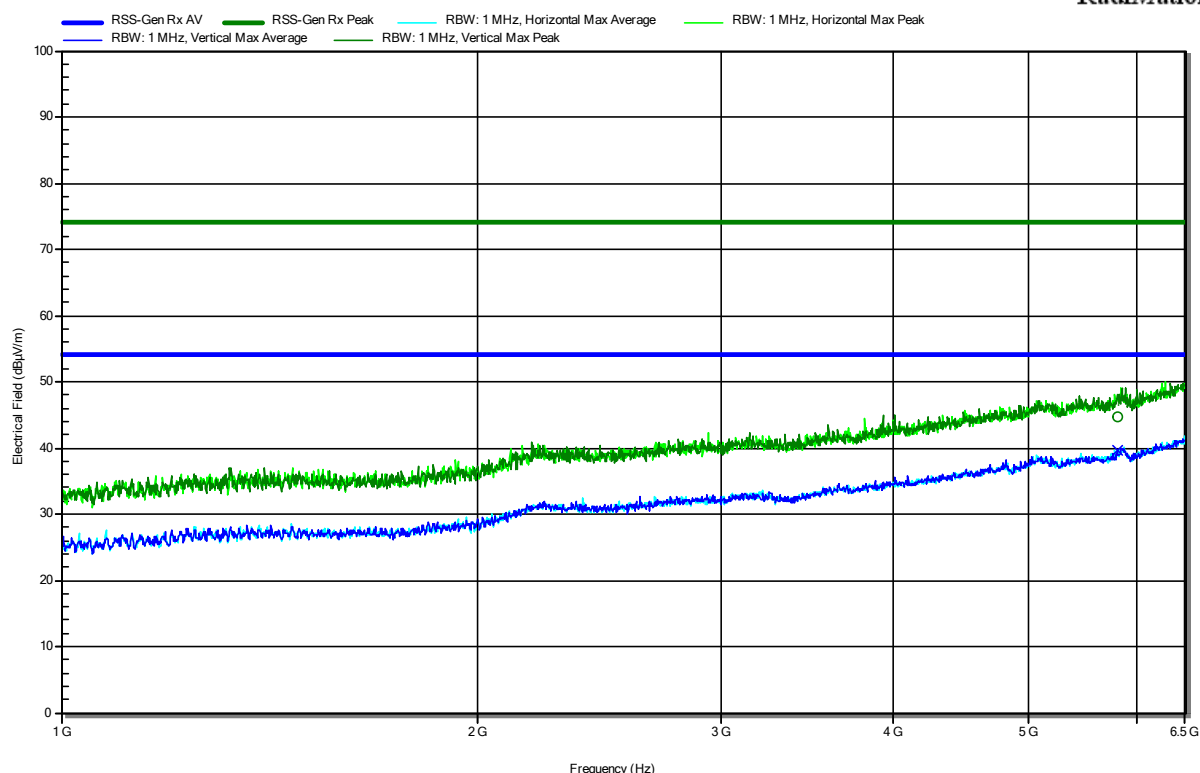


## Radiated Spurious Emissions according to RSS-247 Issue 2, RSS-Gen

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck BBHA 9120D  
 Measurement distance: 3 m  
 Mode: Rx; IEEE 802.11g, 2437 MHz, EUT horizontal  
 Test Date: 2022-08-29  
 Note:

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**RadiMation**



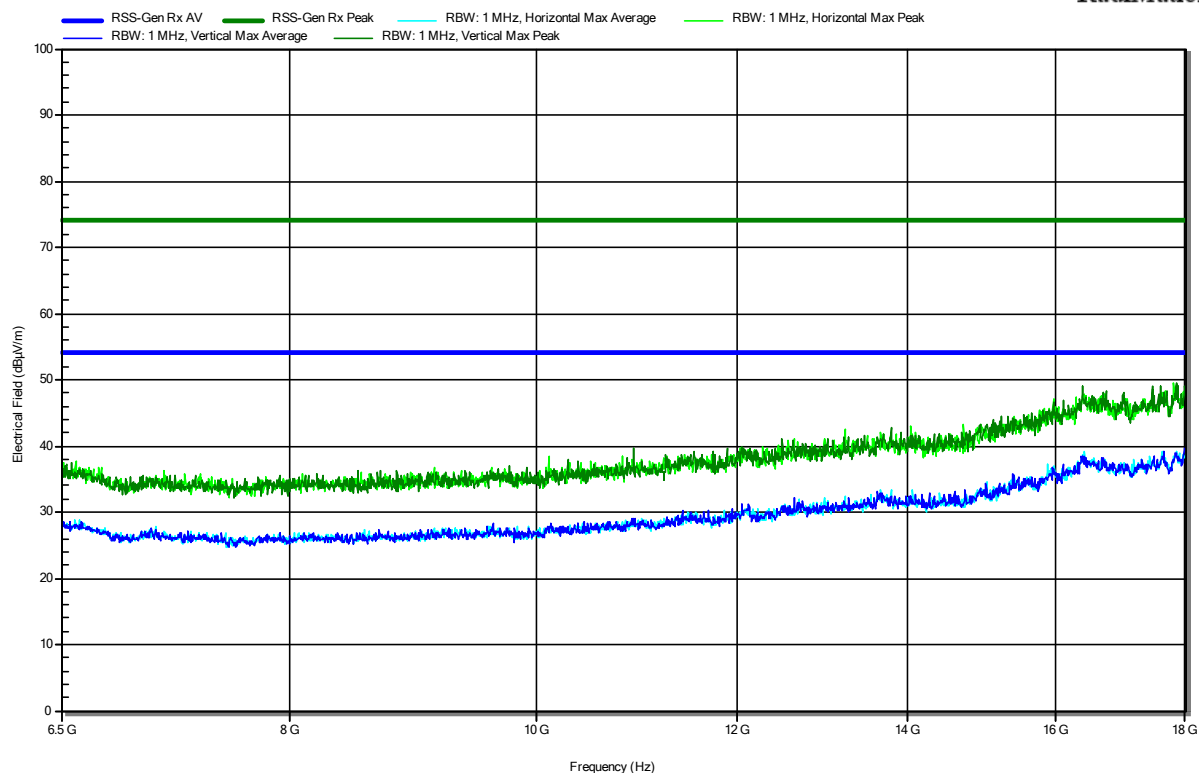
|           |              |               |                    |                |              |
|-----------|--------------|---------------|--------------------|----------------|--------------|
| Frequency | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
| 5.804 GHz | 44.81 dBµV/m | 74 dBµV/m     | -29.19 dB          | Pass           | Vertical     |
| Frequency | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 5.804 GHz | 39.57 dBµV/m | 53.98 dBµV/m  | -14.41 dB          | Pass           | Vertical     |

## Radiated Spurious Emissions according to RSS-247 Issue 2, RSS-Gen

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W106  
 Test Sample ID: 40680  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Voigt  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 VDC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Rx; IEEE 802.11g, 2437 MHz, EUT horizontal  
 Test Date: 2022-08-29  
 Note:

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**RadiMation**



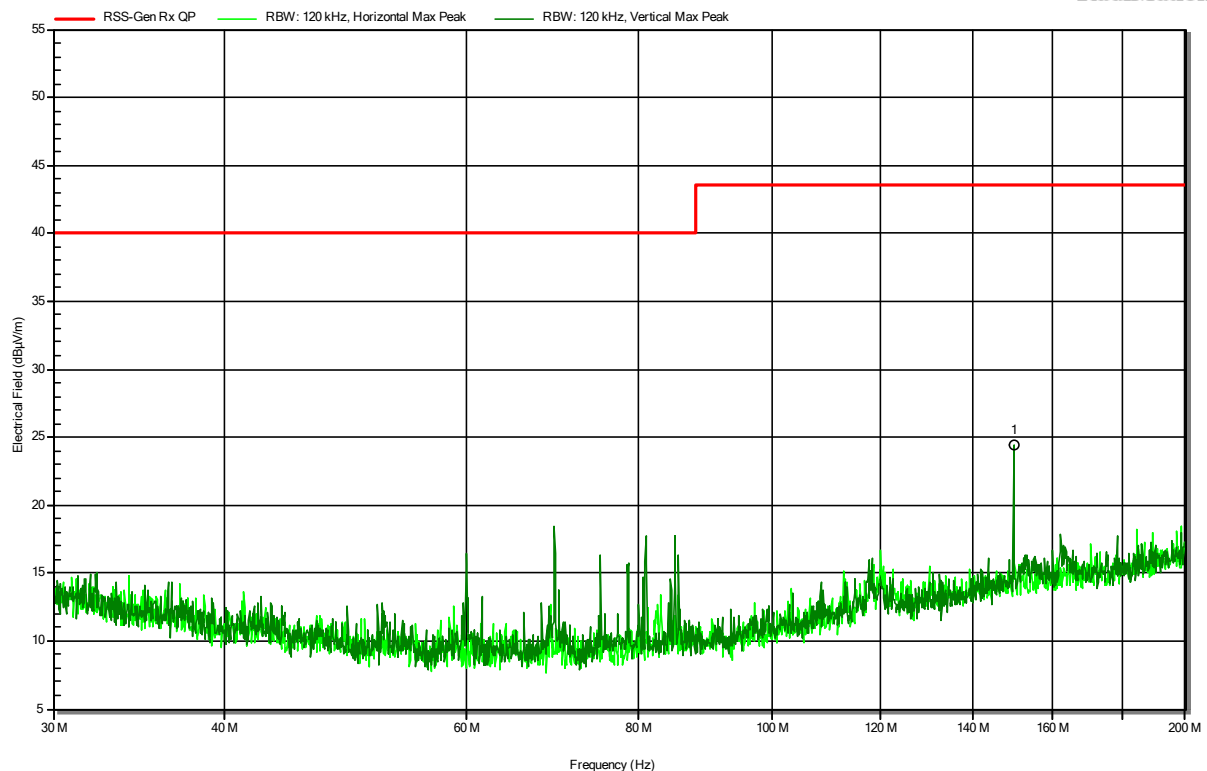
## ANNEX F Receiver spurious emissions (Tested variant 2)

### Radiated Spurious Emissions according to RSS-247, RSS-Gen Issue 5

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 V DC  
 Antenna: Rohde & Schwarz HK 116  
 Measurement distance: 3 m  
 Mode: Rx; IEEE802.11g; CH 6\_2437 MHz; BW20  
 Test Date: 2022-11-11  
 Note: With external antenna (PN PRO-IS-237)

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RadiMation



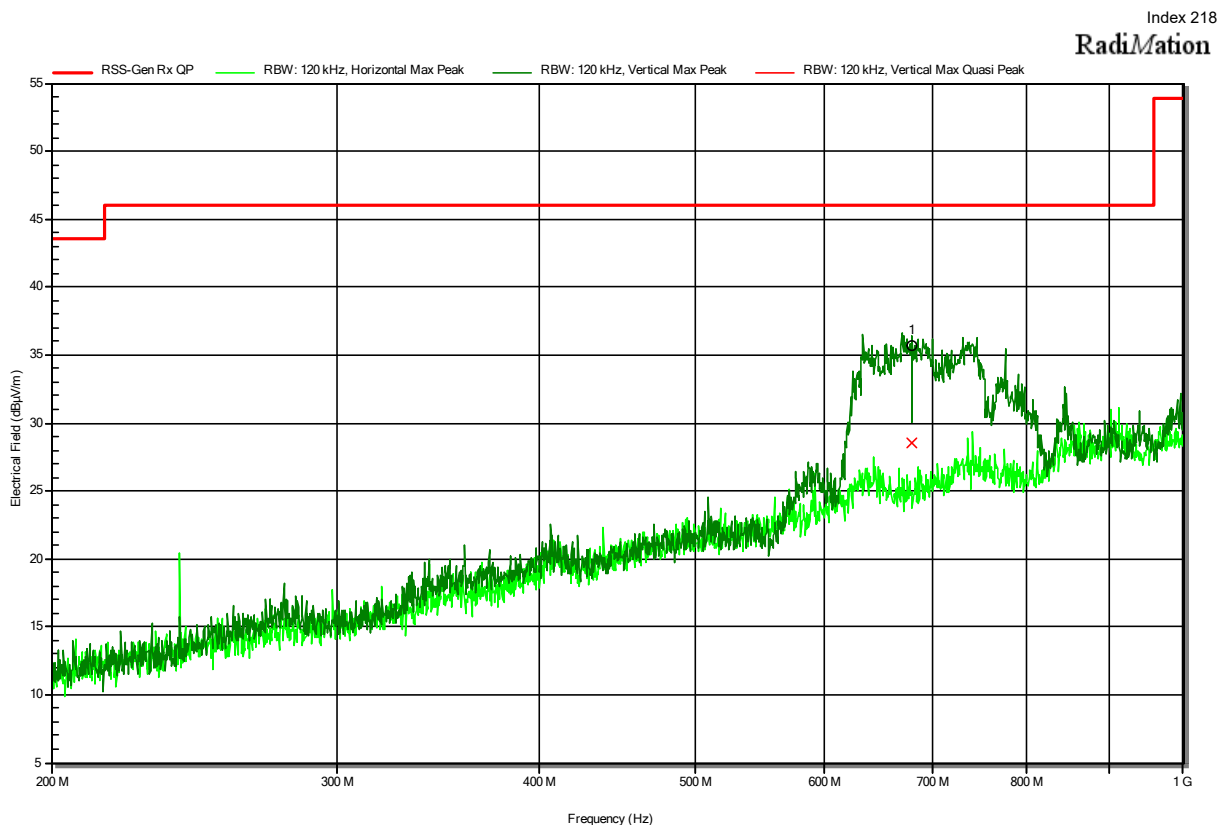
| Frequency    | Peak        | Peak Limit  | Peak Difference | Peak Status | Polarization |
|--------------|-------------|-------------|-----------------|-------------|--------------|
| 149.9903 MHz | 24.4 dBµV/m | 43.5 dBµV/m | -19.13 dB       | Pass        | Vertical     |

Test Report No.: G0M-2205-1454-TFC247WF-V02

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

## Radiated Spurious Emissions according to RSS-247, RSS-Gen Issue 5

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 V DC  
 Antenna: Rohde & Schwarz HL 223  
 Measurement distance: 3 m  
 Mode: Rx; IEEE802.11g; CH 6\_2437 MHz; BW20  
 Test Date: 2022-11-11  
 Note: With external antenna (PN PRO-IS-237)



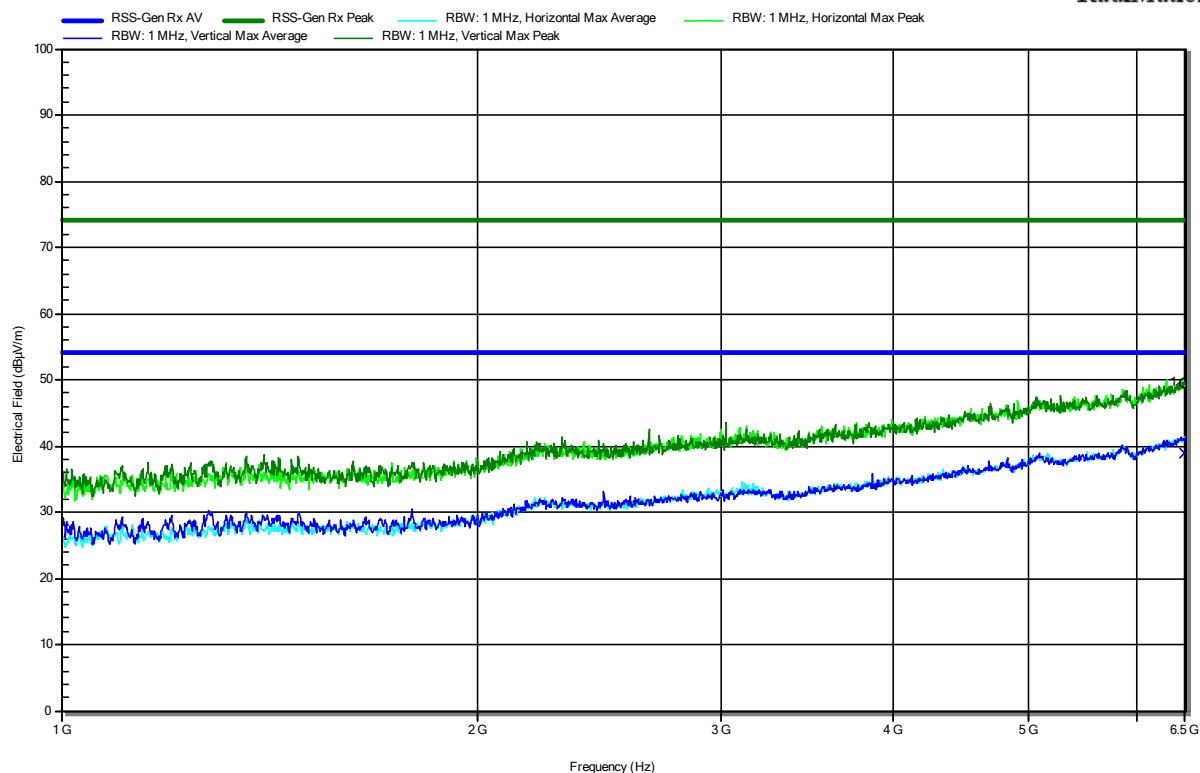
|            |             |                  |                       |                   |              |
|------------|-------------|------------------|-----------------------|-------------------|--------------|
| Frequency  | Peak        | Peak Limit       | Peak Difference       | Peak Status       | Polarization |
| 679.84 MHz | 35.7 dBµV/m | 46 dBµV/m        | -10.3 dB              | Pass              | Vertical     |
| Frequency  | Quasi-Peak  | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Polarization |
| 679.84 MHz | 28.5 dBµV/m | 46 dBµV/m        | -17.51 dB             | Pass              | Vertical     |

## Radiated Spurious Emissions according to RSS-247, RSS-Gen Issue 5

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck BBHA 9120D  
 Measurement distance: 3 m  
 Mode: Rx; IEEE802.11g; CH 6\_2437 MHz; BW20  
 Test Date: 2022-11-11  
 Note: With external antenna (PN PRO-IS-237)

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**RadiMation**



|           |              |               |                    |                |              |
|-----------|--------------|---------------|--------------------|----------------|--------------|
| Frequency | Peak         | Peak Limit    | Peak Difference    | Peak Status    | Polarization |
| 6.494 GHz | 49.61 dBµV/m | 74 dBµV/m     | -24.39 dB          | Pass           | Vertical     |
| Frequency | Average      | Average Limit | Average Difference | Average Status | Polarization |
| 6.494 GHz | 38.82 dBµV/m | 53.98 dBµV/m  | -15.16 dB          | Pass           | Vertical     |

Test Report No.: G0M-2205-1454-TFC247WF-V02

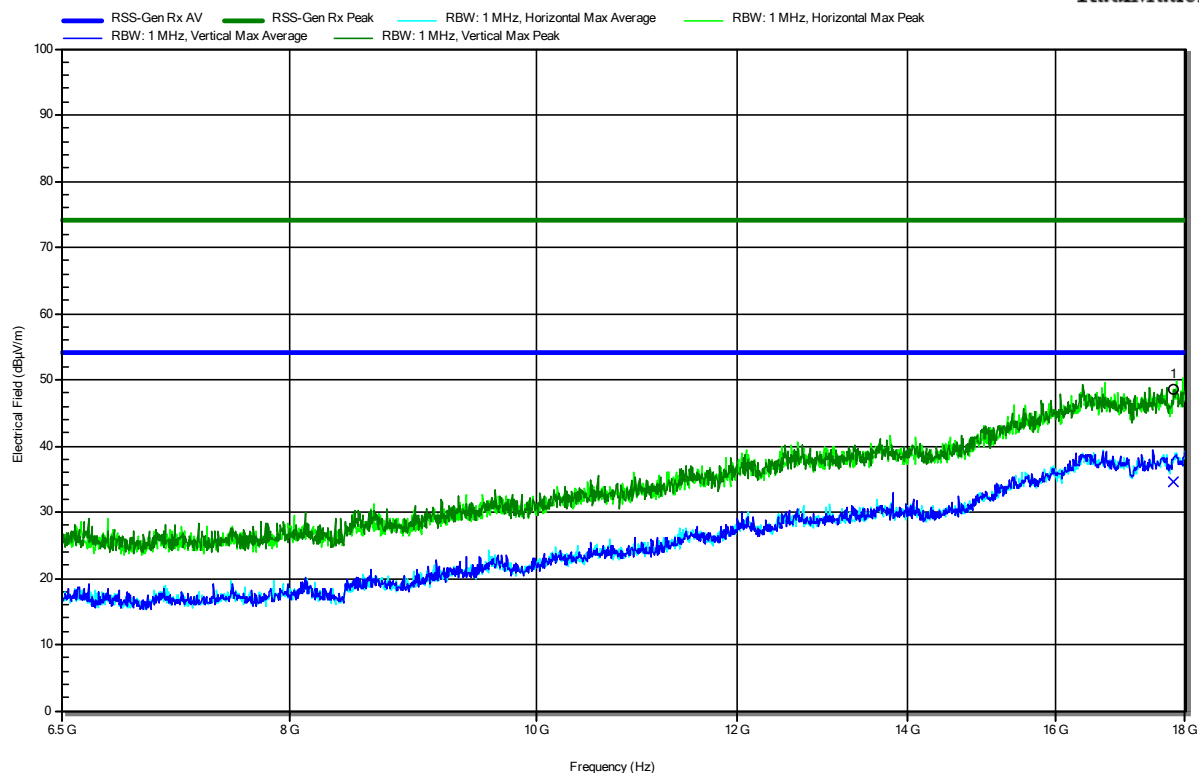
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Radiated Spurious Emissions according to RSS-247, RSS-Gen Issue 5

Project Number: G0M-2205-1454  
 Applicant: u-blox AG  
 Model Description: Stand-alone multiradio module  
 Model: NORA-W101  
 Test Sample ID: 40677  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Qawasmeh  
 Measurement software: RadiMation, version 2020.1.8  
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 V DC  
 Antenna: Schwarzbeck HWRD 650  
 Measurement distance: 3 m  
 Mode: Rx; IEEE802.11g; CH 6\_2437 MHz; BW20  
 Test Date: 2022-11-11  
 Note: With external antenna (PN PRO-IS-237)

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**RadiMation**



|                         |                         |                               |                                 |                        |                          |
|-------------------------|-------------------------|-------------------------------|---------------------------------|------------------------|--------------------------|
| Frequency<br>17.812 GHz | Peak<br>48.51 dBµV/m    | Peak Limit<br>74 dBµV/m       | Peak Difference<br>-25.49 dB    | Peak Status<br>Pass    | Polarization<br>Vertical |
| Frequency<br>17.812 GHz | Average<br>34.54 dBµV/m | Average Limit<br>53.98 dBµV/m | Average Difference<br>-19.44 dB | Average Status<br>Pass | Polarization<br>Vertical |

== = END OF TEST REPORT == =

Test Report No.: G0M-2205-1454-TFC247WF-V02

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