



EUROFINS ETS PRODUCT SERVICE GMBH

TEST - REPORT

**FCC RULES PARTS 22H and 24E
IC RADIO STANDARDS RSS 132 and RSS 133
for UMTS**

Model Name: GI0322

Test report no.: G0M20806-1862-C-1



Certificate 1983.01



Eurofins ETS Product Service GmbH
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1 General information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

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OPERATOR.

26.06.2008 F. Walter



| | | | |
|------|---------------|------|-----------|
| Date | Eurofins-Lab. | Name | Signature |
|------|---------------|------|-----------|

Technical responsibility for area of testing:

26.06.2008 K. Damm



| | | | |
|------|----------|------|-----------|
| Date | Eurofins | Name | Signature |
|------|----------|------|-----------|

Test Report No.: G0M20806-1862-C-1

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

1.2 Testing laboratory

1.2.1 Location

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

1.2.2 Details of accreditation status

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

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

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

FCC FILED TEST LABORATORY
REG.-No. 96970

A2LA ACCREDITED TESTING LABORATORY
CERTIFICATE NO. 1983.01

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

INDUSTRY CANADA FILED TEST LABORATORY
REG. NO. IC 3470

1.3 Details of approval holder

| | |
|-----------|-----------------------|
| Name | : Option NV |
| Street | : Gaston Geenslaan 14 |
| Town | : 3001 Leuven |
| Country | : Belgium |
| Telephone | : +32 16 311694 |
| Fax | : +32 16 207 164 |
| Contact | : Mr. Thomas Gulinck |
| E-Mail | : +32 16 311694 |

1.4 Application details

Date of receipt of application : 21.06.2008
 Date of receipt of test item : 21.06.2008
 Date of test : 21.06.2008 – 26.06.2008

1.5 Test item

Description of test item : USB Wireless Modem
 GSM / GPRS / EGPRS 850 / 900 / 1800 / 1900,
 UMTS FDD I / II / V, HSUPA, HSDPA

Type identification : GI0322
 Serial number : FW4286900V
 Photos : See annex A.

Technical data

FDD V

Frequency range Tx – Cellular 850 : 826.4 - 846.6 MHz
 Frequency range Rx - Cellular 850 : 871.4 - 891.6 MHz

FDD II

Frequency range Tx – PCS 1900 : 1852.4 - 1907.6 MHz
 Frequency range Rx – PCS 1900 : 1932.4 - 1987.6 MHz

Antenna Type : internal antenna

| | | |
|--------------------|--------------------|------------------------------|
| Antenna Gain | : 1 dBi | <u>(FDD II)</u> 0 dBi |
| Power supply | : 5.0 V DC USB | 120 V AC/DC Adapter (Laptop) |
| Operating mode | : duplex | |
| Type of modulation | : WCDMA (UTRA-FDD) | |
| Emission | : F9W | |

Manufacturer: (if applicable)

Name :
 Street :
 Town :
 Country :

1.6 Test standards

Technical standard : FCC Parts: 22H, 24E, 2, 15
IC Standards: RSS 132, RSS 133

Additional information : Because of using the UMTS 850 as an alternative technology in 850 MHz band, not all test cases of FCC Part 22 are required.

This test report covers the test which are related to UMTS radio technology in operating bands II and V only.

Operation in others bands or with other radio technologies are subject of other independent test reports.

2 Technical test

2.1 Summary of test results

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

or

The deviations as specified in 2.5 were ascertained in the course of the tests performed.

2.2 Test environment

Temperature : 25 °C

Voltage : Unom: 5.0 V DC

Relative humidity content : 20 ... 75 %

Air pressure : 86 ... 103 kPa

2.3 Test equipment utilized

| No. | Test equipment | Type | Manufacturer |
|----------|---|------------------|--------------|
| ETS 0014 | Log Periodical Antenna | HL 025 | R & S |
| ETS 0059 | Kikusui amplifier | PCR 2000L | Keytek/ EMC |
| ETS 0085 | Shielded room | SR 1 | Frankonia |
| ETS 0251 | Climatic chamber | VT 4004 | Vötsch |
| ETS 0281 | Spectrum Analyzer | FSM | R & S |
| ETS 0288 | Artificial mains | ESH2-Z5 | R & S |
| ETS 0294 | Biconical antenna | HK 116 | R & S |
| ETS 0295 | LPD antenna | HL 223 | R & S |
| ETS 0310 | Anechoic chamber | AC 3 | Frankonia |
| ETS 0375 | Vector Signal Gener. | SMIQ03B | R & S |
| ETS 0376 | Signal Generator | SMP22 | R & S |
| ETS 0378 | Advanced Signal Conditioning Unit | ASCU190 | R & S |
| ETS 0379 | Advanced Signal Conditioning Unit | ASCU180 | R & S |
| ETS 0380 | Advanced Signal Conditioning Unit | ASCU900 | R & S |
| ETS 0382 | Vector Signal Gener. | SMIQ03B | R & S |
| ETS 0383 | Spectrum Analyzer | FSU26 | R & S |
| ETS 0384 | Main Frame Signal and Conditioning Unit | SSCU-GW | R & S |
| ETS 0385 | Protocol Slave | CRTU-RU (CRTU-G) | R & S |
| ETS 0386 | Power meter | NRVD | R & S |
| ETS 0390 | System PC PC3600 | TS-PC36 | R & S |
| ETS 0394 | Advanced Signal Conditioning Unit | ASCUFDD-WCDMA | R & S |
| ETS 0413 | Signal Analyzer | FSIQ 26 | R & S |
| ETS 0416 | Power Supply | EX752M | TTi |
| ETS 0473 | GSM / UMTS System Simulator | TS 8950 | R&S |
| ETS 0476 | EMI Test receiver | ESCS 30 | R&S |
| ETS 0484 | Radio Communication Tester | CMU 200 | R&S |
| LU001 | | CMU | |

2.4 General test procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2003 5.2 using a 50 μ H LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2003 6.4 using a spectrum analyzer. The resolution bandwidth of the spectrum analyzer was 100 kHz for measurements below 1 GHz and RBW 1 MHz was used above 1 GHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

FORMULA OF CONVERSION FACTORS for Field strength: The Field Strength at 3 m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB μ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

| | |
|-------------|--|
| Freq. (MHz) | METER READING + ACF + CABLE LOSS (to the receiver) = FS |
| 33 | 20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @ 3 m |

ANSI STANDARD C63.4-2003 6.2.1 MEASUREMENT PROCEDURES: The UUT was placed on a table 80 cm high and with dimensions of 1 m by 1.5 m (non metallic table). The UUT was placed in the center of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to at least 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings. Measurements were made by Eurofins ETS Product Service GmbH at the registered open field test site located at Storkower Str. 38c, 15526 Reichenwalde, Germany.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1 m to 4 m. The antenna was placed in both the horizontal and vertical planes.

ANTENNA & GROUND:

This unit uses internal antennas.

2.5 Test results

 1st test

 test after modification

 production test

| SECT. | TEST CASE | FCC 47 CFR PART | IC RSS | Required | Test passed | Test failed |
|-------|--|----------------------------------|----------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 3 | <i>TRANSMITTER PARAMETERS</i> | | | | | |
| 3.1 | RF power output conducted | 2.1046 22.913(a) 24.232(c) | Gen §4.6 132 §4.4 133 §4.3 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3.2 | RF power output radiated (ERP, EIRP) | 22.913(a) 24.232(c) | 132 §4.4 133 §4.3 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3.3 | Occupied bandwidth | 2.1049 | Gen §4.4.1 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3.3 | Emission bandwidth | 22.917(b) 24.238(b) | - | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3.4 | Frequency stability | 2.1055 22.355 24.235 | Gen §4.5 132 §4.3 133 §4.2 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3.5 | Spurious emission conducted (antenna terminal) | 2.1051 22.917 24.238 | Gen §4.7 132 §4.5 133 §4.4 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.6 | Spurious emission radiated | 2.1053 22.917 24.238 | Gen §4.7 132 §4.5 133 §4.4 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3.7 | Block edge compliance | 22.917(b) 24.238(b) | 132 §4.5.1.1 133 §4.4 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3.8 | AC power line conducted emissions | 15.207 | - | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4 | <i>RECEIVER PARAMETERS</i> | | | | | |
| 4.1 | Radiated emissions | 2.1053 15.109 | Gen 4.8 132 §4.6 133 §4.5 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

3 Transmitter parameters

3.1 RF power output, conducted

Reference

| | Cellular telephone 850 MHz | PCS 1900 MHz |
|------------|--|--|
| FCC | CFR part 22.913(a), 2.1046 | CFR part 24.232(c), 2.1046 |
| IC | RSS-132 Issue 2, §4.4 RSS-Gen Issue 1, §4.6 | RSS-133 Issue 3, §4.3 RSS-Gen Issue 1, §4.6 |

Method of measurement

The transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer. Transmitter output was read off the spectrum analyzer in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the spectrum analyzer reading.

An HP power meter was also used to measure the RF power.

Tests were performed at three frequencies (low, middle, and high channels) and on all power levels, which can be set-up on the transmitters.

Test results

| | Frequency channel | Peak output power | AVG output power |
|--|-------------------|-------------------|------------------|
| Cellular telephone 850 MHz UMTS | 4133 | 22.27 dBm | -- |
| | 4175 | 22.18 dBm | -- |
| | 4232 | 22.32 dBm | -- |
| PCS 1900 MHz UMTS | 9263 | 21.46 dBm | -- |
| | 9400 | 21.81 dBm | -- |
| | 9537 | 20.73 dBm | -- |

See attached diagrams

Test equipment: ETS 0413, ETS 0416, ETS 0484

3.2 RF power output, radiated

Reference

| | Cellular telephone 850 MHz | PCS 1900 MHz |
|-----|----------------------------|-----------------------|
| FCC | CFR part 22.913(a) | CFR part 24.232(c) |
| IC | RSS-132 Issue 2, §4.4 | RSS-133 Issue 3, §4.3 |

Method of measurement

The EUT was positioned on a non-conductive turntable, 0.8 m above the ground plane on an open test site. The radiated emission at the fundamental frequency was measured at 3m distance with a test antenna and spectrum analyzer.

Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

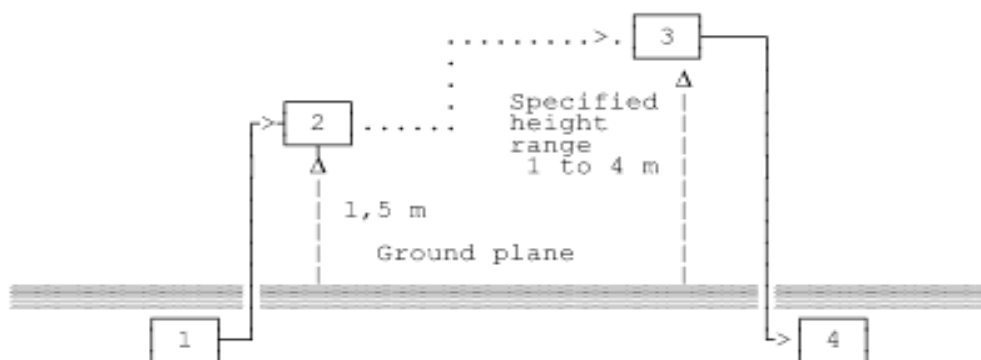
ERP in frequency band 826.6 - 846.4 MHz, and EIRP in frequency band 1852.6 - 1907.4 MHz were measured using a substitution method. The EUT was replaced by half-wave dipole (operating band V) or horn antenna (operating band II) connected to a signal generator.

Substitution RF power measurement at ETS Product Service AG

General:

The applied substitution method follows ANSI/TIA/EIA-603, ANSI/TIA/EIA-102.CAAA or the appropriate ETSI rules respectively.

The actual signal generated by the EUT can be determined by means of a substitution measurement in which a known signal source replaces the device to be measured.



- 1) Signal generator;
- 2) Substitution antenna;
- 3) Test antenna;
- 4) Spectrum analyzer or selective voltmeter.

The substitution antenna replaces the transmitter antenna at the same position and in vertical polarization. The frequency of the signal generator shall be adjusted to the measurement frequency. The test antenna shall be raised or lowered, if necessary, to ensure that the maximum signal is still received. The input signal to the substitution antenna shall be adjusted in level until an equal or a known related level to that detected from the transmitter is obtained in the measurement receiver. If a fully anechoic chamber is used as test site in order to provide free space conditions there is no need to change the height of the antenna. The measurement will be repeated in horizontal position.

Calibration:

In order to make this kind of measurement more effective and to avoid subjective measurement faults Eurofins has installed automatic computer controlled measurement procedures. With the above described substitution method a test site is calibrated over the full frequency range which is used in suitable frequency steps. For a certain power level on the substitution antenna the received power over the whole frequency range is documented. All necessary antenna gains, cable losses, filter losses and amplifications of preamplifiers are taken in consideration. The summary of this calibration measurement performs a transducer factor that is related to the considered test site and a certain measurement distance. Differences of the radiated power levels of different test samples are determined by internal attenuation of the measurement receiver. The proper function of such test site will be maintained by short term plausibility checks and periodical re-calibration.

Testing:

The test sample is put on the table at the defined position and the measurement receiver receives and documents the radiated power. On test sites with ground plane the measurement antenna will be lowered and raised to maximum values at significant frequencies. For peak power measurements the sample is turned by the turntable over 360 degree in order to find the direction with the maximum radiation or to document the max reading with the MAXHOLD function during the rotation.

Limits

| | Cellular telephone 850 MHz | PCS 1900 MHz |
|------------|-----------------------------------|------------------------|
| FCC | 38,5 dBm (7 Watts), ERP | 33 dBm (2 Watts), EIRP |
| IC | 38 dBm (6.3 Watts), ERP | 33 dBm (2 Watts), EIRP |

Test Results

| | Voltage | Frequency channel | Radiated power ERP | Radiated power EIRP |
|--|-----------|-------------------|--------------------|---------------------|
| Cellular telephone 850 MHz UMTS | U_{nom} | 4133 | 23.14 dBm | -- |
| | | 4175 | 21.34 dBm | -- |
| | | 4232 | 24.11 dBm | -- |
| PCS 1900 MHz UMTS | U_{nom} | 9263 | -- | 21.34 dBm |
| | | 9400 | -- | 19.25 dBm |
| | | 9537 | -- | 19.97 dBm |

See attached diagrams

Test equipment: ETS 0014, ETS 0281, ETS 0295, ETS 0310, ETS 0416, ETS 0484

3.3 Occupied bandwidth, emission bandwidth

Reference

| | Cellular telephone 850 MHz | PCS 1900 MHz |
|------------|----------------------------|----------------------------|
| FCC | CFR part 22.917(b), 2.1049 | CFR part 24.238(b), 2.1049 |
| IC | RSS-Gen Issue 1, §4.4.1 | RSS-Gen Issue 1, §4.4.1 |

Method of measurement

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The RF output of the transceiver was connected to the input of the spectrum analyzer through sufficient attenuation.

Occupied Bandwidth was measured with a occupied bandwidth function of the analyzer.

To find the Emission Bandwidth (-26 dB) the delta markers were set -26 dB below transmitter power.

Test results

| | Frequency channel | Occupied bandwidth | Emission bandwidth |
|--|-------------------|--------------------|--------------------|
| Cellular telephone 850 MHz UMTS | 4133 | 4.168 MHz | 4.649 MHz |
| | 4175 | 4.168 MHz | 4.669 MHz |
| | 4232 | 4.188 MHz | 4.689 MHz |
| PCS 1900 MHz UMTS | 9263 | 4.148 MHz | 4.649 MHz |
| | 9400 | 4.188 MHz | 4.669 MHz |
| | 9537 | 4.168 MHz | 4.649 MHz |

See attached diagrams

Test equipment: ETS 0413, ETS 0416, ETS 0484

3.4 Frequency stability

Reference

| | Cellular telephone 850 MHz | PCS 1900 MHz |
|------------|--|--|
| FCC | CFR part 22.355, 2.1055 | CFR part 24.235, 2.1055 |
| IC | RSS-132 Issue 2, §4.3 RSS-Gen Issue 1, §4.5 | RSS-133 Issue 3, §4.2 RSS-Gen Issue 1, §4.5 |

Method of measurement

The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feed through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable, exited the chamber through an opening made for that purpose.

After the temperature stabilized the frequency output was recorded from the counter.

Limits

| | Cellular telephone 850 MHz | PCS 1900 MHz |
|------------|-----------------------------------|---|
| FCC | ± 2.5 ppm | Must stay within the authorized frequency block |
| IC | ± 2.5 ppm | ± 2.5 ppm |

Test results
Frequency stability vs. temperature

| | $\vartheta / ^\circ\text{C}$ | Frequency error (Hz) | Frequency error (ppm) |
|--|------------------------------|----------------------|-----------------------|
| Cellular telephone 850 MHz UMTS | +50,00 | -11 | -0,013174 |
| | +40,00 | -13 | -0,015569 |
| | +30,00 | -9 | -0,010778 |
| | +20,00 | -13 | -0,015569 |
| | +10,00 | -10 | -0,011976 |
| | 0,00 | 11 | 0,013174 |
| | -10,00 | 10 | 0,011976 |
| | -20,00 | -11 | -0,013174 |
| -30,00 | -13 | -0,015569 | |

| | $\vartheta / ^\circ\text{C}$ | Frequency error (Hz) | Frequency error (ppm) |
|----------------------------------|------------------------------|----------------------|-----------------------|
| PCS 1900 MHz UMTS | +50,00 | -23 | -0,012234 |
| | +40,00 | -21 | -0,011170 |
| | +30,00 | -13 | -0,006915 |
| | +20,00 | -27 | -0,014362 |
| | +10,00 | -19 | -0,010106 |
| | 0,00 | -23 | -0,012234 |
| | -10,00 | -24 | -0,012766 |
| | -20,00 | -22 | -0,011702 |
| -30,00 | -27 | -0,014362 | |

Frequency stability vs. voltage

| | U_B / V | Frequency error (Hz) | Frequency error (ppm) |
|--|-----------|----------------------|-----------------------|
| Cellular telephone 850 MHz UMTS | 5,80 | -10 | -0,011976 |
| | 5,60 | -11 | -0,013174 |
| | 5,40 | -11 | -0,013174 |
| | 5,20 | -9 | -0,010778 |
| | 5,00 | 10 | 0,011976 |
| | 4,80 | -9 | -0,010778 |
| | 4,60 | -8 | -0,009581 |
| | 4,40 | -9 | -0,010778 |
| 4,20 | -14 | -0,016766 | |

| | U_B / V | Frequency error (Hz) | Frequency error (ppm) |
|----------------------------------|-----------|----------------------|-----------------------|
| PCS 1900 MHz UMTS | 5,80 | -21 | -0,011170 |
| | 5,60 | -25 | -0,013298 |
| | 5,40 | -20 | -0,010638 |
| | 5,20 | -22 | -0,011702 |
| | 5,00 | -27 | -0,014362 |
| | 4,80 | -25 | -0,013298 |
| | 4,60 | -23 | -0,012234 |
| | 4,40 | -26 | -0,013830 |
| 4,20 | -25 | -0,013298 | |

Test equipment: ETS 0251, ETS 0416, ETS 0484

3.5 Spurious emission conducted (antenna terminal)

Reference

| | Cellular Telephone 850 MHz | PCS 1900 MHz |
|------------|--|--|
| FCC | CFR part 22.917, 2.1051 | CFR part 24.238, 2.1051 |
| IC | RSS-132 Issue 2, §4.5 RSS-Gen Issue 1, §4.7 | RSS-133 Issue 3, §4.4 RSS-Gen Issue 1, §4.7 |

Method of measurement

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission. The magnitude of spurious emission which are attenuated more than 20 dB below the permissible value need not be specified. Tests are performed for lowest, middle and highest transmitter block frequency.

Limits

| | Cellular telephone 850 MHz | PCS 1900 MHz |
|------------|---------------------------------------|---------------------------------------|
| FCC | $P_c - (43 + 10 \log (P) \text{ dB})$ | $P_c - (43 + 10 \log (P) \text{ dB})$ |
| IC | $P_c - (43 + 10 \log (P) \text{ dB})$ | $P_c - (43 + 10 \log (P) \text{ dB})$ |

Test results

| | Harmonic | TCX 4133 [MHz] | Level [dBm] | TCX 4175 [MHz] | Level [dBm] | TCX 4232 [MHz] | Level [dBm] |
|--|----------|----------------------|----------------|----------------------|----------------|----------------------|----------------|
| Cellular telephone 850 MHz UMTS | 1 | -- | -- | -- | -- | -- | -- |
| | 2 | -- | -- | -- | -- | -- | -- |
| | 3 | -- | -- | -- | -- | -- | -- |
| | 4 | -- | -- | -- | -- | -- | -- |
| | 5 | -- | -- | -- | -- | -- | -- |
| | 6 | -- | -- | -- | -- | -- | -- |
| | 7 | -- | -- | -- | -- | -- | -- |
| | 8 | -- | -- | -- | -- | -- | -- |
| | 9 | -- | -- | -- | -- | -- | -- |
| | 10 | -- | -- | -- | -- | -- | -- |

| | Harmonic | TCX 9263 [MHz] | Level [dBm] | TCX 9400 [MHz] | Level [dBm] | TCX 9537 [MHz] | Level [dBm] |
|---------------------------------|----------|----------------------|----------------|----------------------|----------------|----------------------|----------------|
| PCS 1900 MH UMTS | 1 | -- | -- | -- | -- | -- | -- |
| | 2 | -- | -- | -- | -- | -- | -- |
| | 3 | -- | -- | -- | -- | -- | -- |
| | 4 | -- | -- | -- | -- | -- | -- |
| | 5 | -- | -- | -- | -- | -- | -- |
| | 6 | -- | -- | -- | -- | -- | -- |
| | 7 | -- | -- | -- | -- | -- | -- |
| | 8 | -- | -- | -- | -- | -- | -- |
| | 9 | -- | -- | -- | -- | -- | -- |
| | 10 | -- | -- | -- | -- | -- | -- |

Not required.

Test equipment: ETS 0375, ETS 0376, ETS 0377, ETS 0378, ETS 0379, ETS 0380, ETS 0382, ETS 0383, ETS 0384, ETS 0385, ETS 0386, ETS 0390, ETS 0394, ETS 0473

3.6 Spurious emission radiated

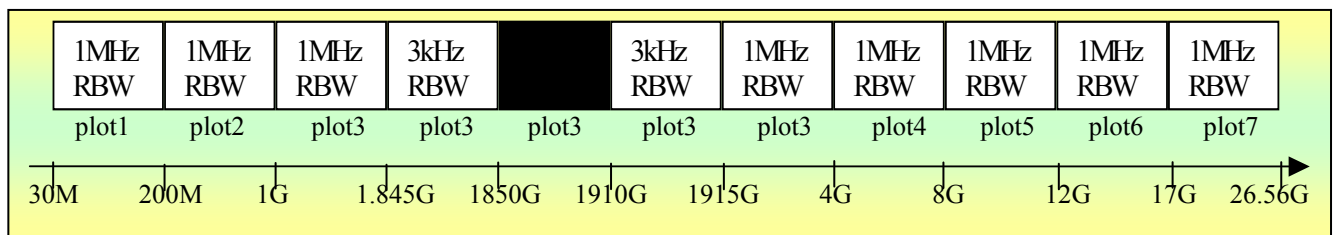
Reference

| | Cellular telephone 850 MHz | PCS 1900 MHz |
|------------|--|--|
| FCC | CFR part 22.917, 2.1053 | CFR part 24.238, 2.1053 |
| IC | RSS-132 Issue 2, §4.5 RSS-Gen Issue 1, §4.7 | RSS-133 Issue 3, §4.4 RSS-Gen Issue 1, §4.7 |

Method of measurement

The EUT was positioned on a non-conductive turntable, 0.8m above the ground plane. The radiated emission at the fundamental frequency was measured at 3 m distance with a test antenna and spectrum analyzer.

Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.



ERP was measured using a substitution method. The EUT was replaced by horn antenna connected to a signal generator.

The frequency range up to tenth harmonic was investigated.

The tests of spurious radiated emission have been carried out with the EKS-Software from Rohde & Schwarz.

The analyzer gives automatic the measurements of spectral plots to the EKS software.

In the 1st 5 MHz band outside the band edge nearest the channel of interest a 3 kHz res. BW is used. The measurements from 30 MHz to 1845 GHz and 1915 GHz to 26.56 GHz were performed with a measurement bandwidth of 1 MHz.

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.
In the Table being listed the critical peak and average value an exhibit the compliance with the above calculated Limits.

Limits

| | Cellular telephone 850 MHz | PCS 1900 MHz |
|------------|---------------------------------------|---------------------------------------|
| FCC | $P_c - (43 + 10 \log (P) \text{ dB})$ | $P_c - (43 + 10 \log (P) \text{ dB})$ |
| IC | $P_c - (43 + 10 \log (P) \text{ dB})$ | $P_c - (43 + 10 \log (P) \text{ dB})$ |

UMTS FDDV
Summary table with radiated data of the test plots for Carrier Test Frequency 826,6 MHz

| Spectral Plot | Frequency Marker Indication [MHz] | Indication Power Level [dBm] | External Attn. [dB] | Worst Case Emission Level [dBm] | Compliance Limit [dBm] | Results |
|---------------|-----------------------------------|------------------------------|---------------------|---------------------------------|------------------------|---------|
| vertical | 176,834 | -63,95 | 0 | -63,95 | -13 | -50,95 |
| horizontal | 93,026 | -46,78 | 0 | -46,78 | -13 | -33,78 |
| vertical | 975,423 | -50,97 | 0 | -50,97 | -13 | -37,97 |
| horizontal | 861,607 | -32,04 | 0 | -32,04 | -13 | -19,04 |
| vertical | 3.988,000 | -44,61 | 0 | -44,61 | -13 | -31,61 |
| horizontal | 3.423,000 | -44,93 | 0 | -44,93 | -13 | -31,93 |
| vertical | 7.607,000 | -43,02 | 0 | -43,02 | -13 | -30,02 |
| horizontal | 6.982,000 | -38,85 | 0 | -38,85 | -13 | -25,85 |
| vertical | 11.158,000 | -37,69 | 0 | -37,69 | -13 | -24,69 |
| horizontal | 11.695,000 | -35,81 | 0 | -35,81 | -13 | -22,81 |

Summary table with radiated data of the test plots for Carrier Test Frequency 835 MHz

| Spectral Plot | Frequency Marker Indication [MHz] | Indication Power Level [dBm] | External Attn.[dB] | Worst Case Emission Level [dBm] | Compliance Limit [dBm] | Results |
|---------------|-----------------------------------|------------------------------|--------------------|---------------------------------|------------------------|---------|
| vertical | 182,966 | -63,76 | 0 | -63,76 | -13 | -50,76 |
| horizontal | 94,389 | -46,19 | 0 | -46,19 | -13 | -33,19 |
| vertical | 979,812 | -51,06 | 0 | -51,06 | -13 | -38,06 |
| horizontal | 957,218 | -32,04 | 0 | -32,04 | -13 | -19,04 |
| vertical | 3.988,000 | -43,96 | 0 | -43,96 | -13 | -30,96 |
| horizontal | 3.717,000 | -45,93 | 0 | -45,93 | -13 | -32,93 |
| vertical | 7.463,000 | -41,99 | 0 | -41,99 | -13 | -28,99 |
| horizontal | 7.583,000 | -39,92 | 0 | -39,92 | -13 | -26,92 |
| vertical | 11.615,000 | -37,95 | 0 | -37,95 | -13 | -24,95 |
| horizontal | 11.591,000 | -35,51 | 0 | -35,51 | -13 | -22,51 |

Summary table with radiated data of the test plots for Carrier Test Frequency 846,4 MHz

| Spectral Plot | Frequency Marker Indication [MHz] | Indication Power Level [dBm] | External Attn.[dB] | Worst Case Emission Level [dBm] | Compliance Limit [dBm] | Results |
|---------------|-----------------------------------|------------------------------|--------------------|---------------------------------|------------------------|---------|
| vertical | 174,790 | -64,28 | 0 | -64,28 | -13 | -51,28 |
| horizontal | 189,098 | -46,6 | 0 | -46,6 | -13 | -33,6 |
| vertical | 987,419 | -50,9 | 0 | -50,9 | -13 | -37,9 |
| horizontal | 867,166 | -31,98 | 0 | -31,98 | -13 | -18,98 |
| vertical | 3.519,000 | -45,11 | 0 | -45,11 | -13 | -32,11 |
| horizontal | 2.533,000 | -45,24 | 0 | -45,24 | -13 | -32,24 |
| vertical | 5.475,000 | -32,09 | 0 | -32,09 | -13 | -19,09 |
| horizontal | 6.974,000 | -39,56 | 0 | -39,56 | -13 | -26,56 |
| vertical | 11.607,000 | -37,93 | 0 | -37,93 | -13 | -24,93 |
| horizontal | 11.655,000 | -35,39 | 0 | -35,39 | -13 | -22,39 |

UMTS FDD II
Summary table with radiated data of the test plots for Carrier Test Frequency 1852.6 MHz

| Spectral Plot | Frequency Marker Indication [MHz] | Indication Power Level [dBm] | External Attn. [dB] | Worst Case Emission Level [dBm] | Compliance Limit [dBm] | Results |
|---------------|-----------------------------------|------------------------------|---------------------|---------------------------------|------------------------|---------|
| vertical | 180,240 | -64,19 | 0 | -64,19 | -13 | -51,19 |
| horizontal | 79,399 | -64,24 | 0 | -64,24 | -13 | -51,24 |
| vertical | 985,571 | -51,66 | 0 | -51,66 | -13 | -38,66 |
| horizontal | 865,331 | -50,7 | 0 | -50,7 | -13 | -37,7 |
| vertical | 3.574,000 | -27,36 | 0 | -27,36 | -13 | -14,36 |
| horizontal | 3.904,000 | -27,9 | 0 | -27,9 | -13 | -14,9 |
| vertical | 7.567,000 | -42,33 | 0 | -42,33 | -13 | -29,33 |
| horizontal | 7.663,000 | -42,84 | 0 | -42,84 | -13 | -29,84 |
| vertical | 11.054,000 | -37,85 | 0 | -37,85 | -13 | -24,85 |
| horizontal | 11.655,000 | -37,41 | 0 | -37,41 | -13 | -24,41 |
| vertical | 17.723,000 | -31,54 | 0 | -31,54 | -13 | -18,54 |
| horizontal | 17.976,000 | -31,6 | 0 | -31,6 | -13 | -18,6 |
| vertical | 18.000,000 | -30,38 | 0 | -30,38 | -13 | -17,38 |
| horizontal | 25.989,000 | -36,21 | 0 | -36,21 | -13 | -23,21 |

Summary table with radiated data of the test plots for Carrier Test Frequency 1880.0 MHz

| Spectral Plot | Frequency Marker Indication [MHz] | Indication Power Level [dBm] | External Attn.[dB] | Worst Case Emission Level [dBm] | Compliance Limit [dBm] | Results |
|---------------|-----------------------------------|------------------------------|--------------------|---------------------------------|------------------------|---------|
| vertical | 173,427 | -63,94 | 0 | -63,94 | -13 | -50,94 |
| horizontal | 95,411 | -63,87 | 0 | -63,87 | -13 | -50,87 |
| vertical | 977,555 | -52,24 | 0 | -52,24 | -13 | -39,24 |
| horizontal | 855,711 | -50,82 | 0 | -50,82 | -13 | -37,82 |
| vertical | 1.957,000 | -25,97 | 0 | -25,97 | -13 | -12,97 |
| horizontal | 3.858,000 | -28,03 | 0 | -28,03 | -13 | -15,03 |
| vertical | 7.559,000 | -42,75 | 0 | -42,75 | -13 | -29,75 |
| horizontal | 7.607,000 | -42,86 | 0 | -42,86 | -13 | -29,86 |
| vertical | 11.078,000 | -38,06 | 0 | -38,06 | -13 | -25,06 |
| horizontal | 11.687,000 | -37,66 | 0 | -37,66 | -13 | -24,66 |
| vertical | 17.747,000 | -32,02 | 0 | -32,02 | -13 | -19,02 |
| horizontal | 17.976,000 | -31,33 | 0 | -31,33 | -13 | -18,33 |
| vertical | 26.466,000 | -34,98 | 0 | -34,98 | -13 | -21,98 |
| horizontal | 25.972,000 | -35,89 | 0 | -35,89 | -13 | -22,89 |

Summary table with radiated data of the test plots for Carrier Test Frequency 1907.4 MHz

| Spectral Plot | Frequency Marker Indication [MHz] | Indication Power Level [dBm] | External Attn.[dB] | Worst Case Emission Level [dBm] | Compliance Limit [dBm] | Results |
|---------------|-----------------------------------|------------------------------|--------------------|---------------------------------|------------------------|---------|
| vertical | 173,427 | -64,22 | 0 | -64,22 | -13 | -51,22 |
| horizontal | 68,497 | -62,55 | 0 | -62,55 | -13 | -49,55 |
| vertical | 985,571 | -52,02 | 0 | -52,02 | -13 | -39,02 |
| horizontal | 871,743 | -50,56 | 0 | -50,56 | -13 | -37,56 |
| vertical | 1.986,000 | -17,82 | 0 | -17,82 | -13 | -4,82 |
| horizontal | 3.979,000 | -27,76 | 0 | -27,76 | -13 | -14,76 |
| vertical | 7.591,000 | -41,88 | 0 | -41,88 | -13 | -28,88 |
| horizontal | 7.583,000 | -42,76 | 0 | -42,76 | -13 | -29,76 |
| vertical | 11.687,000 | -37,8 | 0 | -37,8 | -13 | -24,8 |
| horizontal | 11.150,000 | -37,97 | 0 | -37,97 | -13 | -24,97 |
| vertical | 17.976,000 | -31,75 | 0 | -31,75 | -13 | -18,75 |
| horizontal | 17.940,000 | -31,92 | 0 | -31,92 | -13 | -18,92 |
| vertical | 26.040,000 | -34,86 | 0 | -34,86 | -13 | -21,86 |
| horizontal | 26.023,000 | -35,62 | 0 | -35,62 | -13 | -22,62 |

See attached diagrams

Test equipment: ETS 0014, ETS 0294, ETS 0295, ETS 0310, ETS 0416, ETS 0484

3.7 Block edge compliance

Reference

| | Cellular telephone 850 MHz | PCS 1900 MHz |
|------------|----------------------------|-----------------------|
| FCC | CFR part 22.917(b) | CFR part 24.238(b) |
| IC | RSS-132 Issue 2, §4.5.1.1 | RSS-133 Issue 3, §4.4 |

Method of measurement

In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth.

Limits

| | Cellular telephone 850 MHz | PCS 1900 MHz |
|------------|--------------------------------------|--------------------------------------|
| FCC | $P_c - (43 + 10 \log(P) \text{ dB})$ | $P_c - (43 + 10 \log(P) \text{ dB})$ |
| IC | $P_c - (43 + 10 \log(P) \text{ dB})$ | $P_c - (43 + 10 \log(P) \text{ dB})$ |

Test results

| | Frequency channel | RBW kHz | Worst case emission level dBm |
|---------------------------------------|-------------------|------------|-------------------------------------|
| Cellular telephone 850 MHz | 4133 | 3 kHz | 23.05 |
| | 4332 | 3 kHz | 22.85 |
| PCS 1900 MHz | 9263 | 3 kHz | 21.67 |
| | 9537 | 3 kHz | 20.34 |

See attached diagrams.

Test equipment: ETS 0413, ETS 0416, ETS 0484

3.8 AC power line conducted emissions

Reference

| | Cellular telephone 850 MHz | PCS 1900 MHz |
|------------|----------------------------|-----------------|
| FCC | CFR part 15.207 | CFR part 15.207 |
| IC | Not applicable | Not applicable |

Method of measurement

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits. Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

Limits

| | Cellular telephone 850 MHz | PCS 1900 MHz | |
|------------|----------------------------|---|---------|
| FCC | Frequency of emission | Conducted limit field strength [dB μ V] | |
| | [MHz] | Quasi Peak | Average |
| | 0.15 - 0.5 | 66 to 56 | 56 - 46 |
| | 0.5 - 5 | 56 | 46 |
| | 5 - 30 | 60 | 50 |
| IC | Not applicable | | |

Test results

| Frequency | Level | |
|-----------|------------------|------------------|
| | Quasi-peak | Average |
| 150 kHz | Lower limit line | Lower limit line |

Comment: See attached diagrams.

Test equipment: ETS 0059, ETS 0085, ETS 0288, ETS 0476

4 Receiver parameters

4.1 Radiated emissions

Reference

| | Cellular telephone 850 MHz | PCS 1900 MHz |
|------------|---|--|
| FCC | CFR part 15.109, 2.1053 | CFR part 15.109, 2.1053 |
| IC | RSS-132 Issue 2, 4.6 RSS-Gen Issue 1, §4.8 | RSS-133 Issue 3, §4.5 RSS-Gen Issue 1, §4.8 |

Method of measurement

The receiver shall be operated in the normal receive mode near the mid-point of the band(s) over which the receiver is designed to operate.

The measurement method is the radiated emission measurement. The measurement starts at 30 MHz and ends at least 5 times the highest tunable local oscillator frequency (6 GHz).

Limits

| | Cellular telephone 850 MHz | PCS 1900 MHz |
|------------|-----------------------------|---|
| FCC | Spurious frequency [MHz] | Field strength microvolt/m at 3 meters |
| | 30 - 88 | 100 |
| | 88 - 216 | 150 |
| | 216 - 960 | 200 |
| | above 960 | 500 |
| IC | Not applicable | |

Test Results

| | Frequency marker indication [MHz] | Antenna polarization | Worst case emission level [dBm] | Compliance limit [dBm] | Results [dBm] |
|--|-----------------------------------|----------------------|---------------------------------|------------------------|----------------|
| Cellular telephone 850 MHz UMTS | 199,319 | V | 42,51 | 150 | <u>-107,49</u> |
| | 193,868 | H | 42,61 | 150 | <u>-107,39</u> |
| | 879,760 | V | 142,72 | 200 | <u>-57,28</u> |
| | 879,760 | H | 114,42 | 200 | <u>-85,58</u> |
| | 3958,000 | V | 116,68 | 500 | <u>-383,32</u> |
| | 3880,000 | H | 106,29 | 500 | <u>-393,71</u> |
| | 7960,000 | V | 158,85 | 500 | <u>-341,15</u> |
| | 7920,000 | H | 156,49 | 500 | <u>-343,51</u> |

| | Frequency marker indication [MHz] | Antenna polarization | Worst case emission level [dBm] | Compliance limit [dBm] | Results [dBm] |
|--------------------------|-----------------------------------|----------------------|---------------------------------|------------------------|----------------|
| PCS 1900 MHz UMTS | 188,417 | V | 37,28 | 150 | <u>-112,72</u> |
| | 198,637 | H | 13,27 | 150 | <u>-136,73</u> |
| | 890,982 | V | 13,27 | 200 | <u>-186,73</u> |
| | 921,443 | H | 12,85 | 200 | <u>-187,15</u> |
| | 3970,000 | V | 124,17 | 500 | <u>-375,83</u> |
| | 3940,000 | H | 118,99 | 500 | <u>-381,01</u> |
| | 7295,000 | V | 120,50 | 500 | <u>-379,50</u> |
| | 7126,000 | H | 135,21 | 500 | <u>-364,79</u> |
| | 11607,000 | V | 209,17 | 500 | <u>-290,83</u> |
| | 11872,000 | H | 247,74 | 500 | <u>-252,26</u> |

Not required.

Test equipment: ETS 0014, ETS 0294, ETS 0295, ETS 0310, ETS 0416, ETS 0484

ANNEX

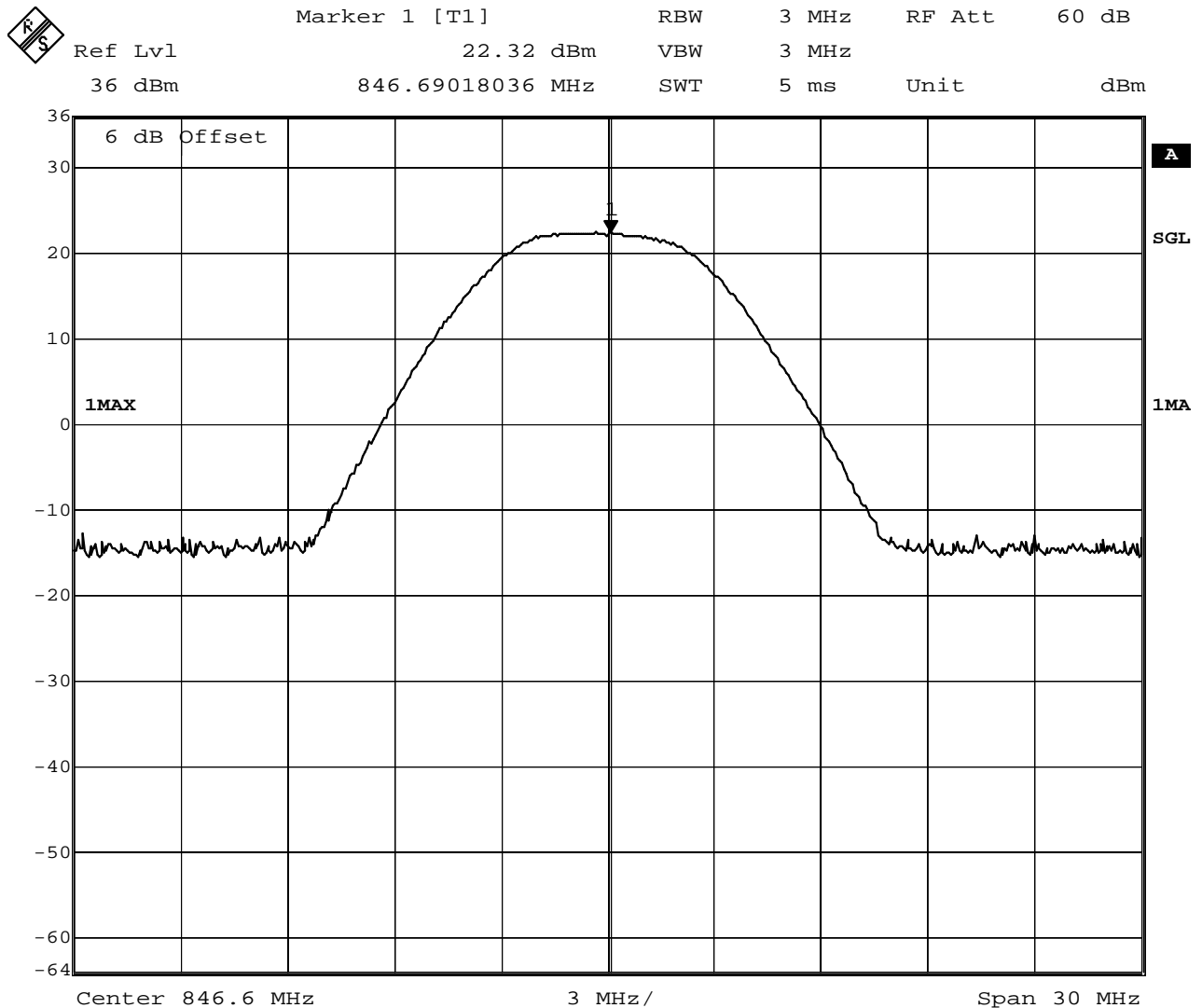
| | | |
|----------|---|-----------------|
| A | Pictures | 14 pages |
| B | RF power output conducted | 6 pages |
| C | RF power output radiated | 12 pages |
| D | Occupied bandwidth, emission bandwidth | 12 pages |
| E | Spurious emission radiated | 72 pages |
| F | Block edge compliance | 4 pages |
| G | AC power line conducted emissions | 2 pages |
| H | Receiver radiated emissions | 18 pages |

Annex B

RF power output conducted

FCC Part 22 H
Output power conducted

| | |
|-----------------------|--|
| EUT | USB - Stick |
| Model | GI0322 / SNR: FW4286900V |
| Approval Holder | Option Wireless Germany GmbH |
| Temperature / Voltage | 23°C / V_USB: 5 V +/- 0.25 V |
| Test Site / Operator | Eurofins Product Service GmbH / G0M20806-1862 / Mr. Walter |
| Test Specification | FCC Part 22 Subpart H |
| Comment 1 | Channel: 4232 |
| Comment 2 | |
| Comment 3 | |



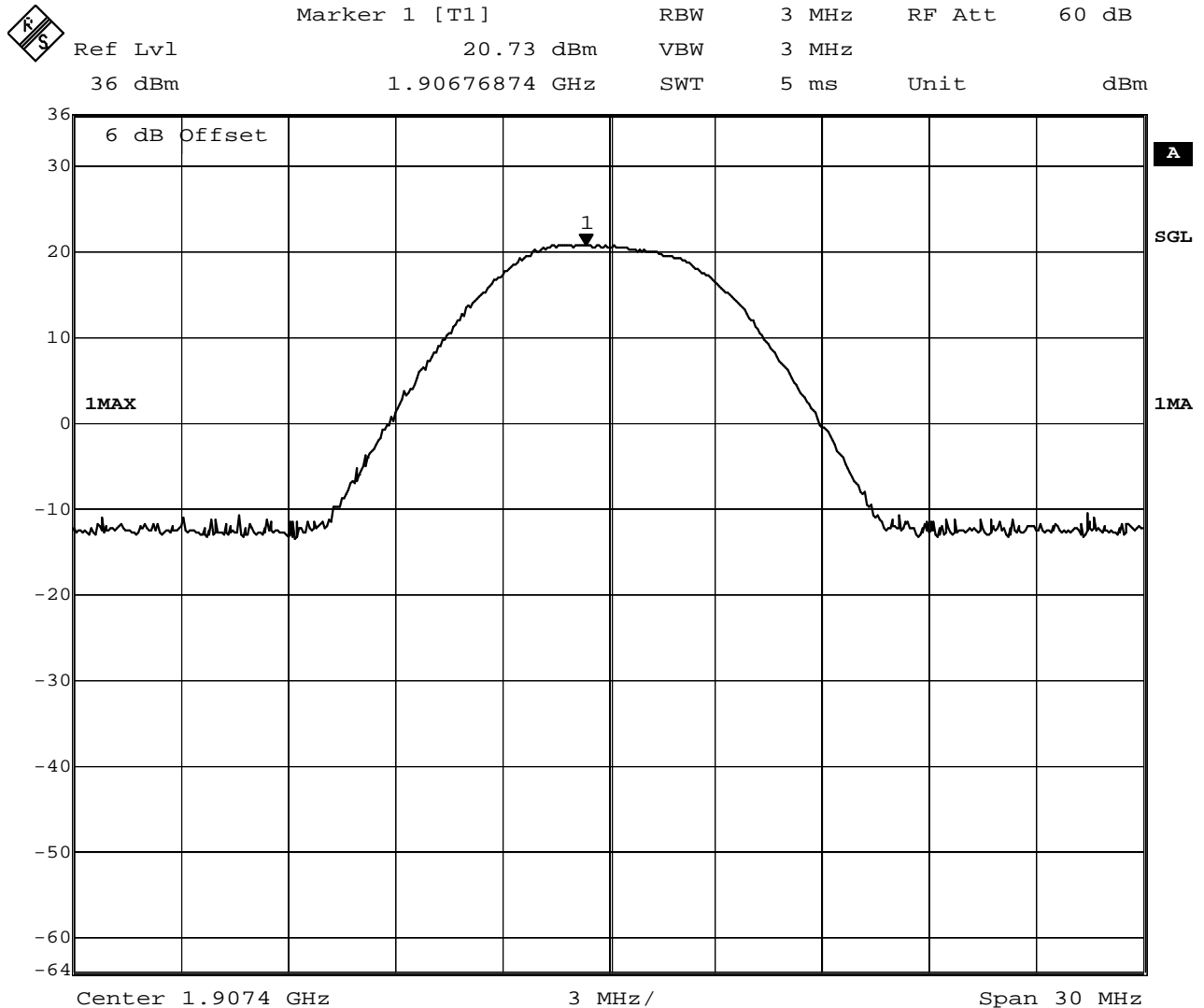
Date: 21.JUN.2008 12:20:32

Measurement diagram

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

FCC Part 24 E
Output power conducted

| | |
|-----------------------|--|
| EUT | USB - Stick |
| Model | GI0322 / SNR: FW4286900V |
| Approval Holder | Option Wireless Germany GmbH |
| Temperature / Voltage | 23°C / V_USB: 5 V +/- 0.25 V |
| Test Site / Operator | Eurofins Product Service GmbH / G0M20806-1862 / Mr. Walter |
| Test Specification | FCC Part 24 Subpart E |
| Comment 1 | Channel: 9537 |
| Comment 2 | |
| Comment 3 | |



Date: 21.JUN.2008 11:53:02

Measurement diagram

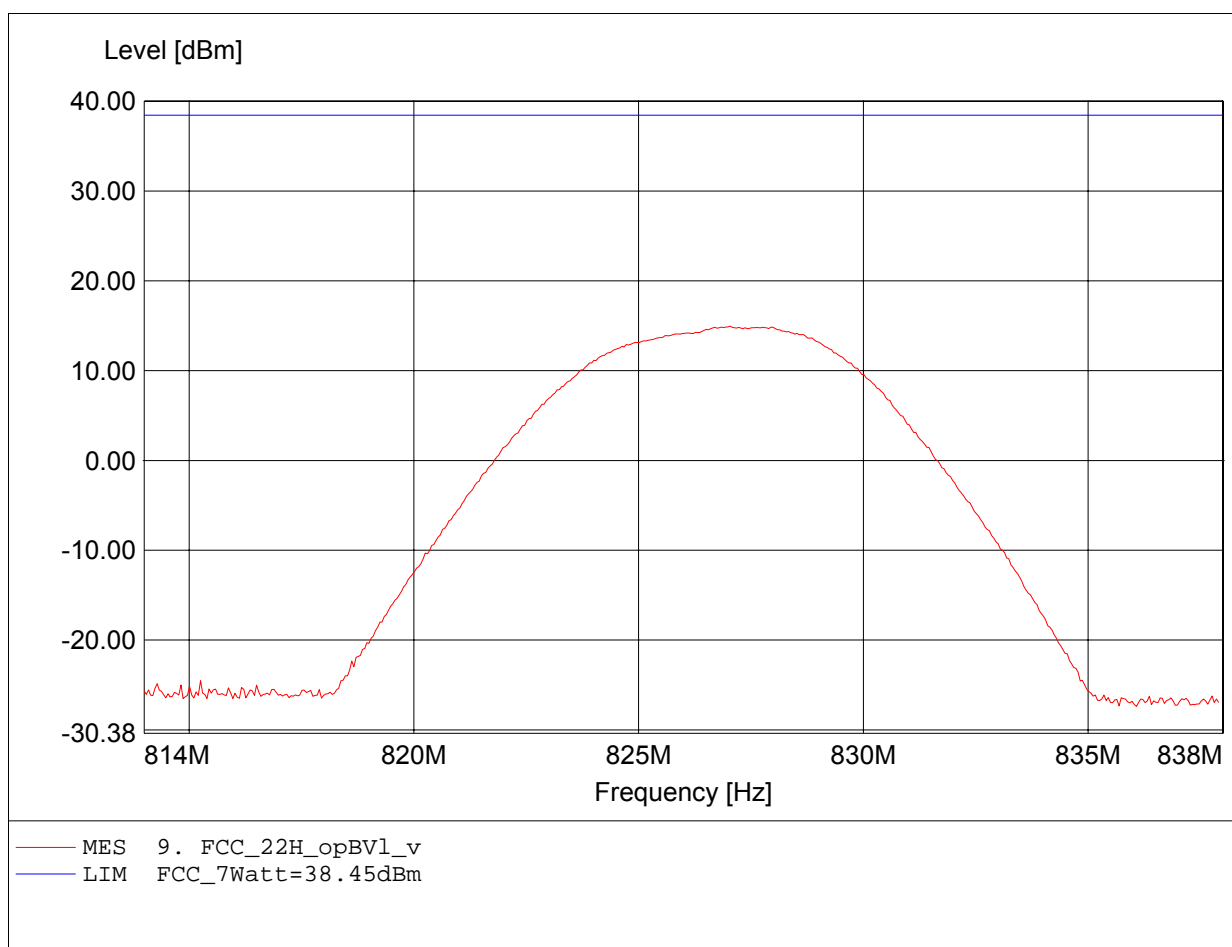
Eurofins ETS Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Annex C

RF power output radiated

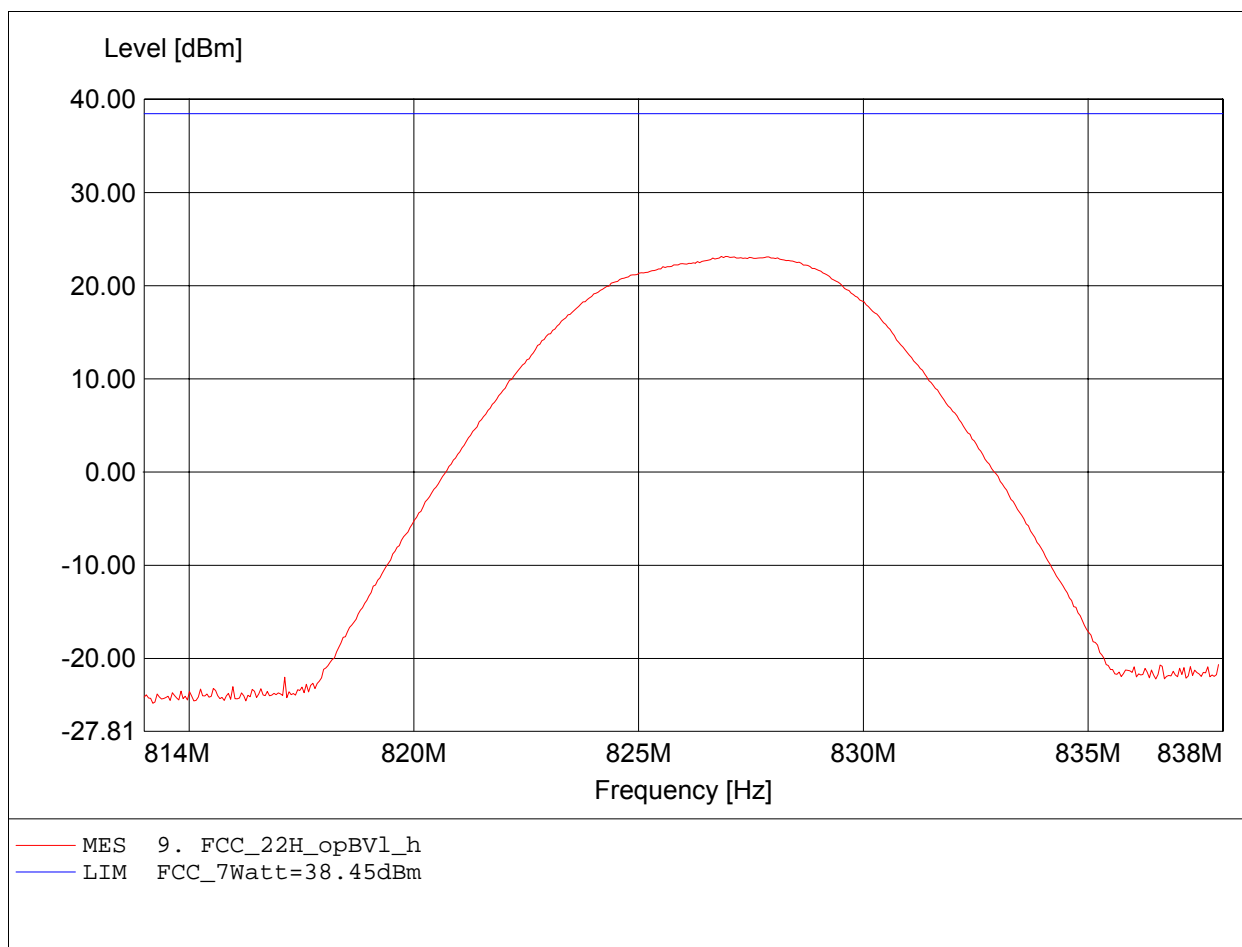
**Effective Radiated Power
FCC RULES PART 22 SUBPART H**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4133 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.913
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 827.034MHz, Pmax: 14.96dBm, RBW: 3MHz



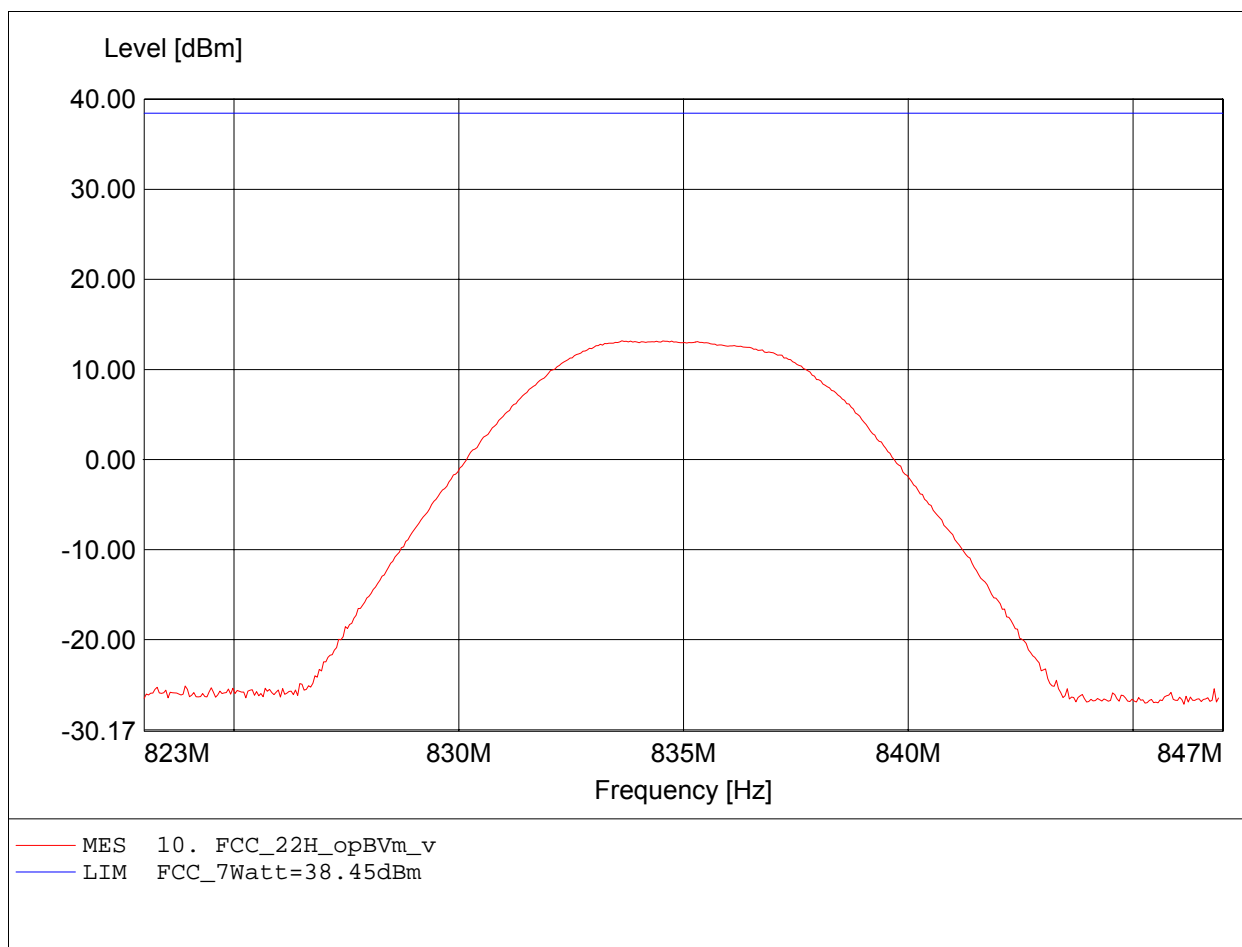
**Effective Radiated Power
FCC RULES PART 22 SUBPART H**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4133 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.913
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 826.842MHz, Pmax: 23.14dBm, RBW: 3MHz



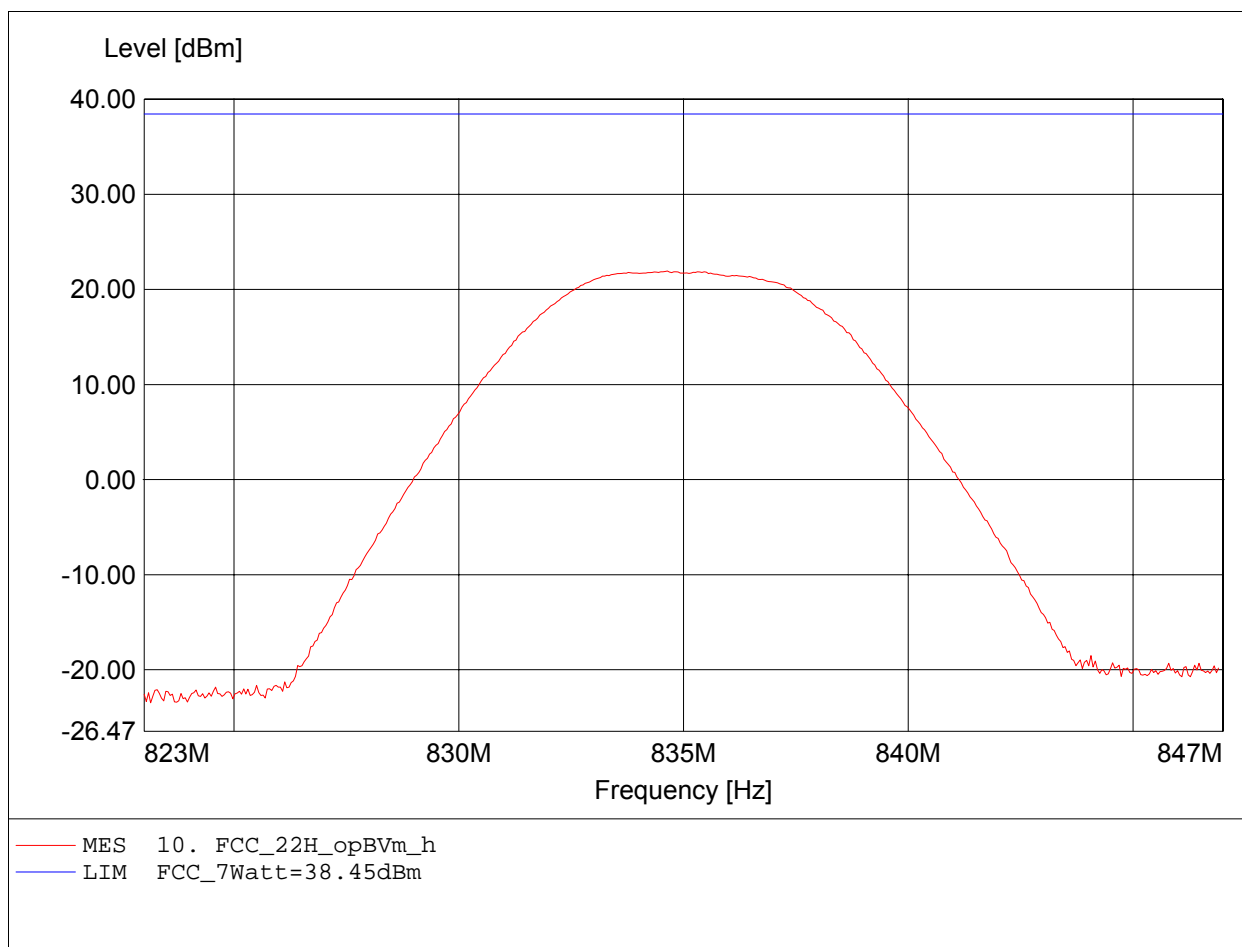
**Effective Radiated Power
FCC RULES PART 22 SUBPART H**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.913
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 833.629MHz, Pmax: 13.18dBm, RBW: 3MHz



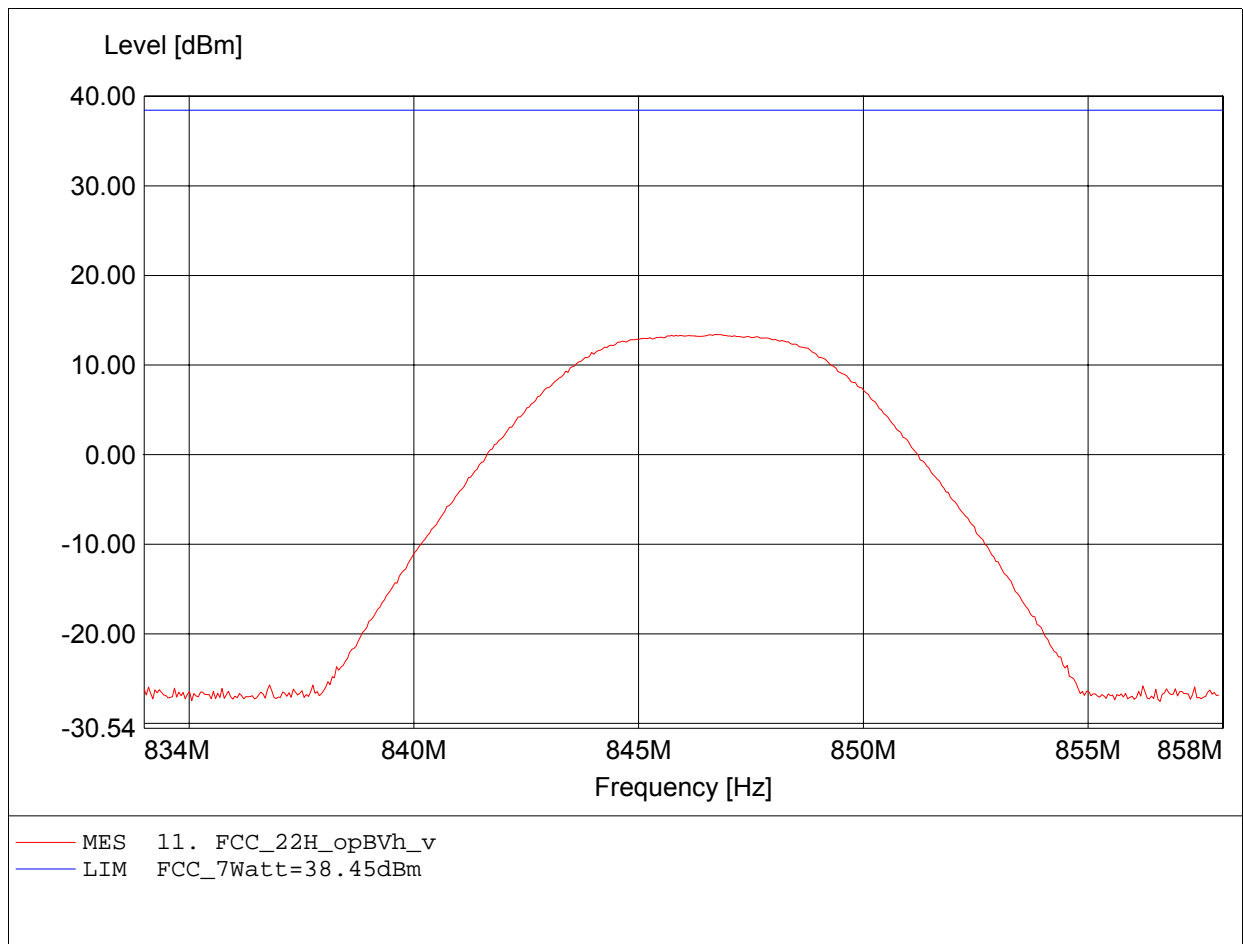
**Effective Radiated Power
FCC RULES PART 22 SUBPART H**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.913
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 834.639MHz, Pmax: 21.94dBm, RBW: 3MHz



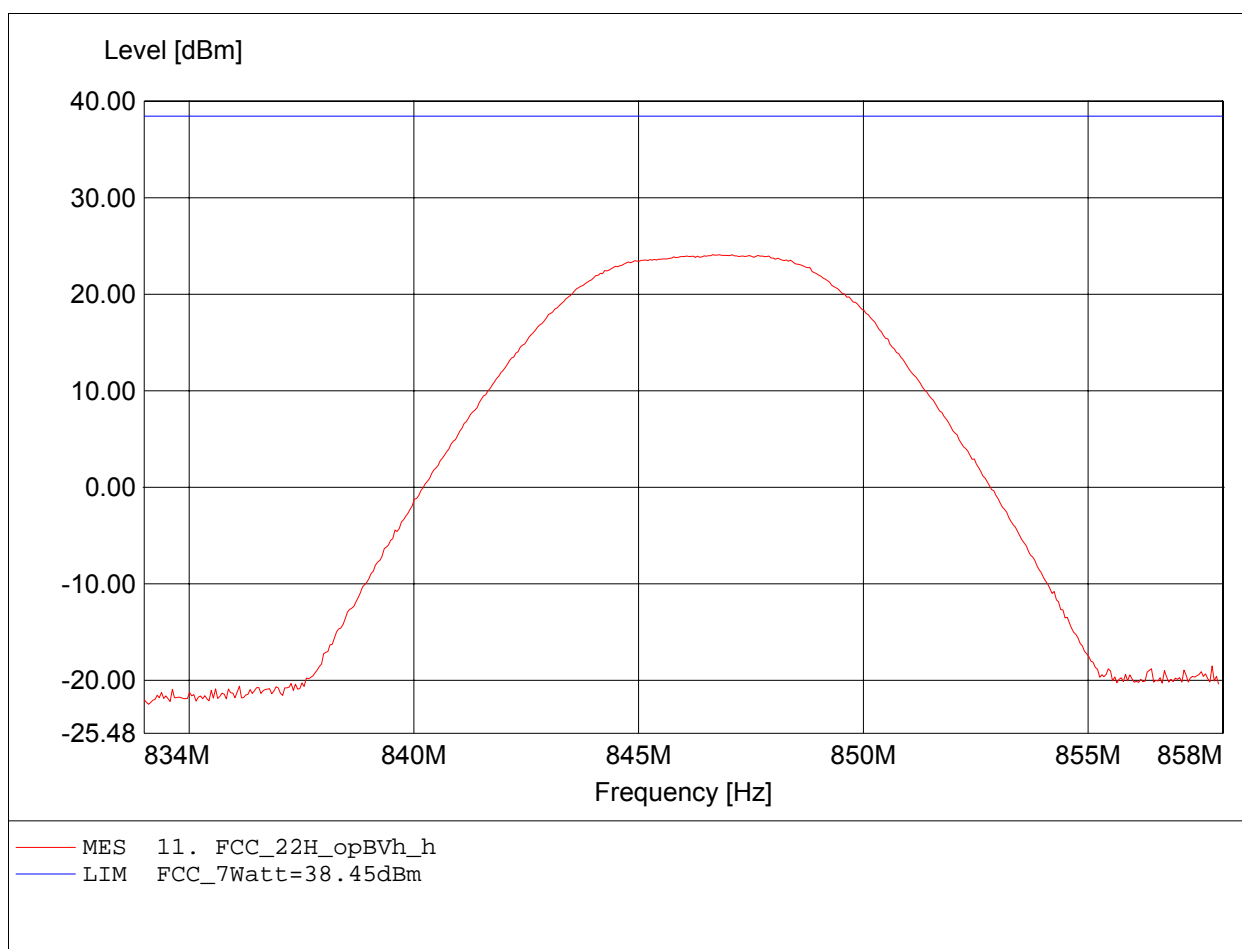
**Effective Radiated Power
FCC RULES PART 22 SUBPART H**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4232 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.913
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 846.697MHz, Pmax: 13.42dBm, RBW: 3MHz



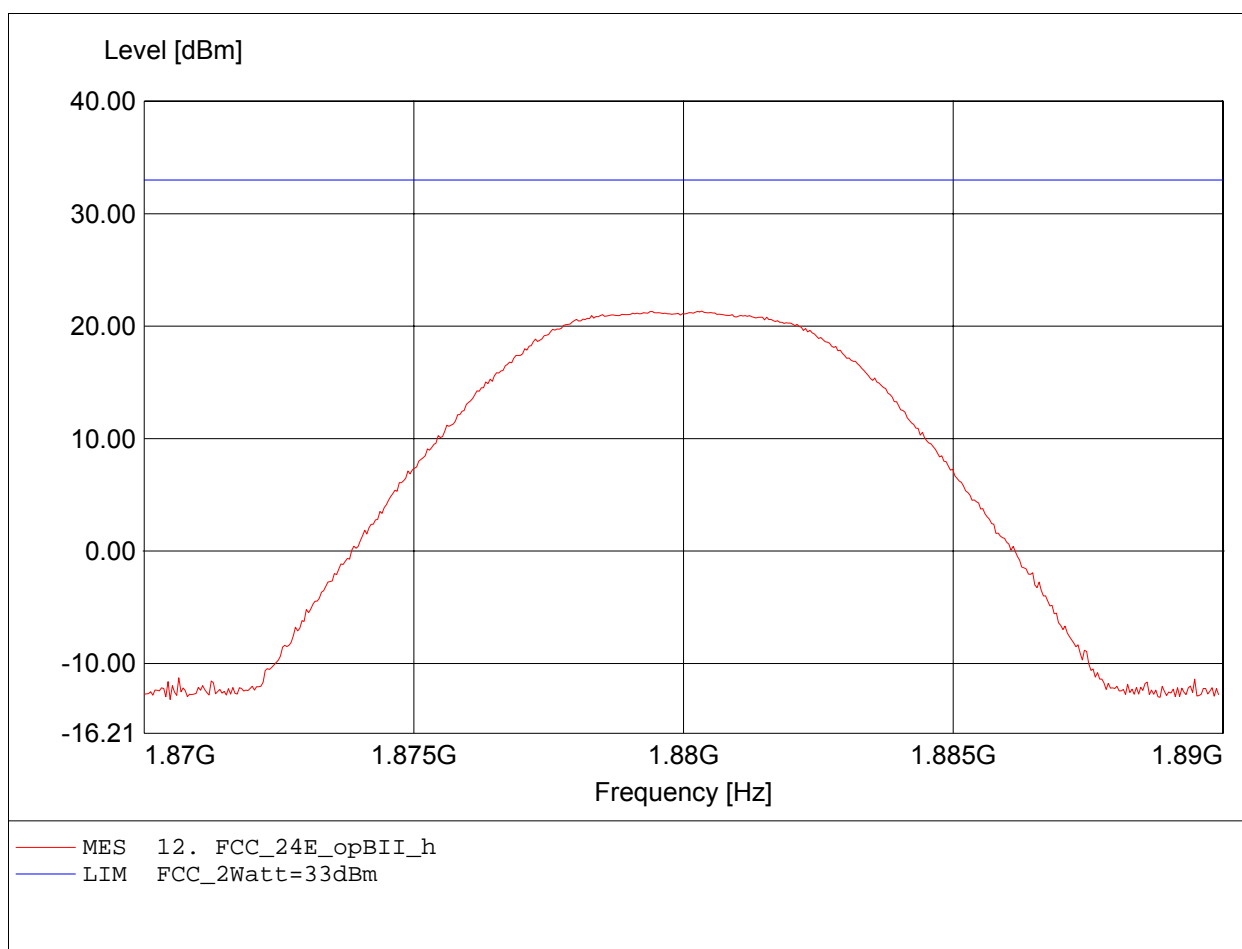
**Effective Radiated Power
FCC RULES PART 22 SUBPART H**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4232 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.913
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 846.649MHz, Pmax: 24.11dBm, RBW: 3MHz



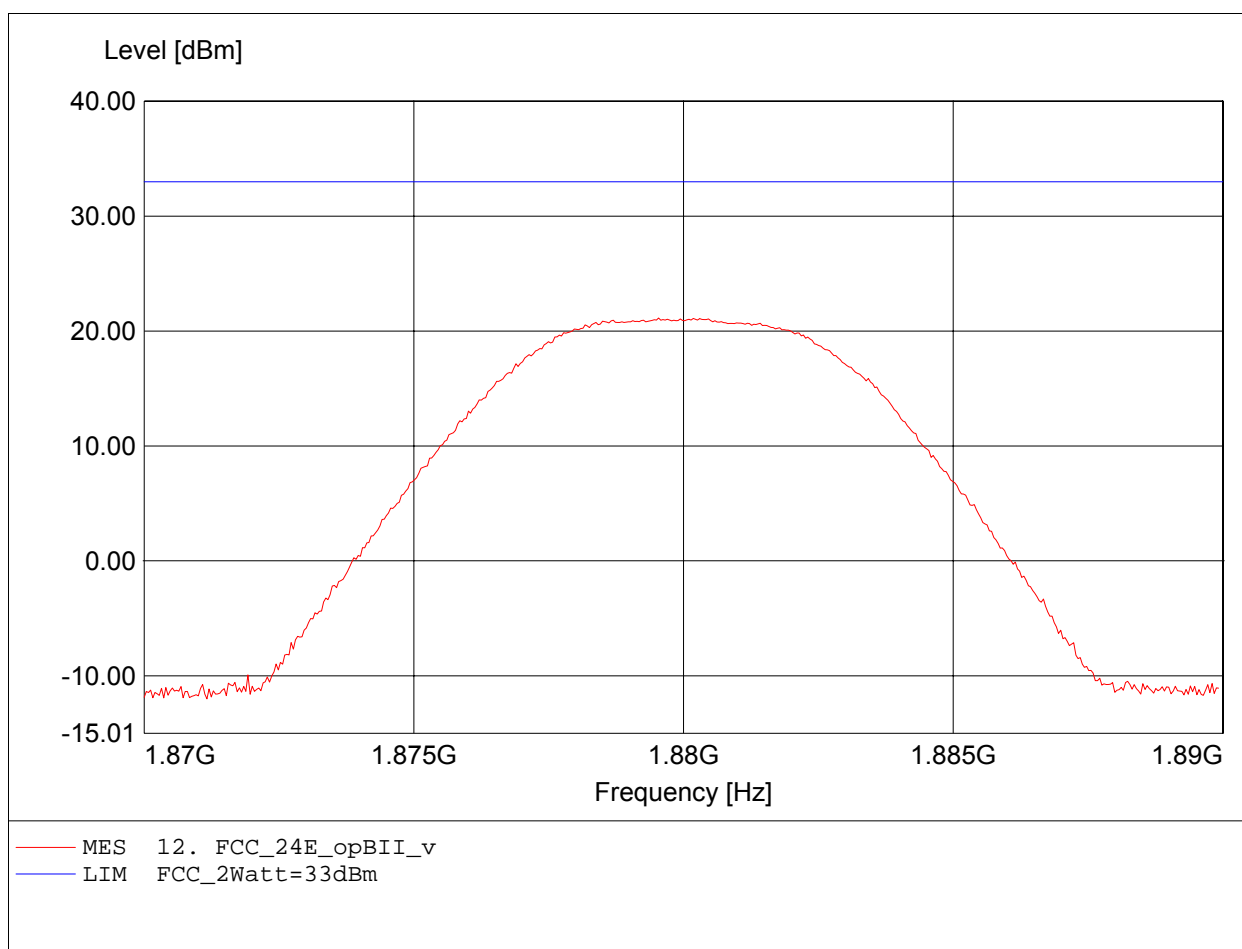
**Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.232
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 1.880GHz, Pmax: 21.34dBm, RBW: 3MHz



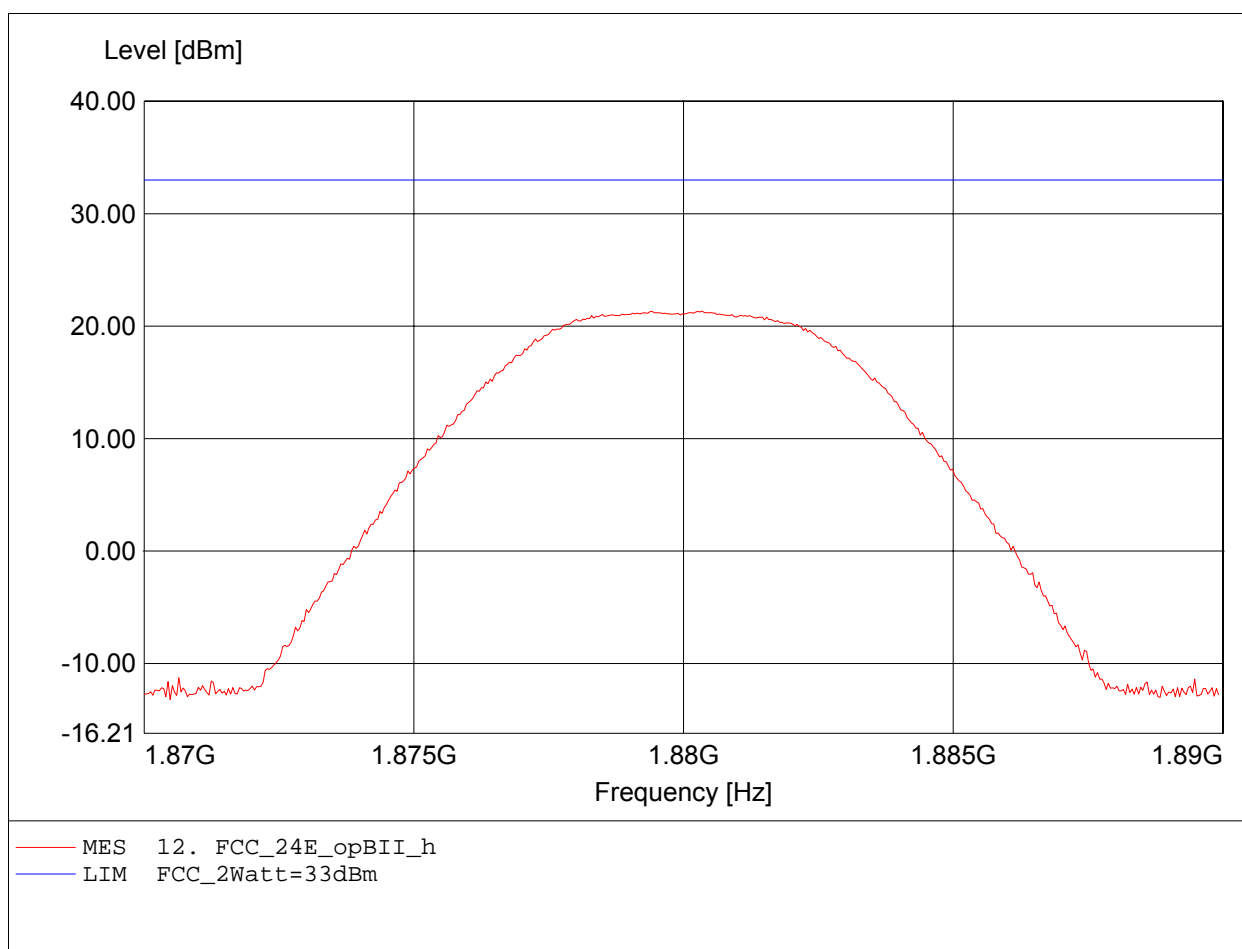
**Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.232
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 1.880GHz, Pmax: 21.13dBm, RBW: 3MHz



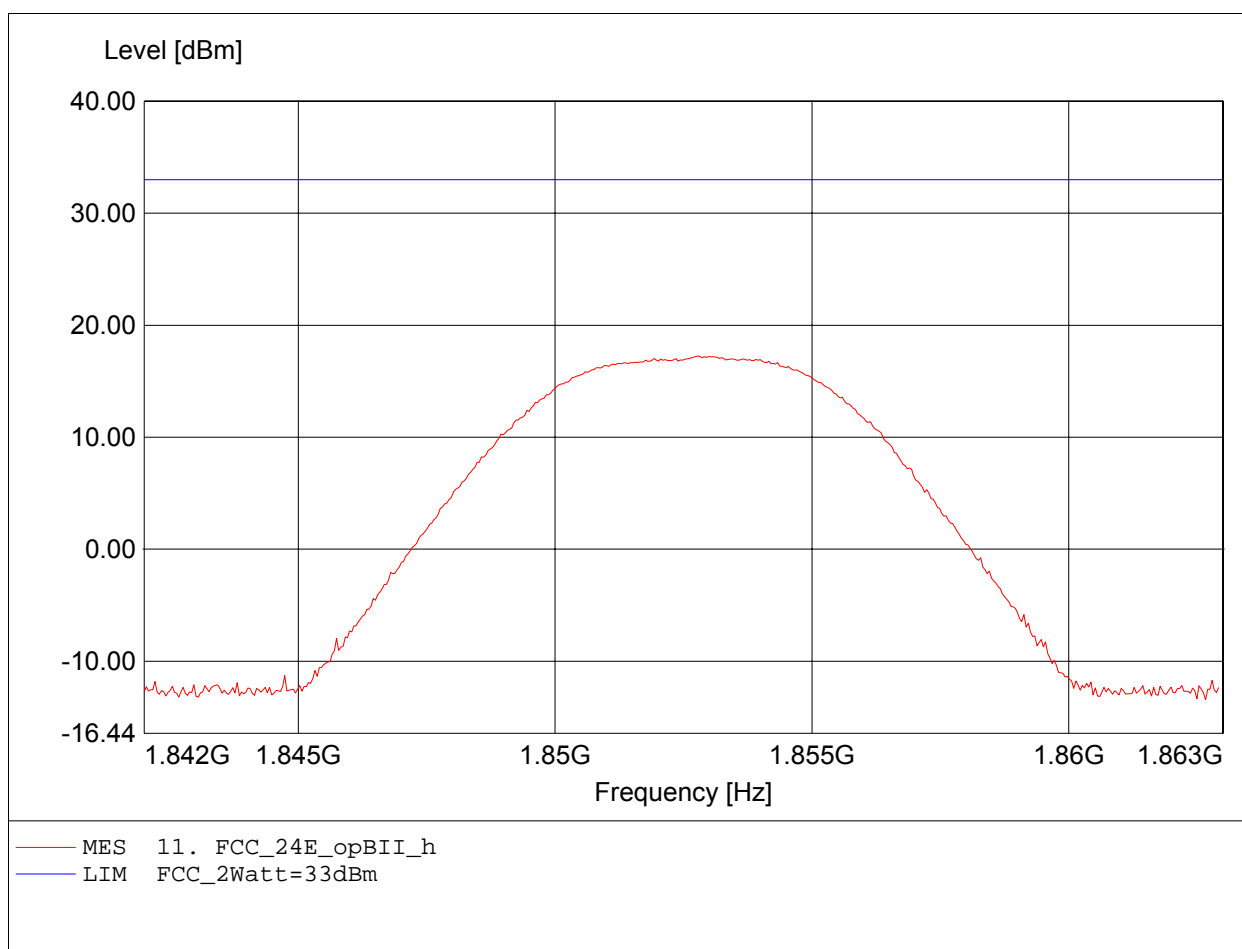
**Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.232
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 1.880GHz, Pmax: 21.34dBm, RBW: 3MHz



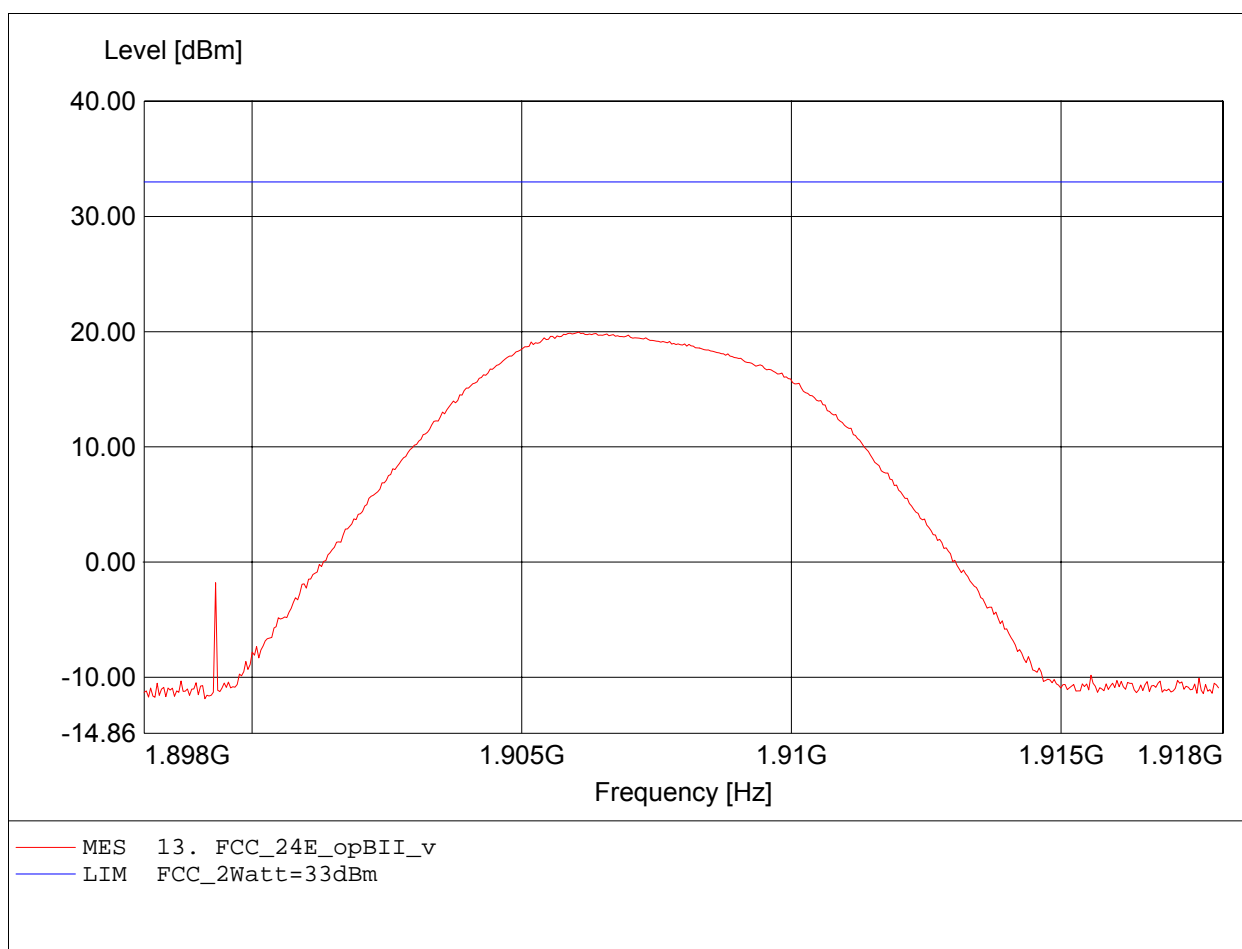
**Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.232
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 1.853GHz, Pmax: 17.24dBm, RBW: 3MHz



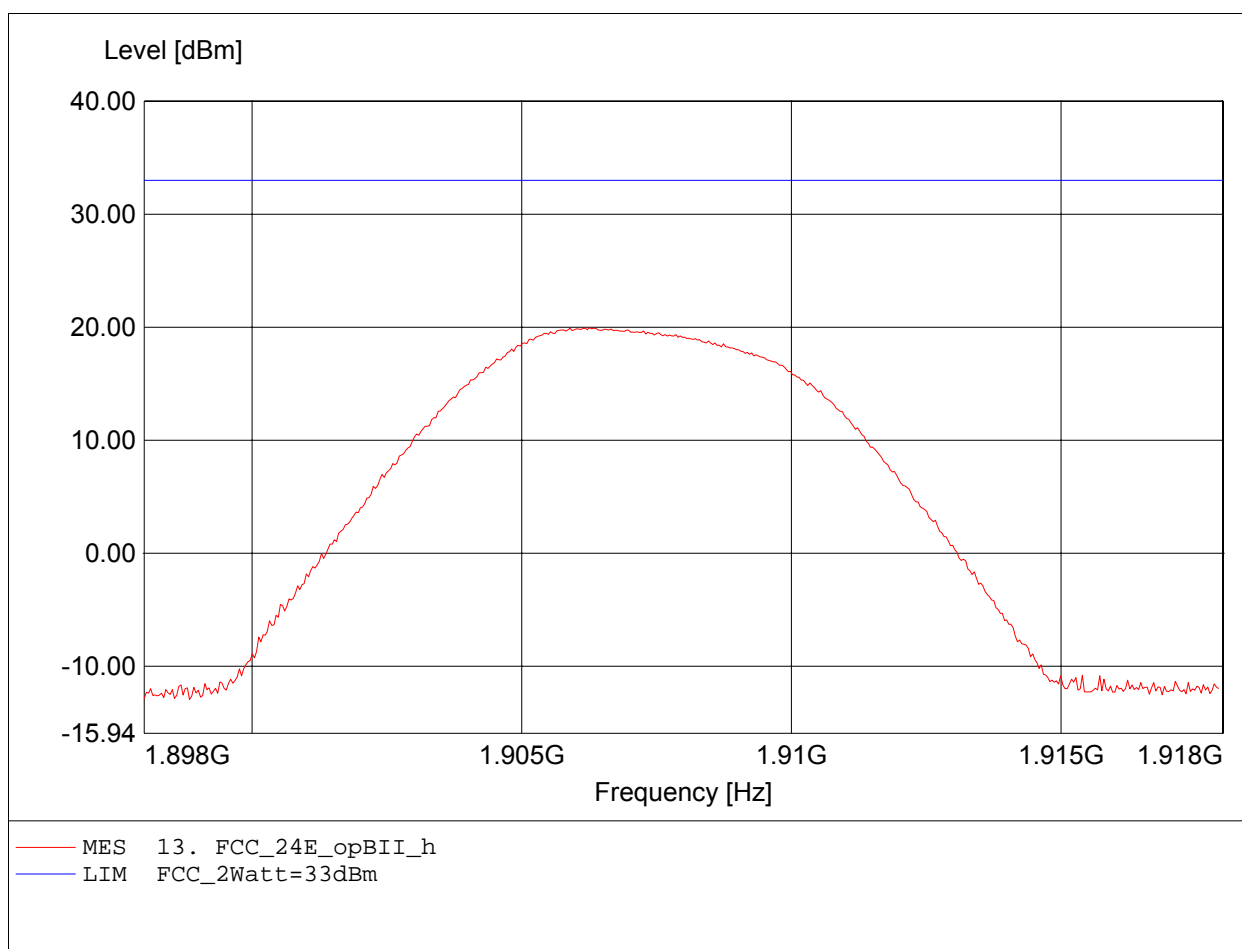
**Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.232
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 1.906GHz, Pmax: 19.97dBm, RBW: 3MHz



**Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.232
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 1.906GHz, Pmax: 19.96dBm, RBW: 3MHz

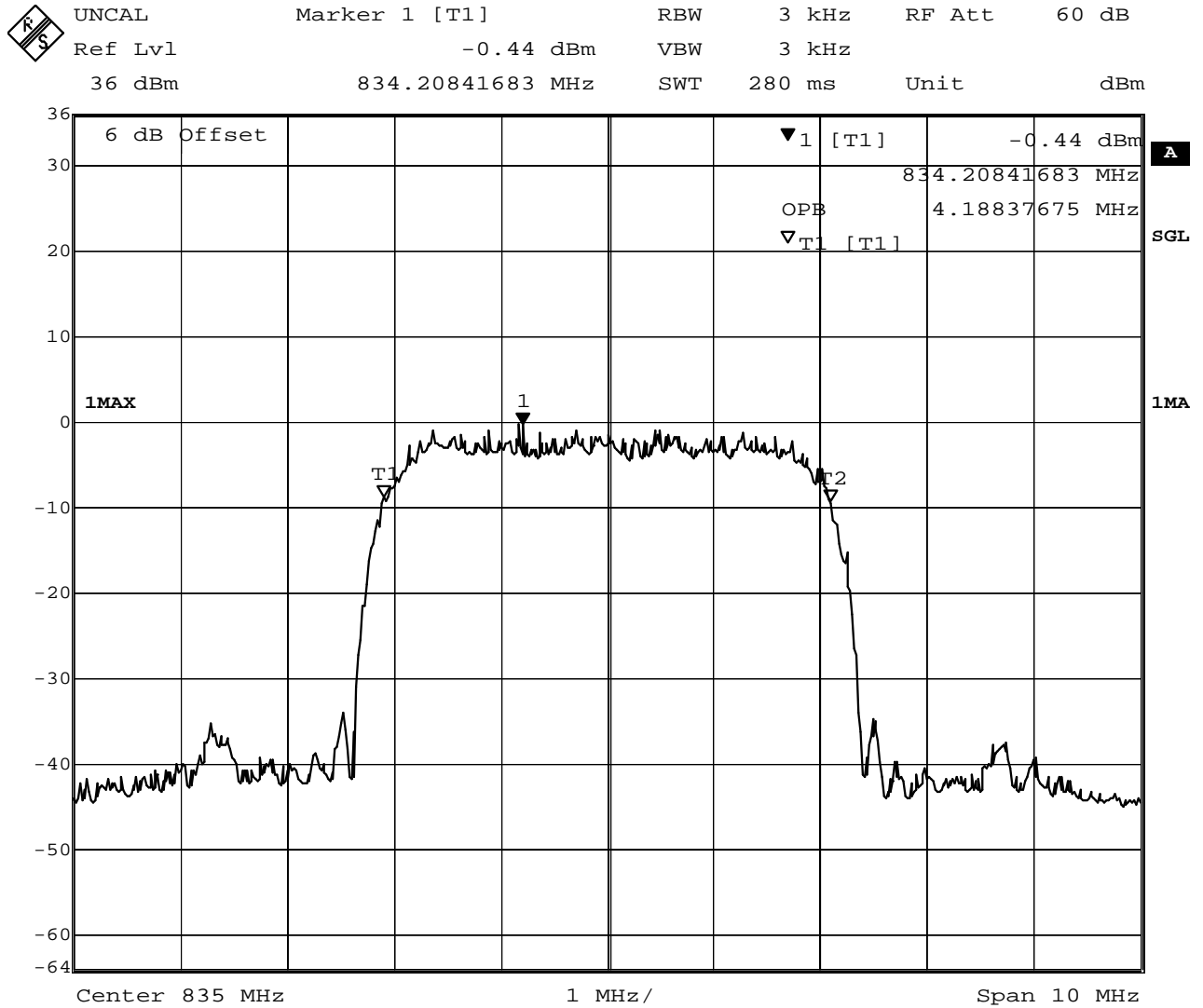


Annex D

Occupied bandwidth, emission bandwidth

**FCC Part 22 H
Occupied Bandwidth**

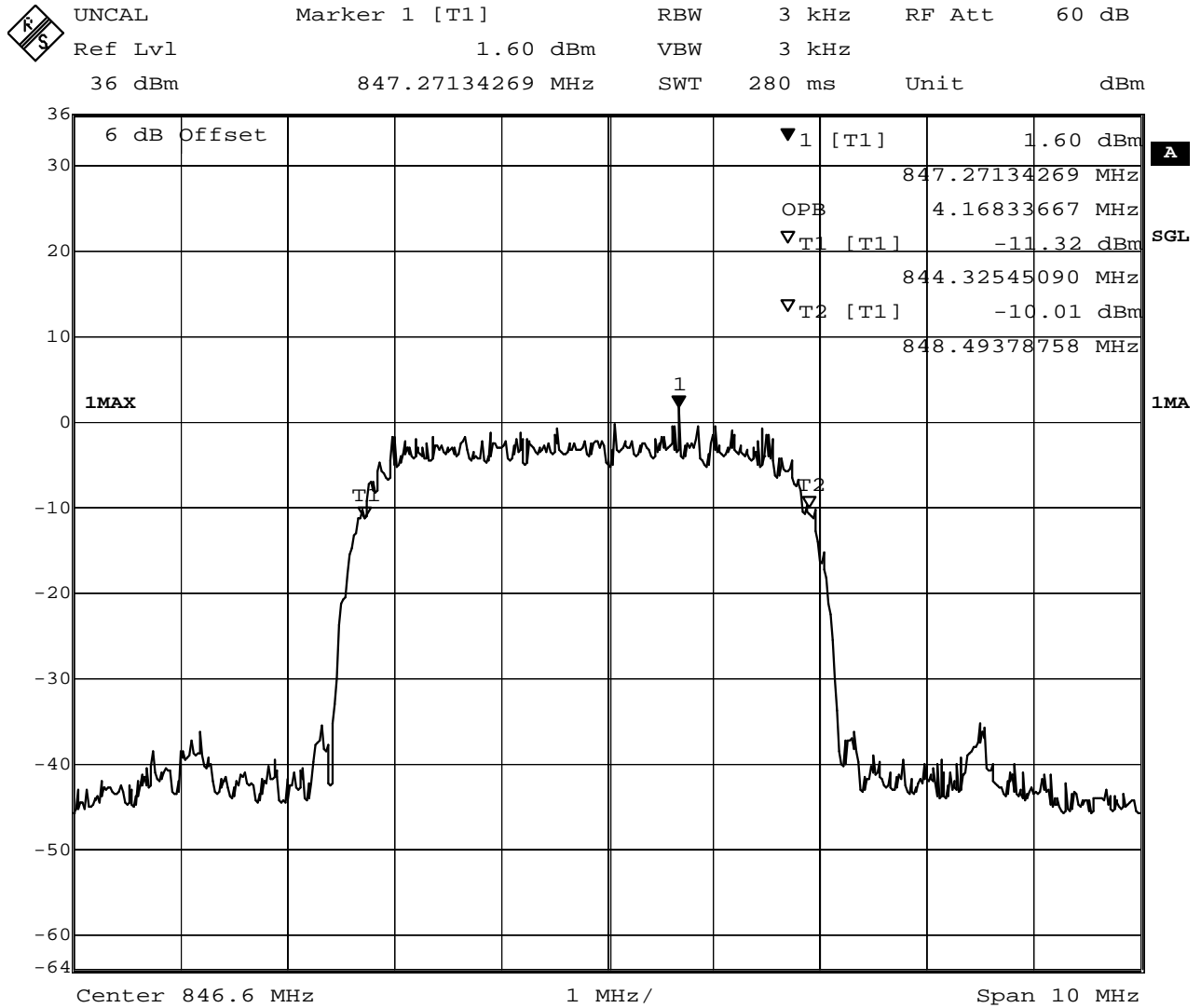
| | |
|-----------------------|--|
| EUT | USB - Stick |
| Model | GI0322 / SNR: FW4286900V |
| Approval Holder | Option Wireless Germany GmbH |
| Temperature / Voltage | 23°C / V_USB: 5 V +/- 0.25 V |
| Test Site / Operator | Eurofins Product Service GmbH / G0M20806-1862 / Mr. Walter |
| Test Specification | FCC Part 22 Subpart H |
| Comment 1 | Channel: 4175 |
| Comment 2 | |
| Comment 3 | |



Measurement diagram

**FCC Part 22 H
Occupied Bandwidth**

| | |
|-----------------------|--|
| EUT | USB - Stick |
| Model | GI0322 / SNR: FW4286900V |
| Approval Holder | Option Wireless Germany GmbH |
| Temperature / Voltage | 23°C / V_USB: 5 V +/- 0.25 V |
| Test Site / Operator | Eurofins Product Service GmbH / G0M20806-1862 / Mr. Walter |
| Test Specification | FCC Part 22 Subpart H |
| Comment 1 | Channel: 4232 |
| Comment 2 | |
| Comment 3 | |



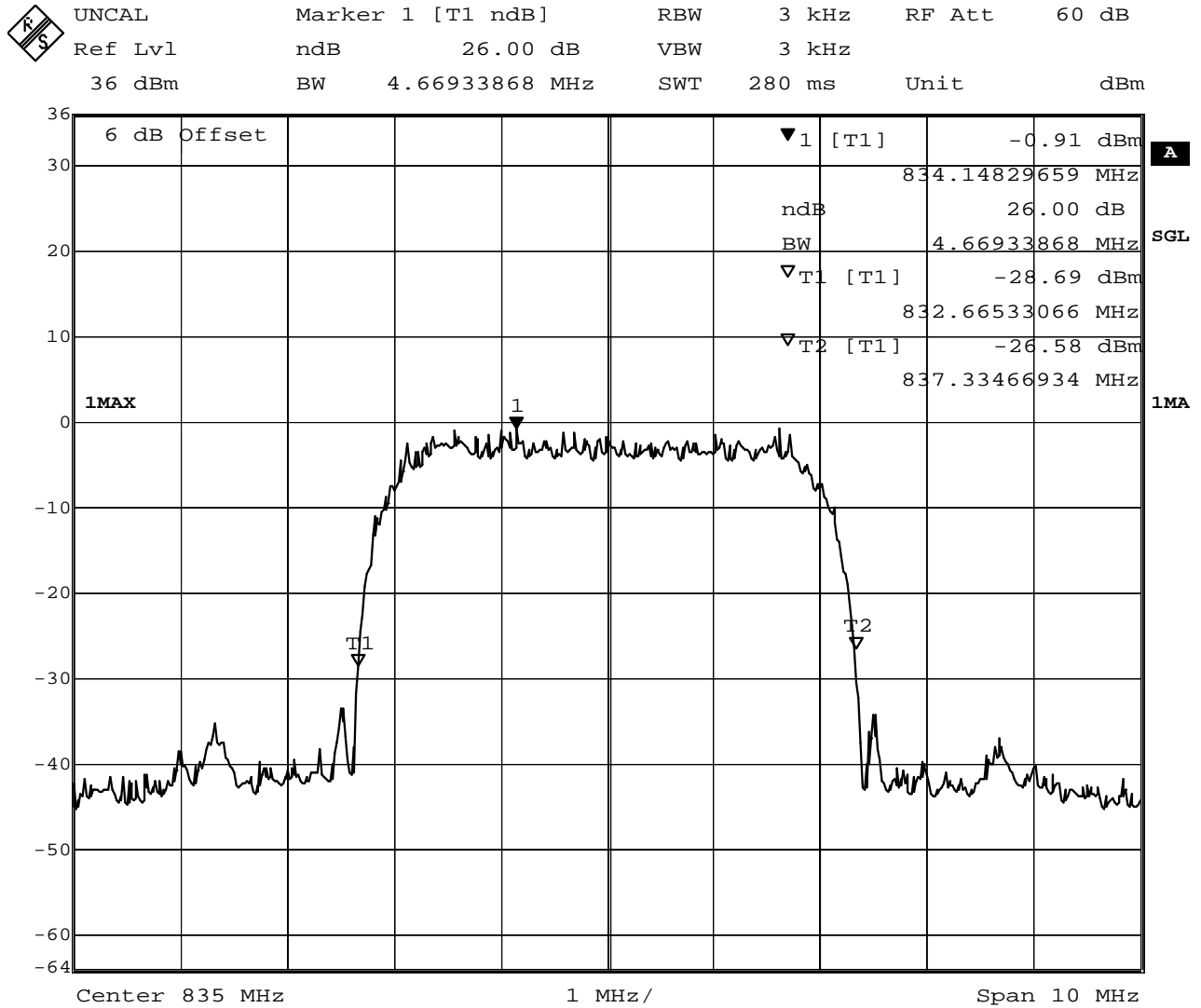
Date: 21.JUN.2008 12:28:46

Measurement diagram

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

**FCC Part 22 H
Emission Bandwidth**

EUT USB - Stick
 Model GI0322 / SNR: FW4286900V
 Approval Holder Option Wireless Germany GmbH
 Temperature / Voltage 23°C / V_USB: 5 V +/- 0.25 V
 Test Site / Operator Eurofins Product Service GmbH / G0M20806-1862 / Mr. Walter
 Test Specification FCC Part 22 Subpart H
 Comment 1 Channel: 4175
 Comment 2 -26 dB Emission Bandwidth
 Comment 3



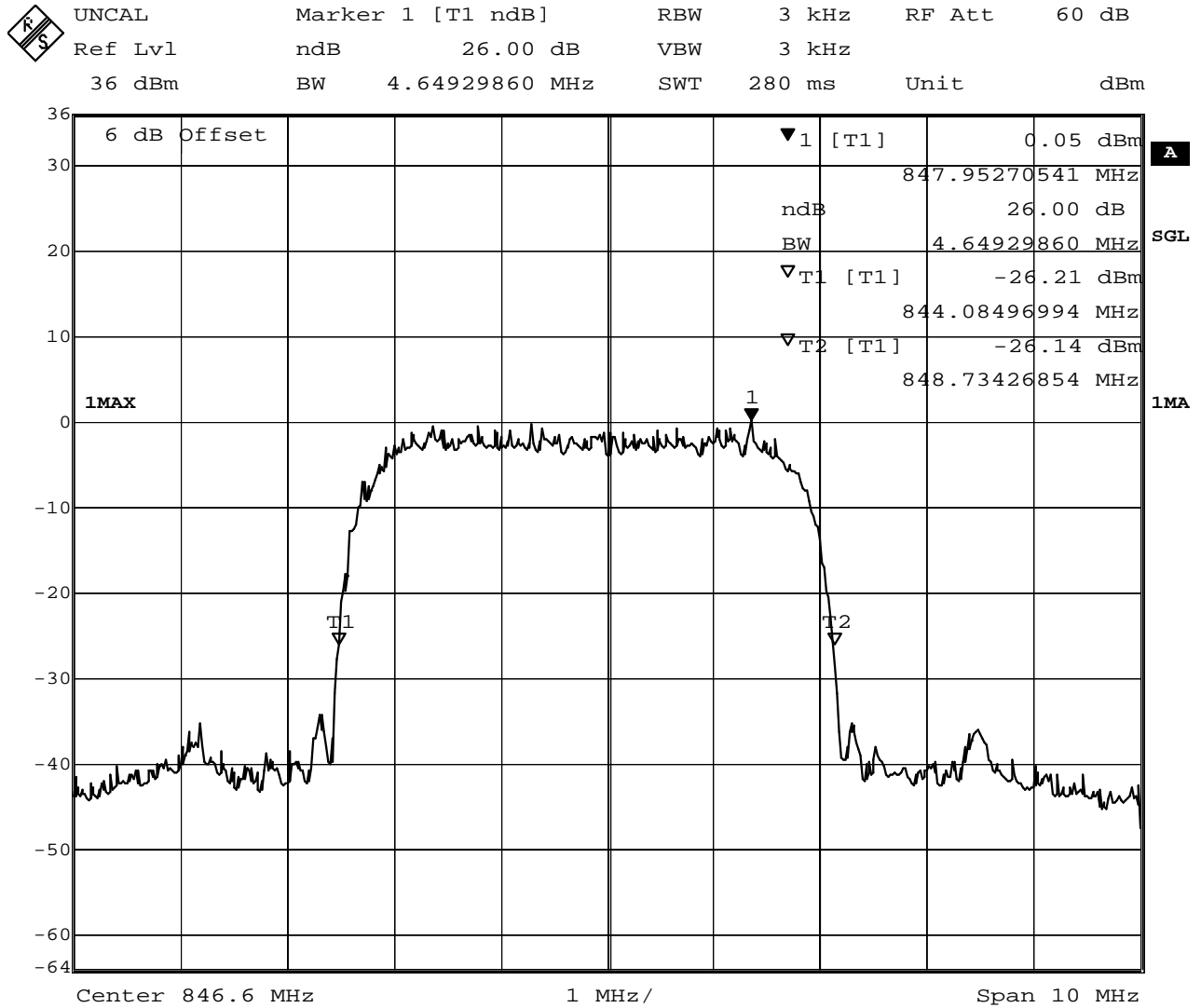
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Measurement diagram

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

**FCC Part 22 H
Emission Bandwidth**

| | |
|-----------------------|--|
| EUT | USB - Stick |
| Model | GI0322 / SNR: FW4286900V |
| Approval Holder | Option Wireless Germany GmbH |
| Temperature / Voltage | 23°C / V_USB: 5 V +/- 0.25 V |
| Test Site / Operator | Eurofins Product Service GmbH / G0M20806-1862 / Mr. Walter |
| Test Specification | FCC Part 22 Subpart H |
| Comment 1 | Channel: 4232 |
| Comment 2 | -26 dB Emission Bandwidth |
| Comment 3 | |



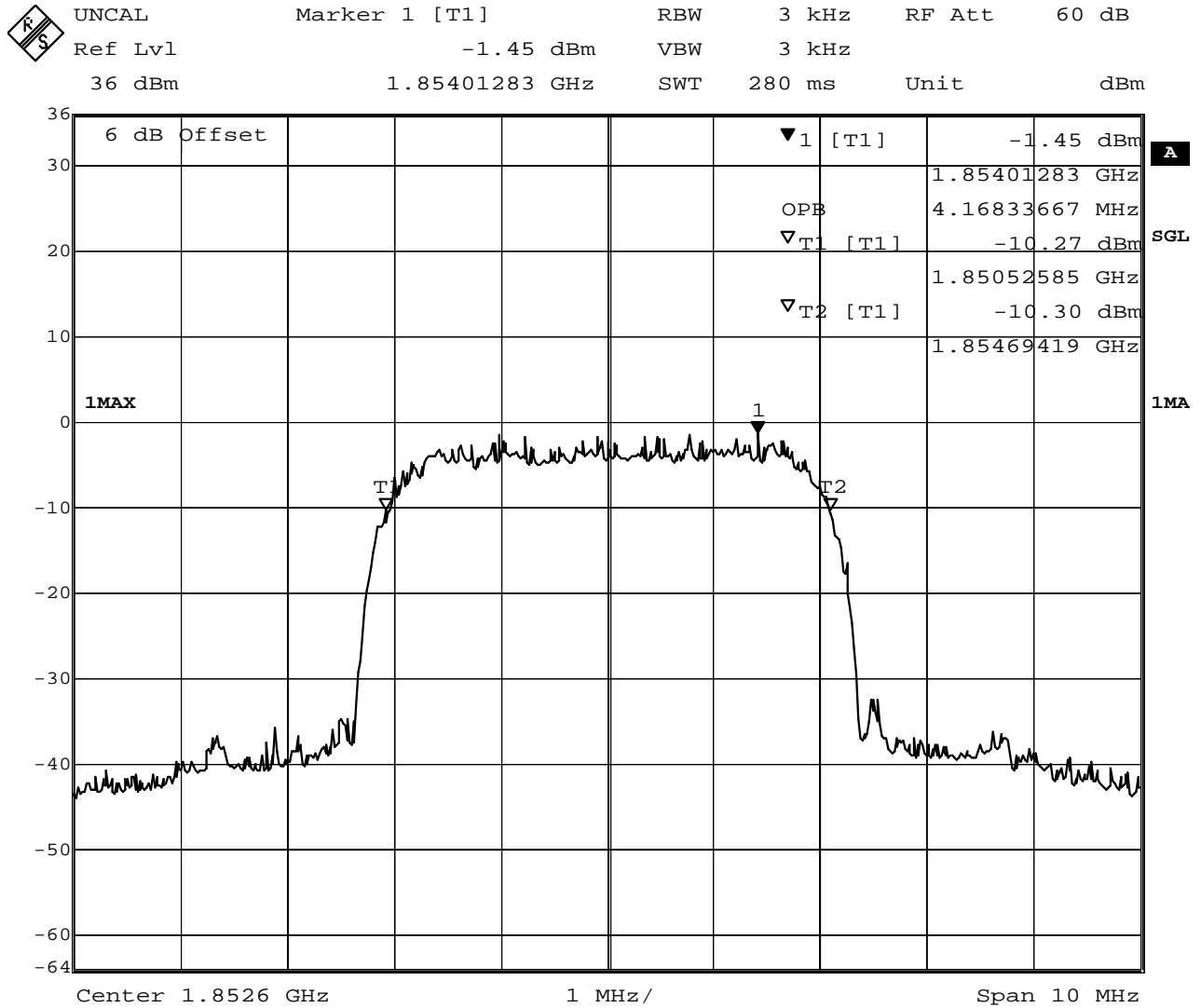
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Measurement diagram

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

**FCC Part 24 E
Occupied Bandwidth**

| | |
|-----------------------|--|
| EUT | USB - Stick |
| Model | GI0322 / SNR: FW4286900V |
| Approval Holder | Option Wireless Germany GmbH |
| Temperature / Voltage | 23°C / V_USB: 5 V +/- 0.25 V |
| Test Site / Operator | Eurofins Product Service GmbH / G0M20806-1862 / Mr. Walter |
| Test Specification | FCC Part 24 Subpart E |
| Comment 1 | Channel: 9263 |
| Comment 2 | |
| Comment 3 | |



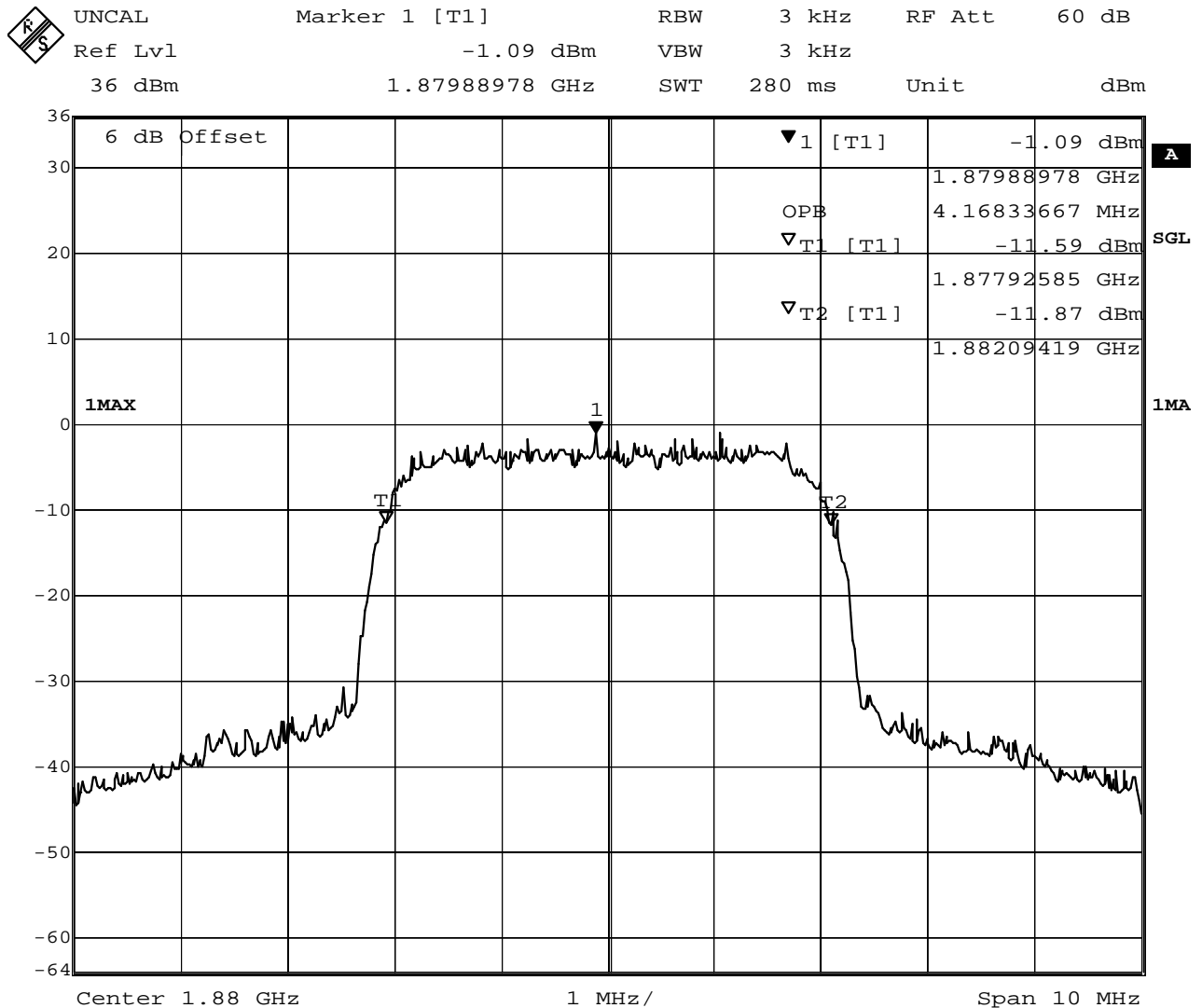
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Measurement diagram

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

**FCC Part 24 E
Occupied Bandwidth**

| | |
|-----------------------|--|
| EUT | USB - Stick |
| Model | GI0322 / SNR: FW4286900V |
| Approval Holder | Option Wireless Germany GmbH |
| Temperature / Voltage | 23°C / V_USB: 5 V +/- 0.25 V |
| Test Site / Operator | Eurofins Product Service GmbH / G0M20806-1862 / Mr. Walter |
| Test Specification | FCC Part 24 Subpart E |
| Comment 1 | Channel: 9400 |
| Comment 2 | |
| Comment 3 | |



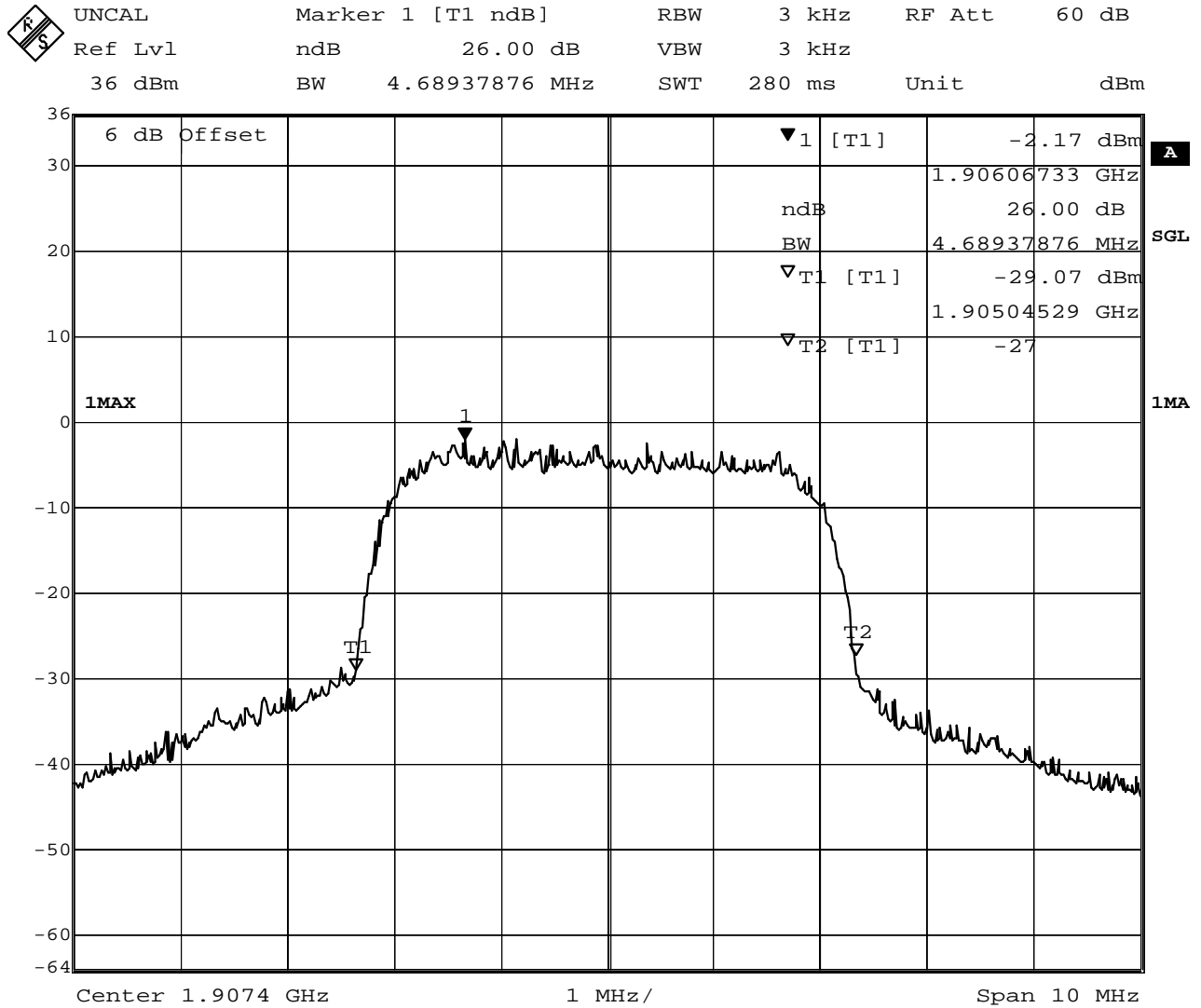
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Measurement diagram

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

**FCC Part 24 E
Emission Bandwidth**

| | |
|-----------------------|--|
| EUT | USB - Stick |
| Model | GI0322 / SNR: FW4286900V |
| Approval Holder | Option Wireless Germany GmbH |
| Temperature / Voltage | 23°C / V_USB: 5 V +/- 0.25 V |
| Test Site / Operator | Eurofins Product Service GmbH / G0M20806-1862 / Mr. Walter |
| Test Specification | FCC Part 24 Subpart E |
| Comment 1 | Channel: 9537 |
| Comment 2 | -26 dB Emission Bandwidth |
| Comment 3 | |



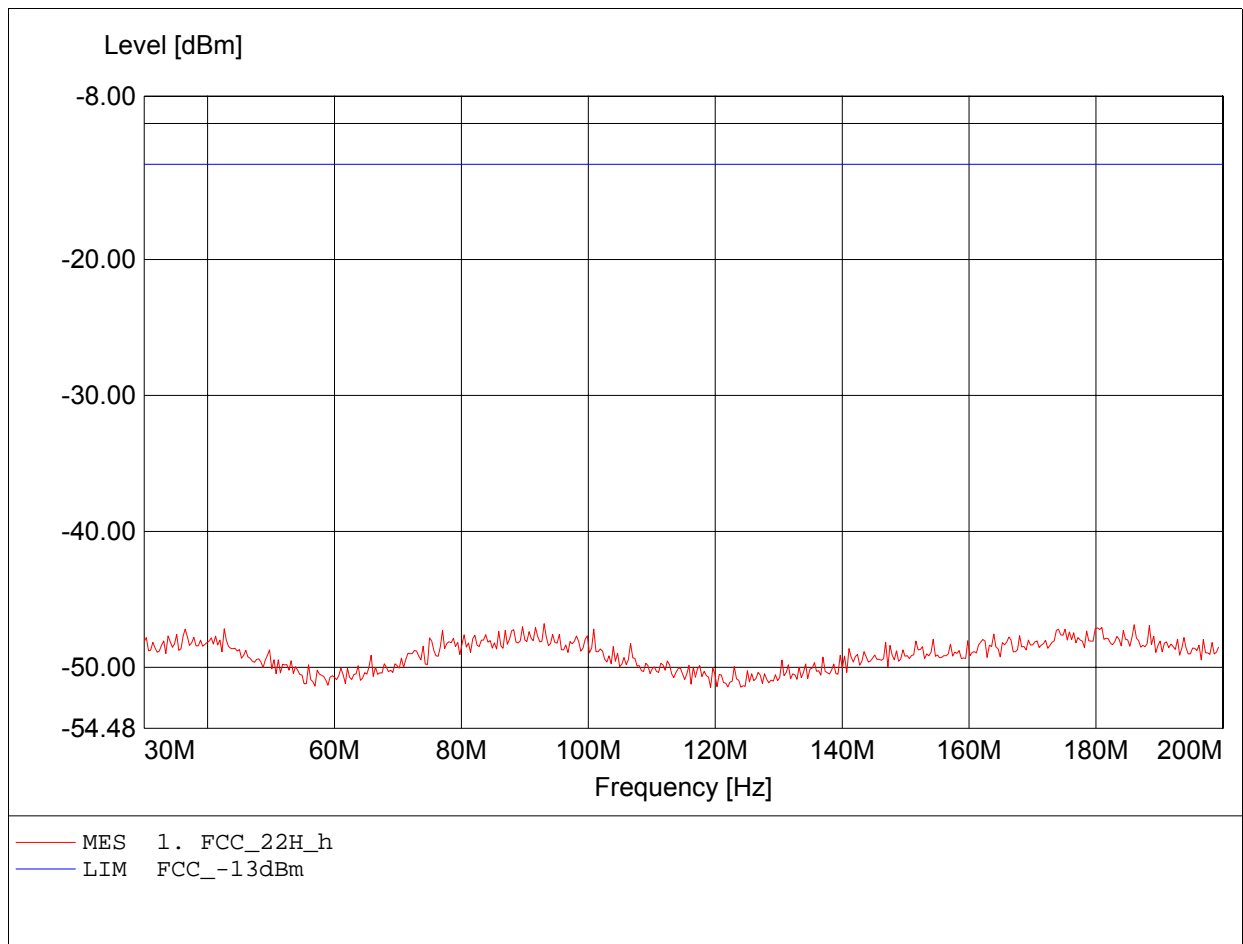
Measurement diagram

Annex E

Spurious emission radiated

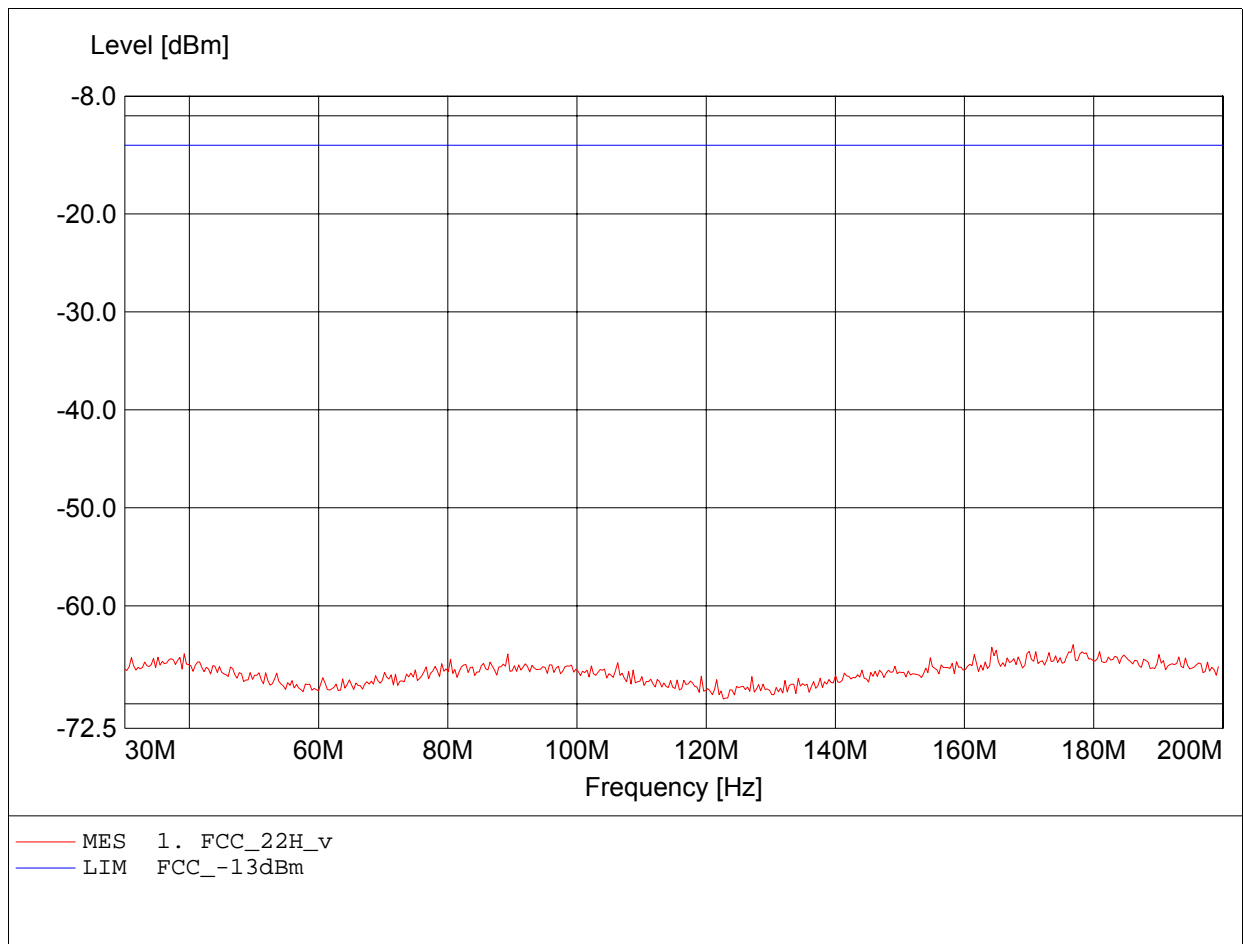
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4133 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 93.026MHz, Pmax: -46.78dBm, RBW: 100kHz



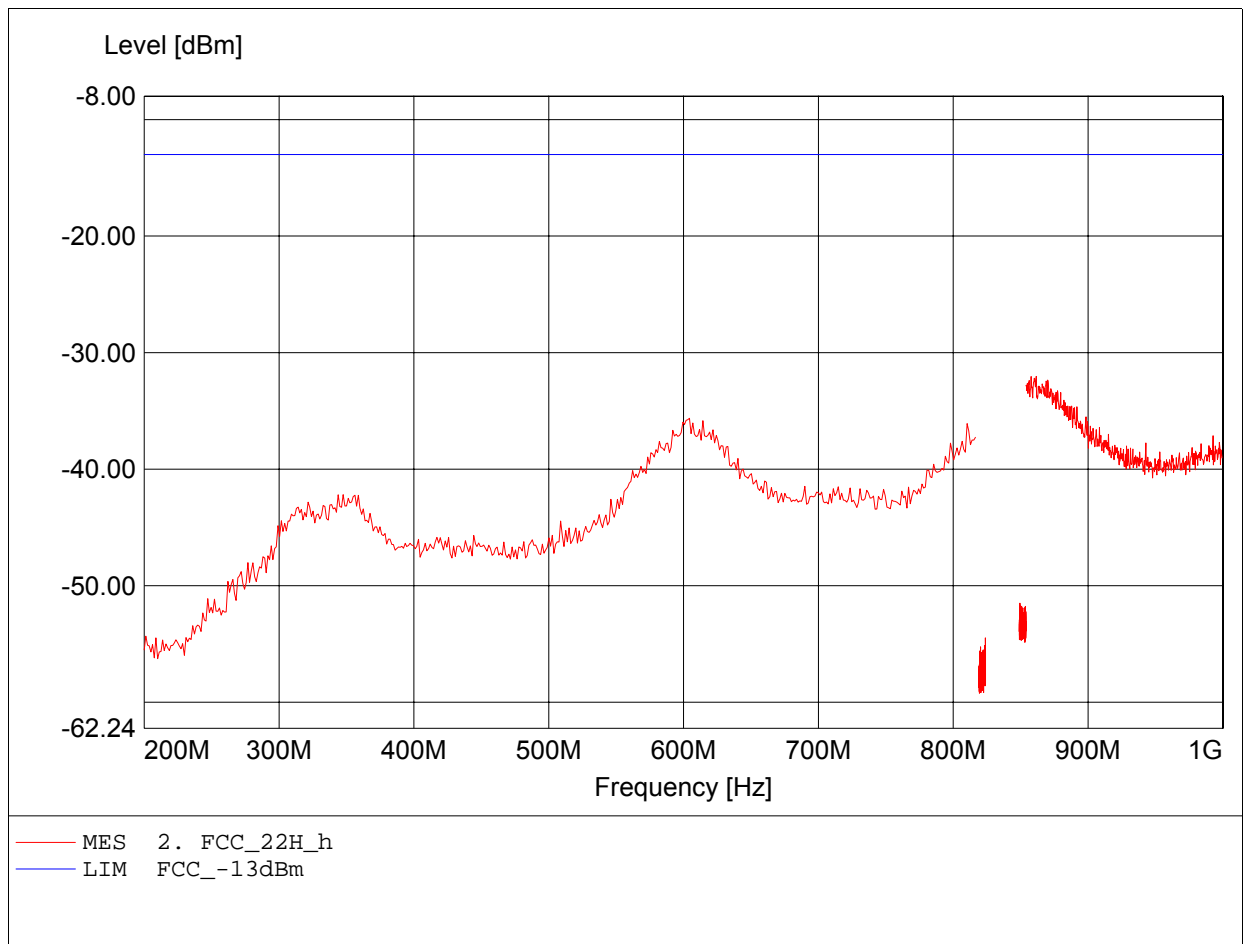
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4133 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 176.834MHz, Pmax: -63.95dBm, RBW: 100kHz



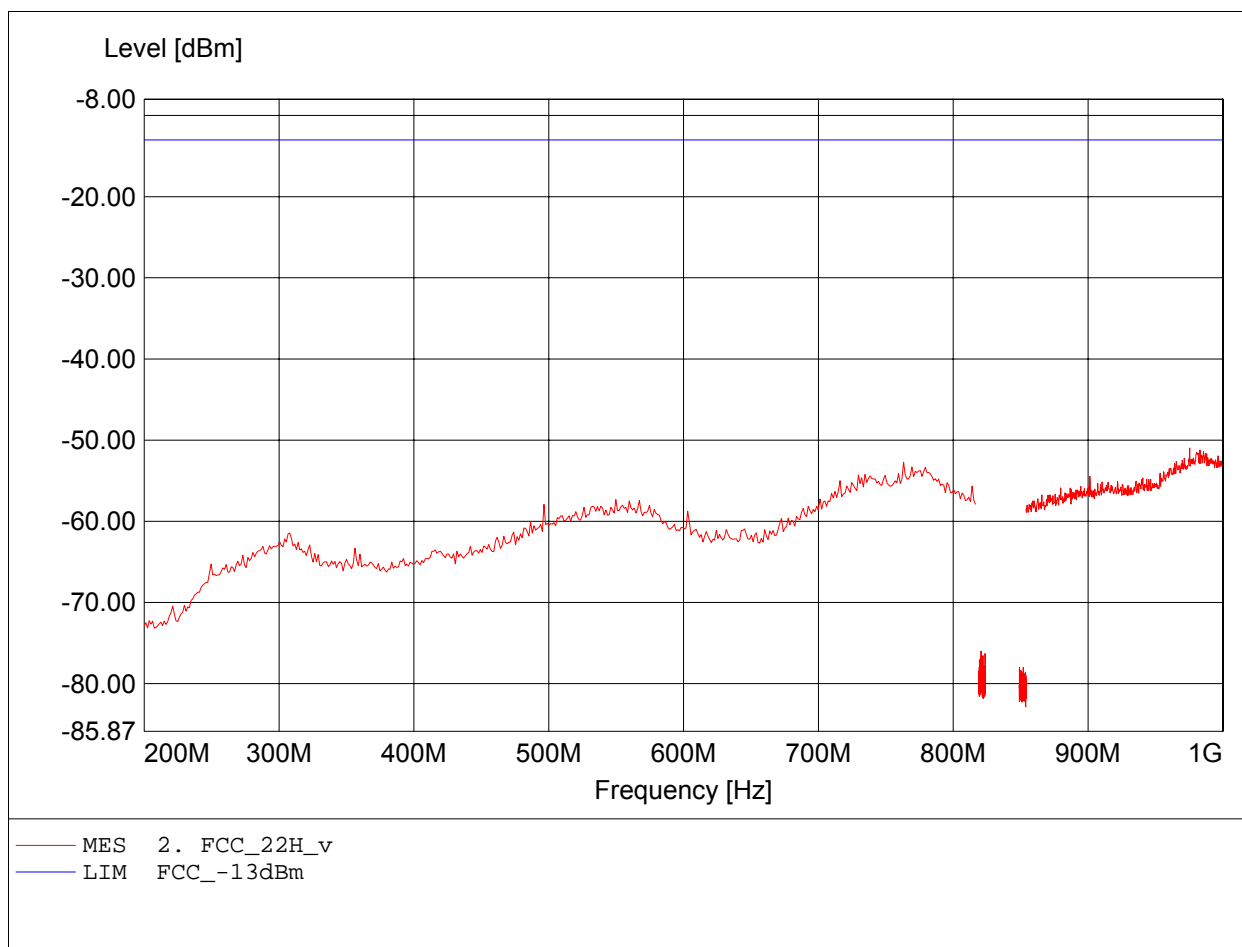
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4133 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Comment 2: Freq: 861.607MHz, Pmax: -32.04dBm, RBW: 100kHz



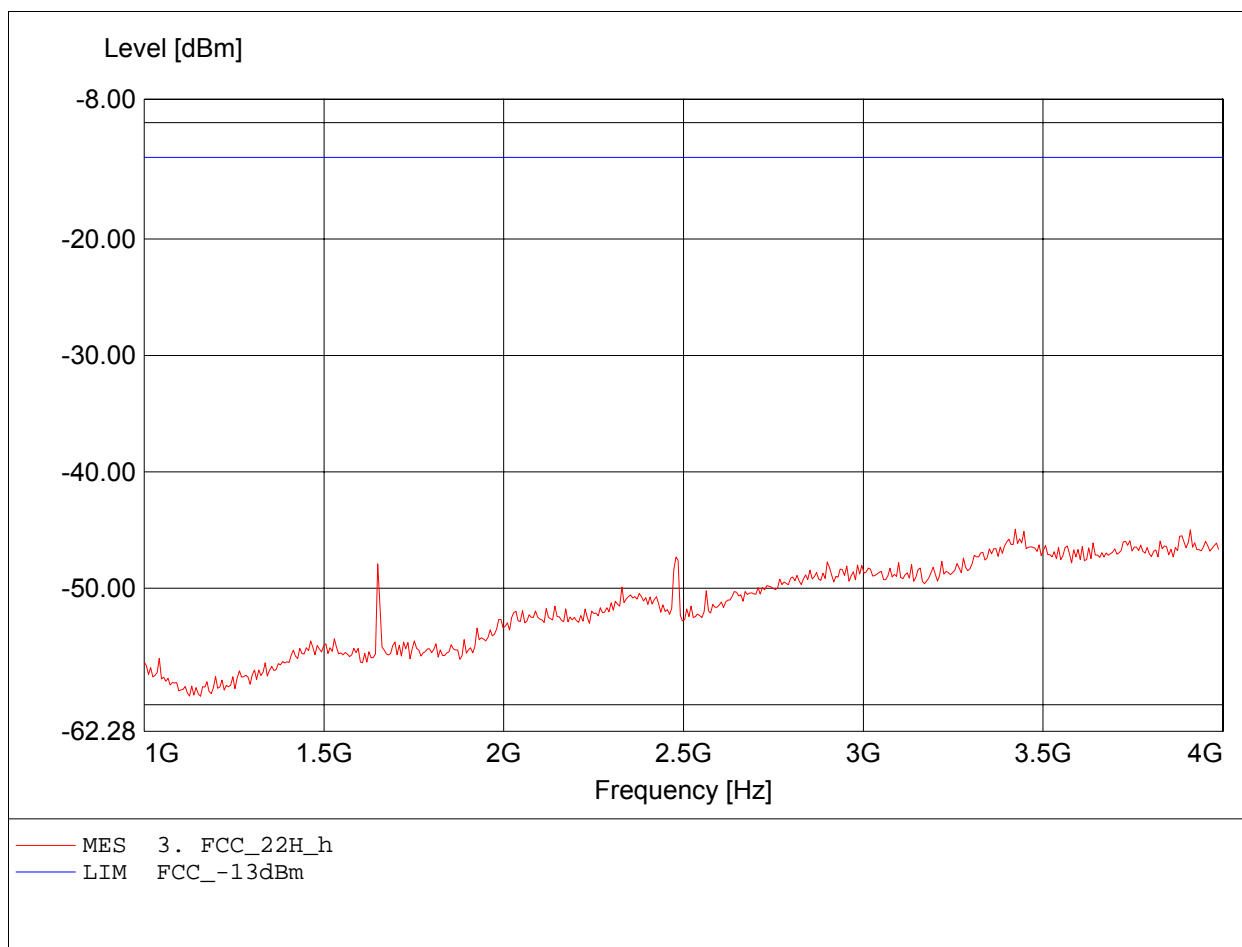
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4133 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Comment 2: Freq: 975.423MHz, Pmax: -50.97dBm, RBW: 100kHz



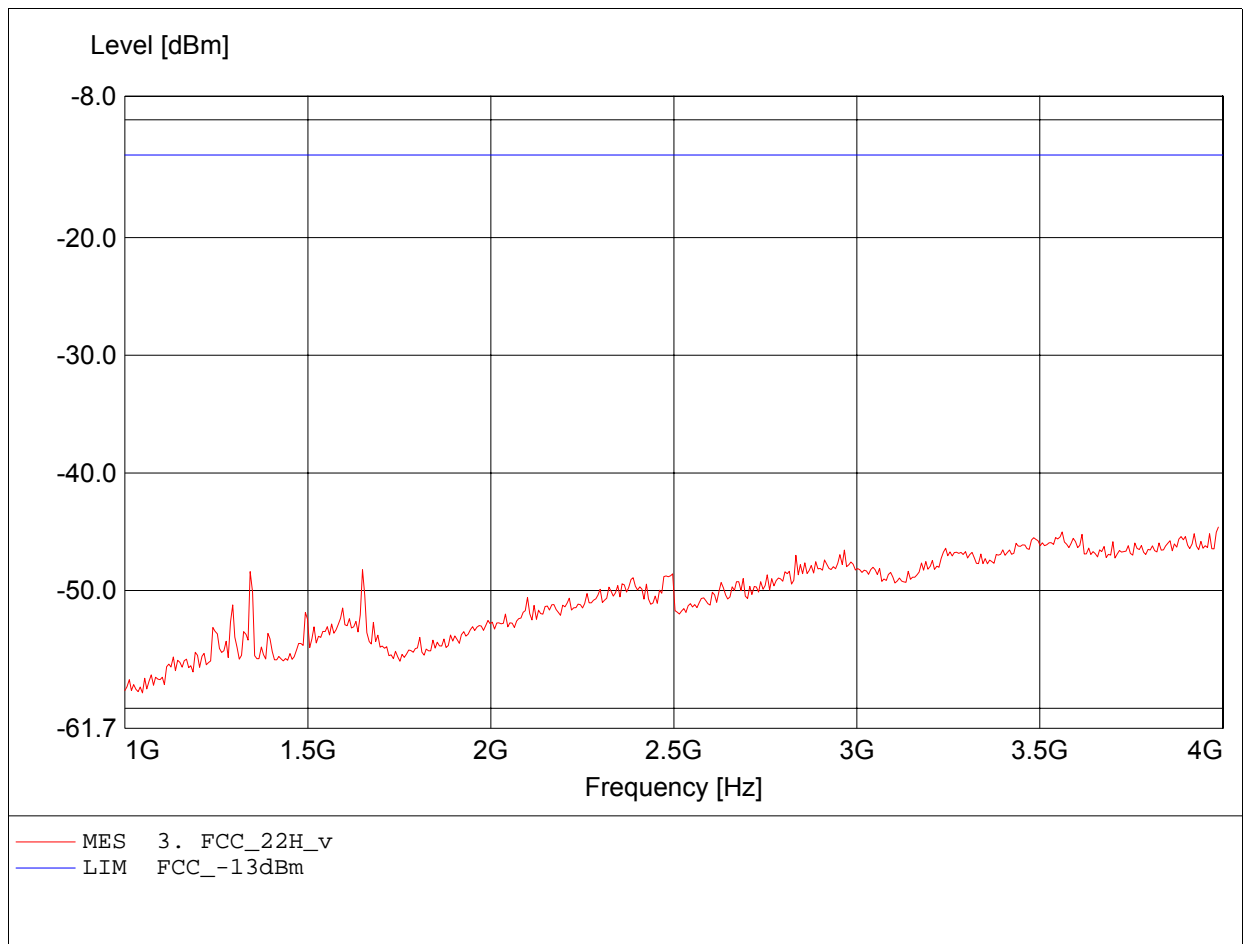
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4133 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 3.423GHz, Pmax: -44.93dBm, RBW: 1MHz



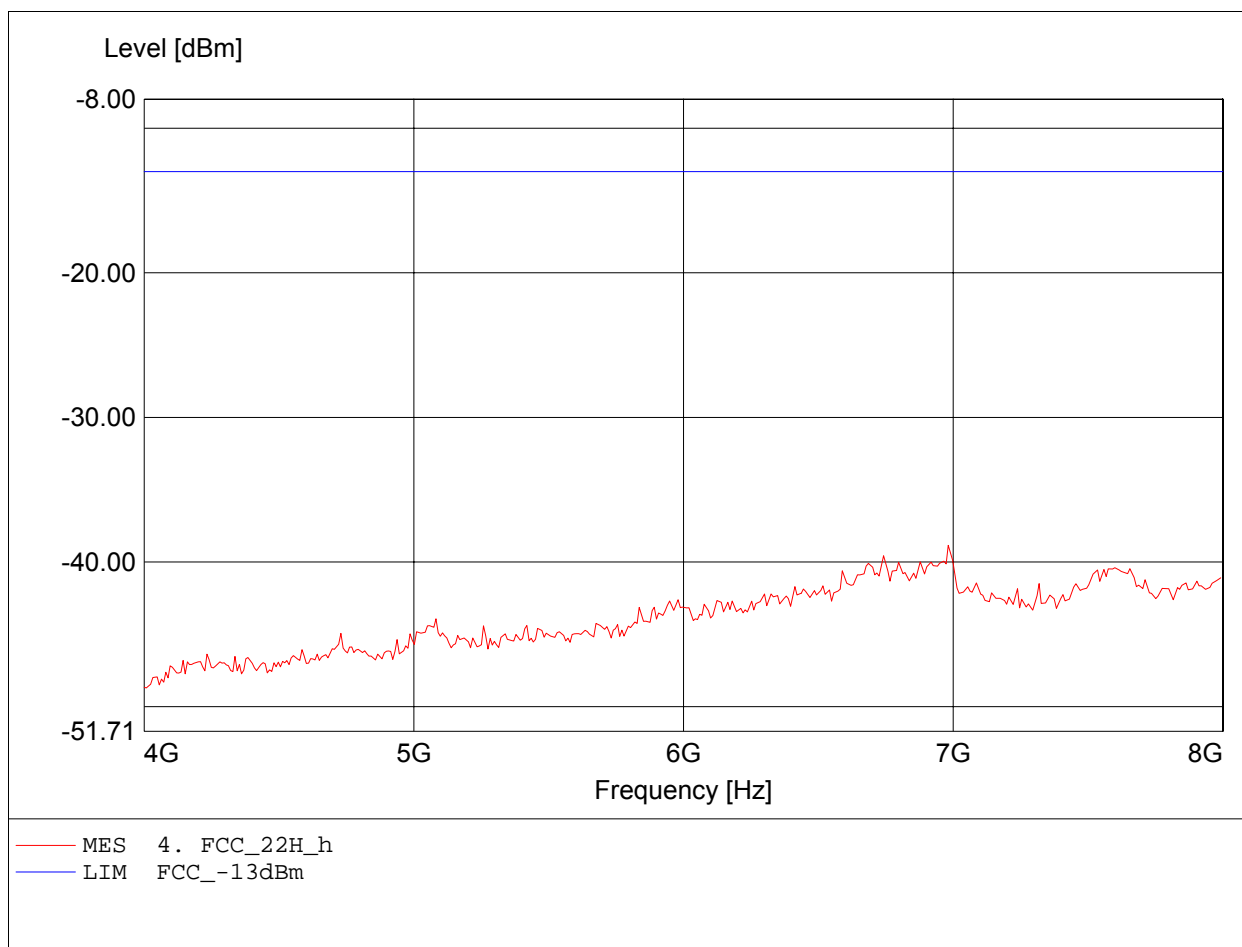
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4133 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 3.988GHz, Pmax: -44.61dBm, RBW: 1MHz



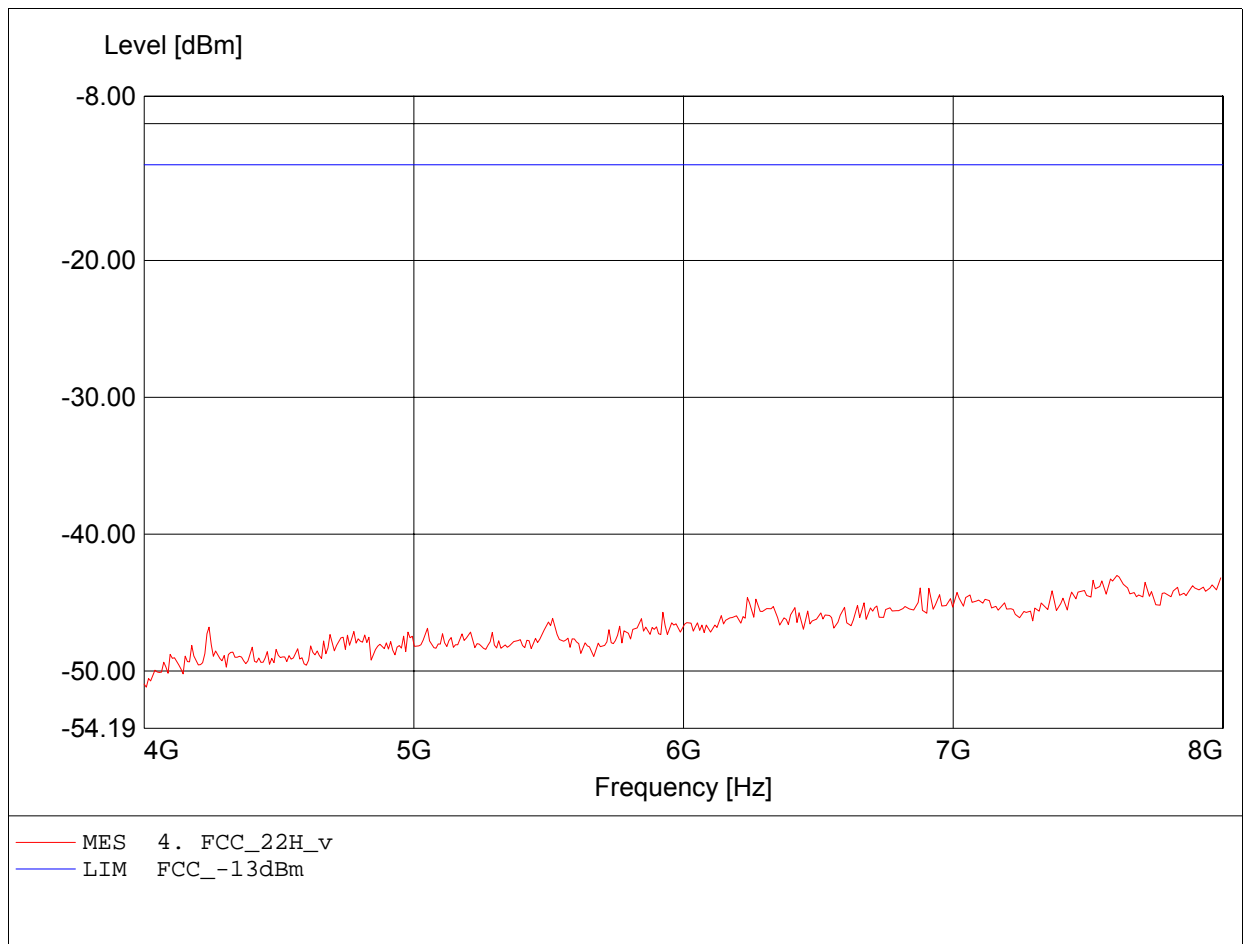
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4133 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 6.982GHz, Pmax: -38.85dBm, RBW: 1MHz



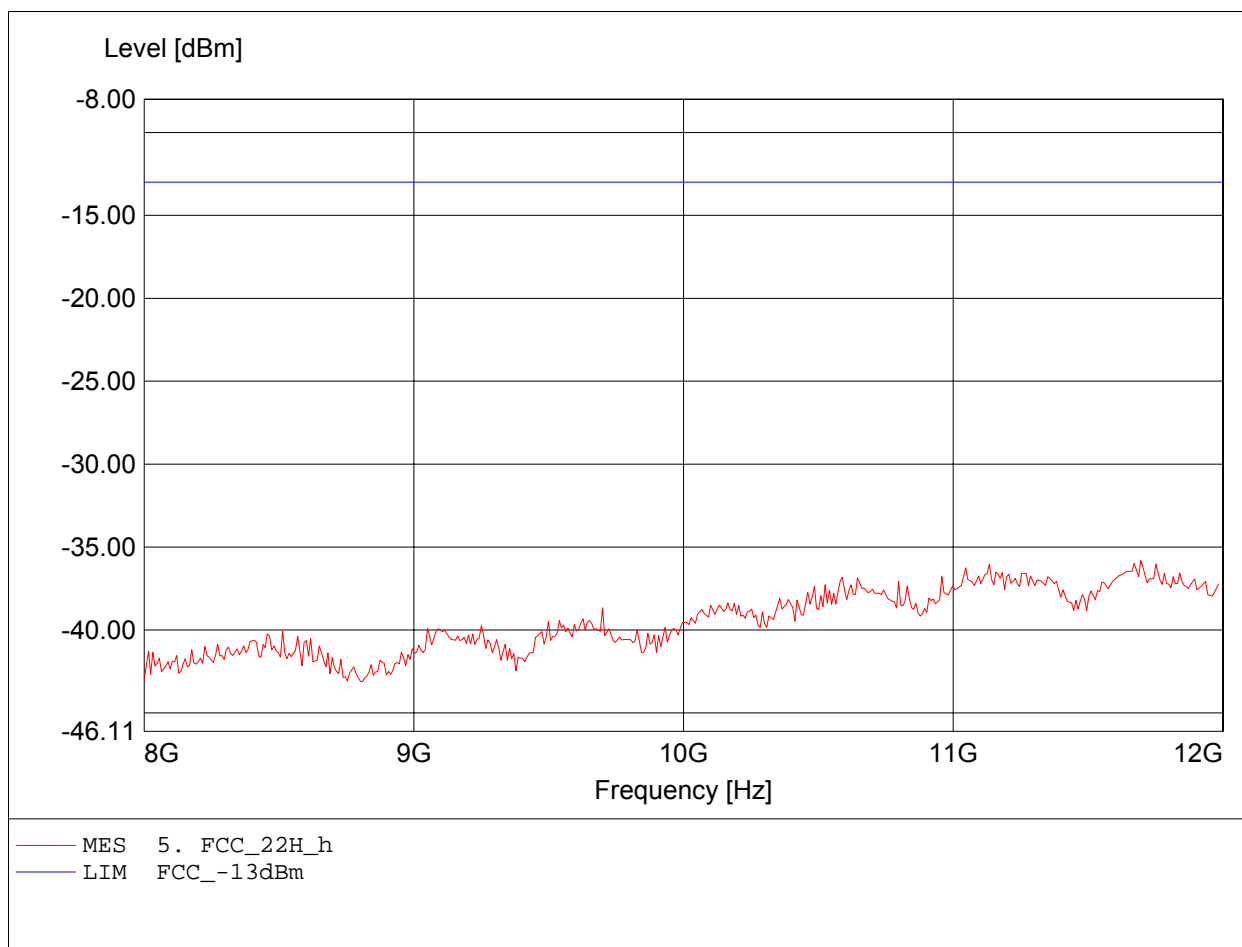
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4133 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.607GHz, Pmax: -43.02dBm, RBW: 1MHz



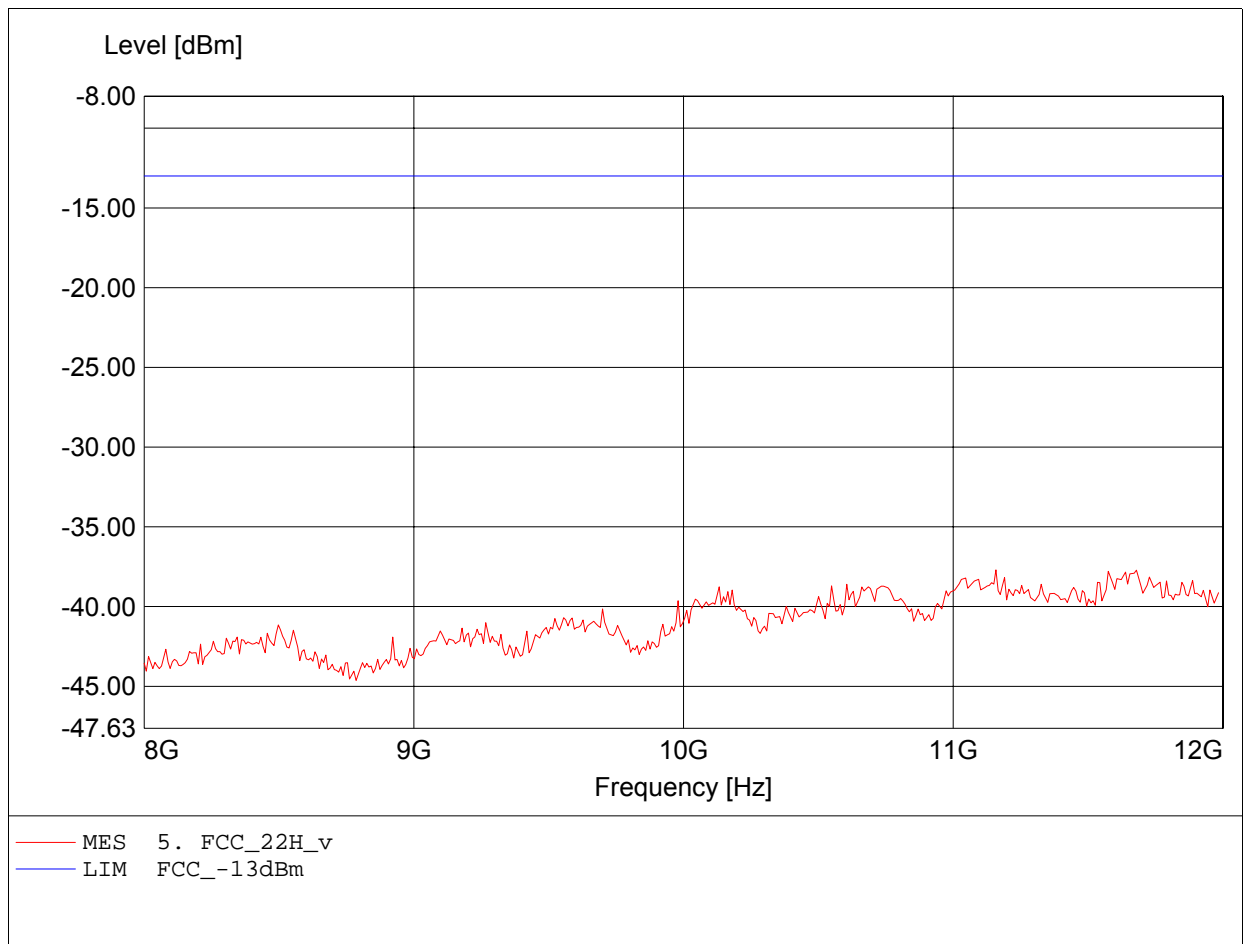
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4133 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.695GHz, Pmax: -35.81dBm, RBW: 1MHz



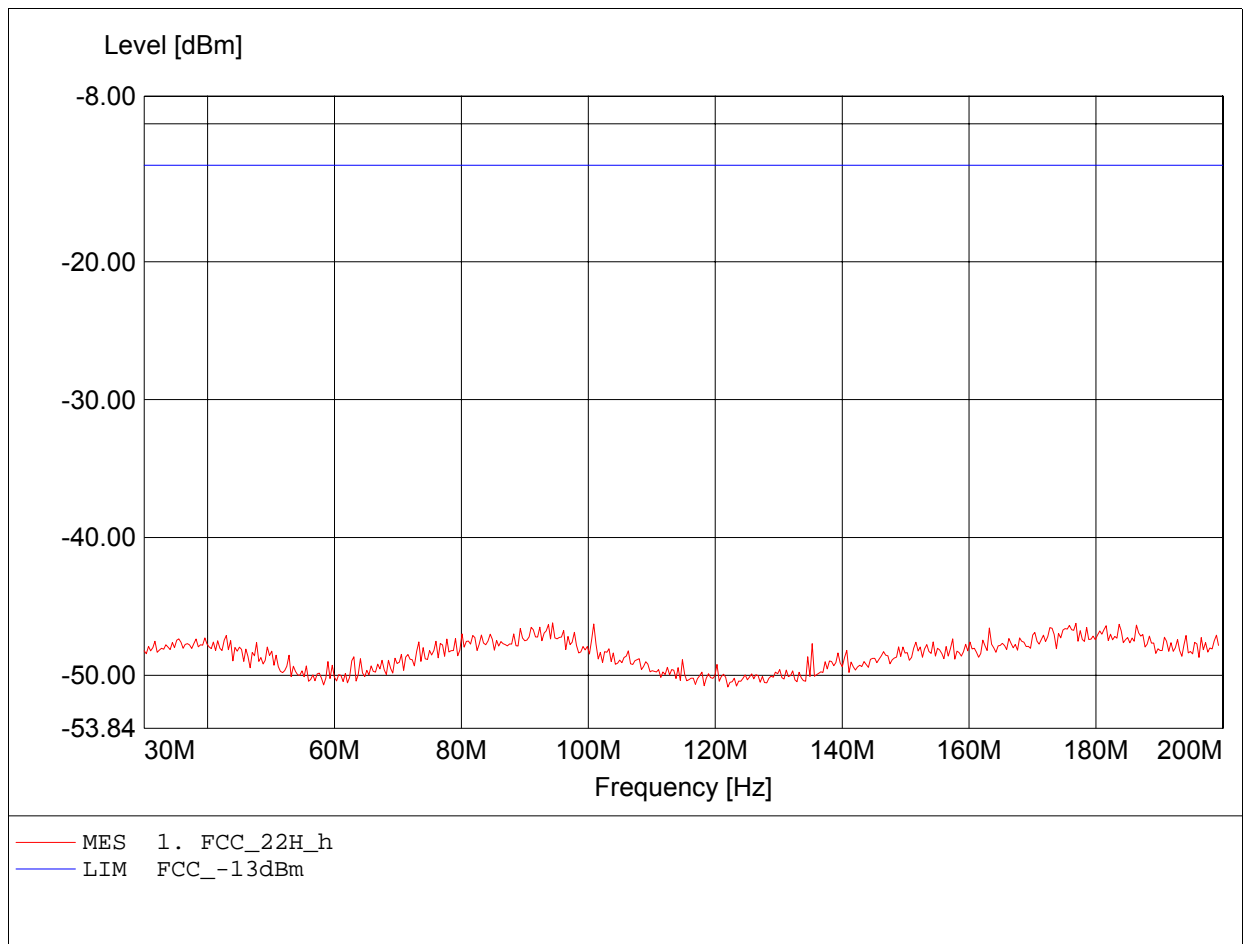
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4133 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.158GHz, Pmax: -37.69dBm, RBW: 1MHz



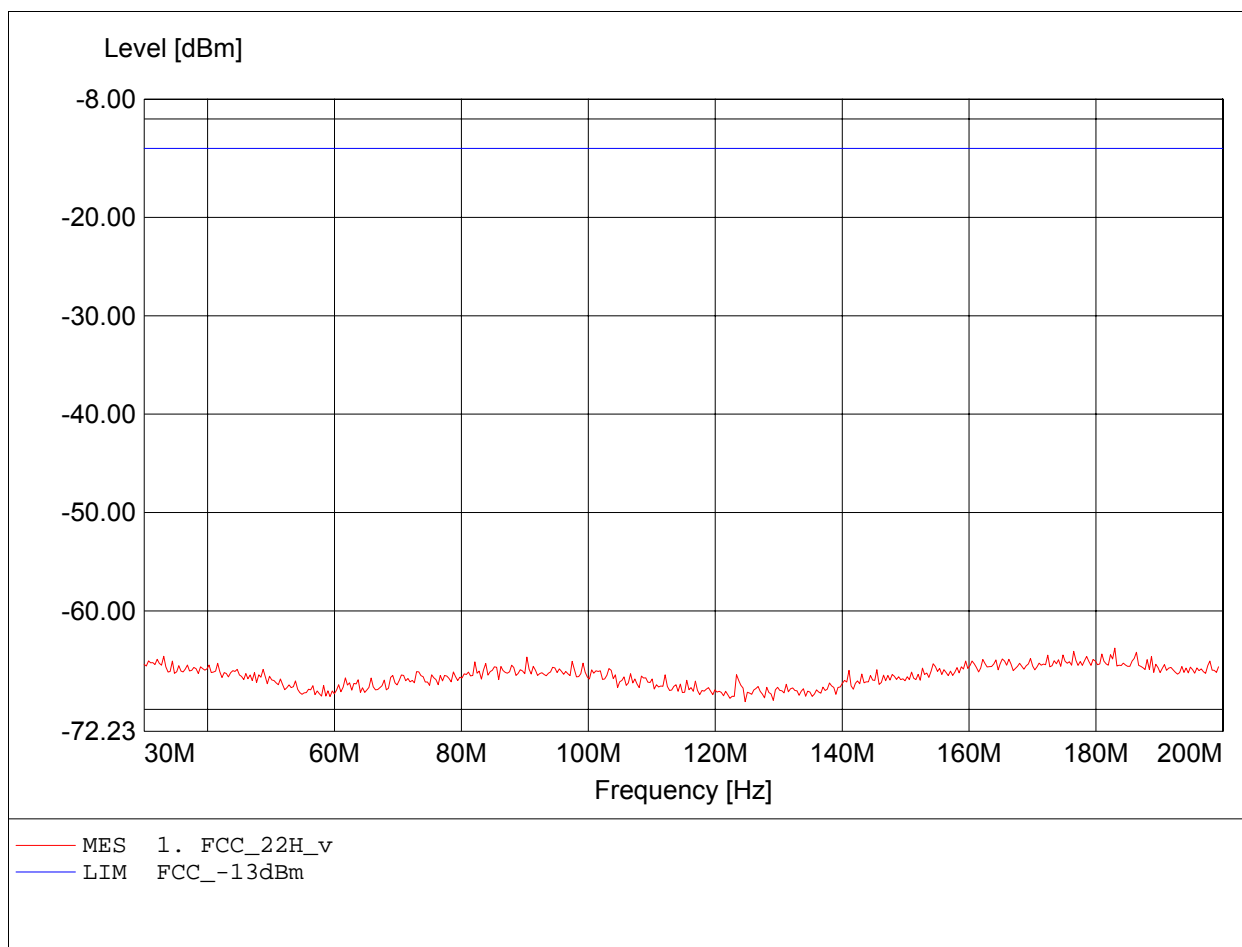
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 94.389MHz, Pmax: -46.19dBm, RBW: 100kHz



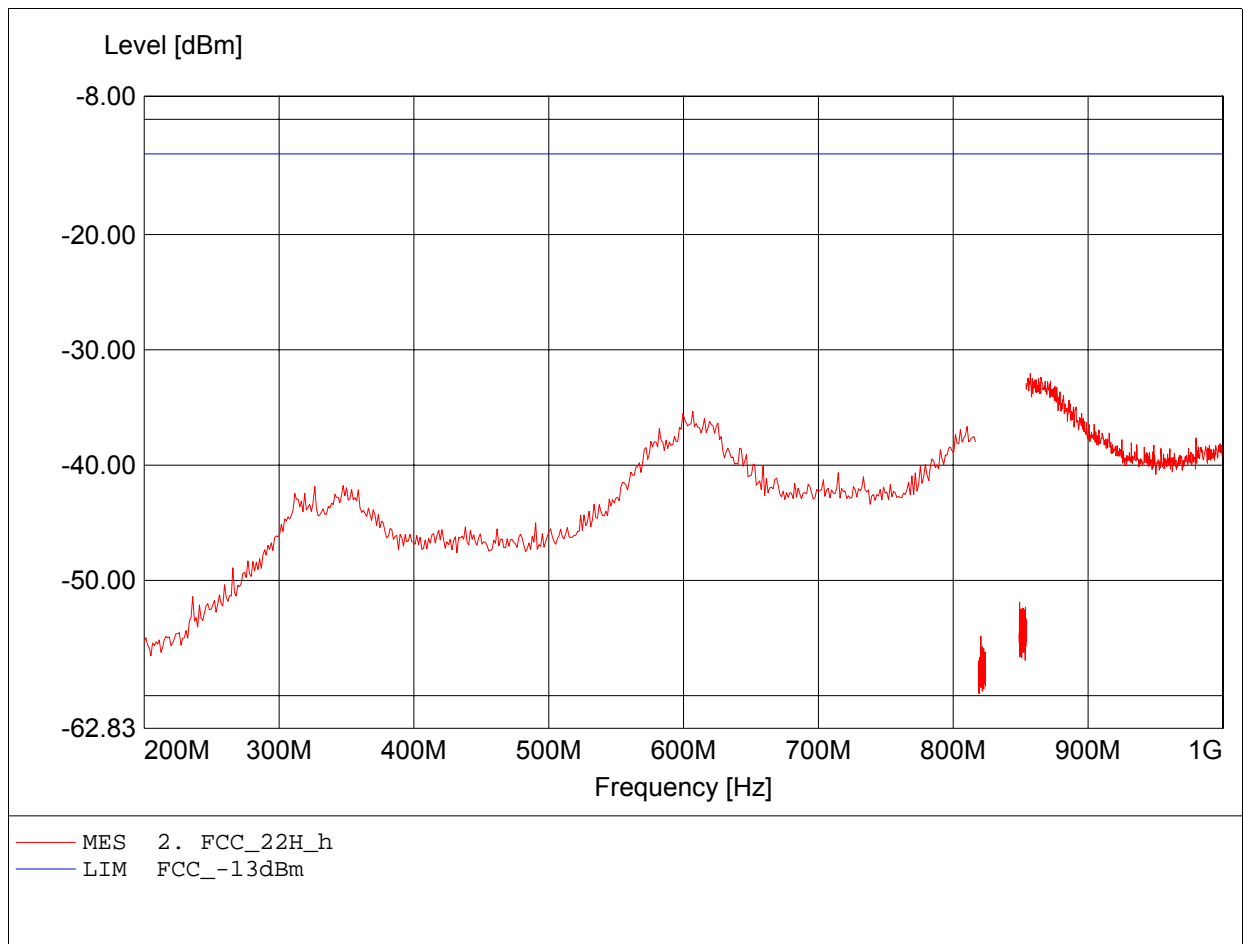
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 182.966MHz, Pmax: -63.76dBm, RBW: 100kHz



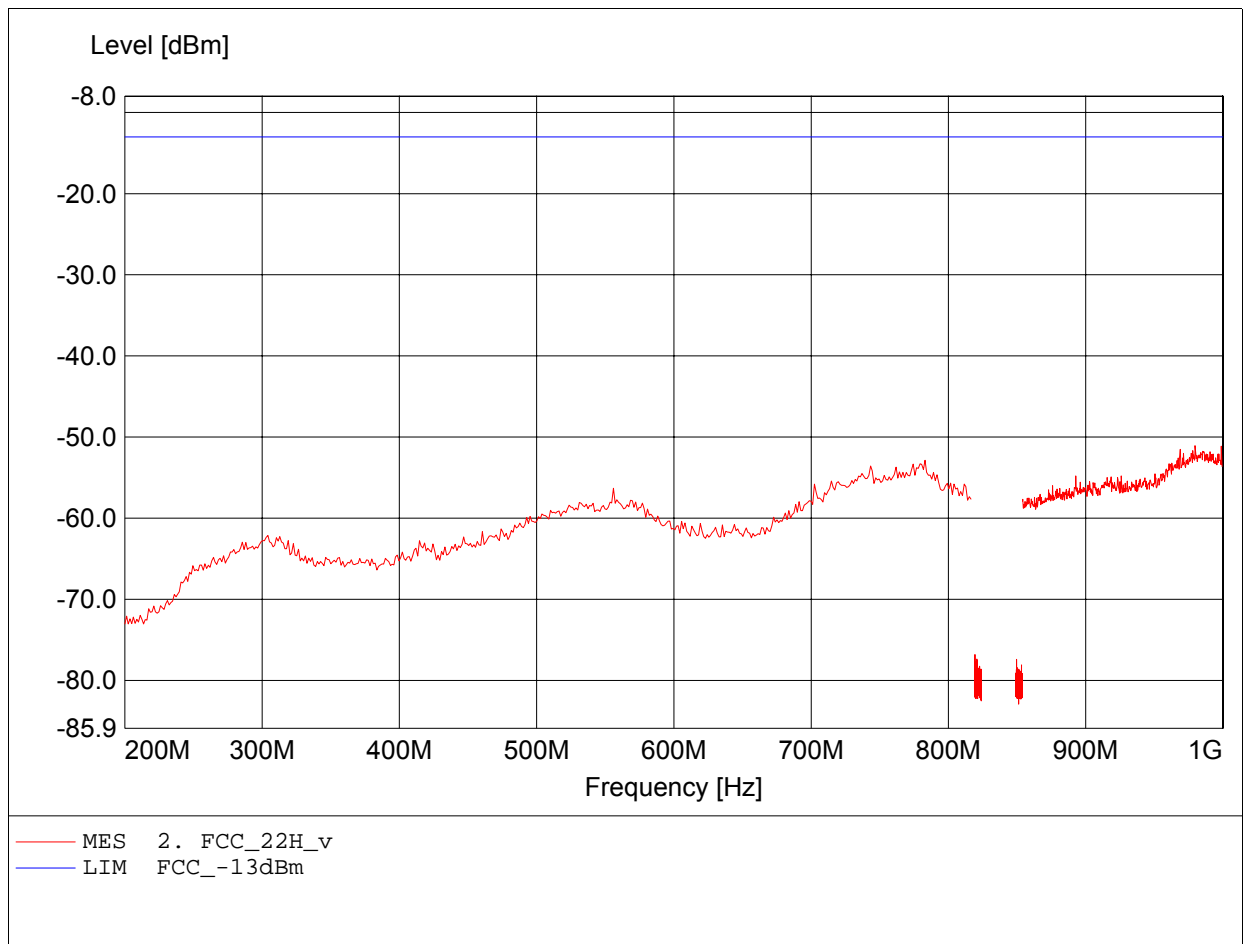
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Comment 2: Freq: 857.218MHz, Pmax: -32.04dBm, RBW: 100kHz



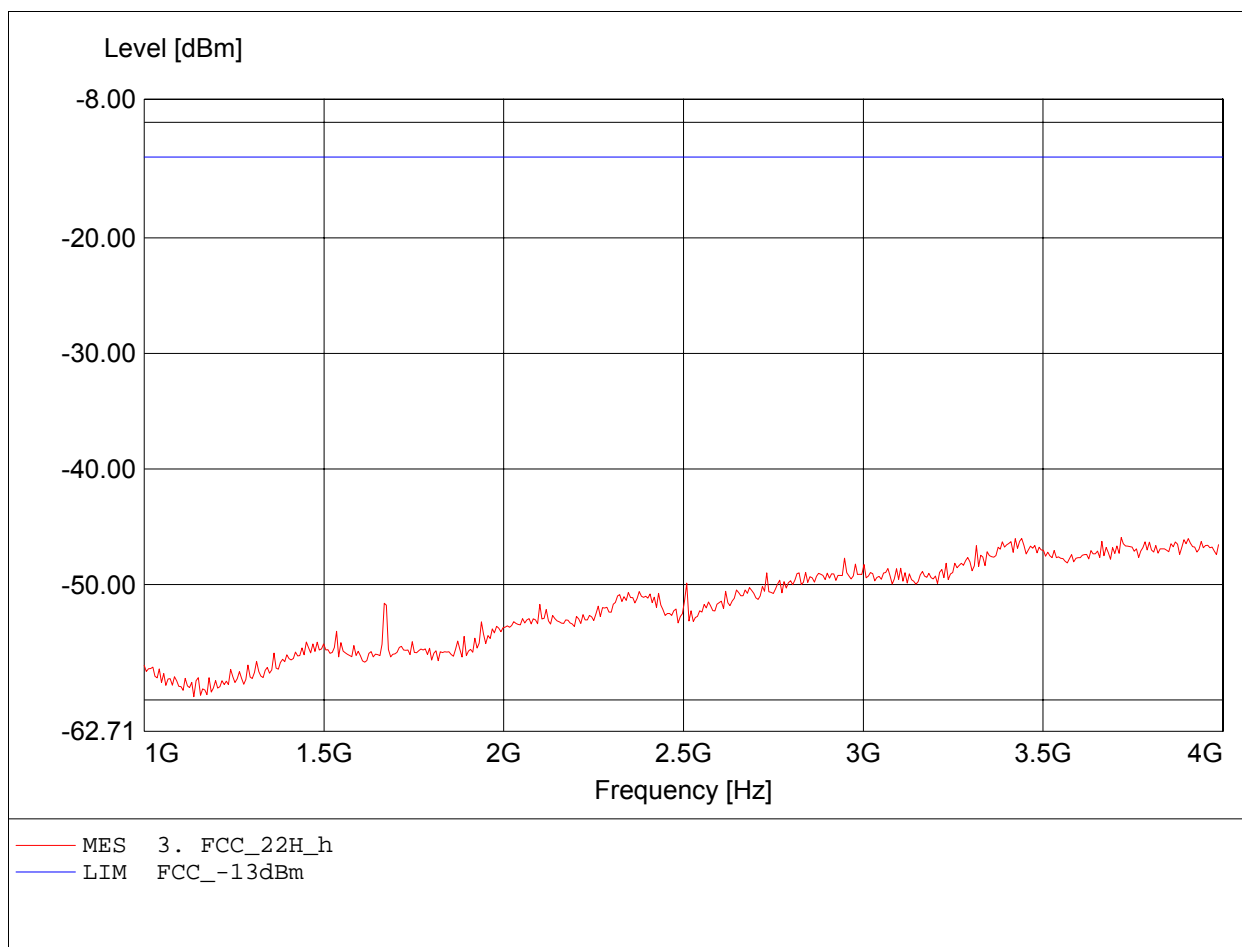
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Comment 2: Freq: 979.812MHz, Pmax: -51.06dBm, RBW: 100kHz



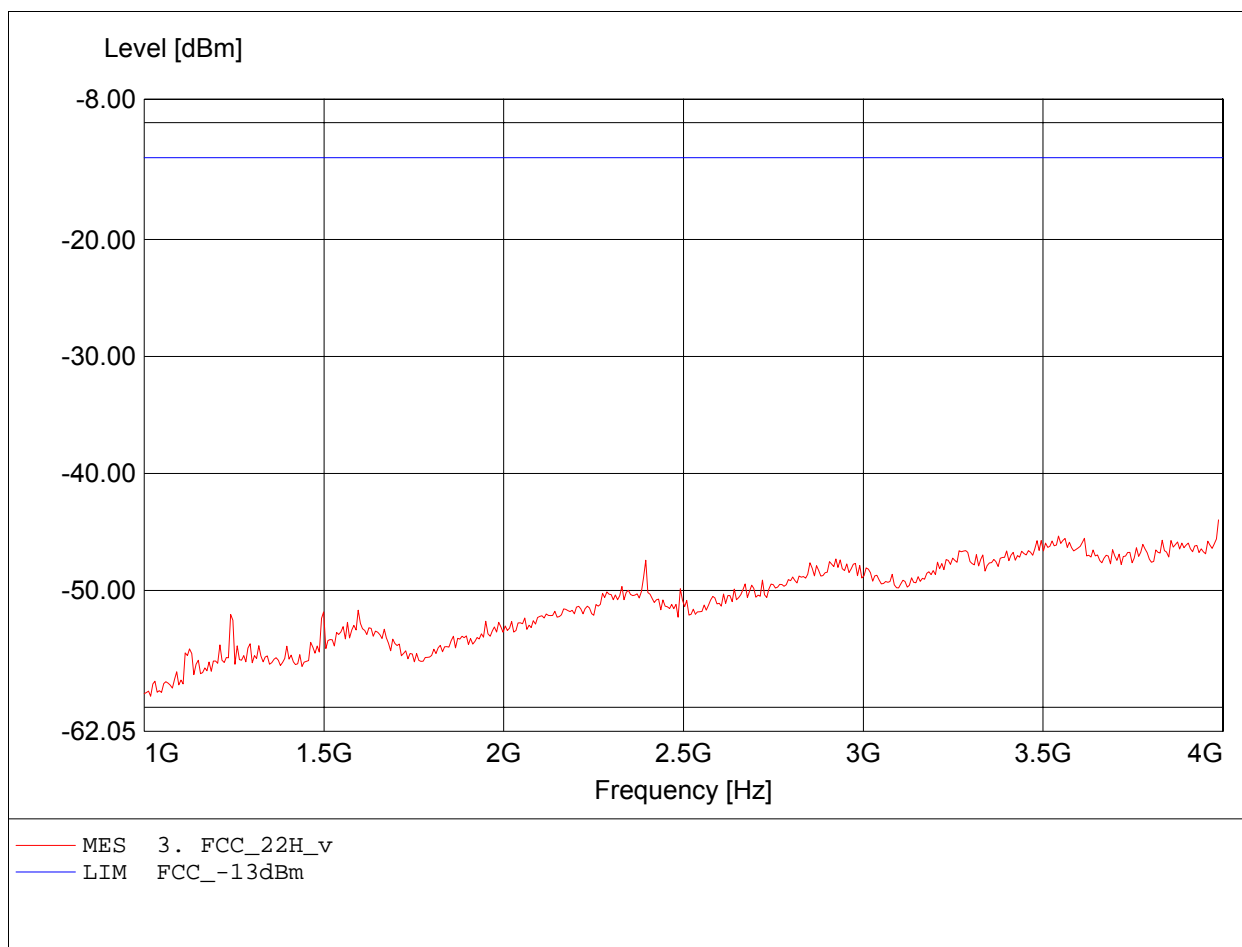
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 3.717GHz, Pmax: -45.93dBm, RBW: 1MHz



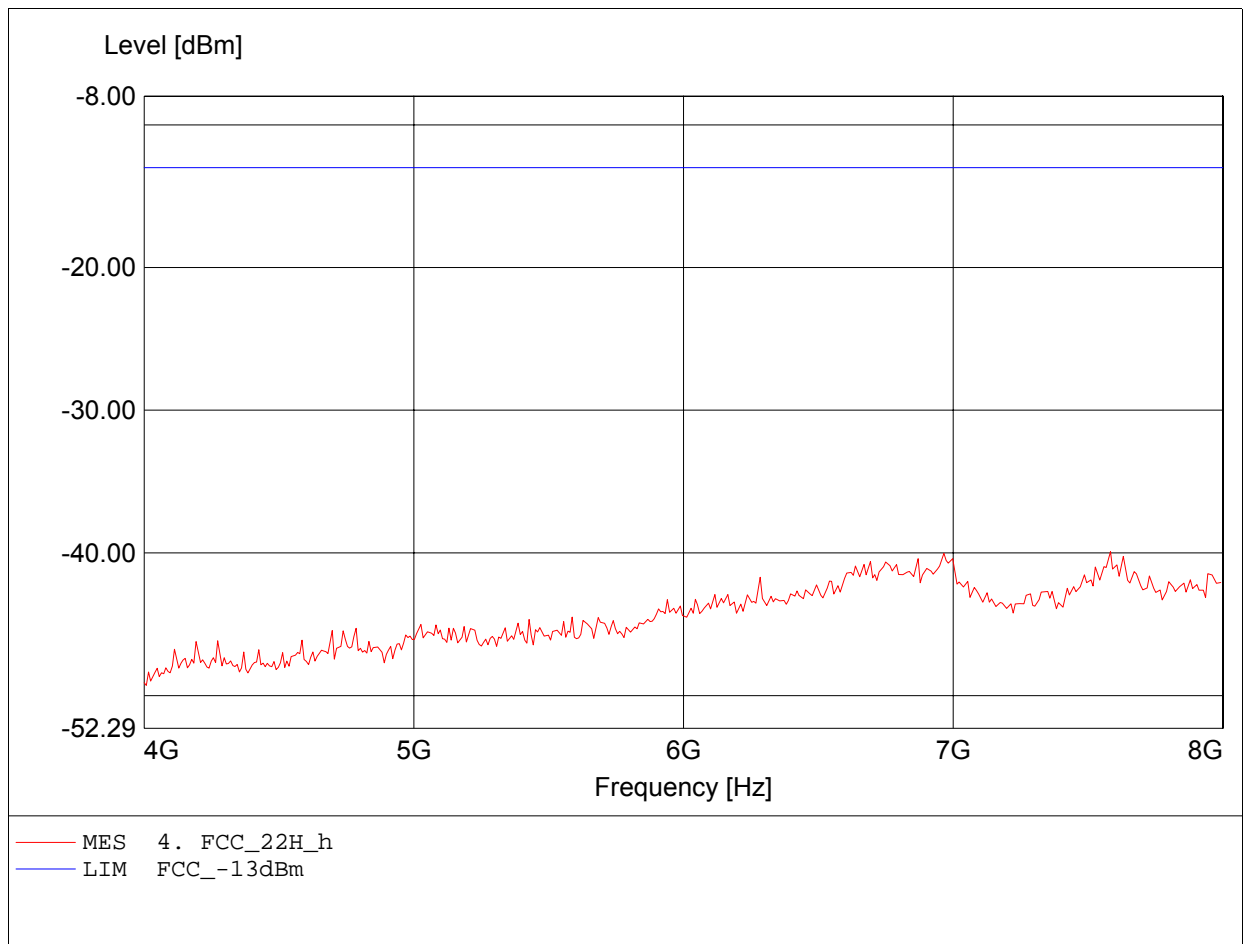
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 3.988GHz, Pmax: -43.96dBm, RBW: 1MHz



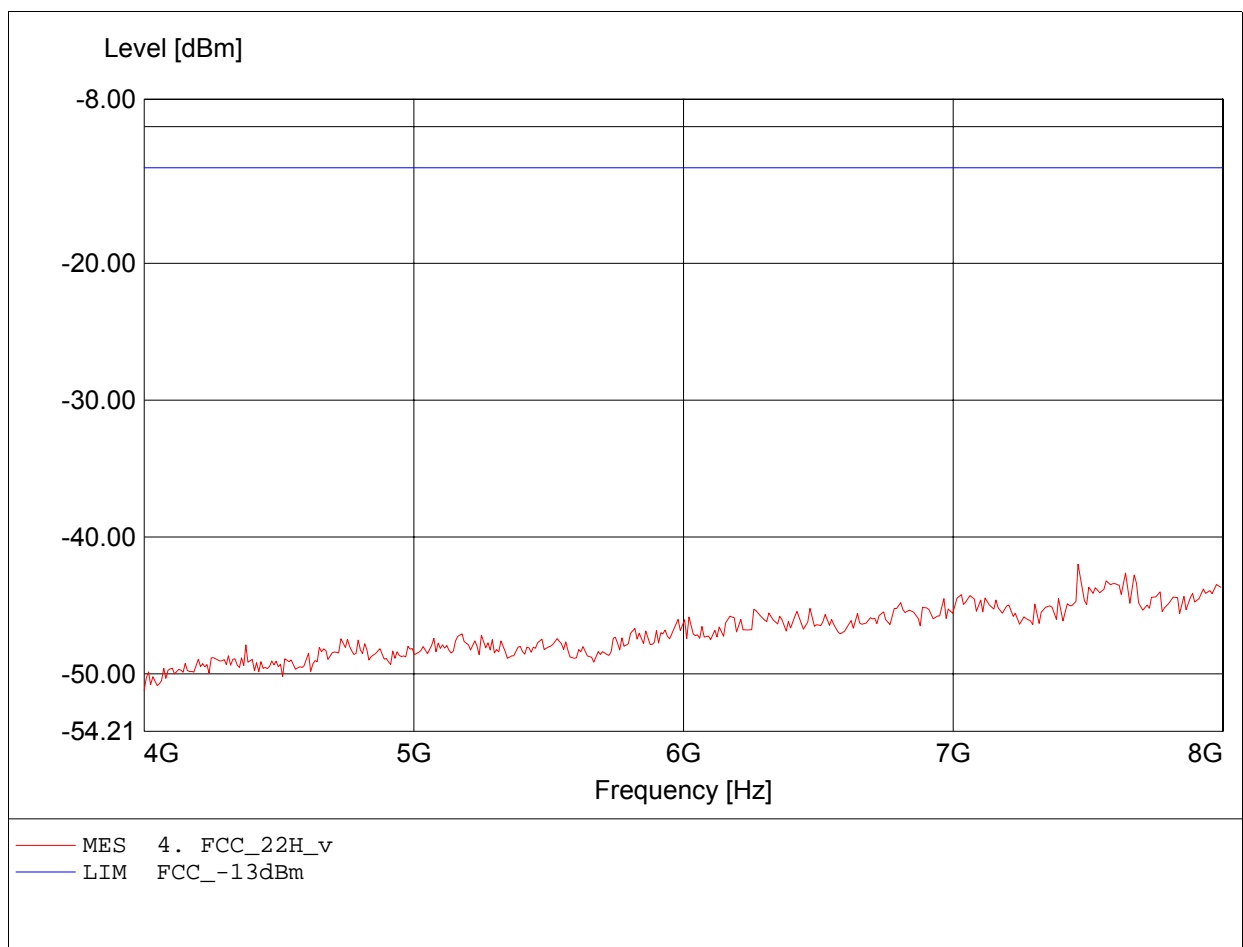
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.583GHz, Pmax: -39.92dBm, RBW: 1MHz



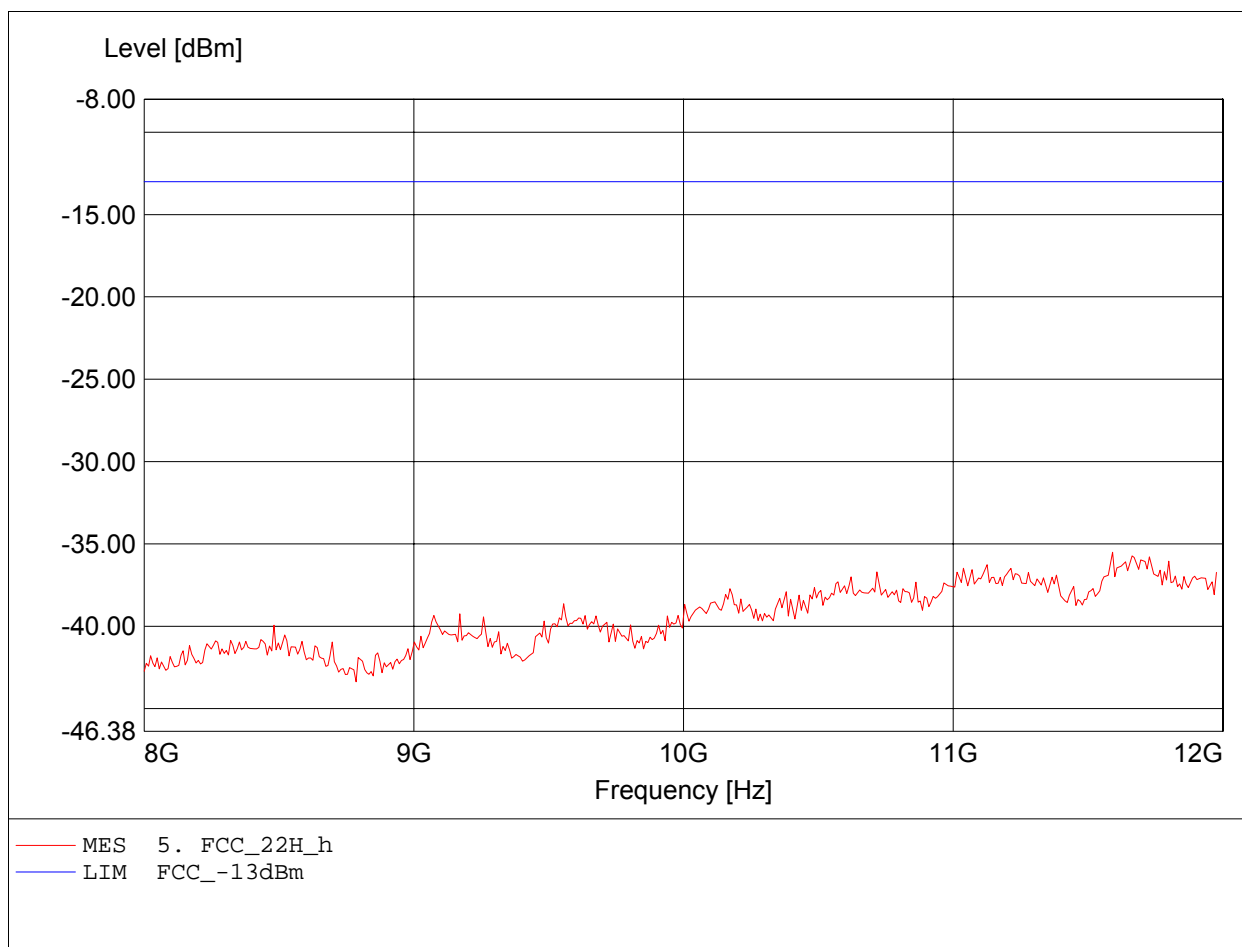
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.463GHz, Pmax: -41.99dBm, RBW: 1MHz



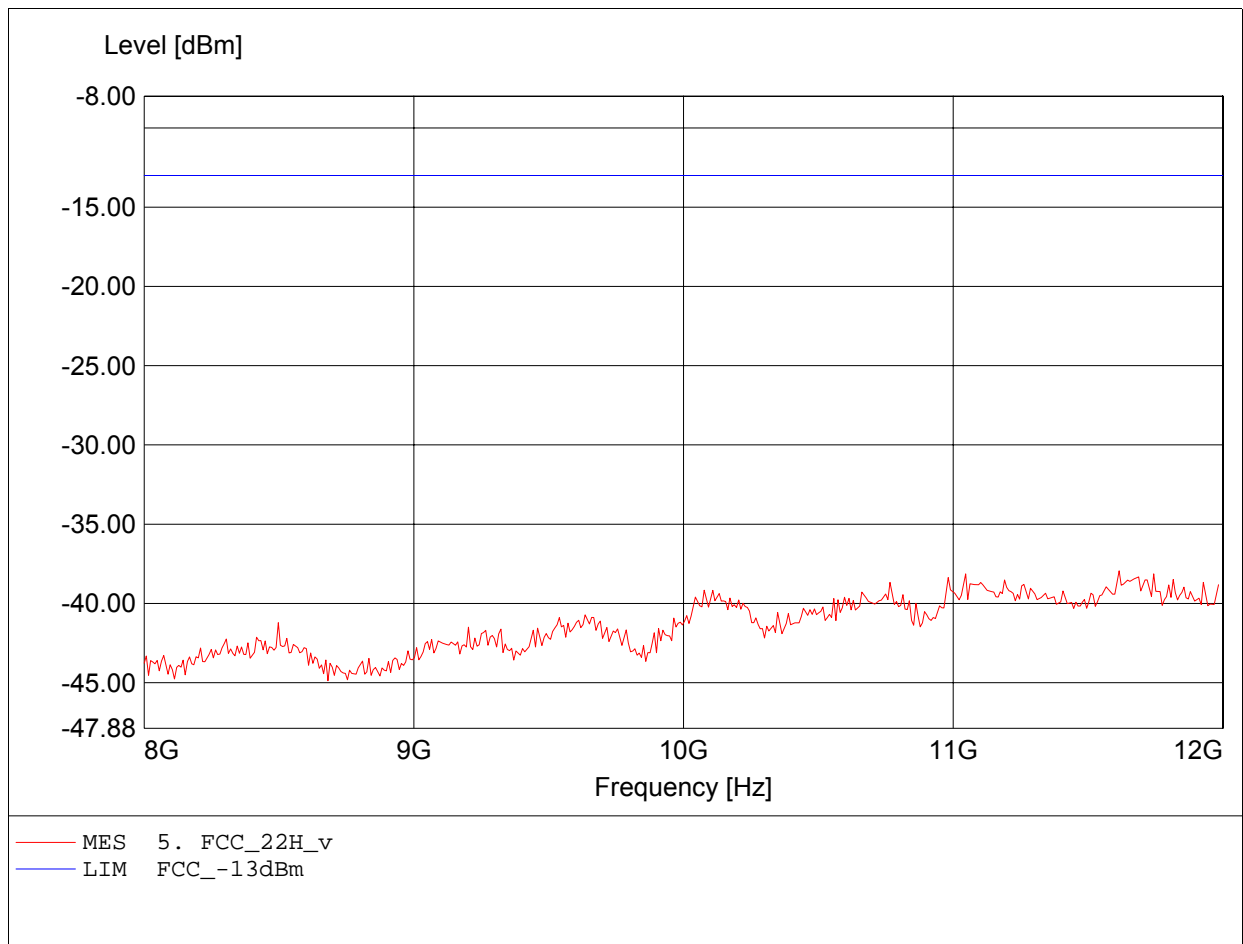
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.591GHz, Pmax: -35.51dBm, RBW: 1MHz



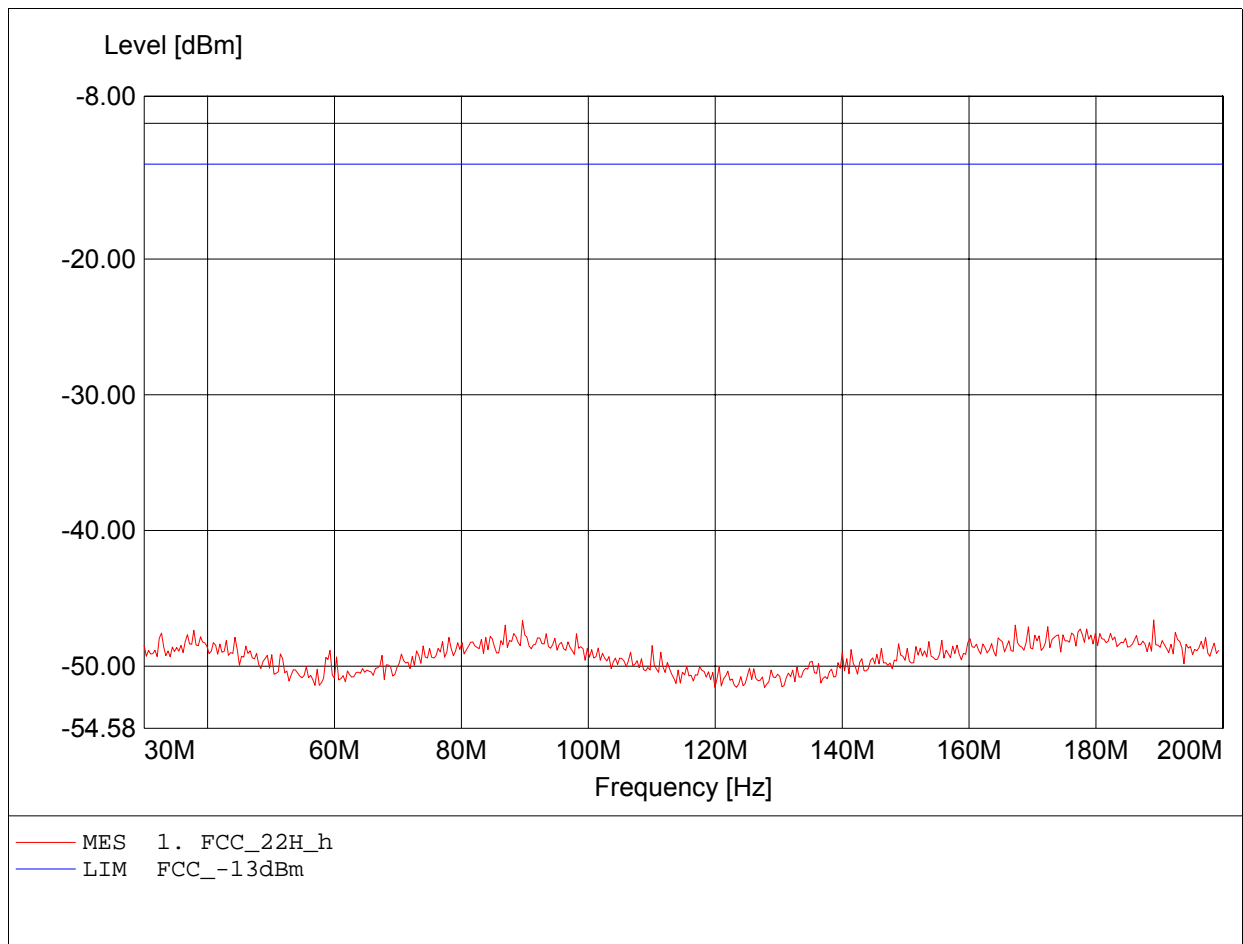
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.615GHz, Pmax: -37.95dBm, RBW: 1MHz



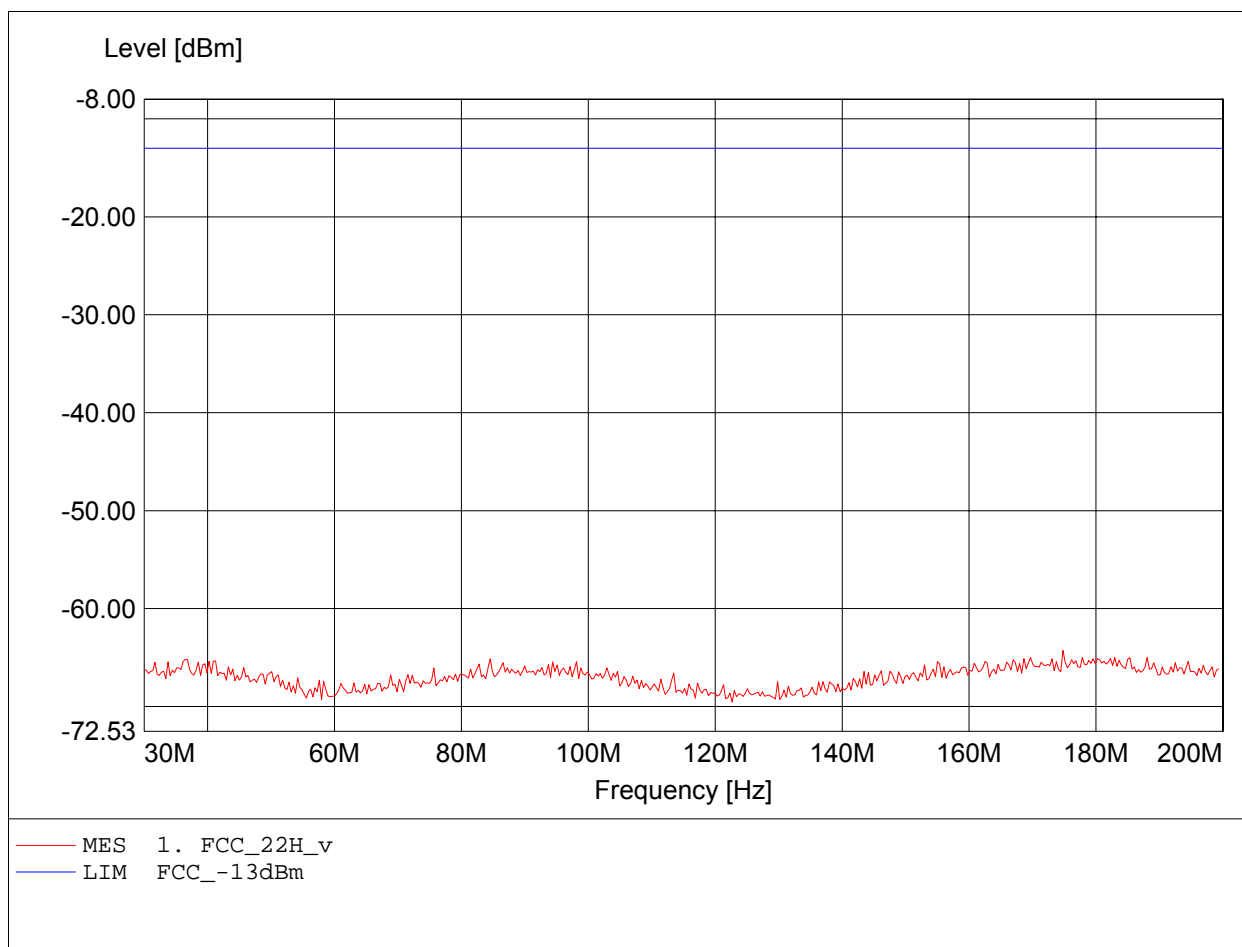
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4232 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 189.098MHz, Pmax: -46.60dBm, RBW: 100kHz



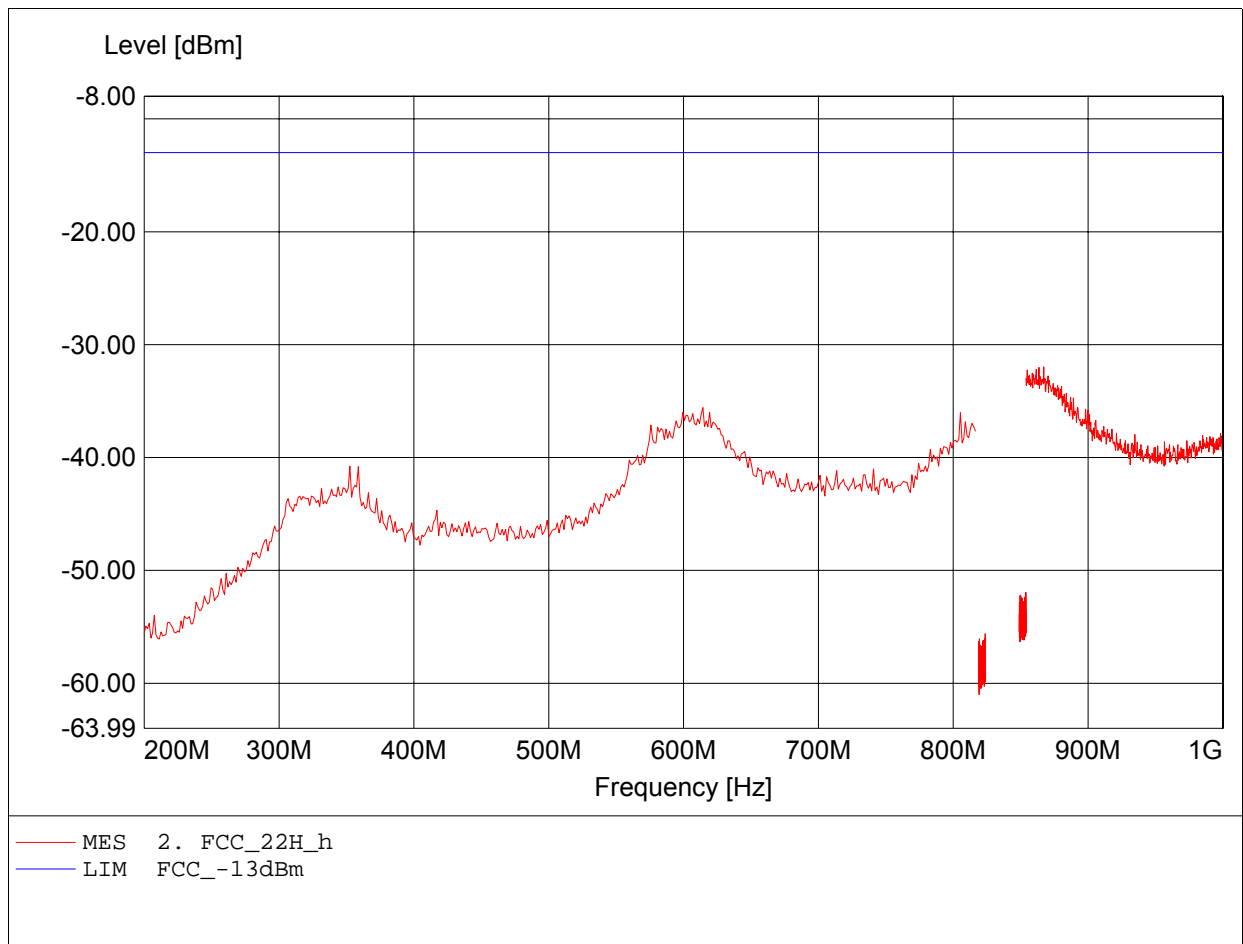
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4232 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 174.790MHz, Pmax: -64.28dBm, RBW: 100kHz



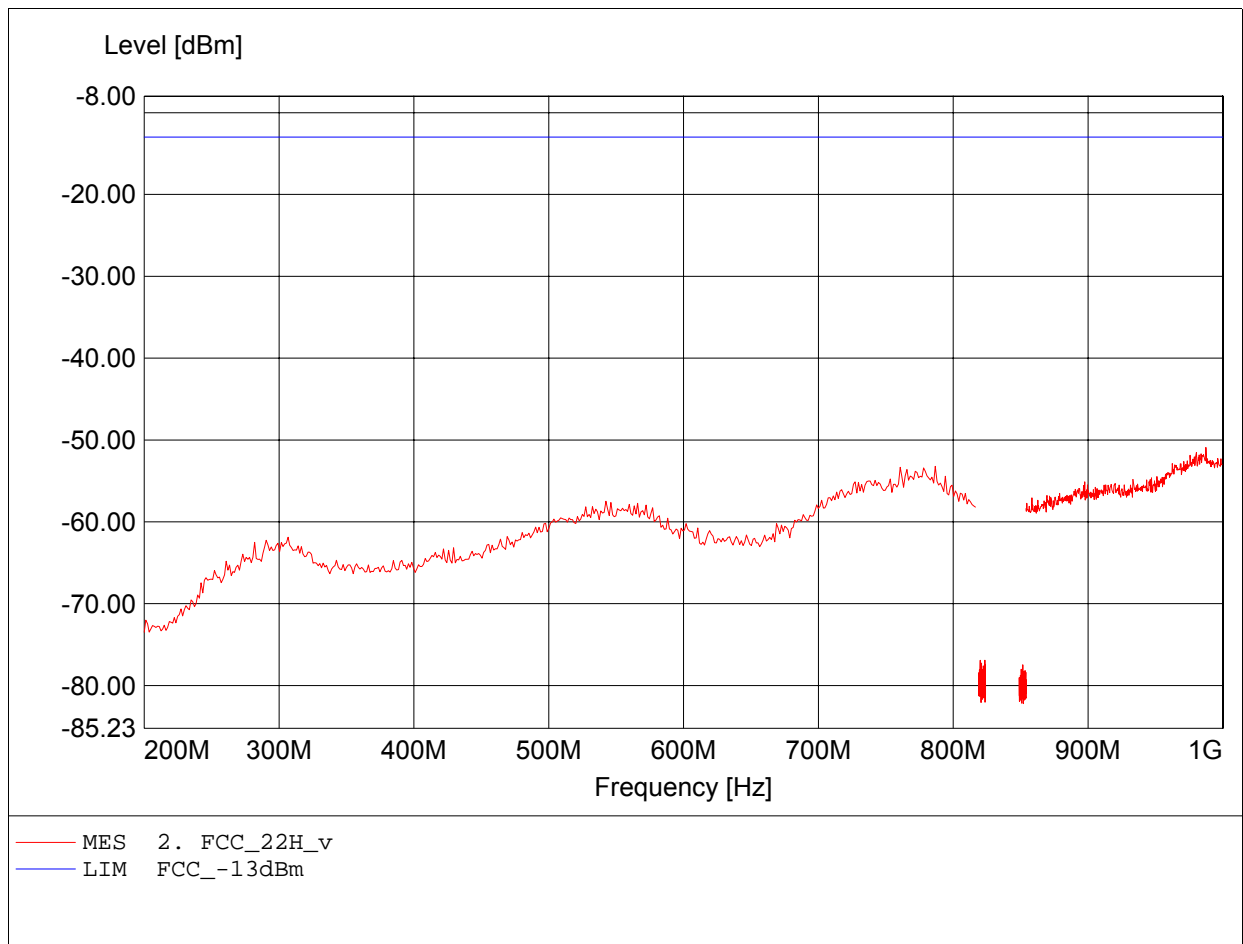
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4232 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Comment 2: Freq: 867.166MHz, Pmax: -31.98dBm, RBW: 100kHz



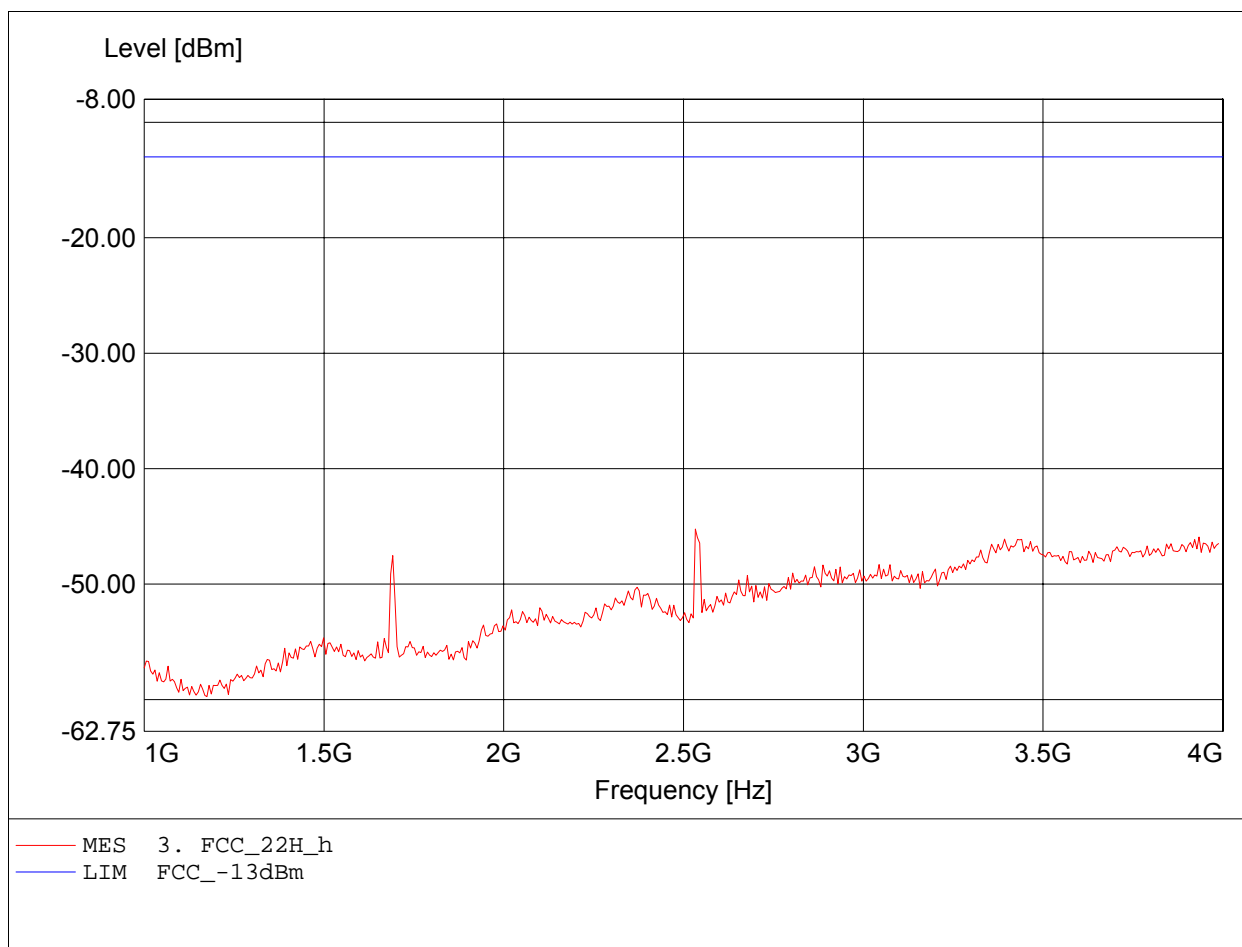
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4232 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Comment 2: Freq: 987.419MHz, Pmax: -50.90dBm, RBW: 100kHz



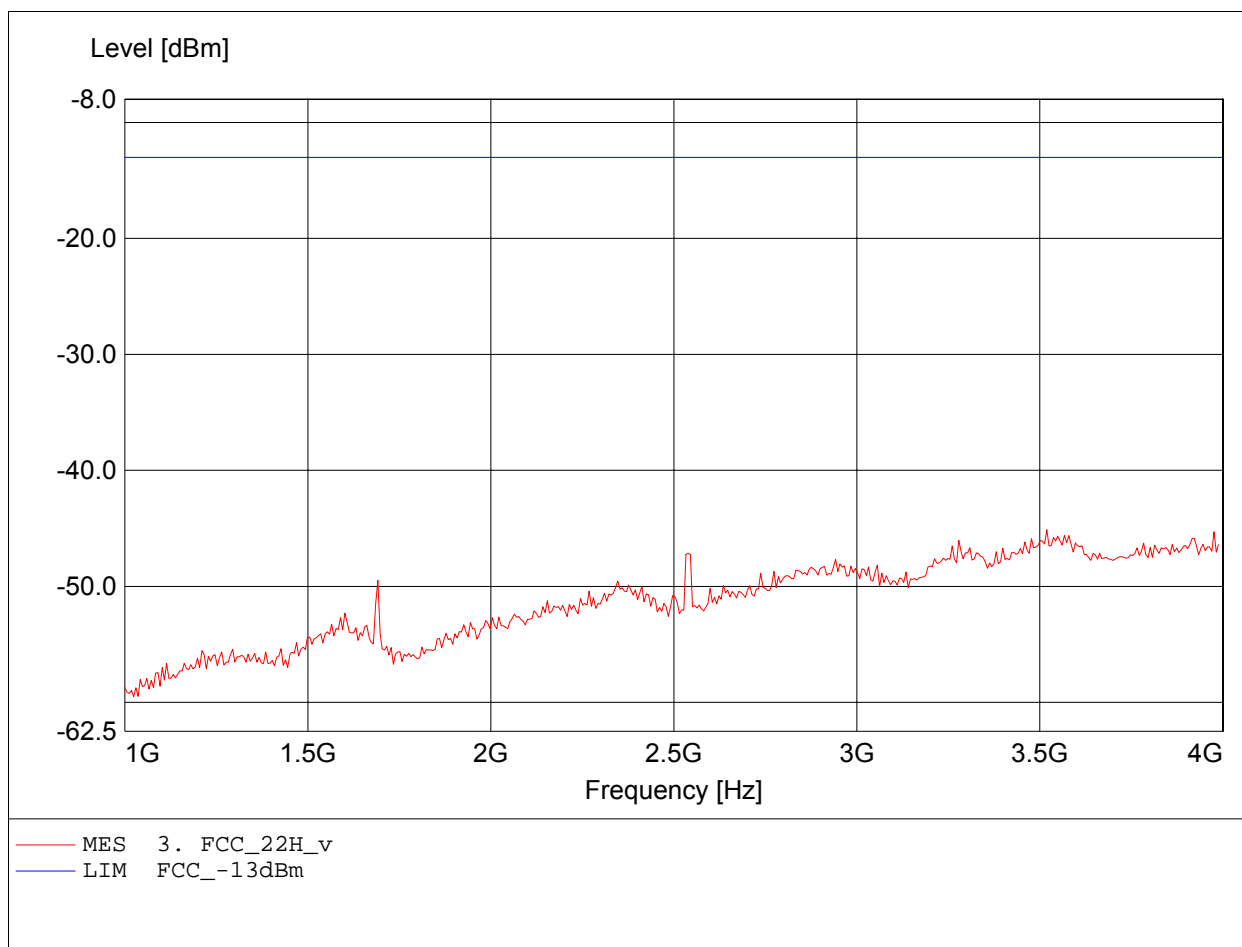
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4232 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 2.533GHz, Pmax: -45.24dBm, RBW: 1MHz



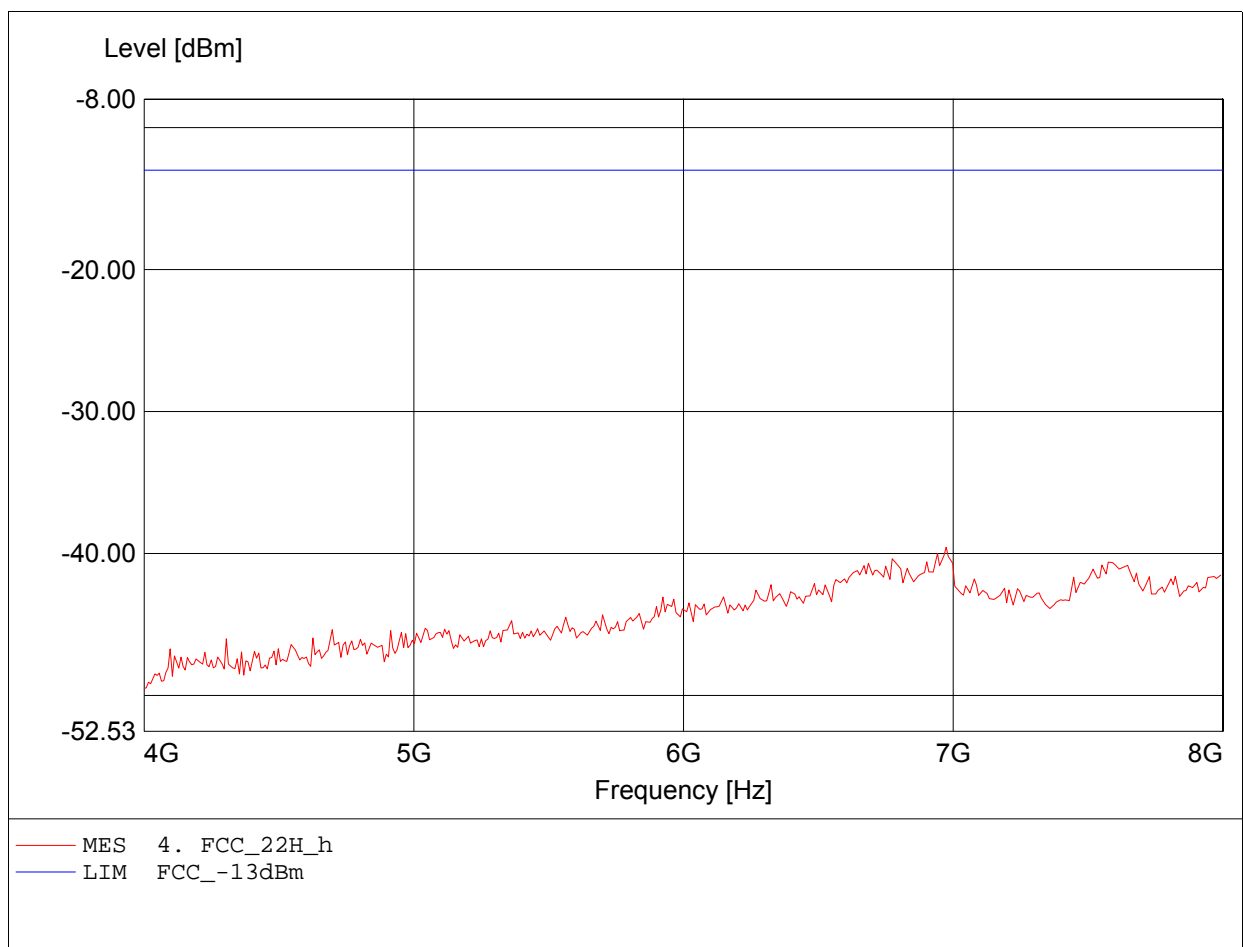
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4232 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 3.519GHz, Pmax: -45.11dBm, RBW: 1MHz



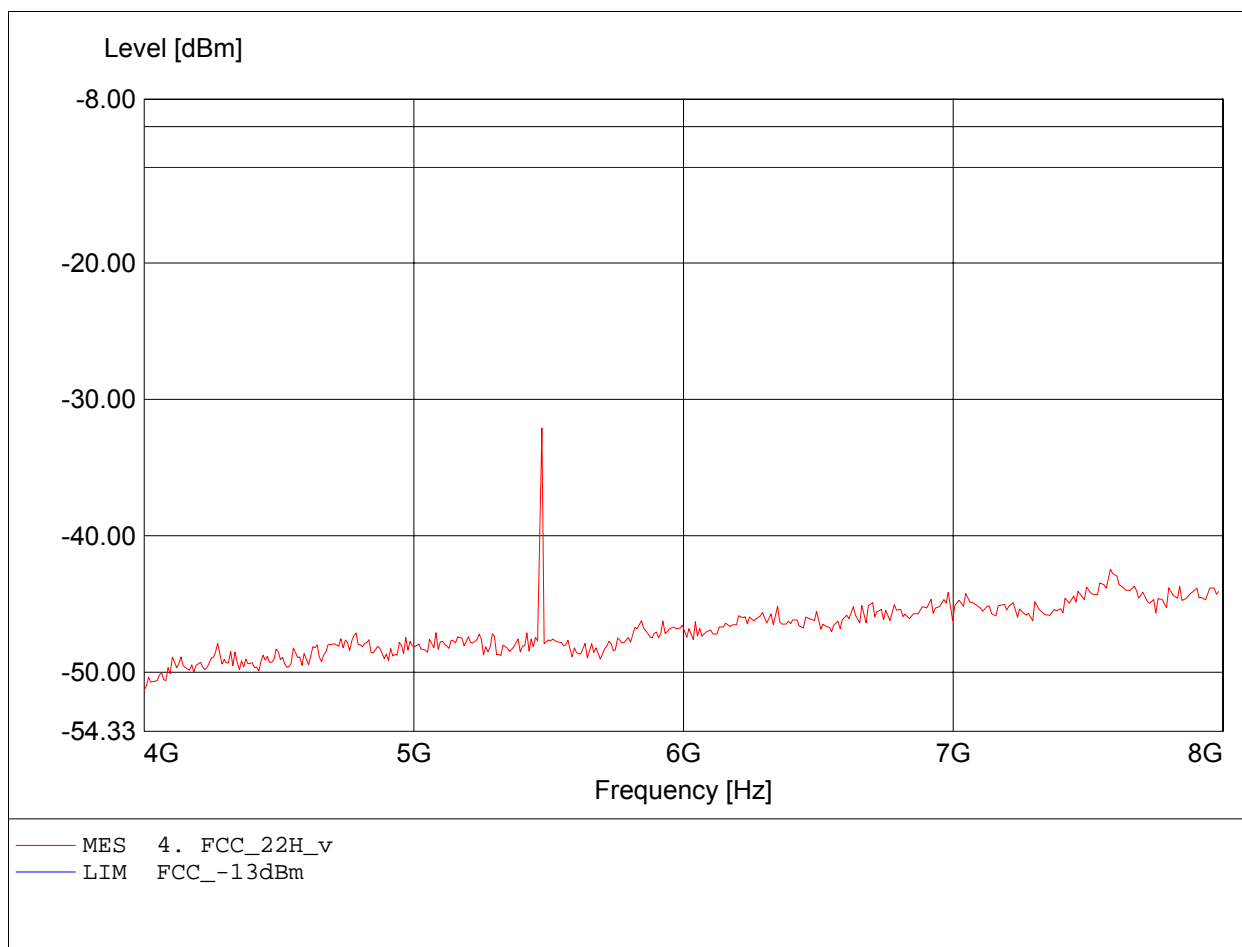
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4232 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 6.974GHz, Pmax: -39.56dBm, RBW: 1MHz



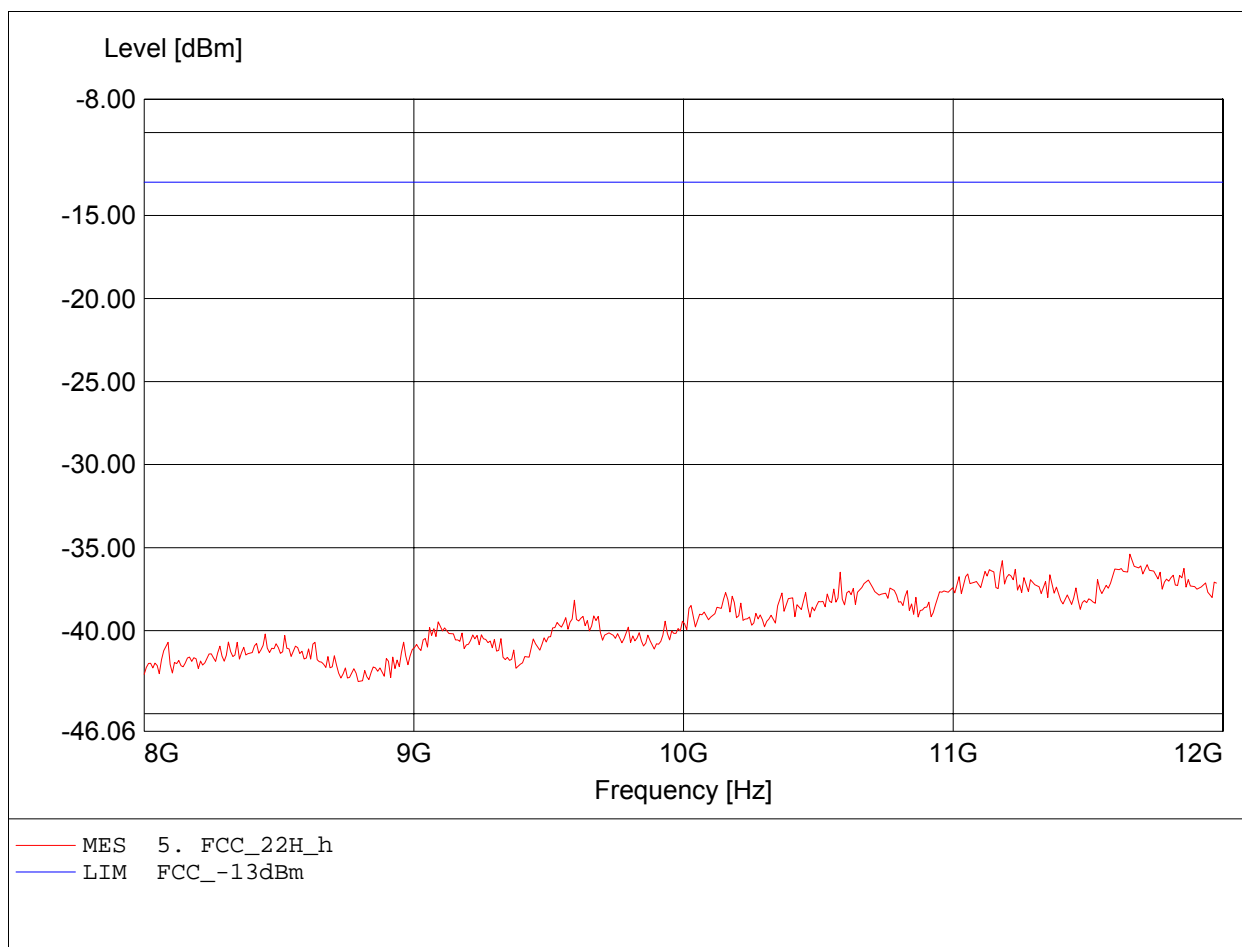
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4232 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 5.475GHz, Pmax: -32.09dBm, RBW: 1MHz



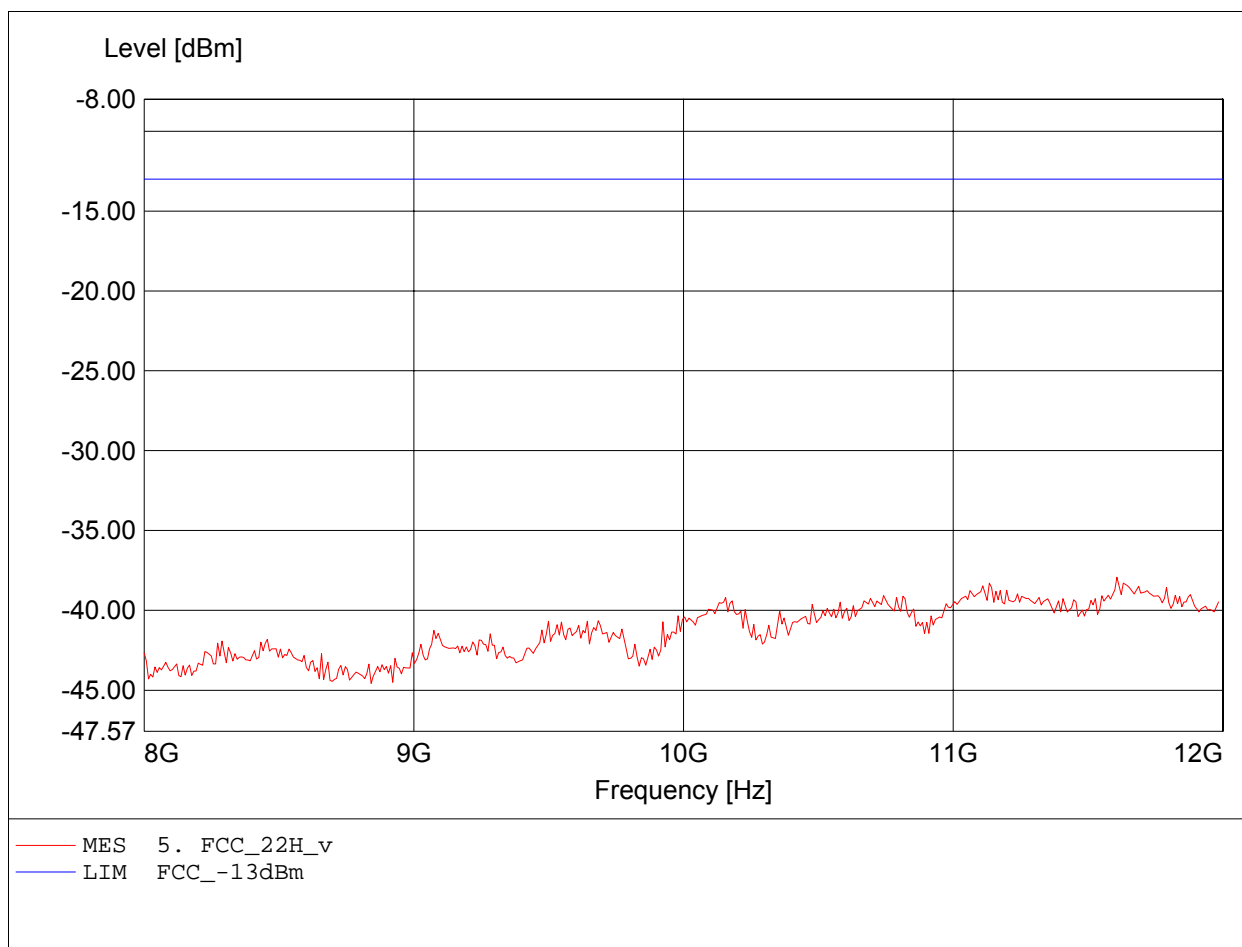
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4232 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.655GHz, Pmax: -35.39dBm, RBW: 1MHz



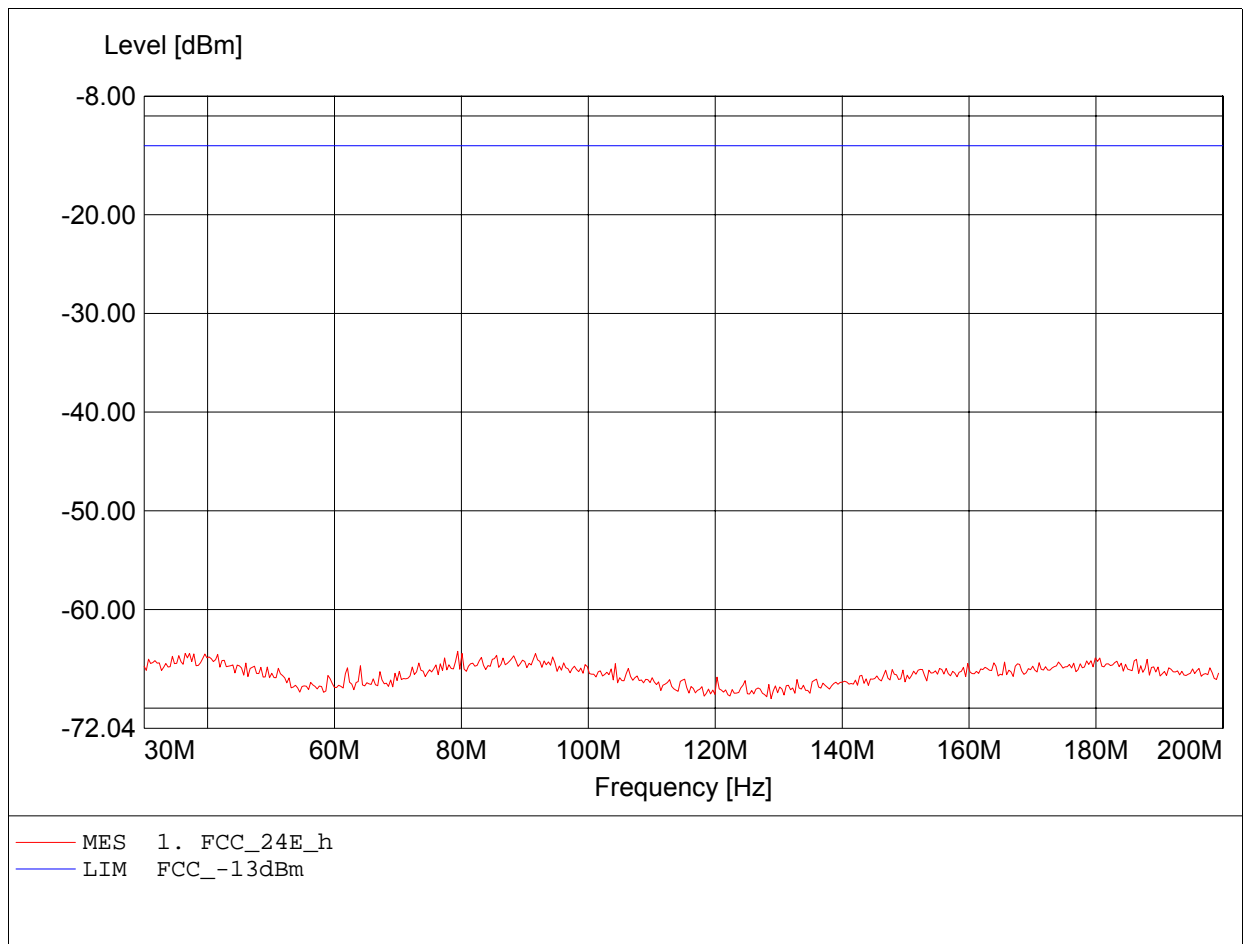
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4232 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §22.917
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.607GHz, Pmax: -37.93dBm, RBW: 1MHz



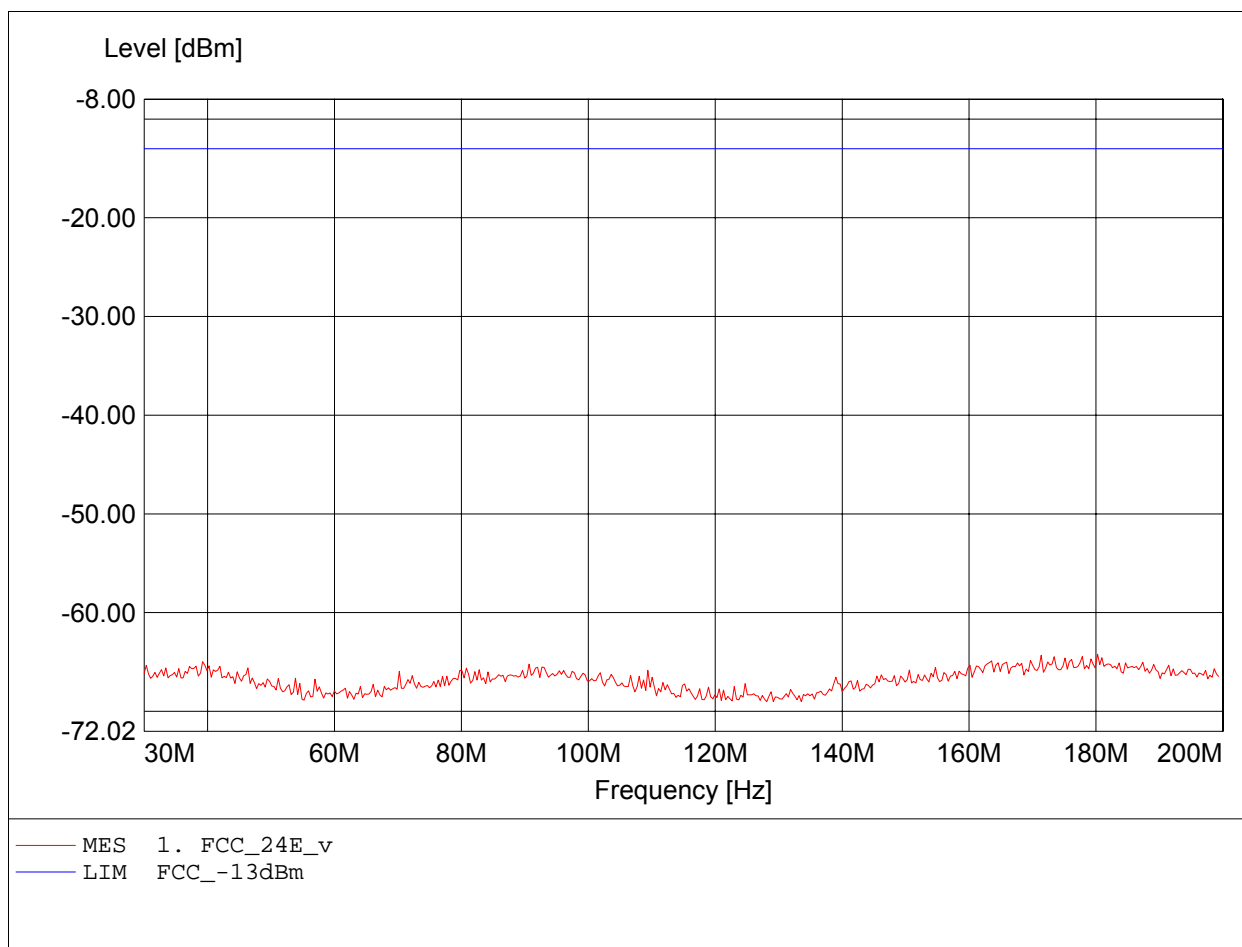
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 79.399MHz, Pmax: -64.24dBm, RBW: 100kHz



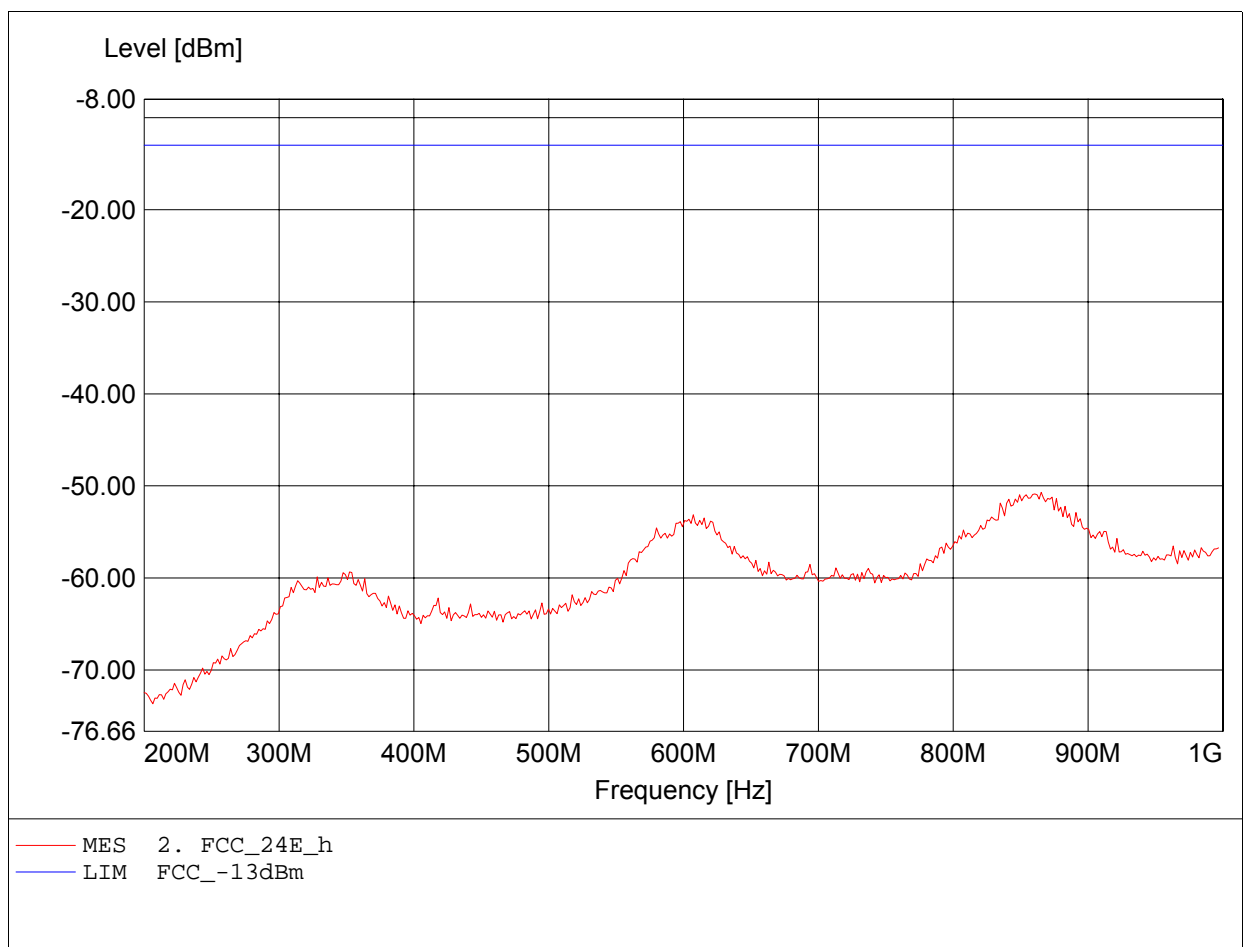
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 180.240MHz, Pmax: -64.19dBm, RBW: 100kHz



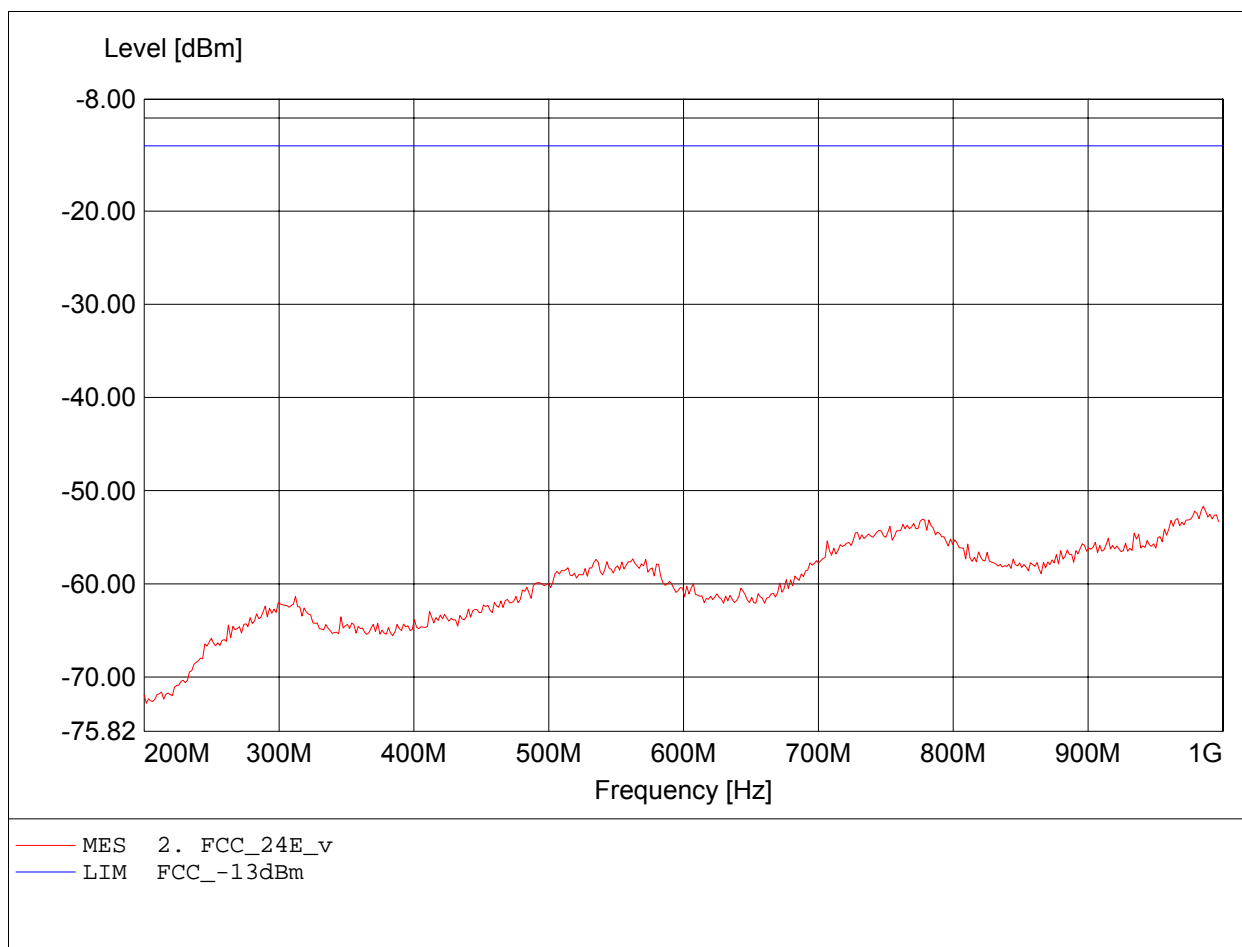
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 865.331MHz, Pmax: -50.70dBm, RBW: 100kHz



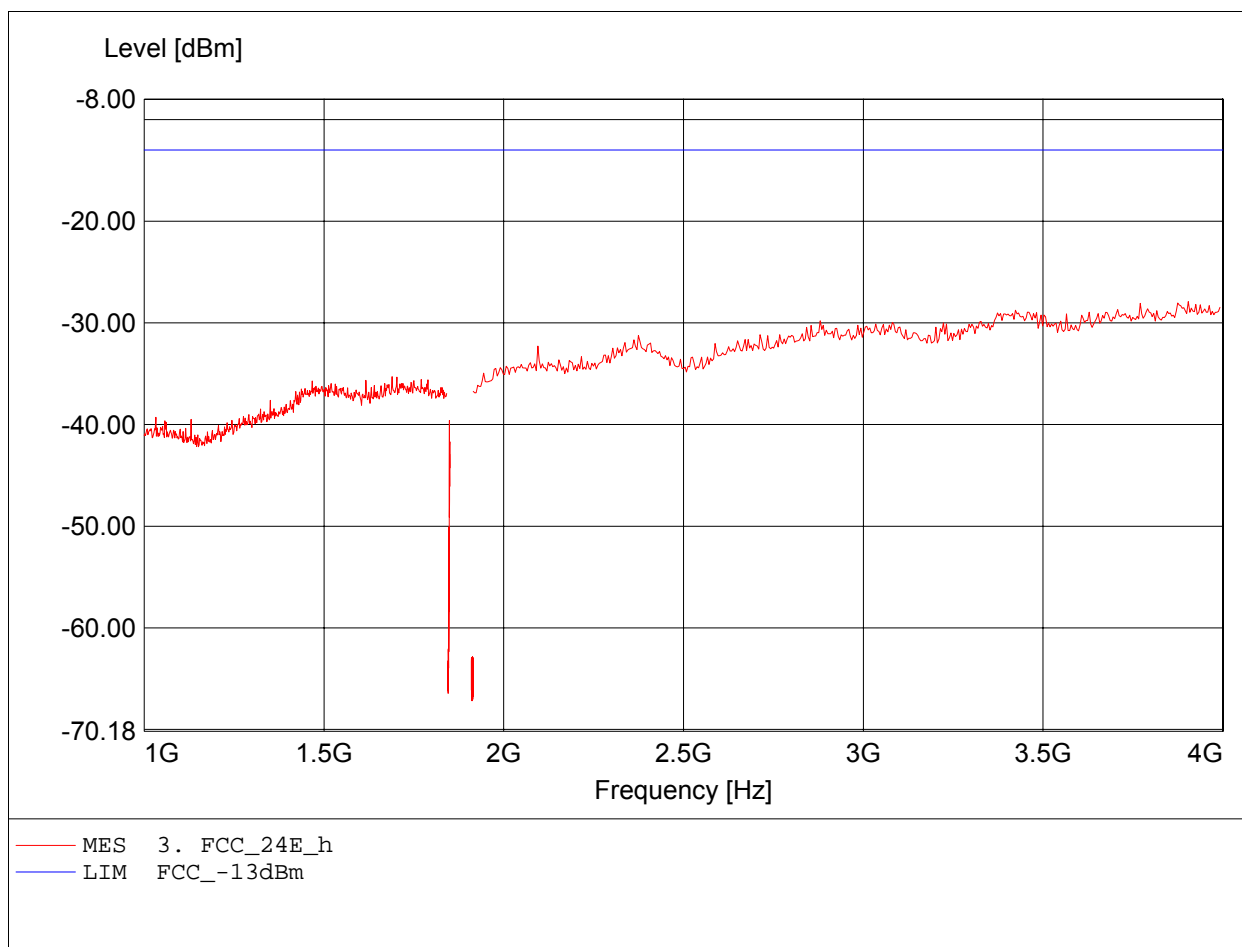
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 985.571MHz, Pmax: -51.66dBm, RBW: 100kHz



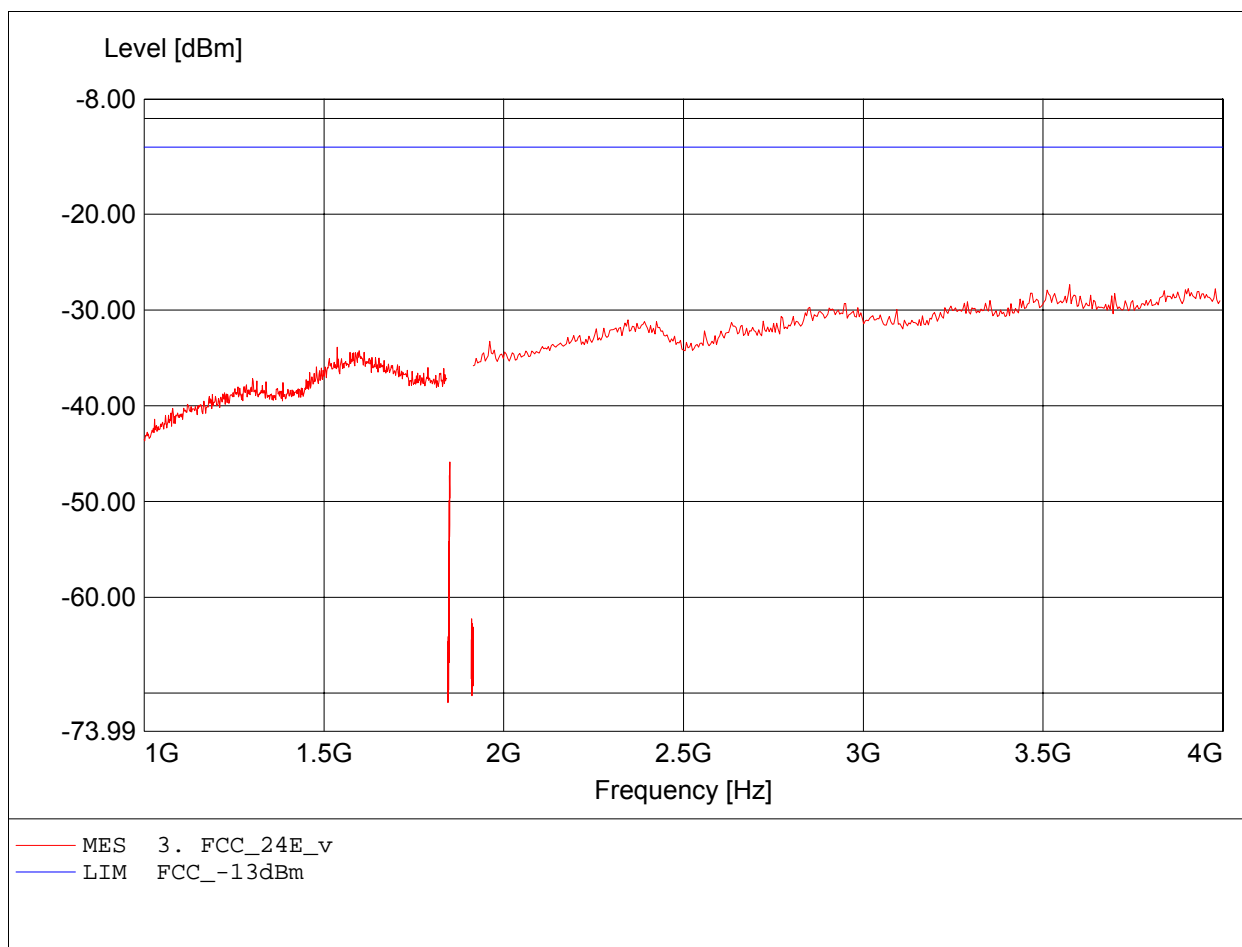
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 3.904GHz, Pmax: -27.90dBm, RBW: 1MHz/3kHz



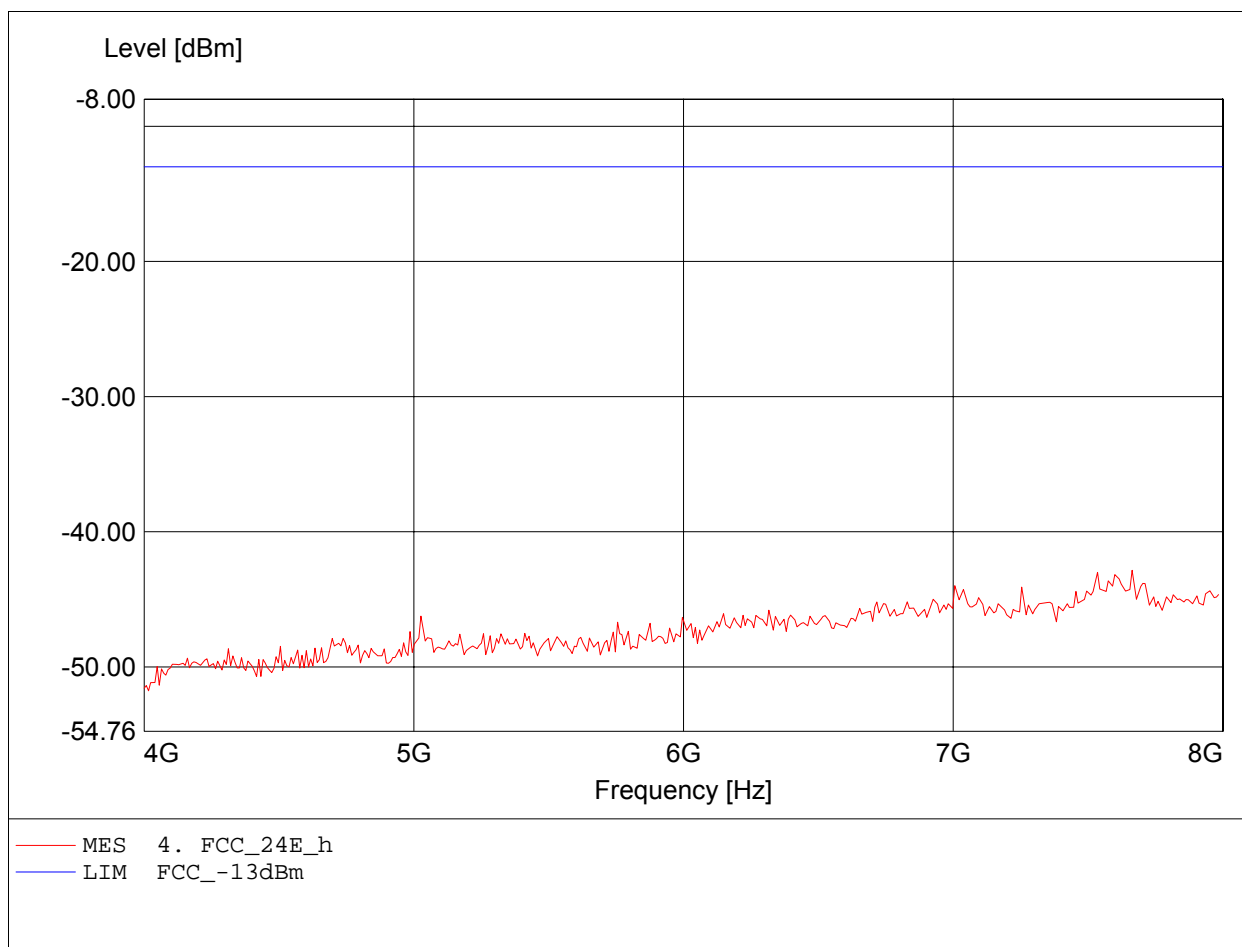
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 3.574GHz, Pmax: -27.36dBm, RBW: 1MHz/3kHz



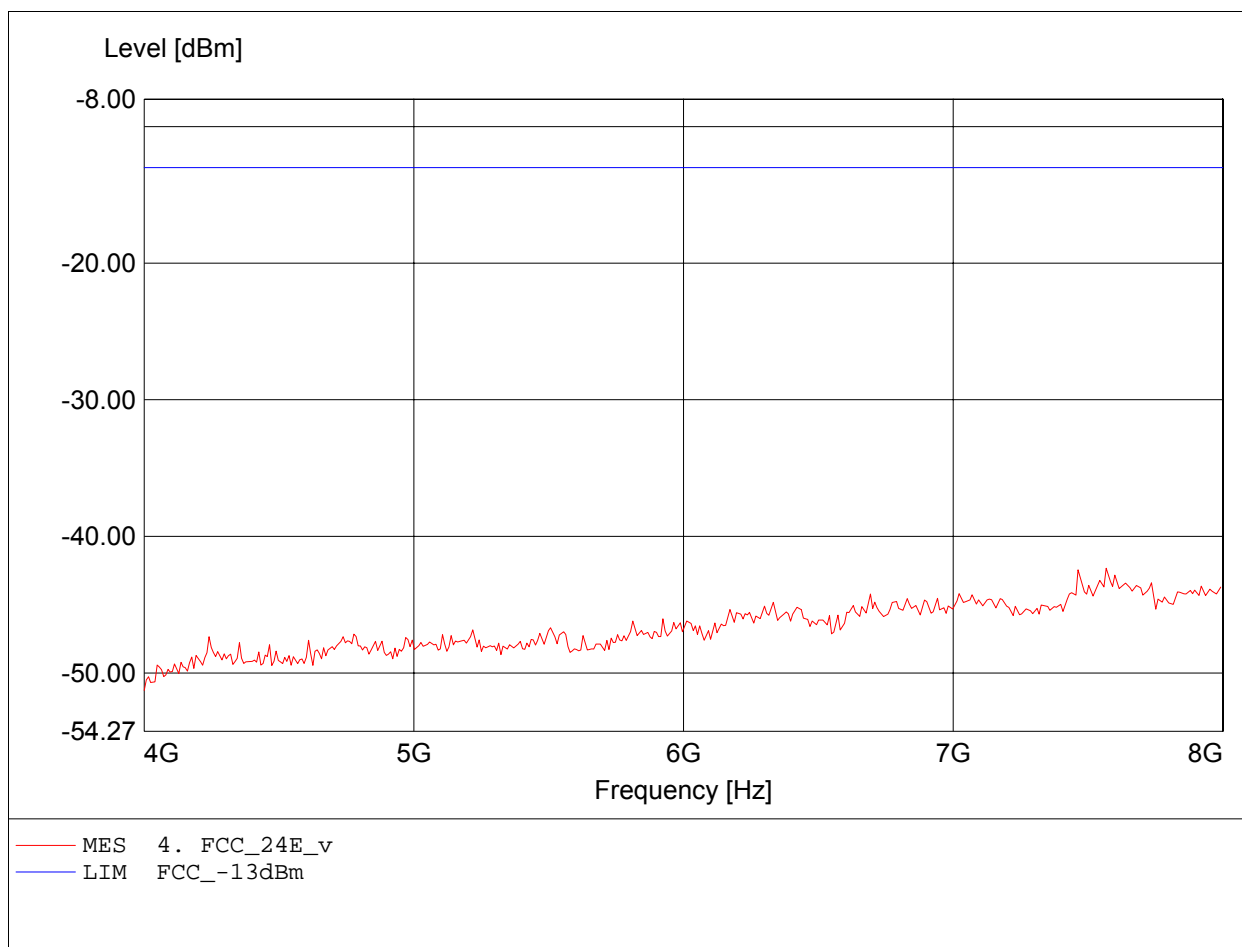
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.663GHz, Pmax: -42.84dBm, RBW: 1MHz



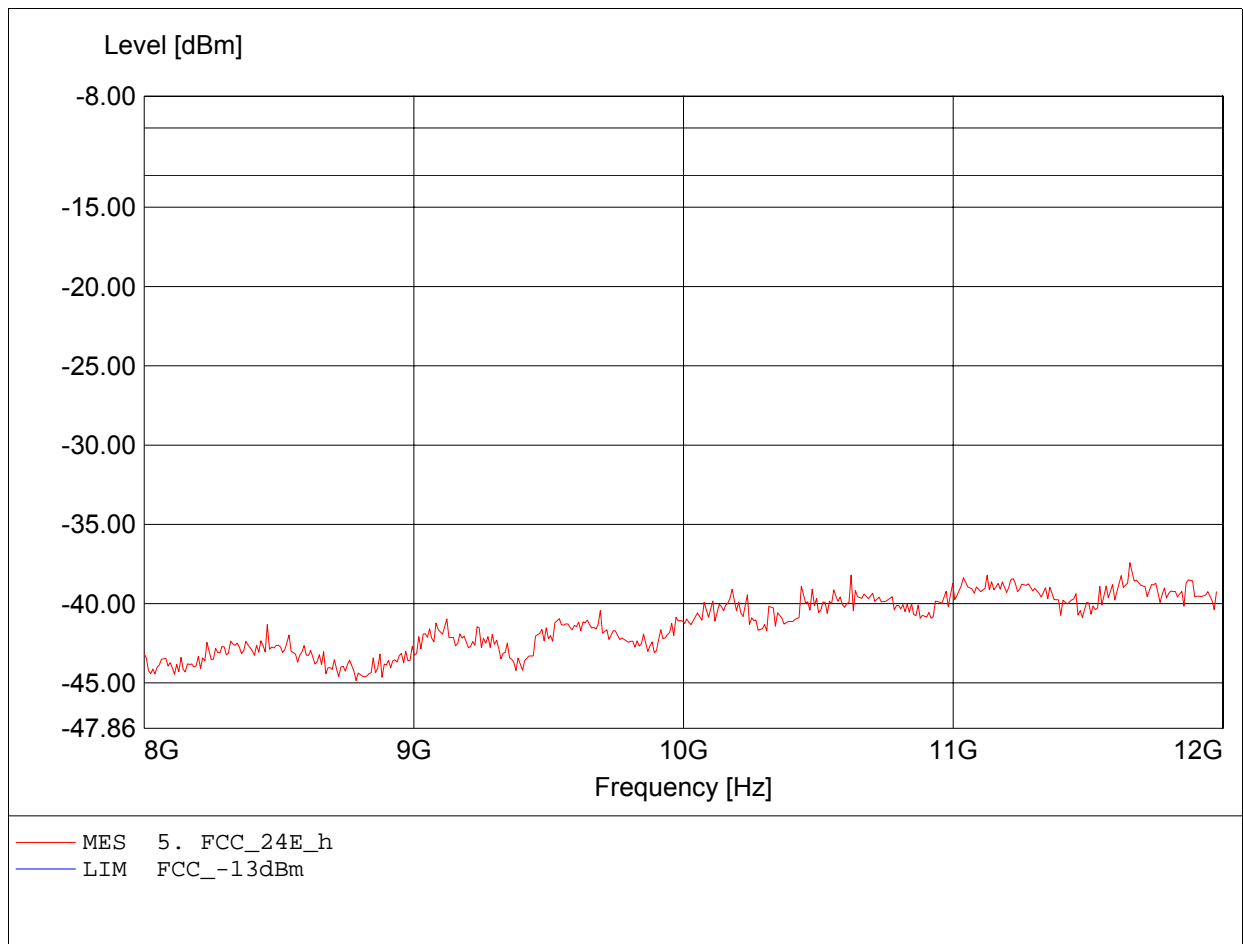
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.567GHz, Pmax: -42.33dBm, RBW: 1MHz



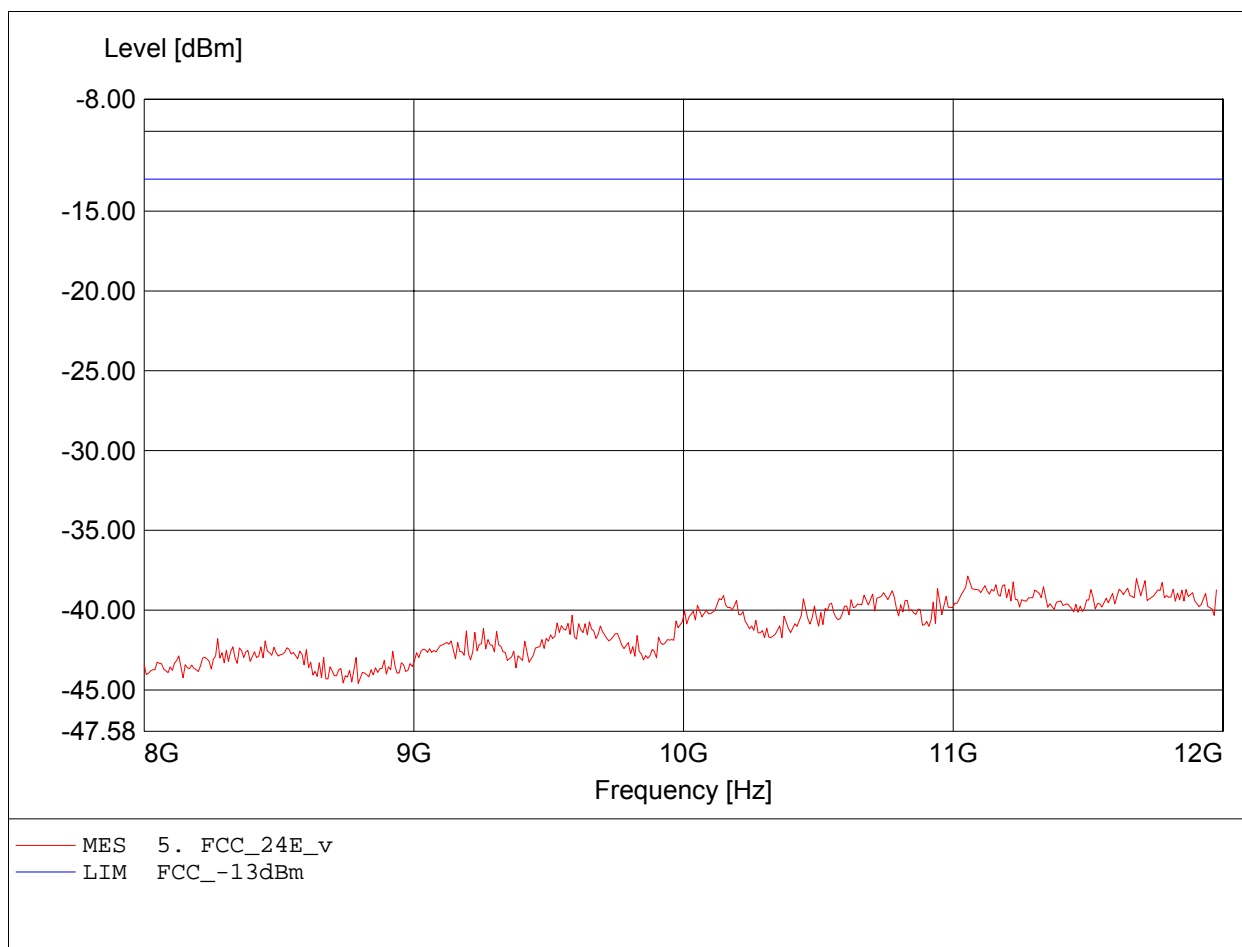
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.655GHz, Pmax: -37.41dBm, RBW: 1MHz



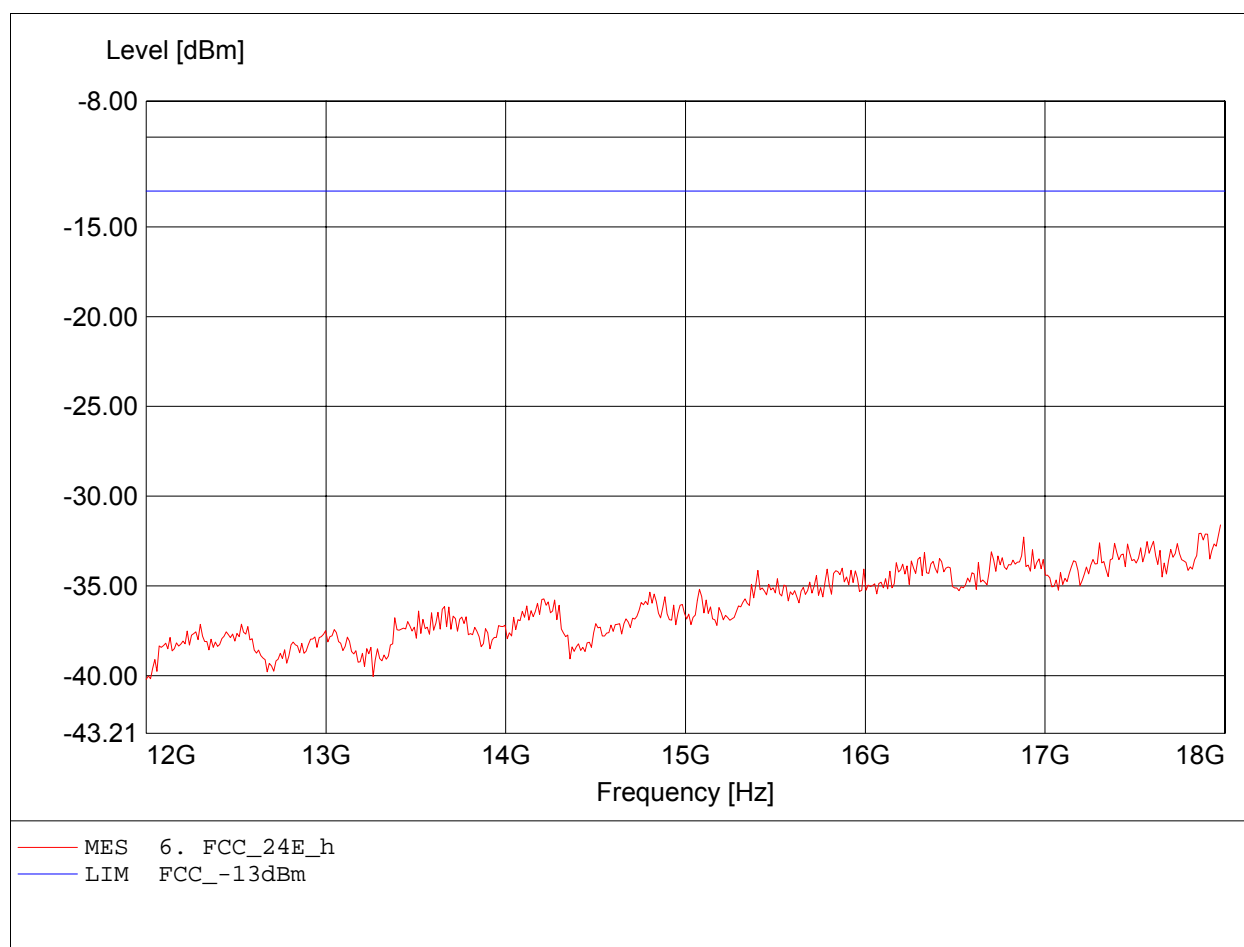
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.054GHz, Pmax: -37.85dBm, RBW: 1MHz



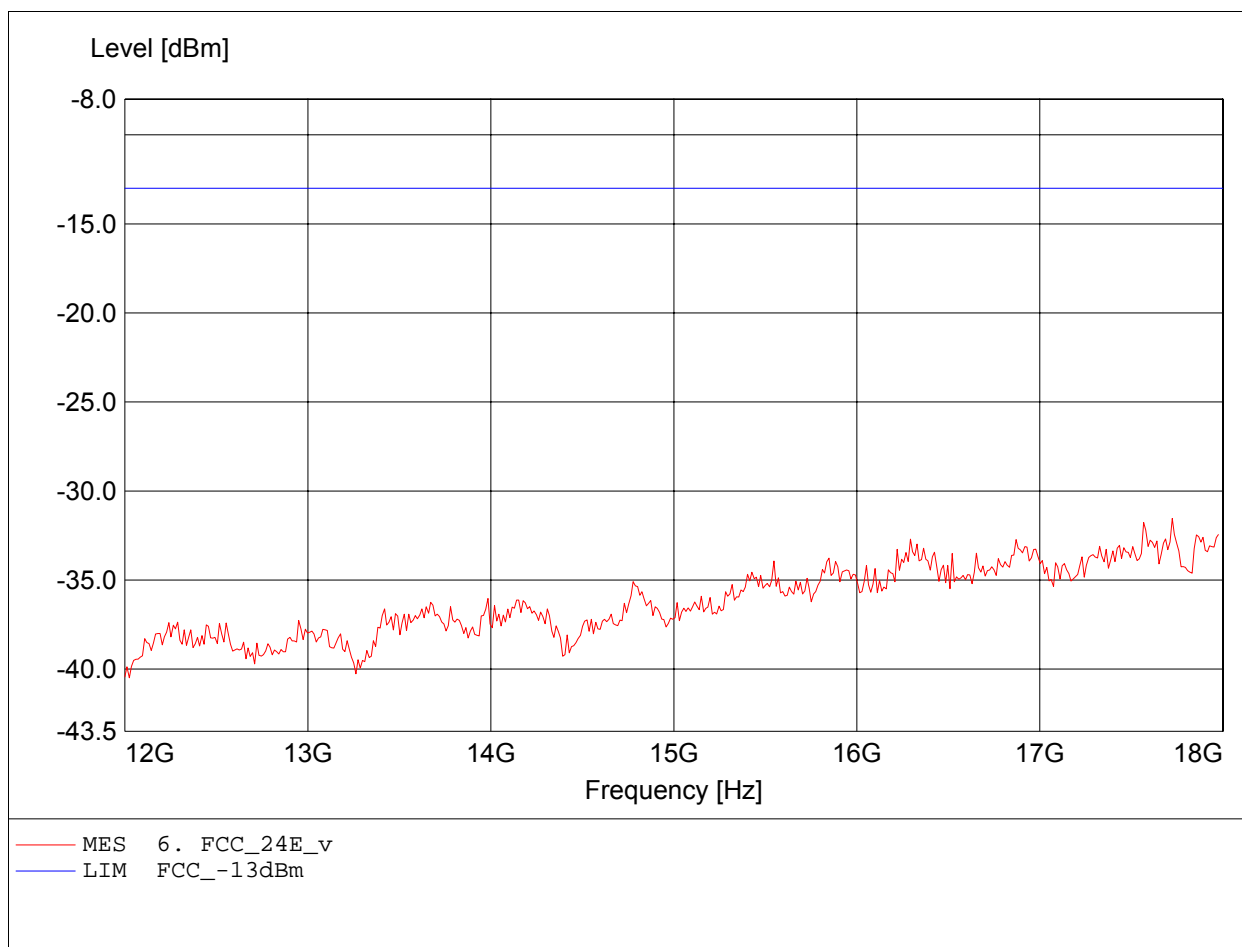
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 17.976GHz, Pmax: -31.60dBm, RBW: 1MHz



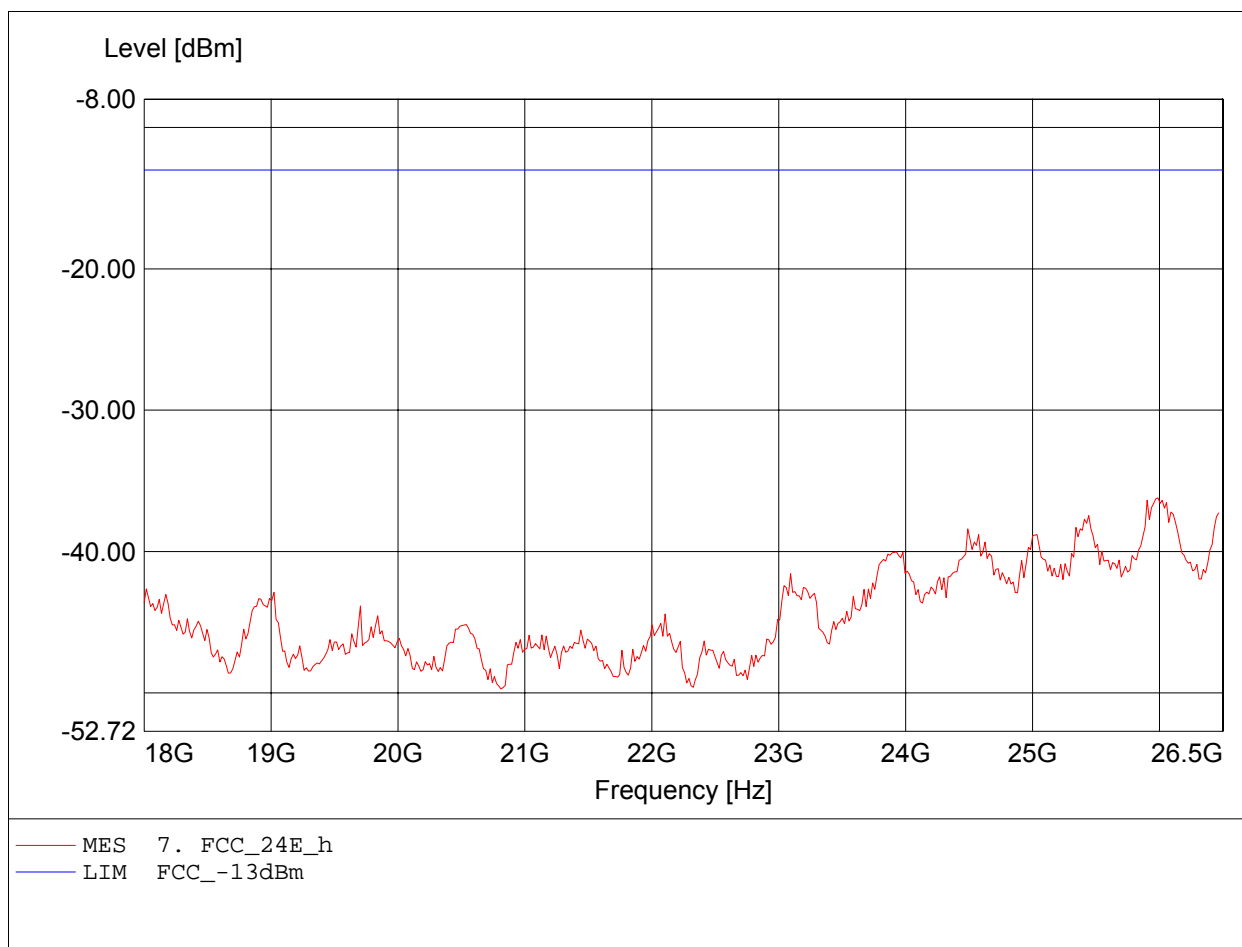
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 17.723GHz, Pmax: -31.54dBm, RBW: 1MHz



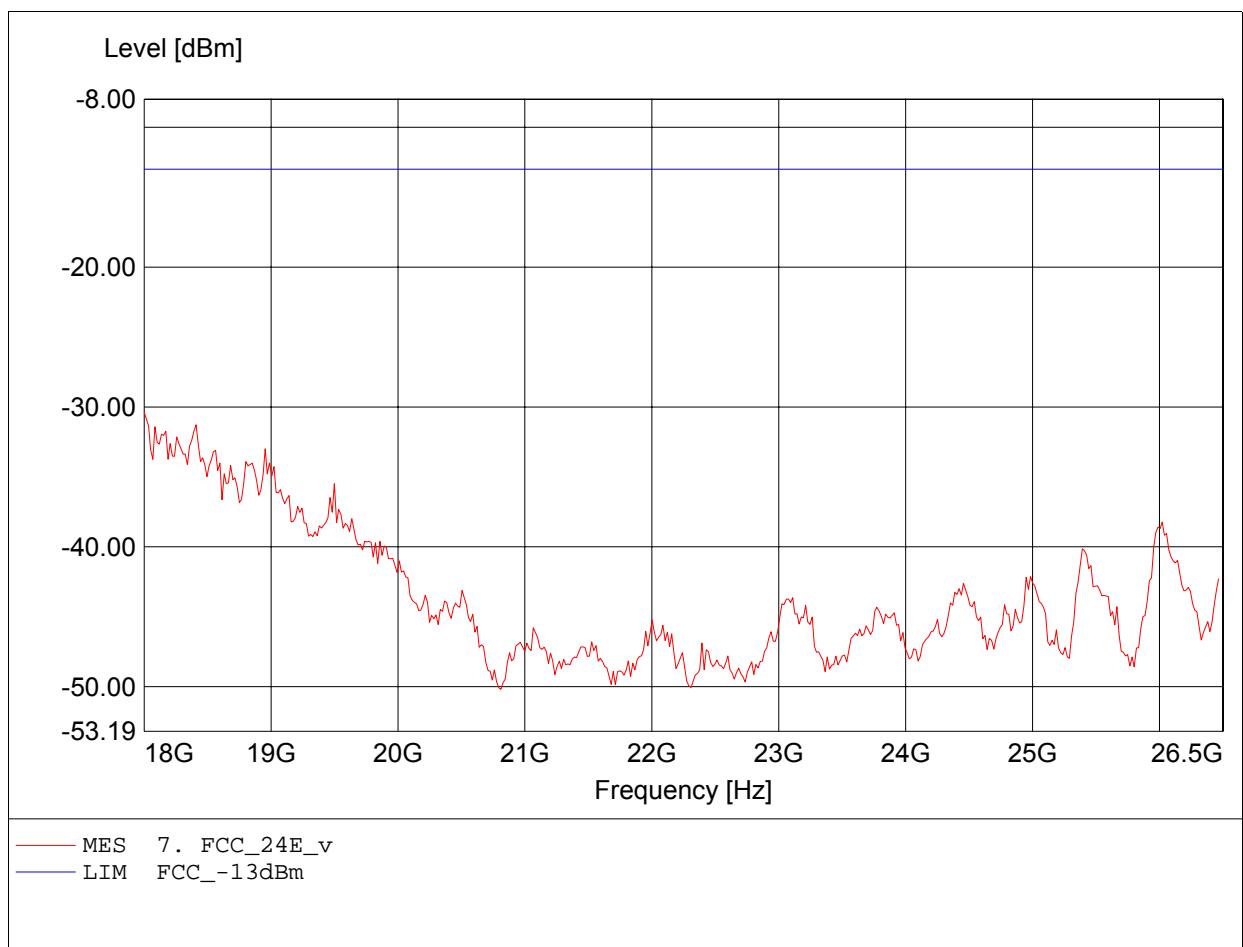
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 25.989GHz, Pmax: -36.21dBm, RBW: 1MHz



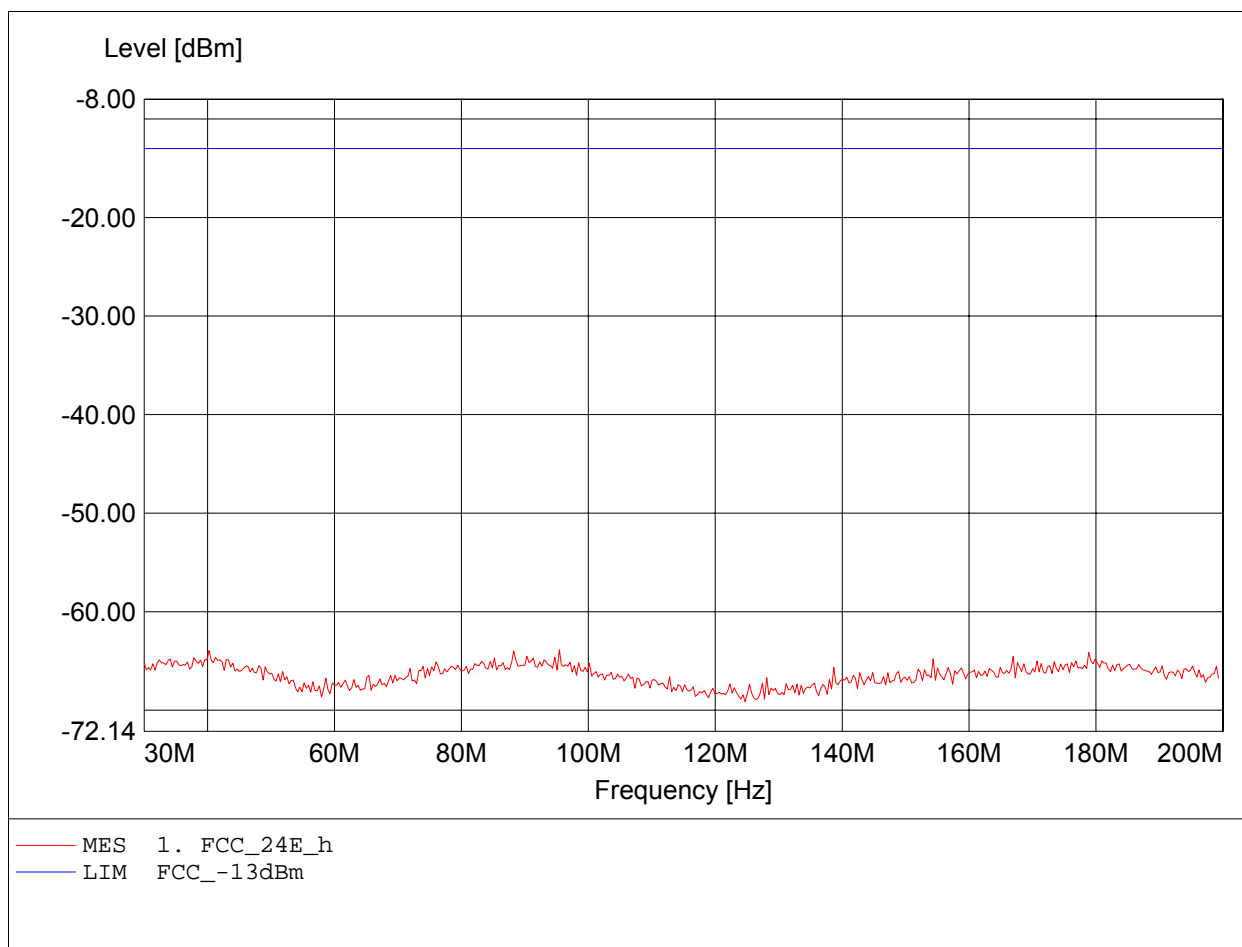
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9263 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 18.000GHz, Pmax: -30.38dBm, RBW: 1MHz



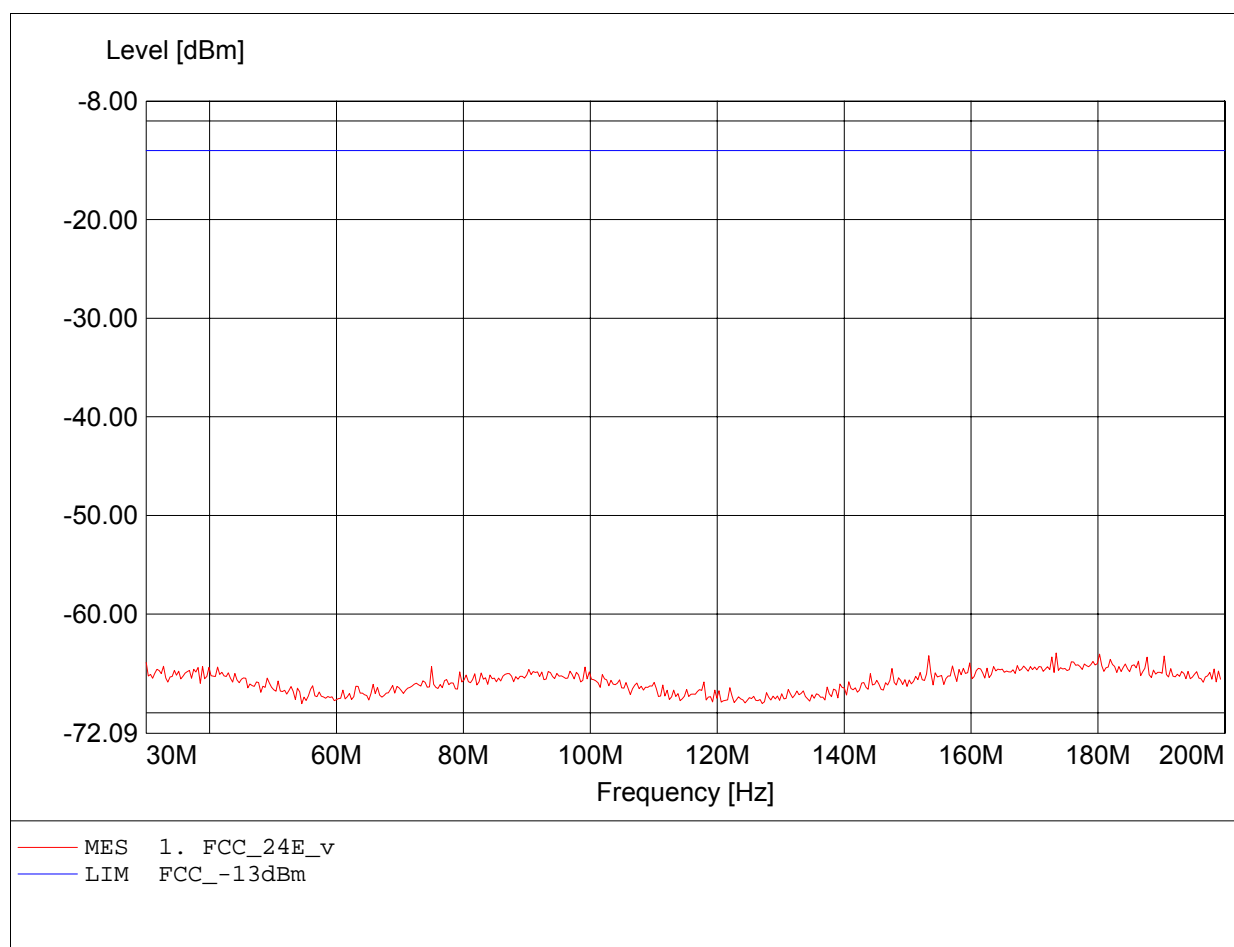
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 95.411MHz, Pmax: -63.87dBm, RBW: 100kHz



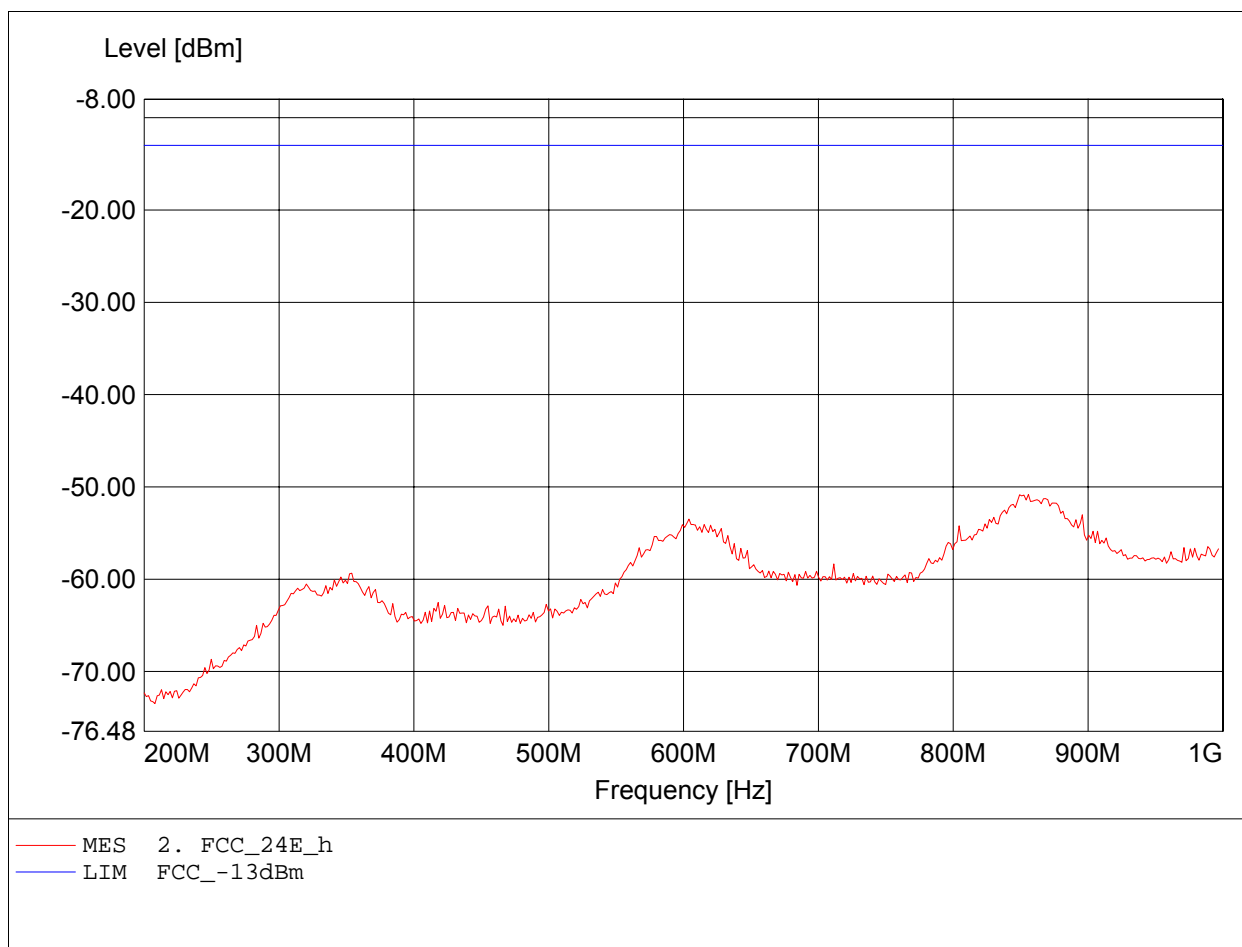
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 173.427MHz, Pmax: -63.94dBm, RBW: 100kHz



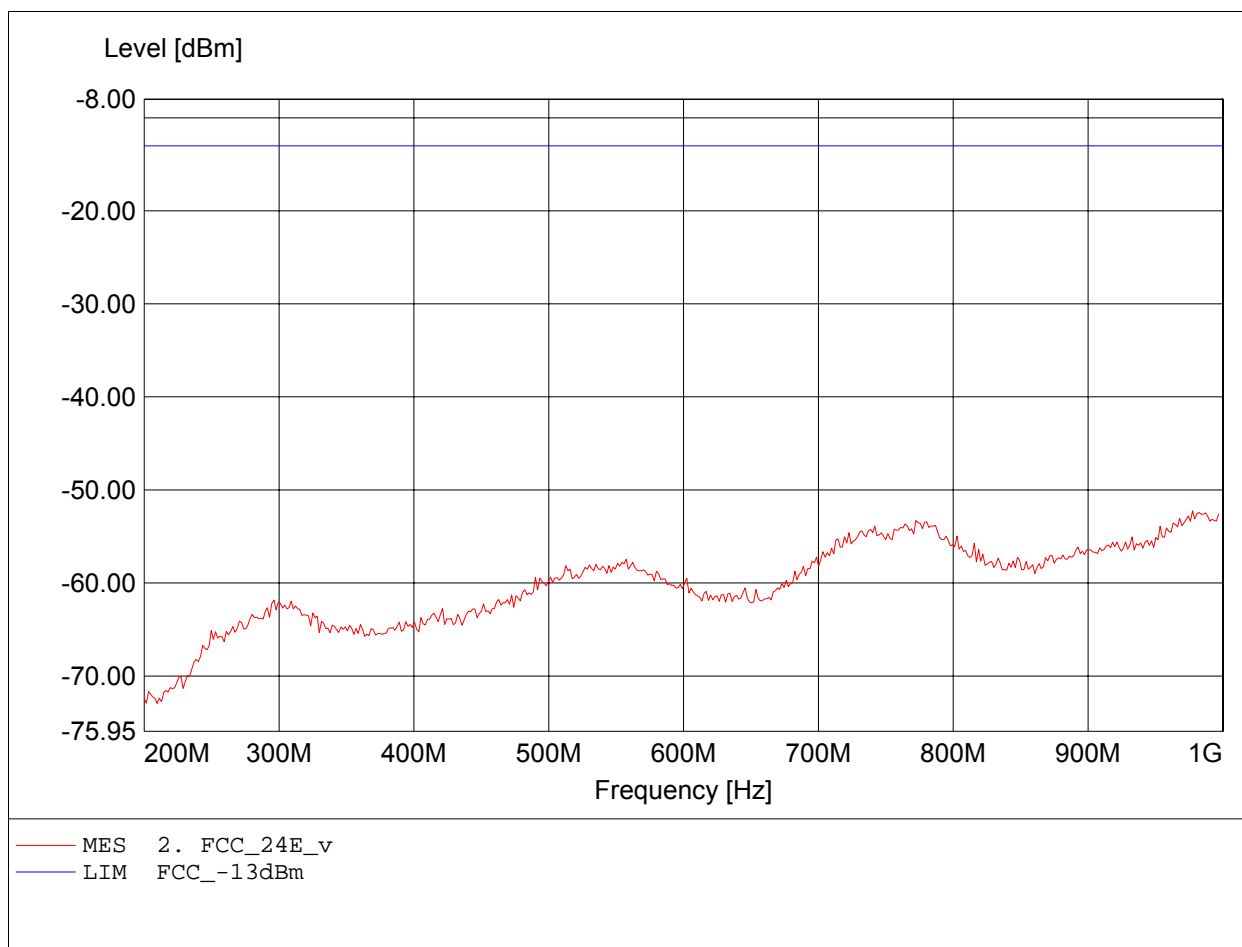
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 855.711MHz, Pmax: -50.82dBm, RBW: 100kHz



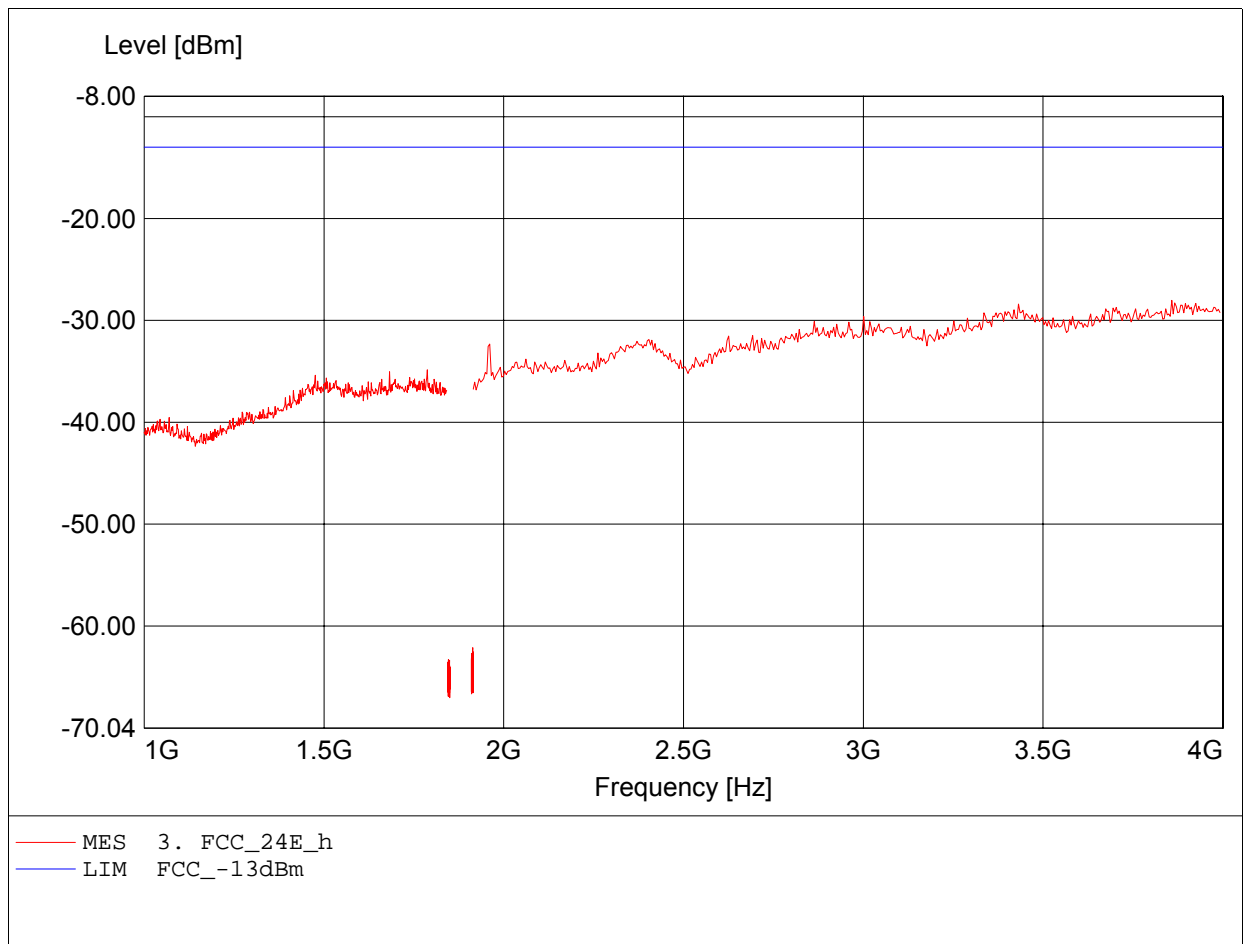
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 977.555MHz, Pmax: -52.24dBm, RBW: 100kHz



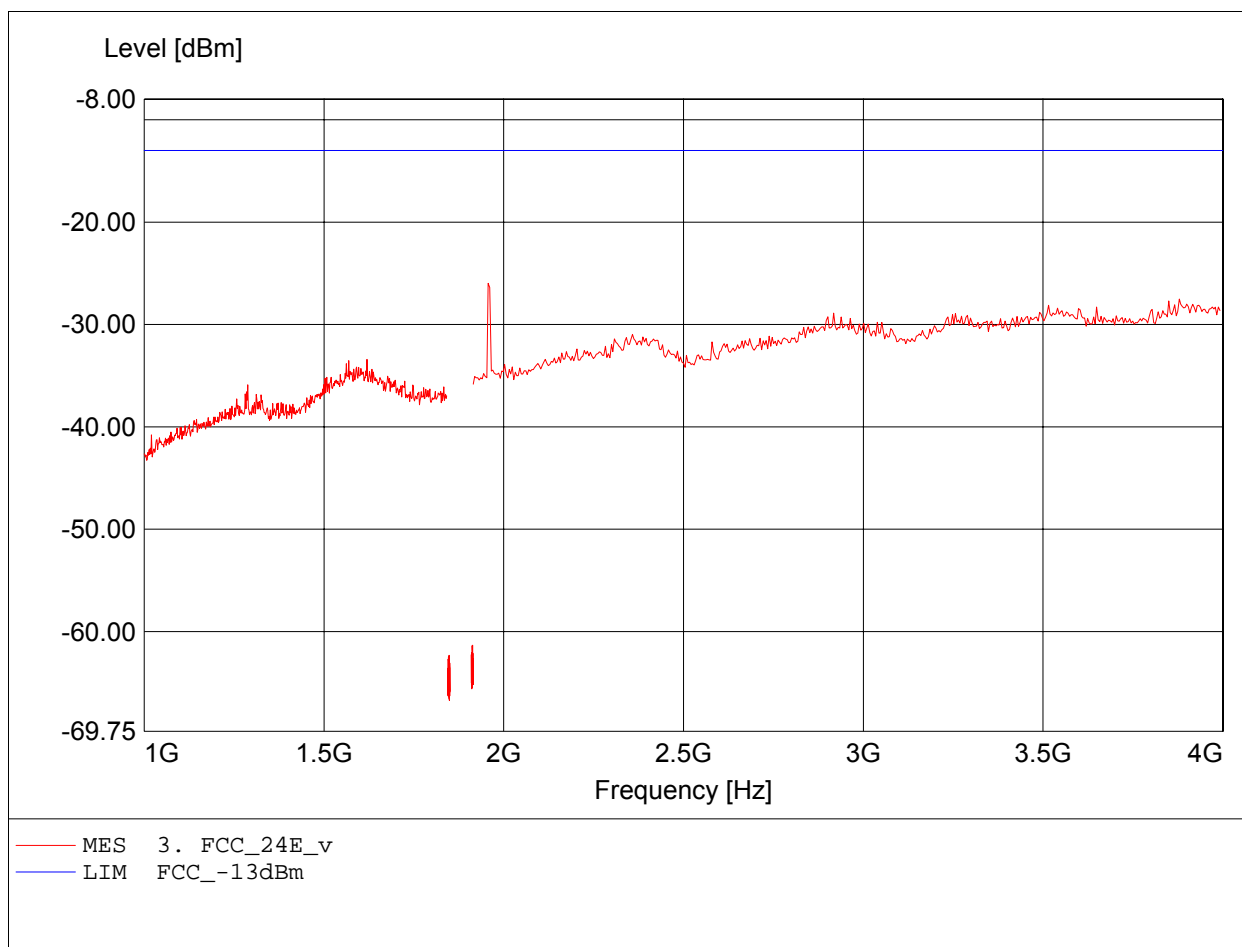
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 3.858GHz, Pmax: -28.03dBm, RBW: 1MHz/3kHz



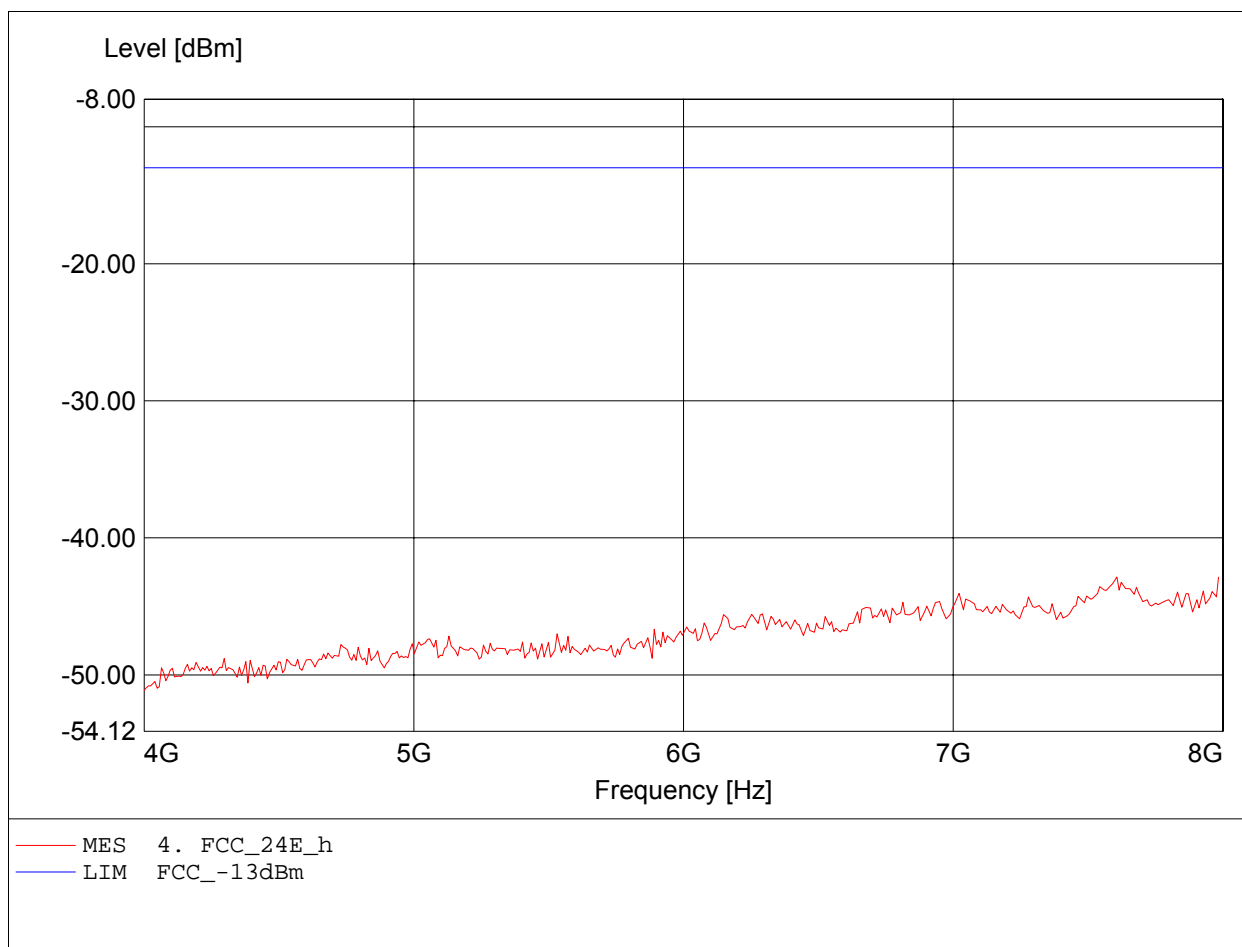
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 1.957GHz, Pmax: -25.97dBm, RBW: 1MHz/3kHz



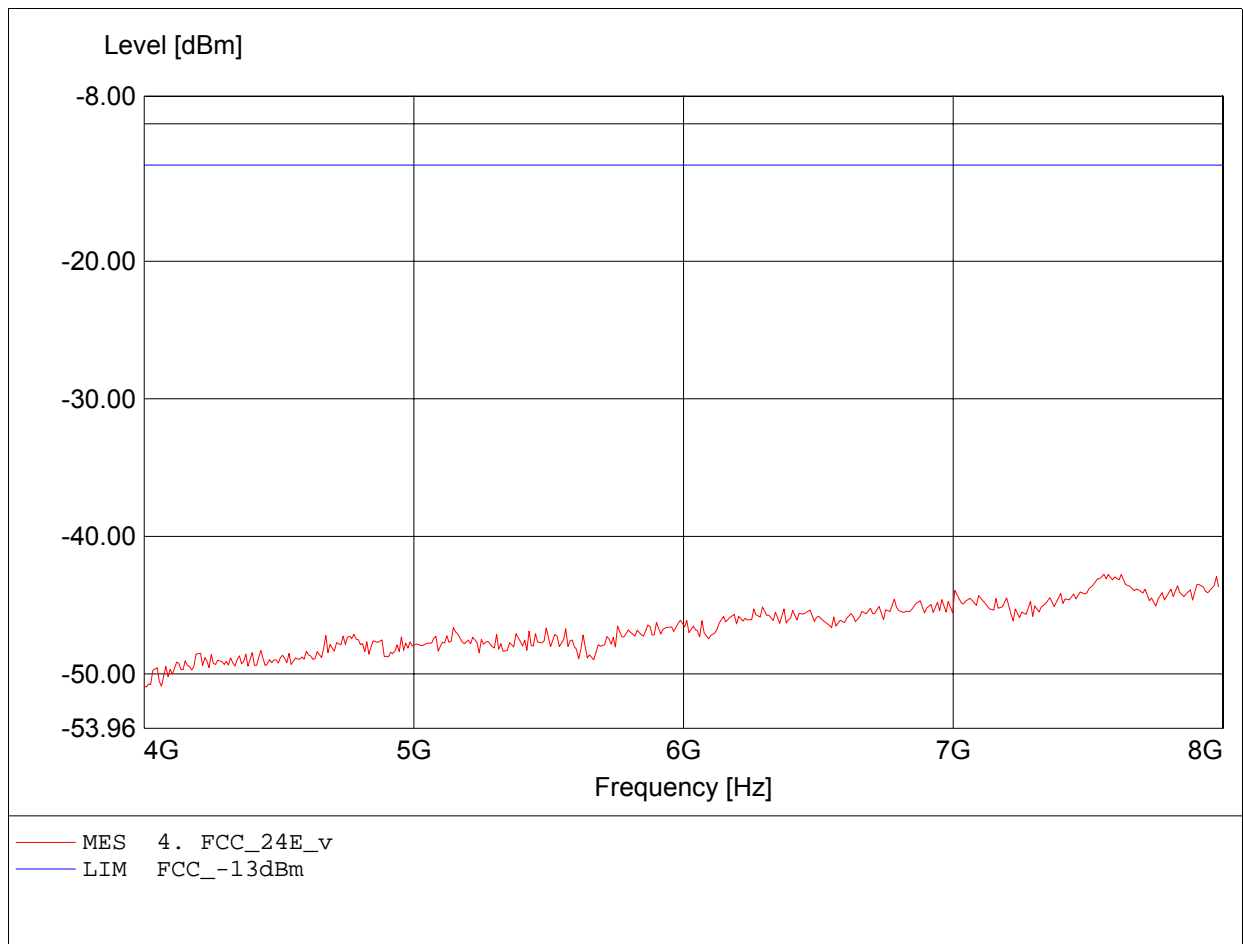
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.607GHz, Pmax: -42.86dBm, RBW: 1MHz



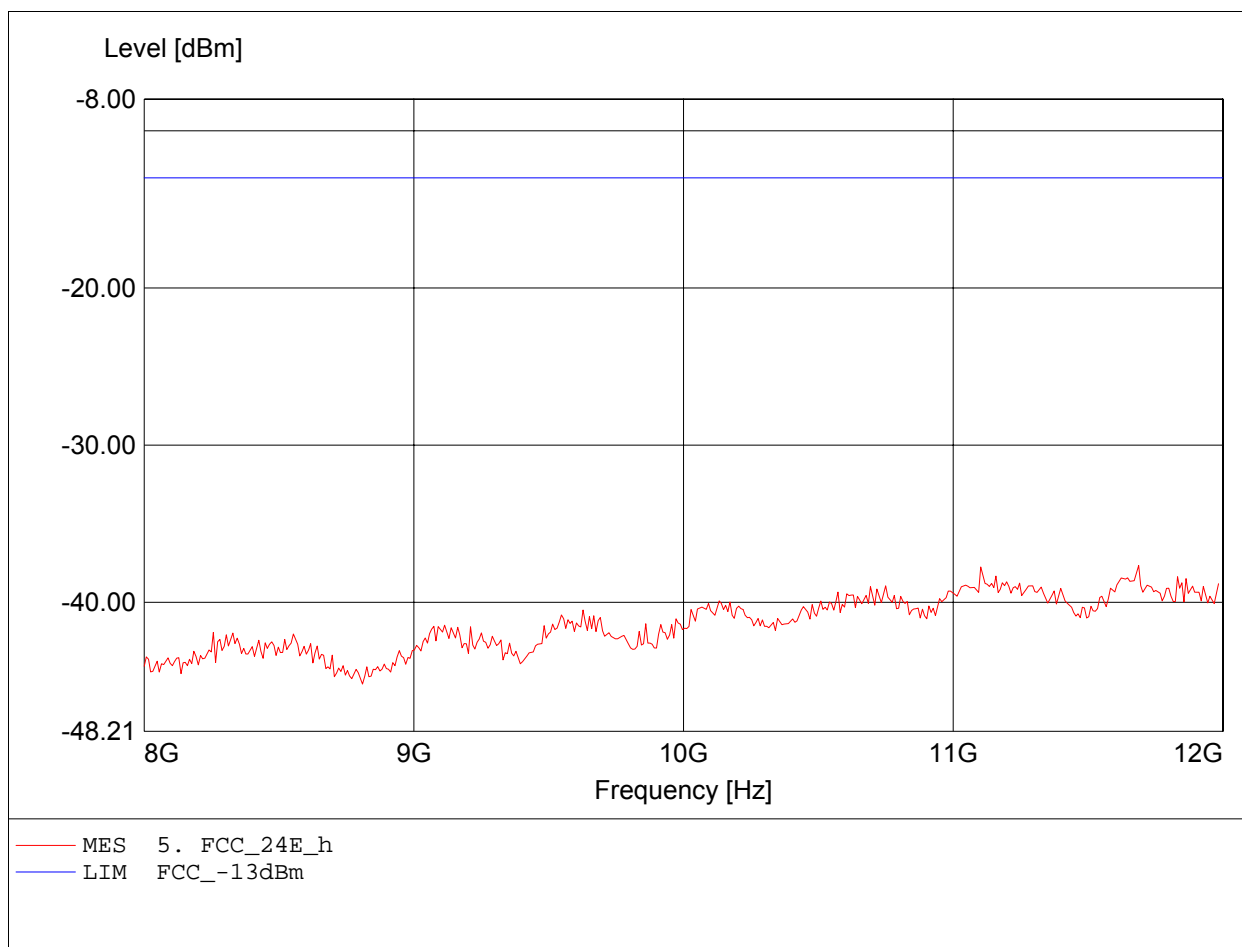
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.559GHz, Pmax: -42.75dBm, RBW: 1MHz



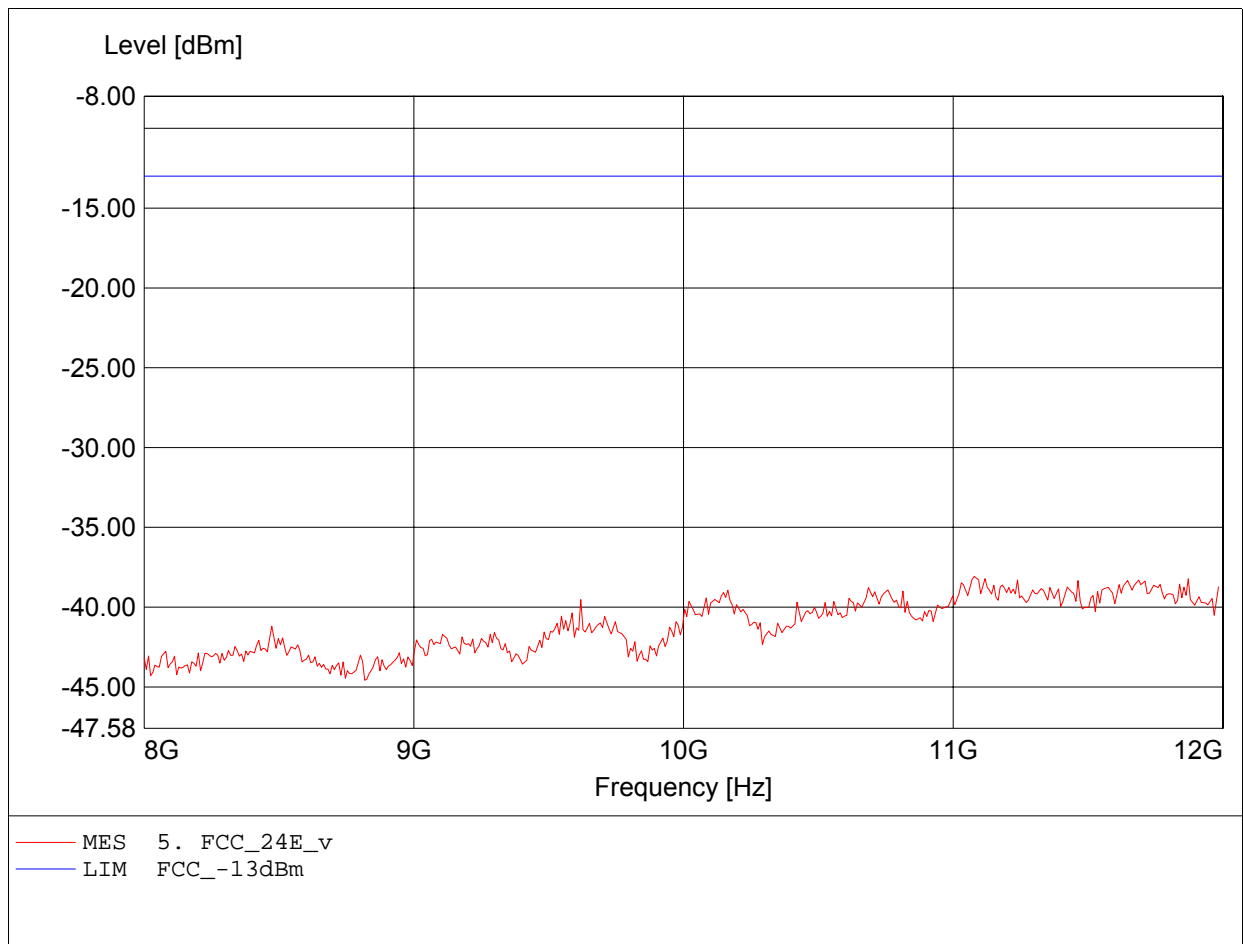
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.687GHz, Pmax: -37.66dBm, RBW: 1MHz



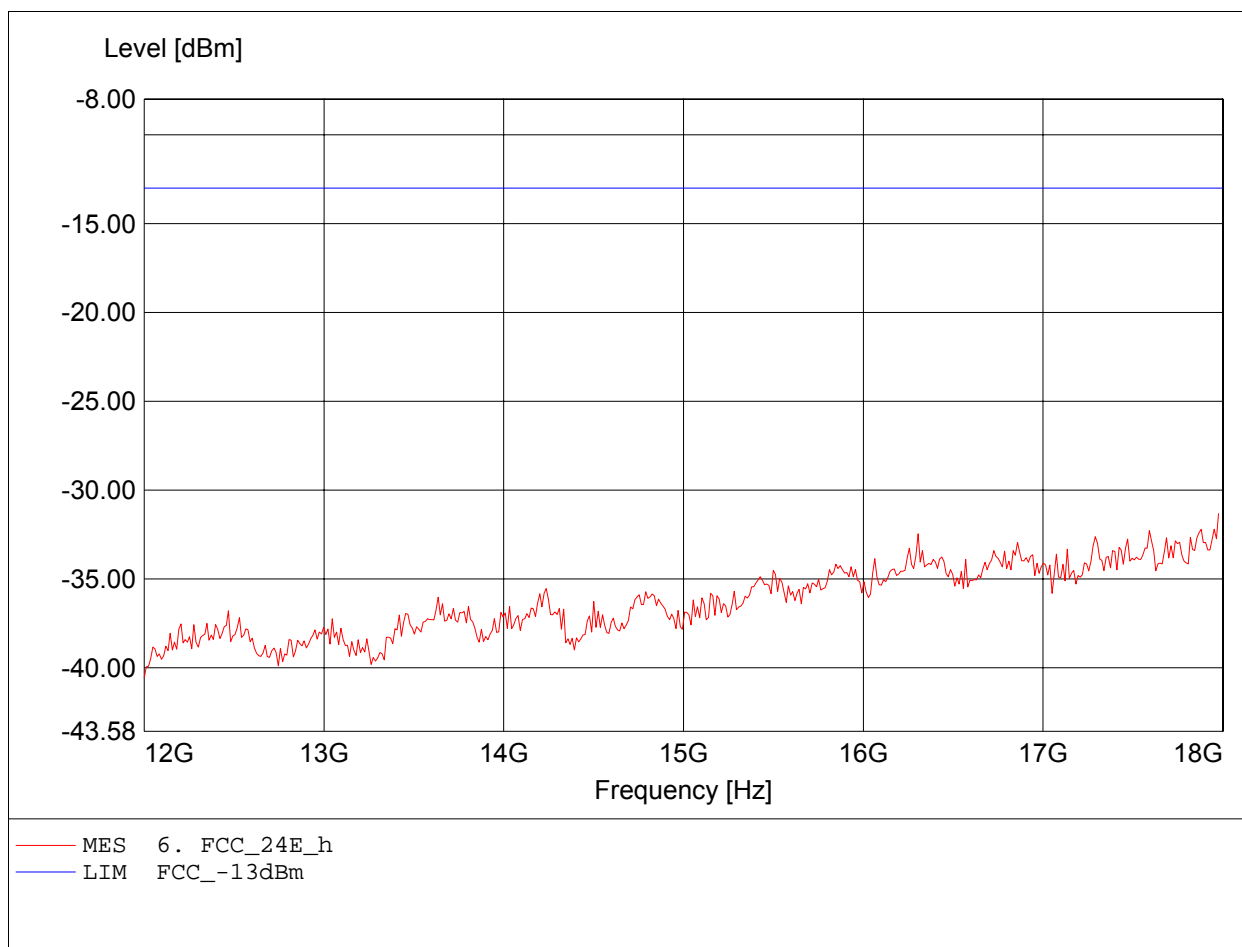
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.078GHz, Pmax: -38.06dBm, RBW: 1MHz



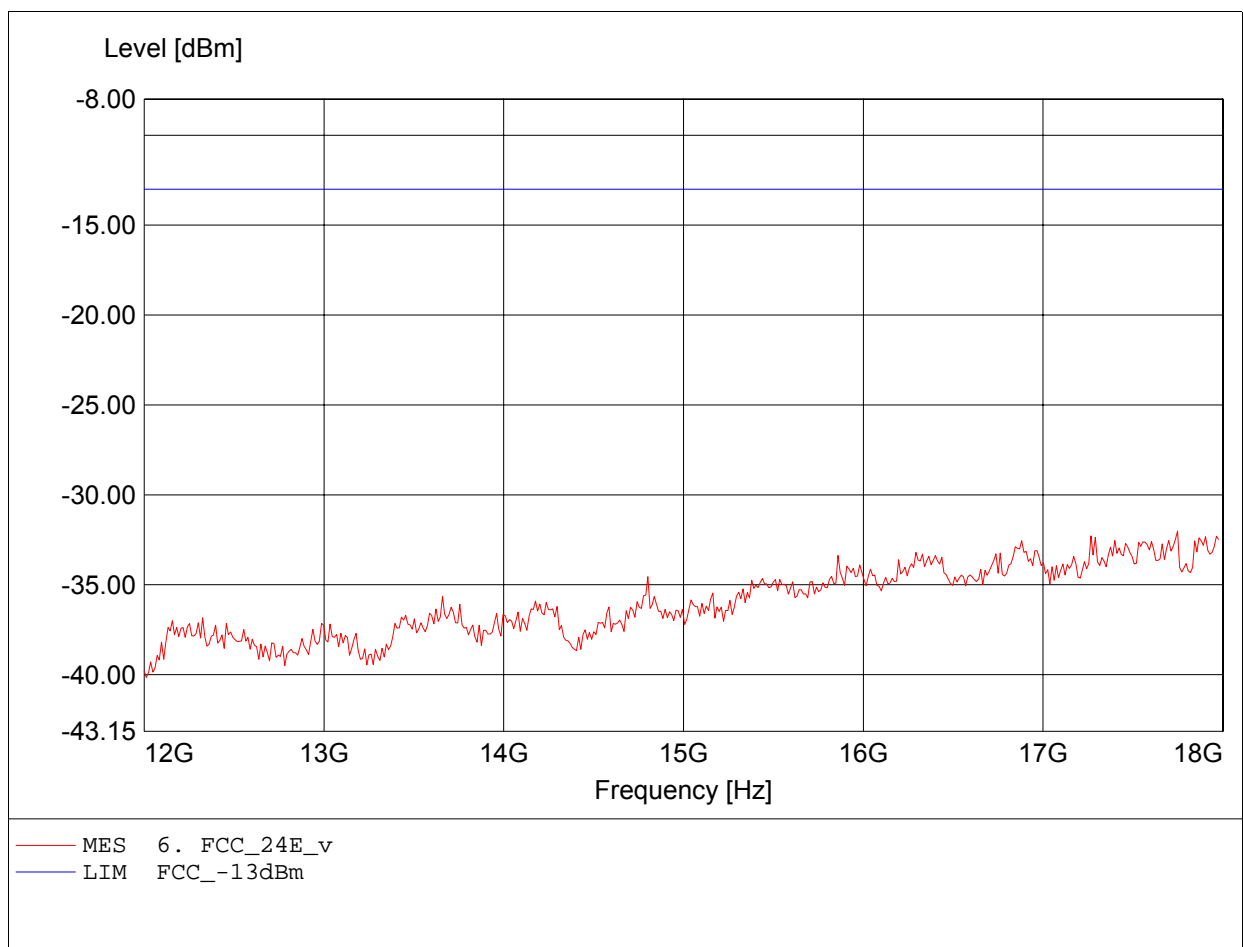
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 17.976GHz, Pmax: -31.33dBm, RBW: 1MHz



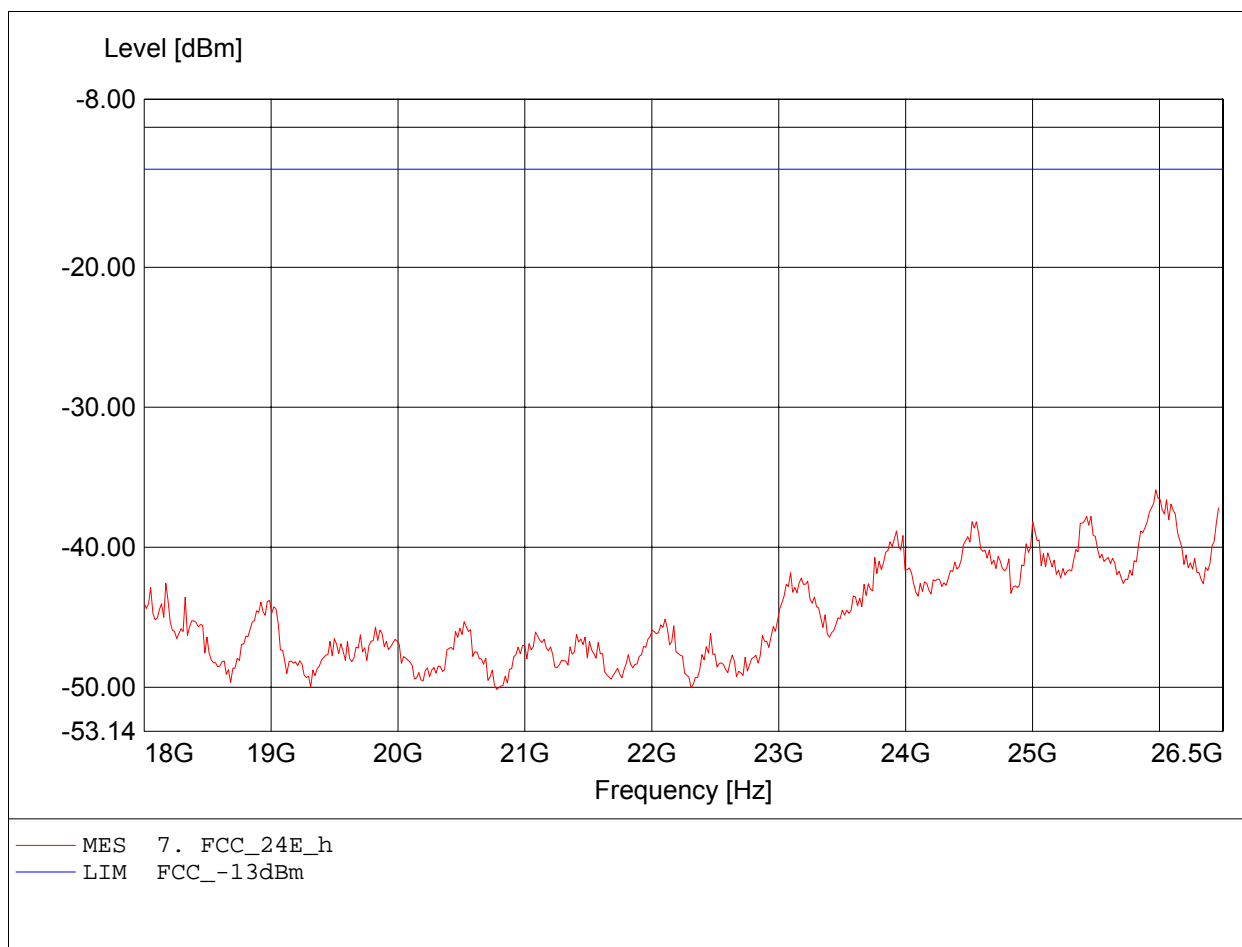
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 17.747GHz, Pmax: -32.02dBm, RBW: 1MHz



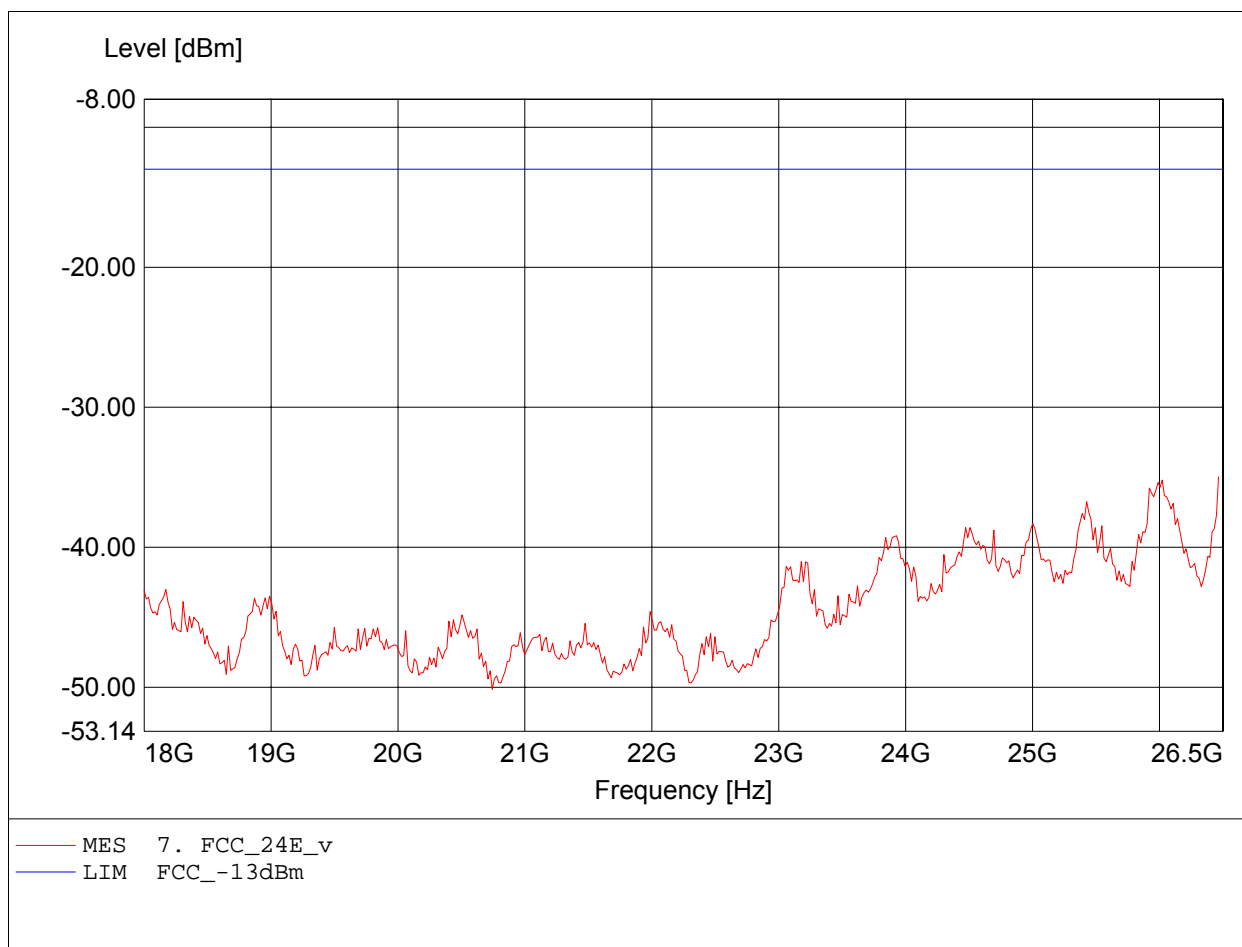
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 25.972GHz, Pmax: -35.89dBm, RBW: 1MHz



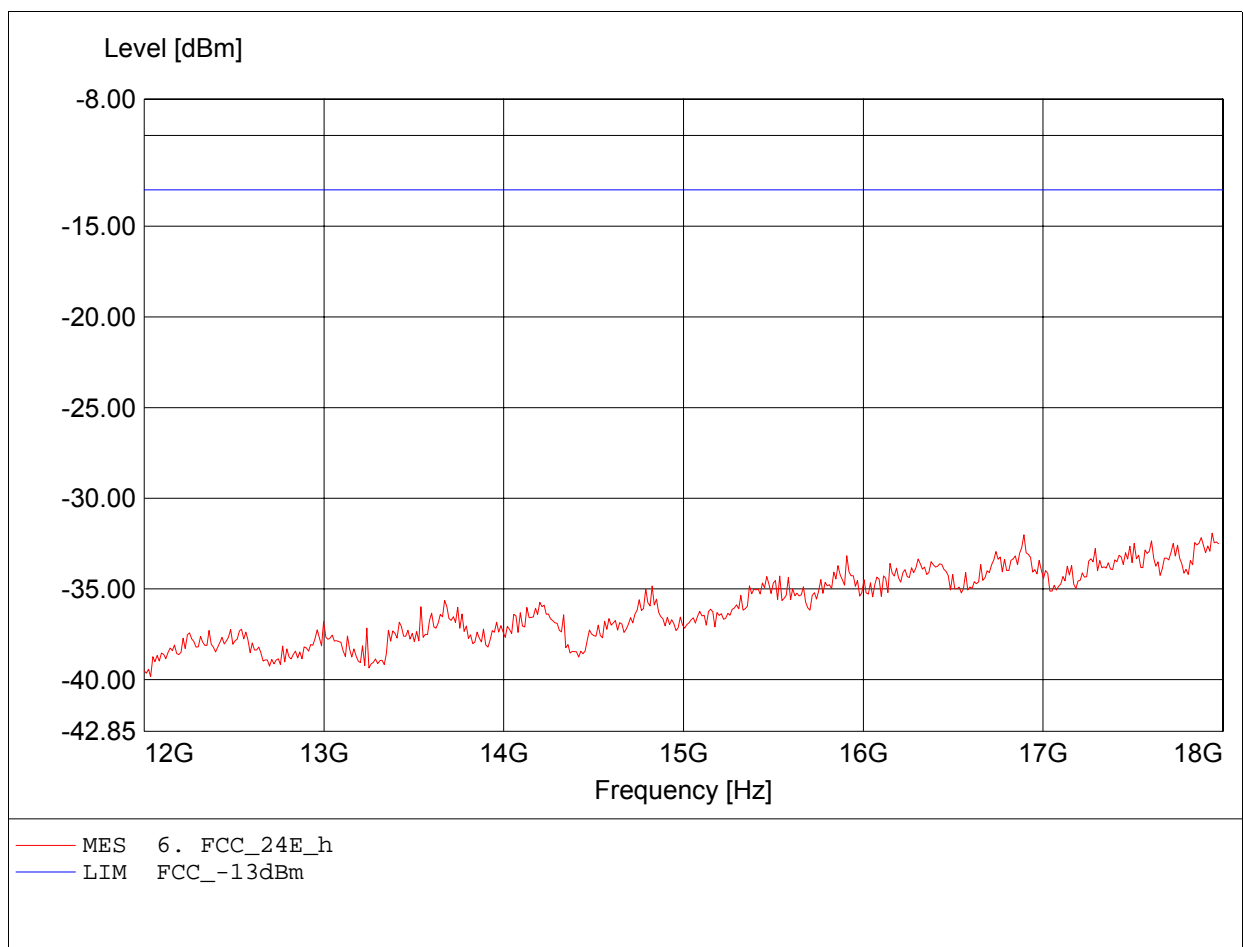
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 26.466GHz, Pmax: -34.98dBm, RBW: 1MHz



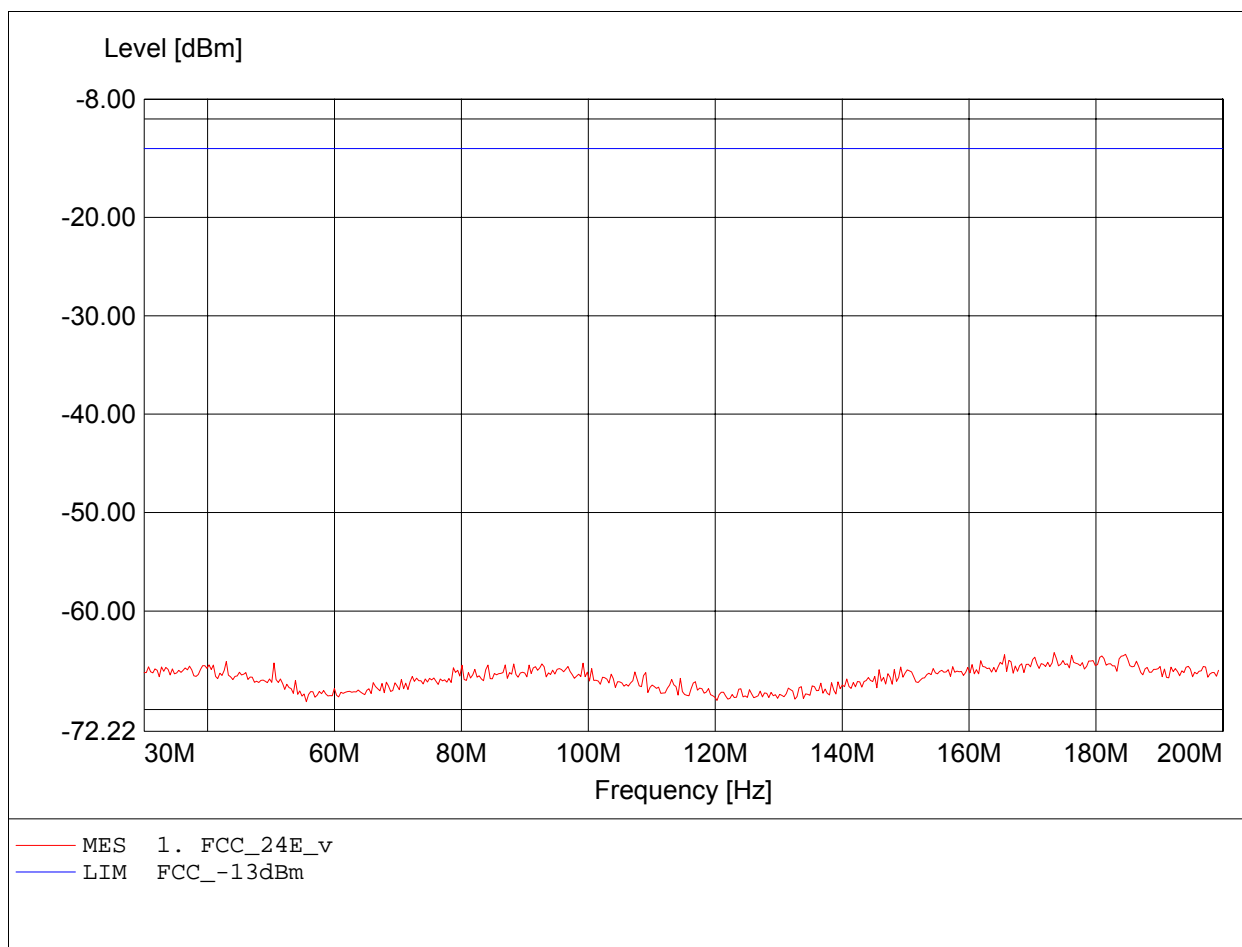
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 17.940GHz, Pmax: -31.92dBm, RBW: 1MHz



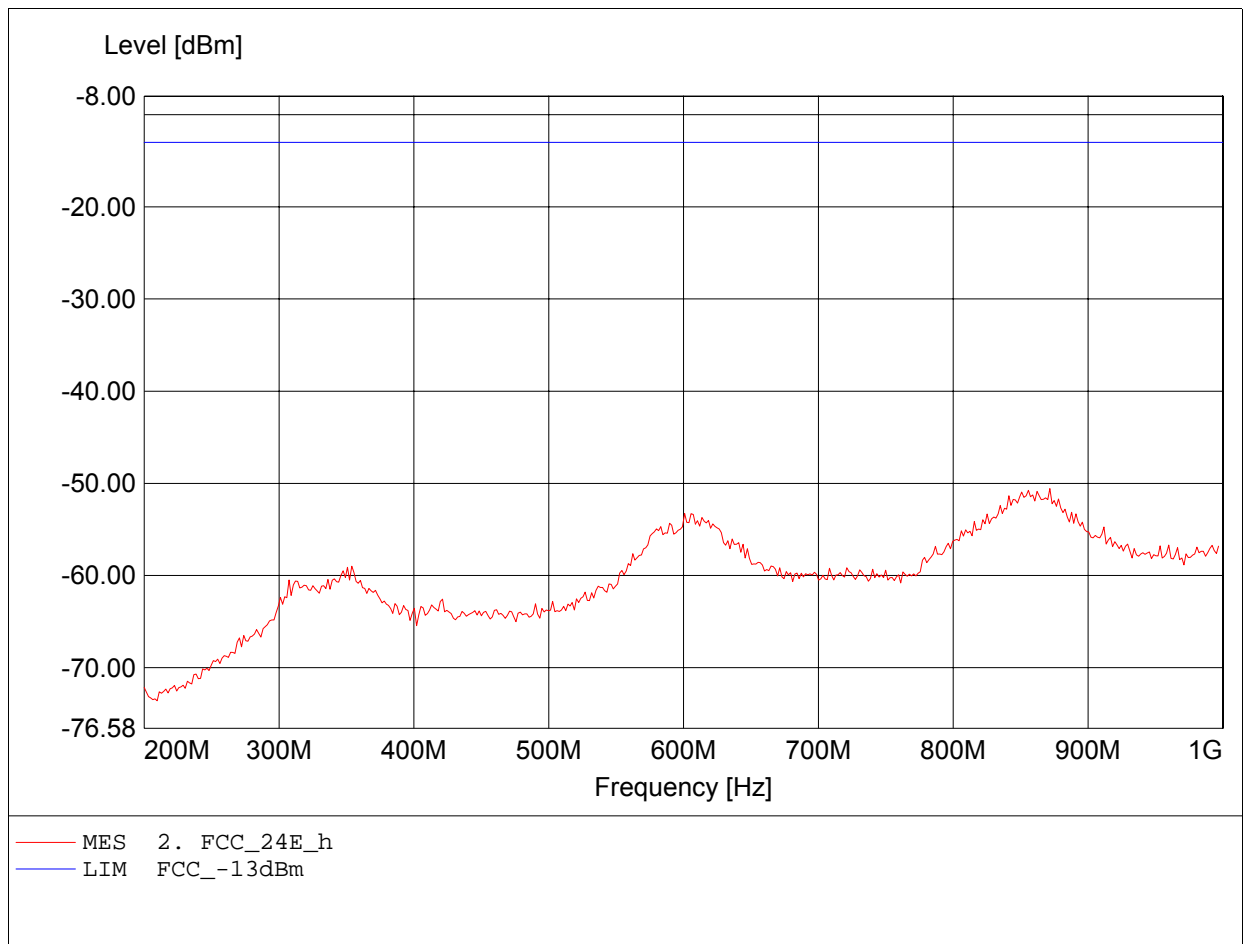
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 173.427MHz, Pmax: -64.22dBm, RBW: 100kHz



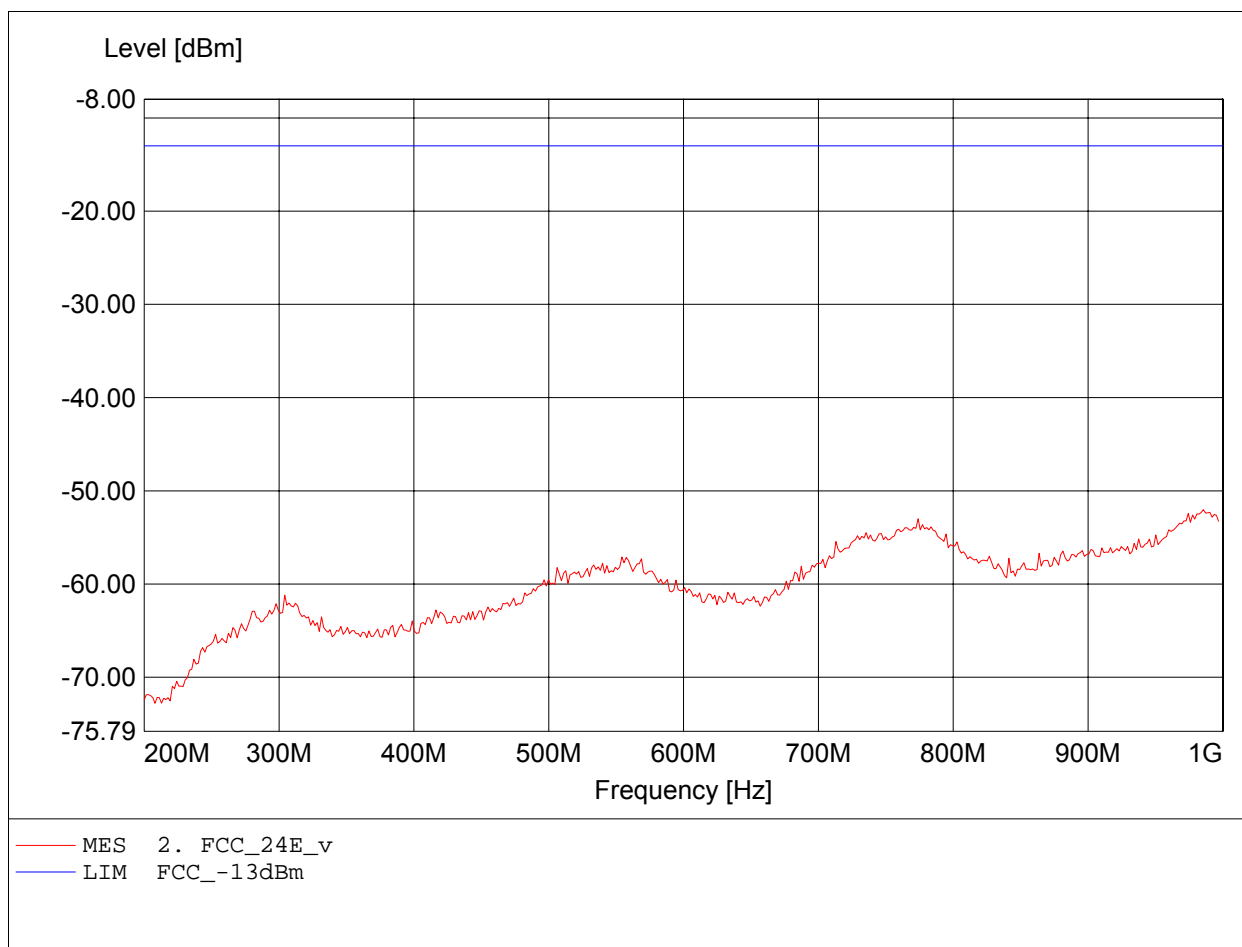
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 871.743MHz, Pmax: -50.56dBm, RBW: 100kHz



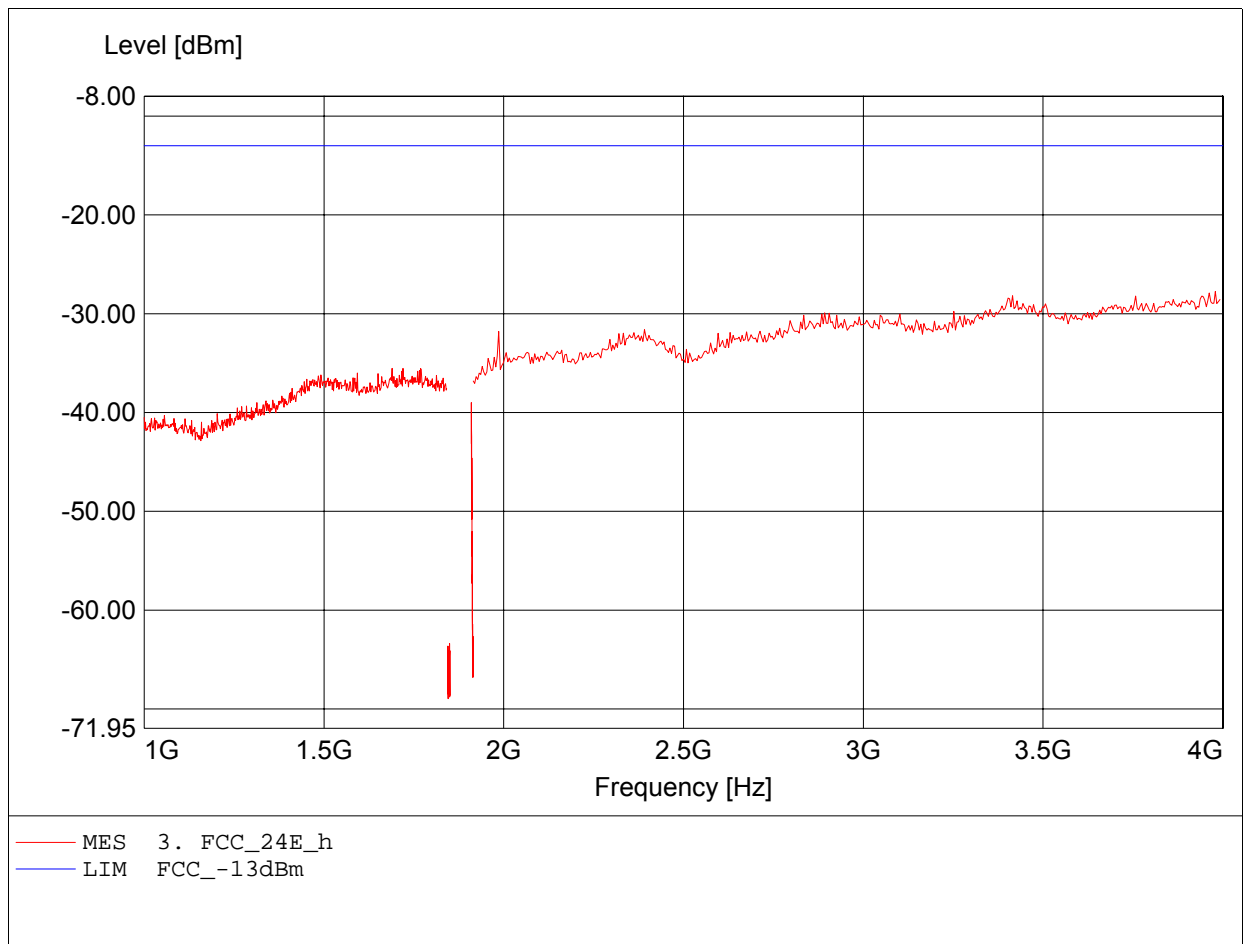
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 985.571MHz, Pmax: -52.02dBm, RBW: 100kHz



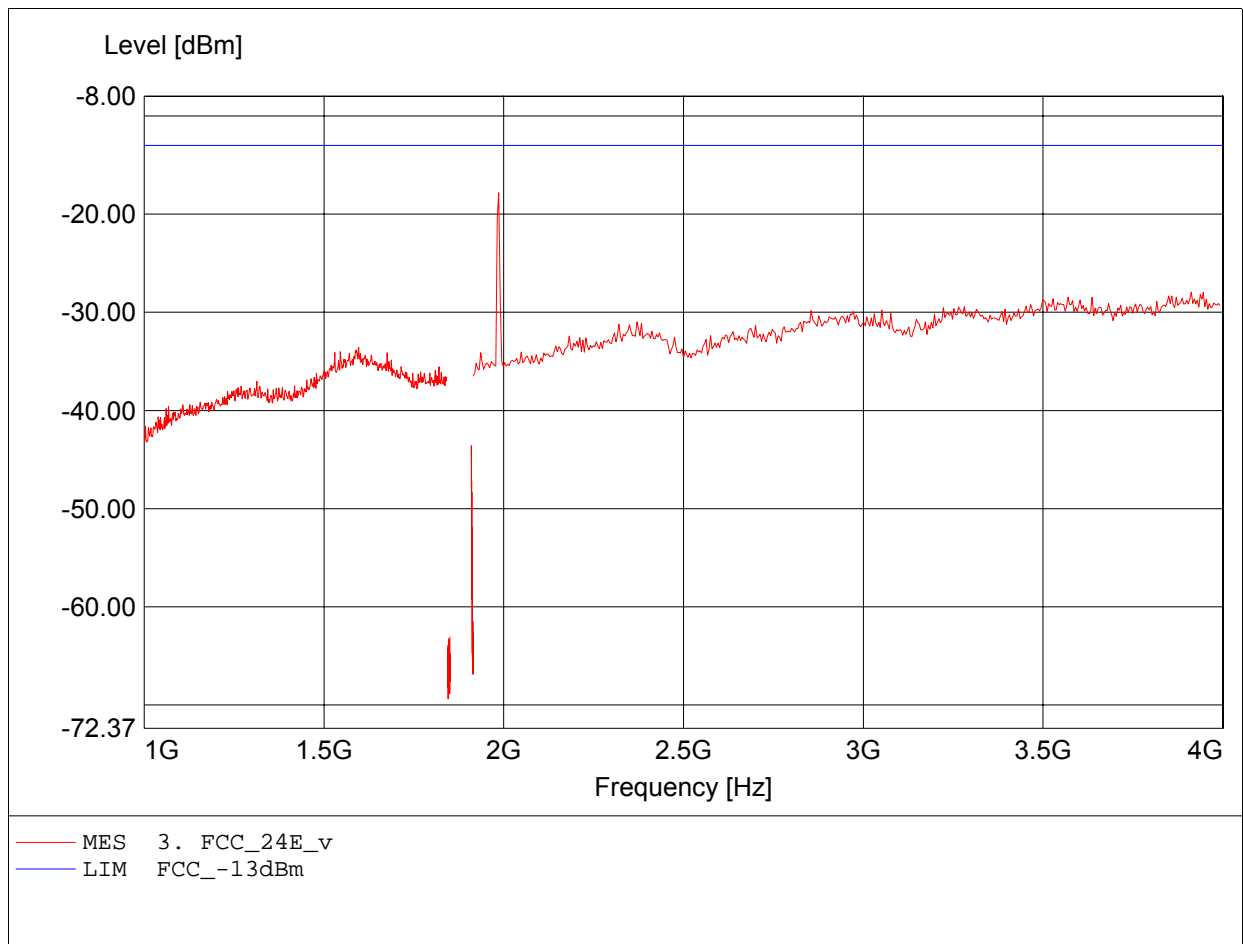
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 3.979GHz, Pmax: -27.76dBm, RBW: 1MHz/3kHz



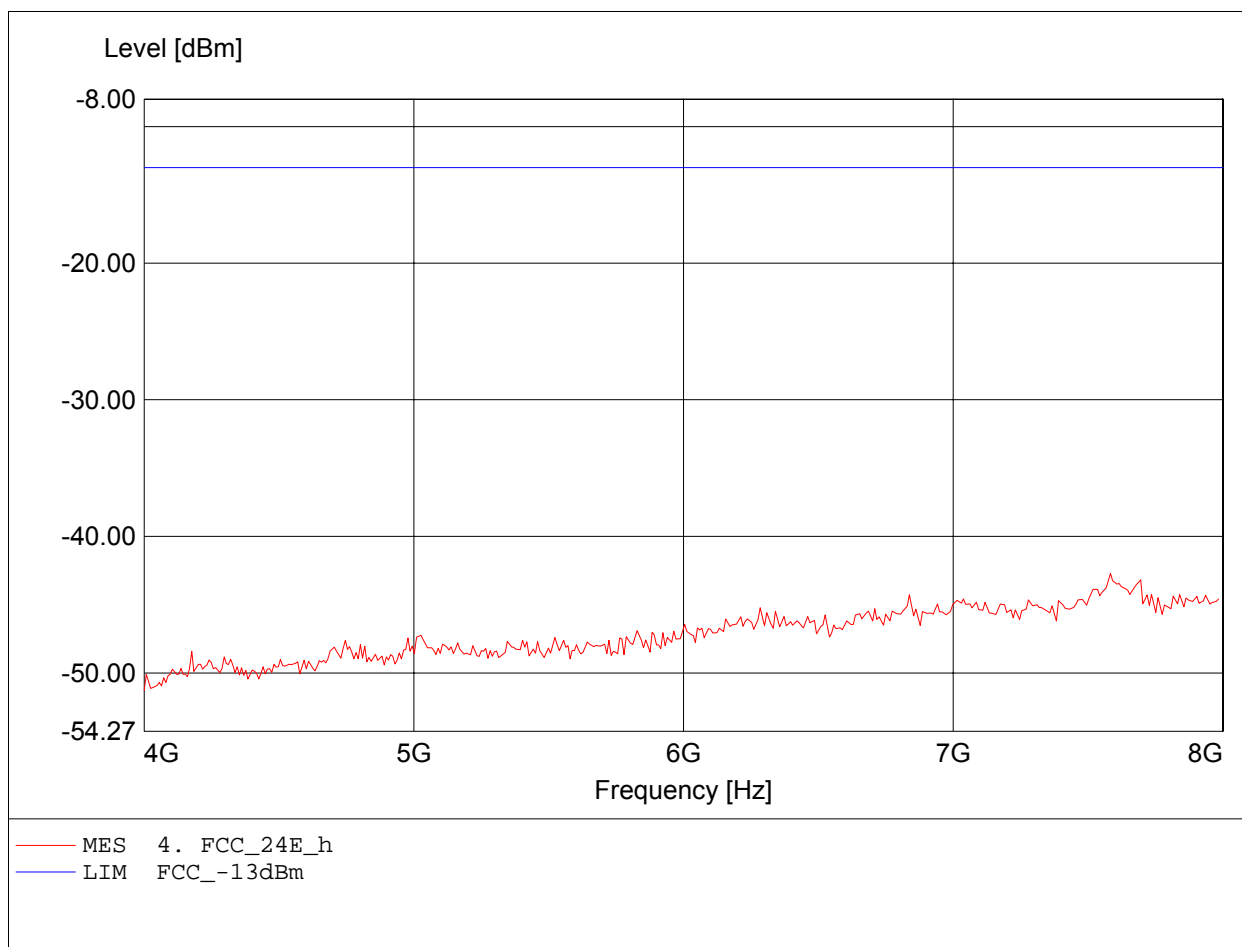
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 1.986GHz, Pmax: -17.82dBm, RBW: 1MHz/3kHz



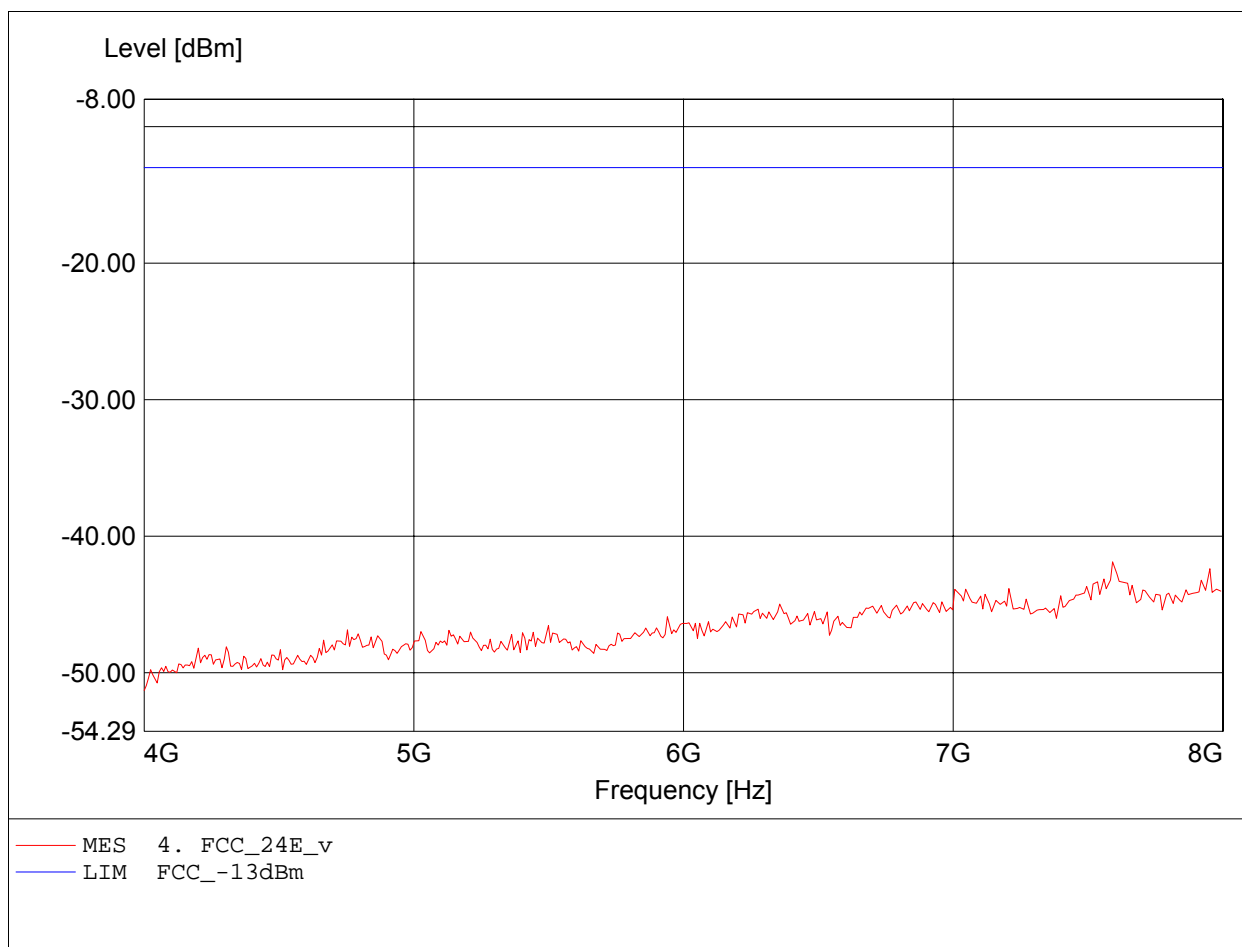
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.583GHz, Pmax: -42.72dBm, RBW: 1MHz



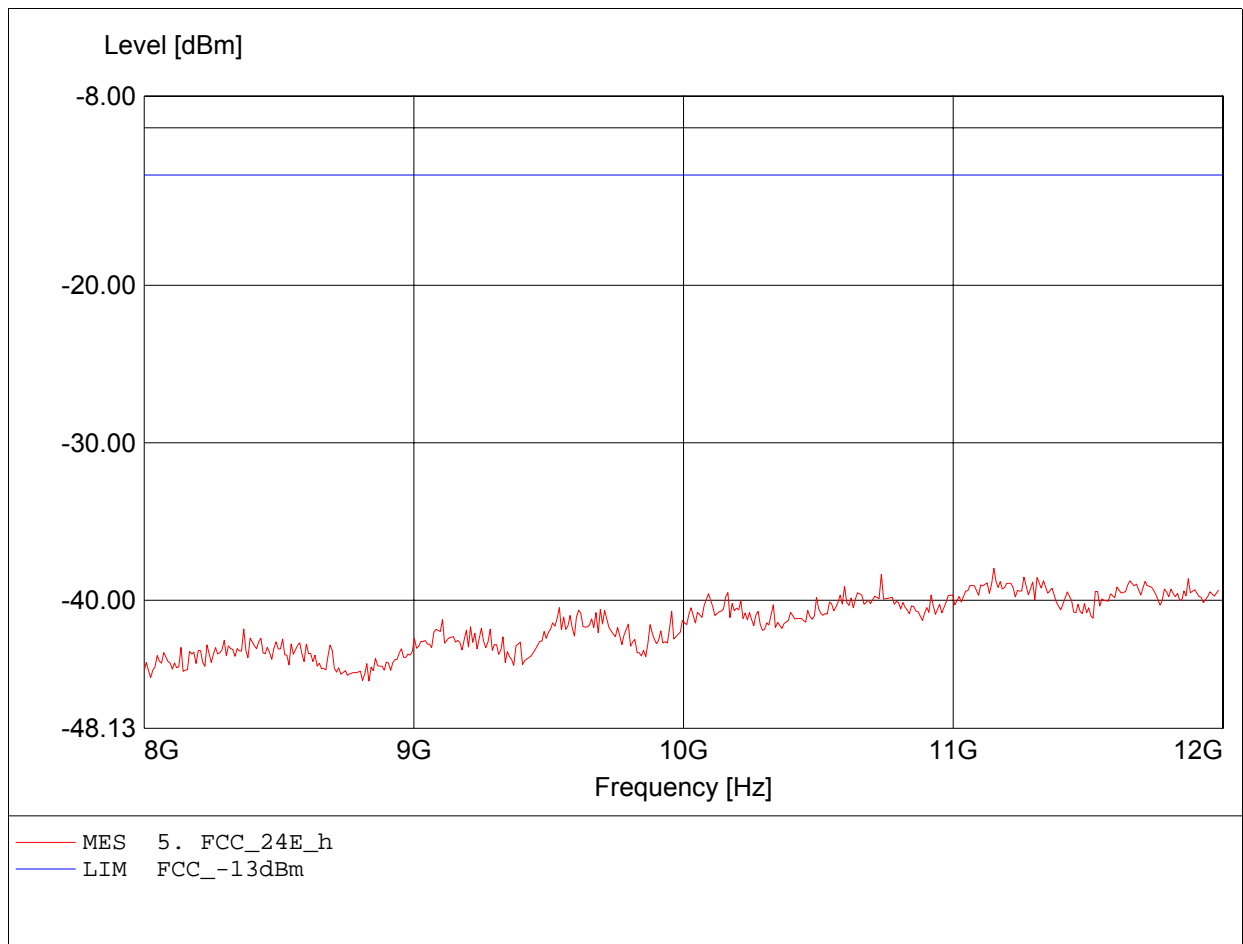
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.591GHz, Pmax: -41.88dBm, RBW: 1MHz



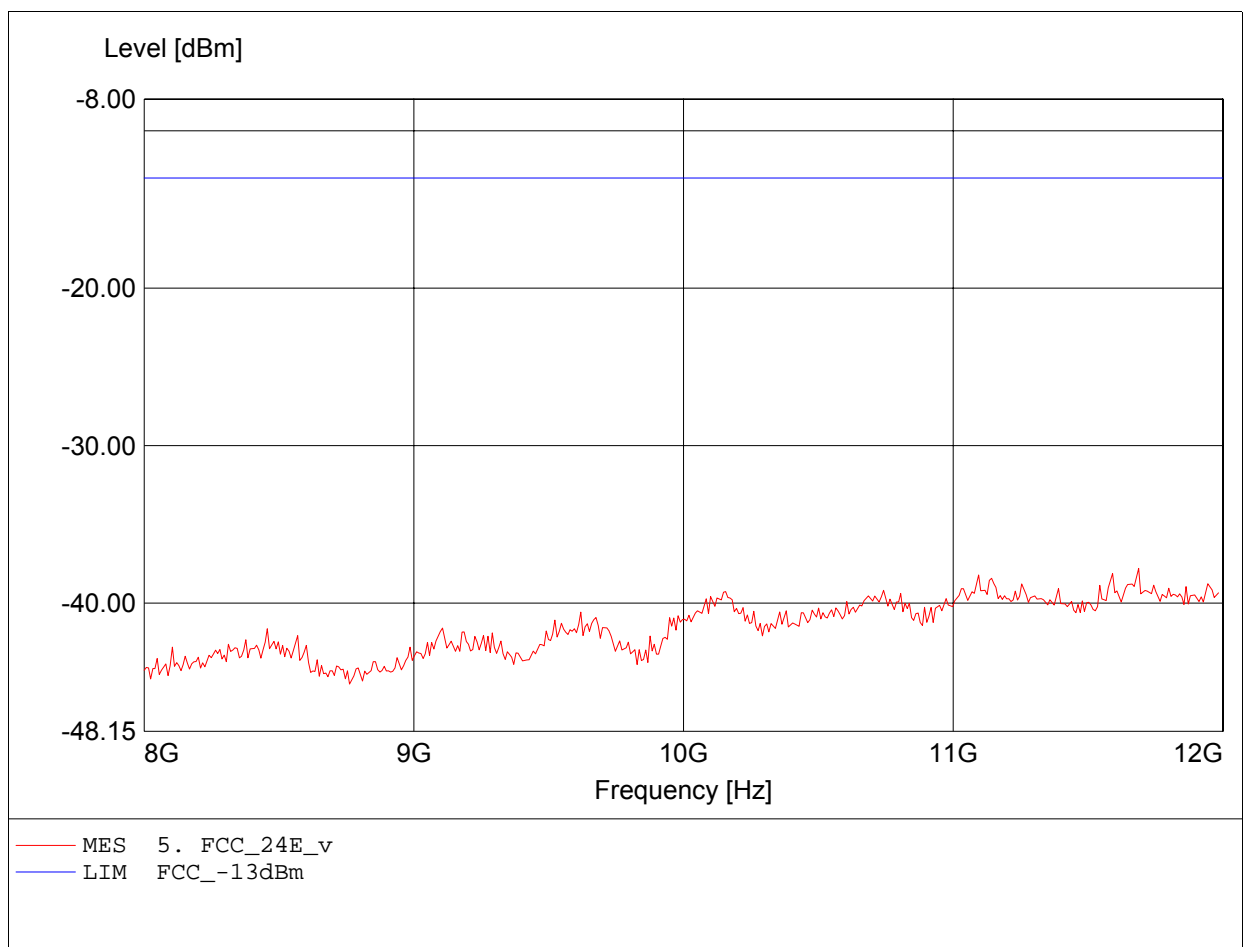
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.150GHz, Pmax: -37.97dBm, RBW: 1MHz



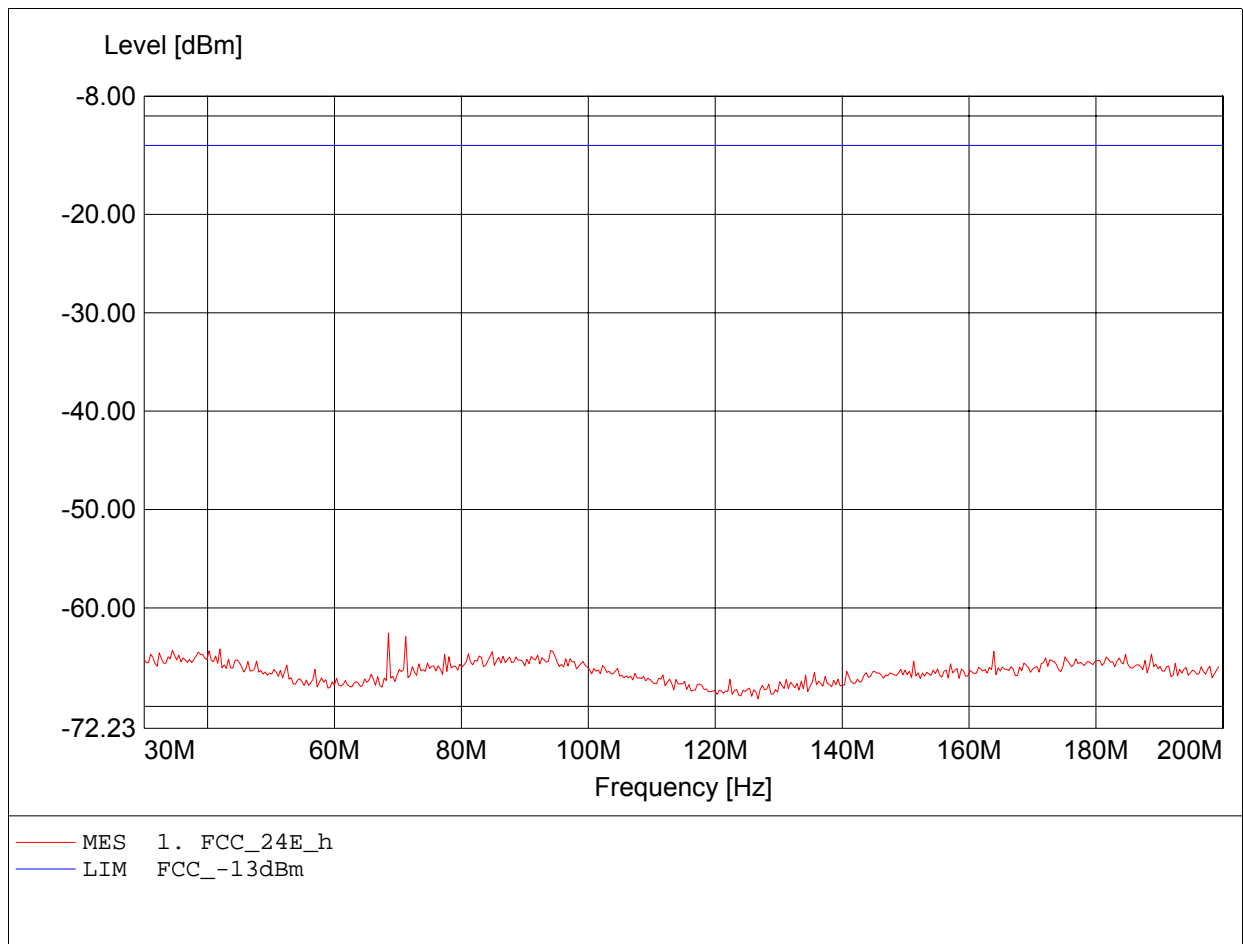
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.687GHz, Pmax: -37.80dBm, RBW: 1MHz



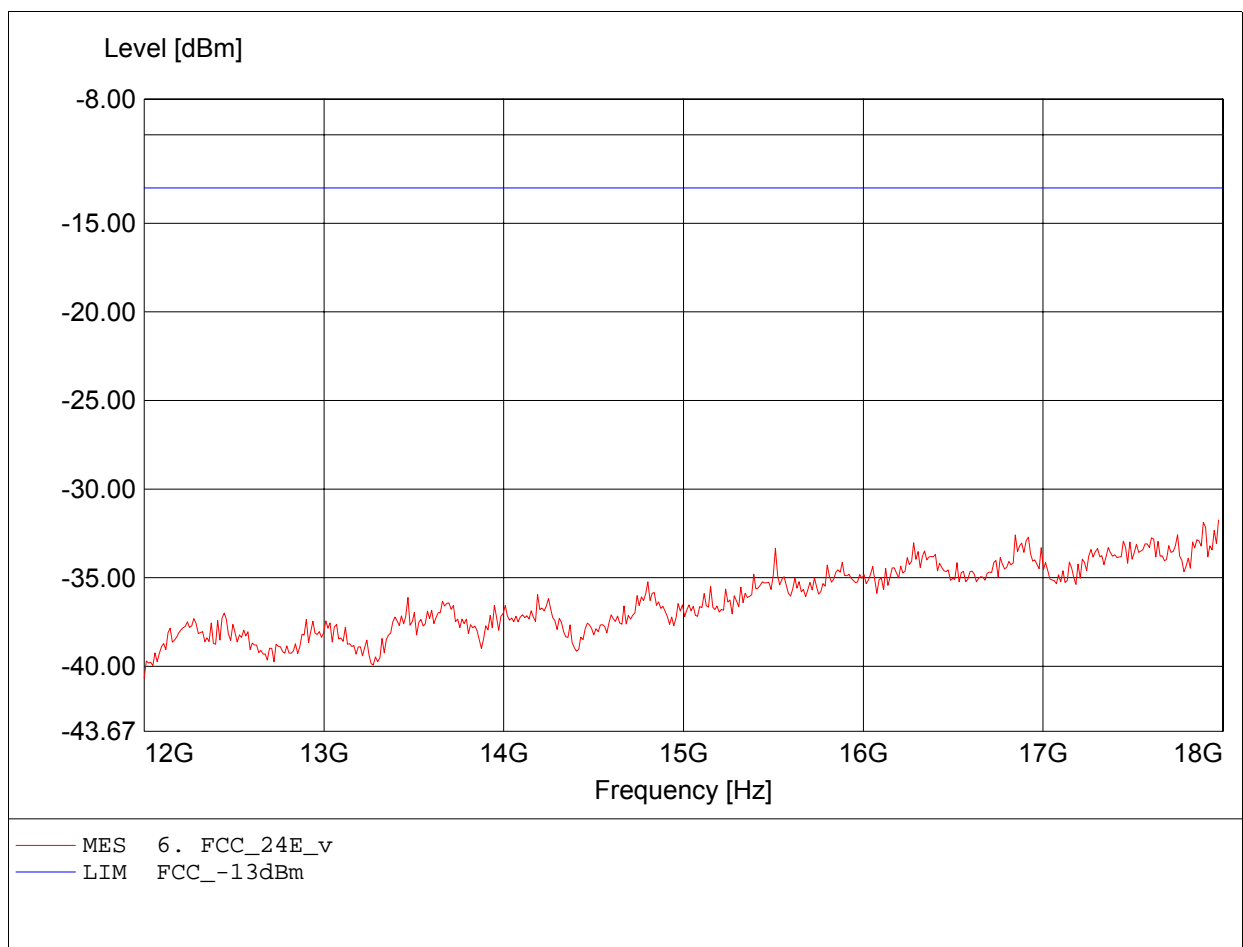
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 68.497MHz, Pmax: -62.55dBm, RBW: 100kHz



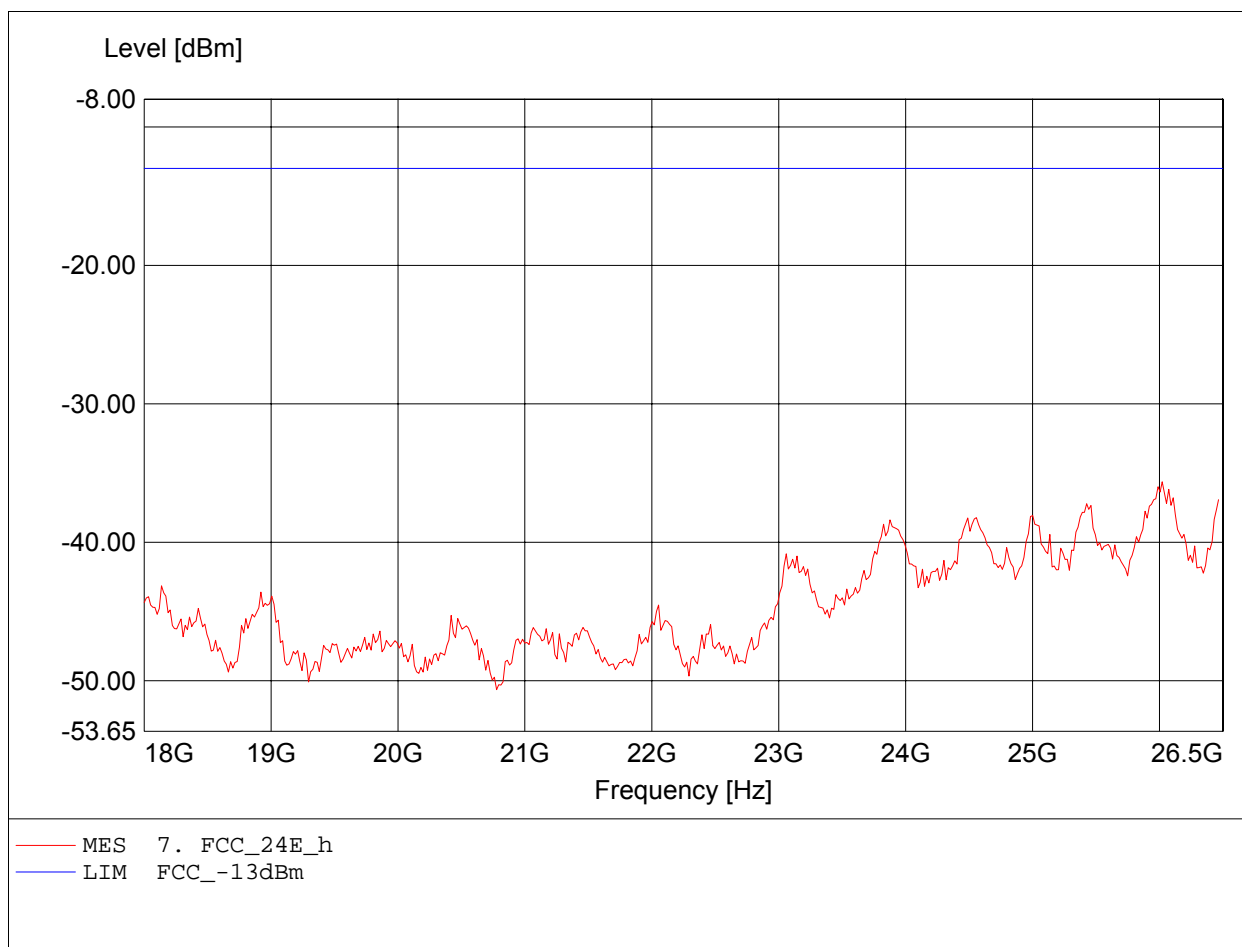
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 17.976GHz, Pmax: -31.75dBm, RBW: 1MHz



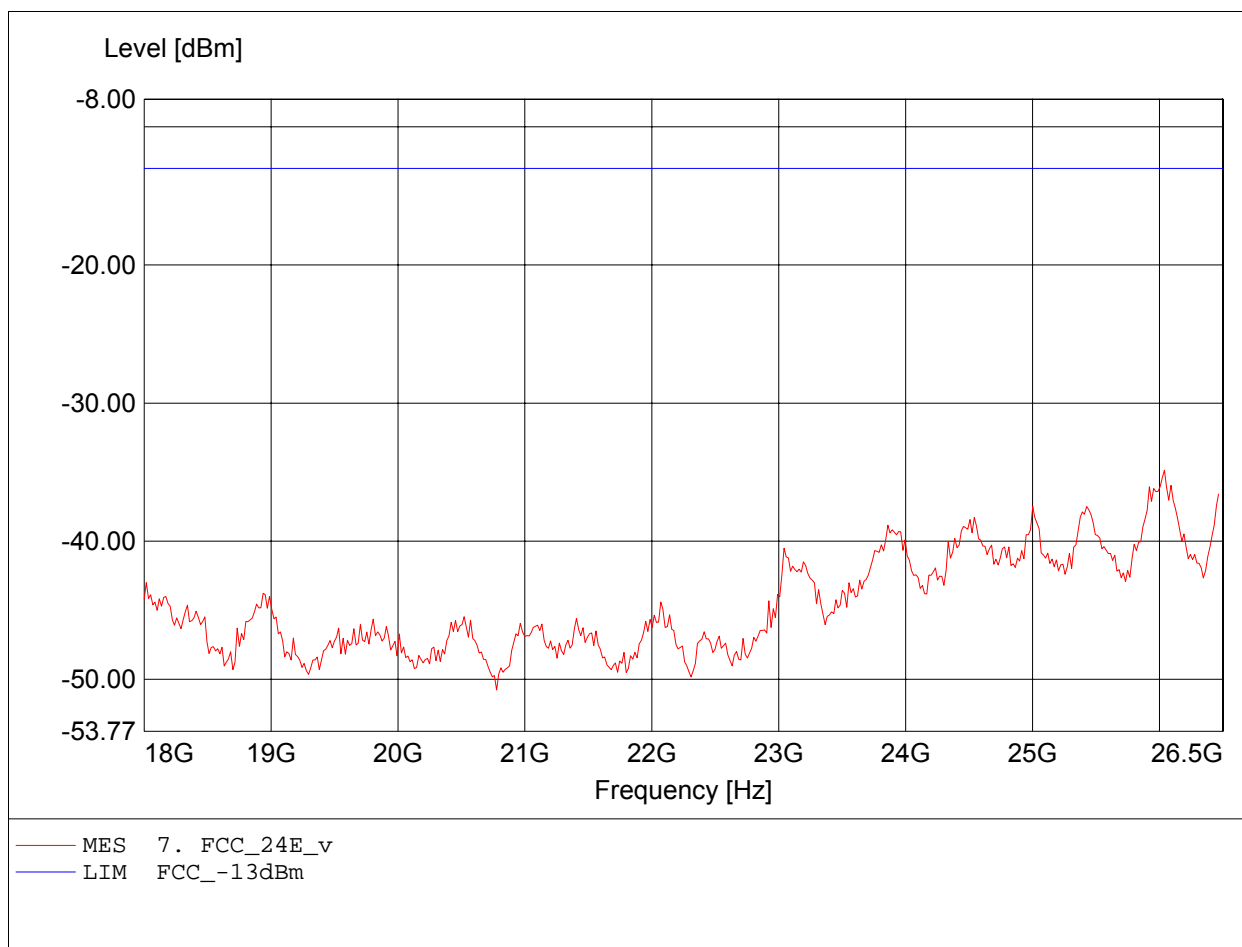
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 26.023GHz, Pmax: -35.62dBm, RBW: 1MHz



Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9537 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Walter
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to §24.238
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 26.040GHz, Pmax: -34.86dBm, RBW: 1MHz

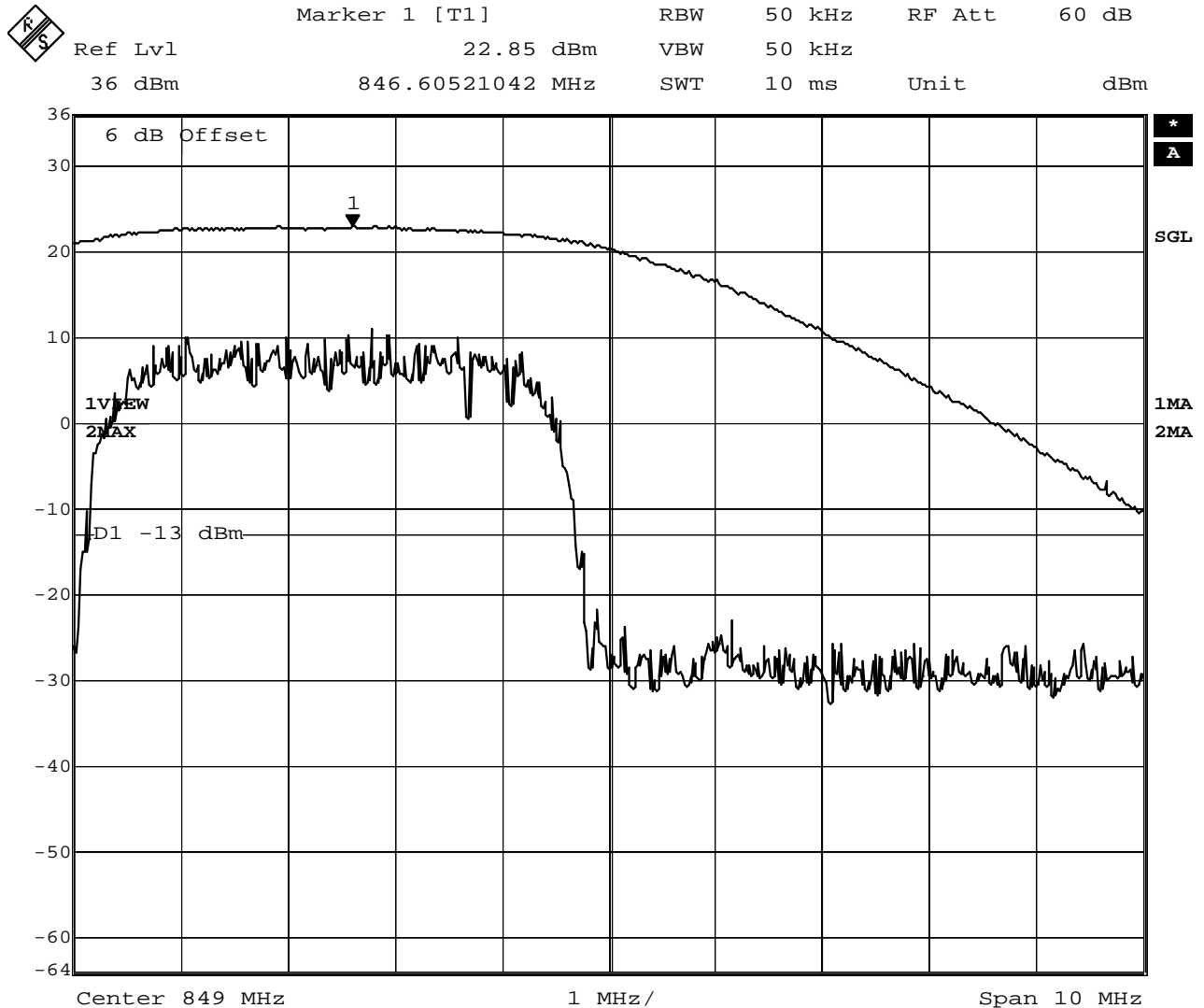


Annex F

Block edge compliance

**FCC Part 22 H
Higher Block edge**

| | |
|-----------------------|--|
| EUT | USB - Stick |
| Model | GI0322 / SNR: FW4286900V |
| Approval Holder | Option Wireless Germany GmbH |
| Temperature / Voltage | 23°C / V_USB: 5 V +/- 0.25 V |
| Test Site / Operator | Eurofins Product Service GmbH / G0M20806-1862 / Mr. Walter |
| Test Specification | FCC Part 22 Subpart H |
| Comment 1 | Channel: 4232 |
| Comment 2 | |
| Comment 3 | |



Date: 21.JUN.2008 12:22:55

Measurement diagram

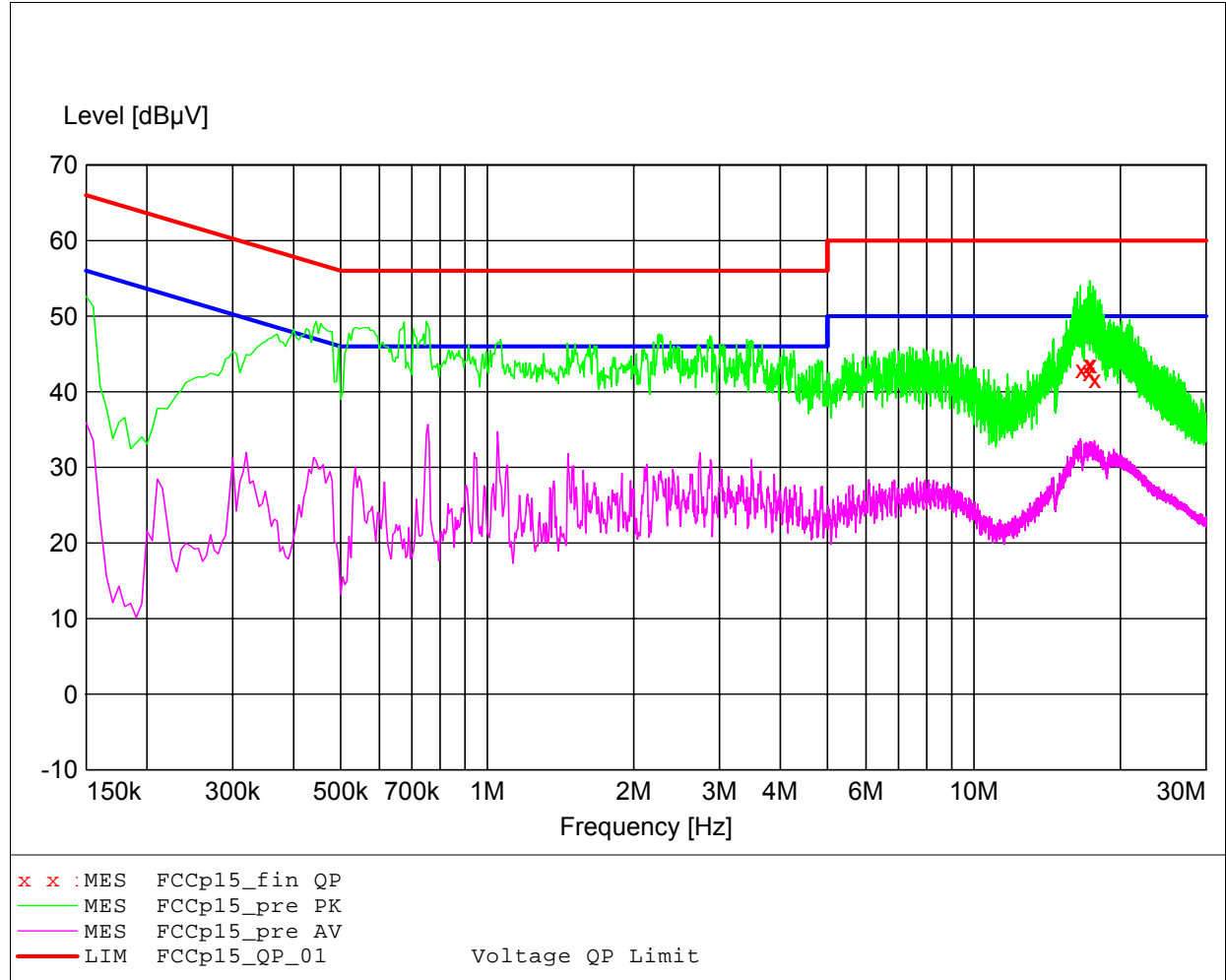
 Eurofins ETS Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Annex G

AC power line conducted emissions

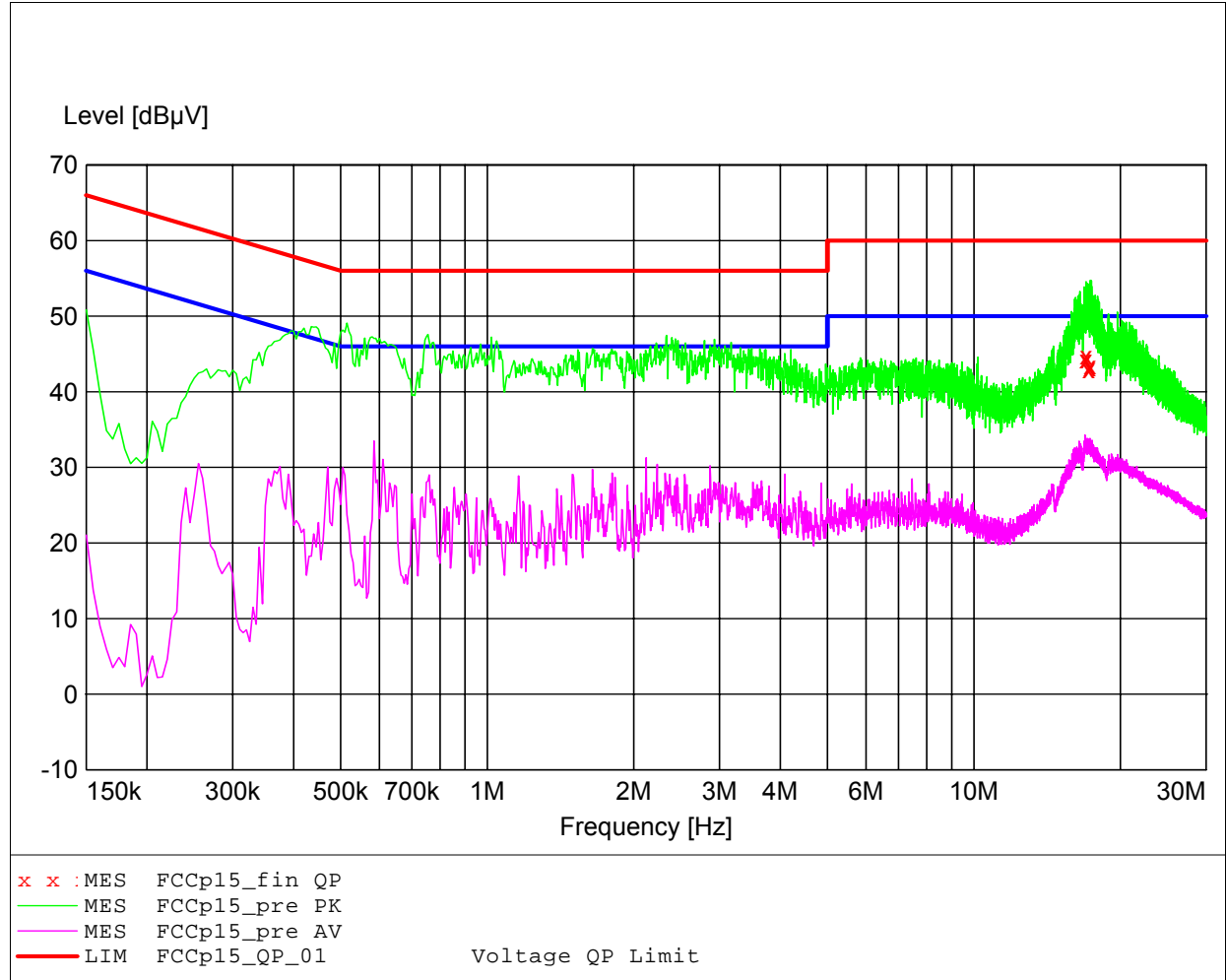
EMI voltage test in the ac-mains according to FCC part 15

Approval Holder: Option Wireless Germany GmbH
 EUT: USB Wireless Modem
 Model: GIO322
 Test Site / Operator: Eurofins ETS Production Service GmbH / Mr. Meng
 Test Conditions: Unom: 120 V/AC (AC/DC adaptor), Tnom: 23°C
 Test Specification: V-Network: ESH2-Z5 (L1)
 Comment 1: mode: GSM 850 traffic
 Comment 2:



EMI voltage test in the ac-mains according to FCC part 15

Approval Holder: Option Wireless Germany GmbH
 EUT: USB Wireless Modem
 Model: GIO322
 Test Site / Operator: Eurofins ETS Production Service GmbH / Mr. Meng
 Test Conditions: Unom: 120 V/AC (AC/DC adaptor), Tnom: 23°C
 Test Specification: V-Network: ESH2-Z5 (N)
 Comment 1: mode: GSM 850 traffic
 Comment 2:

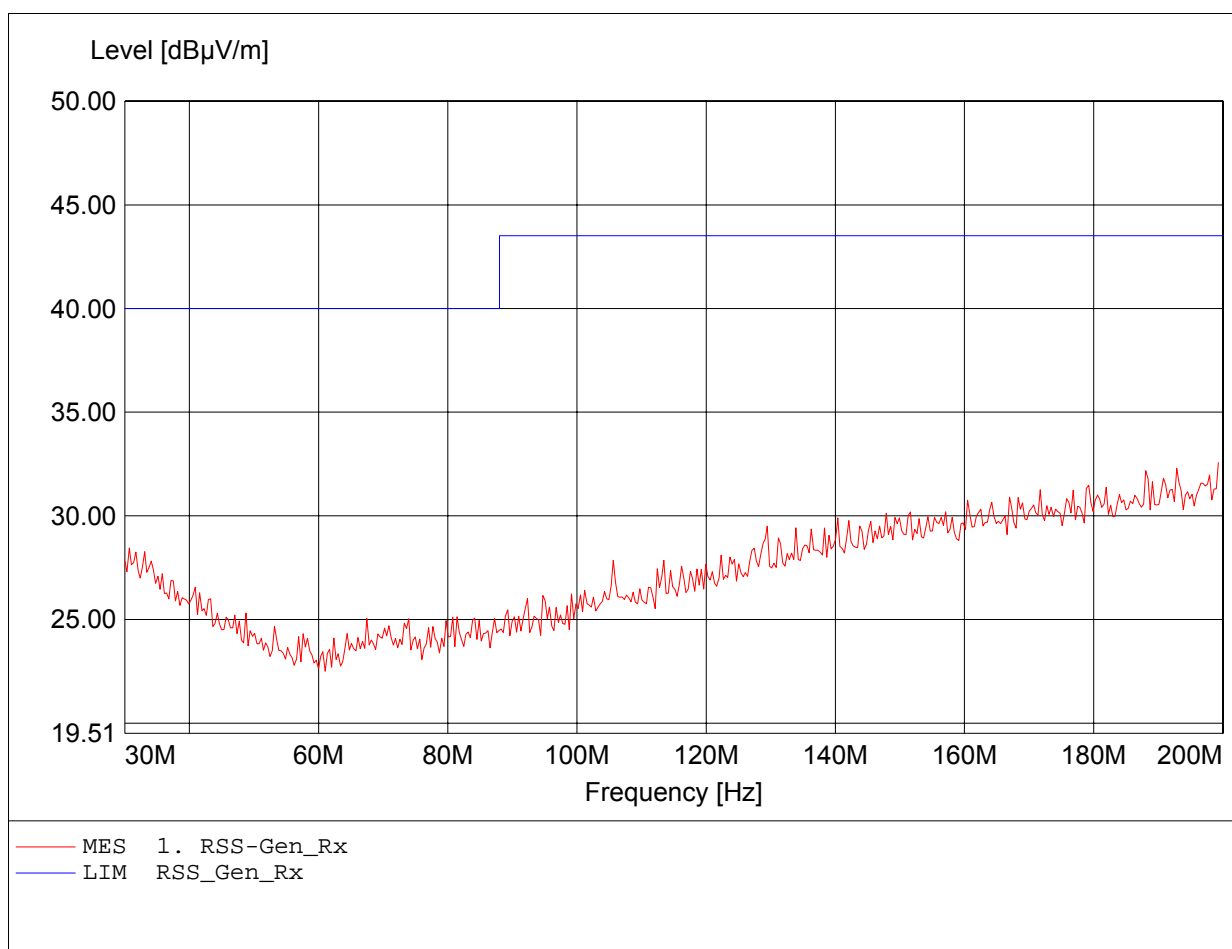


Annex H

Receiver radiated emission

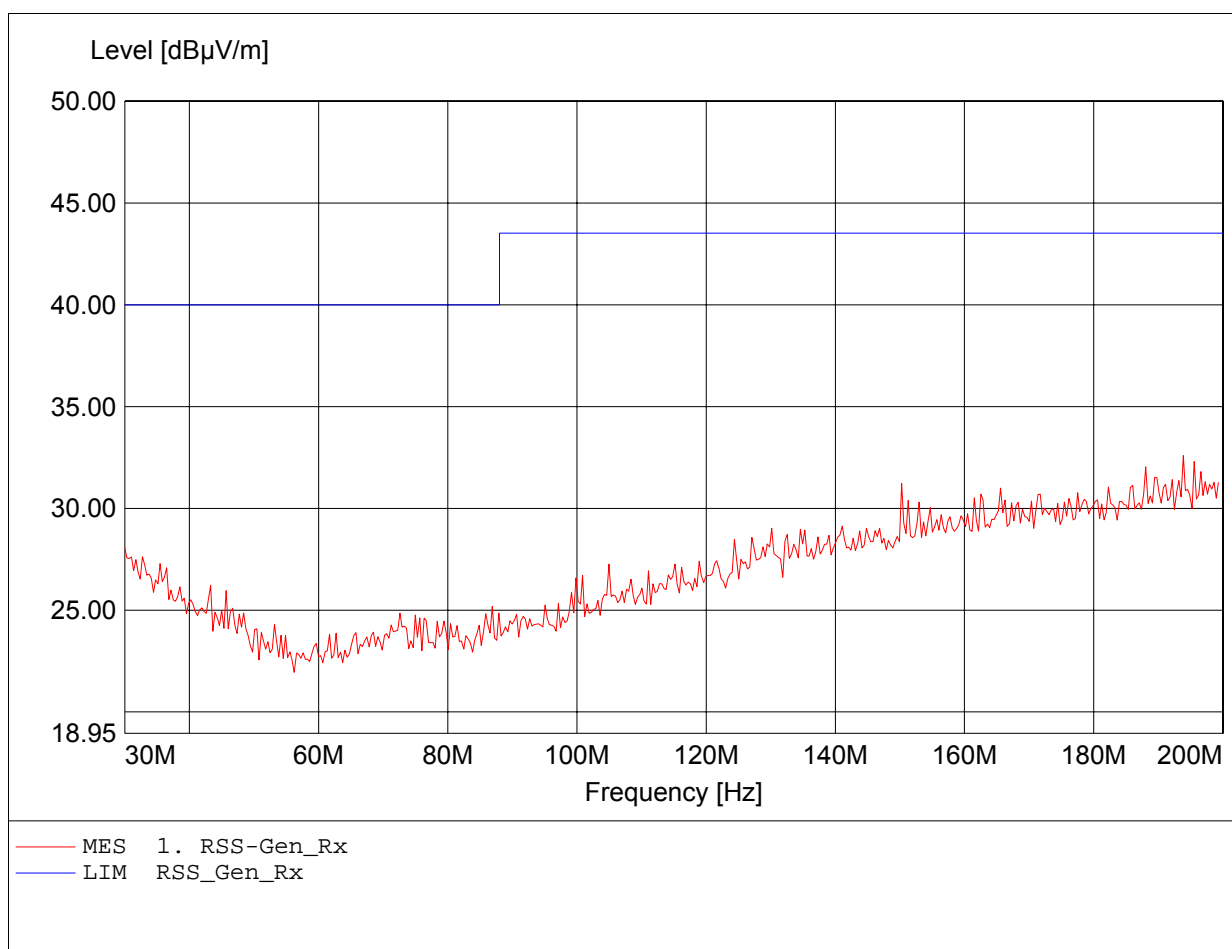
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:199.319MHz Emax:32.57dBµV/m RBW: 100 kHz



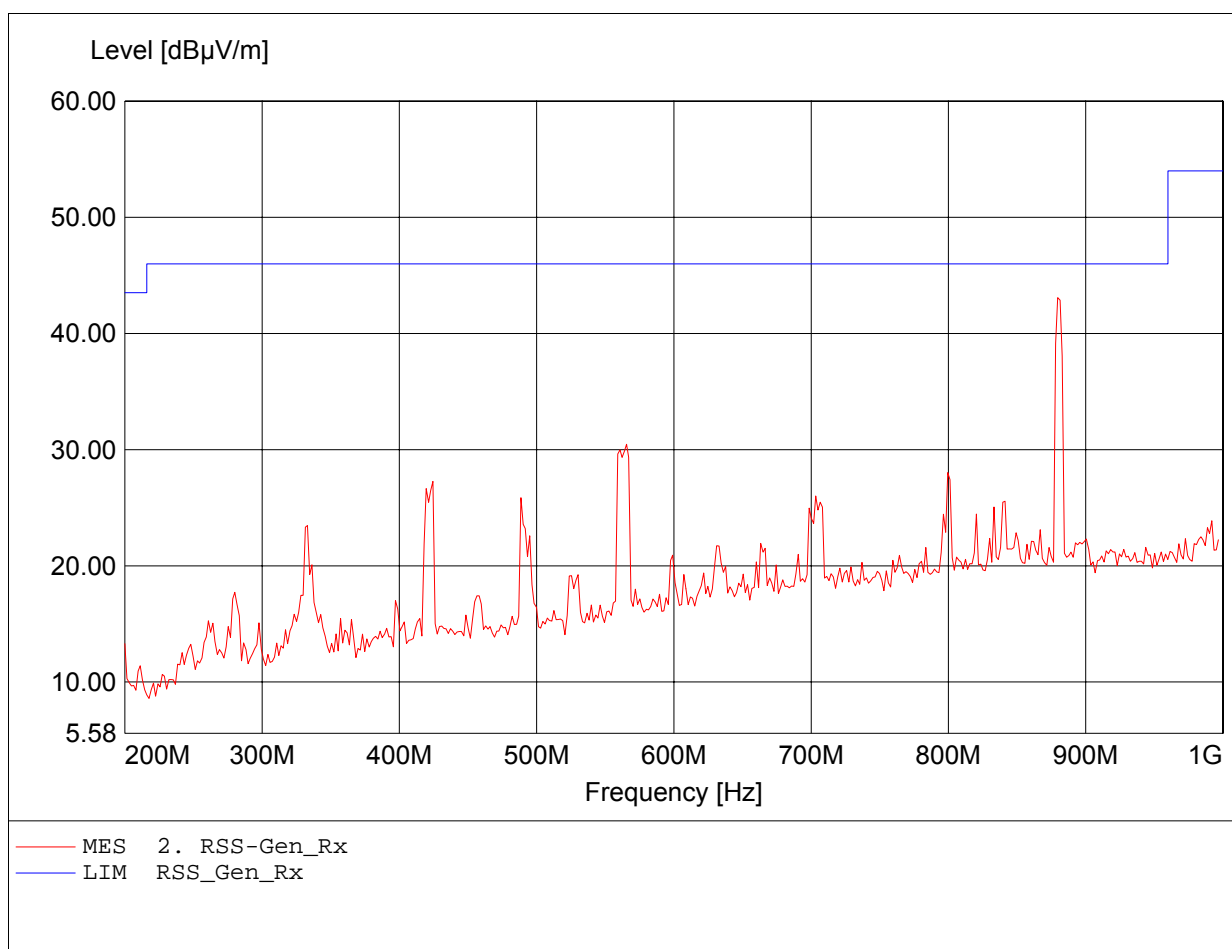
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:193.868MHz Emax:32.59dBµV/m RBW: 100 kHz



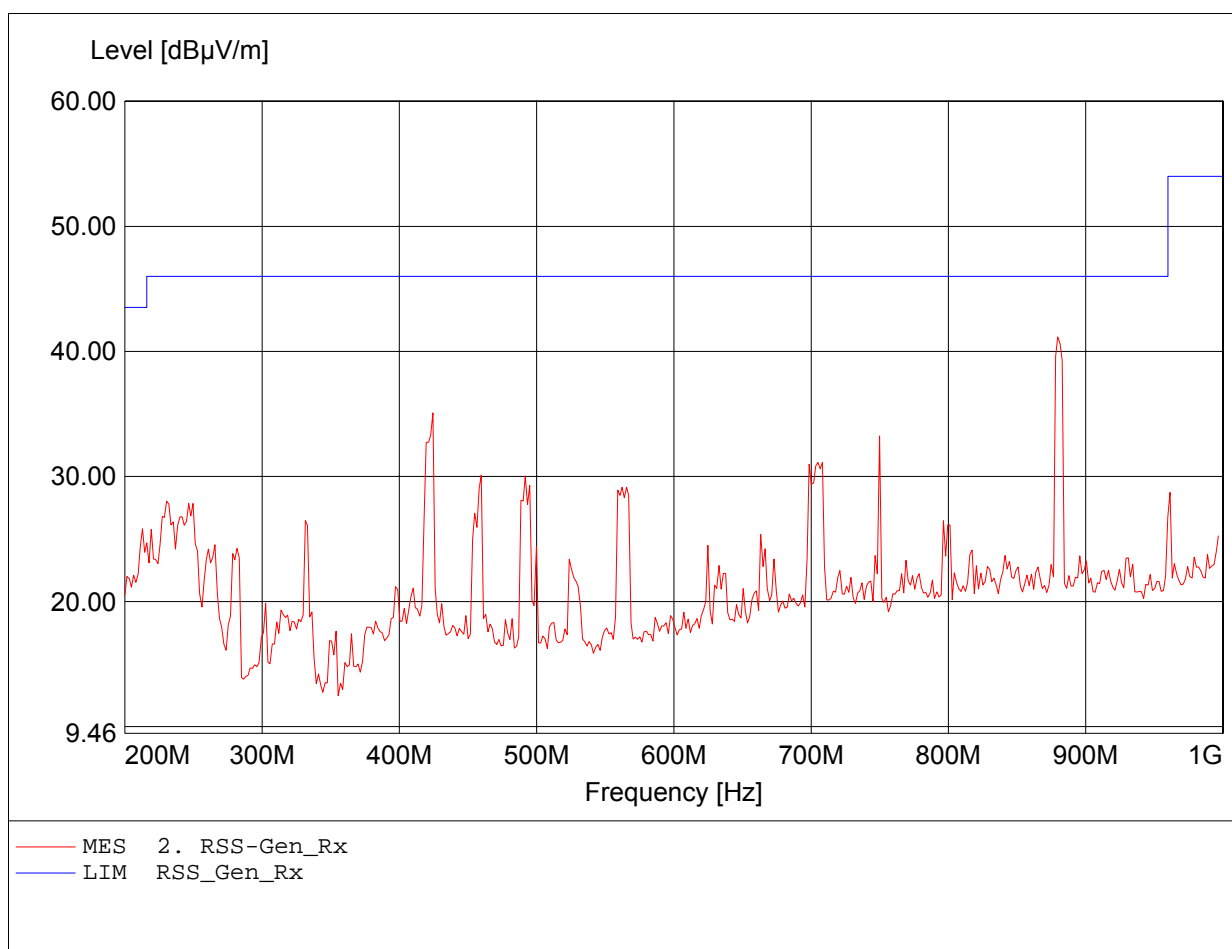
**Field Strength under normal conditions
Standards Industry Canada, RSS-GEN**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Comment 2: Freq:879.760MHz Emax:43.09dBµV/m RBW: 100 kHz



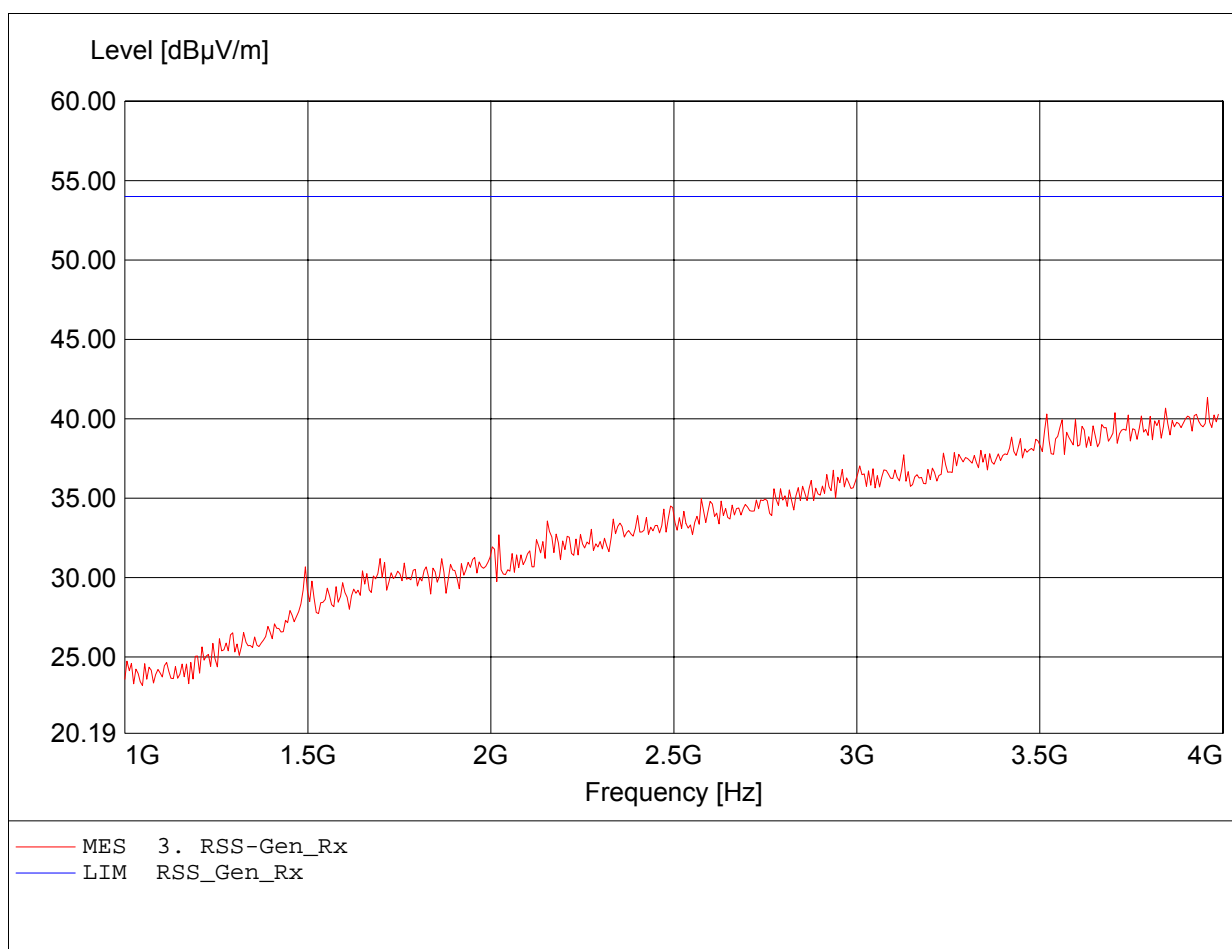
**Field Strength under normal conditions
Standards Industry Canada, RSS-GEN**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Comment 2: Freq:879.760MHz Emax:41.17dBµV/m RBW: 100 kHz



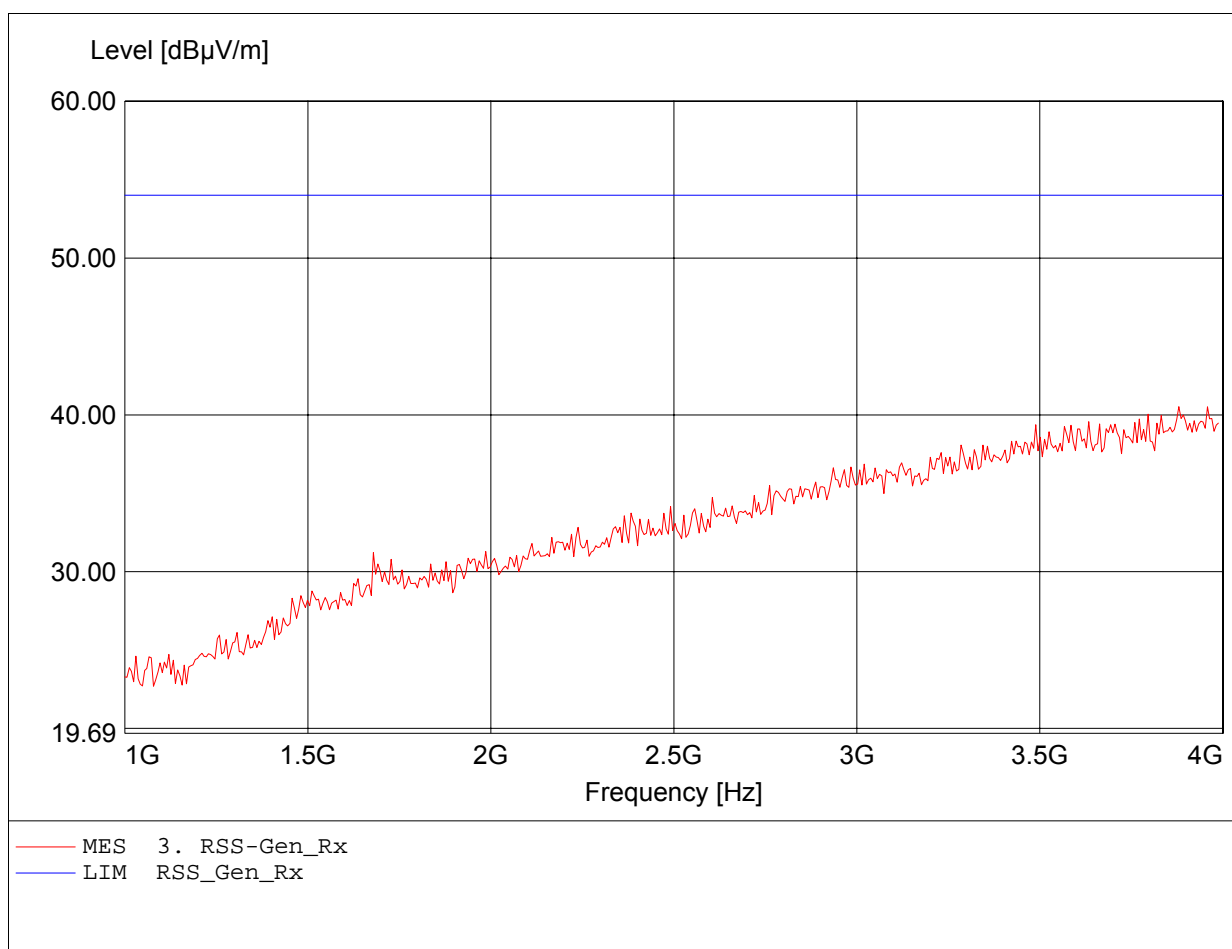
**Field Strength under normal conditions
Standards Industry Canada, RSS-GEN**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:3.958GHz Emax:41.34dBµV/m RBW: 1 MHz



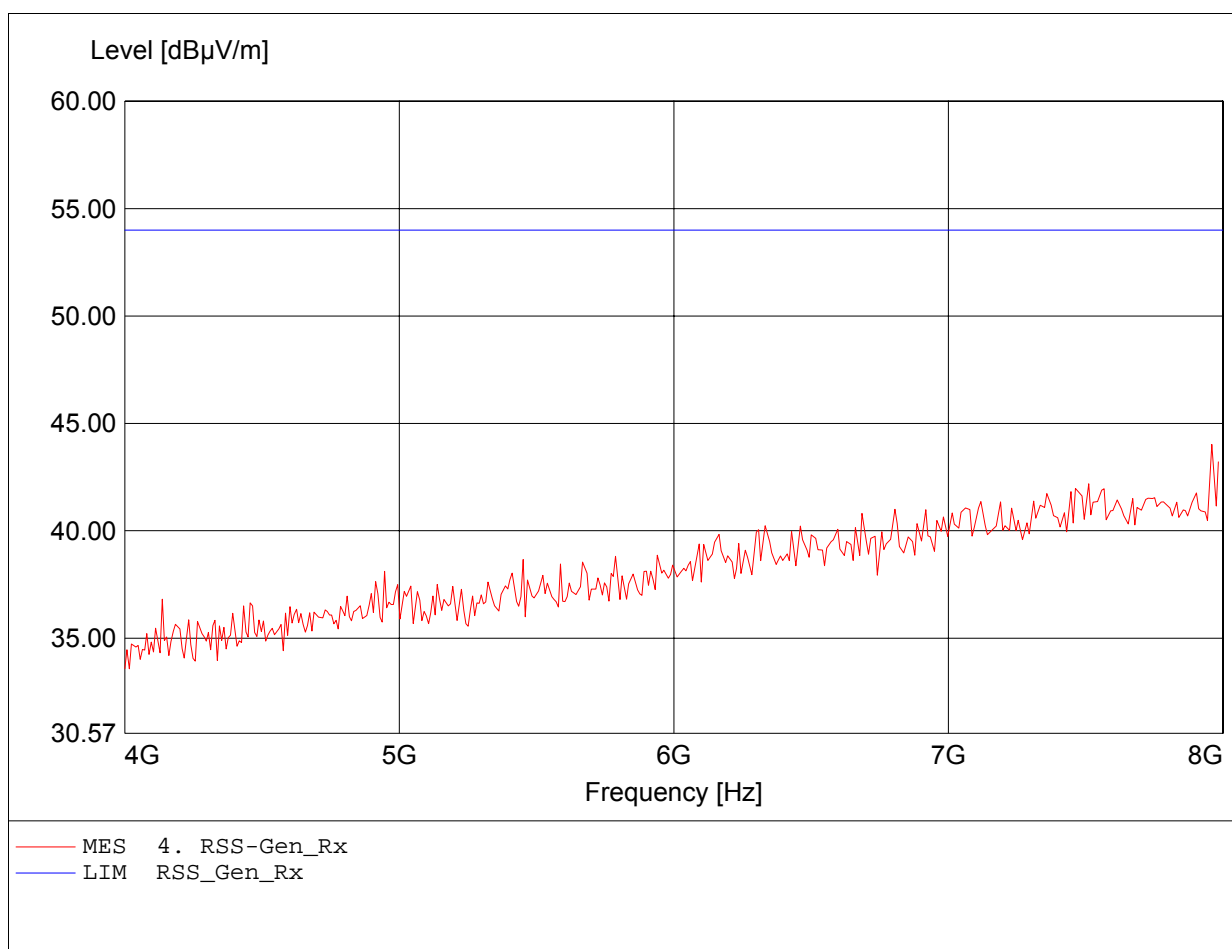
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:3.880GHz Emax:40.53dBµV/m RBW: 1 MHz



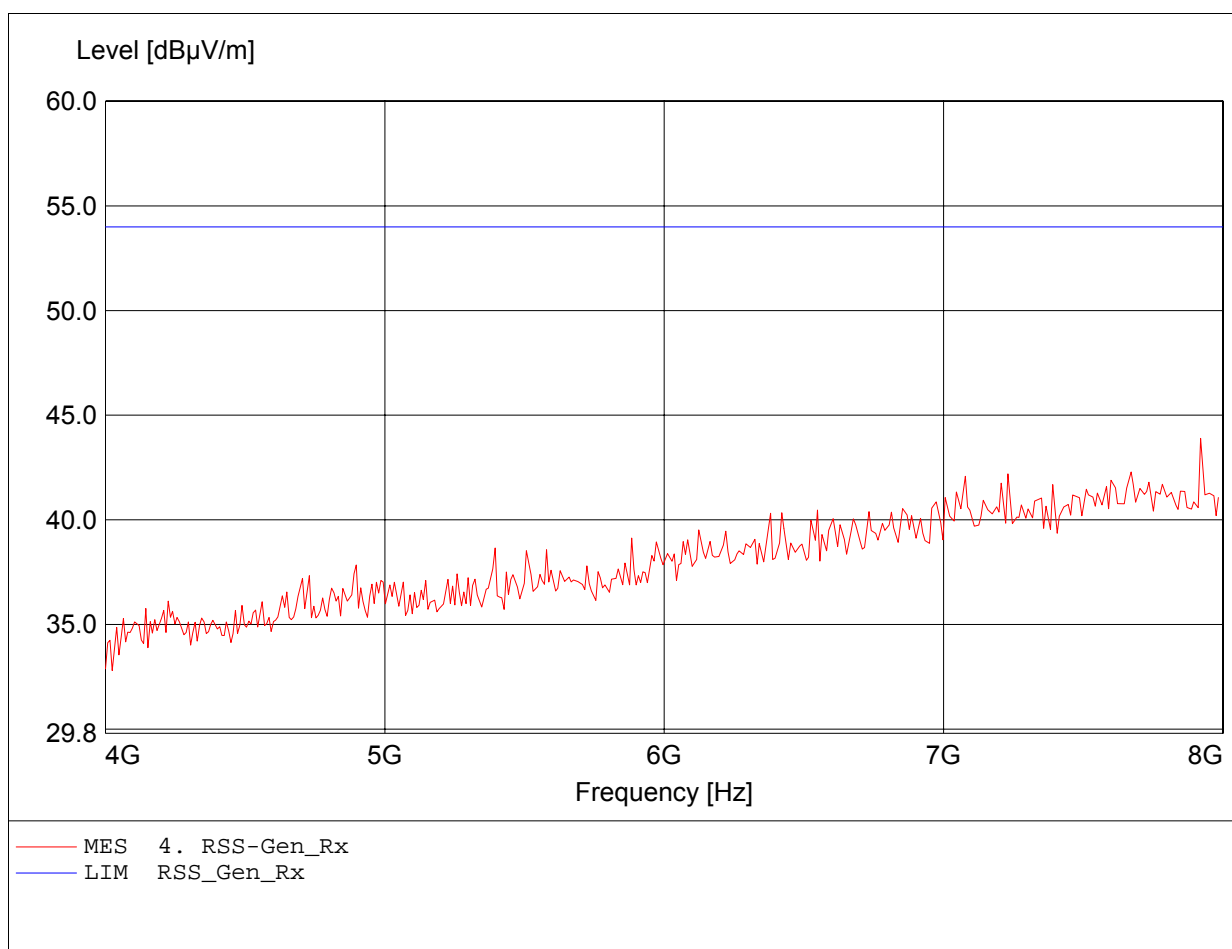
**Field Strength under normal conditions
Standards Industry Canada, RSS-GEN**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:7.960GHz Emax:44.02dBµV/m RBW: 1 MHz



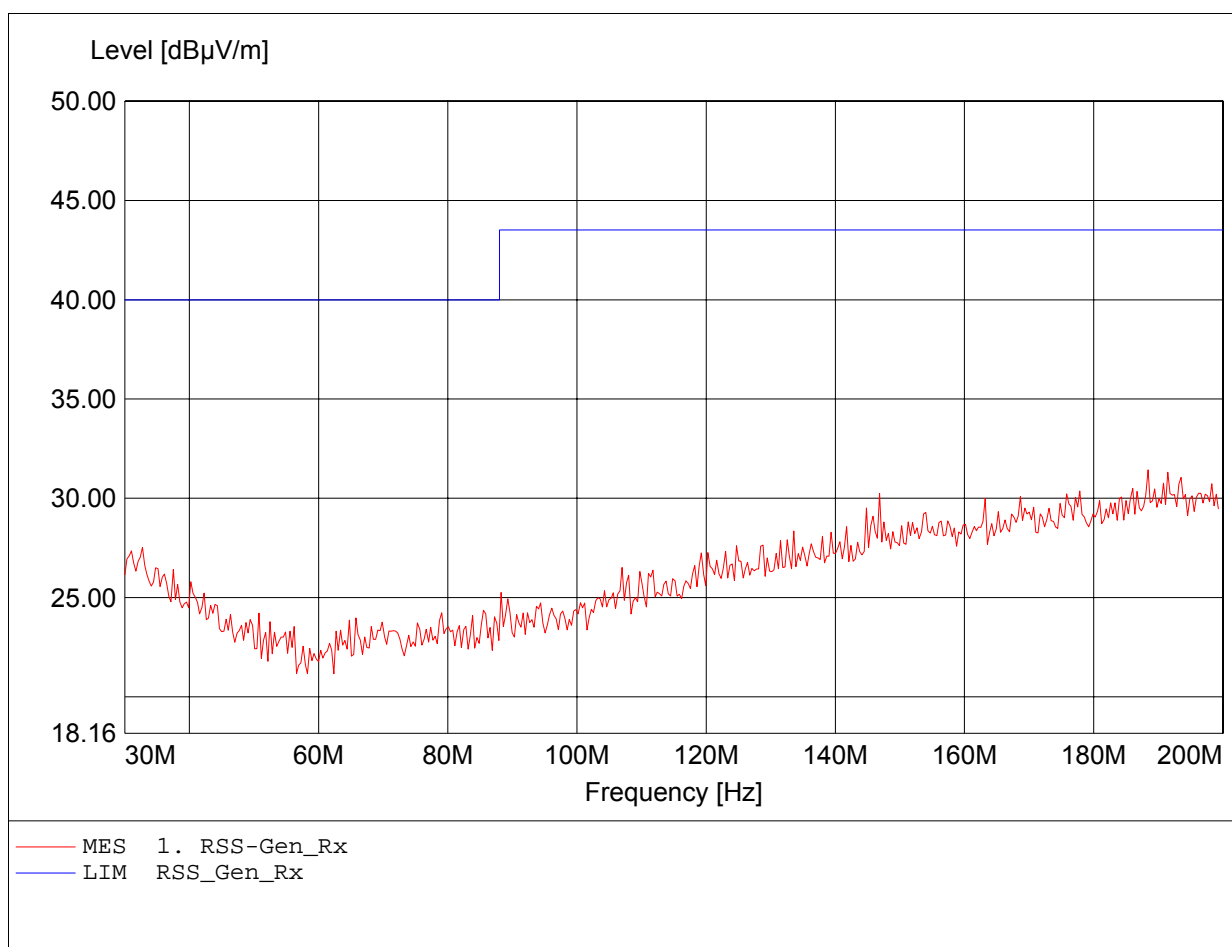
**Field Strength under normal conditions
Standards Industry Canada, RSS-GEN**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 4175 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:7.920GHz Emax:43.89dBµV/m RBW: 1 MHz



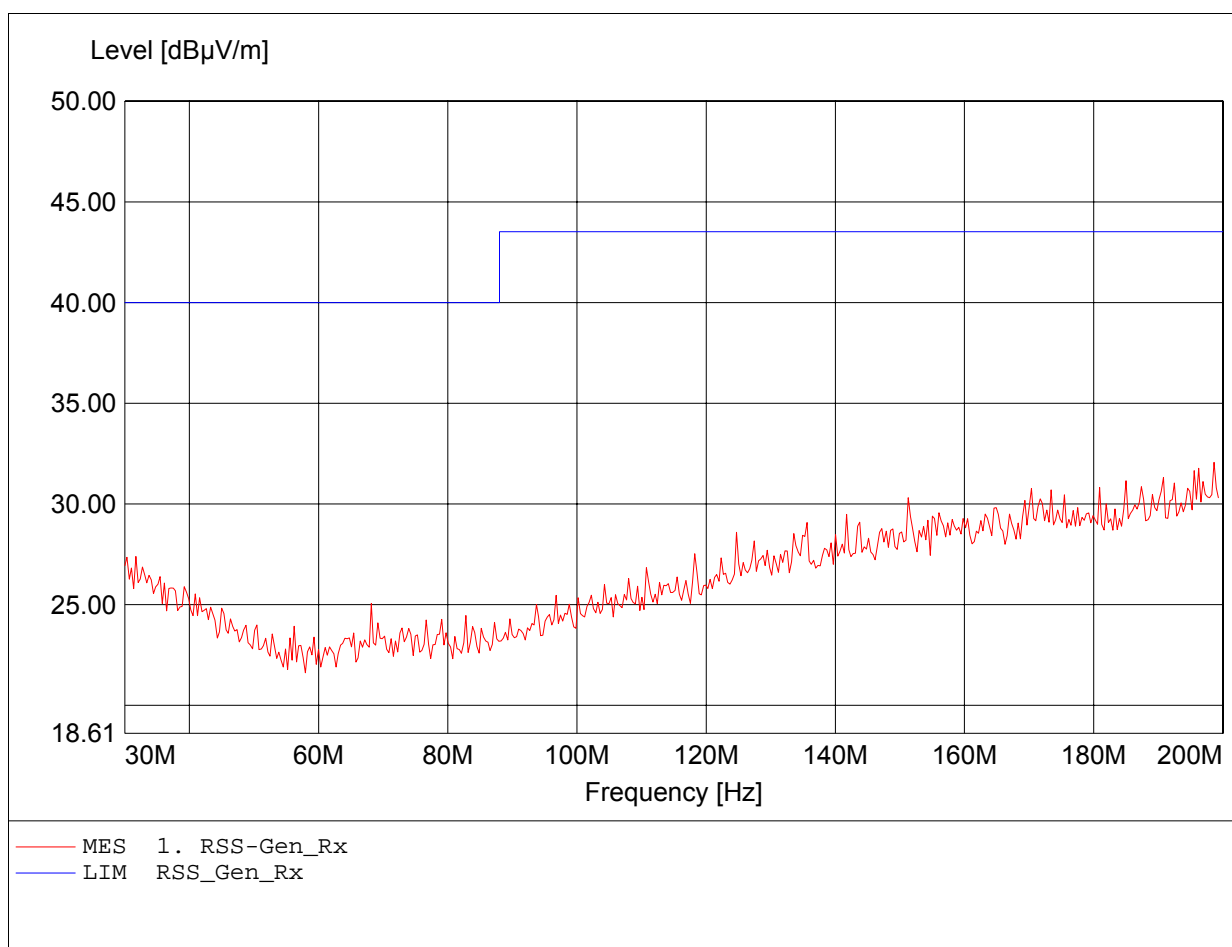
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:188.417MHz Emax:31.43dBµV/m RBW: 100 kHz



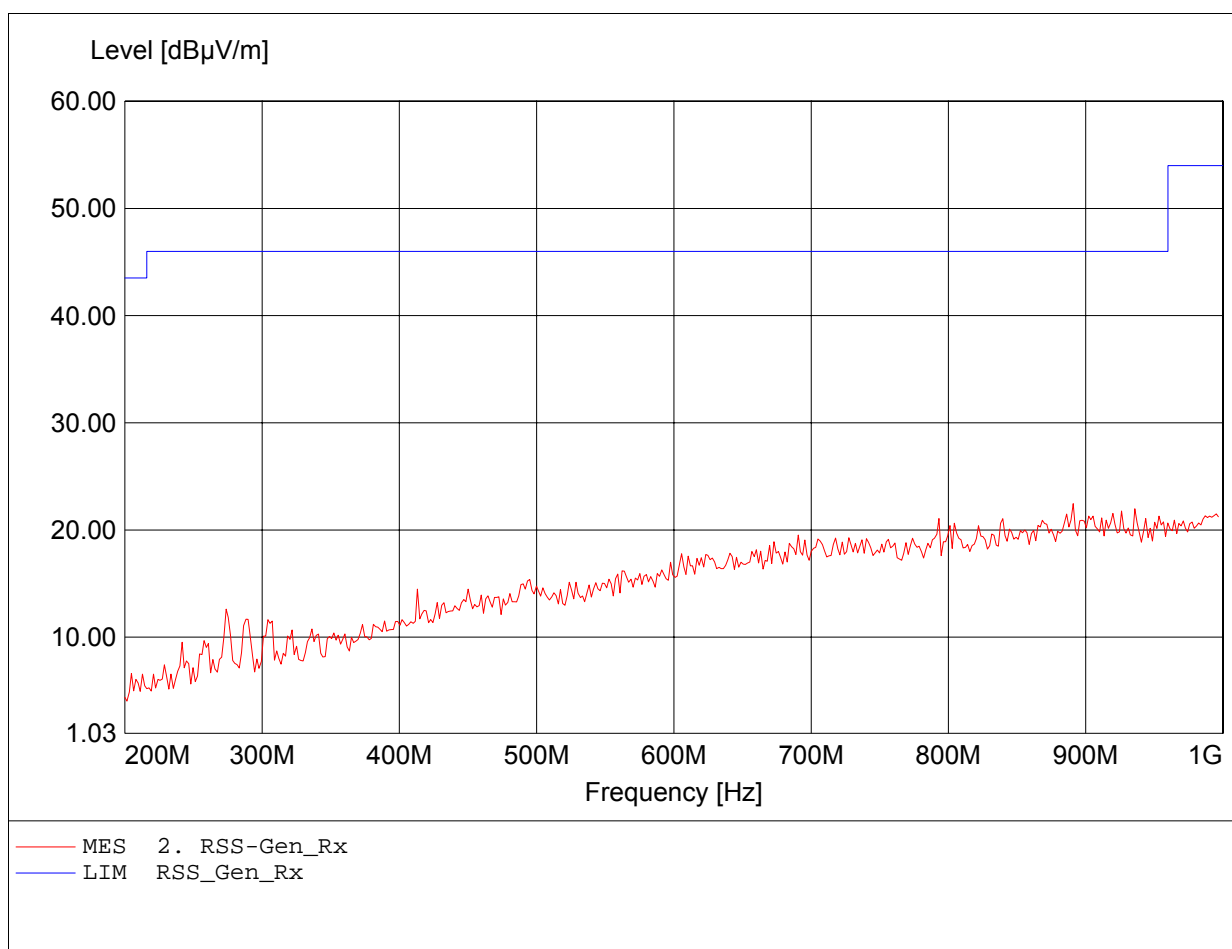
**Field Strength under normal conditions
Standards Industry Canada, RSS-GEN**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:198.637MHz Emax:32.07dBµV/m RBW: 100 kHz



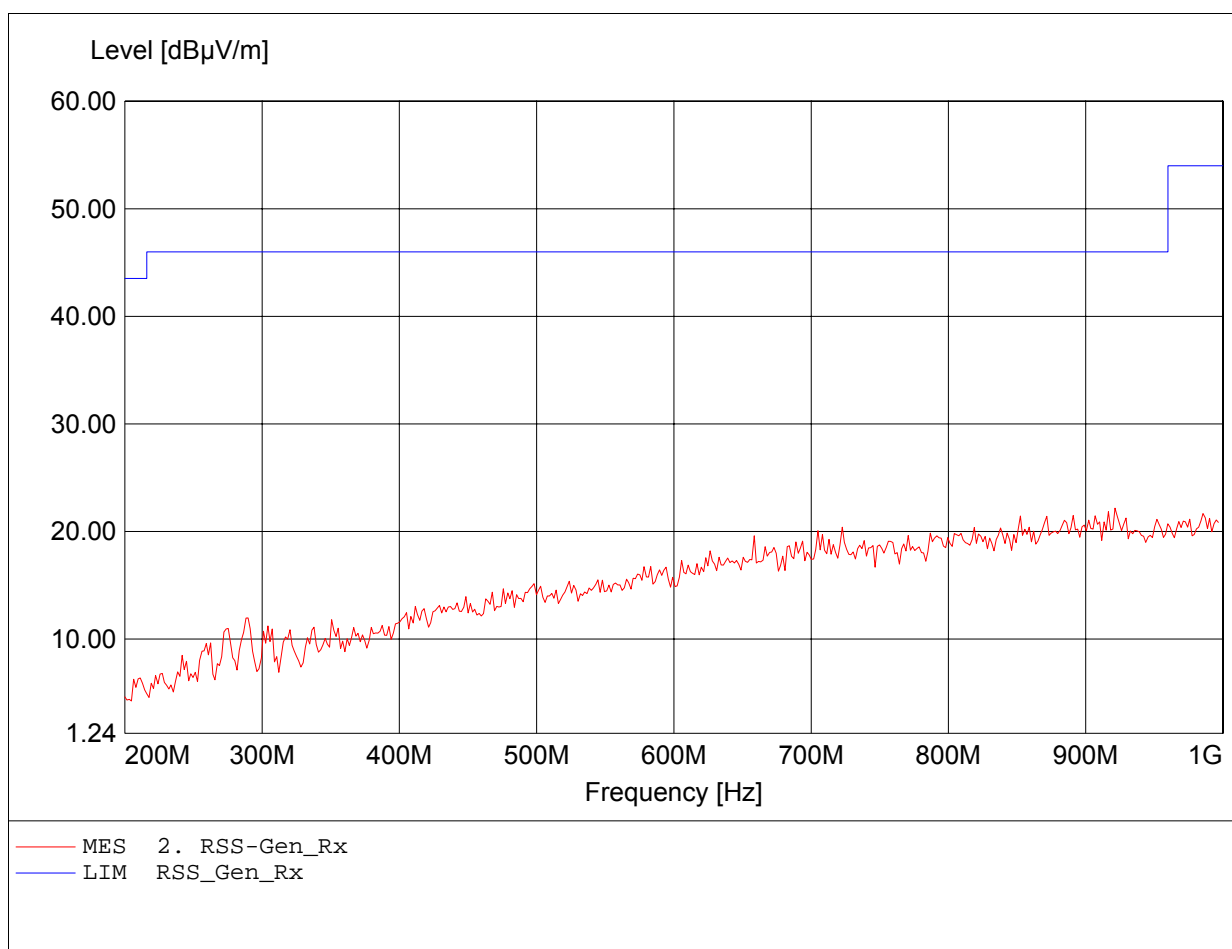
**Field Strength under normal conditions
Standards Industry Canada, RSS-GEN**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Comment 2: Freq:890.982MHz Emax:22.46dBµV/m RBW: 100 kHz



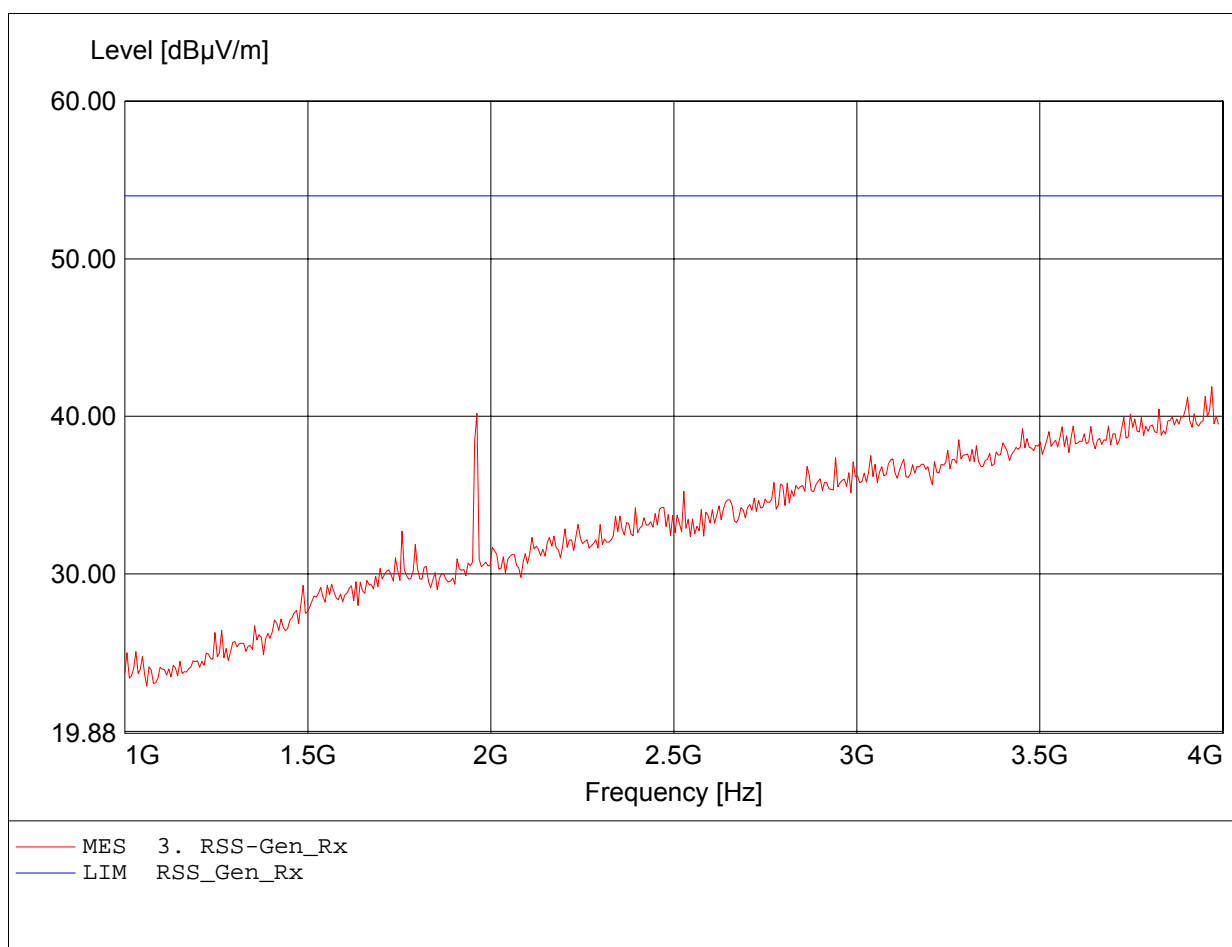
**Field Strength under normal conditions
Standards Industry Canada, RSS-GEN**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Comment 2: Freq:921.443MHz Emax:22.18dBµV/m RBW: 100 kHz



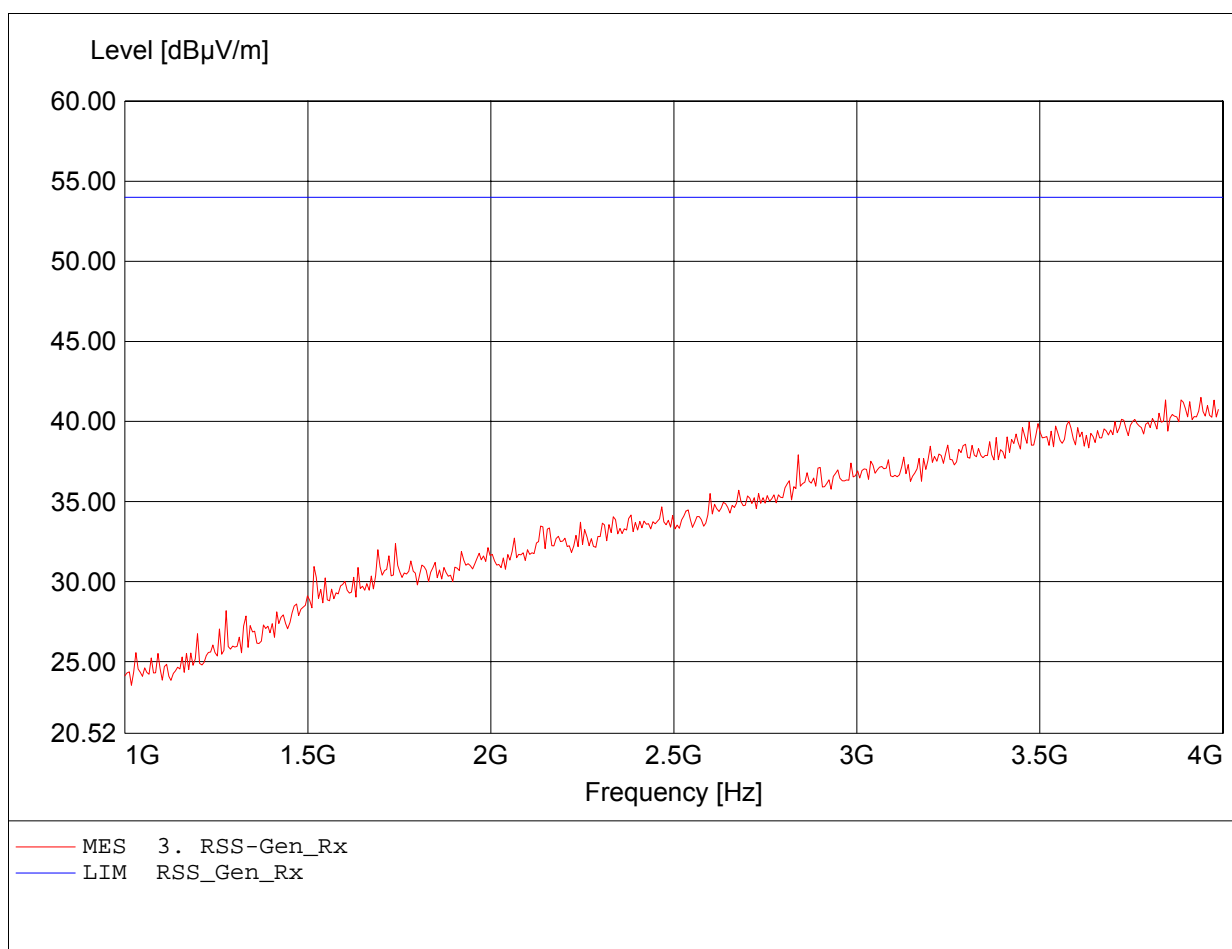
**Field Strength under normal conditions
Standards Industry Canada, RSS-GEN**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:3.970GHz Emax:41.88dBµV/m RBW: 1 MHz



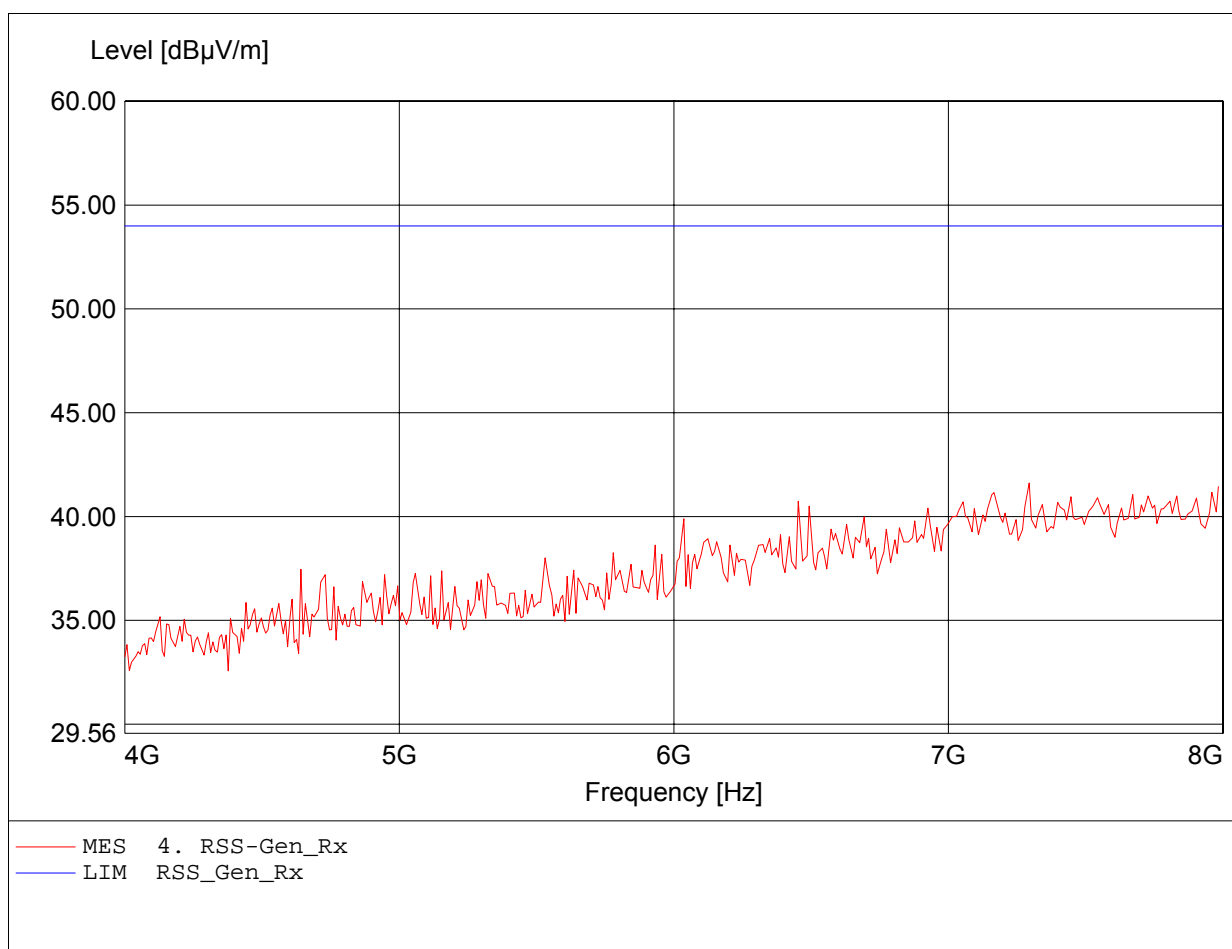
**Field Strength under normal conditions
Standards Industry Canada, RSS-GEN**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:3.940GHz Emax:41.51dBµV/m RBW: 1 MHz



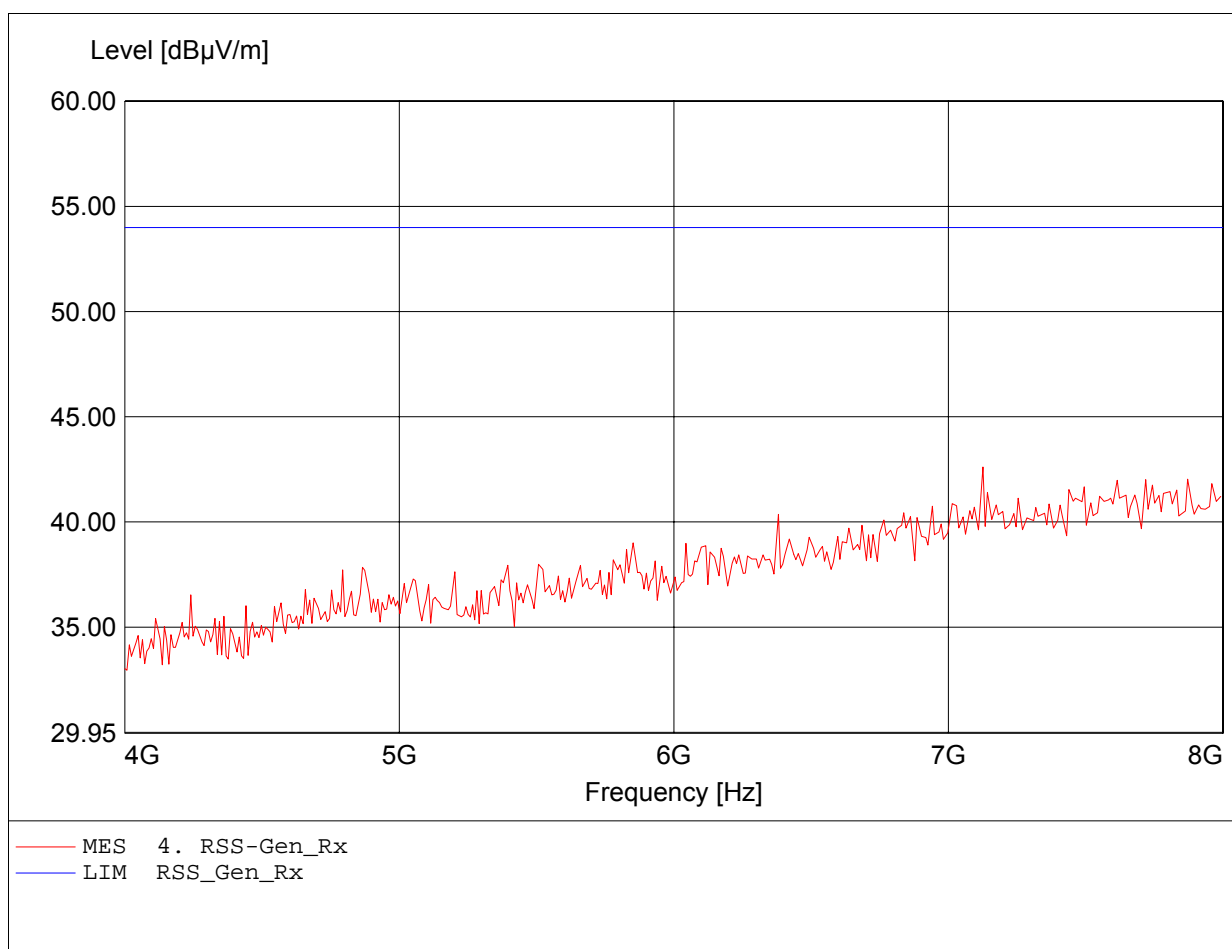
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / G0M20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:7.295GHz Emax:41.62dBµV/m RBW: 1 MHz



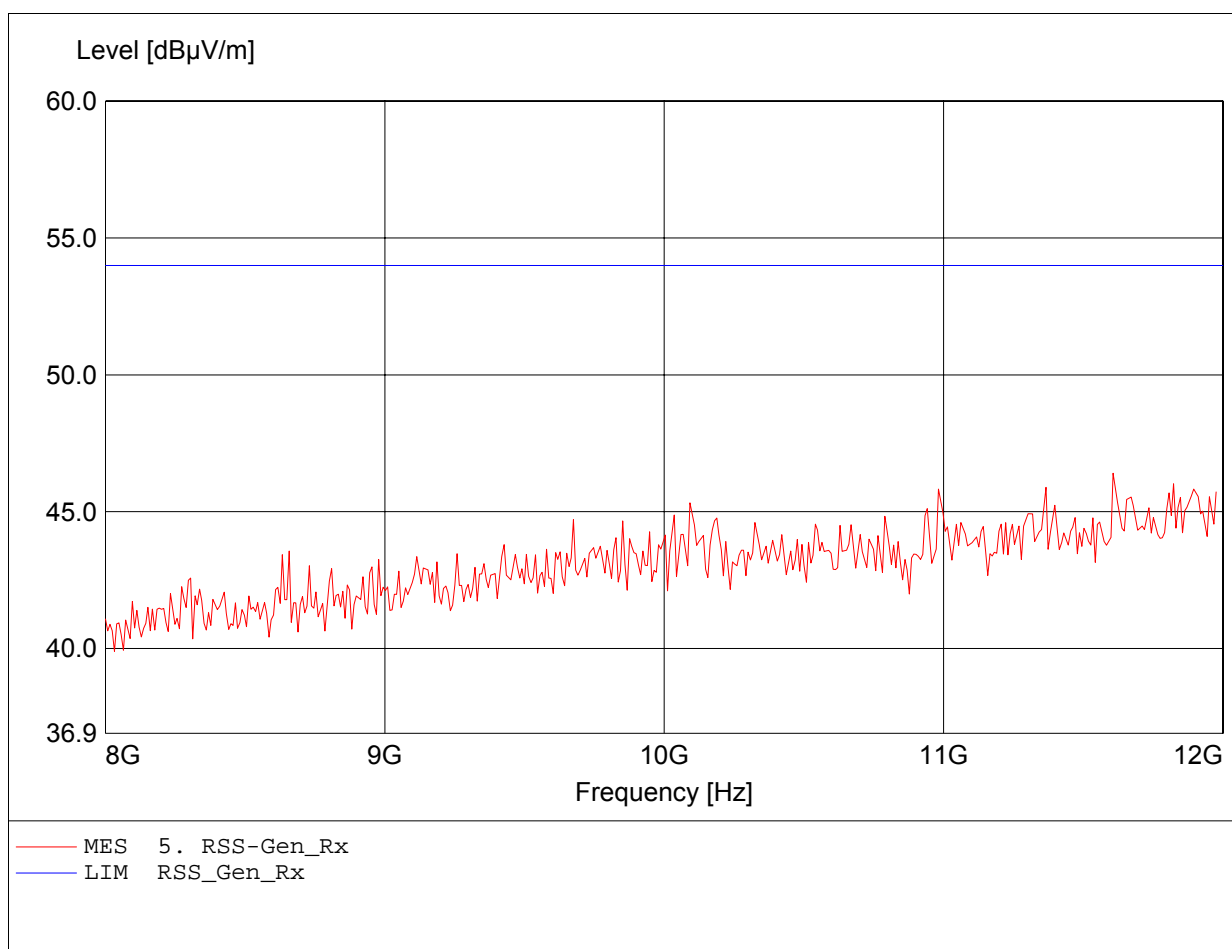
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:7.126GHz Emax:42.62dBµV/m RBW: 1 MHz



**Field Strength under normal conditions
Standards Industry Canada, RSS-GEN**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:11.607GHz Emax:46.41dBµV/m RBW: 1 MHz



**Field Strength under normal conditions
Standards Industry Canada, RSS-GEN**

Approval Holder: Option Wireless Germany GmbH
EUT: USB-Stick
Model: GI0322 / Ch. 9400 / GOM20806-1862
Test Site / Operator: Eurofins ETS Product Service GmbH / Mr. Pfeufer
Test Conditions: 23°C / V_USB: 5 V +/- 0.25 V
Test Specification: according to RSS-Gen Issue 1
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:11.872GHz Emax:47.88dBµV/m RBW: 1 MHz

