



TEST REPORT

Test report no.: 1-9400-25-01-12_TR1-R02



Testing laboratory

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Accredited Testing Laboratory:

The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2018-03) by the Deutsche Akkreditierungsstelle GmbH (DAkkS).

The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with the registration number:

D-PL-12047-01-00.

ISED Testing Laboratory Recognized Listing Number: DE0001

FCC designation number: DE0002

Applicant

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Manufacturer

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Test standard/s

FCC - Title 47 CFR Part 15 FCC - Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices

RSS - 247 Issue 3 Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item: Infrared Camera
Model name: FLIR-K1870
FCC ID: ZLV-FLIRK1870
ISED certification number: 5306A-FLIRK1870
Frequency: 2400 MHz to 2483.5 MHz
Technology tested: WLAN
Antenna: Integrated antenna
Power supply: 4.85 V to 5.25 V DC by battery
Temperature range: -20°C to +55°C

This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test report authorized:

Marco Bertolino
Supervisor Radio Services
Radio Labs

Test performed:

Andreas Kurzkurt
Testing Manager
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2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. cetecom advanced GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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This test report replaces the test report with the number 1-9400-25-01-12_TR1-R01 and dated 2025-04-10.

2.2 Application details

| | |
|------------------------------------|-------------------|
| Date of receipt of order: | 2025-03-13 |
| Date of receipt of test item: | 2025-04-01 |
| Start of test:* | 2025-04-02 |
| End of test:* | 2025-04-04 |
| Person(s) present during the test: | Mr. Göran Skedung |

*Date of each measurement, if not shown in the plot, can be requested. Dates are stored in the measurement software.

2.3 Test laboratories sub-contracted

None

3 Test standard/s, references and accreditations

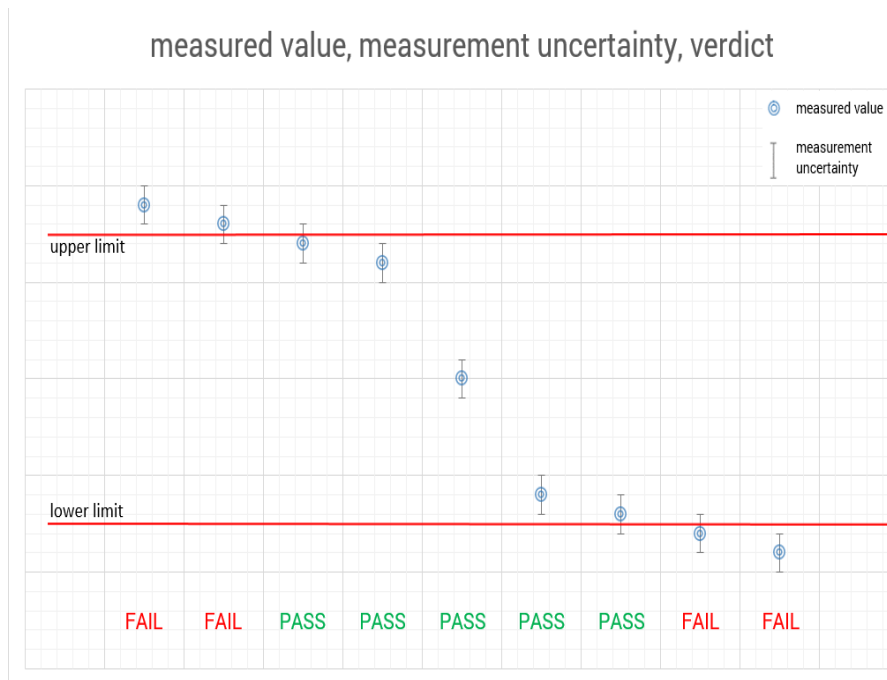
| Test standard | Date | Description |
|---|---------------|--|
| FCC - Title 47 CFR Part 15 | -/- | FCC - Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices |
| RSS - 247 Issue 3 | August 2023 | Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices |
| RSS - Gen Issue 5 incl. Amendment 1 & 2 | February 2021 | Spectrum Management and Telecommunications Radio Standards Specification - General Requirements for Compliance of Radio Apparatus |

| Guidance | Version | Description |
|------------------|---------|--|
| KDB 558074 D01 | v05r02 | GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES |
| ANSI C63.4a-2017 | -/- | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz |
| ANSI C63.10-2020 | -/- | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices |

4 Reporting statements of conformity – decision rule

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed in chapter 3.

The measurement uncertainty is mentioned in this test report, see chapter 9, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong."



5 Test environment

| | | | |
|---------------------------|---|-------------------------------------|--|
| Temperature | : | T_{nom} T_{max} T_{min} | +22 °C during room temperature tests Not tests under extreme conditions performed. Not tests under extreme conditions performed. |
| Relative humidity content | : | | 52 % |
| Barometric pressure | : | | 1016 hpa |
| Power supply | : | V_{nom} V_{max} V_{min} | 5.0 V DC by battery Not tests under extreme conditions performed. Not tests under extreme conditions performed. |

6 Test item

6.1 General description

| | | |
|----------------------------|---|---|
| Kind of test item | : | Infrared Camera |
| Model name | : | FLIR-K1870 |
| Series | : | FLIR K75, FLIR K85, FLIR K95 |
| HMN | : | -/- |
| PMN | : | FLIR K75; FLIR K85; FLIR K85-N |
| HVIN | : | FLIR-K1870 |
| FVIN | : | -/- |
| S/N serial number | : | Radiated unit: 18700026 Conducted unit: 18700025 |
| Hardware status | : | T300780-A |
| Software status | : | 3.4.0.14 |
| Firmware status | : | 8.9.0.0.89 |
| Frequency band | : | 2400 MHz to 2483.5 MHz |
| Type of radio transmission | : | DSSS, OFDM |
| Use of frequency spectrum | : | |
| Type of modulation | : | CCK, (D)BPSK, (D)QPSK, 16 – QAM, 64 – QAM |
| Number of channels | : | 11 |
| Antenna | : | Integrated antenna |
| Power supply | : | 4.85 V to 5.25 V DC by battery |
| Temperature range | : | -20°C to +55°C |

6.2 Additional information

The content of the following annexes is defined in the QA. It may be that not all of the listed annexes are necessary for this report, thus some values in between may be missing.

Test setup and EUT photos are included in test report:

1-9400-25-01-01_TR1-A101-R01
1-9400-25-01-01_TR1-A102-R01
1-9400-25-01-01_TR1-A104-R01

7 Description of the test setup

Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, RF generating and signaling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Lab/Item).

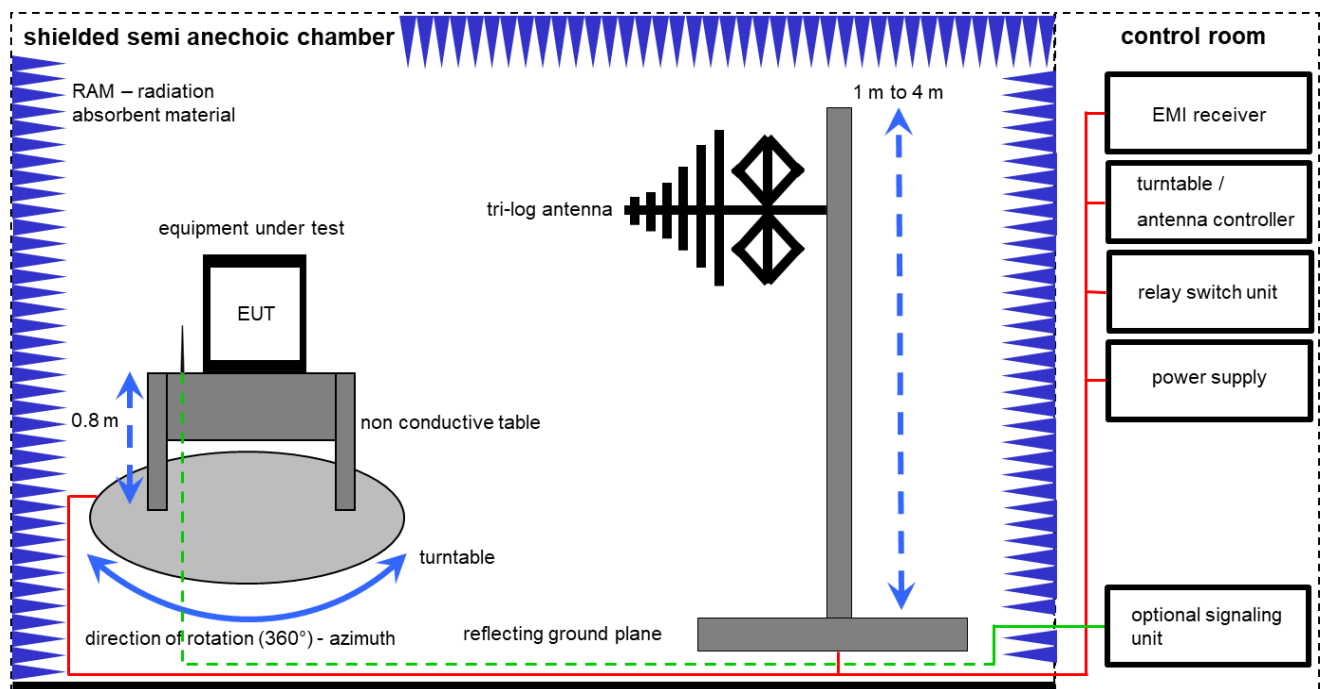
Each block diagram listed can contain several test setup configurations. All devices belonging to a test setup are identified with the same letter syntax. For example: Column Setup and all devices with an A.

Agenda: Kind of Calibration

| | | | |
|--------|--|-----|--|
| k/cal | calibration / calibrated | EK | limited calibration |
| Ne/cnn | not required (k, ev, izw, zw not required) | zw | cyclical maintenance (external cyclical maintenance) |
| Ev/chk | periodic self verification | izw | internal cyclical maintenance |
| Ve | long-term stability recognized | g | blocked for accredited testing |
| vlk! | Attention: extended calibration interval | | |
| NK! | Attention: not calibrated | *) | next calibration ordered / currently in progress |
| cpu | check prior usage | | |

7.1 Shielded semi anechoic chamber

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 30 MHz to 1 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber. The receiving antennas are conform to specifications ANSI C63. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received. The wanted and unwanted emissions are received by spectrum analyzers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63.



Measurement distance: tri-log antenna 10 meter; EMC32 software version: 10.59.00

FS = UR + CL + AF

(FS-field strength; UR-voltage at the receiver; CL-loss of the cable; AF-antenna factor)

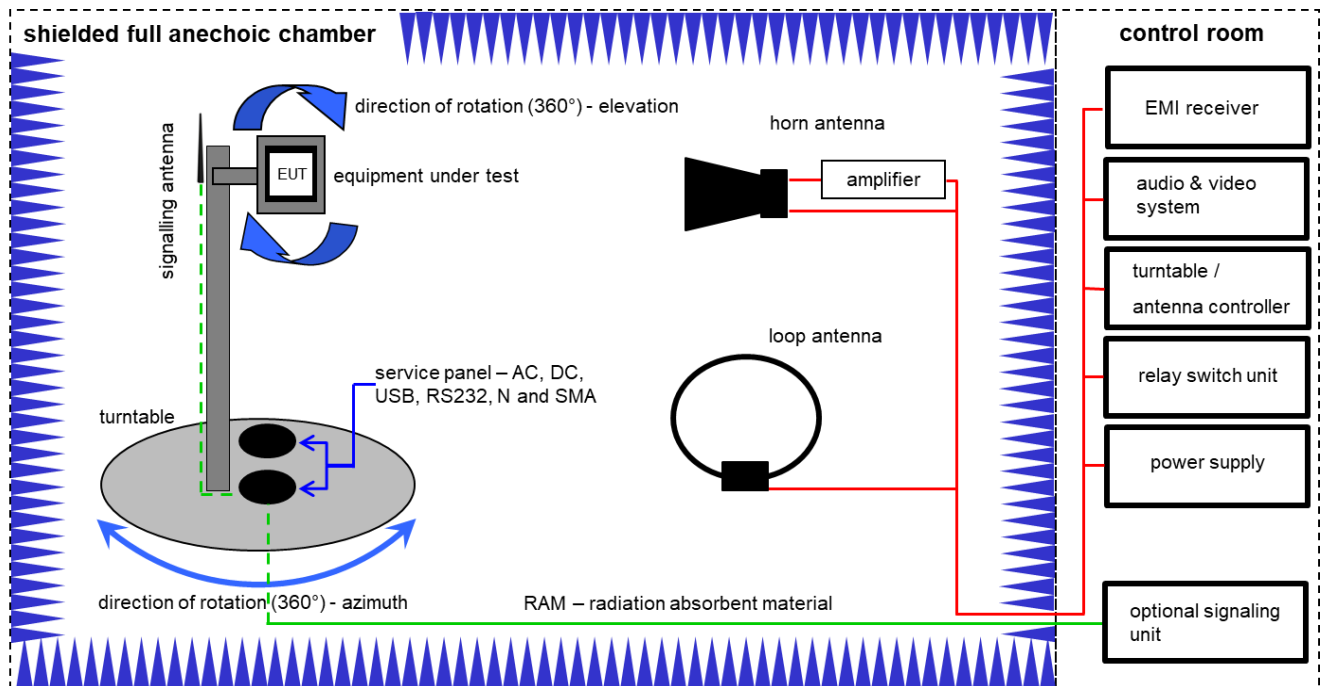
Example calculation:

FS [dBμV/m] = 12.35 [dBμV/m] + 1.90 [dB] + 16.80 [dB/m] = 31.05 [dBμV/m] (35.69 μV/m)

Equipment table:

| No. | Setup | Equipment | Type | Manufacturer | Serial No. | INV. No. | Kind of Calibration | Last Calibration | Next Calibration |
|-----|-------|--------------------------|-----------------------------------|--|------------|----------|---------------------|------------------|------------------|
| 1 | A | Switch-Unit | Switch-Unit 3488A | Hewlett Packard | 2719A14505 | 50160 | cpu | -/- | -/- |
| 2 | A | Power Supply | Power Supply 6032A | Hewlett Packard | 2920A04466 | 50161 | cnn | -/- | -/- |
| 3 | A | Antenna Tower | Antenna Tower 2175 | ETS-Lindgren GmbH / Taufkirchen | 64762 | 50279 | cnn | -/- | -/- |
| 4 | A | Positioning Controller | Positioning Controller 2090 | ETS-Lindgren GmbH / Taufkirchen | 64672 | 50280 | cnn | -/- | -/- |
| 5 | A | Spectrum Analyzer | Spectrum Analyzer FSU26 | Rohde & Schwarz Messgerätebau GmbH / Memmingen | 200809 | 50308 | cal | 04.12.2024 | 04.12.2025 |
| 6 | A | TRILOG Broadband Antenna | TRILOG Broadband Antenna VULB9163 | Schwarzbeck Mess-Elektronik OHG / Schönau | 1029 | 50403 | cal | 25.09.2023 | 30.09.2025 |
| 7 | A | EMI Test Receiver | EMI Test Receiver ESR3 | Rohde & Schwarz Messgerätebau GmbH / Memmingen | 102587 | 50417 | cal | 05.12.2024 | 05.12.2025 |

7.2 Shielded fully anechoic chamber



Measurement distance: horn antenna 3 meter; loop antenna 3 meter

FS = UR + CA + AF

(FS-field strength; UR-voltage at the receiver; CA-loss of the signal path; AF-antenna factor)

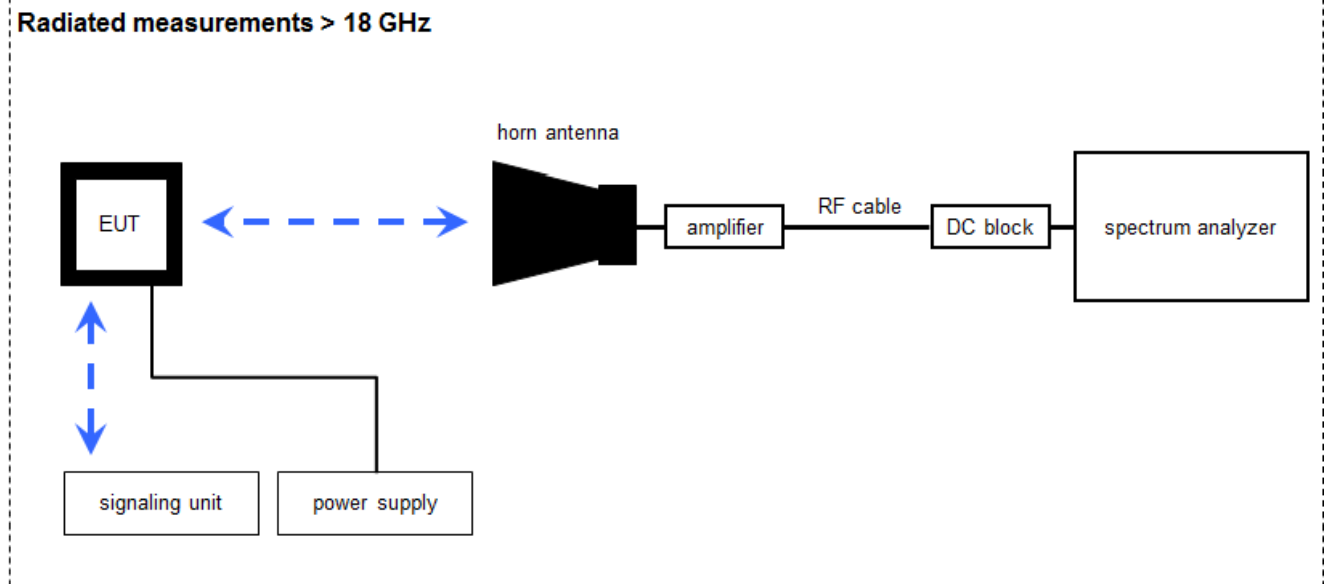
Example calculation:

FS [dB μ V/m] = 40.0 [dB μ V/m] + (-35.8) [dB] + 32.9 [dB/m] = 37.1 [dB μ V/m] (71.61 μ V/m)

Equipment table:

| No. | Setup | Equipment | Type | Manufacturer | Serial No. | INV. No. | Kind of Calibration | Last Calibration | Next Calibration |
|-----|---------|--------------------------------------|--|---|------------|----------|---------------------|------------------|------------------|
| 1 | A, B, C | EMI Test Receiver | EMI Test Receiver ESR26 | Rohde & Schwarz Messgerätebau GmbH / Memmingen | 101376 | 40301 | cal | 06.12.2024 | 06.12.2025 |
| 2 | B | Highpass Filter | Highpass Filter WHK1.1/15G-10SS | Wainwright Instruments GmbH / Andechs | 37 | 40362 | cnn | -/- | -/- |
| 3 | B | Highpass Filter | Highpass Filter WHKX7.0/18G-8SS | Wainwright Instruments GmbH / Andechs | 18 | 40364 | cpu | -/- | -/- |
| 4 | B | Band Reject Filter | Band Reject Filter WRCG2400/2483-2375/2505-50/10SS | Wainwright Instruments GmbH / Andechs | 26 | 40367 | cpu | -/- | -/- |
| 5 | A, B | Broadband Amplifier 0.5-18 GHz | Broadband Amplifier 0.5-18 GHz CBLU5184540 | MEC Import: CERNEX | 22050 | 40374 | cpu | -/- | -/- |
| 6 | A, B, C | 4U RF Switch Platform | 4U RF Switch Platform L4491A | Agilent Technologies Deutschland GmbH / Böblingen | MY50000032 | 40376 | cnn | -/- | -/- |
| 7 | A, B, C | NEXIO EMV-Software | NEXIO EMV-Software BAT EMC V2022.0.32.0 | MEC Import: Nexio | -/- | 40383 | cnn | -/- | -/- |
| 8 | A, B, C | Anechoic chamber | Anechoic chamber | MEC Import: TDK | -/- | 40385 | cnn | -/- | -/- |
| 9 | C | Active Loop Antenna | Active Loop Antenna 6502 | EMCO Elektronik GmbH / Gilching | 2210 | 50044 | cal | 02.08.2023 | 02.08.2025 |
| 10 | A, B | Double-Ridged Waveguide Horn Antenna | Double-Ridged Waveguide Horn Antenna 3115 | EMCO Elektronik GmbH / Gilching | 8812-3089 | 40344 | cal | 09.07.2024 | 09.07.2026 |

7.3 Radiated measurements > 18 GHz



Measurement distance: horn antenna 50 cm

FS = UR + CA + AF

(FS-field strength; UR-voltage at the receiver; CA-loss signal path & distance correction; AF-antenna factor)

Example calculation:

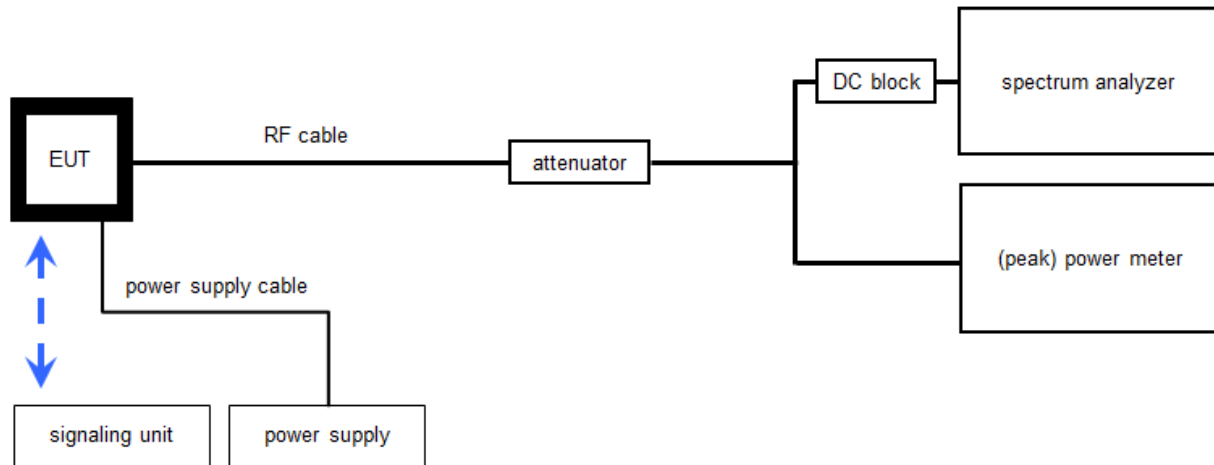
FS [dBμV/m] = 40.0 [dBμV/m] + (-60.1) [dB] + 36.74 [dB/m] = 16.64 [dBμV/m] (6.79 μV/m)

Equipment table:

| No. | Setup | Equipment | Type | Manufacturer | Serial No. | INV. No. | Kind of Calibration | Last Calibration | Next Calibration |
|-----|-------|--|---|--|------------------|----------|---------------------|------------------|------------------|
| 1 | A | Microwave System Amplifier, 0.5-26.5 GHz | Microwave System Amplifier, 0.5-26.5 GHz 83017A | Hewlett Packard | 00419 | 40014 | cpu | -/- | -/- |
| 2 | A | Std. Gain Horn Antenna 18.0-26.5 GHz | Std. Gain Horn Antenna 18.0-26.5 GHz 638 | Narda Microwave | 8205 | 40085 | cal | 24.01.2024 | 31.01.2026 |
| 3 | A | Signal analyzer | Signal analyzer FSV40 | Rohde & Schwarz Messgerätebau GmbH / Memmingen | 101042 | 40292 | cal | 09.12.2024 | 09.12.2025 |
| 4 | A | RF-Cable | RF-Cable ST18/SMAM/SMAM /72 | Huber & Suhner GmbH / Unterhaching | Batch no. 699714 | 40389 | cpu | -/- | -/- |
| 5 | A | DC-Blocker 0.1-40 GHz | DC-Blocker 0.1-40 GHz 8141A | MEC Import: Inmet | -/- | 40390 | cpu | -/- | -/- |

7.4 Conducted measurements with peak power meter & spectrum analyzer

Conducted measurements normal conditions



WLAN tester version: 1.1.13; LabView2015

OP = AV + CA

(OP-output power; AV-analyzer value; CA-loss signal path)

Example calculation:

OP [dBm] = 6.0 [dBm] + 11.7 [dB] = 17.7 [dBm] (58.88 mW)

Equipment table:

| No. | Setup | Equipment | Type | Manufacturer | Serial No. | INV. No. | Kind of Calibration | Last Calibration | Next Calibration |
|-----|-------|---|---|--|------------------|----------|---------------------|------------------|------------------|
| 1 | A | Relais Matrix | USM Switch Matrix | cetecom advanced GmbH / Saarbrücken | C001 | 40340 | cnn | -/- | -/- |
| 2 | A | RF-Cable | RF-Cable ST18/SMAM/SMAM /72 | Huber & Suhner GmbH / Unterhaching | Batch no. 699714 | 40389 | cpu | -/- | -/- |
| 3 | A | DC-Blocker 0.1-40 GHz | DC-Blocker 0.1-40 GHz 8141A | MEC Import: Inmet | -/- | 40390 | cpu | -/- | -/- |
| 4 | A | USB Wideband Power Sensor (50MHz - 18GHz) | USB Wideband Power Sensor (50MHz - 18GHz) U2021XA | Keysight Technologies Deutschland GmbH / Böblingen | MY591900010 | 40317 | cal | 05.12.2024 | 05.12.2025 |

8 Sequence of testing

8.1 Sequence of testing radiated spurious 9 kHz to 30 MHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer.
- If the EUT is a tabletop system, it is placed on a table with 0.8 m height.
- If the EUT is a floor standing device, it is placed directly on the turn table.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C 63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 3 m (see ANSI C 63.4) – see test details.
- EUT is set into operation.

Premeasurement*

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1 m.
- At each turntable position the analyzer sweeps with positive-peak detector to find the maximum of all emissions.

Final measurement

- Identified emissions during the pre-measurement are maximized by the software by rotating the turntable from 0° to 360°.
- Loop antenna is rotated about its vertical axis for maximum response at each azimuth about the EUT. (For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT)
- The final measurement is done in the position (turntable and elevation) causing the highest emissions with quasi-peak (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. A plot with the graph of the premeasurement and the limit is stored.

*)Note: The sequence will be repeated three times with different EUT orientations.

8.2 Sequence of testing radiated spurious 30 MHz to 1 GHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C 63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 10 m or 3 m (see ANSI C 63.4) – see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 m to 3 m.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement

- The final measurement is performed for at least six highest peaks according to the requirements of the ANSI C63.4.
- Based on antenna and turntable positions at which the peak values are measured the software maximize the peaks by changing turntable position $\pm 45^\circ$ and antenna height between 1 and 4 m.
- The final measurement is done with quasi-peak detector (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit are recorded. A plot with the graph of the premeasurement with marked maximum final results and the limit is stored.

8.3 Sequence of testing radiated spurious 1 GHz to 18 GHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer.
- If the EUT is a tabletop system, a 2-axis positioner with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed directly on the turn table.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C 63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 3 m (see ANSI C 63.4) – see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height is 1.5 m.
- At each turntable position and antenna polarization the analyzer sweeps with positive peak detector to find the maximum of all emissions.

Final measurement

- The final measurement is performed for at least six highest peaks according to the requirements of the ANSI C63.4.
- Based on antenna and turntable positions at which the peak values are measured the software maximizes the peaks by rotating the turntable from 0° to 360°. This measurement is repeated for different EUT-table positions (0° to 150° in 30°-steps) and for both antenna polarizations.
- The final measurement is done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and RMS detector (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit are recorded. A plot with the graph of the premeasurement with marked maximum final results and the limit is stored.

8.4 Sequence of testing radiated spurious above 18 GHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C 63.4.
- The AC power port of the EUT (if available) is connected to a power outlet.
- The measurement distance is as appropriate (e.g. 0.5 m).
- The EUT is set into operation.

Premeasurement

- The test antenna is handheld and moved carefully over the EUT to cover the EUT's whole sphere and different polarizations of the antenna.

Final measurement

- The final measurement is performed at the position and antenna orientation causing the highest emissions with Peak and RMS detector (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit are recorded. A plot with the graph of the premeasurement and the limit is stored.

9 Measurement uncertainty

| Measurement uncertainty | | |
|--|---|---------------|
| Test case | Uncertainty | |
| Antenna gain | ± 3 dB | |
| Power spectral density | ± 1.56 dB | |
| DTS bandwidth | ± 100 kHz (depends on the used RBW) | |
| Occupied bandwidth | ± 100 kHz (depends on the used RBW) | |
| Maximum output power conducted | ± 1.56 dB | |
| Detailed spurious emissions @ the band edge - conducted | ± 1.56 dB | |
| Band edge compliance radiated | ± 3 dB | |
| Spurious emissions conducted | > 3.6 GHz | ± 1.56 dB |
| | > 7 GHz | ± 1.56 dB |
| | > 18 GHz | ± 2.31 dB |
| | ≥ 40 GHz | ± 2.97 dB |
| Spurious emissions radiated below 30 MHz | ± 3 dB | |
| Spurious emissions radiated 30 MHz to 1 GHz | ± 4.1 dB | |
| Spurious emissions radiated 1 GHz to 12.75 GHz | ± 3.7 dB | |
| Spurious emissions radiated above 12.75 GHz | ± 4.5 dB | |
| Spurious emissions conducted below 30 MHz (AC conducted) | ± 2.6 dB | |

10 Summary of measurement results

| | |
|-------------------------------------|--|
| <input type="checkbox"/> | No deviations from the technical specifications were ascertained |
| <input type="checkbox"/> | There were deviations from the technical specifications ascertained |
| <input checked="" type="checkbox"/> | This test report is only a partial test report. The content and verdict of the performed test cases are listed below. |

| TC Identifier | Description | Verdict | Date | Remark |
|---------------|-----------------------------------|------------|------------|----------------------------------|
| RF-Testing | CFR Part 15 RSS - 247, Issue 3 | See table! | 2025-06-10 | Tests according customer demand. |

| Test specification clause | Test case | Guideline | Temperature & voltage conditions | C | NC | NA | NP | Remark |
|--|---|-----------------------------------|----------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|----------|
| §15.247(b)(4) RSS - 247 / 5.4 (f)(ii) | Antenna gain | -/- | Nominal | -/- | | | | Declared |
| §15.35 | Duty cycle | -/- | Nominal | -/- | | | | -/- |
| §15.247(e) RSS - 247 / 5.2 (b) | Power spectral density | KDB 558074 DTS clause: 8.4 | Nominal | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | -/- |
| §15.247(a)(2) RSS - 247 / 5.2 (a) | DTS bandwidth | KDB 558074 DTS clause: 8.2 | Nominal | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | -/- |
| RSS Gen clause 4.6.1 | Occupied bandwidth | -/- | Nominal | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | -/- |
| §15.247(b)(3) RSS - 247 / 5.4 (d) | Maximum output power | KDB 558074 DTS clause: 8.3.1.3 | Nominal | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | -/- |
| §15.247(d) RSS - 247 / 5.5 | Detailed spurious emissions @ the band edge – cond. | -/- | Nominal | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | -/- |
| §15.205 RSS - 247 / 5.5 RSS - Gen | Band edge compliance cond. or rad. | KDB 558074 DTS clause: 8.7.3 | Nominal | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | -/- |
| §15.247(d) RSS - 247 / 5.5 | TX spurious emissions cond. | KDB 558074 DTS clause: 8.5 | Nominal | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | -/- |
| §15.209(a) RSS-Gen | TX spurious emissions rad. below 30 MHz | -/- | Nominal | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | -/- |
| §15.247(d) RSS - 247 / 5.5 RSS-Gen | TX spurious emissions rad. 30 MHz to 1 GHz | -/- | Nominal | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | -/- |
| §15.247(d) RSS - 247 / 5.5 RSS-Gen | TX spurious emissions rad. above 1 GHz | -/- | Nominal | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | -/- |
| §15.107(a) §15.207 | Conducted emissions < 30 MHz | -/- | Nominal | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | -/- |

Notes:

| | | | | | | | |
|----------|-----------|-----------|---------------|-----------|----------------|-----------|---------------|
| C | Compliant | NC | Not compliant | NA | Not applicable | NP | Not performed |
|----------|-----------|-----------|---------------|-----------|----------------|-----------|---------------|

11 Additional information and comments

Reference documents: Bluetooth® Core Specification 5.3
3-3-TR-587 977-01 Flir K1340- Antenna characterization_A

Special test descriptions: Power settings:

| Channel | 1 / 6 / 11 |
|----------------------|------------|
| DSSS / b – mode | Default |
| OFDM / g – mode | Default |
| OFDM / n HT20 – mode | Default |

Configuration descriptions: None

EUT selection:

☐ Only one device available

☒ Devices selected by the customer

☐ Devices selected by the laboratory (Randomly)

Provided channels:

Channels with 20 MHz channel bandwidth:

| channel number & center frequency | | | | | | | | | | | | | |
|-----------------------------------|-------------|------|------|------|------|-------------|------|------|------|------|-------------|------|------|
| channel | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| f _c / MHz | 2412 | 2417 | 2422 | 2427 | 2432 | 2437 | 2442 | 2447 | 2452 | 2457 | 2462 | 2467 | 2472 |

Note: The channels used for the tests are marked in bold in the list.

12 Additional EUT parameter

- Test mode:
- ☐ No test mode available
lperf was used to ping another device with the largest support packet size
 - ☒ Test mode available
Special software is used.
EUT is transmitting pseudo random data by itself
- Modulation types:
- ☒ Wide Band Modulation (None Hopping – e.g. DSSS, OFDM)
 - ☐ Frequency Hopping Spread Spectrum (FHSS)
- Antennas and transmit operating modes:
- ☒ Operating mode 1 (single antenna)
 - *Equipment with 1 antenna,*
 - *Equipment with 2 diversity antennas operating in switched diversity mode by which at any moment in time only 1 antenna is used,*
 - *Smart antenna system with 2 or more transmit/receive chains, but operating in a mode where only 1 transmit/receive chain is used)*
 - ☐ Operating mode 2 (multiple antennas, no beamforming)
 - *Equipment operating in this mode contains a smart antenna system using two or more transmit/receive chains simultaneously but without beamforming.*
 - ☐ Operating mode 3 (multiple antennas, with beamforming)
 - *Equipment operating in this mode contains a smart antenna system using two or more transmit/receive chains simultaneously with beamforming.
In addition to the antenna assembly gain (G), the beamforming gain (Y) may have to be taken into account when performing the measurements.*

13 Measurement results

13.1 Antenna gain

Limits:

| FCC | ISED |
|---|------|
| 6 dBi / > 6 dBi output power and power density reduction required | |

Results: 3-3-TR-587 977-01 Flir K1340- Antenna characterization_A)

| T _{nom} | V _{nom} | 2402 MHz | 2440 MHz | 2480 MHz |
|--------------------------|------------------|----------|----------|----------|
| Gain [dBi] Calculated | | 0.9 | | |

NOTE: Maximum peak gain within 2400 MHz to 2483.5 MHz

13.2 Identify worst case data rate

Results:

| Modulation scheme / bandwidth | |
|-------------------------------|----------|
| DSSS / b – mode | 1 Mbit/s |
| OFDM / g – mode | 6 Mbit/s |
| OFDM / n HT20 – mode | MCS 0 |

* Worst case data rate or modulation scheme declared by the manufacturer

13.3 Maximum output power

Description:

Measurement of the maximum conducted peak output power. The measurements are performed using the data rate identified in the previous chapter.

Measurement:

| Measurement parameter | |
|----------------------------------|-------------------------|
| According to DTS clause: 8.3.1.3 | |
| Peak power meter | |
| Test setup | See chapter 7.4 setup A |
| Measurement uncertainty | See chapter 9 |

Limits:

| FCC | ISED |
|---|------|
| Conducted 1.0 W / 30 dBm with an antenna gain of max. 6 dBi | |
| Conducted limit with an gain of XX dBi = XX dBm | |

Results:

| antenna port 1 | maximum output power / dBm | | |
|--|----------------------------|----------------|-----------------|
| | lowest channel | middle channel | highest channel |
| Output power conducted DSSS / b – mode | 16.8 | 16.9 | 16.9 |
| Output power conducted OFDM / g – mode | 20.1 | 20.3 | 19.9 |
| Output power conducted OFDM / n HT20 – mode | 20.0 | 20.3 | 19.8 |

13.4 Band edge compliance radiated

Description:

Measurement of the radiated band edge compliance. The EUT is turned in the position that results in the maximum level at the band edge. Then a sweep over the corresponding restricted band is performed. The EUT is set to the lowest channel for the lower restricted band and to the highest channel for the upper restricted band. Measurement distance is 3 meter.

Measurement:

| | Measurement parameter for peak measurements | Measurement parameter for average measurements |
|-------------------------|---|---|
| | | According to DTS clause: 8.7.3 |
| Detector | Peak | RMS |
| Sweep time | Auto | Auto |
| Resolution bandwidth | 1 MHz | 100 kHz |
| Video bandwidth | 1 MHz | 300 kHz |
| Span | See plot | 2 MHz |
| Trace mode | Max. hold | RMS Average over 101 sweeps |
| Analyzer function | -/- | Band power function (Compute the power by integrating the spectrum over 1 MHz) |
| Test setup | See chapter 7.2 setup A | |
| Measurement uncertainty | See chapter 9 | |

Limits:

| FCC | ISED |
|---|------|
| 74 dB μ V/m @ 3 m (Peak) 54 dB μ V/m @ 3 m (AVG) | |

Results:

| band edge compliance radiated / (dB μ V / m) @ 3 m | | | |
|--|---------------------------|---------------------------|---------------------------|
| | DSSS / b – mode | OFDM / g – mode | OFDM / n HT20 – mode |
| Lower band edge | 50.5 (Peak) 40.8 (AVG) | 62.1 (Peak) 44.4 (AVG) | 67.3 (Peak) 47.8 (AVG) |
| Upper band edge | 51.4 (Peak) 40.7 (AVG) | 65.0 (Peak) 44.3 (AVG) | 68.8 (Peak) 47.2 (AVG) |

13.5 Spurious emissions radiated below 30 MHz

Description:

Measurement of the radiated spurious emissions in transmit mode below 30 MHz. The limits are recalculated to a measurement distance of 3 m with 40 dB/decade according CFR Part 2.

Measurement:

| Measurement parameter | |
|-------------------------|--|
| Detector | Peak / Quasi Peak |
| Sweep time | Auto |
| Resolution bandwidth | F < 150 kHz: 200 Hz F > 150 kHz: 9 kHz |
| Video bandwidth | F < 150 kHz: 1 kHz F > 150 kHz: 100 kHz |
| Span | 9 kHz to 30 MHz |
| Trace mode | Max Hold |
| Measured modulation | <input checked="" type="checkbox"/> DSSS b – mode <input checked="" type="checkbox"/> OFDM g – mode <input type="checkbox"/> OFDM n HT20 – mode <input type="checkbox"/> OFDM n HT40 – mode |
| Test setup | See chapter 7.2 setup C |
| Measurement uncertainty | See chapter 9 |

Limits:

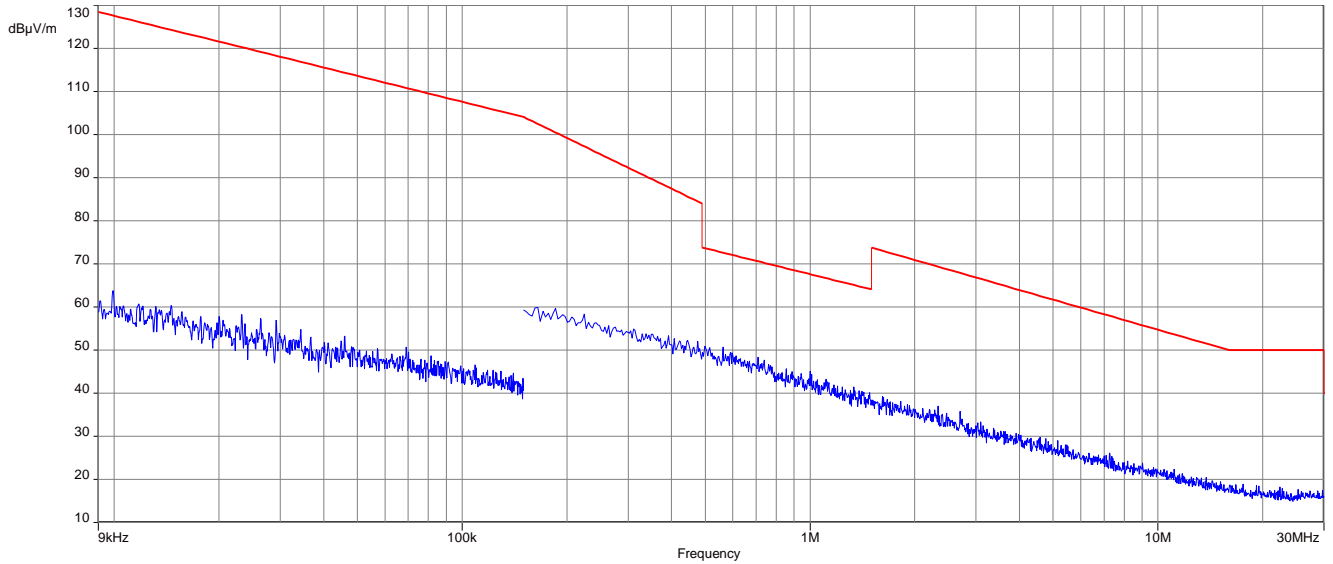
| FCC | | ISED |
|-----------------|---------------------------|--------------------------|
| Frequency / MHz | Field Strength / (μV / m) | Measurement distance / m |
| 0.009 – 0.490 | 2400/F(kHz) | 300 |
| 0.490 – 1.705 | 24000/F(kHz) | 30 |
| 1.705 – 30.0 | 30 | 30 |

Results:

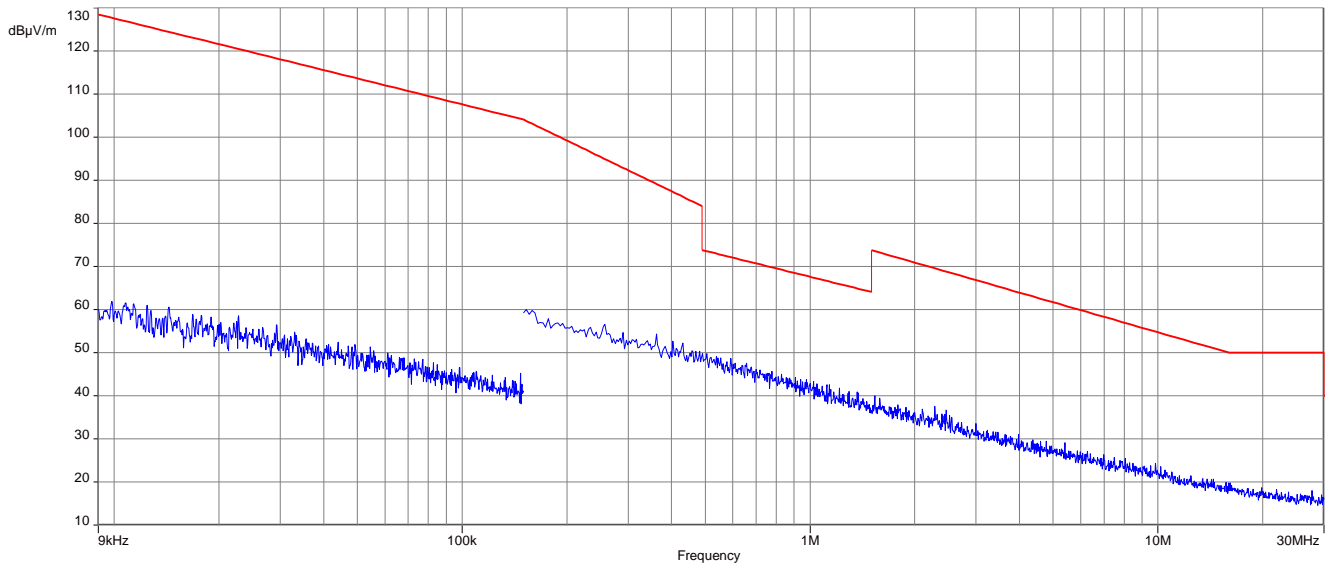
| TX spurious emissions radiated < 30 MHz / (dBμV / m) @ 3 m | | |
|--|----------|--------------------|
| Frequency / MHz | Detector | Level / (dBμV / m) |
| All detected peaks are more than 20 dB below the limit. | | |

Plots: DSSS

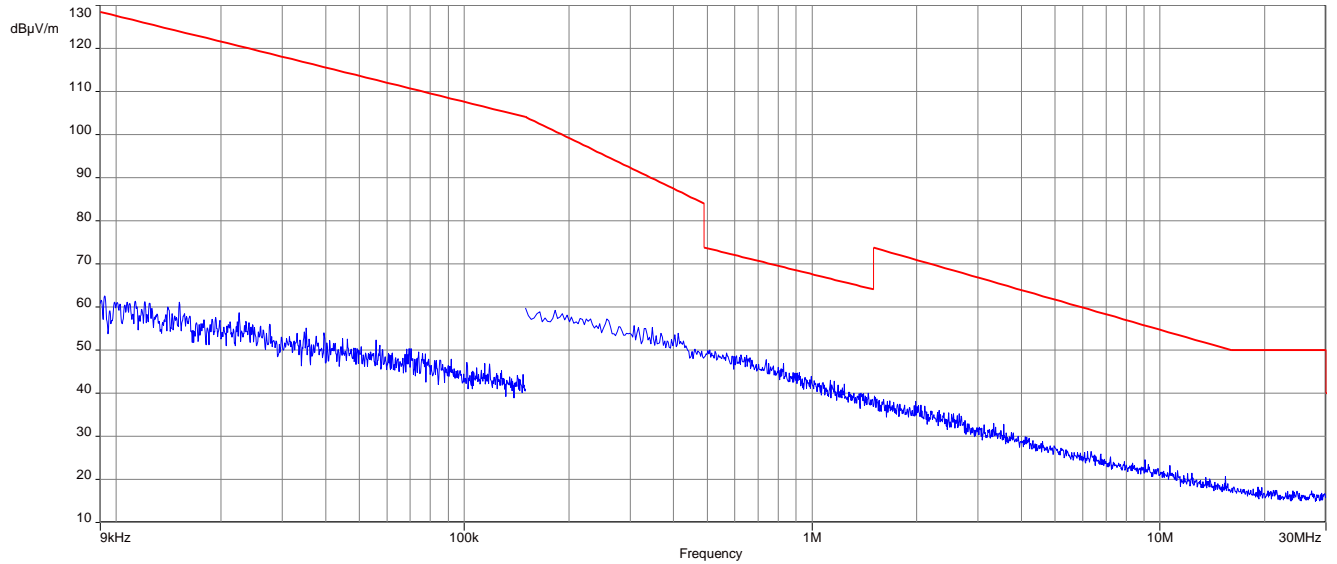
Plot 1: 9 kHz to 30 MHz, lowest channel



Plot 2: 9 kHz to 30 MHz, middle channel

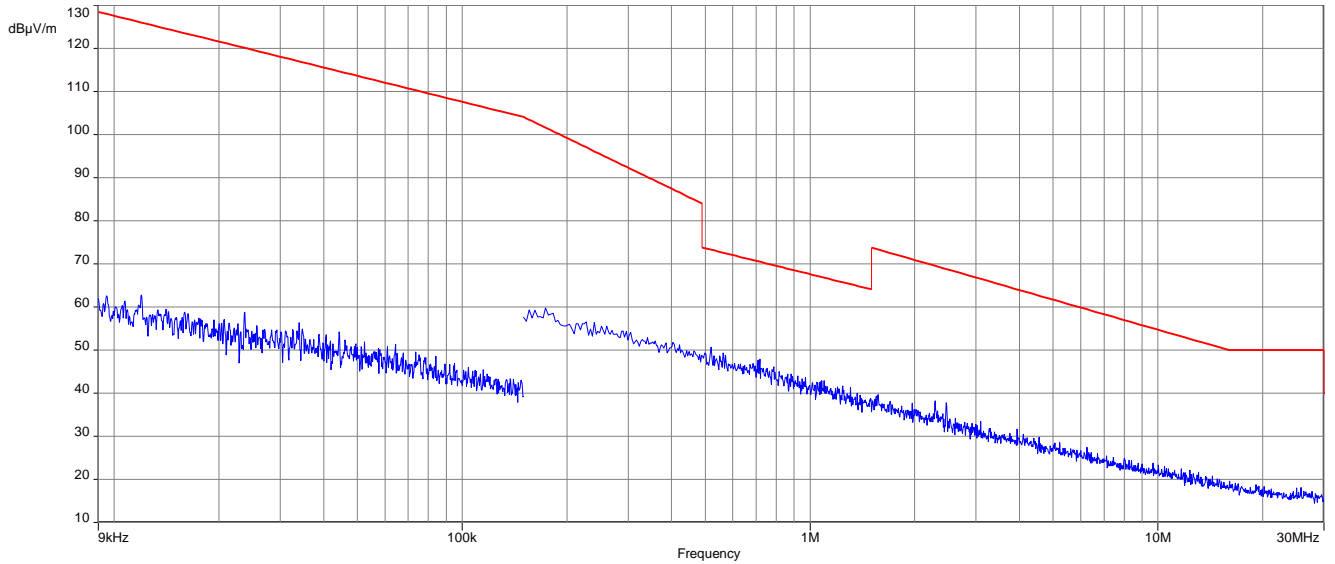


Plot 3: 9 kHz to 30 MHz, highest channel

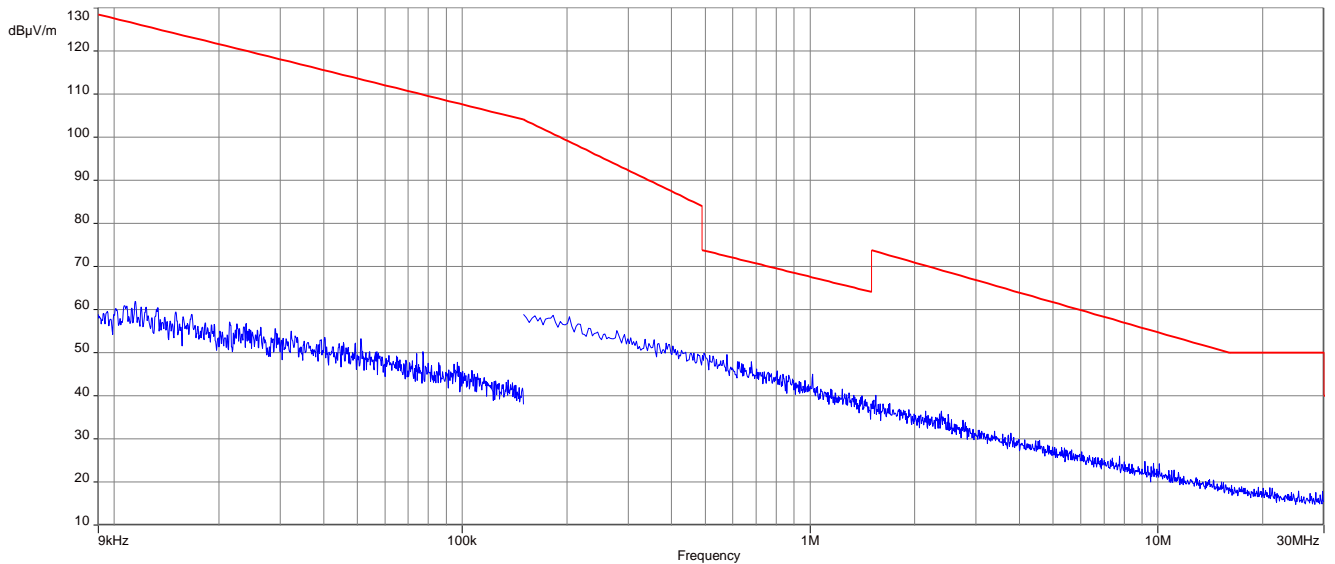


Plots: OFDM (20 MHz nominal channel bandwidth)

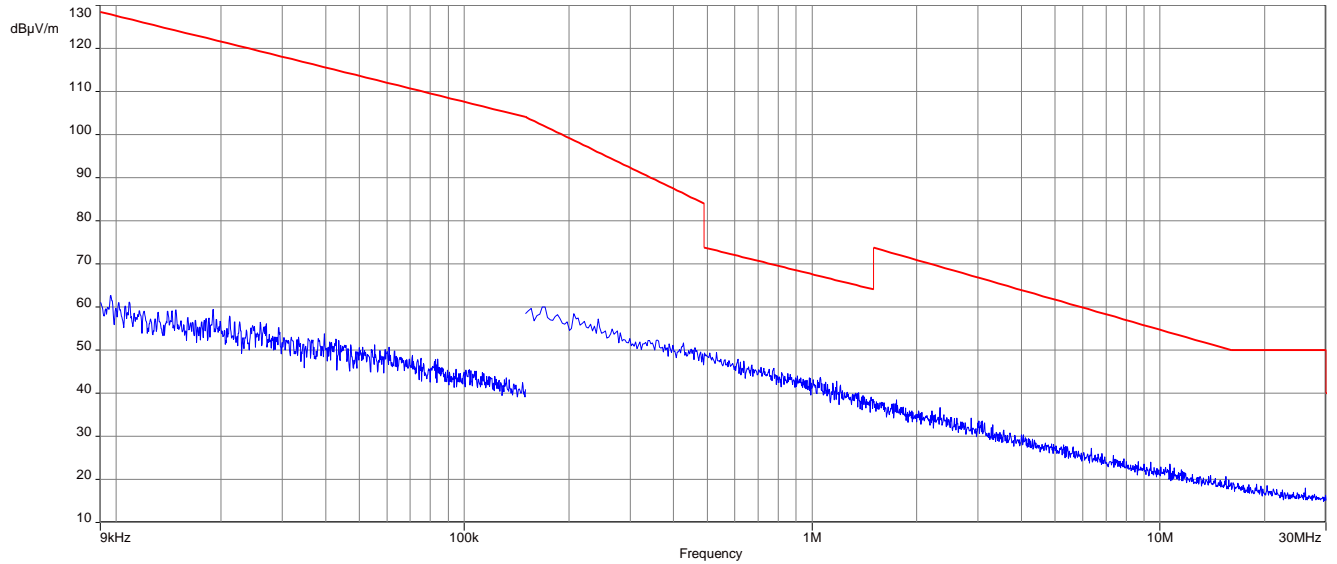
Plot 1: 9 kHz to 30 MHz, lowest channel



Plot 2: 9 kHz to 30 MHz, middle channel



Plot 3: 9 kHz to 30 MHz, highest channel



13.6 Spurious emissions radiated 30 MHz to 1 GHz

Description:

Measurement of the radiated spurious emissions and cabinet radiations below 1 GHz.

Measurement:

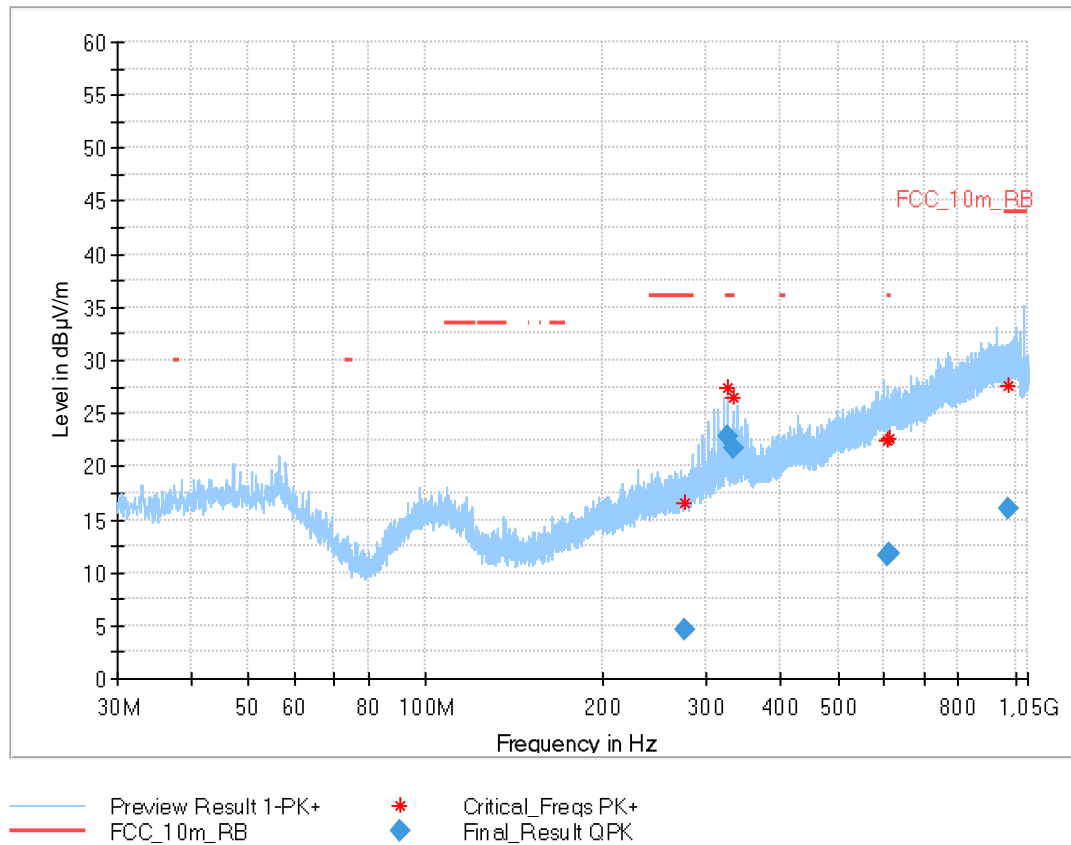
| Measurement parameter | |
|-------------------------|--|
| Detector | Peak / Quasi Peak |
| Sweep time | Auto |
| Resolution bandwidth | 120 kHz |
| Video bandwidth | 3 x RBW |
| Span | 30 MHz to 1 GHz |
| Trace mode | Max Hold |
| Measured modulation | <input checked="" type="checkbox"/> DSSS b – mode <input checked="" type="checkbox"/> OFDM g – mode <input type="checkbox"/> OFDM n HT20 – mode <input type="checkbox"/> OFDM n HT40 – mode |
| Test setup | See chapter 7.1 setup A |
| Measurement uncertainty | See chapter 9 |

Limits:

| FCC | | ISED |
|--|-----------------------------|--------------------------|
| In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). | | |
| Frequency / MHz | Field Strength / (dBµV / m) | Measurement distance / m |
| 30 – 88 | 30.0 | 10 |
| 88 – 216 | 33.5 | 10 |
| 216 – 960 | 36.0 | 10 |

Plot: DSSS

Plot 1: 30 MHz to 1 GHz, vertical & horizontal polarization, valid for all channels

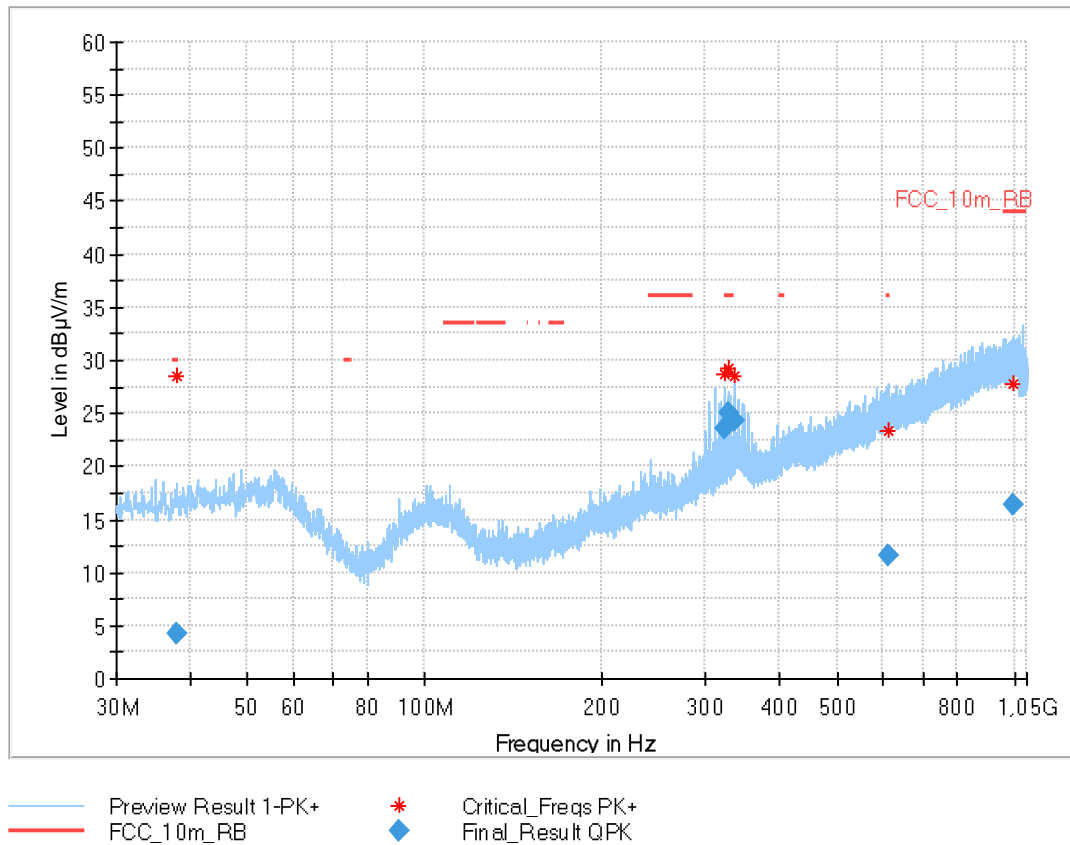


Final results:

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 275.631 | 4.64 | 36.0 | 31.4 | 1000 | 120.0 | 151.0 | H | -44 | 15 |
| 325.841 | 22.82 | 36.0 | 13.2 | 1000 | 120.0 | 262.0 | H | -12 | 16 |
| 331.794 | 21.73 | 36.0 | 14.3 | 1000 | 120.0 | 284.0 | H | 154 | 16 |
| 607.525 | 11.55 | --- | --- | 1000 | 120.0 | 174.0 | H | 75 | 22 |
| 613.352 | 11.87 | 36.0 | 24.1 | 1000 | 120.0 | 200.0 | H | 67 | 22 |
| 975.088 | 16.02 | 44.0 | 28.0 | 1000 | 120.0 | 311.0 | V | 152 | 25 |

Plot: OFDM (20 MHz nominal channel bandwidth)

Plot 1: 30 MHz to 1 GHz, vertical & horizontal polarization, valid for all channels



Final results:

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 38.020 | 4.23 | 30.0 | 25.8 | 1000 | 120.0 | 400.0 | V | 56 | 14 |
| 322.850 | 23.58 | 36.0 | 12.4 | 1000 | 120.0 | 240.0 | H | 1 | 16 |
| 328.711 | 25.10 | 36.0 | 10.9 | 1000 | 120.0 | 280.0 | H | 18 | 16 |
| 334.893 | 24.35 | 36.0 | 11.7 | 1000 | 120.0 | 268.0 | H | 12 | 16 |
| 610.038 | 11.66 | 36.0 | 24.3 | 1000 | 120.0 | 400.0 | H | 315 | 22 |
| 998.626 | 16.45 | 44.0 | 27.6 | 1000 | 120.0 | 200.0 | H | 12 | 26 |

13.7 Spurious emissions radiated above 1 GHz

Description:

Measurement of the radiated spurious emissions above 1 GHz in transmit mode and receiver / idle mode.

Measurement:

| Measurement parameter | |
|-------------------------|--|
| Detector | Peak / RMS |
| Sweep time | Auto |
| Resolution bandwidth | 1 MHz |
| Video bandwidth | 3 x RBW |
| Span | 1 GHz to 26 GHz |
| Trace mode | Max Hold |
| Measured modulation | <input checked="" type="checkbox"/> DSSS b – mode <input checked="" type="checkbox"/> OFDM g – mode <input type="checkbox"/> OFDM n HT20 – mode <input type="checkbox"/> OFDM n HT40 – mode |
| Test setup | See chapter 7.2 setup B & 7.3 setup A |
| Measurement uncertainty | See chapter 9 |

Limits:

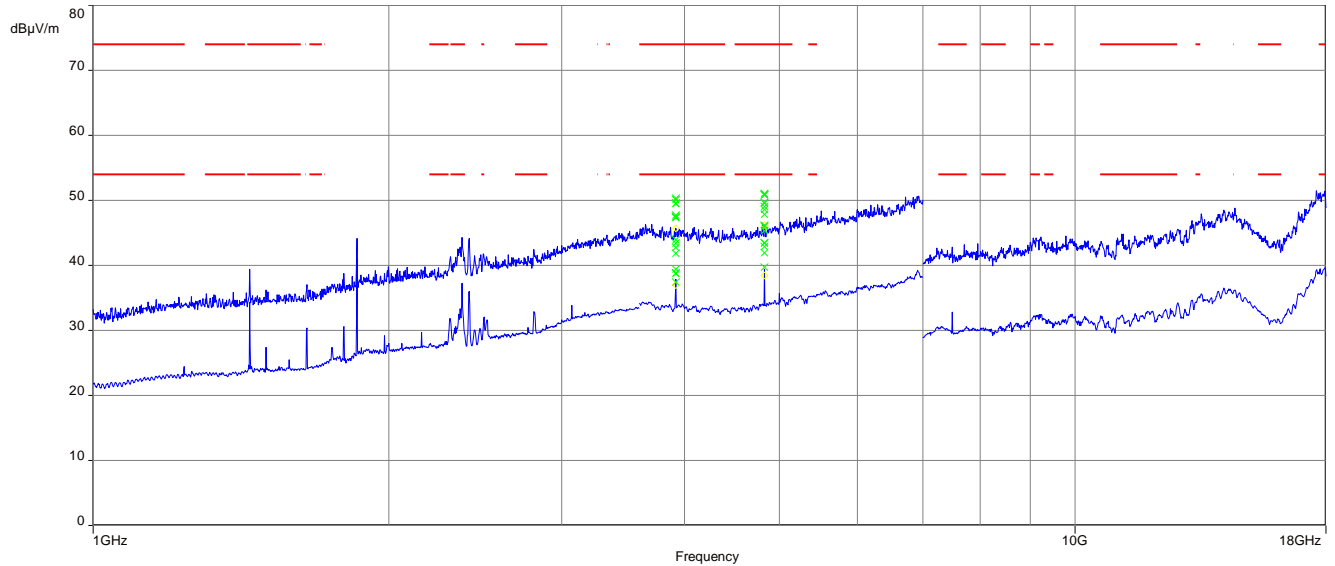
| FCC | | ISED |
|--|-----------------------------------|--------------------------|
| In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). | | |
| Frequency / MHz | Field Strength / (dB μ V / m) | Measurement distance / m |
| Above 960 | 54.0 (AVG) | 3 |
| | 74.0 (peak) | |

Results: DSSS

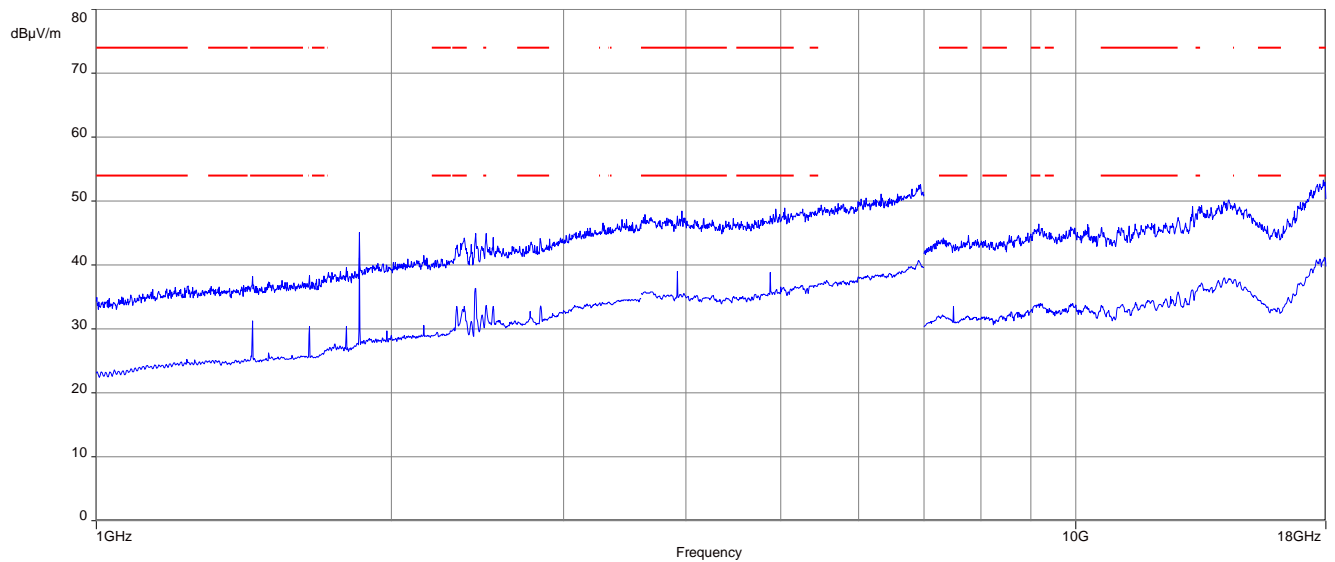
| TX spurious emissions radiated / dB μ V/m @ 3 m | | | | | | | | |
|---|----------|----------------------|----------------|----------|----------------------|-----------------|----------|----------------------|
| lowest channel | | | middle channel | | | highest channel | | |
| f / MHz | Detector | Level / dB μ V/m | f / MHz | Detector | Level / dB μ V/m | f / MHz | Detector | Level / dB μ V/m |
| 3919 | Peak | 50.3 | -/- | Peak | -/- | 3919 | Peak | 51.3 |
| | AVG | 43.9 | | AVG | -/- | | AVG | 44.8 |
| 4824 | Peak | 51.0 | -/- | Peak | -/- | 4924 | Peak | 50.4 |
| | AVG | 46.2 | | AVG | -/- | | AVG | 43.1 |

Results: OFDM (20 MHz nominal channel bandwidth)

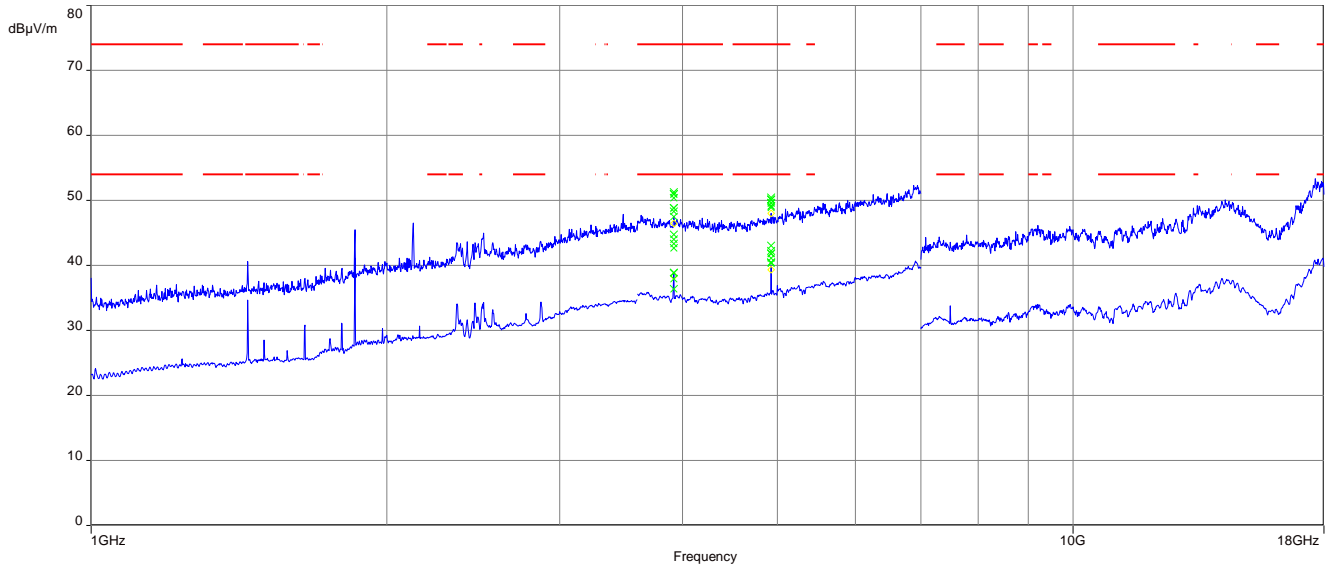
| TX spurious emissions radiated / dB μ V/m @ 3 m | | | | | | | | |
|---|----------|----------------------|---|----------|----------------------|---|----------|----------------------|
| lowest channel | | | middle channel | | | highest channel | | |
| f / MHz | Detector | Level / dB μ V/m | f / MHz | Detector | Level / dB μ V/m | f / MHz | Detector | Level / dB μ V/m |
| All detected emissions are more than 10 dB below the limit. | | | All detected emissions are more than 10 dB below the limit. | | | All detected emissions are more than 10 dB below the limit. | | |

Plots: DSSS**Plot 1:** Lowest channel, 1 GHz to 18 GHz, vertical & horizontal polarization

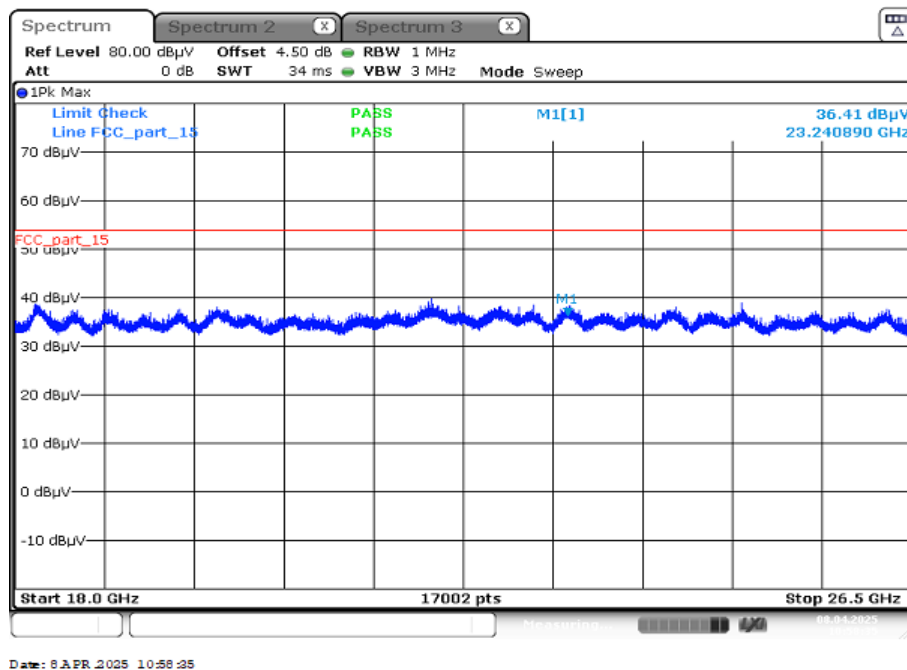
The carrier signal is notched with a 2.4 GHz band rejection filter.

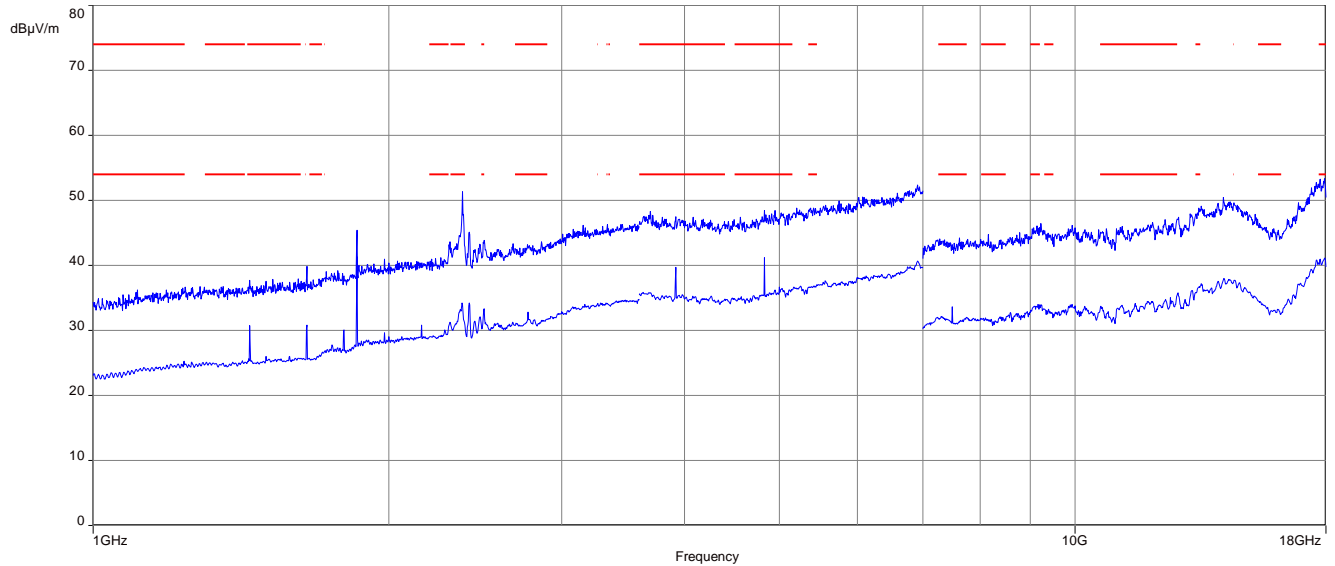
Plot 2: Middle channel, 1 GHz to 18 GHz, vertical & horizontal polarization

The carrier signal is notched with a 2.4 GHz band rejection filter.

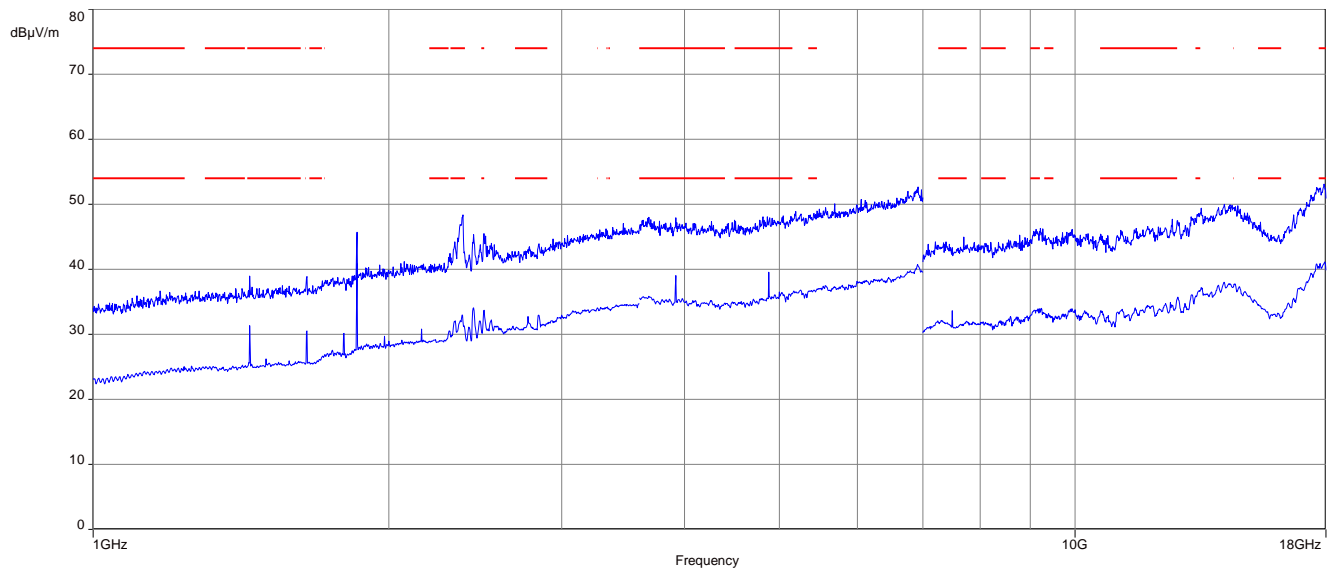
Plot 3: Highest channel, 1 GHz to 18 GHz, vertical & horizontal polarization

The carrier signal is notched with a 2.4 GHz band rejection filter.

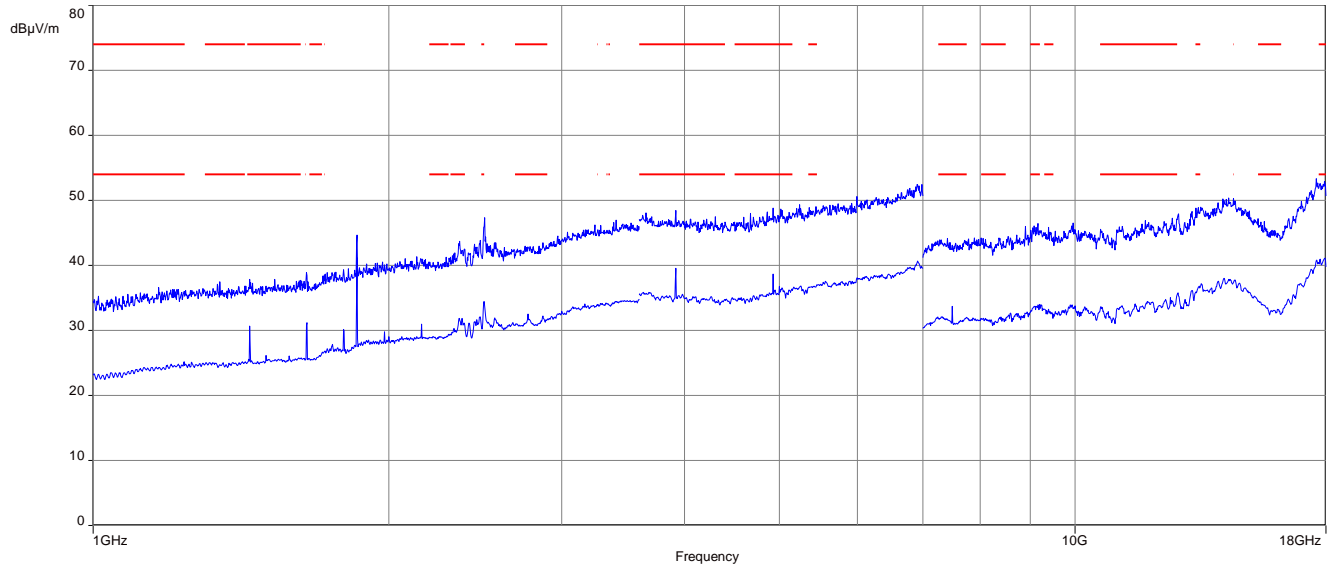
Plot 4: 18 GHz to 26 GHz, vertical & horizontal polarization, valid for all channels

Plots: OFDM (20 MHz bandwidth)**Plot 1:** Lowest channel, 1 GHz to 18 GHz, vertical & horizontal polarization

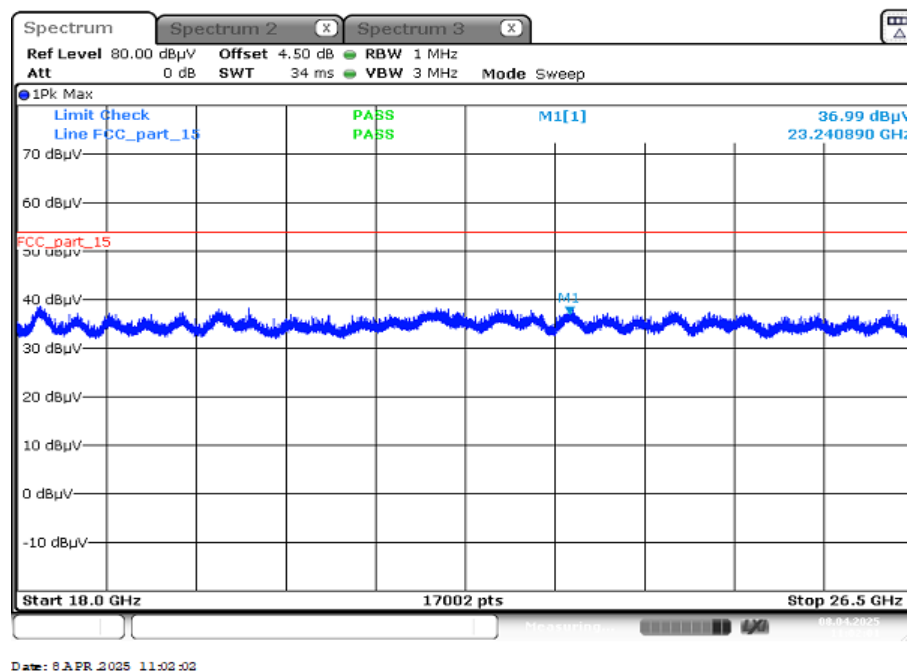
The carrier signal is notched with a 2.4 GHz band rejection filter.

Plot 2: Middle channel, 1 GHz to 18 GHz, vertical & horizontal polarization

The carrier signal is notched with a 2.4 GHz band rejection filter.

Plot 3: Highest channel, 1 GHz to 18 GHz, vertical & horizontal polarization

The carrier signal is notched with a 2.4 GHz band rejection filter.

Plot 4: 18 GHz to 26 GHz, vertical & horizontal polarization

13.8 Observations

No observations except those reported with the single test cases have been made.

14 Glossary

| | |
|------------------------|--|
| AVG | Average |
| C | Compliant |
| C/N₀ | Carrier to noise-density ratio, expressed in dB-Hz |
| CAC | Channel availability check |
| CW | Clean wave |
| DC | Duty cycle |
| DFS | Dynamic frequency selection |
| DSSS | Dynamic sequence spread spectrum |
| DUT | Device under test |
| EN | European Standard |
| ETSI | European Telecommunications Standards Institute |
| EMC | Electromagnetic Compatibility |
| EUT | Equipment under test |
| FCC | Federal Communications Commission |
| FCC ID | Company Identifier at FCC |
| FHSS | Frequency hopping spread spectrum |
| FVIN | Firmware version identification number |
| GNSS | Global Navigation Satellite System |
| GUE | GNSS User Equipment |
| HMN | Host marketing name |
| HVIN | Hardware version identification number |
| HW | Hardware |
| IC | Industry Canada |
| Inv. No. | Inventory number |
| MC | Modulated carrier |
| NA | Not applicable |
| NC | Not compliant |
| NOP | Non occupancy period |
| NP | Not performed |
| OBW | Occupied bandwidth |
| OC | Operating channel |
| OCW | Operating channel bandwidth |
| OFDM | Orthogonal frequency division multiplexing |
| OOB | Out of band |
| OP | Occupancy period |
| PER | Packet error rate |
| PMN | Product marketing name |
| PP | Positive peak |
| QP | Quasi peak |
| RLAN | Radio local area network |
| S/N or SN | Serial number |
| SW | Software |
| UUT | Unit under test |
| WLAN | Wireless local area network |

15 Document history

| Version | Applied changes | Date of release |
|---------|-------------------------------|-----------------|
| R01 | Initial release | 2025-04-10 |
| R02 | Editorial changes (HVIN, PMN) | 2025-06-10 |

END OF TEST REPORT