

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                 |                                                                    |                                                                                       |                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------|
| <b>Prüfbericht-Nr.:</b><br><i>Test Report No.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>DE21CJKO 001</b>                                                                             | <b>Auftrags-Nr.:</b><br><i>Order No.:</i>                          | 1092552_10                                                                            | Seite 1 von 64<br><i>Page 1 of 64</i>   |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client Reference No.:</i>                                                                                                                                                                                                                                                                                                                                                                                                         | —                                                                                               | <b>Auftragsdatum:</b><br><i>Order date:</i>                        | 07.07.2021                                                                            |                                         |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                                                                                                                                                                                                                              | Kerlink, 1 rue Jacqueline Auriol, 35235 Thorigne-Fouillard, France                              |                                                                    |                                                                                       |                                         |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>                                                                                                                                                                                                                                                                                                                                                                                                                         | LoRa Gateway                                                                                    |                                                                    |                                                                                       |                                         |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type No.:</i>                                                                                                                                                                                                                                                                                                                                                                                                  | Wirnet iZeptocell PDTIOT-IZEE900                                                                |                                                                    |                                                                                       |                                         |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>                                                                                                                                                                                                                                                                                                                                                                                                                    | Prüfung der elektromagnetischen Verträglichkeit EMV / Test of electromagnetic compatibility EMC |                                                                    |                                                                                       |                                         |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                                                                                                                                                                                                                                 | Komplettprüfung / Complete test<br>FCC Part 15 Subpart B<br>ICES-003 (Issue 7)                  |                                                                    |                                                                                       |                                         |
| <b>Wareneingangsdatum:</b><br><i>Date of receipt:</i>                                                                                                                                                                                                                                                                                                                                                                                                               | 27.09.2021                                                                                      | Photos see Appendix to this report<br>(Appendix A to DE21CJKO 001) |                                                                                       |                                         |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample No.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                   | A003136187-007                                                                                  |                                                                    |                                                                                       |                                         |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>                                                                                                                                                                                                                                                                                                                                                                                                                      | 26.10.2021 – 17.11.2021                                                                         |                                                                    |                                                                                       |                                         |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>                                                                                                                                                                                                                                                                                                                                                                                                                 | Nürnberg / Nuremberg                                                                            |                                                                    |                                                                                       |                                         |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>                                                                                                                                                                                                                                                                                                                                                                                                              | EMV Labor / EMC test lab                                                                        |                                                                    |                                                                                       |                                         |
| <b>Prüfergebnis*:</b><br><i>Test result*:</i>                                                                                                                                                                                                                                                                                                                                                                                                                       | PASS                                                                                            |                                                                    |                                                                                       |                                         |
| <b>geprüft von:</b><br><i>tested by:</i>                                                                                                                                                                                                                                                                                                                                                                                                                            |              | <b>authorized by:</b><br><i>genehmigt von:</i>                     |  |                                         |
| <b>Datum:</b><br><i>Date:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                       | 17.11.2021                                                                                      | <b>Ausstelldatum:</b><br><i>Issue date:</i>                        | 17.11.2021                                                                            | Patrick Reusch                          |
| <b>Stellung / Position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sachverständige(r)/Expert                                                                       | <b>Stellung / Position</b>                                         | Head of Laboratory                                                                    |                                         |
| <b>Sonstiges / Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           | —                                                                                               |                                                                    |                                                                                       |                                         |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br><i>Condition of the test item at delivery:</i>                                                                                                                                                                                                                                                                                                                                                              | Prüfmuster vollständig und unbeschädigt<br><i>Test item complete and undamaged</i>              |                                                                    |                                                                                       |                                         |
| <b>* Legende:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 = sehr gut<br>P(ass) = entspricht o.g. Prüfgrundlage(n)                                       | 2 = gut<br>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)         | 3 = befriedigend<br>N/A = nicht anwendbar                                             | 4 = ausreichend<br>N/T = nicht getestet |
| <b>Legend:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 = very good<br>P(ass) = passed a.m. test specification(s)                                     | 2 = good<br>F(ail) = failed a.m. test specification(s)             | 3 = satisfactory<br>N/A = not applicable                                              | 4 = sufficient<br>N/T = not tested      |
| <p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br/> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p> |                                                                                                 |                                                                    |                                                                                       |                                         |

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### Anmerkungen Remarks

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.</i></p> <p><i>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>                                                           |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4 | <p>Die Messunsicherheit der in diesem Prüfbericht aufgeführten Messverfahren wird nicht in die Einhaltung der jeweiligen Grenzwerte / Betriebsbedingungen mit einbezogen. Für Emissionsprüfungen gelten die Anforderungen CISPR 16-4-2:2011-06 in aktueller Form.</p> <p><i>The measurement uncertainty of the measurement procedures listed in this test report does not include the compliance of the respective limit values / operating conditions. For emission tests the requirements, CISPR 16-4-2:2011-06 apply in their current form.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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**Anmerkungen**  
**Remarks**

- |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5</b> | <p>Sofern mit dem Kunden keine abweichende Regelung getroffen wurde, wird eine Konformitätsbewertung grundsätzlich auf Basis der angewendeten Normen durchgeführt.<br/>Auf Kundenwunsch wird die Aussage zur Konformität des in diesem Prüfbericht geprüften Produktes nach den Kriterien/Anforderungen der angewendeten Normen durchgeführt.<br/>Davon abweichende Bewertungsbedingungen werden in den jeweiligen Kapiteln gesondert dokumentiert.</p> <p><i>Unless otherwise agreed with the customer, a conformity assessment is always carried out based on the applied standards.<br/>At the customer's request, the statement on the conformity of the product tested in this test report is carried out according to the criteria/requirements of the applied standards.<br/>Evaluation conditions deviating from these are documented separately in the respective chapters.</i></p> |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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**Produktbeschreibung**  
**Product description**

|    |                                                             |                                                                                                                                                                     |
|----|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6  | <b>Baugleiche Modelle</b><br><i>Identical types</i>         | —                                                                                                                                                                   |
| 7  | <b>Beschreibung</b><br><i>Description</i>                   | The Wirnet iZeptocell gateway is part of the global Long-Range Radio fixed network to provide M2M connectivity link between low power end-point and Internet Access |
| 8  | <b>Seriennummer</b><br><i>Serial number</i>                 | —                                                                                                                                                                   |
| 9  | <b>Hersteller</b><br><i>Manufacturer</i>                    | identisch mit Auftraggeber / same as applicant                                                                                                                      |
| 10 | <b>Bemessungsspannung</b><br><i>Rated voltage</i>           | DUT Input: 5 V<br>Power Supply Input: 100-240 V                                                                                                                     |
| 11 | <b>Bemessungsfrequenz</b><br><i>Rated frequency</i>         | DUT: DC<br>Power Supply: 50/60 Hz                                                                                                                                   |
| 12 | <b>Bemessungsstrom</b><br><i>Rated current</i>              | —                                                                                                                                                                   |
| 13 | <b>Bemessungsleistung</b><br><i>Rated power consumption</i> | 3.5W                                                                                                                                                                |
| 14 | <b>Prüflingstyp</b><br><i>Equipment type</i>                | Sonstiges/Other                                                                                                                                                     |
| 15 | <b>Geräteklasse</b><br><i>Equipment category</i>            | Class B                                                                                                                                                             |
| 16 | <b>Anzahl der Phasen</b><br><i>Number of phases</i>         | 1                                                                                                                                                                   |
| 17 | <b>Schutzklasse</b><br><i>Protection class</i>              | II - Schutzisolierung/Double insulated                                                                                                                              |
| 18 | <b>Hardwareversion</b><br><i>Hardware version</i>           | V4B                                                                                                                                                                 |
| 19 | <b>Softwareversion</b><br><i>Software version</i>           | KEROS 5.2-beta1-20210913040327                                                                                                                                      |
| 20 | <b>Abmessungen</b><br><i>Dimensions</i>                     | 76.0 x 68.5 x 31.8 mm                                                                                                                                               |
| 21 | <b>Gewicht</b><br><i>Weight</i>                             | 70g                                                                                                                                                                 |

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**Produktbeschreibung**  
***Product description***

|    |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22 | <b>Sonstiges</b><br><i>Other</i>                                | Nach technischer Prüfung wurde die geprüfte Konfiguration als ausreichend repräsentativ für die Beurteilung angesehen. Bei den nachfolgend gelisteten Geräten kann davon ausgegangen werden, dass sie sich das Prüfergebnis nicht wesentlich von den tatsächlich geprüften Werten unterscheiden wird. / <i>After technical examination, the tested device was regarded as sufficiently representative for the assessment. For the devices listed below, it can be assumed that the test result will not differ significantly from the values actually tested.</i> |
| 23 | <b>Prüfmusterbereitstellung</b><br><i>Test sample obtaining</i> | <input checked="" type="checkbox"/> Sending by customer <input type="checkbox"/> Sampling by TÜV Rheinland Group<br><input type="checkbox"/> others:                                                                                                                                                                                                                                                                                                                                                                                                              |

Bilder / Pictures

Photos see Appendix to this report (Appendix A to DE21CJKO 001)

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| Absatz |                                                                                                       | Messergebnisse - Bemerkungen                                                                                                                                                                                              | Bewertung                                                                                                                           |
|--------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Clause | Anforderungen - Prüfungen / Requirements - Tests                                                      | Measuring results - Remarks                                                                                                                                                                                               | Evaluation                                                                                                                          |
| 24     | <b>Funkstörspannung</b><br>Conducted voltage emissions<br>47 CFR FCC Part 15 Subpart B Section 15.107 | Details in protocol number:<br><a href="#">1271</a><br>Operating mode:<br>Ein / On<br>EUT:<br>Wirnet iZeptocell PDTIOT-<br>IZEE900 (A003136187-007)<br>Terminals:<br>Netzleitung / Supply line<br>Remarks:<br>—           | P <input checked="" type="checkbox"/><br>F <input type="checkbox"/><br>N/A <input type="checkbox"/><br>N/T <input type="checkbox"/> |
| 25     | <b>Funkstörspannung</b><br>Conducted voltage emissions<br>ICES-003:2020 (Issue 7)                     | Details in protocol number:<br><a href="#">1284</a><br>Operating mode:<br>Ein / On 240V/50Hz<br>EUT:<br>Wirnet iZeptocell PDTIOT-<br>IZEE900 (A003136187-007)<br>Terminals:<br>Netzleitung / Supply line<br>Remarks:<br>— | P <input checked="" type="checkbox"/><br>F <input type="checkbox"/><br>N/A <input type="checkbox"/><br>N/T <input type="checkbox"/> |
| 26     | <b>Funkstörspannung</b><br>Conducted voltage emissions<br>47 CFR FCC Part 15 Subpart B Section 15.107 | Details in protocol number:<br><a href="#">1285</a><br>Operating mode:<br>Ein / On 240V/50Hz<br>EUT:<br>Wirnet iZeptocell PDTIOT-<br>IZEE900 (A003136187-007)<br>Terminals:<br>Netzleitung / Supply line<br>Remarks:<br>— | P <input checked="" type="checkbox"/><br>F <input type="checkbox"/><br>N/A <input type="checkbox"/><br>N/T <input type="checkbox"/> |

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|---------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--|
| Absatz                                            |                                                                                   | Messergebnisse - Bemerkungen                                                                                                                                                                                              | Bewertung                                                                                                                           |  |
| Clause                                            | Anforderungen - Prüfungen / Requirements - Tests                                  | Measuring results - Remarks                                                                                                                                                                                               | Evaluation                                                                                                                          |  |
| 27                                                | <b>Funkstörspannung</b><br>Conducted voltage emissions<br>ICES-003:2020 (Issue 7) | Details in protocol number:<br><a href="#">1286</a><br>Operating mode:<br>Ein / On 240V/50Hz<br>EUT:<br>Wirnet iZeptocell PDTIOT-<br>IZEE900 (A003136187-007)<br>Terminals:<br>Netzleitung / Supply line<br>Remarks:<br>— | P <input checked="" type="checkbox"/><br>F <input type="checkbox"/><br>N/A <input type="checkbox"/><br>N/T <input type="checkbox"/> |  |

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|        |                                                  |                              |            |
|--------|--------------------------------------------------|------------------------------|------------|
| Absatz |                                                  | Messergebnisse - Bemerkungen | Bewertung  |
| Clause | Anforderungen - Prüfungen / Requirements - Tests | Measuring results - Remarks  | Evaluation |

## Limits

### 47 CFR FCC Part 15 Subpart B section §15.107

Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

| Frequency [MHz] | Quasi-peak [dB( $\mu$ V)] | Average [dB( $\mu$ V)] |
|-----------------|---------------------------|------------------------|
| 0.15 – 0.5      | 66 to 56*                 | 56 to 46*              |
| 0.5 – 5         | 56                        | 46                     |
| 5 – 30          | 60                        | 50                     |

\*Decreases linearly with the logarithm of the frequency.

For a Class A digital device that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms LISN. Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| Frequency [MHz] | Quasi-peak [dB( $\mu$ V)] | Average [dB( $\mu$ V)] |
|-----------------|---------------------------|------------------------|
| 0.15 – 0.5      | 79                        | 66                     |
| 0.5 – 30        | 73                        | 60                     |

### ICES-003 section 3.2.1

| Frequency [MHz] | Class A Quasi-peak [dB $\mu$ V] | Class A Average [dB $\mu$ V] | Class B Quasi-peak [dB $\mu$ V] | Class B Average [dB $\mu$ V] |
|-----------------|---------------------------------|------------------------------|---------------------------------|------------------------------|
| 0.15 – 0.5      | 79                              | 66                           | 66 to 56*                       | 56 to 46*                    |
| 0.5 – 5         | 73                              | 60                           | 56                              | 46                           |
| 5 – 30          | 73                              | 60                           | 60                              | 50                           |

\*Decreases linearly with the logarithm of the frequency.

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| Absatz |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Messergebnisse - Bemerkungen                                                                                                                                                                                                                        | Bewertung                                                                                                                           |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Clause | Anforderungen - Prüfungen / Requirements - Tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Measuring results - Remarks                                                                                                                                                                                                                         | Evaluation                                                                                                                          |
|        | <b>Method of measurement of conducted emission</b><br><br>Floor-standing equipment was placed on a non-conducting support (up to 15 cm) over the reference ground plane. Tabletop equipment was placed on a table at a height of 0.8 m above the reference ground plane. All equipment was minimum 0.4 m away from the conducting walls of a shielded room. The Artificial Mains Network (AMN) was placed 0.8 m away from the boundary of the unit under test and bonded to the ground reference plane. All other units of the EUT and associated equipment were at least 0.8 m from the AMN. Supporting units were connected to other AMN if necessary. A pre-scan was made with peak and average-detector on all mains lines at the output of the AMN. The whole required frequency range was investigated for maximum conducted interferences. After data reduction, a final measurement of the highest emissions was made with quasi-peak and average detector with a measurement time of at least 1 s per single frequency. |                                                                                                                                                                                                                                                     |                                                                                                                                     |
| 28     | <b>Funkstörfeldstärke</b><br><i>Radiated disturbance</i><br>47 CFR FCC Part 15 Section 15.109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <i>Details in protocol number:</i><br><a href="#">1282</a><br><br><i>Operating mode:</i><br>Ein / On<br><br><i>EUT:</i><br>Wirnet iZeptocell PDTIOT-IZEE900 (A003136187-007)<br><br><i>Terminals:</i><br>Gehäuse / Enclosure<br><br><i>Remarks:</i> | P <input checked="" type="checkbox"/><br>F <input type="checkbox"/><br>N/A <input type="checkbox"/><br>N/T <input type="checkbox"/> |
| 29     | <b>Funkstörfeldstärke</b><br><i>Radiated disturbance</i><br>ICES-003:2020 (Issue 7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <i>Details in protocol number:</i><br><a href="#">1277</a><br><br><i>Operating mode:</i><br>Ein / On<br><br><i>EUT:</i><br>Wirnet iZeptocell PDTIOT-IZEE900 (A003136187-007)<br><br><i>Terminals:</i><br>Gehäuse / Enclosure<br><br><i>Remarks:</i> | P <input checked="" type="checkbox"/><br>F <input type="checkbox"/><br>N/A <input type="checkbox"/><br>N/T <input type="checkbox"/> |

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| Absatz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                         | Messergebnisse - Bemerkungen                                                                                                                                                                                                        | Bewertung                                                                                                                           |                 |                       |         |    |          |      |           |    |           |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|---------|----|----------|------|-----------|----|-----------|----|
| Clause                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Anforderungen - Prüfungen / Requirements - Tests                                                                        | Measuring results - Remarks                                                                                                                                                                                                         | Evaluation                                                                                                                          |                 |                       |         |    |          |      |           |    |           |    |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Funkstörfeldstärke (&gt; 1 GHz)</b><br><i>Radiated disturbance (&gt; 1 GHz)</i><br>47 CFR FCC Part 15 Section 15.109 | <i>Details in protocol number:</i><br><a href="#">1283</a><br><i>Operating mode:</i><br>Ein / On<br><i>EUT:</i><br>Wirnet iZeptocell PDTIOT-IZEE900 (A003136187-007)<br><i>Terminals:</i><br>Gehäuse / Enclosure<br><i>Remarks:</i> | P <input checked="" type="checkbox"/><br>F <input type="checkbox"/><br>N/A <input type="checkbox"/><br>N/T <input type="checkbox"/> |                 |                       |         |    |          |      |           |    |           |    |
| 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Funkstörfeldstärke (&gt; 1 GHz)</b><br><i>Radiated disturbance (&gt; 1 GHz)</i><br>ICES-003:2020 (Issue 7)           | <i>Details in protocol number:</i><br><a href="#">1281</a><br><i>Operating mode:</i><br>Ein / On<br><i>EUT:</i><br>Wirnet iZeptocell PDTIOT-IZEE900 (A003136187-007)<br><i>Terminals:</i><br>Gehäuse / Enclosure<br><i>Remarks:</i> | P <input checked="" type="checkbox"/><br>F <input type="checkbox"/><br>N/A <input type="checkbox"/><br>N/T <input type="checkbox"/> |                 |                       |         |    |          |      |           |    |           |    |
| <b>Limits</b><br><br><b>47 CFR FCC Part 15 Subpart B section §15.109</b><br>Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values<br><table><tr><td>Frequency [MHz]</td><td>Quasi-peak [dB(μV)/m]</td></tr><tr><td>30 – 88</td><td>40</td></tr><tr><td>88 – 216</td><td>43.5</td></tr><tr><td>216 – 960</td><td>46</td></tr><tr><td>Above 960</td><td>54</td></tr></table><br>The field strength of radiated emissions from a Class A digital device, as determined at a distance of 10 meters, shall not exceed the following, using measurement instrumentation employing a CISPR quasi-peak detector. |                                                                                                                         |                                                                                                                                                                                                                                     |                                                                                                                                     | Frequency [MHz] | Quasi-peak [dB(μV)/m] | 30 – 88 | 40 | 88 – 216 | 43.5 | 216 – 960 | 46 | Above 960 | 54 |
| Frequency [MHz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quasi-peak [dB(μV)/m]                                                                                                   |                                                                                                                                                                                                                                     |                                                                                                                                     |                 |                       |         |    |          |      |           |    |           |    |
| 30 – 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 40                                                                                                                      |                                                                                                                                                                                                                                     |                                                                                                                                     |                 |                       |         |    |          |      |           |    |           |    |
| 88 – 216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 43.5                                                                                                                    |                                                                                                                                                                                                                                     |                                                                                                                                     |                 |                       |         |    |          |      |           |    |           |    |
| 216 – 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 46                                                                                                                      |                                                                                                                                                                                                                                     |                                                                                                                                     |                 |                       |         |    |          |      |           |    |           |    |
| Above 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 54                                                                                                                      |                                                                                                                                                                                                                                     |                                                                                                                                     |                 |                       |         |    |          |      |           |    |           |    |

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| Absatz |                                                  | Messergebnisse - Bemerkungen | Bewertung  |
|--------|--------------------------------------------------|------------------------------|------------|
| Clause | Anforderungen - Prüfungen / Requirements - Tests | Measuring results - Remarks  | Evaluation |

| Frequency [MHz] | Quasi-peak [dB(μV)/m] |
|-----------------|-----------------------|
| 30 – 88         | 39.1                  |
| 88 – 216        | 43.5                  |
| 216 – 960       | 46.4                  |
| Above 960       | 49.5                  |

Note: For frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function.  
When average radiated emission measurements are specified, there also is a limit on the peak level of the radio frequency emissions which is 20 dB above the maximum permitted average emission limit. (see § 15.35 Measurement detector functions and bandwidths)

As an alternative to the radiated emission limits shown above, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22 (acc. §15.109 (g)).

The field strength of radiated emissions from Class B devices at a distance of 10 meters shall not exceed the following values

| Frequency [MHz] | Quasi-peak [dB(μV)/m] |
|-----------------|-----------------------|
| 30 – 230        | 30                    |
| 230 - 1000      | 37                    |

The field strength of radiated emissions from Class A devices at a distance of 10 meters shall not exceed the following values

| Frequency [MHz] | Quasi-peak [dB(μV)/m] |
|-----------------|-----------------------|
| 30 – 230        | 40                    |
| 230 - 1000      | 47                    |

### ICES-003 section 3.2.2

#### Radiated emissions limits (30 MHz to 1 GHz)

| Frequency [MHz] | Class A (3 m) Quasi-peak [dB(μV)/m] | Class A (10 m) Quasi-peak [dB(μV)/m] | Class B (3 m) Quasi-peak [dB(μV)/m] | Class B (10 m) Quasi-peak [dB(μV)/m] |
|-----------------|-------------------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| 30 – 88         | 50.0                                | 40.0                                 | 40.0                                | 30.0                                 |
| 88 – 216        | 54.0                                | 43.5                                 | 43.5                                | 33.1                                 |
| 216 – 230       | 56.9                                | 46.4                                 | 46.0                                | 35.6                                 |
| 230 – 960       | 57.0                                | 47.0                                 | 47.0                                | 37.0                                 |
| 960 – 1000      | 60.0                                | 49.5                                 | 54.0                                | 43.5                                 |

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|        |                                                  |                              |            |
|--------|--------------------------------------------------|------------------------------|------------|
| Absatz |                                                  | Messergebnisse - Bemerkungen | Bewertung  |
| Clause | Anforderungen - Prüfungen / Requirements - Tests | Measuring results - Remarks  | Evaluation |

**Radiated emission limits at 3 m distance (at and above 1 GHz)**

| Frequency<br>[GHz] | Class A<br>Average<br>[dB(μV)/m] | Class A<br>Peak<br>[dB(μV)/m] | Class B<br>Average<br>[dB(μV)/m] | Class B<br>Peak<br>[dB(μV)/m] |
|--------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|
| 1 – F <sub>M</sub> | 60                               | 80                            | 54                               | 74                            |

The highest measurement frequency, F<sub>M</sub>, in GHz, shall be determined as

| Highest internal frequency (F <sub>X</sub> ) | Highest measurement frequency<br>(F <sub>M</sub> ) |
|----------------------------------------------|----------------------------------------------------|
| F <sub>X</sub> ≤ 108 MHz                     | 1 GHz                                              |
| 108 MHz < F <sub>X</sub> ≤ 500 MHz           | 2 GHz                                              |
| 500 MHz < F <sub>X</sub> ≤ 1 GHz             | 5 GHz                                              |
| F <sub>X</sub> > 1 GHz                       | 5 x F <sub>X</sub> up to a maximum of 40 GHz       |

F<sub>X</sub> is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test. These limit levels apply for a measurement distance of 3 m. If using a different measurement distance, the measured levels shall be extrapolated to the 3 m limit distance using a factor of 20 dB per decade of distance. The measurement distance shall place the measurement antenna in the far field of the ITE or digital apparatus under test.

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| Absatz |                                                  | Messergebnisse - Bemerkungen | Bewertung  |
|--------|--------------------------------------------------|------------------------------|------------|
| Clause | Anforderungen - Prüfungen / Requirements - Tests | Measuring results - Remarks  | Evaluation |

#### Method of measurement of radiated emission

Measurements were made in a 10-meter semi-anechoic chamber that complies to ANSI C63.4:2014. Floor-standing equipment was placed on a non-conducting support ( $0.1 \pm 0.01$ ) m over the reference ground plane. Tabletop equipment was placed on a table at a height of ( $0.8 \pm 0.05$ ) m above the reference ground plane. Preliminary measurements were performed with a receiver employing a peak detector at an antenna to EUT distance of 10 m or 3 m (as defined in the standard). The EUT was rotated in  $45^\circ$  steps for frequencies below 1 GHz and  $22.5^\circ$  steps for frequencies over 1GHz about its azimuth to determine the position of the highest emissions. The measurement antenna was adjusted between 1 m and 4 m above ground to find the maximum signal strength. These measurements were done and in both horizontal and vertical polarizations. After this, final measurements with a receiver employing a quasi-peak detector for frequencies below 1 GHz and with a peak and an average detector for frequencies above 1 GHz were performed by rotating the EUT by  $360^\circ$  and adjusting the receive antenna height from 1 m to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity. For frequencies over 1 GHz floor absorbers were used between antenna and EUT to fulfil the SVSWR requirements.

The whole required frequency range was investigated for maximum radiated interferences. After data reduction, a final measurement of the highest emissions was made with quasi-peak, peak and average detector with a measurement time of at least 1 s per single frequency.

The emission limits are calculated from the field strength limit of this section using this formula:

$$Emission\ level\ \left(\frac{dB\mu V}{m}\right) = 20\ log\ Emission\ level\ \left(\frac{\mu V}{m}\right)$$

When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade as per §15.31(f)(1). For this documentation a distance extrapolation factor was added to the limit that was calculated using this formula:

$$Emission\ limit_{new}\left(\frac{dB\mu V}{m}\right) = Emission\ limit_{old} + 20\ log\ \left(\frac{d_1}{d_2}\right)$$

Where

$d_1$ : old distance (e. g. 3 m)

$d_2$ : new distance (e. g. 10 m)

The field strength is calculated by adding the antenna factor and cable loss. The basic equation with a sample calculation is as follows:

$$E = U + AF + CA$$

Where

$E$ : Field strength

$U$ : Receiver reading

$AF$ : Antenna factor

$CA$ : Cable loss

For example:

| Frequency (MHz) | Receiver reading U (dBμV) | Correction antenna factor AF + cable loss CA (dB) | Field strength E (dBμV/m) |
|-----------------|---------------------------|---------------------------------------------------|---------------------------|
| 320             | 15.9                      | 15.8                                              | 31.7                      |

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**32 Akkreditierungen und Anerkennungen**  
**Accreditations & Endorsements**

**US Federal Communications Commission**

TUV Rheinland LGA Products GmbH located at, Tillystraße 2, 90431 Nuremberg is recognized by the Bundesnetzagentur (Federal Network Agency for Electricity, Gas, Telecommunications, Post and Railway) as conformity assessment body.

|                                       |                     |
|---------------------------------------|---------------------|
| FCC designation number                | DE0016              |
| Bundesnetzagentur registration number | BNetzA-CAB-17/21-16 |

The measurement facilities are also recognized by Innovation, Science and Economic Development (ISED) Canada to test to Canadian radio equipment requirements.

|                |        |
|----------------|--------|
| Company Number | 11235A |
| CAB Identifier | DE0018 |

**33 Angewendete Standards**  
**Applied Standards**

*According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:*

- *Title 47 CFR FCC Part 15 Subpart B*
- *ANSI C63.4-2014 (Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz)*
- *ICES-003:2020 (Issue 7) (Information Technology Equipment (Including Digital Apparatus) — Limits and Methods of Measurement)*

*The test setup and test was done according to: ANSI C63.4-2014.*

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**34 Testkonfiguration**  
**Equipment used during test**

Prüfgegenstand  
Equipment under test

| Nr.<br>No. | Produktart<br>Product type | Hersteller<br>Manufacturer                           | Modell<br>Model                     | Kommentare<br>Comments |
|------------|----------------------------|------------------------------------------------------|-------------------------------------|------------------------|
| 1          | LoRa Gateway               | identisch mit<br>Auftraggeber / same<br>as applicant | Wirnet iZeptocell<br>PDTIOT-IZEE900 | —                      |

|   |               |   |              |   |
|---|---------------|---|--------------|---|
| 2 | Power Adapter | — | SMI5-5-V-I38 | — |
| 3 | USB Cabel     | — | —            | — |

Hilfsmittel / Peripherie  
Auxiliary Equipment / Peripherals

| Nr.<br>No. | Produktart<br>Product type | Hersteller<br>Manufacturer | Modell<br>Model | Kommentare<br>Comments |
|------------|----------------------------|----------------------------|-----------------|------------------------|
| 1          | Ethernet Switch            | —                          | —               | —                      |

**35 Ein-/Ausgabeanschlüsse**  
**Input/Output ports**

| Nr.<br>No. | Name                        | Art*<br>Type* | Kabel-<br>länge<br>Cable<br>length | Kabel<br>geschirmt<br>Cable<br>shielded | Kommentare<br>Comments |
|------------|-----------------------------|---------------|------------------------------------|-----------------------------------------|------------------------|
| 1          | Enclosure                   | N/E           | —                                  | —                                       | None                   |
| 2          | Main Supply (power adapter) | AC            | —                                  | —                                       | None                   |
| 3          | Main Supply (DUT)           | DC            | 200 cm                             | —                                       | USB                    |
| 4          | RJ45                        | I/O           | —                                  | —                                       | None                   |

\* AC = AC Power Port  
DC = DC Power Port  
N/E = Non-Electrical  
I/O = Signal Input or Output Port (Not Involved in Process Control)  
TP = Telecommunication Ports

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**36 Interne Betriebsfrequenzen**  
**Internal operating frequencies**

| Nr.<br>No. | Frequenz<br>Frequency | Beschreibung<br>Description |
|------------|-----------------------|-----------------------------|
|------------|-----------------------|-----------------------------|

|   |                  |      |
|---|------------------|------|
| 1 | f= 902 – 928 MHz | LoRa |
|---|------------------|------|

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz)                           |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Below 1.705.....                                                                                 | 30                                                                   |
| 1.705–108 .....                                                                                  | 1000                                                                 |
| 108–500 .....                                                                                    | 2000                                                                 |
| 500–1000 .....                                                                                   | 5000                                                                 |
| Above 1000 .....                                                                                 | 5th harmonic of the highest frequency or 40 GHz, whichever is lower. |

**37 Betriebsarten**  
**Operating modes**

The EUT has been connected with peripherals pursuant ANSI C63.4 and was operated in a configuration to maximize its emission characteristics in a typical application.

| Nr.<br>No. | Beschreibung<br>Description |
|------------|-----------------------------|
|------------|-----------------------------|

|   |                                                                                             |
|---|---------------------------------------------------------------------------------------------|
| 1 | Ein / On (EUT is turned on in receive mode, Ethernet port active, Supply voltage 120V/60Hz) |
|---|---------------------------------------------------------------------------------------------|

|   |                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------|
| 2 | Ein / On 240V/50Hz (EUT is turned on in receive mode, Ethernet port active, Supply voltage 240V/50Hz ) |
|---|--------------------------------------------------------------------------------------------------------|

Detaillierte Informationen finden Sie im entsprechenden Protokoll. / For details see the corresponding protocol

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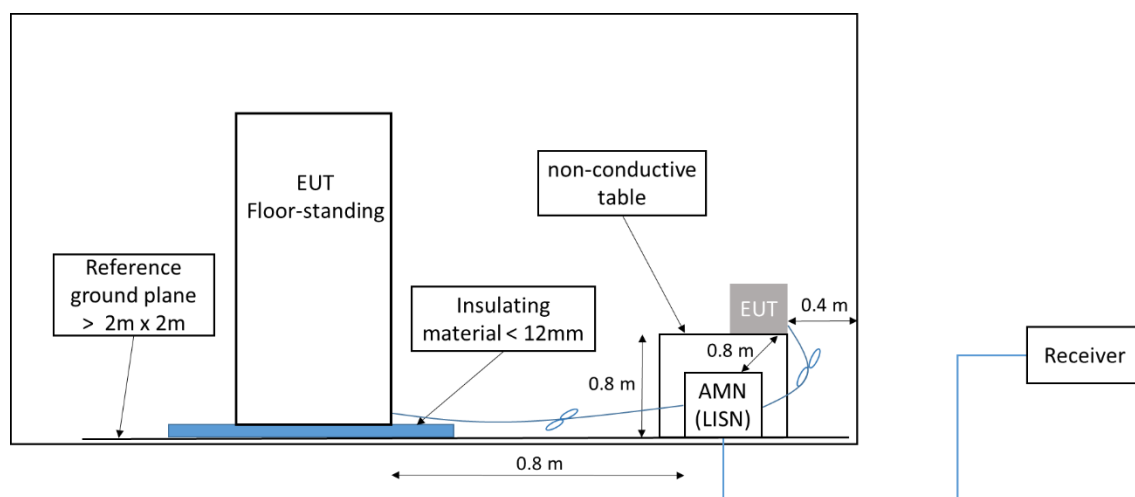
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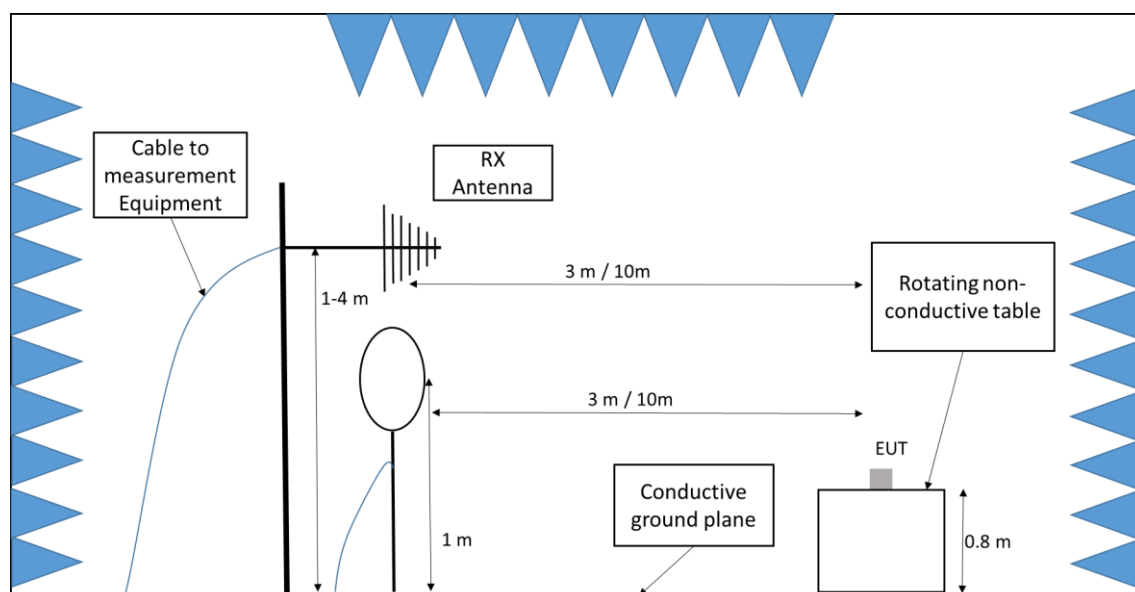
|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>38</b> | <p><b>Besondere EMV-Massnahmen</b><br/><i>Special EMC measures</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|           | <p><b>EMV-Maßnahmen zur Erfüllung der Emissionsanforderungen</b><br/><i>EMC measures to fulfill emission requirements</i></p> <ul style="list-style-type: none"> <li>- Keine / none</li> </ul> <p><b>EMV-Maßnahmen zur Erfüllung der Störfestigkeitsanforderungen</b><br/><i>EMC measures to fulfill immunity requirements</i></p> <ul style="list-style-type: none"> <li>- Keine / none</li> </ul> <p><b>Weitere EMV-Maßnahmen</b><br/><i>Further EMC measures</i></p> <ul style="list-style-type: none"> <li>- Keine / none</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>39</b> | <p><b>Prüfaufbau</b><br/><i>EUT configuration</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|           | <p>Der Prüfaufbau erfolgte entsprechend den Angaben der genannten EMV-Normen.</p> <p>Die Messungen und Tests wurden unter "worst case"-Bedingungen durchgeführt, d.h. es wurden typische Anordnungen und Betriebszustände gewählt bzw. angenommen, die maximale Störaussendung und Störempfindlichkeit vermuten lassen (sogenannte "Ungünstigste Konfiguration").</p> <p>Einzelheiten der Geräteeinstellungen sind u.a. der Fotodokumentation zu entnehmen.</p> <p>Soweit nicht anders angegeben, gelten diese Angaben für alle nachfolgenden Messungen.</p> <p><i>The test setup was made in accordance with mentioned EMC standards.</i></p> <p><i>Measurements and tests were executed under "worst case" conditions. Typical EUT arrangements or operating modes were chosen or assumed which let suspect maximum emission or susceptibility (a so called "unfavourable configuration").</i></p> <p><i>Details of test setup or adjustments are (particularly) shown inside the photo documentation.</i></p> <p><i>Unless otherwise stated, these statements apply to all subsequent tests.</i></p> |

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### 40 Leitungsgelungene Störemissionen Conducted emission (9kHz – 30 MHz) acc. ANSI C63.4



### 41 Gestrahlte Störaussendungen Field strength measurement (9 kHz – 30 MHz) with loop antenna Field strength measurement (30 MHz – 1000 MHz) with log-per antenna acc. ANSI C63.4



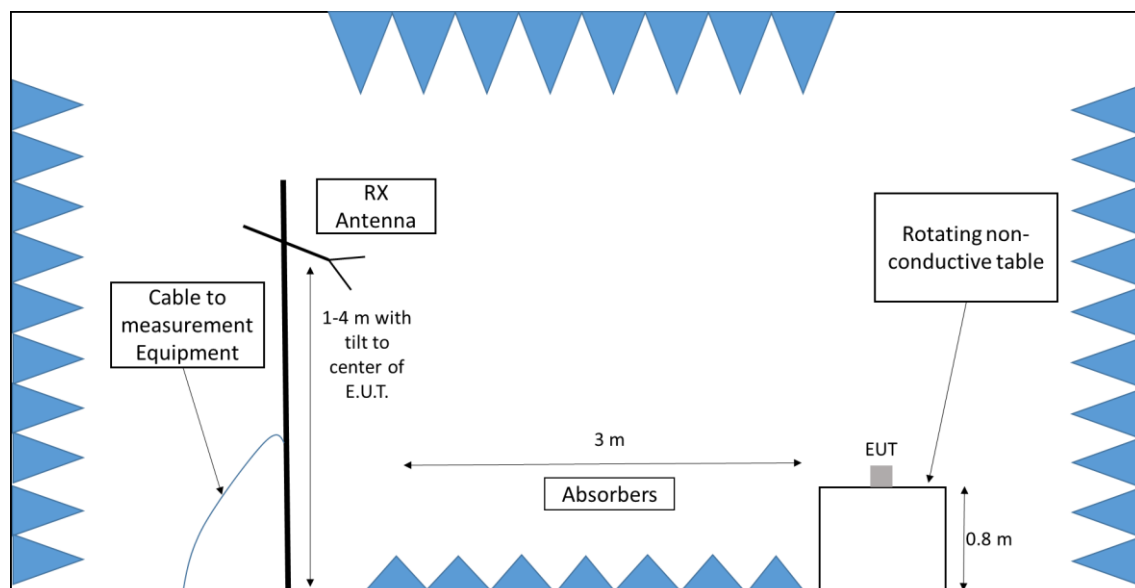
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**42 Gestrahlte Störaussendungen**

*Field strength measurement (>1 GHz) horn antenna acc. ANSI C63.4*



**43 Klimatische Bedingungen**

*Climatic conditions*

|                                                   |                 |
|---------------------------------------------------|-----------------|
| Umgebungstemperatur<br><i>Ambient Temperature</i> | 15 - 35 °C      |
| Relative Luftfeuchte<br><i>Relative Humidity</i>  | 30 - 60 %       |
| Luftdruck<br><i>Air pressure</i>                  | 860 - 1060 mbar |

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### 44 Aussage zur Messunsicherheit *Statement of the measurement uncertainty*

Die in diesem Dokument genannten Daten und Ergebnisse sind wahr und genau. Der Leser wird darauf hingewiesen, dass innerhalb der Kalibrierungsgrenzen der Geräte und Einrichtungen Fehler auftreten können. Die Messunsicherheit wurde für alle Prüfungen in diesem Prüfbericht gemäß CISPR 16-4 "Anforderungen an Geräte und Einrichtungen sowie Festlegung der Verfahren zur Messung der hochfrequenten Störaussendung (Funkstörungen) und Störfestigkeit – Teil 4-2: Unsicherheiten, Statistik und Modelle zur Ableitung von Grenzwerten (Störmodell) – Messgeräte-Unsicherheit" berechnet und ist im Qualitätssicherungssystem gemäß ISO / IEC 17025 dokumentiert. Darüber hinaus können Veränderungen bei den Bauteilen und im Herstellungsprozess zu einer zusätzlichen Abweichung führen.

Der Hersteller ist alleine verantwortlich dafür, dass zukünftige Geräte die einschlägigen Normen und Standards einhalten.

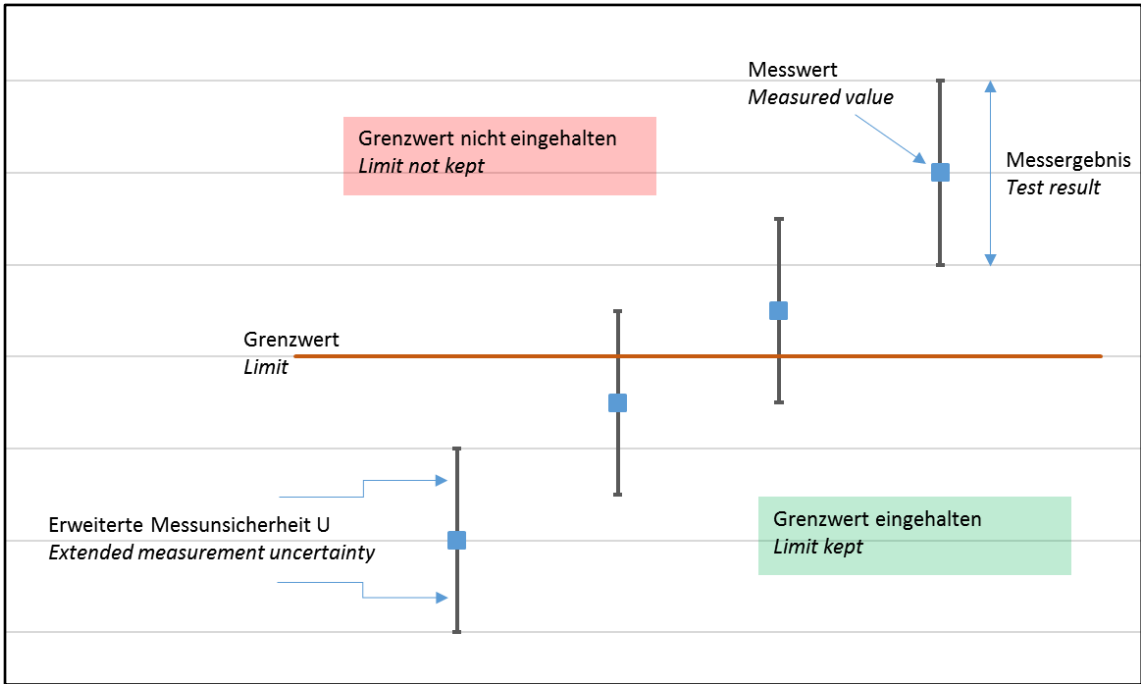
*The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16-4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the quality system acc. to ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation.*

*The manufacturer has the sole responsibility of continued compliance of the device.*

| Measurement procedure                                                                                                       | U <sub>Lab</sub> |
|-----------------------------------------------------------------------------------------------------------------------------|------------------|
| Measurement of conducted emissions at the power supply connection to LISN in the frequency range 9 kHz – 150 kHz            | 2.3 dB           |
| Measurement of conducted emissions at the power supply connection to LISN in the frequency range 150 kHz – 30 MHz           | 2.2 dB           |
| Measurement of conducted emissions at the power supply connection with voltage probes in the frequency range 9 kHz – 30 MHz | 2.0 dB           |
| Measurement of the magnetic field strength in the frequency range 9 kHz – 30 MHz in 3 m/10 m distance                       | 1.6 dB           |
| Measurement of the field strength in the frequency range 30 MHz – 1000 MHz in 3 m/10 m distance                             | 4.5 dB           |
| Measurement of the field strength in the frequency range 1 GHz – 6 GHz in 3 m distance                                      | 5.0 dB           |
| Measurement of the field strength in the frequency range 6 GHz – 40 GHz in 3 m distance                                     | 5.3 dB           |

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45 Beispiel zur Interpretation von Messergebnissen  
 Example for interpretation of measuring results



| Messwert<br>Measured value | Grenzwert<br>Limit | Erweiterte Messunsicherheit<br>Extended measurement uncertainty<br>(k=2) | Messergebnis<br>Test result |
|----------------------------|--------------------|--------------------------------------------------------------------------|-----------------------------|
| 48.9 dBµV @ 16.5 MHz       | 50 dBµV            | 2.2 dB                                                                   | 46.7 dBµV – 51.1 dBµV       |

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|                                                        |                                  |
|--------------------------------------------------------|----------------------------------|
| <b>Protokollnummer</b><br>Protocol number              | <a href="#"><u>1271</u></a>      |
| <b>Funkstörspannung</b><br>Conducted voltage emissions | <b>PASS</b>                      |
| <b>Datum des Tests</b><br>Test date                    | 28.10.2021                       |
| <b>Angewendete Norm</b><br>Applied Standard            | FCC Part 15 Subpart B            |
| <b>Prüfmethode</b><br>Test method                      | ANSI C63.4-2014                  |
| <b>Temperatur (°C)</b><br>Temperature                  | 14 - 25                          |
| <b>Luftfeuchte (% rH)</b><br>Humidity                  | 30 - 60                          |
| <b>Luftdruck (mbar)</b><br>Air pressure                | 860 - 1060                       |
| <b>Bearbeiter</b><br>Tested by                         | A. Bustati                       |
| <b>Modellbezeichnung</b><br>Model                      | Wirnet iZeptocell PDTIOT-IZEE900 |
| <b>Prüfmuster-Nr.</b><br>Test sample No.:              | A003136187-007                   |
| <b>Betriebsart</b><br>Operating mode                   | Ein / On                         |
| <b>Anschlüsse</b><br>Tested terminals                  | Netzleitung / Supply line        |
| <b>Bemerkung</b><br>Remarks                            | —                                |
| <b>Prüfsoftware</b><br>Testing software                | 2021.0.15.1                      |

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**Verwendete Prüfmittel**  
*Used test equipment*

| Typ                                     | Hersteller<br><i>Manufacturer</i> | Modell  | ID      | Kalibriert am<br><i>Last calibration</i> | Kalibriert bis<br><i>Next calibration</i> |
|-----------------------------------------|-----------------------------------|---------|---------|------------------------------------------|-------------------------------------------|
| Impulsbegrenzer 10 dB<br><i>Limitor</i> | Rohde & Schwarz                   | ESH3-Z2 | 2732546 | 11.02.2021                               | 11.02.2023                                |
| Netznachbildung<br><i>LISN</i>          | Rohde & Schwarz                   | ESH2-Z5 | 2731908 | 23.06.2021                               | 23.06.2024                                |
| Messempfänger<br><i>Receiver</i>        | Rohde & Schwarz                   | ESU 26  | 2723865 | 10.09.2021                               | 10.09.2022                                |
| Schirmkabine<br><i>Shielded room</i>    | TDK                               | SR 2    | —       | —                                        | —                                         |

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**Prüfparameter zu Funkstörspannung**

**#1271**

*Test parameter of Conducted voltage emissions*

Conducted voltage emissions, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 150kHz                                  | 30MHz                                 | 3kHz                                  | Phase 1                      | 10 ms                              | 9kHz                                 |

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 150kHz                                  | 30MHz                                 | 3kHz                                  | Neutral                      | 10 ms                              | 9kHz                                 |

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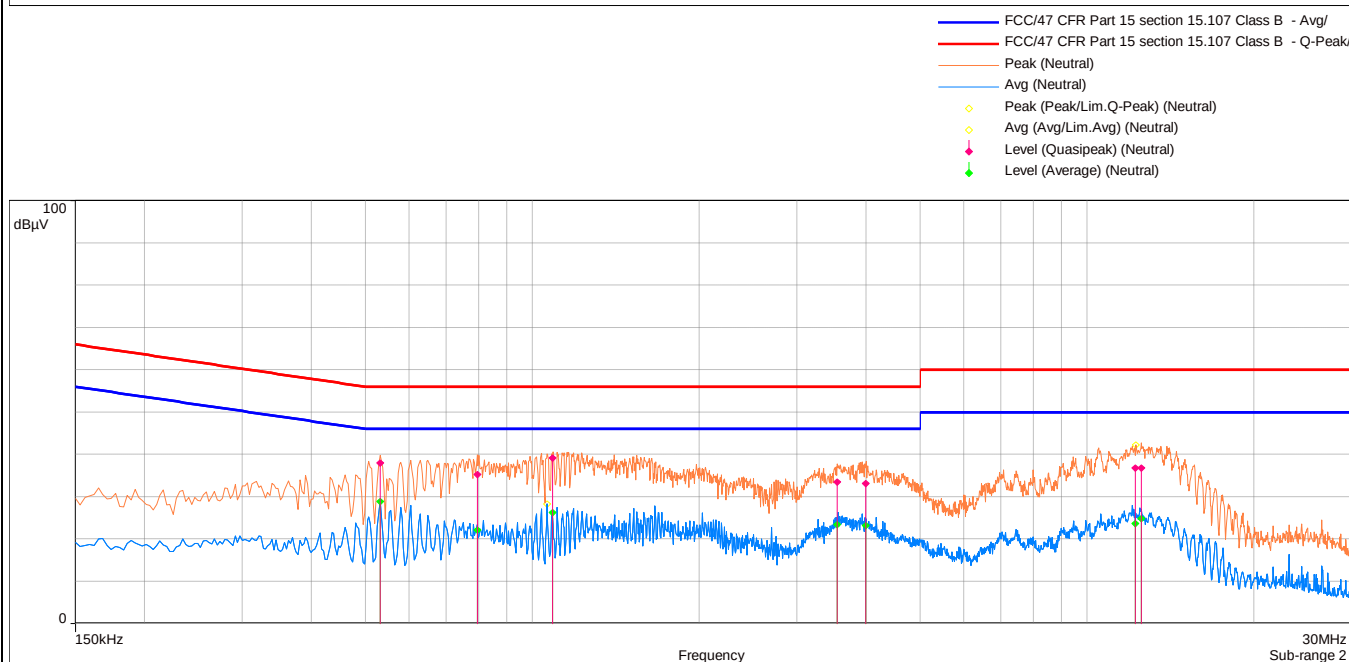
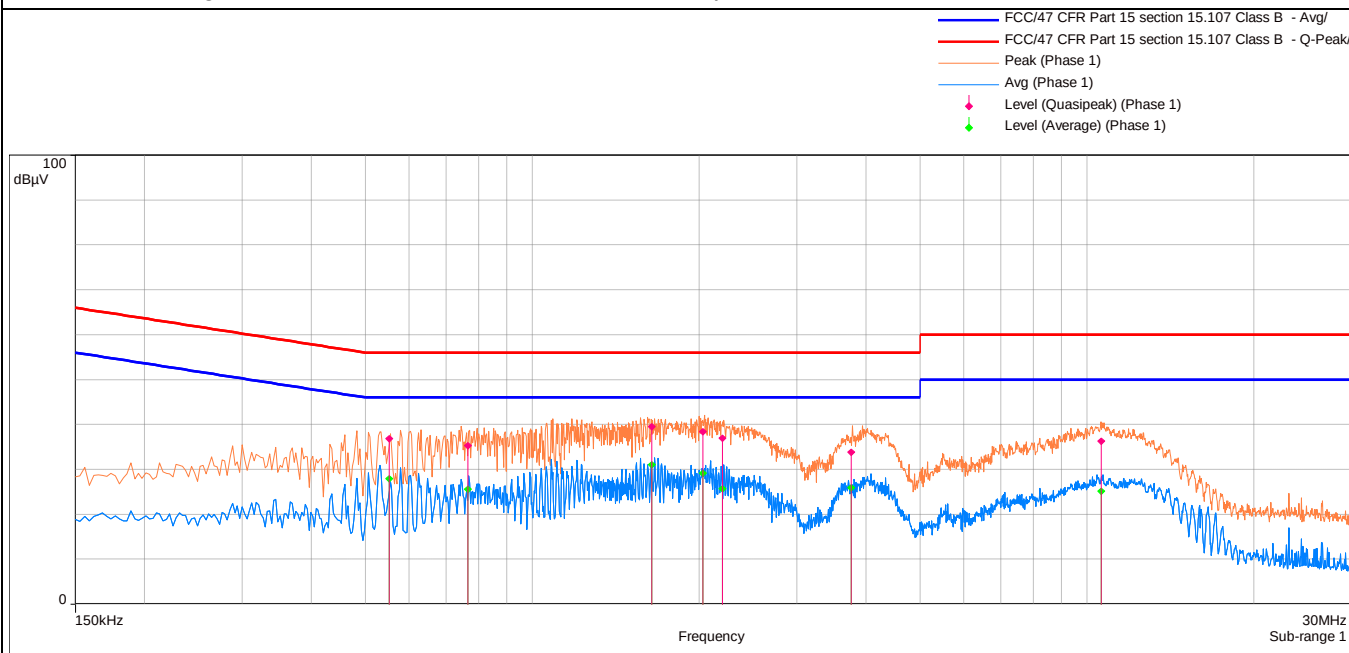
## ZUSATZDOKUMENTATION ADDITIONAL DOCUMENTATION

### Messdiagramme zu Funkstörspannung

#1271

Graphical presentation of Conducted voltage emissions

Conducted voltage emissions, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900



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**Messdaten zu Funkstörspannung**

**#1271**

Measurement data of Conducted voltage emissions

Conducted voltage emissions, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

**Average (14)**

| Frequency (MHz) | SR | Level (dBµV) | Limit (dBµV) | Margin (dB) | Pos     | Meas.Time (s) | Comments | Correction (dB) |
|-----------------|----|--------------|--------------|-------------|---------|---------------|----------|-----------------|
| 0.5535          | 1  | 27.94        | 46.00        | -18.06      | Phase 1 | 1.00          | Pass     | 10.05           |
| 0.76425         | 1  | 25.63        | 46.00        | -20.37      | Phase 1 | 1.00          | Pass     | 10.07           |
| 1.6395          | 1  | 31.13        | 46.00        | -14.87      | Phase 1 | 1.00          | Pass     | 10.15           |
| 2.028           | 1  | 29.26        | 46.00        | -16.74      | Phase 1 | 1.00          | Pass     | 10.15           |
| 2.20275         | 1  | 25.71        | 46.00        | -20.29      | Phase 1 | 1.00          | Pass     | 10.15           |
| 3.7575          | 1  | 26.00        | 46.00        | -20.00      | Phase 1 | 1.00          | Pass     | 10.16           |
| 10.60875        | 1  | 25.26        | 50.00        | -24.74      | Phase 1 | 1.00          | Pass     | 10.20           |
| 0.531           | 2  | 28.88        | 46.00        | -17.12      | Neutral | 1.00          | Pass     | 10.05           |
| 0.795           | 2  | 22.16        | 46.00        | -23.84      | Neutral | 1.00          | Pass     | 10.05           |
| 1.0845          | 2  | 26.32        | 46.00        | -19.68      | Neutral | 1.00          | Pass     | 10.05           |
| 3.54075         | 2  | 23.41        | 46.00        | -22.59      | Neutral | 1.00          | Pass     | 10.16           |
| 3.99            | 2  | 23.18        | 46.00        | -22.82      | Neutral | 1.00          | Pass     | 10.16           |
| 12.2205         | 2  | 23.71        | 50.00        | -26.29      | Neutral | 1.00          | Pass     | 10.32           |
| 12.53325        | 2  | 24.87        | 50.00        | -25.13      | Neutral | 1.00          | Pass     | 10.34           |

**Quasipeak (14)**

| Frequency (MHz) | SR | Level (dBµV) | Limit (dBµV) | Margin (dB) | Pos     | Meas.Time (s) | Comments | Correction (dB) |
|-----------------|----|--------------|--------------|-------------|---------|---------------|----------|-----------------|
| 0.5535          | 1  | 36.91        | 56.00        | -19.09      | Phase 1 | 1.00          | Pass     | 10.05           |
| 0.76425         | 1  | 35.36        | 56.00        | -20.64      | Phase 1 | 1.00          | Pass     | 10.07           |
| 1.6395          | 1  | 39.54        | 56.00        | -16.46      | Phase 1 | 1.00          | Pass     | 10.15           |
| 2.028           | 1  | 38.47        | 56.00        | -17.53      | Phase 1 | 1.00          | Pass     | 10.15           |
| 2.20275         | 1  | 36.97        | 56.00        | -19.03      | Phase 1 | 1.00          | Pass     | 10.15           |
| 3.7575          | 1  | 33.92        | 56.00        | -22.08      | Phase 1 | 1.00          | Pass     | 10.16           |
| 10.60875        | 1  | 36.35        | 60.00        | -23.65      | Phase 1 | 1.00          | Pass     | 10.20           |
| 0.531           | 2  | 37.98        | 56.00        | -18.02      | Neutral | 1.00          | Pass     | 10.05           |
| 0.795           | 2  | 35.28        | 56.00        | -20.72      | Neutral | 1.00          | Pass     | 10.05           |
| 1.0845          | 2  | 39.18        | 56.00        | -16.82      | Neutral | 1.00          | Pass     | 10.05           |
| 3.54075         | 2  | 33.52        | 56.00        | -22.48      | Neutral | 1.00          | Pass     | 10.16           |
| 3.99            | 2  | 33.10        | 56.00        | -22.90      | Neutral | 1.00          | Pass     | 10.16           |
| 12.2205         | 2  | 36.86        | 60.00        | -23.14      | Neutral | 1.00          | Pass     | 10.32           |
| 12.53325        | 2  | 36.80        | 60.00        | -23.20      | Neutral | 1.00          | Pass     | 10.34           |

**Bemerkungen / Remarks:**

Margin value = Measurement value – Limit value

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|                                                        |                                  |
|--------------------------------------------------------|----------------------------------|
| <b>Protokollnummer</b><br>Protocol number              | <a href="#"><u>1284</u></a>      |
| <b>Funkstörspannung</b><br>Conducted voltage emissions | <b>PASS</b>                      |
| <b>Datum des Tests</b><br>Test date                    | 28.10.2021                       |
| <b>Angewendete Norm</b><br>Applied Standard            | ICES-003:2020 (Issue 7)          |
| <b>Prüfmethode</b><br>Test method                      | ANSI C63.4-2014                  |
| <b>Temperatur (°C)</b><br>Temperature                  | 14 - 25                          |
| <b>Luftfeuchte (% rH)</b><br>Humidity                  | 30 - 60                          |
| <b>Luftdruck (mbar)</b><br>Air pressure                | 860 - 1060                       |
| <b>Bearbeiter</b><br>Tested by                         | A. Bustati                       |
| <b>Modellbezeichnung</b><br>Model                      | Wirnet iZeptocell PDTIOT-IZEE900 |
| <b>Prüfmuster-Nr.</b><br>Test sample No.:              | A003136187-007                   |
| <b>Betriebsart</b><br>Operating mode                   | Ein / On                         |
| <b>Anschlüsse</b><br>Tested terminals                  | Netzleitung / Supply line        |
| <b>Bemerkung</b><br>Remarks                            | —                                |
| <b>Prüfsoftware</b><br>Testing software                | 2021.0.15.1                      |

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**Verwendete Prüfmittel**  
*Used test equipment*

| Typ                                     | Hersteller<br><i>Manufacturer</i> | Modell  | ID      | Kalibriert am<br><i>Last calibration</i> | Kalibriert bis<br><i>Next calibration</i> |
|-----------------------------------------|-----------------------------------|---------|---------|------------------------------------------|-------------------------------------------|
| Impulsbegrenzer 10 dB<br><i>Limitor</i> | Rohde & Schwarz                   | ESH3-Z2 | 2732546 | 11.02.2021                               | 11.02.2023                                |
| Netznachbildung<br><i>LISN</i>          | Rohde & Schwarz                   | ESH2-Z5 | 2731908 | 23.06.2021                               | 23.06.2024                                |
| Messempfänger<br><i>Receiver</i>        | Rohde & Schwarz                   | ESU 26  | 2723865 | 10.09.2021                               | 10.09.2022                                |
| Schirmkabine<br><i>Shielded room</i>    | TDK                               | SR 2    | —       | —                                        | —                                         |

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**Prüfparameter zu Funkstörspannung**

**#1284**

*Test parameter of Conducted voltage emissions*

Conducted voltage emissions, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 150kHz                                  | 30MHz                                 | 3kHz                                  | Phase 1                      | 10 ms                              | 9kHz                                 |

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 150kHz                                  | 30MHz                                 | 3kHz                                  | Neutral                      | 10 ms                              | 9kHz                                 |

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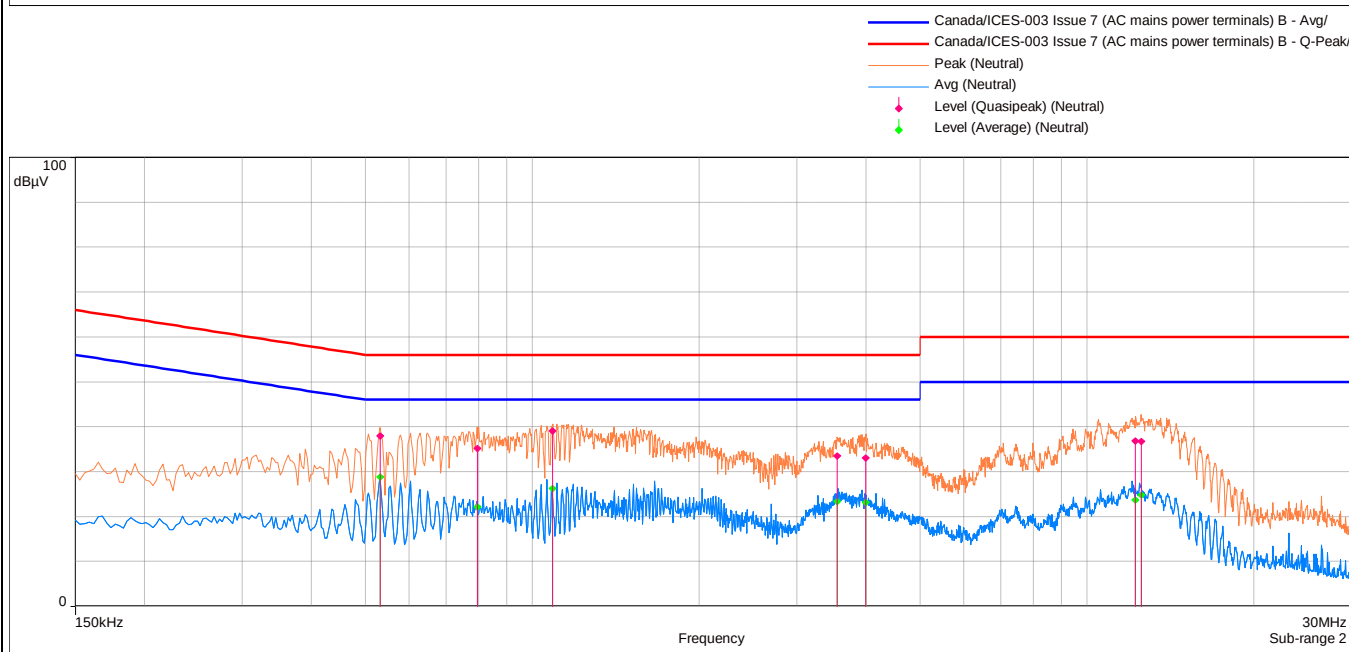
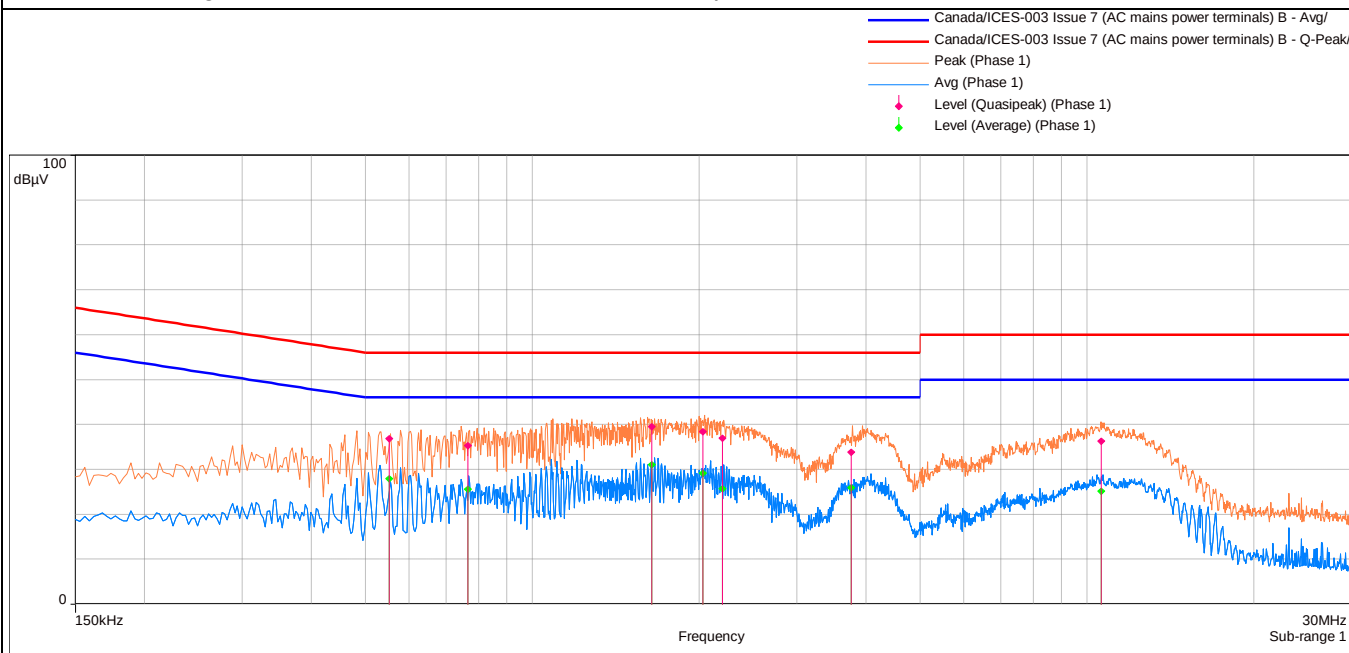
## ZUSATZDOKUMENTATION ADDITIONAL DOCUMENTATION

### Messdiagramme zu Funkstörspannung

#1284

Graphical presentation of Conducted voltage emissions

Conducted voltage emissions, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900



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**Messdaten zu Funkstörspannung**

**#1284**

Measurement data of Conducted voltage emissions

Conducted voltage emissions, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

Average (14)

| Frequency (MHz) | SR | Level (dBµV) | Limit (dBµV) | Margin (dB) | Pos     | Meas.Time (s) | Comments | Correction (dB) |
|-----------------|----|--------------|--------------|-------------|---------|---------------|----------|-----------------|
| 0.5535          | 1  | 27.94        | 46.00        | -18.06      | Phase 1 | 1.00          | Pass     | 10.05           |
| 0.76425         | 1  | 25.63        | 46.00        | -20.37      | Phase 1 | 1.00          | Pass     | 10.07           |
| 1.6395          | 1  | 31.13        | 46.00        | -14.87      | Phase 1 | 1.00          | Pass     | 10.15           |
| 2.028           | 1  | 29.26        | 46.00        | -16.74      | Phase 1 | 1.00          | Pass     | 10.15           |
| 2.20275         | 1  | 25.71        | 46.00        | -20.29      | Phase 1 | 1.00          | Pass     | 10.15           |
| 3.7575          | 1  | 26.00        | 46.00        | -20.00      | Phase 1 | 1.00          | Pass     | 10.16           |
| 10.60875        | 1  | 25.26        | 50.00        | -24.74      | Phase 1 | 1.00          | Pass     | 10.20           |
| 0.531           | 2  | 28.88        | 46.00        | -17.12      | Neutral | 1.00          | Pass     | 10.05           |
| 0.795           | 2  | 22.16        | 46.00        | -23.84      | Neutral | 1.00          | Pass     | 10.05           |
| 1.0845          | 2  | 26.32        | 46.00        | -19.68      | Neutral | 1.00          | Pass     | 10.05           |
| 3.54075         | 2  | 23.41        | 46.00        | -22.59      | Neutral | 1.00          | Pass     | 10.16           |
| 3.99            | 2  | 23.18        | 46.00        | -22.82      | Neutral | 1.00          | Pass     | 10.16           |
| 12.2205         | 2  | 23.71        | 50.00        | -26.29      | Neutral | 1.00          | Pass     | 10.32           |
| 12.53325        | 2  | 24.87        | 50.00        | -25.13      | Neutral | 1.00          | Pass     | 10.34           |

Quasipeak (14)

| Frequency (MHz) | SR | Level (dBµV) | Limit (dBµV) | Margin (dB) | Pos     | Meas.Time (s) | Comments | Correction (dB) |
|-----------------|----|--------------|--------------|-------------|---------|---------------|----------|-----------------|
| 0.5535          | 1  | 36.91        | 56.00        | -19.09      | Phase 1 | 1.00          | Pass     | 10.05           |
| 0.76425         | 1  | 35.36        | 56.00        | -20.64      | Phase 1 | 1.00          | Pass     | 10.07           |
| 1.6395          | 1  | 39.54        | 56.00        | -16.46      | Phase 1 | 1.00          | Pass     | 10.15           |
| 2.028           | 1  | 38.47        | 56.00        | -17.53      | Phase 1 | 1.00          | Pass     | 10.15           |
| 2.20275         | 1  | 36.97        | 56.00        | -19.03      | Phase 1 | 1.00          | Pass     | 10.15           |
| 3.7575          | 1  | 33.92        | 56.00        | -22.08      | Phase 1 | 1.00          | Pass     | 10.16           |
| 10.60875        | 1  | 36.35        | 60.00        | -23.65      | Phase 1 | 1.00          | Pass     | 10.20           |
| 0.531           | 2  | 37.98        | 56.00        | -18.02      | Neutral | 1.00          | Pass     | 10.05           |
| 0.795           | 2  | 35.28        | 56.00        | -20.72      | Neutral | 1.00          | Pass     | 10.05           |
| 1.0845          | 2  | 39.18        | 56.00        | -16.82      | Neutral | 1.00          | Pass     | 10.05           |
| 3.54075         | 2  | 33.52        | 56.00        | -22.48      | Neutral | 1.00          | Pass     | 10.16           |
| 3.99            | 2  | 33.10        | 56.00        | -22.90      | Neutral | 1.00          | Pass     | 10.16           |
| 12.2205         | 2  | 36.86        | 60.00        | -23.14      | Neutral | 1.00          | Pass     | 10.32           |
| 12.53325        | 2  | 36.80        | 60.00        | -23.20      | Neutral | 1.00          | Pass     | 10.34           |

Bemerkungen / Remarks:

Margin value = Measurement value – Limit value

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|----------------------------------------------------------------------------|----------------------------------|
| <b>Protokollnummer</b><br>Protocol number                                  | <a href="#"><u>1285</u></a>      |
| <b>Funkstörspannung 240V/50Hz</b><br>Conducted voltage emissions 240V/50Hz | <b>PASS</b>                      |
| <b>Datum des Tests</b><br>Test date                                        | 17.11.2021                       |
| <b>Angewendete Norm</b><br>Applied Standard                                | FCC Part 15 Subpart B            |
| <b>Prüfmethode</b><br>Test method                                          | ANSI C63.4-2014                  |
| <b>Temperatur (°C)</b><br>Temperature                                      | 14 - 25                          |
| <b>Luftfeuchte (% rH)</b><br>Humidity                                      | 30 - 60                          |
| <b>Luftdruck (mbar)</b><br>Air pressure                                    | 860 - 1060                       |
| <b>Bearbeiter</b><br>Tested by                                             | A. Bustati                       |
| <b>Modellbezeichnung</b><br>Model                                          | Wirnet iZeptocell PDTIOT-IZEE900 |
| <b>Prüfmuster-Nr.</b><br>Test sample No.:                                  | A003136187-007                   |
| <b>Betriebsart</b><br>Operating mode                                       | Ein / On 240V/50Hz               |
| <b>Anschlüsse</b><br>Tested terminals                                      | Netzleitung / Supply line        |
| <b>Bemerkung</b><br>Remarks                                                | —                                |
| <b>Prüfsoftware</b><br>Testing software                                    | 2021.0.15.1                      |

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**Verwendete Prüfmittel**  
*Used test equipment*

| Typ                                     | Hersteller<br><i>Manufacturer</i> | Modell  | ID      | Kalibriert am<br><i>Last calibration</i> | Kalibriert bis<br><i>Next calibration</i> |
|-----------------------------------------|-----------------------------------|---------|---------|------------------------------------------|-------------------------------------------|
| Impulsbegrenzer 10 dB<br><i>Limitor</i> | Rohde & Schwarz                   | ESH3-Z2 | 2732546 | 11.02.2021                               | 11.02.2023                                |
| Netznachbildung<br><i>LISN</i>          | Rohde & Schwarz                   | ESH2-Z5 | 2731908 | 23.06.2021                               | 23.06.2024                                |
| Messempfänger<br><i>Receiver</i>        | Rohde & Schwarz                   | ESU 26  | 2723865 | 10.09.2021                               | 10.09.2022                                |
| Schirmkabine<br><i>Shielded room</i>    | TDK                               | SR 2    | —       | —                                        | —                                         |

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**Prüfparameter zu Funkstörspannung**

**#1285**

*Test parameter of Conducted voltage emissions*

Conducted voltage emissions 240V/50Hz, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 150kHz                                  | 30MHz                                 | 3kHz                                  | Phase 1                      | 10 ms                              | 9kHz                                 |

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 150kHz                                  | 30MHz                                 | 3kHz                                  | Neutral                      | 10 ms                              | 9kHz                                 |

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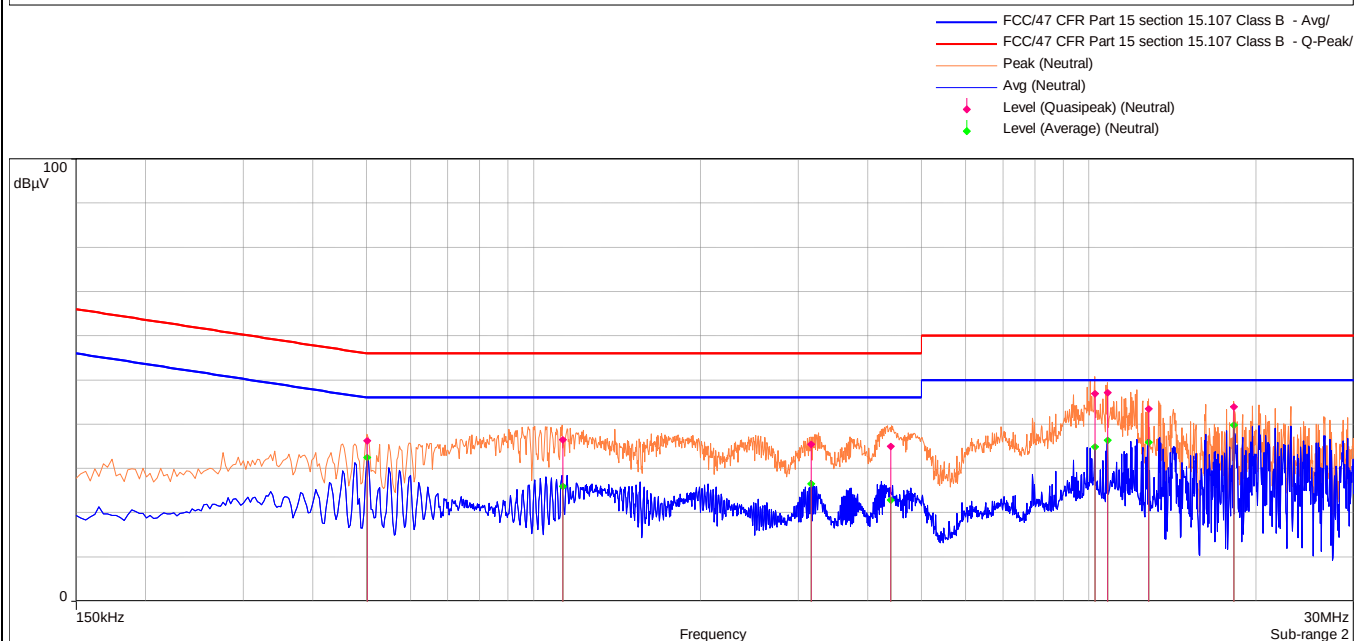
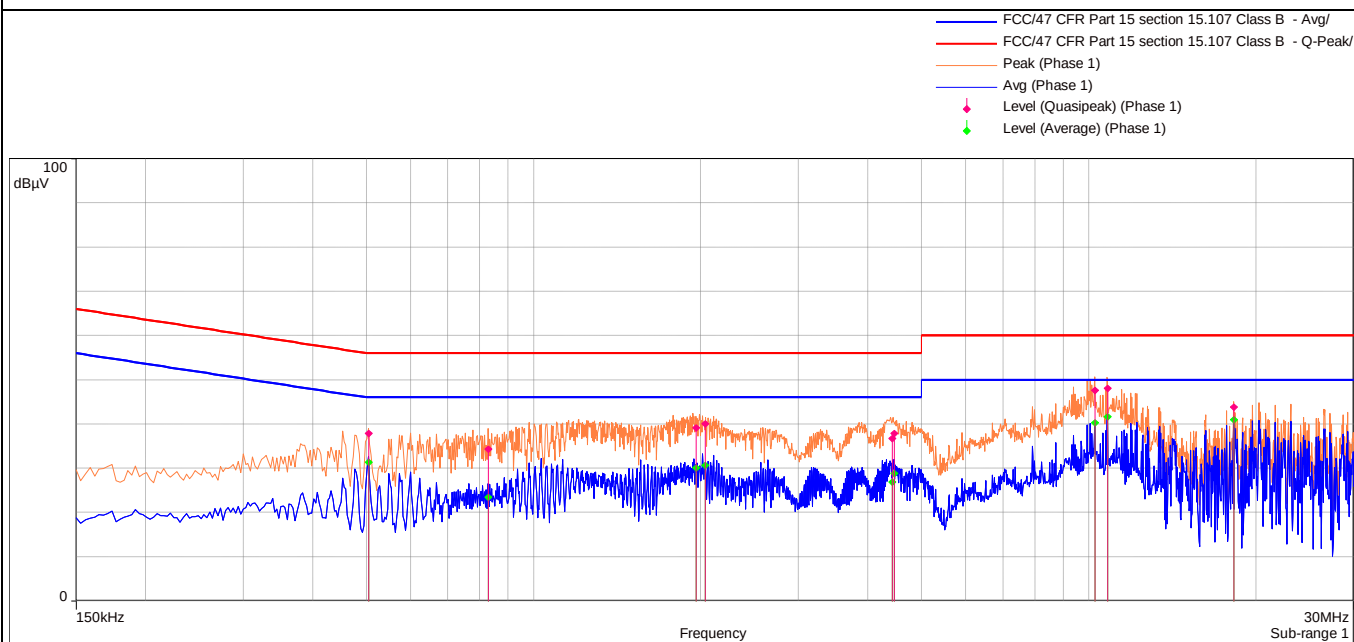
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### Messdiagramme zu Funkstörspannung

#1285

Graphical presentation of Conducted voltage emissions

Conducted voltage emissions 240V/50Hz, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900



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**Messdaten zu Funkstörspannung**

**#1285**

Measurement data of Conducted voltage emissions

Conducted voltage emissions 240V/50Hz, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

Average (17)

| Frequency (MHz) | SR | Level (dBµV) | Limit (dBµV) | Margin (dB) | Pos     | Meas.Time (s) | Correction (dB) |
|-----------------|----|--------------|--------------|-------------|---------|---------------|-----------------|
| 0.504           | 1  | 31.45        | 46.00        | -14.55      | Phase 1 | 1.00          | 10.05           |
| 0.828           | 1  | 23.45        | 46.00        | -22.55      | Phase 1 | 1.00          | 10.09           |
| 1.9605          | 1  | 30.10        | 46.00        | -15.90      | Phase 1 | 1.00          | 10.15           |
| 2.0355          | 1  | 30.71        | 46.00        | -15.29      | Phase 1 | 1.00          | 10.15           |
| 4.41975         | 1  | 26.89        | 46.00        | -19.11      | Phase 1 | 1.00          | 10.16           |
| 4.458           | 1  | 28.88        | 46.00        | -17.12      | Phase 1 | 1.00          | 10.16           |
| 10.242          | 1  | 40.37        | 50.00        | -9.63       | Phase 1 | 1.00          | 10.20           |
| 10.794          | 1  | 41.76        | 50.00        | -8.24       | Phase 1 | 1.00          | 10.20           |
| 18.243          | 1  | 41.05        | 50.00        | -8.95       | Phase 1 | 1.00          | 10.35           |
| 0.501           | 2  | 32.59        | 46.00        | -13.41      | Neutral | 1.00          | 10.05           |
| 1.12725         | 2  | 25.98        | 46.00        | -20.02      | Neutral | 1.00          | 10.06           |
| 3.159           | 2  | 26.59        | 46.00        | -19.41      | Neutral | 1.00          | 10.15           |
| 4.3935          | 2  | 22.90        | 46.00        | -23.10      | Neutral | 1.00          | 10.16           |
| 10.24275        | 2  | 34.96        | 50.00        | -15.04      | Neutral | 1.00          | 10.30           |
| 10.794          | 2  | 36.38        | 50.00        | -13.62      | Neutral | 1.00          | 10.30           |
| 12.80775        | 2  | 36.00        | 50.00        | -14.00      | Neutral | 1.00          | 10.36           |
| 18.243          | 2  | 39.88        | 50.00        | -10.12      | Neutral | 1.00          | 10.45           |

Quasipeak (17)

| Frequency (MHz) | SR | Level (dBµV) | Limit (dBµV) | Margin (dB) | Pos     | Meas.Time (s) | Correction (dB) |
|-----------------|----|--------------|--------------|-------------|---------|---------------|-----------------|
| 0.504           | 1  | 37.89        | 56.00        | -18.11      | Phase 1 | 1.00          | 10.05           |
| 0.828           | 1  | 34.32        | 56.00        | -21.68      | Phase 1 | 1.00          | 10.09           |
| 1.9605          | 1  | 39.15        | 56.00        | -16.85      | Phase 1 | 1.00          | 10.15           |
| 2.0355          | 1  | 40.09        | 56.00        | -15.91      | Phase 1 | 1.00          | 10.15           |
| 4.41975         | 1  | 36.83        | 56.00        | -19.17      | Phase 1 | 1.00          | 10.16           |
| 4.458           | 1  | 37.91        | 56.00        | -18.09      | Phase 1 | 1.00          | 10.16           |
| 10.242          | 1  | 47.71        | 60.00        | -12.29      | Phase 1 | 1.00          | 10.20           |
| 10.794          | 1  | 48.16        | 60.00        | -11.84      | Phase 1 | 1.00          | 10.20           |
| 18.243          | 1  | 43.91        | 60.00        | -16.09      | Phase 1 | 1.00          | 10.35           |
| 0.501           | 2  | 36.34        | 56.00        | -19.66      | Neutral | 1.00          | 10.05           |
| 1.12725         | 2  | 36.53        | 56.00        | -19.47      | Neutral | 1.00          | 10.06           |
| 3.159           | 2  | 35.48        | 56.00        | -20.52      | Neutral | 1.00          | 10.15           |
| 4.3935          | 2  | 35.07        | 56.00        | -20.93      | Neutral | 1.00          | 10.16           |
| 10.24275        | 2  | 46.95        | 60.00        | -13.05      | Neutral | 1.00          | 10.30           |
| 10.794          | 2  | 47.15        | 60.00        | -12.85      | Neutral | 1.00          | 10.30           |
| 12.80775        | 2  | 43.54        | 60.00        | -16.46      | Neutral | 1.00          | 10.36           |
| 18.243          | 2  | 43.99        | 60.00        | -16.01      | Neutral | 1.00          | 10.45           |

Bemerkungen / Remarks:

Margin value = Measurement value – Limit value

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|                                                                            |                                  |
|----------------------------------------------------------------------------|----------------------------------|
| <b>Protokollnummer</b><br>Protocol number                                  | <a href="#"><u>1286</u></a>      |
| <b>Funkstörspannung 240V/50Hz</b><br>Conducted voltage emissions 240V/50Hz | <b>PASS</b>                      |
| <b>Datum des Tests</b><br>Test date                                        | 17.11.2021                       |
| <b>Angewendete Norm</b><br>Applied Standard                                | ICES-003:2020 (Issue 7)          |
| <b>Prüfmethode</b><br>Test method                                          | ANSI C63.4-2014                  |
| <b>Temperatur (°C)</b><br>Temperature                                      | 14 - 25                          |
| <b>Luftfeuchte (% rH)</b><br>Humidity                                      | 30 - 60                          |
| <b>Luftdruck (mbar)</b><br>Air pressure                                    | 860 - 1060                       |
| <b>Bearbeiter</b><br>Tested by                                             | A. Bustati                       |
| <b>Modellbezeichnung</b><br>Model                                          | Wirnet iZeptocell PDTIOT-IZEE900 |
| <b>Prüfmuster-Nr.</b><br>Test sample No.:                                  | A003136187-007                   |
| <b>Betriebsart</b><br>Operating mode                                       | Ein / On 240V/50Hz               |
| <b>Anschlüsse</b><br>Tested terminals                                      | Netzleitung / Supply line        |
| <b>Bemerkung</b><br>Remarks                                                | —                                |
| <b>Prüfsoftware</b><br>Testing software                                    | 2021.0.15.1                      |

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**Verwendete Prüfmittel**  
*Used test equipment*

| Typ                                     | Hersteller<br><i>Manufacturer</i> | Modell  | ID      | Kalibriert am<br><i>Last calibration</i> | Kalibriert bis<br><i>Next calibration</i> |
|-----------------------------------------|-----------------------------------|---------|---------|------------------------------------------|-------------------------------------------|
| Impulsbegrenzer 10 dB<br><i>Limitor</i> | Rohde & Schwarz                   | ESH3-Z2 | 2732546 | 11.02.2021                               | 11.02.2023                                |
| Netznachbildung<br><i>LISN</i>          | Rohde & Schwarz                   | ESH2-Z5 | 2731908 | 23.06.2021                               | 23.06.2024                                |
| Messempfänger<br><i>Receiver</i>        | Rohde & Schwarz                   | ESU 26  | 2723865 | 10.09.2021                               | 10.09.2022                                |
| Schirmkabine<br><i>Shielded room</i>    | TDK                               | SR 2    | —       | —                                        | —                                         |

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**Prüfparameter zu Funkstörspannung**

**#1286**

*Test parameter of Conducted voltage emissions*

Conducted voltage emissions 240V/50Hz, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 150kHz                                  | 30MHz                                 | 3kHz                                  | Phase 1                      | 10 ms                              | 9kHz                                 |

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 150kHz                                  | 30MHz                                 | 3kHz                                  | Neutral                      | 10 ms                              | 9kHz                                 |

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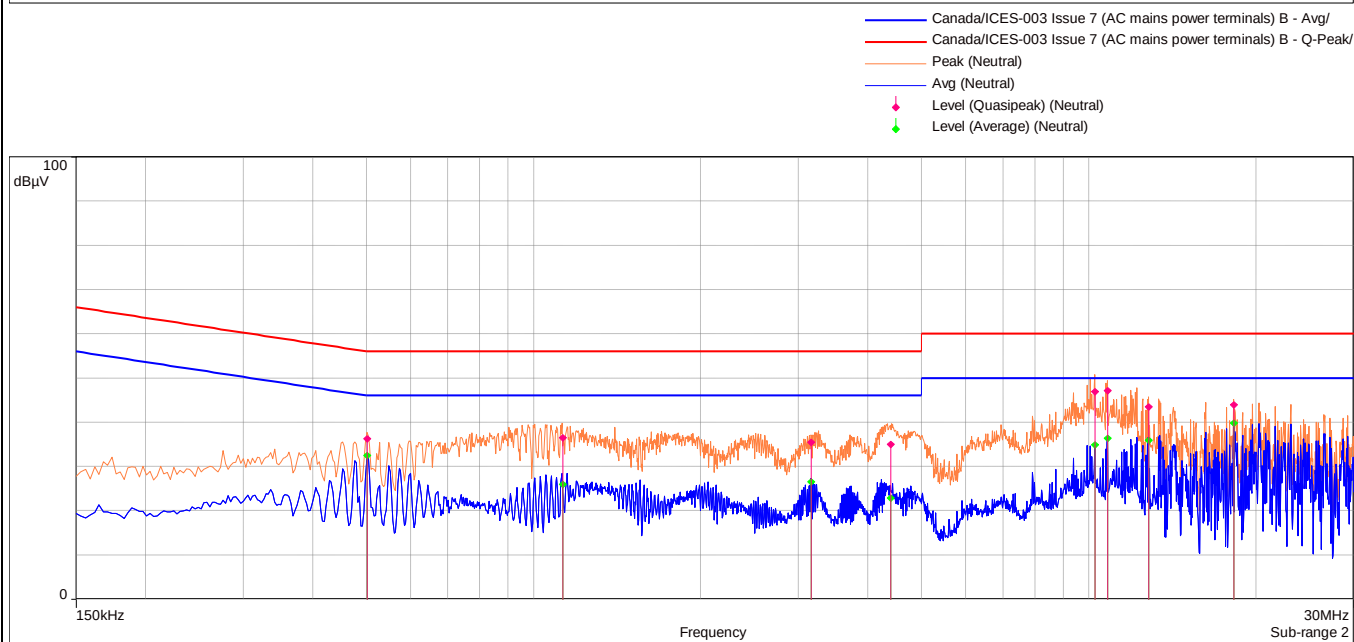
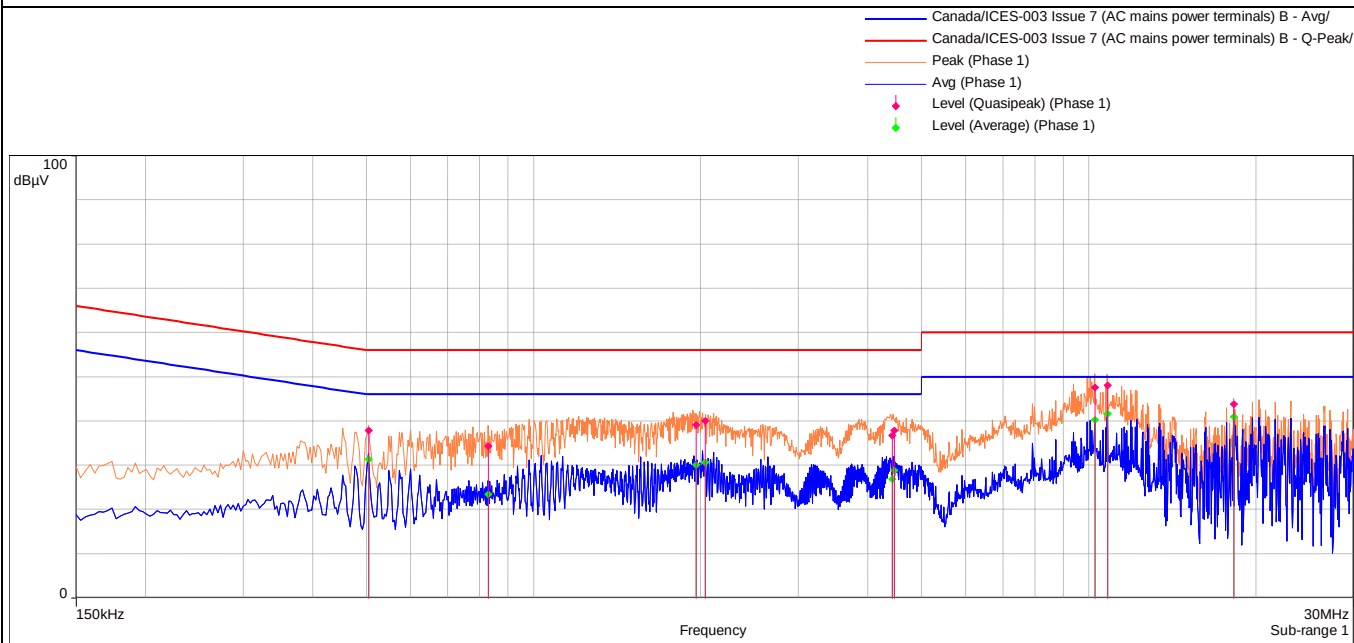
## ZUSATZDOKUMENTATION ADDITIONAL DOCUMENTATION

### Messdiagramme zu Funkstörspannung

#1286

Graphical presentation of Conducted voltage emissions

Conducted voltage emissions 240V/50Hz, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900



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**Messdaten zu Funkstörspannung**

**#1286**

Measurement data of Conducted voltage emissions

Conducted voltage emissions 240V/50Hz, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

Average (17)

| Frequency (MHz) | SR | Level (dBµV) | Limit (dBµV) | Margin (dB) | Pos     | Meas.Time (s) | Correction (dB) |
|-----------------|----|--------------|--------------|-------------|---------|---------------|-----------------|
| 0.504           | 1  | 31.45        | 46.00        | -14.55      | Phase 1 | 1.00          | 10.05           |
| 0.828           | 1  | 23.45        | 46.00        | -22.55      | Phase 1 | 1.00          | 10.09           |
| 1.9605          | 1  | 30.10        | 46.00        | -15.90      | Phase 1 | 1.00          | 10.15           |
| 2.0355          | 1  | 30.71        | 46.00        | -15.29      | Phase 1 | 1.00          | 10.15           |
| 4.41975         | 1  | 26.89        | 46.00        | -19.11      | Phase 1 | 1.00          | 10.16           |
| 4.458           | 1  | 28.88        | 46.00        | -17.12      | Phase 1 | 1.00          | 10.16           |
| 10.242          | 1  | 40.37        | 50.00        | -9.63       | Phase 1 | 1.00          | 10.20           |
| 10.794          | 1  | 41.76        | 50.00        | -8.24       | Phase 1 | 1.00          | 10.20           |
| 18.243          | 1  | 41.05        | 50.00        | -8.95       | Phase 1 | 1.00          | 10.35           |
| 0.501           | 2  | 32.59        | 46.00        | -13.41      | Neutral | 1.00          | 10.05           |
| 1.12725         | 2  | 25.98        | 46.00        | -20.02      | Neutral | 1.00          | 10.06           |
| 3.159           | 2  | 26.59        | 46.00        | -19.41      | Neutral | 1.00          | 10.15           |
| 4.3935          | 2  | 22.90        | 46.00        | -23.10      | Neutral | 1.00          | 10.16           |
| 10.24275        | 2  | 34.96        | 50.00        | -15.04      | Neutral | 1.00          | 10.30           |
| 10.794          | 2  | 36.38        | 50.00        | -13.62      | Neutral | 1.00          | 10.30           |
| 12.80775        | 2  | 36.00        | 50.00        | -14.00      | Neutral | 1.00          | 10.36           |
| 18.243          | 2  | 39.88        | 50.00        | -10.12      | Neutral | 1.00          | 10.45           |

Quasipeak (17)

| Frequency (MHz) | SR | Level (dBµV) | Limit (dBµV) | Margin (dB) | Pos     | Meas.Time (s) | Correction (dB) |
|-----------------|----|--------------|--------------|-------------|---------|---------------|-----------------|
| 0.504           | 1  | 37.89        | 56.00        | -18.11      | Phase 1 | 1.00          | 10.05           |
| 0.828           | 1  | 34.32        | 56.00        | -21.68      | Phase 1 | 1.00          | 10.09           |
| 1.9605          | 1  | 39.15        | 56.00        | -16.85      | Phase 1 | 1.00          | 10.15           |
| 2.0355          | 1  | 40.09        | 56.00        | -15.91      | Phase 1 | 1.00          | 10.15           |
| 4.41975         | 1  | 36.83        | 56.00        | -19.17      | Phase 1 | 1.00          | 10.16           |
| 4.458           | 1  | 37.91        | 56.00        | -18.09      | Phase 1 | 1.00          | 10.16           |
| 10.242          | 1  | 47.71        | 60.00        | -12.29      | Phase 1 | 1.00          | 10.20           |
| 10.794          | 1  | 48.16        | 60.00        | -11.84      | Phase 1 | 1.00          | 10.20           |
| 18.243          | 1  | 43.91        | 60.00        | -16.09      | Phase 1 | 1.00          | 10.35           |
| 0.501           | 2  | 36.34        | 56.00        | -19.66      | Neutral | 1.00          | 10.05           |
| 1.12725         | 2  | 36.53        | 56.00        | -19.47      | Neutral | 1.00          | 10.06           |
| 3.159           | 2  | 35.48        | 56.00        | -20.52      | Neutral | 1.00          | 10.15           |
| 4.3935          | 2  | 35.07        | 56.00        | -20.93      | Neutral | 1.00          | 10.16           |
| 10.24275        | 2  | 46.95        | 60.00        | -13.05      | Neutral | 1.00          | 10.30           |
| 10.794          | 2  | 47.15        | 60.00        | -12.85      | Neutral | 1.00          | 10.30           |
| 12.80775        | 2  | 43.54        | 60.00        | -16.46      | Neutral | 1.00          | 10.36           |
| 18.243          | 2  | 43.99        | 60.00        | -16.01      | Neutral | 1.00          | 10.45           |

Bemerkungen / Remarks:

Margin value = Measurement value – Limit value

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|                                                   |                                   |
|---------------------------------------------------|-----------------------------------|
| <b>Protokollnummer</b><br>Protocol number         | <a href="#"><u>1282</u></a>       |
| <b>Funkstörfeldstärke</b><br>Radiated disturbance | <b>PASS</b>                       |
| <b>Datum des Tests</b><br>Test date               | 26.10.2021                        |
| <b>Angewendete Norm</b><br>Applied Standard       | 47 CFR FCC Part 15 Section 15.109 |
| <b>Prüfmethode</b><br>Test method                 | ANSI C63.4-2014                   |
| <b>Temperatur (°C)</b><br>Temperature             | 15 - 35                           |
| <b>Luftfeuchte (% rH)</b><br>Humidity             | 30 - 60                           |
| <b>Luftdruck (mbar)</b><br>Air pressure           | 860 - 1060                        |
| <b>Bearbeiter</b><br>Tested by                    | A. Bustati                        |
| <b>Modellbezeichnung</b><br>Model                 | Wirnet iZeptocell PDTIOT-IZEE900  |
| <b>Prüfmuster-Nr.</b><br>Test sample No.:         | A003136187-007                    |
| <b>Betriebsart</b><br>Operating mode              | Ein / On                          |
| <b>Anschlüsse</b><br>Tested terminals             | Gehäuse / Enclosure               |
| <b>Bemerkung</b><br>Remarks                       | —                                 |
| <b>Prüfsoftware</b><br>Testing software           | 2021.0.15.1                       |

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**Verwendete Prüfmittel**  
*Used test equipment*

| Typ                                      | Hersteller<br><i>Manufacturer</i> | Modell                  | ID      | Kalibriert am<br><i>Last calibration</i> | Kalibriert bis<br><i>Next calibration</i> |
|------------------------------------------|-----------------------------------|-------------------------|---------|------------------------------------------|-------------------------------------------|
| Absorberhalle<br><i>Anechoic chamber</i> | TDK                               | SAC 10 (NSA 30-1000MHz) | 2728861 | 03.04.2020                               | 03.04.2023                                |
| Messantenne<br><i>Antenna</i>            | Schwarzbeck                       | VULB 9168               | 2728915 | 07.11.2019                               | 07.11.2022                                |
| Messempfänger<br><i>Receiver</i>         | Rohde & Schwarz                   | ESU 26                  | 2728898 | 17.08.2021                               | 17.08.2022                                |

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**Prüfparameter zu Funkstörfeldstärke**

**#1282**

*Test parameter of Radiated disturbance*

Radiated disturbance, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 30MHz                                   | 1GHz                                  | 30kHz                                 | Horizontal                   | 20 ms                              | 120kHz                               |

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 30MHz                                   | 1GHz                                  | 30kHz                                 | Vertical                     | 20 ms                              | 120kHz                               |

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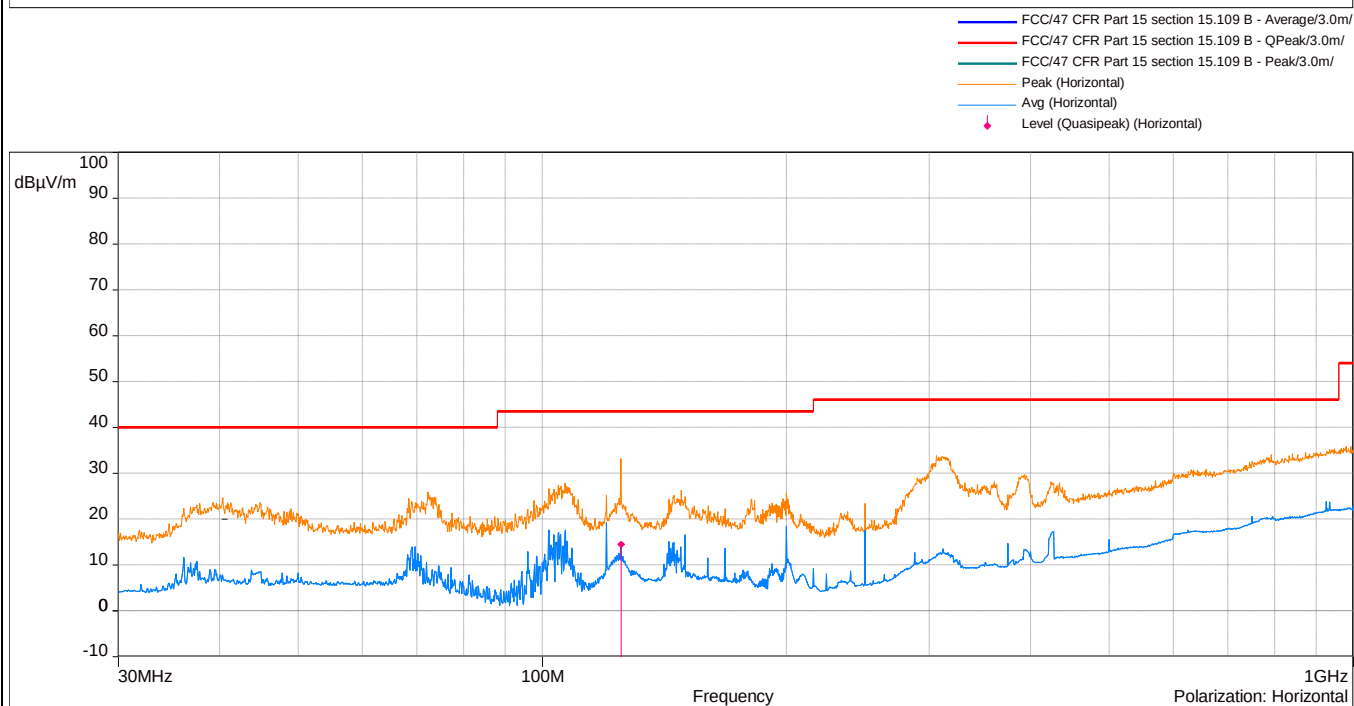
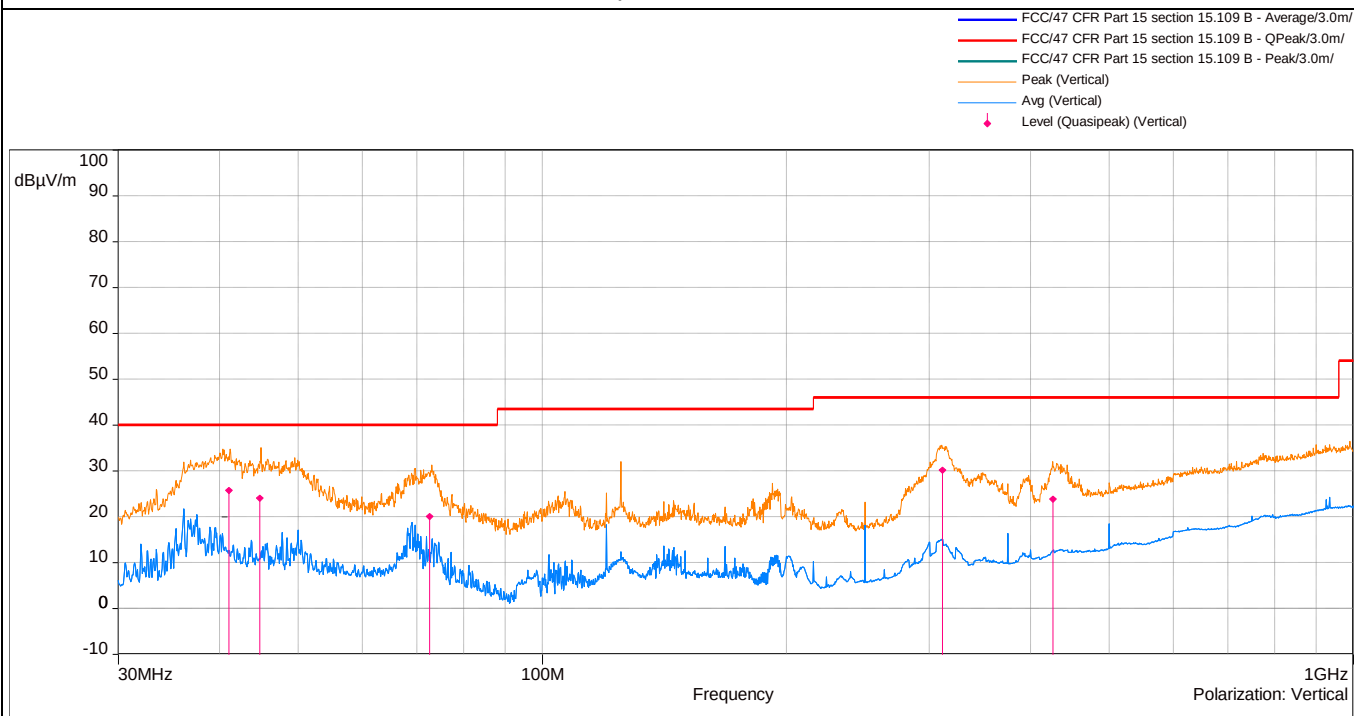
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### Messdiagramme zu Funkstörfeldstärke

#1282

Graphical presentation of Radiated disturbance

Radiated disturbance, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900



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**Messdaten zu Funkstörfeldstärke**

**#1282**

Measurement data of Radiated disturbance

Radiated disturbance, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

Quasipeak (6)

| Frequency (MHz) | SR | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pos        | Height | Azimuth | Meas.Time (s) | Correction (dB) |
|-----------------|----|----------------|----------------|-------------|------------|--------|---------|---------------|-----------------|
| 125.01          | 1  | 14.54          | 43.50          | -28.96      | Horizontal | 2.20   | 272.80  | 1.00          | 12.71           |
| 41.04           | 2  | 25.83          | 40.00          | -14.17      | Vertical   | 1.28   | 185.00  | 1.00          | 13.96           |
| 44.79           | 2  | 24.16          | 40.00          | -15.84      | Vertical   | 1.07   | 181.40  | 1.00          | 14.32           |
| 72.54           | 2  | 20.08          | 40.00          | -19.92      | Vertical   | 1.03   | 89.60   | 1.00          | 12.25           |
| 311.28          | 2  | 30.25          | 46.00          | -15.75      | Vertical   | 1.72   | 323.00  | 1.00          | 15.89           |
| 426.27          | 2  | 23.86          | 46.00          | -22.14      | Vertical   | 1.03   | 0.60    | 1.00          | 18.67           |

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Bemerkungen / Remarks:

Margin value = Measurement value – Limit value

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|                                                   |                                  |
|---------------------------------------------------|----------------------------------|
| <b>Protokollnummer</b><br>Protocol number         | <a href="#"><u>1277</u></a>      |
| <b>Funkstörfeldstärke</b><br>Radiated disturbance | <b>PASS</b>                      |
| <b>Datum des Tests</b><br>Test date               | 26.10.2021                       |
| <b>Angewendete Norm</b><br>Applied Standard       | ICES-003:2020 (Issue 7)          |
| <b>Prüfmethode</b><br>Test method                 | ANSI C63.4-2014                  |
| <b>Temperatur (°C)</b><br>Temperature             | 15 - 35                          |
| <b>Luftfeuchte (% rH)</b><br>Humidity             | 30 - 60                          |
| <b>Luftdruck (mbar)</b><br>Air pressure           | 860 - 1060                       |
| <b>Bearbeiter</b><br>Tested by                    | A. Bustati                       |
| <b>Modellbezeichnung</b><br>Model                 | Wirnet iZeptocell PDTIOT-IZEE900 |
| <b>Prüfmuster-Nr.</b><br>Test sample No.:         | A003136187-007                   |
| <b>Betriebsart</b><br>Operating mode              | Ein / On                         |
| <b>Anschlüsse</b><br>Tested terminals             | Gehäuse / Enclosure              |
| <b>Bemerkung</b><br>Remarks                       | —                                |
| <b>Prüfsoftware</b><br>Testing software           | 2021.0.15.1                      |

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**Verwendete Prüfmittel**  
*Used test equipment*

| Typ                                      | Hersteller<br><i>Manufacturer</i> | Modell                  | ID      | Kalibriert am<br><i>Last calibration</i> | Kalibriert bis<br><i>Next calibration</i> |
|------------------------------------------|-----------------------------------|-------------------------|---------|------------------------------------------|-------------------------------------------|
| Absorberhalle<br><i>Anechoic chamber</i> | TDK                               | SAC 10 (NSA 30-1000MHz) | 2728861 | 03.04.2020                               | 03.04.2023                                |
| Messantenne<br><i>Antenna</i>            | Schwarzbeck                       | VULB 9168               | 2728915 | 07.11.2019                               | 07.11.2022                                |
| Messempfänger<br><i>Receiver</i>         | Rohde & Schwarz                   | ESU 26                  | 2728898 | 17.08.2021                               | 17.08.2022                                |

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**Prüfparameter zu Funkstörfeldstärke**

**#1277**

*Test parameter of Radiated disturbance*

Radiated disturbance, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 30MHz                                   | 1GHz                                  | 30kHz                                 | Horizontal                   | 20 ms                              | 120kHz                               |

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 30MHz                                   | 1GHz                                  | 30kHz                                 | Vertical                     | 20 ms                              | 120kHz                               |

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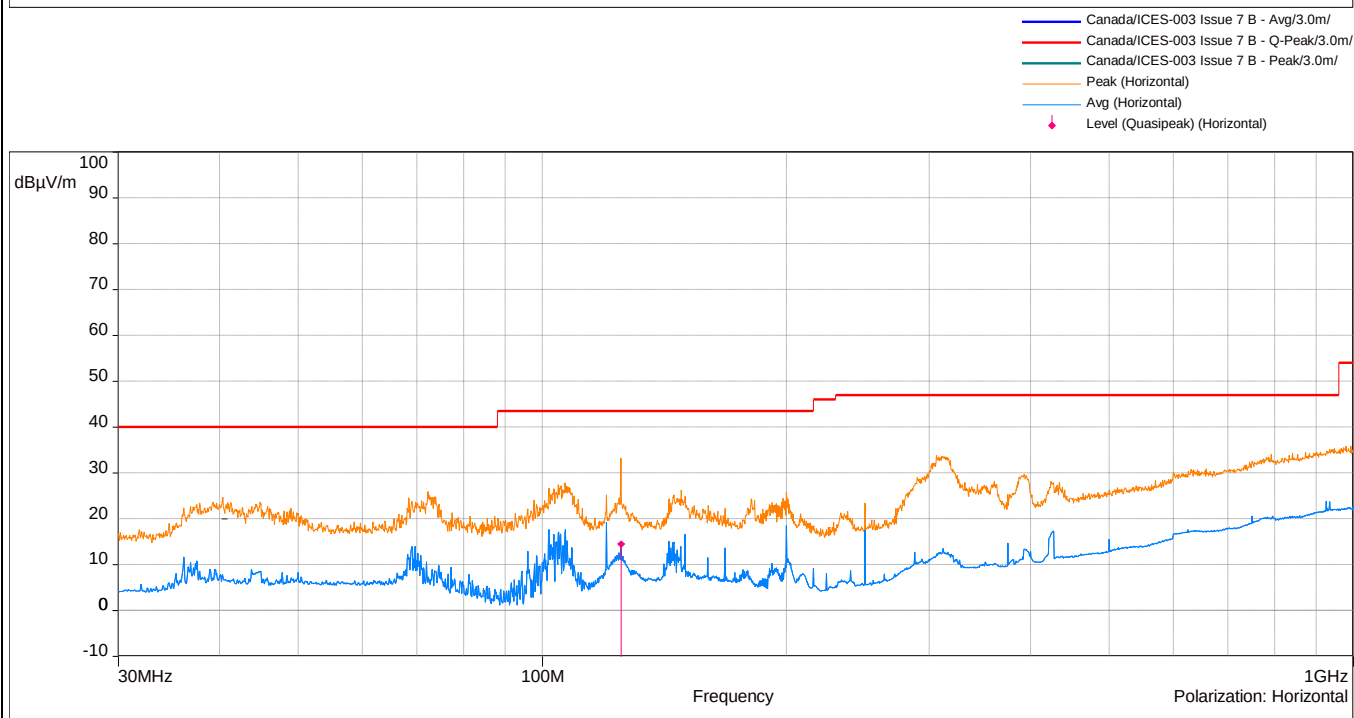
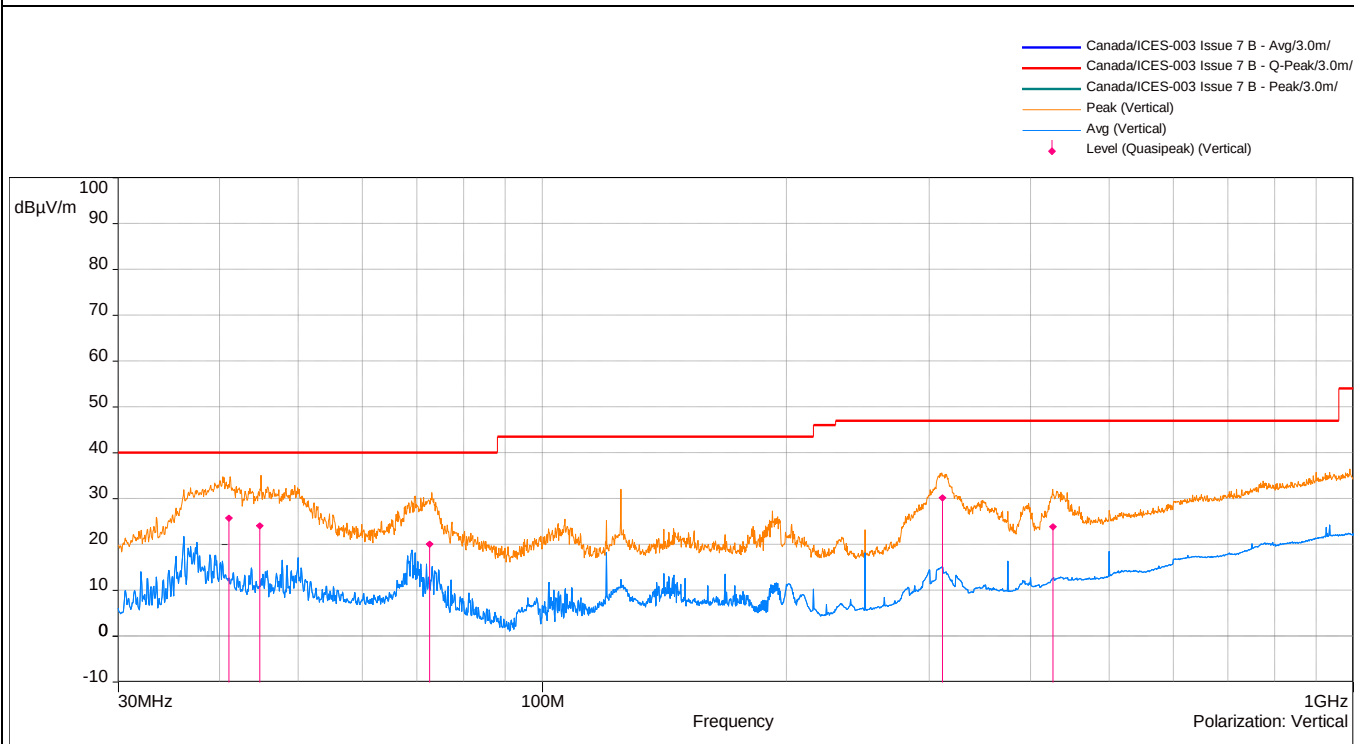
**ZUSATZDOKUMENTATION**  
**ADDITIONAL DOCUMENTATION**

**Messdiagramme zu Funkstörfeldstärke**

**#1277**

*Graphical presentation of Radiated disturbance*

Radiated disturbance, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900



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**Messdaten zu Funkstörfeldstärke**

**#1277**

Measurement data of Radiated disturbance

Radiated disturbance, A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

Quasipeak (6)

| Frequency (MHz) | SR | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pos        | Height | Azimuth | Meas.Time (s) | Correction (dB) |
|-----------------|----|----------------|----------------|-------------|------------|--------|---------|---------------|-----------------|
| 125.01          | 1  | 14.54          | 43.50          | -28.96      | Horizontal | 2.20   | 272.80  | 1.00          | 12.71           |
| 41.04           | 2  | 25.83          | 40.00          | -14.17      | Vertical   | 1.28   | 185.00  | 1.00          | 13.96           |
| 44.79           | 2  | 24.16          | 40.00          | -15.84      | Vertical   | 1.07   | 181.40  | 1.00          | 14.32           |
| 72.54           | 2  | 20.08          | 40.00          | -19.92      | Vertical   | 1.03   | 89.60   | 1.00          | 12.25           |
| 311.28          | 2  | 30.25          | 47.00          | -16.75      | Vertical   | 1.72   | 323.00  | 1.00          | 15.89           |
| 426.27          | 2  | 23.86          | 47.00          | -23.14      | Vertical   | 1.03   | 0.60    | 1.00          | 18.67           |

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Bemerkungen / Remarks:

Margin value = Measurement value – Limit value

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|                                                                          |                                  |
|--------------------------------------------------------------------------|----------------------------------|
| <b>Protokollnummer</b><br>Protocol number                                | <a href="#"><u>1283</u></a>      |
| <b>Funkstörfeldstärke (&gt; 1 GHz)</b><br>Radiated disturbance (> 1 GHz) | <b>PASS</b>                      |
| <b>Datum des Tests</b><br>Test date                                      | 26.10.2021                       |
| <b>Angewendete Norm</b><br>Applied Standard                              | FCC Part 15 Subpart B            |
| <b>Prüfmethode</b><br>Test method                                        | ANSI C63.4-2014                  |
| <b>Temperatur (°C)</b><br>Temperature                                    | 15 - 35                          |
| <b>Luftfeuchte (% rH)</b><br>Humidity                                    | 30 - 60                          |
| <b>Luftdruck (mbar)</b><br>Air pressure                                  | 860 - 1060                       |
| <b>Bearbeiter</b><br>Tested by                                           | A. Bustati                       |
| <b>Modellbezeichnung</b><br>Model                                        | Wirnet iZeptocell PDTIOT-IZEE900 |
| <b>Prüfmuster-Nr.</b><br>Test sample No.:                                | A003136187-007                   |
| <b>Betriebsart</b><br>Operating mode                                     | Ein / On                         |
| <b>Anschlüsse</b><br>Tested terminals                                    | Gehäuse / Enclosure              |
| <b>Bemerkung</b><br>Remarks                                              | —                                |
| <b>Prüfsoftware</b><br>Testing software                                  | 2021.0.15.1                      |

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**ZUSATZDOKUMENTATION**  
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**Verwendete Prüfmittel**  
*Used test equipment*

| Typ                                      | Hersteller<br><i>Manufacturer</i> | Modell                 | ID      | Kalibriert am<br><i>Last calibration</i> | Kalibriert bis<br><i>Next calibration</i> |
|------------------------------------------|-----------------------------------|------------------------|---------|------------------------------------------|-------------------------------------------|
| Absorberhalle<br><i>Anechoic chamber</i> | TDK                               | SAC 10 (SVSWR 1-40GHz) | 2766607 | 03.04.2020                               | 03.04.2023                                |
| Messantenne<br><i>Antenna</i>            | EMCO                              | 3115                   | 2728607 | 10.02.2020                               | 10.02.2023                                |
| Vorverstärker<br><i>Preamplifier</i>     | Schwarzbeck                       | BBV 9718               | 2731378 | 27.10.2020                               | 27.10.2022                                |
| Messempfänger<br><i>Receiver</i>         | Rohde & Schwarz                   | ESU 26                 | 2728898 | 17.08.2021                               | 17.08.2022                                |

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**ZUSATZDOKUMENTATION**  
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**Prüfparameter zu Funkstörfeldstärke (> 1 GHz)**

**#1283**

*Test parameter of Radiated disturbance (> 1 GHz)*

Radiated disturbance (> 1 GHz), A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 1GHz                                    | 5GHz                                  | 250kHz                                | Horizontal                   | 5 ms                               | 1MHz                                 |

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 1GHz                                    | 5GHz                                  | 250kHz                                | Vertical                     | 5 ms                               | 1MHz                                 |

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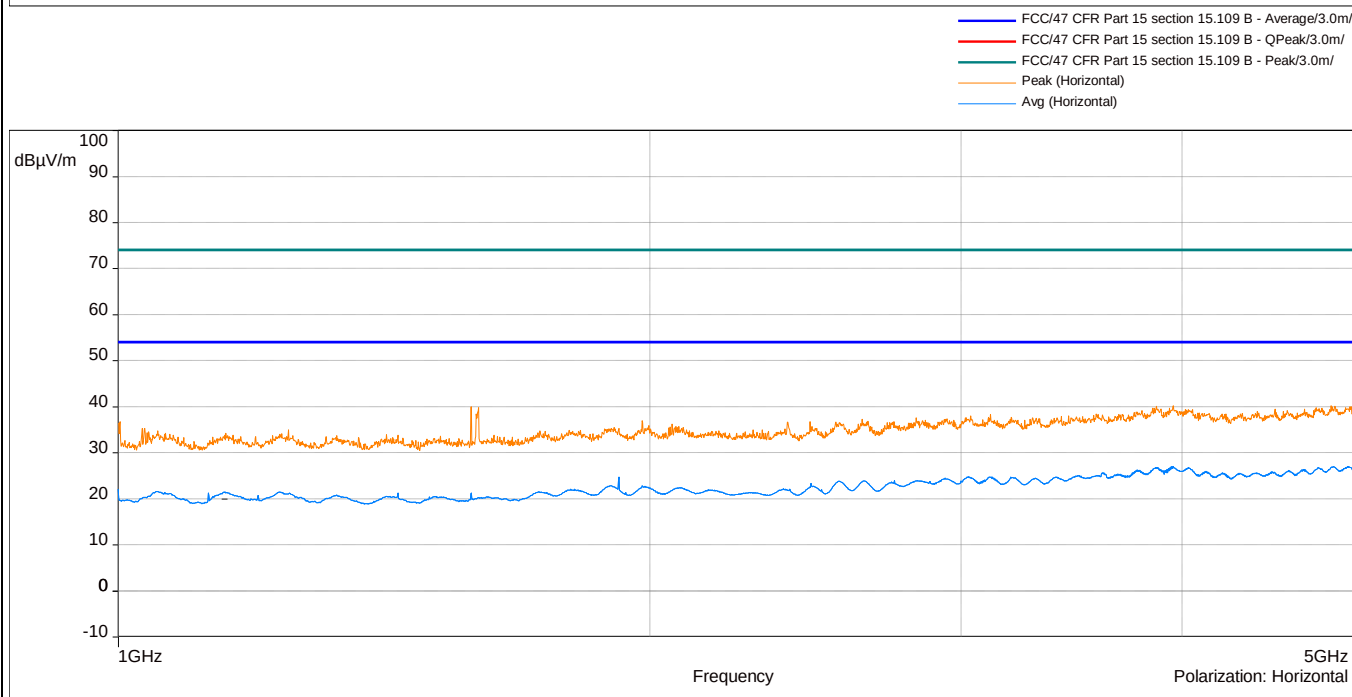
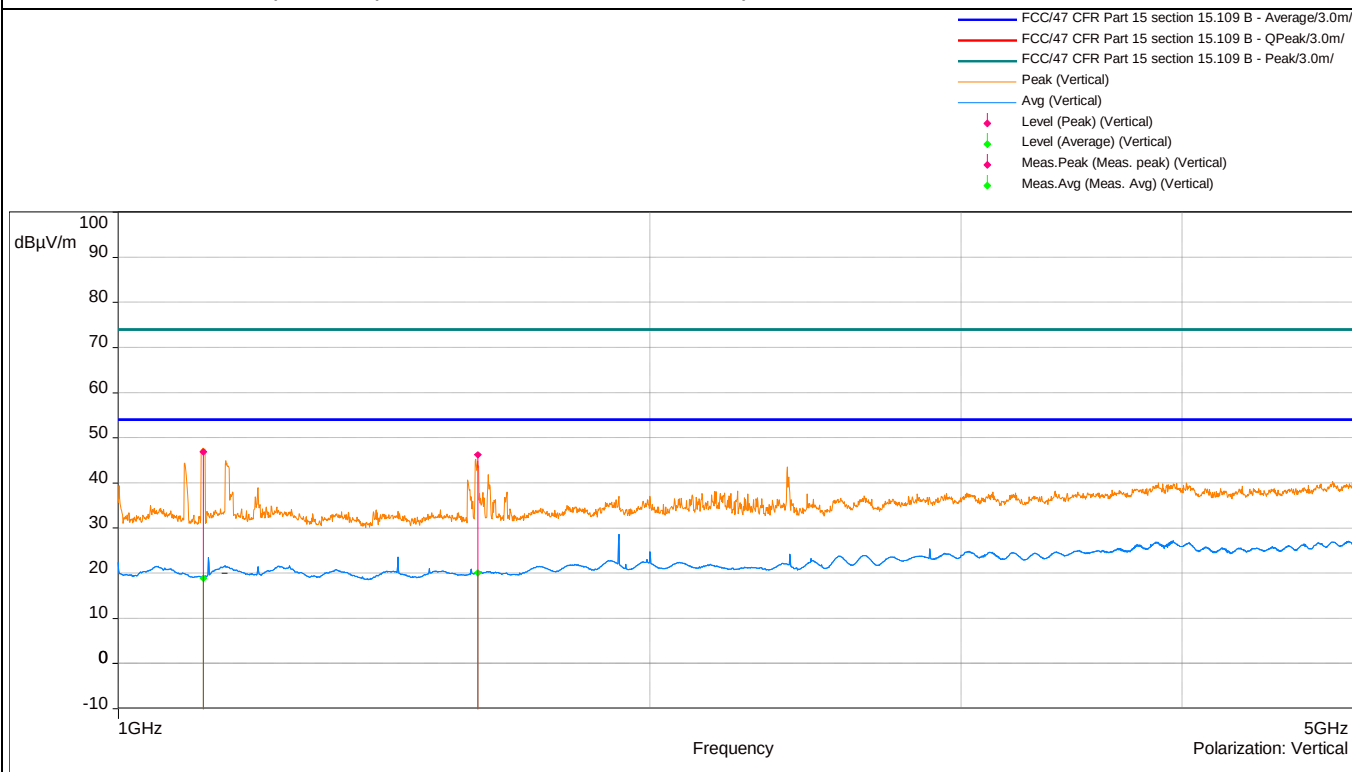
## ZUSATZDOKUMENTATION ADDITIONAL DOCUMENTATION

### Messdiagramme zu Funkstörfeldstärke (> 1 GHz)

#1283

Graphical presentation of Radiated disturbance (> 1 GHz)

Radiated disturbance (> 1 GHz), A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900



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**ZUSATZDOKUMENTATION**  
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**Messdaten zu Funkstörfeldstärke (> 1 GHz)**

**#1283**

Measurement data of Radiated disturbance (> 1 GHz)

Radiated disturbance (> 1 GHz), A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

Average (2)

| Frequency (MHz) | SR | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pos      | Height | Azimuth | Meas.Time (s) | Correction (dB) |
|-----------------|----|----------------|----------------|-------------|----------|--------|---------|---------------|-----------------|
| 1114.370192     | 2  | 18.99          | 54.00          | -35.01      | Vertical | 1.72   | 132.9   | 1.00          | -7.34           |
| 1597.5          | 2  | 20.14          | 54.00          | -33.86      | Vertical | 2.92   | 121.30  | 1.00          | -6.32           |

Peak (2)

| Frequency (MHz) | SR | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pos      | Height | Azimuth | Meas.Time (s) | Correction (dB) |
|-----------------|----|----------------|----------------|-------------|----------|--------|---------|---------------|-----------------|
| 1114.370192     | 2  | 46.92          | 74.00          | -27.08      | Vertical | 1.72   | 132.9   | 1.00          | -7.34           |
| 1597.5          | 2  | 46.31          | 74.00          | -27.69      | Vertical | 2.92   | 121.30  | 1.00          | -6.32           |

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Bemerkungen / Remarks:

Margin value = Measurement value – Limit value

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|                                                                          |                                  |
|--------------------------------------------------------------------------|----------------------------------|
| <b>Protokollnummer</b><br>Protocol number                                | <a href="#"><u>1281</u></a>      |
| <b>Funkstörfeldstärke (&gt; 1 GHz)</b><br>Radiated disturbance (> 1 GHz) | <b>PASS</b>                      |
| <b>Datum des Tests</b><br>Test date                                      | 26.10.2021                       |
| <b>Angewendete Norm</b><br>Applied Standard                              | ICES-003:2020 (Issue 7)          |
| <b>Prüfmethode</b><br>Test method                                        | ANSI C63.4-2014                  |
| <b>Temperatur (°C)</b><br>Temperature                                    | 15 - 35                          |
| <b>Luftfeuchte (% rH)</b><br>Humidity                                    | 30 - 60                          |
| <b>Luftdruck (mbar)</b><br>Air pressure                                  | 860 - 1060                       |
| <b>Bearbeiter</b><br>Tested by                                           | A. Bustati                       |
| <b>Modellbezeichnung</b><br>Model                                        | Wirnet iZeptocell PDTIOT-IZEE900 |
| <b>Prüfmuster-Nr.</b><br>Test sample No.:                                | A003136187-007                   |
| <b>Betriebsart</b><br>Operating mode                                     | Ein / On                         |
| <b>Anschlüsse</b><br>Tested terminals                                    | Gehäuse / Enclosure              |
| <b>Bemerkung</b><br>Remarks                                              | —                                |
| <b>Prüfsoftware</b><br>Testing software                                  | 2021.0.15.1                      |

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**ZUSATZDOKUMENTATION**  
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**Verwendete Prüfmittel**  
*Used test equipment*

| Typ                                      | Hersteller<br><i>Manufacturer</i> | Modell                 | ID      | Kalibriert am<br><i>Last calibration</i> | Kalibriert bis<br><i>Next calibration</i> |
|------------------------------------------|-----------------------------------|------------------------|---------|------------------------------------------|-------------------------------------------|
| Absorberhalle<br><i>Anechoic chamber</i> | TDK                               | SAC 10 (SVSWR 1-40GHz) | 2766607 | 03.04.2020                               | 03.04.2023                                |
| Messantenne<br><i>Antenna</i>            | EMCO                              | 3115                   | 2728607 | 10.02.2020                               | 10.02.2023                                |
| Vorverstärker<br><i>Preamplifier</i>     | Schwarzbeck                       | BBV 9718               | 2731378 | 27.10.2020                               | 27.10.2022                                |
| Messempfänger<br><i>Receiver</i>         | Rohde & Schwarz                   | ESU 26                 | 2728898 | 17.08.2021                               | 17.08.2022                                |

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**ZUSATZDOKUMENTATION**  
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**Prüfparameter zu Funkstörfeldstärke (> 1 GHz)**

**#1281**

*Test parameter of Radiated disturbance (> 1 GHz)*

Radiated disturbance (> 1 GHz), A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 1GHz                                    | 5GHz                                  | 250kHz                                | Horizontal                   | 5 ms                               | 1MHz                                 |

| Startfrequenz<br><i>Start Frequency</i> | Stopfrequenz<br><i>Stop Frequency</i> | Schrittweite<br><i>Frequency step</i> | Anschluss<br><i>Terminal</i> | Durchlaufzeit<br><i>Sweep time</i> | ZF-Bandbreite<br><i>IF bandwidth</i> |
|-----------------------------------------|---------------------------------------|---------------------------------------|------------------------------|------------------------------------|--------------------------------------|
| 1GHz                                    | 5GHz                                  | 250kHz                                | Vertical                     | 5 ms                               | 1MHz                                 |

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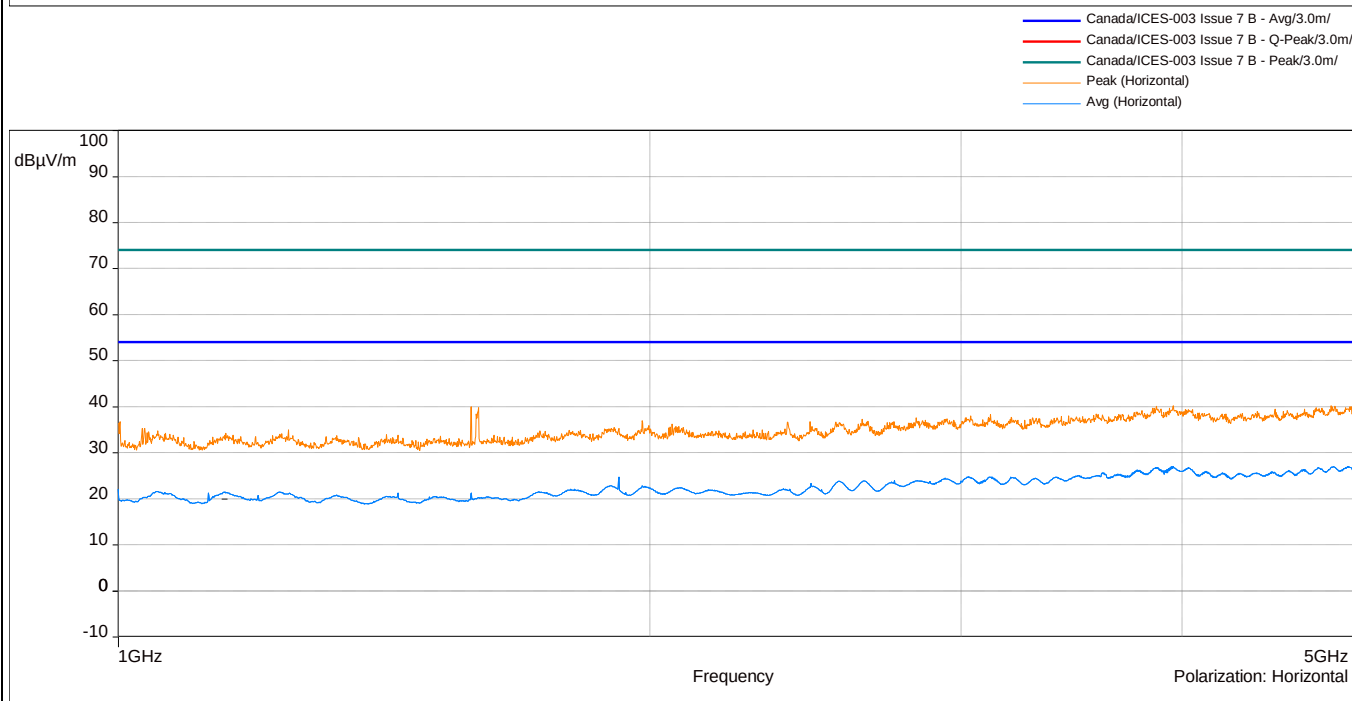
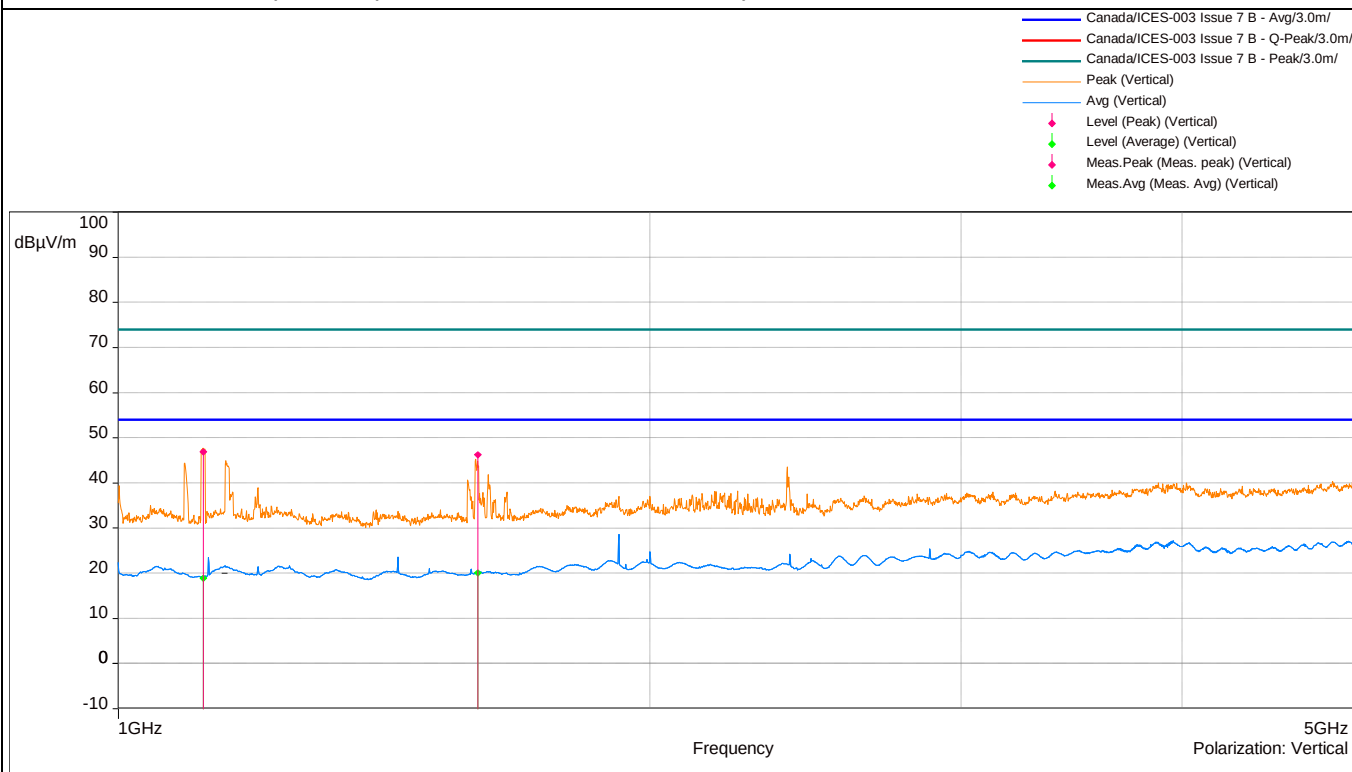
**ZUSATZDOKUMENTATION**  
**ADDITIONAL DOCUMENTATION**

**Messdiagramme zu Funkstörfeldstärke (> 1 GHz)**

**#1281**

*Graphical presentation of Radiated disturbance (> 1 GHz)*

Radiated disturbance (> 1 GHz), A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900



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**Messdaten zu Funkstörfeldstärke (> 1 GHz)**

**#1281**

Measurement data of Radiated disturbance (> 1 GHz)

Radiated disturbance (> 1 GHz), A003136187-007, Wirnet iZeptocell PDTIOT-IZEE900

Average (2)

| Frequency (MHz) | SR | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pos      | Height | Azimuth | Meas.Time (s) | Correction (dB) |
|-----------------|----|----------------|----------------|-------------|----------|--------|---------|---------------|-----------------|
| 1114.370192     | 2  | 18.99          | 54.00          | -35.01      | Vertical | 1.72   | 132.9   | 1.00          | -7.34           |
| 1597.5          | 2  | 20.14          | 54.00          | -33.86      | Vertical | 2.92   | 121.30  | 1.00          | -6.32           |

Peak (2)

| Frequency (MHz) | SR | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pos      | Height | Azimuth | Meas.Time (s) | Correction (dB) |
|-----------------|----|----------------|----------------|-------------|----------|--------|---------|---------------|-----------------|
| 1114.370192     | 2  | 46.92          | 74.00          | -27.08      | Vertical | 1.72   | 132.9   | 1.00          | -7.34           |
| 1597.5          | 2  | 46.31          | 74.00          | -27.69      | Vertical | 2.92   | 121.30  | 1.00          | -6.32           |

**Bemerkungen / Remarks:**

Margin value = Measurement value – Limit value

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**FOTODOKUMENTATION**  
***PHOTO DOCUMENTATION***

|           |                                                                                                                                             |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>46</b> | <b>Funkstörspannung</b><br>Conducted voltage emissions<br>Photos see Appendix to this report (Appendix B to DE21CJKO 001)                   |
| <b>47</b> | <b>Funkstörfeldstärke</b><br>Radiated disturbance<br>Photos see Appendix to this report (Appendix B to DE21CJKO 001)                        |
| <b>48</b> | <b>Funkstörfeldstärke (&gt; 1 GHz)</b><br>Radiated disturbance (> 1 GHz)<br>Photos see Appendix to this report (Appendix B to DE21CJKO 001) |

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**ÄNDERUNGSVERZEICHNIS**  
**REVISION HISTORY**

**49**

**Änderungsverzeichnis**  
***Change history***

| Rev. No. | List of changes              | Date<br>Author             |
|----------|------------------------------|----------------------------|
| 001      | First edition (DE21CJKO 001) | 2021-11-17<br>Alaa Bustati |

Ende des Prüfberichts  
*End of test report*