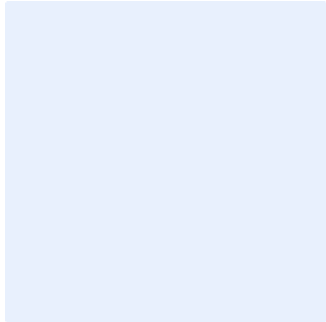


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                              |                                                 |                                                                                      |                                       |                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------|------------------------------|
| <b>Prüfbericht-Nr.:</b><br><i>Test report no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>IN25CSFD 001 / IN258K1F 001 /</b><br><b>IN258337 001 / IN25DWD0 001 /</b><br><b>IN25S64J 001</b>                                          |                                                 | <b>Auftrags-Nr.:</b><br><i>Order no.:</i>                                            | 146976468 010                         | Seite 1 von 6<br>Page 1 of 6 |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client reference no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                         | 2384903                                                                                                                                      |                                                 | <b>Auftragsdatum:</b><br><i>Order date:</i>                                          | 2024-10-22                            |                              |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                                                                                                                                                                                                                              | Devic Earth Private Limited<br>Villa 7, Ground Floor Parkway Tivoli Apartment.<br>Kadugodi Main Road.Seegehalli Whitefield Bangalore,560067. |                                                 |                                                                                      |                                       |                              |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>                                                                                                                                                                                                                                                                                                                                                                                                                         | Air Pollution Control Equipment                                                                                                              |                                                 |                                                                                      |                                       |                              |
| <b>Bezeichnung</b><br><i>Identification</i>                                                                                                                                                                                                                                                                                                                                                                                                                         | Transmitter PSDEACE                                                                                                                          |                                                 |                                                                                      |                                       |                              |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>                                                                                                                                                                                                                                                                                                                                                                                                                    | Testing & Issue of Test Report                                                                                                               |                                                 |                                                                                      |                                       |                              |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                                                                                                                                                                                                                                 | FCC Part1 1.1310, KDB 447498 D01<br>RSS 102 Issue 6                                                                                          |                                                 |                                                                                      |                                       |                              |
| <b>Wareneingangsdatum:</b><br><i>Date of sample receipt:</i>                                                                                                                                                                                                                                                                                                                                                                                                        | 2024-11-04                                                                                                                                   |                                                 |  |                                       |                              |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample no:</i>                                                                                                                                                                                                                                                                                                                                                                                                                    | A003846786-002                                                                                                                               |                                                 |                                                                                      |                                       |                              |
| <b>Serien -Nr.:</b><br><i>Serial no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                           | 0036                                                                                                                                         |                                                 |                                                                                      |                                       |                              |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>                                                                                                                                                                                                                                                                                                                                                                                                                      | 2024-11-04 - 2024-11-20                                                                                                                      |                                                 |                                                                                      |                                       |                              |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>                                                                                                                                                                                                                                                                                                                                                                                                                 | Wireless laboratory, Bangalore                                                                                                               |                                                 |                                                                                      |                                       |                              |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>                                                                                                                                                                                                                                                                                                                                                                                                              | TÜV Rheinland (India) Pvt. Ltd.<br>27/B,2nd cross road, Electronic city<br>Phase1, Bangalore-560100, India                                   |                                                 |                                                                                      |                                       |                              |
| <b>Prüfergebnis*:</b><br><i>Test result*:</i>                                                                                                                                                                                                                                                                                                                                                                                                                       | Pass                                                                                                                                         |                                                 |                                                                                      |                                       |                              |
| <b>geprüft von:</b><br><i>tested by:</i>                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                              |                                                 | <b>genehmigt von:</b><br><i>authorized by:</i>                                       |                                       |                              |
| <b>Datum:</b><br><i>Date:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2025-01-17                                                                                                                                   |                                                 | <b>Ausstellatum:</b><br><i>Issue date:</i>                                           | 2025-01-17                            |                              |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>M.V.Naveen Kumar</b><br>Senior Engineer                                                                                                   |                                                 | <b>Stellung / Position:</b>                                                          | <b>Madhu K.N</b><br>Assistant Manager |                              |
| <b>Sonstiges / Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>FCC ID: 2BL5B-PSDEACE</b><br><b>IC: 33453-PSDEACE</b><br><b>HVIN: Transmitter PSDEACE</b>                                                 |                                                 |                                                                                      |                                       |                              |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br><i>Condition of the test item at delivery:</i>                                                                                                                                                                                                                                                                                                                                                              | <b>Prüfmuster vollständig und unbeschädigt</b><br><b>Test item complete and undamaged</b>                                                    |                                                 |                                                                                      |                                       |                              |
| <b>* Legende:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 = sehr gut                                                                                                                                 | 2 = gut                                         | 3 = befriedigend                                                                     | 4 = ausreichend                       | 5 = mangelhaft               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | P(ass) = entspricht o.g. Prüfgrundlage(n)                                                                                                    | F(ail) = entspricht nicht o.g. Prüfgrundlage(n) | N/A = nicht anwendbar                                                                | N/T = nicht getestet                  |                              |
| <b>* Legend:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 = very good                                                                                                                                | 2 = good                                        | 3 = satisfactory                                                                     | 4 = sufficient                        | 5 = poor                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | P(ass) = passed a.m. test specification(s)                                                                                                   | F(ail) = failed a.m. test specification(s)      | N/A = not applicable                                                                 | 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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- |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüflabors 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. 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. TÜV 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, TÜV 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.</p> <p>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 Entscheidungsregel für Konformitätserklärungen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird.</p> <p><i>The decision rule for statements of conformity in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report.</i></p>                                                                                                                                                                                                             |

# 1 RF Exposure Evaluation

## 1.1 RF Exposure Compliance Requirement

The limit for Maximum Permissible Exposure (MPE) specified in FCC Part 1 Subpart I 1.1310 is followed. The gain of the antennas used in the product are extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

## 1.2 Test Reference Limits

According to FCC Part 1 Subpart I 1.1310 The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

**Table 1: Limits for Maximum Permissible Exposure (MPE) as per FCC**

| Frequency Range (MHz)                                 | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) |
|-------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|
| Limits for Occupational / controlled Exposures        |                               |                               |                                     |
| 300 - 1500                                            | --                            | --                            | F/300                               |
| 1500 – 100000                                         | --                            | --                            | 5.0                                 |
| Limits for General population / Uncontrolled Exposure |                               |                               |                                     |
| 300 - 1500                                            | --                            | --                            | F/1500                              |
| 1500 – 100000                                         | --                            | --                            | 1.0                                 |

F or  $f$  = Frequency in MHz

**Table 2: Limits for Maximum Permissible Exposure (MPE) as per ICSED Canada**

| Frequency Range (MHz)                                 | Electric Field (V/m rms) | Magnetic Field (A/m rms) | Power Density (W/m <sup>2</sup> ) |
|-------------------------------------------------------|--------------------------|--------------------------|-----------------------------------|
| Limits for Occupational / controlled Exposures        |                          |                          |                                   |
| 100-6000                                              | $15.60f^{0.25}$          | $0.04138f^{0.25}$        | $0.6455f^{0.5}$                   |
| Limits for General population / Uncontrolled Exposure |                          |                          |                                   |
| 300-6000                                              | $3.142f^{0.3417}$        | $0.008335f^{0.3417}$     | $0.02619f^{0.6834}$               |

F or  $f$  = Frequency in MHz

According to IC **RSS 102 Issue 6 clause 6.6**: Field reference level exposure exemption limits:

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than  $1.31 \times 10^{-2} f^{0.6834} \text{ W}$  (adjusted for tune-up tolerance), where  $f$  is in MHz.

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**Friss Formula**

Friss Transmission Formula:  $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where,

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

$R$  = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation.

**Test Results:**

**Antenna details:**

| Protocol             | Antenna Type                  | Frequency Band (MHz) | Antenna Gain (dBi) |
|----------------------|-------------------------------|----------------------|--------------------|
| LTE; WCDMA & GSM     | Dipole Antenna (External)     | 2                    | 1.87               |
|                      |                               | 4                    | 3.12               |
|                      |                               | 5                    | 0.91               |
|                      |                               | 12                   | 0.95               |
|                      |                               | 13                   | 2.23               |
|                      |                               | 25                   | 1.87               |
|                      |                               | 26                   | 0.91               |
|                      |                               | 41                   | 2.90               |
|                      |                               | 66                   | 3.12               |
| Proprietary Protocol | Omni Directional Whip Antenna | 2425-2425            | 5                  |

| Radio Protocol | Band         | Frequency (MHz) | Maximum measured RF output power with tune-up procedure (dBm) | Max power Including tune-up tolerance * (mW) | Antenna Gain in linear | Min Separation distance (CM) | Power Density (Pd)(mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) |
|----------------|--------------|-----------------|---------------------------------------------------------------|----------------------------------------------|------------------------|------------------------------|-----------------------------------------|-----------------------------|
| LTE            | B2           | 1860.00         | 25.63                                                         | 365.59                                       | 1.5382                 | 20                           | 0.1119                                  | 1.0000                      |
|                | B4           | 1720.00         | 25.63                                                         | 365.59                                       | 2.0512                 | 20                           | 0.1492                                  | 1.0000                      |
|                | B5           | 829.00          | 26.41                                                         | 437.52                                       | 1.2331                 | 20                           | 0.1073                                  | 0.5527                      |
|                | B12          | 699.70          | 26.00                                                         | 398.11                                       | 1.2445                 | 20                           | 0.0986                                  | 0.4665                      |
|                | B13          | 782.00          | 26.16                                                         | 413.05                                       | 1.6711                 | 20                           | 0.1373                                  | 0.5213                      |
|                | B25          | 1860.00         | 25.57                                                         | 360.58                                       | 1.5382                 | 20                           | 0.1103                                  | 1.0000                      |
|                | B26(814-824) | 819.00          | 27.04                                                         | 505.82                                       | 1.2331                 | 20                           | 0.1241                                  | 0.5460                      |
|                | B26(824-849) | 824.70          | 26.04                                                         | 401.79                                       | 1.2331                 | 20                           | 0.0986                                  | 0.5498                      |
|                | B41          | 2501.00         | 24.44                                                         | 277.97                                       | 1.9498                 | 20                           | 0.1078                                  | 1.0000                      |
|                | B66          | 1720.00         | 25.97                                                         | 395.37                                       | 2.0512                 | 20                           | 0.1613                                  | 1.0000                      |

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| Radio Protocol       | Band   | Frequency (MHz) | Maximum measured RF output power with tune-up procedure (dBm) | Max power Including tune-up tolerance * (mW) | Antenna Gain in linear | Min Separation distance (CM) | Power Density (Pd)(mW/cm²) | Limit (mW/cm²) |
|----------------------|--------|-----------------|---------------------------------------------------------------|----------------------------------------------|------------------------|------------------------------|----------------------------|----------------|
| WCDMA                | 2      | 1852.40         | 24.86                                                         | 306.1963                                     | 1.54                   | 20                           | 0.0938                     | 1.0000         |
|                      | 4      | 1712.40         | 23.75                                                         | 237.1374                                     | 2.05                   | 20                           | 0.0967                     | 1.0000         |
|                      | 5      | 826.40          | 23.76                                                         | 237.6840                                     | 1.23                   | 20                           | 0.0582                     | 0.5509         |
| GSM                  | 850    | 824.20          | 24.15                                                         | 260.0160                                     | 1.23                   | 20                           | 0.0636                     | 0.5495         |
|                      | 1900   | 1850.20         | 22.50                                                         | 177.8279                                     | 1.87                   | 20                           | 0.0662                     | 1.0000         |
| Proprietary protocol | 2.4GHz | 2425.00         | 9.06                                                          | 8.05                                         | 3.1623                 | 20                           | 0.0051                     | 1.0000         |

**Note:** The duty correction factor of 9.03 dB is subtracted from the measured power for GSM.

**Test Results for ISED:**

| Radio Protocol       | Band         | Frequency (MHz) | Maximum measured RF output power with tune-up value (dBm) | Max power Including tune-up tolerance * (mW) | Antenna Gain in linear | Min Separation distance (CM) | Power Density (Pd)(W/m²) | Limit (W/m²) |
|----------------------|--------------|-----------------|-----------------------------------------------------------|----------------------------------------------|------------------------|------------------------------|--------------------------|--------------|
| LTE                  | B2           | 1860.00         | 25.63                                                     | 365.59                                       | 1.5382                 | 20                           | 1.1187                   | 4.4928       |
|                      | B4           | 1720.00         | 25.63                                                     | 365.59                                       | 2.0512                 | 20                           | 1.4919                   | 4.2589       |
|                      | B5           | 829.00          | 26.41                                                     | 437.52                                       | 1.2331                 | 20                           | 1.0733                   | 2.5863       |
|                      | B12          | 699.70          | 26.00                                                     | 398.11                                       | 1.2445                 | 20                           | 0.9857                   | 2.3033       |
|                      | B13          | 782.00          | 26.16                                                     | 413.05                                       | 1.6711                 | 20                           | 1.3732                   | 2.4852       |
|                      | B25          | 1860.00         | 25.57                                                     | 360.58                                       | 1.5382                 | 20                           | 1.1034                   | 4.4928       |
|                      | B26(814-824) | 819.00          | 27.04                                                     | 505.82                                       | 1.2331                 | 20                           | 1.2409                   | 2.5649       |
|                      | B41          | 2501.00         | 24.44                                                     | 277.97                                       | 1.9498                 | 20                           | 1.0783                   | 5.5006       |
|                      | B66          | 1720.00         | 25.97                                                     | 395.37                                       | 2.0512                 | 20                           | 1.6134                   | 4.2589       |
| WCDMA                | 2            | 1852.40         | 24.86                                                     | 306.1963                                     | 1.54                   | 20                           | 0.9381                   | 4.4803       |
|                      | 4            | 1712.40         | 23.75                                                     | 237.1374                                     | 2.05                   | 20                           | 0.9671                   | 4.2460       |
|                      | 5            | 826.40          | 23.76                                                     | 237.6840                                     | 1.23                   | 20                           | 0.5816                   | 2.5807       |
| GSM                  | 850          | 824.20          | 24.15                                                     | 260.0160                                     | 1.23                   | 20                           | 0.6363                   | 2.5760       |
|                      | 1900         | 1850.20         | 22.50                                                     | 177.8279                                     | 1.87                   | 20                           | 0.6616                   | 4.4800       |
| Proprietary protocol | 2.4GHz       | 2425.00         | 9.06                                                      | 8.05                                         | 3.1623                 | 20                           | 0.507                    | 5.3858       |

\*Note: The duty correction factor of 9.03 dB is subtracted from the measured power for GSM

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**\*Note:**

1. Supplier has been declared tune up value as  $\pm 1\text{dB}$  for LTE & proprietary protocol and same as applied in above table.

**Exception calculation for Simultaneous Operation:**

| RF Protocol       | Calculated Pd(W/m <sup>2</sup> ) | Total Pd(W/m <sup>2</sup> ) | Limit(W/m <sup>2</sup> ) |
|-------------------|----------------------------------|-----------------------------|--------------------------|
| Proprietary + LTE | 1.6134+0.0507                    | 1.6641                      | 2.3033                   |

## 1.3 Conclusion

The Power density of the EUT is less than defined limit as shown above. Hence, it's meeting the RF Exposure evaluation.

The max. output power also less than Field reference level exposure exemption limits (2.67W for 2400MHz).