

RF EXPOSURE EVALUATION REPORT

Product Name: Module
Trade Mark: CINTERION
Model No. / HVIN: PLS83-W
Report Number: 200722013RFC-1
Test Standards: FCC 47 CFR Part 1 Subpart I
RSS-102 Issue 5
FCC ID: QIPPLS83-W
IC: 7830A-PLS83W
Test Result: PASS
Date of Issue: January 6, 2021

Prepared for:

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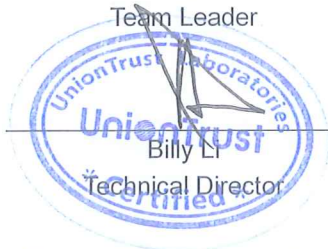
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Version

| Version No. | Date | Description |
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| V1.0 | January 6, 2021 | Original |

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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

| | |
|---------------------------------|--|
| Applicant: | Thales DIS AIS Deutschland GmbH |
| Address of Applicant: | Siemensdamm 50, 13629 Berlin, Germany |
| Manufacturer: | Thales DIS AIS Deutschland GmbH |
| Address of Manufacturer: | Werinherstr. 81, 81541 Munich, Germany |

1.2 EUT INFORMATION

| | | |
|-------------------------------|------------------|--|
| Product Name: | Module | |
| Model No. / HVIN: | PLS83-W | |
| Trade Mark: | CINTERION | |
| DUT Stage: | Production Unit | |
| Antenna Type | External Antenna | |
| EUT Supports Function: | GSM Bands: | GSM850/1900 |
| | UTRA Bands: | Band II/ Band IV/ Band V |
| | E-UTRA Bands: | FDD Band 2/ Band 4/ Band 5/ Band 7/ Band 12/ Band 13/ Band 26/ Band 66 |
| | | TDD Band 38/ Band 41 |
| Sample Received Date: | July 24, 2020 | |

1.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR Part 1 Subpart I
RSS-102 Issue 5

All test items have been performed and recorded as per the above standards

1.4 TEST LOCATION

All tests were performed at:

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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 Telephone: +86 (0) 755 2823 0888
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1.5 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025

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to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.6 DEVIATION FROM STANDARDS

None.

1.7 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

2. EQUIPMENT LIST

Please refer to the RF test report.

3. MPE EVALUATION

3.1 REFERENCE DOCUMENTS FOR EVALUATION

| No. | Identity | Document Title |
|-----|---|--|
| 1 | FCC 47 CFR Part 1 Subpart I | PROCEDURES IMPLEMENTING THE NATIONAL ENVIRONMENTAL POLICY ACT OF 1969 |
| 2 | RSS-102 Issue 5 | Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) |
| 3 | KDB 447498 D01 General RF Exposure Guidance v06 | RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES |

3.2 MPE COMPLIANCE REQUIREMENT

3.2.1 Limits

3.2.1.1 FCC 47 CFR Part 1 Subpart I

According to §1.1307(b)(1), system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Occupational / Controlled Exposure

| Frequency range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm ²) | Averaging Times E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|---|--|
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 |
| 3.0-30 | 1842/f | 4.89/f | (900/f)* | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | / | / | F/300 | 6 |
| 1500-100000 | / | / | 5 | 6 |

Limits for General Population / Uncontrolled Exposure

| Frequency range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm ²) | Averaging Times E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|---|--|
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180/f)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | F/1500 | 30 |
| 1500-100000 | / | / | 1 | 30 |

Note: f = frequency in MHz; * = Plane-wave equivalent power density.

3.2.1.2 RSS-102 Issue 5

According to RSS-102 Issue 5, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

According to RSS-102 Issue 5, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz⁶ and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

3.2.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.3 MPE CALCULATION METHOD

$$S = PG/4\pi R^2 = EIRP/4\pi R^2$$

S = power density (in appropriate units, e.g., mw/cm²)

P = power input to the antenna (in appropriate units, e.g., mw)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

R = distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

3.4 MPE CALCULATION RESULTS

Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3.4.1 WWAN results for FCC 47 CFR Part 1 Subpart I

| Operating Mode | Frequency | Declared maximum conducted average output power | Max. positive tolerance according manufacturer | Antenna Gain | Calculated maximum EIRP | MPE Limit | MPE Value |
|-----------------------------------|-----------|---|--|--------------|-------------------------|-----------------------|-----------------------|
| | (MHz) | (dBm) | (dB) | (dBi) | (dBm) | (mw/cm ²) | (mw/cm ²) |
| GSM/GPRS 850 (Avg.Burst Power) | 824.2 | 33 | 2 | 0 | 35 | 0.5495 | 0.3146 |
| | 837 | 33 | 2 | 0 | 35 | 0.5580 | 0.3146 |
| | 848.8 | 33 | 2 | 0 | 35 | 0.5659 | 0.3146 |

| | | | | | | | |
|---|--------|----|---|---|----|--------|--------|
| EDGE 850 (Avg.Burst Power) | 824.2 | 27 | 3 | 0 | 30 | 0.5495 | 0.0995 |
| | 837 | 27 | 3 | 0 | 30 | 0.5580 | 0.0995 |
| | 848.8 | 27 | 3 | 0 | 30 | 0.5659 | 0.0995 |
| GSM/GPRS 1900 (Avg.Burst Power) | 1850.2 | 30 | 2 | 0 | 32 | 1.0000 | 0.1576 |
| | 1880 | 30 | 2 | 0 | 32 | 1.0000 | 0.1576 |
| | 1909.8 | 30 | 2 | 0 | 32 | 1.0000 | 0.1576 |
| EDGE 1900 (Avg.Burst Power) | 1850.2 | 26 | 3 | 0 | 29 | 1.0000 | 0.0790 |
| | 1880 | 26 | 3 | 0 | 29 | 1.0000 | 0.0790 |
| | 1909.8 | 26 | 3 | 0 | 29 | 1.0000 | 0.0790 |
| WCDMA FDD Band II (RMS-Value) | 1852.4 | 24 | 1 | 0 | 25 | 1.0000 | 0.0629 |
| | 1880 | 24 | 1 | 0 | 25 | 1.0000 | 0.0629 |
| | 1907.6 | 24 | 1 | 0 | 25 | 1.0000 | 0.0629 |
| WCDMA FDD Band IV (RMS-Value) | 1712.4 | 24 | 1 | 0 | 25 | 1.0000 | 0.0629 |
| | 1732.4 | 24 | 1 | 0 | 25 | 1.0000 | 0.0629 |
| | 1752.6 | 24 | 1 | 0 | 25 | 1.0000 | 0.0629 |
| WCDMA FDD Band V (RMS-Value) | 826.4 | 24 | 1 | 0 | 25 | 0.5509 | 0.0629 |
| | 836.4 | 24 | 1 | 0 | 25 | 0.5576 | 0.0629 |
| | 846.6 | 24 | 1 | 0 | 25 | 0.5644 | 0.0629 |
| LTE Band 2 (QPSK,#RB=1,RMS- Value) | 1860 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| | 1880 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| | 1900 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| LTE Band 4 (QPSK,#RB=1,RMS- Value) | 1720 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| | 1732.5 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| | 1745 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| LTE Band 5 (QPSK,#RB=1,RMS- Value) | 829 | 23 | 2 | 0 | 25 | 0.5527 | 0.0629 |
| | 836.5 | 23 | 2 | 0 | 25 | 0.5577 | 0.0629 |
| | 844 | 23 | 2 | 0 | 25 | 0.5627 | 0.0629 |
| LTE Band 7 (QPSK,#RB=1,RMS- Value) | 2510 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| | 2535 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| | 2560 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| LTE Band 12 (QPSK,#RB=1,RMS- Value) | 704 | 23 | 2 | 0 | 25 | 0.4693 | 0.0629 |
| | 707.5 | 23 | 2 | 0 | 25 | 0.4717 | 0.0629 |
| | 711 | 23 | 2 | 0 | 25 | 0.4740 | 0.0629 |
| LTE Band 13 (QPSK,#RB=1,RMS- Value) | 779.5 | 23 | 2 | 0 | 25 | 0.5197 | 0.0629 |
| | 782 | 23 | 2 | 0 | 25 | 0.5213 | 0.0629 |
| | 784.5 | 23 | 2 | 0 | 25 | 0.5230 | 0.0629 |
| LTE Band 26 (QPSK,#RB=1,RMS- Value) | 814 | 23 | 2 | 0 | 25 | 0.5427 | 0.0629 |
| | 831.5 | 23 | 2 | 0 | 25 | 0.5543 | 0.0629 |
| | 849 | 23 | 2 | 0 | 25 | 0.5660 | 0.0629 |
| LTE Band 38 (QPSK,#RB=1,RMS- Value) | 2580 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| | 2595 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |

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| | | | | | | | |
|---|------|----|---|---|----|--------|--------|
| Value) | 2610 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| LTE Band 41 (QPSK,#RB=1,RMS- Value) | 2506 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| | 2593 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| | 2680 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| LTE Band 66 (QPSK,#RB=1,RMS- Value) | 1720 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| | 1745 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |
| | 1770 | 23 | 2 | 0 | 25 | 1.0000 | 0.0629 |

Note 1: Calculated maximum EIRP = Declared maximum conducted output power + Max. positive tolerance according manufacturer + Antenna Gain.

Note 2: Declared maximum EIRP = $10^{\left(\frac{\text{Calculated maximum EIRP}}{10}\right)}$.

Note 3: Equivalent EIRP = Declared maximum EIRP * Duty cycle.

Note 4: Margin = MPE Limit - MPE Value.

3.4.2 WWAN results for RSS-102 Issue 5

| Operating Mode | Frequency | Declared maximum conducted average output power | Max. positive tolerance according manufacturer | Antenna Gain | Calculated maximum EIRP | Declared maximum EIRP | Limit |
|-------------------------------------|-----------|---|--|--------------|-------------------------|-----------------------|--------|
| | (MHz) | (dBm) | (dB) | (dBi) | (dBm) | (W) | (W) |
| GSM/GPRS 850 (Avg.Burst Power) | 824.2 | 33 | 2 | 0 | 35 | 0.3810 | 1.2885 |
| | 837 | 33 | 2 | 0 | 35 | 0.3810 | 1.3022 |
| | 848.8 | 33 | 2 | 0 | 35 | 0.3810 | 1.3147 |
| EDGE 850 (Avg.Burst Power) | 824.2 | 27 | 3 | 0 | 30 | 0.1205 | 1.2885 |
| | 837 | 27 | 3 | 0 | 30 | 0.1205 | 1.3022 |
| | 848.8 | 27 | 3 | 0 | 30 | 0.1205 | 1.3147 |
| GSM/GPRS 1900 (Avg.Burst Power) | 1850.2 | 30 | 2 | 0 | 32 | 0.1910 | 2.2392 |
| | 1880 | 30 | 2 | 0 | 32 | 0.1910 | 2.2638 |
| | 1909.8 | 30 | 2 | 0 | 32 | 0.1910 | 2.2882 |
| EDGE 1900 (Avg.Burst Power) | 1850.2 | 26 | 3 | 0 | 29 | 0.0957 | 2.2392 |
| | 1880 | 26 | 3 | 0 | 29 | 0.0957 | 2.2638 |
| | 1909.8 | 26 | 3 | 0 | 29 | 0.0957 | 2.2882 |
| WCDMA FDD Band II (RMS-Value) | 1852.4 | 24 | 1 | 0 | 25 | 0.3162 | 2.2410 |
| | 1880 | 24 | 1 | 0 | 25 | 0.3162 | 2.2638 |
| | 1907.6 | 24 | 1 | 0 | 25 | 0.3162 | 2.2864 |
| WCDMA FDD Band IV (RMS-Value) | 1712.4 | 24 | 1 | 0 | 25 | 0.3162 | 2.1238 |
| | 1732.4 | 24 | 1 | 0 | 25 | 0.3162 | 2.1407 |
| | 1752.6 | 24 | 1 | 0 | 25 | 0.3162 | 2.1578 |
| WCDMA FDD Band V (RMS-Value) | 826.4 | 24 | 1 | 0 | 25 | 0.3162 | 1.2909 |
| | 836.4 | 24 | 1 | 0 | 25 | 0.3162 | 1.3015 |
| | 846.6 | 24 | 1 | 0 | 25 | 0.3162 | 1.3123 |
| LTE Band 2 | 1860 | 23 | 2 | 0 | 25 | 0.3162 | 2.2473 |

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| | | | | | | | |
|---------------------------------------|--------|----|---|---|----|--------|--------|
| (QPSK,#RB=1,RMS-Value) | 1880 | 23 | 2 | 0 | 25 | 0.3162 | 2.2638 |
| | 1900 | 23 | 2 | 0 | 25 | 0.3162 | 2.2802 |
| LTE Band 4 (QPSK,#RB=1,RMS-Value) | 1720 | 23 | 2 | 0 | 25 | 0.3162 | 2.1303 |
| | 1732.5 | 23 | 2 | 0 | 25 | 0.3162 | 2.1408 |
| | 1745 | 23 | 2 | 0 | 25 | 0.3162 | 2.1514 |
| LTE Band 5 (QPSK,#RB=1,RMS-Value) | 829 | 23 | 2 | 0 | 25 | 0.3162 | 1.2936 |
| | 836.5 | 23 | 2 | 0 | 25 | 0.3162 | 1.3016 |
| | 844 | 23 | 2 | 0 | 25 | 0.3162 | 1.3096 |
| LTE Band 7 (QPSK,#RB=1,RMS-Value) | 2510 | 23 | 2 | 0 | 25 | 0.3162 | 2.7581 |
| | 2535 | 23 | 2 | 0 | 25 | 0.3162 | 2.7768 |
| | 2560 | 23 | 2 | 0 | 25 | 0.3162 | 2.7955 |
| LTE Band 12 (QPSK,#RB=1,RMS-Value) | 704 | 23 | 2 | 0 | 25 | 0.3162 | 1.1569 |
| | 707.5 | 23 | 2 | 0 | 25 | 0.3162 | 1.1608 |
| | 711 | 23 | 2 | 0 | 25 | 0.3162 | 1.1648 |
| LTE Band 13 (QPSK,#RB=1,RMS-Value) | 779.5 | 23 | 2 | 0 | 25 | 0.3162 | 1.2403 |
| | 782 | 23 | 2 | 0 | 25 | 0.3162 | 1.2431 |
| | 784.5 | 23 | 2 | 0 | 25 | 0.3162 | 1.2458 |
| LTE Band 26 (QPSK,#RB=1,RMS-Value) | 814 | 23 | 2 | 0 | 25 | 0.3162 | 1.2776 |
| | 831.5 | 23 | 2 | 0 | 25 | 0.3162 | 1.2963 |
| | 849 | 23 | 2 | 0 | 25 | 0.3162 | 1.3149 |
| LTE Band 38 (QPSK,#RB=1,RMS-Value) | 2580 | 23 | 2 | 0 | 25 | 0.3162 | 2.8104 |
| | 2595 | 23 | 2 | 0 | 25 | 0.3162 | 2.8216 |
| | 2610 | 23 | 2 | 0 | 25 | 0.3162 | 2.8327 |
| LTE Band 41 (QPSK,#RB=1,RMS-Value) | 2506 | 23 | 2 | 0 | 25 | 0.3162 | 2.7551 |
| | 2593 | 23 | 2 | 0 | 25 | 0.3162 | 2.8201 |
| | 2680 | 23 | 2 | 0 | 25 | 0.3162 | 2.8844 |
| LTE Band 66 (QPSK,#RB=1,RMS-Value) | 1720 | 23 | 2 | 0 | 25 | 0.3162 | 2.1303 |
| | 1745 | 23 | 2 | 0 | 25 | 0.3162 | 2.1514 |
| | 1770 | 23 | 2 | 0 | 25 | 0.3162 | 2.1724 |

Note 1: Calculated maximum EIRP = Declared maximum conducted output power + Max. positive tolerance according manufacturer + Antenna Gain.

Note 2: Declared maximum EIRP = $10^{\left(\frac{\text{Calculated maximum EIRP}}{10}\right)}$.

Note 3: Equivalent EIRP = Declared maximum EIRP * Duty cycle.

Note 4: Margin = MPE Limit - MPE Value.

APPENDIX 1 PHOTOS OF TEST SETUP

N/A

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

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