

## RF EXPOSURE REPORT



**Applicant:** Telit Communications S.p.A.  
Via Stazione di Prosecco 5/b 34010 Sgonico - Trieste, Italy

**Manufacturer:** Telit Wireless Solutions. Co. Ltd.  
13th Fl., Shinyoung Securities Bld, 6, Gukjegeumyung-ro 8-gil,  
Yeongdeungpo-gu, Seoul, 07330, South Korea

**Product Name:** 5G Radio Module

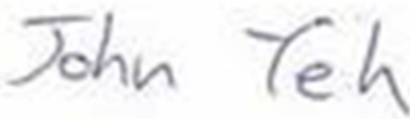
**Brand Name:** Telit Cinterion or 

**Model No.:** FE912C04-NA

**FCC ID** RI7FE912C04NA

**Date of EUT Received:** Nov. 26, 2024

**Issue Date:** Apr. 18, 2025



Approved By

John Yeh

**We hereby certify that:**

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091, KDB 447498 D01 v06.

The results of this report relate only to the sample identified in this report.

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## Revision History

| Report Number    | Revision | Description       | Issue Date    | Revised By  | Remark |
|------------------|----------|-------------------|---------------|-------------|--------|
| TESA2411000834ES | 00       | Original          | Mar. 28, 2025 | Kimmy Chiou |        |
| TESA2411000834ES | 01       | Modify N26 part90 | Apr. 18, 2025 | Kimmy Chiou | *      |
|                  |          |                   |               |             |        |
|                  |          |                   |               |             |        |
|                  |          |                   |               |             |        |
|                  |          |                   |               |             |        |
|                  |          |                   |               |             |        |
|                  |          |                   |               |             |        |

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.

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## Contents

|          |                                                  |          |
|----------|--------------------------------------------------|----------|
| <b>1</b> | <b>DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)</b> | <b>4</b> |
| 1.1      | PRODUCT DESCRIPTION                              | 4        |
| 1.2      | EVALUATION SITE                                  | 4        |
| 1.3      | ANTENNA INFORMATION                              | 5        |
| <b>2</b> | <b>MAXIMUM PERMISSIBLE EXPOSURE (MPE)</b>        | <b>6</b> |
| 2.1      | FCC STANDARD APPLICABLE                          | 6        |
| 2.2      | POWER DENSITY CALCULATION                        | 7        |
| 2.3      | MAXIMUM ALLOWABLE ANTENNA GAIN                   | 8        |

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## 1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

### 1.1 Product Description

|                   |                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------|
| Product Name:     | 5G Radio Module                                                                                      |
| Brand Name:       | Telit Cinterion or  |
| Model No.:        | FE912C04-NA                                                                                          |
| Hardware Version: | 1.00                                                                                                 |
| Firmware Version: | M0V.010001                                                                                           |

### 1.2 Evaluation site

| Laboratory                                            | Site Address                        |                                                                                                   | FCC Designation number | ISED Company Number | CAB Identifier |
|-------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------|------------------------|---------------------|----------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702) | <input checked="" type="checkbox"/> | No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan. | TW0027                 | 4620A               | TW3702         |
|                                                       | <input type="checkbox"/>            | No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.                                | TW0028                 | 4620E               |                |
|                                                       | <input type="checkbox"/>            | 1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Nei Hu District, Taipei City, 222 Taiwan.     | TW0029                 | 23862               |                |

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### 1.3 Antenna Information:

| Antenna Type              | Supplier |   |      | Antenna Part No. |                            |             |
|---------------------------|----------|---|------|------------------|----------------------------|-------------|
| Monopole                  | TAOGLAS  |   |      | TG.55.8113       |                            |             |
| Operating Frequency (MHz) |          |   |      | Anntenna Gain    | Insertion Loss of RF Cable | *Final Gain |
| LTE-Band 2                | 1850     | ~ | 1910 | 3.09             | 0.70                       | 2.39        |
| LTE-Band 4                | 1710     | ~ | 1755 | 3.09             | 0.70                       | 2.39        |
| LTE-Band 5                | 824      | ~ | 849  | 0.58             | 0.30                       | 0.28        |
| LTE-Band 7                | 2500     | ~ | 2570 | 1.69             | 0.80                       | 0.89        |
| LTE-Band 12               | 699      | ~ | 716  | -1.88            | 0.30                       | -2.18       |
| LTE-Band 13               | 777      | ~ | 787  | -1.88            | 0.30                       | -2.18       |
| LTE-Band 14               | 788      | ~ | 798  | -1.88            | 0.30                       | -2.18       |
| LTE-Band 17               | 704      | ~ | 716  | -1.88            | 0.30                       | -2.18       |
| LTE-Band 25               | 1850     | ~ | 1915 | 3.09             | 0.70                       | 2.39        |
| LTE-Band 26               | 824      | ~ | 849  | 0.58             | 0.30                       | 0.28        |
| LTE-Band 26 Part 90       | 814      | ~ | 824  | -1.88            | 0.30                       | -2.18       |
| LTE-Band 30               | 2305     | ~ | 2315 | 1.69             | 0.80                       | 0.89        |
| LTE-Band 41               | 2496     | ~ | 2690 | 1.69             | 0.80                       | 0.89        |
| LTE-Band 41(HPUE)         | 2496     | ~ | 2690 | 1.69             | 0.80                       | 0.89        |
| LTE-Band 48               | 3550     | ~ | 3700 | 1.51             | 1.10                       | 0.41        |
| LTE-Band 66               | 1710     | ~ | 1780 | 3.09             | 0.70                       | 2.39        |
| LTE-Band 71               | 663      | ~ | 698  | 0.14             | 0.30                       | -0.16       |
| n2                        | 1850     | ~ | 1910 | 3.09             | 0.70                       | 2.39        |
| n5                        | 824      | ~ | 849  | 0.58             | 0.30                       | 0.28        |
| n7                        | 2500     | ~ | 2570 | 1.69             | 0.80                       | 0.89        |
| n12                       | 699      | ~ | 716  | -1.88            | 0.30                       | -2.18       |
| n13                       | 777      | ~ | 787  | -1.88            | 0.30                       | -2.18       |
| n14                       | 788      | ~ | 798  | -1.88            | 0.30                       | -2.18       |
| n25                       | 1850     | ~ | 1915 | 3.09             | 0.70                       | 2.39        |
| n26                       | 824      | ~ | 849  | 0.58             | 0.30                       | 0.28        |
| n26 Part 90               | 814      | ~ | 824  | -1.88            | 0.30                       | -2.18       |
| n41_PC3                   | 2496     | ~ | 2690 | 1.69             | 0.80                       | 0.89        |
| n48                       | 3550     | ~ | 3700 | 1.51             | 1.10                       | 0.41        |
| n66                       | 1710     | ~ | 1780 | 3.09             | 0.70                       | 2.39        |
| n71                       | 663      | ~ | 698  | 0.14             | 0.30                       | -0.16       |
| n77_PC3                   | 3450     | ~ | 3980 | 1.51             | 1.10                       | 0.41        |
| n77_PC3                   | 3700     | ~ | 3980 | 1.51             | 1.10                       | 0.41        |
| n78_PC3                   | 3300     | ~ | 3800 | 1.51             | 1.10                       | 0.41        |

**Note:** Antenna information is provided by the applicant.

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## 2 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 2.1 FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissible Exposure (MPE)

| Frequency Range (MHz)                               | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|-----------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|-------------------------|
| Limits for General Population/Uncontrolled Exposure |                               |                               |                                     |                         |
| 0.3-1.34                                            | 614                           | 1.63                          | *(100)                              | 30                      |
| 1.34-30                                             | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | 30                      |
| 30-300                                              | 27.5                          | 0.073                         | 0.2                                 | 30                      |
| 300-1500                                            | /                             | /                             | f/1500                              | 30                      |
| 1500-100000                                         | /                             | /                             | 1.0                                 | 30                      |

f = frequency in MHz

\* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

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

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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## 2.2 Power Density Calculation

| Operation Mode      | Evaluation Frequency (MHz) | Operation Distance (cm) | Max.Output Power Include Tolerance (dBm) | Antenna Gain (dBi) | Max. EIRP (mW) | Power Density (PD) (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) | Pass / Fail | Power Density / Limit |
|---------------------|----------------------------|-------------------------|------------------------------------------|--------------------|----------------|------------------------------------------|-----------------------------|-------------|-----------------------|
| LTE-Band 2          | 1910.00                    | 20                      | 24.5                                     | 2.39               | 488.65         | 0.0973                                   | 1.000                       | Pass        | 0.097                 |
| LTE-Band 4          | 1755.00                    | 20                      | 24.5                                     | 2.39               | 488.65         | 0.097                                    | 1.000                       | Pass        | 0.097                 |
| LTE-Band 5          | 849.00                     | 20                      | 24.5                                     | 0.28               | 300.61         | 0.060                                    | 0.566                       | Pass        | 0.106                 |
| LTE-Band 7          | 2570.00                    | 20                      | 24.5                                     | 0.89               | 345.94         | 0.069                                    | 1.000                       | Pass        | 0.069                 |
| LTE-Band 12         | 716.00                     | 20                      | 24.5                                     | -2.18              | 170.61         | 0.034                                    | 0.477                       | Pass        | 0.071                 |
| LTE-Band 13         | 787.00                     | 20                      | 24.5                                     | -2.18              | 170.61         | 0.034                                    | 0.525                       | Pass        | 0.065                 |
| LTE-Band 14         | 798.00                     | 20                      | 24.5                                     | -2.18              | 170.61         | 0.034                                    | 0.532                       | Pass        | 0.064                 |
| LTE-Band 17         | 716.00                     | 20                      | 24.5                                     | -2.18              | 170.61         | 0.034                                    | 0.477                       | Pass        | 0.071                 |
| LTE-Band 25         | 1915.00                    | 20                      | 24.5                                     | 2.39               | 488.65         | 0.097                                    | 1.000                       | Pass        | 0.097                 |
| LTE-Band 26         | 849.00                     | 20                      | 24.5                                     | 0.28               | 300.61         | 0.060                                    | 0.566                       | Pass        | 0.106                 |
| LTE-Band 26 Part 90 | 824.00                     | 20                      | 24.5                                     | -2.18              | 170.61         | 0.034                                    | 0.549                       | Pass        | 0.062                 |
| LTE-Band 30         | 2315.00                    | 20                      | 23                                       | 0.89               | 244.91         | 0.049                                    | 1.000                       | Pass        | 0.049                 |
| LTE-Band 41         | 2690.00                    | 20                      | 24.5                                     | 0.89               | 345.94         | 0.069                                    | 1.000                       | Pass        | 0.069                 |
| LTE-Band 41(HPUE)   | 2690.00                    | 20                      | 27                                       | 0.89               | 615.18         | 0.122                                    | 1.000                       | Pass        | 0.122                 |
| LTE-Band 48         | 3700.00                    | 20                      | 22.5                                     | 0.41               | 195.43         | 0.039                                    | 1.000                       | Pass        | 0.039                 |
| LTE-Band 66         | 1780.00                    | 20                      | 24.5                                     | 2.39               | 488.65         | 0.097                                    | 1.000                       | Pass        | 0.097                 |
| LTE-Band 71         | 698.00                     | 20                      | 24.5                                     | -0.16              | 271.64         | 0.054                                    | 0.465                       | Pass        | 0.116                 |
| n2                  | 1910.00                    | 20                      | 24.5                                     | 2.39               | 488.65         | 0.097                                    | 1.000                       | Pass        | 0.097                 |
| n5                  | 849.00                     | 20                      | 24.5                                     | 0.28               | 300.61         | 0.060                                    | 0.566                       | Pass        | 0.106                 |
| n7                  | 2570.00                    | 20                      | 24.5                                     | 0.89               | 345.94         | 0.069                                    | 1.000                       | Pass        | 0.069                 |
| n12                 | 716.00                     | 20                      | 24.5                                     | -2.18              | 170.61         | 0.034                                    | 0.477                       | Pass        | 0.071                 |
| n13                 | 787.00                     | 20                      | 24.5                                     | -2.18              | 170.61         | 0.034                                    | 0.525                       | Pass        | 0.065                 |
| n14                 | 798.00                     | 20                      | 24.5                                     | -2.18              | 170.61         | 0.034                                    | 0.532                       | Pass        | 0.064                 |
| n25                 | 1915.00                    | 20                      | 24.5                                     | 2.39               | 488.65         | 0.097                                    | 1.000                       | Pass        | 0.097                 |
| n26                 | 849.00                     | 20                      | 24.5                                     | 0.28               | 300.61         | 0.060                                    | 0.566                       | Pass        | 0.106                 |
| n26 Part 90         | 824.00                     | 20                      | 24.5                                     | -2.18              | 170.61         | 0.034                                    | 0.549                       | Pass        | 0.062                 |
| n41_PC3             | 2690.00                    | 20                      | 24.5                                     | 0.89               | 345.94         | 0.069                                    | 1.000                       | Pass        | 0.069                 |
| n48                 | 3700.00                    | 20                      | 22.6                                     | 0.41               | 199.99         | 0.040                                    | 1.000                       | Pass        | 0.040                 |
| n66                 | 1780.00                    | 20                      | 24.5                                     | 2.39               | 488.65         | 0.097                                    | 1.000                       | Pass        | 0.097                 |
| n71                 | 698.00                     | 20                      | 24.5                                     | -0.16              | 271.64         | 0.054                                    | 0.465                       | Pass        | 0.116                 |
| n77_PC3             | 4200.00                    | 20                      | 24.5                                     | 0.41               | 309.74         | 0.062                                    | 1.000                       | Pass        | 0.062                 |
| n78_PC3             | 3800.00                    | 20                      | 24.5                                     | 0.41               | 309.74         | 0.062                                    | 1.000                       | Pass        | 0.062                 |

**Note:** For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

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## 2.3 Maximum Allowable Antenna Gain

| Operation Mode      | Freq. (MHz) | Operation Distance (cm) | Max. output Power include tolerance (dBm) | Max. Allowable Antenna Gain (dBi) | EIRP (ERP) Limit (dBm) | Max. output Power (mW) | Power Density (PD) (mW/cm <sup>2</sup> ) | PD Limit (mW/cm <sup>2</sup> ) | Allowable Gain according to EIRP (dBi) | Allowable Gain according to PD (dBi) | Power Density / Limit |
|---------------------|-------------|-------------------------|-------------------------------------------|-----------------------------------|------------------------|------------------------|------------------------------------------|--------------------------------|----------------------------------------|--------------------------------------|-----------------------|
| LTE-Band 2          | 1850.7      | 20                      | 24.50                                     | 8.50                              | 33.00                  | 1995.26                | 0.397                                    | 1.000                          | 8.50                                   | 12.51                                | 0.397                 |
| LTE-Band 4          | 1710.7      | 20                      | 24.50                                     | 5.50                              | 30.00                  | 1000.00                | 0.199                                    | 1.000                          | 5.50                                   | 12.51                                | 0.199                 |
| LTE-Band 5          | 824.7       | 20                      | 24.50                                     | 9.91                              | 38.45                  | 2760.58                | 0.549                                    | 0.550                          | 13.95                                  | 9.91                                 | 0.998                 |
| LTE-Band 7          | 2502.5      | 20                      | 24.50                                     | 8.50                              | 33.00                  | 1995.26                | 0.397                                    | 1.000                          | 8.50                                   | 12.51                                | 0.397                 |
| LTE-Band 12         | 699.7       | 20                      | 24.50                                     | 9.19                              | 34.77                  | 2338.84                | 0.466                                    | 0.466                          | 10.27                                  | 9.19                                 | 1.000                 |
| LTE-Band 13         | 779.5       | 20                      | 24.50                                     | 9.67                              | 34.77                  | 2612.16                | 0.520                                    | 0.520                          | 10.27                                  | 9.67                                 | 1.000                 |
| LTE-Band 14         | 788.0       | 20                      | 24.50                                     | 9.71                              | 34.77                  | 2636.33                | 0.525                                    | 0.525                          | 10.27                                  | 9.71                                 | 1.000                 |
| LTE-Band 17         | 704.0       | 20                      | 24.50                                     | 9.22                              | 34.77                  | 2355.05                | 0.469                                    | 0.469                          | 10.27                                  | 9.22                                 | 1.000                 |
| LTE-Band 25         | 1850.7      | 20                      | 24.50                                     | 8.50                              | 33.00                  | 1995.26                | 0.397                                    | 1.000                          | 8.50                                   | 12.51                                | 0.397                 |
| LTE-Band 26         | 824.7       | 20                      | 24.50                                     | 9.91                              | 38.45                  | 2760.58                | 0.549                                    | 0.550                          | 13.95                                  | 9.91                                 | 0.998                 |
| LTE-Band 26 Part 90 | 814.7       | 20                      | 24.50                                     | 9.86                              | 50.00                  | 2728.98                | 0.543                                    | 0.543                          | 25.50                                  | 9.86                                 | 1.000                 |
| LTE-Band 30         | 2307.5      | 20                      | 23.00                                     | 1.00                              | 24.00                  | 251.19                 | 0.050                                    | 1.000                          | 1.00                                   | 14.01                                | 0.050                 |
| LTE-Band 41         | 2498.5      | 20                      | 24.50                                     | 8.50                              | 33.00                  | 1995.26                | 0.397                                    | 1.000                          | 8.50                                   | 12.51                                | 0.397                 |
| LTE-Band 41(HPU)    | 2498.5      | 20                      | 27.00                                     | 6.00                              | 33.00                  | 1995.26                | 0.397                                    | 1.000                          | 6.00                                   | 10.01                                | 0.397                 |
| LTE-Band 48         | 3552.50     | 20                      | 22.50                                     | 0.50                              | 23.00                  | 199.53                 | 0.040                                    | 1.000                          | 0.50                                   | 14.51                                | 0.040                 |
| LTE-Band 66         | 1710.70     | 20                      | 24.50                                     | 5.50                              | 30.00                  | 1000.00                | 0.199                                    | 1.000                          | 5.50                                   | 12.51                                | 0.199                 |
| LTE-Band 71         | 665.50      | 20                      | 24.50                                     | 8.98                              | 34.77                  | 2228.44                | 0.444                                    | 0.444                          | 10.27                                  | 8.98                                 | 1.000                 |
| NR n2               | 1850.7      | 20                      | 24.50                                     | 8.50                              | 33.00                  | 1995.26                | 0.397                                    | 1.000                          | 8.50                                   | 12.51                                | 0.397                 |
| NR n5               | 824.7       | 20                      | 24.50                                     | 9.91                              | 38.45                  | 2760.58                | 0.549                                    | 0.550                          | 13.95                                  | 9.91                                 | 0.998                 |
| NR n7               | 2502.5      | 20                      | 24.50                                     | 8.50                              | 33.00                  | 1995.26                | 0.397                                    | 1.000                          | 8.50                                   | 12.51                                | 0.397                 |
| NR n12              | 699.7       | 20                      | 24.50                                     | 9.19                              | 34.77                  | 2338.84                | 0.466                                    | 0.466                          | 10.27                                  | 9.19                                 | 1.000                 |
| NR n13              | 779.5       | 20                      | 24.50                                     | 9.67                              | 34.77                  | 2612.16                | 0.520                                    | 0.520                          | 10.27                                  | 9.67                                 | 1.000                 |
| NR n14              | 788.0       | 20                      | 24.50                                     | 9.71                              | 34.77                  | 2636.33                | 0.525                                    | 0.525                          | 10.27                                  | 9.71                                 | 1.000                 |
| NR n25              | 1850.7      | 20                      | 24.50                                     | 8.50                              | 33.00                  | 1995.26                | 0.397                                    | 1.000                          | 8.50                                   | 12.51                                | 0.397                 |
| NR n26              | 824.7       | 20                      | 24.50                                     | 9.91                              | 38.45                  | 2760.58                | 0.549                                    | 0.550                          | 13.95                                  | 9.91                                 | 0.998                 |
| NR n26 Part 90      | 814.7       | 20                      | 24.50                                     | 9.86                              | 50.00                  | 2728.98                | 0.543                                    | 0.543                          | 25.50                                  | 9.86                                 | 1.000                 |
| NR n41_PC3          | 2498.5      | 20                      | 24.50                                     | 8.50                              | 33.00                  | 1995.26                | 0.397                                    | 1.000                          | 8.50                                   | 12.51                                | 0.397                 |
| NR n48              | 3552.50     | 20                      | 22.60                                     | 0.40                              | 23.00                  | 199.53                 | 0.040                                    | 1.000                          | 0.40                                   | 14.41                                | 0.040                 |
| NR n66              | 1710.70     | 20                      | 24.50                                     | 5.50                              | 30.00                  | 1000.00                | 0.199                                    | 1.000                          | 5.50                                   | 12.51                                | 0.199                 |
| NR n71              | 665.50      | 20                      | 24.50                                     | 8.98                              | 34.77                  | 2228.44                | 0.444                                    | 0.444                          | 10.27                                  | 8.98                                 | 1.000                 |
| NR n77_PC3          | 4200.00     | 20                      | 24.50                                     | 5.49                              | 29.99                  | 997.70                 | 0.199                                    | 1.000                          | 5.49                                   | 12.51                                | 0.199                 |
| NR n78_PC3          | 3800.00     | 20                      | 24.50                                     | 5.49                              | 29.99                  | 997.70                 | 0.199                                    | 1.000                          | 5.49                                   | 12.51                                | 0.199                 |

~ End of Report ~

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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