

TEST REPORT

of

FCC CFR 47 part 1, 1.1307(b), 1.1310

FCC ID: BEJTFGMEIBBCD1

Equipment Under Test : Telematics
Model Name : TFGMEIBBCD1
Variant Model Name(s) : Refer to the page 3
Applicant : LG Electronics USA
Manufacturer : LG Electronics Inc.
Date of Receipt : 2024.02.14
Date of Test(s) : 2024.02.19 ~ 2024.03.05
Date of Issue : 2024.03.06

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

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Tested by:



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Technical
Manager:



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SGS Korea Co., Ltd. Gunpo Laboratory



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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

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- CAB Identifier: KR0150

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1.2. Details of Applicant

Applicant : LG Electronics USA

Address : 111 Sylvan Avenue, North Building, Englewood Cliffs, New Jersey, United States, 07632

Contact Person : Kim, David

Phone No. : +1 201 470 2696

1.3. Details of Manufacturer

Company : LG Electronics Inc.

Address : 10, Magokjungang 10-ro, Gangseo-gu, Seoul, Korea, 07796

1.4. Description of EUT

| | | | |
|-----------------------------|---------------|--|---|
| Kind of Product | | Telematics | |
| Model Name | | TFGMEIBBCD1 | |
| Variant Model Names | | TFGMEIBBCD2, TFGMEIBBCD3 | |
| Serial Number | | Radiated: 351015130065751 | |
| Power Supply | | DC 13.5 V | |
| Rated Power | | WCDMA II, V: 24 dB m WCDMA IV: 23.5 dB m LTE Band 2, 7, 13, 14: 24 dB m LTE Band 5, 12: 24.2 dB m LTE Band 4, 66: 23.5 dB m NR Band 2, 5, 7, 12, 13, 14, 25, 26, 71: 24 dB m NR Band 41: 25 dB m NR Band 66: 23.5 dB m NR Band 77, 78: 25 dB m | |
| Frequency Range | Port 1 | WCDMA II: 1 850 MHz ~ 1 910 MHz WCDMA IV: 1 710 MHz ~ 1 755 MHz WCDMA V: 824 MHz ~ 849 MHz LTE Band 2: 1 850 MHz ~ 1 910 MHz LTE Band 4: 1 710 MHz ~ 1 755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2 500 MHz ~ 2 570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 66: 1 710 MHz ~ 1 780 MHz NR Band 2: 1 850 MHz ~ 1 910 MHz NR Band 5: 824 MHz ~ 849 MHz NR Band 7: 2 500 MHz ~ 2 570 MHz | NR Band 12: 699 MHz ~ 716 MHz NR Band 13: 777 MHz ~ 787 MHz NR Band 14: 788 MHz ~ 798 MHz NR Band 25: 1 850 MHz ~ 1 915 MHz NR Band 26: 814 MHz ~ 824 MHz NR Band 26: 824 MHz ~ 849 MHz NR Band 41: 2 496 MHz ~ 2 690 MHz NR Band 66: 1 710 MHz ~ 1 780 MHz NR Band 71: 663 MHz ~ 698 MHz NR Band 77: 3 450 MHz ~ 3 550 MHz NR Band 77: 3 700 MHz ~ 3 980 MHz NR Band 78: 3 450 MHz ~ 3 550 MHz NR Band 78: 3 700 MHz ~ 3 800 MHz |
| | Port 2 | NR Band 41: 2 496 MHz ~ 2 690 MHz NR Band 77: 3 450 MHz ~ 3 550 MHz NR Band 77: 3 700 MHz ~ 3 980 MHz NR Band 78: 3 450 MHz ~ 3 550 MHz NR Band 78: 3 700 MHz ~ 3 800 MHz | |
| Modulation Technique | | BPSK, QPSK, 16QAM, 64QAM | |
| Antenna Type | | Internal: Planar Inverted F Antenna External: Metal Antenna | |
| Antenna Gain* | | Refer to the clause 1.5 | |
| H/W Version | | REV.D | |
| S/W Version | | SW170 | |

1.5. Antenna Information

SISO

| Band | Operating Frequency (MHz) | Antenna Peak Gain (dB i) | | |
|------------------------------|---------------------------|--------------------------|-----------------------|-----------------------|
| | | External | | |
| | | Original [84933920] | Additional [85015365] | Additional [85015378] |
| NR 7 LTE 7 | 2 500 ~ 2 570 | 5.99 | <u>1.10</u> | -1.14 |
| NR 12 LTE 12 | 699 ~ 716 | -1.05 | -0.38 | <u>0.24</u> |
| NR 13 LTE 13 | 777 ~ 787 | -0.53 | 0 | <u>0.36</u> |
| NR 14 LTE 14 | 788 ~ 798 | -0.53 | 0.73 | <u>1.05</u> |
| NR 25/2 LTE 2 WCDMA II | 1 850 ~ 1 915 | 5.12 | 0.08 | <u>1.27</u> |
| NR 26 | 814 ~ 824 | 0.37 | 0.73 | <u>1.05</u> |
| WCDMA V NR 26/5 LTE 5 | 824 ~ 849 | 0.37 | 0.37 | <u>0.62</u> |
| NR 66 LTE 66/4 | 1 710 ~ 1 780 | 5.54 | <u>-0.90</u> | -1.53 |
| WCDMA IV | 1 710 ~ 1 755 | 5.19 | <u>-0.90</u> | -1.53 |
| NR 71 | 663 ~ 698 | 0.37 | -0.47 | <u>0.09</u> |
| 5G NR Band 41 | 2 496 ~ 2 690 | 0.09 | <u>2.21</u> | 1.75 |
| NR 77/78 Low Band | 3 450 ~ 3 550 | 3.24 | <u>2.94</u> | 2.88 |
| NR 77/78 High Band | 3 700 ~ 3 980 | 3.24 | 3.31 | <u>3.89</u> |

Note;

Antenna gains were compared between additional antennas and mark the worst gain of each band.

MIMO

| Operating Frequency (MHz) | | Port | Antenna Peak Gain (dB i) | | |
|---------------------------|---------------|-------------------------------|--------------------------|--------------------------|--------------------------|
| | | | External | | |
| | | | Original [84933920] | Additional [85015365] | Additional [85015378] |
| NR Band 41 | 2 496 ~ 2 690 | Port 1 | 5.99 | 3.15 | 2.41 |
| | | Port 2 | 0.09 | 2.21 | 1.75 |
| | | Port 1 + port 2 ¹⁾ | 6.54 | 5.70 | 5.10 |
| NR 77/78 Low Band | 3 450 ~ 3 550 | Port 1 | 6.29 | 0.24 | 0.43 |
| | | Port 2 | 3.24 | 2.94 | 2.88 |
| | | Port 1 + port 2 ¹⁾ | 7.91 | 4.70 | 4.75 |
| NR 77/78 High Band | 3 700 ~ 3 980 | Port 1 | 6.29 | 2.04 | 2.21 |
| | | Port 2 | 3.24 | 3.31 | 3.89 |
| | | Port 1 + port 2 ¹⁾ | 7.91 | 5.71 | 6.10 |

Remark;

- Port 1 means secondary cell and Port 2 means primary cell.

1) According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)d)(i),
 Port 1 + Port 2 Antenna Gain = $10 * \log[(10^{G_1/20} + 10^{G_2/20})^2 / N_{ANT}]$

Where,

- G₁ = antenna gain of port 1,
- G₂ = antenna gain of port 2,
- N_{ANT} = the number of antennas

2) Antenna gains were compared between additional antennas and mark the worst gain of each band.

1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 1 | | |
|------------------------------|------------------------|----------|
| Section | Test Item(s) | Result |
| 1.1307(b)(3) | RF Exposure Evaluation | Complied |

1.7. Test Report Revision

| Revision | Report Number | Date of Issue | Description |
|----------|----------------------|---------------|-------------|
| 0 | F690501-RF-RTL004880 | 2024.03.06 | Initial |

1.8. Description of Variant Model

| Model Name | | Description |
|----------------|-------------|--|
| Basic Model | TFGMEIBBCD1 | - Dual GNSS |
| Variant Models | TFGMEIBBCD2 | - Same to RF module with basic model except following function - Single GNSS and Ultra-super cruise service doesn't supported |
| | TFGMEIBBCD3 | - Same to RF module with basic model except following function - Single GNSS and Ultra-super cruise service doesn't supported - eUICC part is different with TFGMEIBBCD2 |

2. RF Exposure Evaluation

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

2.1. Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

The 1 mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph § 1.1307(b)(3)(ii)(A).

The 1 mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

2.2. MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

**Table 1: THRESHOLDS FOR SINGLE RF SOURCES
 SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION**

| RF Source Frequency | | | Minimum Distance | | | Threshold ERP |
|---------------------|---|----------------|--------------------|---|--------------------|--------------------------------------|
| f_L (MHz) | | f_H (MHz) | $\lambda_L / 2\pi$ | | $\lambda_H / 2\pi$ | W |
| 0.3 | - | 1.34 | 159 m | - | 35.6 m | 1 920 R ² |
| 1.34 | - | 30 | 35.6 m | - | 1.6 m | 3 450 R ² /f ² |
| 30 | - | 300 | 1.6 m | - | 159 mm | 3.83 R ² |
| 300 | - | 1 500 | 159 mm | - | 31.8 mm | 0.012 8 R ² f |
| 1 500 | - | 100 000 | 31.8 mm | - | 0.5 mm | 19.2 R ² |

Subscripts L and H are low and high; λ is wavelength.
 From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.

For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20 cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

2.3. SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of $\lambda/4$.

As for devices with antennas of length greater than $\lambda/4$ where the gain is not well defined, but always less than that of a half-wave dipole (length $\lambda/2$), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

2.4. Simultaneous Transmission SAR Test Exemption with Respect to Multiple Exemption Criteria

Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluated_k term) shall be used to determine exemption for simultaneous transmission according to Formula (C.1) [repeated from § 1.1307(b)(3)(ii)(B)].

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

3. Test Result

3.1. SAR-based Exemption

| Mode | Frequency Range (MHz) | Maximum Average Power (dB m) | Worst Antenna Gain (dB i) | Minimum Separation Distance (cm) | Maximum Average Power (mW) | ERP (mW) | Limits P _{th} (mW) | Ratio ¹⁾ | Result |
|-------------------------|-----------------------|------------------------------|---------------------------|----------------------------------|----------------------------|----------|-----------------------------|---------------------|--------|
| WCMDA II | 1 850 ~ 1910 | 25 | 1.27 | 16.9 | 316.23 | 258.23 | 2 244.16 | 0.14 | Pass |
| WCDMA IV | 1 710 ~ 1 755 | 24.5 | -0.90 | 16.9 | 281.84 | 139.64 | 2 250.62 | 0.13 | Pass |
| WCDMA V | 824 ~ 849 | 25 | 0.62 | 16.9 | 316.23 | 222.33 | 1 326.67 | 0.24 | Pass |
| LTE Band 2 | 1 850 ~ 1910 | 25 | 1.27 | 16.9 | 316.23 | 258.23 | 2 244.16 | 0.14 | Pass |
| LTE Band 5 | 824 ~ 849 | 25.2 | 0.62 | 16.9 | 331.13 | 232.81 | 1 326.67 | 0.25 | Pass |
| LTE Band 7 | 2 500 ~2 570 | 25 | 1.10 | 16.9 | 316.23 | 248.31 | 2 219.58 | 0.14 | Pass |
| LTE Band 12 | 699 ~ 716 | 25.2 | 0.24 | 16.9 | 331.13 | 213.30 | 1 145.92 | 0.29 | Pass |
| LTE Band 13 | 777 ~ 787 | 25 | 0.36 | 16.9 | 316.23 | 209.41 | 1 259.09 | 0.25 | Pass |
| LTE Band 14 | 788 ~ 798 | 25 | 1.05 | 16.9 | 316.23 | 245.47 | 1 274.95 | 0.25 | Pass |
| LTE Band 66/4 | 1 710 ~ 1 780 | 24.5 | -0.90 | 16.9 | 281.84 | 139.64 | 2 250.62 | 0.13 | Pass |
| 5G NR Band 7 | 2 500 ~2 570 | 25 | 1.10 | 16.9 | 316.23 | 248.31 | 2 219.58 | 0.14 | Pass |
| 5G NR Band 12 | 699 ~ 716 | 25 | 0.24 | 16.9 | 316.23 | 203.70 | 1 145.92 | 0.28 | Pass |
| 5G NR Band 13 | 777 ~ 787 | 25 | 0.36 | 16.9 | 316.23 | 209.41 | 1 259.09 | 0.25 | Pass |
| 5G NR Band 14 | 788 ~ 798 | 25 | 1.05 | 16.9 | 316.23 | 245.47 | 1 274.95 | 0.25 | Pass |
| 5G NR Band 25/2 | 1 850 ~ 1 915 | 25 | 1.27 | 16.9 | 316.23 | 258.23 | 2 244.16 | 0.14 | Pass |
| 5G NR Band 26/5 Part 22 | 824 ~ 849 | 25 | 0.62 | 16.9 | 316.23 | 222.33 | 1 326.67 | 0.24 | Pass |
| 5G NR Band 26 Part 90 | 814 ~ 824 | 25 | 1.05 | 16.9 | 316.23 | 245.47 | 1 312.33 | 0.24 | Pass |
| 5G NR Band 66 | 1 710 ~ 1 780 | 24.5 | -0.90 | 16.9 | 281.84 | 139.64 | 2 250.62 | 0.13 | Pass |
| 5G NR Band 71 | 663 ~ 698 | 25 | 0.09 | 16.9 | 316.23 | 196.79 | 1 093.22 | 0.29 | Pass |

| Mode | Frequency Range (kHz) | Maximum Average Power (dB m) | Worst Antenna Gain (dB i) | Minimum Separation Distance (cm) | Maximum Average Power (mW) | ERP (mW) | Limits P _{th} (mW) | Ratio ¹⁾ | Result |
|-------------------------|-----------------------|------------------------------|---------------------------|----------------------------------|----------------------------|----------|-----------------------------|---------------------|--------|
| 5G NR Band 41 Ant. 1 | 2 496 ~ 2 690 | 26 | 3.15 | 16.9 | 398.11 | 501.19 | 2 219.71 | 0.23 | Pass |
| 5G NR Band 41 Ant. 2 | 2 496 ~ 2 690 | 26 | 2.21 | 16.9 | 398.11 | 403.65 | 2 219.71 | 0.18 | Pass |
| 5G NR Band 77/78 Ant. 1 | 3 450 ~ 3 550 | 26 | 0.43 | 16.9 | 398.11 | 267.92 | 2 193.59 | 0.18 | Pass |
| 5G NR Band 77/78 Ant. 2 | 3 450 ~ 3 550 | 26 | 2.88 | 16.9 | 398.11 | 470.98 | 2 193.59 | 0.21 | Pass |
| 5G NR Band 77/78 Ant. 1 | 3 700 ~ 3 980 | 26 | 2.21 | 16.9 | 398.11 | 403.65 | 2 187.98 | 0.18 | Pass |
| 5G NR Band 77/78 Ant. 2 | 3 700 ~ 3 980 | 26 | 3.89 | 16.9 | 398.11 | 594.29 | 2 187.98 | 0.27 | Pass |

Note;

- Maximum average target power is the manufacturer's declared rated power.
- Maximum average output power = Maximum average target power (dB m) + Maximum tune up (dB).
- ERP (dB m) = Maximum average power (dB m) + Antenna gain (dB i) - 2.15 (dB)

1) A greater value between the ERP(dB m) and the Maximum average output power(dB m) is applied.

3.2. Simultaneous Transmission SAR Test Exemption with Respect to Multiple Exemption Criteria

| Mode | Band | P_i/P_{th} Ratio Mode A | P_i/P_{th} Ratio Mode B | $\Sigma P_i/P_{th}$ Ratio Mode A+B | Result |
|------------------|----------------------------|---------------------------------|---------------------------------|--|--------|
| Inter band CA | 2A-5A | 0.14 | 0.25 | 0.39 | Pass |
| | 2A-12A | 0.14 | 0.29 | 0.43 | Pass |
| | 2A-13A | 0.14 | 0.25 | 0.39 | Pass |
| | 4A-12A | 0.13 | 0.29 | 0.42 | Pass |
| | 5A-66A | 0.25 | 0.13 | 0.38 | Pass |
| | 12A-66A | 0.29 | 0.13 | 0.42 | Pass |
| | 13A-66A | 0.25 | 0.13 | 0.38 | Pass |
| Intra band CA | 5B | 0.25 | 0.25 | 0.50 | Pass |
| | 7C | 0.14 | 0.14 | 0.28 | Pass |
| | 66B/66C | 0.13 | 0.13 | 0.26 | Pass |
| EN-DC | NR 2 LTE 5, 12, 13, 14 | 0.14 | 0.29 | 0.43 | Pass |
| | NR 5 LTE 2, 7, 66 | 0.24 | 0.14 | 0.38 | Pass |
| | NR 7 LTE 5, 12 | 0.14 | 0.29 | 0.43 | Pass |
| | NR 12 LTE 2, 66 | 0.28 | 0.14 | 0.42 | Pass |
| | NR 13 LTE 66 | 0.25 | 0.13 | 0.38 | Pass |
| | NR 25 LTE 12 | 0.14 | 0.29 | 0.43 | Pass |
| | NR 66 LTE 5, 12, 13, 14 | 0.13 | 0.29 | 0.42 | Pass |
| | NR 71 LTE 2, 7, 66 | 0.29 | 0.14 | 0.43 | Pass |

| Mode | Band | P_i/P_{th} Ratio Mode A | P_i/P_{th} Ratio Mode B | $\Sigma P_i/P_{th}$ Ratio Mode A+B | Result |
|-------|------------------------------|---------------------------------|---------------------------------|--|--------|
| EN-DC | NR 41 LTE 5 | 0.18 | 0.25 | 0.43 | Pass |
| | NR 77 LTE 7 | 0.27 | 0.14 | 0.41 | Pass |
| | NR 78 LTE 2, 5, 7, 12, 66 | 0.27 | 0.29 | 0.56 | Pass |
| MIMO | NR 41 | 0.18 | 0.23 | 0.41 | Pass |
| | NR 77/78 Low | 0.21 | 0.18 | 0.39 | Pass |
| | NR 77/78 High | 0.27 | 0.18 | 0.45 | Pass |

Note;

- The Antenna gain was considered both External and Internal and only worst gain was calculated for RF exposure.
- Total power of simultaneous mode (Inter CA, Intra CA, EN-DC and MIMO) not exceed single mode output power.
- In case of EN-DC mode, only one combination was reported as worst case.

Conclusion: No SAR is required.

- End of the Test Report -