

# Garmin GMN-03000 RF Exposure Exhibit

Uncontrolled / Public Environment

HVIN: GMN-03000

47CFR 1.1307, RSS-102 Issue 6

## Summary and Simultaneous Radio 1 and 2 MPE Calculation

| Summary: Standalone MPE Calculations and Summary |                   |                    |                  |                                                |                           |                              |            |                           |
|--------------------------------------------------|-------------------|--------------------|------------------|------------------------------------------------|---------------------------|------------------------------|------------|---------------------------|
| Radio #1:                                        |                   |                    |                  |                                                |                           |                              |            |                           |
| Radio                                            | Tx Duty Cycle (%) | Tx Frequency (MHz) | Power Total (mW) | Antenna Gain (dBi)                             | $S_L$ (W/m <sup>2</sup> ) | $S_{20}$ (W/m <sup>2</sup> ) | $R_C$ (cm) | $S_C$ (W/m <sup>2</sup> ) |
| #1 BT (FCC)                                      | 100.0%            | 2441.0             | 1.1              | 8.0                                            | 10.0                      | 0.014                        | 0.7        | 10.0                      |
| #1 2G Wi-Fi (FCC)                                | 100.0%            | 2462.0             | 15.5             | 8.0                                            | 10.0                      | <b>0.194</b>                 | 3.8        | 5.4                       |
| #1 5G Wi-Fi (FCC)                                | 100.0%            | 5180.0             | 15.5             | -4.4                                           | 10.0                      | 0.011                        | 1.7        | 1.6                       |
|                                                  | Tx Duty Cycle (%) | Tx Frequency (MHz) | Power Total (mW) | Antenna Gain (dBi)                             | $S_L$ (W/m <sup>2</sup> ) | $S_{20}$ (W/m <sup>2</sup> ) | $R_C$ (cm) | $S_C$ (W/m <sup>2</sup> ) |
| #1 BT (ISED)                                     | 100.0%            | 2441.0             | 1.1              | 8.0                                            | 5.4                       | 0.014                        | 1.0        | 5.4                       |
| #1 2G Wi-Fi (ISED)                               | 100.0%            | 2462.0             | 15.5             | 8.0                                            | 5.4                       | <b>0.194</b>                 | 4.8        | 3.4                       |
| #1 5G Wi-Fi (ISED)                               | 100.0%            | 5180.0             | 15.5             | -4.4                                           | 9.0                       | 0.011                        | 1.7        | 1.5                       |
| Radio #2:                                        |                   |                    |                  |                                                |                           |                              |            |                           |
| Radio                                            | Tx Duty Cycle (%) | Tx Frequency (MHz) | Power Total (mW) | Antenna Gain (dBi)                             | $S_L$ (W/m <sup>2</sup> ) | $S_{20}$ (W/m <sup>2</sup> ) | $R_C$ (cm) | $S_C$ (W/m <sup>2</sup> ) |
| #2 2G Wi-Fi (FCC)                                | 100.0%            | 2462.0             | 17.1             | 8.0                                            | 10.0                      | <b>0.215</b>                 | 3.9        | 5.6                       |
| #2 5G Wi-Fi (FCC)                                | 100.0%            | 5240.0             | 18.3             | -4.4                                           | 10.0                      | 0.013                        | 1.7        | 1.8                       |
|                                                  | Tx Duty Cycle (%) | Tx Frequency (MHz) | Power Total (mW) | Antenna Gain (dBi)                             | $S_L$ (W/m <sup>2</sup> ) | $S_{20}$ (W/m <sup>2</sup> ) | $R_C$ (cm) | $S_C$ (W/m <sup>2</sup> ) |
| #2 2G Wi-Fi (ISED)                               | 100.0%            | 2462.0             | 17.1             | 8.0                                            | 5.4                       | <b>0.215</b>                 | 5.0        | 3.5                       |
| #2 5G Wi-Fi (ISED)                               | 100.0%            | 5240.0             | 18.3             | -4.4                                           | 9.1                       | 0.013                        | 1.8        | 1.7                       |
| FCC Simultaneous MPE Calculation (Worst Case)    |                   |                    |                  | ISED Simultaneous MPE Calculation (Worst Case) |                           |                              |            |                           |
|                                                  | #1 2G Wi-Fi (FCC) | #2 2G Wi-Fi (FCC)  |                  |                                                | #1 2G Wi-Fi (ISED)        | #2 2G Wi-Fi (ISED)           |            |                           |
| Tx Frequency (MHz)                               | 2462.0            | 2462.0             |                  | Tx Frequency (MHz)                             | 2462.0                    | 2462.0                       |            |                           |
| $S_{20}$ (W/m <sup>2</sup> )                     | 0.194             | 0.215              |                  | $S_{20}$ (W/m <sup>2</sup> )                   | 0.194                     | 0.215                        |            |                           |
| $S_L$ (W/m <sup>2</sup> )                        | 10.000            | 10.000             |                  | $S_L$ (W/m <sup>2</sup> )                      | 5.4                       | 5.4                          |            |                           |
| Power Ratio ( $S_L / S_{20}$ )                   | 0.0194            | 0.0215             |                  | Power Ratio ( $S_L / S_{20}$ )                 | 0.0356                    | 0.0394                       |            |                           |
| Sum of Power Ratios at compliance distance       |                   | 0.041              |                  | Sum of Power Ratios at compliance distance     |                           | 0.075                        |            |                           |
| Requirement = $\Sigma$ of MPE Ratio $\leq 1$     |                   | EXEMPT             |                  | Requirement = $\Sigma$ of MPE Ratio $\leq 1$   |                           | EXEMPT                       |            |                           |

## Industry Canada Exemption Limits:

| Frequency (MHz) | $\leq 5$ mm (mW) | 10 mm (mW) | 15 mm (mW) | 20 mm (mW) | 25 mm (mW) | 30 mm (mW) | 35 mm (mW) | 40 mm (mW) | 45 mm (mW) | $> 50$ mm (mW) |
|-----------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|
| $\leq 300$      | 45               | 116        | 139        | 163        | 189        | 216        | 246        | 280        | 319        | 362            |
| 450             | 32               | 71         | 87         | 104        | 124        | 147        | 175        | 208        | 248        | 296            |
| 835             | 21               | 32         | 41         | 54         | 72         | 96         | 129        | 172        | 228        | 298            |
| 1900            | 6                | 10         | 18         | 33         | 57         | 92         | 138        | 194        | 257        | 323            |
| 2450            | 3                | 7          | 16         | 32         | 56         | 89         | 128        | 170        | 209        | 245            |
| 3500            | 2                | 6          | 15         | 29         | 50         | 72         | 94         | 114        | 134        | 158            |
| 5800            | 1                | 5          | 13         | 23         | 32         | 41         | 54         | 74         | 102        | 128            |

## Conclusion

The GMN-03000, a device that is deployed in public, uncontrolled environments, is exempt from routine RF exposure evaluation per guidelines of both FCC and Industry Canada. For RF exposure safety, personnel should maintain a safe distance of **20 cm** from the product.

# Garmin GMN-03000 RF Exposure Exhibit

Uncontrolled / Public Environment

HVIN: GMN-03000

47CFR 1.1307, RSS-102 Issue 6

## Radio 1 BT MPE Calculation

|                                                                                                                                                                              |                             |                                                          |                                                                                     |                               |                                    |                                     |                     |                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|------------------------------------|-------------------------------------|---------------------|------------------------------------|
|                                                                                                                                                                              |                             |                                                          |                                                                                     | dBd + 2.17 = dBi              | Antenna Gain (dBi)                 | 8.0                                 |                     |                                    |
| Tx Frequency (MHz)                                                                                                                                                           | 2441                        | Peak Power (Watts)                                       | 0.0011                                                                              |                               | dBi to dBd                         | 2.2                                 |                     |                                    |
|                                                                                                                                                                              |                             | Peak Power (mW)                                          | 1.1                                                                                 |                               | Antenna Gain (dBd)                 | 5.83                                |                     |                                    |
| Cable Loss (dB)                                                                                                                                                              | 0.0                         | (dBm)                                                    | 0.4                                                                                 |                               | Antenna Gain (numeric)             | 6.3                                 |                     |                                    |
|                                                                                                                                                                              |                             | Duty Cycle (%)                                           | 100.0%                                                                              |                               | Antenna minus cable (dBi)          | 8.00                                |                     |                                    |
|                                                                                                                                                                              |                             | Adjusted Power (mW)                                      | 1.1                                                                                 |                               |                                    |                                     |                     |                                    |
|                                                                                                                                                                              |                             | Adjusted Power (dBm)                                     | 0.4                                                                                 |                               |                                    |                                     |                     |                                    |
|                                                                                                                                                                              |                             | Calculated ERP (mw)                                      | 4.198                                                                               | EIRP = Po(dBm) + Gain (dB)    |                                    |                                     |                     |                                    |
|                                                                                                                                                                              |                             | Calculated EIRP (mw)                                     | 6.918                                                                               |                               | Radiated (EIRP) dBm                | 8.400                               |                     |                                    |
|                                                                                                                                                                              |                             |                                                          |                                                                                     | ERP = EIRP - 2.17 dB          |                                    |                                     |                     |                                    |
|                                                                                                                                                                              |                             |                                                          |                                                                                     |                               | Radiated (ERP) dBm                 | 6.230                               |                     |                                    |
| <div>Power density (S)</div> <div>EIRP</div> <div>= mW/cm<sup>2</sup></div> <div>4 π r<sup>2</sup></div> <div>r (cm) EIRP (mW)</div>                                         |                             | FCC radio frequency radiation exposure limits per 1.1310 |                                                                                     |                               |                                    |                                     |                     |                                    |
|                                                                                                                                                                              |                             | Frequency (MHz)                                          | Occupational Limit W/m <sup>2</sup>                                                 | Public Limit W/m <sup>2</sup> |                                    |                                     |                     |                                    |
|                                                                                                                                                                              |                             | 300-1,500                                                | f/30                                                                                | f/150                         |                                    |                                     |                     |                                    |
|                                                                                                                                                                              |                             | 1,500-100,000                                            | 50                                                                                  | 10                            |                                    |                                     |                     |                                    |
|                                                                                                                                                                              |                             | 2441.0                                                   | 50                                                                                  | 10                            |                                    |                                     |                     |                                    |
| IC radio frequency radiation exposure limits per RSS-102, Issue 6 Field Reference Level FRL Limit (W/m <sup>2</sup> )                                                        |                             |                                                          |                                                                                     |                               |                                    |                                     |                     |                                    |
| Frequency (MHz)                                                                                                                                                              | Uncontrolled                |                                                          | Frequency (MHz)                                                                     | Controlled                    |                                    |                                     |                     |                                    |
| 10-20                                                                                                                                                                        | 2.0                         | 2.0                                                      | 10-20                                                                               | 10.0                          | 10.0                               |                                     |                     |                                    |
| 20-48                                                                                                                                                                        | 8.944/f <sup>0.5</sup>      | 0.2                                                      | 20-48                                                                               | 44.72/f <sup>0.5</sup>        | 0.9                                |                                     |                     |                                    |
| 48-300                                                                                                                                                                       | 1.291                       | 1.291                                                    | 48-100                                                                              | 6.455                         | 6.455                              |                                     |                     |                                    |
| 300-6,000                                                                                                                                                                    | 0.02619*f <sup>0.6834</sup> | 5.4                                                      | 100-6,000                                                                           | 0.6455*f <sup>0.5</sup>       | 31.9                               |                                     |                     |                                    |
| 6,000-15,000                                                                                                                                                                 | 5.0                         | 10.0                                                     | 6,000-15,000                                                                        | 50.0                          | 50.0                               |                                     |                     |                                    |
| 15,000-150,000                                                                                                                                                               | 10                          | 10.0                                                     | 15,000-150,000                                                                      | 50.0                          | 50.0                               |                                     |                     |                                    |
| 150,000-300,000                                                                                                                                                              | 6.67*(10 <sup>-5</sup> )*f  | 0.2                                                      | 150,000-300,000                                                                     | 3.33*(10 <sup>-4</sup> )*f    | 0.8                                |                                     |                     |                                    |
|                                                                                                                                                                              |                             |                                                          |                                                                                     |                               |                                    |                                     |                     |                                    |
| f = Transmit Frequency (MHz)                                                                                                                                                 |                             |                                                          | f (MHz) =                                                                           | FCC                           | 2441.0                             | ISD                                 | 2441.0              | MHz                                |
| P <sub>T</sub> = Power Input to Antenna (mW)                                                                                                                                 |                             |                                                          | P <sub>T</sub> (mW) =                                                               |                               | 1.1                                |                                     | 1.1                 | mW                                 |
| Duty cycle (percentage of operation)                                                                                                                                         |                             |                                                          | % =                                                                                 |                               | 100.0%                             |                                     | 100.0%              | %                                  |
| P <sub>A</sub> = Adjusted Power due to Duty cycle or Cable Loss (mW)                                                                                                         |                             |                                                          | P <sub>A</sub> (mW) =                                                               |                               | 1.10                               |                                     | 1.10                | mW                                 |
| G <sub>N</sub> = Numeric Gain of the Antenna                                                                                                                                 |                             |                                                          | G <sub>N</sub> (numeric) =                                                          |                               | 6.31                               |                                     | 6.31                | numeric                            |
| S <sub>20</sub> = Power Density of device at 20cm (mW/m <sup>2</sup> )                                                                                                       |                             |                                                          | S <sub>20</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>20</sub> ) <sup>2</sup> |                               | 0.00                               |                                     | 0.00                | mW/m <sup>2</sup>                  |
| S <sub>20</sub> = Power Density of device at 20cm (W/m <sup>2</sup> )                                                                                                        |                             |                                                          | S <sub>20</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>20</sub> ) <sup>2</sup> |                               | 0.01                               |                                     | 0.01                | W/m <sup>2</sup>                   |
| S <sub>L</sub> = Power Density Limit (W/m <sup>2</sup> )                                                                                                                     |                             |                                                          | S <sub>L</sub> (W/m <sup>2</sup> )=                                                 |                               | 10.00                              |                                     | 5.41                | W/m <sup>2</sup>                   |
| R <sub>C</sub> = Minimum distance to the Radiating Element for Compliance ( R <sub>C</sub> =√(P <sub>A</sub> G <sub>N</sub> /4πS <sub>L</sub> ))                             |                             |                                                          | R <sub>C</sub> (cm) =                                                               |                               | 0.7                                |                                     | 1.0                 | cm                                 |
| S <sub>C</sub> = Power Density of the device at the Compliance Distance R <sub>C</sub> ( S <sub>C</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>C</sub> ) <sup>2</sup> ) |                             |                                                          | S <sub>C</sub> (W/m <sup>2</sup> ) =                                                |                               | 10.00                              |                                     | 5.41                | W/m <sup>2</sup>                   |
| R <sub>20</sub> = 20cm                                                                                                                                                       |                             |                                                          | R20=                                                                                |                               | 20                                 |                                     | 20                  | cm                                 |
| Summary: Standalone MPE Calculations and Summary                                                                                                                             |                             |                                                          |                                                                                     |                               |                                    |                                     |                     |                                    |
| Radio                                                                                                                                                                        | x Duty Cycle (%)            | Tx Frequency (MHz)                                       | Power Total (mW)                                                                    | Antenna Gain (dBi)            | S <sub>L</sub> (W/m <sup>2</sup> ) | S <sub>20</sub> (W/m <sup>2</sup> ) | R <sub>C</sub> (cm) | S <sub>C</sub> (W/m <sup>2</sup> ) |
| #1 BT (FCC)                                                                                                                                                                  | 100.0%                      | 2441.0                                                   | 1.1                                                                                 | 8.0                           | 10.0                               | 0.01                                | 0.7                 | 10.0                               |
| #1 BT (ISD)                                                                                                                                                                  | 100.0%                      | 2441.0                                                   | 1.1                                                                                 | 8.0                           | 5.4                                | 0.01                                | 1.0                 | 5.4                                |

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Revision 2

HVIN: GMN-03000

Test #: 250128

Test to: 47CFR 2.1307, RSS-102 Iss.6

File: GMN-03000 RFExp FCC-IC 250128 r2

Garmin International, Inc // Garmin AT, Inc

FCC ID: IPH-04286 IC ID: 1312A-04286

SN: 78F000511 & 78F000512

Date: July 25, 2025

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# Garmin GMN-03000 RF Exposure Exhibit

Uncontrolled / Public Environment

HVIN: GMN-03000

47CFR 1.1307, RSS-102 Issue 6

## Radio 1 2G WiFi MPE Calculation

|                                                                                                                                                                            |                             |                                                                                     |                                        |                               |                                    |                                     |                     |                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|------------------------------------|-------------------------------------|---------------------|------------------------------------|
|                                                                                                                                                                            |                             |                                                                                     |                                        |                               | Antenna Gain (dBi)                 | 8.0                                 |                     |                                    |
|                                                                                                                                                                            |                             |                                                                                     |                                        | dBd + 2.17 = dBi              | dBi to dBd                         | 2.2                                 |                     |                                    |
| Tx Frequency (MHz)                                                                                                                                                         | 2462                        | Peak Power (Watts)                                                                  | 0.0155                                 |                               | Antenna Gain (dBd)                 | 5.83                                |                     |                                    |
|                                                                                                                                                                            |                             | Peak Power (mW)                                                                     | 15.5                                   |                               | Antenna Gain (numeric)             | 6.3                                 |                     |                                    |
| Cable Loss (dB)                                                                                                                                                            | 0.0                         | (dBm)                                                                               | 11.9                                   |                               | Antenna minus cable (dBi)          | 8.0                                 |                     |                                    |
|                                                                                                                                                                            |                             | Max Duty Cycle (%)                                                                  | 100.0%                                 |                               |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Adjusted Power (mW)                                                                 | 15.5                                   |                               |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Adjusted Power (dBm)                                                                | 11.9                                   |                               |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             |                                                                                     |                                        |                               |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Calculated ERP (mw)                                                                 | 59.156                                 |                               | ERP = Po(dBm) + Gain (dB)          |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Calculated EIRP (mw)                                                                | 97.499                                 |                               | Radiated (EIRP) dBm                | 19.890                              |                     |                                    |
|                                                                                                                                                                            |                             |                                                                                     |                                        |                               | ERP = EIRP - 2.17 dB               |                                     |                     |                                    |
|                                                                                                                                                                            |                             |                                                                                     |                                        |                               | Radiated (ERP) dBm                 | 17.720                              |                     |                                    |
| <div>Power density (S)</div> <div>EIRP</div> <div>----- = mW/cm<sup>2</sup></div> <div>4 π r<sup>2</sup></div> <div>r (cm) EIRP (mW)</div>                                 |                             | FCC radio frequency radiation exposure limits per 1.1310                            |                                        |                               |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Frequency (MHz)                                                                     | Occupational Limit W/m <sup>2</sup>    | Public Limit W/m <sup>2</sup> |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | 300-1,500                                                                           | f/30                                   | f/150                         |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | 1,500-100,000                                                                       | 50                                     | 10                            |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | 2462.0                                                                              | 50                                     | 10                            |                                    |                                     |                     |                                    |
| IC radio frequency radiation exposure limits per RSS-102, Issue 6 Field Reference Level FRL Limit (W/m <sup>2</sup> )                                                      |                             |                                                                                     |                                        |                               |                                    |                                     |                     |                                    |
| Frequency (MHz)                                                                                                                                                            | Uncontrolled                |                                                                                     | Frequency (MHz)                        | Controlled                    |                                    |                                     |                     |                                    |
| 10-20                                                                                                                                                                      | 2.0                         | 2.0                                                                                 | 10-20                                  | 10.0                          | 10.0                               |                                     |                     |                                    |
| 20-48                                                                                                                                                                      | 8.944/f <sup>0.5</sup>      | 0.2                                                                                 | 20-48                                  | 44.72/f <sup>0.5</sup>        | 0.9                                |                                     |                     |                                    |
| 48-300                                                                                                                                                                     | 1.291                       | 1.291                                                                               | 48-100                                 | 6.455                         | 6.455                              |                                     |                     |                                    |
| 300-6,000                                                                                                                                                                  | 0.02619*f <sup>0.6834</sup> | 5.4                                                                                 | 100-6,000                              | 0.6455*f <sup>0.5</sup>       | 32.0                               |                                     |                     |                                    |
| 6,000-15,000                                                                                                                                                               | 5.0                         | 10.0                                                                                | 6,000-15,000                           | 50.0                          | 50.0                               |                                     |                     |                                    |
| 15,000-150,000                                                                                                                                                             | 10                          | 10.0                                                                                | 15,000-150,000                         | 50.0                          | 50.0                               |                                     |                     |                                    |
| 150,000-300,000                                                                                                                                                            | 6.67*(10 <sup>-5</sup> )*f  | 0.2                                                                                 | 150,000-300,000                        | 3.33*(10 <sup>-4</sup> )*f    | 0.8                                |                                     |                     |                                    |
|                                                                                                                                                                            |                             |                                                                                     |                                        |                               |                                    |                                     |                     |                                    |
| f = Transmit Frequency (MHz)                                                                                                                                               |                             |                                                                                     | f (MHz) =                              | 2462.0                        | 2462.0 MHz                         |                                     |                     |                                    |
| P <sub>T</sub> = Power Input to Antenna (mW)                                                                                                                               |                             |                                                                                     | P <sub>T</sub> (mW) =                  | 15.5                          | 15.5 mW                            |                                     |                     |                                    |
| Duty cycle (percentage of operation)                                                                                                                                       |                             |                                                                                     | % =                                    | 100.0%                        | 100.0% %                           |                                     |                     |                                    |
| P <sub>A</sub> = Adjusted Power due to Duty cycle or Cable Loss (mW)                                                                                                       |                             |                                                                                     | P <sub>A</sub> (mW) =                  | 15.45                         | 15.45 mW                           |                                     |                     |                                    |
| G <sub>N</sub> = Numeric Gain of the Antenna                                                                                                                               |                             |                                                                                     | GN (numeric) =                         | 6.31                          | 6.31 numeric                       |                                     |                     |                                    |
| S <sub>20</sub> = Power Density of device at 20cm (mW/m <sup>2</sup> )                                                                                                     |                             | S <sub>20</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>20</sub> ) <sup>2</sup> | S <sub>20</sub> (mW/m <sup>2</sup> ) = | 0.02                          | 0.02 mW/m <sup>2</sup>             |                                     |                     |                                    |
| S <sub>20</sub> = Power Density of device at 20cm (W/m <sup>2</sup> )                                                                                                      |                             | S <sub>20</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>20</sub> ) <sup>2</sup> | S <sub>20</sub> (W/m <sup>2</sup> ) =  | 0.19                          | 0.19 W/m <sup>2</sup>              |                                     |                     |                                    |
| S <sub>L</sub> = Power Density Limit (W/m <sup>2</sup> )                                                                                                                   |                             |                                                                                     | S <sub>L</sub> (W/m <sup>2</sup> )=    | 10.00                         | 5.44 W/m <sup>2</sup>              |                                     |                     |                                    |
| R <sub>C</sub> = Minimum distance to the Radiating Element for Compliance ( R <sub>C</sub> =√(P <sub>A</sub> G <sub>N</sub> /4πS <sub>L</sub> ))                           |                             |                                                                                     | R <sub>C</sub> (cm) =                  | 3.8                           | 4.8 cm                             |                                     |                     |                                    |
| S <sub>C</sub> = Power Density of the device at the Compliance Distance R <sub>C</sub> ( S <sub>C</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>C</sub> ) <sup>2</sup> |                             |                                                                                     | S <sub>C</sub> (W/m <sup>2</sup> ) =   | 5.41                          | 3.40 W/m <sup>2</sup>              |                                     |                     |                                    |
| R <sub>20</sub> = 20cm                                                                                                                                                     |                             |                                                                                     | R20=                                   | 20                            | 20 cm                              |                                     |                     |                                    |
|                                                                                                                                                                            |                             |                                                                                     |                                        |                               |                                    |                                     |                     |                                    |
| Summary: Standalone MPE Calculations and Summary                                                                                                                           |                             |                                                                                     |                                        |                               |                                    |                                     |                     |                                    |
| Radio                                                                                                                                                                      | x Duty Cycle (%)            | Tx Frequency (MHz)                                                                  | Power Total (mW)                       | Antenna Gain (dBi)            | S <sub>L</sub> (W/m <sup>2</sup> ) | S <sub>20</sub> (W/m <sup>2</sup> ) | R <sub>C</sub> (cm) | S <sub>C</sub> (W/m <sup>2</sup> ) |
| #1 2G WiFi (FCC)                                                                                                                                                           | 100.0%                      | 2462                                                                                | 15.5                                   | 8.0                           | 10.0                               | 0.19                                | 3.8                 | 5.41                               |
| #1 2G WiFi (ISED)                                                                                                                                                          | 100.0%                      | 2462                                                                                | 15.45                                  | 8.0                           | 5.44                               | 0.19                                | 4.8                 | 3.40                               |

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Phone: (913) 660-0666

Revision 2

HVIN: GMN-03000

Test #: 250128

Test to: 47CFR 2.1307, RSS-102 Iss.6

File: GMN-03000 RFExp FCC-IC 250128 r2

Garmin International, Inc // Garmin AT, Inc

FCC ID: IPH-04286 IC ID: 1312A-04286

SN: 78F000511 & 78F000512

Date: July 25, 2025

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# Garmin GMN-03000 RF Exposure Exhibit

Uncontrolled / Public Environment

HVIN: GMN-03000

47CFR 1.1307, RSS-102 Issue 6

## Radio 1 5G WiFi MPE Calculation

|                                                                                                                                                                            |                             |                                                          |                                                                                     |                                        |                                    |                                     |                     |                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|-------------------------------------|---------------------|------------------------------------|
|                                                                                                                                                                            |                             |                                                          |                                                                                     |                                        | Antenna Gain (dBi)                 | -4.4                                |                     |                                    |
|                                                                                                                                                                            |                             |                                                          |                                                                                     | dBd + 2.17 = dBi                       | dBi to dBd                         | 2.2                                 |                     |                                    |
| Tx Frequency (MHz)                                                                                                                                                         | 5180                        | Peak Power (Watts)                                       | 0.0155                                                                              |                                        | Antenna Gain (dBd)                 | -6.57                               |                     |                                    |
|                                                                                                                                                                            |                             | Peak Power (mW)                                          | 15.5                                                                                |                                        | Antenna Gain (numeric)             | 0.4                                 |                     |                                    |
| Cable Loss (dB)                                                                                                                                                            | 0.0                         | (dBm)                                                    | 11.9                                                                                |                                        | Antenna minus cable (dBi)          | -4.4                                |                     |                                    |
|                                                                                                                                                                            |                             | Max Duty Cycle (%)                                       | 100.0%                                                                              |                                        |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Adjusted Power (mW)                                      | 15.5                                                                                |                                        |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Adjusted Power (dBm)                                     | 11.9                                                                                |                                        |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Calculated ERP (mw)                                      | 3.412                                                                               |                                        | ERP = Po(dBm) + Gain (dB)          |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Calculated EIRP (mw)                                     | 5.623                                                                               |                                        | Radiated (EIRP) dBm                | 7.500                               |                     |                                    |
|                                                                                                                                                                            |                             |                                                          |                                                                                     | ERP = EIRP - 2.17 dB                   |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             |                                                          |                                                                                     |                                        | Radiated (ERP) dBm                 | 5.330                               |                     |                                    |
| <div>Power density (S)</div> <div>EIRP</div> <div>----- = mW/cm<sup>2</sup></div> <div>4 π r<sup>2</sup></div> <div>r (cm) EIRP (mW)</div>                                 |                             | FCC radio frequency radiation exposure limits per 1.1310 |                                                                                     |                                        |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Frequency (MHz)                                          | Occupational Limit W/m <sup>2</sup>                                                 | Public Limit W/m <sup>2</sup>          |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | 300-1,500                                                | f/30                                                                                | f/150                                  |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | 1,500-100,000                                            | 50                                                                                  | 10                                     |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | 5180.0                                                   | 50                                                                                  | 10                                     |                                    |                                     |                     |                                    |
| IC radio frequency radiation exposure limits per RSS-102, Issue 6 Field Reference Level FRL Limit (W/m <sup>2</sup> )                                                      |                             |                                                          |                                                                                     |                                        |                                    |                                     |                     |                                    |
| Frequency (MHz)                                                                                                                                                            | Uncontrolled                |                                                          | Frequency (MHz)                                                                     | Controlled                             |                                    |                                     |                     |                                    |
| 10-20                                                                                                                                                                      | 2.0                         | 2.0                                                      | 10-20                                                                               | 10.0                                   | 10.0                               |                                     |                     |                                    |
| 20-48                                                                                                                                                                      | 8.944/f <sup>0.5</sup>      | 0.1                                                      | 20-48                                                                               | 44.72/f <sup>0.5</sup>                 | 0.6                                |                                     |                     |                                    |
| 48-300                                                                                                                                                                     | 1.291                       | 1.291                                                    | 48-100                                                                              | 6.455                                  | 6.455                              |                                     |                     |                                    |
| 300-6,000                                                                                                                                                                  | 0.02619*f <sup>0.6834</sup> | 9.0                                                      | 100-6,000                                                                           | 0.6455*f <sup>0.5</sup>                | 46.5                               |                                     |                     |                                    |
| 6,000-15,000                                                                                                                                                               | 5.0                         | 10.0                                                     | 6,000-15,000                                                                        | 50.0                                   | 50.0                               |                                     |                     |                                    |
| 15,000-150,000                                                                                                                                                             | 10                          | 10.0                                                     | 15,000-150,000                                                                      | 50.0                                   | 50.0                               |                                     |                     |                                    |
| 150,000-300,000                                                                                                                                                            | 6.67*(10 <sup>-5</sup> )*f  | 0.3                                                      | 150,000-300,000                                                                     | 3.33*(10 <sup>-4</sup> )*f             | 1.7                                |                                     |                     |                                    |
|                                                                                                                                                                            |                             |                                                          |                                                                                     |                                        |                                    | FCC                                 | ISED                |                                    |
| f = Transmit Frequency (MHz)                                                                                                                                               |                             |                                                          |                                                                                     | f (MHz) =                              | 5180.0                             | 5180.0                              | MHz                 |                                    |
| P <sub>T</sub> = Power Input to Antenna (mW)                                                                                                                               |                             |                                                          |                                                                                     | P <sub>T</sub> (mW) =                  | 15.5                               | 15.5                                | mW                  |                                    |
| Duty cycle (percentage of operation)                                                                                                                                       |                             |                                                          |                                                                                     | % =                                    | 100.0%                             | 100.0%                              | %                   |                                    |
| P <sub>A</sub> = Adjusted Power due to Duty cycle or Cable Loss (mW)                                                                                                       |                             |                                                          |                                                                                     | P <sub>A</sub> (mW) =                  | 15.49                              | 15.49                               | mW                  |                                    |
| G <sub>N</sub> = Numeric Gain of the Antenna                                                                                                                               |                             |                                                          |                                                                                     | GN (numeric) =                         | 0.36                               | 0.36                                | numeric             |                                    |
| S <sub>20</sub> = Power Density of device at 20cm (mW/m <sup>2</sup> )                                                                                                     |                             |                                                          | S <sub>20</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>20</sub> ) <sup>2</sup> | S <sub>20</sub> (mW/m <sup>2</sup> ) = | 0.0011                             | 0.0011                              | mW/m <sup>2</sup>   |                                    |
| S <sub>20</sub> = Power Density of device at 20cm (W/m <sup>2</sup> )                                                                                                      |                             |                                                          | S <sub>20</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>20</sub> ) <sup>2</sup> | S <sub>20</sub> (W/m <sup>2</sup> ) =  | 0.0112                             | 0.0112                              | W/m <sup>2</sup>    |                                    |
| S <sub>L</sub> = Power Density Limit (W/m <sup>2</sup> )                                                                                                                   |                             |                                                          |                                                                                     | S <sub>L</sub> (W/m <sup>2</sup> ) =   | 10.00                              | 9.05                                | W/m <sup>2</sup>    |                                    |
| R <sub>C</sub> = Minimum distance to the Radiating Element for Compliance ( R <sub>C</sub> =√(P <sub>A</sub> G <sub>N</sub> /4πS <sub>L</sub> )                            |                             |                                                          |                                                                                     | R <sub>C</sub> (cm) =                  | 1.7                                | 1.7                                 | cm                  |                                    |
| S <sub>C</sub> = Power Density of the device at the Compliance Distance R <sub>C</sub> ( S <sub>C</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>C</sub> ) <sup>2</sup> |                             |                                                          |                                                                                     | S <sub>C</sub> (W/m <sup>2</sup> ) =   | 1.61                               | 1.54                                | W/m <sup>2</sup>    |                                    |
| R <sub>20</sub> = 20cm                                                                                                                                                     |                             |                                                          |                                                                                     | R <sub>20</sub> =                      | 20                                 | 20                                  | cm                  |                                    |
| Summary: Standalone MPE Calculations and Summary                                                                                                                           |                             |                                                          |                                                                                     |                                        |                                    |                                     |                     |                                    |
| Radio                                                                                                                                                                      | x Duty Cycle (%)            | Tx Frequency (MHz)                                       | Power Total (mW)                                                                    | Antenna Gain (dBi)                     | S <sub>L</sub> (W/m <sup>2</sup> ) | S <sub>20</sub> (W/m <sup>2</sup> ) | R <sub>C</sub> (cm) | S <sub>C</sub> (W/m <sup>2</sup> ) |
| #1 5G WiFi (FCC)                                                                                                                                                           | 100.0%                      | 5180                                                     | 15.5                                                                                | -4.4                                   | 10.0                               | 0.0112                              | 1.7                 | 1.61                               |
| #1 5G WiFi (ISED)                                                                                                                                                          | 100.0%                      | 5180                                                     | 15.5                                                                                | -4.4                                   | 9.0                                | 0.0112                              | 1.7                 | 1.54                               |

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Revision 2

HVIN: GMN-03000

Test #: 250128

Test to: 47CFR 2.1307, RSS-102 Iss.6

File: GMN-03000 RFExp FCC-IC 250128 r2

Garmin International, Inc // Garmin AT, Inc

FCC ID: IPH-04286 IC ID: 1312A-04286

SN: 78F000511 & 78F000512

Date: July 25, 2025

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# Garmin GMN-03000 RF Exposure Exhibit

Uncontrolled / Public Environment

HVIN: GMN-03000

47CFR 1.1307, RSS-102 Issue 6

## Radio 2 G WiFi MPE Calculation

|                                                                                                                                                                            |                             |                                                                                     |                                        |                               |                                    |                                     |                     |                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|------------------------------------|-------------------------------------|---------------------|------------------------------------|
|                                                                                                                                                                            |                             |                                                                                     |                                        |                               | Antenna Gain (dBi)                 | 8.0                                 |                     |                                    |
|                                                                                                                                                                            |                             |                                                                                     |                                        | dBd + 2.17 = dBi              | dBi to dBd                         | 2.2                                 |                     |                                    |
| Tx Frequency (MHz)                                                                                                                                                         | 2462                        | Peak Power (Watts)                                                                  | 0.0171                                 |                               | Antenna Gain (dBd)                 | 5.83                                |                     |                                    |
|                                                                                                                                                                            |                             | Peak Power (mW)                                                                     | 17.1                                   |                               | Antenna Gain (numeric)             | 6.3                                 |                     |                                    |
| Cable Loss (dB)                                                                                                                                                            | 0.0                         | (dBm)                                                                               | 12.3                                   |                               | Antenna minus cable (dBi)          | 8.0                                 |                     |                                    |
|                                                                                                                                                                            |                             | Max Duty Cycle (%)                                                                  | 100.0%                                 |                               |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Adjusted Power (mW)                                                                 | 17.1                                   |                               |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Adjusted Power (dBm)                                                                | 12.3                                   |                               |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             |                                                                                     |                                        |                               |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Calculated ERP (mw)                                                                 | 65.464                                 |                               | ERP = Po(dBm) + Gain (dB)          |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Calculated EIRP (mw)                                                                | 107.895                                |                               | Radiated (EIRP) dBm                | 20.330                              |                     |                                    |
|                                                                                                                                                                            |                             |                                                                                     |                                        |                               | ERP = EIRP - 2.17 dB               |                                     |                     |                                    |
|                                                                                                                                                                            |                             |                                                                                     |                                        |                               | Radiated (ERP) dBm                 | 18.160                              |                     |                                    |
| <div>Power density (S)</div> <div>EIRP</div> <div>----- = mW/cm<sup>2</sup></div> <div>4 π r<sup>2</sup></div> <div>r (cm) EIRP (mW)</div>                                 |                             | FCC radio frequency radiation exposure limits per 1.1310                            |                                        |                               |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | Frequency (MHz)                                                                     | Occupational Limit W/m <sup>2</sup>    | Public Limit W/m <sup>2</sup> |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | 300-1,500                                                                           | f/30                                   | f/150                         |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | 1,500-100,000                                                                       | 50                                     | 10                            |                                    |                                     |                     |                                    |
|                                                                                                                                                                            |                             | 2462.0                                                                              | 50                                     | 10                            |                                    |                                     |                     |                                    |
| IC radio frequency radiation exposure limits per RSS-102, Issue 6 Field Reference Level FRL Limit (W/m <sup>2</sup> )                                                      |                             |                                                                                     |                                        |                               |                                    |                                     |                     |                                    |
| Frequency (MHz)                                                                                                                                                            | Uncontrolled                |                                                                                     | Frequency (MHz)                        | Controlled                    |                                    |                                     |                     |                                    |
| 10-20                                                                                                                                                                      | 2.0                         | 2.0                                                                                 | 10-20                                  | 10.0                          | 10.0                               |                                     |                     |                                    |
| 20-48                                                                                                                                                                      | 8.944/f <sup>0.5</sup>      | 0.2                                                                                 | 20-48                                  | 44.72/f <sup>0.5</sup>        | 0.9                                |                                     |                     |                                    |
| 48-300                                                                                                                                                                     | 1.291                       | 1.291                                                                               | 48-100                                 | 6.455                         | 6.455                              |                                     |                     |                                    |
| 300-6,000                                                                                                                                                                  | 0.02619*f <sup>0.6834</sup> | 5.4                                                                                 | 100-6,000                              | 0.6455*f <sup>0.5</sup>       | 32.0                               |                                     |                     |                                    |
| 6,000-15,000                                                                                                                                                               | 5.0                         | 10.0                                                                                | 6,000-15,000                           | 50.0                          | 50.0                               |                                     |                     |                                    |
| 15,000-150,000                                                                                                                                                             | 10                          | 10.0                                                                                | 15,000-150,000                         | 50.0                          | 50.0                               |                                     |                     |                                    |
| 150,000-300,000                                                                                                                                                            | 6.67*(10 <sup>-5</sup> )*f  | 0.2                                                                                 | 150,000-300,000                        | 3.33*(10 <sup>-4</sup> )*f    | 0.8                                |                                     |                     |                                    |
|                                                                                                                                                                            |                             |                                                                                     |                                        |                               |                                    |                                     |                     |                                    |
| f = Transmit Frequency (MHz)                                                                                                                                               |                             |                                                                                     | f (MHz) =                              | 2462.0                        | 2462.0 MHz                         |                                     |                     |                                    |
| P <sub>T</sub> = Power Input to Antenna (mW)                                                                                                                               |                             |                                                                                     | P <sub>T</sub> (mW) =                  | 17.1                          | 17.1 mW                            |                                     |                     |                                    |
| Duty cycle (percentage of operation)                                                                                                                                       |                             |                                                                                     | % =                                    | 100.0%                        | 100.0% %                           |                                     |                     |                                    |
| P <sub>A</sub> = Adjusted Power due to Duty cycle or Cable Loss (mW)                                                                                                       |                             |                                                                                     | P <sub>A</sub> (mW) =                  | 17.10                         | 17.10 mW                           |                                     |                     |                                    |
| G <sub>N</sub> = Numeric Gain of the Antenna                                                                                                                               |                             |                                                                                     | G <sub>N</sub> (numeric) =             | 6.31                          | 6.31 numeric                       |                                     |                     |                                    |
| S <sub>20</sub> = Power Density of device at 20cm (mW/m <sup>2</sup> )                                                                                                     |                             | S <sub>20</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>20</sub> ) <sup>2</sup> | S <sub>20</sub> (mW/m <sup>2</sup> ) = | 0.02                          | 0.02 mW/m <sup>2</sup>             |                                     |                     |                                    |
| S <sub>20</sub> = Power Density of device at 20cm (W/m <sup>2</sup> )                                                                                                      |                             | S <sub>20</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>20</sub> ) <sup>2</sup> | S <sub>20</sub> (W/m <sup>2</sup> ) =  | 0.21                          | 0.21 W/m <sup>2</sup>              |                                     |                     |                                    |
| S <sub>L</sub> = Power Density Limit (W/m <sup>2</sup> )                                                                                                                   |                             |                                                                                     | S <sub>L</sub> (W/m <sup>2</sup> )=    | 10.00                         | 5.44 W/m <sup>2</sup>              |                                     |                     |                                    |
| R <sub>C</sub> = Minimum distance to the Radiating Element for Compliance ( R <sub>C</sub> =√(P <sub>A</sub> G <sub>N</sub> /4πS <sub>L</sub> ))                           |                             |                                                                                     | R <sub>C</sub> (cm) =                  | 3.9                           | 5.0 cm                             |                                     |                     |                                    |
| S <sub>C</sub> = Power Density of the device at the Compliance Distance R <sub>C</sub> ( S <sub>C</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>C</sub> ) <sup>2</sup> |                             |                                                                                     | S <sub>C</sub> (W/m <sup>2</sup> ) =   | 5.56                          | 3.47 W/m <sup>2</sup>              |                                     |                     |                                    |
| R <sub>20</sub> = 20cm                                                                                                                                                     |                             |                                                                                     | R <sub>20</sub> =                      | 20                            | 20 cm                              |                                     |                     |                                    |
|                                                                                                                                                                            |                             |                                                                                     |                                        |                               |                                    |                                     |                     |                                    |
| Summary: Standalone MPE Calculations and Summary                                                                                                                           |                             |                                                                                     |                                        |                               |                                    |                                     |                     |                                    |
| Radio                                                                                                                                                                      | x Duty Cycle (%)            | Tx Frequency (MHz)                                                                  | Power Total (mW)                       | Antenna Gain (dBi)            | S <sub>L</sub> (W/m <sup>2</sup> ) | S <sub>20</sub> (W/m <sup>2</sup> ) | R <sub>C</sub> (cm) | S <sub>C</sub> (W/m <sup>2</sup> ) |
| #2 2G WiFi (FCC)                                                                                                                                                           | 100.0%                      | 2462                                                                                | 17.1                                   | 8.0                           | 10.0                               | 0.21                                | 3.9                 | 5.56                               |
| #2 2G WiFi (ISED)                                                                                                                                                          | 100.0%                      | 2462                                                                                | 17.10                                  | 8.0                           | 5.44                               | 0.21                                | 5.0                 | 3.47                               |

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Revision 2

HVIN: GMN-03000

Test #: 250128

Test to: 47CFR 2.1307, RSS-102 Iss.6

File: GMN-03000 RFExp FCC-IC 250128 r2

Garmin International, Inc // Garmin AT, Inc

FCC ID: IPH-04286 IC ID: 1312A-04286

SN: 78F000511 & 78F000512

Date: July 25, 2025

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# Garmin GMN-03000 RF Exposure Exhibit

Uncontrolled / Public Environment

HVIN: GMN-03000

47CFR 1.1307, RSS-102 Issue 6

## Radio 2 5G WiFi MPE Calculation

|                                                                                                                                                                   |                   |                                                                          |                          |                            |                            |                         |                     |                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------|--------------------------|----------------------------|----------------------------|-------------------------|---------------------|------------------------|
|                                                                                                                                                                   |                   |                                                                          |                          |                            | Antenna Gain (dBi)         | -4.4                    |                     |                        |
|                                                                                                                                                                   |                   |                                                                          |                          | dBd + 2.17 = dBi           | dBi to dBd                 | 2.2                     |                     |                        |
| Tx Frequency (MHz)                                                                                                                                                | 5240              | Peak Power (Watts)                                                       | 0.0183                   |                            | Antenna Gain (dBd)         | -6.57                   |                     |                        |
|                                                                                                                                                                   |                   | Peak Power (mW)                                                          | 18.3                     |                            | Antenna Gain (numeric)     | 0.4                     |                     |                        |
| Cable Loss (dB)                                                                                                                                                   | 0.0               | (dBm)                                                                    | 12.6                     |                            | Antenna minus cable (dBi)  | -4.4                    |                     |                        |
|                                                                                                                                                                   |                   | Max Duty Cycle (%)                                                       | 100.0%                   |                            |                            |                         |                     |                        |
|                                                                                                                                                                   |                   | Adjusted Power (mW)                                                      | 18.3                     |                            |                            |                         |                     |                        |
|                                                                                                                                                                   |                   | Adjusted Power (dBm)                                                     | 12.6                     |                            |                            |                         |                     |                        |
|                                                                                                                                                                   |                   |                                                                          |                          |                            |                            |                         |                     |                        |
|                                                                                                                                                                   |                   | Calculated ERP (mw)                                                      | 4.027                    |                            | EIRP = Po(dBm) + Gain (dB) |                         |                     |                        |
|                                                                                                                                                                   |                   | Calculated EIRP (mw)                                                     | 6.637                    |                            |                            | Radiated (EIRP) dBm     | 8.220               |                        |
|                                                                                                                                                                   |                   |                                                                          |                          |                            | ERP = EIRP - 2.17 dB       |                         |                     |                        |
|                                                                                                                                                                   |                   |                                                                          |                          |                            |                            | Radiated (ERP) dBm      | 6.050               |                        |
| <div>Power density (S)</div> <div>EIRP</div> <div>----- = mW/cm^2</div> <div>4 π r^2</div> <div>r (cm) EIRP (mW)</div>                                            |                   | FCC radio frequency radiation exposure limits per 1.1310                 |                          |                            |                            |                         |                     |                        |
|                                                                                                                                                                   |                   | Frequency (MHz)                                                          | Occupational Limit W/m^2 | Public Limit W/m^2         |                            |                         |                     |                        |
|                                                                                                                                                                   |                   | 300-1,500                                                                | f/30                     | f/150                      |                            |                         |                     |                        |
|                                                                                                                                                                   |                   | 1,500-100,000                                                            | 50                       | 10                         |                            |                         |                     |                        |
|                                                                                                                                                                   |                   | 5240.0                                                                   | 50                       | 10                         |                            |                         |                     |                        |
| IC radio frequency radiation exposure limits per RSS-102, Issue 6 Field Reference Level FRL Limit (W/m^2)                                                         |                   |                                                                          |                          |                            |                            |                         |                     |                        |
| Frequency (MHz)                                                                                                                                                   | Uncontrolled      |                                                                          | Frequency (MHz)          | Controlled                 |                            |                         |                     |                        |
| 10-20                                                                                                                                                             | 2.0               | 2.0                                                                      | 10-20                    | 10.0                       | 10.0                       |                         |                     |                        |
| 20-48                                                                                                                                                             | 8.944/f^0.5       | 0.1                                                                      | 20-48                    | 44.72/f^0.5                | 0.6                        |                         |                     |                        |
| 48-300                                                                                                                                                            | 1.291             | 1.291                                                                    | 48-100                   | 6.455                      | 6.455                      |                         |                     |                        |
| 300-6,000                                                                                                                                                         | 0.02619*f^0.6834  | 9.1                                                                      | 100-6,000                | 0.6455*f^0.5               | 46.7                       |                         |                     |                        |
| 6,000-15,000                                                                                                                                                      | 5.0               | 10.0                                                                     | 6,000-15,000             | 50.0                       | 50.0                       |                         |                     |                        |
| 15,000-150,000                                                                                                                                                    | 10                | 10.0                                                                     | 15,000-150,000           | 50.0                       | 50.0                       |                         |                     |                        |
| 150,000-300,000                                                                                                                                                   | 6.67*(10^-5)*f    | 0.3                                                                      | 150,000-300,000          | 3.33*(10^-4)*f             | 1.7                        |                         |                     |                        |
|                                                                                                                                                                   |                   |                                                                          |                          |                            |                            |                         |                     |                        |
|                                                                                                                                                                   |                   |                                                                          |                          |                            | FCC                        | ISED                    |                     |                        |
| f = Transmit Frequency (MHz)                                                                                                                                      |                   |                                                                          |                          | f (MHz) =                  | 5240.0                     | 5240.0                  | MHz                 |                        |
| P <sub>T</sub> = Power Input to Antenna (mW)                                                                                                                      |                   |                                                                          |                          | P <sub>T</sub> (mW) =      | 18.3                       | 18.3                    | mW                  |                        |
| Duty cycle (percentage of operation)                                                                                                                              |                   |                                                                          |                          | % =                        | 100.0%                     | 100.0%                  | %                   |                        |
| P <sub>A</sub> = Adjusted Power due to Duty cycle or Cable Loss (mW)                                                                                              |                   |                                                                          |                          | P <sub>A</sub> (mW) =      | 18.28                      | 18.28                   | mW                  |                        |
| G <sub>N</sub> = Numeric Gain of the Antenna                                                                                                                      |                   |                                                                          |                          | GN (numeric) =             | 0.36                       | 0.36                    | numeric             |                        |
| S <sub>20</sub> = Power Density of device at 20cm (mW/m^2)                                                                                                        |                   | S <sub>20</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>20</sub> )^2 |                          | S <sub>20</sub> (mW/m^2) = | 0.0013                     | 0.0013                  | mW/m^2              |                        |
| S <sub>20</sub> = Power Density of device at 20cm (W/m^2)                                                                                                         |                   | S <sub>20</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>20</sub> )^2 |                          | S <sub>20</sub> (W/m^2) =  | 0.0132                     | 0.0132                  | W/m^2               |                        |
| S <sub>L</sub> = Power Density Limit (W/m^2)                                                                                                                      |                   |                                                                          |                          | S <sub>L</sub> (W/m^2)=    | 10.00                      | 9.12                    | W/m^2               |                        |
| R <sub>C</sub> = Minimum distance to the Radiating Element for Compliance (cn R <sub>C</sub> =√(P <sub>A</sub> G <sub>N</sub> /4πS <sub>L</sub> )                 |                   |                                                                          |                          | R <sub>C</sub> (cm) =      | 1.7                        | 1.8                     | cm                  |                        |
| S <sub>C</sub> = Power Density of the device at the Compliance Distance R <sub>C</sub> (W/ S <sub>C</sub> =(P <sub>A</sub> G <sub>N</sub> )/(4πR <sub>C</sub> )^2 |                   |                                                                          |                          | S <sub>C</sub> (W/m^2) =   | 1.77                       | 1.70                    | W/m^2               |                        |
| R <sub>20</sub> = 20cm                                                                                                                                            |                   |                                                                          |                          | R20=                       | 20                         | 20                      | cm                  |                        |
| Summary: Standalone MPE Calculations and Summary                                                                                                                  |                   |                                                                          |                          |                            |                            |                         |                     |                        |
| Radio                                                                                                                                                             | Tx Duty Cycle (%) | Tx Frequency (MHz)                                                       | Power Total (mW)         | Antenna Gain (dBi)         | S <sub>L</sub> (W/m^2)     | S <sub>20</sub> (W/m^2) | R <sub>C</sub> (cm) | S <sub>C</sub> (W/m^2) |
| #2 5G WiFi (FCC)                                                                                                                                                  | 100.0%            | 5240                                                                     | 18.3                     | -4.4                       | 10.0                       | 0.0132                  | 1.7                 | 1.77                   |
| #2 5G WiFi (ISED)                                                                                                                                                 | 100.0%            | 5240                                                                     | 18.3                     | -4.4                       | 9.1                        | 0.0132                  | 1.8                 | 1.70                   |

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Revision 2

HVIN: GMN-03000

Test #: 250128

Test to: 47CFR 2.1307, RSS-102 Iss.6

File: GMN-03000 RFExp FCC-IC 250128 r2

Garmin International, Inc // Garmin AT, Inc

FCC ID: IPH-04286 IC ID: 1312A-04286

SN: 78F000511 & 78F000512

Date: July 25, 2025

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