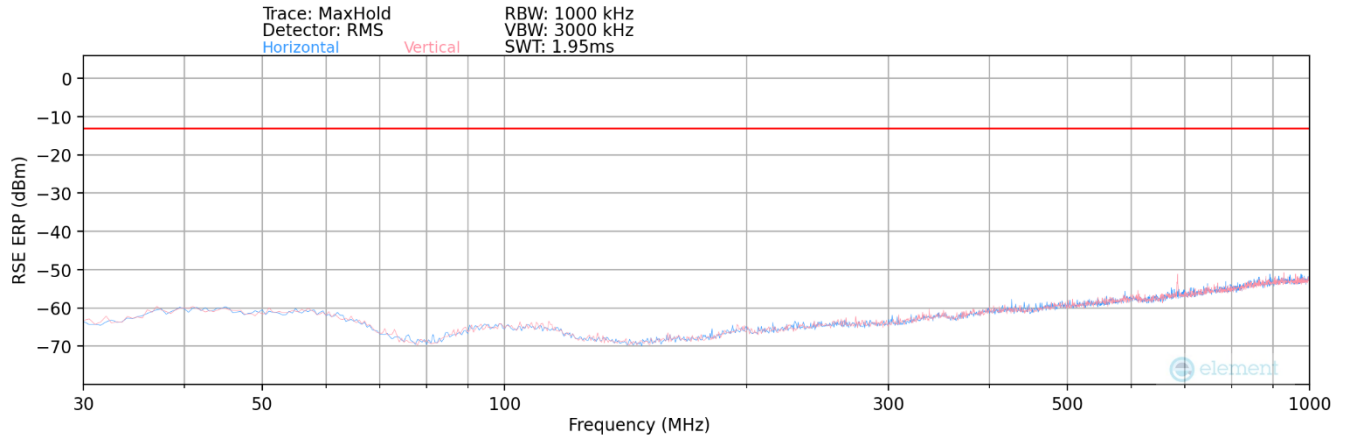
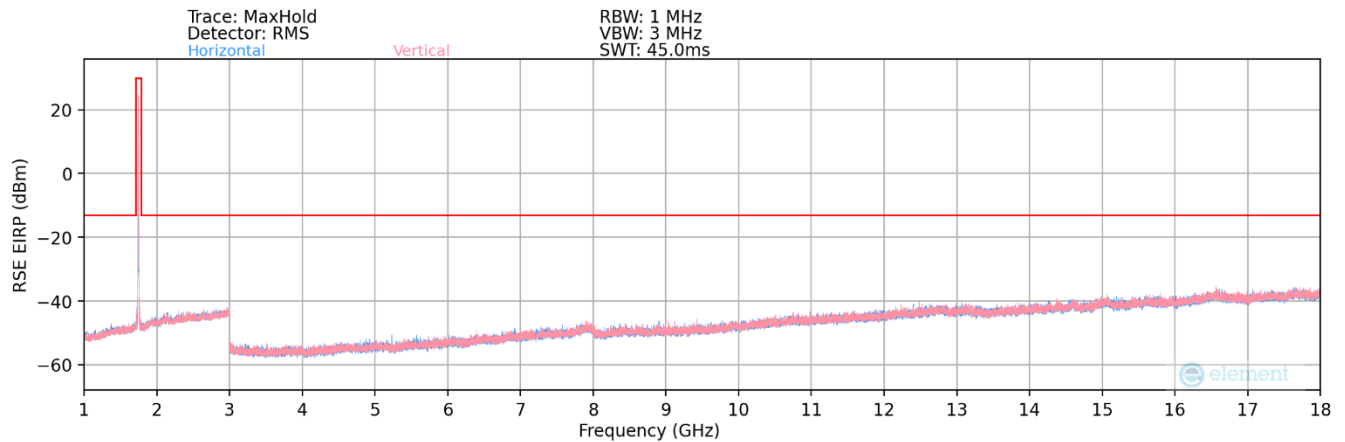


## LTE Band 66/4 – Ant1



**Plot 7-165. Radiated Spurious Plot (LTE Band 66/4) – Ant1**



**Plot 7-166. Radiated Spurious Plot (LTE Band 66/4) – Ant1**

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 20     |
| Frequency (MHz): | 1745   |
| RB / Offset:     | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 675.00          | H               | 276                 | 199                        | -86.65               | -3.39       | 16.96                   | -80.44                            | -13.00      | -67.44      |

**Table 7-34. Radiated Spurious Data (LTE Band 66/4) – Ant1**

|                                         |                                      |                               |  |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508270082-04.A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset |  | Page 140 of 156                   |

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 20     |
| Frequency (MHz): | 1720   |
| RB / Offset:     | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3440.00         | H               | -                   | -                          | -79.83               | 5.30        | 32.47                   | -62.79                             | -13.00      | -49.79      |
| 5160.00         | H               | -                   | -                          | -80.71               | 7.58        | 33.87                   | -61.39                             | -13.00      | -48.39      |
| 6880.00         | H               | -                   | -                          | -80.39               | 11.75       | 38.36                   | -56.89                             | -13.00      | -43.89      |

**Table 7-35. Radiated Spurious Data (LTE Band 66/4 – Low Channel) – Ant1**

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 20     |
| Frequency (MHz): | 1745   |
| RB / Offset:     | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3490.00         | H               | -                   | -                          | -78.29               | 5.13        | 33.84                   | -61.42                             | -13.00      | -48.42      |
| 5235.00         | H               | -                   | -                          | -79.18               | 7.29        | 35.11                   | -60.15                             | -13.00      | -47.15      |
| 6980.00         | H               | -                   | -                          | -79.99               | 11.11       | 38.12                   | -57.14                             | -13.00      | -44.14      |

**Table 7-36. Radiated Spurious Data (LTE Band 66/4 – Mid Channel) – Ant1**

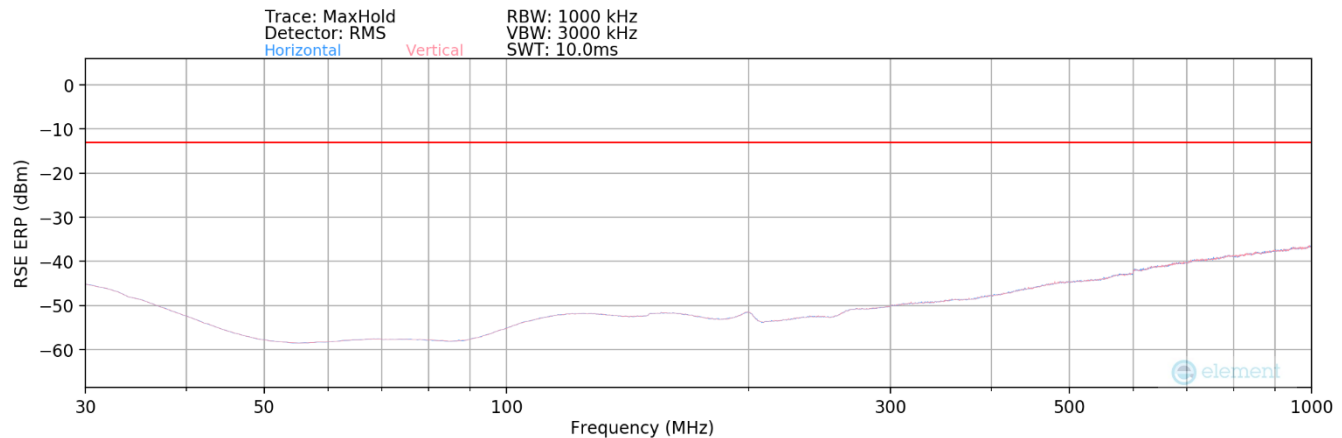
|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 20     |
| Frequency (MHz): | 1770   |
| RB / Offset:     | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3540.00         | H               | -                   | -                          | -78.46               | 5.04        | 33.58                   | -61.68                             | -13.00      | -48.68      |
| 5310.00         | H               | -                   | -                          | -79.33               | 7.58        | 35.25                   | -60.01                             | -13.00      | -47.01      |
| 7080.00         | H               | -                   | -                          | -80.04               | 11.66       | 38.62                   | -56.64                             | -13.00      | -43.64      |

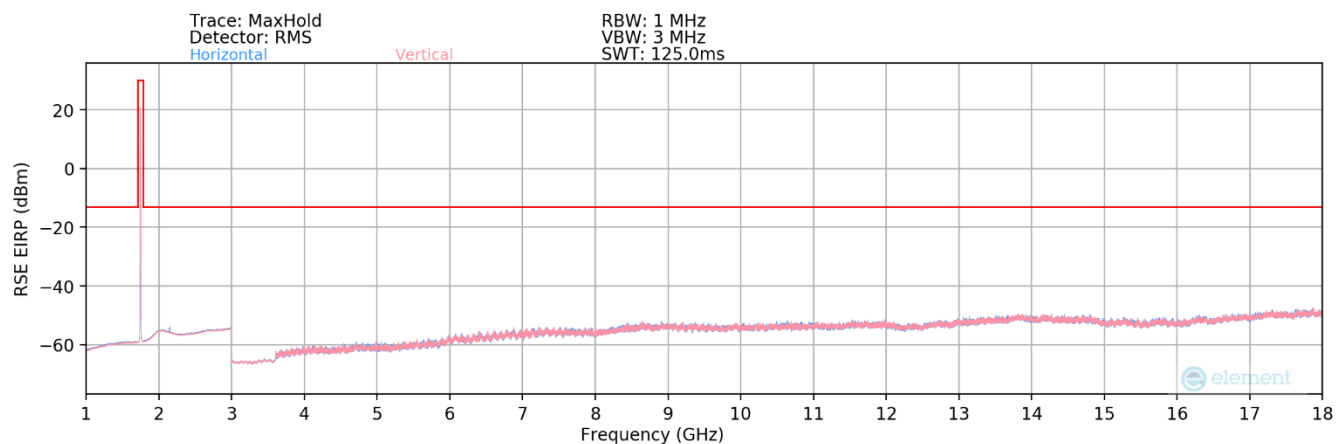
**Table 7-37. Radiated Spurious Data (LTE Band 66/4 – High Channel) – Ant1**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508270082-04.A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset | Page 141 of 156                   |

## NR Band n66 – Ant1



**Plot 7-167. Radiated Spurious Plot (NR Band n66) – Ant1**



**Plot 7-168. Radiated Spurious Plot (NR Band n66) – Ant1**

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 40      |
| Frequency (MHz): | 1745    |
| RB / Offset:     | 1 / 108 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 550.00          | V               | -                   | -                          | -90.96               | 26.41       | 42.45                   | -54.95                            | -13.00      | -41.95      |
| 610.00          | V               | -                   | -                          | -90.75               | 27.03       | 43.28                   | -54.13                            | -13.00      | -41.13      |
| 760.00          | V               | -                   | -                          | -90.74               | 29.45       | 45.71                   | -51.69                            | -13.00      | -38.69      |

**Table 7-38. Radiated Spurious Data (NR Band n66) – Ant1**

|                                         |                                      |                               |  |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508270082-04.A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset |  | Page 142 of 156                   |

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 40      |
| Frequency (MHz): | 1730    |
| RB / Offset:     | 1 / 108 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3460.00         | V               | -                   | -                          | -77.65               | 0.17        | 29.52                   | -65.74                             | -13.00      | -52.74      |
| 5190.00         | V               | 386                 | 344                        | -78.03               | 3.38        | 32.35                   | -62.91                             | -13.00      | -49.91      |
| 6920.00         | V               | -                   | -                          | -80.53               | 8.47        | 34.94                   | -60.32                             | -13.00      | -47.32      |
| 8650.00         | V               | -                   | -                          | -80.33               | 11.57       | 38.24                   | -57.02                             | -13.00      | -44.02      |
| 10380.00        | V               | -                   | -                          | -81.19               | 12.37       | 38.18                   | -57.08                             | -13.00      | -44.08      |

**Table 7-39. Radiated Spurious Data (NR Band n66 – Low Channel) – Ant1**

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 40      |
| Frequency (MHz): | 1745    |
| RB / Offset:     | 1 / 108 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3490.00         | V               | -                   | -                          | -77.90               | 0.06        | 29.16                   | -66.10                             | -13.00      | -53.10      |
| 5235.00         | V               | -                   | -                          | -78.96               | 3.37        | 31.41                   | -63.85                             | -13.00      | -50.85      |
| 6980.00         | V               | -                   | -                          | -78.88               | 7.96        | 36.08                   | -59.18                             | -13.00      | -46.18      |

**Table 7-40. Radiated Spurious Data (NR Band n66 – Mid Channel) – Ant1**

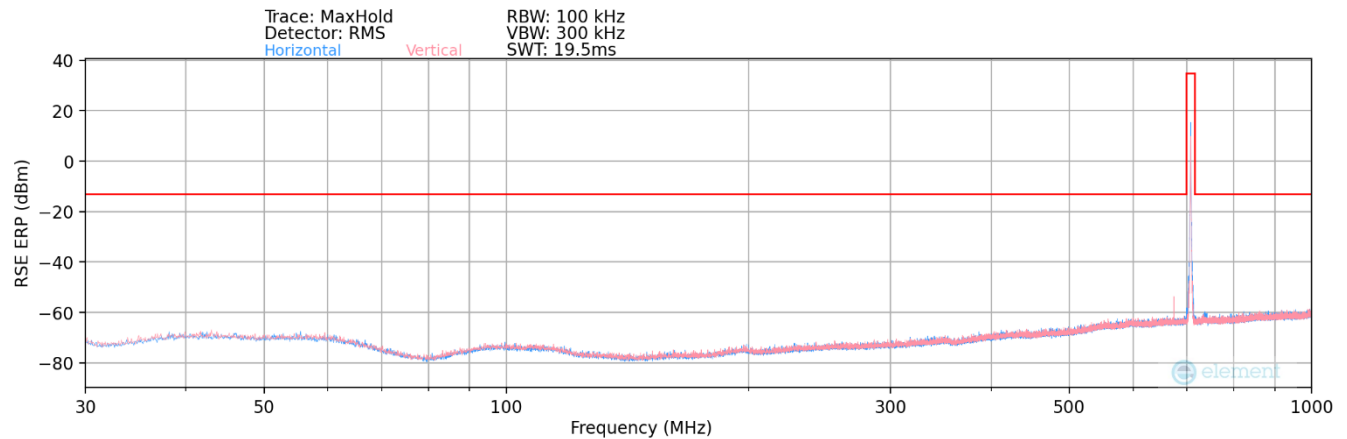
|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 40      |
| Frequency (MHz): | 1760    |
| RB / Offset:     | 1 / 108 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3520.00         | V               | -                   | -                          | -77.36               | -0.06       | 29.58                   | -65.68                             | -13.00      | -52.68      |
| 5280.00         | V               | 316                 | 336                        | -78.09               | 3.28        | 32.19                   | -63.07                             | -13.00      | -50.07      |
| 7040.00         | V               | -                   | -                          | -78.77               | 8.10        | 36.33                   | -58.92                             | -13.00      | -45.92      |
| 8800.00         | V               | -                   | -                          | -80.27               | 11.06       | 37.79                   | -57.47                             | -13.00      | -44.47      |
| 10560.00        | V               | -                   | -                          | -81.23               | 12.67       | 38.44                   | -56.81                             | -13.00      | -43.81      |

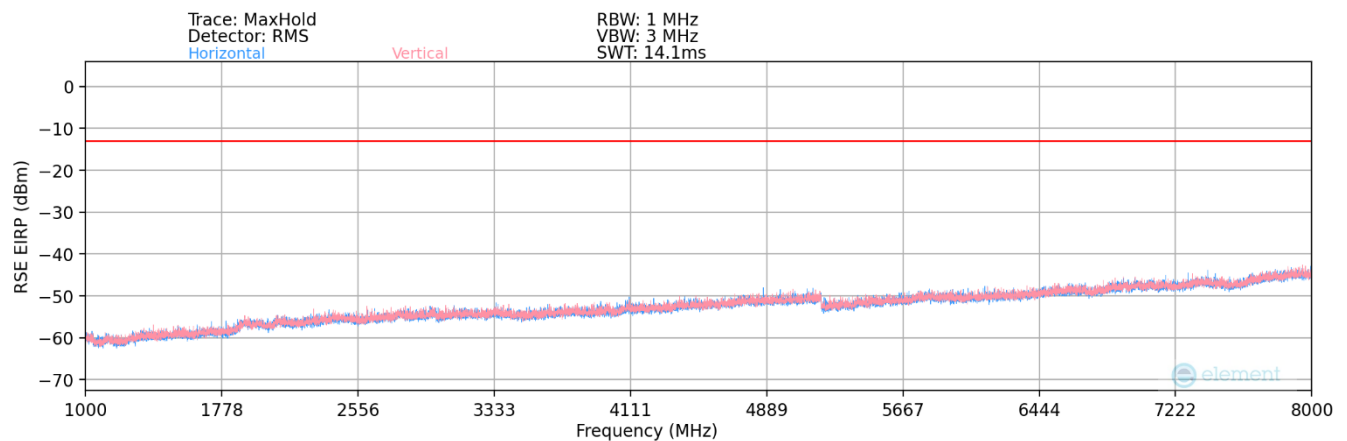
**Table 7-41. Radiated Spurious Data (NR Band n66 – High Channel) – Ant1**

|                                         |                                      |                               |  |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508270082-04.A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset |  | Page 143 of 156                   |

## LTE Band 12 – Ant2



Plot 7-169. Radiated Spurious Plot (LTE Band 12) – Ant2



Plot 7-170. Radiated Spurious Plot (LTE Band 12) – Ant2

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 707.5  |
| RB / Offset:     | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 675.00          | H               | 112                 | 200                        | -86.72               | -3.39       | 16.89                   | -80.51                            | -13.00      | -67.51      |

Table 7-42. Radiated Spurious Data (LTE Band 12 – Mid Channel) – Ant2

|                                         |                                      |                               |  |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508270082-04.A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset |  | Page 144 of 156                   |

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 704    |
| RB / Offset:     | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1408.00         | H               | 224                 | 129                        | -74.90               | -2.56       | 29.54                   | -65.72                             | -13.00      | -52.72      |
| 2112.00         | H               | 165                 | 327                        | -77.47               | 1.75        | 31.28                   | -63.98                             | -13.00      | -50.98      |
| 2816.00         | H               | -                   | -                          | -78.53               | 3.78        | 32.25                   | -63.00                             | -13.00      | -50.00      |
| 3520.00         | H               | -                   | -                          | -78.67               | 4.21        | 32.54                   | -62.72                             | -13.00      | -49.72      |
| 4224.00         | H               | -                   | -                          | -79.39               | 5.51        | 33.12                   | -62.14                             | -13.00      | -49.14      |

**Table 7-43. Radiated Spurious Data (LTE Band 12 – Low Channel) – Ant2**

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 707.5  |
| RB / Offset:     | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1415.00         | H               | 159                 | 157                        | -74.40               | -2.66       | 29.94                   | -65.32                             | -13.00      | -52.32      |
| 2122.50         | H               | -                   | -                          | -77.67               | 1.69        | 31.02                   | -64.24                             | -13.00      | -51.24      |
| 2830.00         | H               | -                   | -                          | -78.10               | 3.52        | 32.42                   | -62.84                             | -13.00      | -49.84      |
| 3537.50         | H               | -                   | -                          | -78.54               | 4.23        | 32.69                   | -62.57                             | -13.00      | -49.57      |

**Table 7-44. Radiated Spurious Data (LTE Band 12 – Mid Channel) – Ant2**

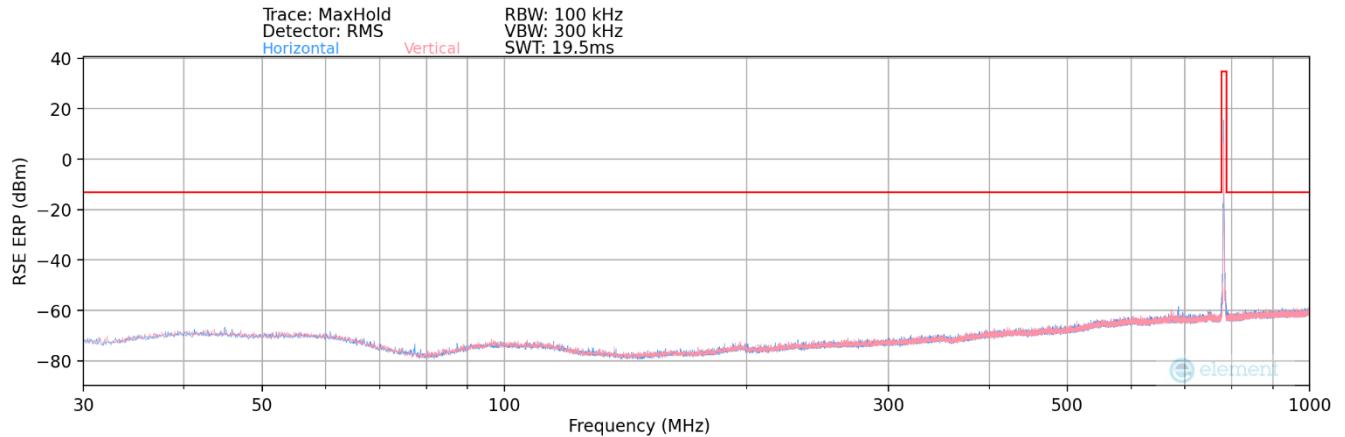
|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 711    |
| RB / Offset:     | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1422.00         | H               | 156                 | 148                        | -74.61               | -2.61       | 29.78                   | -65.47                             | -13.00      | -52.47      |
| 2133.00         | H               | -                   | -                          | -77.73               | 1.64        | 30.91                   | -64.35                             | -13.00      | -51.35      |
| 2844.00         | H               | -                   | -                          | -78.12               | 3.16        | 32.04                   | -63.22                             | -13.00      | -50.22      |
| 3555.00         | H               | -                   | -                          | -78.29               | 4.32        | 33.03                   | -62.23                             | -13.00      | -49.23      |

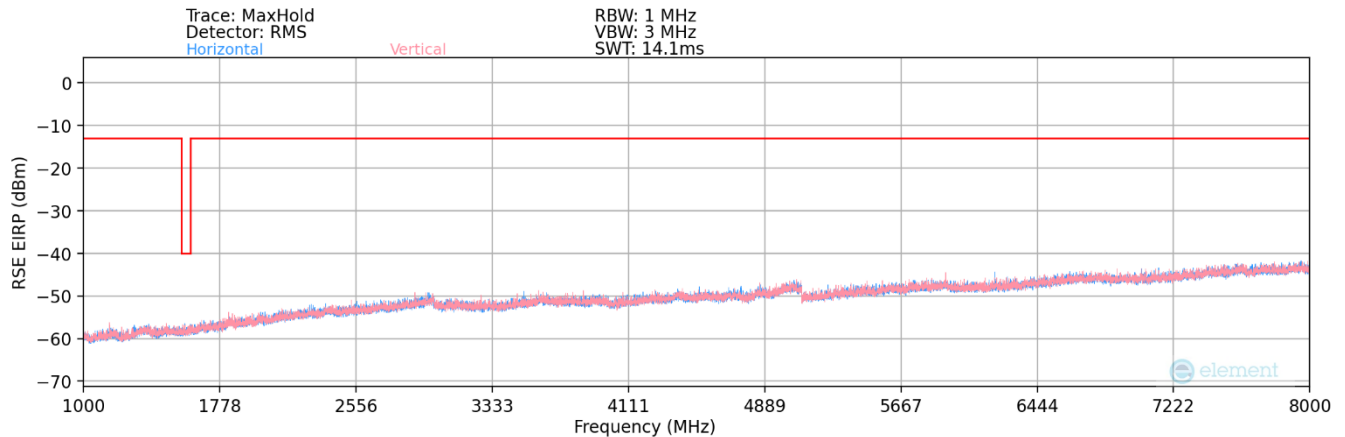
**Table 7-45. Radiated Spurious Data (LTE Band 12 – High Channel) – Ant2**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508270082-04.A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset | Page 145 of 156                   |

## LTE Band 13 – Ant2



Plot 7-171. Radiated Spurious Plot (LTE Band 13) – Ant2



Plot 7-172. Radiated Spurious Plot (LTE Band 13) – Ant2

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 782    |
| RB / Offset:     | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 675.00          | V               | 112                 | 121                        | -86.67               | -3.39       | 16.94                   | -80.46                            | -13.00      | -67.46      |

Table 7-46. Radiated Spurious Data (LTE Band 13 – Mid Channel) – Ant2

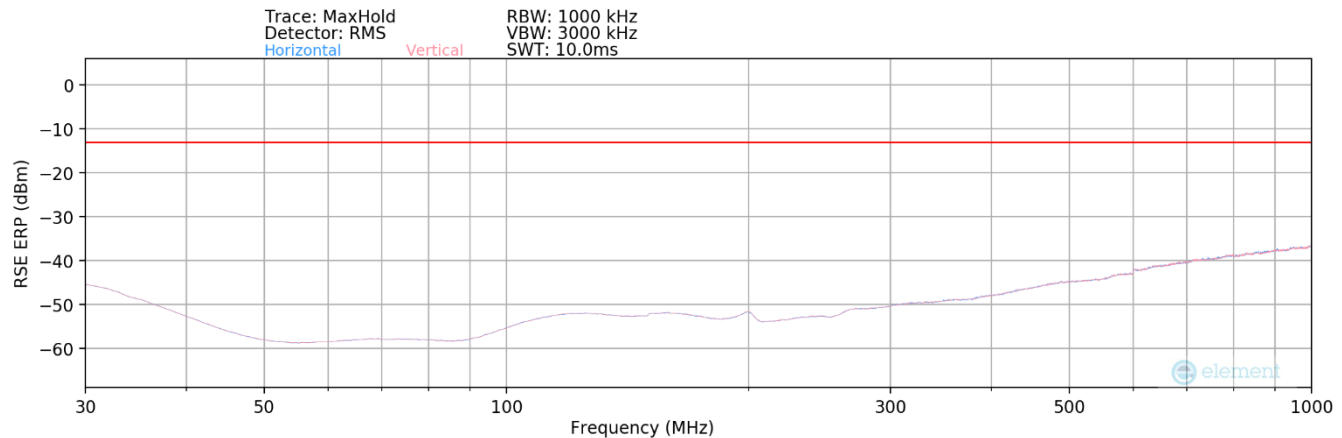
|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 782    |
| RB / Offset:     | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1564.00         | V               | -                   | -                          | -71.60               | -0.86       | 34.54                   | -60.72                             | -40.00      | -20.72      |
| 2346.00         | V               | -                   | -                          | -80.75               | 3.37        | 29.62                   | -65.64                             | -13.00      | -52.64      |
| 3128.00         | V               | -                   | -                          | -81.10               | 6.17        | 32.07                   | -63.19                             | -13.00      | -50.19      |

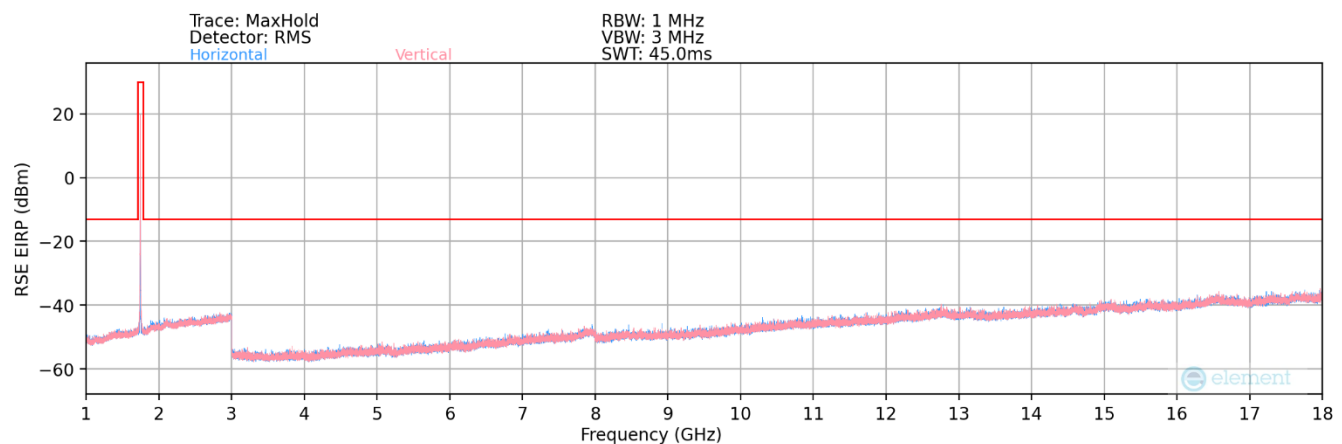
Table 7-47. Radiated Spurious Data (LTE Band 13) – Ant2

|                                         |                                      |                               |  |                                   |  |
|-----------------------------------------|--------------------------------------|-------------------------------|--|-----------------------------------|--|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               |  | Approved by:<br>Technical Manager |  |
| Test Report S/N:<br>1M2508270082-04.A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset |  | Page 146 of 156                   |  |

## NR Band n66 – Ant2



Plot 7-173. Radiated Spurious Plot (NR Band n66) – Ant2



Plot 7-174. Radiated Spurious Plot (NR Band n66) – Ant2

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 40      |
| Frequency (MHz): | 1745    |
| RB / Offset:     | 1 / 108 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 360.00          | H               | -                   | -                          | -91.35               | 22.08       | 37.73                   | -59.67                            | -13.00      | -46.67      |
| 560.00          | H               | -                   | -                          | -90.89               | 26.62       | 42.73                   | -54.68                            | -13.00      | -41.68      |
| 740.00          | H               | -                   | -                          | -90.81               | 29.30       | 45.49                   | -51.92                            | -13.00      | -38.92      |

Table 7-48. Radiated Spurious Data (NR Band n66) – Ant2

|                                         |                                      |                               |  |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508270082-04.A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset |  | Page 147 of 156                   |

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 40      |
| Frequency (MHz): | 1730    |
| RB / Offset:     | 1 / 108 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3460.00         | H               | -                   | -                          | -78.84               | 5.16        | 33.32                   | -61.94                             | -13.00      | -48.94      |
| 5190.00         | H               | -                   | -                          | -79.56               | 7.18        | 34.62                   | -60.64                             | -13.00      | -47.64      |
| 6920.00         | H               | -                   | -                          | -80.57               | 11.41       | 37.84                   | -57.42                             | -13.00      | -44.42      |

**Table 7-49. Radiated Spurious Data (NR Band n66 – Low Channel) – Ant2**

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 40      |
| Frequency (MHz): | 1745    |
| RB / Offset:     | 1 / 108 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3490.00         | H               | -                   | -                          | -78.92               | 5.13        | 33.21                   | -62.05                             | -13.00      | -49.05      |
| 5235.00         | H               | -                   | -                          | -79.48               | 7.29        | 34.81                   | -60.45                             | -13.00      | -47.45      |
| 6980.00         | H               | -                   | -                          | -80.26               | 11.11       | 37.85                   | -57.41                             | -13.00      | -44.41      |

**Table 7-50. Radiated Spurious Data (NR Band n66 – Mid Channel) – Ant2**

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 40      |
| Frequency (MHz): | 1760    |
| RB / Offset:     | 1 / 108 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3520.00         | H               | -                   | -                          | -78.84               | 5.09        | 33.25                   | -62.01                             | -13.00      | -49.01      |
| 5280.00         | H               | -                   | -                          | -79.31               | 7.16        | 34.85                   | -60.41                             | -13.00      | -47.41      |
| 7040.00         | H               | -                   | -                          | -79.99               | 11.26       | 38.27                   | -56.99                             | -13.00      | -43.99      |

**Table 7-51. Radiated Spurious Data (NR Band n66 – High Channel) – Ant2**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508270082-04.A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset | Page 148 of 156                   |



## 7.9 Frequency Stability / Temperature Variation

### Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

***For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.***

### Test Procedure Used

ANSI C63.26-2015 – Section 5.6

### Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

### Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

### Test Notes

None

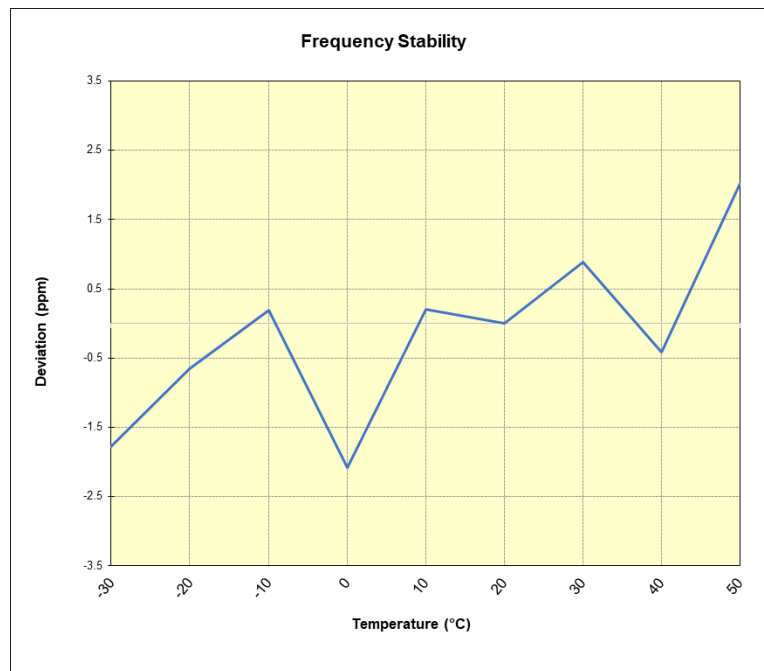
|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508270082-04.A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset | Page 149 of 156                   |

## LTE Band 12/17

|                           |                       |
|---------------------------|-----------------------|
| Operating Frequency (Hz): | 707,500,000           |
| Ref. Voltage (VDC):       | 4.464                 |
| Deviation Limit:          | ± 0.00025% or 2.5 ppm |

| Voltage (%)      | Power (VDC) | Temp (°C)  | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|------------------|-------------|------------|----------------|-----------------|---------------|
| 100 %            | 4.464       | - 30       | 707,502,312    | -1,259          | -0.0001779    |
|                  |             | - 20       | 707,503,104    | -467            | -0.0000660    |
|                  |             | - 10       | 707,503,710    | 139             | 0.0000196     |
|                  |             | 0          | 707,502,103    | -1,468          | -0.0002075    |
|                  |             | + 10       | 707,503,712    | 141             | 0.0000199     |
|                  |             | + 20 (Ref) | 707,503,571    | 0               | 0.0000000     |
|                  |             | + 30       | 707,504,198    | 627             | 0.0000886     |
|                  |             | + 40       | 707,503,278    | -293            | -0.0000414    |
|                  |             | + 50       | 707,505,002    | 1,431           | 0.0002023     |
| Battery Endpoint | 3.682       | + 20       | 707,502,006    | -1,565          | -0.0002212    |

Table 7-52. LTE Band 12 Frequency Stability Data



Plot 7-175. LTE Band 12 Frequency Stability Chart

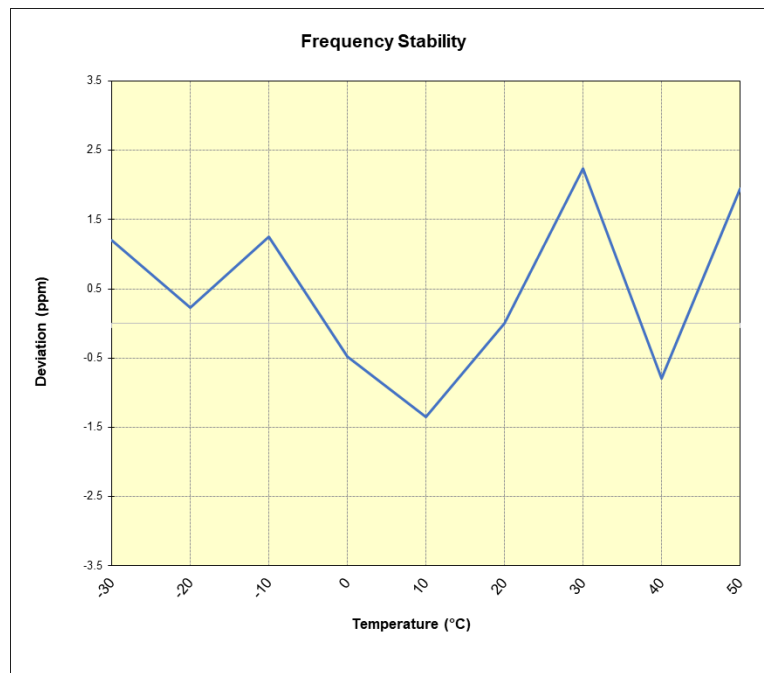
|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508270082-04-A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset | Page 150 of 156                   |

## LTE Band 13

|                           |                       |
|---------------------------|-----------------------|
| Operating Frequency (Hz): | 782,000,000           |
| Ref. Voltage (VDC):       | 4.464                 |
| Deviation Limit:          | ± 0.00025% or 2.5 ppm |

| Voltage (%)      | Power (VDC) | Temp (°C)  | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|------------------|-------------|------------|----------------|-----------------|---------------|
| 100 %            | 4.464       | - 30       | 782,004,006    | 936             | 0.0001197     |
|                  |             | - 20       | 782,003,248    | 178             | 0.0000228     |
|                  |             | - 10       | 782,004,049    | 979             | 0.0001252     |
|                  |             | 0          | 782,002,694    | -376            | -0.0000481    |
|                  |             | + 10       | 782,002,012    | -1,058          | -0.0001353    |
|                  |             | + 20 (Ref) | 782,003,070    | 0               | 0.0000000     |
|                  |             | + 30       | 782,004,819    | 1,749           | 0.0002237     |
|                  |             | + 40       | 782,002,451    | -619            | -0.0000792    |
|                  |             | + 50       | 782,004,597    | 1,527           | 0.0001953     |
| Battery Endpoint | 3.682       | + 20       | 782,001,291    | -1,779          | -0.0002275    |

Table 7-53. LTE Band 13 Frequency Stability Data



Plot 7-176. LTE Band 13 Frequency Stability Chart

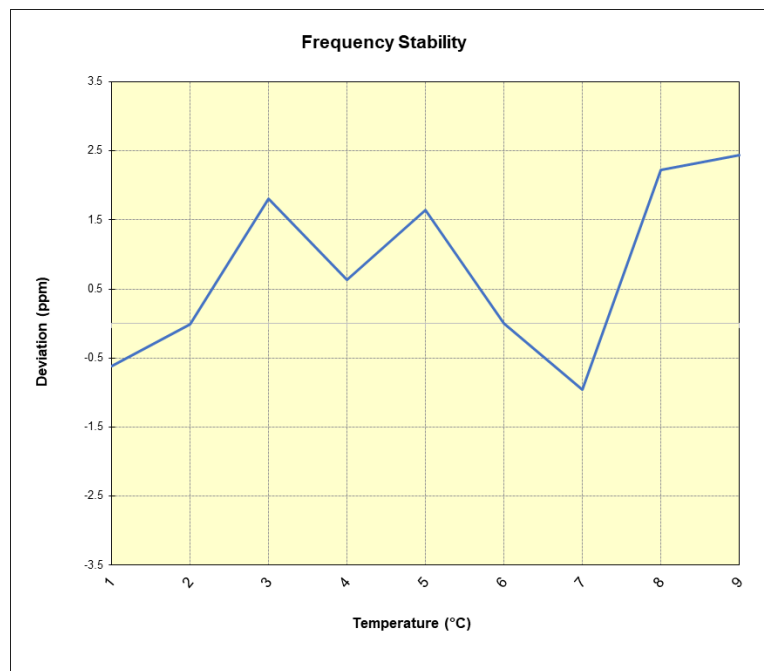
|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508270082-04-A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset | Page 151 of 156                   |

## LTE Band 66/4

|                           |                       |
|---------------------------|-----------------------|
| Operating Frequency (Hz): | 1,745,000,000         |
| Ref. Voltage (VDC):       | 4.464                 |
| Deviation Limit:          | ± 0.00025% or 2.5 ppm |

| Voltage (%)      | Power (VDC) | Temp (°C)  | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|------------------|-------------|------------|----------------|-----------------|---------------|
| 100 %            | 4.464       | - 30       | 1,744,992,918  | -1,084          | -0.0000621    |
|                  |             | - 20       | 1,744,993,976  | -26             | -0.0000015    |
|                  |             | - 10       | 1,744,997,152  | 3,150           | 0.0001805     |
|                  |             | 0          | 1,744,995,102  | 1,100           | 0.0000630     |
|                  |             | + 10       | 1,744,996,873  | 2,871           | 0.0001645     |
|                  |             | + 20 (Ref) | 1,744,994,002  | 0               | 0.0000000     |
|                  |             | + 30       | 1,744,992,342  | -1,660          | -0.0000951    |
|                  |             | + 40       | 1,744,997,881  | 3,879           | 0.0002223     |
|                  |             | + 50       | 1,744,998,254  | 4,252           | 0.0002437     |
| Battery Endpoint | 3.682       | + 20       | 1,744,992,971  | -1,031          | -0.0000591    |

Table 7-54. LTE Band 66/4 Frequency Stability Data



Plot 7-177. LTE Band 66/4 Frequency Stability Chart

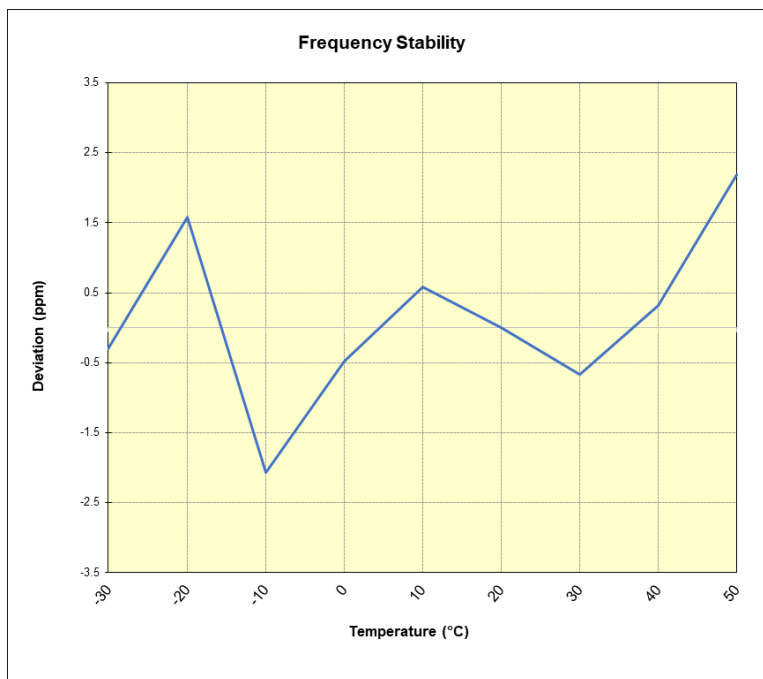
|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508270082-04-A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset | Page 152 of 156                   |

## NR Band n66

|                           |                       |
|---------------------------|-----------------------|
| Operating Frequency (Hz): | 1,745,000,000         |
| Ref. Voltage (VDC):       | 4.464                 |
| Deviation Limit:          | ± 0.00025% or 2.5 ppm |

| Voltage (%)      | Power (VDC) | Temp (°C)  | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|------------------|-------------|------------|----------------|-----------------|---------------|
| 100 %            | 4.464       | - 30       | 1,745,066,873  | -517            | -0.0000296    |
|                  |             | - 20       | 1,745,070,144  | 2,754           | 0.0001578     |
|                  |             | - 10       | 1,745,063,780  | -3,610          | -0.0002069    |
|                  |             | 0          | 1,745,066,554  | -836            | -0.0000479    |
|                  |             | + 10       | 1,745,068,415  | 1,025           | 0.0000587     |
|                  |             | + 20 (Ref) | 1,745,067,390  | 0               | 0.0000000     |
|                  |             | + 30       | 1,745,066,228  | -1,162          | -0.0000666    |
|                  |             | + 40       | 1,745,067,948  | 558             | 0.0000320     |
|                  |             | + 50       | 1,745,071,204  | 3,814           | 0.0002186     |
| Battery Endpoint | 3.682       | + 20       | 1,745,068,268  | 878             | 0.0000503     |

Table 7-55. NR Band n66 Frequency Stability Data



Plot 7-178. NR Band n66 Frequency Stability Chart

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508270082-04.A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset | Page 153 of 156                   |

## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS948JPN** complies with all the requirements of Part 27 of the FCC rules. The data referenced from **FCC ID: A3LSMS948U** (Model SM-S948U) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMS948JPN**.

|                                                |                                             |                                      |                                          |
|------------------------------------------------|---------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMS948JPN                    | <b>PART 27 MEASUREMENT REPORT</b>           |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2508270082-04.A3L | <b>Test Dates:</b><br>9/2/2025 - 10/31/2025 | <b>EUT Type:</b><br>Portable Handset | Page 154 of 156                          |

## 9.0 APPENDIX A – DATA REFERENCING RESULTS

### Overview

The spot-check data presented in this section was measured on the variant model following the guidance of the FCC's Data Referencing guidance in KDB 484596 D01 v03. Each spot-check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device. For the worst-case RSE data, the measurement is determined by an actual emission and not by noise floor.

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.26-2015.

### Notes

1. Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.

### Radiated Spot-Checks – SC-53G

| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|------------|--------------|------------------|-------------|-----------|-------------|-----------------|-------------|
| 10 MHz    | QPSK | 782.00          | H               | 232                 | 229                        | 1.09            | 1 / 0          | 19.65                  | 20.74      | 0.118        | 36.99            | -16.25      | 18.59     | 0.072       | 34.77           | -16.19      |

Table 9-1. ERP Measurements (Spot-check) – LTE Band 13

| Bandwidth | Mod.         | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|--------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|------------|--------------|------------------|-------------|
| 40 MHz    | $\pi/2$ BPSK | 1730.00         | H               | 134                 | 175                        | 2.86            | 1 / 108        | 20.36                  | 23.22      | 0.210        | 30.00            | -6.78       |

Table 9-2. ERP Measurements (Spot-check) – NR Band n66

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 782    |
| RB / Offset:     | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1564.00         | V               | -                   | -                          | -78.69               | -0.86       | 27.45                         | -67.81                             | -40.00      | -27.81      |

Table 9-3. Radiated Spurious Measurements (Spot-check) – LTE Band 13

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 40      |
| Frequency (MHz): | 1730    |
| RB / Offset:     | 1 / 108 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 5190.00         | H               | -                   | -                          | -81.64               | 10.33       | 35.69                         | -59.57                             | -13.00      | -46.57      |

Table 9-4. Radiated Spurious Measurements (Spot-check) – NR Band n66

|                                         |                                      |                               |  |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMS948JPN                    | PART 27 MEASUREMENT REPORT           |                               |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2508270082-04.A3L | Test Dates:<br>9/2/2025 - 10/31/2025 | EUT Type:<br>Portable Handset |  | Page 155 of 156                   |

## Results

| FCC Rules | Test Item | Test Case                                  | Reference Model:<br>SM-S948U | Variant Model: SM-S948D | Deviation<br>(dB) | Max<br>Deviation<br>(dB) | Pass/Fail |
|-----------|-----------|--------------------------------------------|------------------------------|-------------------------|-------------------|--------------------------|-----------|
| 27        | ERP       | Mid Ch. 23230, 10MHz, QPSK, Ant E          | 18.9                         | 18.59                   | -0.31             | 3                        | PASS      |
|           | RSE       | Mid Ch. 23230, 10MHz, QPSK, 2346MHz, Ant E | -65.64                       | -67.81                  | -2.17             | 3                        | PASS      |

**Table 9-5. Summary of Spot-checks – LTE Band 13**

| FCC Rules | Test Item | Test Case                                   | Reference Model:<br>SM-S948U | Variant Model: SM-S948D | Deviation<br>(dB) | Max<br>Deviation<br>(dB) | Pass/Fail |
|-----------|-----------|---------------------------------------------|------------------------------|-------------------------|-------------------|--------------------------|-----------|
| 27        | EIRP      | Low Ch. 346000, 40MHz, BPSK, Ant A          | 24.36                        | 23.22                   | -1.14             | 3                        | PASS      |
|           | RSE       | Low Ch. 346000, 40MHz, BPSK, 5190MHz, Ant A | -59.61                       | -59.57                  | 0.04              | 3                        | PASS      |

**Table 9-6. Summary of Spot-checks – NR Band n66**

**- END OF TEST REPORT -**

|                                                |                                             |                                      |                                          |
|------------------------------------------------|---------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMS948JPN                    | <b>PART 27 MEASUREMENT REPORT</b>           |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2508270082-04.A3L | <b>Test Dates:</b><br>9/2/2025 - 10/31/2025 | <b>EUT Type:</b><br>Portable Handset | Page 156 of 156                          |