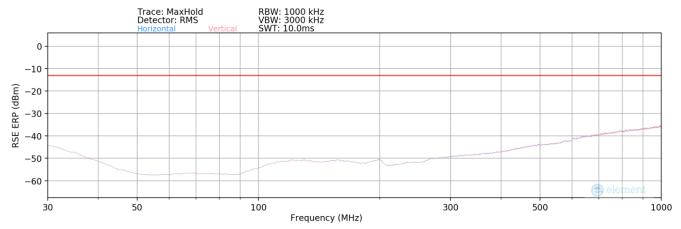
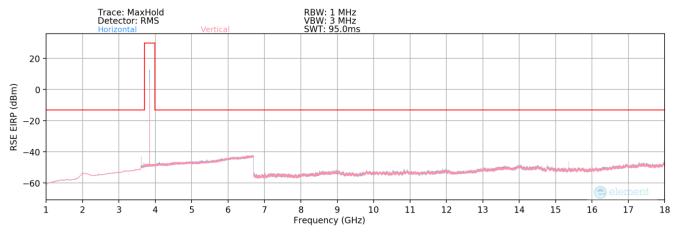


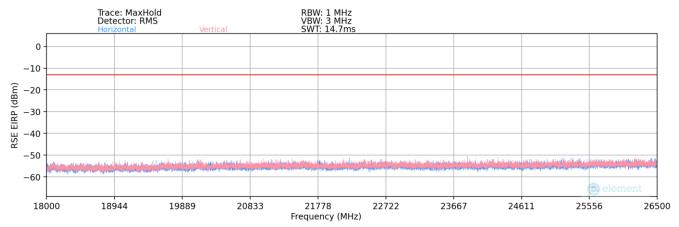
NR Band n77 - Ant D



Plot 7-125. Radiated Spurious Plot (NR Band n77 - Ant D)



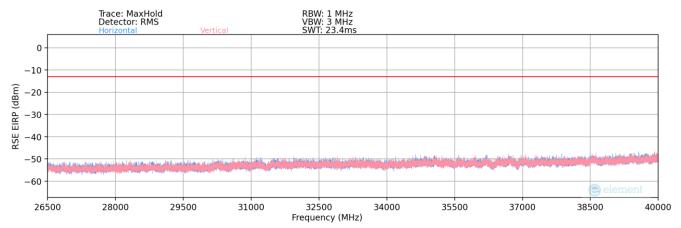
Plot 7-126. Radiated Spurious Plot (NR Band n77 - Ant D)



Plot 7-127. Radiated Spurious Plot (NR Band n77 - Ant D)

| FCC ID: A3LSMS711B | | Approved by: Technical Manager | | |
|---------------------|-----------------|-----------------------------------|-----------------|--|
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Plot 7-128. Radiated Spurious Plot (NR Band n77 - Ant D)

| Bandwidth (MHz): | 100 |
|------------------|-------------|
| Frequency (MHz): | 3840.00 |
| RB / Offset: | 1/136 |
| Mode: | Stand Alone |

| 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] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 615.00 | Н | - | - | -83.76 | 27.13 | 50.37 | -44.89 | -13.00 | -31.89 |

Table 7-33. Radiated Spurious Data (NR Band n77 - Below 1GHz - Ant D)

| Bandwidth (MHz): | 100 |
|------------------|-------------|
| Frequency (MHz): | 3750.00 |
| RB / Offset: | 1/136 |
| Mode: | Stand Alone |

| 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] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 7500.00 | Н | - | - | -78.29 | 9.72 | 38.43 | -56.83 | -13.00 | -43.83 |
| 11250.00 | Н | - | • | -78.67 | 12.07 | 40.40 | -54.86 | -13.00 | -41.86 |
| 15000.00 | Н | 251.00 | 17.00 | -68.69 | 14.86 | 53.17 | -42.08 | -13.00 | -29.08 |
| 18750.00 | Н | - | - | -58.85 | 1.87 | 50.02 | -54.78 | -13.00 | -41.78 |
| 22500.00 | Н | - | - | -60.02 | 3.97 | 50.96 | -53.84 | -13.00 | -40.84 |
| 26250.00 | Н | - | - | -59.17 | 4.35 | 52.17 | -52.63 | -13.00 | -39.63 |

Table 7-34. Radiated Spurious Data (NR Band n77 – Low Channel – Ant D)

| FCC ID: A3LSMS711B | | Approved by: Technical Manager | | |
|---------------------|-----------------|-----------------------------------|-----------------|--|
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| Bandwidth (MHz): | 100 |
|------------------|-------------|
| Frequency (MHz): | 3840.00 |
| RB / Offset: | 1/136 |
| Mode: | Stand Alone |

| 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] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 7680.00 | Н | - | - | -77.41 | 8.49 | 38.08 | -57.18 | -13.00 | -44.18 |
| 11520.00 | Н | - | i | -79.66 | 12.59 | 39.93 | -55.33 | -13.00 | -42.33 |
| 15360.00 | Н | 240.00 | 20.00 | -62.61 | 14.87 | 59.26 | -36.00 | -13.00 | -23.00 |
| 19200.00 | Н | - | i | -59.16 | 2.25 | 50.10 | -54.70 | -13.00 | -41.70 |
| 23040.00 | Н | - | i | -59.74 | 3.99 | 51.25 | -53.55 | -13.00 | -40.55 |
| 26880.00 | Н | - | - | -59.87 | 4.75 | 51.88 | -52.92 | -13.00 | -39.92 |

Table 7-35. Radiated Spurious Data (NR Band n77 – Mid Channel – Ant D)

| Bandwidth (MHz): | 100 |
|------------------|-------------|
| Frequency (MHz): | 3930.00 |
| RB / Offset: | 1/136 |
| Mode: | Stand Alone |

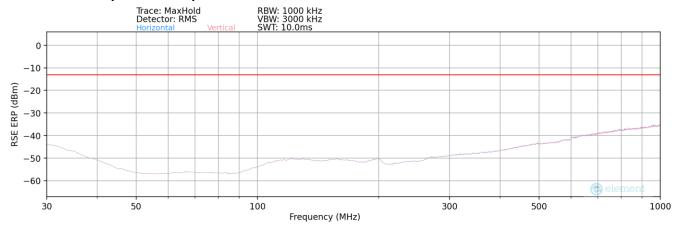
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 7860.00 | Н | - | 1 | -77.71 | 8.96 | 38.25 | -57.01 | -13.00 | -44.01 |
| 11790.00 | Н | - | - | -80.08 | 13.13 | 40.05 | -55.21 | -13.00 | -42.21 |
| 15720.00 | Н | 269.00 | 33.00 | -60.57 | 15.19 | 61.62 | -33.64 | -13.00 | -20.64 |
| 19650.00 | Н | - | - | -59.22 | 2.78 | 50.56 | -54.24 | -13.00 | -41.24 |
| 23580.00 | Н | - | - | -59.20 | 4.00 | 51.81 | -52.99 | -13.00 | -39.99 |
| 27510.00 | Н | - | - | -59.12 | 4.62 | 52.50 | -52.30 | -13.00 | -39.30 |

Table 7-36. Radiated Spurious Data (NR Band n77 – High Channel – Ant D)

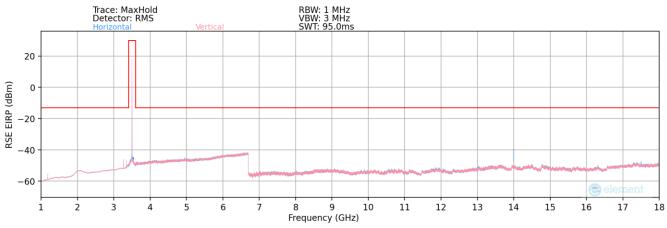
| FCC ID: A3LSMS711B | | PART 27 MEASUREMENT REPORT | | | |
|---------------------|-----------------|----------------------------|-----------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 117 of 129 | | |
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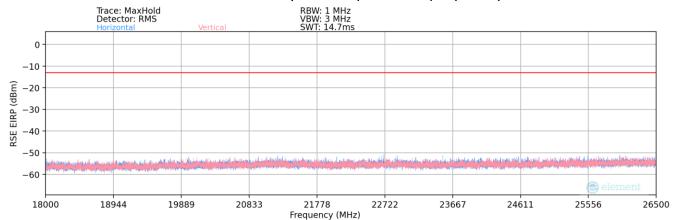
NR Band n77 (DoD Band) - Ant F



Plot 7-129. Radiated Spurious Plot (NR Band n77 (DoD) - Ant F)



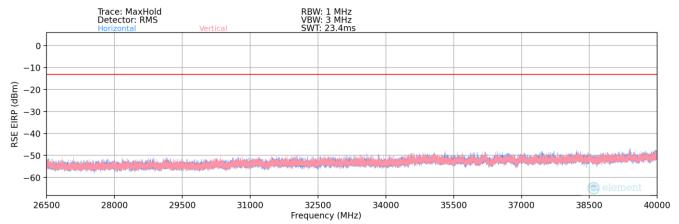
Plot 7-130. Radiated Spurious Plot (NR Band n77 (DoD) - Ant F)



Plot 7-131. Radiated Spurious Plot (NR Band n77 (DoD) - Ant F)

| FCC ID: A3LSMS711B | | Approved by: Technical Manager | | |
|---------------------|-----------------|-----------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 119 of 120 | |
| 1M2304260063-08.A3L | 5/30 - 8/4/2023 | Portable Handset | Page 118 of 129 | |





Plot 7-132. Radiated Spurious Plot (NR Band n77 (DoD) - Ant F)

| Bandwidth (MHz): | 100 |
|------------------|-------------|
| Frequency (MHz): | 3500.01 |
| RB / Offset: | 1 / 136 |
| Mode: | Stand Alone |

| 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] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 618.75 | Н | - | - | -96.93 | 27.24 | 37.31 | -57.94 | -13.00 | -44.94 |

Table 7-37. Radiated Spurious Data (NR Band n77 (DoD) - Below 1GHz - Ant F)

| Bandwidth (MHz): | 100 |
|------------------|-------------|
| Frequency (MHz): | 3500.01 |
| RB / Offset: | 1 / 136 |
| Mode: | Stand Alone |

| 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] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 7000.02 | Н | 122 | 172 | -74.88 | 8.71 | 40.83 | -54.43 | -13.00 | -41.43 |
| 10500.03 | Н | 201 | 263 | -74.70 | 11.97 | 44.27 | -50.99 | -13.00 | -37.99 |
| 14000.04 | Н | 112 | 28 | -64.44 | 15.96 | 58.52 | -36.74 | -13.00 | -23.74 |
| 17500.05 | Н | 140 | 15 | -69.09 | 17.31 | 55.22 | -40.04 | -13.00 | -27.04 |
| 21000.06 | Н | - | i | -66.11 | 3.66 | 44.55 | -60.25 | -13.00 | -47.25 |
| 24500.07 | Н | - | i | -66.23 | 4.10 | 44.87 | -59.93 | -13.00 | -46.93 |
| 28000.08 | Н | - | - | -66.73 | 4.90 | 45.18 | -59.62 | -13.00 | -46.62 |
| 31500.09 | Н | - | - | -67.05 | 7.41 | 47.36 | -57.44 | -13.00 | -44.44 |

Table 7-38. Radiated Spurious Data (NR Band n77 (DoD) - Mid Channel - Ant F)

| FCC ID: A3LSMS711B | | Approved by: Technical Manager | |
|---------------------|-----------------|-----------------------------------|-----------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 119 of 129 |
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| Case: | w/ Wireless Charging Pad |
|------------------|--------------------------|
| Bandwidth (MHz): | 100 |
| Frequency (MHz): | 3500.01 |
| RB / Offset: | 1 / 136 |
| Mode: | Stand Alone |

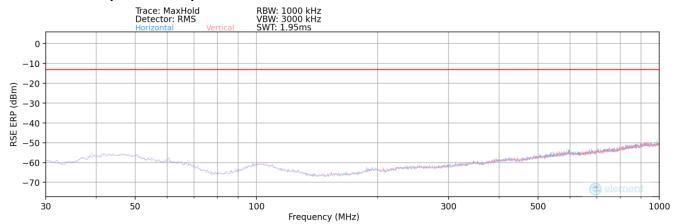
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 7000.02 | Н | 211 | 18 | -74.91 | 8.71 | 40.80 | -54.46 | -13.00 | -41.46 |
| 10500.03 | Н | 109 | 272 | -74.46 | 11.97 | 44.51 | -50.75 | -13.00 | -37.75 |
| 14000.04 | Н | 118 | 50 | -66.85 | 15.96 | 56.11 | -39.15 | -13.00 | -26.15 |
| 17500.05 | Н | 209 | 350 | -72.79 | 17.31 | 51.52 | -43.74 | -13.00 | -30.74 |
| 21000.06 | Н | - | - | -66.54 | 3.66 | 44.12 | -60.68 | -13.00 | -47.68 |
| 24500.07 | Н | - | - | -66.81 | 4.10 | 44.29 | -60.51 | -13.00 | -47.51 |
| 28000.08 | Н | - | - | -66.92 | 4.90 | 44.99 | -59.81 | -13.00 | -46.81 |
| 31500.09 | Н | - | - | -67.66 | 7.41 | 46.74 | -58.06 | -13.00 | -45.06 |

Table 7-39. Radiated Spurious Data with WCP (NR Band n77 (DoD) - Ant F)

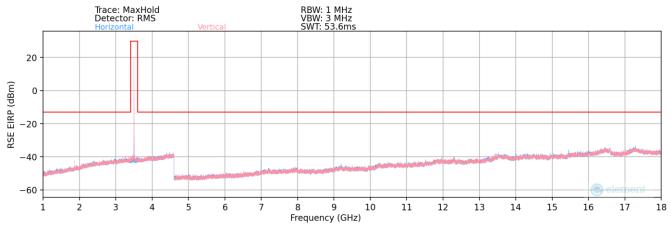
| FCC ID: A3LSMS711B | | PART 27 MEASUREMENT REPORT | | | |
|---------------------|-----------------|----------------------------|-----------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 120 of 129 | | |
| 1M2304260063-08.A3L | 5/30 - 8/4/2023 | Portable Handset | Fage 120 01 129 | | |



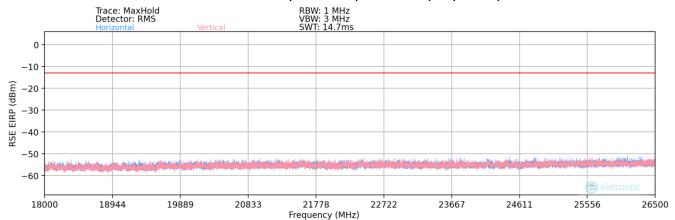
NR Band n77 (DoD Band) - Ant C



Plot 7-133. Radiated Spurious Plot (NR Band n77 (DoD) - Ant C)



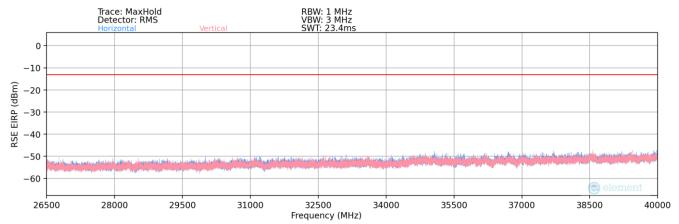
Plot 7-134. Radiated Spurious Plot (NR Band n77 (DoD) - Ant C)



Plot 7-135. Radiated Spurious Plot (NR Band n77 (DoD) - Ant C)

| FCC ID: A3LSMS711B | | Approved by: Technical Manager | |
|---------------------|-----------------|-----------------------------------|-----------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 121 of 129 |
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Plot 7-136. Radiated Spurious Plot (NR Band n77 (DoD) - Ant C)

| Bandwidth (MHz): | 100 |
|------------------|-------------|
| Frequency (MHz): | 3500.01 |
| RB / Offset: | 1/136 |
| Mode: | Stand Alone |

| 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] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 7000.02 | Н | 109.00 | 314.00 | -67.18 | 14.78 | 54.60 | -40.66 | -13.00 | -27.66 |
| 10500.03 | Н | - | - | -75.64 | 20.83 | 52.19 | -43.07 | -13.00 | -30.07 |
| 14000.04 | Н | - | 1 | -74.99 | 26.19 | 58.20 | -37.05 | -13.00 | -24.05 |
| 17500.05 | Н | - | - | -76.19 | 29.80 | 60.61 | -34.65 | -13.00 | -21.65 |

Table 7-40. Radiated Spurious Data (NR Band n77 (DoD) - Mid Channel - Ant C)

| Bandwidth (MHz): | 100 |
|------------------|-------------|
| Frequency (MHz): | 3500.01 |
| RB / Offset: | 1/136 |
| Mode: | Stand Alone |

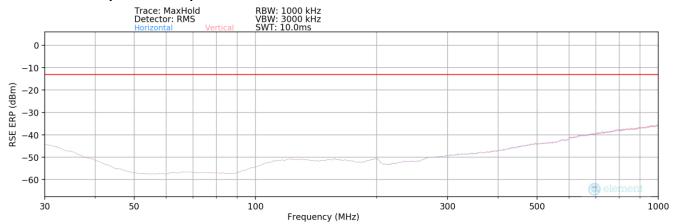
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 599.00 | Н | - | • | -68.15 | -2.06 | 36.79 | -58.46 | -13.00 | -45.46 |

Table 7-41. Radiated Spurious Data below 1GHz (NR Band n77 (DoD) - Ant C)

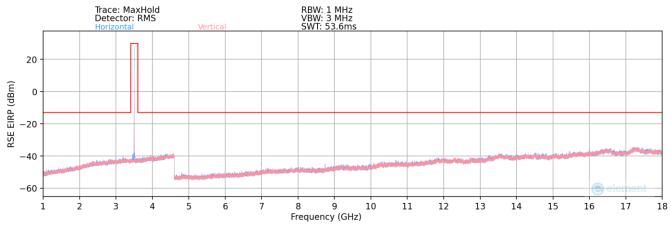
| FCC ID: A3LSMS711B | | Approved by: Technical Manager | | |
|---------------------|-----------------|-----------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 122 of 129 | |
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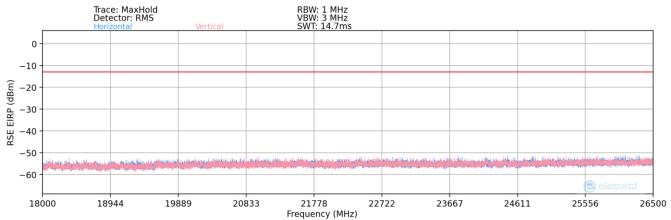
NR Band n77 (DoD Band) - Ant I



Plot 7-137. Radiated Spurious Plot (NR Band n77 (DoD) - Ant I)



Plot 7-138. Radiated Spurious Plot (NR Band n77 (DoD) - Ant I)

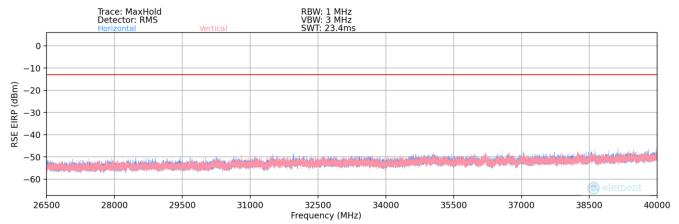


Plot 7-139. Radiated Spurious Plot (NR Band n77 (DoD) - Ant I)

| FCC ID: A3LSMS711B | | Approved by: Technical Manager | | |
|---------------------|-----------------|-----------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 123 of 129 | |
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Plot 7-140. Radiated Spurious Plot (NR Band n77 (DoD) - Ant I)

| Bandwidth (MHz): | 100 |
|------------------|-------------|
| Frequency (MHz): | 3500.01 |
| RB / Offset: | 1/136 |
| Mode: | Stand Alone |

| 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] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 7000.02 | V | - | - | -77.24 | 8.71 | 38.47 | -56.79 | -13.00 | -43.79 |
| 10500.03 | V | - | - | -79.47 | 11.97 | 39.50 | -55.76 | -13.00 | -42.76 |
| 14000.04 | V | - | - | -80.26 | 15.96 | 42.70 | -52.56 | -13.00 | -39.56 |

Table 7-42. Radiated Spurious Data (NR Band n77 (DoD) - Mid Channel - Ant I)

| Bandwidth (MHz): | 100 |
|------------------|-------------|
| Frequency (MHz): | 3500.01 |
| RB / Offset: | 1/136 |
| Mode: | Stand Alone |

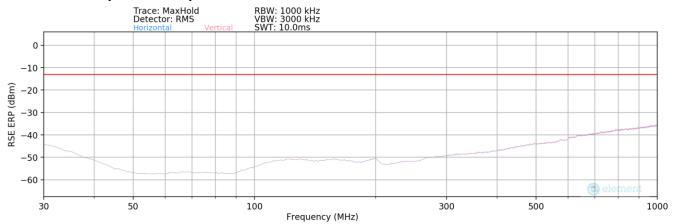
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 425.00 | V | - | - | -86.21 | 24.26 | 45.05 | -50.21 | -13.00 | -37.21 |

Table 7-43. Radiated Spurious Data below 1GHz (NR Band n77 (DoD) - Ant I)

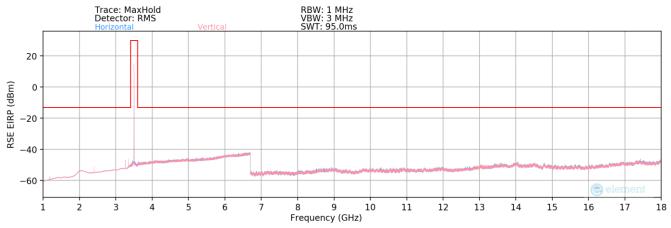
| FCC ID: A3LSMS711B | | Approved by: Technical Manager | | |
|---------------------|-----------------|-----------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 124 of 129 | |
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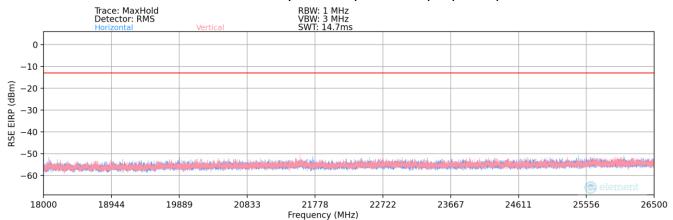
NR Band n77 (DoD Band) - Ant D



Plot 7-141. Radiated Spurious Plot (NR Band n77 (DoD) - Ant D)



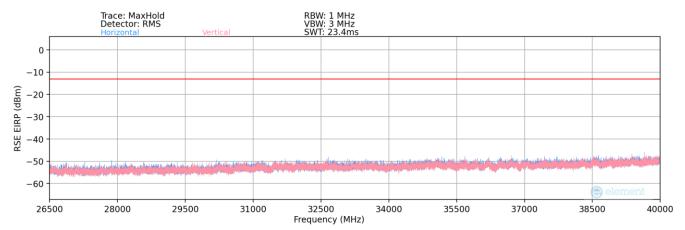
Plot 7-142. Radiated Spurious Plot (NR Band n77 (DoD) - Ant D)



Plot 7-143. Radiated Spurious Plot (NR Band n77 (DoD) - Ant D)

| FCC ID: A3LSMS711B | | Approved by: Technical Manager | | |
|---------------------|-----------------|-----------------------------------|-----------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 125 of 129 | |
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Plot 7-144. Radiated Spurious Plot (NR Band n77 (DoD) - Ant D)

| Bandwidth (MHz): | 100 |
|------------------|-------------|
| Frequency (MHz): | 3500.01 |
| RB / Offset: | 1/136 |
| Mode: | Stand Alone |

| 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] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 7000.02 | Н | - | - | -77.25 | 8.71 | 38.46 | -56.80 | -13.00 | -43.80 |
| 10500.03 | Н | - | - | -79.90 | 11.97 | 39.07 | -56.19 | -13.00 | -43.19 |
| 14000.04 | Н | 316.00 | 16.00 | -68.09 | 15.96 | 54.87 | -40.39 | -13.00 | -27.39 |
| 17500.05 | Н | - | - | -79.32 | 17.31 | 44.99 | -50.27 | -13.00 | -37.27 |
| 21000.06 | Н | - | · | -59.81 | 3.66 | 50.85 | -53.95 | -13.00 | -40.95 |
| 24500.07 | Н | - | - | -59.36 | 4.10 | 51.74 | -53.06 | -13.00 | -40.06 |

Table 7-44. Radiated Spurious Data (NR Band n77 (DoD) - Mid Channel - Ant D)

| Bandwidth (MHz): | 100 |
|------------------|-------------|
| Frequency (MHz): | 3500.01 |
| RB / Offset: | 1/136 |
| Mode: | Stand Alone |

| 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] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 302.00 | Н | - | - | -84.17 | 21.06 | 43.89 | -51.36 | -13.00 | -38.36 |

Table 7-45. Radiated Spurious Data below 1GHz (NR Band n77 (DoD) - Ant D)

| FCC ID: A3LSMS711B | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager | |
|---------------------|----------------------------|------------------|-----------------------------------|--|
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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.
- **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for b.) 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

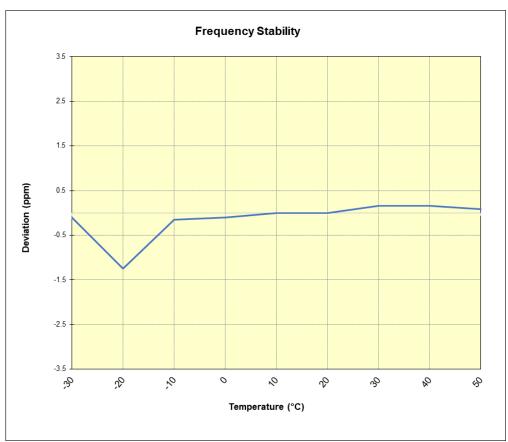
None

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| NR Band n77 | | | | | | | | |
|------------------|-------------|----------------|----------------|--------------------|---|--|--|--|
| | Operating F | requency (Hz): | 3,840,00 | | | | | |
| | Ref. | Voltage (VDC): | 4.4 | | | | | |
| · | | | | | | | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) | | | |
| | | - 30 | 3,840,015,383 | -365 | -0.0000095 | | | |
| | | - 20 | 3,840,010,963 | -4,785 | -0.0001246 | | | |
| | | - 10 | 3,840,015,172 | -576 | -0.0000150 | | | |
| | | 0 | 3,840,015,379 | -369 | -0.0000096 | | | |
| 100 % | 4.43 | + 10 | 3,840,015,760 | 12 | 0.0000003 | | | |
| | | + 20 (Ref) | 3,840,015,748 | 0 | 0.0000000 | | | |
| | | + 30 | 3,840,016,354 | 606 | (%) -0.0000095 -0.0001246 -0.0000150 -0.0000096 0.0000003 | | | |
| | | + 40 | 3,840,016,362 | 614 | 0.0000160 | | | |
| | | + 50 | 3,840,016,072 | 324 | 0.0000084 | | | |
| Battery Endpoint | 3.27 | + 20 | 3.840.022.747 | 6.999 | 0.0001823 | | | |

Table 7-46. NR Band n77 Frequency Stability Data



Plot 7-145. NR Band n77 Frequency Stability Chart

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Samsung Portable Handset FCC ID: A3LSMS711B complies with all the requirements of Part 27 of the FCC rules.

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