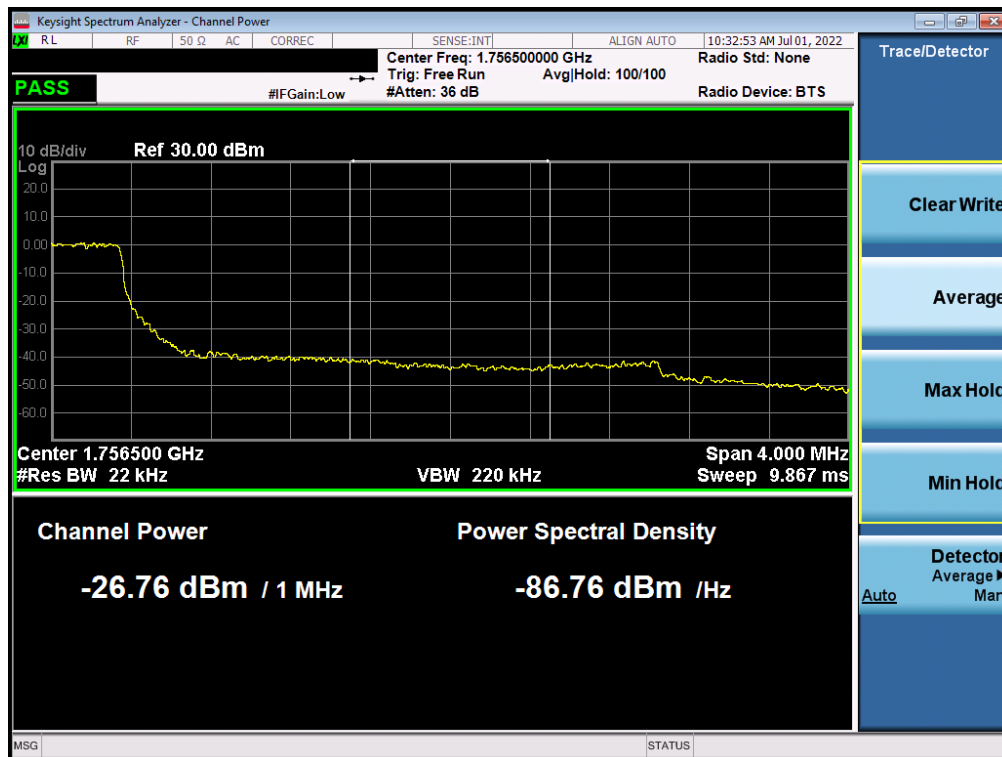


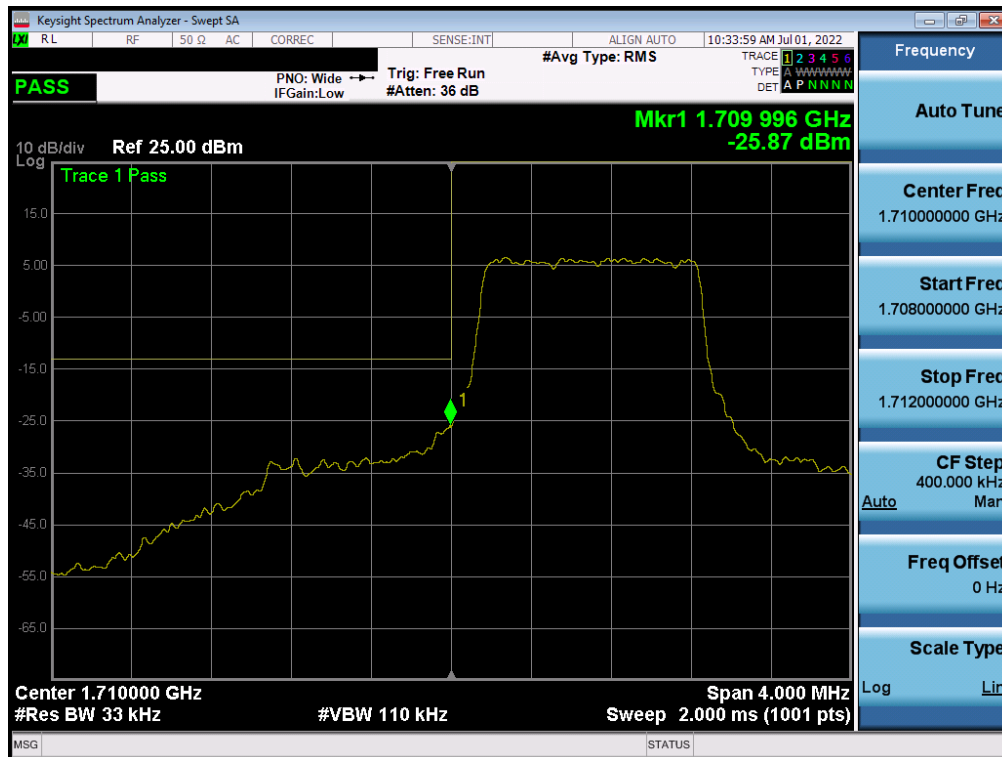


Plot 7-78. Upper Band Edge Plot (LTE Band 4 – 3MHz QPSK – Full RB)

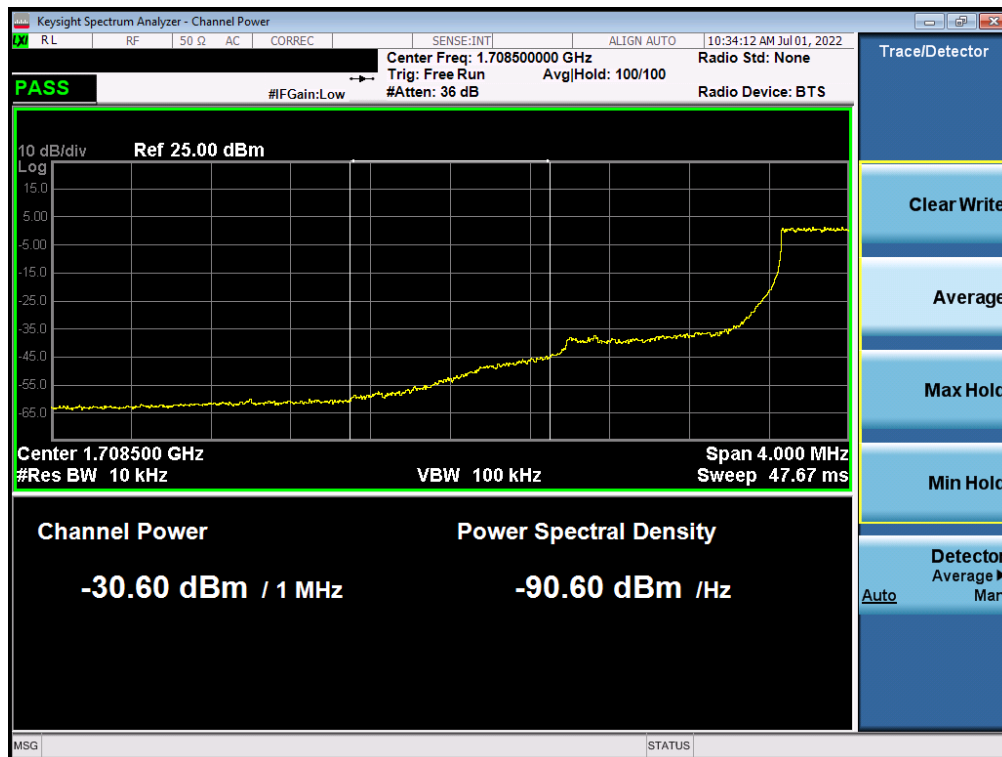


Plot 7-79. Upper Extended Band Edge Plot (LTE Band 4 – 3MHz QPSK – Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 57 of 85 |



Plot 7-80. Lower Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB)



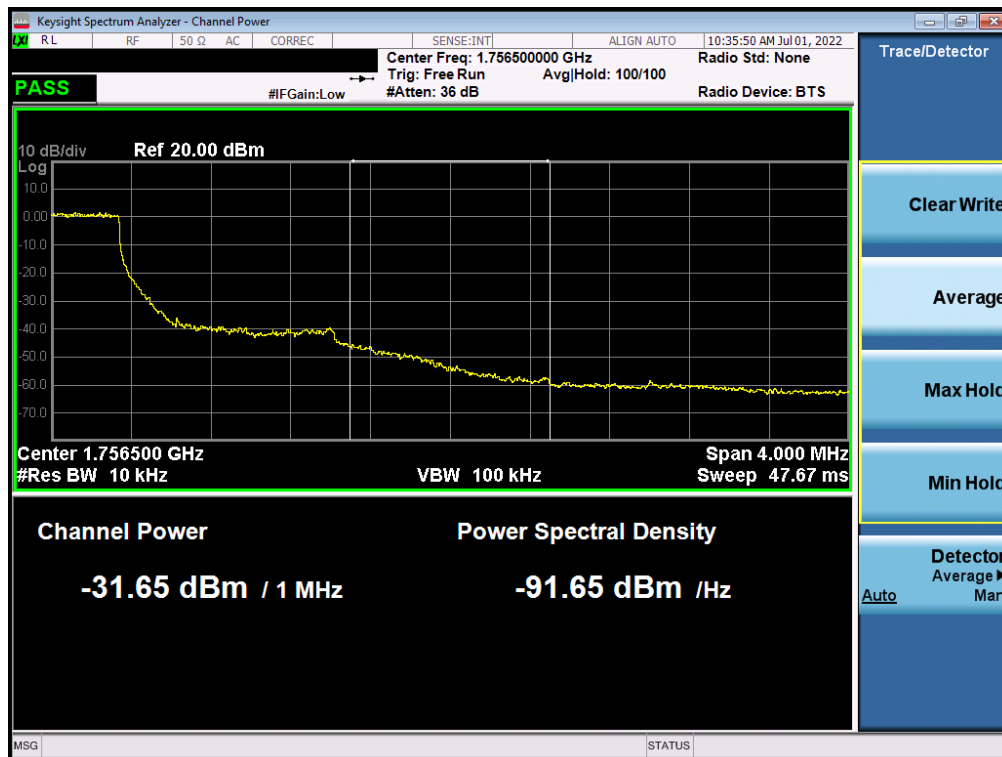
Plot 7-81. Lower Extended Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 58 of 85 |

V2.0 3/15/2021



Plot 7-82. Upper Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB)



Plot 7-83. Upper Extended Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 59 of 85 |

V2.0 3/15/2021

7.5 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

ANSI C63.26-2015 – Section 5.2.3.4

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW \geq OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

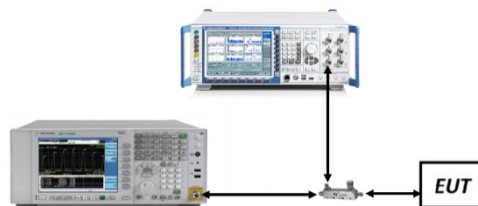


Figure 7-4. Test Instrument & Measurement Setup

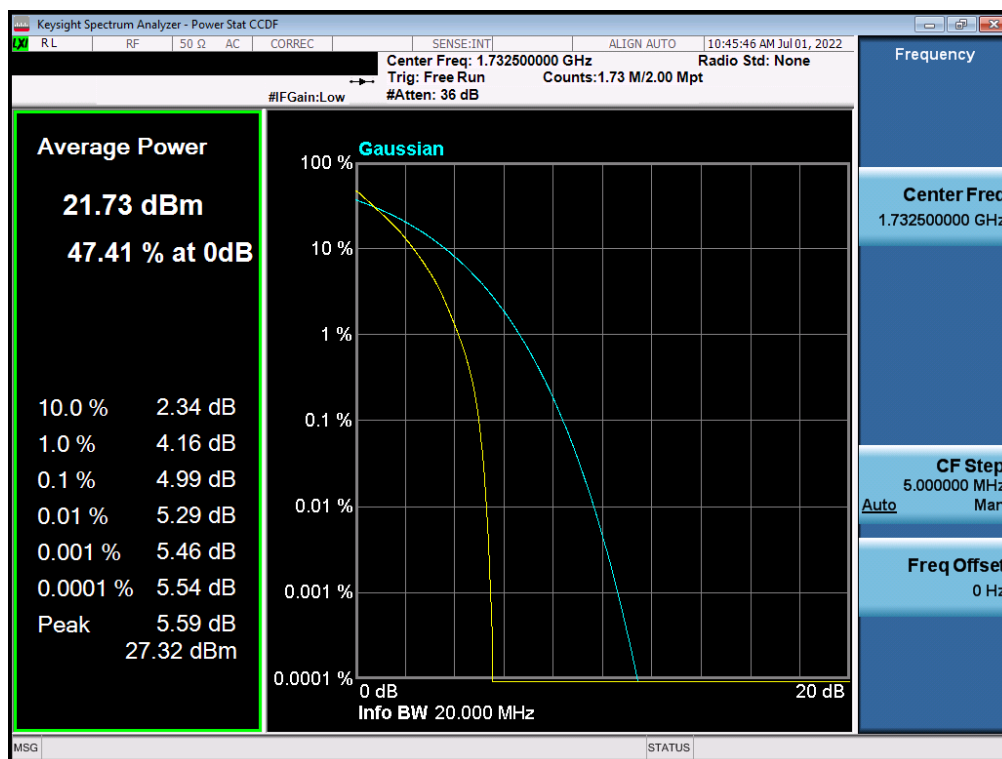
Test Notes

None.

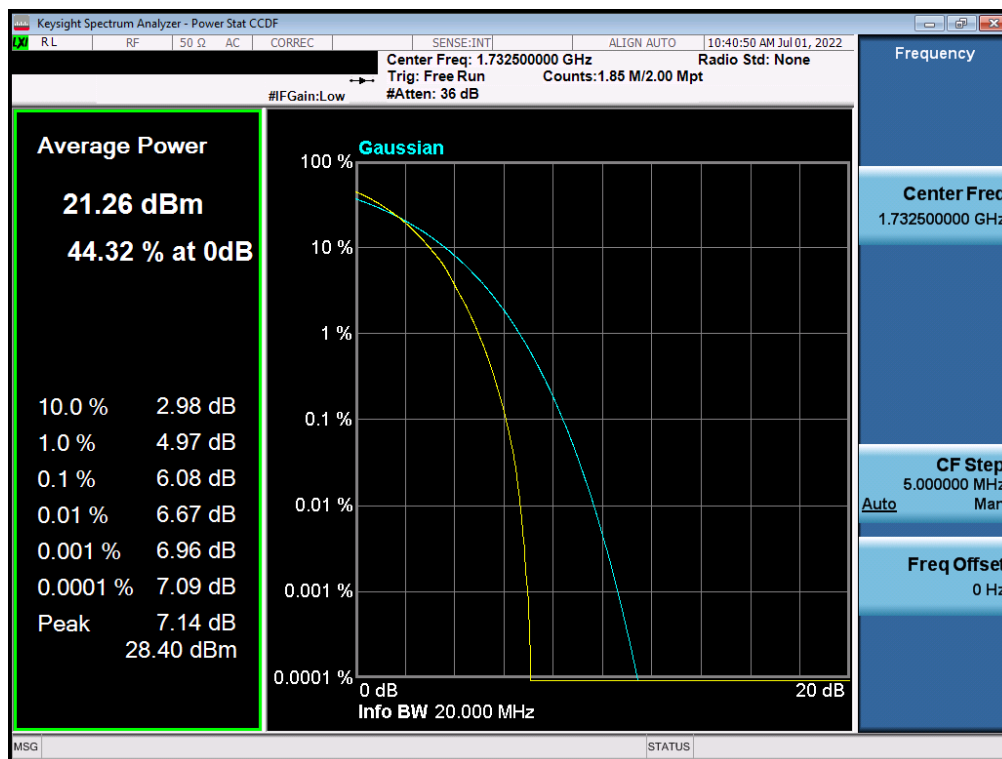
| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 60 of 85 |

V2.0 3/15/2021

LTE Band 4



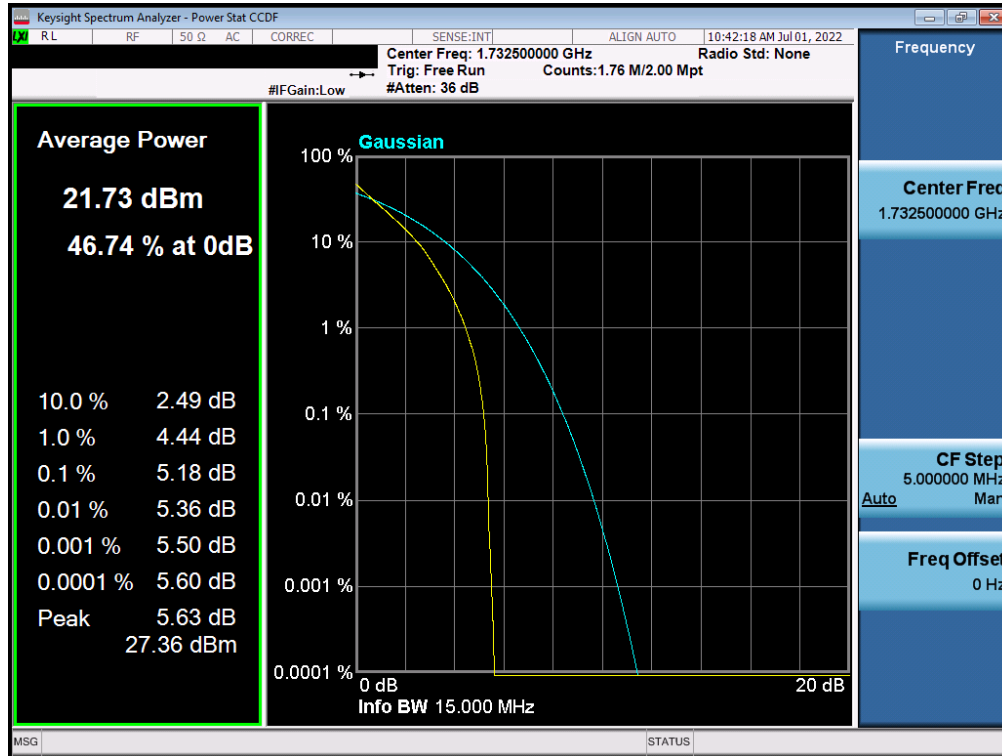
Plot 7-84. PAR Plot (LTE Band 4 - 20MHz QPSK - Full RB)



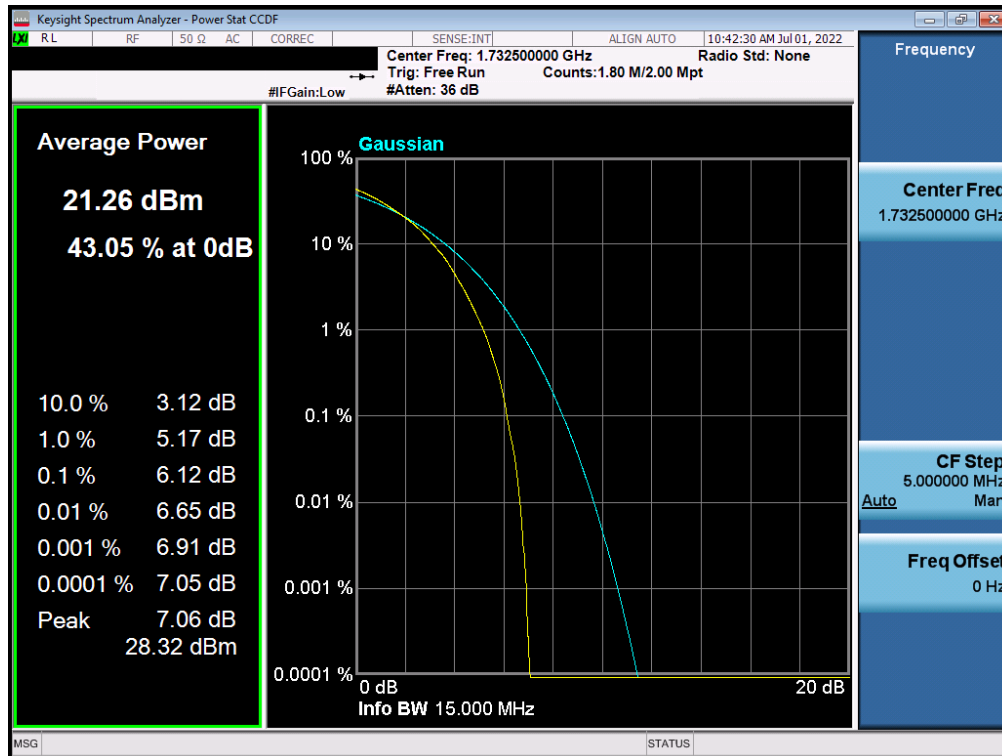
Plot 7-85. PAR Plot (LTE Band 4 - 20MHz 64QAM - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 61 of 85 |

V2.0 3/15/2021



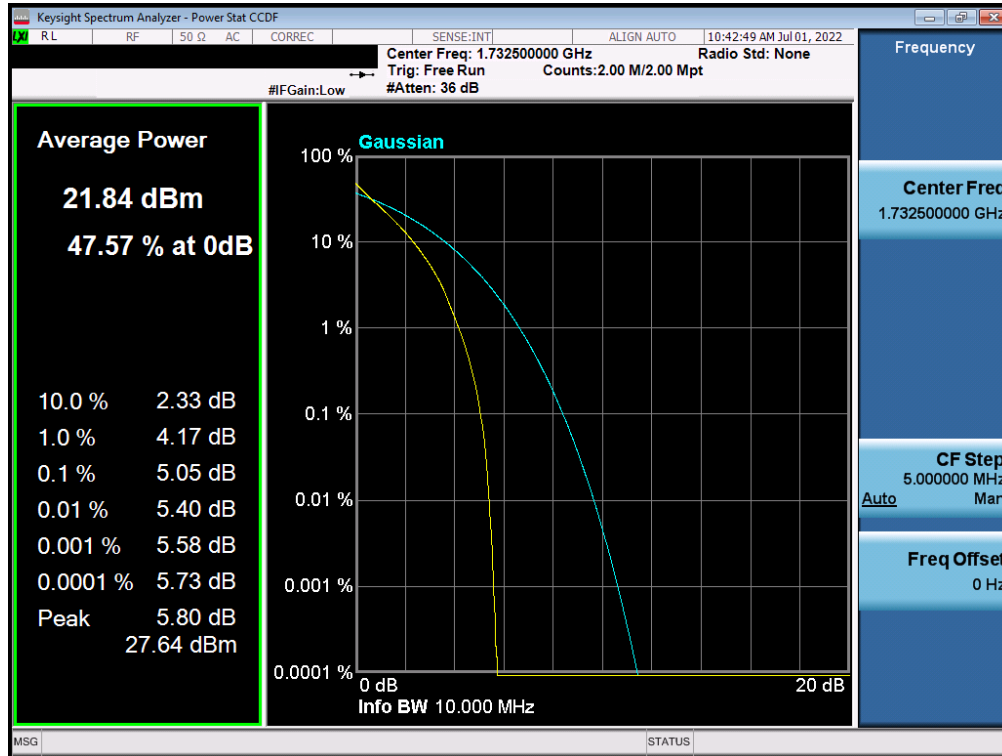
Plot 7-86. PAR Plot (LTE Band 4 - 15MHz QPSK - Full RB)



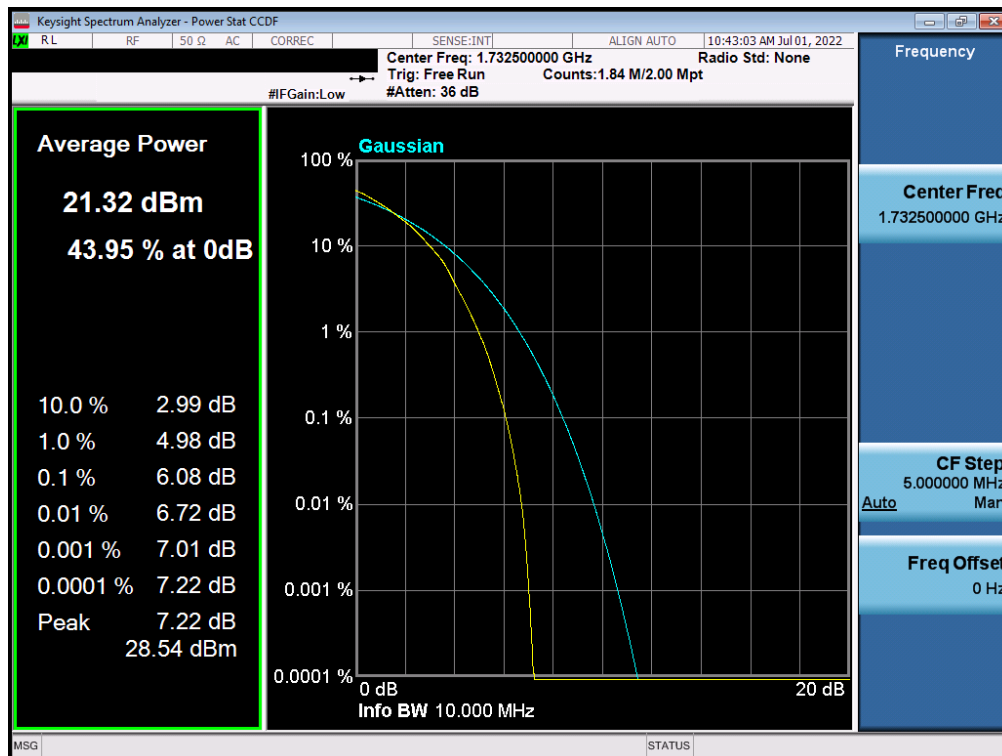
Plot 7-87. PAR Plot (LTE Band 4 - 15MHz 64QAM - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 62 of 85 |

V2.0 3/15/2021



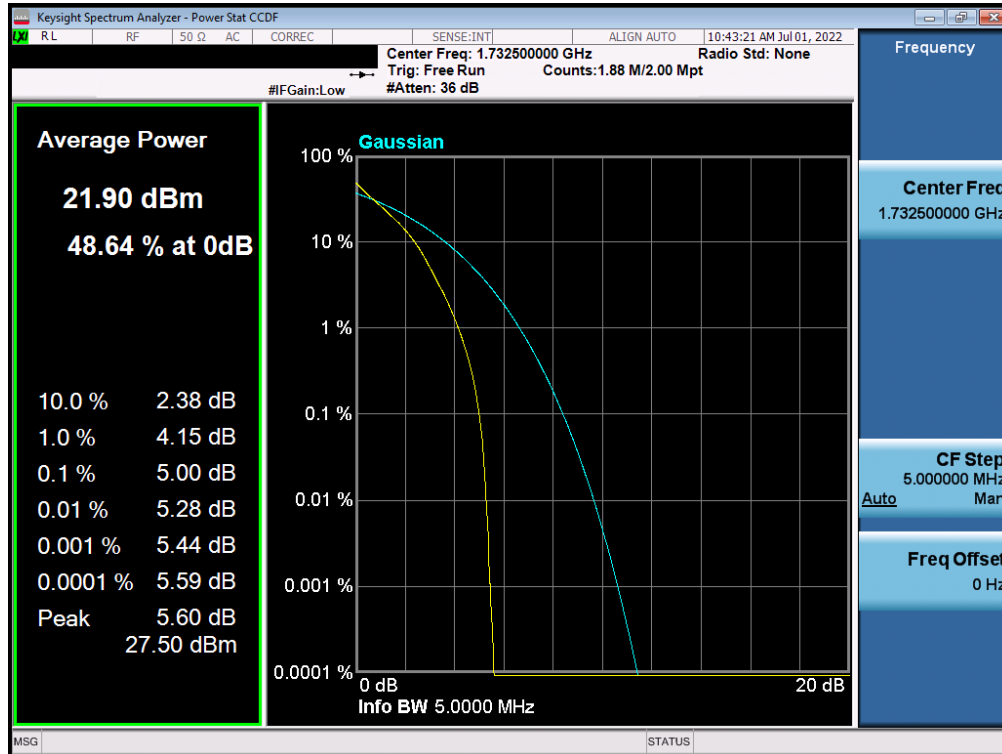
Plot 7-88. PAR Plot (LTE Band 4 - 10MHz QPSK - Full RB)



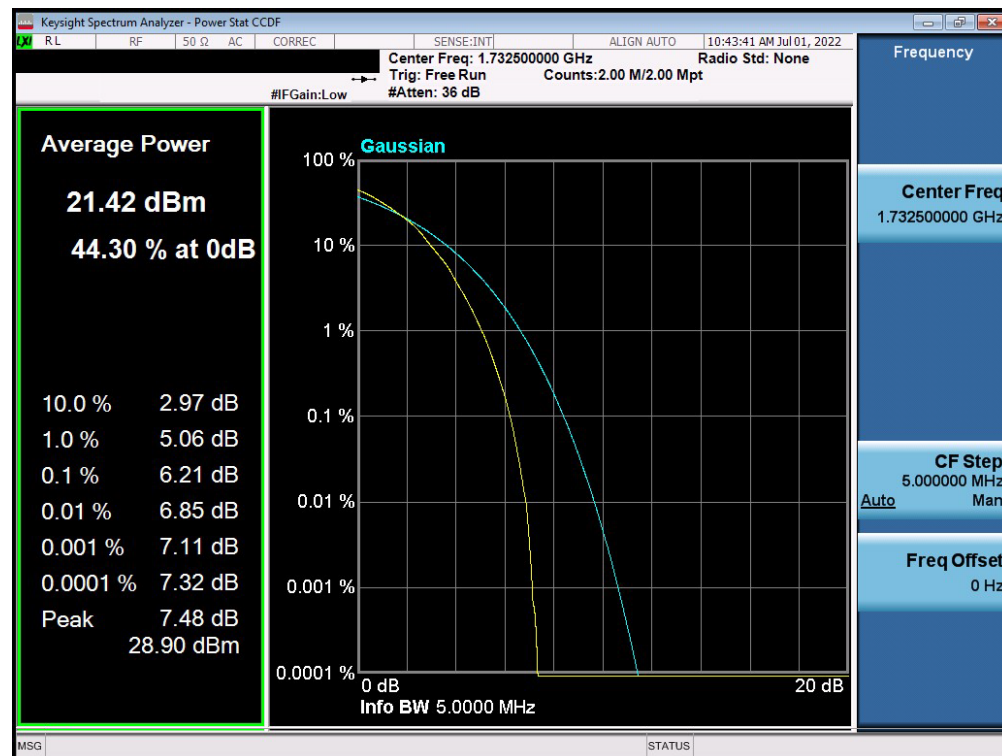
Plot 7-89. PAR Plot (LTE Band 4 - 10MHz 64QAM - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 63 of 85 |

V2.0 3/15/2021



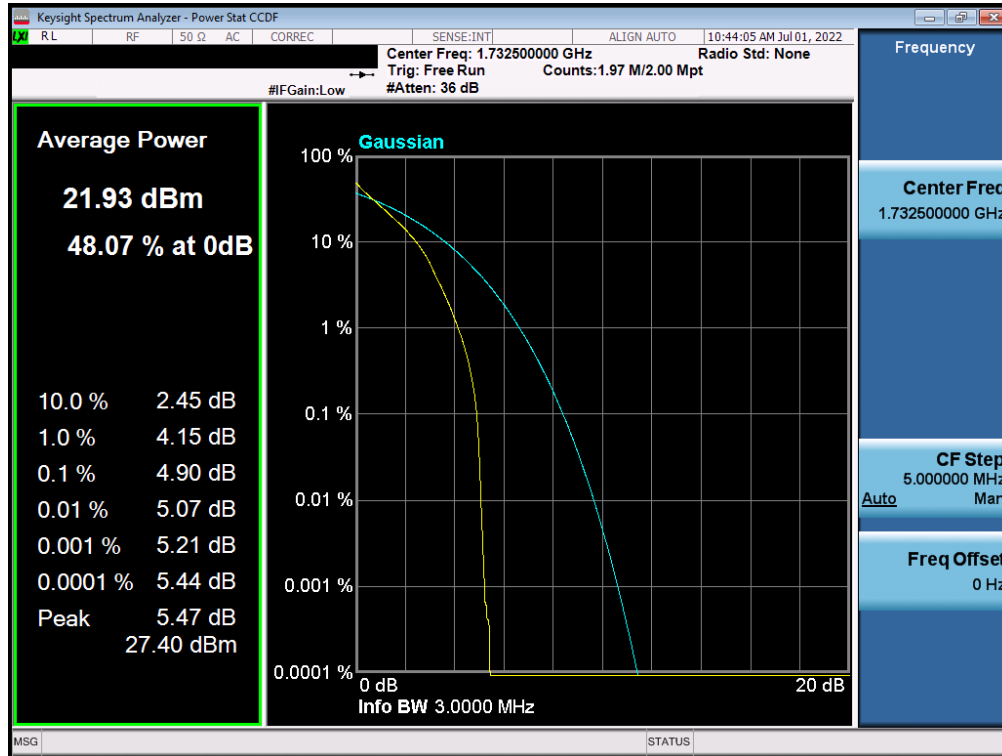
Plot 7-90. PAR Plot (LTE Band 4 - 5MHz QPSK - Full RB)



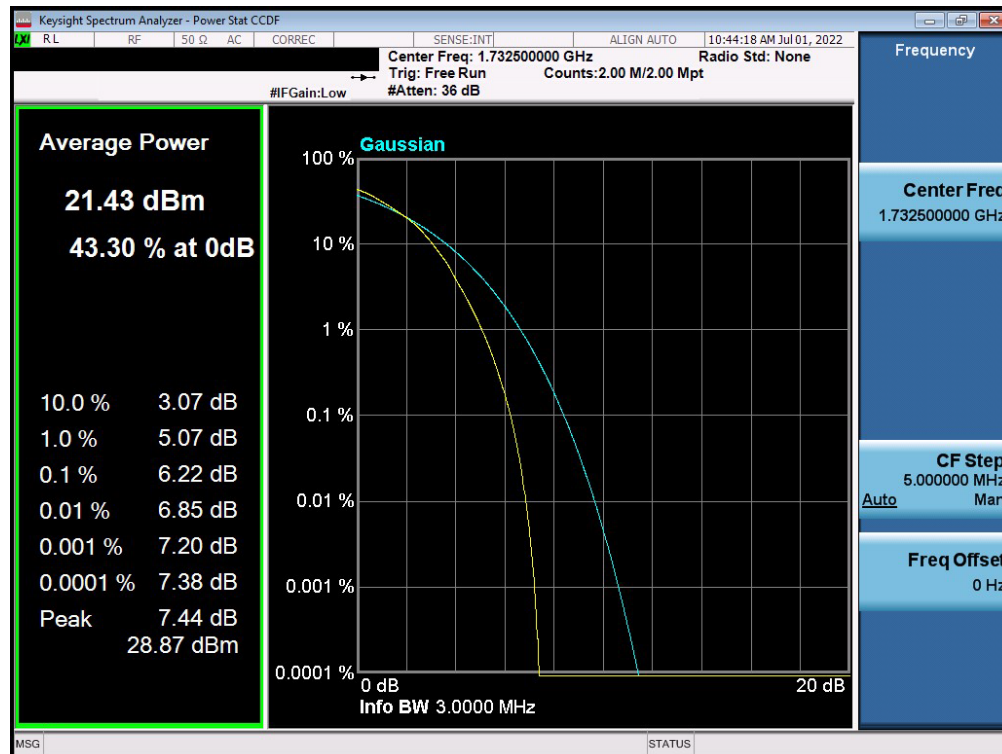
Plot 7-91. PAR Plot (LTE Band 4 - 5MHz 64QAM - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 64 of 85 |

V2.0 3/15/2021



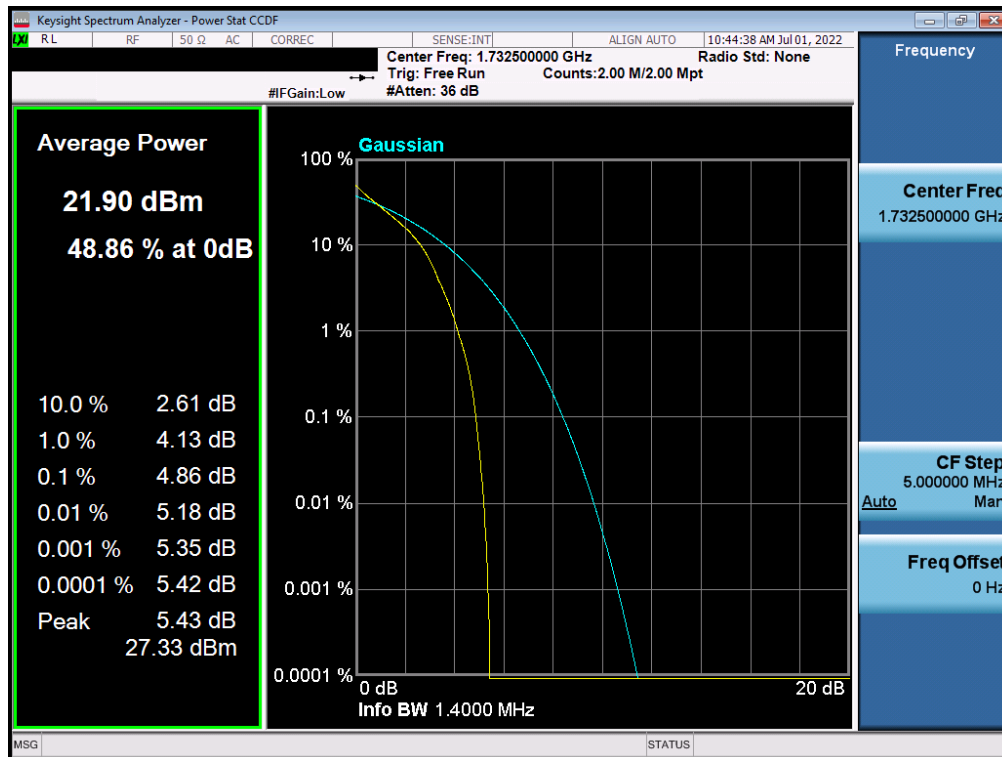
Plot 7-92. PAR Plot (LTE Band 4 - 3MHz QPSK - Full RB)



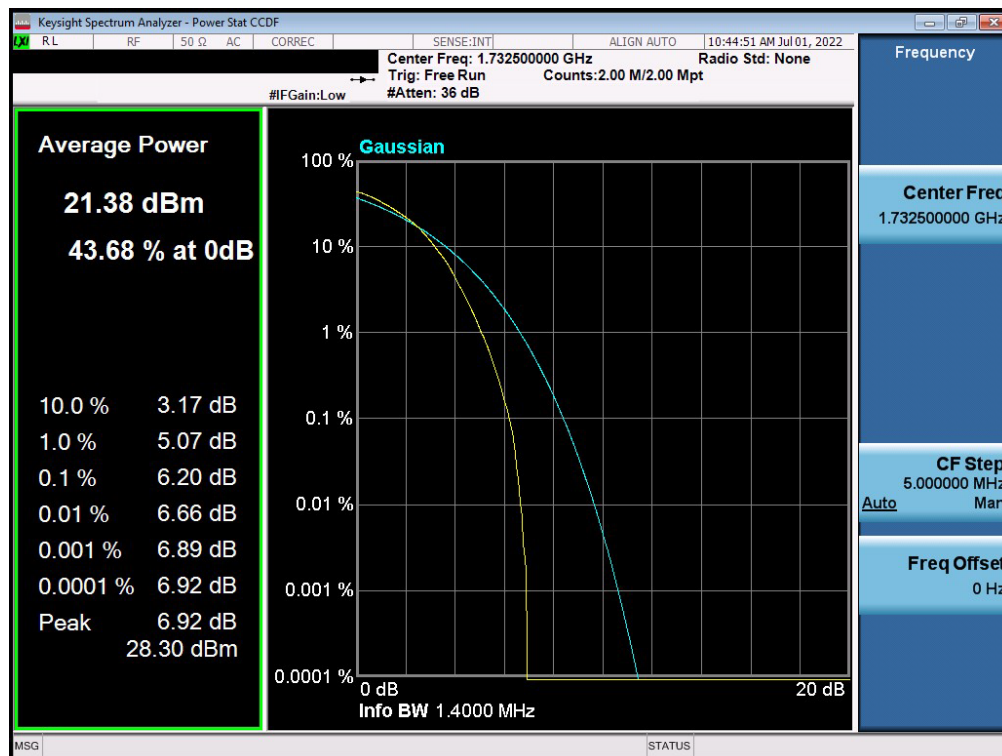
Plot 7-93. PAR Plot (LTE Band 4 - 3MHz 64QAM - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 65 of 85 |

V2.0 3/15/2021



Plot 7-94. PAR Plot (LTE Band 4 – 1.4MHz QPSK - Full RB)



Plot 7-95. PAR Plot (LTE Band 4 – 1.4MHz 64QAM - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 66 of 85 |

V2.0 3/15/2021

7.6 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 67 of 85 |

V2.0 3/15/2021

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

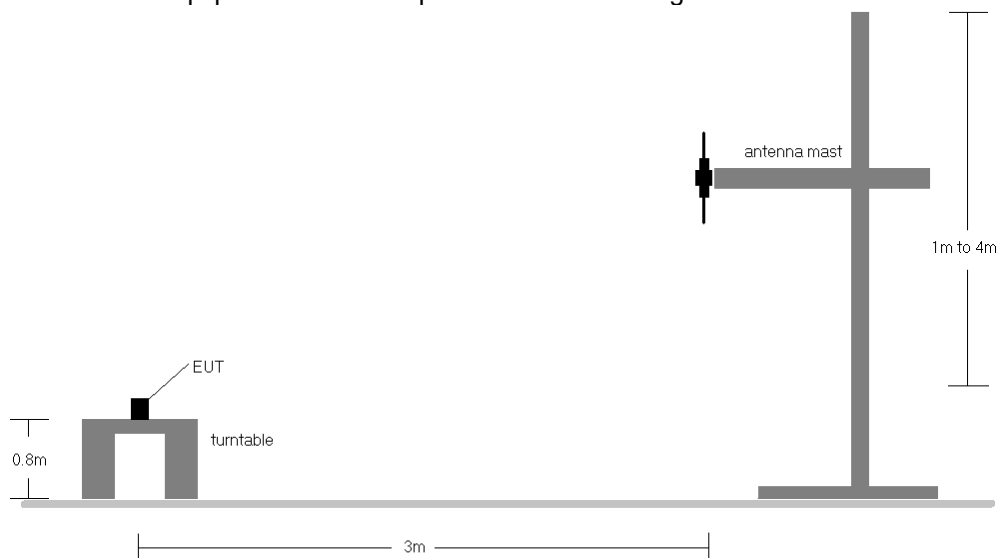


Figure 7-4. Radiated Test Setup <1GHz

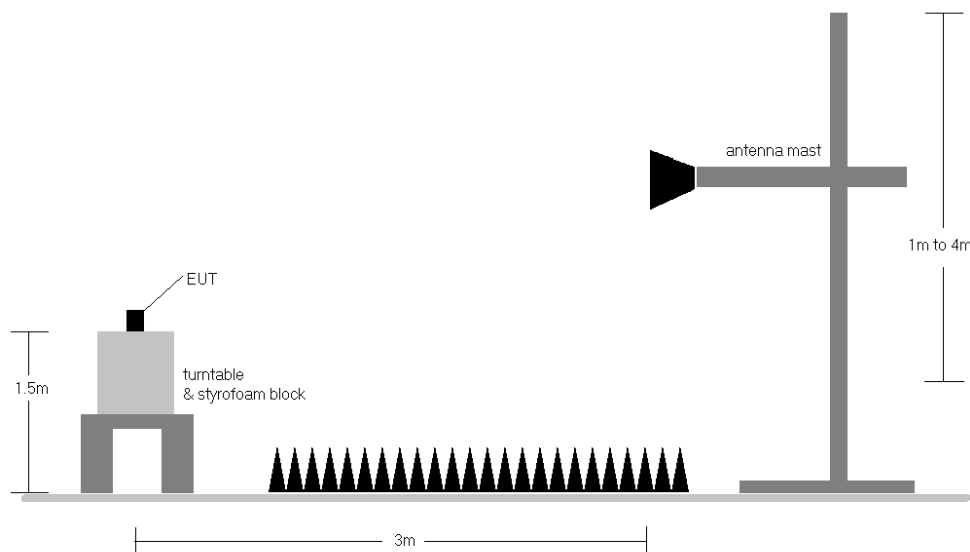


Figure 7-6. Radiated Test Setup < 1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 68 of 85 |

V2.0 3/15/2021

| 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 | 704.0 | V | 192 | 333 | 1.34 | 1 / 49 | 19.20 | 20.54 | 0.113 | 36.99 | -16.45 | 18.39 | 0.069 | 34.77 | -16.38 |
| | QPSK | 707.5 | V | 189 | 331 | 1.33 | 1 / 49 | 19.53 | 20.86 | 0.122 | 36.99 | -16.13 | 18.71 | 0.074 | 34.77 | -16.06 |
| | QPSK | 711.0 | V | 190 | 313 | 1.33 | 1 / 49 | 19.84 | 21.17 | 0.131 | 36.99 | -15.82 | 19.02 | 0.080 | 34.77 | -15.76 |
| | 16-QAM | 711.0 | V | 190 | 313 | 1.33 | 1 / 49 | 19.08 | 20.41 | 0.110 | 36.99 | -16.58 | 18.26 | 0.067 | 34.77 | -16.52 |
| 5 MHz | QPSK | 701.5 | V | 192 | 333 | 1.35 | 1 / 0 | 19.14 | 20.49 | 0.112 | 36.99 | -16.50 | 18.34 | 0.068 | 34.77 | -16.43 |
| | QPSK | 707.5 | V | 189 | 331 | 1.33 | 1 / 12 | 19.56 | 20.89 | 0.123 | 36.99 | -16.10 | 18.74 | 0.075 | 34.77 | -16.03 |
| | QPSK | 713.5 | V | 190 | 313 | 1.32 | 1 / 24 | 19.92 | 21.24 | 0.133 | 36.99 | -15.75 | 19.09 | 0.081 | 34.77 | -15.69 |
| | 16-QAM | 713.5 | V | 190 | 313 | 1.32 | 1 / 24 | 19.25 | 20.57 | 0.114 | 36.99 | -16.42 | 18.42 | 0.069 | 34.77 | -16.36 |
| 3 MHz | QPSK | 700.5 | V | 192 | 333 | 1.35 | 1 / 14 | 19.02 | 20.37 | 0.109 | 36.99 | -16.62 | 18.22 | 0.066 | 34.77 | -16.55 |
| | QPSK | 707.5 | V | 189 | 331 | 1.33 | 1 / 7 | 19.51 | 20.84 | 0.121 | 36.99 | -16.15 | 18.69 | 0.074 | 34.77 | -16.08 |
| | QPSK | 714.5 | V | 190 | 313 | 1.32 | 1 / 7 | 19.90 | 21.22 | 0.132 | 36.99 | -15.77 | 19.07 | 0.081 | 34.77 | -15.71 |
| | 16-QAM | 714.5 | V | 190 | 313 | 1.32 | 1 / 7 | 19.10 | 20.42 | 0.110 | 36.99 | -16.57 | 18.27 | 0.067 | 34.77 | -16.51 |
| 1.4 MHz | QPSK | 699.7 | V | 192 | 333 | 1.35 | 1 / 5 | 18.89 | 20.24 | 0.106 | 36.99 | -16.75 | 18.09 | 0.064 | 34.77 | -16.68 |
| | QPSK | 707.5 | V | 189 | 331 | 1.33 | 1 / 0 | 19.49 | 20.82 | 0.121 | 36.99 | -16.17 | 18.67 | 0.074 | 34.77 | -16.10 |
| | QPSK | 715.3 | V | 190 | 313 | 1.32 | 1 / 5 | 19.87 | 21.19 | 0.131 | 36.99 | -15.80 | 19.04 | 0.080 | 34.77 | -15.74 |
| | 16-QAM | 715.3 | V | 190 | 313 | 1.32 | 1 / 5 | 19.14 | 20.46 | 0.111 | 36.99 | -16.53 | 18.31 | 0.068 | 34.77 | -16.47 |
| 10 MHz | Opposite Pol. | 711.0 | H | 103 | 194 | 1.33 | 1 / 0 | 18.86 | 20.19 | 0.104 | 36.99 | -16.80 | 18.04 | 0.064 | 34.77 | -16.74 |
| 5 MHz | WCP | 711.0 | V | 153 | 351 | 1.33 | 1 / 25 | 13.78 | 15.11 | 0.032 | 36.99 | -21.88 | 12.96 | 0.020 | 34.77 | -21.82 |
| 5 MHz | QPSK (Open) | 713.5 | V | 100 | 286 | 1.32 | 1 / 24 | 18.97 | 20.29 | 0.107 | 36.99 | -16.70 | 18.14 | 0.065 | 34.77 | -16.64 |

Table 7-2. ERP Data (LTE Band 12) – HALF OPEN

| 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 | 782.0 | V | 159 | 338 | 1.17 | 1 / 49 | 19.01 | 20.18 | 0.104 | 36.99 | -16.81 | 18.03 | 0.064 | 34.77 | -16.74 |
| | 16-QAM | 782.0 | V | 159 | 338 | 1.17 | 1 / 49 | 18.30 | 19.47 | 0.088 | 36.99 | -17.52 | 17.32 | 0.054 | 34.77 | -17.45 |
| 5 MHz | QPSK | 779.5 | V | 159 | 338 | 1.17 | 1 / 12 | 18.83 | 20.01 | 0.100 | 36.99 | -16.98 | 17.86 | 0.061 | 34.77 | -16.91 |
| | QPSK | 782.0 | V | 159 | 338 | 1.17 | 1 / 12 | 18.94 | 20.11 | 0.103 | 36.99 | -16.88 | 17.96 | 0.062 | 34.77 | -16.81 |
| | QPSK | 784.5 | V | 159 | 338 | 1.16 | 1 / 24 | 18.65 | 19.81 | 0.096 | 36.99 | -17.18 | 17.66 | 0.058 | 34.77 | -17.11 |
| | 16-QAM | 782.0 | V | 159 | 338 | 1.17 | 1 / 12 | 18.27 | 19.44 | 0.088 | 36.99 | -17.55 | 17.29 | 0.054 | 34.77 | -17.48 |
| 10 MHz | Opposite Pol. | 782.0 | H | 230 | 200 | 1.17 | 1 / 0 | 17.08 | 18.25 | 0.067 | 36.99 | -18.74 | 16.10 | 0.041 | 34.77 | -18.67 |
| | WCP | 782.0 | V | 140 | 245 | 1.17 | 1 / 49 | 17.27 | 18.44 | 0.070 | 36.99 | -18.55 | 16.29 | 0.043 | 34.77 | -18.48 |
| | QPSK (Open) | 782.0 | V | 147 | 230 | 1.17 | 1 / 49 | 18.73 | 19.90 | 0.098 | 36.99 | -17.09 | 17.75 | 0.060 | 34.77 | -17.02 |

Table 7-3. ERP Data (LTE Band 13) – HALF OPEN

| 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] |
|-----------|---------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|------------|--------------|------------------|-------------|
| 20 MHz | QPSK | 1720.0 | V | 139 | 325 | 8.70 | 1 / 0 | 12.31 | 21.01 | 0.126 | 30.00 | -8.99 |
| | QPSK | 1732.5 | V | 144 | 334 | 8.70 | 1 / 0 | 11.75 | 20.45 | 0.111 | 30.00 | -9.55 |
| | QPSK | 1745.0 | V | 135 | 341 | 8.70 | 1 / 0 | 10.92 | 19.62 | 0.092 | 30.00 | -10.38 |
| | 16-QAM | 1720.0 | V | 139 | 325 | 8.70 | 1 / 0 | 12.06 | 20.76 | 0.119 | 30.00 | -9.24 |
| 15 MHz | QPSK | 1717.5 | V | 139 | 325 | 8.70 | 1 / 37 | 12.38 | 21.08 | 0.128 | 30.00 | -8.92 |
| | QPSK | 1732.5 | V | 144 | 334 | 8.70 | 1 / 37 | 11.74 | 20.44 | 0.111 | 30.00 | -9.56 |
| | QPSK | 1747.5 | V | 135 | 341 | 8.70 | 1 / 37 | 10.91 | 19.61 | 0.091 | 30.00 | -10.39 |
| | 16-QAM | 1717.5 | V | 139 | 325 | 8.70 | 1 / 37 | 12.14 | 20.84 | 0.121 | 30.00 | -9.16 |
| 10 MHz | QPSK | 1715.0 | V | 139 | 325 | 8.70 | 1 / 25 | 12.48 | 21.18 | 0.131 | 30.00 | -8.82 |
| | QPSK | 1732.5 | V | 144 | 334 | 8.70 | 1 / 25 | 11.72 | 20.42 | 0.110 | 30.00 | -9.58 |
| | QPSK | 1750.0 | V | 135 | 341 | 8.70 | 1 / 25 | 10.98 | 19.68 | 0.093 | 30.00 | -10.32 |
| | 16-QAM | 1715.0 | V | 139 | 325 | 8.70 | 1 / 25 | 12.16 | 20.86 | 0.122 | 30.00 | -9.14 |
| 5 MHz | QPSK | 1712.5 | V | 139 | 325 | 8.70 | 1 / 12 | 12.45 | 21.15 | 0.130 | 30.00 | -8.85 |
| | QPSK | 1732.5 | V | 144 | 334 | 8.70 | 1 / 12 | 11.72 | 20.42 | 0.110 | 30.00 | -9.58 |
| | QPSK | 1752.5 | V | 135 | 341 | 8.70 | 1 / 12 | 10.95 | 19.65 | 0.092 | 30.00 | -10.35 |
| | 16-QAM | 1712.5 | V | 139 | 325 | 8.70 | 1 / 12 | 12.06 | 20.76 | 0.119 | 30.00 | -9.24 |
| 3 MHz | QPSK | 1711.5 | V | 139 | 325 | 8.70 | 1 / 7 | 12.47 | 21.17 | 0.131 | 30.00 | -8.83 |
| | QPSK | 1732.5 | V | 144 | 334 | 8.70 | 1 / 7 | 11.68 | 20.38 | 0.109 | 30.00 | -9.62 |
| | QPSK | 1753.5 | V | 135 | 341 | 8.70 | 1 / 7 | 10.96 | 19.66 | 0.093 | 30.00 | -10.34 |
| | 16-QAM | 1711.5 | V | 139 | 325 | 8.70 | 1 / 7 | 12.07 | 20.77 | 0.119 | 30.00 | -9.23 |
| 1.4 MHz | QPSK | 1710.7 | V | 139 | 325 | 8.70 | 1 / 3 | 12.38 | 21.08 | 0.128 | 30.00 | -8.92 |
| | QPSK | 1732.5 | V | 144 | 334 | 8.70 | 1 / 3 | 11.65 | 20.35 | 0.108 | 30.00 | -9.65 |
| | QPSK | 1754.3 | V | 135 | 341 | 8.70 | 1 / 3 | 10.95 | 19.65 | 0.092 | 30.00 | -10.35 |
| | 16-QAM | 1710.7 | V | 139 | 325 | 8.70 | 1 / 3 | 11.97 | 20.67 | 0.117 | 30.00 | -9.33 |
| 20 MHz | Opposite Pol. | 1720.0 | H | 132 | 196 | 8.70 | 1 / 99 | 11.78 | 20.48 | 0.112 | 30.00 | -9.52 |
| 20 MHz | WCP | 1720.0 | V | 142 | 298 | 8.70 | 1 / 0 | 8.48 | 17.18 | 0.052 | 30.00 | -12.82 |
| 10 MHz | QPSK (Open) | 1715.0 | V | 136 | 318 | 8.70 | 1 / 25 | 12.40 | 21.10 | 0.129 | 30.00 | -8.90 |

Table 7-4. EIRP Data (LTE Band 4) – HALF OPEN

| | | | | |
|---|--|-------------------------------|---------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 69 of 85 | |

7.7 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 70 of 85 |

V2.0 3/15/2021

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

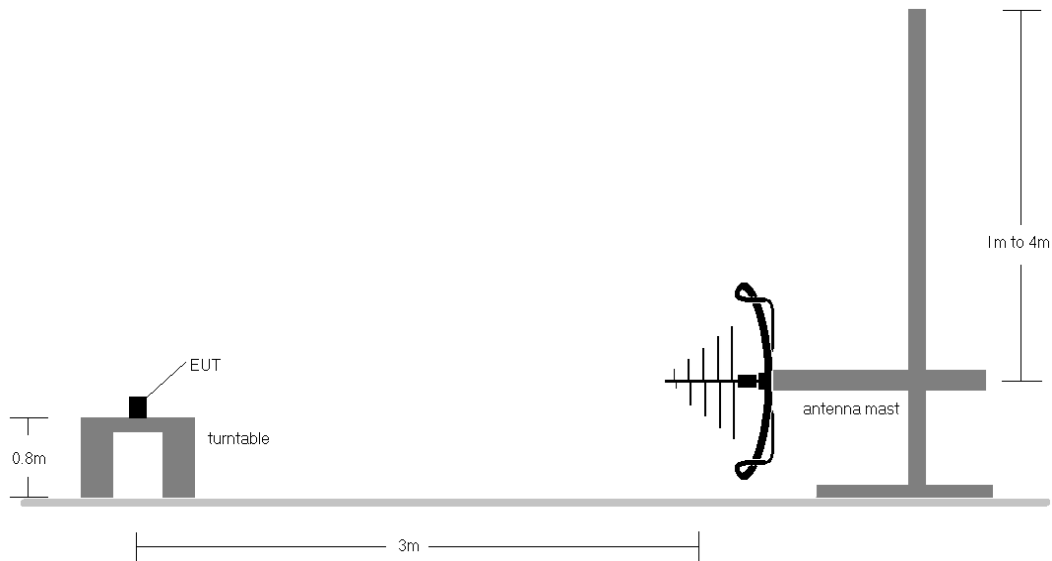


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

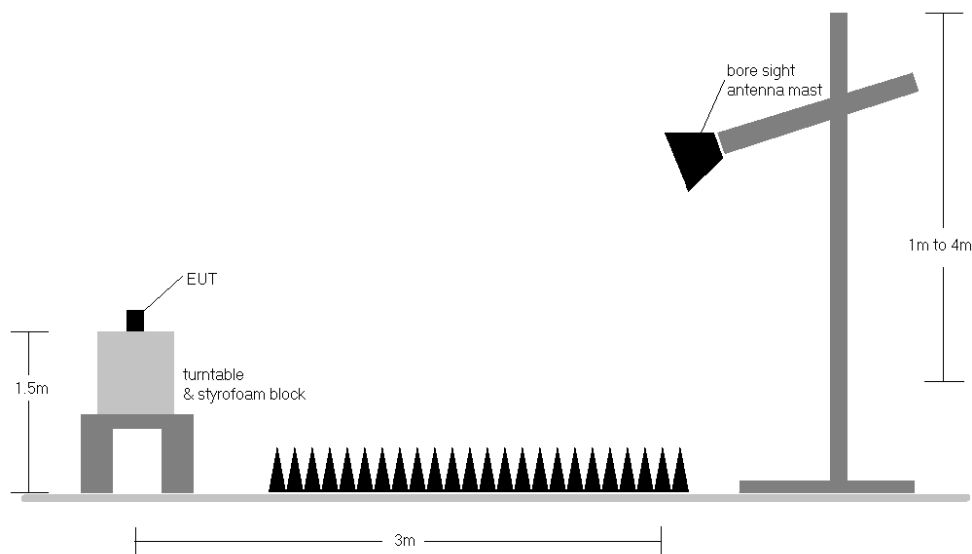


Figure 7-8. Test Instrument & Measurement Setup > 1GHz

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 71 of 85 |

V2.0 3/15/2021

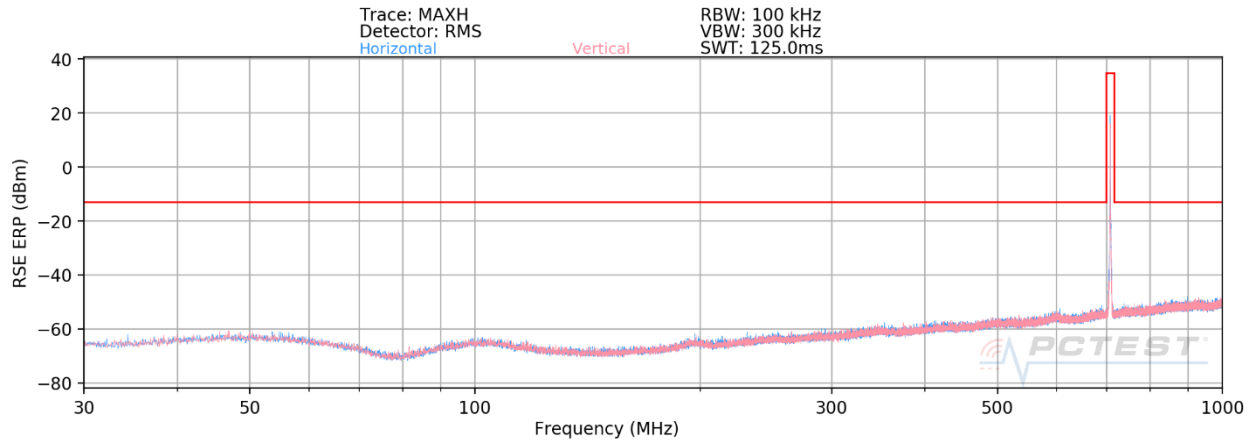
Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 72 of 85 |

V2.0 3/15/2021

LTE Band 12

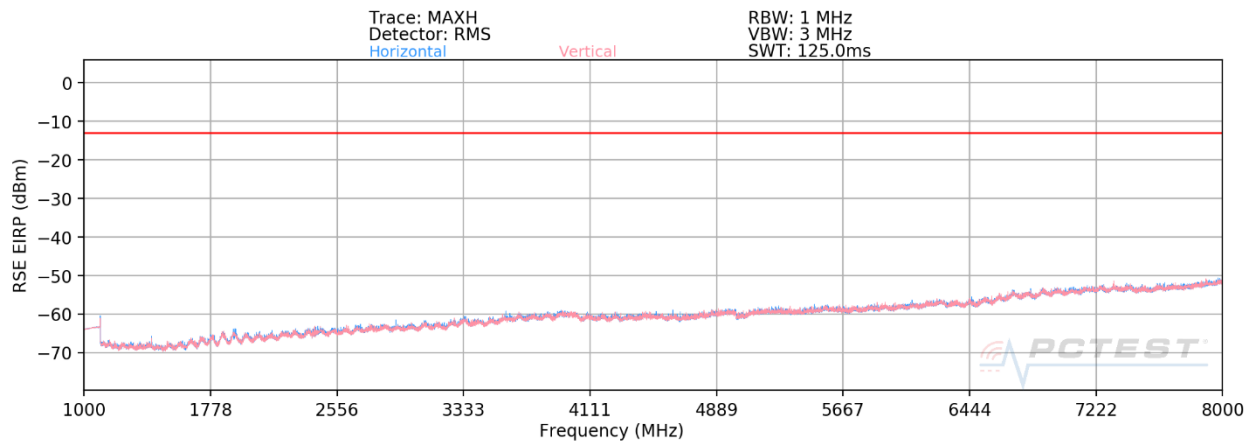


Plot 7-96. Radiated Spurious Plot Below 1GHz (LTE Band 12) – OPEN

| | |
|------------------|--------|
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 919.76 | V | - | - | -93.21 | 25.24 | 39.03 | -56.23 | -13.00 | -43.23 |

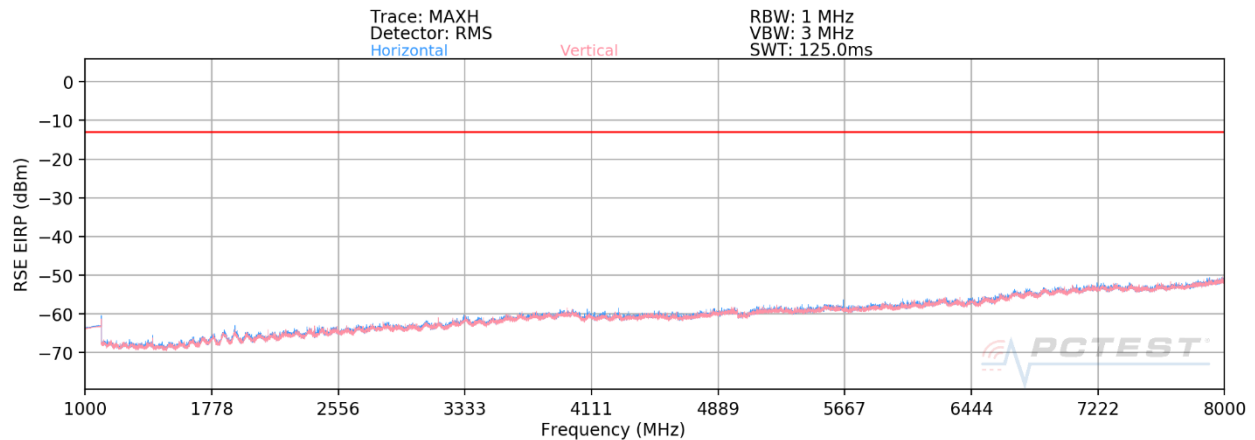
Table 7-5. Radiated Spurious Data (LTE Band 12) – OPEN



Plot 7-97. Radiated Spurious Plot Above 1GHz (LTE Band 12) – OPEN

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 73 of 85 |

V2.0 3/15/2021



Plot 7-98. Radiated Spurious Plot Above 1GHz (LTE Band 12) – CLOSE

| | |
|------------------|--------|
| 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 | V | 275 | 259 | -70.93 | -8.24 | 27.83 | -67.43 | -13.00 | -54.43 |
| 2112.00 | V | - | - | -75.91 | -5.73 | 25.36 | -69.90 | -13.00 | -56.90 |
| 2816.00 | V | - | - | -76.83 | -3.00 | 27.17 | -68.08 | -13.00 | -55.08 |
| 3520.00 | V | - | - | -76.45 | -0.72 | 29.83 | -65.43 | -13.00 | -52.43 |
| 4224.00 | V | - | - | -77.73 | 0.91 | 30.18 | -65.08 | -13.00 | -52.08 |

Table 7-6. Radiated Spurious Data (LTE Band 12 – Low Channel) – OPEN

| | |
|------------------|--------|
| 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 | V | 273 | 282 | -71.18 | -8.29 | 27.53 | -67.72 | -13.00 | -54.72 |
| 2122.50 | V | - | - | -75.75 | -5.73 | 25.52 | -69.74 | -13.00 | -56.74 |
| 2830.00 | V | - | - | -76.54 | -3.01 | 27.45 | -67.81 | -13.00 | -54.81 |
| 3537.50 | V | - | - | -77.05 | -0.63 | 29.32 | -65.94 | -13.00 | -52.94 |
| 4245.00 | V | - | - | -77.28 | 0.86 | 30.58 | -64.68 | -13.00 | -51.68 |

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

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 74 of 85 |

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

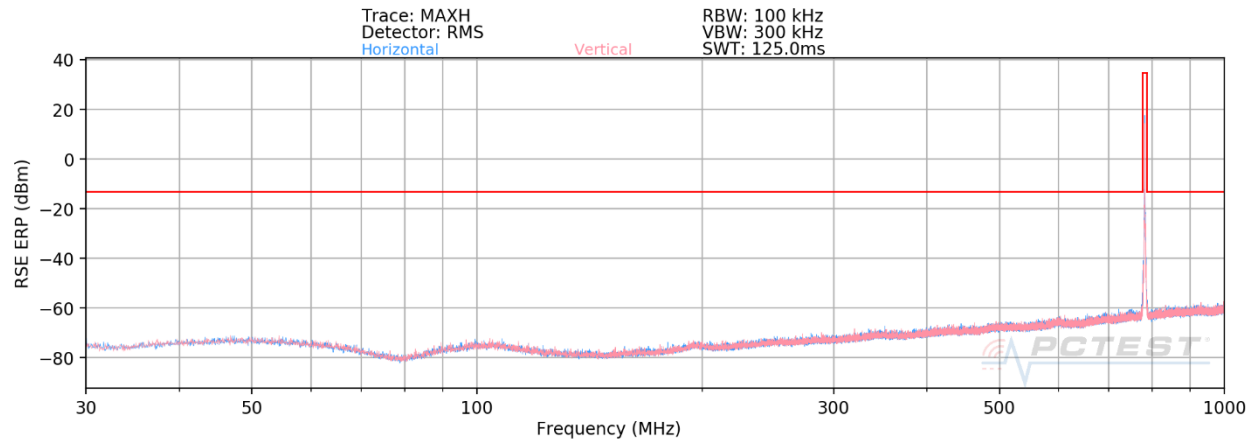
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 1422.00 | V | 266 | 278 | -73.02 | -8.44 | 25.54 | -69.71 | -13.00 | -56.71 |
| 2133.00 | V | - | - | -75.49 | -5.66 | 25.85 | -69.41 | -13.00 | -56.41 |
| 2844.00 | V | - | - | -76.20 | -3.01 | 27.79 | -67.46 | -13.00 | -54.46 |
| 3555.00 | V | - | - | -77.51 | -0.27 | 29.22 | -66.04 | -13.00 | -53.04 |
| 4266.00 | V | - | - | -76.98 | 1.18 | 31.20 | -64.06 | -13.00 | -51.06 |

Table 7-8. Radiated Spurious Data (LTE Band 12 – High Channel) – OPEN

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 75 of 85 |

V2.0 3/15/2021

LTE Band 13

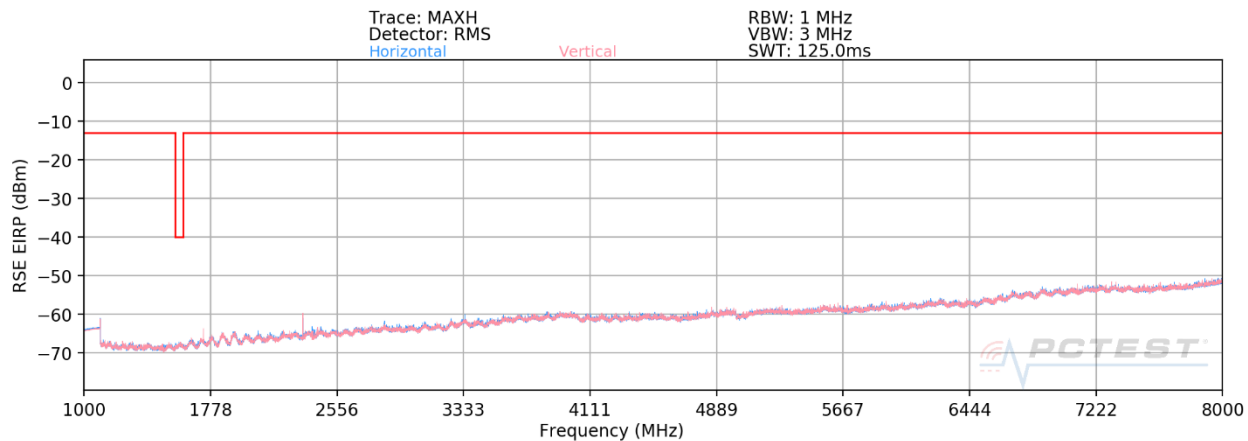


Plot 7-99. Radiated Spurious Plot Below 1GHz (LTE Band 13) – HALF OPEN

| | |
|------------------|--------|
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 917.21 | H | - | - | -93.37 | 25.24 | 38.87 | -56.39 | -13.00 | -43.39 |

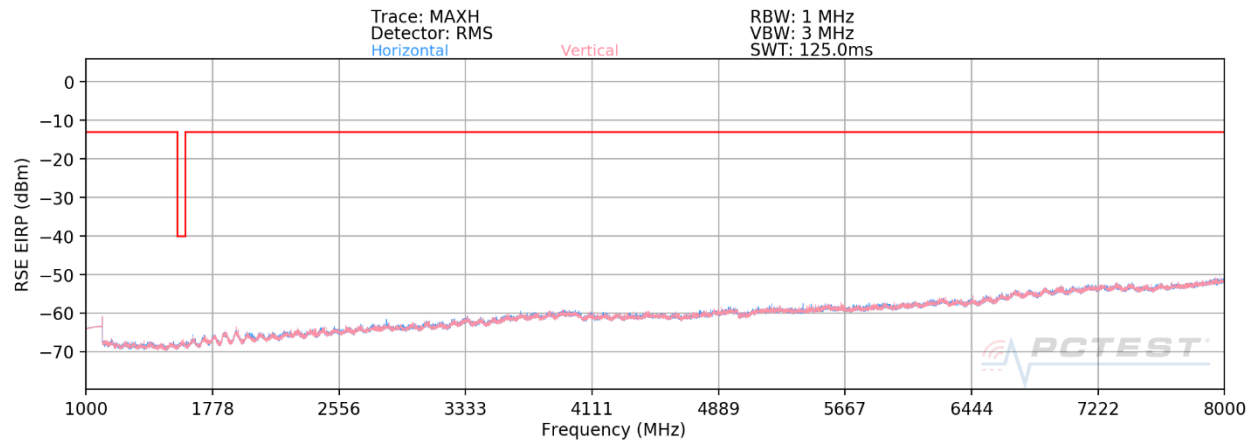
Table 7-9. Radiated Spurious Data (LTE Band 13) – HALF OPEN



Plot 7-100. Radiated Spurious Plot Above 1GHz (LTE Band 13) – HALF OPEN

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 76 of 85 |

V2.0 3/15/2021



Plot 7-101. Radiated Spurious Plot Above 1GHz (LTE Band 13) – CLOSE

| | |
|------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 782 |
| RB / Offset: | 1 / 49 |

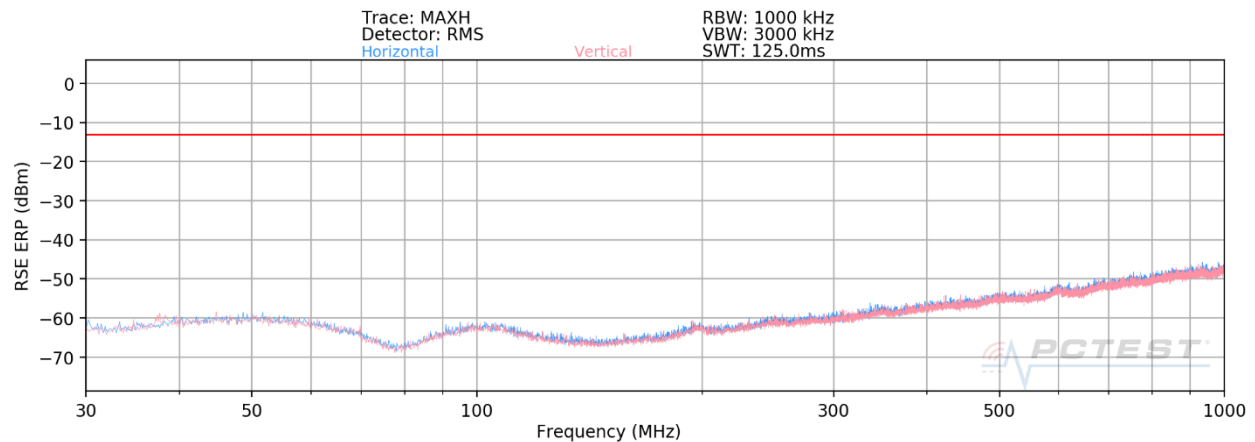
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1564.00 | H | 148 | 228 | -74.95 | -8.26 | 23.79 | -71.47 | -40.00 | -31.47 |
| 2346.00 | H | 151 | 222 | -74.98 | -4.81 | 27.21 | -68.05 | -13.00 | -55.05 |
| 3128.00 | H | - | - | -77.65 | -1.29 | 28.06 | -67.19 | -13.00 | -54.19 |
| 3910.00 | H | - | - | -77.28 | 1.38 | 31.10 | -64.16 | -13.00 | -51.16 |
| 4692.00 | H | - | - | -77.65 | 1.27 | 30.62 | -64.63 | -13.00 | -51.63 |
| 5474.00 | H | - | - | -78.28 | 3.47 | 32.19 | -63.07 | -13.00 | -50.07 |

Table 7-10. Radiated Spurious Data (LTE Band 13 – Mid Channel) – HALF OPEN

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 77 of 85 |

V2.0 3/15/2021

LTE Band 4

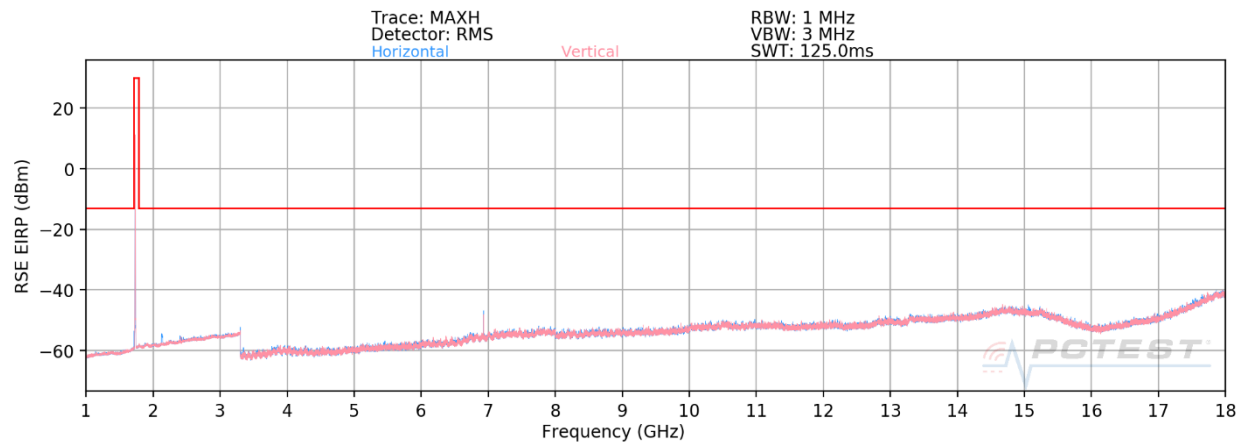


Plot 7-102. Radiated Spurious Plot Below 1GHz (LTE Band 4) – OPEN

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1732.5 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 997.34 | H | - | - | -87.26 | 25.88 | 45.62 | -49.64 | -13.00 | -36.64 |

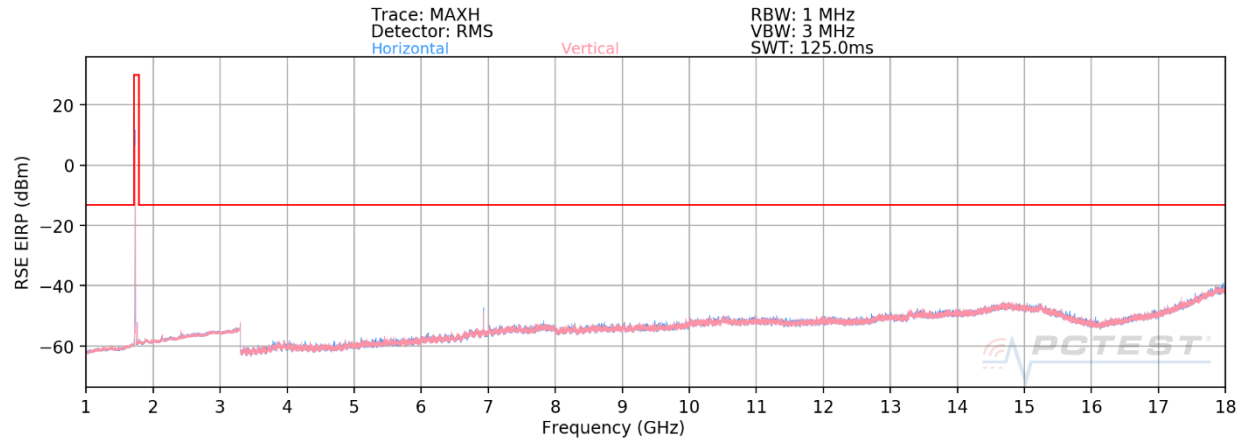
Table 7-11. Radiated Spurious Data (LTE Band 4) – OPEN



Plot 7-103. Radiated Spurious Plot Above 1GHz (LTE Band 4) – OPEN

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 78 of 85 |

V2.0 3/15/2021



Plot 7-104. Radiated Spurious Plot Above 1GHz (LTE Band 4) – CLOSE

| | |
|------------------|--------|
| 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 | - | - | -76.73 | 0.23 | 30.50 | -64.76 | -13.00 | -51.76 |
| 5160.00 | H | 118 | 312 | -76.29 | 3.20 | 33.91 | -61.35 | -13.00 | -48.35 |
| 6880.00 | H | 101 | 306 | -70.57 | 7.54 | 43.97 | -51.29 | -13.00 | -38.29 |
| 8600.00 | H | 123 | 302 | -82.50 | 11.20 | 35.70 | -59.56 | -13.00 | -46.56 |
| 10320.00 | H | - | - | -84.50 | 14.50 | 37.00 | -58.25 | -13.00 | -45.25 |
| 12040.00 | H | - | - | -85.33 | 15.57 | 37.24 | -58.02 | -13.00 | -45.02 |
| 13760.00 | H | - | - | -84.57 | 17.72 | 40.15 | -55.11 | -13.00 | -42.11 |
| 15480.00 | H | - | - | -85.10 | 16.94 | 38.84 | -56.41 | -13.00 | -43.41 |

Table 7-12. Radiated Spurious Data (LTE Band 4 – Low Channel) – OPEN

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1732.5 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3465.00 | H | - | - | -76.79 | 0.13 | 30.34 | -64.92 | -13.00 | -51.92 |
| 5197.50 | H | 109 | 314 | -73.76 | 3.04 | 36.28 | -58.97 | -13.00 | -45.97 |
| 6930.00 | H | 101 | 309 | -68.58 | 7.89 | 46.31 | -48.94 | -13.00 | -35.94 |
| 8662.50 | H | 101 | 304 | -81.02 | 11.22 | 37.20 | -58.05 | -13.00 | -45.05 |
| 10395.00 | H | - | - | -83.57 | 13.78 | 37.21 | -58.05 | -13.00 | -45.05 |
| 12127.50 | H | - | - | -84.68 | 15.52 | 37.84 | -57.41 | -13.00 | -44.41 |
| 13860.00 | H | - | - | -85.19 | 18.24 | 40.05 | -55.21 | -13.00 | -42.21 |
| 15592.50 | H | - | - | -84.54 | 16.25 | 38.71 | -56.54 | -13.00 | -43.54 |

Table 7-13. Radiated Spurious Data (LTE Band 4 – Mid Channel) – OPEN

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 79 of 85 |

V2.0 3/15/2021

| | |
|------------------|--------|
| 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 | - | - | -76.11 | 0.29 | 31.18 | -64.08 | -13.00 | -51.08 |
| 5235.00 | H | 101 | 313 | -75.12 | 2.90 | 34.78 | -60.48 | -13.00 | -47.48 |
| 6980.00 | H | 101 | 302 | -69.89 | 8.01 | 45.12 | -50.14 | -13.00 | -37.14 |
| 8725.00 | H | 112 | 302 | -81.08 | 11.03 | 36.95 | -58.31 | -13.00 | -45.31 |
| 10470.00 | H | - | - | -83.77 | 13.74 | 36.97 | -58.29 | -13.00 | -45.29 |
| 12215.00 | H | - | - | -85.08 | 16.16 | 38.08 | -57.18 | -13.00 | -44.18 |
| 13960.00 | H | - | - | -85.51 | 18.50 | 39.99 | -55.27 | -13.00 | -42.27 |
| 15705.00 | H | - | - | -84.49 | 16.38 | 38.89 | -56.36 | -13.00 | -43.36 |

Table 7-14. Radiated Spurious Data (LTE Band 4 – High Channel) – OPEN

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 80 of 85 |

V2.0 3/15/2021

7.8 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

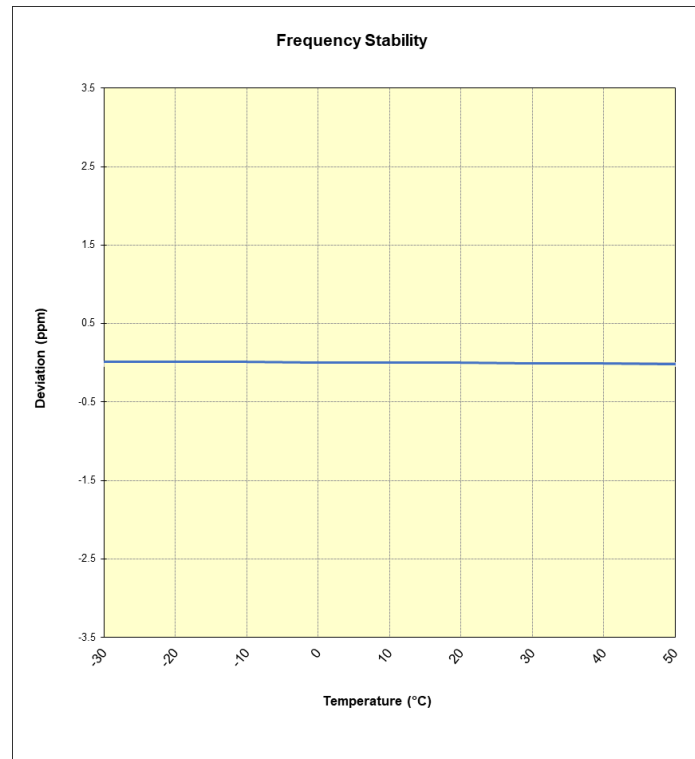
None

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 81 of 85 |

Frequency Stability / Temperature Variation

| LTE Band 12 | | | | | |
|------------------|-------------|---------------------------|----------------|-----------------------|---------------|
| | | Operating Frequency (Hz): | | 707,500,000 | |
| | | Ref. Voltage (VDC): | | 4.25 | |
| | | Deviation Limit: | | ± 0.00025% or 2.5 ppm | |
| Voltage (%) | Power (VDC) | Temp (°C) | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 4.25 | - 30 | 707,500,007 | 9 | 0.0000013 |
| | | - 20 | 707,500,007 | 9 | 0.0000013 |
| | | - 10 | 707,500,008 | 10 | 0.0000014 |
| | | 0 | 707,500,003 | 5 | 0.0000007 |
| | | + 10 | 707,500,004 | 6 | 0.0000008 |
| | | + 20 (Ref) | 707,499,998 | 0 | 0.0000000 |
| | | + 30 | 707,499,994 | -4 | -0.0000006 |
| | | + 40 | 707,499,991 | -6 | -0.0000009 |
| | | + 50 | 707,499,989 | -9 | -0.0000012 |
| Battery Endpoint | 3.58 | + 20 | 707,499,995 | -2 | -0.0000003 |

Table 7-15. LTE Band 12 Frequency Stability Data



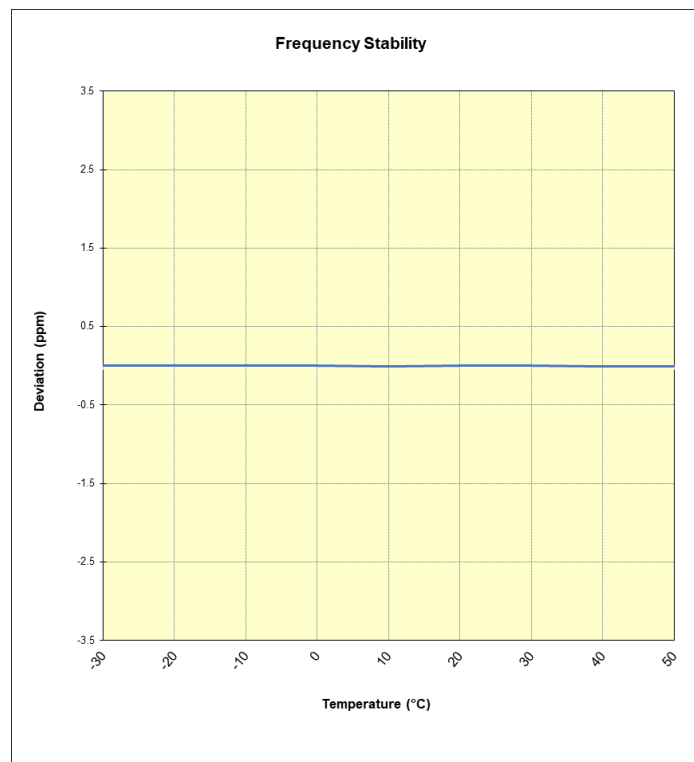
Plot 7-105. LTE Band 12 Frequency Stability Chart

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 82 of 85 |

V2.0 3/15/2021

| LTE Band 13 | | | | | |
|------------------|-------------|---------------------------|----------------|-----------------------|---------------|
| | | Operating Frequency (Hz): | | 782,000,000 | |
| | | Ref. Voltage (VDC): | | 4.25 | |
| | | Deviation Limit: | | ± 0.00025% or 2.5 ppm | |
| Voltage (%) | Power (VDC) | Temp (°C) | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 4.25 | - 30 | 782,000,008 | 4 | 0.0000006 |
| | | - 20 | 782,000,009 | 5 | 0.0000007 |
| | | - 10 | 782,000,010 | 6 | 0.0000007 |
| | | 0 | 782,000,008 | 4 | 0.0000005 |
| | | + 10 | 781,999,996 | -8 | -0.0000011 |
| | | + 20 (Ref) | 782,000,004 | 0 | 0.0000000 |
| | | + 30 | 782,000,006 | 2 | 0.0000003 |
| | | + 40 | 781,999,998 | -6 | -0.0000007 |
| Battery Endpoint | 3.58 | + 50 | 781,999,996 | -8 | -0.0000010 |
| | | + 20 | 782,000,005 | 1 | 0.0000002 |

Table 7-16. LTE Band 13 Frequency Stability Data



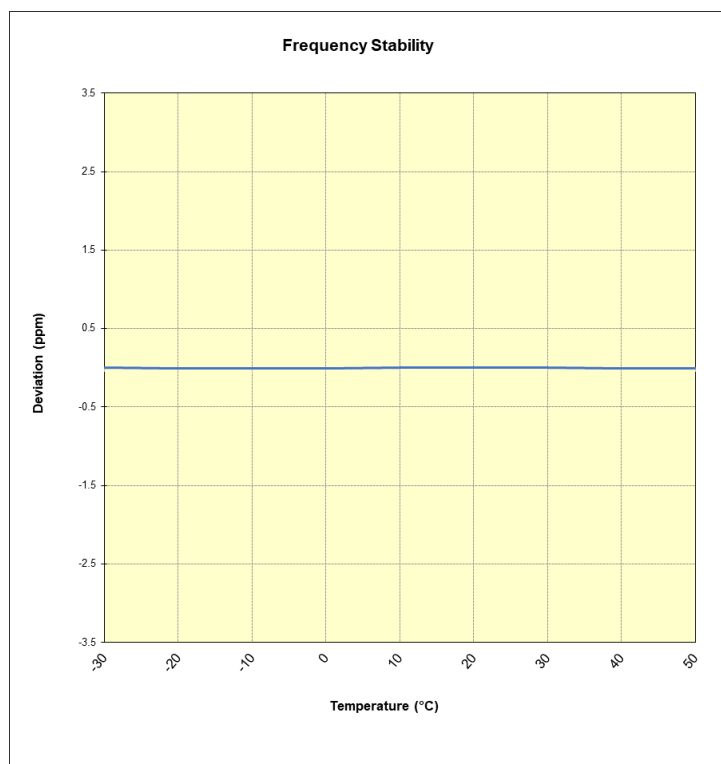
Plot 7-106. LTE Band 13 Frequency Stability Chart

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 83 of 85 |

V2.0 3/15/2021

| LTE Band 4 | | | | | |
|------------------|-------------|---------------------------|----------------|-----------------------|---------------|
| | | Operating Frequency (Hz): | | 1,732,500,000 | |
| | | Ref. Voltage (VDC): | | 4.25 | |
| | | Deviation Limit: | | ± 0.00025% or 2.5 ppm | |
| Voltage (%) | Power (VDC) | Temp (°C) | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 4.25 | - 30 | 1,732,500,007 | 11 | 0.0000006 |
| | | - 20 | 1,732,499,986 | -9 | -0.0000005 |
| | | - 10 | 1,732,499,987 | -9 | -0.0000005 |
| | | 0 | 1,732,499,991 | -4 | -0.0000003 |
| | | + 10 | 1,732,500,003 | 8 | 0.0000005 |
| | | + 20 (Ref) | 1,732,499,996 | 0 | 0.0000000 |
| | | + 30 | 1,732,500,003 | 7 | 0.0000004 |
| | | + 40 | 1,732,499,986 | -9 | -0.0000005 |
| | | + 50 | 1,732,499,983 | -12 | -0.0000007 |
| Battery Endpoint | 3.58 | + 20 | 1,732,499,995 | -1 | -0.0000001 |

Table 7-17. LTE Band 4 Frequency Stability Data



Plot 7-107. LTE Band 4 Frequency Stability Chart

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 84 of 85 |

V2.0 3/15/2021

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset** **FCC ID: A3LSMF721JPN** complies with all the requirements of Part 27 of the FCC rules.

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMF721JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2206140073-03.A3L | Test Dates: 06/17/2022 – 07/07/2022 | EUT Type: Portable Handset | Page 85 of 85 |

V2.0 3/15/2021

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element. If you have any questions about this or have an inquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.