



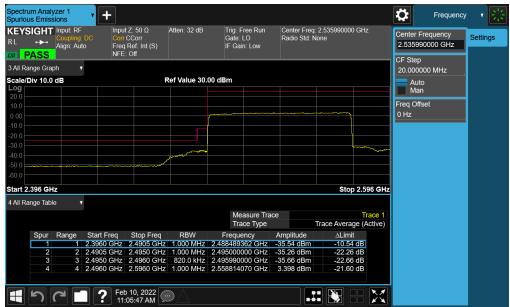
Plot 7-63. Lower ACP Plot (NR Band n41 - 90MHz CP-OFDM-QPSK - Full RB - Ant I)



Plot 7-64. Upper ACP Plot (NR Band n41 - 90MHz CP-OFDM-QPSK - Full RB - Ant I)

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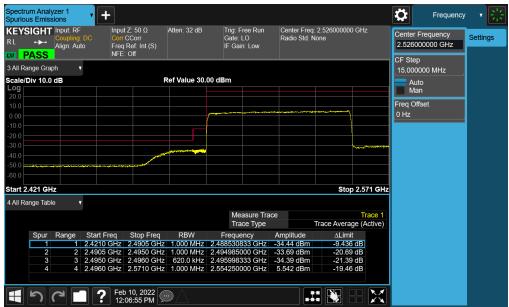
Plot 7-65. Lower ACP Plot (NR Band n41 - 80MHz CP-OFDM-QPSK - Full RB - Ant I)



Plot 7-66. Upper ACP Plot (NR Band n41 - 80MHz CP-OFDM-QPSK - Full RB - Ant I)

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Plot 7-67. Lower ACP Plot (NR Band n41 - 60MHz CP-OFDM-QPSK - Full RB - Ant I)



Plot 7-68. Upper ACP Plot (NR Band n41 - 60MHz CP-OFDM-QPSK - Full RB - Ant I)

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Plot 7-69. Lower ACP Plot (NR Band n41 - 50MHz CP-OFDM-QPSK - Full RB - Ant I)



Plot 7-70. Upper ACP Plot (NR Band n41 - 50MHz CP-OFDM-QPSK - Full RB - Ant I)

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Plot 7-71. Lower ACP Plot (NR Band n41 - 40MHz CP-OFDM-QPSK - Full RB - Ant I)



Plot 7-72. Upper ACP Plot (NR Band n41 - 40MHz CP-OFDM-QPSK - Full RB - Ant I)

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Plot 7-73. Lower ACP Plot (NR Band n41 - 20MHz CP-OFDM-QPSK - Full RB - Ant I)



Plot 7-74. Upper ACP Plot (NR Band n41 - 20MHz CP-OFDM-QPSK - Full RB - Ant I)

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NR Band n41 - SRS 2 - Ant B



Plot 7-75. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK - Full RB - Ant B)



Plot 7-76. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK - Full RB - Ant B)

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NR Band n41 - SRS 3 - Ant D



Plot 7-77. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK - Full RB - Ant D)



Plot 7-78. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK - Full RB - Ant D)

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NR Band n41 - SRS 4 - Ant E



Plot 7-79. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK - Full RB - Ant E)



Plot 7-80. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK - Full RB - Ant E)

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7.6 Radiated Power (EIRP)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz 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

KDB 971168 D01 v03r01 - Section 5.2.1

ANSI/TIA-603-E-2016 - Section 2.2.17

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 ≥ 3 x RBW
- 4. Span = 1.5 times the OBW
- 5. No. of sweep points > 2 x 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

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Test Setup

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

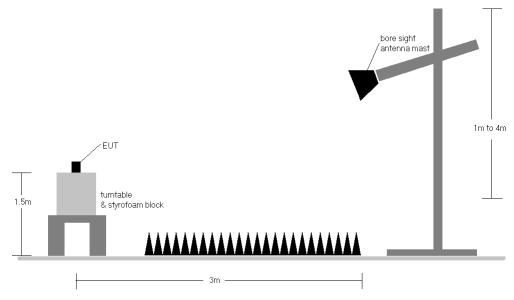


Figure 7-5. Radiated Test Setup >1GHz

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.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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######################################	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]
### 172 PPSK 2940		π/2 BPSK	2546.0		239	26	9.38	1 / 136		20.97	0.125	33.01	-12.04
### CPSK 20400 H 239 30 9.89 11/68 12:11 22:00 0.195 33:01 ### CPSK 20410 H 239 20 8.39 11/68 11:19 21:08 0.195 33:01 ### CPSK 20410 H 239 20 8.39 11/68 11:19 21:00 0.126 33:01 ### CPSK 20450 H 239 30 9.91 11/12 12:47 22:38 0.168 33:01 ### CPSK 20450 H 239 30 9.91 11/12 12:47 22:38 0.173 33:01 ### CPSK 20450 H 239 30 9.91 11/12 12:47 22:38 0.173 33:01 ### CPSK 20450 H 239 30 9.91 11/12 12:00 21:79 0.156 33:01 ### CPSK 20450 H 239 30 9.91 11/12 10:09 20:70 0.156 33:01 ### CPSK 20530 H 239 30 9.91 11/12 10:09 20:70 0.156 33:01 ### CPSK 20530 H 239 30 9.91 11/12 10:09 20:70 0.158 33:01 ### CPSK 20530 H 239 26 9.40 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 20 9.40 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 20 9.40 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 20 9.40 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 30 9.93 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 30 9.93 11/162 12:20 22:44 0.177 33:01 ### CPSK 20500 H 239 30 9.93 11/162 12:20 22:44 0.177 33:01 ### CPSK 20500 H 239 30 9.93 11/162 12:20 22:44 0.177 33:01 ### CPSK 20500 H 239 30 9.93 11/162 12:20 22:40 0.175 33:01 ### TPS PSK 20500 H 239 30 9.93 11/162 12:20 22:40 0.175 33:01 ### TPS PSK 20500 H 239 30 9.93 11/162 12:20 22:40 0.175 33:01 ### TPS PSK 20500 H 239 30 9.85 11/40 12:20 22:50 0.100 33:01 ### TPS PSK 20500 H 239 30 9.85 11/40 12:20 22:50 0.100 33:01 ### TPS PSK 20500 H 239 30 9.85 11/40 12:20 22:50 0.100 33:01 ### TPS PSK 20500 H 239 30 9.85 11/40 11:30 22:27 0.100	N												-10.64
### CPSK 20400 H 239 30 9.89 11/68 12:11 22:00 0.195 33:01 ### CPSK 20410 H 239 20 8.39 11/68 11:19 21:08 0.195 33:01 ### CPSK 20410 H 239 20 8.39 11/68 11:19 21:00 0.126 33:01 ### CPSK 20450 H 239 30 9.91 11/12 12:47 22:38 0.168 33:01 ### CPSK 20450 H 239 30 9.91 11/12 12:47 22:38 0.173 33:01 ### CPSK 20450 H 239 30 9.91 11/12 12:47 22:38 0.173 33:01 ### CPSK 20450 H 239 30 9.91 11/12 12:00 21:79 0.156 33:01 ### CPSK 20450 H 239 30 9.91 11/12 10:09 20:70 0.156 33:01 ### CPSK 20530 H 239 30 9.91 11/12 10:09 20:70 0.156 33:01 ### CPSK 20530 H 239 30 9.91 11/12 10:09 20:70 0.158 33:01 ### CPSK 20530 H 239 26 9.40 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 20 9.40 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 20 9.40 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 20 9.40 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 30 9.93 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 30 9.93 11/162 12:20 22:44 0.177 33:01 ### CPSK 20500 H 239 30 9.93 11/162 12:20 22:44 0.177 33:01 ### CPSK 20500 H 239 30 9.93 11/162 12:20 22:44 0.177 33:01 ### CPSK 20500 H 239 30 9.93 11/162 12:20 22:40 0.175 33:01 ### TPS PSK 20500 H 239 30 9.93 11/162 12:20 22:40 0.175 33:01 ### TPS PSK 20500 H 239 30 9.93 11/162 12:20 22:40 0.175 33:01 ### TPS PSK 20500 H 239 30 9.85 11/40 12:20 22:50 0.100 33:01 ### TPS PSK 20500 H 239 30 9.85 11/40 12:20 22:50 0.100 33:01 ### TPS PSK 20500 H 239 30 9.85 11/40 12:20 22:50 0.100 33:01 ### TPS PSK 20500 H 239 30 9.85 11/40 11:30 22:27 0.100	Ę												-10.66
### CPSK 20400 H 239 30 9.89 11/68 12:11 22:00 0.195 33:01 ### CPSK 20410 H 239 20 8.39 11/68 11:19 21:08 0.195 33:01 ### CPSK 20410 H 239 20 8.39 11/68 11:19 21:00 0.126 33:01 ### CPSK 20450 H 239 30 9.91 11/12 12:47 22:38 0.168 33:01 ### CPSK 20450 H 239 30 9.91 11/12 12:47 22:38 0.173 33:01 ### CPSK 20450 H 239 30 9.91 11/12 12:47 22:38 0.173 33:01 ### CPSK 20450 H 239 30 9.91 11/12 12:00 21:79 0.156 33:01 ### CPSK 20450 H 239 30 9.91 11/12 10:09 20:70 0.156 33:01 ### CPSK 20530 H 239 30 9.91 11/12 10:09 20:70 0.156 33:01 ### CPSK 20530 H 239 30 9.91 11/12 10:09 20:70 0.158 33:01 ### CPSK 20530 H 239 26 9.40 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 20 9.40 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 20 9.40 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 20 9.40 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 30 9.93 11/162 12:20 22:48 0.177 33:01 ### CPSK 20530 H 239 30 9.93 11/162 12:20 22:44 0.177 33:01 ### CPSK 20500 H 239 30 9.93 11/162 12:20 22:44 0.177 33:01 ### CPSK 20500 H 239 30 9.93 11/162 12:20 22:44 0.177 33:01 ### CPSK 20500 H 239 30 9.93 11/162 12:20 22:40 0.175 33:01 ### TPS PSK 20500 H 239 30 9.93 11/162 12:20 22:40 0.175 33:01 ### TPS PSK 20500 H 239 30 9.93 11/162 12:20 22:40 0.175 33:01 ### TPS PSK 20500 H 239 30 9.85 11/40 12:20 22:50 0.100 33:01 ### TPS PSK 20500 H 239 30 9.85 11/40 12:20 22:50 0.100 33:01 ### TPS PSK 20500 H 239 30 9.85 11/40 12:20 22:50 0.100 33:01 ### TPS PSK 20500 H 239 30 9.85 11/40 11:30 22:27 0.100	0												-12.21
### 160-0MM 20400	19												-10.88
### PSK 2941 0 H 239 29 9.39 11/183 11/188 21/27 0.134 33.01 ### PSK 2945 0 H 239 30 9.91 11/122 12/47 22/26 0.168 33.01 ### PSK 2945 0 H 239 30 9.91 11/122 11/27 22/36 0.173 33.01 ### OPSK 2950 0 H 239 16 9.49 11/183 12/20 21/17 0.159 33.01 ### OPSK 2950 0 H 239 30 9.91 11/122 11/20 21/17 0.159 33.01 ### OPSK 2950 0 H 239 30 9.91 11/122 11/20 21/17 0.159 33.01 ### OPSK 2950 0 H 239 30 9.91 11/122 11/20 21/17 0.159 33.01 ### OPSK 2950 0 H 239 30 9.91 11/122 11/20 21/17 0.159 33.01 ### OPSK 2950 0 H 239 30 9.91 11/122 11/20 21/17 0.159 33.01 ### OPSK 2950 0 H 239 30 9.93 11/162 11/20 21/20 21/20 0.119 33.01 ### OPSK 2950 0 H 239 30 9.93 11/162 11/20 21/20 21/20 0.119 33.01 ### OPSK 2950 0 H 239 30 9.93 11/162 11/20 21/20 21/20 0.117 33.01 ### OPSK 2950 0 H 239 30 9.93 11/162 11/20 21/20 21/20 0.117 33.01 ### OPSK 2950 0 H 239 30 9.93 11/162 11/20 21/20 21/20 0.117 33.01 ### OPSK 2950 0 H 239 30 9.93 11/162 11/20 22/20 23/30 0.117 33.01 ### OPSK 2950 0 H 239 30 9.93 11/162 11/20 22/20 23/30 0.117 33.01 ### OPSK 2950 0 H 239 30 9.93 11/162 11/20 22/20 23/30 0.117 33.01 ### OPSK 2950 0 H 239 30 9.93 11/162 12/20 22/20 0.133 33.01 ### OPSK 2950 0 H 239 30 9.93 11/162 12/20 22/20 0.103 33.01 ### OPSK 2950 0 H 239 30 9.85 11/40 12/21 22/20 0.103 33.01 ### OPSK 2950 0 H 239 30 9.85 11/40 12/21 22/20 0.103 33.01 ### OPSK 2950 0 H 239 30 9.85 11/40 12/21 22/20 0.103 33.01 ### OPSK 2950 0 H 239 30 9.85 11/40 12/21 22/20 0.103 33.01 ### OPSK 2950 0 H 239 30 9.85 11/40 12/21 22/20 0.103 33.01													-11.01
### 178 BPSK 2939.0 H 239 18 9.49 1 1/183 1276 2228 0.173 3391 ### 178 BPSK 2945.0 H 239 26 9.39 1 1/122 11.62 21.00 0.178 3391 ### 178 BPSK 2945.0 H 239 26 9.39 1 1/122 11.62 21.00 0.151 3391 ### 178 BPSK 2945.0 H 239 30 9.91 1 1/122 12.00 21.79 0.151 3391 ### 178 BPSK 2945.0 H 239 30 9.91 1 1/122 12.00 21.79 0.151 3391 ### 178 BPSK 2945.0 H 239 30 9.91 1 1/122 12.00 21.79 0.151 3391 ### 178 BPSK 2959.0 H 239 30 9.91 1 1/122 10.79 2070 0.118 3391 ### 178 BPSK 2959.0 H 239 26 9.40 1 1/162 11.90 21.30 0.155 3391 ### 178 BPSK 2959.0 H 239 30 9.93 1 1/162 12.92 2241 0.174 3391 ### 178 BPSK 2959.0 H 239 30 9.93 1 1/162 12.92 2241 0.174 3391 ### 178 BPSK 2959.0 H 239 30 9.93 1 1/162 12.92 2241 0.177 3391 ### 178 BPSK 2959.0 H 239 30 9.93 1 1/162 12.92 2241 0.174 3391 ### 178 BPSK 2959.0 H 239 30 9.93 1 1/162 12.92 2241 0.173 3391 ### 178 BPSK 2959.0 H 239 30 9.93 1 1/162 12.96 22.24 0.173 3391 ### 178 BPSK 2959.0 H 239 30 9.93 1 1/162 12.96 22.24 0.173 3391 ### 178 BPSK 2959.0 H 239 30 9.93 1 1/162 12.96 22.24 0.173 3391 ### 178 BPSK 2959.0 H 239 30 9.93 1 1/162 12.96 22.24 0.173 3391 ### 178 BPSK 2959.0 H 239 30 9.93 1 1/162 12.96 22.24 0.173 3391 ### 178 BPSK 2959.0 H 239 30 9.93 1 1/162 12.96 22.24 0.173 3391 ### 178 BPSK 2959.0 H 239 30 9.85 1/160 11.171 12.96 22.24 0.173 3391 ### 178 BPSK 2959.0 H 239 30 9.85 1/160 11.171 12.96 0.172 12.32 0.173 3391 ### 178 BPSK 2959.0 H 239 30 9.85 1/160 11.171 12.96 0.172 12.33 0.172 ### 178 BPSK 2959.0 H 239 30 9.85 1/160 11.171 12.96 0													-11.93
### ### ### ### ### ### ### ### ### ##													-11.74
### 16-QAM 2645-0 H 239 30 9.91 1.1122 12.08 21.97 0.158 33.01 16-QAM 2645-0 H 239 30 9.91 1.1122 10.09 21.97 0.158 33.01 17.28	N												-10.76
### 16-QAM 2645-0 H 239 30 9.91 1.1122 12.08 21.97 0.158 33.01 16-QAM 2645-0 H 239 30 9.91 1.1122 10.09 21.97 0.158 33.01 17.28	Ë												-10.63
### 16-QAM 2645-0 H 239 30 9.91 1.1122 12.08 21.97 0.158 33.01 16-QAM 2645-0 H 239 30 9.91 1.1122 10.09 21.97 0.158 33.01 17.28	0												-12.01
### 16 CAM 2045 0 H 239 30 991 1/122 10.79 20.70 0.118 33.01 ### 172 BPSK 2539 0 H 239 28 9.40 1/1402 11.92 12.92 22.41 0.174 33.01 ### 172 BPSK 2590 0 H 239 18 9.49 1/1402 11.92 12.92 22.41 0.174 33.01 ### 172 BPSK 2590 0 H 239 28 9.40 1/1402 11.92 12.95 22.48 0.177 33.01 ### 172 BPSK 2590 0 H 239 28 9.40 1/1602 11.34 20.74 0.119 33.01 ### 172 BPSK 2590 0 H 239 30 9.93 1/1602 11.94 20.74 0.119 33.01 ### 172 BPSK 2590 0 H 239 30 9.93 1/1602 11.95 22.44 0.175 33.01 ### 172 BPSK 2590 0 H 239 30 9.93 1/1602 11.01 20.94 0.124 33.01 ### 172 BPSK 2590 0 H 239 30 9.93 1/1602 11.01 20.94 0.124 33.01 ### 172 BPSK 2590 0 H 239 30 9.85 1/40 12.97 22.82 0.191 33.01 ### 172 BPSK 2590 0 H 239 30 9.85 1/40 12.97 22.82 0.191 33.01 ### 173 BPSK 2590 0 H 239 30 9.85 1/40 12.97 22.82 0.191 33.01 ### 174 BPSK 2590 0 H 239 30 9.85 1/40 12.21 22.06 0.161 33.01 ### 175 BPSK 2590 0 H 239 30 9.85 1/40 12.21 22.06 0.161 33.01 ### 175 BPSK 2590 0 H 239 30 9.85 1/40 12.21 22.05 0.161 33.01 ### 175 BPSK 2590 0 H 239 30 9.85 1/40 12.21 22.05 0.161 33.01 ### 175 BPSK 2590 0 H 239 30 9.85 1/40 12.21 22.05 0.161 33.01 ### 175 BPSK 2590 0 H 239 30 9.85 1/40 12.21 22.05 0.161 33.01 ### 175 BPSK 2590 0 H 239 30 9.85 1/40 12.21 22.05 0.161 33.01 ### 175 BPSK 2590 0 H 239 30 9.85 1/40 12.21 22.05 0.161 33.01 ### 175 BPSK 2590 0 H 239 30 9.85 1/40 12.21 22.05 0.161 33.01 ### 175 BPSK 2590 0 H 239 30 9.85 1/40 12.21 22.05 0.161 33.01 ### 175 BPSK 2590 0 H 239 30 9.85 1/40 12.21 22.05 0.161 33.01 ### 176 BPSK 2590 0 H 239 30 9.85 1/40	6												-11.22
### 178 Park 2593 0													-11.04
### PBPSK												1	-12.31
### ### ### ### ### ### ### ### ### ##													-11.71 -10.60
QPSK 26500 H 239 30 9.93 1/162 12.51 22.44 0.175 33.01 16-QAM 26500 H 239 30 9.93 1/162 11.01 20.94 0.124 33.01 172 BPSK 2580 H 239 26 9.43 1/121 11.79 21.22 0.133 33.01 172 BPSK 26600 H 239 30 9.65 1/40 12.97 22.82 0.191 33.01 QPSK 25260 H 239 26 9.43 1/121 11.66 20.89 0.123 33.01 QPSK 25260 H 239 26 9.43 1/121 11.46 20.89 0.123 33.01 QPSK 25930 H 239 30 9.65 1/40 12.97 22.82 0.191 33.01 QPSK 25930 H 239 30 9.65 1/40 12.21 22.06 0.161 33.01 16-QAM 26800 H 239 30 9.65 1/40 10.54 20.39 0.109 33.01 172 BPSK 26500 H 239 30 9.85 1/40 10.54 20.39 0.109 33.01 172 BPSK 25930 H 239 18 9.49 1/66 13.28 22.77 0.189 33.01 172 BPSK 26500 H 239 30 9.84 1/99 12.04 21.49 0.141 33.01 173 BPSK 26500 H 239 30 9.84 1/99 12.85 22.69 0.186 33.01 174 BPSK 26500 H 239 30 9.84 1/99 12.85 22.69 0.186 33.01 QPSK 25930 H 239 30 9.84 1/99 12.81 22.45 0.176 33.01 QPSK 25930 H 239 30 9.84 1/99 12.81 22.45 0.176 33.01 16-QAM 26650 H 239 30 9.84 1/99 12.81 22.45 0.176 33.01 175 BPSK 25600 H 239 30 9.84 1/99 11.40 21.24 0.133 33.01 176 BPSK 25600 H 239 30 9.82 1/53 13.40 22.89 0.196 33.01 177 BPSK 25600 H 239 30 9.82 1/53 13.40 22.89 0.196 33.01 178 BPSK 25600 H 239 30 9.82 1/53 13.40 22.89 0.196 33.01 177 BPSK 25600 H 239 30 9.85 1/19 13.06 22.91 0.193 33.01 178 BPSK 25600 H 239 30 9.85 1/19 13.06 22.91 0.193 33.01 178 BPSK 25600 H 239 30 9.85 1/19 13.06 22.91 0.193 33.01 178 BPSK 25600 H 239 30 9.85 1/19 13.06 22.95 0.194 33.01 178 BPSK 25600 H 2	N												
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QPSK 26500 H 239 30 9.93 1/162 12.51 22.44 0.175 33.01 16-QAM 26500 H 239 30 9.93 1/162 11.01 20.94 0.124 33.01 172 BPSK 2580 H 239 26 9.43 1/121 11.79 21.22 0.133 33.01 172 BPSK 26600 H 239 30 9.65 1/40 12.97 22.82 0.191 33.01 QPSK 25260 H 239 26 9.43 1/121 11.66 20.89 0.123 33.01 QPSK 25260 H 239 26 9.43 1/121 11.46 20.89 0.123 33.01 QPSK 25930 H 239 30 9.65 1/40 12.97 22.82 0.191 33.01 QPSK 25930 H 239 30 9.65 1/40 12.21 22.06 0.161 33.01 16-QAM 26800 H 239 30 9.65 1/40 10.54 20.39 0.109 33.01 172 BPSK 26500 H 239 30 9.85 1/40 10.54 20.39 0.109 33.01 172 BPSK 25930 H 239 18 9.49 1/66 13.28 22.77 0.189 33.01 172 BPSK 26500 H 239 30 9.84 1/99 12.04 21.49 0.141 33.01 173 BPSK 26500 H 239 30 9.84 1/99 12.85 22.69 0.186 33.01 174 BPSK 26500 H 239 30 9.84 1/99 12.85 22.69 0.186 33.01 QPSK 25930 H 239 30 9.84 1/99 12.81 22.45 0.176 33.01 QPSK 25930 H 239 30 9.84 1/99 12.81 22.45 0.176 33.01 16-QAM 26650 H 239 30 9.84 1/99 12.81 22.45 0.176 33.01 175 BPSK 25600 H 239 30 9.84 1/99 11.40 21.24 0.133 33.01 176 BPSK 25600 H 239 30 9.82 1/53 13.40 22.89 0.196 33.01 177 BPSK 25600 H 239 30 9.82 1/53 13.40 22.89 0.196 33.01 178 BPSK 25600 H 239 30 9.82 1/53 13.40 22.89 0.196 33.01 177 BPSK 25600 H 239 30 9.85 1/19 13.06 22.91 0.193 33.01 178 BPSK 25600 H 239 30 9.85 1/19 13.06 22.91 0.193 33.01 178 BPSK 25600 H 239 30 9.85 1/19 13.06 22.91 0.193 33.01 178 BPSK 25600 H 239 30 9.85 1/19 13.06 22.95 0.194 33.01 178 BPSK 25600 H 2	0												-12.27
16-OAM	&												-10.57
### PROPRIES 2596 0 H 239 26 9.43 11/121 11.79 21.22 0.133 33.01	-												-12.07
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Care	Z												-10.40
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Care	0.0												-10.64
THE PERK 2593.0 H 239 30 9.85 1/40 10.54 20.39 0.109 33.01 - 10.2 PERK 2593.0 H 239 18 9.49 1/66 13.28 22.77 0.189 33.01 - 10.2 PERK 2593.0 H 239 18 9.49 1/66 13.28 22.77 0.189 33.01 - 10.2 PERK 2593.0 H 239 18 9.49 1/66 13.28 22.77 0.189 33.01 - 10.2 PERK 2593.0 H 239 18 9.49 1/66 12.9 22.41 0.174 33.01 - 10.2 PERK 2593.0 H 239 18 9.49 1/66 12.9 22.41 0.174 33.01 - 10.2 PERK 2593.0 H 239 30 9.84 1/99 11.50 20.95 0.124 33.01 - 10.2 PERK 2593.0 H 239 30 9.84 1/99 12.61 22.45 0.176 33.01 - 10.2 PERK 2593.0 H 239 30 9.84 1/99 12.61 22.45 0.176 33.01 - 10.2 PERK 2593.0 H 239 30 9.84 1/99 11.40 21.24 0.133 33.01 - 10.2 PERK 2593.0 H 239 30 9.84 1/99 11.40 21.24 0.133 33.01 - 10.2 PERK 2593.0 H 239 18 9.49 1/53 13.48 22.97 0.198 33.01 - 10.2 PERK 2593.0 H 239 30 9.82 106/0 12.30 22.12 0.163 33.01 - 10.2 PERK 2593.0 H 239 18 9.49 1/53 13.40 22.89 0.195 33.01 - 10.2 PERK 2593.0 H 239 18 9.49 1/53 13.40 22.89 0.195 33.01 - 10.2 PERK 2593.0 H 239 18 9.49 1/53 11.71 21.20 0.132 33.01 - 10.2 PERK 2593.0 H 239 18 9.49 1/53 11.71 21.20 0.132 33.01 - 10.2 PERK 2593.0 H 239 18 9.49 1/53 11.71 21.20 0.132 33.01 - 10.2 PERK 2593.0 H 239 18 9.49 1/53 11.71 21.20 0.132 33.01 - 10.2 PERK 2593.0 H 239 30 9.85 1/53 11.71 21.20 0.132 33.01 - 10.2 PERK 2593.0 H 239 30 9.85 1/53 11.71 21.20 0.132 33.01 - 10.2 PERK 2593.0 H 239 30 9.85 1/53 11.71 21.20 0.132 33.01 - 10.2 PERK 2593.0 H 239 30 9.85 1/19 13.06 22.91 0.196 33.01 - 10.2 PERK 2593.0 H 239 30 9.85 1/19 13.06 22.91 0.196 33.01 - 10.2 PERK 2593.0 H 239 30 9.85 1/19 13.06 22.91 0.196 33.01 - 10.2 PERK 2593.0 H 239 30 9.85 1/19 13.06 22.91 0.191 33.01 - 10.2 PERK 2593.0 H 239 30 9.85 1/19 13.06 22.91 0.196 33.01 - 10.2 PERK 2593.0 H 239 30 9.85 1/19 13.06 22.91 0.196 33.01 - 10.2 PERK 2593.0 H 239 30 9.85 1/19 13.06 22.91 0.196 33.01 - 10.2 PERK 2593.0 H 239 30 9.85 1/19 13.06 22.91 0.196 33.01 - 10.2 PERK 2593.0 H 239 30 9.85 1/19 10.72 2.0 57 0.114 33.01 - 10.2 PERK 2593.0 H 239 30 9.85 1/19 10.72 2.0 57 0.114 33.01 - 10.2 PERK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.165 33.01 -	9												-10.04
TIZ BPSK	-												-12.62
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PHOSE QPSK 2665.0 H 239 30 9.84 1/99 12.61 22.45 0.176 33.01 16-QAM 2665.0 H 239 30 9.84 1/99 11.40 21.24 0.133 33.01 17/2 BPSK 2516.0 H 239 26 9.48 106/0 11.39 20.87 0.122 33.01 17/2 BPSK 2593.0 H 239 18 9.49 1/53 13.48 22.97 0.198 33.01 17/2 BPSK 2593.0 H 239 26 9.48 1/26 11.66 21.14 0.130 33.01 17/2 BPSK 2593.0 H 239 18 9.49 1/53 13.40 22.89 0.195 33.01 16-QAM 2593.0 H 239 18 9.49 1/53 13.40 22.89 0.195 33.01 16-QAM 2593.0 H 239 18 9.49 1/53 12.82 22.64 0.184 33.01 16-QAM 2593.0 H 239 18 9.49 1/53 11.71 21.20 0.132 33.01 16-QAM 2593.0 H 239 18 9.49 1/53 11.71 21.20 0.132 33.01 17/2 BPSK 2511.0 H 239 26 9.50 1/58 11.95 21.45 0.140 33.01 17/2 BPSK 2593.0 H 239 18 9.49 1/19 13.36 22.85 0.193 33.01 17/2 BPSK 2593.0 H 239 18 9.49 1/19 13.36 22.85 0.193 33.01 17/2 BPSK 2593.0 H 239 18 9.49 1/19 13.06 22.91 0.196 33.01 17/2 BPSK 2593.0 H 239 30 9.85 1/19 13.06 22.91 0.196 33.01 16-QAM 2593.0 H 239 30 9.85 1/19 13.77 22.66 0.185 33.01 16-QAM 2593.0 H 239 30 9.85 1/19 13.77 22.66 0.185 33.01 16-QAM 2593.0 H 239 30 9.85 1/19 13.17 22.66 0.185 33.01 18-QAM 2575.0 H 239 30 9.85 1/19 10.72 20.57 0.114 33.01 18-QAM 2575.0 H 239 30 9.85 1/19 10.72 20.57 0.114 33.01 18-QAM 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 18-QAM 2575.0 H 239 30 9.85 1/19 10.72 20.57 0.114 33.01 18-QAM 2575.0 H 239 30 9.87 1/25 12.70 22.57 0.181 33.01 18-QAM 2575.0 H 239 30 9.87 1/25 12.70 22.57 0.181 33.01 18-QAM 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 18-QAM 2593.0 H 239 18 9.49 1/13 12.41 21.90 0.155 33.01 18-QAM 2593.0 H 239 18 9.49 1/13 12.41 21.90 0.155 33.01 18-QAM 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 18-QAM 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 18-QAM 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 18-QAM 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 18-QAM 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 18-QAM 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 18-QAM 2593.0 H 239 18 9.49 1/13	N												-10.32
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THE PSK 2516.0 H 239 30 9.84 1/99 11.40 21.24 0.133 33.01 - 11.40 11.40 11.24 0.133 33.01 - 11.40 11.40 11.24 0.133 33.01 - 11.40 11	/												-10.56
### PRINCE													-11.77
### Page 1	·						-						-12.14
## Page 1													-10.04
PSK 2670.0 H 239 30 9.82 1/53 12.82 22.64 0.184 33.01 - 16-QAM 2593.0 H 239 18 9.49 1/53 11.71 21.20 0.132 33.01 - π/2 BPSK 2511.0 H 239 26 9.50 1/58 11.95 21.45 0.140 33.01 - π/2 BPSK 2593.0 H 239 18 9.49 1/19 13.36 22.85 0.193 33.01 - QPSK 2675.0 H 239 26 9.50 1/58 11.99 21.49 0.141 33.01 - QPSK 2593.0 H 239 18 9.49 1/19 13.17 22.66 0.185 33.01 - QPSK 2593.0 H 239 30 9.85 1/19 13.17 22.66 0.185 33.01 - QPSK 2675.0 H 239 30 9.85 1/19 10.72 20.57 0.114 33.01 - 16-QAM 2675.0 H 239 30 9.85 1/19 10.72 20.57 0.114 33.01 - π/2 BPSK 2506.0 H 239 30 9.85 1/19 10.72 20.57 0.114 33.01 - π/2 BPSK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 - π/2 BPSK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 - π/2 BPSK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 - π/2 BPSK 2680.0 H 239 30 9.87 1/25 12.70 22.57 0.181 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 12.41 21.90 0.155 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 12.41 21.90 0.155 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 12.41 21.90 0.155 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 -	보												-10.89
PSK 2670.0 H 239 30 9.82 1/53 12.82 22.64 0.184 33.01 - 16-QAM 2593.0 H 239 18 9.49 1/53 11.71 21.20 0.132 33.01 - π/2 BPSK 2511.0 H 239 26 9.50 1/58 11.95 21.45 0.140 33.01 - π/2 BPSK 2593.0 H 239 18 9.49 1/19 13.36 22.85 0.193 33.01 - QPSK 2675.0 H 239 26 9.50 1/58 11.99 21.49 0.141 33.01 - QPSK 2593.0 H 239 18 9.49 1/19 13.17 22.66 0.185 33.01 - QPSK 2593.0 H 239 30 9.85 1/19 13.17 22.66 0.185 33.01 - QPSK 2675.0 H 239 30 9.85 1/19 10.72 20.57 0.114 33.01 - 16-QAM 2675.0 H 239 30 9.85 1/19 10.72 20.57 0.114 33.01 - π/2 BPSK 2506.0 H 239 30 9.85 1/19 10.72 20.57 0.114 33.01 - π/2 BPSK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 - π/2 BPSK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 - π/2 BPSK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 - π/2 BPSK 2680.0 H 239 30 9.87 1/25 12.70 22.57 0.181 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 12.41 21.90 0.155 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 12.41 21.90 0.155 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 12.41 21.90 0.155 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 -	₫												-11.87
PSK 2670.0 H 239 30 9.82 1/53 12.82 22.64 0.184 33.01 - 16-QAM 2593.0 H 239 18 9.49 1/53 11.71 21.20 0.132 33.01 - π/2 BPSK 2511.0 H 239 26 9.50 1/58 11.95 21.45 0.140 33.01 - π/2 BPSK 2593.0 H 239 18 9.49 1/19 13.36 22.85 0.193 33.01 - QPSK 2675.0 H 239 26 9.50 1/58 11.99 21.49 0.141 33.01 - QPSK 2593.0 H 239 18 9.49 1/19 13.17 22.66 0.185 33.01 - QPSK 2593.0 H 239 30 9.85 1/19 13.17 22.66 0.185 33.01 - QPSK 2675.0 H 239 30 9.85 1/19 10.72 20.57 0.114 33.01 - 16-QAM 2675.0 H 239 30 9.85 1/19 10.72 20.57 0.114 33.01 - π/2 BPSK 2506.0 H 239 30 9.85 1/19 10.72 20.57 0.114 33.01 - π/2 BPSK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 - π/2 BPSK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 - π/2 BPSK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 - π/2 BPSK 2680.0 H 239 30 9.87 1/25 12.70 22.57 0.181 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 12.41 21.90 0.155 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 12.41 21.90 0.155 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 12.41 21.90 0.155 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 -	40			Н	239	18	9.49				0.195		-10.12
Tight Tigh				Н	239	30	9.82				0.184	33.01	-10.37
Τ/2 BPSK 2511.0 H 239 26 9.50 1 / 58 11.95 21.45 0.140 33.01 - π/2 BPSK 2593.0 H 239 18 9.49 1 / 19 13.36 22.85 0.193 33.01 - π/2 BPSK 2675.0 H 239 30 9.85 1 / 19 13.06 22.91 0.196 33.01 - QPSK 2511.0 H 239 26 9.50 1 / 58 11.99 21.49 0.141 33.01 - QPSK 2593.0 H 239 18 9.49 1 / 19 13.17 22.66 0.185 33.01 - QPSK 2675.0 H 239 30 9.85 1 / 19 12.96 22.81 0.191 33.01 - π/2 BPSK 2506.0 H 239 30 9.85 1 / 19 10.72 20.57 0.114 33.01 - π/2 BPSK 2593.0													-11.81
T/2 BPSK 2675.0 H 239 30 9.85 1/19 13.06 22.91 0.196 33.01 - QPSK 2511.0 H 239 26 9.50 1/58 11.99 21.49 0.141 33.01 - QPSK 2593.0 H 239 18 9.49 1/19 13.17 22.66 0.185 33.01 - QPSK 2675.0 H 239 30 9.85 1/19 12.96 22.81 0.191 33.01 - 16-QAM 2675.0 H 239 30 9.85 1/19 10.72 20.57 0.114 33.01 - π/2 BPSK 2506.0 H 239 26 9.50 51/0 11.98 21.48 0.141 33.01 - π/2 BPSK 2593.0 H 239 30 9.87 1/25 12.70 22.57 0.185 33.01 - π/2 BPSK 2680.0 <t< td=""><td></td><td>π/2 BPSK</td><td></td><td>Н</td><td>239</td><td>26</td><td>9.50</td><td></td><td></td><td></td><td>0.140</td><td>33.01</td><td>-11.56</td></t<>		π/2 BPSK		Н	239	26	9.50				0.140	33.01	-11.56
PRINT				Н	239	18							-10.16
PRINT	귂	π/2 BPSK	2675.0	Н	239	30	9.85	1 / 19	13.06	22.91	0.196	33.01	-10.10
PRINT	Σ		2511.0	Н	239	26	9.50	1 / 58	11.99	21.49	0.141	33.01	-11.52
PRINT	30	QPSK	2593.0	Н	239	18	9.49	1 / 19	13.17	22.66	0.185	33.01	-10.35
Τ/2 BPSK 2506.0 H 239 26 9.50 51/0 11.98 21.48 0.141 33.01 - T/2 BPSK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 - T/2 BPSK 2680.0 H 239 30 9.87 1/25 12.70 22.57 0.181 33.01 - QPSK 2506.0 H 239 26 9.50 1/25 12.36 21.86 0.153 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 12.41 21.90 0.155 33.01 - QPSK 2680.0 H 239 30 9.87 1/25 12.81 22.68 0.185 33.01 - 16-QAM 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 - QPSK (CP-OFDM) 2593.0		QPSK	2675.0	Н	239	30	9.85	1 / 19	12.96	22.81	0.191	33.01	-10.20
Υ Tr/2 BPSK 2593.0 H 239 18 9.49 1/13 13.17 22.66 0.185 33.01 - Tr/2 BPSK 2680.0 H 239 30 9.87 1/25 12.70 22.57 0.181 33.01 - QPSK 2506.0 H 239 26 9.50 1/25 12.36 21.86 0.153 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 12.41 21.90 0.155 33.01 - QPSK 2680.0 H 239 30 9.87 1/25 12.81 22.68 0.185 33.01 - 16-QAM 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 - QPSK (CP-OFDM) 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 -		16-QAM	2675.0	Н	239	30	9.85	1 / 19	10.72	20.57	0.114	33.01	-12.44
Τ/2 BPSK 2680.0 H 239 30 9.87 1/25 12.70 22.57 0.181 33.01 - QPSK 2506.0 H 239 26 9.50 1/25 12.36 21.86 0.153 33.01 - QPSK 2593.0 H 239 18 9.49 1/13 12.41 21.90 0.155 33.01 - QPSK 2680.0 H 239 30 9.87 1/25 12.81 22.68 0.185 33.01 - 16-QAM 2593.0 H 239 18 9.49 1/13 10.89 20.38 0.109 33.01 - QPSK (CP-0FDM) 2593.0 H 239 18 9.38 1/136 11.18 20.56 0.114 33.01 -		π/2 BPSK	2506.0	Н	239	26	9.50	51 / 0	11.98	21.48	0.141	33.01	-11.53
QPSK 2680.0 H 239 30 9.87 1 / 25 12.81 22.68 0.185 33.01 - 16-QAM 2593.0 H 239 18 9.49 1 / 13 10.89 20.38 0.109 33.01 - QPSK (CP-0FDM) 2593.0 H 239 18 9.38 1/136 11.18 20.56 0.114 33.01 -		π/2 BPSK	2593.0	Н	239	18	9.49	1 / 13	13.17	22.66	0.185	33.01	-10.35
QPSK 2680.0 H 239 30 9.87 1 / 25 12.81 22.68 0.185 33.01 - 16-QAM 2593.0 H 239 18 9.49 1 / 13 10.89 20.38 0.109 33.01 - QPSK (CP-OFDM) 2593.0 H 239 18 9.38 1/136 11.18 20.56 0.114 33.01 -	20 MHz	π/2 BPSK	2680.0	Н	239	30	9.87	1 / 25	12.70	22.57	0.181	33.01	-10.44
QPSK 2680.0 H 239 30 9.87 1 / 25 12.81 22.68 0.185 33.01 - 16-QAM 2593.0 H 239 18 9.49 1 / 13 10.89 20.38 0.109 33.01 - QPSK (CP-OFDM) 2593.0 H 239 18 9.38 1/136 11.18 20.56 0.114 33.01 -		QPSK	2506.0	Н	239	26	9.50	1 / 25	12.36	21.86	0.153	33.01	-11.15
QPSK 2680.0 H 239 30 9.87 1 / 25 12.81 22.68 0.185 33.01 - 16-QAM 2593.0 H 239 18 9.49 1 / 13 10.89 20.38 0.109 33.01 - QPSK (CP-OFDM) 2593.0 H 239 18 9.38 1/136 11.18 20.56 0.114 33.01 -		QPSK	2593.0	Н	239	18	9.49	1 / 13	12.41	21.90	0.155	33.01	-11.11
QPSK (CP-OFDM) 2593.0 H 239 18 9.38 1/136 11.18 20.56 0.114 33.01 -		QPSK	2680.0	Н	239	30	9.87	1 / 25	12.81	22.68	0.185	33.01	-10.33
		16-QAM	2593.0	Н	239	18	9.49	1 / 13	10.89	20.38	0.109	33.01	-12.63
100 MHz QPSK (Opposite Pol.) 2593.0 V 100 284 9.46 1/68 10.72 20.18 0.104 33.01 -		QPSK (CP-OFDM)	2593.0	Н	239	18	9.38	1/136	11.18	20.56	0.114	33.01	-12.45
	100 MHz	QPSK (Opposite Pol.)	2593.0	V	100	284	9.46	1/68	10.72	20.18	0.104	33.01	-12.83
QPSK (WCP) 2593.0 H 239 18 9.38 1/136 12.32 21.70 0.148 33.01 - Table 7-6. EIRP Data (NR Band n41 – Ant I)		QPSK (WCP)	2593.0							21.70	0.148	33.01	-11.31

Table 7-6. EIRP Data (NR Band n41 – Ant I)

FCC ID: A3LSMS906E	PCTEST* Proud to be part of & element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
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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]
	π/2 BPSK	2546.0	Н	123	331	9.38	1 / 204	9.00	18.38	0.069	33.01	-14.63
	π/2 BPSK	2593.0	Н	121	326	9.49	1 / 136	10.25	19.74	0.094	33.01	-13.27
MHZ	π/2 BPSK	2640.0	Н	116	317	9.89	1 / 68	8.88	18.77	0.075	33.01	-14.24
	QPSK	2546.0	Н	123	331	9.38	1 / 204	9.36	18.74	0.075	33.01	-14.27
100	QPSK	2593.0	Н	121	326	9.49	1 / 136	11.07	20.56	0.114	33.01	-12.45
	QPSK	2640.0	Н	116	317	9.89	1 / 68	9.34	19.23	0.084	33.01	-13.78
	16-QAM	2640.0	Н	116	317	9.89	1 / 68	7.99	17.88	0.061	33.01	-15.13
	QPSK (CP-OFDM)	2593.0	Н	121	326	9.49	1/136	8.84	18.33	0.068	33.01	-14.68
100 MHz	QPSK (Opposite Pol.)	2593.0	V	301	252	9.46	1/136	10.51	19.97	0.099	33.01	-13.04
	QPSK (WCP)	2593.0	Н	114	312	9.49	1/204	-0.73	8.76	0.008	33.01	-24.25

Table 7-7. EIRP Data (NR Band n41 - Ant B)

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]
	π/2 BPSK	2546.0	V	137	11	9.40	1 / 136	5.11	14.51	0.028	33.01	-18.50
	π/2 BPSK	2593.0	٧	123	10	9.46	1 / 68	4.56	14.02	0.025	33.01	-18.99
MHz	π/2 BPSK	2640.0	V	152	13	9.50	1 / 68	4.42	13.92	0.025	33.01	-19.09
	QPSK	2546.0	V	137	11	9.40	1 / 136	5.14	14.54	0.028	33.01	-18.47
100	QPSK	2593.0	V	123	10	9.46	1 / 68	4.77	14.23	0.026	33.01	-18.78
	QPSK	2640.0	V	152	13	9.50	1 / 68	4.51	14.01	0.025	33.01	-19.00
	16-QAM	2640.0	V	152	13	9.50	1 / 68	4.05	13.55	0.023	33.01	-19.46
	QPSK (CP-OFDM)	2546.0	V	137	11	9.40	1/68	4.07	13.47	0.022	33.01	-19.54
100 MHz	QPSK (Opposite Pol.)	2546.0	Н	139	42	9.38	1/68	4.95	14.33	0.027	33.01	-18.68
	QPSK (WCP)	2546.0	V	137	11	9.40	1/204	-1.87	7.53	0.006	33.01	-25.48

Table 7-8. EIRP Data (NR Band n41 - Ant D)

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]
	π/2 BPSK	2546.0	V	196	149	9.40	1 / 68	3.12	12.52	0.018	33.01	-20.49
	π/2 BPSK	2593.0	V	210	151	9.46	1 / 136	1.68	11.14	0.013	33.01	-21.87
MHz	π/2 BPSK	2640.0	V	188	151	9.50	1 / 68	0.65	10.15	0.010	33.01	-22.86
	QPSK	2546.0	٧	196	149	9.40	1 / 68	2.86	12.26	0.017	33.01	-20.75
100	QPSK	2593.0	V	210	151	9.46	1 / 136	1.85	11.31	0.014	33.01	-21.70
	QPSK	2640.0	V	188	151	9.50	1 / 68	0.86	10.36	0.011	33.01	-22.65
	16-QAM	2546.0	V	196	149	9.40	1 / 68	2.22	11.62	0.015	33.01	-21.39
	QPSK (CP-OFDM)	2546.0	V	196	149	9.40	1/68	1.04	10.44	0.011	33.01	-22.57
100 MHz	QPSK (Opposite Pol.)	2546.0	Н	102	233	9.38	1/68	2.30	11.68	0.015	33.01	-21.33
	QPSK (WCP)	2546.0	V	196	149	9.40	1/204	0.89	10.29	0.011	33.01	-22.72

Table 7-9. EIRP Data (NR Band n41 - Ant E)

FCC ID: A3LSMS906E	Proud to be part of ® element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
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Radiated Spurious Emissions Measurements 7.7

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole 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

KDB 971168 D01 v03r01 - Section 5.8

Test Settings

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

FCC ID: A3LSMS906E	Proud to be part of ® element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
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Test Setup

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

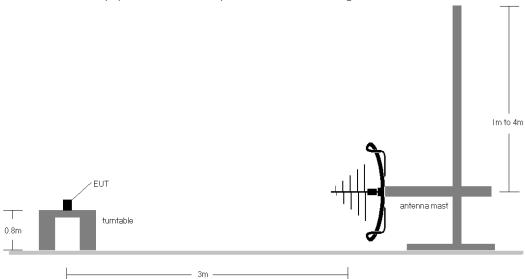


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

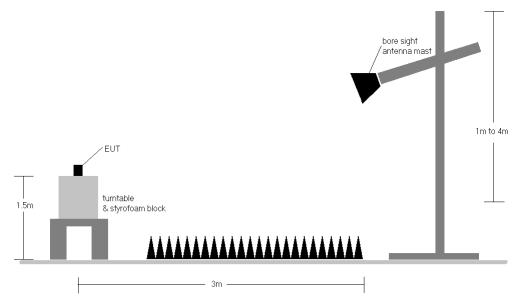


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

FCC ID: A3LSMS906E	Proud to be part of @ element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
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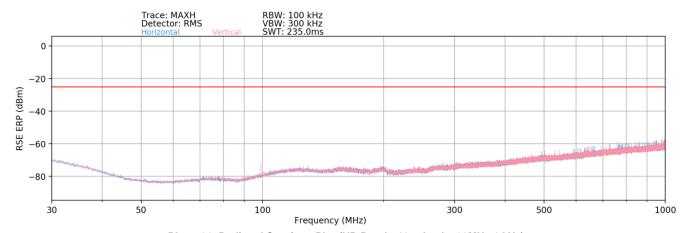
Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 a) E(dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
 - b) EIRP (dBm) = E(dB μ V/m) + 20logD 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.
- 7) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 8) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emission caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

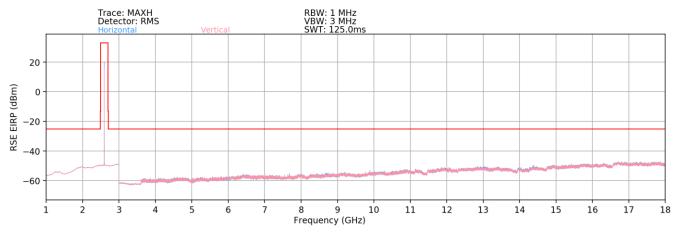
FCC ID: A3LSMS906E	Proud to be part of ® element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
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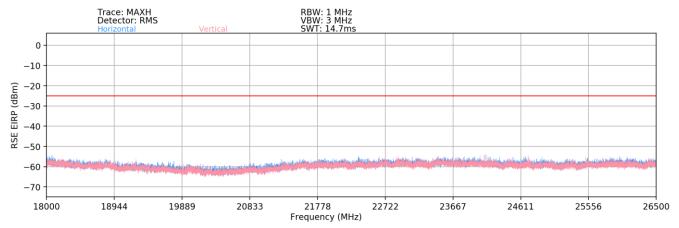
NR Band n41 - SRS 1 - Ant I



Plot 7-81. Radiated Spurious Plot (NR Band n41 - Ant I - 30MHz-1GHz)



Plot 7-82. Radiated Spurious Plot (NR Band n41 - Ant I - 1-18GHz)



Plot 7-83. Radiated Spurious Plot (NR Band n41 - Ant I - 18-26.5GHz)

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Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

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]
99.05	V	108	106	-96.41	17.01	27.60	-67.66	-25.00	-42.66
130.15	Н	-	-	-97.52	20.42	29.90	-65.36	-25.00	-40.36
493.25	Н	-	-	-97.81	25.70	34.89	-60.36	-25.00	-35.36
759.50	V	-	-	-97.57	29.38	38.81	-56.45	-25.00	-31.45

Table 7-10. Radiated Spurious Data (NR Band n41 – Mid Channel - Ant I – Below 1GHz)

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
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]
5092.00	Н	-	-	-75.42	4.48	36.06	-59.20	-25.00	-34.20
7638.00	Н	-	-	-76.17	7.81	38.64	-56.61	-25.00	-31.61
10184.00	Н	114	47	-75.21	11.10	42.89	-52.36	-25.00	-27.36
12730.00	Н	116	16	-75.80	14.20	45.40	-49.86	-25.00	-24.86
15276.00	Н	-	-	-77.27	15.92	45.65	-49.61	-25.00	-24.61
17822.00	Н	-	-	-78.11	18.75	47.64	-47.62	-25.00	-22.62
20368.00	Н	-	-	-57.84	2.10	51.26	-53.54	-25.00	-28.54

Table 7-11. Radiated Spurious Data (NR Band n41 - Low Channel - Ant I)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
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]
5186.00	Н	183	9	-74.42	4.91	37.49	-57.77	-25.00	-32.77
7779.00	Н	-	-	-76.33	7.30	37.97	-57.29	-25.00	-32.29
10372.00	Н	114	51	-75.80	11.04	42.24	-53.02	-25.00	-28.02
12965.00	Н	122	30	-76.09	14.49	45.40	-49.86	-25.00	-24.86
15558.00	Н	-	-	-78.20	15.73	44.53	-50.73	-25.00	-25.73
18151.00	Н	-	-	-58.79	1.18	49.39	-55.41	-25.00	-30.41
20744.00	Н	-	-	-58.88	2.73	50.85	-53.95	-25.00	-28.95

Table 7-12. Radiated Spurious Data (NR Band n41 - Mid Channel - Ant I)

FCC ID: A3LSMS906E	PCTEST: Proud to be part of & element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 69 of 84
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Bandwidth (MHz):	100
Frequency (MHz):	2640.0
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]
5280.00	Н	323	17	-72.86	4.66	38.80	-56.46	-25.00	-31.46
7920.00	Н	134	9	-74.95	8.30	40.35	-54.91	-25.00	-29.91
10560.00	Н	186	283	-76.20	11.56	42.36	-52.90	-25.00	-27.90
13200.00	Н	177	28	-76.99	14.06	44.07	-51.18	-25.00	-26.18
15840.00	Н	-	-	-78.19	17.07	45.88	-49.38	-25.00	-24.38
18480.00	Н	-	-	-59.01	1.13	49.12	-55.68	-25.00	-30.68
21120.00	Н	-	-	-58.34	2.78	51.43	-53.37	-25.00	-28.37

Table 7-13. Radiated Spurious Data (NR Band n41 - High Channel - Ant I)

Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

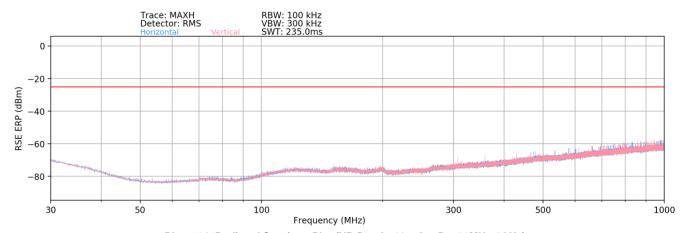
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.00	Н	-	-	-75.70	4.48	35.78	-59.48	-25.00	-34.48
7638.00	Н	-	-	-76.48	7.81	38.33	-56.92	-25.00	-31.92
10184.00	Н	144	351	-76.67	11.10	41.43	-53.82	-25.00	-28.82
12730.00	Н	147	75	-77.12	14.20	44.08	-51.18	-25.00	-26.18
15276.00	Н	-	-	-77.71	15.92	45.21	-50.05	-25.00	-25.05
17822.00	Н	-	-	-78.43	18.75	47.32	-47.94	-25.00	-22.94

Table 7-14. Radiated Spurious Data with WCP (NR Band n41 - Ant I)

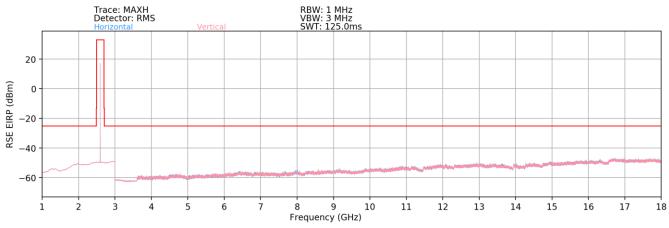
FCC ID: A3LSMS906E	PCTEST* Proud to be part of & element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 70 of 84
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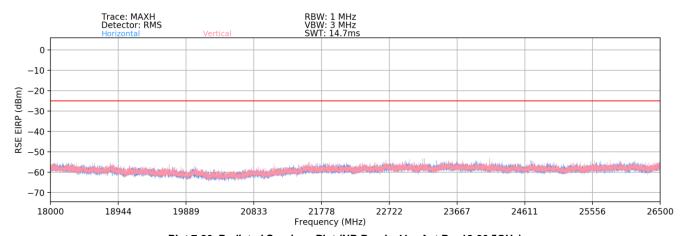
NR Band n41 - SRS 2 - Ant B



Plot 7-84. Radiated Spurious Plot (NR Band n41 - Ant B - 30MHz-1GHz)



Plot 7-85. Radiated Spurious Plot (NR Band n41 - Ant B - 1-18GHz)



Plot 7-86. Radiated Spurious Plot (NR Band n41 – Ant B – 18-26.5GHz)

FCC ID: A3LSMS906E	Proud to be part of ® element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 71 of 84
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Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

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]
307.40	V	-	-	-98.00	21.32	30.32	-64.94	-25.00	-39.94
358.85	Н	-	•	-98.27	22.38	31.11	-64.15	-25.00	-39.15
419.65	V	-	•	-98.08	23.92	32.84	-62.42	-25.00	-37.42

Table 7-15. Radiated Spurious Data (NR Band n41 - Mid Channel - Ant B - Below 1GHz)

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

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]
5092.00	V	112	39	-66.50	4.48	44.98	-50.28	-25.00	-25.28
7638.00	V	-	-	-76.45	7.81	38.36	-56.89	-25.00	-31.89
10184.00	V	202	347	-76.83	11.10	41.27	-53.98	-25.00	-28.98
12730.00	V	142	47	-77.13	14.20	44.07	-51.19	-25.00	-26.19
15276.00	V	-	-	-77.79	15.92	45.13	-50.13	-25.00	-25.13
17822.00	V	-	-	-78.35	18.75	47.40	-47.86	-25.00	-22.86
20368.00	V	-	-	-58.55	2.10	50.55	-54.25	-25.00	-29.25

Table 7-16. Radiated Spurious Data (NR Band n41 – Low Channel – Ant B)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

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]
5186.00	V	116	348	-70.88	4.91	41.03	-54.23	-25.00	-29.23
7779.00	V	-	-	-76.17	7.30	38.13	-57.13	-25.00	-32.13
10372.00	V	299	45	-76.87	11.04	41.17	-54.09	-25.00	-29.09
12965.00	V	384	42	-75.80	14.49	45.69	-49.57	-25.00	-24.57
15558.00	V	-	-	-78.17	15.73	44.56	-50.70	-25.00	-25.70
18151.00	V	-	-	-58.72	1.18	49.46	-55.34	-25.00	-30.34
20744.00	V	-	-	-58.46	2.73	51.27	-53.53	-25.00	-28.53

Table 7-17. Radiated Spurious Data (NR Band n41 - Mid Channel - Ant B)

FCC ID: A3LSMS906E	PCTEST* Proud to be part of & element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
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•	
Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

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]
5280.00	V	112	353	-72.68	4.66	38.98	-56.28	-25.00	-31.28
7920.00	V	234	4	-75.89	8.30	39.41	-55.85	-25.00	-30.85
10560.00	V	134	24	-76.98	11.56	41.58	-53.68	-25.00	-28.68
13200.00	V	379	42	-76.64	14.06	44.42	-50.83	-25.00	-25.83
15840.00	V	-	-	-78.24	17.07	45.83	-49.43	-25.00	-24.43
18480.00	V	-	-	-59.12	1.13	49.01	-55.79	-25.00	-30.79
21120.00	V	-	-	-58.70	2.78	51.08	-53.72	-25.00	-28.72

Table 7-18. Radiated Spurious Data (NR Band n41 – High Channel – Ant B)

Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

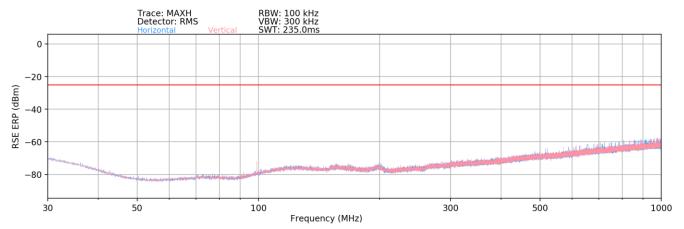
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	V	271	12	-73.21	4.91	38.70	-56.56	-25.00	-31.56
7779.00	V	-	-	-76.44	7.30	37.86	-57.40	-25.00	-32.40
10372.00	V	168	31	-79.61	11.04	38.43	-56.83	-25.00	-31.83
12965.00	V	288	186	-78.36	14.49	43.13	-52.13	-25.00	-27.13
15558.00	V	-	-	-78.61	15.73	44.12	-51.14	-25.00	-26.14

Table 7-19. Radiated Spurious Data with WCP (NR Band n41 - Ant B)

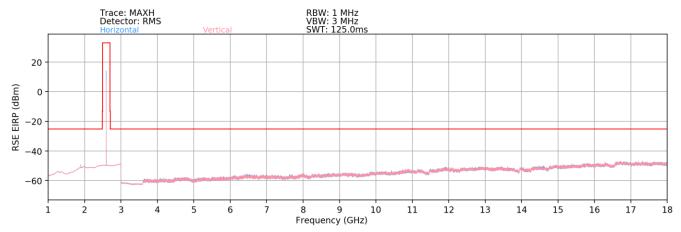
FCC ID: A3LSMS906E	PCTEST* Proud to be part of & element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 73 of 94
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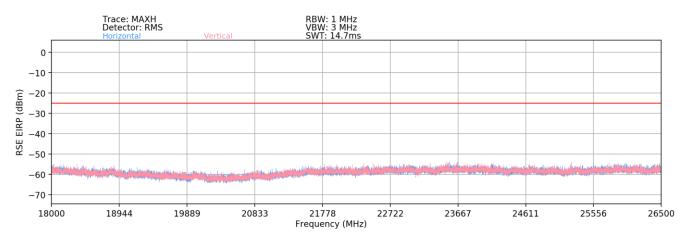
NR Band n41 - SRS 3 - Ant D



Plot 7-87. Radiated Spurious Plot (NR Band n41 - Ant D - 30MHz-1GHz)



Plot 7-88. Radiated Spurious Plot (NR Band n41 - Ant D - 1-18GHz)



Plot 7-89. Radiated Spurious Plot (NR Band n41 - Ant D - 18-26.5GHz)

FCC ID: A3LSMS906E	PCTEST* Proud to be part of & element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 74 of 84
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Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

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]
99.05	V	118.00	146.00	-96.49	17.01	27.52	-67.74	-25.00	-42.74
516.50	Н	-	•	-101.96	26.03	31.07	-64.19	-25.00	-39.19
521.45	V	-	-	-102.68	26.06	30.38	-64.87	-25.00	-39.87

Table 7-20. Radiated Spurious Data (NR Band n41 - Mid Channel - Ant D - Below 1GHz)

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

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]
5092.00	V	317	367	-75.46	4.48	36.02	-59.24	-25.00	-34.24
7638.00	V	-	-	-76.01	7.81	38.80	-56.45	-25.00	-31.45
10184.00	V	223	342	-73.28	11.10	44.82	-50.43	-25.00	-25.43
12730.00	V	236	350	-76.19	14.20	45.01	-50.25	-25.00	-25.25
15276.00	V	-	-	-77.41	15.92	45.51	-49.75	-25.00	-24.75
17822.00	V	-	-	-78.24	18.75	47.51	-47.75	-25.00	-22.75
20368.00	V	-	-	-58.83	2.10	50.27	-54.53	-25.00	-29.53

Table 7-21. Radiated Spurious Data (NR Band n41 – Low Channel – Ant D)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

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]
5186.00	V	-	-	-75.24	4.91	36.67	-58.59	-25.00	-33.59
7779.00	V	262	346	-74.12	7.30	40.18	-55.08	-25.00	-30.08
10372.00	V	209	340	-74.22	11.04	43.82	-51.44	-25.00	-26.44
12965.00	V	249	349	-74.97	14.49	46.52	-48.74	-25.00	-23.74
15558.00	V		-	-78.06	15.73	44.67	-50.59	-25.00	-25.59
18151.00	V	-	-	-58.71	1.18	49.47	-55.33	-25.00	-30.33
20744.00	V	-	-	-58.51	2.73	51.22	-53.58	-25.00	-28.58

Table 7-22. Radiated Spurious Data (NR Band n41 - Mid Channel - Ant D)

FCC ID: A3LSMS906E	PCTEST* Proud to be part of & element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
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'	
Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

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]
5280.00	V	-	-	-75.77	4.66	35.89	-59.37	-25.00	-34.37
7920.00	V	236	6	-74.24	8.30	41.06	-54.20	-25.00	-29.20
10560.00	V	182	337	-75.30	11.56	43.26	-52.00	-25.00	-27.00
13200.00	V	249	349	-76.22	14.06	44.84	-50.41	-25.00	-25.41
15840.00	V	-	-	-77.89	17.07	46.18	-49.08	-25.00	-24.08
18480.00	V	-	-	-59.65	1.13	48.48	-56.32	-25.00	-31.32
21120.00	V	-	-	-58.87	2.78	50.91	-53.89	-25.00	-28.89

Table 7-23. Radiated Spurious Data (NR Band n41 – High Channel – Ant D)

Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

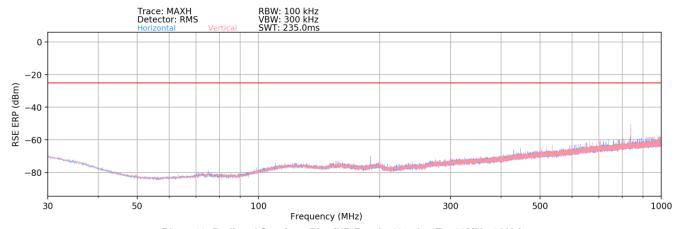
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	V	-	-	-75.84	4.91	36.07	-59.19	-25.00	-34.19
7779.00	V	118	38	-76.84	7.30	37.46	-57.80	-25.00	-32.80
10372.00	V	197	56	-77.03	11.04	41.01	-54.25	-25.00	-29.25
12965.00	V	211	210	-77.99	14.49	43.50	-51.76	-25.00	-26.76
15558.00	V	-	-	-78.31	15.73	44.42	-50.84	-25.00	-25.84

Table 7-24. Radiated Spurious Data with WCP (NR Band n41 - Ant D)

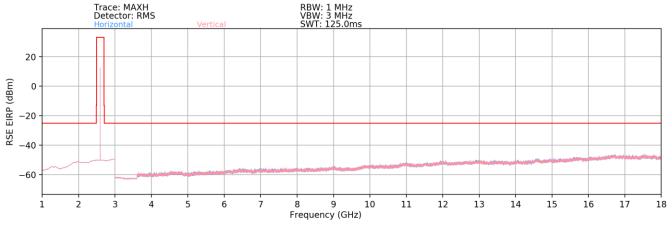
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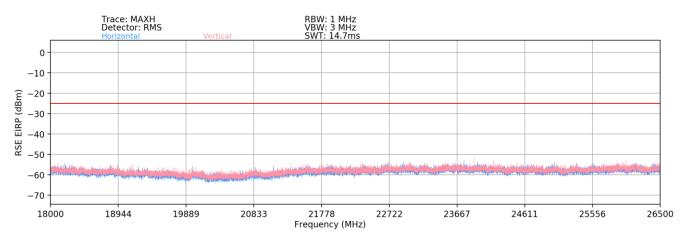
NR Band n41 - SRS 4 - Ant E



Plot 7-90. Radiated Spurious Plot (NR Band n41 – Ant E – 30MHz-1GHz)



Plot 7-91. Radiated Spurious Plot (NR Band n41 - Ant E - 1-18GHz)



Plot 7-92. Radiated Spurious Plot (NR Band n41 - Ant E - 18-26.5GHz)

FCC ID: A3LSMS906E	Proud to be part of @ element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
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Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

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]
187.00	V	-	-	-84.90	18.35	40.45	-54.81	-25.00	-29.81
419.00	V	-	-	-85.18	23.91	45.73	-49.53	-25.00	-24.53
837.00	V	-	-	-83.71	30.63	53.92	-41.34	-25.00	-16.34
901.00	V	-	-	-82.83	31.21	55.38	-39.88	-25.00	-14.88

Table 7-25. Radiated Spurious Data (NR Band n41 - Mid Channel - Ant E - Below 1GHz)

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

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]
5092.00	V	-	-	-77.20	4.48	34.28	-60.98	-25.00	-35.98
7638.00	V	-	-	-77.43	7.81	37.38	-57.87	-25.00	-32.87
10184.00	V	136	49	-76.25	11.10	41.85	-53.40	-25.00	-28.40
12730.00	V	131	44	-77.32	14.20	43.88	-51.38	-25.00	-26.38
15276.00	V	-	-	-79.34	15.92	43.58	-51.68	-25.00	-26.68
17822.00	V	-	-	-80.13	18.75	45.62	-49.64	-25.00	-24.64
20368.00	V	-	-	-59.03	2.10	50.07	-54.73	-25.00	-29.73

Table 7-26. Radiated Spurious Data (NR Band n41 – Low Channel – Ant E)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

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]
5186.00	V	-	-	-76.97	4.91	34.94	-60.32	-25.00	-35.32
7779.00	V	129	338	-76.21	7.30	38.09	-57.17	-25.00	-32.17
10372.00	V	128	49	-77.08	11.04	40.96	-54.30	-25.00	-29.30
12965.00	V	183	33	-77.27	14.49	44.22	-51.04	-25.00	-26.04
15558.00	V	-	-	-79.41	15.73	43.32	-51.94	-25.00	-26.94
18151.00	V	-	-	-59.78	1.18	48.39	-56.41	-25.00	-31.41
20744.00	V	-	-	-59.31	2.73	50.41	-54.39	-25.00	-29.39

Table 7-27. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant E)

FCC ID: A3LSMS906E	PCTEST* Proud to be part of & element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
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Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

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]
5280.00	V	-	-	-76.89	4.66	34.77	-60.49	-25.00	-35.49
7920.00	V	134	1	-77.01	8.30	38.29	-56.97	-25.00	-31.97
10560.00	V	136	52	-77.14	11.56	41.42	-53.84	-25.00	-28.84
13200.00	V	178	35	-76.89	14.06	44.17	-51.08	-25.00	-26.08
15840.00	V	-	-	-80.00	17.07	44.07	-51.19	-25.00	-26.19
18480.00	V	-	-	-59.78	1.13	48.35	-56.45	-25.00	-31.45
21120.00	V	-	-	-58.44	2.78	51.34	-53.46	-25.00	-28.46

Table 7-28. Radiated Spurious Data (NR Band n41 – High Channel – Ant E)

Case:	WCP
Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136
Mode:	Stand Alone
Anchor Band:	N/A

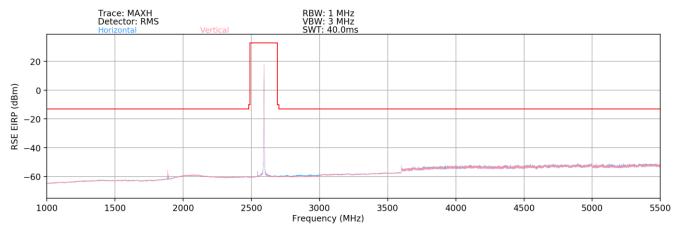
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	Н	-	-	-77.25	4.66	34.41	-60.85	-25.00	-35.85
7920.0	Н	231	46	-78.14	8.30	37.16	-58.10	-25.00	-33.10
10560.0	Н	222	59	-77.98	11.56	40.58	-54.68	-25.00	-29.68
13200.0	Н	-	-	-77.87	14.06	43.19	-52.06	-25.00	-27.06
15840.0	Н	-	-	-80.11	17.07	43.96	-51.30	-25.00	-26.30

Table 7-29. Radiated Spurious Data with WCP (NR Band n41 - Ant E)

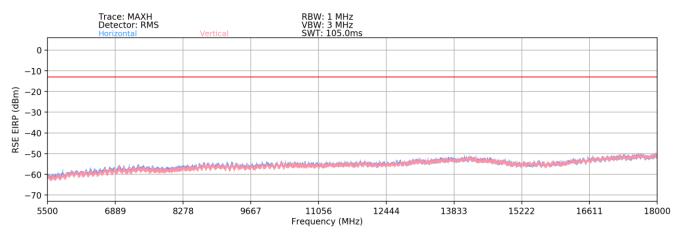
FCC ID: A3LSMS906E	PCTEST* Proud to be part of @element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	SAMSUNG	Approved by: Technical Manager
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EN-DC: NR Band n41 - Band 12



Plot 7-93. Radiated Spurious Plot (EN-DC: n41 - Band 12 - 1-5.5GHz)



Plot 7-94. Radiated Spurious Plot (EN-DC: n41 - Band 12 - 5.5-18GHz)

Case:	n41- B12
Bandwidth (MHz):	100 & 10
Frequency (MHz):	2593 & 707.5
RB / Offset:	1/136 & 1/25
Mode:	EN-DC
Anchor Band:	Band 12

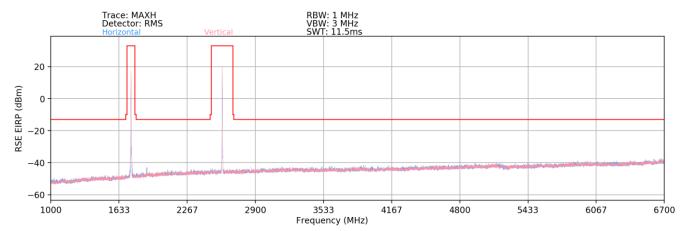
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1886.5	V	-	-	-74.54	1.11	33.57	-61.69	-13.00	-48.69
6364.0	V	-	-	-77.42	4.35	33.93	-61.33	-13.00	-48.33
8249.5	V	-	-	-79.20	7.98	35.78	-59.48	-13.00	-46.48
10135.0	V	-	-	-80.79	10.20	36.41	-58.85	-13.00	-45.85

Table 7-30. Radiated Spurious Data (EN-DC: n41 - Band 12)

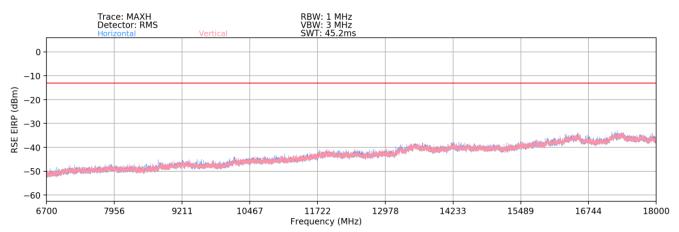
FCC ID: A3LSMS906E	PCTEST* Proud to be part of & element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
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EN-DC: NR Band n41 - Band 66/4



Plot 7-95. Radiated Spurious Plot (EN-DC: n41 - Band 66/4 - 1-6.7GHz)



Plot 7-96. Radiated Spurious Plot (EN-DC: n41 - Band 66/4 - 6.7-18GHz)

Case:	n41-B66
Bandwidth (MHz):	100 & 20
Frequency (MHz):	2593 & 1745
RB / Offset:	1/136 & 1/50
Mode:	EN-DC
Anchor Band:	Band 66

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]
1893.7	Н	-	-	-78.31	12.26	40.95	-54.31	-13.00	-41.31
3441.0	Н	-	1	-80.01	16.43	43.42	-51.83	-13.00	-38.83
4289.0	Н	-	1	-80.58	17.39	43.81	-51.45	-13.00	-38.45
5137.0	Н	-	-	-81.25	19.52	45.27	-49.99	-13.00	-36.99

Table 7-31. Radiated Spurious Data (EN-DC: n41 - Band 66/4)

FCC ID: A3LSMS906E	PCTEST* Proud to be part of & element	PART 27 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	Approved by: Technical Manager
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Frequency Stability / Temperature Variation 7.8

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental a.) 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.

Test Procedure Used

ANSI/TIA-603-E-2016

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

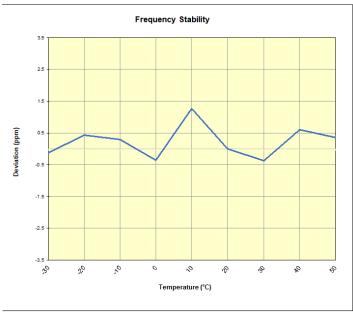
None

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NR Band	n41				
	Operating F	requency (Hz):	2,593,00		
	Ref. Voltage (VDC):		4.3	9	
'					•
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
		- 30	2,592,969,544	-340	-0.0000131
		- 20	2,592,970,994	1,111	0.0000428
		- 10	2,592,970,634	751	0.0000290
		0	2,592,968,976	-907	-0.0000350
100 %	4.39	+ 10	2,592,973,181	3,298	0.0001272
		+ 20 (Ref)	2,592,969,883	0	0.0000000
		+ 30	2,592,968,939	-944	-0.0000364
		+ 40	2,592,971,438	1,555	0.0000600
		+ 50	2,592,970,807	924	0.0000356
Battery Endpoint	3.80	+ 20	2,592,971,191	1,308	0.0000504

Table 7-32. NR Band n41 Frequency Stability Data



Plot 7-97. NR Band n41 Frequency Stability Chart

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CONCLUSION 8.0

The data collected relate only to the item(s) tested and show that the Samsung Portable Handset FCC ID: A3LSMS906E complies with all the requirements of Part 27 of the FCC rules.

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