

Appendix for Band 17

Appendix A: Average Power Output Data

Test Result

Channel Bandwidth: 5 MHz

| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 23.51 | PASS |
| | | 1 | 12 | 23.48 | PASS |
| | | 1 | 24 | 23.53 | PASS |
| | | 12 | 0 | 22.47 | PASS |
| | | 12 | 6 | 22.51 | PASS |
| | | 12 | 13 | 22.51 | PASS |
| | | 25 | 0 | 22.55 | PASS |
| | MCH | 1 | 0 | 23.30 | PASS |
| | | 1 | 12 | 23.23 | PASS |
| | | 1 | 24 | 23.22 | PASS |
| | | 12 | 0 | 22.42 | PASS |
| | | 12 | 6 | 22.55 | PASS |
| | | 12 | 13 | 22.39 | PASS |
| | | 25 | 0 | 22.46 | PASS |
| 16QAM | HCH | 1 | 0 | 23.45 | PASS |
| | | 1 | 12 | 23.37 | PASS |
| | | 1 | 24 | 22.97 | PASS |
| | | 12 | 0 | 22.49 | PASS |
| | | 12 | 6 | 22.38 | PASS |
| | | 12 | 13 | 22.37 | PASS |
| | | 25 | 0 | 22.38 | PASS |
| | LCH | 1 | 0 | 22.35 | PASS |
| | | 1 | 12 | 22.31 | PASS |
| | | 1 | 24 | 22.31 | PASS |
| | | 12 | 0 | 21.58 | PASS |
| | | 12 | 6 | 21.48 | PASS |
| | | 12 | 13 | 21.40 | PASS |
| | | 25 | 0 | 21.66 | PASS |
| | MCH | 1 | 0 | 22.89 | PASS |
| | | 1 | 12 | 22.74 | PASS |
| | | 1 | 24 | 22.79 | PASS |
| | | 12 | 0 | 21.56 | PASS |

| | | | | | |
|-----|--|----|----|-------|------|
| | | 12 | 6 | 21.43 | PASS |
| | | 12 | 13 | 21.53 | PASS |
| | | 25 | 0 | 21.65 | PASS |
| HCH | | 1 | 0 | 22.00 | PASS |
| | | 1 | 12 | 22.18 | PASS |
| | | 1 | 24 | 21.98 | PASS |
| | | 12 | 0 | 21.32 | PASS |
| | | 12 | 6 | 21.29 | PASS |
| | | 12 | 13 | 21.37 | PASS |
| | | 25 | 0 | 21.43 | PASS |
| | | | | | |

Channel Bandwidth: 10 MHz

| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 23.32 | PASS |
| | | 1 | 24 | 23.33 | PASS |
| | | 1 | 49 | 23.11 | PASS |
| | | 25 | 0 | 22.53 | PASS |
| | | 25 | 12 | 22.52 | PASS |
| | | 25 | 25 | 22.41 | PASS |
| | | 50 | 0 | 22.44 | PASS |
| | MCH | 1 | 0 | 23.55 | PASS |
| | | 1 | 24 | 23.56 | PASS |
| | | 1 | 49 | 23.64 | PASS |
| | | 25 | 0 | 22.52 | PASS |
| | | 25 | 12 | 22.42 | PASS |
| | | 25 | 25 | 22.61 | PASS |
| | | 50 | 0 | 22.46 | PASS |
| | HCH | 1 | 0 | 23.30 | PASS |
| | | 1 | 24 | 23.30 | PASS |
| | | 1 | 49 | 23.03 | PASS |
| | | 25 | 0 | 22.48 | PASS |
| | | 25 | 12 | 22.35 | PASS |
| | | 25 | 25 | 22.34 | PASS |
| | | 50 | 0 | 22.41 | PASS |
| 16QAM | LCH | 1 | 0 | 22.23 | PASS |
| | | 1 | 24 | 22.19 | PASS |
| | | 1 | 49 | 22.09 | PASS |
| | | 25 | 0 | 21.53 | PASS |
| | | 25 | 12 | 21.46 | PASS |
| | | 25 | 25 | 21.36 | PASS |
| | | 50 | 0 | 21.45 | PASS |
| | | | | | |

| | | | | | |
|--|-----|----|----|-------|------|
| | MCH | 1 | 0 | 23.00 | PASS |
| | | 1 | 24 | 23.00 | PASS |
| | | 1 | 49 | 22.75 | PASS |
| | | 25 | 0 | 21.55 | PASS |
| | | 25 | 12 | 21.51 | PASS |
| | | 25 | 25 | 21.54 | PASS |
| | | 50 | 0 | 21.49 | PASS |
| | HCH | 1 | 0 | 22.58 | PASS |
| | | 1 | 24 | 22.60 | PASS |
| | | 1 | 49 | 22.36 | PASS |
| | | 25 | 0 | 21.47 | PASS |
| | | 25 | 12 | 21.44 | PASS |
| | | 25 | 25 | 21.37 | PASS |
| | | 50 | 0 | 21.44 | PASS |

Appendix B: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 5 MHz

| Channel Bandwidth: 5 MHz | | | | | | |
|--------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 1.82 | <13 | PASS |
| | | 1 | 12 | 1.97 | <13 | PASS |
| | | 1 | 24 | 3.68 | <13 | PASS |
| | | 12 | 0 | 2.59 | <13 | PASS |
| | | 12 | 6 | 2.74 | <13 | PASS |
| | | 12 | 13 | 3.48 | <13 | PASS |
| | | 25 | 0 | 3.58 | <13 | PASS |
| | MCH | 1 | 0 | 2.94 | <13 | PASS |
| | | 1 | 12 | 4.68 | <13 | PASS |
| | | 1 | 24 | 3.36 | <13 | PASS |
| | | 12 | 0 | 4.49 | <13 | PASS |
| | | 12 | 6 | 5.09 | <13 | PASS |
| | | 12 | 13 | 5.18 | <13 | PASS |
| | | 25 | 0 | 4.89 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 4.69 | <13 | PASS |
| | | 1 | 12 | 1.85 | <13 | PASS |
| | | 1 | 24 | 2.17 | <13 | PASS |
| | | 12 | 0 | 4.08 | <13 | PASS |
| | | 12 | 6 | 3 | <13 | PASS |
| | | 12 | 13 | 2.05 | <13 | PASS |
| | | 25 | 0 | 3.46 | <13 | PASS |
| | MCH | 1 | 0 | 3.25 | <13 | PASS |
| | | 1 | 12 | 3.2 | <13 | PASS |
| | | 1 | 24 | 4.78 | <13 | PASS |
| | | 12 | 0 | 3.61 | <13 | PASS |
| | | 12 | 6 | 3.74 | <13 | PASS |
| | | 12 | 13 | 4.43 | <13 | PASS |
| | | 25 | 0 | 4.28 | <13 | PASS |

| | | | | | | |
|-----|----|----|----|------|-----|------|
| | | 12 | 13 | 6.14 | <13 | PASS |
| | | 25 | 0 | 5.68 | <13 | PASS |
| HCH | 1 | 0 | | 5.17 | <13 | PASS |
| | 1 | 12 | | 2.41 | <13 | PASS |
| | 1 | 24 | | 2.4 | <13 | PASS |
| | 12 | 0 | | 5.2 | <13 | PASS |
| | 12 | 6 | | 4.08 | <13 | PASS |
| | 12 | 13 | | 2.95 | <13 | PASS |
| | 25 | 0 | | 4.41 | <13 | PASS |
| | | | | | | |

Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz | | | | | | |
|---------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 1.86 | <13 | PASS |
| | | 1 | 24 | 3.94 | <13 | PASS |
| | | 1 | 49 | 1.91 | <13 | PASS |
| | | 25 | 0 | 3.65 | <13 | PASS |
| | | 25 | 12 | 4.53 | <13 | PASS |
| | | 25 | 25 | 4.71 | <13 | PASS |
| | | 50 | 0 | 4.27 | <13 | PASS |
| | MCH | 1 | 0 | 1.61 | <13 | PASS |
| | | 1 | 24 | 4.34 | <13 | PASS |
| | | 1 | 49 | 1.09 | <13 | PASS |
| | | 25 | 0 | 3.91 | <13 | PASS |
| | | 25 | 12 | 4.98 | <13 | PASS |
| | | 25 | 25 | 3.92 | <13 | PASS |
| | | 50 | 0 | 3.96 | <13 | PASS |
| 16QAM | HCH | 1 | 0 | 2.17 | <13 | PASS |
| | | 1 | 24 | 4.75 | <13 | PASS |
| | | 1 | 49 | 1.87 | <13 | PASS |
| | | 25 | 0 | 4.45 | <13 | PASS |
| | | 25 | 12 | 4.82 | <13 | PASS |
| | | 25 | 25 | 3.6 | <13 | PASS |
| | | 50 | 0 | 3.85 | <13 | PASS |
| | LCH | 1 | 0 | 2.23 | <13 | PASS |
| | | 1 | 24 | 4.26 | <13 | PASS |
| | | 1 | 49 | 2.16 | <13 | PASS |
| | | 25 | 0 | 4.38 | <13 | PASS |
| | | 25 | 12 | 5.5 | <13 | PASS |
| | | 25 | 25 | 5.74 | <13 | PASS |
| | | | | | | |

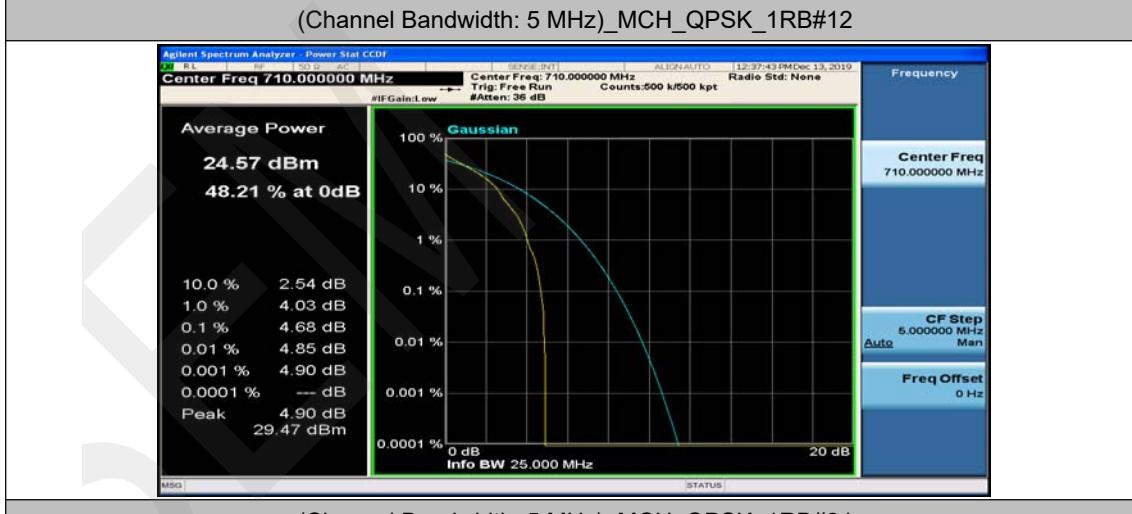
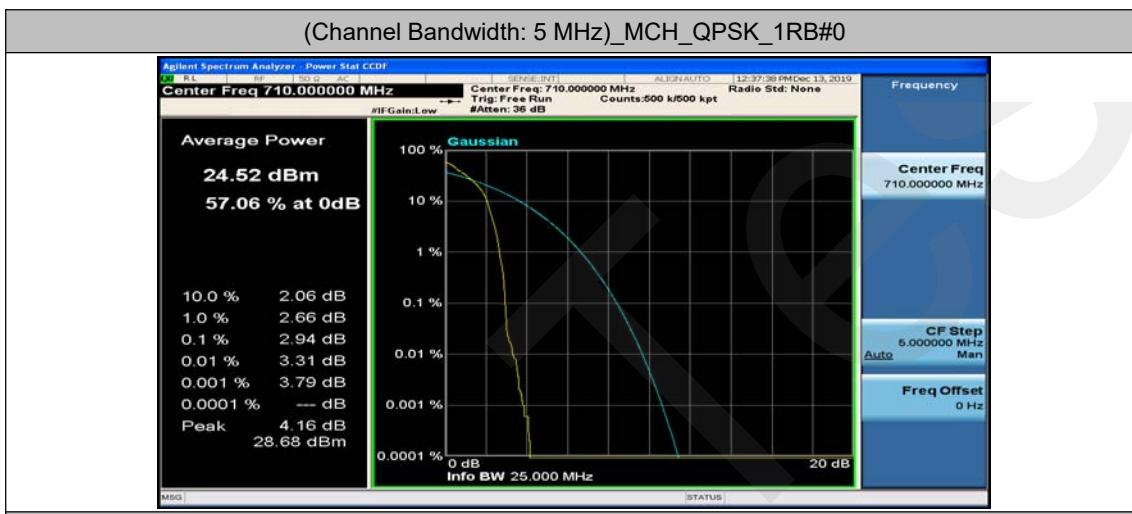
| | | | | | | |
|-----|----|----|------|------|------|------|
| | | 50 | 0 | 5.18 | <13 | PASS |
| MCH | 1 | 0 | 2.4 | <13 | PASS | |
| | 1 | 24 | 5.2 | <13 | PASS | |
| | 1 | 49 | 1.83 | <13 | PASS | |
| | 25 | 0 | 4.77 | <13 | PASS | |
| | 25 | 12 | 5.85 | <13 | PASS | |
| | 25 | 25 | 5.1 | <13 | PASS | |
| | 50 | 0 | 5.01 | <13 | PASS | |
| HCH | 1 | 0 | 2.96 | <13 | PASS | |
| | 1 | 24 | 5.56 | <13 | PASS | |
| | 1 | 49 | 2.16 | <13 | PASS | |
| | 25 | 0 | 5.37 | <13 | PASS | |
| | 25 | 12 | 5.81 | <13 | PASS | |
| | 25 | 25 | 4.62 | <13 | PASS | |
| | 50 | 0 | 4.92 | <13 | PASS | |

Test Graphs

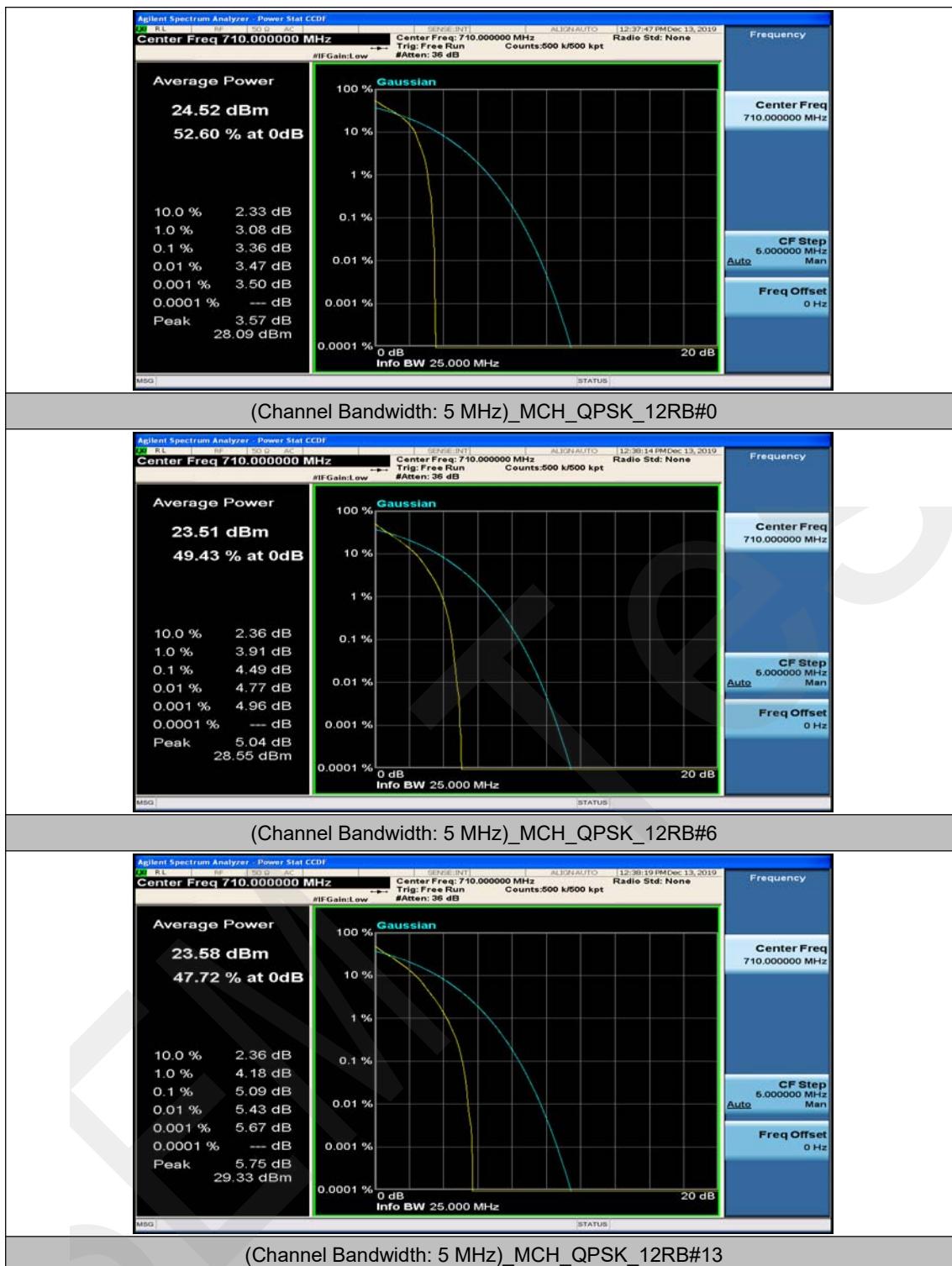
Channel Bandwidth: 5 MHz







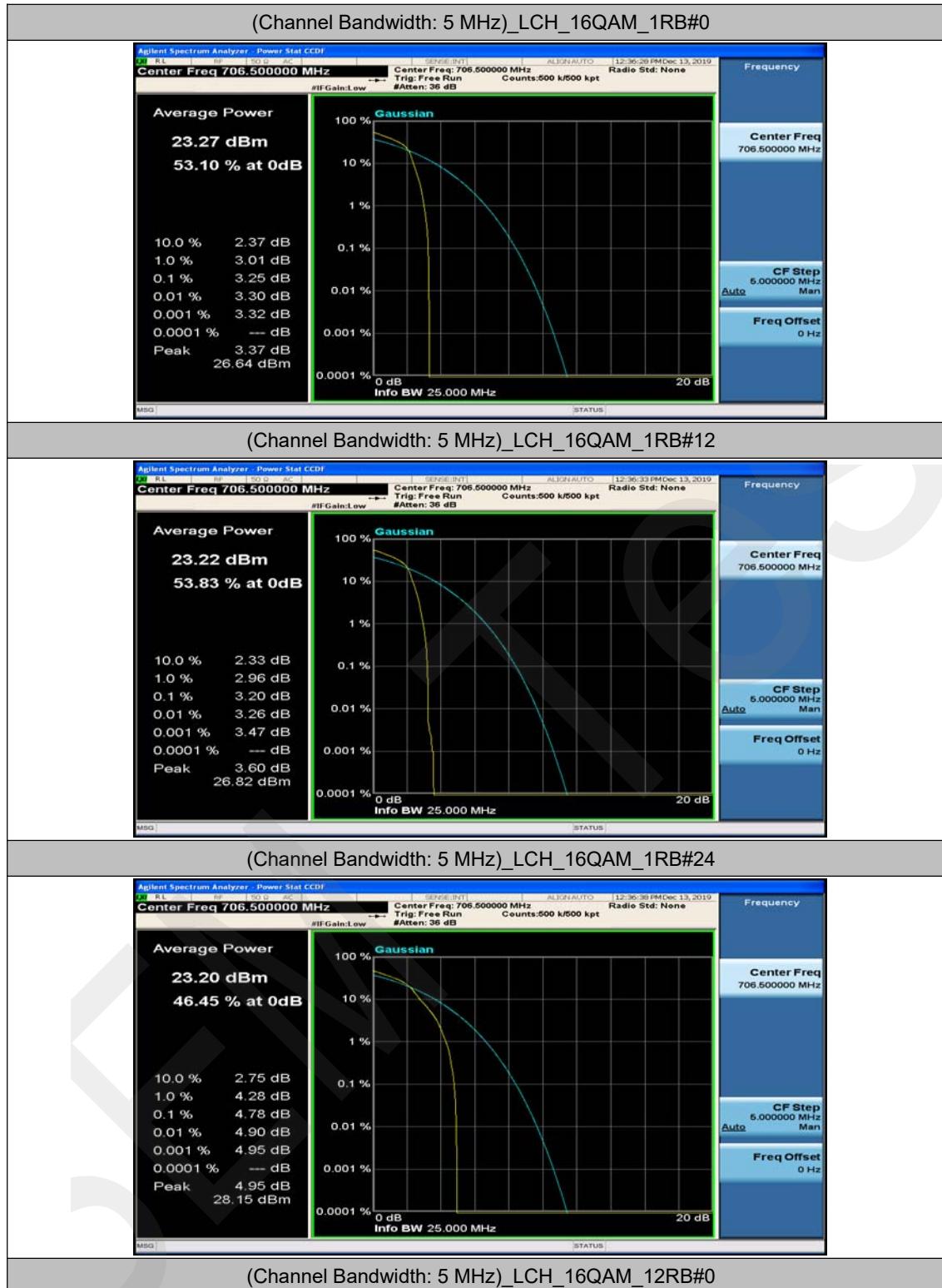
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

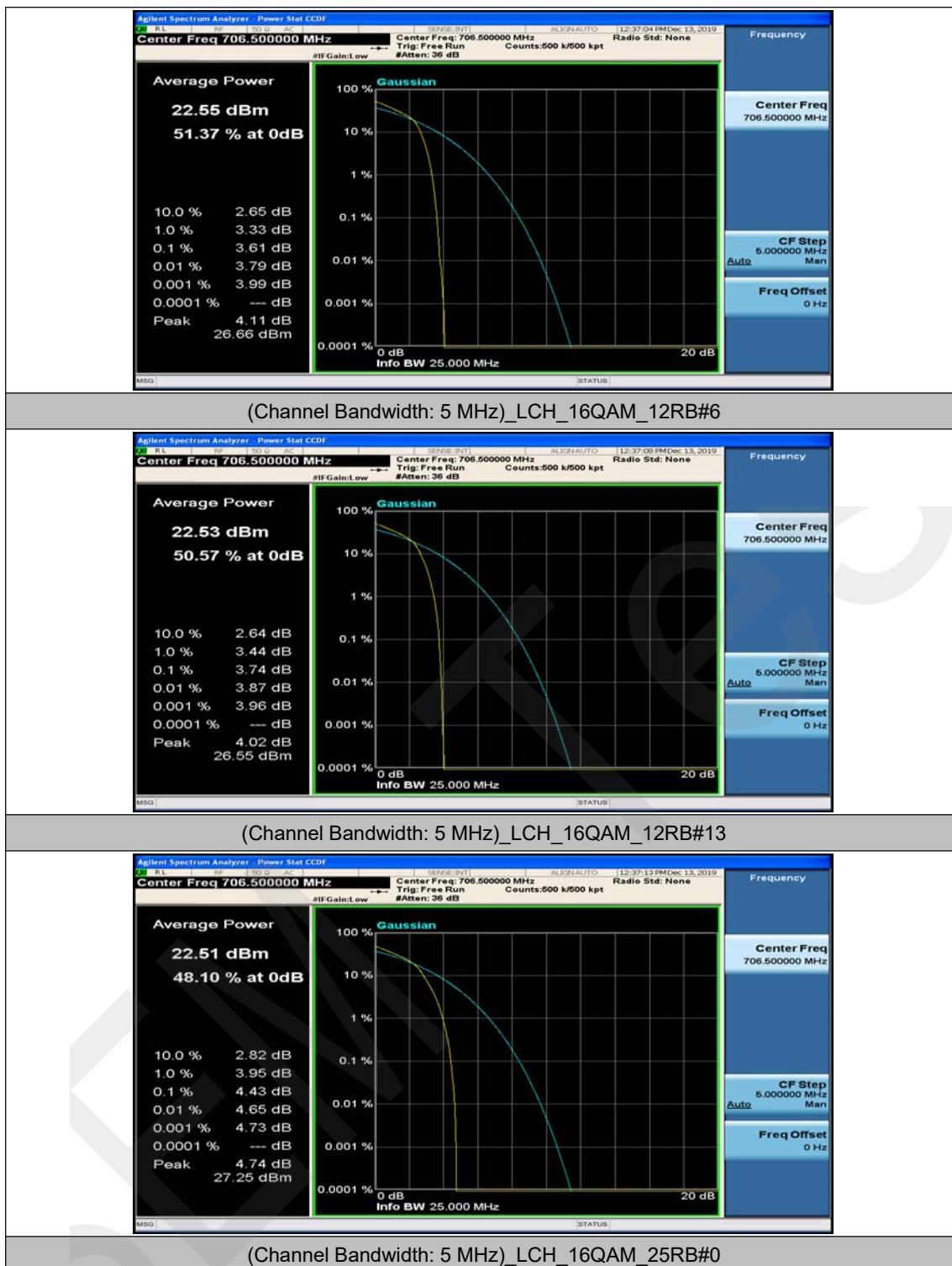


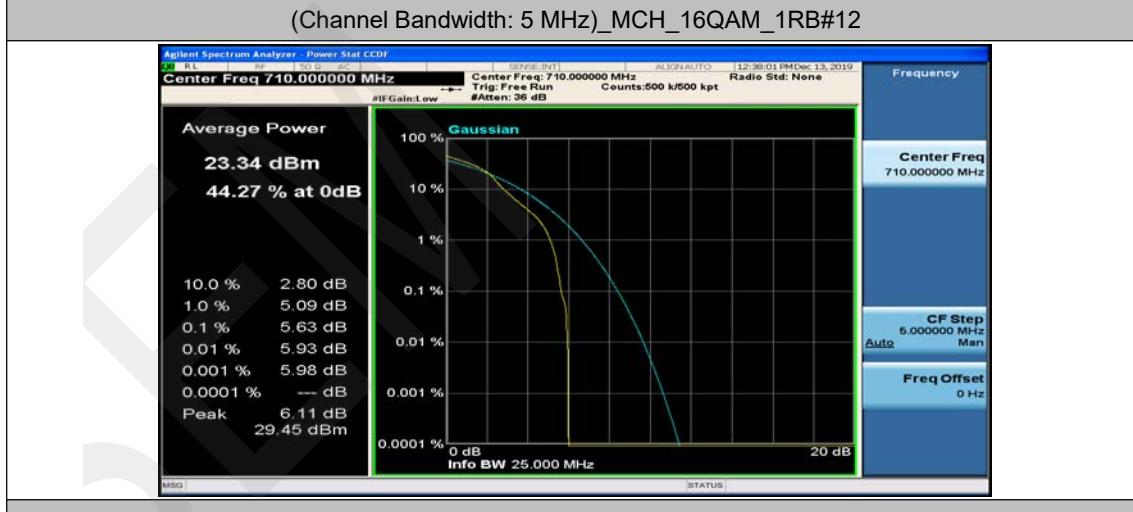
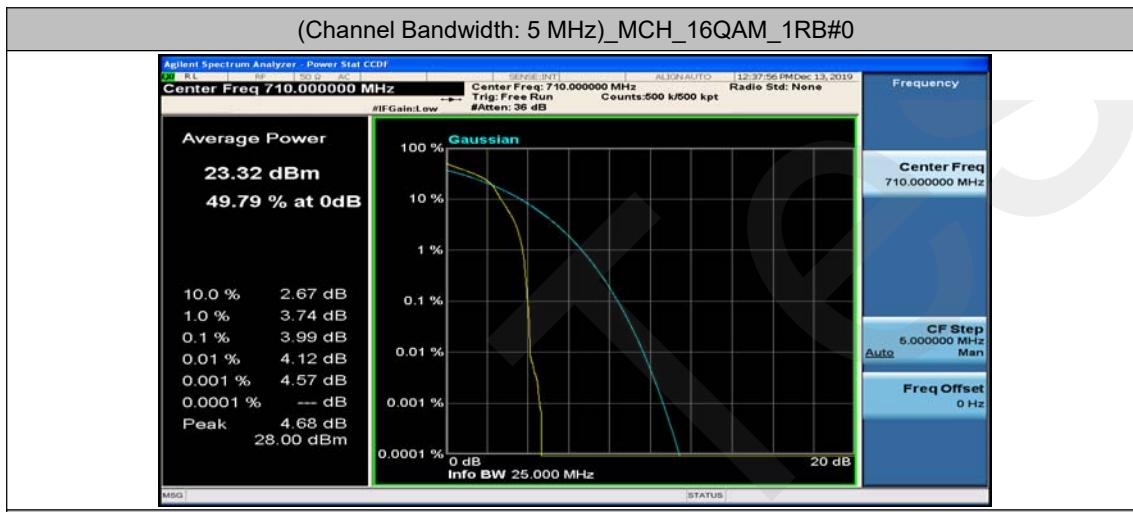




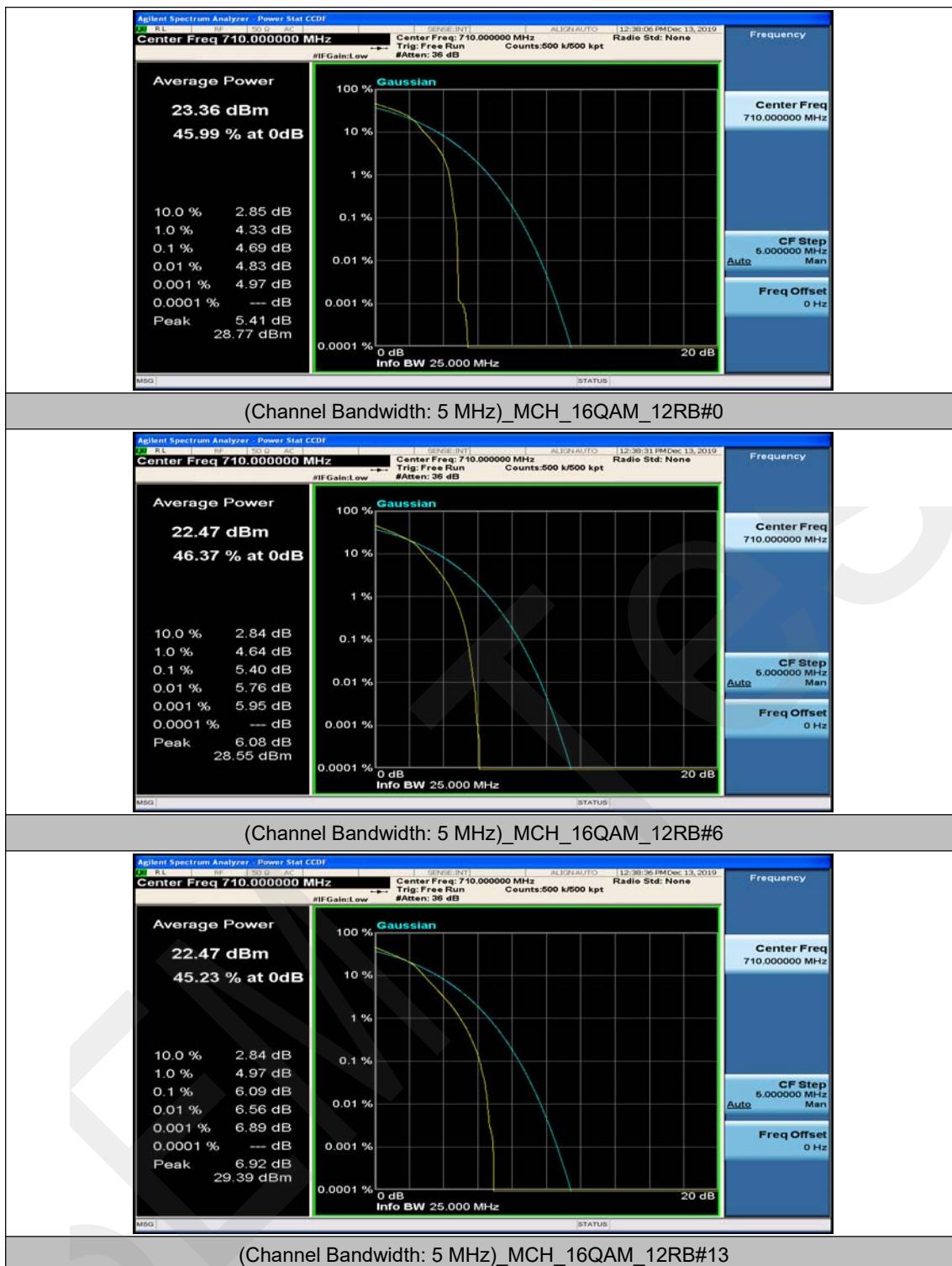


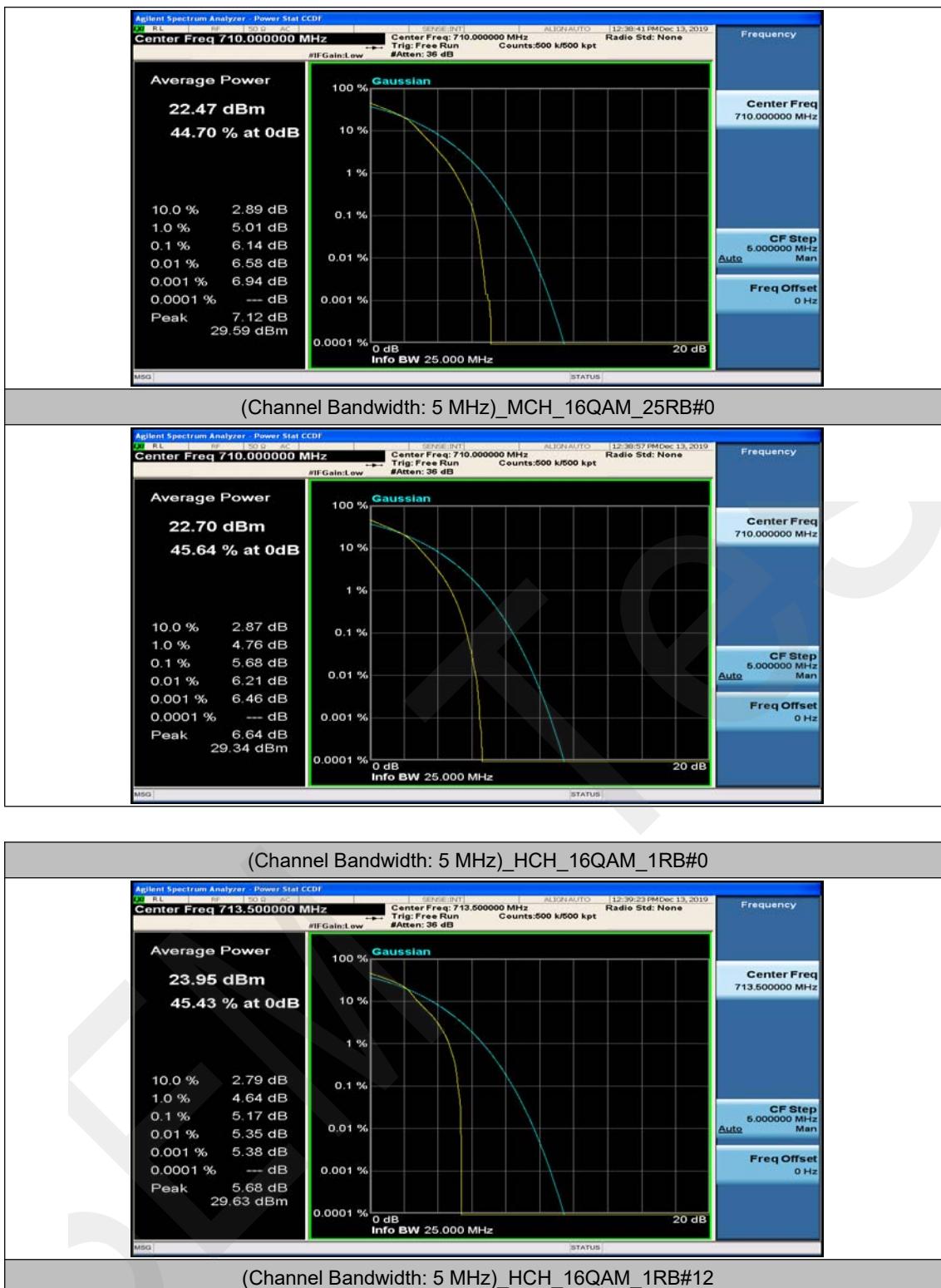


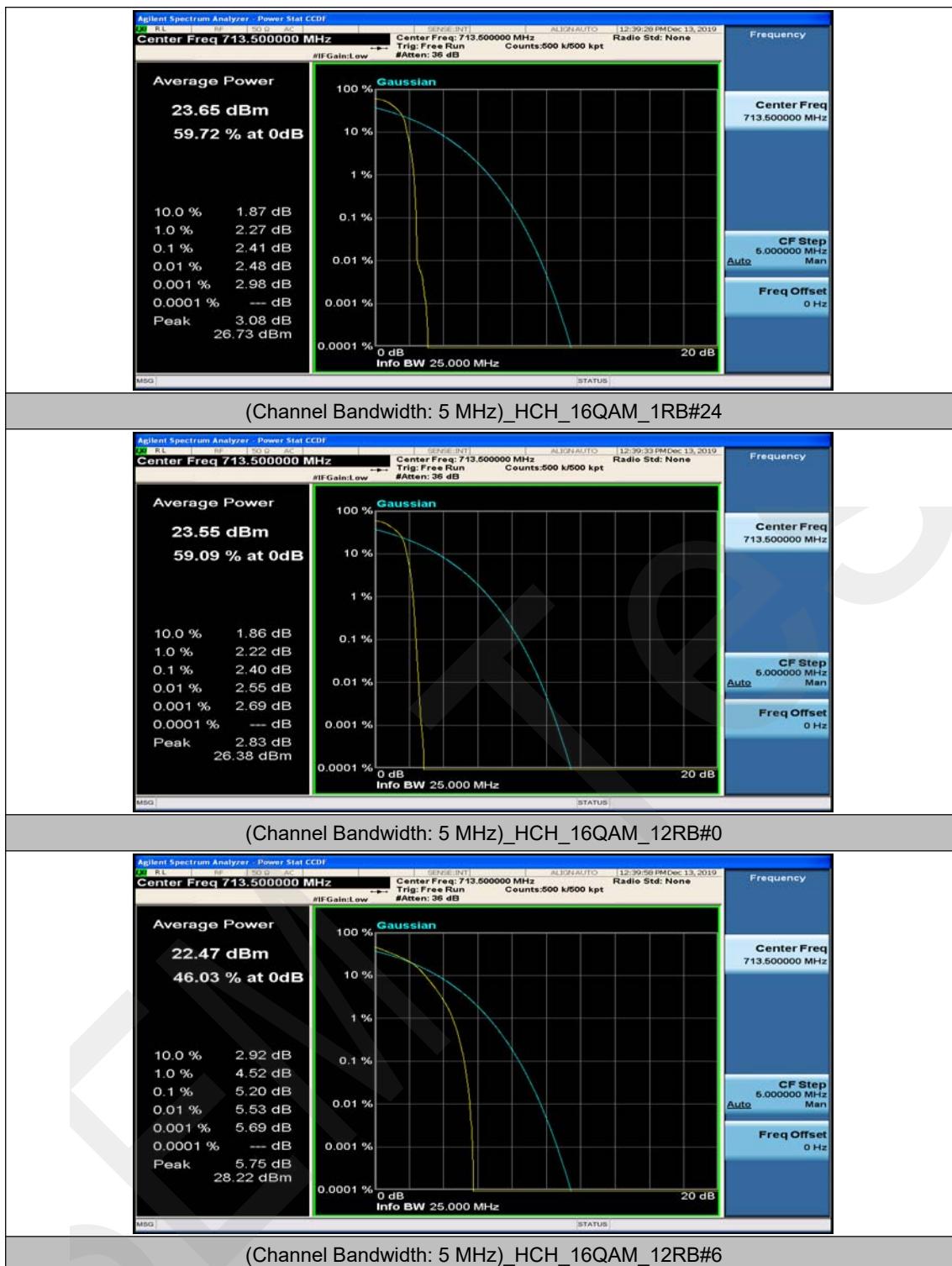


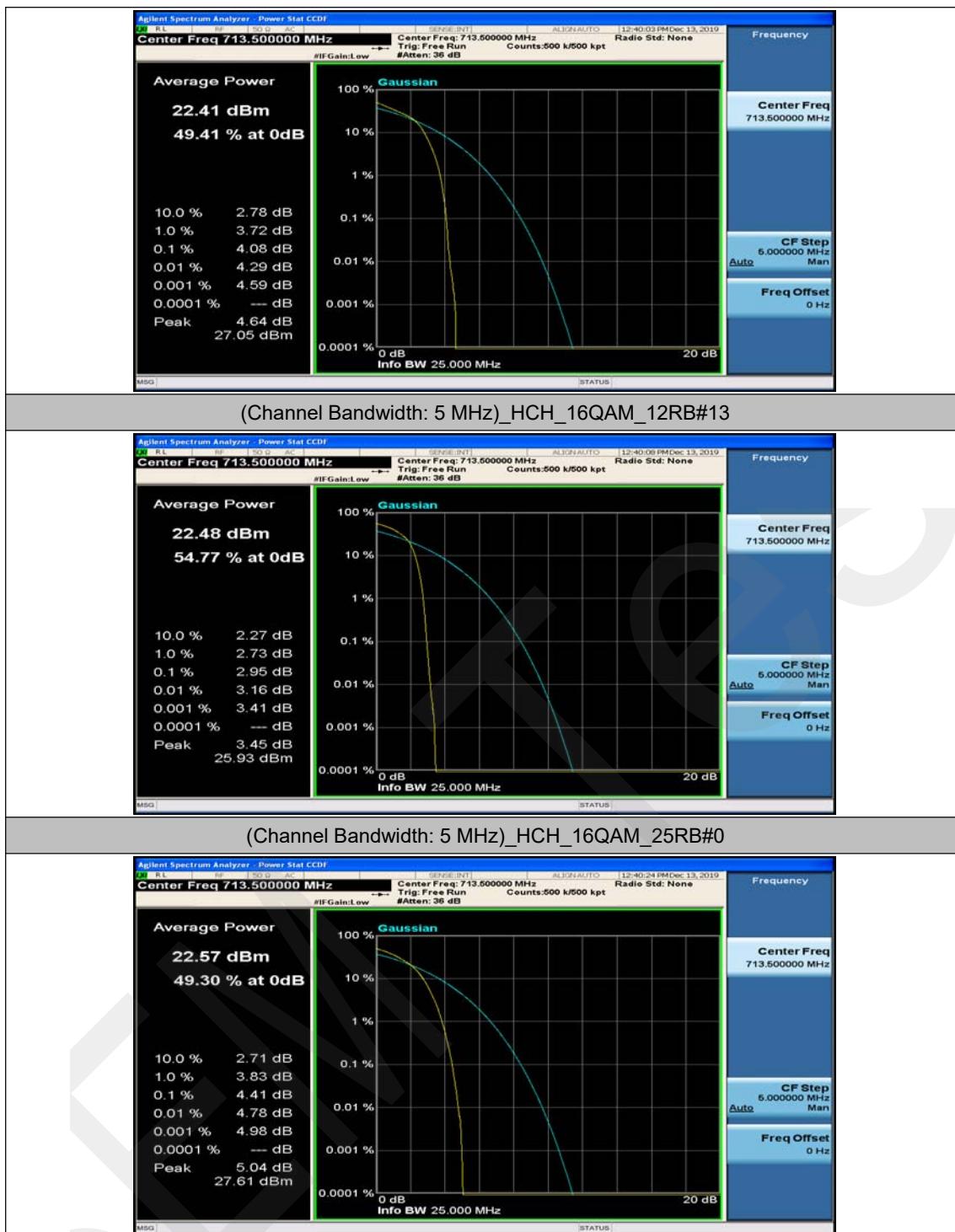


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

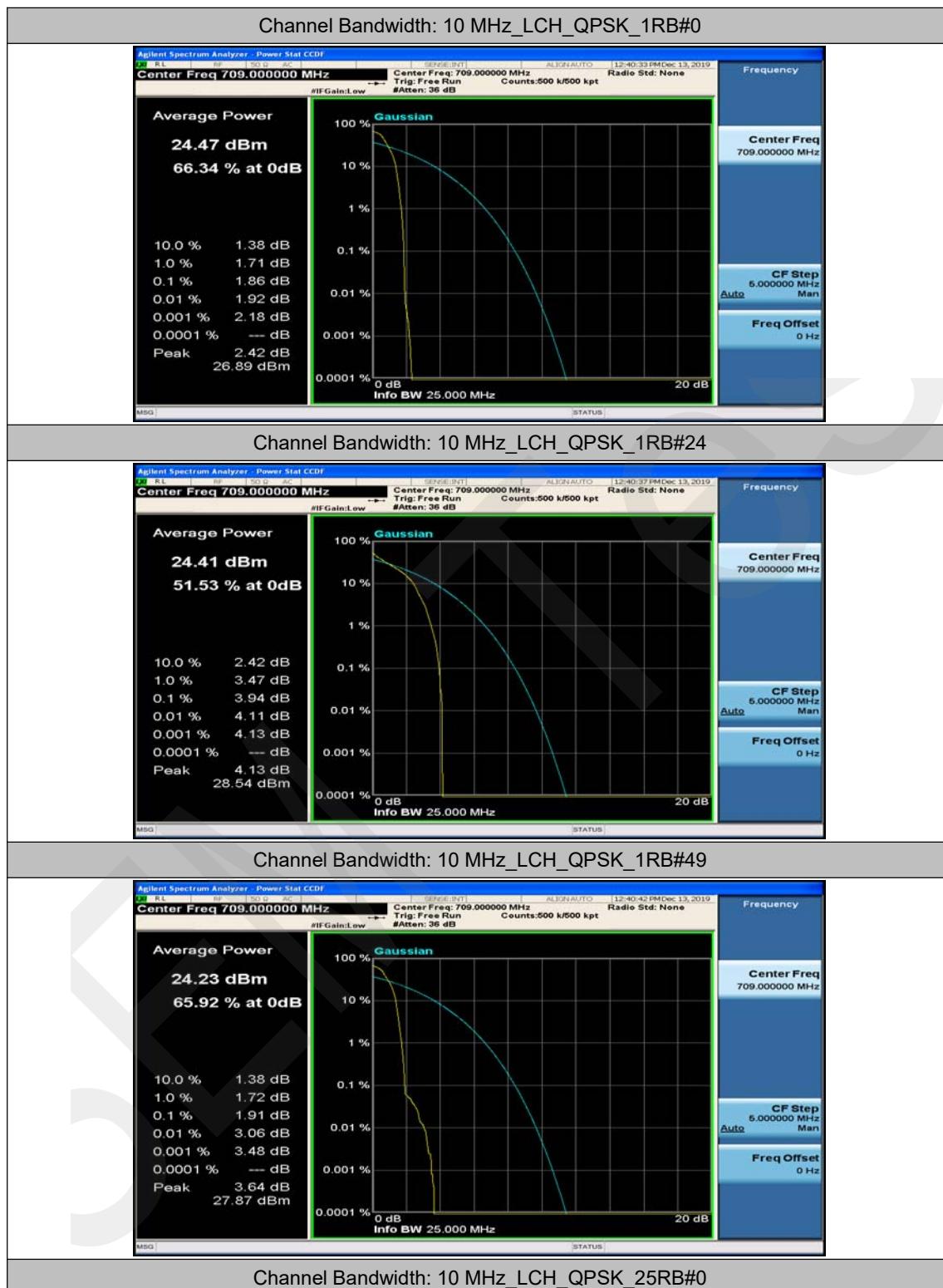




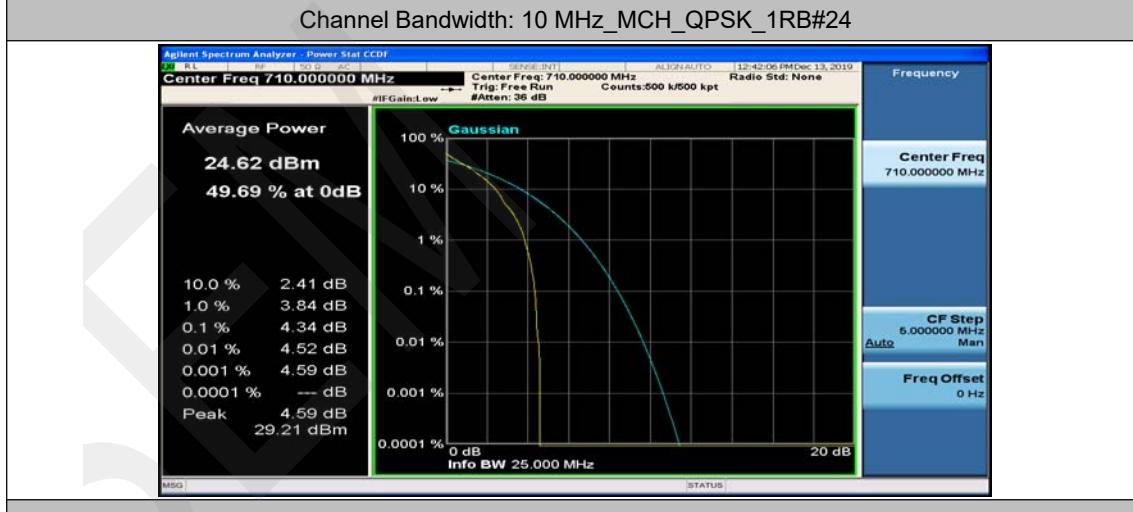
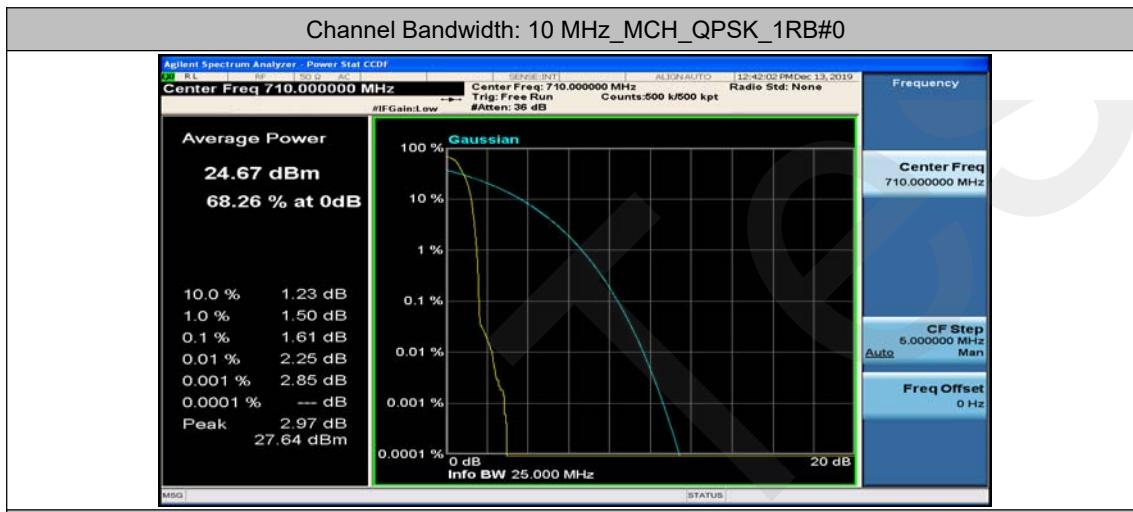
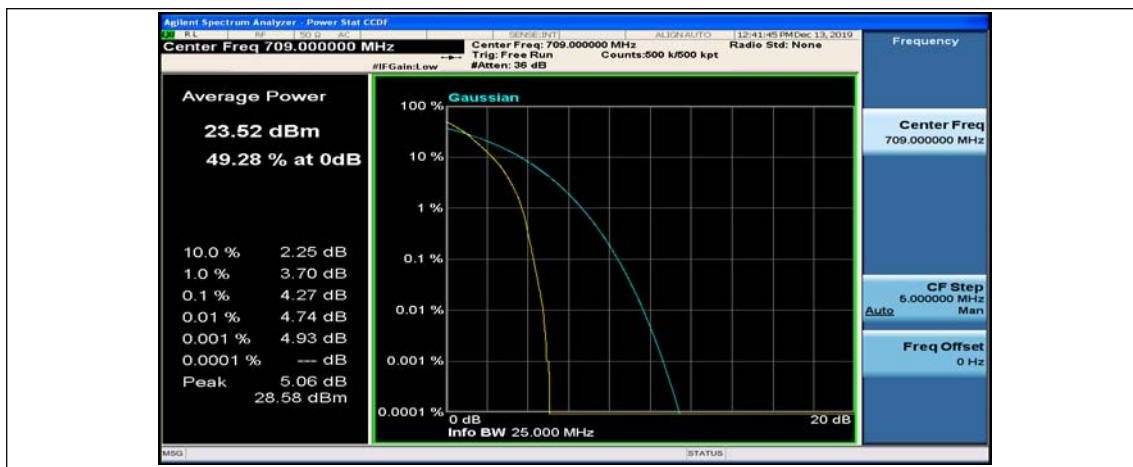




Channel Bandwidth: 10 MHz

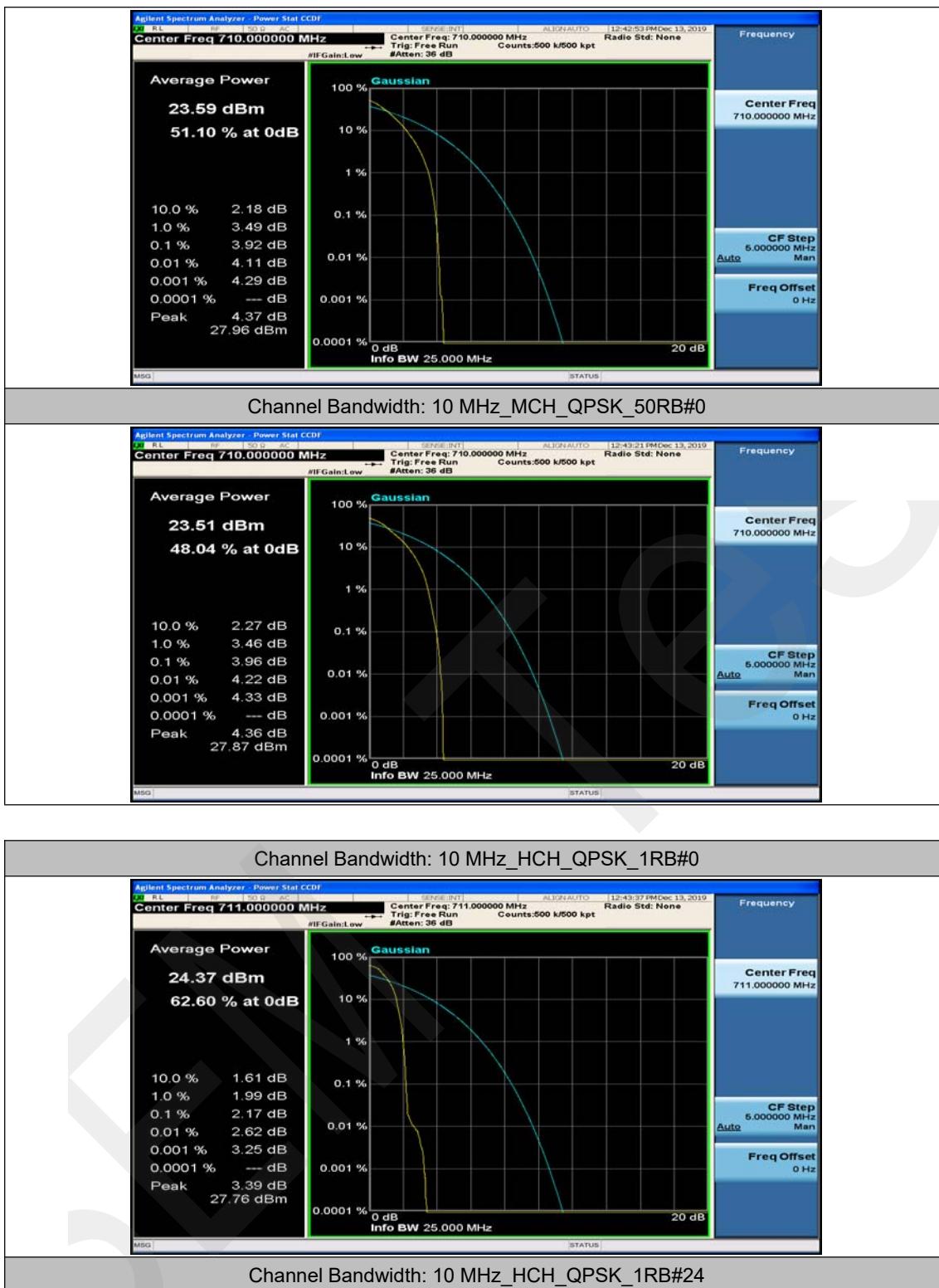


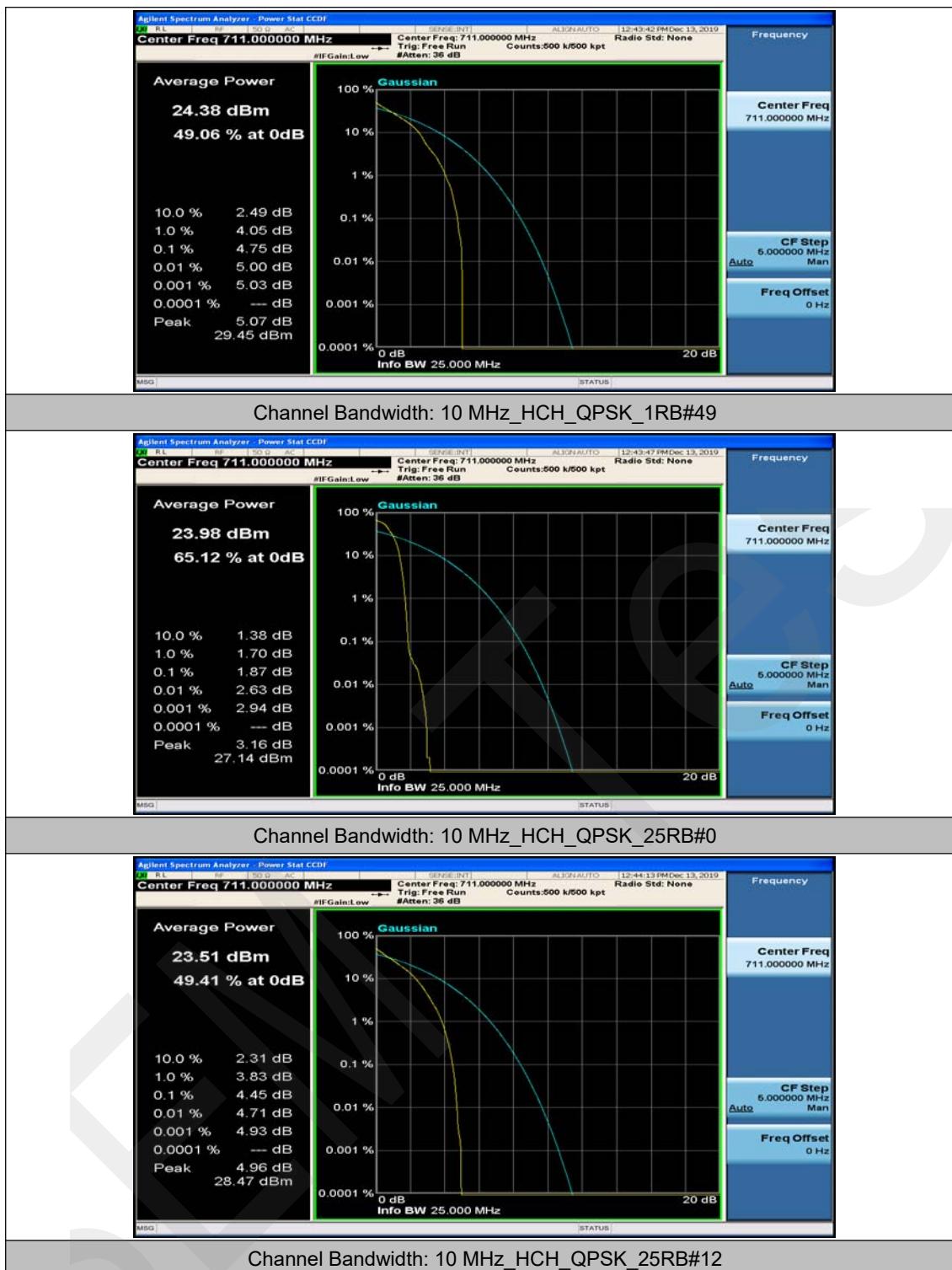




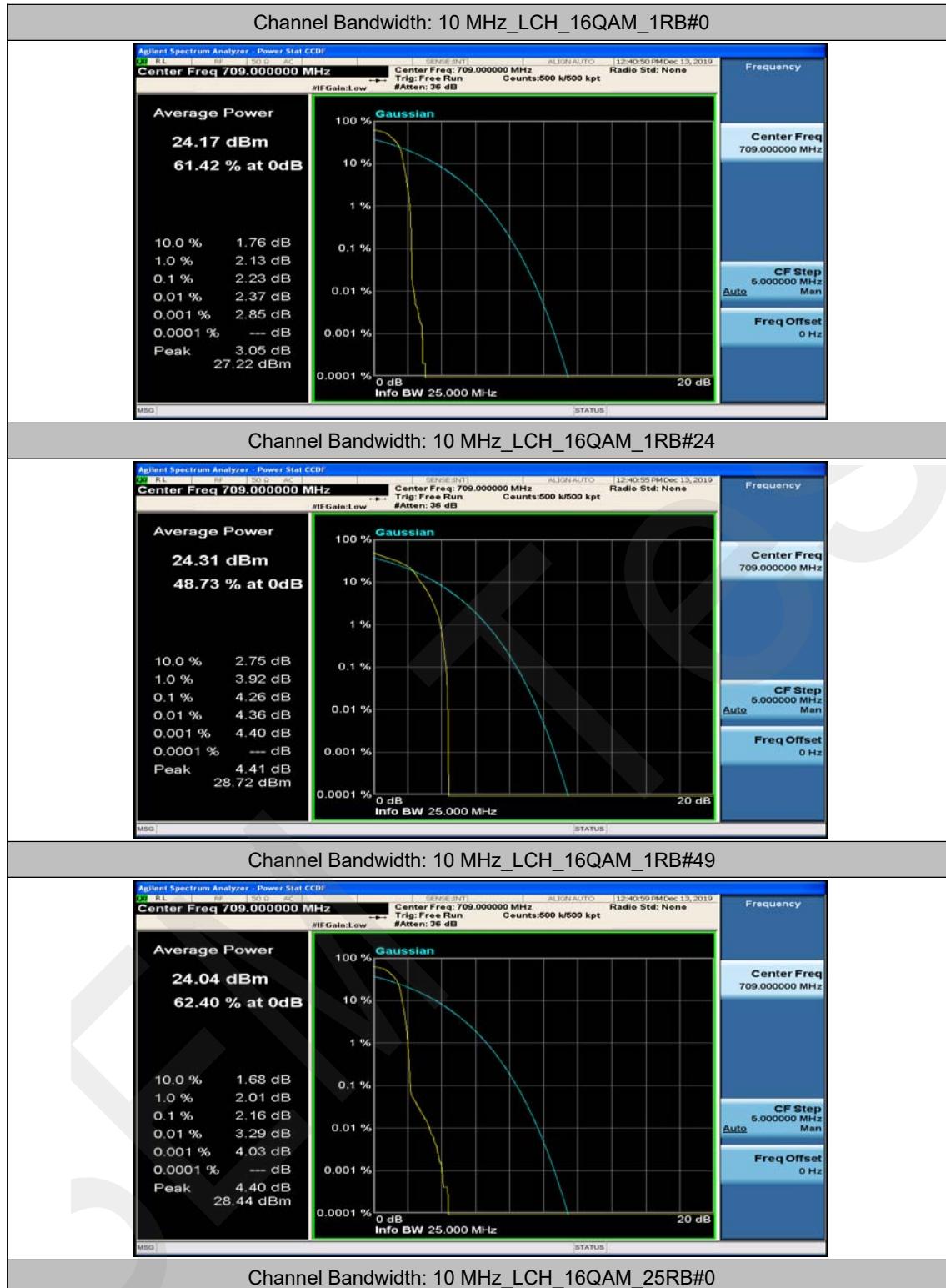
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

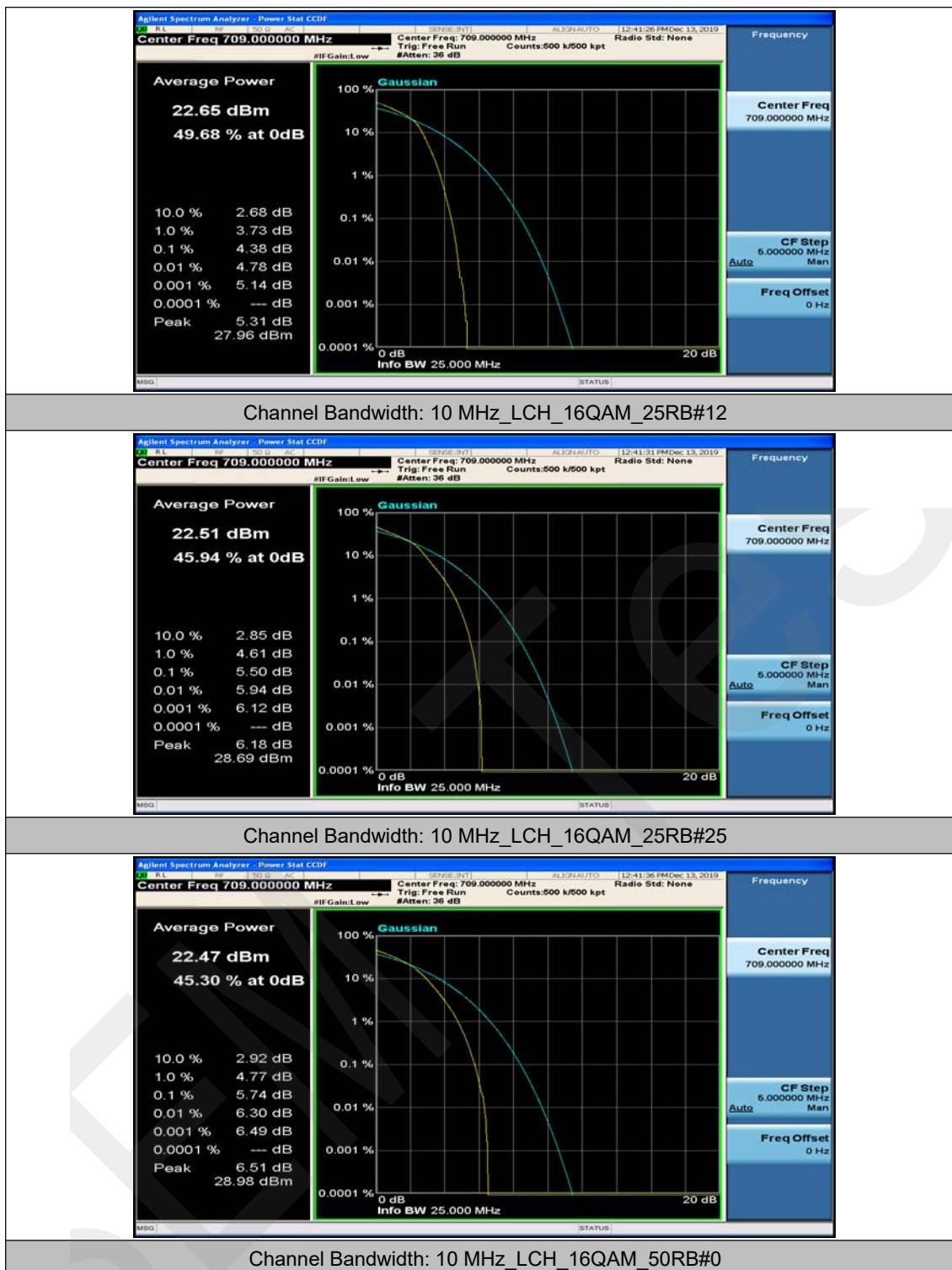


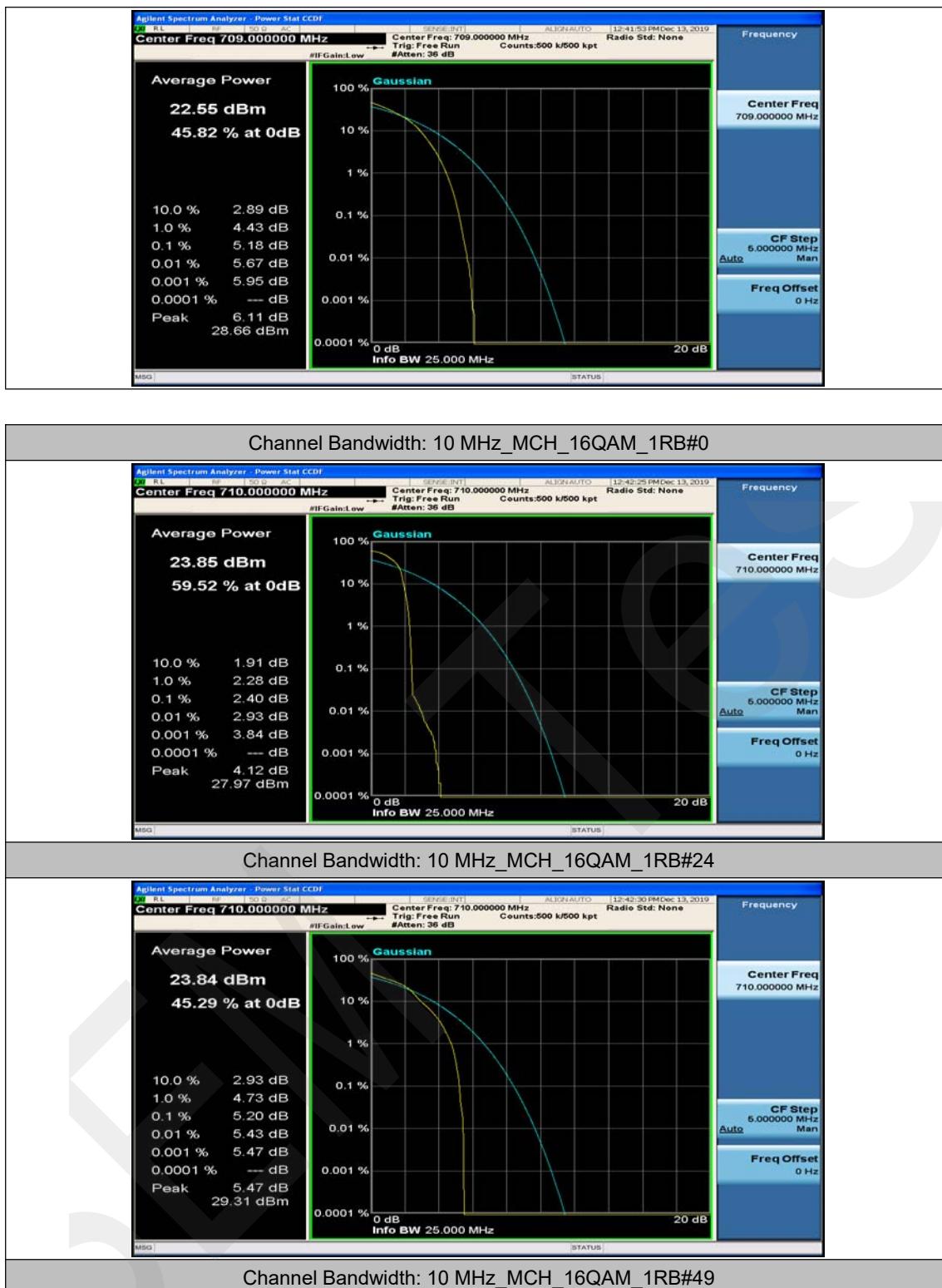


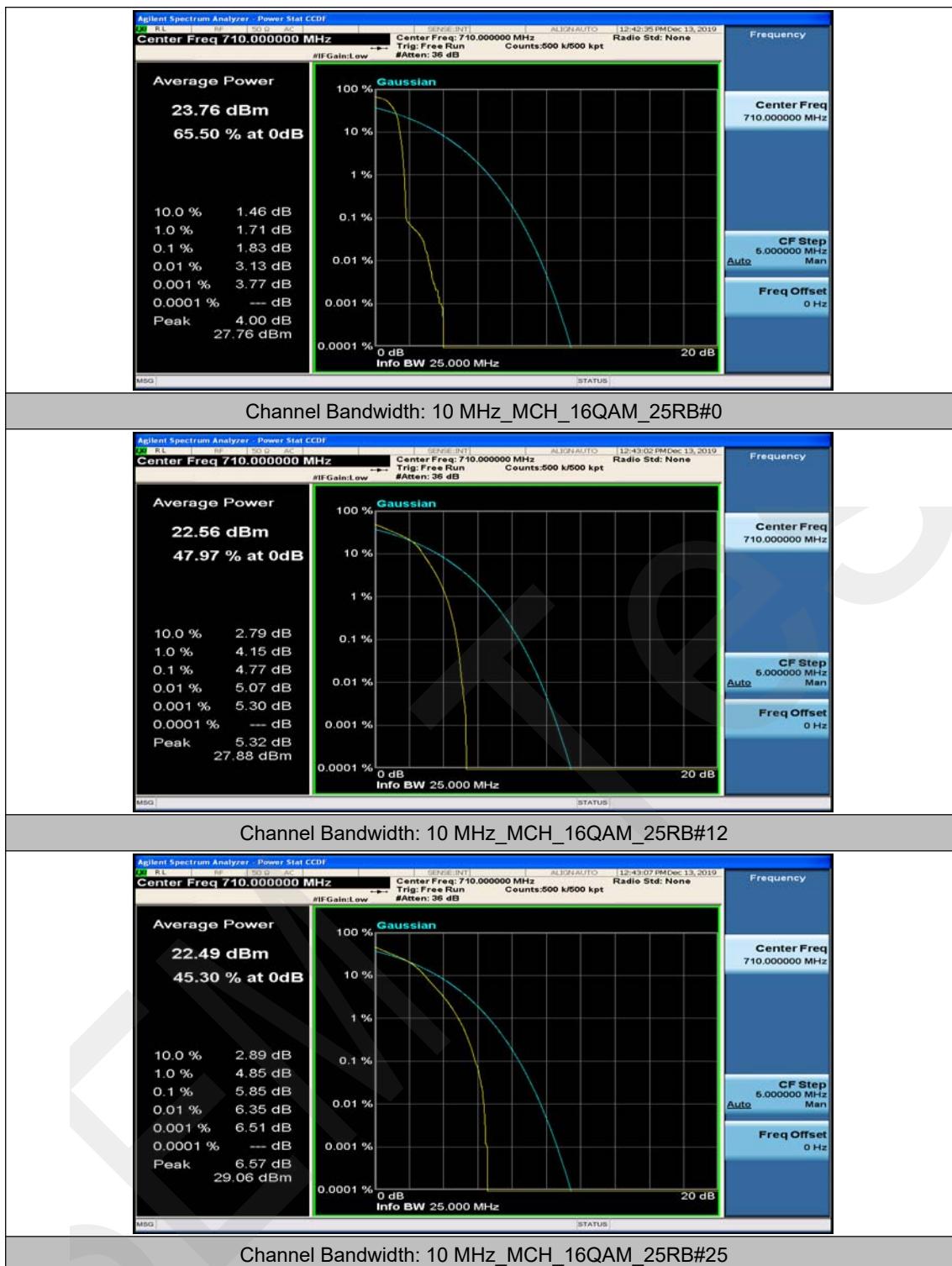


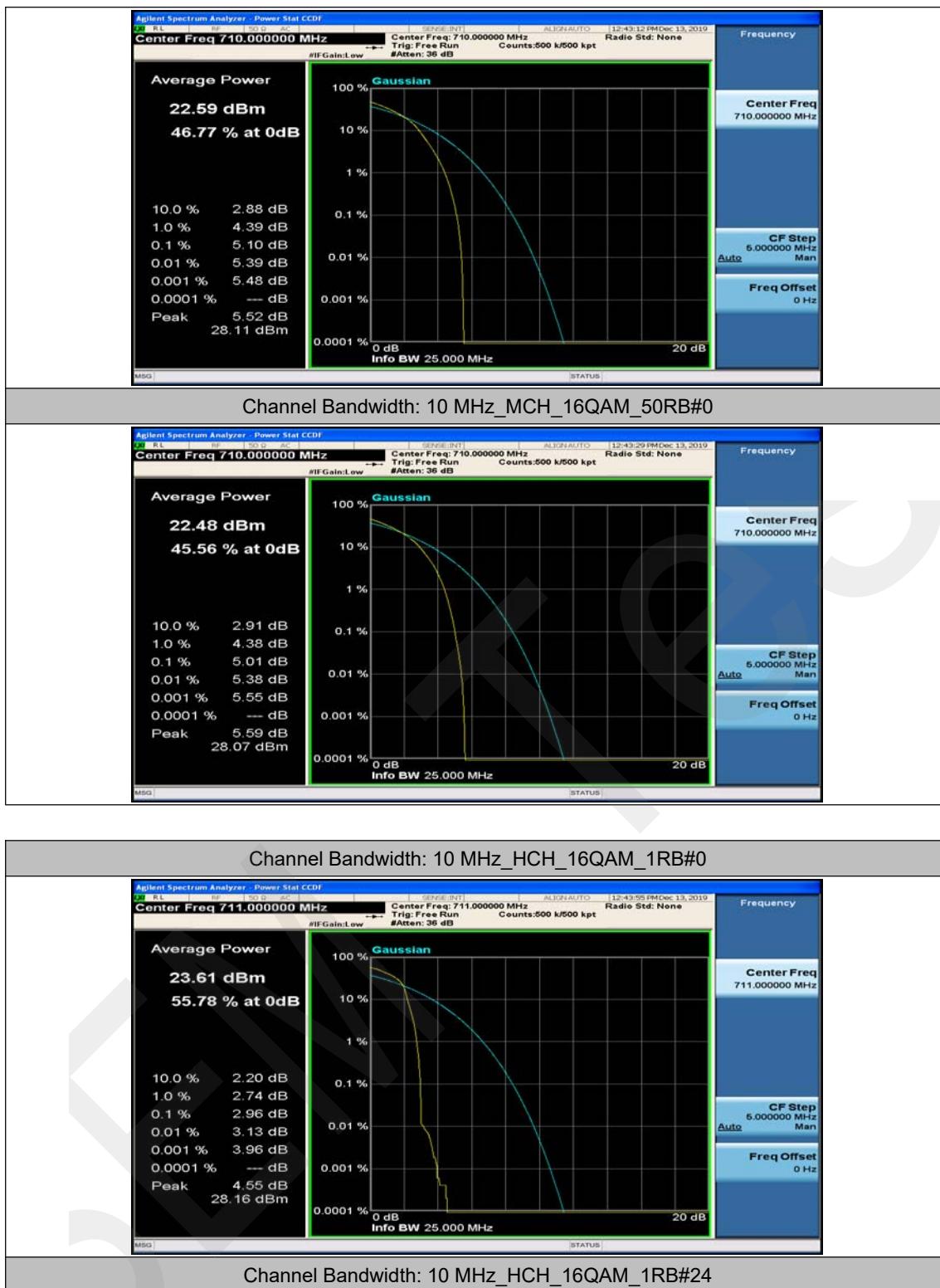


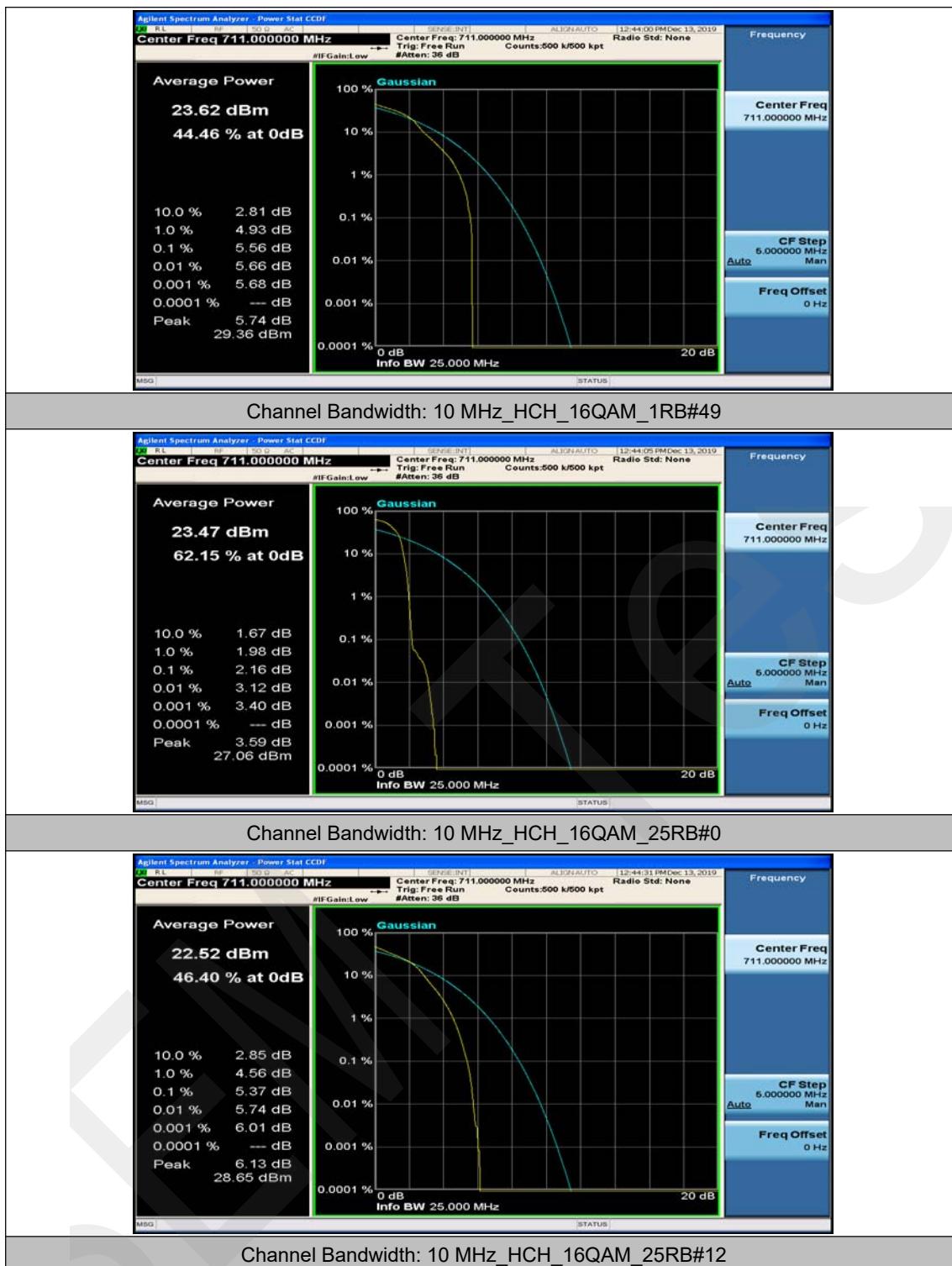


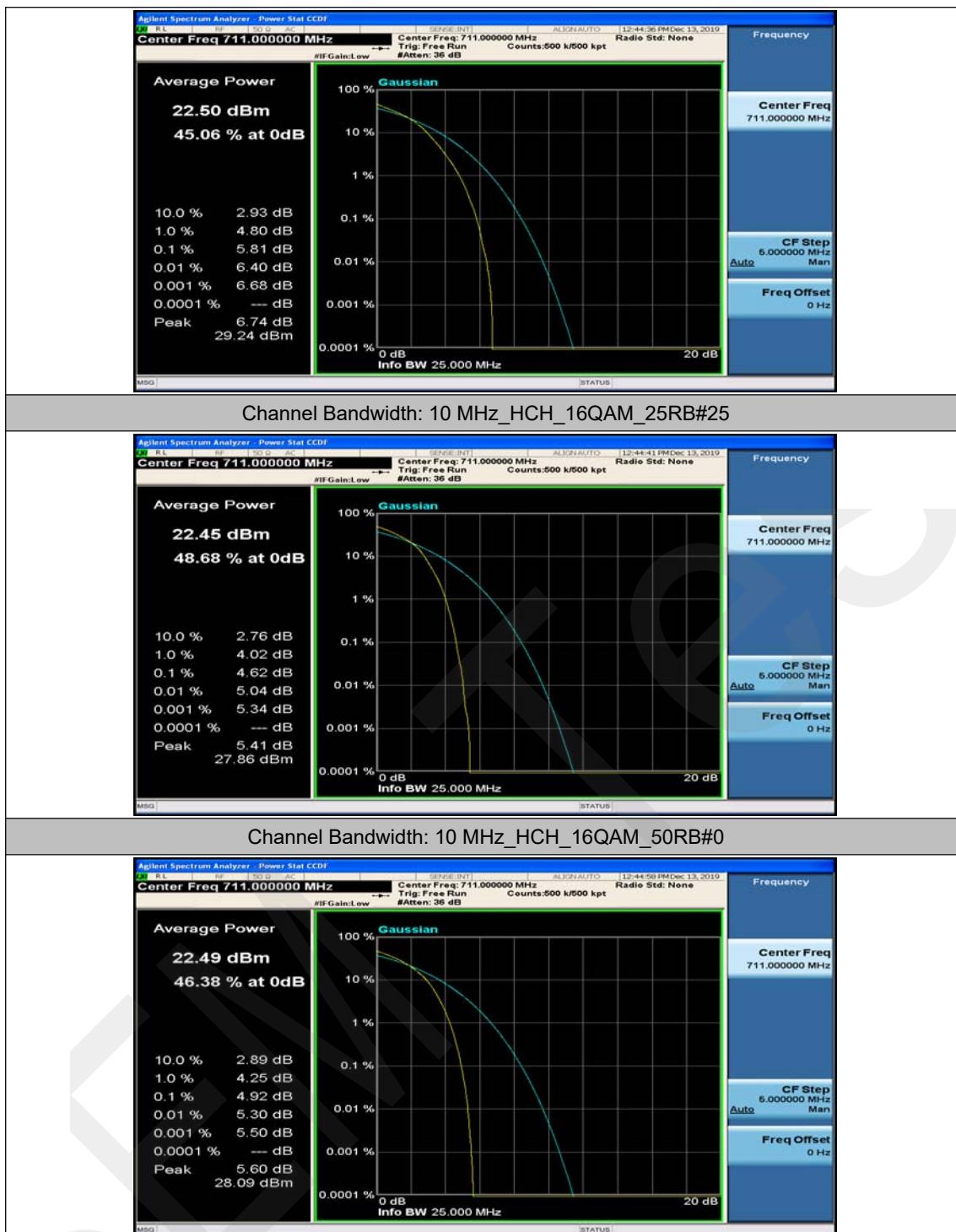












Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 5 MHz

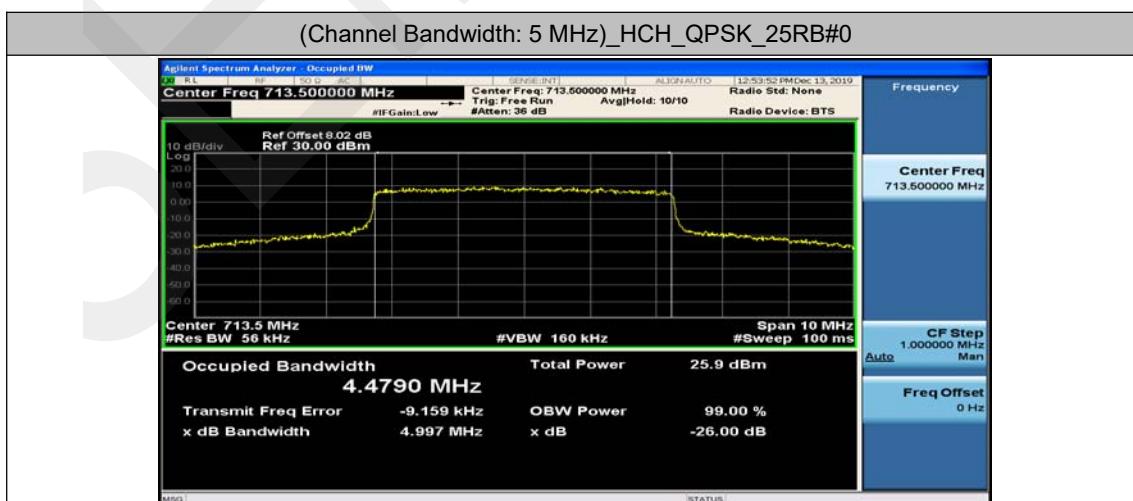
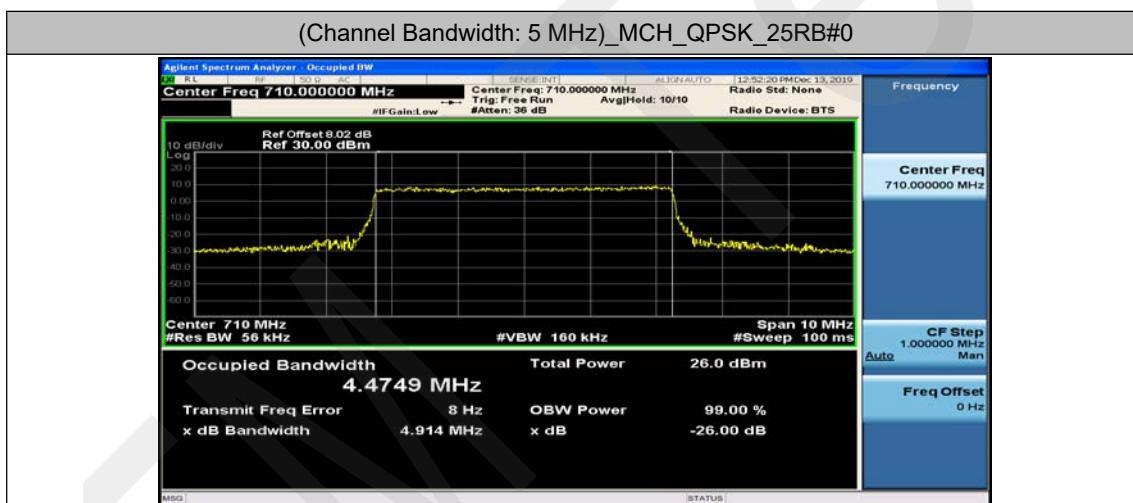
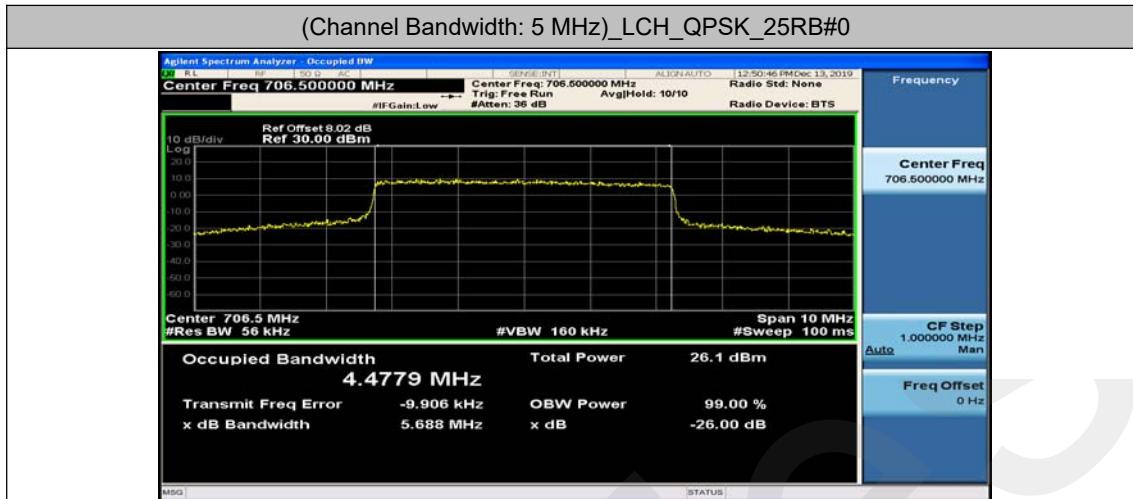
| Channel Bandwidth: 5 MHz | | | | | | |
|--------------------------|---------|------------------|--------|-----------------------------|-------------------------|---------|
| Modulation | Channel | RB Configuration | | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 25 | 0 | 4.4779 | 5.688 | PASS |
| | MCH | 25 | 0 | 4.4749 | 4.914 | PASS |
| | HCH | 25 | 0 | 4.4790 | 4.997 | PASS |
| 16QAM | LCH | 25 | 0 | 4.4855 | 5.333 | PASS |
| | MCH | 25 | 0 | 4.4793 | 4.832 | PASS |
| | HCH | 25 | 0 | 4.4539 | 4.828 | PASS |

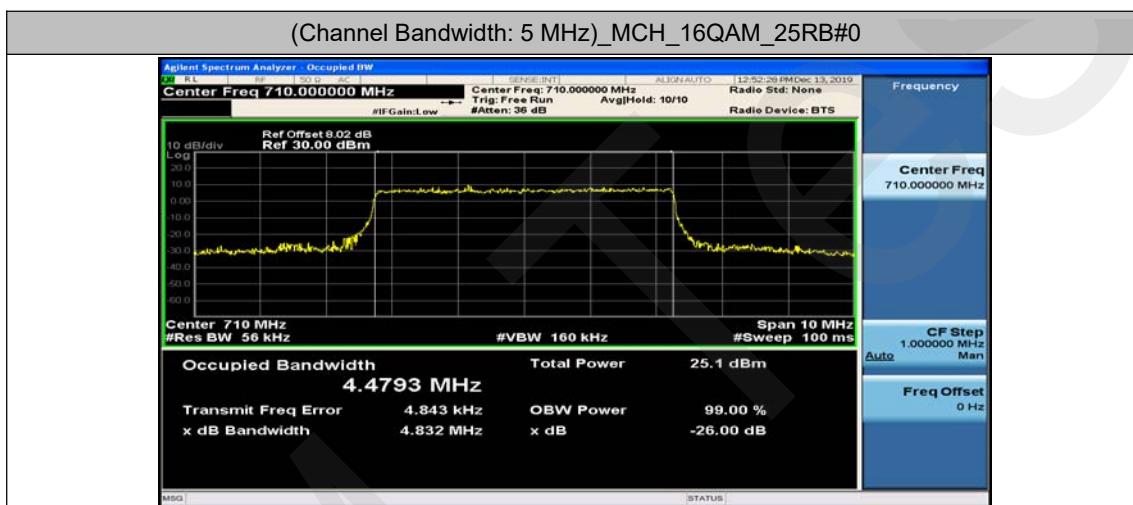
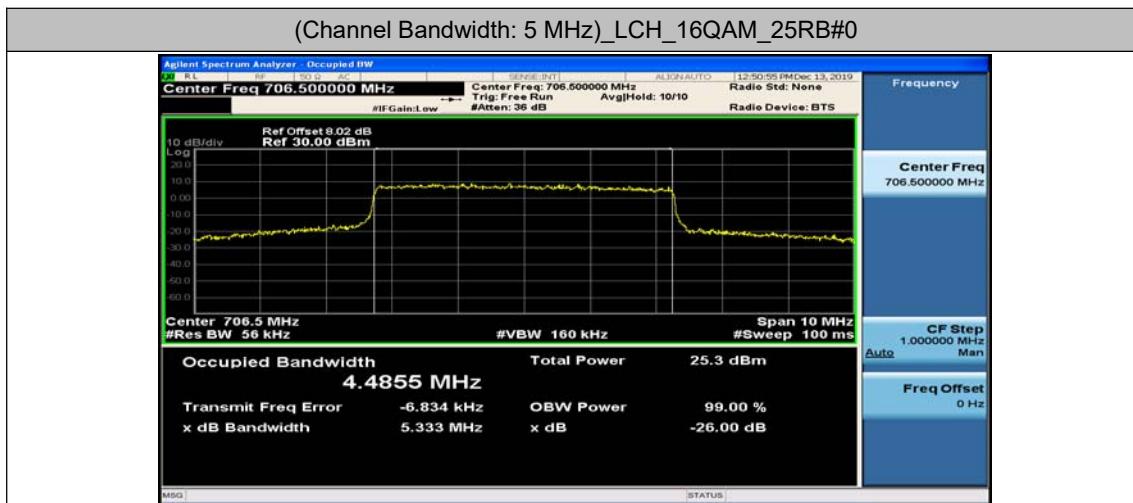
Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz | | | | | | |
|---------------------------|---------|------------------|--------|-----------------------------|-------------------------|---------|
| Modulation | Channel | RB Configuration | | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 50 | 0 | 8.9809 | 9.652 | PASS |
| | MCH | 50 | 0 | 8.9584 | 9.595 | PASS |
| | HCH | 50 | 0 | 8.9446 | 9.616 | PASS |
| 16QAM | LCH | 50 | 0 | 8.9785 | 9.582 | PASS |
| | MCH | 50 | 0 | 8.9678 | 9.562 | PASS |
| | HCH | 50 | 0 | 8.9334 | 9.569 | PASS |

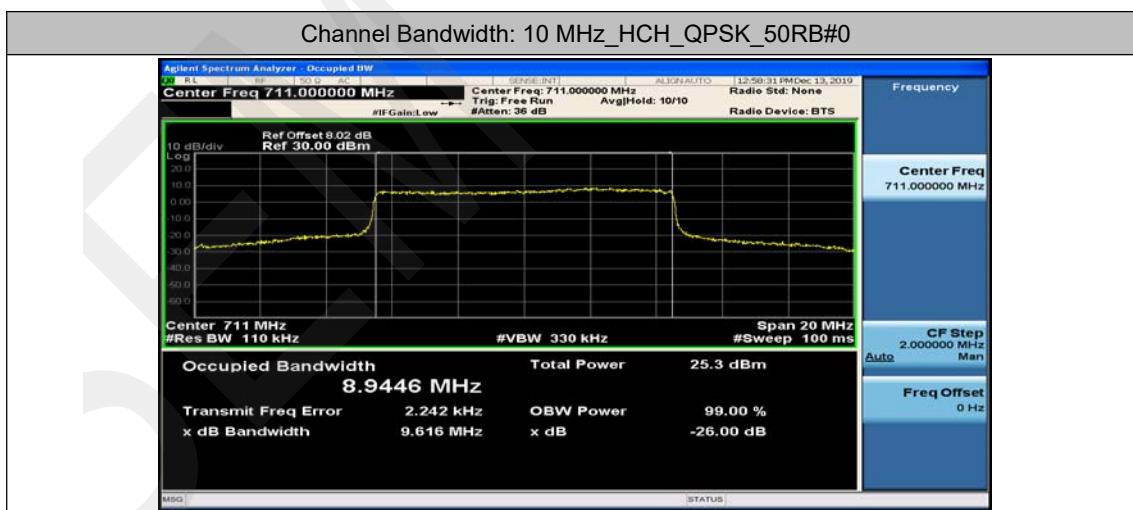
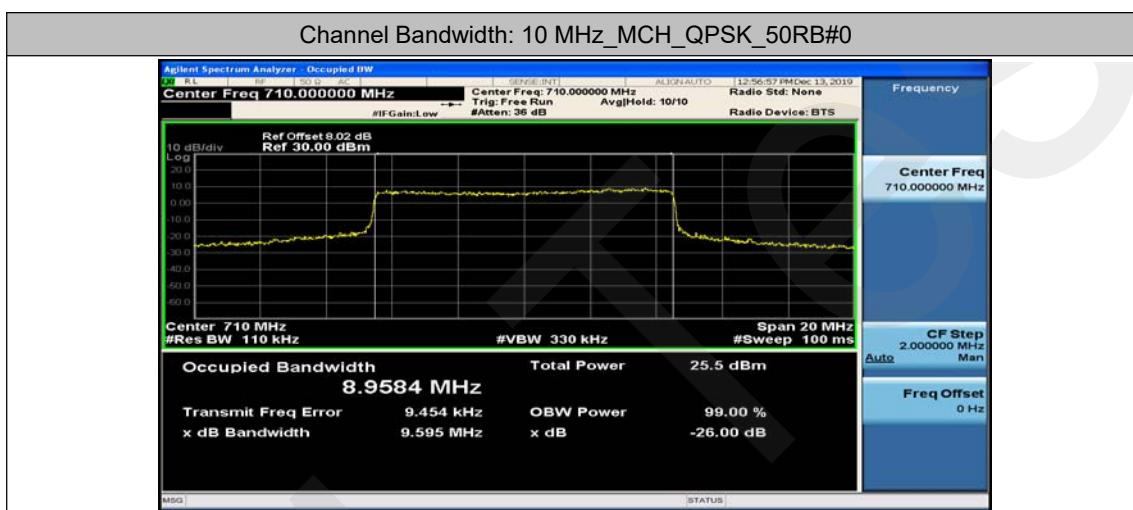
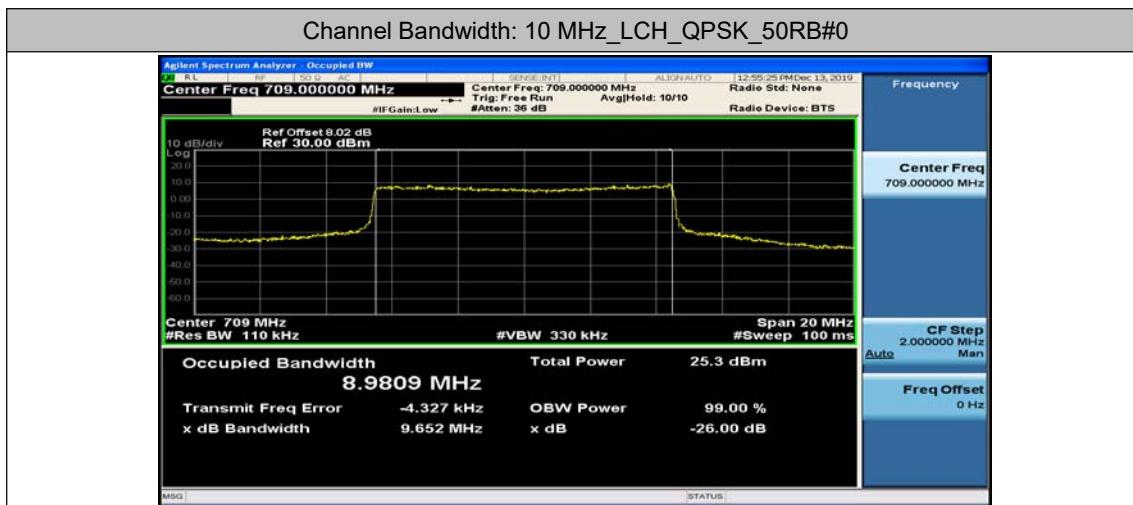
Test Graphs

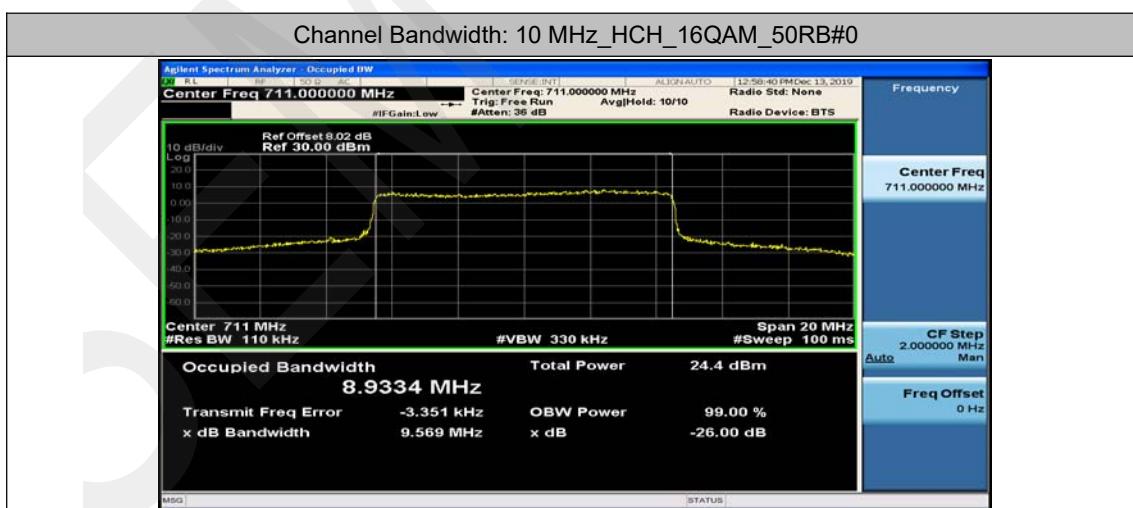
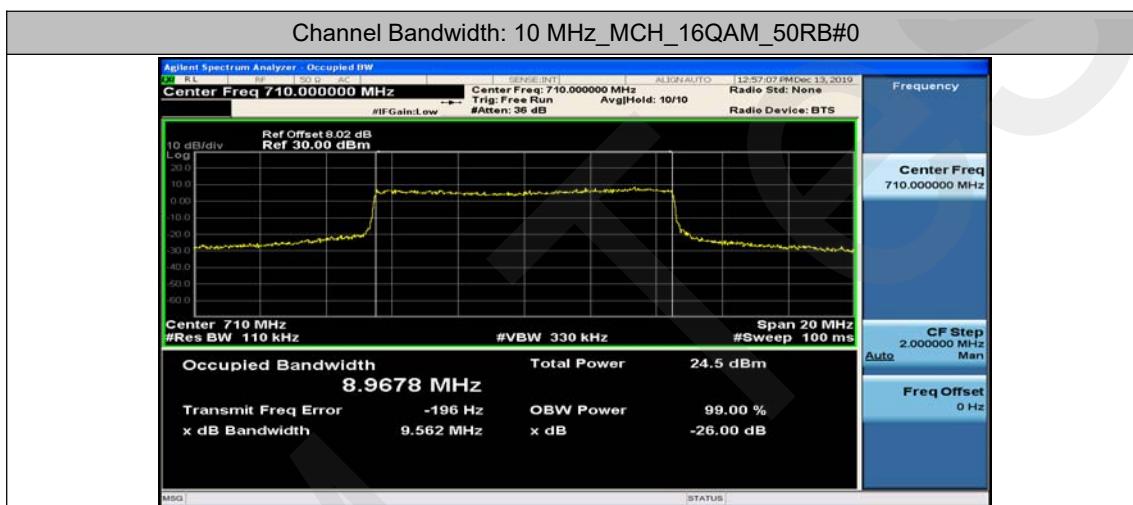
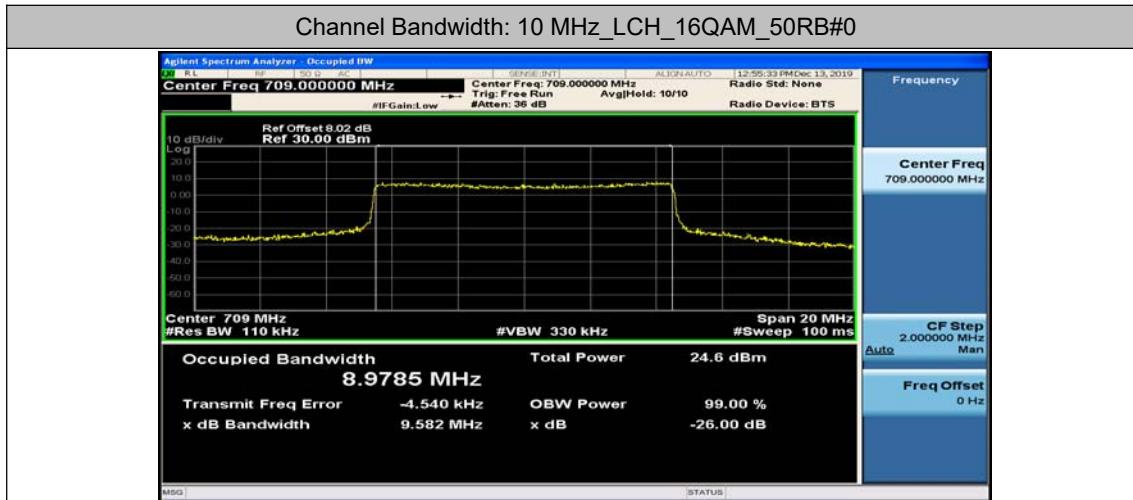
Channel Bandwidth: 5 MHz





Channel Bandwidth: 10 MHz

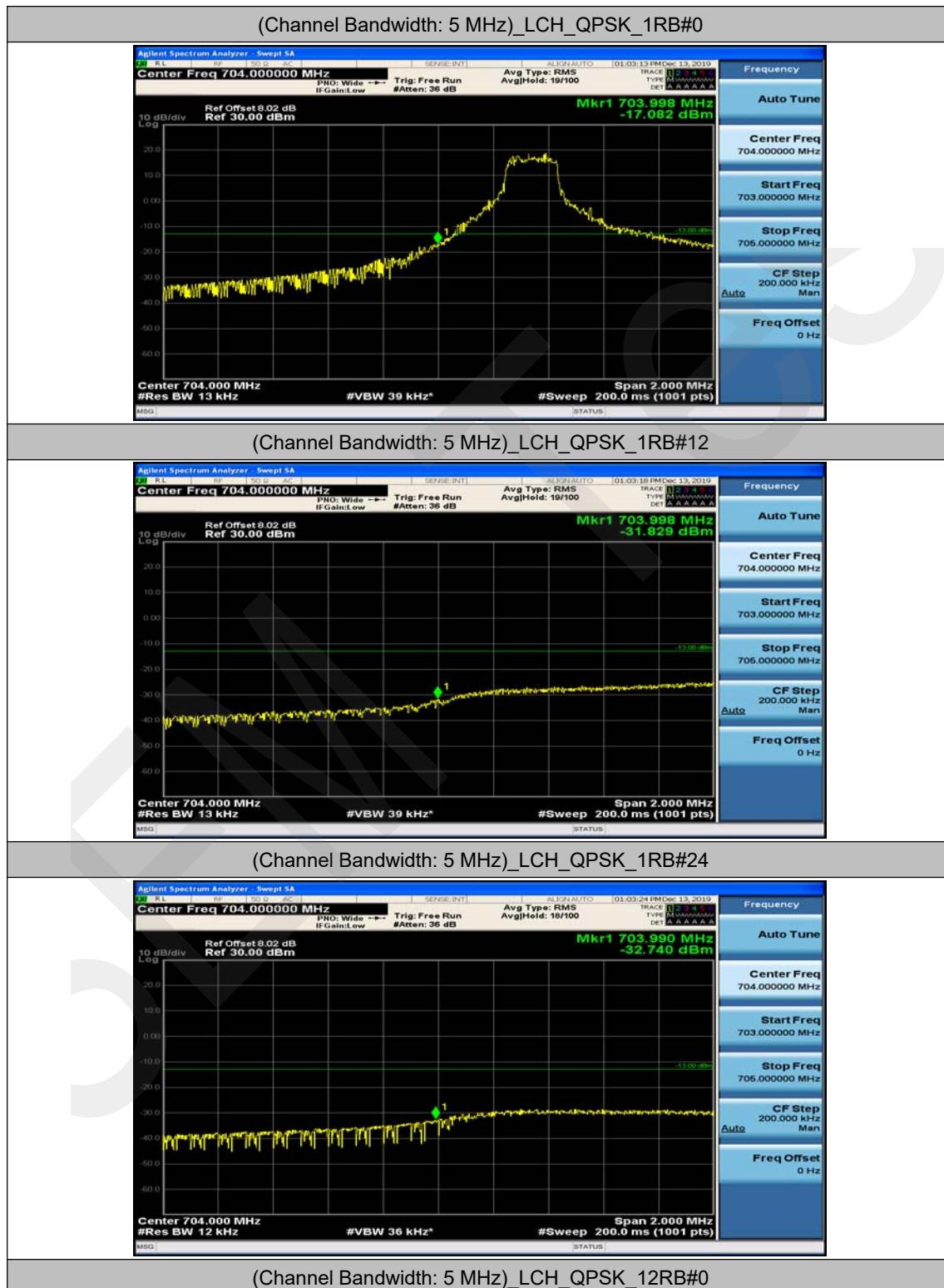


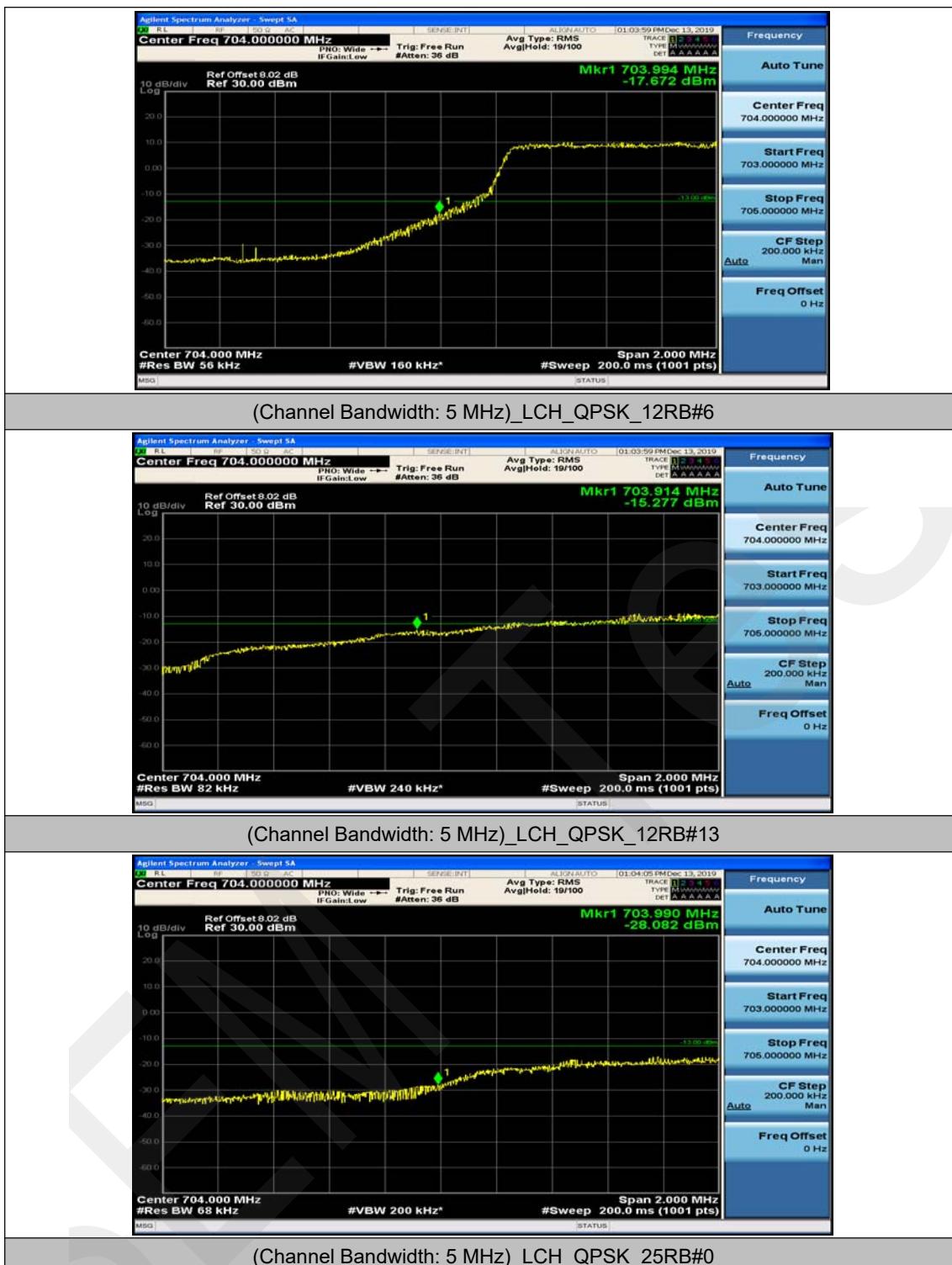


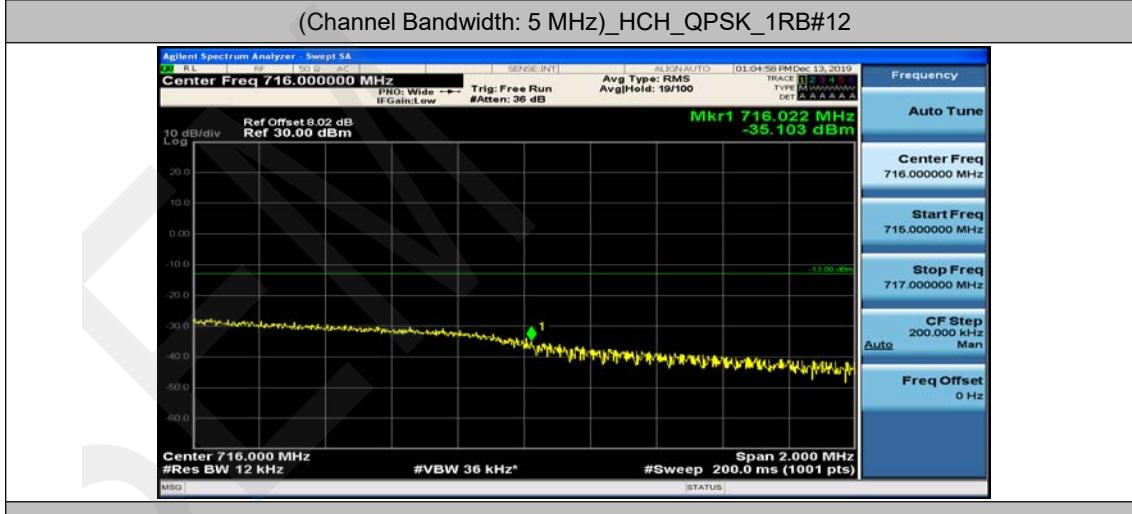
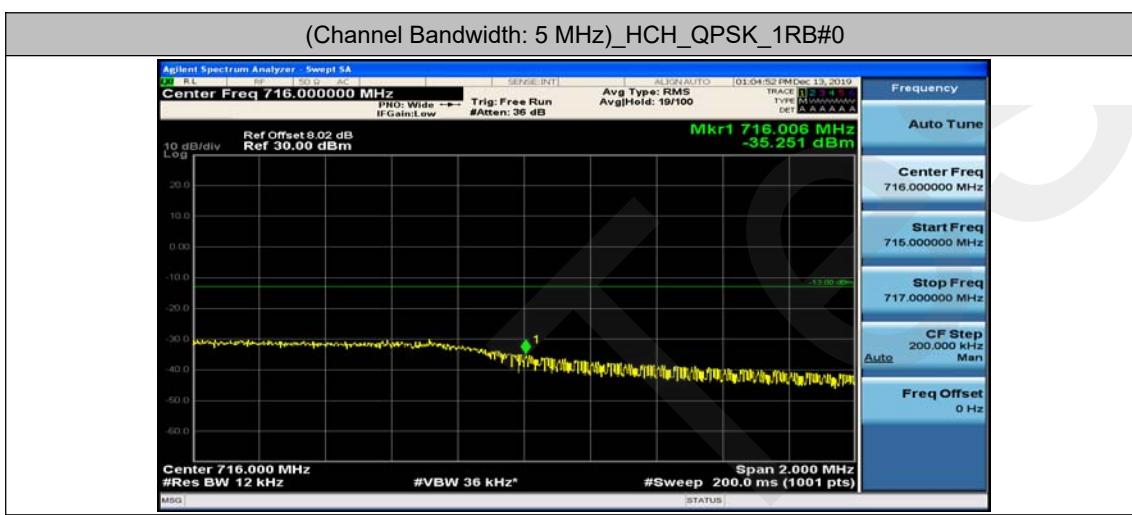
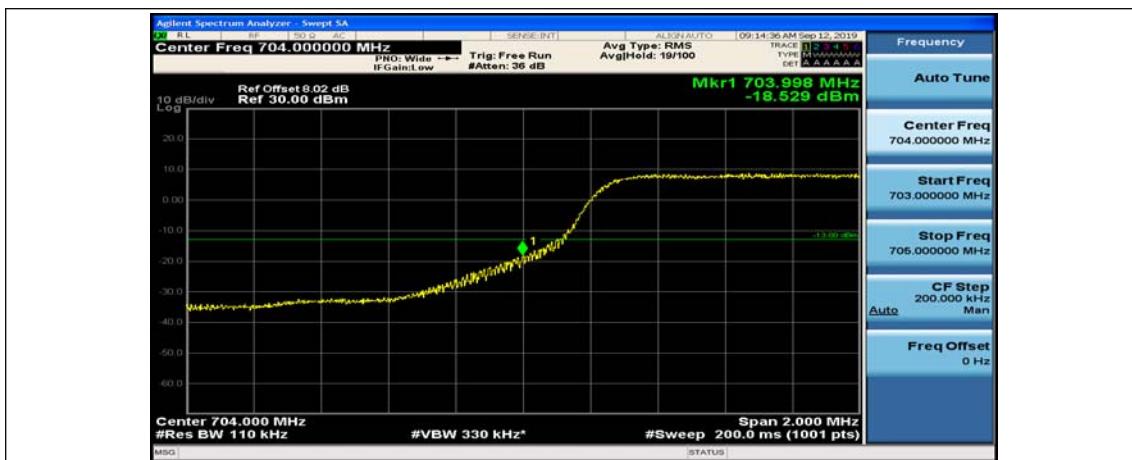
Appendix D: Band Edge

Test Graphs

Channel Bandwidth: 5 MHz







(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

