

Appendix for Band 5

Appendix A: Average Power Output Data

Test Result

Channel Bandwidth: 1.4 MHz

| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 23.72 | PASS |
| | | 1 | 3 | 23.78 | PASS |
| | | 1 | 5 | 23.71 | PASS |
| | | 3 | 0 | 23.73 | PASS |
| | | 3 | 2 | 23.75 | PASS |
| | | 3 | 3 | 23.75 | PASS |
| | | 6 | 0 | 23.82 | PASS |
| | MCH | 1 | 0 | 23.78 | PASS |
| | | 1 | 3 | 23.83 | PASS |
| | | 1 | 5 | 23.72 | PASS |
| | | 3 | 0 | 23.82 | PASS |
| | | 3 | 2 | 23.73 | PASS |
| | | 3 | 3 | 23.78 | PASS |
| | | 6 | 0 | 23.75 | PASS |
| 16QAM | HCH | 1 | 0 | 22.79 | PASS |
| | | 1 | 3 | 22.84 | PASS |
| | | 1 | 5 | 22.77 | PASS |
| | | 3 | 0 | 22.81 | PASS |
| | | 3 | 2 | 22.82 | PASS |
| | | 3 | 3 | 22.82 | PASS |
| | | 6 | 0 | 22.85 | PASS |
| | LCH | 1 | 0 | 23.81 | PASS |
| | | 1 | 3 | 23.95 | PASS |
| | | 1 | 5 | 23.84 | PASS |
| | | 3 | 0 | 23.79 | PASS |
| | | 3 | 2 | 23.76 | PASS |
| | | 3 | 3 | 23.75 | PASS |
| | | 6 | 0 | 23.71 | PASS |
| | MCH | 1 | 0 | 24.16 | PASS |
| | | 1 | 3 | 24.25 | PASS |
| | | 1 | 5 | 24.11 | PASS |

| | | | | | |
|--|-----|---|---|-------|------|
| | HCH | 3 | 0 | 23.83 | PASS |
| | | 3 | 2 | 23.80 | PASS |
| | | 3 | 3 | 23.84 | PASS |
| | | 6 | 0 | 23.73 | PASS |
| | | 1 | 0 | 22.92 | PASS |
| | | 1 | 3 | 23.05 | PASS |
| | | 1 | 5 | 22.96 | PASS |
| | | 3 | 0 | 22.87 | PASS |
| | LCH | 3 | 2 | 22.86 | PASS |
| | | 3 | 3 | 22.87 | PASS |
| | | 6 | 0 | 22.78 | PASS |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Channel Bandwidth: 3 MHz

| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 23.62 | PASS |
| | | 1 | 7 | 23.75 | PASS |
| | | 1 | 14 | 23.72 | PASS |
| | | 8 | 0 | 23.77 | PASS |
| | | 8 | 4 | 23.79 | PASS |
| | | 8 | 7 | 23.81 | PASS |
| | | 15 | 0 | 23.77 | PASS |
| | MCH | 1 | 0 | 23.76 | PASS |
| | | 1 | 7 | 23.80 | PASS |
| | | 1 | 14 | 23.62 | PASS |
| | | 8 | 0 | 23.78 | PASS |
| | | 8 | 4 | 23.72 | PASS |
| | | 8 | 7 | 23.68 | PASS |
| | | 15 | 0 | 23.76 | PASS |
| | HCH | 1 | 0 | 22.80 | PASS |
| | | 1 | 7 | 22.81 | PASS |
| | | 1 | 14 | 22.75 | PASS |
| | | 8 | 0 | 22.84 | PASS |
| | | 8 | 4 | 22.81 | PASS |
| | | 8 | 7 | 22.82 | PASS |
| | | 15 | 0 | 22.83 | PASS |
| 16QAM | LCH | 1 | 0 | 23.81 | PASS |
| | | 1 | 7 | 23.93 | PASS |
| | | 1 | 14 | 23.90 | PASS |
| | | 8 | 0 | 23.74 | PASS |
| | | 8 | 4 | 23.80 | PASS |

| | | | | | |
|-----|-----|----|----|-------|------|
| | | 8 | 7 | 23.79 | PASS |
| | | 15 | 0 | 23.67 | PASS |
| MCH | MCH | 1 | 0 | 24.01 | PASS |
| | | 1 | 7 | 24.08 | PASS |
| | | 1 | 14 | 23.91 | PASS |
| | | 8 | 0 | 23.83 | PASS |
| | | 8 | 4 | 23.84 | PASS |
| | | 8 | 7 | 23.78 | PASS |
| | | 15 | 0 | 23.76 | PASS |
| | | 1 | 0 | 22.99 | PASS |
| HCH | HCH | 1 | 7 | 23.00 | PASS |
| | | 1 | 14 | 22.95 | PASS |
| | | 8 | 0 | 22.84 | PASS |
| | | 8 | 4 | 22.83 | PASS |
| | | 8 | 7 | 22.82 | PASS |
| | | 15 | 0 | 22.73 | PASS |

Channel Bandwidth: 5 MHz

| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 23.79 | PASS |
| | | 1 | 12 | 23.91 | PASS |
| | | 1 | 24 | 23.93 | PASS |
| | | 12 | 0 | 23.85 | PASS |
| | | 12 | 6 | 23.90 | PASS |
| | | 12 | 13 | 23.94 | PASS |
| | | 25 | 0 | 23.84 | PASS |
| QPSK | MCH | 1 | 0 | 23.89 | PASS |
| | | 1 | 12 | 23.87 | PASS |
| | | 1 | 24 | 23.65 | PASS |
| | | 12 | 0 | 23.92 | PASS |
| | | 12 | 6 | 23.85 | PASS |
| | | 12 | 13 | 23.79 | PASS |
| | | 25 | 0 | 23.79 | PASS |
| | HCH | 1 | 0 | 23.10 | PASS |

| | | | | | |
|-------|-----|----|----|-------|------|
| | | 1 | 12 | 22.98 | PASS |
| | | 1 | 24 | 22.89 | PASS |
| | | 12 | 0 | 23.06 | PASS |
| | | 12 | 6 | 22.98 | PASS |
| | | 12 | 13 | 22.91 | PASS |
| | | 25 | 0 | 22.94 | PASS |
| 16QAM | LCH | 1 | 0 | 24.05 | PASS |
| | | 1 | 12 | 24.18 | PASS |
| | | 1 | 24 | 24.20 | PASS |
| | | 12 | 0 | 23.90 | PASS |
| | | 12 | 6 | 23.94 | PASS |
| | | 12 | 13 | 23.99 | PASS |
| | | 25 | 0 | 23.81 | PASS |
| | MCH | 1 | 0 | 24.23 | PASS |
| | | 1 | 12 | 24.28 | PASS |
| | | 1 | 24 | 24.09 | PASS |
| | | 12 | 0 | 24.04 | PASS |
| | | 12 | 6 | 24.01 | PASS |
| | | 12 | 13 | 23.97 | PASS |
| | | 25 | 0 | 23.86 | PASS |
| | HCH | 1 | 0 | 23.43 | PASS |
| | | 1 | 12 | 23.27 | PASS |
| | | 1 | 24 | 23.18 | PASS |
| | | 12 | 0 | 23.12 | PASS |
| | | 12 | 6 | 23.03 | PASS |
| | | 12 | 13 | 22.97 | PASS |
| | | 25 | 0 | 22.92 | PASS |

Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz | | | | | |
|---------------------------|---------|------------------|--------|---------------------|---------|
| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 23.17 | PASS |
| | | 1 | 24 | 23.21 | PASS |
| | | 1 | 49 | 23.31 | PASS |
| | | 25 | 0 | 22.23 | PASS |
| | | 25 | 12 | 22.26 | PASS |
| | | 25 | 25 | 22.30 | PASS |
| | | 50 | 0 | 22.29 | PASS |
| | MCH | 1 | 0 | 23.27 | PASS |
| | | 1 | 24 | 23.40 | PASS |
| | | 1 | 49 | 23.51 | PASS |
| | | 25 | 0 | 22.36 | PASS |
| | | 25 | 12 | 22.44 | PASS |
| | | 25 | 25 | 22.54 | PASS |
| | | 50 | 0 | 22.45 | PASS |
| 16QAM | LCH | 1 | 0 | 23.51 | PASS |
| | | 1 | 24 | 23.57 | PASS |
| | | 1 | 49 | 23.63 | PASS |
| | | 25 | 0 | 22.61 | PASS |
| | | 25 | 12 | 22.62 | PASS |
| | | 25 | 25 | 22.66 | PASS |
| | | 50 | 0 | 22.63 | PASS |
| | MCH | 1 | 0 | 22.57 | PASS |
| | | 1 | 24 | 22.57 | PASS |
| | | 1 | 49 | 22.54 | PASS |
| | | 25 | 0 | 21.25 | PASS |
| | | 25 | 12 | 21.27 | PASS |
| | | 25 | 25 | 21.29 | PASS |
| | | 50 | 0 | 21.29 | PASS |
| | HCH | 1 | 0 | 22.53 | PASS |
| | | 1 | 24 | 22.65 | PASS |
| | | 1 | 49 | 22.86 | PASS |
| | | 25 | 0 | 21.35 | PASS |
| | | 25 | 12 | 21.42 | PASS |
| | | 25 | 25 | 21.52 | PASS |
| | | 50 | 0 | 21.42 | PASS |
| | HCH | 1 | 0 | 22.84 | PASS |
| | | 1 | 24 | 22.83 | PASS |

| | | | | | |
|--|--|----|----|-------|------|
| | | 1 | 49 | 22.86 | PASS |
| | | 25 | 0 | 21.63 | PASS |
| | | 25 | 12 | 21.65 | PASS |
| | | 25 | 25 | 21.64 | PASS |
| | | 50 | 0 | 21.61 | PASS |

Appendix B: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 1.4 MHz

| Channel Bandwidth: 1.4 MHz | | | | | | |
|----------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio (dB) | Limit (dB) | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 4.47 | <13 | PASS |
| | | 1 | 3 | 4.34 | <13 | PASS |
| | | 1 | 5 | 4.3 | <13 | PASS |
| | | 3 | 0 | 4.41 | <13 | PASS |
| | | 3 | 2 | 4.36 | <13 | PASS |
| | | 3 | 3 | 4.39 | <13 | PASS |
| | | 6 | 0 | 4.93 | <13 | PASS |
| | MCH | 1 | 0 | 5.23 | <13 | PASS |
| | | 1 | 3 | 5.32 | <13 | PASS |
| | | 1 | 5 | 5.21 | <13 | PASS |
| | | 3 | 0 | 5.46 | <13 | PASS |
| | | 3 | 2 | 5.55 | <13 | PASS |
| | | 3 | 3 | 5.58 | <13 | PASS |
| | | 6 | 0 | 5.86 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 4.52 | <13 | PASS |
| | | 1 | 3 | 4.54 | <13 | PASS |
| | | 1 | 5 | 4.53 | <13 | PASS |
| | | 3 | 0 | 4.58 | <13 | PASS |
| | | 3 | 2 | 4.58 | <13 | PASS |
| | | 3 | 3 | 4.58 | <13 | PASS |
| | | 6 | 0 | 5.09 | <13 | PASS |
| | MCH | 1 | 0 | 4.59 | <13 | PASS |
| | | 1 | 3 | 4.47 | <13 | PASS |
| | | 1 | 5 | 4.47 | <13 | PASS |
| | | 3 | 0 | 4.62 | <13 | PASS |
| | | 3 | 2 | 4.57 | <13 | PASS |
| | | 3 | 3 | 4.6 | <13 | PASS |
| | | 6 | 0 | 5.11 | <13 | PASS |

| | | | | | | |
|-----|--|---|---|------|-----|------|
| | | 3 | 2 | 5.79 | <13 | PASS |
| | | 3 | 3 | 5.78 | <13 | PASS |
| | | 6 | 0 | 6.27 | <13 | PASS |
| HCH | | 1 | 0 | 4.73 | <13 | PASS |
| | | 1 | 3 | 4.68 | <13 | PASS |
| | | 1 | 5 | 4.68 | <13 | PASS |
| | | 3 | 0 | 4.77 | <13 | PASS |
| | | 3 | 2 | 4.79 | <13 | PASS |
| | | 3 | 3 | 4.8 | <13 | PASS |
| | | 6 | 0 | 5.32 | <13 | PASS |

Channel Bandwidth: 3 MHz

| Channel Bandwidth: 3 MHz | | | | | | |
|--------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 4.42 | <13 | PASS |
| | | 1 | 7 | 4.29 | <13 | PASS |
| | | 1 | 14 | 4.09 | <13 | PASS |
| | | 8 | 0 | 4.71 | <13 | PASS |
| | | 8 | 4 | 4.55 | <13 | PASS |
| | | 8 | 7 | 4.54 | <13 | PASS |
| | | 15 | 0 | 4.99 | <13 | PASS |
| | MCH | 1 | 0 | 5.25 | <13 | PASS |
| | | 1 | 7 | 5.45 | <13 | PASS |
| | | 1 | 14 | 5.5 | <13 | PASS |
| | | 8 | 0 | 5.8 | <13 | PASS |
| | | 8 | 4 | 5.93 | <13 | PASS |
| | | 8 | 7 | 5.88 | <13 | PASS |
| | | 15 | 0 | 5.93 | <13 | PASS |
| | HCH | 1 | 0 | 4.43 | <13 | PASS |
| | | 1 | 7 | 4.5 | <13 | PASS |
| | | 1 | 14 | 4.48 | <13 | PASS |
| | | 8 | 0 | 4.87 | <13 | PASS |
| | | 8 | 4 | 4.83 | <13 | PASS |
| | | 8 | 7 | 4.91 | <13 | PASS |
| | | 15 | 0 | 5.16 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 4.52 | <13 | PASS |
| | | 1 | 7 | 4.36 | <13 | PASS |
| | | 1 | 14 | 4.24 | <13 | PASS |
| | | 8 | 0 | 4.83 | <13 | PASS |
| | | 8 | 4 | 4.65 | <13 | PASS |

| | | | | | | |
|-----|--|----|----|------|-----|------|
| | | 8 | 7 | 4.67 | <13 | PASS |
| | | 15 | 0 | 5.3 | <13 | PASS |
| MCH | | 1 | 0 | 5.45 | <13 | PASS |
| | | 1 | 7 | 5.7 | <13 | PASS |
| | | 1 | 14 | 5.66 | <13 | PASS |
| | | 8 | 0 | 5.96 | <13 | PASS |
| | | 8 | 4 | 6.08 | <13 | PASS |
| | | 8 | 7 | 6.07 | <13 | PASS |
| | | 15 | 0 | 6.36 | <13 | PASS |
| HCH | | 1 | 0 | 4.57 | <13 | PASS |
| | | 1 | 7 | 4.63 | <13 | PASS |
| | | 1 | 14 | 4.66 | <13 | PASS |
| | | 8 | 0 | 4.99 | <13 | PASS |
| | | 8 | 4 | 4.95 | <13 | PASS |
| | | 8 | 7 | 5.06 | <13 | PASS |
| | | 15 | 0 | 5.52 | <13 | PASS |

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 | 4.26 | <13 | PASS |
| | | 1 | 12 | 3.9 | <13 | PASS |
| | | 1 | 24 | 3.85 | <13 | PASS |
| | | 12 | 0 | 4.6 | <13 | PASS |
| | | 12 | 6 | 4.35 | <13 | PASS |
| | | 12 | 13 | 4.3 | <13 | PASS |
| | | 25 | 0 | 4.87 | <13 | PASS |
| | MCH | 1 | 0 | 4.87 | <13 | PASS |
| | | 1 | 12 | 5.3 | <13 | PASS |
| | | 1 | 24 | 5.37 | <13 | PASS |
| | | 12 | 0 | 5.65 | <13 | PASS |
| | | 12 | 6 | 5.77 | <13 | PASS |
| | | 12 | 13 | 5.86 | <13 | PASS |
| | | 25 | 0 | 5.9 | <13 | PASS |
| | HCH | 1 | 0 | 4.29 | <13 | PASS |
| | | 1 | 12 | 4.23 | <13 | PASS |
| | | 1 | 24 | 4.39 | <13 | PASS |
| | | 12 | 0 | 4.73 | <13 | PASS |
| | | 12 | 6 | 4.66 | <13 | PASS |
| | | 12 | 13 | 4.8 | <13 | PASS |

| | | | | | | |
|-------|-----|----|----|------|-----|------|
| | | 25 | 0 | 5.16 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 4.45 | <13 | PASS |
| | | 1 | 12 | 4.17 | <13 | PASS |
| | | 1 | 24 | 4.11 | <13 | PASS |
| | | 12 | 0 | 4.79 | <13 | PASS |
| | | 12 | 6 | 4.53 | <13 | PASS |
| | | 12 | 13 | 4.51 | <13 | PASS |
| | | 25 | 0 | 5.15 | <13 | PASS |
| | MCH | 1 | 0 | 5.2 | <13 | PASS |
| | | 1 | 12 | 5.53 | <13 | PASS |
| | | 1 | 24 | 5.57 | <13 | PASS |
| | | 12 | 0 | 5.86 | <13 | PASS |
| | | 12 | 6 | 5.98 | <13 | PASS |
| | | 12 | 13 | 6.12 | <13 | PASS |
| | | 25 | 0 | 6.24 | <13 | PASS |
| | HCH | 1 | 0 | 4.49 | <13 | PASS |
| | | 1 | 12 | 4.47 | <13 | PASS |
| | | 1 | 24 | 4.56 | <13 | PASS |
| | | 12 | 0 | 4.93 | <13 | PASS |
| | | 12 | 6 | 4.84 | <13 | PASS |
| | | 12 | 13 | 4.97 | <13 | PASS |
| | | 25 | 0 | 5.41 | <13 | PASS |

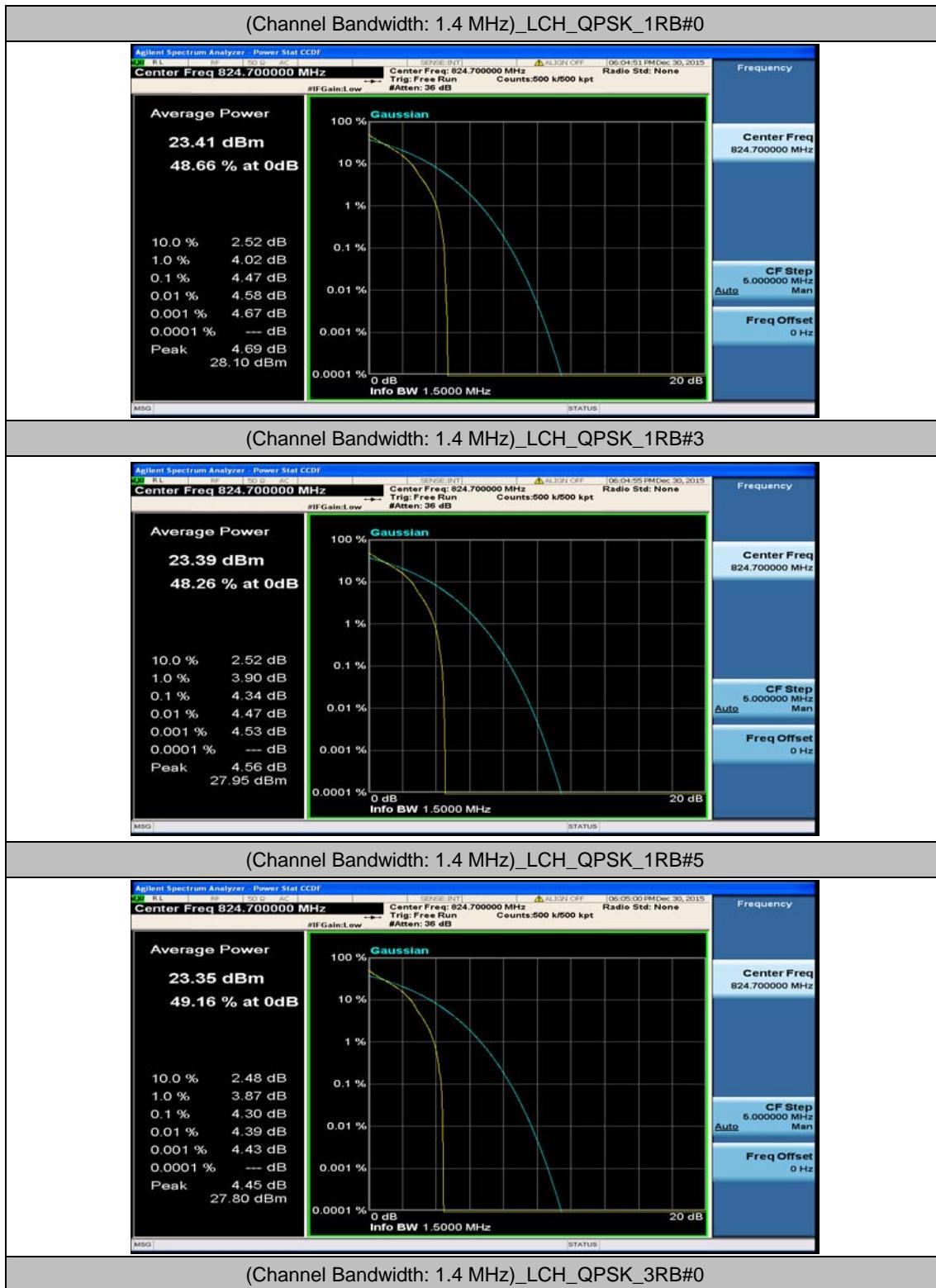
Channel Bandwidth: 10 MHz

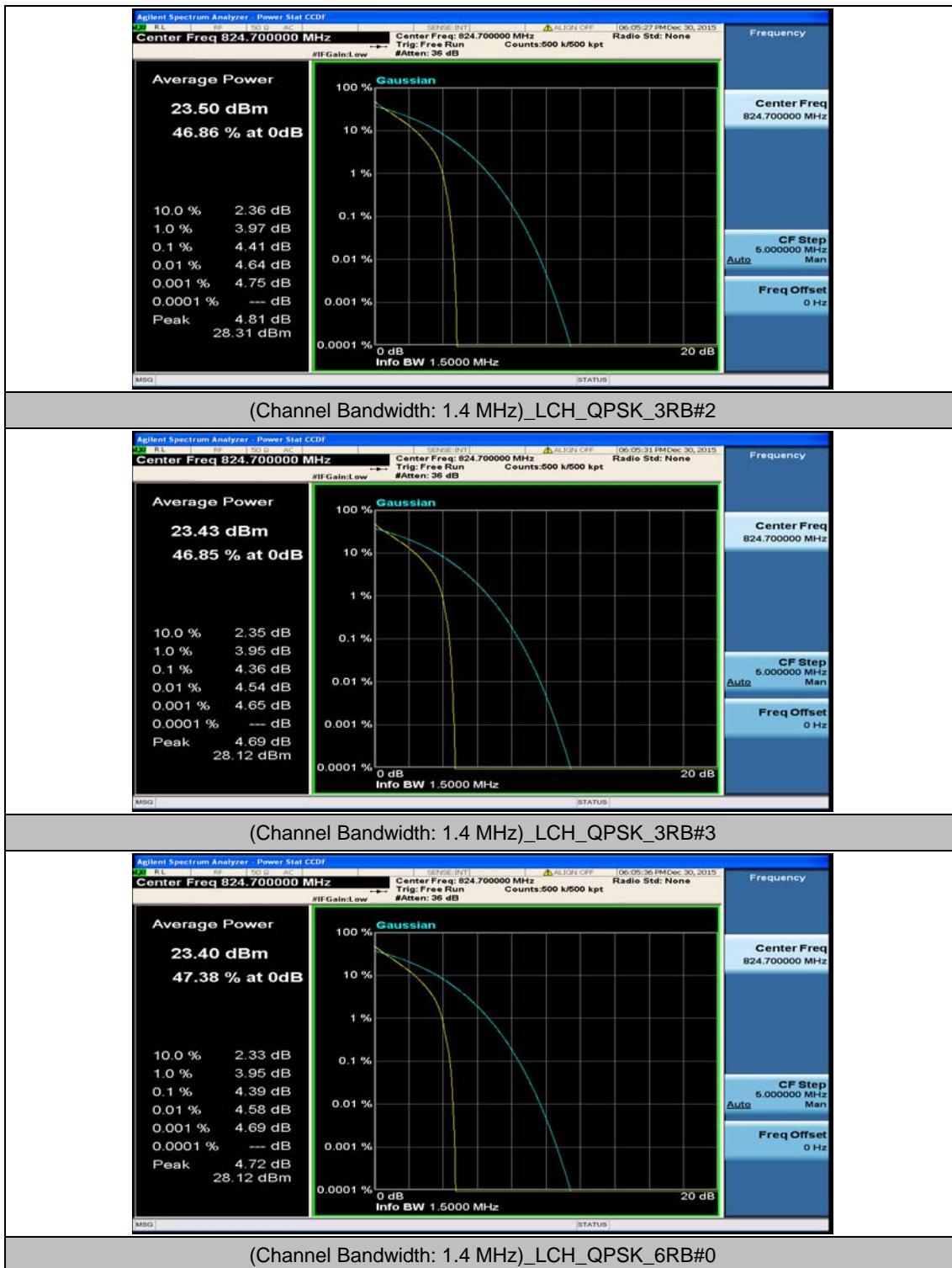
| Channel Bandwidth: 10 MHz | | | | | | |
|---------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 4.30 | <13 | PASS |
| | | 1 | 24 | 3.90 | <13 | PASS |
| | | 1 | 49 | 4.85 | <13 | PASS |
| | | 25 | 0 | 4.68 | <13 | PASS |
| | | 25 | 12 | 4.44 | <13 | PASS |
| | | 25 | 25 | 4.86 | <13 | PASS |
| | | 50 | 0 | 5.15 | <13 | PASS |
| | MCH | 1 | 0 | 4.50 | <13 | PASS |
| | | 1 | 24 | 5.42 | <13 | PASS |
| | | 1 | 49 | 5.07 | <13 | PASS |
| | | 25 | 0 | 5.56 | <13 | PASS |
| | | 25 | 12 | 5.83 | <13 | PASS |
| | | 25 | 25 | 5.82 | <13 | PASS |
| | | 50 | 0 | 5.77 | <13 | PASS |

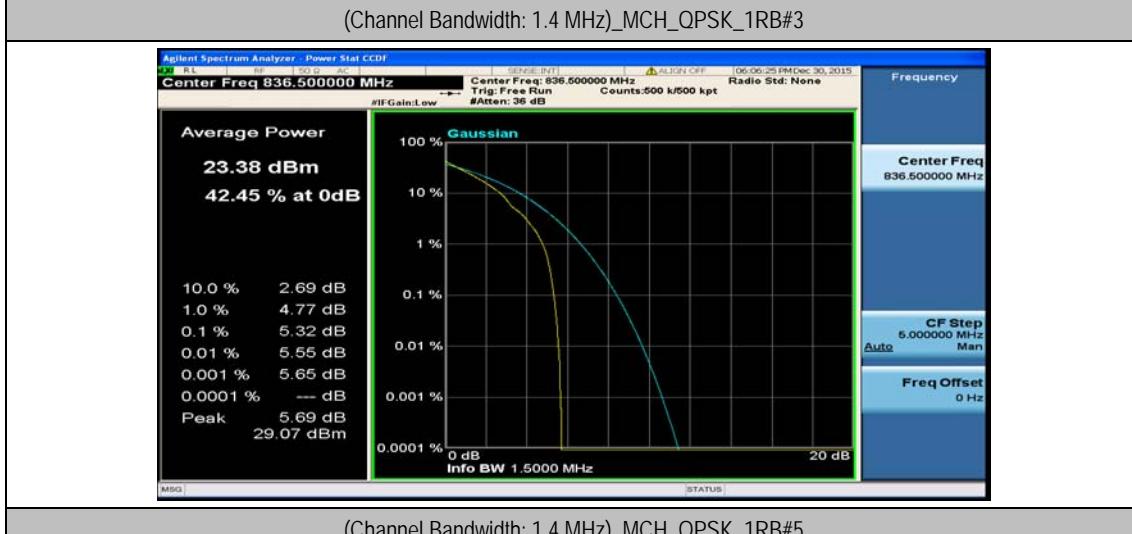
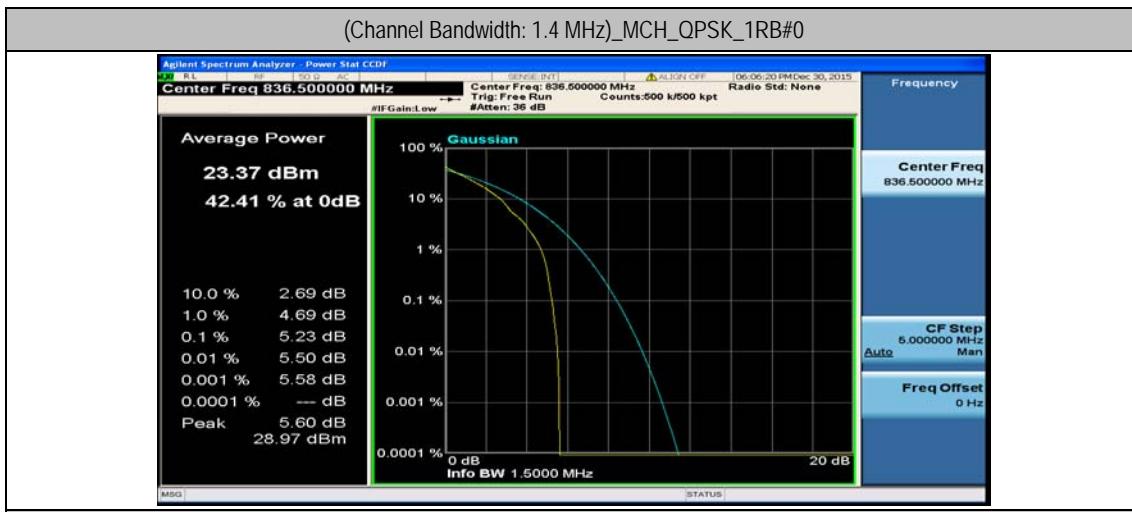
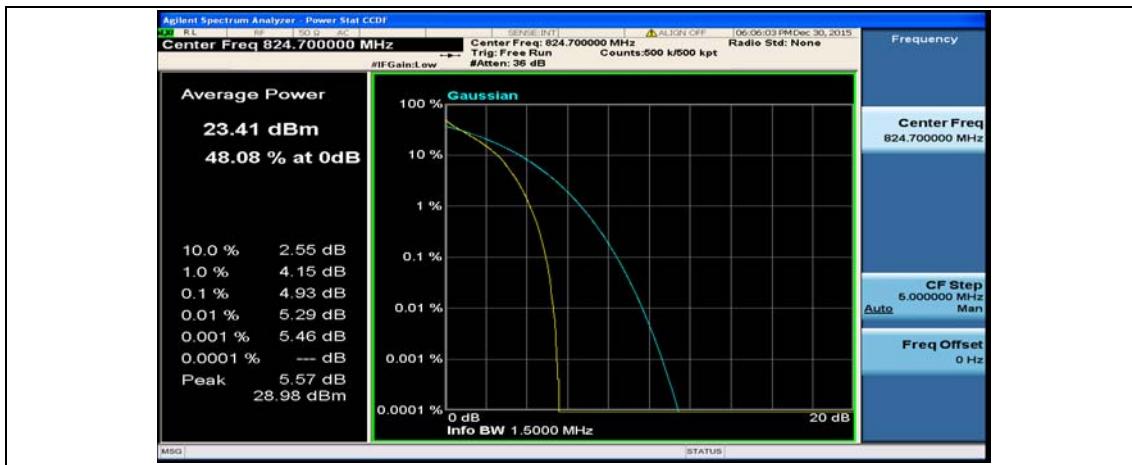
| | | | | | | |
|-------|-----|----|----|------|-----|------|
| | | 1 | 0 | 5.31 | <13 | PASS |
| HCH | LCH | 1 | 24 | 4.39 | <13 | PASS |
| | | 1 | 49 | 4.43 | <13 | PASS |
| | | 25 | 0 | 5.37 | <13 | PASS |
| | | 25 | 12 | 4.97 | <13 | PASS |
| | | 25 | 25 | 4.93 | <13 | PASS |
| | | 50 | 0 | 5.40 | <13 | PASS |
| | | 1 | 0 | 4.40 | <13 | PASS |
| 16QAM | MCH | 1 | 24 | 4.41 | <13 | PASS |
| | | 1 | 49 | 5.08 | <13 | PASS |
| | | 25 | 0 | 4.27 | <13 | PASS |
| | | 25 | 12 | 4.65 | <13 | PASS |
| | | 25 | 25 | 5.16 | <13 | PASS |
| | | 50 | 0 | 5.45 | <13 | PASS |
| | | 1 | 0 | 4.69 | <13 | PASS |
| | HCH | 1 | 24 | 5.63 | <13 | PASS |
| | | 1 | 49 | 5.26 | <13 | PASS |
| | | 25 | 0 | 5.87 | <13 | PASS |
| | | 25 | 12 | 6.12 | <13 | PASS |
| | | 25 | 25 | 6.17 | <13 | PASS |
| | | 50 | 0 | 6.14 | <13 | PASS |
| | | 1 | 0 | 5.47 | <13 | PASS |

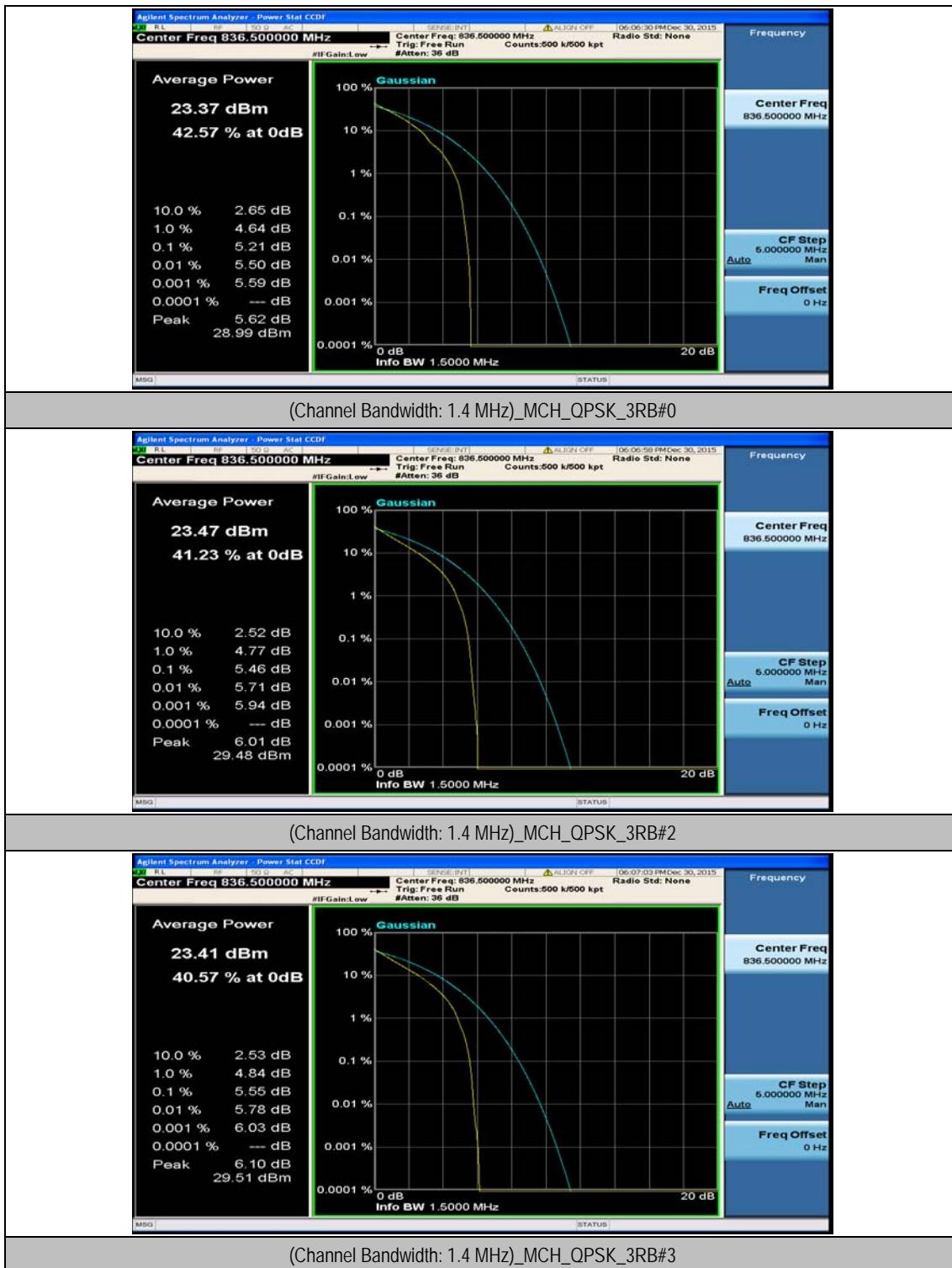
Test Graphs

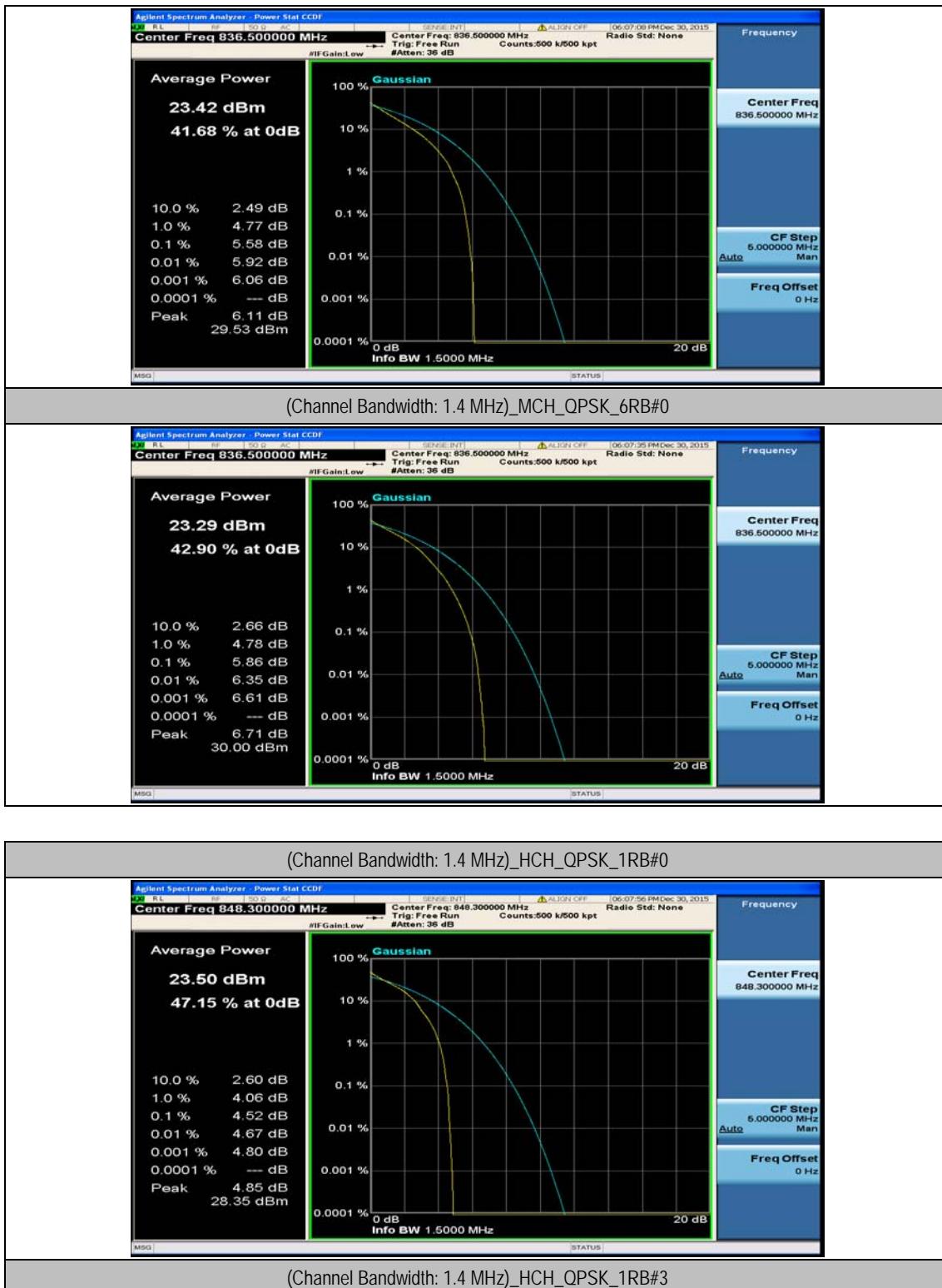
Channel Bandwidth: 1.4 MHz

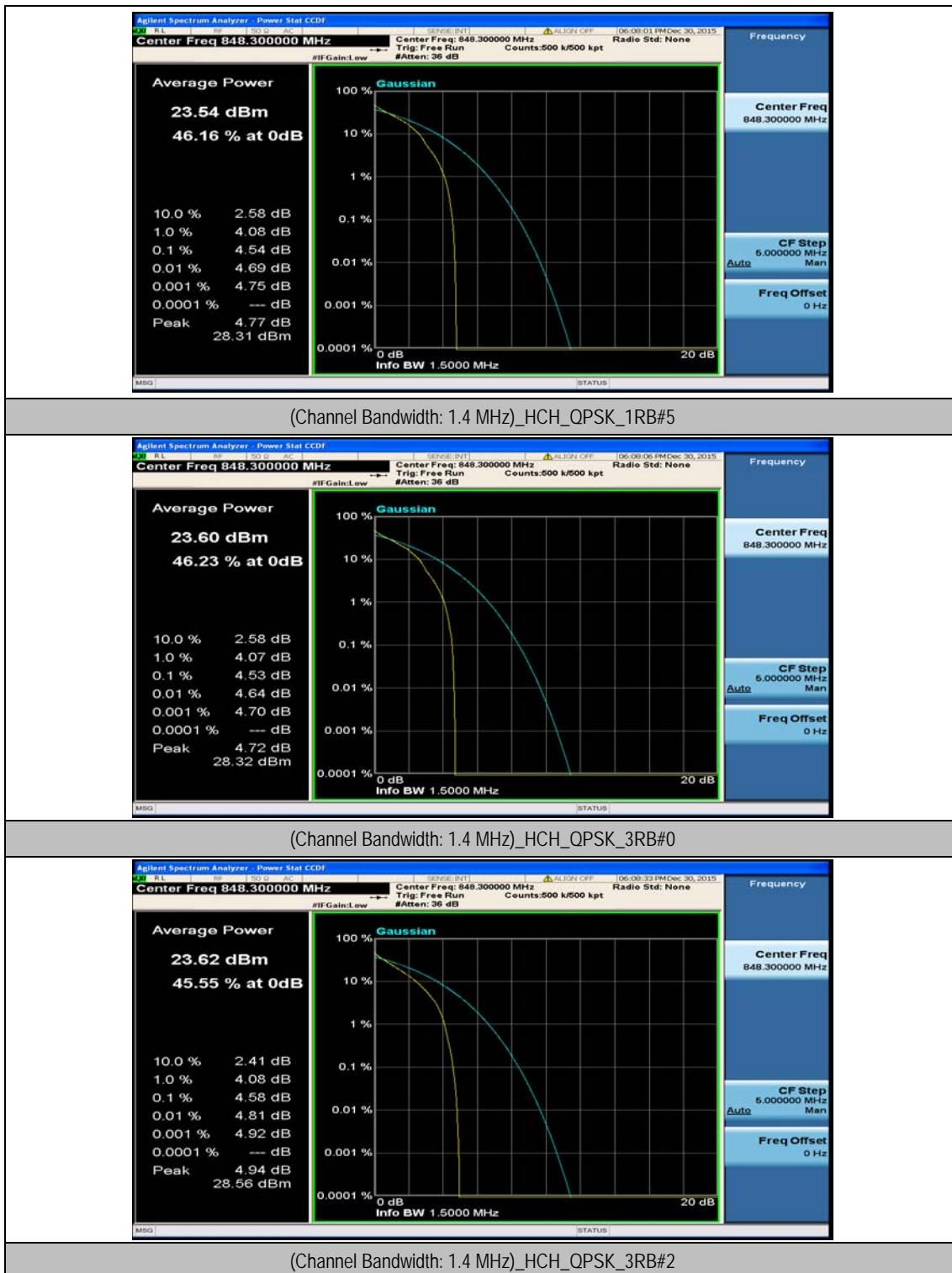


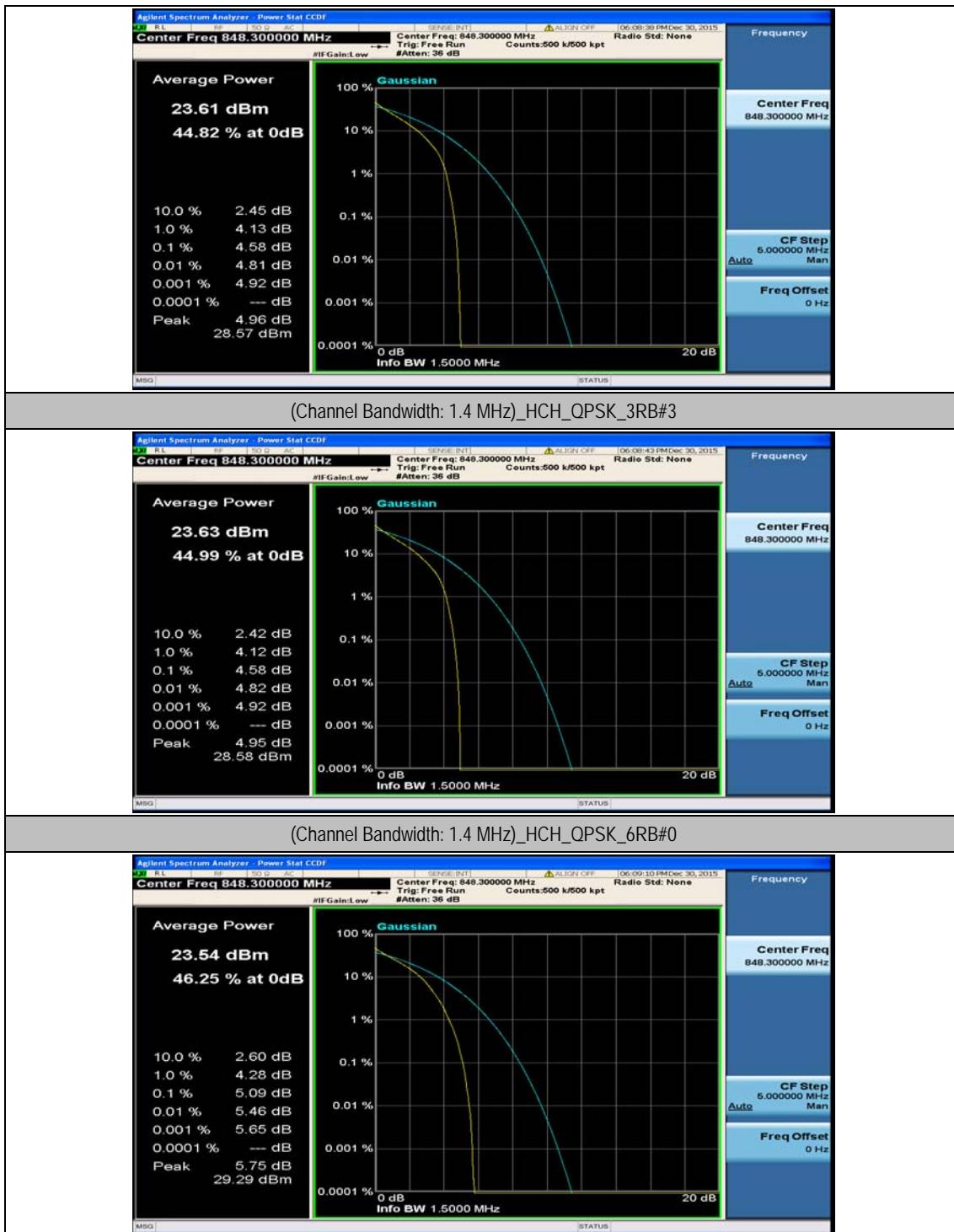


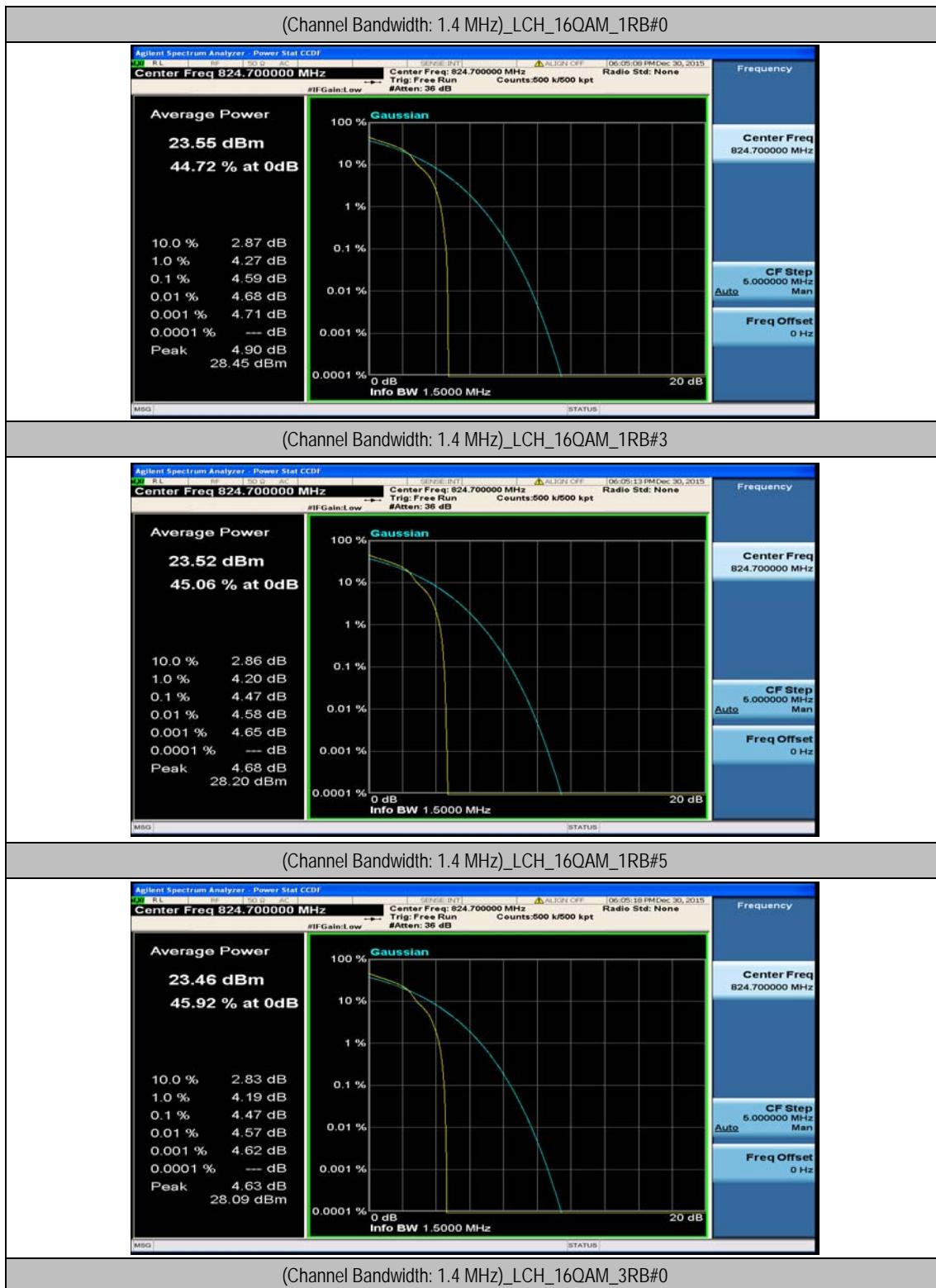


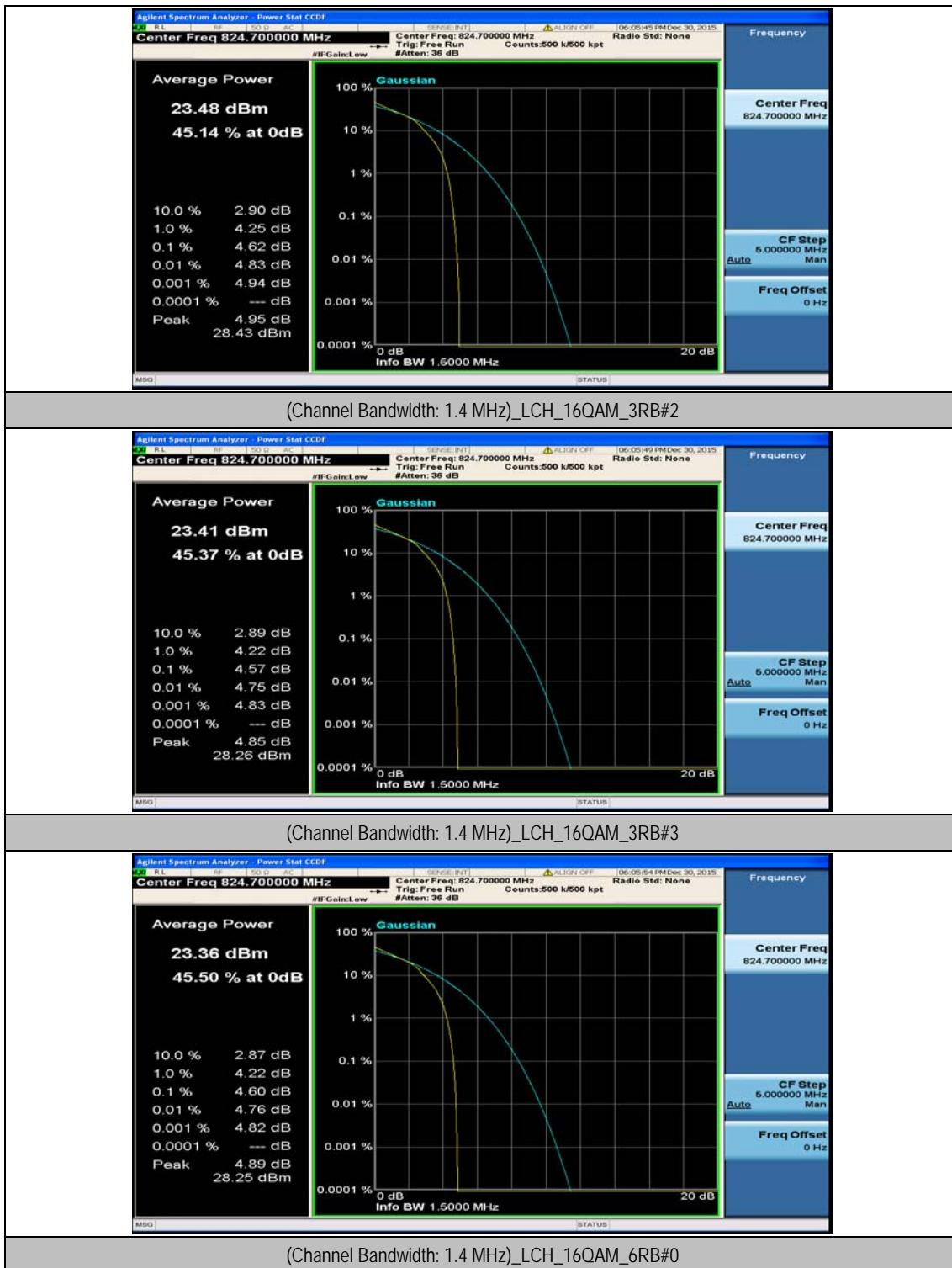


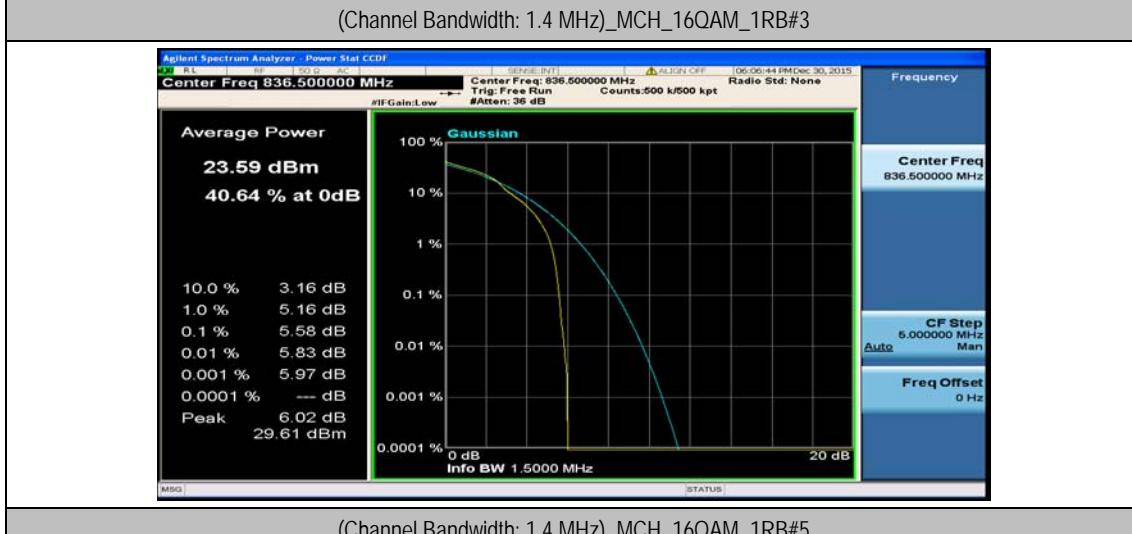
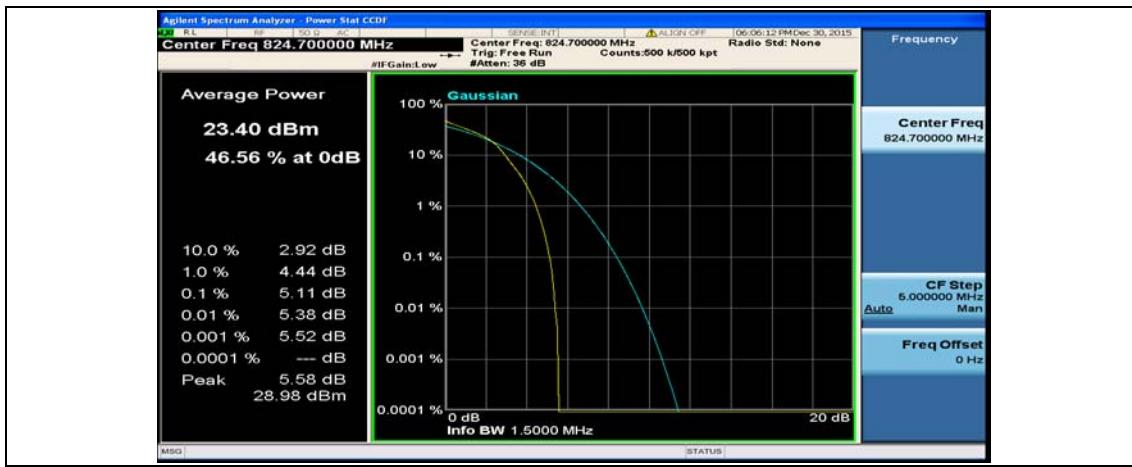


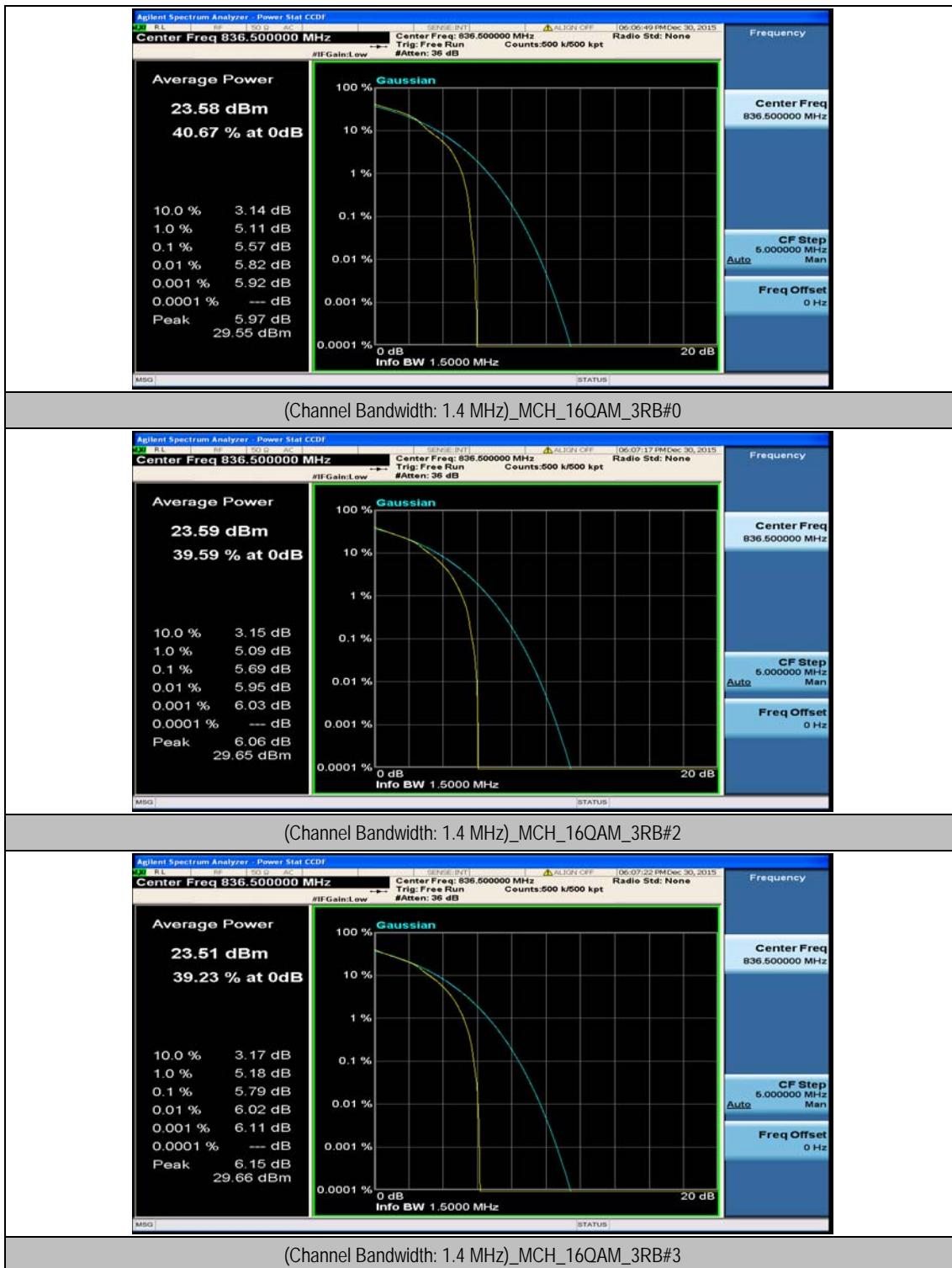


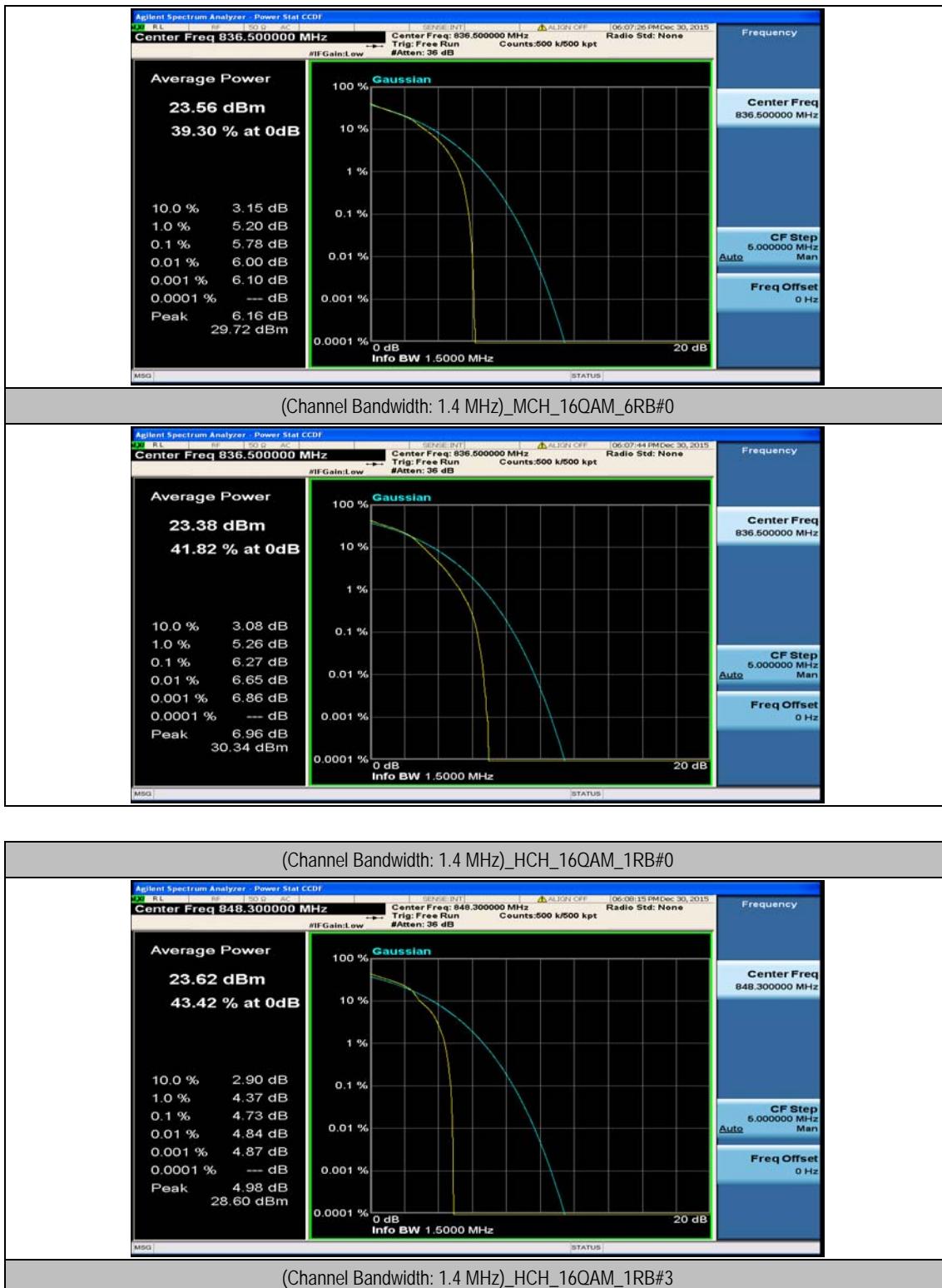


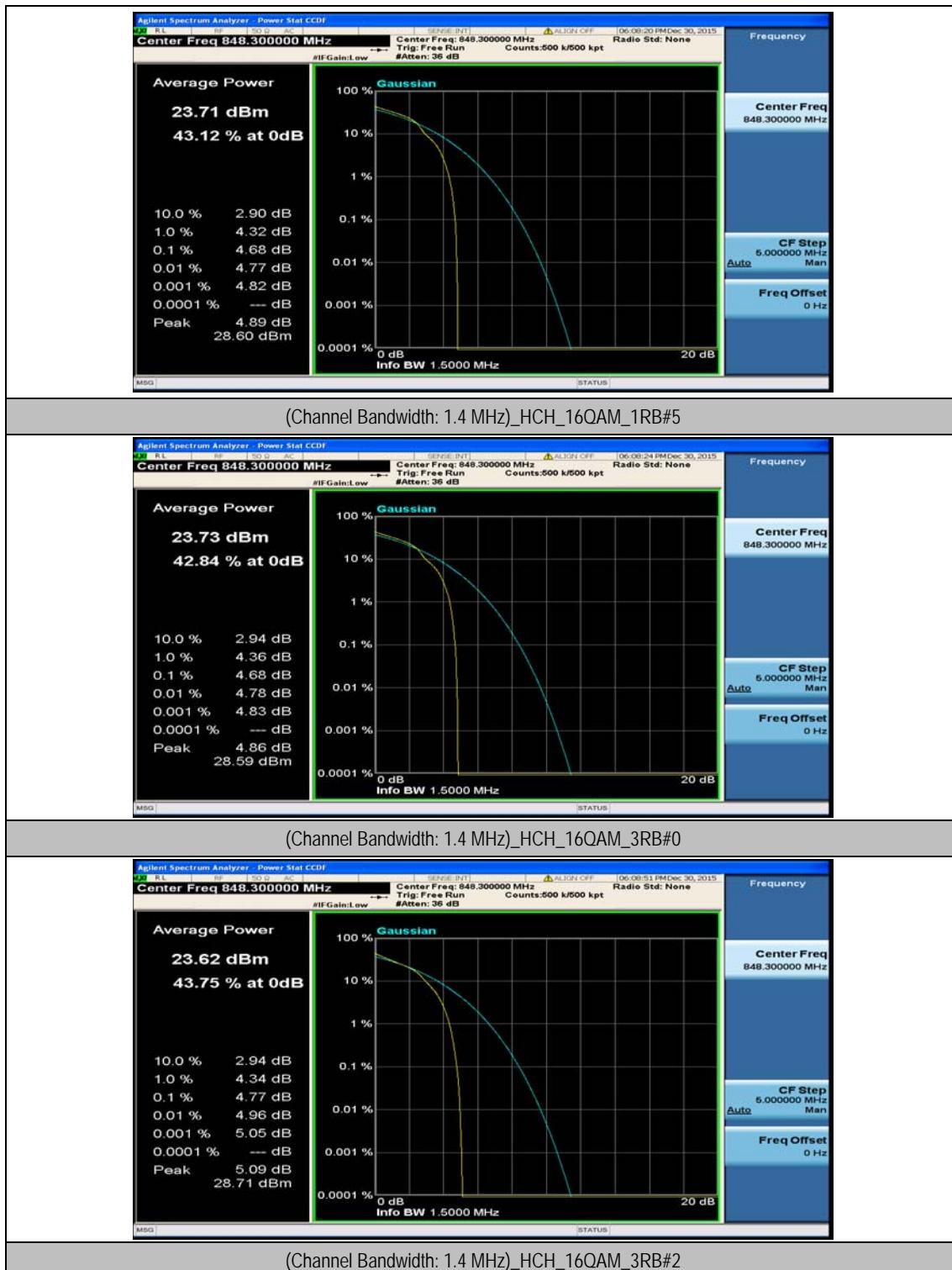


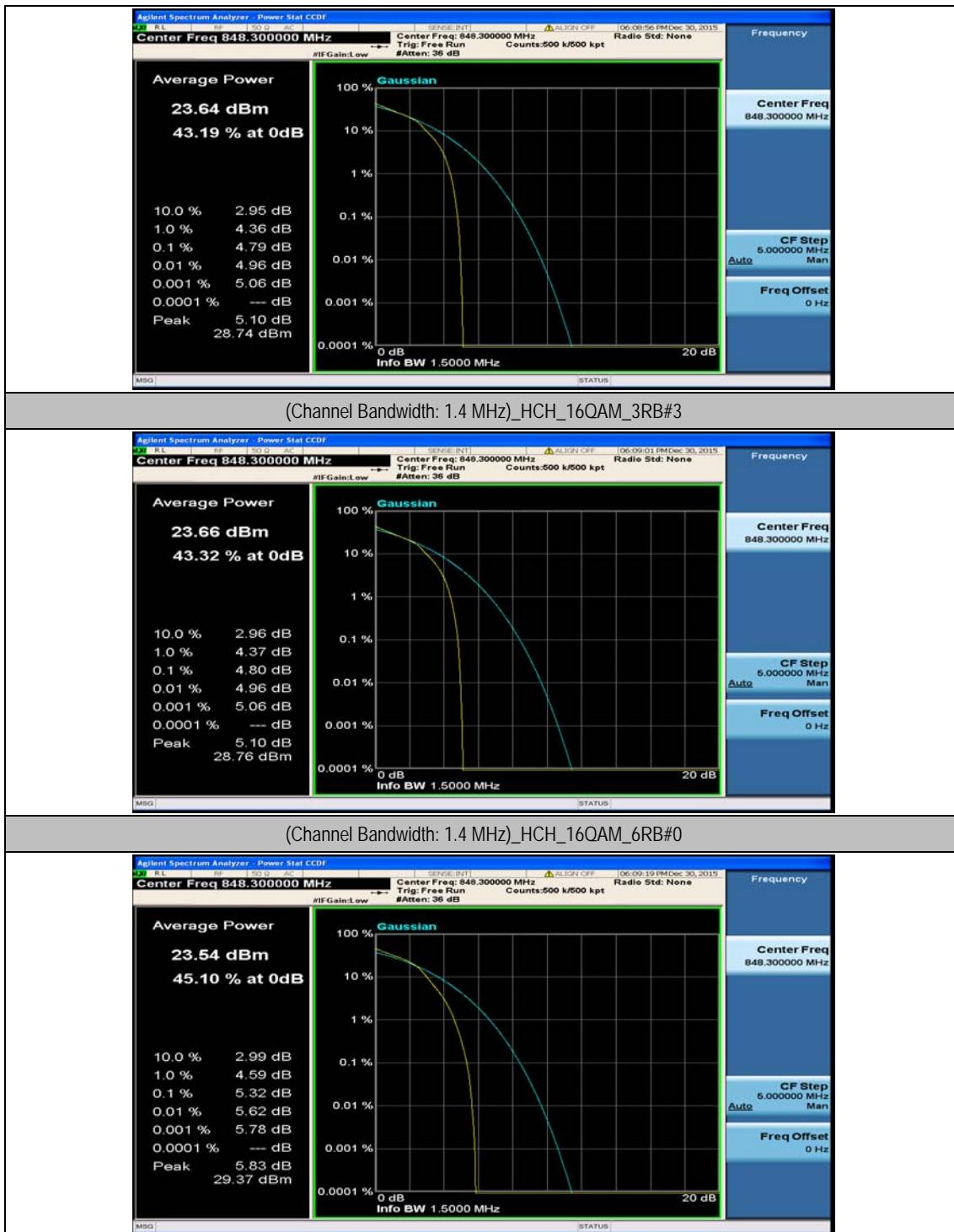




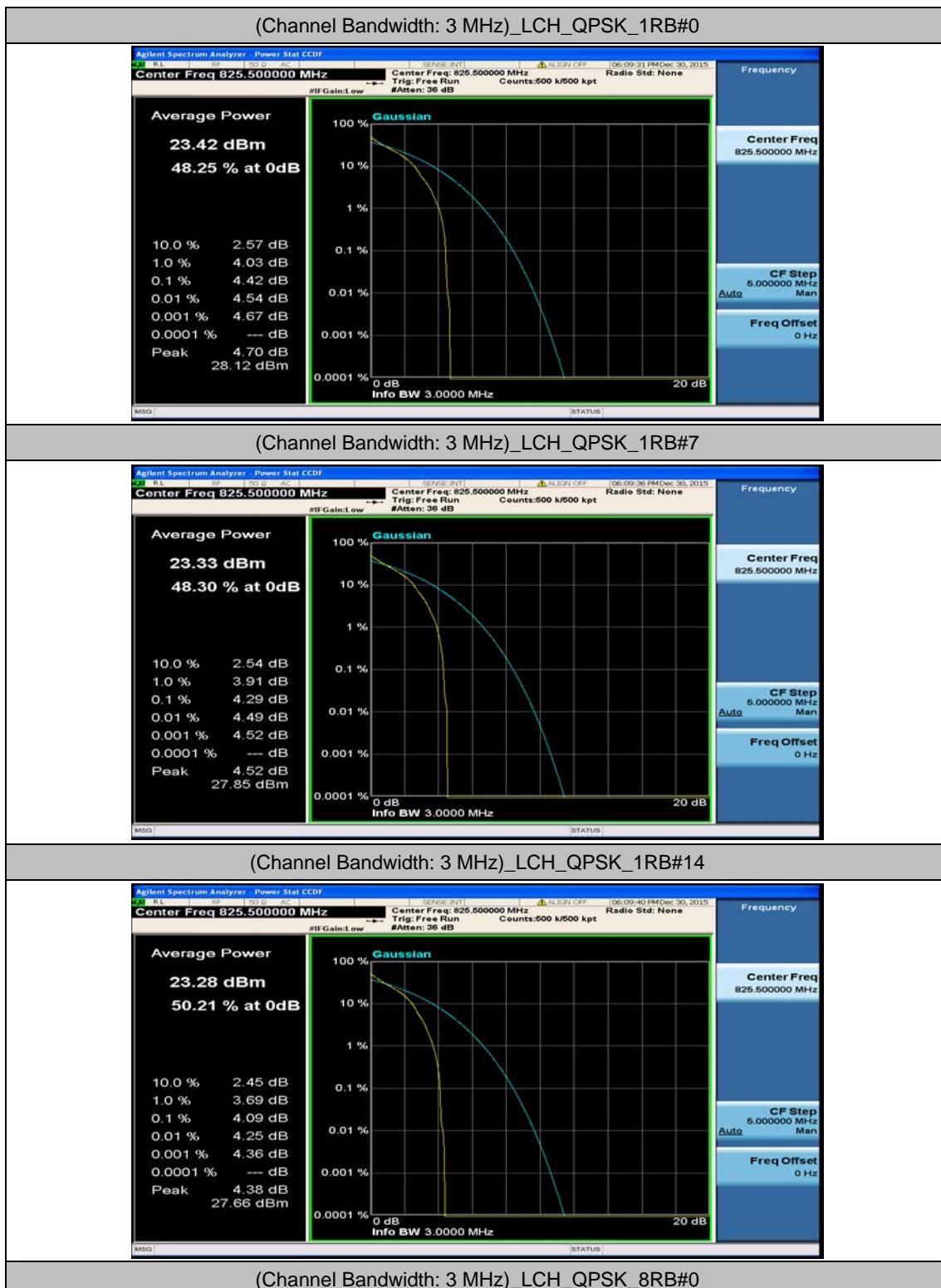


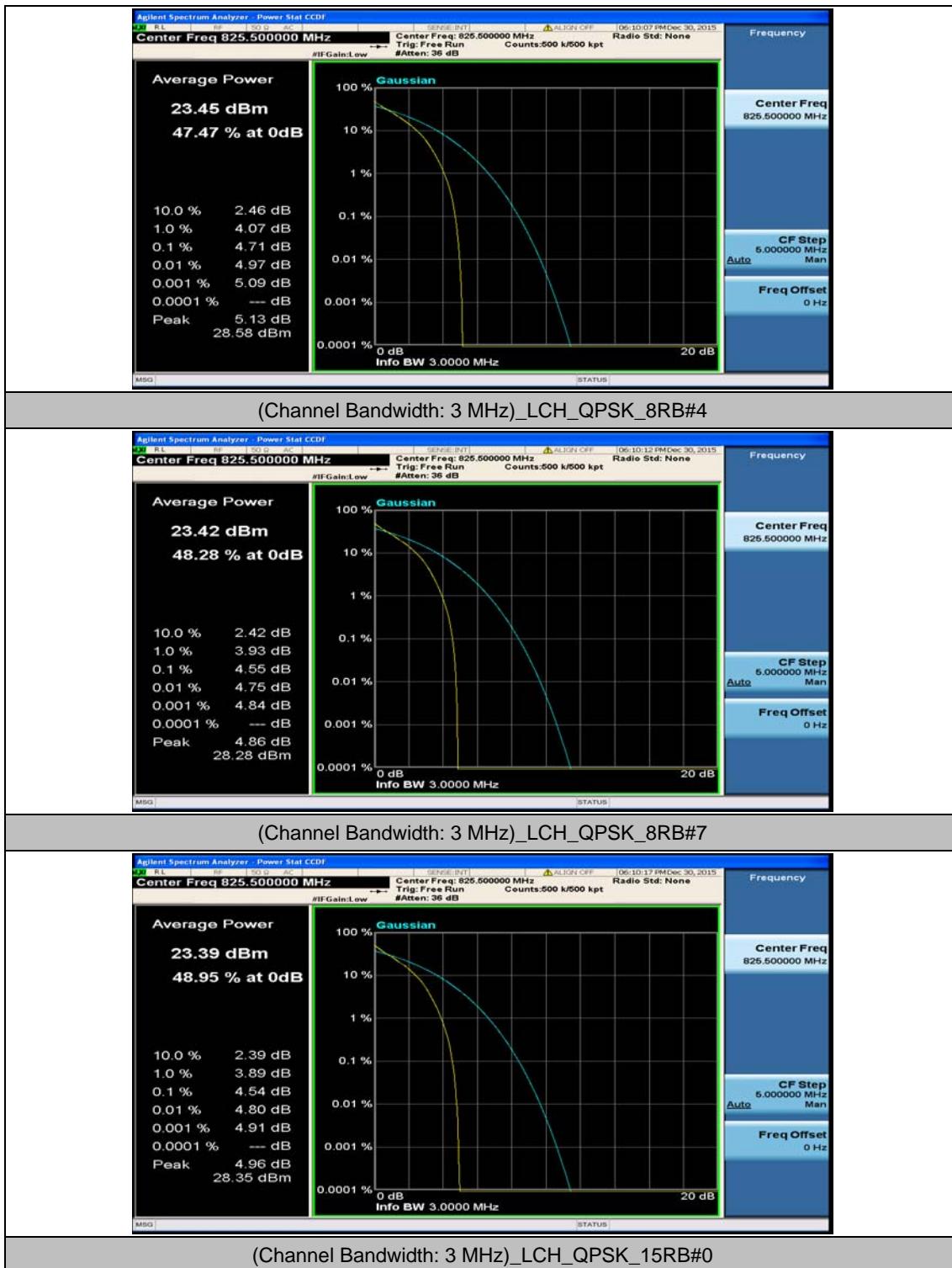


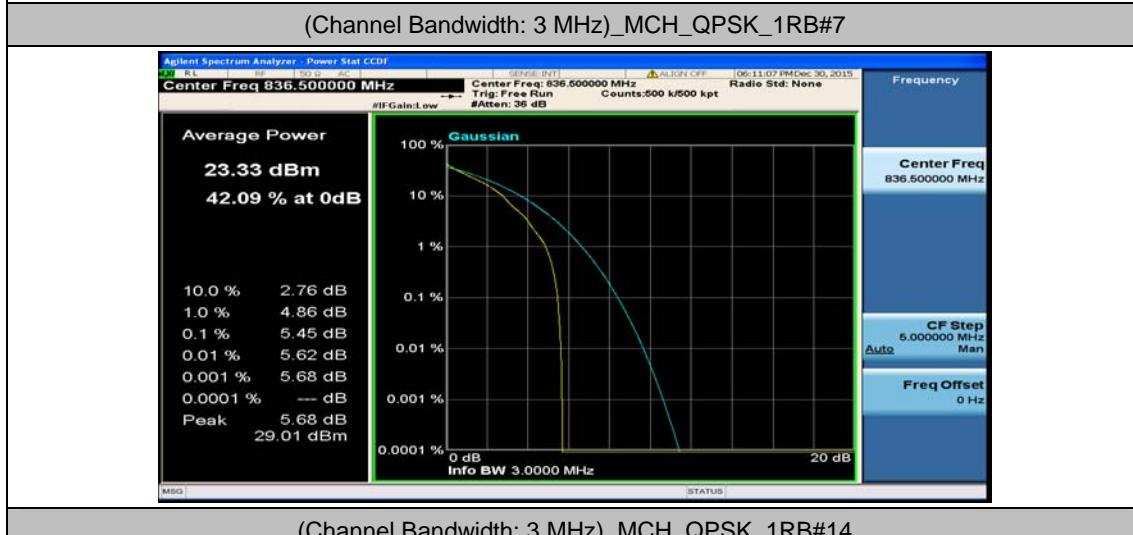
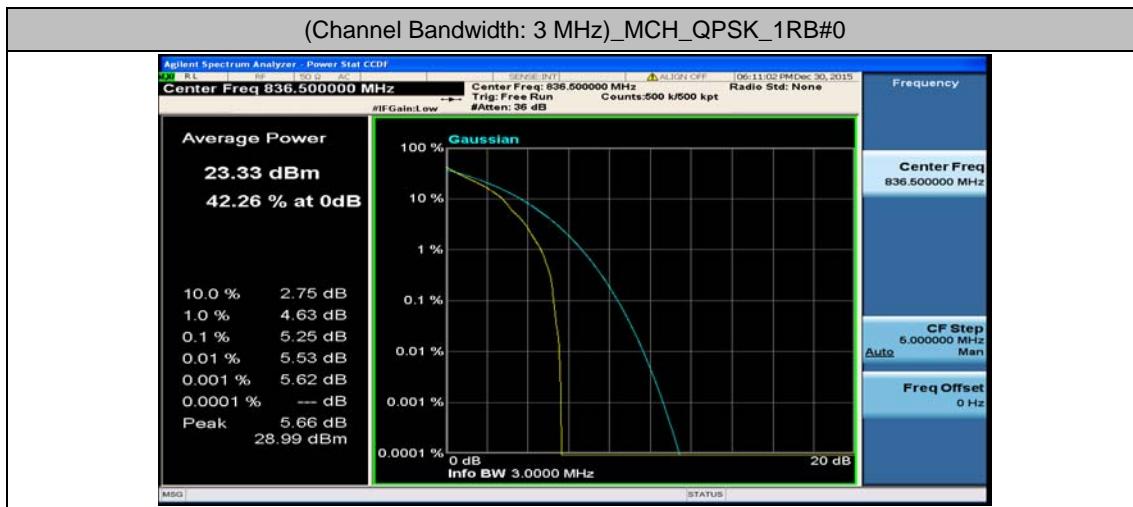




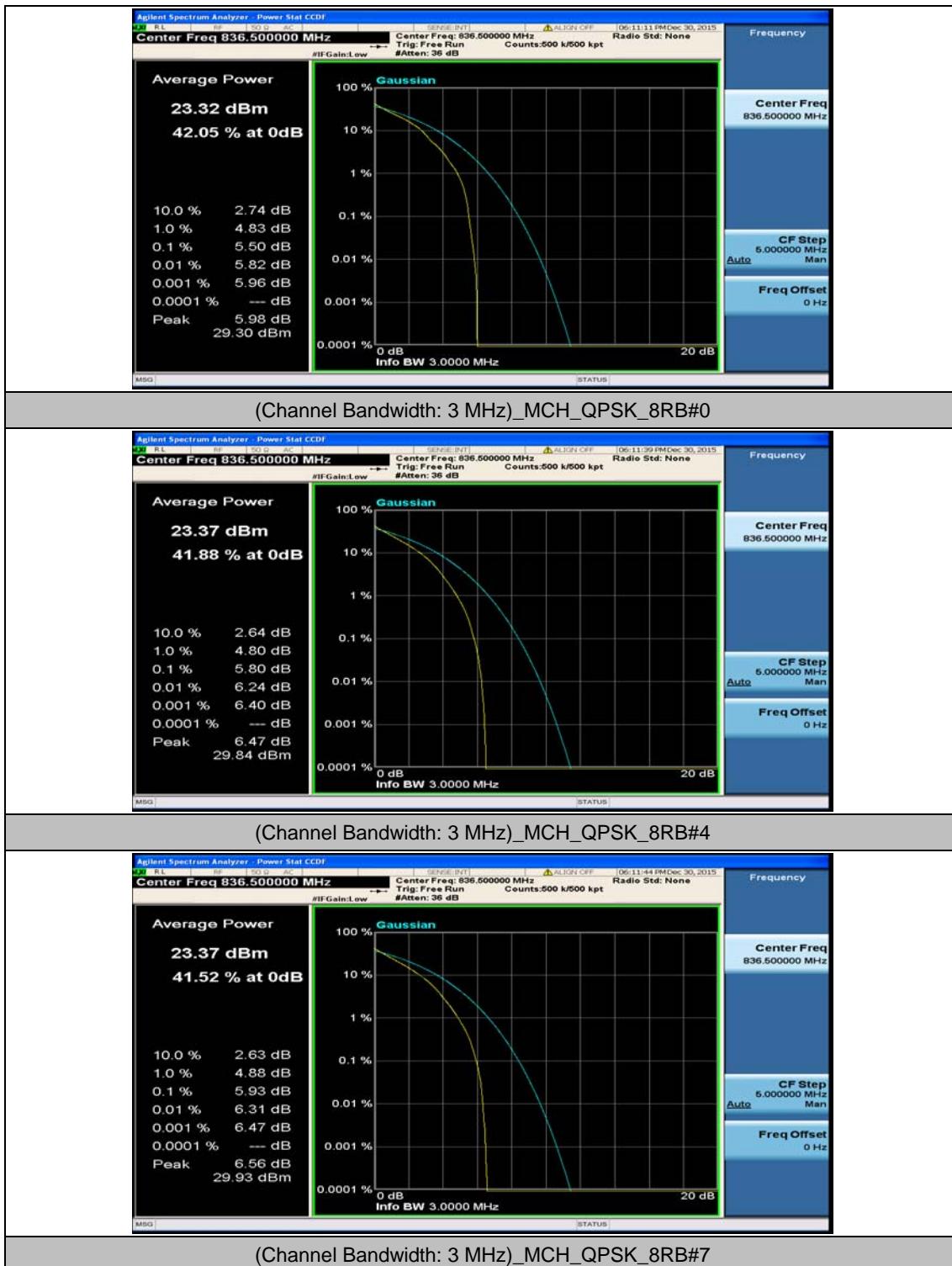
Channel Bandwidth: 3 MHz

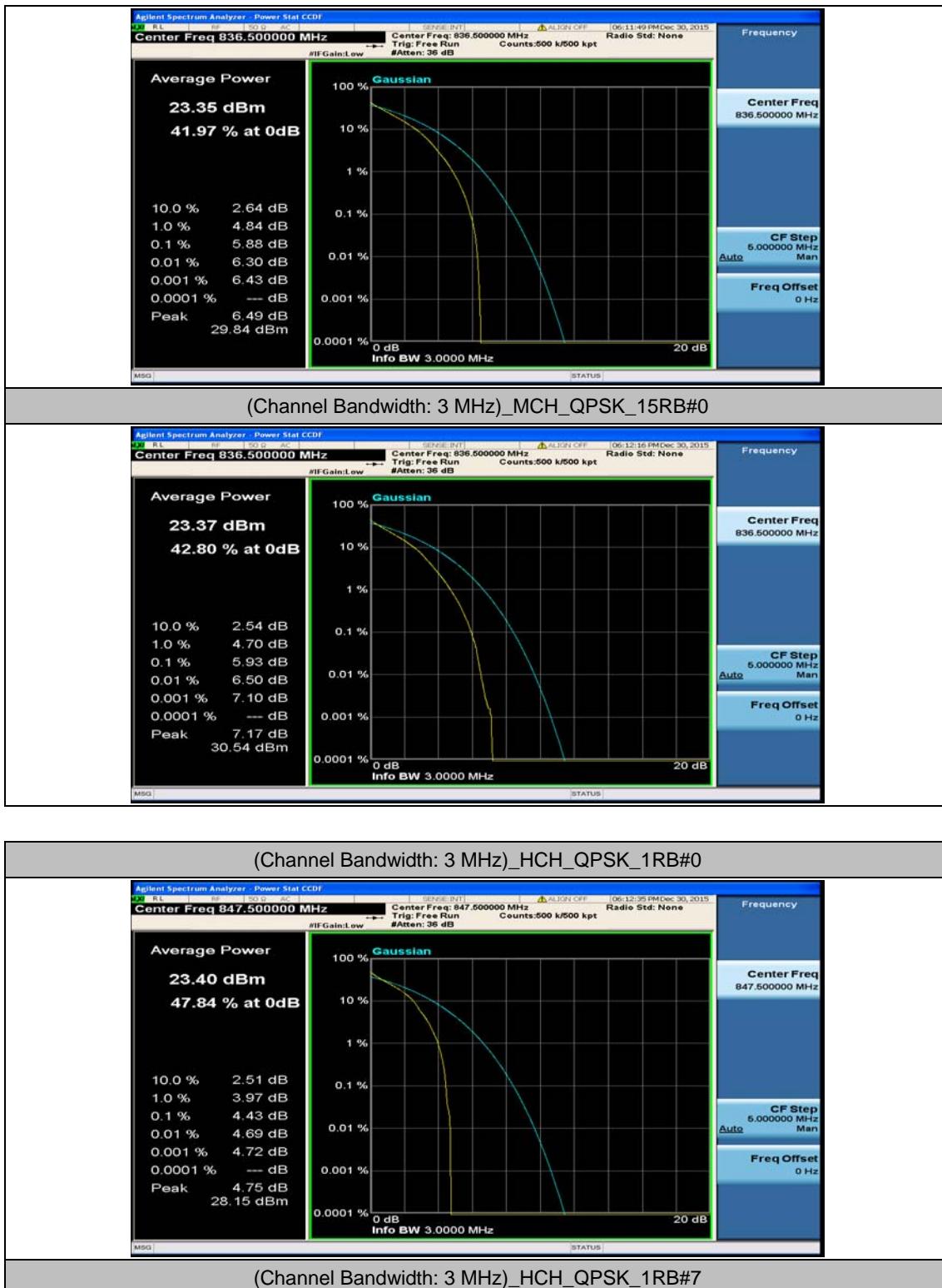


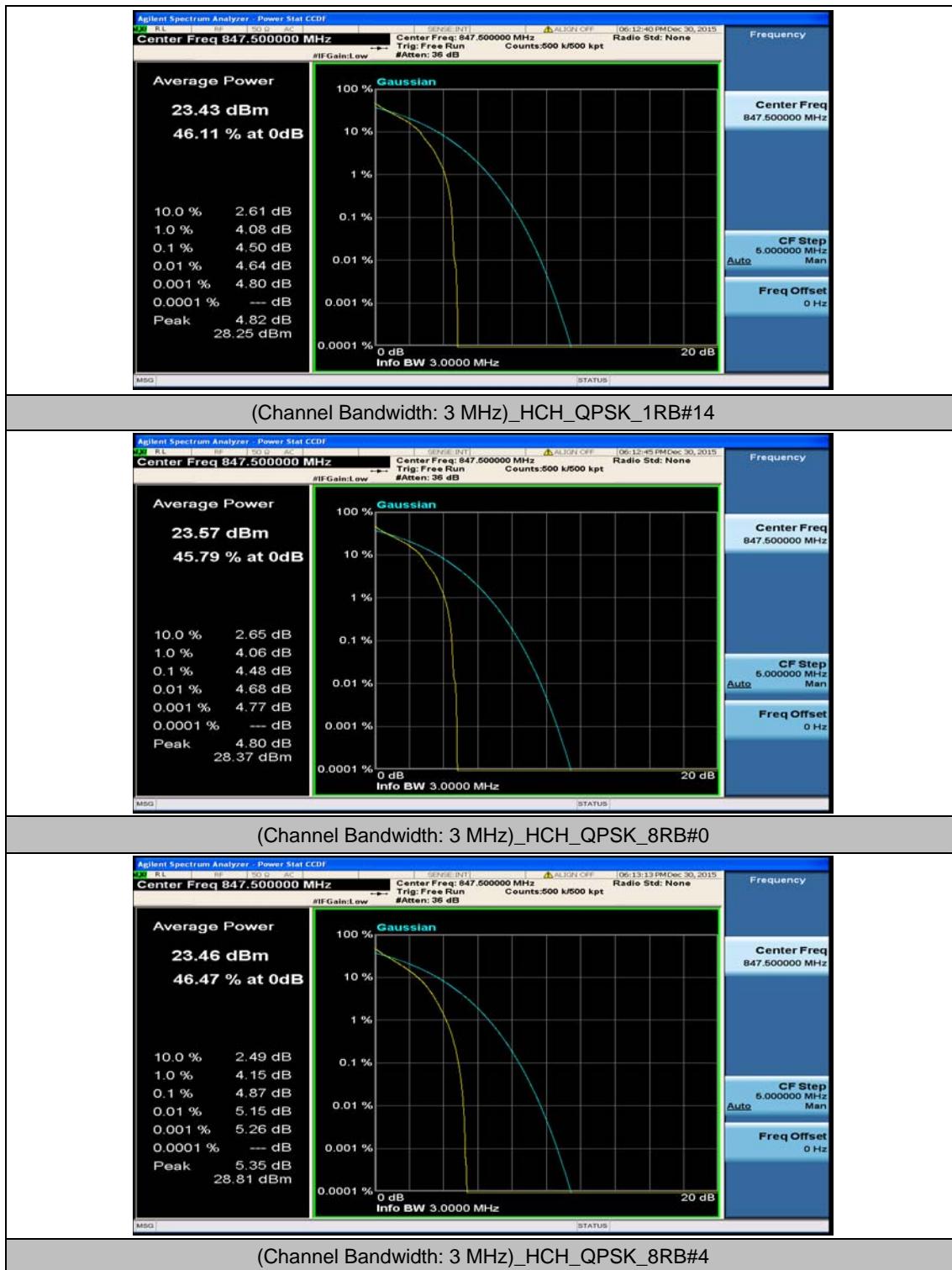


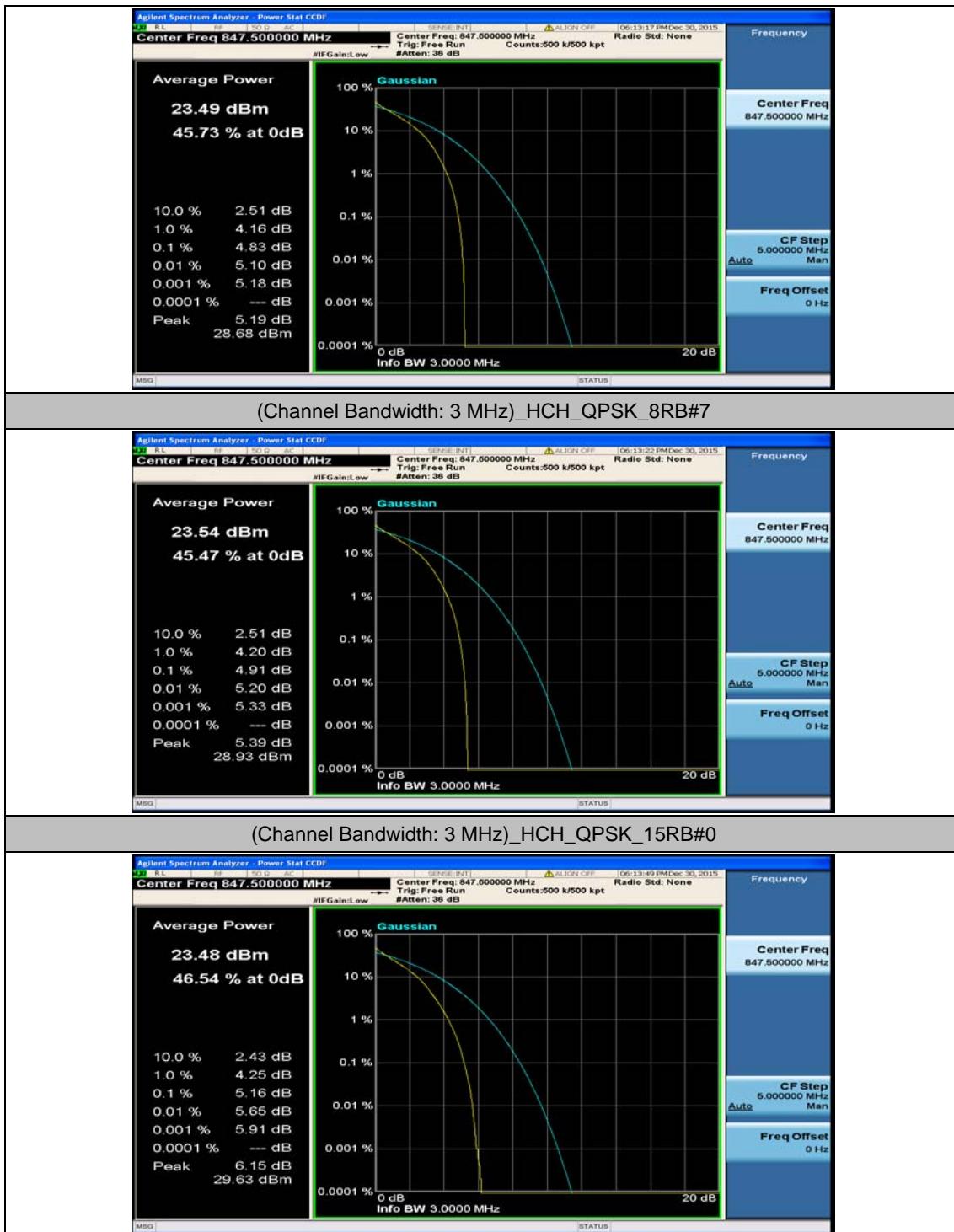


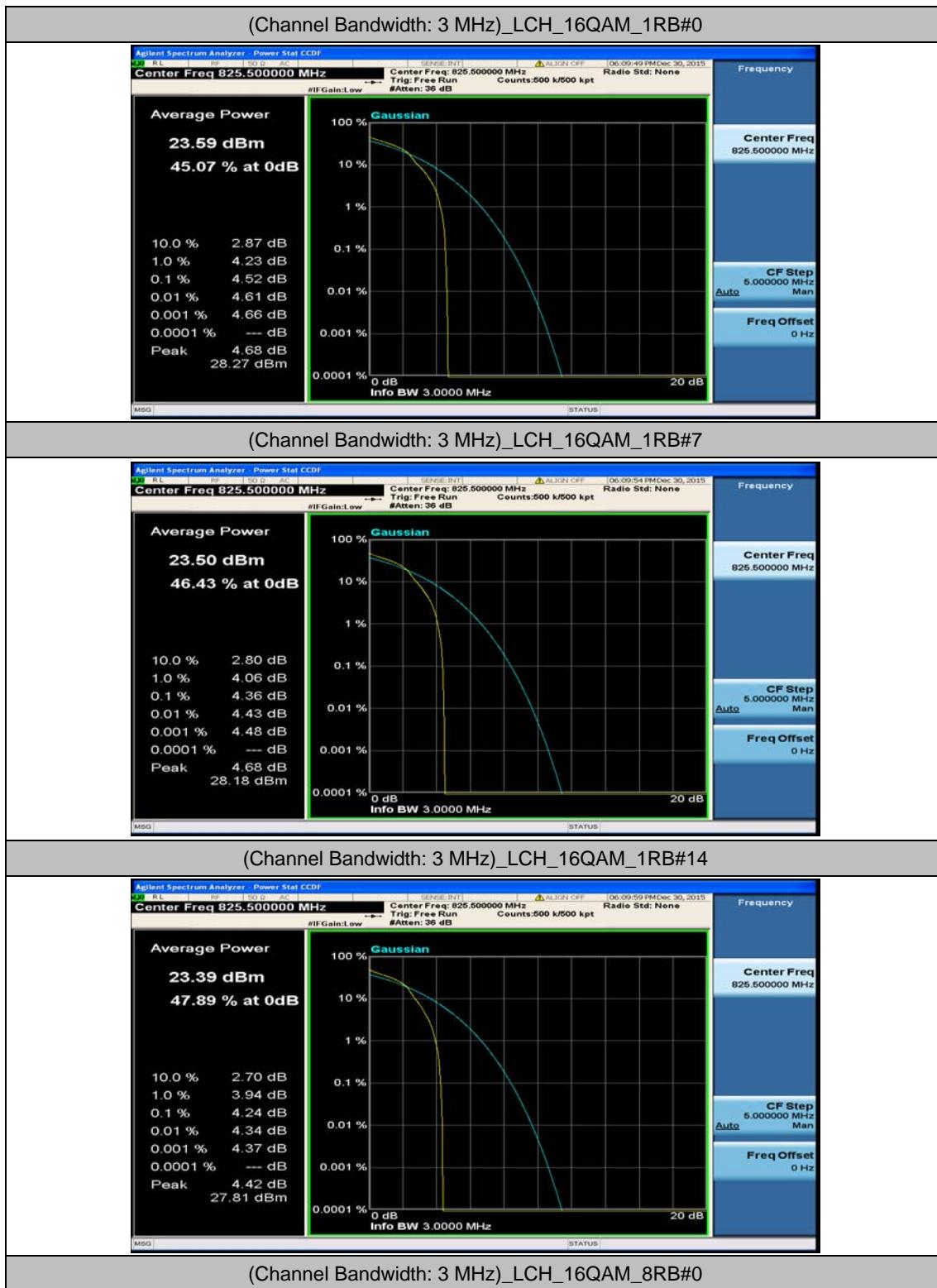
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

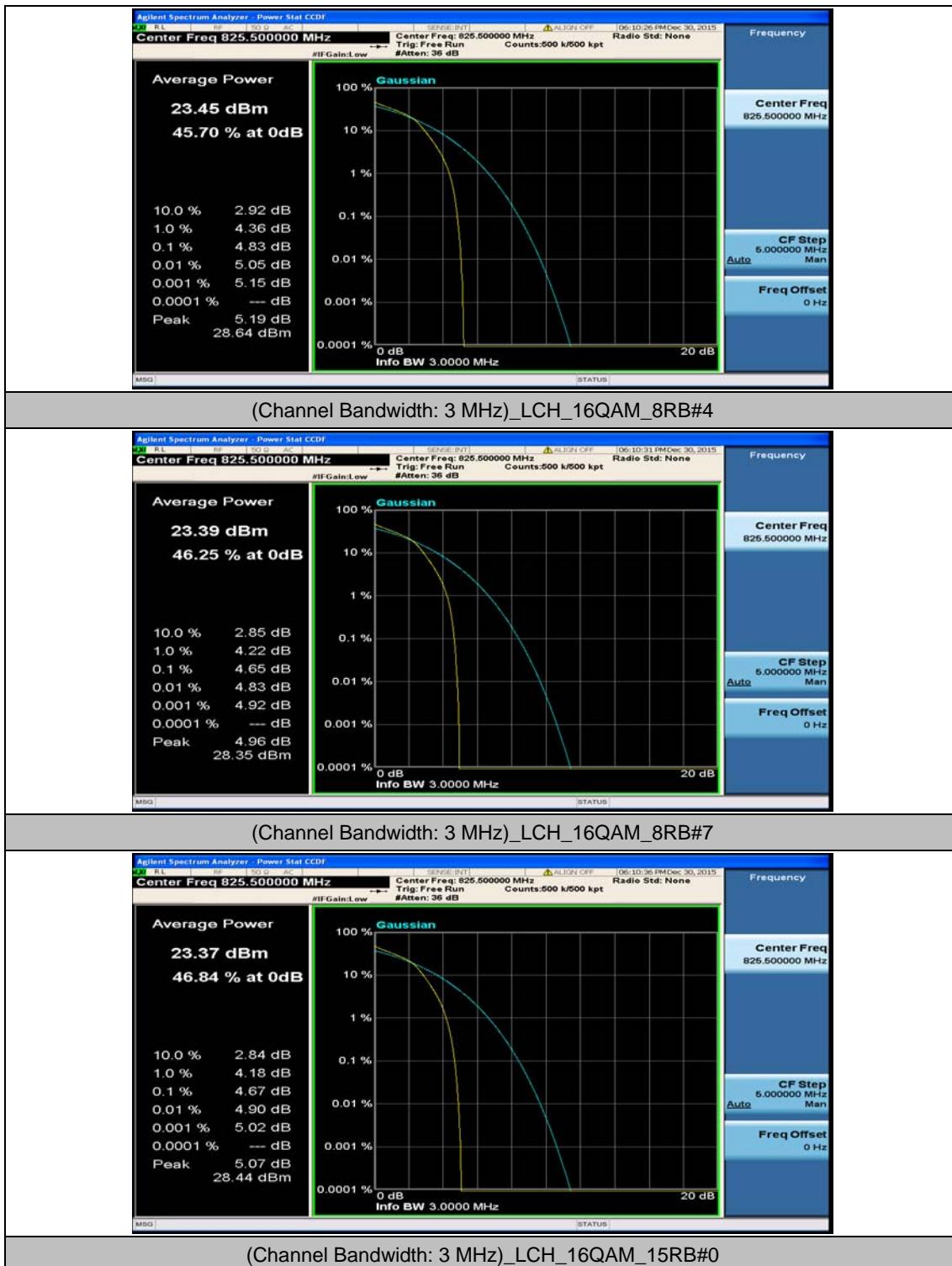


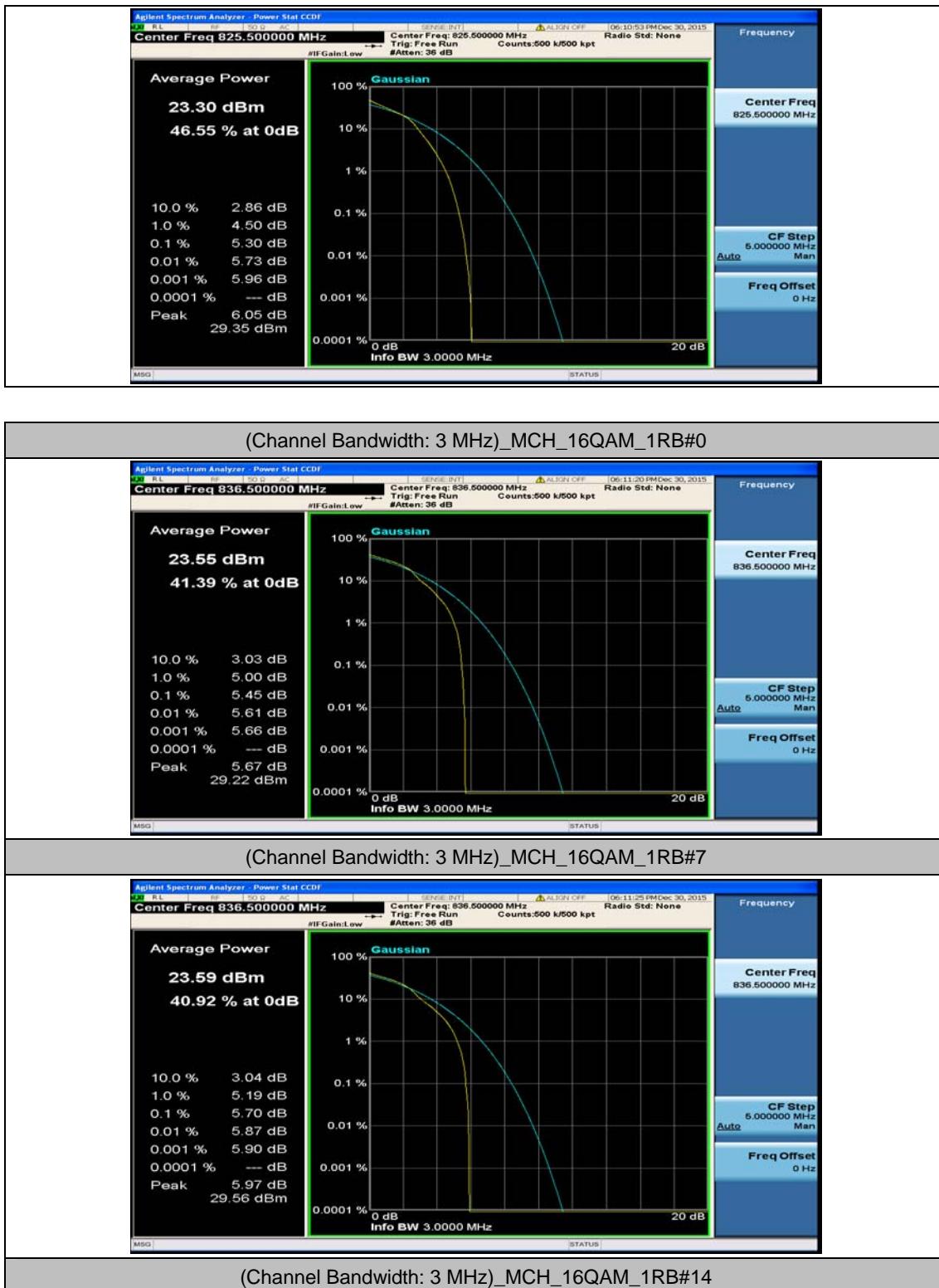


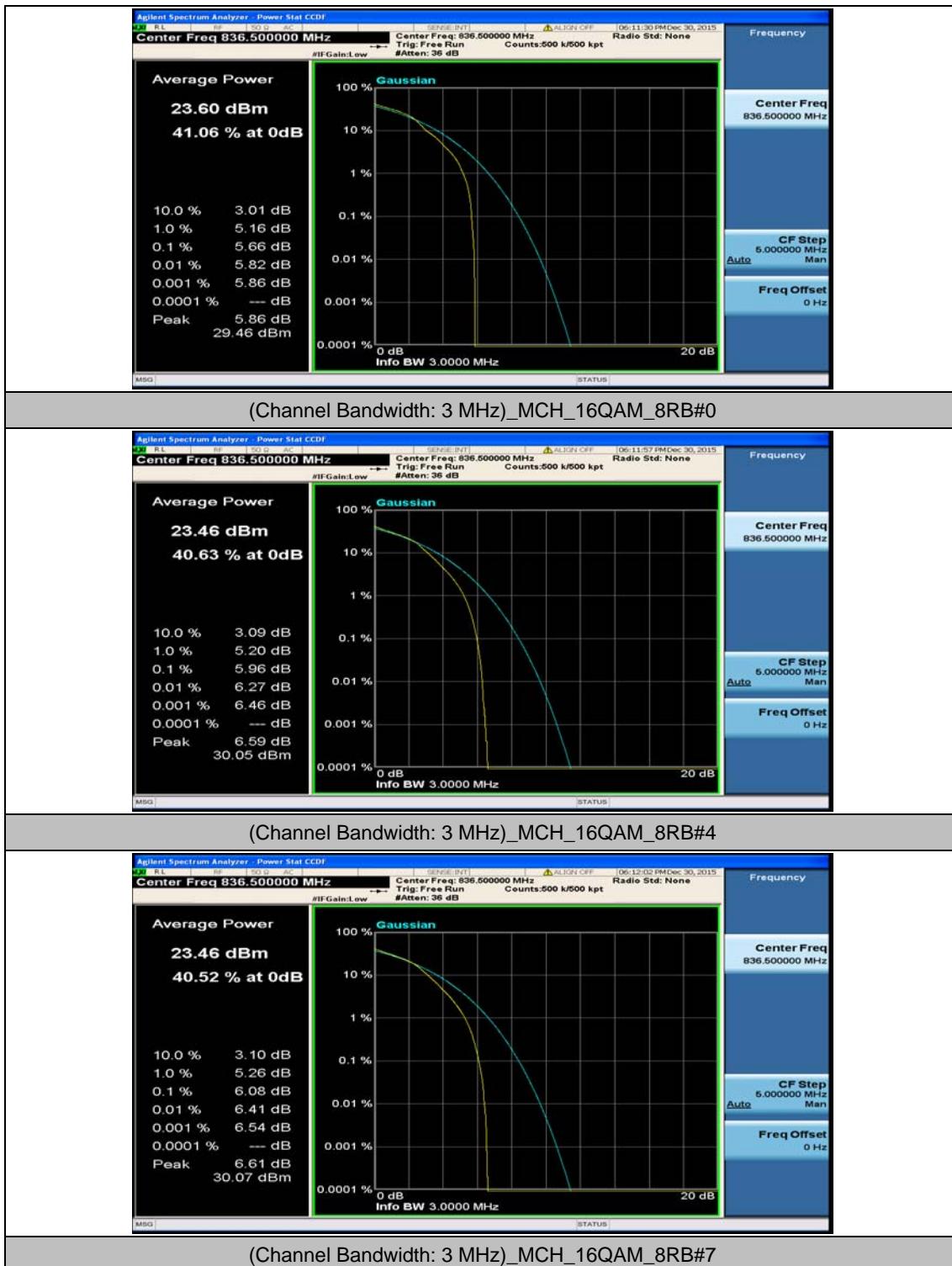


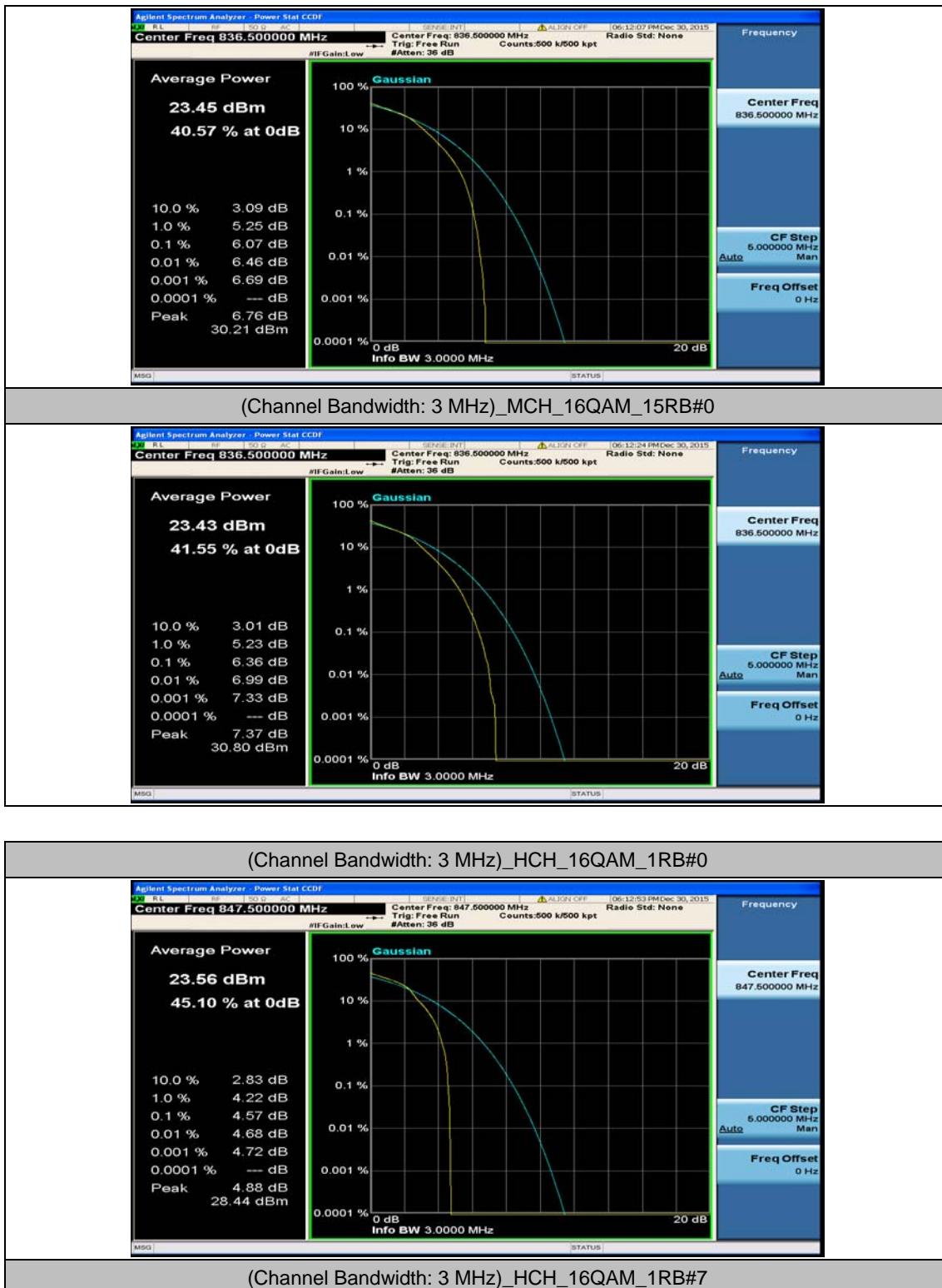


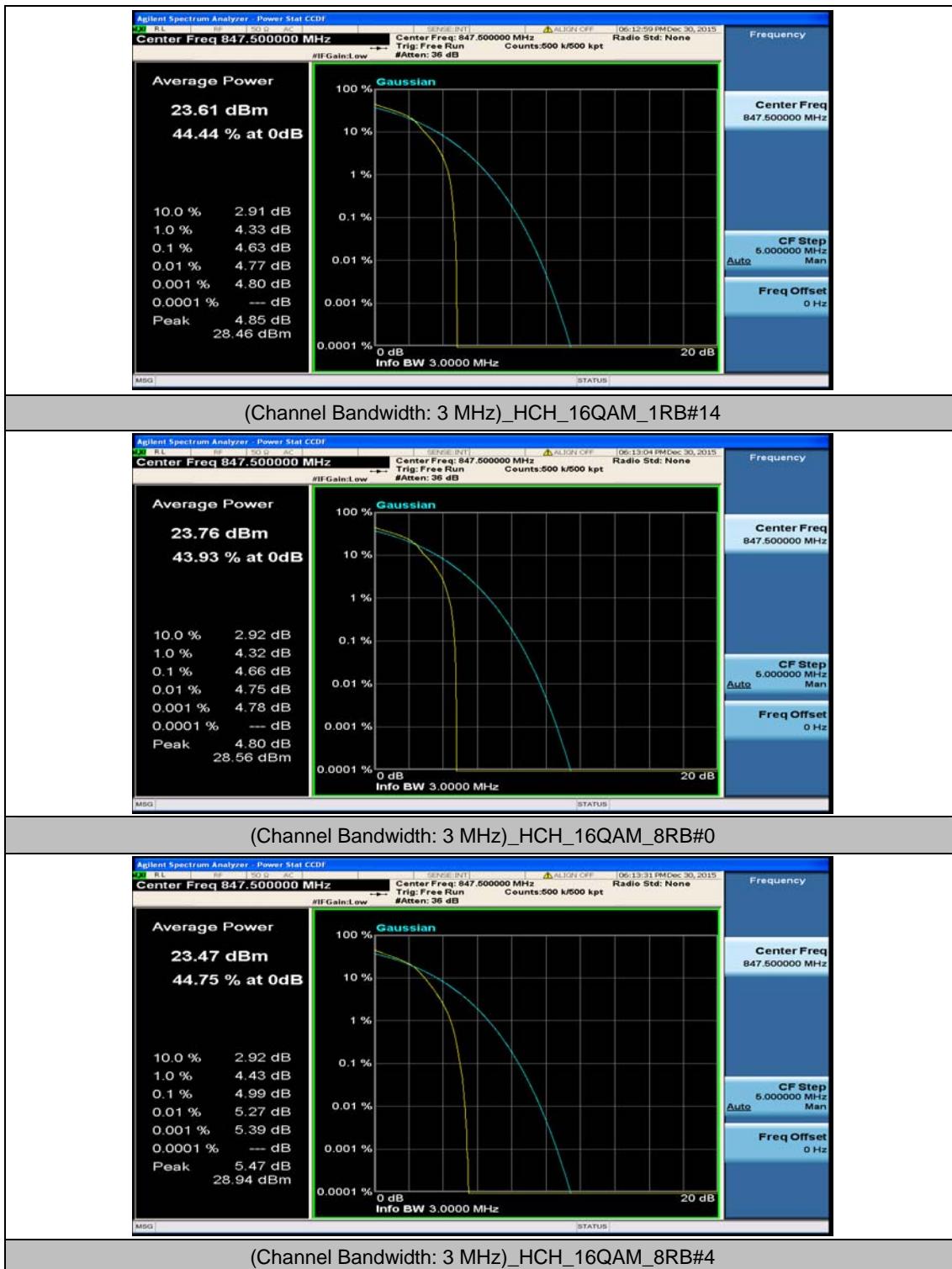


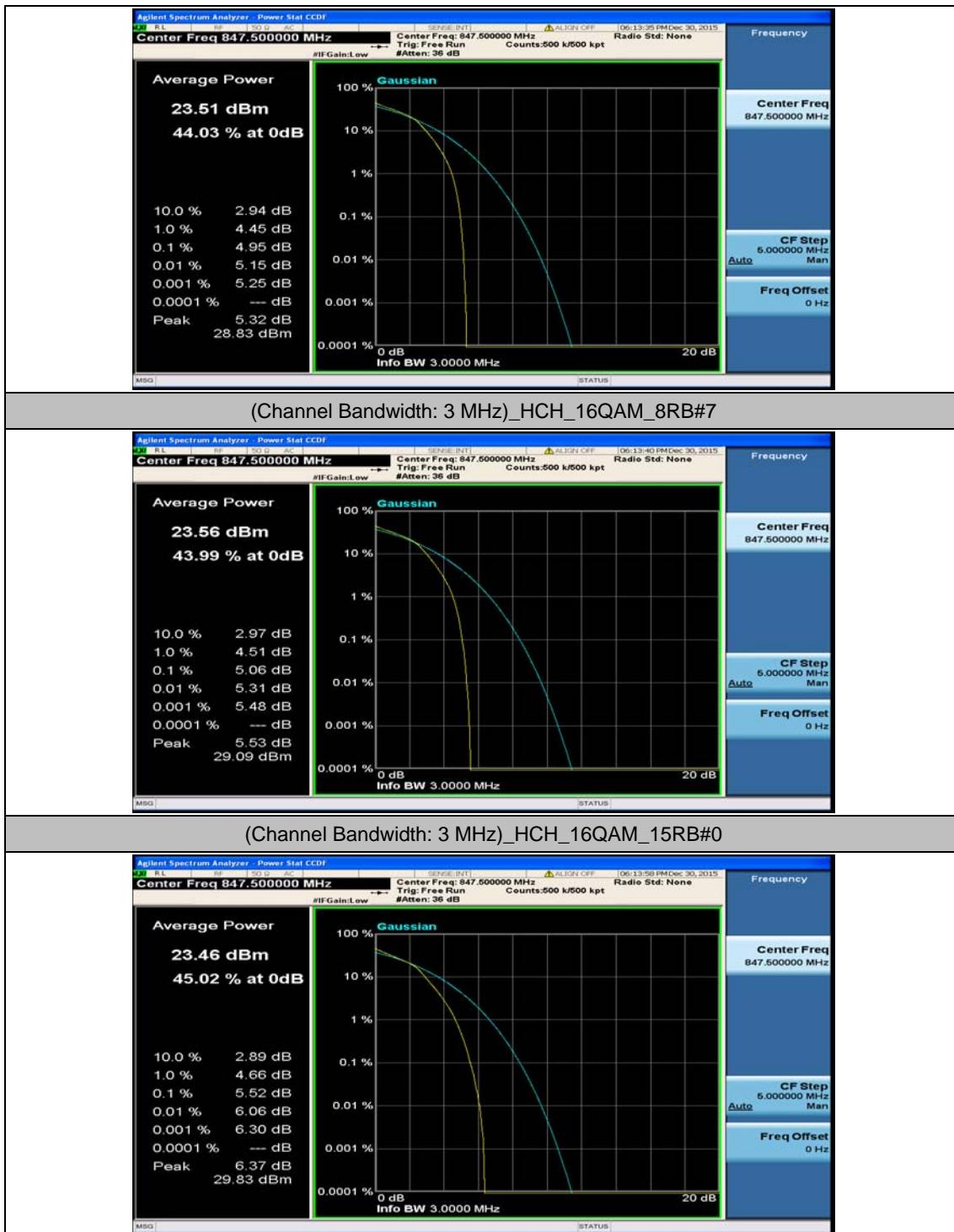




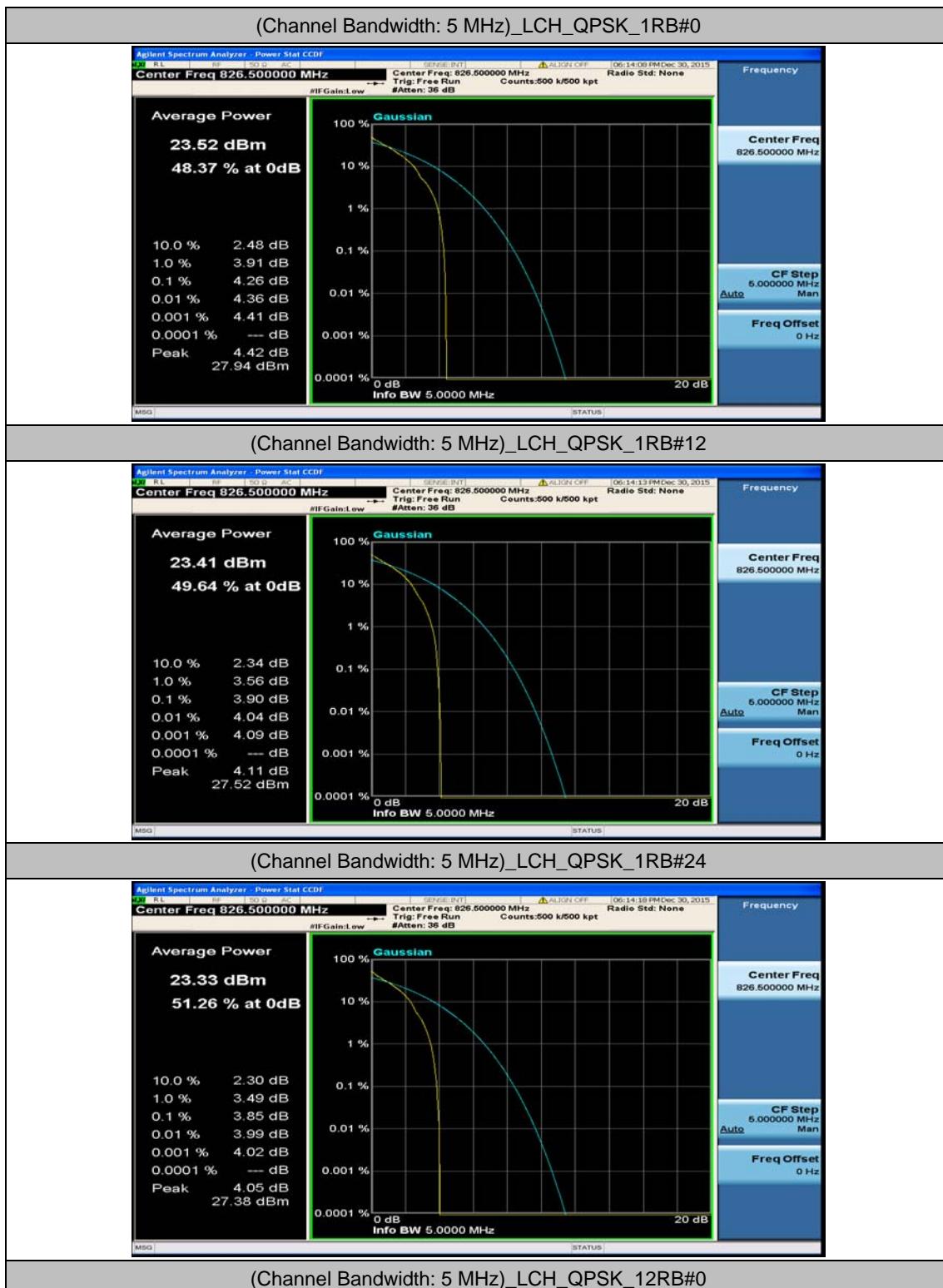


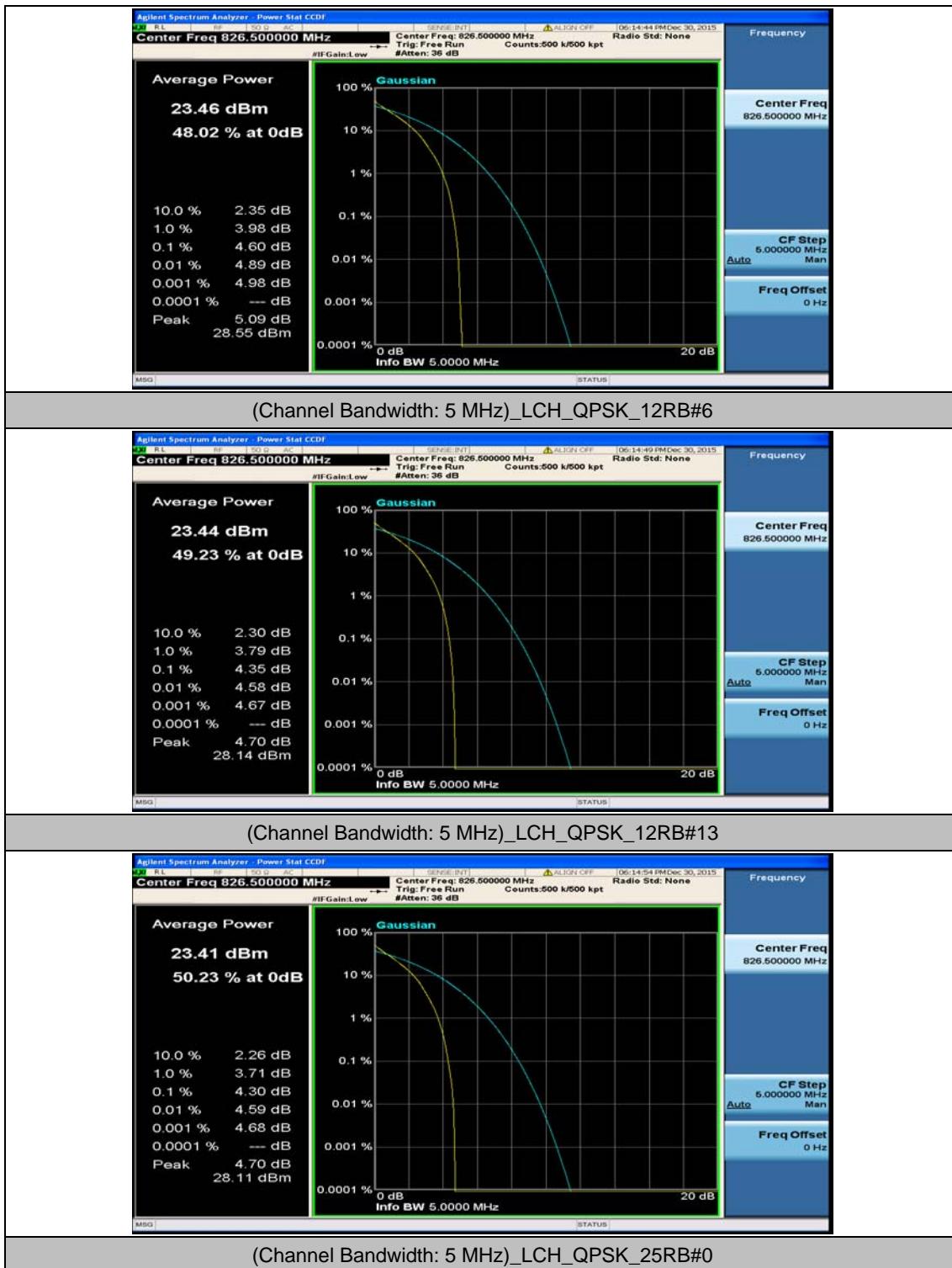


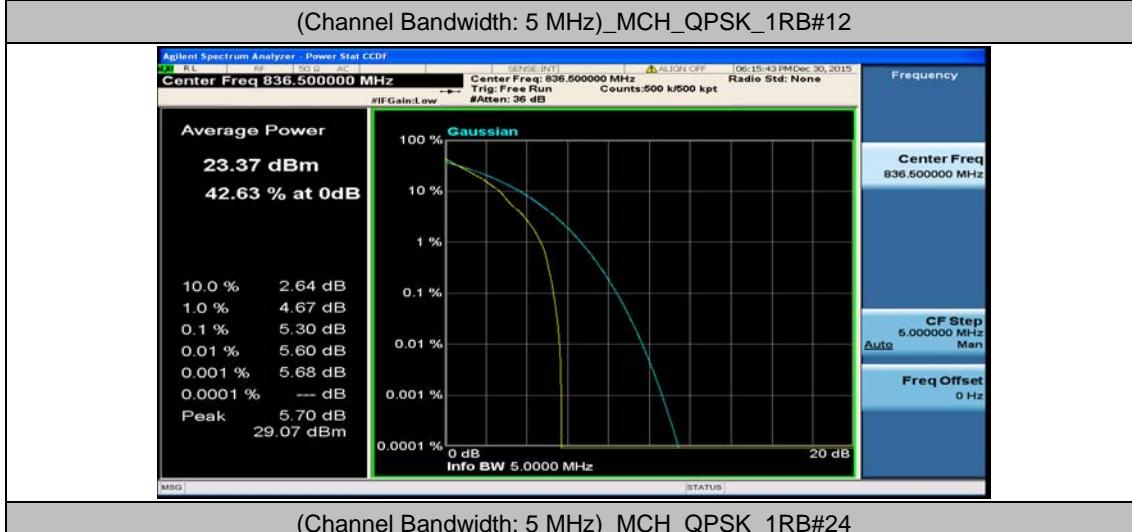
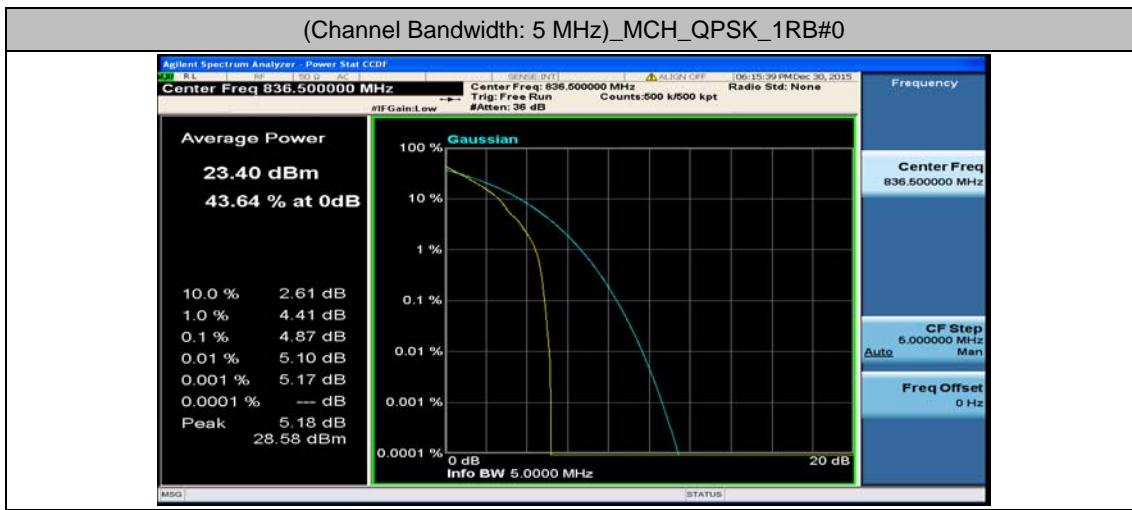
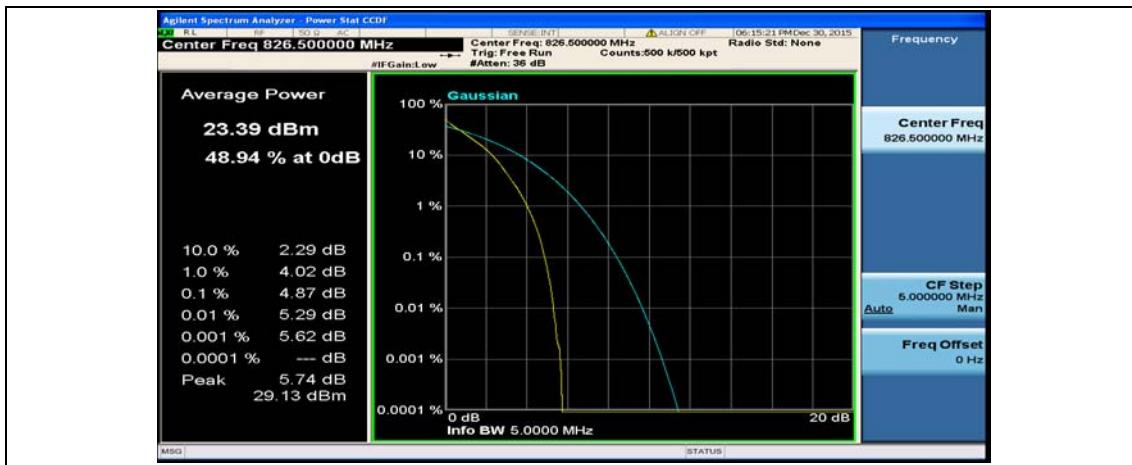




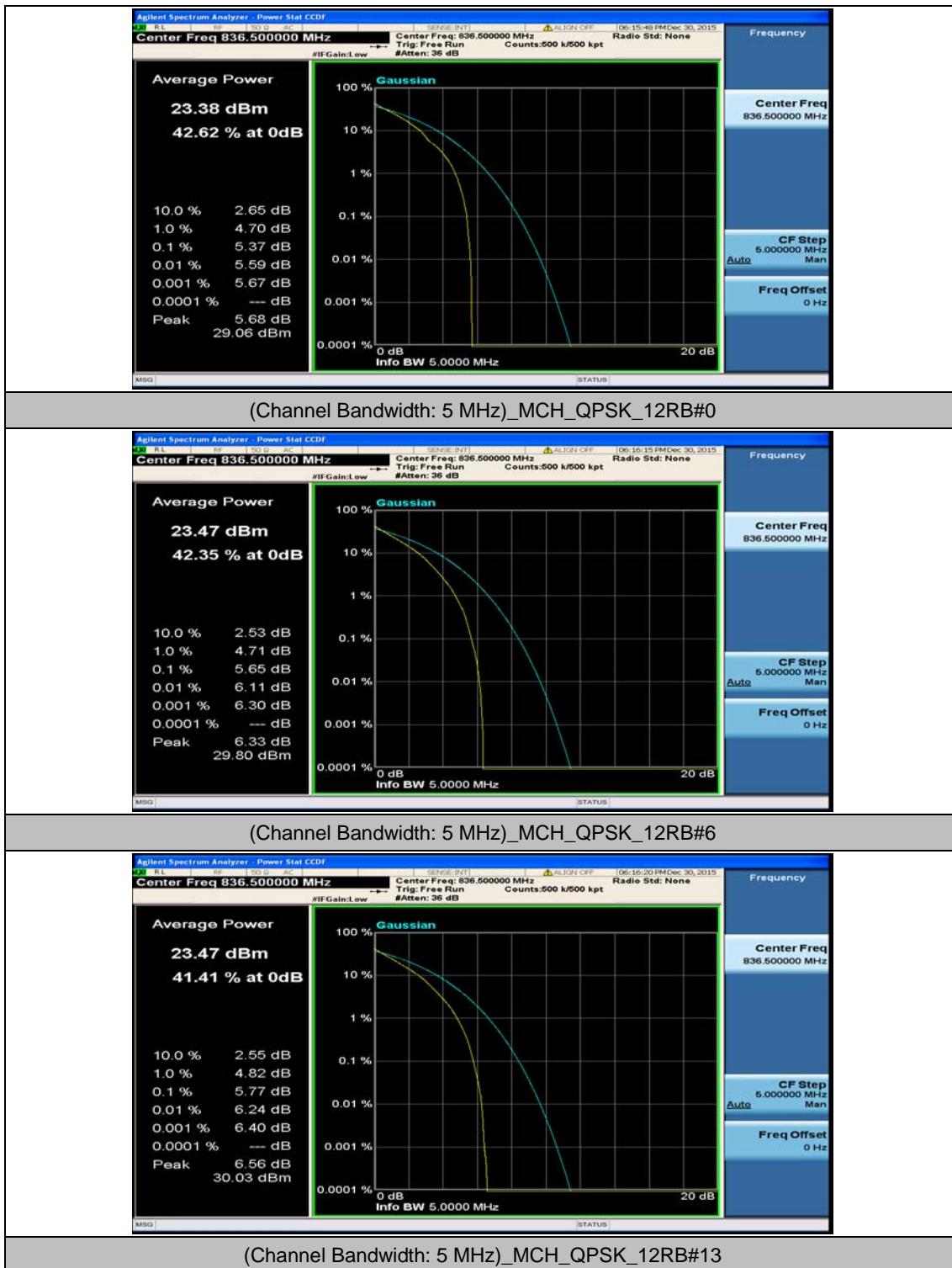
Channel Bandwidth: 5 MHz

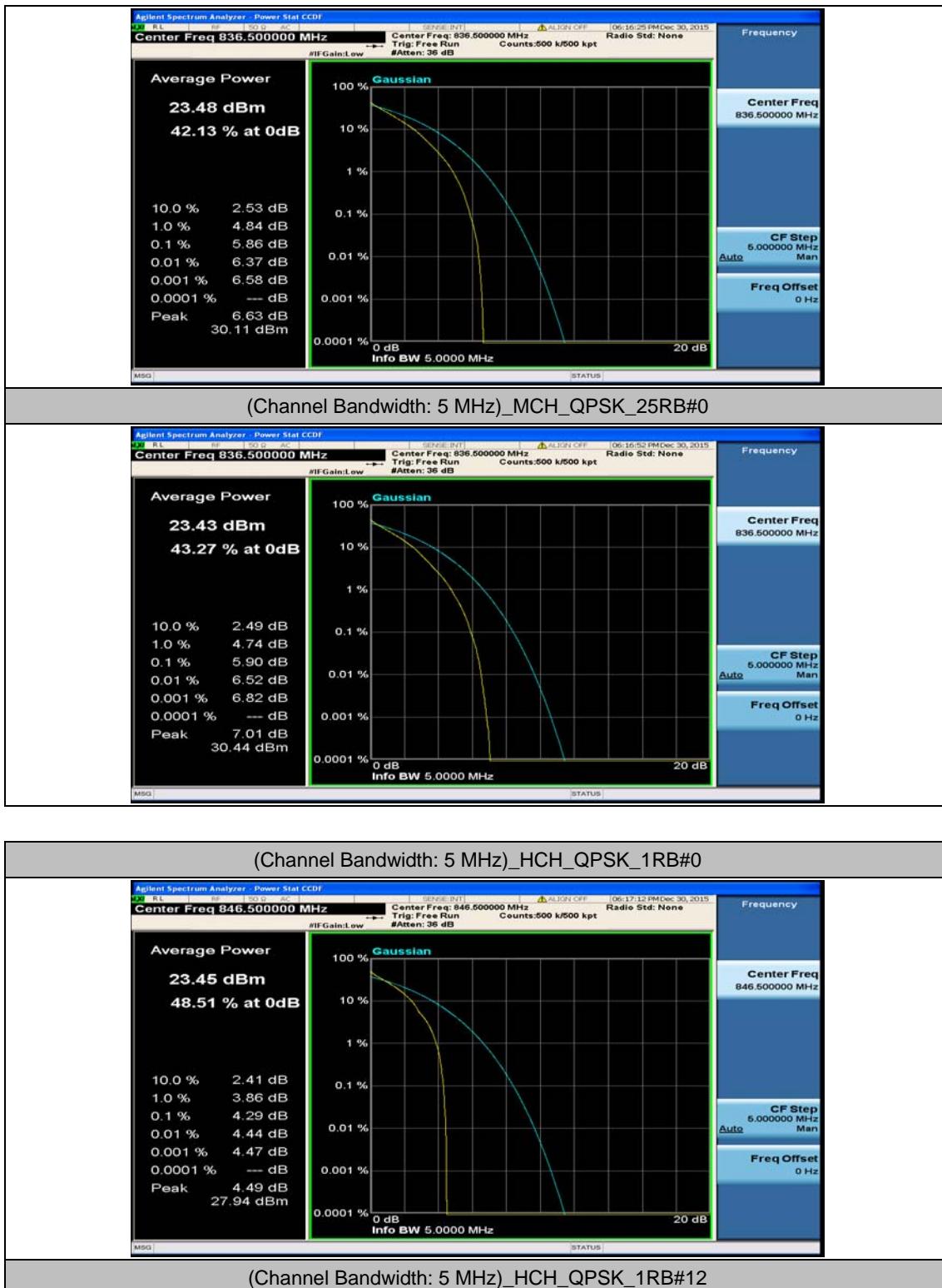


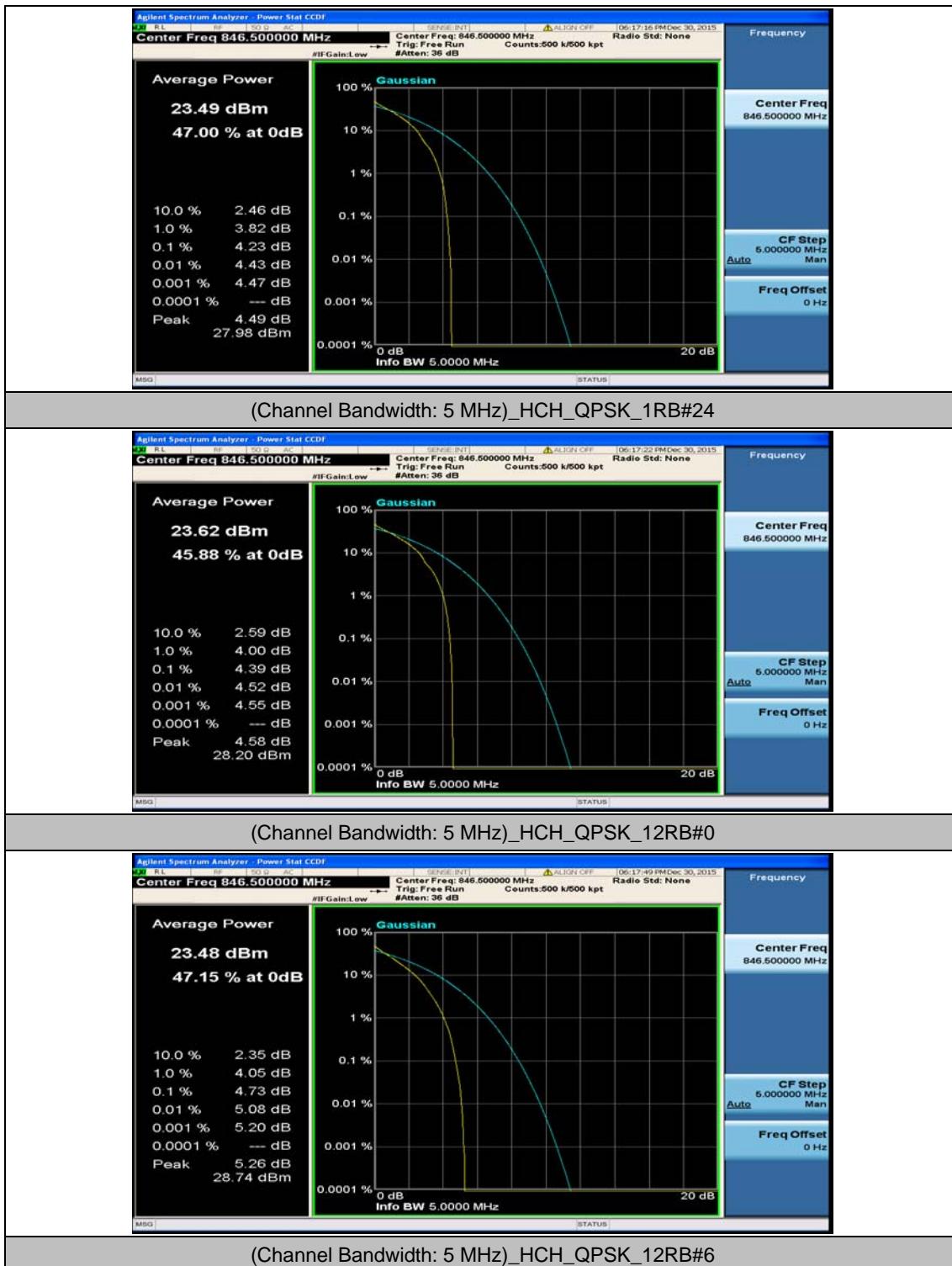


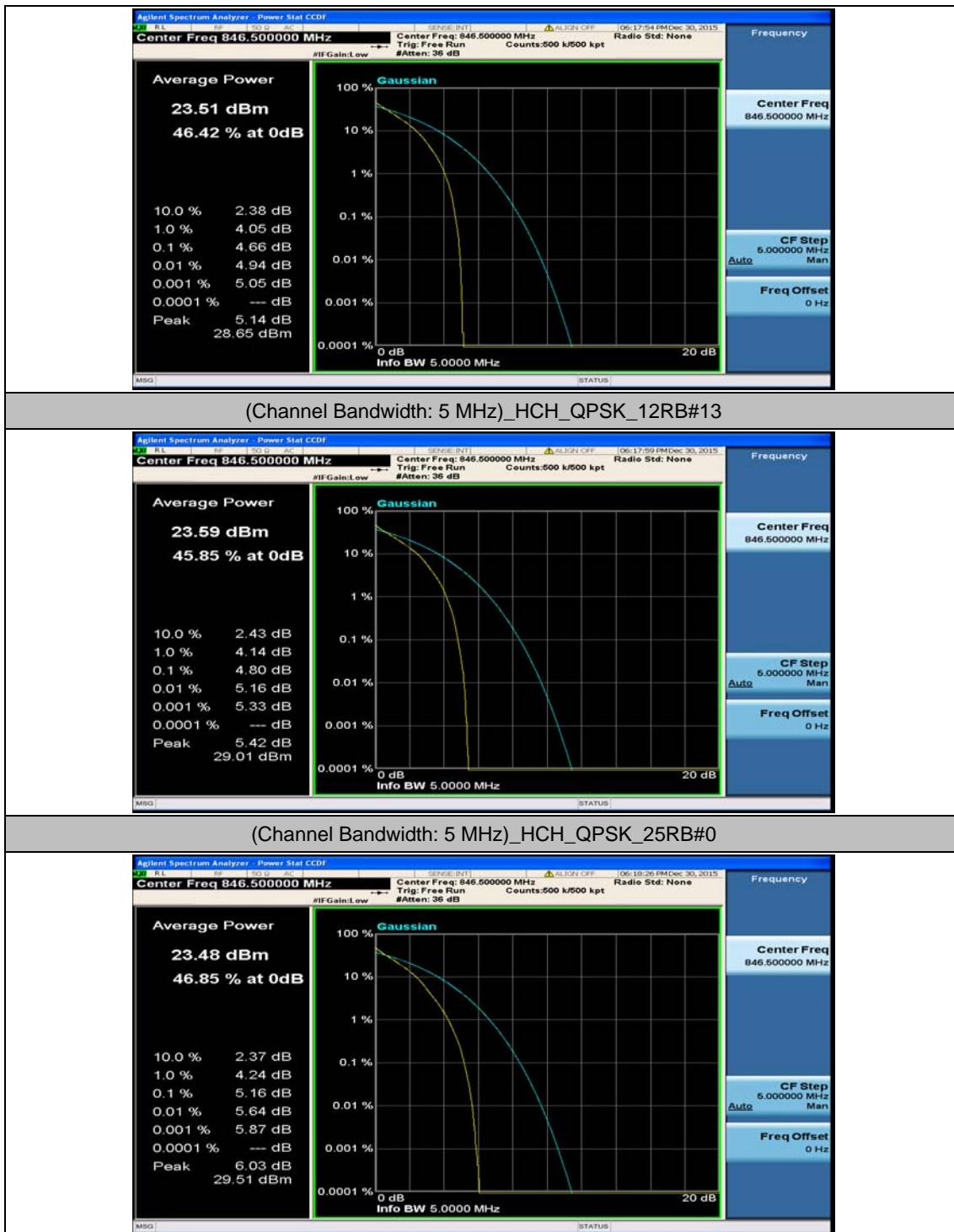


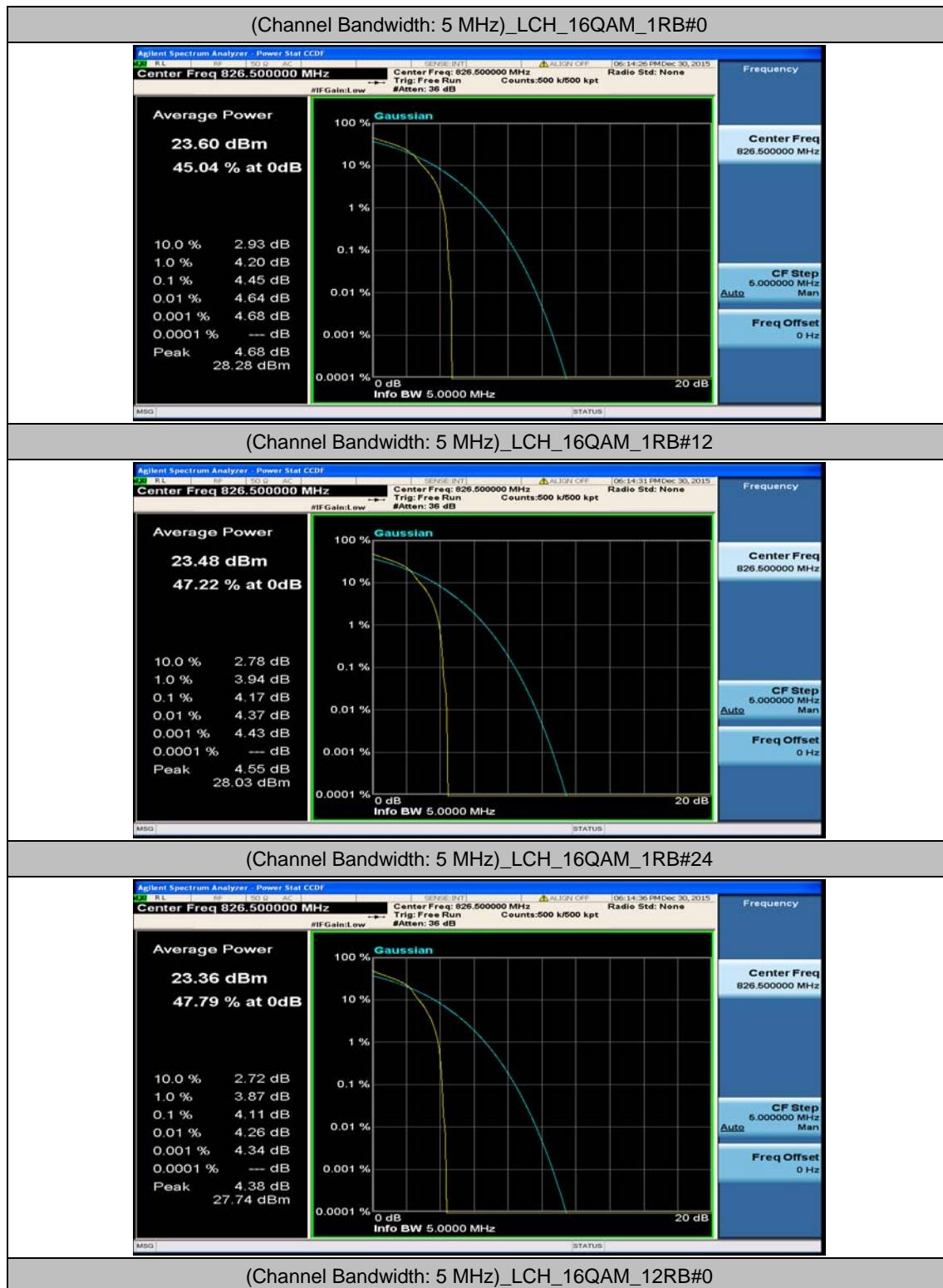
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

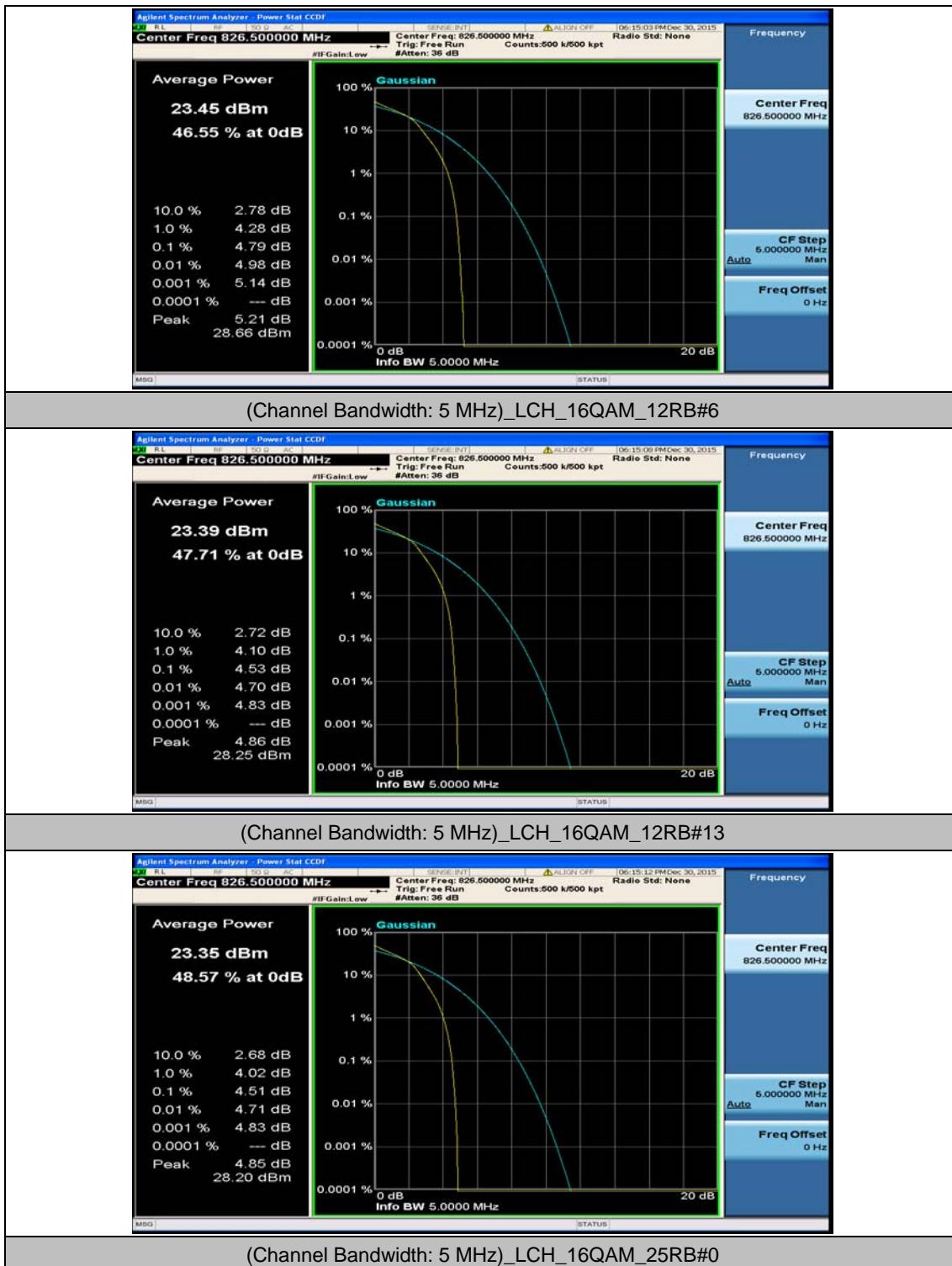


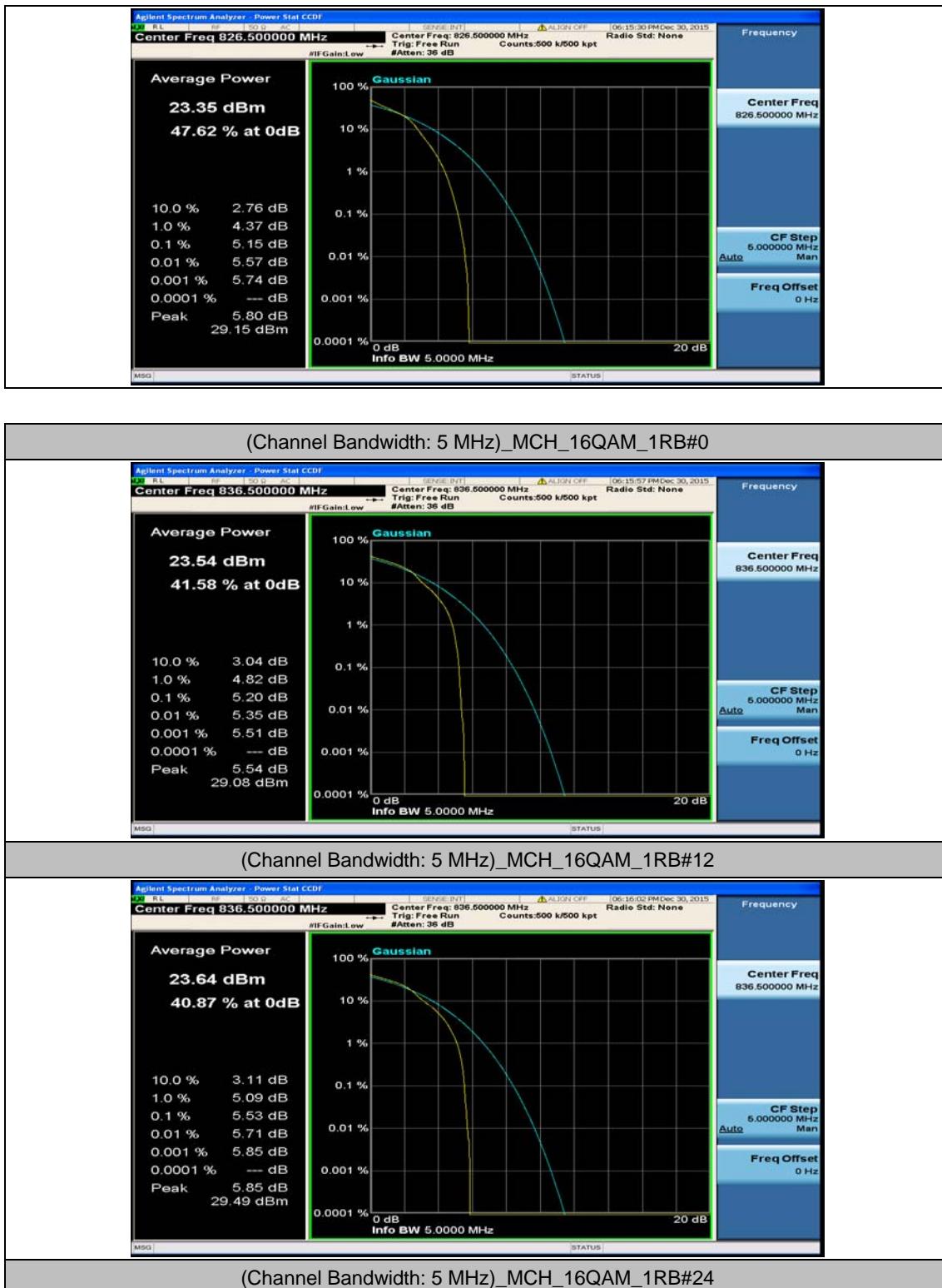


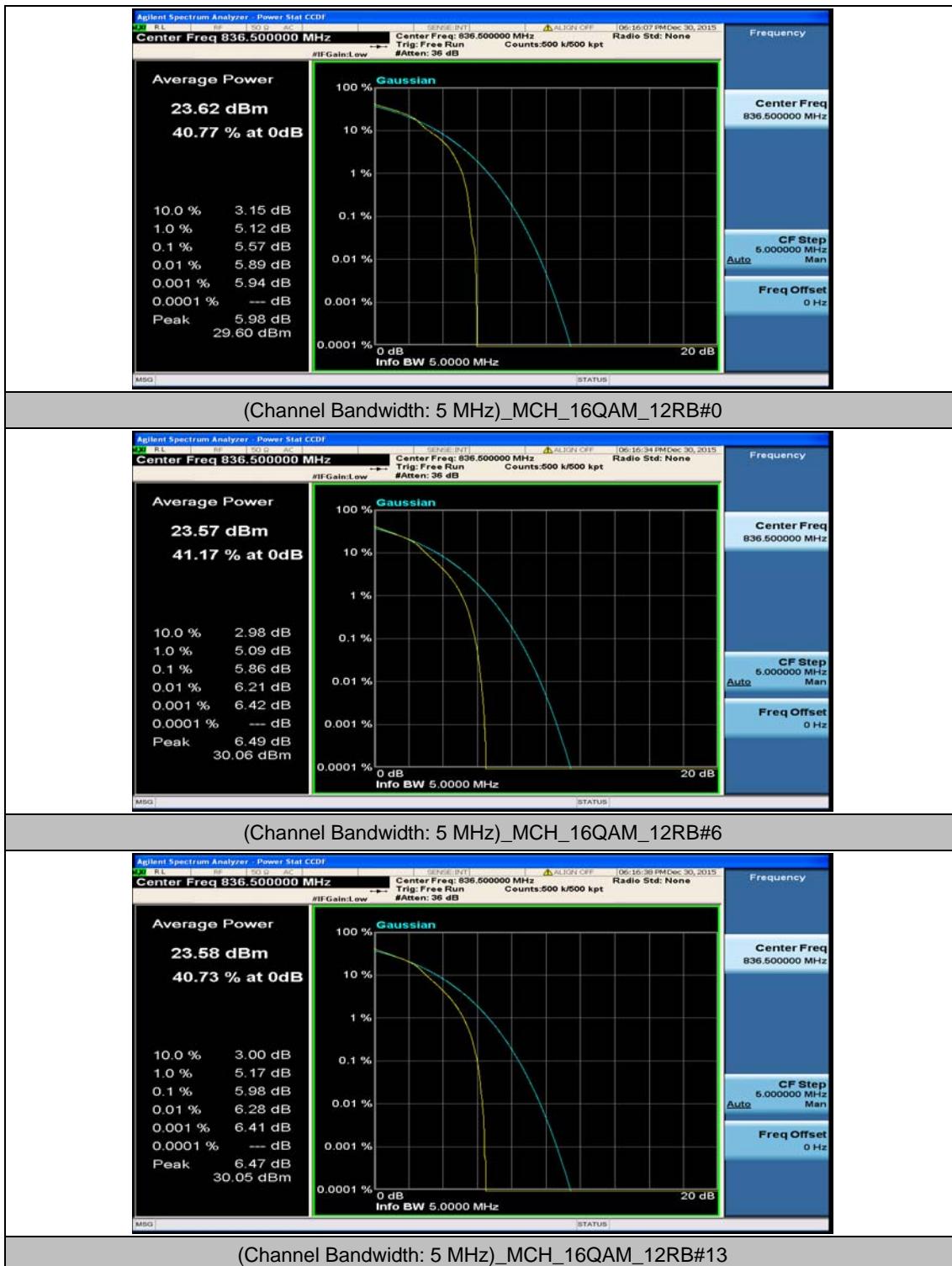


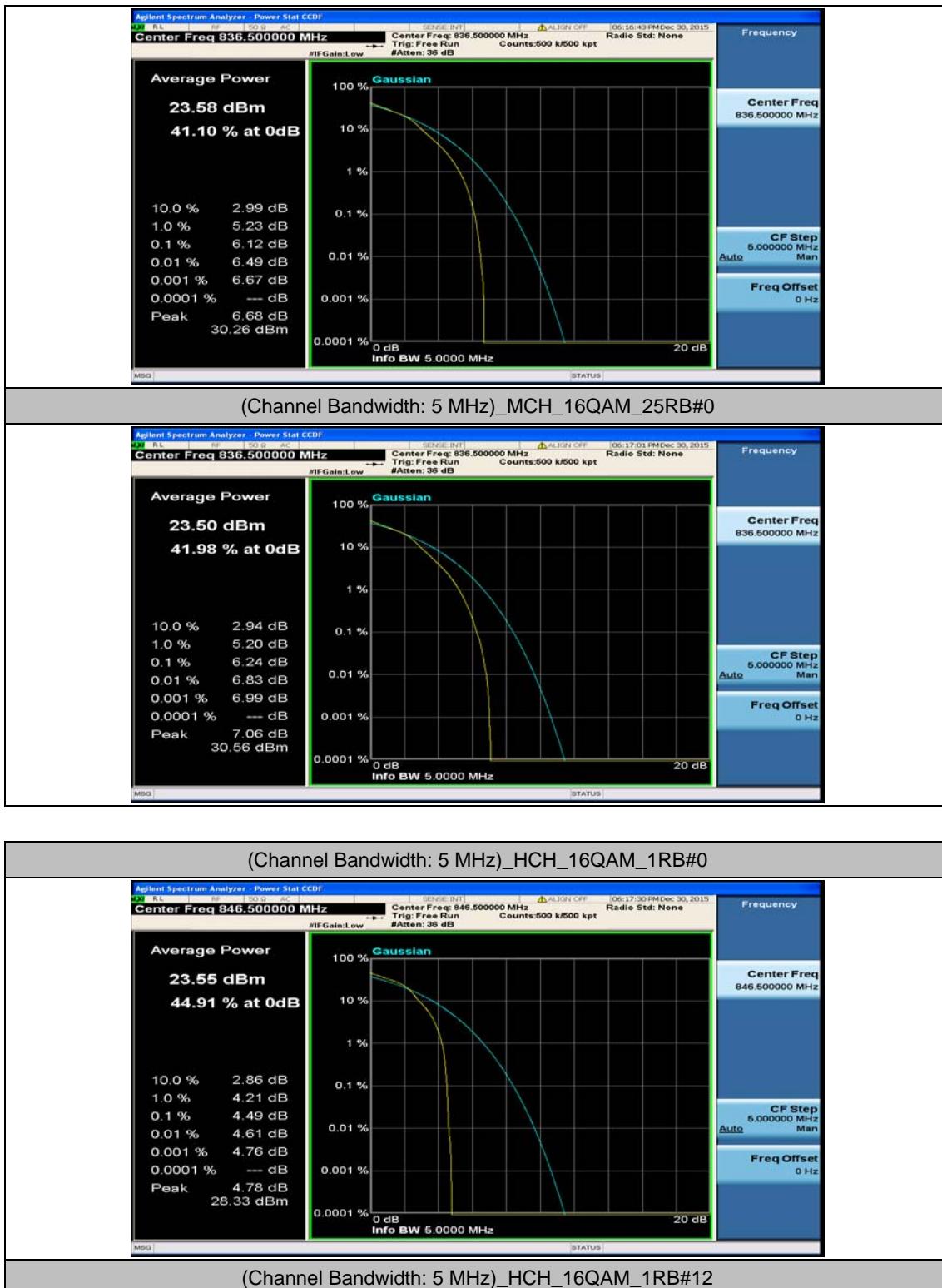


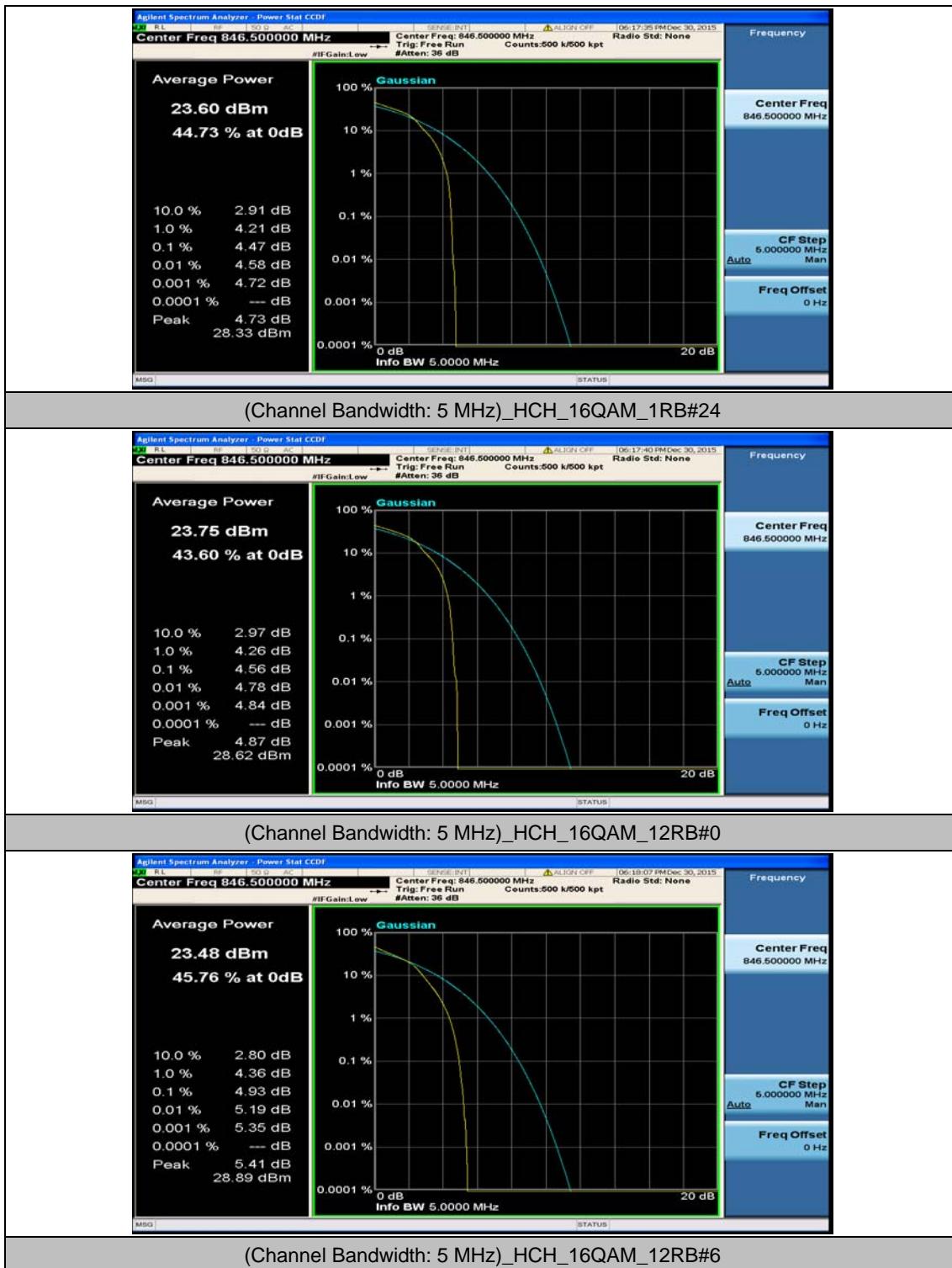


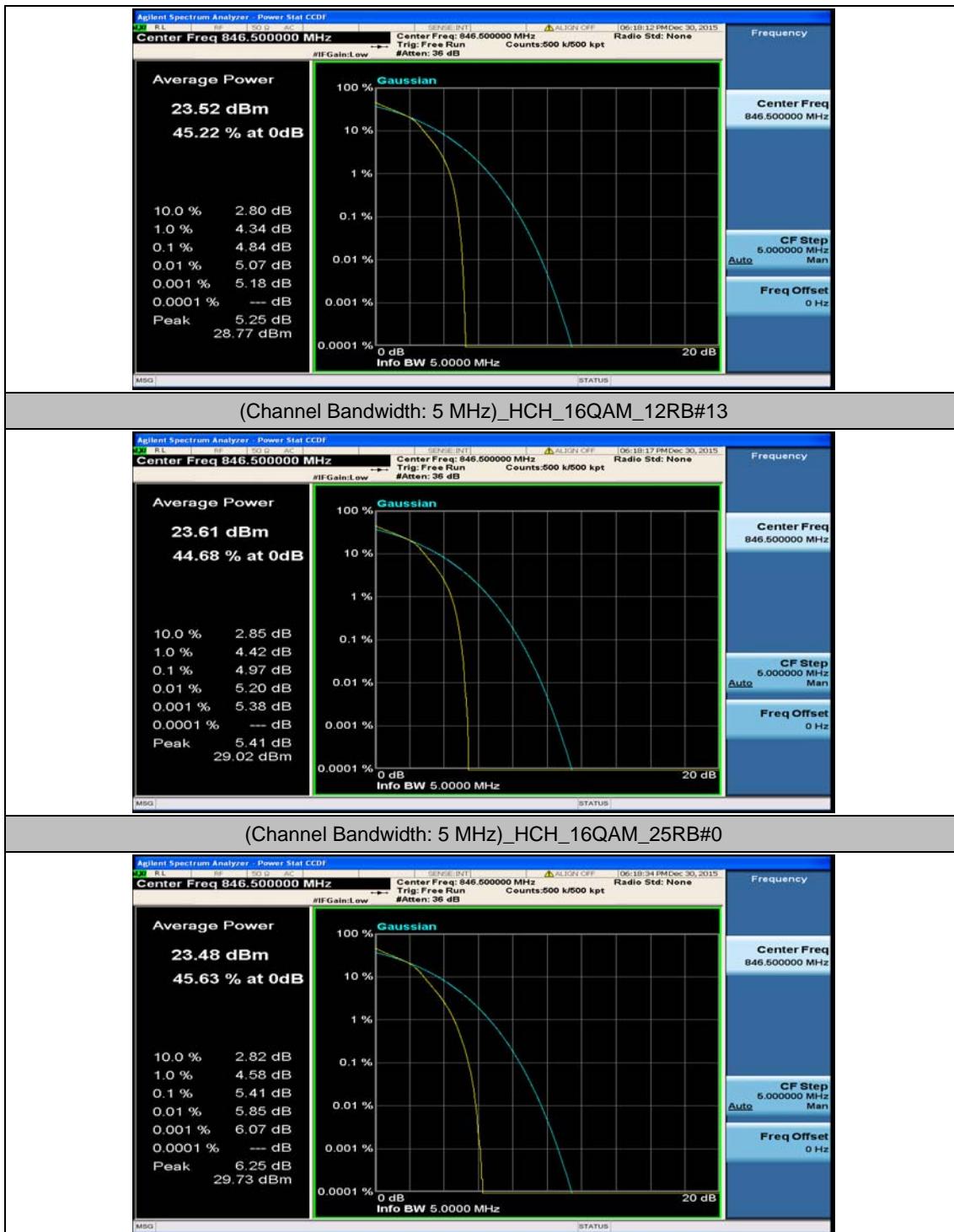












Channel Bandwidth: 10 MHz

