

Appendix C.2: 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 | 5.31 | <13 | PASS |
| | | 1 | 3 | 4.92 | <13 | PASS |
| | | 1 | 5 | 4.55 | <13 | PASS |
| | | 3 | 0 | 5.14 | <13 | PASS |
| | | 3 | 2 | 4.81 | <13 | PASS |
| | | 3 | 3 | 4.65 | <13 | PASS |
| | | 6 | 0 | 5.57 | <13 | PASS |
| | MCH | 1 | 0 | 3.47 | <13 | PASS |
| | | 1 | 3 | 3.83 | <13 | PASS |
| | | 1 | 5 | 4.08 | <13 | PASS |
| | | 3 | 0 | 3.78 | <13 | PASS |
| | | 3 | 2 | 4.1 | <13 | PASS |
| | | 3 | 3 | 4.26 | <13 | PASS |
| | | 6 | 0 | 5.28 | <13 | PASS |
| | HCH | 1 | 0 | 2.87 | <13 | PASS |
| | | 1 | 3 | 3.37 | <13 | PASS |
| | | 1 | 5 | 3.73 | <13 | PASS |
| | | 3 | 0 | 3.11 | <13 | PASS |
| | | 3 | 2 | 3.37 | <13 | PASS |
| | | 3 | 3 | 3.58 | <13 | PASS |
| | | 6 | 0 | 4.35 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 6.25 | <13 | PASS |
| | | 1 | 3 | 5.74 | <13 | PASS |
| | | 1 | 5 | 5.46 | <13 | PASS |
| | | 3 | 0 | 6.08 | <13 | PASS |
| | | 3 | 2 | 5.79 | <13 | PASS |
| | | 3 | 3 | 5.62 | <13 | PASS |
| | | 6 | 0 | 6.57 | <13 | PASS |
| | MCH | 1 | 0 | 4.31 | <13 | PASS |
| | | 1 | 3 | 4.72 | <13 | PASS |
| | | 1 | 5 | 4.91 | <13 | PASS |
| | | 3 | 0 | 4.61 | <13 | PASS |
| | | 3 | 2 | 4.86 | <13 | PASS |

| | | | | | | |
|--|-----|---|---|------|-----|------|
| | | 3 | 3 | 5.02 | <13 | PASS |
| | | 6 | 0 | 6.12 | <13 | PASS |
| | HCH | 1 | 0 | 3.79 | <13 | PASS |
| | | 1 | 3 | 4.23 | <13 | PASS |
| | | 1 | 5 | 4.51 | <13 | PASS |
| | | 3 | 0 | 3.81 | <13 | PASS |
| | | 3 | 2 | 4.06 | <13 | PASS |
| | | 3 | 3 | 4.21 | <13 | PASS |
| | | 6 | 0 | 5.13 | <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 | 5.27 | <13 | PASS |
| | | 1 | 7 | 4.05 | <13 | PASS |
| | | 1 | 14 | 2.87 | <13 | PASS |
| | | 8 | 0 | 5.41 | <13 | PASS |
| | | 8 | 4 | 4.75 | <13 | PASS |
| | | 8 | 7 | 4.4 | <13 | PASS |
| | | 15 | 0 | 5.05 | <13 | PASS |
| | MCH | 1 | 0 | 2.9 | <13 | PASS |
| | | 1 | 7 | 3.66 | <13 | PASS |
| | | 1 | 14 | 4.6 | <13 | PASS |
| | | 8 | 0 | 4.71 | <13 | PASS |
| | | 8 | 4 | 5.18 | <13 | PASS |
| | | 8 | 7 | 5.57 | <13 | PASS |
| | | 15 | 0 | 5.46 | <13 | PASS |
| | HCH | 1 | 0 | 2.96 | <13 | PASS |
| | | 1 | 7 | 2.65 | <13 | PASS |
| | | 1 | 14 | 3.61 | <13 | PASS |
| | | 8 | 0 | 3.75 | <13 | PASS |
| | | 8 | 4 | 3.61 | <13 | PASS |
| | | 8 | 7 | 4.02 | <13 | PASS |
| | | 15 | 0 | 4.52 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 6.15 | <13 | PASS |
| | | 1 | 7 | 5.02 | <13 | PASS |
| | | 1 | 14 | 3.86 | <13 | PASS |
| | | 8 | 0 | 6.21 | <13 | PASS |
| | | 8 | 4 | 5.6 | <13 | PASS |
| | | 8 | 7 | 5.22 | <13 | PASS |

| | | | | | | |
|--|-----|-----|----|------|------|------|
| | | 15 | 0 | 5.98 | <13 | PASS |
| | MCH | 1 | 0 | 3.79 | <13 | PASS |
| | | 1 | 7 | 4.56 | <13 | PASS |
| | | 1 | 14 | 5.52 | <13 | PASS |
| | | 8 | 0 | 5.5 | <13 | PASS |
| | | 8 | 4 | 5.93 | <13 | PASS |
| | | 8 | 7 | 6.27 | <13 | PASS |
| | | 15 | 0 | 6.3 | <13 | PASS |
| | | HCH | 1 | 0 | 4.02 | <13 |
| | 1 | | 7 | 3.64 | <13 | PASS |
| | 1 | | 14 | 4.45 | <13 | PASS |
| | 8 | | 0 | 4.6 | <13 | PASS |
| | 8 | | 4 | 4.47 | <13 | PASS |
| | 8 | | 7 | 4.78 | <13 | PASS |
| | 15 | | 0 | 5.18 | <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 | 5.1 | <13 | PASS |
| | | 1 | 12 | 3.01 | <13 | PASS |
| | | 1 | 24 | 2.21 | <13 | PASS |
| | | 12 | 0 | 5.09 | <13 | PASS |
| | | 12 | 6 | 4.19 | <13 | PASS |
| | | 12 | 13 | 3.77 | <13 | PASS |
| | | 25 | 0 | 4.7 | <13 | PASS |
| | MCH | 1 | 0 | 2.46 | <13 | PASS |
| | | 1 | 12 | 3.69 | <13 | PASS |
| | | 1 | 24 | 5.37 | <13 | PASS |
| | | 12 | 0 | 4.36 | <13 | PASS |
| | | 12 | 6 | 5.06 | <13 | PASS |
| | | 12 | 13 | 5.84 | <13 | PASS |
| | | 25 | 0 | 5.51 | <13 | PASS |
| | HCH | 1 | 0 | 5.11 | <13 | PASS |
| | | 1 | 12 | 2.93 | <13 | PASS |
| | | 1 | 24 | 3.6 | <13 | PASS |
| | | 12 | 0 | 4.76 | <13 | PASS |
| | | 12 | 6 | 4.06 | <13 | PASS |
| | | 12 | 13 | 4 | <13 | PASS |
| | | 25 | 0 | 4.91 | <13 | PASS |

| | | | | | | |
|-------|-----|----|----|------|-----|------|
| 16QAM | LCH | 1 | 0 | 6.04 | <13 | PASS |
| | | 1 | 12 | 4.01 | <13 | PASS |
| | | 1 | 24 | 3.27 | <13 | PASS |
| | | 12 | 0 | 6.03 | <13 | PASS |
| | | 12 | 6 | 5.21 | <13 | PASS |
| | | 12 | 13 | 4.69 | <13 | PASS |
| | | 25 | 0 | 5.69 | <13 | PASS |
| | MCH | 1 | 0 | 3.48 | <13 | PASS |
| | | 1 | 12 | 4.66 | <13 | PASS |
| | | 1 | 24 | 6.27 | <13 | PASS |
| | | 12 | 0 | 5.21 | <13 | PASS |
| | | 12 | 6 | 5.96 | <13 | PASS |
| | | 12 | 13 | 6.59 | <13 | PASS |
| | | 25 | 0 | 6.28 | <13 | PASS |
| | HCH | 1 | 0 | 5.83 | <13 | PASS |
| | | 1 | 12 | 3.78 | <13 | PASS |
| | | 1 | 24 | 4.18 | <13 | PASS |
| | | 12 | 0 | 5.93 | <13 | PASS |
| | | 12 | 6 | 5.04 | <13 | PASS |
| | | 12 | 13 | 4.93 | <13 | PASS |
| | | 25 | 0 | 5.73 | <13 | PASS |

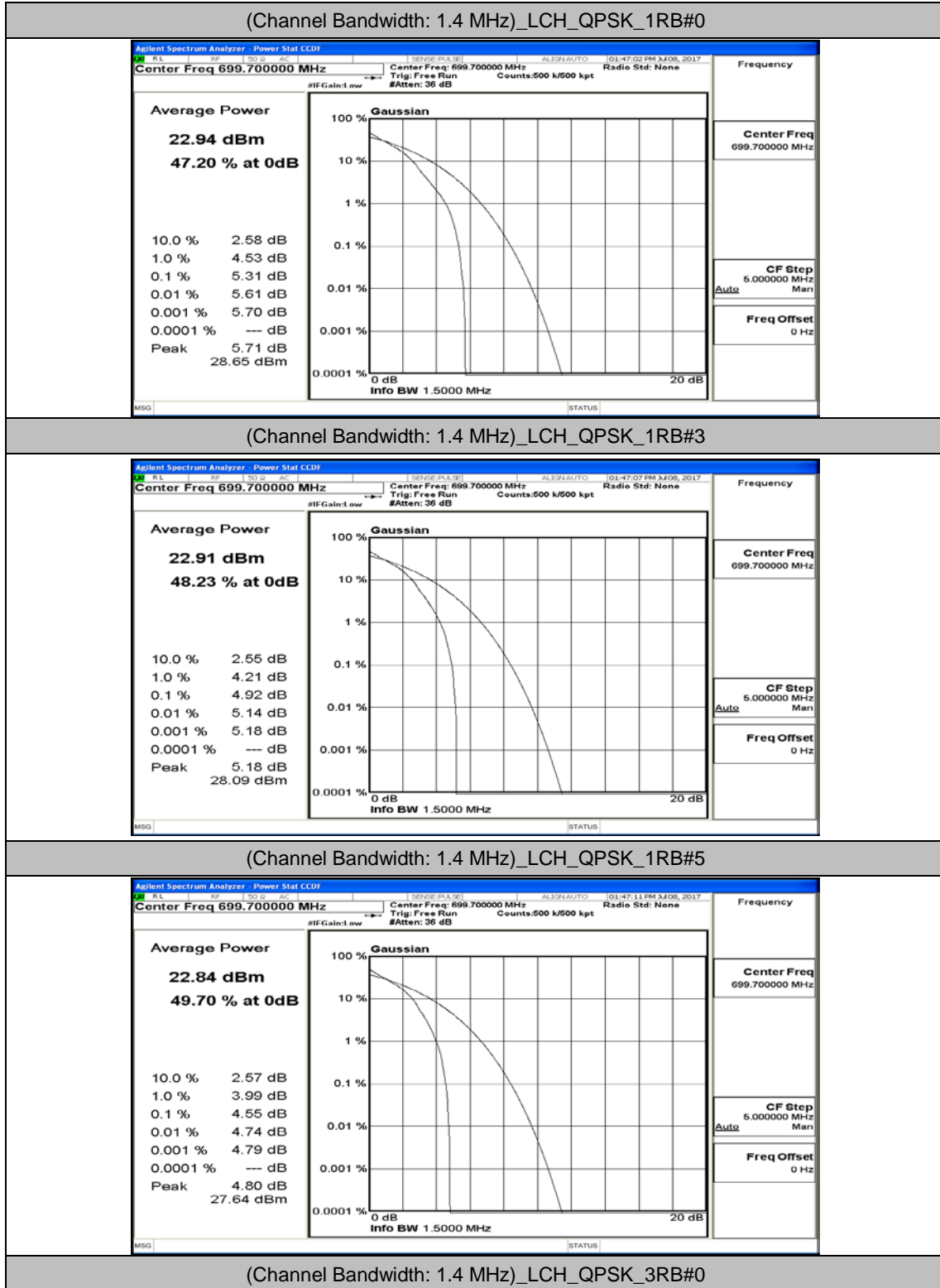
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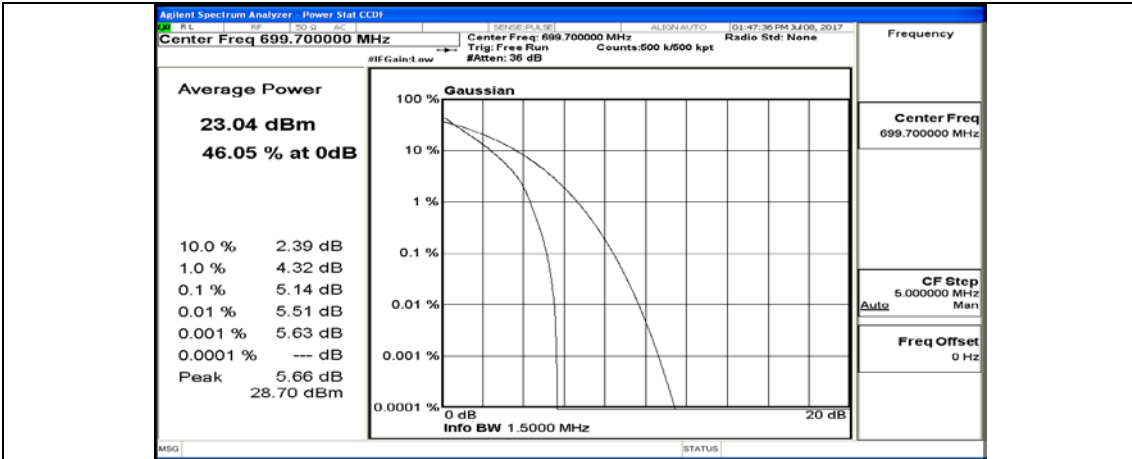
| Channel Bandwidth: 10 MHz | | | | | | |
|---------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 5.01 | <13 | PASS |
| | | 1 | 24 | 2.14 | <13 | PASS |
| | | 1 | 49 | 4.3 | <13 | PASS |
| | | 25 | 0 | 4.34 | <13 | PASS |
| | | 25 | 12 | 3.86 | <13 | PASS |
| | | 25 | 25 | 4.74 | <13 | PASS |
| | | 50 | 0 | 5.26 | <13 | PASS |
| | MCH | 1 | 0 | 2.24 | <13 | PASS |
| | | 1 | 24 | 3.67 | <13 | PASS |
| | | 1 | 49 | 4.42 | <13 | PASS |
| | | 25 | 0 | 4.06 | <13 | PASS |
| | | 25 | 12 | 5.32 | <13 | PASS |
| | | 25 | 25 | 5.6 | <13 | PASS |
| | | 50 | 0 | 5.81 | <13 | PASS |
| | HCH | 1 | 0 | 3.01 | <13 | PASS |

| | | | | | | |
|-------|-----|----|----|------|-----|------|
| | | 1 | 24 | 5.24 | <13 | PASS |
| | | 1 | 49 | 3.18 | <13 | PASS |
| | | 25 | 0 | 6.04 | <13 | PASS |
| | | 25 | 12 | 5.17 | <13 | PASS |
| | | 25 | 25 | 4.91 | <13 | PASS |
| | | 50 | 0 | 4.86 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 5.89 | <13 | PASS |
| | | 1 | 24 | 3.21 | <13 | PASS |
| | | 1 | 49 | 5.19 | <13 | PASS |
| | | 25 | 0 | 5.29 | <13 | PASS |
| | | 25 | 12 | 4.62 | <13 | PASS |
| | | 25 | 25 | 5.56 | <13 | PASS |
| | | 50 | 0 | 5.86 | <13 | PASS |
| | MCH | 1 | 0 | 3.25 | <13 | PASS |
| | | 1 | 24 | 4.55 | <13 | PASS |
| | | 1 | 49 | 5.37 | <13 | PASS |
| | | 25 | 0 | 4.83 | <13 | PASS |
| | | 25 | 12 | 6.14 | <13 | PASS |
| | | 25 | 25 | 6.41 | <13 | PASS |
| | | 50 | 0 | 6.46 | <13 | PASS |
| | HCH | 1 | 0 | 4.02 | <13 | PASS |
| | | 1 | 24 | 6.24 | <13 | PASS |
| | | 1 | 49 | 4.07 | <13 | PASS |
| | | 25 | 0 | 6.87 | <13 | PASS |
| | | 25 | 12 | 6.13 | <13 | PASS |
| | | 25 | 25 | 5.81 | <13 | PASS |
| | | 50 | 0 | 5.94 | <13 | PASS |

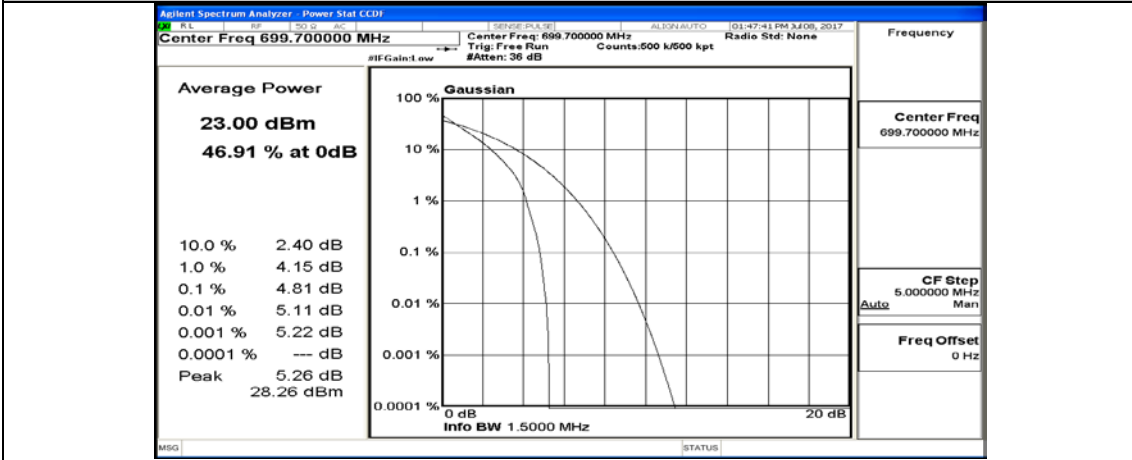
Test Graphs

Channel Bandwidth: 1.4 MHz

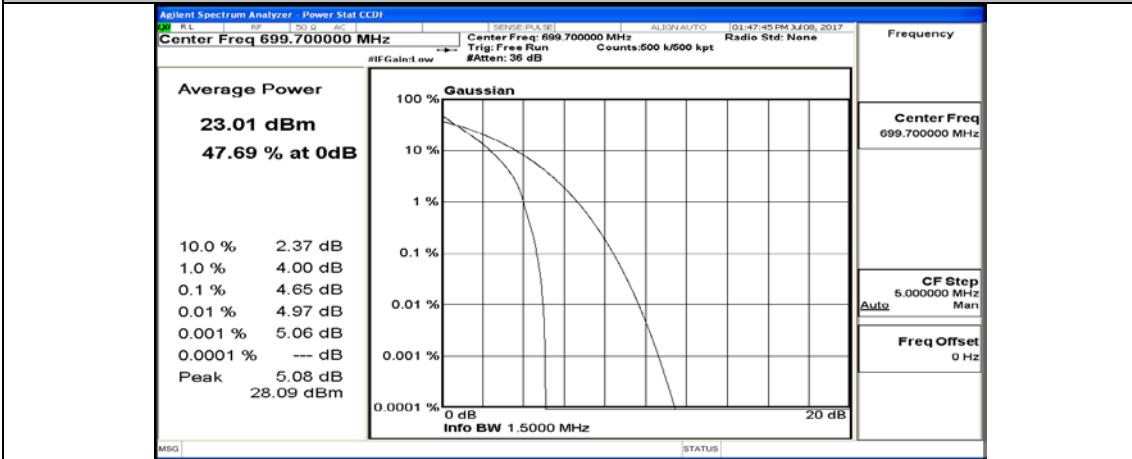




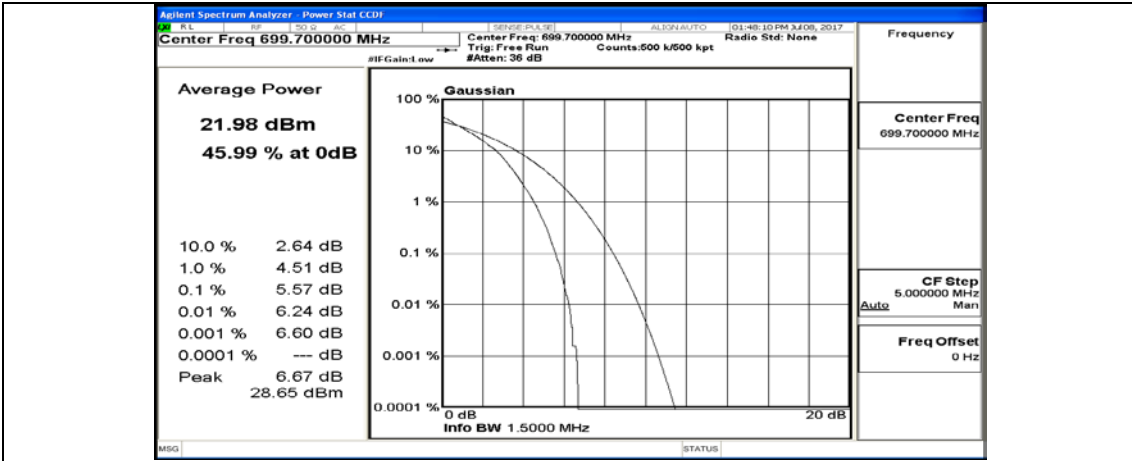
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2



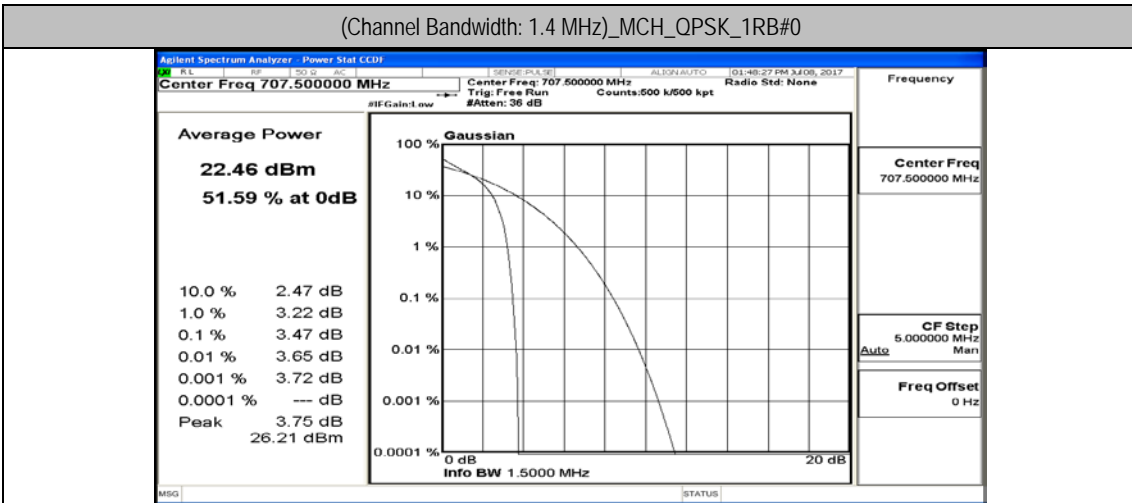
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3



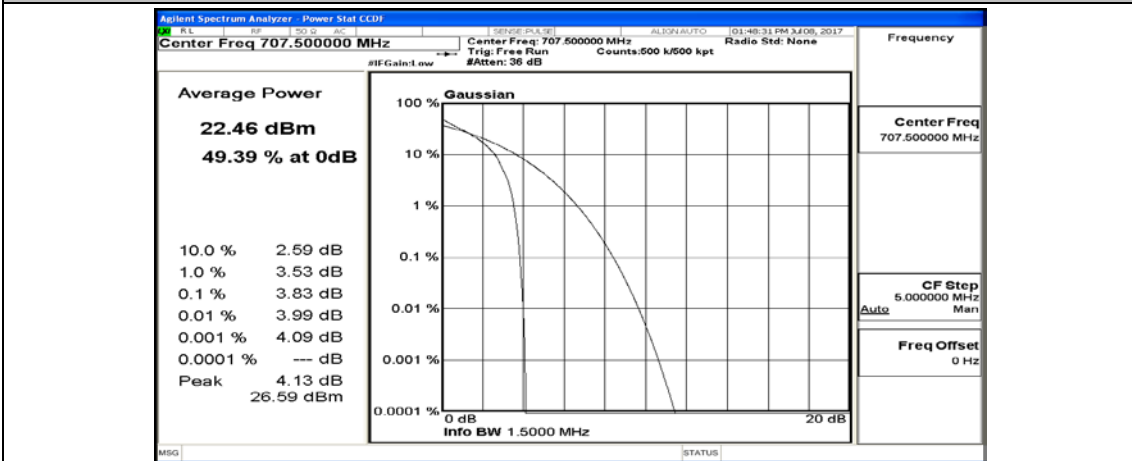
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



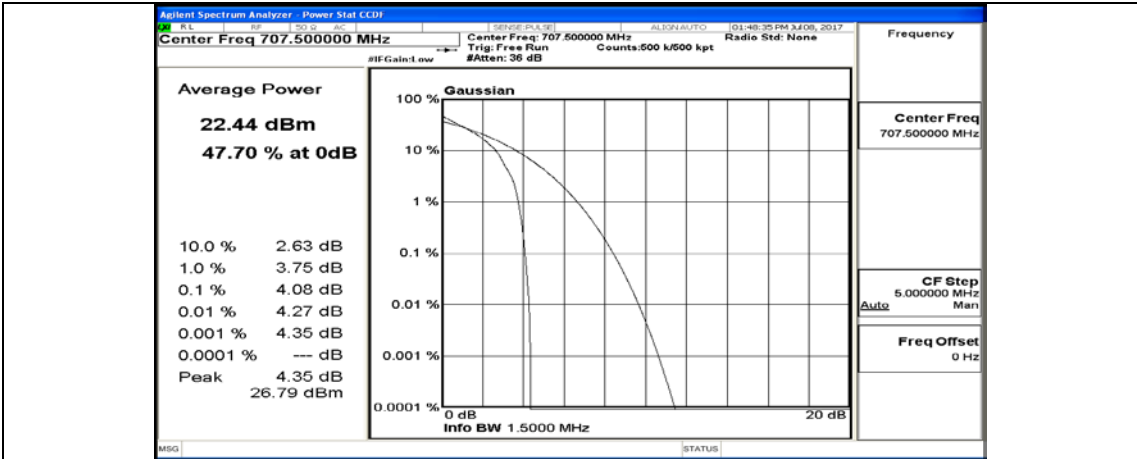
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



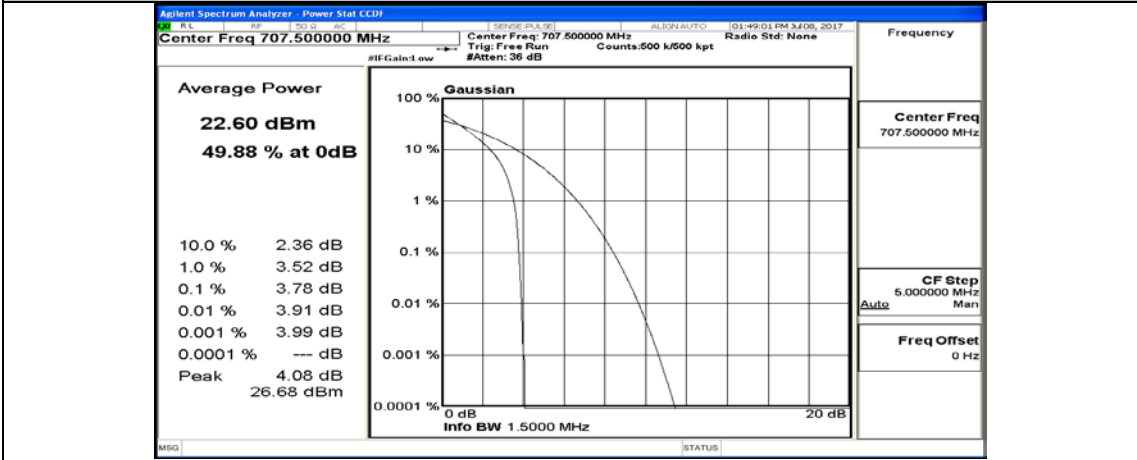
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



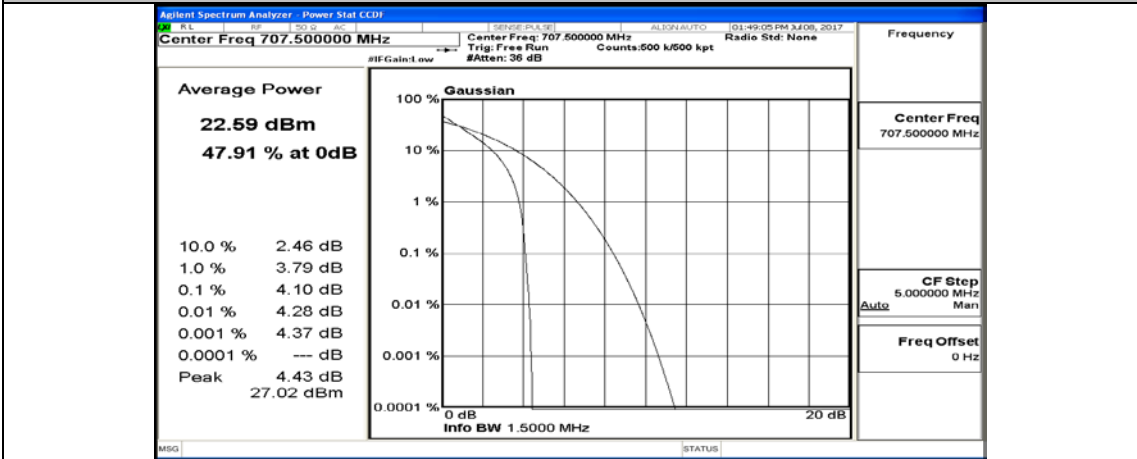
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



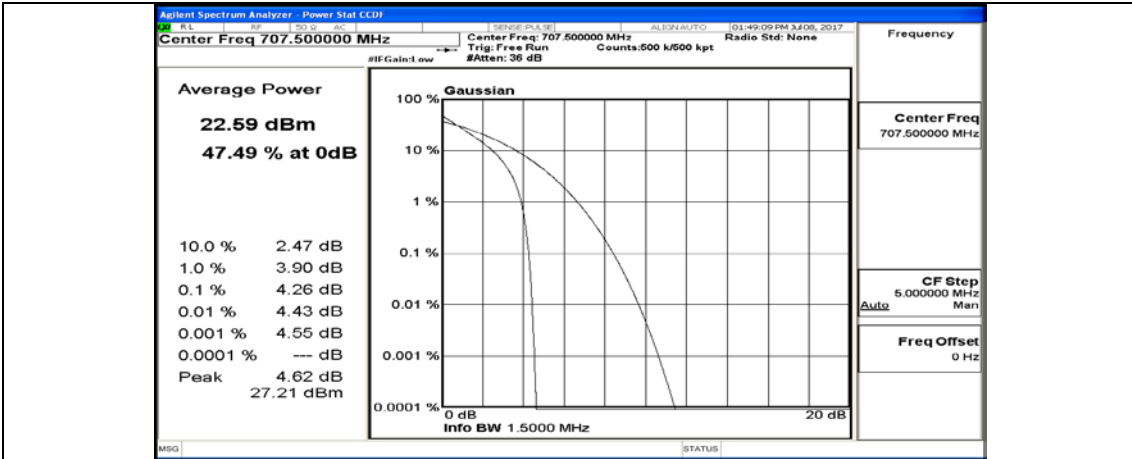
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0



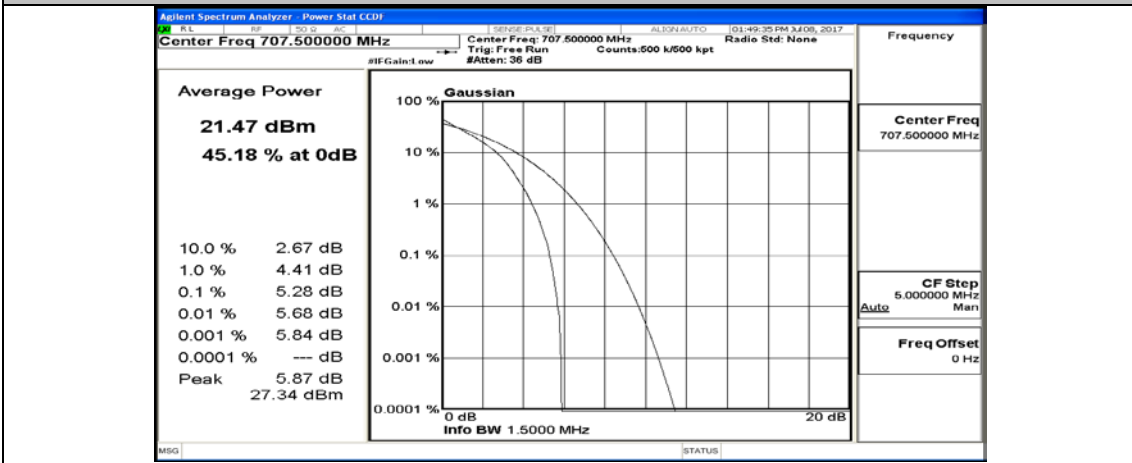
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2



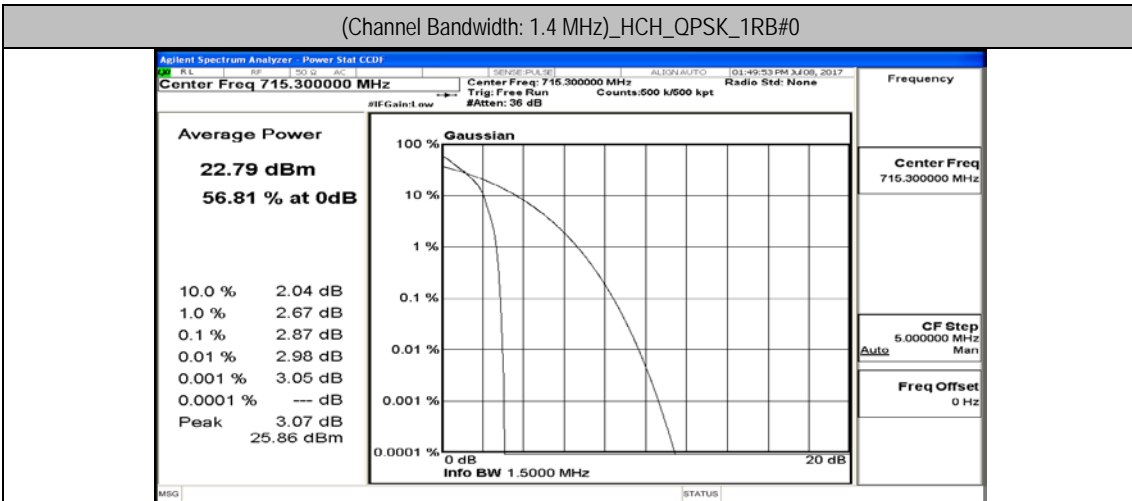
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3



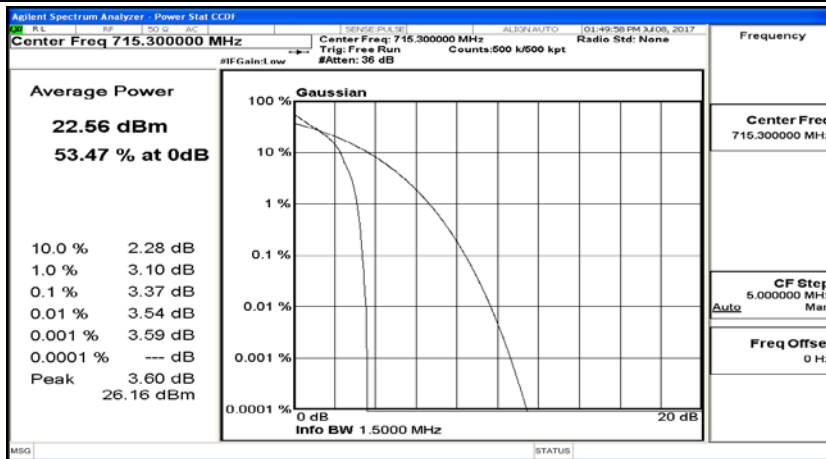
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0



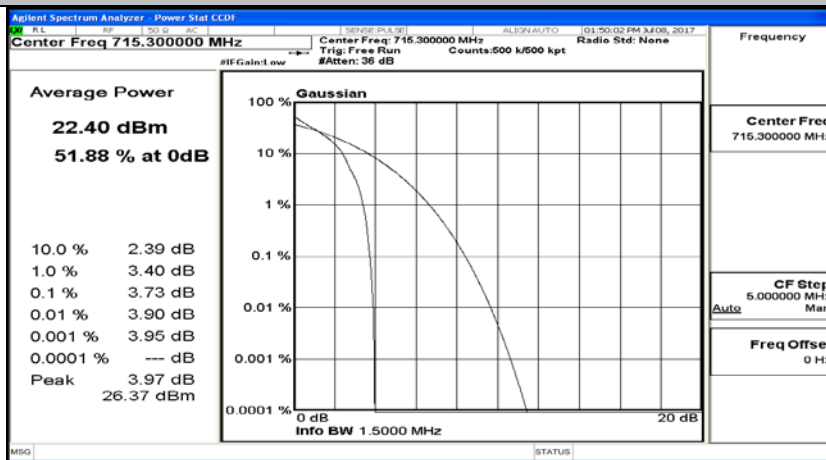
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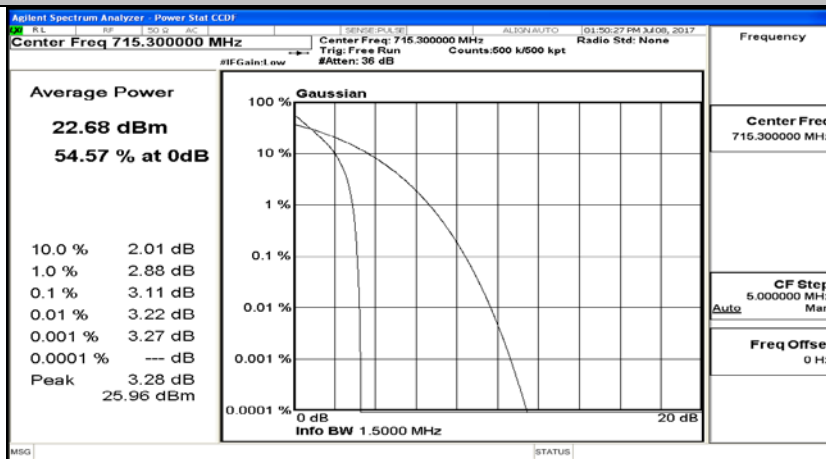
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



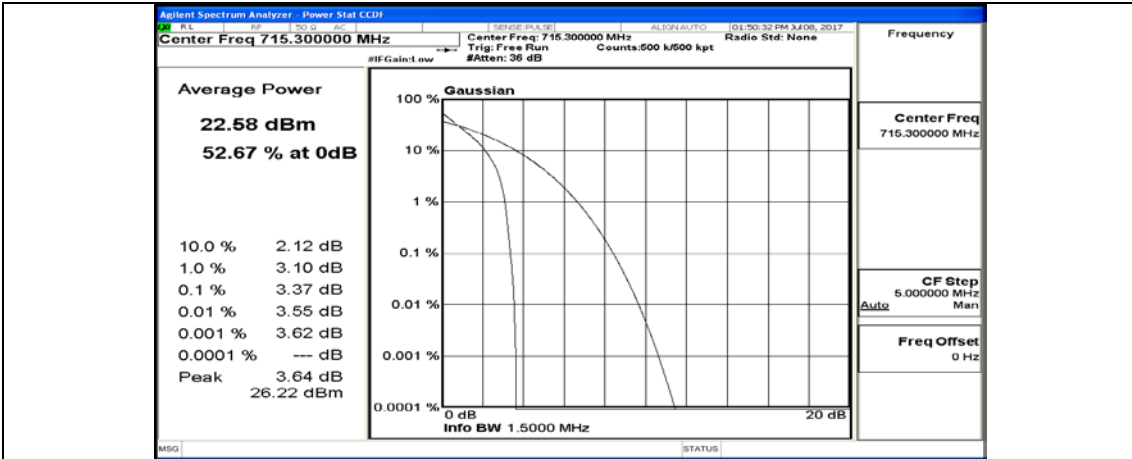
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



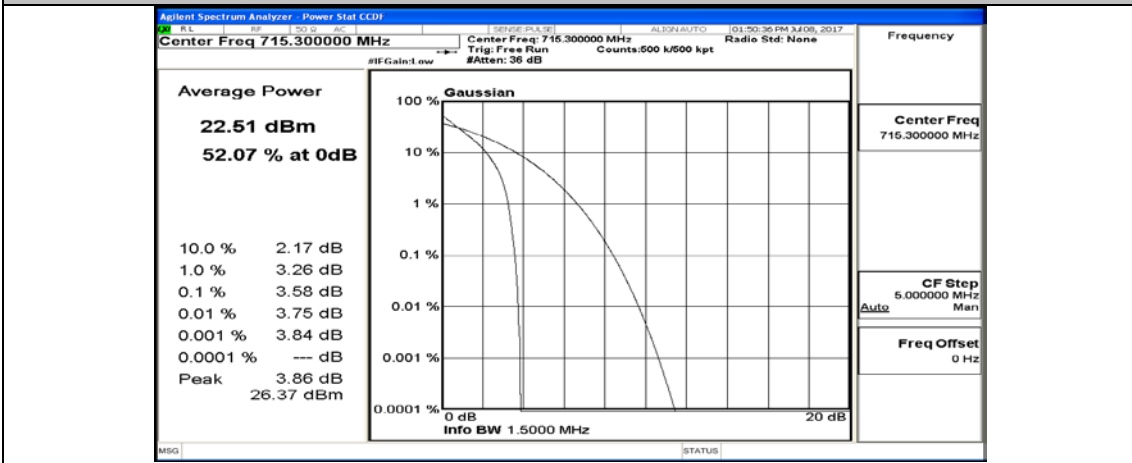
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



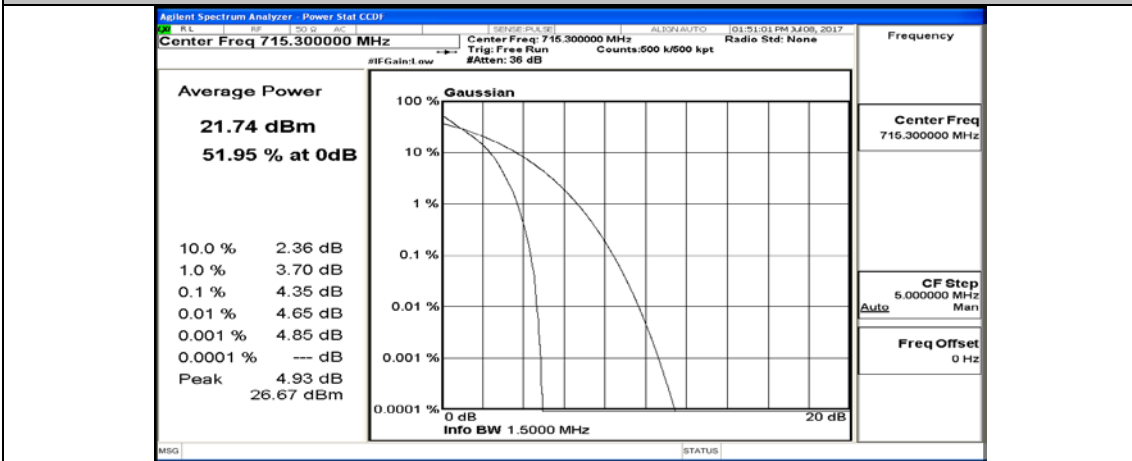
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



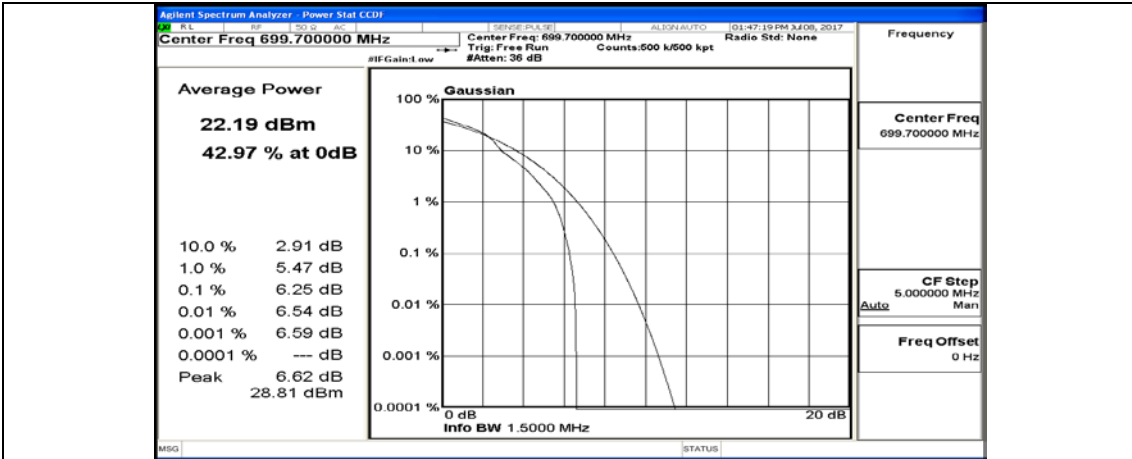
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



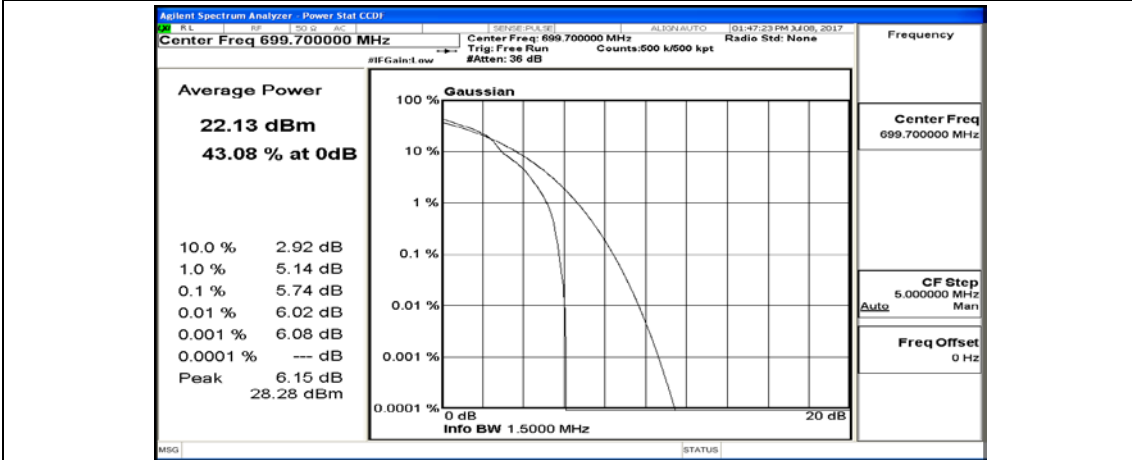
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



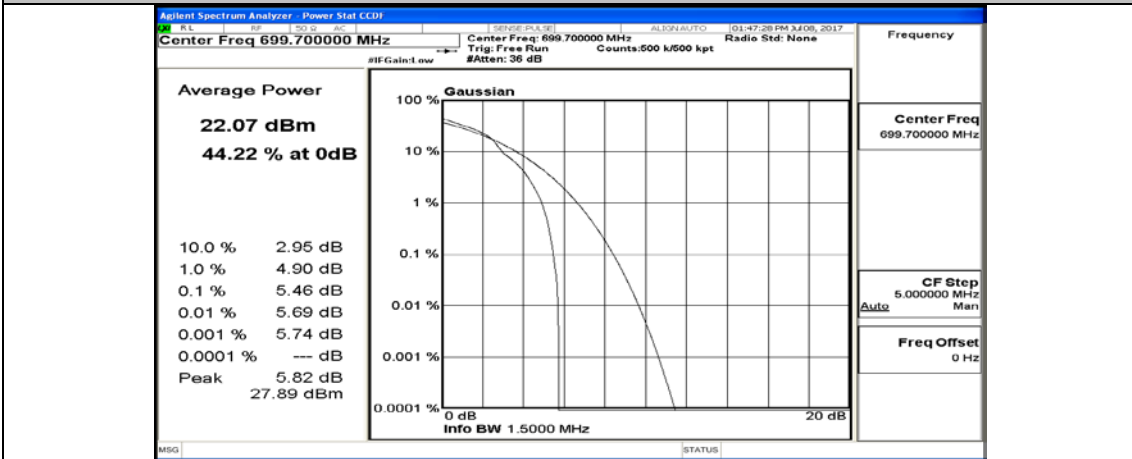
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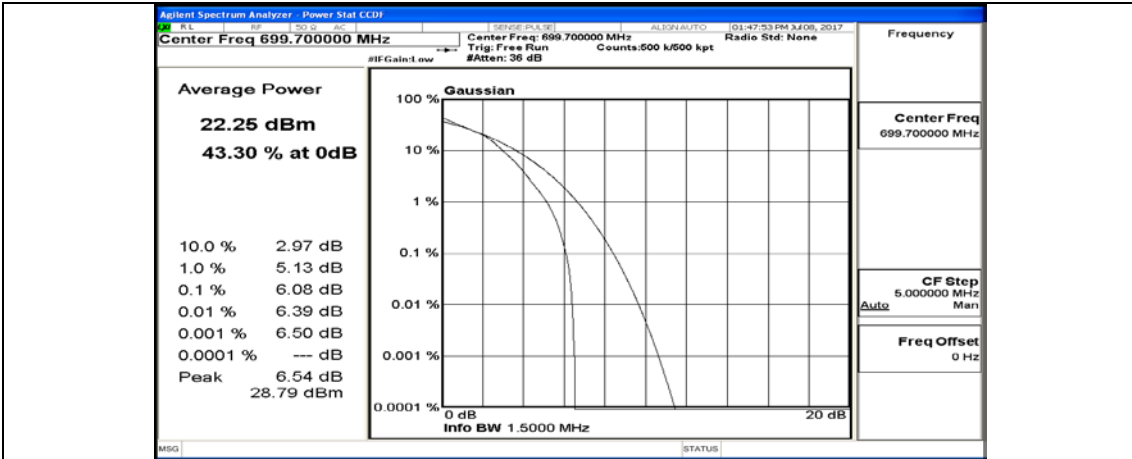
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



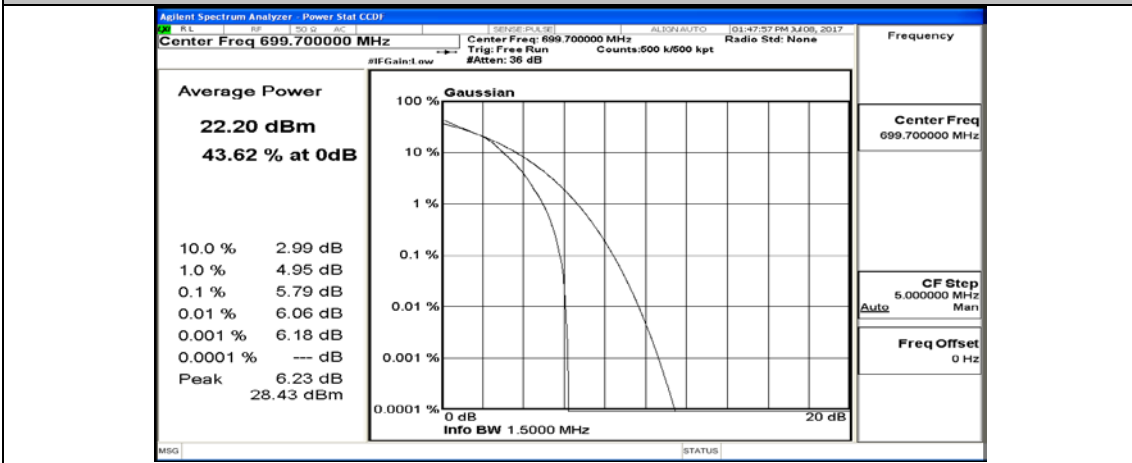
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



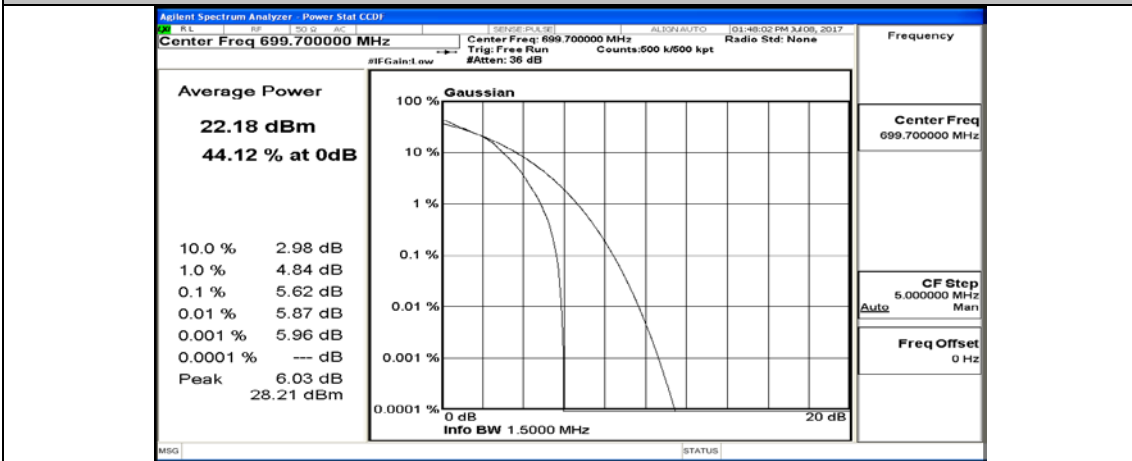
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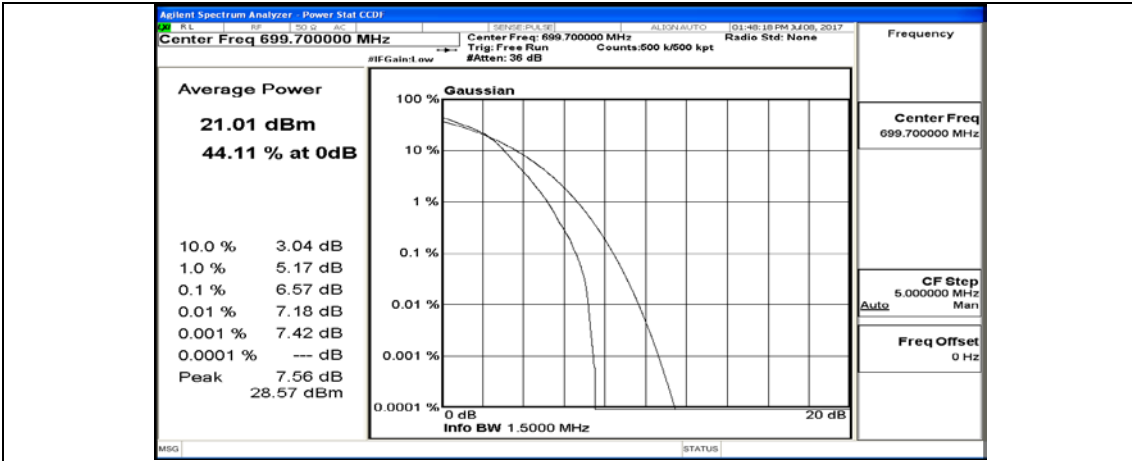
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2



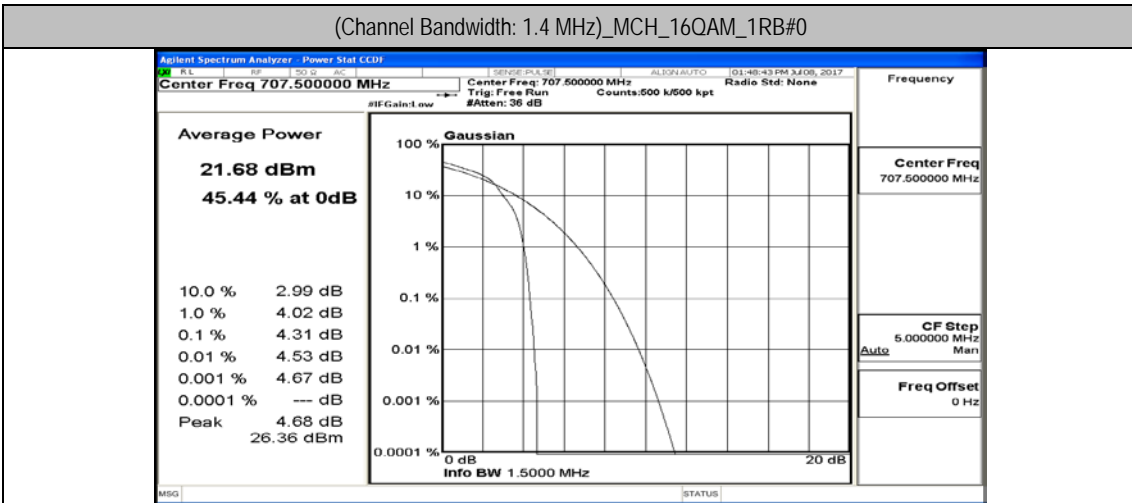
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3



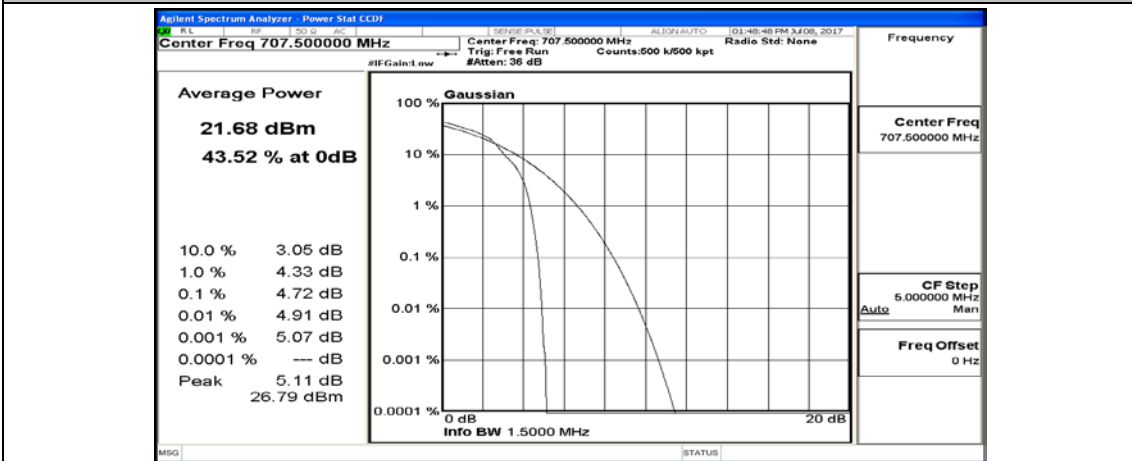
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0



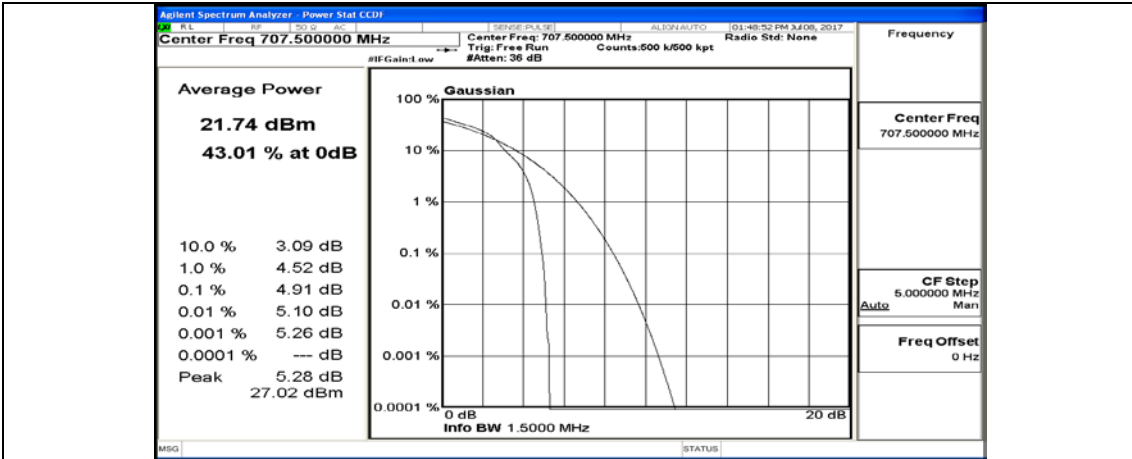
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



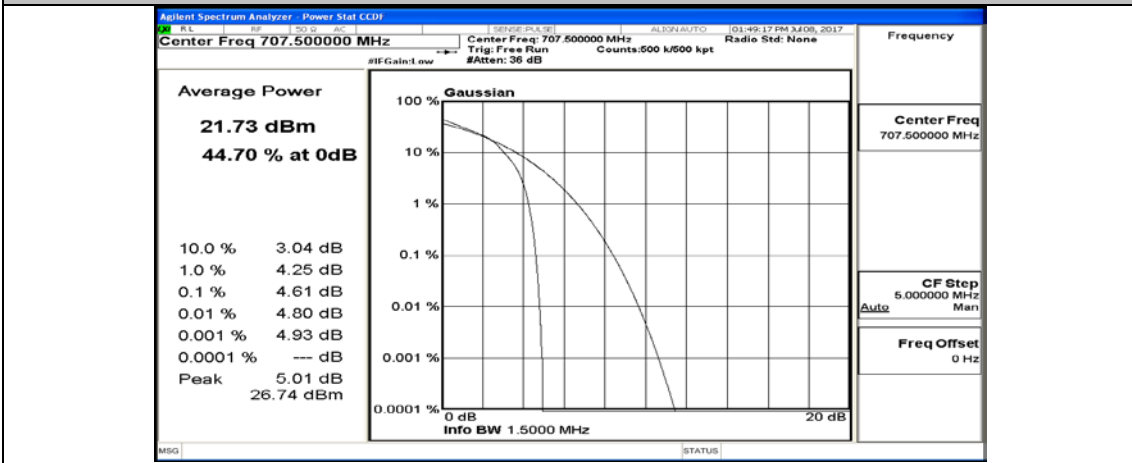
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



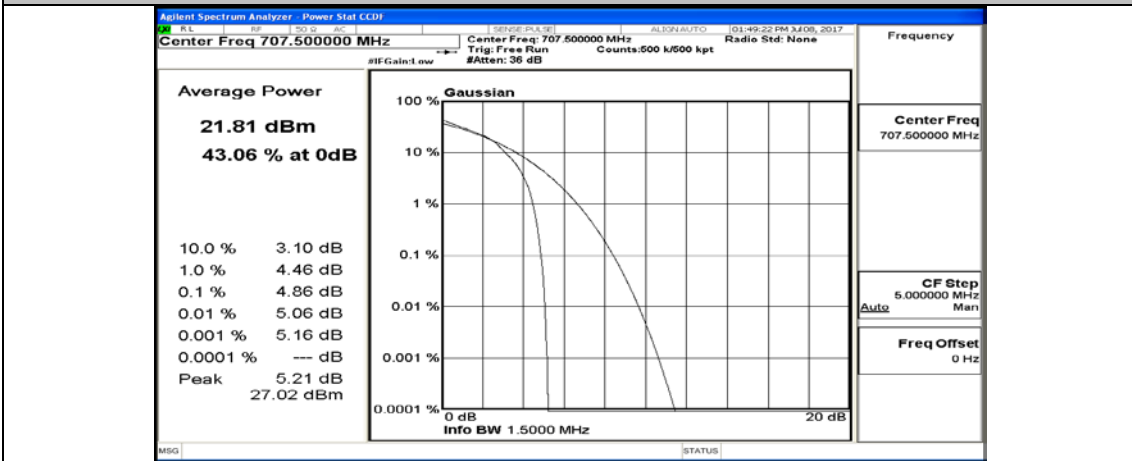
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



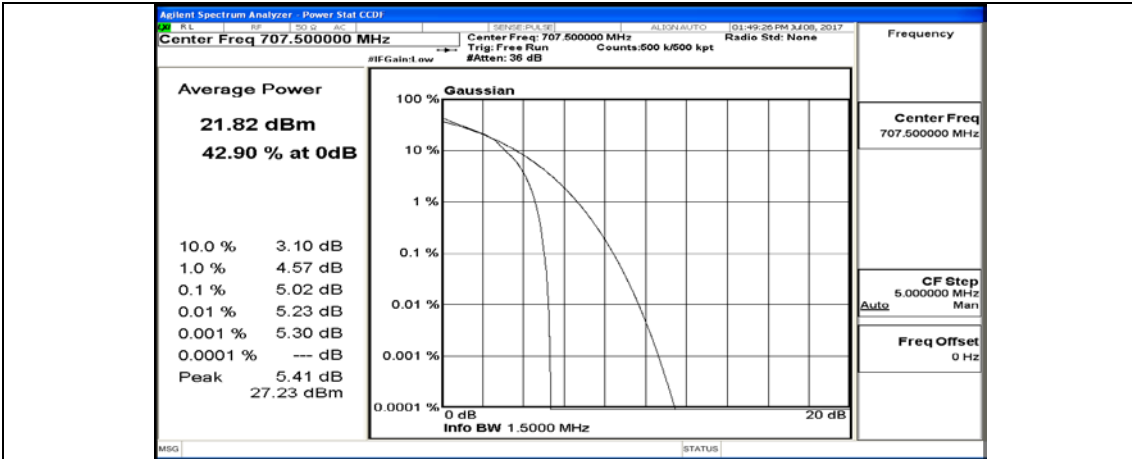
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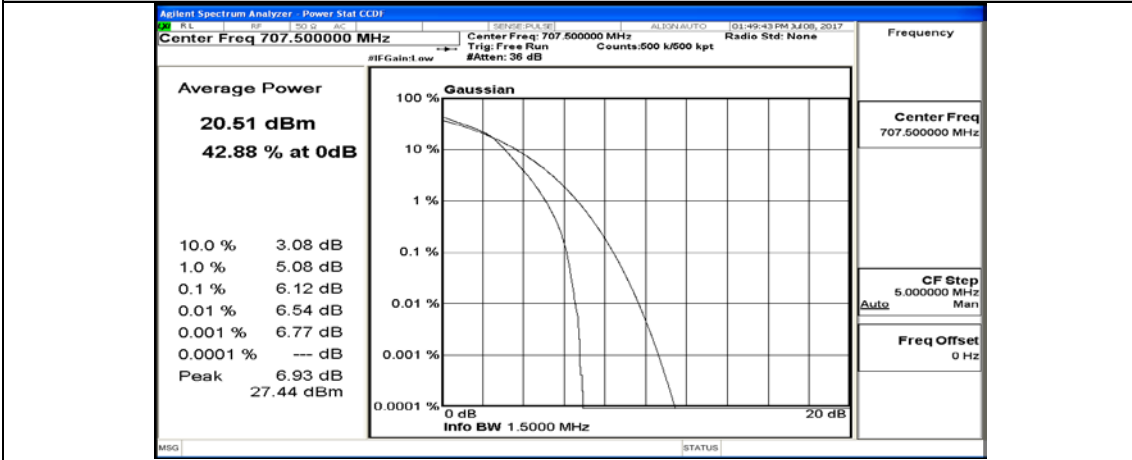
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2



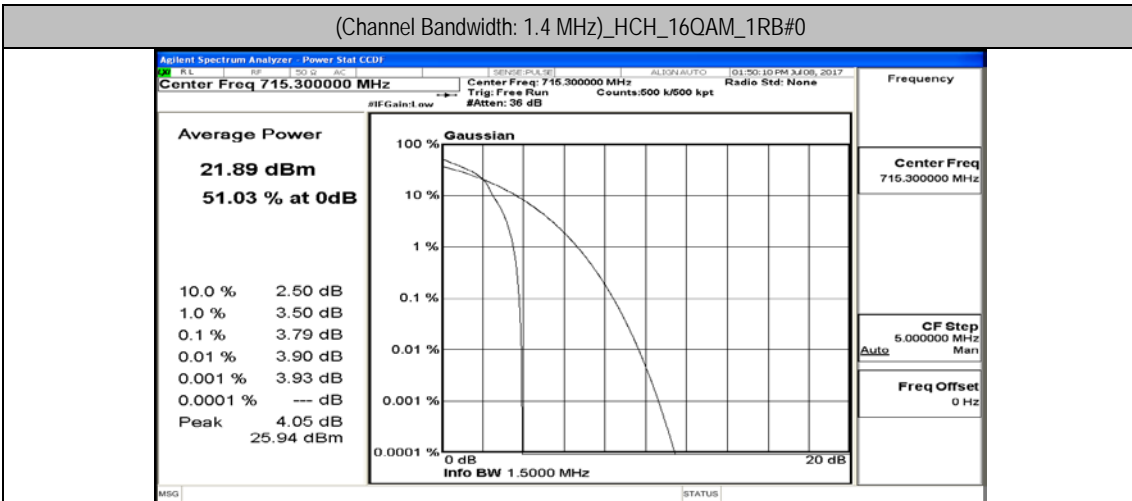
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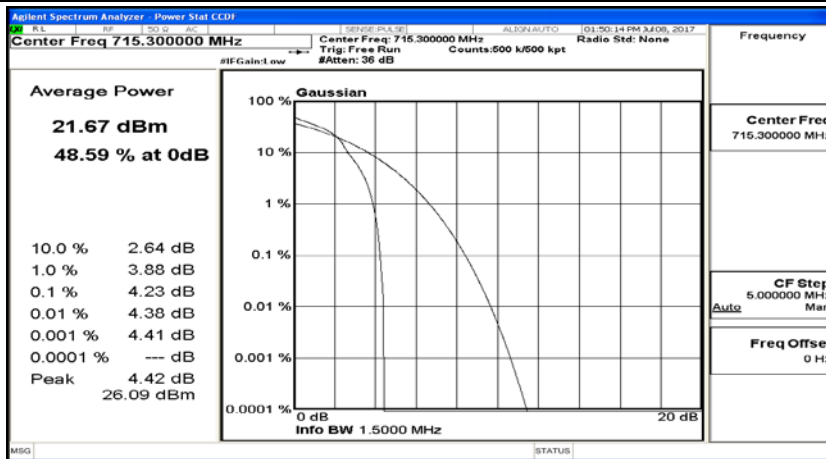
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0



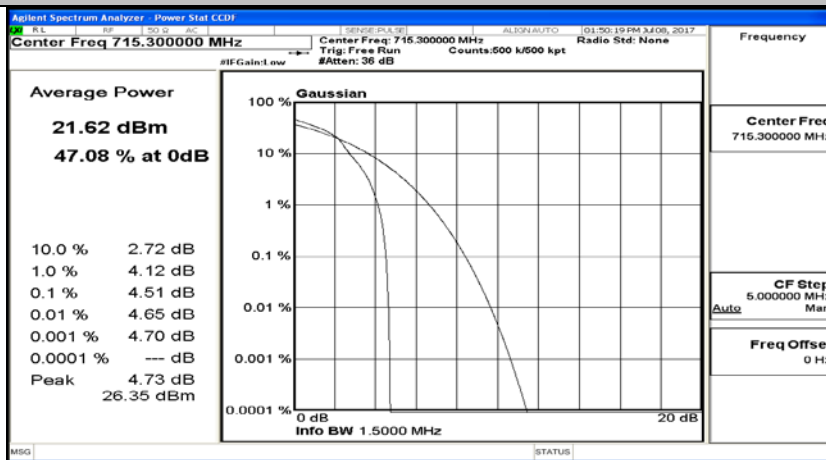
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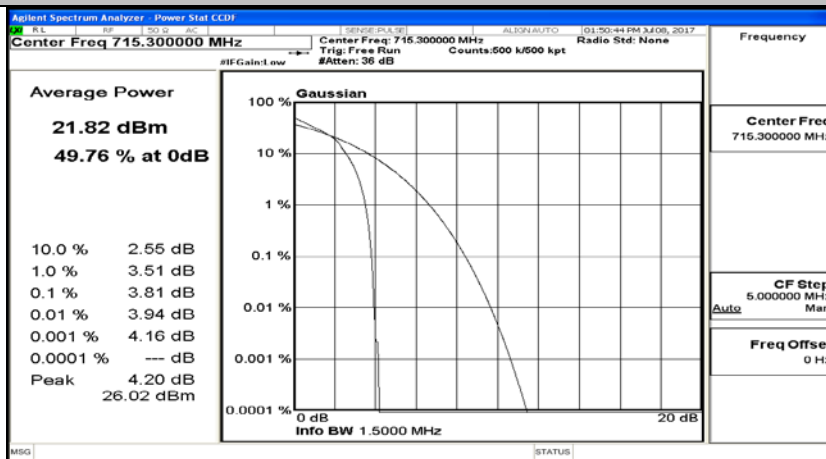
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



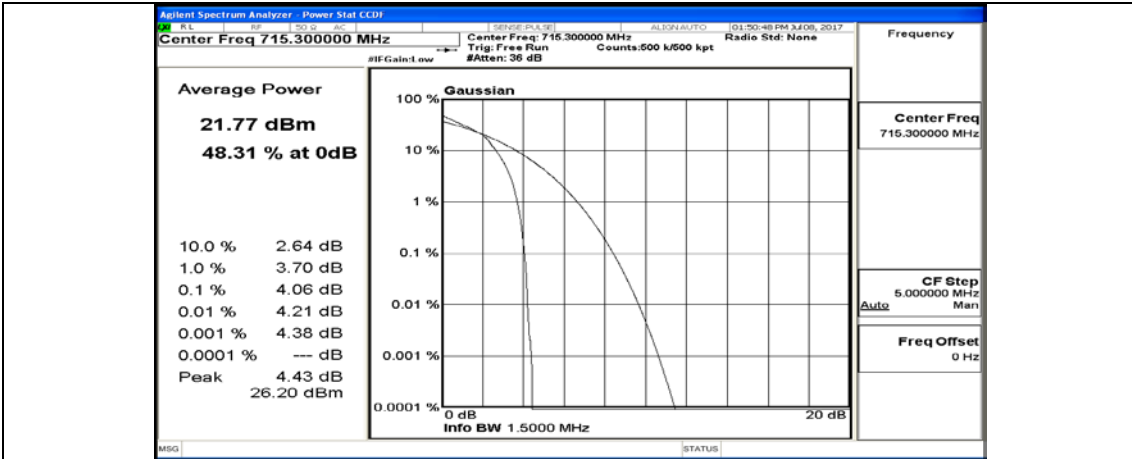
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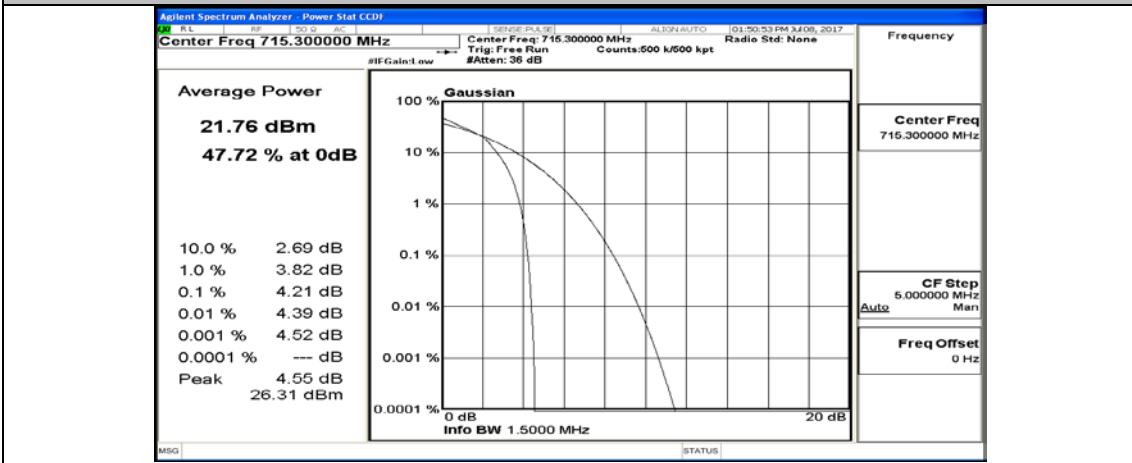
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



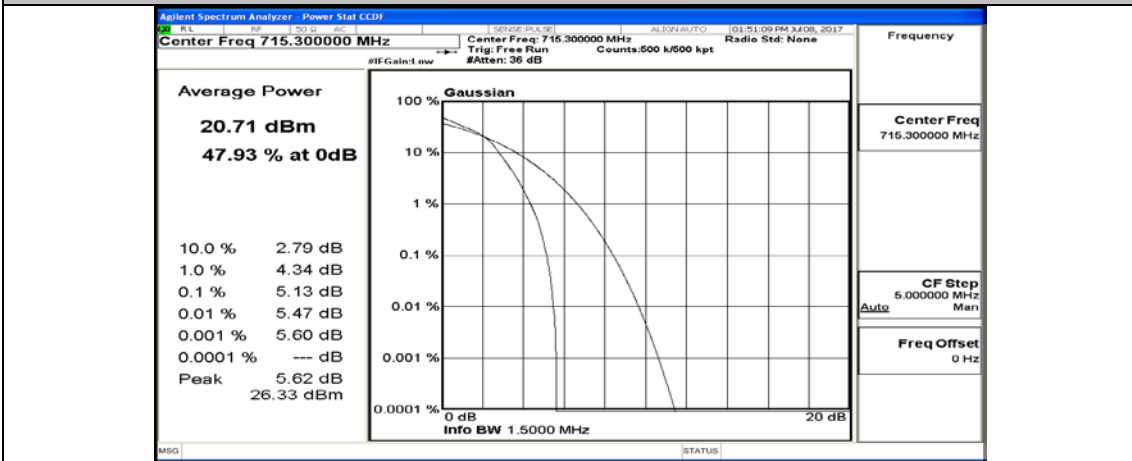
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

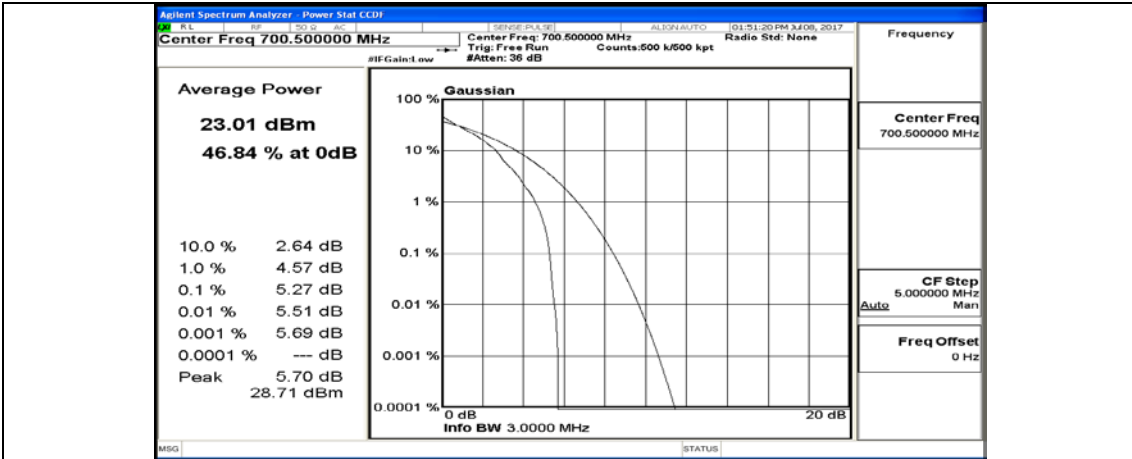


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

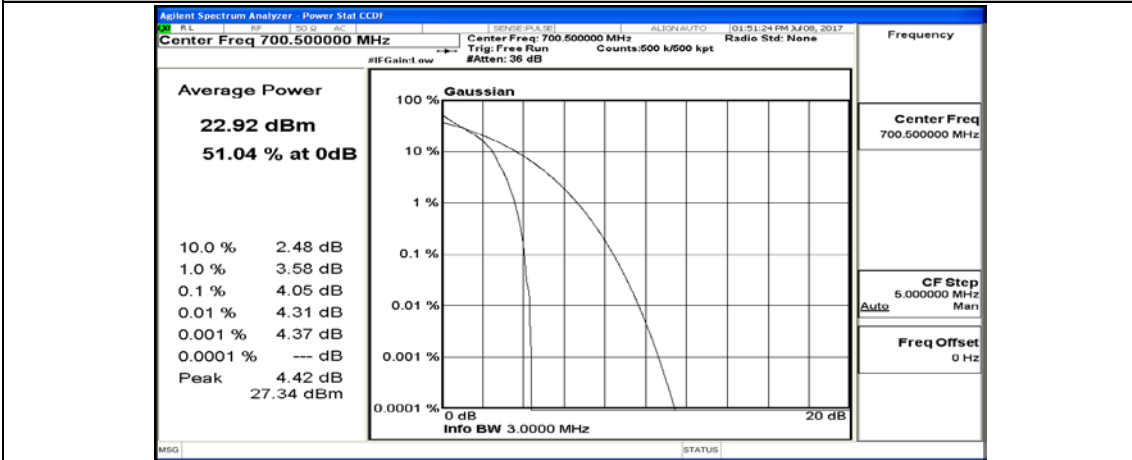


Channel Bandwidth: 3 MHz

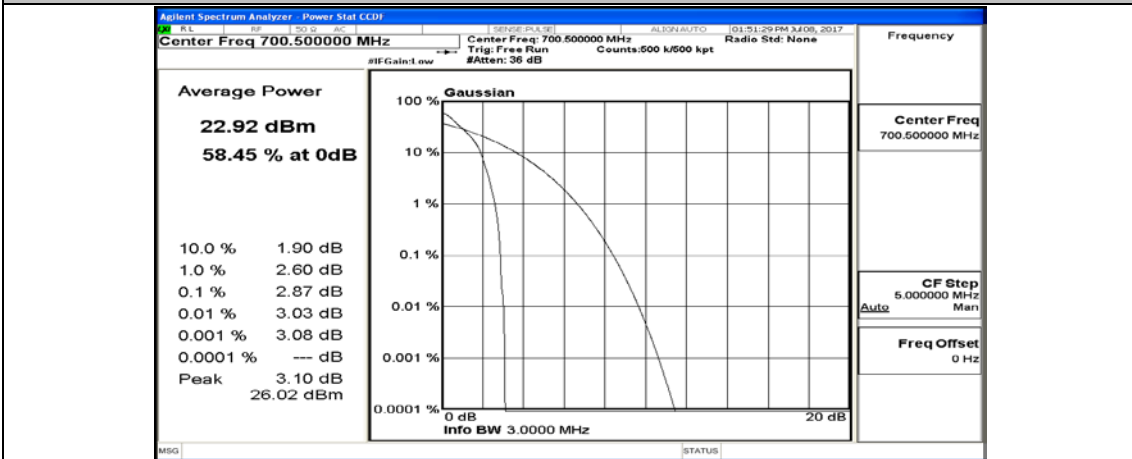
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



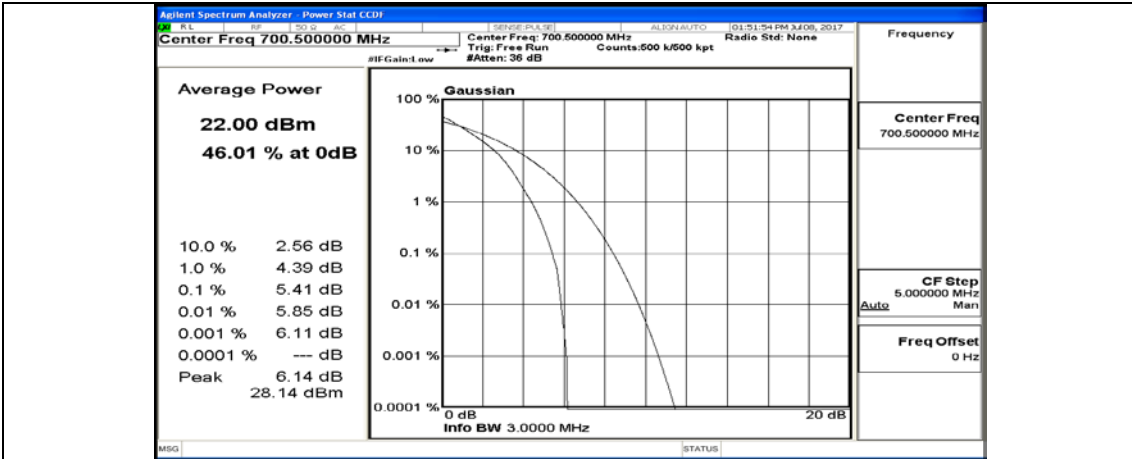
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



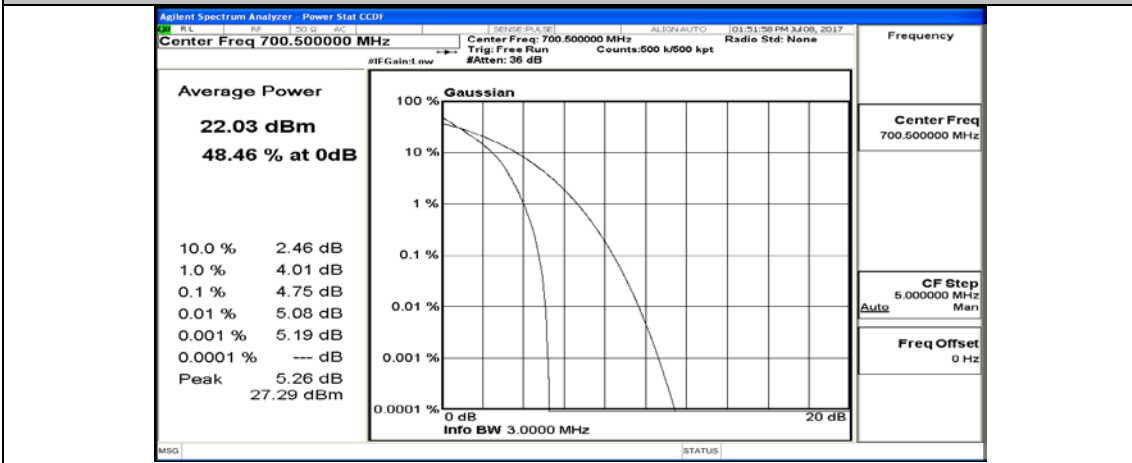
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



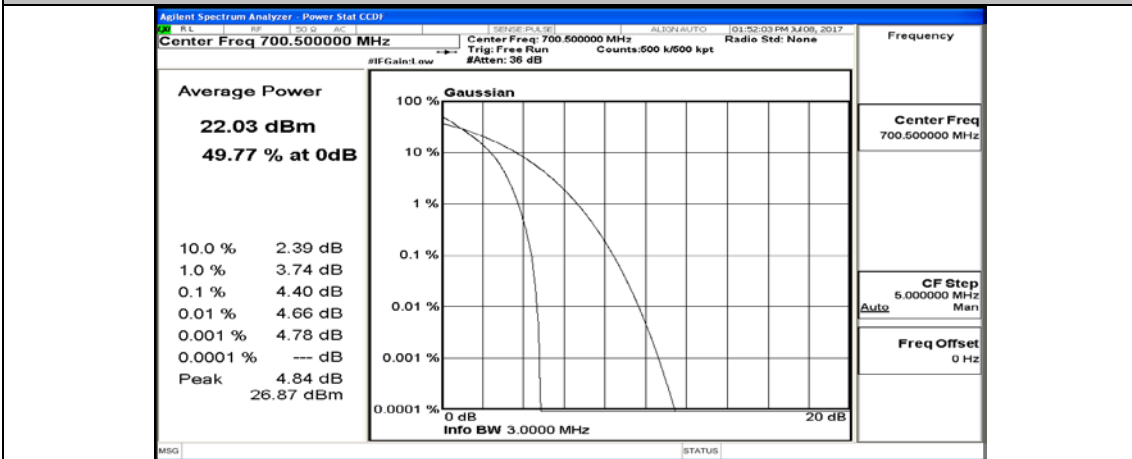
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0



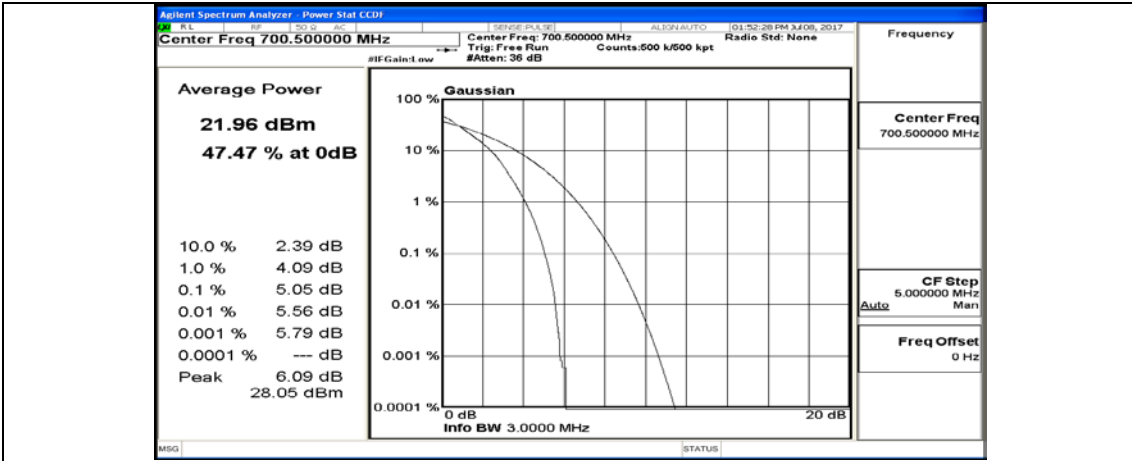
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4



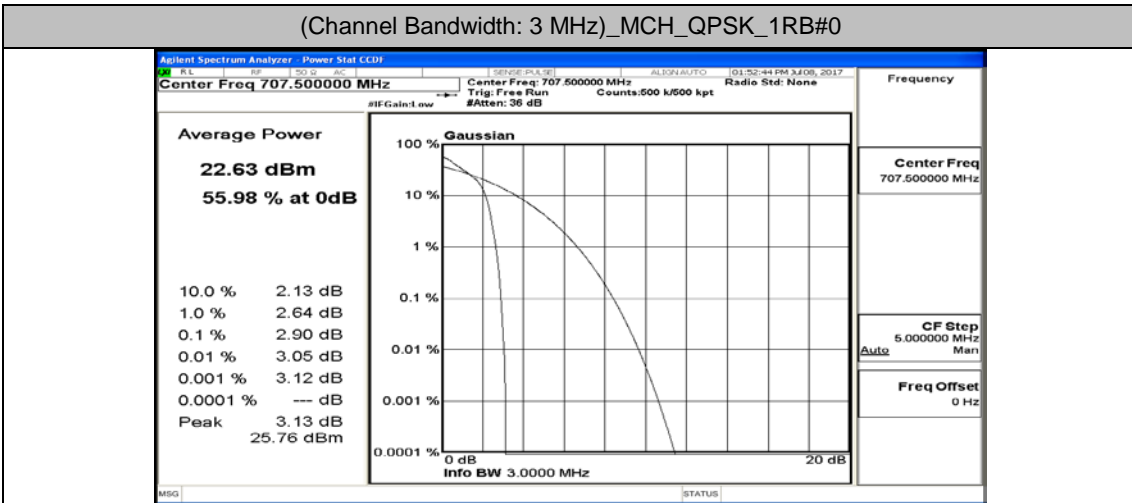
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7



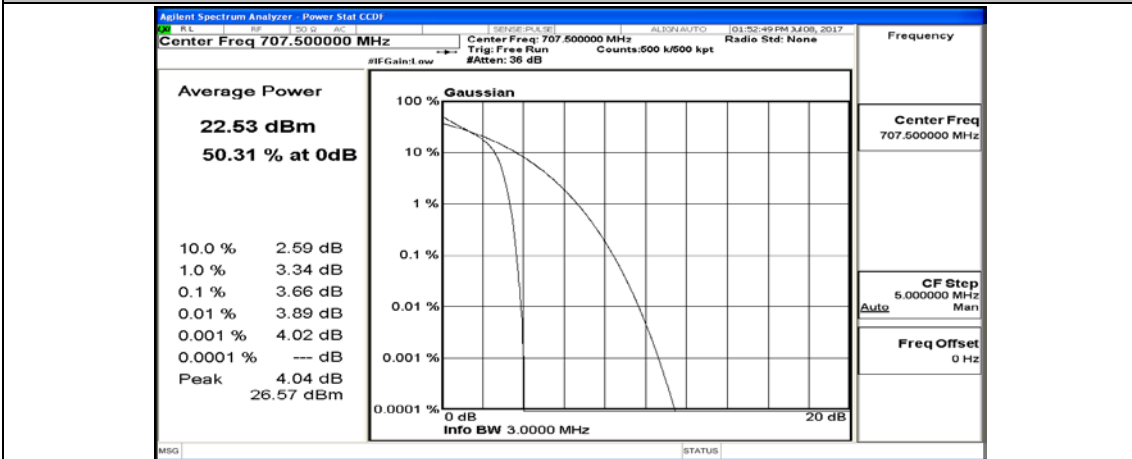
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



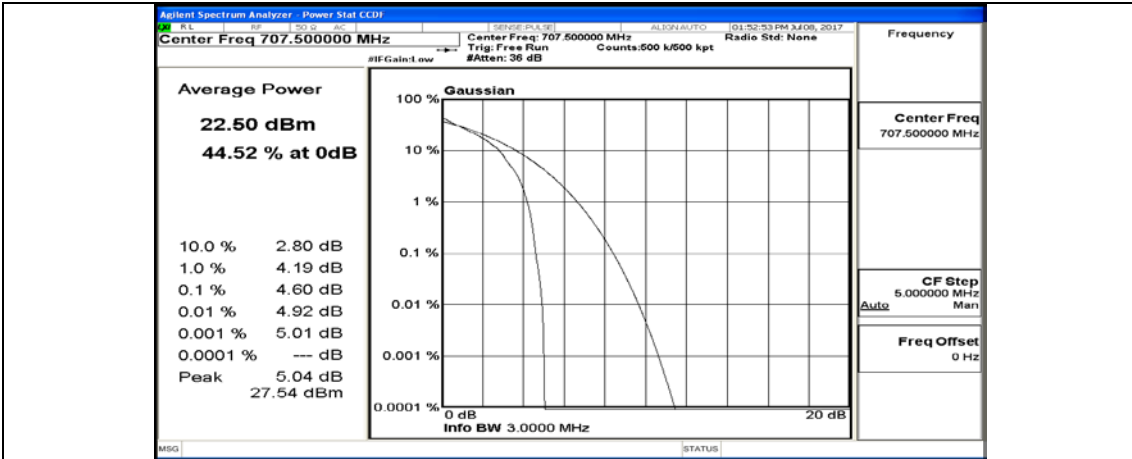
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0



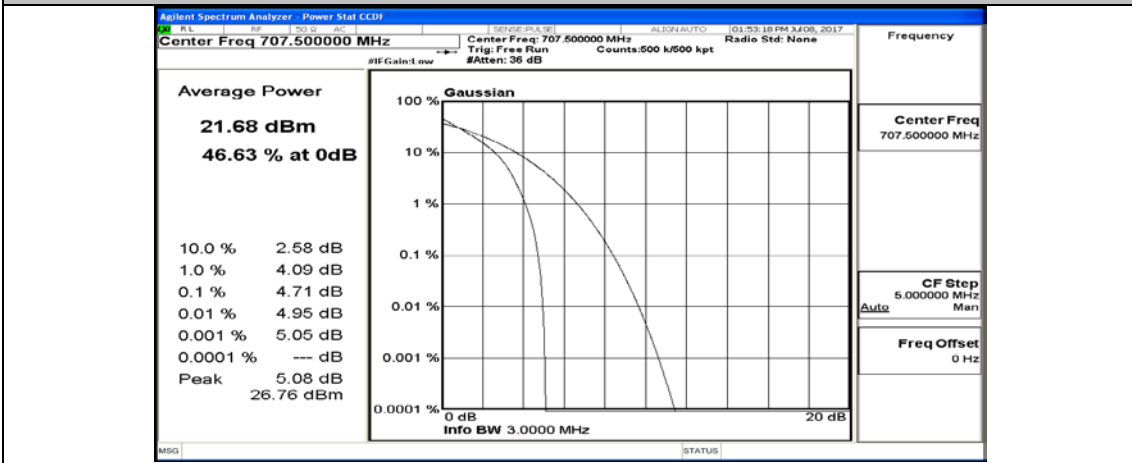
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



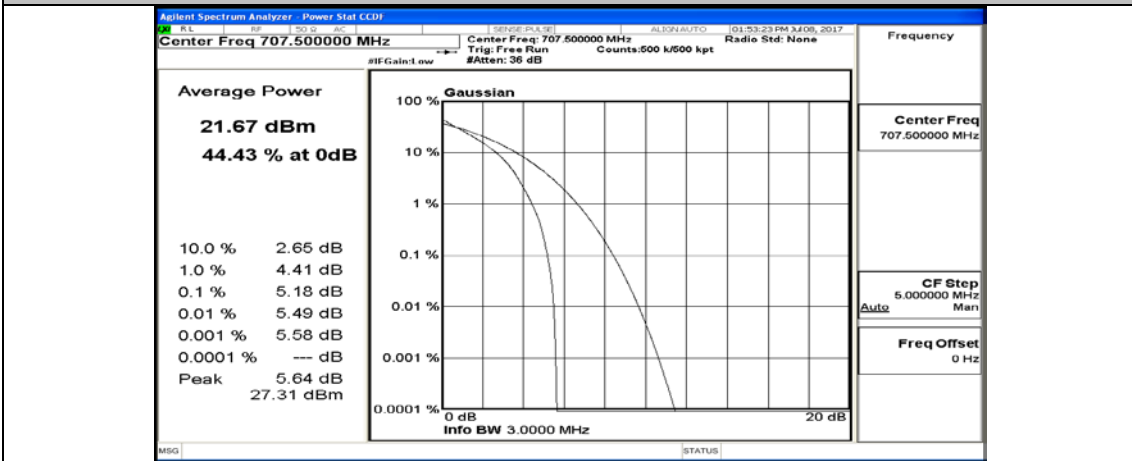
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14



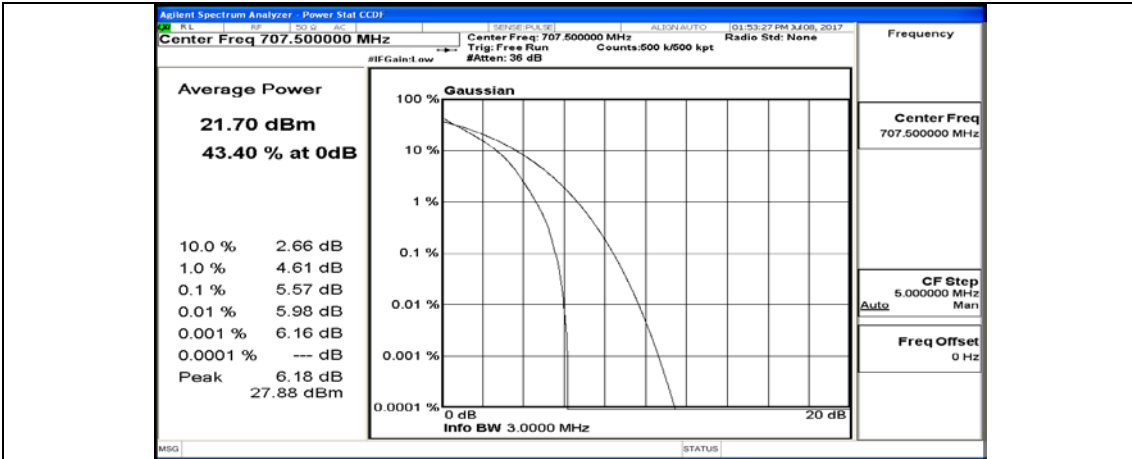
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0



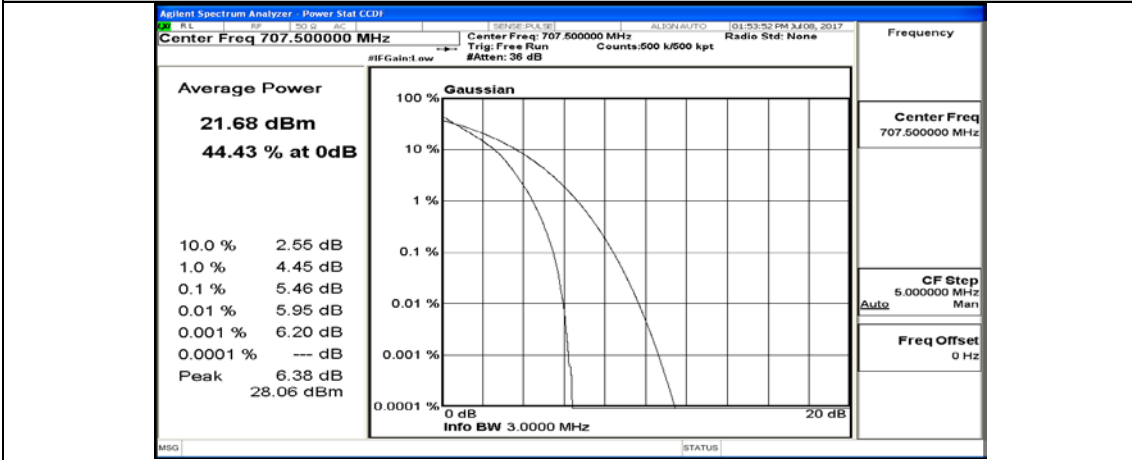
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4



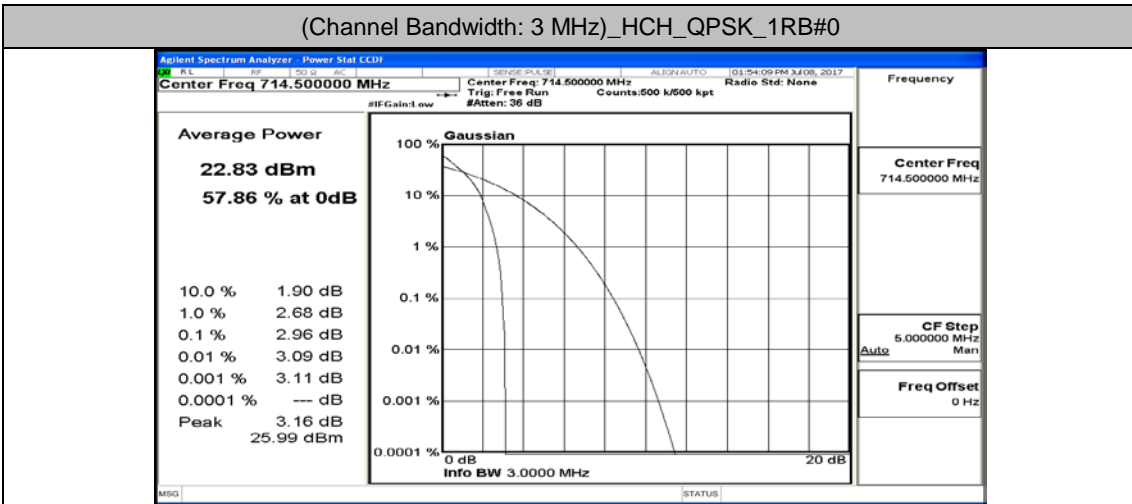
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7



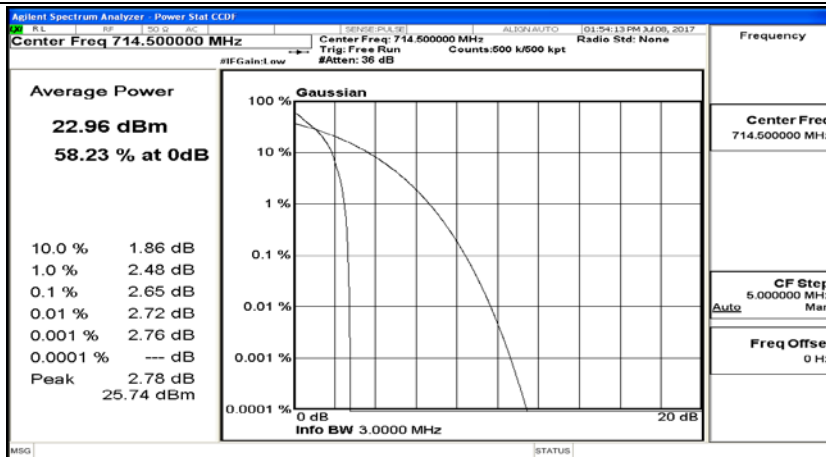
(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0



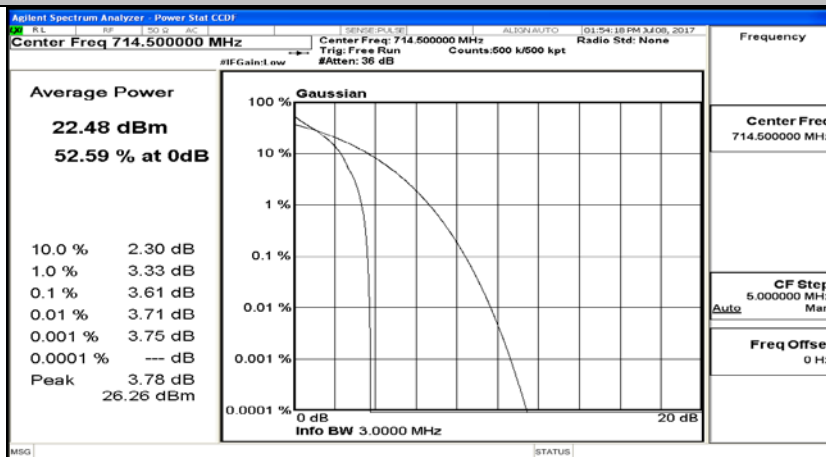
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



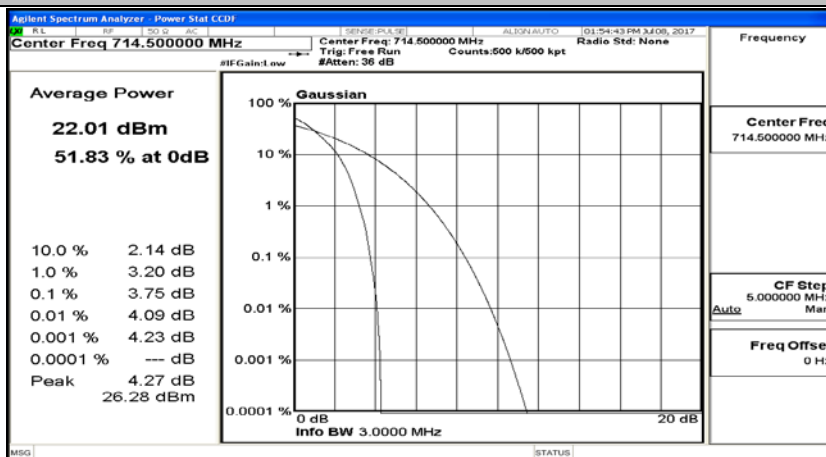
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



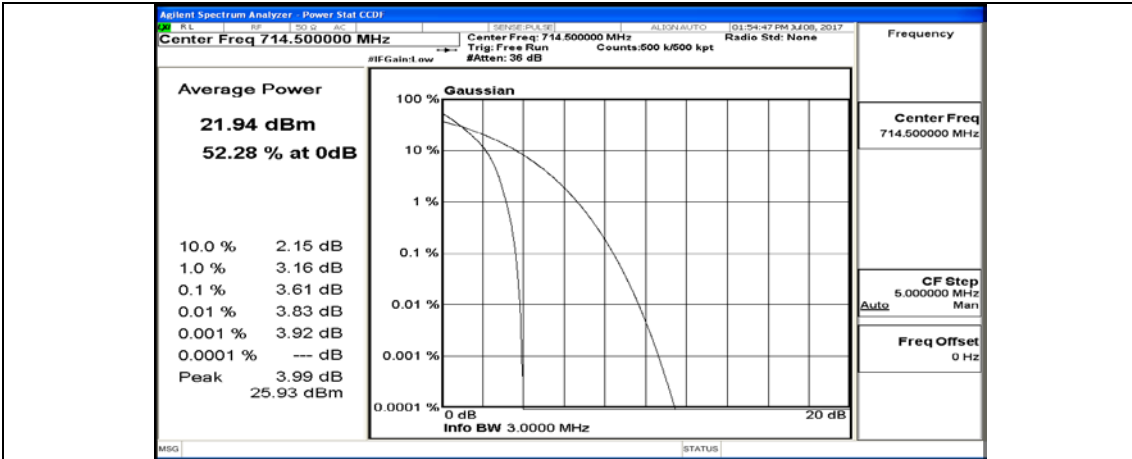
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



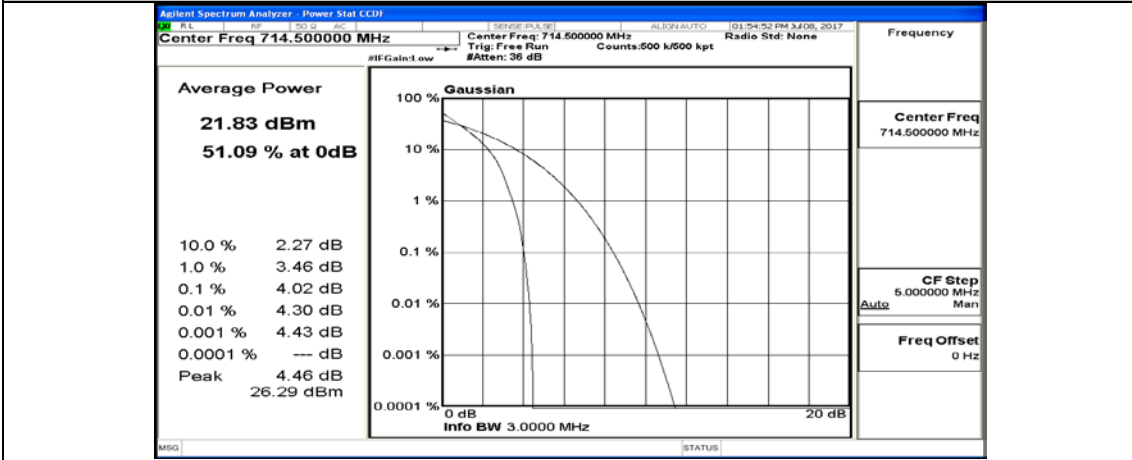
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0



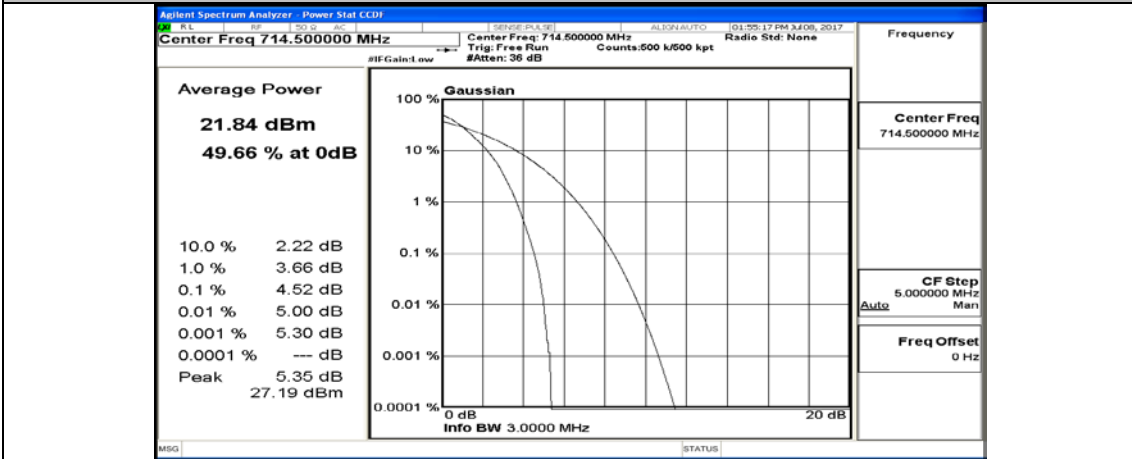
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4



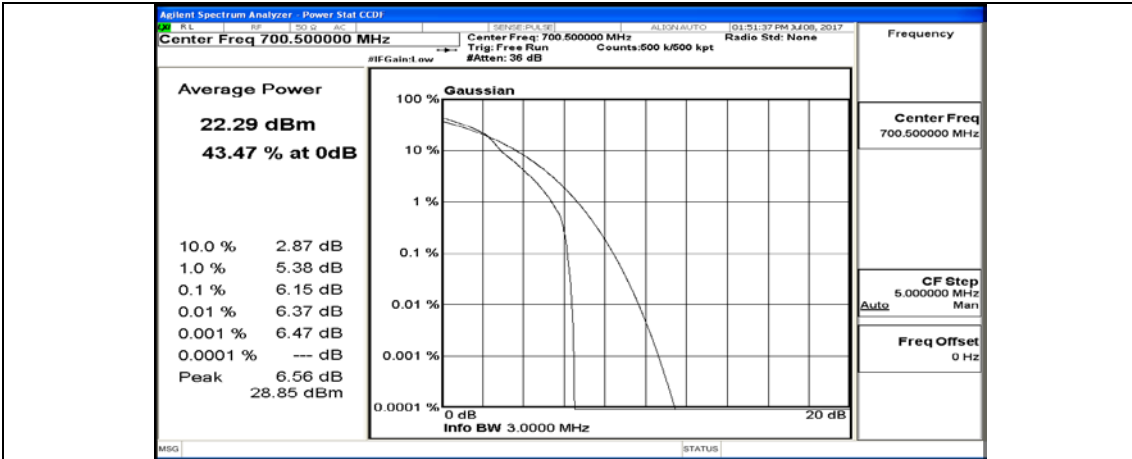
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



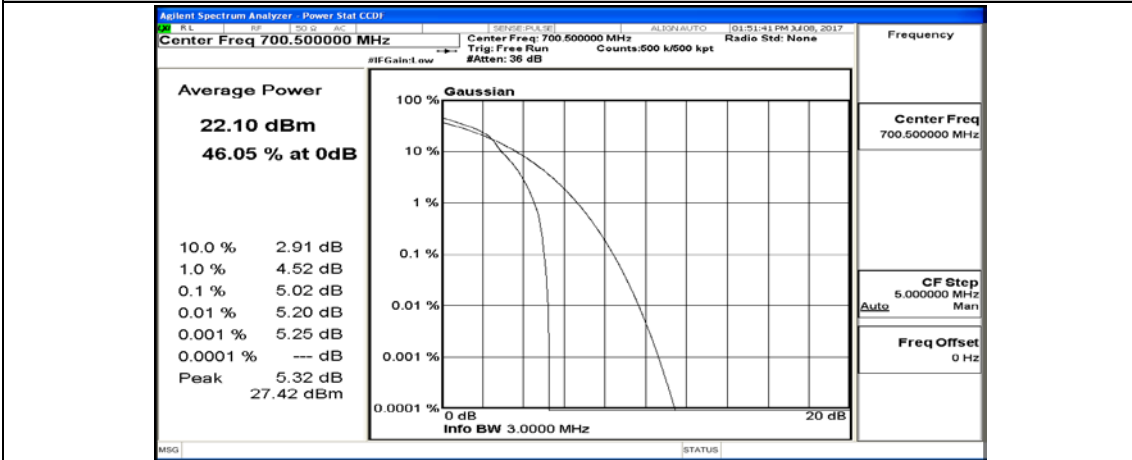
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



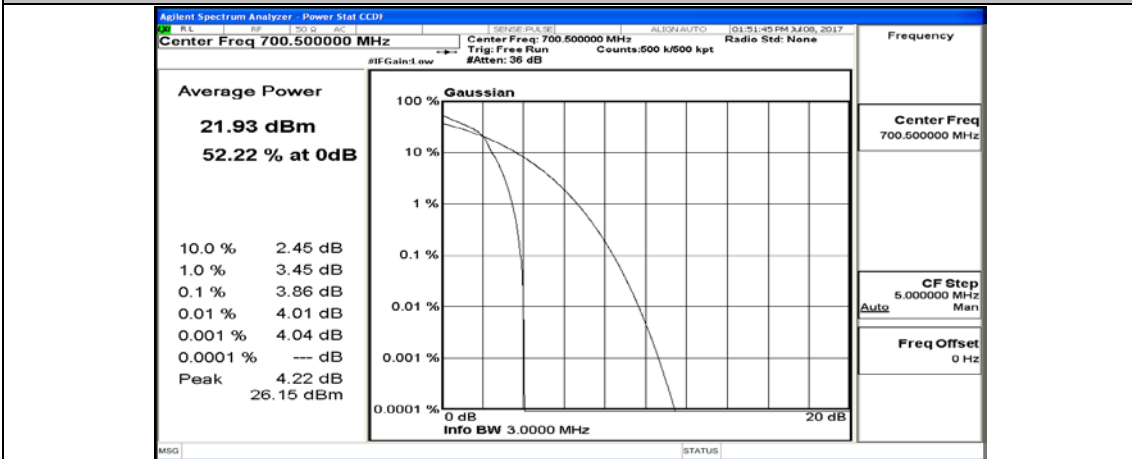
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



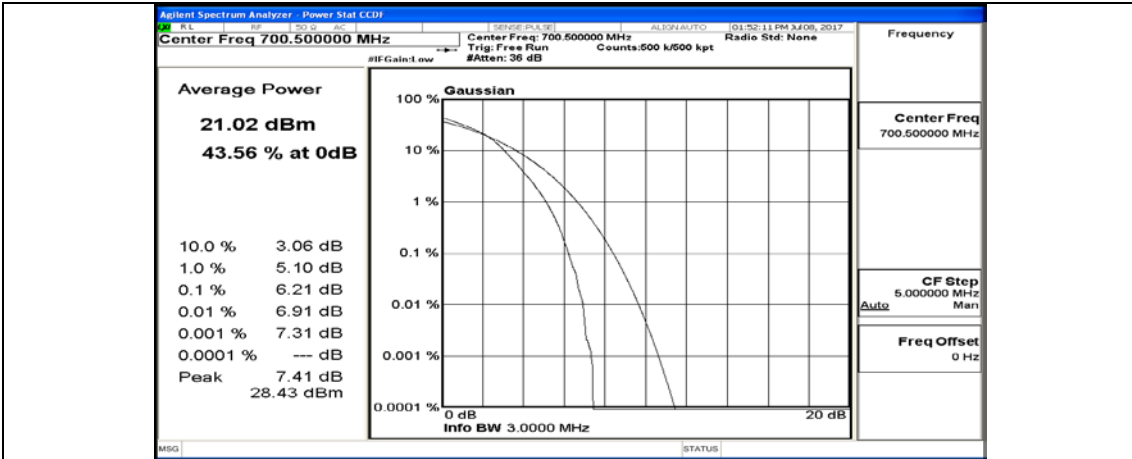
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



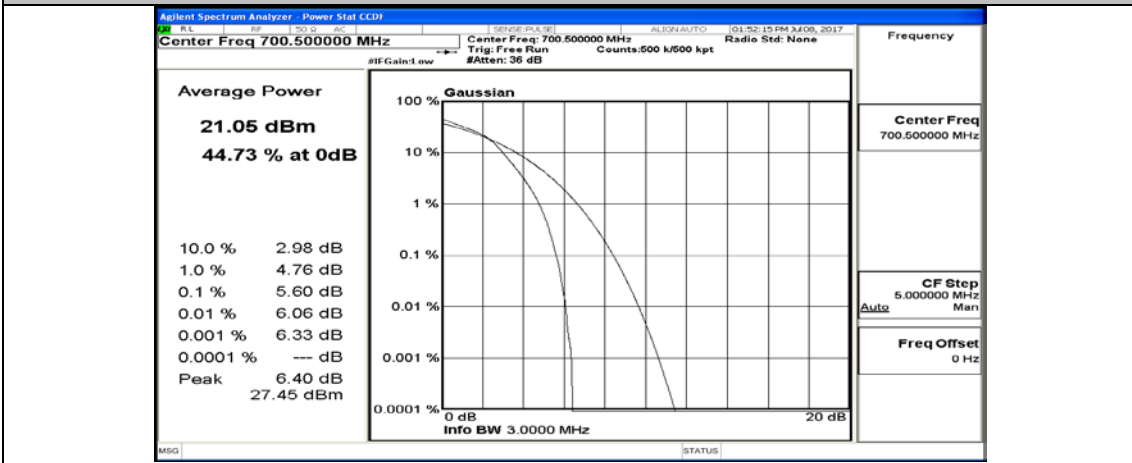
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14



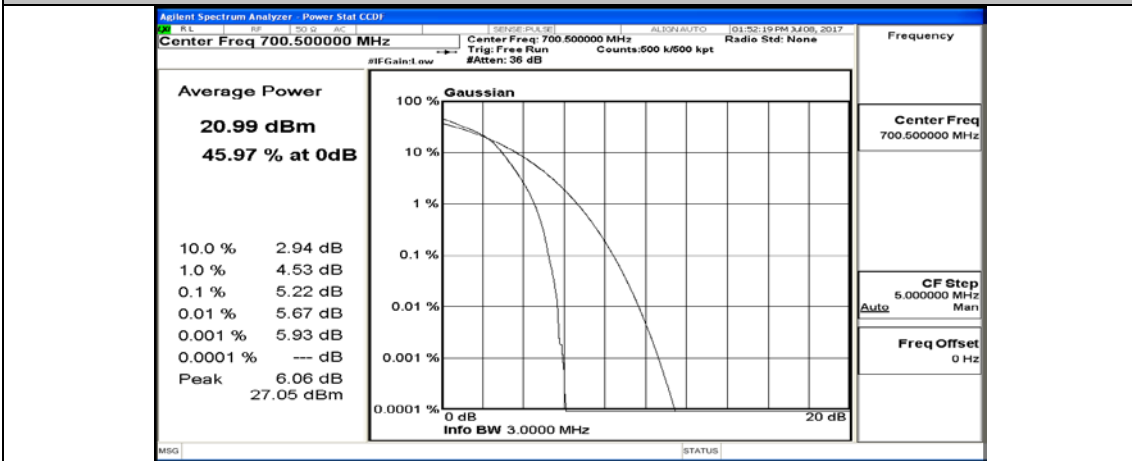
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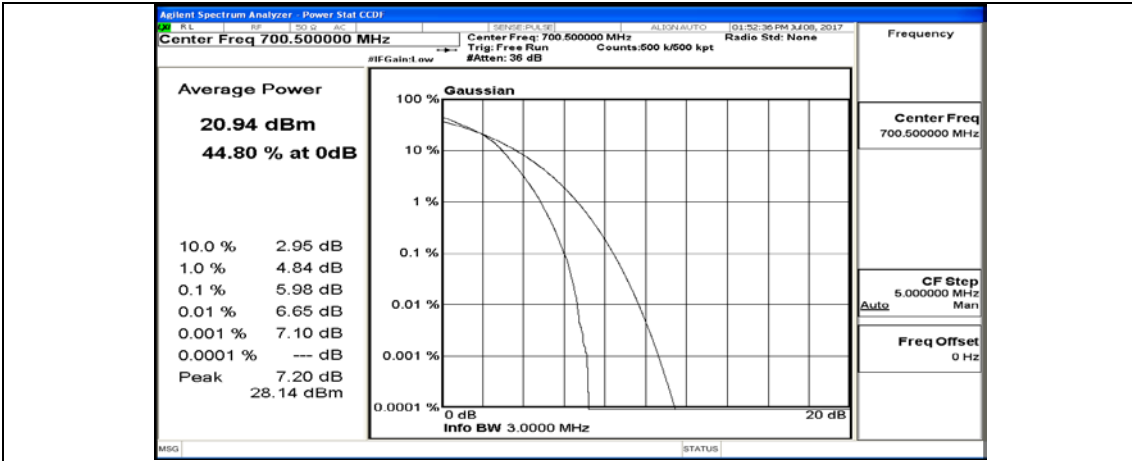
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4



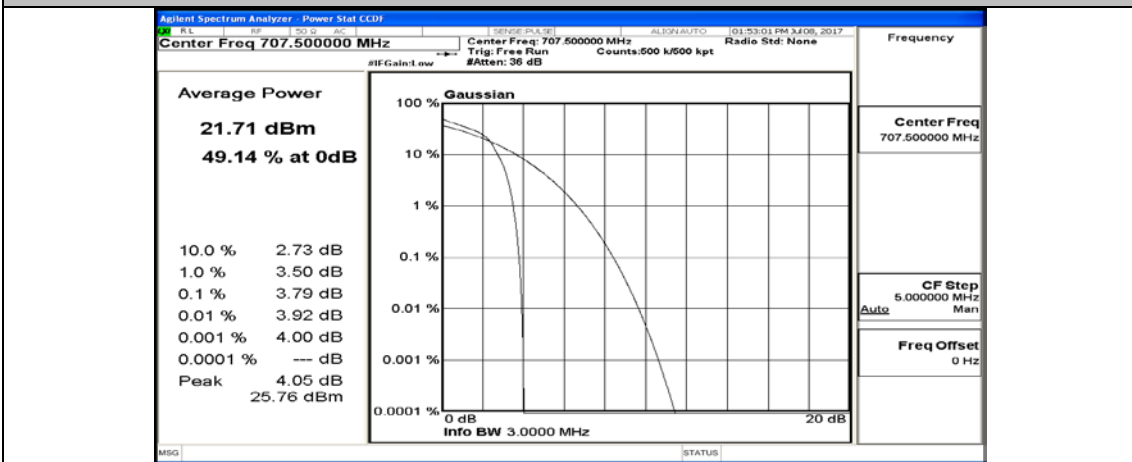
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



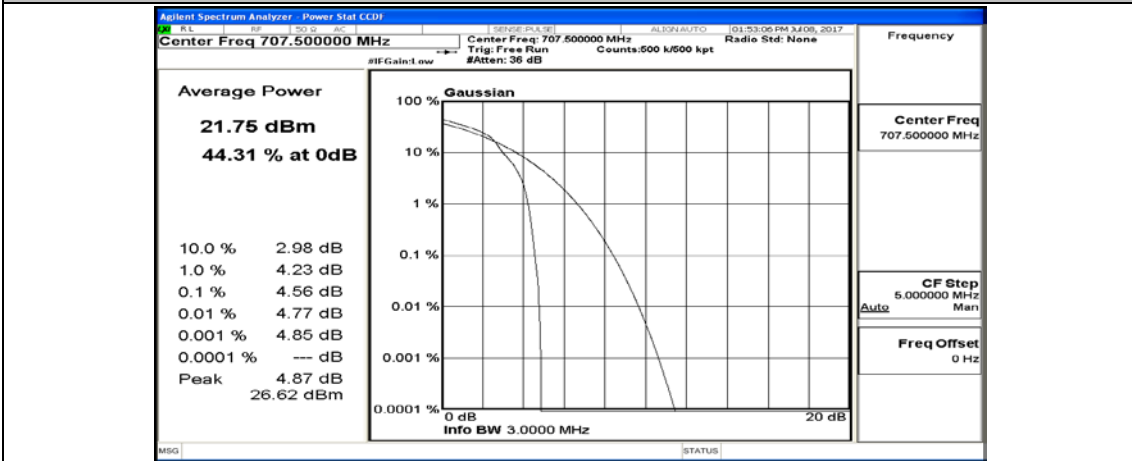
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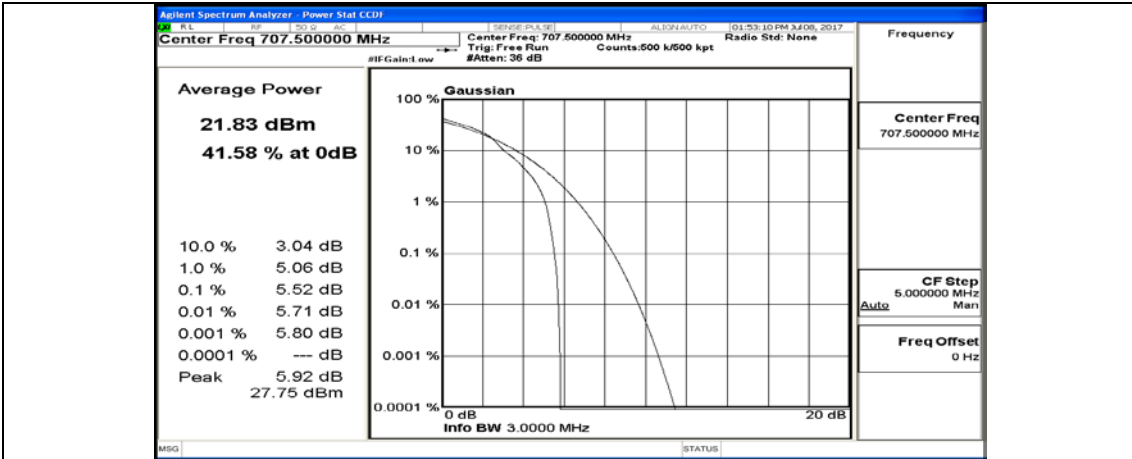
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



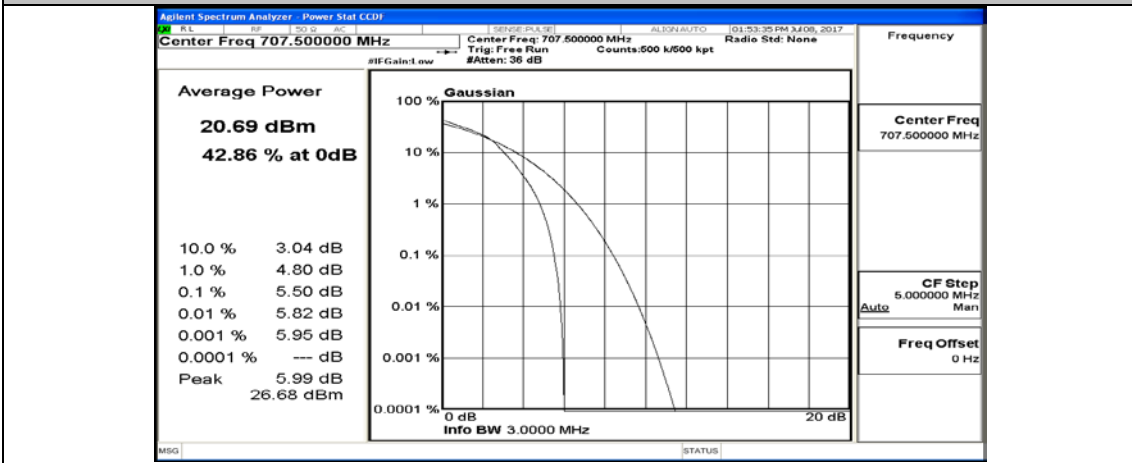
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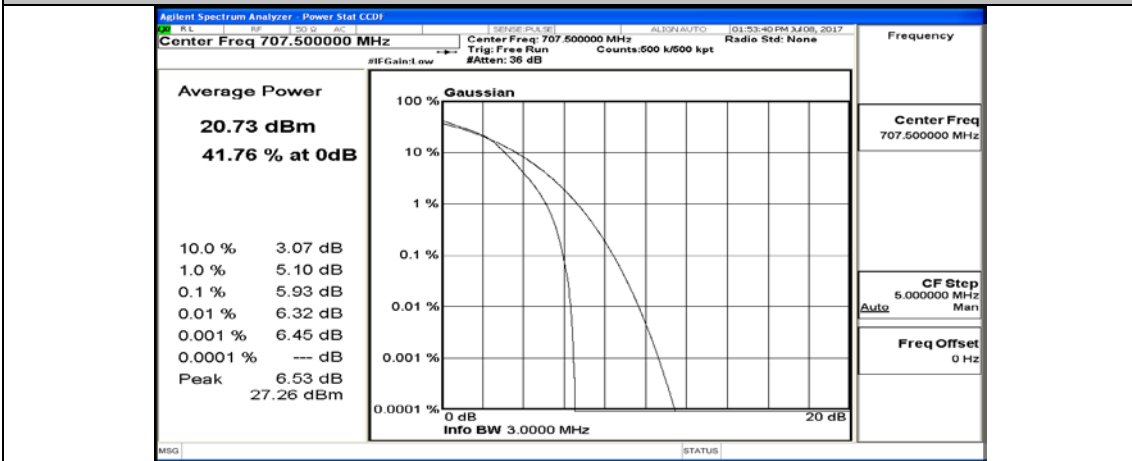
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



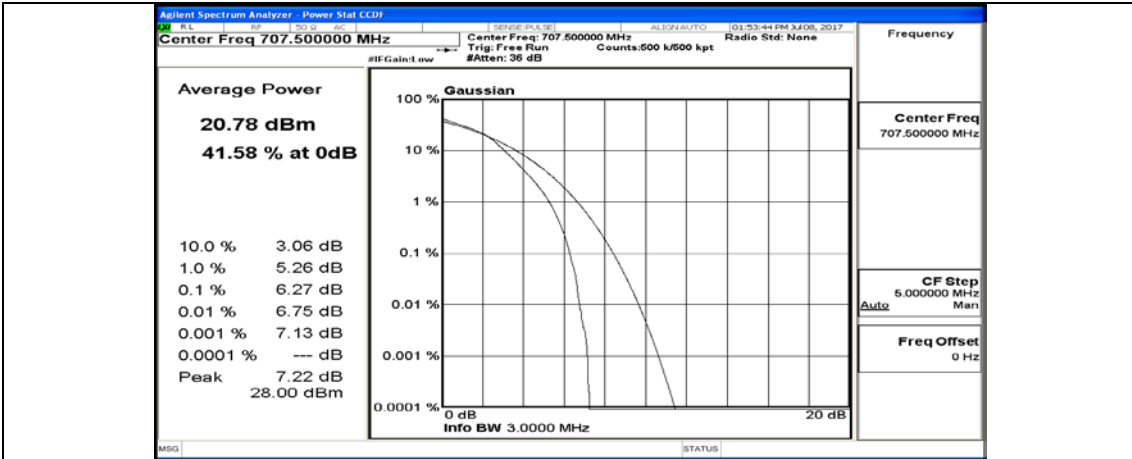
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0



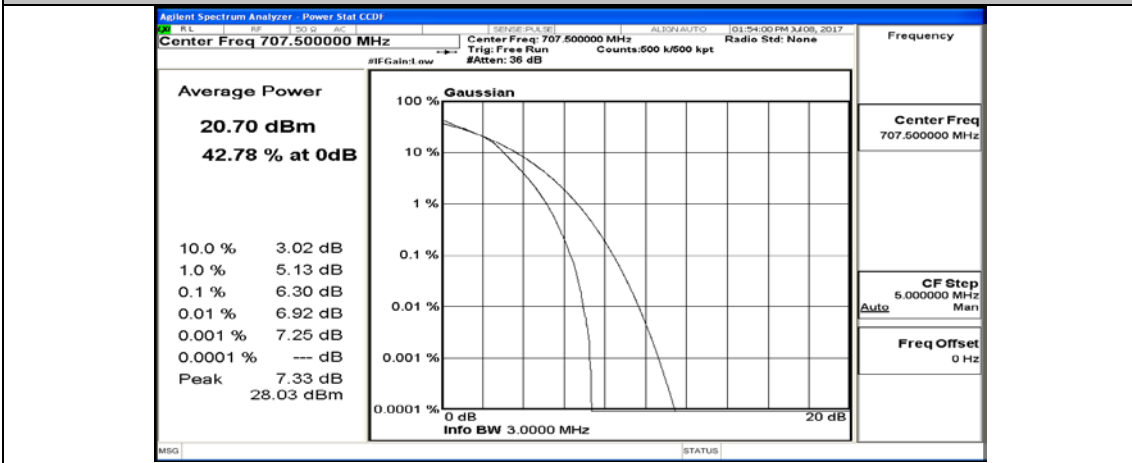
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4



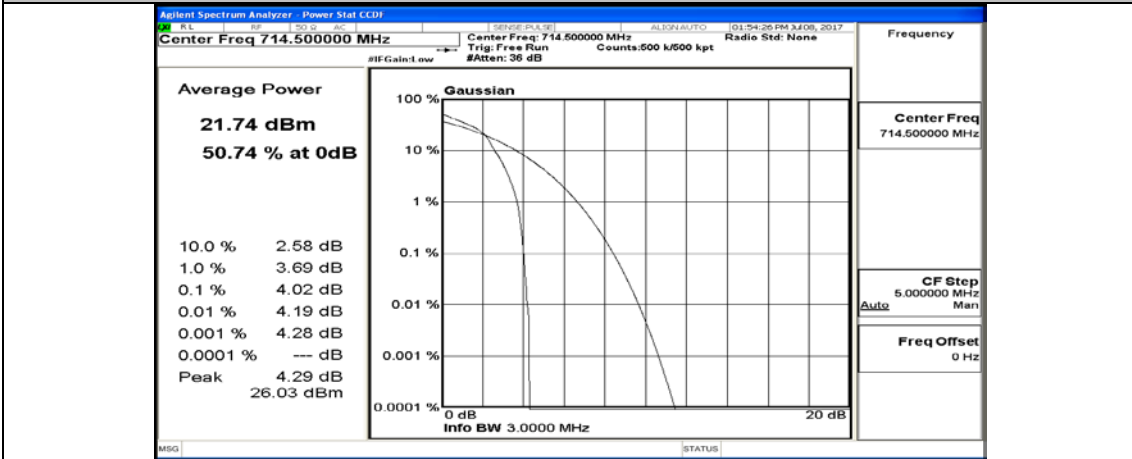
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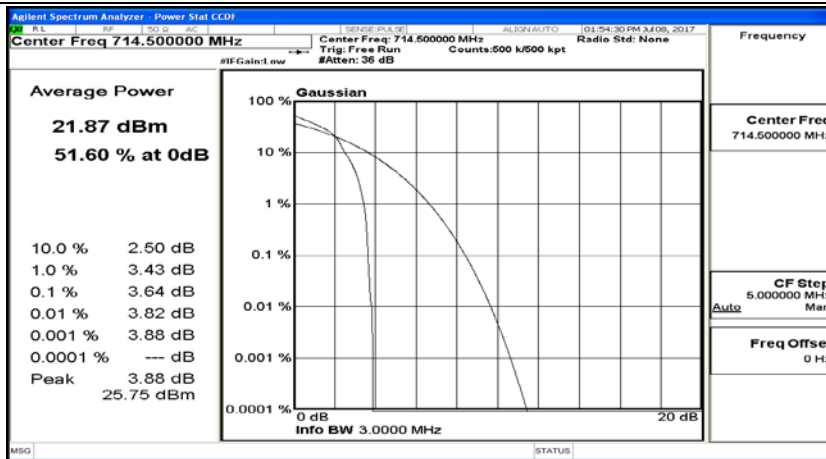
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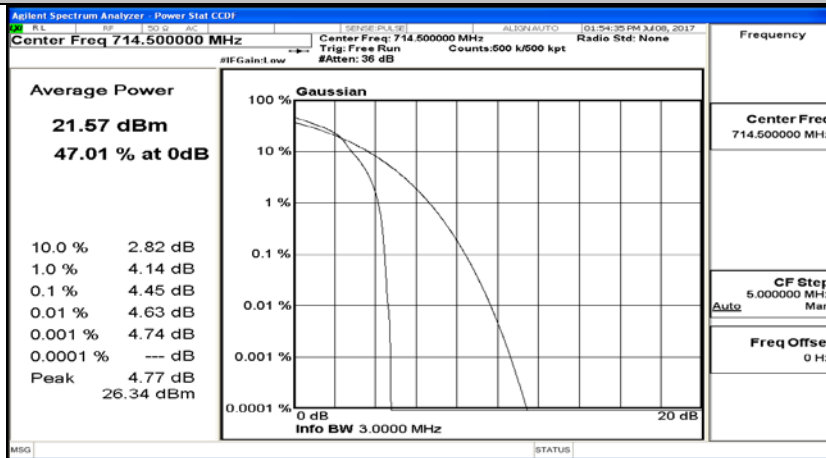
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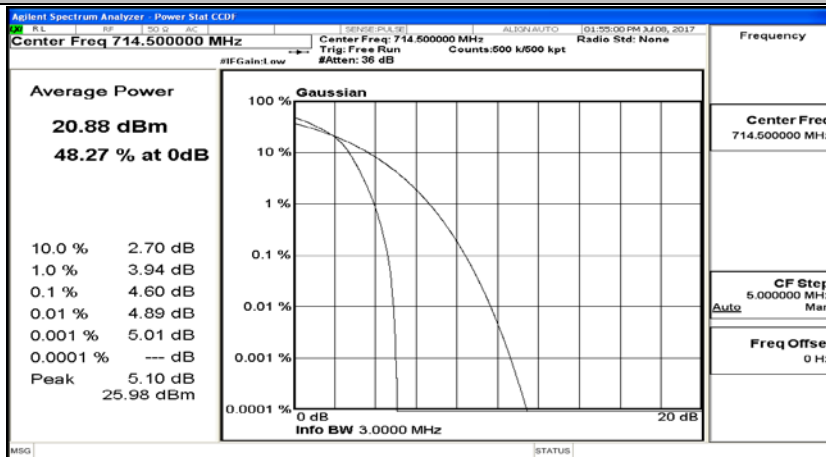
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



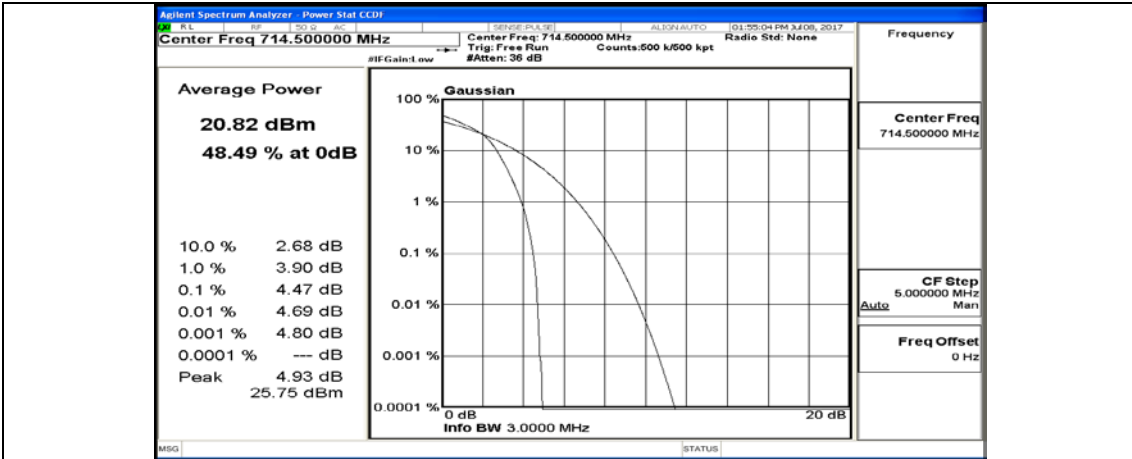
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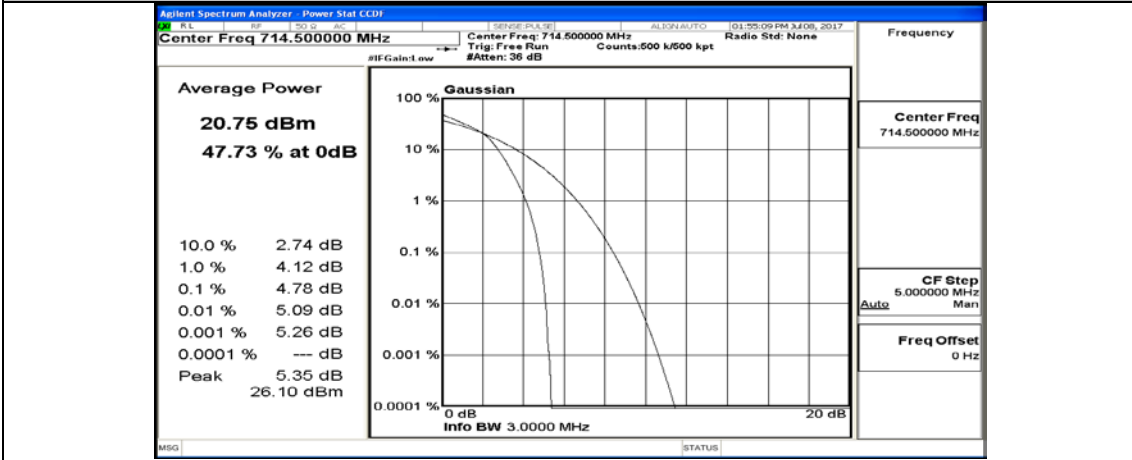
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7



(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0

