## C.2: Peak-to-Average Ratio

## Channel Bandwidth: 5 MHz

| Channel Bandwidth: 5 MHz | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio | Limit | Verdict |
| | | Size | Offset | [dB] | [dB] | |
| QPSK | LCH | 1 | 0 | 3.18 | <13 | PASS |
| | | 1 | 12 | 3.29 | <13 | PASS |
| | | 1 | 24 | 3.28 | <13 | PASS |
| | | 12 | 0 | 4.27 | <13 | PASS |
| | | 12 | 6 | 4.22 | <13 | PASS |
| | | 12 | 13 | 4.46 | <13 | PASS |
| | | 25 | 0 | 4.93 | <13 | PASS |
| | MCH | 1 | 0 | 3.46 | <13 | PASS |
| | | 1 | 12 | 3.6 | <13 | PASS |
| | | 1 | 24 | 3.57 | <13 | PASS |
| | | 12 | 0 | 4.26 | <13 | PASS |
| | | 12 | 6 | 4.14 | <13 | PASS |
| | | 12 | 13 | 4.24 | <13 | PASS |
| | | 25 | 0 | 4.82 | <13 | PASS |
| | HCH | 1 | 0 | 3.67 | <13 | PASS |
| | | 1 | 12 | 3.8 | <13 | PASS |
| | | 1 | 24 | 3.71 | <13 | PASS |
| | | 12 | 0 | 4.53 | <13 | PASS |
| | | 12 | 6 | 4.41 | <13 | PASS |
| | | 12 | 13 | 4.47 | <13 | PASS |
| | | 25 | 0 | 4.99 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 3.94 | <13 | PASS |
| | | 1 | 12 | 4.13 | <13 | PASS |
| | | 1 | 24 | 4.35 | <13 | PASS |
| | | 12 | 0 | 5.21 | <13 | PASS |
| | | 12 | 6 | 5.25 | <13 | PASS |
| | | 12 | 13 | 5.49 | <13 | PASS |
| | | 25 | 0 | 5.69 | <13 | PASS |
| | MCH | 1 | 0 | 4.04 | <13 | PASS |
| | | 1 | 12 | 4.19 | <13 | PASS |
| | | 1 | 24 | 4.18 | <13 | PASS |
| | | 12 | 0 | 5.24 | <13 | PASS |
| | | 12 | 6 | 5.19 | <13 | PASS |
| | | 12 | 13 | 5.42 | <13 | PASS |
| | | 25 | 0 | 5.63 | <13 | PASS |
| | HCH | 1 | 0 | 4.43 | <13 | PASS |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 1 | 12 | 4.49 | <13 | PASS |
| | | 1 | 24 | 4.49 | <13 | PASS |
| | | 12 | 0 | 5.49 | <13 | PASS |
| | | 12 | 6 | 5.48 | <13 | PASS |
| | | 12 | 13 | 5.58 | <13 | PASS |
| | | 25 | 0 | 5.83 | <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 | 3.14 | <13 | PASS |
| | | 1 | 24 | 3.31 | <13 | PASS |
| | | 1 | 49 | 3.36 | <13 | PASS |
| | | 25 | 0 | 4.53 | <13 | PASS |
| | | 25 | 12 | 4.57 | <13 | PASS |
| | | 25 | 25 | 4.7 | <13 | PASS |
| | | 50 | 0 | 4.99 | <13 | PASS |
| | MCH | 1 | 0 | 3.4 | <13 | PASS |
| | | 1 | 24 | 3.57 | <13 | PASS |
| | | 1 | 49 | 3.59 | <13 | PASS |
| | | 25 | 0 | 4.29 | <13 | PASS |
| | | 25 | 12 | 4.26 | <13 | PASS |
| | | 25 | 25 | 4.46 | <13 | PASS |
| | | 50 | 0 | 4.97 | <13 | PASS |
| | HCH | 1 | 0 | 3.65 | <13 | PASS |
| | | 1 | 24 | 3.78 | <13 | PASS |
| | | 1 | 49 | 3.73 | <13 | PASS |
| | | 25 | 0 | 4.61 | <13 | PASS |
| | | 25 | 12 | 4.54 | <13 | PASS |
| | | 25 | 25 | 4.55 | <13 | PASS |
| | | 50 | 0 | 5.07 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 3.84 | <13 | PASS |
| | | 1 | 24 | 3.94 | <13 | PASS |
| | | 1 | 49 | 4.01 | <13 | PASS |
| | | 25 | 0 | 5.54 | <13 | PASS |
| | | 25 | 12 | 5.54 | <13 | PASS |
| | | 25 | 25 | 5.64 | <13 | PASS |
| | | 50 | 0 | 5.87 | <13 | PASS |
| | MCH | 1 | 0 | 4.17 | <13 | PASS |
| | | 1 | 24 | 4.38 | <13 | PASS |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 1 | 49 | 4.36 | <13 | PASS |
| | | 25 | 0 | 5.35 | <13 | PASS |
| | | 25 | 12 | 5.4 | <13 | PASS |
| | | 25 | 25 | 5.55 | <13 | PASS |
| | | 50 | 0 | 5.87 | <13 | PASS |
| | HCH | 1 | 0 | 4.37 | <13 | PASS |
| | | 1 | 24 | 4.52 | <13 | PASS |
| | | 1 | 49 | 4.44 | <13 | PASS |
| | | 25 | 0 | 5.64 | <13 | PASS |
| | | 25 | 12 | 5.6 | <13 | PASS |
| | | 25 | 25 | 5.64 | <13 | PASS |
| | | 50 | 0 | 5.99 | <13 | PASS |

## Channel Bandwidth: 15 MHz

| Channel Bandwidth: 15 MHz | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio | Limit | Verdict |
| | | Size | Offset | [dB] | [dB] | |
| QPSK | LCH | 1 | 0 | 4.56 | <13 | PASS |
| | | 1 | 37 | 3.35 | <13 | PASS |
| | | 1 | 74 | 4.56 | <13 | PASS |
| | | 37 | 0 | 4.62 | <13 | PASS |
| | | 37 | 18 | 4.82 | <13 | PASS |
| | | 37 | 38 | 4.68 | <13 | PASS |
| | | 75 | 0 | 4.98 | <13 | PASS |
| | MCH | 1 | 0 | 4.54 | <13 | PASS |
| | | 1 | 37 | 3.62 | <13 | PASS |
| | | 1 | 74 | 4.63 | <13 | PASS |
| | | 37 | 0 | 4.51 | <13 | PASS |
| | | 37 | 18 | 4.61 | <13 | PASS |
| | | 37 | 38 | 4.62 | <13 | PASS |
| | | 75 | 0 | 4.95 | <13 | PASS |
| | HCH | 1 | 0 | 4.78 | <13 | PASS |
| | | 1 | 37 | 3.8 | <13 | PASS |
| | | 1 | 74 | 4.79 | <13 | PASS |
| | | 37 | 0 | 4.62 | <13 | PASS |
| | | 37 | 18 | 4.85 | <13 | PASS |
| | | 37 | 38 | 4.7 | <13 | PASS |
| | | 75 | 0 | 4.95 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 5.13 | <13 | PASS |
| | | 1 | 37 | 4.09 | <13 | PASS |
| | | 1 | 74 | 5.19 | <13 | PASS |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 37 | 0 | 5.8 | <13 | PASS |
| | | 37 | 18 | 5.77 | <13 | PASS |
| | | 37 | 38 | 5.9 | <13 | PASS |
| | | 75 | 0 | 6.13 | <13 | PASS |
| | MCH | 1 | 0 | 5.31 | <13 | PASS |
| | | 1 | 37 | 4.39 | <13 | PASS |
| | | 1 | 74 | 5.45 | <13 | PASS |
| | | 37 | 0 | 5.78 | <13 | PASS |
| | | 37 | 18 | 5.6 | <13 | PASS |
| | | 37 | 38 | 5.85 | <13 | PASS |
| | | 75 | 0 | 6.14 | <13 | PASS |
| | HCH | 1 | 0 | 5.45 | <13 | PASS |
| | | 1 | 37 | 4.54 | <13 | PASS |
| | | 1 | 74 | 5.42 | <13 | PASS |
| | | 37 | 0 | 5.88 | <13 | PASS |
| | | 37 | 18 | 5.77 | <13 | PASS |
| | | 37 | 38 | 5.93 | <13 | PASS |
| | | 75 | 0 | 6.22 | <13 | PASS |

## Channel Bandwidth: 20 MHz

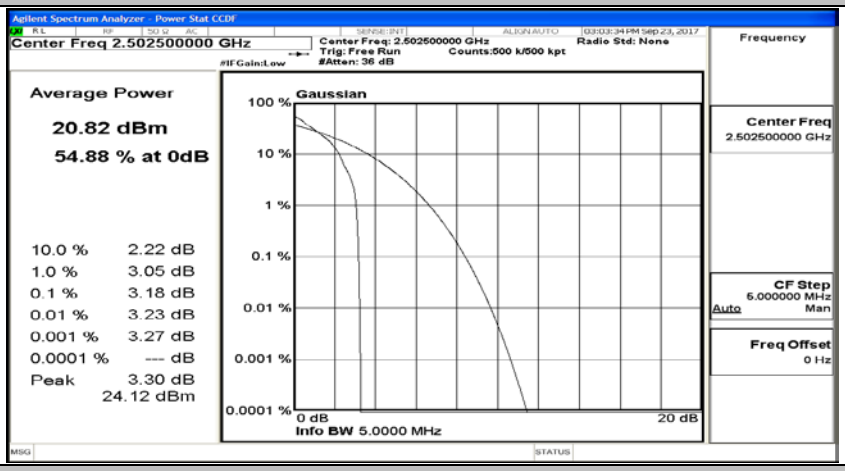
| Channel Bandwidth: 20 MHz | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 7.54 | <13 | PASS |
| | | 1 | 49 | 3.41 | <13 | PASS |
| | | 1 | 99 | 8.04 | <13 | PASS |
| | | 50 | 0 | 5.48 | <13 | PASS |
| | | 50 | 25 | 5.02 | <13 | PASS |
| | | 50 | 50 | 5.64 | <13 | PASS |
| | | 100 | 0 | 5.71 | <13 | PASS |
| | MCH | 1 | 0 | 8.11 | <13 | PASS |
| | | 1 | 49 | 3.67 | <13 | PASS |
| | | 1 | 99 | 8.6 | <13 | PASS |
| | | 50 | 0 | 5.49 | <13 | PASS |
| | | 50 | 25 | 4.91 | <13 | PASS |
| | | 50 | 50 | 5.68 | <13 | PASS |
| | | 100 | 0 | 5.72 | <13 | PASS |
| | HCH | 1 | 0 | 8.61 | <13 | PASS |
| | | 1 | 49 | 3.83 | <13 | PASS |
| | | 1 | 99 | 9.06 | <13 | PASS |
| | | 50 | 0 | 5.53 | <13 | PASS |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 50 | 25 | 5.02 | <13 | PASS |
| | | 50 | 50 | 5.69 | <13 | PASS |
| | | 100 | 0 | 5.72 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 7.76 | <13 | PASS |
| | | 1 | 49 | 4.02 | <13 | PASS |
| | | 1 | 99 | 8.06 | <13 | PASS |
| | | 50 | 0 | 6.53 | <13 | PASS |
| | | 50 | 25 | 5.9 | <13 | PASS |
| | | 50 | 50 | 6.56 | <13 | PASS |
| | | 100 | 0 | 6.75 | <13 | PASS |
| | MCH | 1 | 0 | 8.22 | <13 | PASS |
| | | 1 | 49 | 4.28 | <13 | PASS |
| | | 1 | 99 | 8.29 | <13 | PASS |
| | | 50 | 0 | 6.49 | <13 | PASS |
| | | 50 | 25 | 5.82 | <13 | PASS |
| | | 50 | 50 | 6.61 | <13 | PASS |
| | | 100 | 0 | 6.66 | <13 | PASS |
| | HCH | 1 | 0 | 8.71 | <13 | PASS |
| | | 1 | 49 | 4.52 | <13 | PASS |
| | | 1 | 99 | 9.43 | <13 | PASS |
| | | 50 | 0 | 6.54 | <13 | PASS |
| | | 50 | 25 | 5.98 | <13 | PASS |
| | | 50 | 50 | 6.65 | <13 | PASS |
| | | 100 | 0 | 6.76 | <13 | PASS |

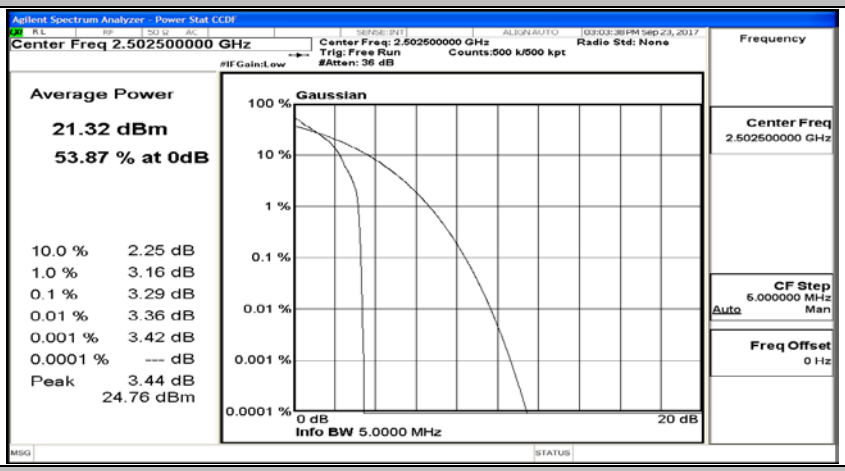
## Test Graphs

## Channel Bandwidth: 5 MHz

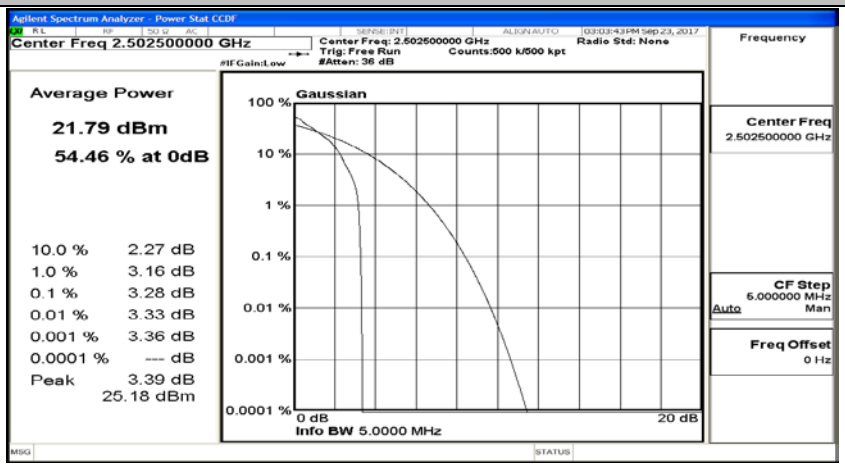
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



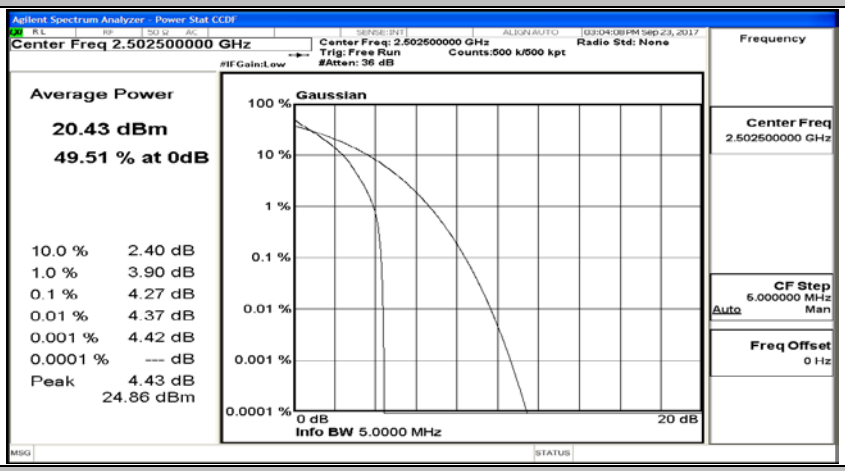

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



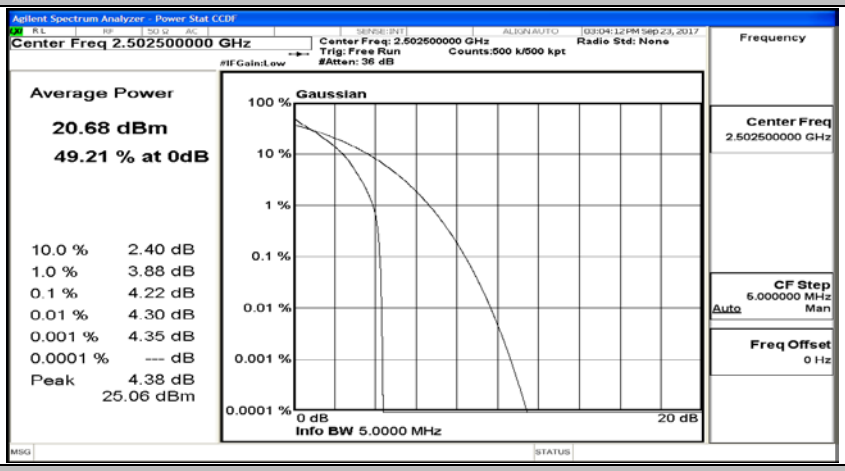

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



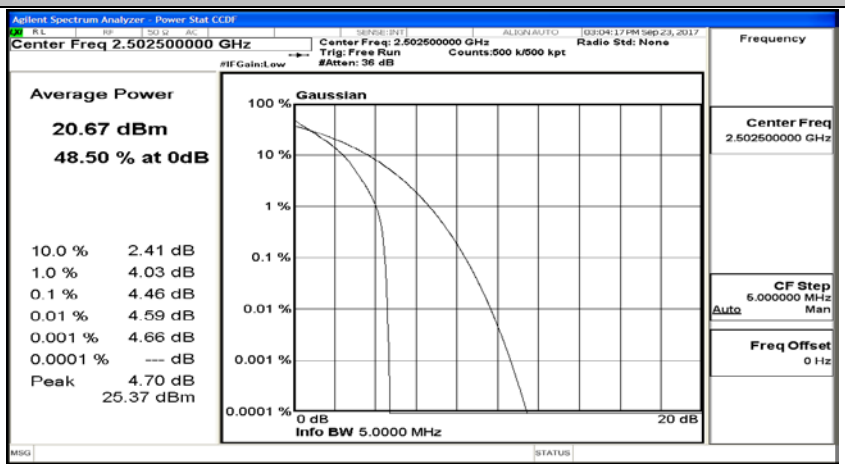
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



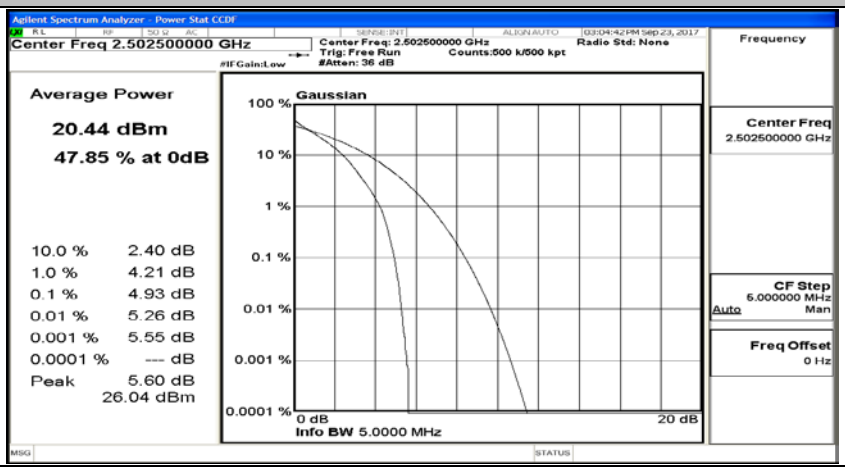

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



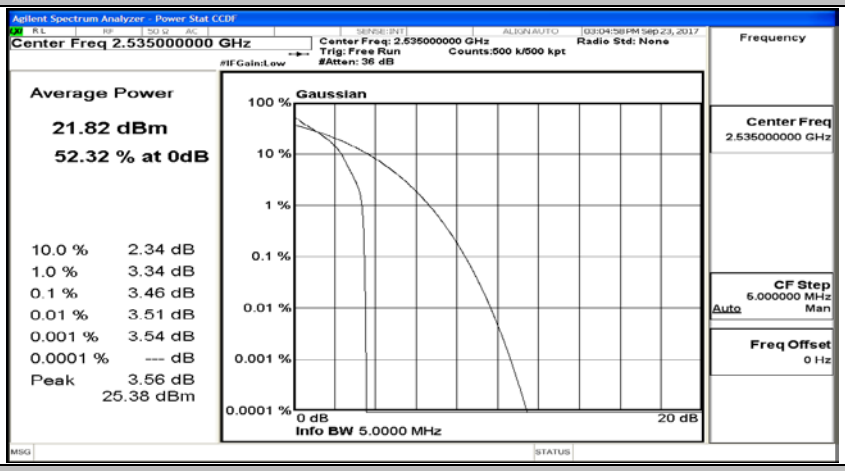

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



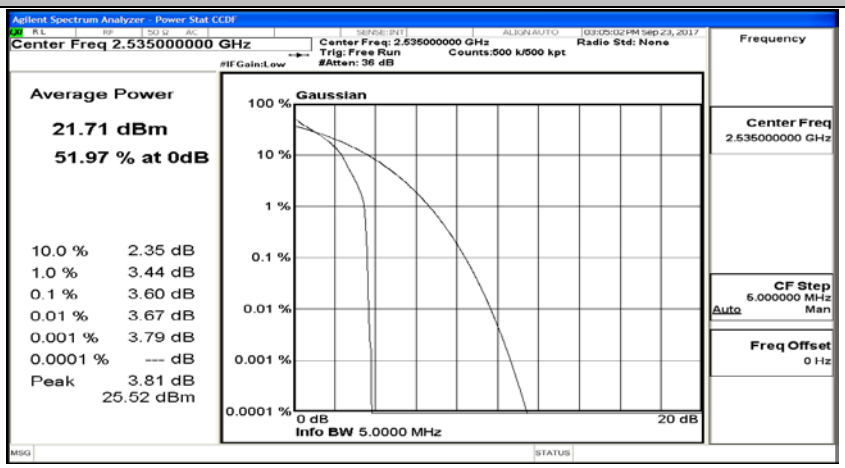
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



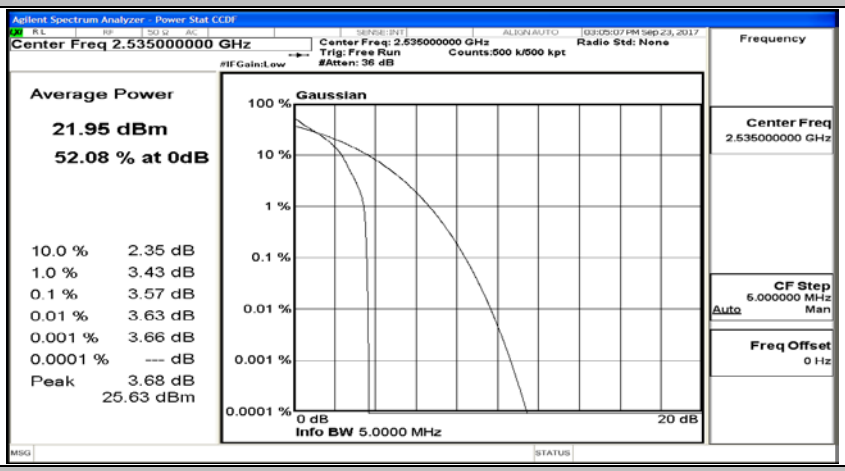

(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



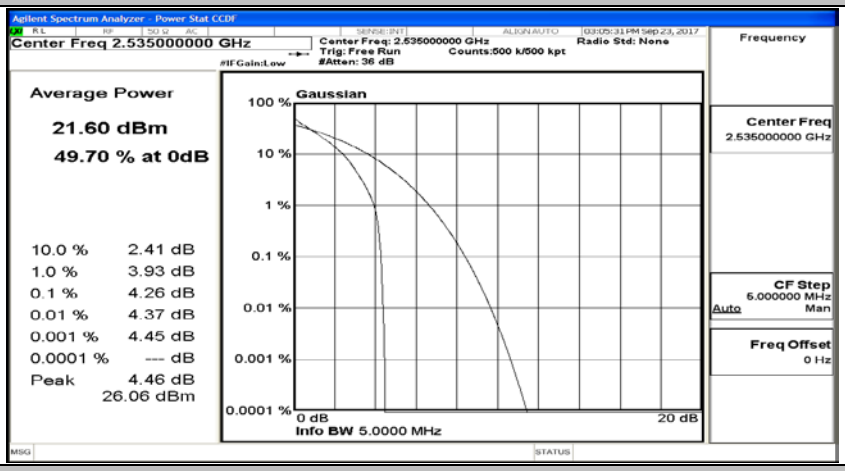

(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



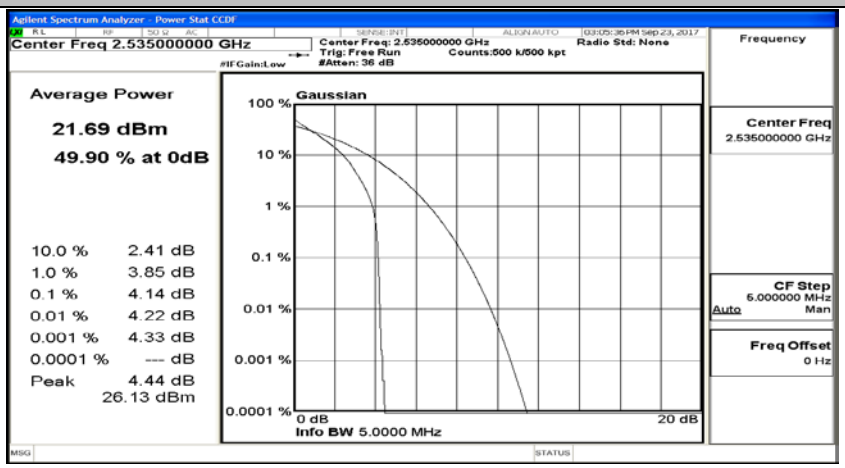
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24



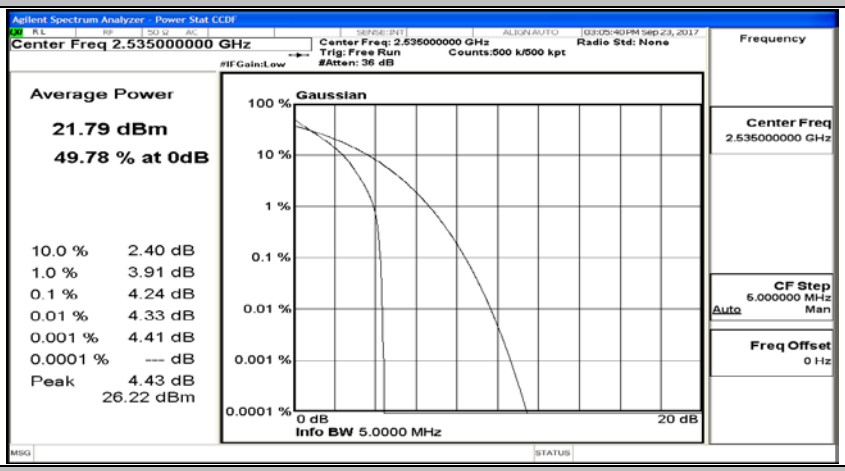

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0



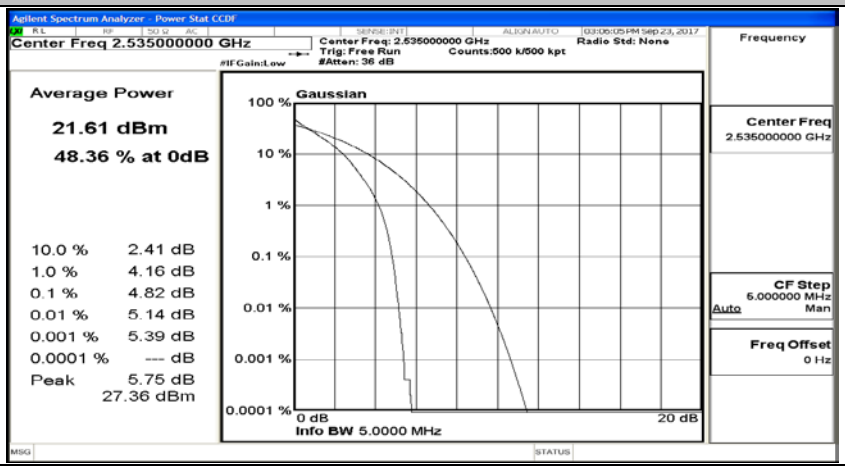

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6



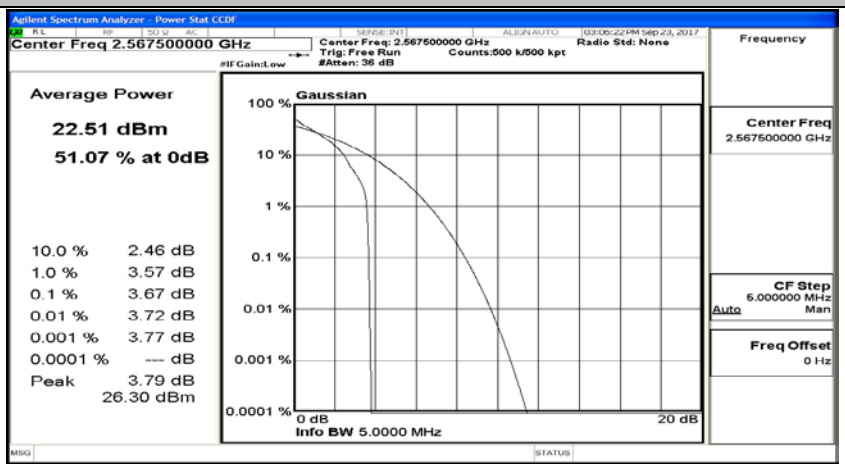
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13



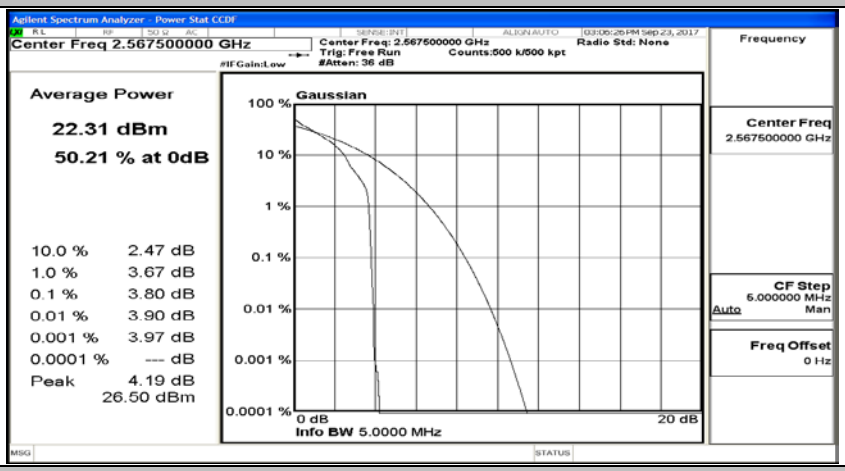

(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



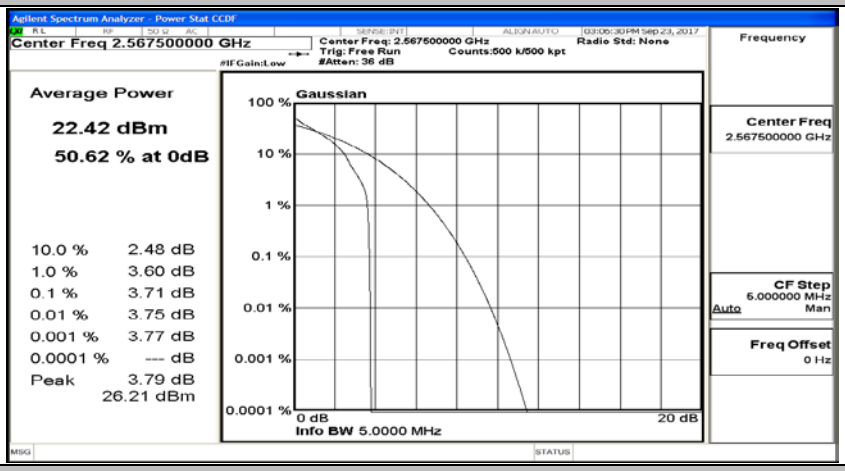

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



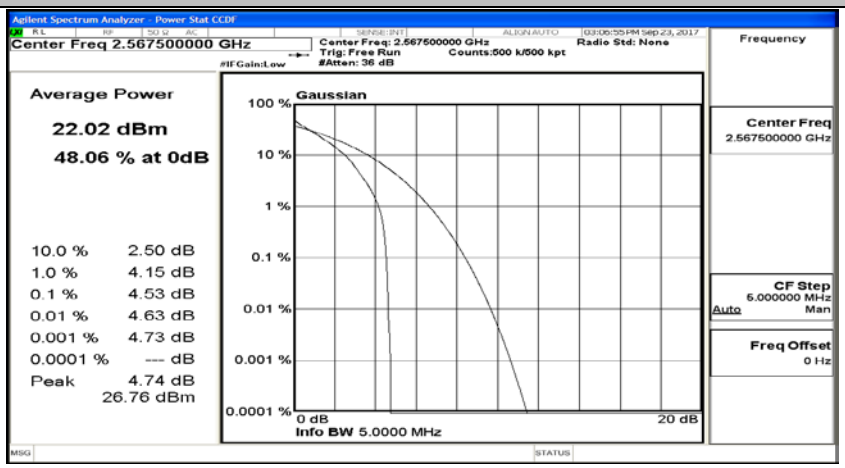
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



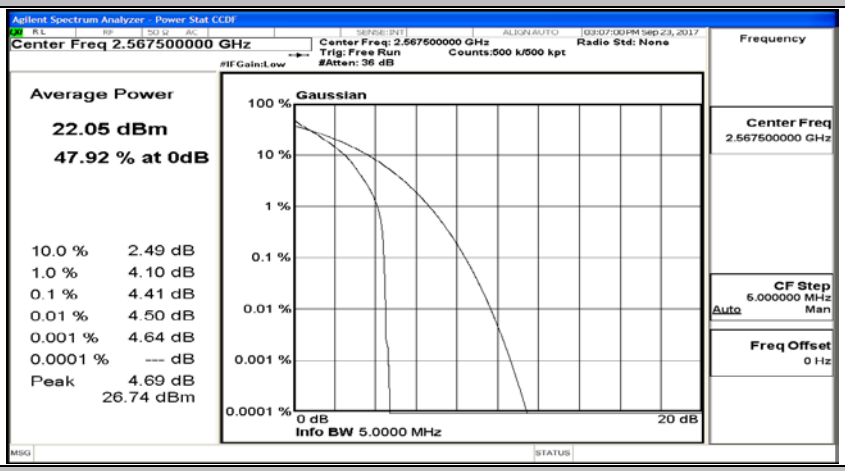

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



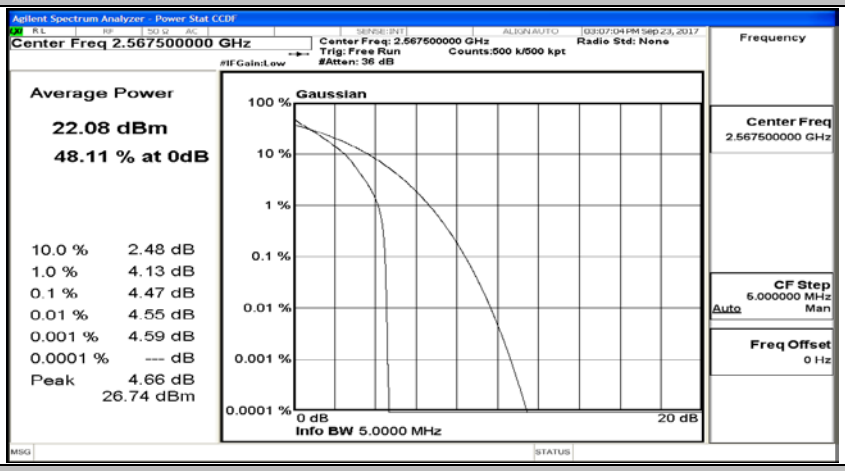

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



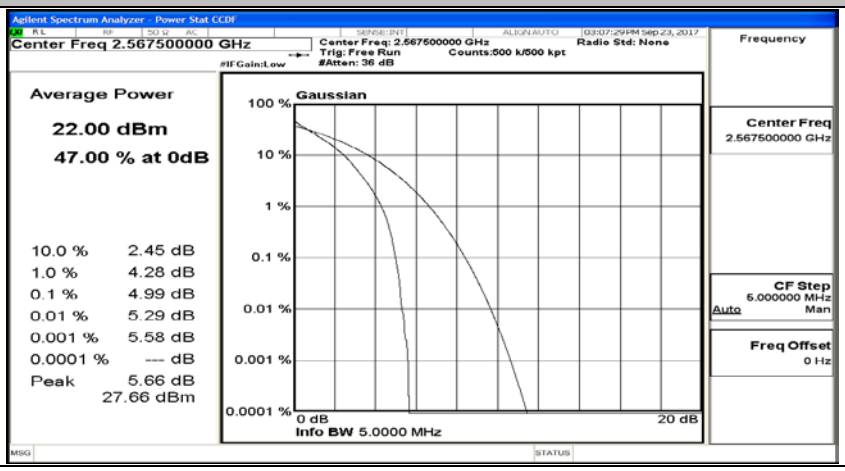
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



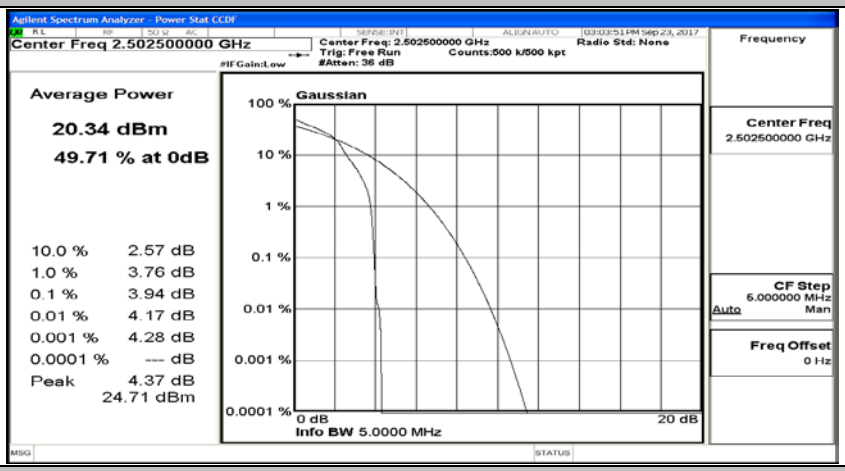

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



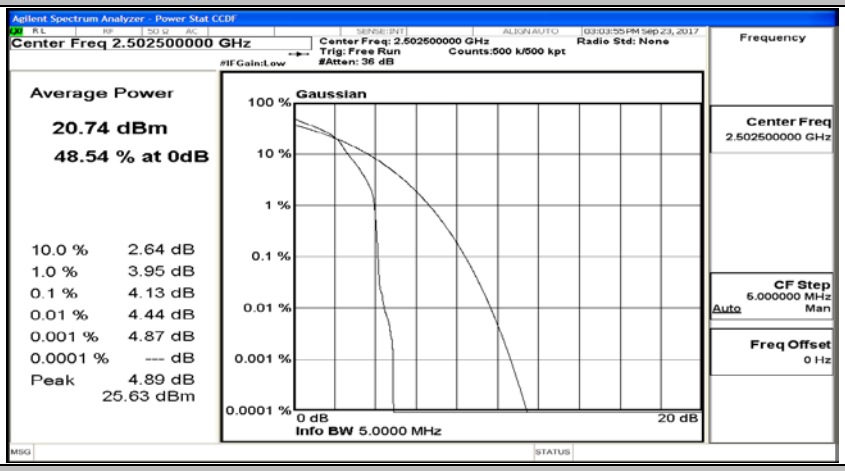

(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



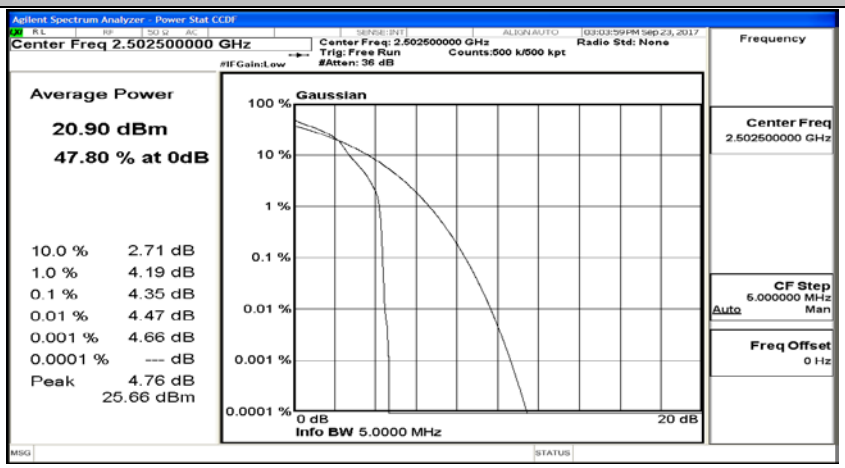
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



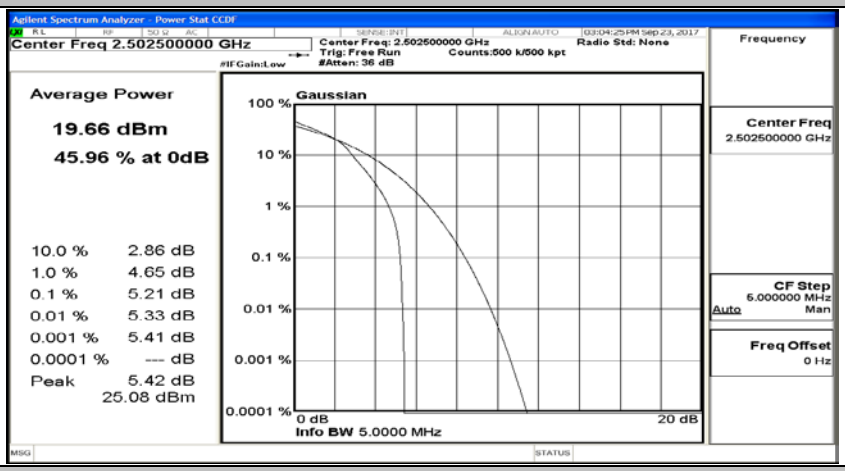

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



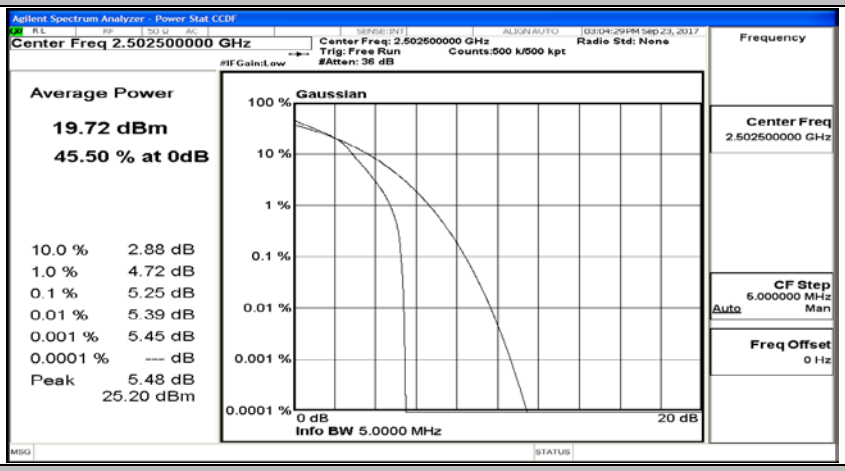

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



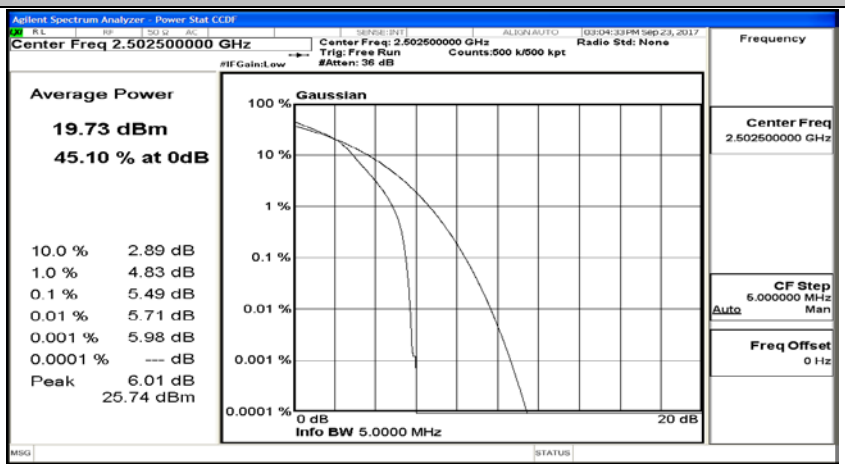
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0



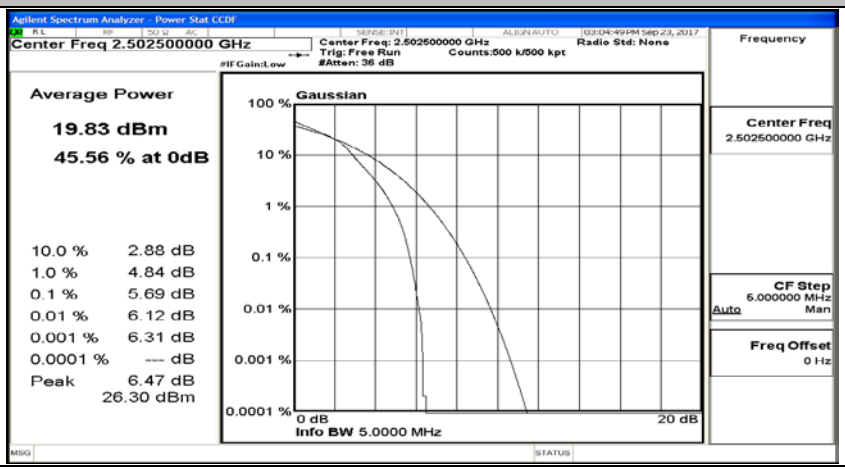

(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6



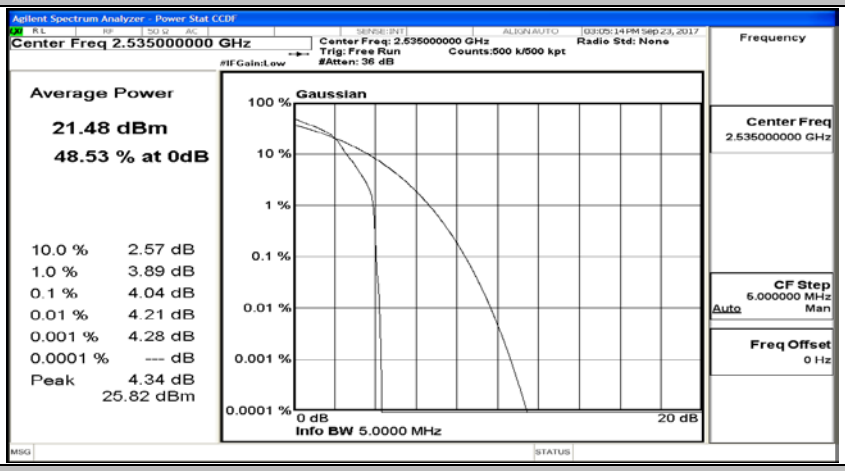

(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



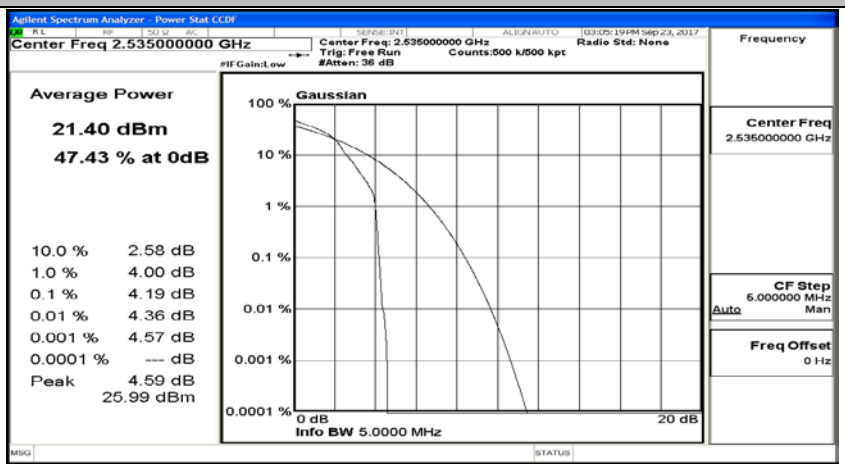
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



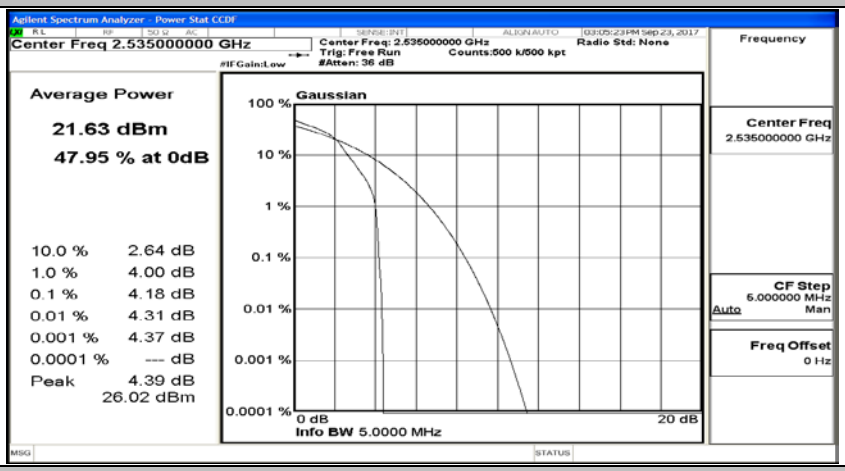

(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



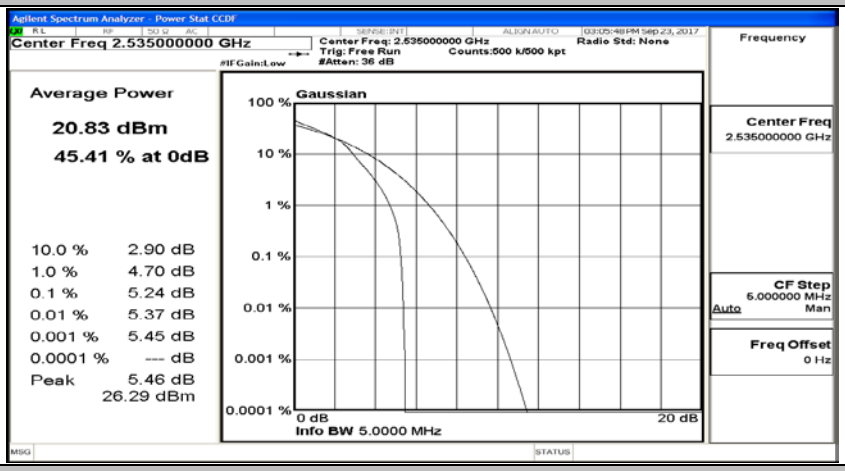

(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24




(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0

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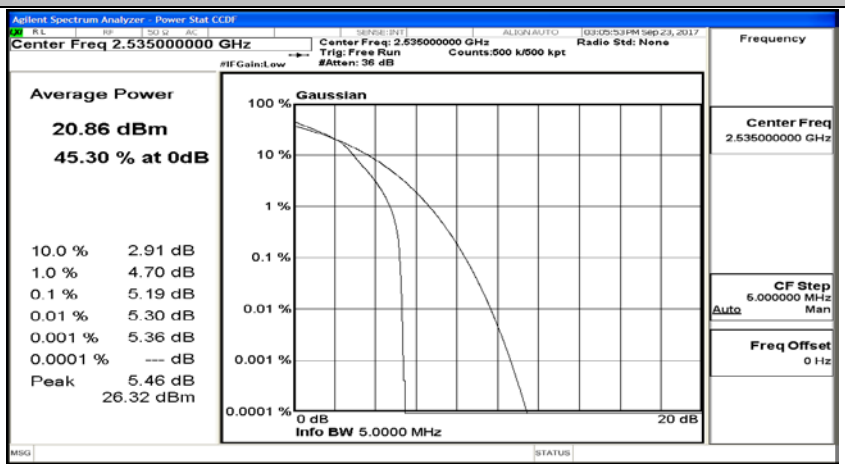
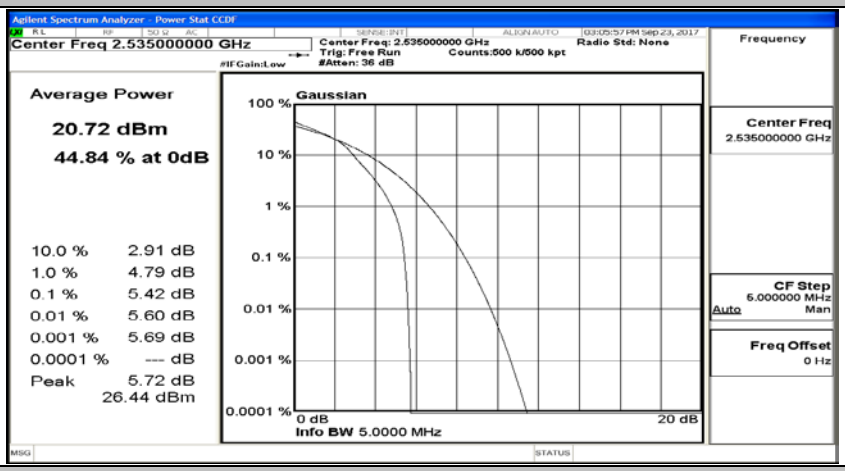
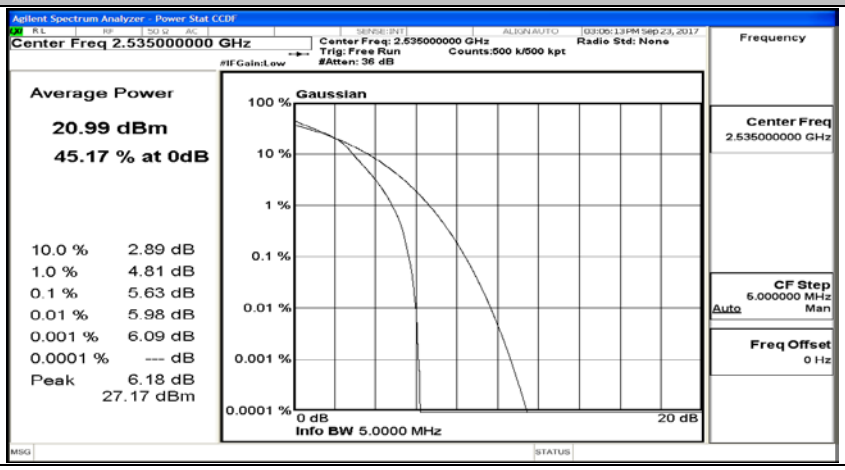


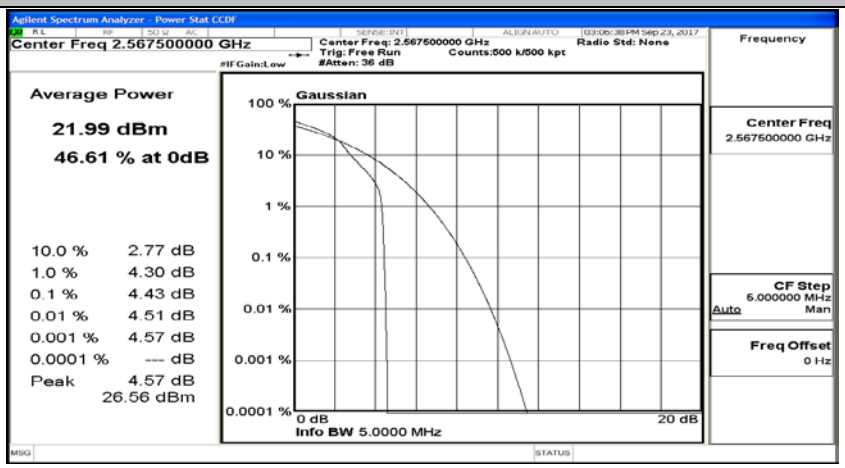
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13



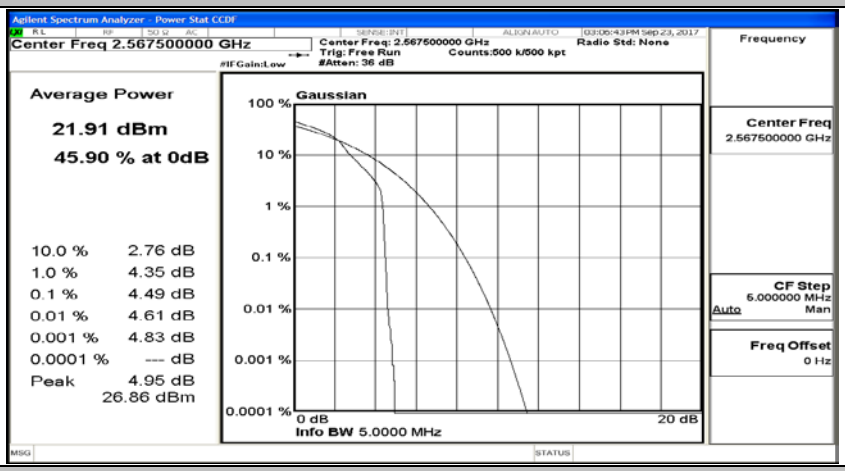

(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0



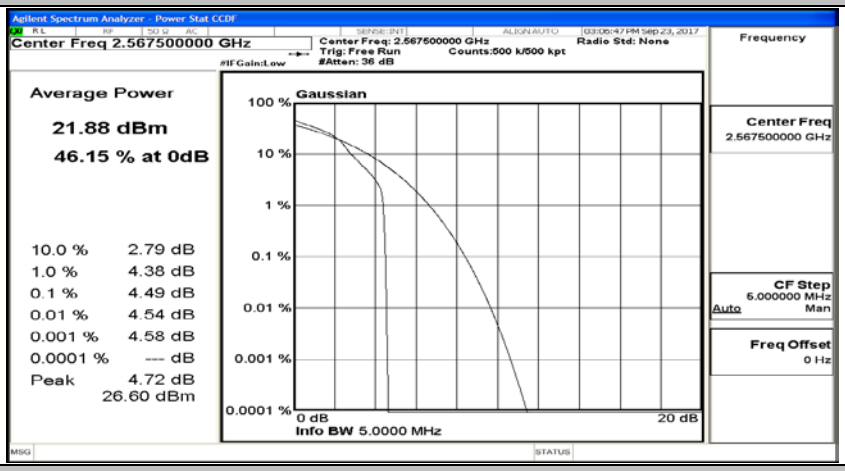

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



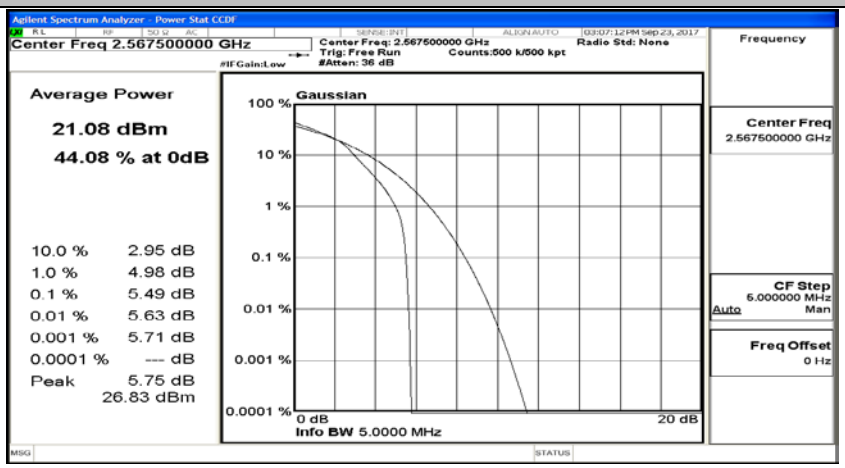
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



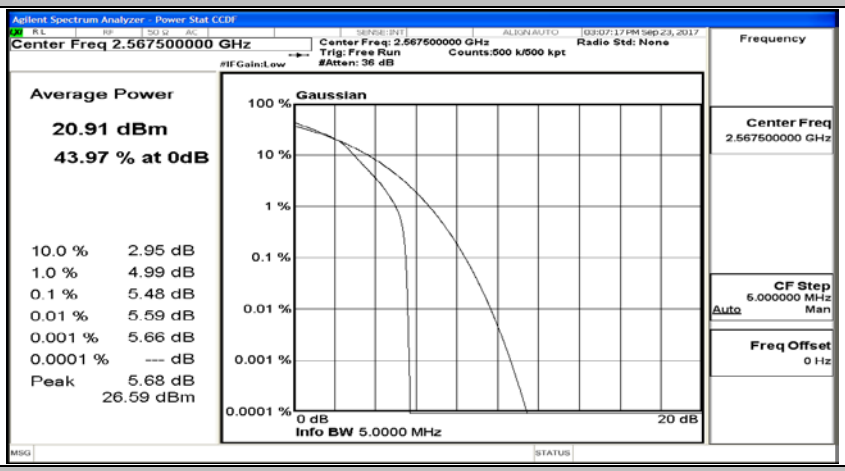

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



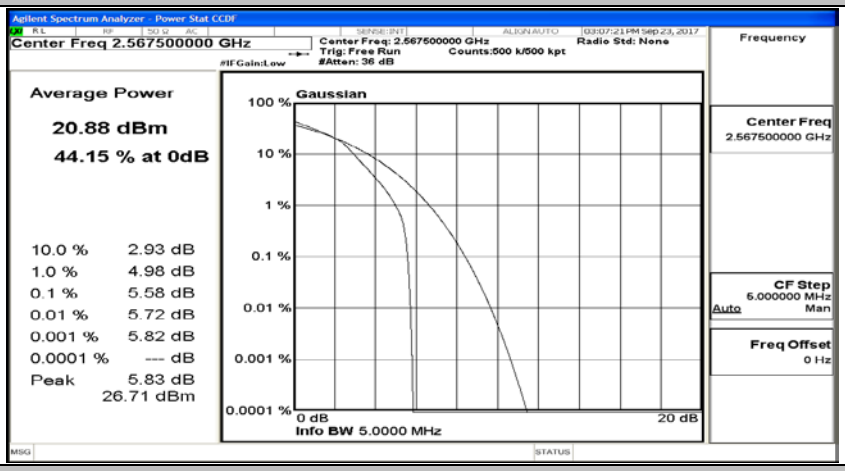

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0



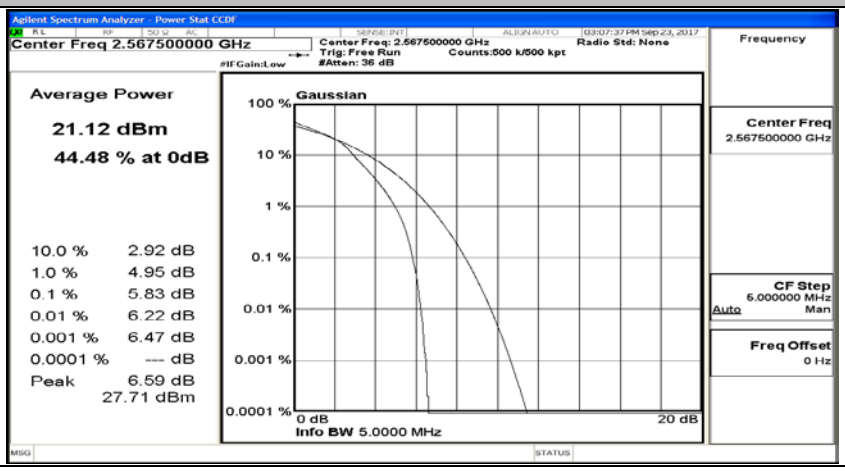
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6




(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

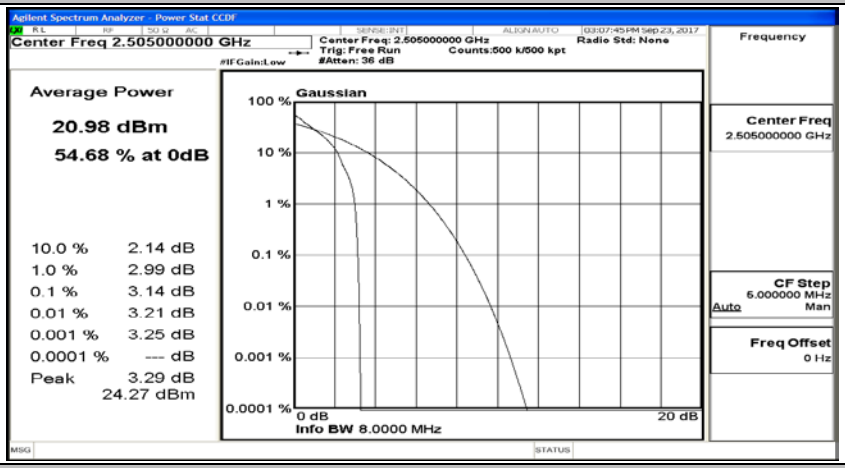



(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

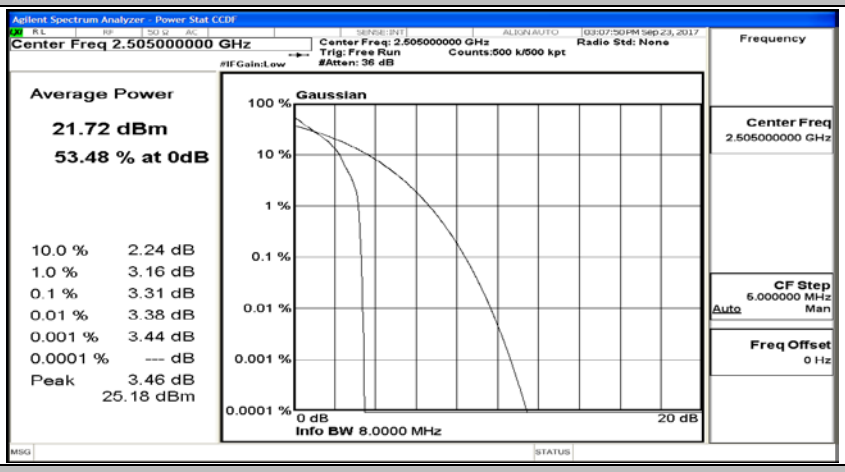


## Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0




Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24

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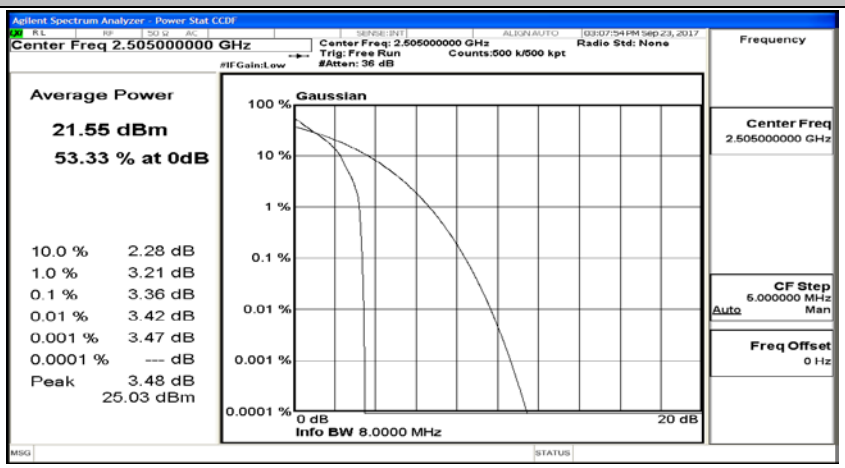
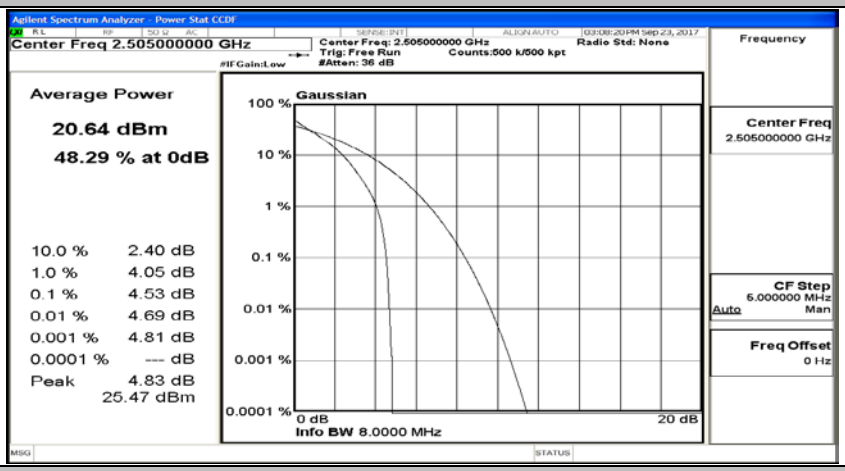
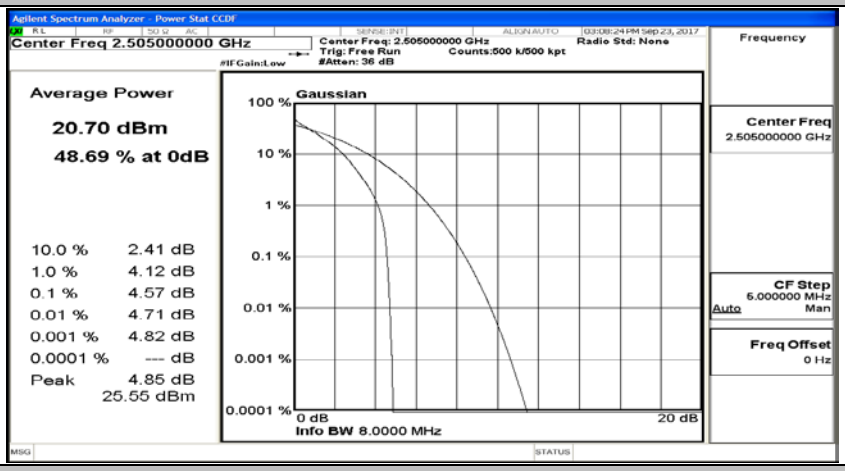


Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0




Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12

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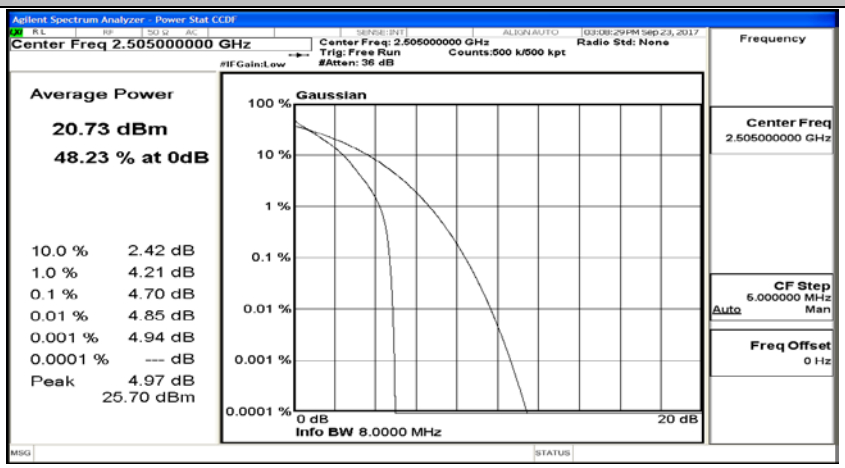
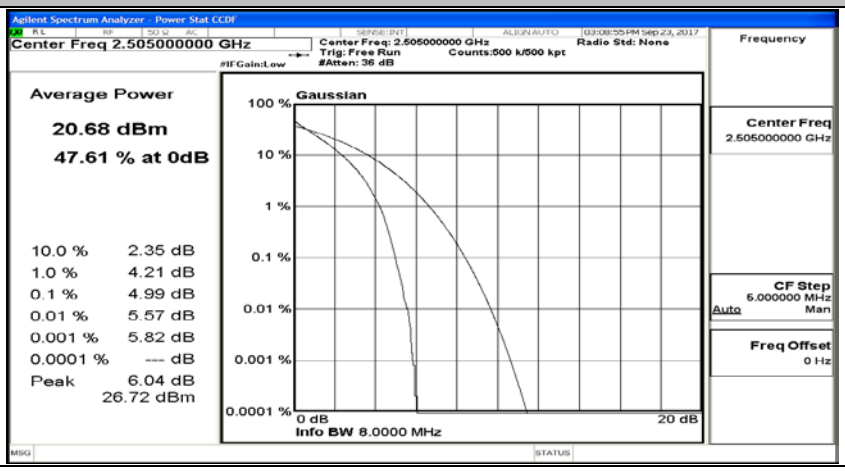
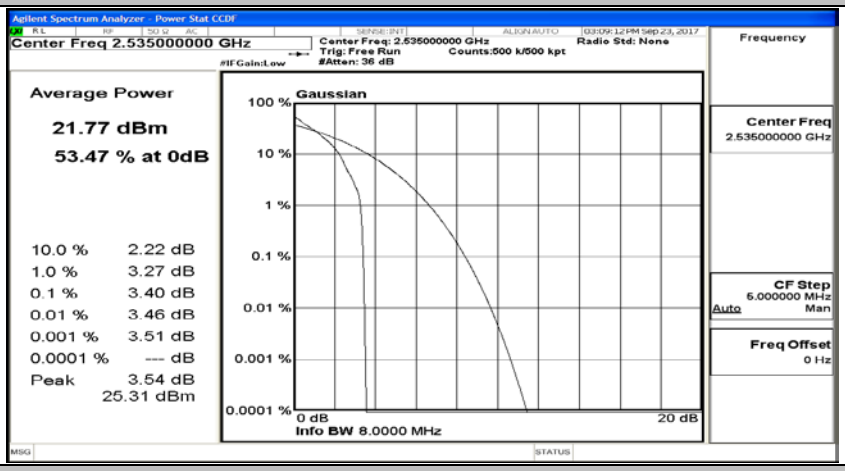


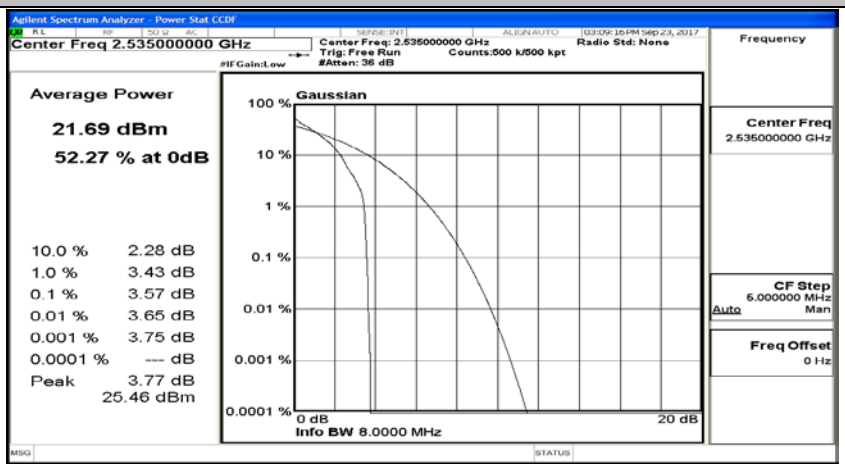
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0



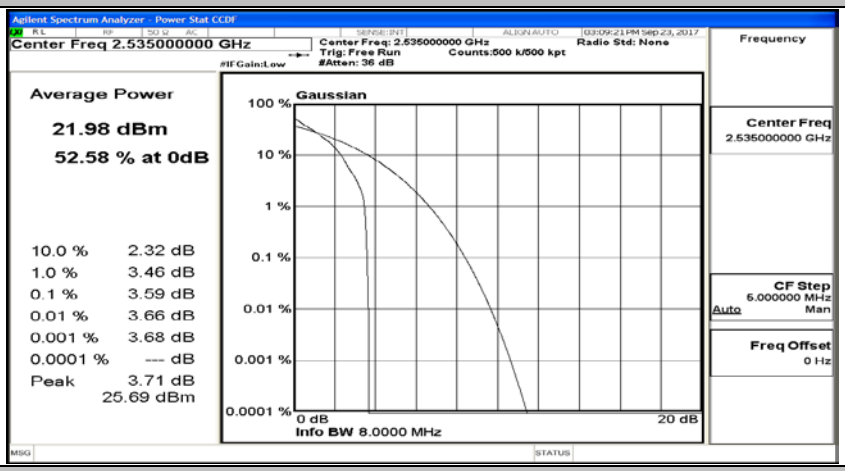

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0




Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24



Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

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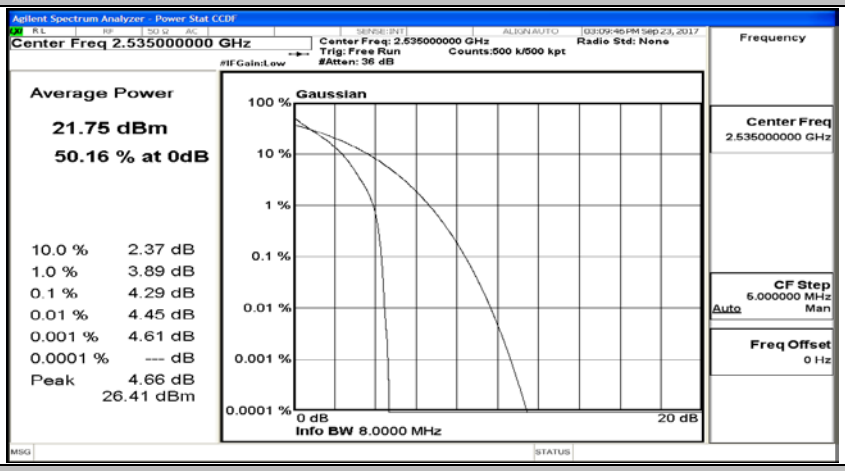


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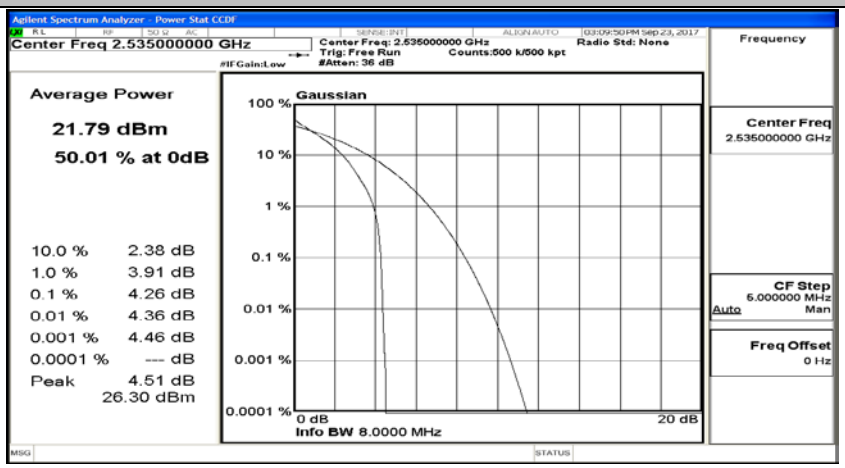

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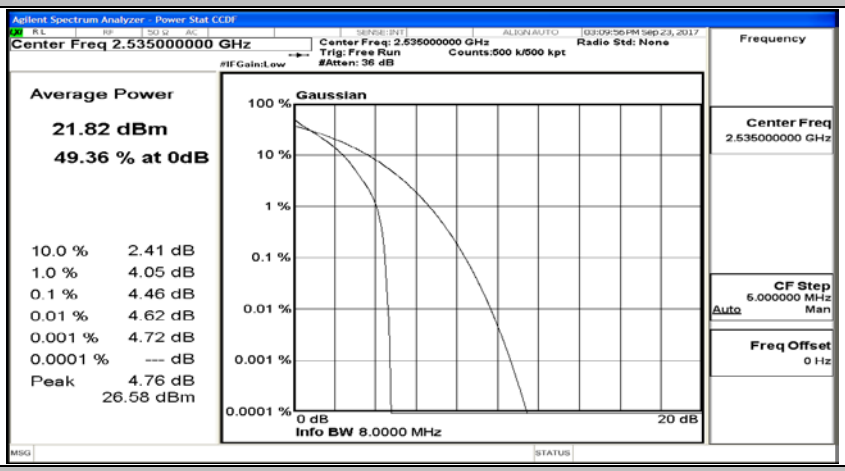
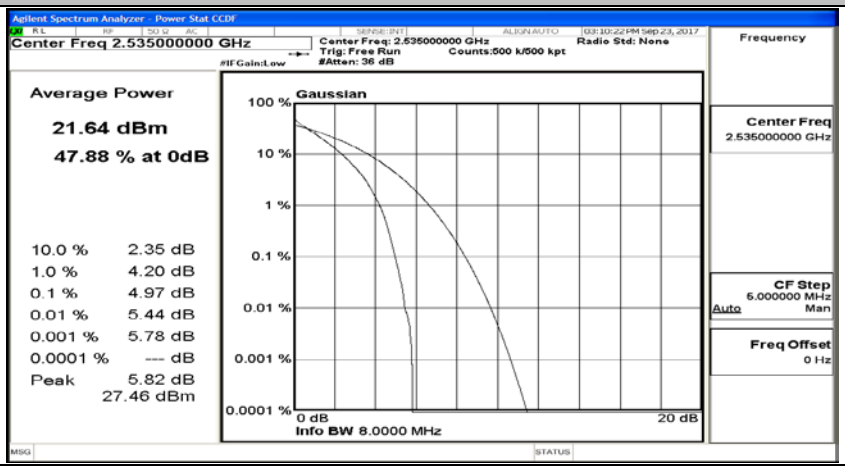
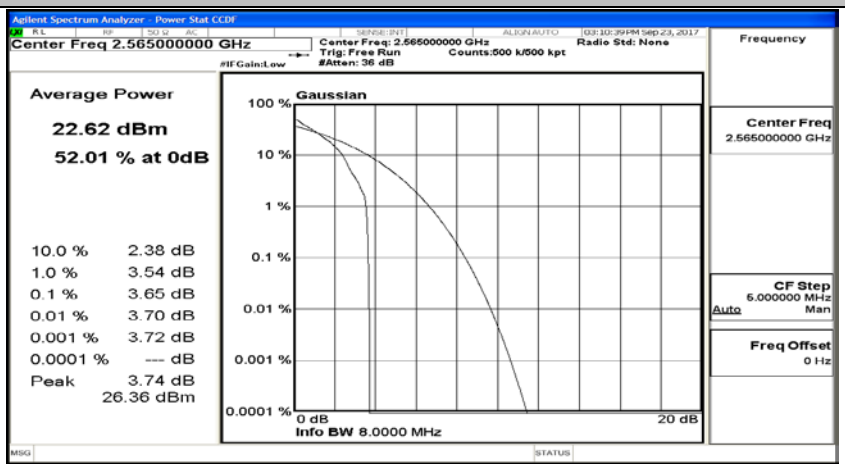


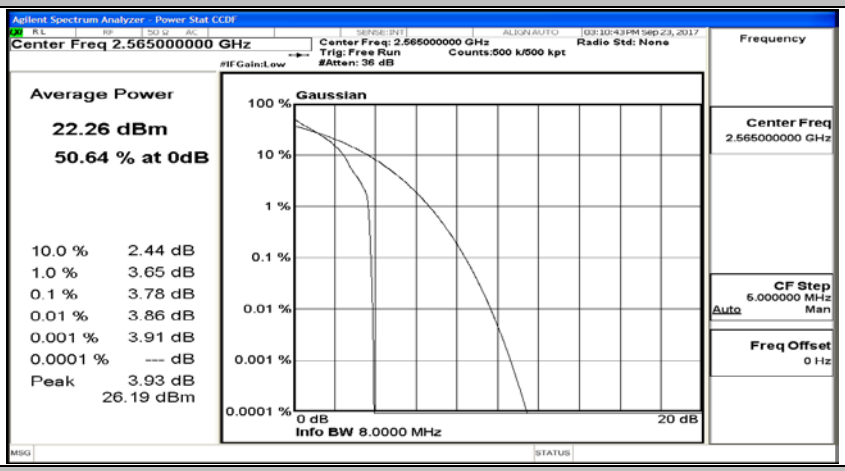

Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0



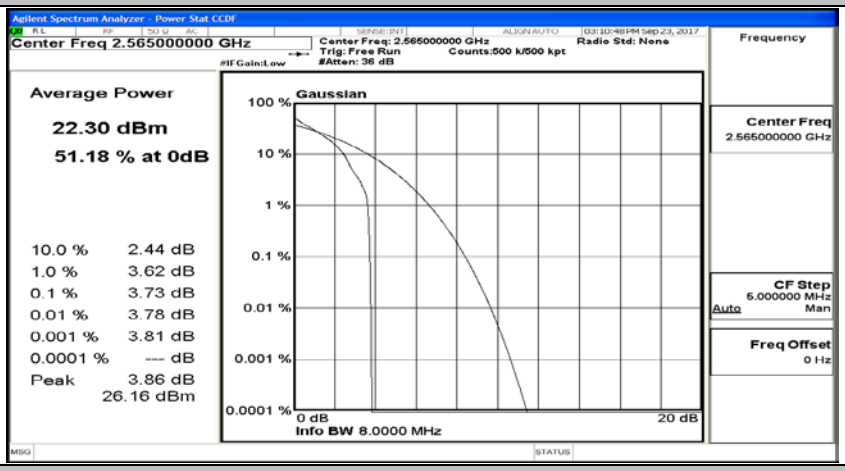

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24




Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49

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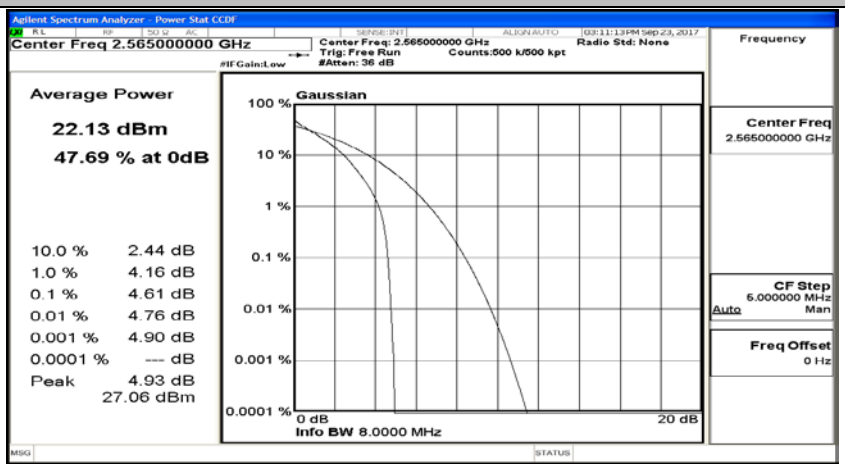

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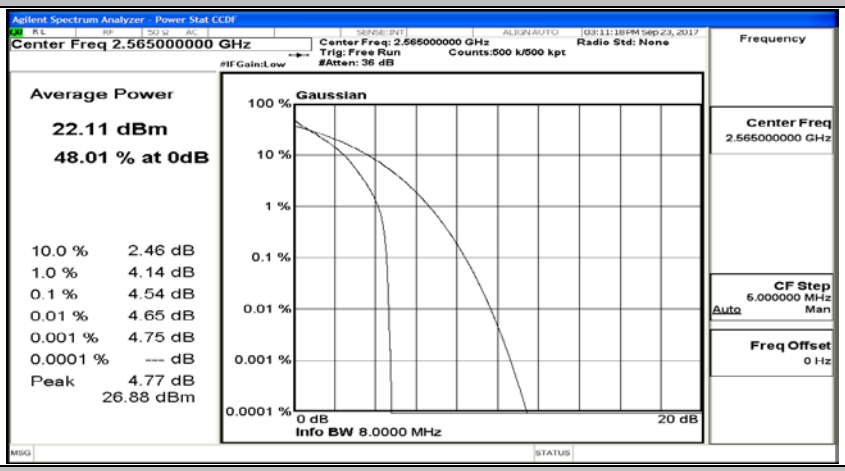


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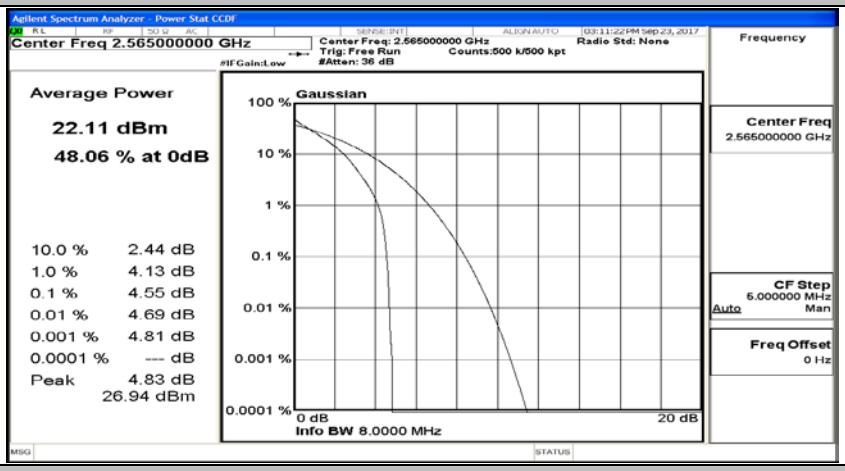
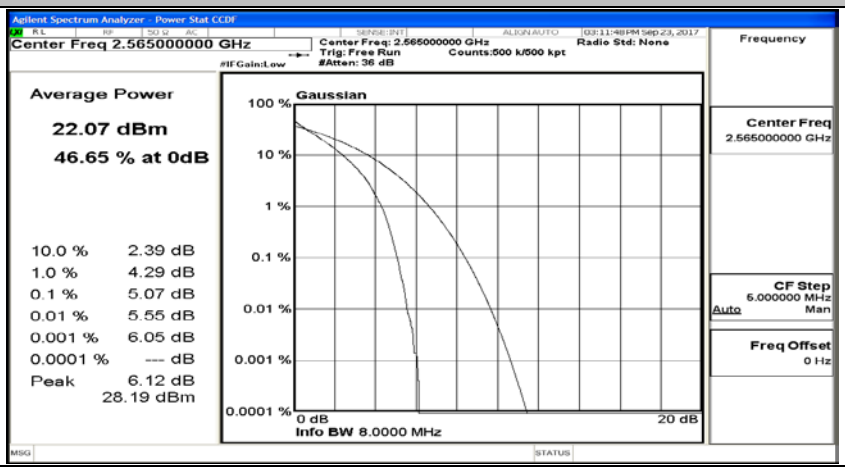
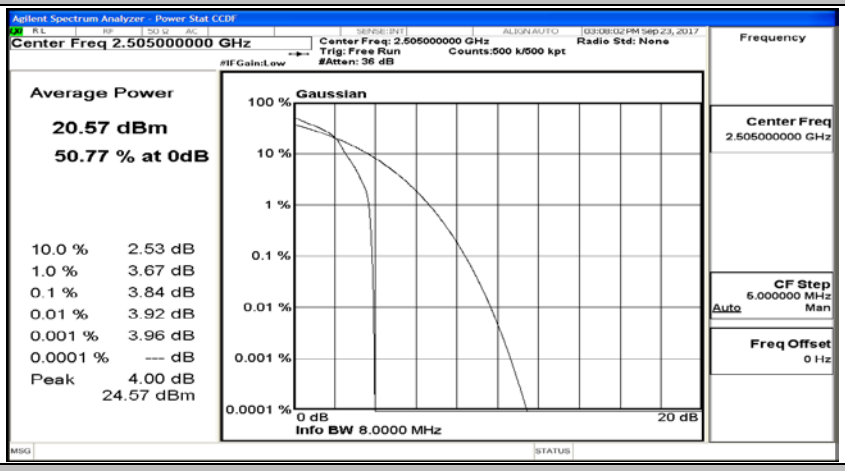



Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

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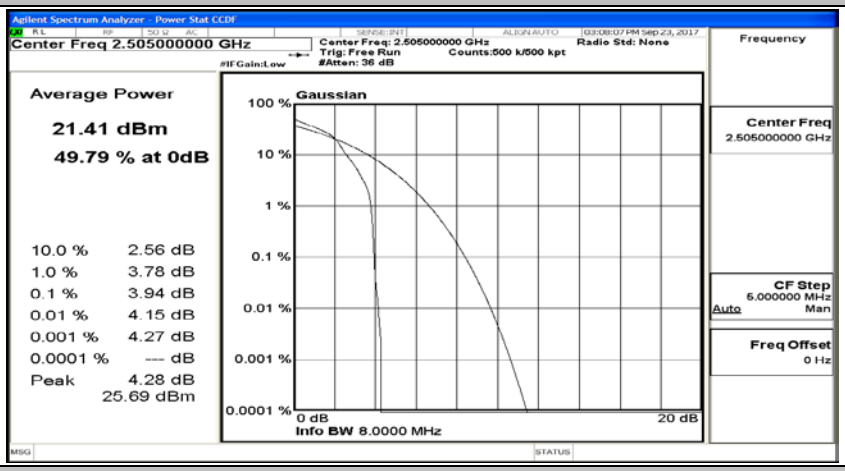
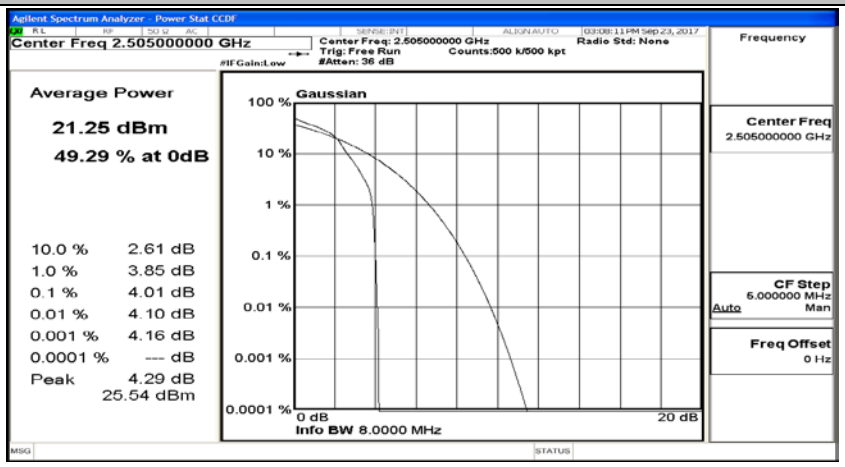



Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49



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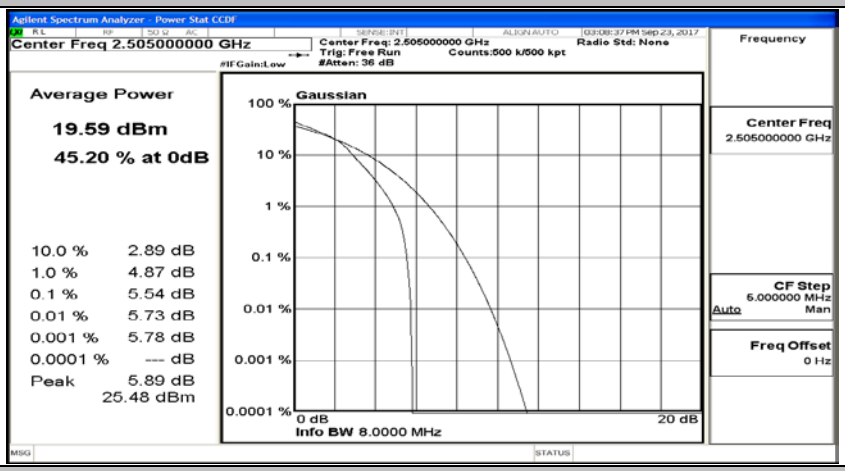
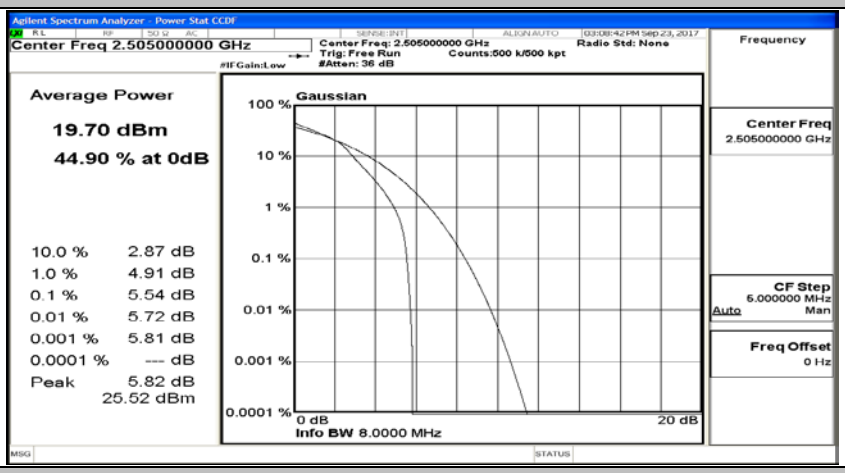



Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12

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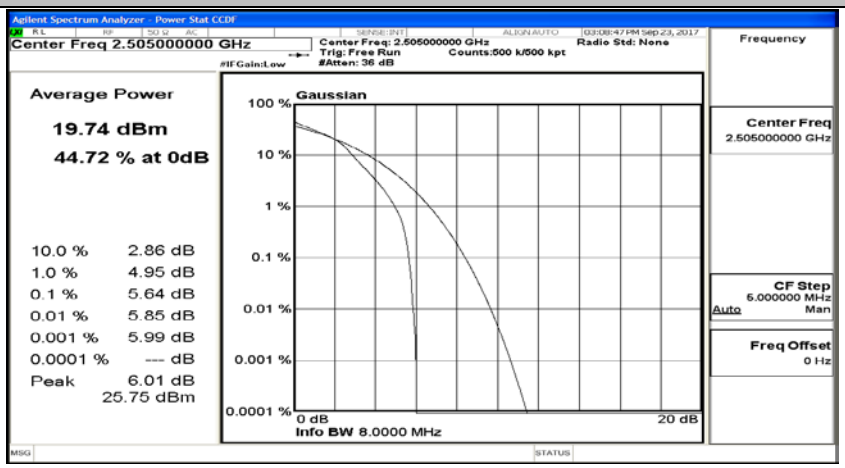
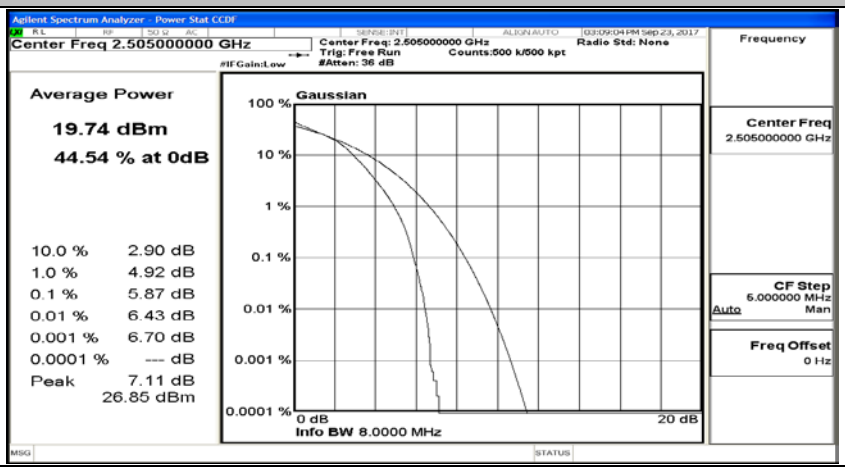
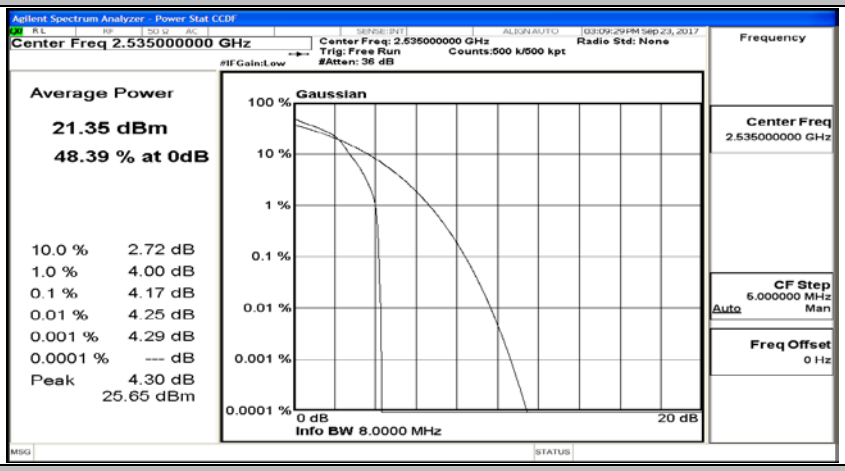


Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0




Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

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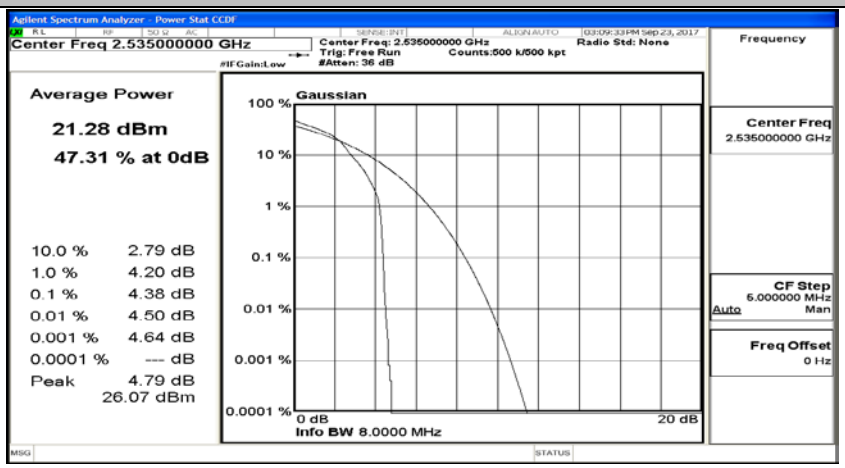
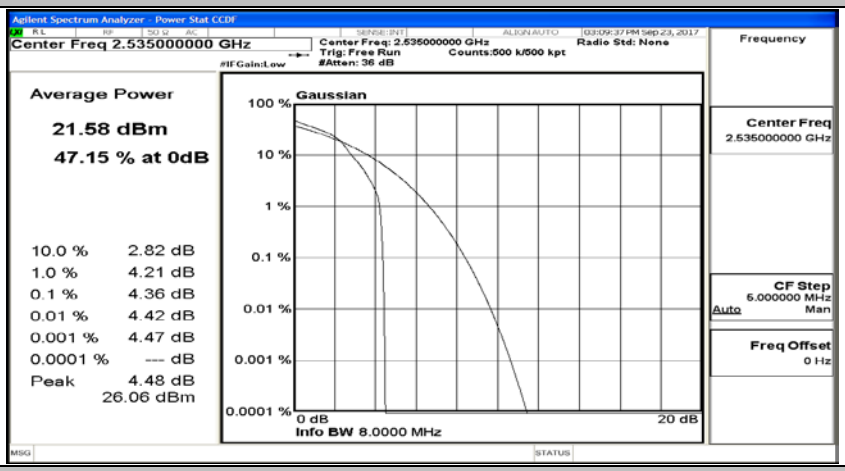
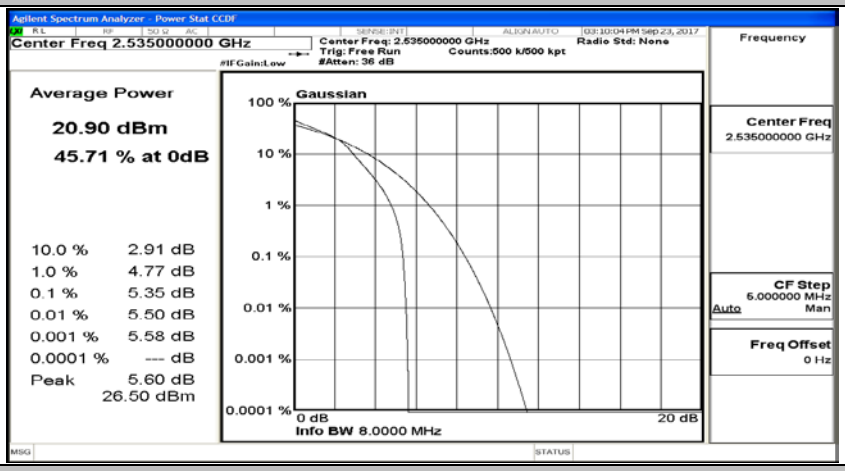


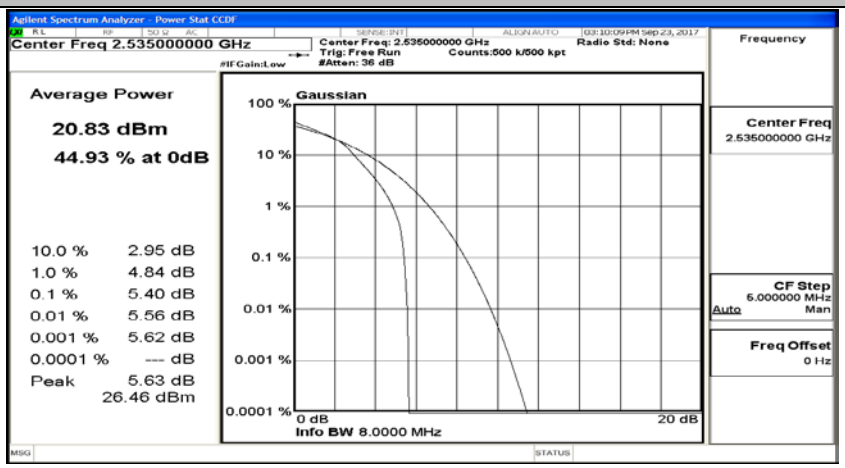
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49



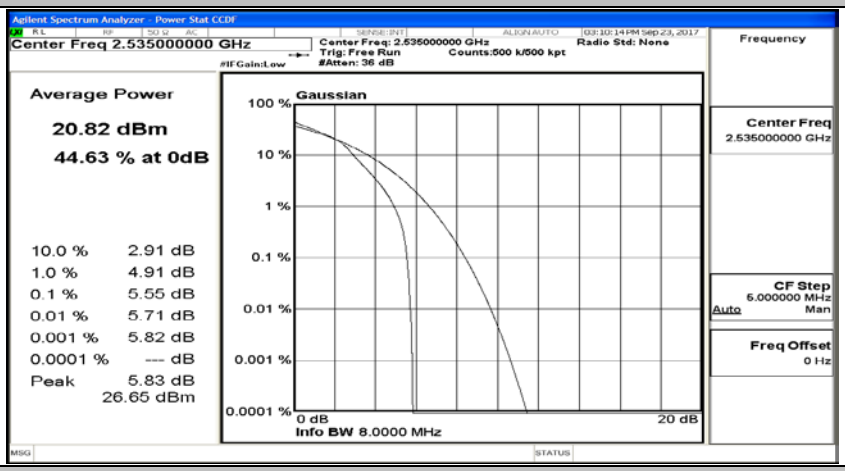

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#0



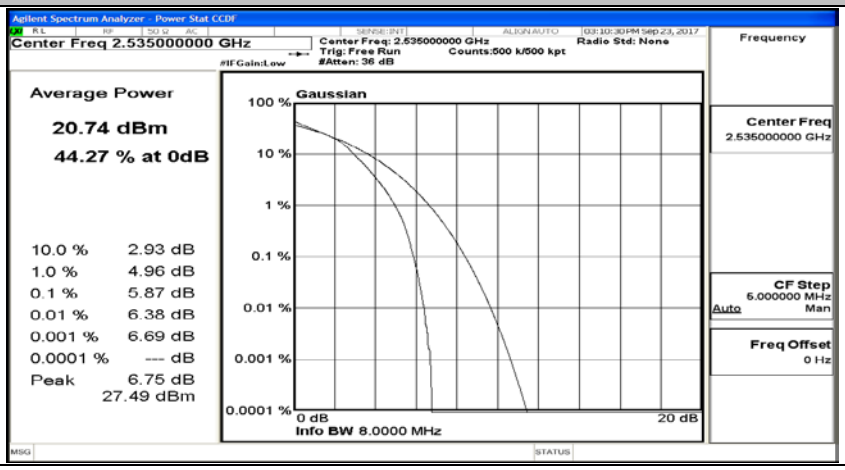

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#12



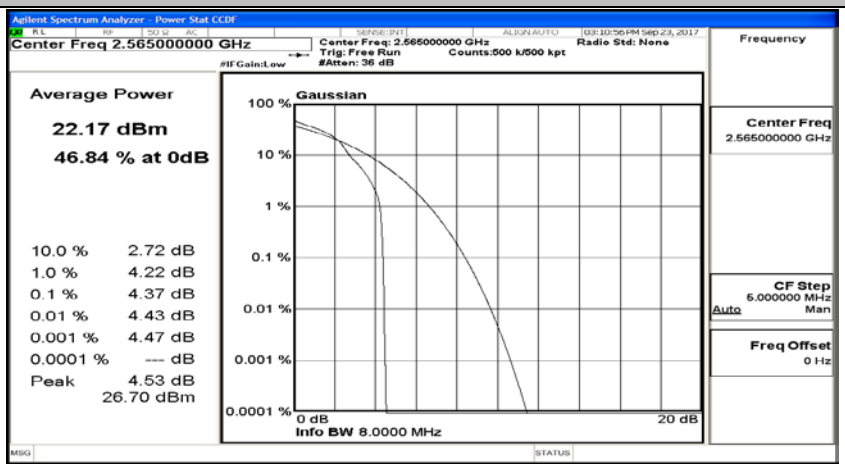
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25



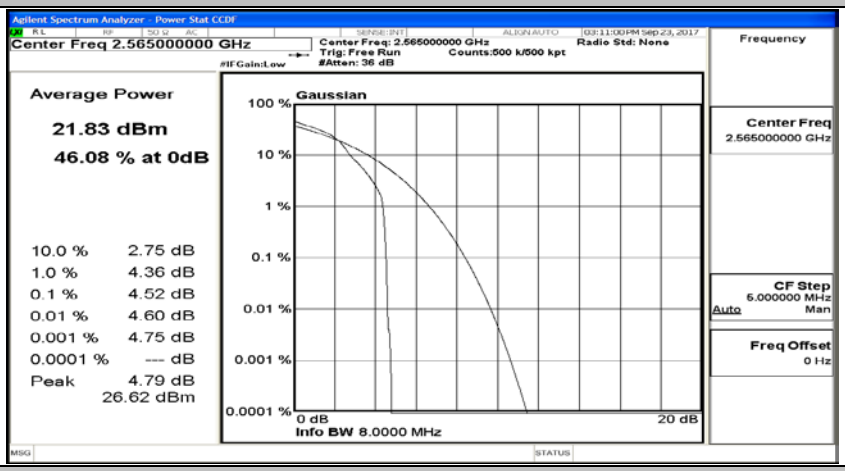

Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0



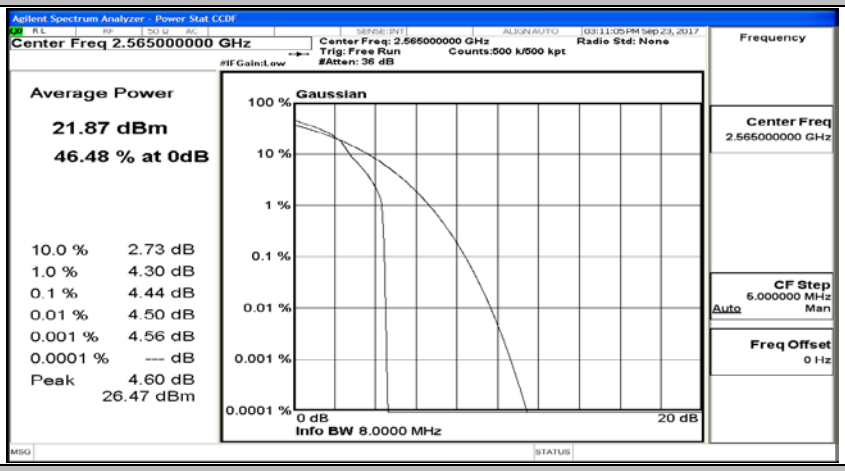

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



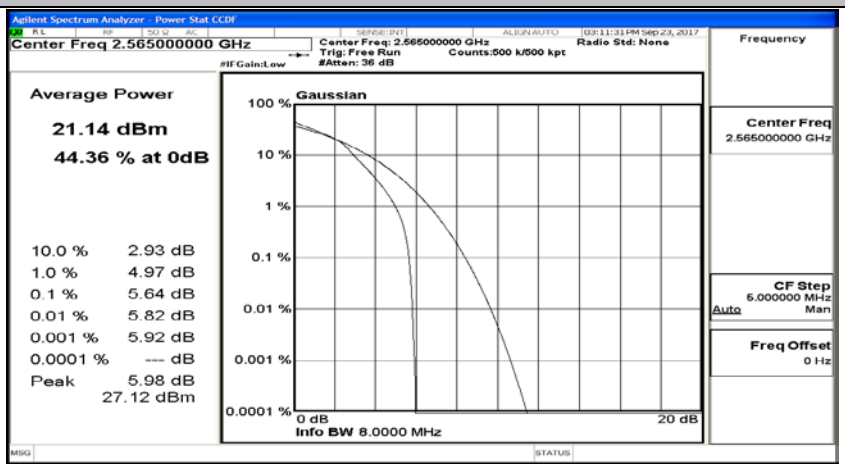
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24



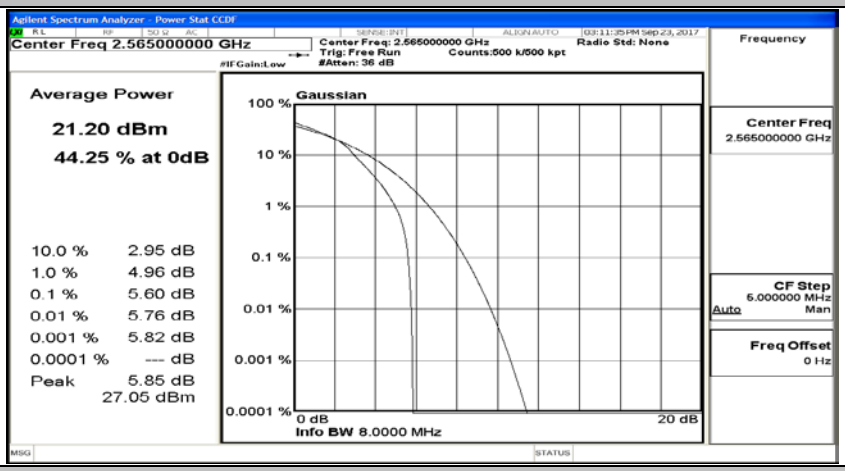

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49



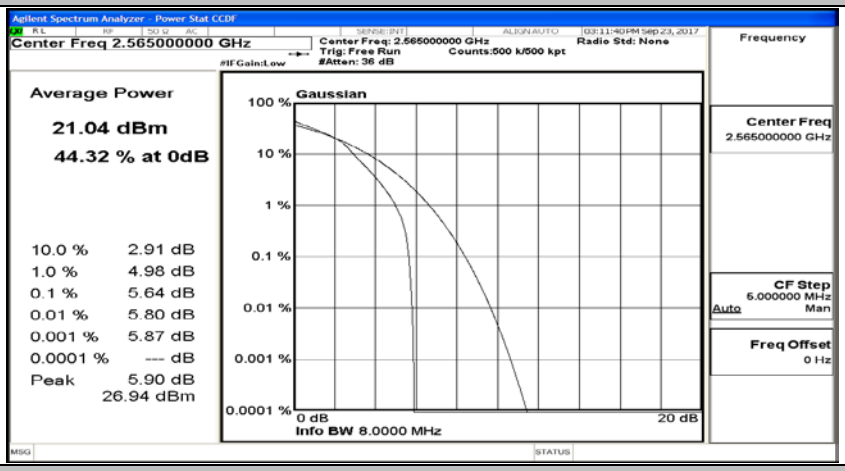

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0

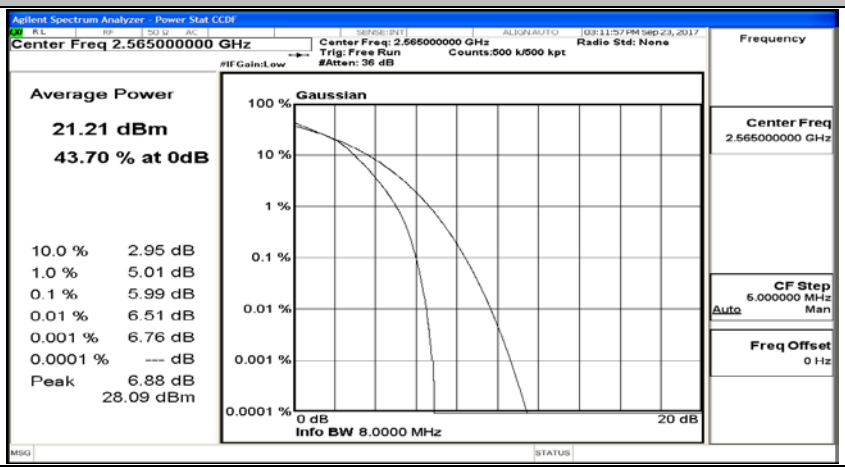


Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12




Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25




Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0