

## 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      | 24.02               | PASS    |
|            |         | 1                | 12     | 24.05               | PASS    |
|            |         | 1                | 24     | 23.89               | PASS    |
|            |         | 12               | 0      | 23.07               | PASS    |
|            |         | 12               | 6      | 23                  | PASS    |
|            |         | 12               | 13     | 22.93               | PASS    |
|            |         | 25               | 0      | 22.97               | PASS    |
|            | MCH     | 1                | 0      | 23.96               | PASS    |
|            |         | 1                | 12     | 23.95               | PASS    |
|            |         | 1                | 24     | 23.73               | PASS    |
|            |         | 12               | 0      | 22.9                | PASS    |
|            |         | 12               | 6      | 22.87               | PASS    |
|            |         | 12               | 13     | 22.82               | PASS    |
|            |         | 25               | 0      | 22.8                | PASS    |
| 16QAM      | HCH     | 1                | 0      | 23.9                | PASS    |
|            |         | 1                | 12     | 23.83               | PASS    |
|            |         | 1                | 24     | 23.67               | PASS    |
|            |         | 12               | 0      | 22.79               | PASS    |
|            |         | 12               | 6      | 22.75               | PASS    |
|            |         | 12               | 13     | 22.71               | PASS    |
|            |         | 25               | 0      | 22.7                | PASS    |
|            | LCH     | 1                | 0      | 23.32               | PASS    |
|            |         | 1                | 12     | 23.29               | PASS    |
|            |         | 1                | 24     | 23.05               | PASS    |
|            |         | 12               | 0      | 22.1                | PASS    |
|            |         | 12               | 6      | 22.02               | PASS    |
|            |         | 12               | 13     | 21.94               | PASS    |
|            |         | 25               | 0      | 21.95               | PASS    |
|            | MCH     | 1                | 0      | 23.09               | PASS    |
|            |         | 1                | 12     | 23.09               | PASS    |
|            |         | 1                | 24     | 22.91               | PASS    |
|            |         | 12               | 0      | 21.97               | PASS    |

|     |     |    |    |       |      |
|-----|-----|----|----|-------|------|
|     |     | 12 | 6  | 21.93 | PASS |
|     |     | 12 | 13 | 21.89 | PASS |
|     |     | 25 | 0  | 21.79 | PASS |
| HCH | HCH | 1  | 0  | 22.99 | PASS |
|     |     | 1  | 12 | 22.97 | PASS |
|     |     | 1  | 24 | 22.8  | PASS |
|     |     | 12 | 0  | 21.76 | PASS |
|     |     | 12 | 6  | 21.72 | PASS |
|     |     | 12 | 13 | 21.69 | PASS |
|     |     | 25 | 0  | 21.71 | PASS |
|     |     |    |    |       |      |

### Channel Bandwidth: 10 MHz

| Modulation | Channel | RB Configuration |        | Average Power [dBm] | Verdict |
|------------|---------|------------------|--------|---------------------|---------|
|            |         | Size             | Offset |                     |         |
| QPSK       | LCH     | 1                | 0      | 24.04               | PASS    |
|            |         | 1                | 24     | 23.83               | PASS    |
|            |         | 1                | 49     | 23.66               | PASS    |
|            |         | 25               | 0      | 22.97               | PASS    |
|            |         | 25               | 12     | 22.86               | PASS    |
|            |         | 25               | 25     | 22.8                | PASS    |
|            |         | 50               | 0      | 22.88               | PASS    |
|            | MCH     | 1                | 0      | 24.12               | PASS    |
|            |         | 1                | 24     | 23.86               | PASS    |
|            |         | 1                | 49     | 23.64               | PASS    |
|            |         | 25               | 0      | 23.19               | PASS    |
|            |         | 25               | 12     | 22.84               | PASS    |
|            |         | 25               | 25     | 22.75               | PASS    |
|            |         | 50               | 0      | 22.83               | PASS    |
| 16QAM      | HCH     | 1                | 0      | 24.01               | PASS    |
|            |         | 1                | 24     | 23.83               | PASS    |
|            |         | 1                | 49     | 23.63               | PASS    |
|            |         | 25               | 0      | 22.88               | PASS    |
|            |         | 25               | 12     | 22.82               | PASS    |
|            |         | 25               | 25     | 22.7                | PASS    |
|            |         | 50               | 0      | 22.8                | PASS    |
|            | LCH     | 1                | 0      | 23.28               | PASS    |
|            |         | 1                | 24     | 23.03               | PASS    |
|            |         | 1                | 49     | 22.88               | PASS    |
|            |         | 25               | 0      | 21.93               | PASS    |
|            |         | 25               | 12     | 21.84               | PASS    |
|            |         | 25               | 25     | 21.78               | PASS    |
|            |         | 50               | 0      | 21.87               | PASS    |

|  |     |    |    |       |      |
|--|-----|----|----|-------|------|
|  | MCH | 1  | 0  | 23.34 | PASS |
|  |     | 1  | 24 | 23.12 | PASS |
|  |     | 1  | 49 | 22.99 | PASS |
|  |     | 25 | 0  | 21.88 | PASS |
|  |     | 25 | 12 | 21.84 | PASS |
|  |     | 25 | 25 | 21.77 | PASS |
|  |     | 50 | 0  | 21.85 | PASS |
|  | HCH | 1  | 0  | 23.18 | PASS |
|  |     | 1  | 24 | 23    | PASS |
|  |     | 1  | 49 | 22.85 | PASS |
|  |     | 25 | 0  | 21.84 | PASS |
|  |     | 25 | 12 | 21.79 | PASS |
|  |     | 25 | 25 | 21.7  | PASS |
|  |     | 50 | 0  | 21.81 | 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<br>[dB] | Limit<br>[dB] | Verdict |
|                          |         | Size             | Offset |                               |               |         |
| QPSK                     | LCH     | 1                | 0      | 4.02                          | <13           | PASS    |
|                          |         | 1                | 12     | 3.63                          | <13           | PASS    |
|                          |         | 1                | 24     | 3.5                           | <13           | PASS    |
|                          |         | 12               | 0      | 4.63                          | <13           | PASS    |
|                          |         | 12               | 6      | 4.47                          | <13           | PASS    |
|                          |         | 12               | 13     | 4.28                          | <13           | PASS    |
|                          |         | 25               | 0      | 4.57                          | <13           | PASS    |
|                          | MCH     | 1                | 0      | 3.47                          | <13           | PASS    |
|                          |         | 1                | 12     | 3.43                          | <13           | PASS    |
|                          |         | 1                | 24     | 3.71                          | <13           | PASS    |
|                          |         | 12               | 0      | 4.26                          | <13           | PASS    |
|                          |         | 12               | 6      | 4.23                          | <13           | PASS    |
|                          |         | 12               | 13     | 4.34                          | <13           | PASS    |
|                          |         | 25               | 0      | 4.44                          | <13           | PASS    |
| 16QAM                    | LCH     | 1                | 0      | 3.66                          | <13           | PASS    |
|                          |         | 1                | 12     | 3.9                           | <13           | PASS    |
|                          |         | 1                | 24     | 3.99                          | <13           | PASS    |
|                          |         | 12               | 0      | 4.54                          | <13           | PASS    |
|                          |         | 12               | 6      | 4.7                           | <13           | PASS    |
|                          |         | 12               | 13     | 4.79                          | <13           | PASS    |
|                          |         | 25               | 0      | 4.84                          | <13           | PASS    |
|                          | MCH     | 1                | 0      | 5.01                          | <13           | PASS    |
|                          |         | 1                | 12     | 4.6                           | <13           | PASS    |
|                          |         | 1                | 24     | 4.57                          | <13           | PASS    |
|                          |         | 12               | 0      | 5.51                          | <13           | PASS    |
|                          |         | 12               | 6      | 5.31                          | <13           | PASS    |
|                          |         | 12               | 13     | 5.22                          | <13           | PASS    |
|                          |         | 25               | 0      | 5.49                          | <13           | PASS    |

|     |  |    |    |      |     |      |
|-----|--|----|----|------|-----|------|
|     |  | 12 | 6  | 5.1  | <13 | PASS |
|     |  | 12 | 13 | 5.21 | <13 | PASS |
|     |  | 25 | 0  | 5.28 | <13 | PASS |
| HCH |  | 1  | 0  | 4.38 | <13 | PASS |
|     |  | 1  | 12 | 4.85 | <13 | PASS |
|     |  | 1  | 24 | 4.69 | <13 | PASS |
|     |  | 12 | 0  | 5.37 | <13 | PASS |
|     |  | 12 | 6  | 5.58 | <13 | PASS |
|     |  | 12 | 13 | 5.67 | <13 | PASS |
|     |  | 25 | 0  | 5.65 | <13 | PASS |

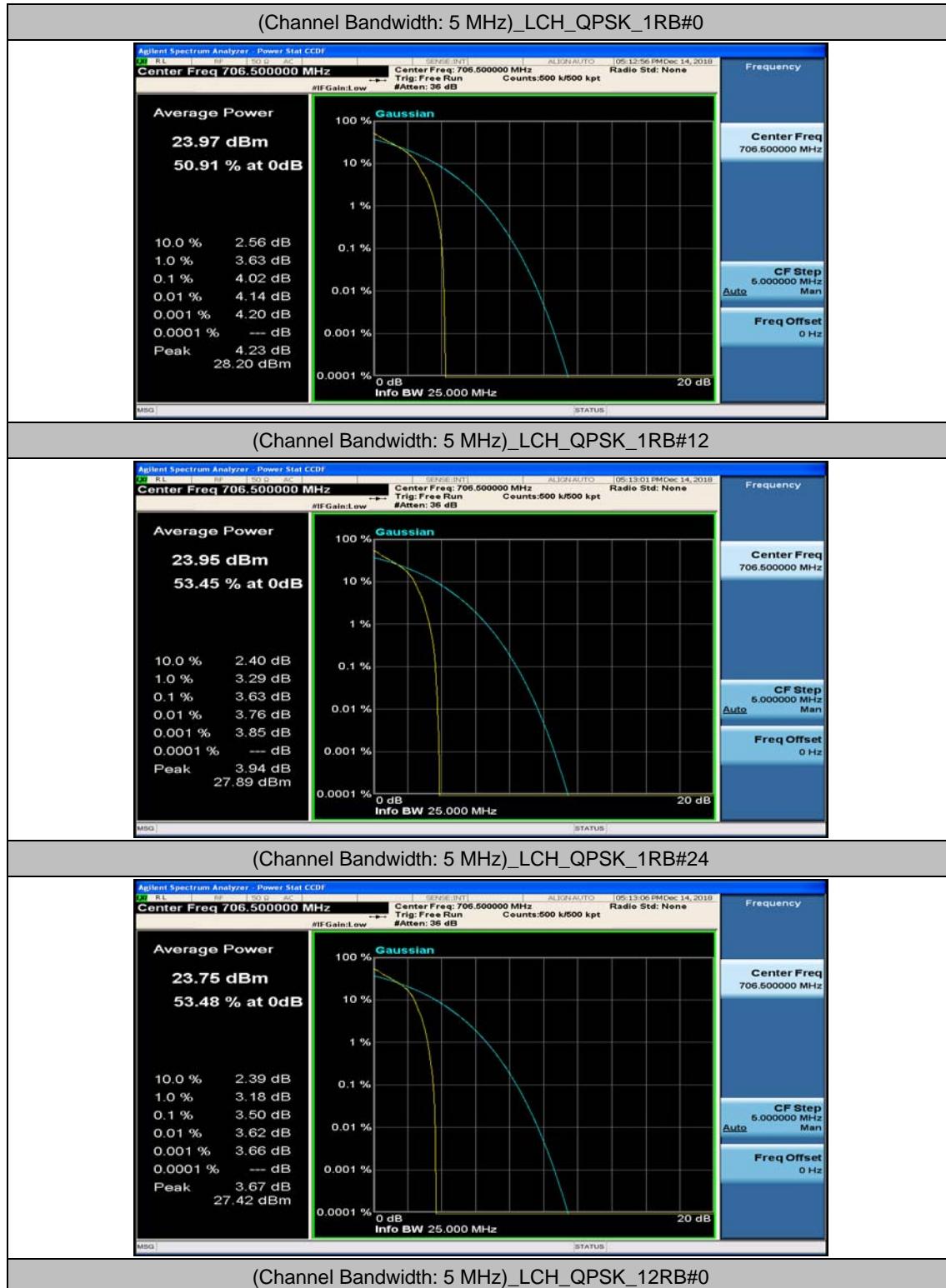
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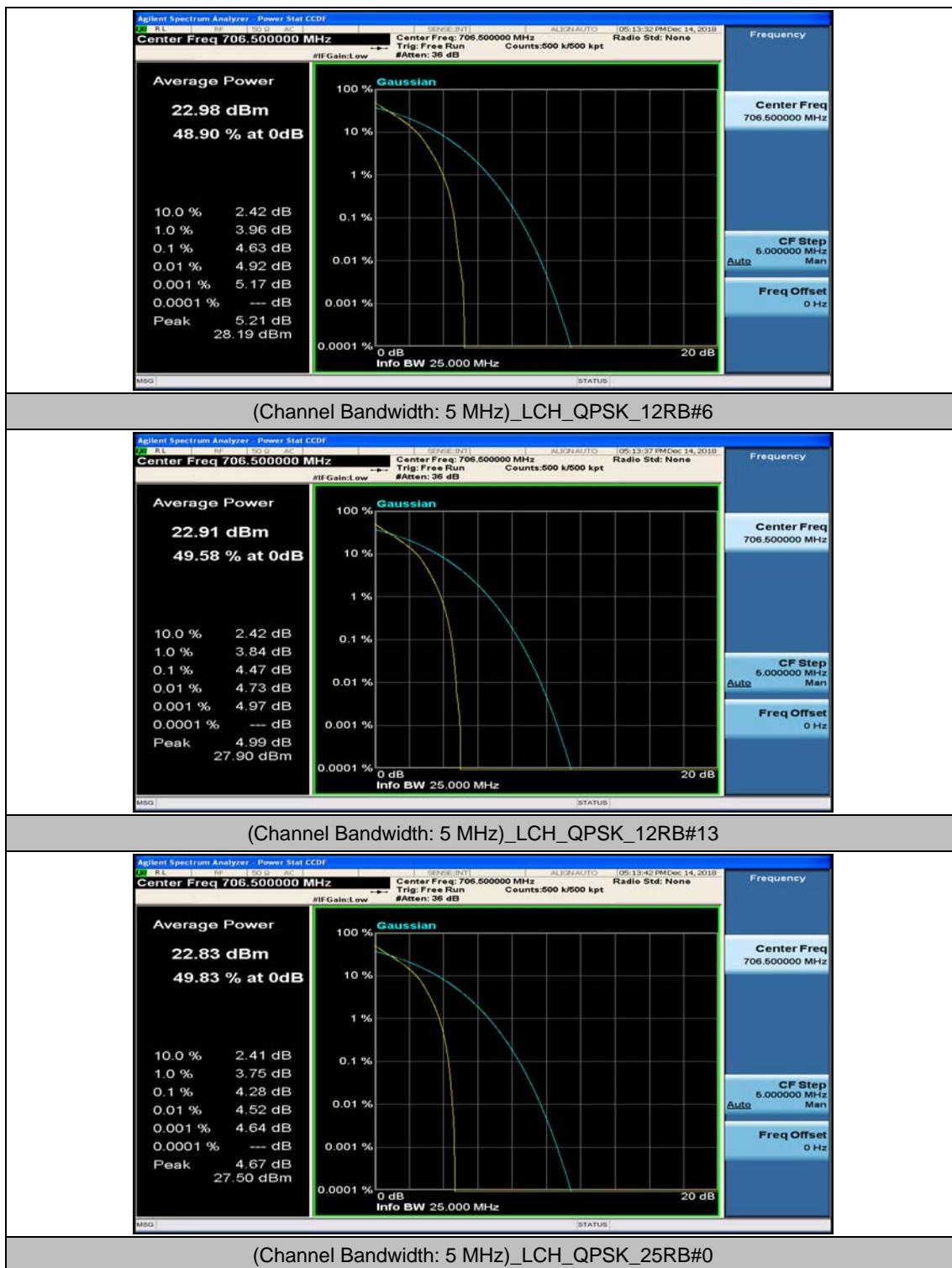
| Channel Bandwidth: 10 MHz |         |                  |        |                               |               |         |
|---------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation                | Channel | RB Configuration |        | Peak-to-Average Ratio<br>[dB] | Limit<br>[dB] | Verdict |
|                           |         | Size             | Offset |                               |               |         |
| QPSK                      | LCH     | 1                | 0      | 3.94                          | <13           | PASS    |
|                           |         | 1                | 24     | 3.51                          | <13           | PASS    |
|                           |         | 1                | 49     | 3.83                          | <13           | PASS    |
|                           |         | 25               | 0      | 4.58                          | <13           | PASS    |
|                           |         | 25               | 12     | 4.34                          | <13           | PASS    |
|                           |         | 25               | 25     | 4.48                          | <13           | PASS    |
|                           |         | 50               | 0      | 4.74                          | <13           | PASS    |
|                           | MCH     | 1                | 0      | 3.63                          | <13           | PASS    |
|                           |         | 1                | 24     | 3.37                          | <13           | PASS    |
|                           |         | 1                | 49     | 3.92                          | <13           | PASS    |
|                           |         | 25               | 0      | 4.47                          | <13           | PASS    |
|                           |         | 25               | 12     | 4.41                          | <13           | PASS    |
|                           |         | 25               | 25     | 4.64                          | <13           | PASS    |
|                           |         | 50               | 0      | 4.78                          | <13           | PASS    |
|                           | HCH     | 1                | 0      | 3.62                          | <13           | PASS    |
|                           |         | 1                | 24     | 3.41                          | <13           | PASS    |
|                           |         | 1                | 49     | 3.76                          | <13           | PASS    |
|                           |         | 25               | 0      | 4.33                          | <13           | PASS    |
|                           |         | 25               | 12     | 4.4                           | <13           | PASS    |
|                           |         | 25               | 25     | 4.75                          | <13           | PASS    |
|                           |         | 50               | 0      | 4.78                          | <13           | PASS    |
| 16QAM                     | LCH     | 1                | 0      | 4.99                          | <13           | PASS    |
|                           |         | 1                | 24     | 4.46                          | <13           | PASS    |
|                           |         | 1                | 49     | 4.87                          | <13           | PASS    |
|                           |         | 25               | 0      | 5.47                          | <13           | PASS    |
|                           |         | 25               | 12     | 5.22                          | <13           | PASS    |

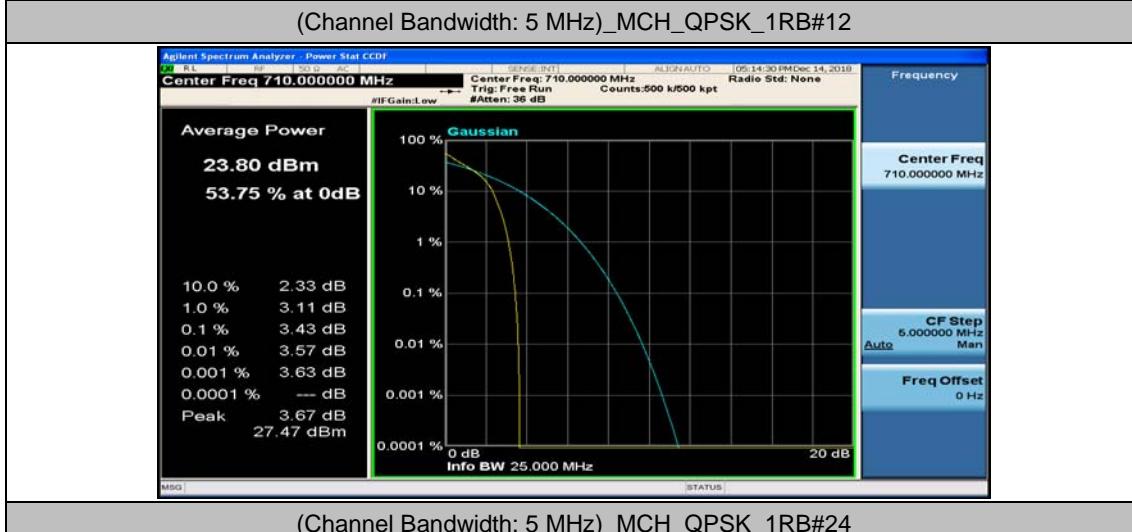
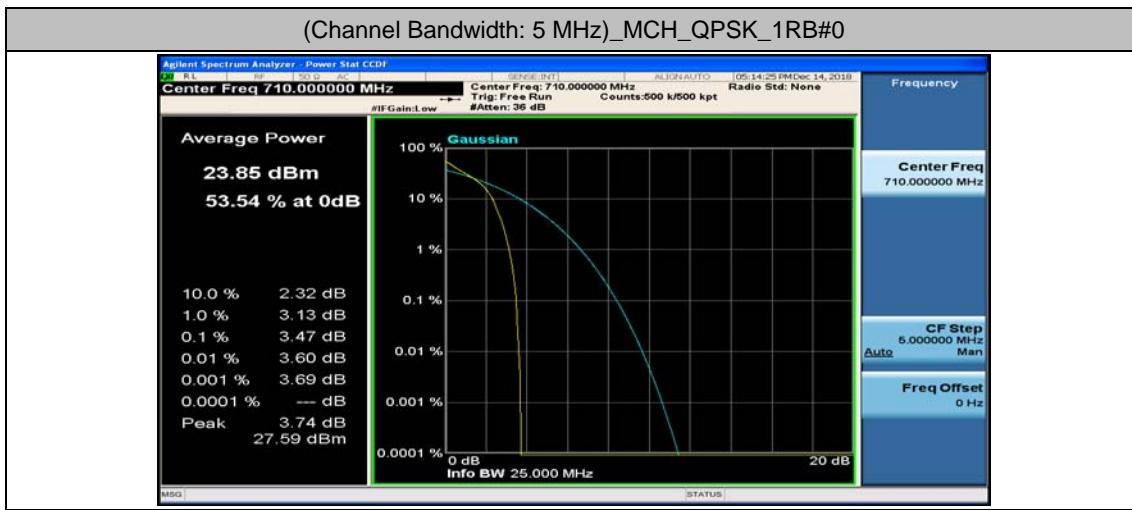
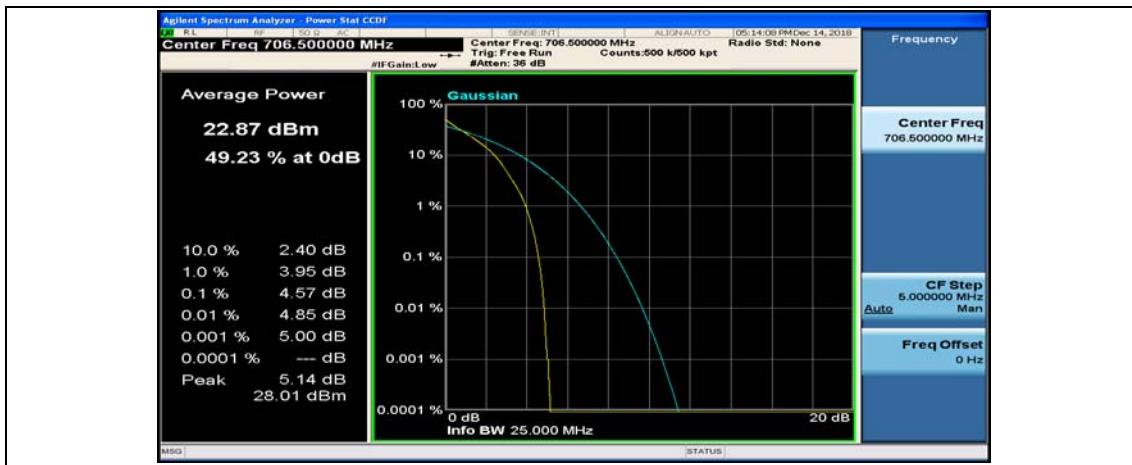
|     |    |    |      |      |      |      |
|-----|----|----|------|------|------|------|
|     |    | 25 | 25   | 5.35 | <13  | PASS |
|     |    | 50 | 0    | 5.54 | <13  | PASS |
| MCH | 1  | 0  | 4.69 | <13  | PASS |      |
|     | 1  | 24 | 4.33 | <13  | PASS |      |
|     | 1  | 49 | 4.9  | <13  | PASS |      |
|     | 25 | 0  | 5.36 | <13  | PASS |      |
|     | 25 | 12 | 5.3  | <13  | PASS |      |
|     | 25 | 25 | 5.51 | <13  | PASS |      |
|     | 50 | 0  | 5.58 | <13  | PASS |      |
| HCH | 1  | 0  | 4.68 | <13  | PASS |      |
|     | 1  | 24 | 4.42 | <13  | PASS |      |
|     | 1  | 49 | 4.84 | <13  | PASS |      |
|     | 25 | 0  | 5.29 | <13  | PASS |      |
|     | 25 | 12 | 5.3  | <13  | PASS |      |
|     | 25 | 25 | 5.7  | <13  | PASS |      |
|     | 50 | 0  | 5.6  | <13  | PASS |      |

## Test Graphs

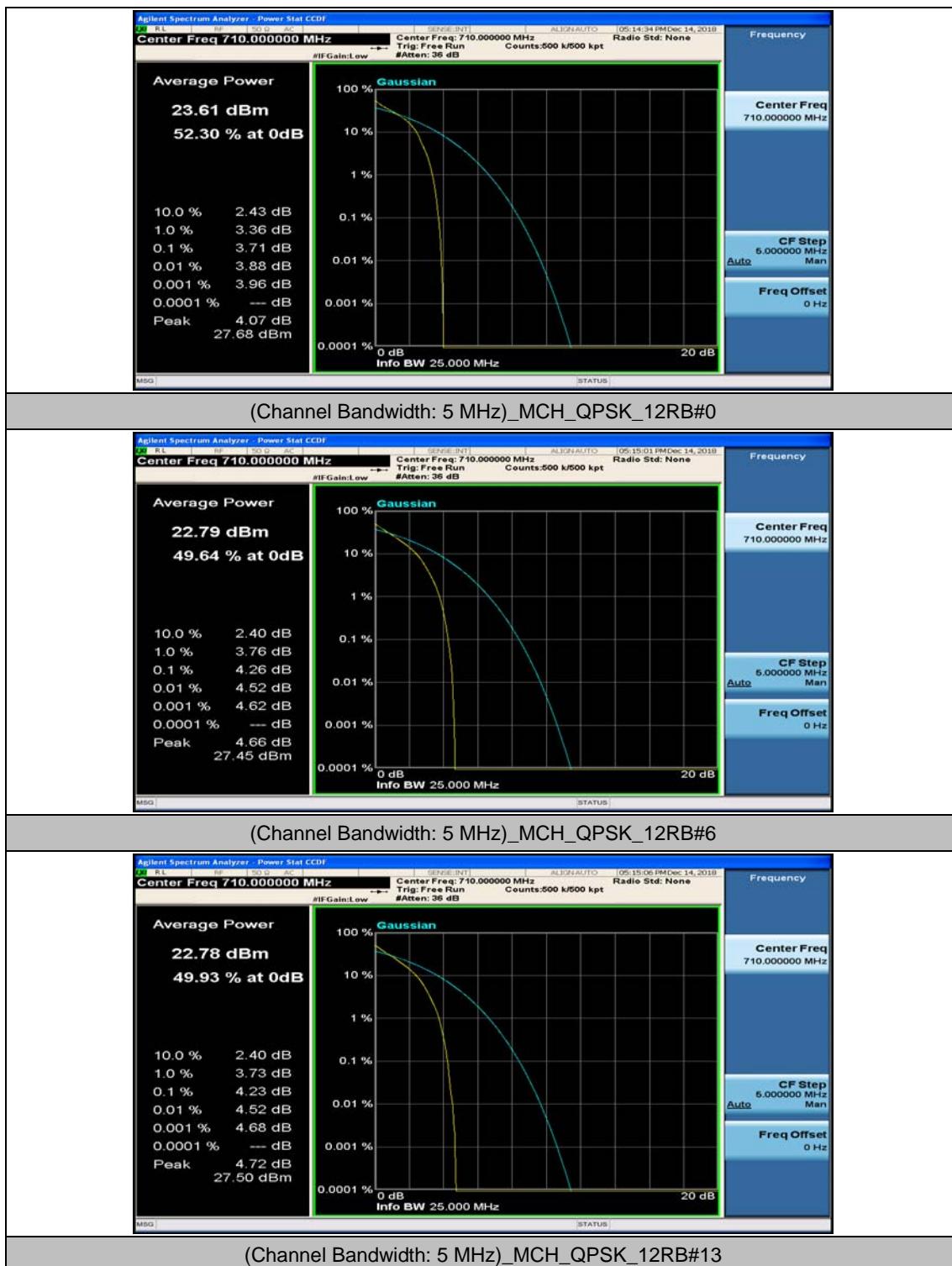
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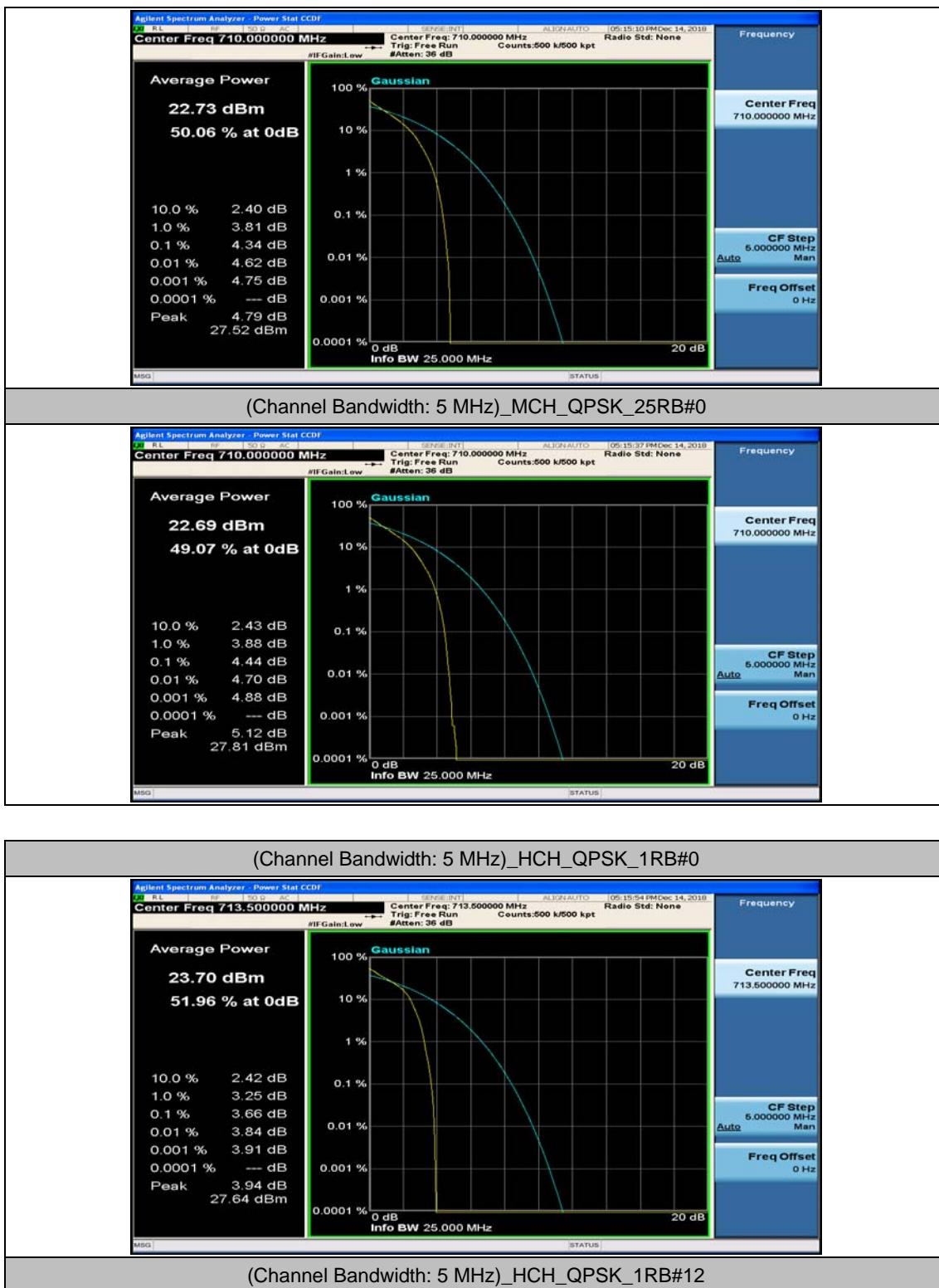


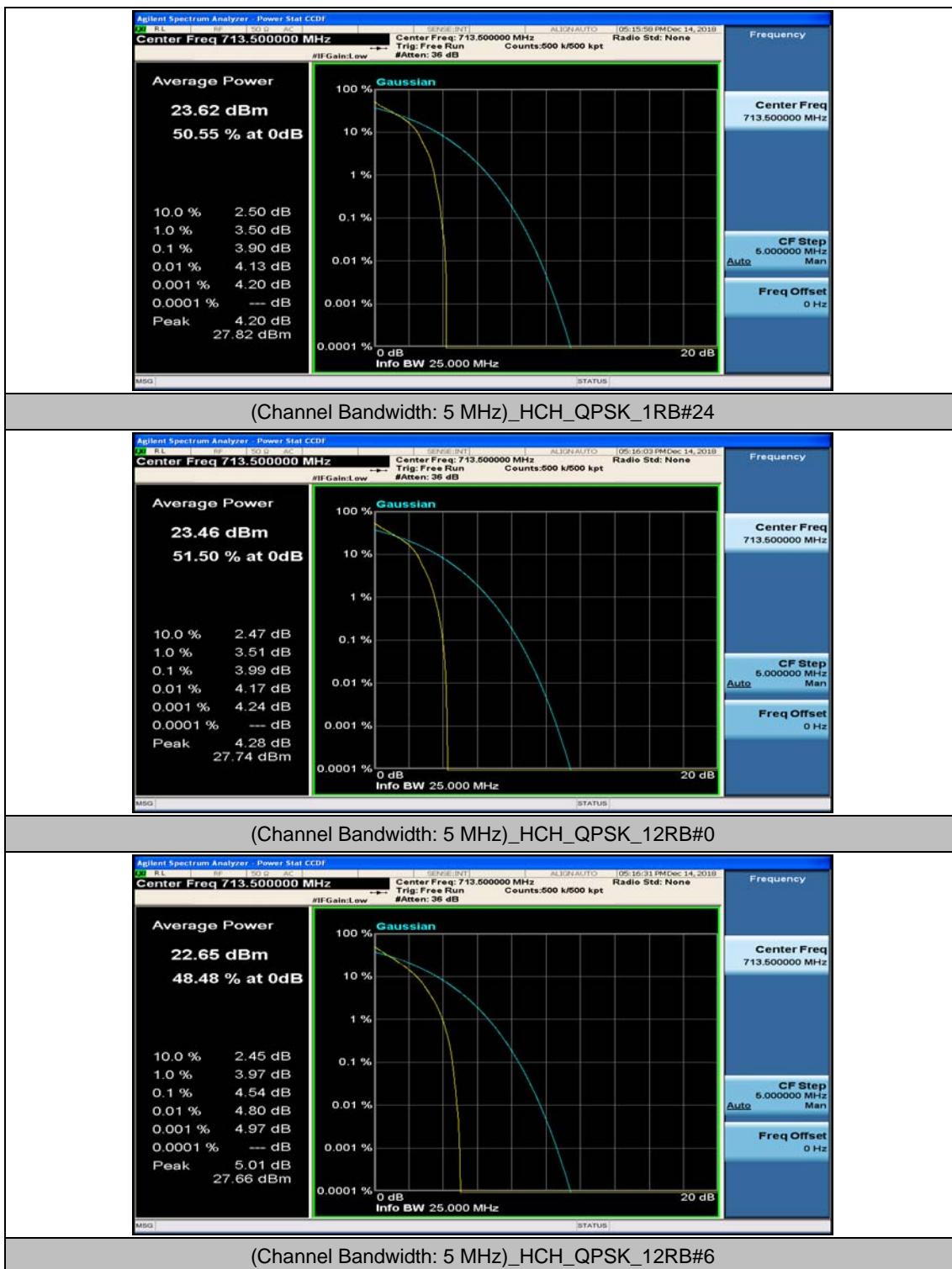


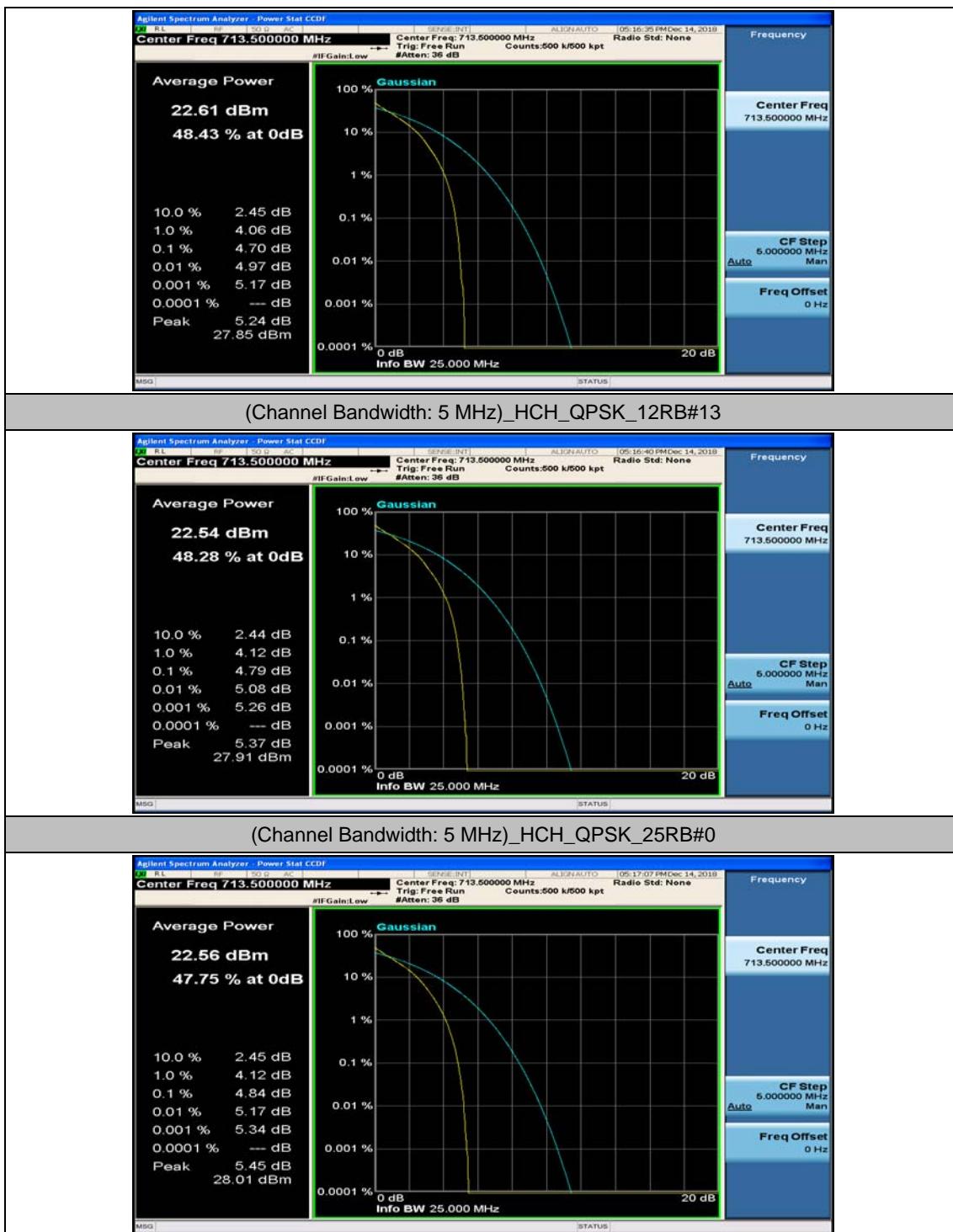


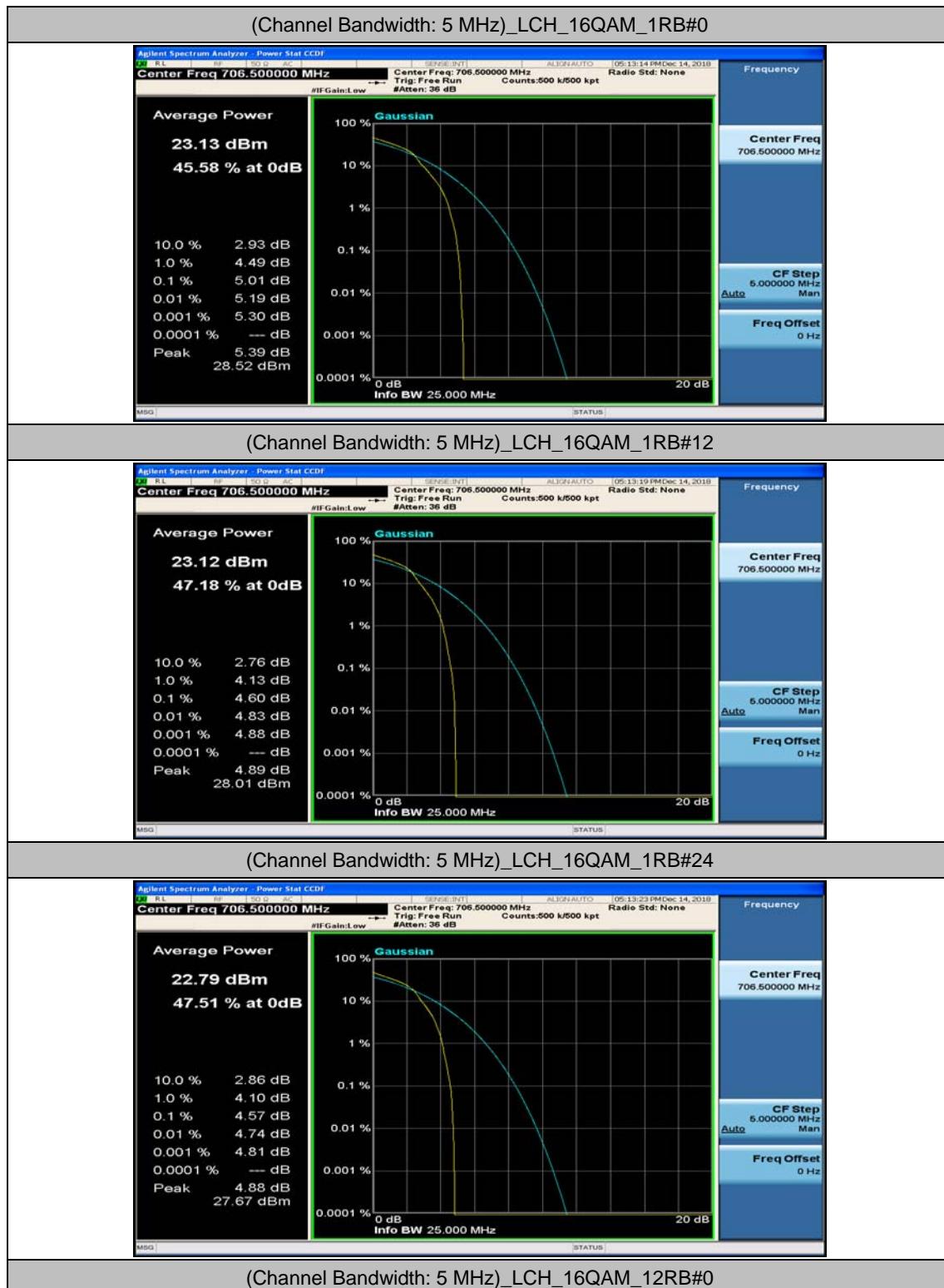
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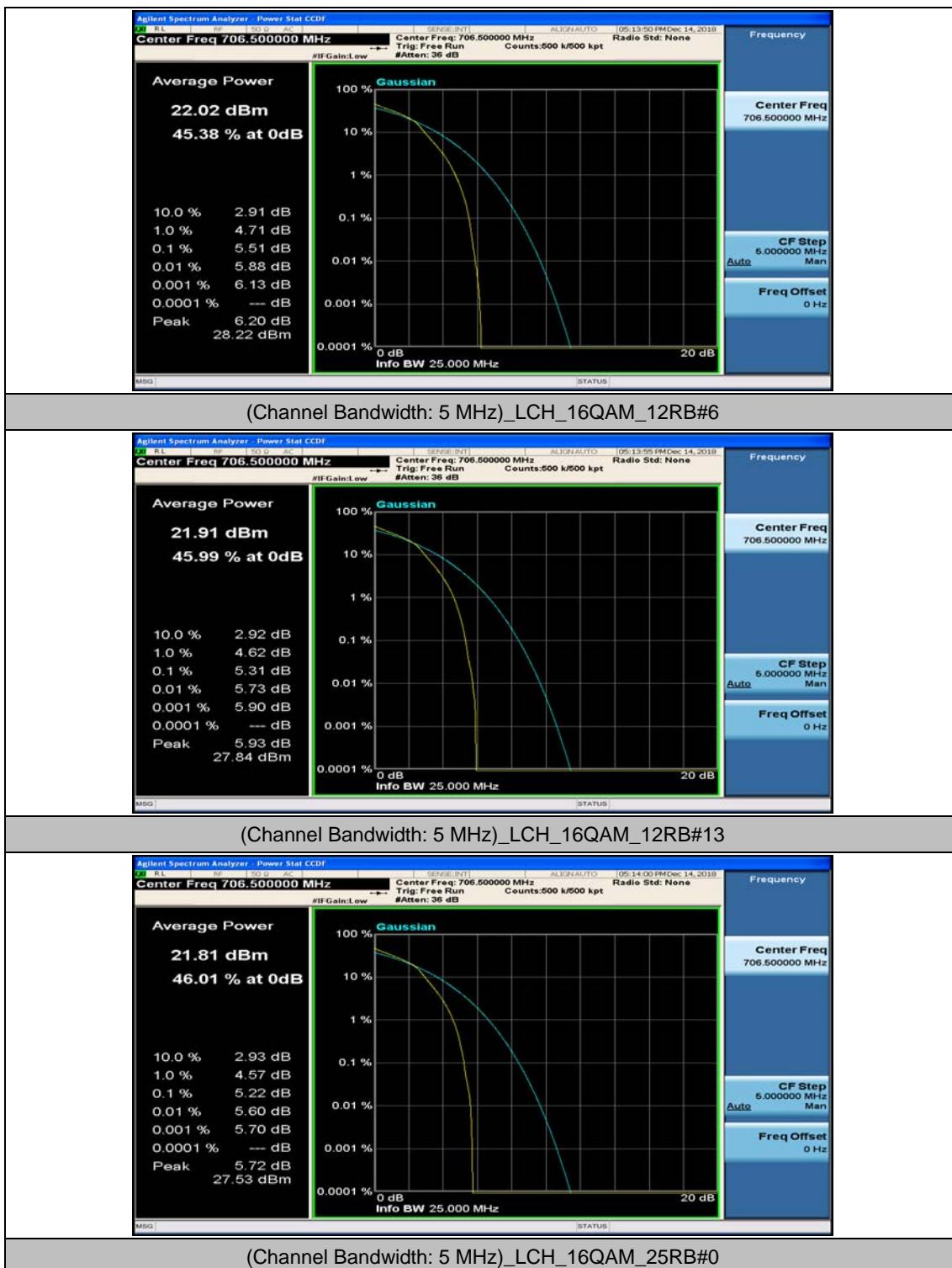


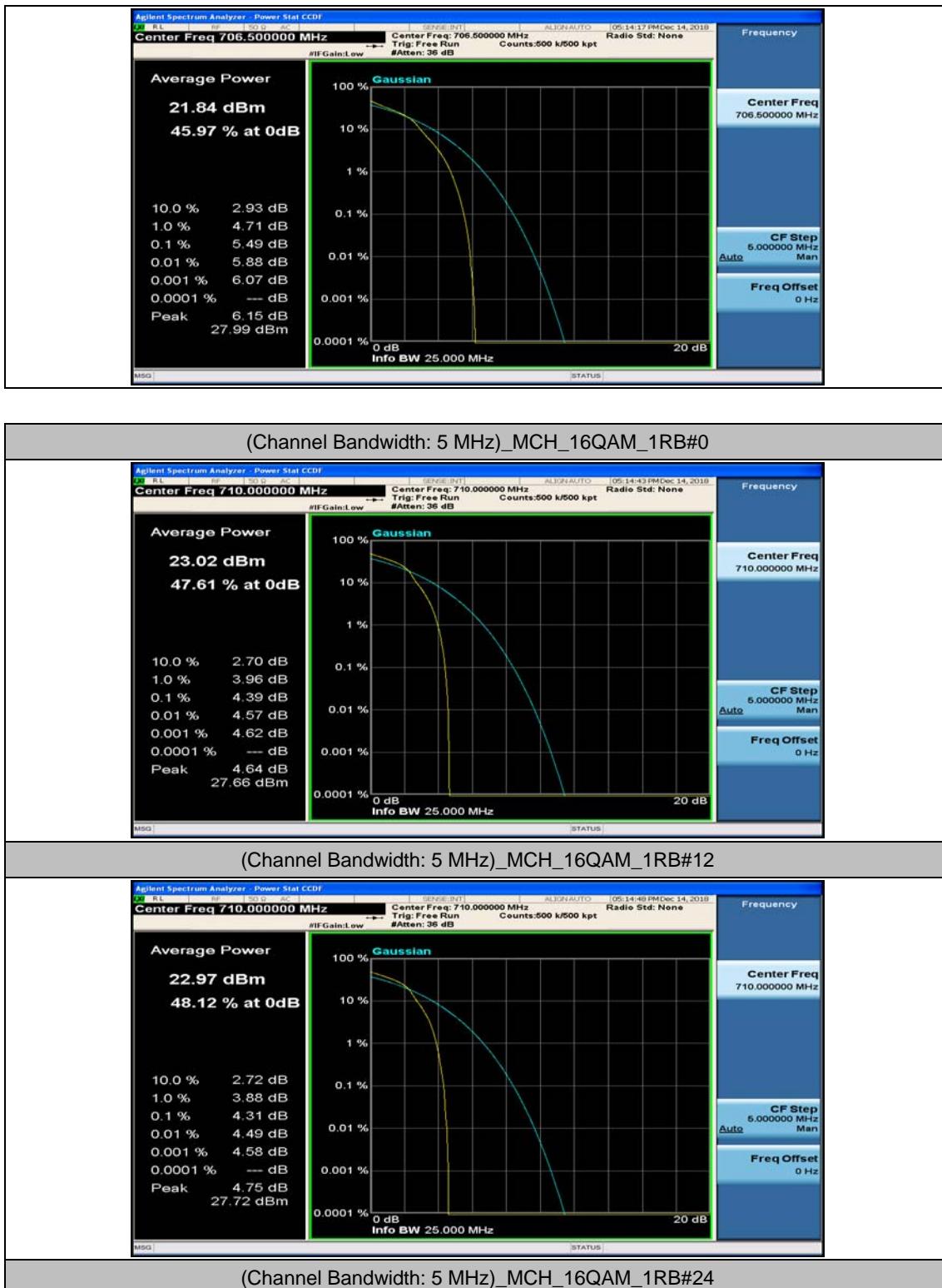


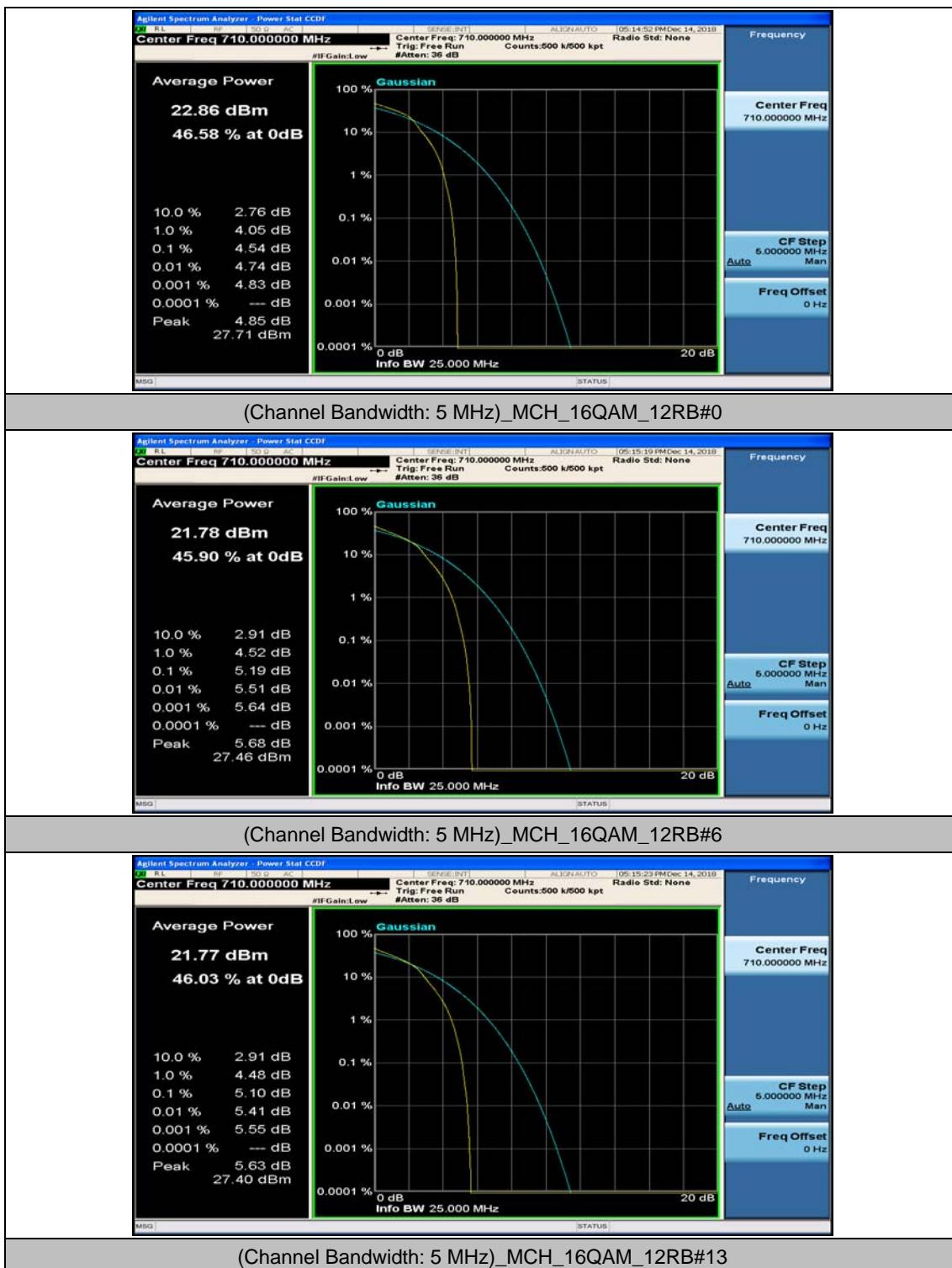


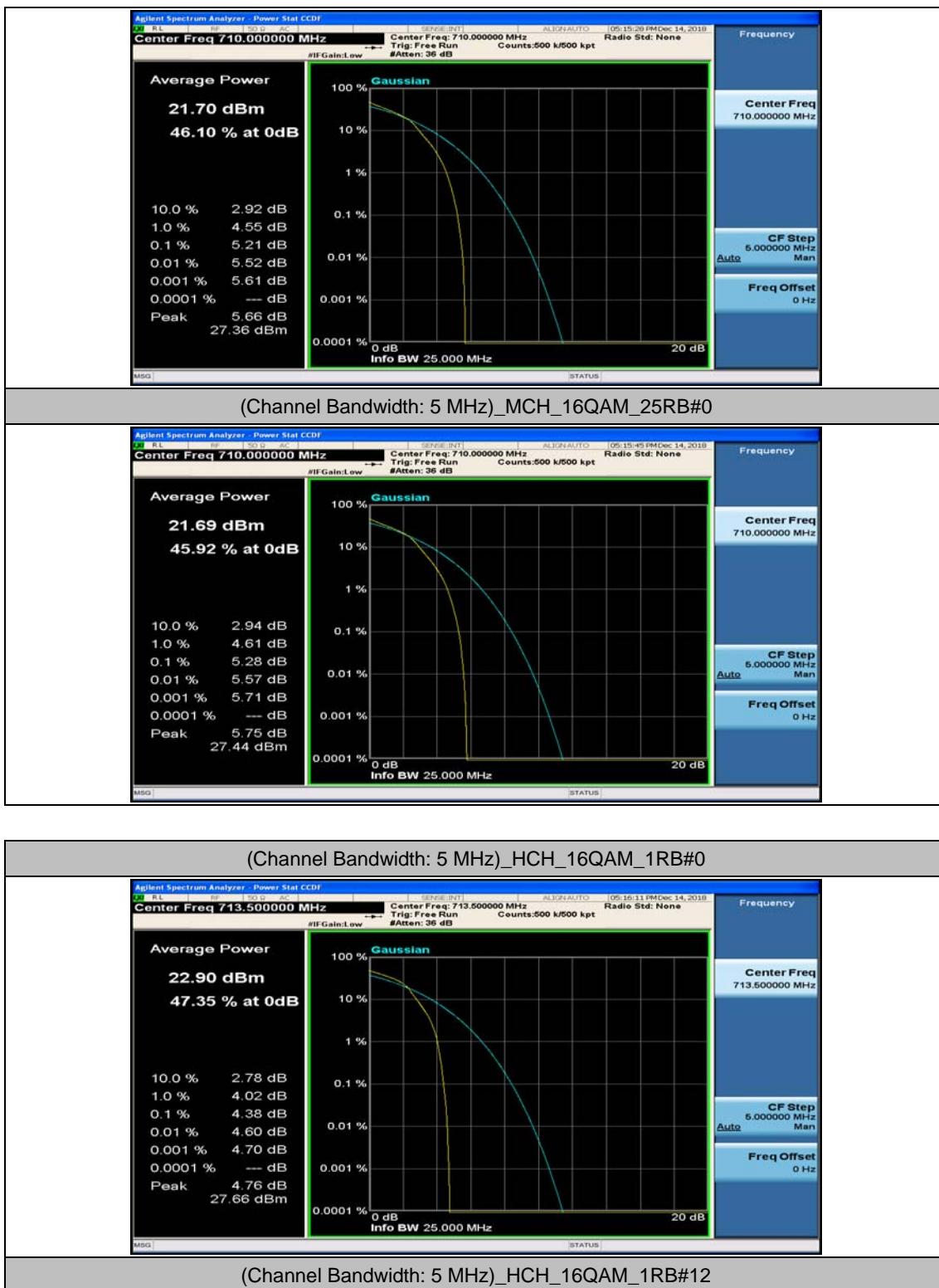


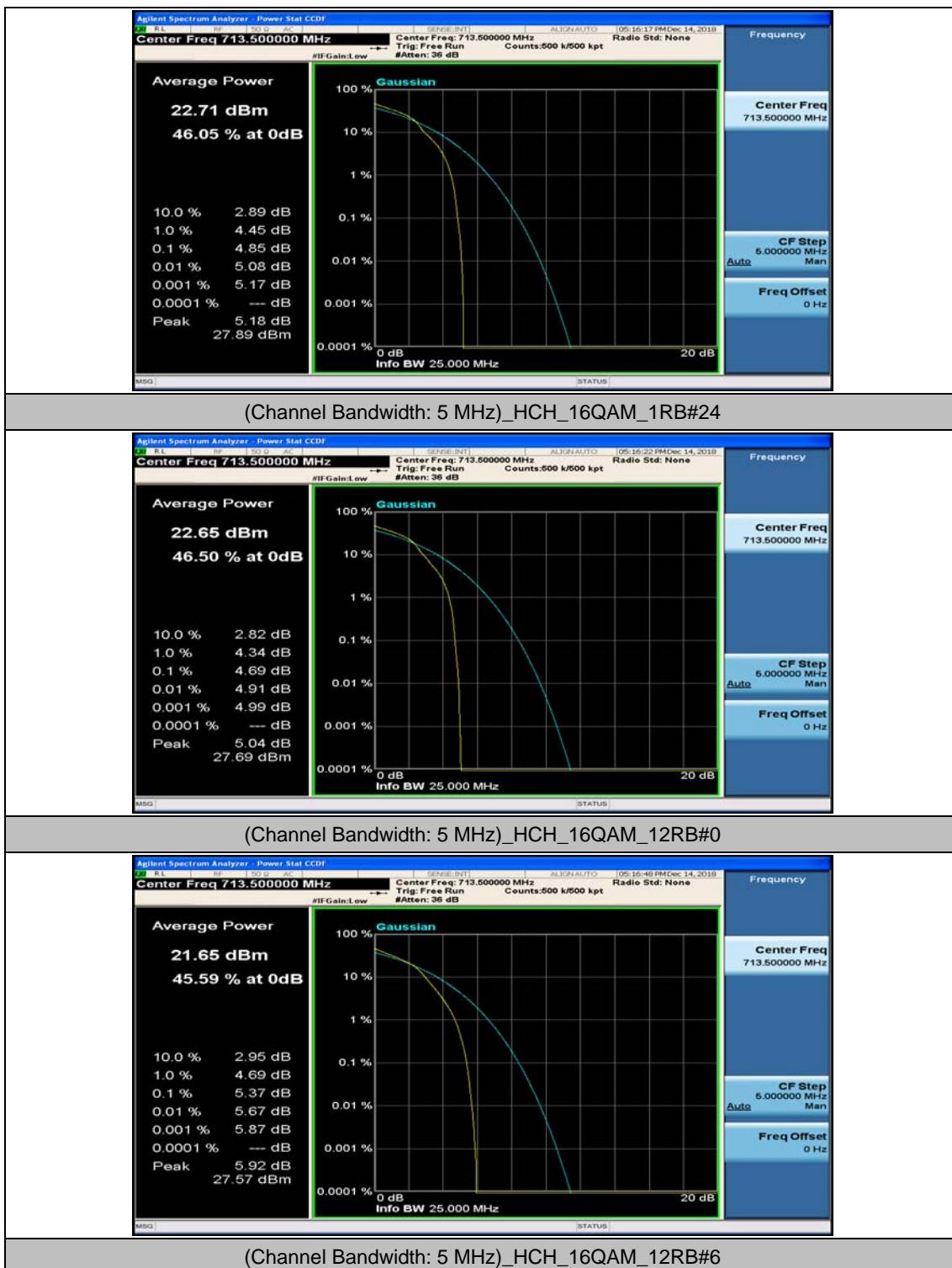


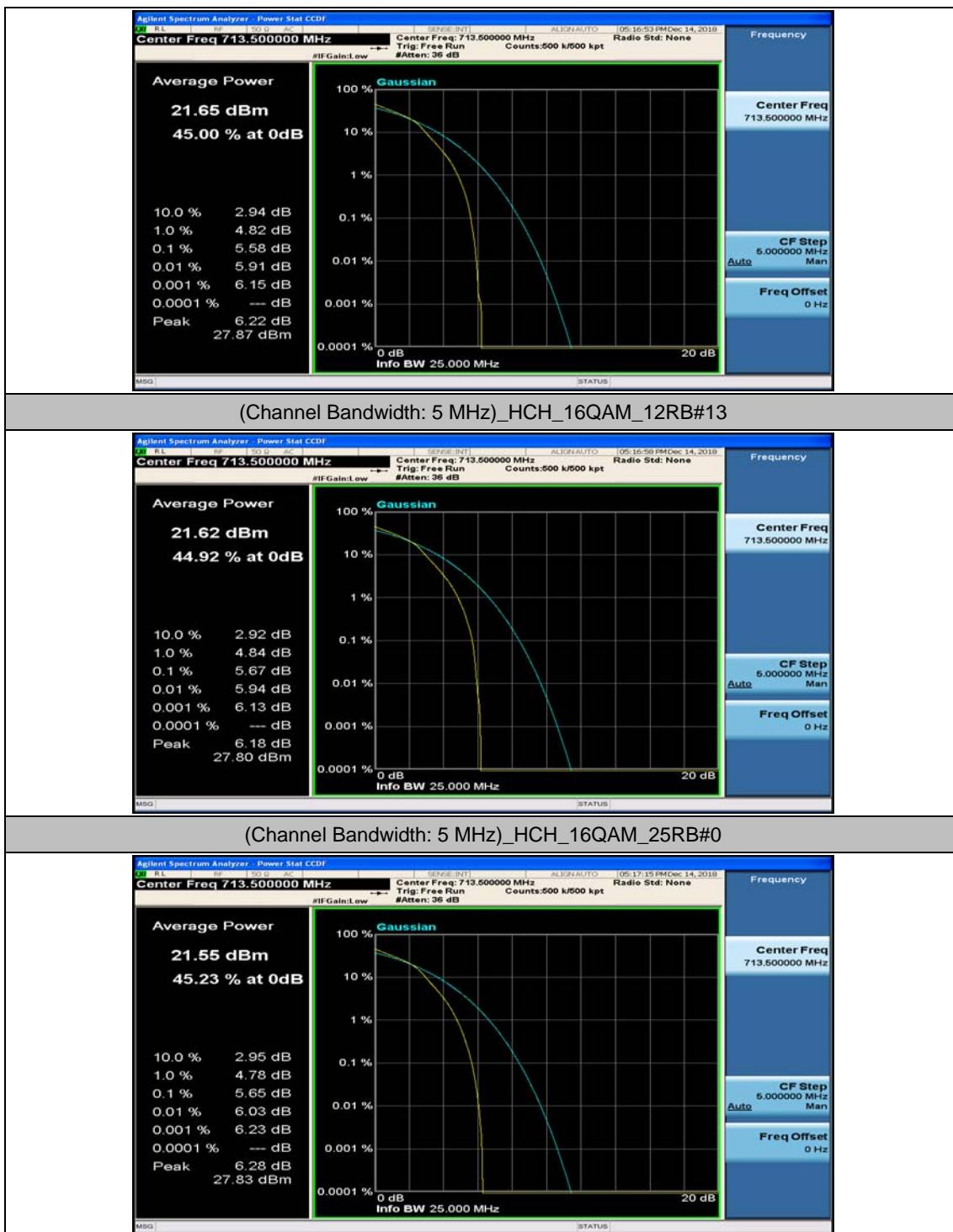




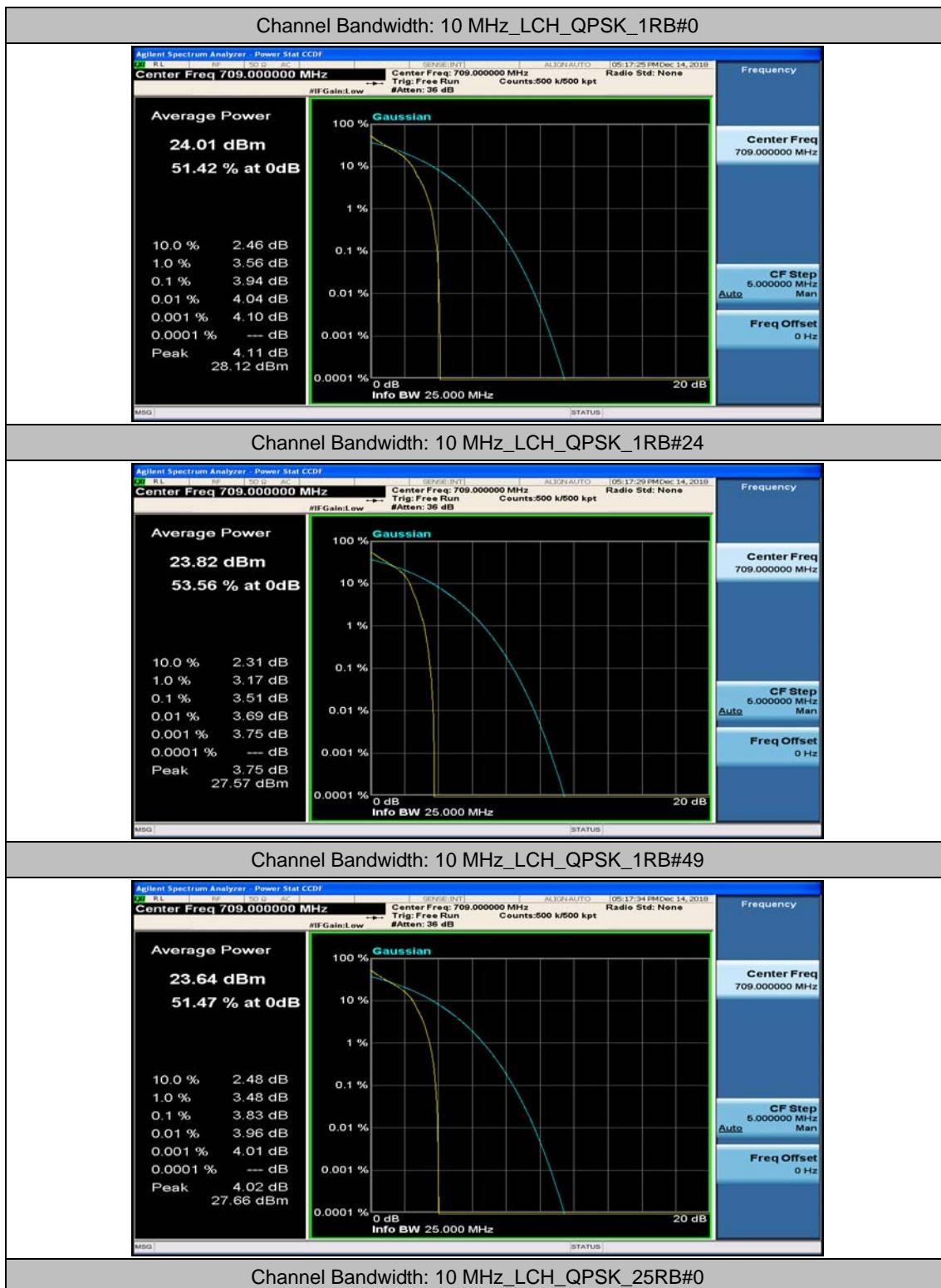


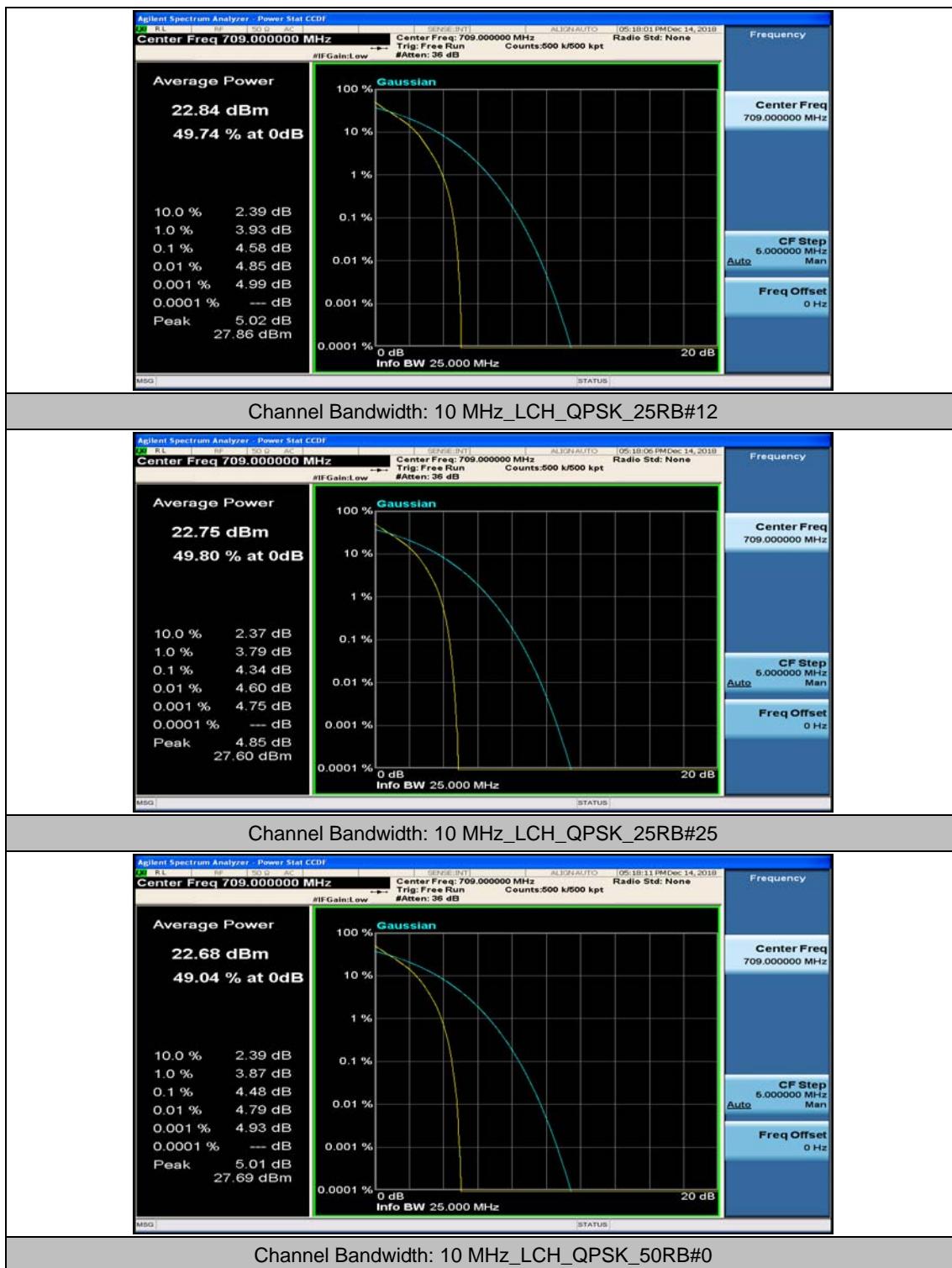


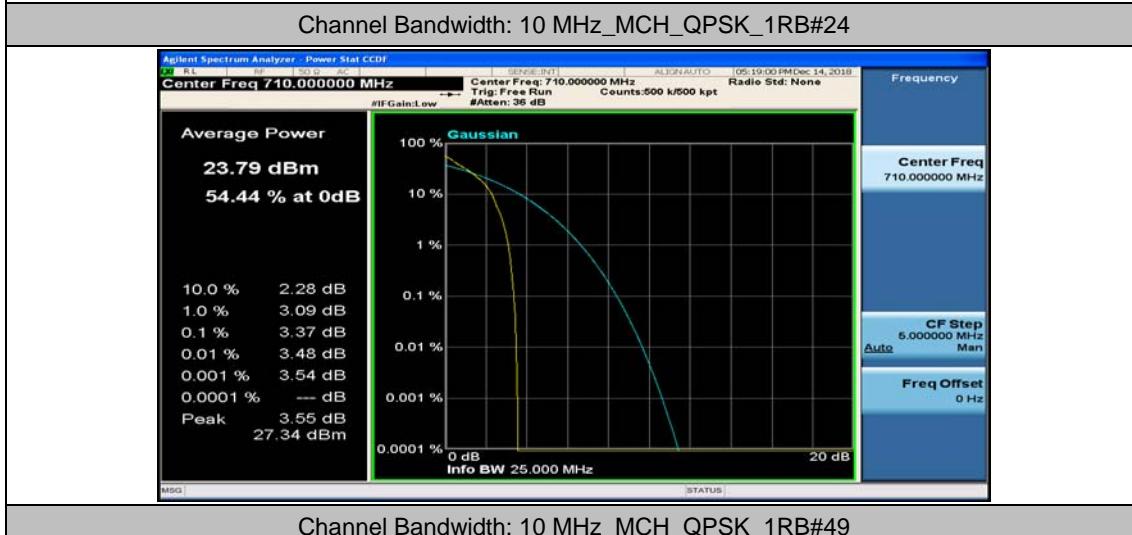
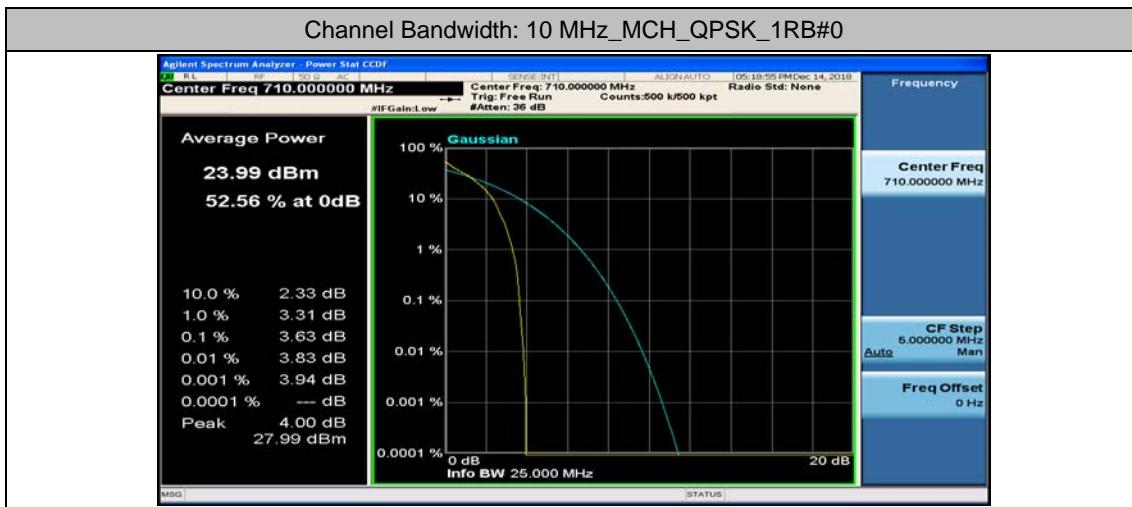
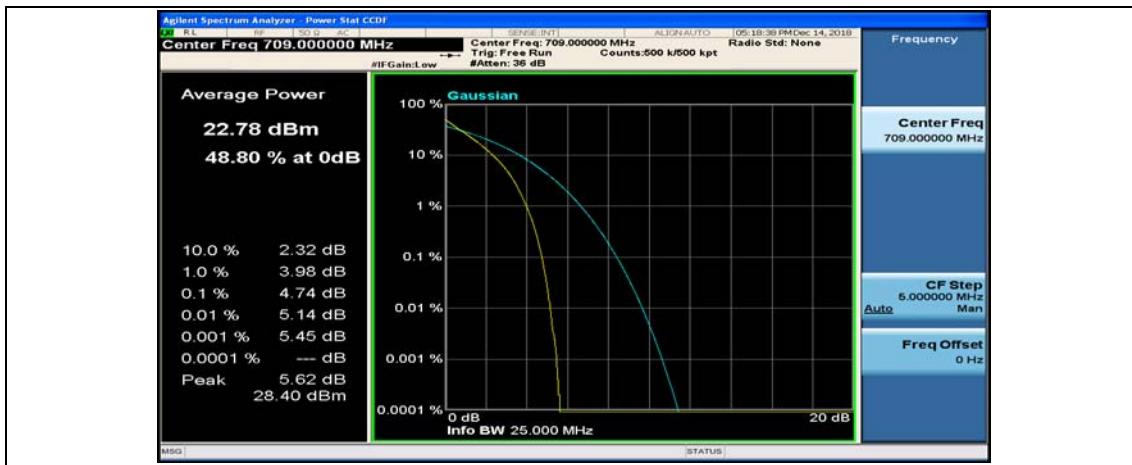




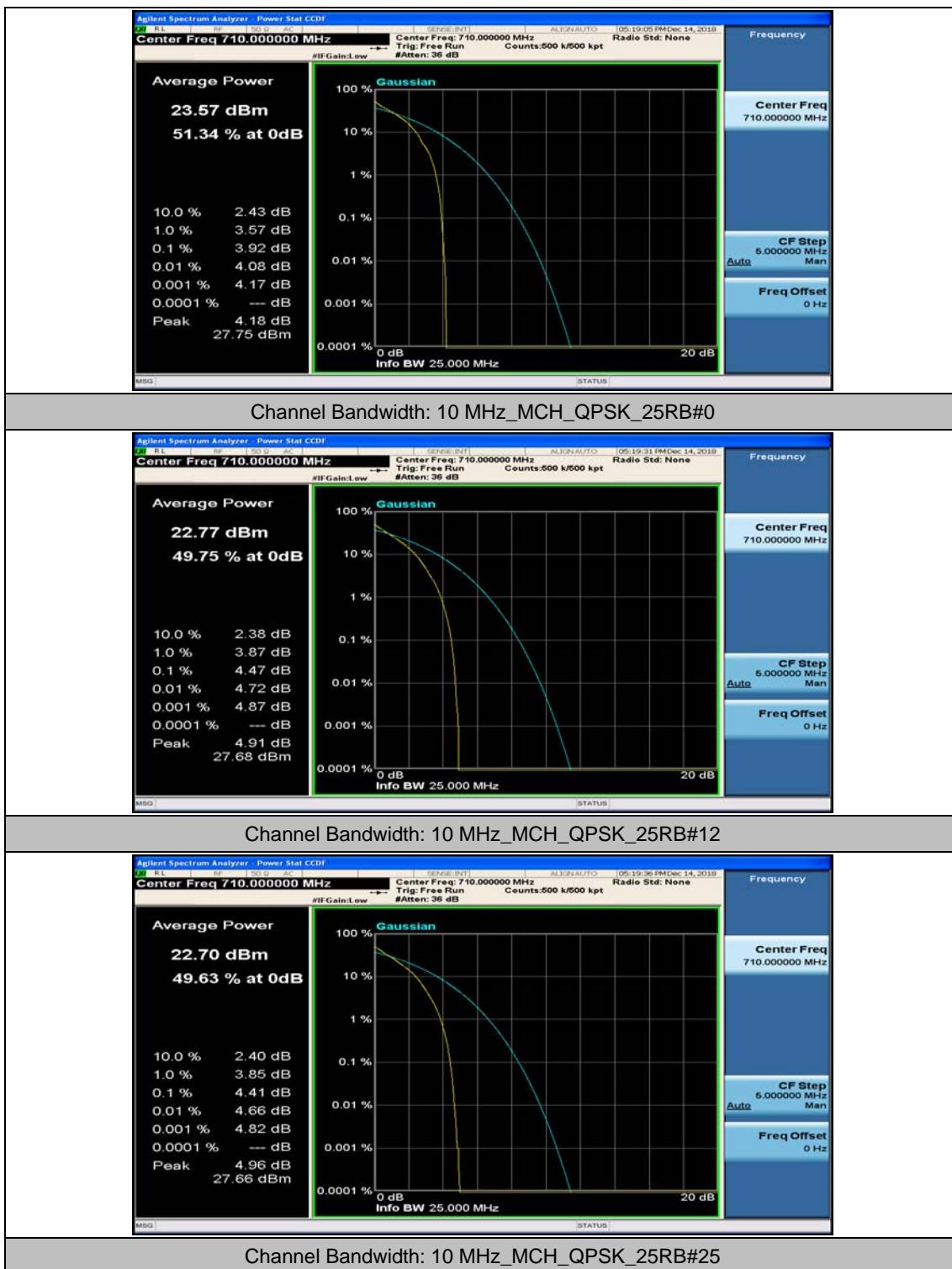
## Channel Bandwidth: 10 MHz

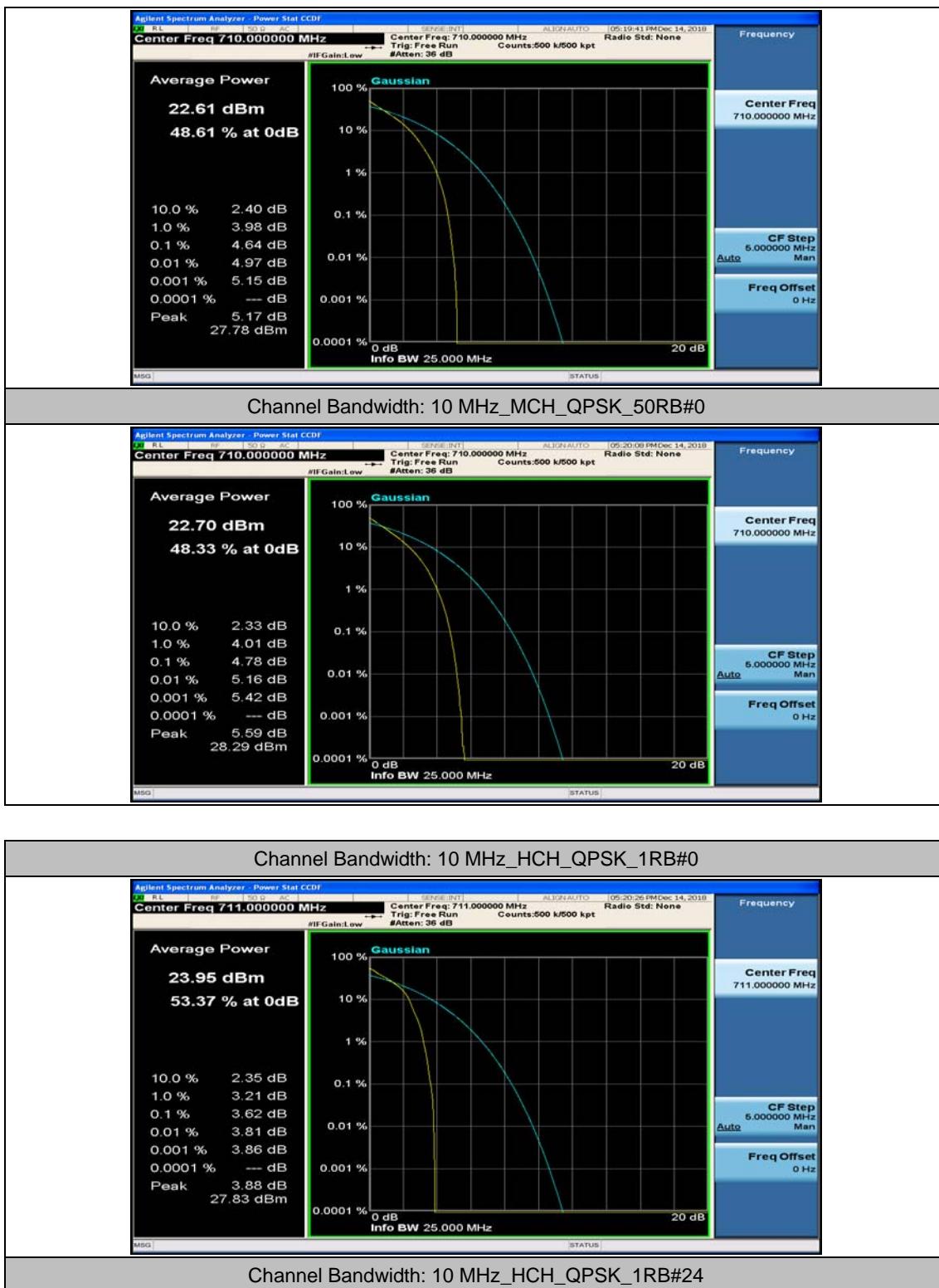


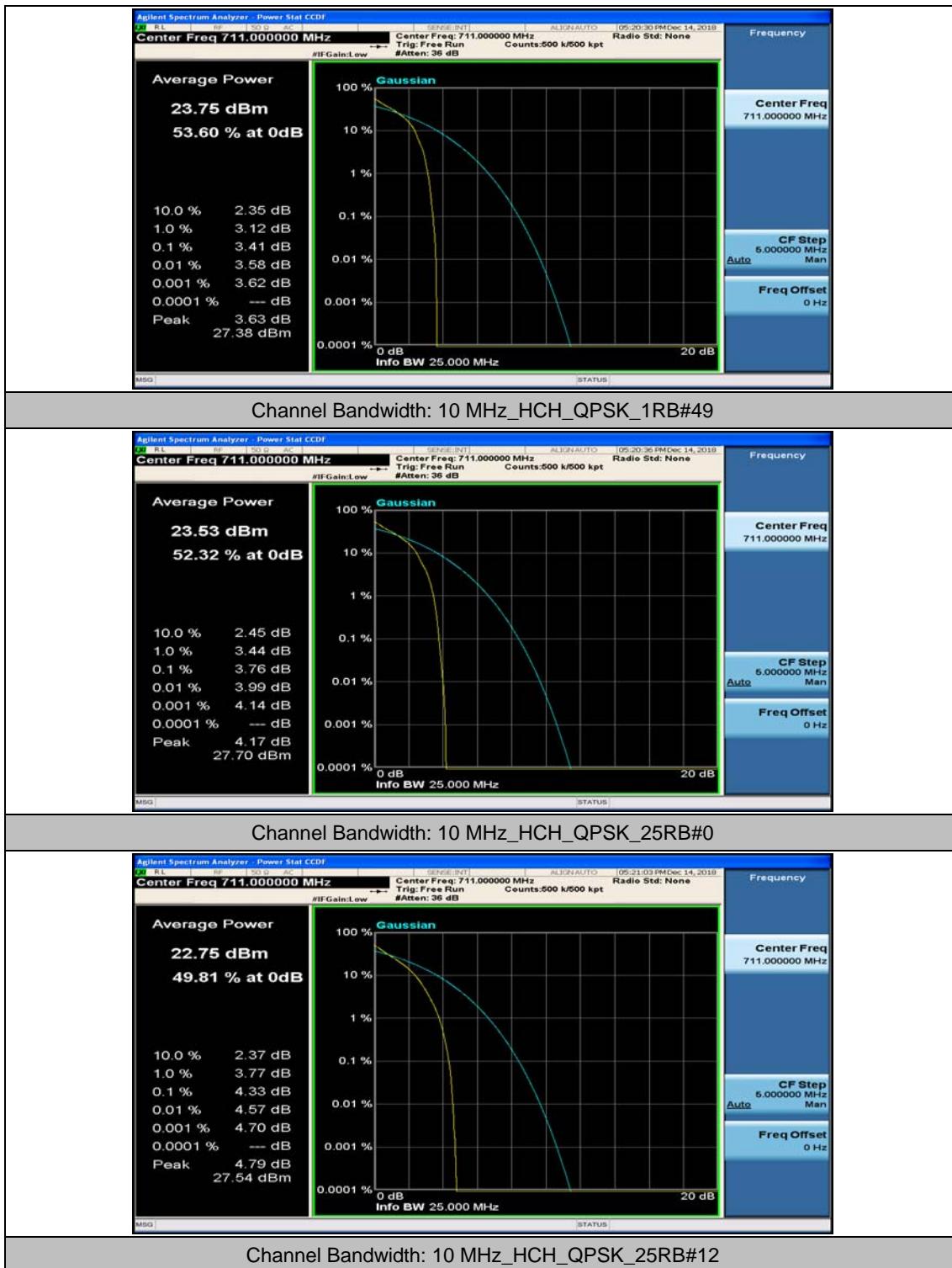


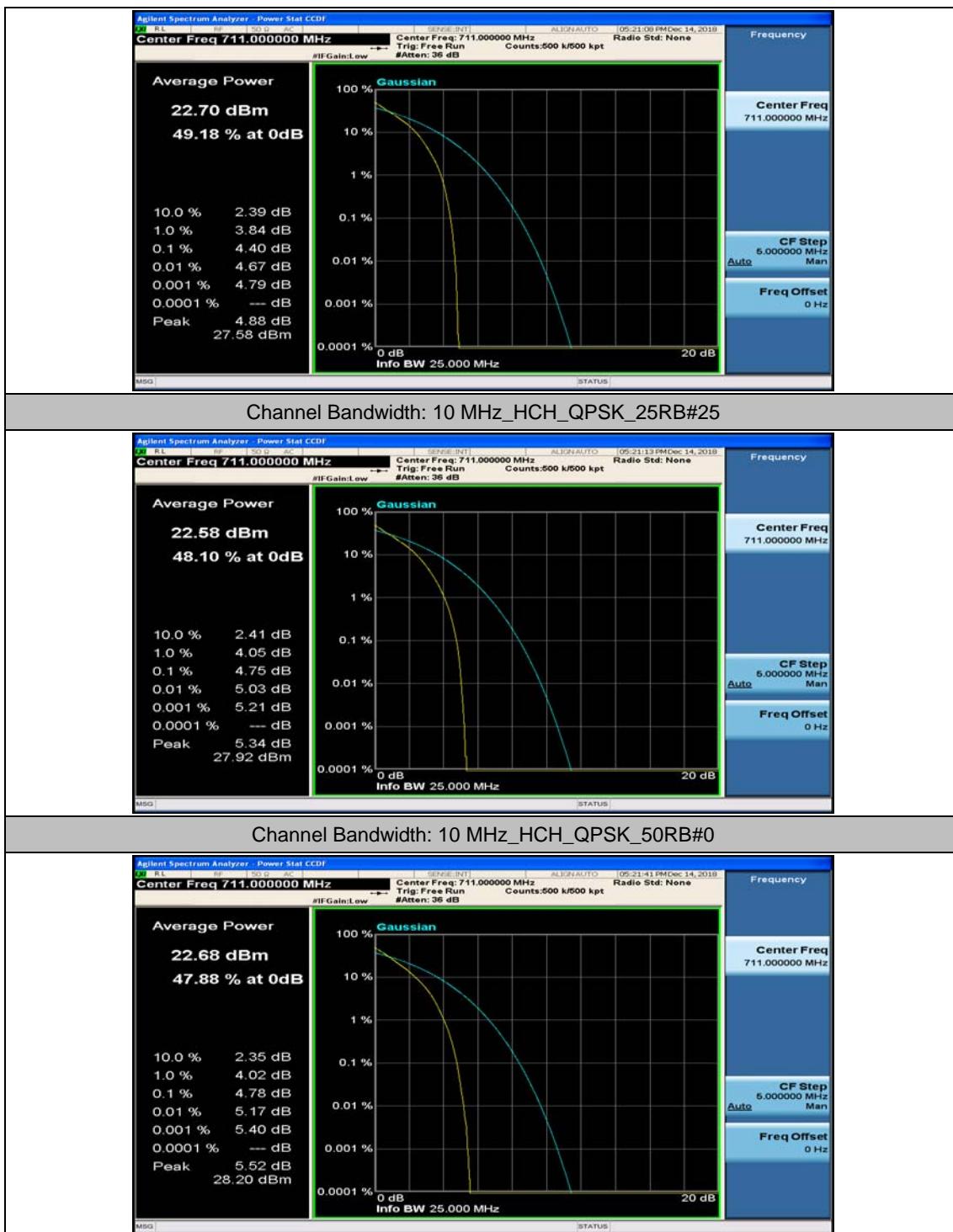


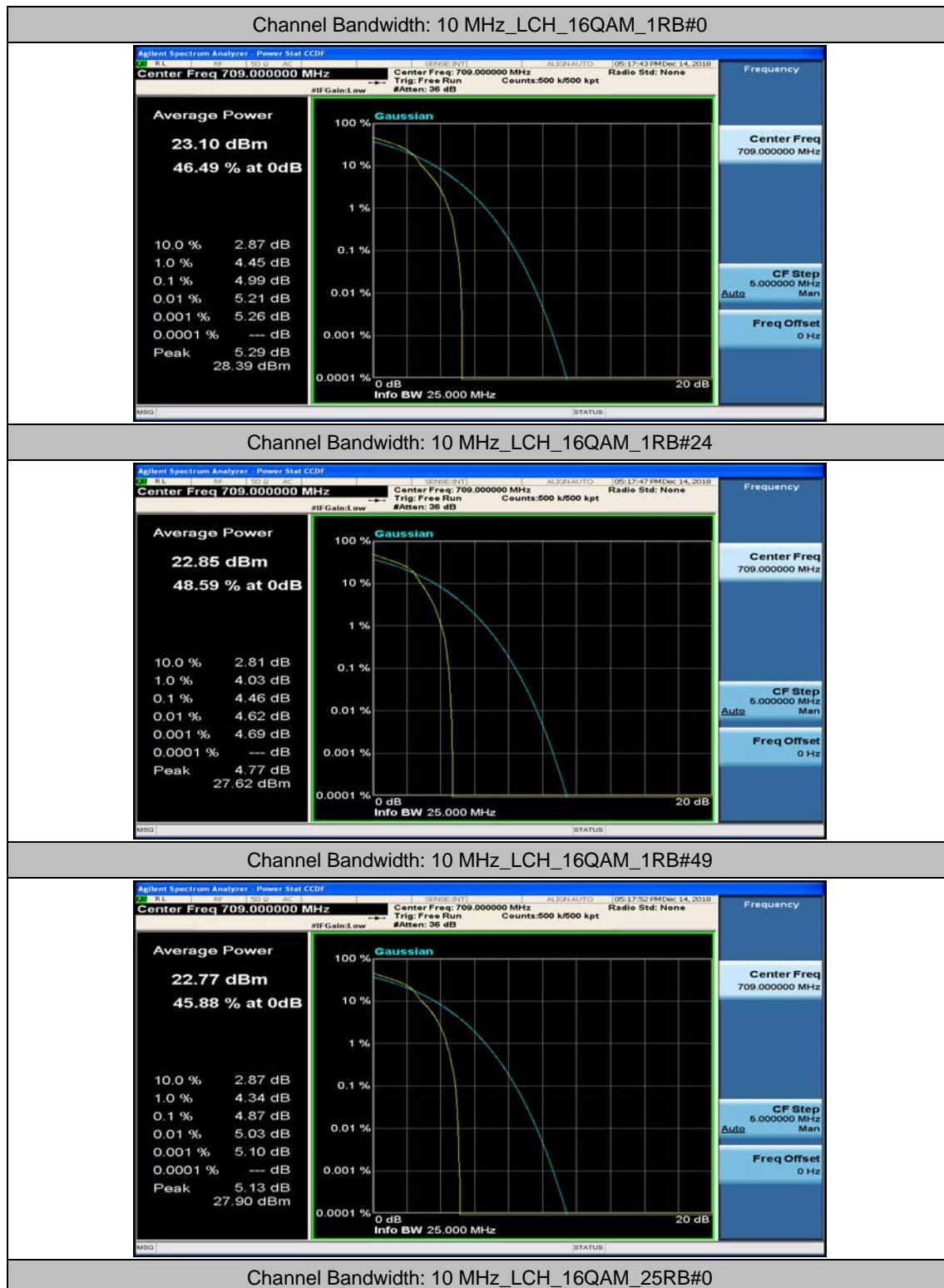
**Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#49**

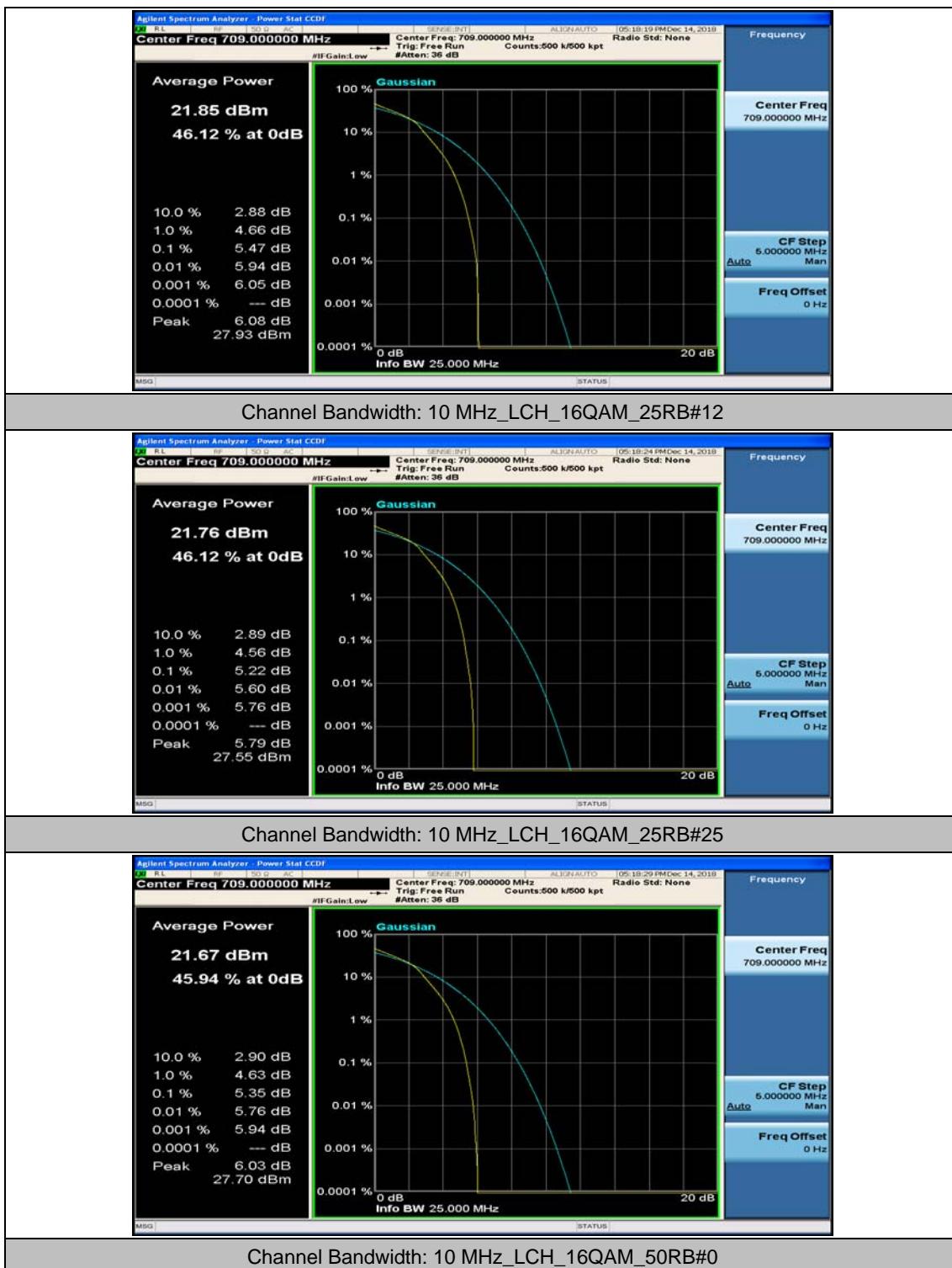


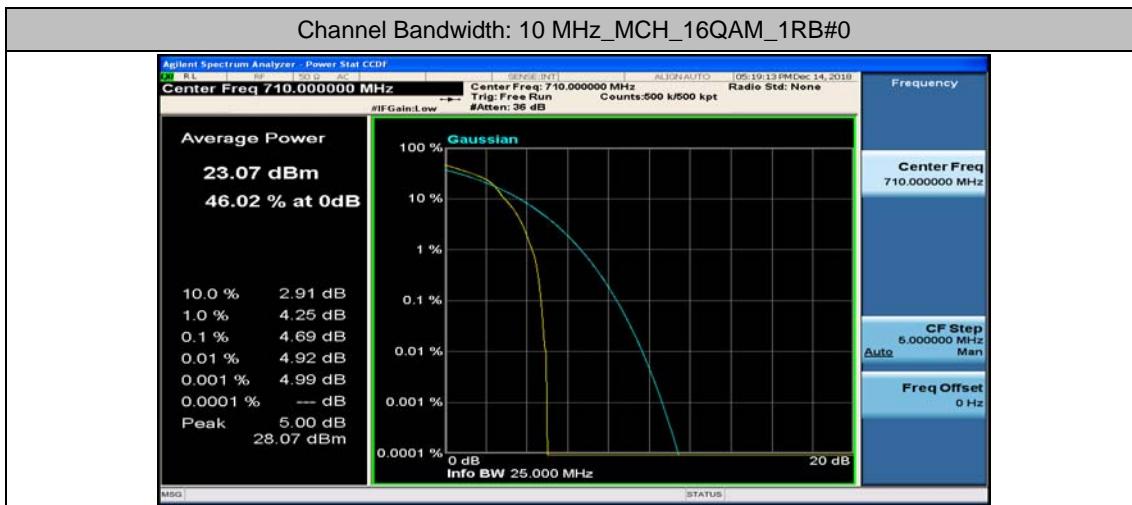
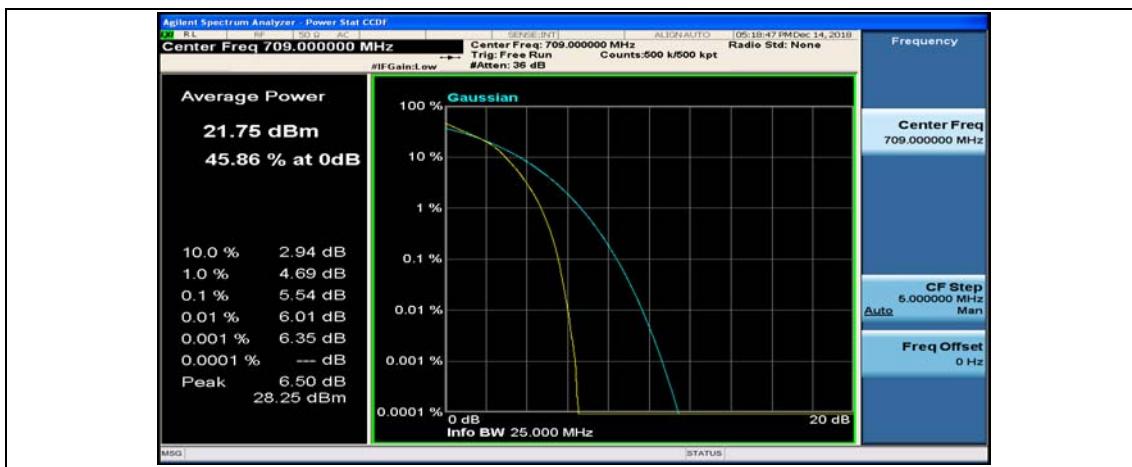




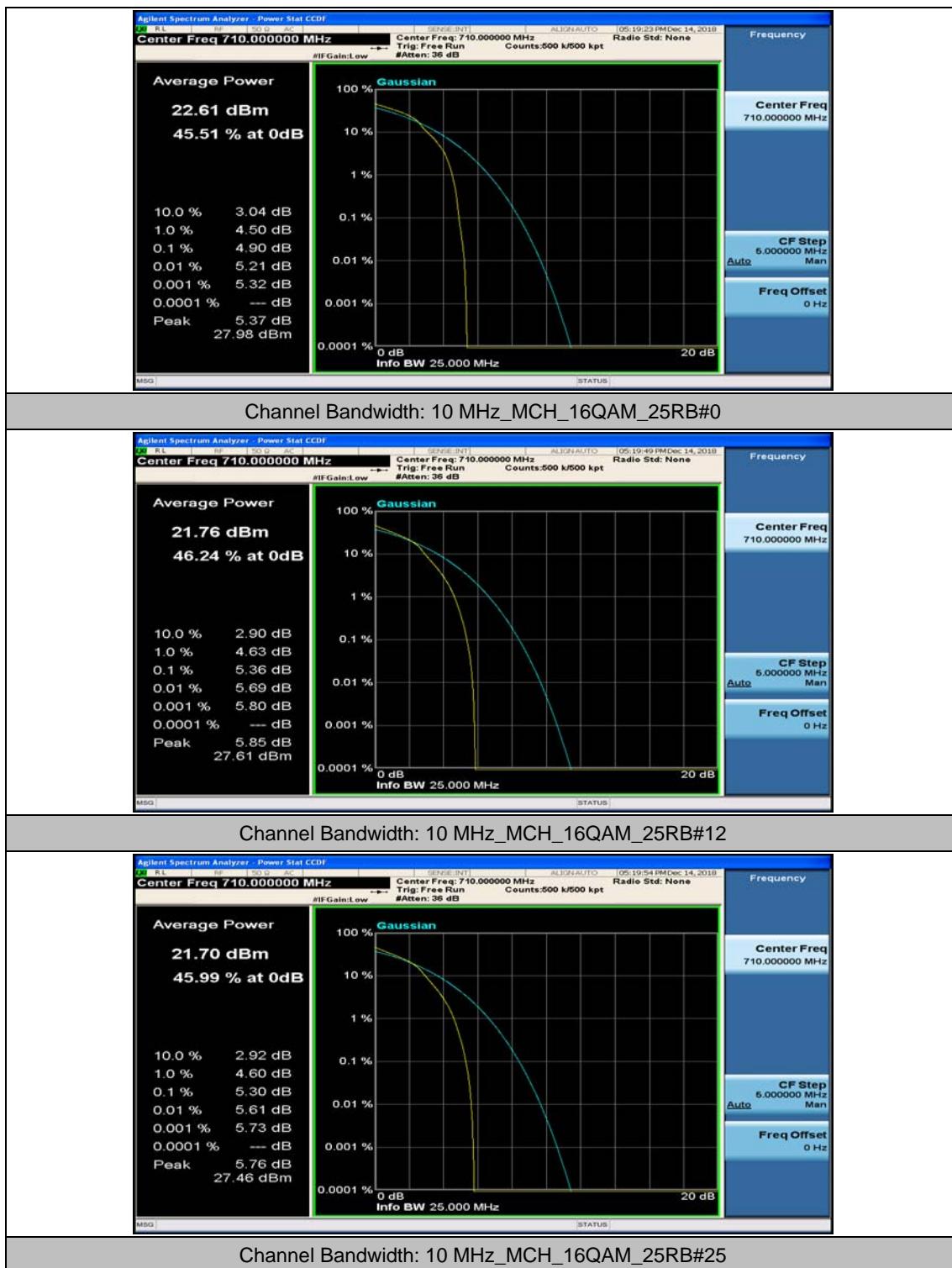


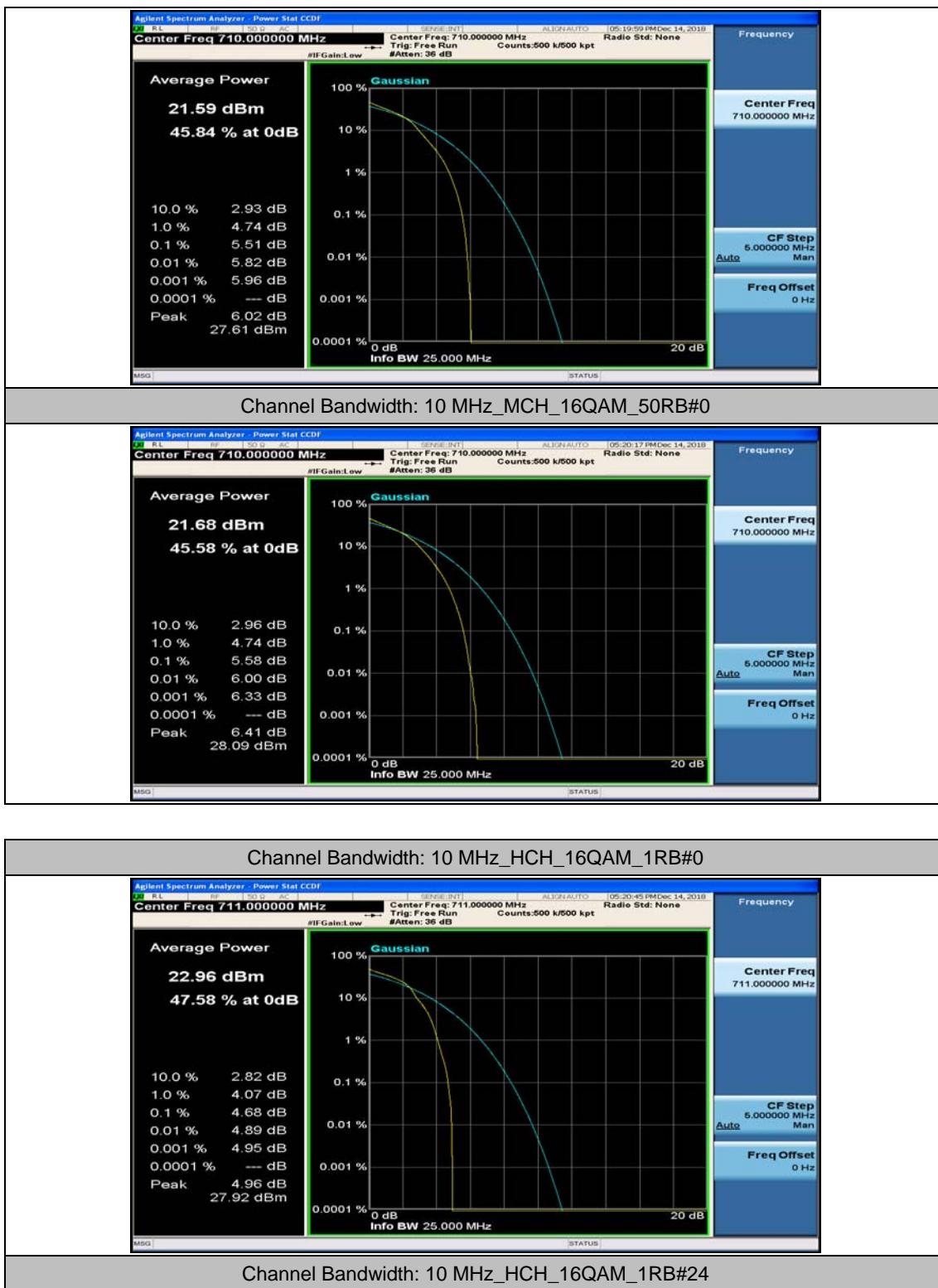


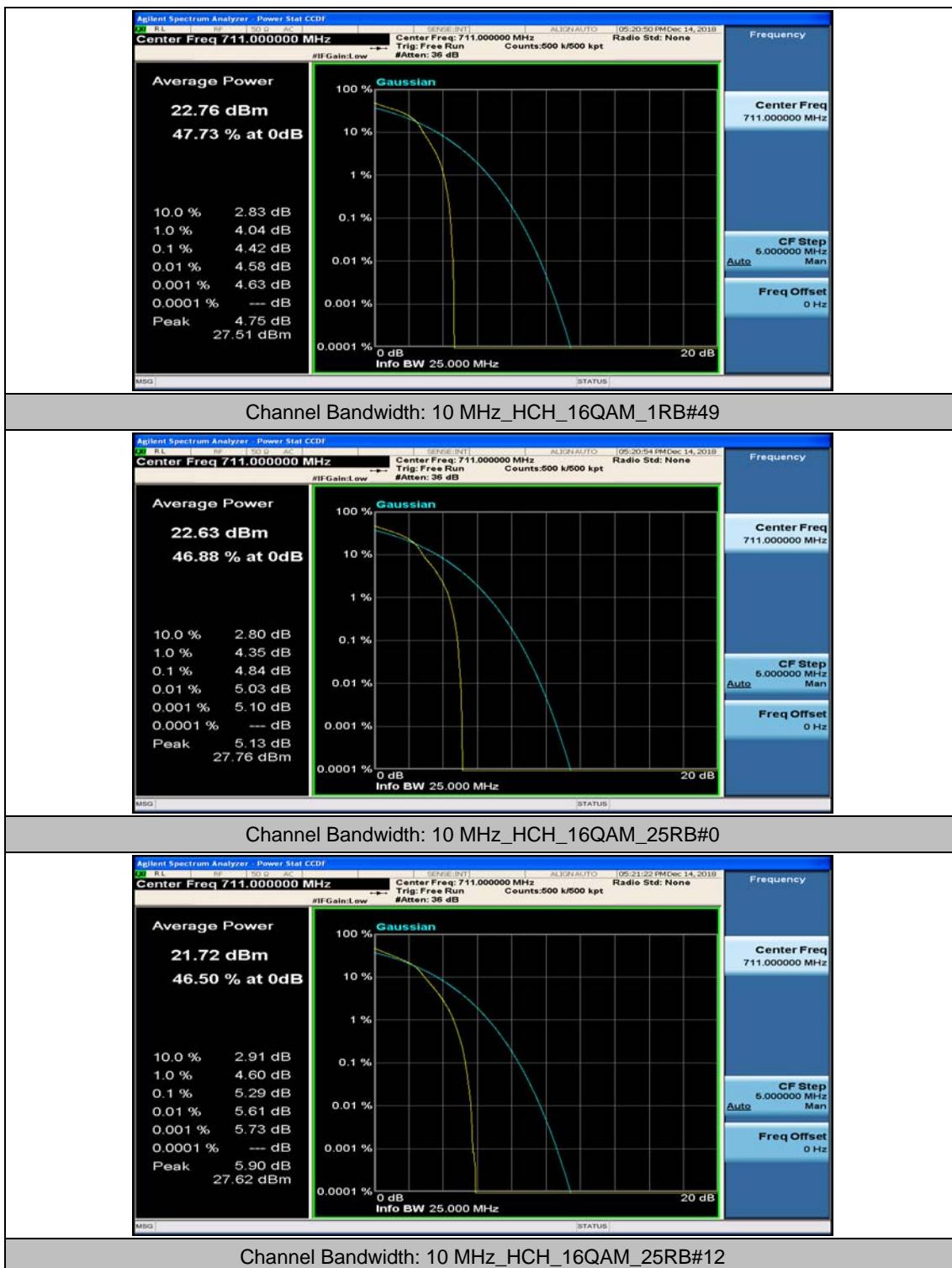


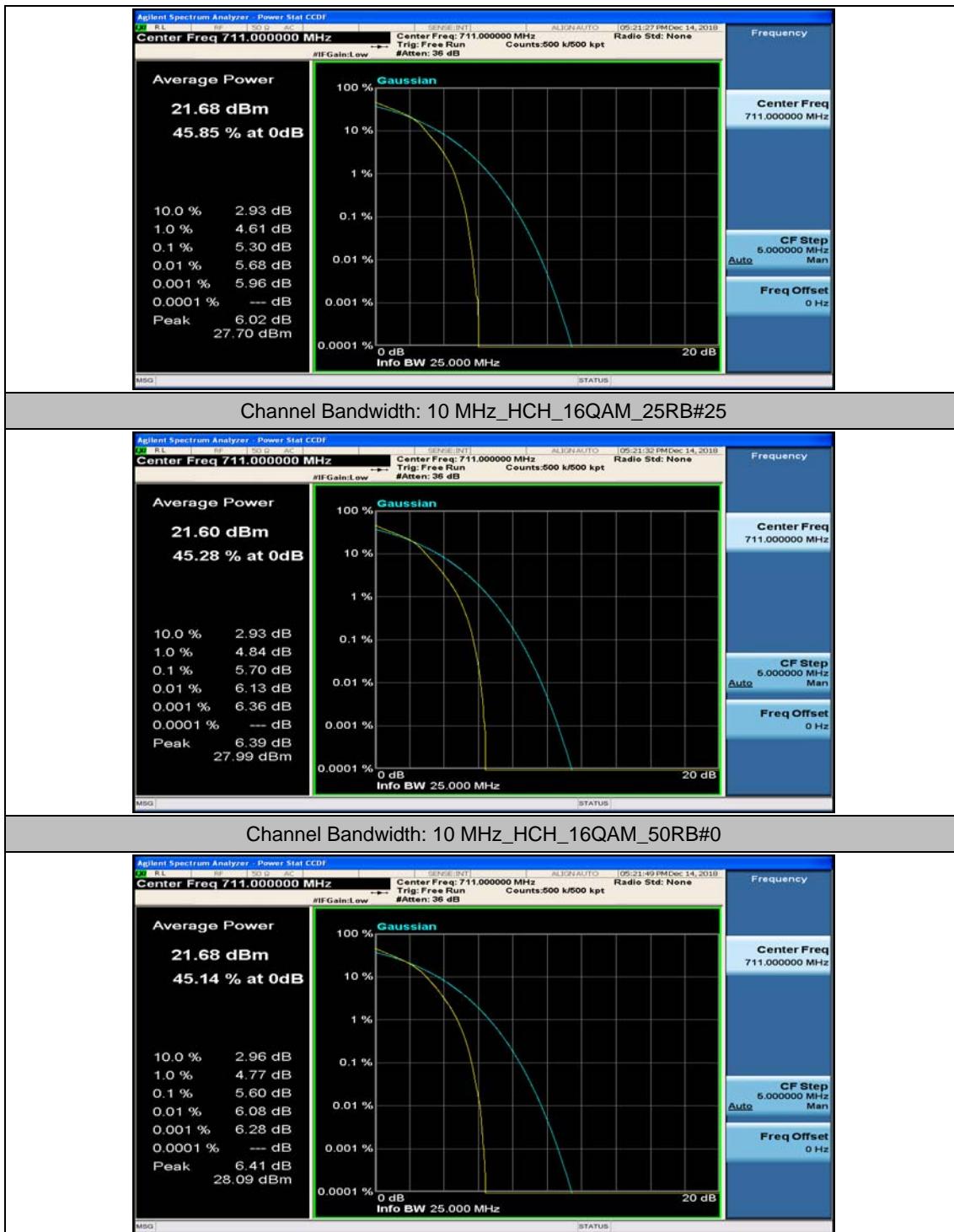


**Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#49**









## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

#### Channel Bandwidth: 5 MHz

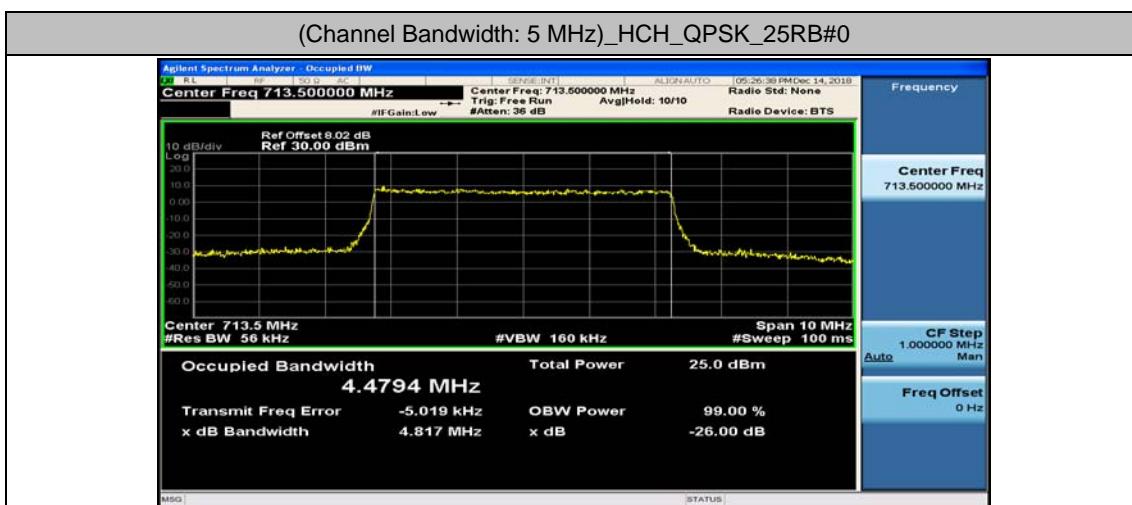
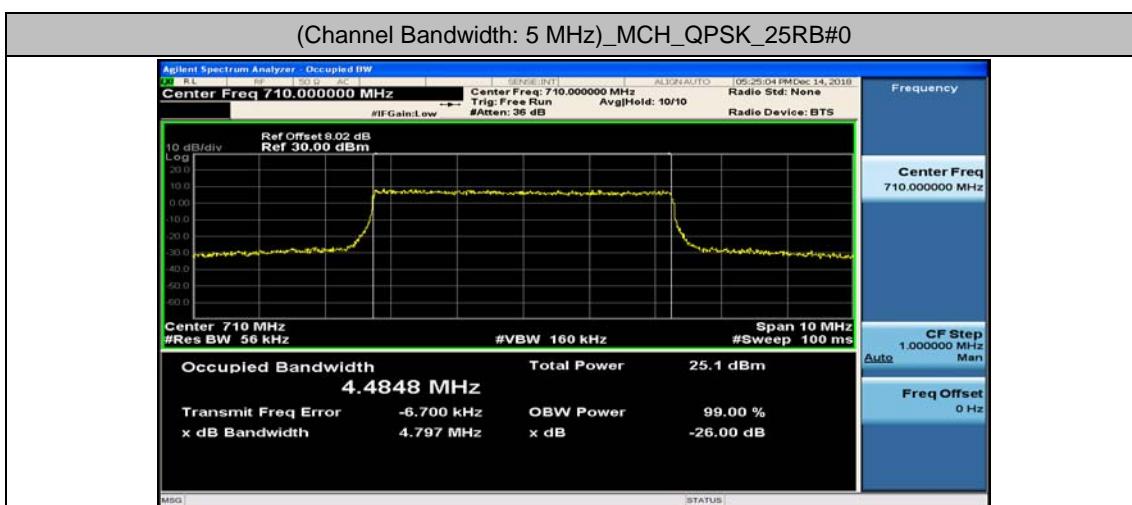
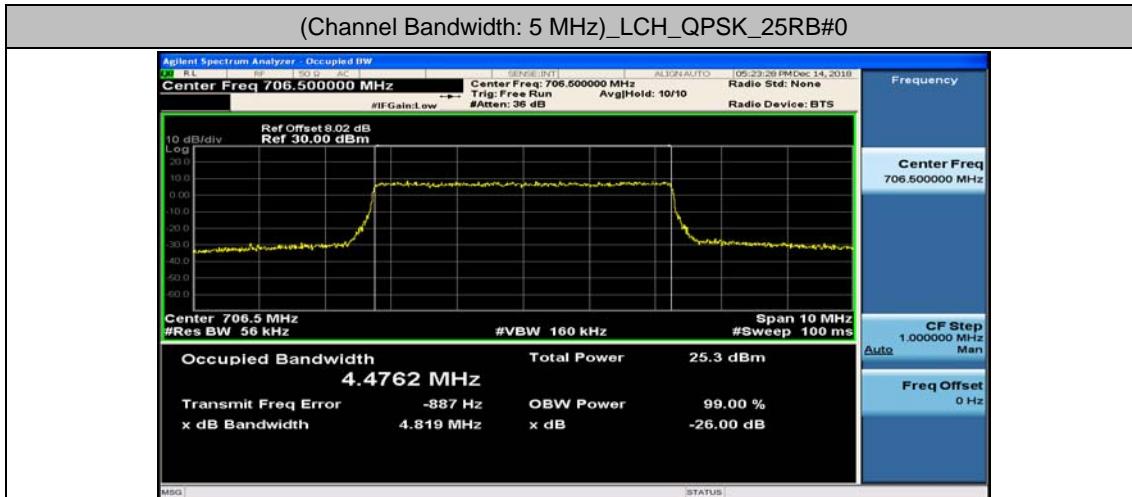
| Channel Bandwidth: 5 MHz |         |                  |        |                             |                         |         |
|--------------------------|---------|------------------|--------|-----------------------------|-------------------------|---------|
| Modulation               | Channel | RB Configuration |        | Occupied Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) | Verdict |
|                          |         | Size             | Offset |                             |                         |         |
| QPSK                     | LCH     | 25               | 0      | 4.4762                      | 4.819                   | PASS    |
|                          | MCH     | 25               | 0      | 4.4848                      | 4.797                   | PASS    |
|                          | HCH     | 25               | 0      | 4.4794                      | 4.817                   | PASS    |
| 16QAM                    | LCH     | 25               | 0      | 4.4813                      | 4.819                   | PASS    |
|                          | MCH     | 25               | 0      | 4.4772                      | 4.823                   | PASS    |
|                          | HCH     | 25               | 0      | 4.4820                      | 4.870                   | PASS    |

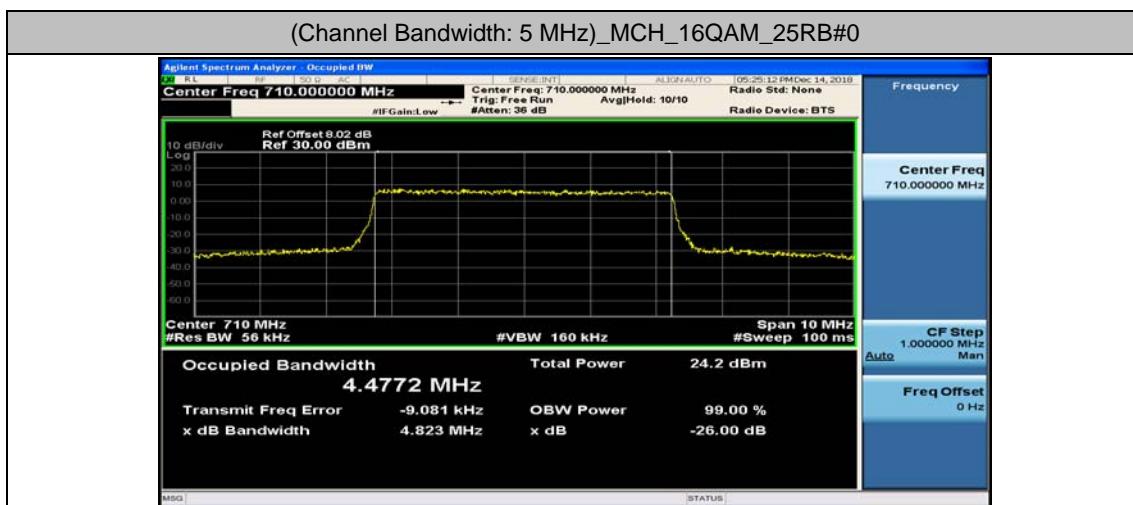
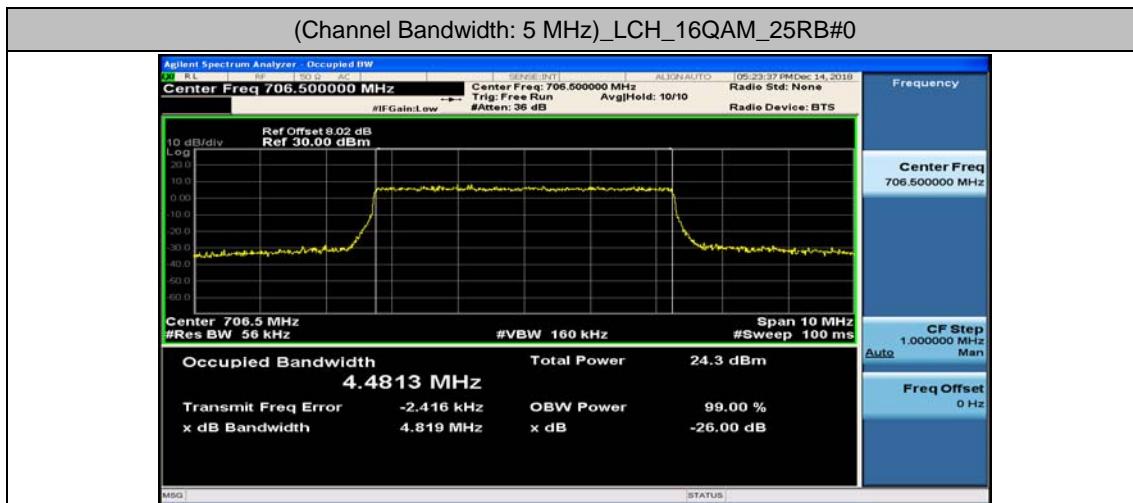
#### Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz |         |                  |        |                             |                         |         |
|---------------------------|---------|------------------|--------|-----------------------------|-------------------------|---------|
| Modulation                | Channel | RB Configuration |        | Occupied Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) | Verdict |
|                           |         | Size             | Offset |                             |                         |         |
| QPSK                      | LCH     | 50               | 0      | 8.9465                      | 9.443                   | PASS    |
|                           | MCH     | 50               | 0      | 8.9364                      | 9.405                   | PASS    |
|                           | HCH     | 50               | 0      | 8.9387                      | 9.415                   | PASS    |
| 16QAM                     | LCH     | 50               | 0      | 8.9291                      | 9.448                   | PASS    |
|                           | MCH     | 50               | 0      | 8.9378                      | 9.511                   | PASS    |
|                           | HCH     | 50               | 0      | 8.9238                      | 9.420                   | PASS    |

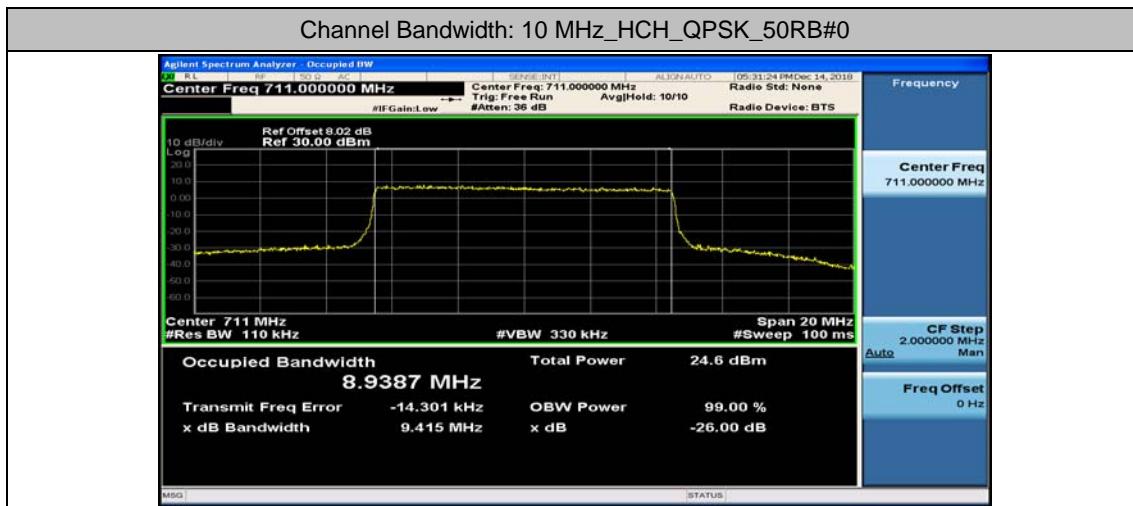
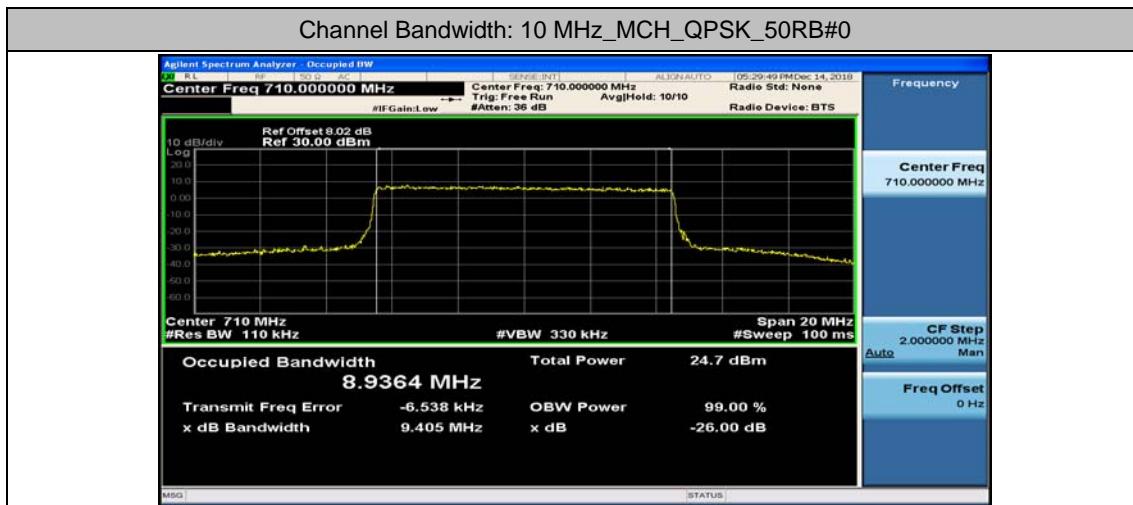
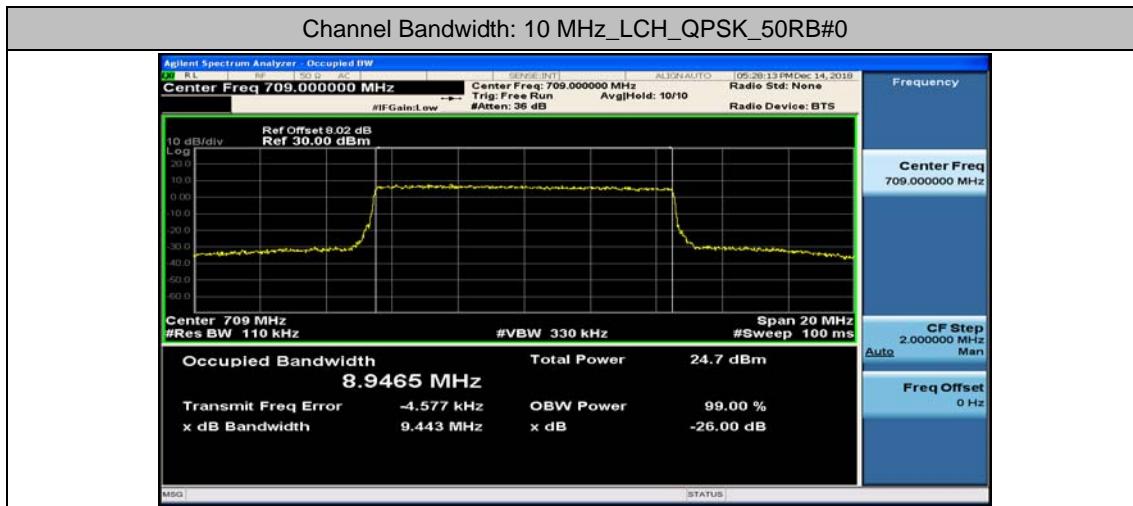
## Test Graphs

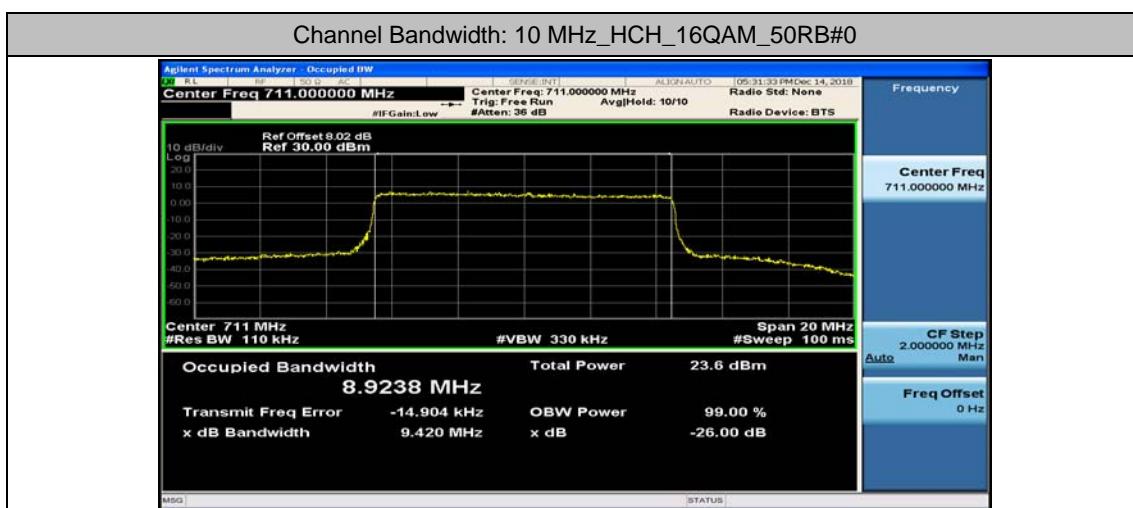
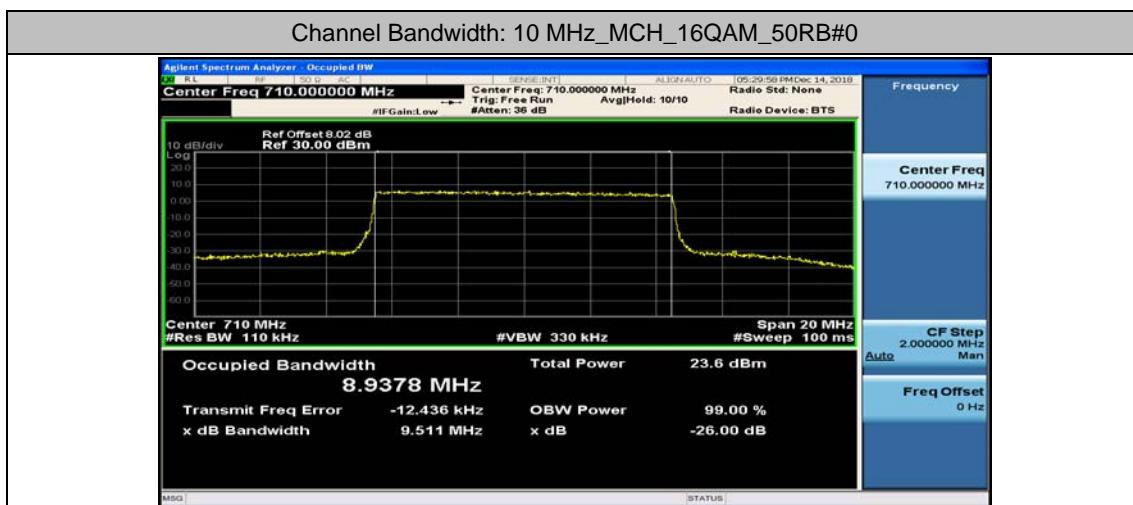
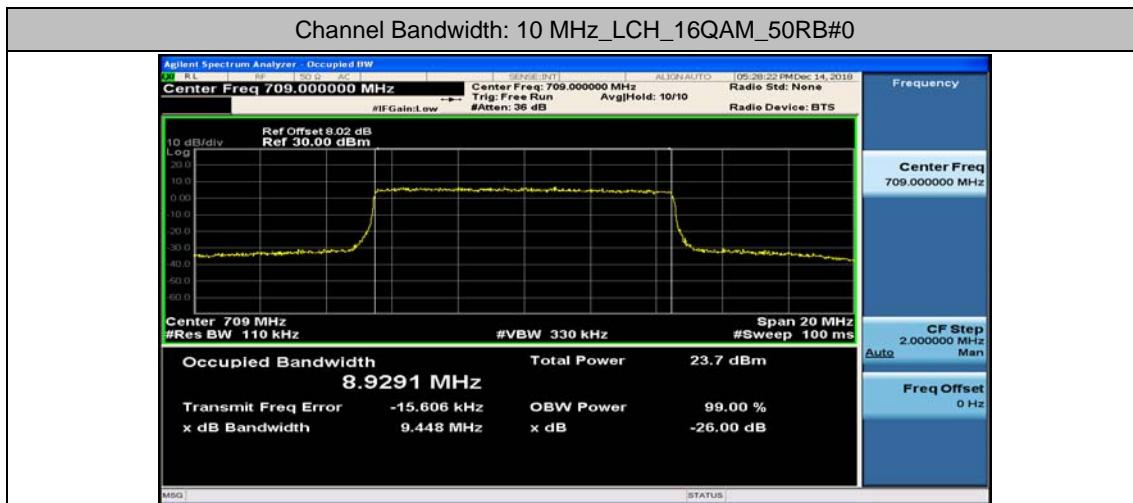
### Channel Bandwidth: 5 MHz





## Channel Bandwidth: 10 MHz

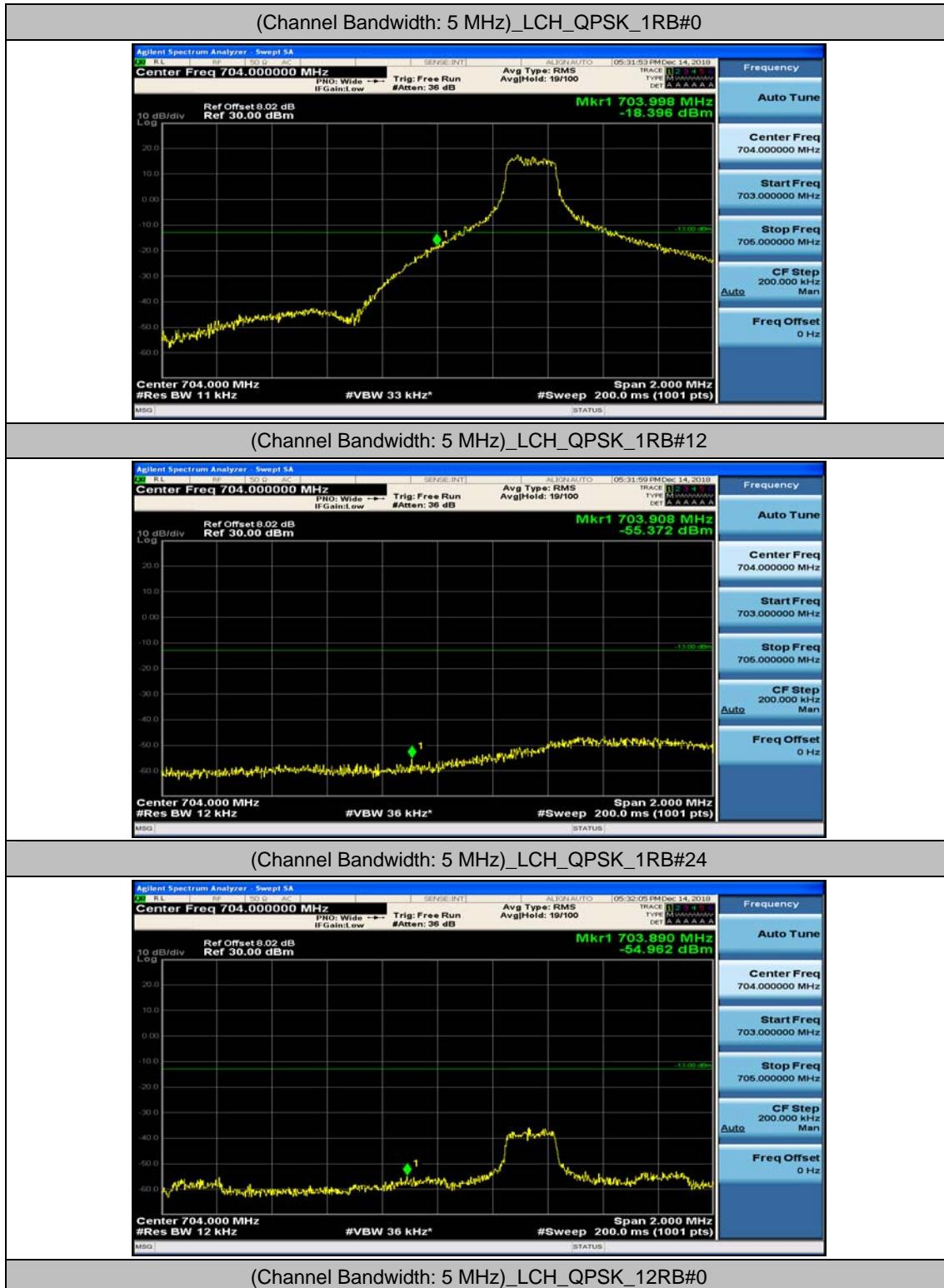


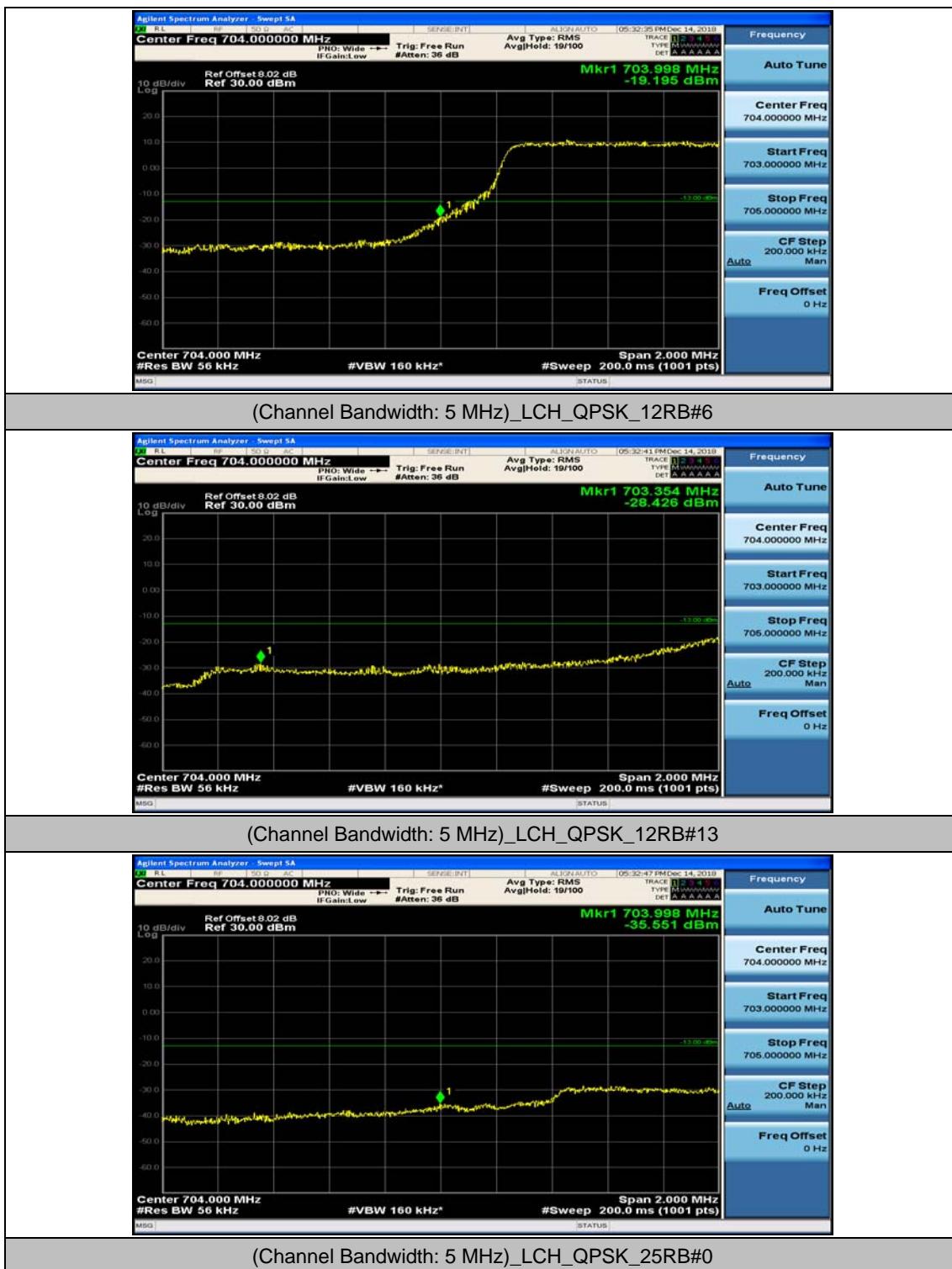


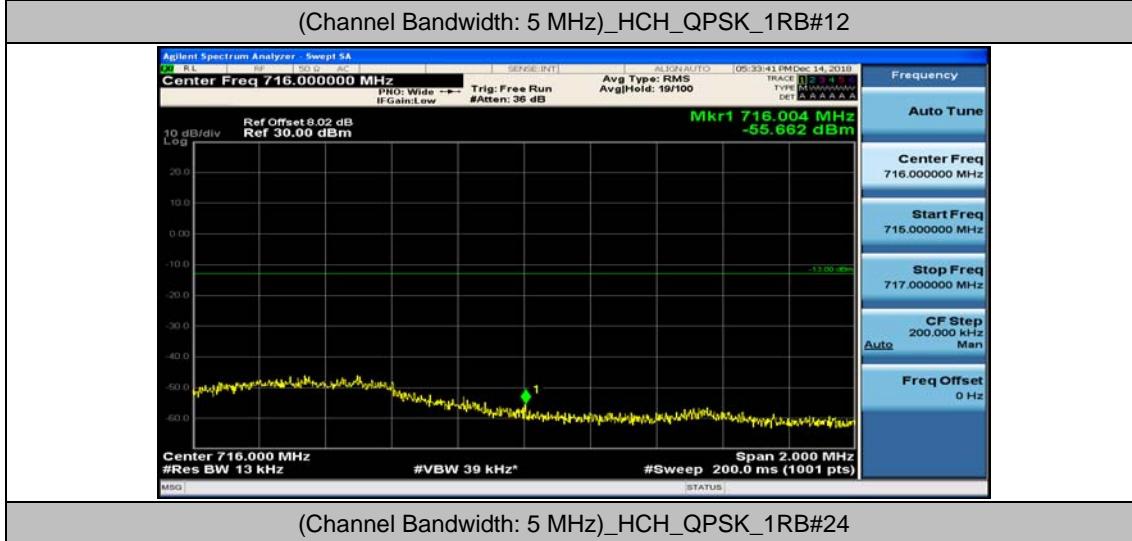
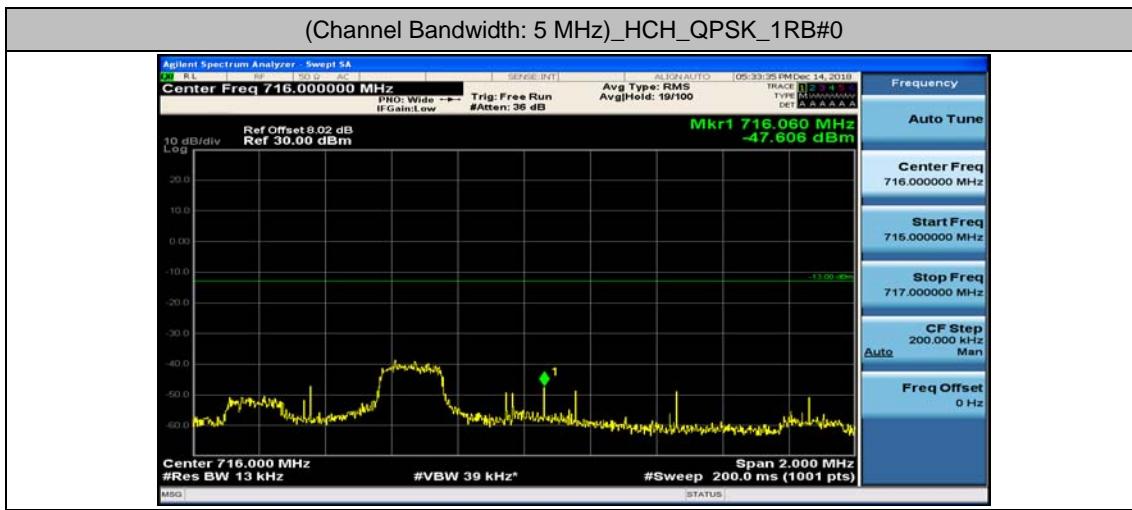
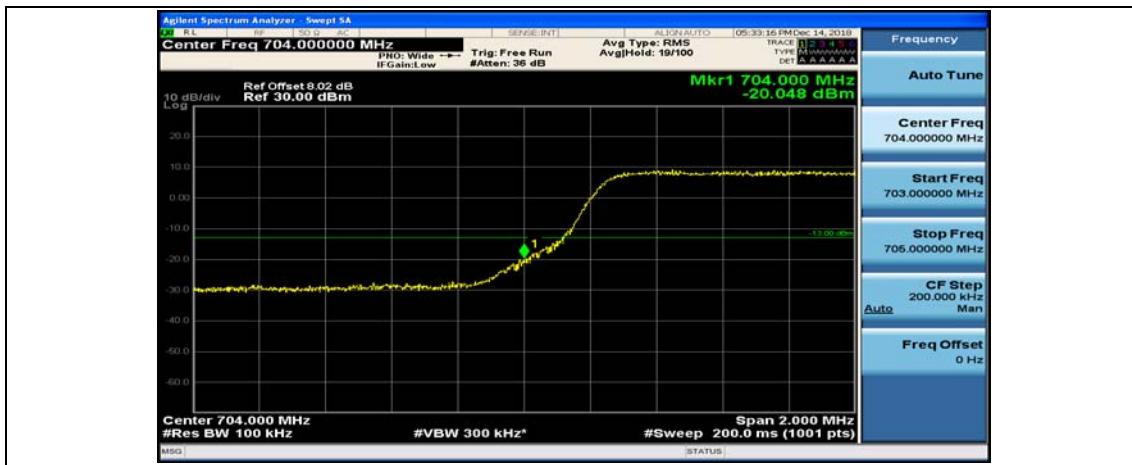
## Appendix D: Band Edge

### Test Graphs

#### Channel Bandwidth: 5 MHz







**(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#24**