

## Appendix A: Effective (Isotropic) Radiated Power Output Data

### Test Result

Channel Bandwidth: 5 MHz

| Channel Bandwidth: 5 MHz |         |                  |        |                     |             |         |
|--------------------------|---------|------------------|--------|---------------------|-------------|---------|
| Modulation               | Channel | RB Configuration |        | Average Power [dBm] | E.r.p [dBm] | Verdict |
|                          |         | Size             | Offset |                     |             |         |
| QPSK                     | LCH     | 1                | 0      | 23.07               | 22.97       | PASS    |
|                          |         | 1                | 12     | 23.00               | 22.90       | PASS    |
|                          |         | 1                | 24     | 23.09               | 22.99       | PASS    |
|                          |         | 12               | 0      | 23.17               | 23.07       | PASS    |
|                          |         | 12               | 6      | 23.16               | 23.06       | PASS    |
|                          |         | 12               | 13     | 23.15               | 23.05       | PASS    |
|                          |         | 25               | 0      | 23.12               | 23.02       | PASS    |
|                          | MCH     | 1                | 0      | 23.20               | 23.10       | PASS    |
|                          |         | 1                | 12     | 23.22               | 23.12       | PASS    |
|                          |         | 1                | 24     | 23.22               | 23.12       | PASS    |
|                          |         | 12               | 0      | 23.05               | 22.95       | PASS    |
|                          |         | 12               | 6      | 23.14               | 23.04       | PASS    |
|                          |         | 12               | 13     | 23.16               | 23.06       | PASS    |
|                          |         | 25               | 0      | 23.16               | 23.06       | PASS    |
|                          | HCH     | 1                | 0      | 23.15               | 23.05       | PASS    |
|                          |         | 1                | 12     | 23.12               | 23.02       | PASS    |
|                          |         | 1                | 24     | 23.20               | 23.10       | PASS    |
|                          |         | 12               | 0      | 23.12               | 23.02       | PASS    |
|                          |         | 12               | 6      | 23.12               | 23.02       | PASS    |
|                          |         | 12               | 13     | 23.19               | 23.09       | PASS    |
|                          |         | 25               | 0      | 23.15               | 23.05       | PASS    |
| 16QAM                    | LCH     | 1                | 0      | 21.87               | 21.77       | PASS    |
|                          |         | 1                | 12     | 22.02               | 21.92       | PASS    |
|                          |         | 1                | 24     | 22.04               | 21.94       | PASS    |
|                          |         | 12               | 0      | 21.27               | 21.17       | PASS    |
|                          |         | 12               | 6      | 21.18               | 21.08       | PASS    |
|                          |         | 12               | 13     | 21.14               | 21.04       | PASS    |
|                          |         | 25               | 0      | 21.07               | 20.97       | PASS    |
|                          | MCH     | 1                | 0      | 22.02               | 21.92       | PASS    |
|                          |         | 1                | 12     | 22.12               | 22.02       | PASS    |
|                          |         | 1                | 24     | 21.97               | 21.87       | PASS    |
|                          |         | 12               | 0      | 21.17               | 21.07       | PASS    |

|    |     |       |       |       |       |      |
|----|-----|-------|-------|-------|-------|------|
|    |     | 12    | 6     | 21.21 | 21.11 | PASS |
|    |     | 12    | 13    | 21.22 | 21.12 | PASS |
|    |     | 25    | 0     | 21.26 | 21.16 | PASS |
|    | HCH | 1     | 0     | 21.61 | 21.51 | PASS |
|    |     | 1     | 12    | 21.54 | 21.44 | PASS |
|    |     | 1     | 24    | 21.58 | 21.48 | PASS |
|    |     | 12    | 0     | 21.16 | 21.06 | PASS |
|    |     | 12    | 6     | 21.18 | 21.08 | PASS |
|    |     | 12    | 13    | 21.38 | 21.28 | PASS |
| 25 | 0   | 21.44 | 21.34 | PASS  |       |      |

## Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz |         |                  |        |                     |             |         |
|---------------------------|---------|------------------|--------|---------------------|-------------|---------|
| Modulation                | Channel | RB Configuration |        | Average Power [dBm] | E.r.p [dBm] | Verdict |
|                           |         | Size             | Offset |                     |             |         |
| QPSK                      | LCH     | 1                | 0      | 23.06               | 22.96       | PASS    |
|                           |         | 1                | 24     | 23.07               | 22.97       | PASS    |
|                           |         | 1                | 49     | 23.08               | 22.98       | PASS    |
|                           |         | 25               | 0      | 23.14               | 23.04       | PASS    |
|                           |         | 25               | 12     | 23.12               | 23.02       | PASS    |
|                           |         | 25               | 25     | 23.19               | 23.09       | PASS    |
|                           |         | 50               | 0      | 23.14               | 23.04       | PASS    |
|                           | MCH     | 1                | 0      | 23.30               | 23.20       | PASS    |
|                           |         | 1                | 24     | 23.29               | 23.19       | PASS    |
|                           |         | 1                | 49     | 23.26               | 23.16       | PASS    |
|                           |         | 25               | 0      | 23.12               | 23.02       | PASS    |
|                           |         | 25               | 12     | 23.12               | 23.02       | PASS    |
|                           |         | 25               | 25     | 23.16               | 23.06       | PASS    |
|                           |         | 50               | 0      | 23.02               | 22.92       | PASS    |
|                           | HCH     | 1                | 0      | 23.11               | 23.01       | PASS    |
|                           |         | 1                | 24     | 23.18               | 23.08       | PASS    |
|                           |         | 1                | 49     | 23.22               | 23.12       | PASS    |
|                           |         | 25               | 0      | 23.12               | 23.02       | PASS    |
|                           |         | 25               | 12     | 23.12               | 23.02       | PASS    |
|                           |         | 25               | 25     | 23.14               | 23.04       | PASS    |
|                           |         | 50               | 0      | 23.22               | 23.12       | PASS    |
| 16QAM                     | LCH     | 1                | 0      | 22.02               | 21.92       | PASS    |
|                           |         | 1                | 24     | 22.02               | 21.92       | PASS    |
|                           |         | 1                | 49     | 22.14               | 22.04       | PASS    |
|                           |         | 25               | 0      | 21.18               | 21.08       | PASS    |

|    |     |    |       |       |       |      |
|----|-----|----|-------|-------|-------|------|
|    |     | 25 | 12    | 21.16 | 21.06 | PASS |
|    |     | 25 | 25    | 21.04 | 20.94 | PASS |
|    |     | 50 | 0     | 21.17 | 21.07 | PASS |
|    | MCH | 1  | 0     | 21.93 | 21.83 | PASS |
|    |     | 1  | 24    | 21.93 | 21.83 | PASS |
|    |     | 1  | 49    | 21.87 | 21.77 | PASS |
|    |     | 25 | 0     | 21.40 | 21.30 | PASS |
|    |     | 25 | 12    | 21.34 | 21.24 | PASS |
|    |     | 25 | 25    | 21.25 | 21.15 | PASS |
|    |     | 50 | 0     | 21.26 | 21.16 | PASS |
|    | HCH | 1  | 0     | 22.11 | 22.01 | PASS |
|    |     | 1  | 24    | 22.18 | 22.08 | PASS |
|    |     | 1  | 49    | 22.09 | 21.99 | PASS |
|    |     | 25 | 0     | 21.33 | 21.23 | PASS |
|    |     | 25 | 12    | 21.28 | 21.18 | PASS |
| 25 |     | 25 | 21.56 | 21.46 | PASS  |      |
| 50 |     | 0  | 21.26 | 21.16 | 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      | 5.75                          | <13           | PASS    |
|                          |         | 1                | 12     | 5.56                          | <13           | PASS    |
|                          |         | 1                | 24     | 5.61                          | <13           | PASS    |
|                          |         | 12               | 0      | 5.63                          | <13           | PASS    |
|                          |         | 12               | 6      | 5.75                          | <13           | PASS    |
|                          |         | 12               | 13     | 5.56                          | <13           | PASS    |
|                          |         | 25               | 0      | 5.54                          | <13           | PASS    |
|                          | MCH     | 1                | 0      | 5.37                          | <13           | PASS    |
|                          |         | 1                | 12     | 5.23                          | <13           | PASS    |
|                          |         | 1                | 24     | 5.13                          | <13           | PASS    |
|                          |         | 12               | 0      | 5.54                          | <13           | PASS    |
|                          |         | 12               | 6      | 5.46                          | <13           | PASS    |
|                          |         | 12               | 13     | 5.32                          | <13           | PASS    |
|                          |         | 25               | 0      | 5.44                          | <13           | PASS    |
|                          | HCH     | 1                | 0      | 5.56                          | <13           | PASS    |
|                          |         | 1                | 12     | 5.35                          | <13           | PASS    |
|                          |         | 1                | 24     | 5.18                          | <13           | PASS    |
|                          |         | 12               | 0      | 5.29                          | <13           | PASS    |
|                          |         | 12               | 6      | 5.24                          | <13           | PASS    |
|                          |         | 12               | 13     | 5.1                           | <13           | PASS    |
|                          |         | 25               | 0      | 5.28                          | <13           | PASS    |
| 16QAM                    | LCH     | 1                | 0      | 6.37                          | <13           | PASS    |
|                          |         | 1                | 12     | 6.33                          | <13           | PASS    |
|                          |         | 1                | 24     | 6.16                          | <13           | PASS    |
|                          |         | 12               | 0      | 6.52                          | <13           | PASS    |
|                          |         | 12               | 6      | 6.52                          | <13           | PASS    |
|                          |         | 12               | 13     | 6.48                          | <13           | PASS    |
|                          |         | 25               | 0      | 6.53                          | <13           | PASS    |
|                          | MCH     | 1                | 0      | 5.99                          | <13           | PASS    |
|                          |         | 1                | 12     | 5.9                           | <13           | PASS    |

|  |     |    |    |      |     |      |
|--|-----|----|----|------|-----|------|
|  |     | 1  | 24 | 5.77 | <13 | PASS |
|  |     | 12 | 0  | 6.53 | <13 | PASS |
|  |     | 12 | 6  | 6.53 | <13 | PASS |
|  |     | 12 | 13 | 6.5  | <13 | PASS |
|  |     | 25 | 0  | 6.47 | <13 | PASS |
|  | HCH | 1  | 0  | 6.21 | <13 | PASS |
|  |     | 1  | 12 | 6.28 | <13 | PASS |
|  |     | 1  | 24 | 6.1  | <13 | PASS |
|  |     | 12 | 0  | 6.42 | <13 | PASS |
|  |     | 12 | 6  | 6.37 | <13 | PASS |
|  |     | 12 | 13 | 6.38 | <13 | PASS |
|  |     | 25 | 0  | 6.34 | <13 | PASS |

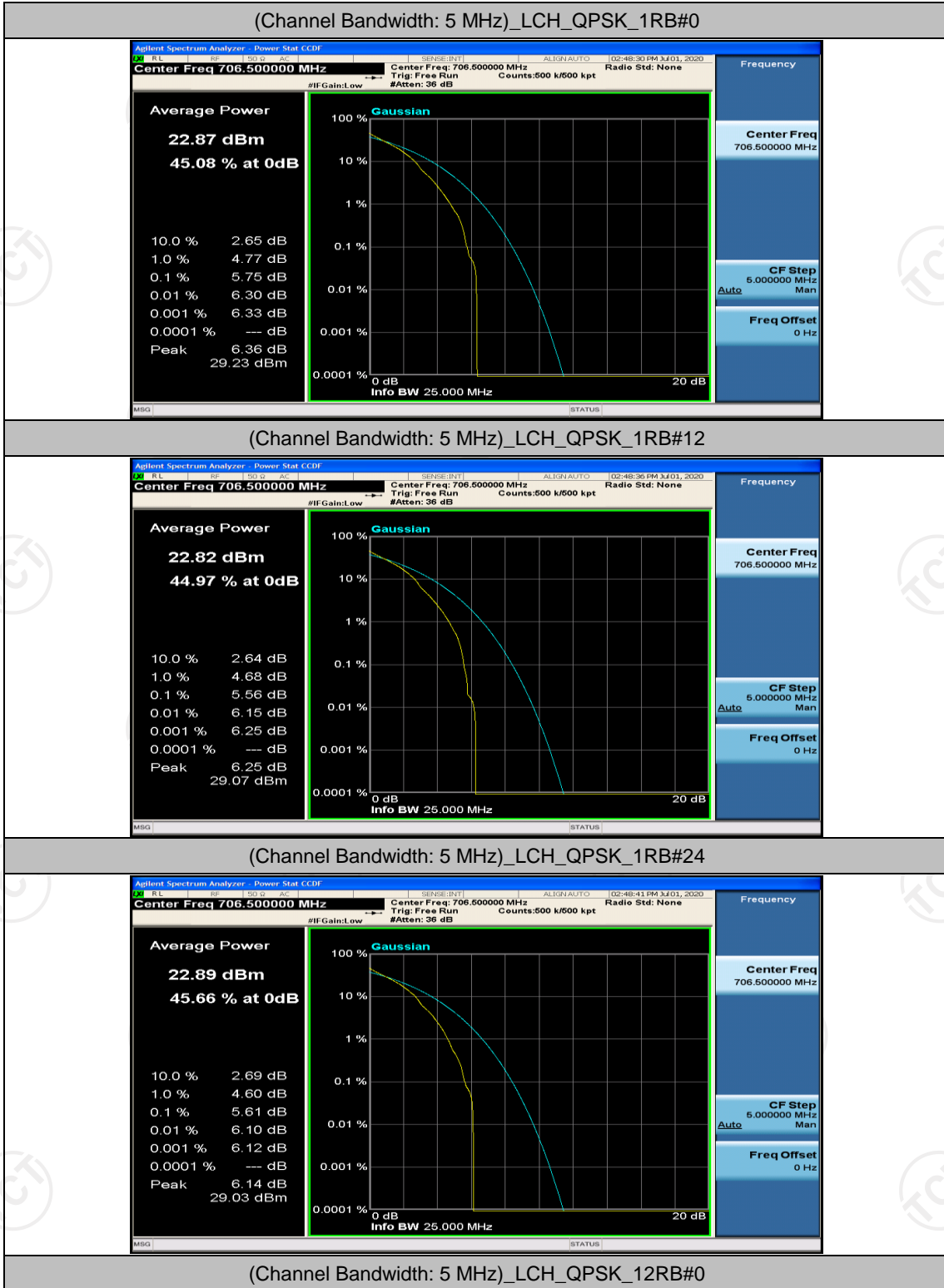
## Channel Bandwidth: 10 MHz

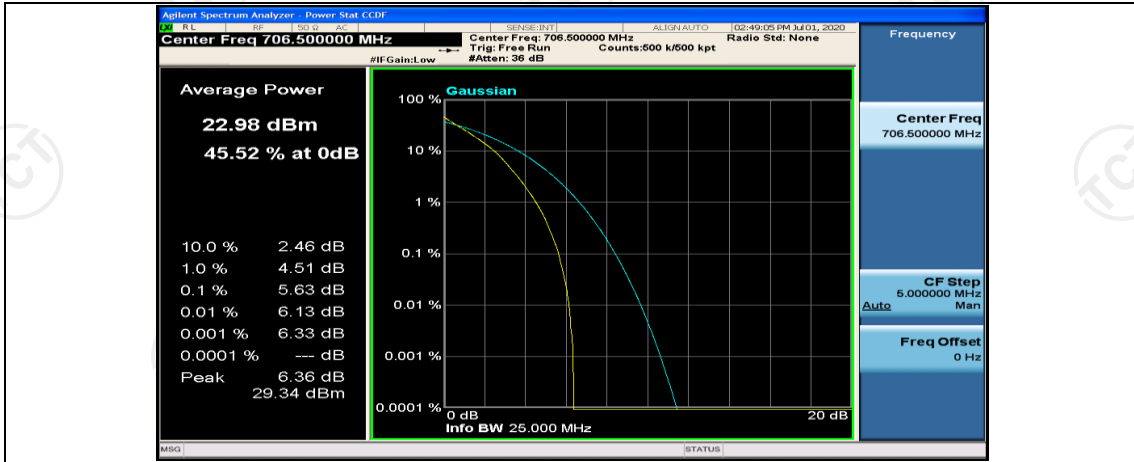
| Channel Bandwidth: 10 MHz |         |                  |        |                               |               |         |
|---------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation                | Channel | RB Configuration |        | Peak-to-Average Ratio<br>[dB] | Limit<br>[dB] | Verdict |
|                           |         | Size             | Offset |                               |               |         |
| QPSK                      | LCH     | 1                | 0      | 5.61                          | <13           | PASS    |
|                           |         | 1                | 24     | 5.34                          | <13           | PASS    |
|                           |         | 1                | 49     | 5.16                          | <13           | PASS    |
|                           |         | 25               | 0      | 5.61                          | <13           | PASS    |
|                           |         | 25               | 12     | 5.58                          | <13           | PASS    |
|                           |         | 25               | 25     | 5.31                          | <13           | PASS    |
|                           |         | 50               | 0      | 5.52                          | <13           | PASS    |
|                           | MCH     | 1                | 0      | 5.15                          | <13           | PASS    |
|                           |         | 1                | 24     | 5.15                          | <13           | PASS    |
|                           |         | 1                | 49     | 4.78                          | <13           | PASS    |
|                           |         | 25               | 0      | 5.55                          | <13           | PASS    |
|                           |         | 25               | 12     | 5.52                          | <13           | PASS    |
|                           |         | 25               | 25     | 5.26                          | <13           | PASS    |
|                           |         | 50               | 0      | 5.48                          | <13           | PASS    |
|                           | HCH     | 1                | 0      | 5.51                          | <13           | PASS    |
|                           |         | 1                | 24     | 5.44                          | <13           | PASS    |
|                           |         | 1                | 49     | 5.05                          | <13           | PASS    |
|                           |         | 25               | 0      | 5.45                          | <13           | PASS    |
|                           |         | 25               | 12     | 5.4                           | <13           | PASS    |
|                           |         | 25               | 25     | 5.24                          | <13           | PASS    |
|                           |         | 50               | 0      | 5.46                          | <13           | PASS    |
| 16QAM                     | LCH     | 1                | 0      | 6.6                           | <13           | PASS    |
|                           |         | 1                | 24     | 6.27                          | <13           | PASS    |

|  |     |    |    |      |     |      |
|--|-----|----|----|------|-----|------|
|  |     | 1  | 49 | 6.17 | <13 | PASS |
|  |     | 25 | 0  | 6.66 | <13 | PASS |
|  |     | 25 | 12 | 6.64 | <13 | PASS |
|  |     | 25 | 25 | 6.53 | <13 | PASS |
|  |     | 50 | 0  | 6.46 | <13 | PASS |
|  | MCH | 1  | 0  | 6.1  | <13 | PASS |
|  |     | 1  | 24 | 6.01 | <13 | PASS |
|  |     | 1  | 49 | 5.91 | <13 | PASS |
|  |     | 25 | 0  | 6.61 | <13 | PASS |
|  |     | 25 | 12 | 6.57 | <13 | PASS |
|  |     | 25 | 25 | 6.55 | <13 | PASS |
|  |     | 50 | 0  | 6.48 | <13 | PASS |
|  | HCH | 1  | 0  | 6.49 | <13 | PASS |
|  |     | 1  | 24 | 6.28 | <13 | PASS |
|  |     | 1  | 49 | 5.96 | <13 | PASS |
|  |     | 25 | 0  | 6.49 | <13 | PASS |
|  |     | 25 | 12 | 6.5  | <13 | PASS |
|  |     | 25 | 25 | 6.34 | <13 | PASS |
|  |     | 50 | 0  | 6.45 | <13 | PASS |

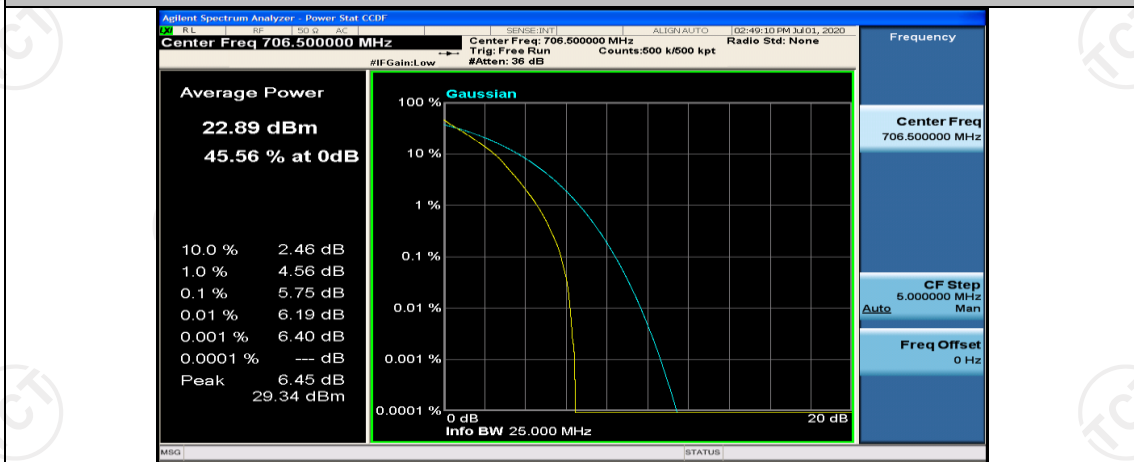
## Test Graphs

### Channel Bandwidth: 5 MHz

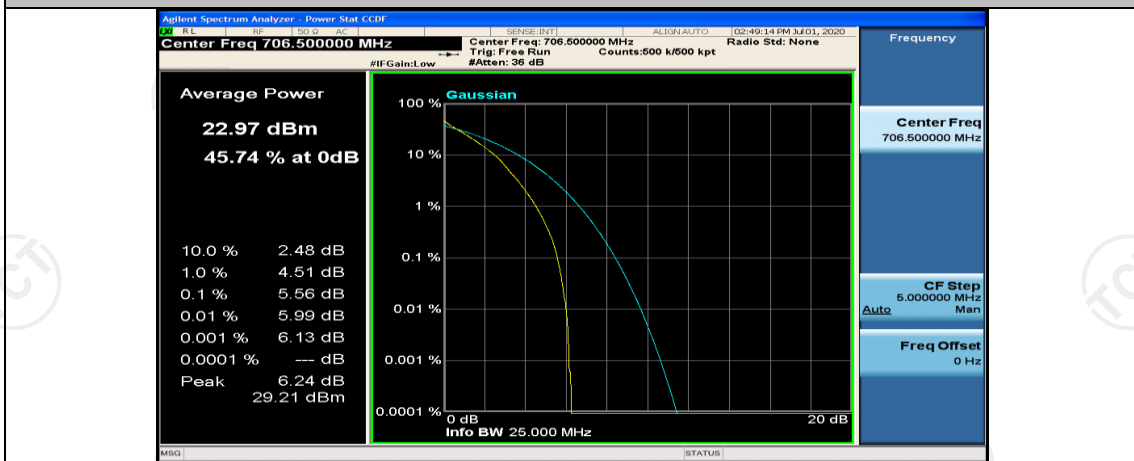




(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#6

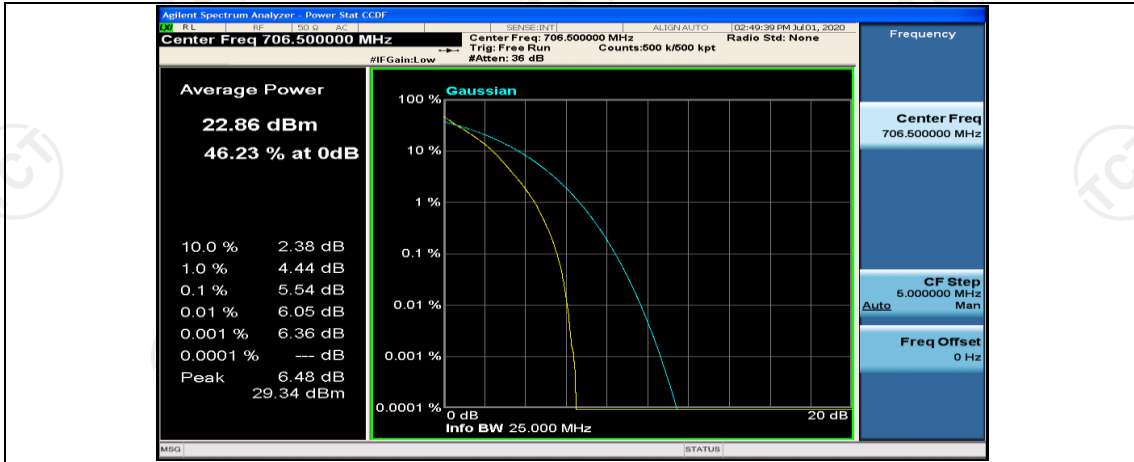


(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#13

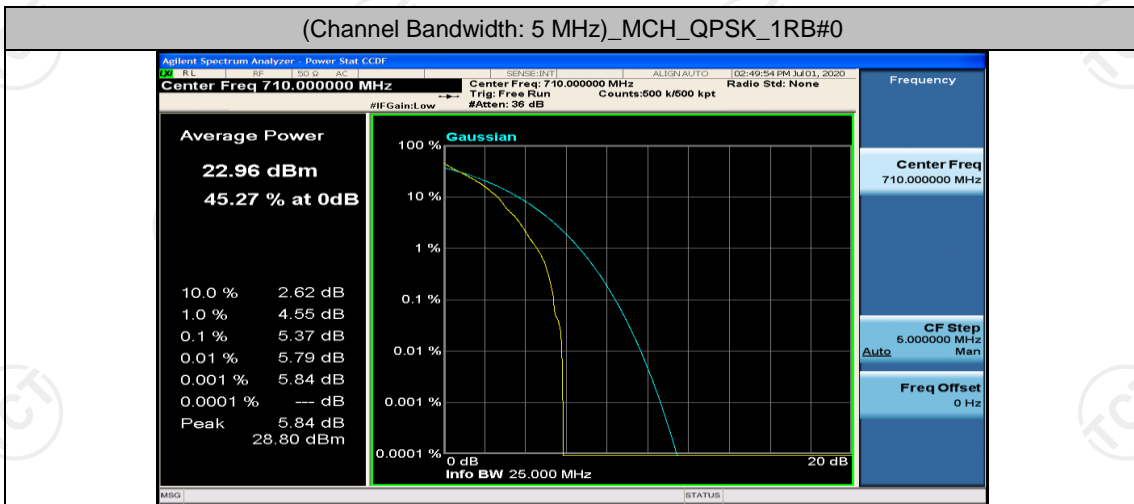


(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0

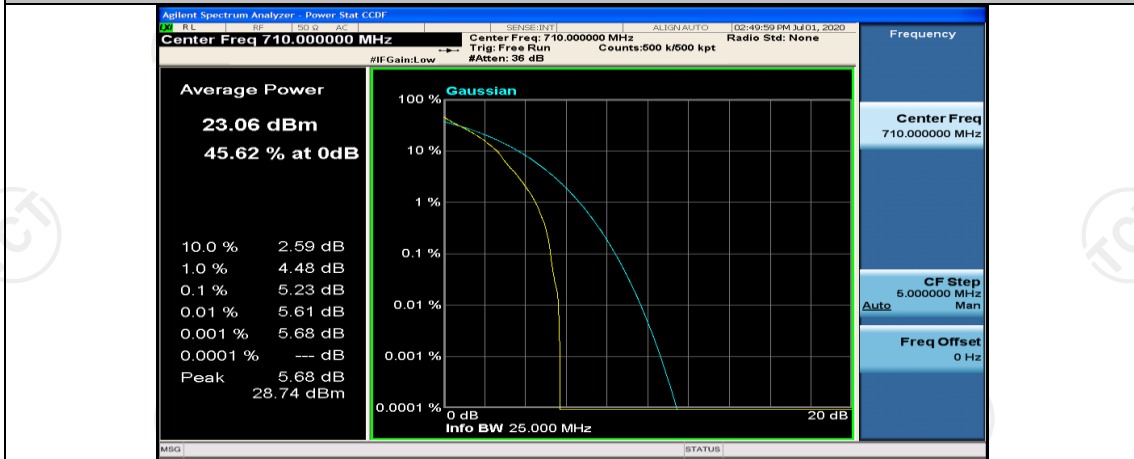




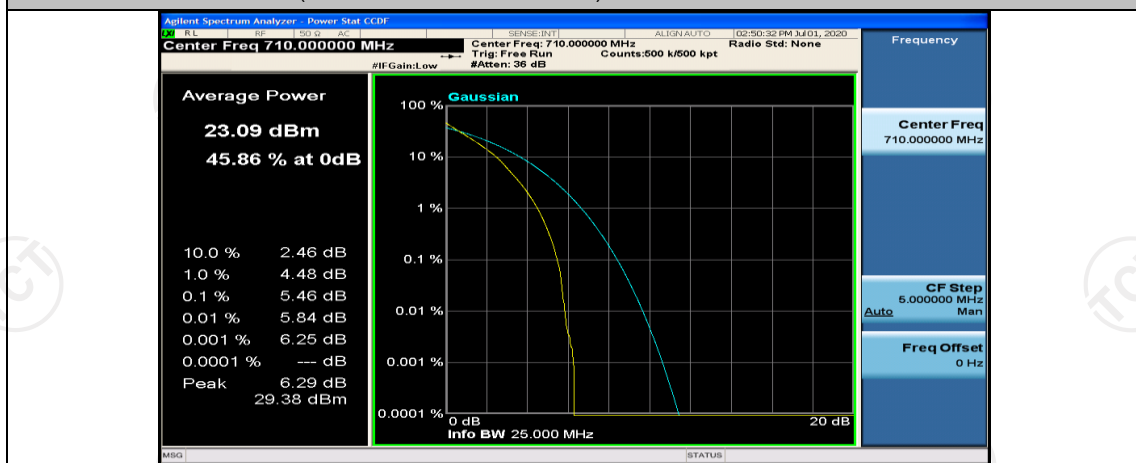
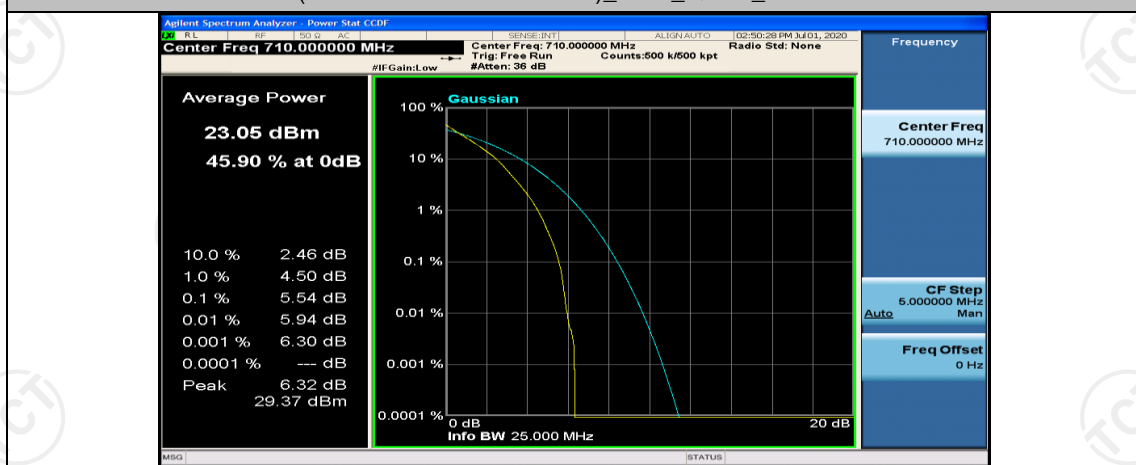
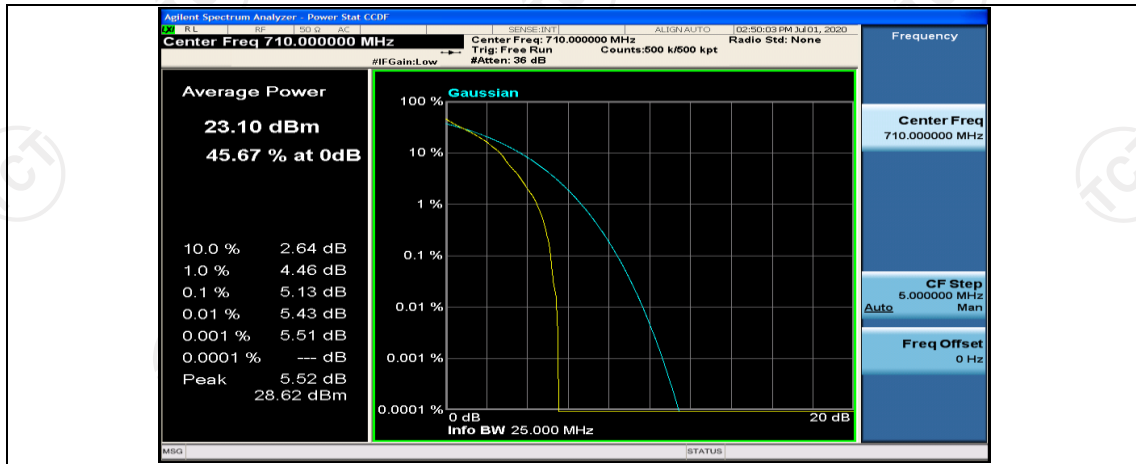
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0

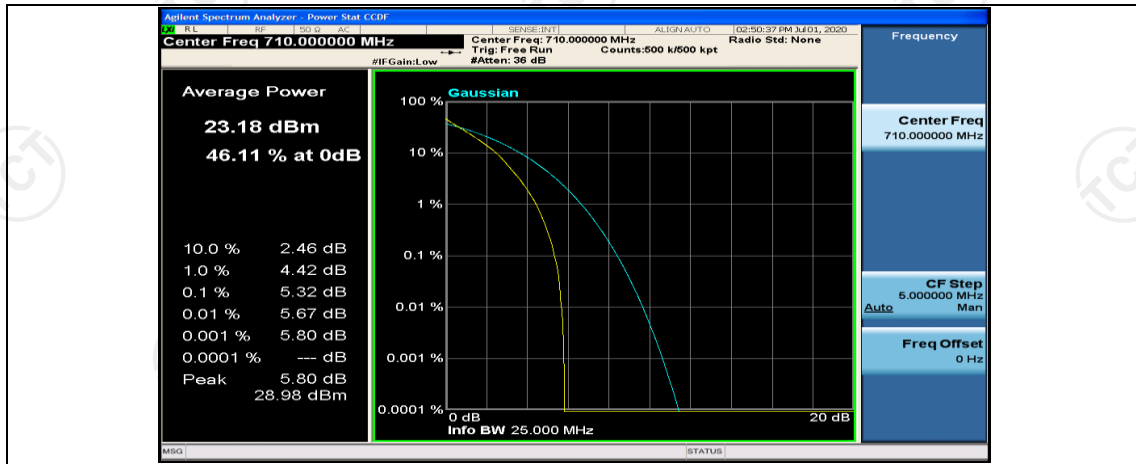


(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12

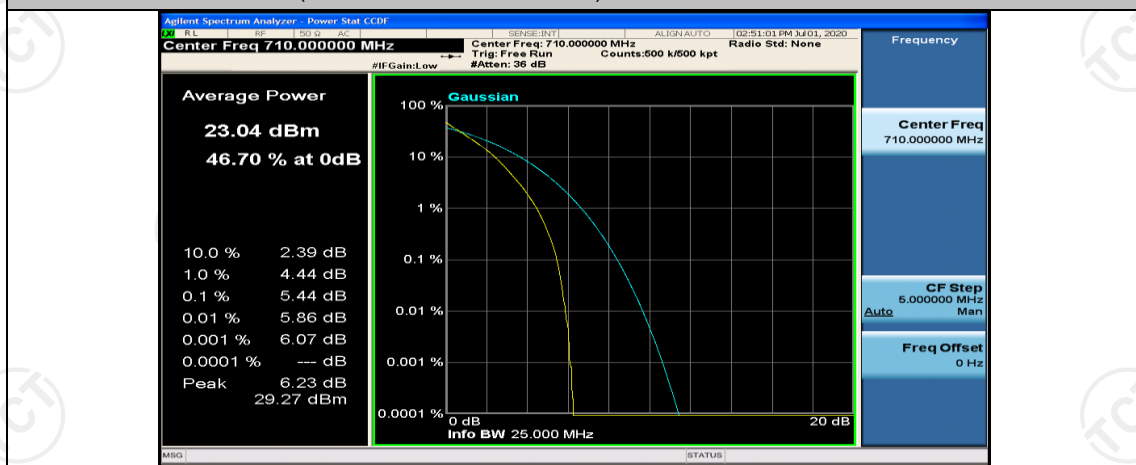


(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#24

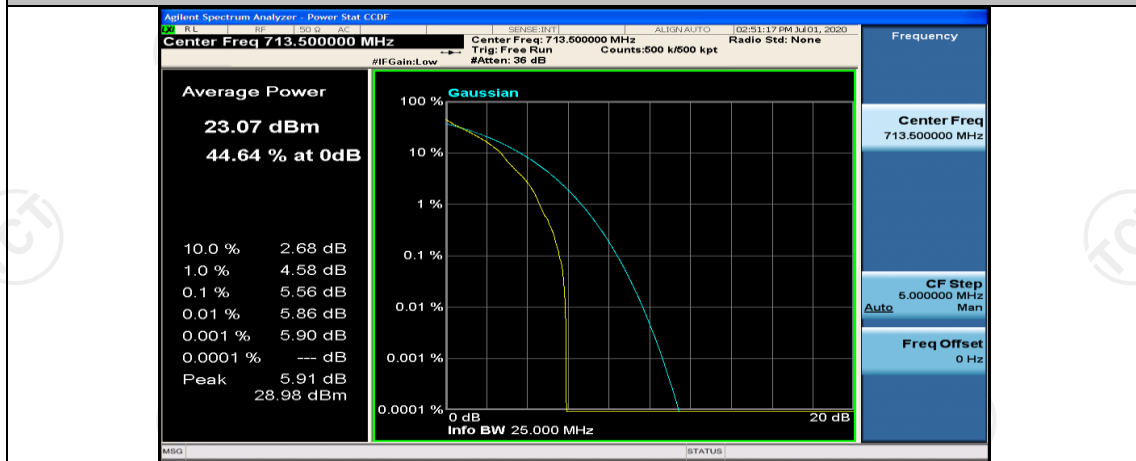




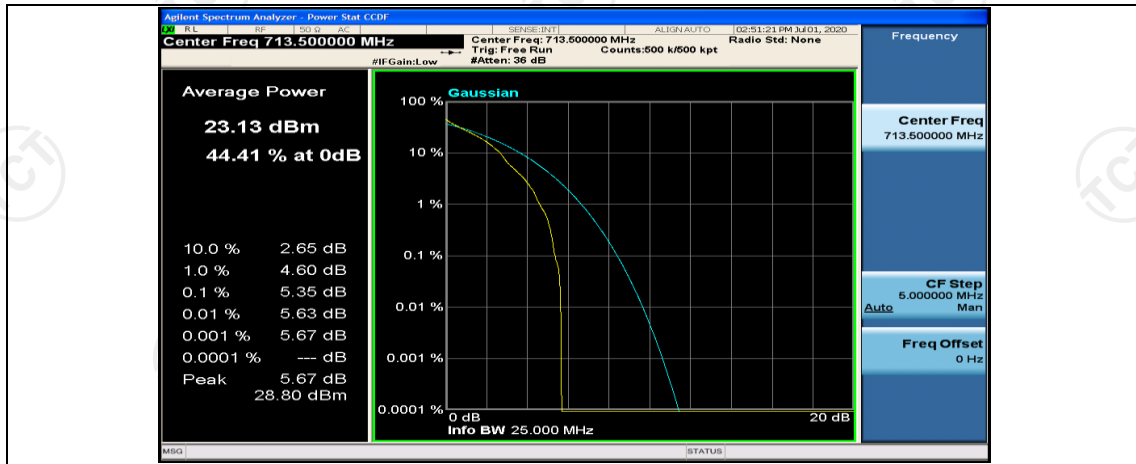
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_25RB#0



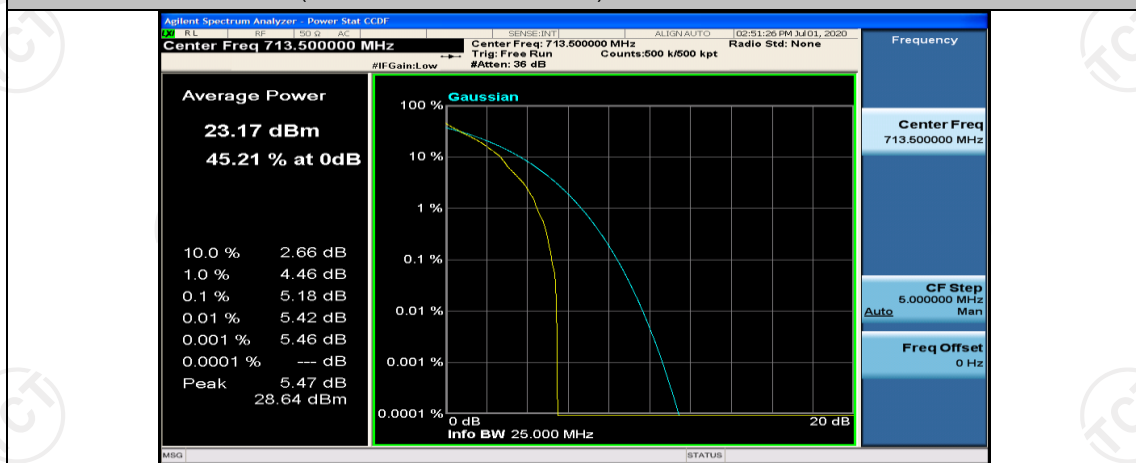
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0



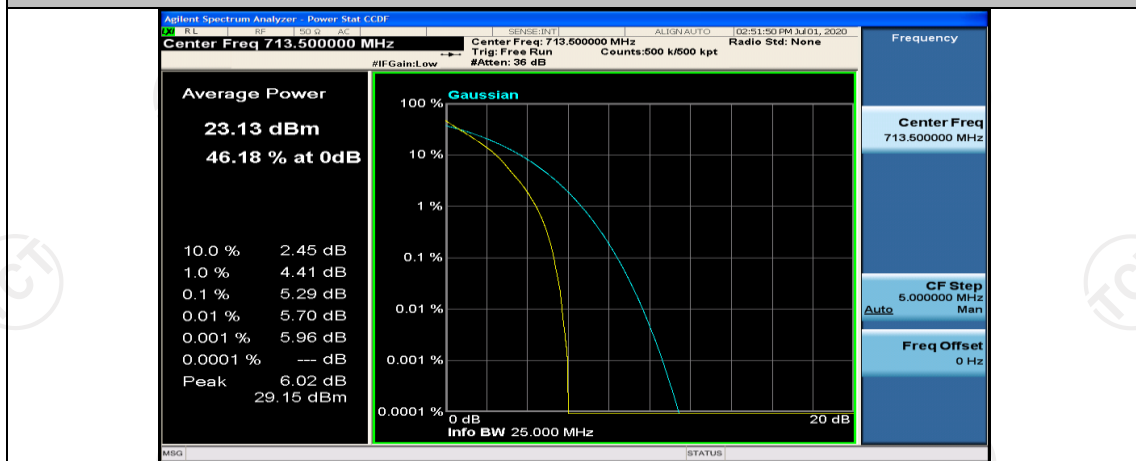
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12



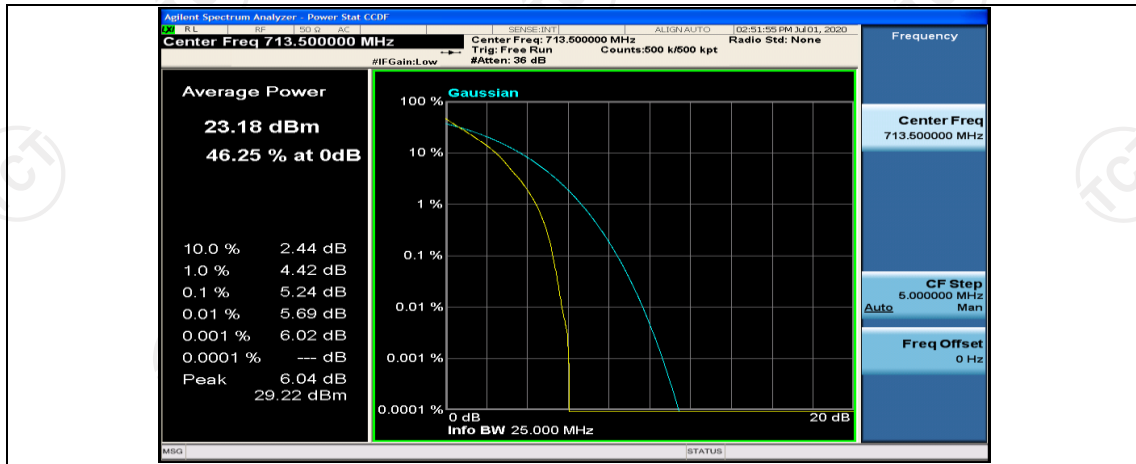
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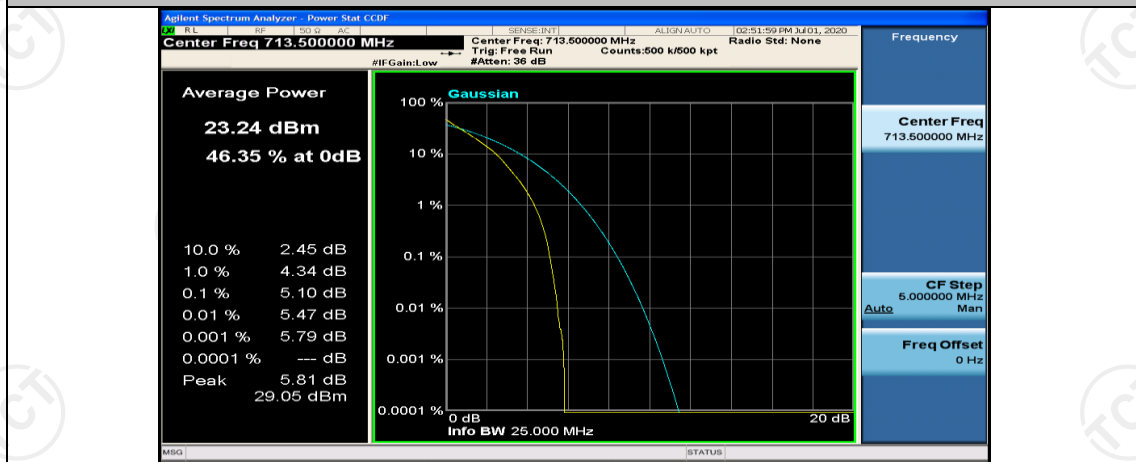
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#0



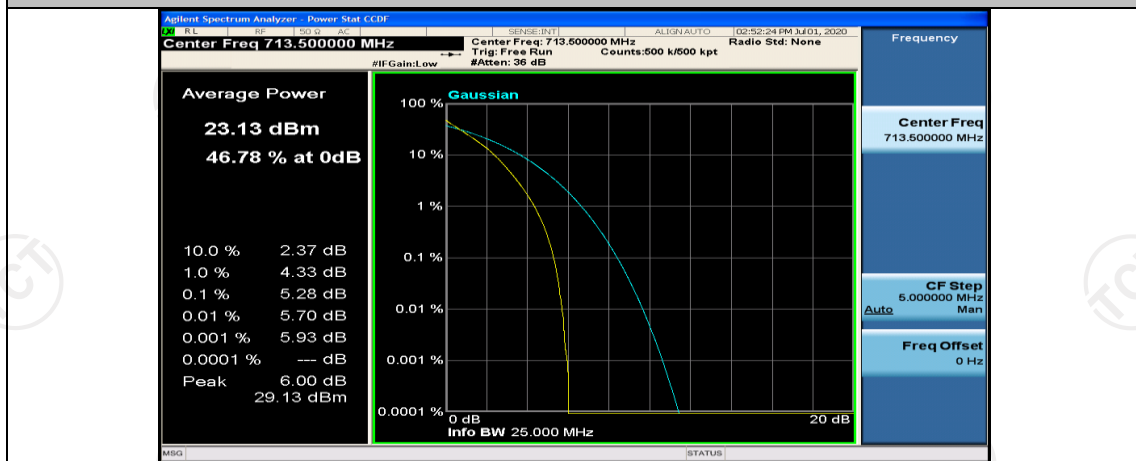
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#6



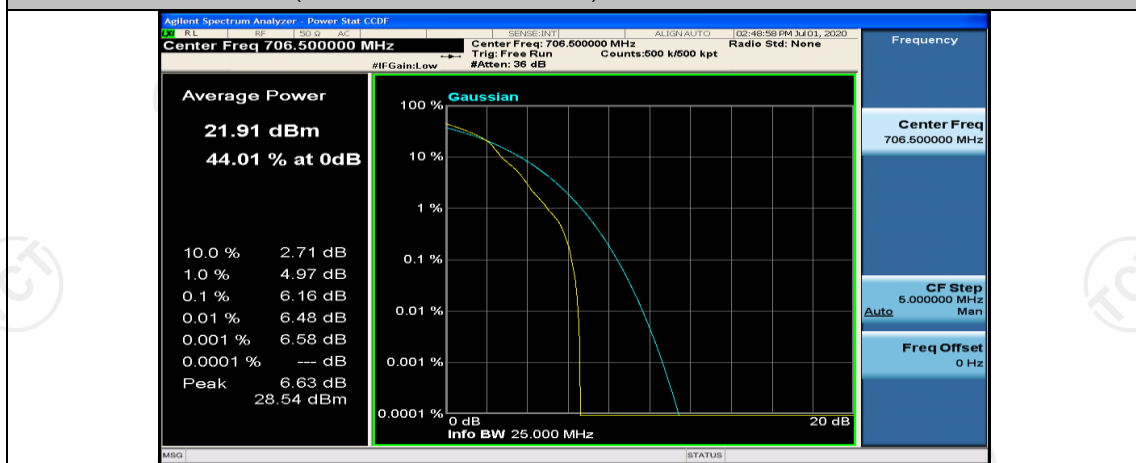
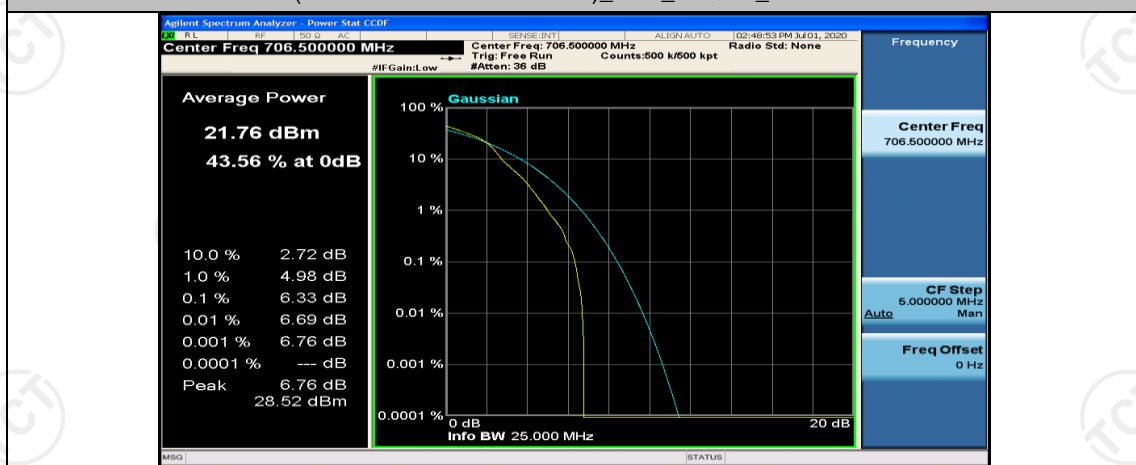
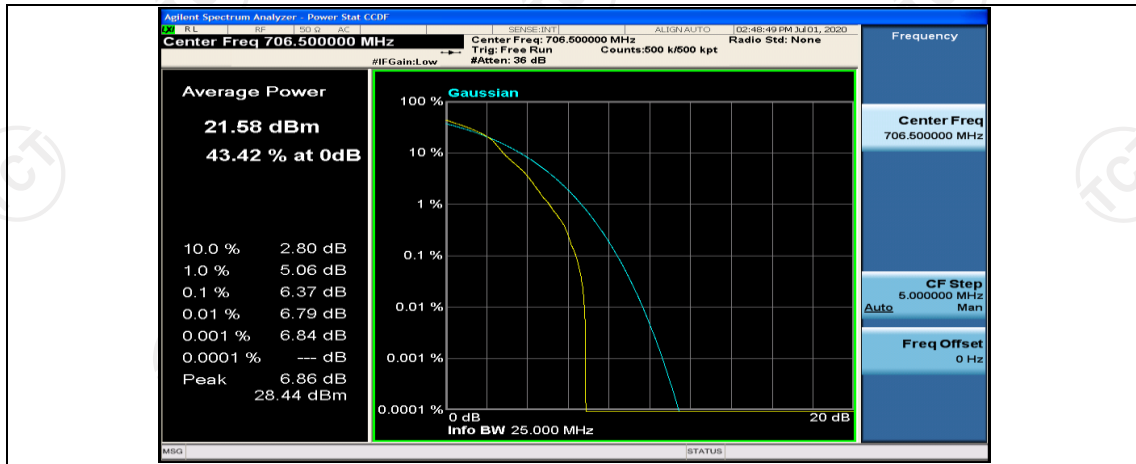
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#13



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_25RB#0



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0

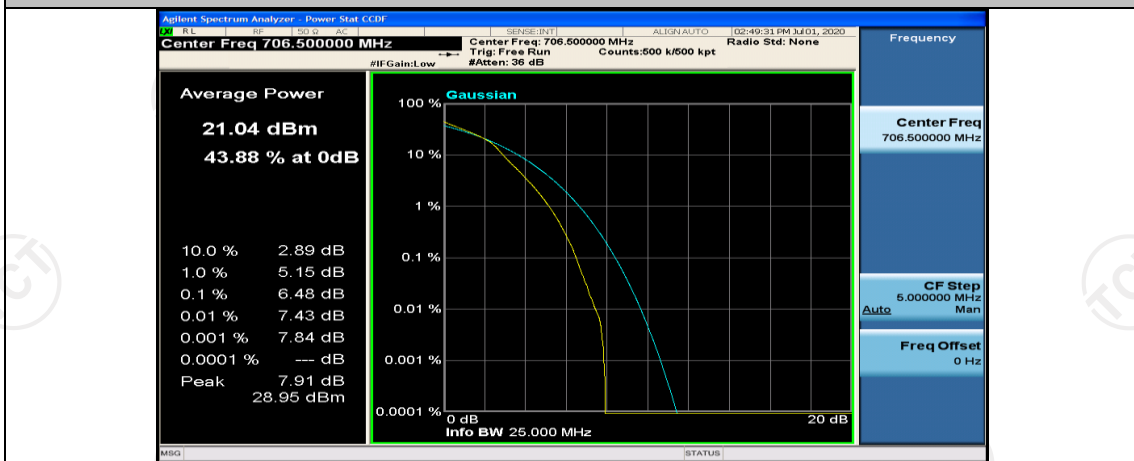




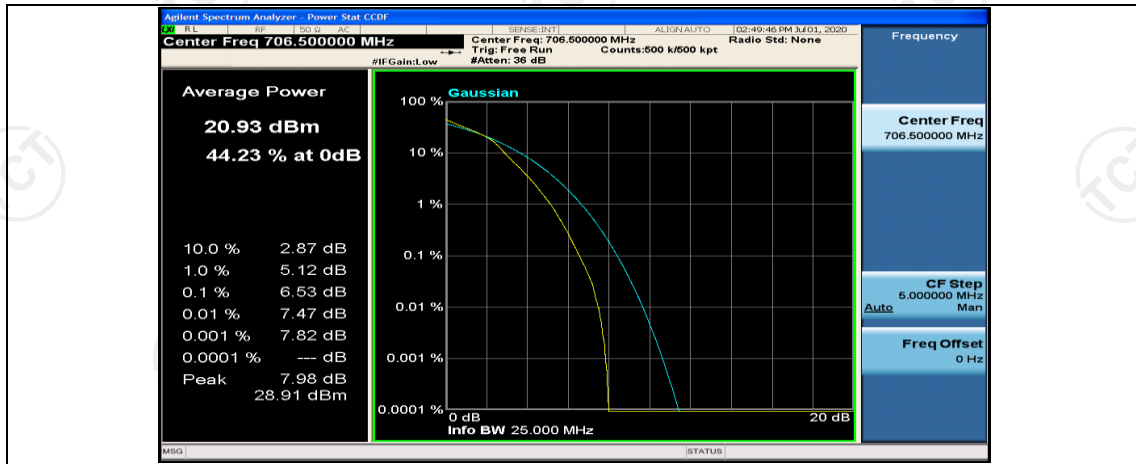
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#6



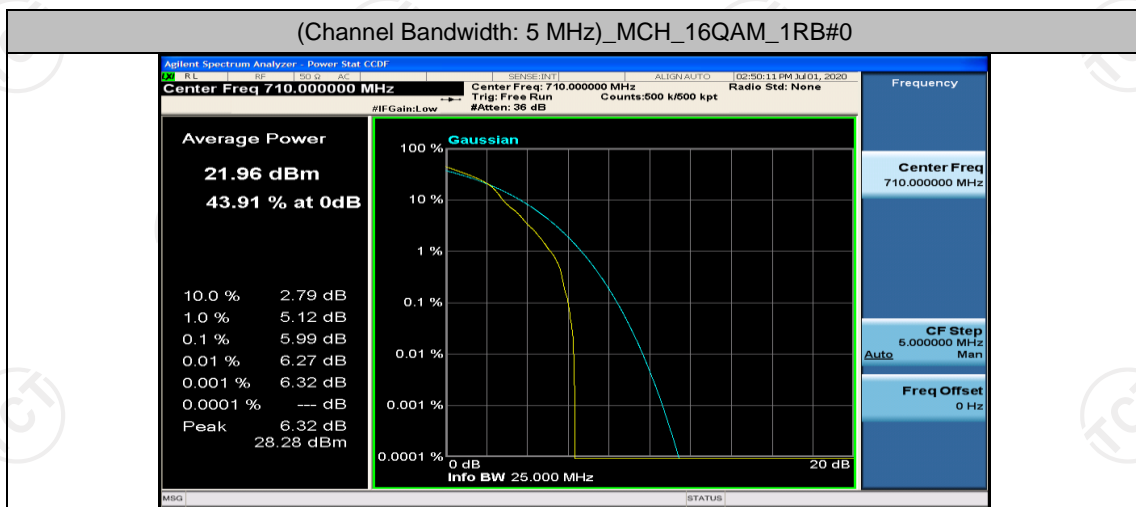
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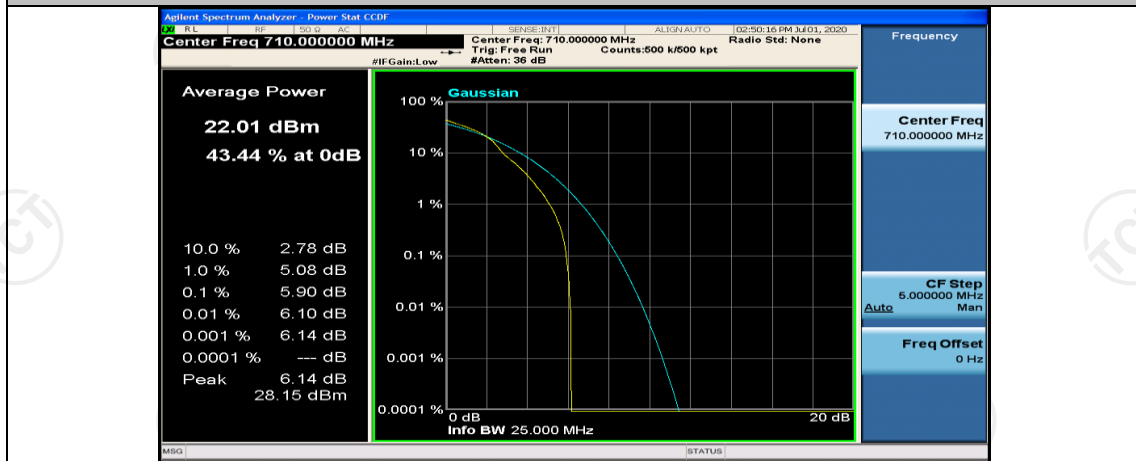
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0

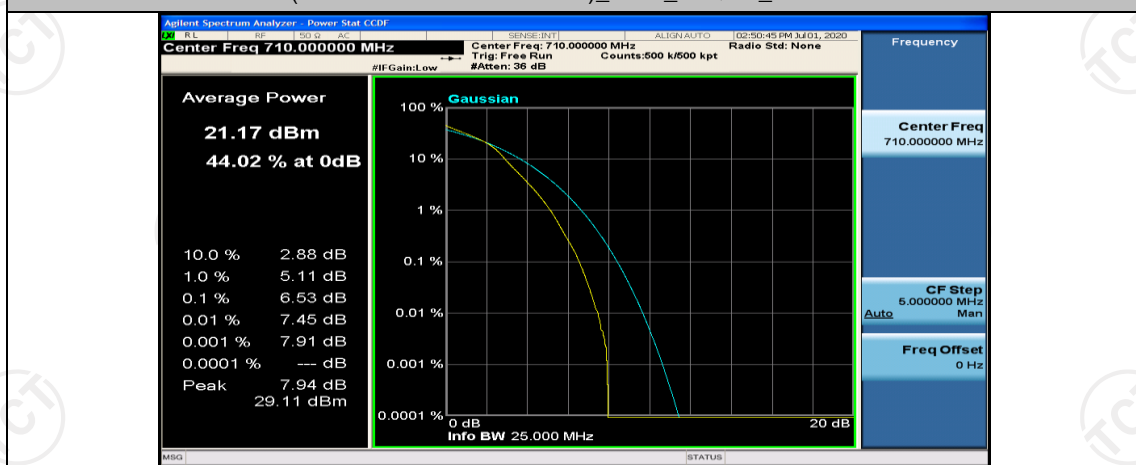
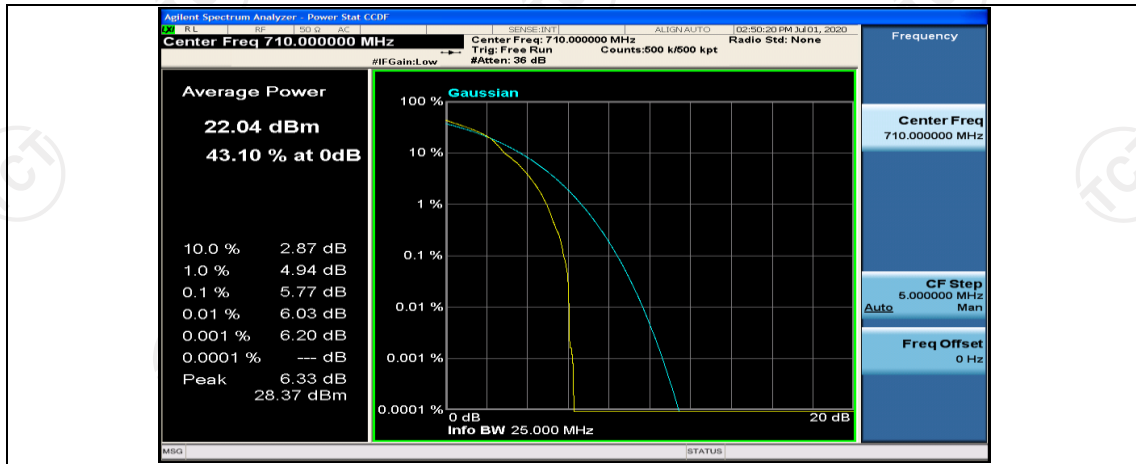


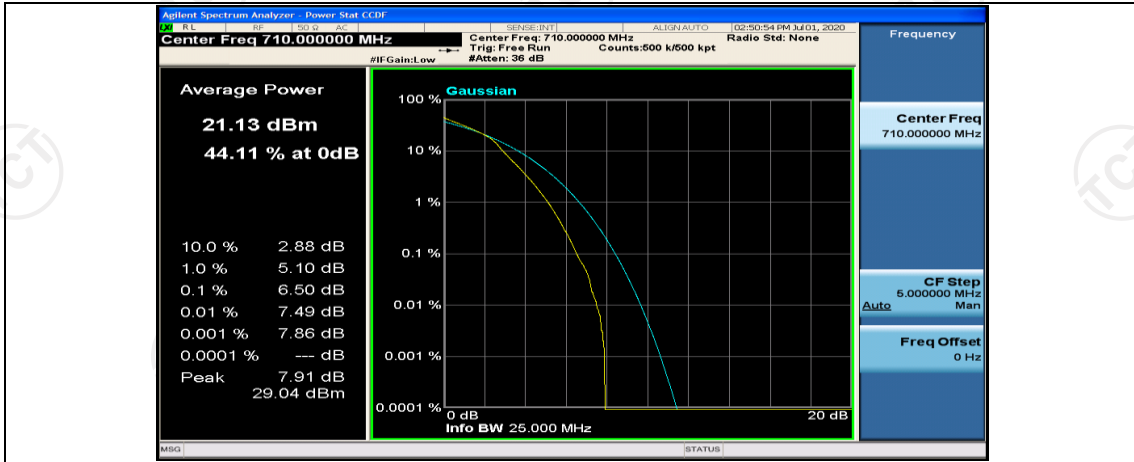
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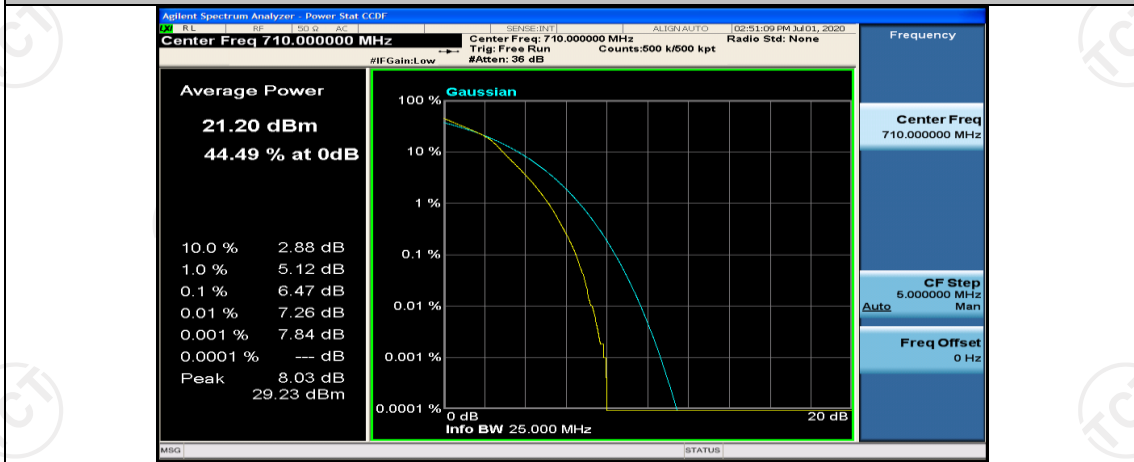
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#24



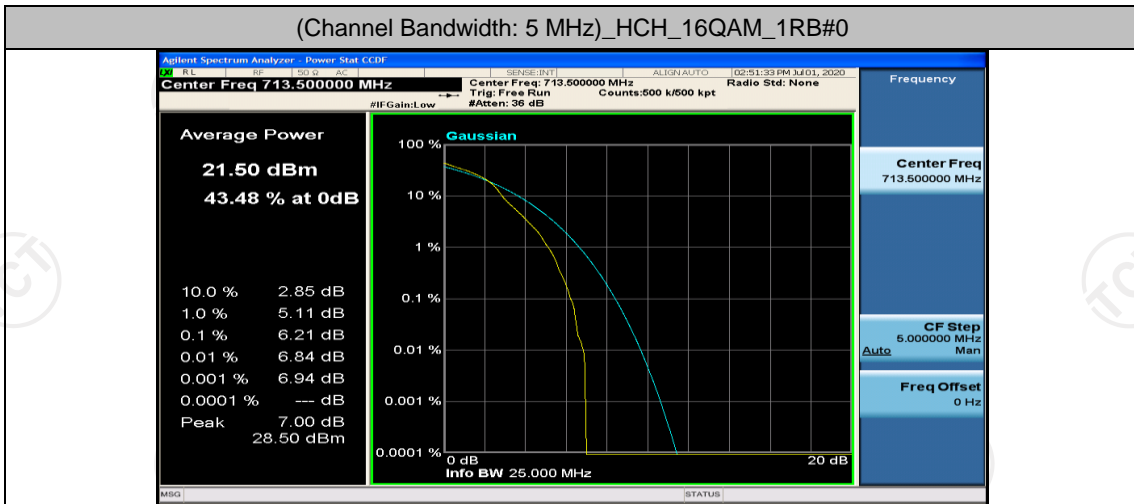




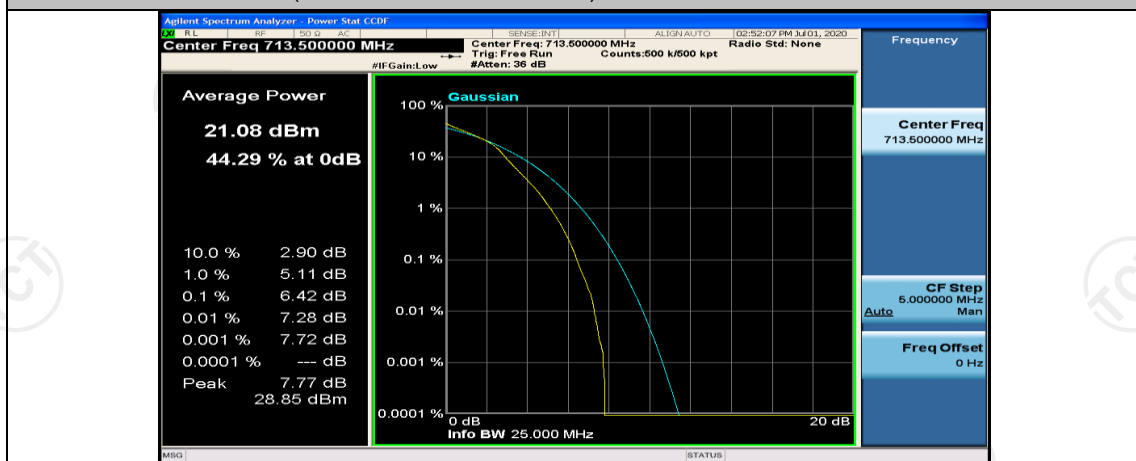
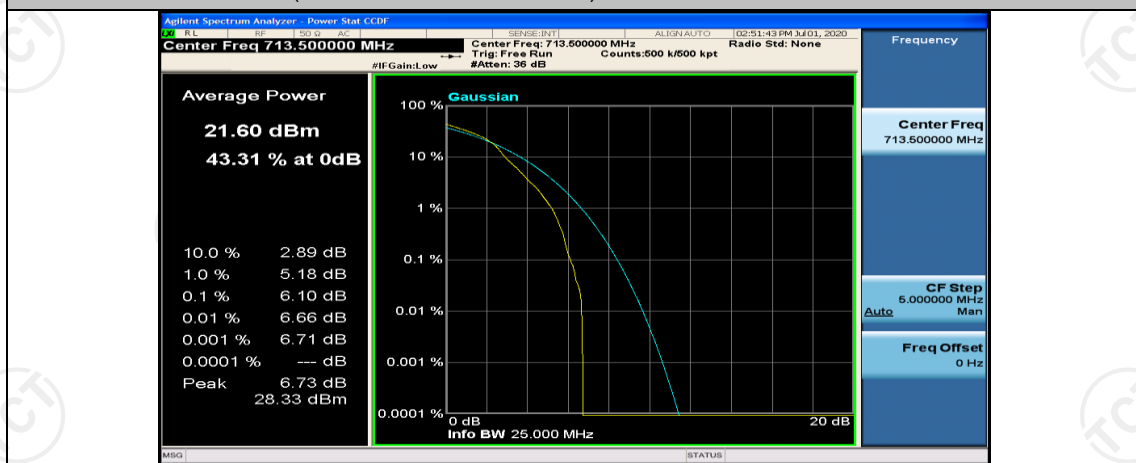
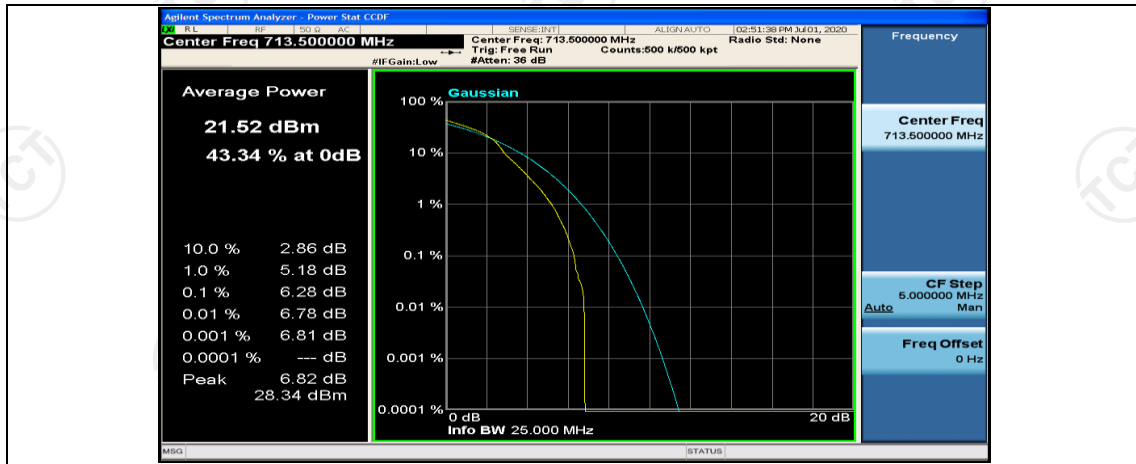
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_25RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0

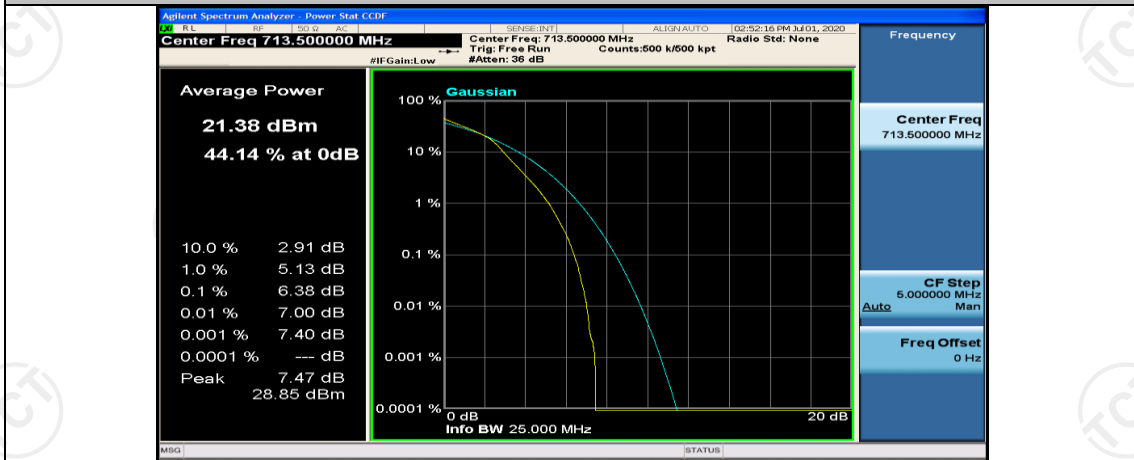


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12

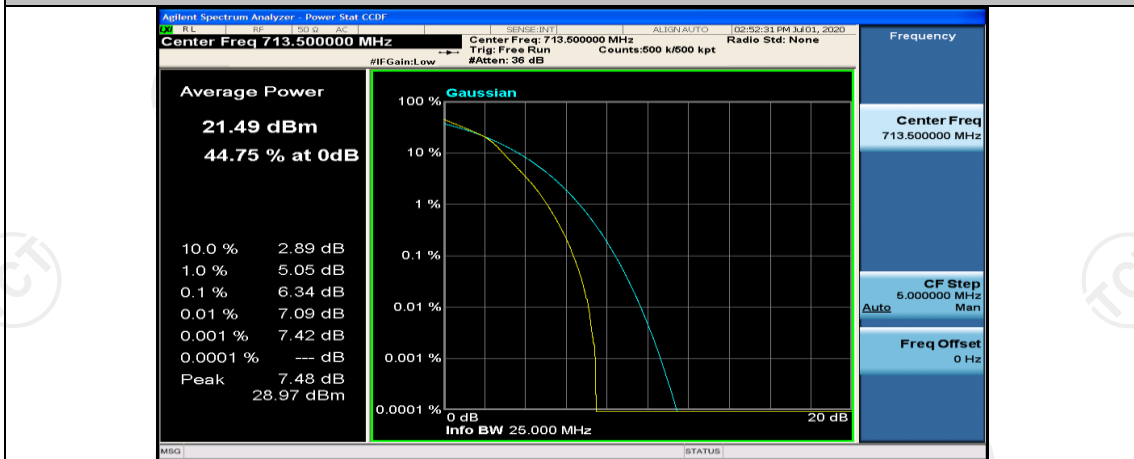




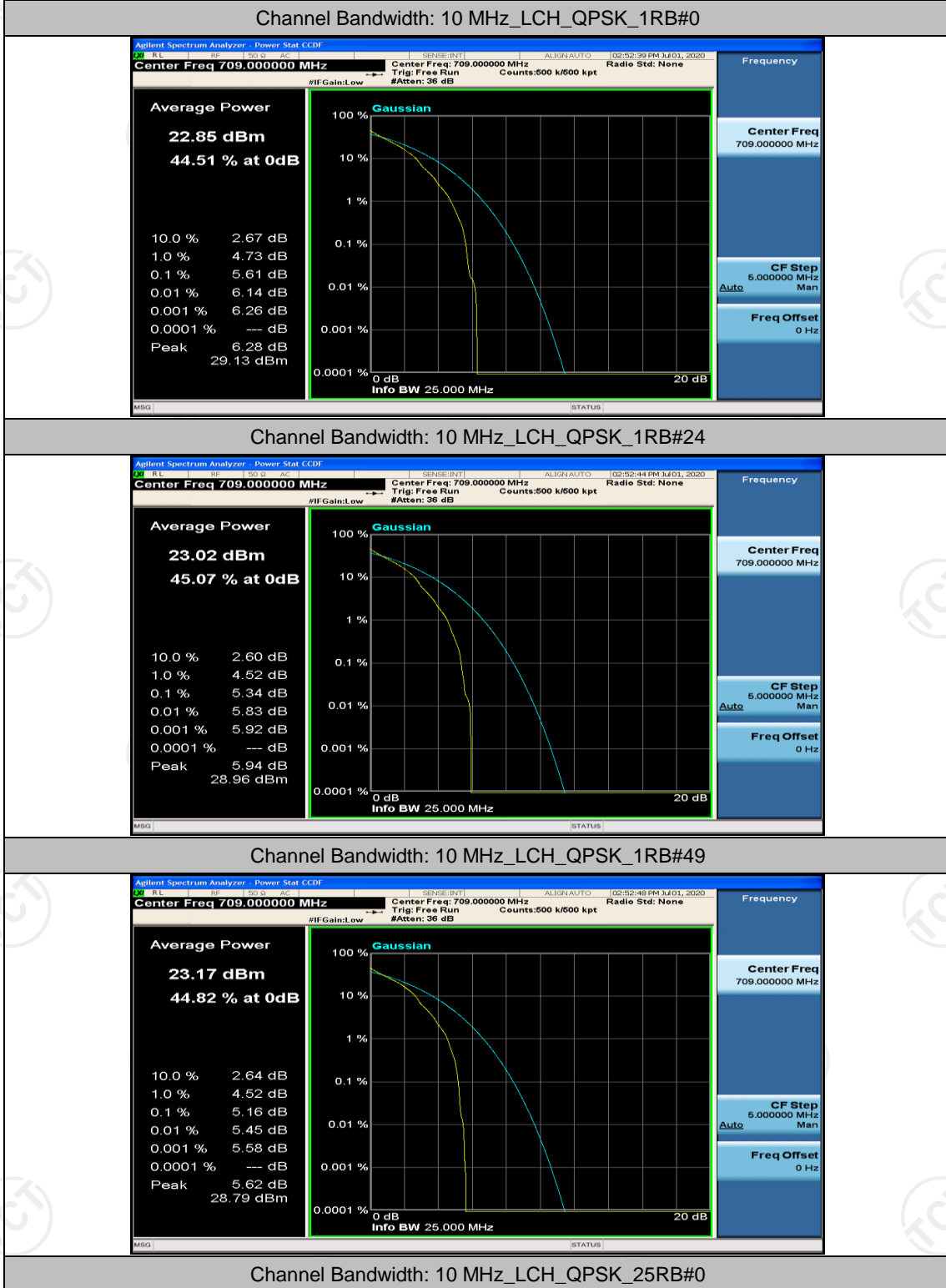
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#13

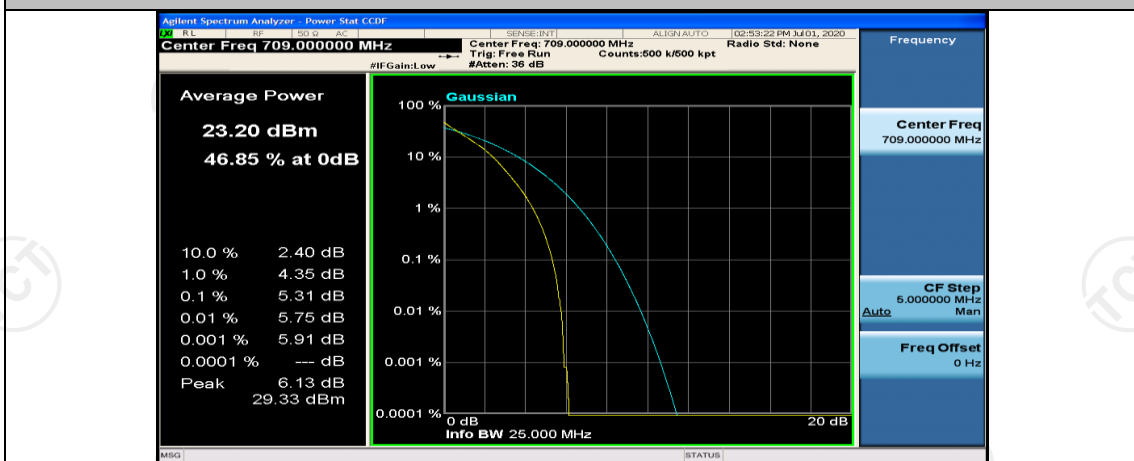
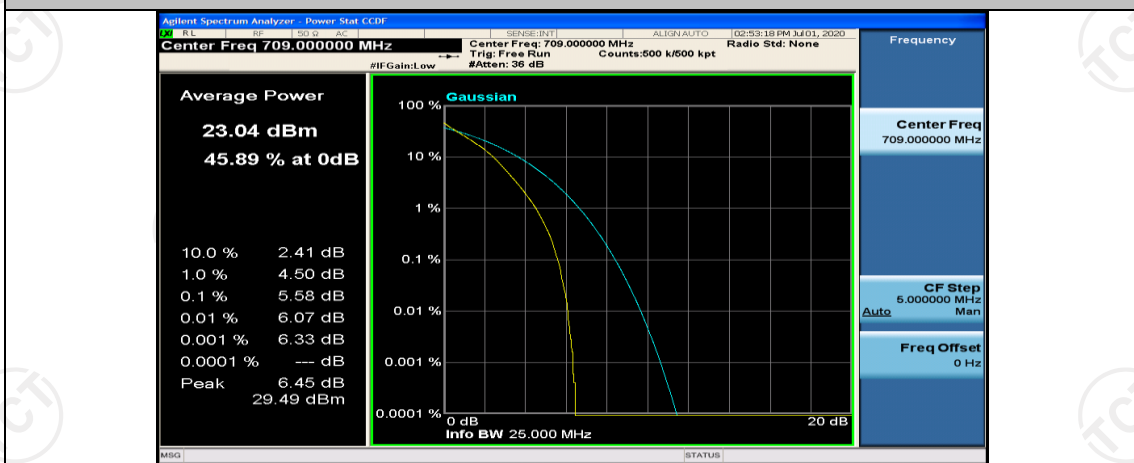
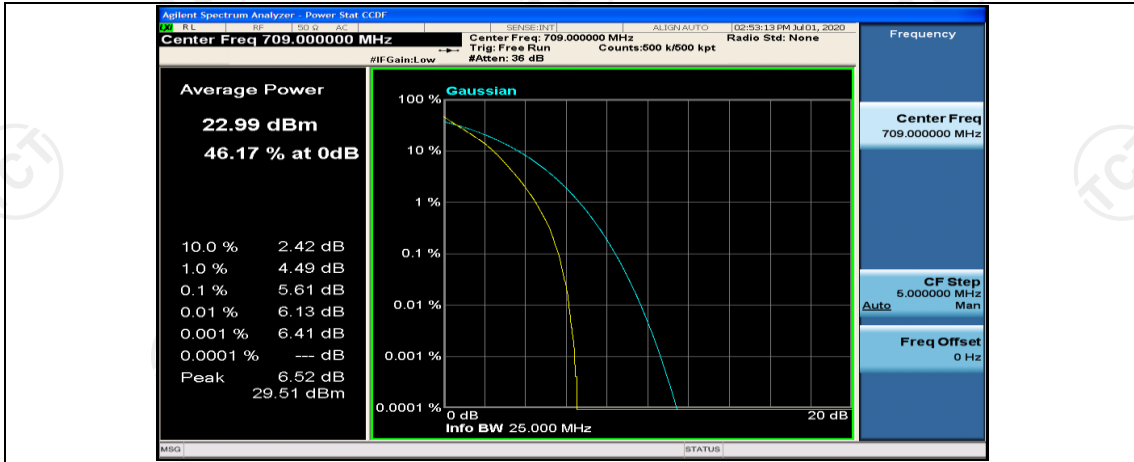


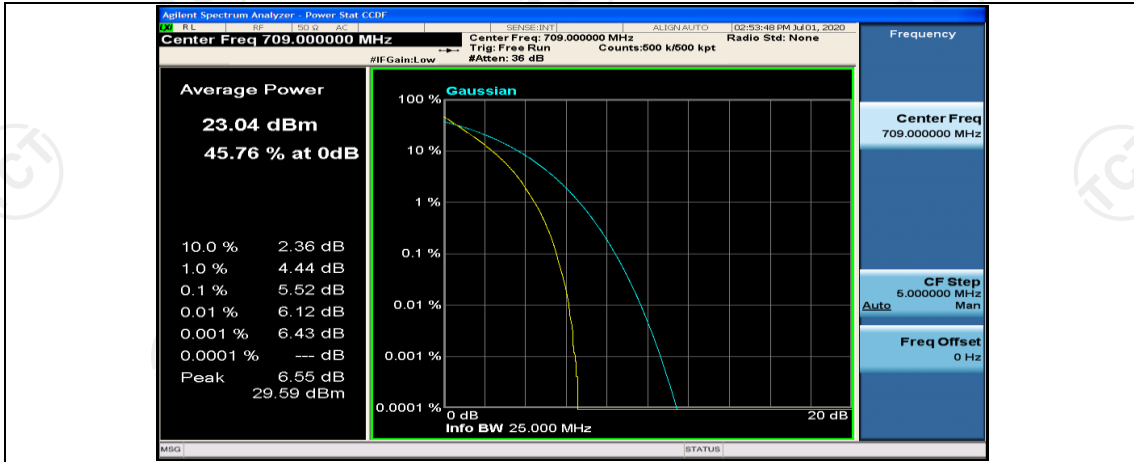
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_25RB#0



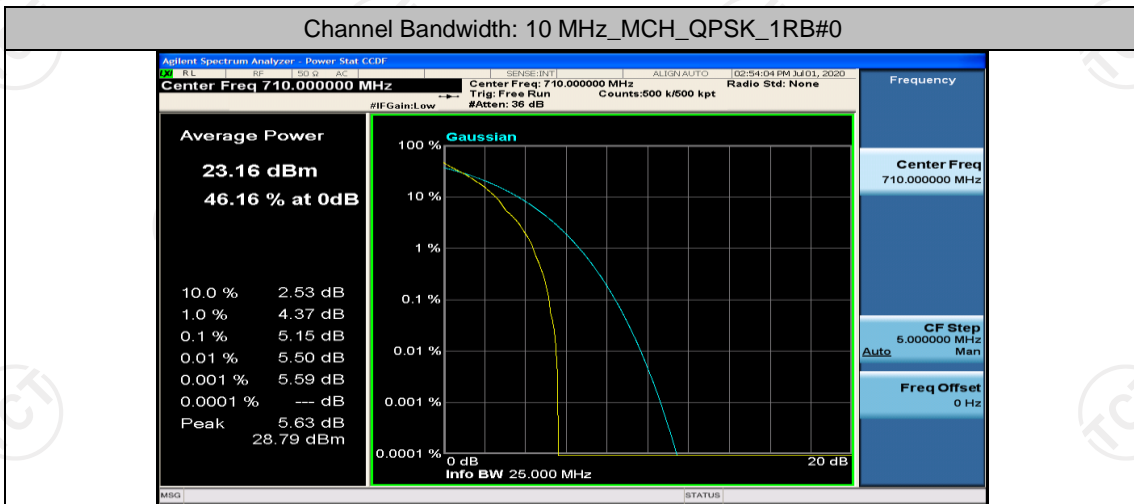
## Channel Bandwidth: 10 MHz



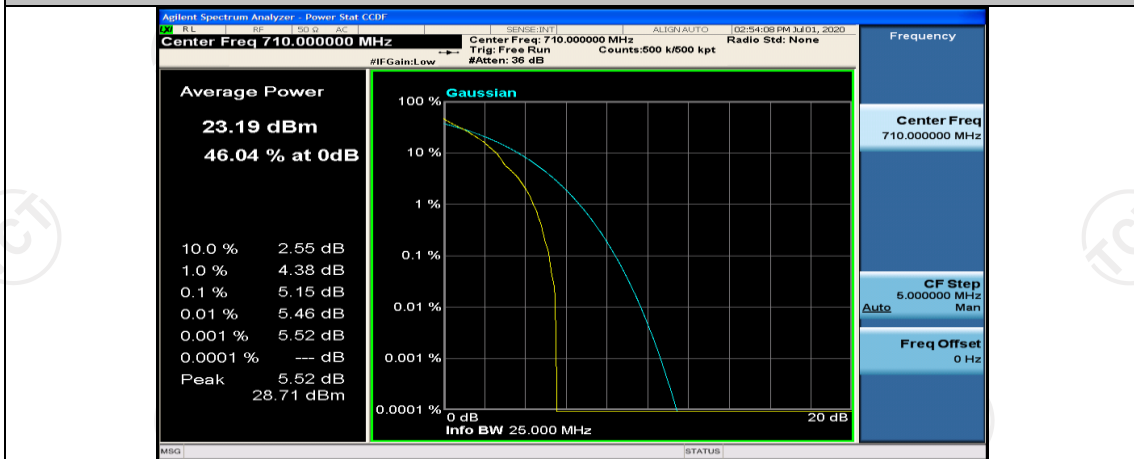




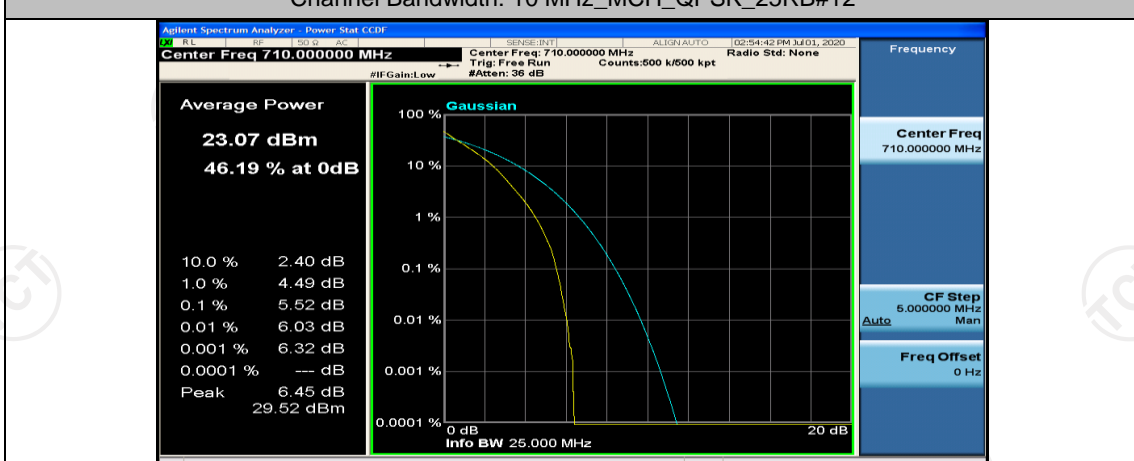
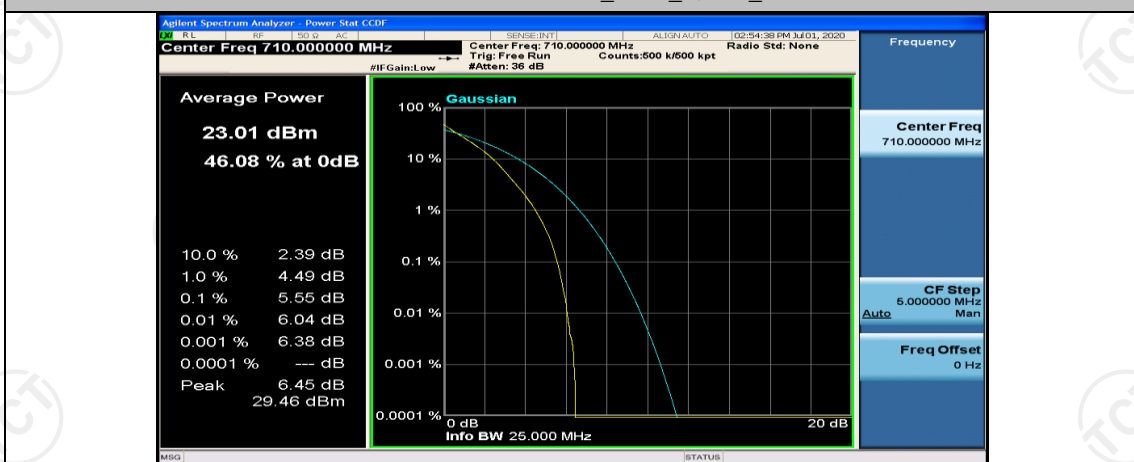
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#0



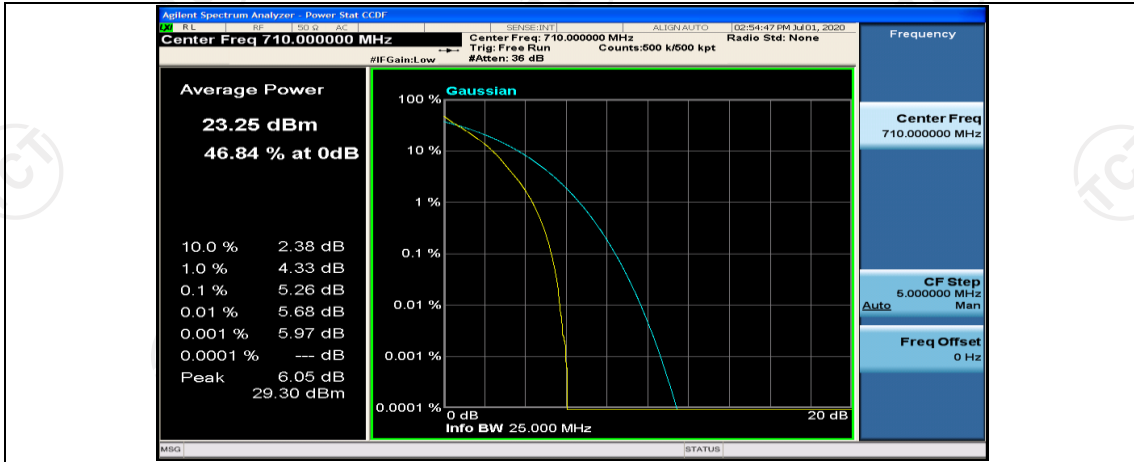
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#24



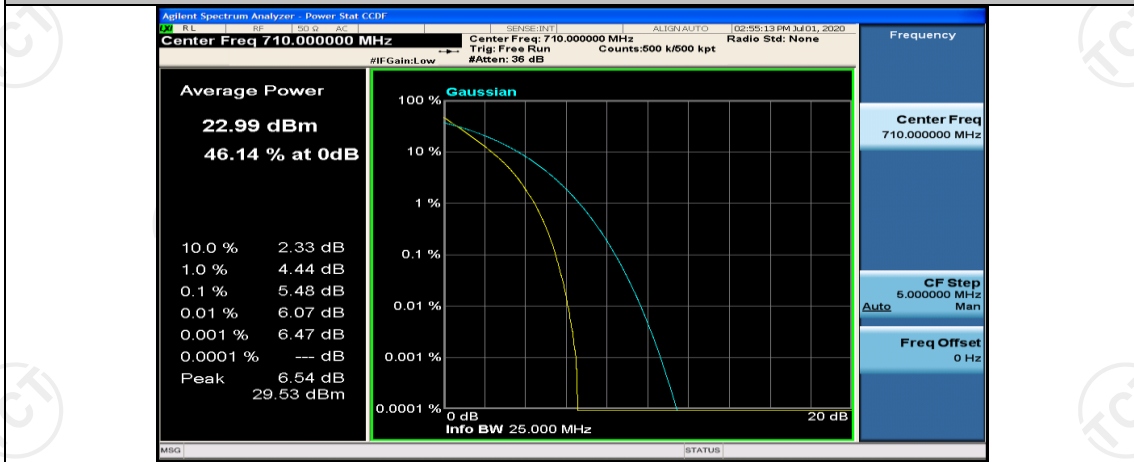
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#49



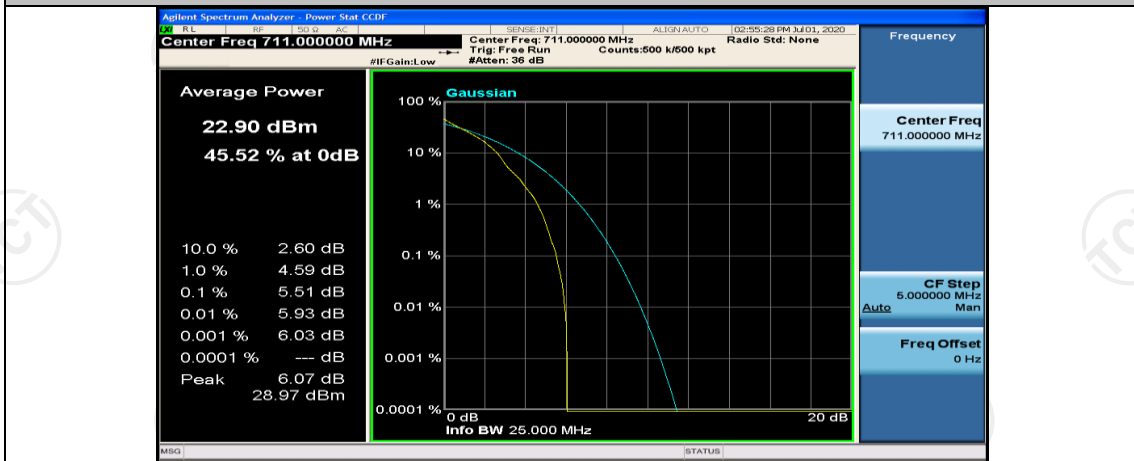




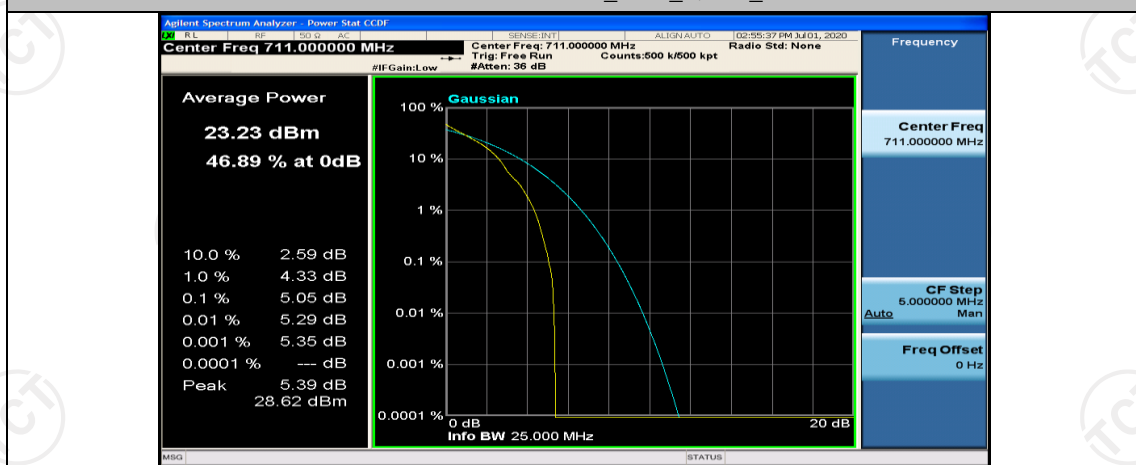
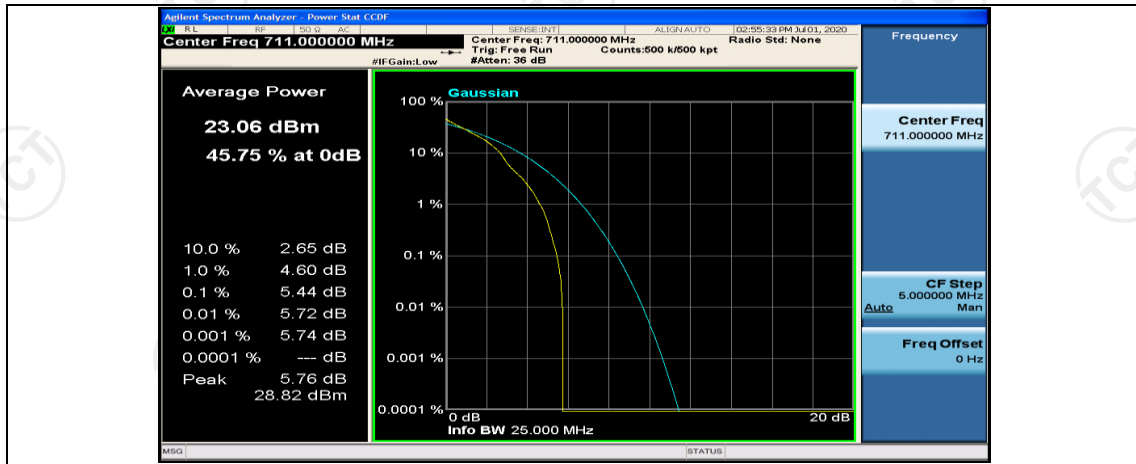
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_50RB#0

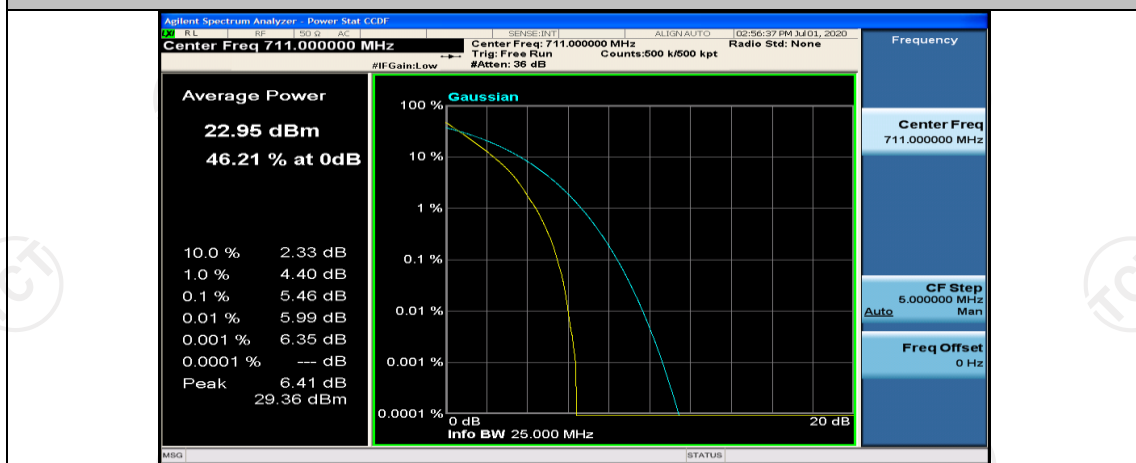
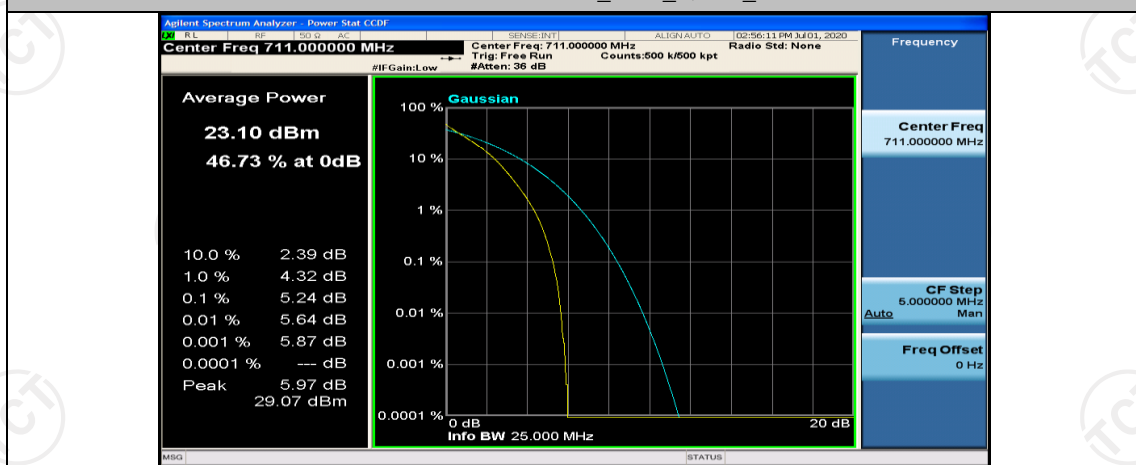
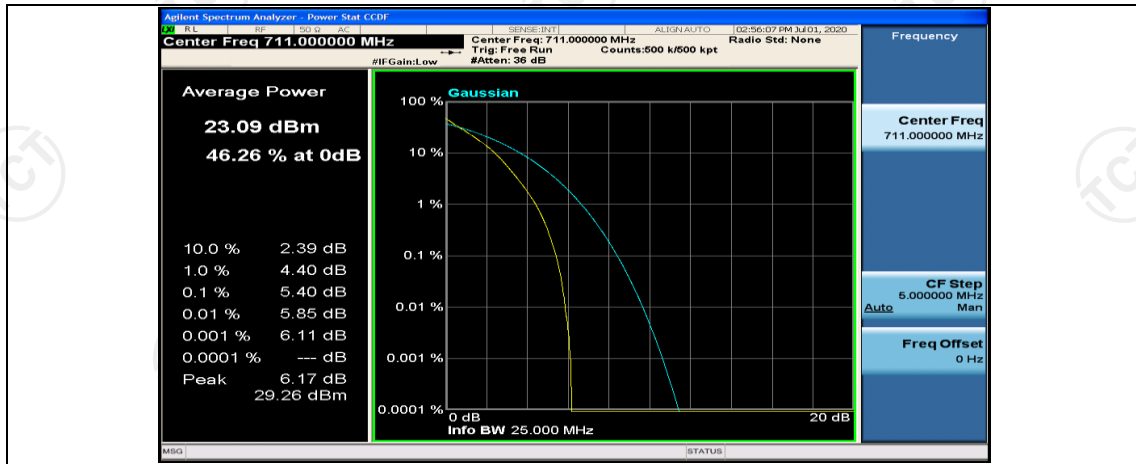


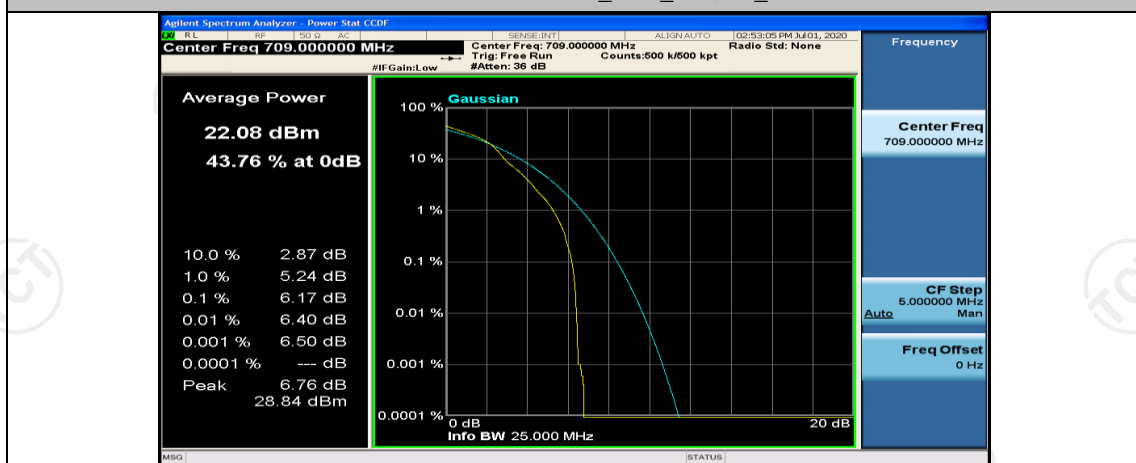
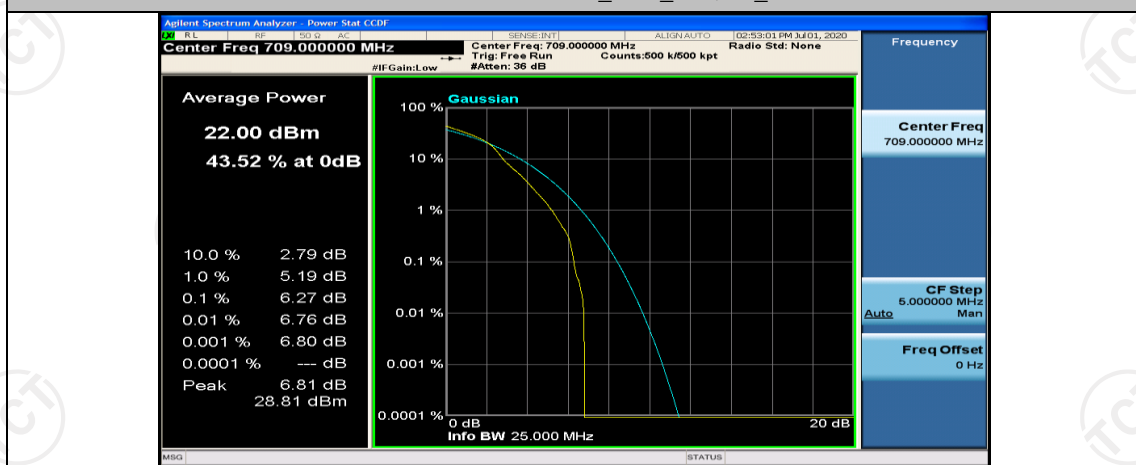
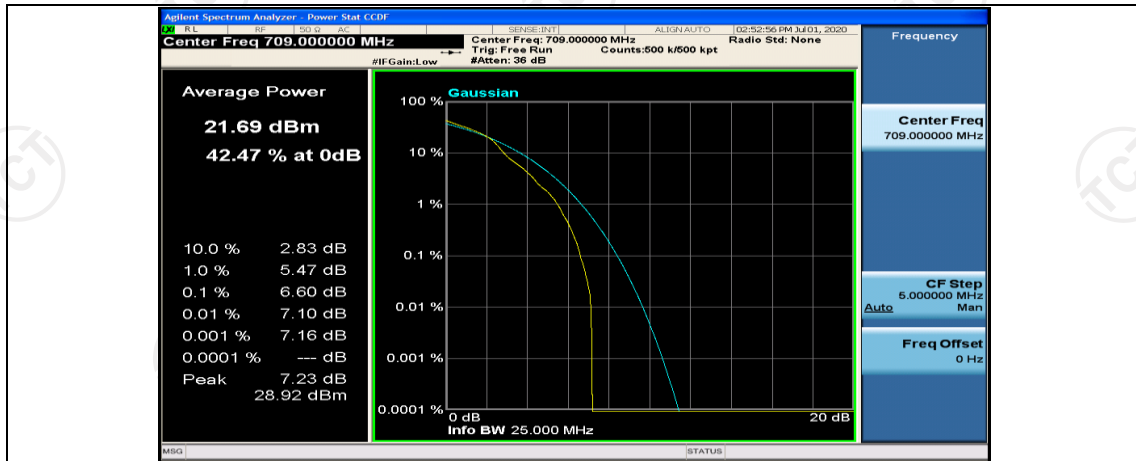
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0

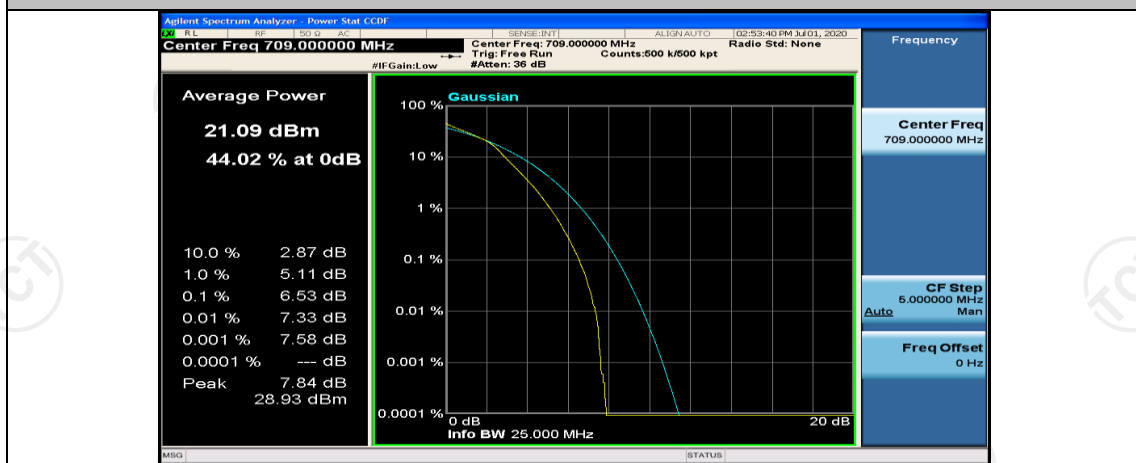
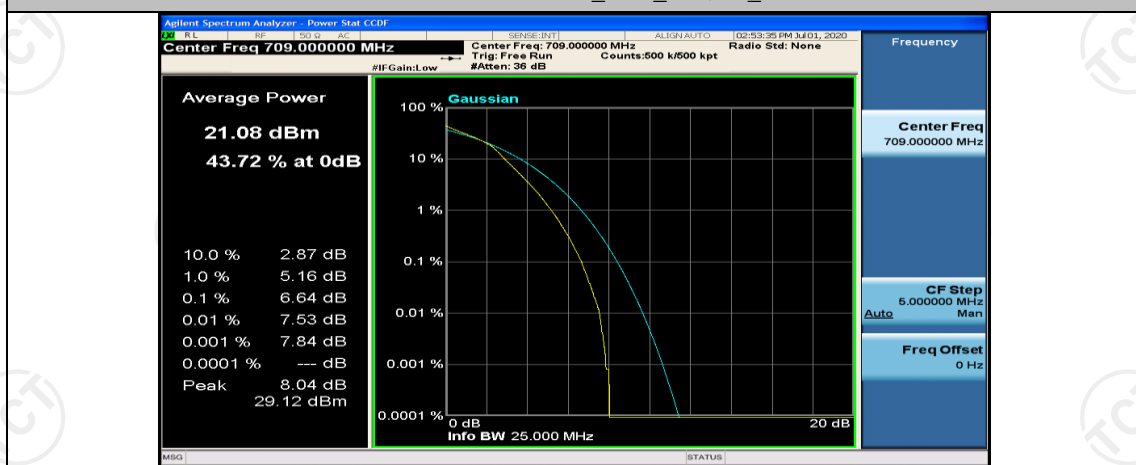
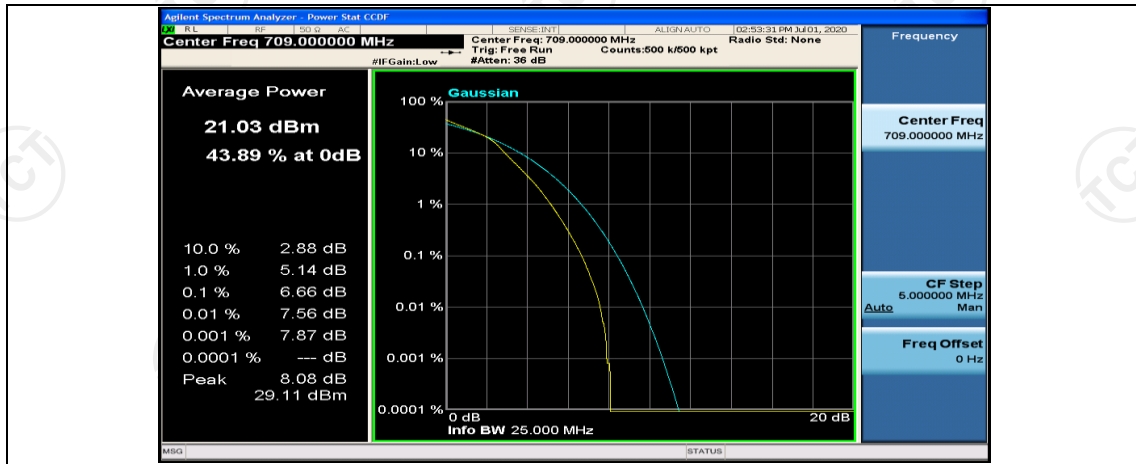


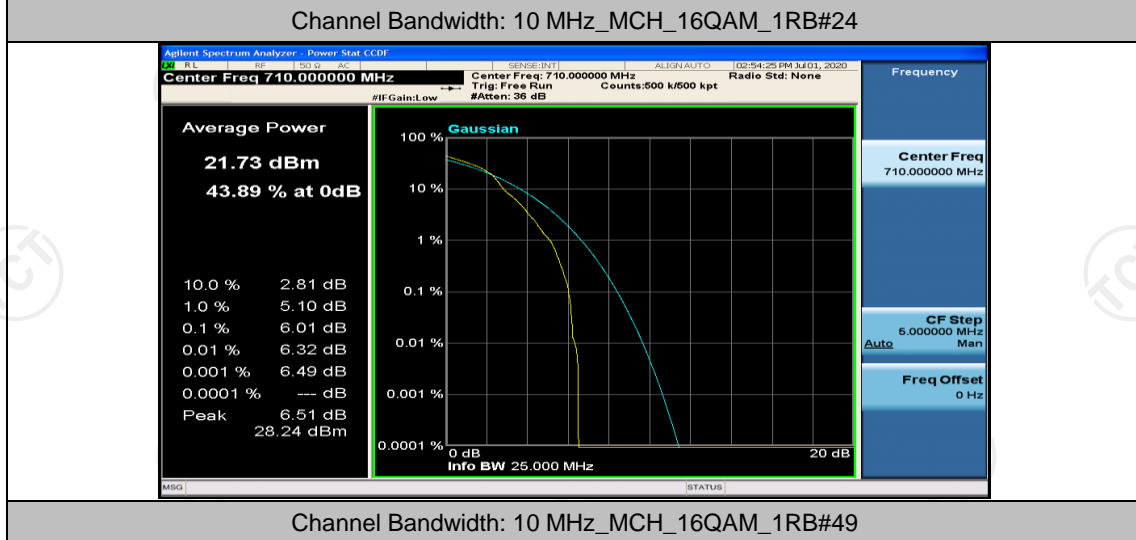
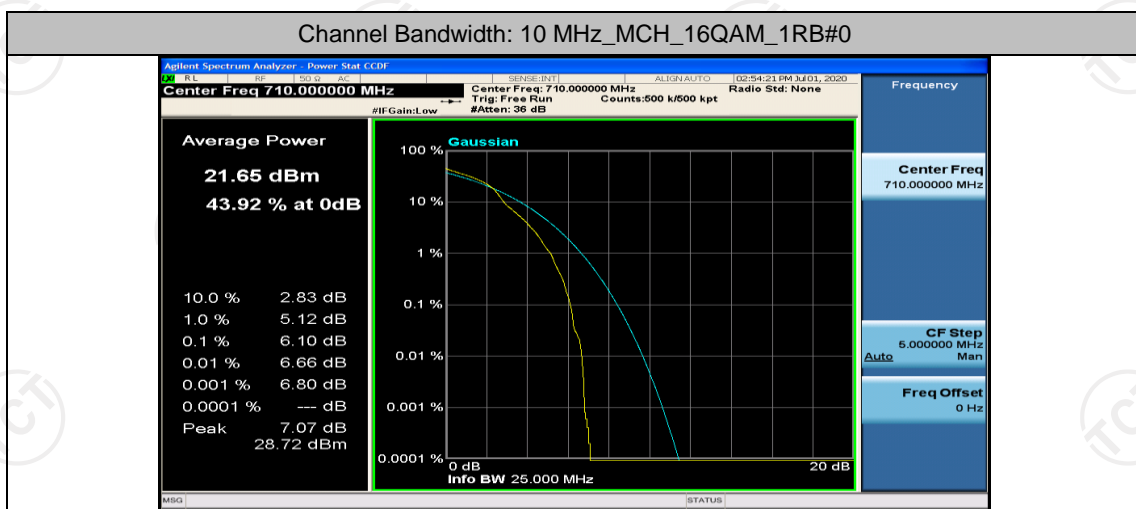
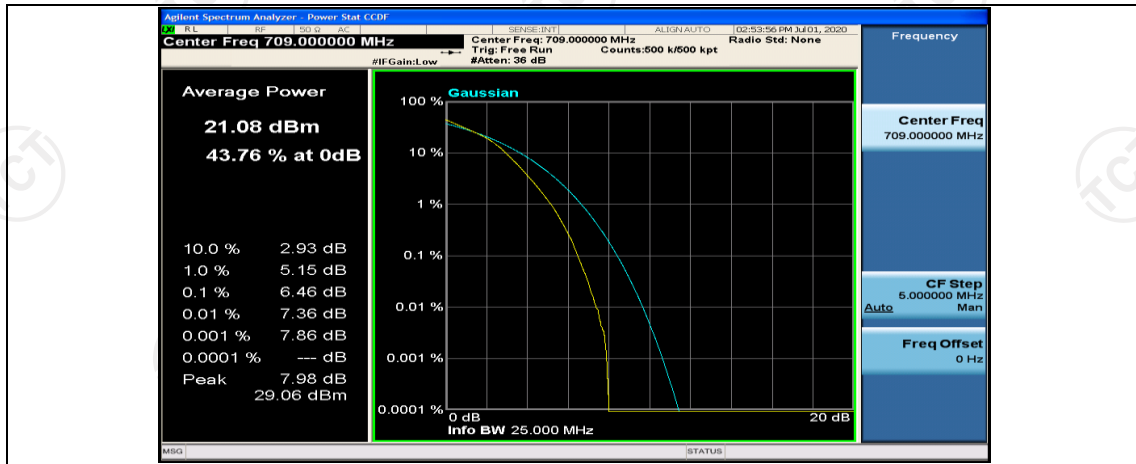
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#24

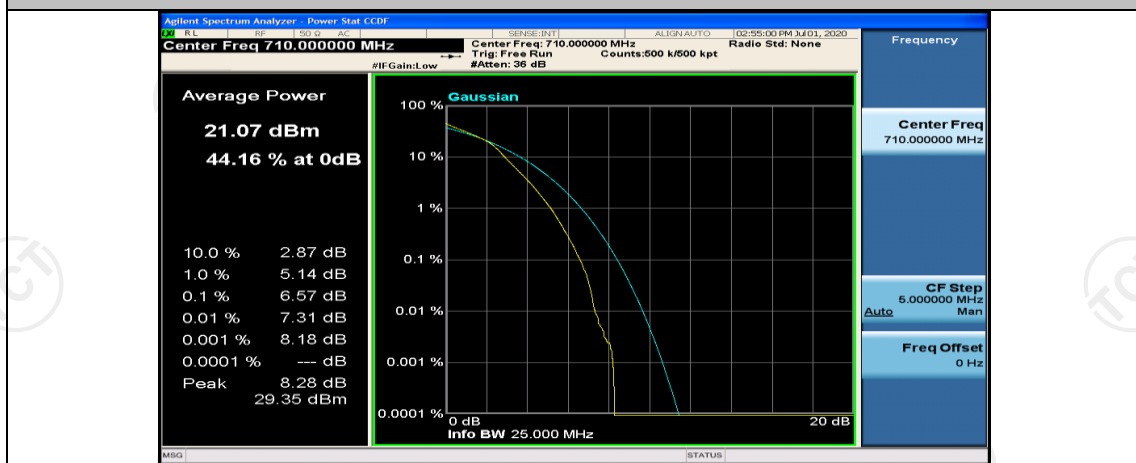
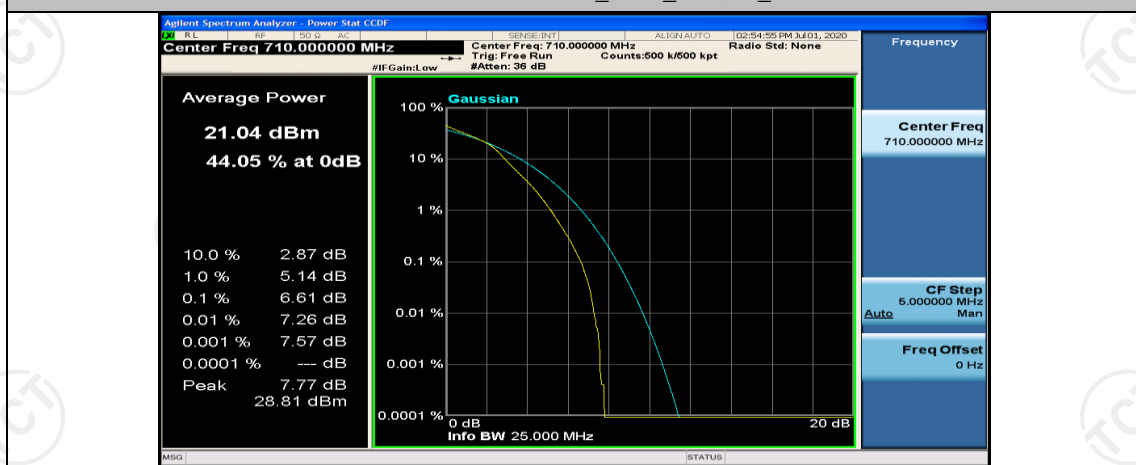
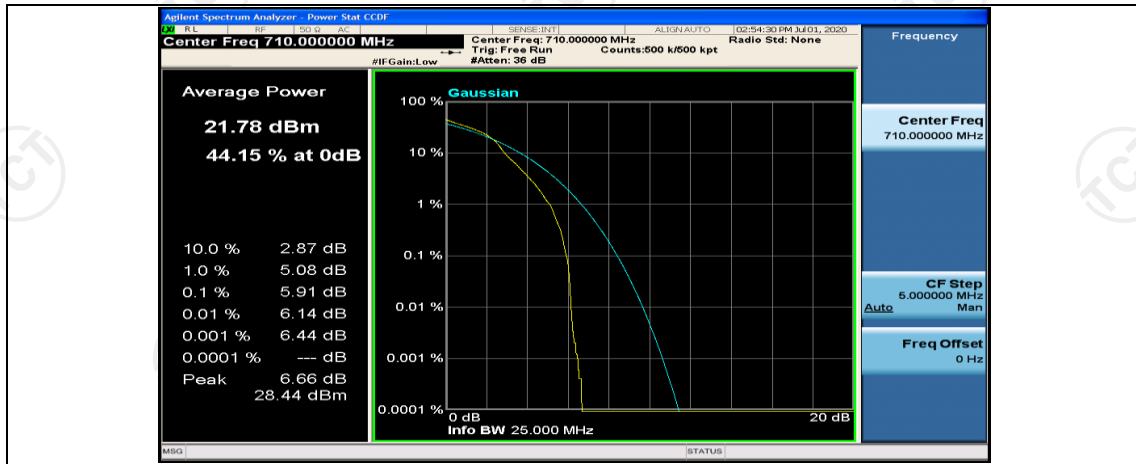


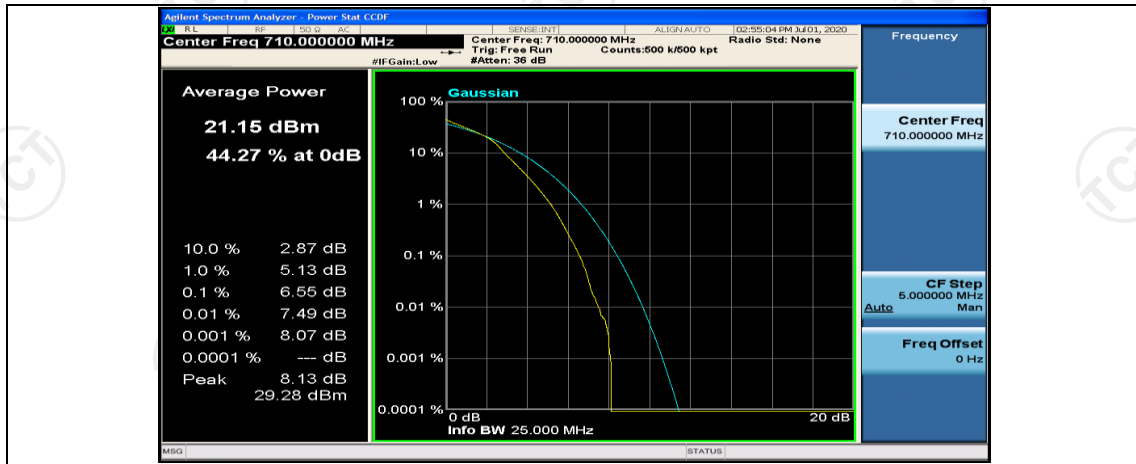




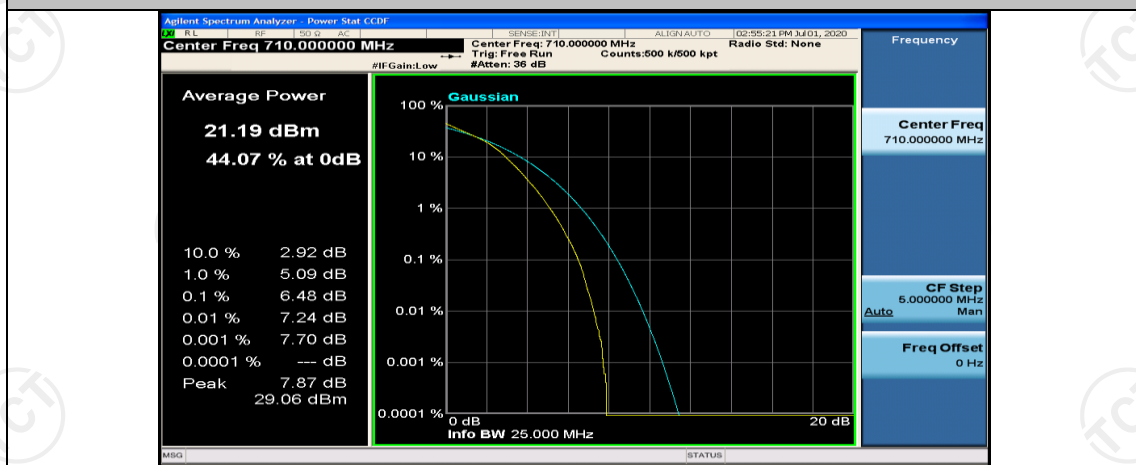




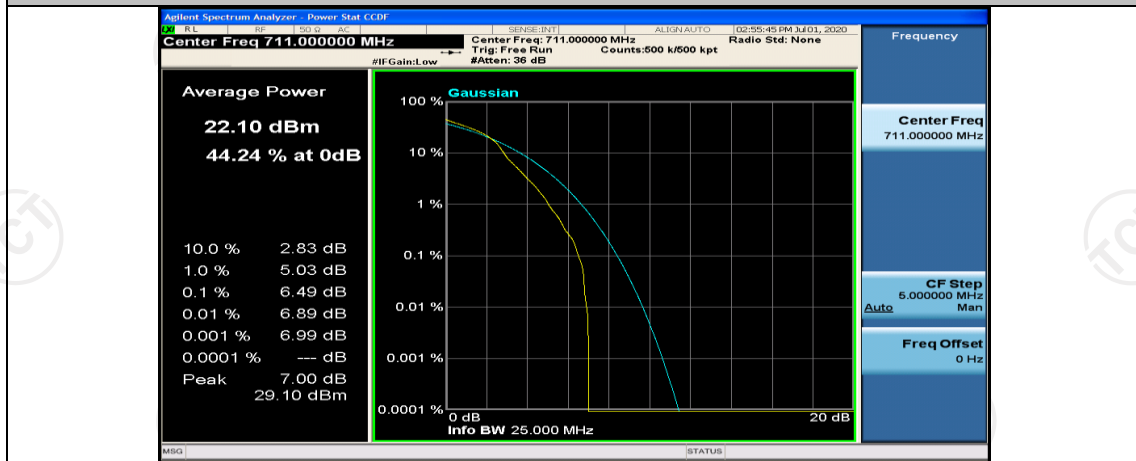




Channel Bandwidth: 10 MHz\_MCH\_16QAM\_50RB#0

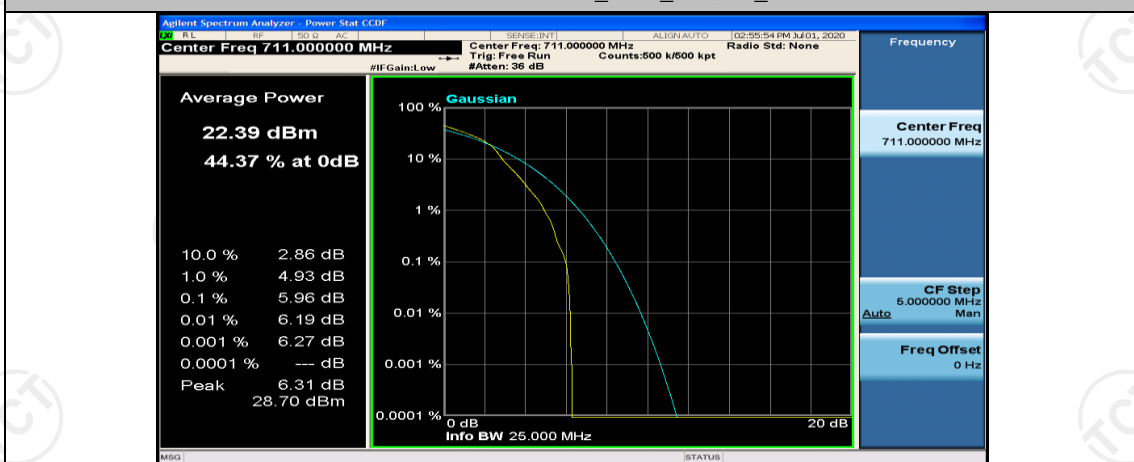


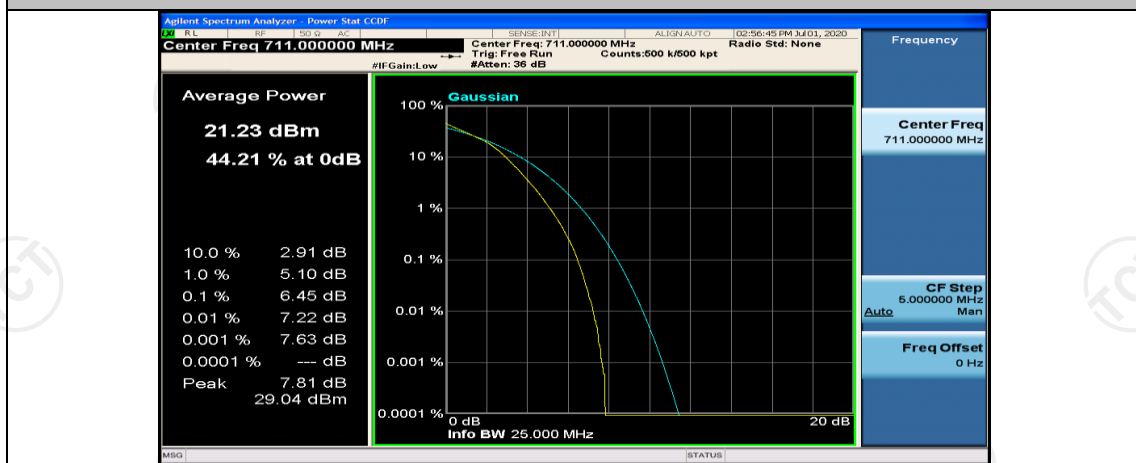
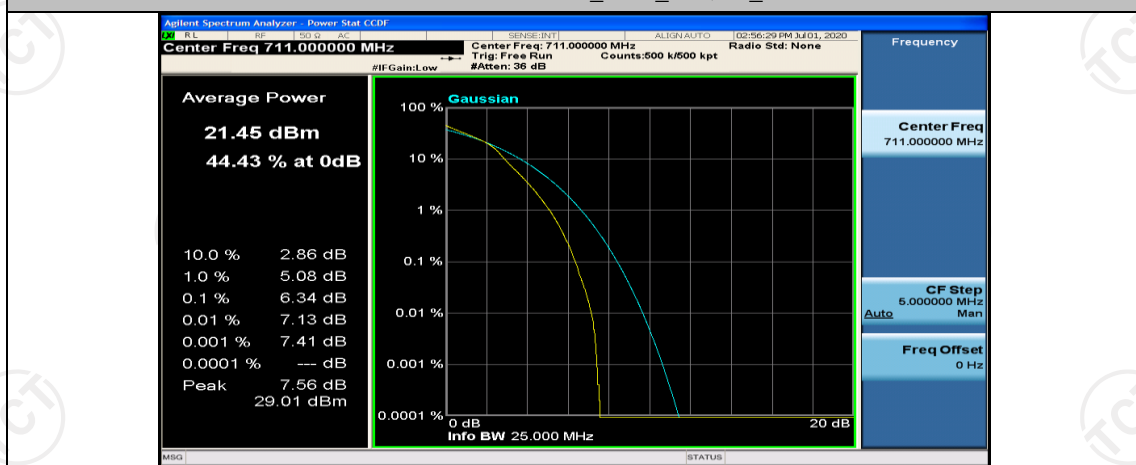
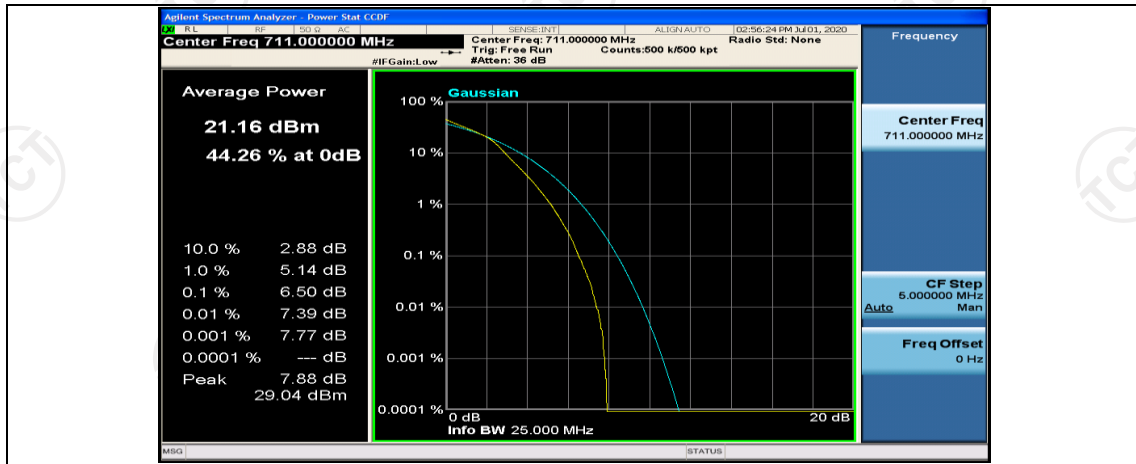
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0



Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#24







## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

#### Channel Bandwidth: 5 MHz

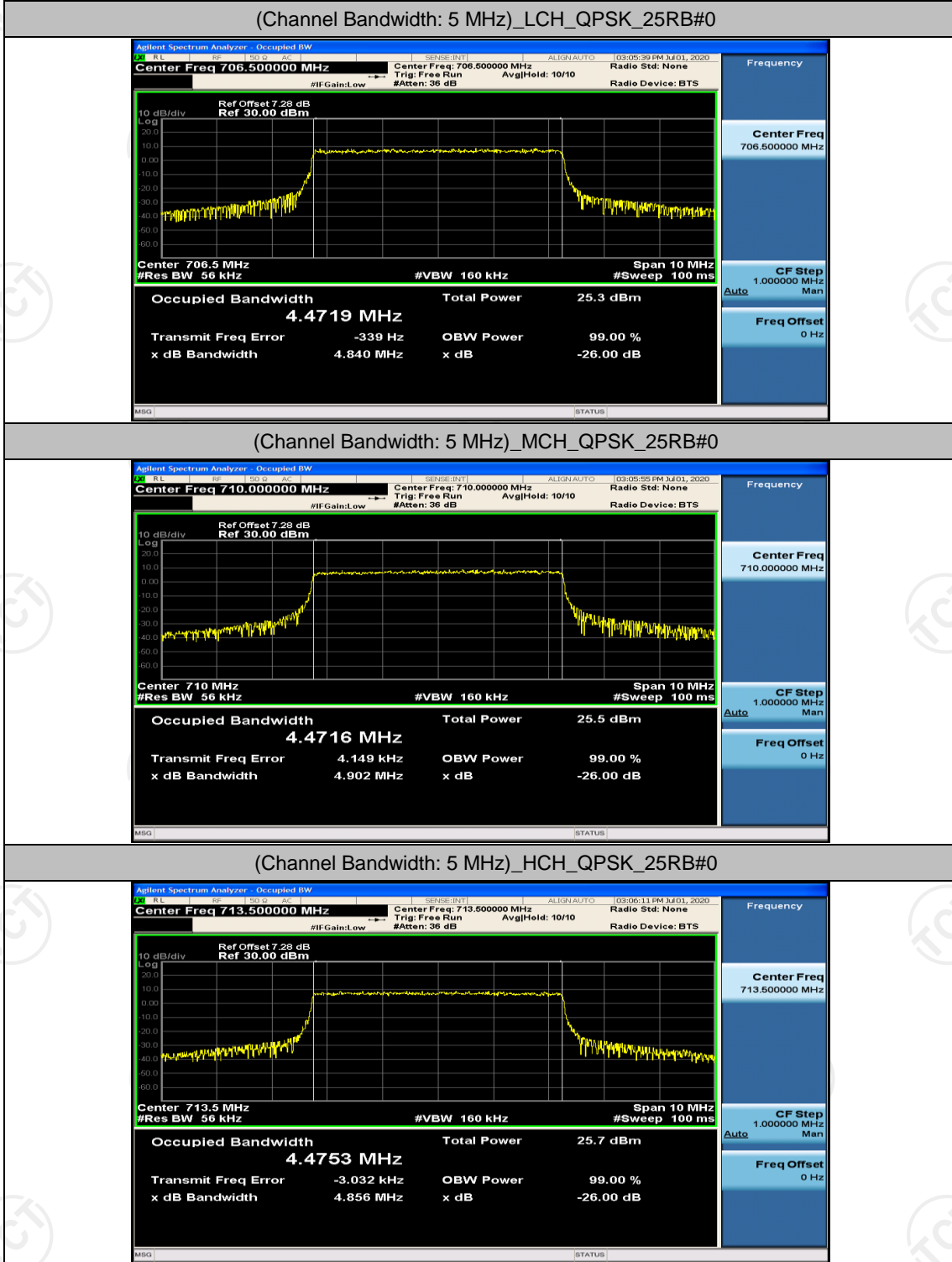
| Channel Bandwidth: 5 MHz |         |                  |        |                          |                      |         |
|--------------------------|---------|------------------|--------|--------------------------|----------------------|---------|
| Modulation               | Channel | RB Configuration |        | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|                          |         | Size             | Offset |                          |                      |         |
| QPSK                     | LCH     | 25               | 0      | 4.4719                   | 4.840                | PASS    |
|                          | MCH     | 25               | 0      | 4.4716                   | 4.902                | PASS    |
|                          | HCH     | 25               | 0      | 4.4753                   | 4.856                | PASS    |
| 16QAM                    | LCH     | 25               | 0      | 4.4731                   | 4.837                | PASS    |
|                          | MCH     | 25               | 0      | 4.4730                   | 4.898                | PASS    |
|                          | HCH     | 25               | 0      | 4.4686                   | 4.815                | PASS    |

#### Channel Bandwidth: 10 MHz

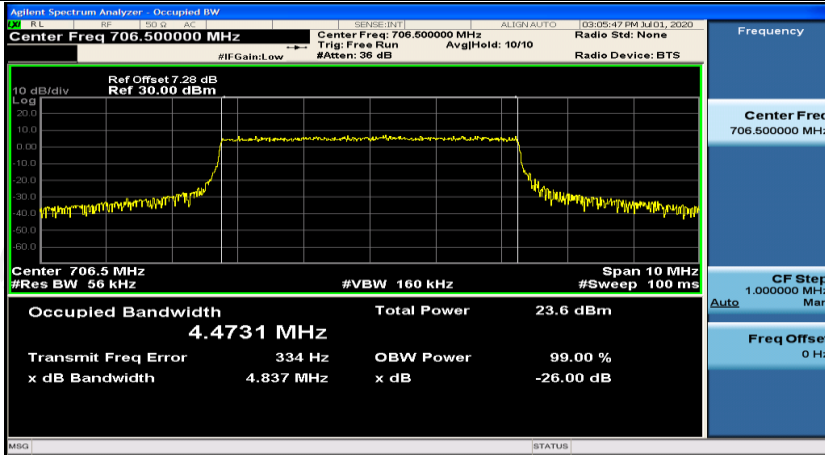
| Channel Bandwidth: 10 MHz |         |                  |        |                          |                      |         |
|---------------------------|---------|------------------|--------|--------------------------|----------------------|---------|
| Modulation                | Channel | RB Configuration |        | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|                           |         | Size             | Offset |                          |                      |         |
| QPSK                      | LCH     | 50               | 0      | 8.9443                   | 9.410                | PASS    |
|                           | MCH     | 50               | 0      | 8.9361                   | 9.522                | PASS    |
|                           | HCH     | 50               | 0      | 8.9224                   | 9.463                | PASS    |
| 16QAM                     | LCH     | 50               | 0      | 8.9249                   | 9.479                | PASS    |
|                           | MCH     | 50               | 0      | 8.9359                   | 9.529                | PASS    |
|                           | HCH     | 50               | 0      | 8.9308                   | 9.482                | PASS    |

## Test Graphs

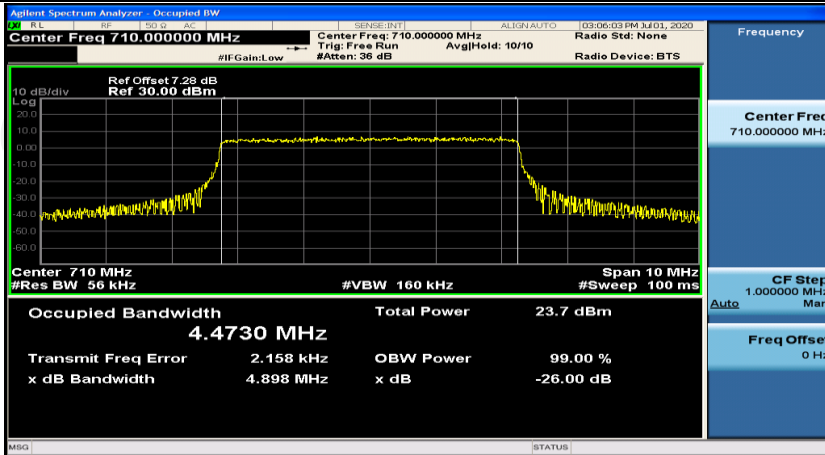
### Channel Bandwidth: 5 MHz



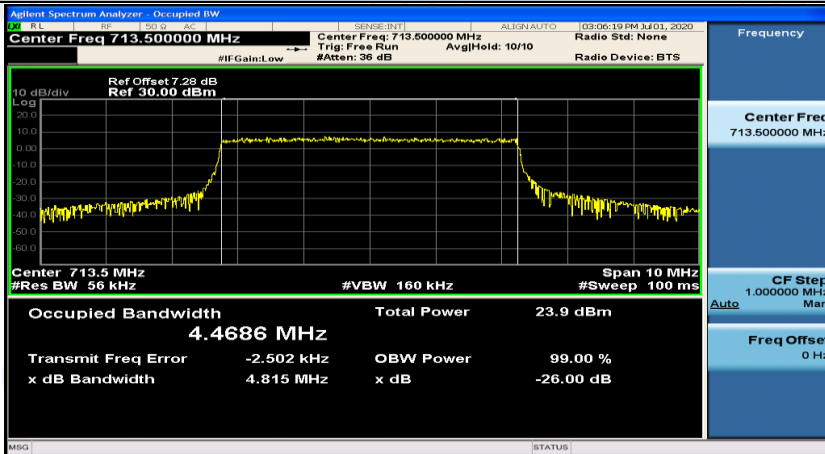
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_25RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_25RB#0



## Channel Bandwidth: 10 MHz

