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

## Test Result

## Channel Bandwidth: 1.4 MHz

| Channel Bandwidth: 1.4 MHz | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio (dB) | Limit (dB) | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 3.7 | <13 | PASS |
| | | 1 | 3 | 3.83 | <13 | PASS |
| | | 1 | 5 | 4.02 | <13 | PASS |
| | | 3 | 0 | 3.81 | <13 | PASS |
| | | 3 | 2 | 3.98 | <13 | PASS |
| | | 3 | 3 | 4.12 | <13 | PASS |
| | | 6 | 0 | 5.3 | <13 | PASS |
| | MCH | 1 | 0 | 4.89 | <13 | PASS |
| | | 1 | 3 | 4.76 | <13 | PASS |
| | | 1 | 5 | 4.64 | <13 | PASS |
| | | 3 | 0 | 5.17 | <13 | PASS |
| | | 3 | 2 | 5.08 | <13 | PASS |
| | | 3 | 3 | 5.04 | <13 | PASS |
| | | 6 | 0 | 5.98 | <13 | PASS |
| | HCH | 1 | 0 | 3.59 | <13 | PASS |
| | | 1 | 3 | 3.69 | <13 | PASS |
| | | 1 | 5 | 3.59 | <13 | PASS |
| | | 3 | 0 | 3.79 | <13 | PASS |
| | | 3 | 2 | 3.84 | <13 | PASS |
| | | 3 | 3 | 3.86 | <13 | PASS |
| | | 6 | 0 | 4.93 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 4.61 | <13 | PASS |
| | | 1 | 3 | 4.72 | <13 | PASS |
| | | 1 | 5 | 4.86 | <13 | PASS |
| | | 3 | 0 | 4.84 | <13 | PASS |
| | | 3 | 2 | 4.97 | <13 | PASS |
| | | 3 | 3 | 5.05 | <13 | PASS |
| | | 6 | 0 | 6.17 | <13 | PASS |
| | MCH | 1 | 0 | 5.55 | <13 | PASS |
| | | 1 | 3 | 5.48 | <13 | PASS |
| | | 1 | 5 | 5.31 | <13 | PASS |
| | | 3 | 0 | 6.05 | <13 | PASS |
| | | 3 | 2 | 5.97 | <13 | PASS |
| | | 3 | 3 | 5.96 | <13 | PASS |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 6 | 0 | 6.92 | <13 | PASS |
| | HCH | 1 | 0 | 4.35 | <13 | PASS |
| | | 1 | 3 | 4.29 | <13 | PASS |
| | | 1 | 5 | 4.17 | <13 | PASS |
| | | 3 | 0 | 4.58 | <13 | PASS |
| | | 3 | 2 | 4.55 | <13 | PASS |
| | | 3 | 3 | 4.56 | <13 | PASS |
| | | 6 | 0 | 5.76 | <13 | PASS |

## Channel Bandwidth: 3 MHz

| Channel Bandwidth: 3 MHz | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 3.67 | <13 | PASS |
| | | 1 | 7 | 4.13 | <13 | PASS |
| | | 1 | 14 | 4.43 | <13 | PASS |
| | | 8 | 0 | 5.09 | <13 | PASS |
| | | 8 | 4 | 5.32 | <13 | PASS |
| | | 8 | 7 | 5.44 | <13 | PASS |
| | | 15 | 0 | 5.48 | <13 | PASS |
| | MCH | 1 | 0 | 5.02 | <13 | PASS |
| | | 1 | 7 | 4.88 | <13 | PASS |
| | | 1 | 14 | 4.46 | <13 | PASS |
| | | 8 | 0 | 5.98 | <13 | PASS |
| | | 8 | 4 | 5.93 | <13 | PASS |
| | | 8 | 7 | 5.82 | <13 | PASS |
| | | 15 | 0 | 5.95 | <13 | PASS |
| | HCH | 1 | 0 | 3.2 | <13 | PASS |
| | | 1 | 7 | 3.53 | <13 | PASS |
| | | 1 | 14 | 3.41 | <13 | PASS |
| | | 8 | 0 | 4.64 | <13 | PASS |
| | | 8 | 4 | 4.72 | <13 | PASS |
| | | 8 | 7 | 4.7 | <13 | PASS |
| | | 15 | 0 | 5.06 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 4.43 | <13 | PASS |
| | | 1 | 7 | 4.84 | <13 | PASS |
| | | 1 | 14 | 5.09 | <13 | PASS |
| | | 8 | 0 | 5.89 | <13 | PASS |
| | | 8 | 4 | 6.11 | <13 | PASS |
| | | 8 | 7 | 6.25 | <13 | PASS |
| | | 15 | 0 | 6.38 | <13 | PASS |
| | MCH | 1 | 0 | 5.62 | <13 | PASS |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 1 | 7 | 5.53 | <13 | PASS |
| | | 1 | 14 | 5.15 | <13 | PASS |
| | | 8 | 0 | 6.75 | <13 | PASS |
| | | 8 | 4 | 6.73 | <13 | PASS |
| | | 8 | 7 | 6.58 | <13 | PASS |
| | | 15 | 0 | 6.93 | <13 | PASS |
| | HCH | 1 | 0 | 4.14 | <13 | PASS |
| | | 1 | 7 | 4.36 | <13 | PASS |
| | | 1 | 14 | 4.19 | <13 | PASS |
| | | 8 | 0 | 5.43 | <13 | PASS |
| | | 8 | 4 | 5.56 | <13 | PASS |
| | | 8 | 7 | 5.58 | <13 | PASS |
| | | 15 | 0 | 5.84 | <13 | PASS |

## 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 | 3.58 | <13 | PASS |
| | | 1 | 12 | 4.14 | <13 | PASS |
| | | 1 | 24 | 4.53 | <13 | PASS |
| | | 12 | 0 | 5.11 | <13 | PASS |
| | | 12 | 6 | 5.35 | <13 | PASS |
| | | 12 | 13 | 5.62 | <13 | PASS |
| | | 25 | 0 | 5.58 | <13 | PASS |
| | MCH | 1 | 0 | 4.67 | <13 | PASS |
| | | 1 | 12 | 4.72 | <13 | PASS |
| | | 1 | 24 | 3.93 | <13 | PASS |
| | | 12 | 0 | 5.91 | <13 | PASS |
| | | 12 | 6 | 5.83 | <13 | PASS |
| | | 12 | 13 | 5.57 | <13 | PASS |
| | | 25 | 0 | 5.88 | <13 | PASS |
| | HCH | 1 | 0 | 3.19 | <13 | PASS |
| | | 1 | 12 | 3.15 | <13 | PASS |
| | | 1 | 24 | 3.49 | <13 | PASS |
| | | 12 | 0 | 4.32 | <13 | PASS |
| | | 12 | 6 | 4.35 | <13 | PASS |
| | | 12 | 13 | 4.61 | <13 | PASS |
| | | 25 | 0 | 4.89 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 4.45 | <13 | PASS |
| | | 1 | 12 | 4.93 | <13 | PASS |
| | | 1 | 24 | 5.29 | <13 | PASS |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 12 | 0 | 5.98 | <13 | PASS |
| | | 12 | 6 | 6.17 | <13 | PASS |
| | | 12 | 13 | 6.48 | <13 | PASS |
| | | 25 | 0 | 6.43 | <13 | PASS |
| | MCH | 1 | 0 | 5.39 | <13 | PASS |
| | | 1 | 12 | 5.42 | <13 | PASS |
| | | 1 | 24 | 4.76 | <13 | PASS |
| | | 12 | 0 | 6.78 | <13 | PASS |
| | | 12 | 6 | 6.71 | <13 | PASS |
| | | 12 | 13 | 6.45 | <13 | PASS |
| | | 25 | 0 | 6.68 | <13 | PASS |
| | HCH | 1 | 0 | 4.08 | <13 | PASS |
| | | 1 | 12 | 4.01 | <13 | PASS |
| | | 1 | 24 | 4.12 | <13 | PASS |
| | | 12 | 0 | 5.28 | <13 | PASS |
| | | 12 | 6 | 5.24 | <13 | PASS |
| | | 12 | 13 | 5.51 | <13 | PASS |
| | | 25 | 0 | 5.72 | <13 | PASS |

## Channel Bandwidth: 10 MHz

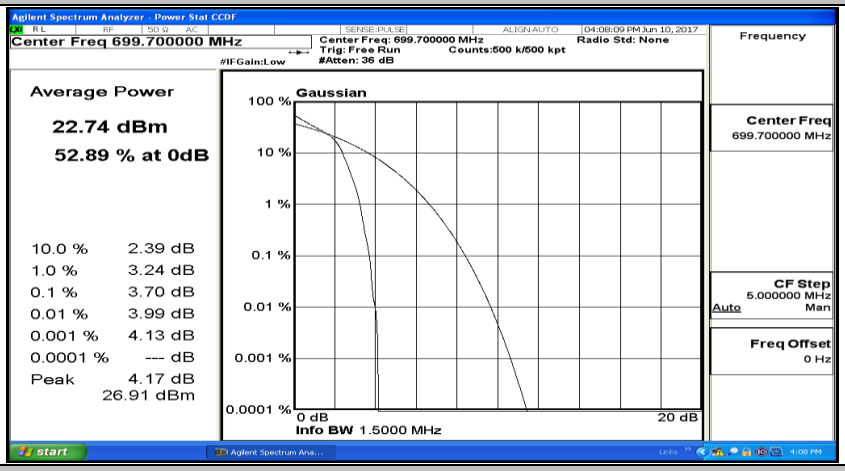
| Channel Bandwidth: 10 MHz | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 1 | 0 | 3.68 | <13 | PASS |
| | | 1 | 24 | 4.67 | <13 | PASS |
| | | 1 | 49 | 4.48 | <13 | PASS |
| | | 25 | 0 | 5.42 | <13 | PASS |
| | | 25 | 12 | 5.78 | <13 | PASS |
| | | 25 | 25 | 5.79 | <13 | PASS |
| | | 50 | 0 | 5.58 | <13 | PASS |
| | MCH | 1 | 0 | 4.53 | <13 | PASS |
| | | 1 | 24 | 4.85 | <13 | PASS |
| | | 1 | 49 | 3.1 | <13 | PASS |
| | | 25 | 0 | 5.81 | <13 | PASS |
| | | 25 | 12 | 5.8 | <13 | PASS |
| | | 25 | 25 | 5.27 | <13 | PASS |
| | | 50 | 0 | 5.6 | <13 | PASS |
| | HCH | 1 | 0 | 4.8 | <13 | PASS |
| | | 1 | 24 | 3.29 | <13 | PASS |
| | | 1 | 49 | 3.58 | <13 | PASS |
| | | 25 | 0 | 5.53 | <13 | PASS |
| | | 25 | 12 | 4.86 | <13 | PASS |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 25 | 25 | 4.61 | <13 | PASS |
| | | 50 | 0 | 5.47 | <13 | PASS |
| 16QAM | LCH | 1 | 0 | 4.48 | <13 | PASS |
| | | 1 | 24 | 5.31 | <13 | PASS |
| | | 1 | 49 | 5.22 | <13 | PASS |
| | | 25 | 0 | 6.34 | <13 | PASS |
| | | 25 | 12 | 6.66 | <13 | PASS |
| | | 25 | 25 | 6.74 | <13 | PASS |
| | | 50 | 0 | 6.47 | <13 | PASS |
| | MCH | 1 | 0 | 5.25 | <13 | PASS |
| | | 1 | 24 | 5.49 | <13 | PASS |
| | | 1 | 49 | 4.01 | <13 | PASS |
| | | 25 | 0 | 6.66 | <13 | PASS |
| | | 25 | 12 | 6.65 | <13 | PASS |
| | | 25 | 25 | 6.13 | <13 | PASS |
| | | 50 | 0 | 6.4 | <13 | PASS |
| | HCH | 1 | 0 | 5.49 | <13 | PASS |
| | | 1 | 24 | 4.23 | <13 | PASS |
| | | 1 | 49 | 4.36 | <13 | PASS |
| | | 25 | 0 | 6.41 | <13 | PASS |
| | | 25 | 12 | 5.7 | <13 | PASS |
| | | 25 | 25 | 5.46 | <13 | PASS |
| | | 50 | 0 | 6.19 | <13 | PASS |

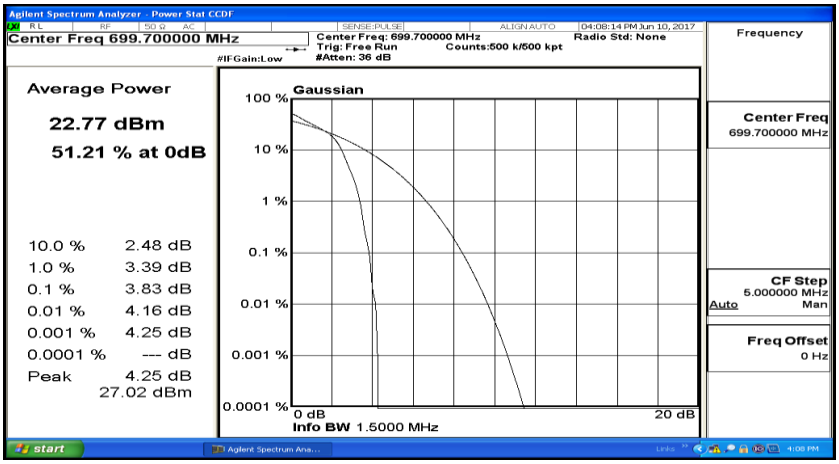
## Test Graphs

## Channel Bandwidth: 1.4 MHz

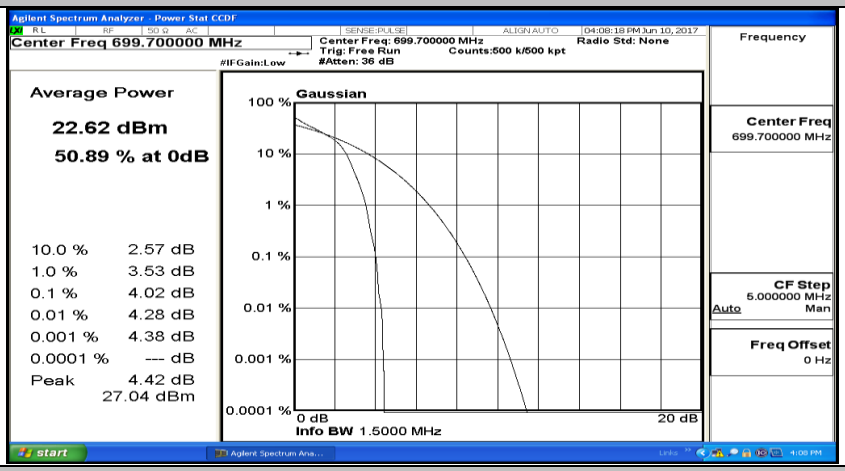
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



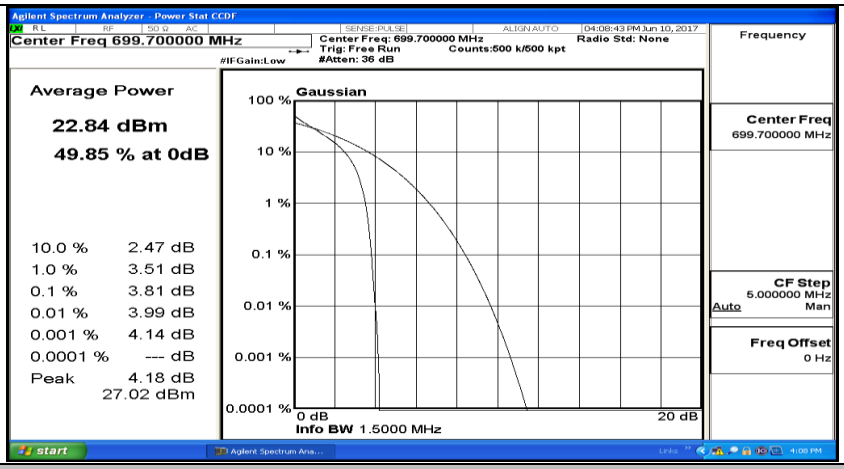

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3



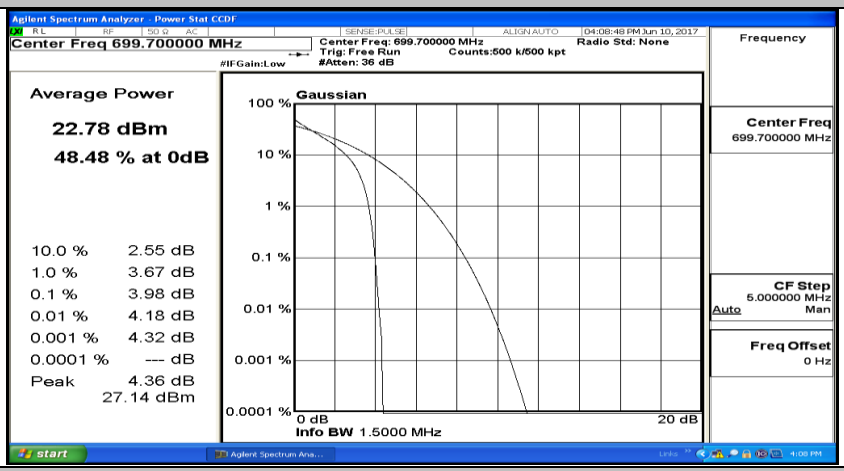

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



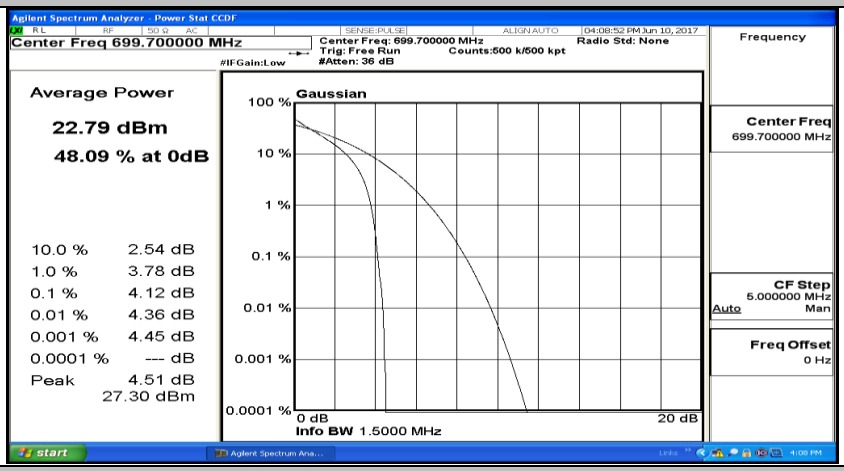

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0



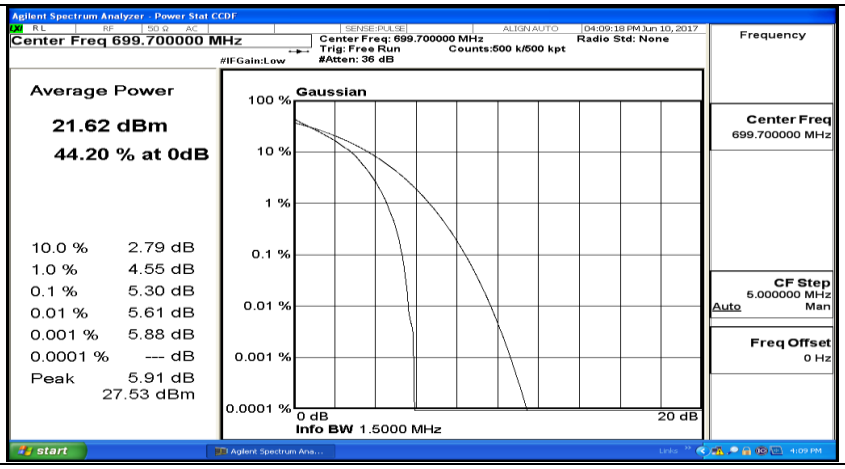

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2



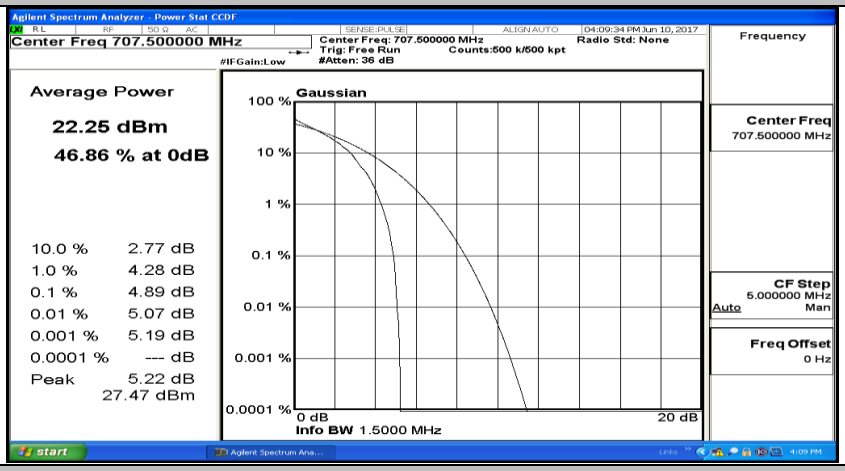

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3



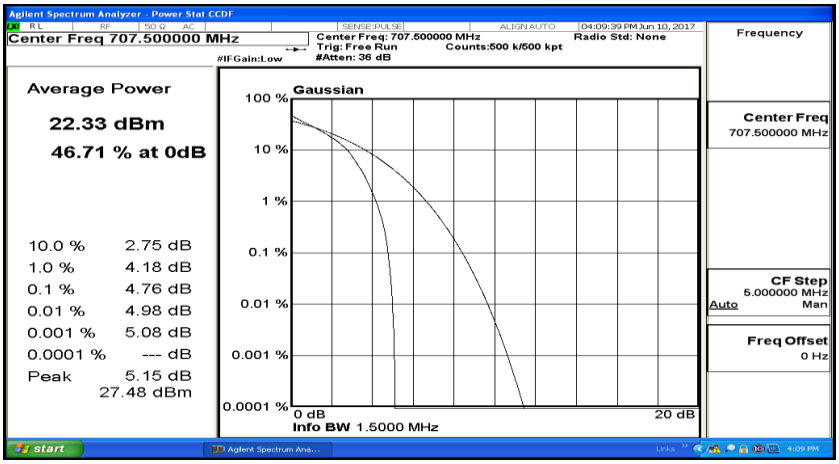

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



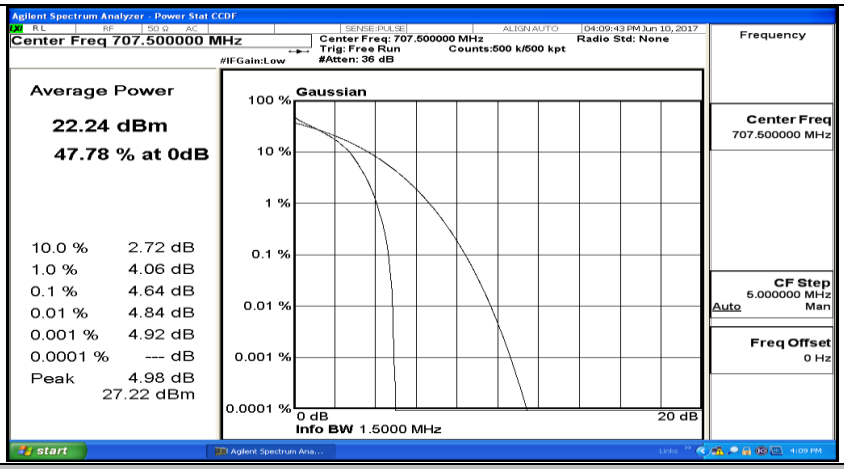

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



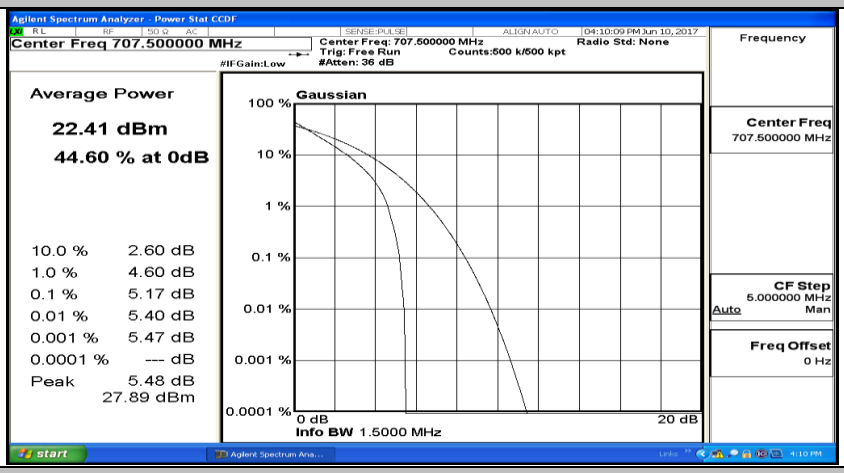

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



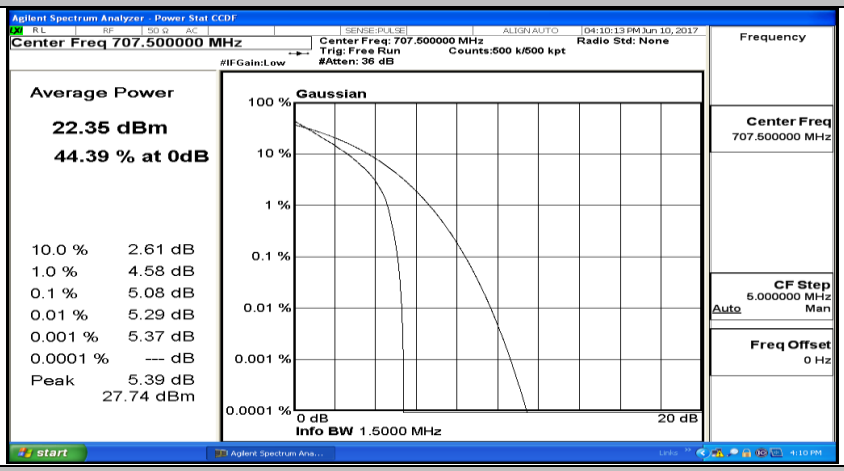

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



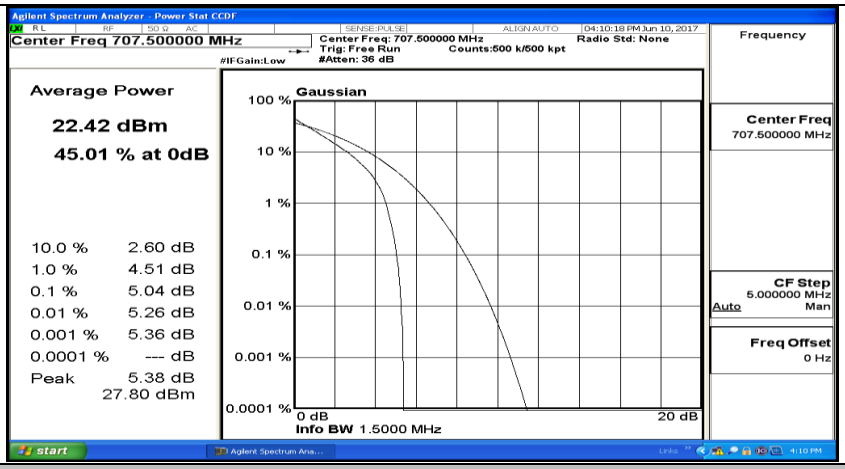

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0



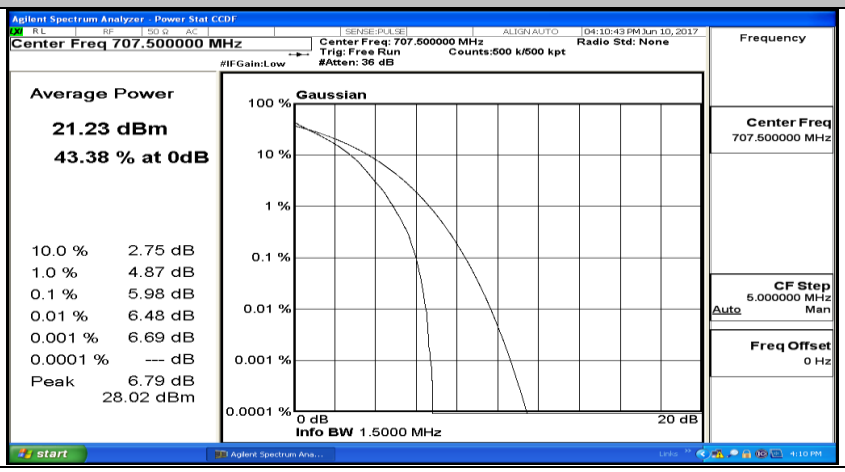

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2



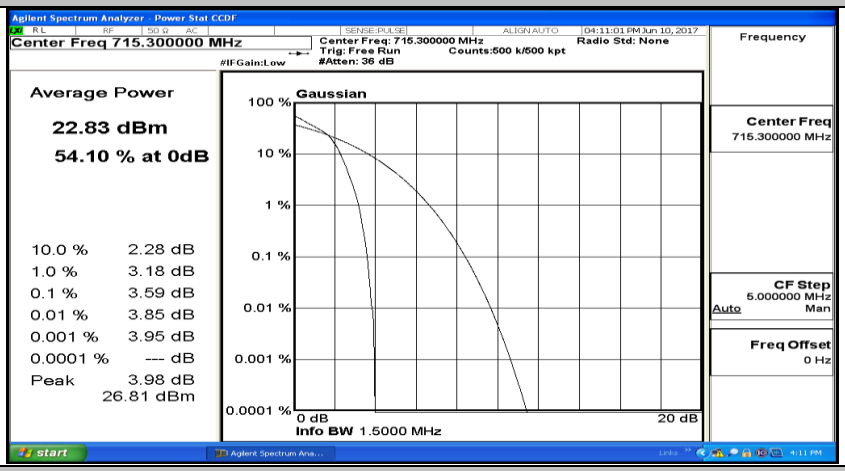

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3



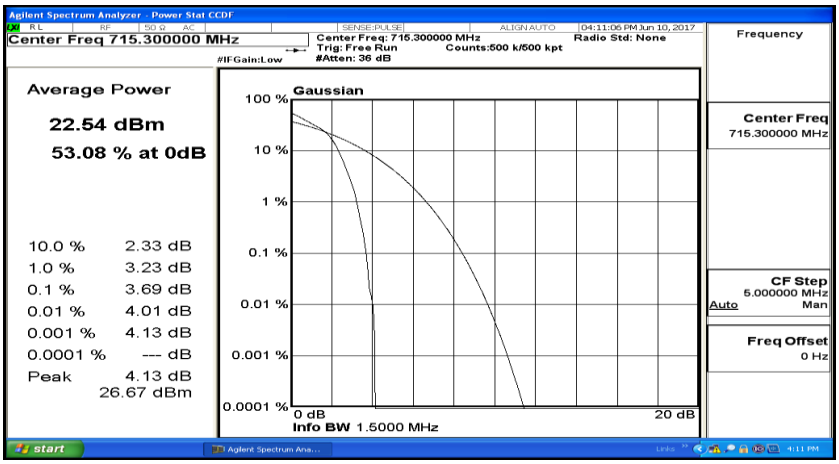

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0



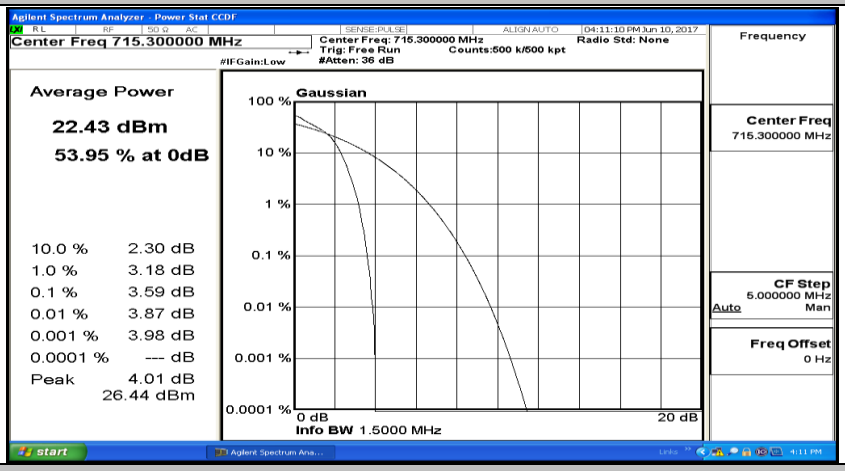

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



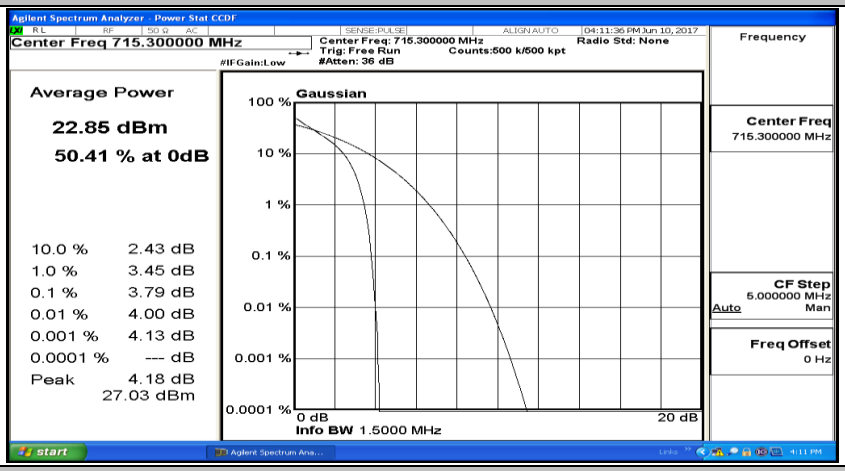

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



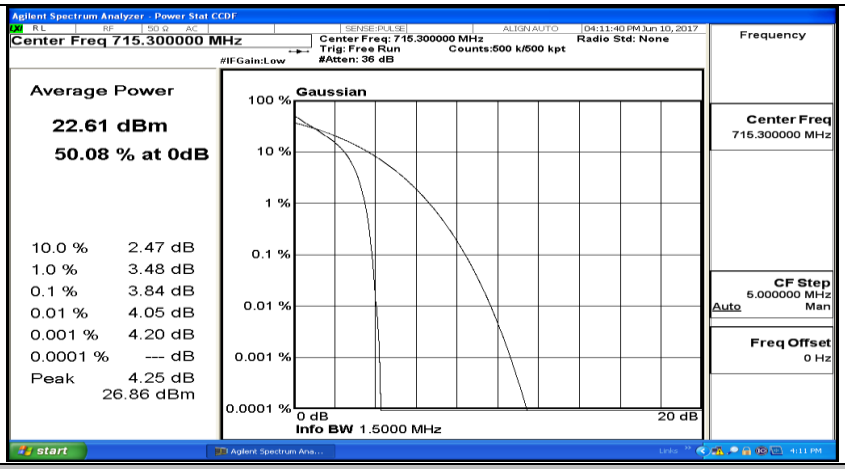

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



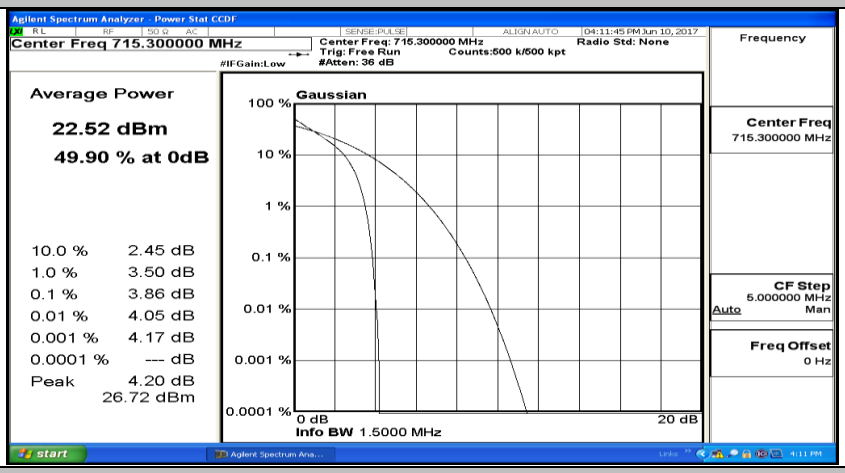

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



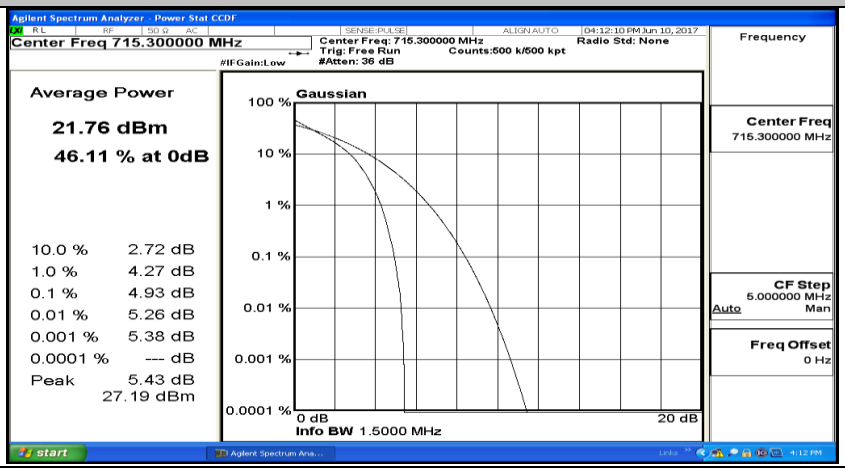

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



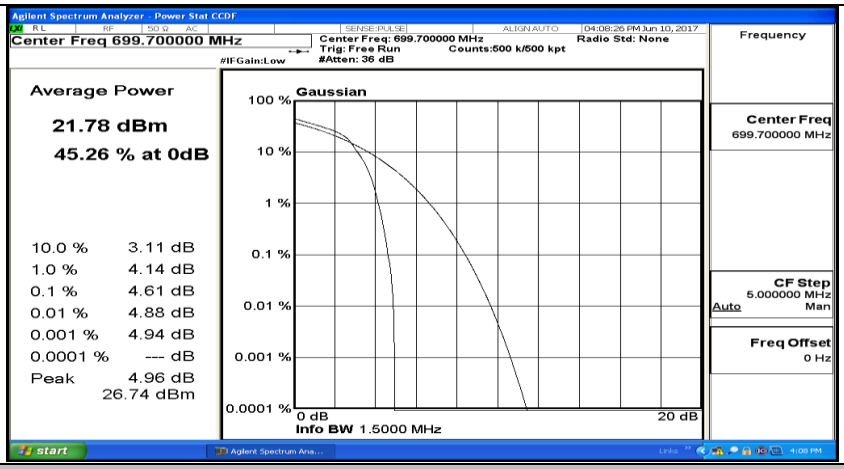

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



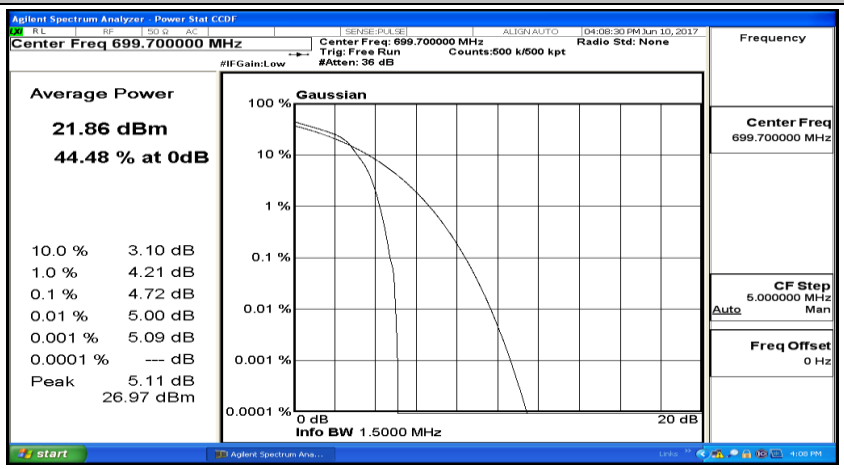

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



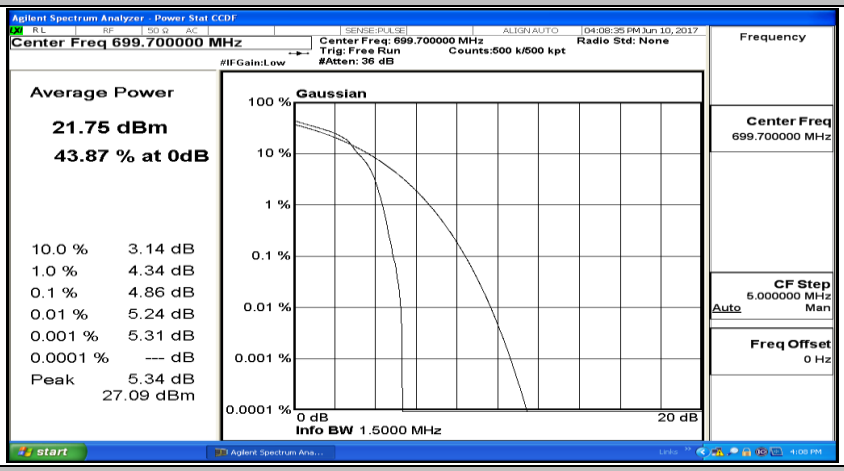

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



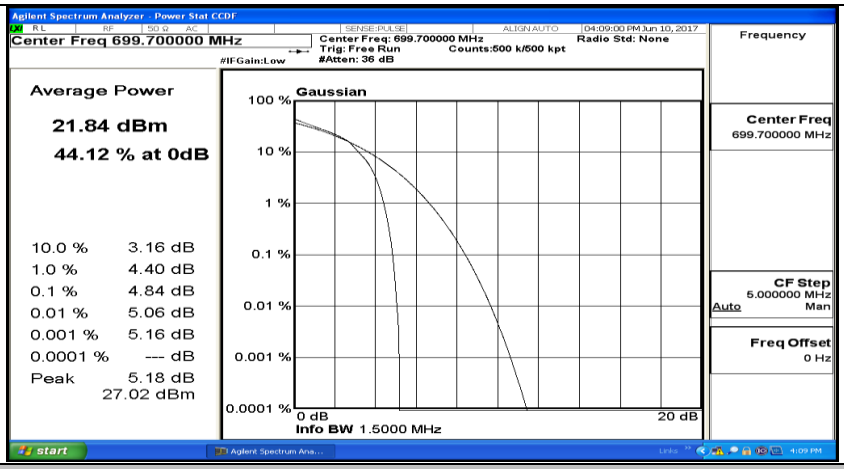

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



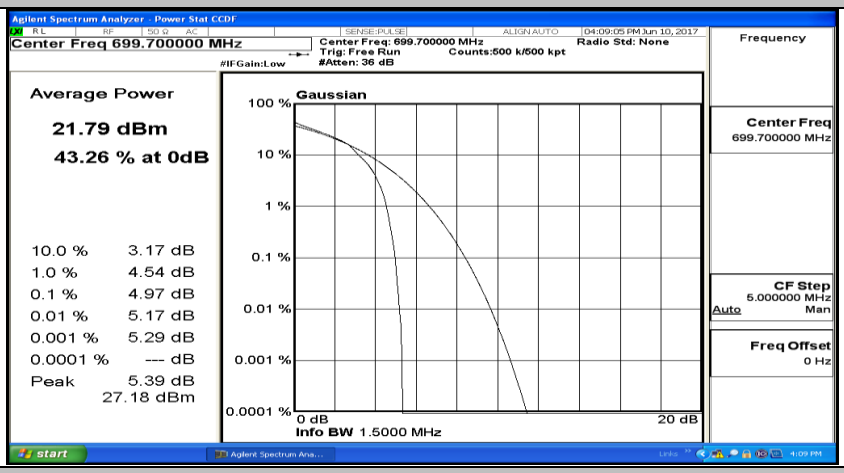

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



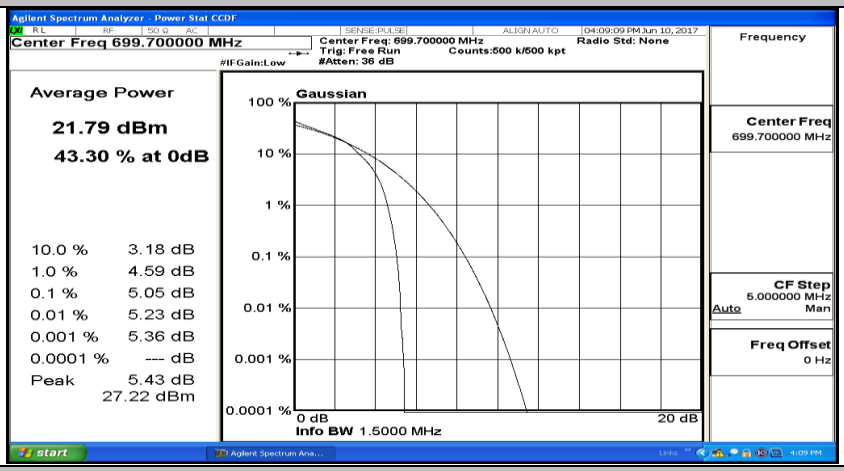

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0



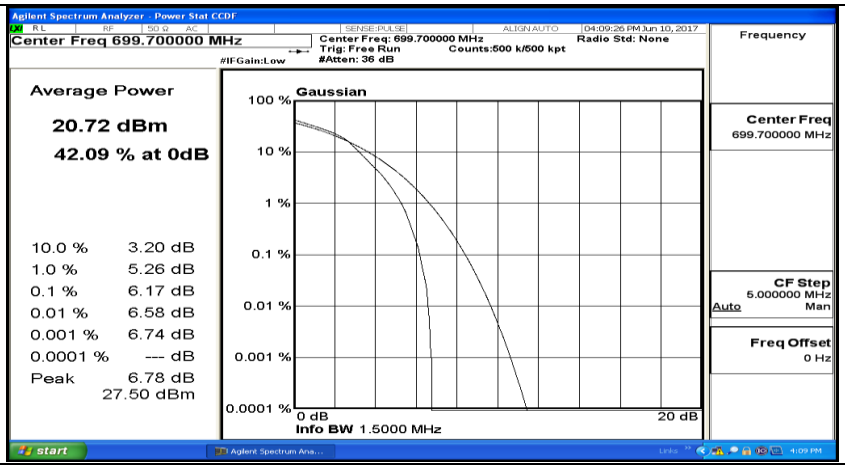

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2



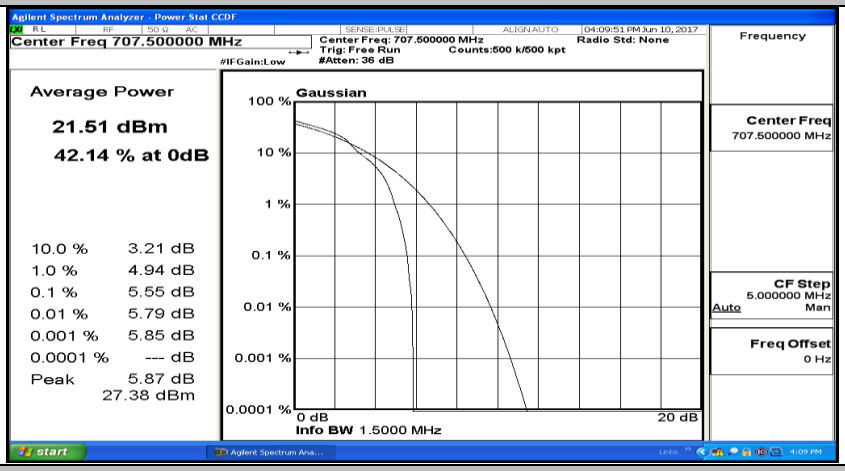

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3



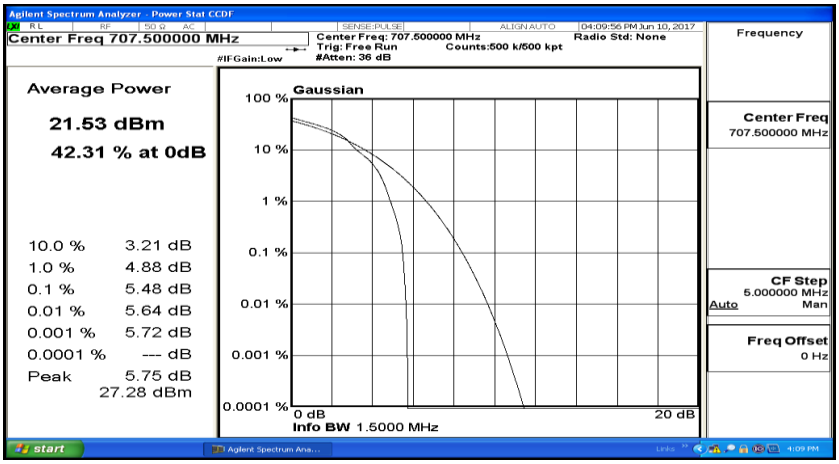

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0



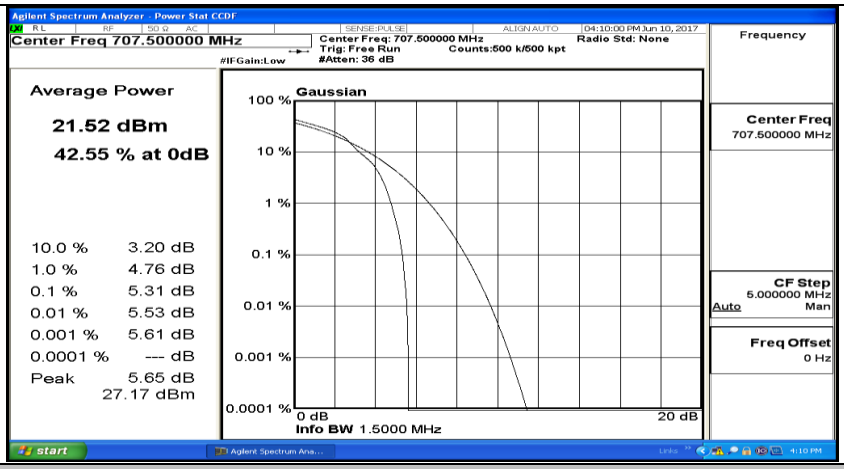

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



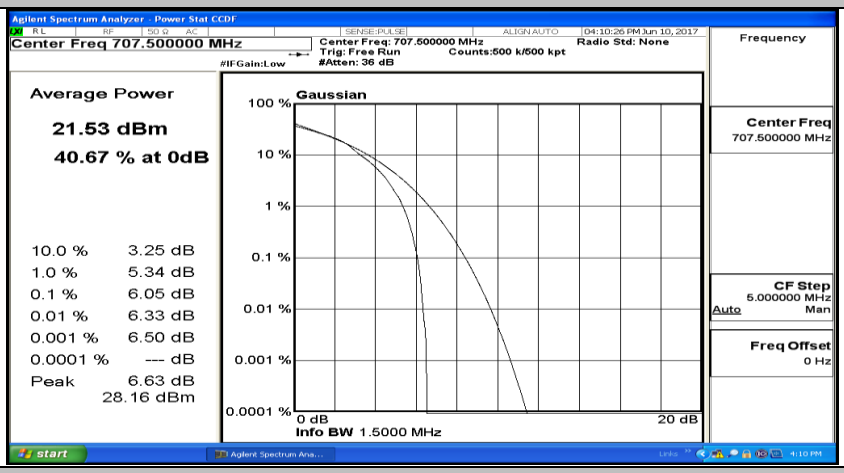

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



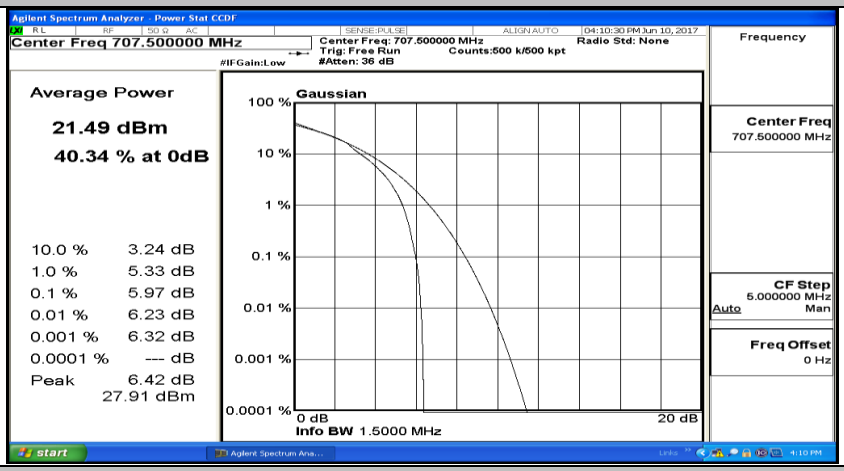

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



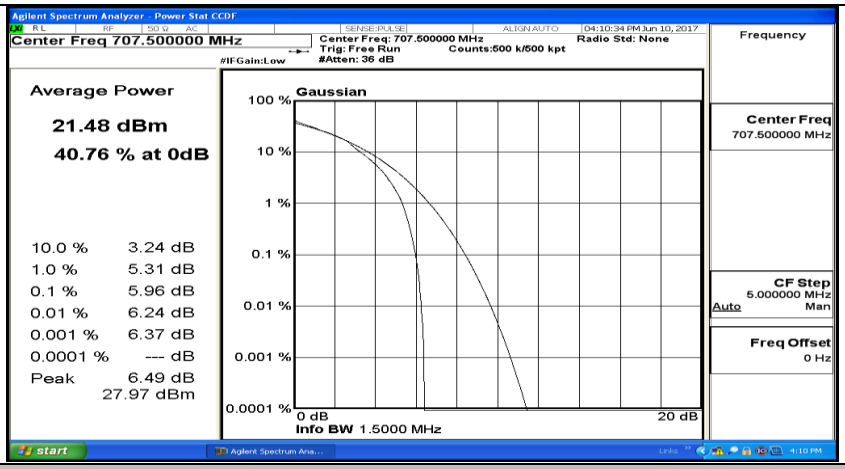

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#0



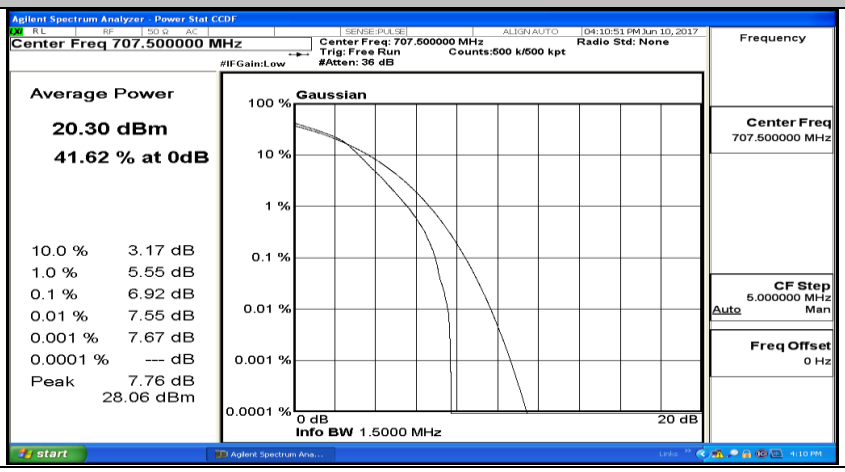

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2



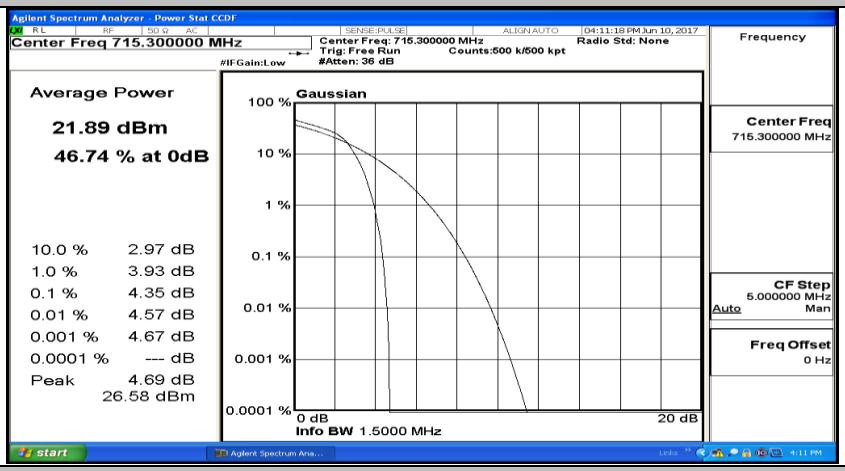

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#3



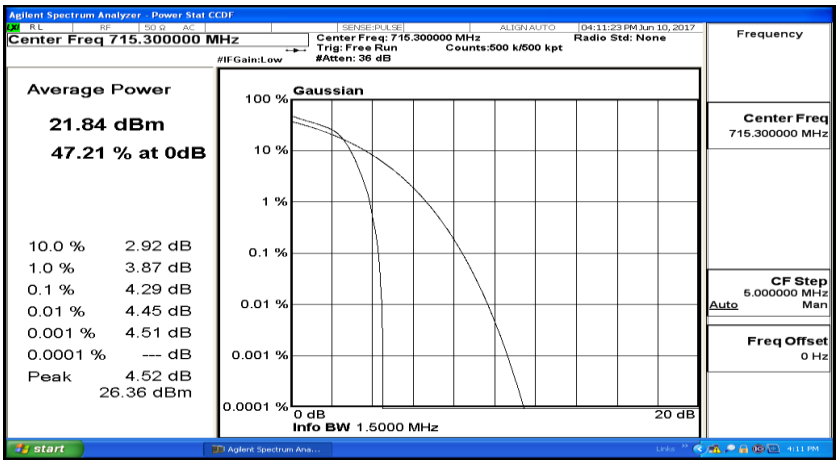

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0



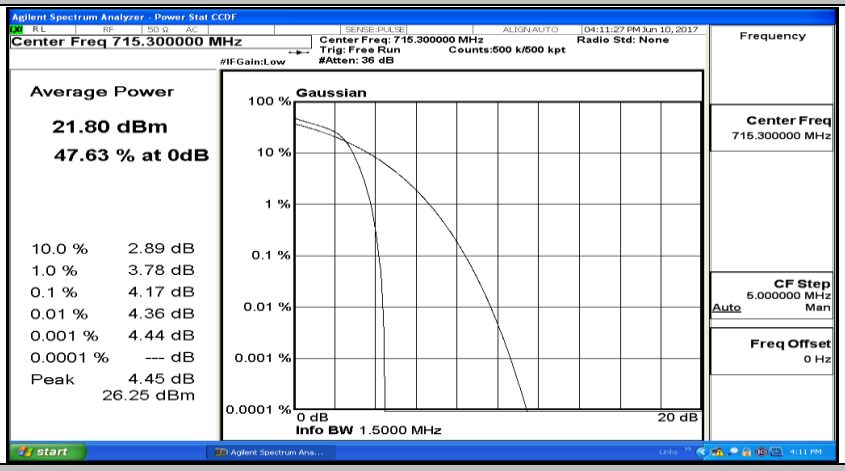

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



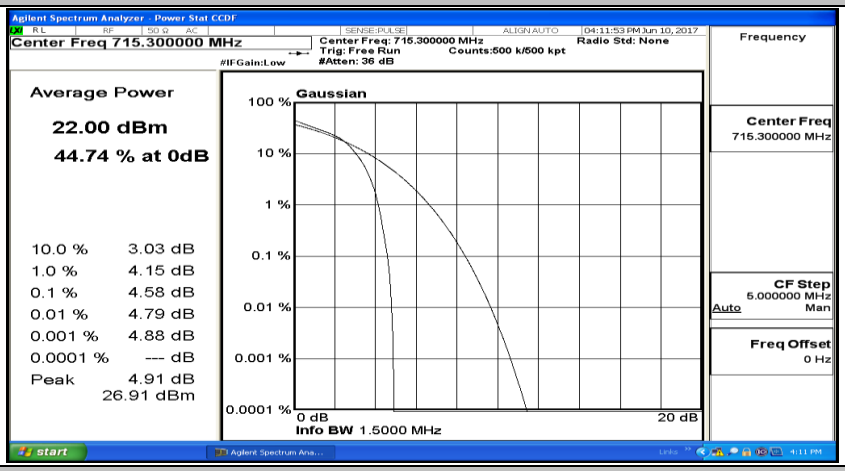

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



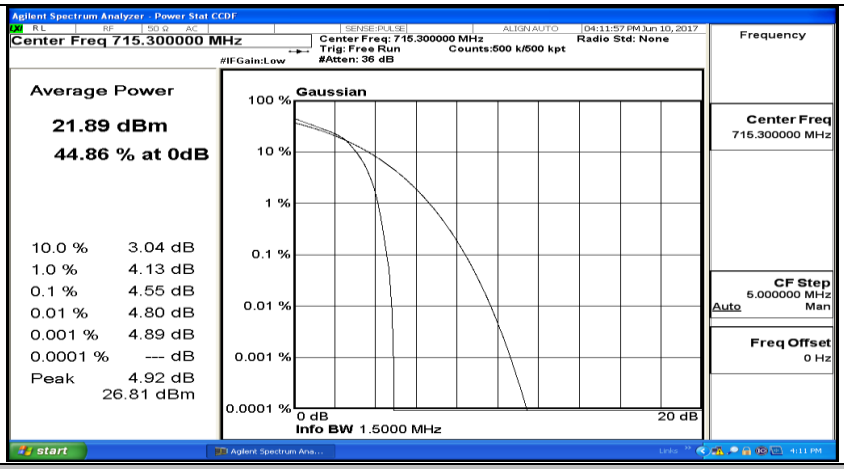

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



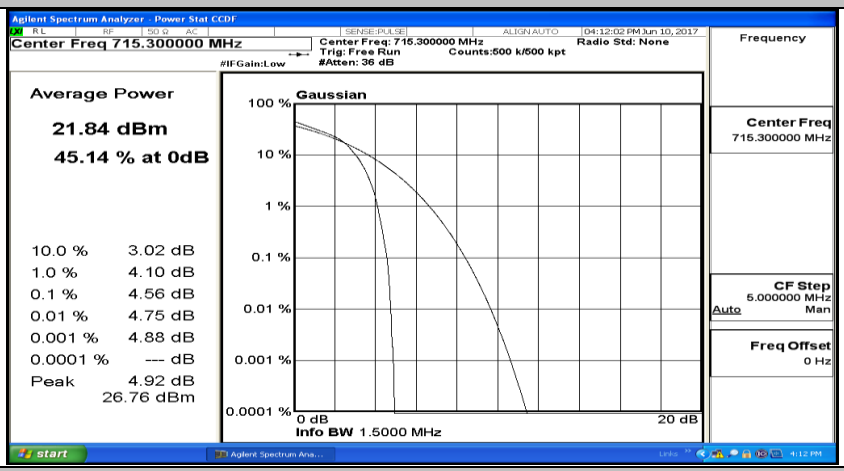

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



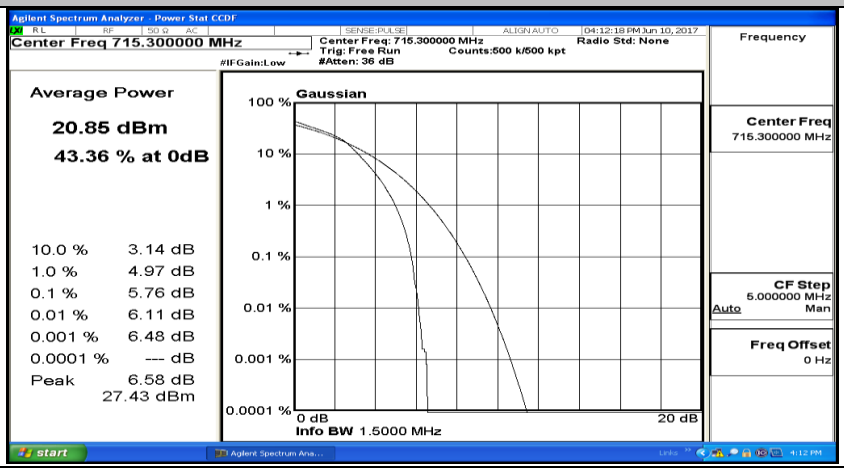

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2




(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

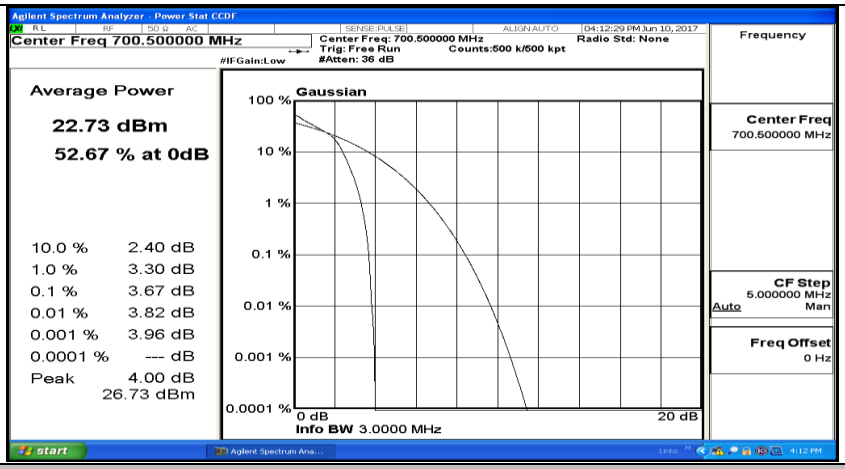



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

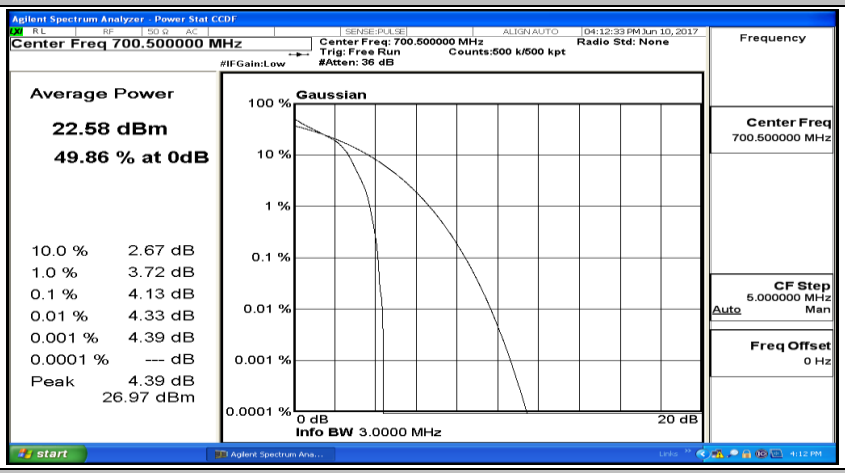



## Channel Bandwidth: 3 MHz

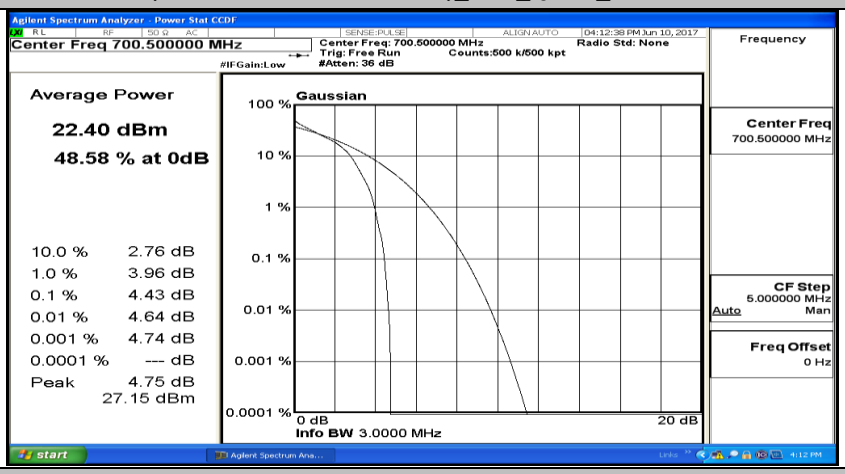
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



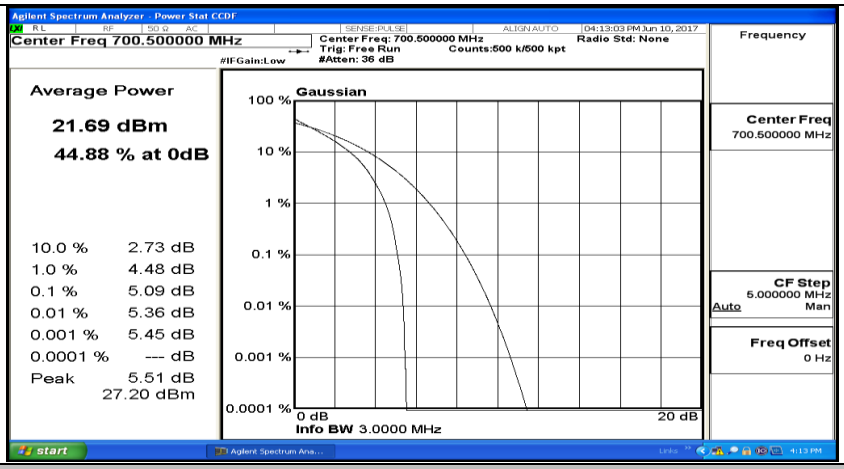

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



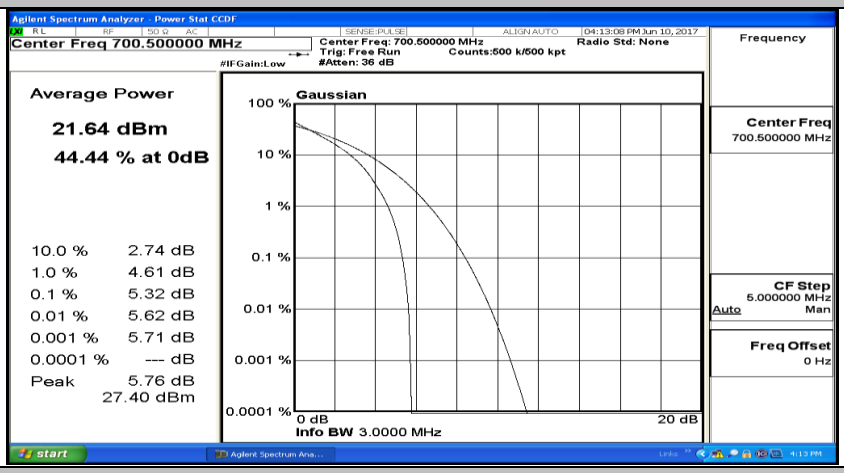

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



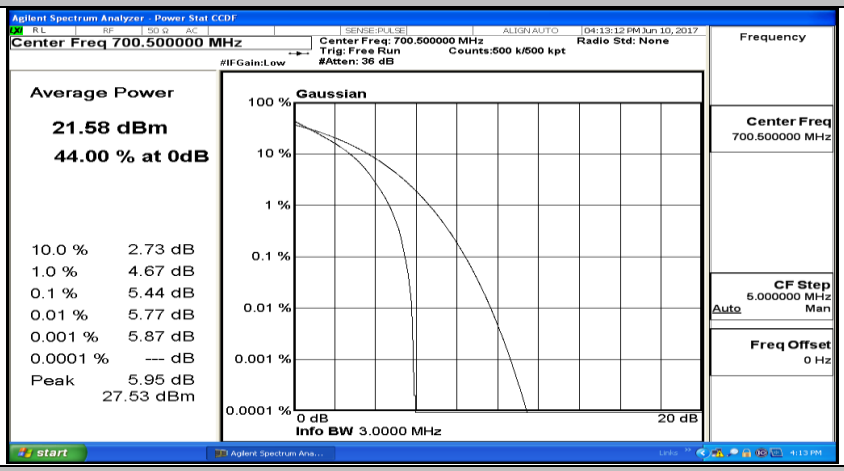

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0



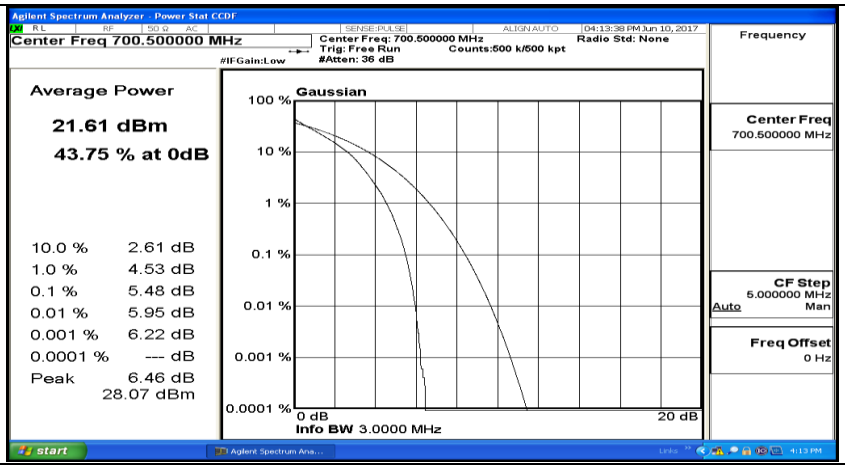

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4



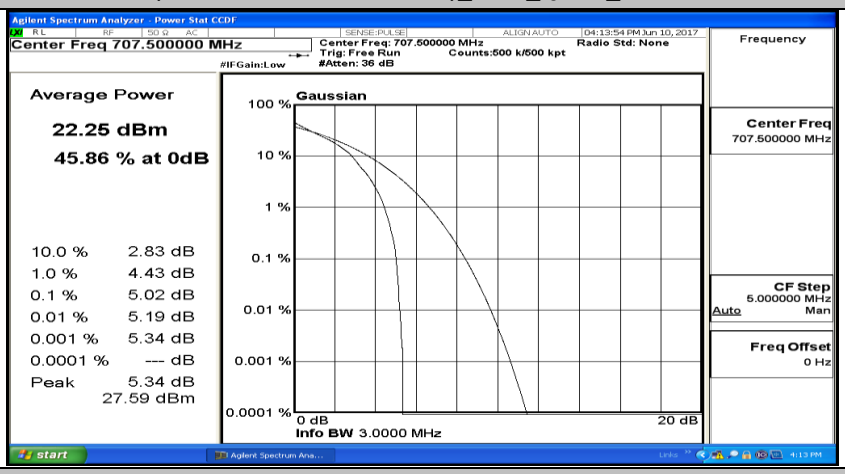

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7



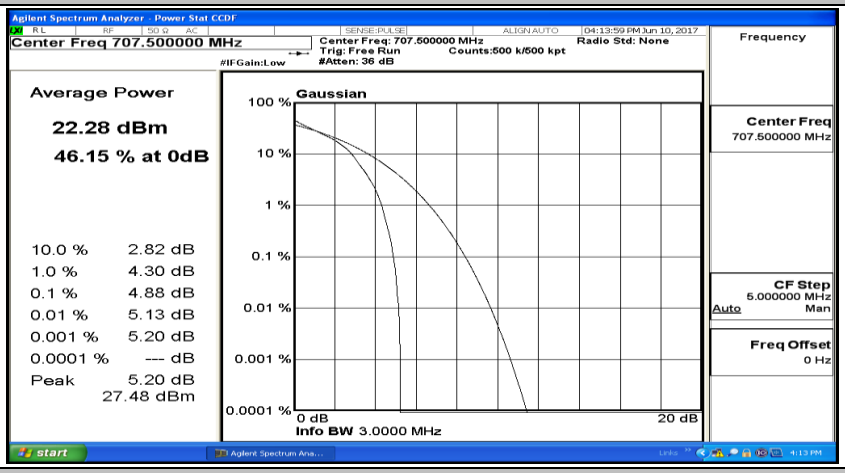

(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



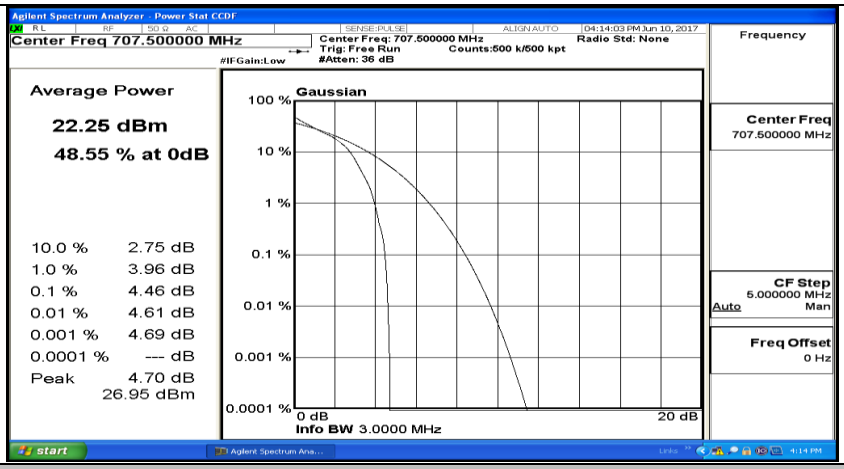

(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0



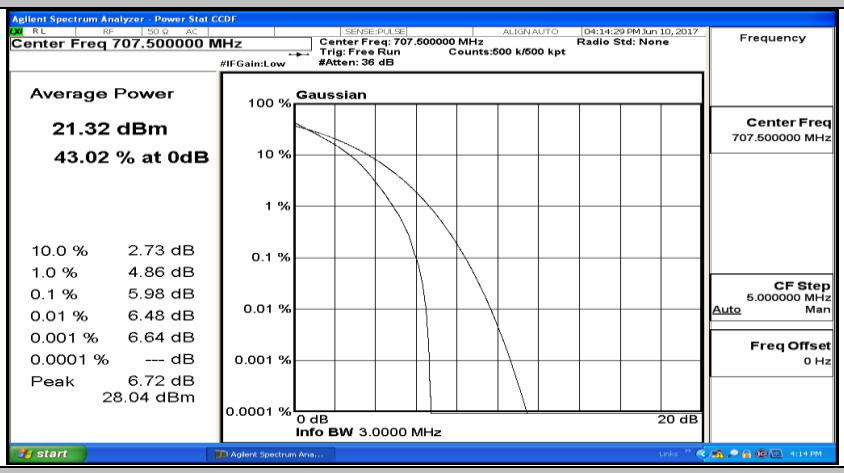

(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



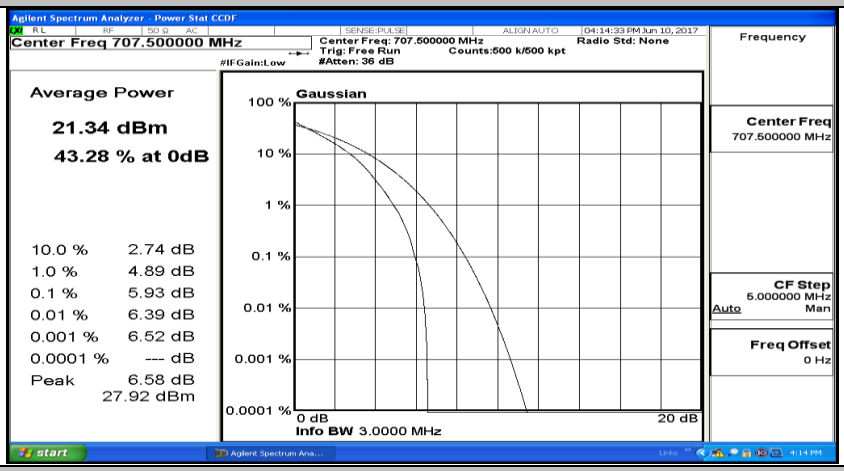

(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14



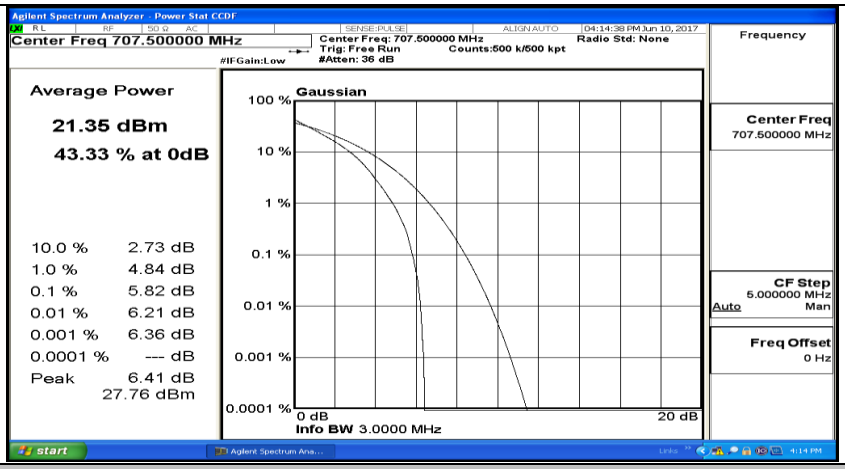

(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0



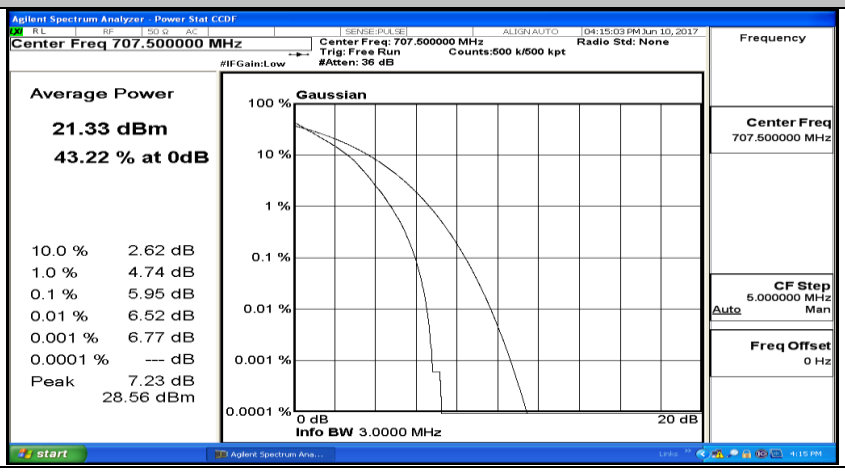

(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4



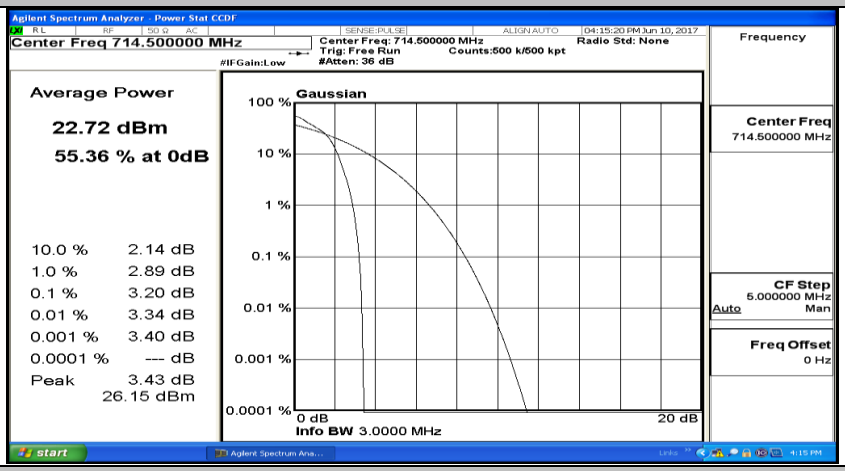

(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7



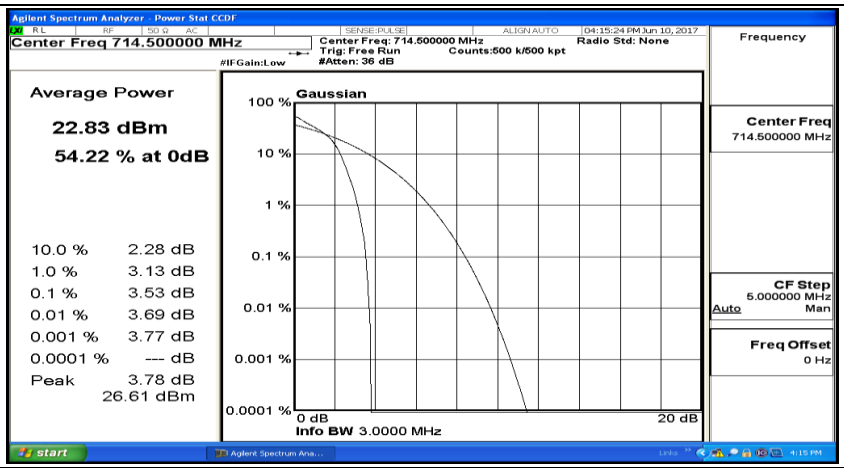

(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0



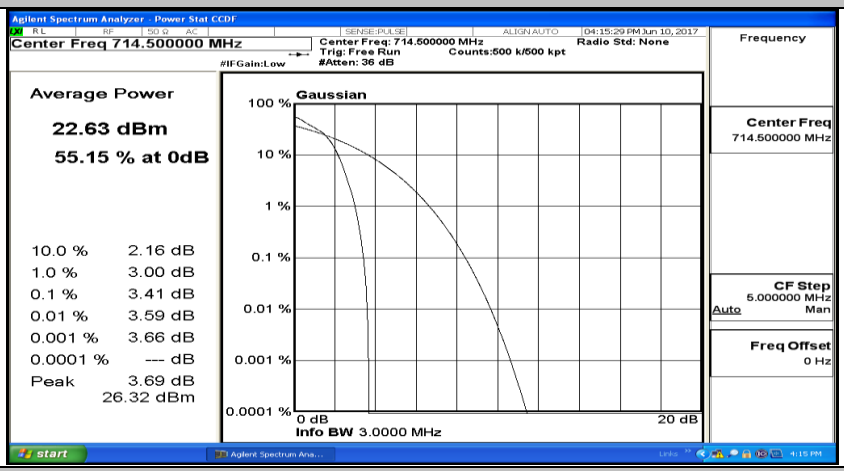

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



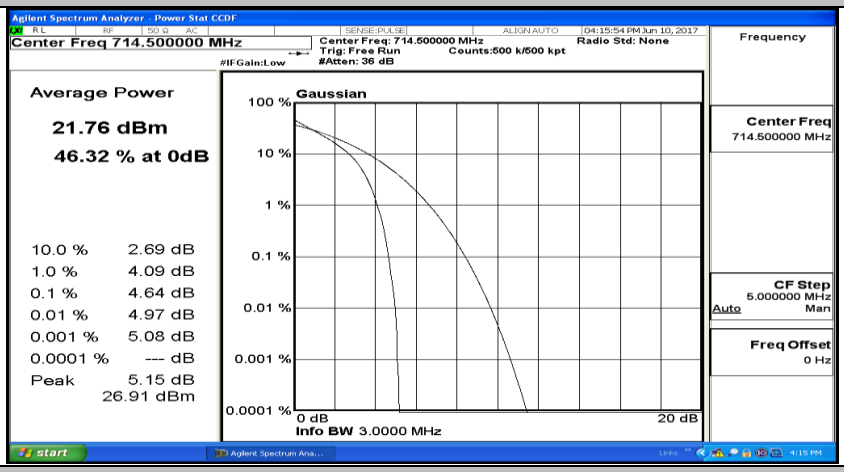

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



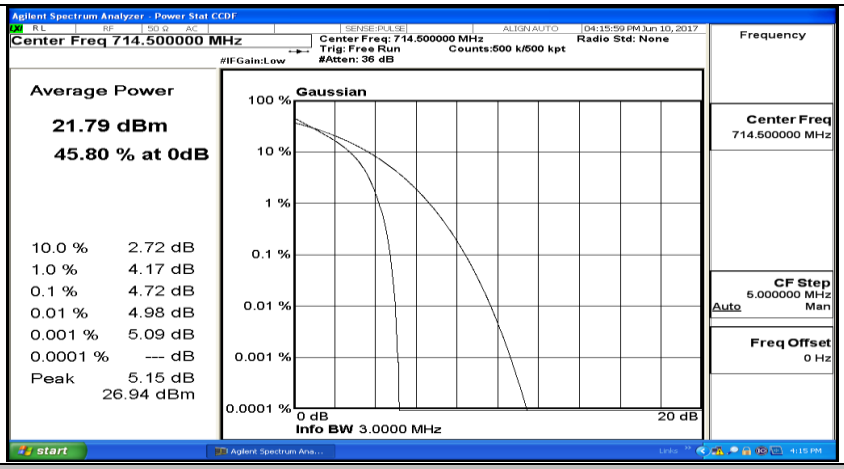

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



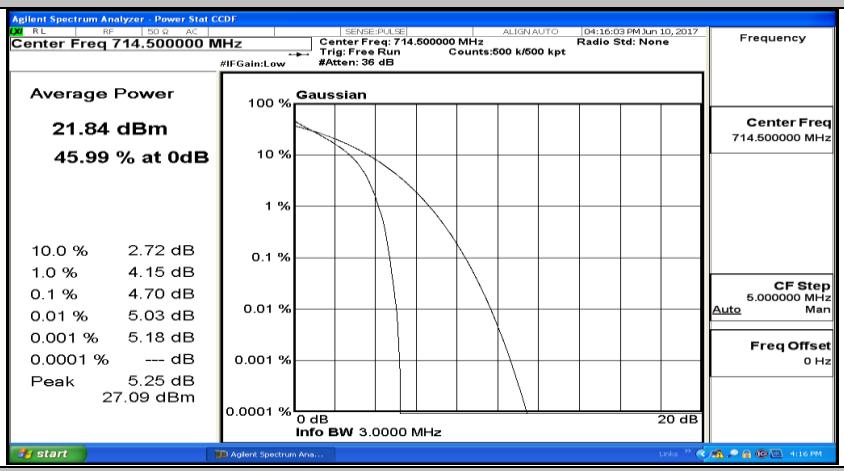

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0



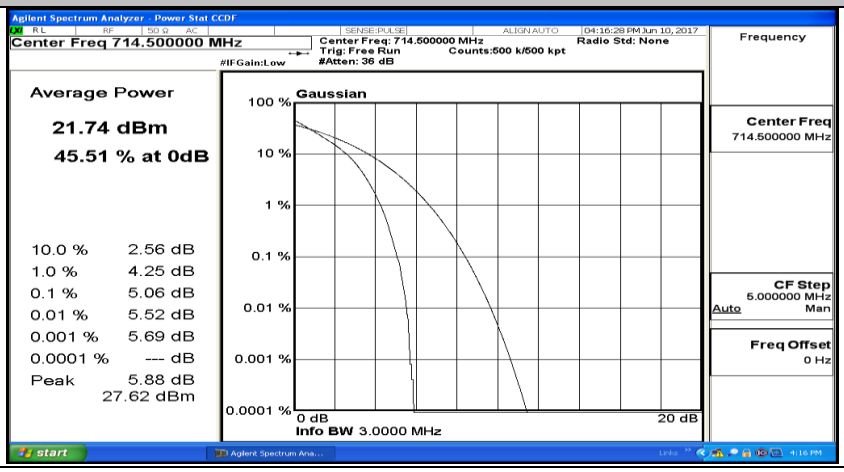

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4



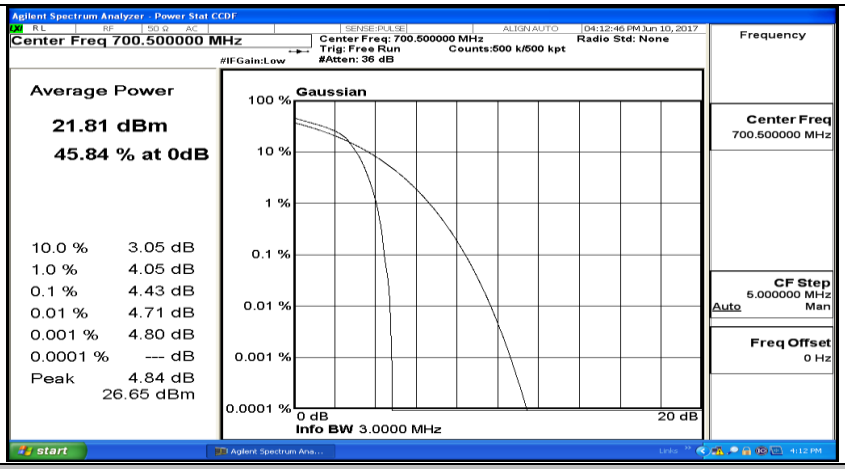

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



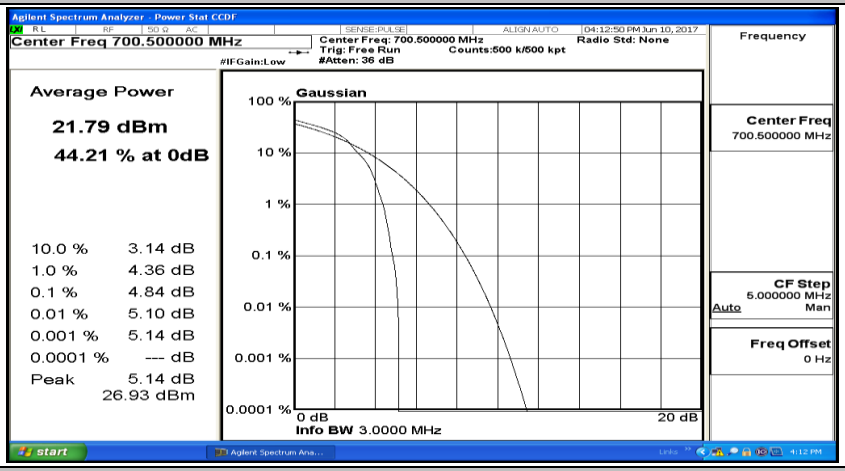

(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



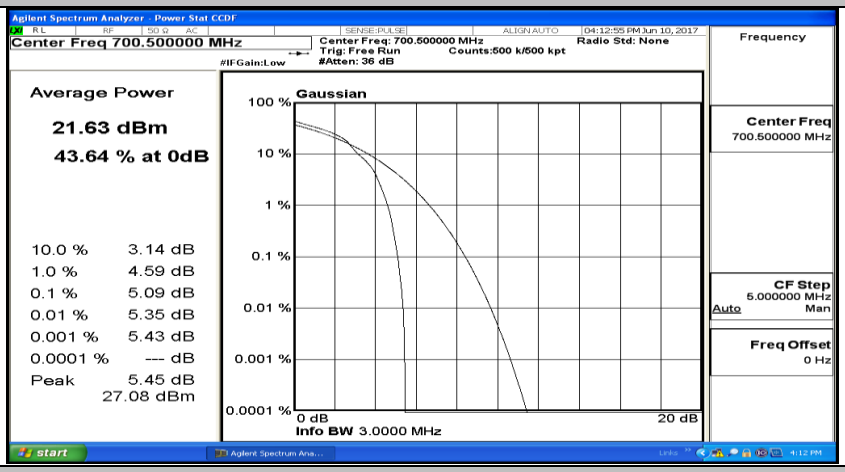

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



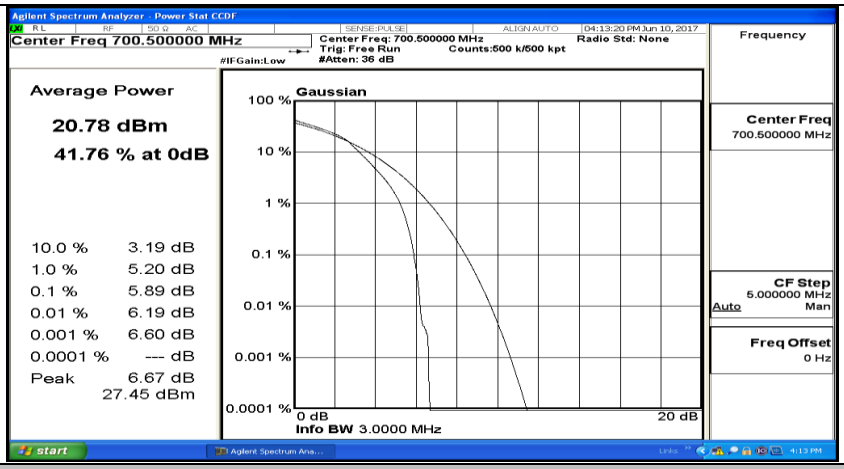

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



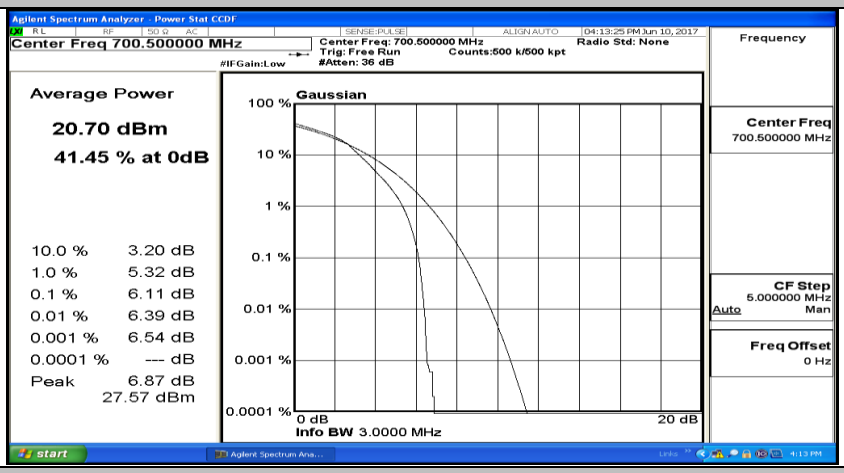

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14



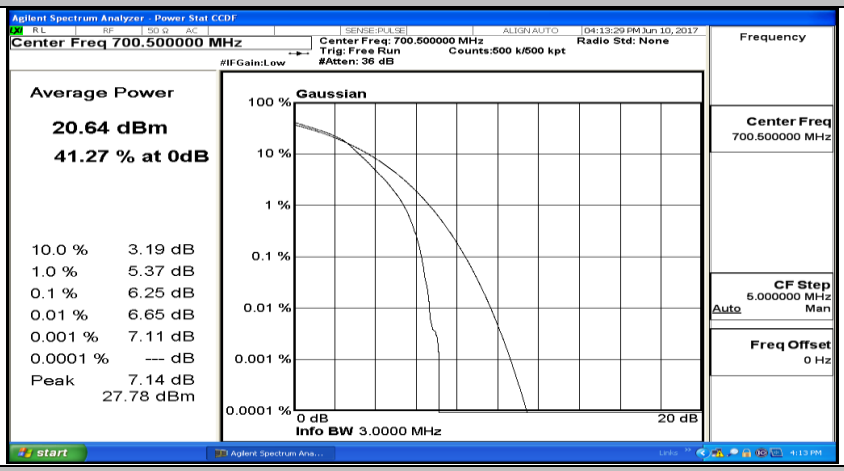

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



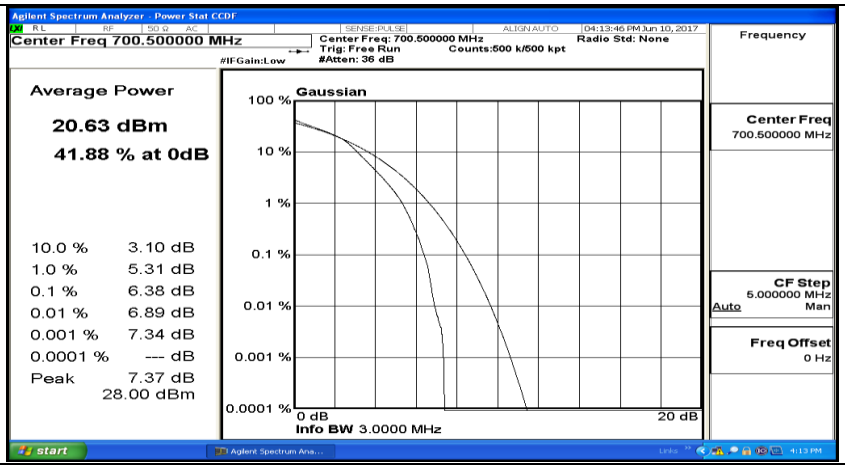

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4



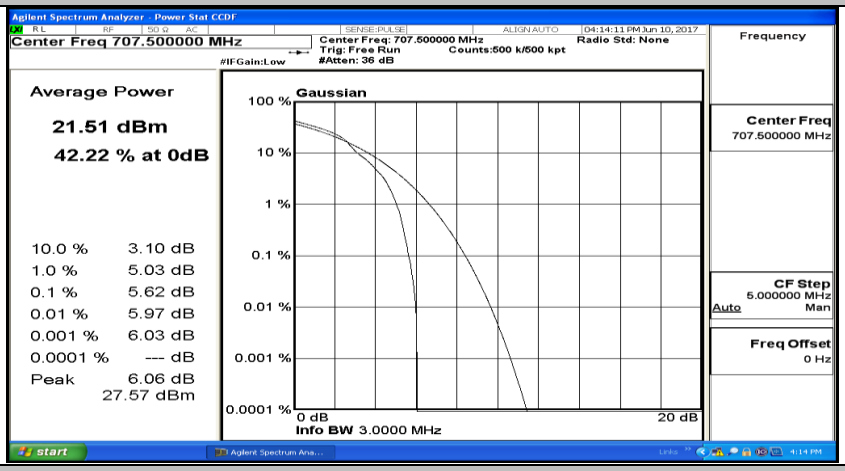

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



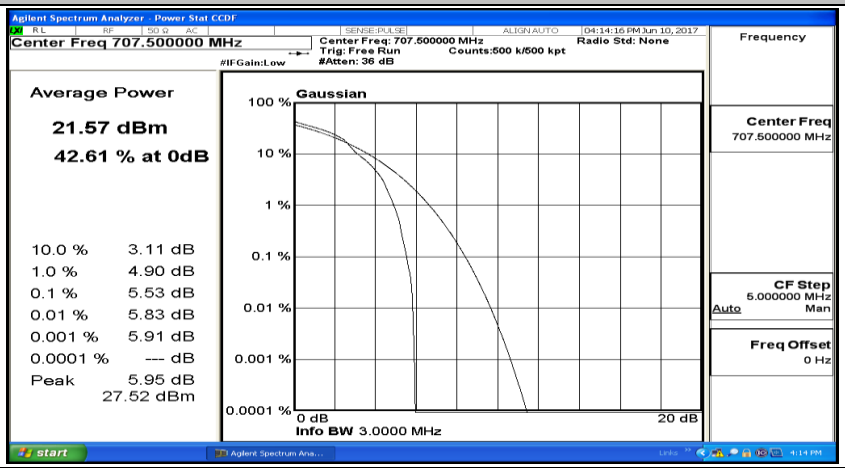

(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0



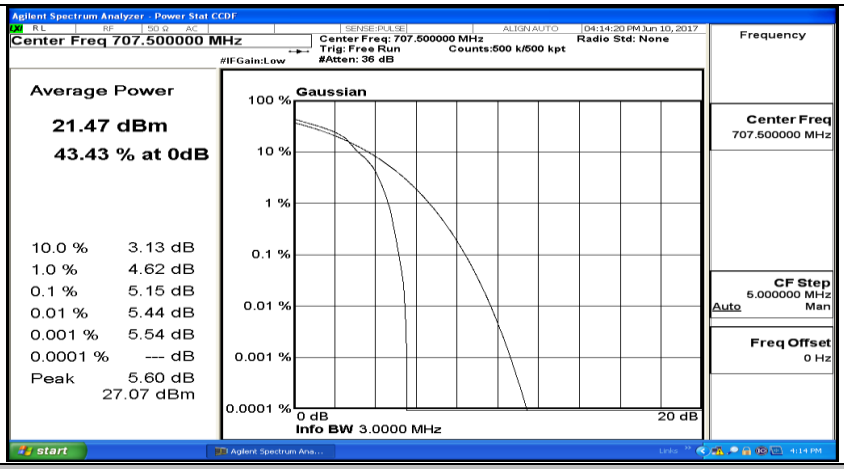

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



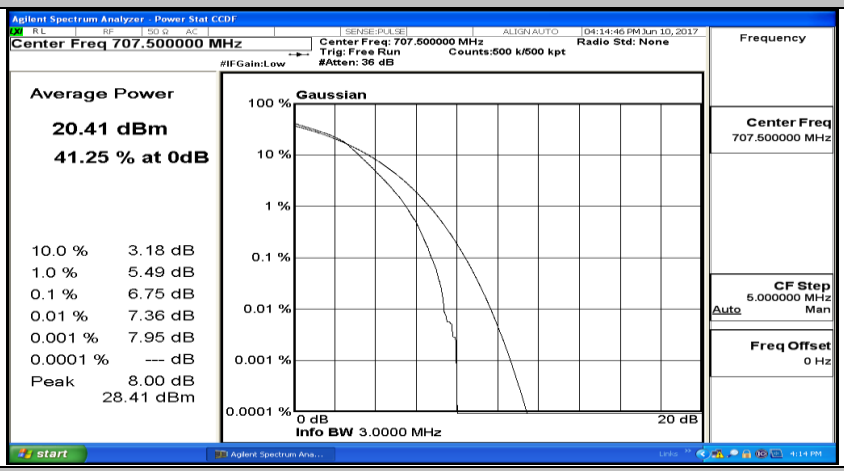

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



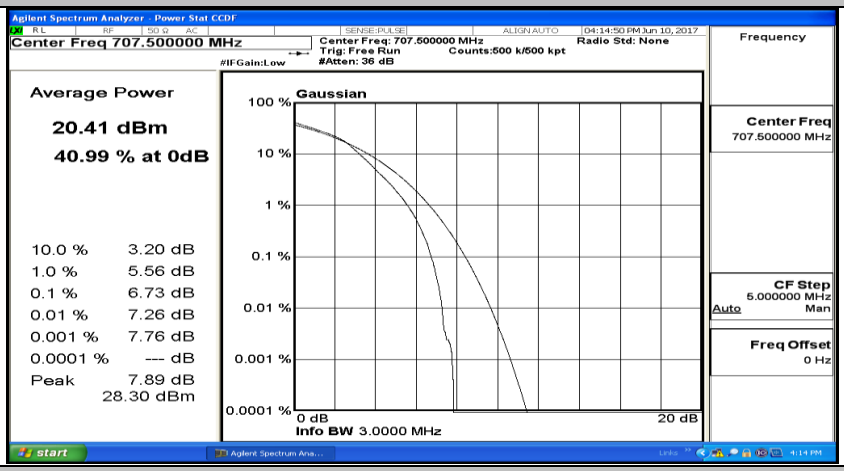

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



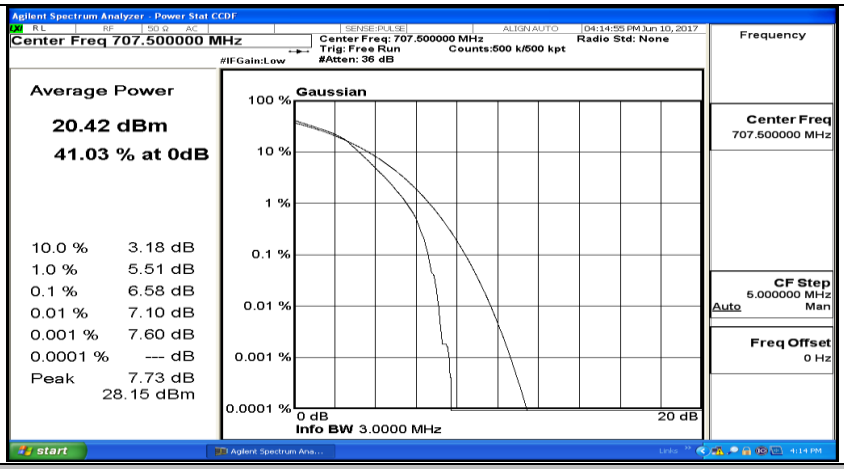

(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0



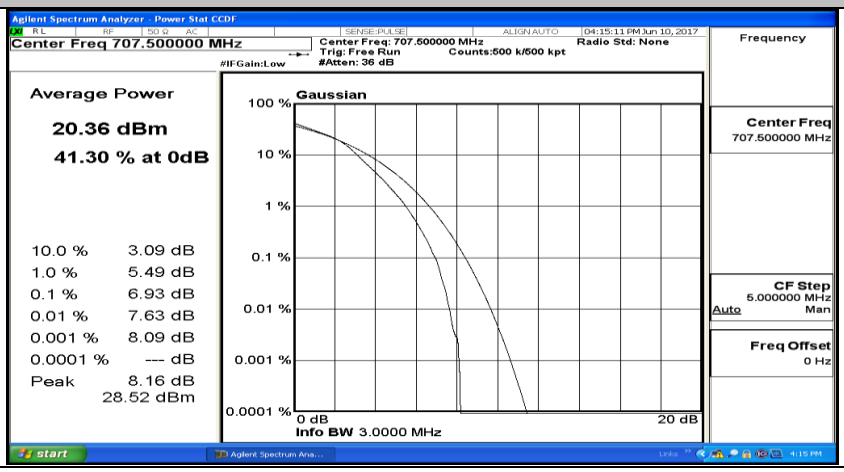

(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4



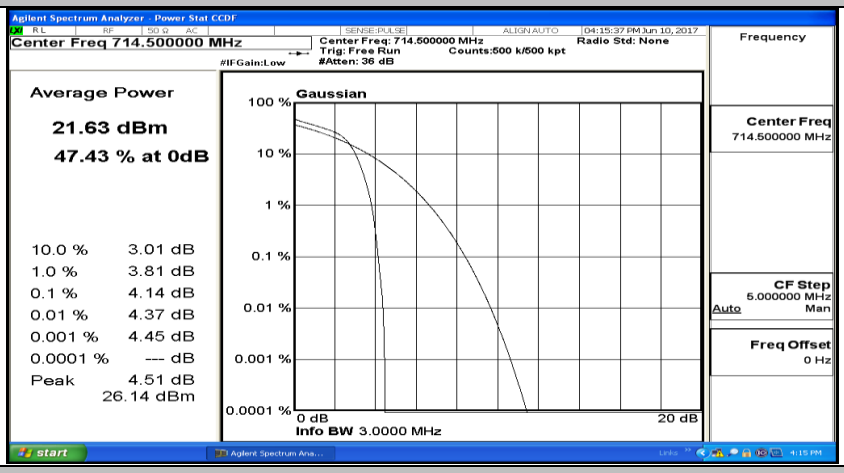

(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7



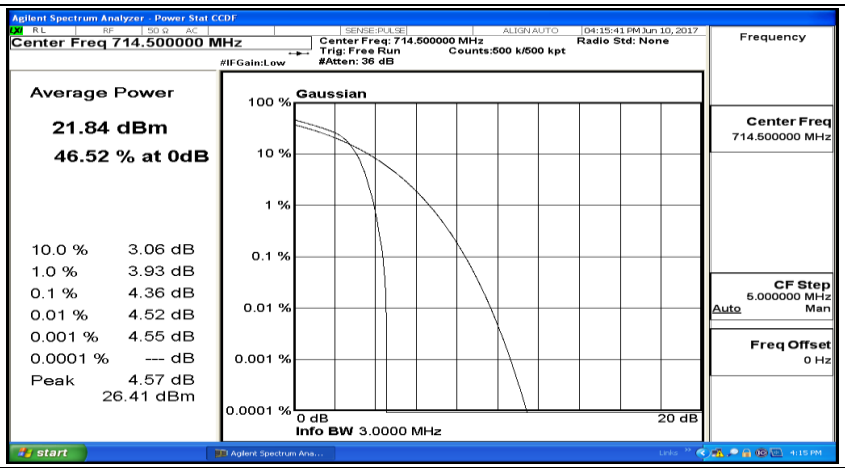

(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0



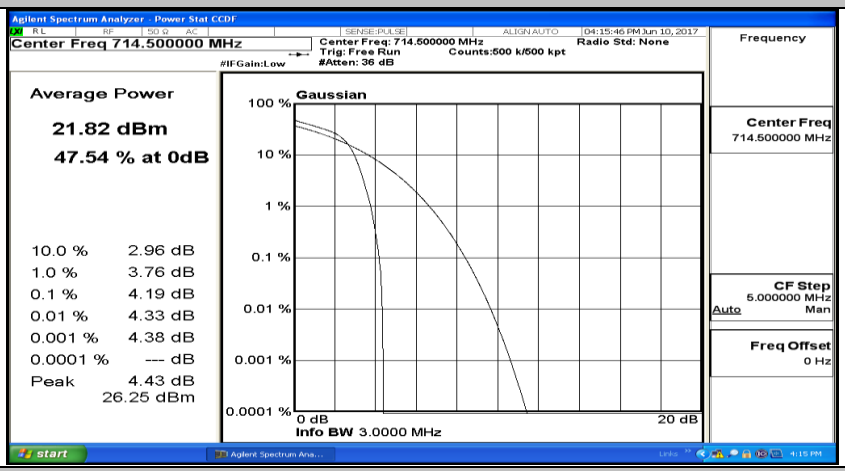

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



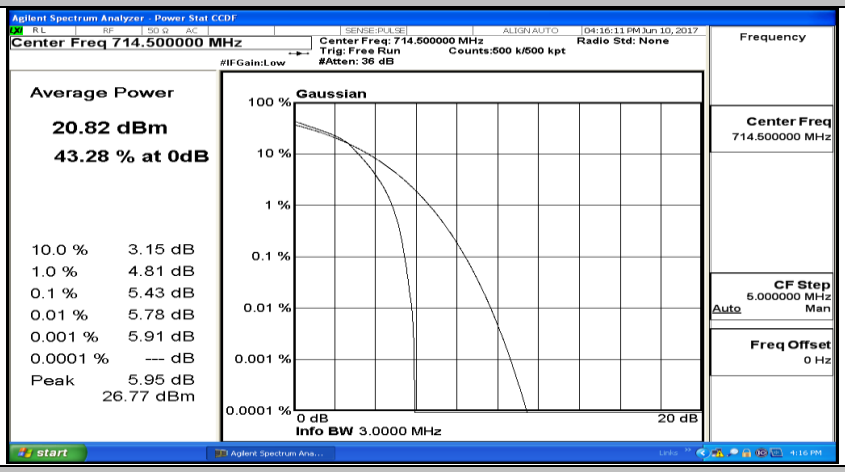

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



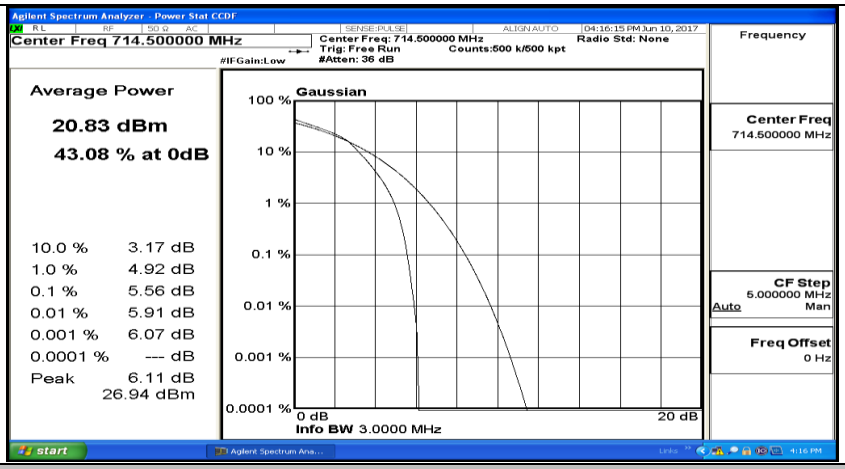

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14



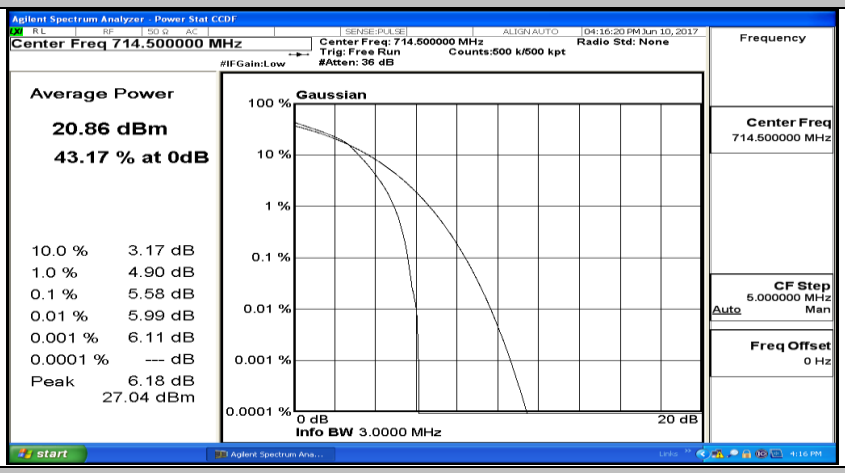

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0




(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4




(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7




(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0