



Appendix A: Average Output Power Data

Test Result

Channel Bandwidth: 5 MHz

| Channel Bandwidth: 5 MHz | | | | | |
|--------------------------|---------|------------------|--------|---------------------|---------|
| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 23.05 | PASS |
| | | 1 | 12 | 23.01 | PASS |
| | | 1 | 24 | 23.03 | PASS |
| | | 12 | 0 | 21.98 | PASS |
| | | 12 | 6 | 22.05 | PASS |
| | | 12 | 13 | 21.97 | PASS |
| | | 25 | 0 | 21.97 | PASS |
| | MCH | 1 | 0 | 23.17 | PASS |
| | | 1 | 12 | 23.11 | PASS |
| | | 1 | 24 | 23.10 | PASS |
| | | 12 | 0 | 22.15 | PASS |
| | | 12 | 6 | 22.11 | PASS |
| | | 12 | 13 | 22.10 | PASS |
| | | 25 | 0 | 22.13 | PASS |
| | HCH | 1 | 0 | 23.17 | PASS |
| | | 1 | 12 | 23.20 | PASS |
| | | 1 | 24 | 23.04 | PASS |
| | | 12 | 0 | 22.22 | PASS |
| | | 12 | 6 | 22.32 | PASS |
| | | 12 | 13 | 22.24 | PASS |
| | | 25 | 0 | 22.28 | PASS |
| 16QAM | LCH | 1 | 0 | 22.32 | PASS |
| | | 1 | 12 | 22.33 | PASS |
| | | 1 | 24 | 22.30 | PASS |
| | | 12 | 0 | 21.46 | PASS |
| | | 12 | 6 | 21.34 | PASS |
| | | 12 | 13 | 21.19 | PASS |
| | | 25 | 0 | 21.14 | PASS |
| | MCH | 1 | 0 | 22.44 | PASS |
| | | 1 | 12 | 22.38 | PASS |
| | | 1 | 24 | 22.34 | PASS |



| | | | | | |
|--|-----|----|----|-------|------|
| | | 12 | 0 | 21.17 | PASS |
| | | 12 | 6 | 21.20 | PASS |
| | | 12 | 13 | 21.16 | PASS |
| | | 25 | 0 | 21.08 | PASS |
| | HCH | 1 | 0 | 22.56 | PASS |
| | | 1 | 12 | 22.45 | PASS |
| | | 1 | 24 | 22.37 | PASS |
| | | 12 | 0 | 21.32 | PASS |
| | | 12 | 6 | 21.36 | PASS |
| | | 12 | 13 | 21.31 | PASS |
| | | 25 | 0 | 21.24 | PASS |

Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz | | | | | |
|---------------------------|---------|------------------|--------|---------------------|---------|
| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 23.18 | PASS |
| | | 1 | 24 | 23.00 | PASS |
| | | 1 | 49 | 23.07 | PASS |
| | | 25 | 0 | 22.13 | PASS |
| | | 25 | 12 | 22.15 | PASS |
| | | 25 | 25 | 22.09 | PASS |
| | | 50 | 0 | 22.06 | PASS |
| | MCH | 1 | 0 | 23.32 | PASS |
| | | 1 | 24 | 23.10 | PASS |
| | | 1 | 49 | 23.12 | PASS |
| | | 25 | 0 | 22.24 | PASS |
| | | 25 | 12 | 22.19 | PASS |
| | | 25 | 25 | 22.18 | PASS |
| | | 50 | 0 | 22.24 | PASS |
| | HCH | 1 | 0 | 23.34 | PASS |
| | | 1 | 24 | 23.29 | PASS |
| | | 1 | 49 | 23.21 | PASS |
| | | 25 | 0 | 22.29 | PASS |
| | | 25 | 12 | 22.38 | PASS |
| | | 25 | 25 | 22.29 | PASS |
| | | 50 | 0 | 22.31 | PASS |
| 16QAM | LCH | 1 | 0 | 22.45 | PASS |
| | | 1 | 24 | 22.17 | PASS |
| | | 1 | 49 | 22.26 | PASS |



| | | | | | |
|----|-----|-----|-------|-------|-------|
| | | 25 | 0 | 21.09 | PASS |
| | | 25 | 12 | 21.12 | PASS |
| | | 25 | 25 | 21.05 | PASS |
| | | 50 | 0 | 21.02 | PASS |
| | MCH | 1 | 0 | 22.58 | PASS |
| | | 1 | 24 | 22.34 | PASS |
| | | 1 | 49 | 22.37 | PASS |
| | | 25 | 0 | 21.18 | PASS |
| | | 25 | 12 | 21.15 | PASS |
| | | 25 | 25 | 21.13 | PASS |
| | | 50 | 0 | 21.13 | PASS |
| | | HCH | 1 | 0 | 22.71 |
| | 1 | | 24 | 22.73 | PASS |
| | 1 | | 49 | 22.59 | PASS |
| | 25 | | 0 | 21.22 | PASS |
| | 25 | | 12 | 21.33 | PASS |
| 25 | 25 | | 21.21 | PASS | |
| 50 | 0 | | 21.23 | PASS | |

Channel Bandwidth: 15 MHz

| Channel Bandwidth: 15 MHz | | | | | |
|---------------------------|---------|------------------|--------|---------------------|---------|
| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 23.10 | PASS |
| | | 1 | 37 | 22.91 | PASS |
| | | 1 | 74 | 23.23 | PASS |
| | | 36 | 0 | 22.18 | PASS |
| | | 36 | 19 | 22.10 | PASS |
| | | 36 | 39 | 22.12 | PASS |
| | | 75 | 0 | 22.17 | PASS |
| | MCH | 1 | 0 | 23.18 | PASS |
| | | 1 | 37 | 23.12 | PASS |
| | | 1 | 74 | 23.31 | PASS |
| | | 36 | 0 | 22.32 | PASS |
| | | 36 | 19 | 22.26 | PASS |
| | | 36 | 39 | 22.21 | PASS |
| | | 75 | 0 | 22.32 | PASS |
| | HCH | 1 | 0 | 23.17 | PASS |
| | | 1 | 37 | 23.21 | PASS |
| | | 1 | 74 | 23.18 | PASS |



| | | | | | |
|-------|-----|----|----|-------|------|
| | | 36 | 0 | 22.21 | PASS |
| | | 36 | 19 | 22.13 | PASS |
| | | 36 | 39 | 22.19 | PASS |
| | | 75 | 0 | 22.20 | PASS |
| 16QAM | LCH | 1 | 0 | 22.48 | PASS |
| | | 1 | 37 | 22.45 | PASS |
| | | 1 | 74 | 22.56 | PASS |
| | | 36 | 0 | 21.12 | PASS |
| | | 36 | 19 | 21.12 | PASS |
| | | 36 | 39 | 21.04 | PASS |
| | | 75 | 0 | 21.12 | PASS |
| | MCH | 1 | 0 | 22.57 | PASS |
| | | 1 | 37 | 22.47 | PASS |
| | | 1 | 74 | 22.62 | PASS |
| | | 36 | 0 | 21.23 | PASS |
| | | 36 | 19 | 21.24 | PASS |
| | | 36 | 39 | 21.12 | PASS |
| | | 75 | 0 | 21.25 | PASS |
| | HCH | 1 | 0 | 22.47 | PASS |
| | | 1 | 37 | 22.27 | PASS |
| | | 1 | 74 | 22.54 | PASS |
| | | 36 | 0 | 21.12 | PASS |
| | | 36 | 19 | 21.04 | PASS |
| | | 36 | 39 | 21.11 | PASS |
| | | 75 | 0 | 21.07 | PASS |

Channel Bandwidth: 20 MHz

| Channel Bandwidth: 20 MHz | | | | | |
|---------------------------|---------|------------------|--------|---------------------|---------|
| Modulation | Channel | RB Configuration | | Average Power [dBm] | Verdict |
| | | Size | Offset | | |
| QPSK | LCH | 1 | 0 | 23.19 | PASS |
| | | 1 | 49 | 22.96 | PASS |
| | | 1 | 99 | 23.34 | PASS |
| | | 50 | 0 | 22.20 | PASS |
| | | 50 | 25 | 22.06 | PASS |
| | | 50 | 50 | 22.12 | PASS |
| | | 100 | 0 | 22.14 | PASS |
| | MCH | 1 | 0 | 23.24 | PASS |
| | | 1 | 49 | 23.14 | PASS |
| | | 1 | 99 | 23.45 | PASS |



| | | | | | |
|-------|-----|-------|------|-------|------|
| | | 50 | 0 | 22.24 | PASS |
| | | 50 | 25 | 22.21 | PASS |
| | | 50 | 50 | 22.22 | PASS |
| | | 100 | 0 | 22.29 | PASS |
| | HCH | 1 | 0 | 23.18 | PASS |
| | | 1 | 49 | 23.03 | PASS |
| | | 1 | 99 | 23.41 | PASS |
| | | 50 | 0 | 22.26 | PASS |
| | | 50 | 25 | 22.14 | PASS |
| | | 50 | 50 | 22.23 | PASS |
| 100 | 0 | 22.23 | PASS | | |
| 16QAM | LCH | 1 | 0 | 22.54 | PASS |
| | | 1 | 49 | 22.28 | PASS |
| | | 1 | 99 | 22.63 | PASS |
| | | 50 | 0 | 21.17 | PASS |
| | | 50 | 25 | 21.05 | PASS |
| | | 50 | 50 | 21.06 | PASS |
| | | 100 | 0 | 21.07 | PASS |
| | MCH | 1 | 0 | 22.49 | PASS |
| | | 1 | 49 | 22.42 | PASS |
| | | 1 | 99 | 22.77 | PASS |
| | | 50 | 0 | 21.19 | PASS |
| | | 50 | 25 | 21.20 | PASS |
| | | 50 | 50 | 21.16 | PASS |
| | | 100 | 0 | 21.22 | PASS |
| | HCH | 1 | 0 | 22.54 | PASS |
| | | 1 | 49 | 22.48 | PASS |
| | | 1 | 99 | 22.76 | PASS |
| | | 50 | 0 | 21.24 | PASS |
| | | 50 | 25 | 21.15 | PASS |
| | | 50 | 50 | 21.20 | PASS |
| | | 100 | 0 | 21.19 | 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 [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | MCH | 1 | 0 | 4.38 | <13 | PASS |
| 16QAM | MCH | 1 | 0 | 5.23 | <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 | MCH | 1 | 0 | 4.24 | <13 | PASS |
| 16QAM | MCH | 1 | 0 | 5.15 | <13 | PASS |

Channel Bandwidth: 15 MHz

| Channel Bandwidth: 15 MHz | | | | | | |
|---------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | MCH | 1 | 0 | 4.27 | <13 | PASS |
| 16QAM | MCH | 1 | 0 | 4.89 | <13 | PASS |

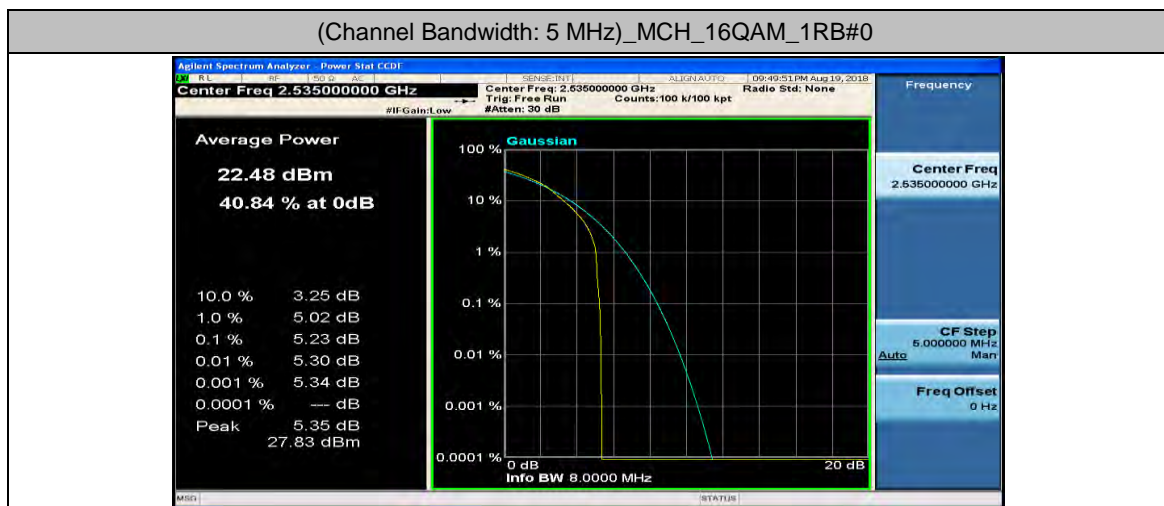
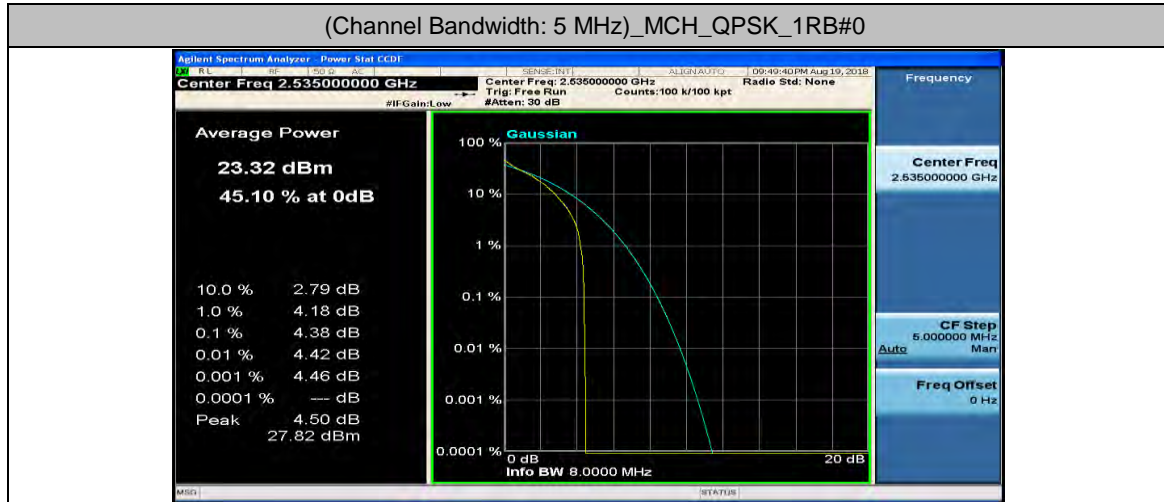
Channel Bandwidth: 20 MHz

| Channel Bandwidth: 20 MHz | | | | | | |
|---------------------------|---------|------------------|--------|-------------------------------|---------------|---------|
| Modulation | Channel | RB Configuration | | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| | | Size | Offset | | | |
| QPSK | MCH | 1 | 0 | 4.33 | <13 | PASS |
| 16QAM | MCH | 1 | 0 | 5.03 | <13 | PASS |

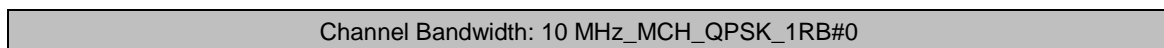


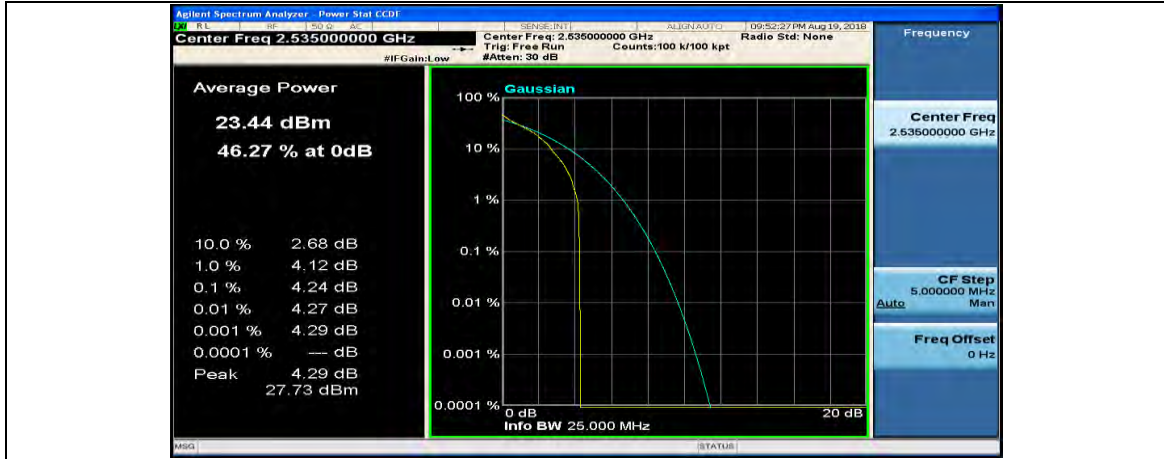
Test Graphs

Channel Bandwidth: 5 MHz



Channel Bandwidth: 10 MHz





Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

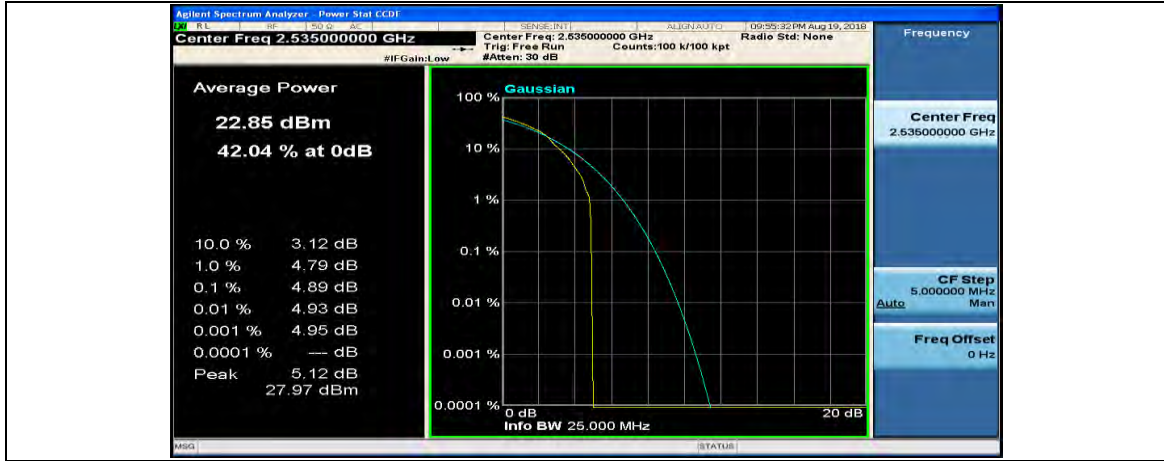


Channel Bandwidth: 15 MHz

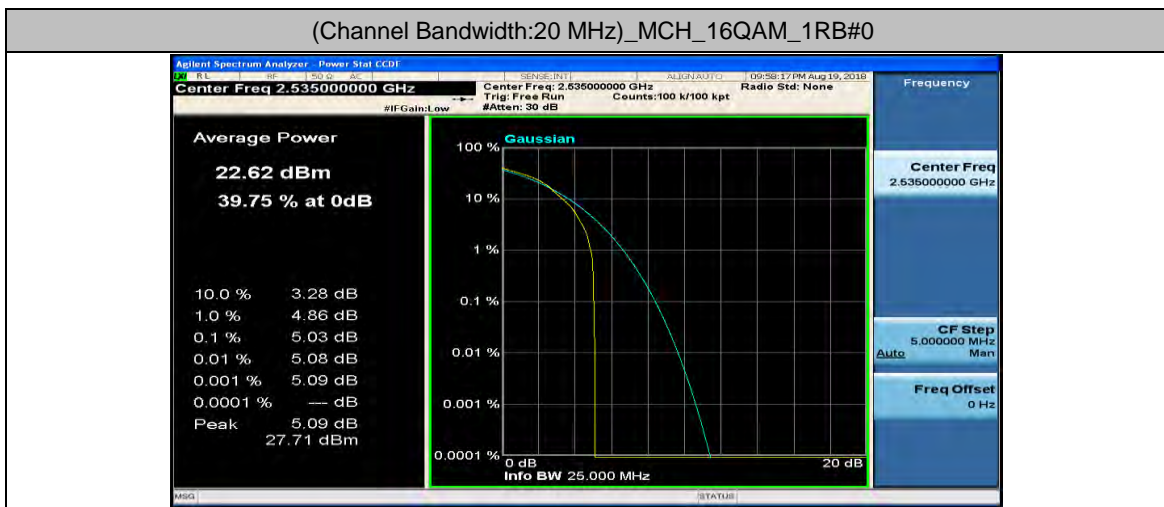
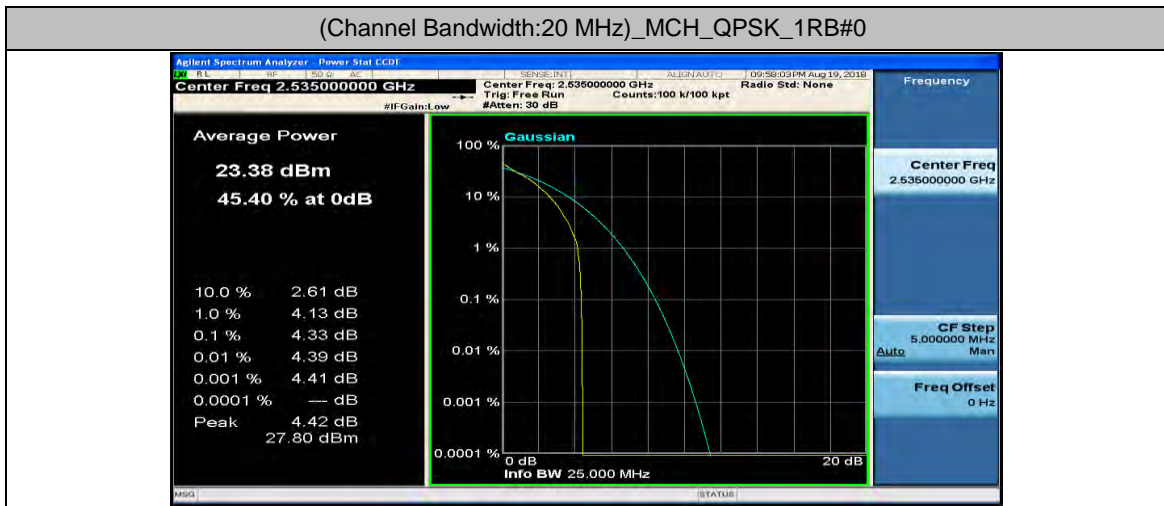
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(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0



Channel Bandwidth: 20 MHz





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 | 4.4754 | 4.792 | PASS |
| | MCH | 25 | 0 | 4.4745 | 4.773 | PASS |
| | HCH | 25 | 0 | 4.4726 | 4.759 | PASS |
| 16QAM | LCH | 25 | 0 | 4.4813 | 4.798 | PASS |
| | MCH | 25 | 0 | 4.4808 | 4.824 | PASS |
| | HCH | 25 | 0 | 4.4798 | 4.823 | 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 | 8.9348 | 9.455 | PASS |
| | MCH | 50 | 0 | 8.9364 | 9.404 | PASS |
| | HCH | 50 | 0 | 8.9301 | 9.465 | PASS |
| 16QAM | LCH | 50 | 0 | 8.9452 | 9.446 | PASS |
| | MCH | 50 | 0 | 8.9449 | 9.432 | PASS |
| | HCH | 50 | 0 | 8.9415 | 9.472 | PASS |

Channel Bandwidth: 15 MHz

| Channel Bandwidth: 15 MHz | | | | | | |
|---------------------------|---------|------------------|--------|--------------------------|----------------------|---------|
| Modulation | Channel | RB Configuration | | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| | | Size | Offset | | | |



| | | | | | | |
|-------|-----|----|---|--------|-------|------|
| QPSK | LCH | 75 | 0 | 13.423 | 14.08 | PASS |
| | MCH | 75 | 0 | 13.416 | 14.03 | PASS |
| | HCH | 75 | 0 | 13.415 | 14.10 | PASS |
| 16QAM | LCH | 75 | 0 | 13.400 | 14.00 | PASS |
| | MCH | 75 | 0 | 13.416 | 14.03 | PASS |
| | HCH | 75 | 0 | 13.408 | 14.07 | PASS |

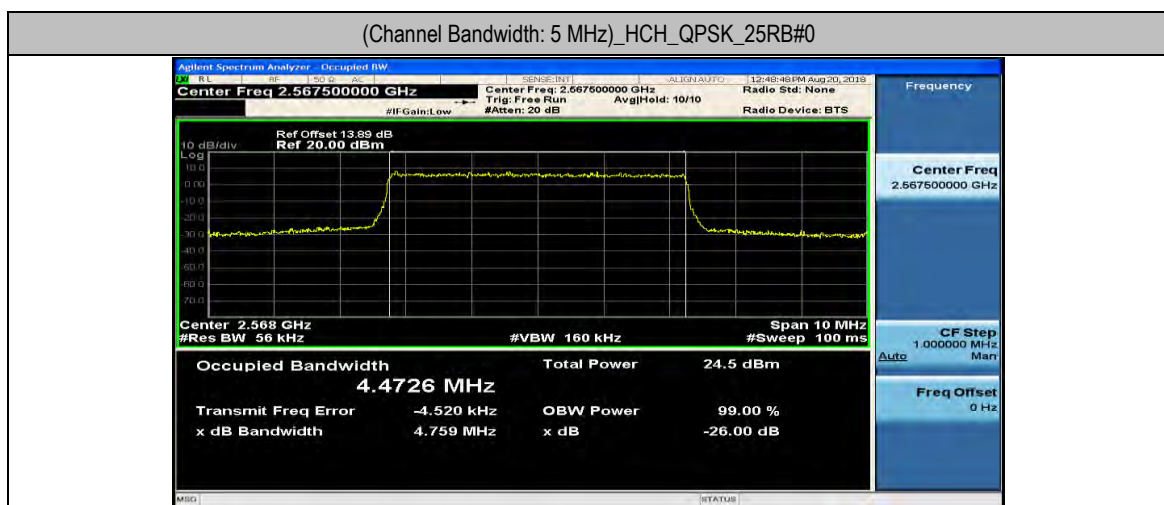
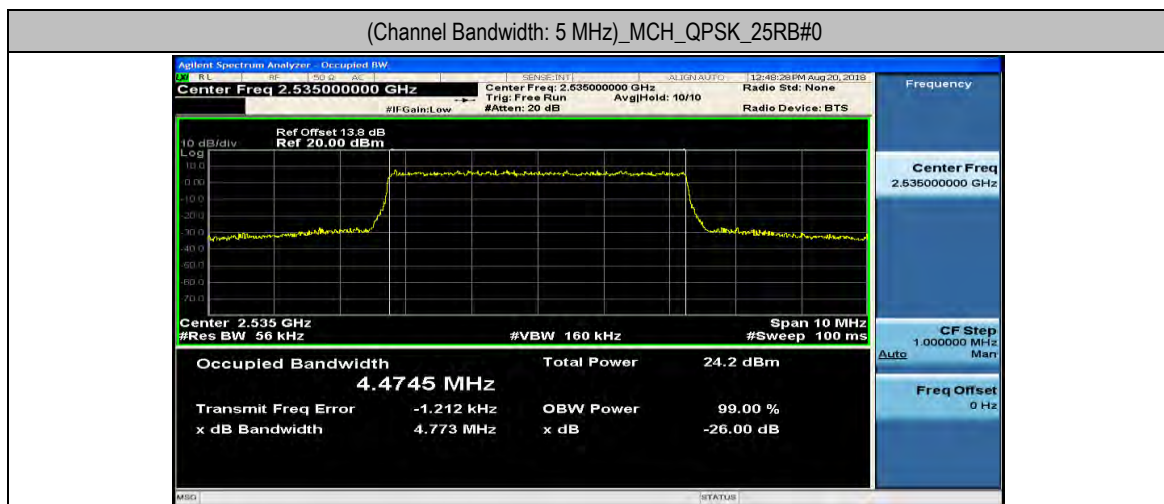
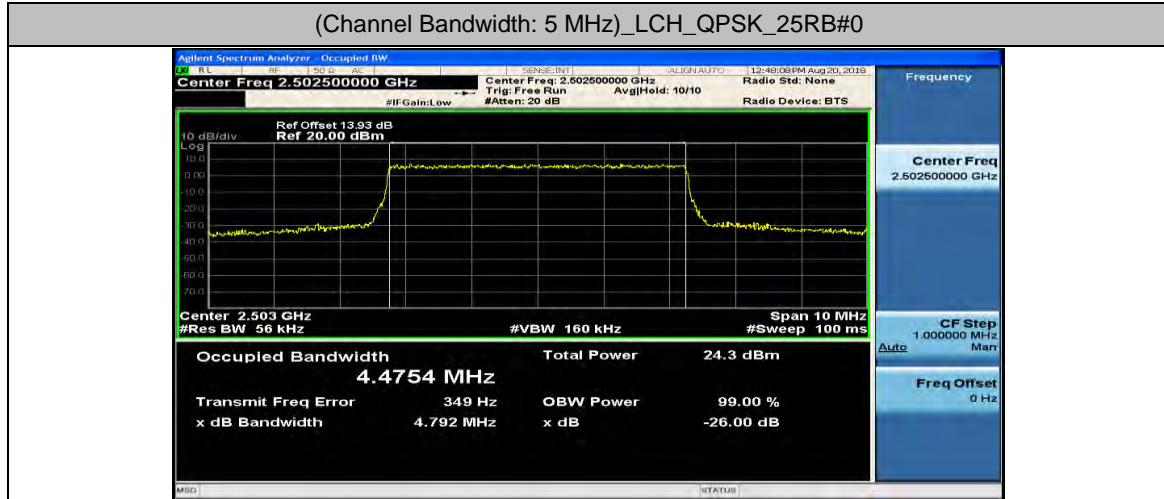
Channel Bandwidth: 20 MHz

| Channel Bandwidth: 20 MHz | | | | | | |
|---------------------------|---------|------------------|--------|--------------------------|----------------------|---------|
| Modulation | Channel | RB Configuration | | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| | | Size | Offset | | | |
| QPSK | LCH | 100 | 0 | 17.839 | 18.74 | PASS |
| | MCH | 100 | 0 | 17.847 | 18.71 | PASS |
| | HCH | 100 | 0 | 17.844 | 18.68 | PASS |
| 16QAM | LCH | 100 | 0 | 17.844 | 18.70 | PASS |
| | MCH | 100 | 0 | 17.848 | 18.63 | PASS |
| | HCH | 100 | 0 | 17.850 | 18.70 | PASS |



Test Graphs

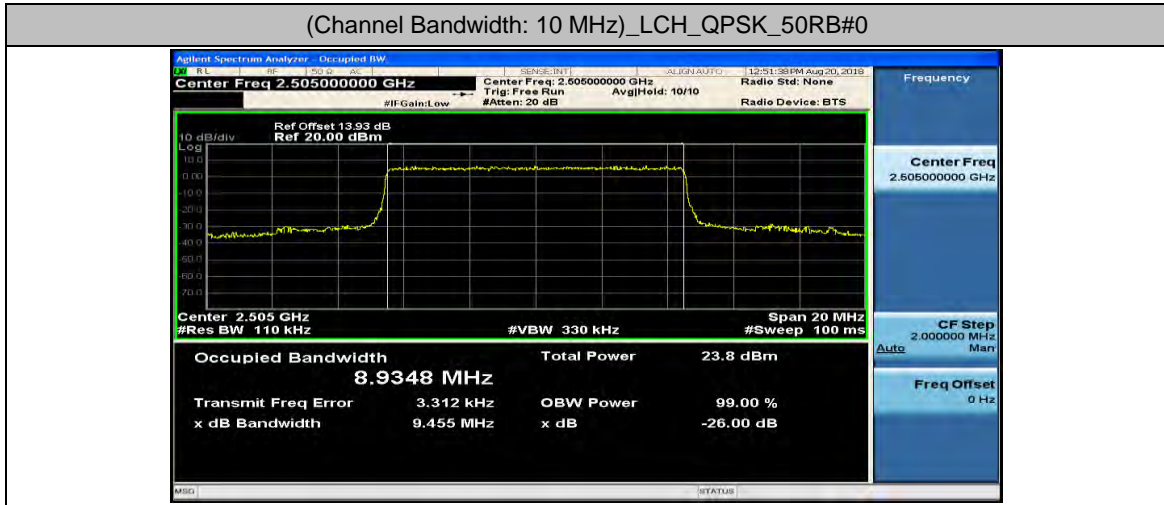
Channel Bandwidth: 5 MHz



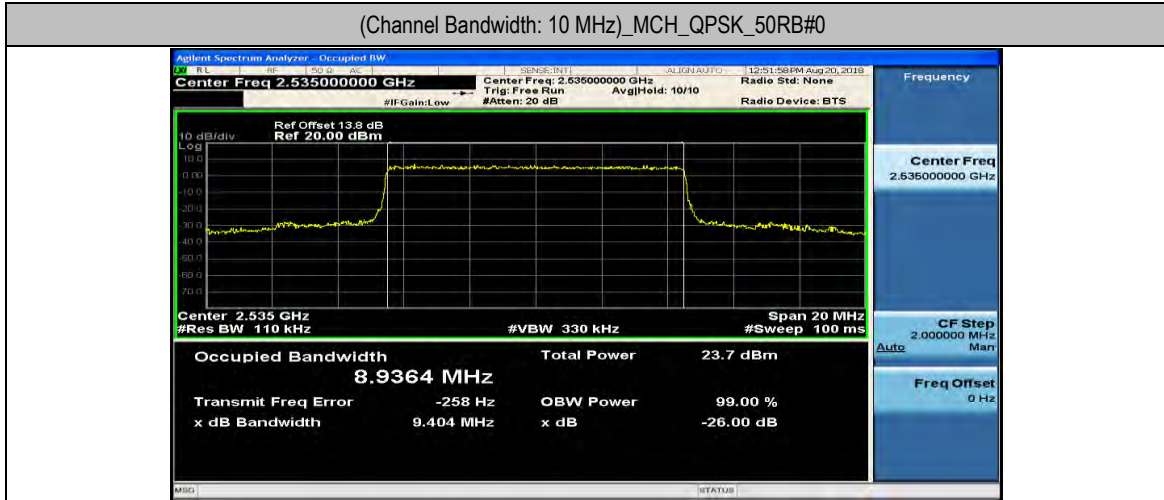


Channel Bandwidth: 10 MHz

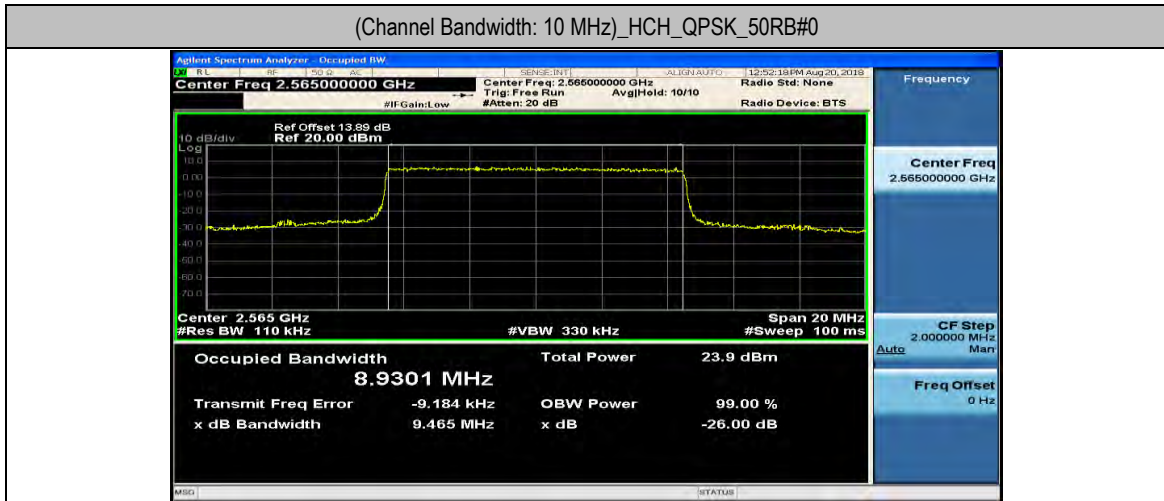
(Channel Bandwidth: 10 MHz)_LCH_QPSK_50RB#0



(Channel Bandwidth: 10 MHz)_MCH_QPSK_50RB#0

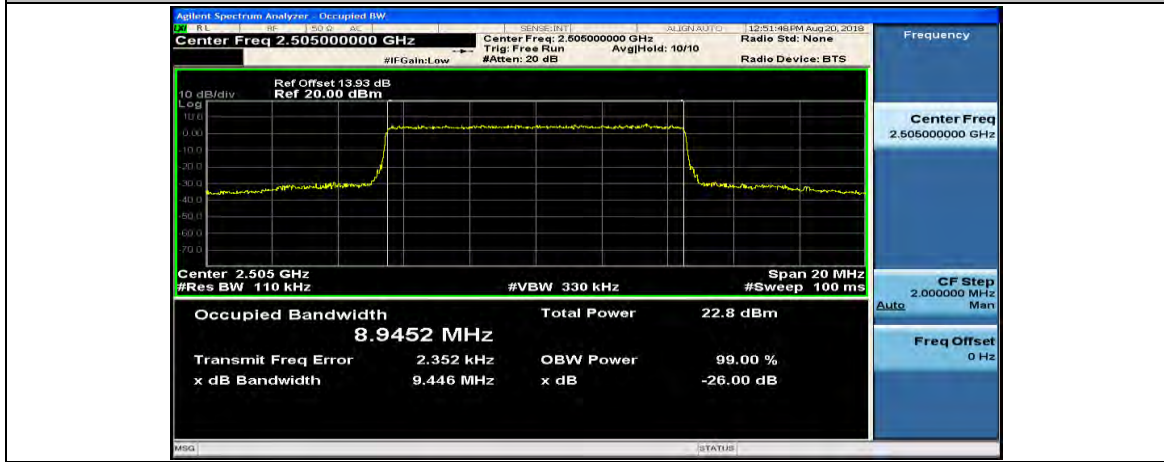


(Channel Bandwidth: 10 MHz)_HCH_QPSK_50RB#0

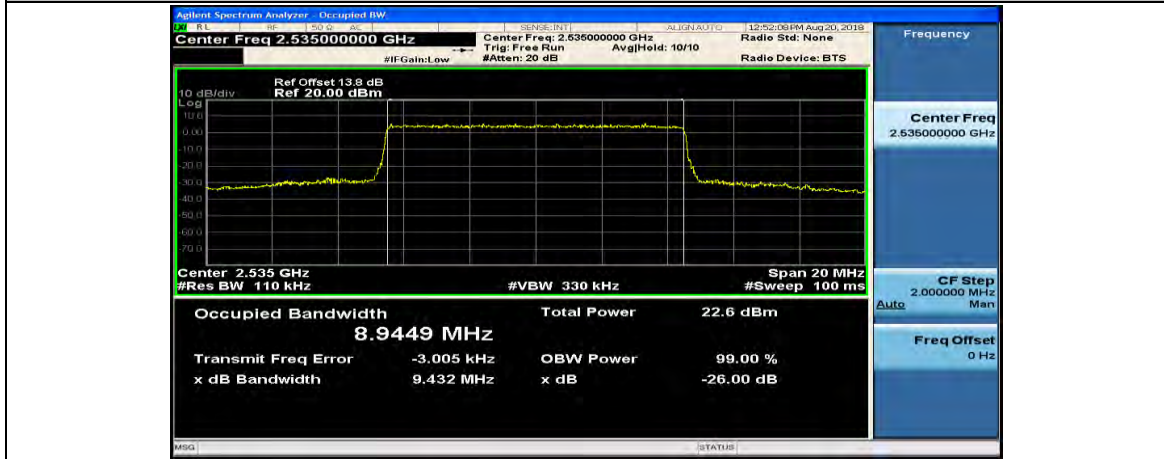




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(Channel Bandwidth: 10 MHz)_MCH_16QAM_50RB#0

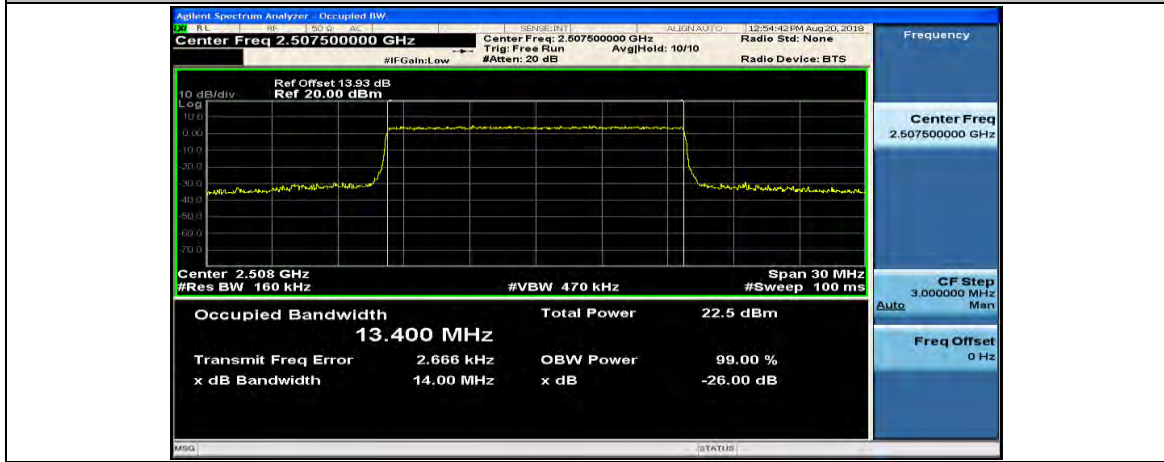


(Channel Bandwidth: 10 MHz)_HCH_16QAM_50RB#0

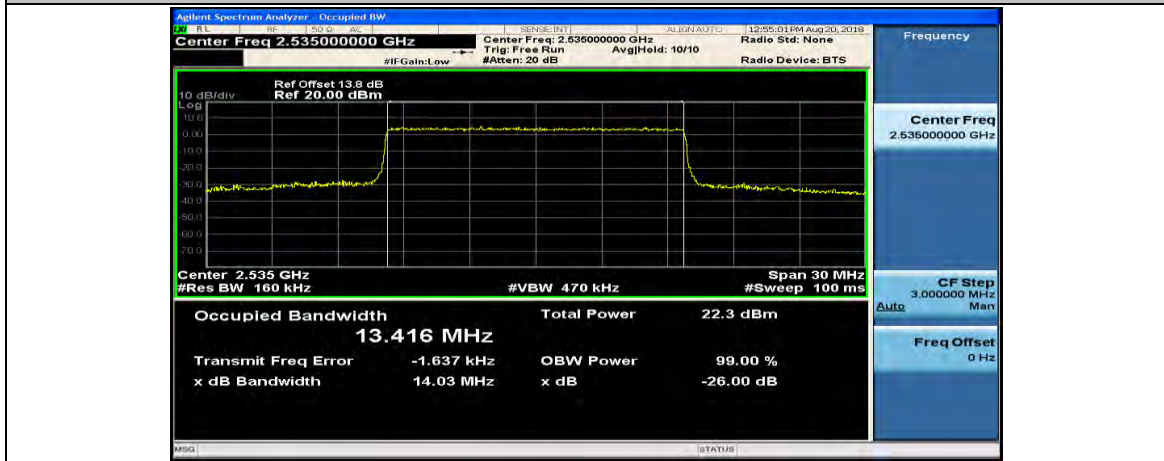




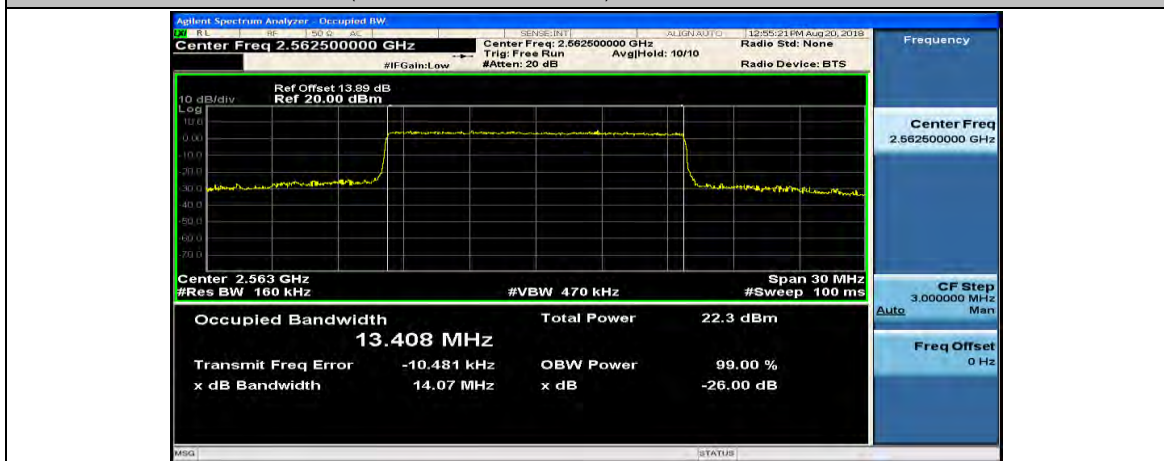
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(Channel Bandwidth: 15 MHz)_MCH_16QAM_75RB#0



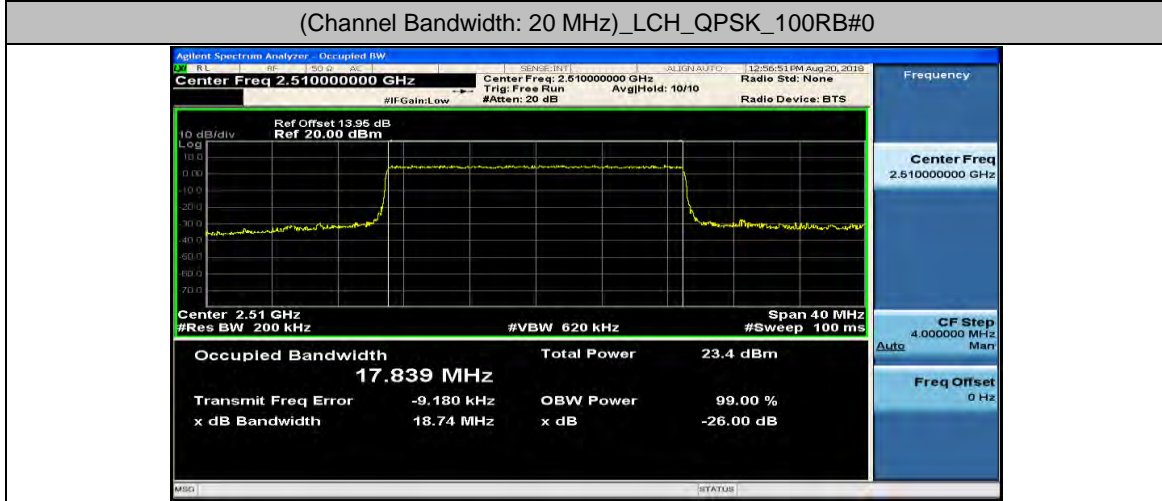
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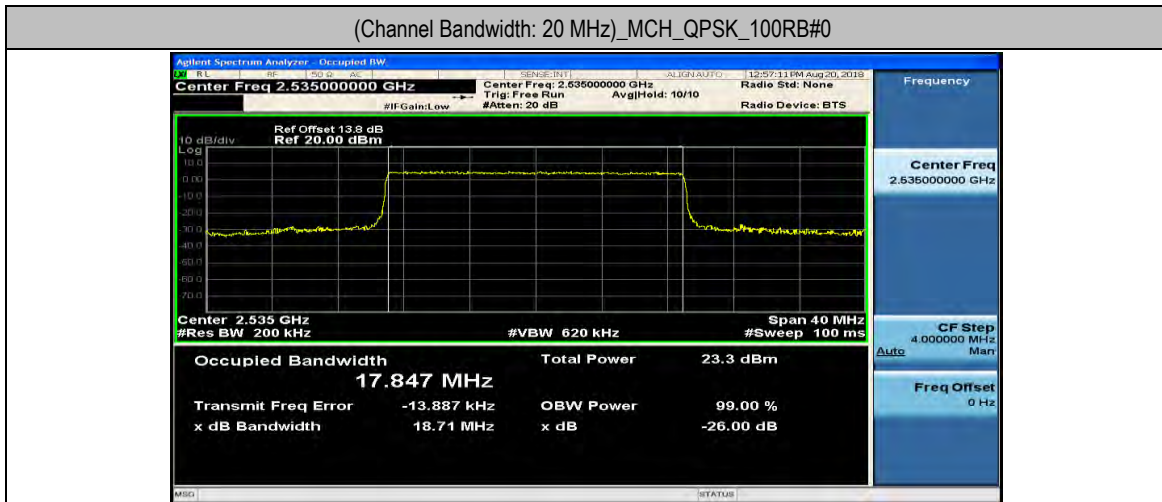


Channel Bandwidth: 20 MHz

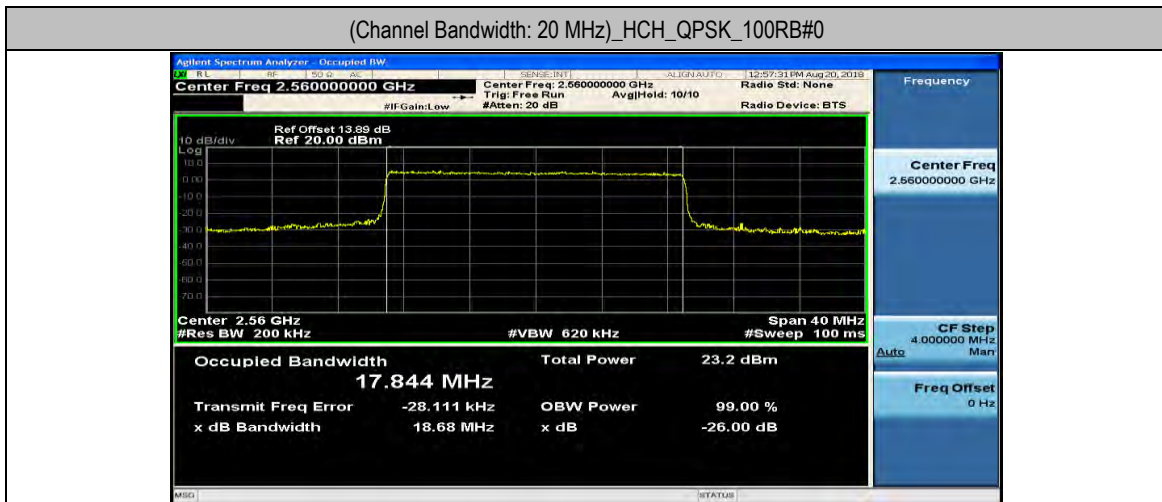
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(Channel Bandwidth: 20 MHz)_MCH_QPSK_100RB#0

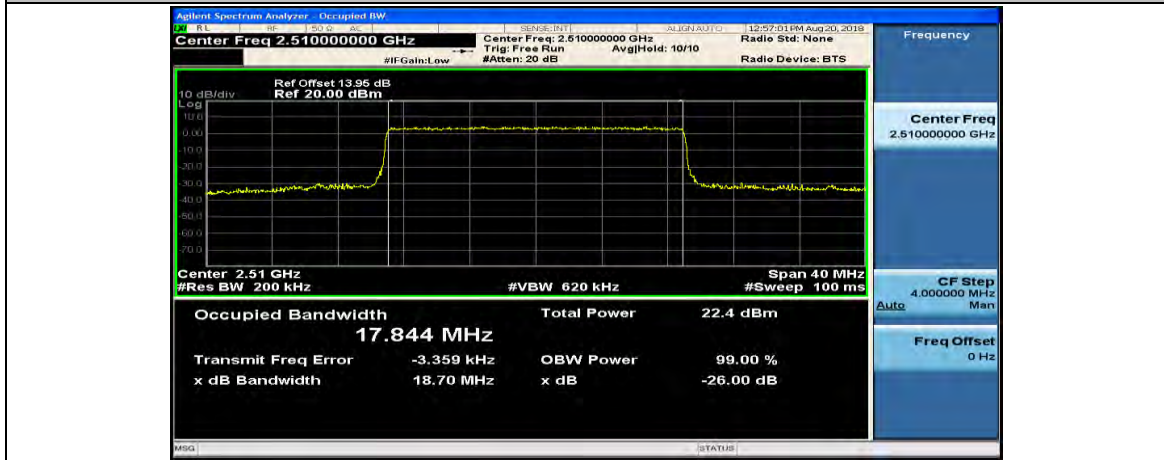


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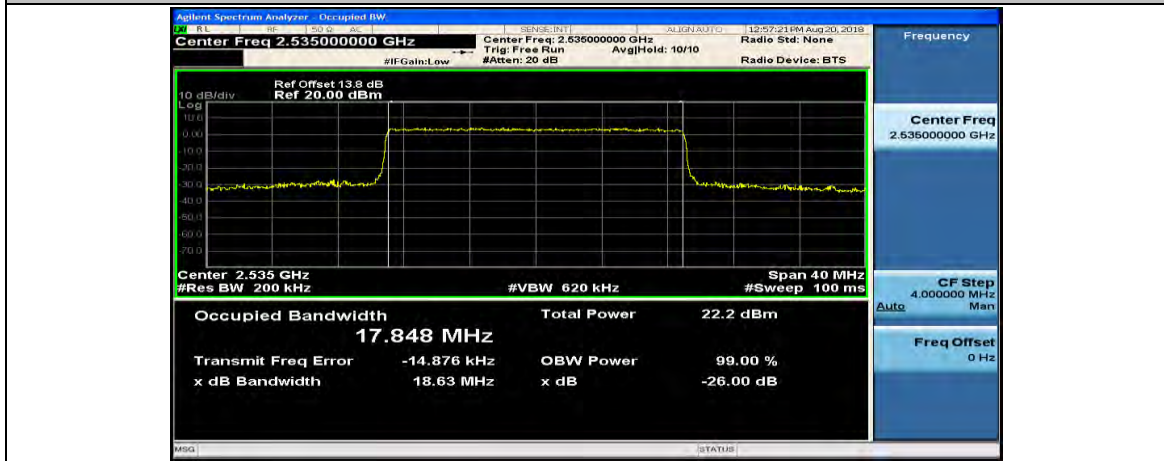




(Channel Bandwidth: 20 MHz)_LCH_16QAM_100RB#0



(Channel Bandwidth: 20 MHz)_MCH_16QAM_100RB#0



(Channel Bandwidth: 20 MHz)_HCH_16QAM_100RB#0

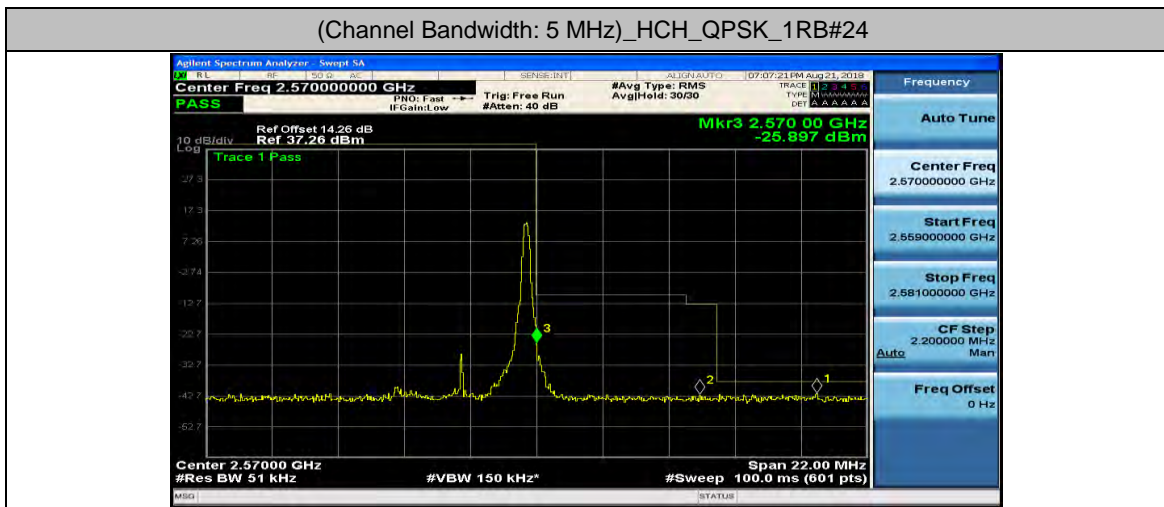
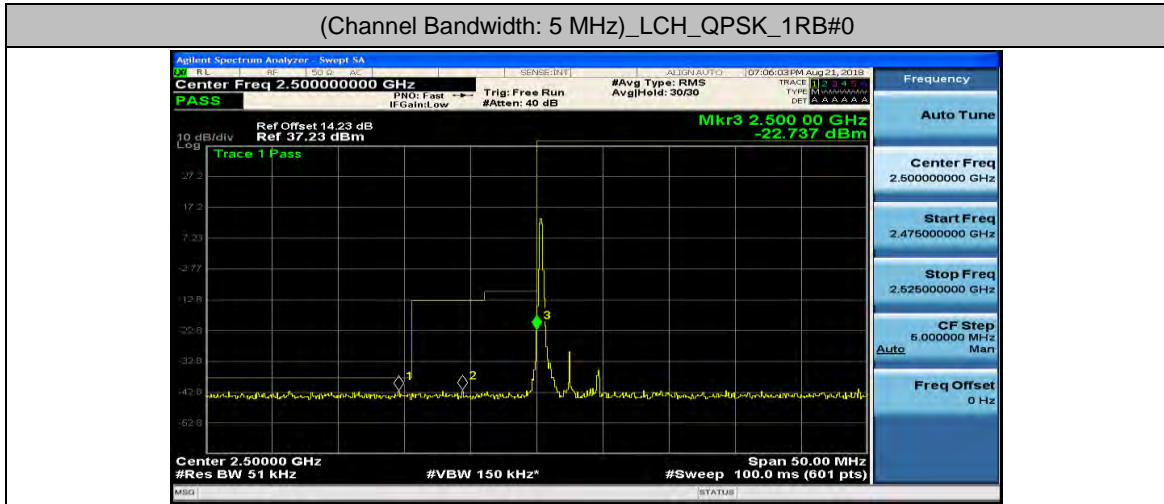




Appendix D: Band Edge

Test Graphs

Channel Bandwidth: 5 MHz



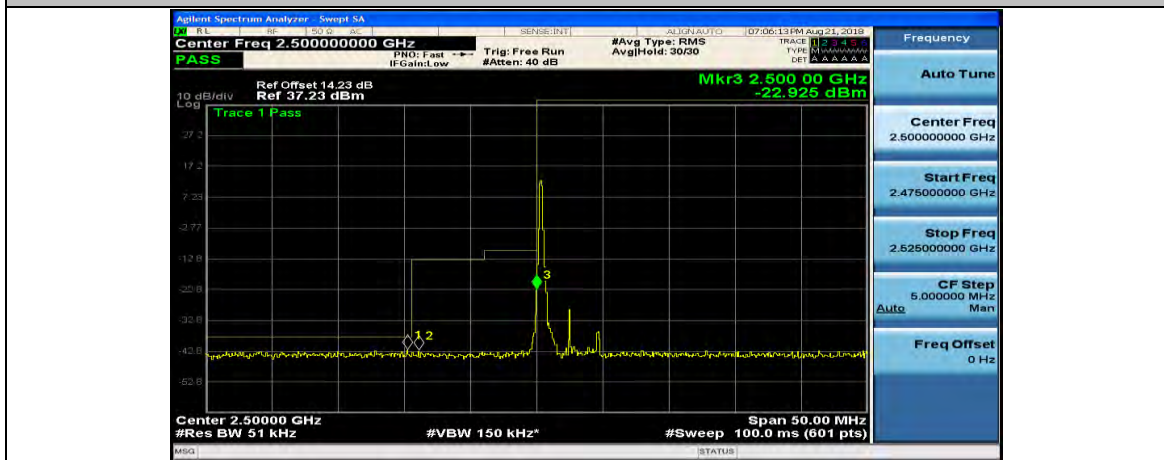
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(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

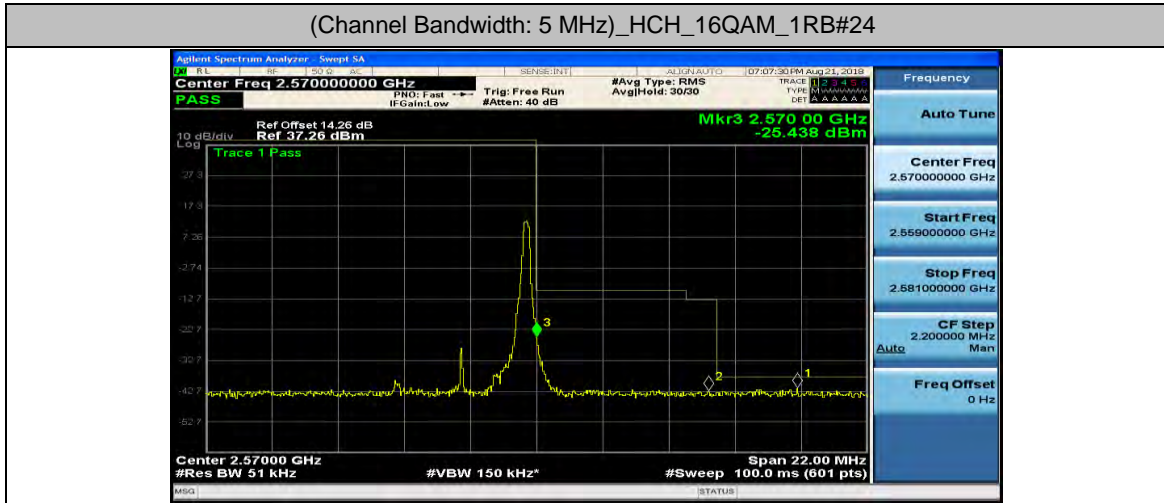


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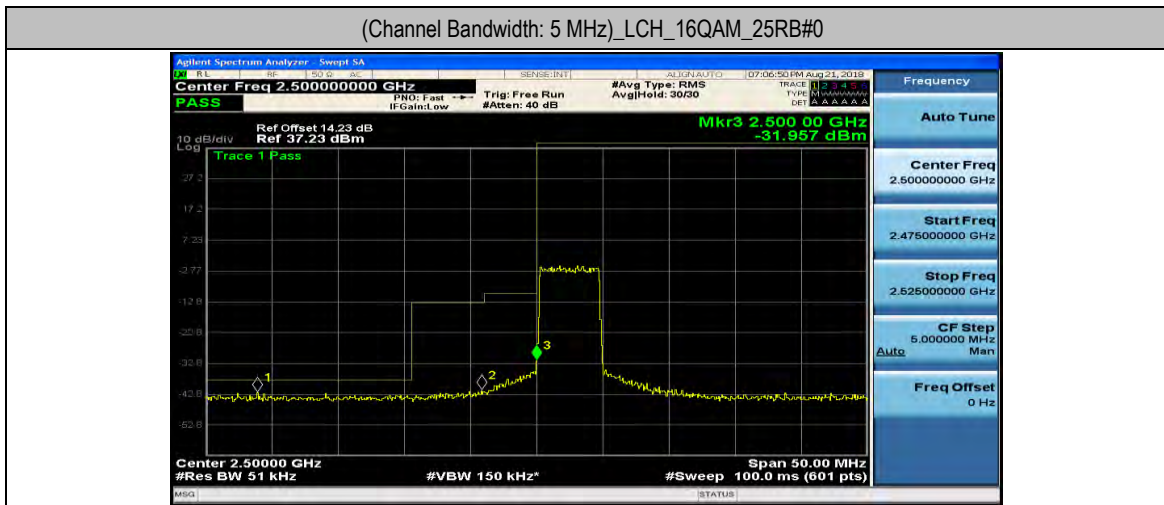




(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



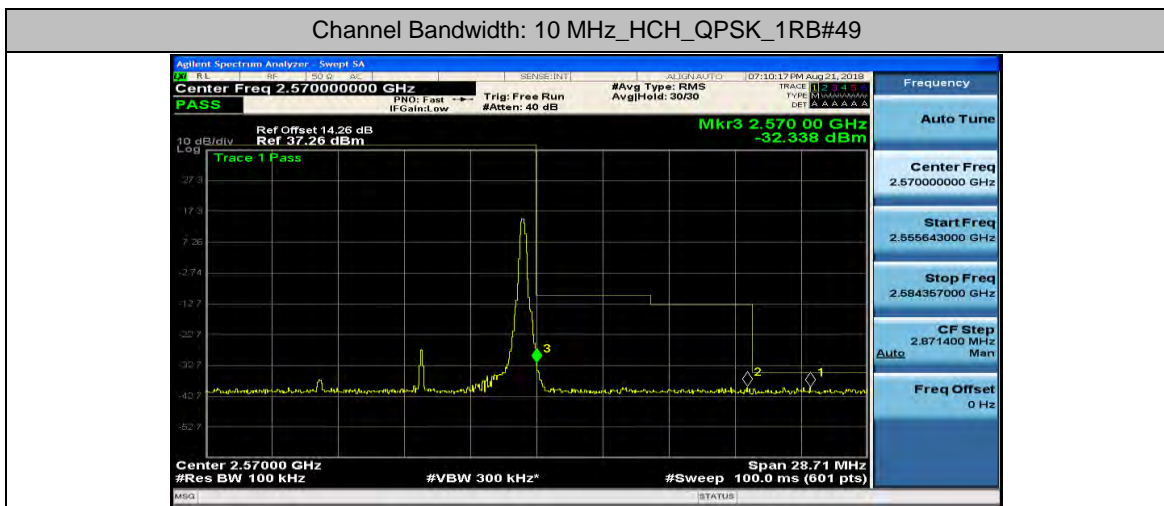
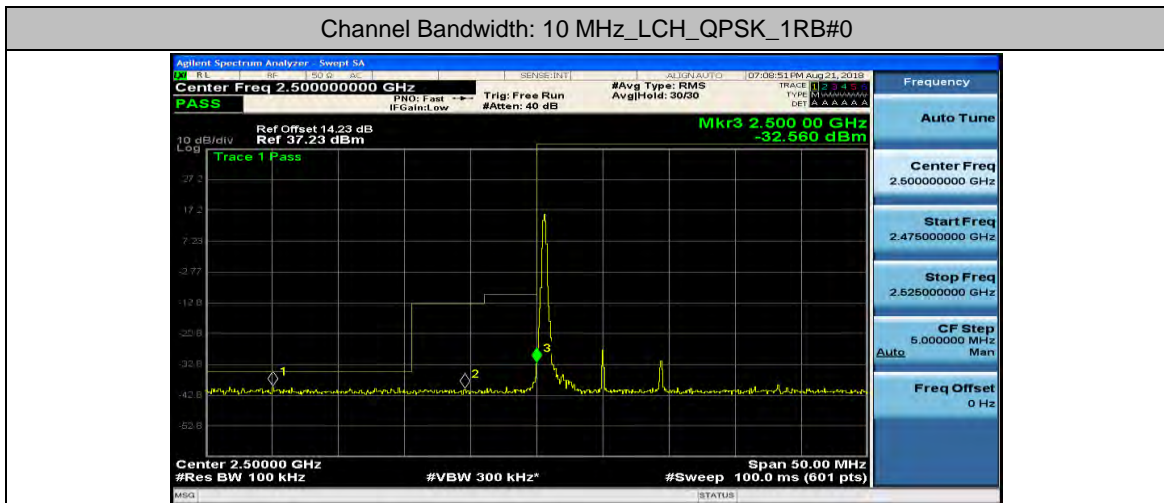
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(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

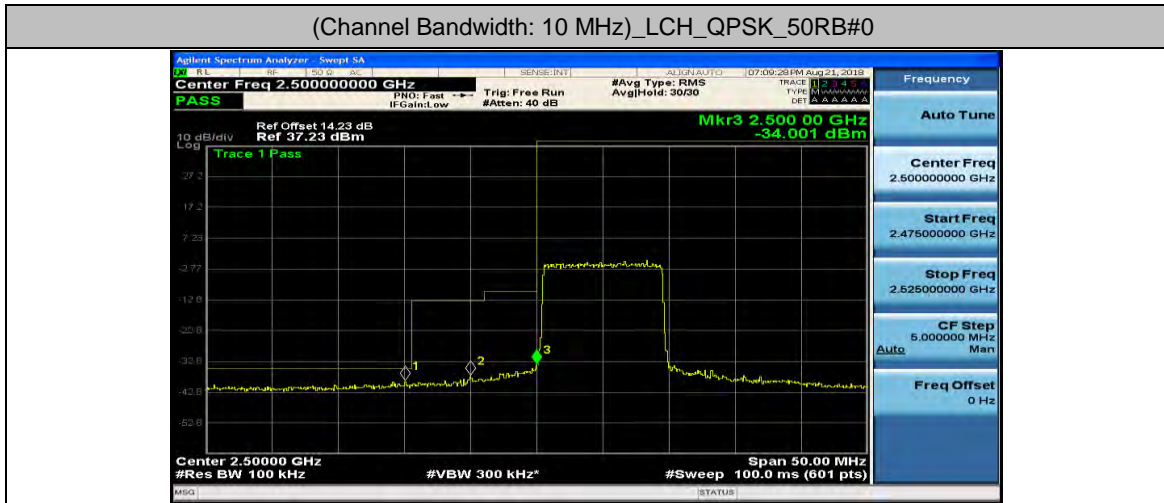


Channel Bandwidth: 10 MHz

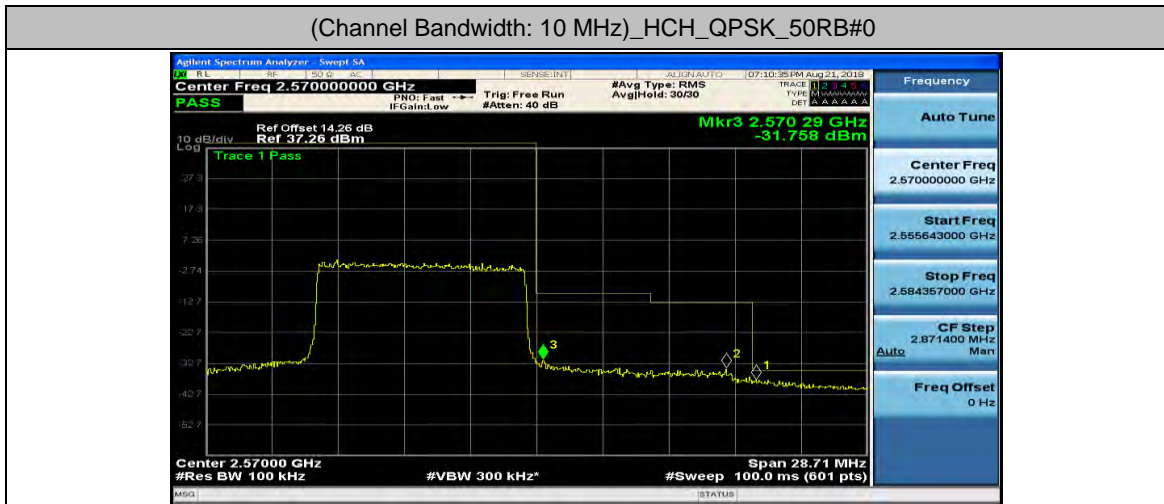




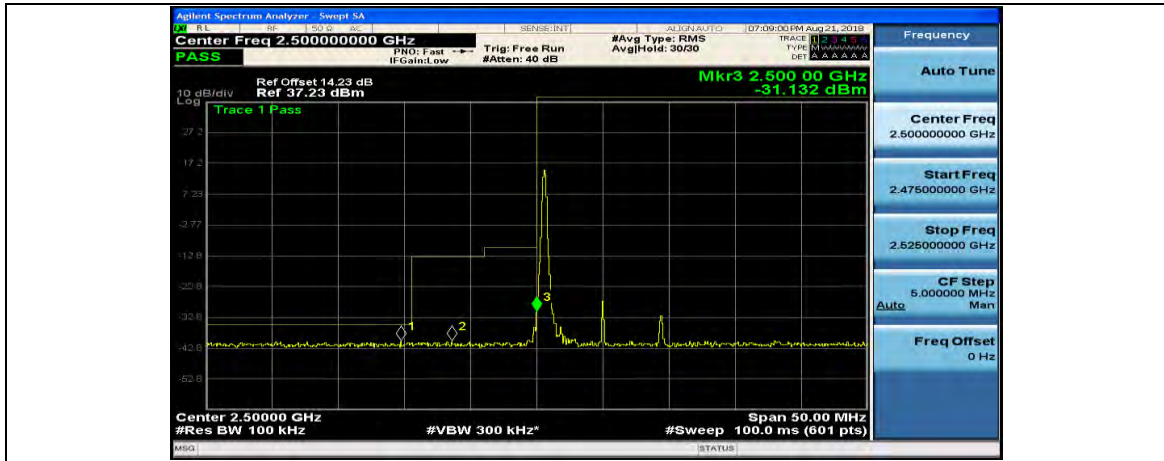
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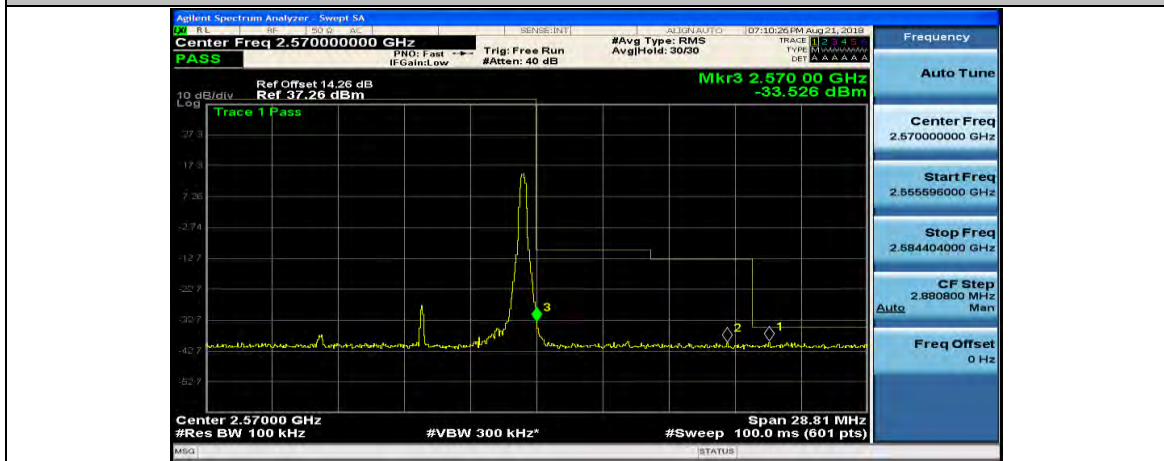
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Channel Bandwidth: 10 MHz)_LCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49

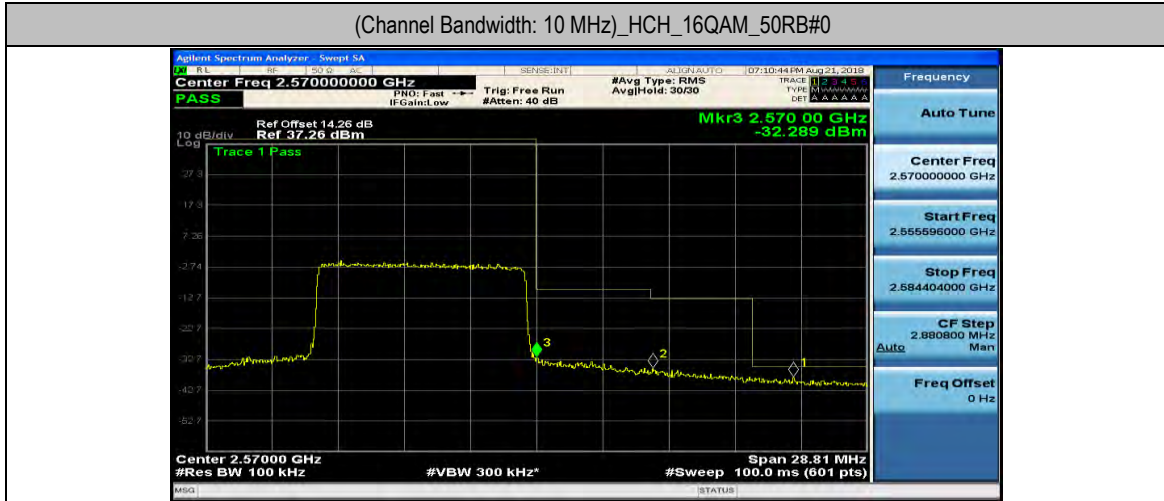


(Channel Bandwidth: 10 MHz)_LCH_16QAM_50RB#0



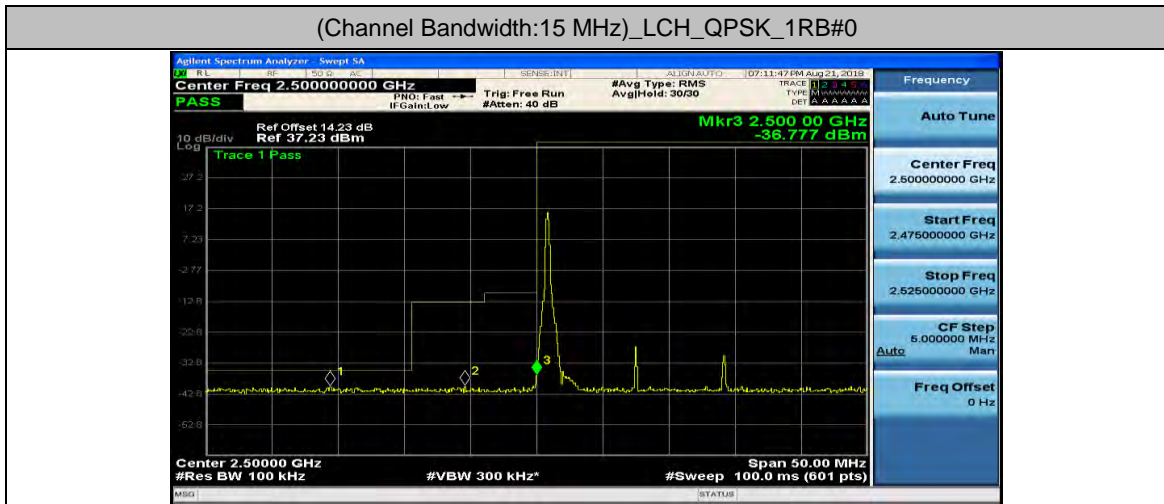


(Channel Bandwidth: 10 MHz)_HCH_16QAM_50RB#0

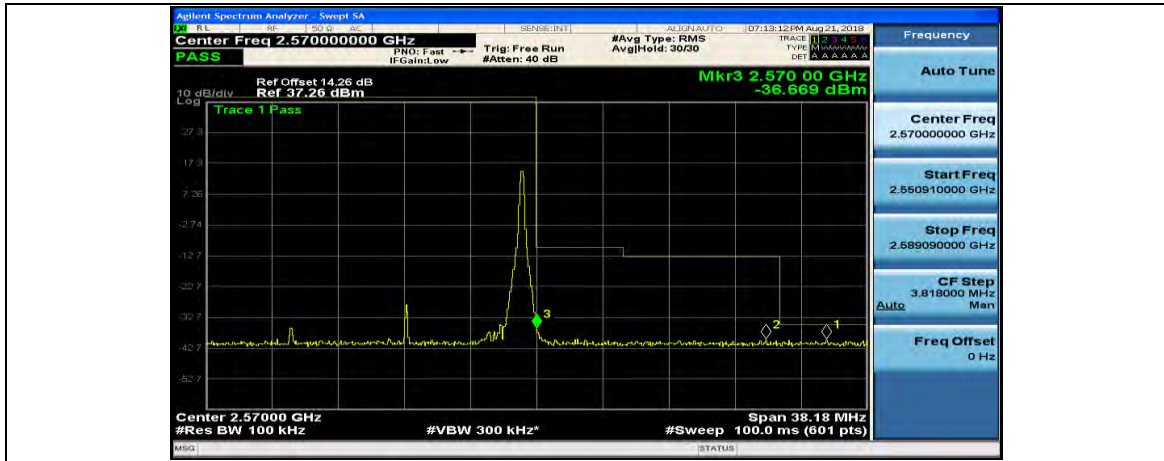


Channel Bandwidth: 15 MHz

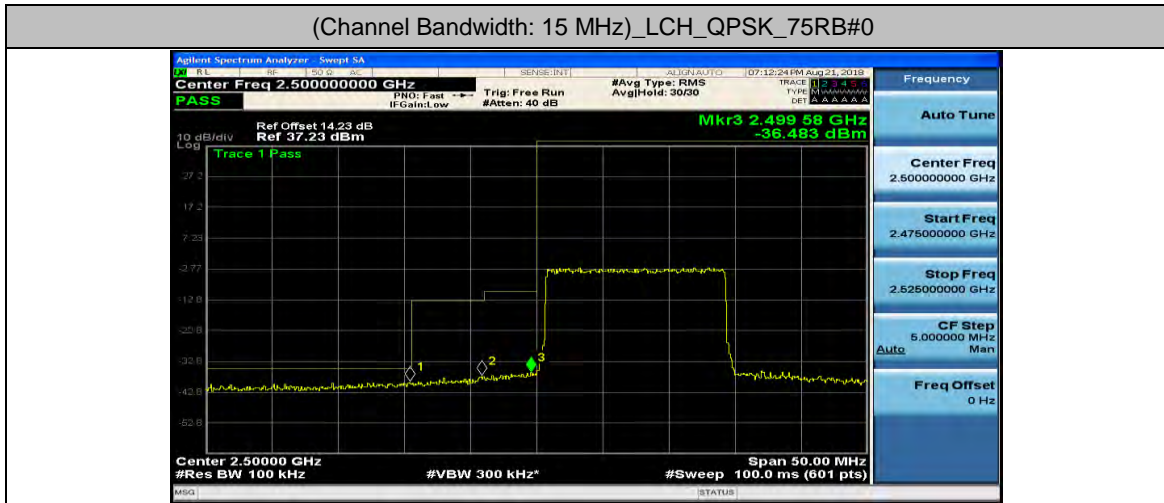
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#74



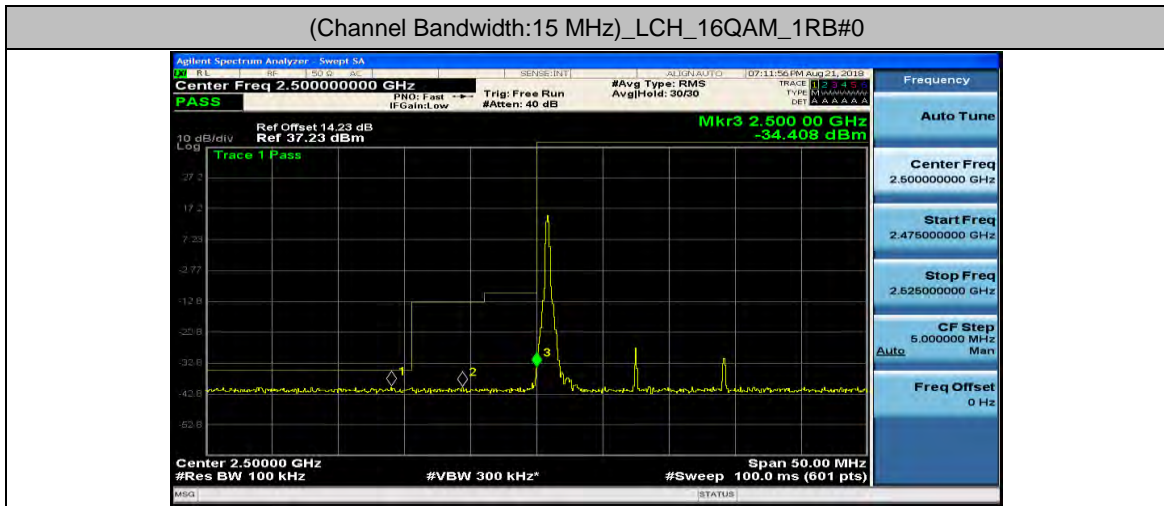
(Channel Bandwidth: 15 MHz)_LCH_QPSK_75RB#0



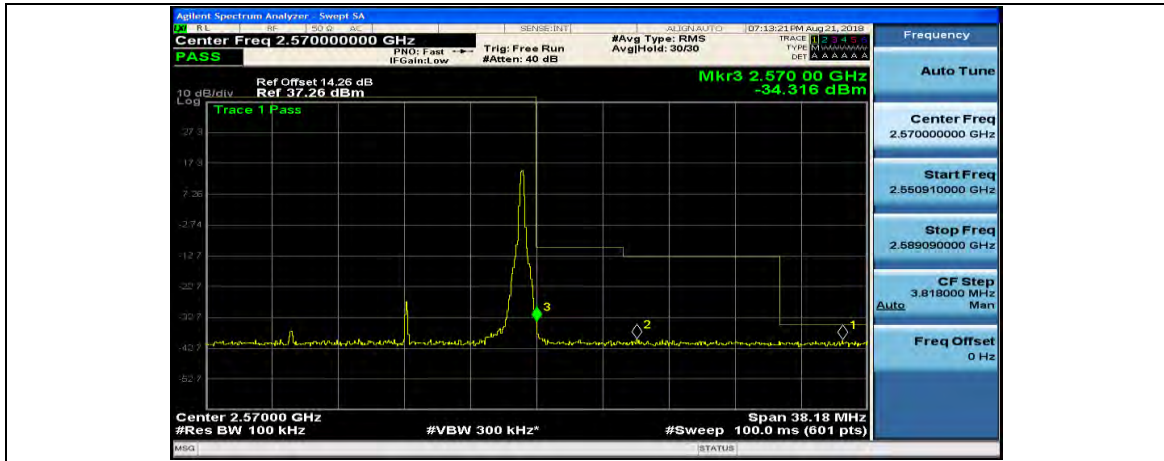
(Channel Bandwidth: 15 MHz)_HCH_QPSK_75RB#0



(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#74



(Channel Bandwidth: 15 MHz)_LCH_16QAM_75RB#0

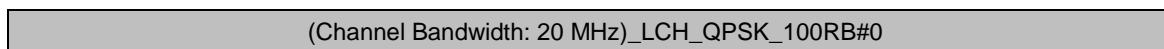
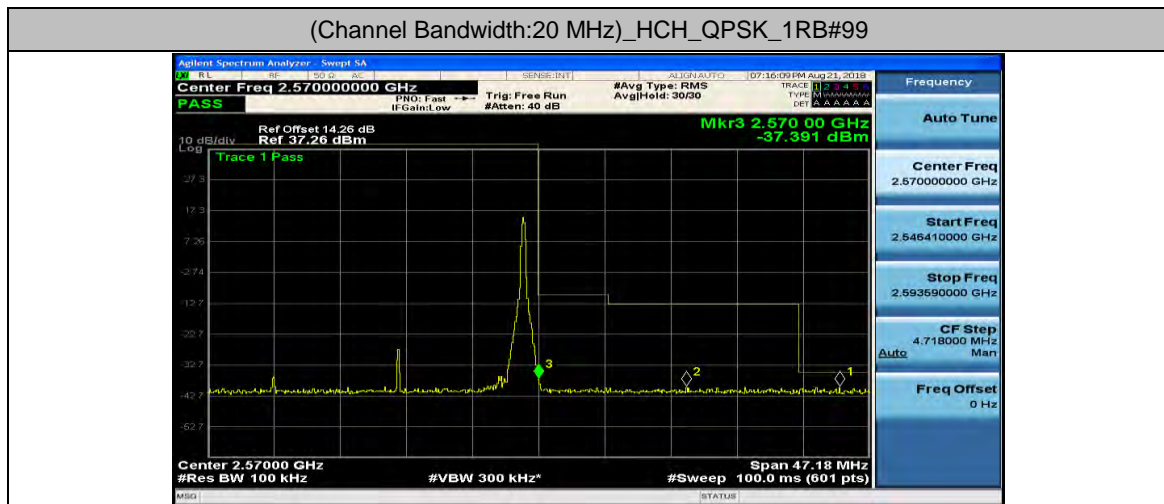
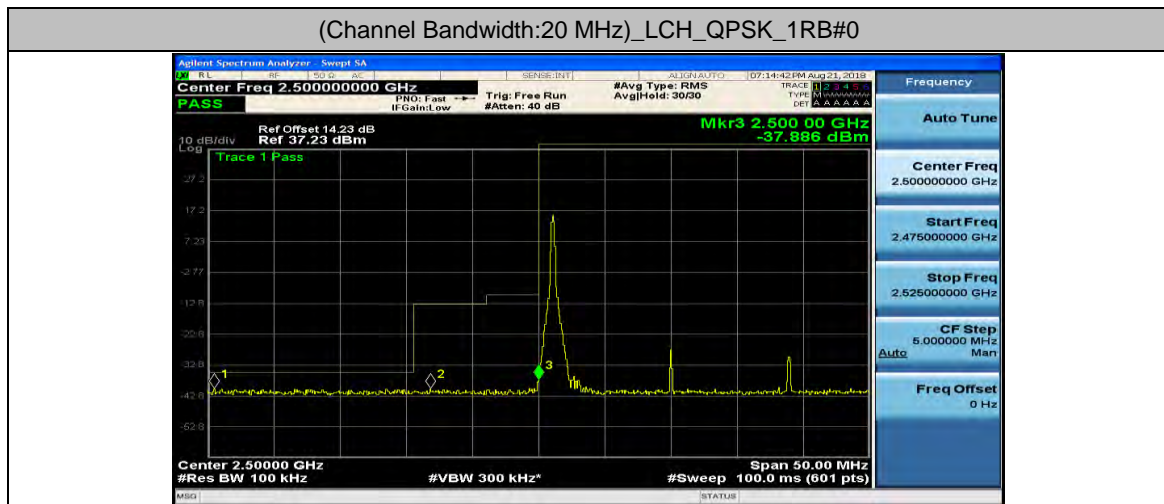


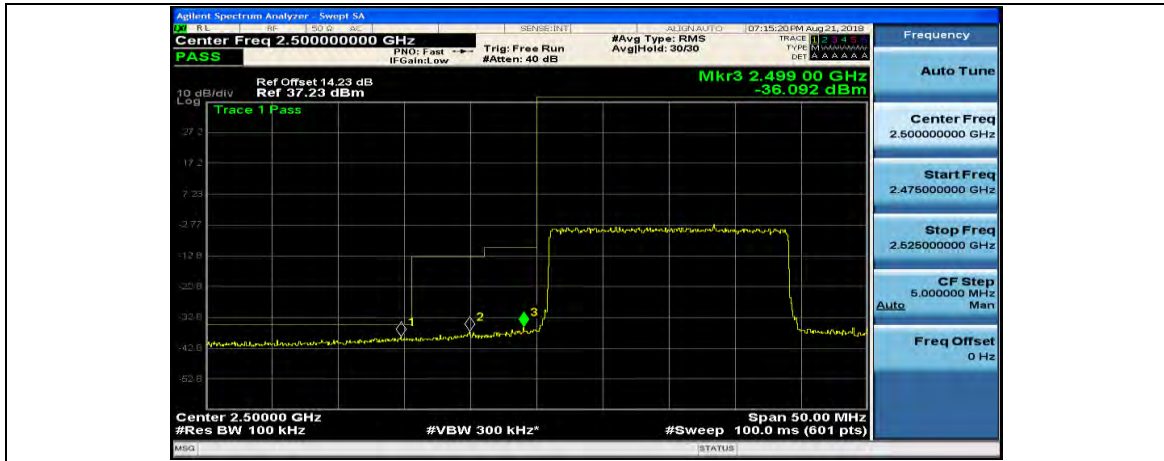
(Channel Bandwidth: 15 MHz)_HCH_16QAM_75RB#0



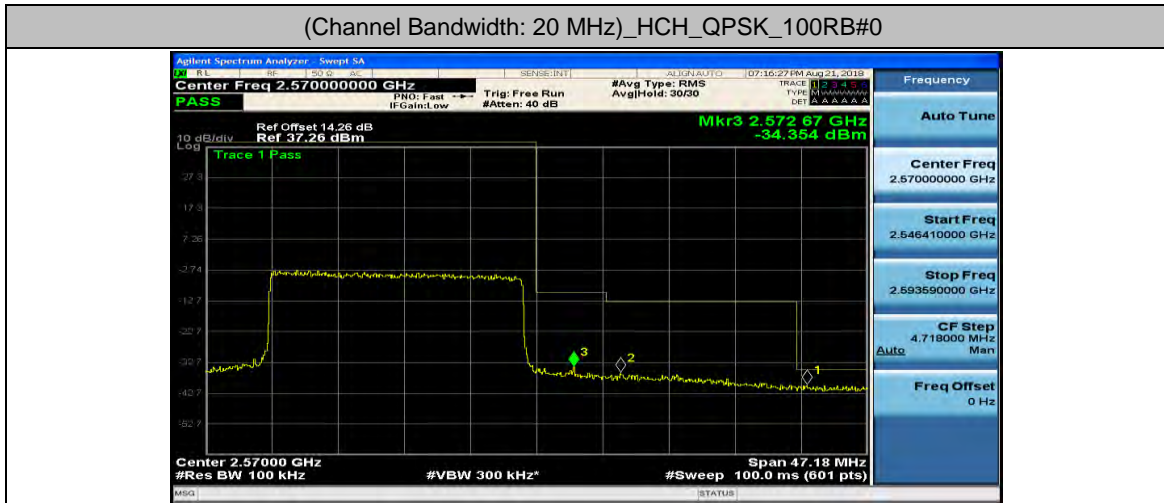


Channel Bandwidth: 20 MHz

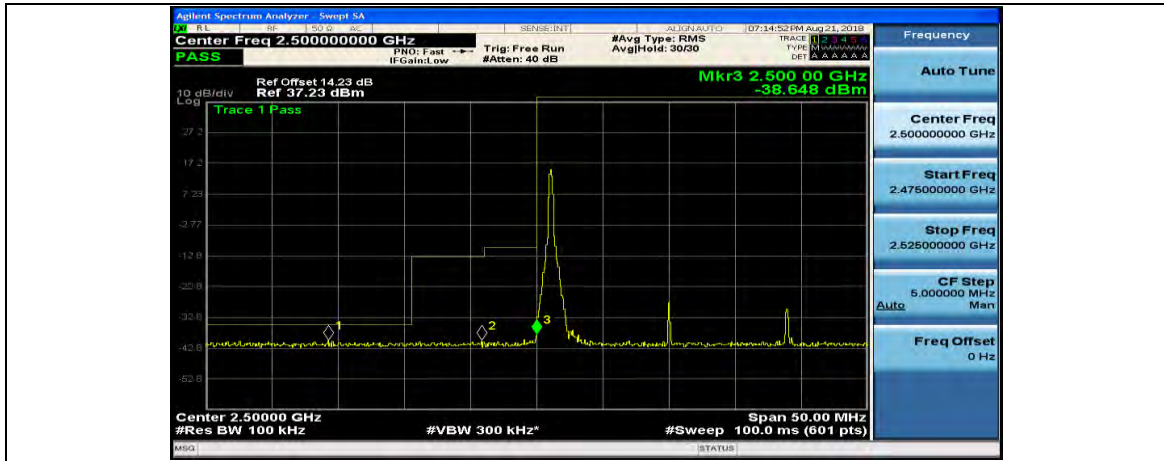




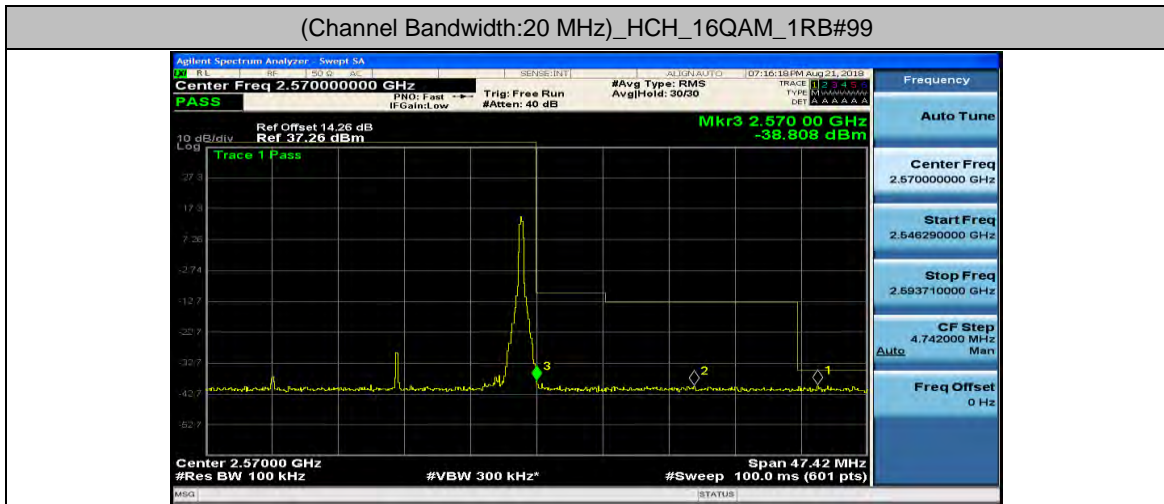
(Channel Bandwidth: 20 MHz)_HCH_QPSK_100RB#0



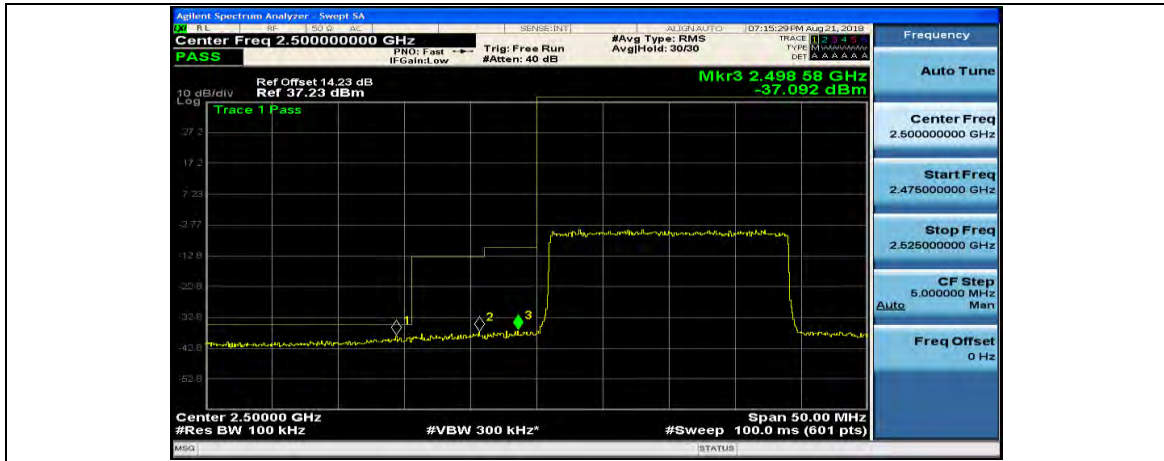
(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0



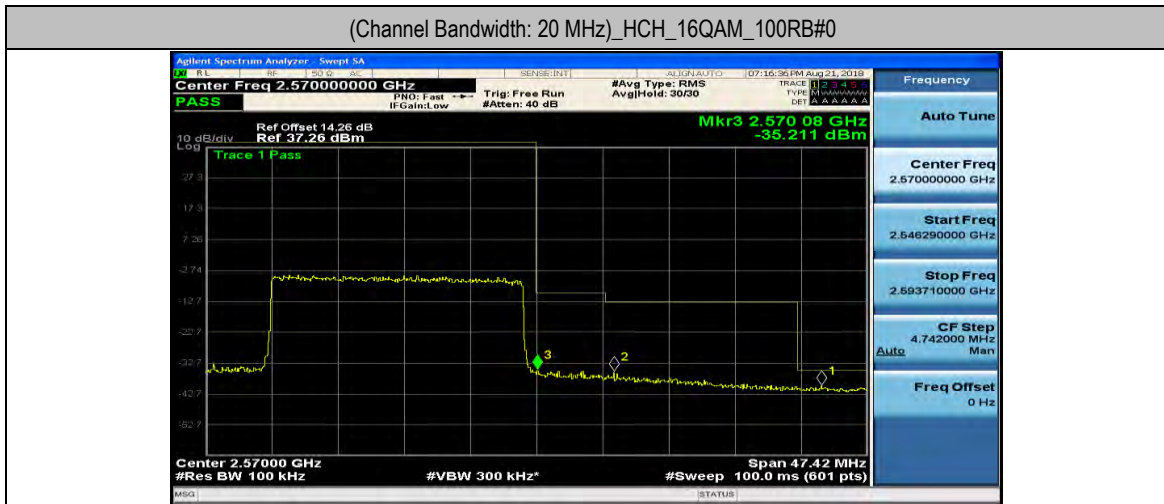
(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99

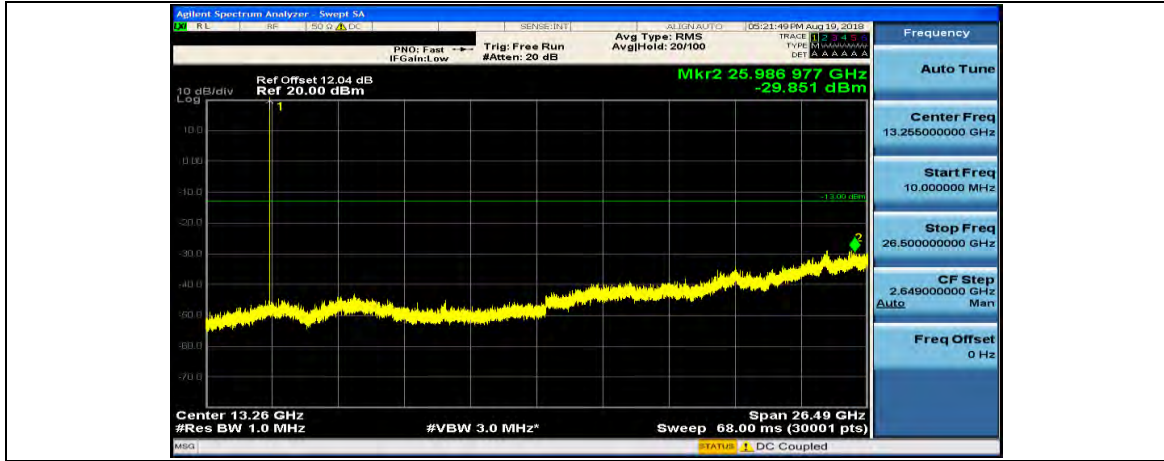


(Channel Bandwidth: 20 MHz)_LCH_16QAM_100RB#0

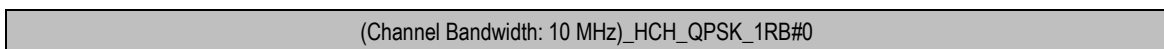
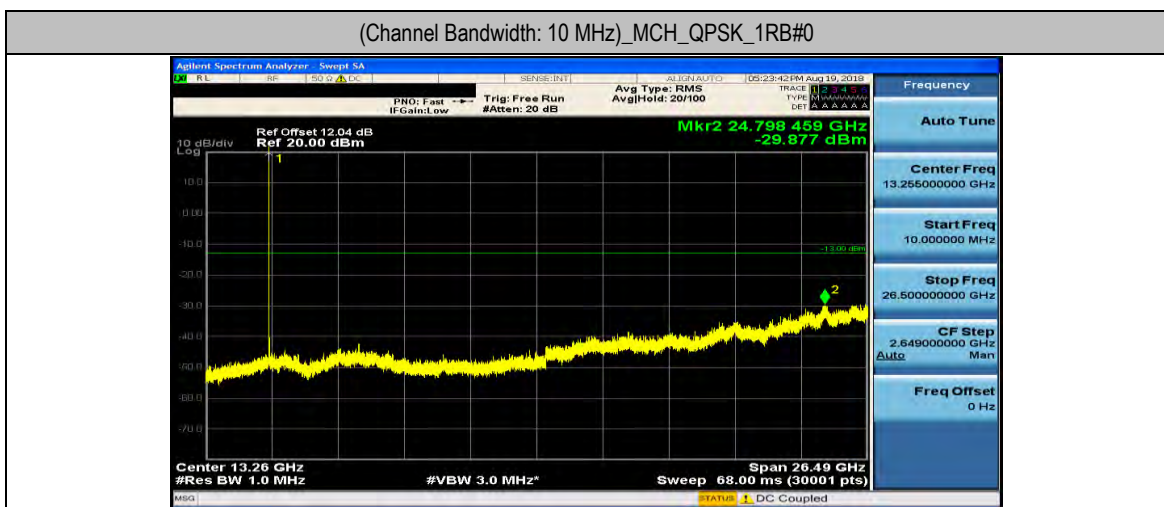
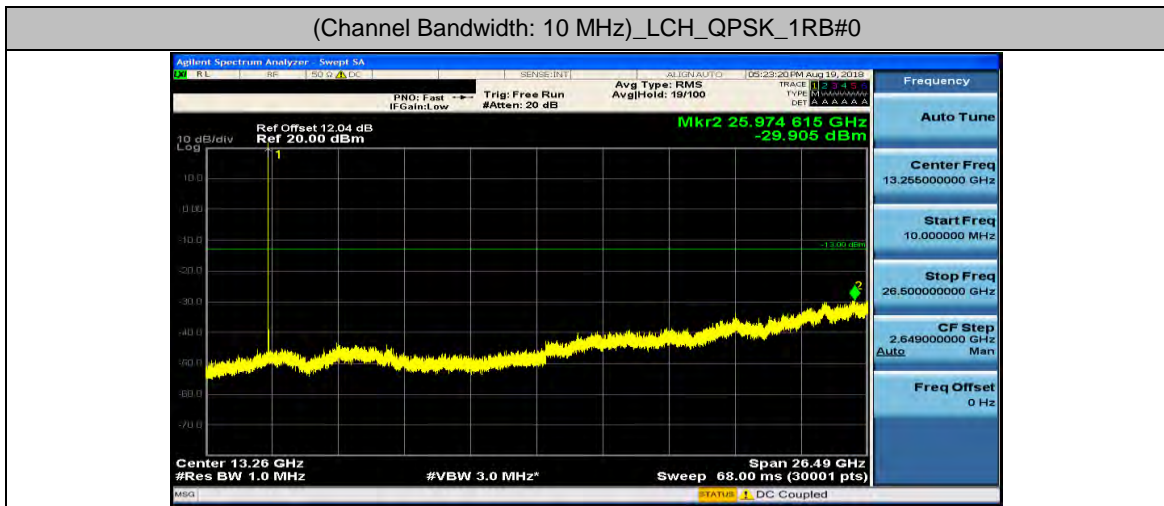


(Channel Bandwidth: 20 MHz)_HCH_16QAM_100RB#0





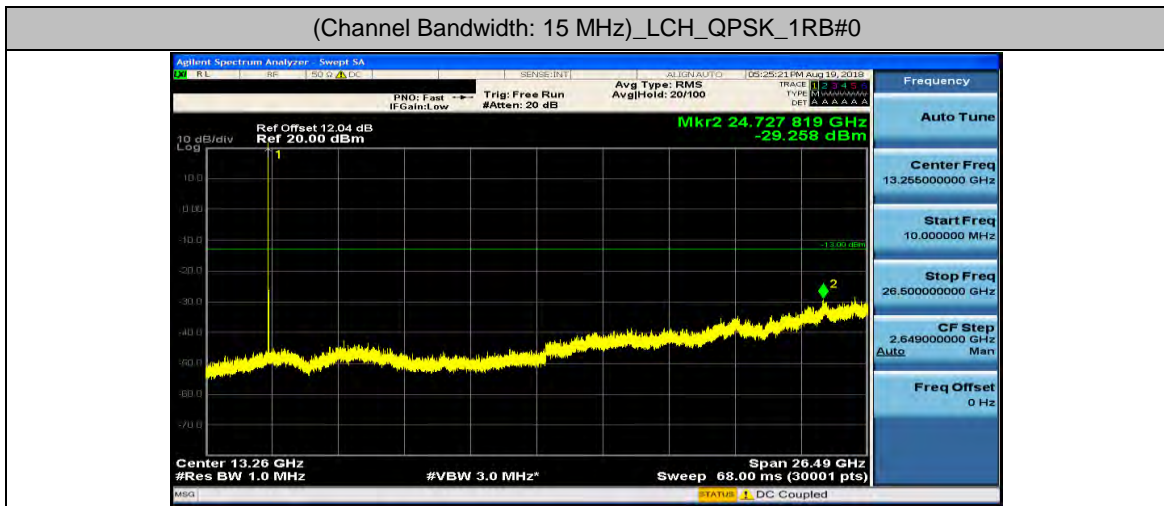
Channel Bandwidth: 10 MHz



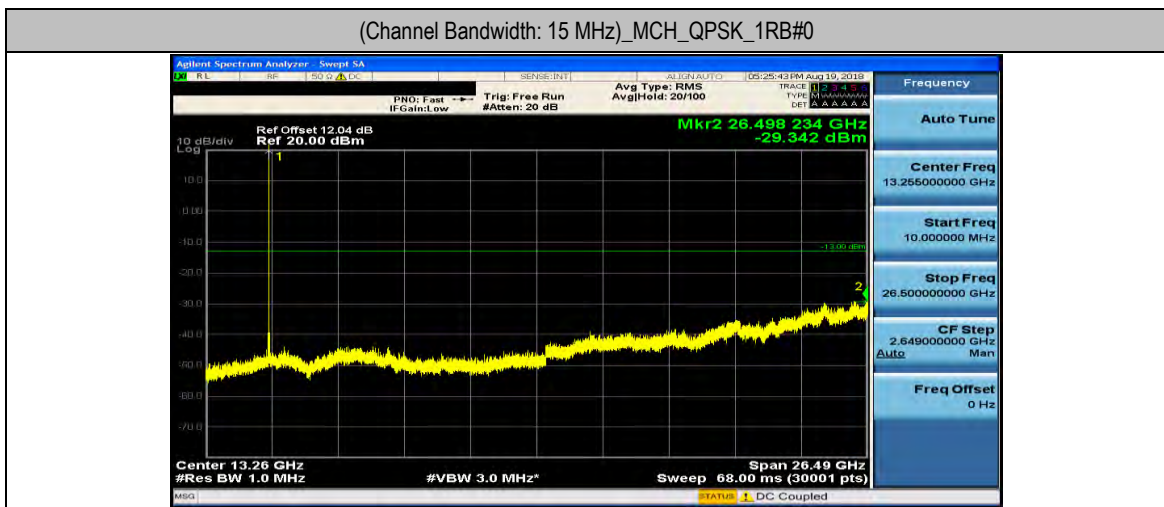


Channel Bandwidth: 15 MHz

(Channel Bandwidth: 15 MHz)_LCH_QPSK_1RB#0



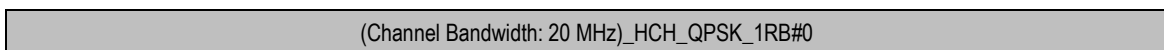
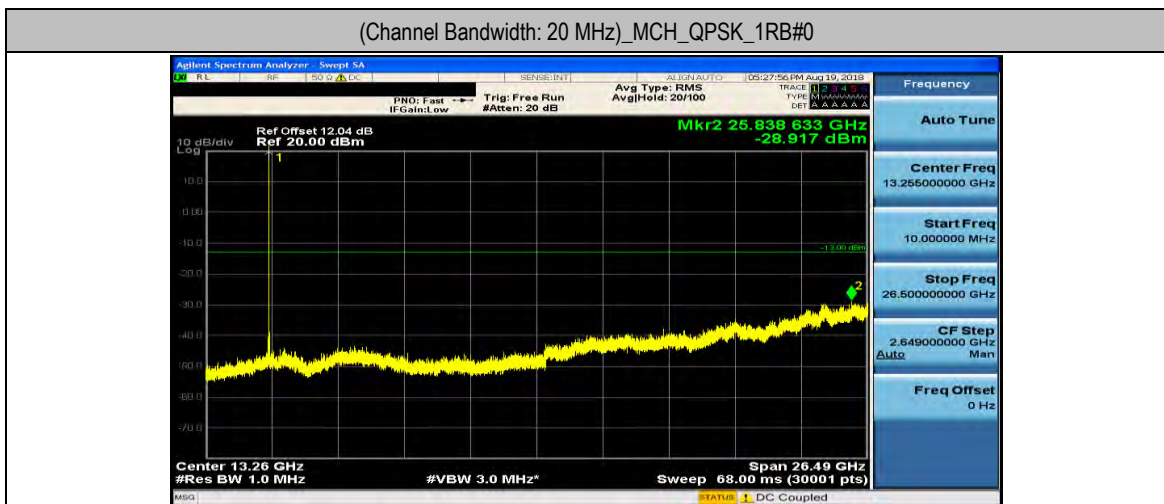
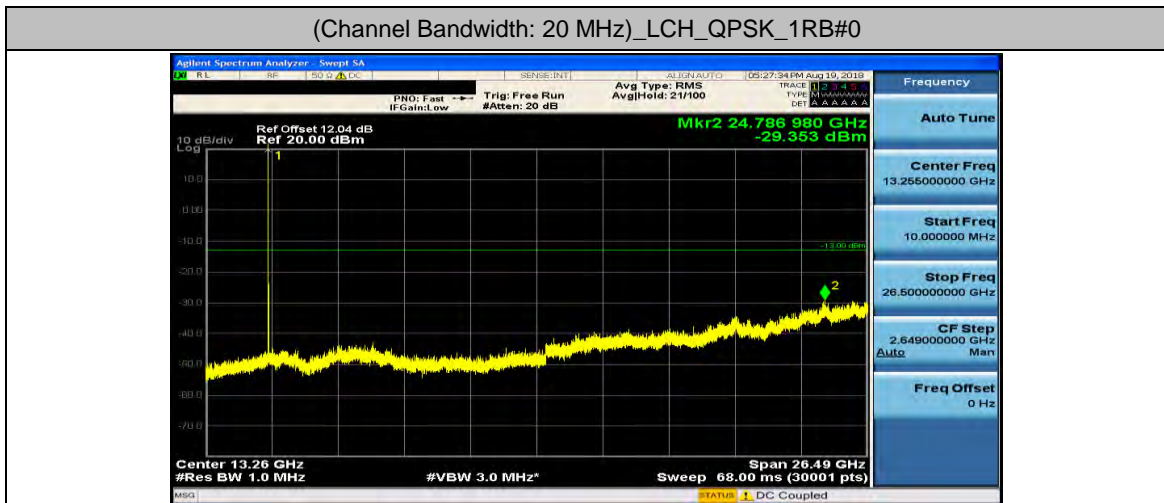
(Channel Bandwidth: 15 MHz)_MCH_QPSK_1RB#0

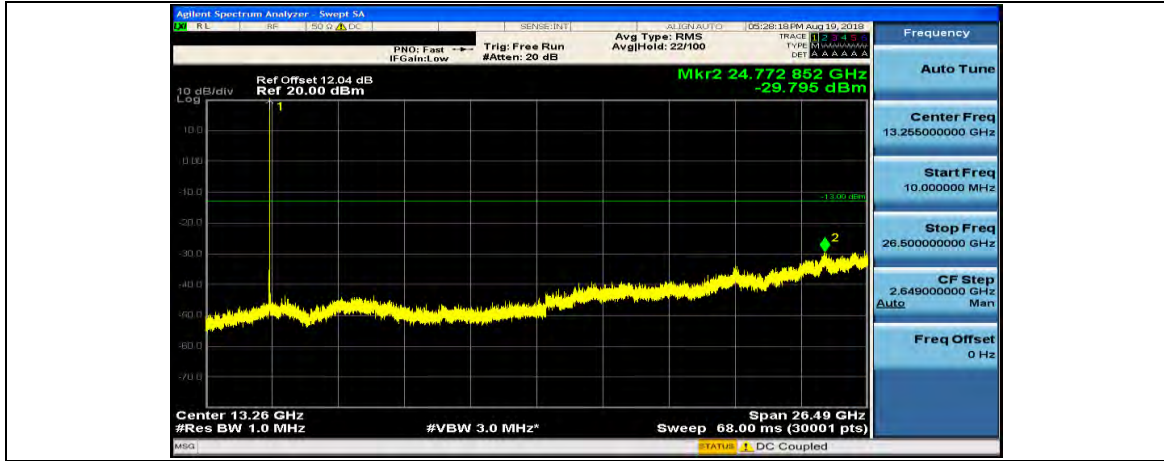


(Channel Bandwidth: 15 MHz)_HCH_QPSK_1RB#0



Channel Bandwidth: 20 MHz





Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

| Channel Bandwidth: 5 MHz | | | | | | | |
|--------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 2.50 | 0.000999 | ± 2.5 | PASS |
| | | VN | TN | 5.40 | 0.002158 | ± 2.5 | PASS |
| | | VH | TN | -0.50 | -0.000200 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.70 | 0.000276 | ± 2.5 | PASS |
| | | VN | TN | -3.60 | -0.001420 | ± 2.5 | PASS |
| | | VH | TN | -1.90 | -0.000750 | ± 2.5 | PASS |
| | HCH | VL | TN | 3.80 | 0.001480 | ± 2.5 | PASS |
| | | VN | TN | 1.10 | 0.000428 | ± 2.5 | PASS |
| | | VH | TN | 1.90 | 0.000740 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 3.20 | 0.001279 | ± 2.5 | PASS |
| | | VN | -20 | 4.90 | 0.001958 | ± 2.5 | PASS |
| | | VN | -10 | 0.40 | 0.000160 | ± 2.5 | PASS |
| | | VN | 0 | 2.60 | 0.001039 | ± 2.5 | PASS |
| | | VN | 10 | 0.40 | 0.000160 | ± 2.5 | PASS |
| | | VN | 20 | 2.20 | 0.000879 | ± 2.5 | PASS |
| | | VN | 30 | 0.50 | 0.000200 | ± 2.5 | PASS |
| | | VN | 40 | 0.90 | 0.000360 | ± 2.5 | PASS |
| | MCH | VN | -30 | 0.20 | 0.000079 | ± 2.5 | PASS |
| | | VN | -20 | -1.70 | -0.000671 | ± 2.5 | PASS |



| | | | | | | | |
|----|-----|------|----------|-----------|----------|-------|------|
| | VN | -10 | 0.80 | 0.000316 | ± 2.5 | PASS | |
| | | 0 | -0.80 | -0.000316 | ± 2.5 | PASS | |
| | | 10 | 0.10 | 0.000039 | ± 2.5 | PASS | |
| | | 20 | -1.40 | -0.000552 | ± 2.5 | PASS | |
| | | 30 | -1.00 | -0.000394 | ± 2.5 | PASS | |
| | | 40 | -3.60 | -0.001420 | ± 2.5 | PASS | |
| | | 50 | 0.70 | 0.000276 | ± 2.5 | PASS | |
| | HCH | VN | -30 | 3.80 | 0.001480 | ± 2.5 | PASS |
| | | VN | -20 | 1.90 | 0.000740 | ± 2.5 | PASS |
| | | VN | -10 | 0.60 | 0.000234 | ± 2.5 | PASS |
| | | VN | 0 | 5.00 | 0.001947 | ± 2.5 | PASS |
| | | VN | 10 | 1.40 | 0.000545 | ± 2.5 | PASS |
| | | VN | 20 | 4.40 | 0.001714 | ± 2.5 | PASS |
| | | VN | 30 | 1.50 | 0.000584 | ± 2.5 | PASS |
| | | VN | 40 | 1.80 | 0.000701 | ± 2.5 | PASS |
| VN | 50 | 1.20 | 0.000467 | ± 2.5 | PASS | | |

Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz | | | | | | | |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | -3.30 | -0.001317 | ± 2.5 | PASS |
| | | VN | TN | 1.10 | 0.000439 | ± 2.5 | PASS |
| | | VH | TN | 0.10 | 0.000040 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.60 | 0.000237 | ± 2.5 | PASS |
| | | VN | TN | 2.40 | 0.000947 | ± 2.5 | PASS |
| | | VH | TN | 4.20 | 0.001657 | ± 2.5 | PASS |
| | HCH | VL | TN | 4.80 | 0.001871 | ± 2.5 | PASS |
| | | VN | TN | 6.30 | 0.002456 | ± 2.5 | PASS |
| | | VH | TN | 2.60 | 0.001014 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | -2.20 | -0.000878 | ± 2.5 | PASS |
| | | VN | -20 | -3.30 | -0.001317 | ± 2.5 | PASS |
| | | VN | -10 | -1.60 | -0.000639 | ± 2.5 | PASS |
| | | VN | 0 | -2.60 | -0.001038 | ± 2.5 | PASS |
| | | VN | 10 | 0.20 | 0.000080 | ± 2.5 | PASS |
| | | VN | 20 | -3.60 | -0.001437 | ± 2.5 | PASS |
| | | VN | 30 | -0.90 | -0.000359 | ± 2.5 | PASS |
| | | VN | 40 | -0.20 | -0.000080 | ± 2.5 | PASS |
| | | VN | 50 | 0.40 | 0.000160 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.30 | 0.001302 | ± 2.5 | PASS |
| | | VN | -20 | 0.00 | 0.000000 | ± 2.5 | PASS |
| | | VN | -10 | 2.50 | 0.000986 | ± 2.5 | PASS |



| | | | | | | | |
|--|-----|----|-----|-------|-----------|-------|------|
| | | VN | 0 | 1.90 | 0.000750 | ± 2.5 | PASS |
| | | VN | 10 | -0.20 | -0.000079 | ± 2.5 | PASS |
| | | VN | 20 | 2.70 | 0.001065 | ± 2.5 | PASS |
| | | VN | 30 | 4.40 | 0.001736 | ± 2.5 | PASS |
| | | VN | 40 | 0.60 | 0.000237 | ± 2.5 | PASS |
| | | VN | 50 | 1.00 | 0.000394 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.60 | 0.001404 | ± 2.5 | PASS |
| | | VN | -20 | 2.40 | 0.000936 | ± 2.5 | PASS |
| | | VN | -10 | -0.20 | -0.000078 | ± 2.5 | PASS |
| | | VN | 0 | 1.10 | 0.000429 | ± 2.5 | PASS |
| | | VN | 10 | 0.40 | 0.000156 | ± 2.5 | PASS |
| | | VN | 20 | 4.70 | 0.001832 | ± 2.5 | PASS |
| | | VN | 30 | -0.40 | -0.000156 | ± 2.5 | PASS |
| | | VN | 40 | 3.40 | 0.001326 | ± 2.5 | PASS |
| | | VN | 50 | 3.20 | 0.001248 | ± 2.5 | PASS |

Channel Bandwidth: 15 MHz

| Channel Bandwidth: 15 MHz | | | | | | | |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | -0.50 | -0.000199 | ± 2.5 | PASS |
| | | VN | TN | 0.00 | 0.000000 | ± 2.5 | PASS |
| | | VH | TN | 1.40 | 0.000558 | ± 2.5 | PASS |
| | MCH | VL | TN | 0.40 | 0.000158 | ± 2.5 | PASS |
| | | VN | TN | 3.00 | 0.001183 | ± 2.5 | PASS |
| | | VH | TN | 3.40 | 0.001341 | ± 2.5 | PASS |
| | HCH | VL | TN | 1.70 | 0.000663 | ± 2.5 | PASS |
| | | VN | TN | 1.00 | 0.000390 | ± 2.5 | PASS |
| | | VH | TN | 1.30 | 0.000507 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 0.70 | 0.000279 | ± 2.5 | PASS |
| | | VN | -20 | -1.00 | -0.000399 | ± 2.5 | PASS |
| | | VN | -10 | 2.80 | 0.001117 | ± 2.5 | PASS |
| | | VN | 0 | 2.30 | 0.000917 | ± 2.5 | PASS |
| | | VN | 10 | 1.90 | 0.000758 | ± 2.5 | PASS |
| | | VN | 20 | 1.50 | 0.000598 | ± 2.5 | PASS |
| | | VN | 30 | 0.60 | 0.000239 | ± 2.5 | PASS |
| | | VN | 40 | 1.50 | 0.000598 | ± 2.5 | PASS |
| | | VN | 50 | -1.40 | -0.000558 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.60 | 0.001420 | ± 2.5 | PASS |
| | | VN | -20 | 1.30 | 0.000513 | ± 2.5 | PASS |
| | | VN | -10 | -0.10 | -0.000039 | ± 2.5 | PASS |
| | | VN | 0 | -1.10 | -0.000434 | ± 2.5 | PASS |



| | | | | | | | |
|--|-----|----|-----|-------|-----------|-------|------|
| | | VN | 10 | 4.60 | 0.001815 | ± 2.5 | PASS |
| | | VN | 20 | 1.20 | 0.000473 | ± 2.5 | PASS |
| | | VN | 30 | 1.00 | 0.000394 | ± 2.5 | PASS |
| | | VN | 40 | 2.10 | 0.000828 | ± 2.5 | PASS |
| | | VN | 50 | 1.00 | 0.000394 | ± 2.5 | PASS |
| | HCH | VN | -30 | 3.40 | 0.001327 | ± 2.5 | PASS |
| | | VN | -20 | 2.30 | 0.000898 | ± 2.5 | PASS |
| | | VN | -10 | -1.20 | -0.000468 | ± 2.5 | PASS |
| | | VN | 0 | 2.60 | 0.001015 | ± 2.5 | PASS |
| | | VN | 10 | 1.60 | 0.000624 | ± 2.5 | PASS |
| | | VN | 20 | 1.40 | 0.000546 | ± 2.5 | PASS |
| | | VN | 30 | 1.80 | 0.000702 | ± 2.5 | PASS |
| | | VN | 40 | 3.20 | 0.001249 | ± 2.5 | PASS |
| | | VN | 50 | 1.10 | 0.000429 | ± 2.5 | PASS |

Channel Bandwidth: 20 MHz

| Channel Bandwidth: 20 MHz | | | | | | | |
|---------------------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Voltage | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VL | TN | 3.20 | 0.001275 | ± 2.5 | PASS |
| | | VN | TN | -0.60 | -0.000239 | ± 2.5 | PASS |
| | | VH | TN | -0.30 | -0.000120 | ± 2.5 | PASS |
| | MCH | VL | TN | 2.60 | 0.001026 | ± 2.5 | PASS |
| | | VN | TN | 1.10 | 0.000434 | ± 2.5 | PASS |
| | | VH | TN | 5.80 | 0.002288 | ± 2.5 | PASS |
| | HCH | VL | TN | -0.30 | -0.000117 | ± 2.5 | PASS |
| | | VN | TN | -0.60 | -0.000234 | ± 2.5 | PASS |
| | | VH | TN | 1.00 | 0.000391 | ± 2.5 | PASS |
| Temperature | | | | | | | |
| Modulation | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| QPSK | LCH | VN | -30 | 1.30 | 0.000518 | ± 2.5 | PASS |
| | | VN | -20 | 1.50 | 0.000598 | ± 2.5 | PASS |
| | | VN | -10 | -0.30 | -0.000120 | ± 2.5 | PASS |
| | | VN | 0 | 3.40 | 0.001355 | ± 2.5 | PASS |
| | | VN | 10 | -1.30 | -0.000518 | ± 2.5 | PASS |
| | | VN | 20 | 1.90 | 0.000757 | ± 2.5 | PASS |
| | | VN | 30 | -1.60 | -0.000637 | ± 2.5 | PASS |
| | | VN | 40 | -0.60 | -0.000239 | ± 2.5 | PASS |
| | | VN | 50 | 1.40 | 0.000558 | ± 2.5 | PASS |
| | MCH | VN | -30 | 3.30 | 0.001302 | ± 2.5 | PASS |
| | | VN | -20 | 2.40 | 0.000947 | ± 2.5 | PASS |
| | | VN | -10 | 2.40 | 0.000947 | ± 2.5 | PASS |
| | | VN | 0 | 3.00 | 0.001183 | ± 2.5 | PASS |
| | | VN | 10 | 1.20 | 0.000473 | ± 2.5 | PASS |



| | | | | | | | |
|--|-----|----|-----|-------|-----------|-------|------|
| | | VN | 20 | 1.10 | 0.000434 | ± 2.5 | PASS |
| | | VN | 30 | 1.60 | 0.000631 | ± 2.5 | PASS |
| | | VN | 40 | 6.10 | 0.002406 | ± 2.5 | PASS |
| | | VN | 50 | 1.80 | 0.000710 | ± 2.5 | PASS |
| | HCH | VN | -30 | -1.90 | -0.000742 | ± 2.5 | PASS |
| | | VN | -20 | -2.60 | -0.001016 | ± 2.5 | PASS |
| | | VN | -10 | 0.40 | 0.000156 | ± 2.5 | PASS |
| | | VN | 0 | -2.70 | -0.001055 | ± 2.5 | PASS |
| | | VN | 10 | -2.20 | -0.000859 | ± 2.5 | PASS |
| | | VN | 20 | 1.20 | 0.000469 | ± 2.5 | PASS |
| | | VN | 30 | -2.50 | -0.000977 | ± 2.5 | PASS |
| | | VN | 40 | 1.10 | 0.000430 | ± 2.5 | PASS |
| | | VN | 50 | -1.40 | -0.000547 | ± 2.5 | PASS |
| | | | | | | | |