



26dB Bandwidth and Occupied Bandwidth

Test Result

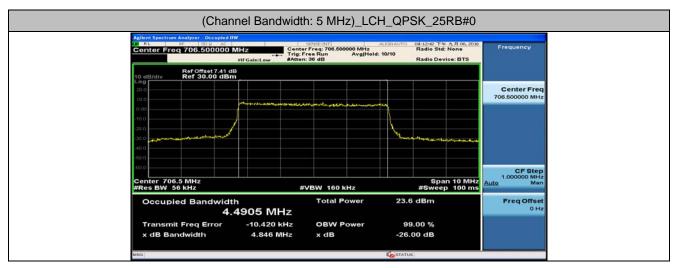
Channel Bandwidth: 5 MHz

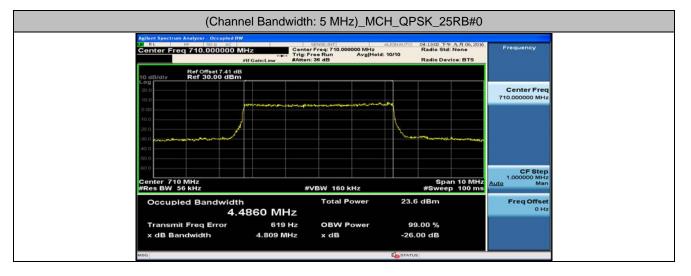
| Channel Bandwidth: 5 MHz | | | | | | | |
|--------------------------|---------|------------------|--------|--------------------|----------------|---------|--|
| Modulation | Channel | RB Configuration | | Occupied Bandwidth | 26dB Bandwidth | Verdict | |
| | | Size | Offset | (MHz) | (MHz) | verdict | |
| OPOK | LCH | 15 | 0 | 4.4905 | 4.846 | PASS | |
| QPSK | MCH | 15 | 0 | 4.4860 | 4.809 | PASS | |
| | HCH | 15 | 0 | 4.4905 | 4.825 | PASS | |
| | LCH | 15 | 0 | 4.4907 | 4.822 | PASS | |
| 16QAM | MCH | 15 | 0 | 4.4918 | 4.830 | PASS | |
| | HCH | 15 | 0 | 4.4840 | 4.849 | PASS | |

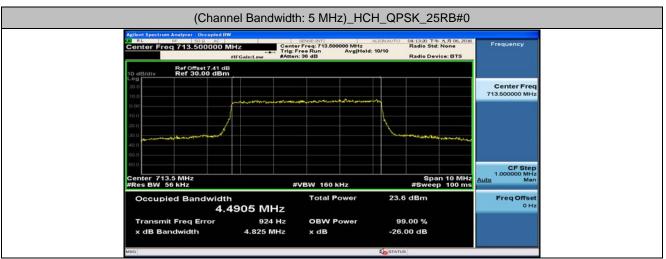
| Channel Bandwidth:10 MHz | | | | | | |
|--------------------------|---------|------------------|--------|--------------------|----------------|---------|
| Modulation | Channel | RB Configuration | | Occupied Bandwidth | 26dB Bandwidth | Verdict |
| Woddiation | | Size | Offset | (MHz) | (MHz) | verdict |
| QPSK | LCH | 50 | 0 | 8.9740 | 9.488 | PASS |
| QPSK | MCH | 50 | 0 | 8.9770 | 9.591 | PASS |
| | HCH | 50 | 0 | 8.9513 | 9.473 | PASS |
| | LCH | 50 | 0 | 8.9716 | 9.560 | PASS |
| 16QAM | MCH | 50 | 0 | 8.9662 | 9.494 | PASS |
| | HCH | 50 | 0 | 8.9608 | 9.410 | PASS |



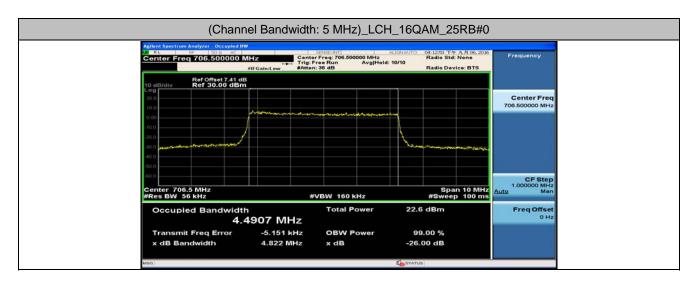
Test Graphs

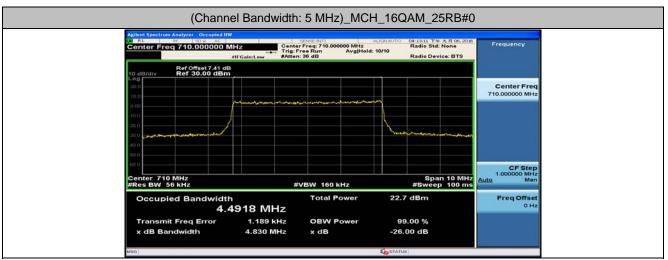


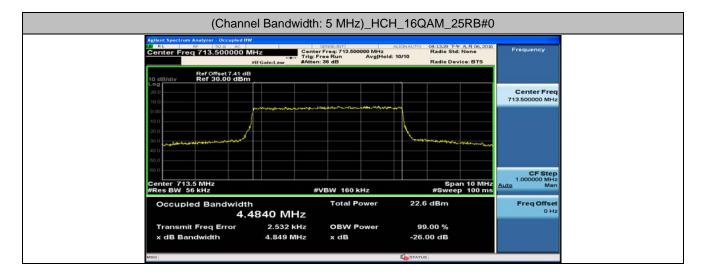




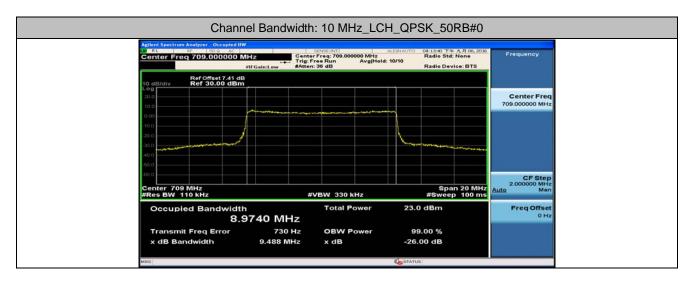


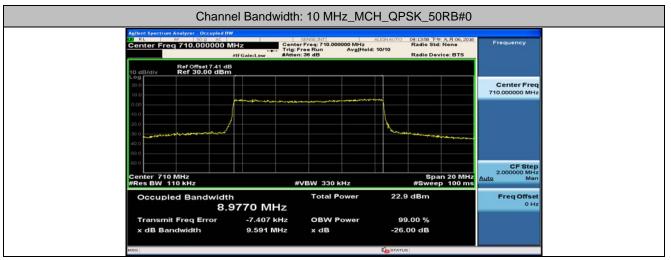


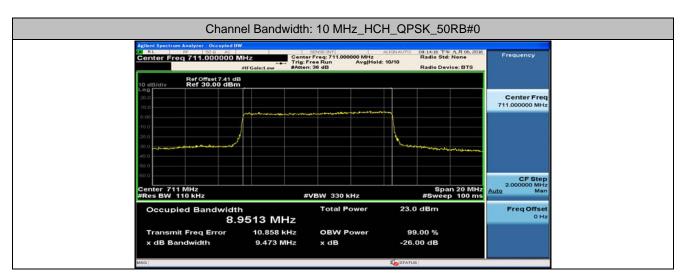




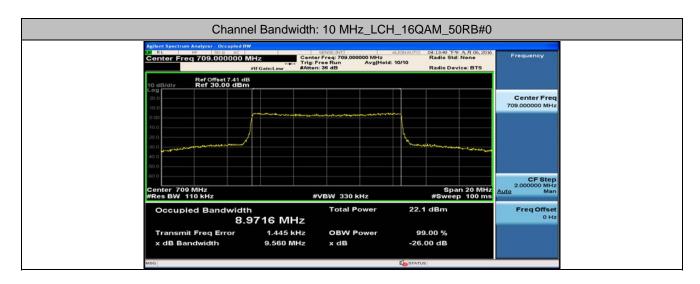


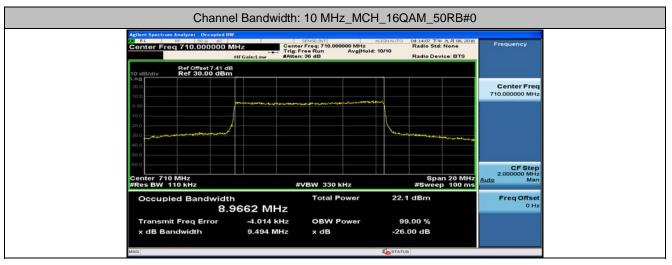


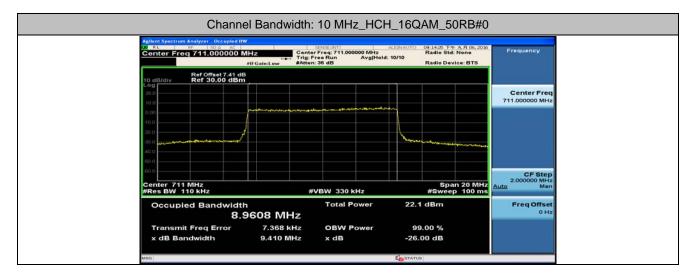








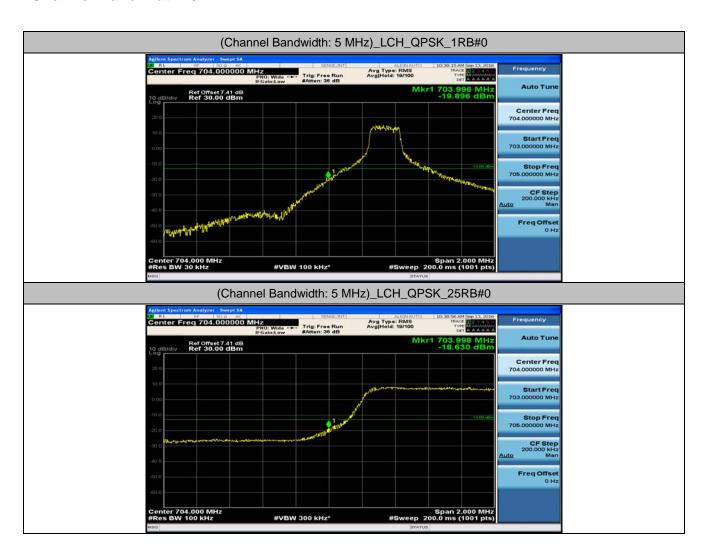




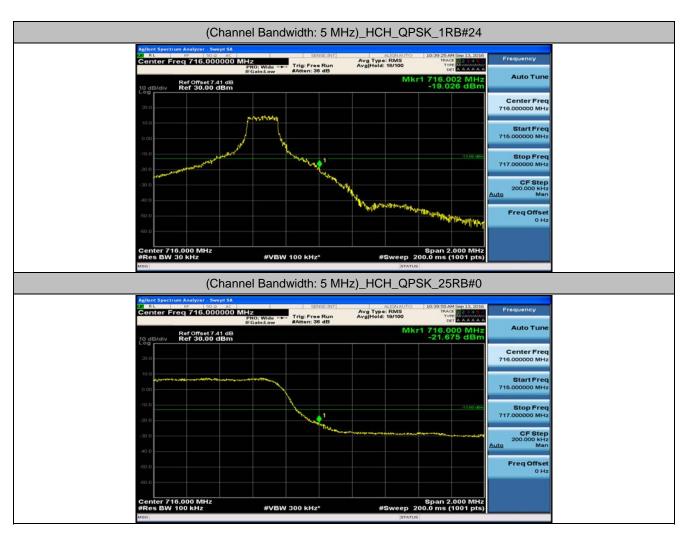


Band Edge

Test Graphs

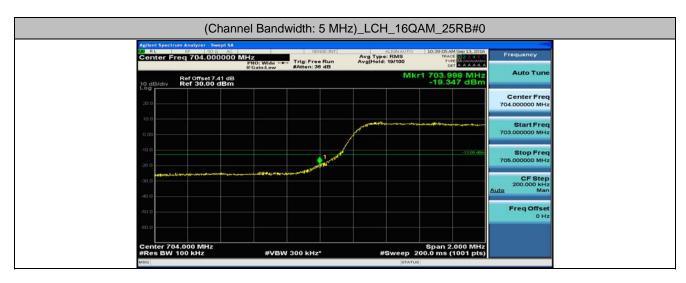


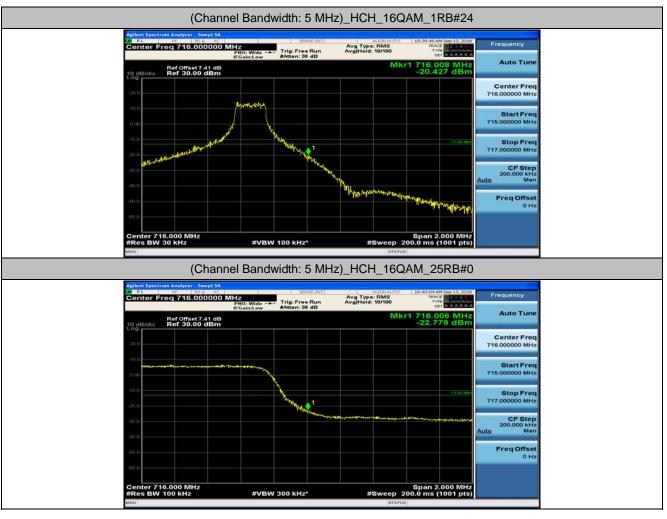




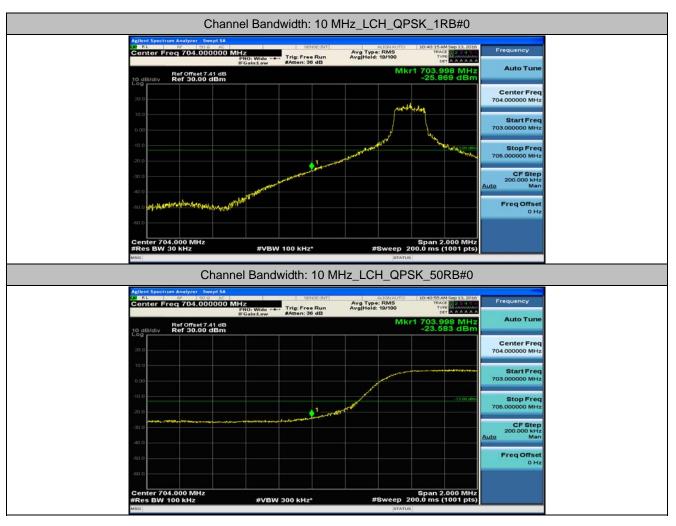


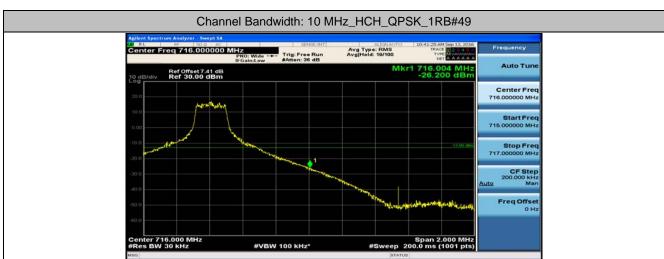




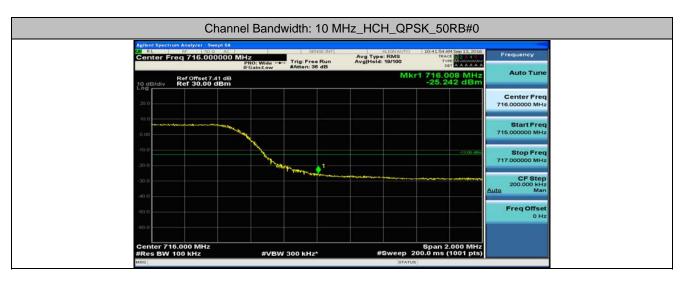


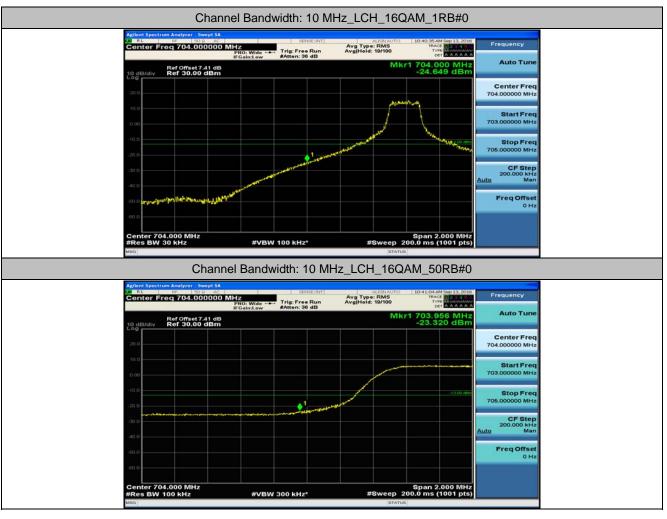




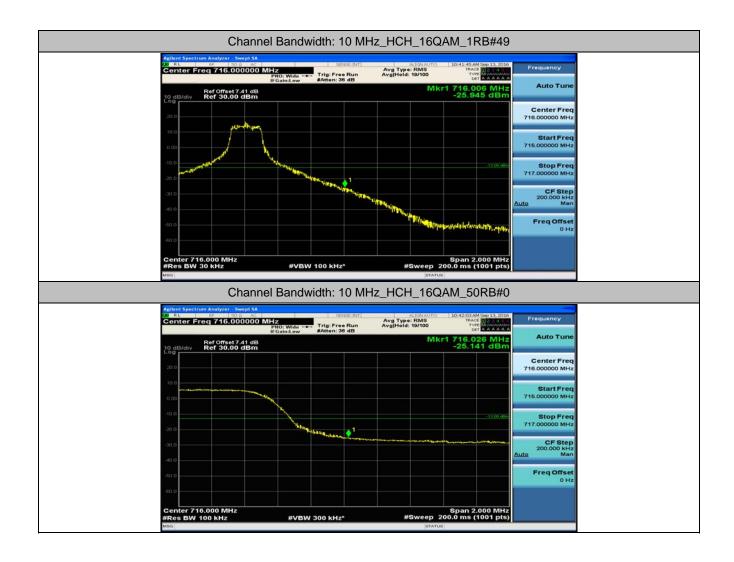








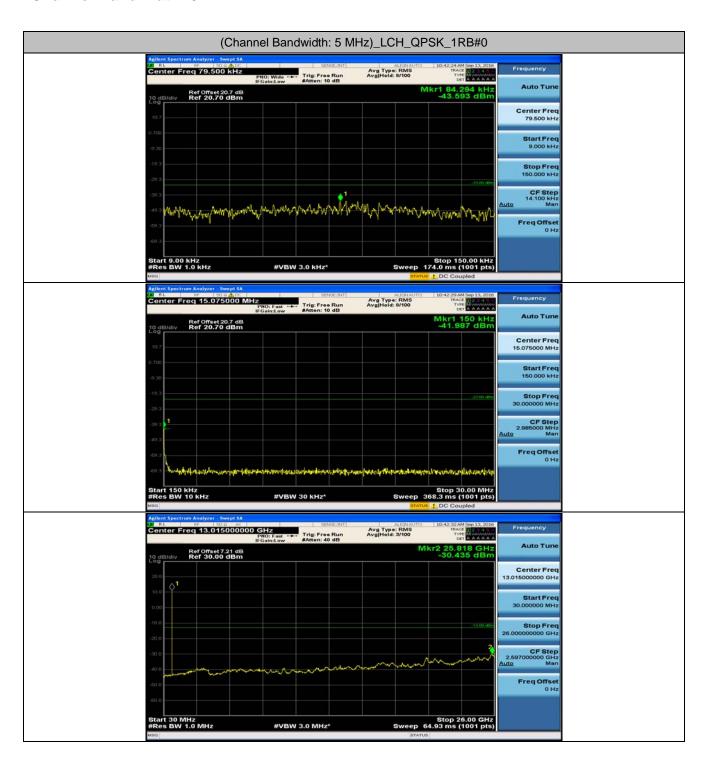




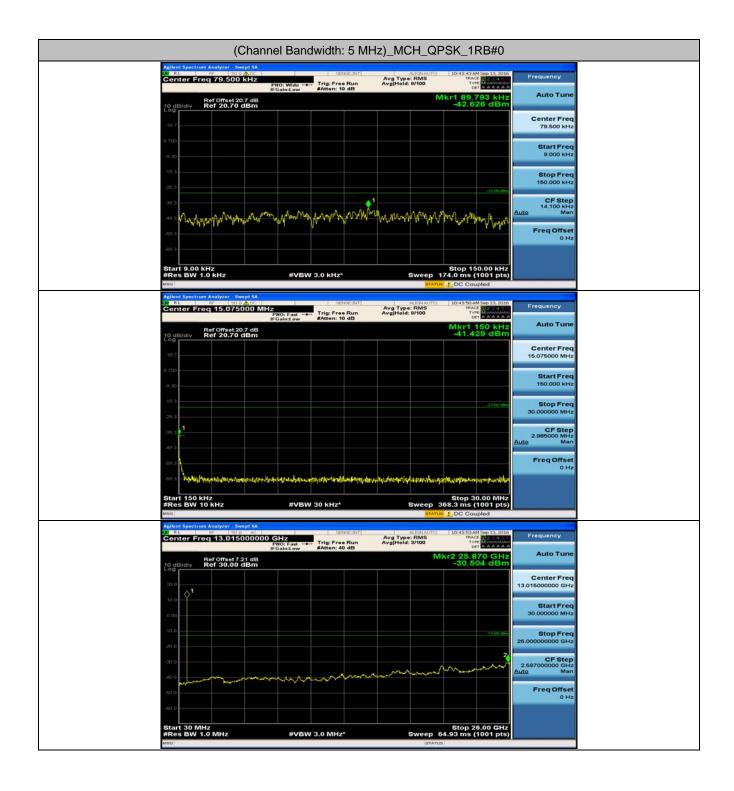


Appendix E: Conducted Spurious Emission

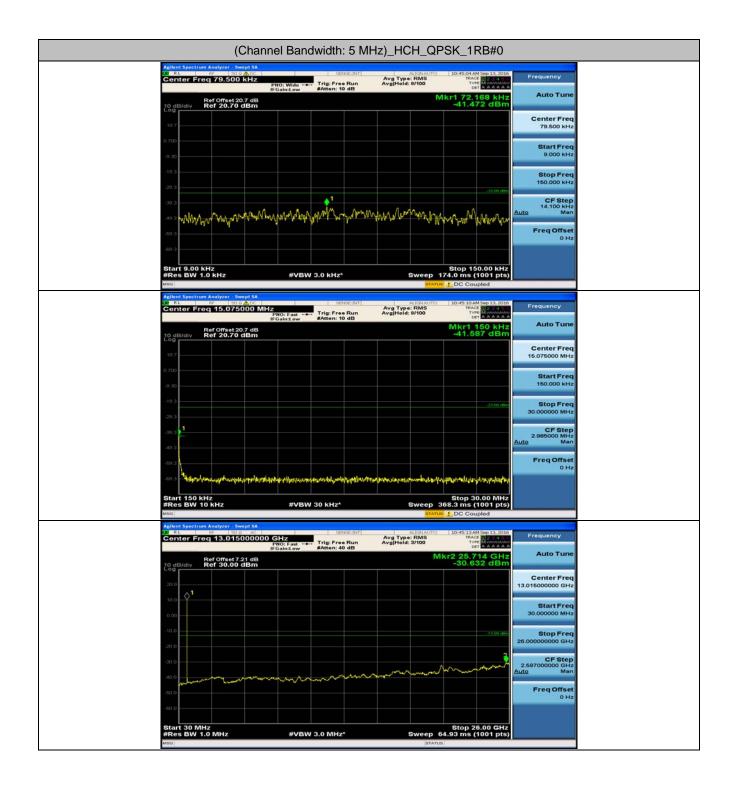
Test Graphs



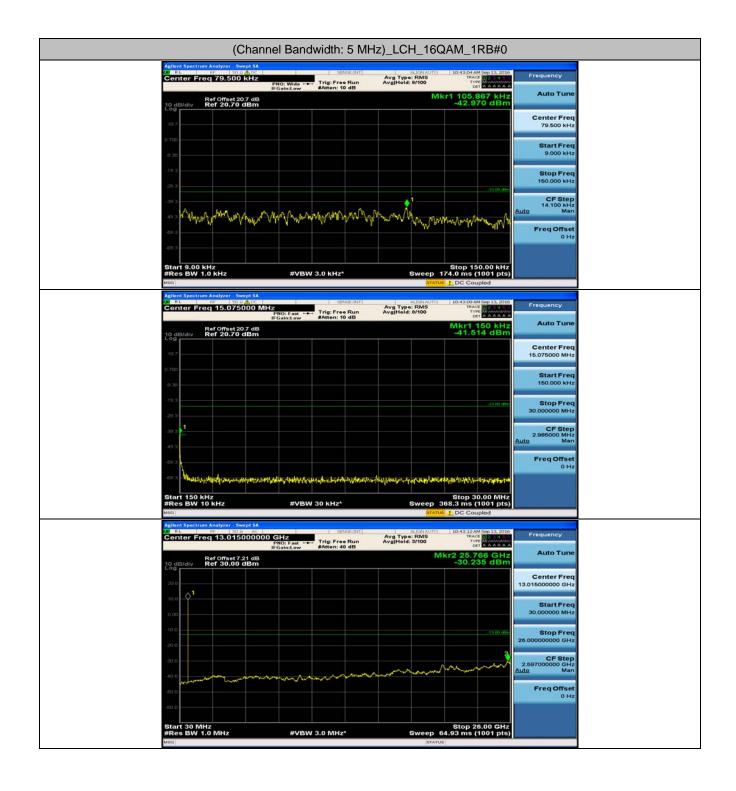




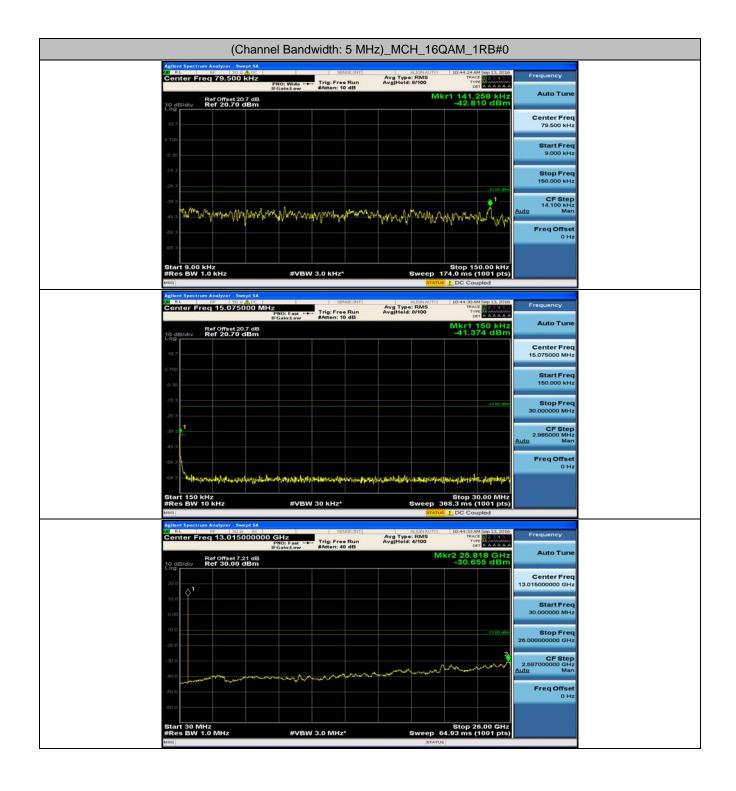




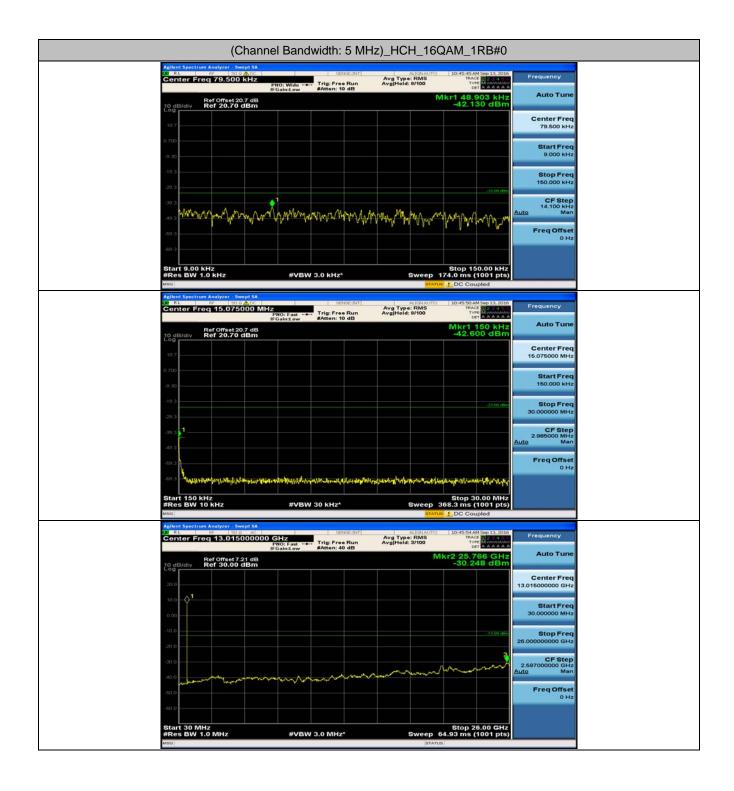




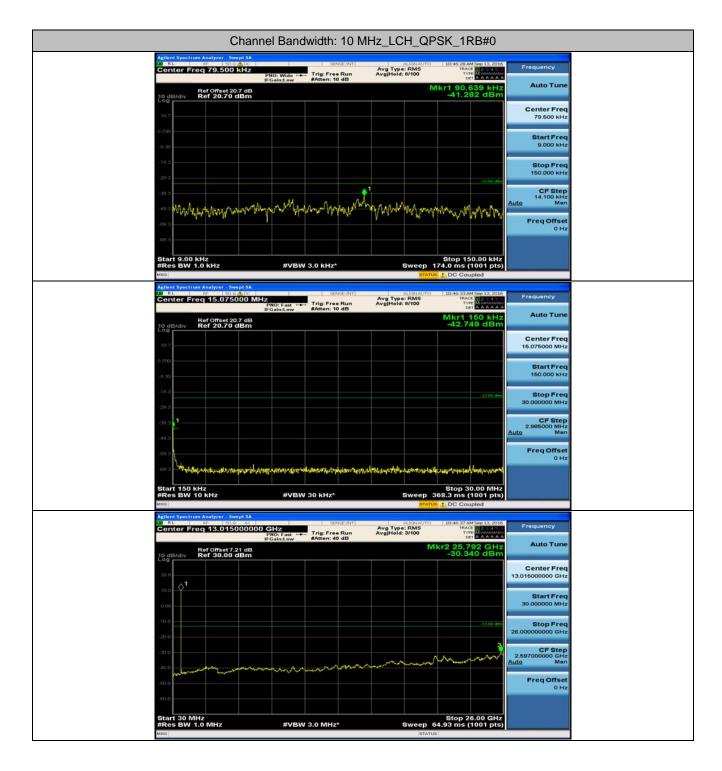




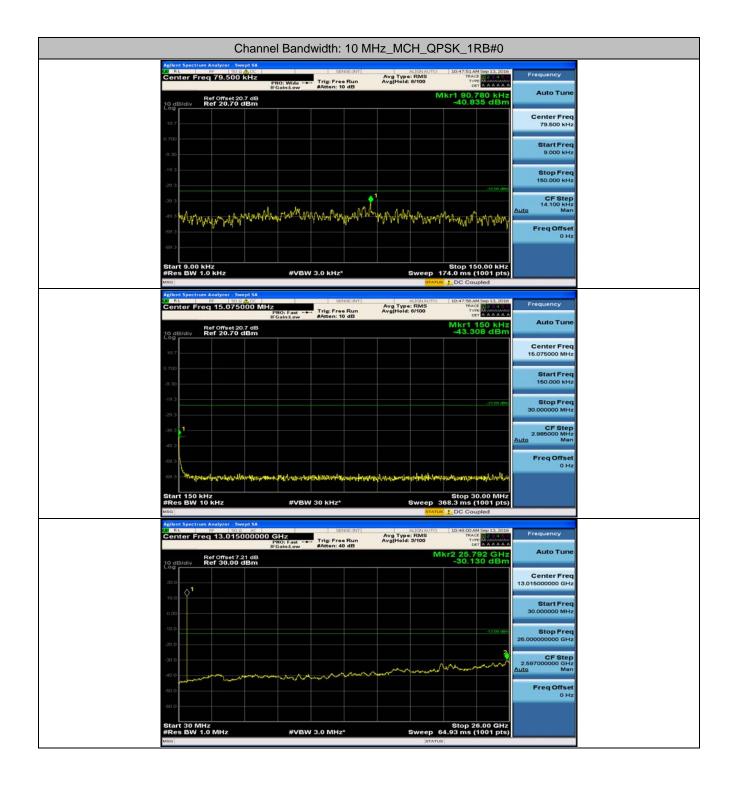




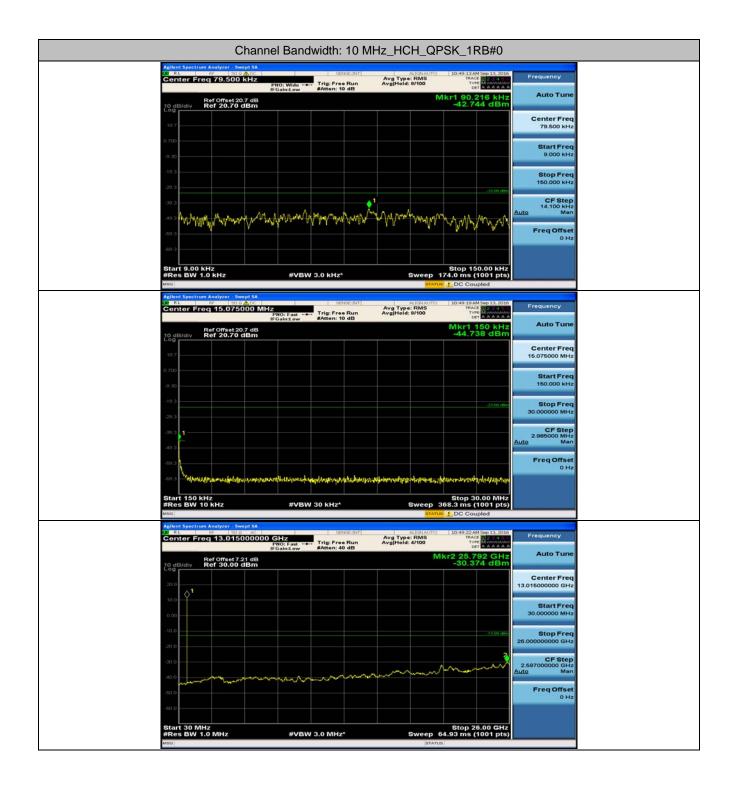




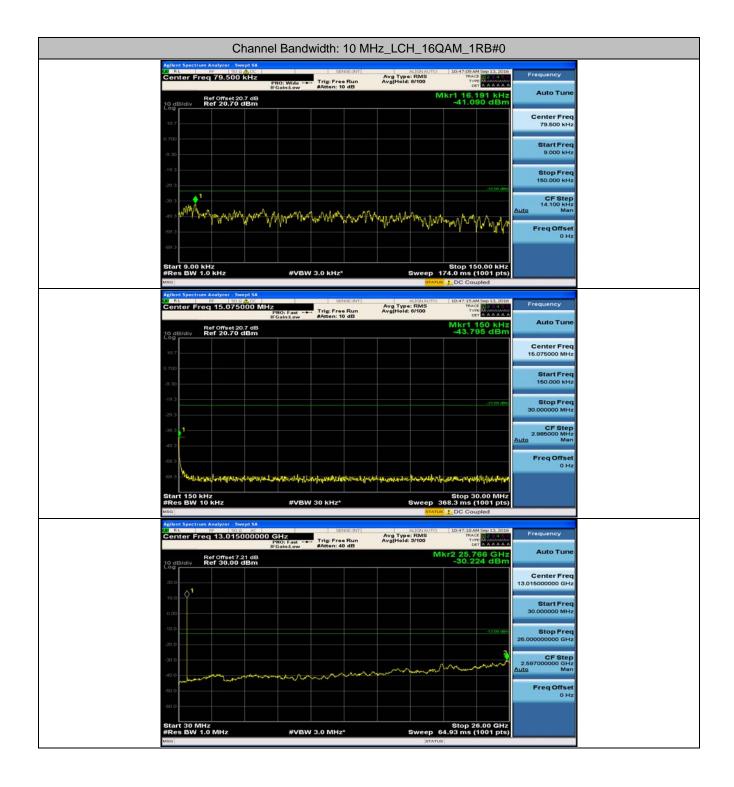




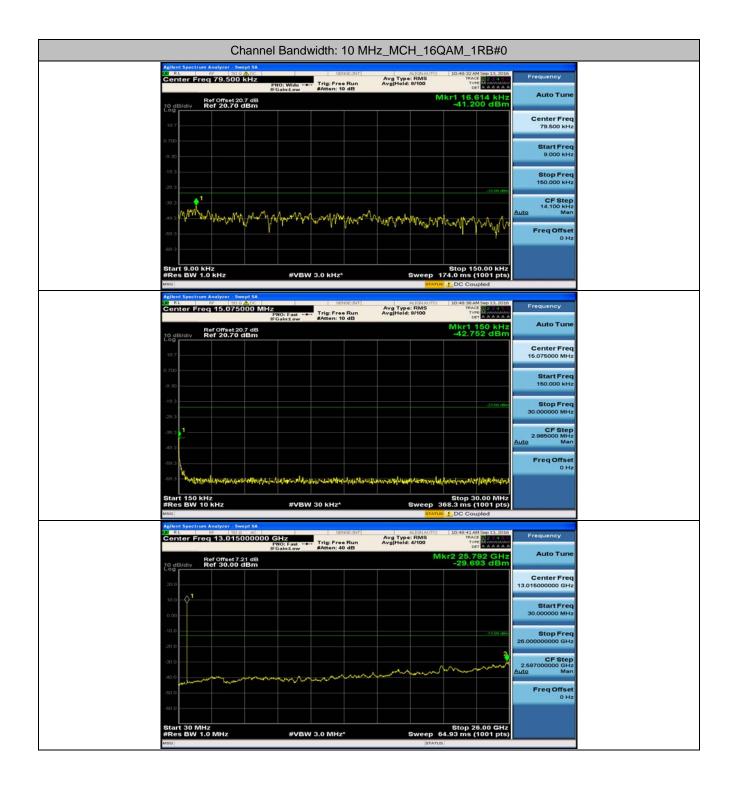




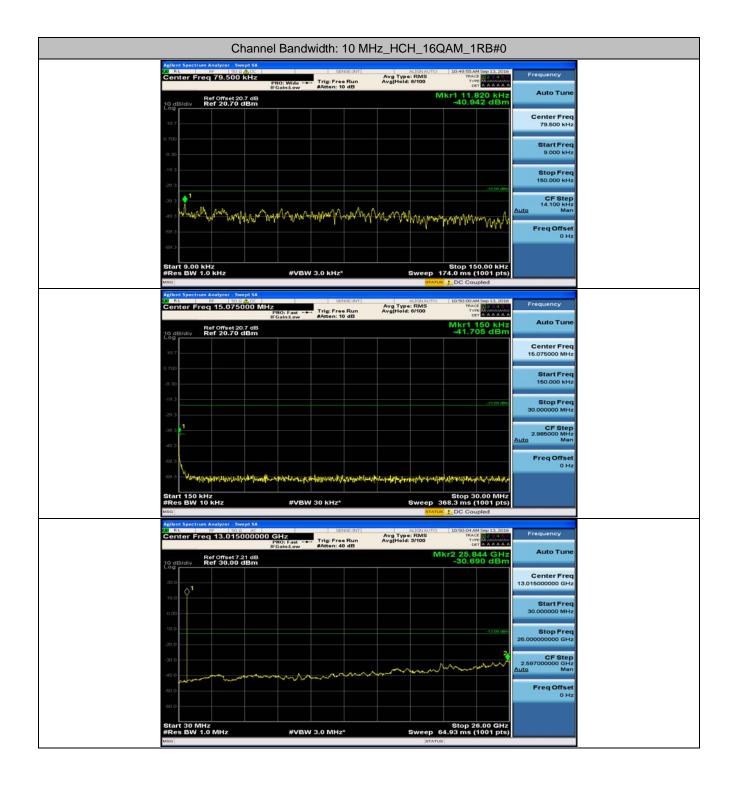














Frequency Stability

Test Result

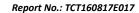
| Bandwidth (MHz) : | | 10MHz | | RB #: | Full |
|-------------------|----------------|-----------------|------------|---------------|--------|
| Limit (ppm) : | | 2.5ppm | | Channel: | МСН |
| | | Modu | Modulation | | |
| Temperature (°C) | Voltage (V) | QPSK 16Q | | 16QAM Result | Result |
| (=) | | Deviation (ppm) | Dev | viation (ppm) | |
| 50 | 3.7 | +0.033 | | +0.036 | |
| 40 | 3.7 | +0.031 | | +0.032 | |
| 30 | 3.7 | -0.022 | | -0.026 | |
| 20 | 3.7 | +0.016 | | +0.019 | |
| 10 | 3.7 | -0.017 | -0.023 | | PASS |
| 0 | 3.7 | +0.023 | | +0.027 | |
| -10 | 3.7 | +0.028 | | +0.031 | |
| -20 | 3.7 | -0.034 | | -0.033 | |
| -30 | 3.7 | +0.037 | | +0.037 | |
| 20 | 4.2 | -0.021 | | -0.024 | PASS |
| 20 | 3.5 | +0.024 | | +0.028 | PASS |



Field Strength of Spurious Radiation Measurement

Test Result

| Modulation: QPSK Temperature: 23°24°C RB #: 1 Relative Humidity: 46°48% Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line. Frequency (MHz) Spurious Emission Limit (dBm) Result 1413.0 Vertical -53.66 -13.00 PASS 1413.0 Horizontal -54.06 -13.00 PASS 1413.0 Horizontal -58.38 -13.00 PASS 1413.0 Horizontal -58.38 -13.00 Middle 2119.5 H -58.38 -13.00 Middle Bandwidth: 5M Test channel: Middle Spurious emissions within 30-1000MHz were found more than 20dB below limit line. Frequency (MHz) Application Level (dBm) Limit (dBm) PASS Bandwidth: |
|---|
|---|





| Bandwidth: | 5M | | Test channel: | Lowest | |
|---|--|---|---------------------------------------|------------------------------|--|
| Modulation: | 16QAM | | Temperature : | 23~24°C | |
| RB #: | 1 | | Relative Humidity: | 46~48% | |
| Note: | Spurious emissions line. | within 30-1000MHz | were found more tha | an 20dB below limit | |
| Fraguency (MHz) | Spurious Emission | | Lineit (dDne) | Decelle | |
| Frequency (MHz) | Polarization | Level (dBm) | Limit (dBm) | Result | |
| 1413.0 | Vertical | -52.66 | | | |
| 2119.5 | V | -56.80 | | | |
| - | V | - | -13.00 | PASS | |
| 1413.0 | Horizontal | -53.05 | -13.00 | PASS | |
| 2119.5 | Н | -57.39 | | | |
| - | Н | - | | 1 | |
| Bandwidth: | 51 | Л | Test channel: | Middle | |
| Modulation: | QP | SK | Temperature : | 23~24°C | |
| RB #: | 1 | | Relative Humidity: | 46~48% | |
| Note: | Spurious emissions line. | within 30-1000MHz | were found more that | nn 20dB below limit | |
| Frequency (MHz) | Spurious | Emission | Limit (dBm) | Result | |
| rrequerity (MHZ) | Polarization | Level (dBm) | Lillill (UBIII) | | |
| 1420.0 | Vertical | -52.85 | | PASS | |
| 2130.0 | V | -57.12 | | | |
| - | V | - | -13.00 | | |
| 1420.0 | Horizontal | -53.61 | -13.00 | | |
| 2130.0 | Н | -57.90 | | | |
| - | Н | - | | | |
| Bandwidth: | 51 | Л | Test channel: | Highest | |
| Modulation: | QP | SK | Temperature : | 23~24°C | |
| RB #: | 1 | | | | |
| no n. | _ | | Relative Humidity: | 46~48% | |
| Note: | | | were found more that | | |
| Note: | Spurious emissions | within 30-1000MHz | were found more that | an 20dB below limit | |
| | Spurious emissions line. | within 30-1000MHz | · · · · · · · · · · · · · · · · · · · | | |
| Note: | Spurious emissions line. | within 30-1000MHz Emission | were found more that | an 20dB below limit | |
| Note: Frequency (MHz) | Spurious emissions line. Spurious Polarization | within 30-1000MHz Emission Level (dBm) | were found more that | an 20dB below limit | |
| Note: Frequency (MHz) 1427.0 | Spurious emissions line. Spurious Polarization Vertical | within 30-1000MHz Emission Level (dBm) -52.15 | were found more that | n 20dB below limit Result | |
| Note: Frequency (MHz) 1427.0 | Spurious emissions line. Spurious Polarization Vertical V | within 30-1000MHz Emission Level (dBm) -52.15 | were found more that | an 20dB below limit | |
| Note: Frequency (MHz) 1427.0 2140.5 - | Spurious emissions line. Spurious Polarization Vertical V | Emission Level (dBm) -52.15 -57.28 | were found more that | n 20dB below limit Result | |

Note: All bandwidth and modulation are tested, only the worst result is reported.