

Appendix H: Test Data for E-UTRA Band 17

Product Name: 4G Router/4G LTE/Wireless Router

Trade Mark: TODAAIR

Test Model: TD954G2

Environmental Conditions

| | |
|--------------------|------------|
| Temperature: | 23.1° C |
| Relative Humidity: | 53.6% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | DIAMOND.LU |
| Supervised by: | LI HUAN |

H.1 Conducted Output Power

| Conducted Output Power Test Result (Channel Bandwidth: 5 MHz) | | | | | | |
|---|---------|------------------|--------|---------------------|-------|---------|
| Modulation | Channel | RB Configuration | | Average Power [dBm] | | Verdict |
| | | Size | Offset | QPSK | 16QAM | |
| QPSK / 16QAM | LCH | 1 | 0 | 23.92 | 23.05 | PASS |
| | | 1 | 12 | 18.91 | 18.12 | PASS |
| | | 1 | 24 | 19.19 | 18.36 | PASS |
| | | 12 | 0 | 17.46 | 16.45 | PASS |
| | | 12 | 6 | 17.56 | 16.59 | PASS |
| | | 12 | 13 | 17.84 | 16.83 | PASS |
| | | 25 | 0 | 17.65 | 16.69 | PASS |
| | MCH | 1 | 0 | 18.85 | 18.14 | PASS |
| | | 1 | 12 | 19.93 | 19.01 | PASS |
| | | 1 | 24 | 20.14 | 19.15 | PASS |
| | | 12 | 0 | 18.23 | 17.28 | PASS |
| | | 12 | 6 | 18.63 | 17.64 | PASS |
| | | 12 | 13 | 19.10 | 18.04 | PASS |
| | | 25 | 0 | 18.76 | 17.64 | PASS |
| | HCH | 1 | 0 | 19.96 | 18.92 | PASS |
| | | 1 | 12 | 20.55 | 19.55 | PASS |
| | | 1 | 24 | 19.58 | 19.05 | PASS |
| | | 12 | 0 | 18.90 | 17.85 | PASS |
| | | 12 | 6 | 19.17 | 18.21 | PASS |
| | | 12 | 13 | 18.74 | 17.81 | PASS |

| | | | | | | |
|--|--|----|---|-------|-------|------|
| | | 25 | 0 | 18.86 | 17.81 | PASS |
|--|--|----|---|-------|-------|------|

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)

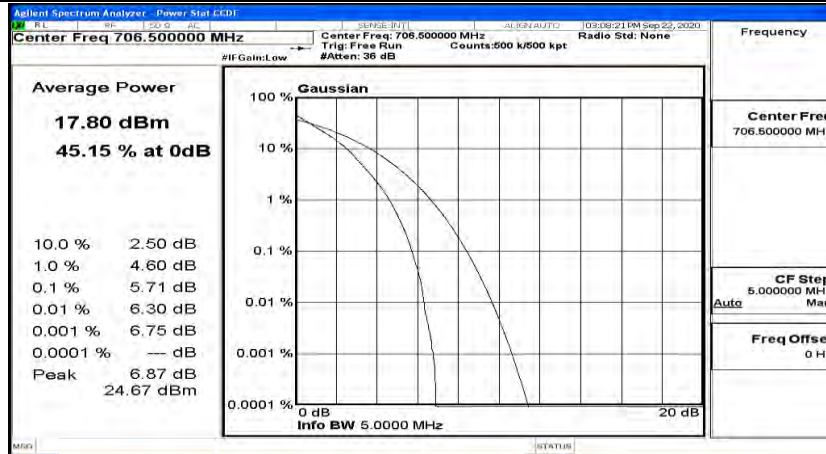
| Modulation | Channel | RB Configuration | | Average Power [dBm] | | Verdict |
|-----------------|---------|------------------|--------|---------------------|-------|---------|
| | | Size | Offset | QPSK | 16QAM | |
| QPSK / 16QAM | LCH | 1 | 0 | 17.97 | 17.26 | PASS |
| | | 1 | 24 | 19.37 | 18.60 | PASS |
| | | 1 | 49 | 20.26 | 19.31 | PASS |
| | | 25 | 0 | 17.92 | 16.89 | PASS |
| | | 25 | 12 | 18.39 | 17.36 | PASS |
| | | 25 | 25 | 19.38 | 18.25 | PASS |
| | | 50 | 0 | 18.73 | 17.74 | PASS |
| | MCH | 1 | 0 | 18.22 | 17.67 | PASS |
| | | 1 | 24 | 19.75 | 18.95 | PASS |
| | | 1 | 49 | 20.06 | 19.36 | PASS |
| | | 25 | 0 | 18.07 | 17.14 | PASS |
| | | 25 | 12 | 18.70 | 17.64 | PASS |
| | | 25 | 25 | 19.49 | 18.35 | PASS |
| | | 50 | 0 | 18.93 | 17.93 | PASS |
| | HCH | 1 | 0 | 18.52 | 17.83 | PASS |
| | | 1 | 24 | 20.05 | 19.08 | PASS |
| | | 1 | 49 | 19.71 | 19.18 | PASS |
| | | 25 | 0 | 18.24 | 17.24 | PASS |
| | | 25 | 12 | 18.90 | 17.84 | PASS |
| | | 25 | 25 | 19.24 | 18.11 | PASS |
| | | 50 | 0 | 18.90 | 17.85 | PASS |

H.2 Peak-to-Average Ratio

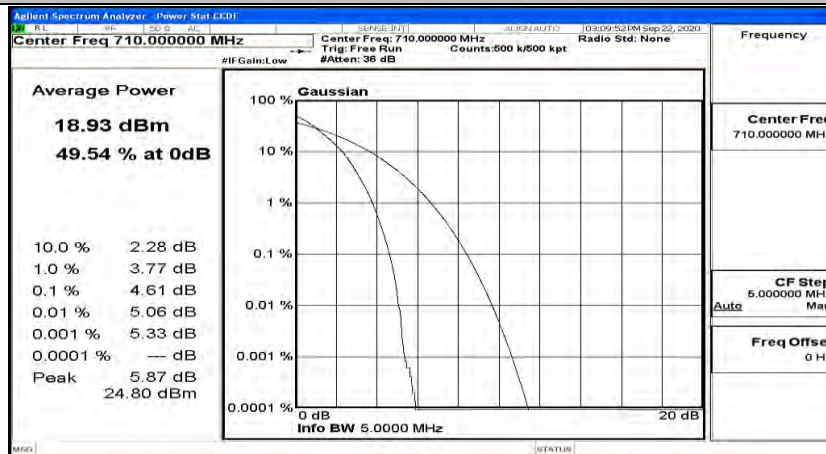
| Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz) | | | | |
|--|---------|-------------------------------|---------------|---------|
| Modulation | Channel | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| QPSK | LCH | 5.71 | <13 | PASS |
| | MCH | 4.61 | <13 | PASS |
| | HCH | 4.47 | <13 | PASS |
| 16QAM | LCH | 6.64 | <13 | PASS |
| | MCH | 5.36 | <13 | PASS |
| | HCH | 5.28 | <13 | PASS |

| Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz) | | | | |
|---|---------|-------------------------------|---------------|---------|
| Modulation | Channel | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| QPSK | LCH | 5.18 | <13 | PASS |
| | MCH | 5.11 | <13 | PASS |
| | HCH | 5.02 | <13 | PASS |
| 16QAM | LCH | 5.87 | <13 | PASS |
| | MCH | 5.79 | <13 | PASS |
| | HCH | 5.72 | <13 | PASS |

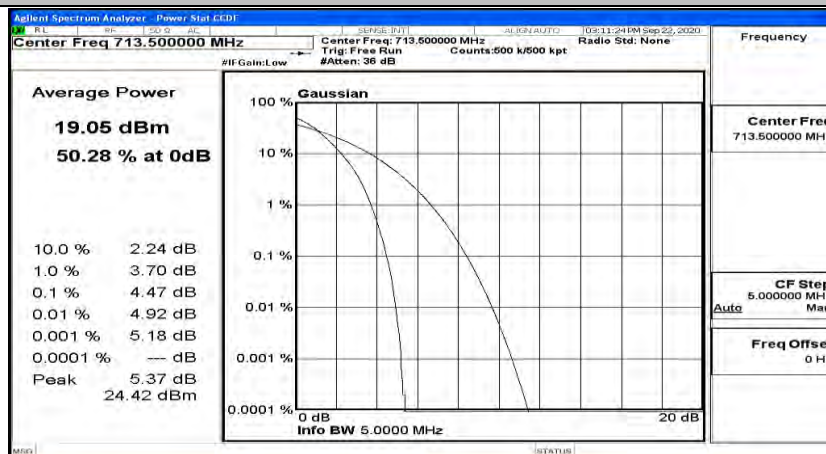
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



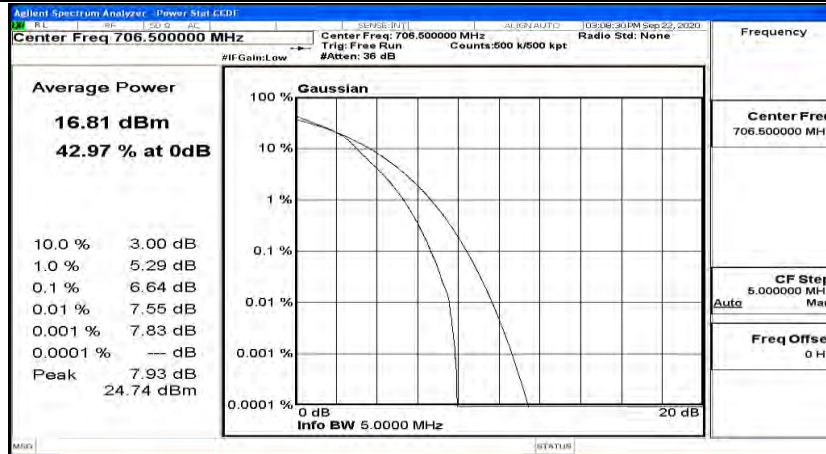
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



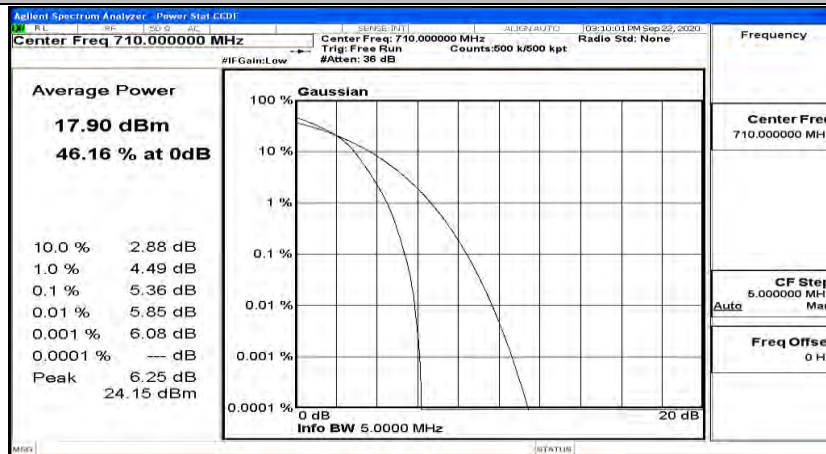
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



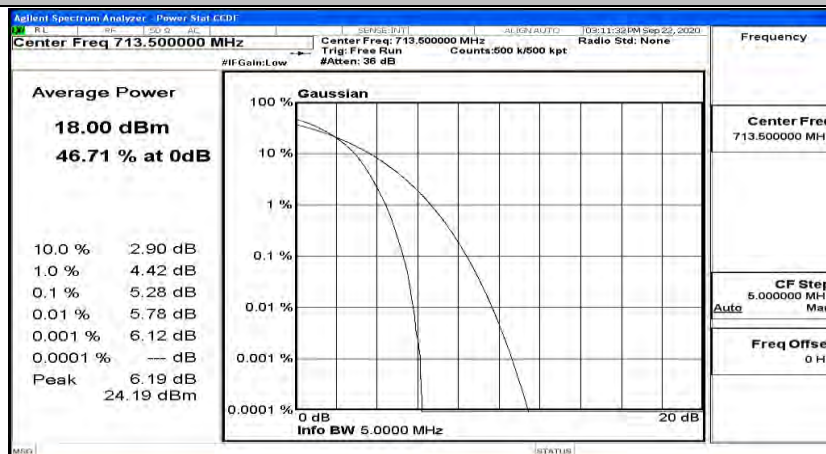
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



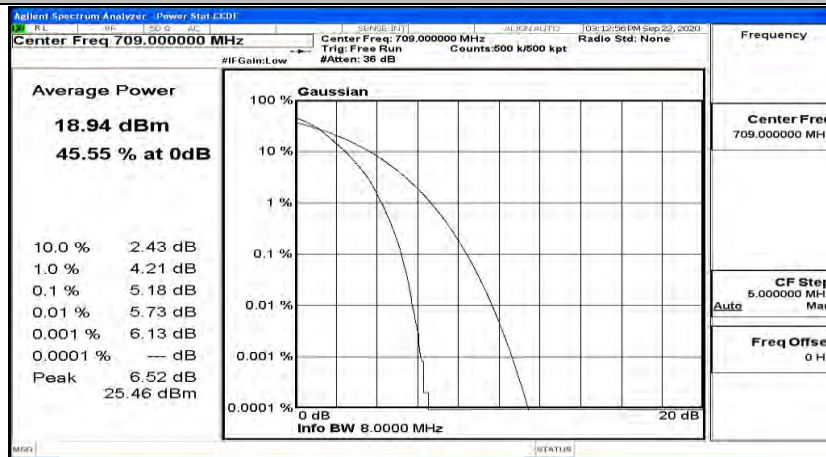
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



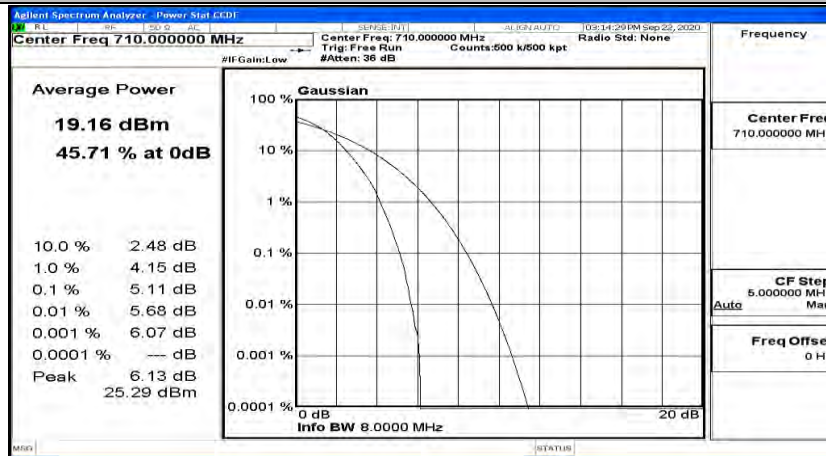
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



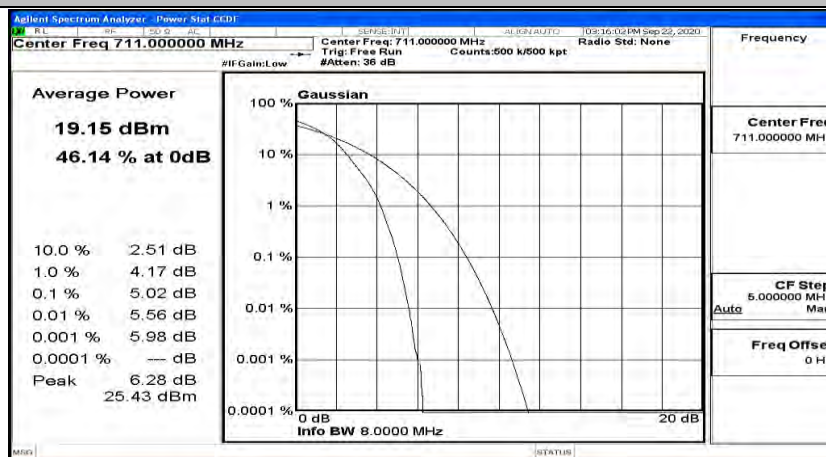
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



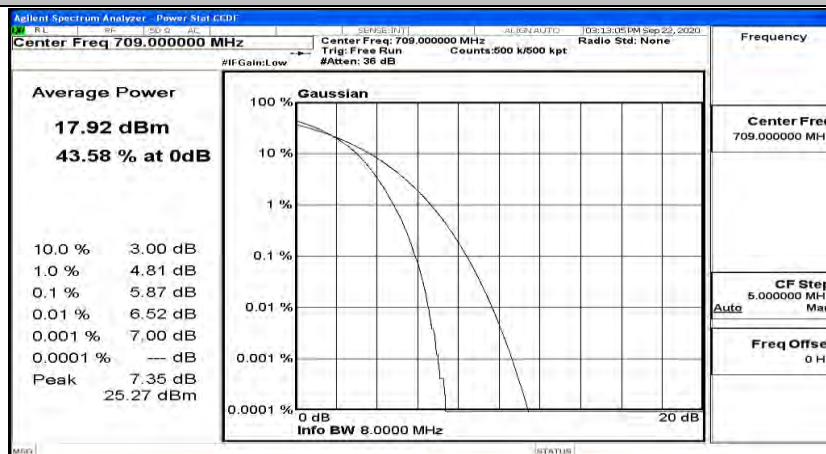
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



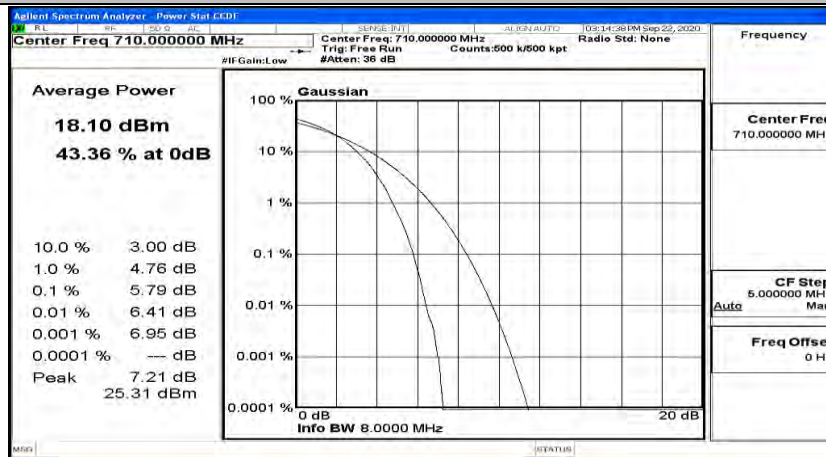
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



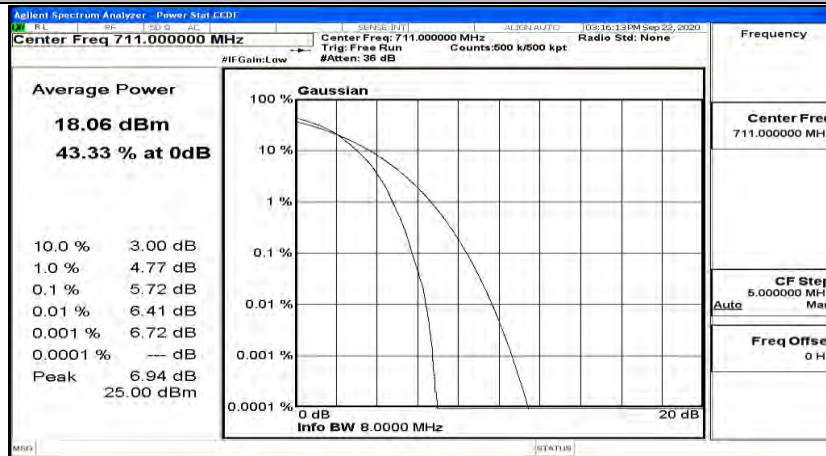
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



H.3 26dB Bandwidth and Occupied Bandwidth

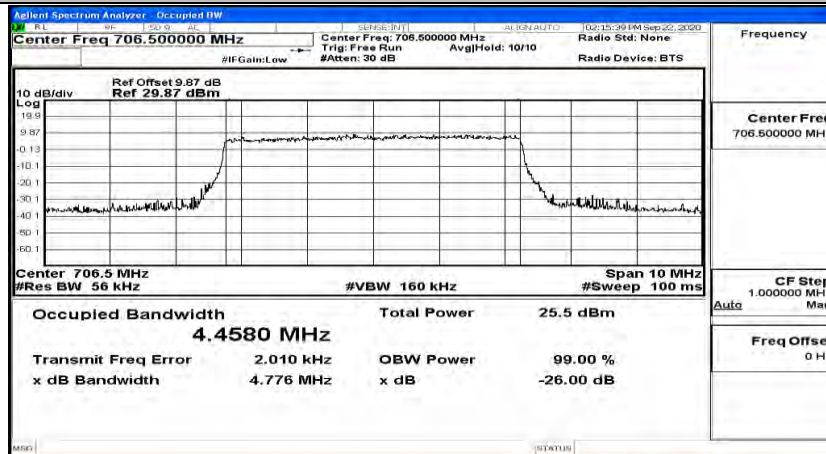
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)

| Modulation | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|------------|---------|--------------------------|----------------------|---------|
| QPSK | LCH | 4.4580 | 4.776 | PASS |
| | MCH | 4.5039 | 5.698 | PASS |
| | HCH | 4.4547 | 4.807 | PASS |
| 16QAM | LCH | 4.4880 | 4.834 | PASS |
| | MCH | 4.4911 | 5.560 | PASS |
| | HCH | 4.4500 | 4.791 | PASS |

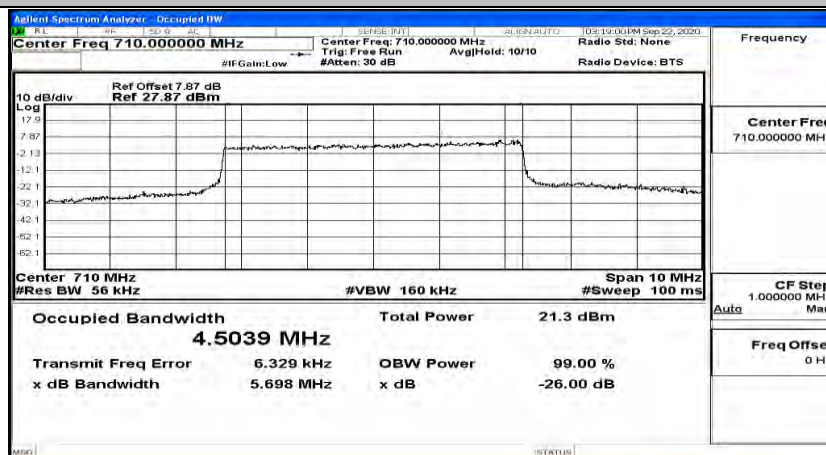
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)

| Modulation | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|------------|---------|--------------------------|----------------------|---------|
| QPSK | LCH | 8.9936 | 10.31 | PASS |
| | MCH | 8.9504 | 9.685 | PASS |
| | HCH | 8.9185 | 9.426 | PASS |
| 16QAM | LCH | 8.9897 | 10.14 | PASS |
| | MCH | 8.9591 | 9.654 | PASS |
| | HCH | 8.9023 | 9.374 | PASS |

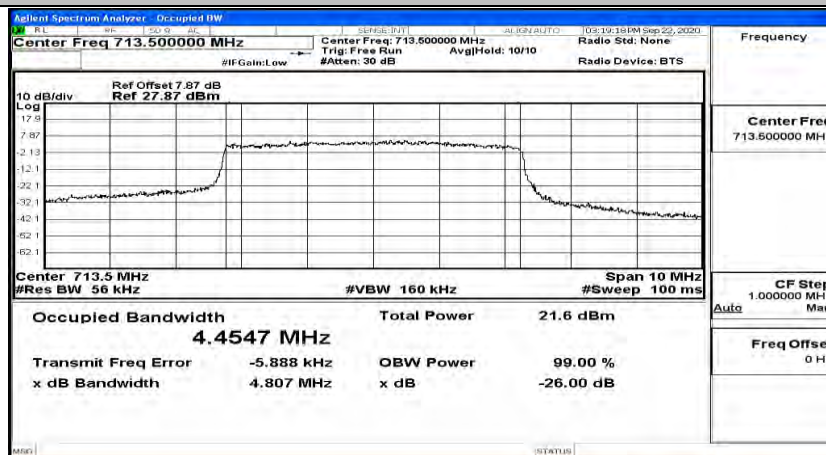
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



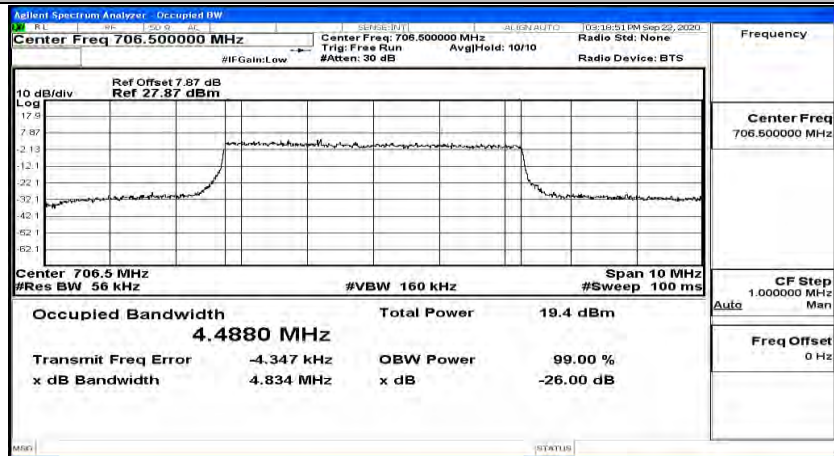
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



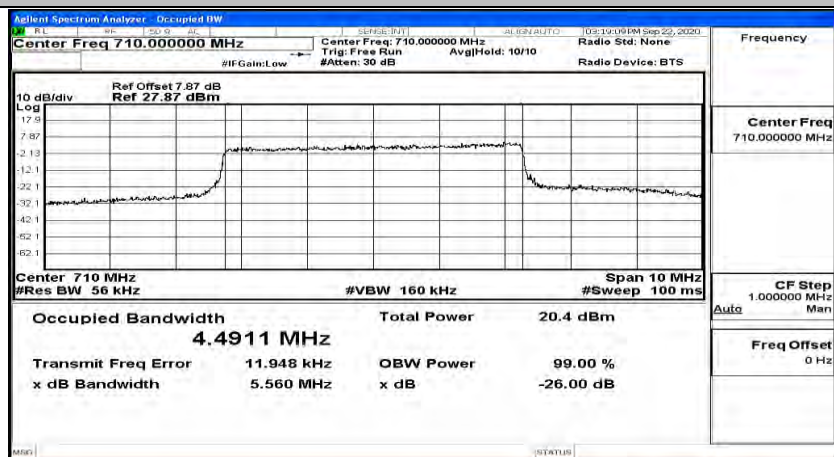
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



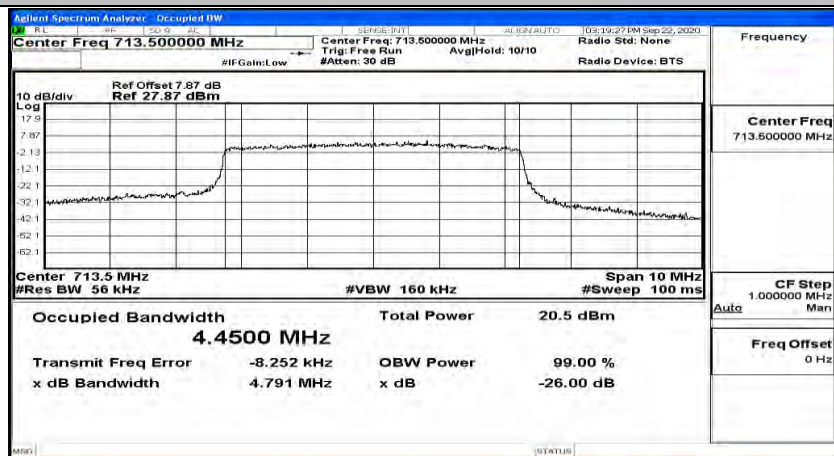
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



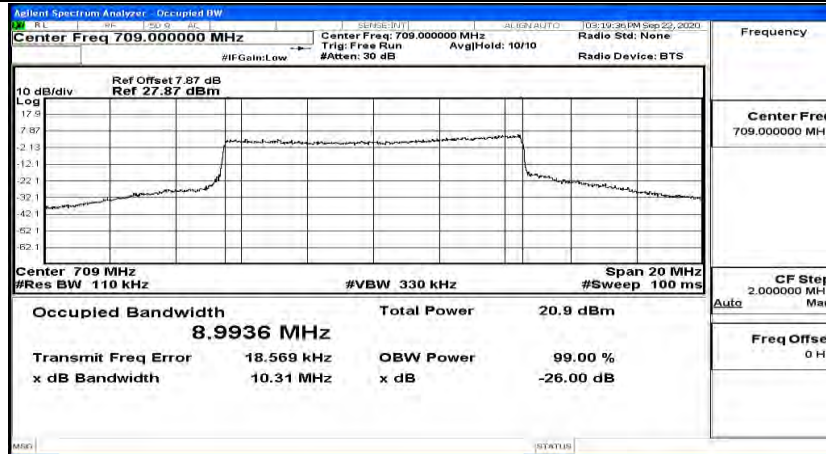
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



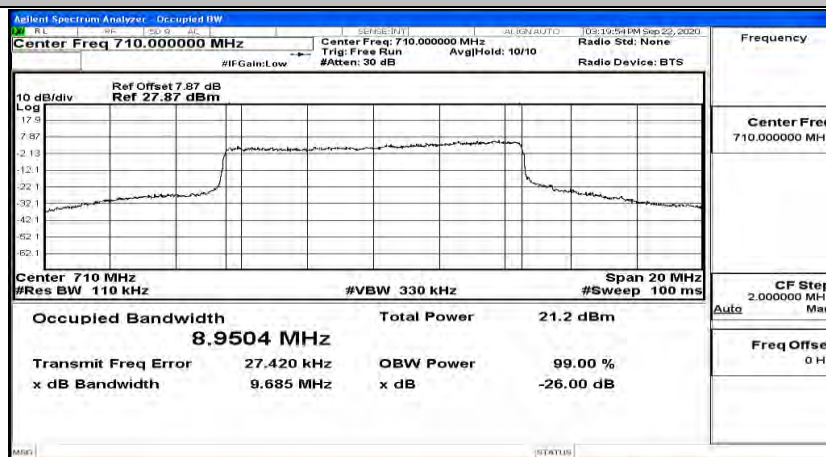
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



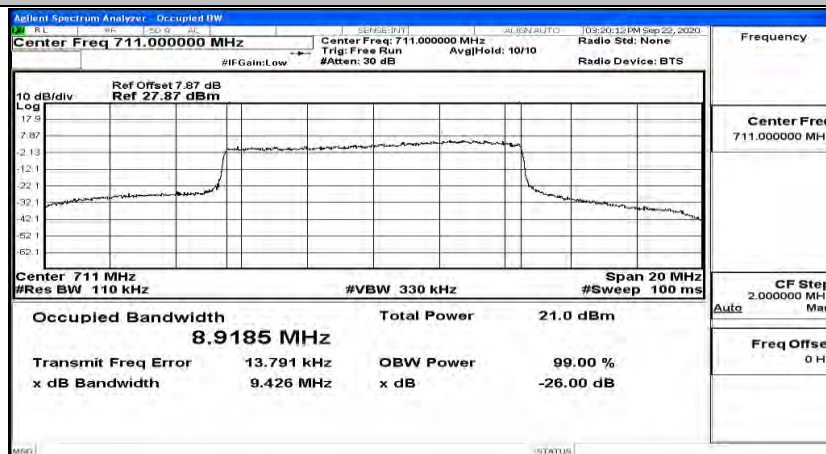
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



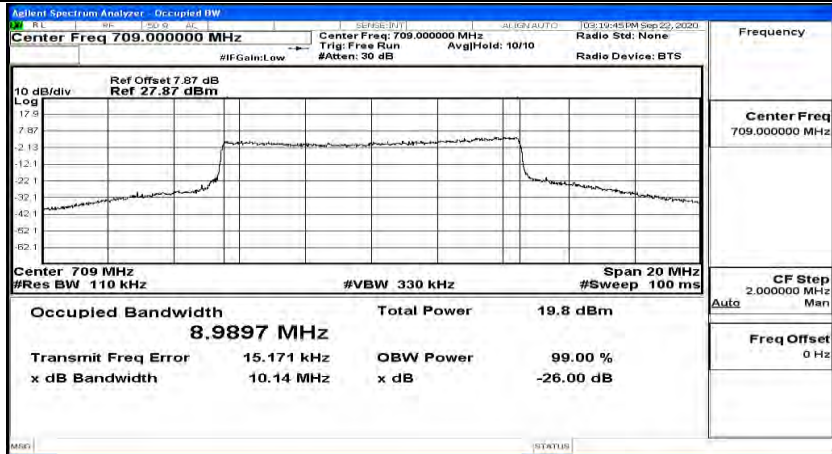
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



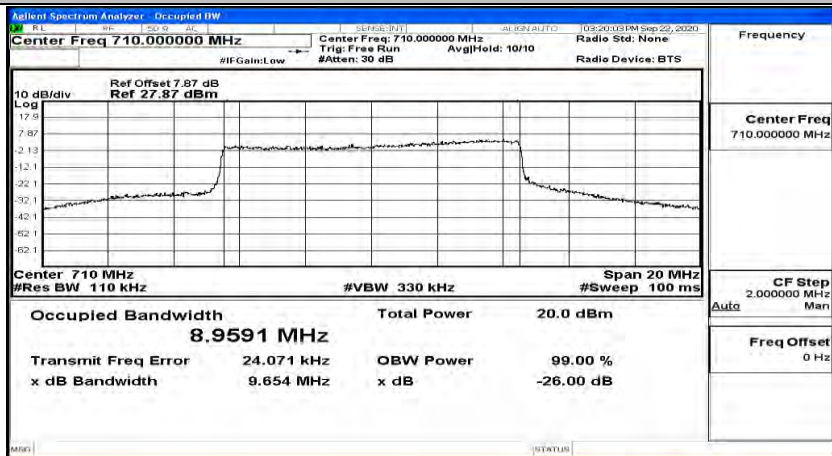
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



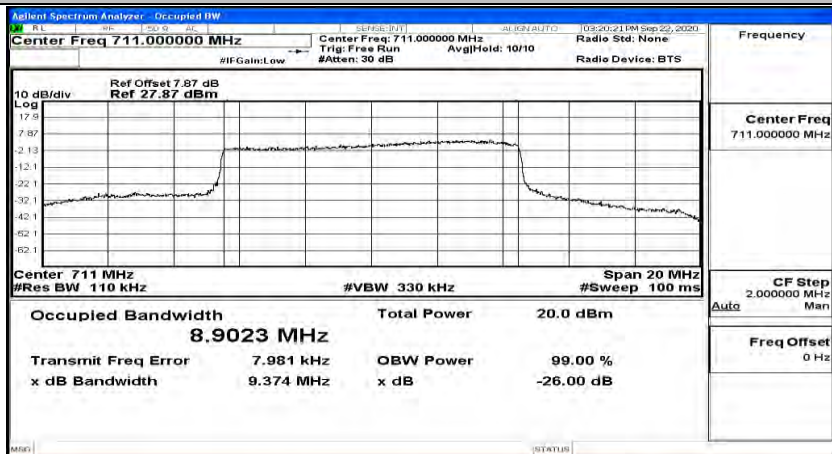
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

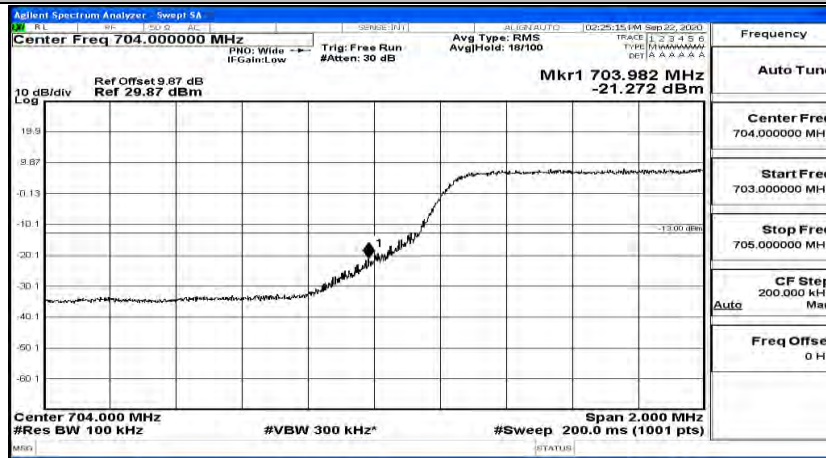


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

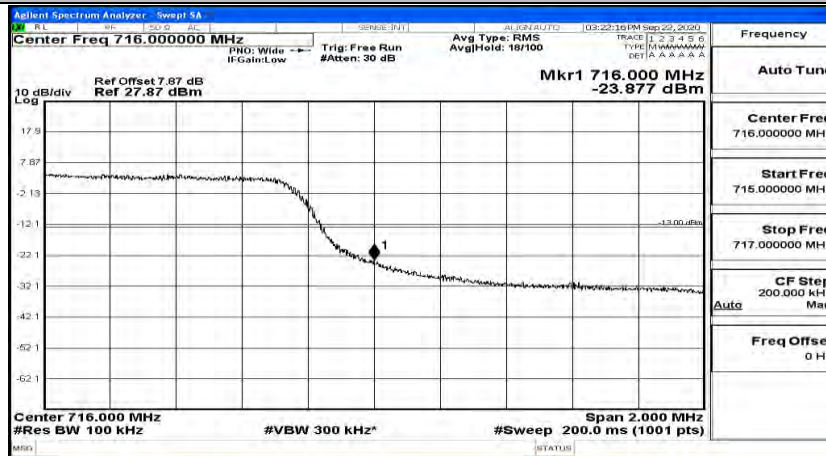


H.4 Band Edge

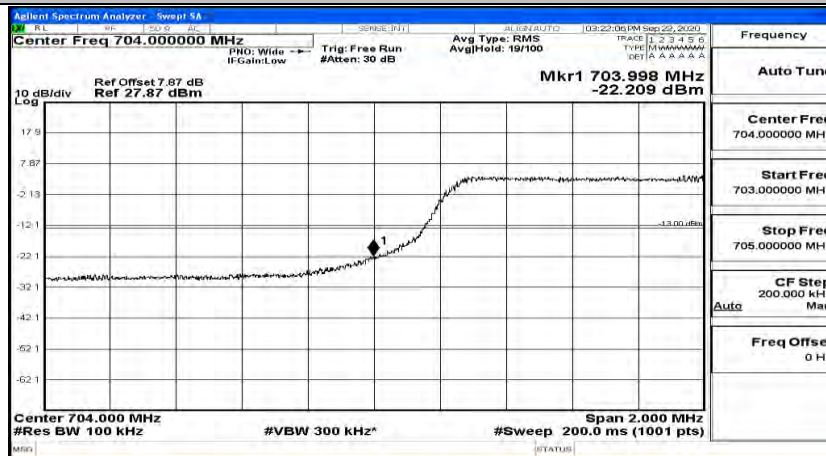
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



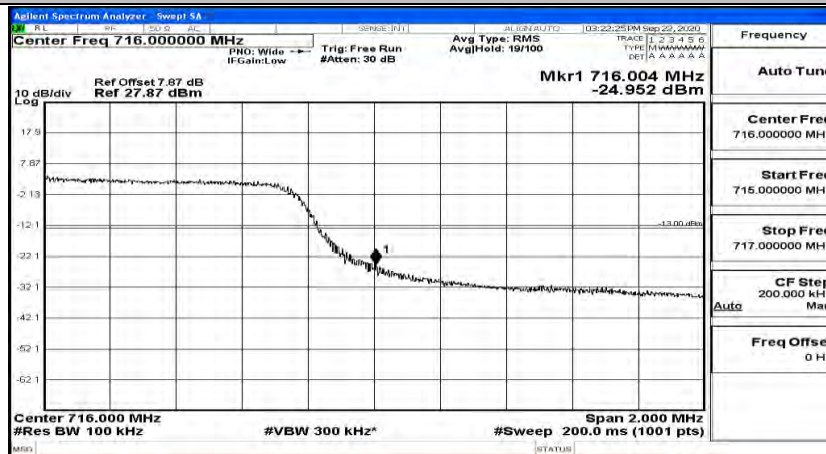
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



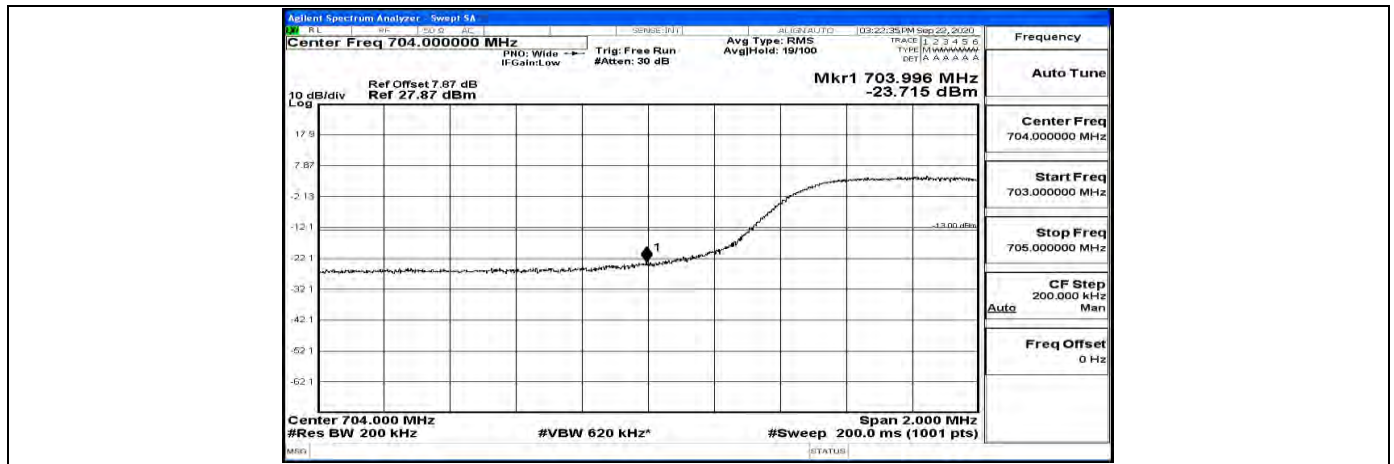
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



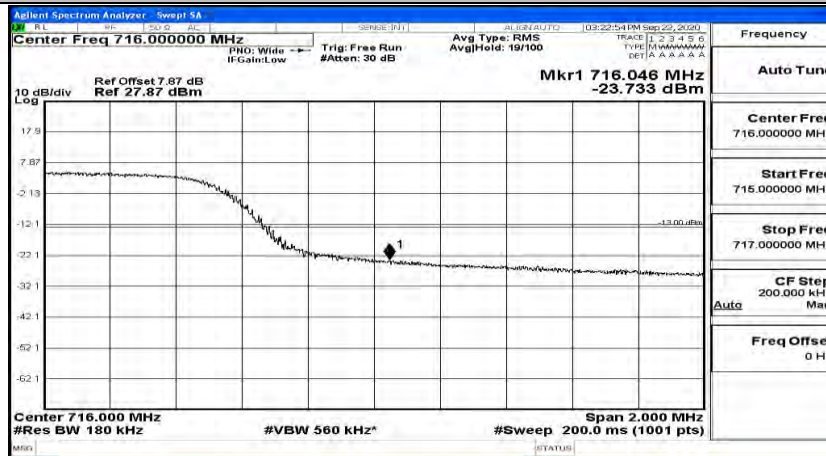
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



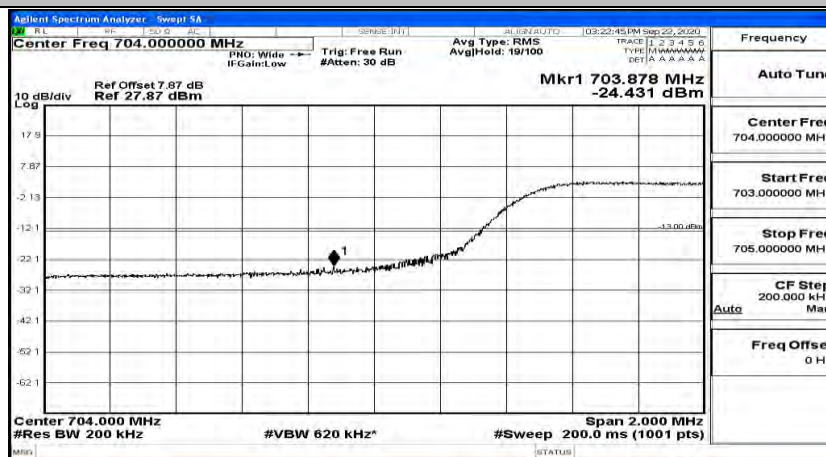
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



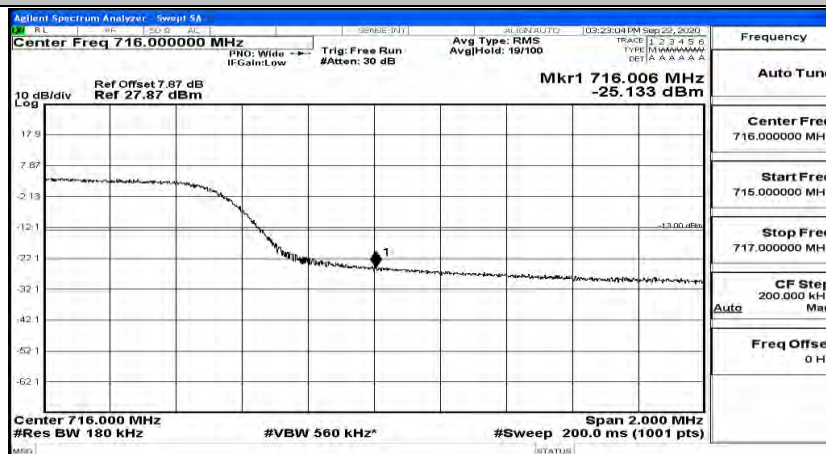
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



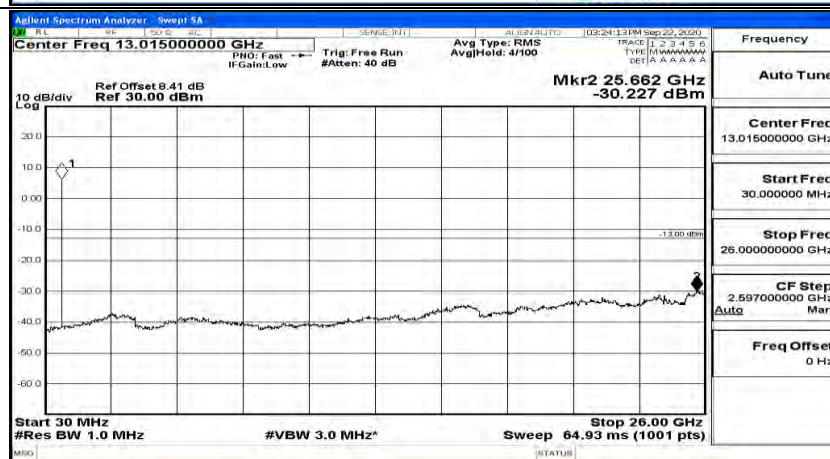
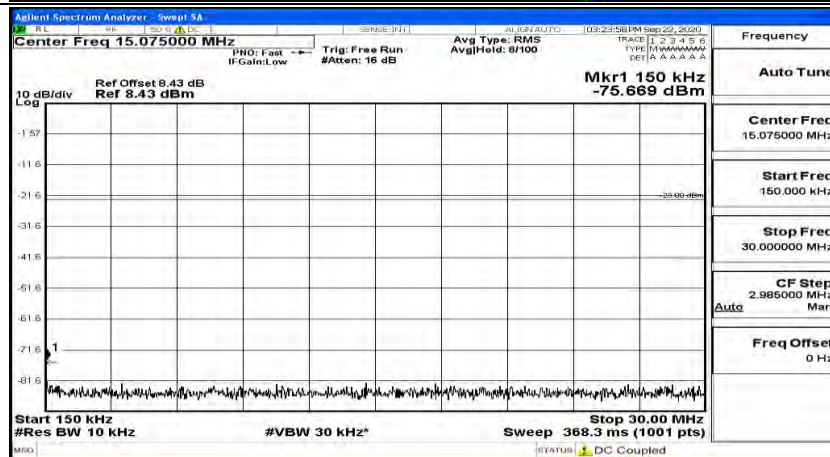
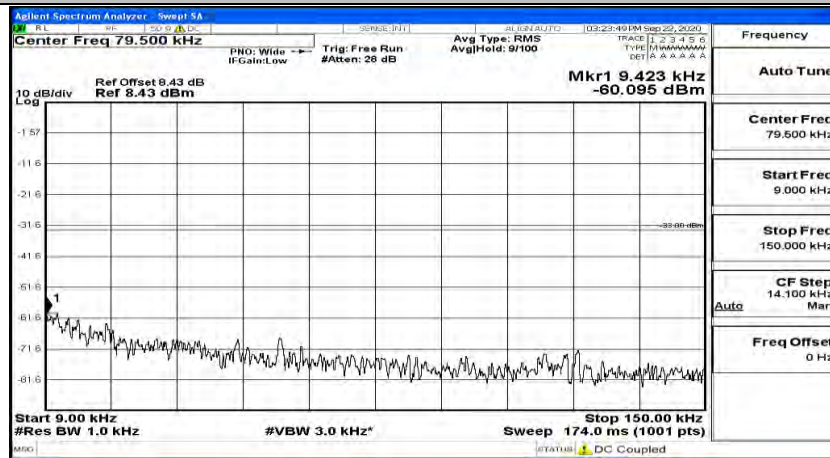
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



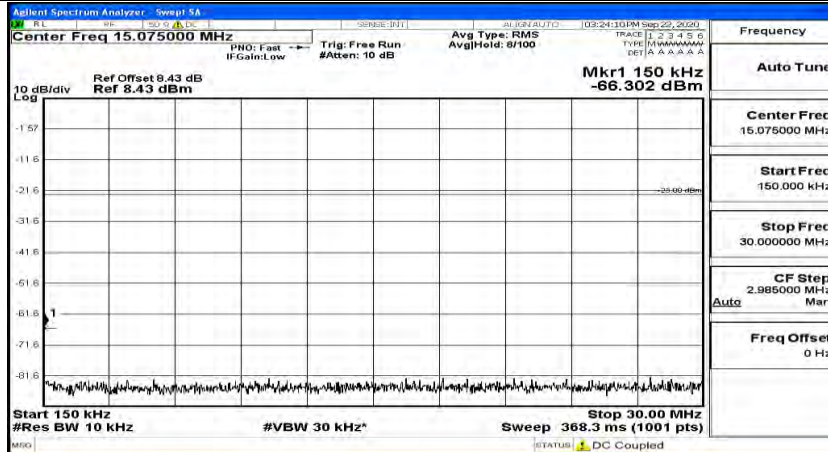
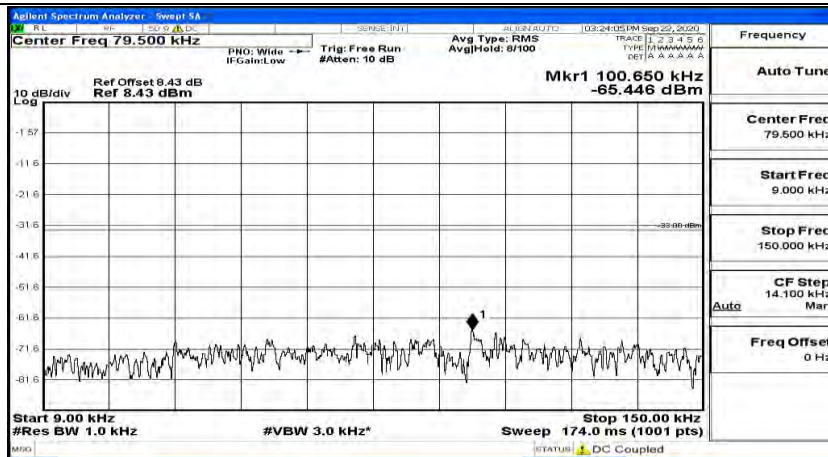
H.5 Conducted Spurious Emission

Channel Bandwidth: 5 MHz

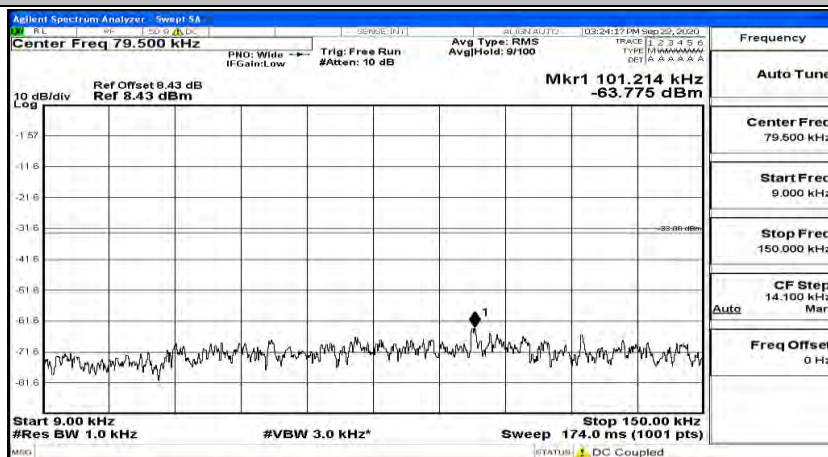
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

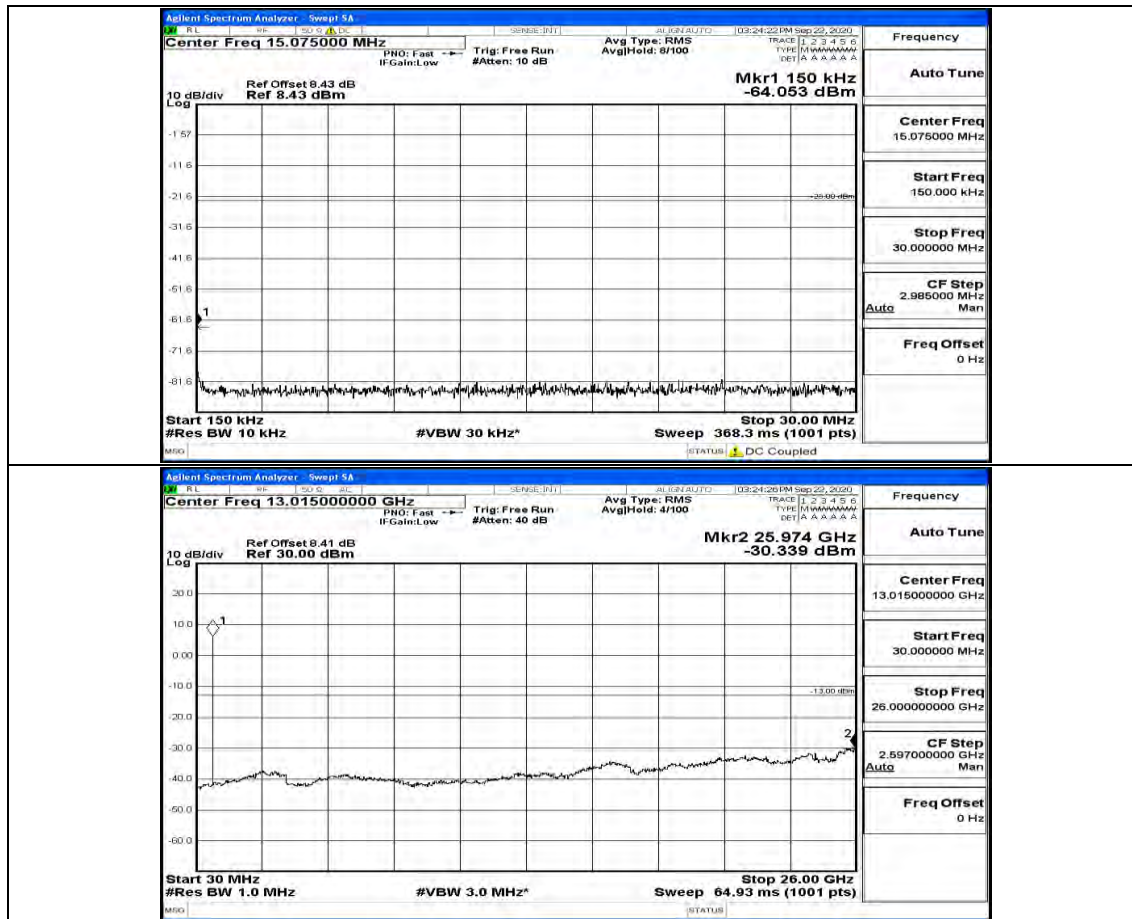


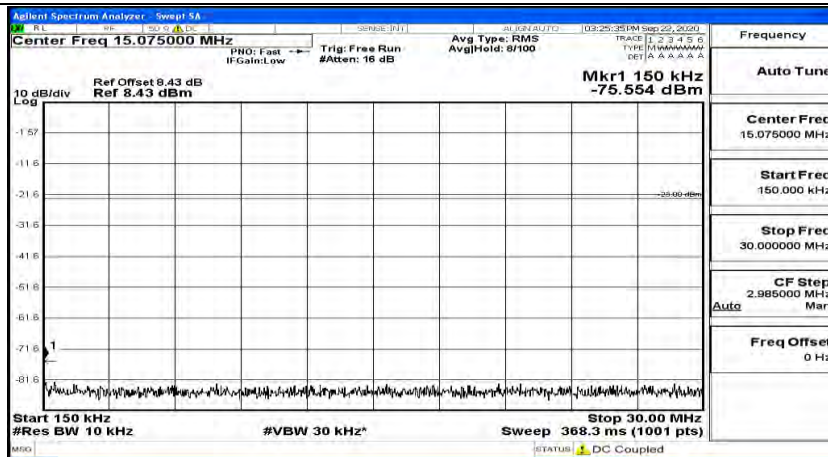
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



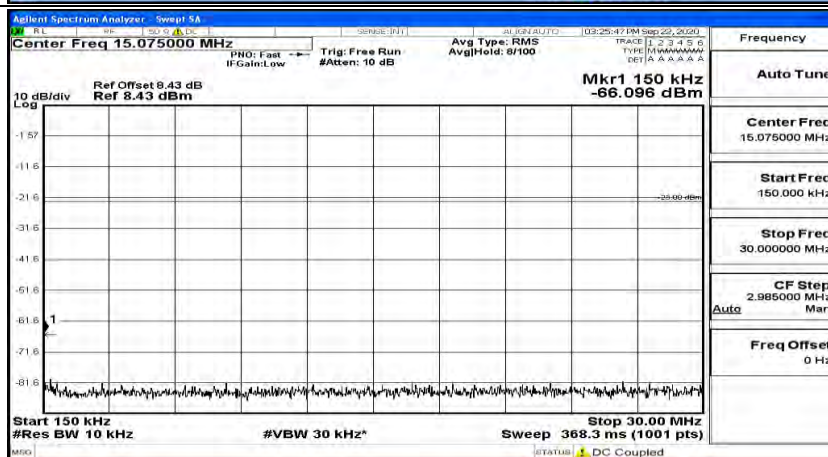
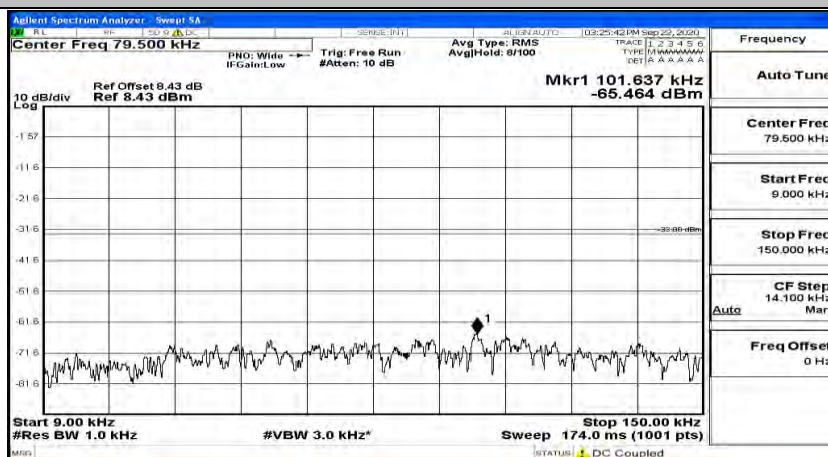
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

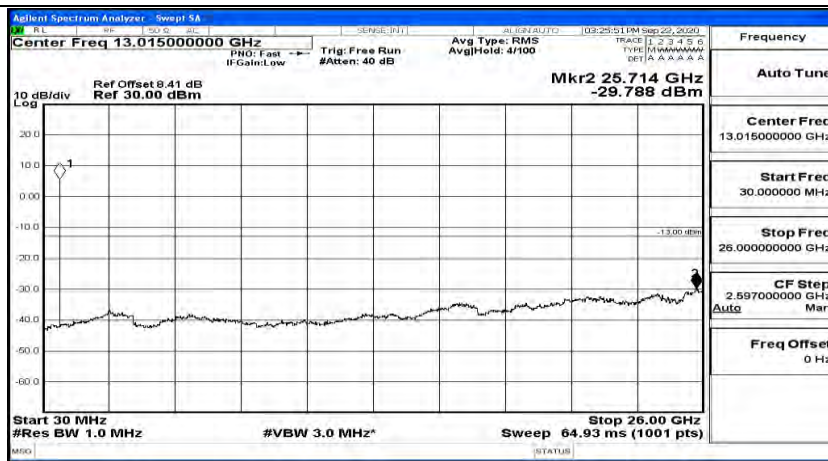




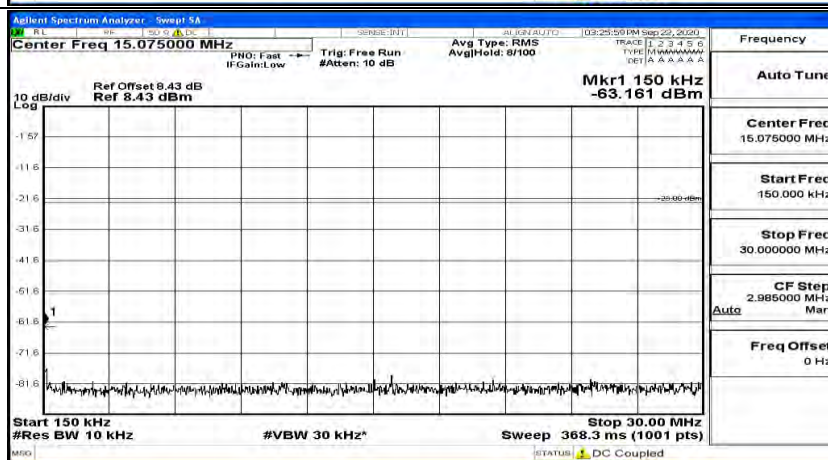
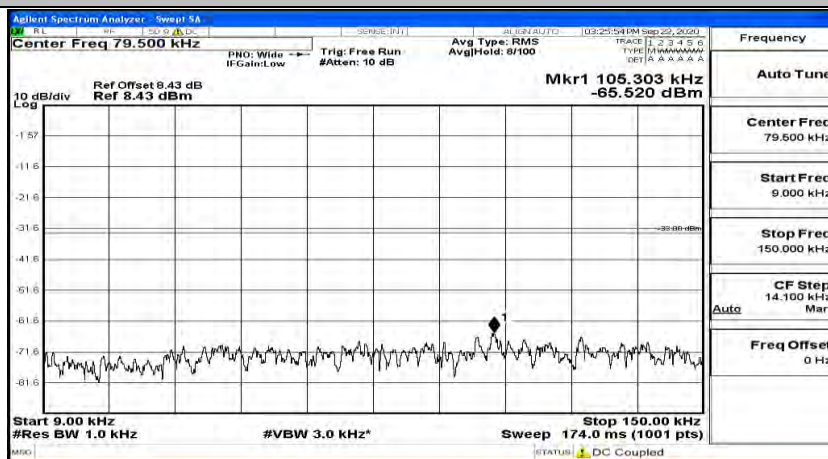


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

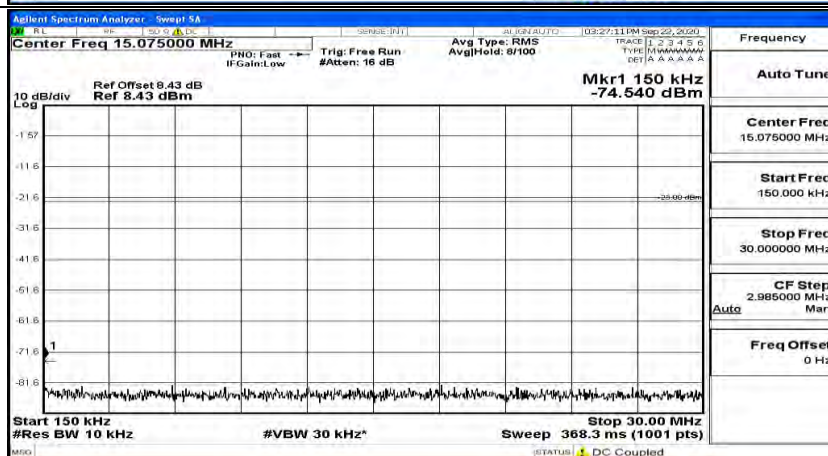
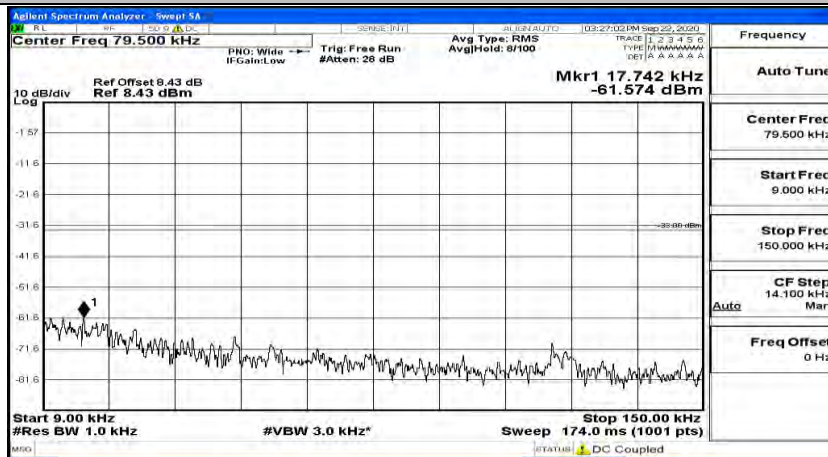




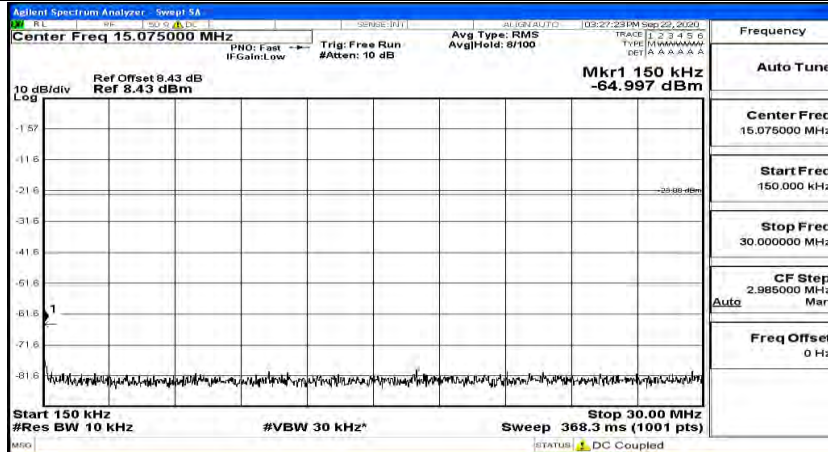
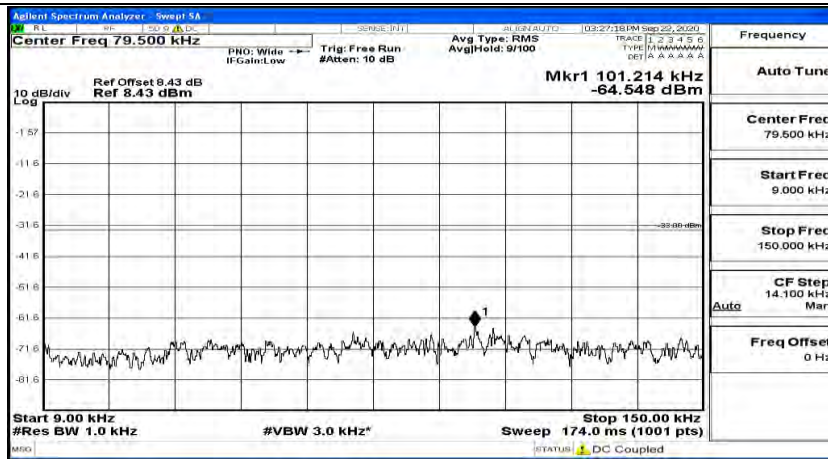
(Channel Bandwidth: 5 MHz) MCH_QPSK_1RB#24



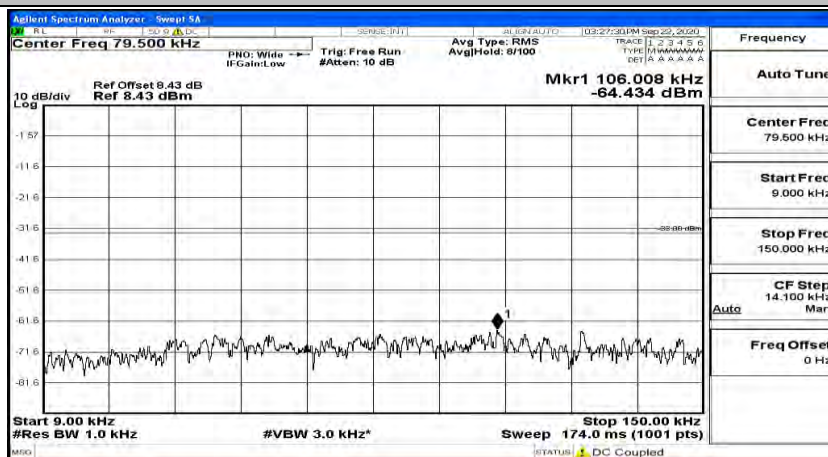
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

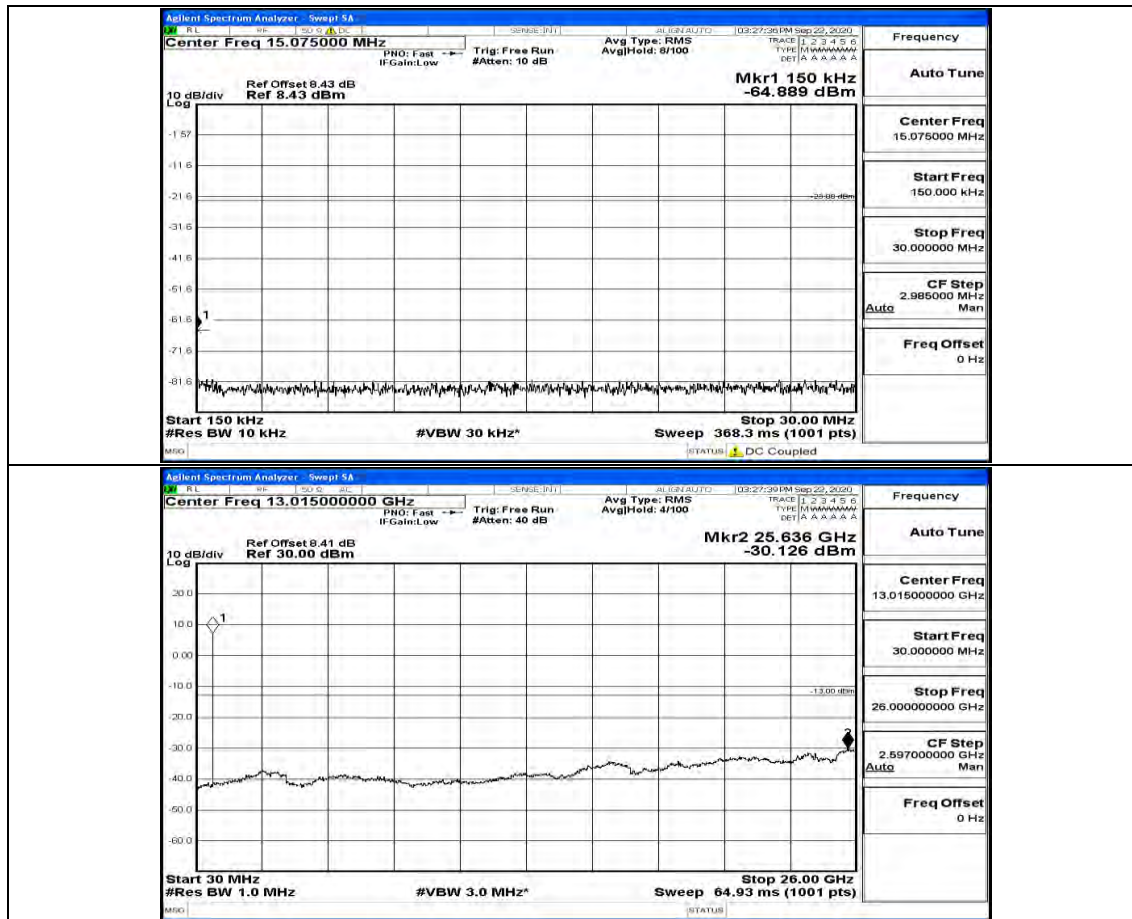


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

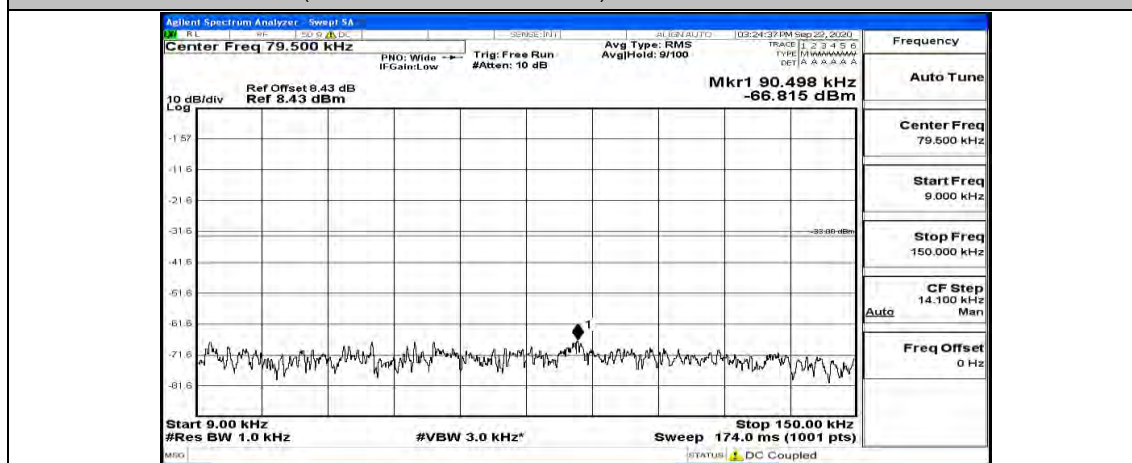


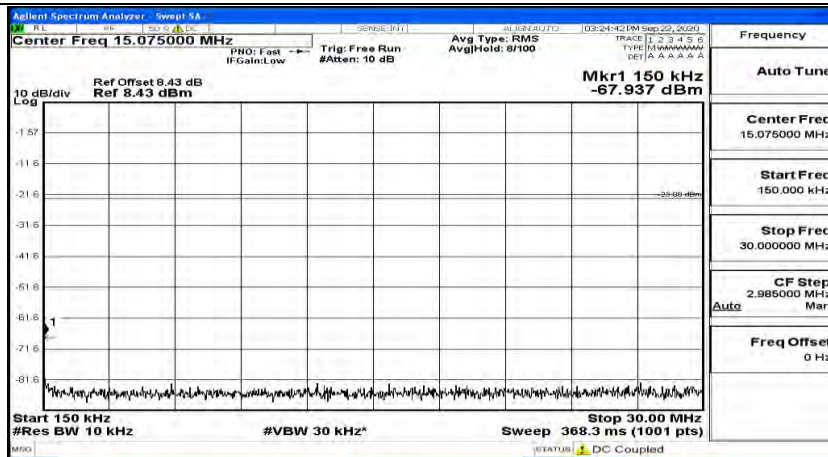
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



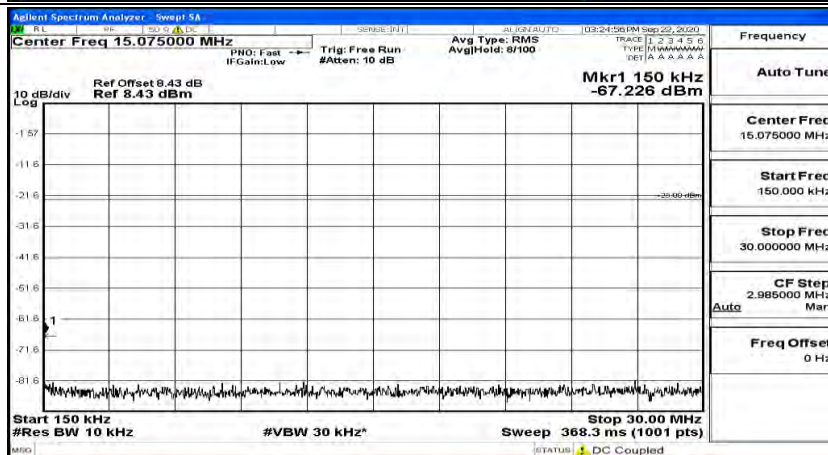
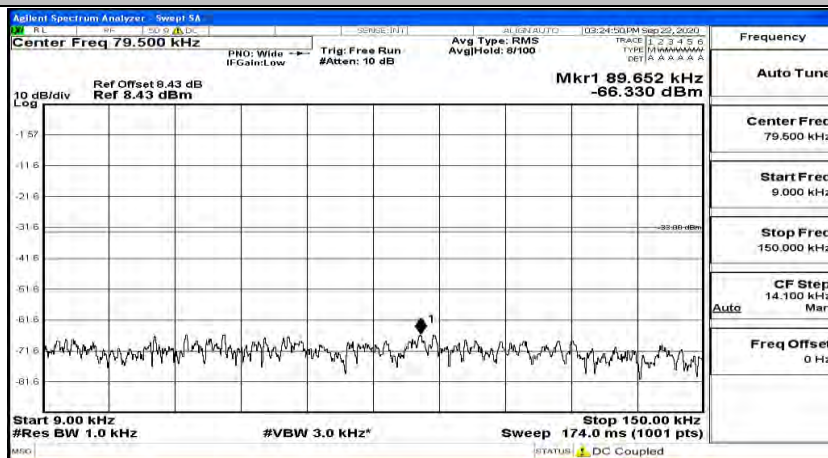


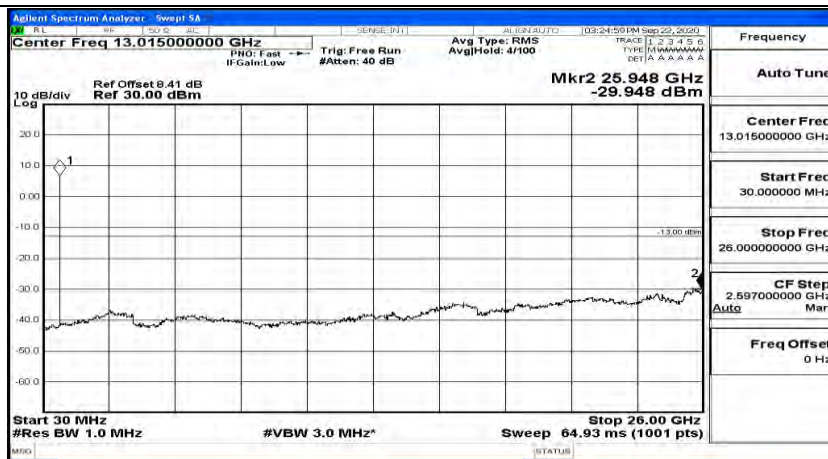
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



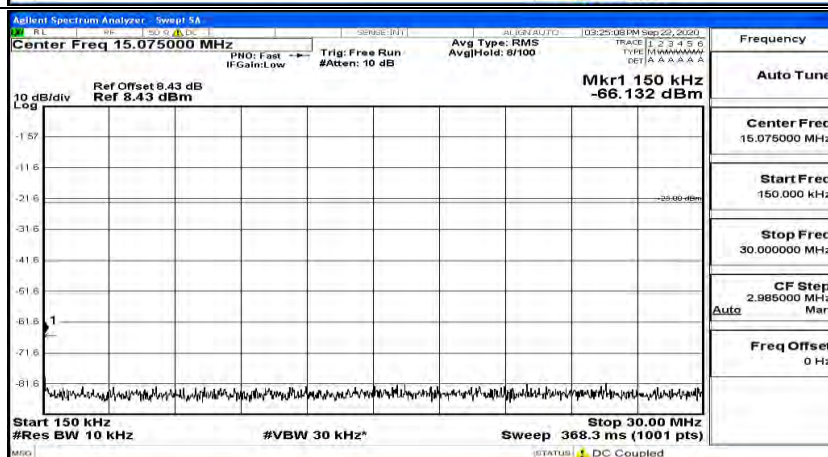
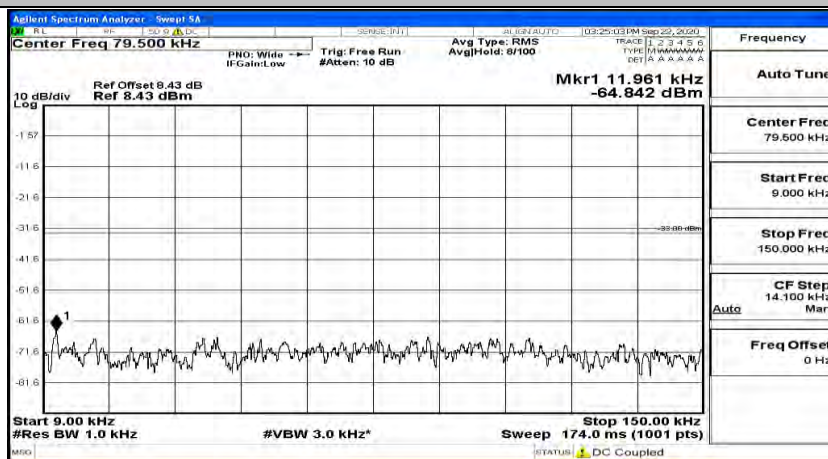


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

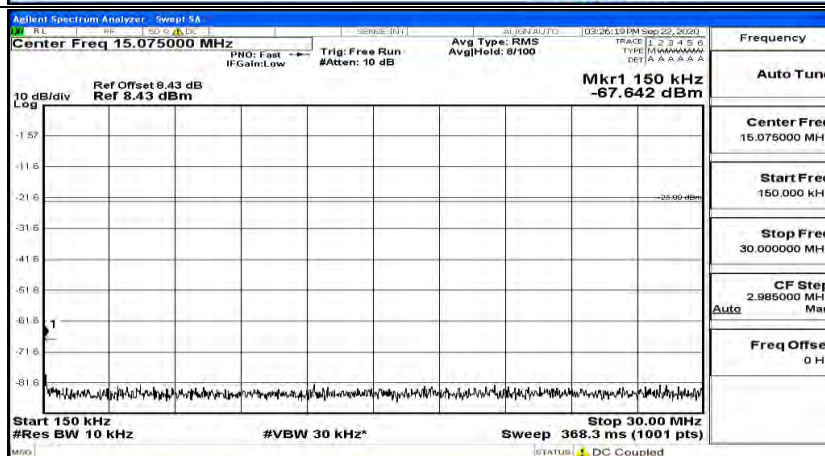
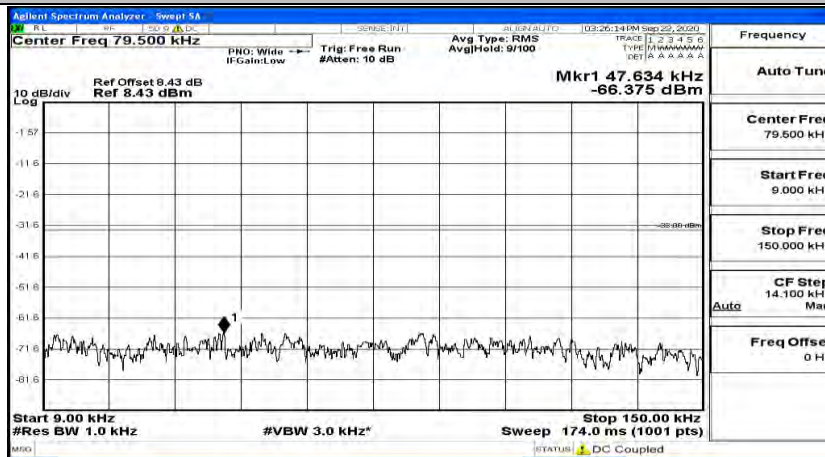




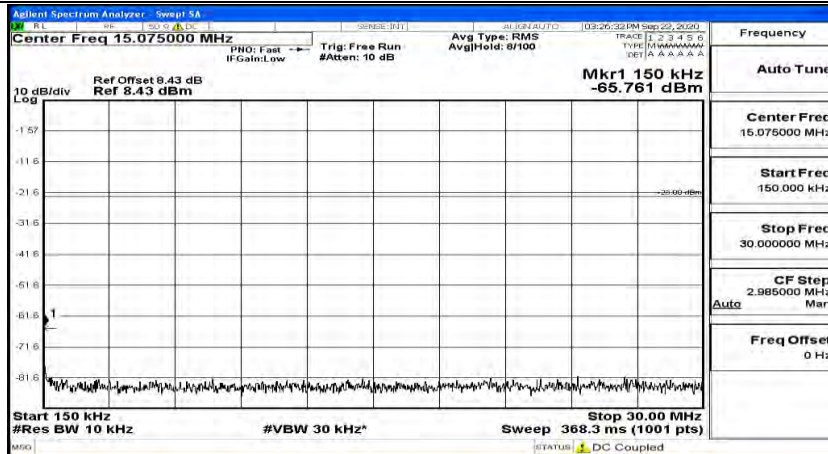
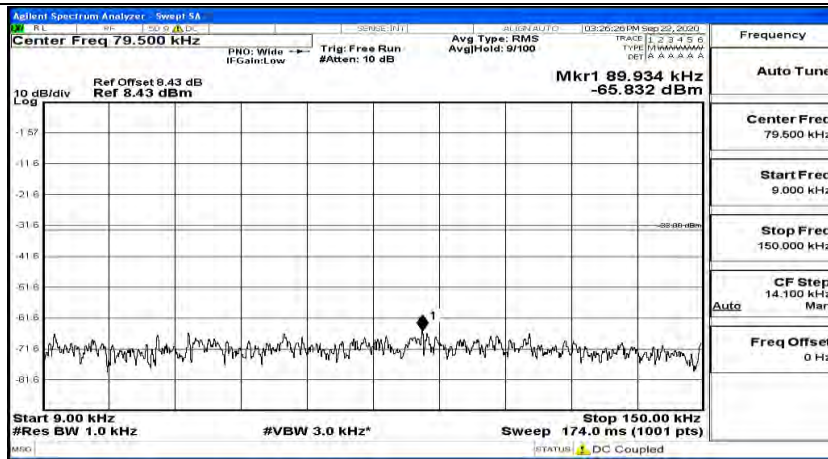
(Channel Bandwidth: 5 MHz) LCH_16QAM_1RB#24



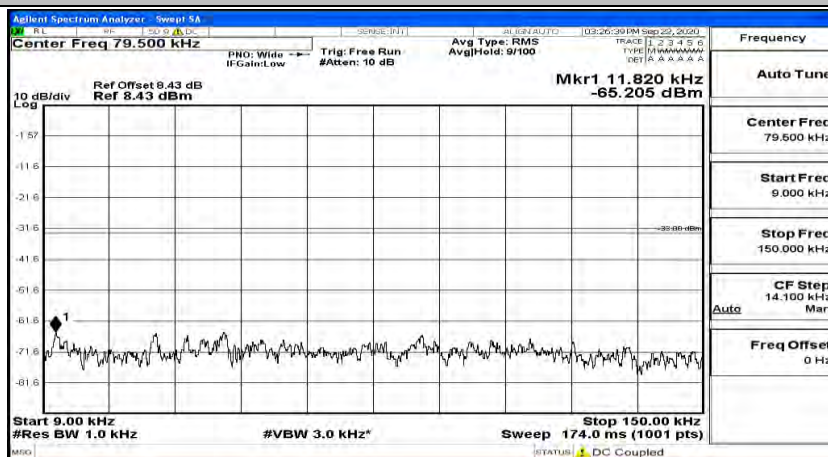
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

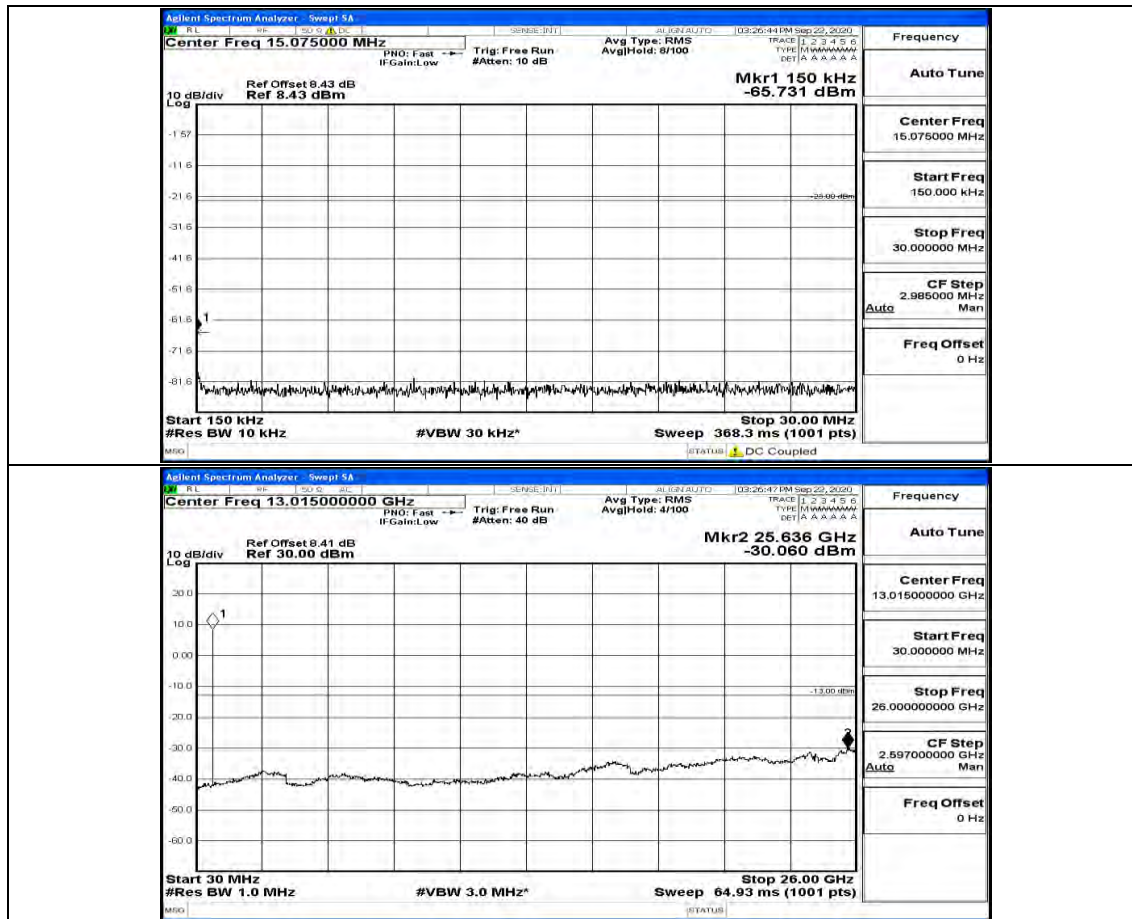


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

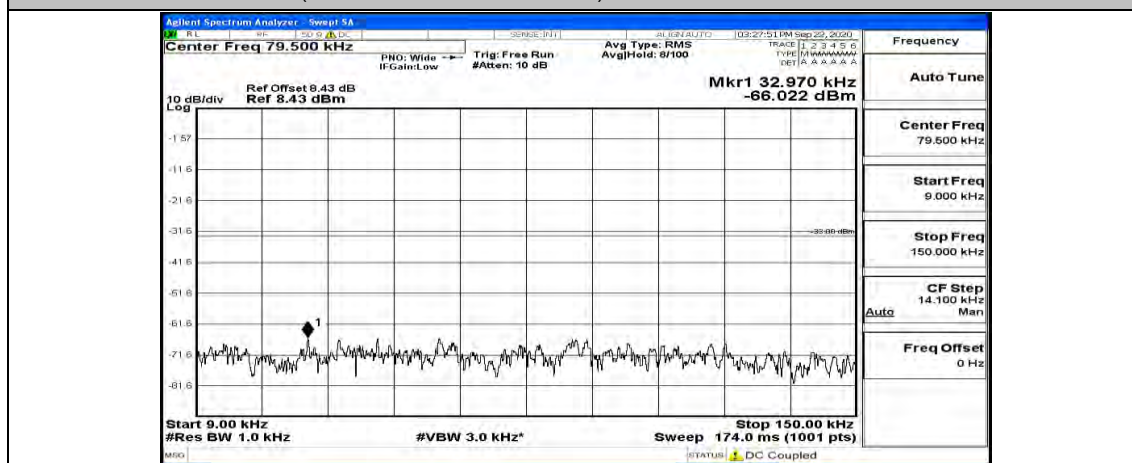


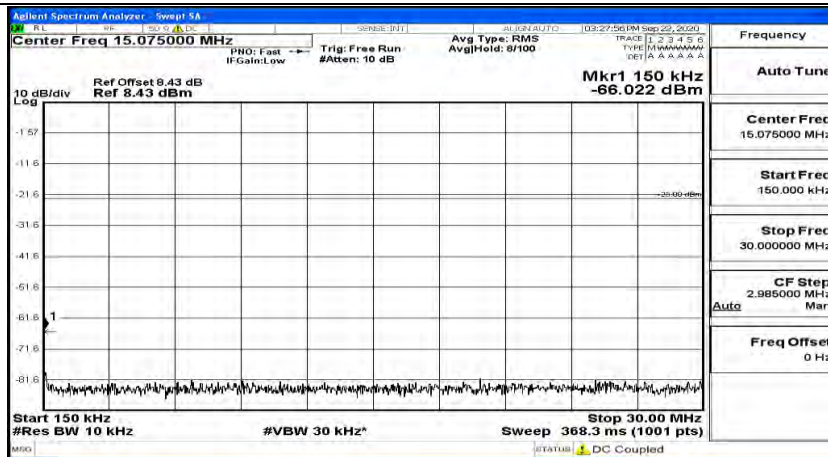
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



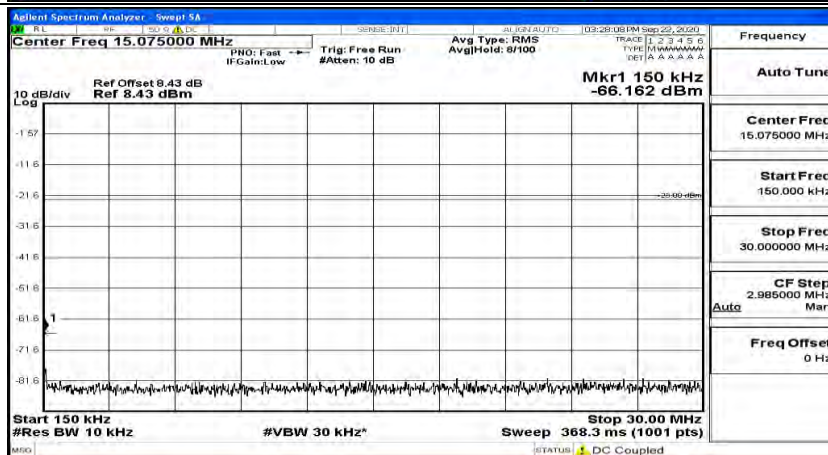
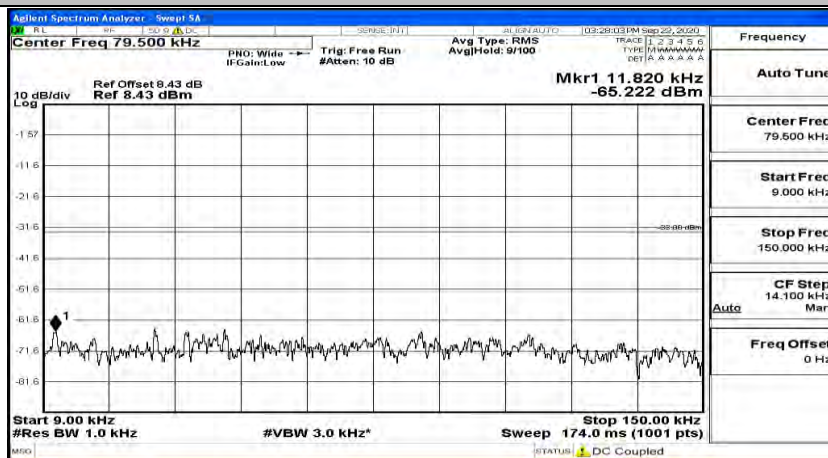


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



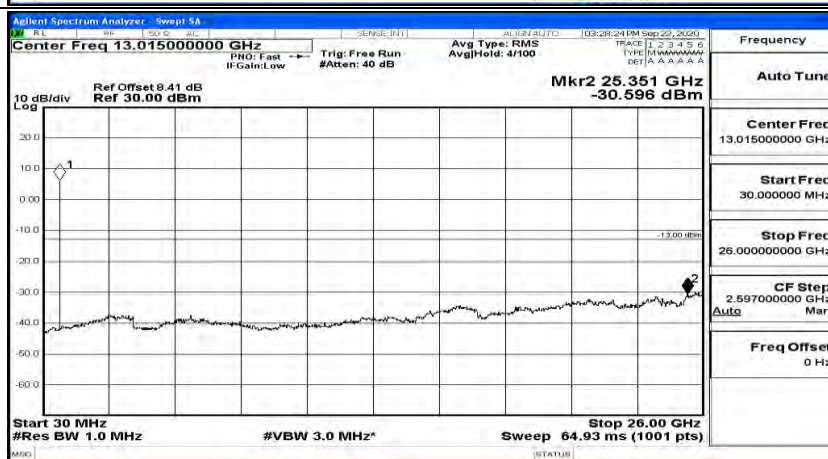
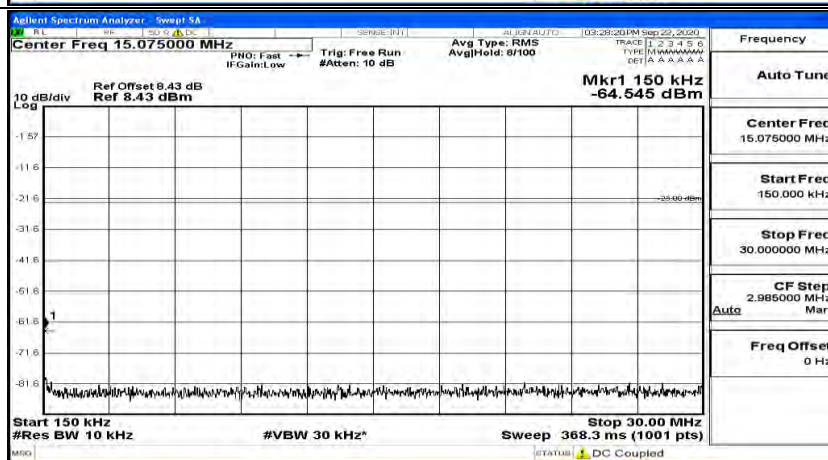
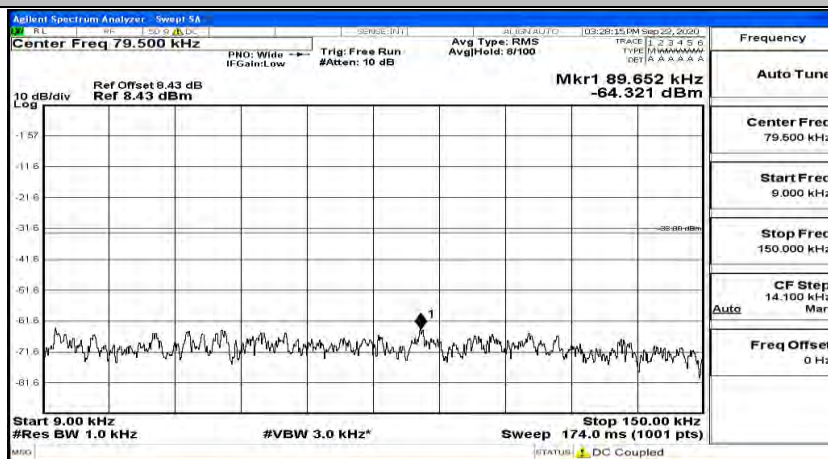


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

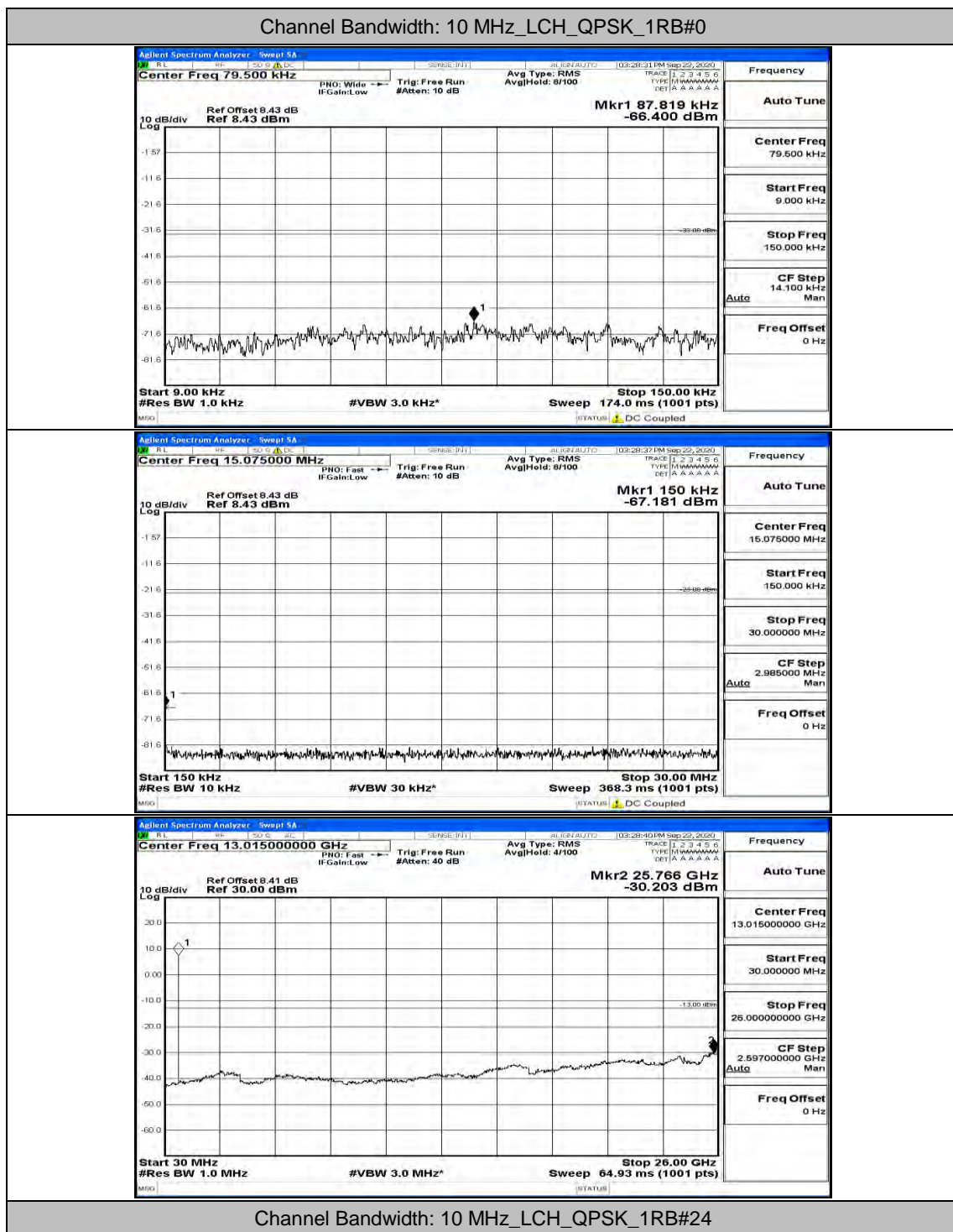


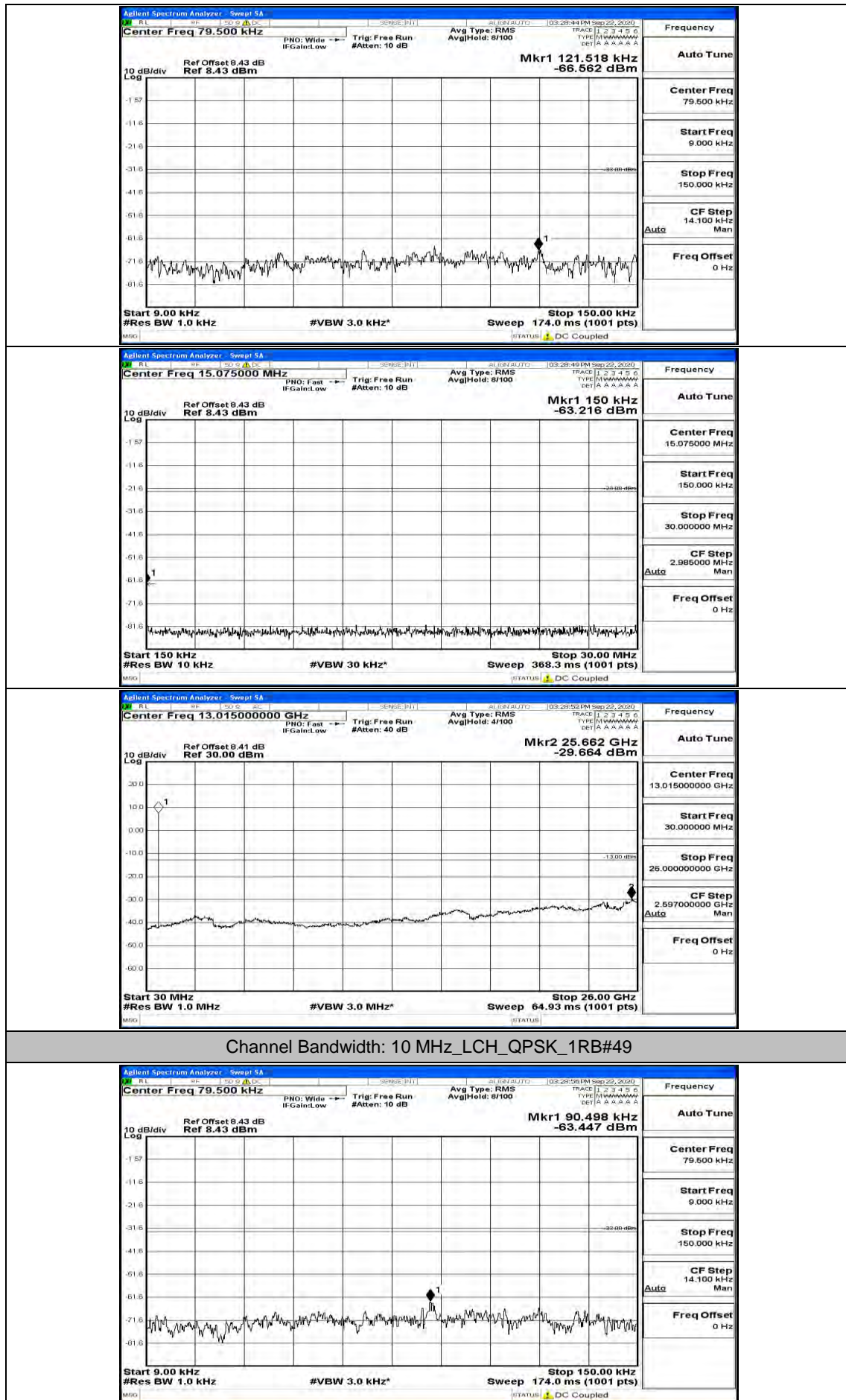


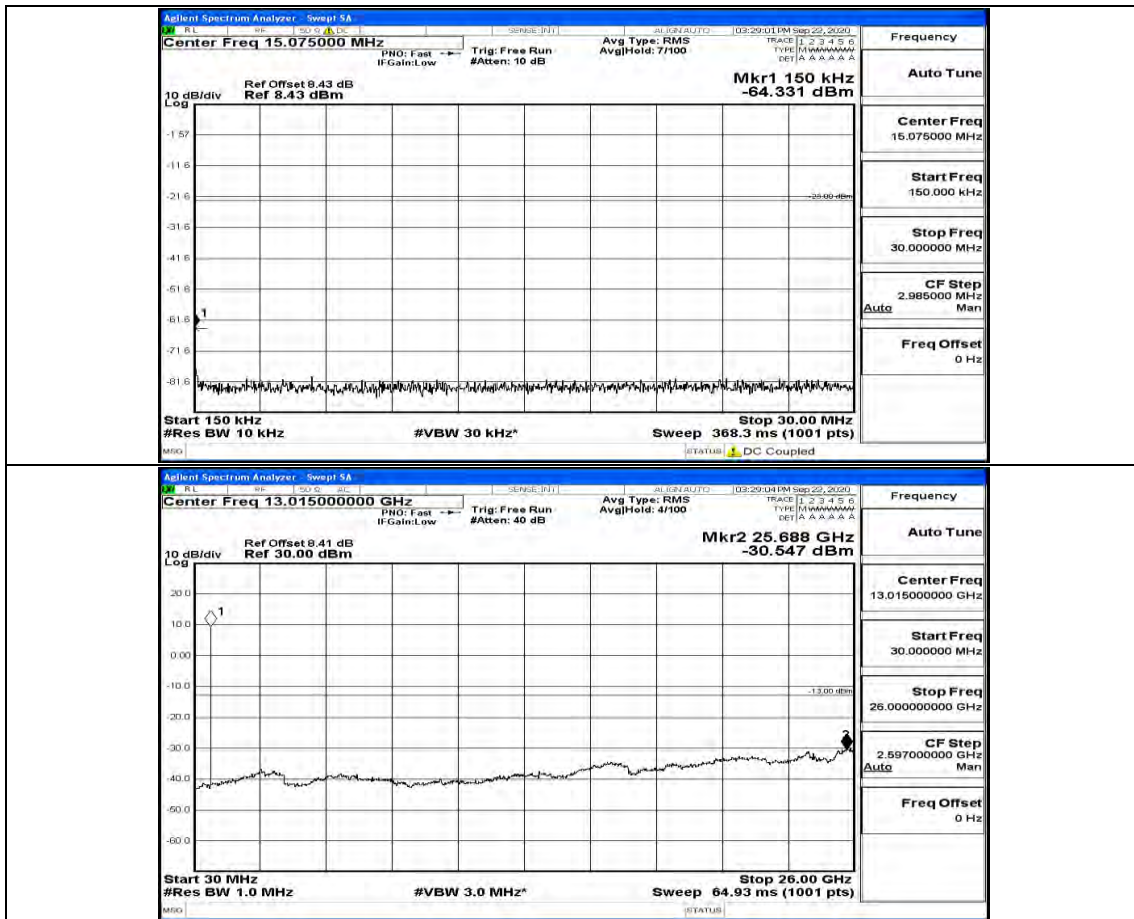
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



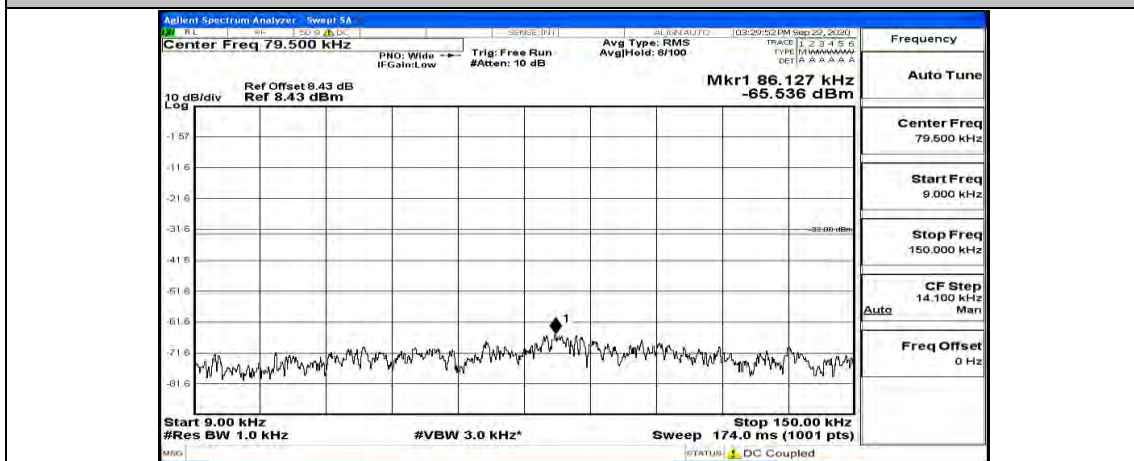
Channel Bandwidth: 10 MHz

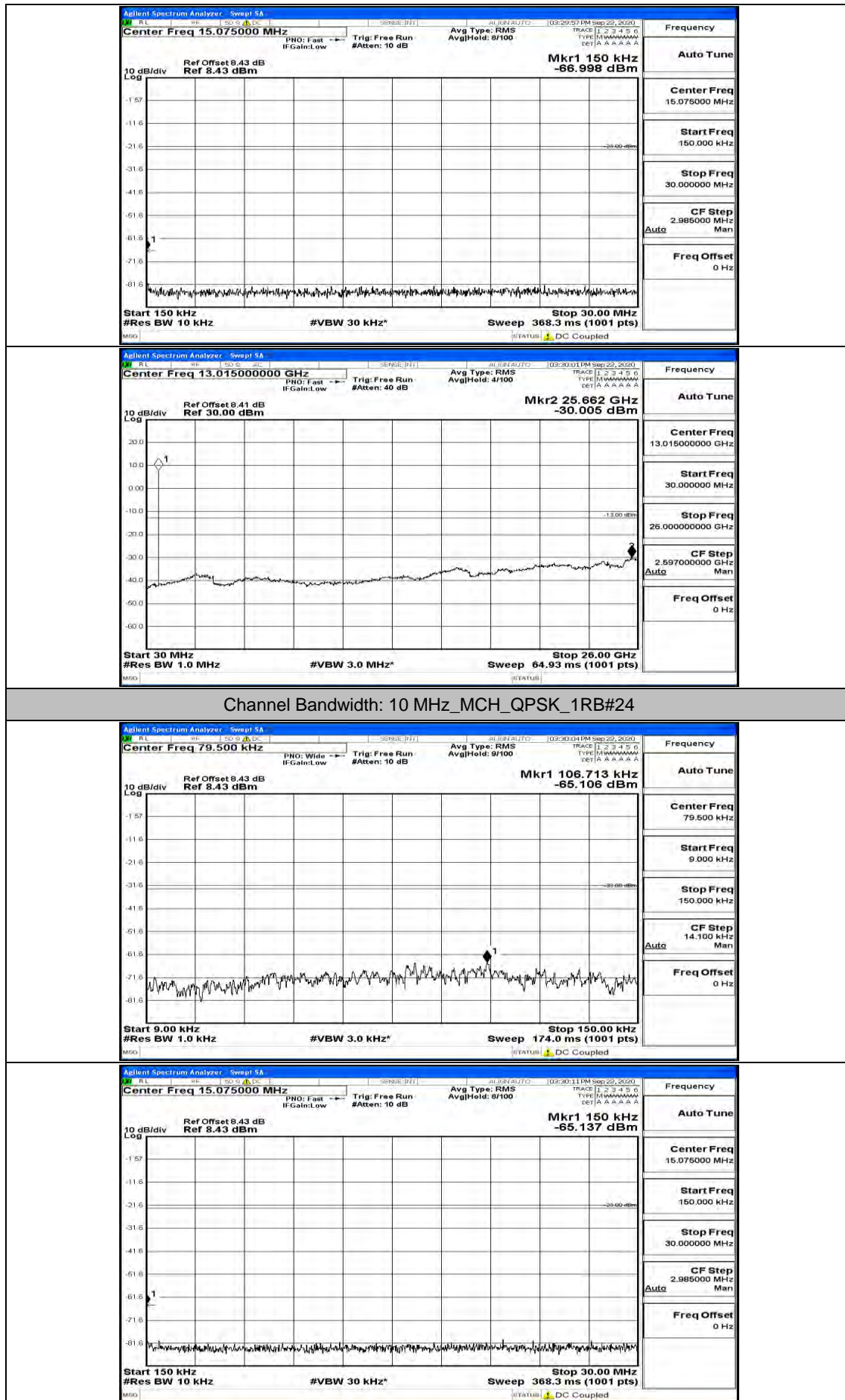


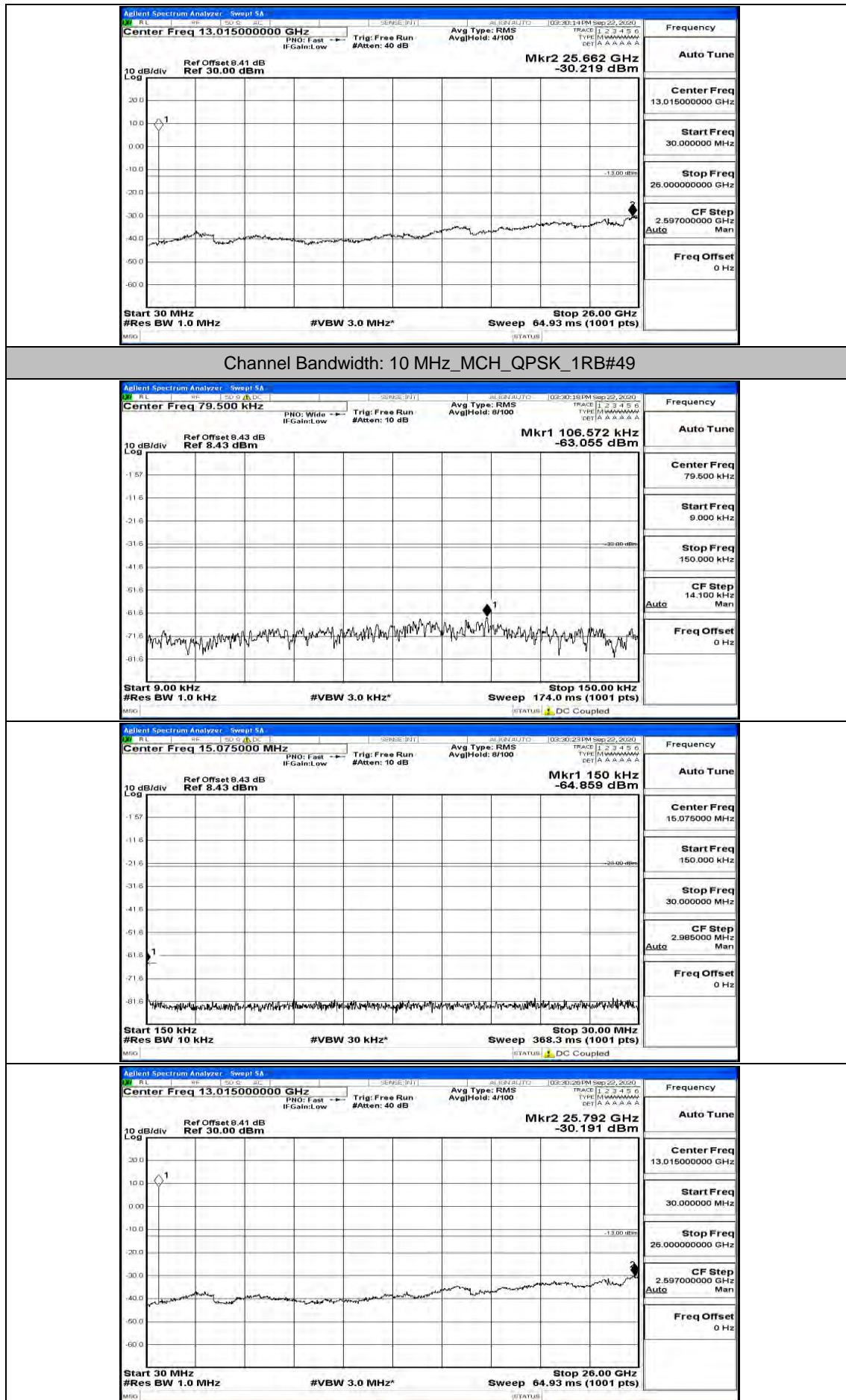




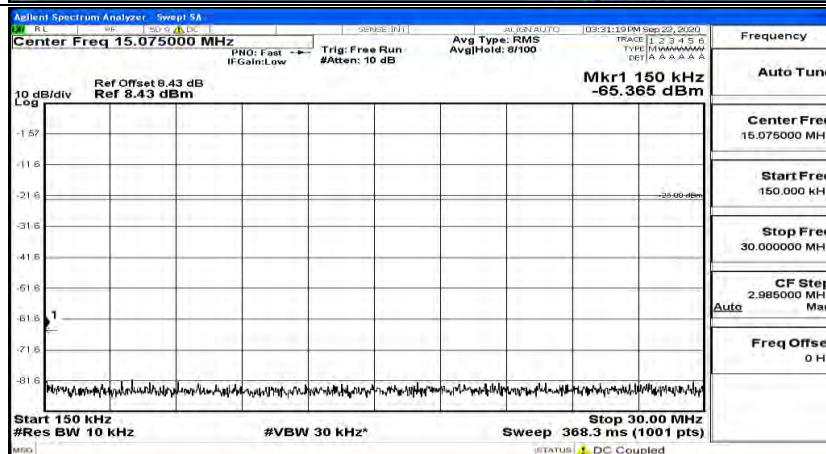
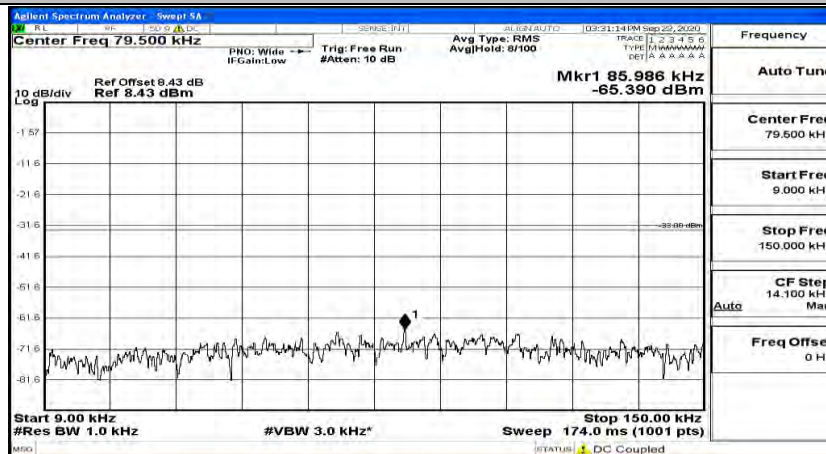
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



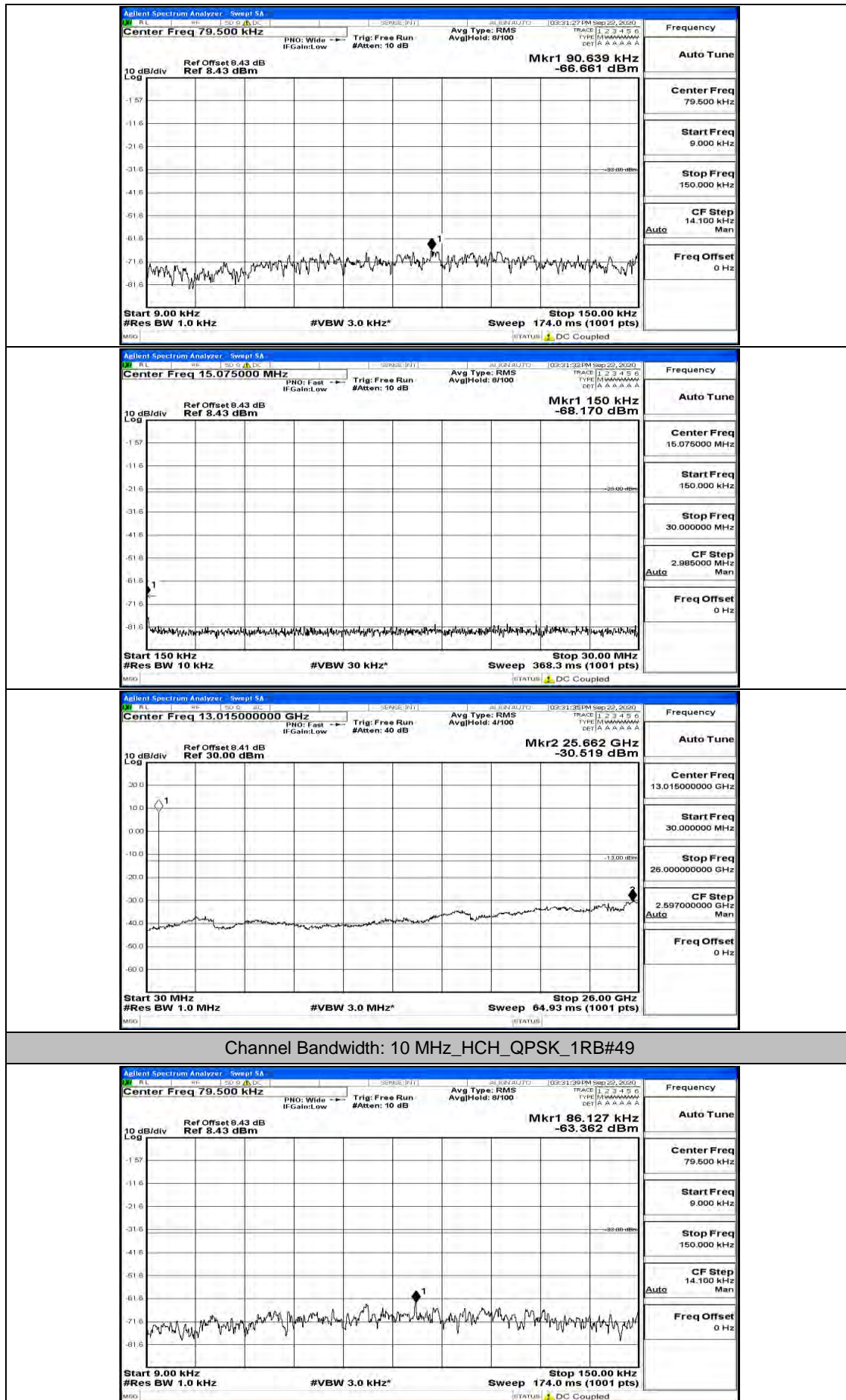


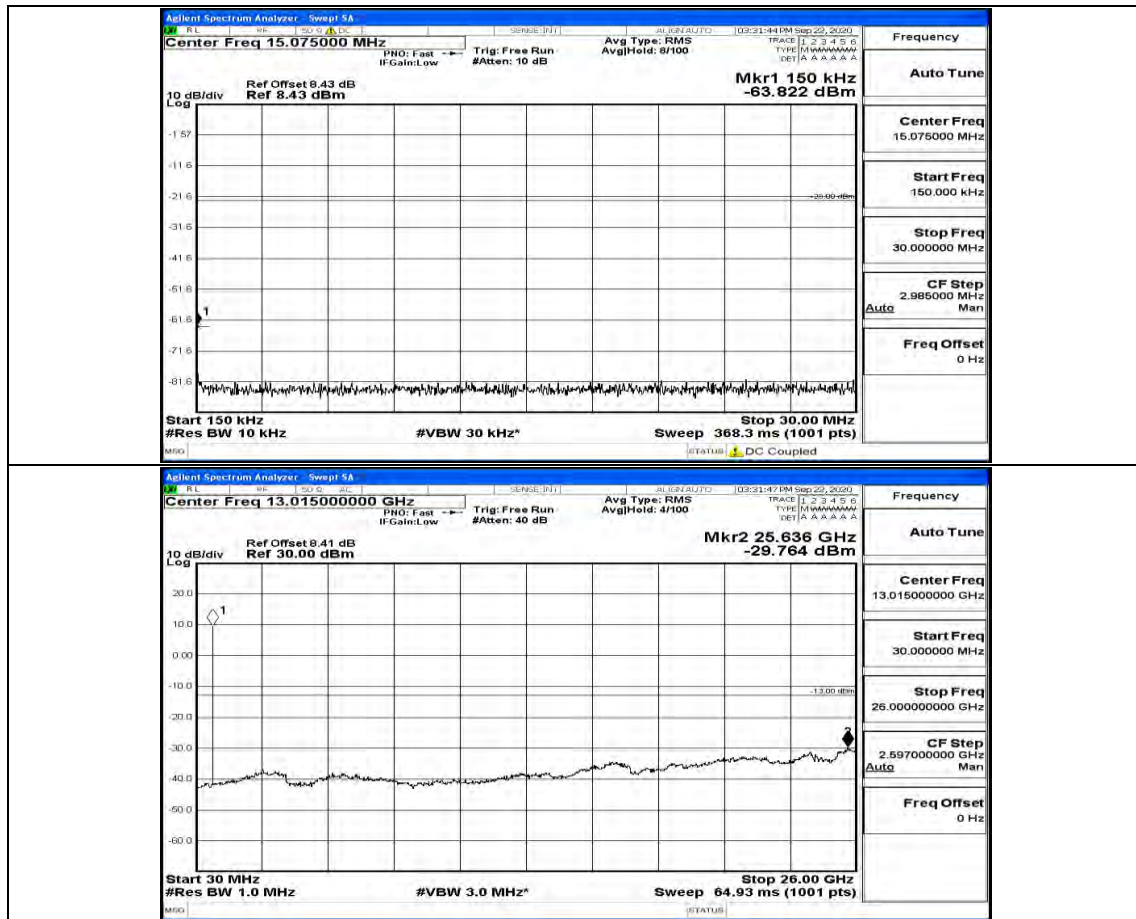


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

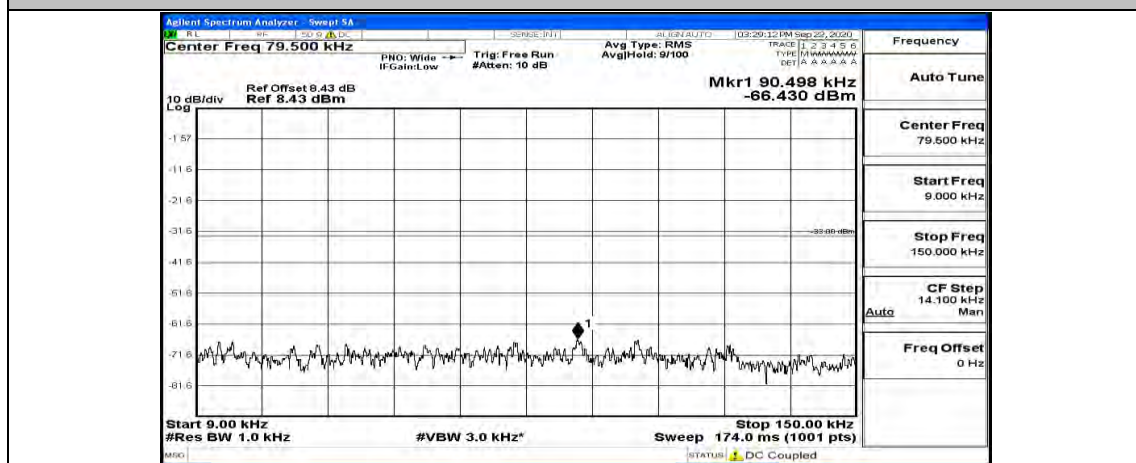


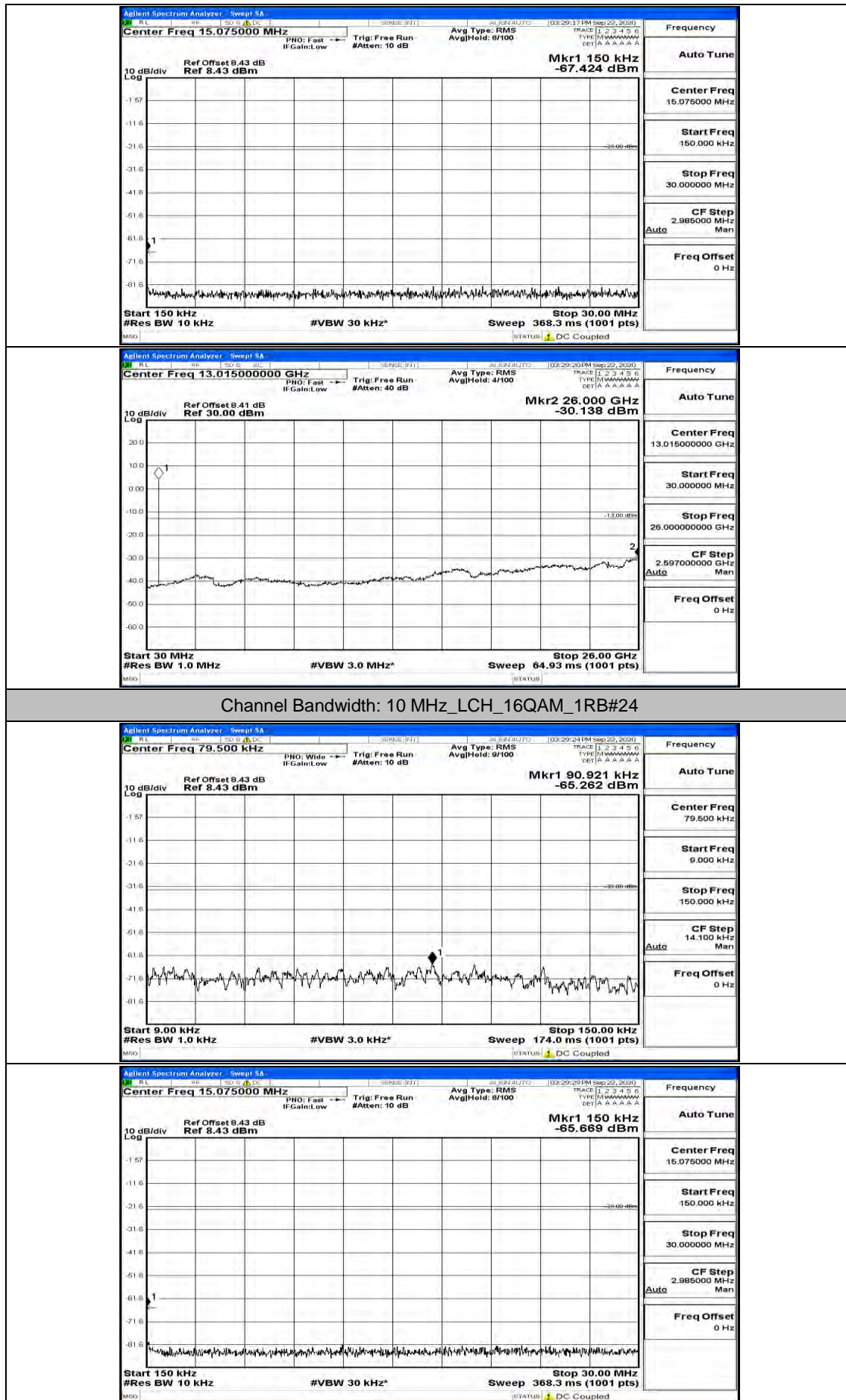
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

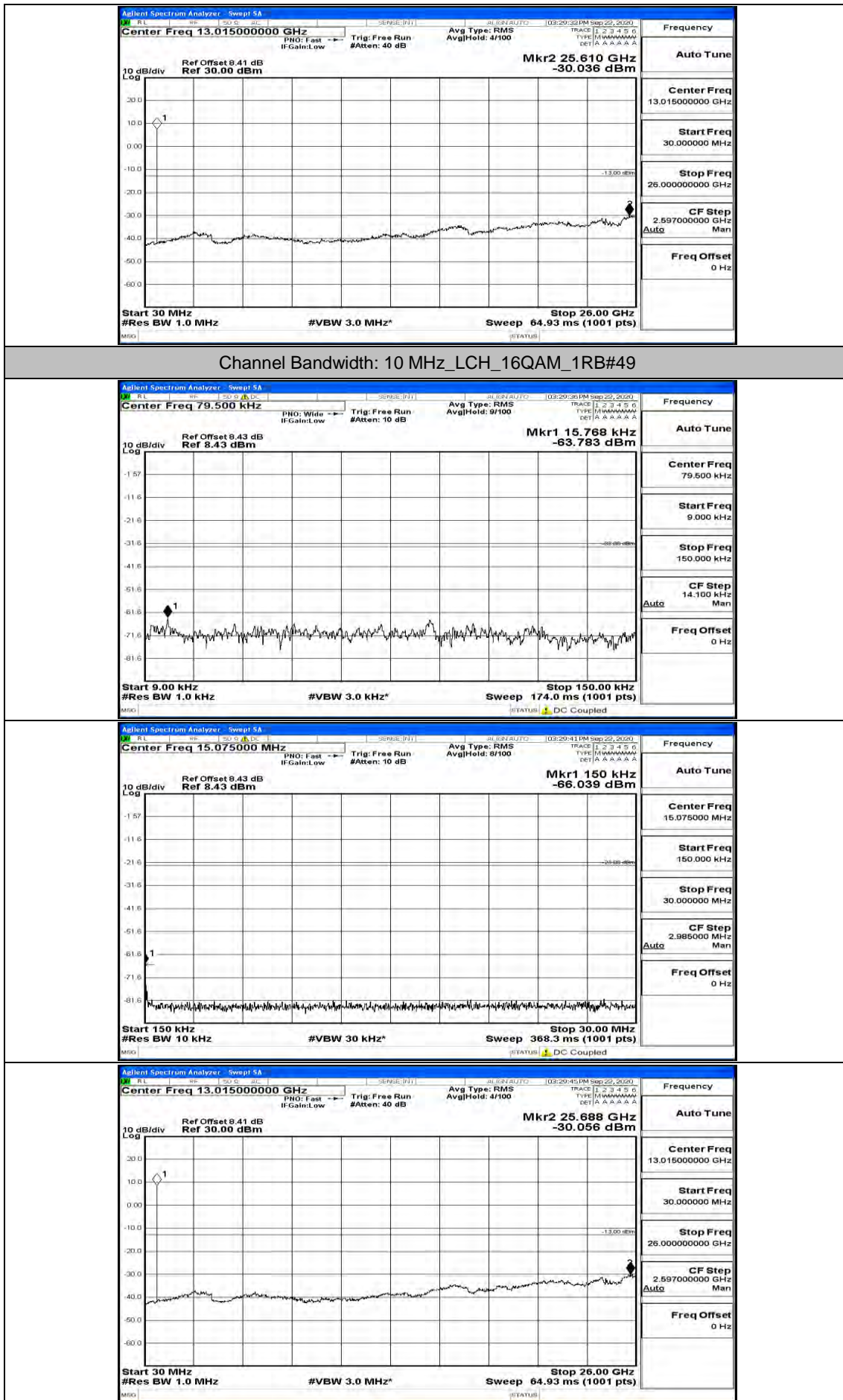




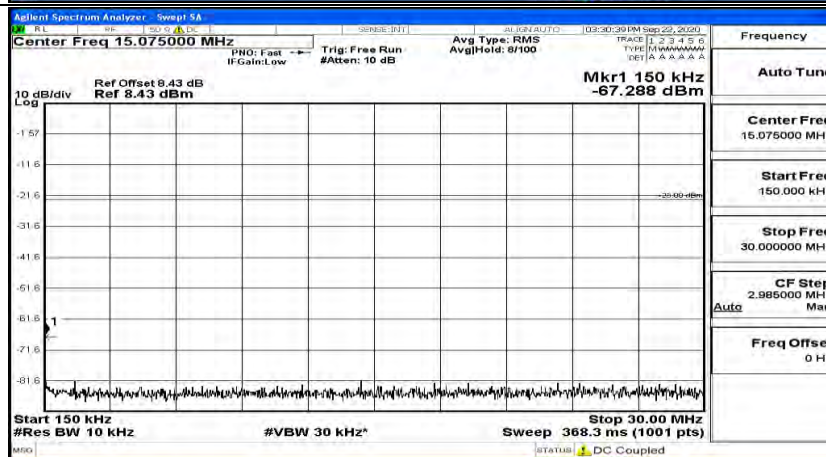
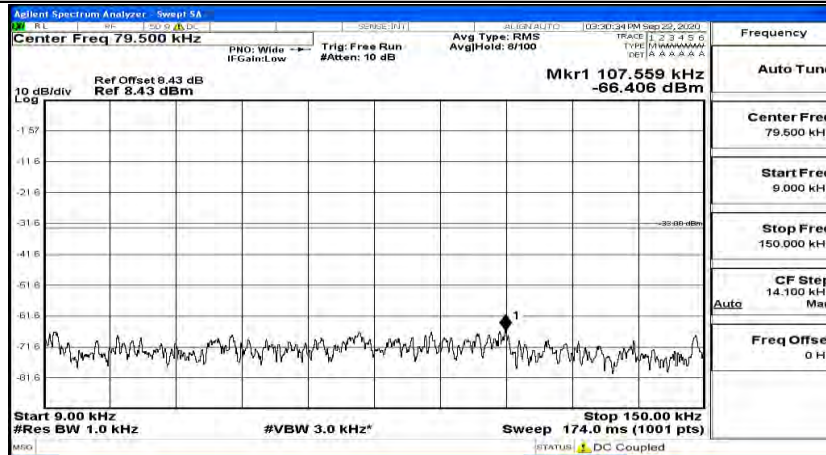
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



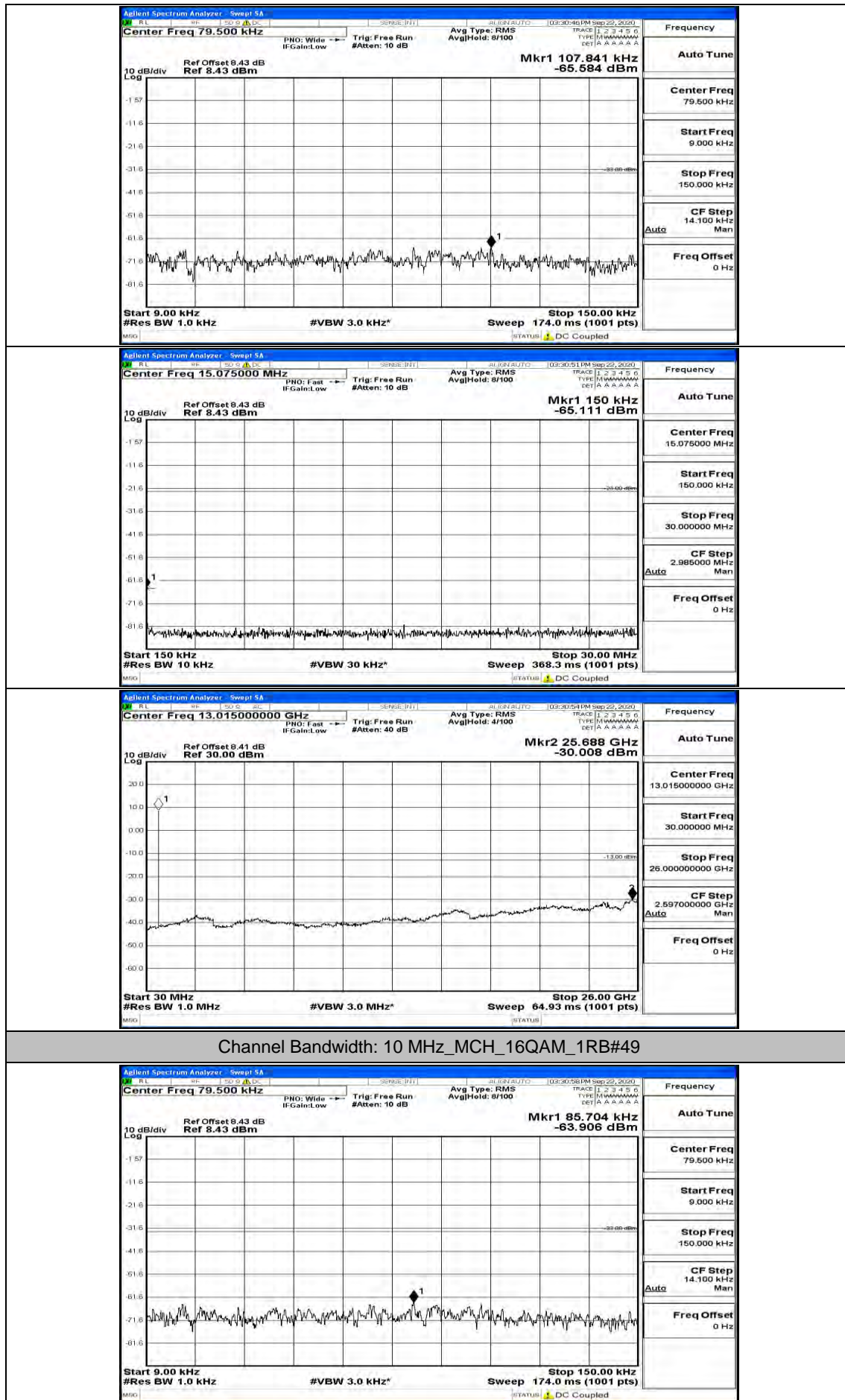


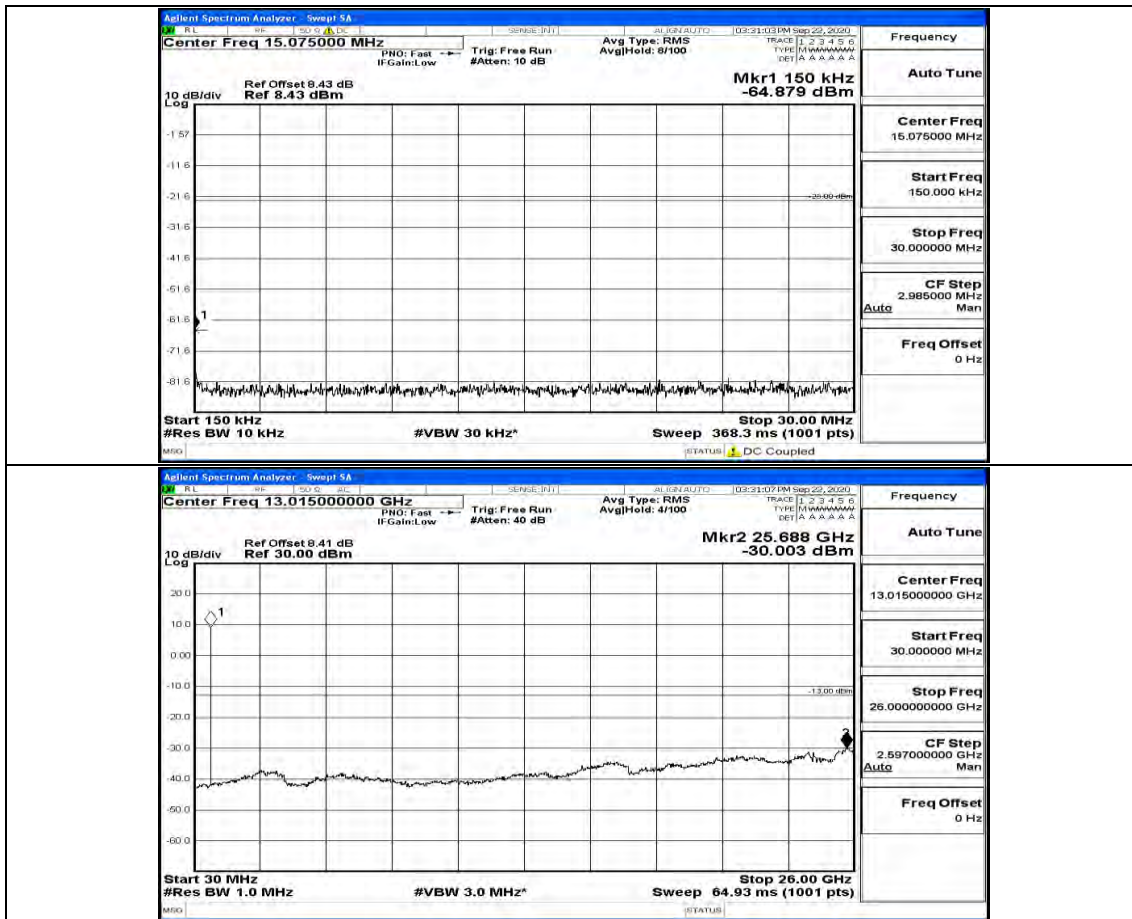


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24





Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

