# Appendix E: Test Data for E-UTRA Band 7

**Product Name: Tablet pc**

**Trade Mark: Touch+**

**Test Model: 1100AS**

## Environmental Conditions

| | |
|---|---|
| Temperature: | 24.5 ° C |
| Relative Humidity: | 53.1% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Diamond Lu |
| Supervised by: | Li Huan |

## E.1 Conducted Output Power

| Conducted Output Power Test Result (Channel Bandwidth: 5 MHz) | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Average Power [dBm] | Average Power [dBm] | Verdict |
| | | Size | Offset | QPSK | 16QAM | |
| QPSK / 16QAM | LCH | 1 | 0 | 23.13 | 22.40 | PASS |
| | | 1 | 12 | 23.27 | 22.61 | PASS |
| | | 1 | 24 | 22.69 | 22.32 | PASS |
| | | 12 | 0 | 22.21 | 21.32 | PASS |
| | | 12 | 6 | 22.20 | 21.21 | PASS |
| | | 12 | 13 | 21.99 | 21.19 | PASS |
| | | 25 | 0 | 22.09 | 21.28 | PASS |
| | MCH | 1 | 0 | 23.72 | 22.06 | PASS |
| | | 1 | 12 | 23.93 | 22.35 | PASS |
| | | 1 | 24 | 23.69 | 22.12 | PASS |
| | | 12 | 0 | 22.96 | 22.08 | PASS |
| | | 12 | 6 | 23.02 | 22.08 | PASS |
| | | 12 | 13 | 22.82 | 21.88 | PASS |
| | | 25 | 0 | 22.95 | 21.97 | PASS |
| | HCH | 1 | 0 | 23.13 | 22.36 | PASS |
| | | 1 | 12 | 23.32 | 22.55 | PASS |
| | | 1 | 24 | 22.95 | 22.21 | PASS |
| | | 12 | 0 | 22.77 | 22.01 | PASS |
| | | 12 | 6 | 22.83 | 22.06 | PASS |
| | | 12 | 13 | 22.86 | 21.85 | PASS |
| | | 25 | 0 | 22.90 | 21.90 | PASS |

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| Conducted Output Power Test Result (Channel Bandwidth: 10 MHz) | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Average Power [dBm] | Average Power [dBm] | Verdict |
| | | Size | Offset | QPSK | 16QAM | |
| QPSK / 16QAM | LCH | 1 | 0 | 22.94 | 22.28 | PASS |
| | | 1 | 24 | 24.04 | 23.42 | PASS |
| | | 1 | 49 | 22.74 | 22.00 | PASS |
| | | 25 | 0 | 22.06 | 20.94 | PASS |
| | | 25 | 12 | 22.15 | 21.18 | PASS |
| | | 25 | 25 | 22.02 | 21.02 | PASS |
| | | 50 | 0 | 22.06 | 21.13 | PASS |
| | MCH | 1 | 0 | 23.28 | 22.63 | PASS |
| | | 1 | 24 | 23.88 | 23.25 | PASS |
| | | 1 | 49 | 23.23 | 22.58 | PASS |
| | | 25 | 0 | 23.04 | 22.00 | PASS |
| | | 25 | 12 | 23.10 | 22.14 | PASS |
| | | 25 | 25 | 22.95 | 21.92 | PASS |
| | | 50 | 0 | 22.99 | 22.08 | PASS |
| | HCH | 1 | 0 | 22.68 | 22.14 | PASS |
| | | 1 | 24 | 23.43 | 22.92 | PASS |
| | | 1 | 49 | 22.43 | 21.92 | PASS |
| | | 25 | 0 | 22.71 | 21.79 | PASS |
| | | 25 | 12 | 22.95 | 22.05 | PASS |
| | | 25 | 25 | 22.87 | 21.93 | PASS |
| | | 50 | 0 | 22.84 | 21.97 | PASS |

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| Conducted Output Power Test Result (Channel Bandwidth: 15 MHz) | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Average Power [dBm] | Average Power [dBm] | Verdict |
| | | Size | Offset | QPSK | 16QAM | |
| QPSK / 16QAM | LCH | 1 | 0 | 23.05 | 22.36 | PASS |
| | | 1 | 37 | 23.80 | 23.07 | PASS |
| | | 1 | 74 | 23.06 | 22.59 | PASS |
| | | 37 | 0 | 22.05 | 21.11 | PASS |
| | | 37 | 18 | 22.14 | 21.07 | PASS |
| | | 37 | 38 | 22.11 | 21.17 | PASS |
| | | 75 | 0 | 22.15 | 21.24 | PASS |
| | MCH | 1 | 0 | 23.60 | 22.93 | PASS |
| | | 1 | 37 | 23.78 | 23.14 | PASS |
| | | 1 | 74 | 23.53 | 22.86 | PASS |
| | | 37 | 0 | 23.01 | 21.90 | PASS |
| | | 37 | 18 | 23.07 | 22.07 | PASS |
| | | 37 | 38 | 22.93 | 21.84 | PASS |
| | | 75 | 0 | 22.94 | 22.03 | PASS |
| | HCH | 1 | 0 | 22.36 | 21.76 | PASS |
| | | 1 | 37 | 23.28 | 22.66 | PASS |
| | | 1 | 74 | 22.42 | 21.82 | PASS |
| | | 37 | 0 | 22.56 | 21.59 | PASS |
| | | 37 | 18 | 22.74 | 21.86 | PASS |
| | | 37 | 38 | 22.80 | 21.75 | PASS |
| | | 75 | 0 | 22.71 | 21.81 | PASS |

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| Conducted Output Power Test Result (Channel Bandwidth: 20 MHz) | | | | | | |
|---|---|---|---|---|---|---|
| Modulation | Channel | RB Configuration | | Average Power [dBm] | Average Power [dBm] | Verdict |
| | | Size | Offset | QPSK | 16QAM | |
| QPSK / 16QAM | LCH | 1 | 0 | 22.76 | 21.97 | PASS |
| | | 1 | 49 | 23.97 | 22.76 | PASS |
| | | 1 | 99 | 23.08 | 21.79 | PASS |
| | | 50 | 0 | 22.23 | 21.27 | PASS |
| | | 50 | 25 | 22.27 | 21.45 | PASS |
| | | 50 | 50 | 22.43 | 21.33 | PASS |
| | | 100 | 0 | 22.29 | 21.36 | PASS |
| | MCH | 1 | 0 | 23.55 | 22.78 | PASS |
| | | 1 | 49 | 23.82 | 23.06 | PASS |
| | | 1 | 99 | 23.39 | 22.60 | PASS |
| | | 50 | 0 | 22.96 | 21.90 | PASS |
| | | 50 | 25 | 23.11 | 22.16 | PASS |
| | | 50 | 50 | 23.04 | 22.14 | PASS |
| | | 100 | 0 | 23.00 | 21.96 | PASS |
| | HCH | 1 | 0 | 22.54 | 21.92 | PASS |
| | | 1 | 49 | 23.41 | 22.82 | PASS |
| | | 1 | 99 | 22.16 | 21.55 | PASS |
| | | 50 | 0 | 22.76 | 21.87 | PASS |
| | | 50 | 25 | 22.82 | 21.94 | PASS |
| | | 50 | 50 | 22.85 | 21.82 | PASS |
| | | 100 | 0 | 22.85 | 21.83 | PASS |

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## E.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 | 5.09 | <13 | PASS |
| | MCH | 5.03 | <13 | PASS |
| | HCH | 4.28 | <13 | PASS |
| 16QAM | LCH | 5.9 | <13 | PASS |
| | MCH | 5.83 | <13 | PASS |
| | HCH | 5.16 | <13 | PASS |

| Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz) | | | | |
|---|---|---|---|---|
| Modulation | Channel | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| QPSK | LCH | 5.02 | <13 | PASS |
| | MCH | 5.02 | <13 | PASS |
| | HCH | 4.63 | <13 | PASS |
| 16QAM | LCH | 5.78 | <13 | PASS |
| | MCH | 5.81 | <13 | PASS |
| | HCH | 5.43 | <13 | PASS |

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| Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz) | | | | |
|---|---|---|---|---|
| Modulation | Channel | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| QPSK | LCH | 4.91 | <13 | PASS |
| | MCH | 4.99 | <13 | PASS |
| | HCH | 4.94 | <13 | PASS |
| 16QAM | LCH | 6.1 | <13 | PASS |
| | MCH | 6.2 | <13 | PASS |
| | HCH | 6.09 | <13 | PASS |

| Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz) | | | | |
|---|---|---|---|---|
| Modulation | Channel | Peak-to-Average Ratio [dB] | Limit [dB] | Verdict |
| QPSK | LCH | 5.72 | <13 | PASS |
| | MCH | 5.73 | <13 | PASS |
| | HCH | 5.77 | <13 | PASS |
| 16QAM | LCH | 6.63 | <13 | PASS |
| | MCH | 6.77 | <13 | PASS |
| | HCH | 6.67 | <13 | PASS |

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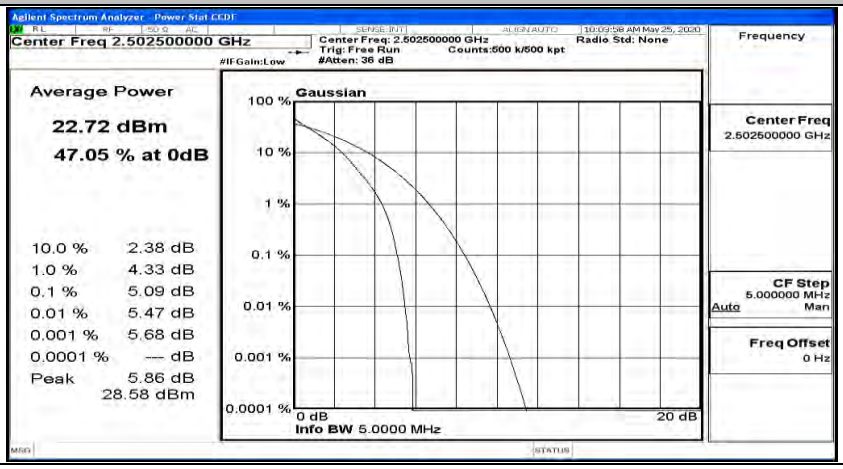
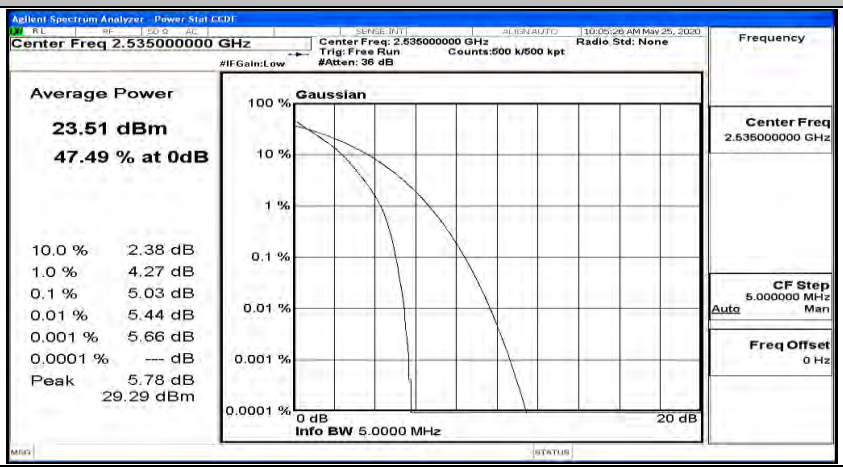
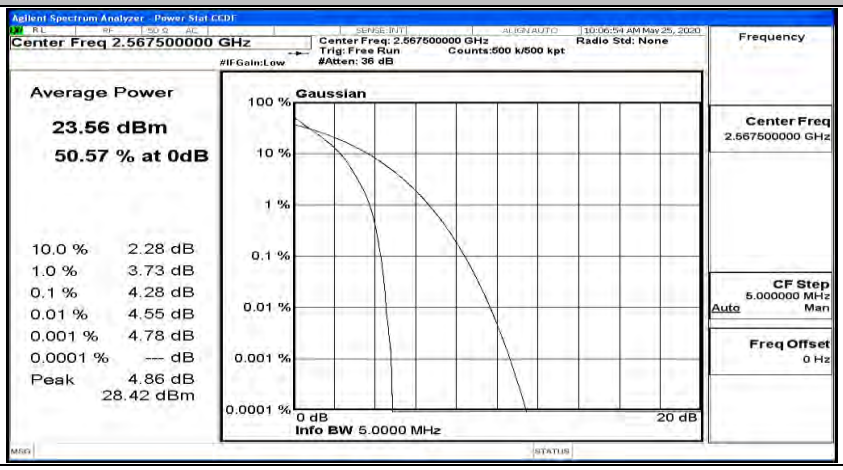
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



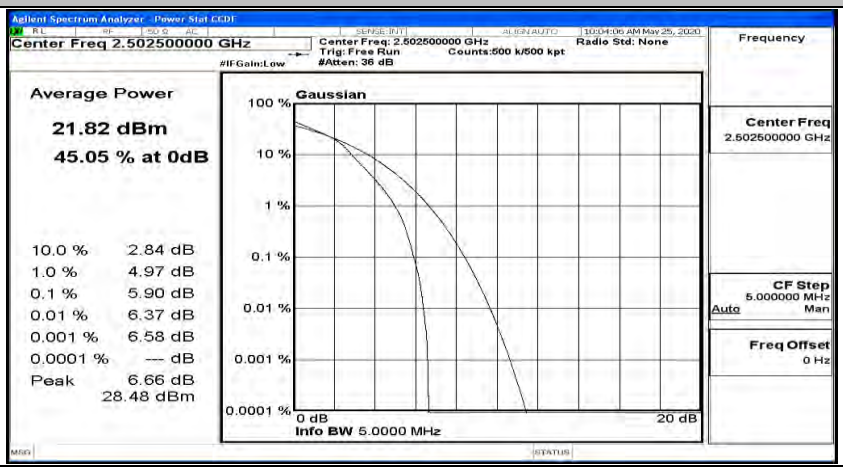

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



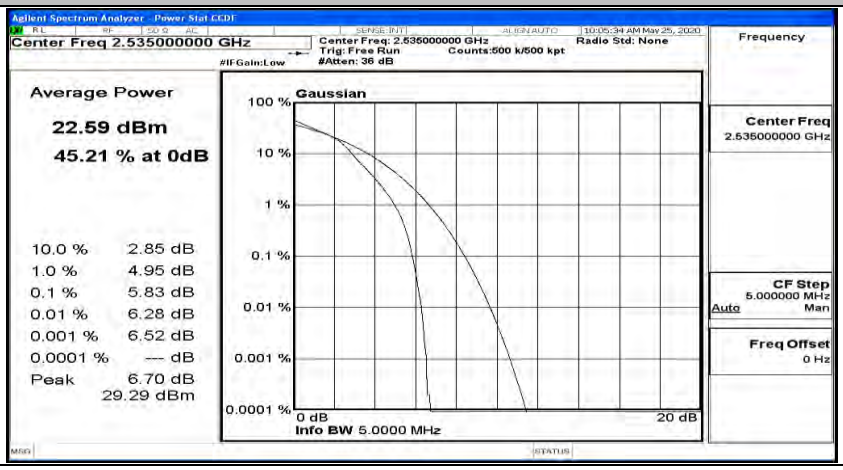

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



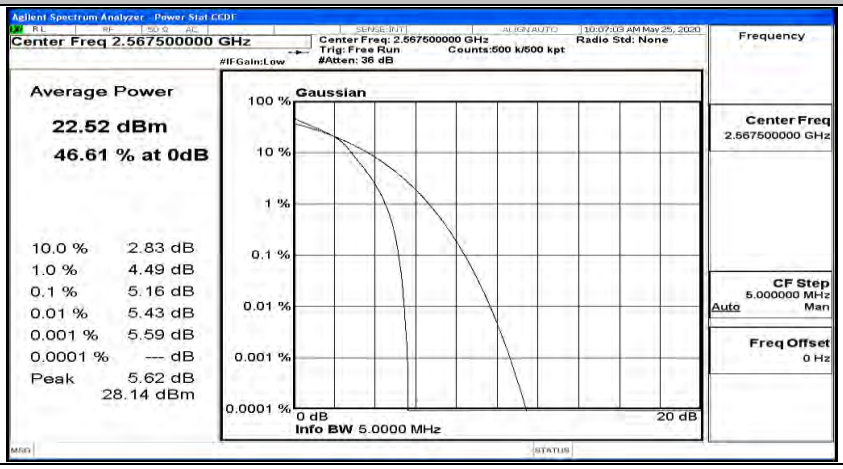
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



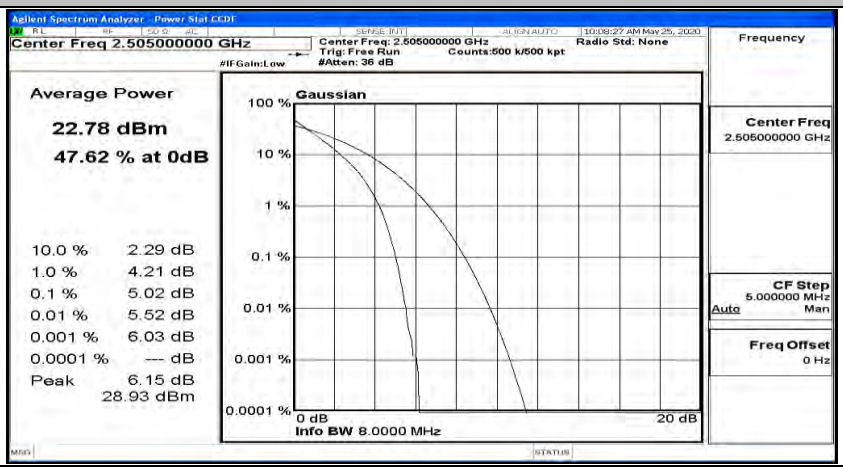

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



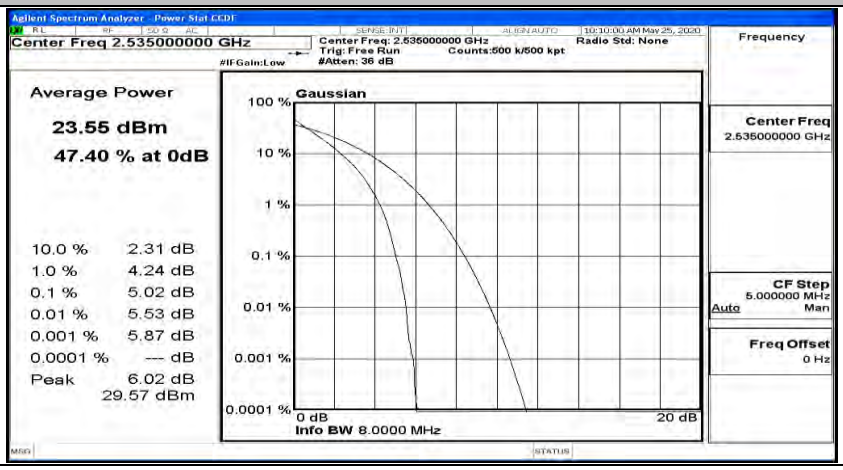

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



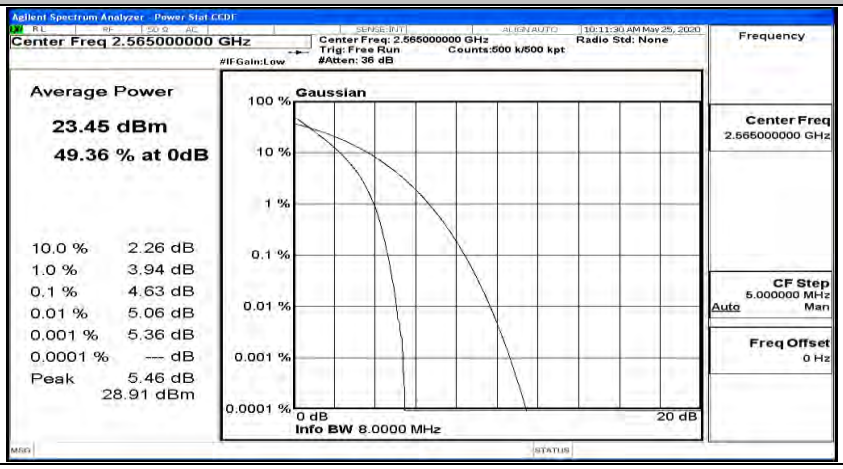
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



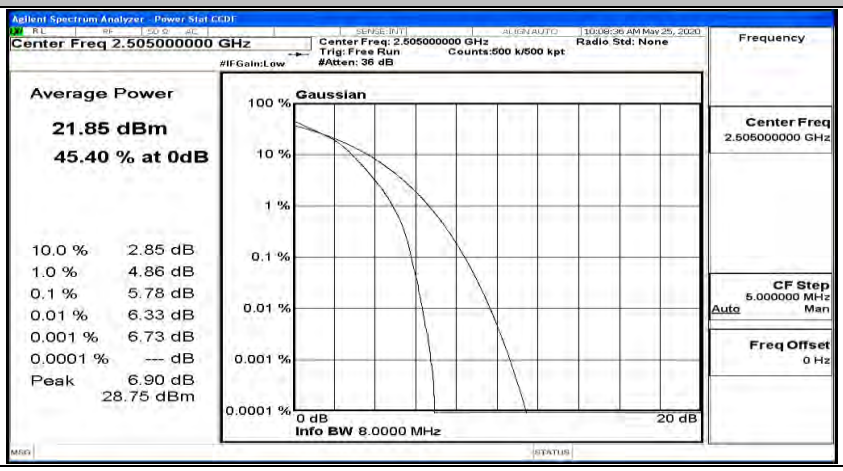

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



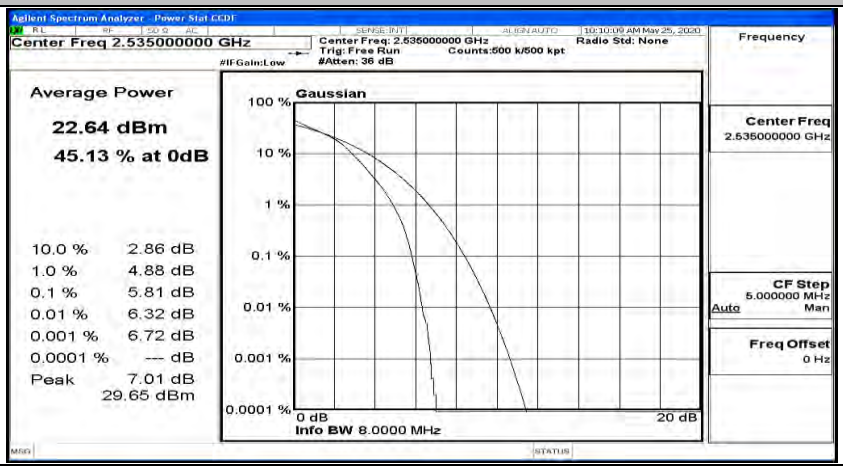

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



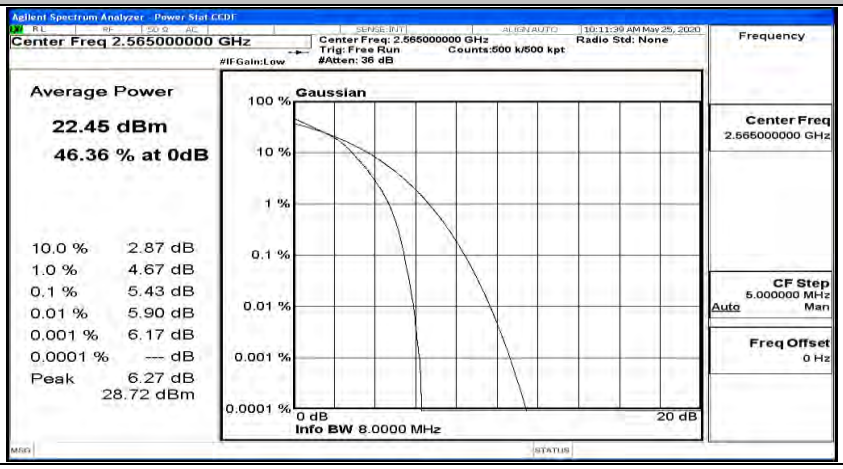
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



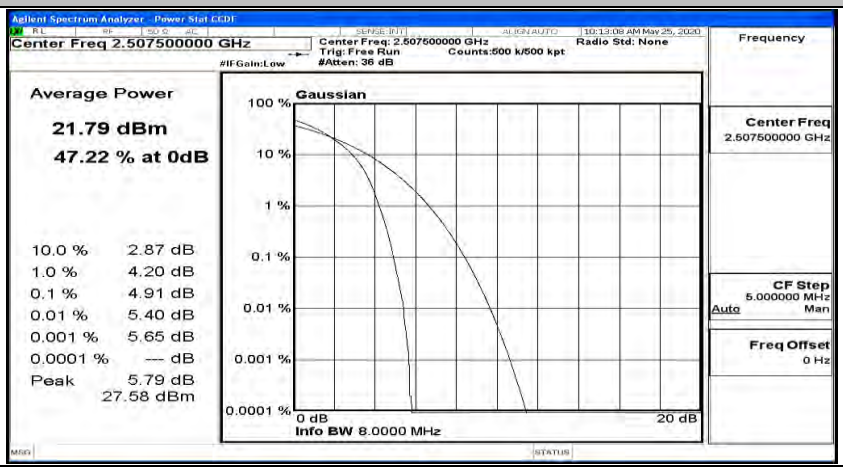

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



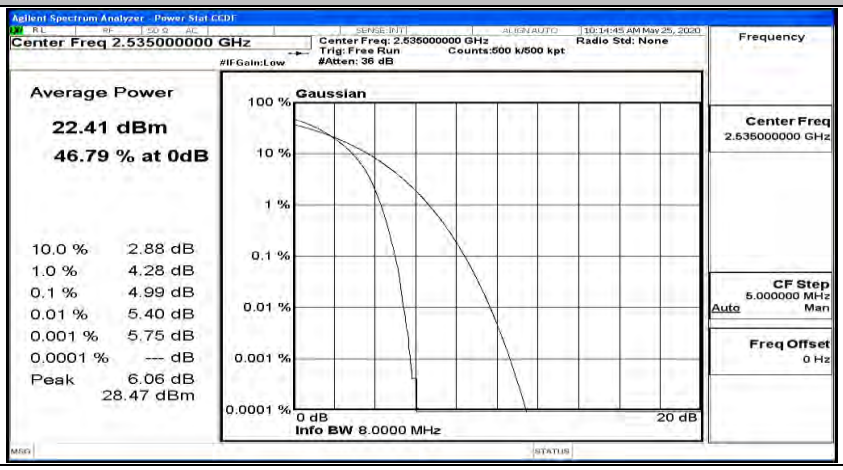

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



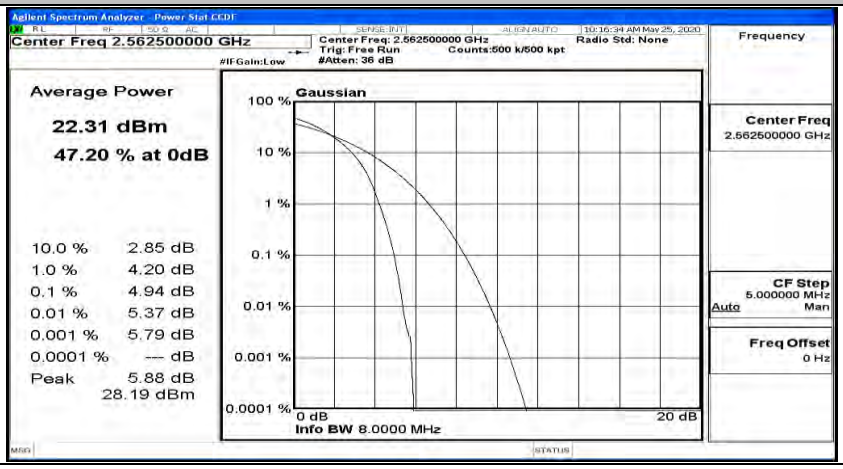
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



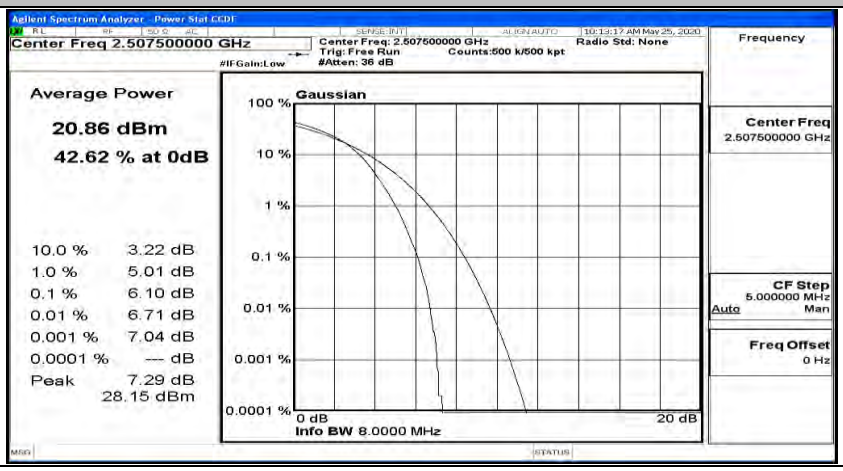

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



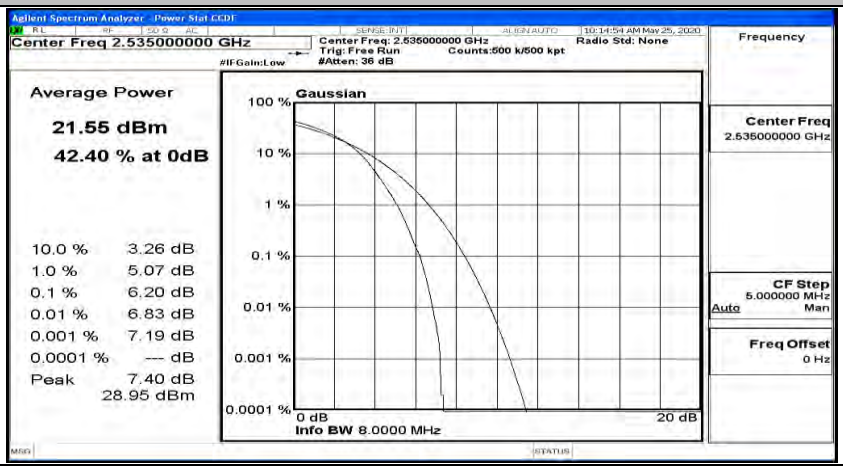

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



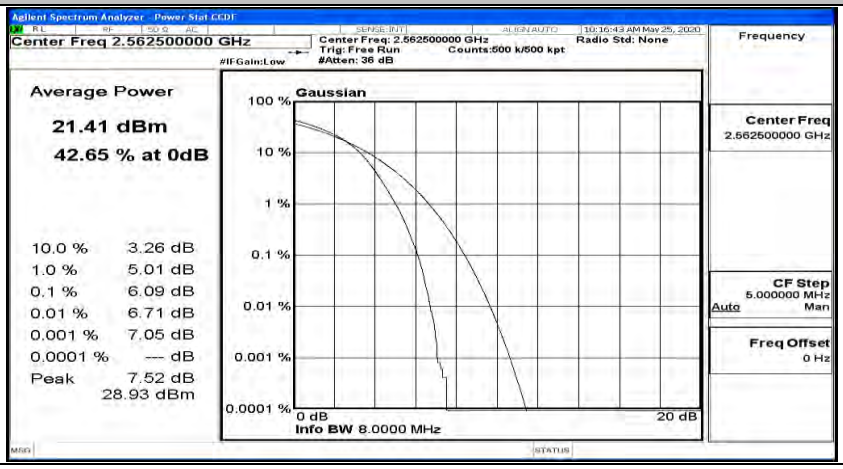
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM




Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM




Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM

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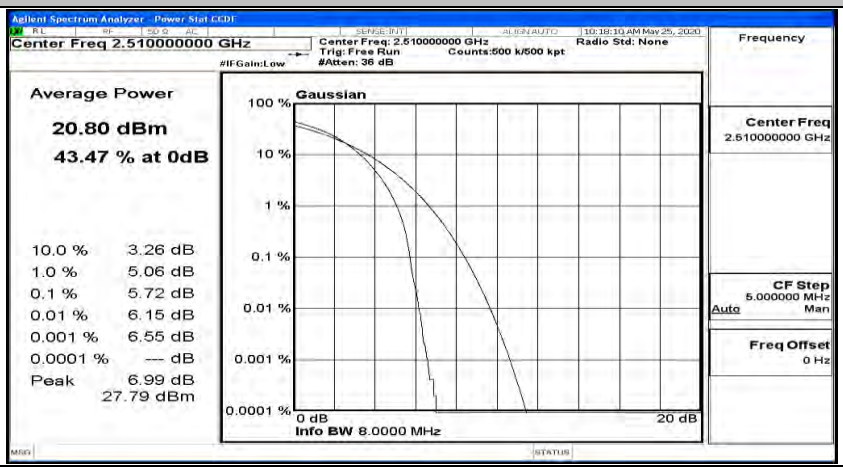
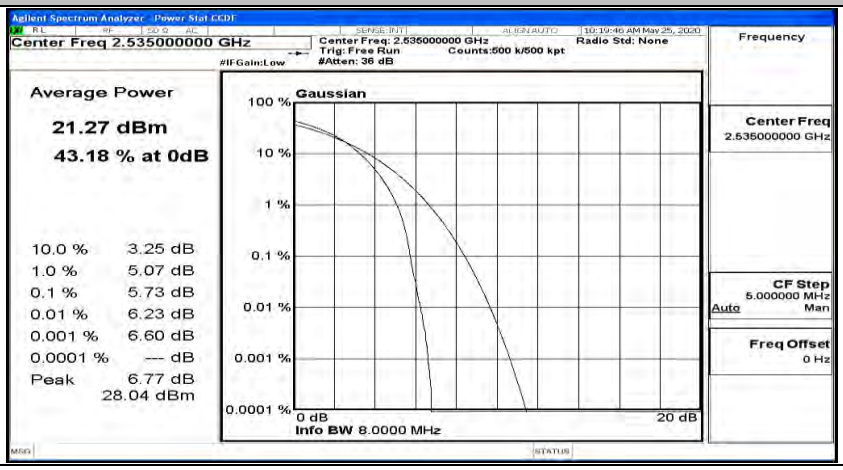
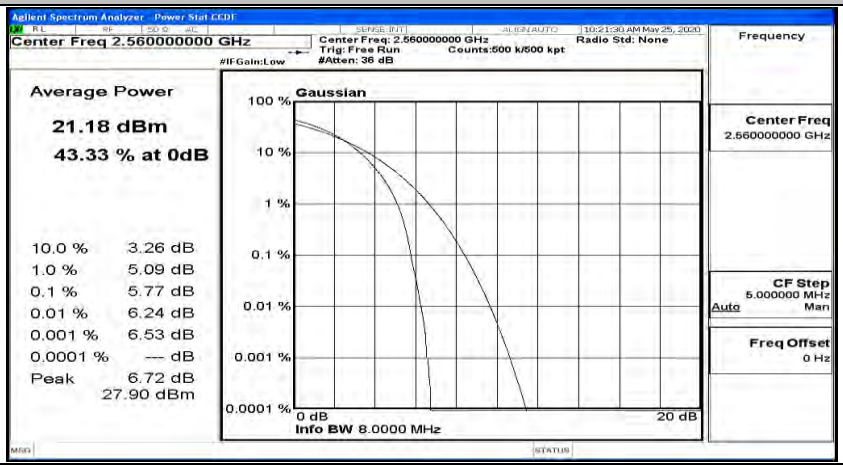
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



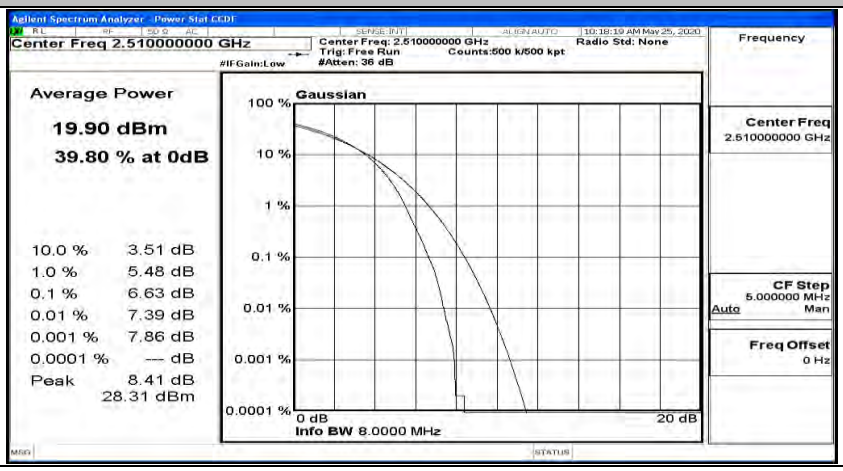

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



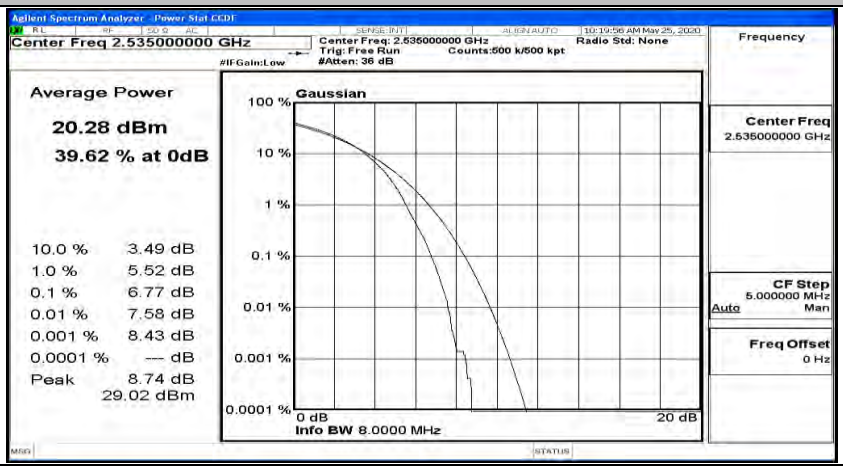

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



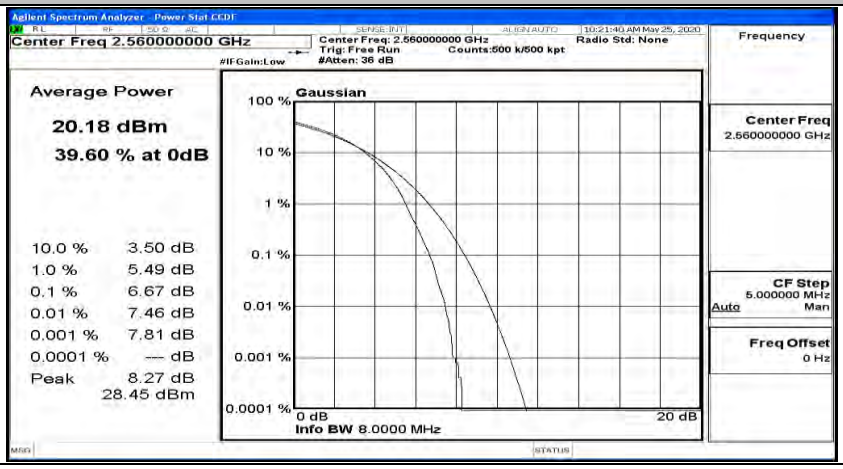
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM




Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM




Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

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## E.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 | 4.4807 | 4.781 | PASS |
| | MCH | 4.4673 | 4.778 | PASS |
| | HCH | 4.4725 | 4.841 | PASS |
| 16QAM | LCH | 4.4591 | 4.823 | PASS |
| | MCH | 4.4793 | 4.779 | PASS |
| | HCH | 4.4793 | 4.815 | PASS |

| EBW & OBW Test Result (Channel Bandwidth: 10 MHz) | | | | |
|---|---|---|---|---|
| Modulation | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| QPSK | LCH | 8.9207 | 9.412 | PASS |
| | MCH | 8.9351 | 9.499 | PASS |
| | HCH | 8.9220 | 9.497 | PASS |
| 16QAM | LCH | 8.9204 | 9.428 | PASS |
| | MCH | 8.9249 | 9.416 | PASS |
| | HCH | 8.9322 | 9.449 | PASS |

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| EBW & OBW Test Result (Channel Bandwidth: 15 MHz) | | | | |
|---|---|---|---|---|
| Modulation | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| QPSK | LCH | 13.369 | 13.97 | PASS |
| | MCH | 13.392 | 14.13 | PASS |
| | HCH | 13.368 | 13.95 | PASS |
| 16QAM | LCH | 13.370 | 13.98 | PASS |
| | MCH | 13.388 | 14.00 | PASS |
| | HCH | 13.366 | 13.97 | PASS |

| EBW & OBW Test Result (Channel Bandwidth: 20 MHz) | | | | |
|---|---|---|---|---|
| Modulation | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
| QPSK | LCH | 17.800 | 18.55 | PASS |
| | MCH | 17.861 | 18.65 | PASS |
| | HCH | 17.823 | 18.57 | PASS |
| 16QAM | LCH | 17.820 | 18.54 | PASS |
| | MCH | 17.844 | 18.62 | PASS |
| | HCH | 17.818 | 18.55 | PASS |

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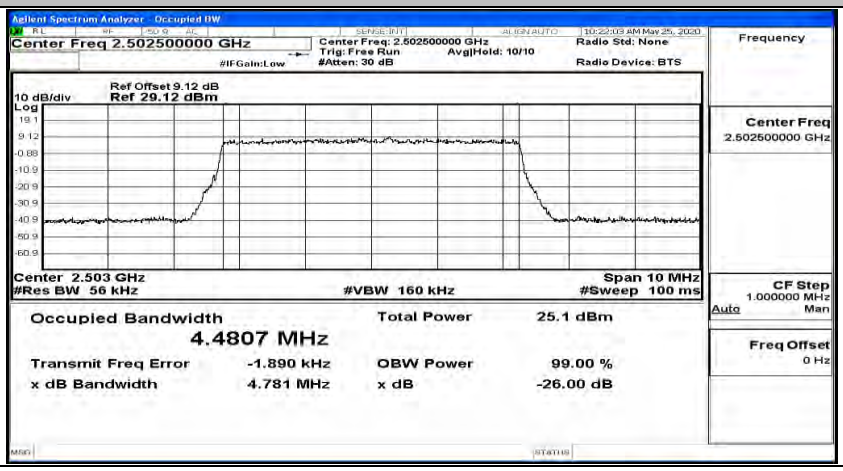
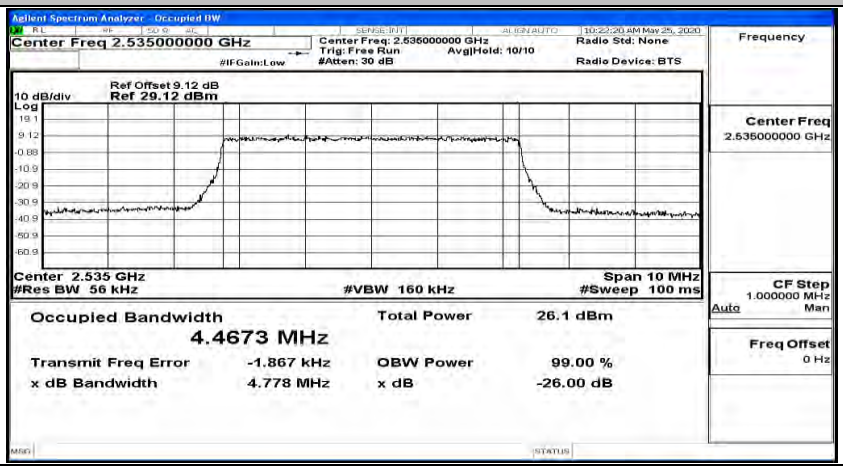
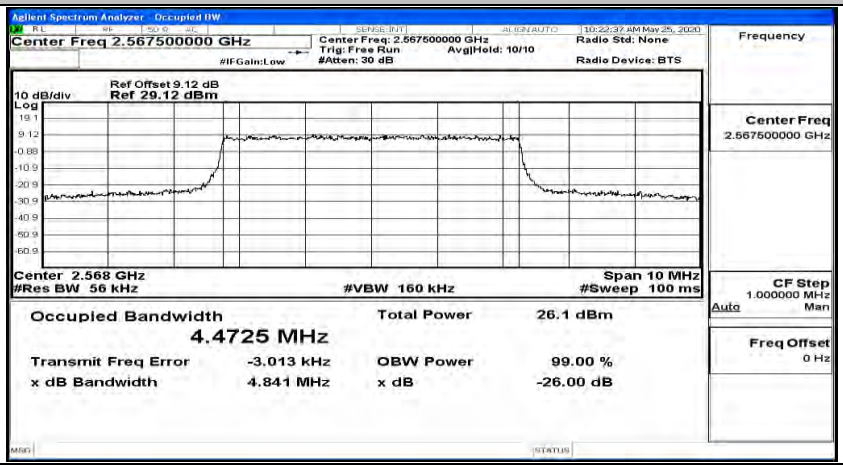
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK




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




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

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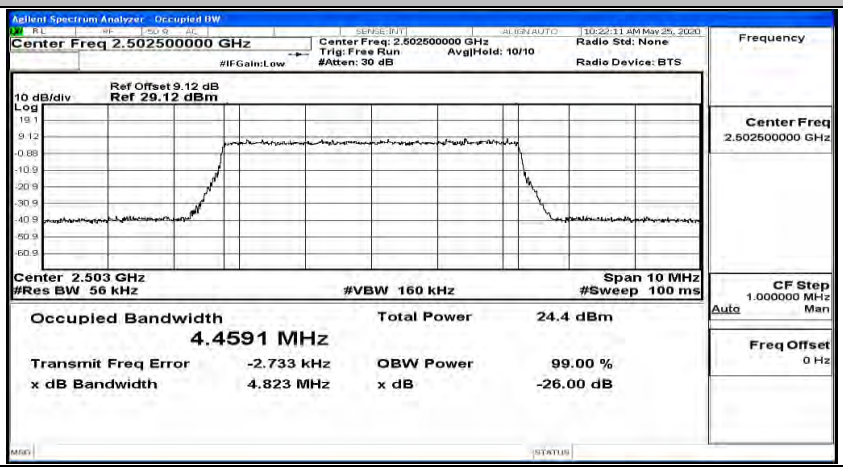
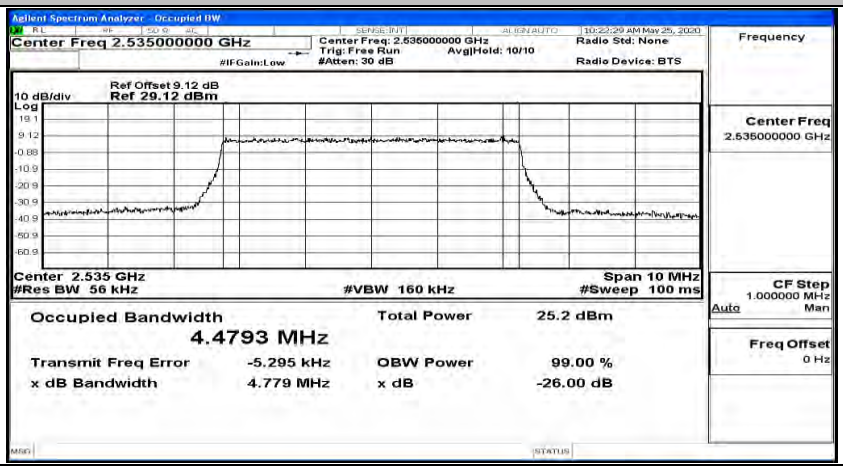
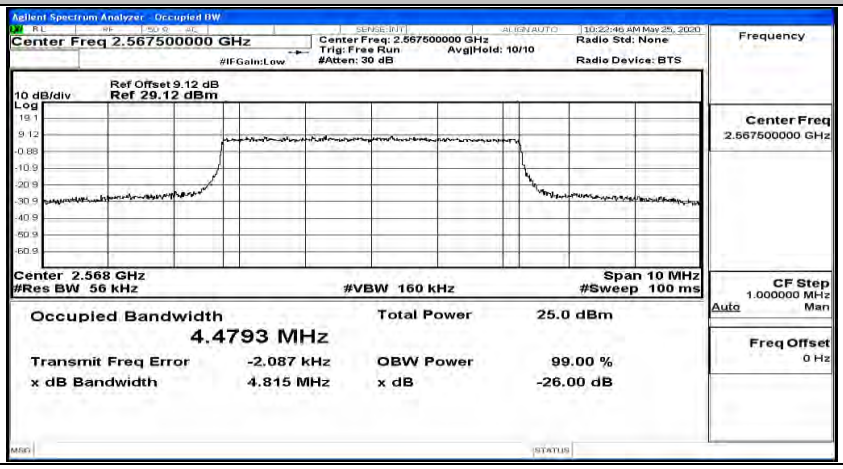
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



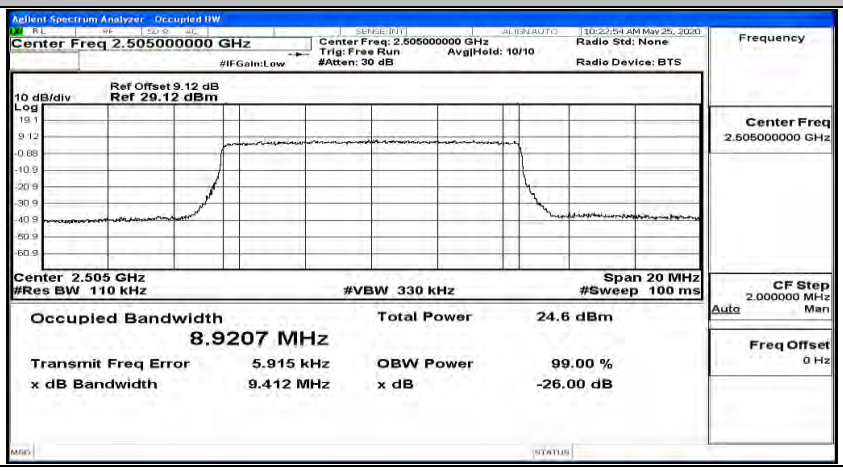

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



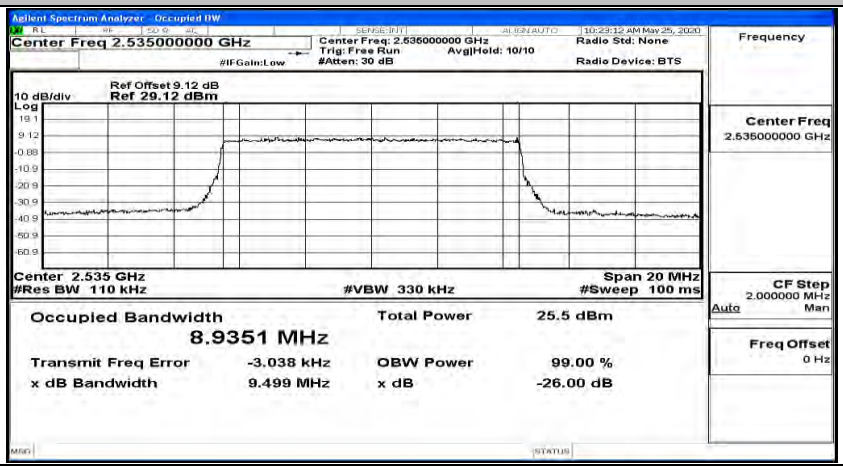

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



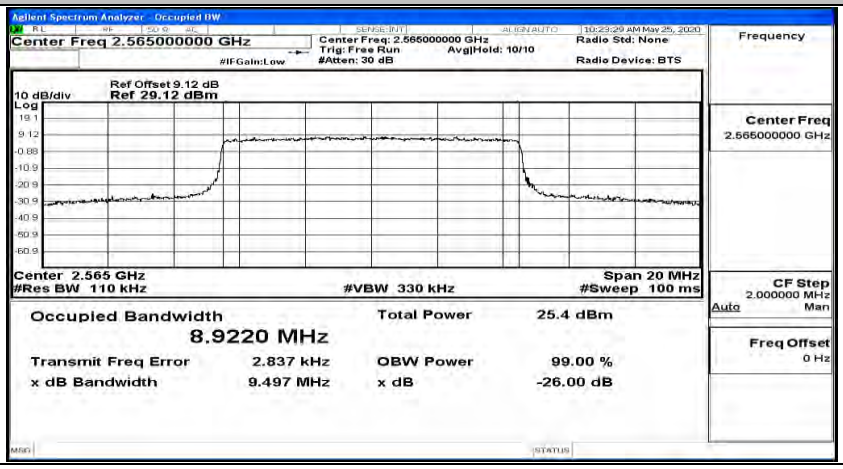
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



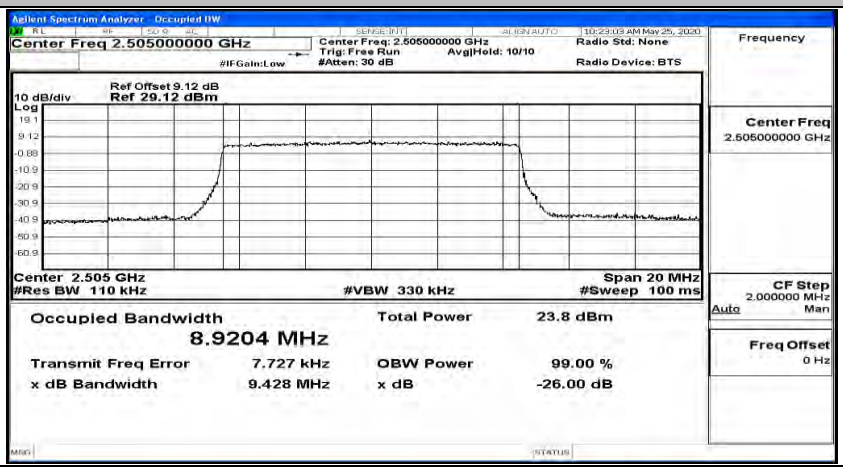

EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



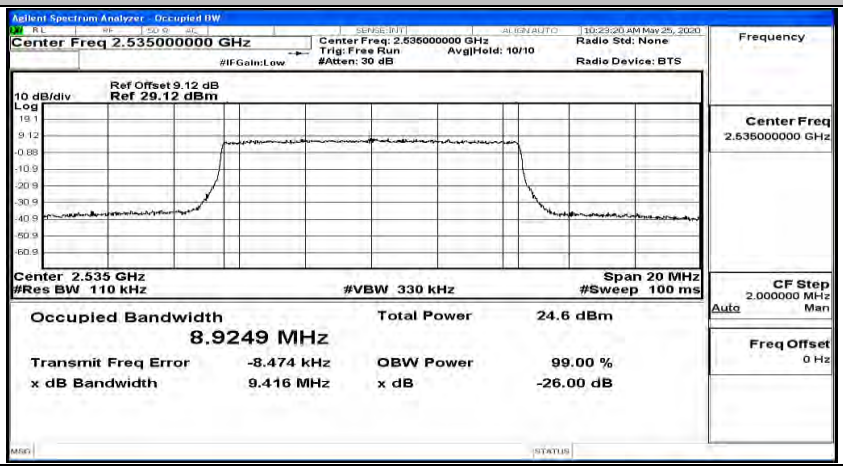

EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



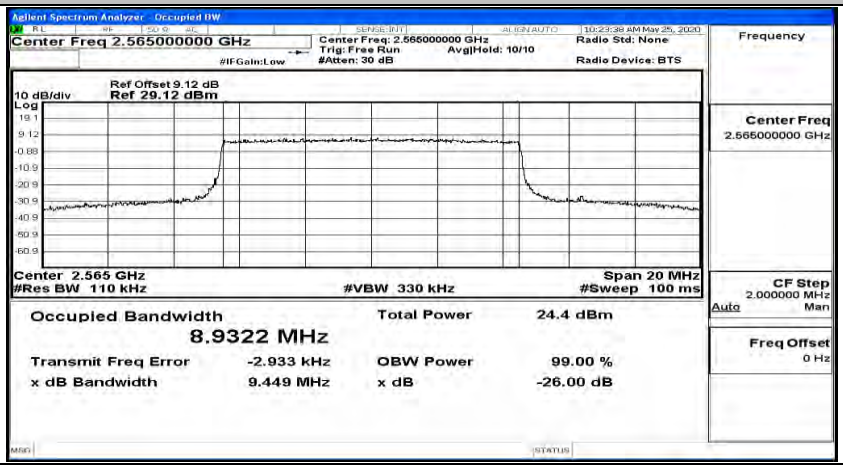
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



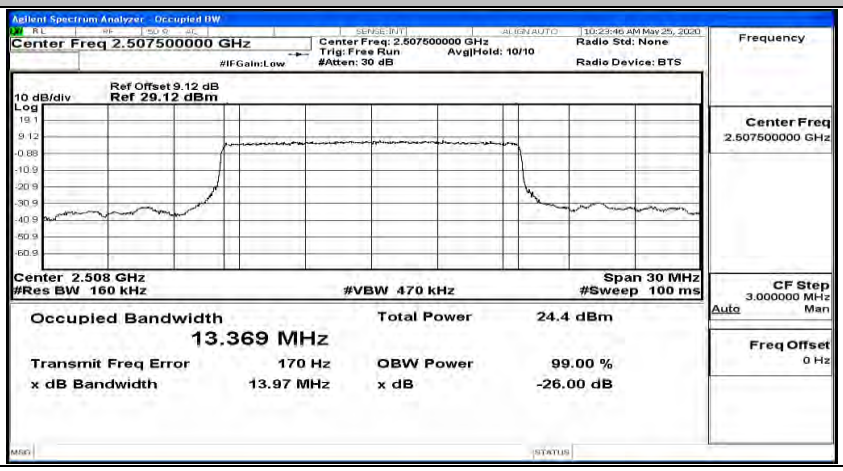

EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



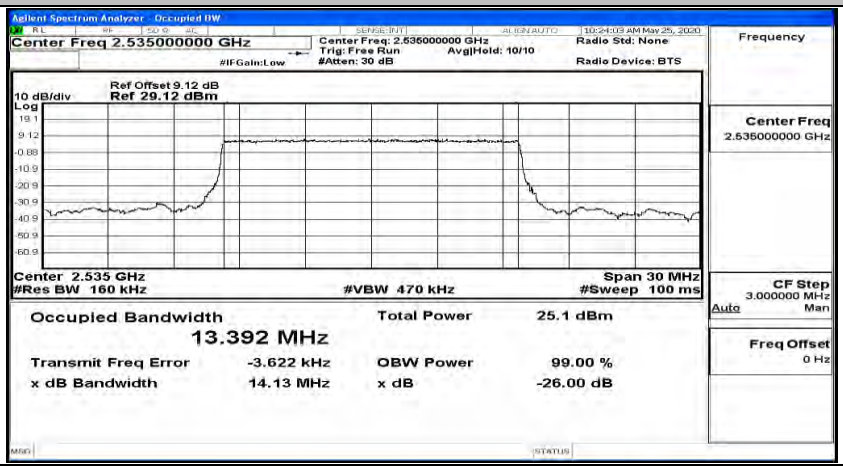

EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



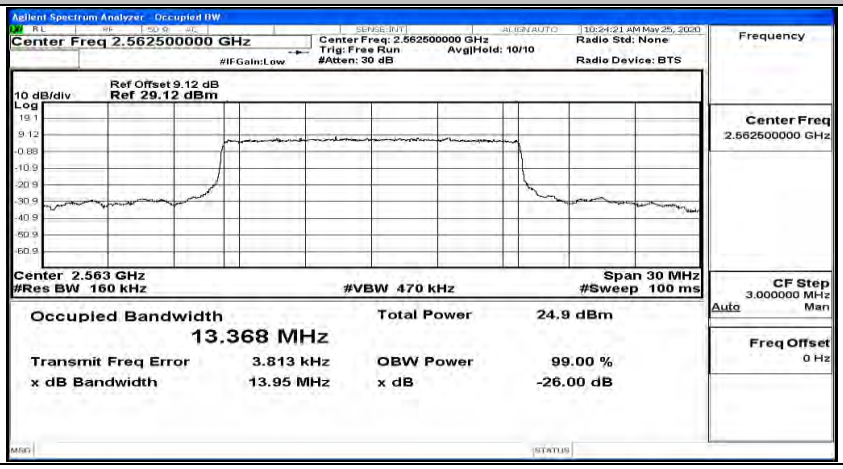
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



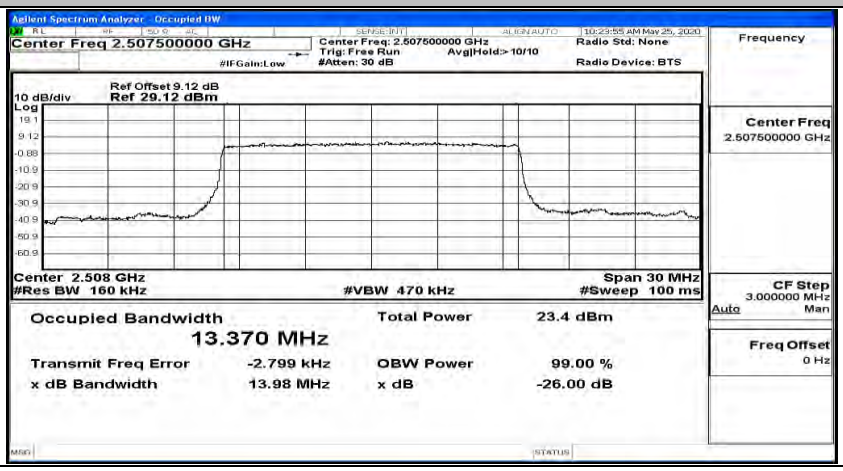

EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



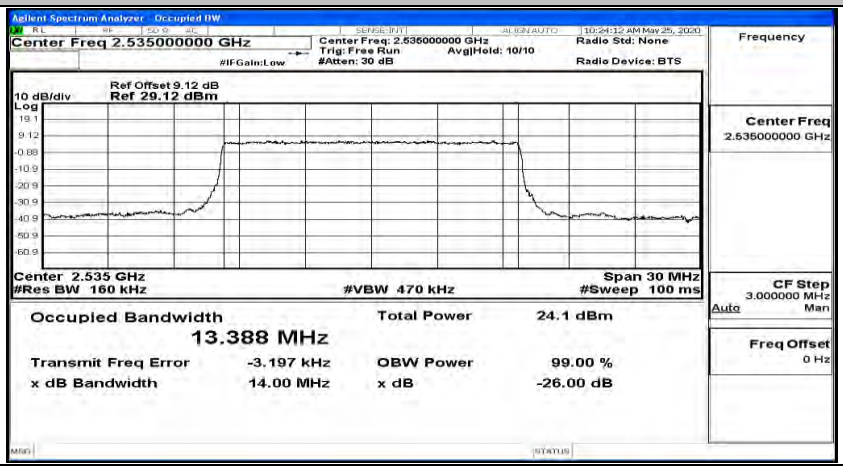

EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



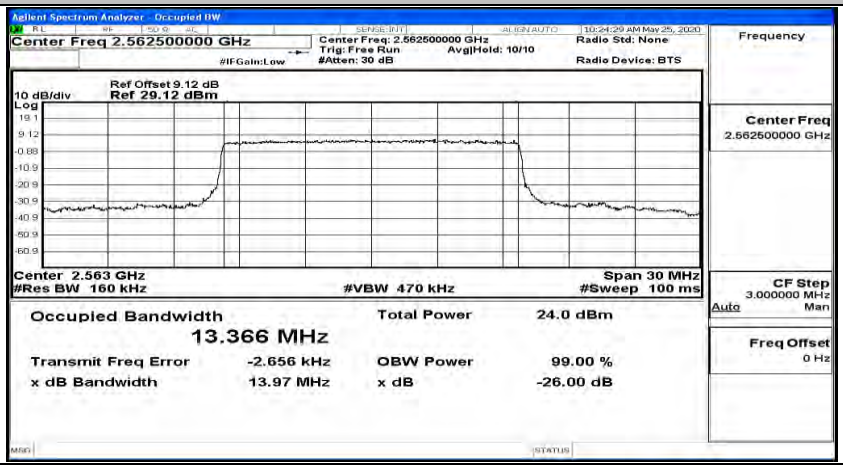
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



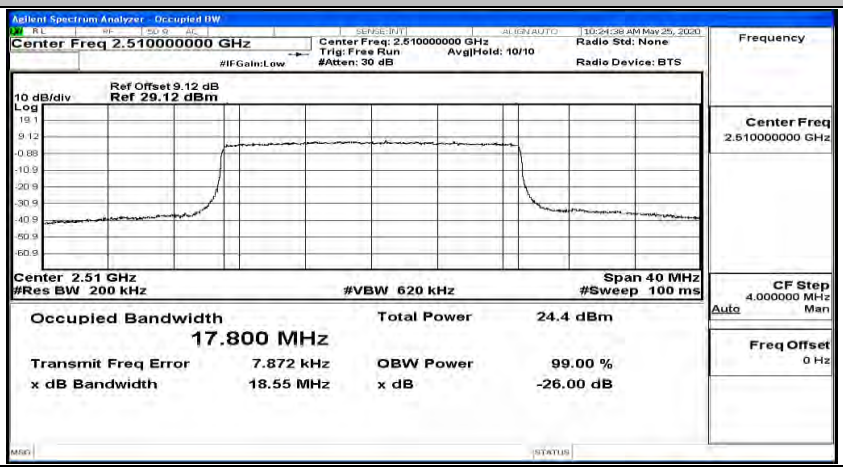

EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



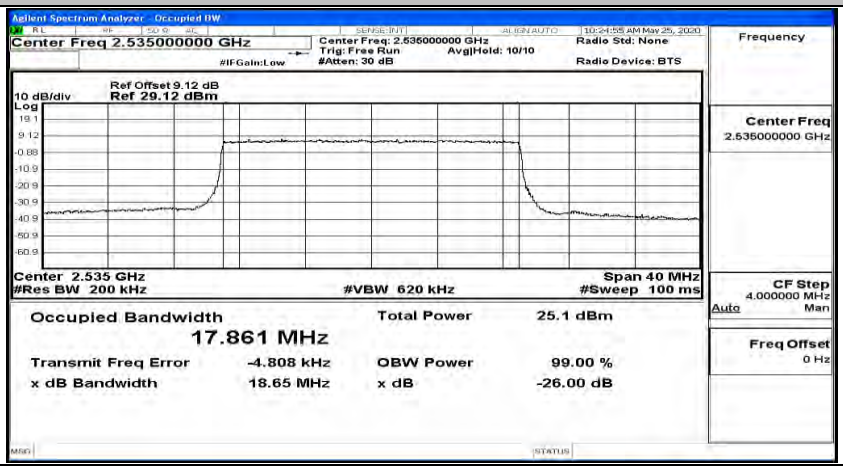

EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



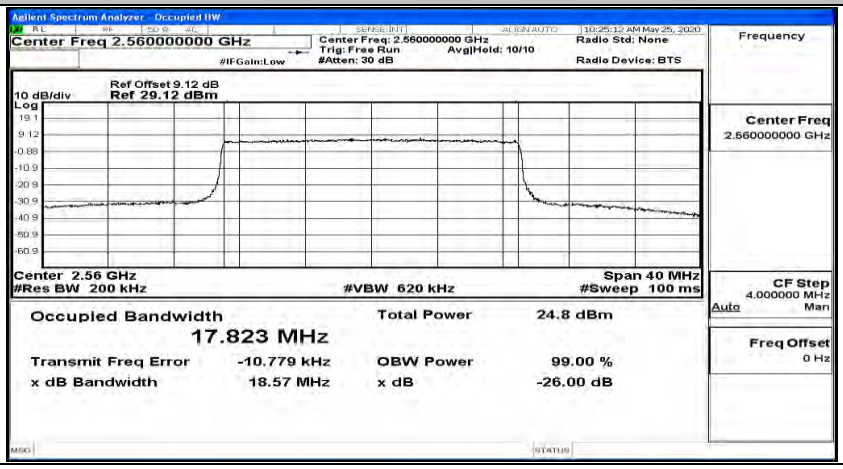
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



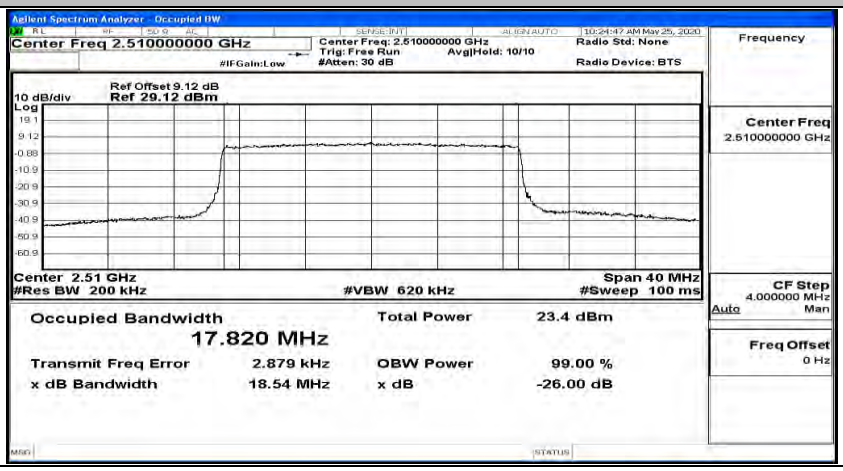

EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



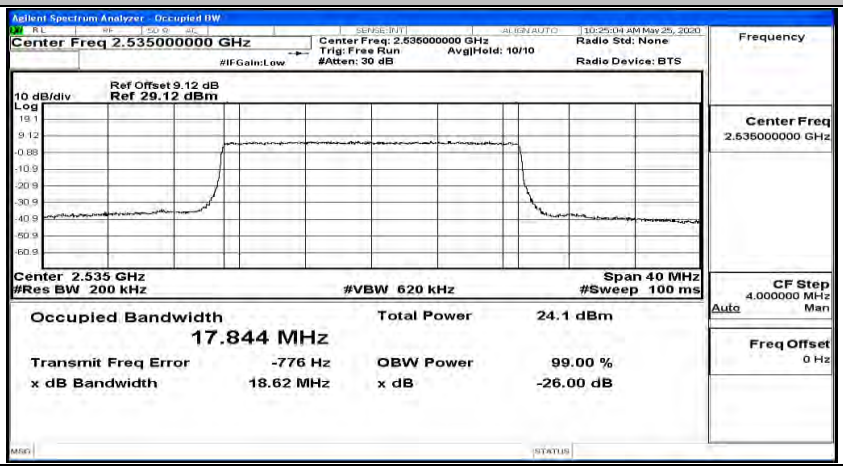

EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



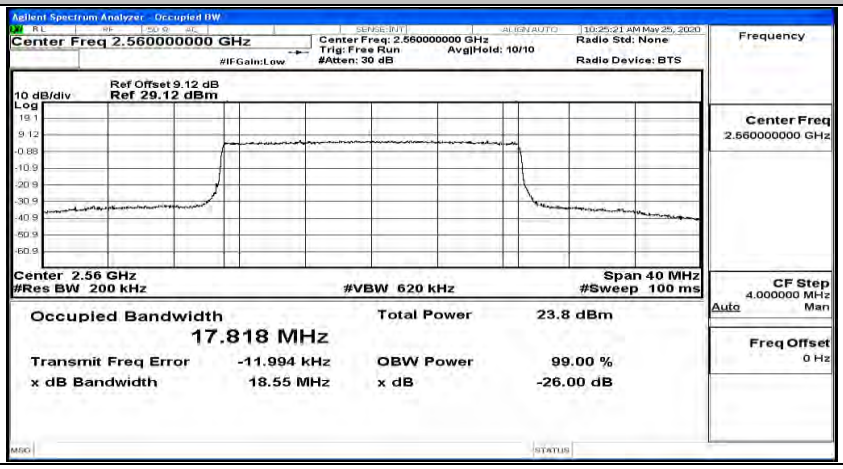
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM




EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM




EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

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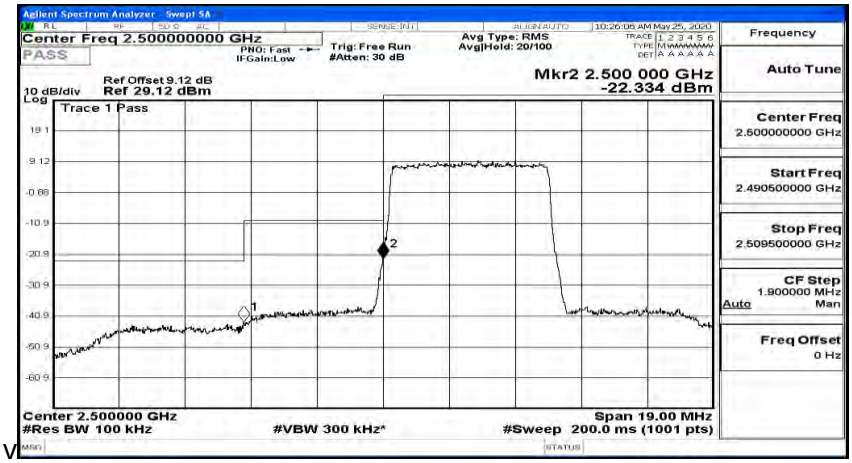
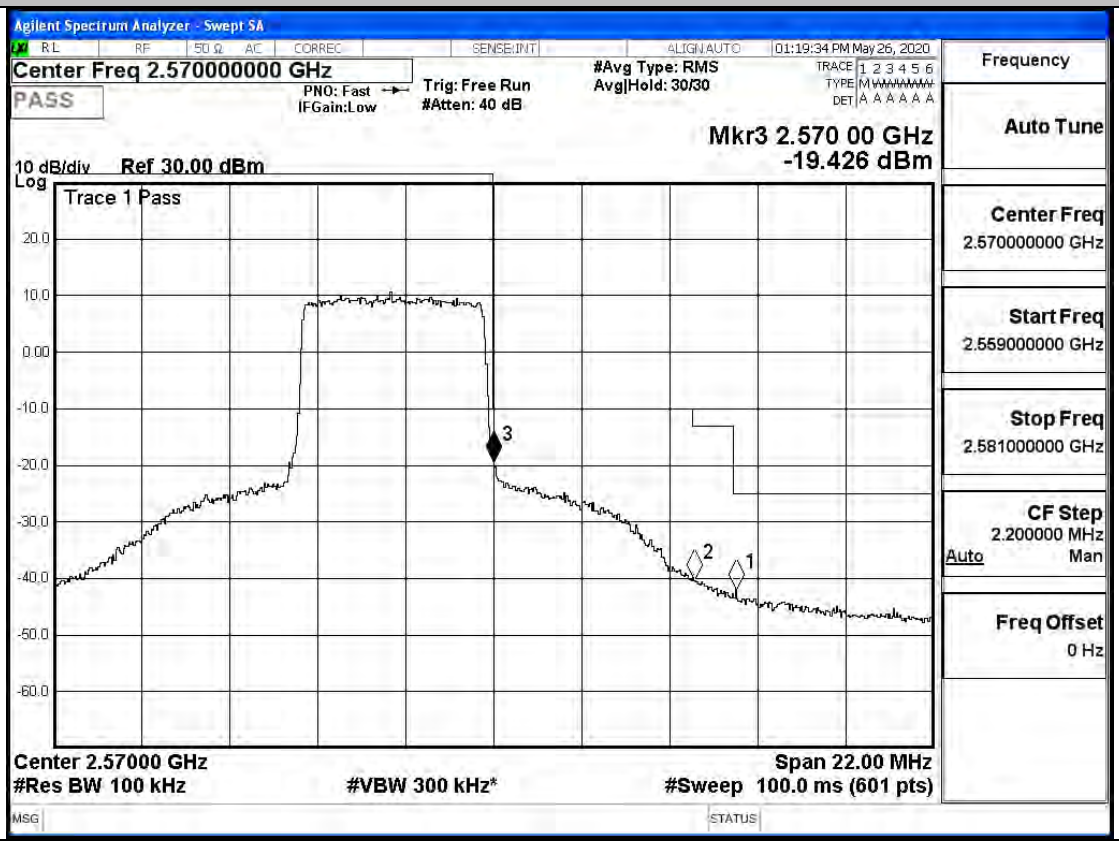
## E.4 Band Edge

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

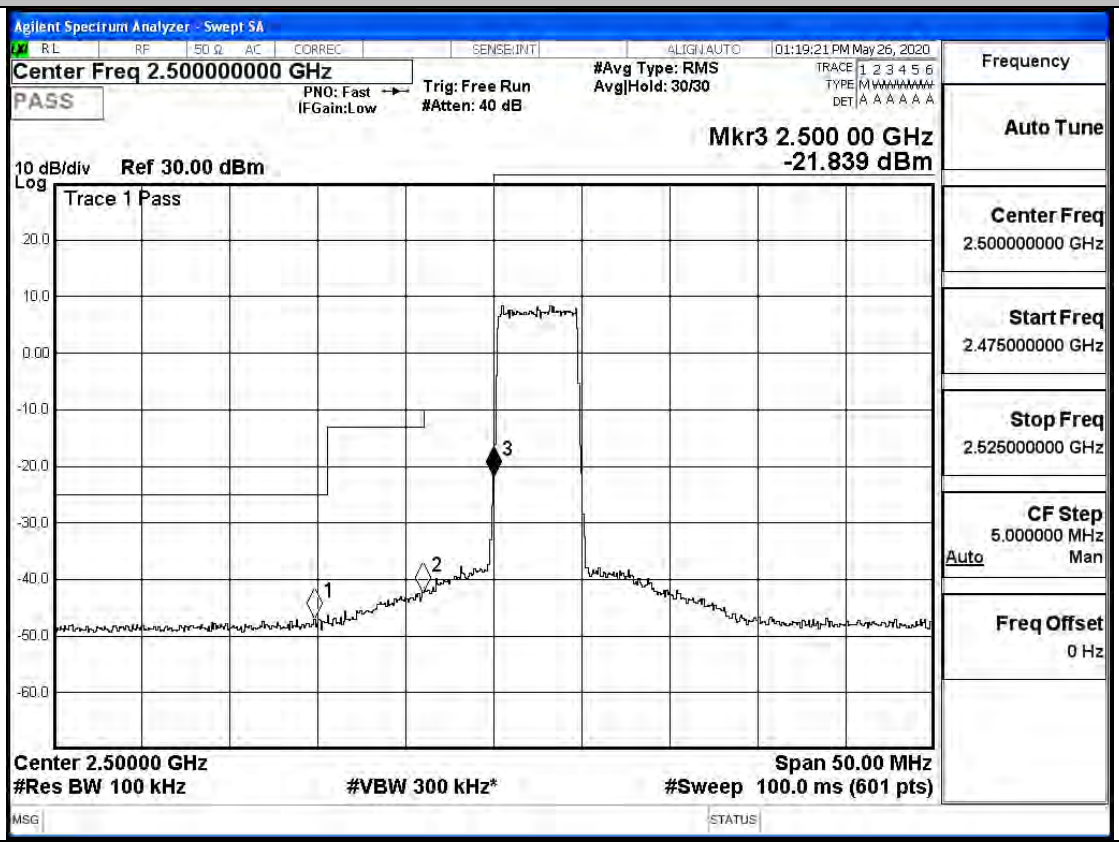



V

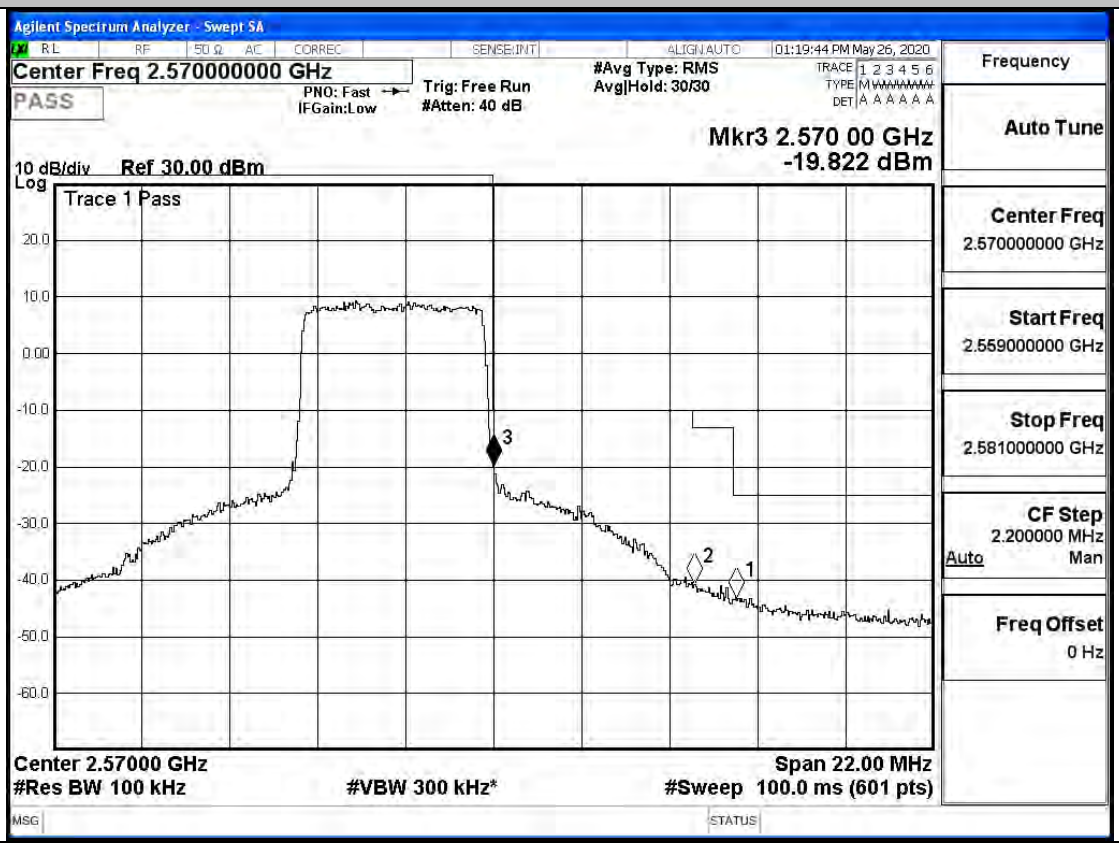
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



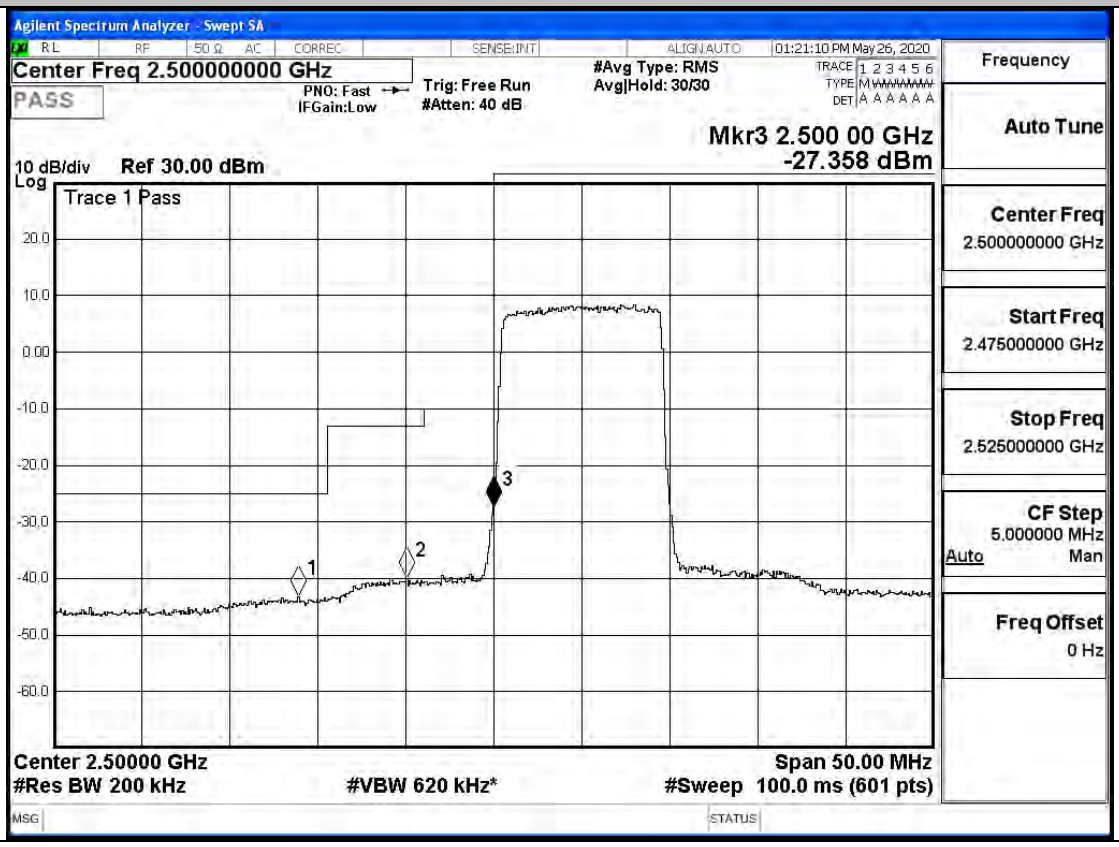

Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



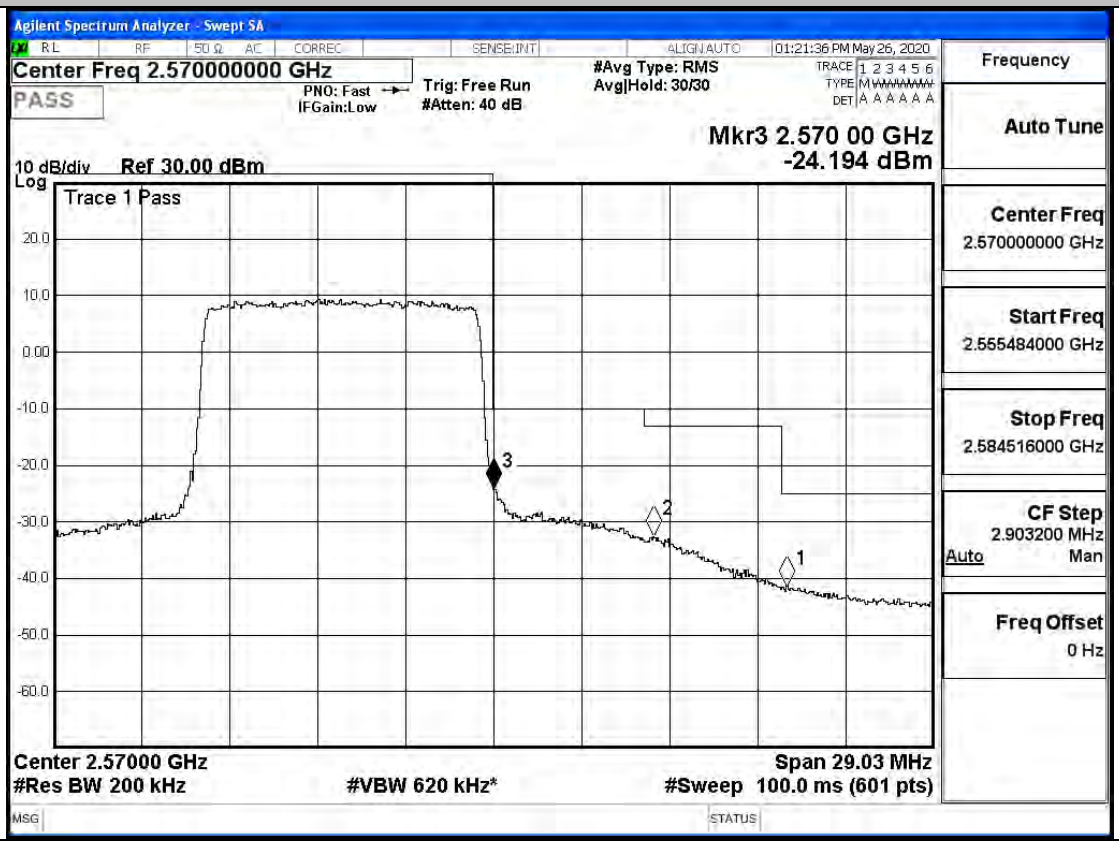
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



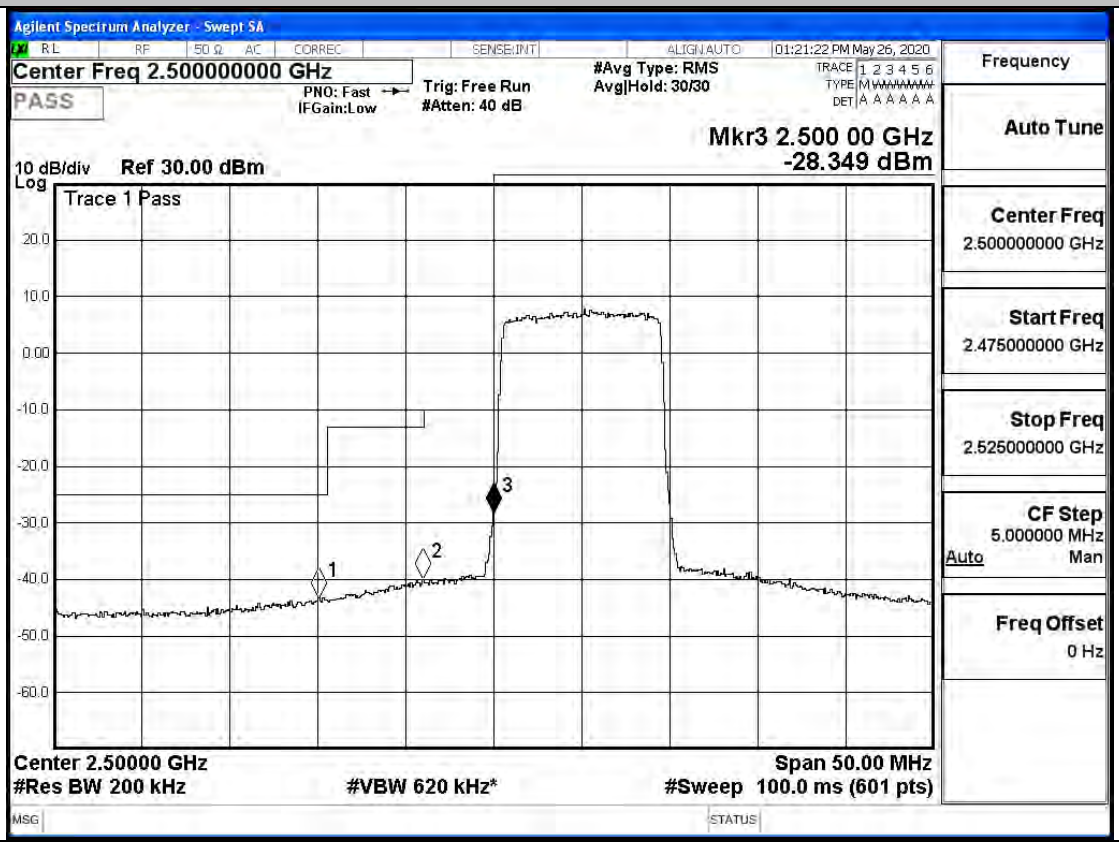

Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



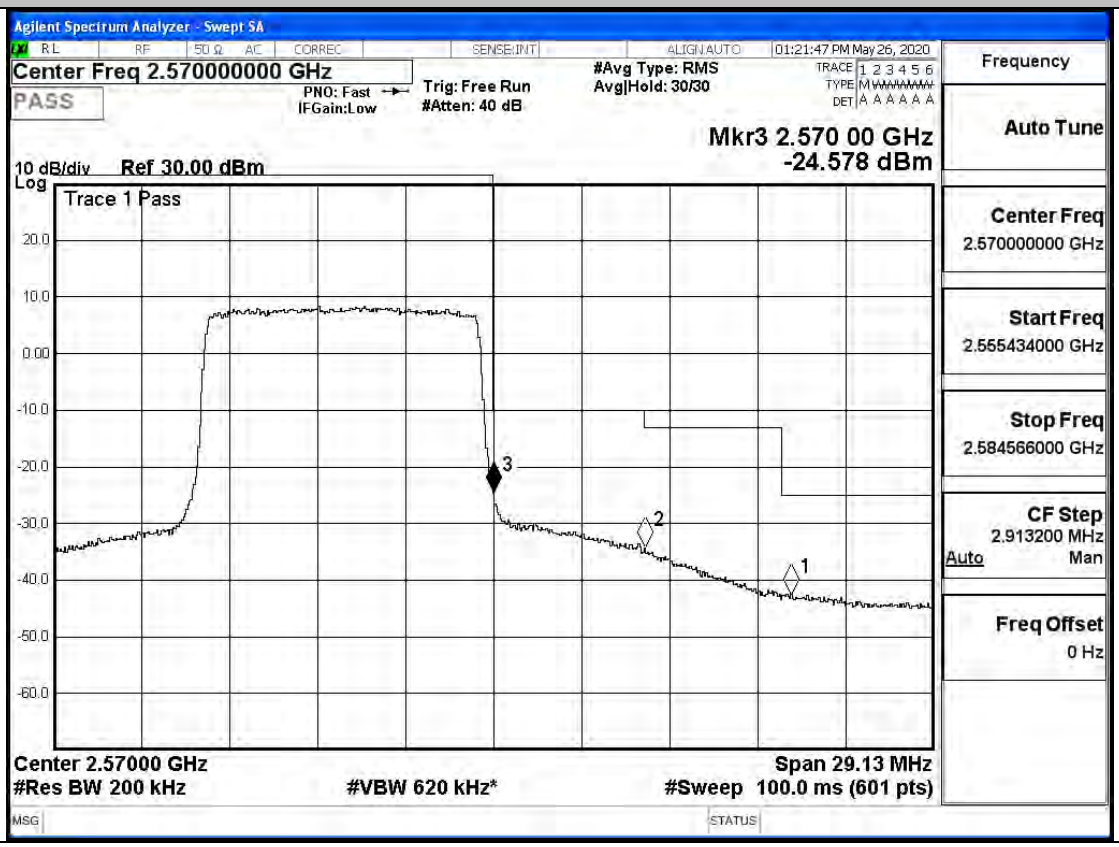
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



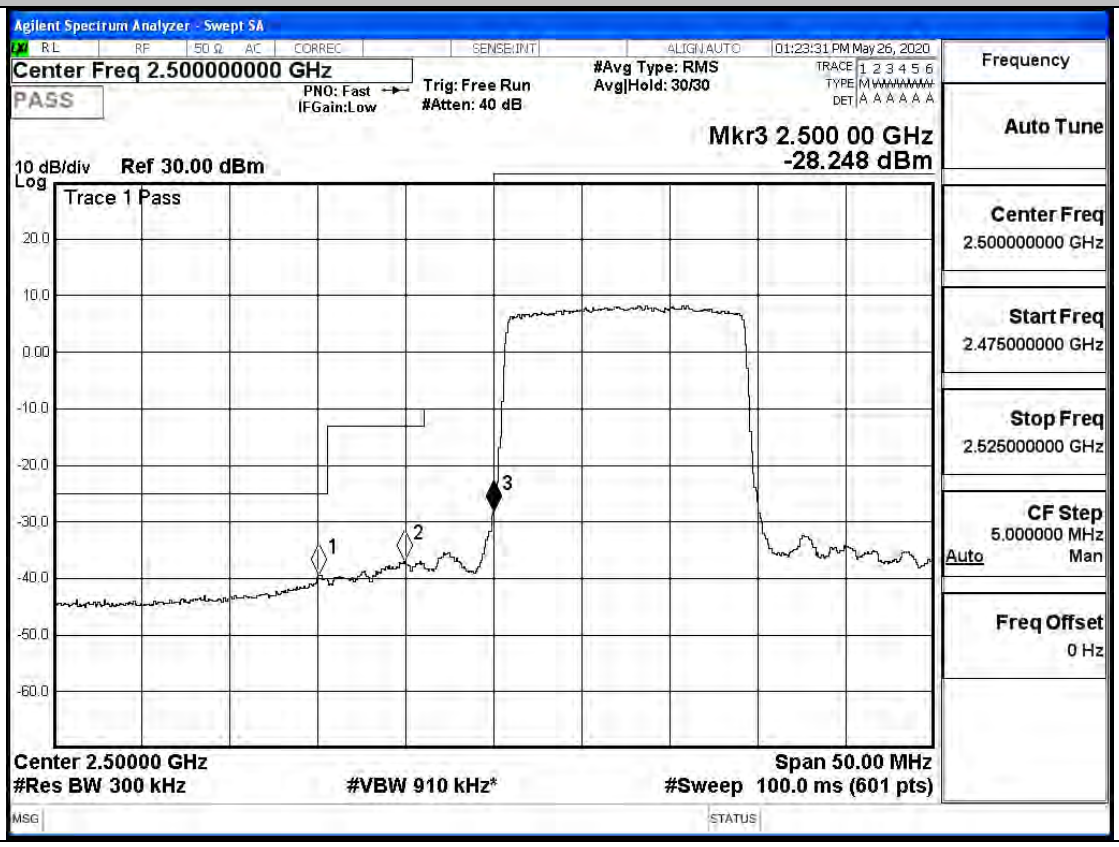

Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



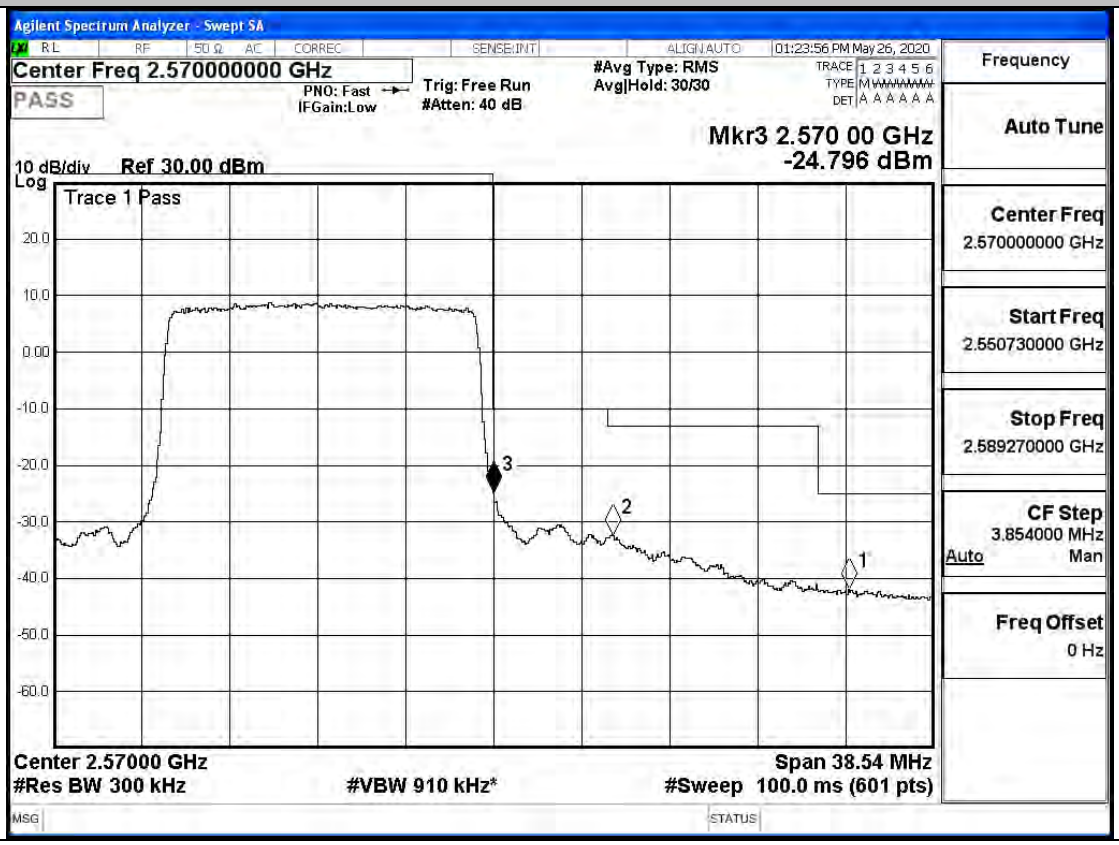
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



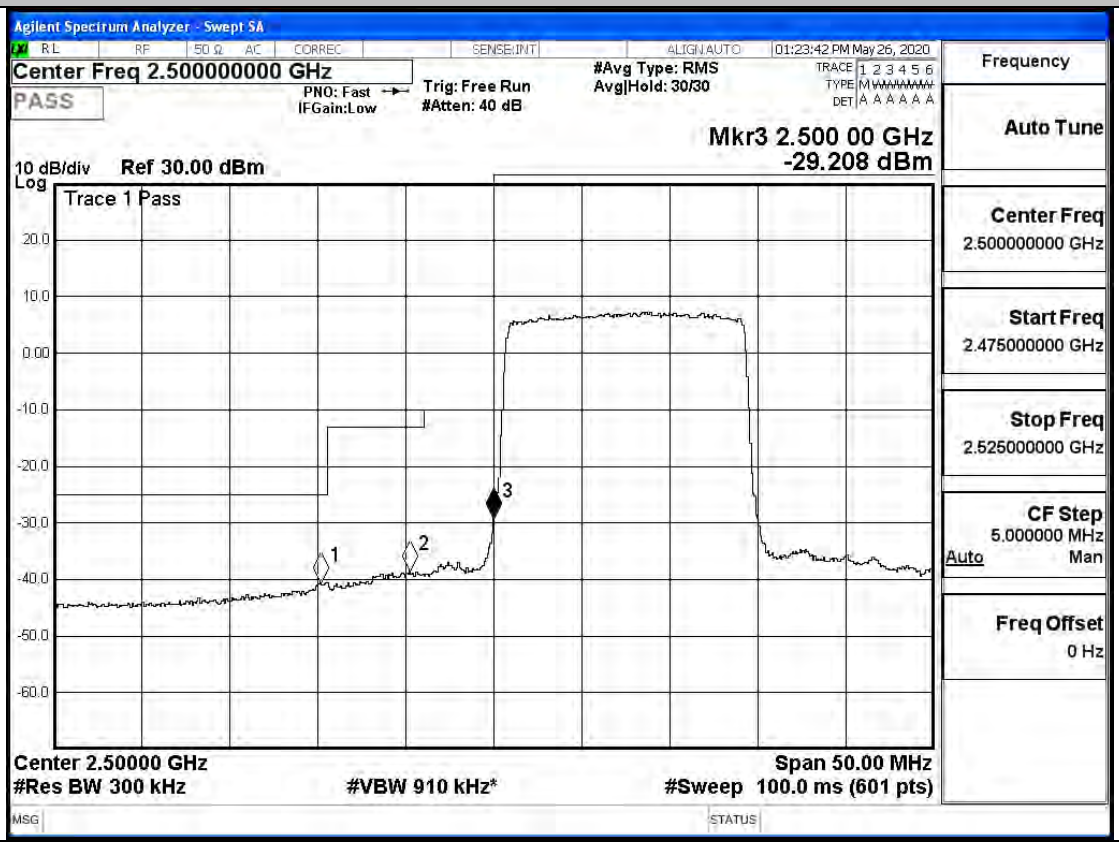

Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



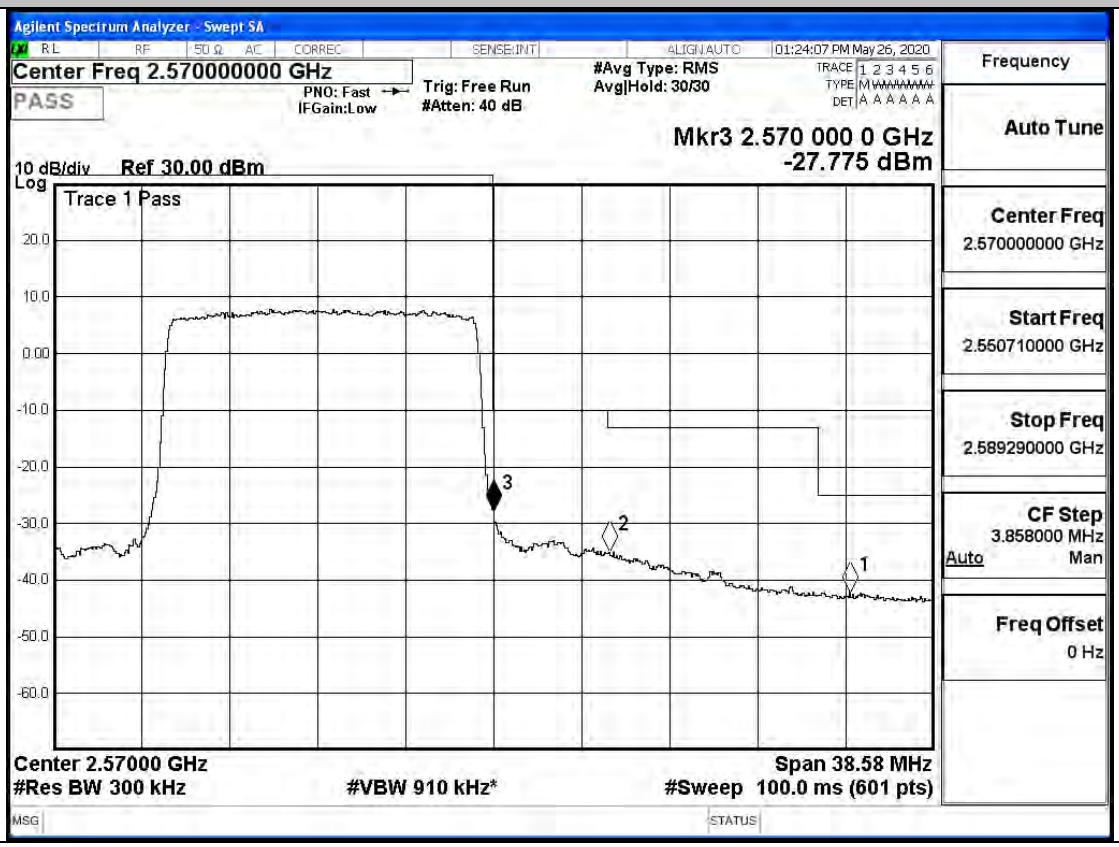
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



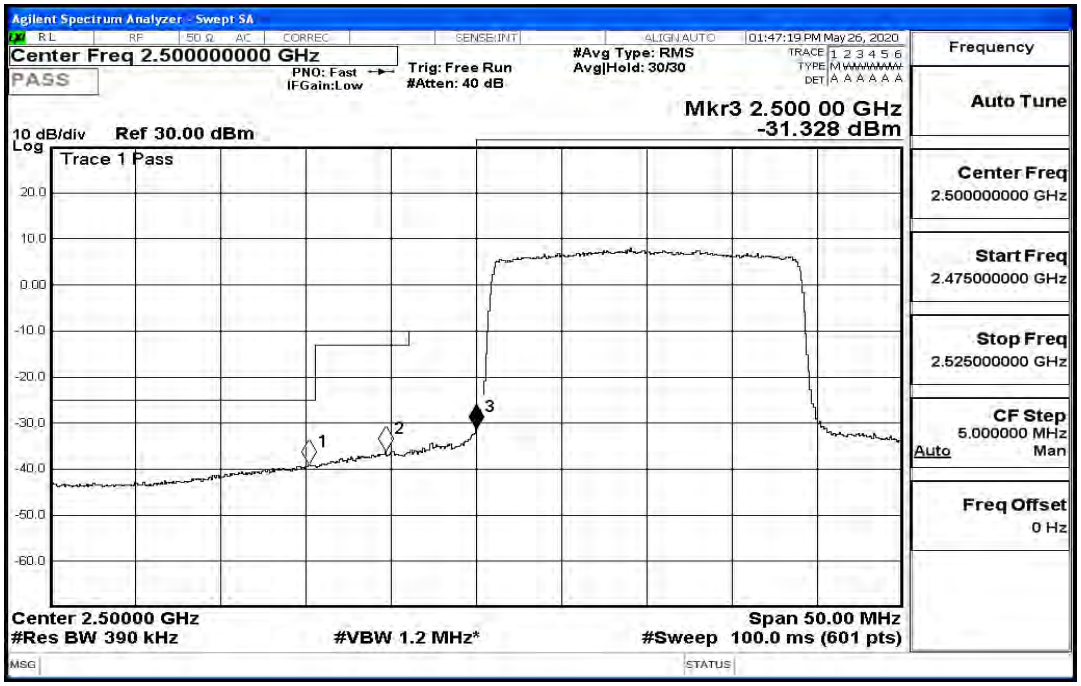

Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



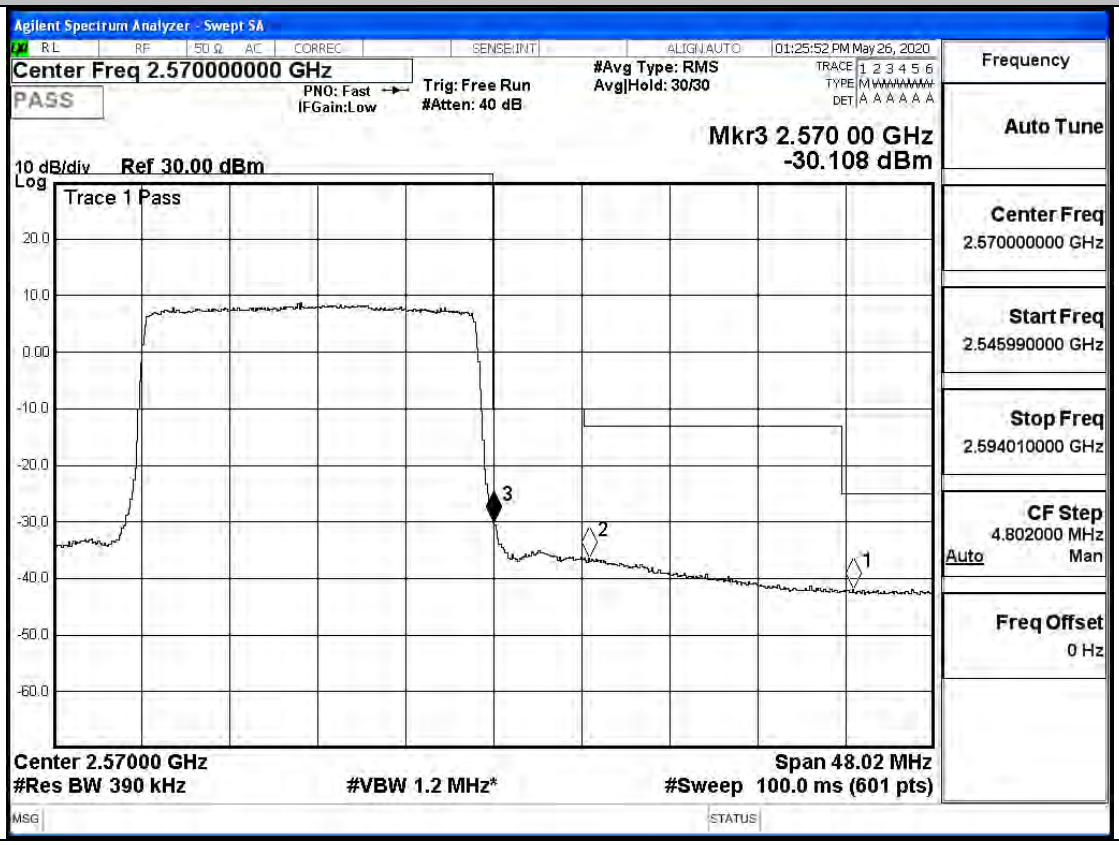
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



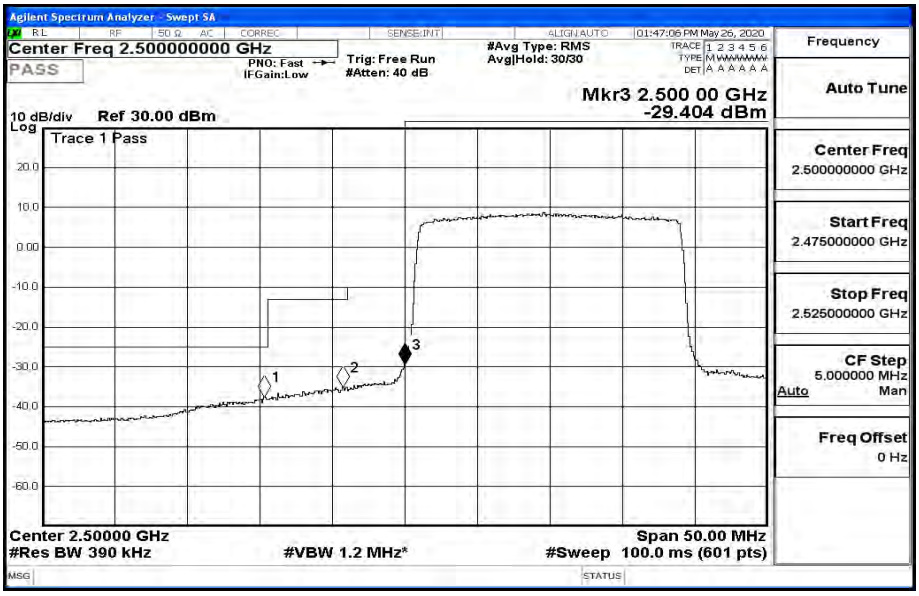
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



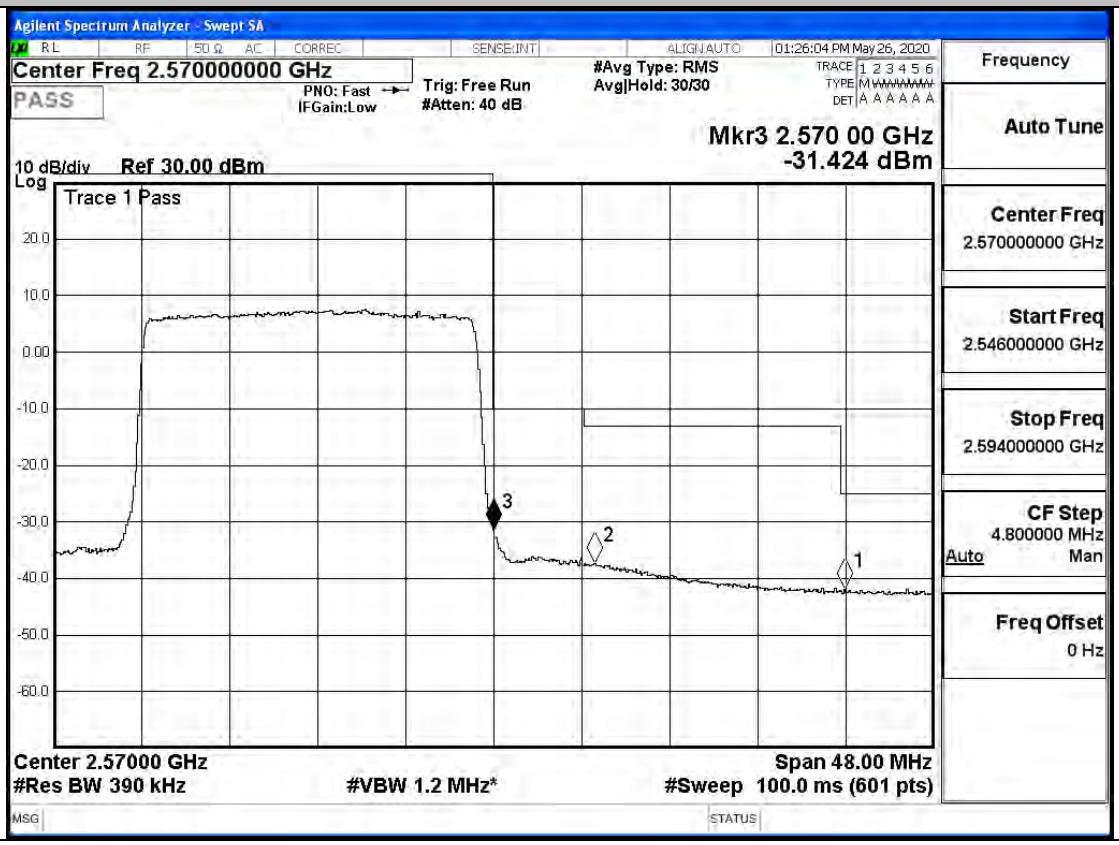

Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK




Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 30/30
01:47:06 PM May 26, 2020
PASS
Mkr3 2.500 00 GHz
-29.404 dBm
10 dB/div
Log
Ref 30.00 dBm
Trace 1 Pass
Center 2.50000 GHz
#Res BW 390 kHz
#VBW 1.2 MHz*
Span 50.00 MHz
#Sweep 100.0 ms (601 pts)
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
2.475000000 GHz
Stop Freq
2.525000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

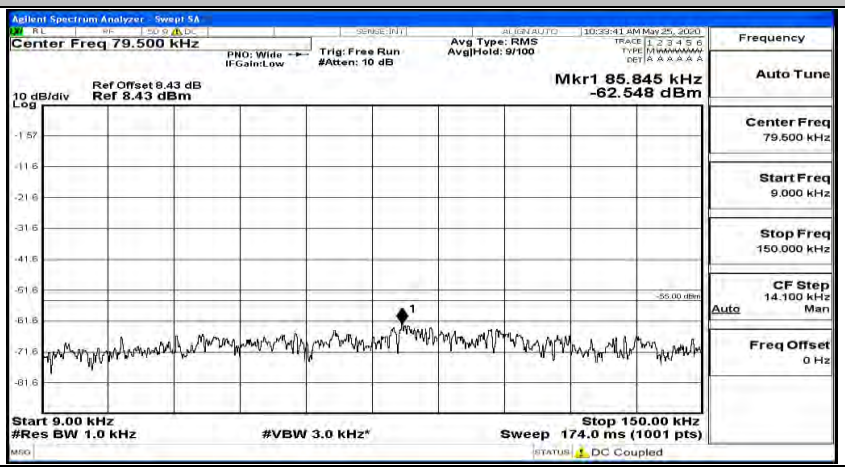
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

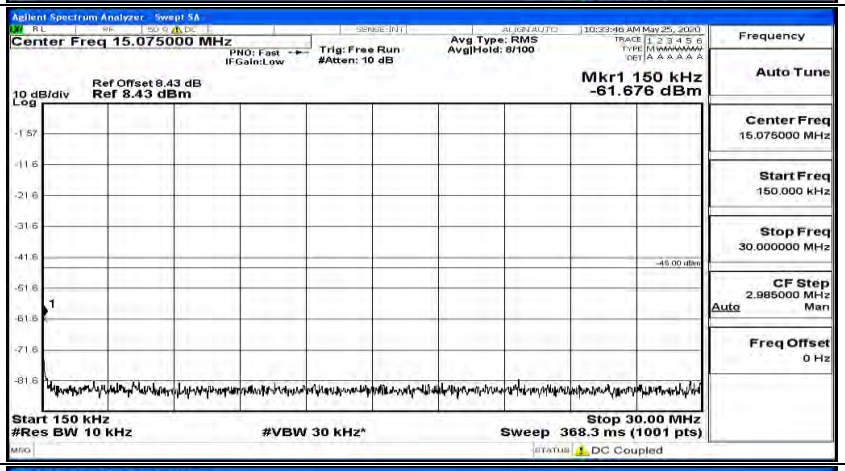


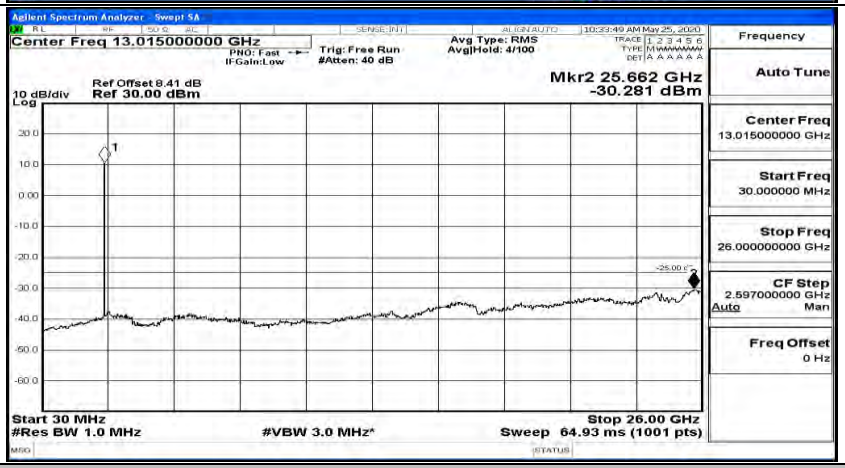
## E.5 Conducted Spurious Emission

## Channel Bandwidth: 5 MHz

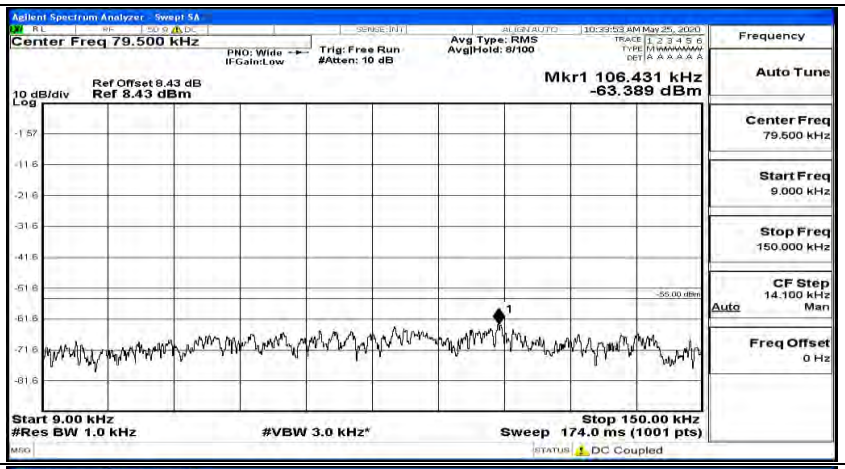
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

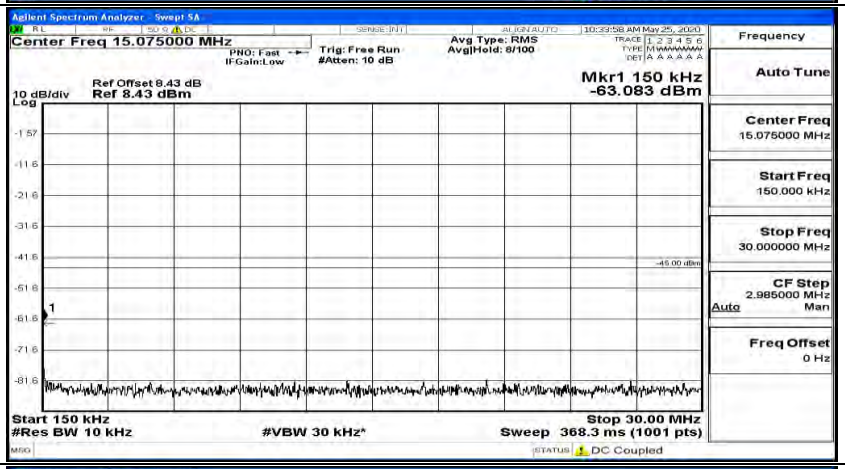


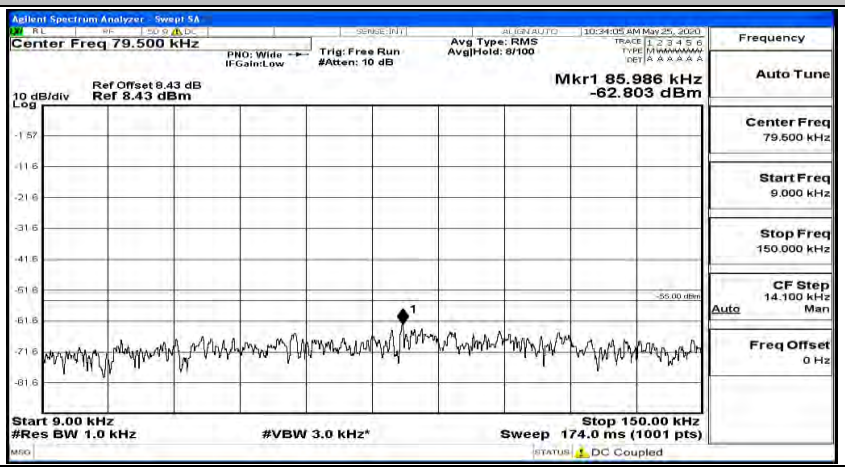



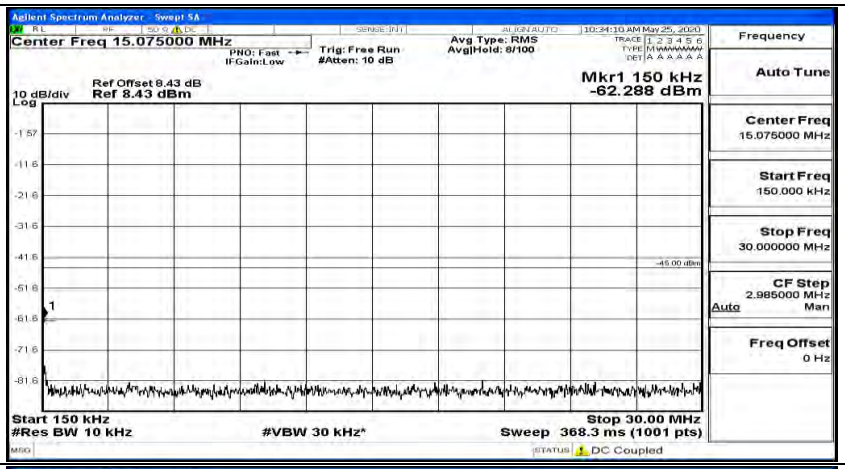

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



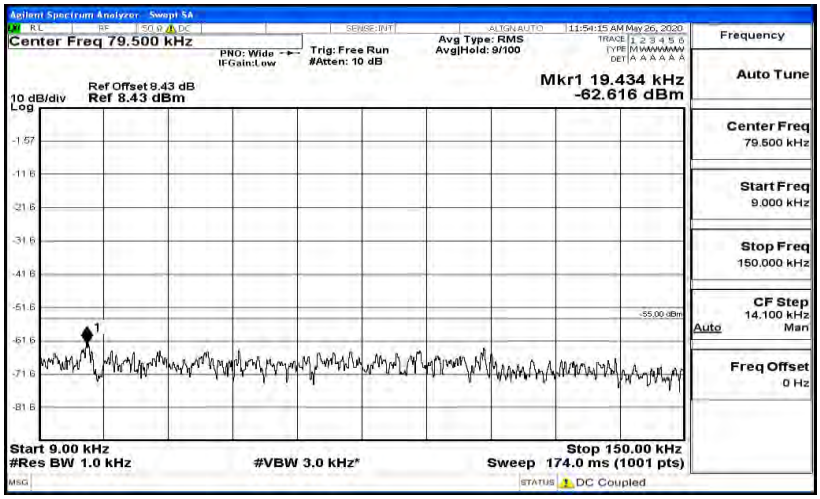



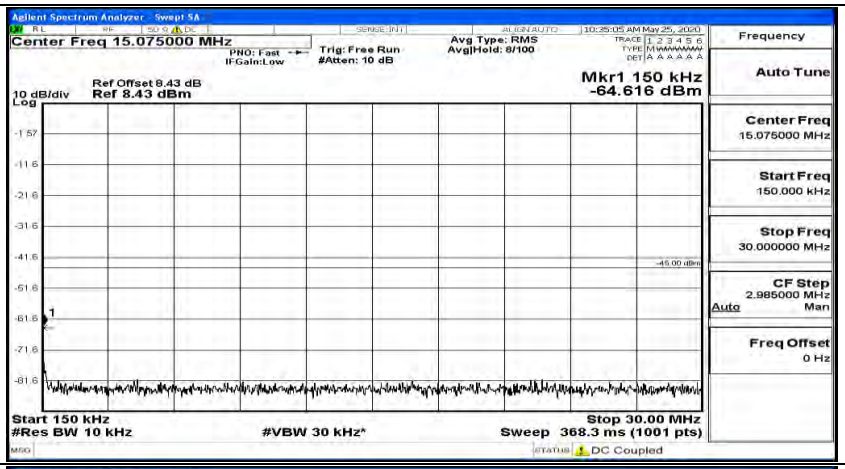
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



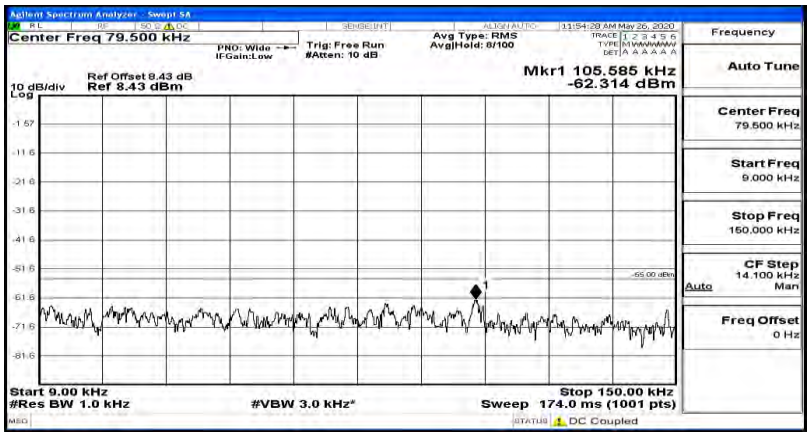


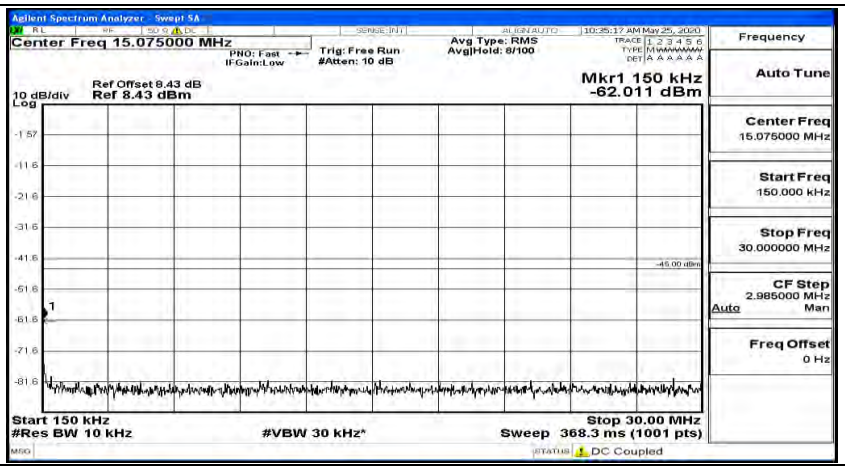
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

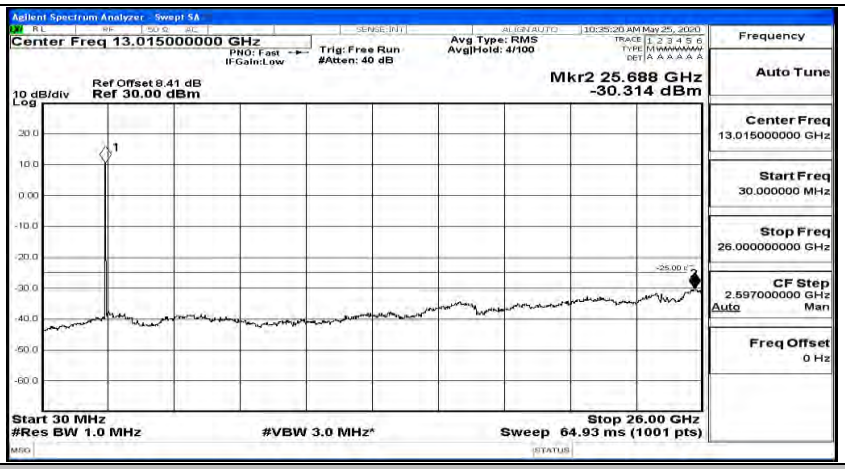




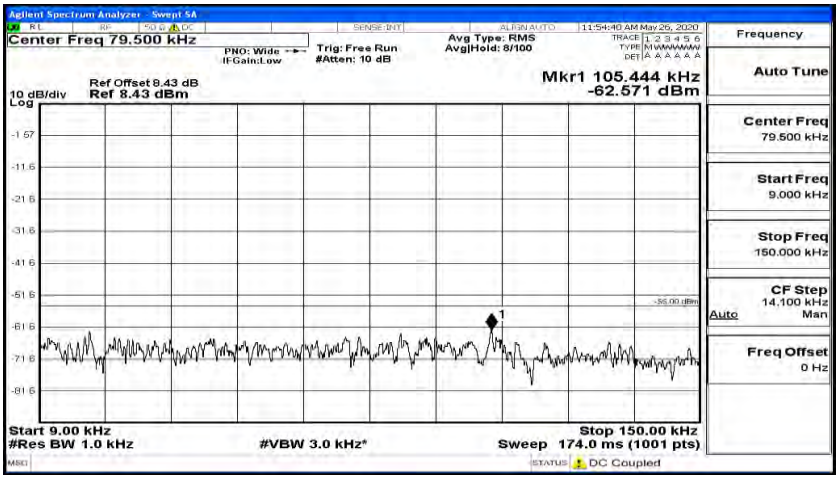
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

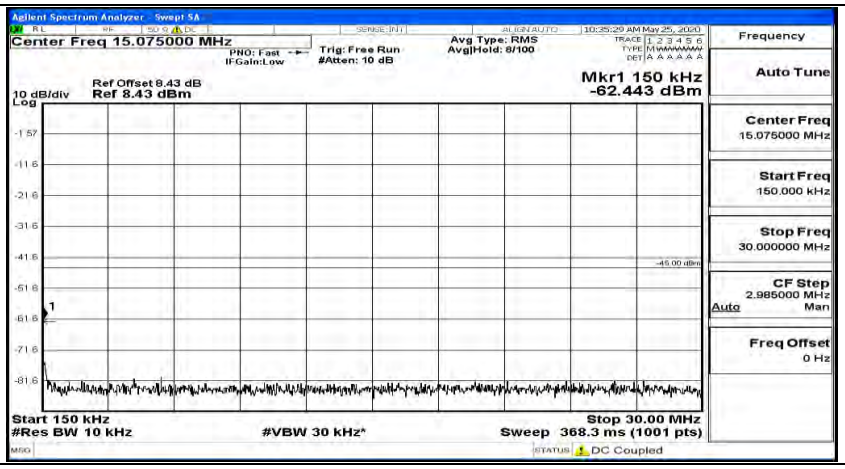


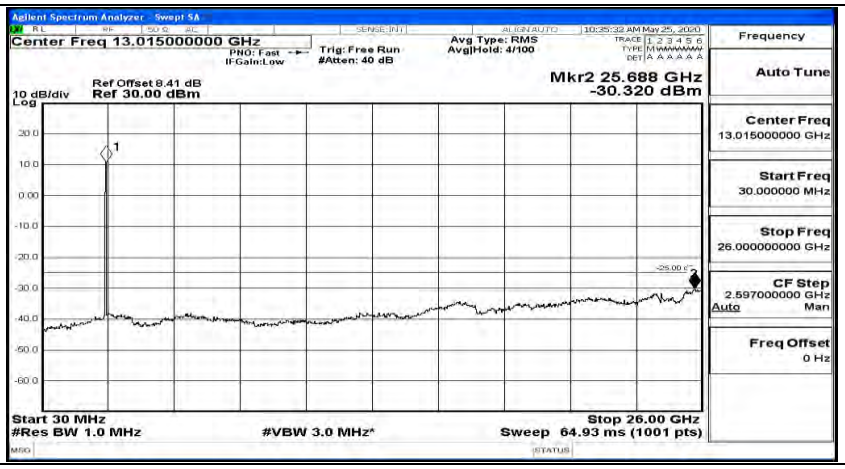





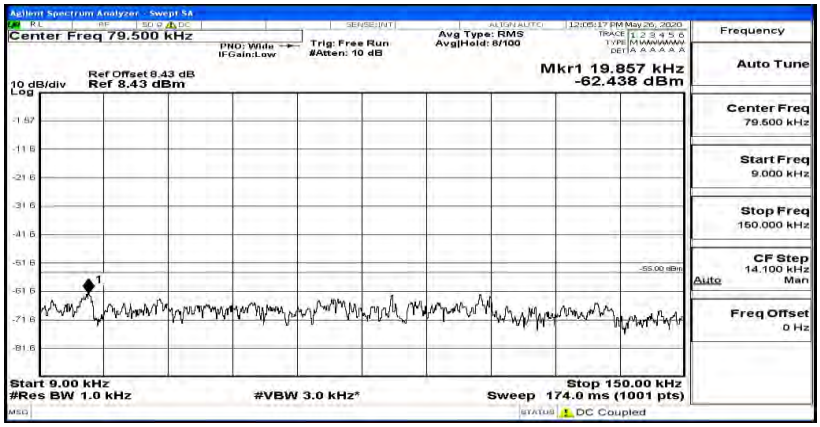

(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

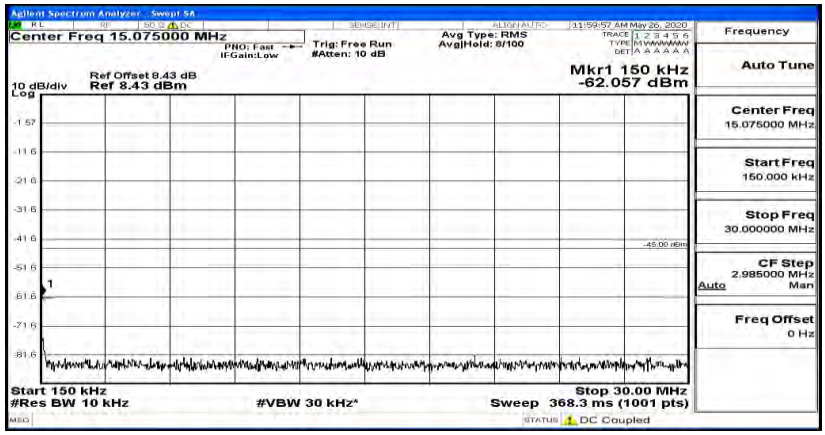


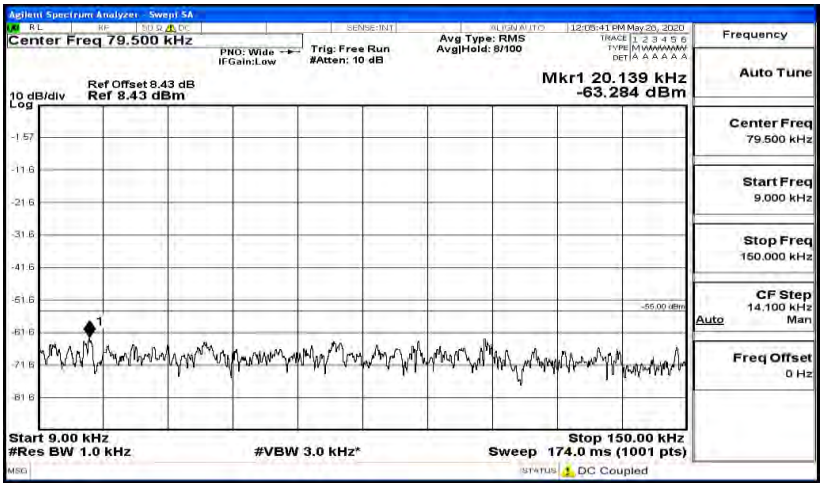


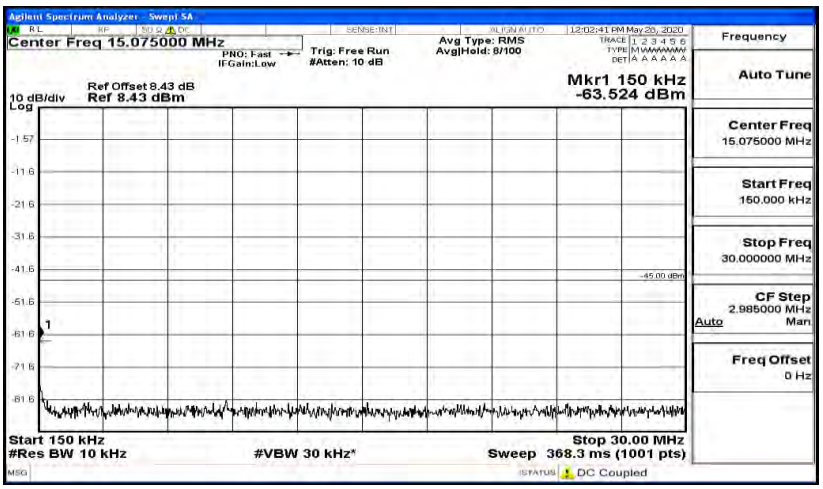

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

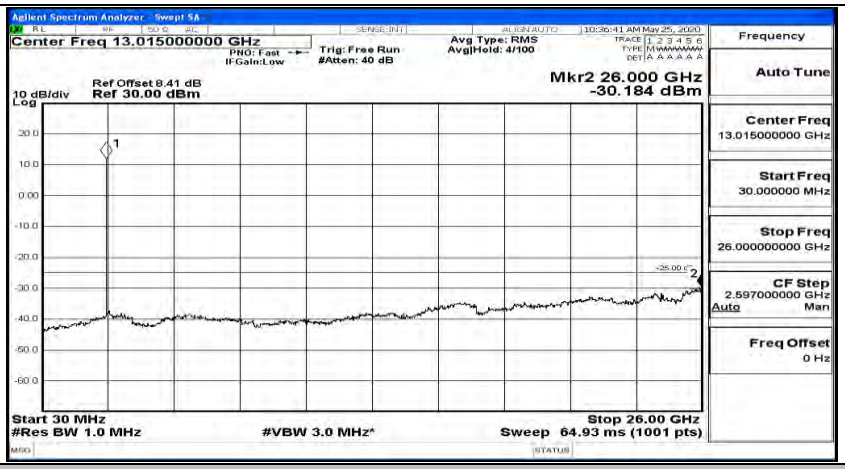


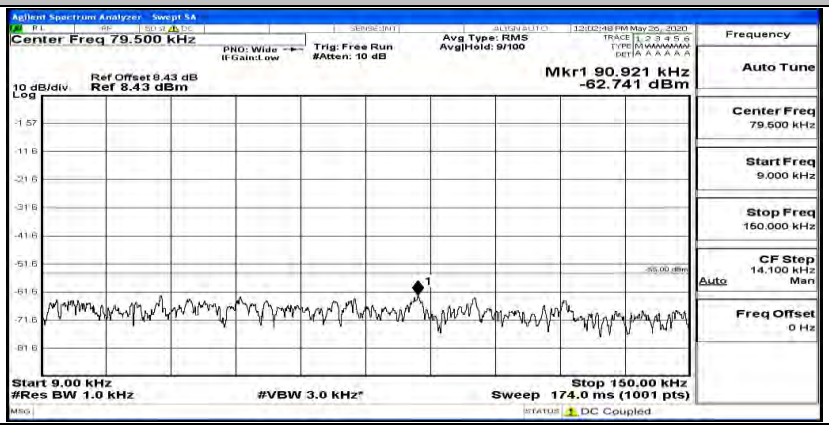
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

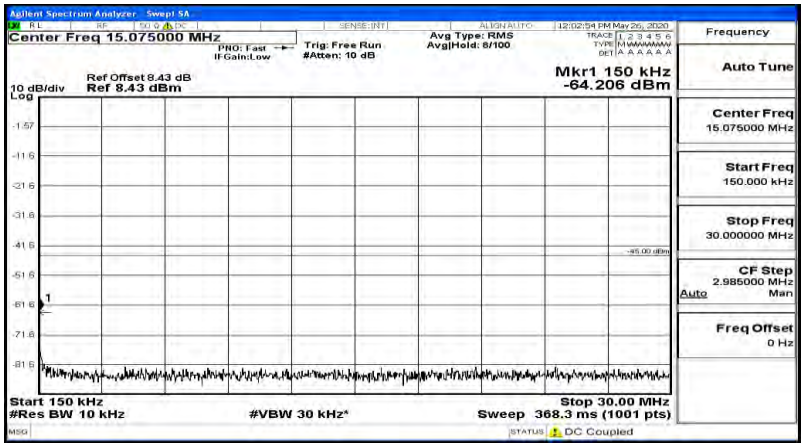


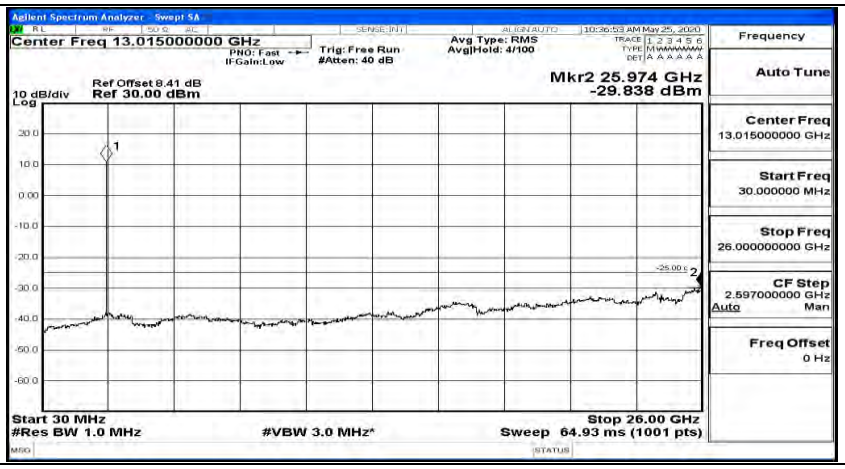





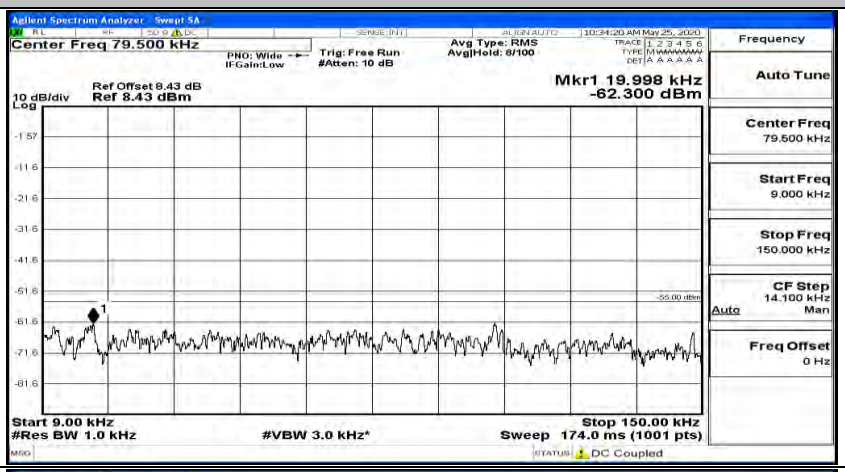

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

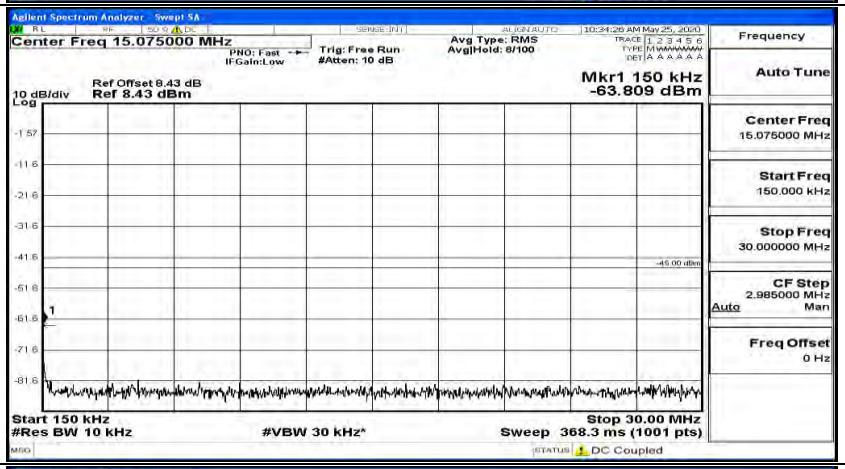


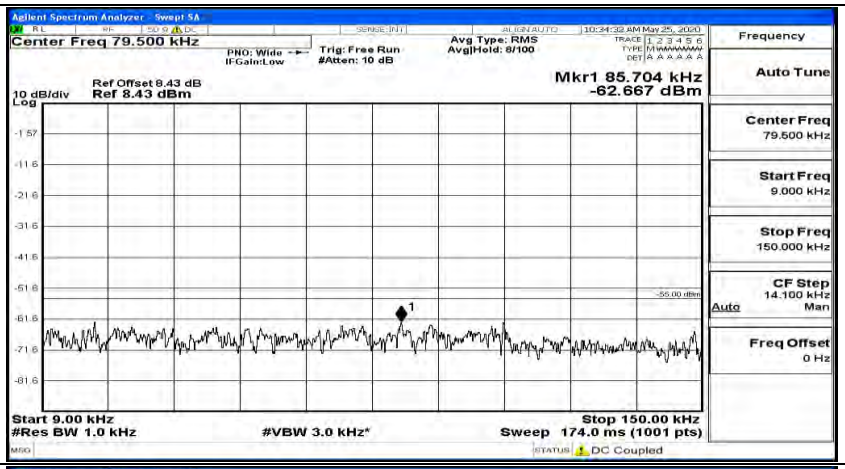



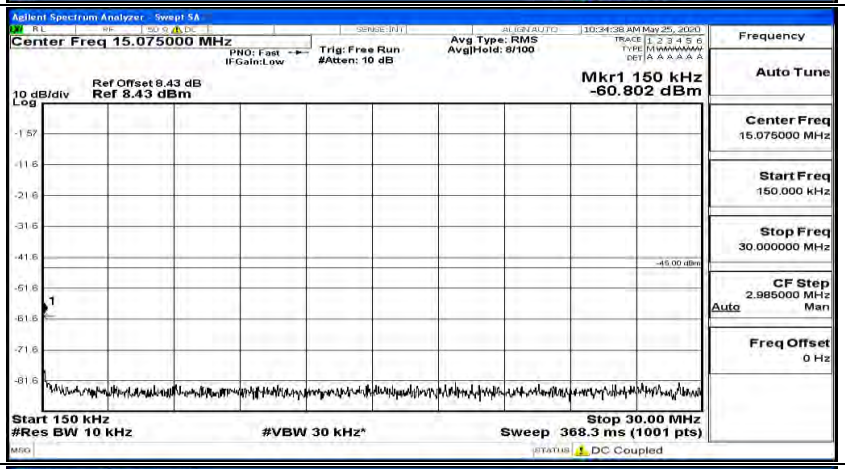
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



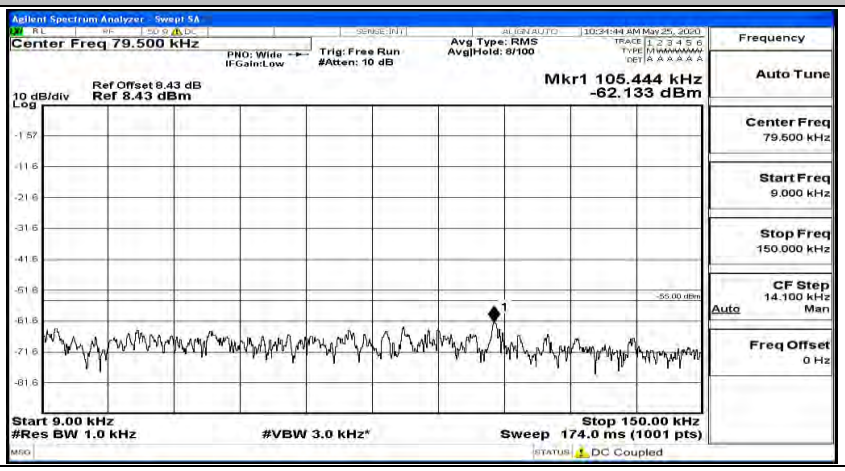



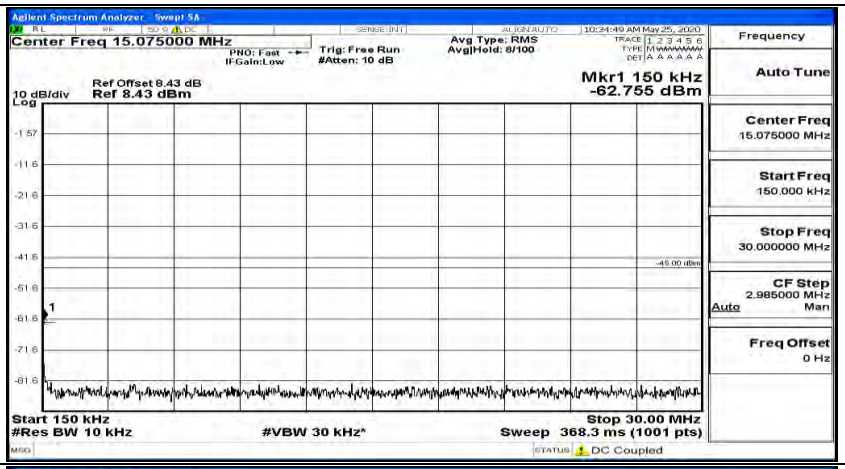
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



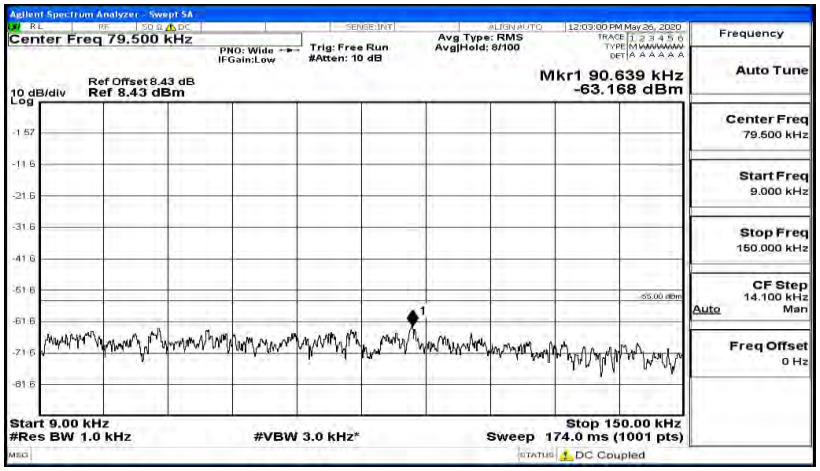



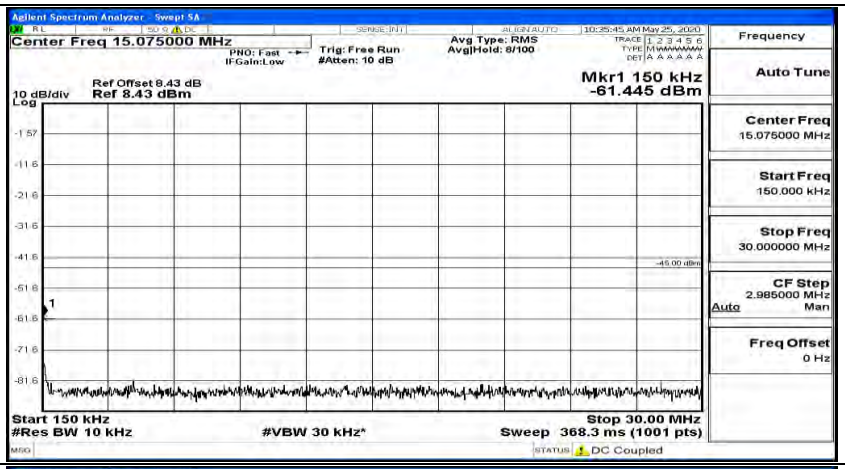
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

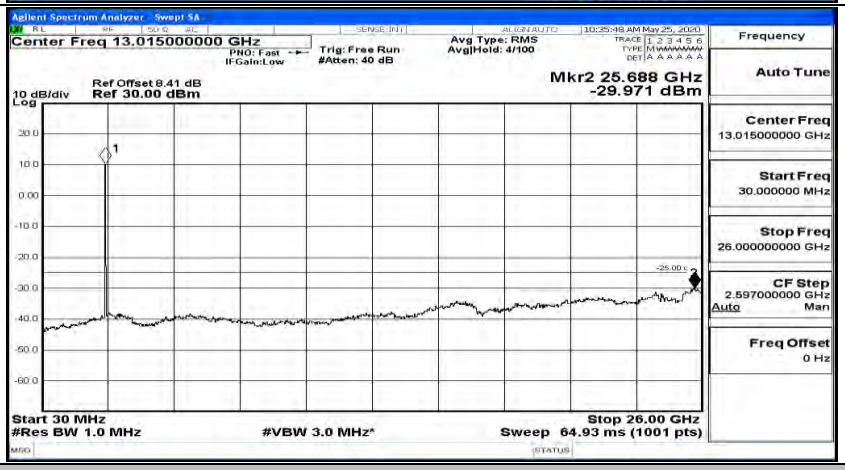




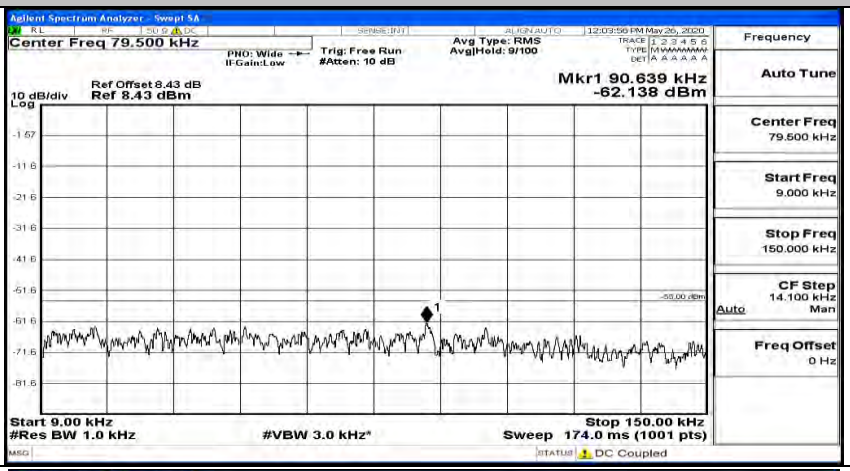
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

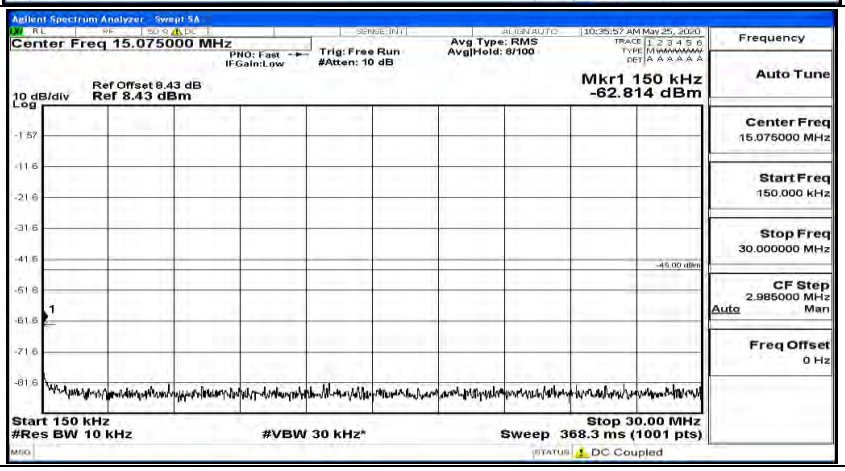


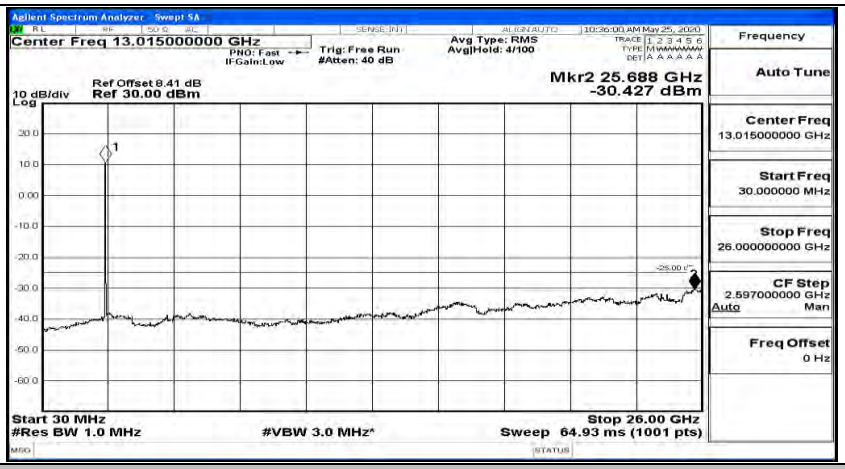


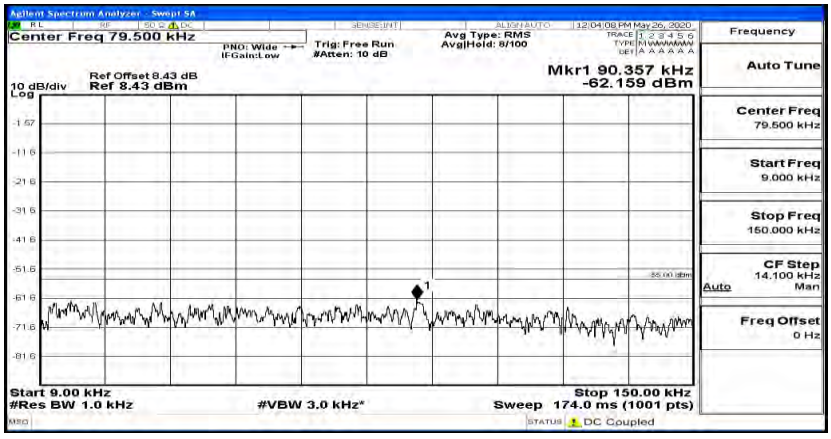

(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

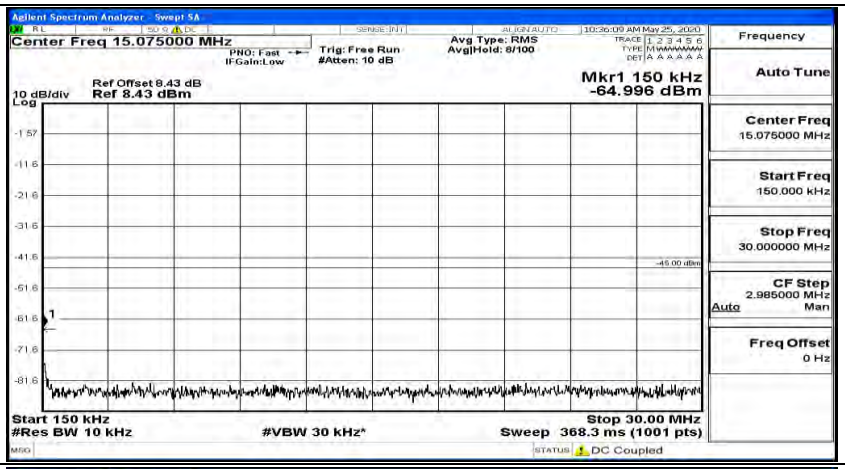


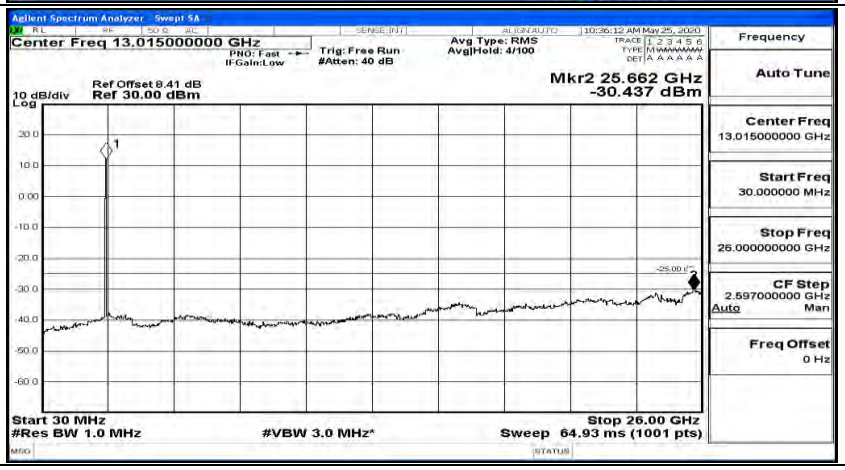





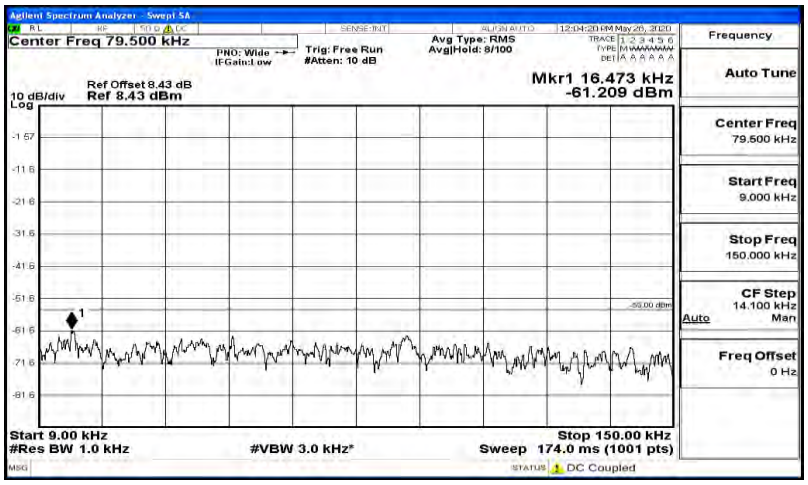

(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

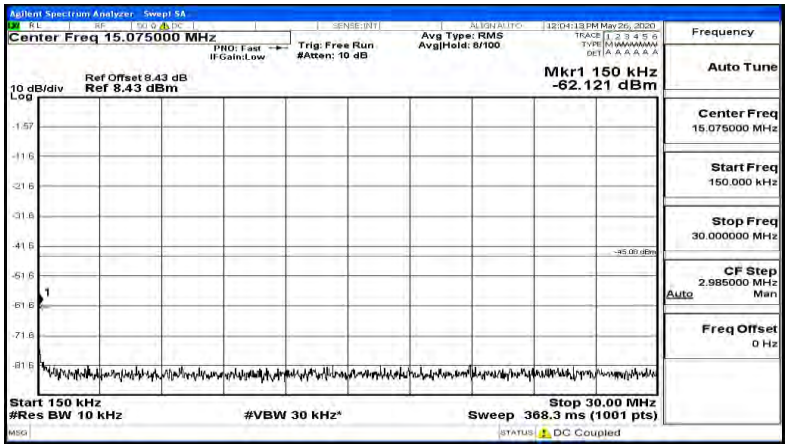


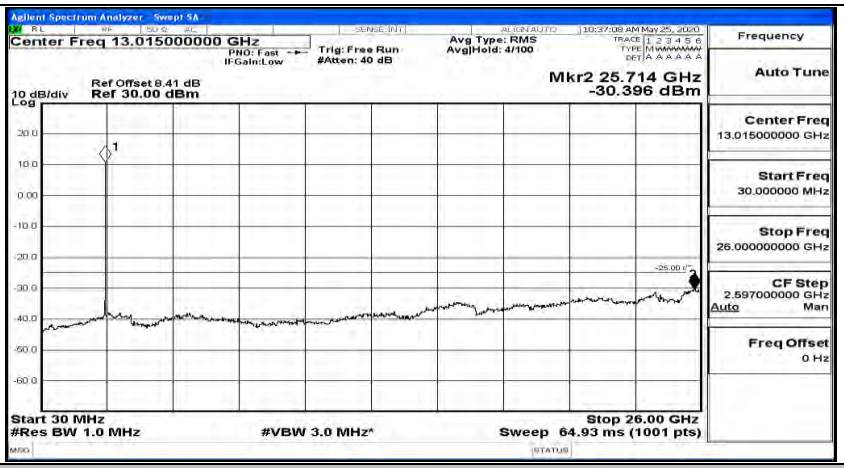



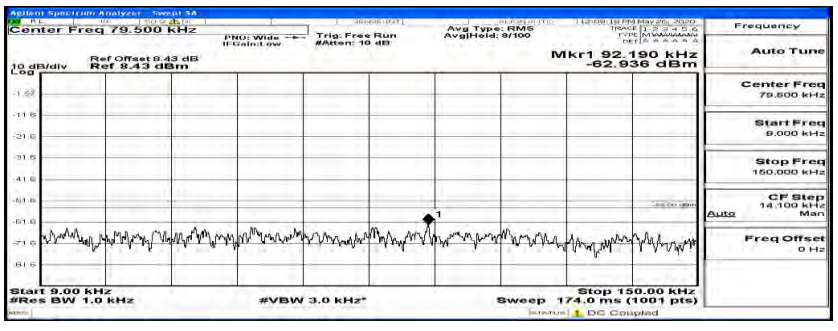
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

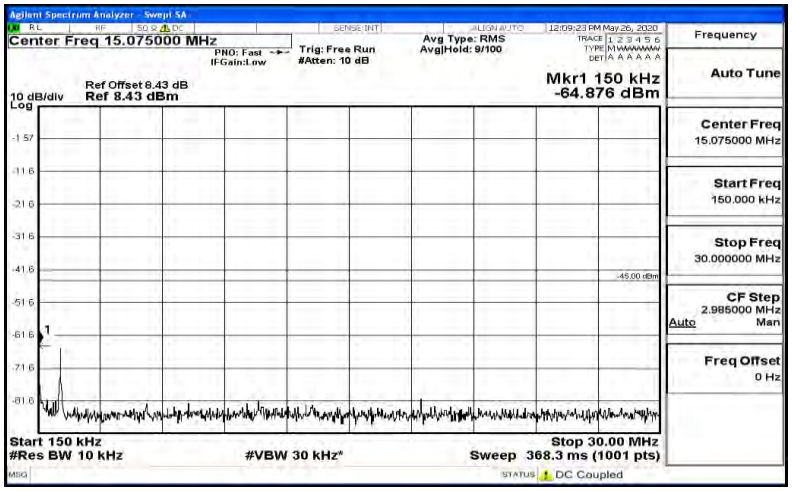


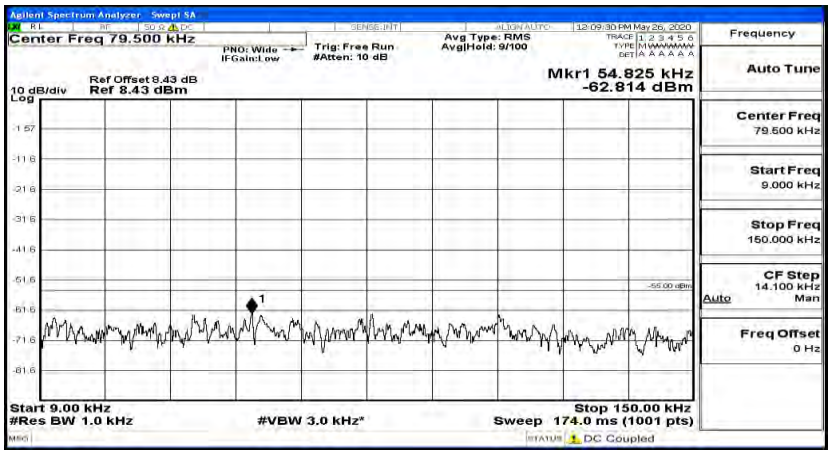



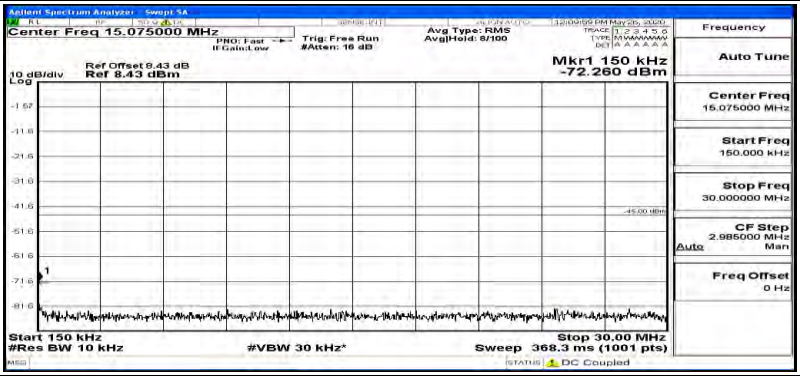

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

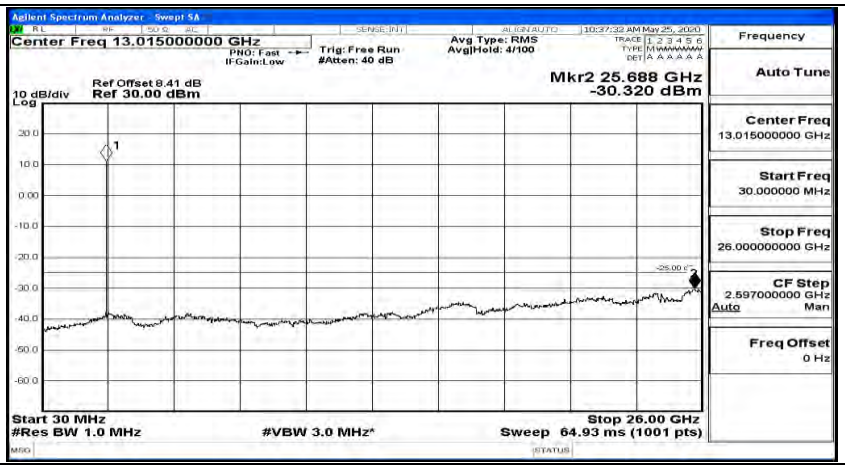




(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24






## Channel Bandwidth: 10 MHz

| Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0 |
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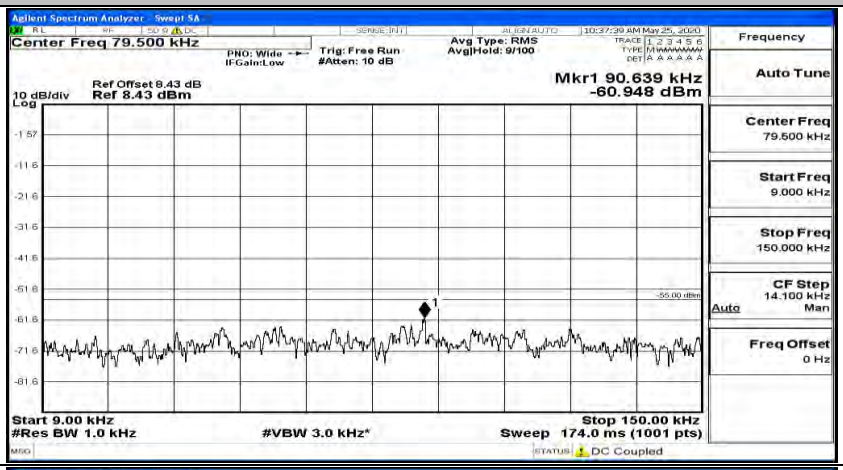
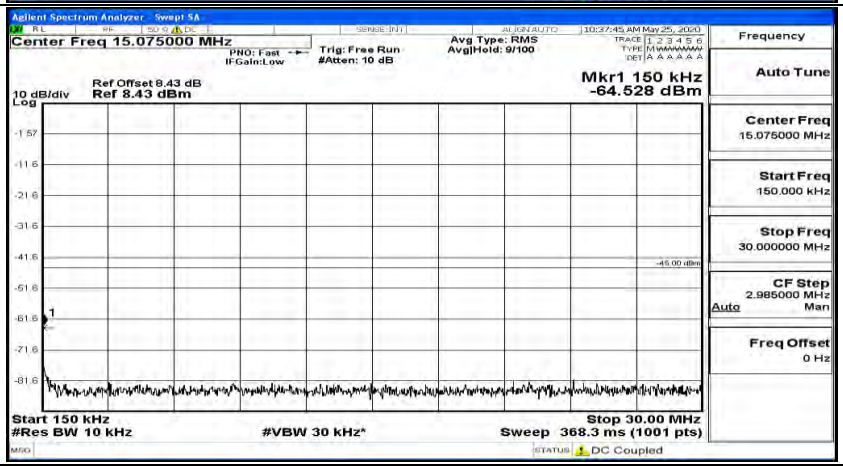
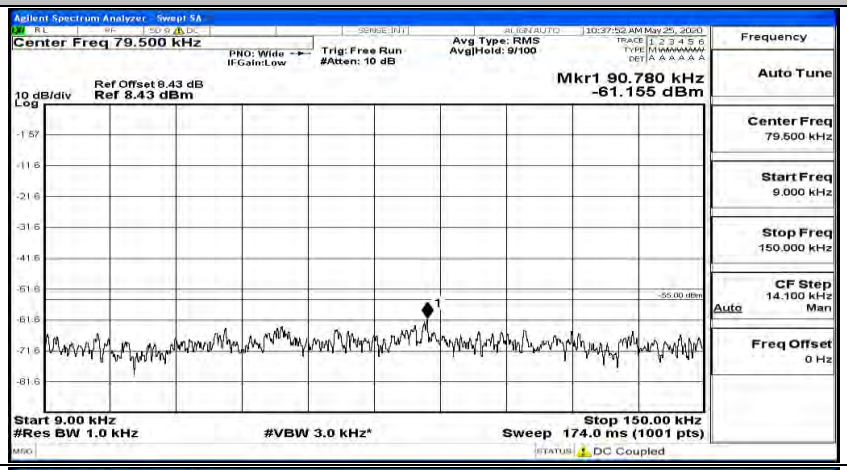
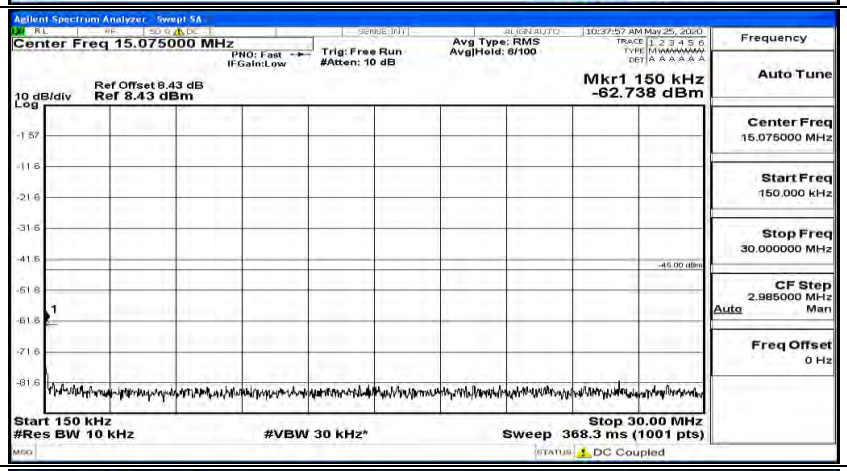
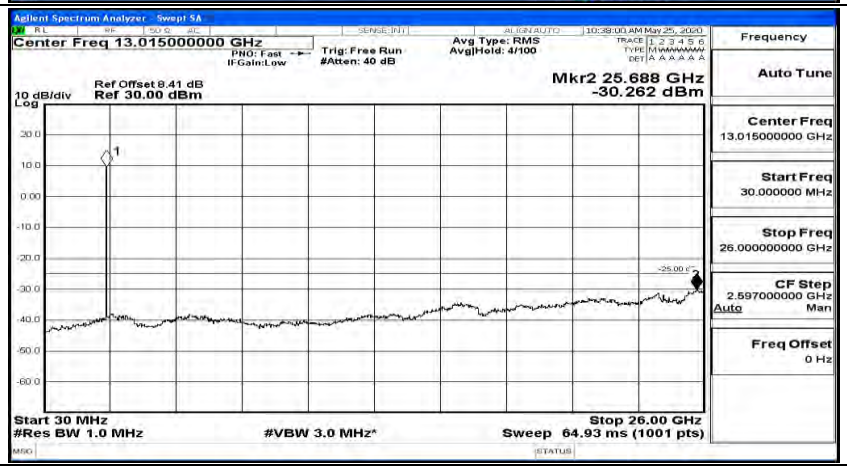
|  |
|  |

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24



| Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49 |
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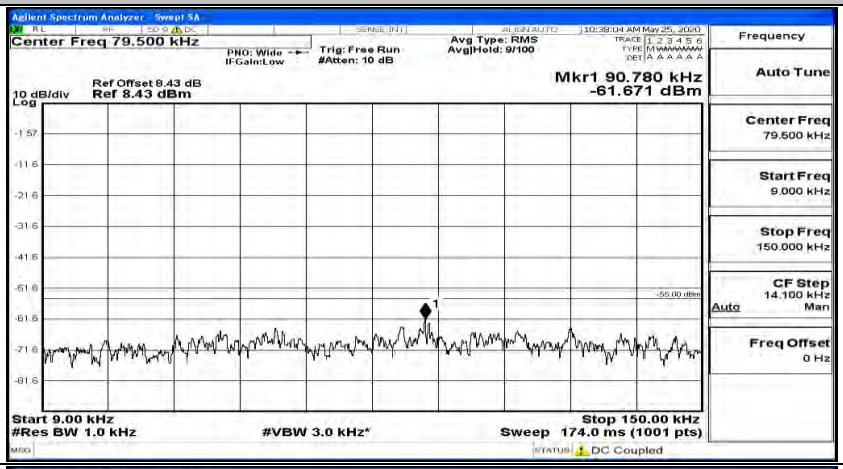
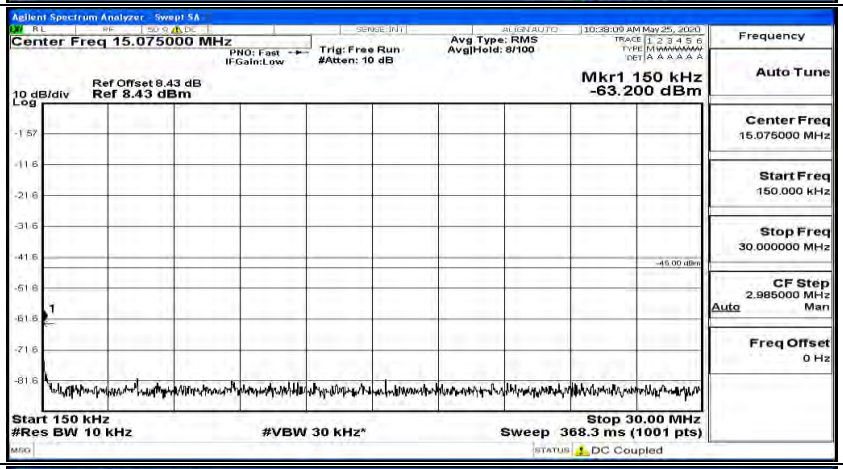
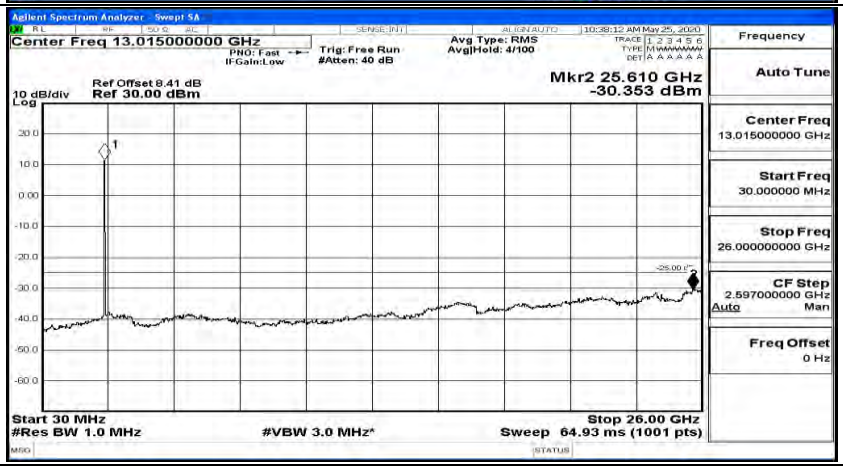
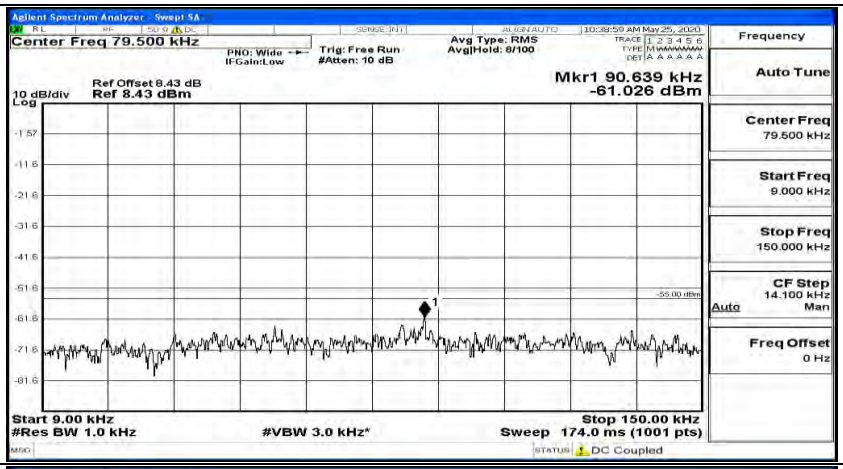
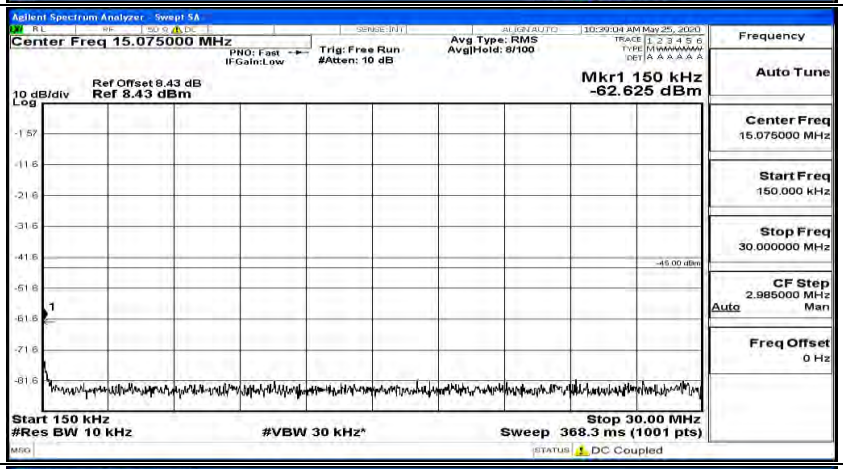
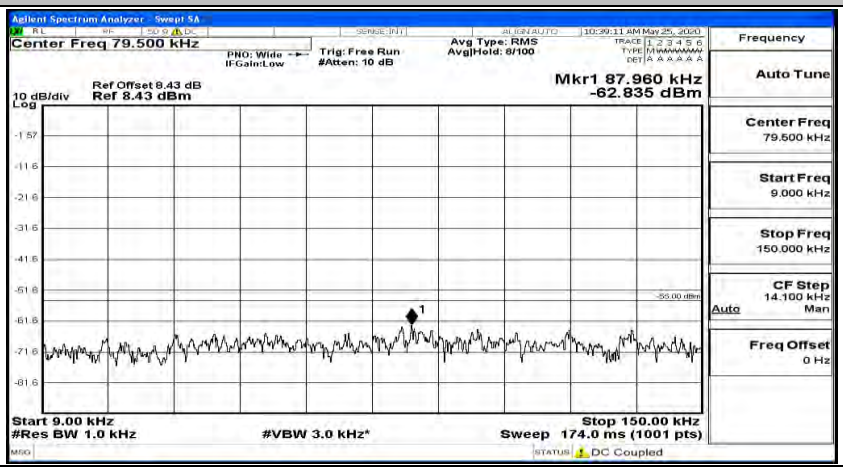
|  |
|  |
|  |

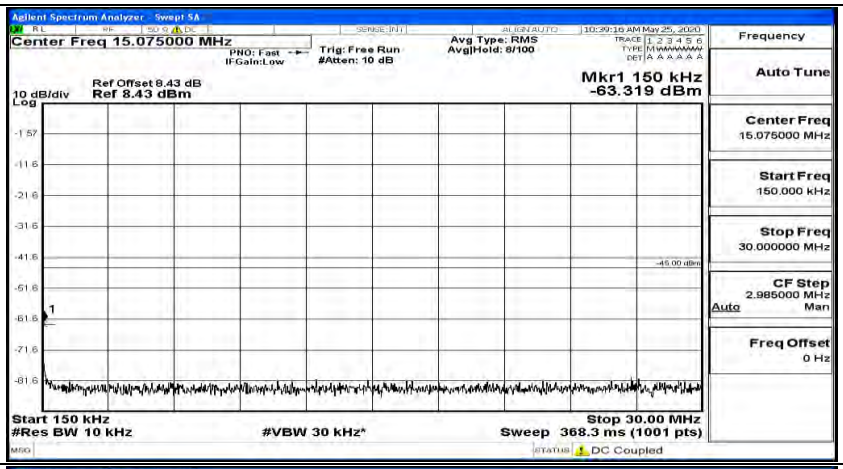
| Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0 |
|---|



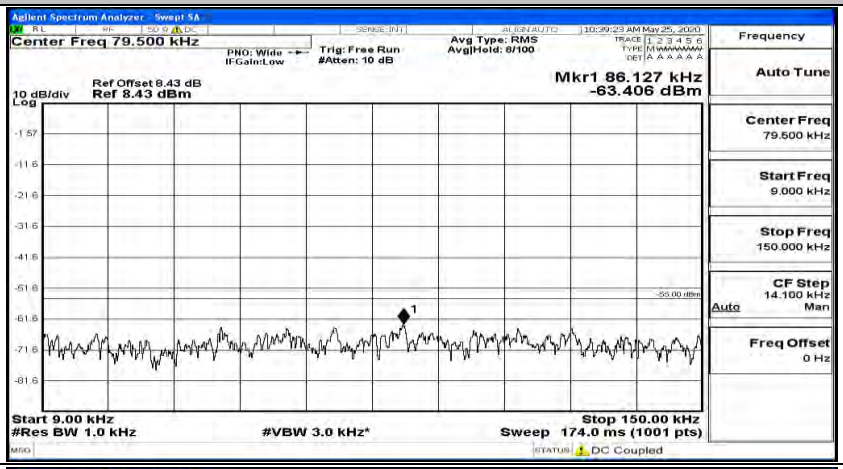



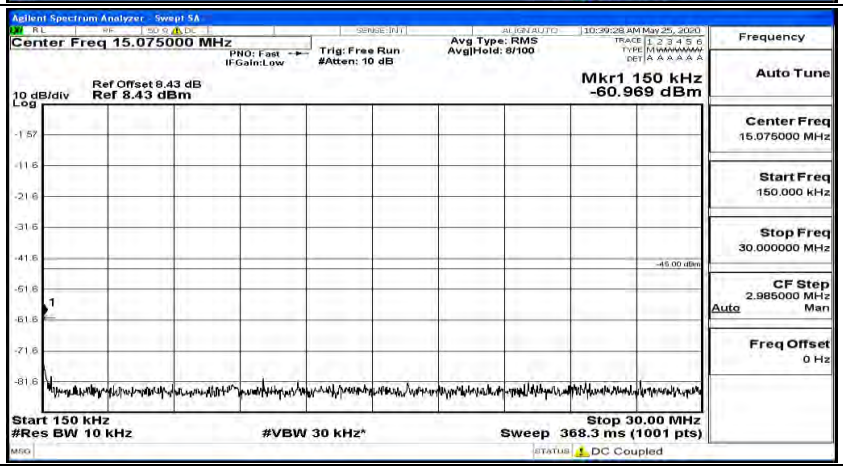
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24





Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49



| Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0 |
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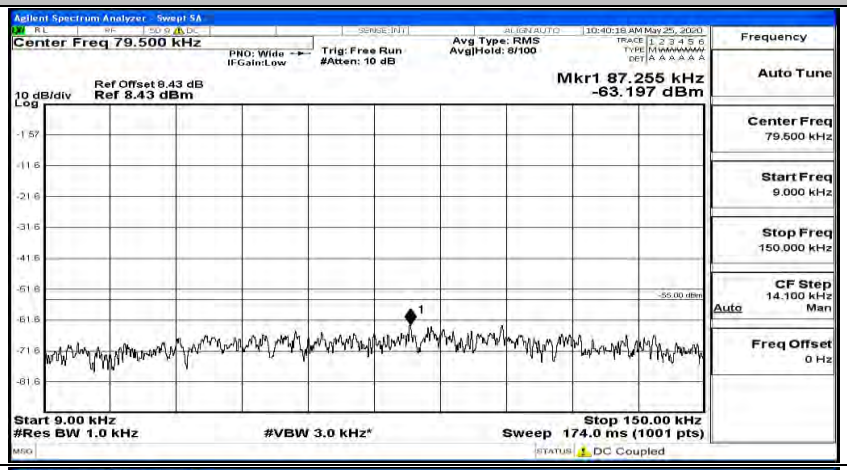
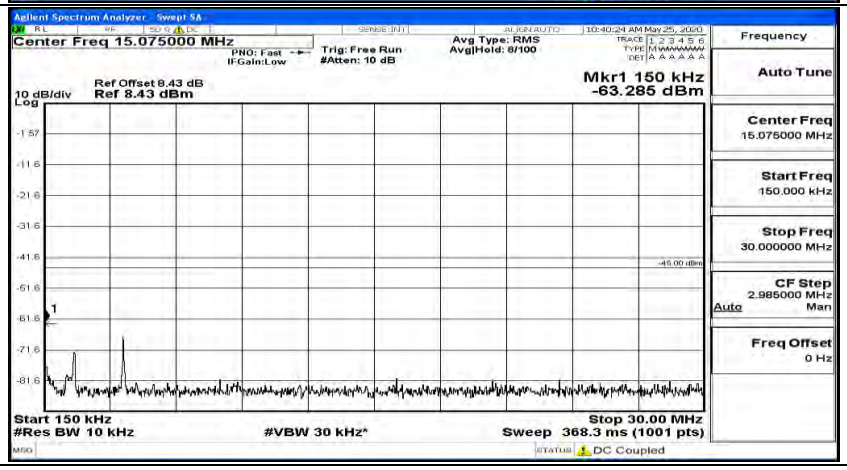
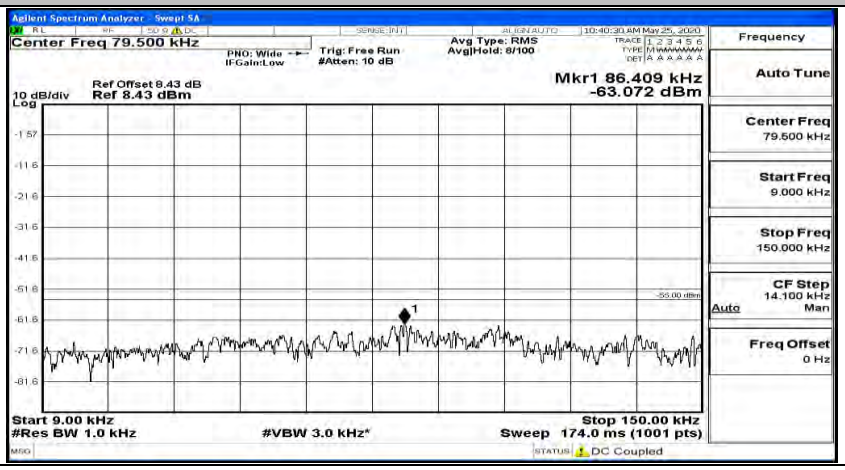
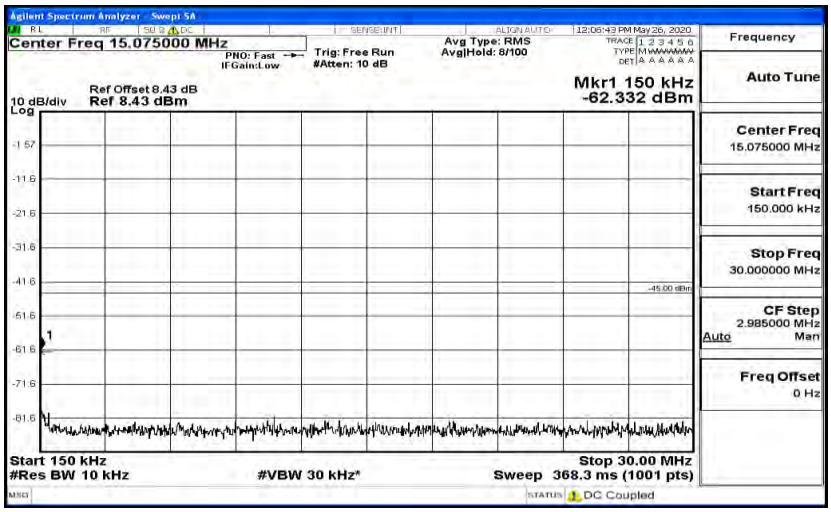
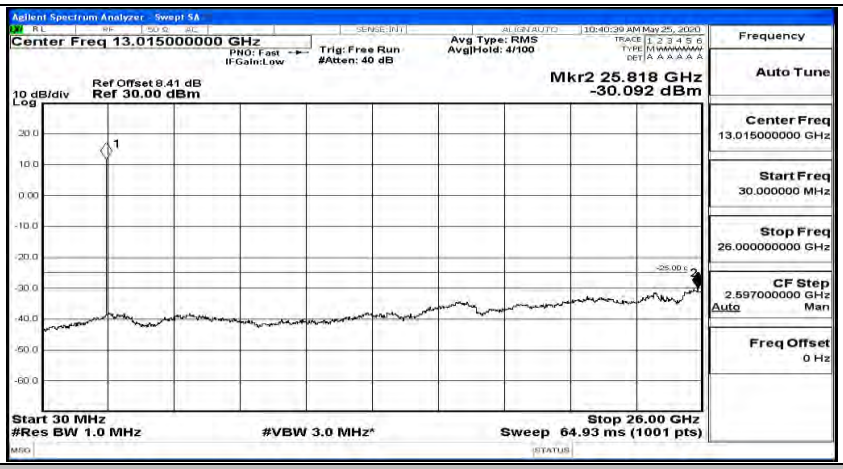


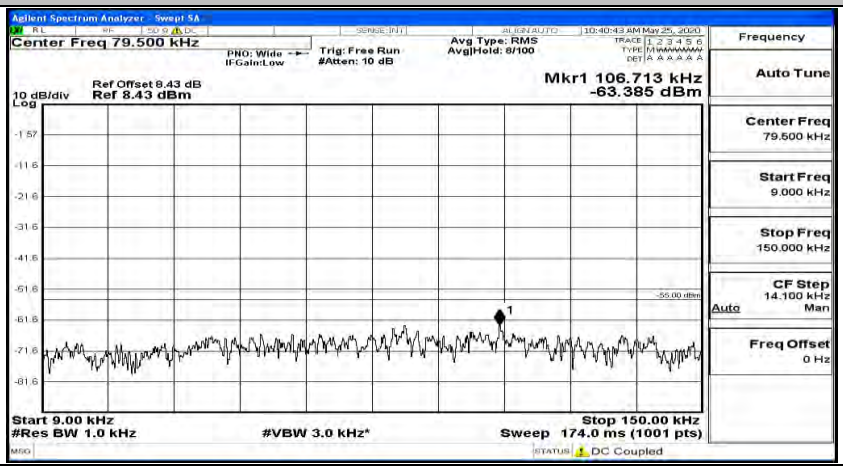
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

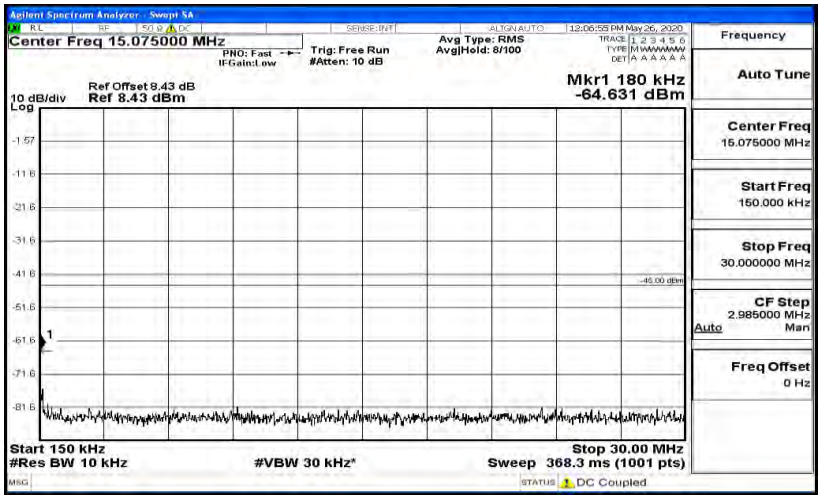


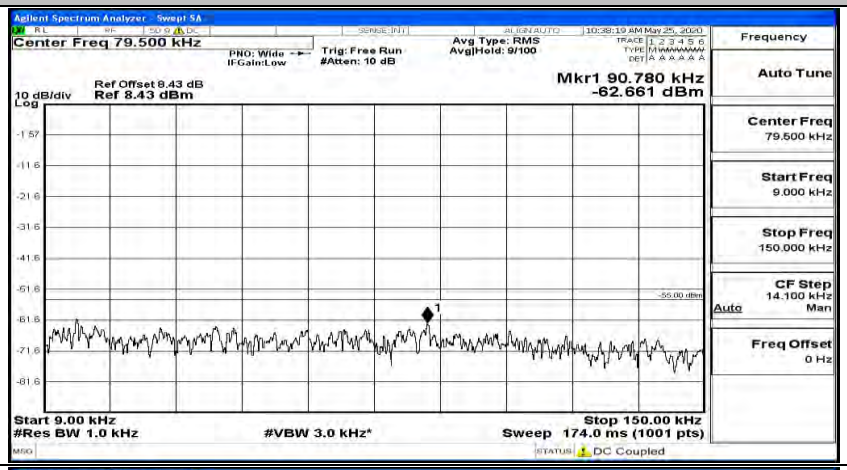


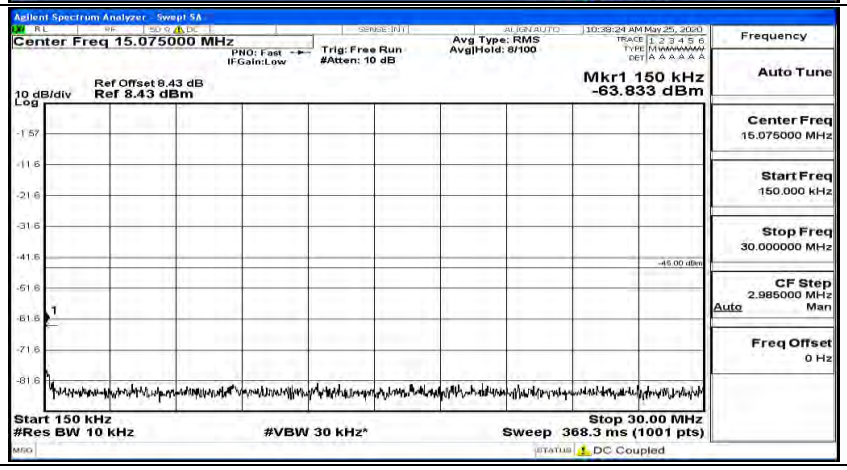

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49



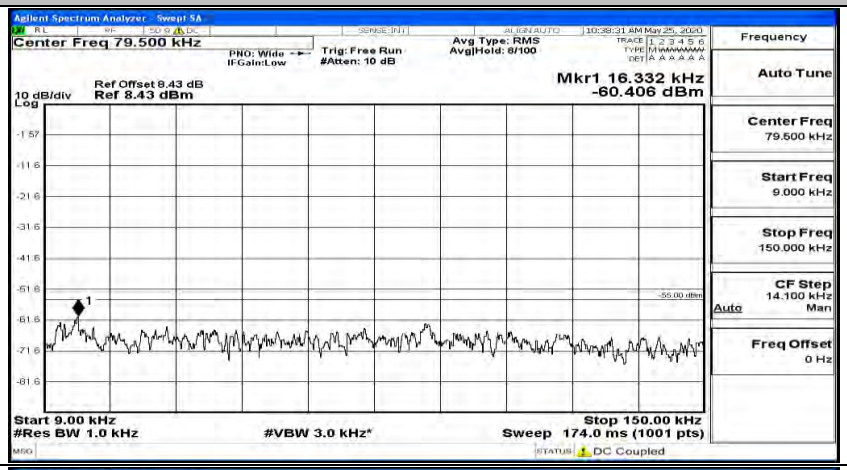



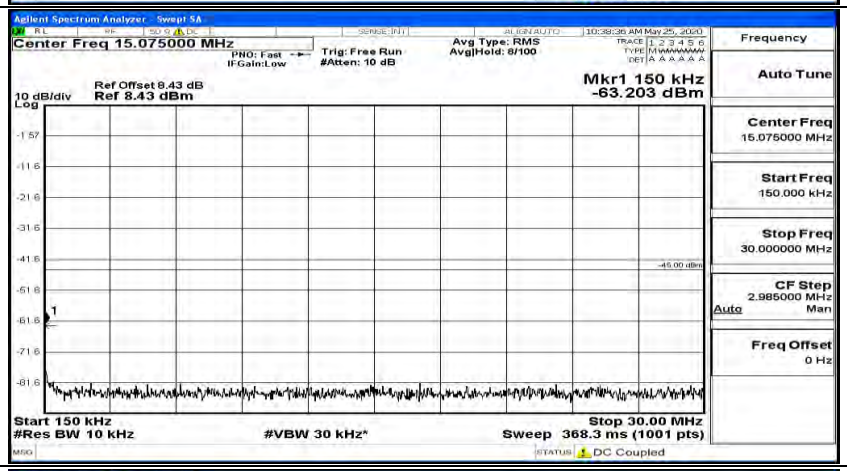
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

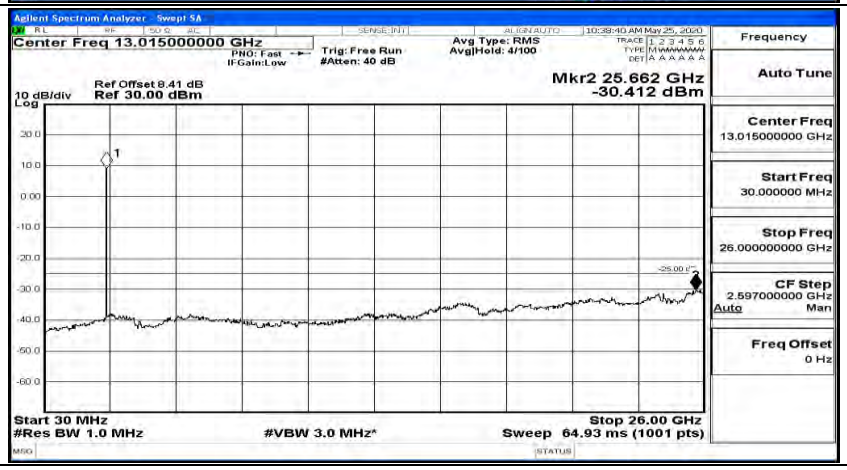


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24



| Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49 |
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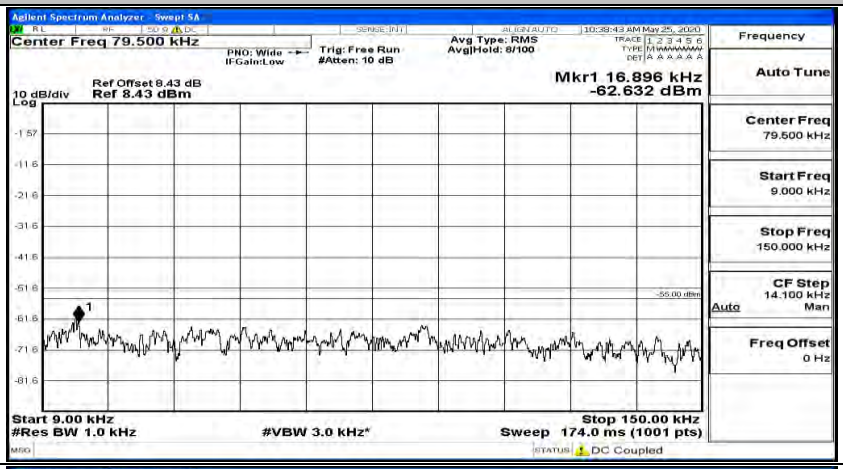
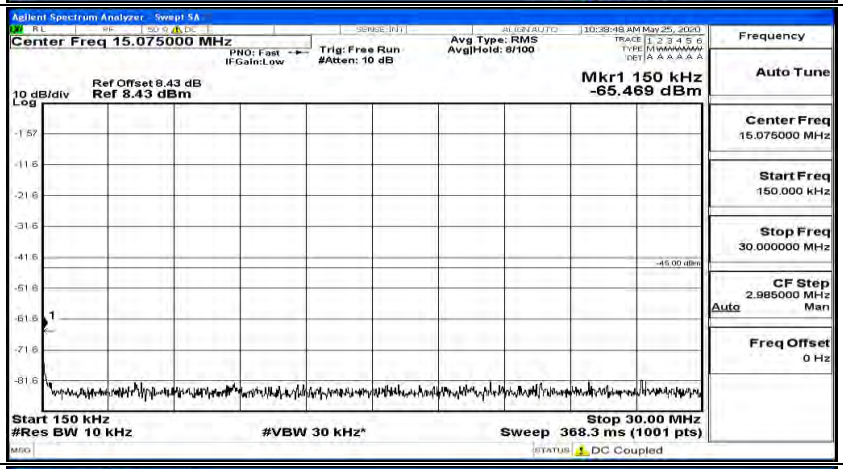
|  |
|  |
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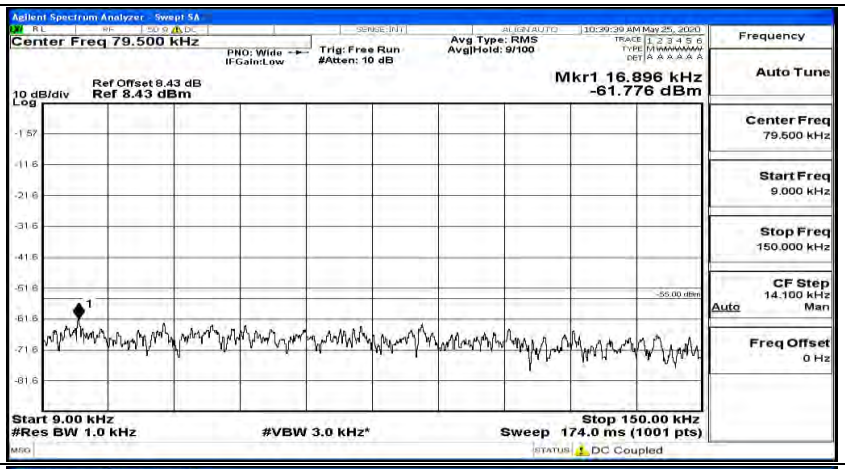
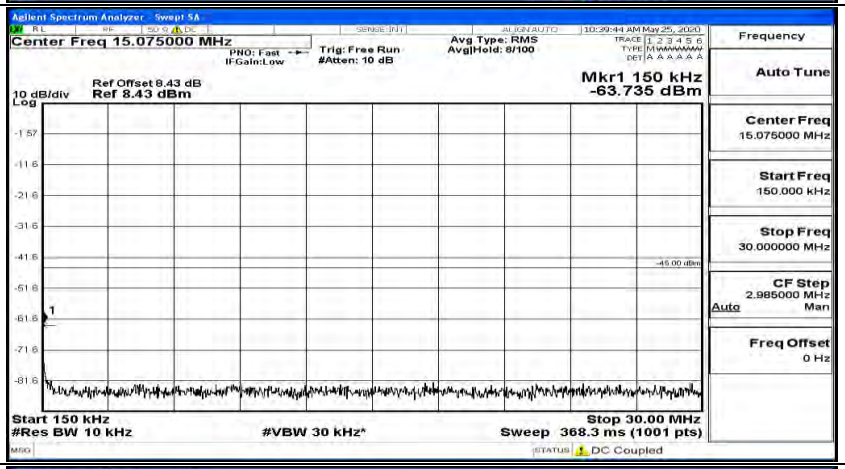
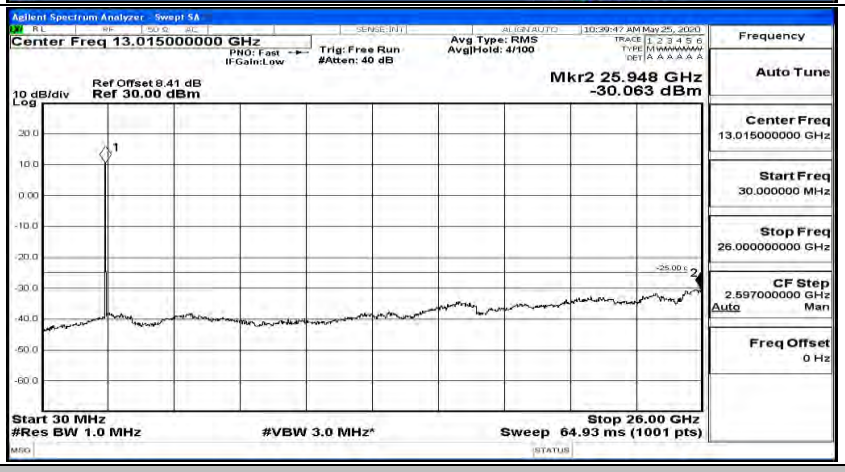
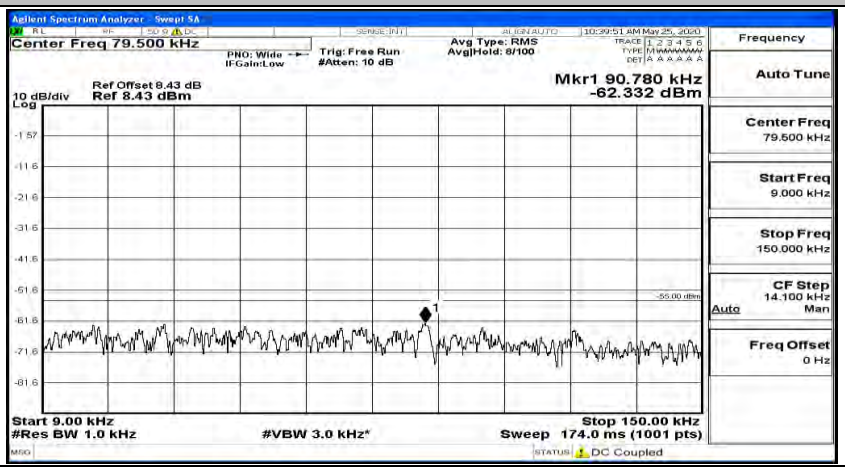
| Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0 |
|---|

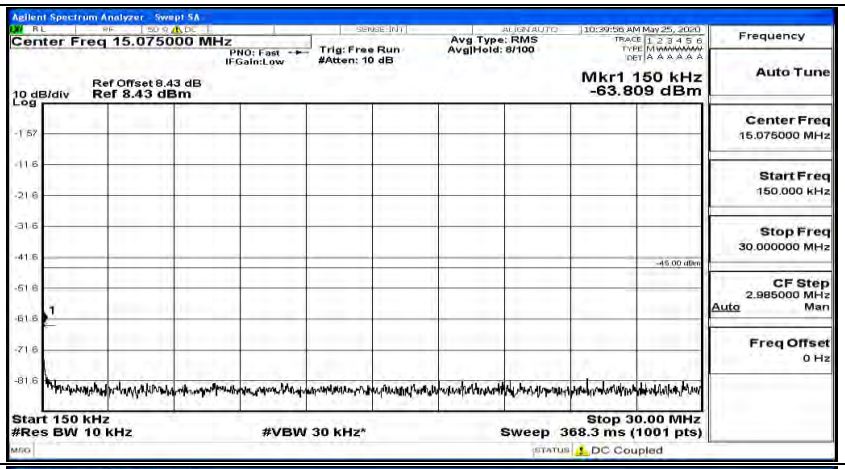


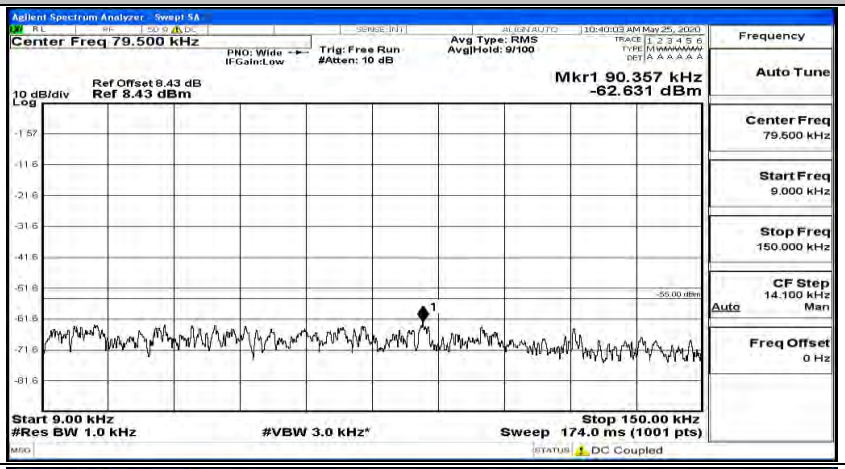



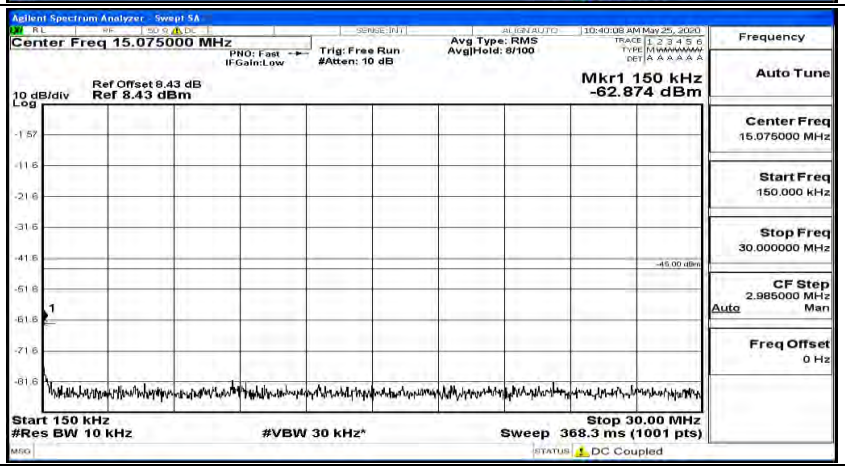

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

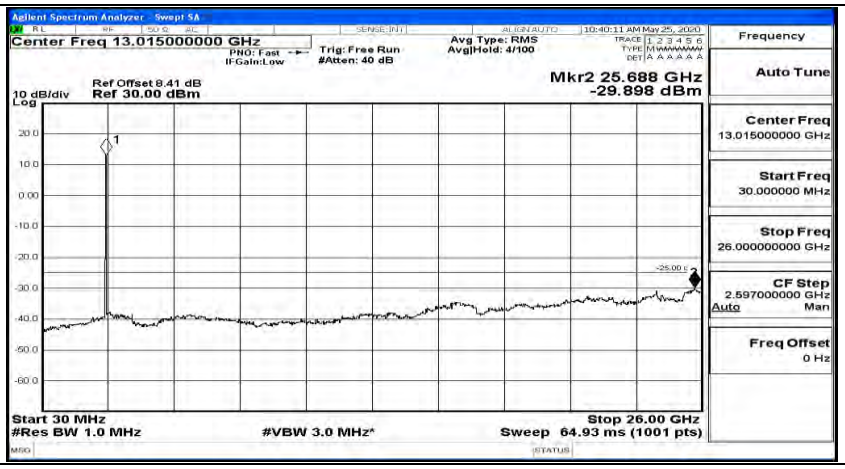




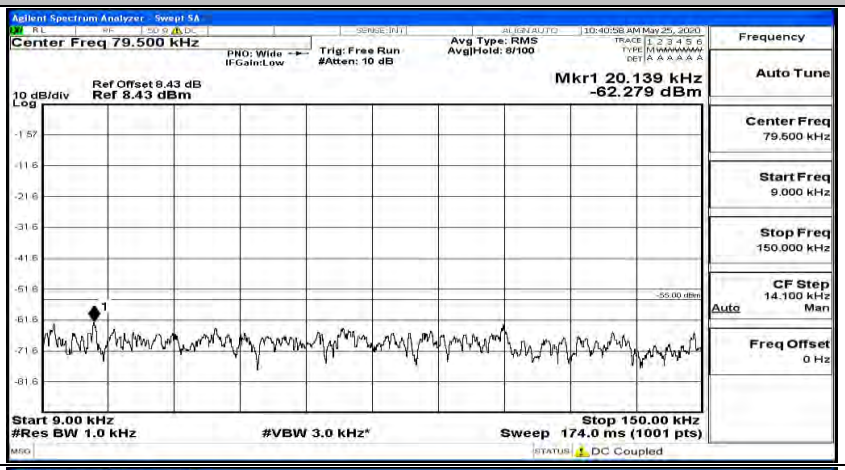
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49

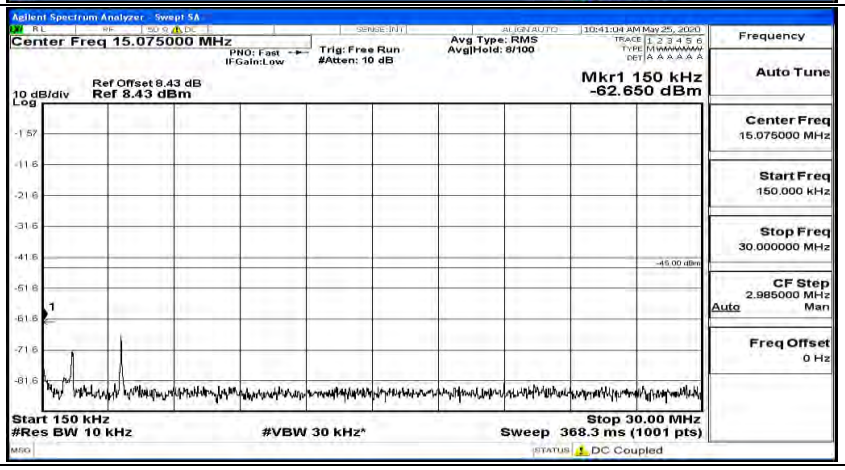


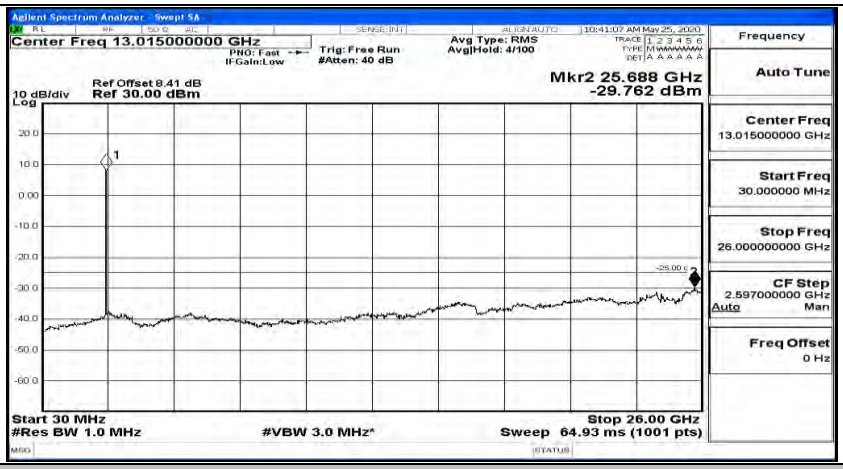





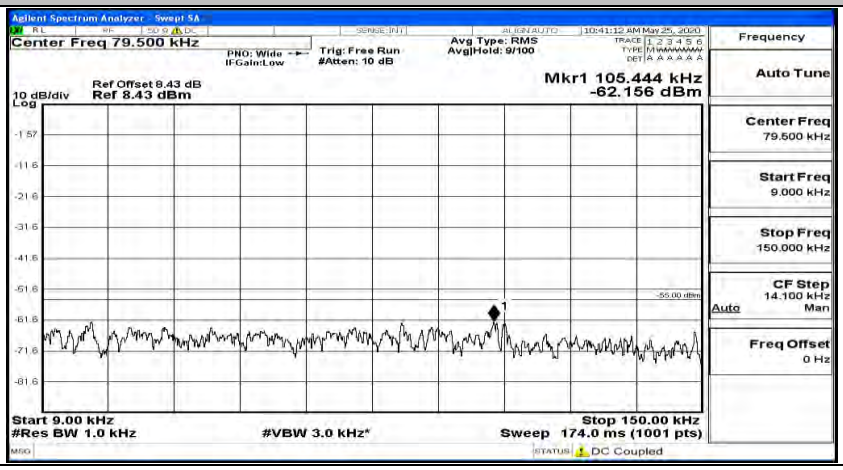

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



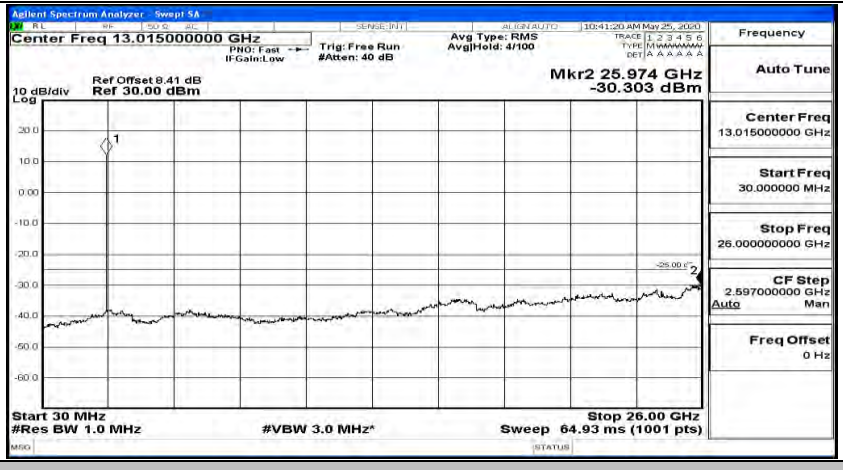





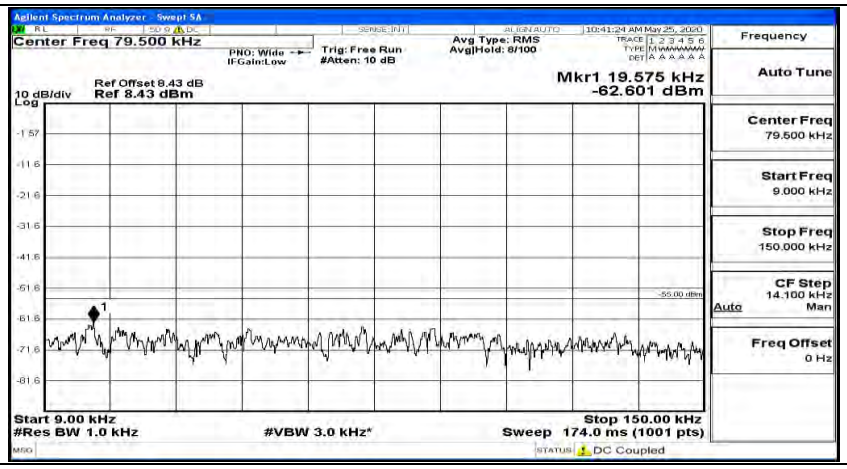

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

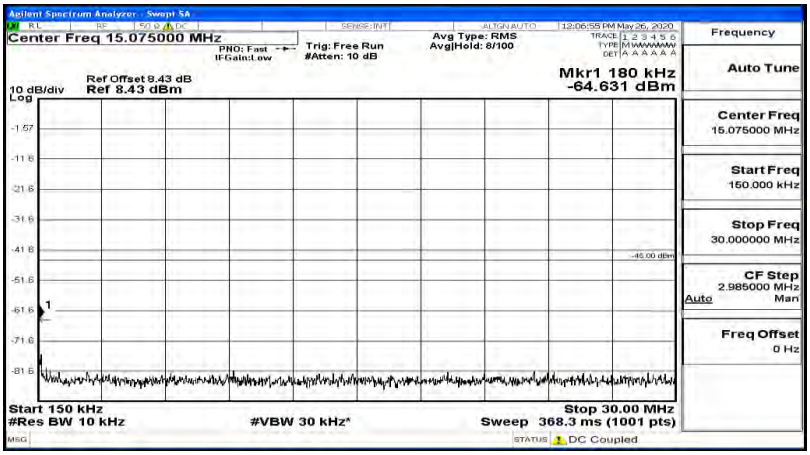


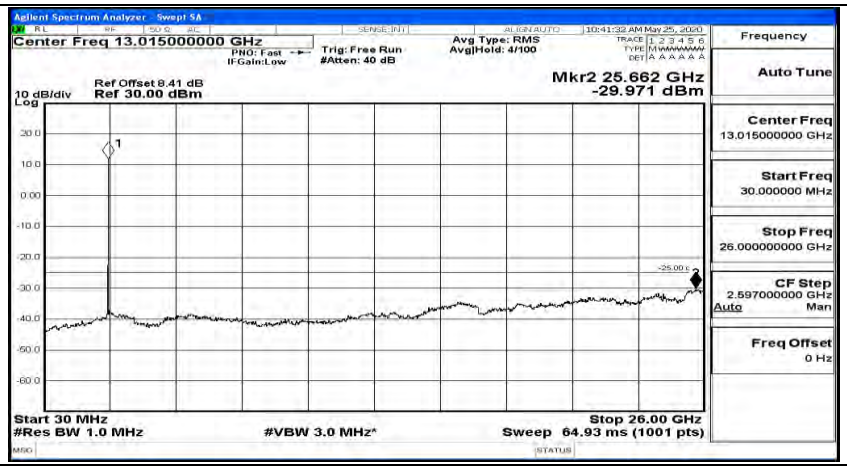

#Img-16QAM-H-10-1-M-CSE-2




Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49

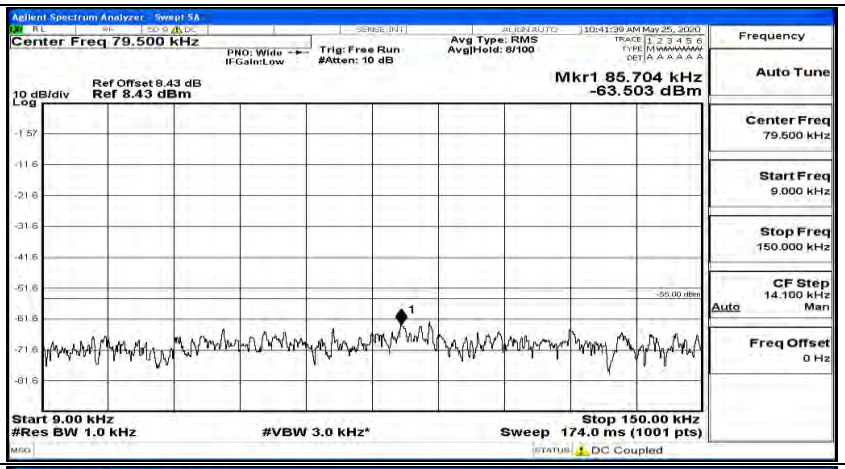


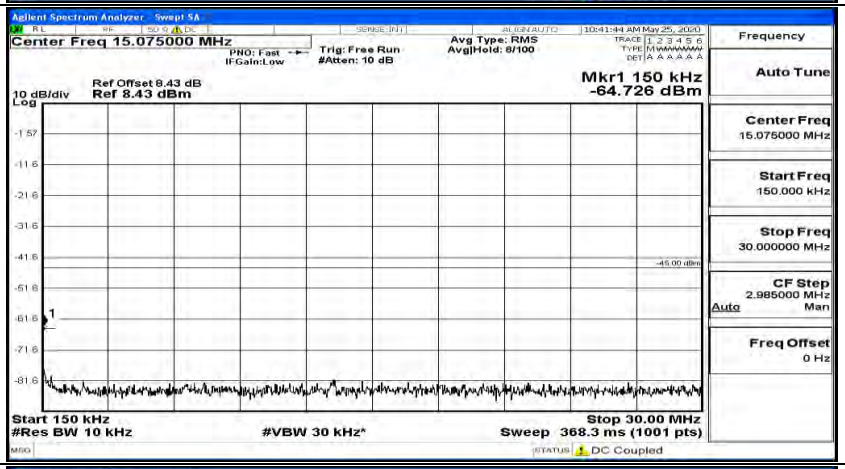



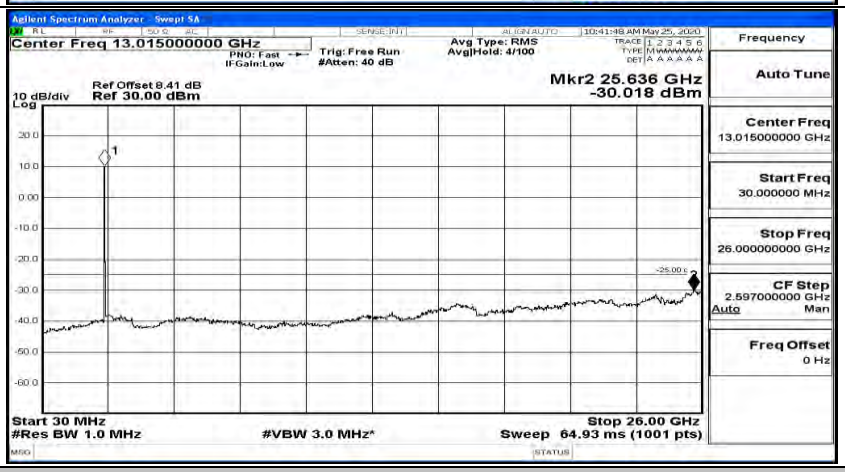




## Channel Bandwidth: 15 MHz

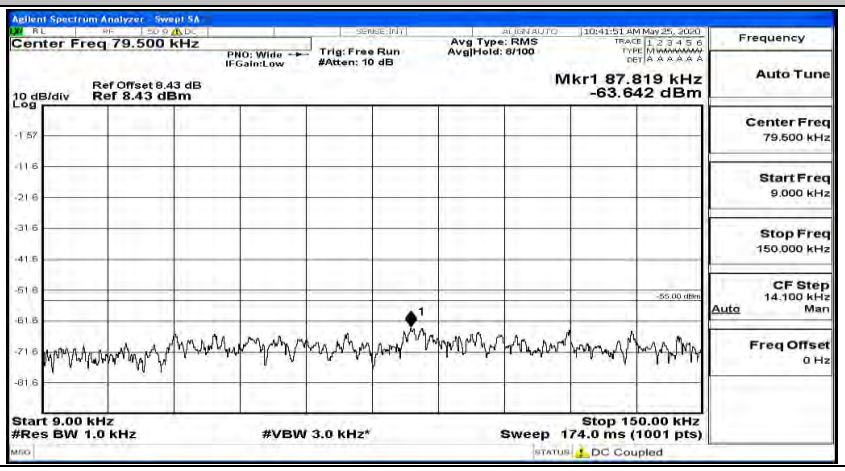
| (Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0 |
|---|

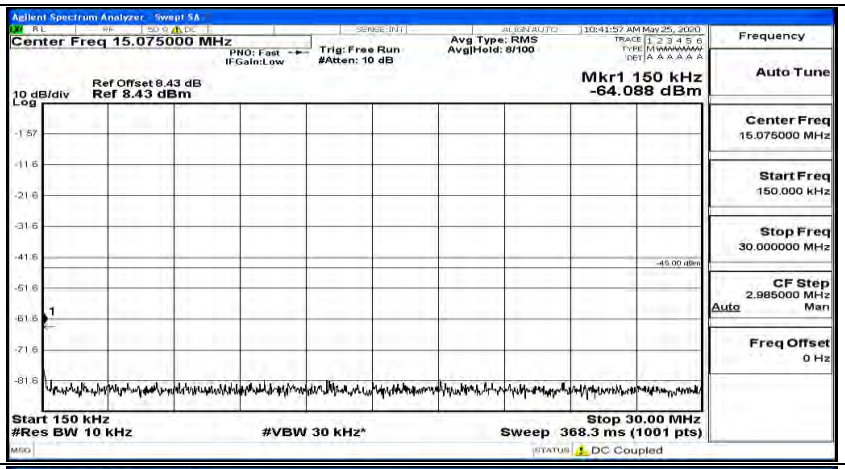


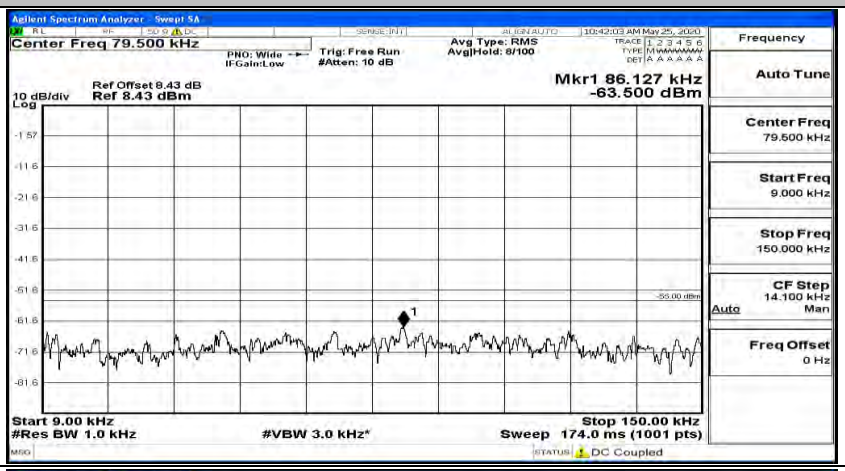



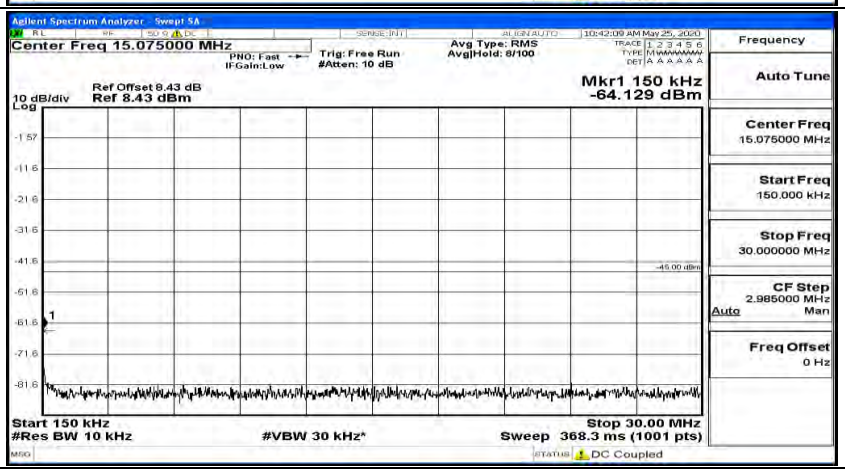

(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#37



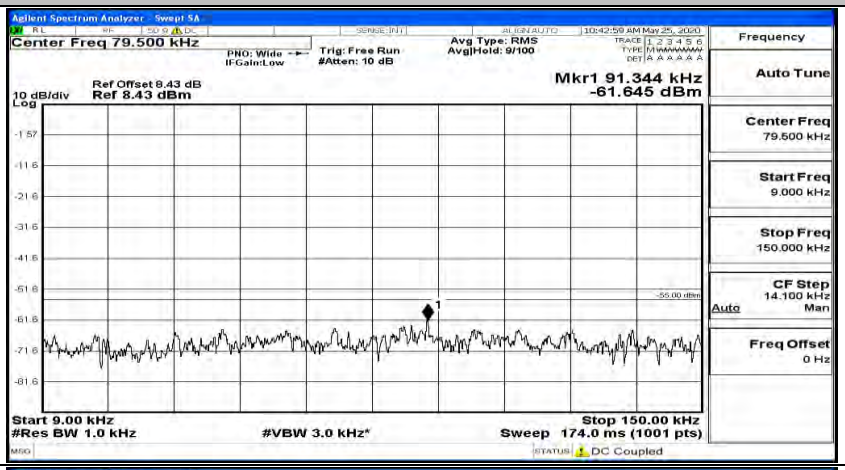


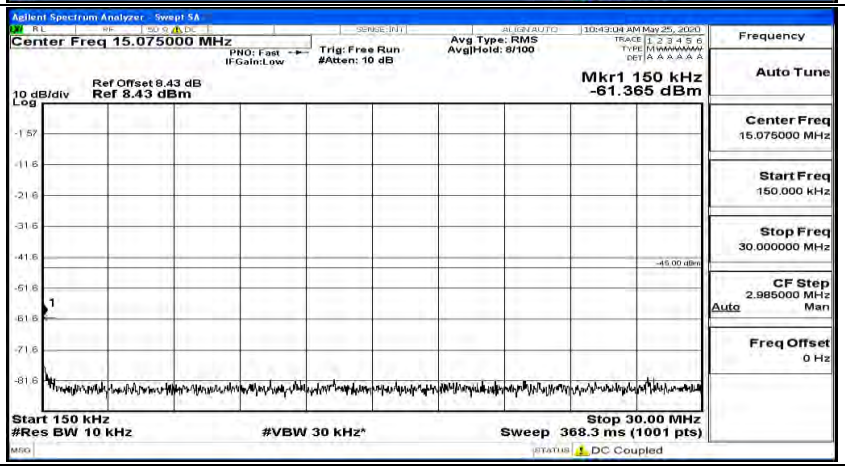
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#74

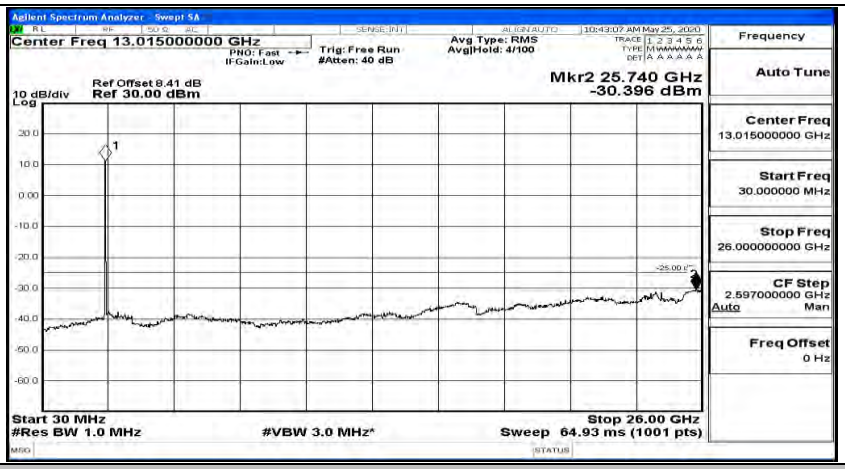


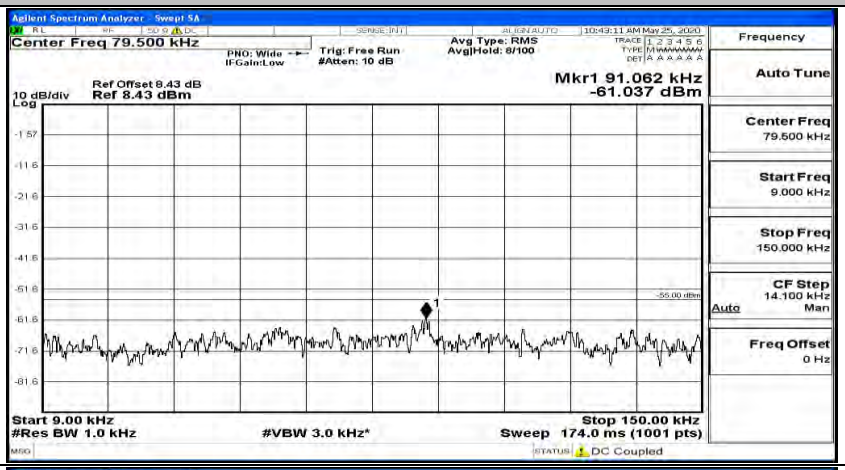
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

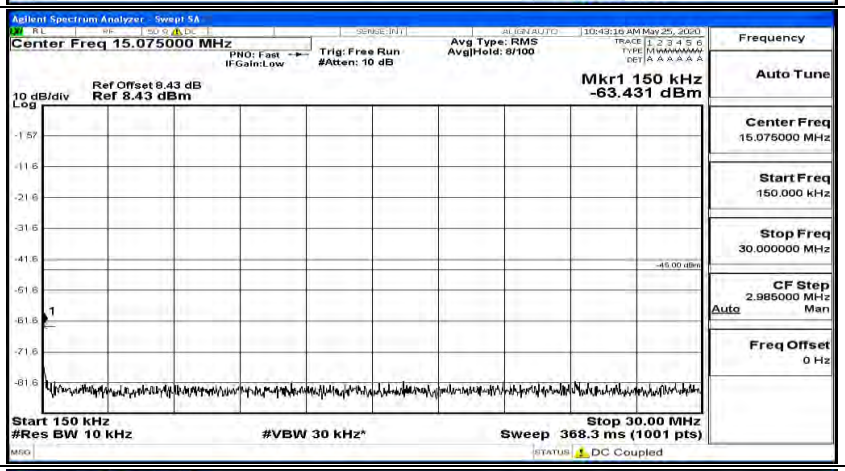


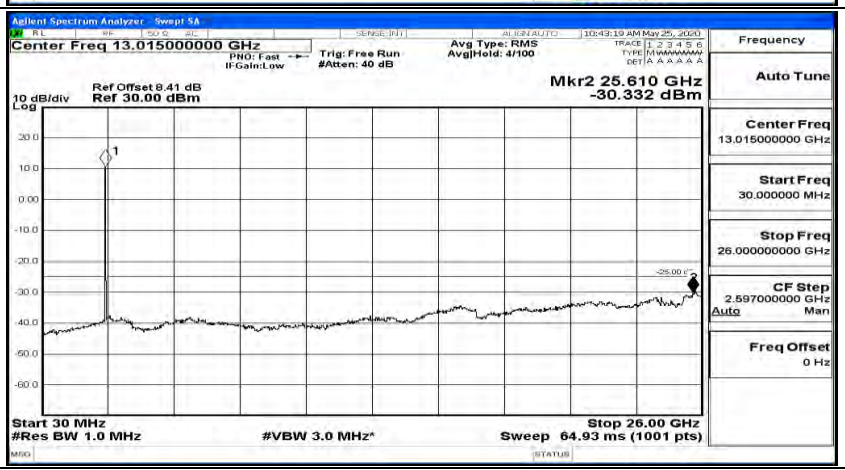





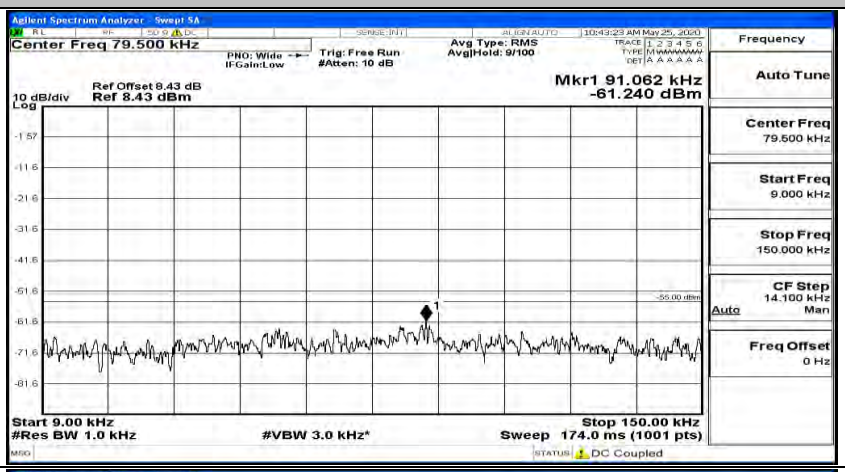

(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

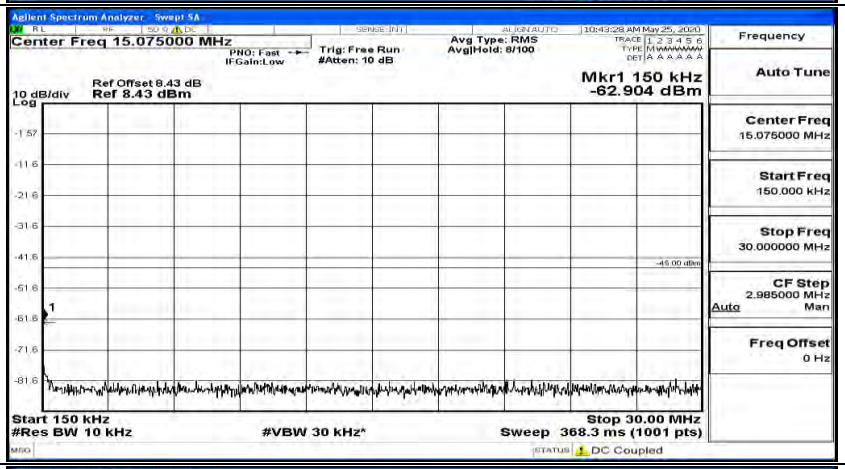


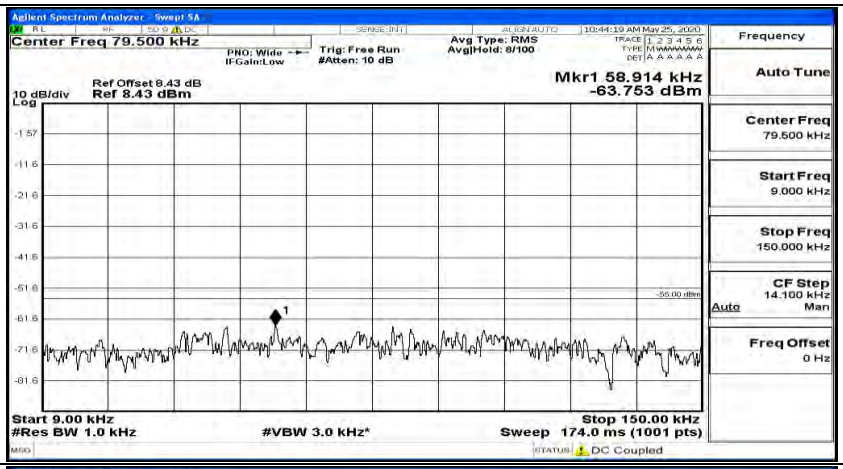



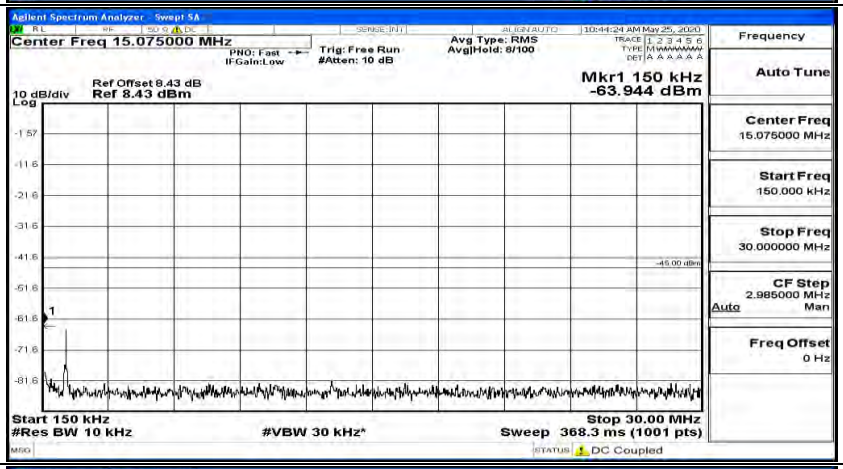
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#74



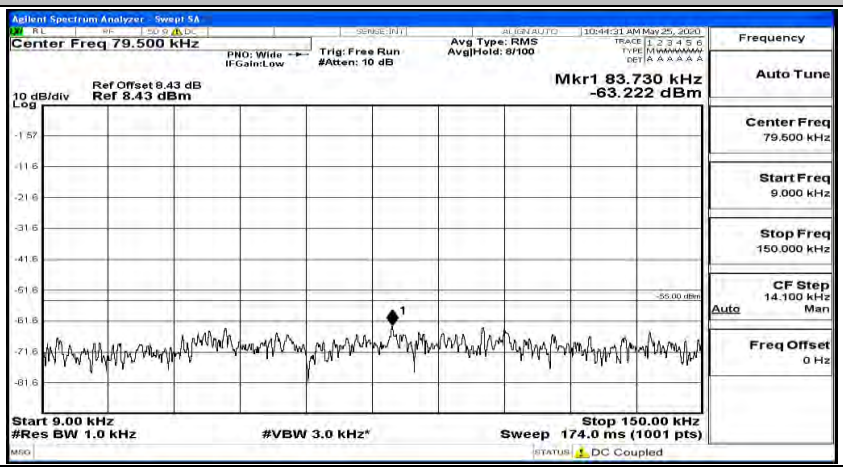



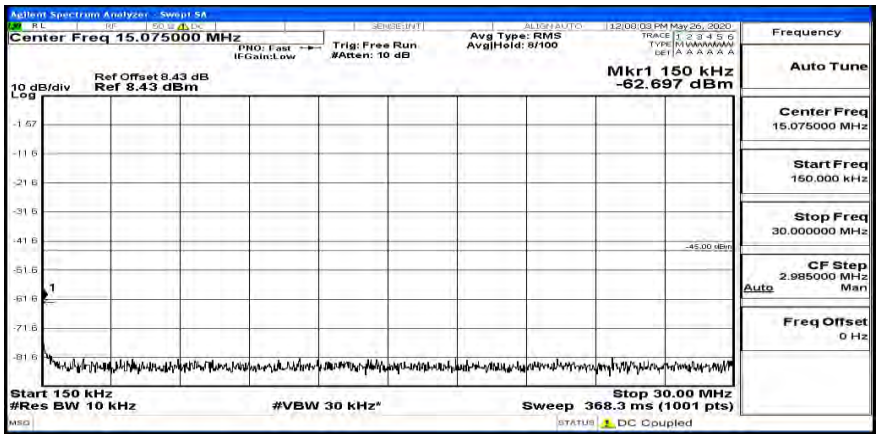
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

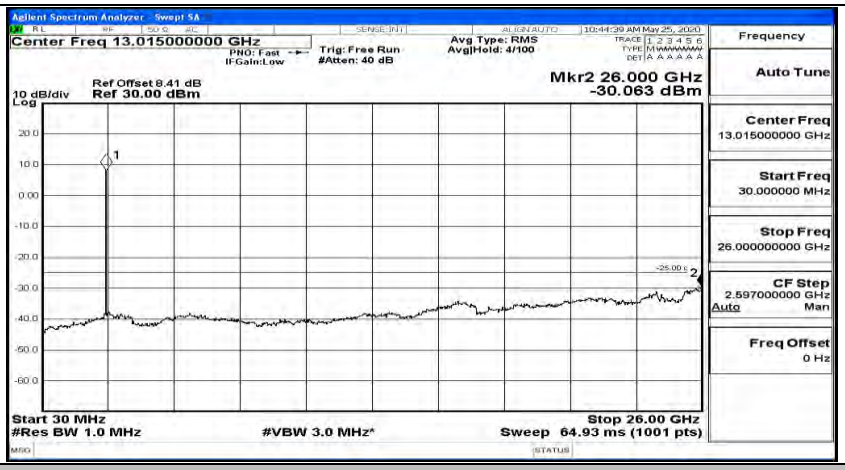


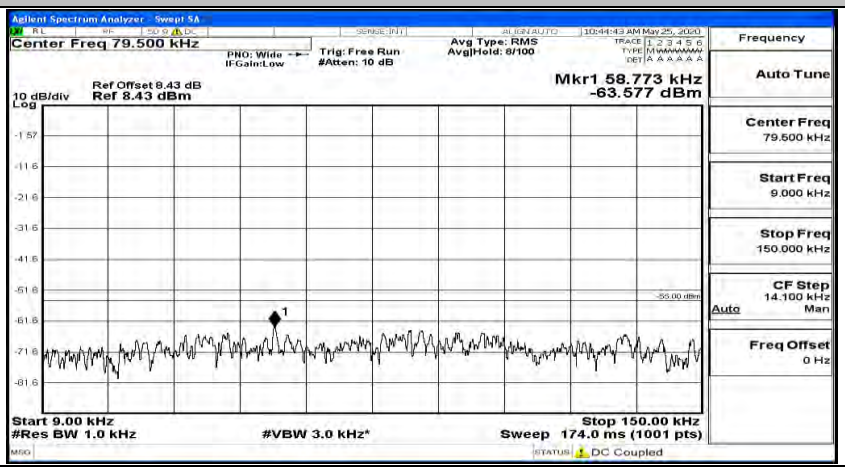
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

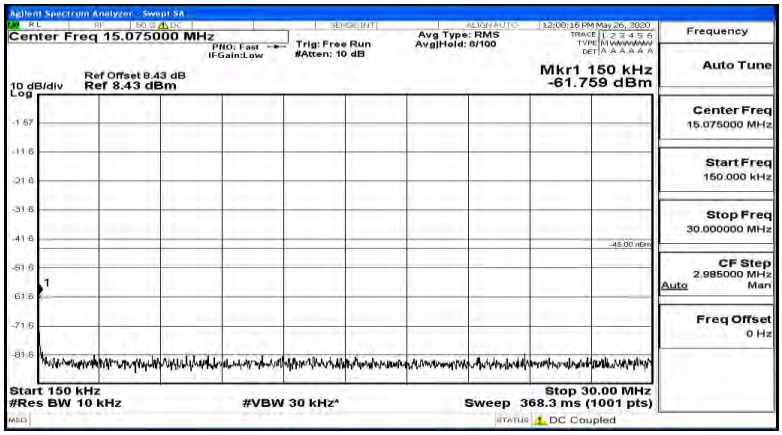


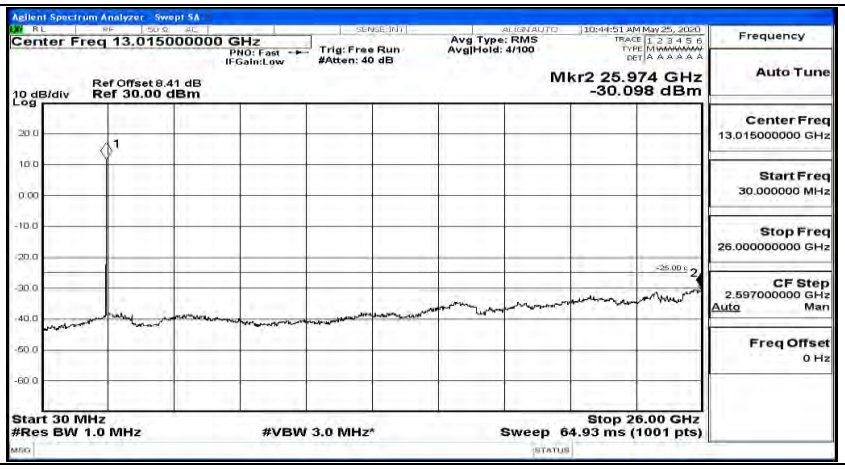


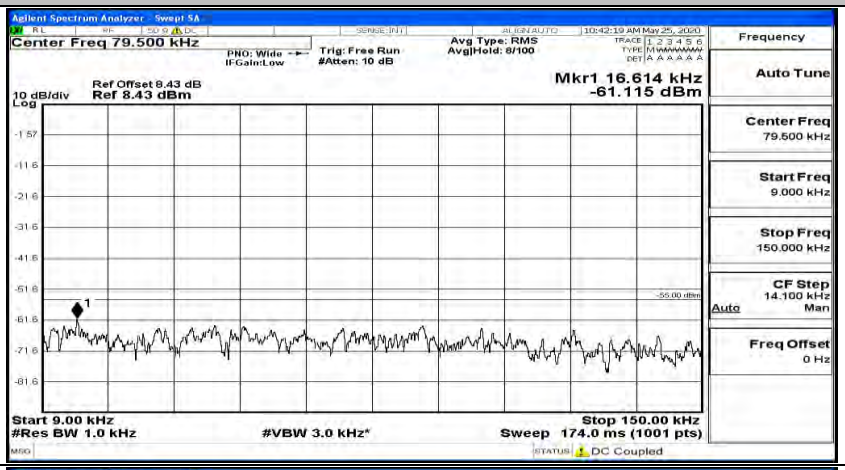

(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#74

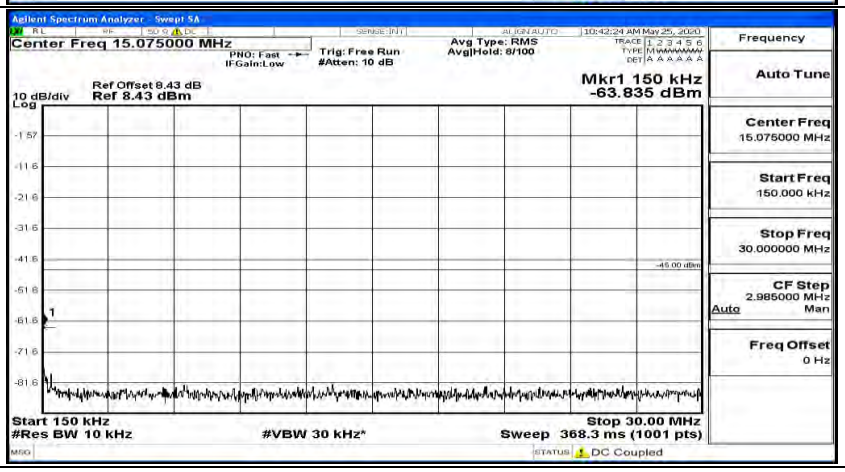


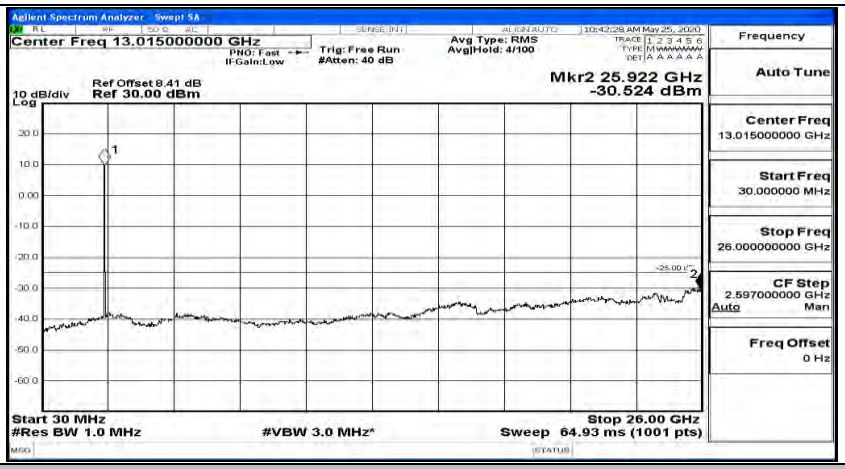





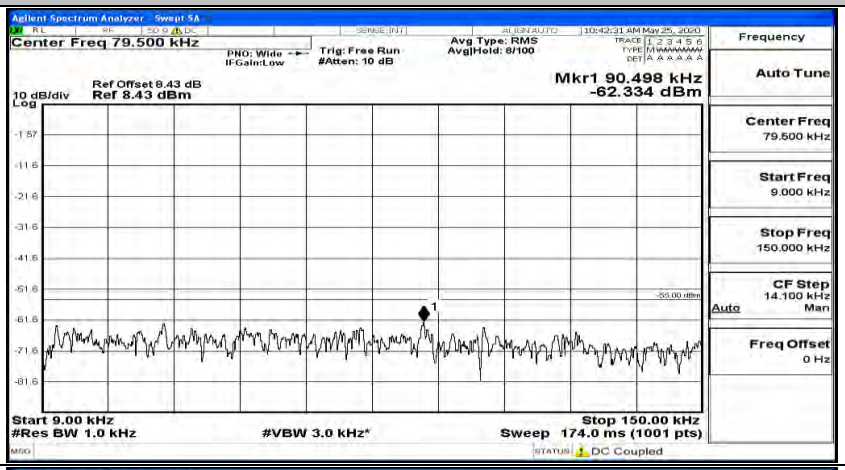

(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

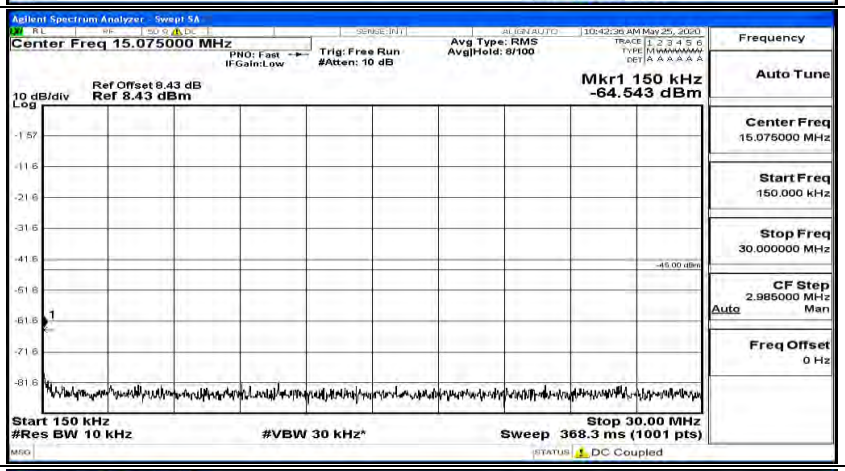


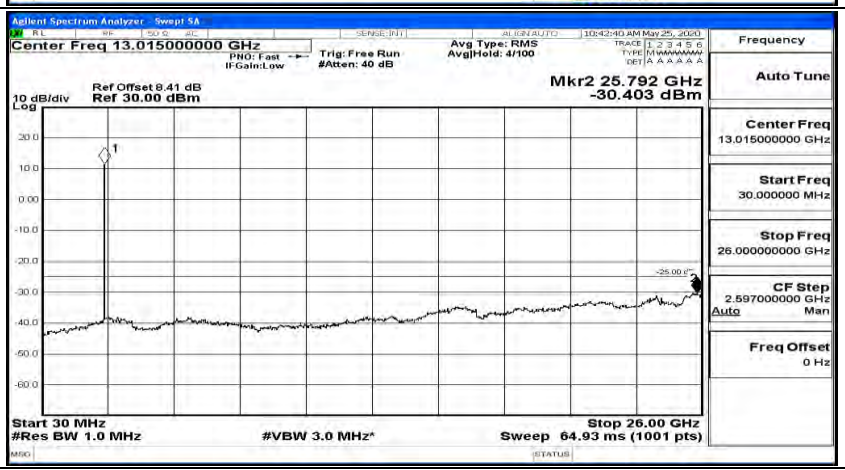





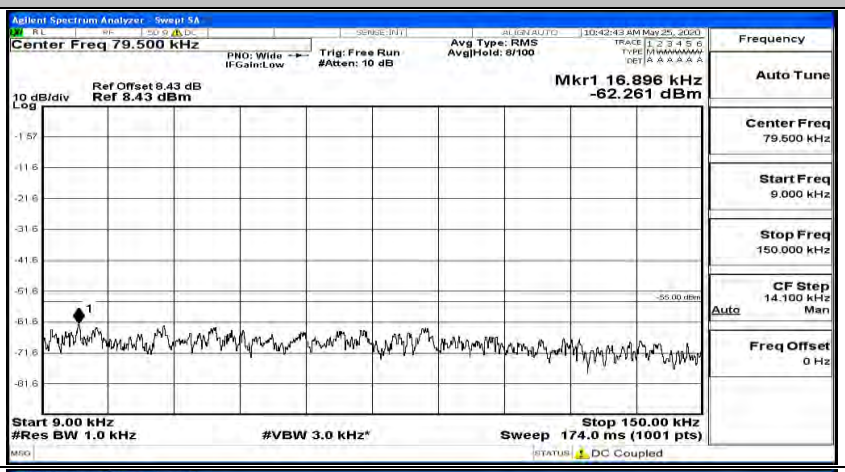

(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

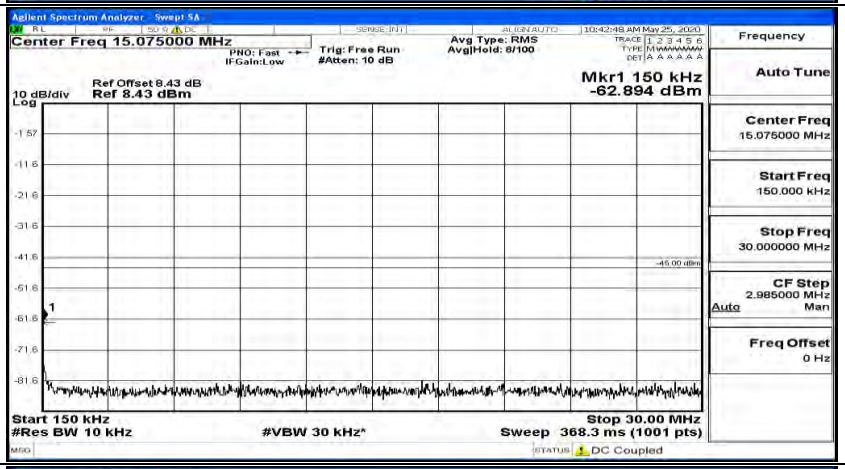


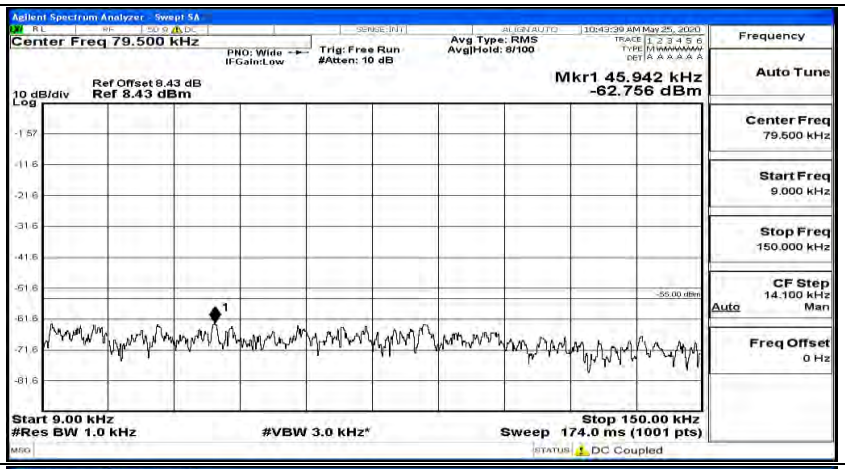



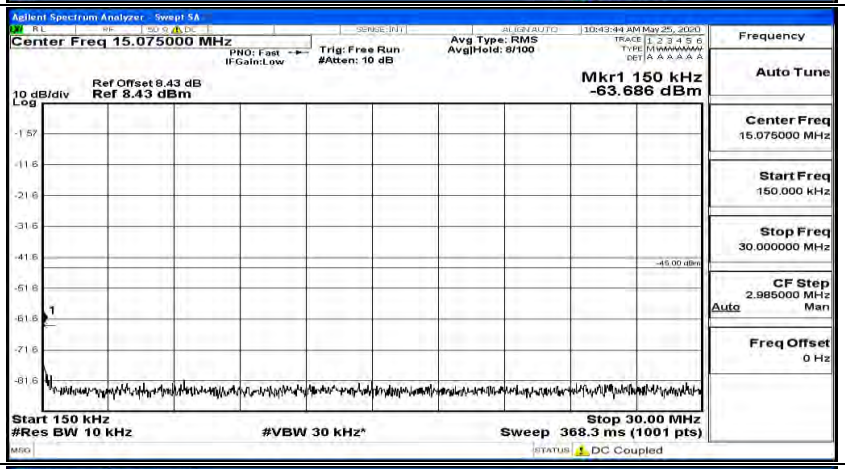
(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#74

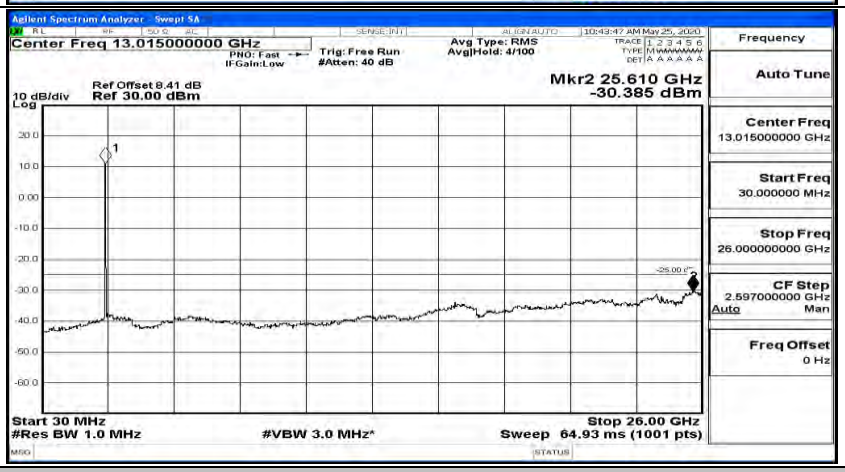


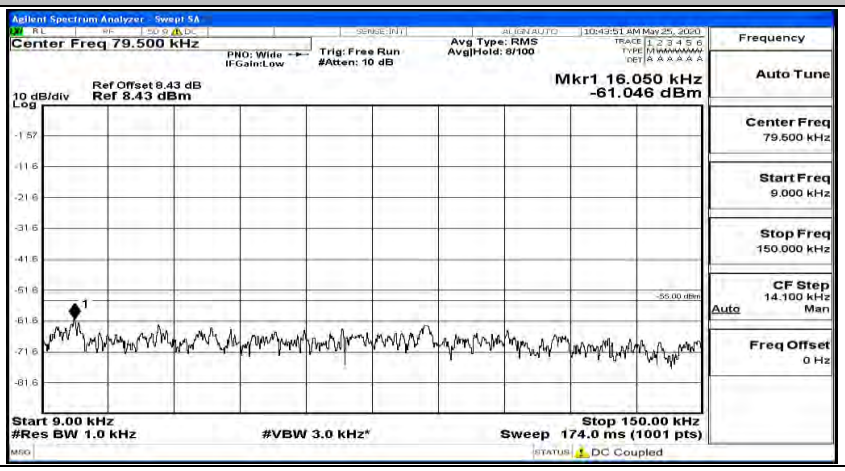



(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0




(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37