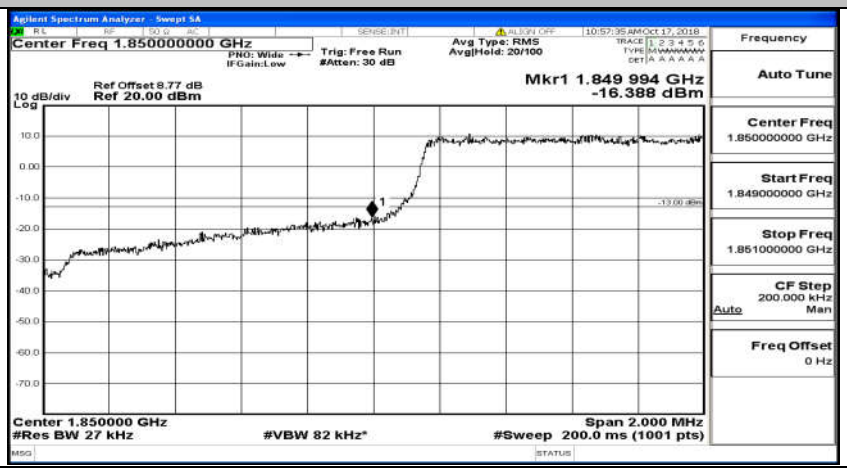
Appendix A.4: Band Edge

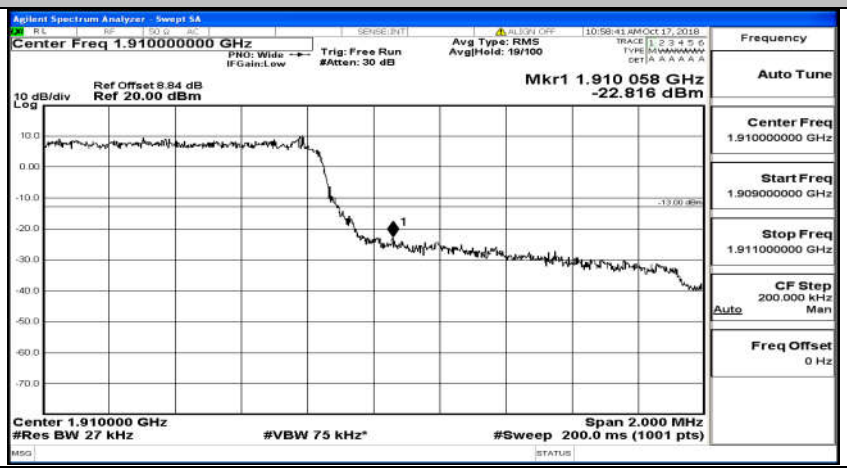
Test Graphs

Channel Bandwidth: 1.4 MHz

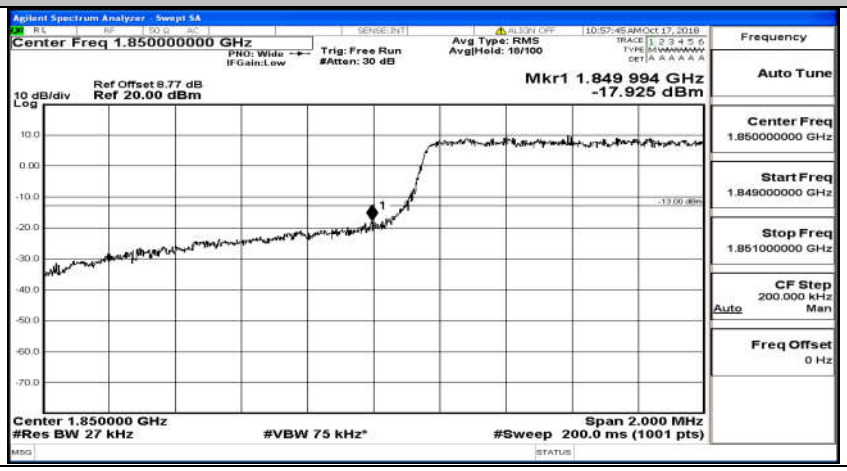
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



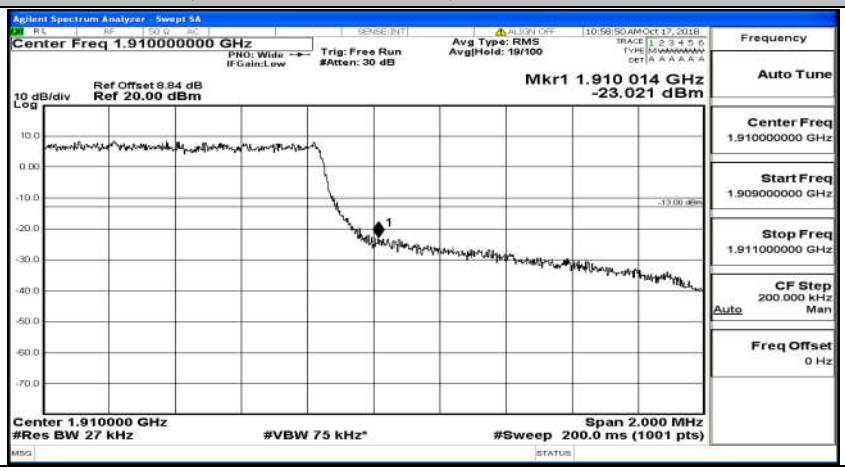
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0

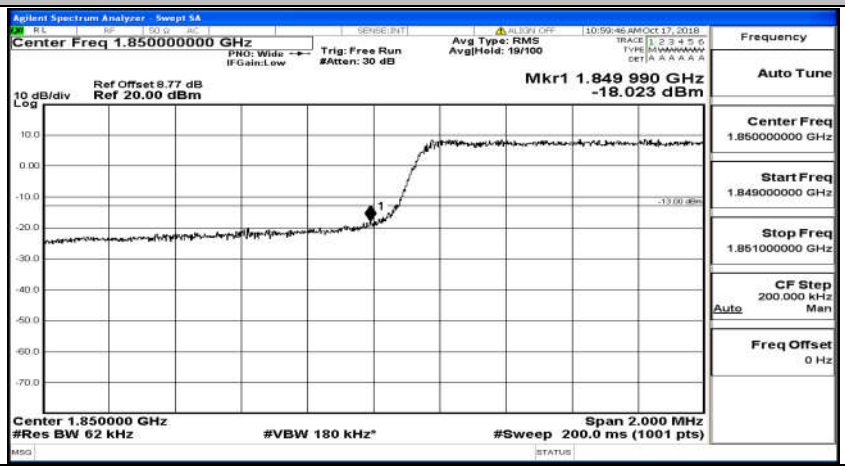


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

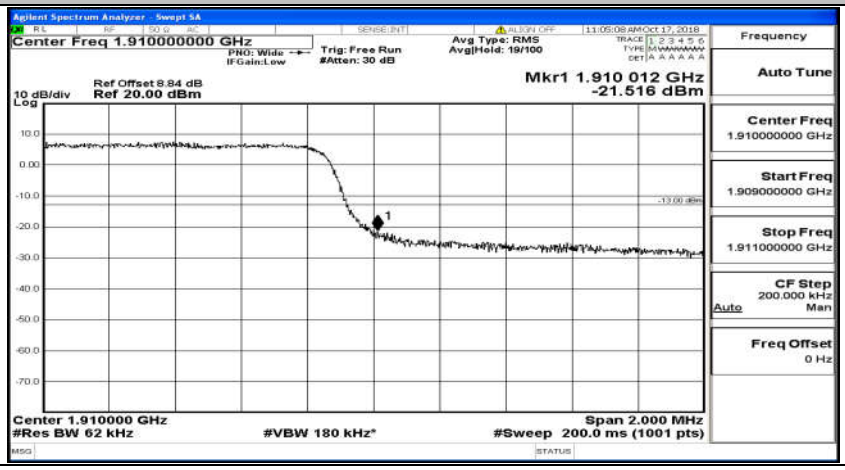


Channel Bandwidth: 3 MHz

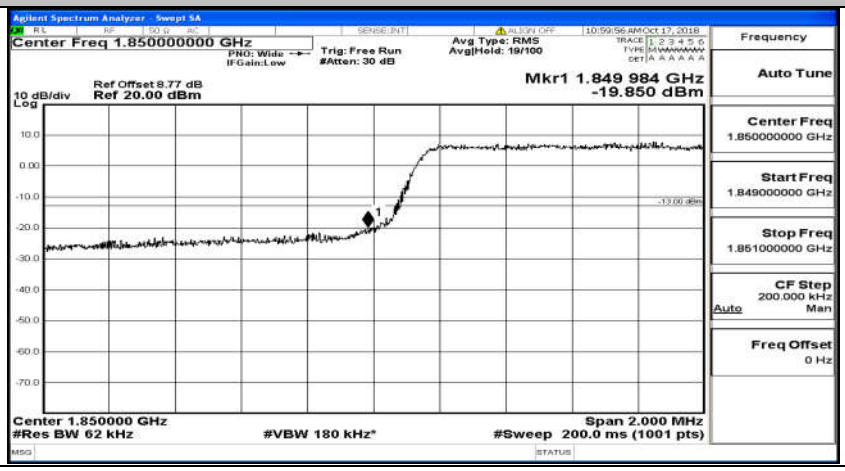
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



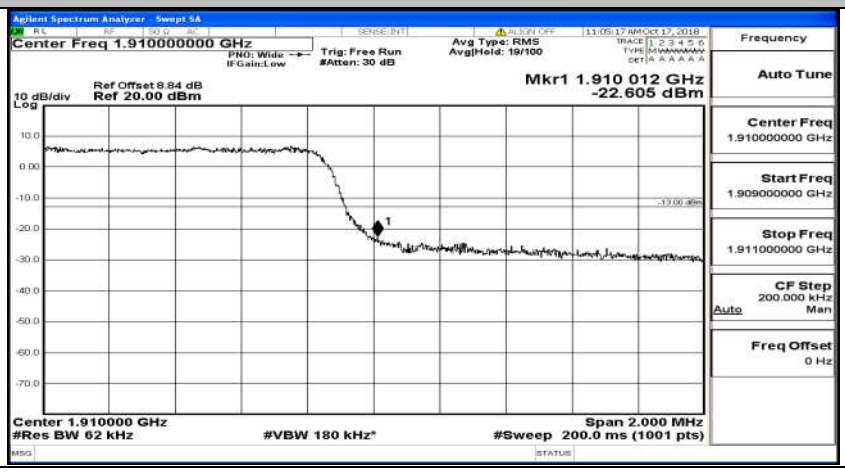
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0

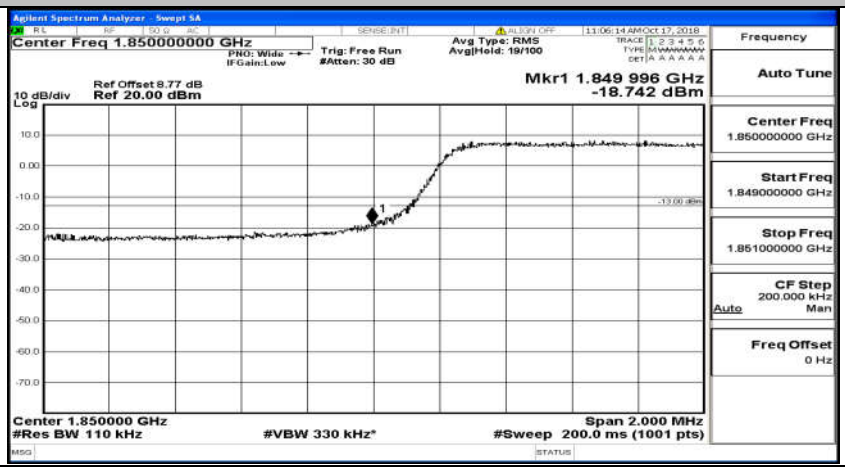


(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0

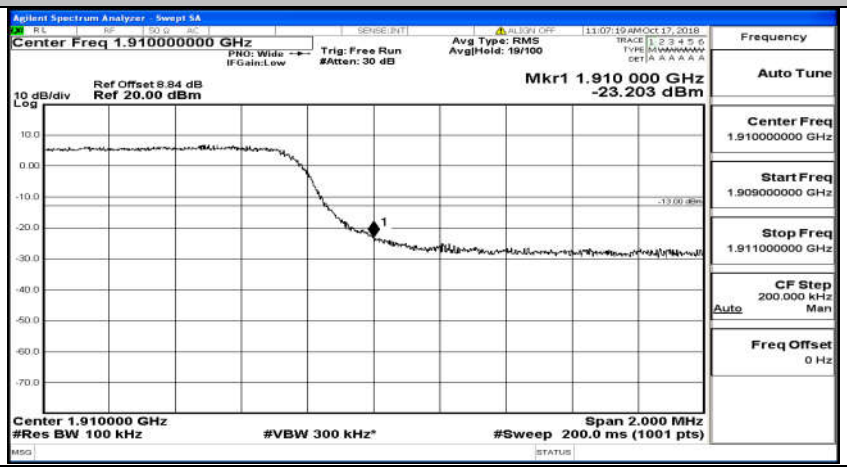


Channel Bandwidth: 5 MHz

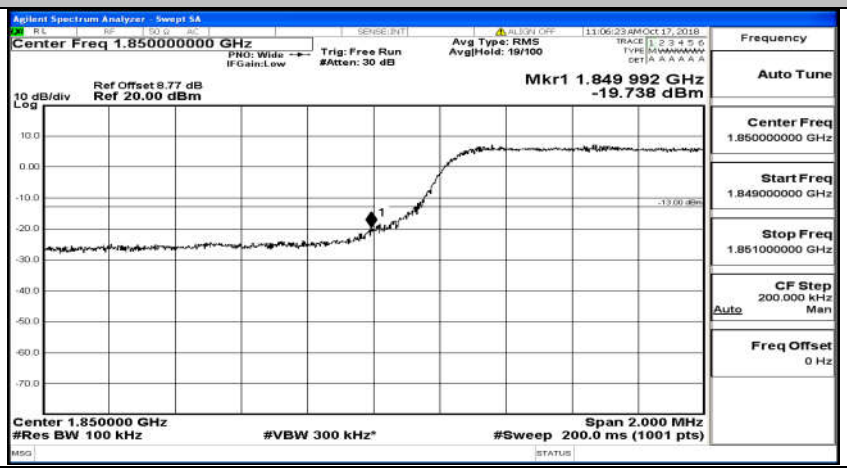
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



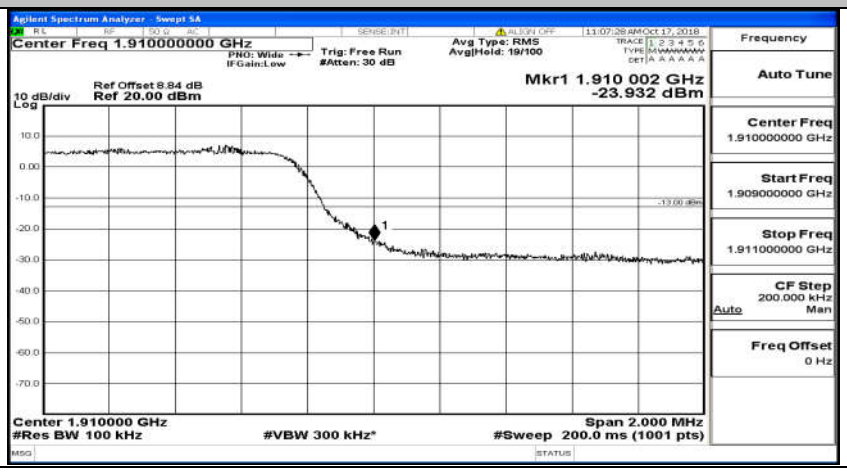
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



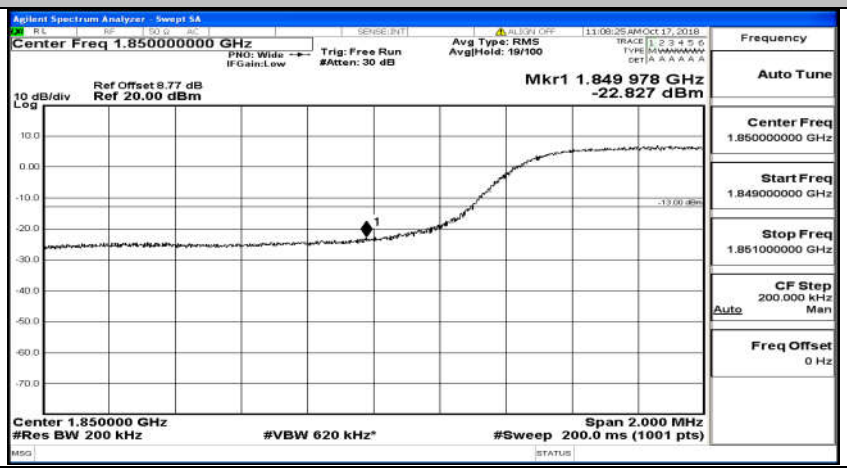
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0

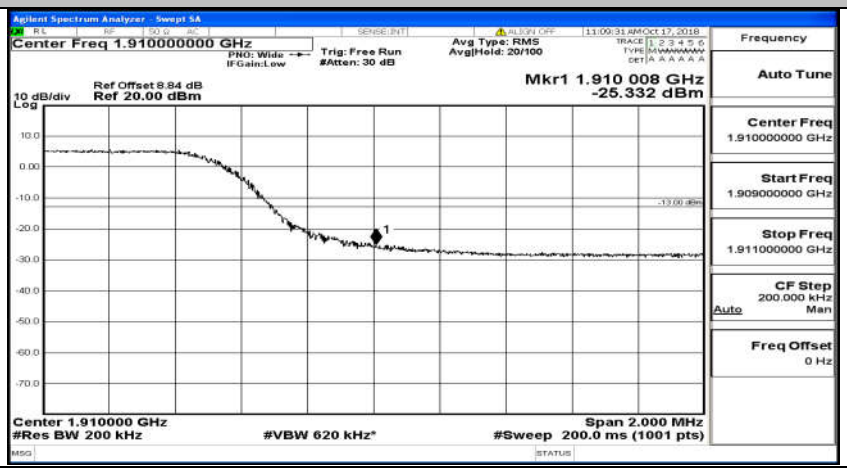


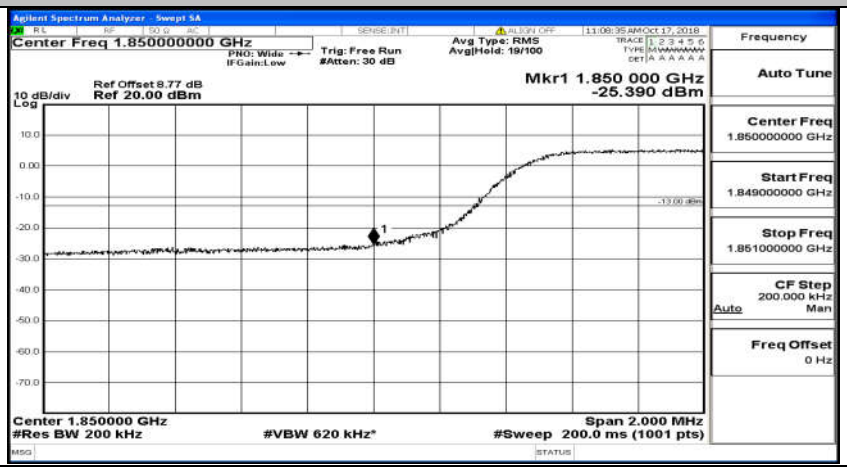
(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

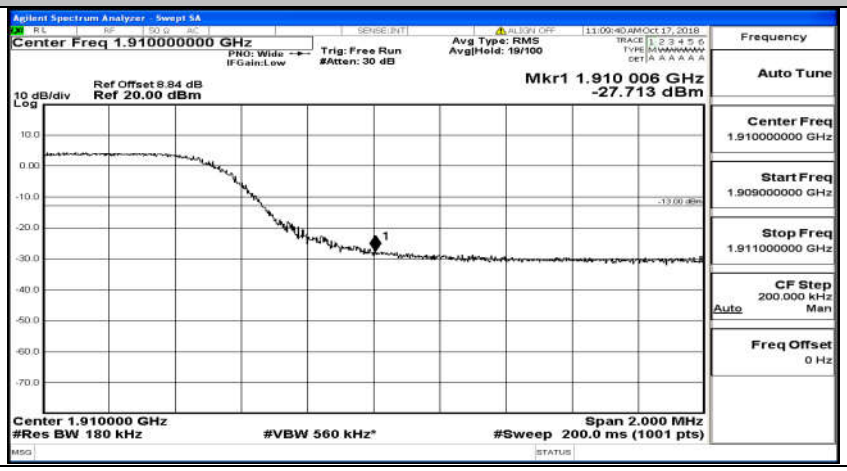


Channel Bandwidth: 10 MHz

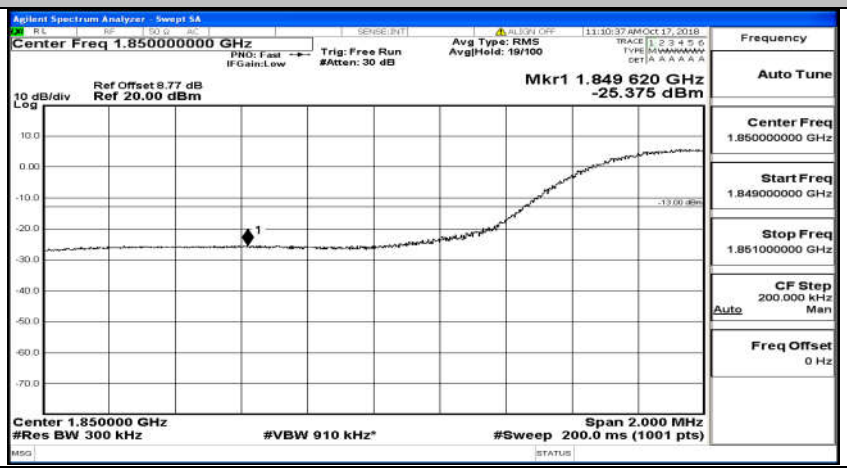
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0


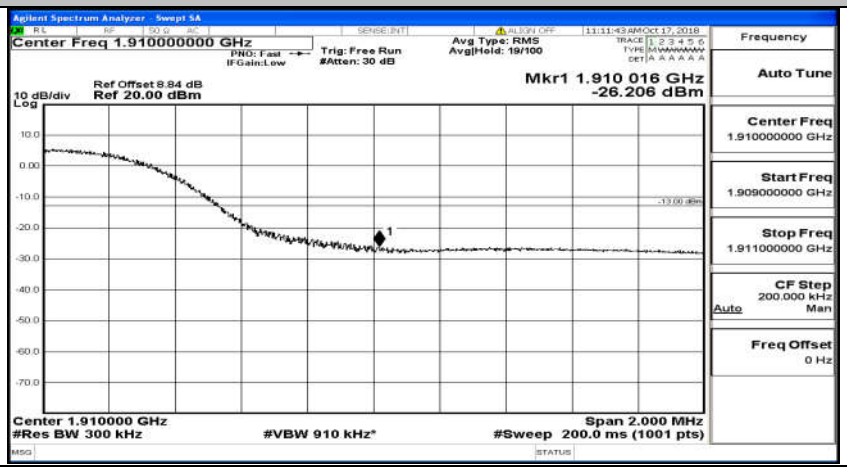
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0


Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0


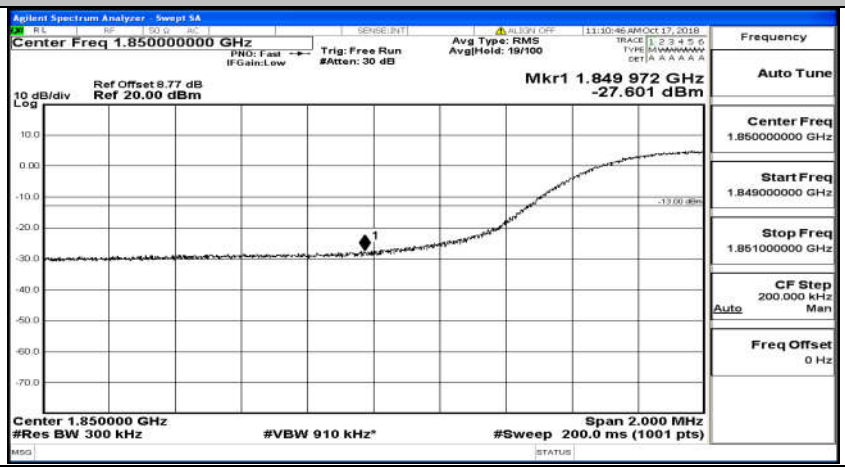
Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0


Channel Bandwidth: 15 MHz

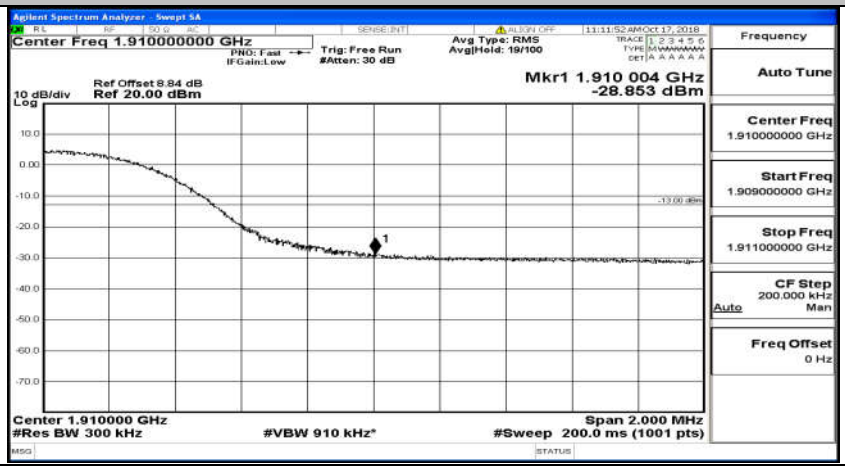
(Channel Bandwidth:15 MHz)_LCH_QPSK_75RB#0


(Channel Bandwidth:15 MHz)_HCH_QPSK_75RB#0


(Channel Bandwidth:15 MHz)_LCH_16QAM_75RB#0

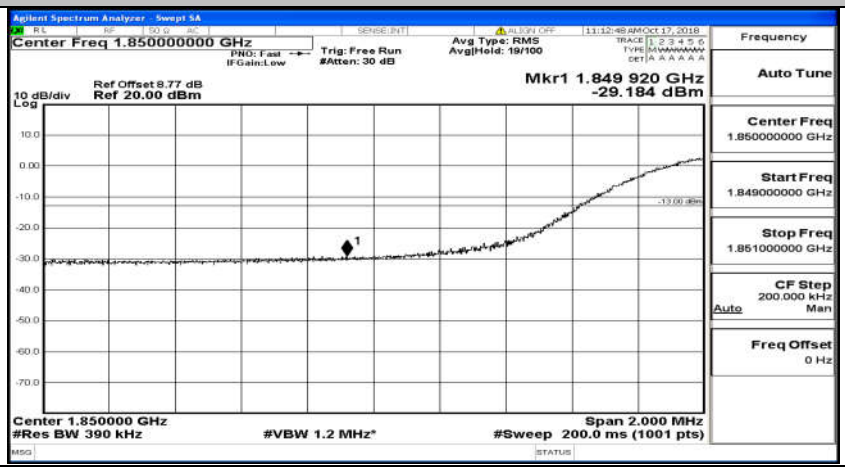


(Channel Bandwidth:15 MHz)_HCH_16QAM_75RB#0

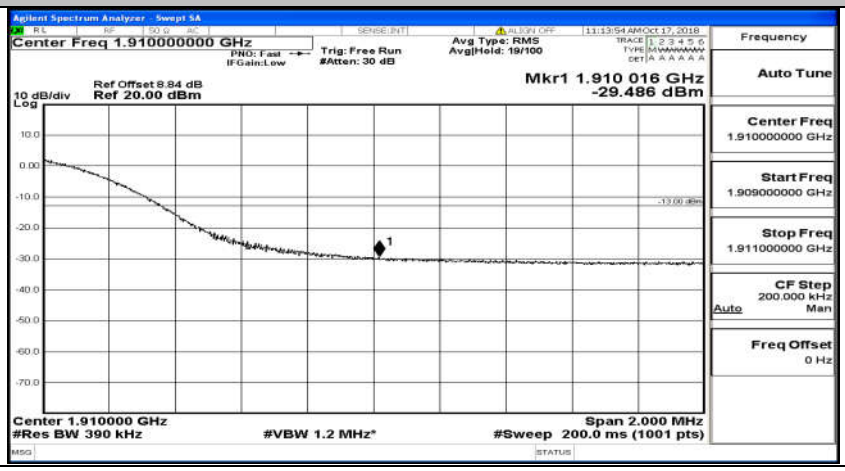


Channel Bandwidth: 20 MHz

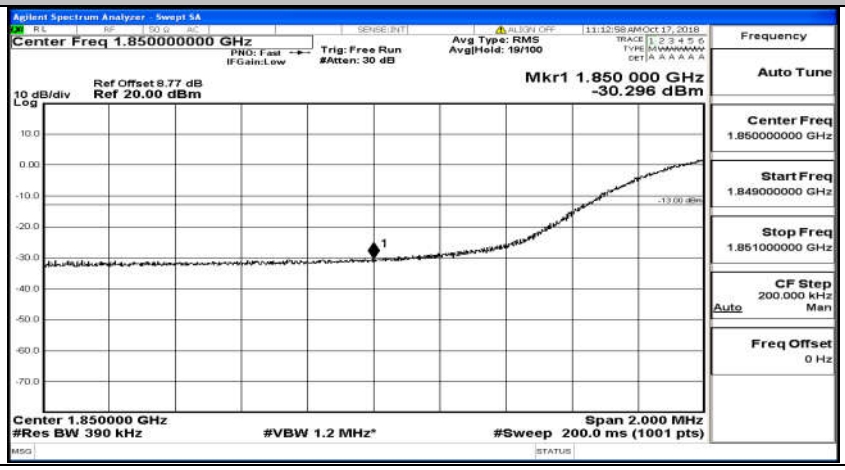
(Channel Bandwidth:20 MHz)_LCH_QPSK_100RB#0



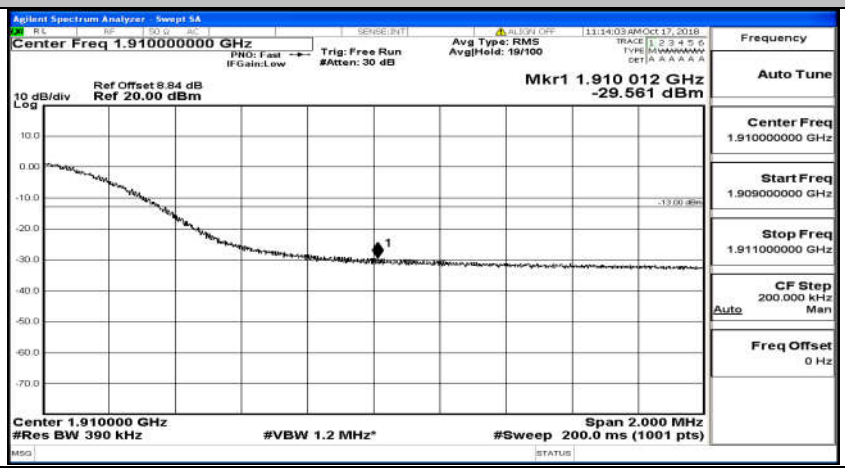
(Channel Bandwidth:20 MHz)_HCH_QPSK_100RB#0



(Channel Bandwidth:20 MHz)_LCH_16QAM_100RB#0



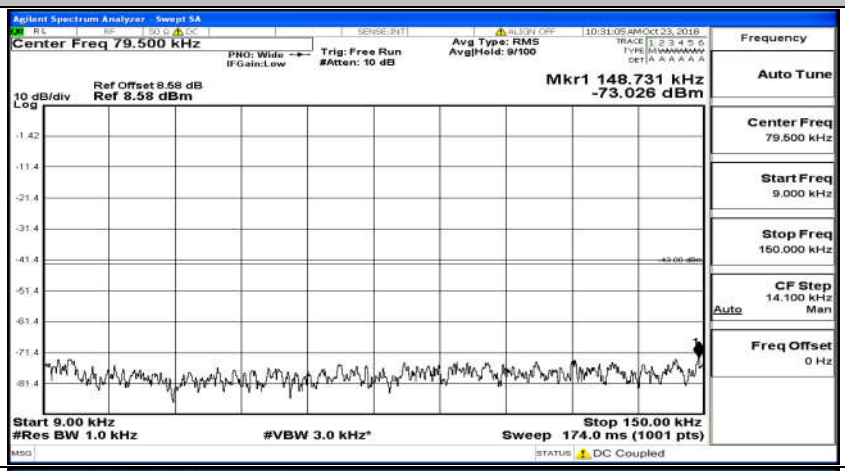
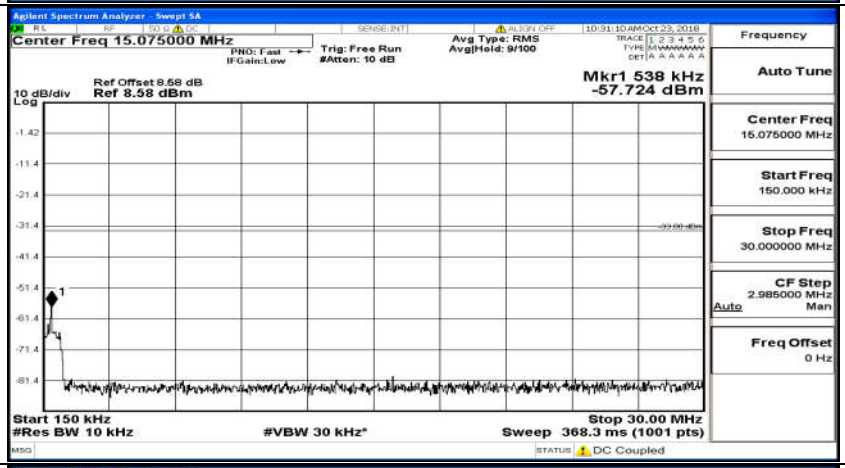
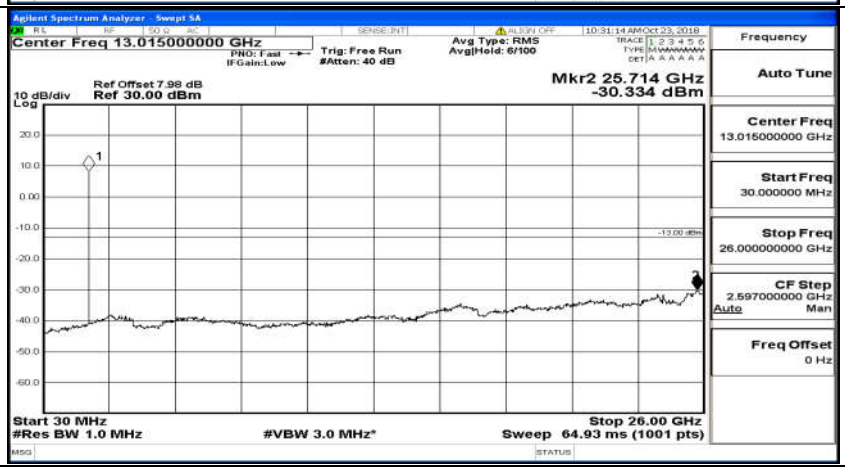
(Channel Bandwidth:20 MHz)_HCH_16QAM_100RB#0



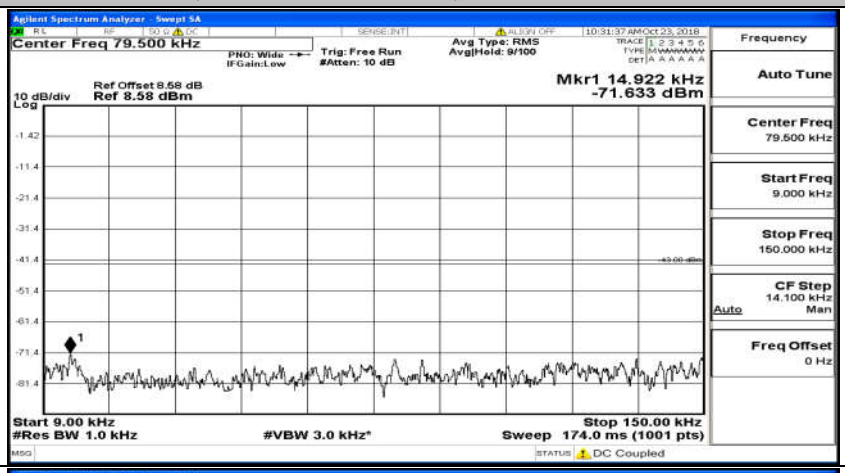
Appendix A.5: Conducted Spurious Emission

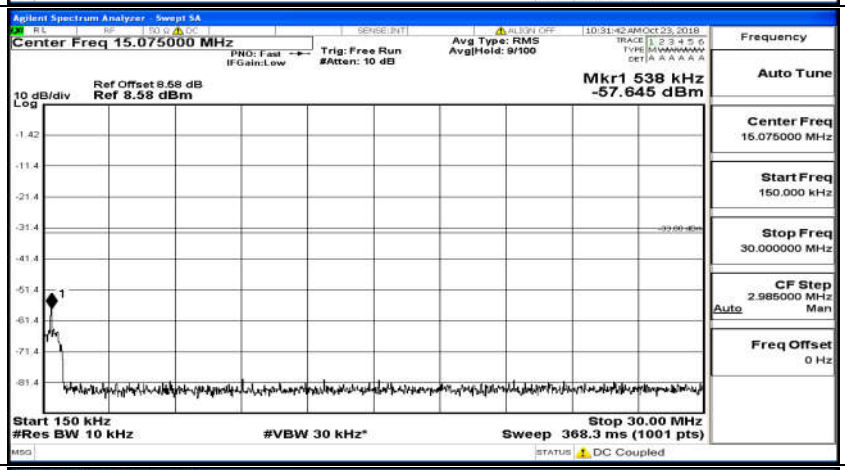
Test Graphs

Channel Bandwidth: 1.4 MHz

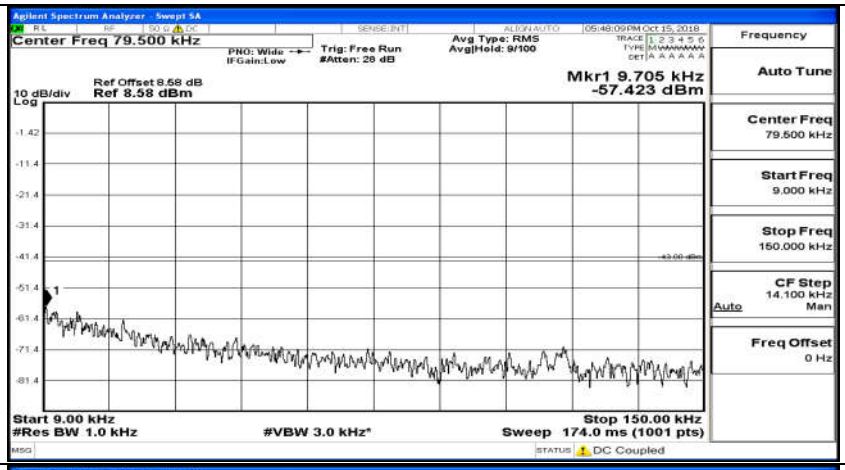
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0




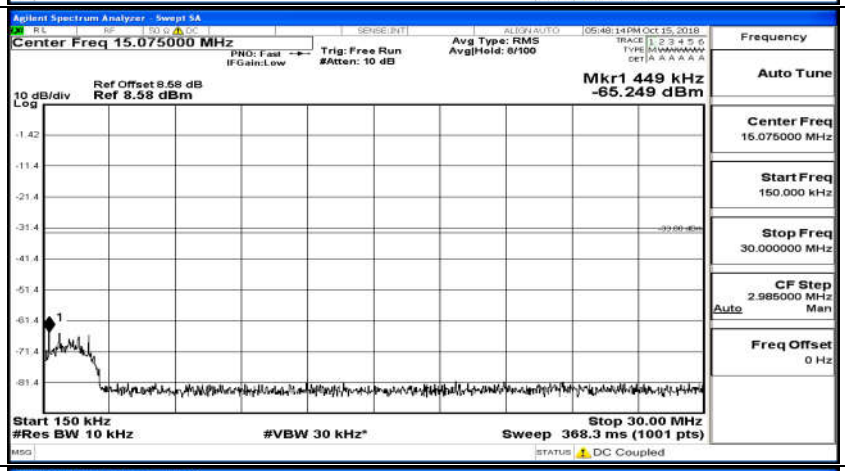
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0

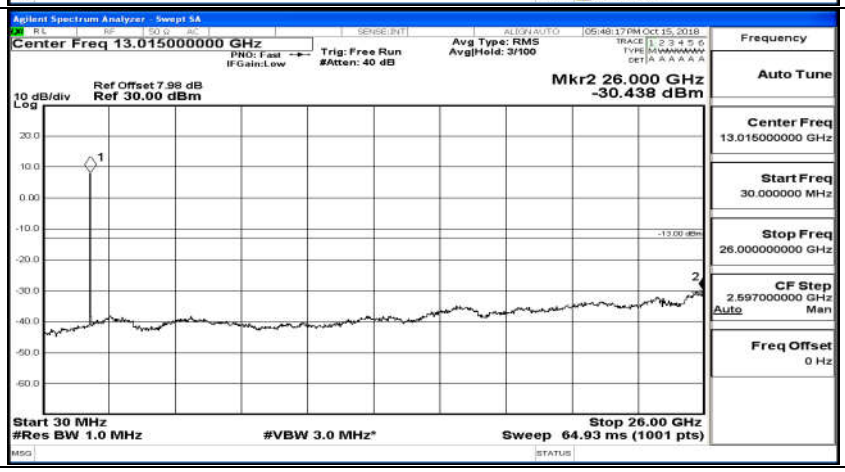




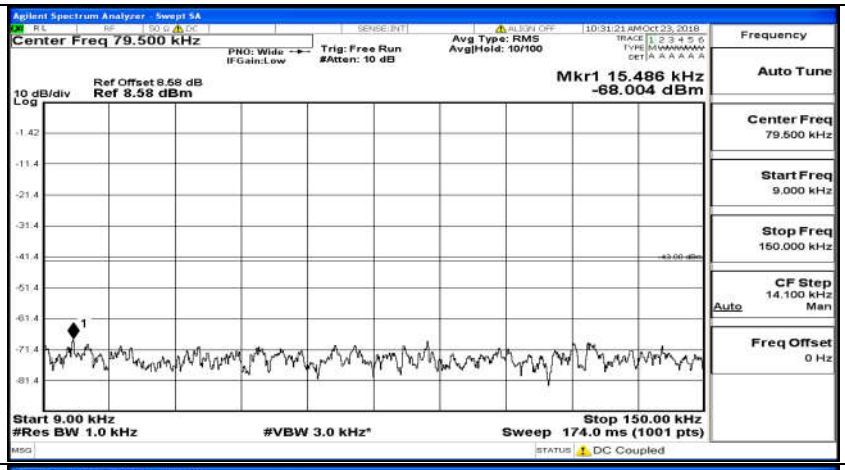
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0

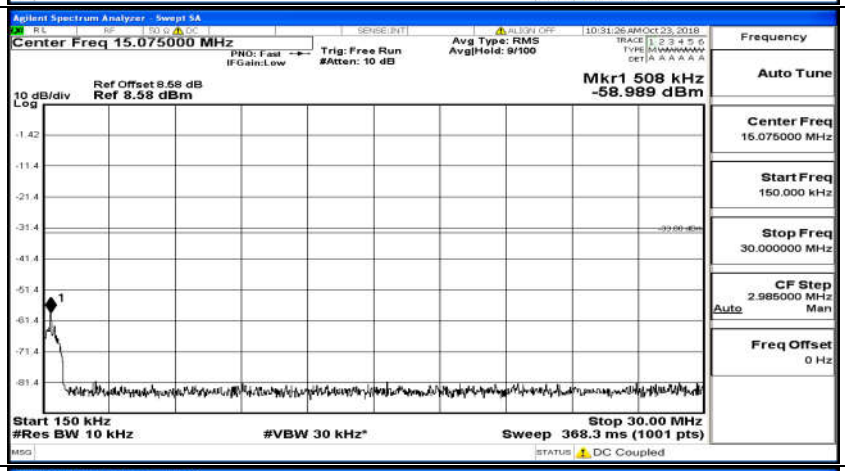


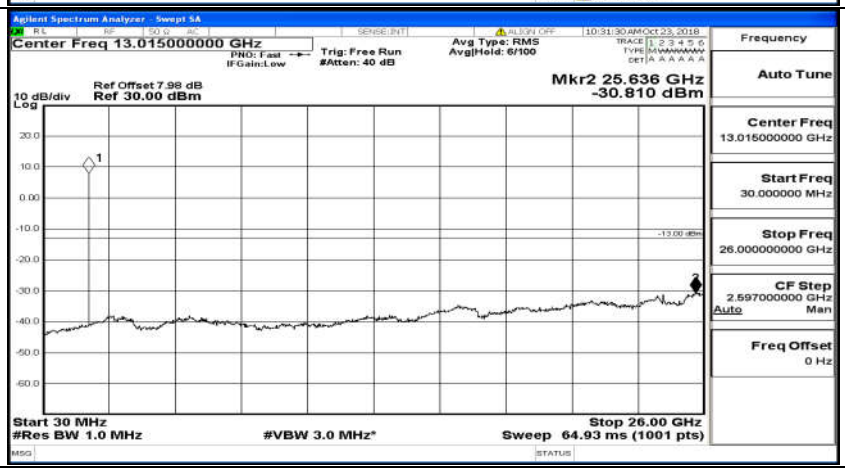




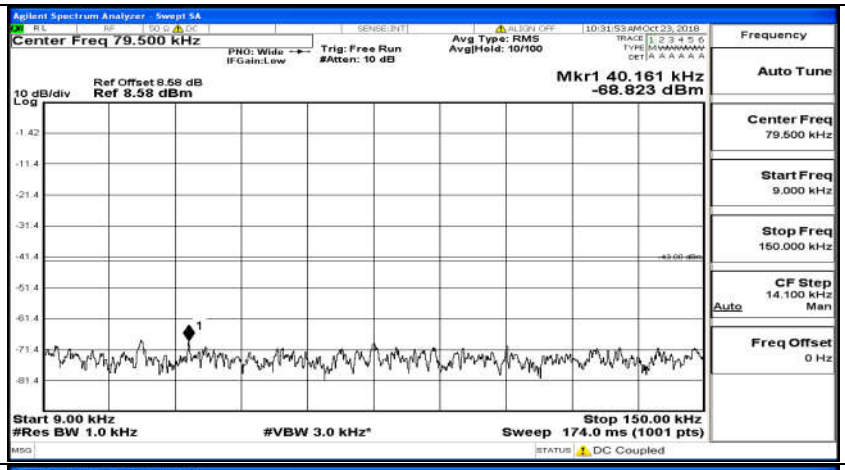
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0

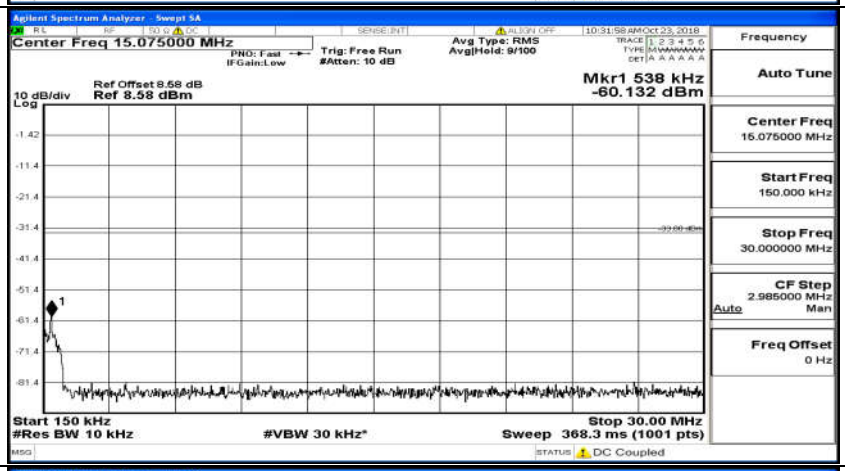




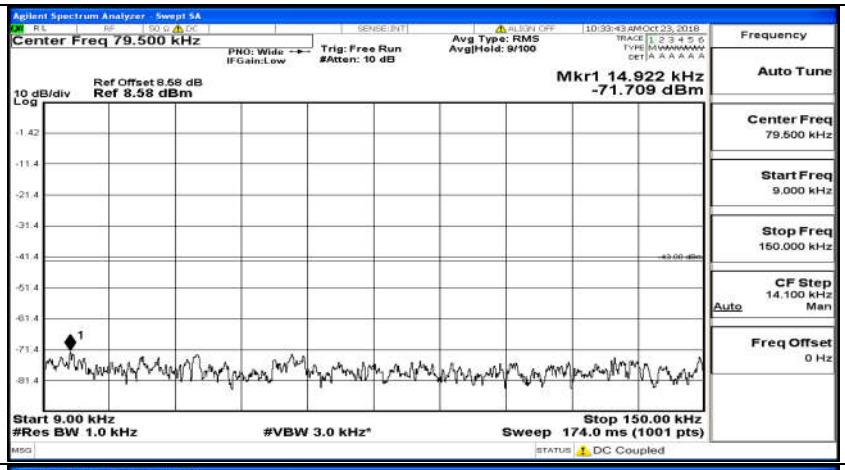


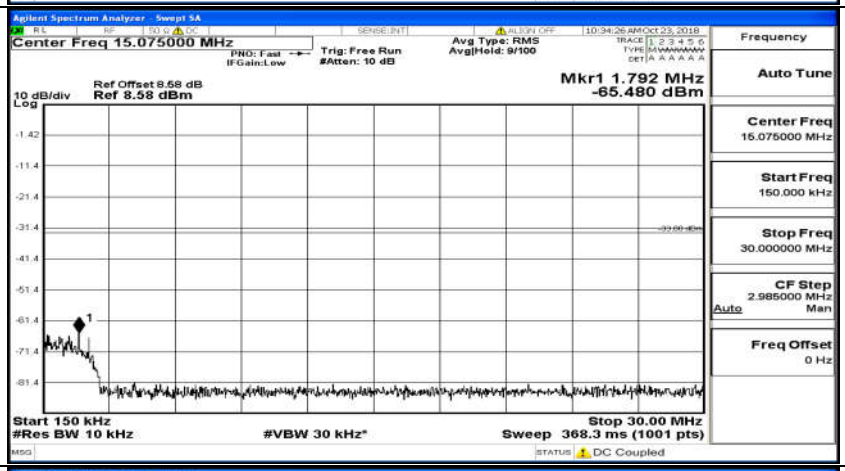
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0

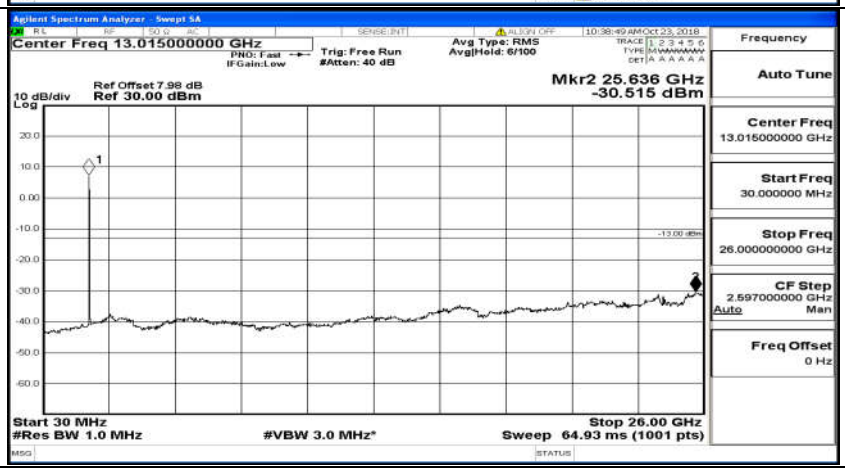




(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

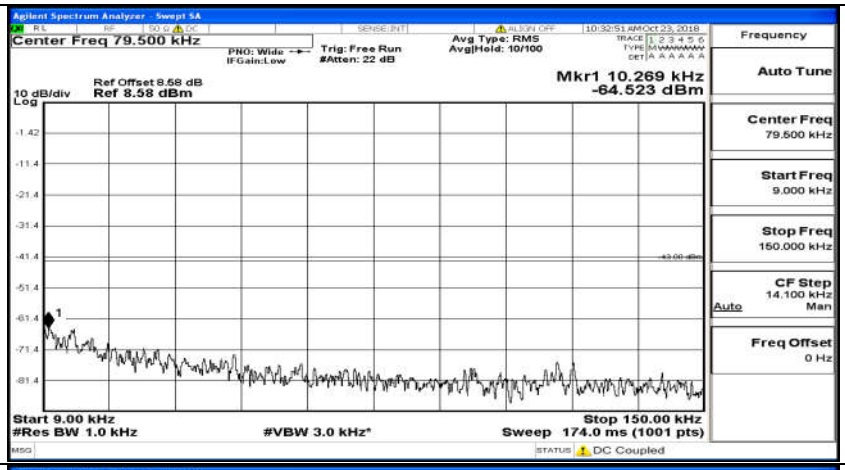


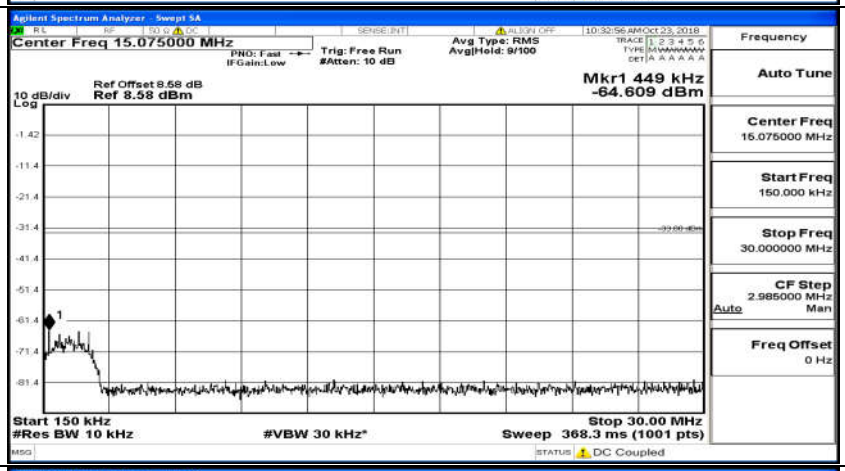


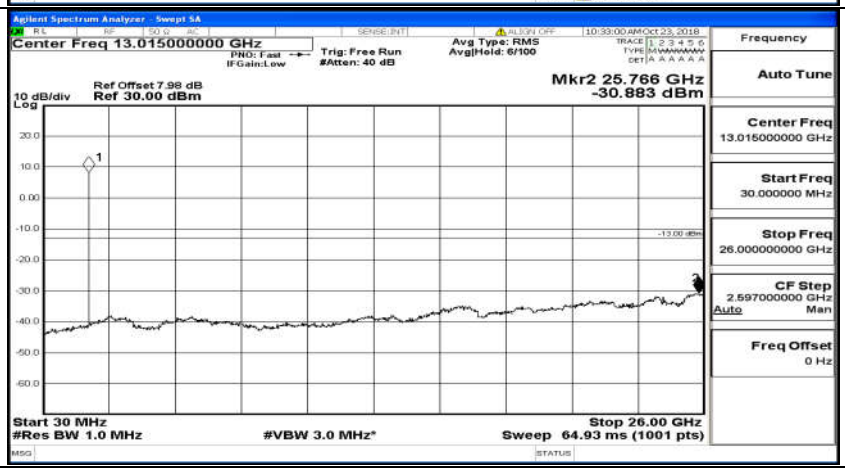


Channel Bandwidth: 3 MHz

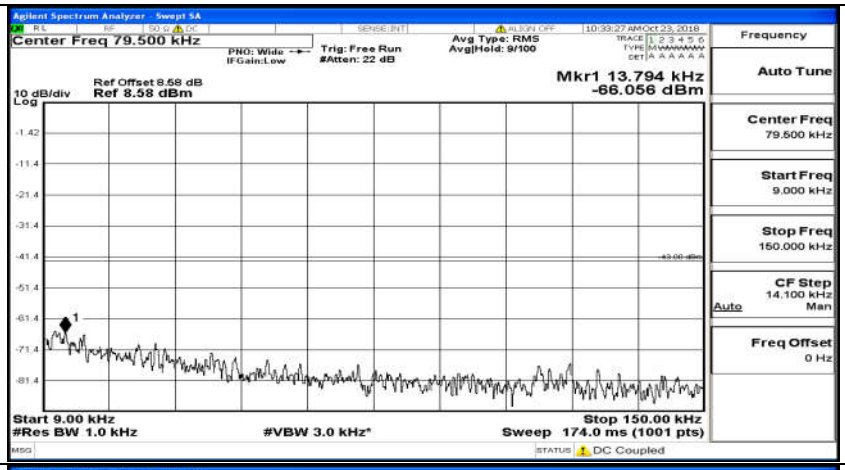
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0

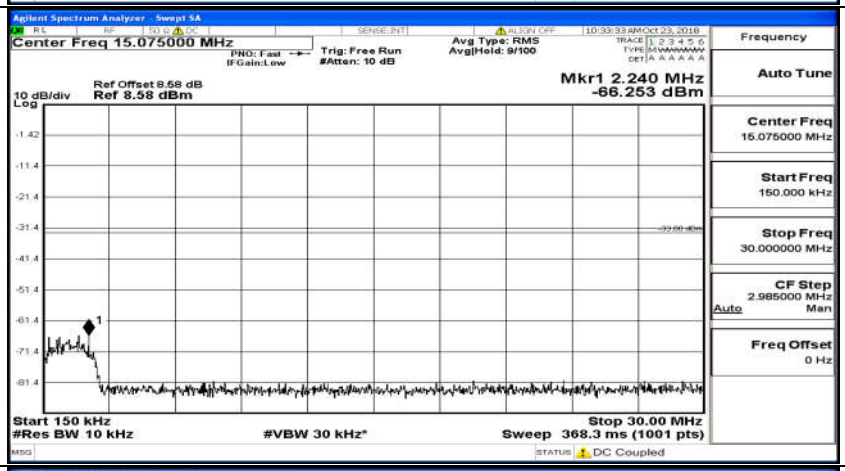


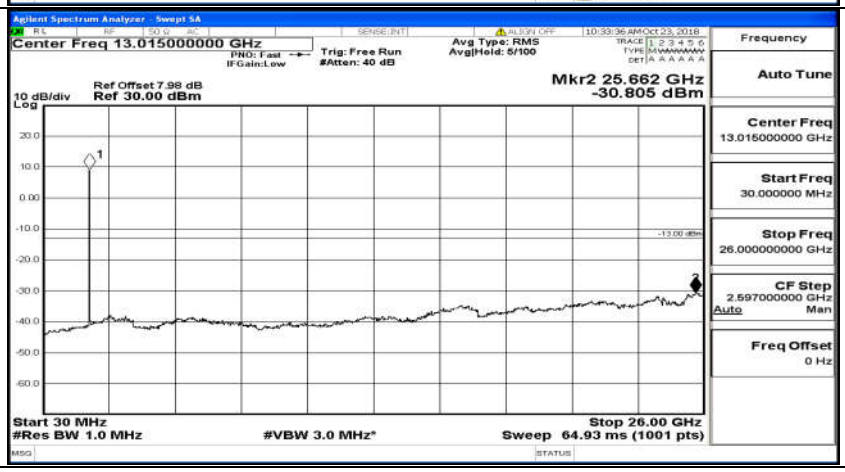


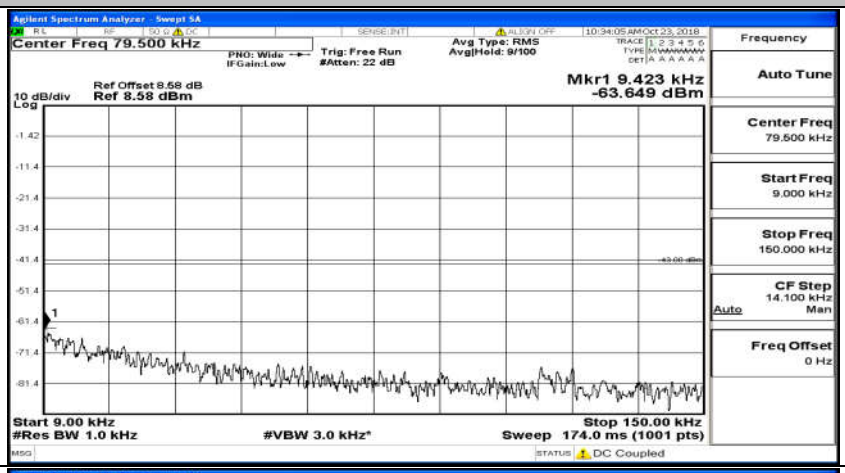
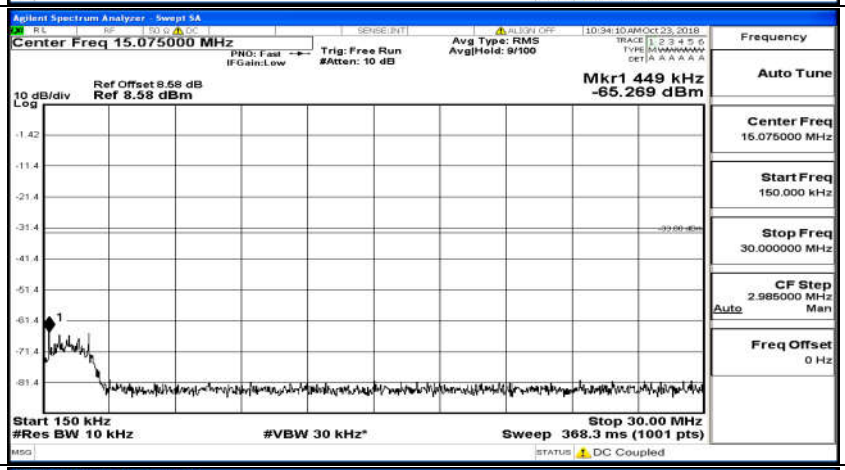
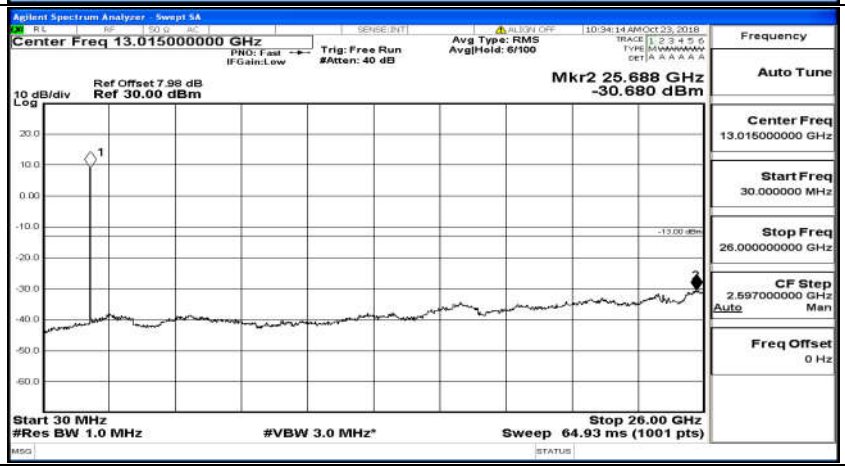


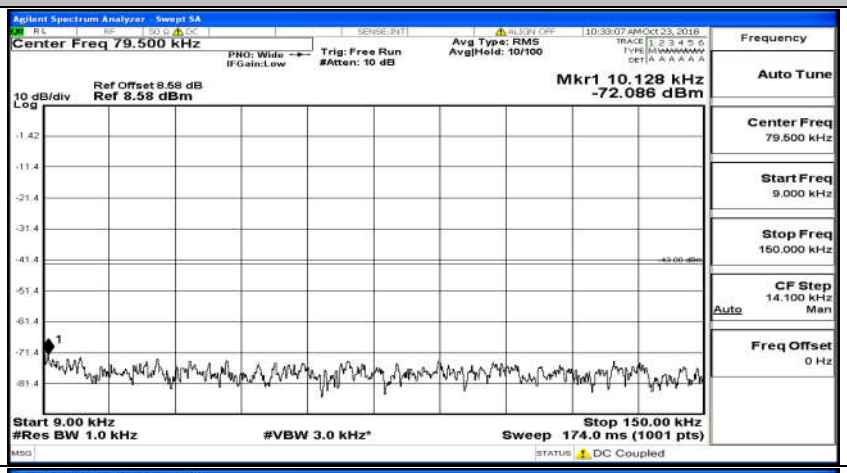
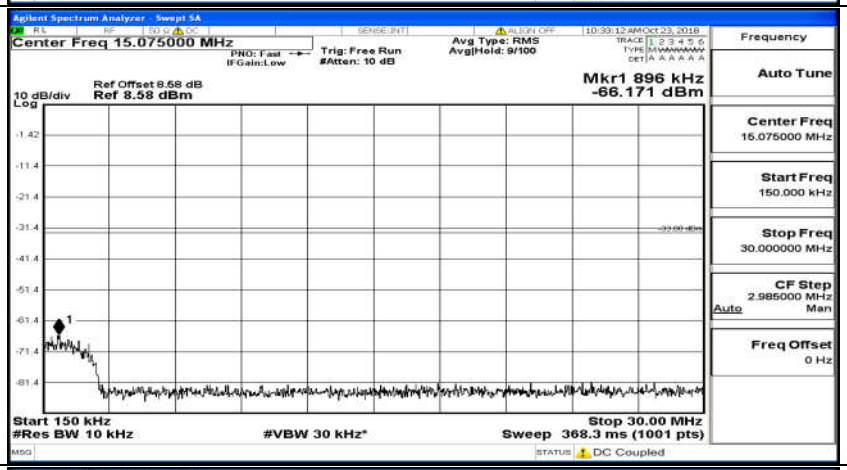
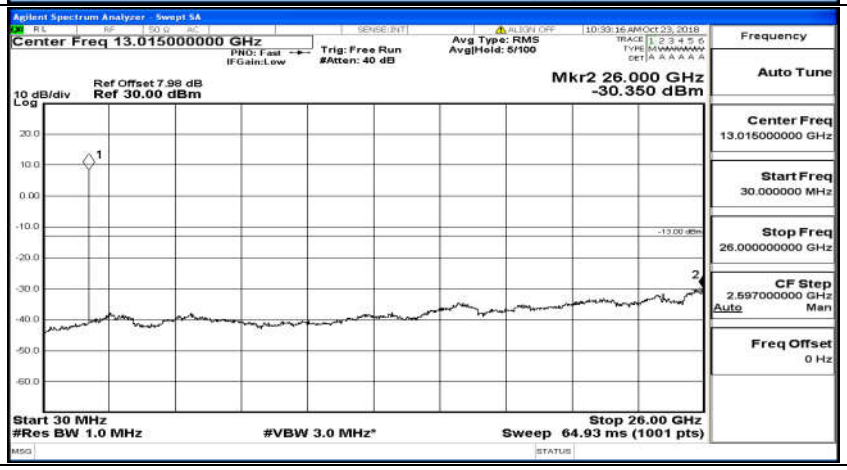
(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0

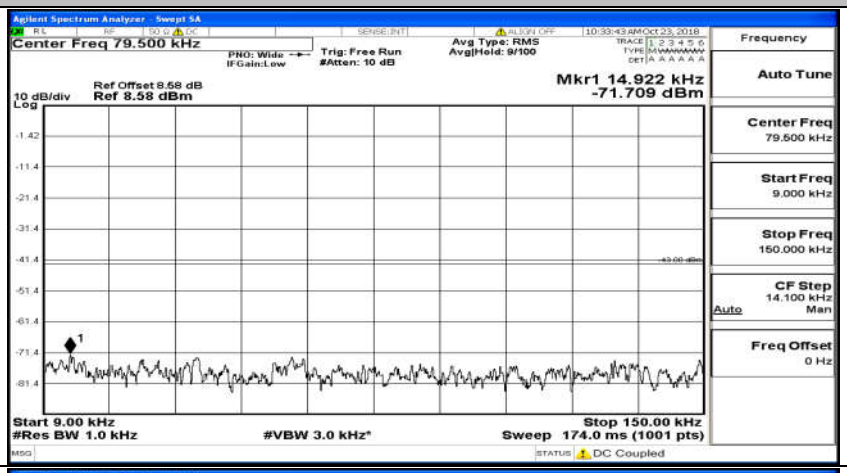
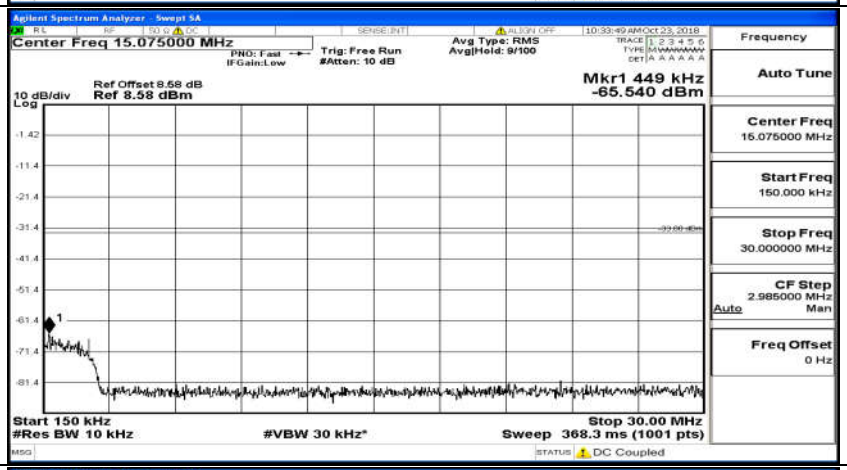
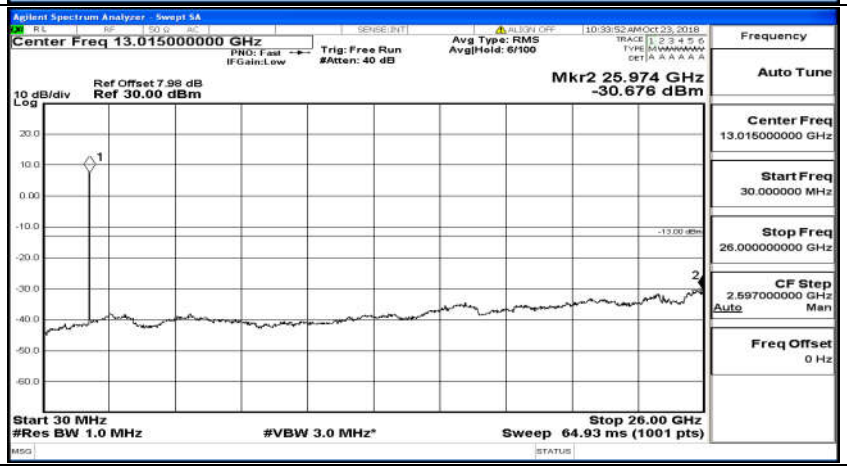

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: RMS
Avg|Hold: 9/100
10:33:27 AM Oct 23, 2018
Mkr1 13.794 kHz
-66.056 dBm
Ref Offset 8.58 dB
10 dB/div
Log
Ref 8.58 dBm
-1.42
-11.4
-21.4
-31.4
-41.4
-51.4
-61.4
-71.4
-81.4
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.0 ms (1001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 9/100
10:33:33 AM Oct 23, 2018
Mkr1 2.240 MHz
-66.253 dBm
Ref Offset 8.58 dB
10 dB/div
Log
Ref 8.58 dBm
-1.42
-11.4
-21.4
-31.4
-41.4
-51.4
-61.4
-71.4
-81.4
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

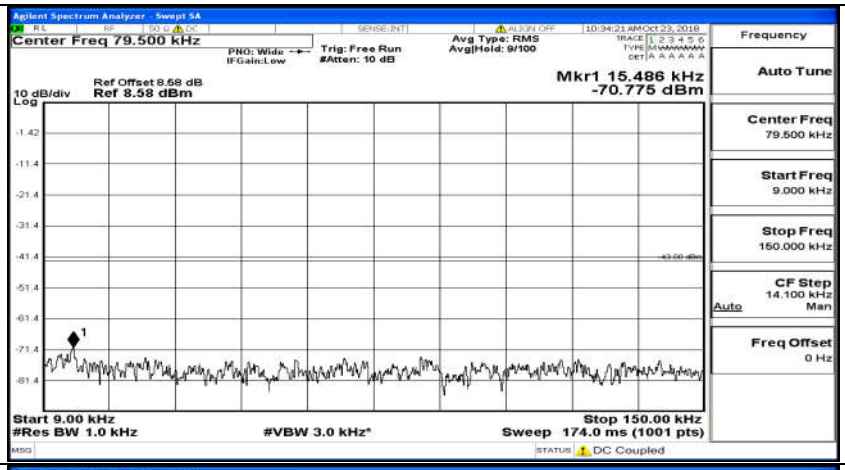

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 5/100
10:33:36 AM Oct 23, 2018
Mkr2 25.662 GHz
-30.805 dBm
Ref Offset 7.98 dB
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

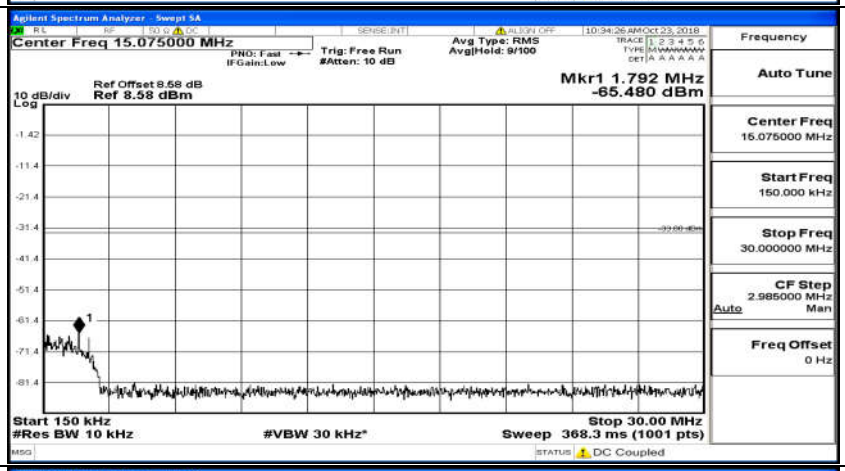
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0




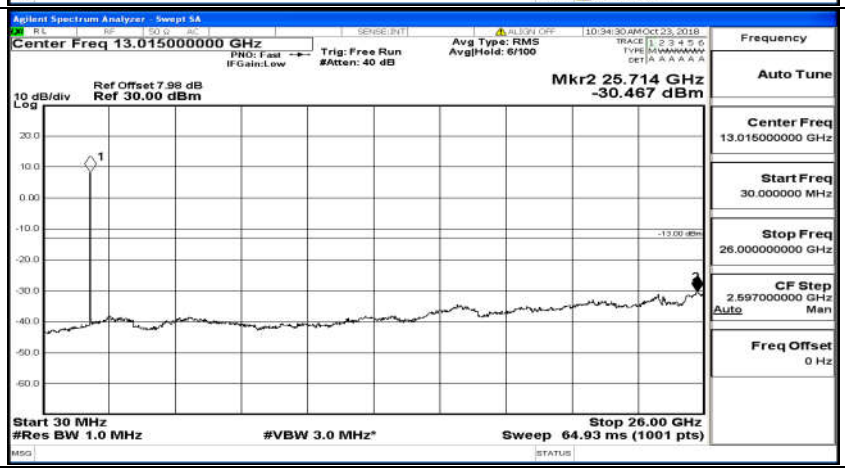
(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0




(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0




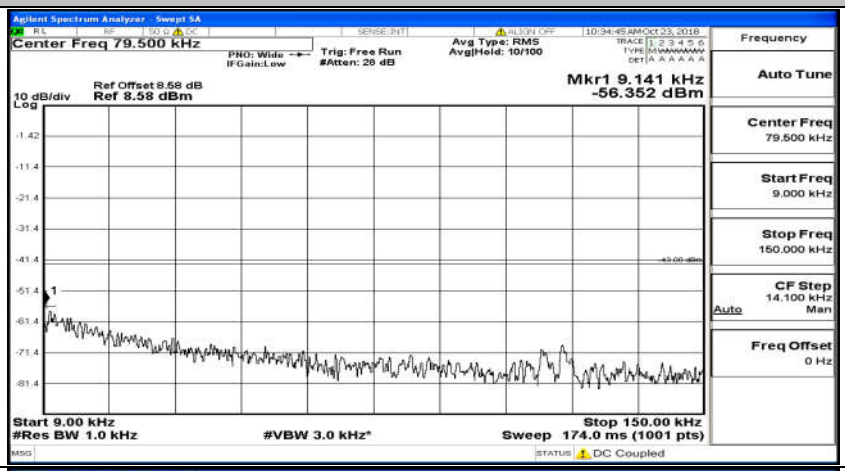
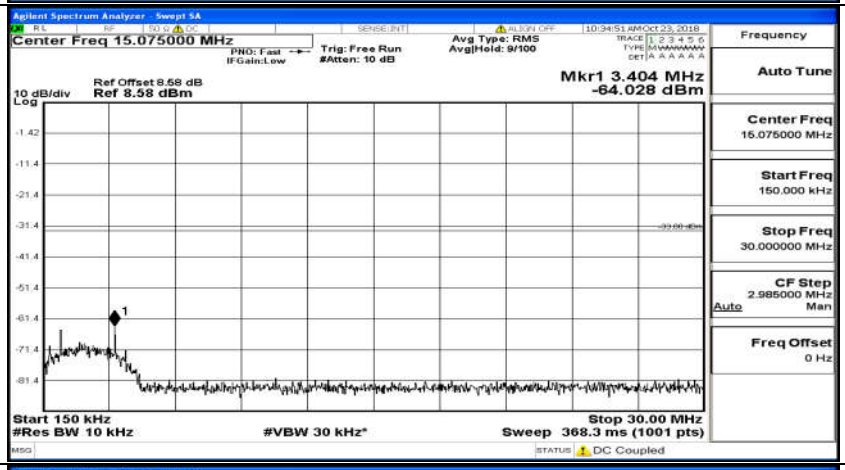
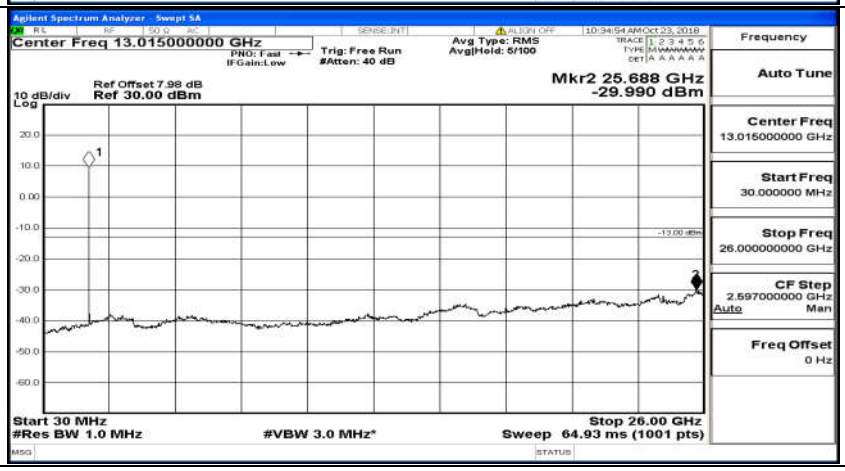
(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0


Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 9/100
10:34:21 AM Oct 23, 2018
Mkr1 15.486 kHz
-70.775 dBm
Ref Offset 8.58 dB
10 dB/div
Log
Ref 8.58 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.0 ms (1001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

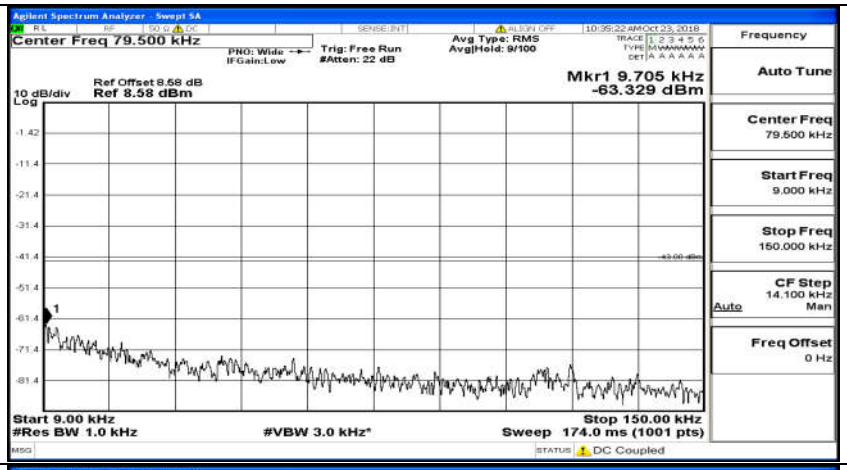

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 9/100
10:34:26 AM Oct 23, 2018
Mkr1 1.792 MHz
-65.480 dBm
Ref Offset 8.58 dB
10 dB/div
Log
Ref 8.58 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

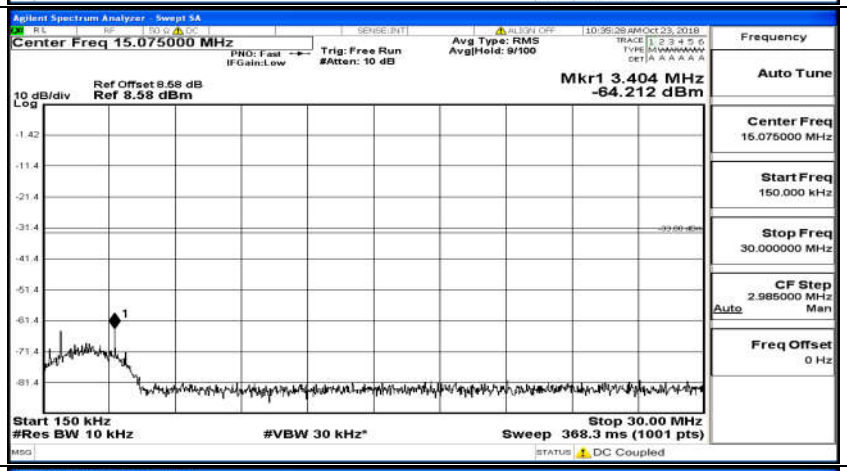

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 6/100
10:34:30 AM Oct 23, 2018
Mkr2 25.714 GHz
-30.467 dBm
Ref Offset 7.98 dB
10 dB/div
Log
Ref 30.00 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

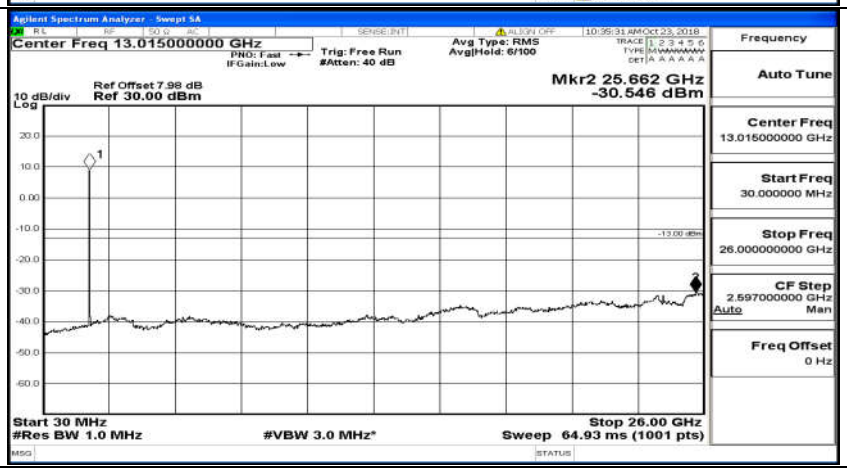
Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0




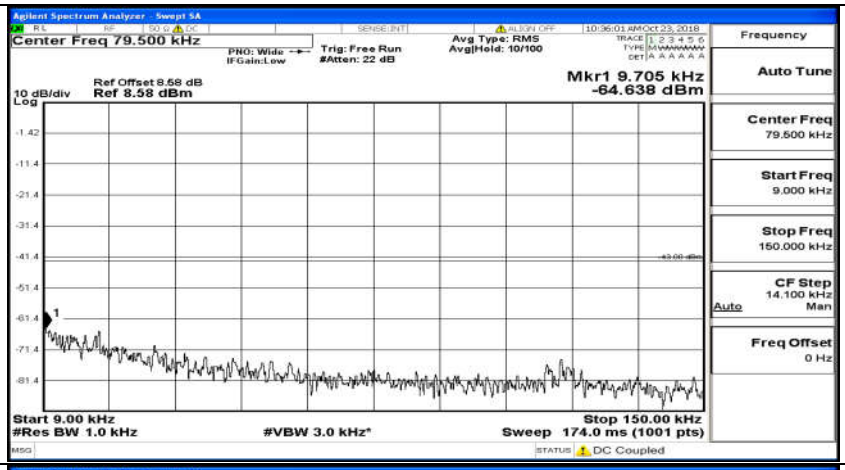
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0

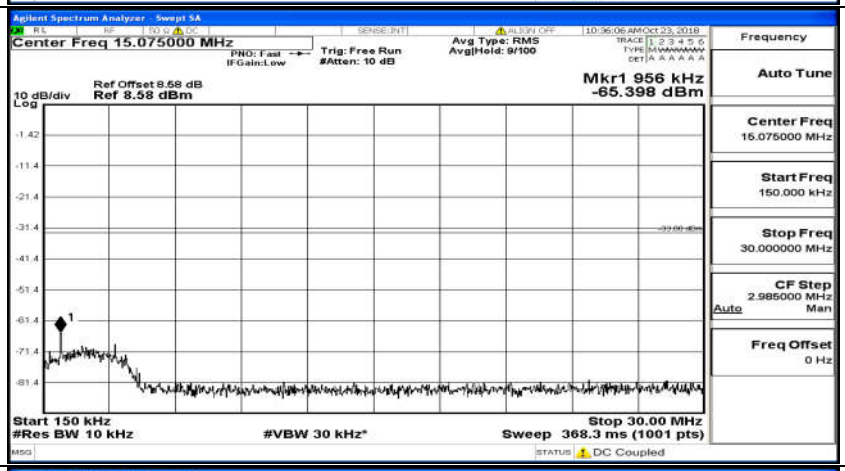


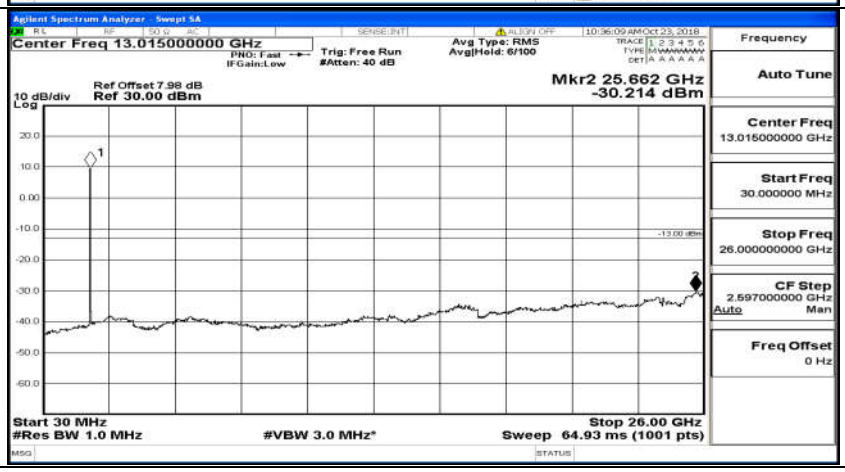




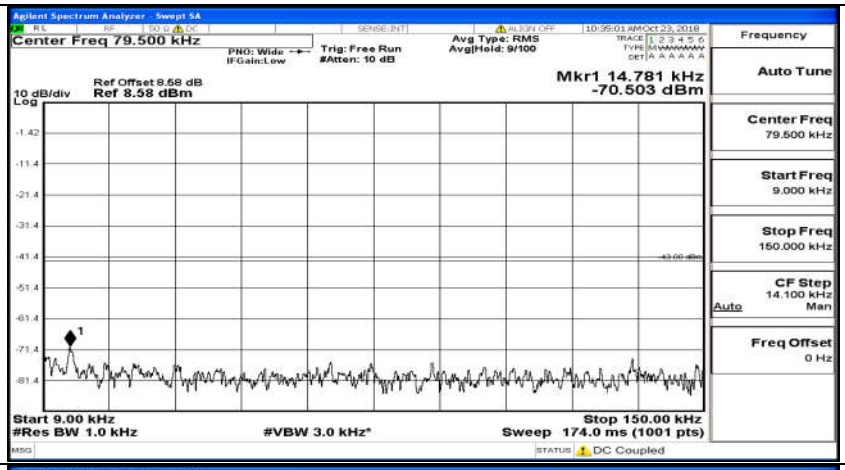
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

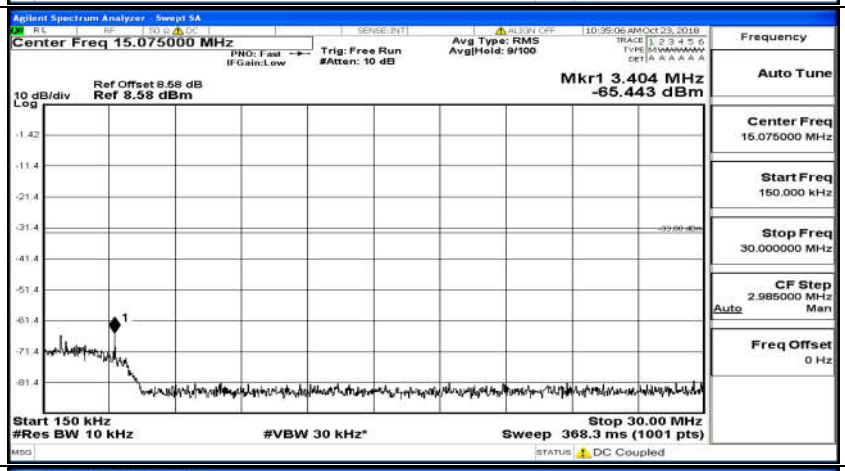


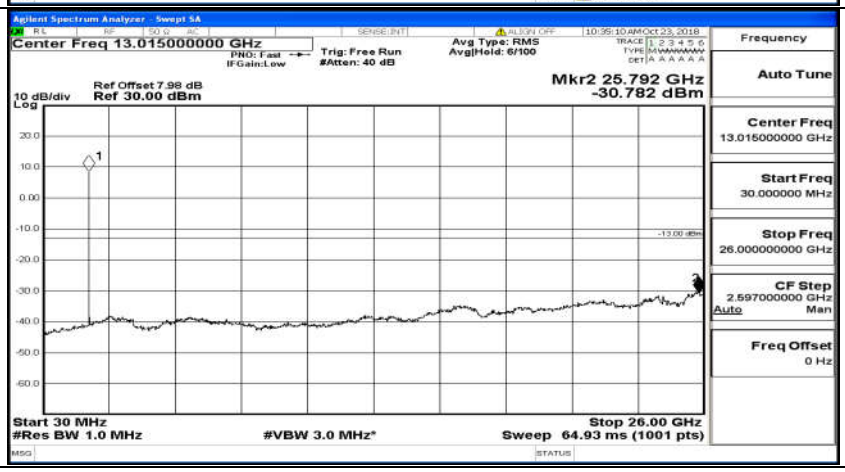




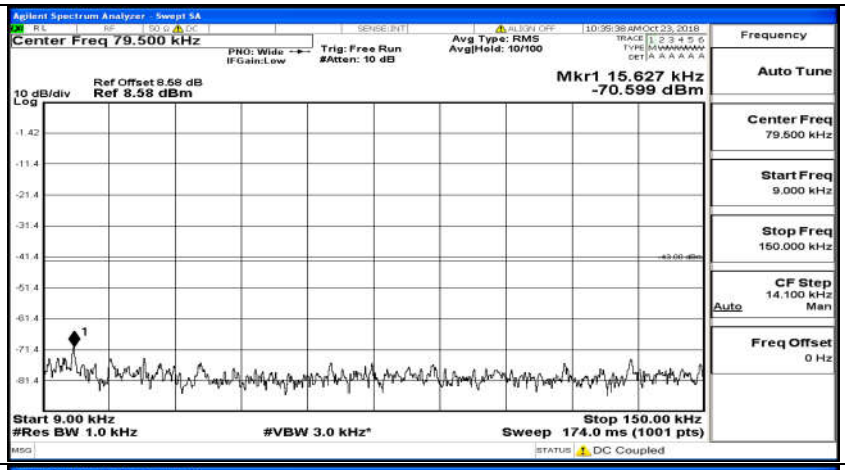
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0

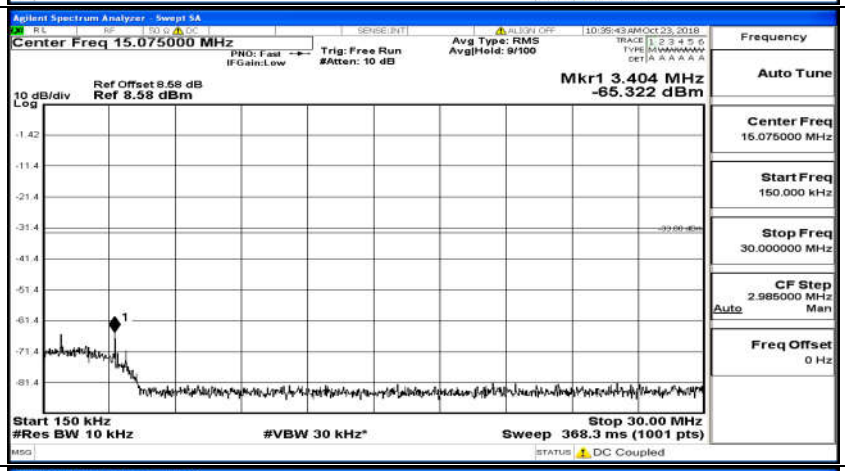


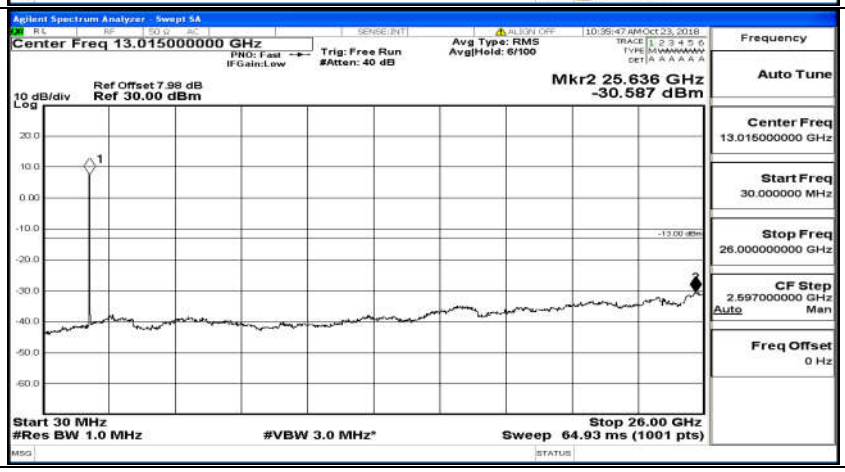




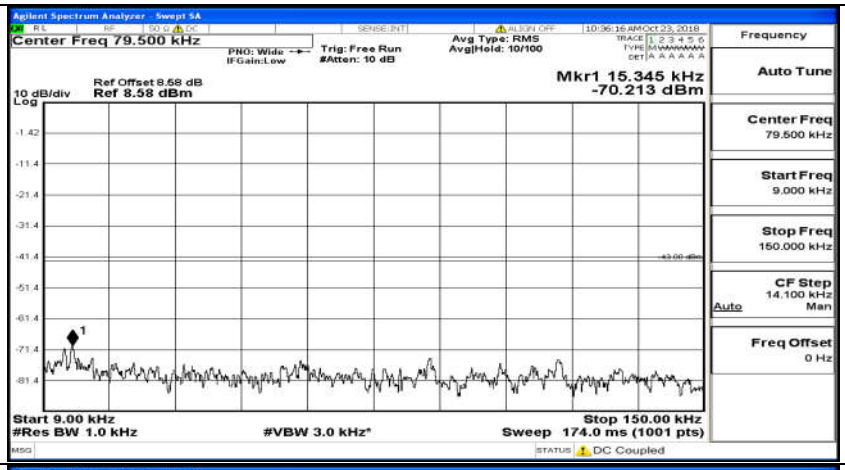
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0

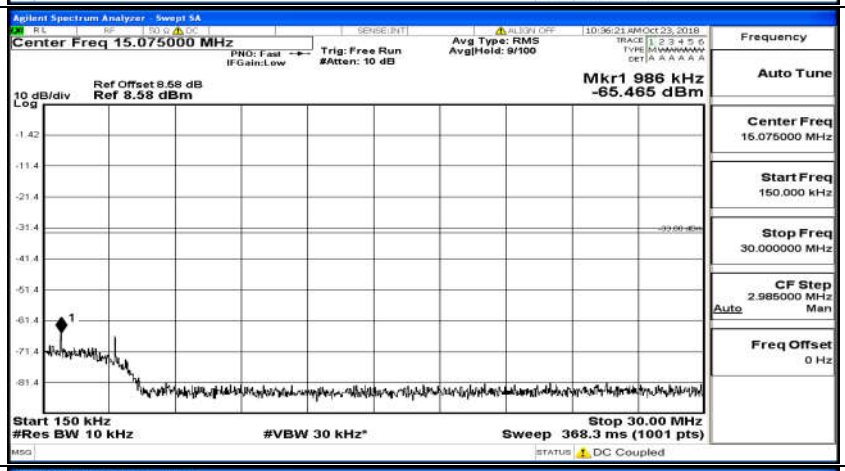


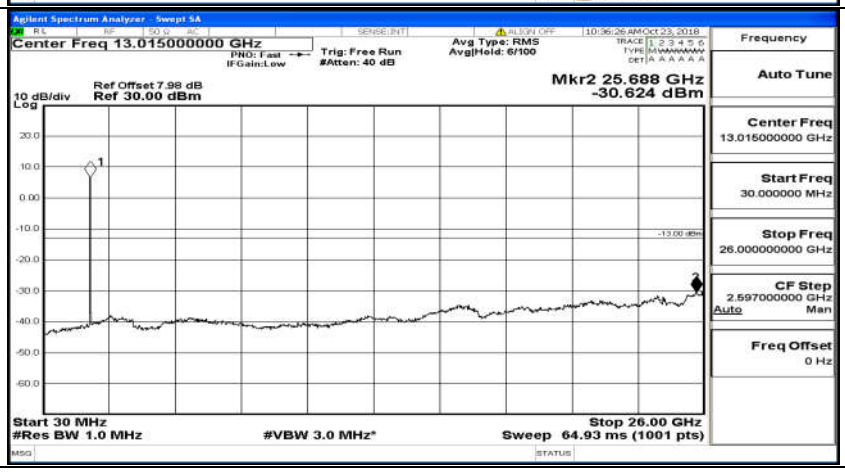




(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

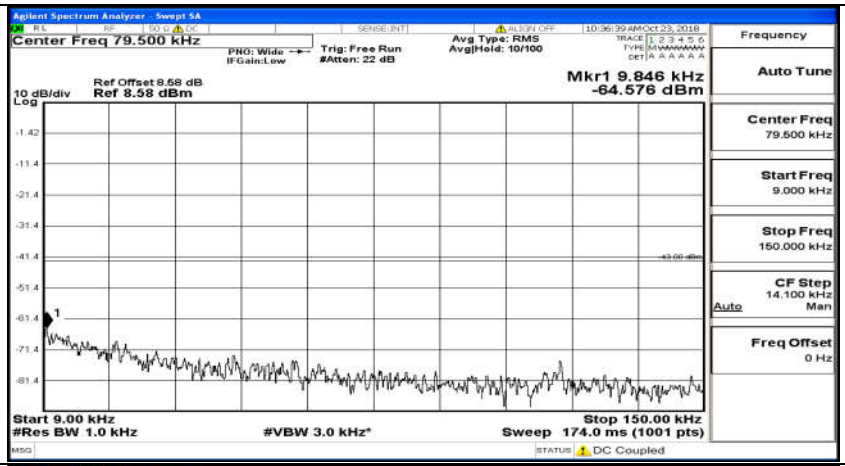


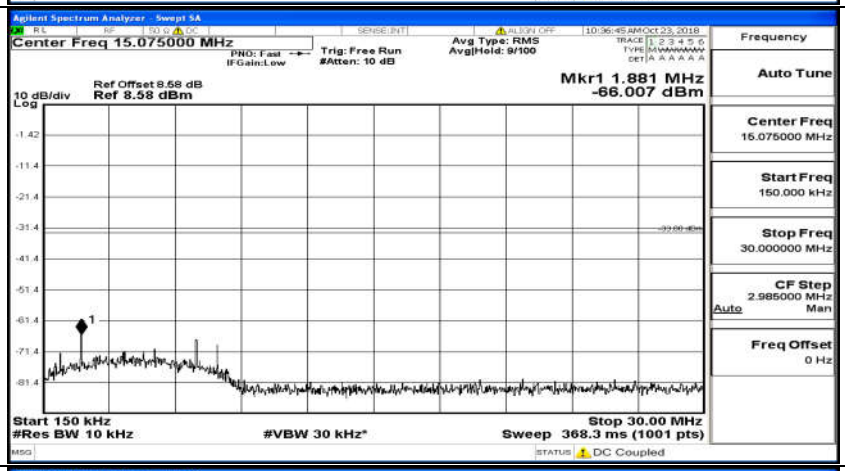




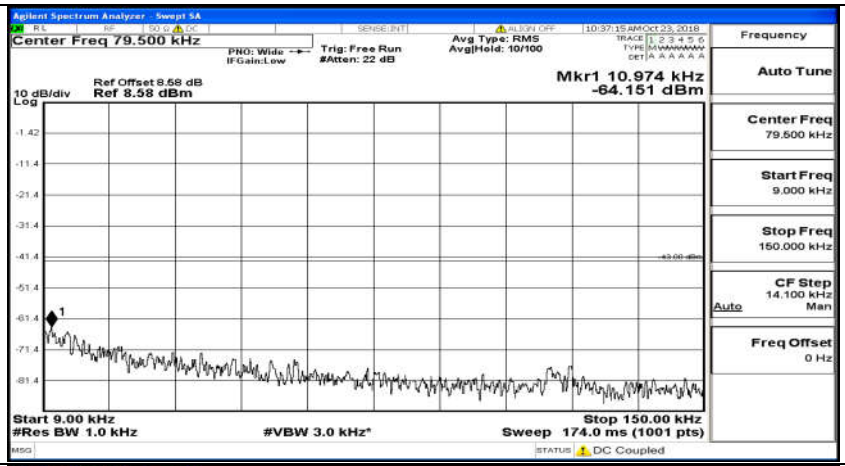
Channel Bandwidth: 10 MHz

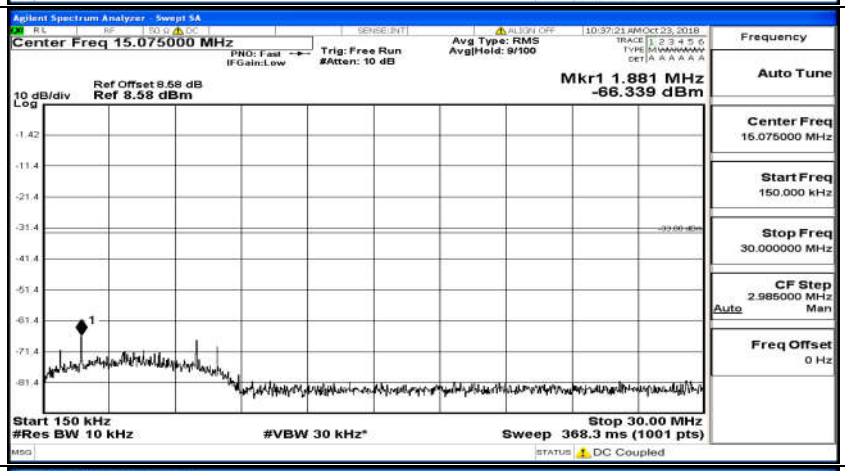
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0

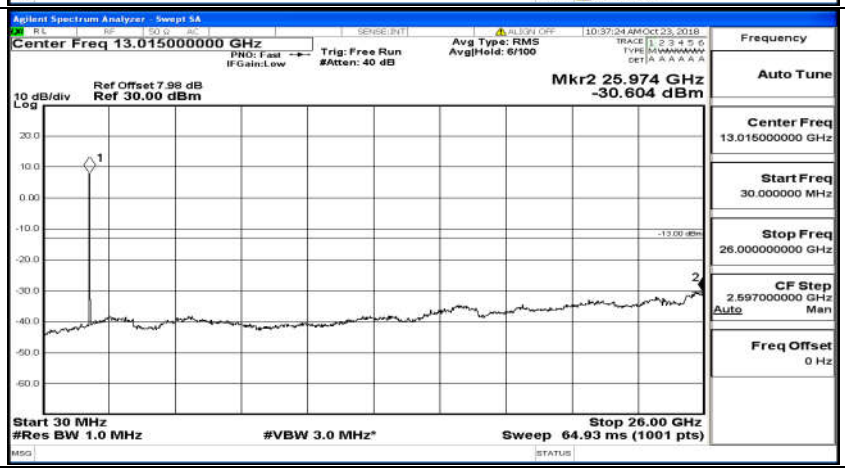




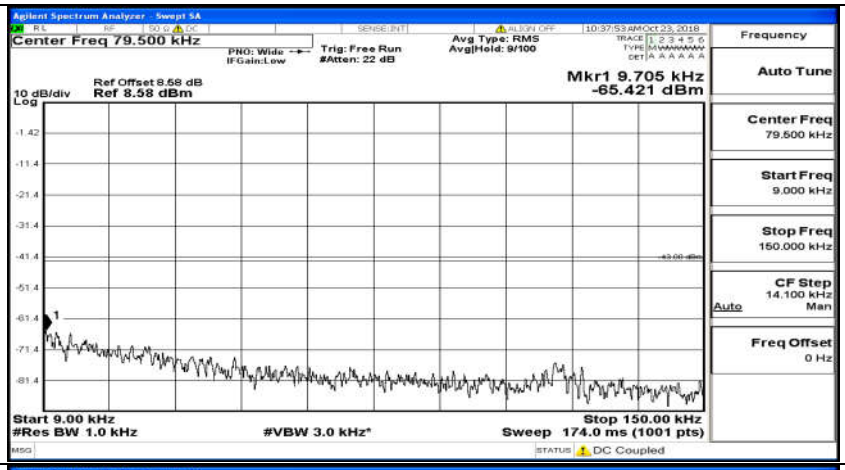
Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0

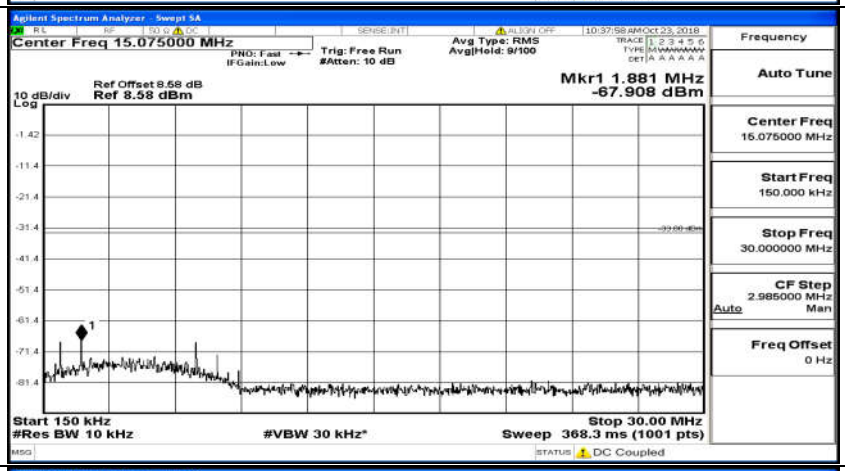


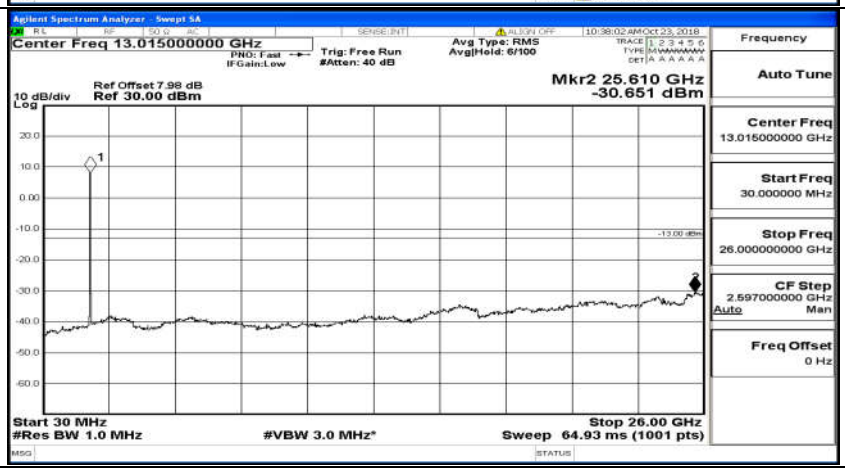




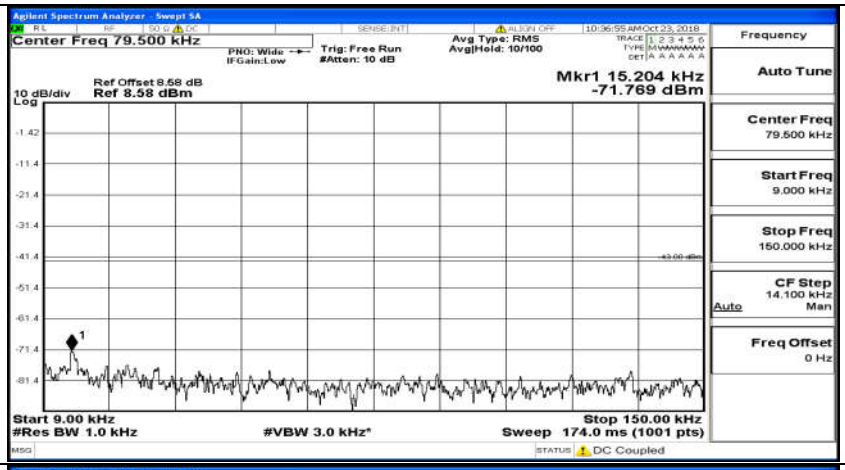
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0

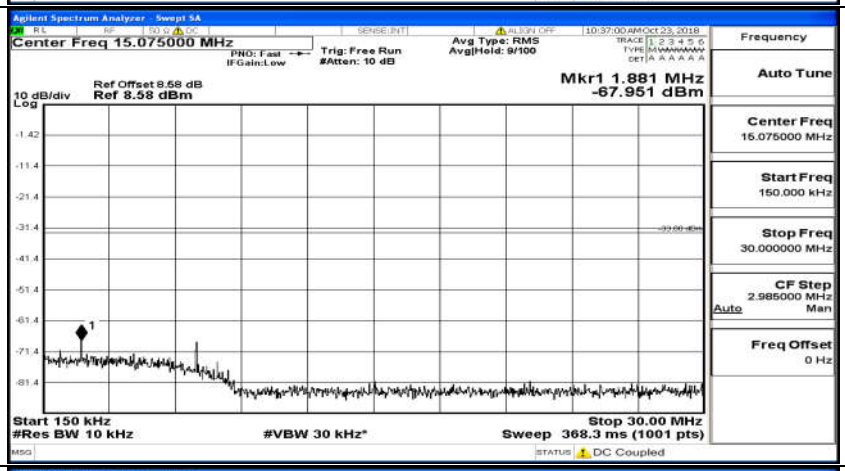


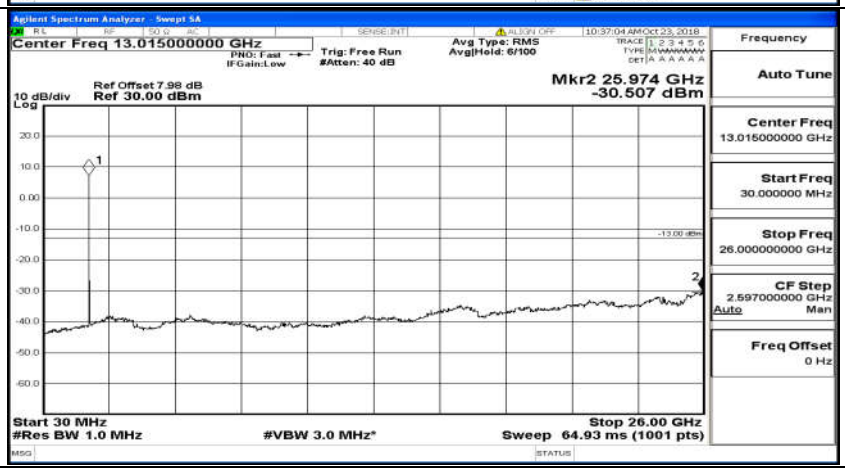




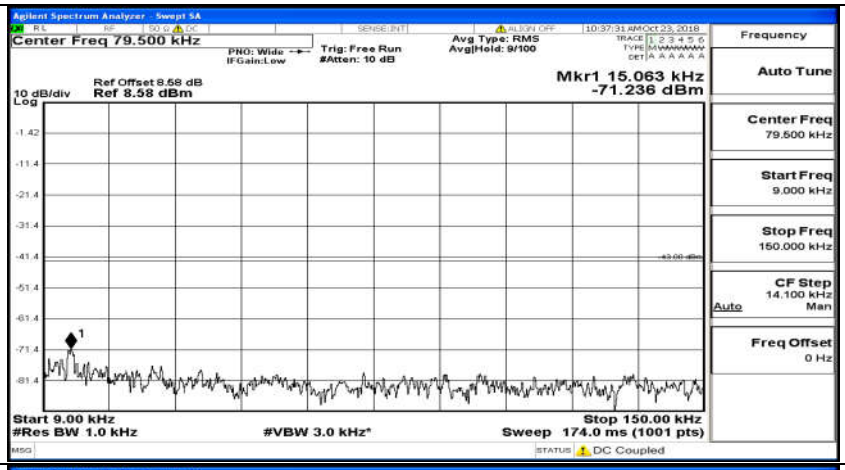
Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0

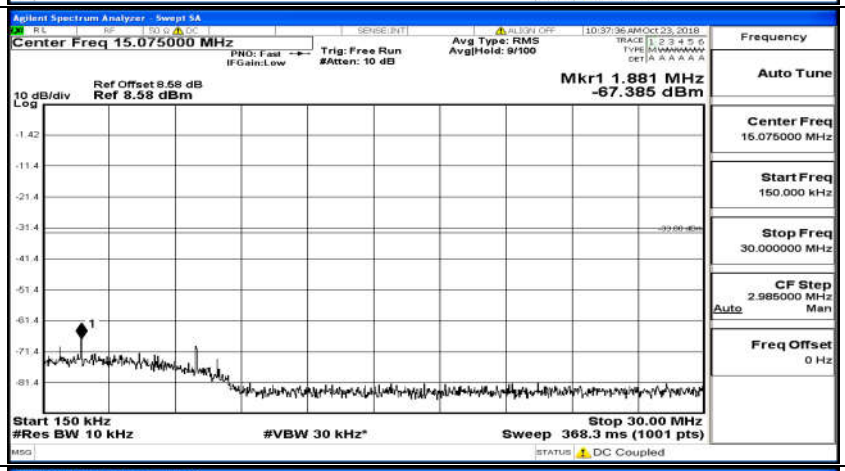


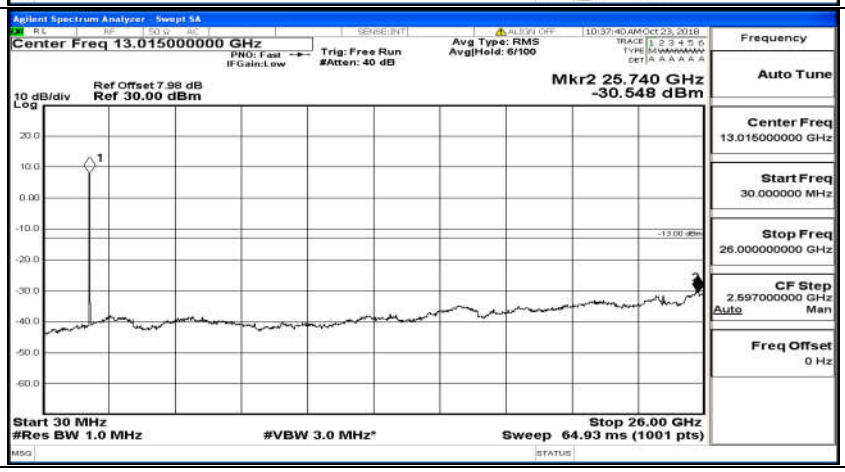




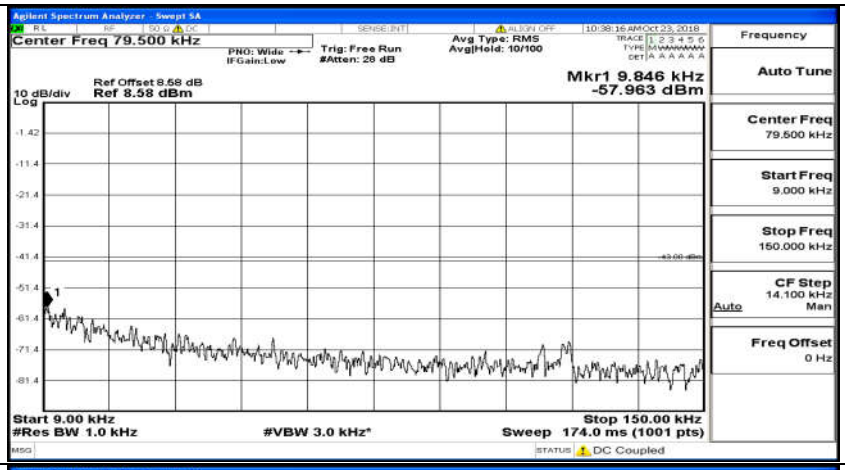
Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0

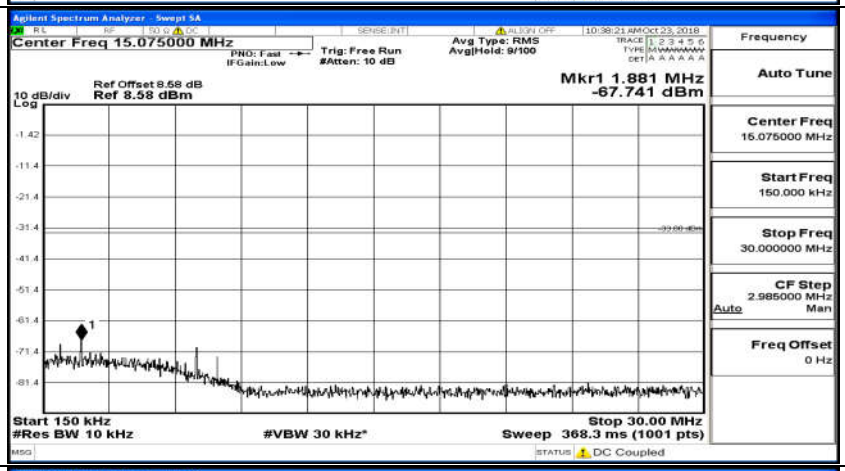






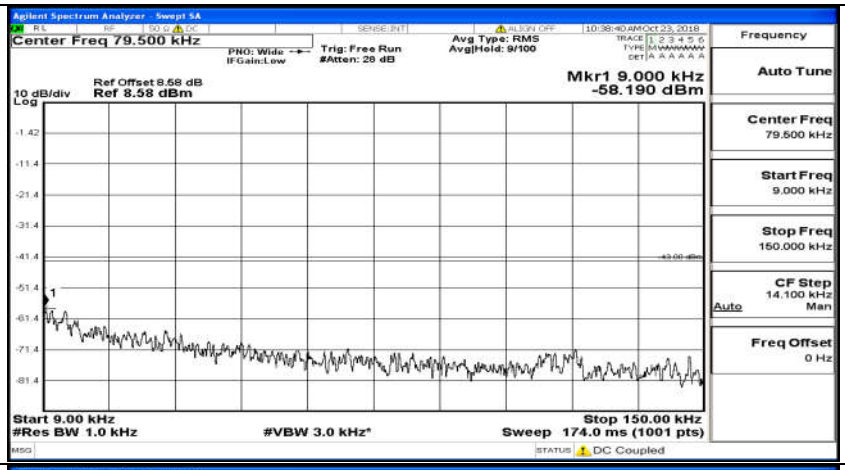
Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0

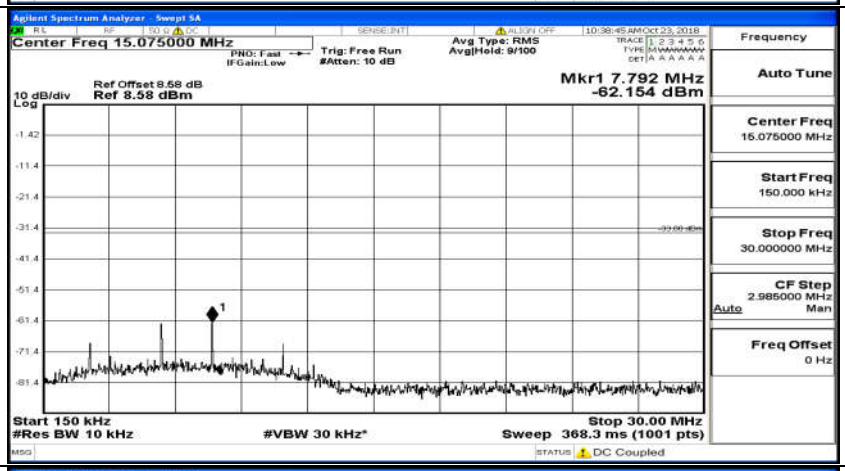


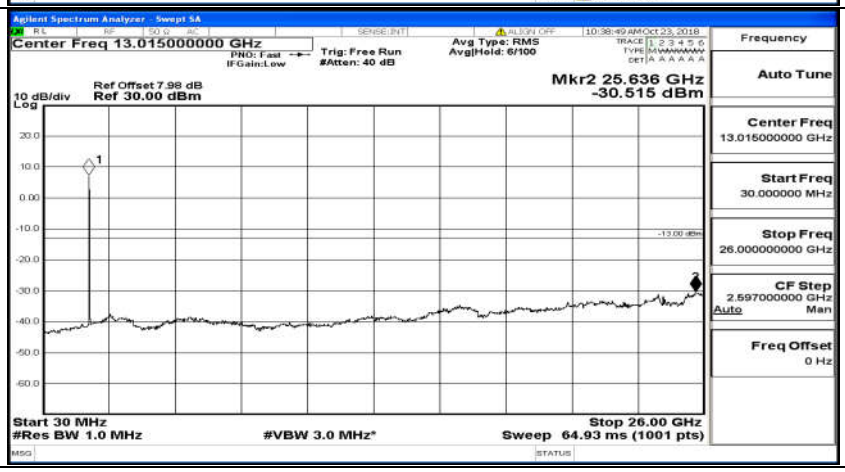


Channel Bandwidth: 15 MHz

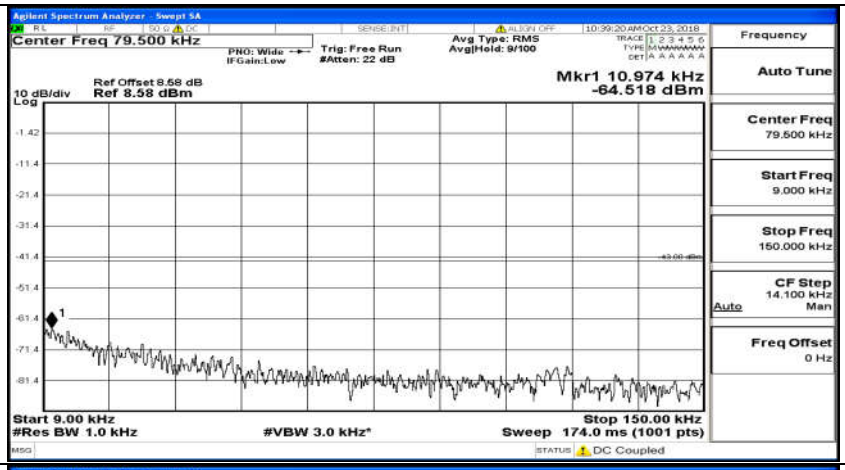
(Channel Bandwidth:15 MHz)_LCH_QPSK_75RB#0

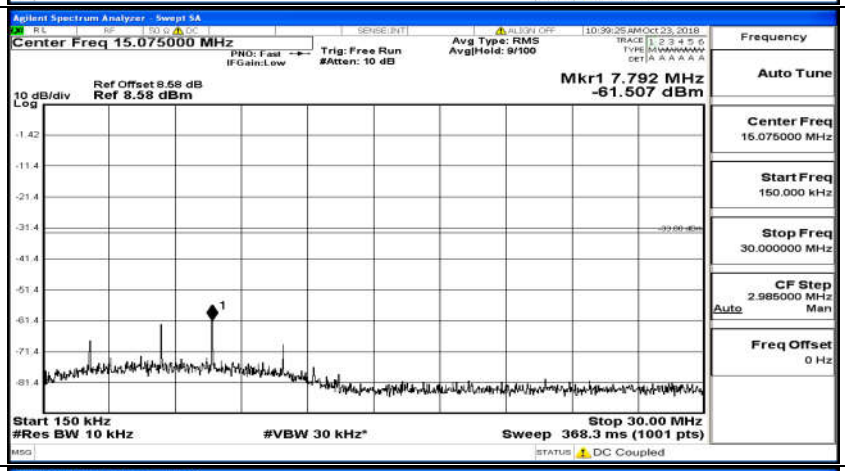




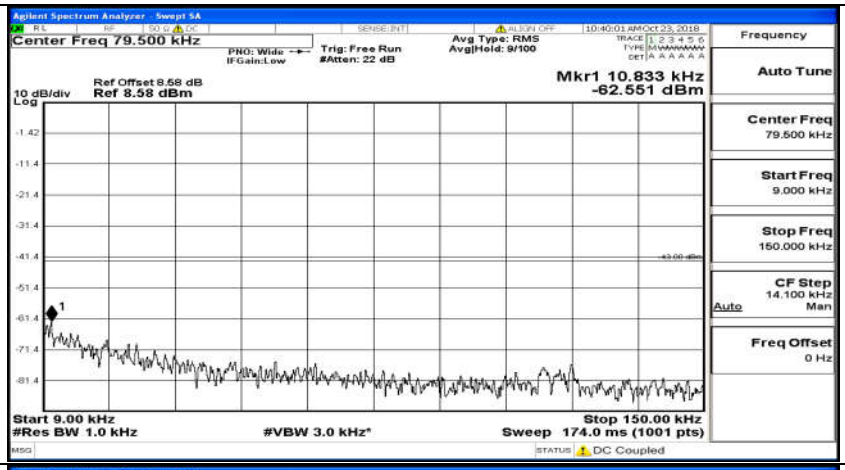


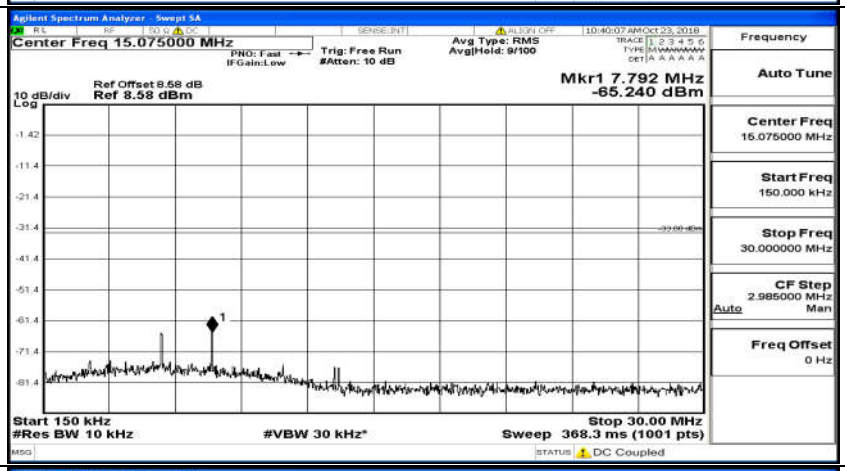
(Channel Bandwidth:15 MHz)_MCH_QPSK_75RB#0

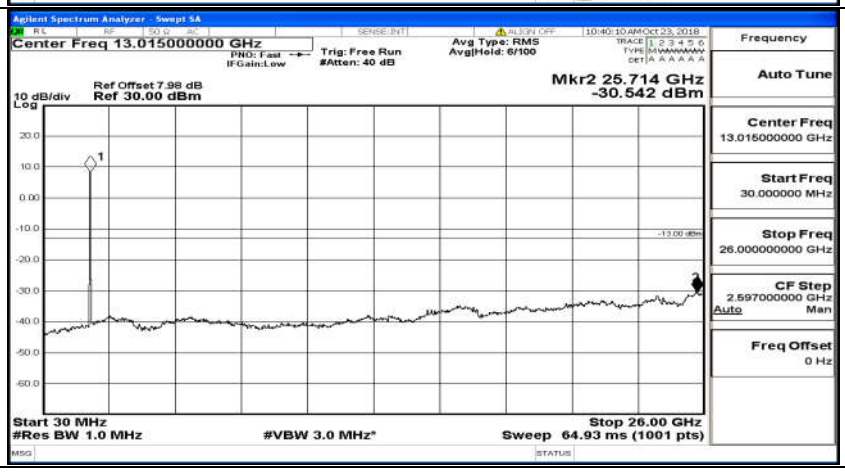




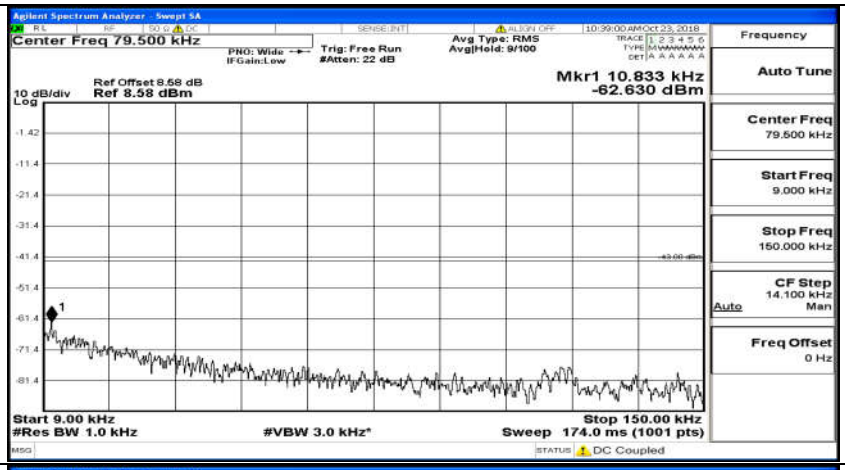
(Channel Bandwidth:15 MHz)_HCH_QPSK_75RB#0

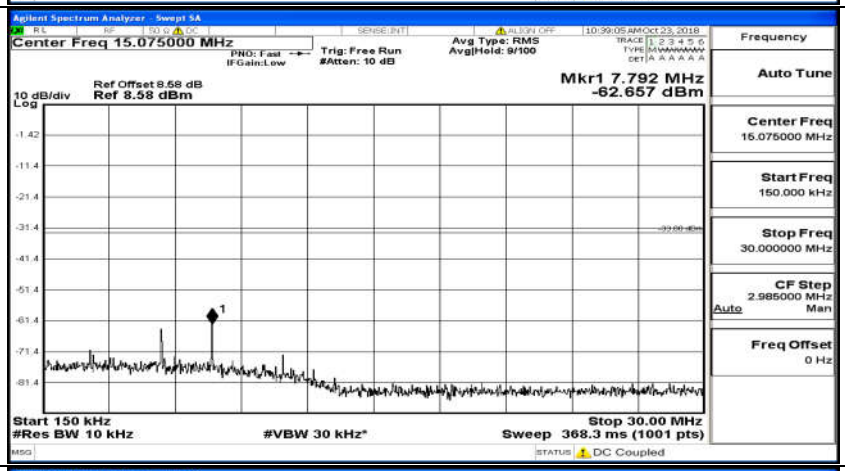


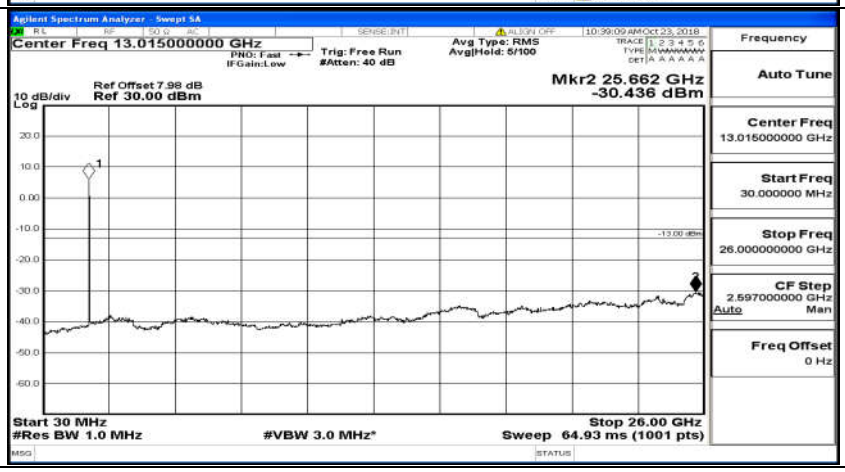




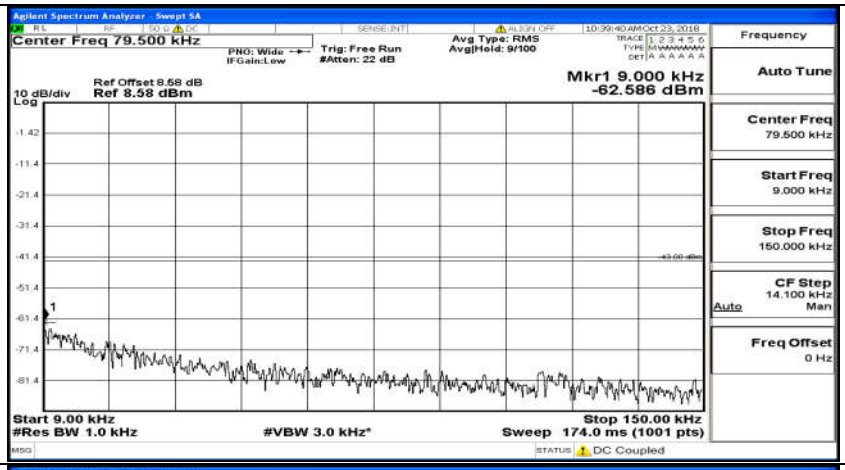
(Channel Bandwidth:15 MHz)_LCH_16QAM_75RB#0

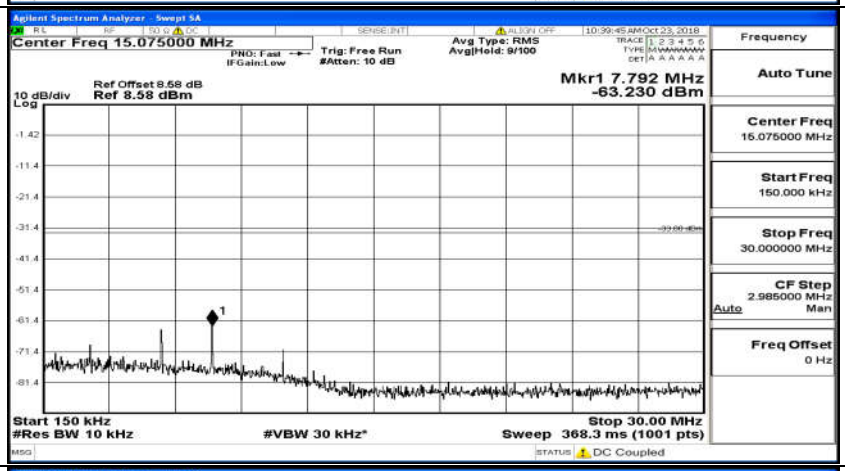


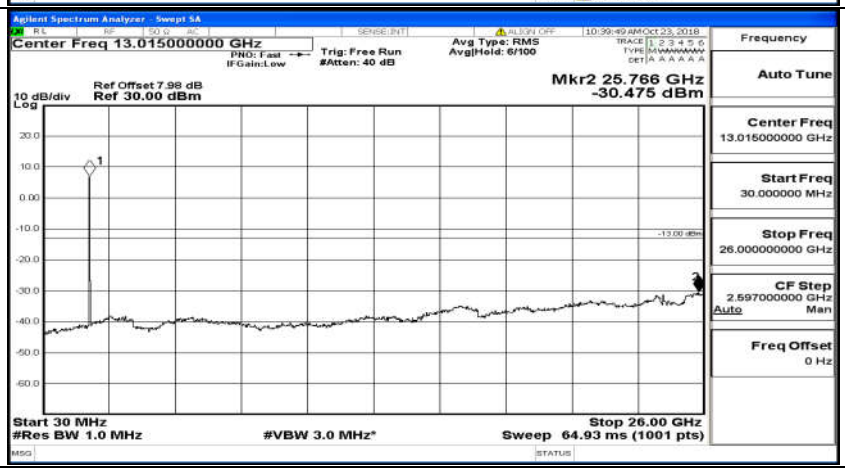




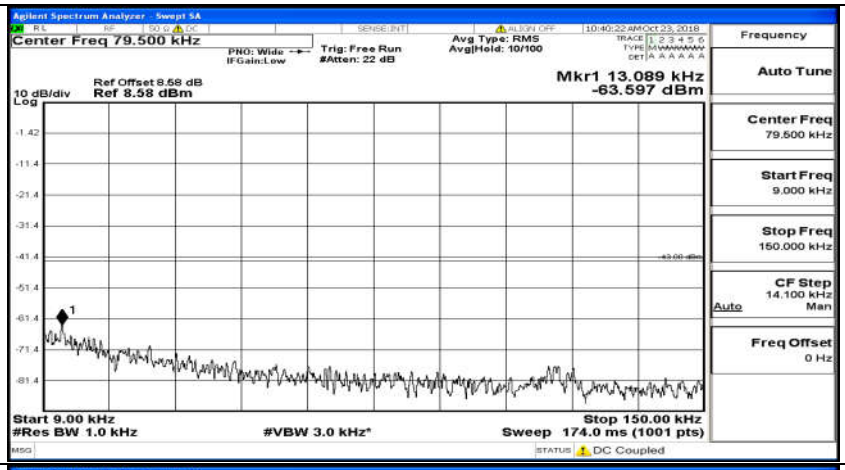
(Channel Bandwidth:15 MHz)_MCH_16QAM_75RB#0

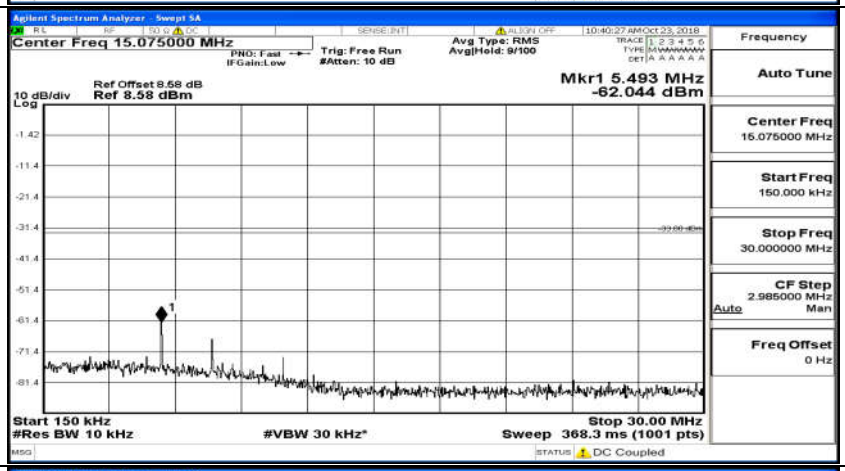


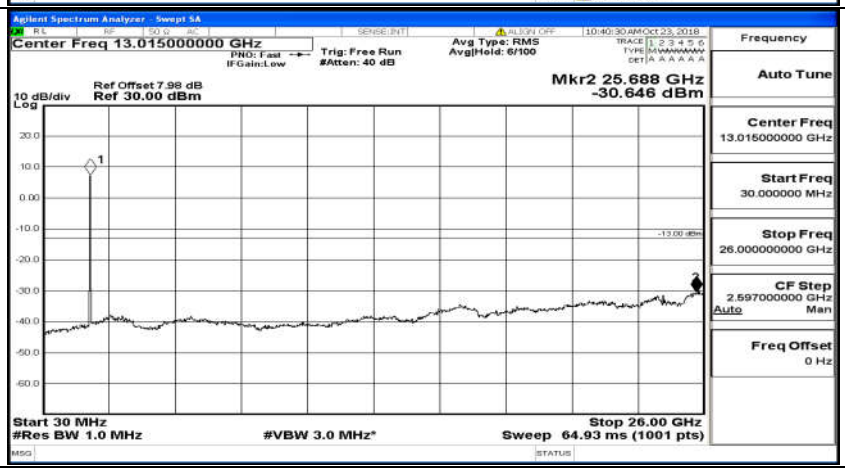




(Channel Bandwidth:15 MHz)_HCH_16QAM_75RB#0

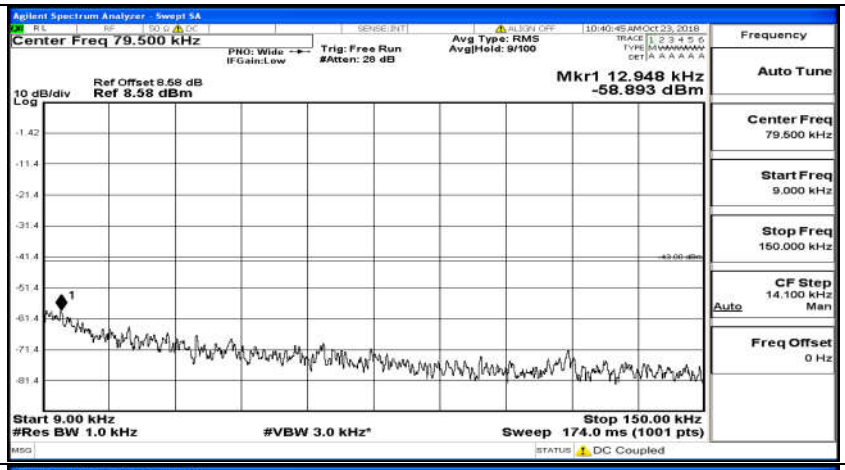


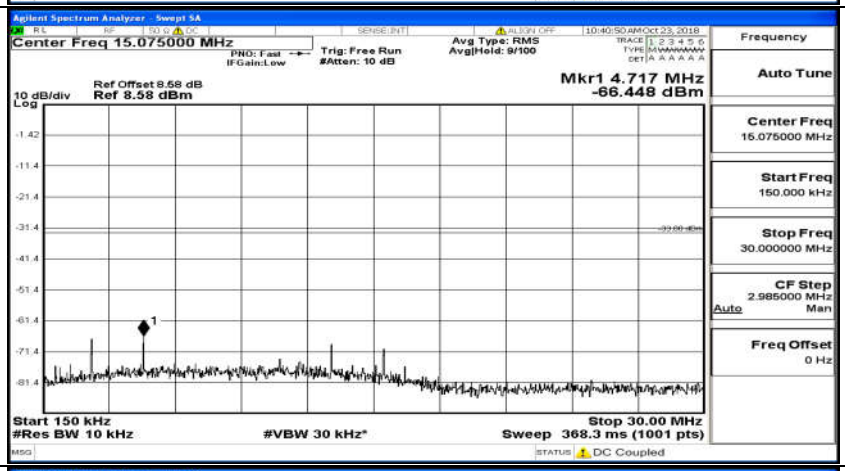


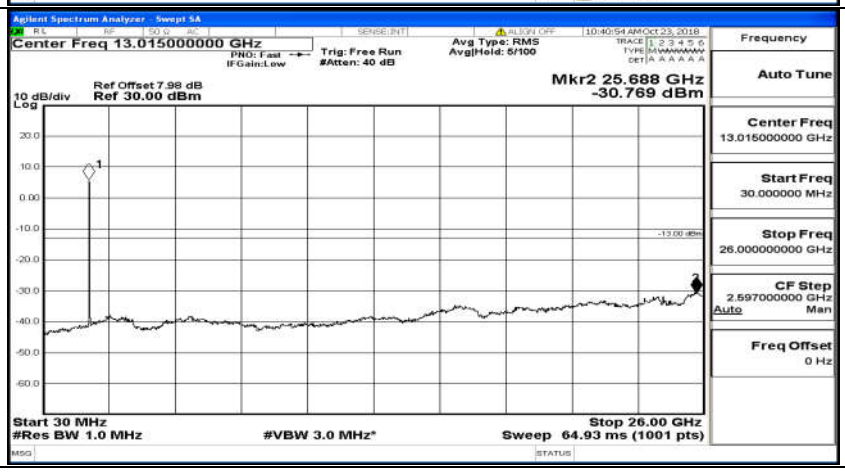


Channel Bandwidth: 20 MHz

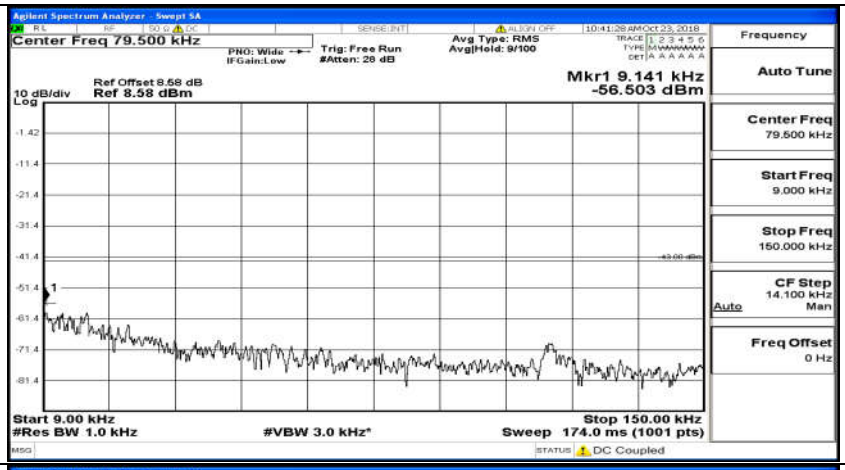
(Channel Bandwidth:20 MHz)_LCH_QPSK_100RB#0

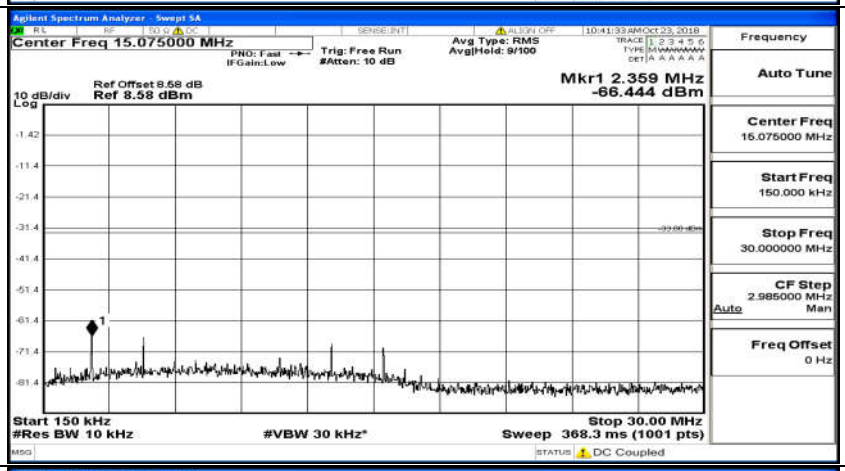


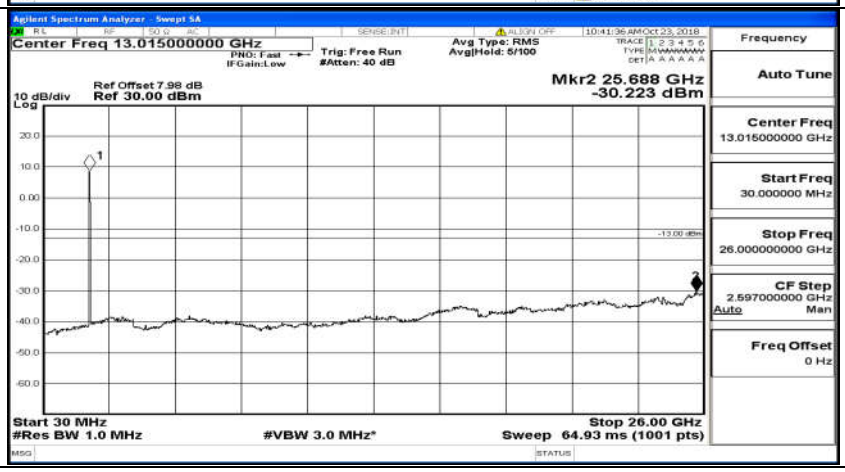




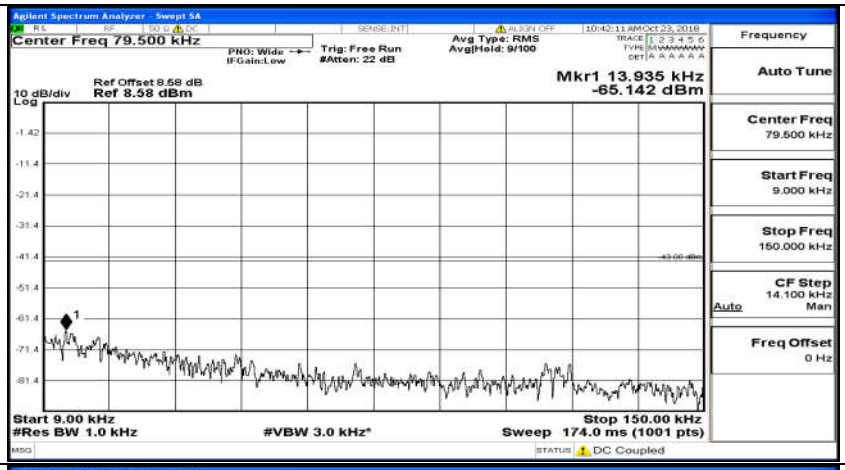
(Channel Bandwidth:20 MHz)_MCH_QPSK_100RB#0

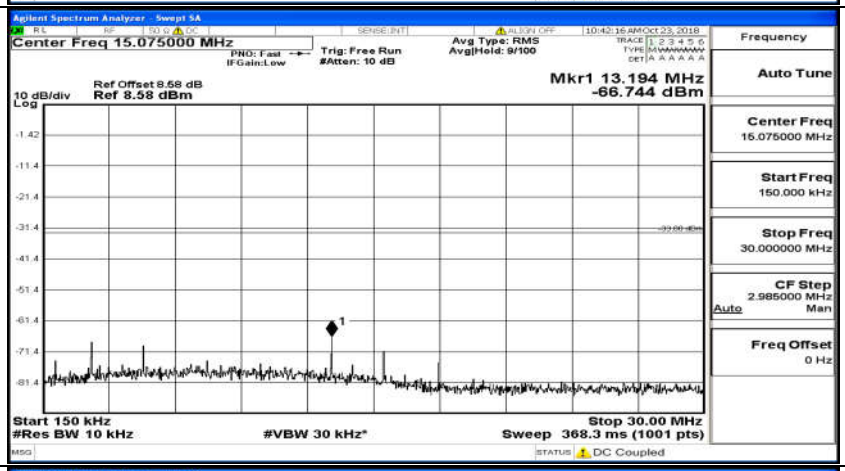




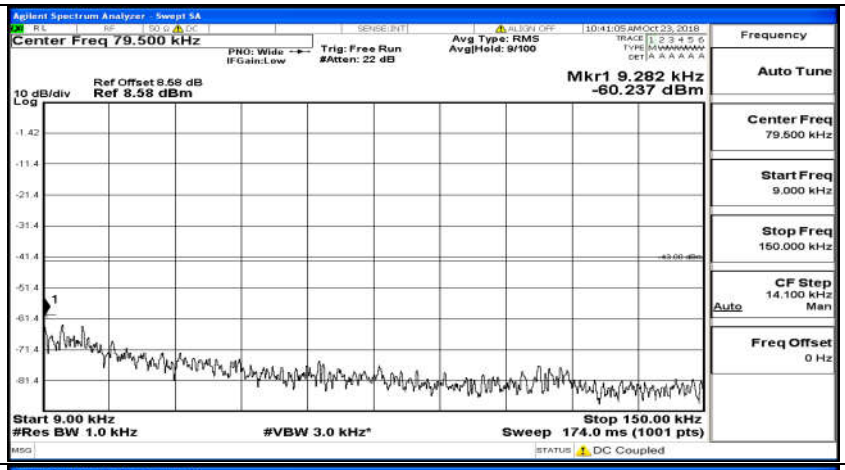


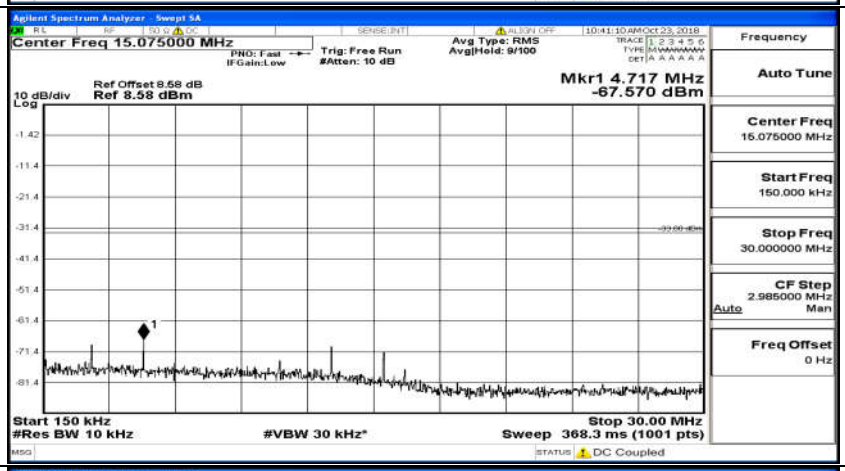
(Channel Bandwidth:20 MHz)_HCH_QPSK_100RB#0

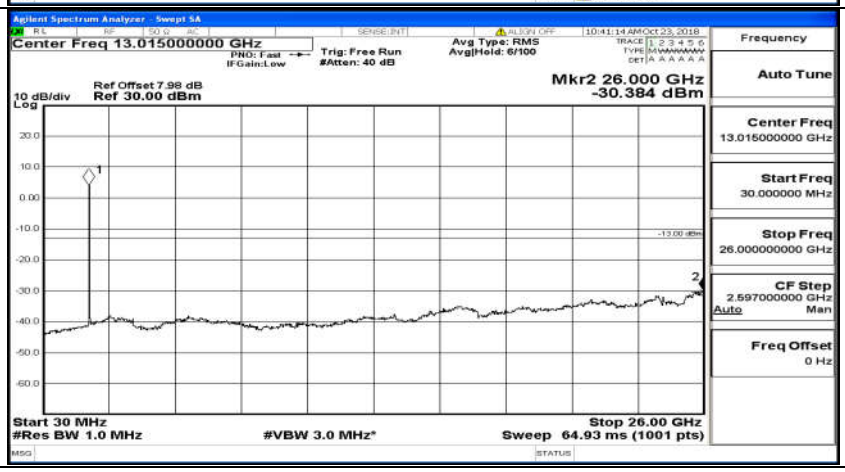




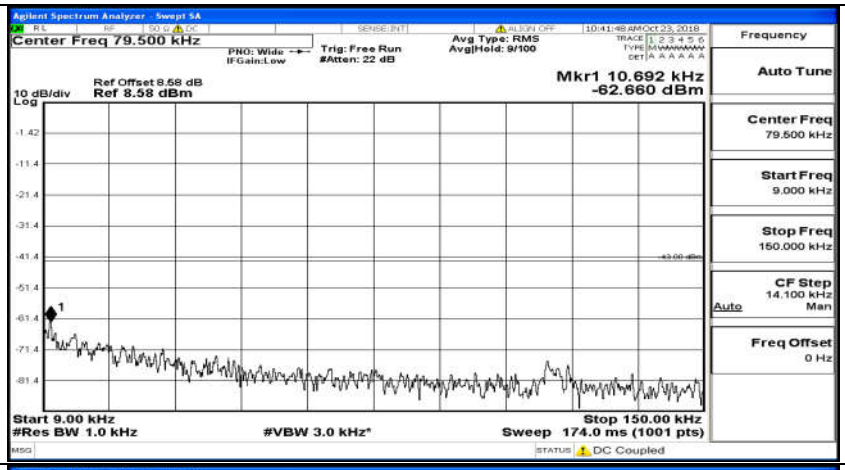
(Channel Bandwidth:20 MHz)_LCH_16QAM_100RB#0

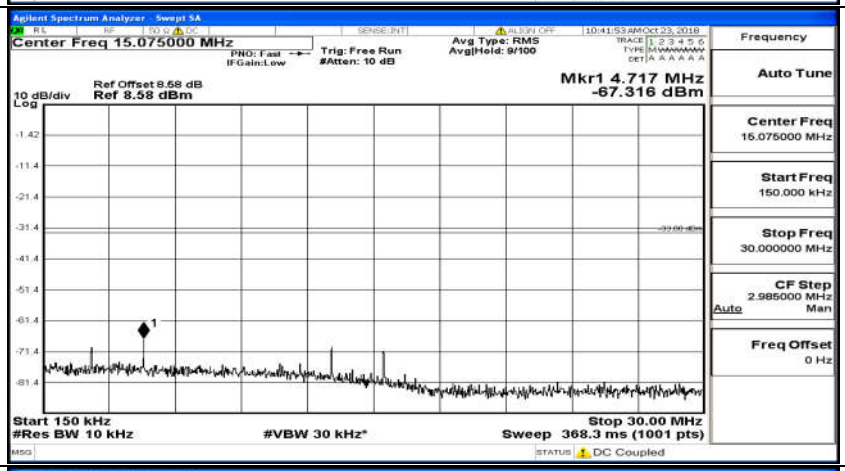


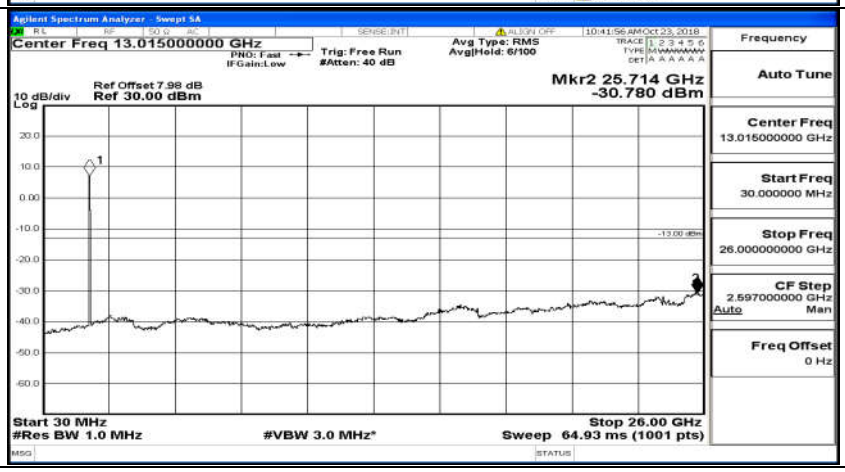




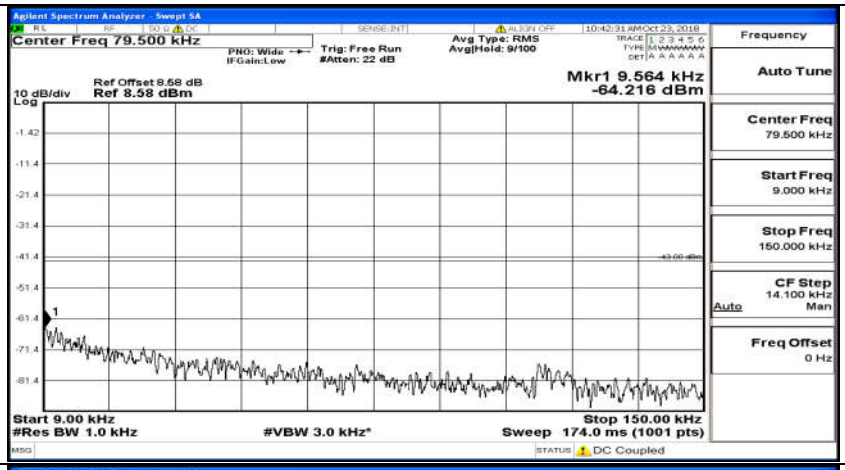
(Channel Bandwidth:20 MHz)_MCH_16QAM_100RB#0

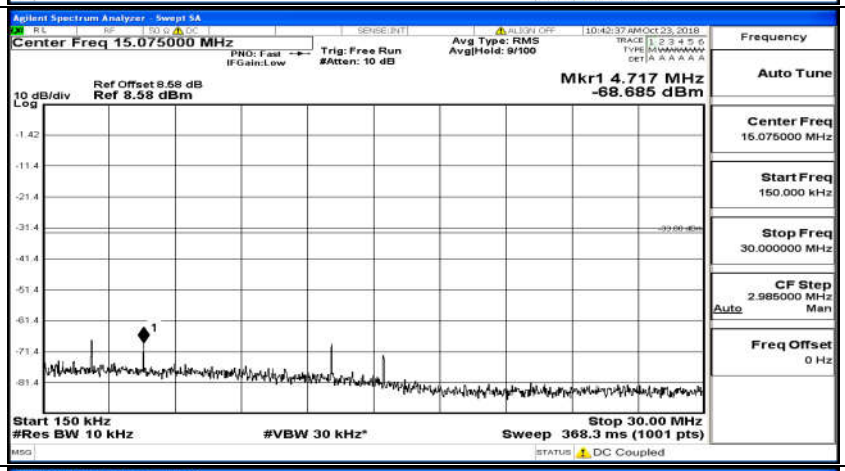


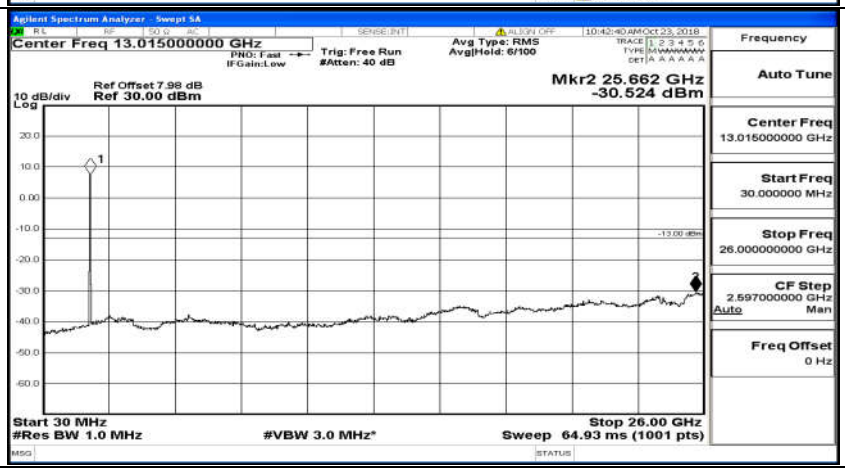




(Channel Bandwidth:20 MHz)_HCH_16QAM_100RB#0


Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: RMS
Avg|Hold: 9/100
10:42:31 AM Oct 23, 2018
Mkr1 9.564 kHz
-64.216 dBm
Ref Offset 8.58 dB
10 dB/div
Log
Ref 8.58 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.0 ms (1001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 9/100
10:42:37 AM Oct 23, 2018
Mkr1 4.717 MHz
-68.685 dBm
Ref Offset 8.58 dB
10 dB/div
Log
Ref 8.58 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 6/100
10:42:40 AM Oct 23, 2018
Mkr2 25.662 GHz
-30.524 dBm
Ref Offset 7.98 dB
10 dB/div
Log
Ref 30.00 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz