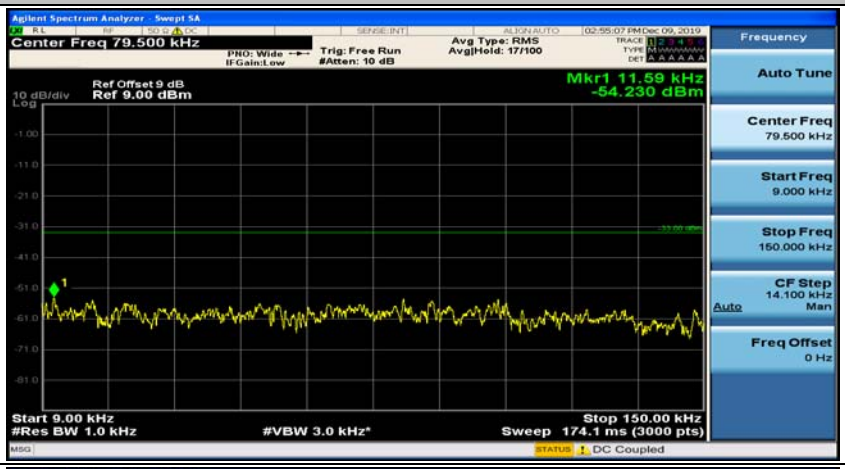
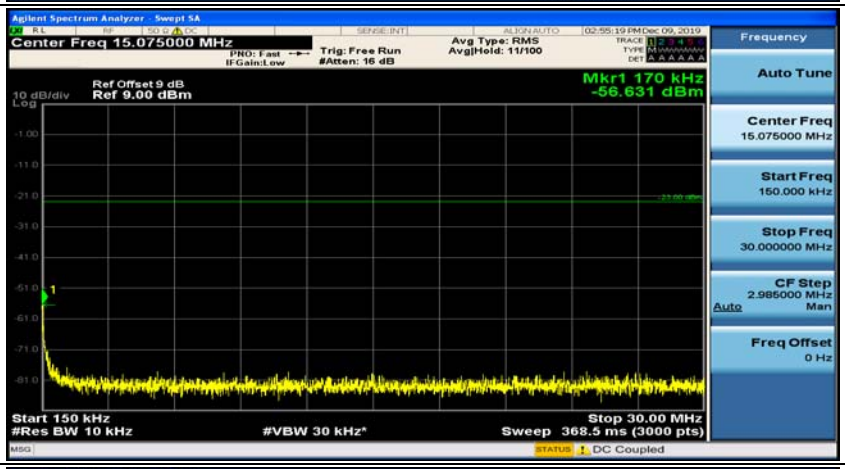
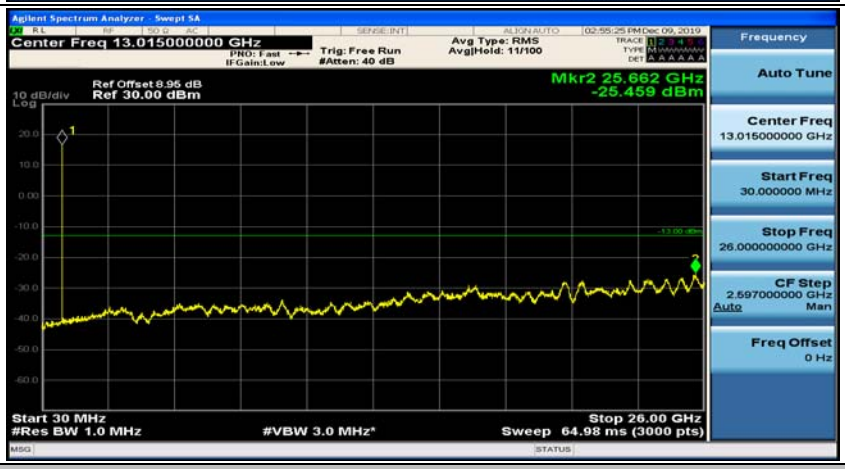
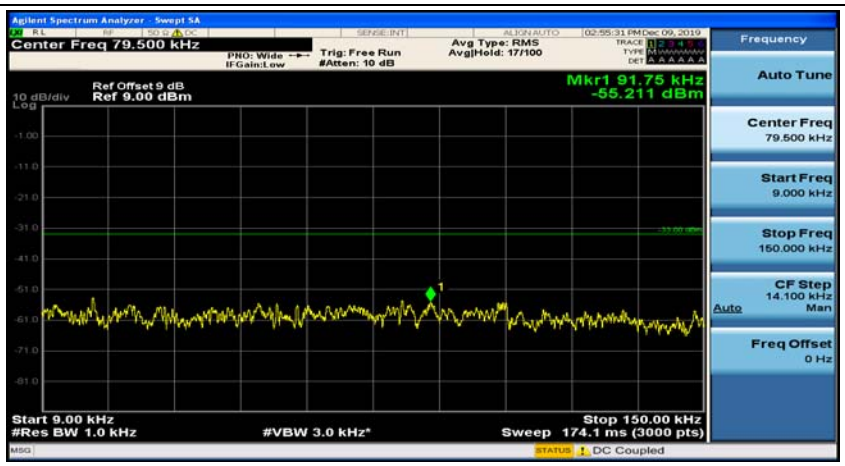
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

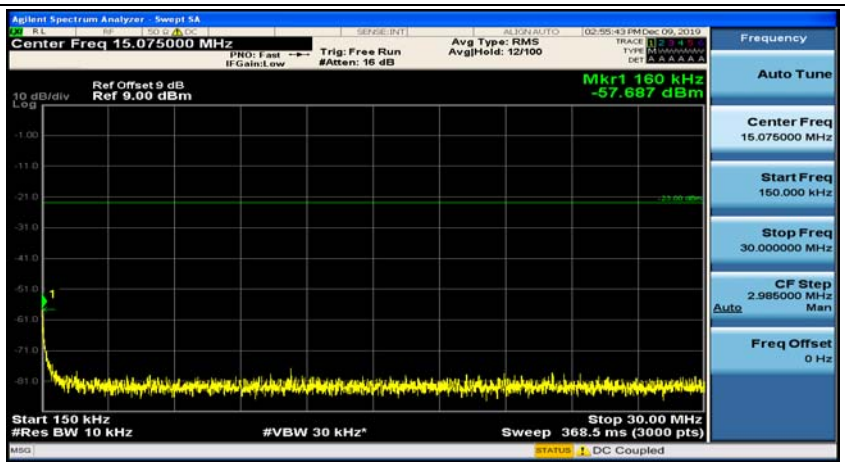






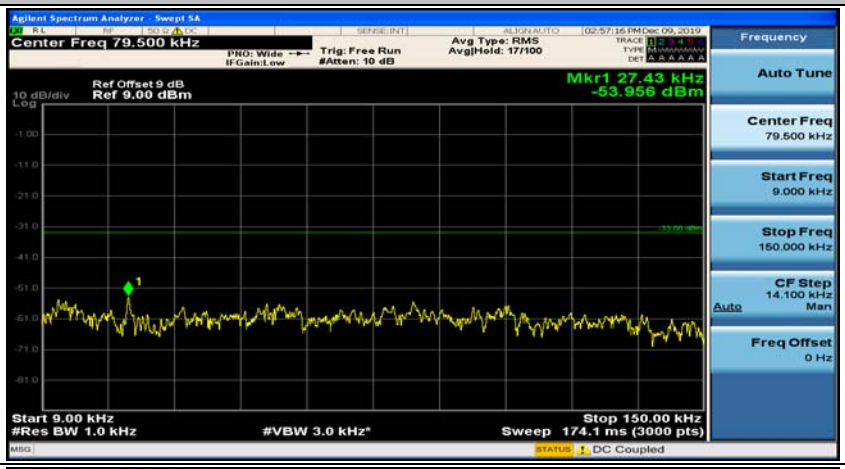
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7

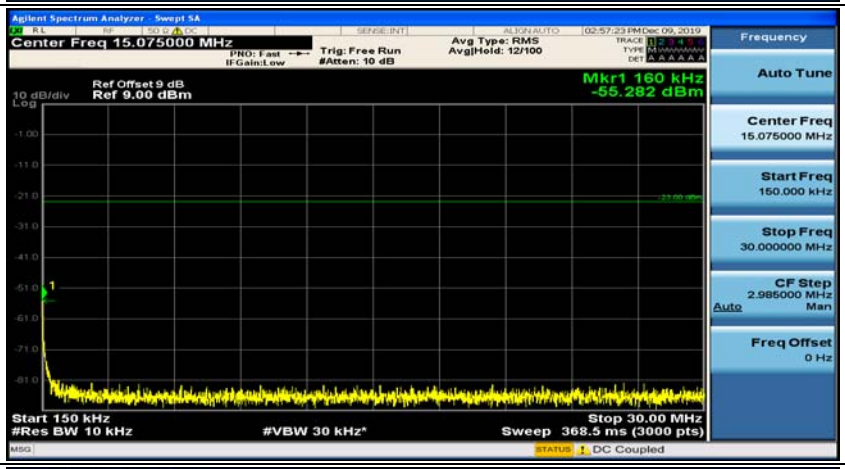

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 91.75 kHz
-55.211 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

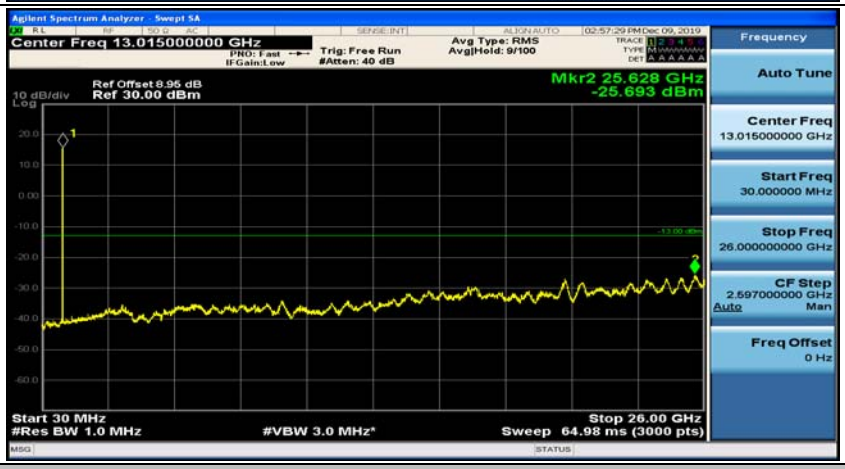

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-57.687 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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: 11/100
Ref Offset 8.96 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.671 GHz
-26.450 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 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

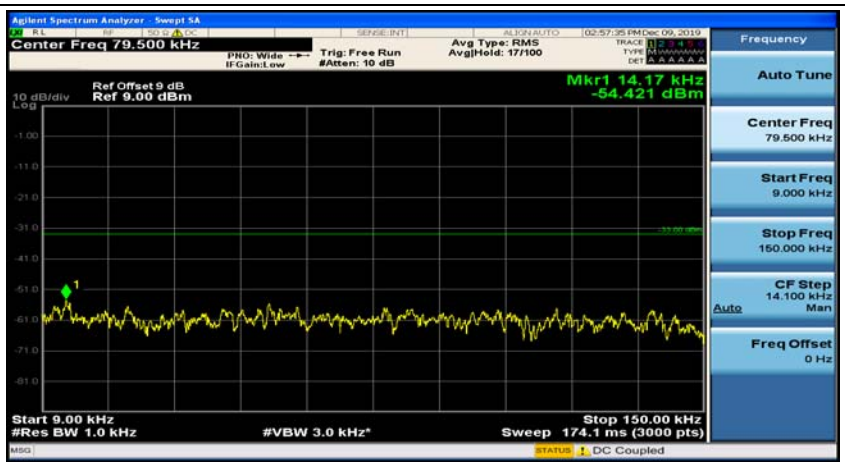
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0

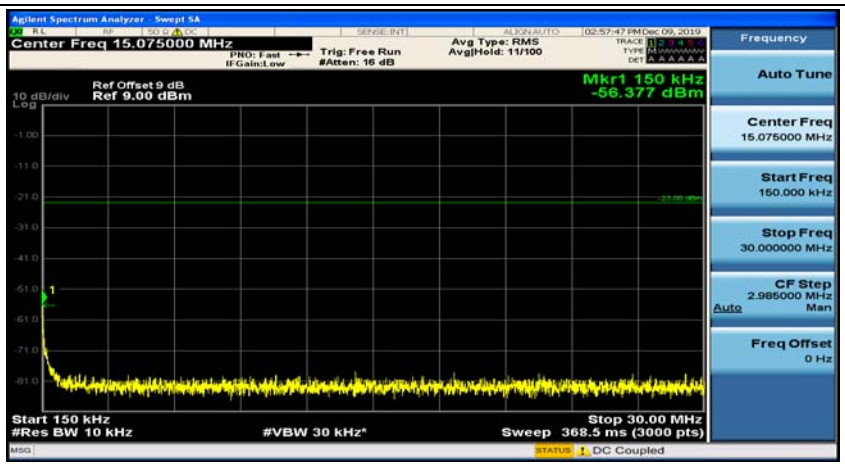


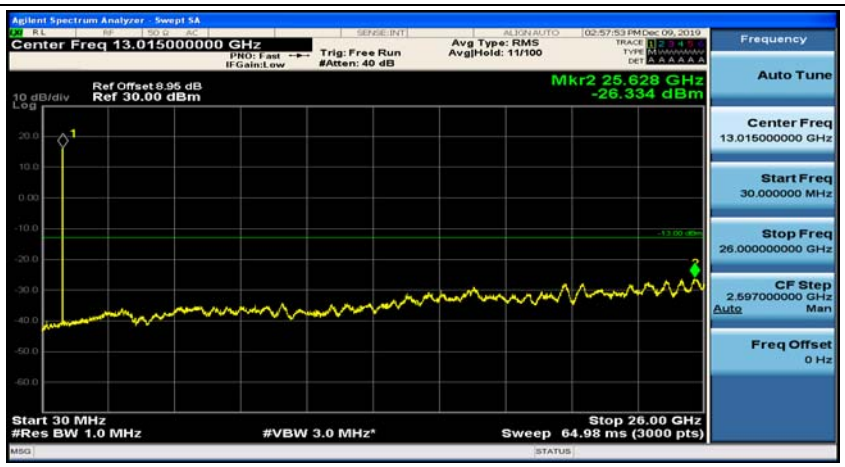




(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7

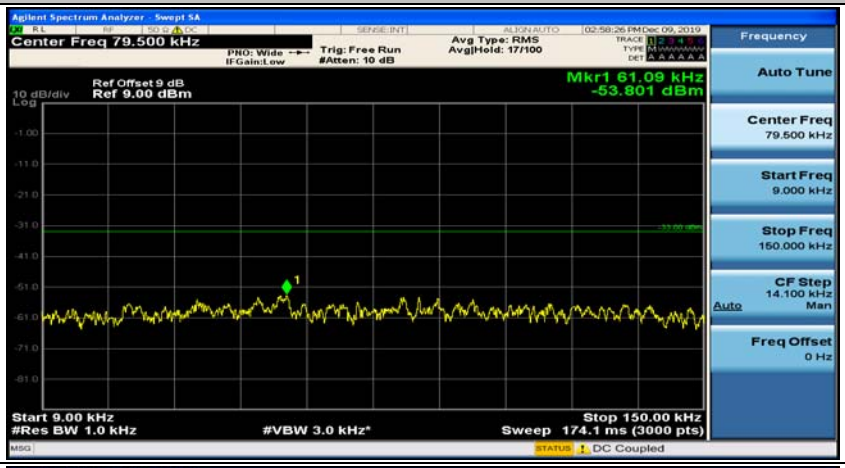

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 14.17 kHz
-54.421 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

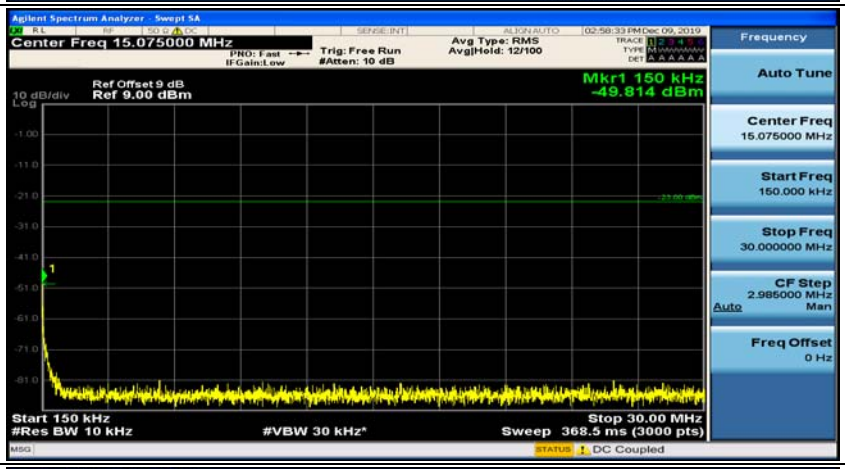

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-56.377 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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: 11/100
Ref Offset 8.96 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.628 GHz
-26.334 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 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

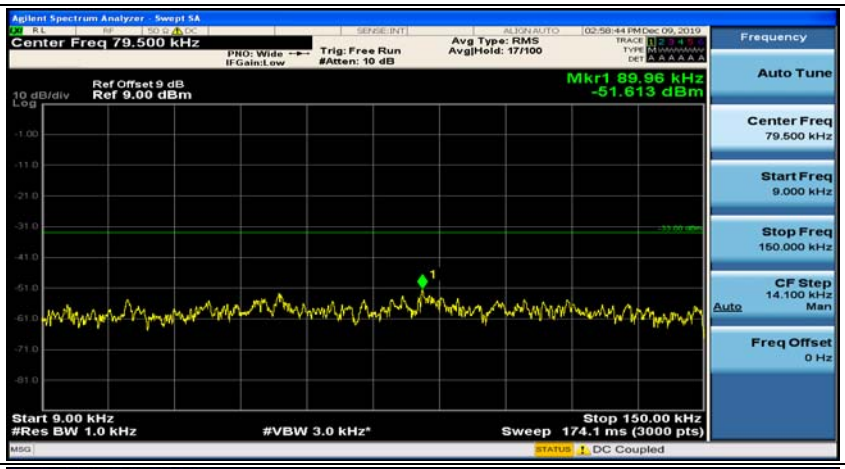
Channel Bandwidth: 5 MHz

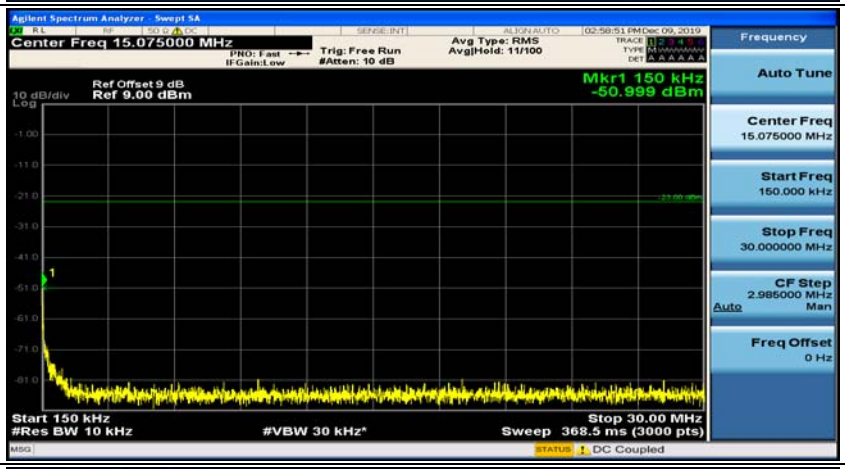
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

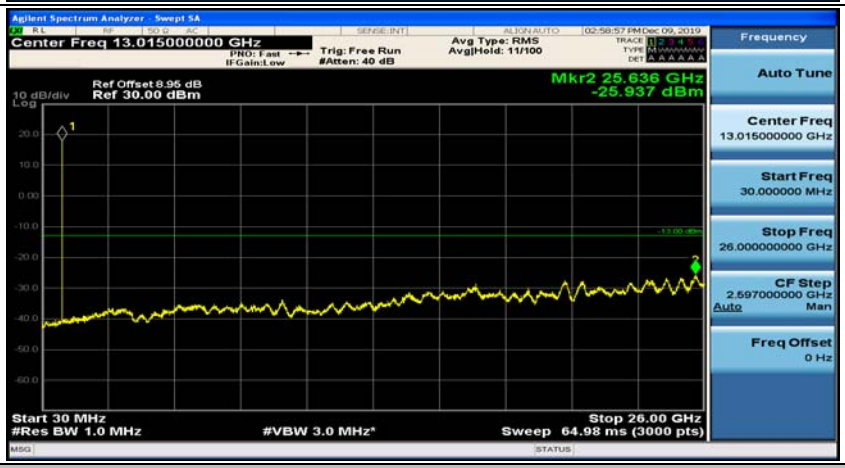




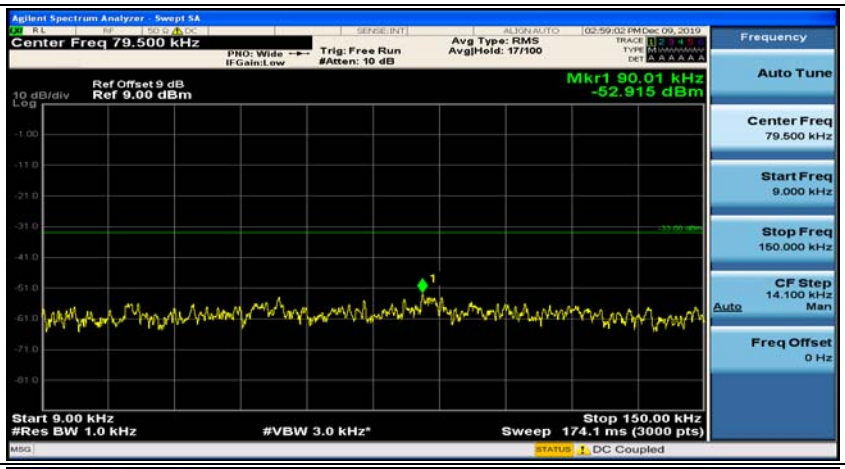
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

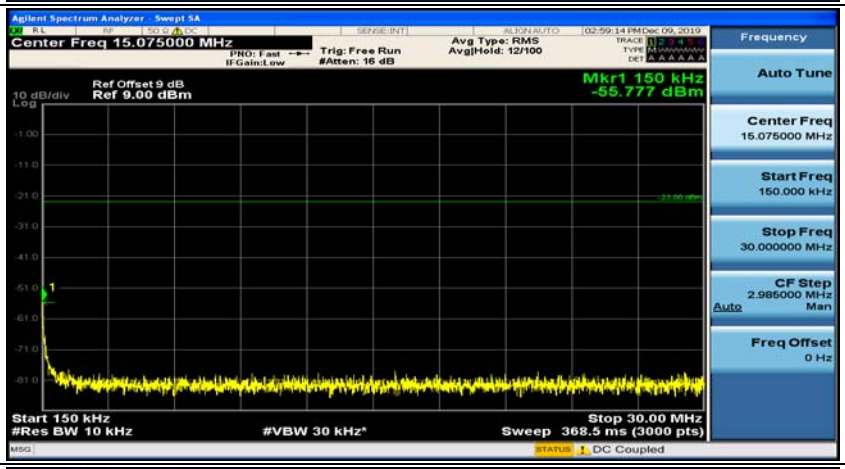


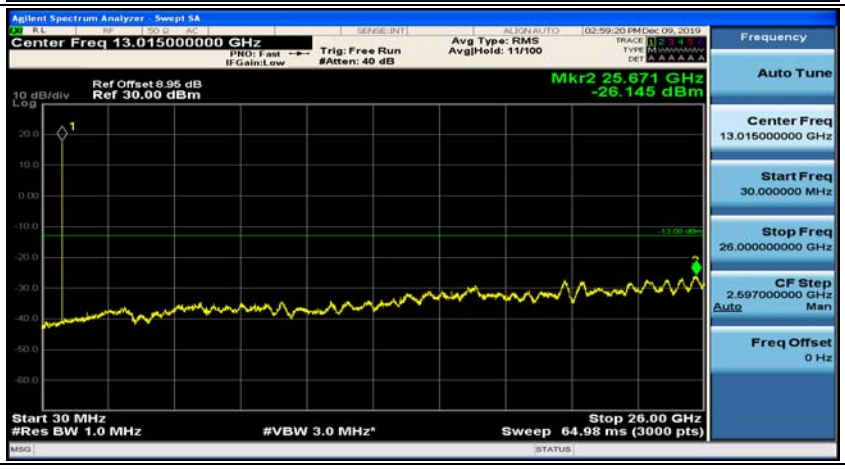




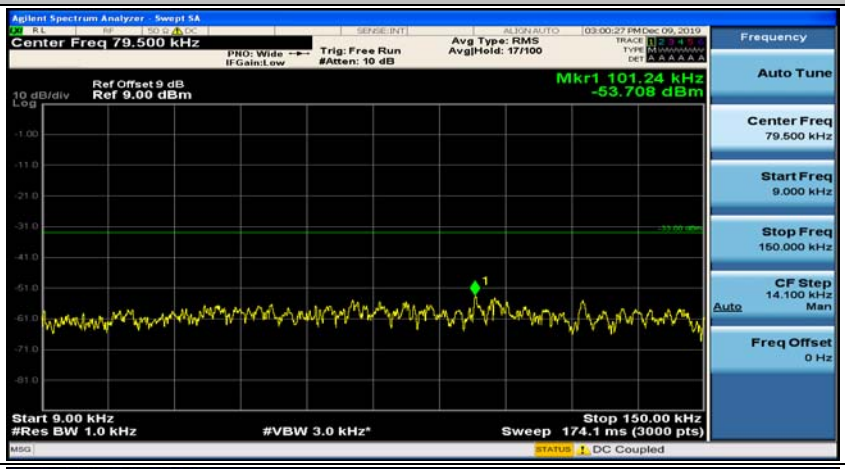
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

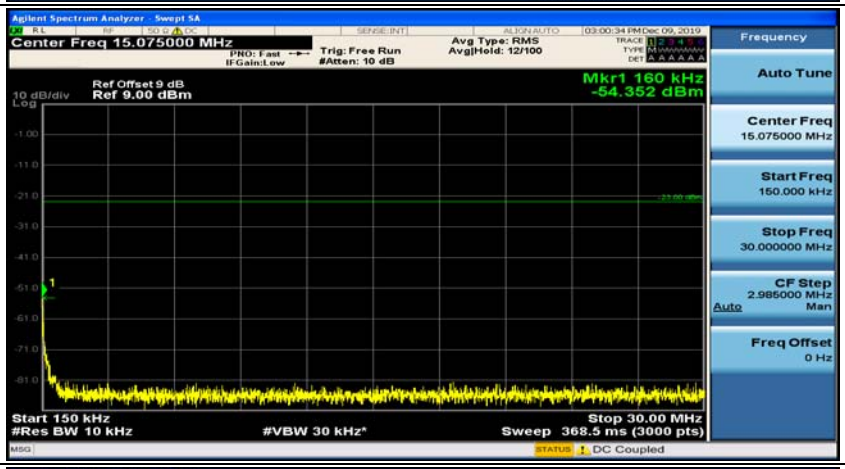

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
02:59:02 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 90.01 kHz
-52.915 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 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

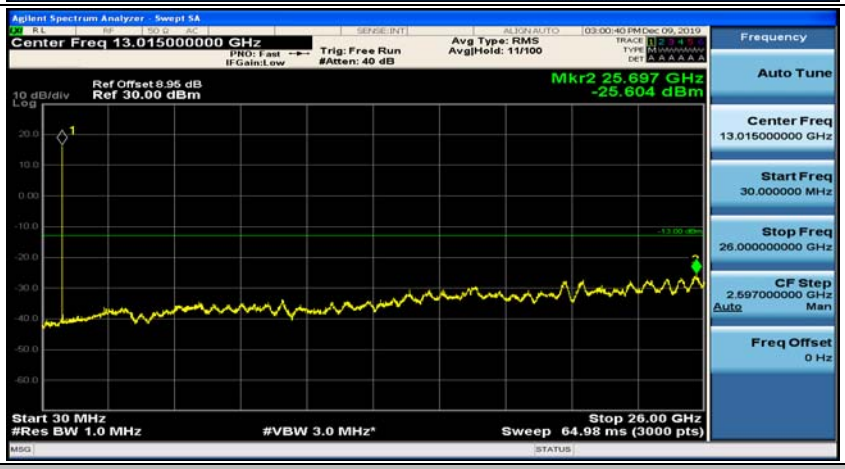

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
02:59:14 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-55.777 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 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: 11/100
02:59:20 PM Dec 09, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.671 GHz
-26.145 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 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

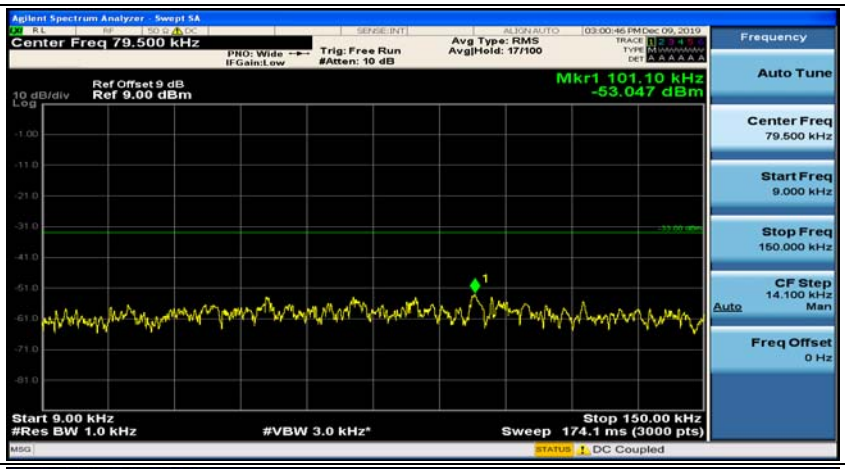
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

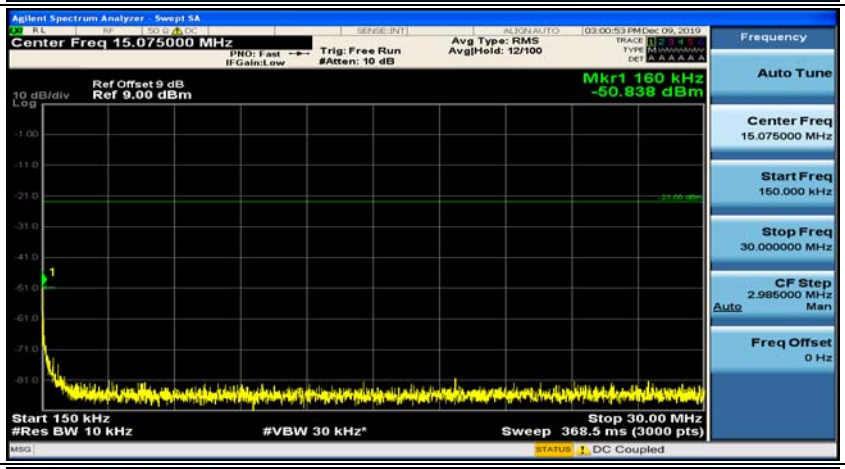




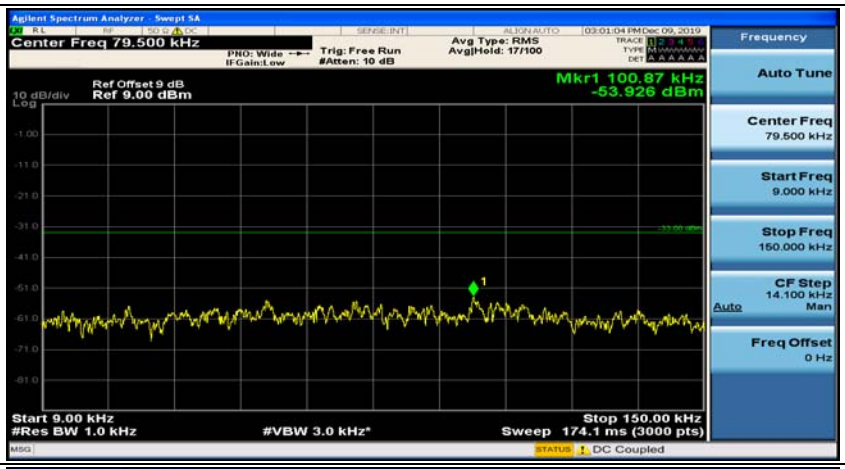


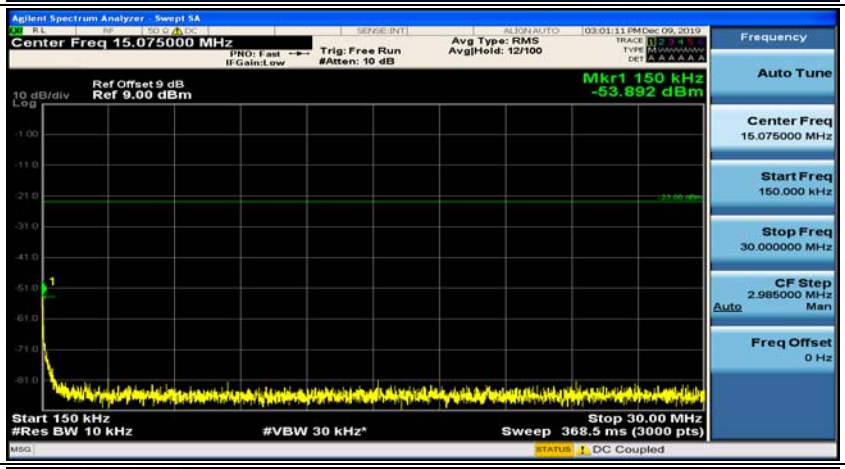
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

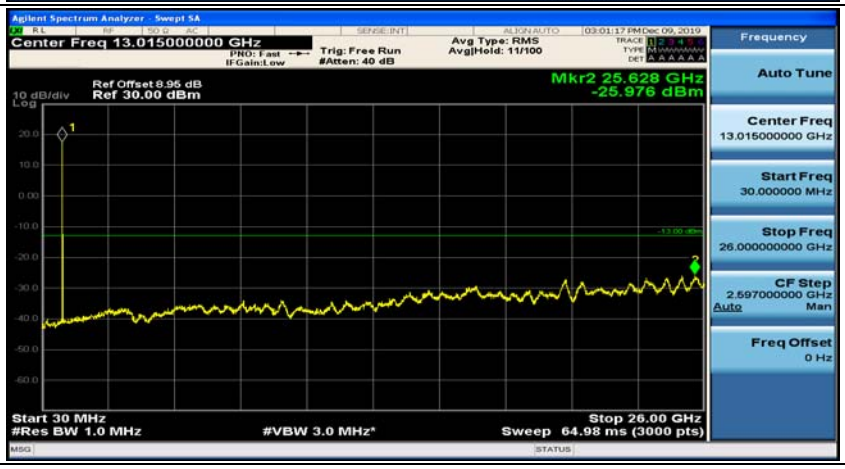


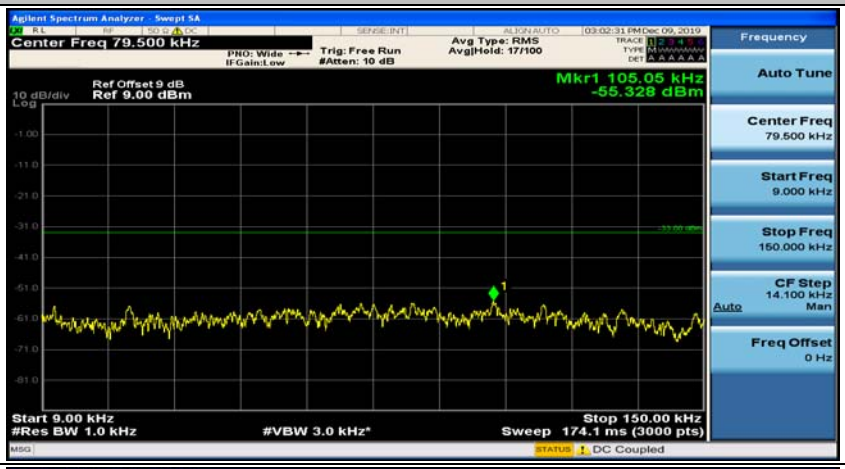
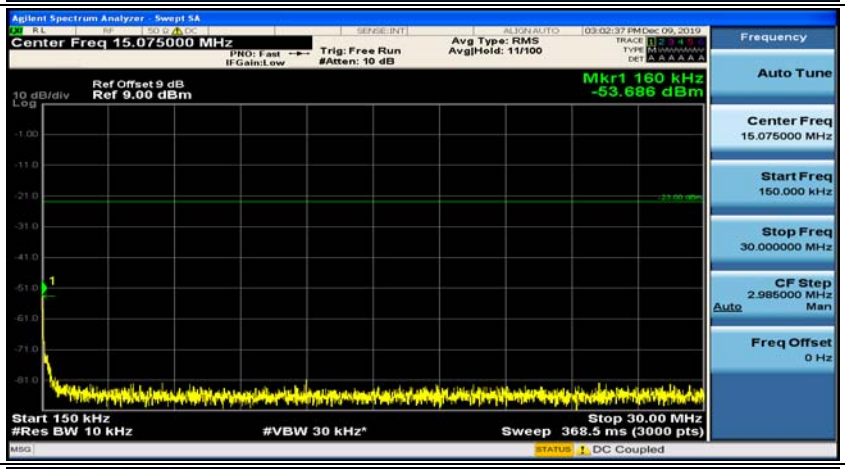
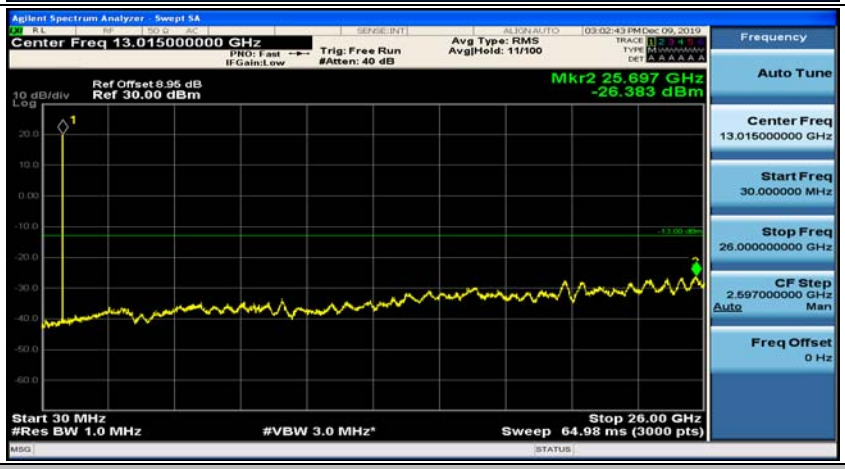


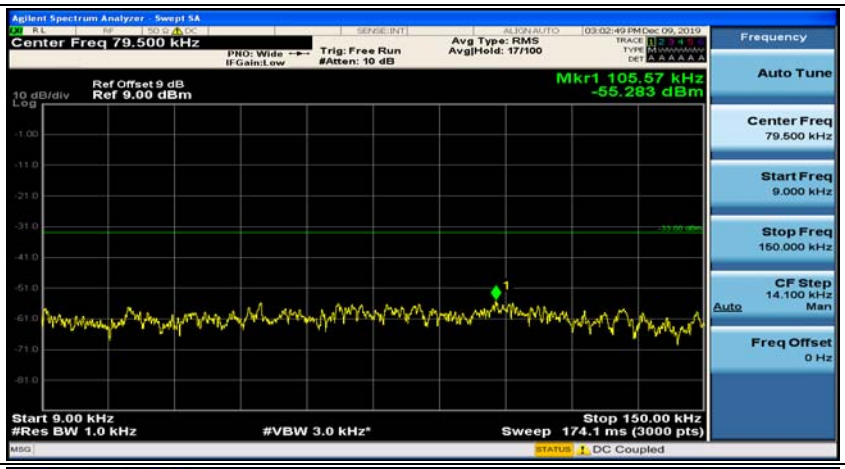
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

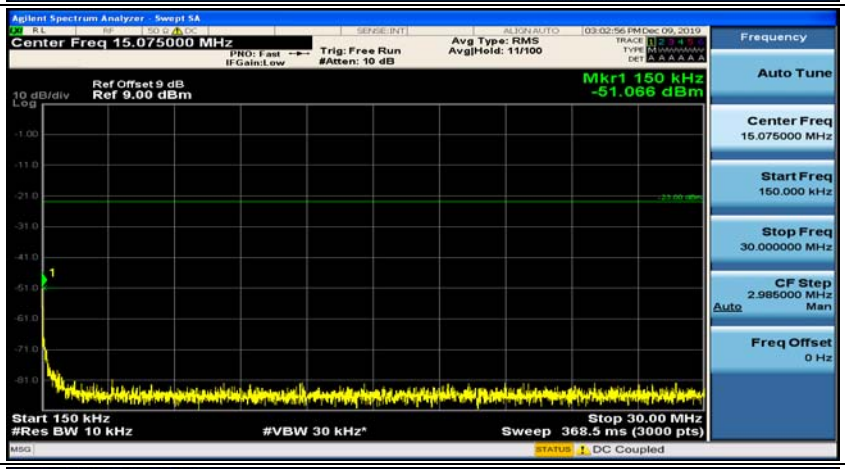

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:01:04 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 100.87 kHz
-53.926 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 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

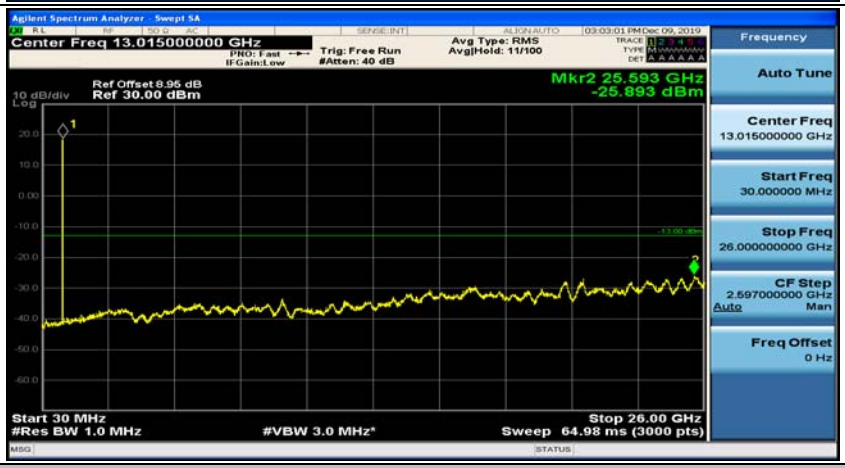

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
03:01:11 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-53.892 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 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: 11/100
03:01:17 PM Dec 09, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.628 GHz
-25.976 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 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

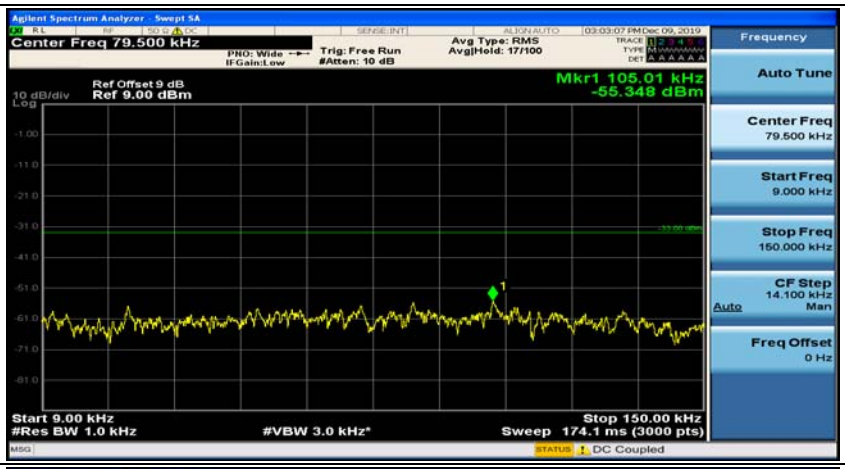
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

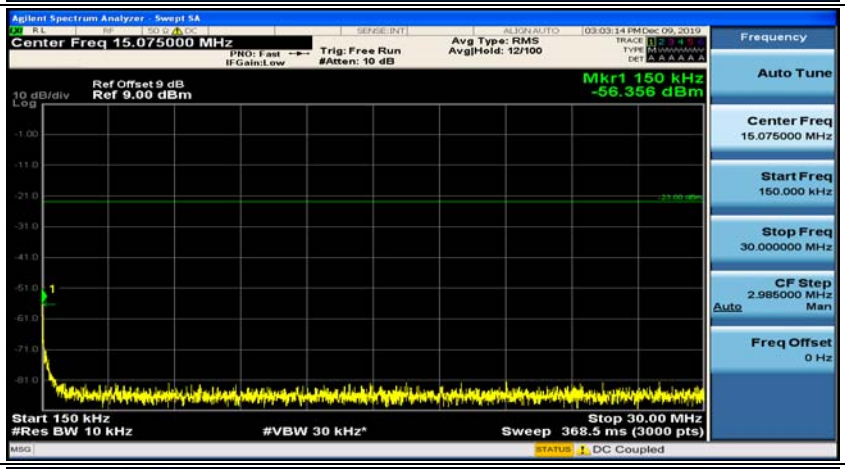


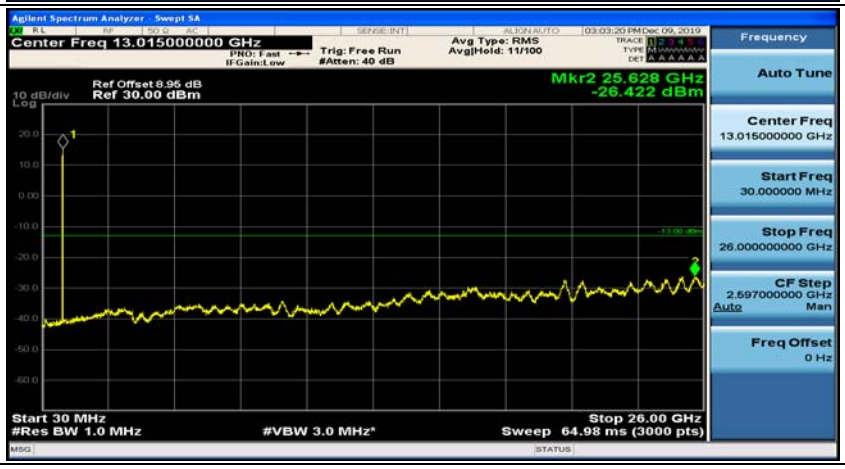




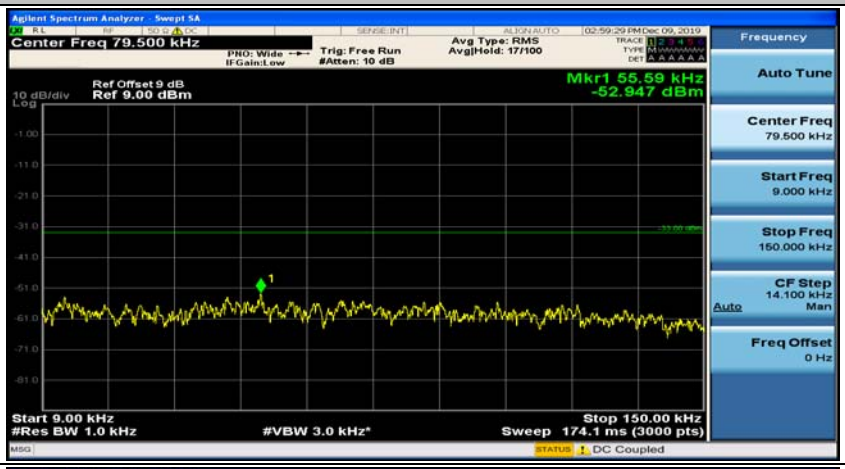
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

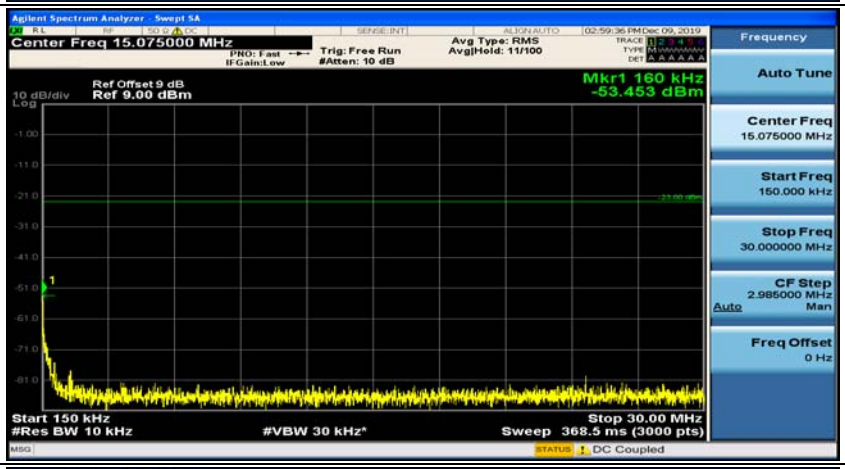

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:03:07 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 105.01 kHz
-55.348 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 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

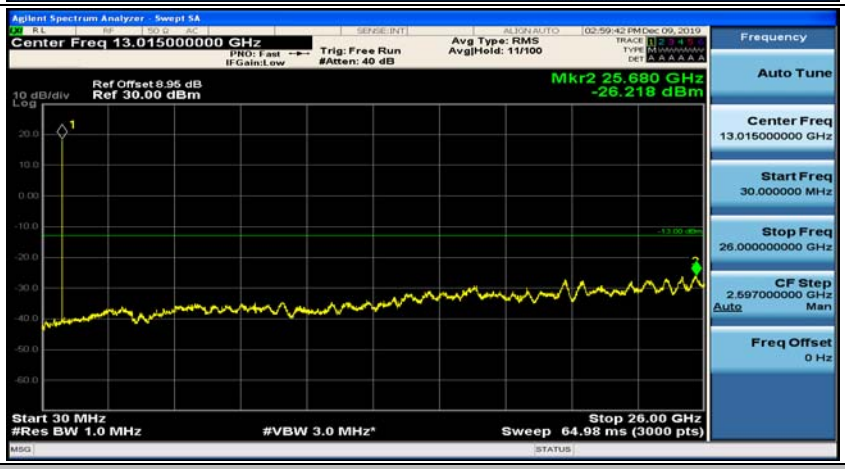

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
03:03:14 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-56.356 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 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: 11/100
03:03:20 PM Dec 09, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.628 GHz
-26.422 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 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

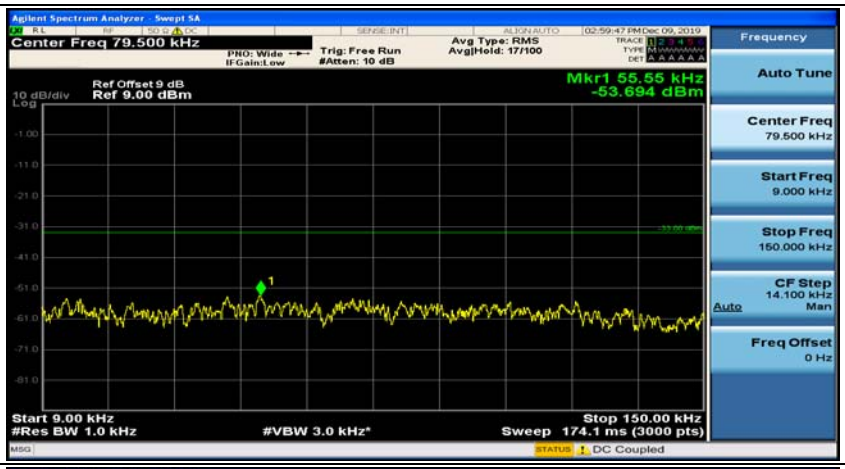
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

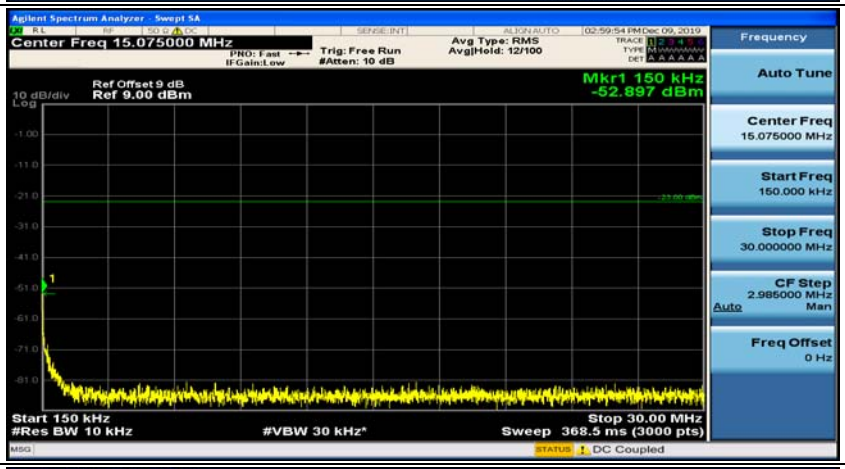


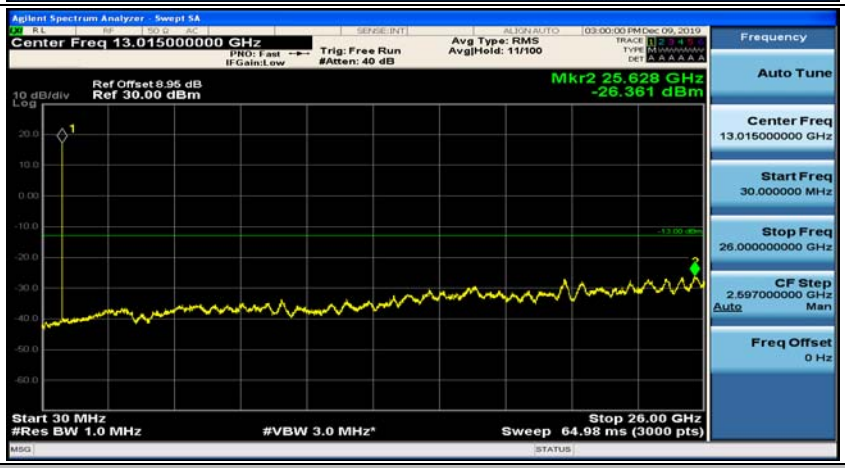




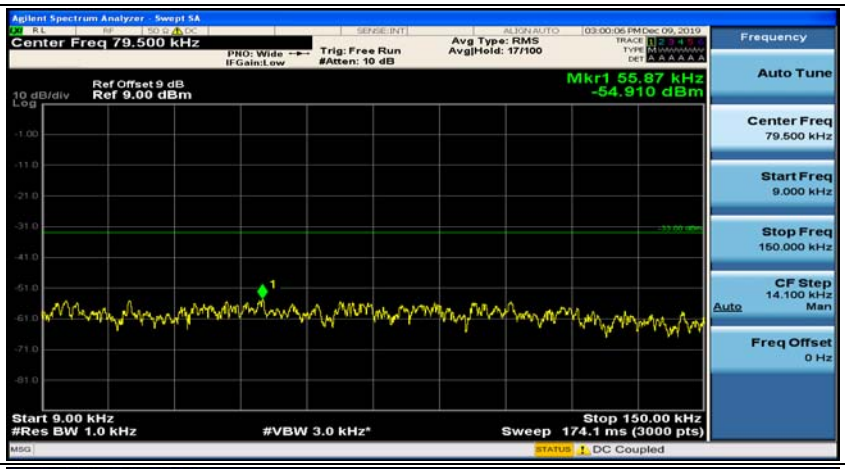
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

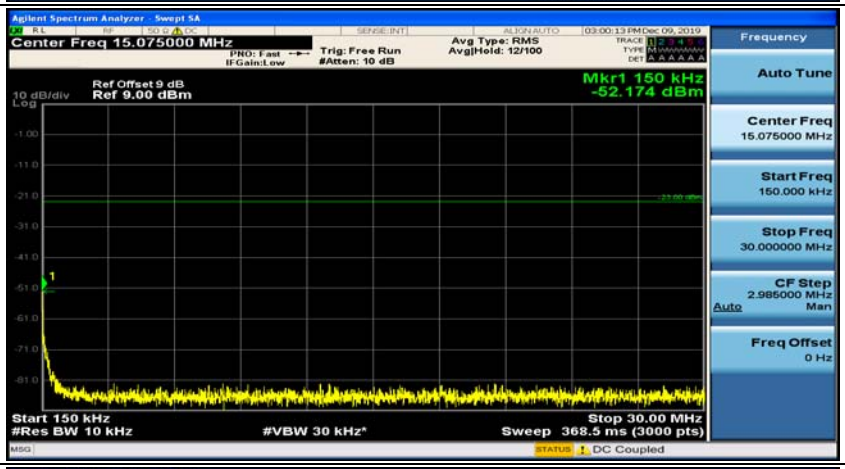


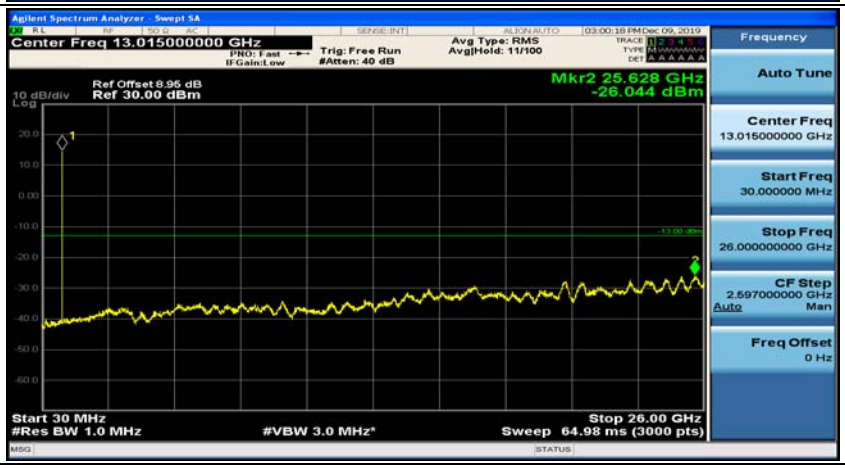




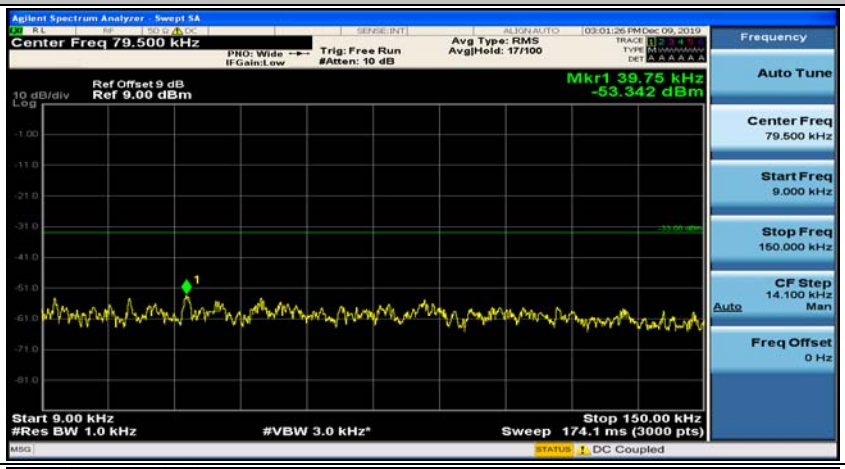
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

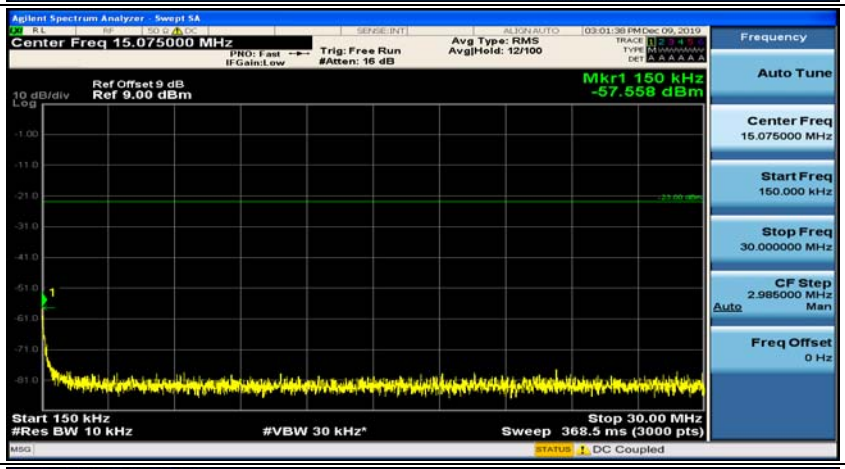

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:00:06 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 55.87 kHz
-54.910 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 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

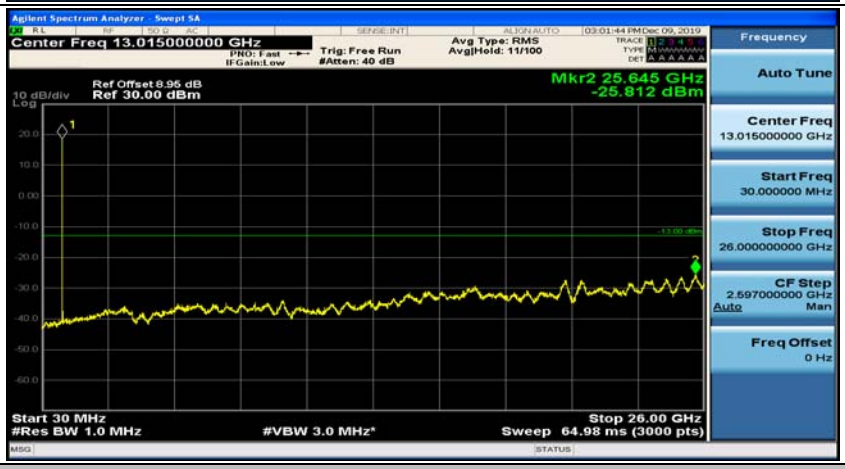

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
03:00:13 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-52.174 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 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: 11/100
03:00:18 PM Dec 09, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.628 GHz
-26.044 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 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

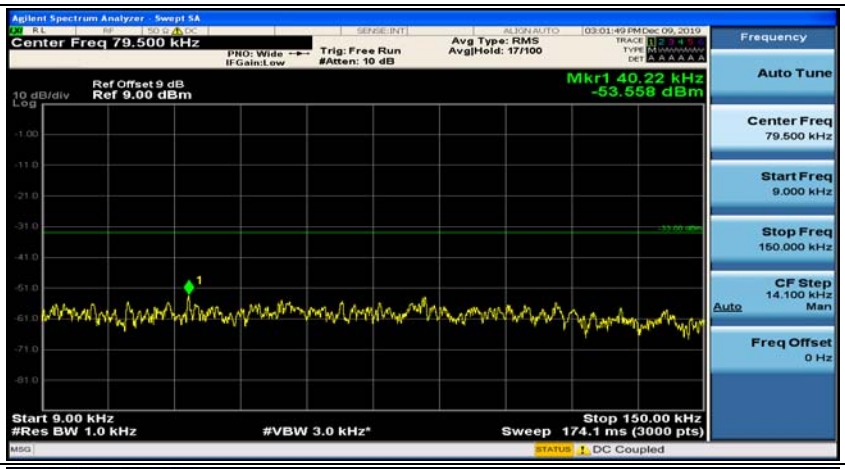
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

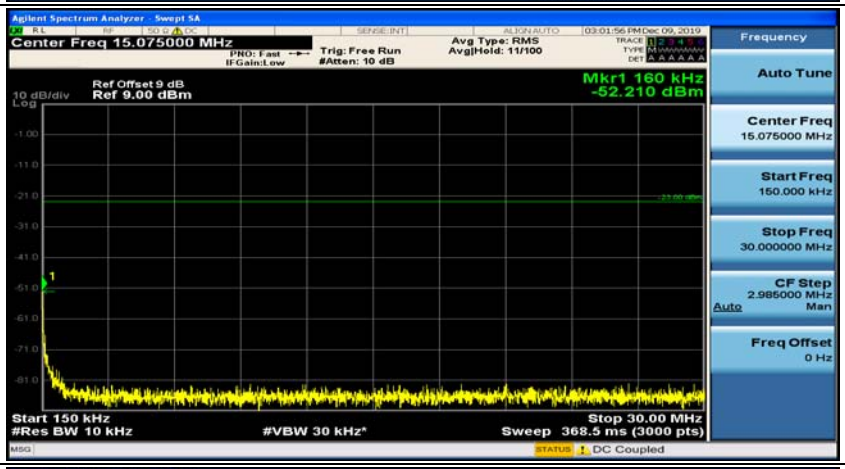


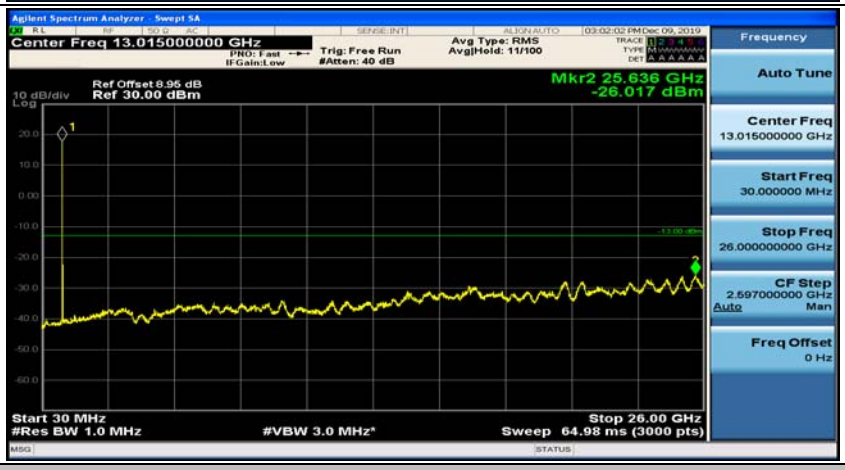




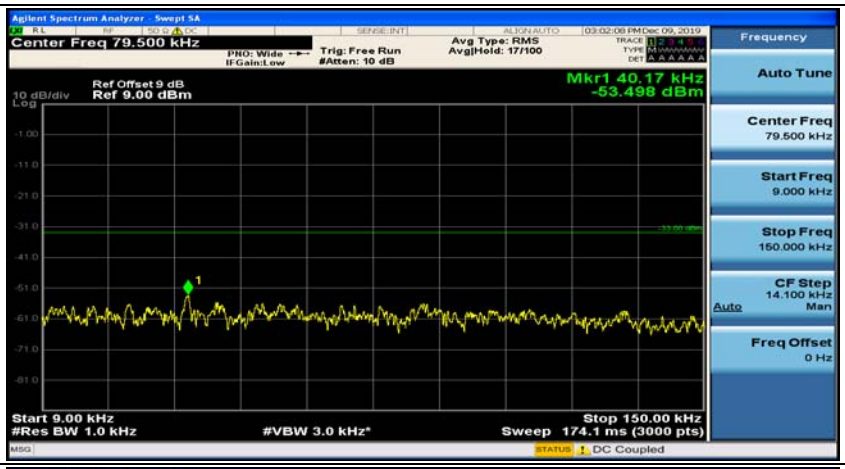
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

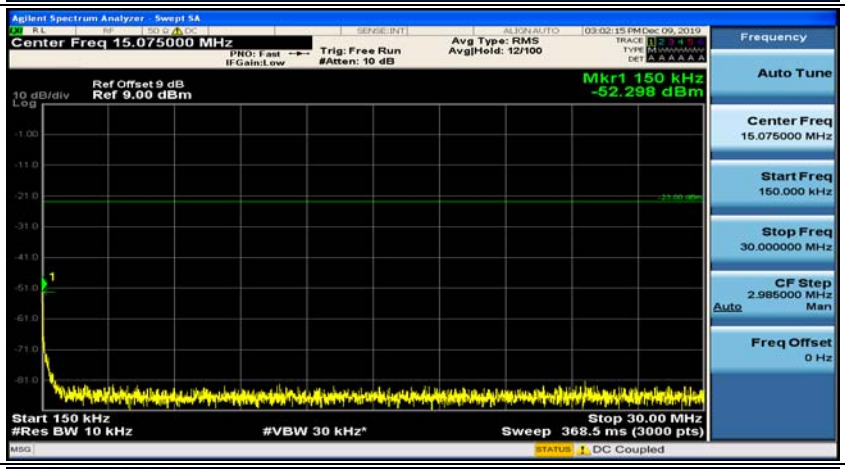


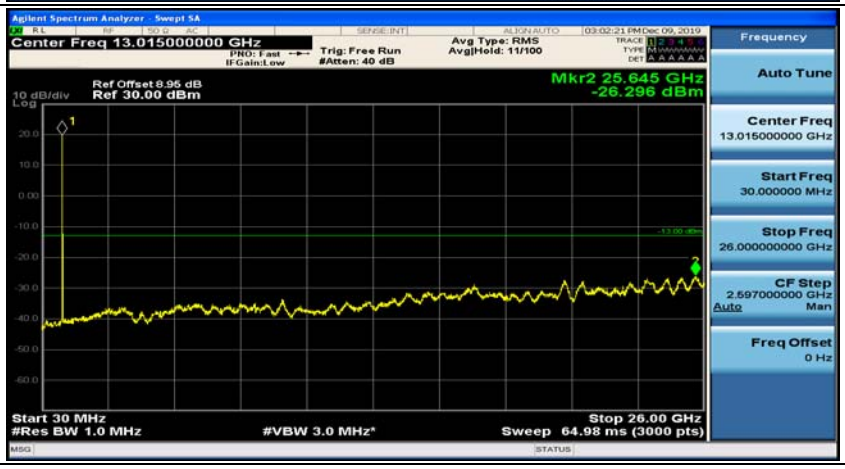




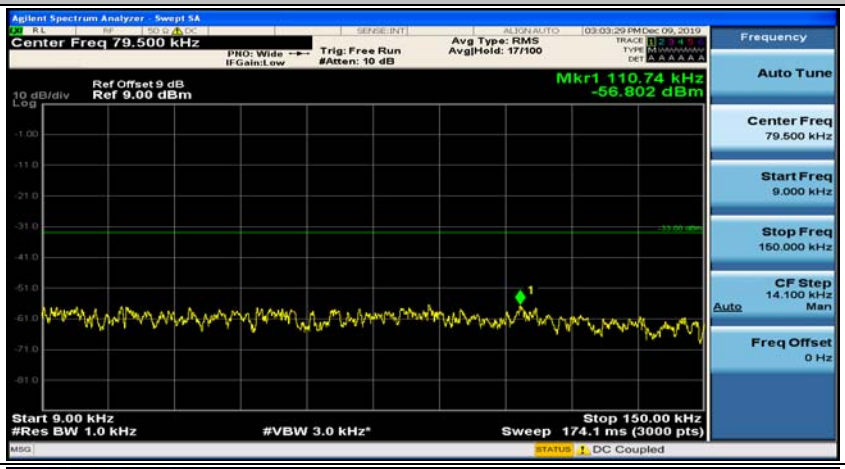
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

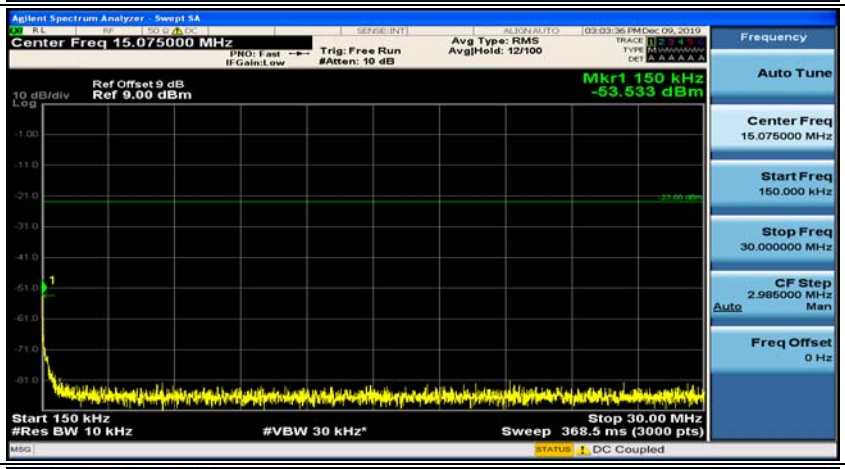

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 40.17 kHz
-53.498 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

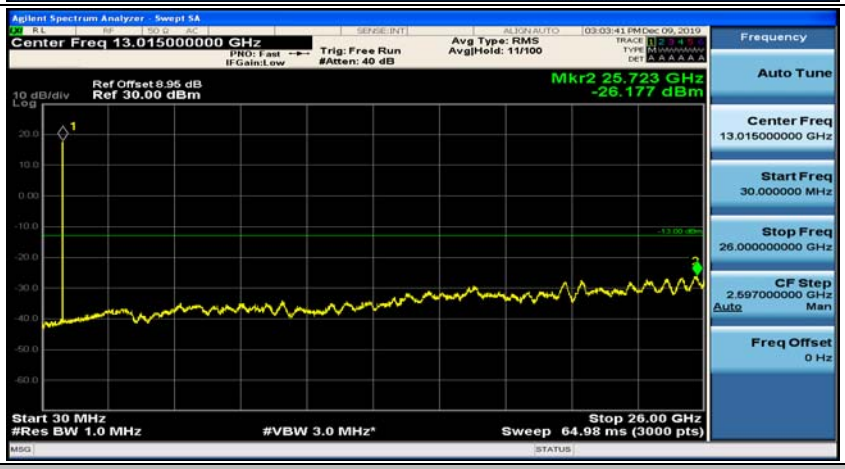

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-52.298 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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: 11/100
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.645 GHz
-26.296 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 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

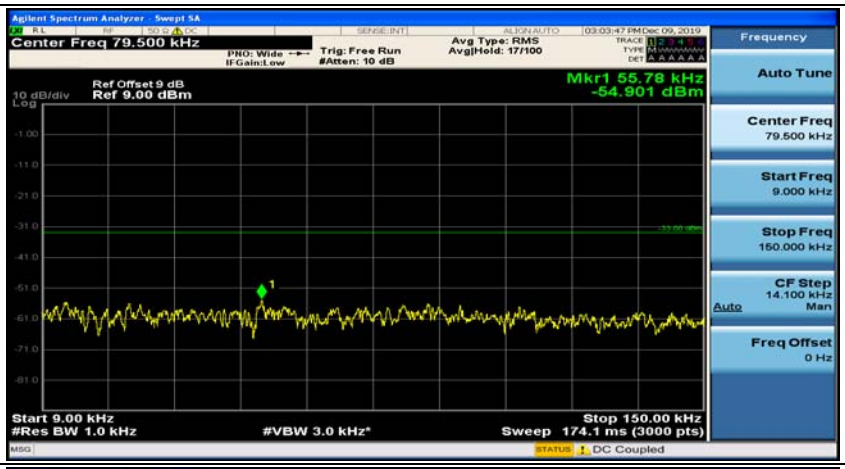
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

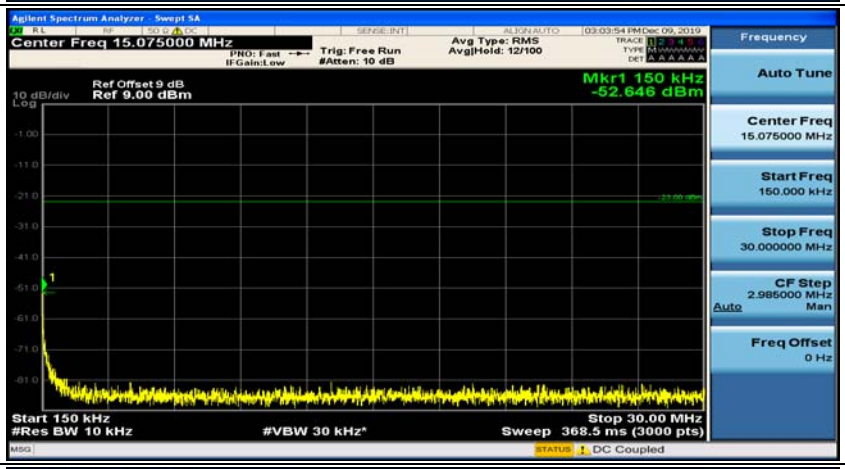


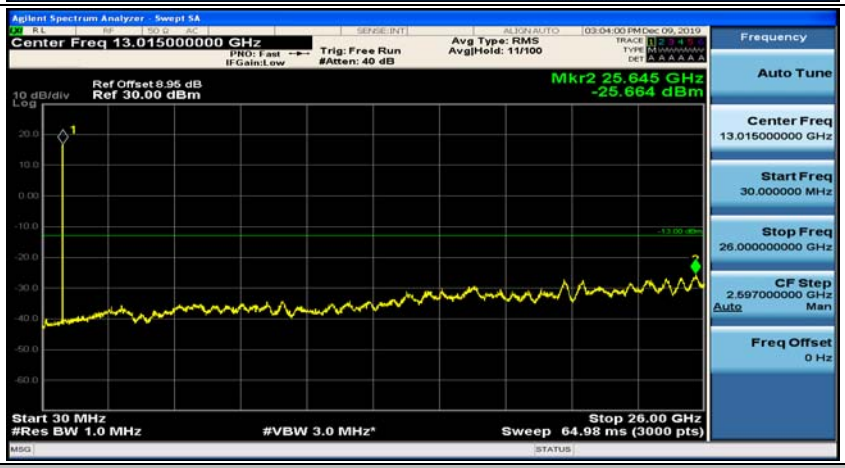




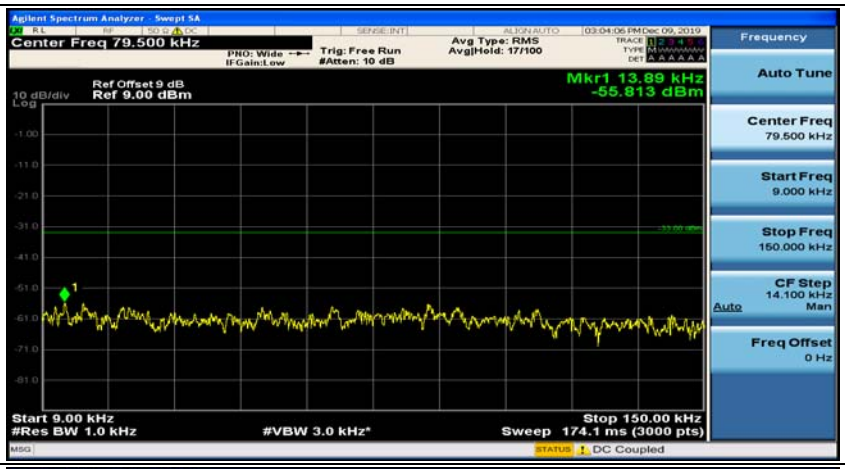
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

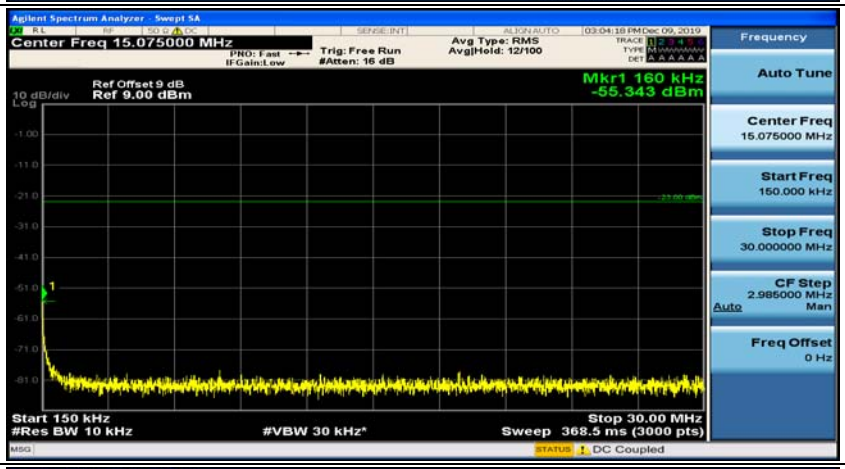


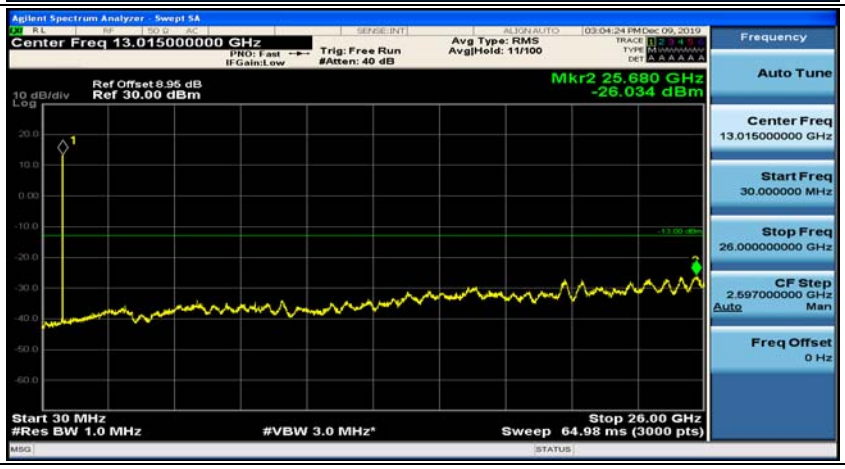




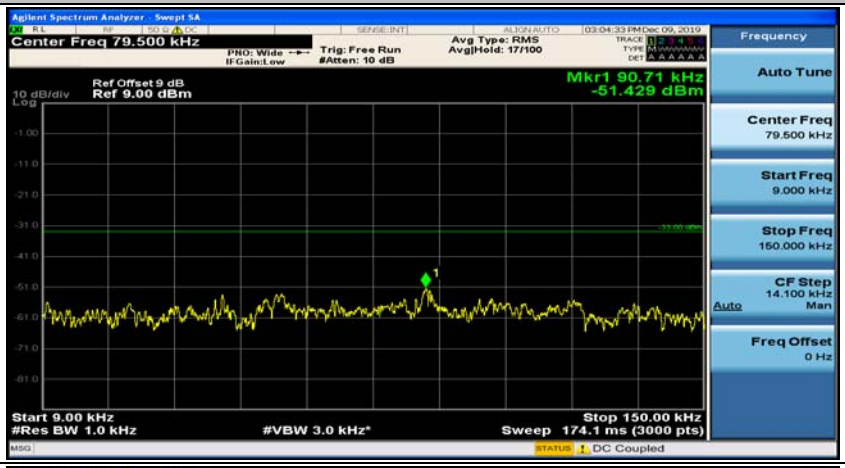
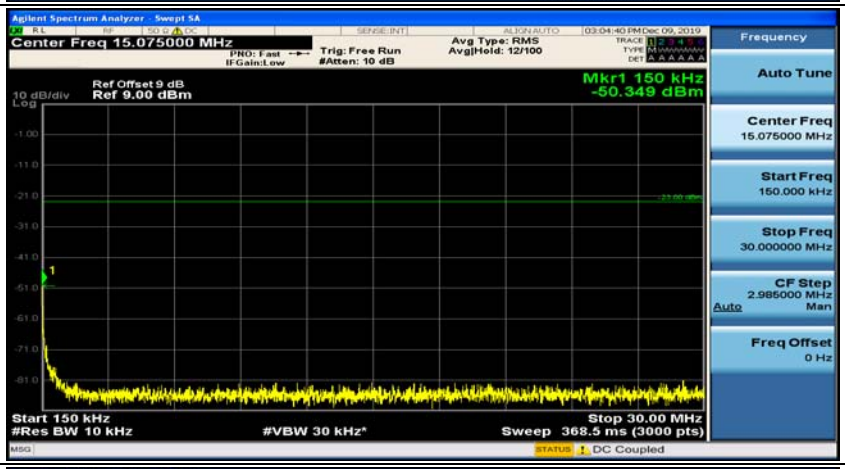
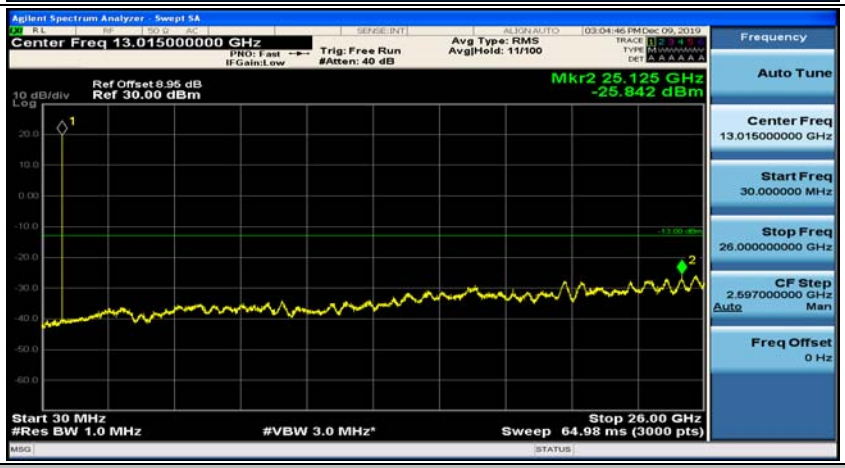
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

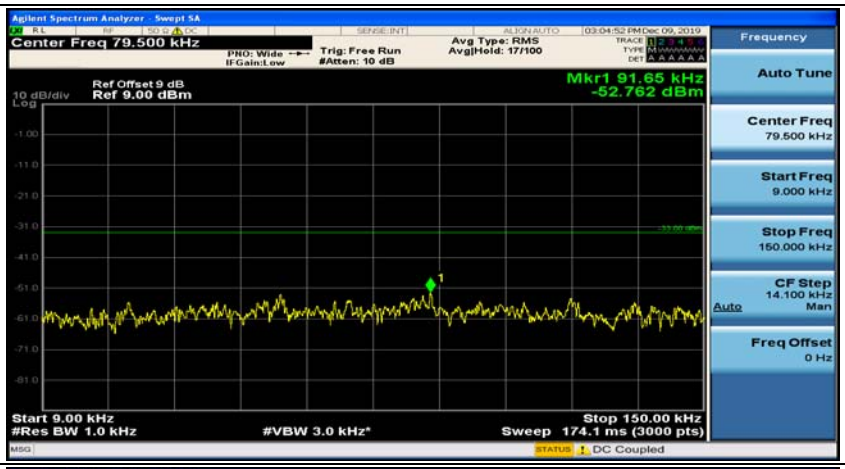

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 13.89 kHz
-55.813 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

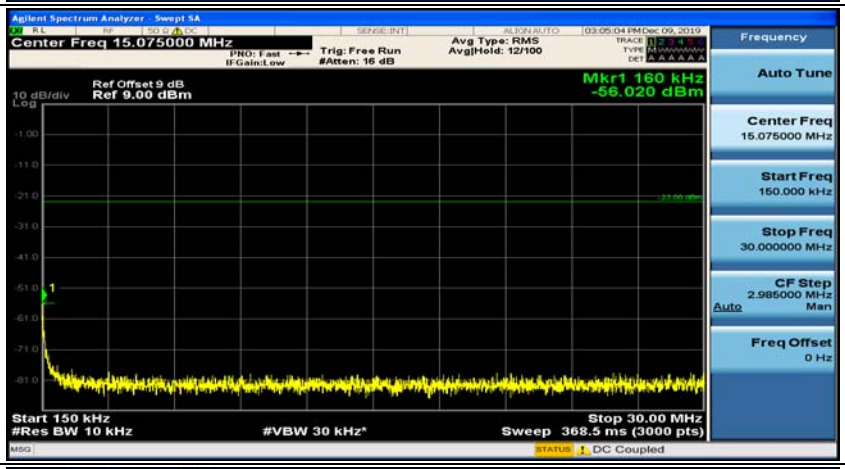

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-55.343 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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: 11/100
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.680 GHz
-26.034 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 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

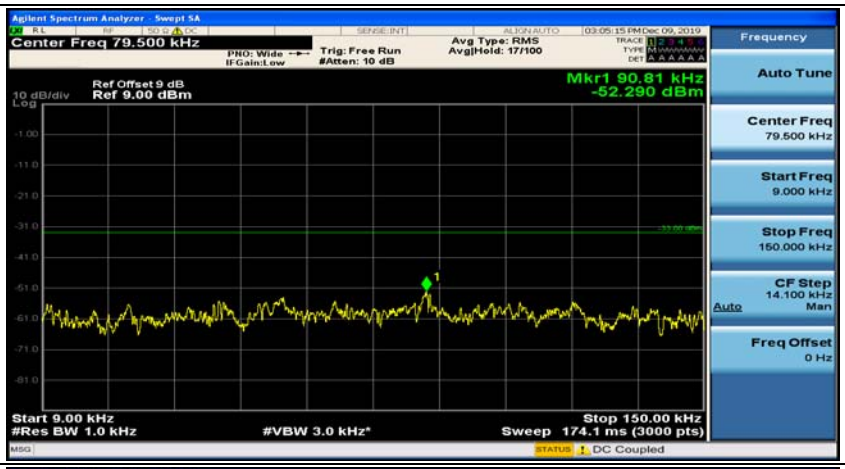
Channel Bandwidth: 10 MHz

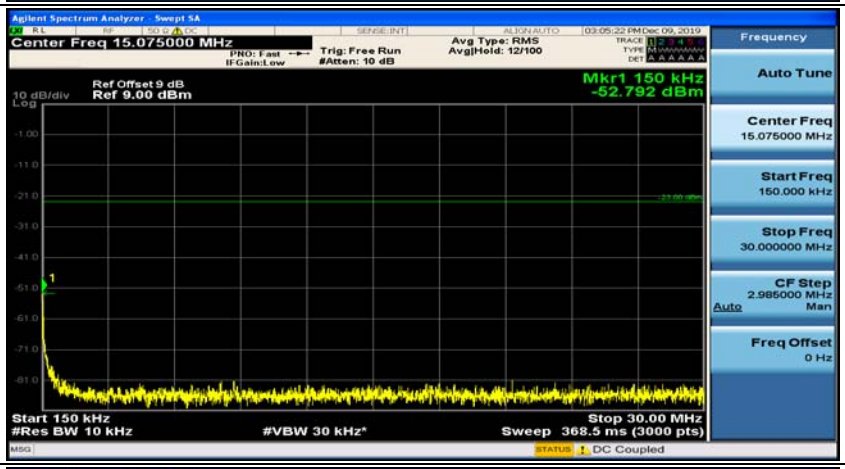
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24

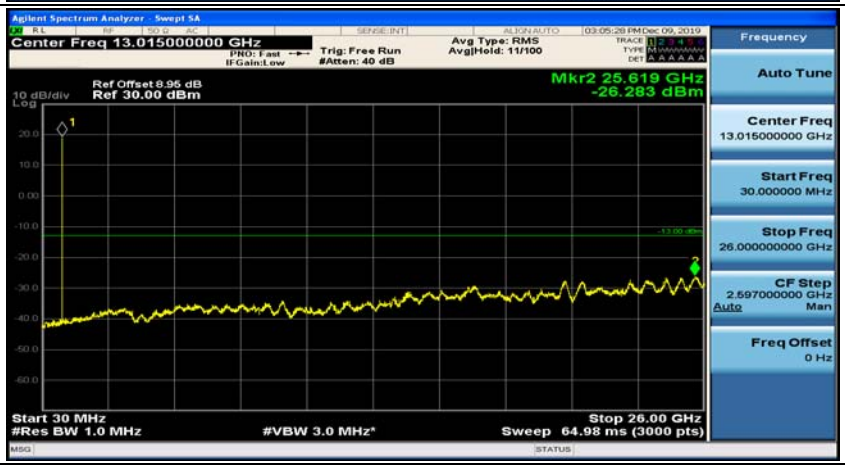


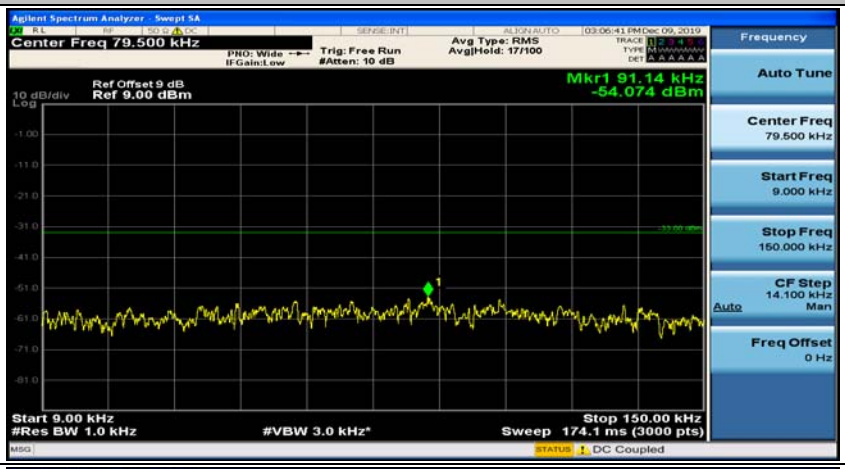
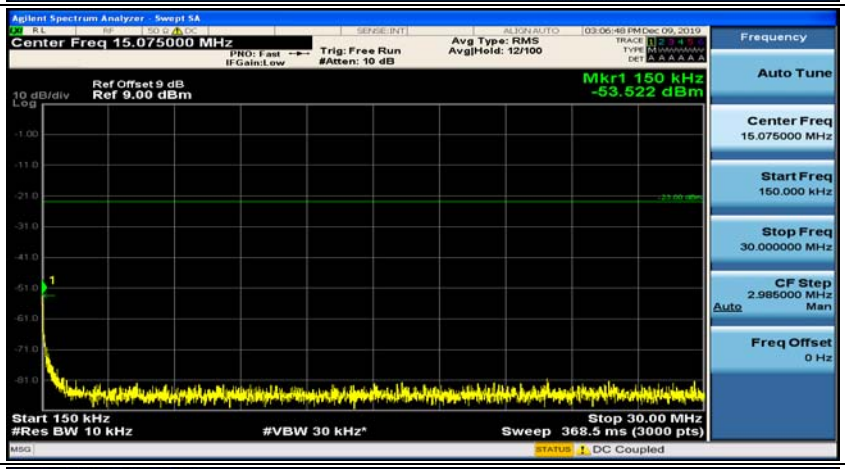
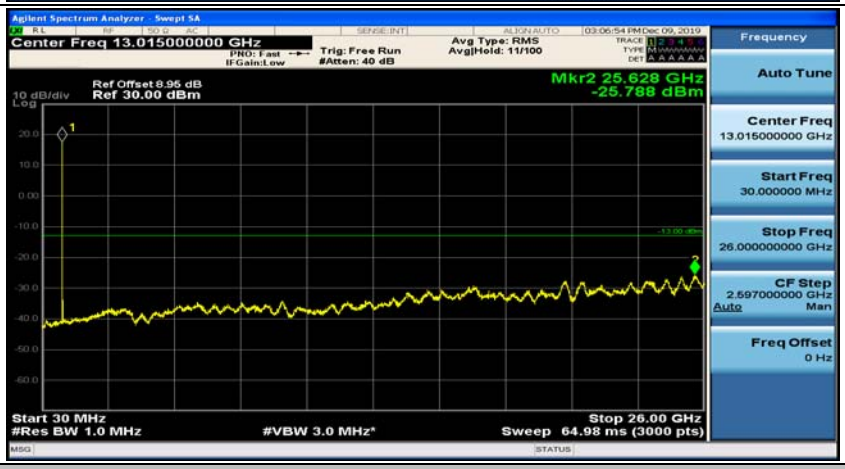


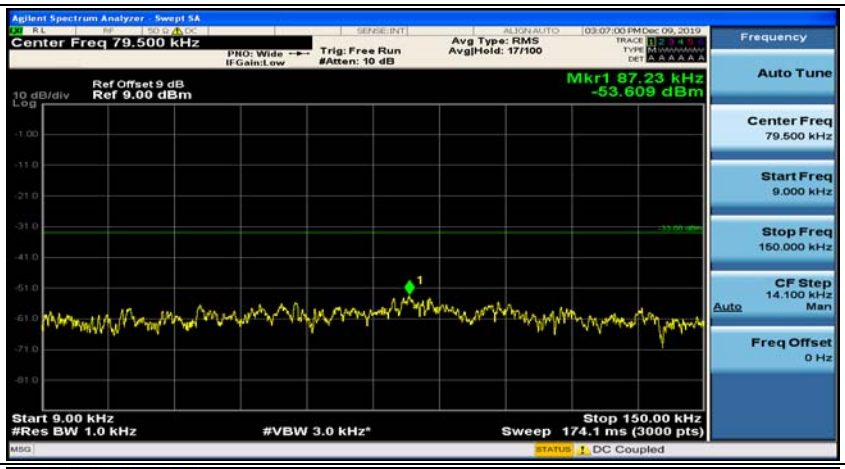
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49

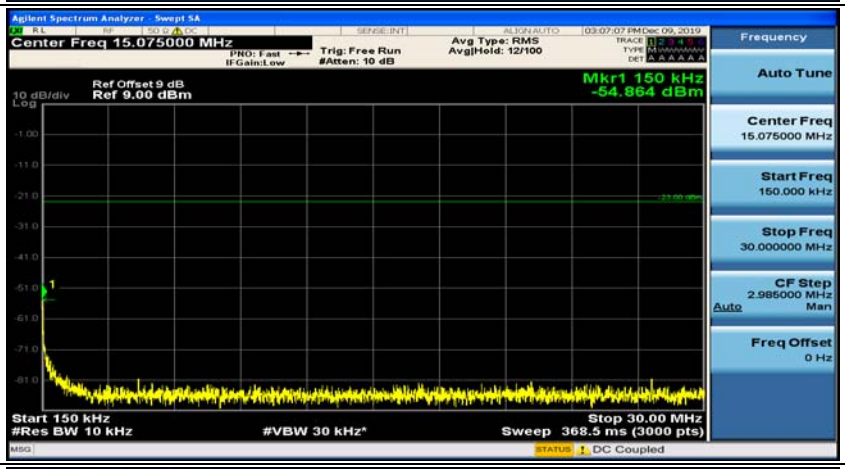

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:05:15 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 90.81 kHz
-52.290 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 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

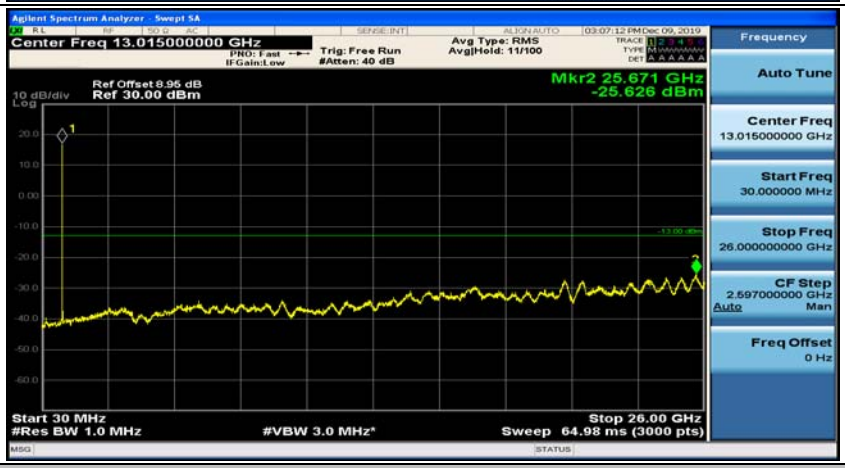

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
03:05:22 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-52.792 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 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: 11/100
03:05:28 PM Dec 09, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.619 GHz
-26.283 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 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

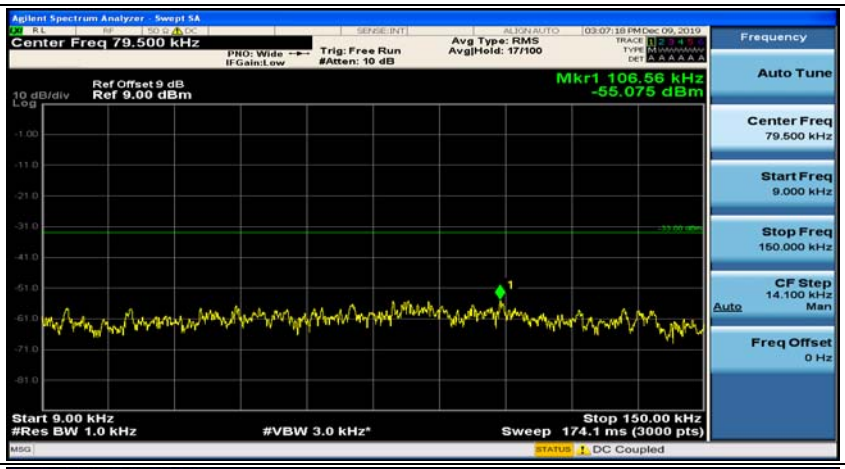
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

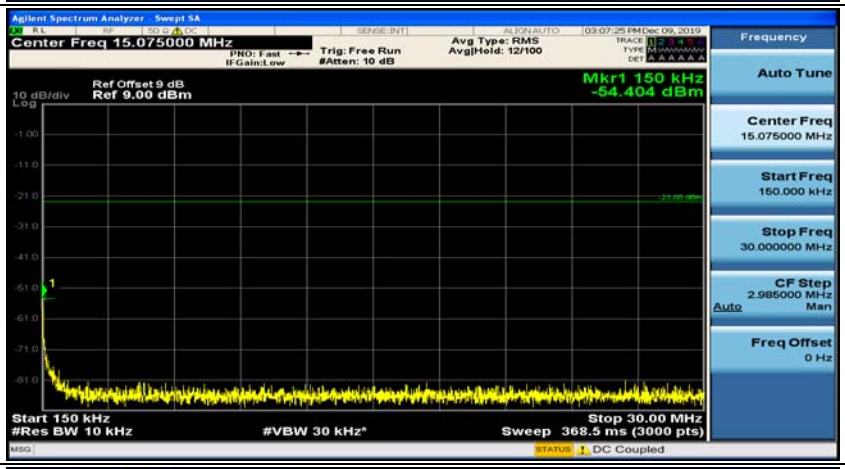


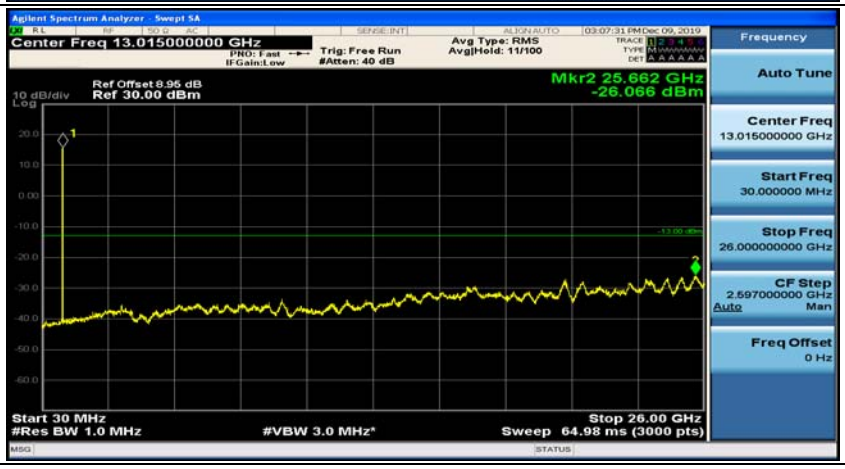


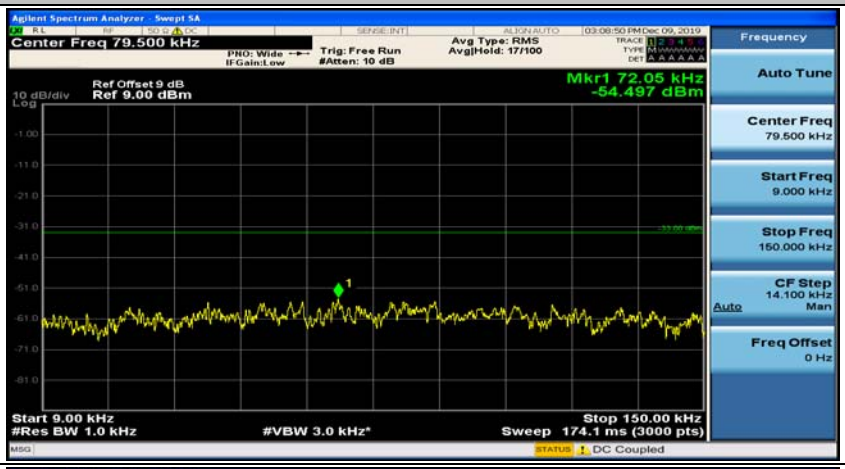
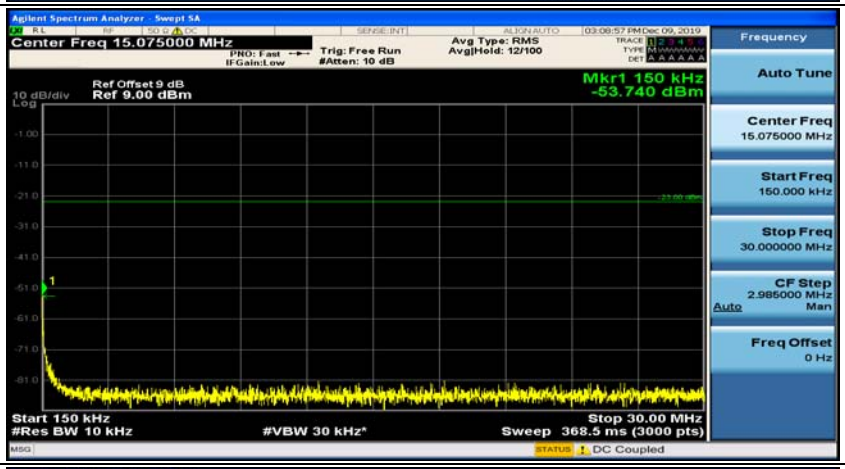
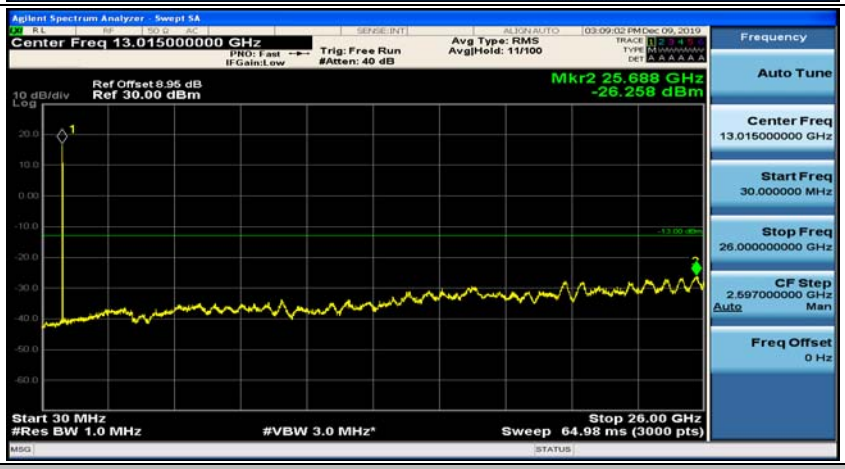


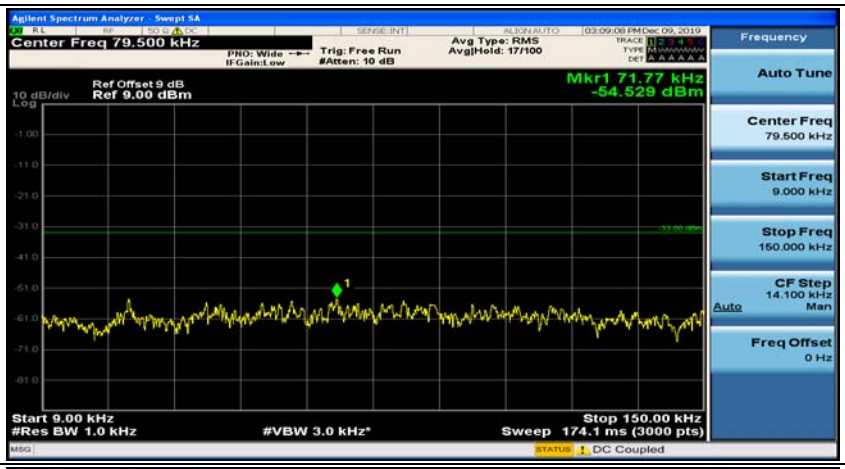
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

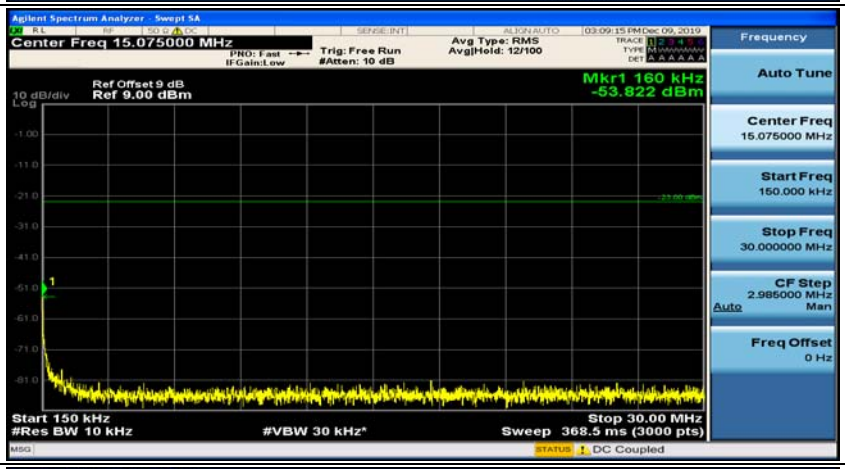

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 106.56 kHz
-55.075 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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

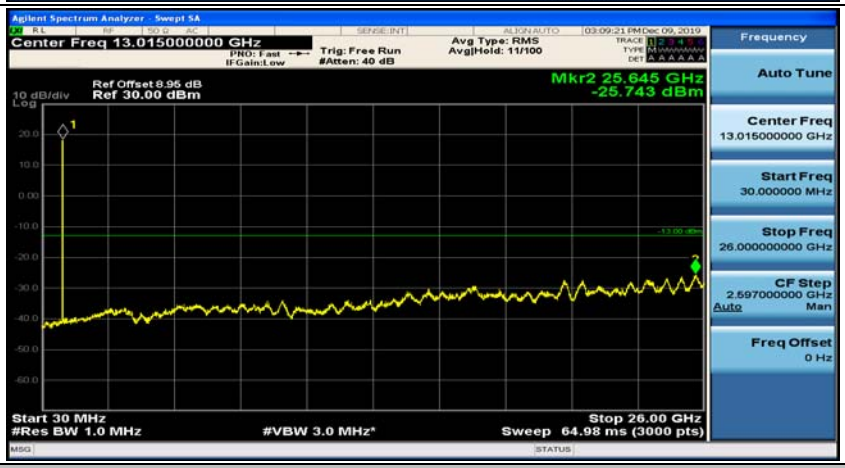

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-54.404 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
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: 11/100
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.662 GHz
-26.066 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 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

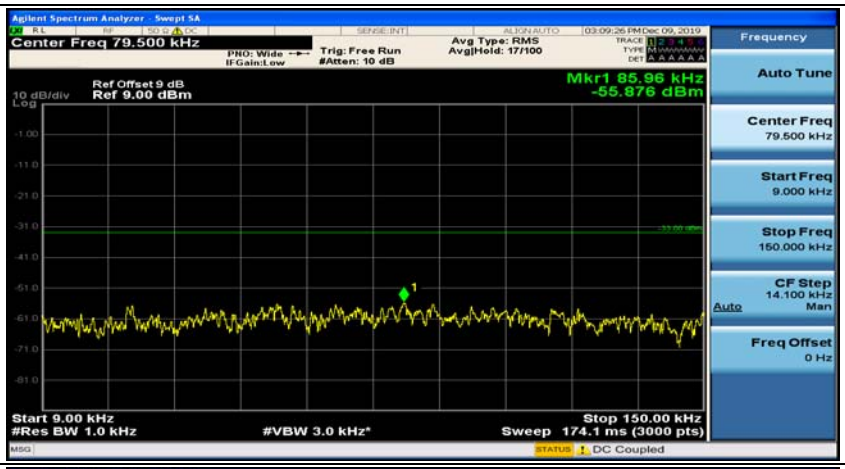
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

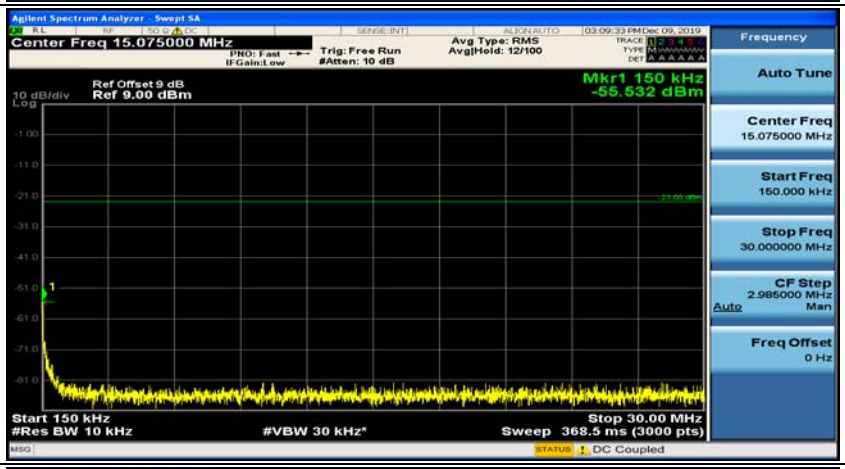


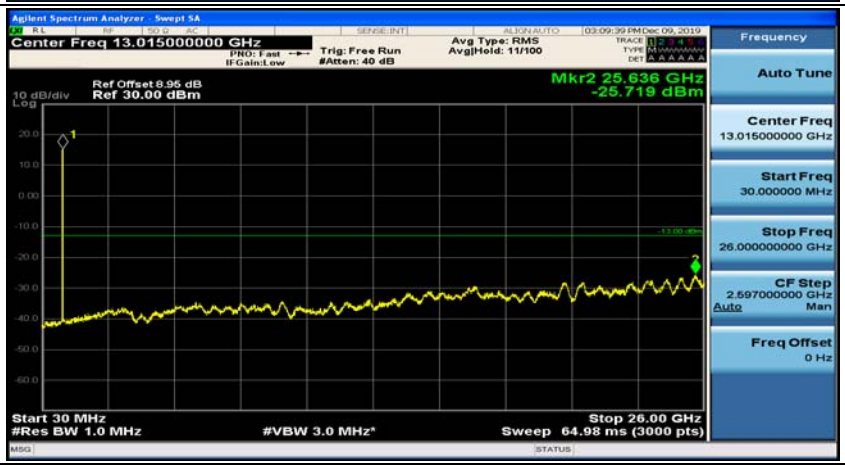


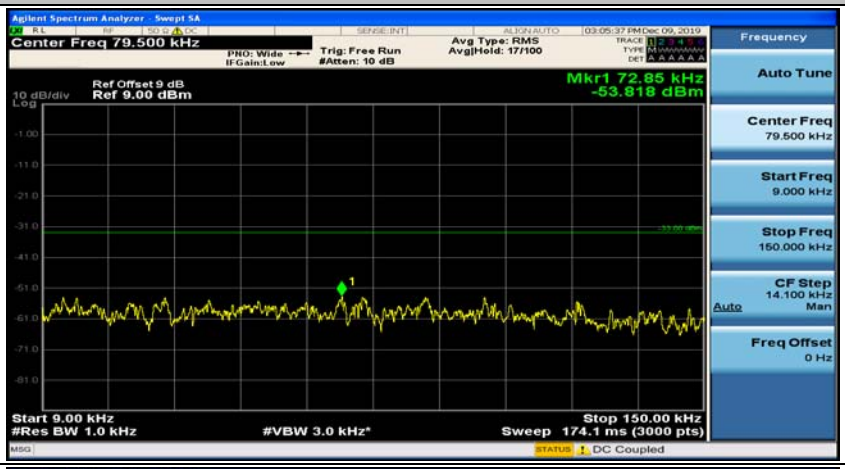
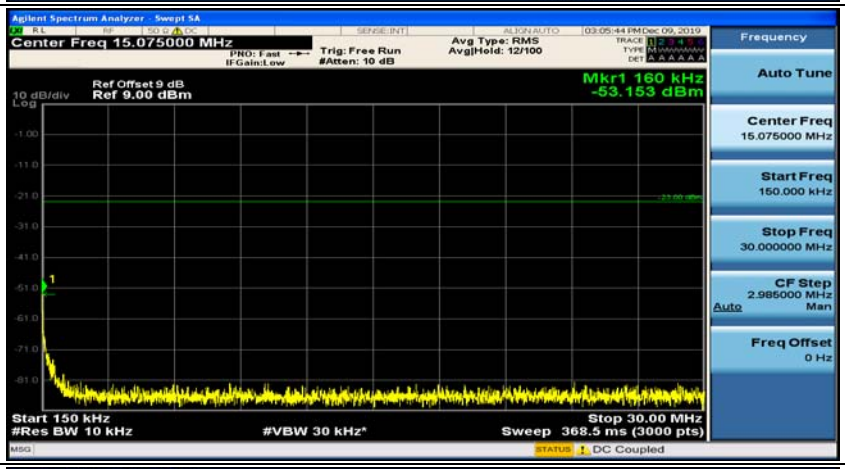
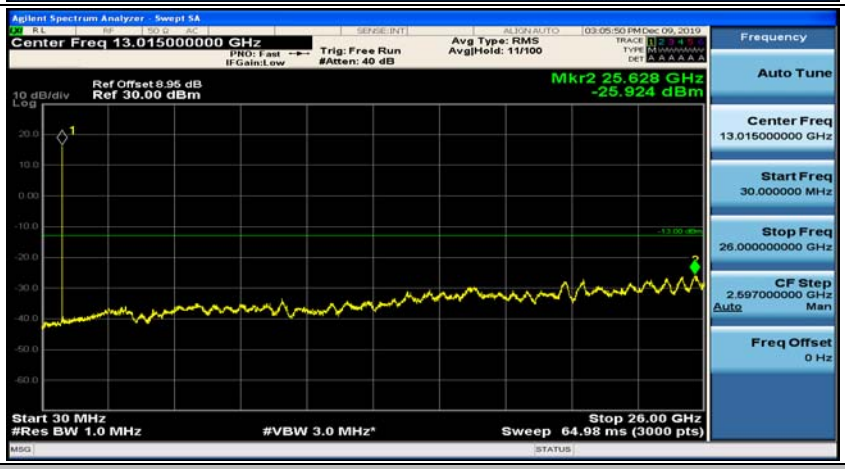


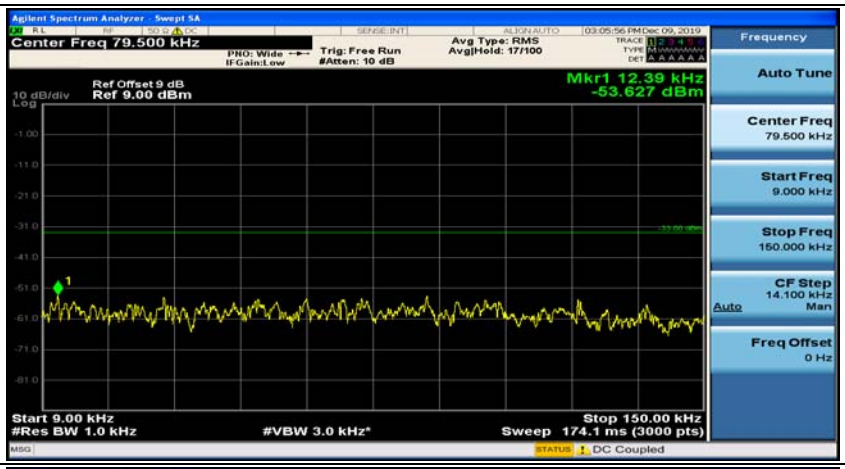
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49

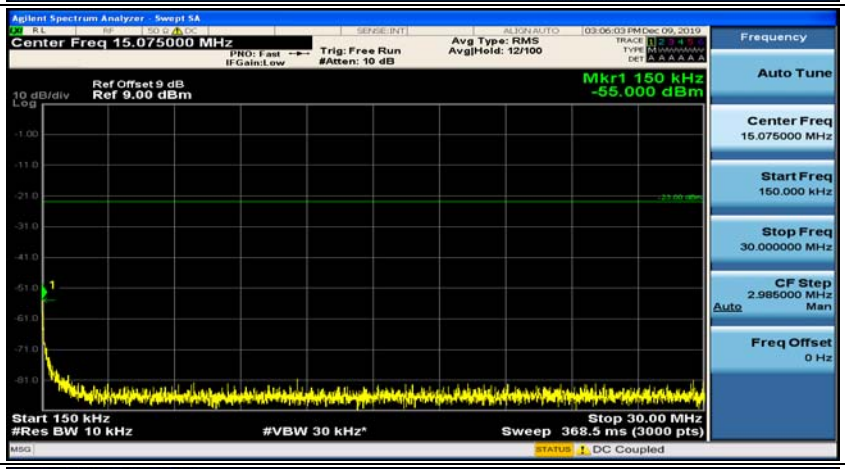

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
03:09:26 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 85.96 kHz
-55.876 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 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

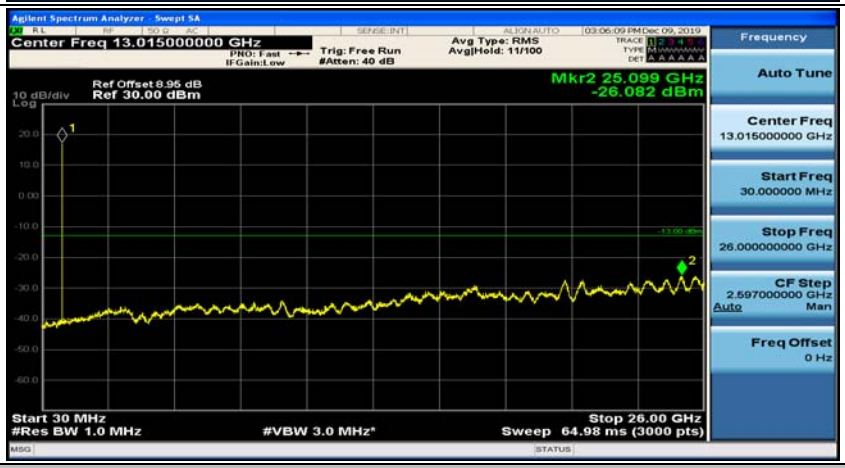

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
03:09:33 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-55.532 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 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: 11/100
03:09:39 PM Dec 09, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.636 GHz
-25.719 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 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

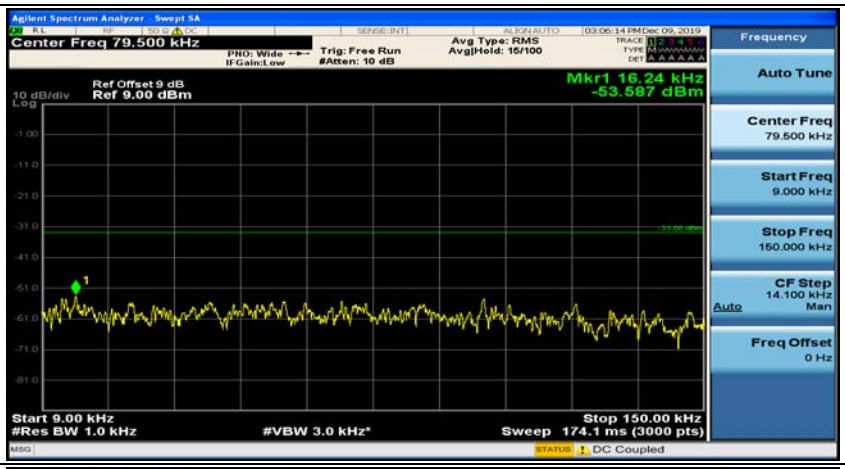
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

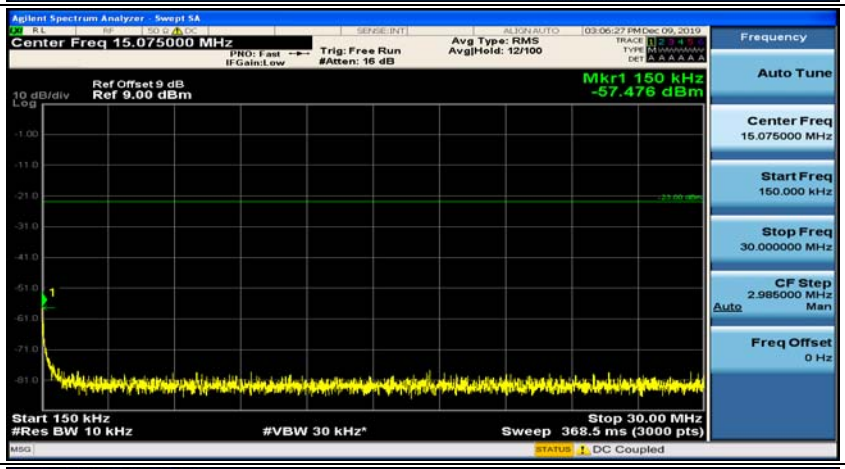


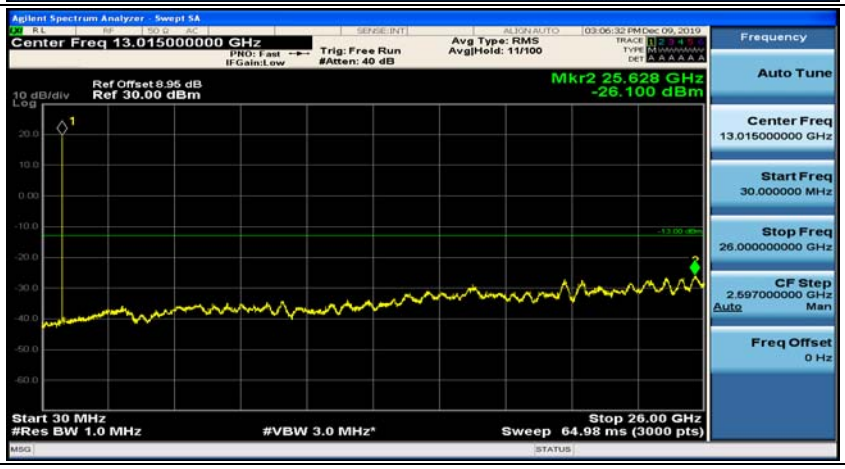


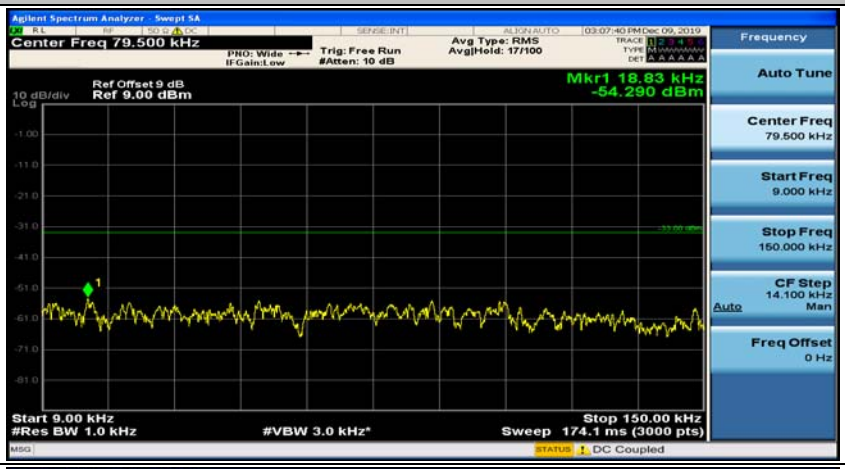
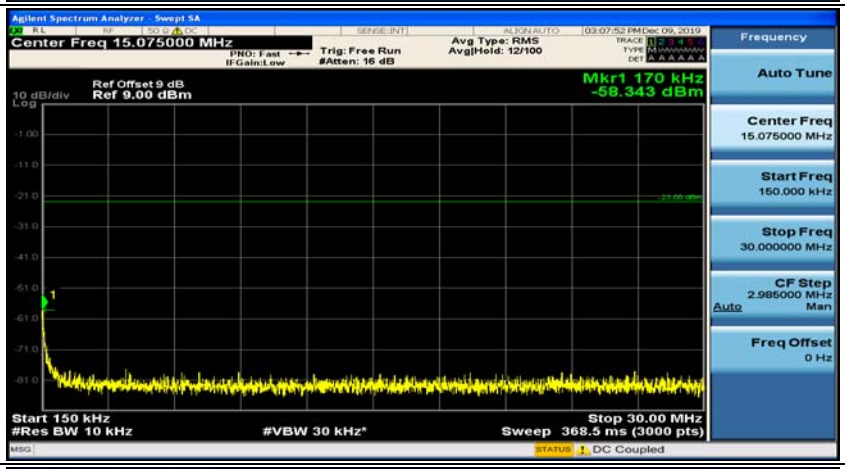
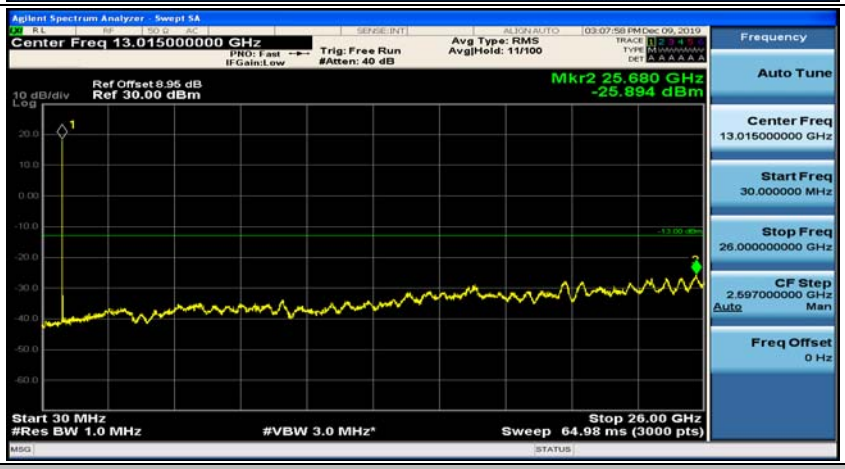


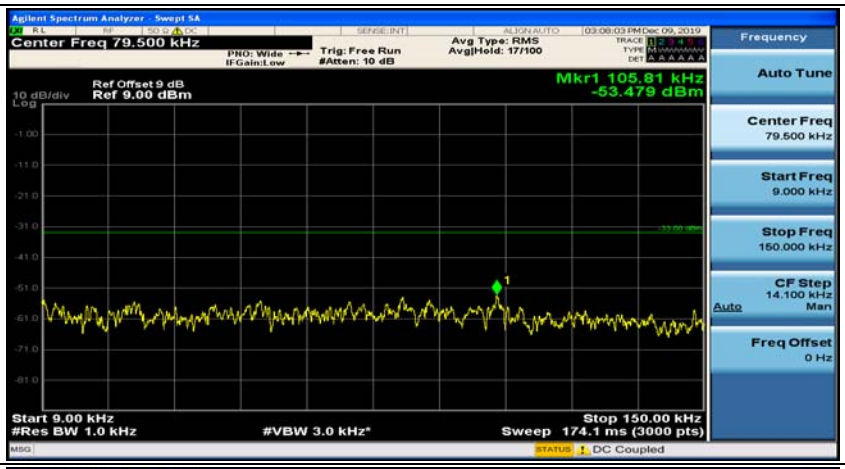
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49

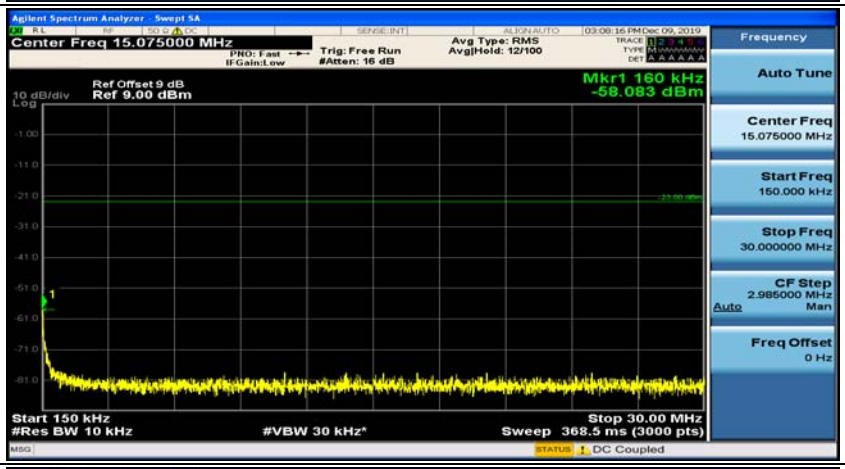

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 15/100
03:06:14 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 16.24 kHz
-53.587 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 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

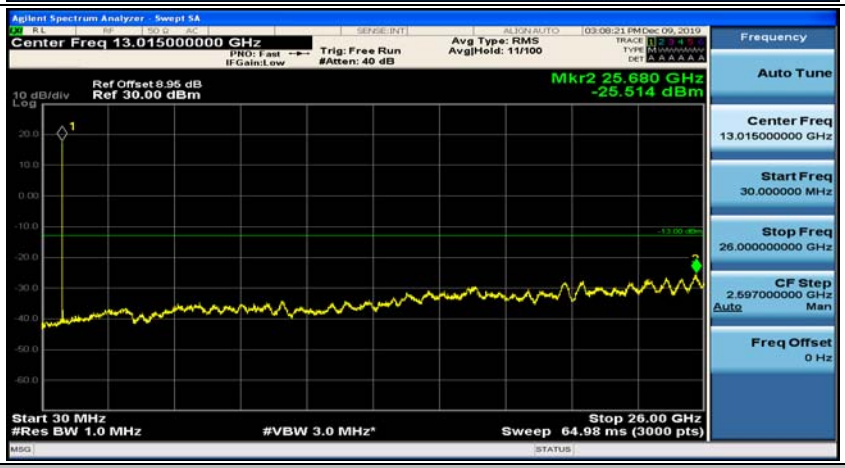

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
03:06:27 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-57.476 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 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: 11/100
03:06:32 PM Dec 09, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.628 GHz
-26.100 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 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

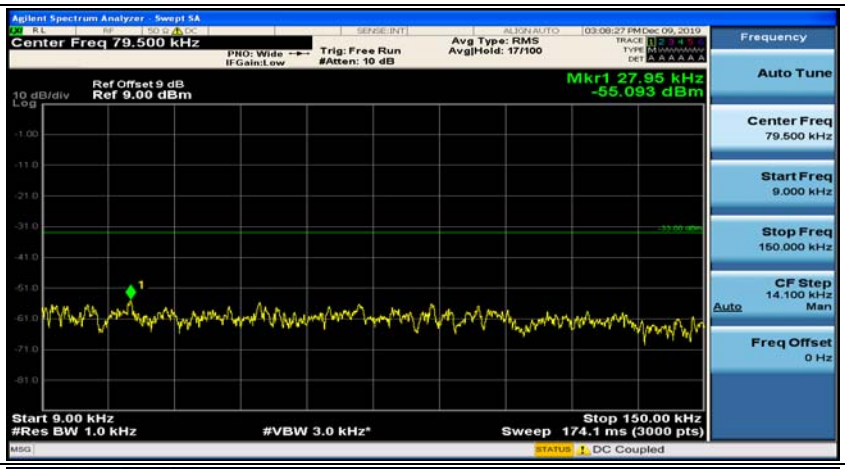
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

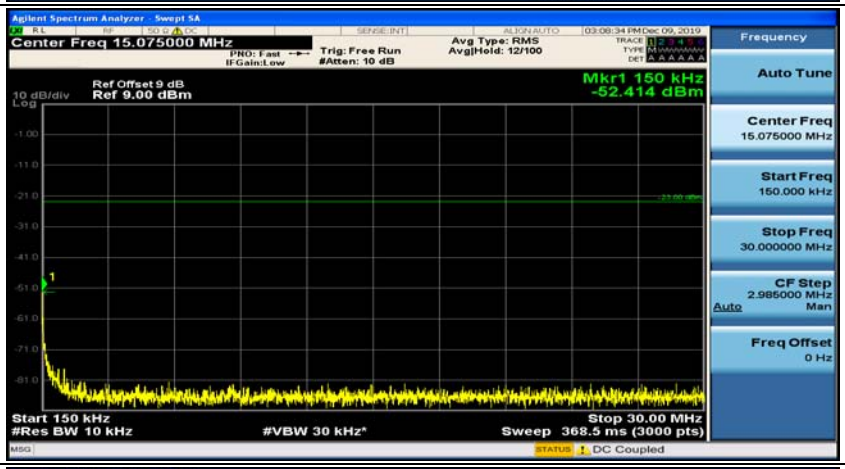


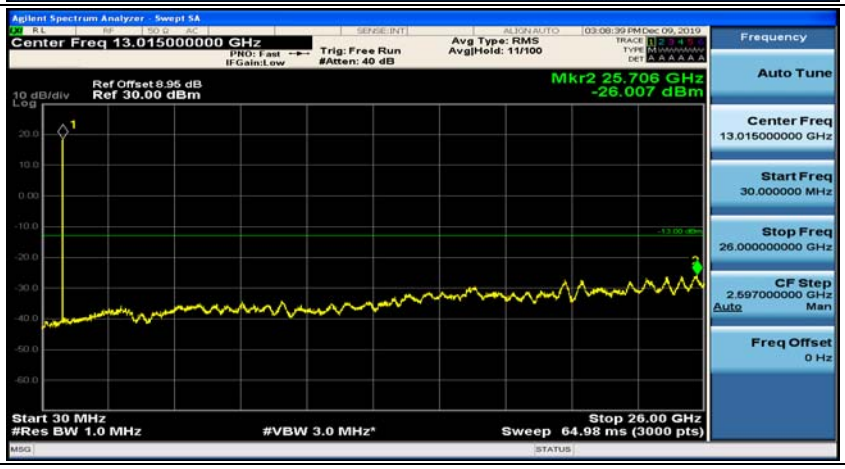


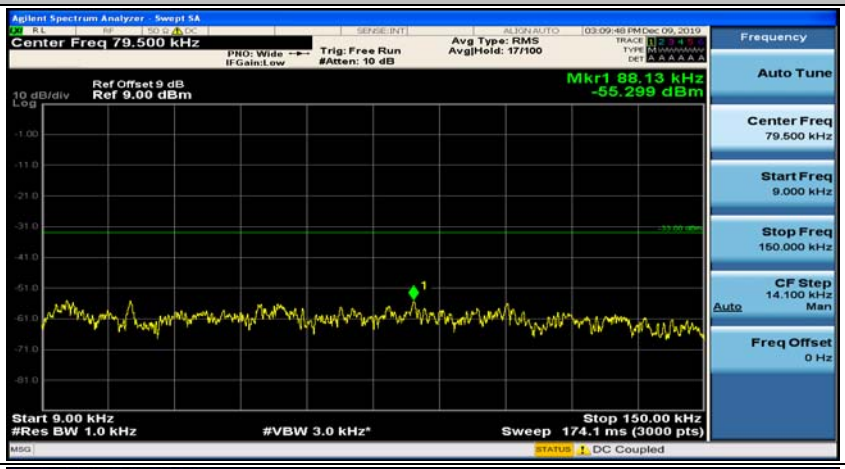
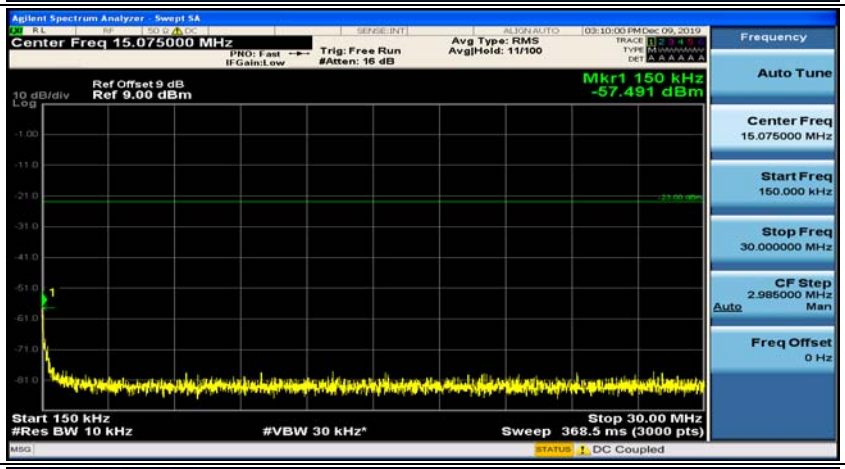
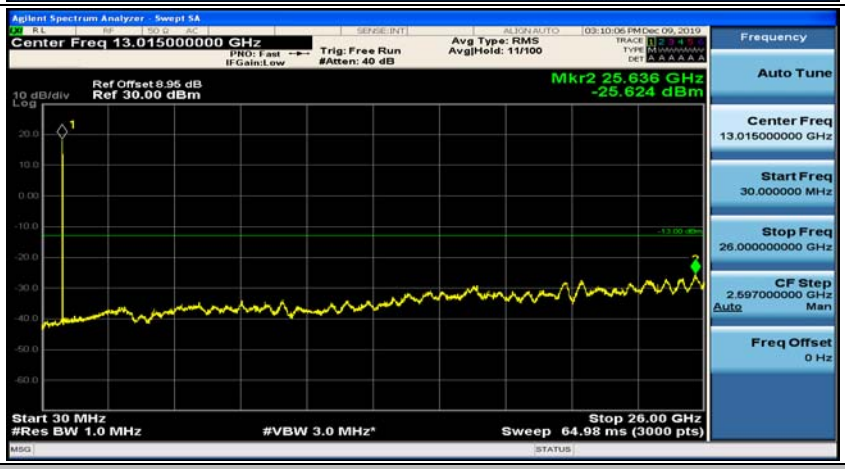


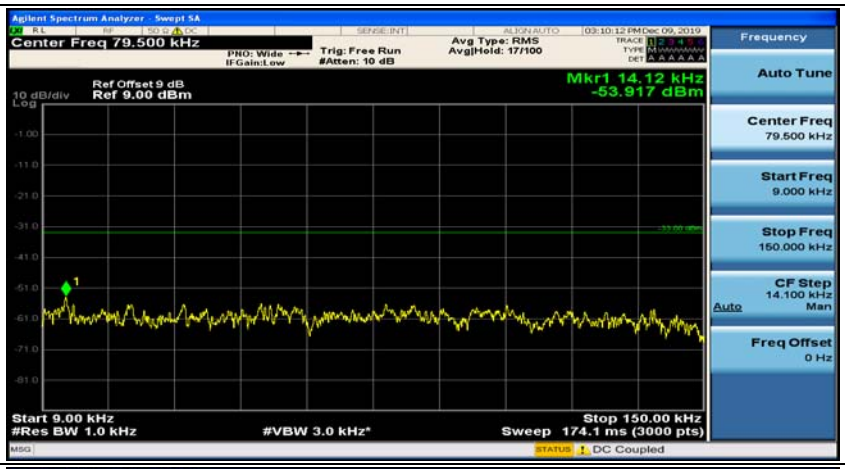
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49

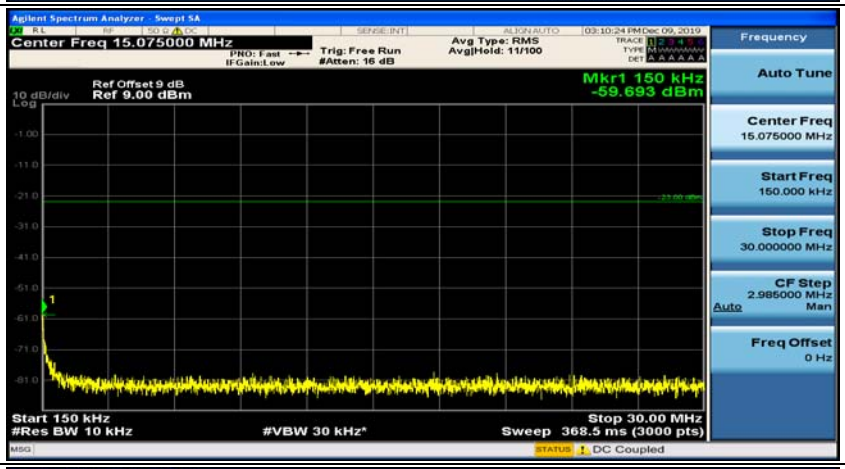

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 27.95 kHz
-55.093 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
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: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-52.414 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 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

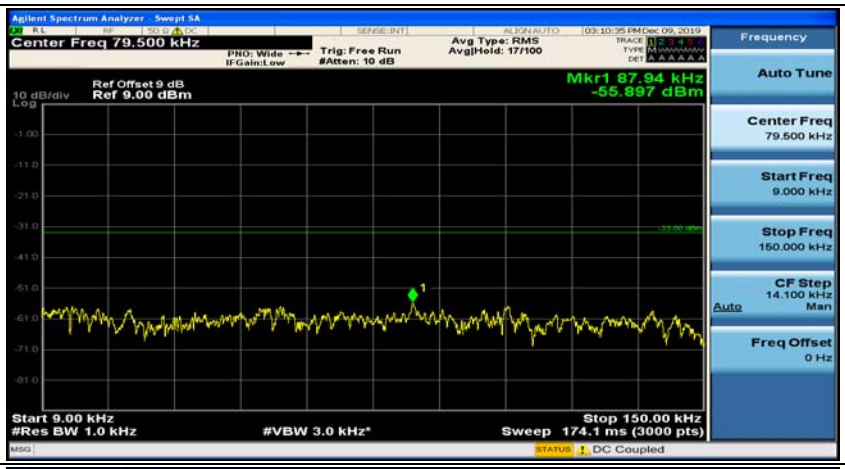

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.706 GHz
-26.007 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
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

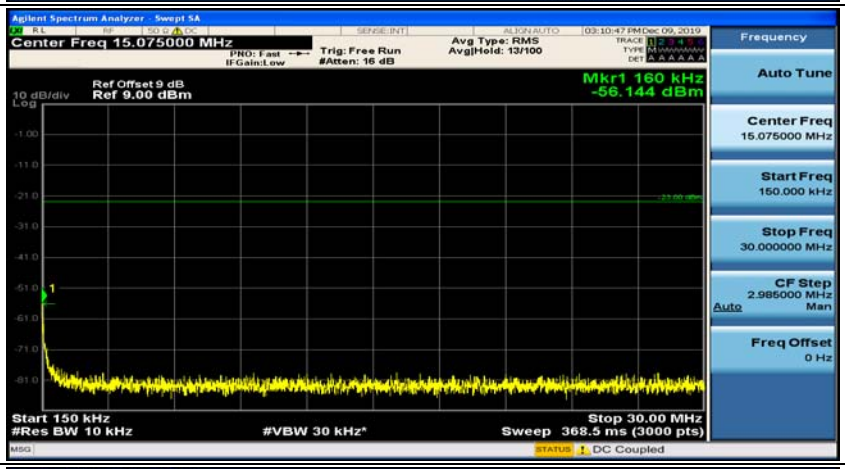
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

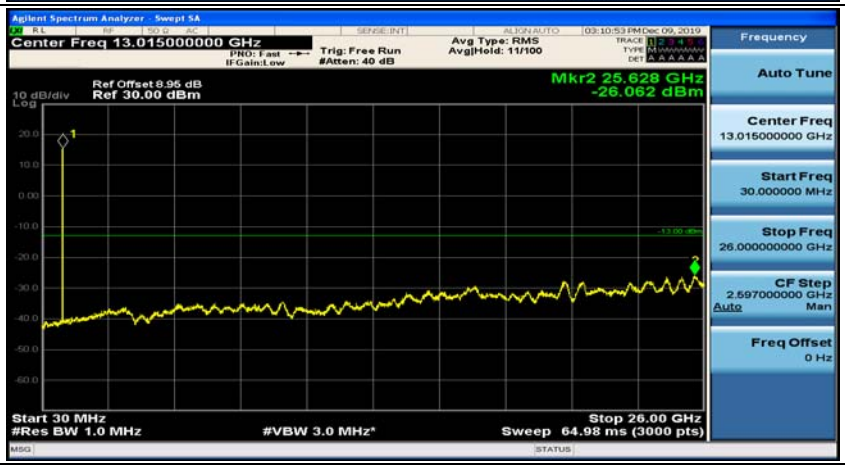




Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49


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: 17/100
03:10:35 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 87.94 kHz
-55.897 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 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: 16 dB
Avg Type: RMS
Avg|Hold: 13/100
03:10:47 PM Dec 09, 2019
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-56.144 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 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: 11/100
03:10:53 PM Dec 09, 2019
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Mkr2 25.628 GHz
-26.062 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 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

Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.59	0.004353	± 2.5	PASS
		VN	TN	-0.19	-0.000230	± 2.5	PASS
		VH	TN	-1.7	-0.002061	± 2.5	PASS
	MCH	VL	TN	3.04	0.003634	± 2.5	PASS
		VN	TN	4.69	0.005607	± 2.5	PASS
		VH	TN	1.47	0.001757	± 2.5	PASS
	HCH	VL	TN	3.05	0.003595	± 2.5	PASS
		VN	TN	3.04	0.003584	± 2.5	PASS
		VH	TN	1.96	0.002311	± 2.5	PASS
16QAM	LCH	VL	TN	2.78	0.003371	± 2.5	PASS
		VN	TN	0.94	0.001140	± 2.5	PASS
		VH	TN	3.85	0.004668	± 2.5	PASS
	MCH	VL	TN	3.47	0.004148	± 2.5	PASS
		VN	TN	4.89	0.005846	± 2.5	PASS
		VH	TN	3.52	0.004208	± 2.5	PASS
	HCH	VL	TN	4.08	0.004810	± 2.5	PASS
		VN	TN	3.21	0.003784	± 2.5	PASS
		VH	TN	1.35	0.001591	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.38	0.004098	± 2.5	PASS
		VN	-20	-0.65	-0.000788	± 2.5	PASS
		VN	-10	4.06	0.004923	± 2.5	PASS
		VN	0	0.61	0.000740	± 2.5	PASS
		VN	10	-1.58	-0.001916	± 2.5	PASS
		VN	20	4.11	0.004984	± 2.5	PASS
		VN	30	-0.81	-0.000982	± 2.5	PASS
		VN	40	3.15	0.003820	± 2.5	PASS
		VN	50	2.76	0.003347	± 2.5	PASS
	MCH	VN	-30	0.09	0.000108	± 2.5	PASS
		VN	-20	1.84	0.002200	± 2.5	PASS

		VN	-10	-0.46	-0.000550	± 2.5	PASS
		VN	0	3.02	0.003610	± 2.5	PASS
		VN	10	4.41	0.005272	± 2.5	PASS
		VN	20	0.99	0.001184	± 2.5	PASS
		VN	30	-1.97	-0.002355	± 2.5	PASS
		VN	40	-1.69	-0.002020	± 2.5	PASS
		VN	50	0.73	0.000873	± 2.5	PASS
	HCH	VN	-30	1.01	0.001191	± 2.5	PASS
		VN	-20	-1.41	-0.001662	± 2.5	PASS
		VN	-10	0.58	0.000684	± 2.5	PASS
		VN	0	-1.39	-0.001639	± 2.5	PASS
		VN	10	-0.47	-0.000554	± 2.5	PASS
		VN	20	0	0.000000	± 2.5	PASS
		VN	30	2.76	0.003254	± 2.5	PASS
		VN	40	4.61	0.005434	± 2.5	PASS
		VN	50	3.84	0.004527	± 2.5	PASS
16QAM	LCH	VN	-30	-0.21	-0.000255	± 2.5	PASS
		VN	-20	-1.67	-0.002025	± 2.5	PASS
		VN	-10	2.82	0.003419	± 2.5	PASS
		VN	0	1.63	0.001976	± 2.5	PASS
		VN	10	-0.95	-0.001152	± 2.5	PASS
		VN	20	-0.76	-0.000922	± 2.5	PASS
		VN	30	2.75	0.003335	± 2.5	PASS
		VN	40	1.74	0.002110	± 2.5	PASS
		VN	50	0.68	0.000825	± 2.5	PASS
	MCH	VN	-30	3.32	0.003914	± 2.5	PASS
		VN	-20	-0.13	-0.000153	± 2.5	PASS
		VN	-10	-1.91	-0.002252	± 2.5	PASS
		VN	0	2.4	0.002829	± 2.5	PASS
		VN	10	1.22	0.001438	± 2.5	PASS
		VN	20	-1.16	-0.001367	± 2.5	PASS
		VN	30	-0.17	-0.000200	± 2.5	PASS
		VN	40	0.79	0.000931	± 2.5	PASS
		VN	50	-0.82	-0.000967	± 2.5	PASS
	HCH	VN	-30	1.46	0.001721	± 2.5	PASS
		VN	-20	-1.16	-0.001367	± 2.5	PASS
		VN	-10	-0.96	-0.001132	± 2.5	PASS
		VN	0	-0.42	-0.000495	± 2.5	PASS
		VN	10	0.58	0.000684	± 2.5	PASS
		VN	20	1.18	0.001391	± 2.5	PASS
		VN	30	-0.5	-0.000589	± 2.5	PASS

		VN	40	0.23	0.000271	± 2.5	PASS
		VN	50	2.75	0.003242	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.39	0.000472	± 2.5	PASS
		VN	TN	1.53	0.001853	± 2.5	PASS
		VH	TN	0.38	0.000460	± 2.5	PASS
	MCH	VL	TN	-1.49	-0.001781	± 2.5	PASS
		VN	TN	4.02	0.004806	± 2.5	PASS
		VH	TN	3.22	0.003849	± 2.5	PASS
	HCH	VL	TN	1.01	0.001192	± 2.5	PASS
		VN	TN	0.84	0.000991	± 2.5	PASS
		VH	TN	4.17	0.004920	± 2.5	PASS
16QAM	LCH	VL	TN	2.01	0.002435	± 2.5	PASS
		VN	TN	-1.35	-0.001635	± 2.5	PASS
		VH	TN	2.69	0.003259	± 2.5	PASS
	MCH	VL	TN	-1.74	-0.002080	± 2.5	PASS
		VN	TN	4.84	0.005786	± 2.5	PASS
		VH	TN	2.36	0.002821	± 2.5	PASS
	HCH	VL	TN	-0.32	-0.000378	± 2.5	PASS
		VN	TN	-1.43	-0.001687	± 2.5	PASS
		VH	TN	1.61	0.001900	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.96	0.003586	± 2.5	PASS
		VN	-20	2.02	0.002447	± 2.5	PASS
		VN	-10	-0.88	-0.001066	± 2.5	PASS
		VN	0	2.16	0.002617	± 2.5	PASS
		VN	10	4.18	0.005064	± 2.5	PASS
		VN	20	-1.87	-0.002265	± 2.5	PASS
		VN	30	4.22	0.005112	± 2.5	PASS
		VN	40	-1.34	-0.001623	± 2.5	PASS
		VN	50	-0.39	-0.000472	± 2.5	PASS
	MCH	VN	-30	1.56	0.001865	± 2.5	PASS
		VN	-20	0.25	0.000299	± 2.5	PASS
		VN	-10	2.92	0.003491	± 2.5	PASS

		VN	0	4.76	0.005690	± 2.5	PASS
		VN	10	3.37	0.004029	± 2.5	PASS
		VN	20	-0.62	-0.000741	± 2.5	PASS
		VN	30	-0.66	-0.000789	± 2.5	PASS
		VN	40	1.13	0.001351	± 2.5	PASS
		VN	50	-0.86	-0.001028	± 2.5	PASS
	HCH	VN	-30	1.06	0.001251	± 2.5	PASS
		VN	-20	1.66	0.001959	± 2.5	PASS
		VN	-10	0.29	0.000342	± 2.5	PASS
		VN	0	4.25	0.005015	± 2.5	PASS
		VN	10	-1.81	-0.002136	± 2.5	PASS
		VN	20	3.78	0.004460	± 2.5	PASS
		VN	30	-1.44	-0.001699	± 2.5	PASS
		VN	40	0.98	0.001156	± 2.5	PASS
		VN	50	1.05	0.001239	± 2.5	PASS
16QAM	LCH	VN	-30	2.89	0.003455	± 2.5	PASS
		VN	-20	0.26	0.000311	± 2.5	PASS
		VN	-10	1.45	0.001733	± 2.5	PASS
		VN	0	-0.76	-0.000909	± 2.5	PASS
		VN	10	-1.43	-0.001710	± 2.5	PASS
		VN	20	0.29	0.000347	± 2.5	PASS
		VN	30	1.26	0.001506	± 2.5	PASS
		VN	40	1.92	0.002295	± 2.5	PASS
		VN	50	0.45	0.000538	± 2.5	PASS
	MCH	VN	-30	3.78	0.004460	± 2.5	PASS
		VN	-20	2.38	0.002808	± 2.5	PASS
		VN	-10	-1.56	-0.001841	± 2.5	PASS
		VN	0	0.94	0.001109	± 2.5	PASS
		VN	10	0.1	0.000118	± 2.5	PASS
		VN	20	-1.56	-0.001841	± 2.5	PASS
		VN	30	2.71	0.003198	± 2.5	PASS
		VN	40	-0.46	-0.000543	± 2.5	PASS
		VN	50	0.12	0.000142	± 2.5	PASS
	HCH	VN	-30	-1.31	-0.001546	± 2.5	PASS
		VN	-20	3.85	0.004543	± 2.5	PASS
		VN	-10	-1.73	-0.002041	± 2.5	PASS
		VN	0	2.58	0.003044	± 2.5	PASS
		VN	10	-0.19	-0.000224	± 2.5	PASS
		VN	20	3.42	0.004035	± 2.5	PASS
		VN	30	4.42	0.005215	± 2.5	PASS
		VN	40	0.75	0.000885	± 2.5	PASS

		VN	50	-1.48	-0.001746	± 2.5	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.45	-0.001754	± 2.5	PASS
		VN	TN	-1.04	-0.001258	± 2.5	PASS
		VH	TN	0.83	0.001004	± 2.5	PASS
	MCH	VL	TN	-1.65	-0.001973	± 2.5	PASS
		VN	TN	-1.57	-0.001877	± 2.5	PASS
		VH	TN	3.07	0.003670	± 2.5	PASS
	HCH	VL	TN	0.54	0.000638	± 2.5	PASS
		VN	TN	-0.17	-0.000201	± 2.5	PASS
		VH	TN	0	0.000000	± 2.5	PASS
16QAM	LCH	VL	TN	-1.63	-0.001972	± 2.5	PASS
		VN	TN	-1.17	-0.001416	± 2.5	PASS
		VH	TN	1.48	0.001791	± 2.5	PASS
	MCH	VL	TN	4.72	0.005643	± 2.5	PASS
		VN	TN	-0.12	-0.000143	± 2.5	PASS
		VH	TN	3.6	0.004304	± 2.5	PASS
	HCH	VL	TN	3.48	0.004111	± 2.5	PASS
		VN	TN	0.11	0.000130	± 2.5	PASS
		VH	TN	0.36	0.000425	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.22	-0.000266	± 2.5	PASS
		VN	-20	4.63	0.005602	± 2.5	PASS
		VN	-10	0.23	0.000278	± 2.5	PASS
		VN	0	1.46	0.001766	± 2.5	PASS
		VN	10	4.41	0.005336	± 2.5	PASS
		VN	20	-1.89	-0.002287	± 2.5	PASS
		VN	30	2.54	0.003073	± 2.5	PASS
		VN	40	3.43	0.004150	± 2.5	PASS
		VN	50	2.25	0.002722	± 2.5	PASS
	MCH	VN	-30	3.73	0.004459	± 2.5	PASS
		VN	-20	0.79	0.000944	± 2.5	PASS
		VN	-10	-0.48	-0.000574	± 2.5	PASS
		VN	0	-1	-0.001195	± 2.5	PASS

		VN	10	2.12	0.002534	± 2.5	PASS
		VN	20	-1.67	-0.001996	± 2.5	PASS
		VN	30	1.74	0.002080	± 2.5	PASS
		VN	40	0.86	0.001028	± 2.5	PASS
		VN	50	2.13	0.002546	± 2.5	PASS
	HCH	VN	-30	3	0.003544	± 2.5	PASS
		VN	-20	0.76	0.000898	± 2.5	PASS
		VN	-10	1.54	0.001819	± 2.5	PASS
		VN	0	1.65	0.001949	± 2.5	PASS
		VN	10	4.96	0.005859	± 2.5	PASS
		VN	20	1	0.001181	± 2.5	PASS
		VN	30	4.97	0.005871	± 2.5	PASS
		VN	40	0.13	0.000154	± 2.5	PASS
		VN	50	0.52	0.000614	± 2.5	PASS
16QAM	LCH	VN	-30	-1.05	-0.001255	± 2.5	PASS
		VN	-20	4	0.004782	± 2.5	PASS
		VN	-10	3.77	0.004507	± 2.5	PASS
		VN	0	-1.37	-0.001638	± 2.5	PASS
		VN	10	-0.66	-0.000789	± 2.5	PASS
		VN	20	3.51	0.004196	± 2.5	PASS
		VN	30	3.14	0.003754	± 2.5	PASS
		VN	40	1.91	0.002283	± 2.5	PASS
		VN	50	4.7	0.005619	± 2.5	PASS
	MCH	VN	-30	0.57	0.000673	± 2.5	PASS
		VN	-20	-1.97	-0.002327	± 2.5	PASS
		VN	-10	4.64	0.005481	± 2.5	PASS
		VN	0	4.79	0.005659	± 2.5	PASS
		VN	10	2.9	0.003426	± 2.5	PASS
		VN	20	3.34	0.003946	± 2.5	PASS
		VN	30	3.24	0.003828	± 2.5	PASS
		VN	40	1.14	0.001347	± 2.5	PASS
		VN	50	4.31	0.005092	± 2.5	PASS
	HCH	VN	-30	0.93	0.001099	± 2.5	PASS
		VN	-20	3.29	0.003887	± 2.5	PASS
		VN	-10	-1.08	-0.001276	± 2.5	PASS
		VN	0	-1.2	-0.001418	± 2.5	PASS
		VN	10	4.28	0.005056	± 2.5	PASS
		VN	20	0.17	0.000201	± 2.5	PASS
		VN	30	0.38	0.000449	± 2.5	PASS
		VN	40	-1.09	-0.001288	± 2.5	PASS
		VN	50	-0.36	-0.000425	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.52	0.000627	± 2.5	PASS
		VN	TN	-0.78	-0.000941	± 2.5	PASS
		VH	TN	0.88	0.001062	± 2.5	PASS
	MCH	VL	TN	2.89	0.003455	± 2.5	PASS
		VN	TN	2.27	0.002714	± 2.5	PASS
		VH	TN	-1.93	-0.002307	± 2.5	PASS
	HCH	VL	TN	1.29	0.001528	± 2.5	PASS
		VN	TN	4.05	0.004799	± 2.5	PASS
		VH	TN	-1.96	-0.002322	± 2.5	PASS
16QAM	LCH	VL	TN	-1.22	-0.001472	± 2.5	PASS
		VN	TN	0.69	0.000832	± 2.5	PASS
		VH	TN	0.4	0.000483	± 2.5	PASS
	MCH	VL	TN	3.37	0.004029	± 2.5	PASS
		VN	TN	1.98	0.002367	± 2.5	PASS
		VH	TN	2.35	0.002809	± 2.5	PASS
	HCH	VL	TN	-0.48	-0.000569	± 2.5	PASS
		VN	TN	4.61	0.005462	± 2.5	PASS
		VH	TN	1.48	0.001754	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.43	-0.000519	± 2.5	PASS
		VN	-20	3.99	0.004813	± 2.5	PASS
		VN	-10	3.73	0.004499	± 2.5	PASS
		VN	0	0.25	0.000302	± 2.5	PASS
		VN	10	2.52	0.003040	± 2.5	PASS
		VN	20	-0.89	-0.001074	± 2.5	PASS
		VN	30	-1.24	-0.001496	± 2.5	PASS
		VN	40	-1.71	-0.002063	± 2.5	PASS
		VN	50	-0.03	-0.000036	± 2.5	PASS
	MCH	VN	-30	-0.47	-0.000562	± 2.5	PASS
		VN	-20	2.75	0.003288	± 2.5	PASS
		VN	-10	0.32	0.000383	± 2.5	PASS
		VN	0	-1.27	-0.001518	± 2.5	PASS
		VN	10	3.03	0.003622	± 2.5	PASS
		VN	20	0.76	0.000909	± 2.5	PASS

		VN	30	1	0.001195	± 2.5	PASS
		VN	40	-0.2	-0.000239	± 2.5	PASS
		VN	50	3.22	0.003849	± 2.5	PASS
	HCH	VN	-30	4.39	0.005201	± 2.5	PASS
		VN	-20	0.91	0.001078	± 2.5	PASS
		VN	-10	-1.02	-0.001209	± 2.5	PASS
		VN	0	4.42	0.005237	± 2.5	PASS
		VN	10	3.56	0.004218	± 2.5	PASS
		VN	20	-1.9	-0.002251	± 2.5	PASS
		VN	30	1.09	0.001291	± 2.5	PASS
		VN	40	1.93	0.002287	± 2.5	PASS
		VN	50	4.26	0.005047	± 2.5	PASS
QPSK	LCH	VN	-30	0.19	0.000227	± 2.5	PASS
		VN	-20	3.54	0.004232	± 2.5	PASS
		VN	-10	1.81	0.002164	± 2.5	PASS
		VN	0	1.62	0.001937	± 2.5	PASS
		VN	10	-1.47	-0.001757	± 2.5	PASS
		VN	20	-0.13	-0.000155	± 2.5	PASS
		VN	30	2.93	0.003503	± 2.5	PASS
		VN	40	-1.84	-0.002200	± 2.5	PASS
		VN	50	1.55	0.001853	± 2.5	PASS
	MCH	VN	-30	-0.04	-0.000047	± 2.5	PASS
		VN	-20	0.69	0.000818	± 2.5	PASS
		VN	-10	-0.29	-0.000344	± 2.5	PASS
		VN	0	2.31	0.002737	± 2.5	PASS
		VN	10	1.63	0.001931	± 2.5	PASS
		VN	20	0.97	0.001149	± 2.5	PASS
		VN	30	2.74	0.003246	± 2.5	PASS
		VN	40	4.92	0.005829	± 2.5	PASS
		VN	50	2.72	0.003223	± 2.5	PASS
	HCH	VN	-30	2.65	0.003140	± 2.5	PASS
		VN	-20	2.72	0.003223	± 2.5	PASS
		VN	-10	3.33	0.003945	± 2.5	PASS
		VN	0	-1.94	-0.002299	± 2.5	PASS
		VN	10	4.07	0.004822	± 2.5	PASS
		VN	20	-1.95	-0.002310	± 2.5	PASS
		VN	30	2.85	0.003377	± 2.5	PASS
		VN	40	3.22	0.003815	± 2.5	PASS
		VN	50	3.25	0.003851	± 2.5	PASS