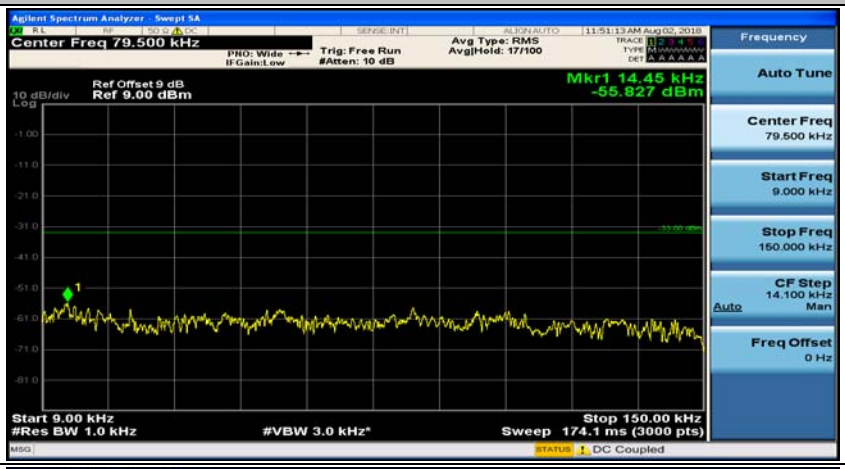
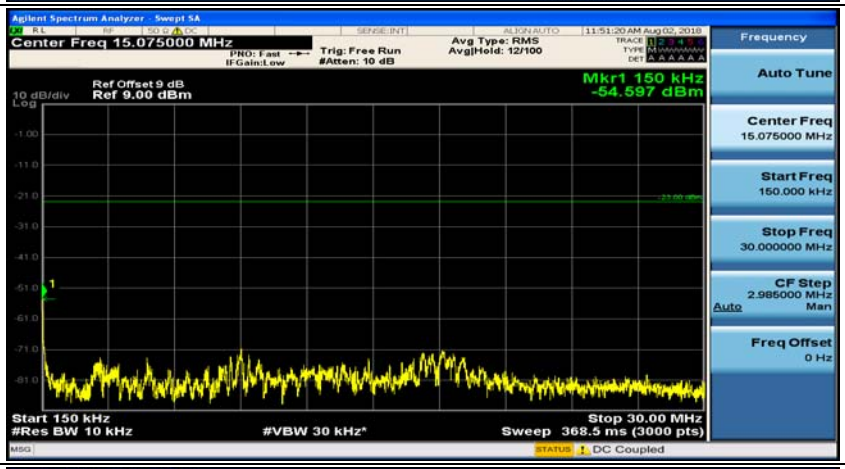
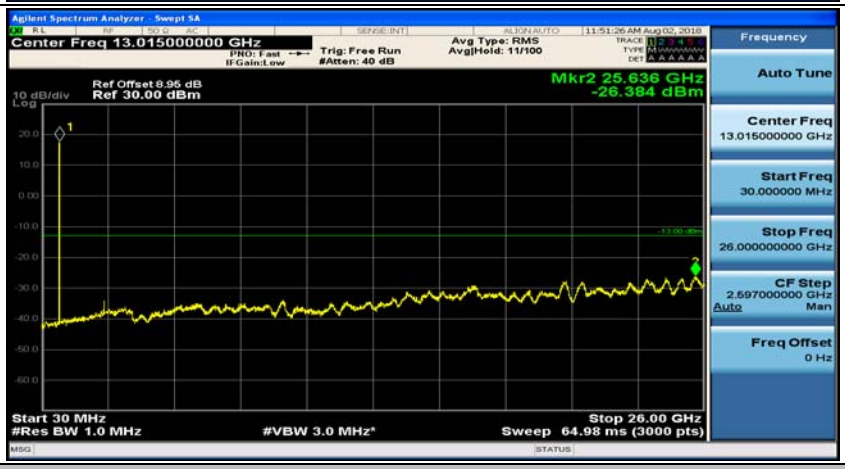
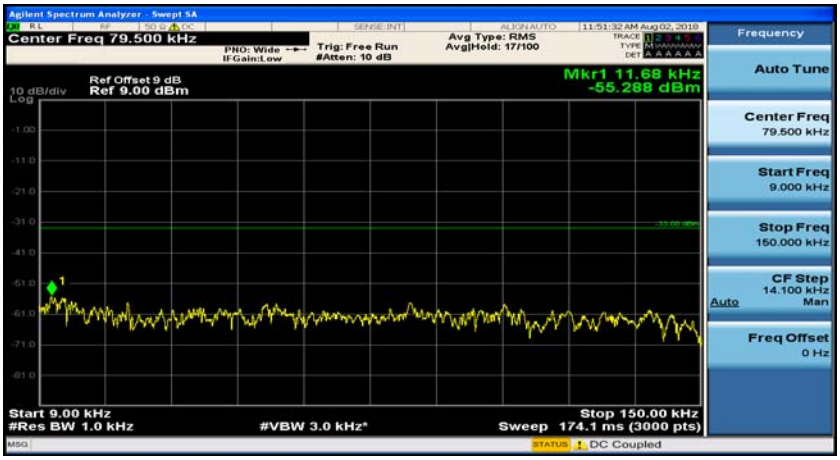
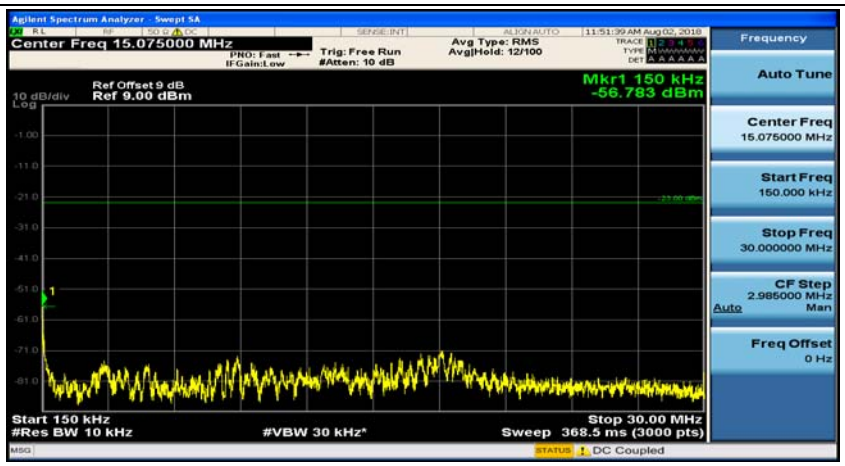
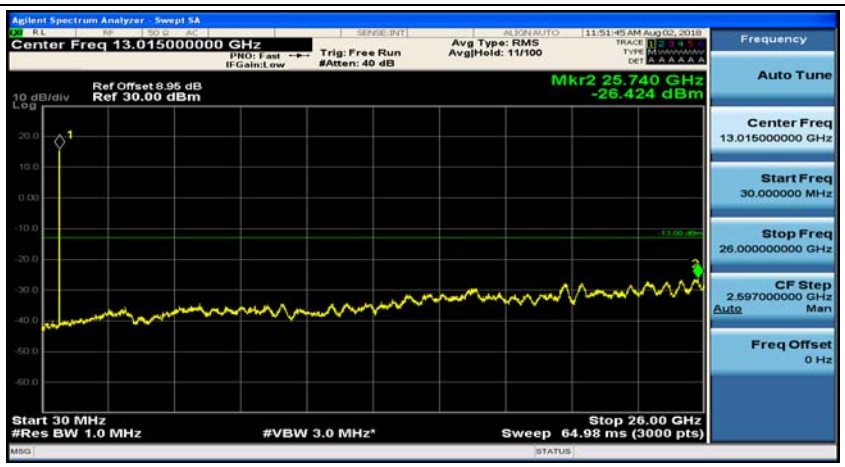
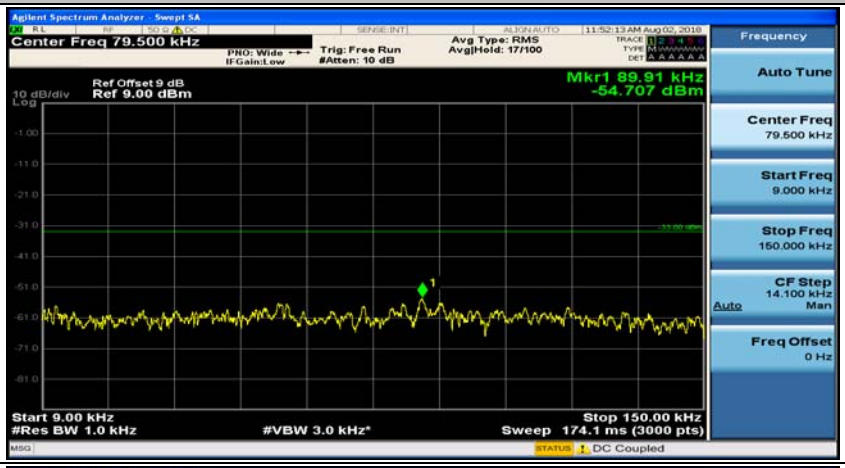
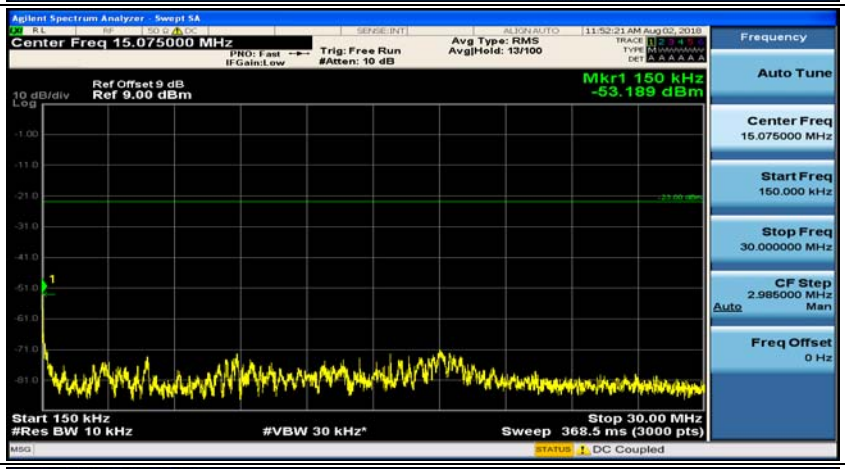
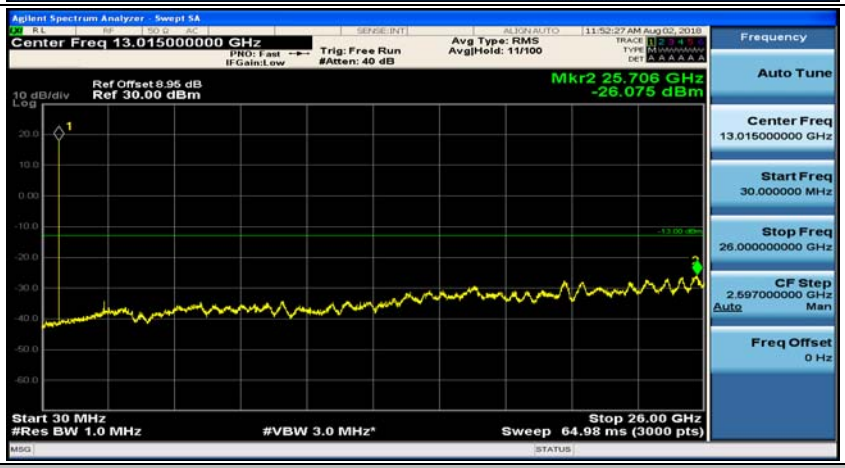
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7

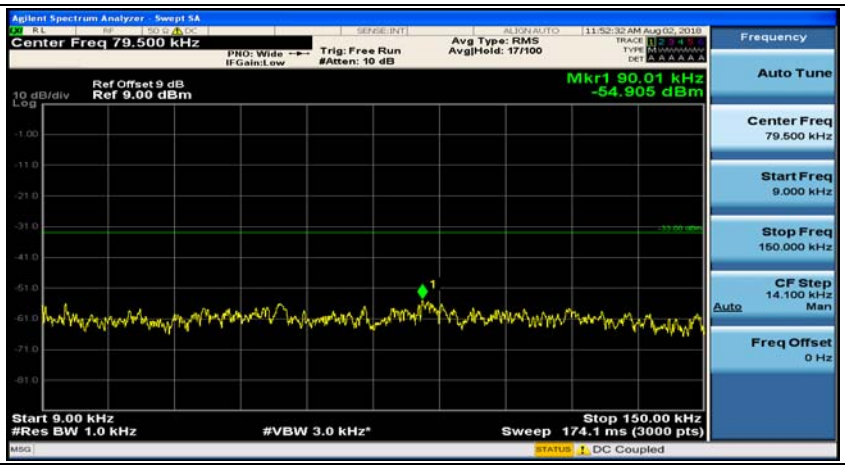

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:51:32 AM Aug 02, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 11.68 kHz
-55.288 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 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

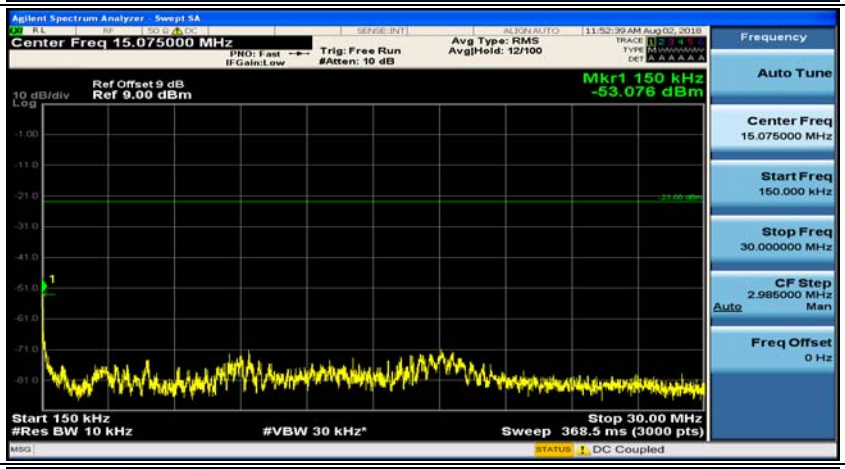

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
11:51:39 AM Aug 02, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 150 kHz
-56.783 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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

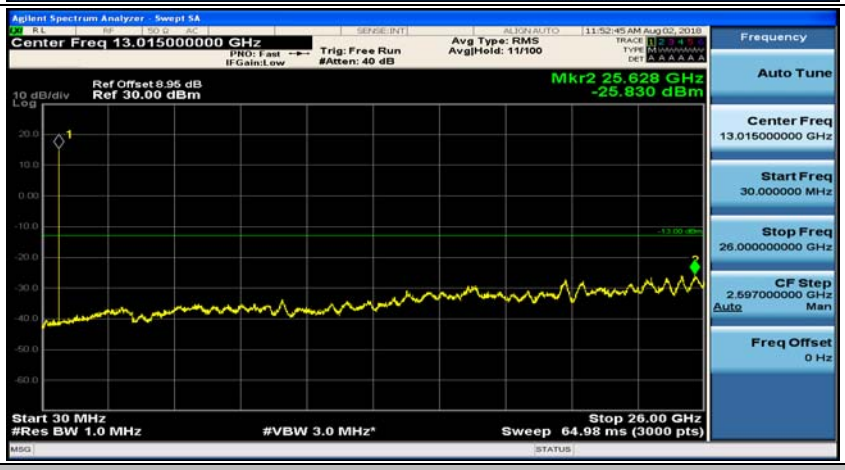

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
11:51:45 AM Aug 02, 2018
Ref Offset 8.96 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.740 GHz
-26.424 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 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

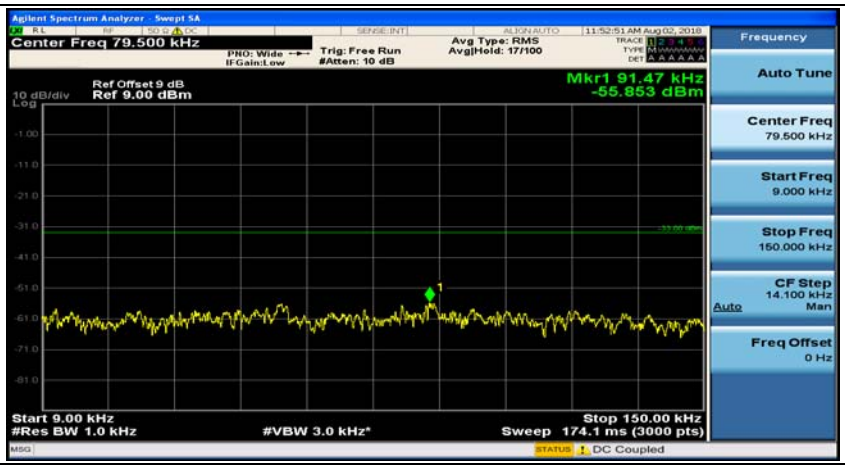
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

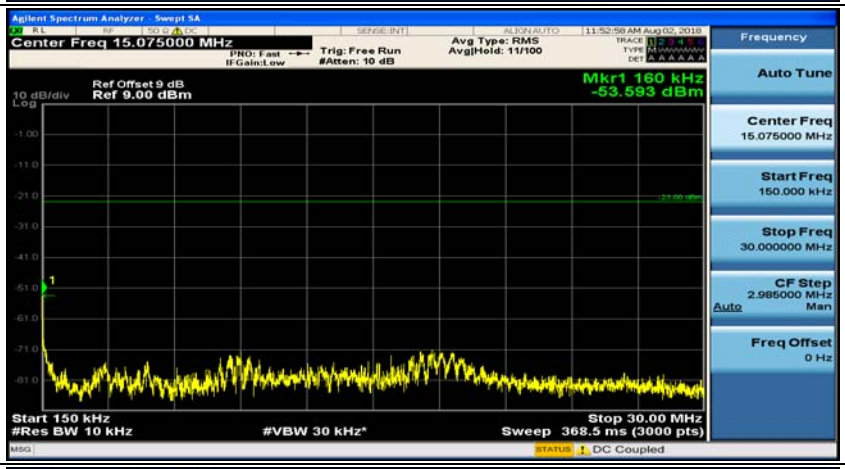


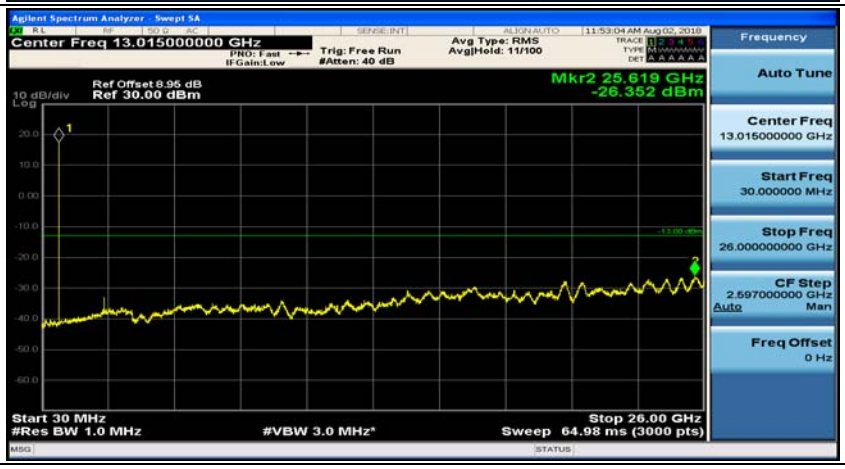


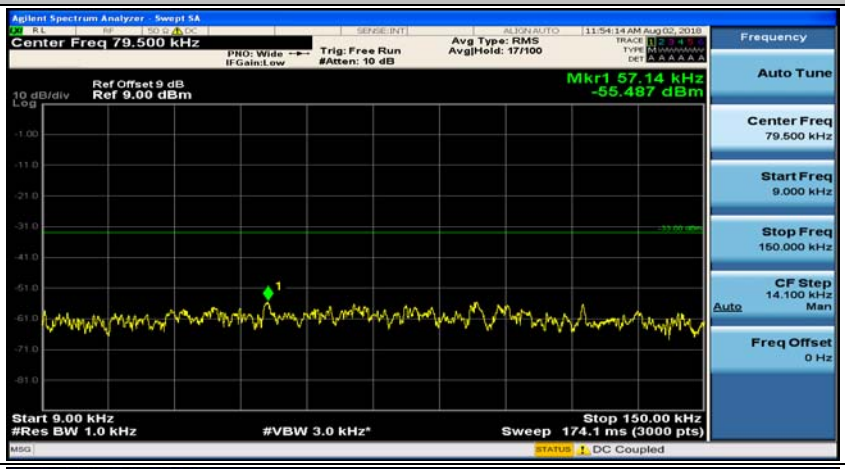
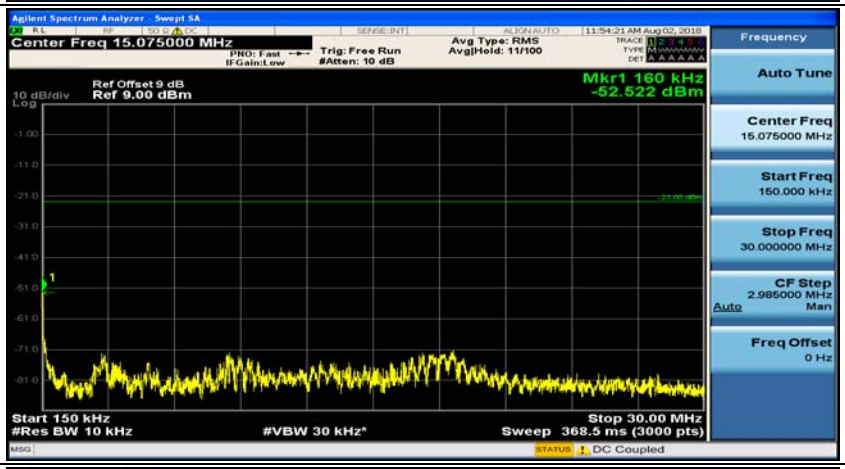
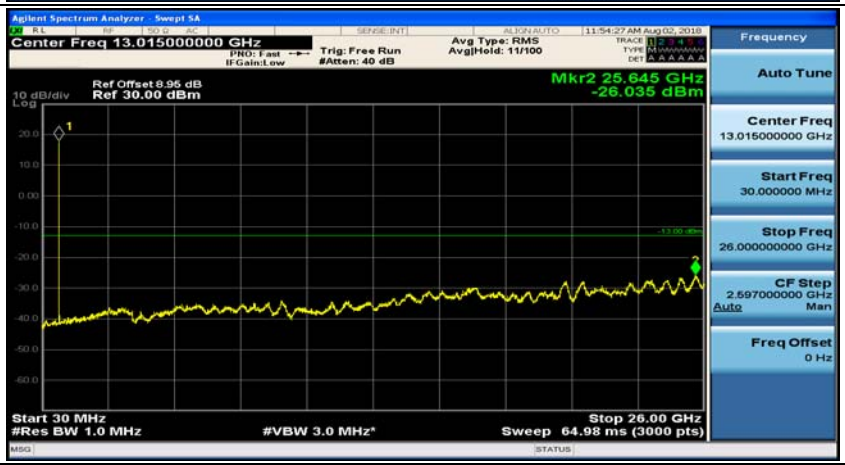


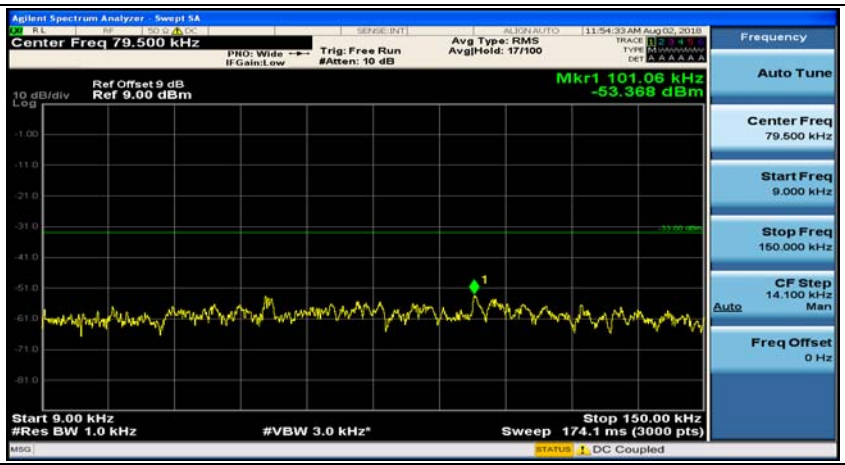
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

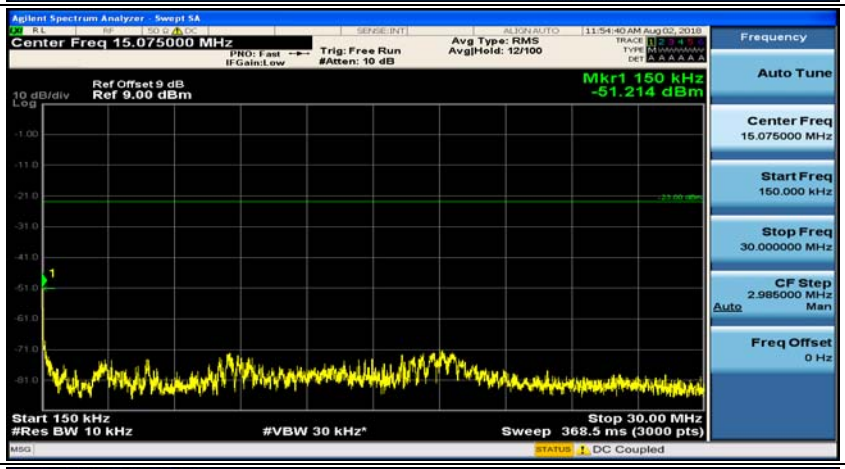

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:52:51 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 91.47 kHz
-55.853 dBm
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Log
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz
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

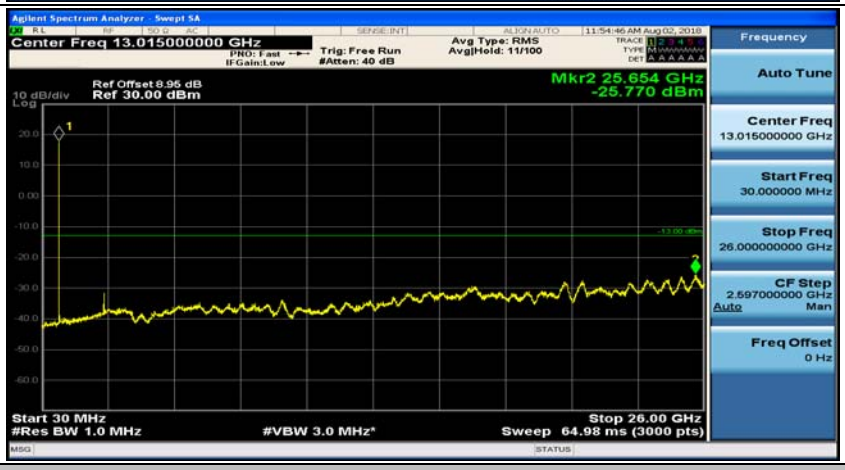

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 11/100
11:52:58 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 160 kHz
-53.593 dBm
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Log
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled


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
11:53:04 AM Aug 02, 2018
Frequency
Auto Tune
Mkr2 25.619 GHz
-26.352 dBm
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Log
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
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)

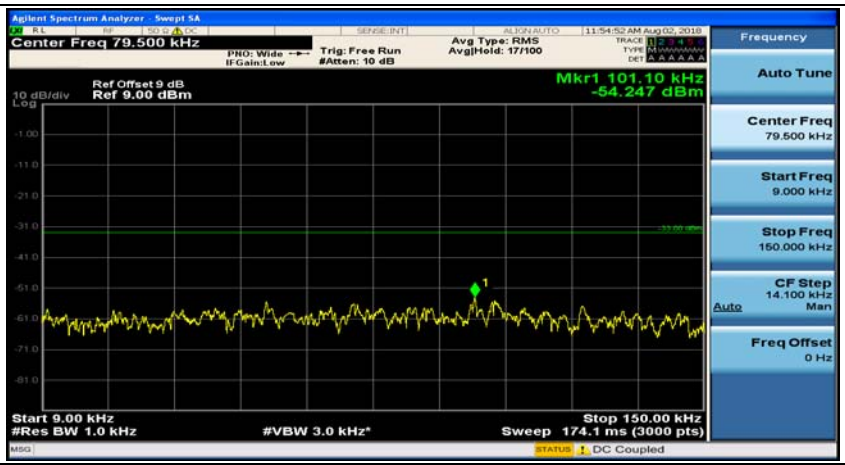
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

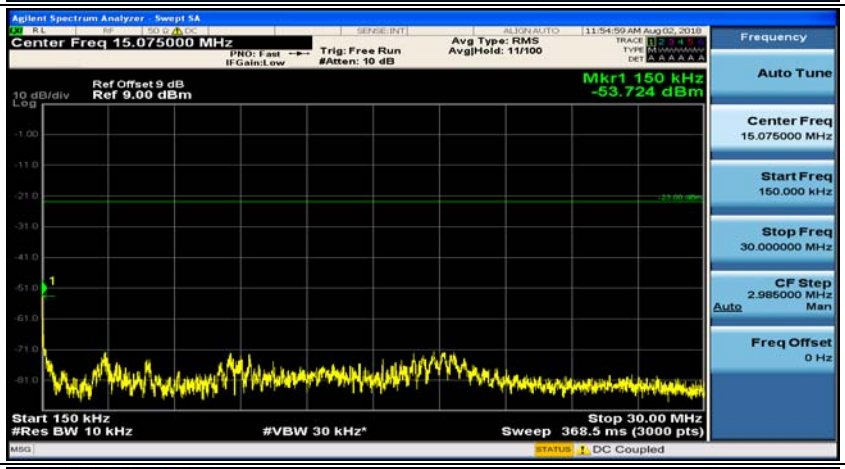


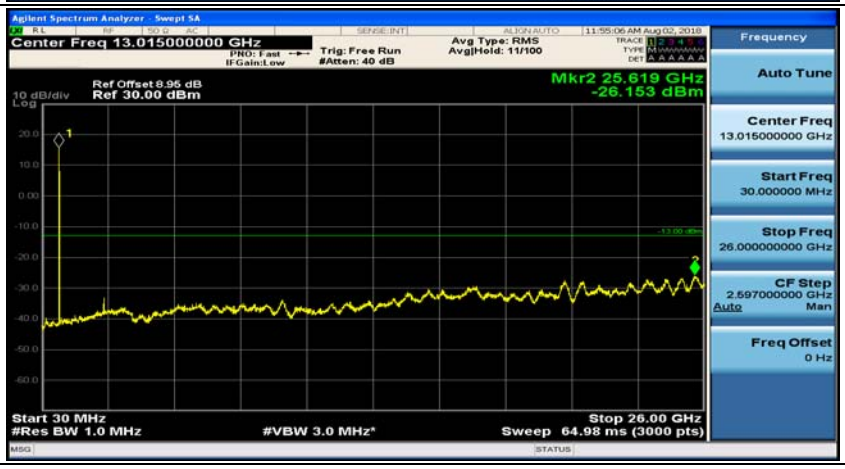




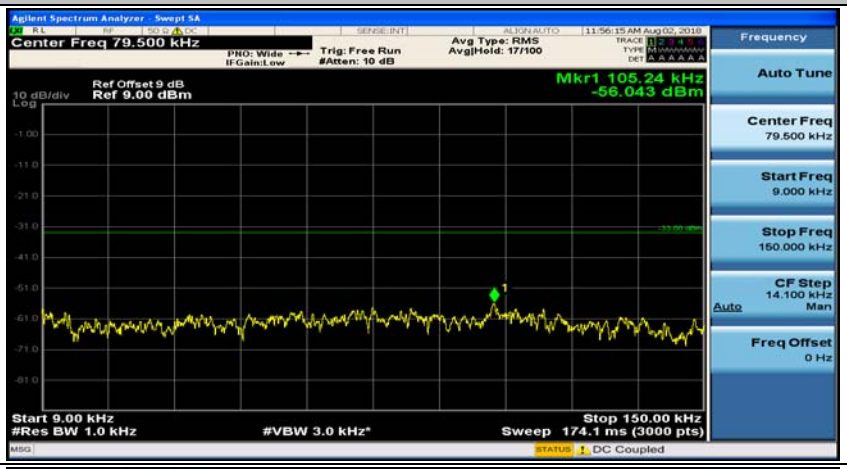
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

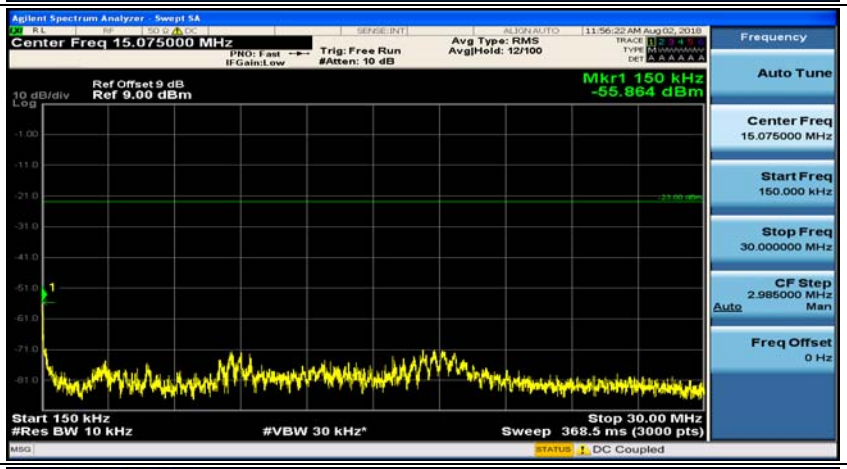

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:54:52 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 101.10 kHz
-54.247 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz
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


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: 11/100
11:54:59 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 150 kHz
-53.724 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
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
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled

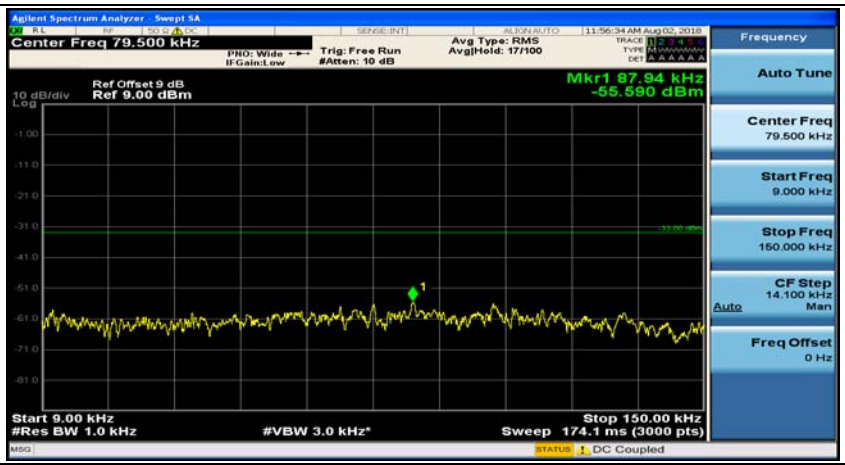

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
11:55:06 AM Aug 02, 2018
Frequency
Auto Tune
Mkr2 25.619 GHz
-26.153 dBm
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)

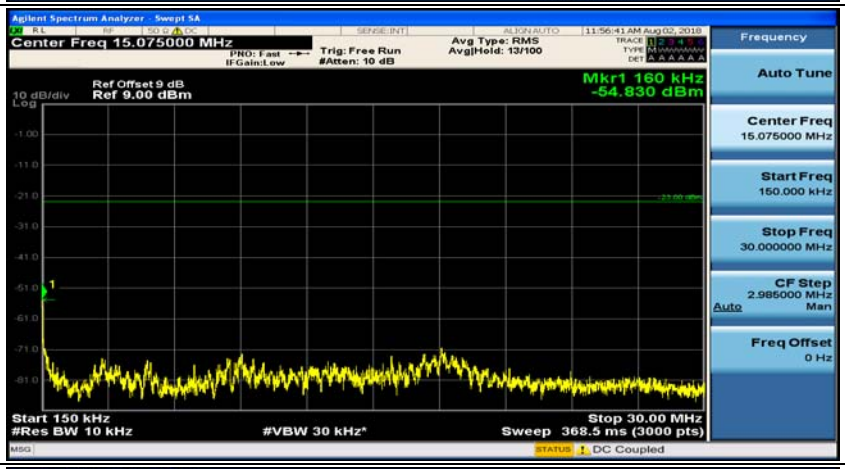
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

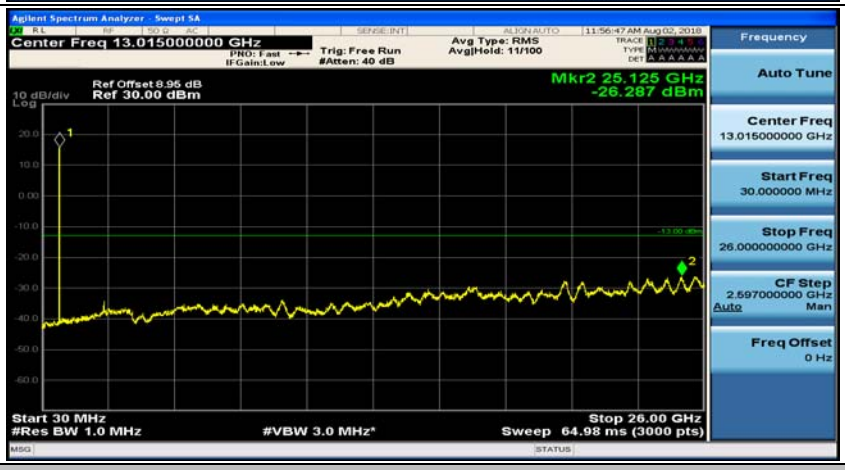




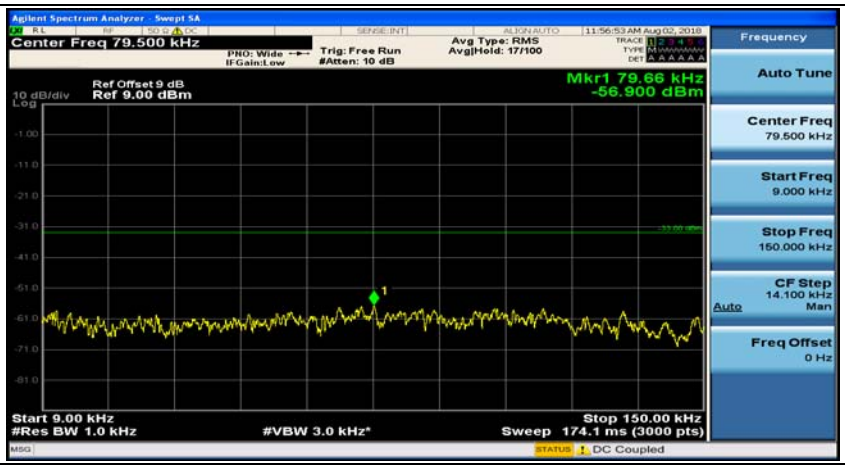
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

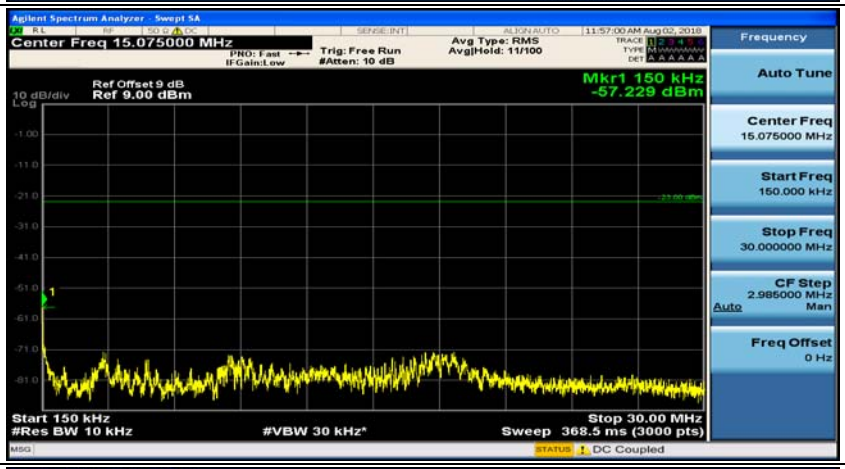


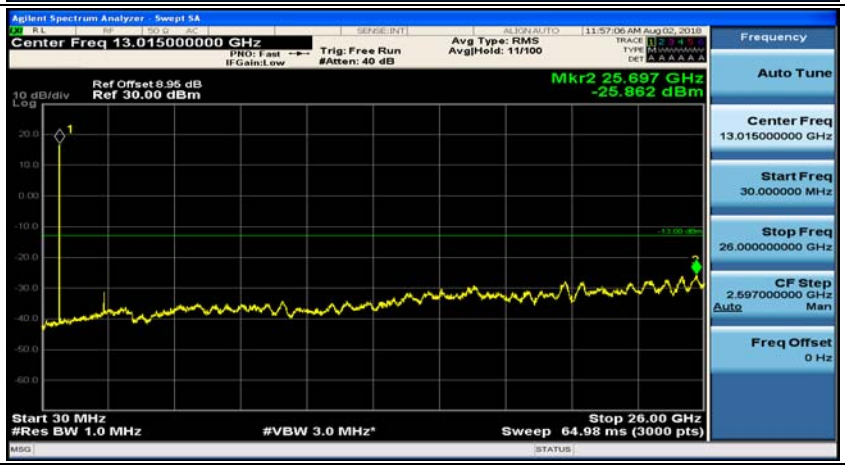


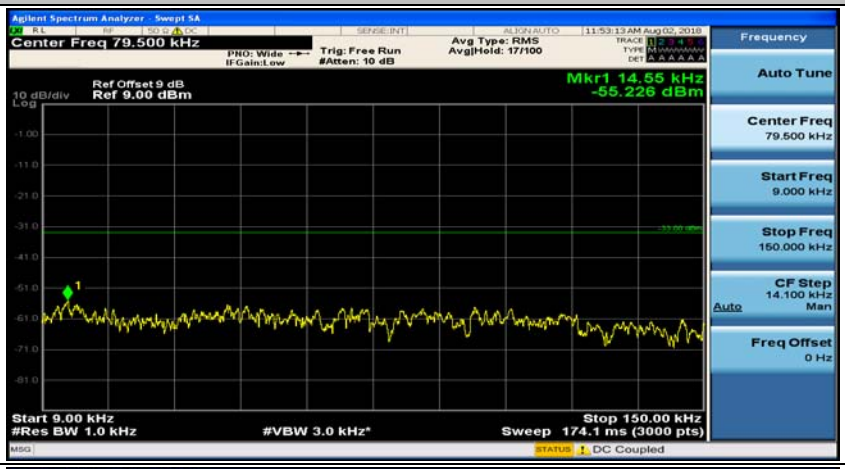
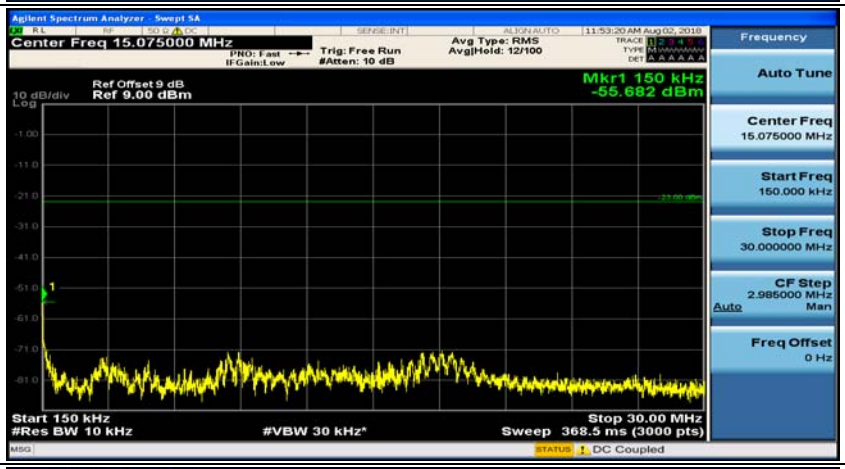
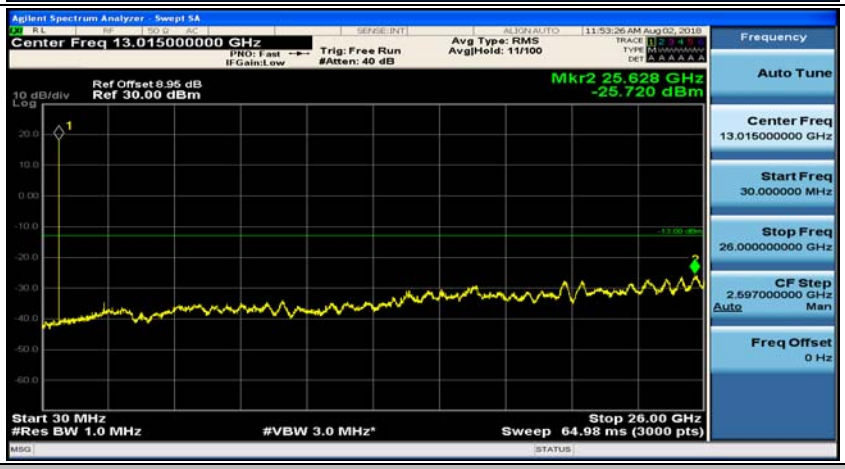


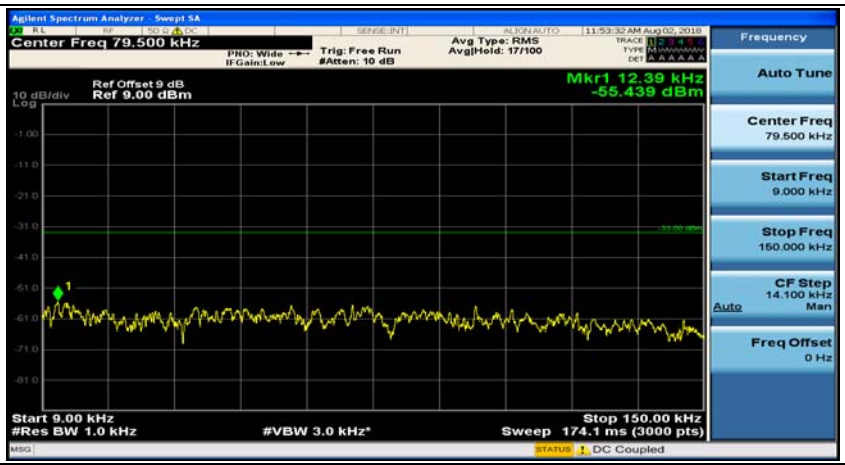
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

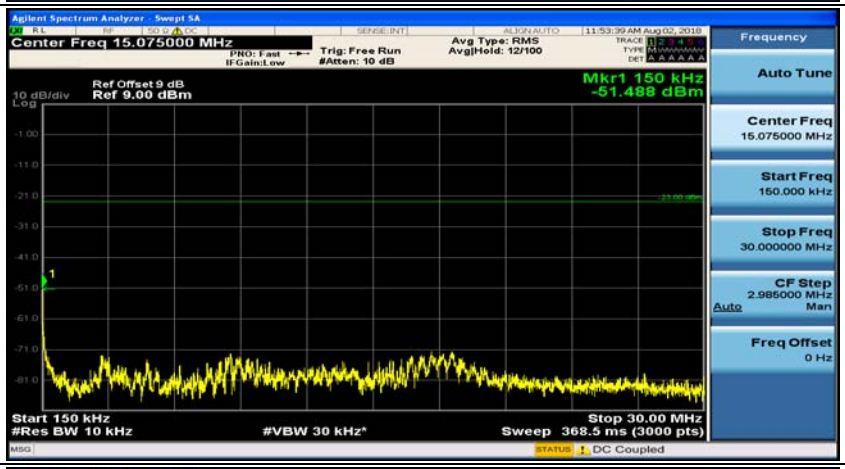

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:56:53 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 79.66 kHz
-56.900 dBm
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Log
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz
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

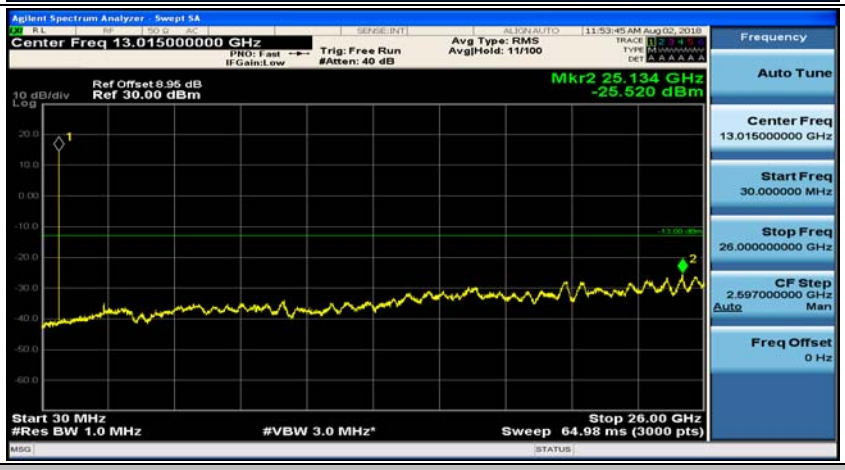

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 11/100
11:57:00 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 150 kHz
-57.229 dBm
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Log
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled


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
11:57:06 AM Aug 02, 2018
Frequency
Auto Tune
Mkr2 25.697 GHz
-25.862 dBm
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Log
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
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)

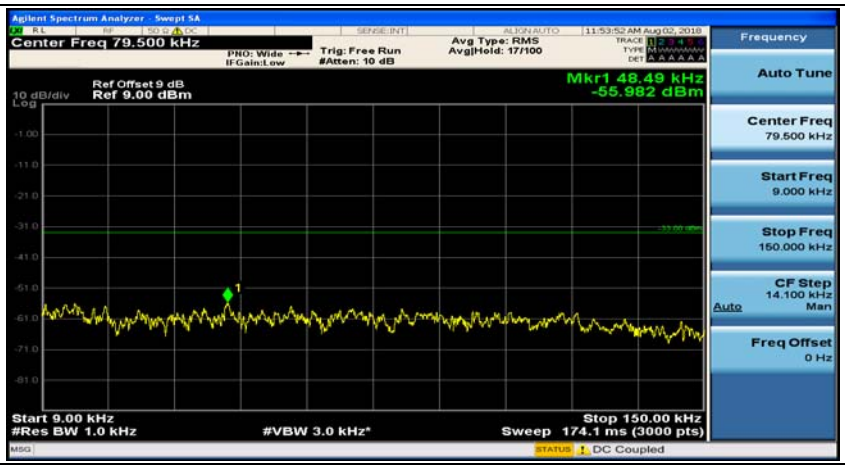
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

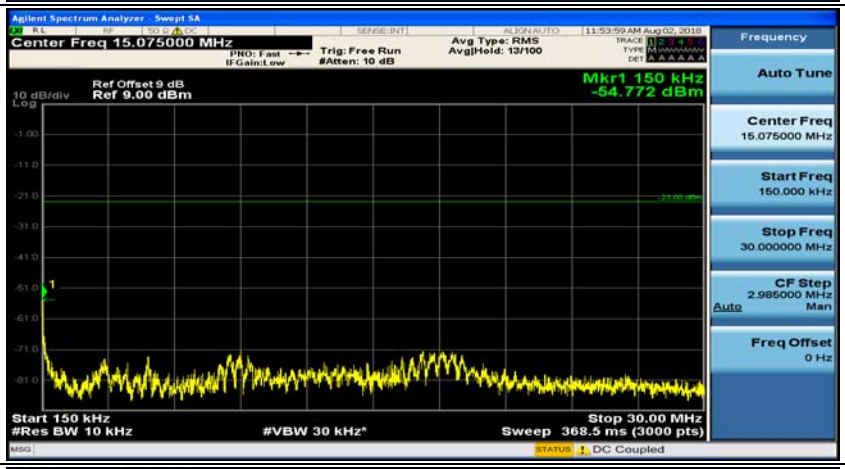


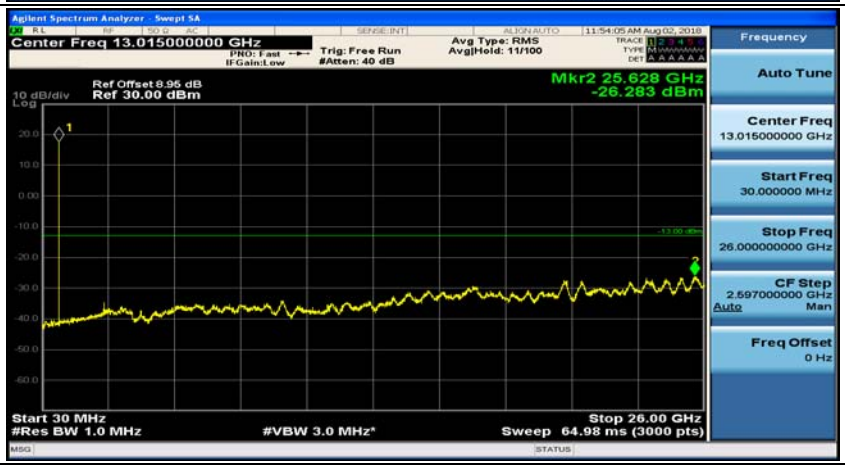


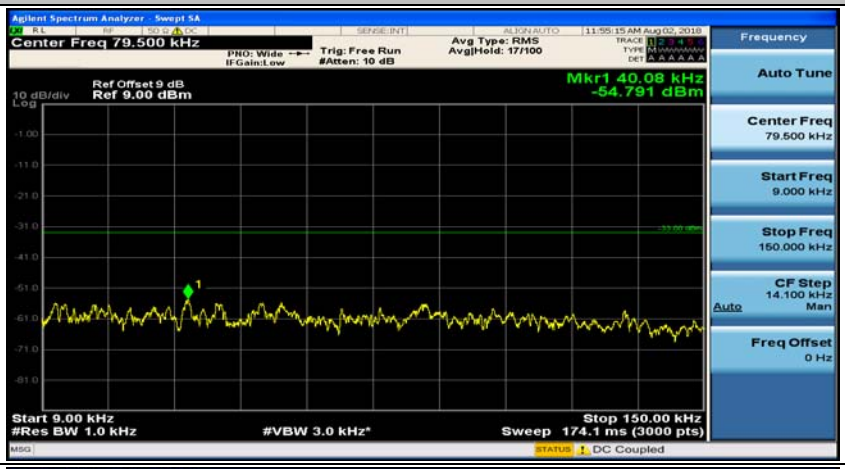
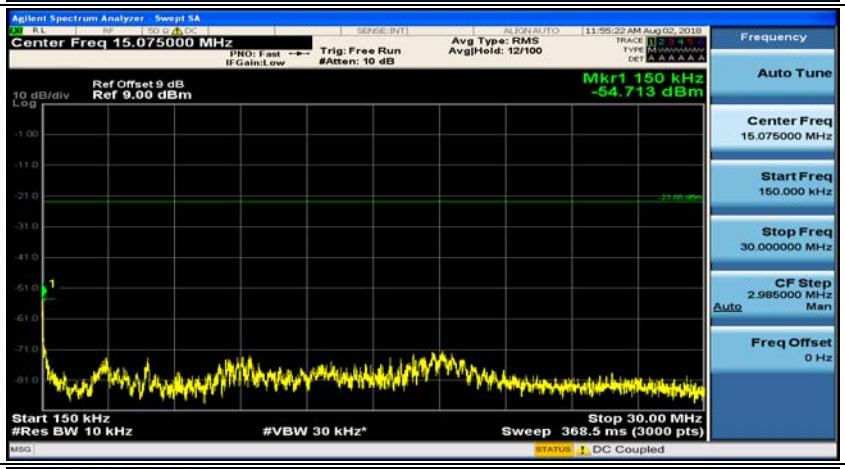
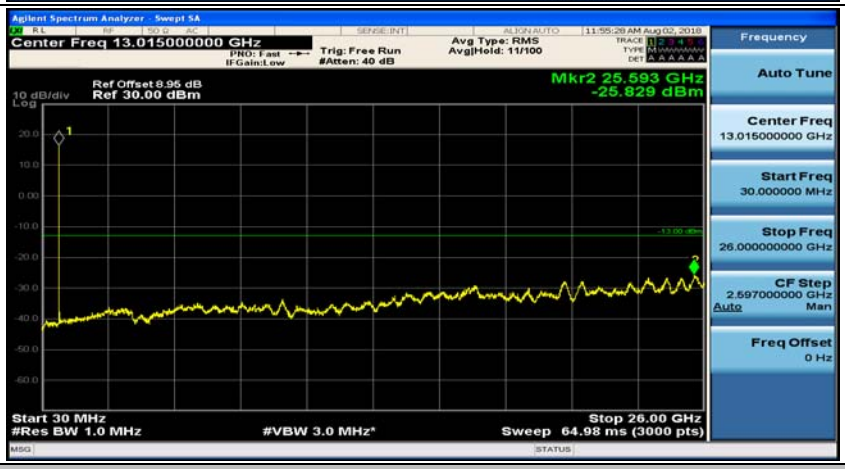


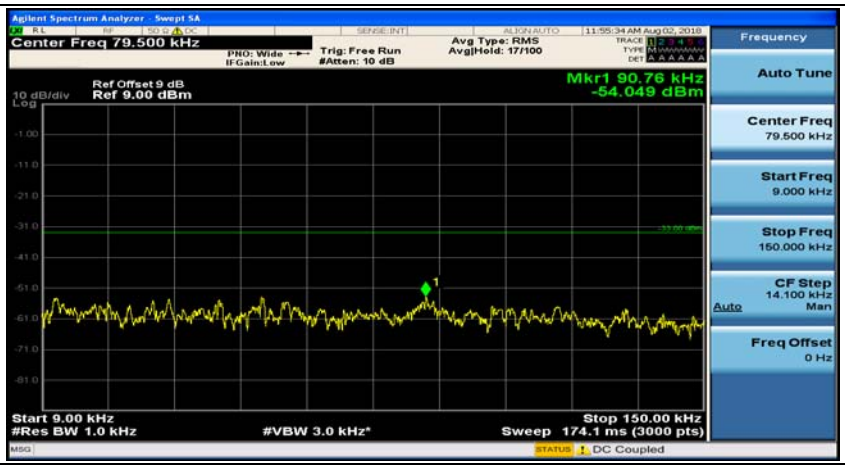
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

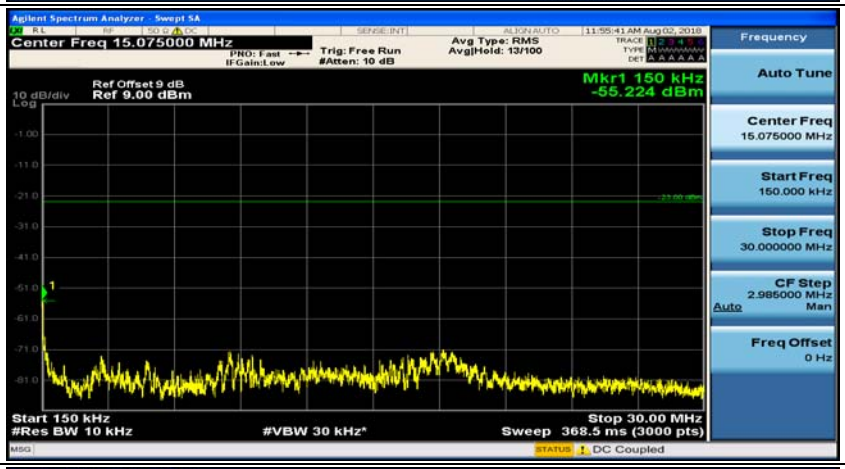

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:53:52 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 48.49 kHz
-55.982 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz
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

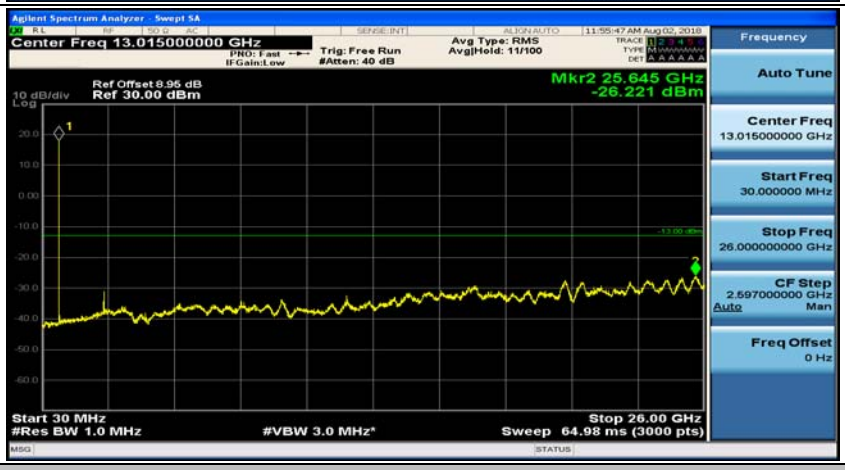

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 13/100
11:53:59 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 150 kHz
-54.772 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled


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
11:54:05 AM Aug 02, 2018
Frequency
Auto Tune
Mkr2 25.628 GHz
-26.283 dBm
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
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
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)

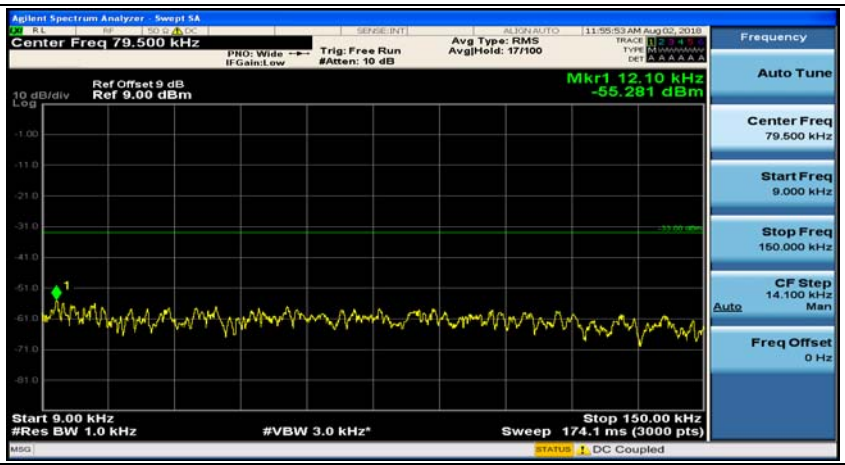
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

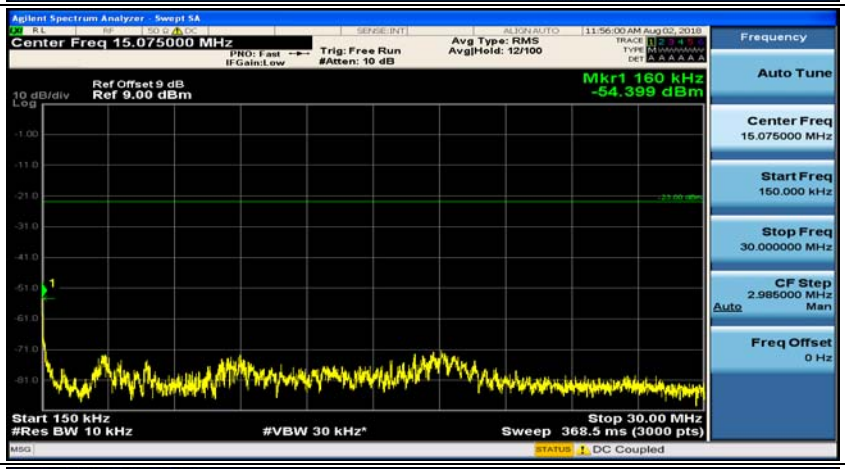


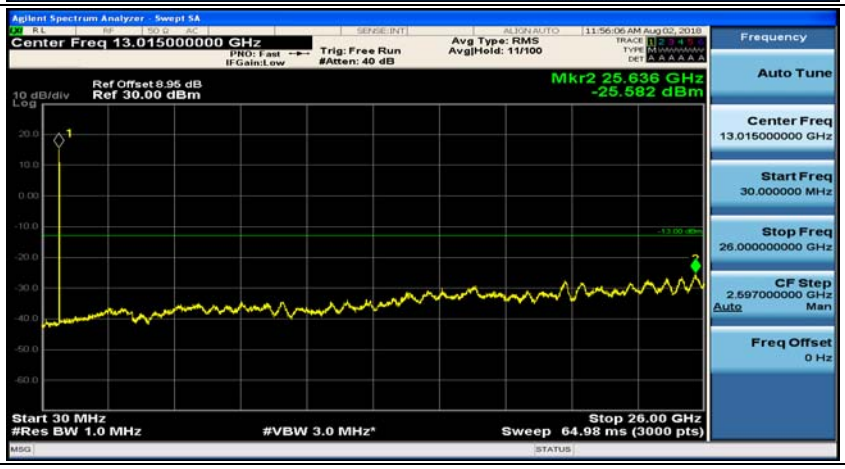


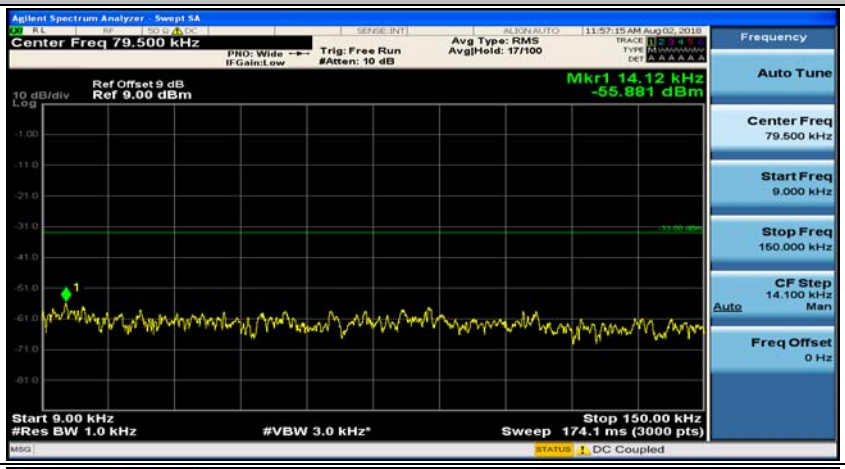
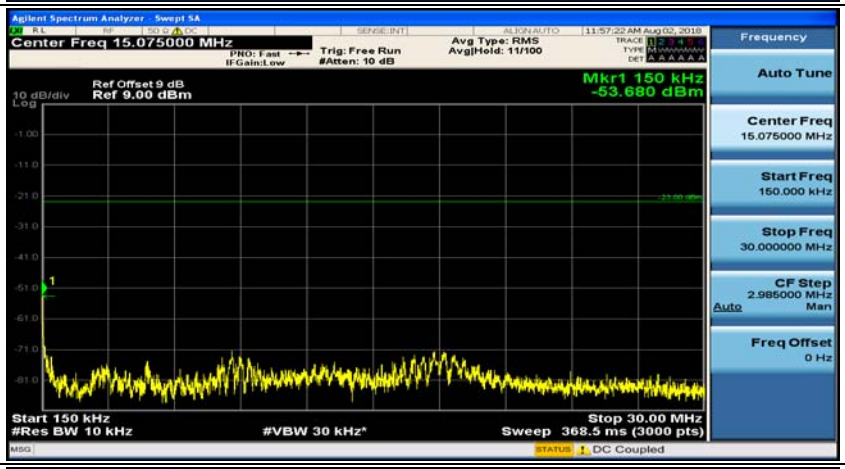
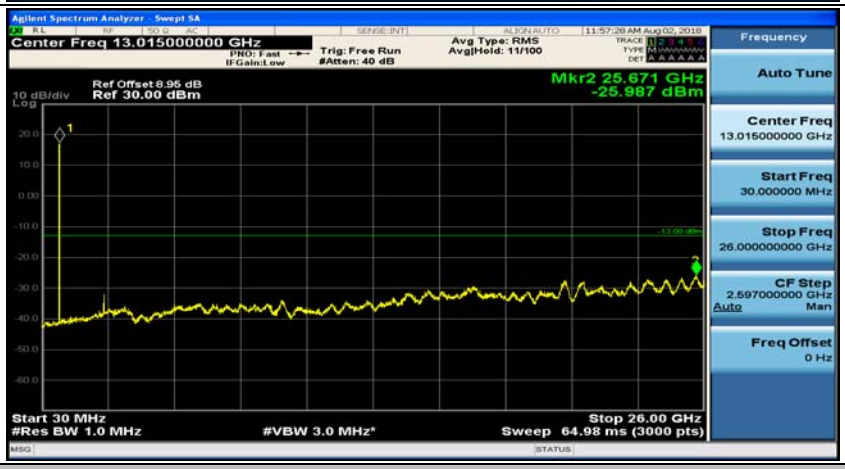


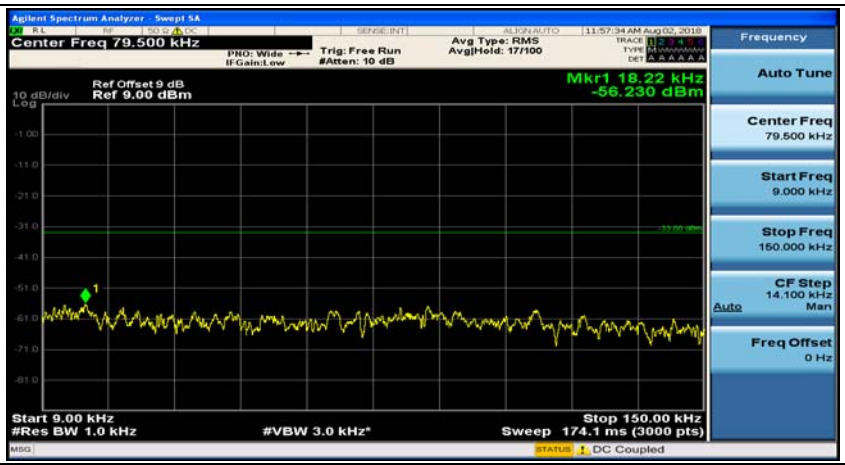
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

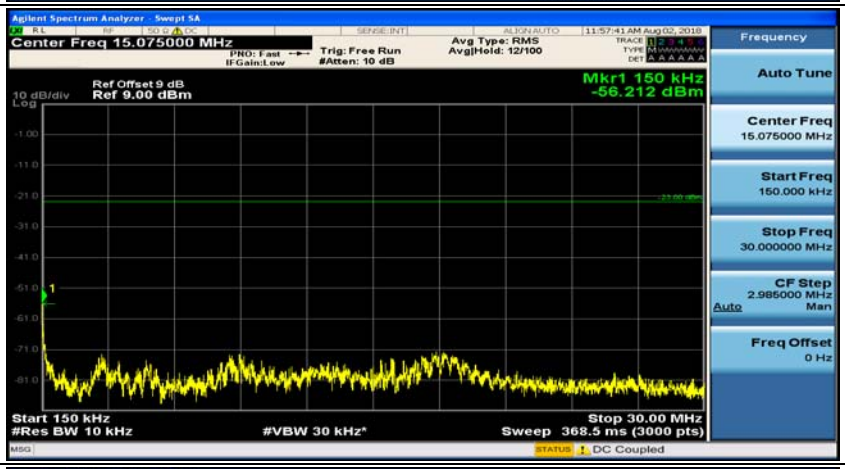

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:55:53 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 12.10 kHz
-55.281 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz
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

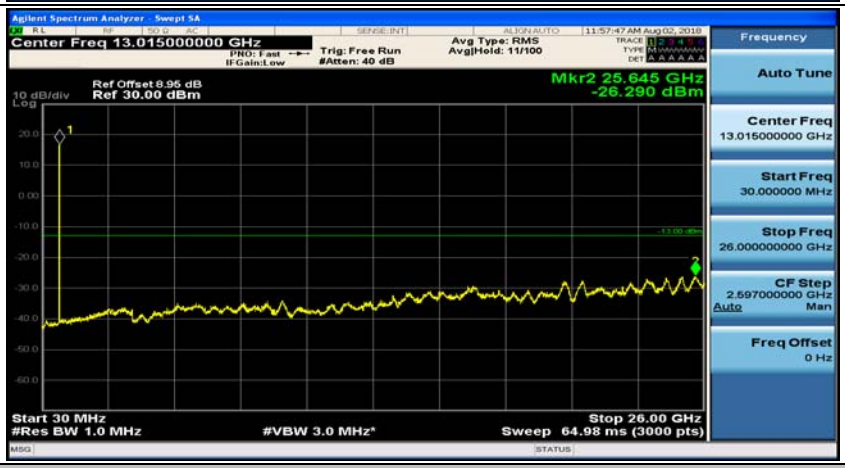

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
11:56:00 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 160 kHz
-54.399 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled


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
11:56:06 AM Aug 02, 2018
Frequency
Auto Tune
Mkr2 25.636 GHz
-25.582 dBm
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
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
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)

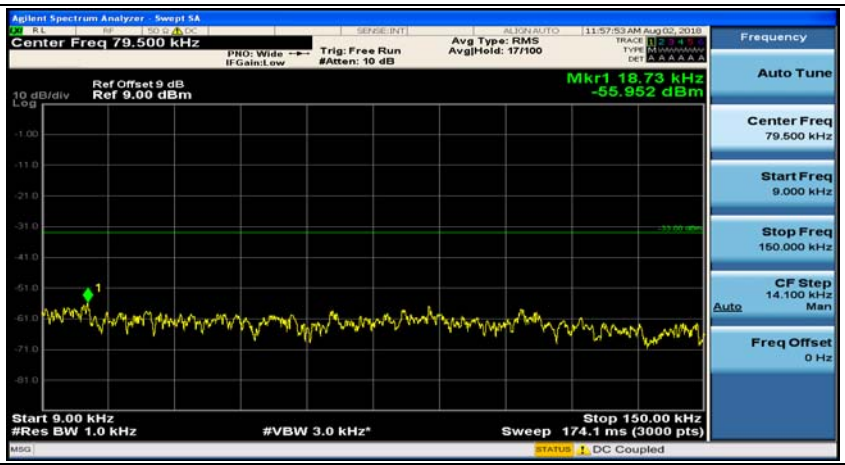
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

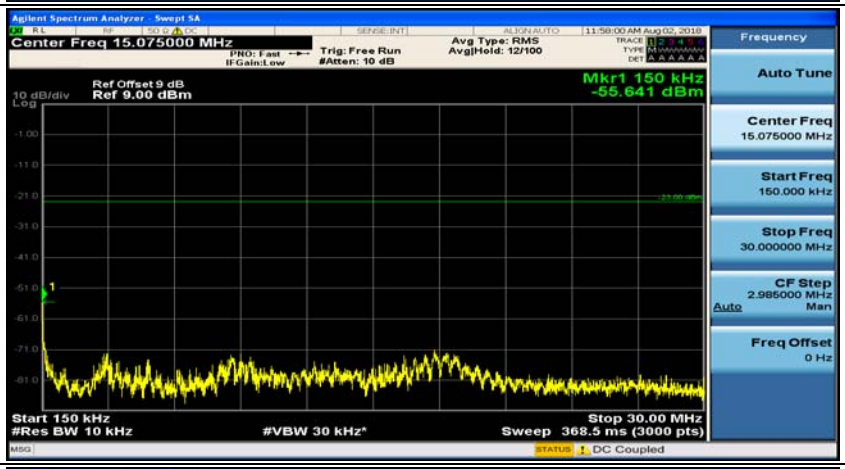


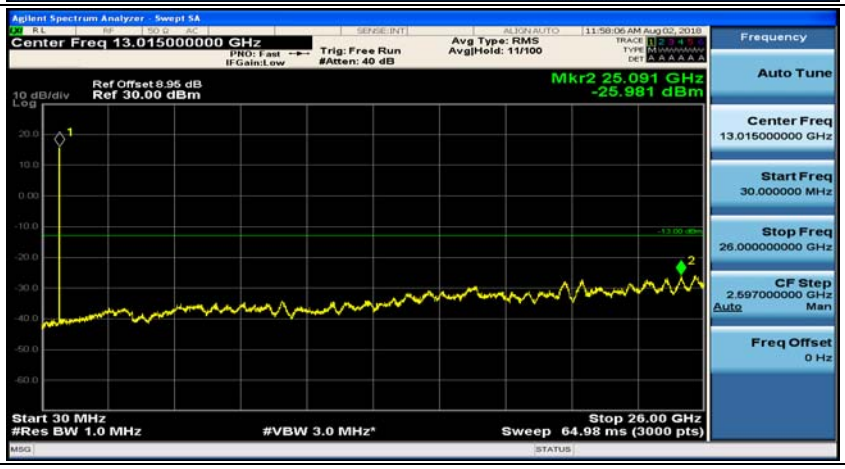




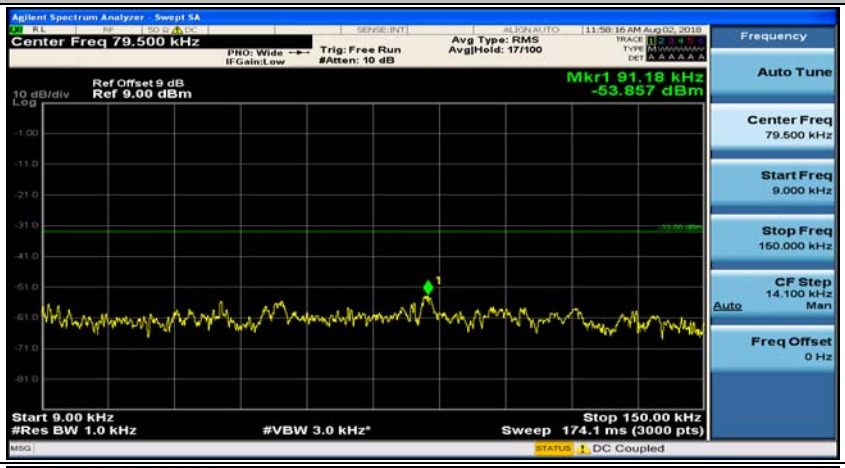
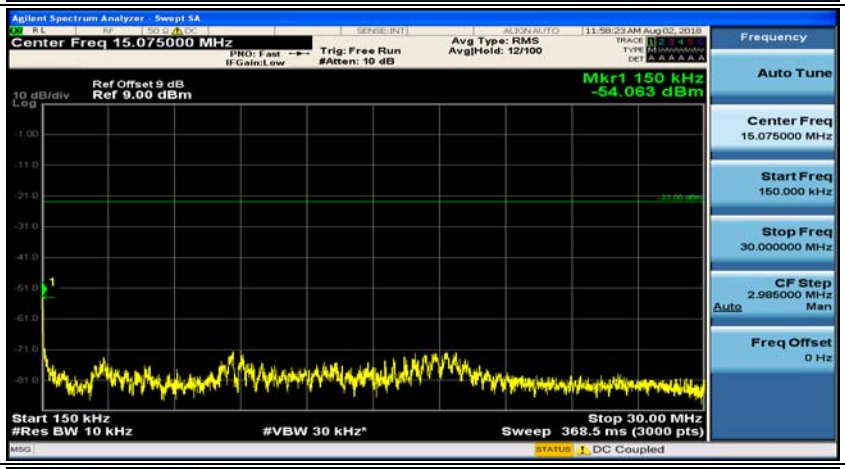
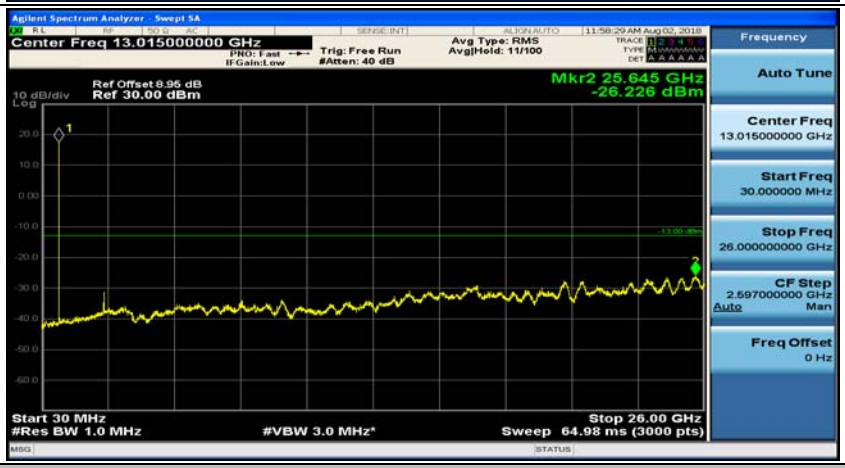
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

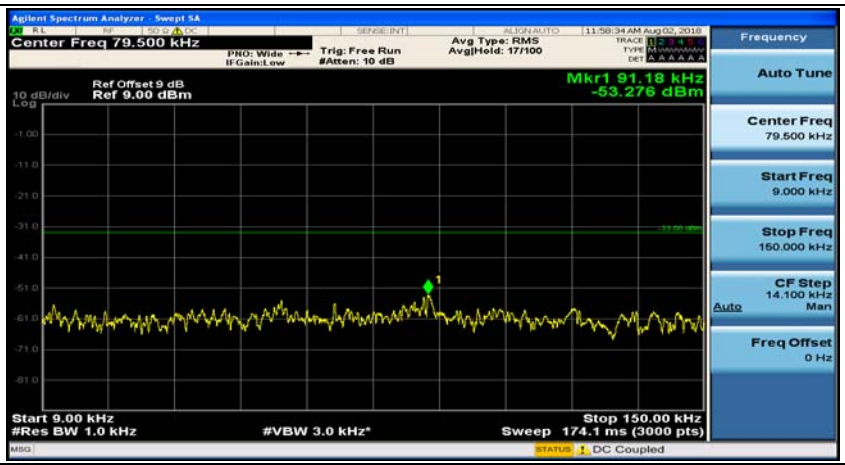

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:57:53 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 18.73 kHz
-55.952 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz
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

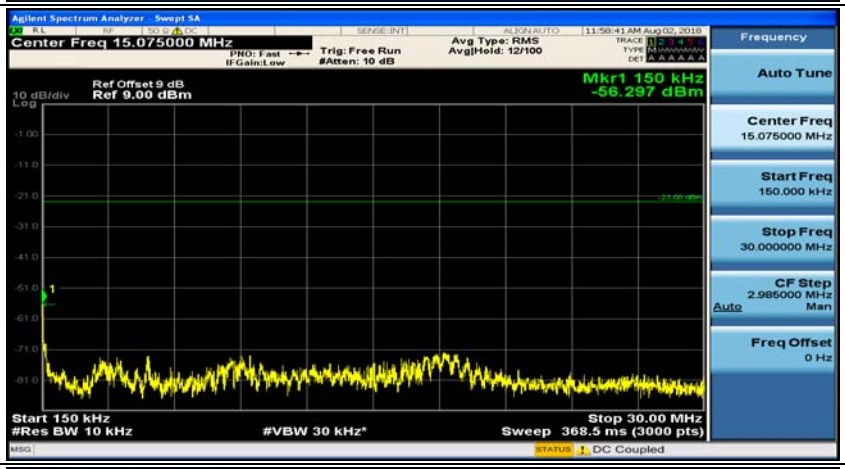

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
11:58:00 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 150 kHz
-55.641 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled


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
11:58:06 AM Aug 02, 2018
Frequency
Auto Tune
Mkr2 25.091 GHz
-25.981 dBm
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
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
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)

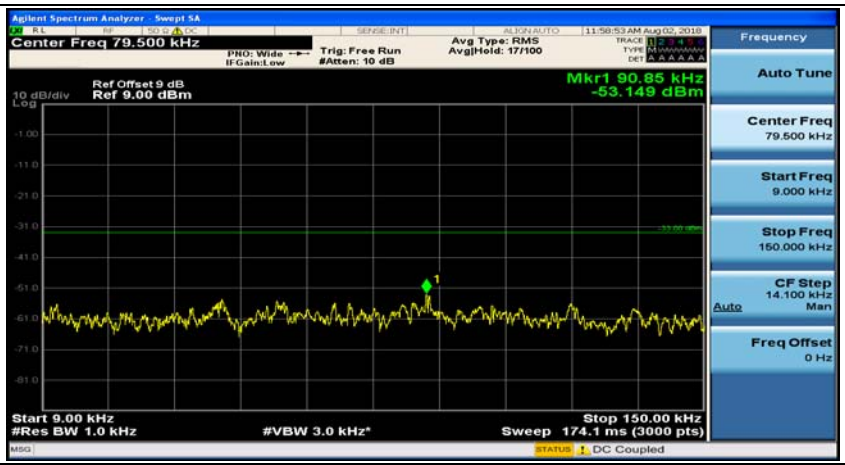
Channel Bandwidth: 10 MHz

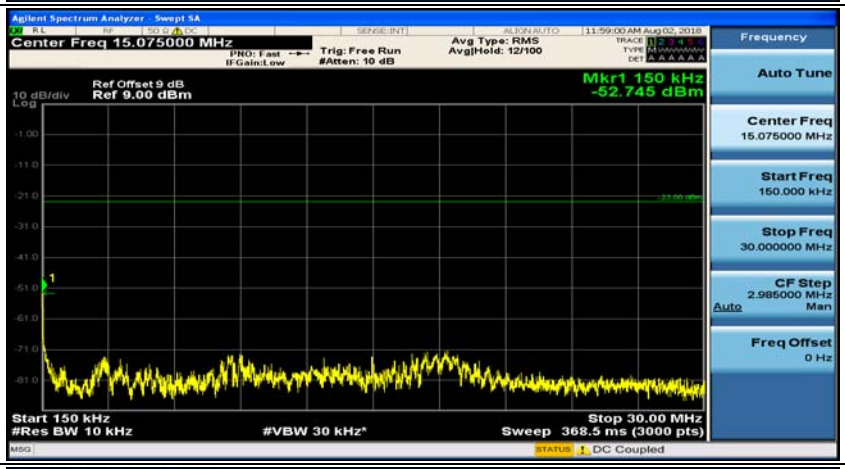
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24

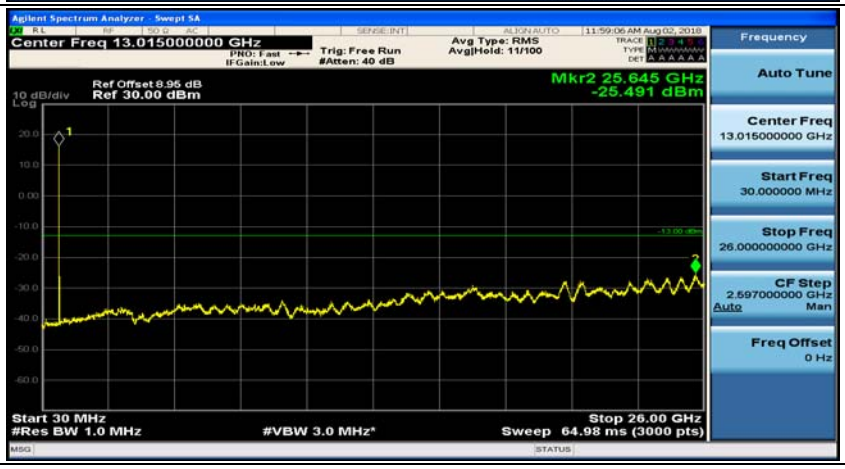


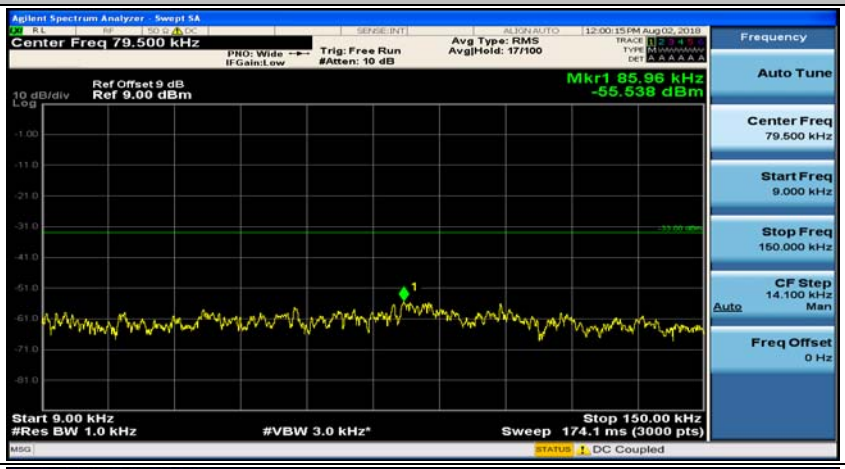
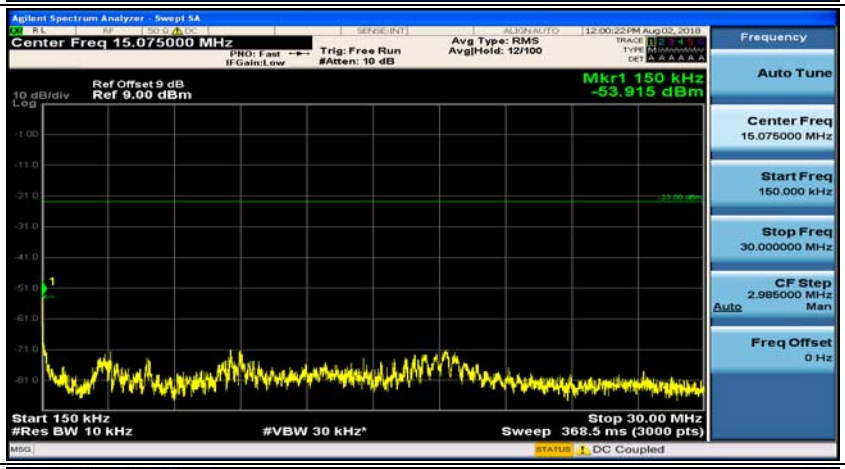
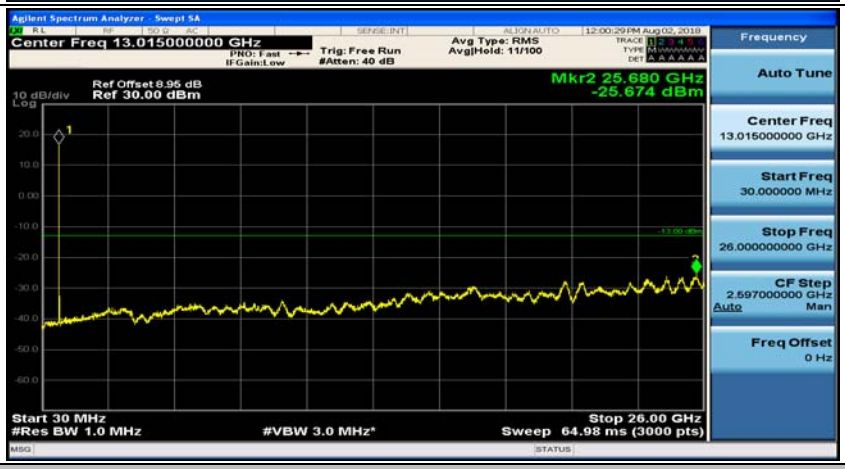


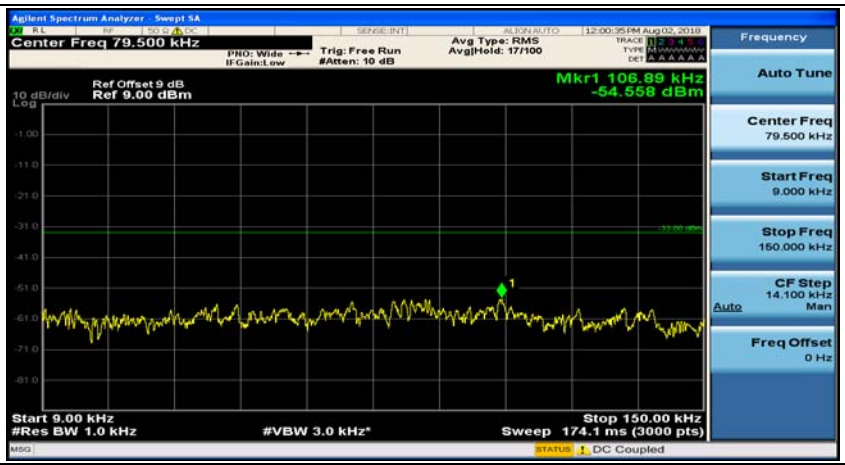
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49

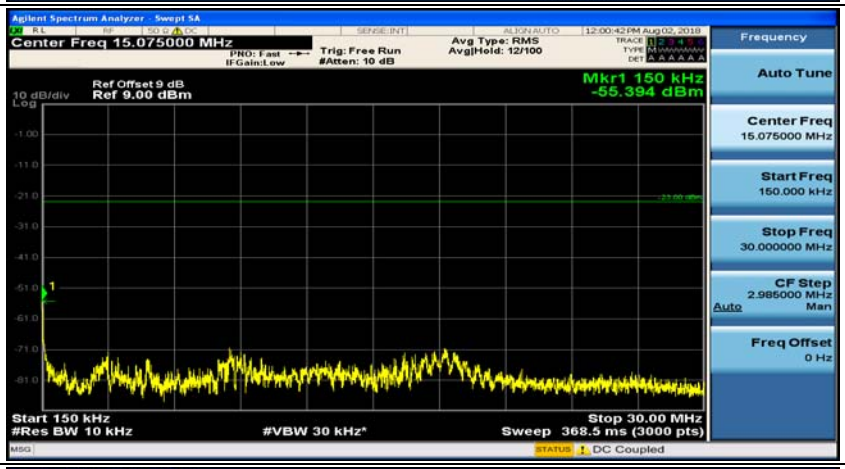

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:58:53 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 90.85 kHz
-53.149 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz
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

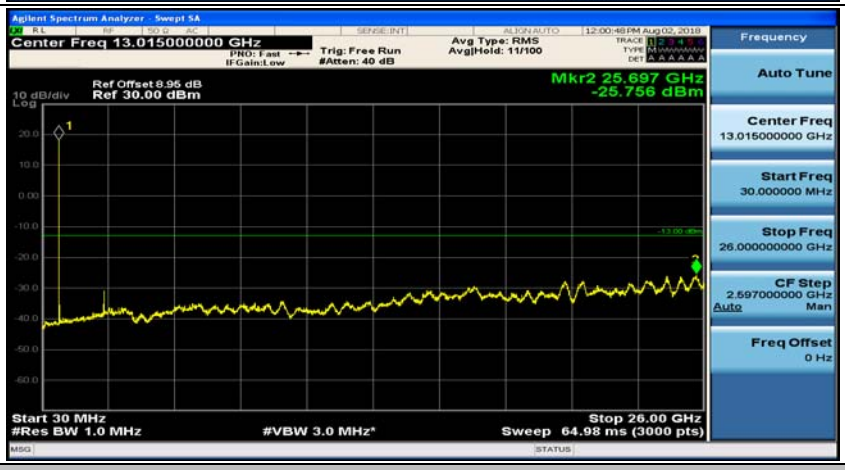

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
11:59:00 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 150 kHz
-52.745 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled


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
11:59:06 AM Aug 02, 2018
Frequency
Auto Tune
Mkr2 25.645 GHz
-25.491 dBm
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
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
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)

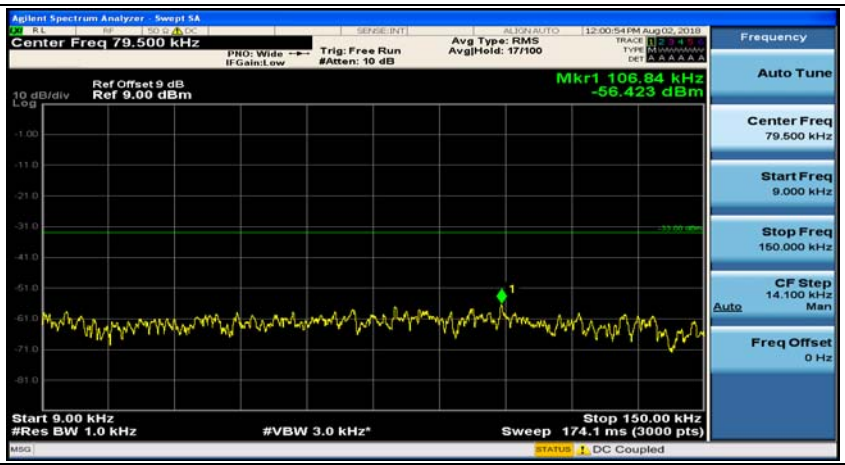
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

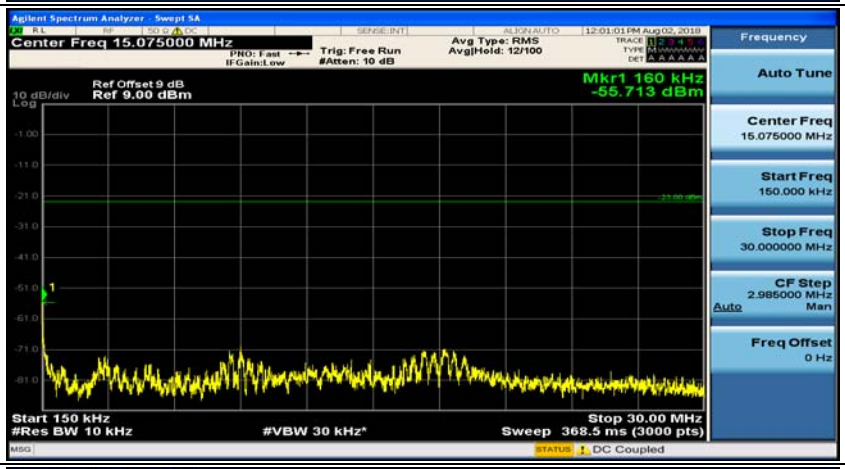


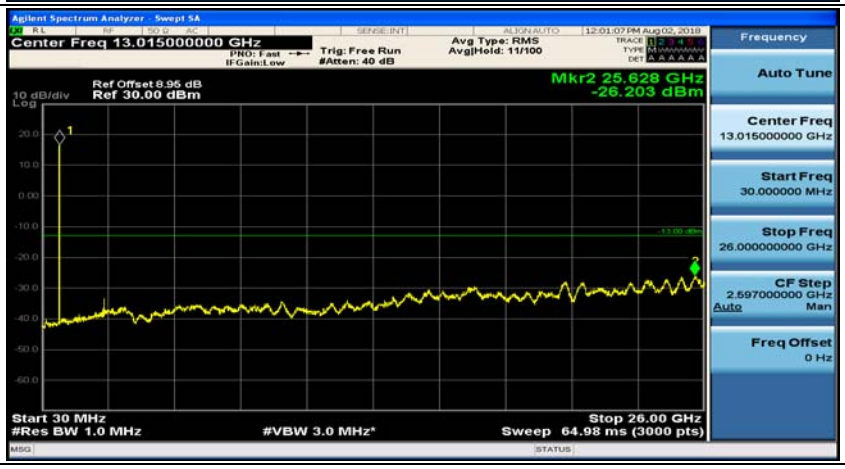


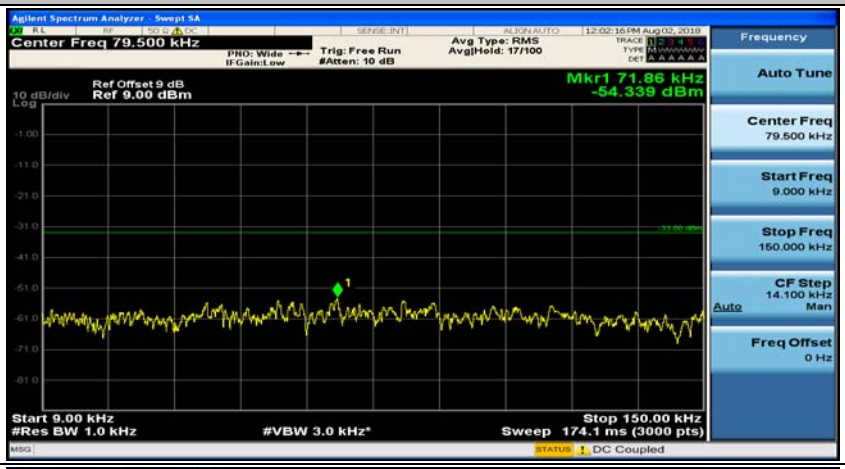
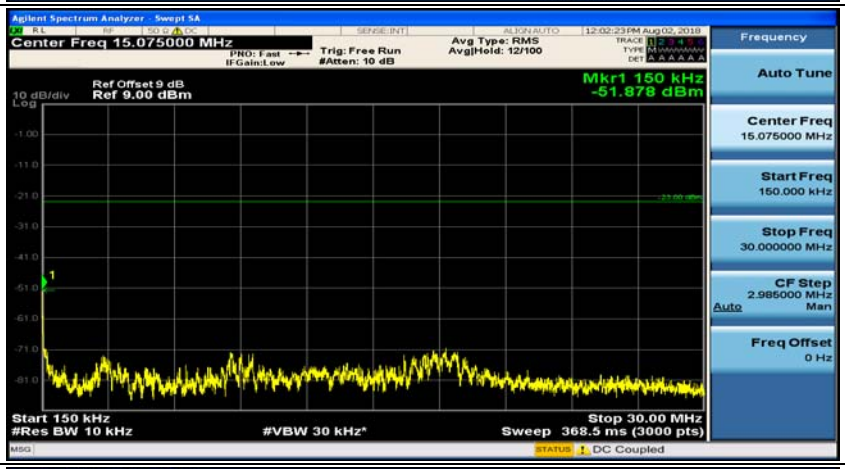
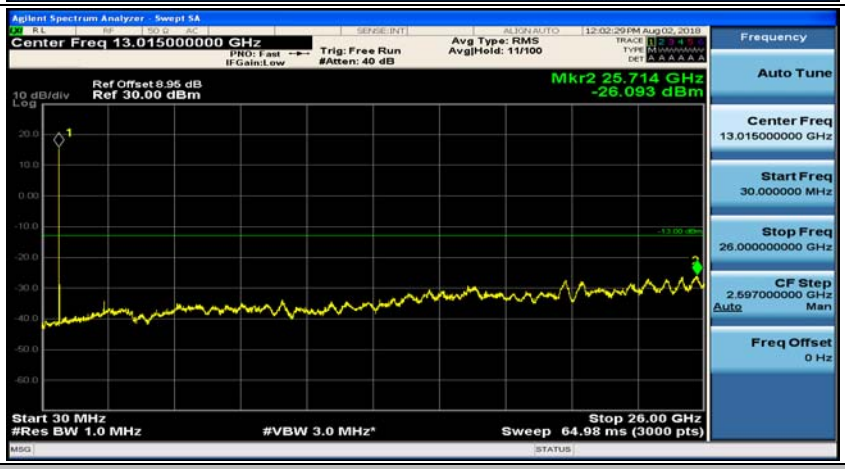


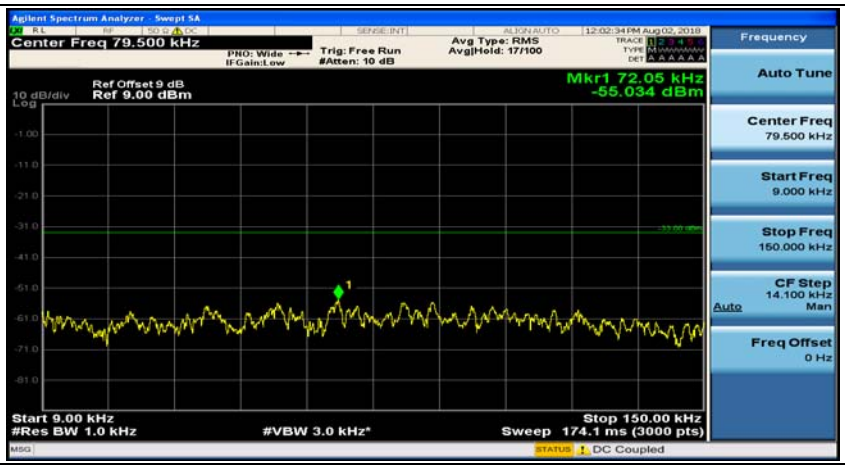
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

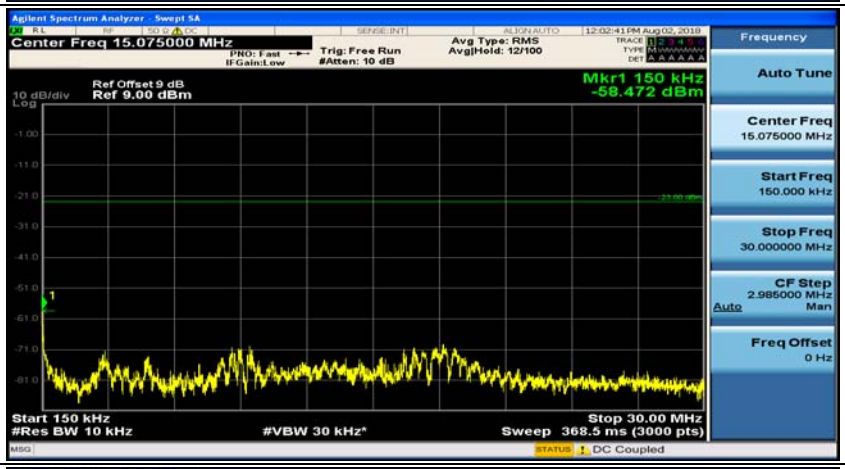

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
12:00:54 PM Aug 02, 2018
Frequency
Auto Tune
Mkr1 106.84 kHz
-56.423 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz
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


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
12:01:01 PM Aug 02, 2018
Frequency
Auto Tune
Mkr1 160 kHz
-55.713 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
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
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled

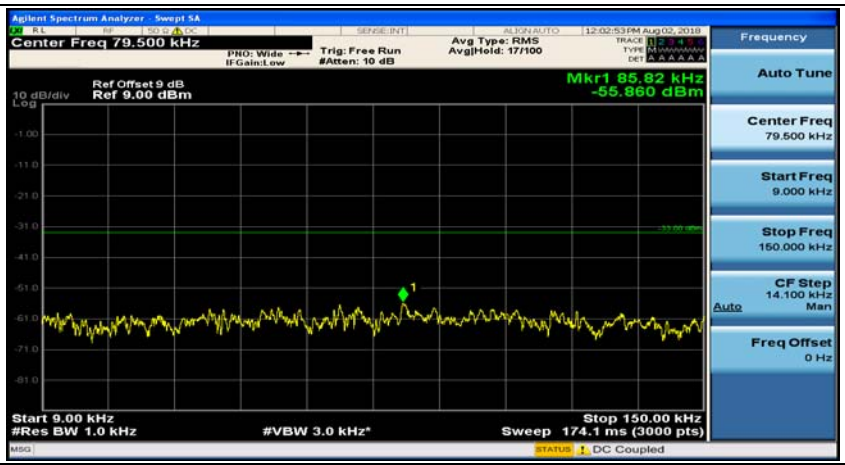

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 11/100
12:01:07 PM Aug 02, 2018
Frequency
Auto Tune
Mkr2 25.628 GHz
-26.203 dBm
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)

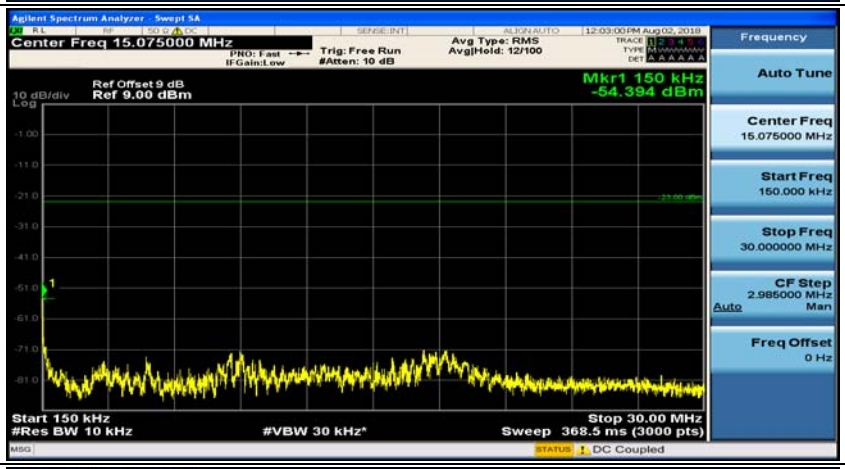
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

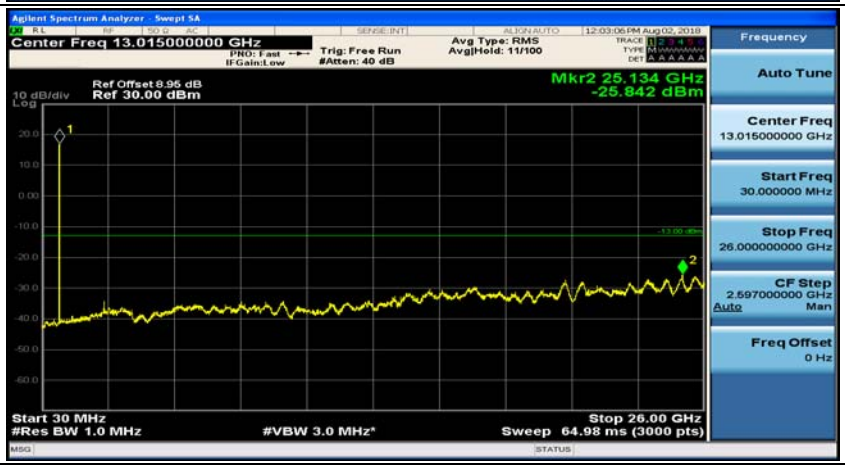


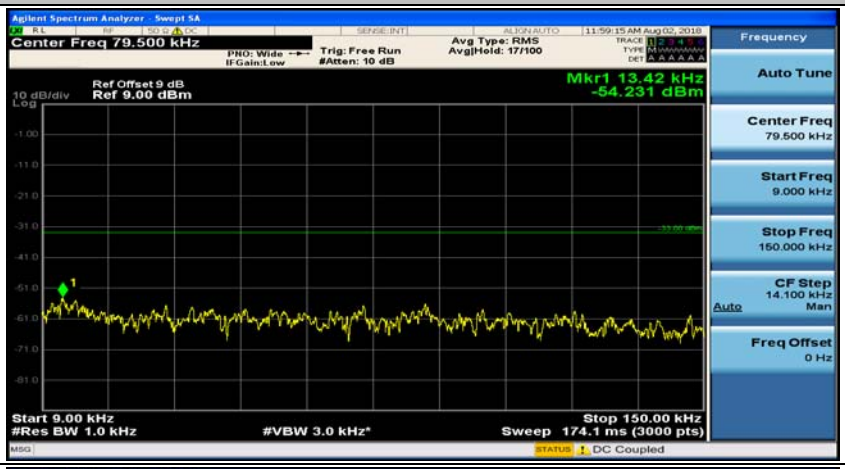
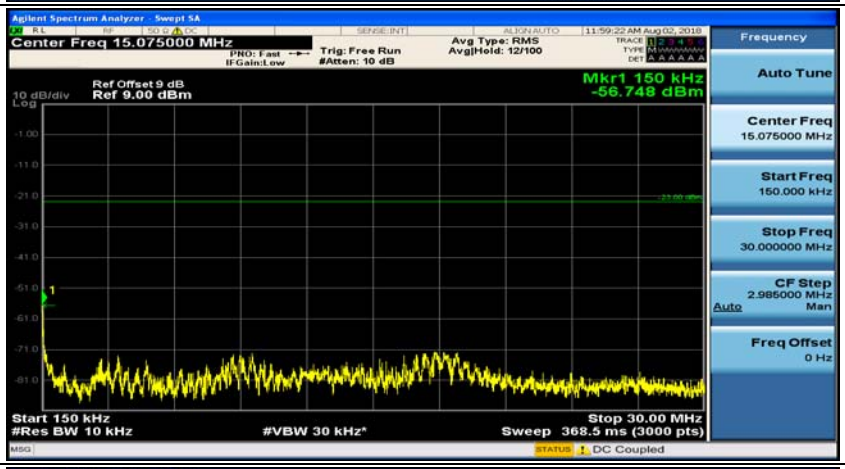
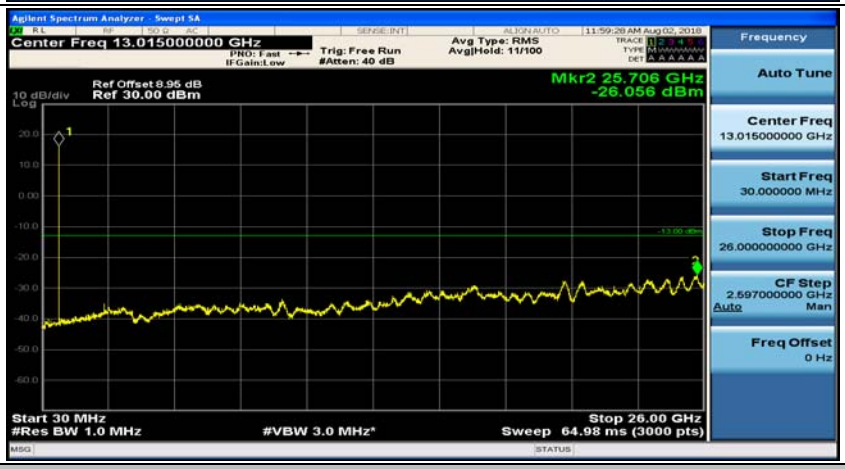


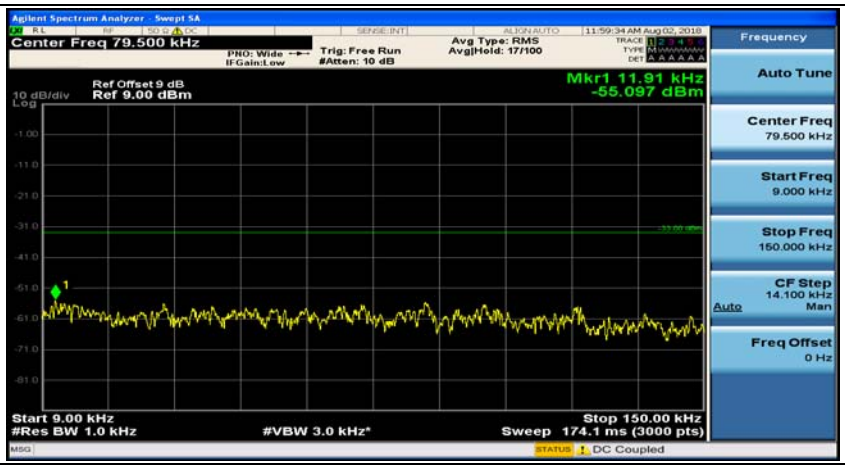
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49

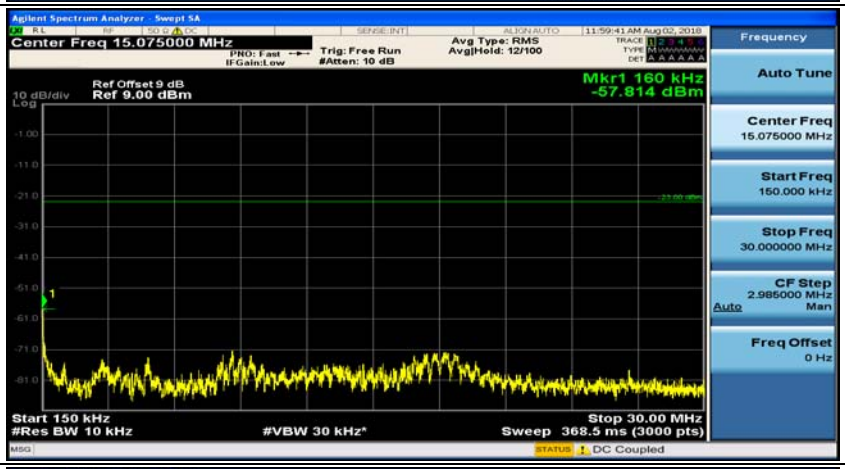

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
12:02:53 PM Aug 02, 2018
Frequency
Auto Tune
Mkr1 85.82 kHz
-55.860 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz
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

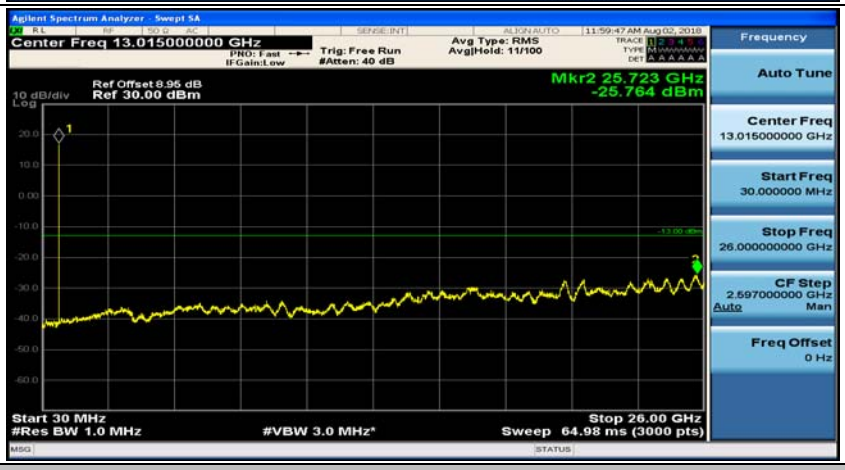

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
12:03:00 PM Aug 02, 2018
Frequency
Auto Tune
Mkr1 150 kHz
-54.394 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled


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
12:03:06 PM Aug 02, 2018
Frequency
Auto Tune
Mkr2 25.134 GHz
-25.842 dBm
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
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
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)

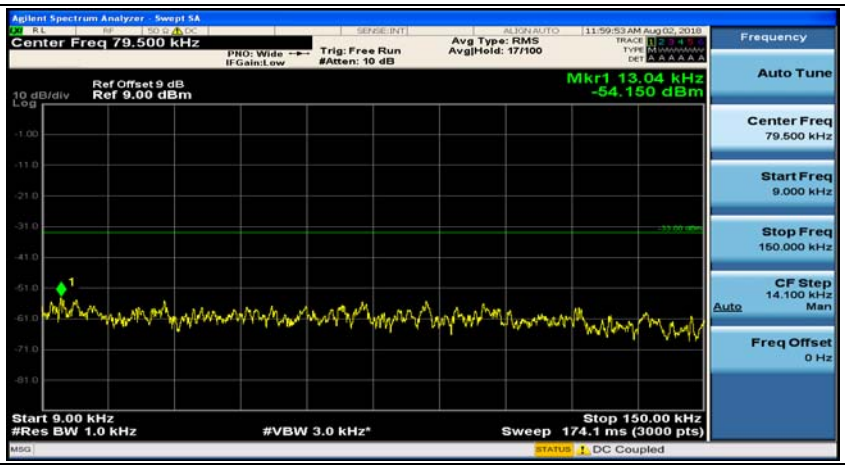
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

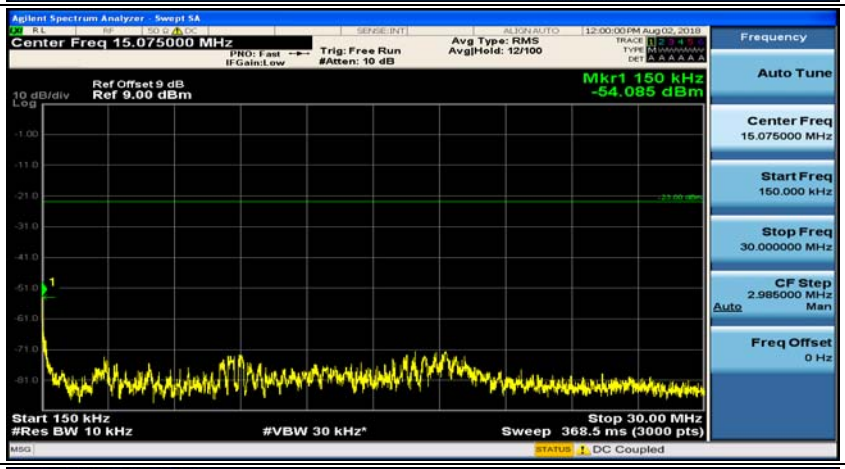


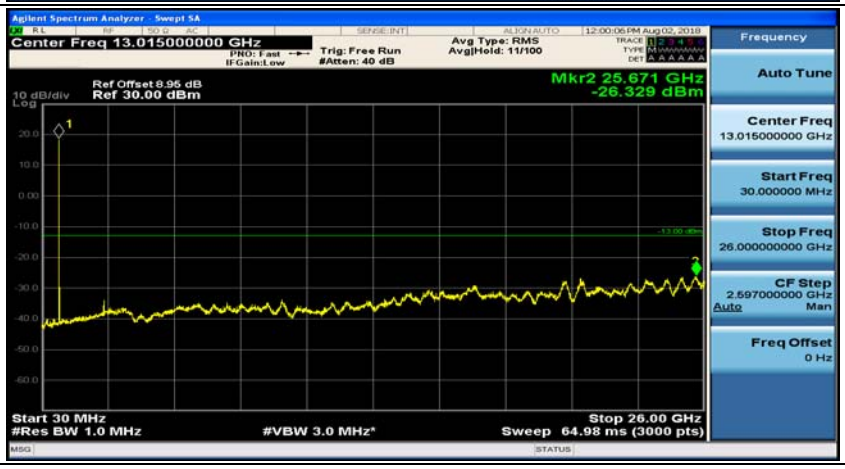


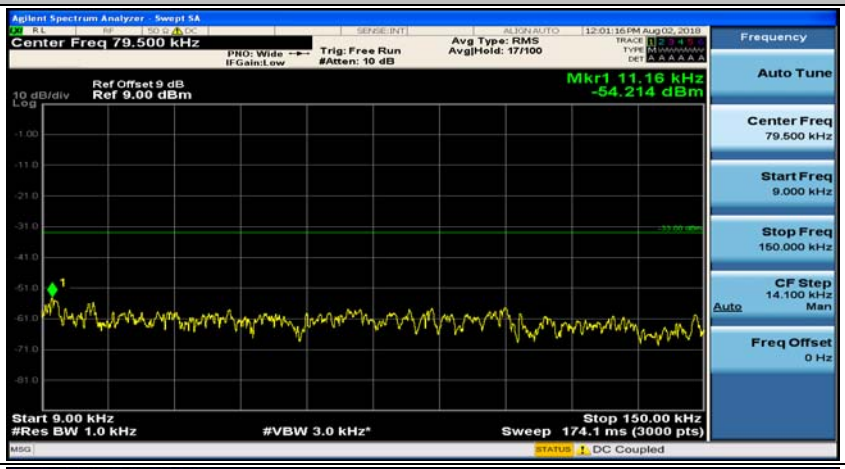
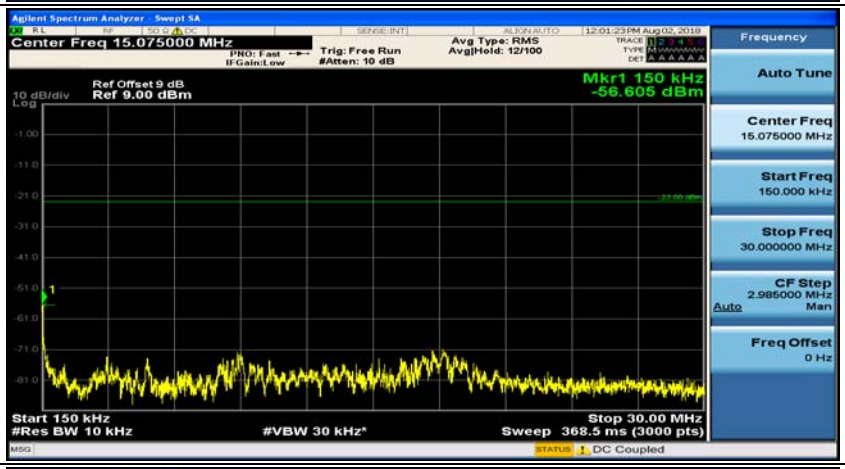
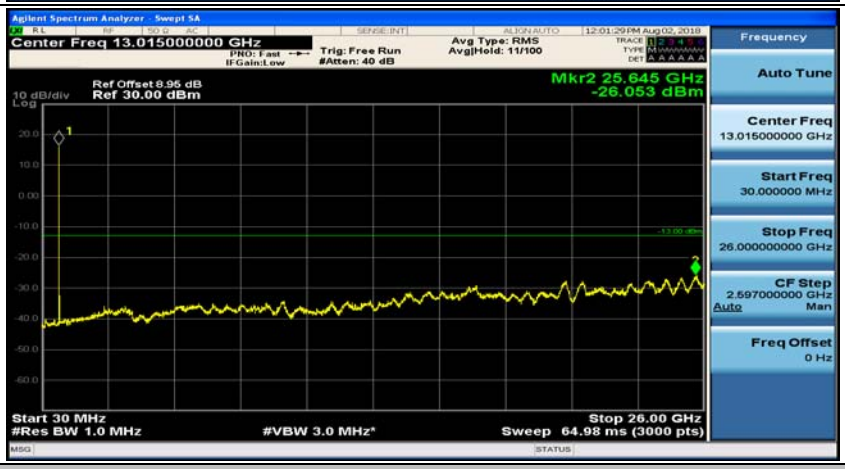


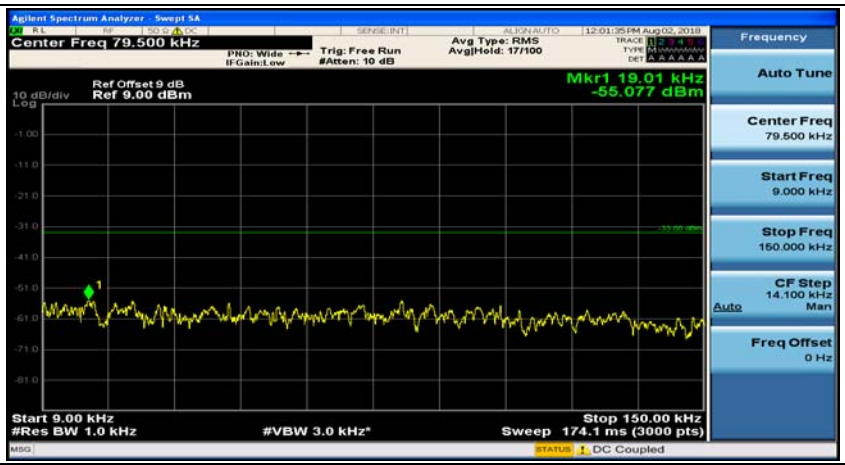
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49

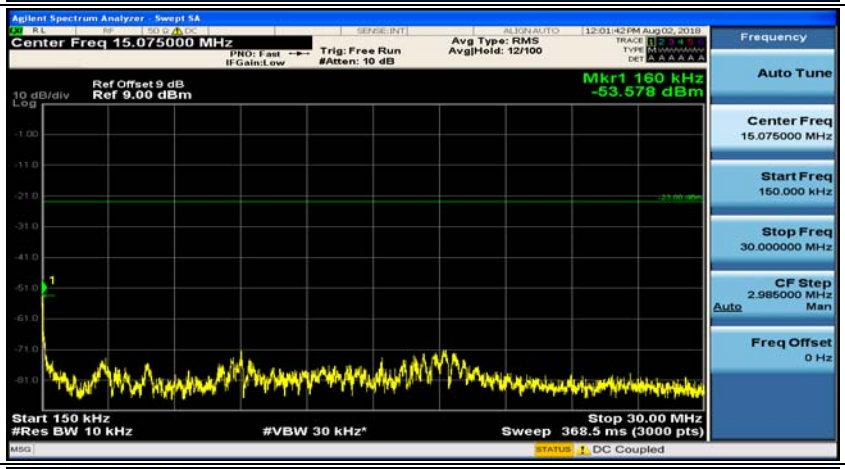

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
11:59:53 AM Aug 02, 2018
Frequency
Auto Tune
Mkr1 13.04 kHz
-54.150 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz
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

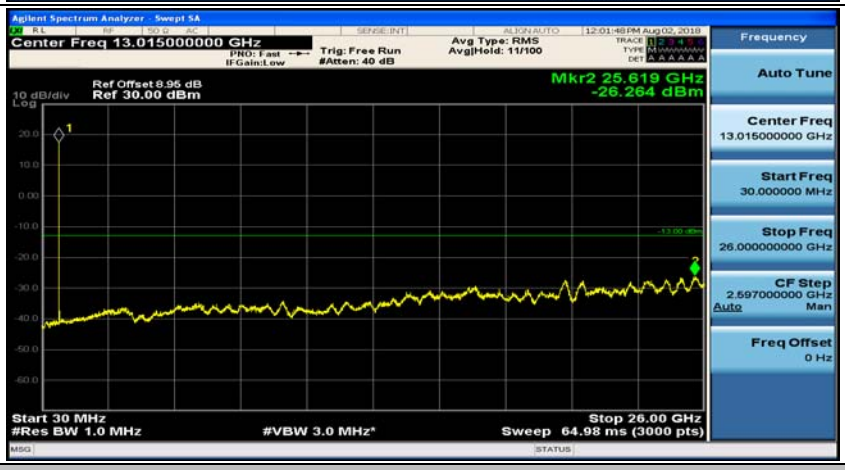

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
12:00:00 PM Aug 02, 2018
Frequency
Auto Tune
Mkr1 150 kHz
-54.085 dBm
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled


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
12:00:06 PM Aug 02, 2018
Frequency
Auto Tune
Mkr2 25.671 GHz
-26.329 dBm
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
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
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)

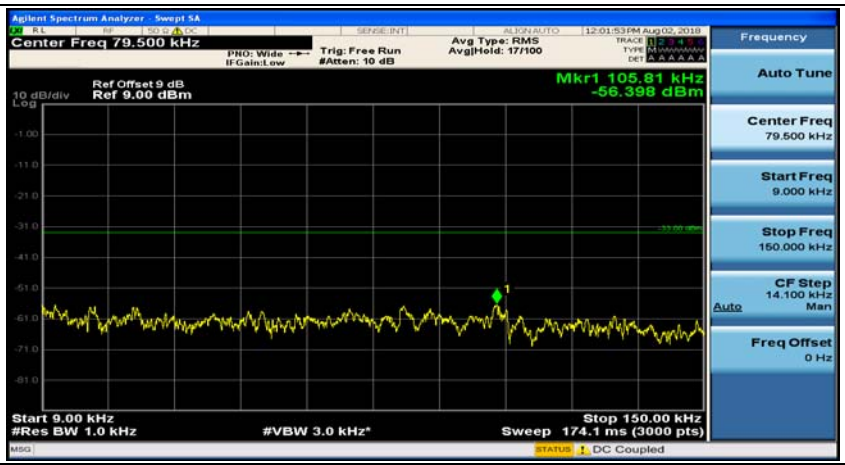
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

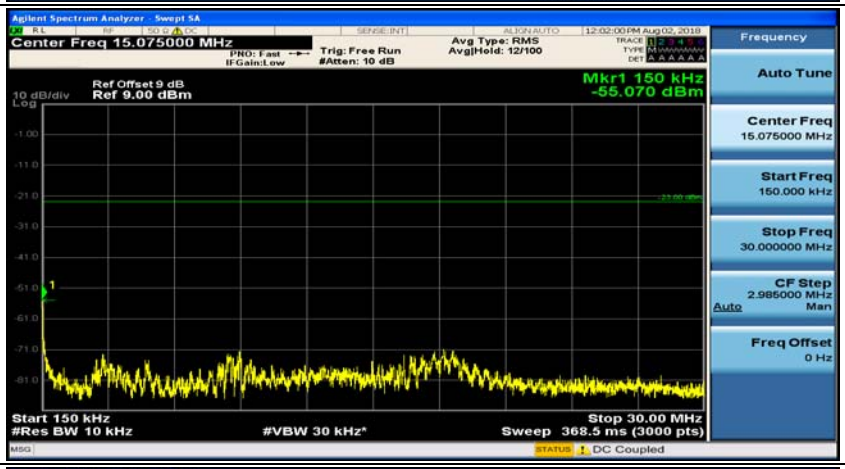


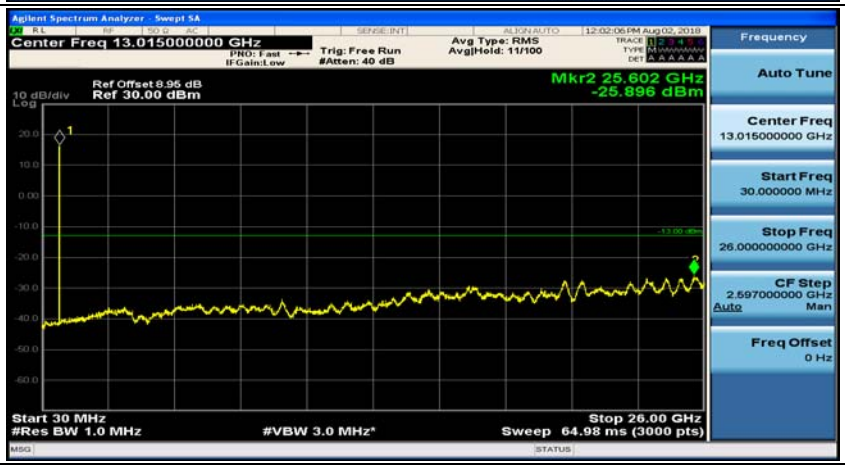


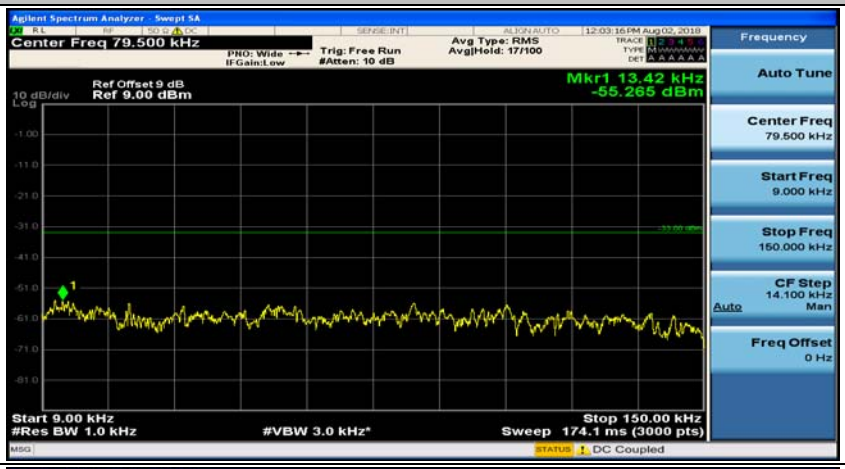
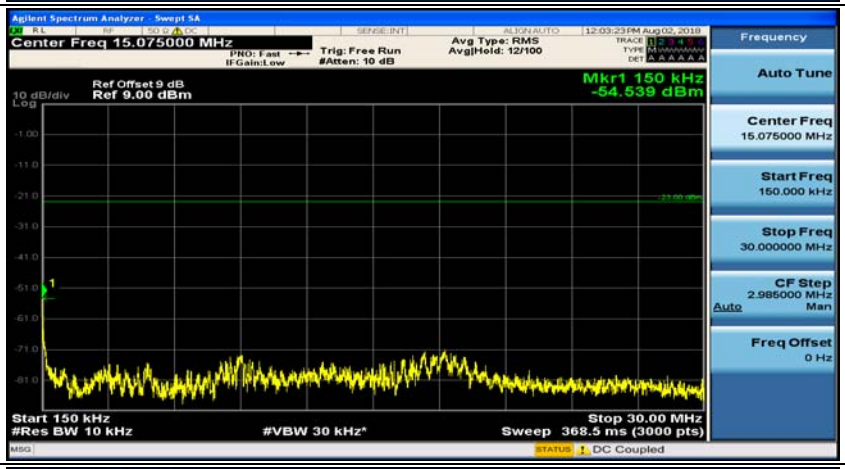
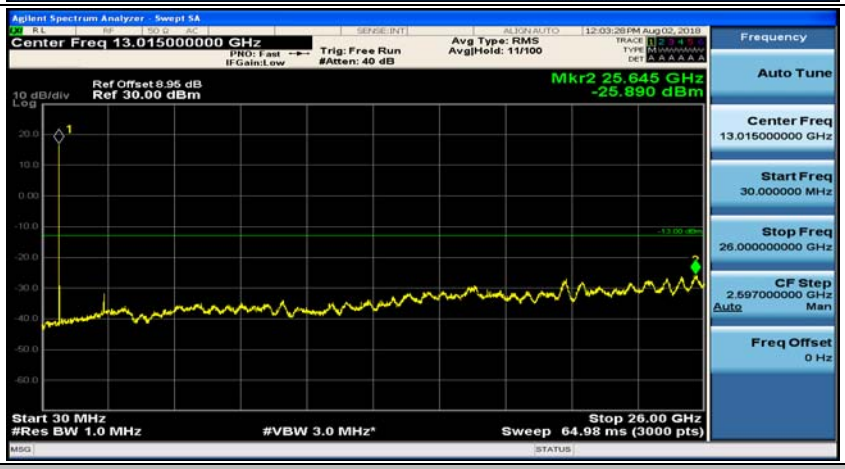


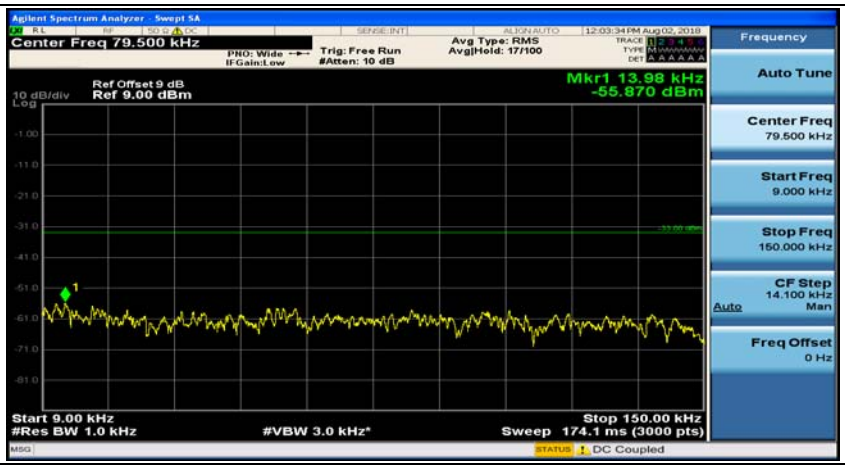
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49

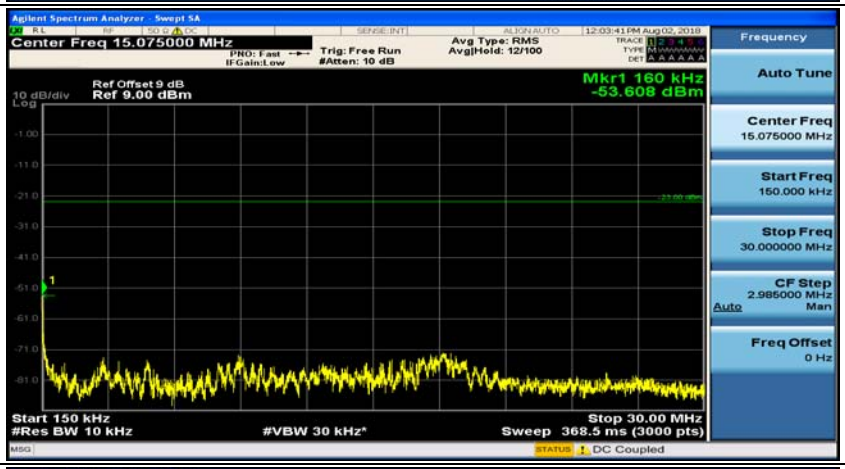

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
12:01:53 PM Aug 02, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Log
Mkr1 105.81 kHz
-56.398 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 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

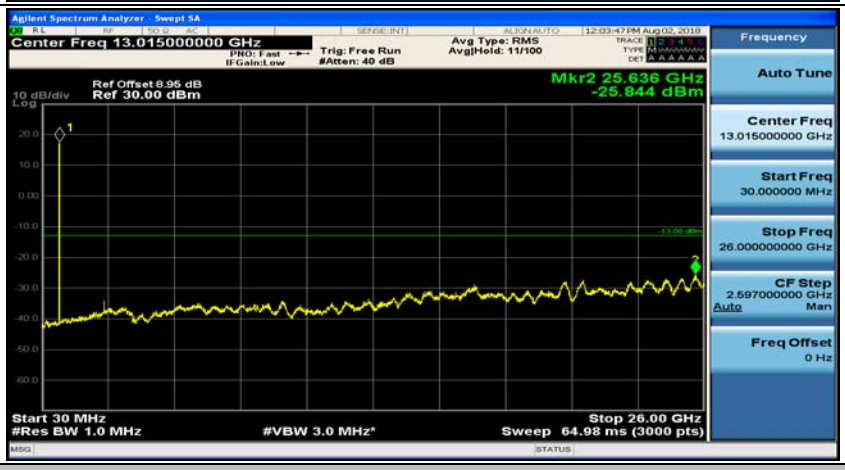

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 12/100
12:02:00 PM Aug 02, 2018
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Log
Mkr1 150 kHz
-55.070 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 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
12:02:06 PM Aug 02, 2018
Ref Offset 8.95 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr2 25.602 GHz
-25.896 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

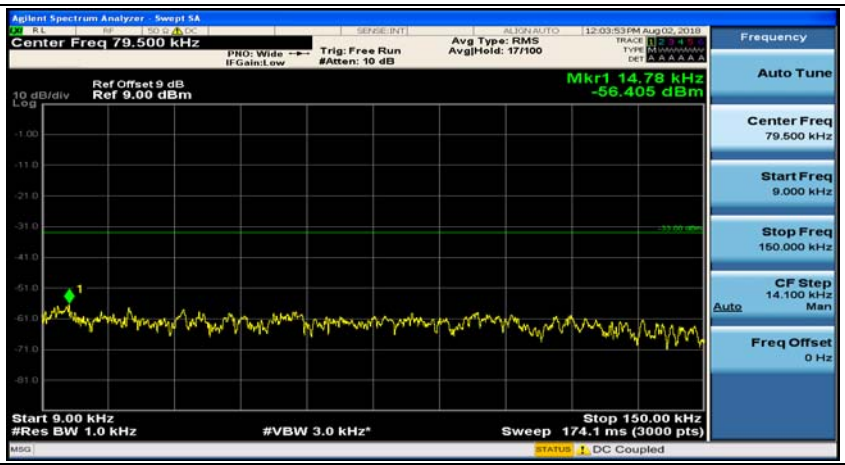
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

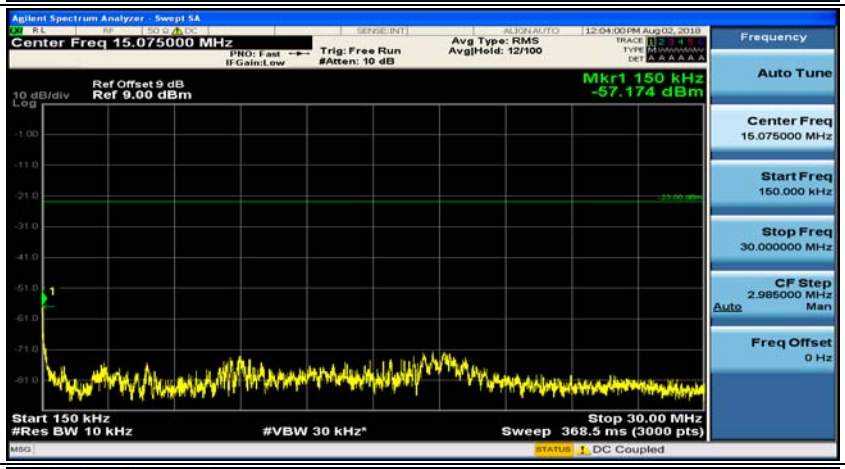


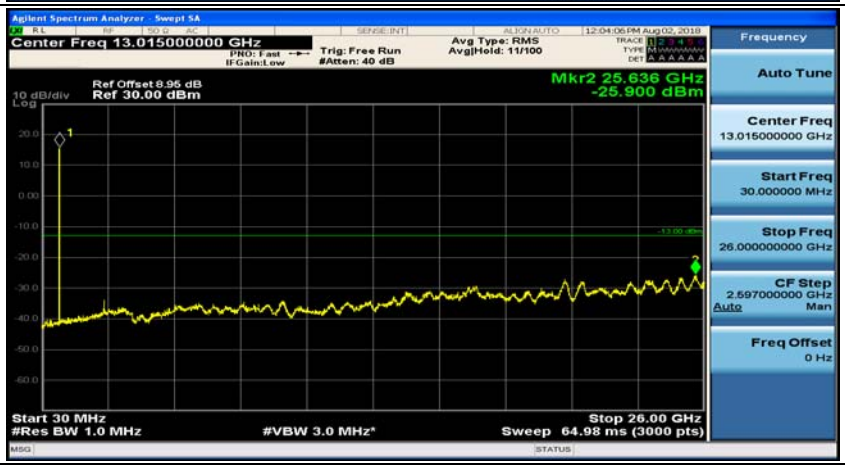




Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49


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
12:03:53 PM Aug 02, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 14.78 kHz
-56.405 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
12:04:00 PM Aug 02, 2018
Ref Offset 9 dB
10 dB/div
Log
Ref 9.00 dBm
Mkr1 150 kHz
-57.174 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
12:04:06 PM Aug 02, 2018
Ref Offset 8.95 dB
10 dB/div
Log
Ref 30.00 dBm
Mkr2 25.636 GHz
-25.900 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	2.01	0.002873	± 2.5	PASS
		VN	TN	3.16	0.004516	± 2.5	PASS
		VH	TN	4.4	0.006288	± 2.5	PASS
	MCH	VL	TN	2.22	0.003138	± 2.5	PASS
		VN	TN	3.84	0.005428	± 2.5	PASS
		VH	TN	-0.98	-0.001385	± 2.5	PASS
	HCH	VL	TN	-1.22	-0.001706	± 2.5	PASS
		VN	TN	1.16	0.001622	± 2.5	PASS
		VH	TN	-0.37	-0.000517	± 2.5	PASS
16QAM	LCH	VL	TN	4.31	0.006160	± 2.5	PASS
		VN	TN	4.5	0.006431	± 2.5	PASS
		VH	TN	3.59	0.005131	± 2.5	PASS
	MCH	VL	TN	-0.07	-0.000099	± 2.5	PASS
		VN	TN	2.87	0.004057	± 2.5	PASS
		VH	TN	3.63	0.005131	± 2.5	PASS
	HCH	VL	TN	1.73	0.002419	± 2.5	PASS
		VN	TN	1.44	0.002013	± 2.5	PASS
		VH	TN	3.44	0.004809	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.28	0.006117	± 2.5	PASS
		VN	-20	3.13	0.004473	± 2.5	PASS
		VN	-10	0.31	0.000443	± 2.5	PASS
		VN	0	3.2	0.004573	± 2.5	PASS
		VN	10	-1.14	-0.001629	± 2.5	PASS
		VN	20	2.24	0.003201	± 2.5	PASS
		VN	30	1.83	0.002615	± 2.5	PASS
		VN	40	-0.74	-0.001058	± 2.5	PASS
		VN	50	-0.33	-0.000472	± 2.5	PASS
	MCH	VN	-30	2.17	0.003067	± 2.5	PASS
		VN	-20	-1.74	-0.002459	± 2.5	PASS

		VN	-10	4.83	0.006827	± 2.5	PASS
		VN	0	2.45	0.003463	± 2.5	PASS
		VN	10	-0.41	-0.000580	± 2.5	PASS
		VN	20	4.21	0.005951	± 2.5	PASS
		VN	30	-0.63	-0.000890	± 2.5	PASS
		VN	40	-1.09	-0.001541	± 2.5	PASS
		VN	50	0.27	0.000382	± 2.5	PASS
	HCH	VN	-30	4.3	0.006011	± 2.5	PASS
		VN	-20	-1.62	-0.002265	± 2.5	PASS
		VN	-10	-1.72	-0.002405	± 2.5	PASS
		VN	0	-0.06	-0.000084	± 2.5	PASS
		VN	10	-0.13	-0.000182	± 2.5	PASS
		VN	20	4.38	0.006123	± 2.5	PASS
		VN	30	0.79	0.001104	± 2.5	PASS
		VN	40	2.11	0.002950	± 2.5	PASS
		VN	50	-1.36	-0.001901	± 2.5	PASS
16QAM	LCH	VN	-30	3.21	0.004588	± 2.5	PASS
		VN	-20	0.07	0.000100	± 2.5	PASS
		VN	-10	-0.29	-0.000414	± 2.5	PASS
		VN	0	-0.6	-0.000858	± 2.5	PASS
		VN	10	-0.87	-0.001243	± 2.5	PASS
		VN	20	1.82	0.002601	± 2.5	PASS
		VN	30	1.93	0.002758	± 2.5	PASS
		VN	40	4.39	0.006274	± 2.5	PASS
		VN	50	0.19	0.000272	± 2.5	PASS
	MCH	VN	-30	2.38	0.003364	± 2.5	PASS
		VN	-20	3.4	0.004806	± 2.5	PASS
		VN	-10	3.85	0.005442	± 2.5	PASS
		VN	0	3.33	0.004707	± 2.5	PASS
		VN	10	-1.6	-0.002261	± 2.5	PASS
		VN	20	2.94	0.004155	± 2.5	PASS
		VN	30	3.09	0.004367	± 2.5	PASS
		VN	40	3.24	0.004580	± 2.5	PASS
		VN	50	3.47	0.004905	± 2.5	PASS
	HCH	VN	-30	2.86	0.003998	± 2.5	PASS
		VN	-20	0.63	0.000881	± 2.5	PASS
		VN	-10	-0.66	-0.000923	± 2.5	PASS
		VN	0	2.54	0.003551	± 2.5	PASS
		VN	10	1.48	0.002069	± 2.5	PASS
		VN	20	1.44	0.002013	± 2.5	PASS
		VN	30	1.19	0.001664	± 2.5	PASS

		VN	40	-1.9	-0.002656	± 2.5	PASS
		VN	50	-1.76	-0.002461	± 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	2.69	0.003840	± 2.5	PASS
		VN	TN	2.84	0.004054	± 2.5	PASS
		VH	TN	3.58	0.005111	± 2.5	PASS
	MCH	VL	TN	-1.2	-0.001696	± 2.5	PASS
		VN	TN	3.39	0.004792	± 2.5	PASS
		VH	TN	2.64	0.003731	± 2.5	PASS
	HCH	VL	TN	3.47	0.004857	± 2.5	PASS
		VN	TN	2.98	0.004171	± 2.5	PASS
		VH	TN	0.55	0.000770	± 2.5	PASS
16QAM	LCH	VL	TN	4.36	0.006224	± 2.5	PASS
		VN	TN	-1.38	-0.001970	± 2.5	PASS
		VH	TN	3.67	0.005239	± 2.5	PASS
	MCH	VL	TN	2.07	0.002926	± 2.5	PASS
		VN	TN	-1.29	-0.001823	± 2.5	PASS
		VH	TN	-1.6	-0.002261	± 2.5	PASS
	HCH	VL	TN	-0.09	-0.000126	± 2.5	PASS
		VN	TN	-1.86	-0.002603	± 2.5	PASS
		VH	TN	-1.34	-0.001875	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.7	0.005282	± 2.5	PASS
		VN	-20	0.51	0.000728	± 2.5	PASS
		VN	-10	3.69	0.005268	± 2.5	PASS
		VN	0	4.24	0.006053	± 2.5	PASS
		VN	10	3.17	0.004525	± 2.5	PASS
		VN	20	1.41	0.002013	± 2.5	PASS
		VN	30	1.29	0.001842	± 2.5	PASS
		VN	40	4.88	0.006966	± 2.5	PASS
		VN	50	-0.71	-0.001014	± 2.5	PASS
	MCH	VN	-30	0.94	0.001329	± 2.5	PASS
		VN	-20	-0.66	-0.000933	± 2.5	PASS
		VN	-10	-1.51	-0.002134	± 2.5	PASS

		VN	0	-0.3	-0.000424	± 2.5	PASS
		VN	10	1.93	0.002728	± 2.5	PASS
		VN	20	-0.28	-0.000396	± 2.5	PASS
		VN	30	4.54	0.006417	± 2.5	PASS
		VN	40	3.08	0.004353	± 2.5	PASS
		VN	50	1.65	0.002332	± 2.5	PASS
	HCH	VN	-30	0.84	0.001176	± 2.5	PASS
		VN	-20	0.25	0.000350	± 2.5	PASS
		VN	-10	2.73	0.003821	± 2.5	PASS
		VN	0	2.48	0.003471	± 2.5	PASS
		VN	10	4.75	0.006648	± 2.5	PASS
		VN	20	0.47	0.000658	± 2.5	PASS
		VN	30	3.71	0.005192	± 2.5	PASS
		VN	40	3.89	0.005444	± 2.5	PASS
		VN	50	0.45	0.000630	± 2.5	PASS
16QAM	LCH	VN	-30	-0.53	-0.000757	± 2.5	PASS
		VN	-20	3.7	0.005282	± 2.5	PASS
		VN	-10	3.35	0.004782	± 2.5	PASS
		VN	0	1.54	0.002198	± 2.5	PASS
		VN	10	3.36	0.004797	± 2.5	PASS
		VN	20	4.76	0.006795	± 2.5	PASS
		VN	30	3.33	0.004754	± 2.5	PASS
		VN	40	4.65	0.006638	± 2.5	PASS
		VN	50	0.49	0.000700	± 2.5	PASS
	MCH	VN	-30	0.35	0.000495	± 2.5	PASS
		VN	-20	-0.92	-0.001300	± 2.5	PASS
		VN	-10	3.99	0.005640	± 2.5	PASS
		VN	0	-1.69	-0.002389	± 2.5	PASS
		VN	10	3.6	0.005088	± 2.5	PASS
		VN	20	4.43	0.006261	± 2.5	PASS
		VN	30	2.84	0.004014	± 2.5	PASS
		VN	40	1.41	0.001993	± 2.5	PASS
		VN	50	1.92	0.002714	± 2.5	PASS
	HCH	VN	-30	1.67	0.002337	± 2.5	PASS
		VN	-20	-0.72	-0.001008	± 2.5	PASS
		VN	-10	2.76	0.003863	± 2.5	PASS
		VN	0	3.64	0.005094	± 2.5	PASS
		VN	10	4.82	0.006746	± 2.5	PASS
		VN	20	0.19	0.000266	± 2.5	PASS
		VN	30	-1.56	-0.002183	± 2.5	PASS
		VN	40	-1.46	-0.002043	± 2.5	PASS

		VN	50	0.67	0.000938	± 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	3.95	0.005631	± 2.5	PASS
		VN	TN	3.64	0.005189	± 2.5	PASS
		VH	TN	0.37	0.000527	± 2.5	PASS
	MCH	VL	TN	4.01	0.005668	± 2.5	PASS
		VN	TN	3.46	0.004890	± 2.5	PASS
		VH	TN	1.93	0.002728	± 2.5	PASS
	HCH	VL	TN	0.42	0.000589	± 2.5	PASS
		VN	TN	2.16	0.003027	± 2.5	PASS
		VH	TN	0.6	0.000841	± 2.5	PASS
16QAM	LCH	VL	TN	2.96	0.004220	± 2.5	PASS
		VN	TN	2.47	0.003521	± 2.5	PASS
		VH	TN	1.03	0.001468	± 2.5	PASS
	MCH	VL	TN	0.6	0.000848	± 2.5	PASS
		VN	TN	2.37	0.003350	± 2.5	PASS
		VH	TN	0.5	0.000707	± 2.5	PASS
	HCH	VL	TN	3.25	0.004555	± 2.5	PASS
		VN	TN	-0.39	-0.000547	± 2.5	PASS
		VH	TN	1.56	0.002186	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.63	0.003749	± 2.5	PASS
		VN	-20	1.46	0.002081	± 2.5	PASS
		VN	-10	2.19	0.003122	± 2.5	PASS
		VN	0	-0.54	-0.000770	± 2.5	PASS
		VN	10	4.24	0.006044	± 2.5	PASS
		VN	20	1.56	0.002224	± 2.5	PASS
		VN	30	4.33	0.006172	± 2.5	PASS
		VN	40	-0.15	-0.000214	± 2.5	PASS
		VN	50	-1.12	-0.001597	± 2.5	PASS
	MCH	VN	-30	0.04	0.000057	± 2.5	PASS
		VN	-20	-1.79	-0.002530	± 2.5	PASS
		VN	-10	4.22	0.005965	± 2.5	PASS
		VN	0	-1.84	-0.002601	± 2.5	PASS

		VN	10	3.86	0.005456	± 2.5	PASS
		VN	20	3.24	0.004580	± 2.5	PASS
		VN	30	3.81	0.005385	± 2.5	PASS
		VN	40	1.15	0.001625	± 2.5	PASS
		VN	50	3.2	0.004523	± 2.5	PASS
	HCH	VN	-30	2.19	0.003069	± 2.5	PASS
		VN	-20	0.5	0.000701	± 2.5	PASS
		VN	-10	3.62	0.005074	± 2.5	PASS
		VN	0	-1.34	-0.001878	± 2.5	PASS
		VN	10	2.47	0.003462	± 2.5	PASS
		VN	20	-0.76	-0.001065	± 2.5	PASS
		VN	30	1.14	0.001598	± 2.5	PASS
		VN	40	0.89	0.001247	± 2.5	PASS
		VN	50	-0.95	-0.001331	± 2.5	PASS
16QAM	LCH	VN	-30	2.51	0.003578	± 2.5	PASS
		VN	-20	-0.76	-0.001083	± 2.5	PASS
		VN	-10	-0.52	-0.000741	± 2.5	PASS
		VN	0	1.41	0.002010	± 2.5	PASS
		VN	10	0.5	0.000713	± 2.5	PASS
		VN	20	1.93	0.002751	± 2.5	PASS
		VN	30	0.85	0.001212	± 2.5	PASS
		VN	40	1.8	0.002566	± 2.5	PASS
		VN	50	3.47	0.004947	± 2.5	PASS
	MCH	VN	-30	-1.58	-0.002233	± 2.5	PASS
		VN	-20	3.08	0.004353	± 2.5	PASS
		VN	-10	4.83	0.006827	± 2.5	PASS
		VN	0	4.77	0.006742	± 2.5	PASS
		VN	10	-0.9	-0.001272	± 2.5	PASS
		VN	20	1.37	0.001936	± 2.5	PASS
		VN	30	4.43	0.006261	± 2.5	PASS
		VN	40	4.39	0.006205	± 2.5	PASS
		VN	50	3.26	0.004608	± 2.5	PASS
	HCH	VN	-30	-1.98	-0.002775	± 2.5	PASS
		VN	-20	2.5	0.003504	± 2.5	PASS
		VN	-10	1.03	0.001444	± 2.5	PASS
		VN	0	0.93	0.001303	± 2.5	PASS
		VN	10	0.18	0.000252	± 2.5	PASS
		VN	20	2.3	0.003224	± 2.5	PASS
		VN	30	0.61	0.000855	± 2.5	PASS
		VN	40	-1.18	-0.001654	± 2.5	PASS
		VN	50	1.05	0.001472	± 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	-0.08	-0.000114	± 2.5	PASS
		VN	TN	4.64	0.006591	± 2.5	PASS
		VH	TN	3.34	0.004744	± 2.5	PASS
	MCH	VL	TN	1.07	0.001512	± 2.5	PASS
		VN	TN	-0.81	-0.001145	± 2.5	PASS
		VH	TN	2.34	0.003307	± 2.5	PASS
	HCH	VL	TN	4.28	0.006020	± 2.5	PASS
		VN	TN	3.21	0.004515	± 2.5	PASS
		VH	TN	0.43	0.000605	± 2.5	PASS
16QAM	LCH	VL	TN	3.4	0.004830	± 2.5	PASS
		VN	TN	-1.89	-0.002685	± 2.5	PASS
		VH	TN	-0.63	-0.000895	± 2.5	PASS
	MCH	VL	TN	2.89	0.004085	± 2.5	PASS
		VN	TN	-1.04	-0.001470	± 2.5	PASS
		VH	TN	2.81	0.003972	± 2.5	PASS
	HCH	VL	TN	4.28	0.006020	± 2.5	PASS
		VN	TN	1.19	0.001674	± 2.5	PASS
		VH	TN	4.6	0.006470	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	3.35	0.004759	± 2.5	PASS
		VN	-20	-0.78	-0.001108	± 2.5	PASS
		VN	-10	3.05	0.004332	± 2.5	PASS
		VN	0	-0.98	-0.001392	± 2.5	PASS
		VN	10	1.56	0.002216	± 2.5	PASS
		VN	20	-1.64	-0.002330	± 2.5	PASS
		VN	30	4.34	0.006165	± 2.5	PASS
		VN	40	3.81	0.005412	± 2.5	PASS
		VN	50	-1.3	-0.001847	± 2.5	PASS
	MCH	VN	-30	0.54	0.000763	± 2.5	PASS
		VN	-20	1.29	0.001823	± 2.5	PASS
		VN	-10	4.98	0.007039	± 2.5	PASS
		VN	0	-0.84	-0.001187	± 2.5	PASS
		VN	10	0.56	0.000792	± 2.5	PASS
		VN	20	0.53	0.000749	± 2.5	PASS

		VN	30	-1.18	-0.001668	± 2.5	PASS
		VN	40	-0.43	-0.000608	± 2.5	PASS
		VN	50	-0.33	-0.000466	± 2.5	PASS
	HCH	VN	-30	-0.03	-0.000042	± 2.5	PASS
		VN	-20	1.4	0.001969	± 2.5	PASS
		VN	-10	1.31	0.001842	± 2.5	PASS
		VN	0	4.57	0.006428	± 2.5	PASS
		VN	10	2.81	0.003952	± 2.5	PASS
		VN	20	2.49	0.003502	± 2.5	PASS
		VN	30	1.59	0.002236	± 2.5	PASS
		VN	40	1.35	0.001899	± 2.5	PASS
		VN	50	3.43	0.004824	± 2.5	PASS
QPSK	LCH	VN	-30	-1.67	-0.002372	± 2.5	PASS
		VN	-20	3.43	0.004872	± 2.5	PASS
		VN	-10	2.33	0.003310	± 2.5	PASS
		VN	0	-0.13	-0.000185	± 2.5	PASS
		VN	10	-0.01	-0.000014	± 2.5	PASS
		VN	20	2.67	0.003793	± 2.5	PASS
		VN	30	2.44	0.003466	± 2.5	PASS
		VN	40	1.16	0.001648	± 2.5	PASS
		VN	50	0.96	0.001364	± 2.5	PASS
	MCH	VN	-30	-1.61	-0.002276	± 2.5	PASS
		VN	-20	-1.95	-0.002756	± 2.5	PASS
		VN	-10	4.24	0.005993	± 2.5	PASS
		VN	0	4.63	0.006544	± 2.5	PASS
		VN	10	3.01	0.004254	± 2.5	PASS
		VN	20	-1.63	-0.002304	± 2.5	PASS
		VN	30	0.44	0.000622	± 2.5	PASS
		VN	40	4.48	0.006332	± 2.5	PASS
		VN	50	2.6	0.003675	± 2.5	PASS
	HCH	VN	-30	1.47	0.002068	± 2.5	PASS
		VN	-20	-0.17	-0.000239	± 2.5	PASS
		VN	-10	2.79	0.003924	± 2.5	PASS
		VN	0	0.33	0.000464	± 2.5	PASS
		VN	10	2.16	0.003038	± 2.5	PASS
		VN	20	2.65	0.003727	± 2.5	PASS
		VN	30	4.49	0.006315	± 2.5	PASS
		VN	40	0.69	0.000970	± 2.5	PASS
		VN	50	4.15	0.005837	± 2.5	PASS