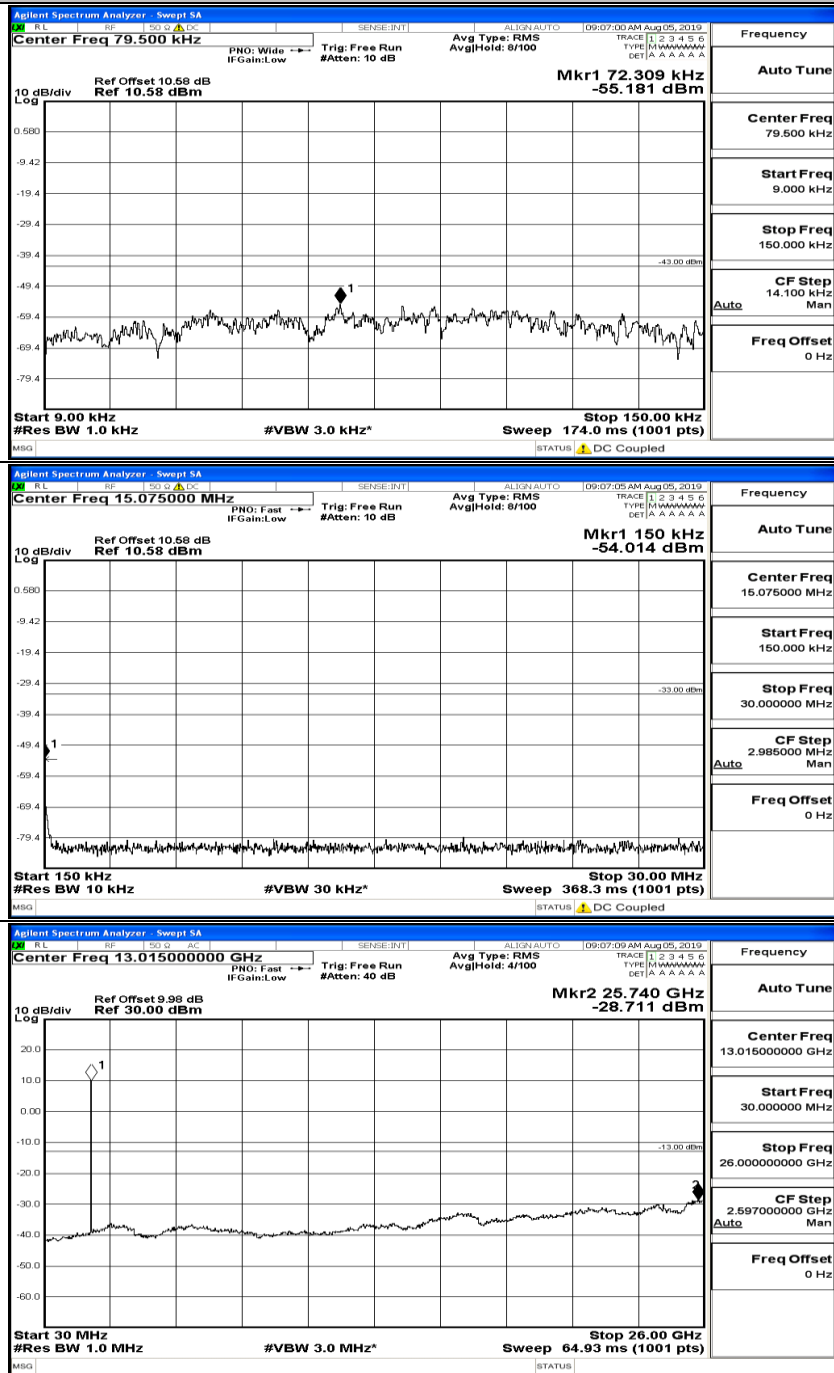
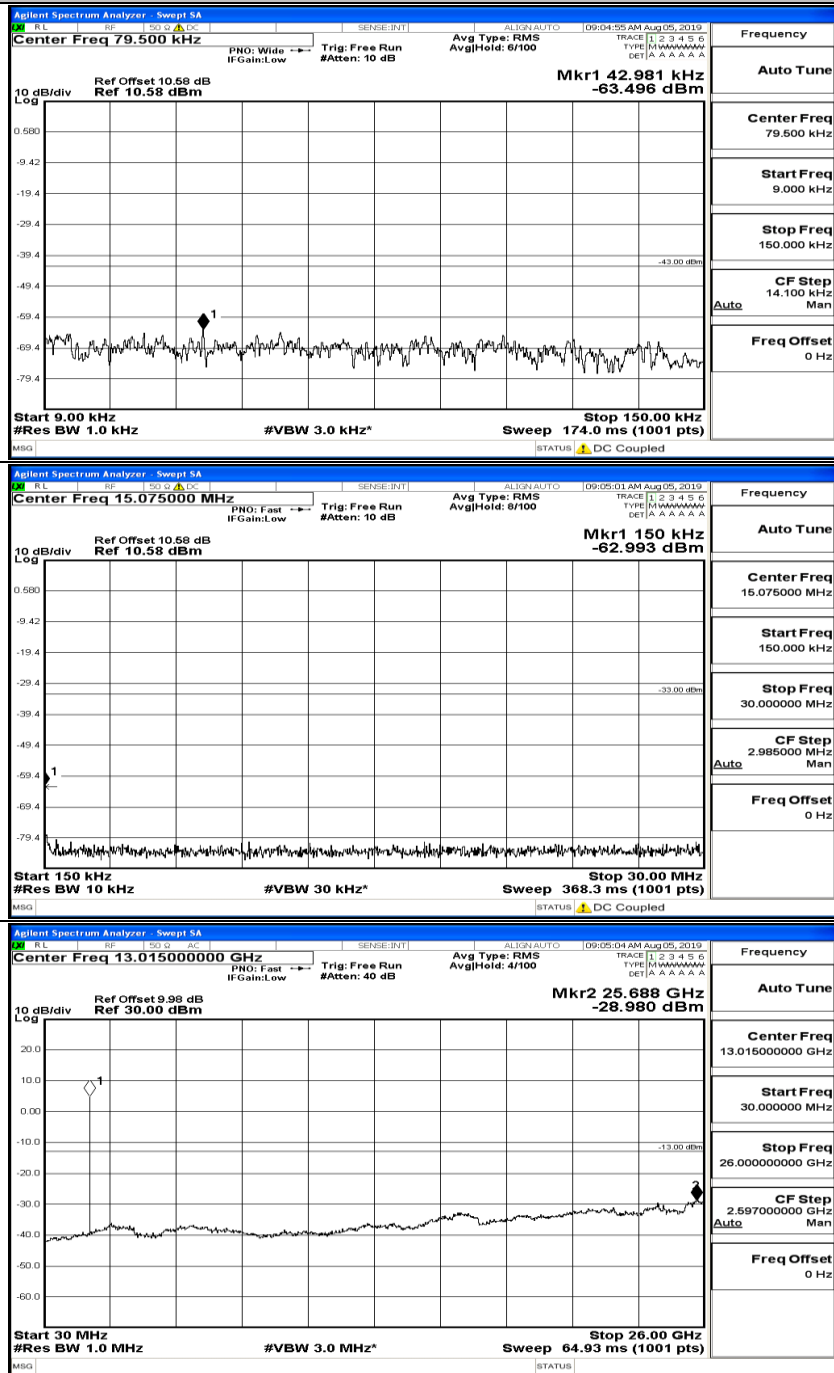


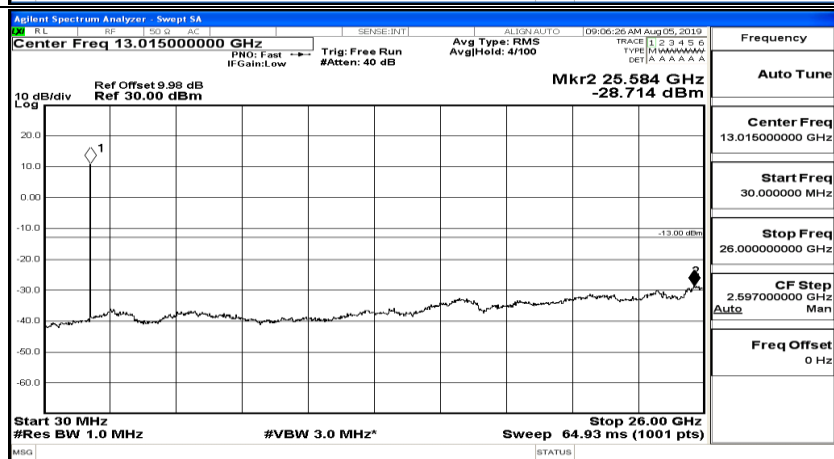
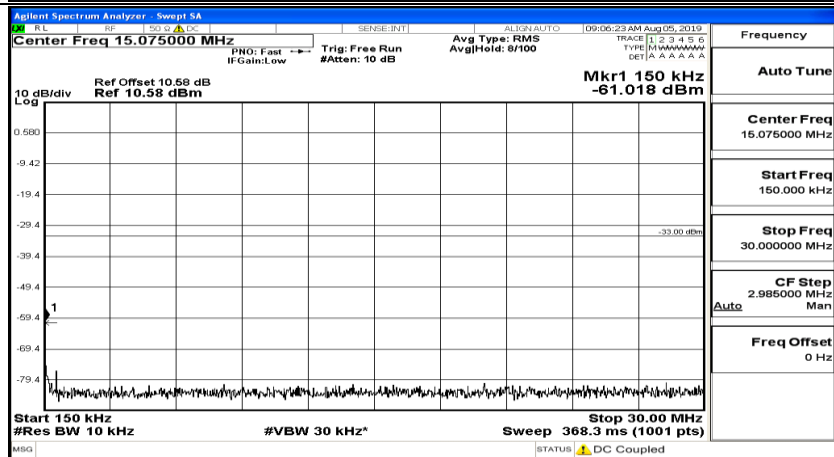
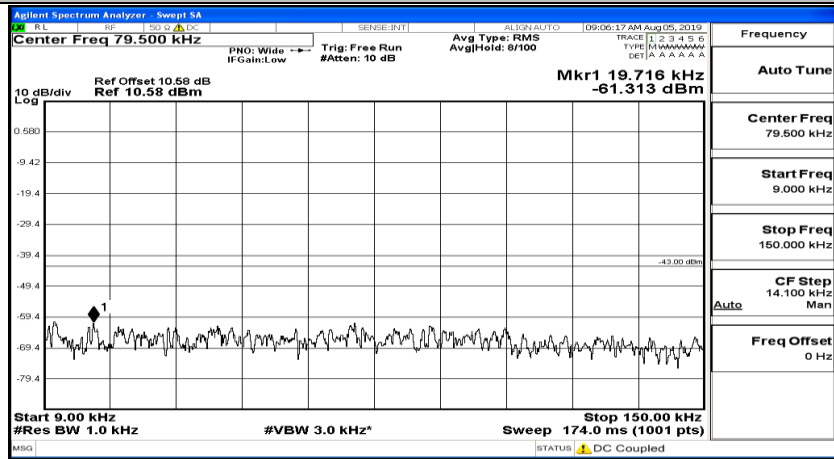
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



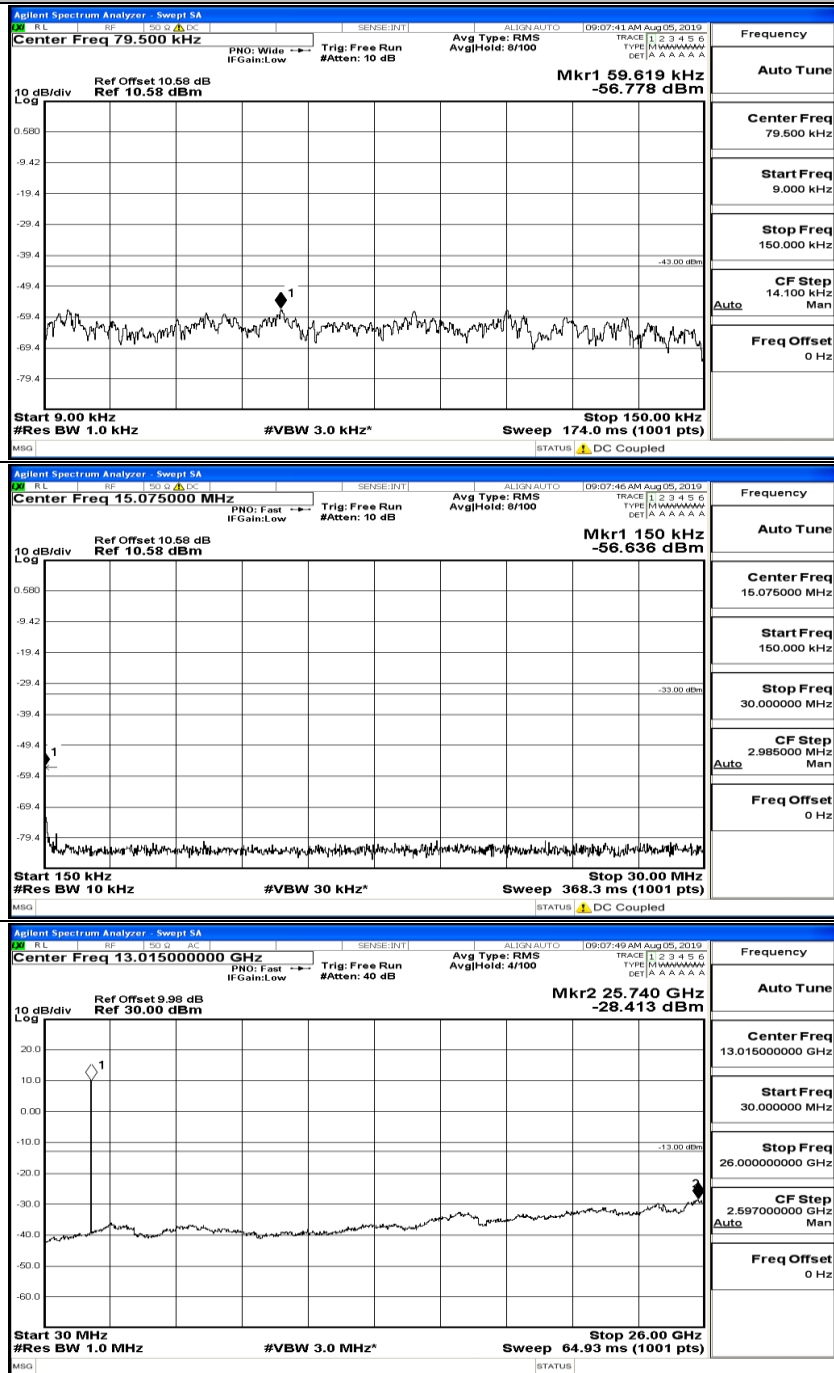
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω DC SENSE:INT ALLOC: AUTO 09:08:25 AM Aug 05, 2019

Center Freq 79.500 kHz PNO: Wide Trg: Free Run Avg Type: RMS Avg/Hold: 9/100 TRACE [1 2 3 4 5 6] TYPE [A W A W A W] DET [A A A A A A]

Ref Offset 10.58 dB Ref 10.58 dBm

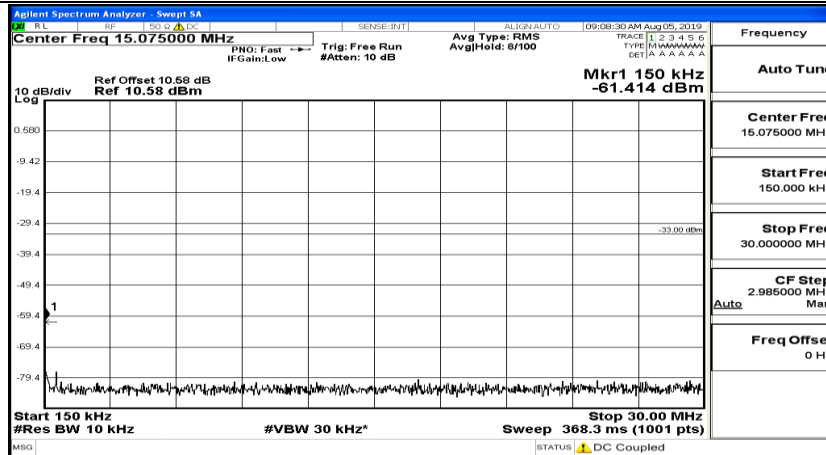
10 dB/div Log

Mkr1 87.819 kHz -61.236 dBm

Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz* Stop 150.00 kHz Sweep 174.0 ms (1001 pts)

MSG STATUS DC Coupled

Frequency Auto Tuning Center Freq 79.500 kHz Start Freq 9.000 kHz Stop Freq 150.00 kHz CF Stop 14.100 kHz Mar Auto Freq Offset 0 Hz



Agilent Spectrum Analyzer - Sweep SA

RL 500.0 A 100.0 dB

MODE:INT

ALCEN: AUTO

09:09:17 AM Aug 05, 2019

Center Freq 79.500 kHz

PHO: Wide → IF Gain: Low

Trig: Free Run #Atten: 10 dB

Avg Type: RMS AvgHold: 8/100

TRACE 1 2 3 4 5 6

TYPE: FWHM

DETA: A A A A A A

Frequency

Auto Tune

Center Freq 79.500 kHz

Start Freq 9.000 kHz

Stop Freq 150.000 kHz

CF Step 14.100 kHz

Auto Mar

Freq Offset 0 Hz

10 dB/Div

Ref Offset 10.58 dB

Ref 10.58 dBm

Mkr1 90.216 kHz -61.411 dBm

Log

0.580

-9.42

-19.4

-29.4

-39.4

-49.4

-59.4

-69.4

-79.4

-45.00 dBm

Start 9.00 kHz

#Res BW 1.0 kHz

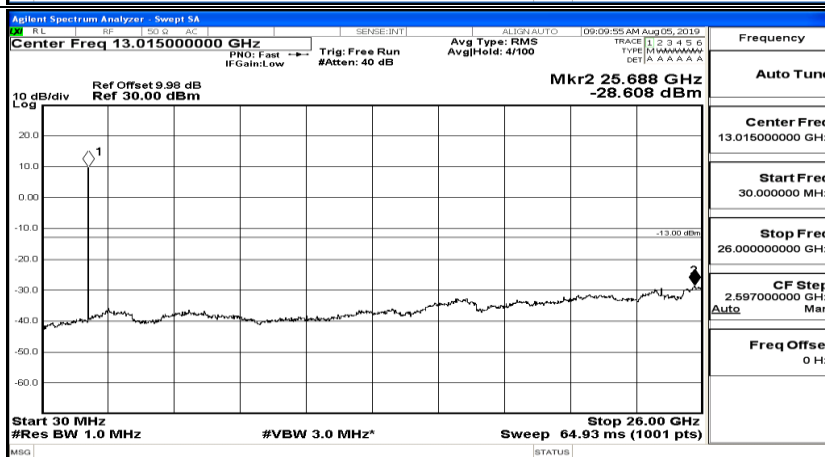
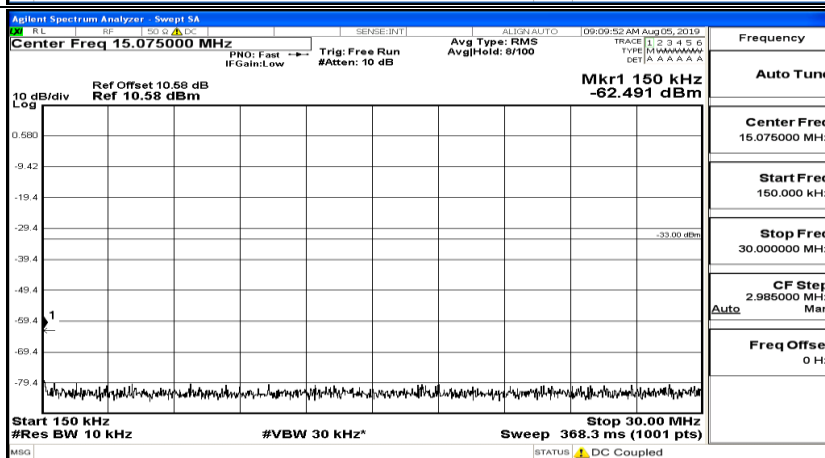
#VBW 3.0 kHz*

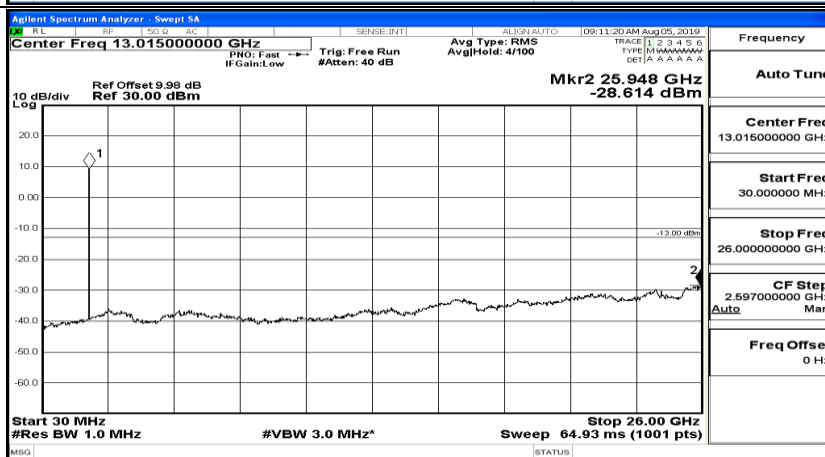
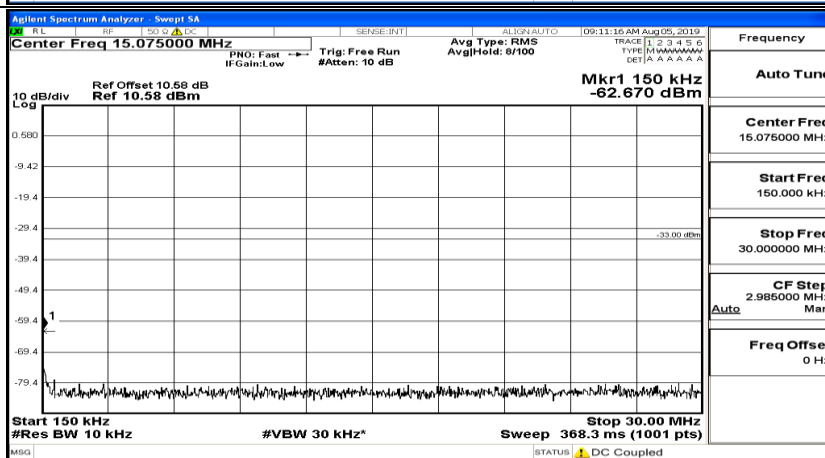
Sweep 174.0 ms (1001 pts)

Stop 150.00 kHz

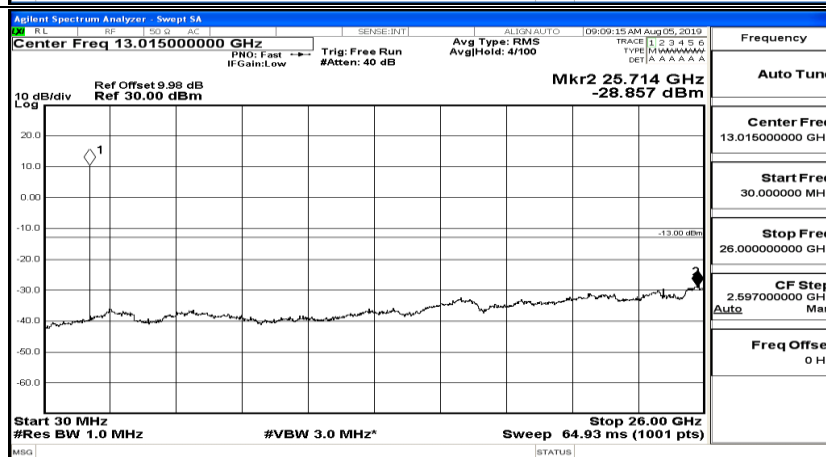
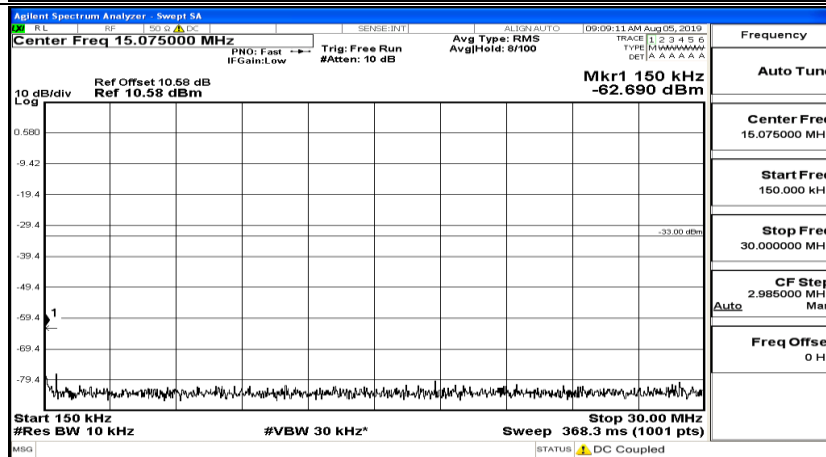
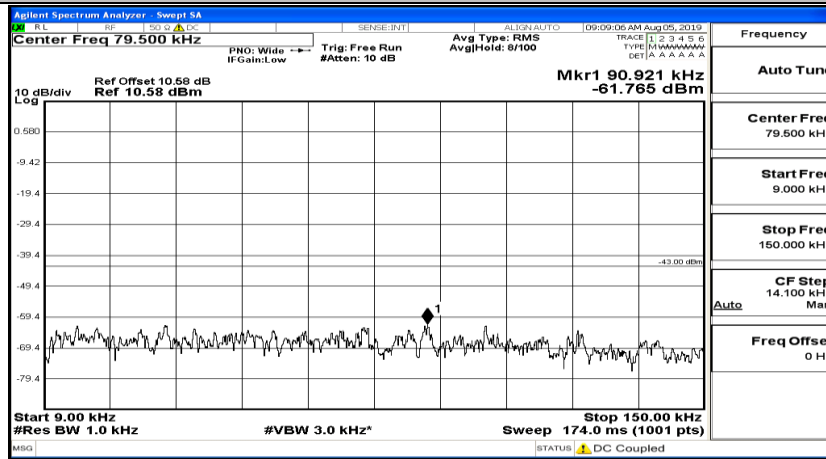
MSO

STATUS DC Coupled

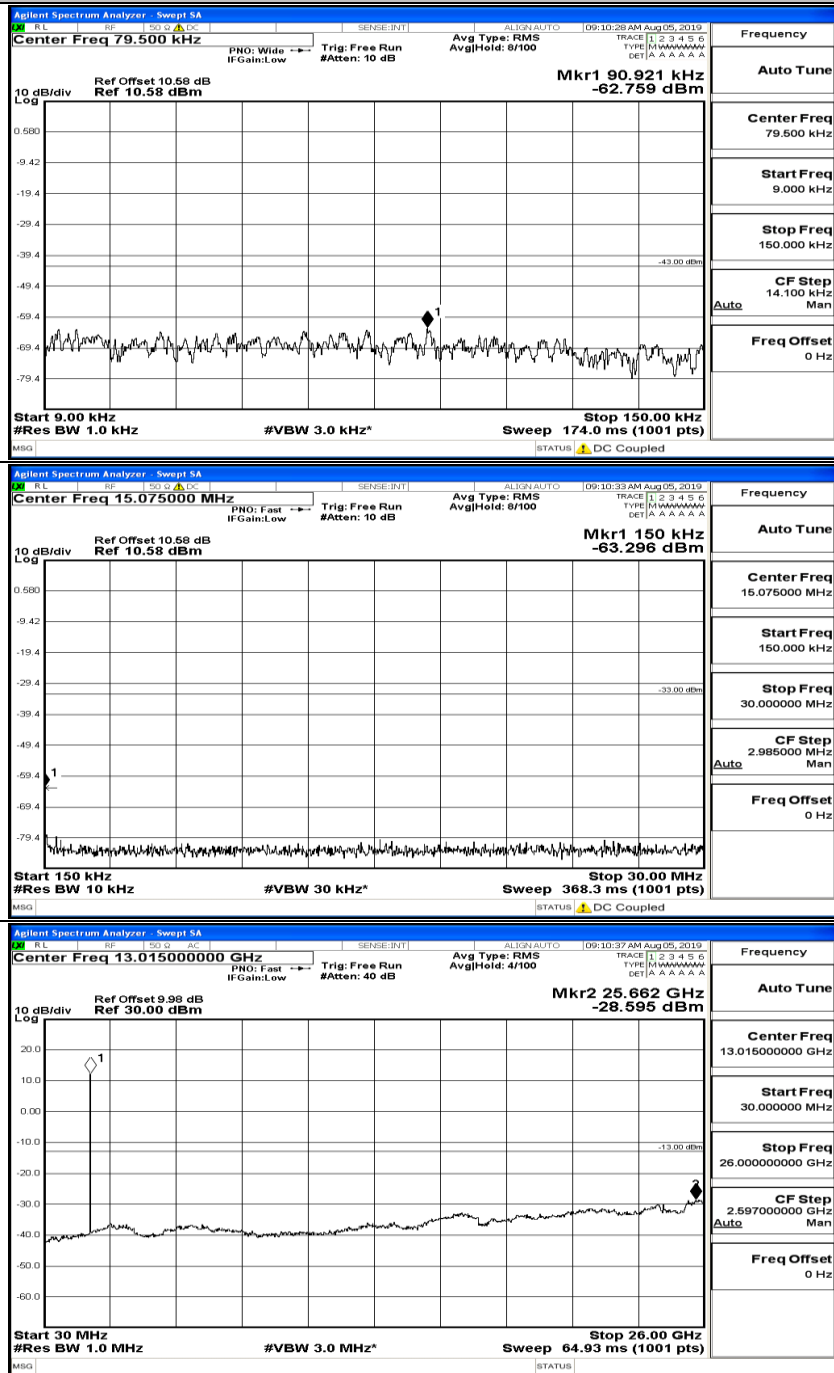


[illegible]

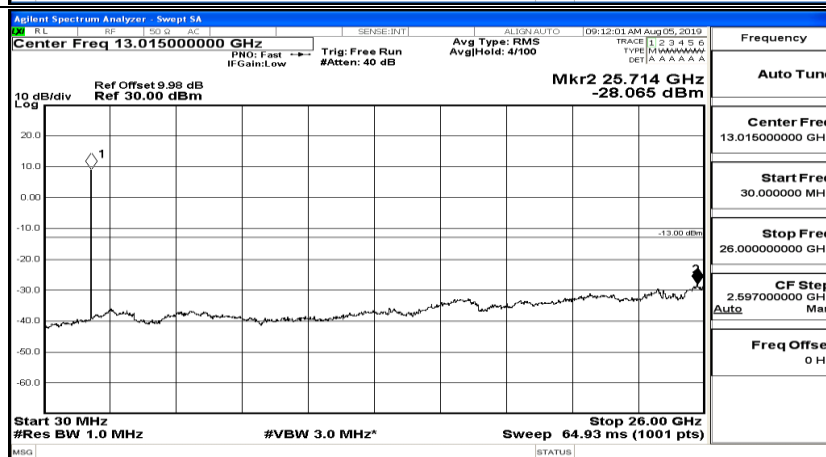
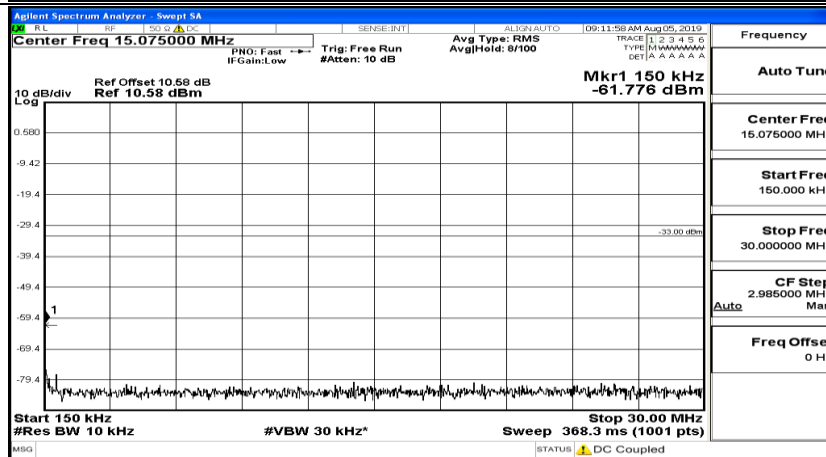
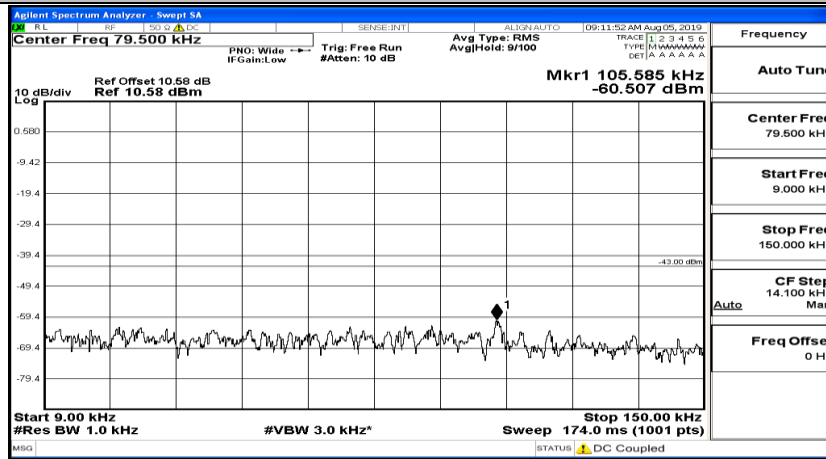
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



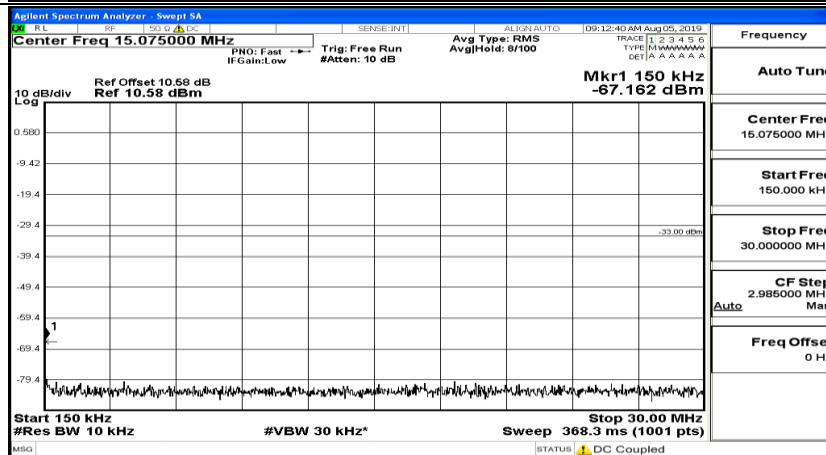
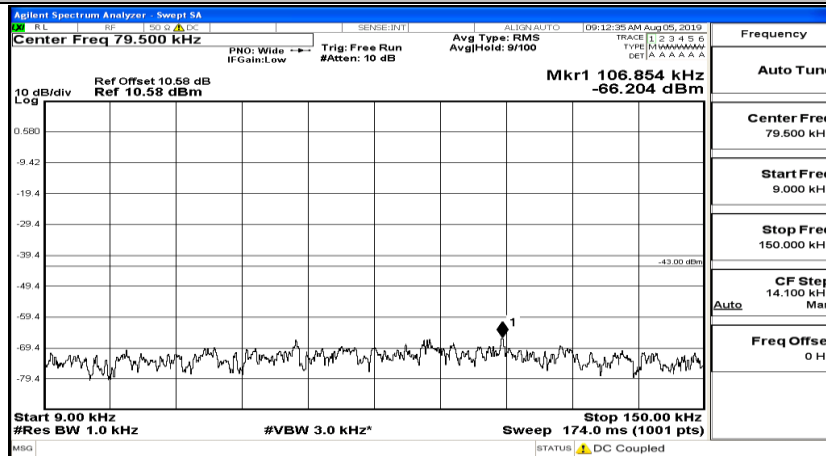
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



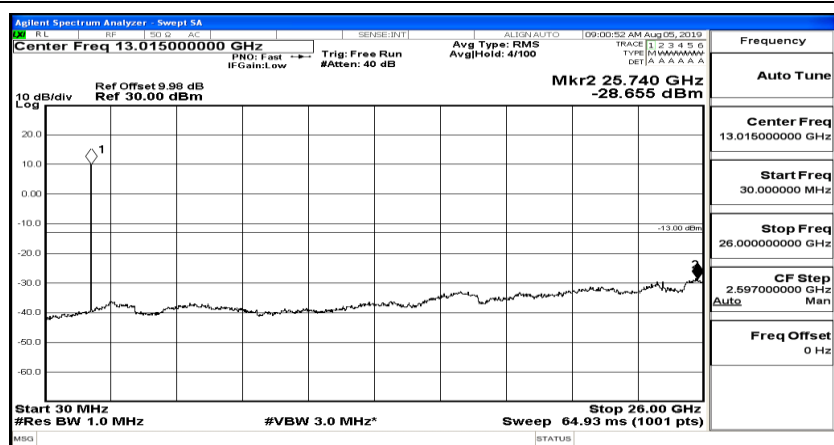
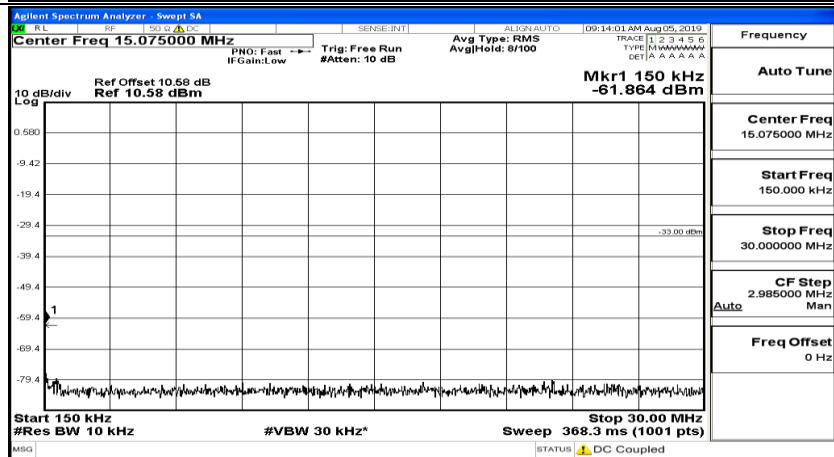
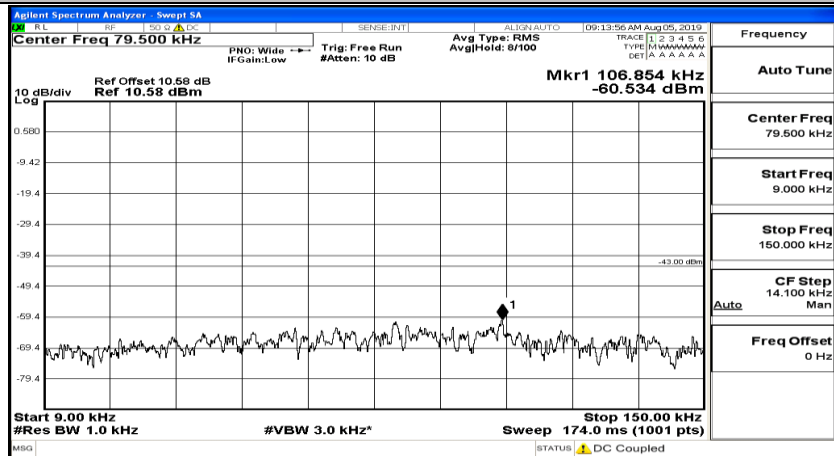
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



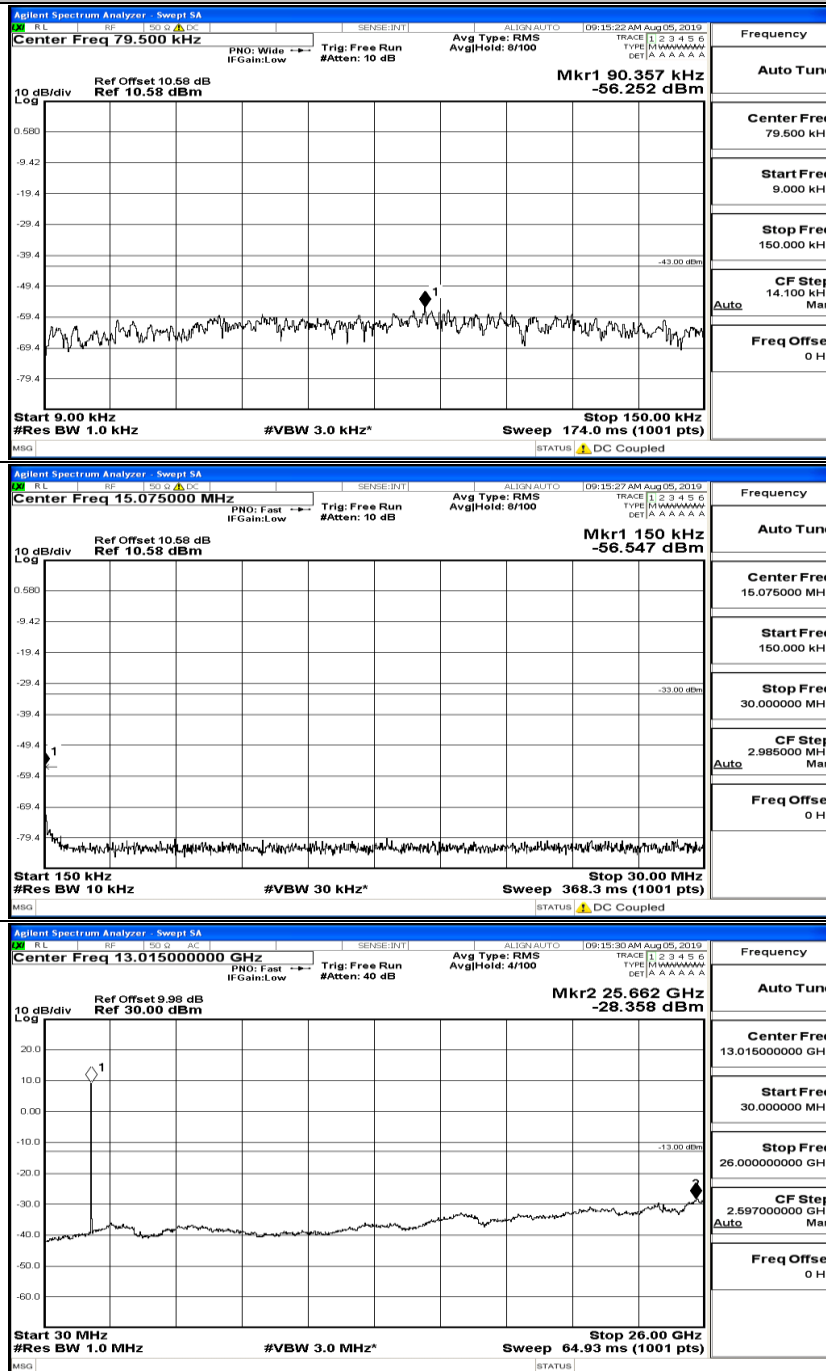
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



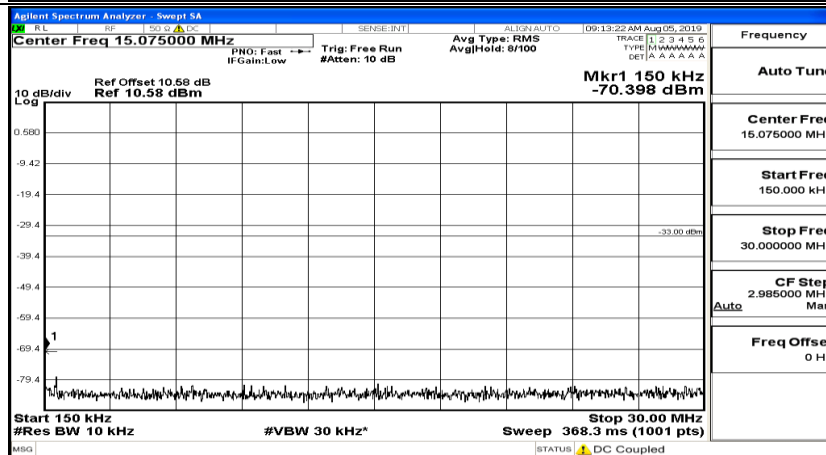
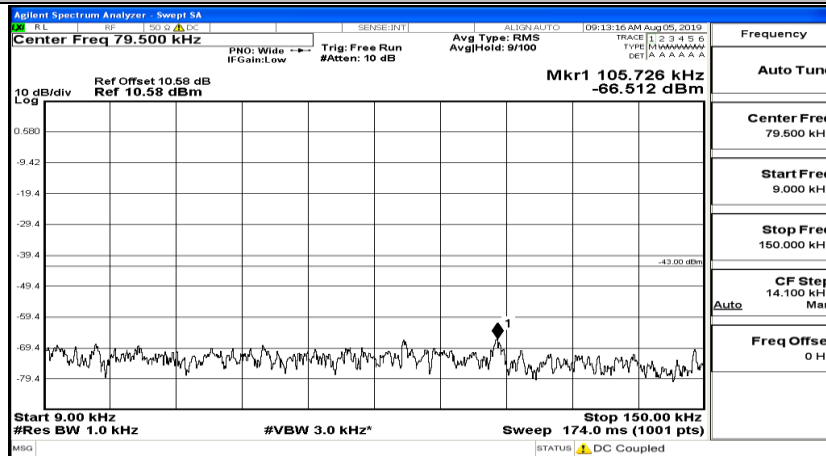
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



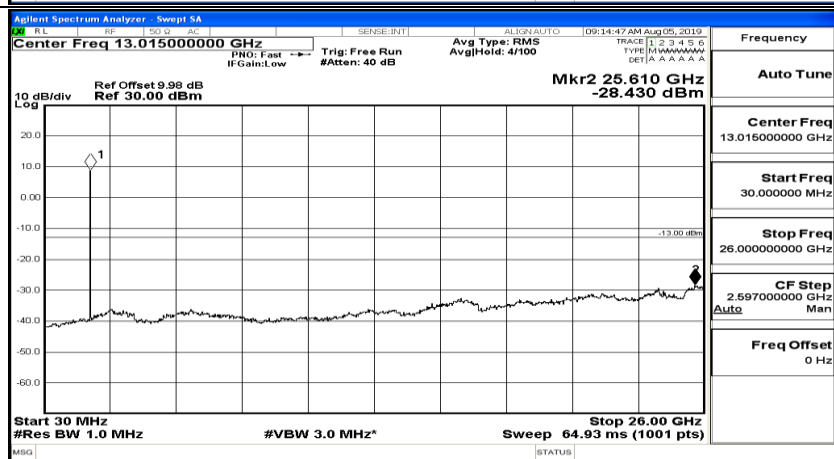
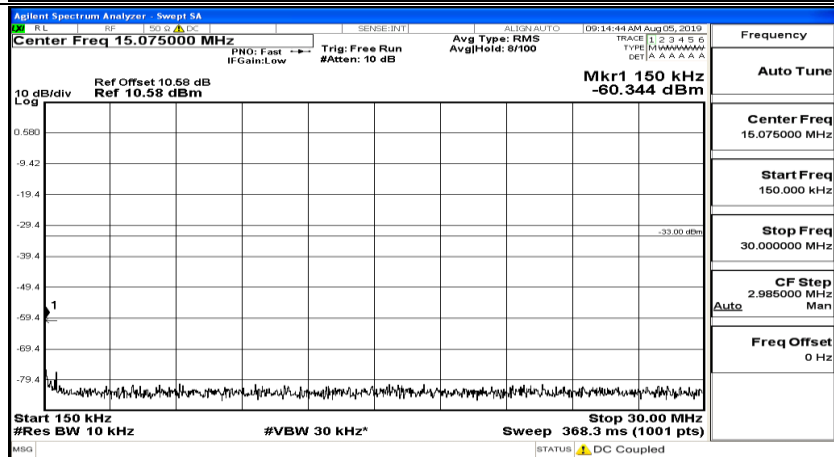
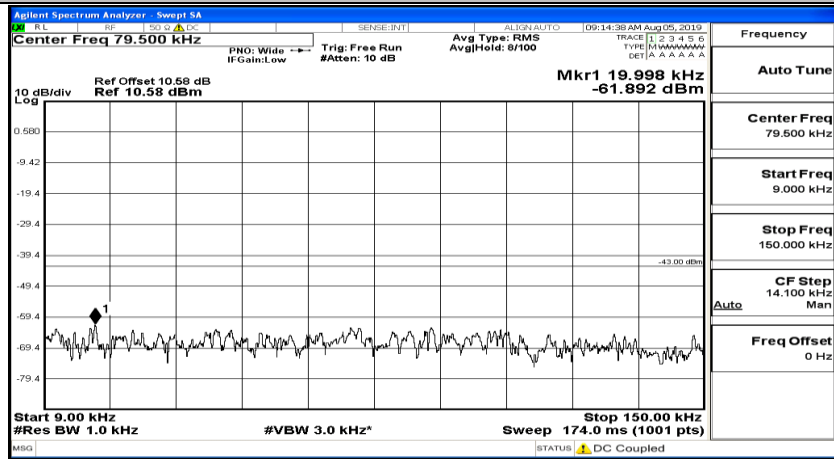
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



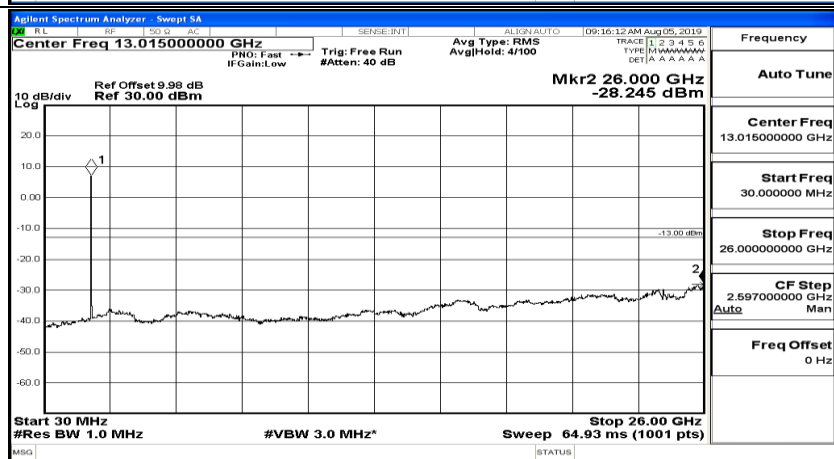
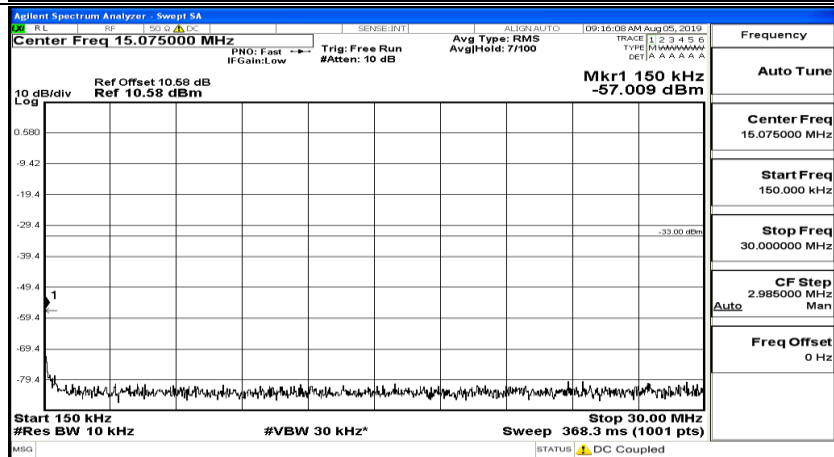
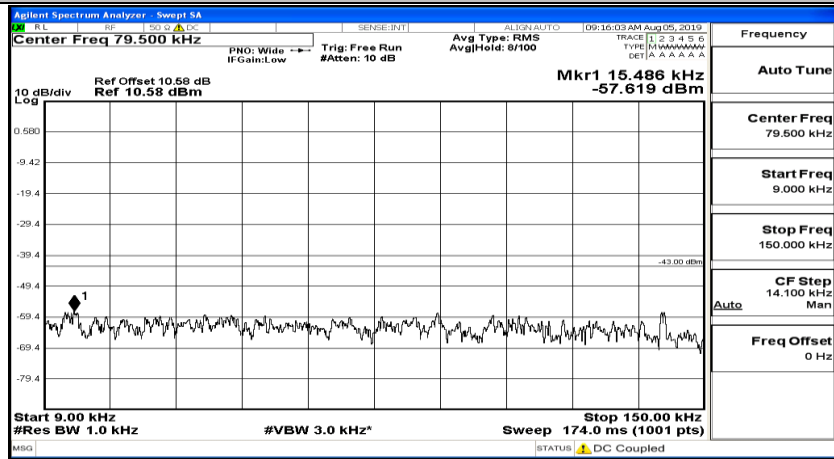
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



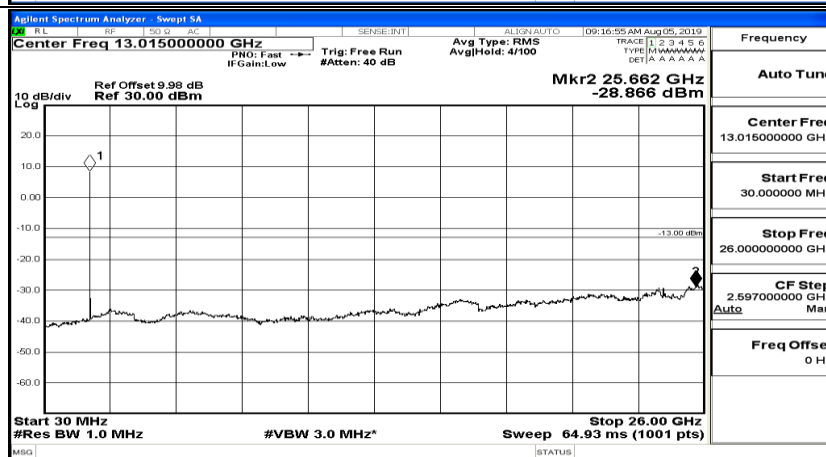
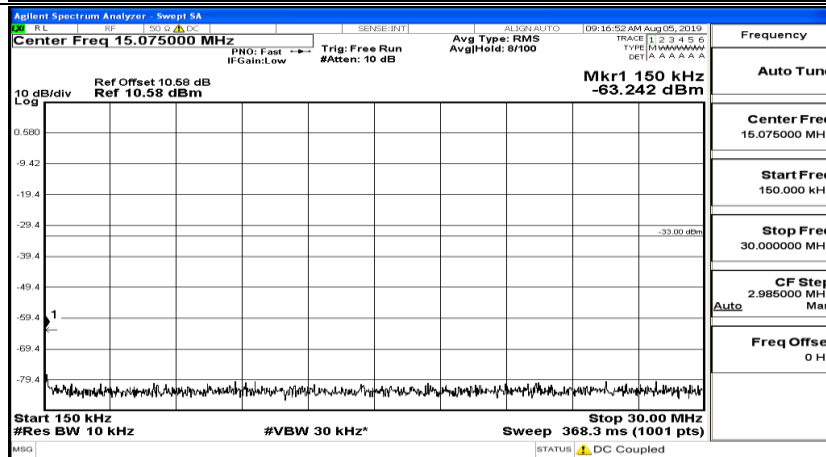
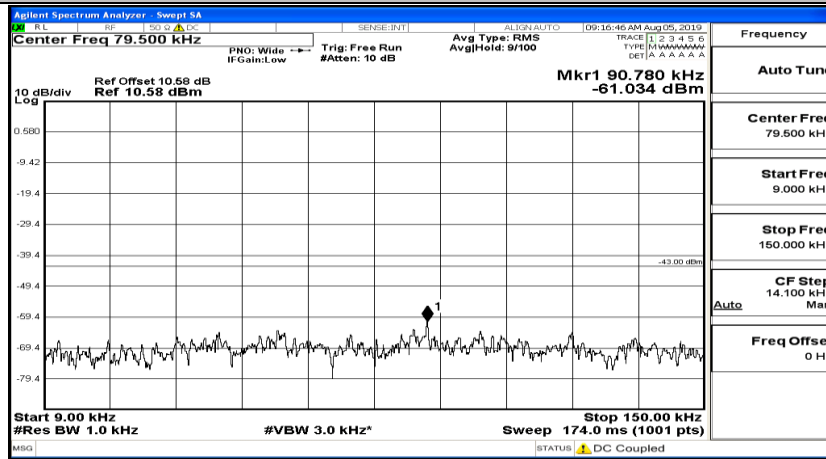
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



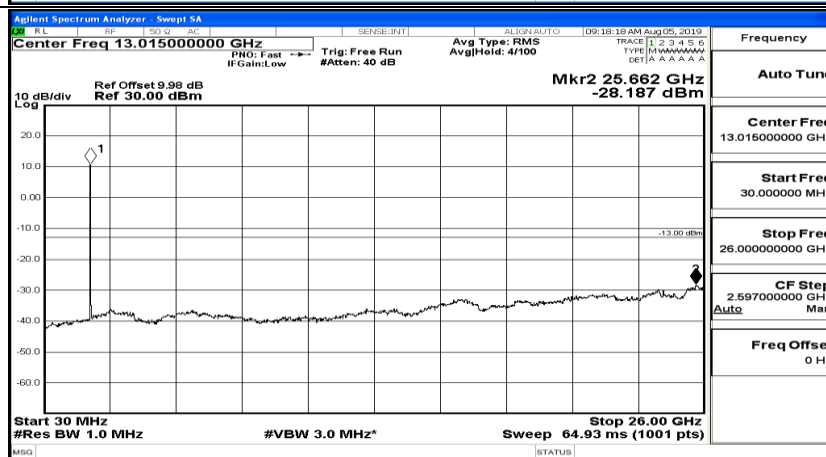
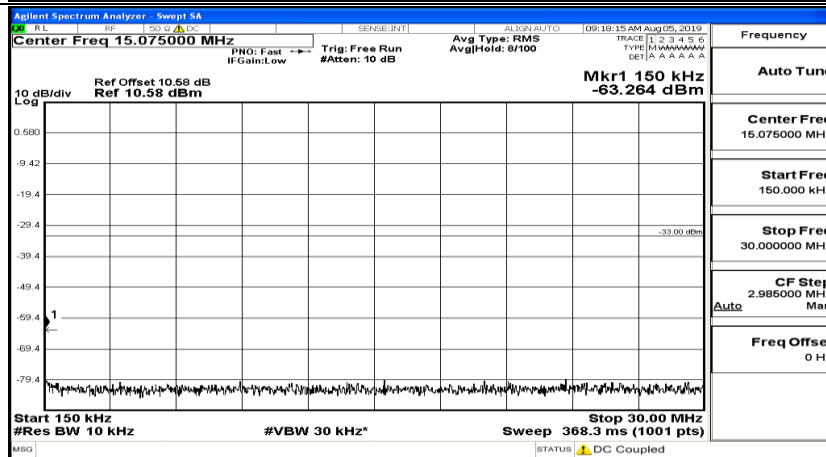
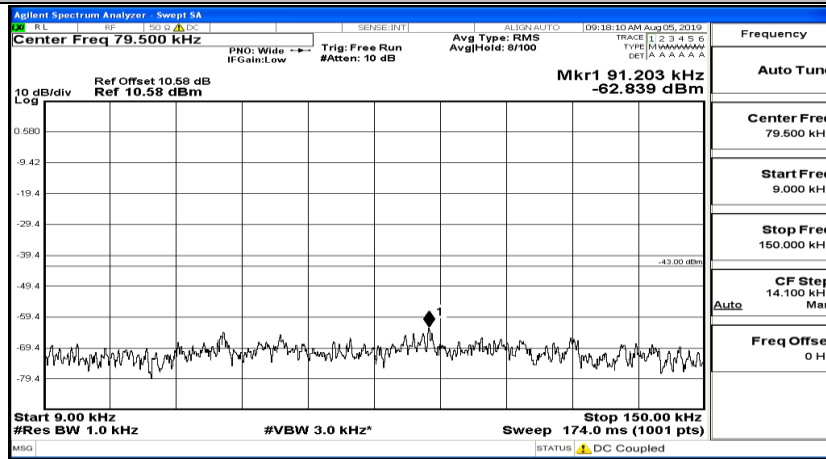
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



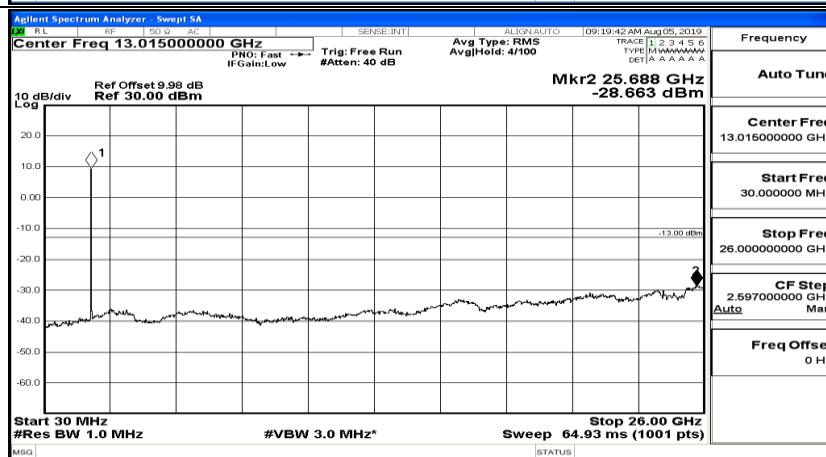
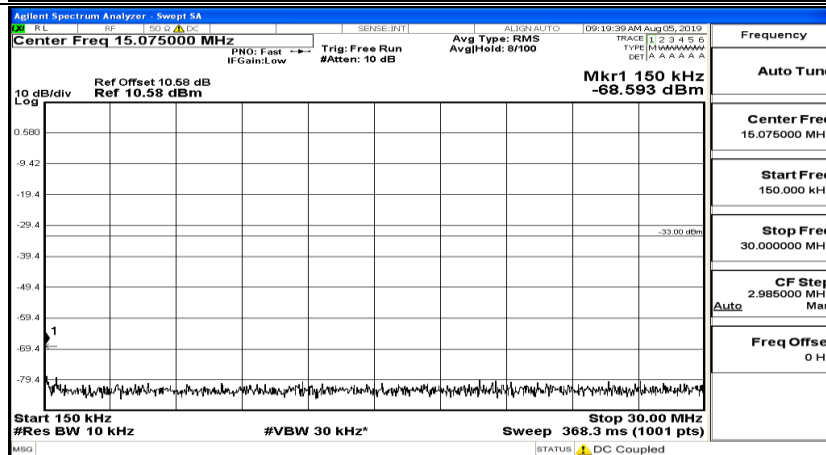
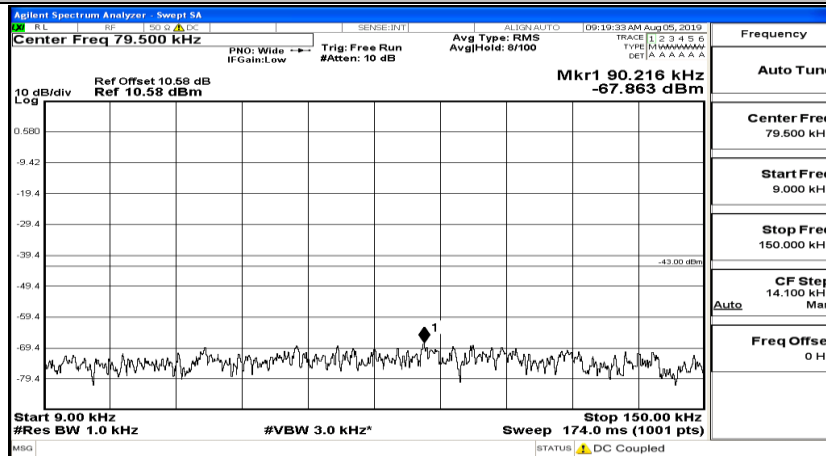
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



Agilent Spectrum Analyzer - Sweep SA

FIL 0000 A.DC SOURCE:INT ALGN:AUTO 109:17:28 AM Aug 06, 2019

Center Freq 79.500 kHz PHO: Wide → Trig: Free Run Avg Type: RMS
IF Gain: Low #Atten: 10 dB AvgHold: 8/100

TRACE [1 2 3 4 5 6]
TYPE [NORMAL]
DETA [A A A A A]

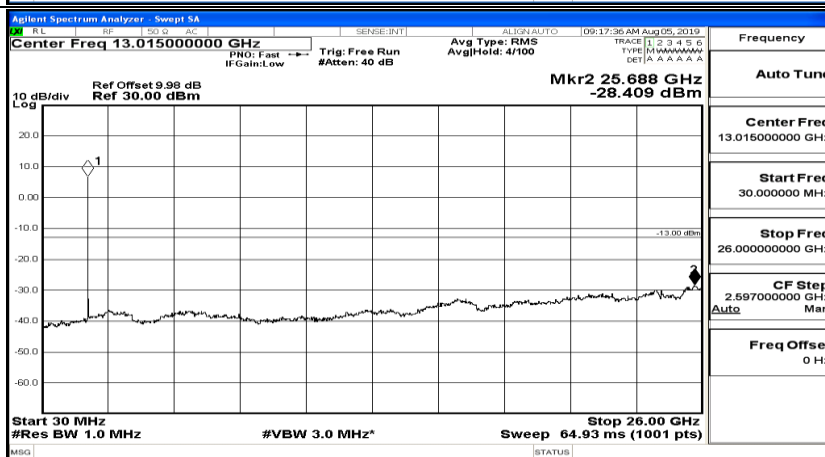
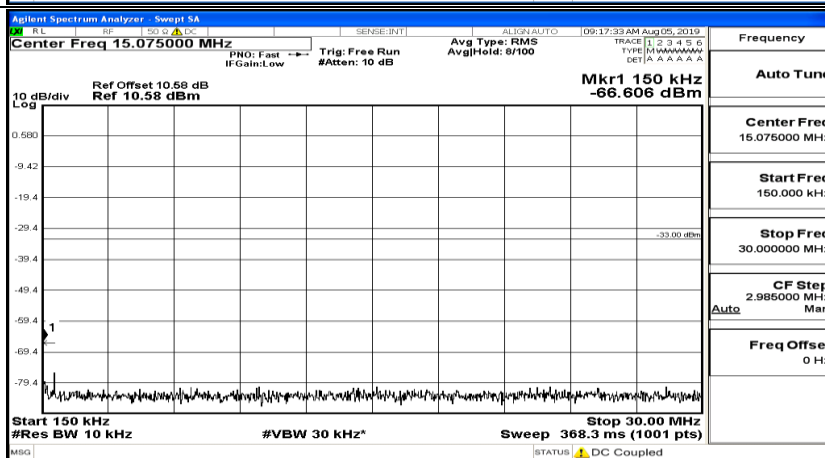
Mkr1 16.473 kHz
-65.072 dBm

10 dB/div Ref Offset 10.58 dB
Log Ref 10.58 dBm

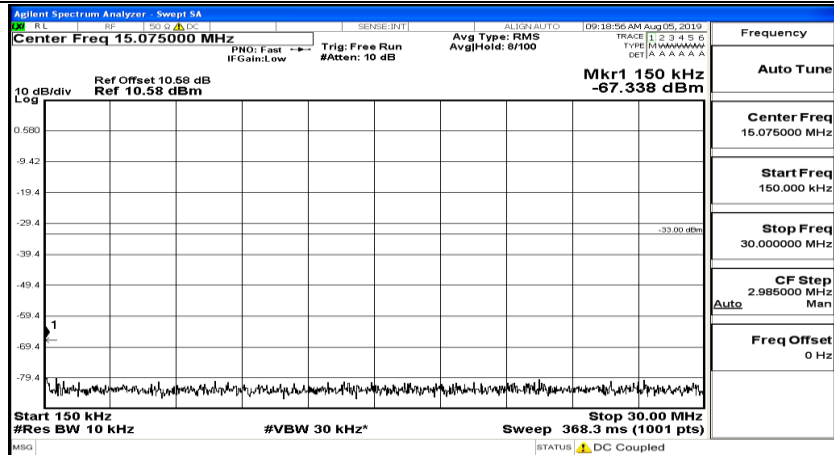
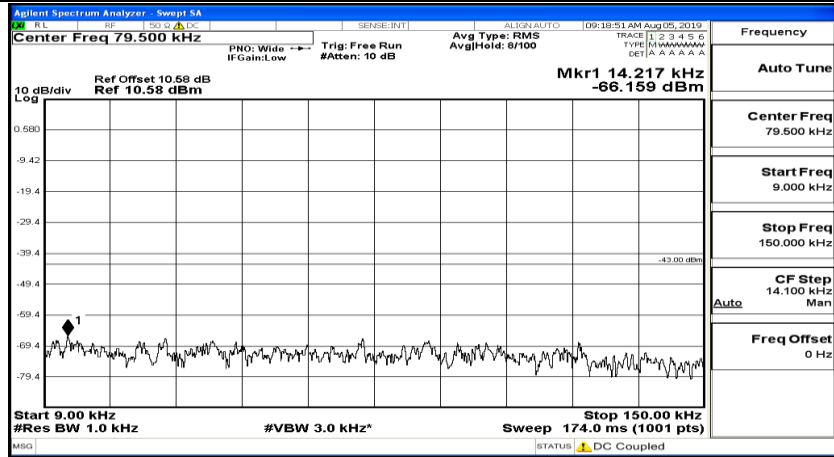
Start 9.00 kHz Stop 150.00 kHz
#Res BW 1.0 kHz #VBW 3.0 kHz* Sweep 174.0 ms (1001 pts)

MSB STATUS DC Coupled

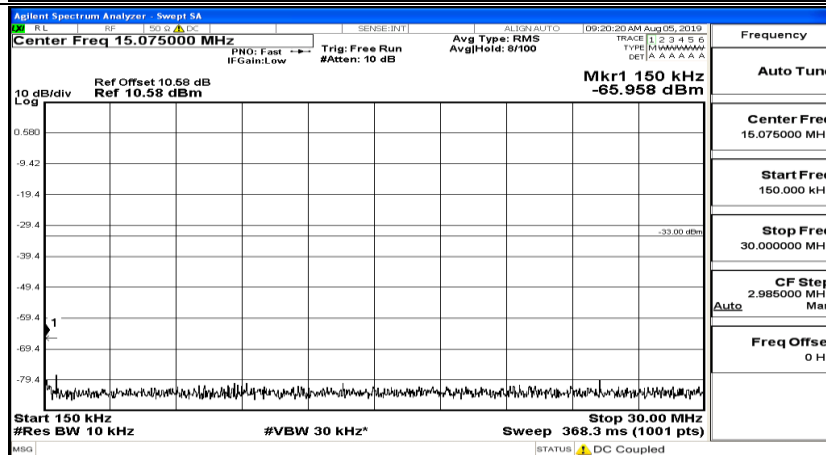
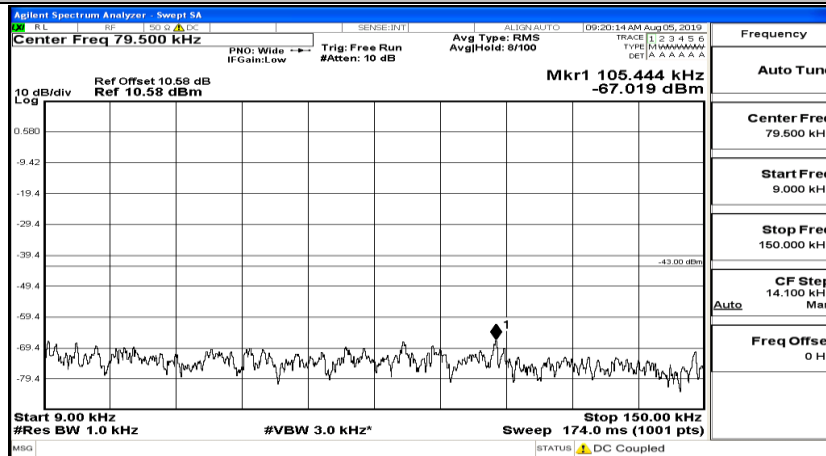
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
[Auto](#) Mar
Freq Offset
0 Hz



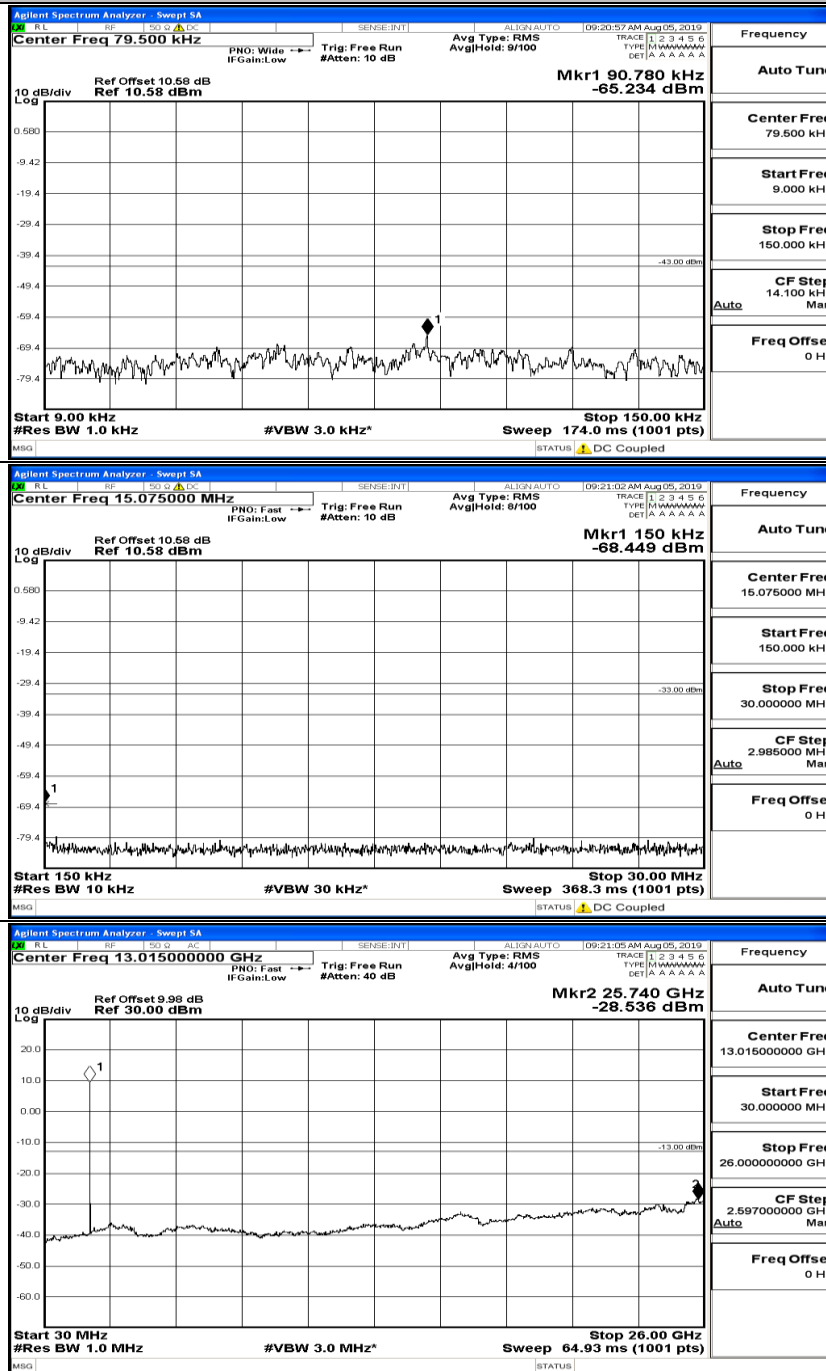
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



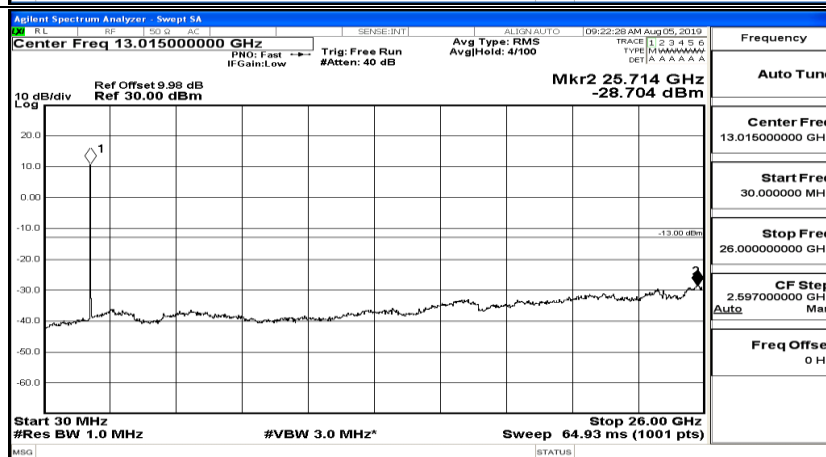
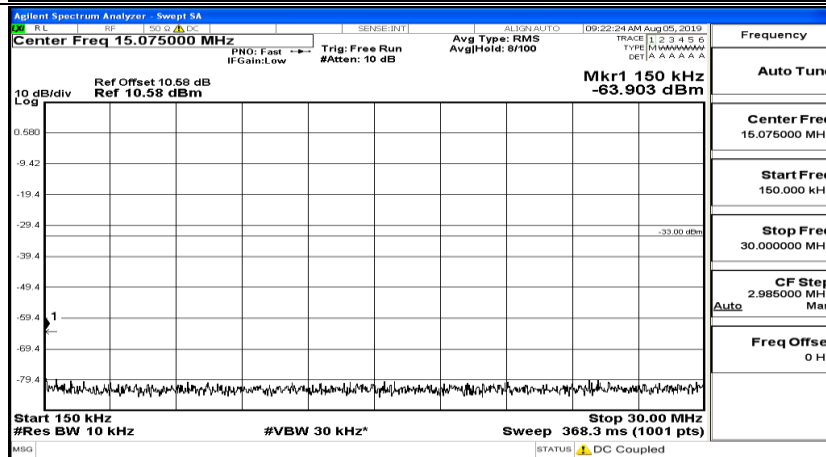
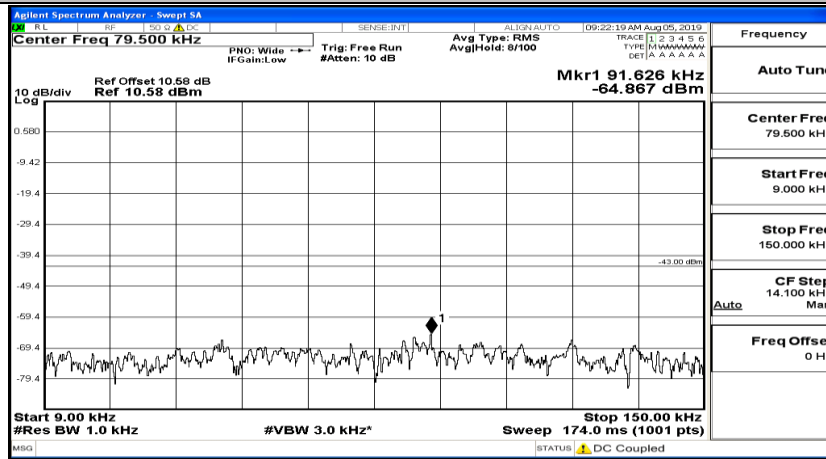
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



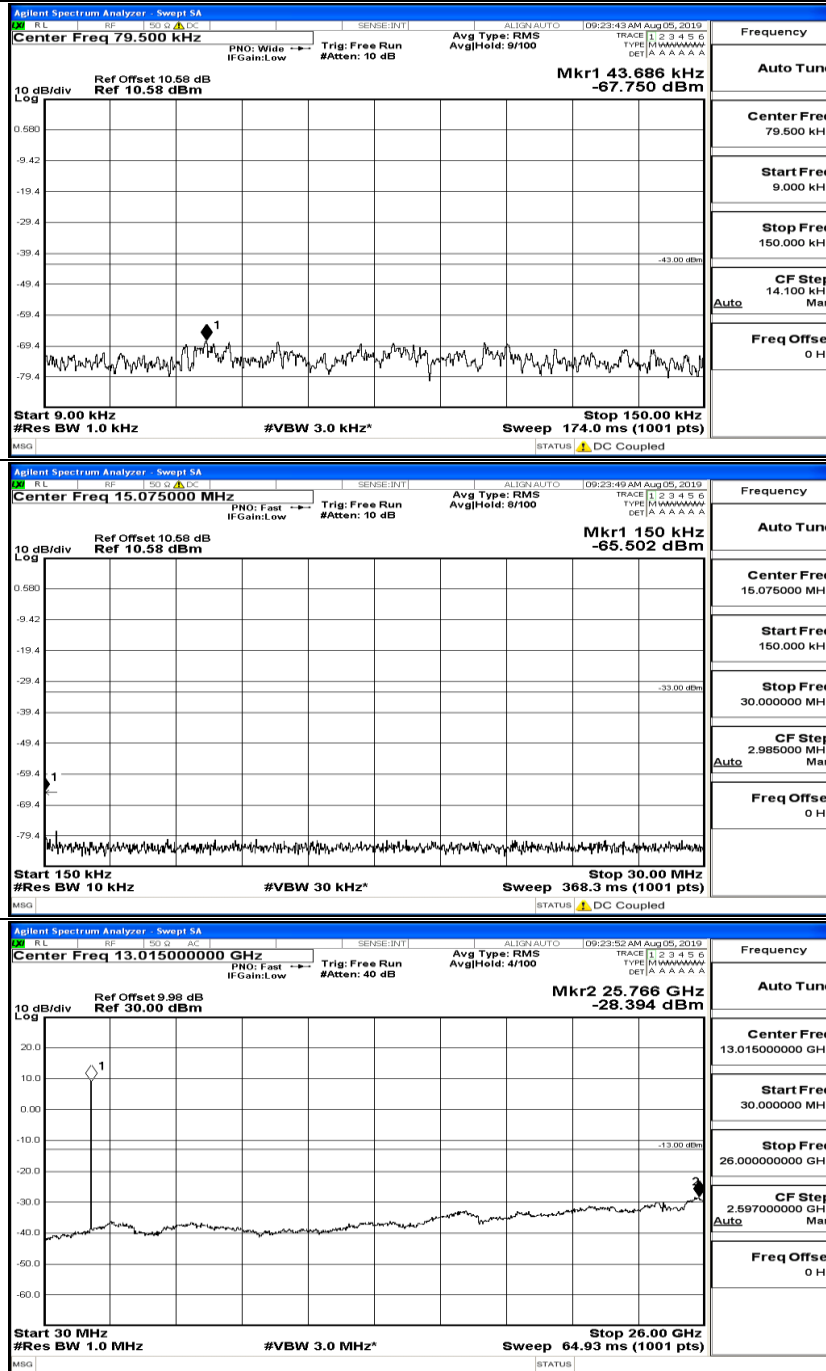
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



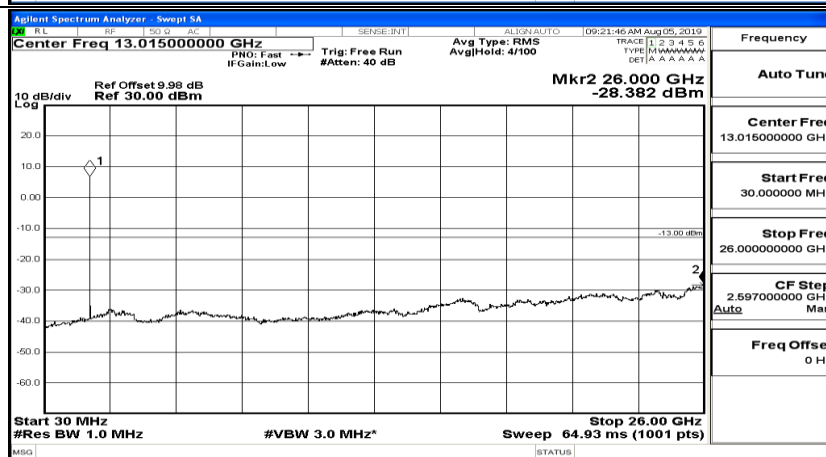
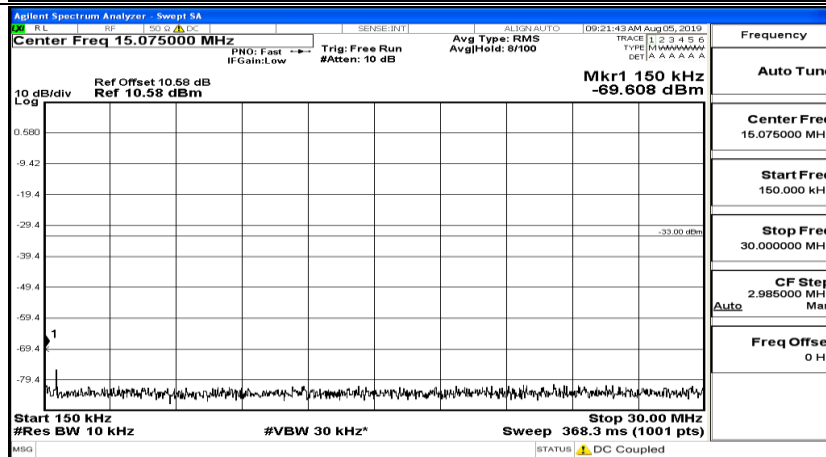
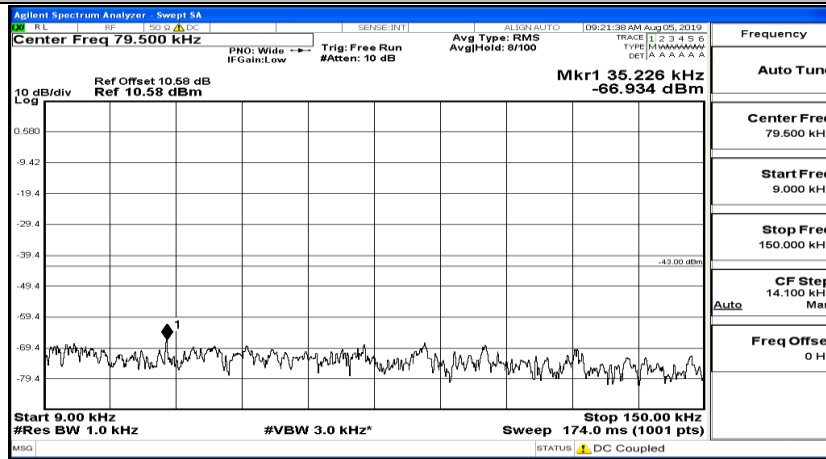
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



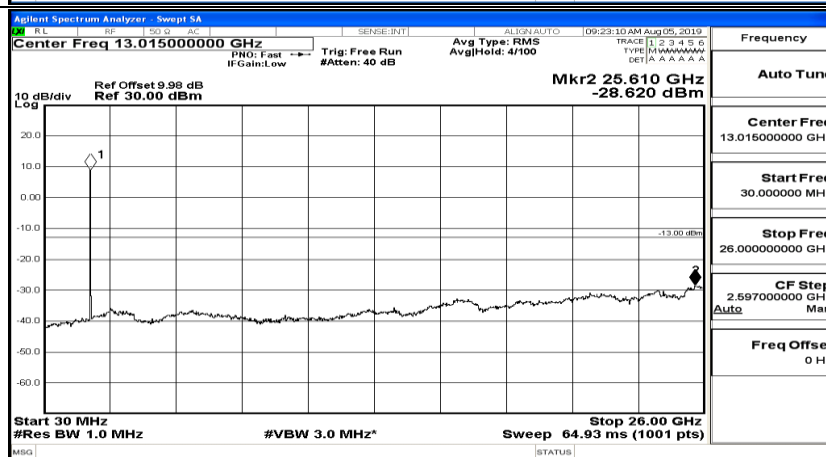
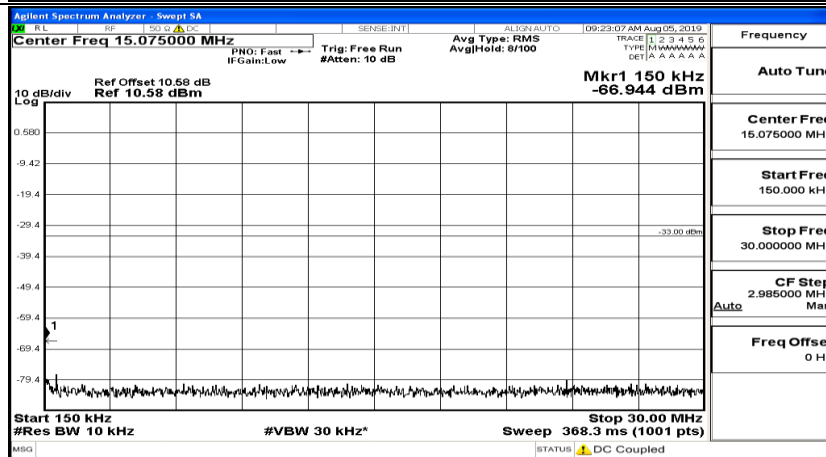
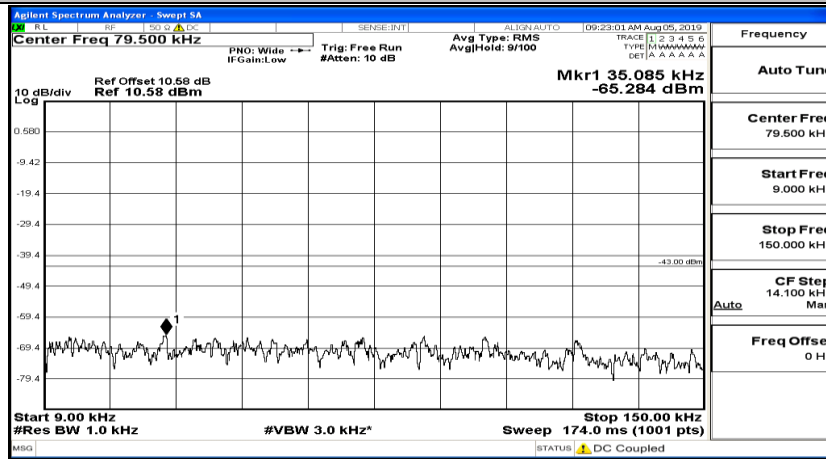
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



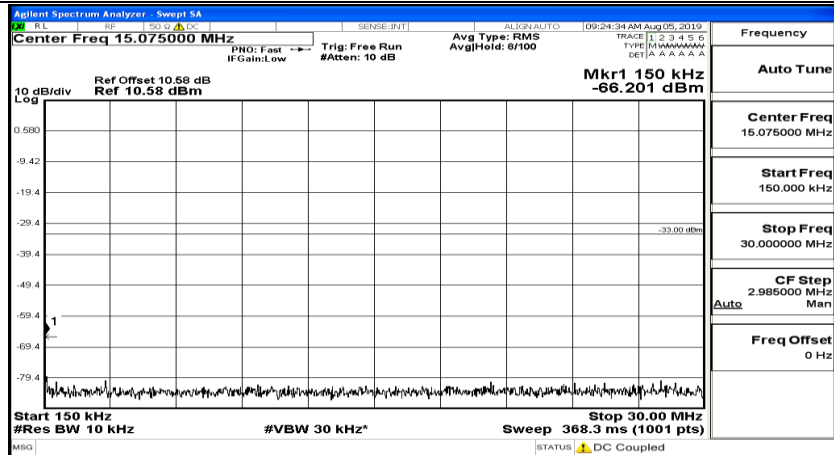
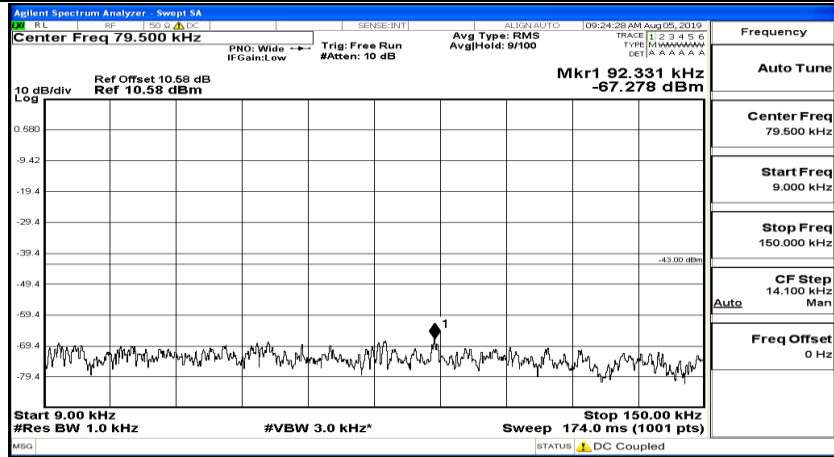
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



CSE Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



CSE Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



Agilent Spectrum Analyzer - Sweep SA

FIL 000 A Dc SERSE:INT ALGN:AUTO 09-29:10 AM Aug 06, 2019

Center Freq 79.500 kHz PRN: Wide → Trig: Free Run Avg Type: RMS AvgHold: 8/100
IF Gain: Low #Atten: 10 dB TYPE: I Q U W X Y Z DET: A A A A A A

Mkr1 87.819 kHz
-65.591 dBm

10 dB/div Ref Offset 10.58 dB Log Ref 10.58 dBm

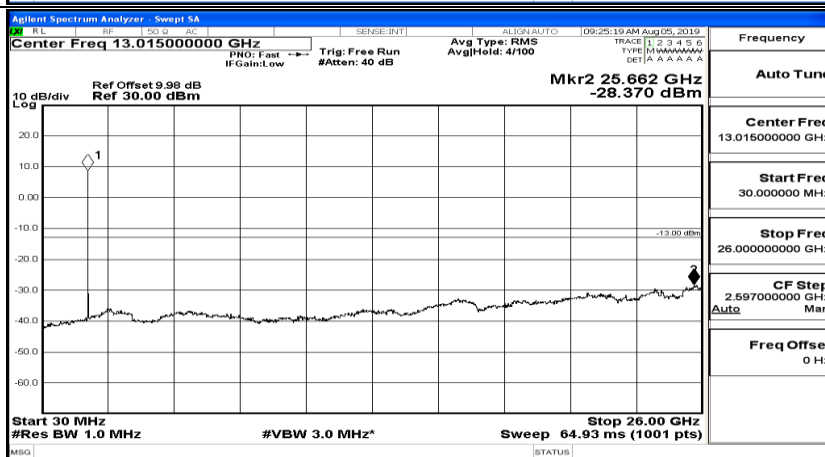
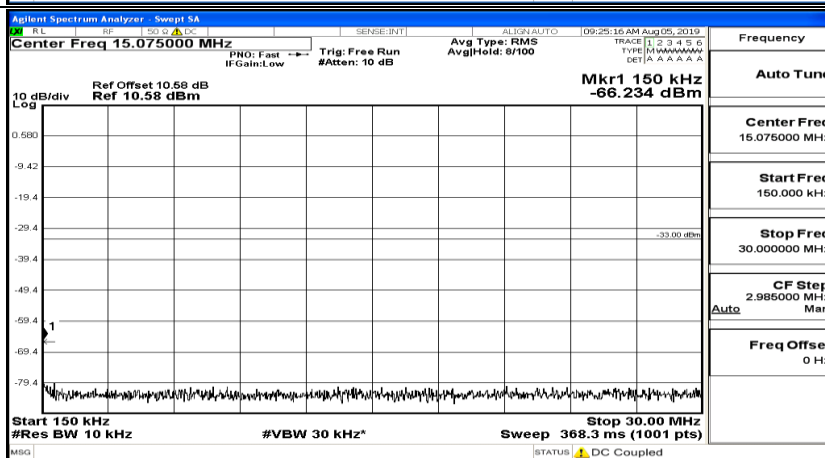
0.580
-9.42
-19.4
-29.4
-39.4
-49.4
-59.4
-69.4
-79.4

-45.00 dBm

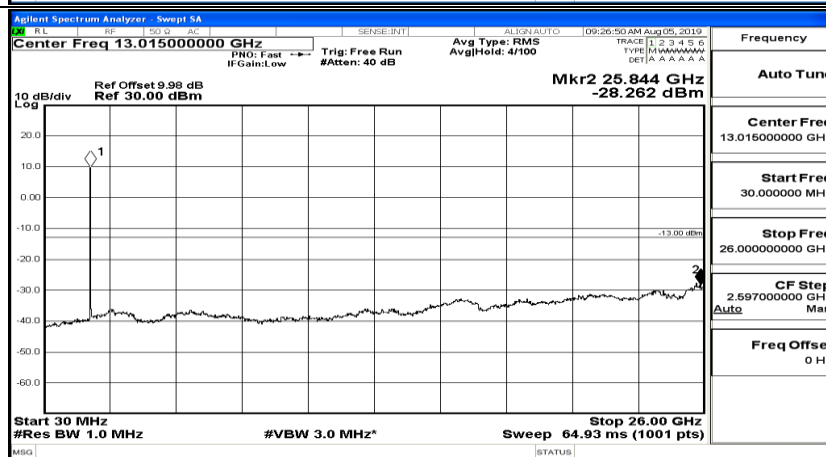
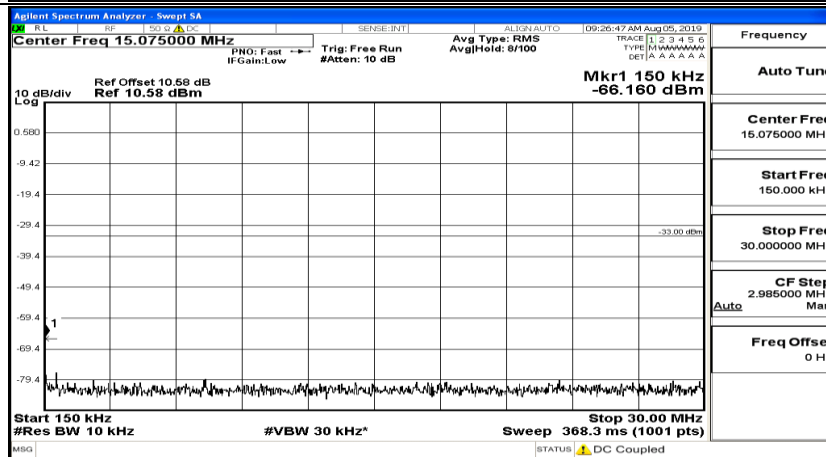
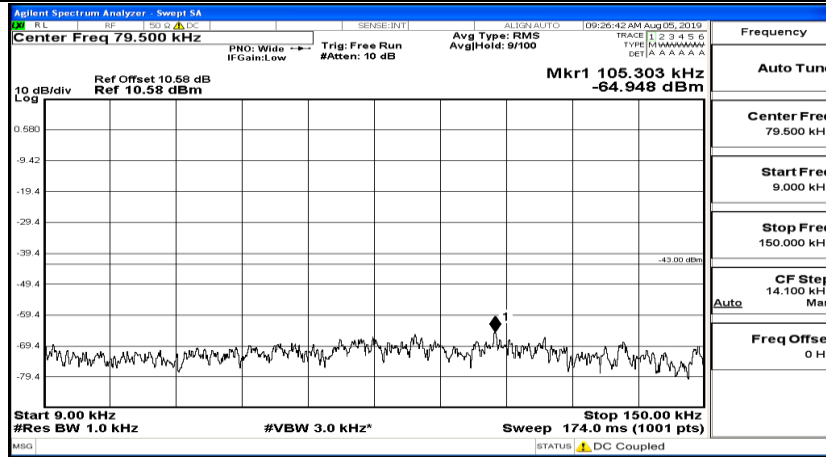
Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz* Stop 150.00 kHz Sweep 174.0 ms (1001 pts)

MSG STATUS DC Coupled

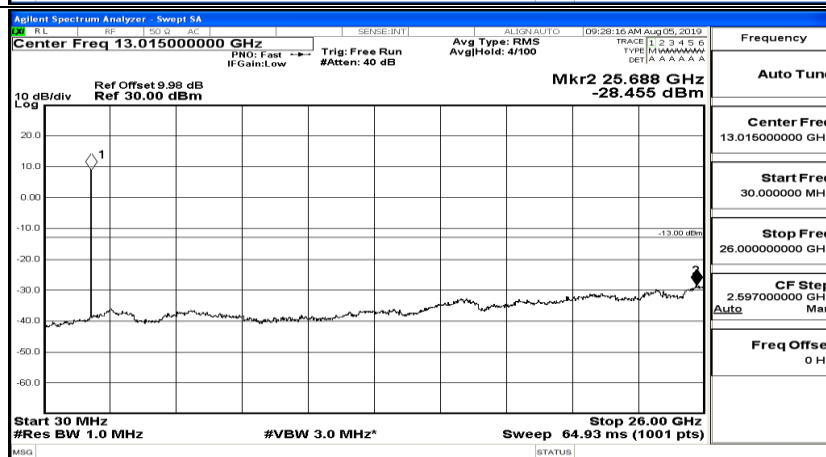
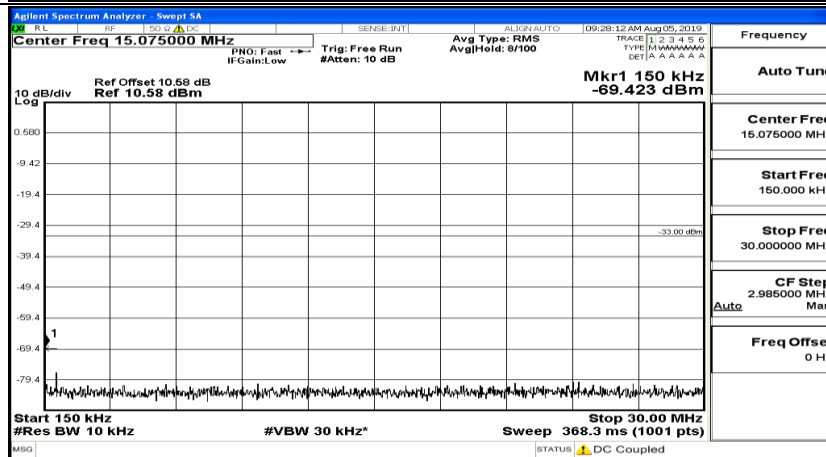
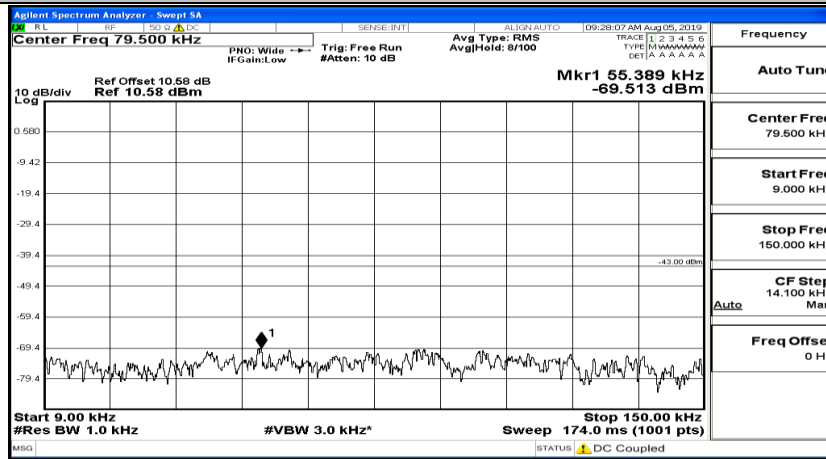
Frequency Auto Tune Center Freq 79.500 kHz Start Freq 9.000 kHz Stop Freq 150.000 kHz CF Step 14.100 kHz Mar Auto Freq Offset 0 Hz



CSE Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



CSE Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



Agilent Spectrum Analyzer - Sweep SA

Center Freq 79.500 kHz

Ref Offset 10.58 dB
Ref 10.58 dBm

Start 9.00 kHz
#Res BW 1.0 kHz

#VBW 3.0 kHz*

Sweep 150.00 kHz
174.0 ms (1001 pts)

Mkr1 91.203 kHz
-66.697 dBm

Frequency

Auto Tune

Center Freq 79.500 kHz

Start Freq 9.000 kHz

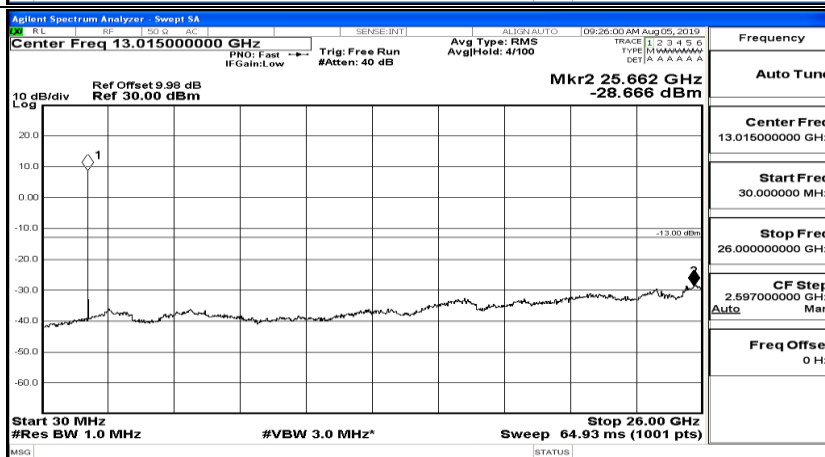
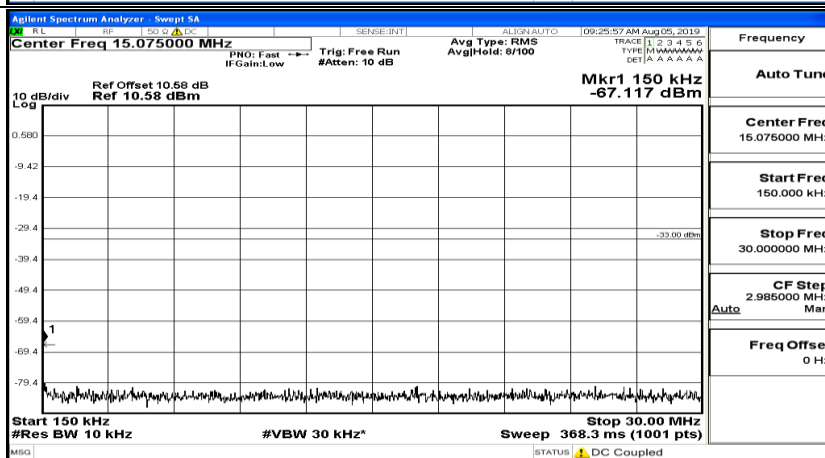
Stop Freq 150.000 kHz

CF Step 14.100 kHz

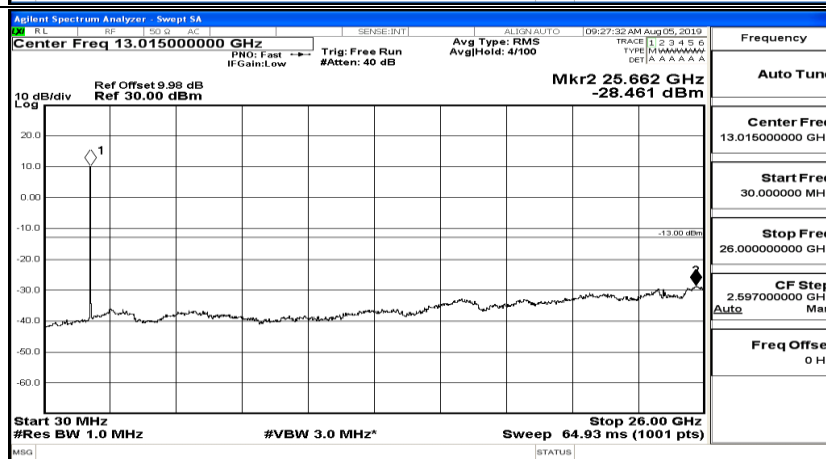
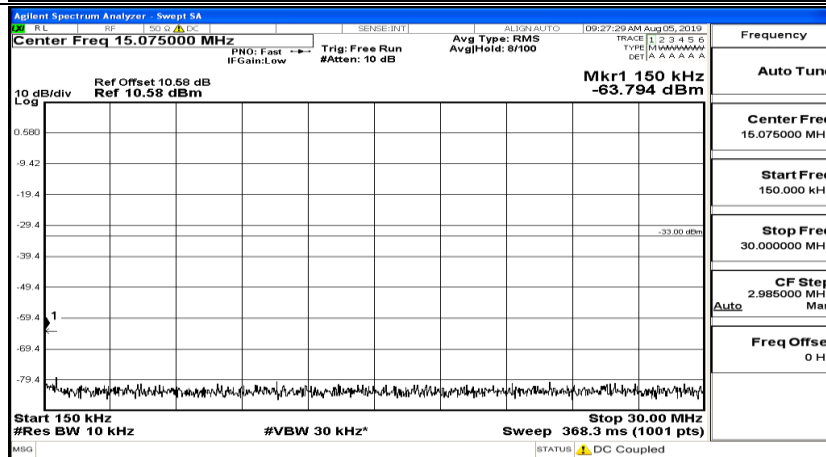
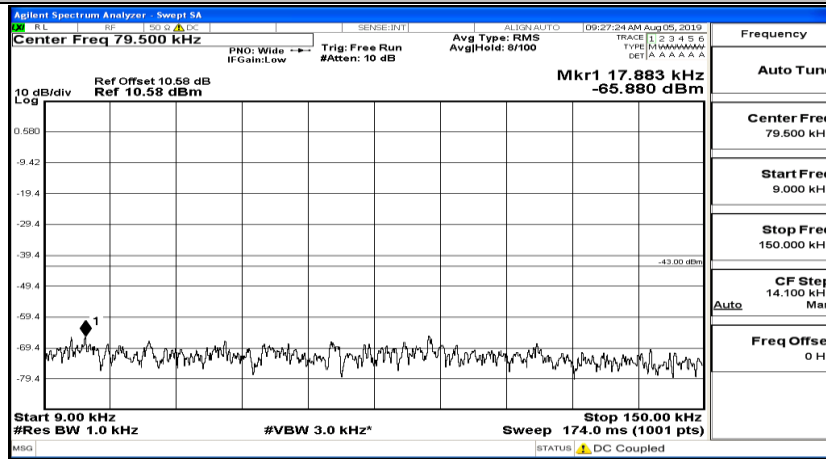
Auto

Freq Offset 0 Hz

STATUS DC Coupled



CSE Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM



CSE Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

