UHD: USRP Source
Device Address: add...68.10.2
Sync: Unknown PPS
Mb0: Clock Source: External
Mb0: Time Source: External
Mb0: Subdev Spec: A:0 B:0
Samp rate (Sps): 5M
Ch0: Center Freq (Hz): 70M
Ch0: AGC: Default
Ch0: Gain Value: 6
Ch0: Antenna: A
Ch1: Center Freq (Hz): 70M
Ch1: AGC: Default
Ch1: Gain Value: 0
Ch1: Antenna: A

Variable
ID: samp_rate
Value: 5M

Options
Title: Not titled yet
Output Language: Python
Generate Options: QT GUI

command
out0
out1

Interleave
in0
in1
out
in

Complex To IShort
Scale Factor: 32.767k
Vector Output: No
out
in

File Sink
File: ...s_B210_20dB_50dB.bin
Unbuffered: Off
Append file: Overwrite

14 bit ADC = 84 dB dynamic range
=> if we only keep 8 bits, drops to 48 dB
We receive -90 dBm, gain 60 dB => -30 dBm
Max power is +6 dBm for full scale: with 8 bits,
+6-48=-42 dBm > -30 dBm so still OK

QT GUI Frequency Sink
FFT Size: 1024
Center Frequency (Hz): 0
Bandwidth (Hz): 5M
in0
in1

UHD: USRP Source
Sync: Unknown PPS
Mb0: Clock Source: External
Samp rate (Sps): 5M
Ch0: Center Freq (Hz): 70M
Ch0: AGC: Default
Ch0: Gain Value: 0
Ch0: Antenna: RX2
Ch1: Center Freq (Hz): 70M
Ch1: AGC: Default
Ch1: Gain Value: 50
Ch1: Antenna: RX2

command
out0
out1

QT GUI Time Sink
Number of Points: 1.024k
Sample Rate: 5M
Autoscale: No
in0
in1