Options Variable **Variable Variable** Variable **Variable** Title: Beamscan... estimation ID: samp_rate ID: phi_scan_min ID: phi_scan_max **ID:** phi_step **ID:** spectrum_len **Author:** markus Value: 50 Value: 5M **Value:** -50 Value: 2 **Value:** 51 Output Language: Python **Generate Options: QT GUI Variable** Variable **Variable** Variable **Variable ID:** targets ID: center_freq ID: gain ID: snapshot_count **ID:** in_snr **Value:** 2.44G Value: 64 **Value:** 50 Value: 1**Value:** 20 **Beamscan spatial spectrum estimator File Source** Num_Samples: 64 File: ..._{in_snr}dB_snr.raw" **Throttle** Signal_Freq: 2.44G Repeat: Yes Sample Rate: 5M out **Deinterleave Array_D:** 500m Add begin tag: () Limit: None Phi_Scan_Min: -50 Offset: 0 Phi_Scan_Max: 50 Length: 0 Phi_Step: 2 Rx1 Phase Cal: 0 Rx2_Phase_Cal: 0 Rx3_Phase_Cal: 0 Rx4_Phase_Cal: 0 **QT GUI Time Sink Number of Points:** 1.024k **MVDR** spatial spectrum estimator Sample Rate: 5M Num Samples: 64 Autoscale: No Signal_Freq: 2.44G Array_D: 500m Phi Scan Min: -50 Phi_Scan_Max: 50 Phi Step: 2 **UHD: USRP Source** Rx1_Phase_Cal: 0 Device Address: add...68.10.2 Rx2_Phase_Cal: 0 Rx3_Phase_Cal: 0 **Sync:** PC Clock Clock Rate (Hz): 200 MHz Rx4_Phase_Cal: 0 Mb0: Clock Source: Internal out0 Samp rate (Sps): 5M Ch0: Center Freq (Hz): 2.44G command out1 Ch0: AGC: Default Ch0: Gain Value: 50 async_msgs Ch0: Antenna: TX/RX Ch1: Center Freq (Hz): 2.44G Ch1: AGC: Default Ch1: Gain Value: 50 Ch1: Antenna: TX/RX **UHD: USRP Source** Device Address: add...68.10.4 Sync: PC Clock Clock Rate (Hz): 200 MHz **Mb0: Clock Source:** External Mb0: Time Source: External Mb1: Clock Source: External out0 Mb1: Time Source: External Samp rate (Sps): 5M out1 command Ch0: Center Freq (Hz): 2.44G Ch0: AGC: Default async msgs Ch0: Gain Value: 50 **Ch0: Antenna:** TX/RX Ch1: Center Freq (Hz): 2.44G

Ch1: AGC: Default Ch1: Gain Value: 50 Ch1: Antenna: TX/RX **QT GUI Vector Sink**

X-Axis Label: Steering angle

File Sink

File: ..._{in_snr}dB_snr.raw"

X-Axis Start Value: -50 X-Axis Step Value: 2

Y-Axis Label: Power

Vector Length: 51

Append file: Overwrite

QT GUI Time Sink

Number of Points: 1.024k

QT GUI Vector Sink

X-Axis Label: Steering angle

File Sink

File: ..._{in_snr}dB_snr.raw"

X-Axis Start Value: -50

X-Axis Step Value: 2

Y-Axis Label: Power

Vector Length: 51

Append file: Overwrite

QT GUI Time Sink

Number of Points: 1.024k

Unbuffered: Off

Sample Rate: 5M

Autoscale: Yes

Ref Level: 0

Unbuffered: Off

Sample Rate: 5M **Autoscale:** Yes

Vector Size: 51

Ref Level: 0

Vector Size: 51