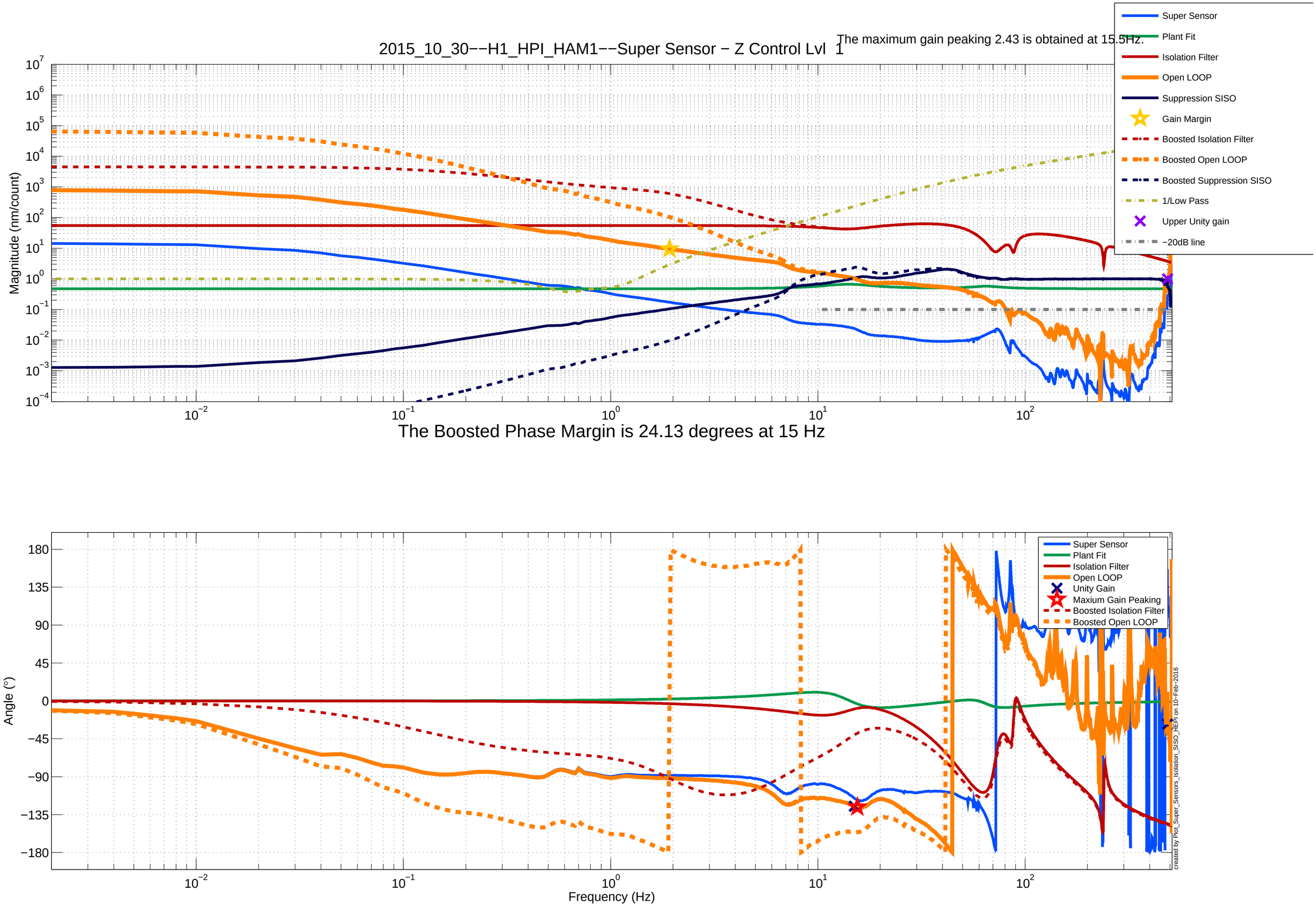
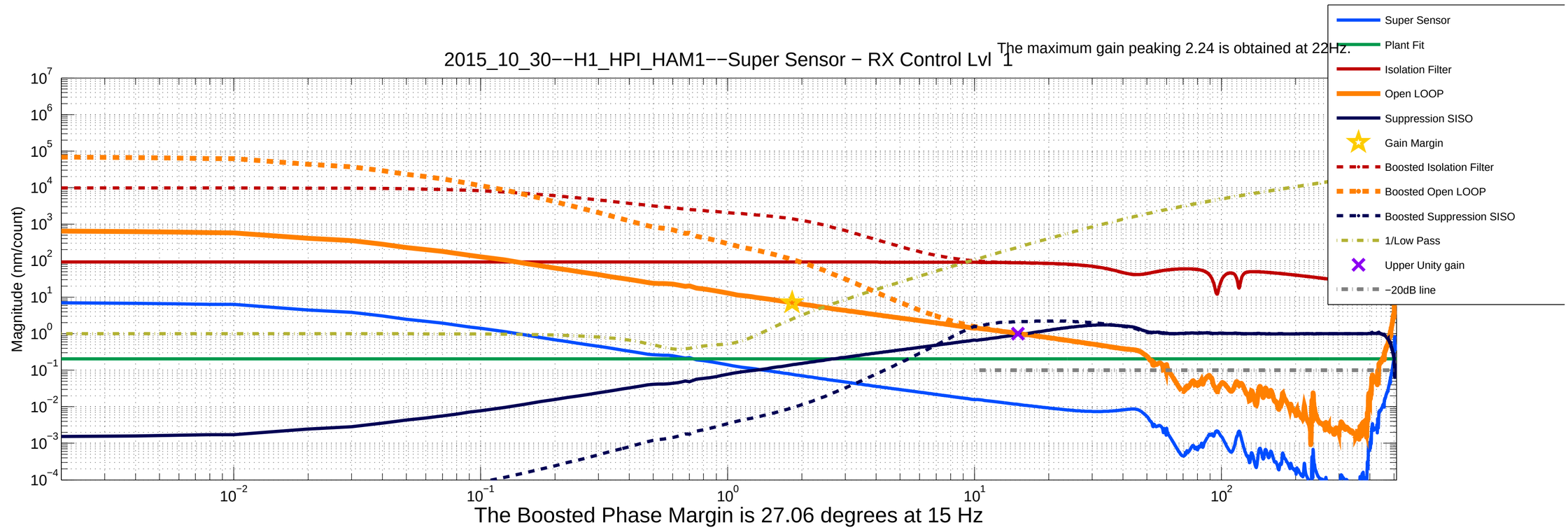
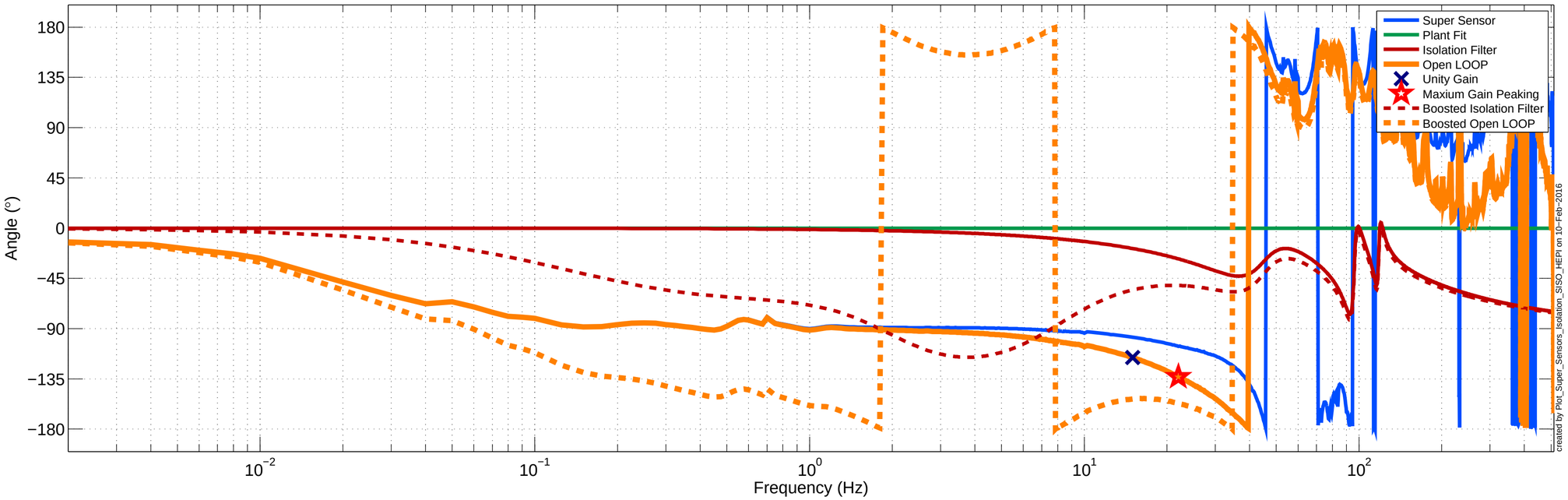
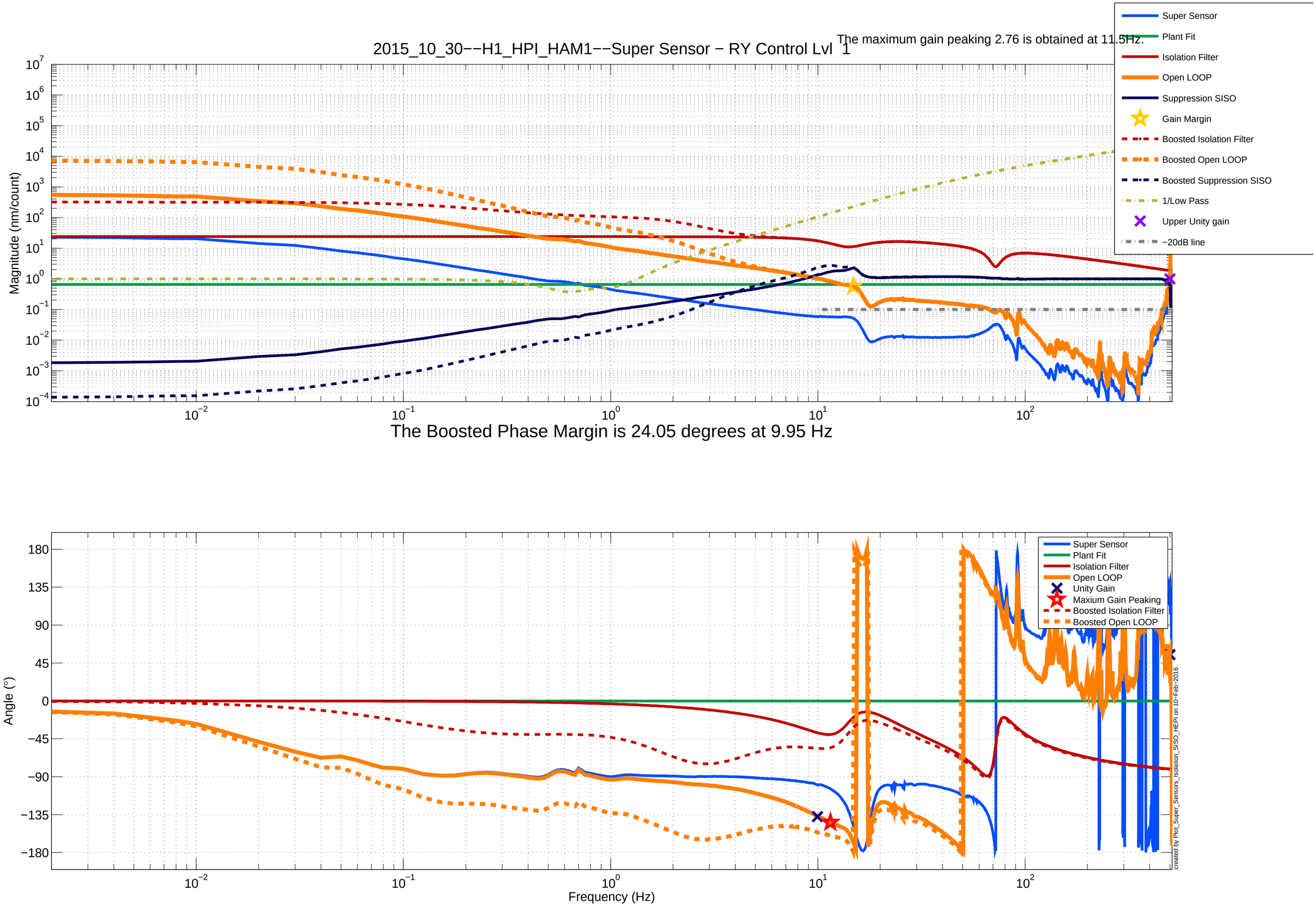
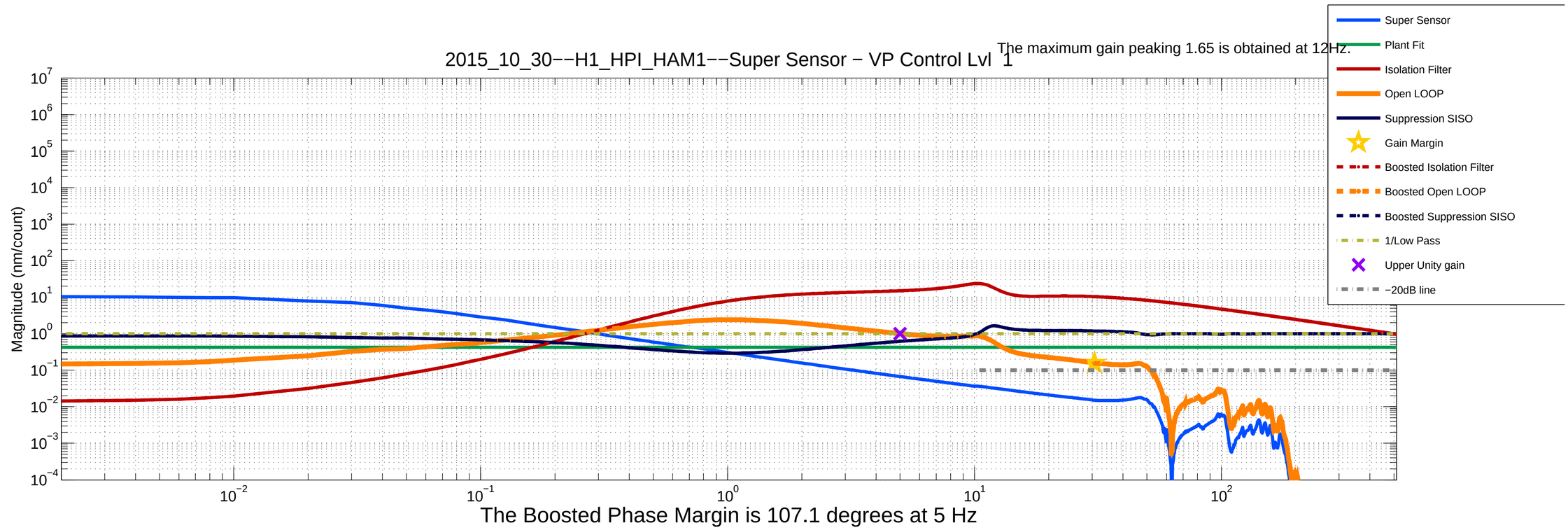
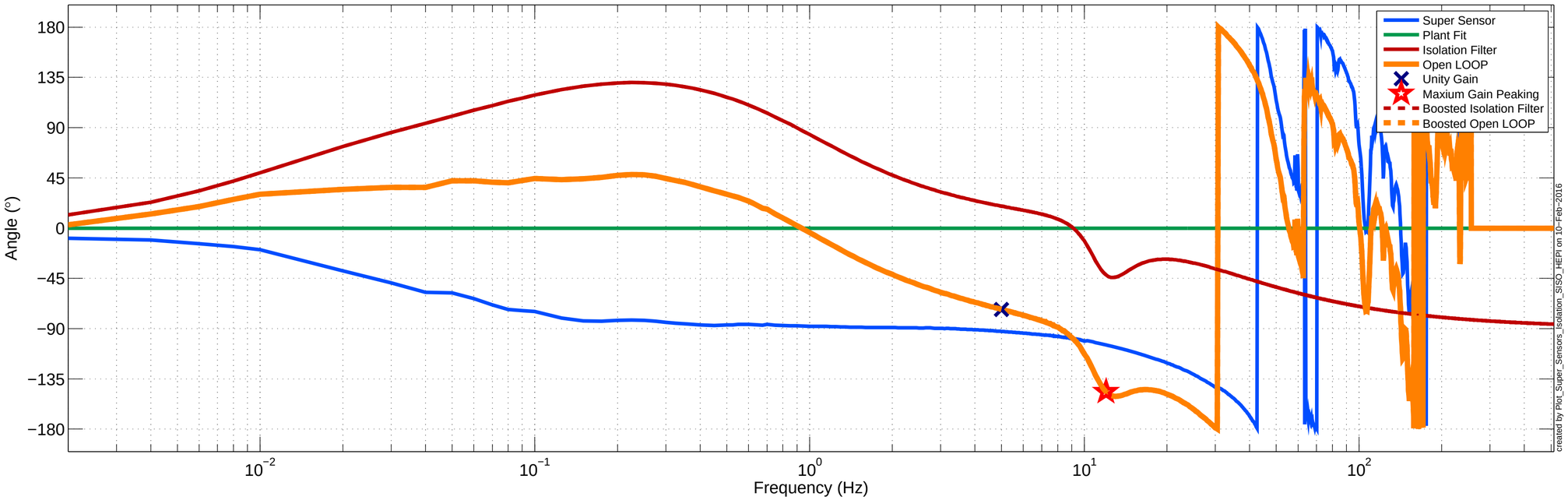

2015_10_30−−H1_HPI_HAM1−−Super Sensor − Z Control Lvl 1
The maximum gain peaking 2.43 is obtained at 15.5Hz.
Magnitude (nm/count)
The Boosted Phase Margin is 24.13 degrees at 15 Hz
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Suppression SISO
Gain Margin
Boosted Isolation Filter
Boosted Open LOOP
Boosted Suppression SISO
1/Low Pass
Upper Unity gain
−20dB line
Angle (°)
Frequency (Hz)
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Unity Gain
Maxium Gain Peaking
Boosted Isolation Filter
Boosted Open LOOP
created by Plot_Super_Sensors_Isolation_SISO_HEPI on 10−Feb−2016

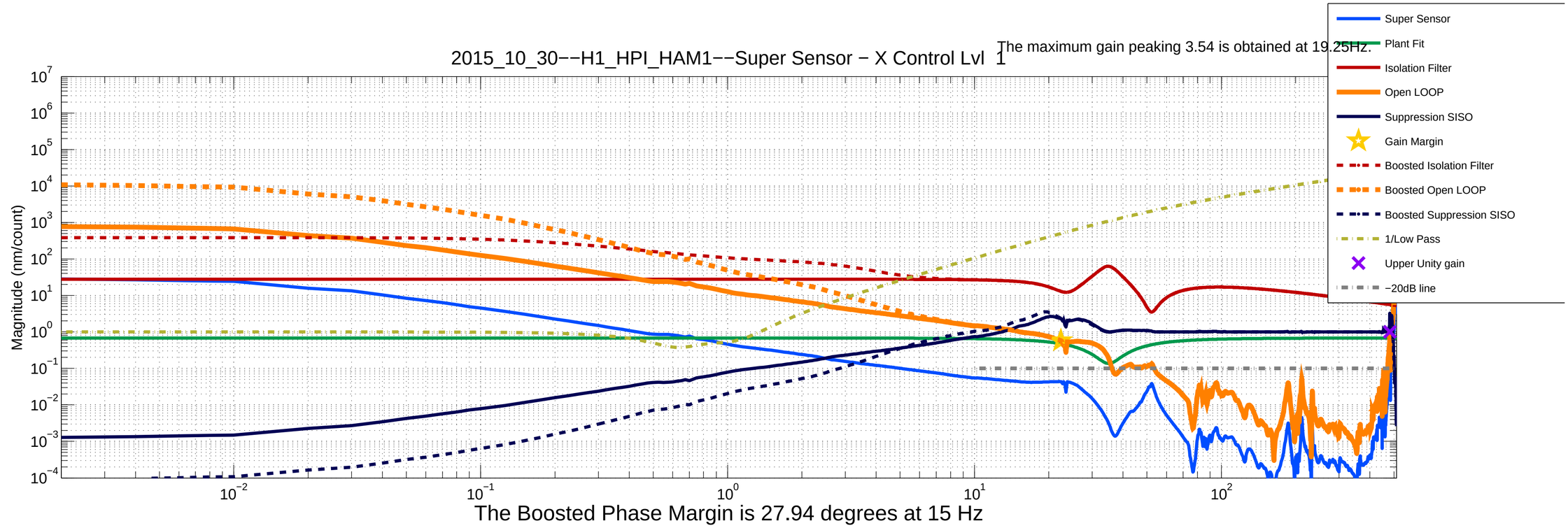

2015_10_30−−H1_HPI_HAM1−−Super Sensor − RX Control Lvl 1
The maximum gain peaking 2.24 is obtained at 22Hz.
Magnitude (nm/count)
The Boosted Phase Margin is 27.06 degrees at 15 Hz
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Suppression SISO
Gain Margin
Boosted Isolation Filter
Boosted Open LOOP
Boosted Suppression SISO
1/Low Pass
Upper Unity gain
−20dB line

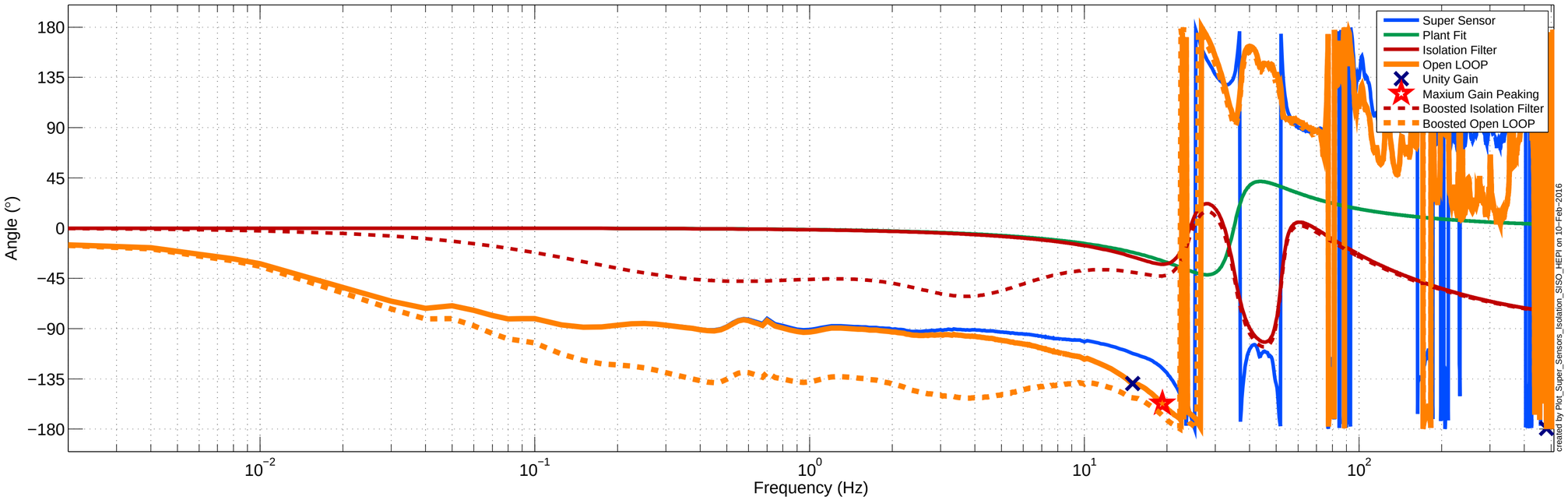

Angle (°)
Frequency (Hz)
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Unity Gain
Maxium Gain Peaking
Boosted Isolation Filter
Boosted Open LOOP
created by Plot_Super_Sensors_Isolation_SISO_HEPI on 10−Feb−2016

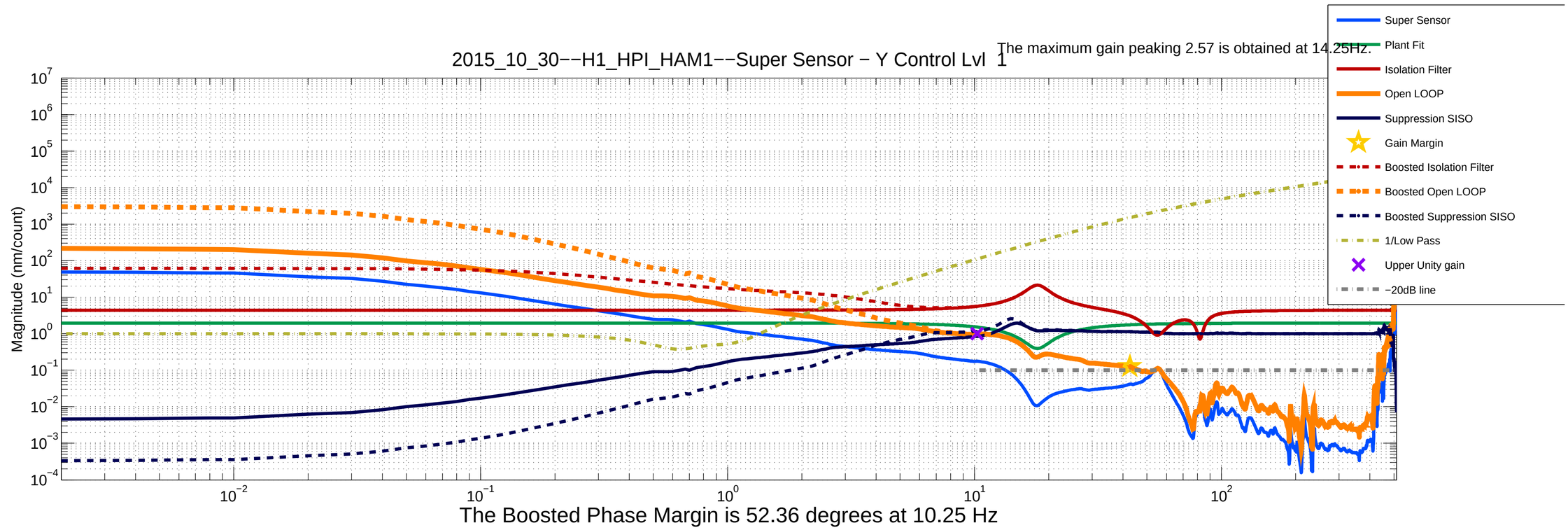

2015_10_30−−H1_HPI_HAM1−−Super Sensor − RY Control Lvl 1
The maximum gain peaking 2.76 is obtained at 11.5Hz.
Magnitude (nm/count)
The Boosted Phase Margin is 24.05 degrees at 9.95 Hz
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Suppression SISO
Gain Margin
Boosted Isolation Filter
Boosted Open LOOP
Boosted Suppression SISO
1/Low Pass
Upper Unity gain
−20dB line
Angle (°)
Frequency (Hz)
Unity Gain
Maxium Gain Peaking
created by Plot_Super_Sensors_Isolation_SISO_HEPI on 10−Feb−2016

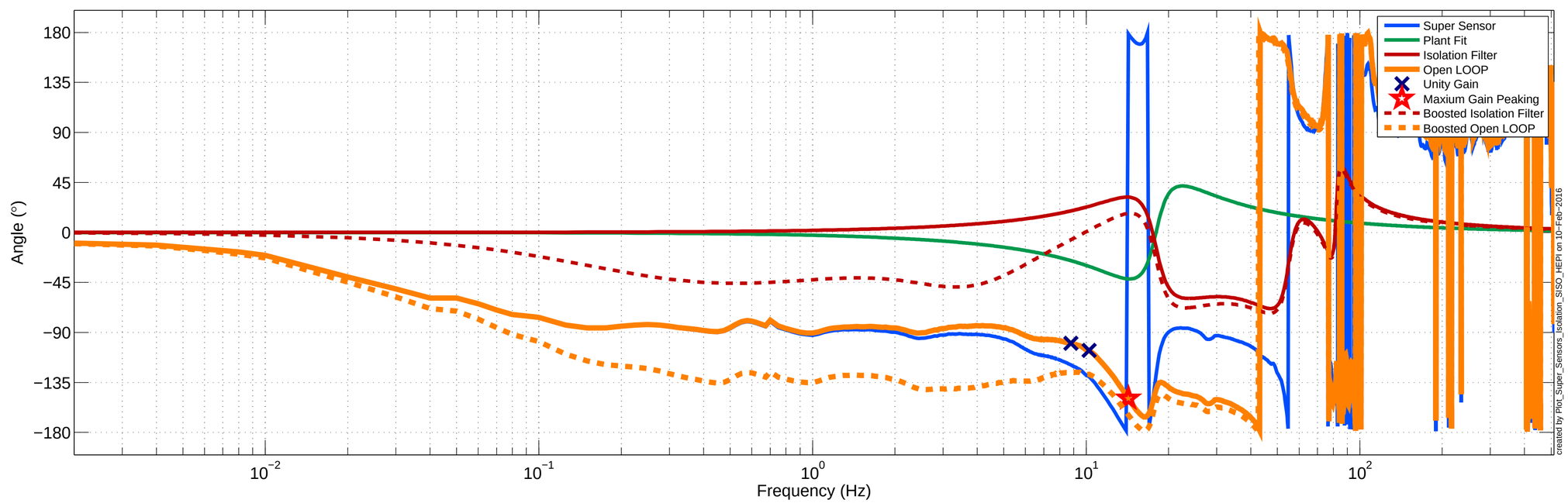

2015_10_30−−H1_HPI_HAM1−−Super Sensor − VP Control Lvl 1
The maximum gain peaking 1.65 is obtained at 12Hz.
Magnitude (nm/count)
The Boosted Phase Margin is 107.1 degrees at 5 Hz
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Suppression SISO
Gain Margin
Boosted Isolation Filter
Boosted Open LOOP
Boosted Suppression SISO
1/Low Pass
Upper Unity gain
−20dB line

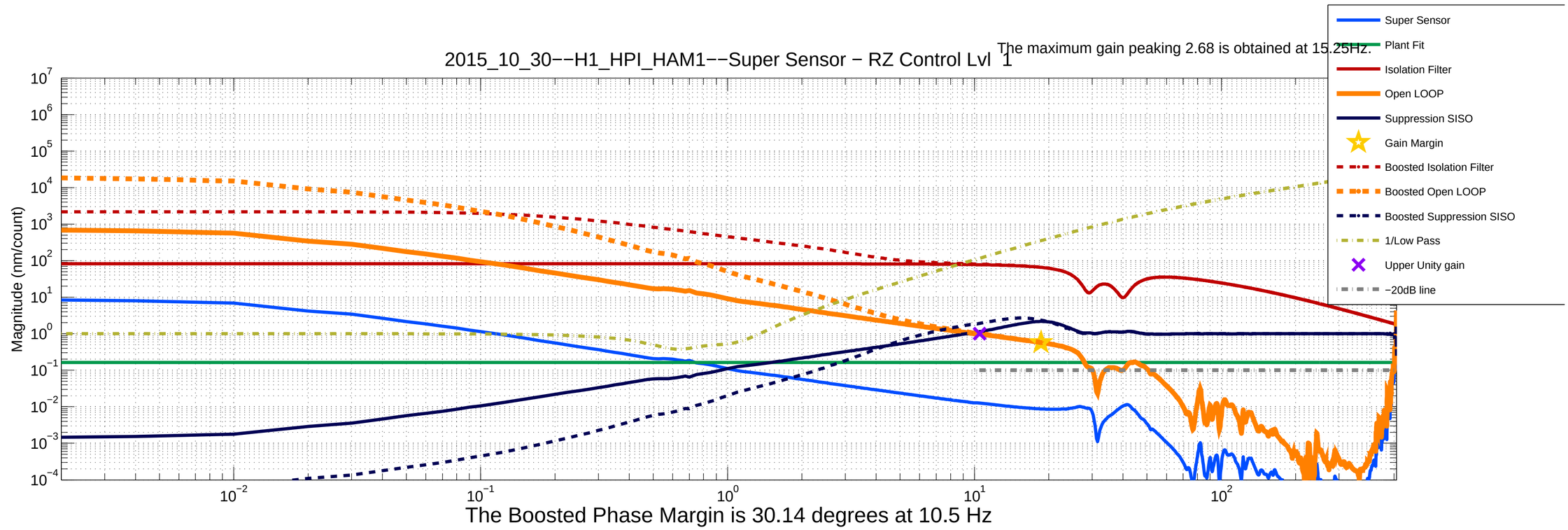

Angle (°)
Frequency (Hz)
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Unity Gain
Maxium Gain Peaking
Boosted Isolation Filter
Boosted Open LOOP
created by Plot_Super_Sensors_Isolation_SISO_HEPI on 10−Feb−2016

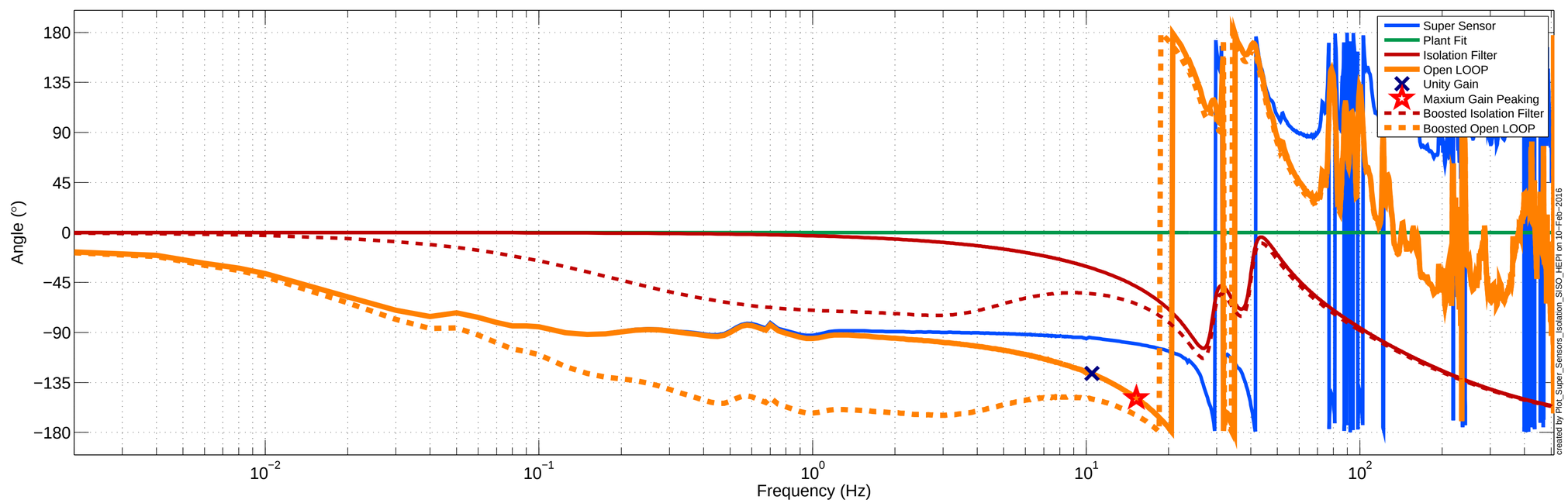

2015_10_30−−H1_HPI_HAM1−−Super Sensor − X Control Lvl 1
The maximum gain peaking 3.54 is obtained at 19.25Hz.
Magnitude (nm/count)
The Boosted Phase Margin is 27.94 degrees at 15 Hz
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Suppression SISO
Gain Margin
Boosted Isolation Filter
Boosted Open LOOP
Boosted Suppression SISO
1/Low Pass
Upper Unity gain
−20dB line

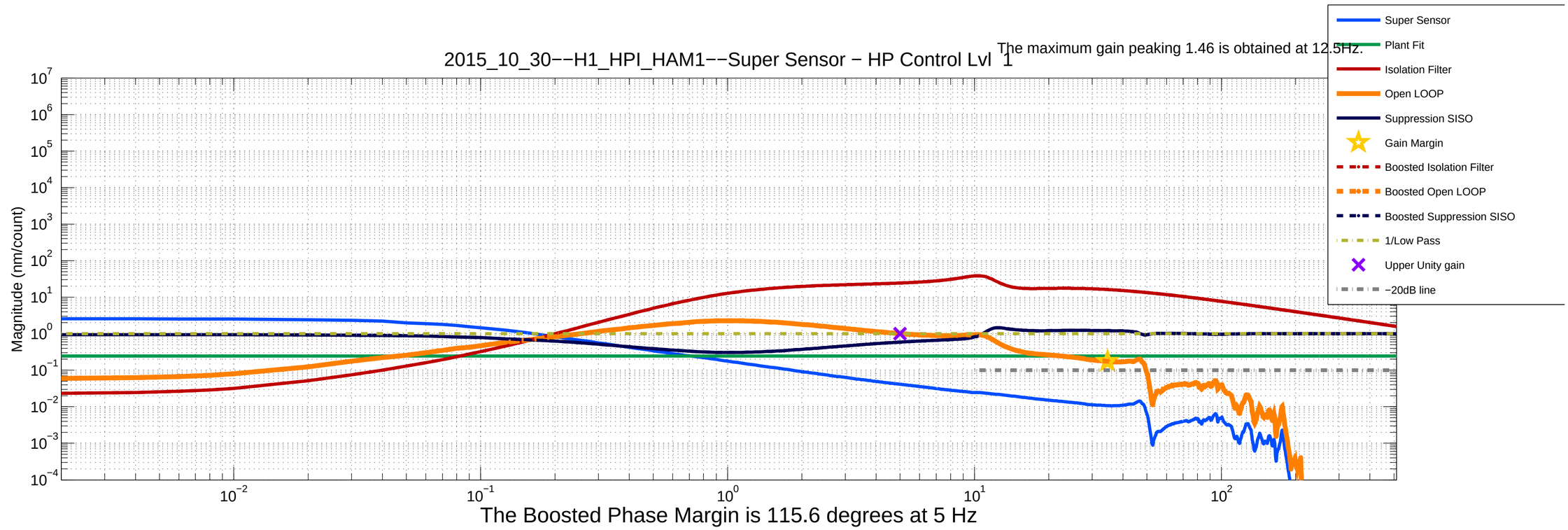

Angle (°)
Frequency (Hz)
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Unity Gain
Maxium Gain Peaking
Boosted Isolation Filter
Boosted Open LOOP
created by Plot_Super_Sensors_Isolation_SISO_HEPI on 10−Feb−2016

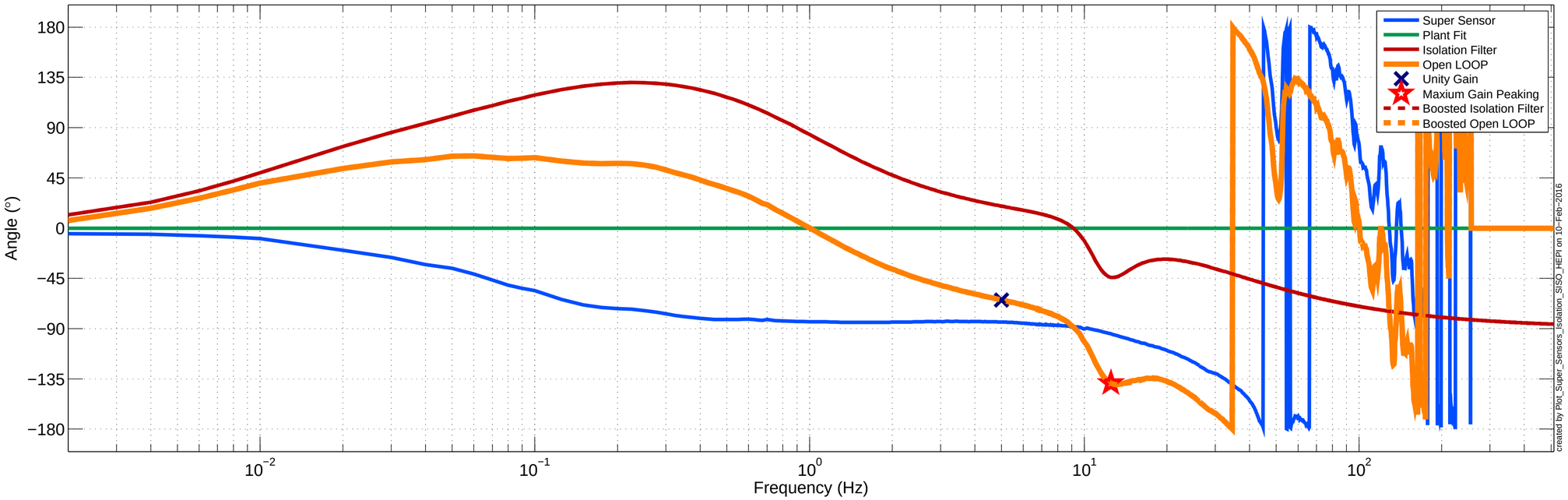

2015_10_30−−H1_HPI_HAM1−−Super Sensor − Y Control Lvl 1
The maximum gain peaking 2.57 is obtained at 14.25Hz.
Magnitude (nm/count)
The Boosted Phase Margin is 52.36 degrees at 10.25 Hz
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Suppression SISO
Gain Margin
Boosted Isolation Filter
Boosted Open LOOP
Boosted Suppression SISO
1/Low Pass
Upper Unity gain
−20dB line


Angle (°)
Frequency (Hz)
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Unity Gain
Maxium Gain Peaking
Boosted Isolation Filter
Boosted Open LOOP
created by Plot_Super_Sensors_Isolation_SISO_HEPI on 10−Feb−2016


2015_10_30−−H1_HPI_HAM1−−Super Sensor − RZ Control Lvl 1
The maximum gain peaking 2.68 is obtained at 15.25Hz.
Magnitude (nm/count)
The Boosted Phase Margin is 30.14 degrees at 10.5 Hz
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Suppression SISO
Gain Margin
Boosted Isolation Filter
Boosted Open LOOP
Boosted Suppression SISO
1/Low Pass
Upper Unity gain
−20dB line


Angle (°)
Frequency (Hz)
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Unity Gain
Maxium Gain Peaking
Boosted Isolation Filter
Boosted Open LOOP
created by Plot_Super_Sensors_Isolation_SISO_HEPI on 10−Feb−2016


2015_10_30−−H1_HPI_HAM1−−Super Sensor − HP Control Lvl 1
The maximum gain peaking 1.46 is obtained at 12.5Hz.
Magnitude (nm/count)
The Boosted Phase Margin is 115.6 degrees at 5 Hz
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Suppression SISO
Gain Margin
Boosted Isolation Filter
Boosted Open LOOP
Boosted Suppression SISO
1/Low Pass
Upper Unity gain
−20dB line


Angle (°)
Frequency (Hz)
Super Sensor
Plant Fit
Isolation Filter
Open LOOP
Unity Gain
Maxium Gain Peaking
Boosted Isolation Filter
Boosted Open LOOP
created by Plot_Super_Sensors_Isolation_SISO_HEPI on 10−Feb−2016