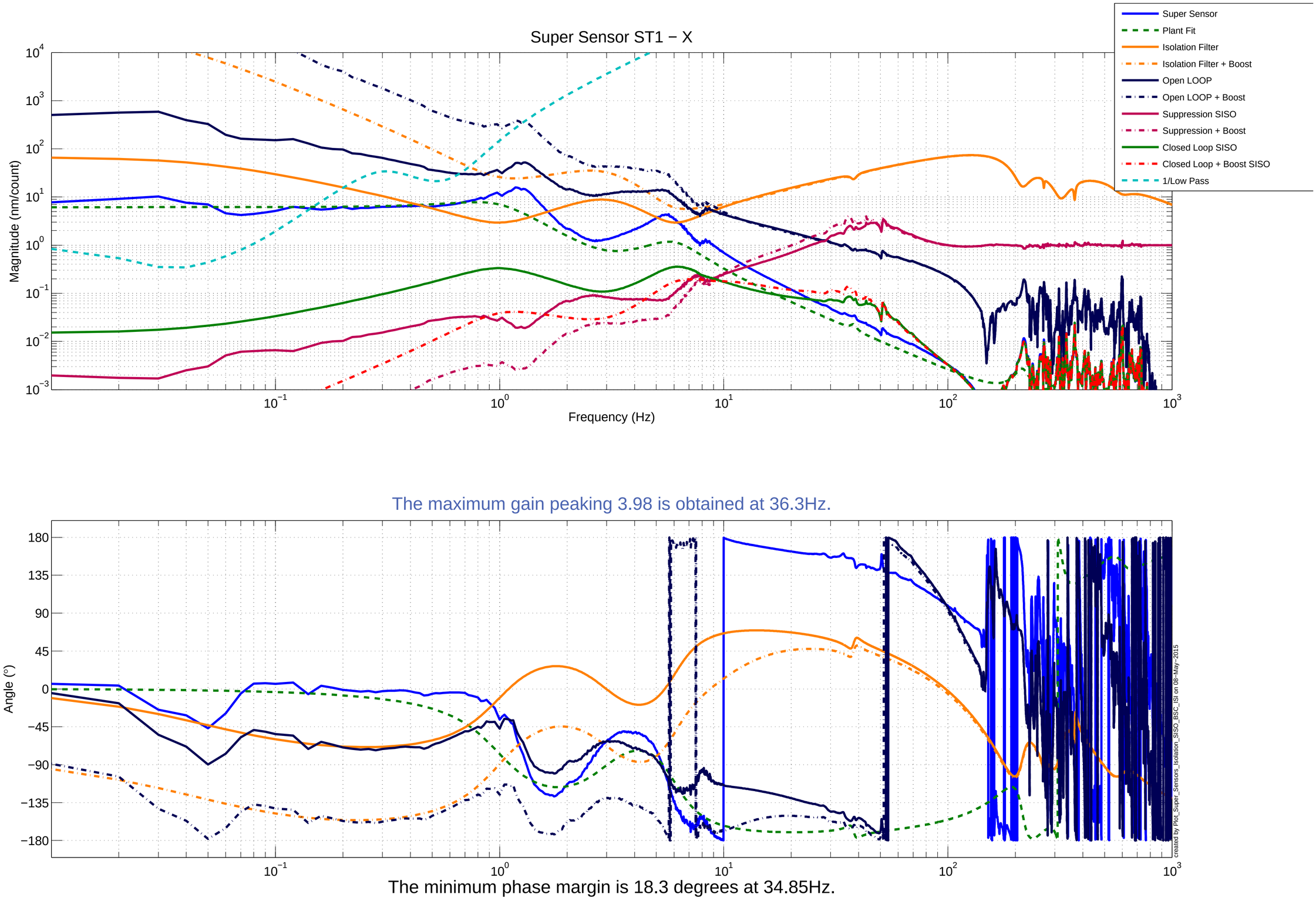
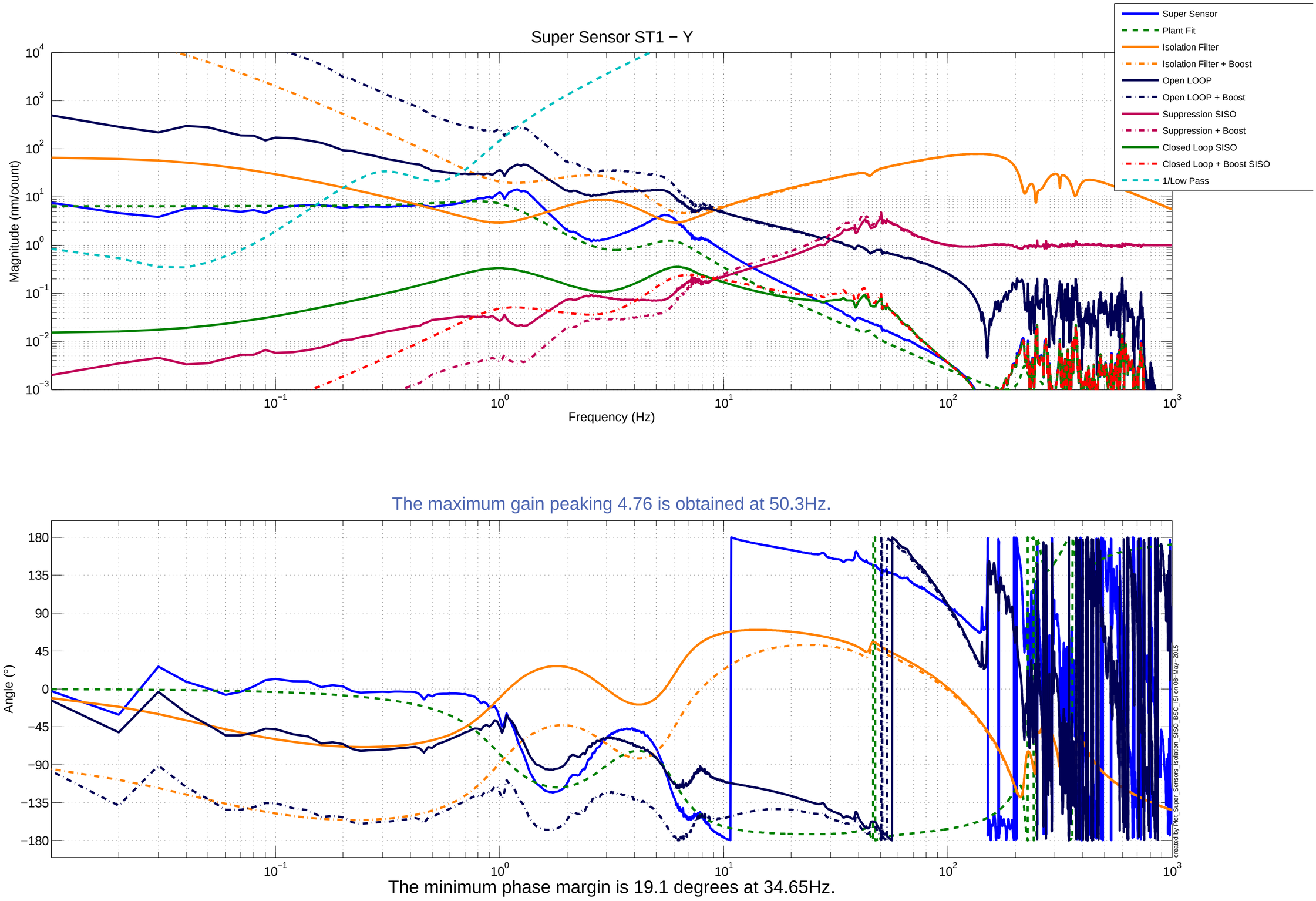
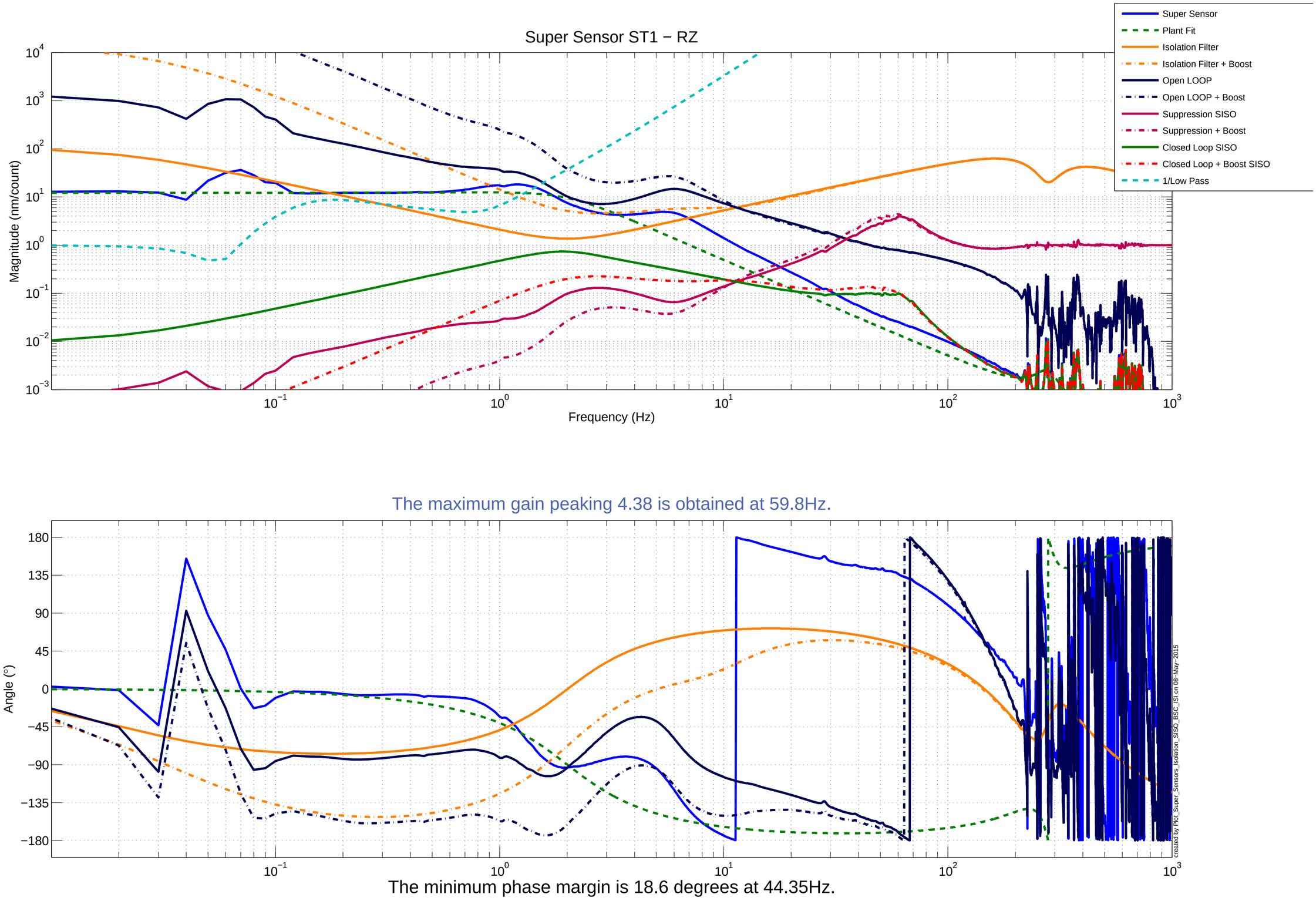
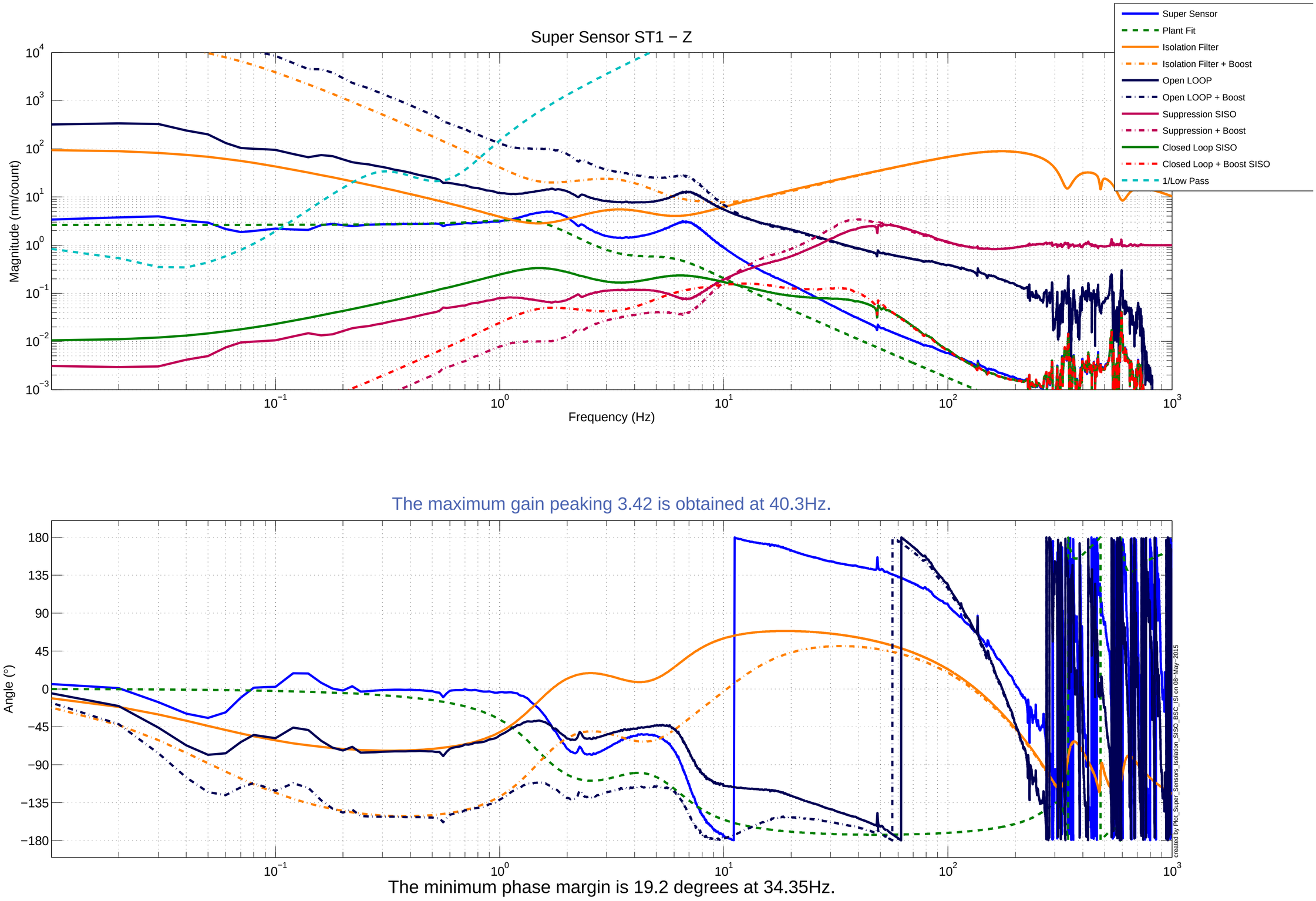
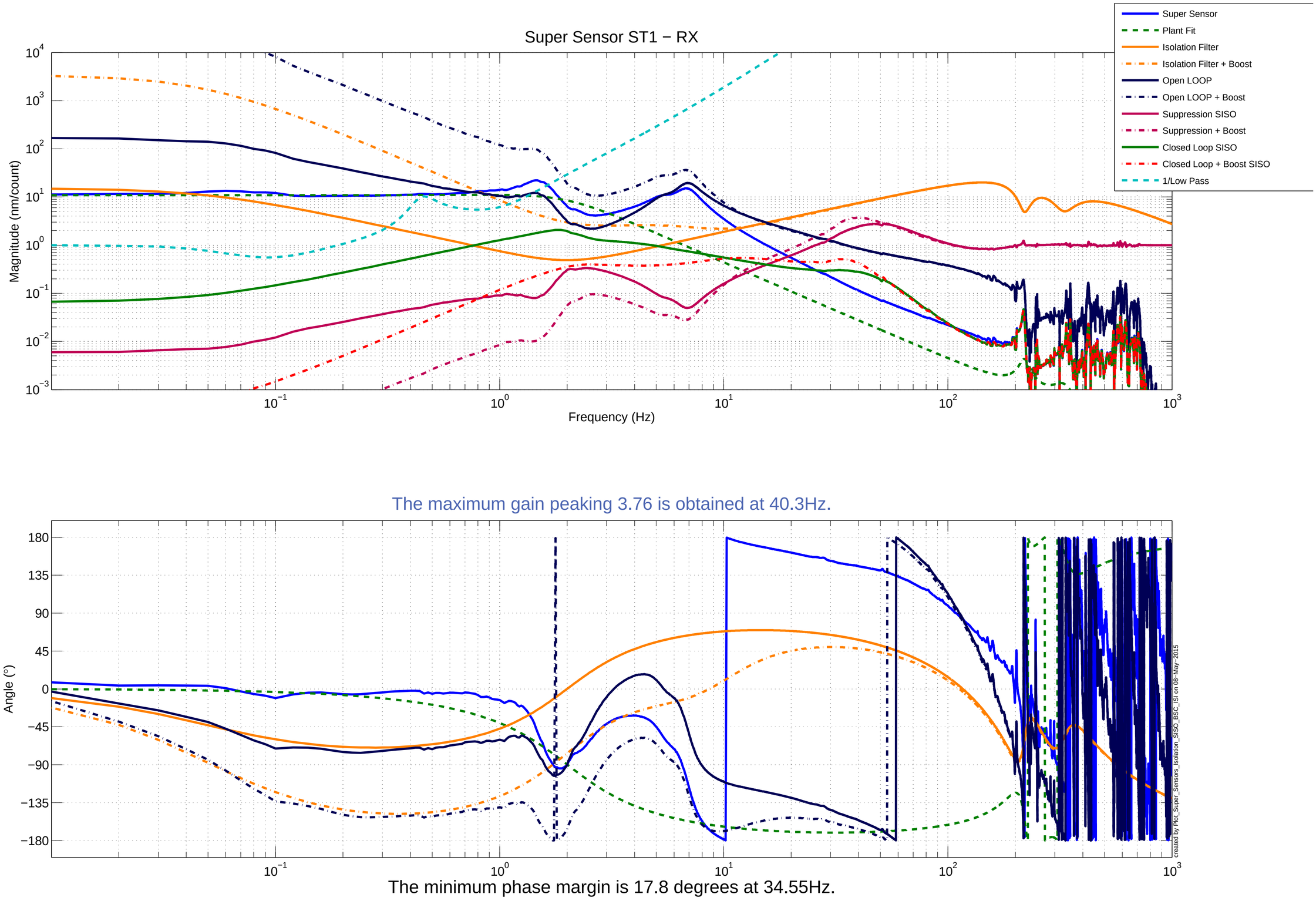
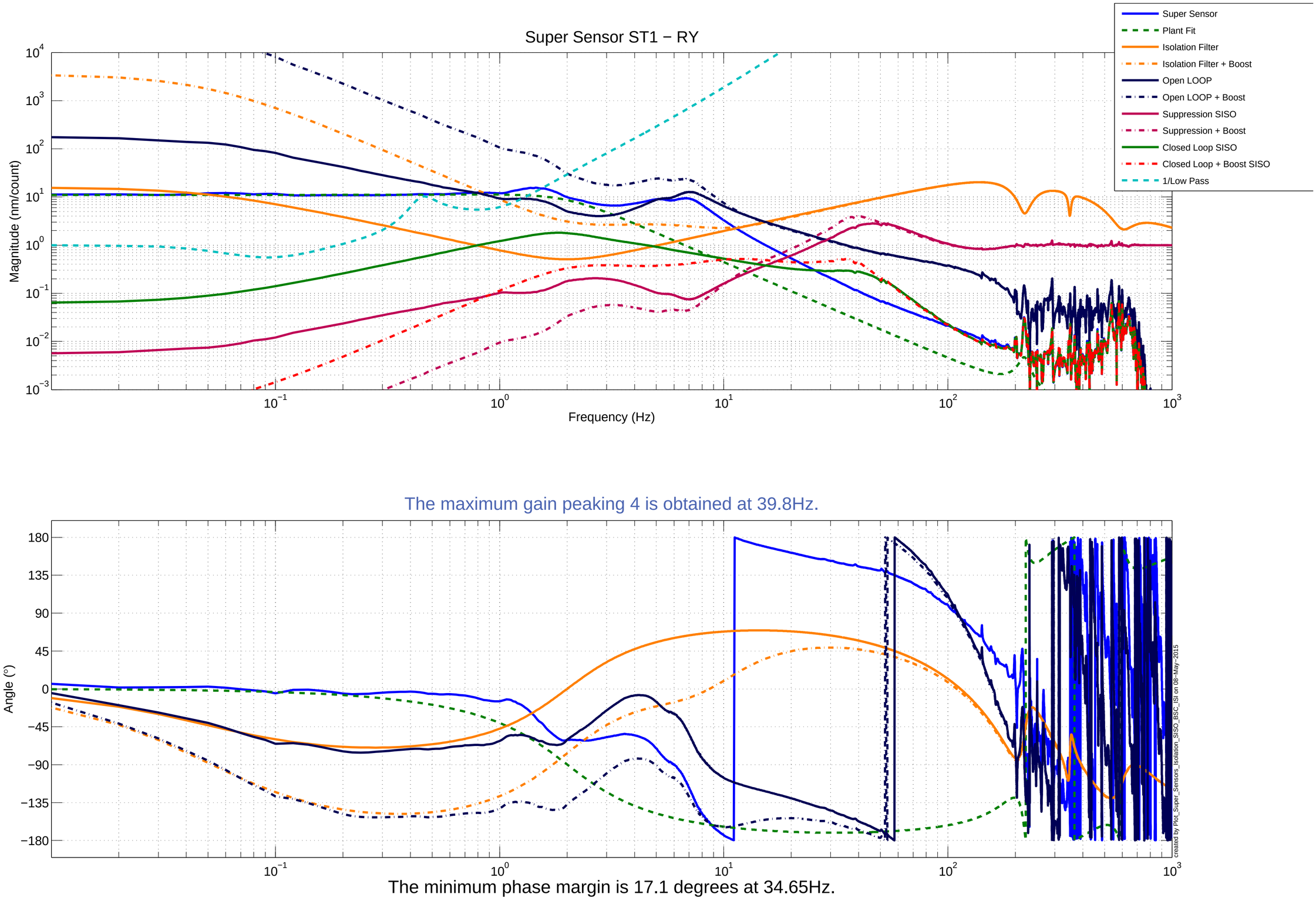

Super Sensor ST1 − X
Magnitude (nm/count)
Frequency (Hz)
The maximum gain peaking 3.98 is obtained at 36.3Hz.
Angle (°)
The minimum phase margin is 18.3 degrees at 34.85Hz.
Super Sensor
Plant Fit
Isolation Filter
Isolation Filter + Boost
Open LOOP
Open LOOP + Boost
Suppression SISO
Suppression + Boost
Closed Loop SISO
Closed Loop + Boost SISO
1/Low Pass
created by Plot_Super_Sensors_Isolation_SISO_BSC_ISI on 08−May−2015

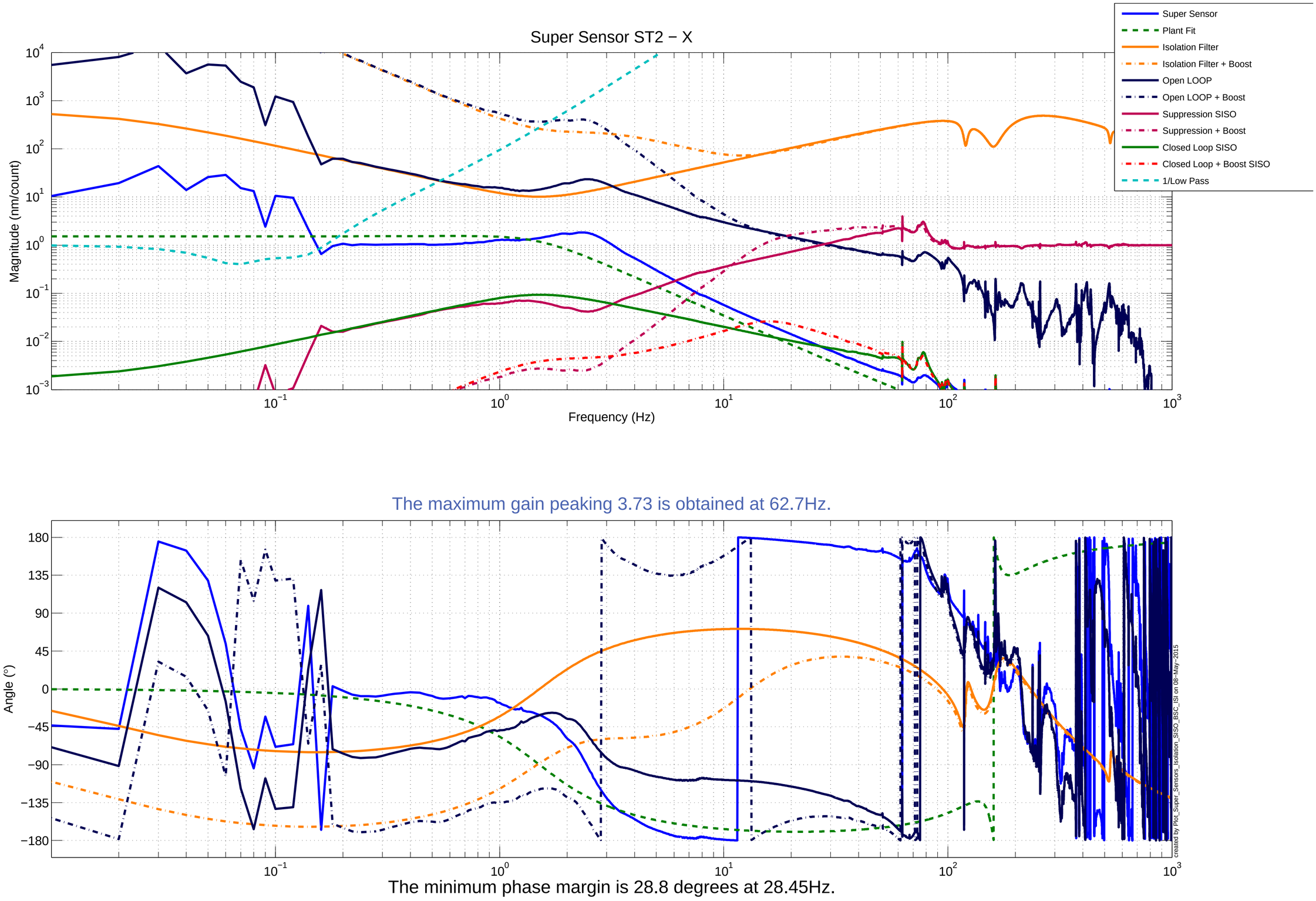

Super Sensor ST1 − Y
Magnitude (nm/count)
Frequency (Hz)
The maximum gain peaking 4.76 is obtained at 50.3Hz.
Angle (°)
The minimum phase margin is 19.1 degrees at 34.65Hz.
Super Sensor
Plant Fit
Isolation Filter
Isolation Filter + Boost
Open LOOP
Open LOOP + Boost
Suppression SISO
Suppression + Boost
Closed Loop SISO
Closed Loop + Boost SISO
1/Low Pass
created by Plot_Super_Sensors_Isolation_SISO_BSC_ISI on 08−May−2015

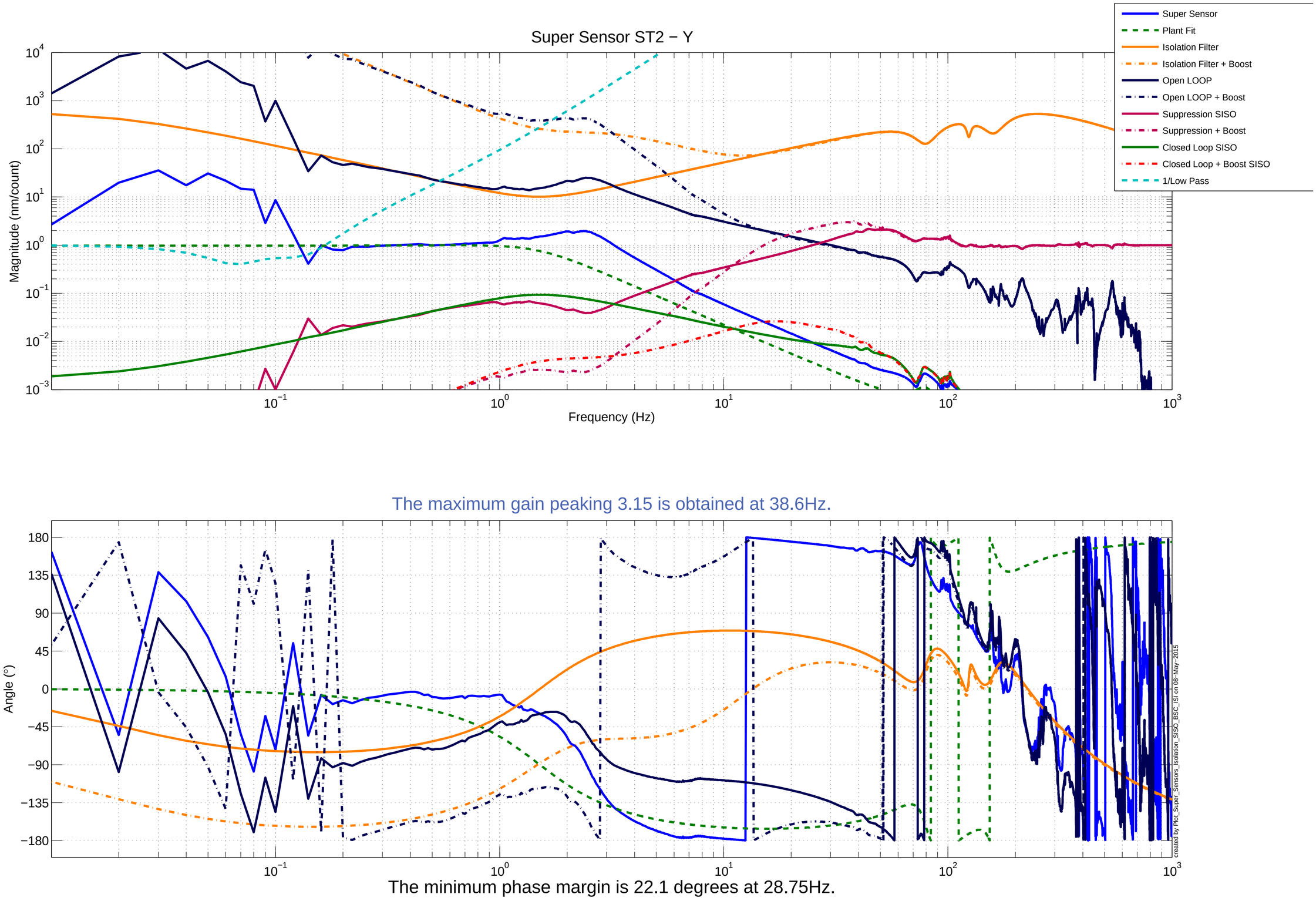

Super Sensor ST1 − RZ
Magnitude (nm/count)
Frequency (Hz)
Super Sensor
Plant Fit
Isolation Filter
Isolation Filter + Boost
Open LOOP
Open LOOP + Boost
Suppression SISO
Suppression + Boost
Closed Loop SISO
Closed Loop + Boost SISO
1/Low Pass
The maximum gain peaking 4.38 is obtained at 59.8Hz.
Angle (°)
The minimum phase margin is 18.6 degrees at 44.35Hz.
created by Plot_Super_Sensors_Isolation_SISO_BSC_ISI on 08−May−2015

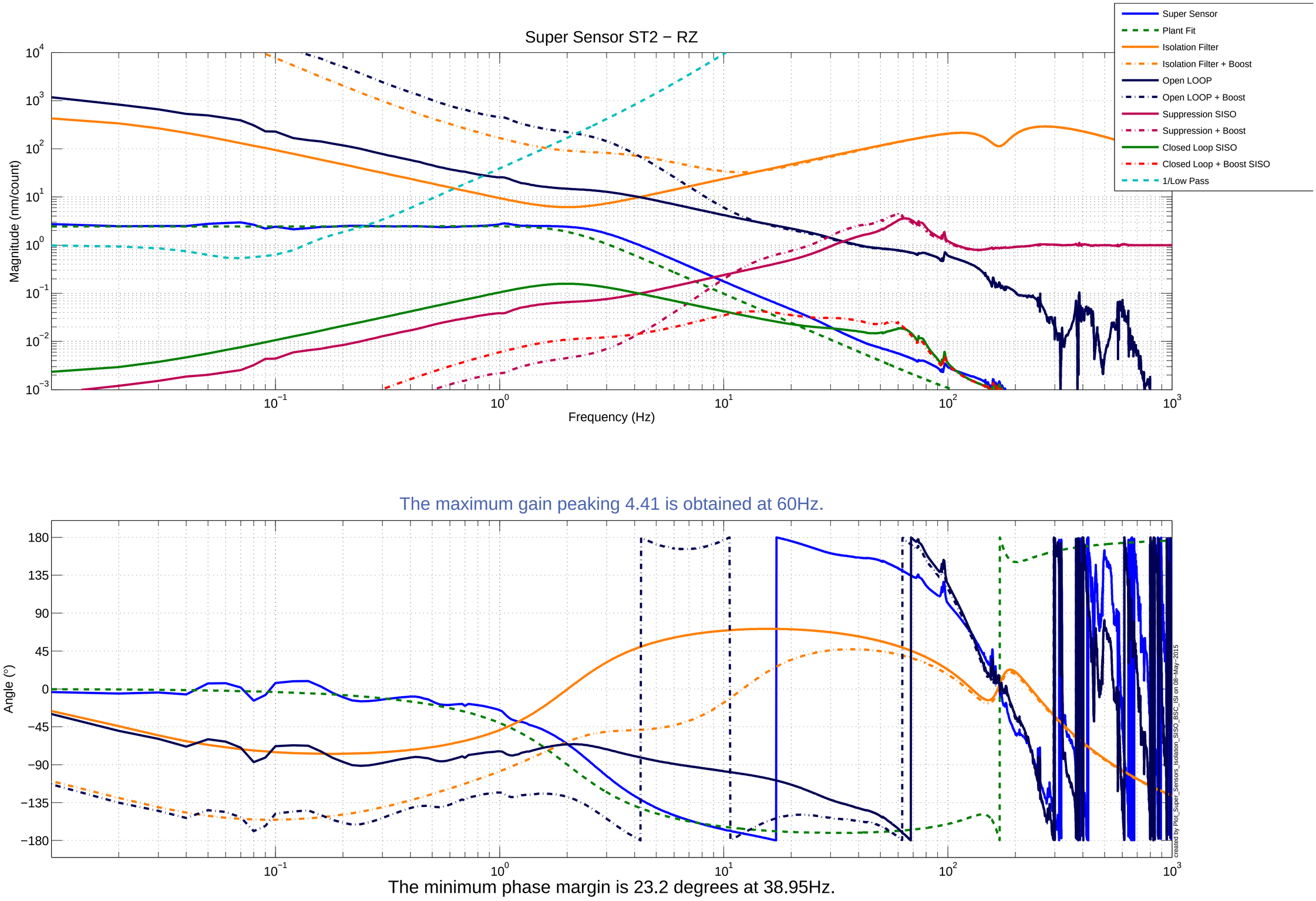

Super Sensor ST1 − Z
Magnitude (nm/count)
Frequency (Hz)
Super Sensor
Plant Fit
Isolation Filter
Isolation Filter + Boost
Open LOOP
Open LOOP + Boost
Suppression SISO
Suppression + Boost
Closed Loop SISO
Closed Loop + Boost SISO
1/Low Pass
The maximum gain peaking 3.42 is obtained at 40.3Hz.
Angle (°)
The minimum phase margin is 19.2 degrees at 34.35Hz.
created by Plot_Super_Sensors_Isolation_SISO_BSC_ISI on 08−May−2015

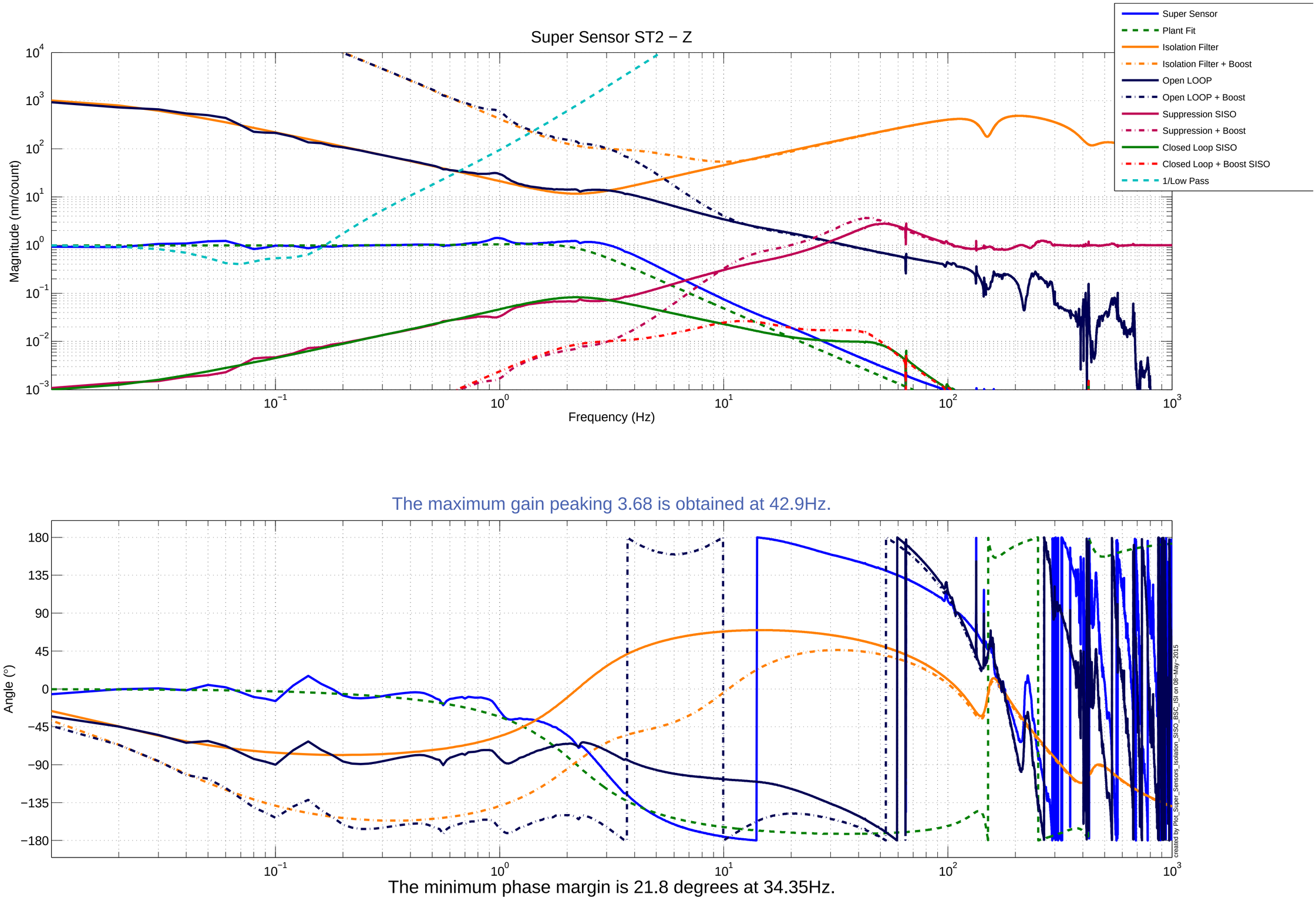

Super Sensor ST1 − RX
Super Sensor
Plant Fit
Isolation Filter
Isolation Filter + Boost
Open LOOP
Open LOOP + Boost
Suppression SISO
Suppression + Boost
Closed Loop SISO
Closed Loop + Boost SISO
1/Low Pass
Magnitude (nm/count)
Frequency (Hz)
The maximum gain peaking 3.76 is obtained at 40.3Hz.
Angle (°)
The minimum phase margin is 17.8 degrees at 34.55Hz.
created by Plot_Super_Sensors_Isolation_SISO_BSC_ISI on 08−May−2015

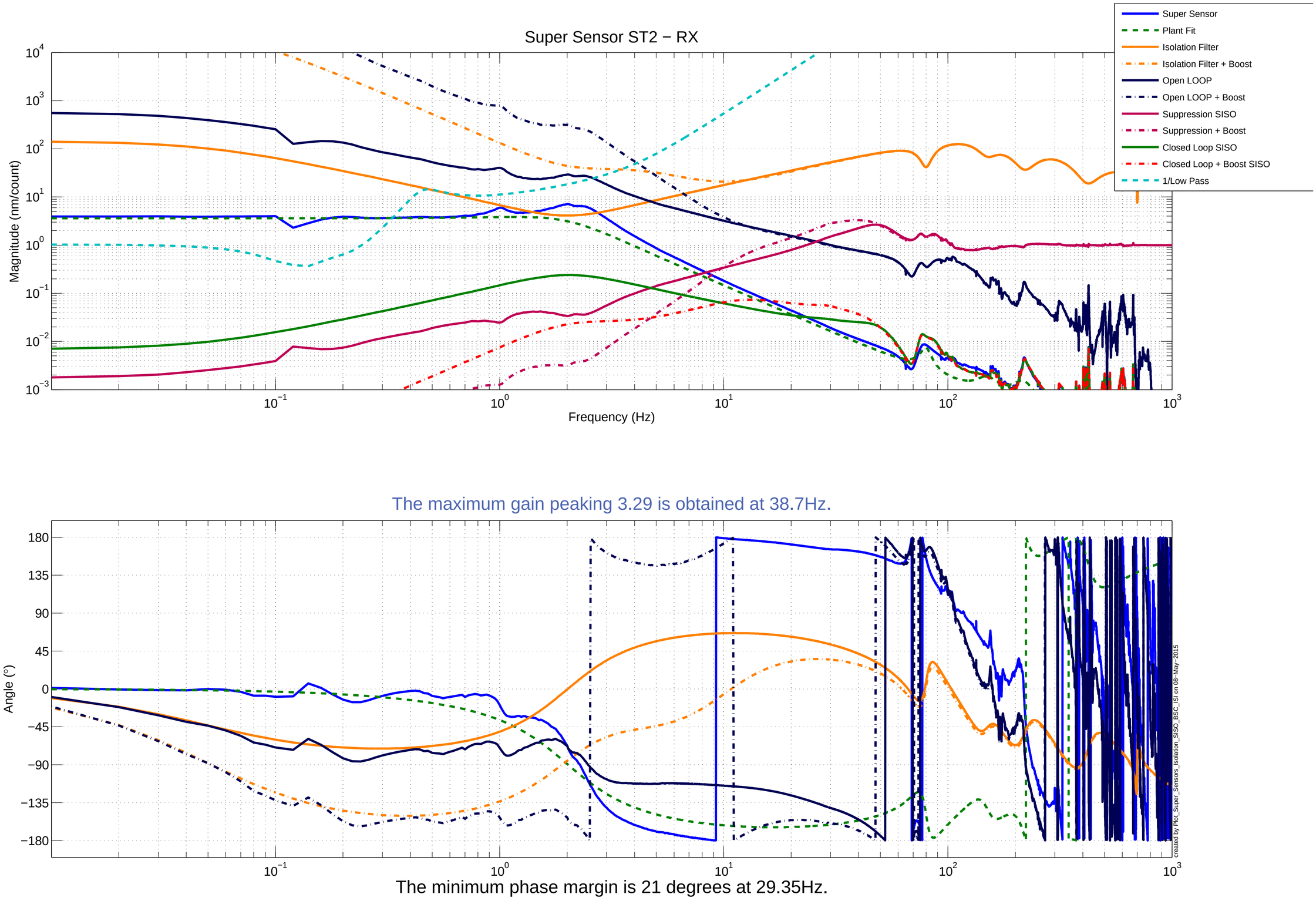

Super Sensor ST1 − RY
Magnitude (nm/count)
Frequency (Hz)
The maximum gain peaking 4 is obtained at 39.8Hz.
Angle (°)
The minimum phase margin is 17.1 degrees at 34.65Hz.
Super Sensor
Plant Fit
Isolation Filter
Isolation Filter + Boost
Open LOOP
Open LOOP + Boost
Suppression SISO
Suppression + Boost
Closed Loop SISO
Closed Loop + Boost SISO
1/Low Pass
created by Plot_Super_Sensors_Isolation_SISO_BSC_ISI on 08−May−2015

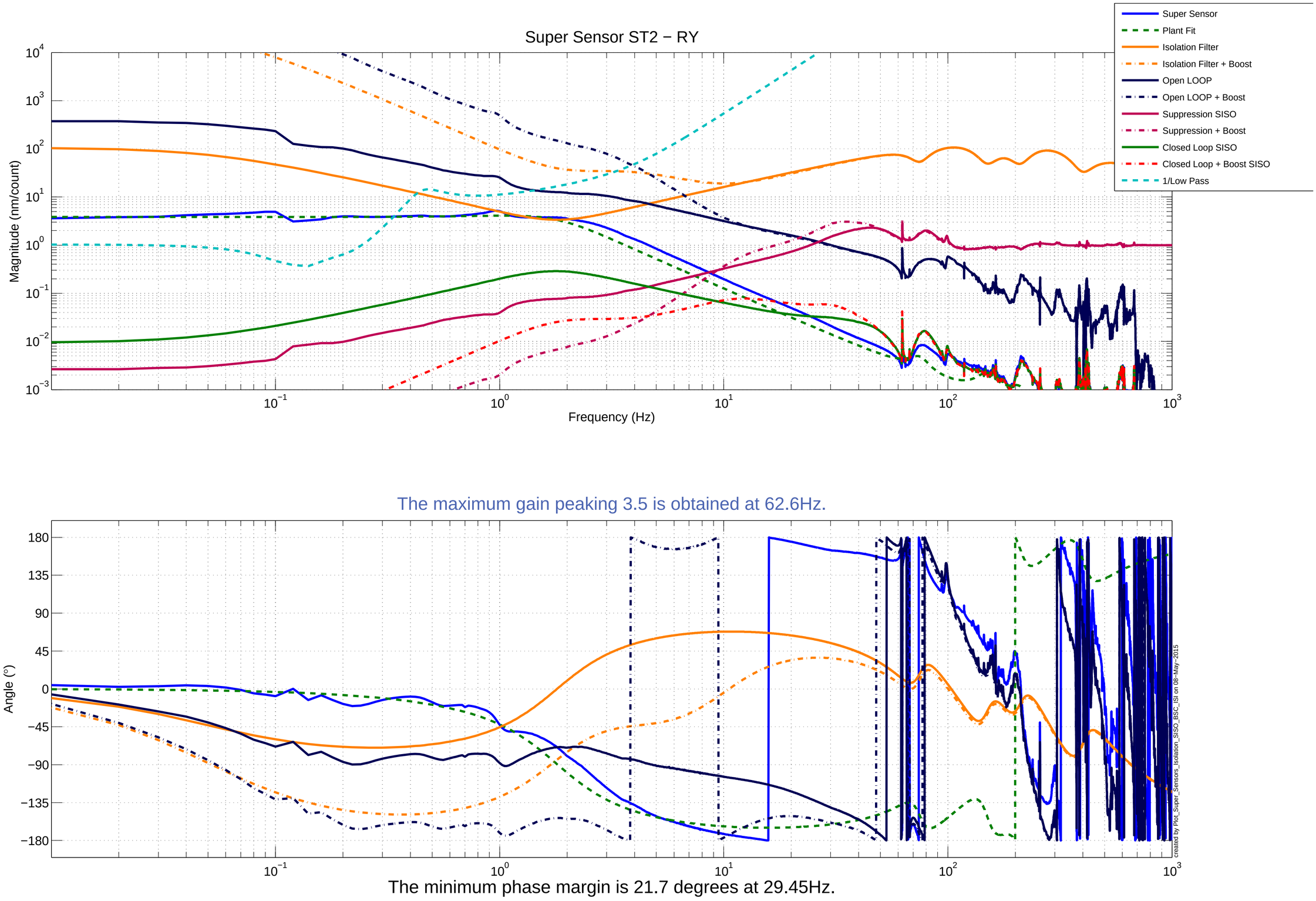

Super Sensor ST2 − X
Magnitude (nm/count)
Frequency (Hz)
The maximum gain peaking 3.73 is obtained at 62.7Hz.
Angle (°)
The minimum phase margin is 28.8 degrees at 28.45Hz.
Super Sensor
Plant Fit
Isolation Filter
Isolation Filter + Boost
Open LOOP
Open LOOP + Boost
Suppression SISO
Suppression + Boost
Closed Loop SISO
Closed Loop + Boost SISO
1/Low Pass
created by Plot_Super_Sensors_Isolation_SISO_BSC_ISI on 08−May−2015


Super Sensor ST2 − Y
Magnitude (nm/count)
Frequency (Hz)
The maximum gain peaking 3.15 is obtained at 38.6Hz.
Angle (°)
The minimum phase margin is 22.1 degrees at 28.75Hz.
Super Sensor
Plant Fit
Isolation Filter
Isolation Filter + Boost
Open LOOP
Open LOOP + Boost
Suppression SISO
Suppression + Boost
Closed Loop SISO
Closed Loop + Boost SISO
1/Low Pass
created by Plot_Super_Sensors_Isolation_SISO_BSC_ISI on 08−May−2015


Super Sensor ST2 − RZ
Magnitude (nm/count)
Frequency (Hz)
The maximum gain peaking 4.41 is obtained at 60Hz.
Angle (°)
The minimum phase margin is 23.2 degrees at 38.95Hz.
Super Sensor
Plant Fit
Isolation Filter
Isolation Filter + Boost
Open LOOP
Open LOOP + Boost
Suppression SISO
Suppression + Boost
Closed Loop SISO
Closed Loop + Boost SISO
1/Low Pass
created by Plot_Super_Sensors_Isolation_SISO_BSC_ISI on 08−May−2015


Super Sensor ST2 − Z
Magnitude (nm/count)
Frequency (Hz)
The maximum gain peaking 3.68 is obtained at 42.9Hz.
Angle (°)
The minimum phase margin is 21.8 degrees at 34.35Hz.
Super Sensor
Plant Fit
Isolation Filter
Isolation Filter + Boost
Open LOOP
Open LOOP + Boost
Suppression SISO
Suppression + Boost
Closed Loop SISO
Closed Loop + Boost SISO
1/Low Pass
created by Plot_Super_Sensors_Isolation_SISO_BSC_ISI on 08−May−2015


Super Sensor ST2 − RX
Magnitude (nm/count)
Frequency (Hz)
Super Sensor
Plant Fit
Isolation Filter
Isolation Filter + Boost
Open LOOP
Open LOOP + Boost
Suppression SISO
Suppression + Boost
Closed Loop SISO
Closed Loop + Boost SISO
1/Low Pass
The maximum gain peaking 3.29 is obtained at 38.7Hz.
Angle (°)
The minimum phase margin is 21 degrees at 29.35Hz.
created by Plot_Super_Sensors_Isolation_SISO_BSC_ISI on 08−May−2015


Super Sensor ST2 − RY
Magnitude (nm/count)
Frequency (Hz)
Super Sensor
Plant Fit
Isolation Filter
Isolation Filter + Boost
Open LOOP
Open LOOP + Boost
Suppression SISO
Suppression + Boost
Closed Loop SISO
Closed Loop + Boost SISO
1/Low Pass
The maximum gain peaking 3.5 is obtained at 62.6Hz.
Angle (°)
The minimum phase margin is 21.7 degrees at 29.45Hz.
created by Plot_Super_Sensors_Isolation_SISO_BSC_ISI on 08−May−2015