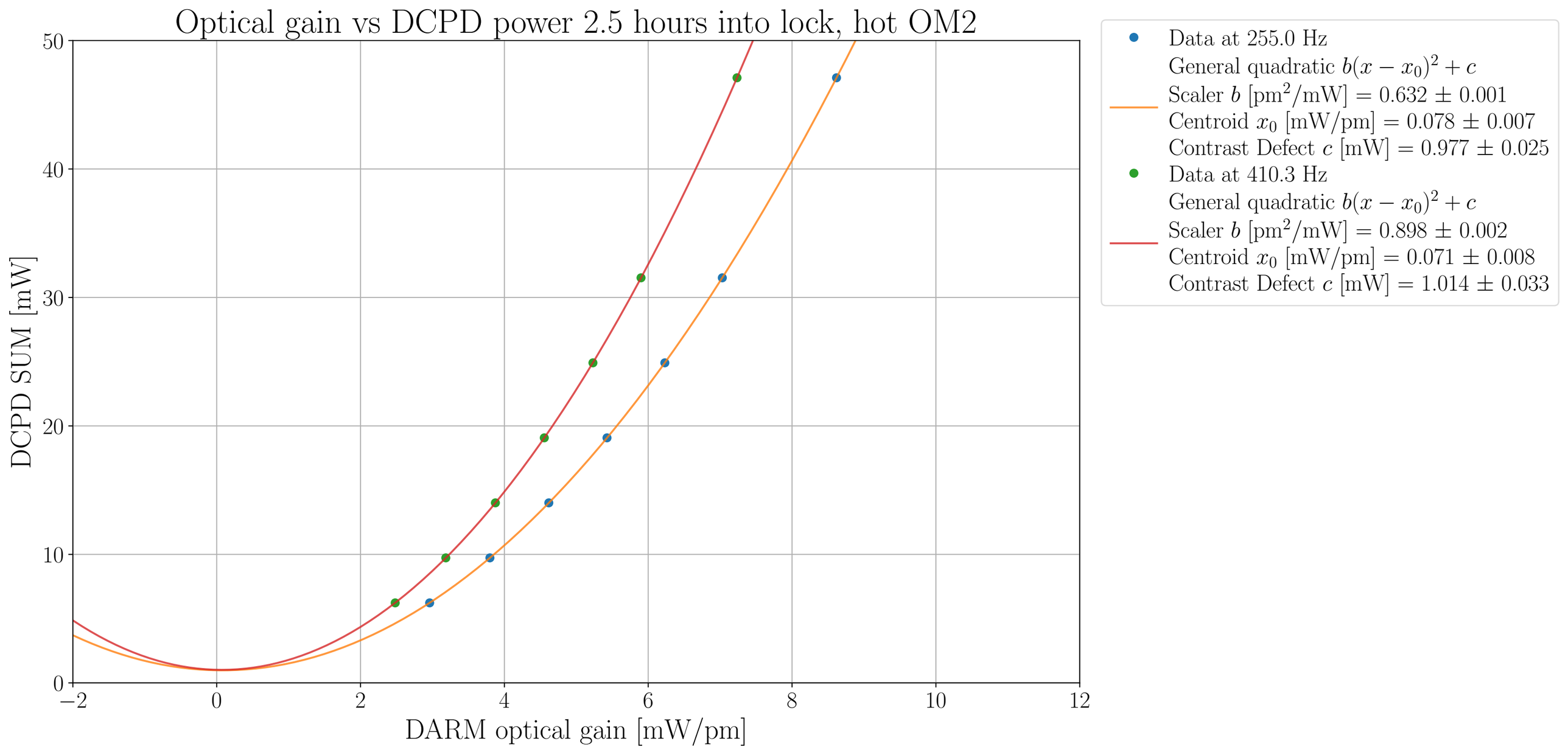
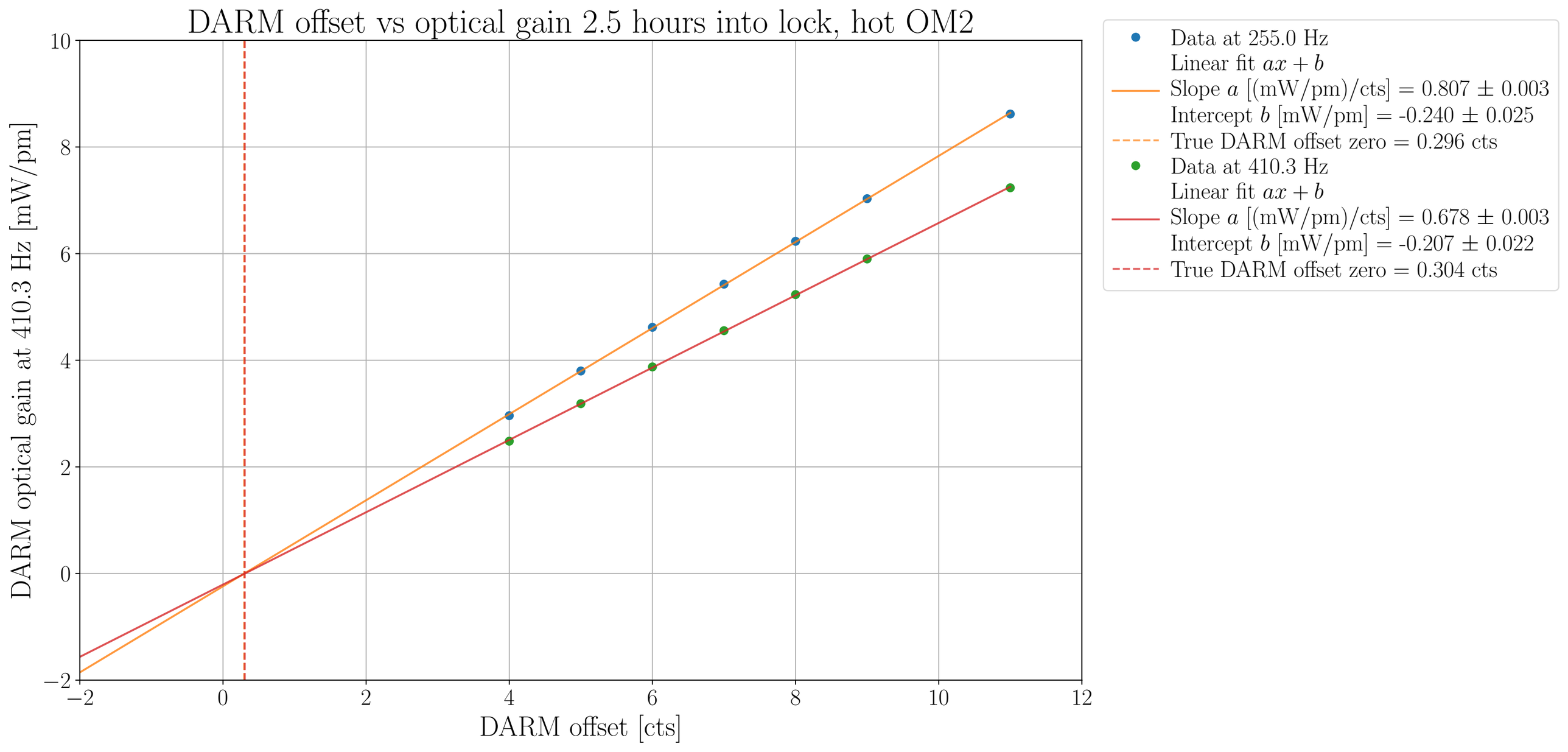

Optical gain vs DCPD power 2.5 hours into lock, hot OM2
DCPD SUM [mW]
DARM optical gain [mW/pm]
0
10
20
30
40
50
−2
0
2
4
6
8
10
12
Data at 255.0 Hz
General quadratic $b(x - x_0)^2 + c$
Scaler b [pm^2/mW] = 0.632 ± 0.001
Centroid x_0 [mW/pm] = 0.078 ± 0.007
Contrast Defect c [mW] = 0.977 ± 0.025
Data at 410.3 Hz
General quadratic $b(x - x_0)^2 + c$
Scaler b [pm^2/mW] = 0.898 ± 0.002
Centroid x_0 [mW/pm] = 0.071 ± 0.008
Contrast Defect c [mW] = 1.014 ± 0.033


DARM offset vs optical gain 2.5 hours into lock, hot OM2
DARM optical gain at 410.3 Hz [mW/pm]
DARM offset [cts]
10
8
6
4
2
0
−2
−2
0
2
4
6
8
10
12
Data at 255.0 Hz
Linear fit $ax + b$
Slope a [(mW/pm)/cts] = 0.807 ± 0.003
Intercept b [mW/pm] = -0.240 ± 0.025
True DARM offset zero = 0.296 cts
Data at 410.3 Hz
Linear fit $ax + b$
Slope a [(mW/pm)/cts] = 0.678 ± 0.003
Intercept b [mW/pm] = -0.207 ± 0.022
True DARM offset zero = 0.304 cts