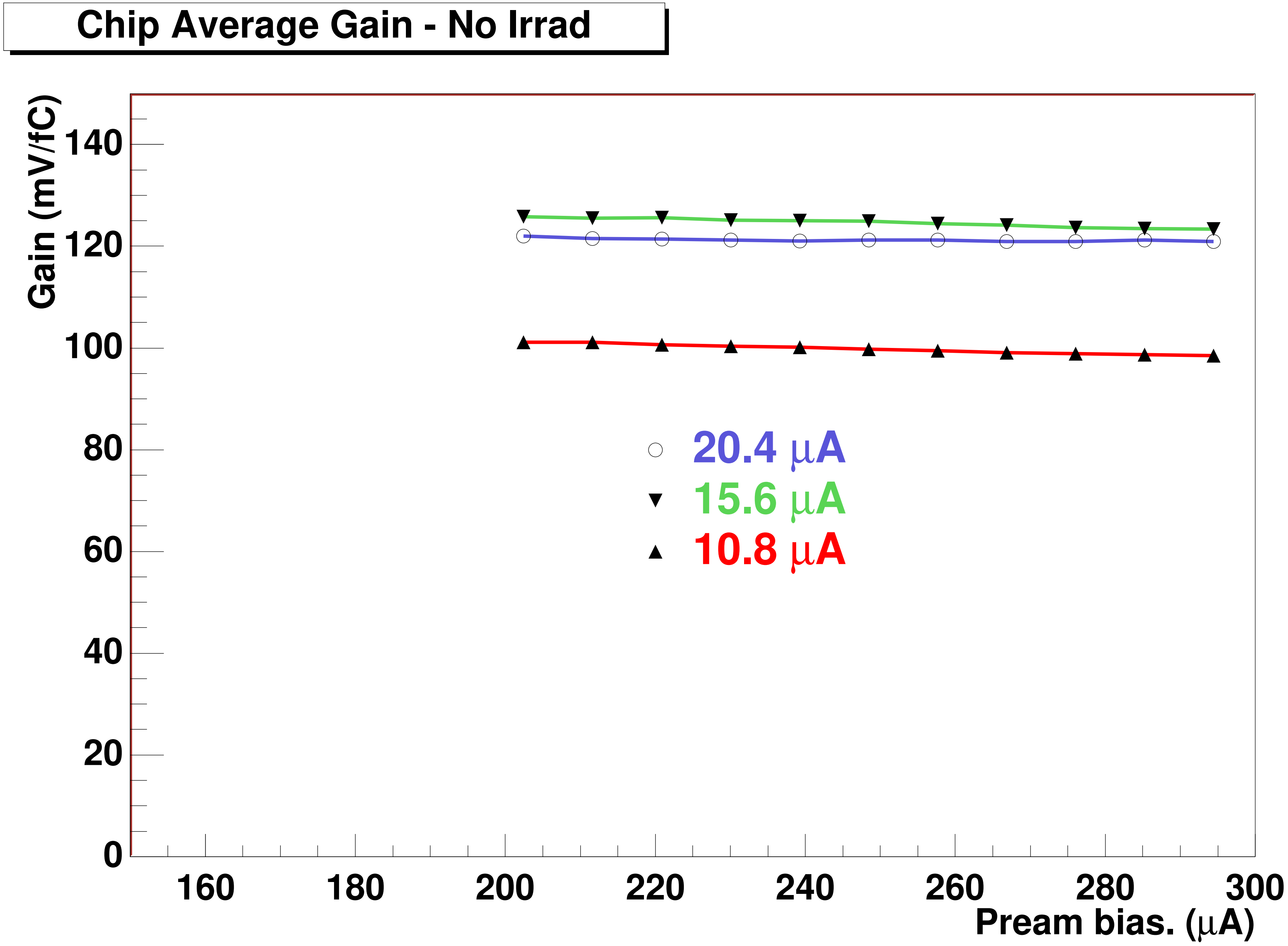
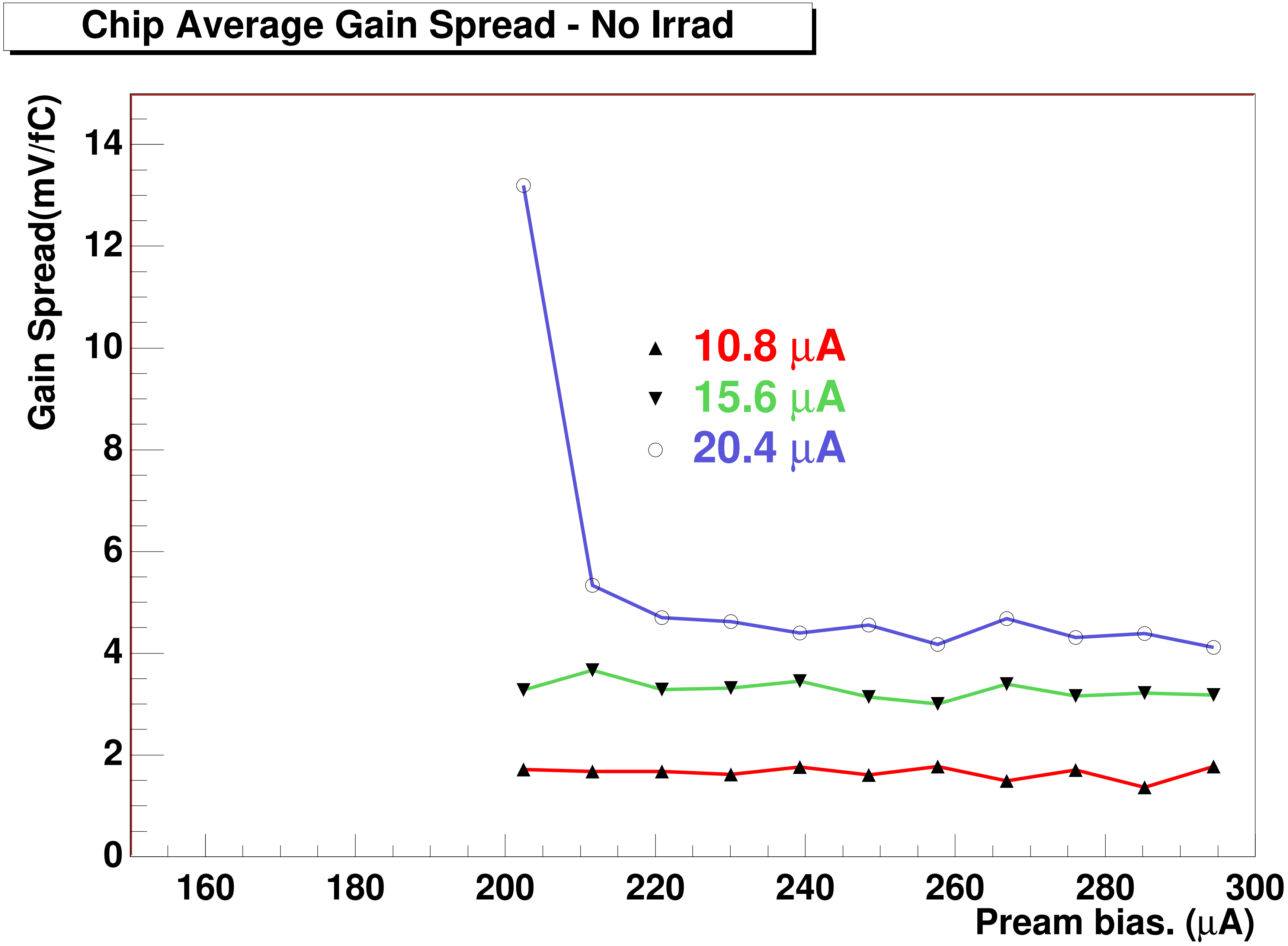
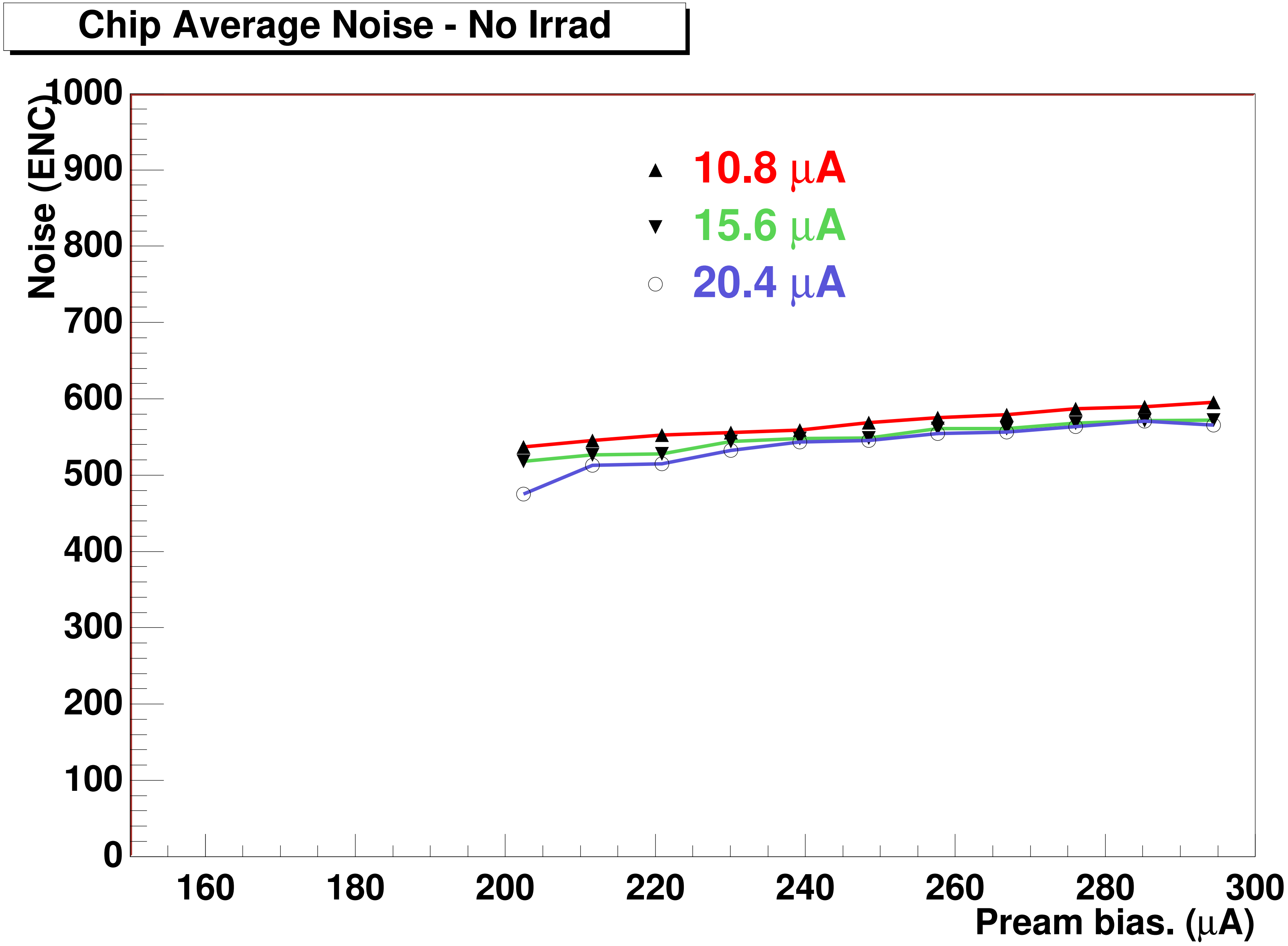


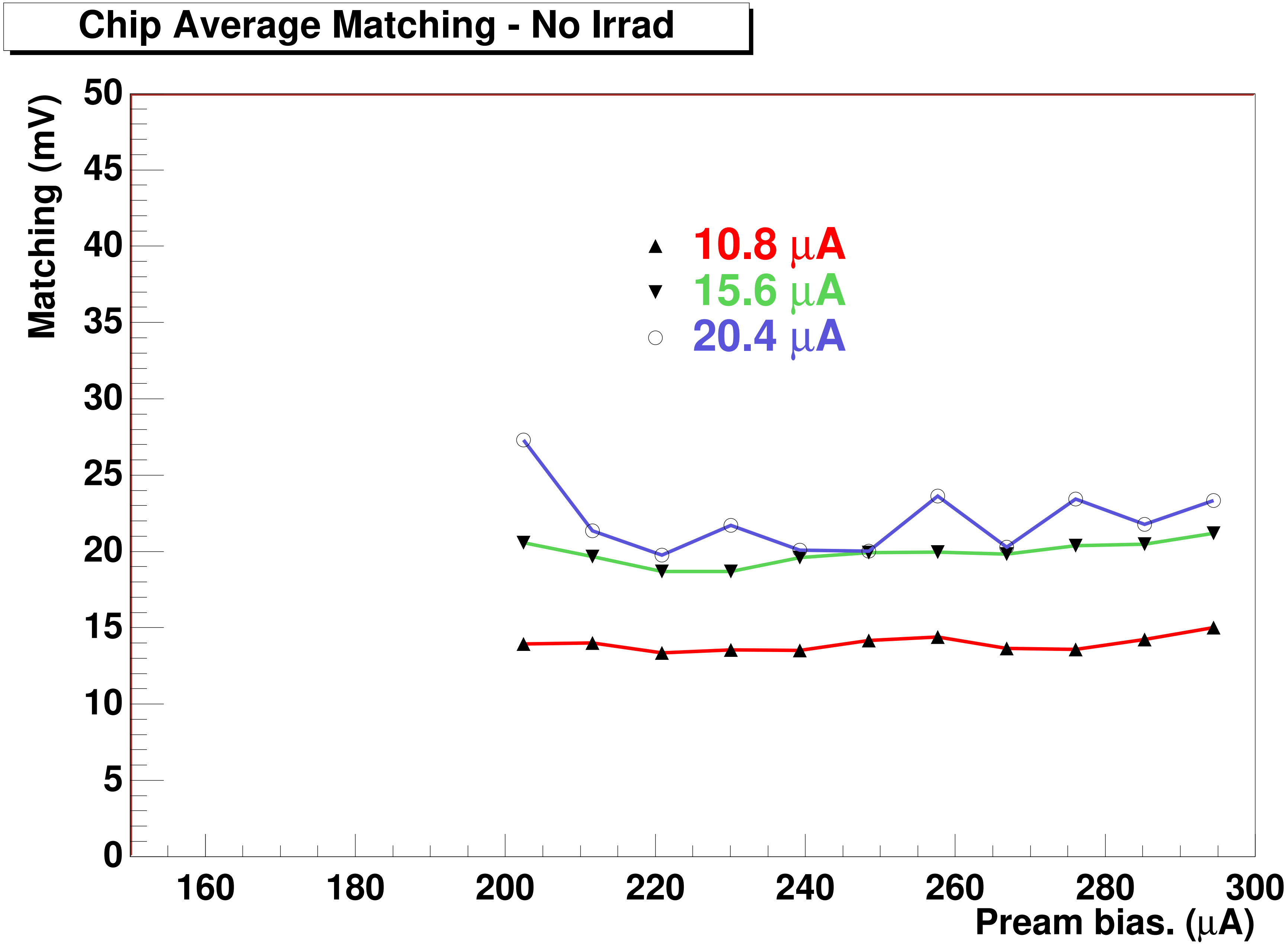
Chip Average Gain - No Irrad
Gain (mV/fC)
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
Pream bias. (μA)
20.4 μA
15.6 μA
10.8 μA



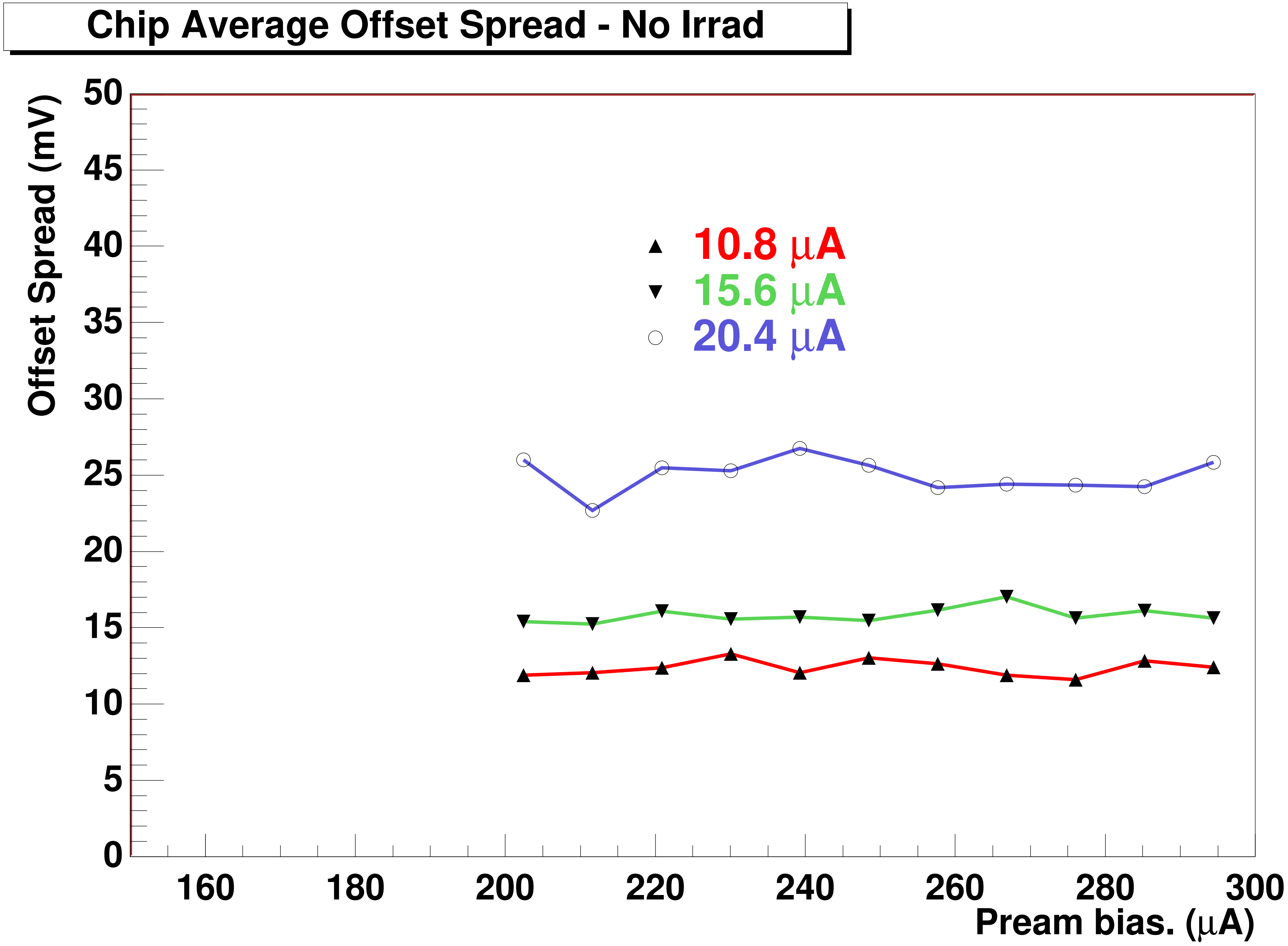
Chip Average Gain Spread - No Irrad
Gain Spread(mV/fC)
14
12
10
8
6
4
2
0
160
180
200
220
240
260
280
300
Pream bias. (μA)
10.8 μA
15.6 μA
20.4 μA



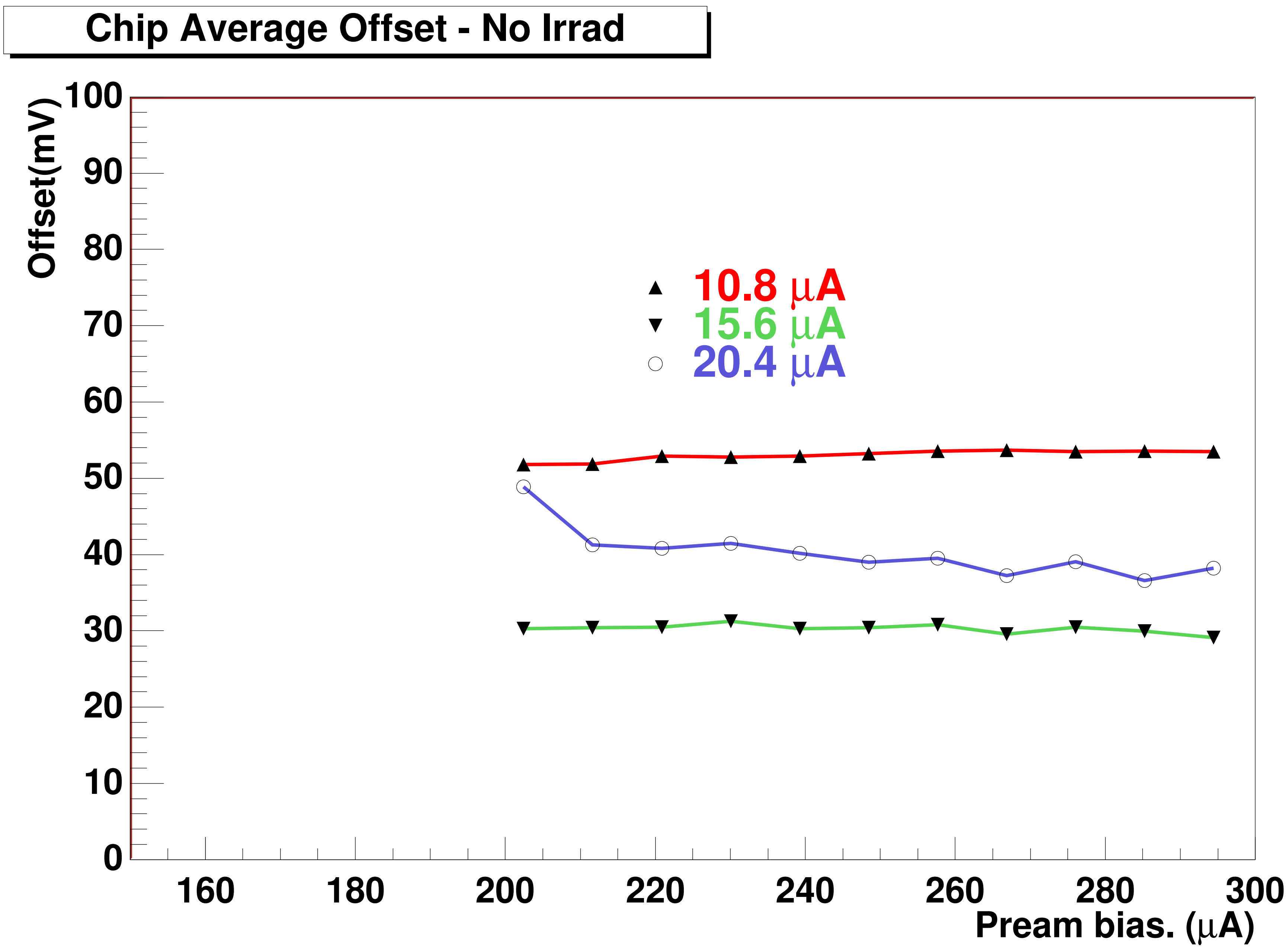
Chip Average Noise - No Irrad
Noise (ENC)
1000
900
800
700
600
500
400
300
200
100
0
10.8 μA
15.6 μA
20.4 μA
160
180
200
220
240
260
280
300
Pream bias. (μA)



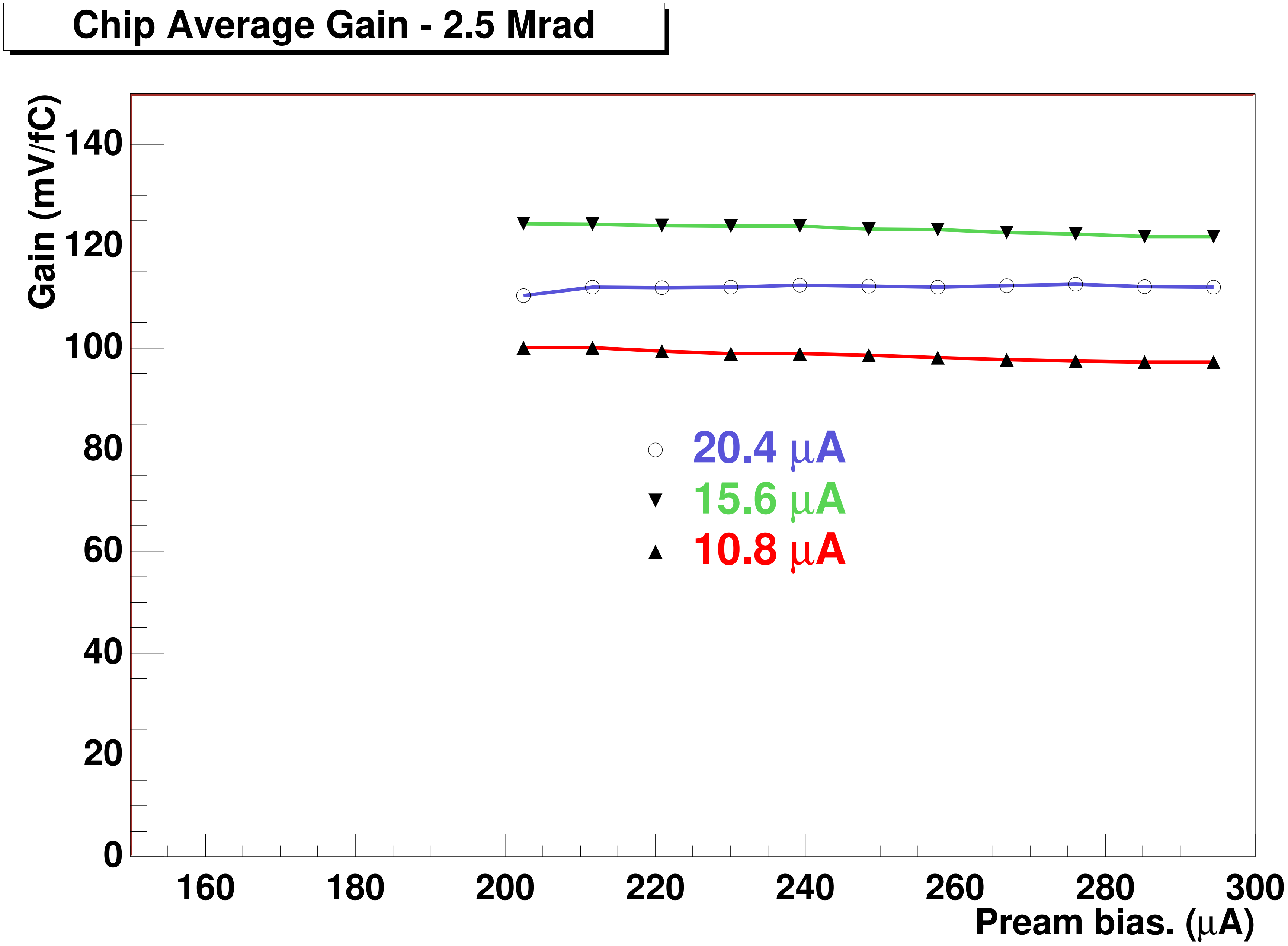
Chip Average Matching - No Irrad
Matching (mV)
50
45
40
35
30
25
20
15
10
5
0
160
180
200
220
240
260
280
300
Pream bias. (μA)
10.8 μA
15.6 μA
20.4 μA



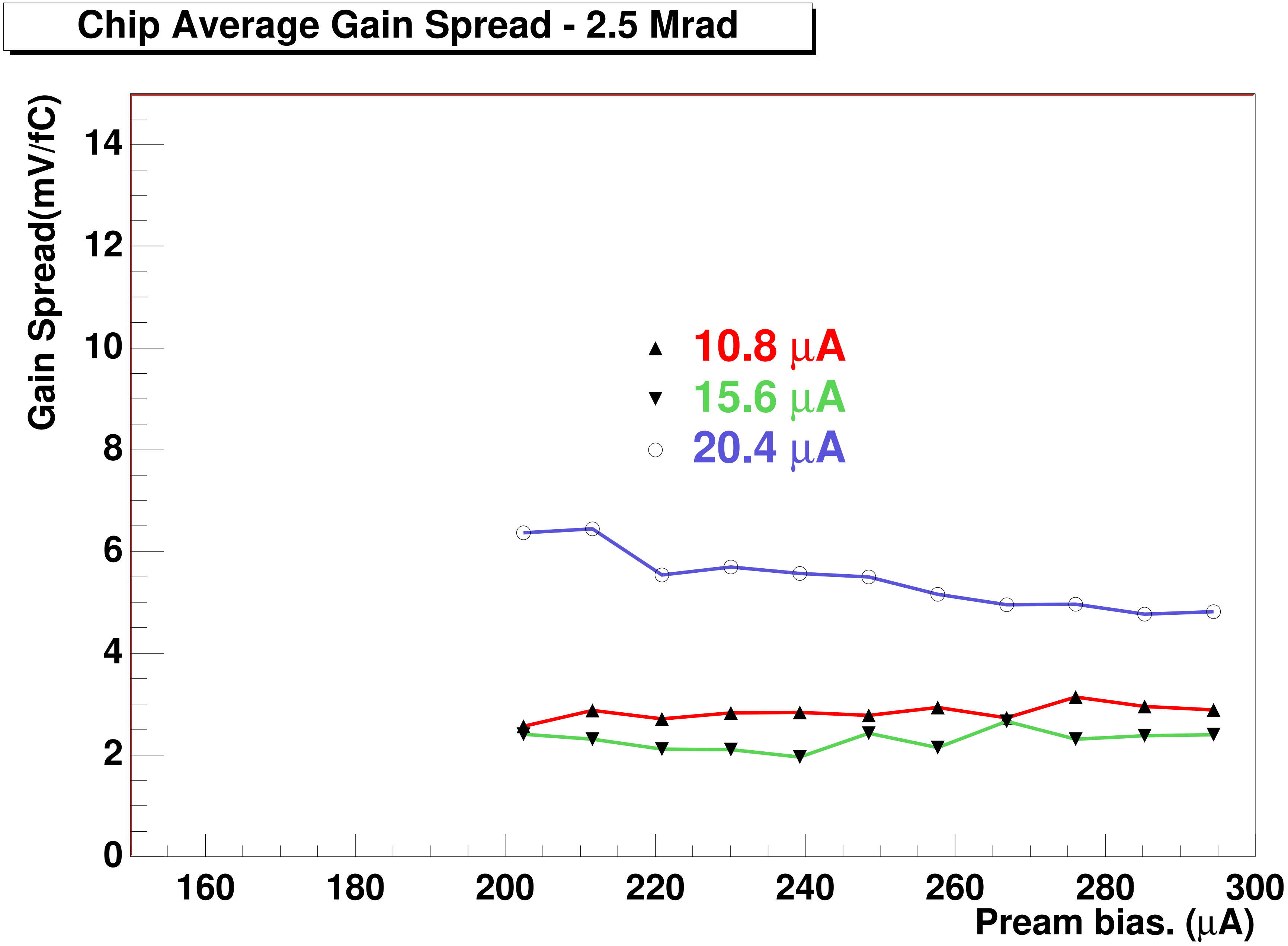
Chip Average Offset Spread - No Irrad
Offset Spread (mV)
0
5
10
15
20
25
30
35
40
45
50
160
180
200
220
240
260
280
300
Pream bias. (μA)
10.8 μA
15.6 μA
20.4 μA



Chip Average Offset - No Irrad
Offset(mV)
100
90
80
70
60
50
40
30
20
10
0
160
180
200
220
240
260
280
300
Ream bias. (μA)
10.8 μA
15.6 μA
20.4 μA

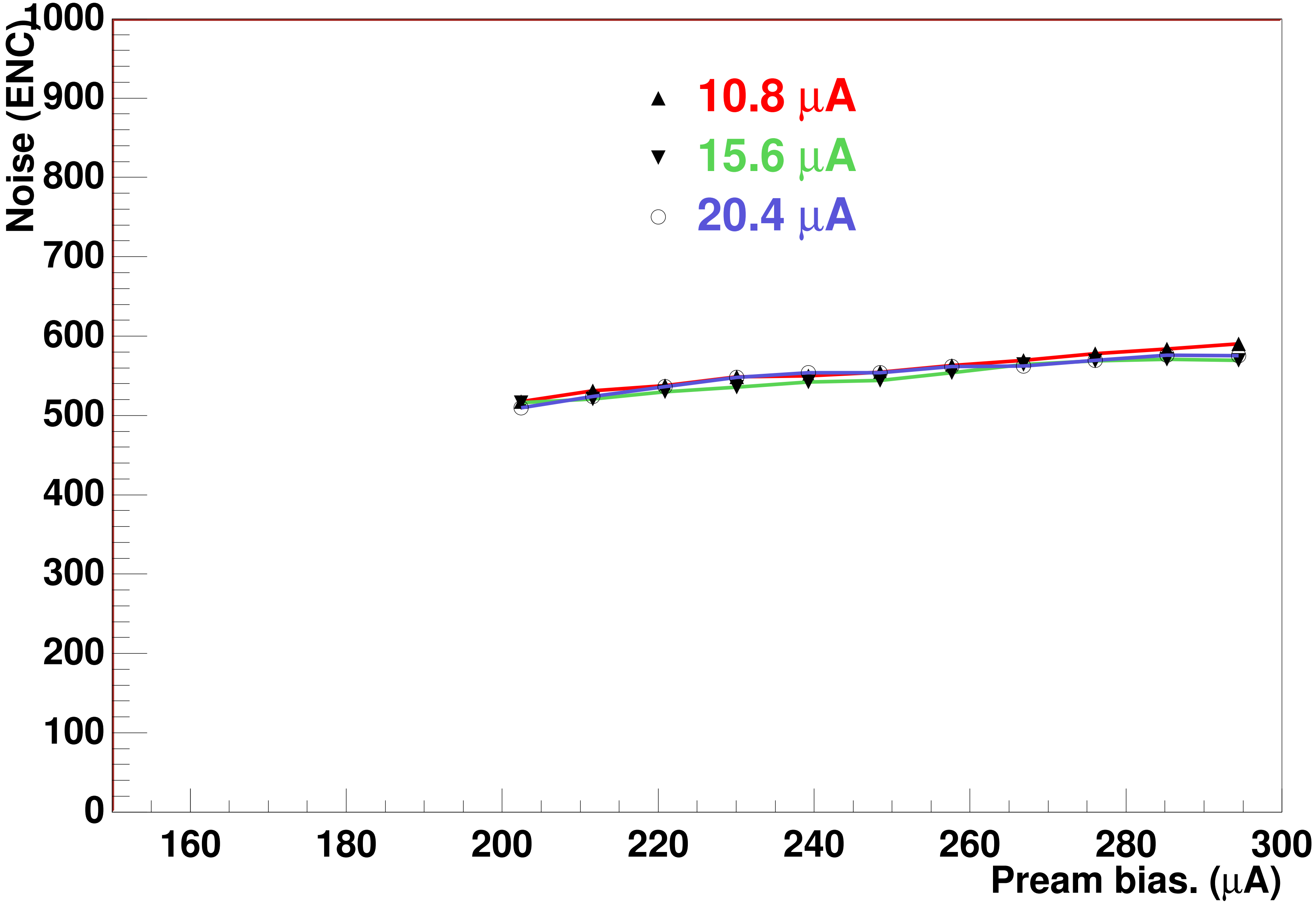


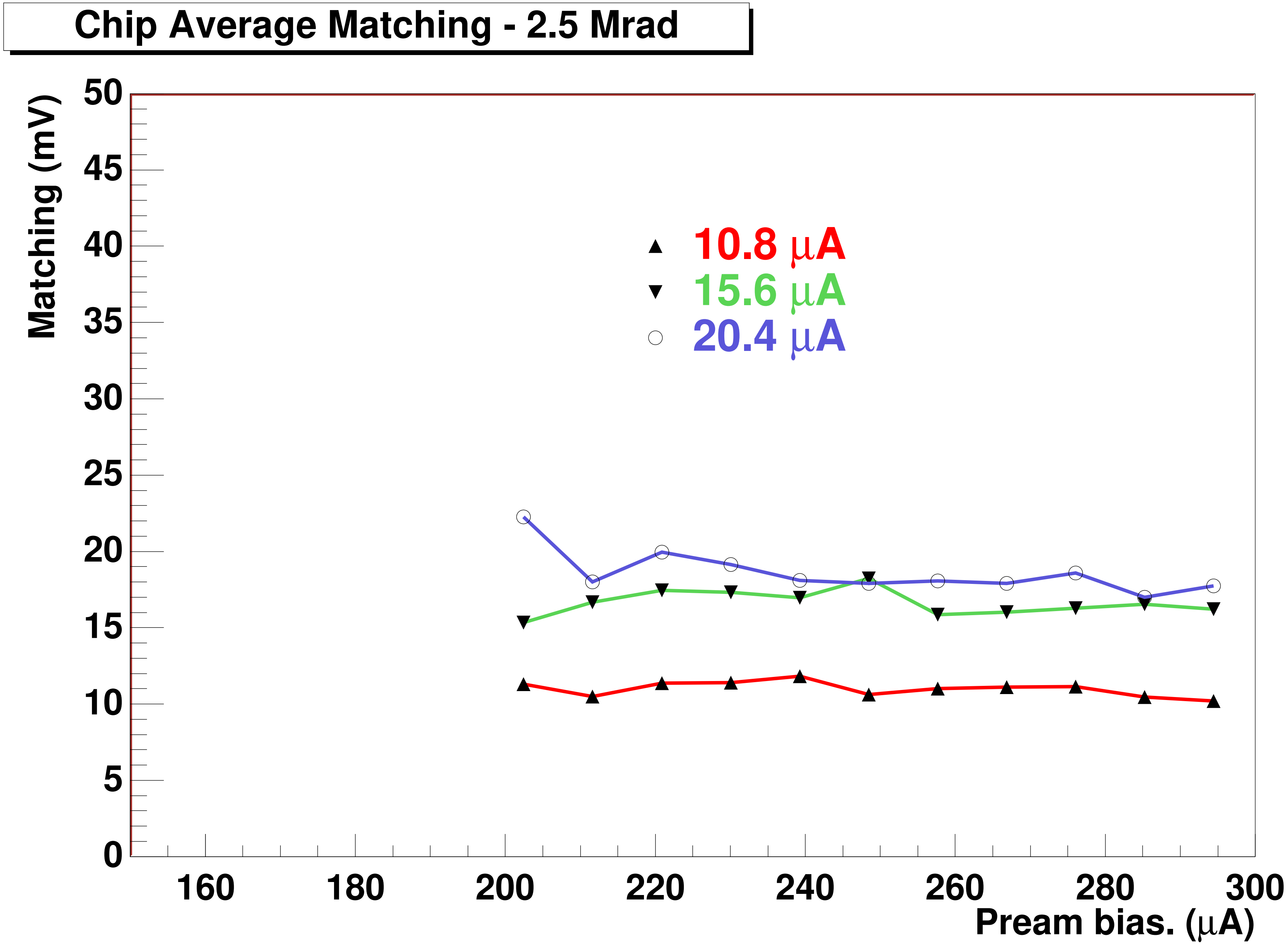
Chip Average Gain - 2.5 Mrad
Gain (mV/fC)
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
Pream bias. (μA)
20.4 μA
15.6 μA
10.8 μA

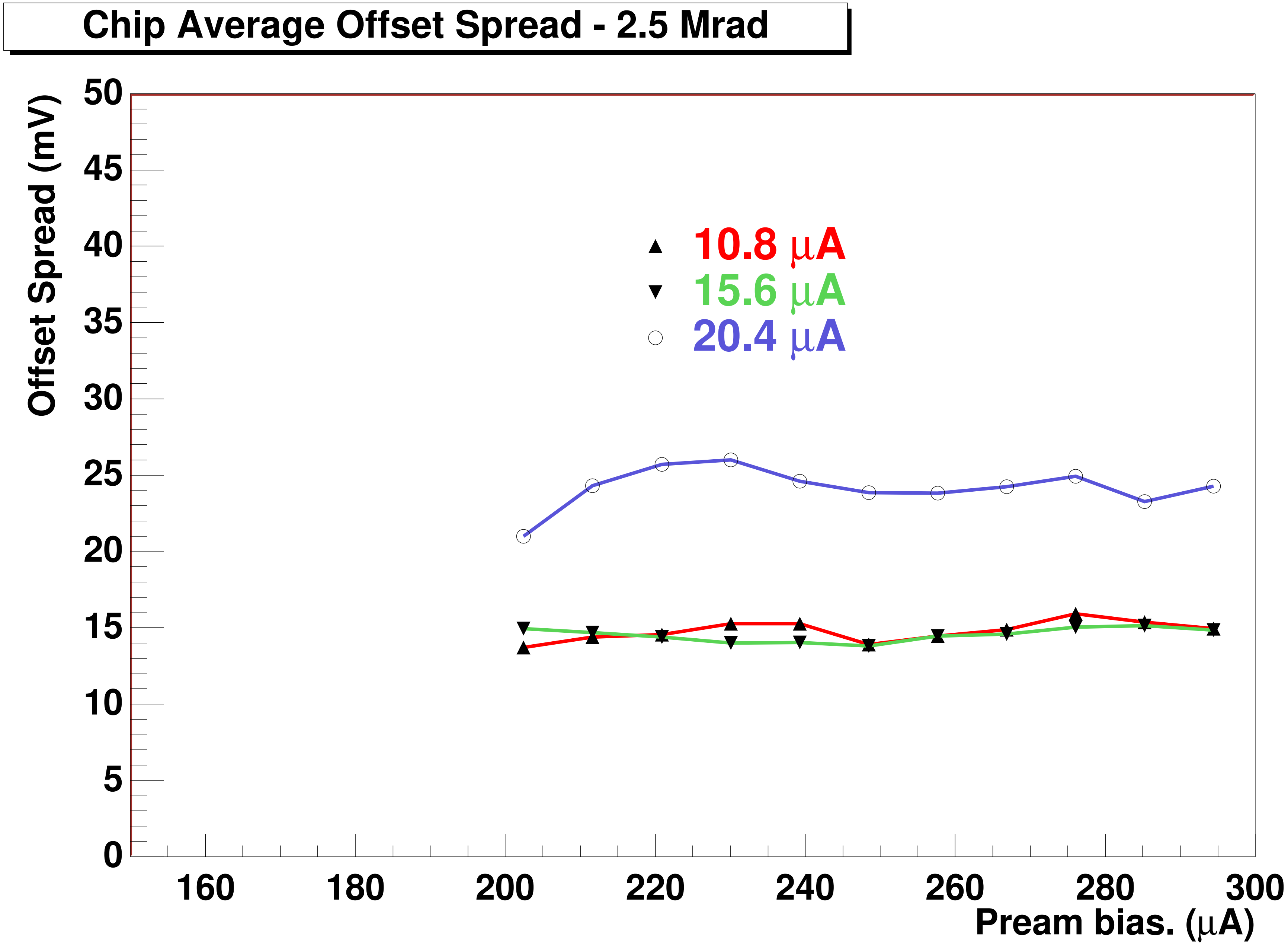


Chip Average Gain Spread - 2.5 Mrad
Gain Spread(mV/fC)
14
12
10
8
6
4
2
0
160
180
200
220
240
260
280
300
Pream bias. (μA)
10.8 μA
15.6 μA
20.4 μA

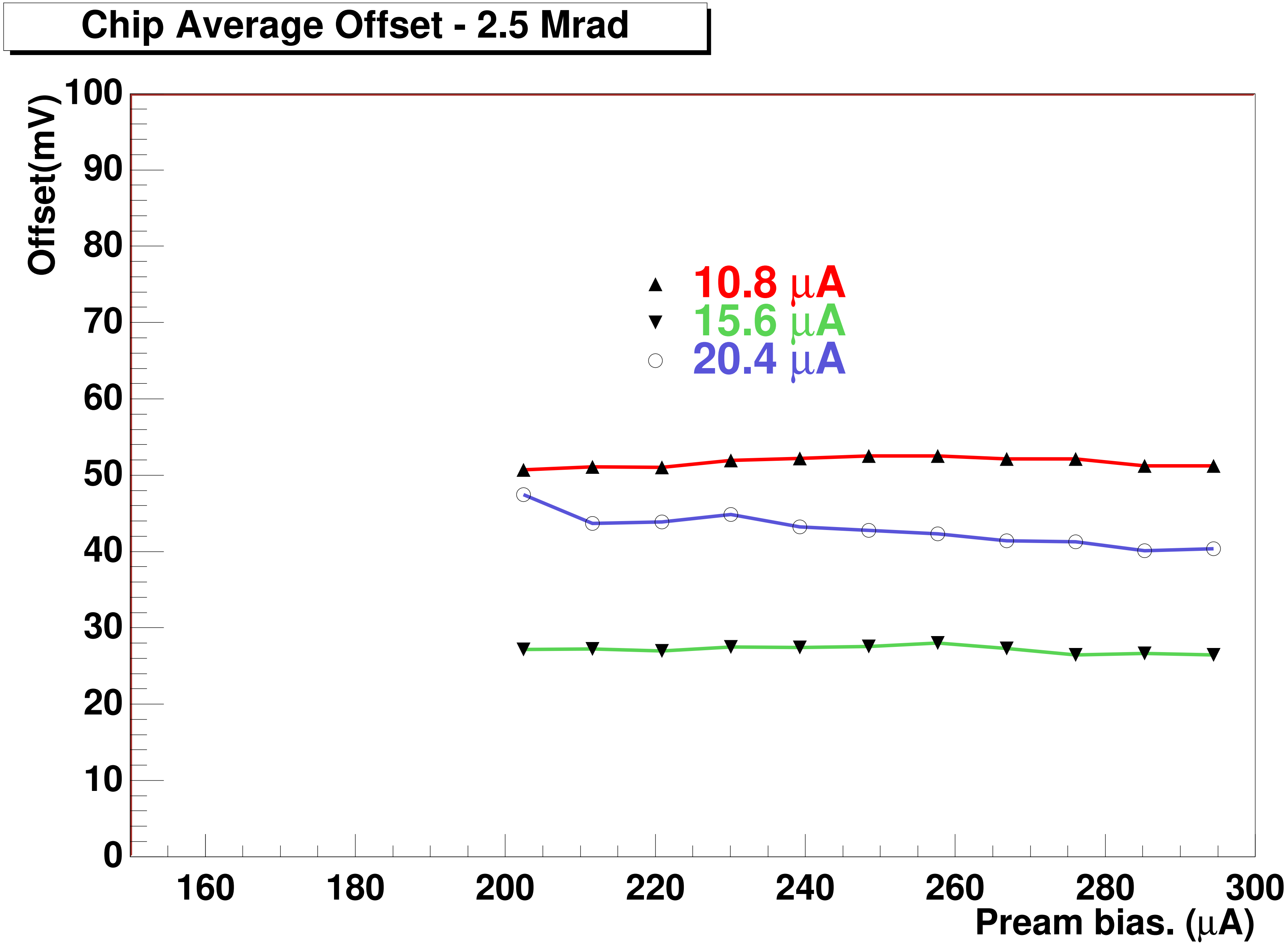
Chip Average Noise - 2.5 Mrad



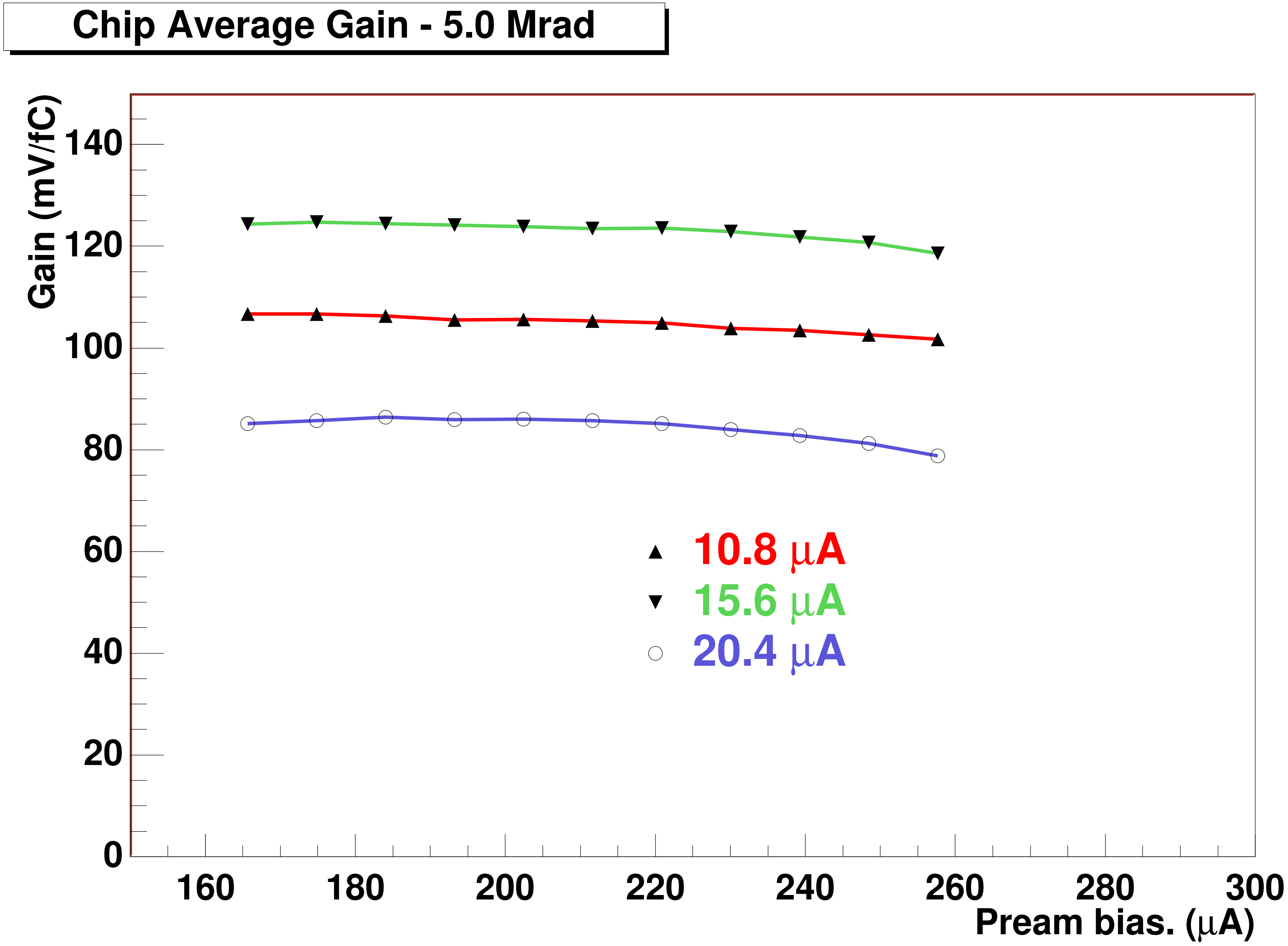

Chip Average Matching - 2.5 Mrad
Matching (mV)
10.8 μA
15.6 μA
20.4 μA
0
5
10
15
20
25
30
35
40
45
50
160
180
200
220
240
260
280
300
Pream bias. (μA)

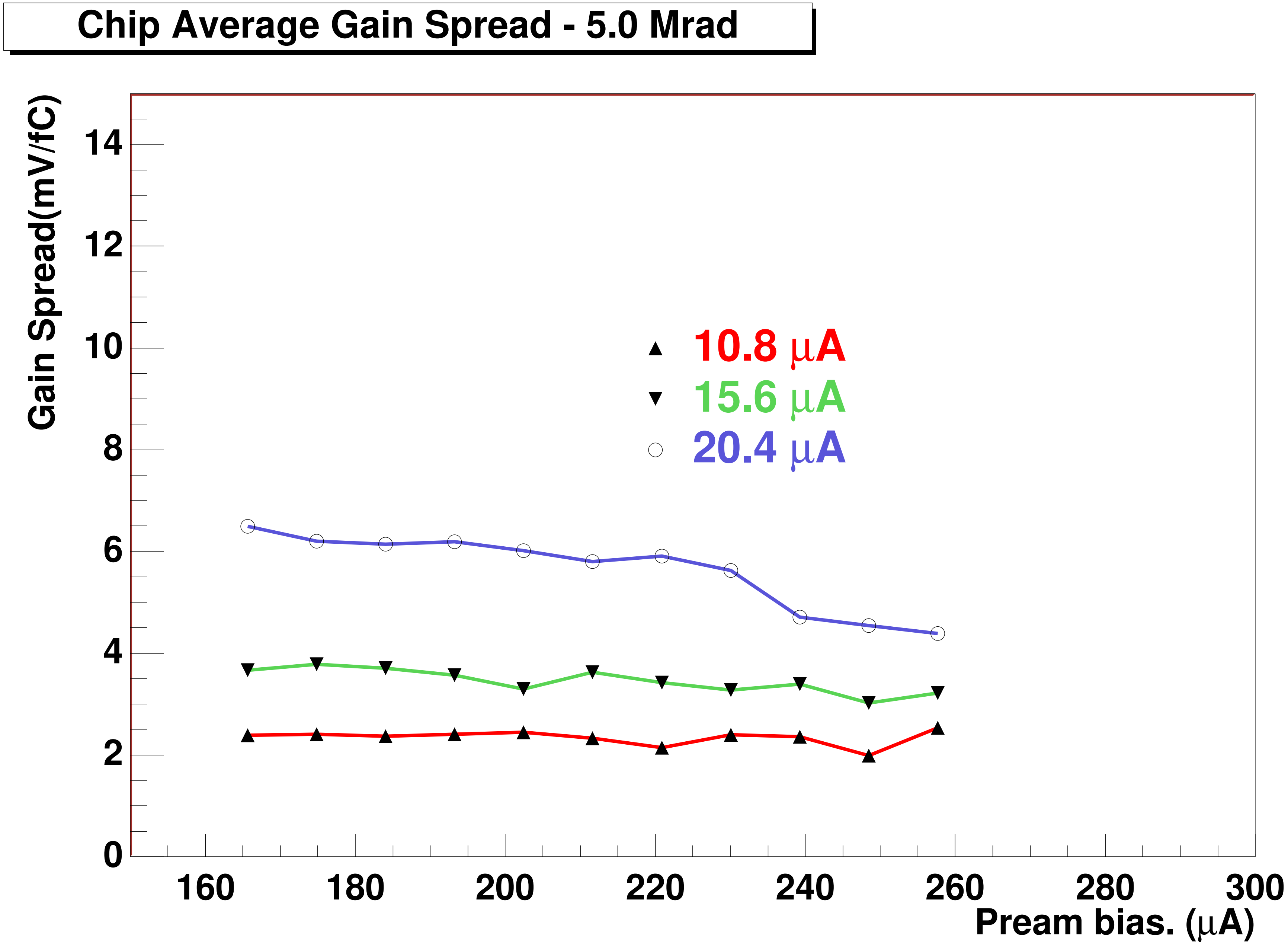


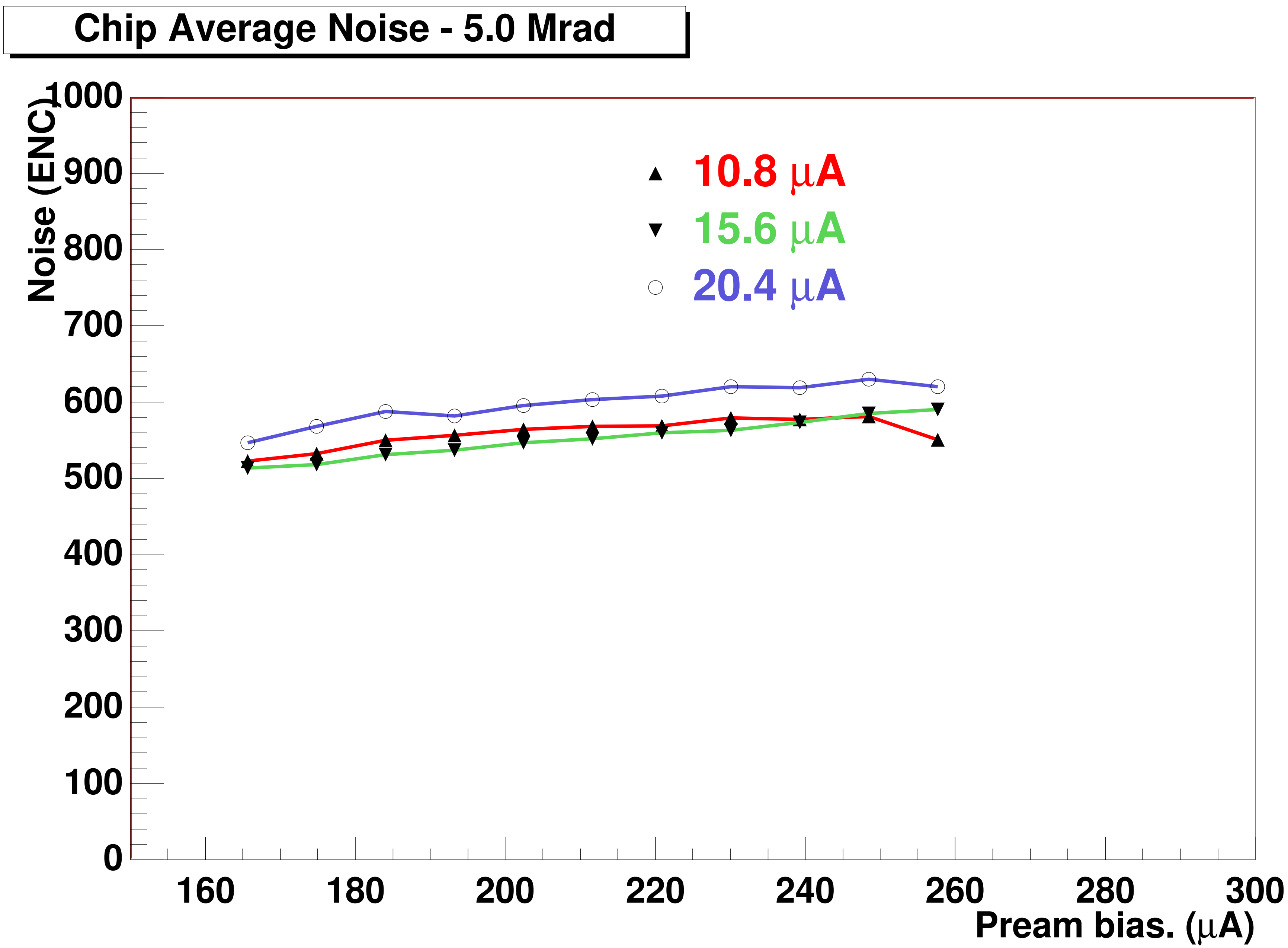
Chip Average Offset Spread - 2.5 Mrad
Offset Spread (mV)
Pream bias. (μA)
10.8 μA
15.6 μA
20.4 μA
0
5
10
15
20
25
30
35
40
45
50
160
180
200
220
240
260
280
300



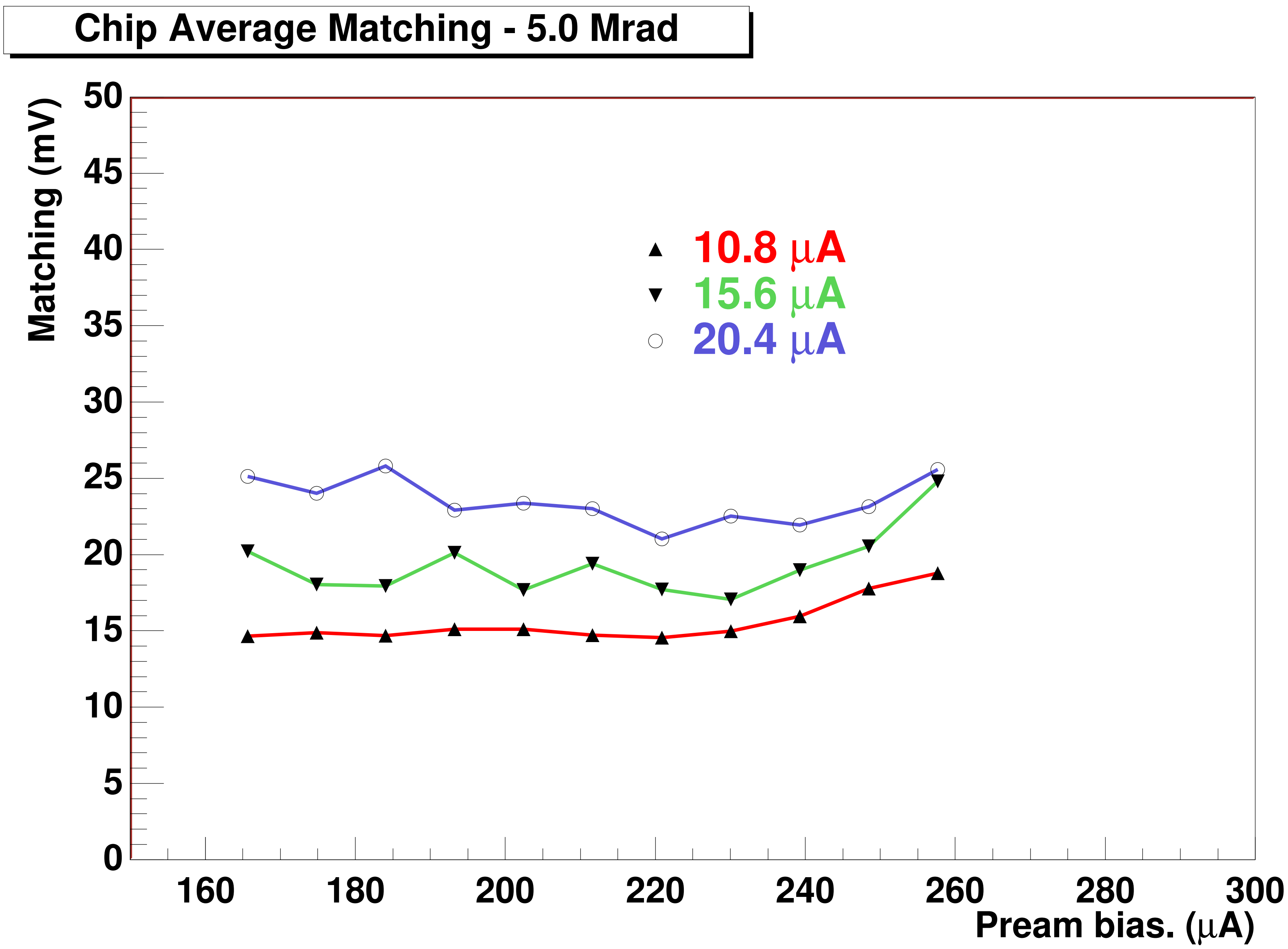
Chip Average Offset - 2.5 Mrad
Offset(mV)
100
90
80
70
60
50
40
30
20
10
0
160
180
200
220
240
260
280
300
Pream bias. (μA)
10.8 μA
15.6 μA
20.4 μA


Chip Average Gain - 5.0 Mrad
Gain (mV/fC)
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
Pream bias. (μA)
10.8 μA
15.6 μA
20.4 μA

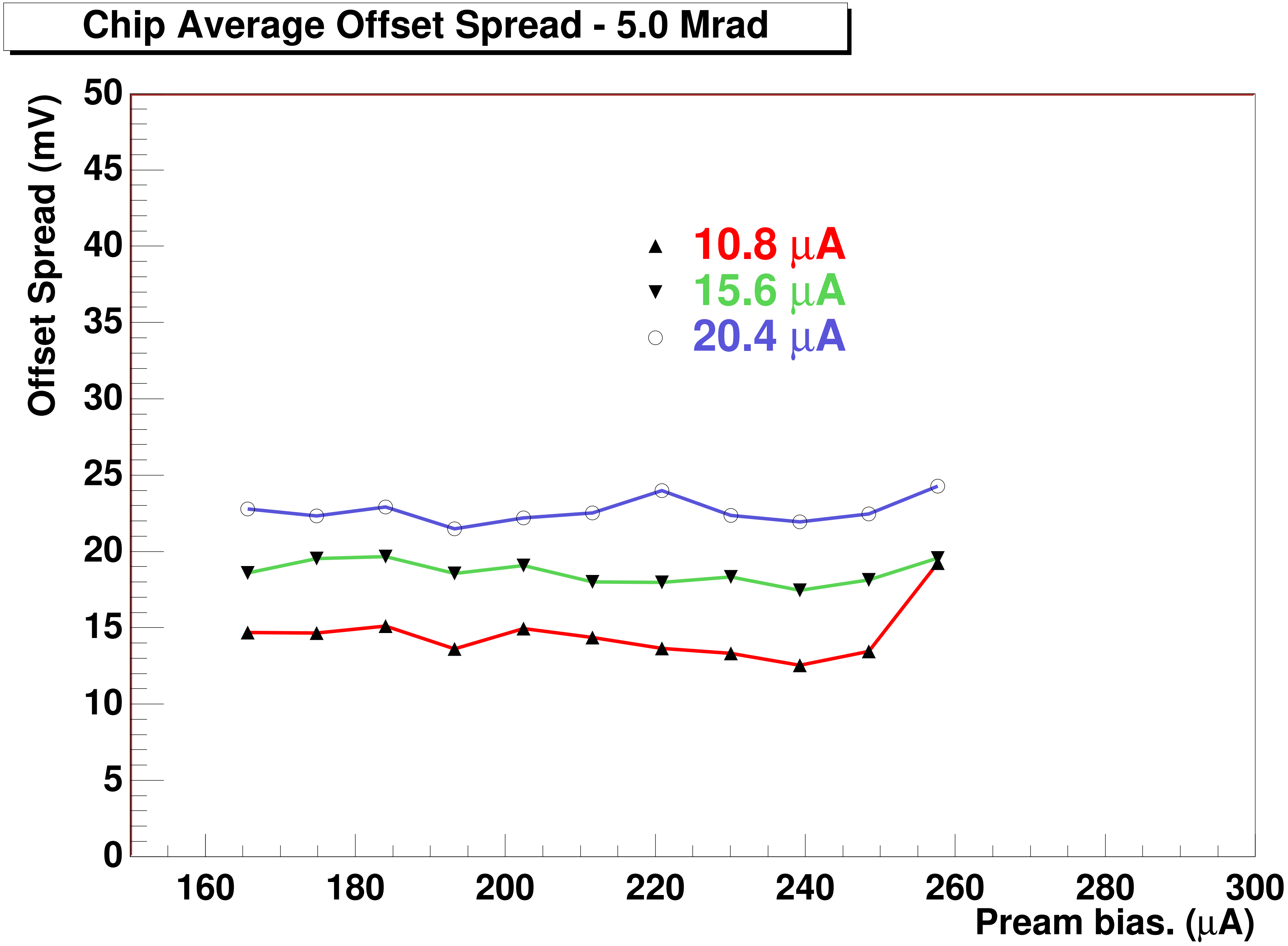

Chip Average Gain Spread - 5.0 Mrad
Gain Spread(mV/fC)
Pream bias. (μA)
10.8 μA
15.6 μA
20.4 μA
0
2
4
6
8
10
12
14
160
180
200
220
240
260
280
300



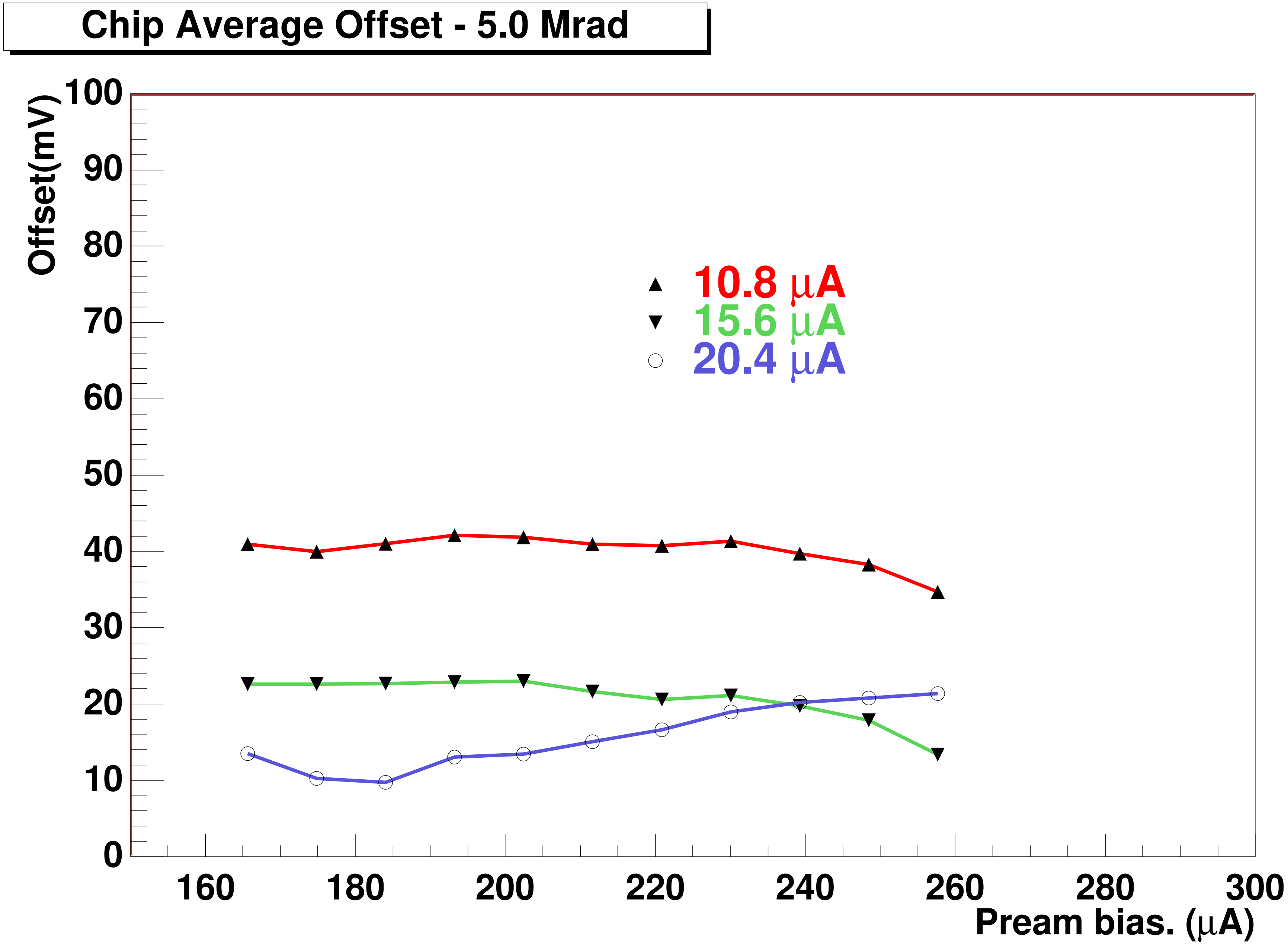
Chip Average Noise - 5.0 Mrad
Noise (ENC)
Pream bias. (μA)
10.8 μA
15.6 μA
20.4 μA
0
100
200
300
400
500
600
700
800
900
1000
160
180
200
220
240
260
280
300



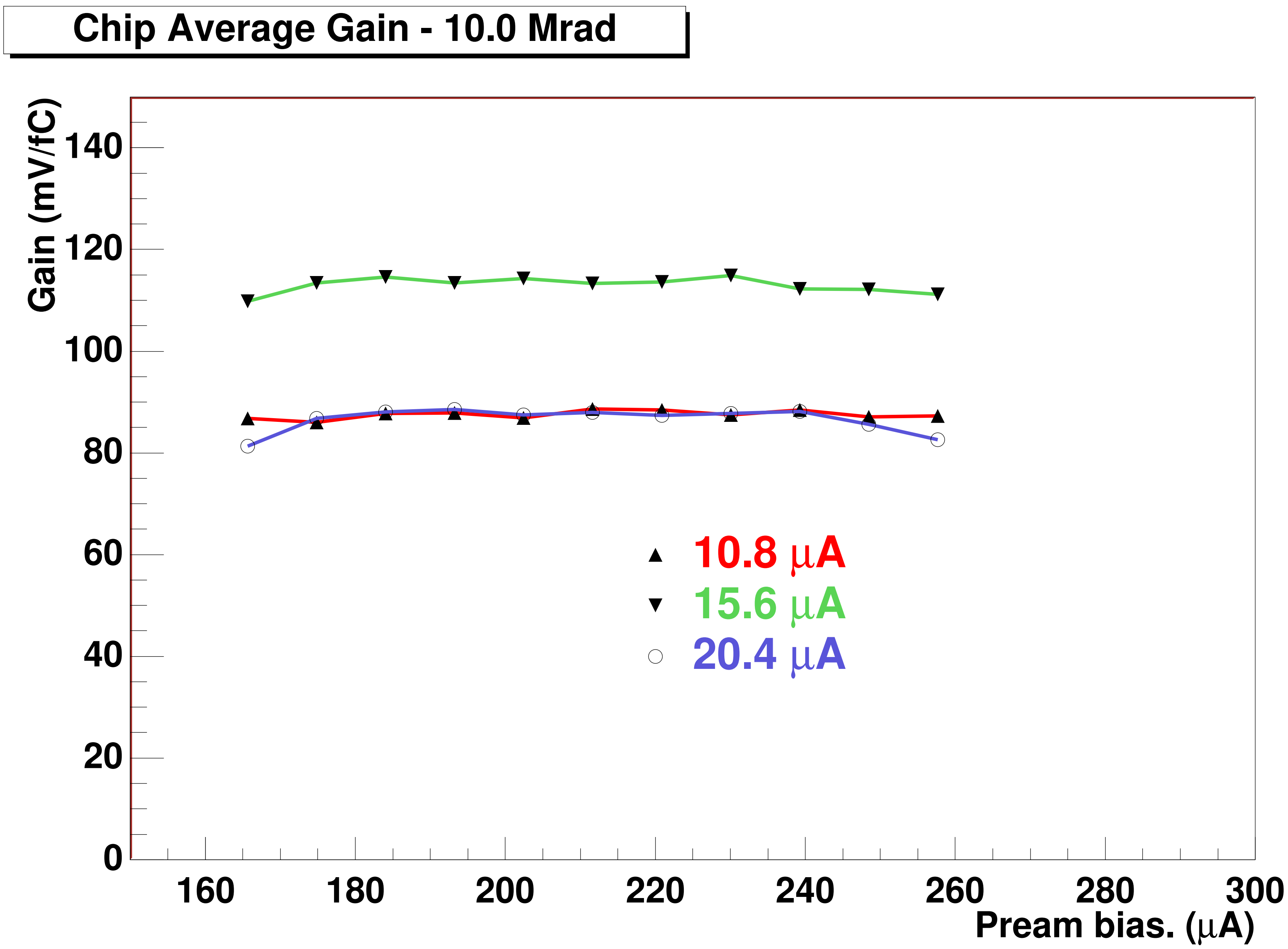
Chip Average Matching - 5.0 Mrad
Matching (mV)
50
45
40
35
30
25
20
15
10
5
0
10.8 μA
15.6 μA
20.4 μA
160
180
200
220
240
260
280
300
Pream bias. (μA)

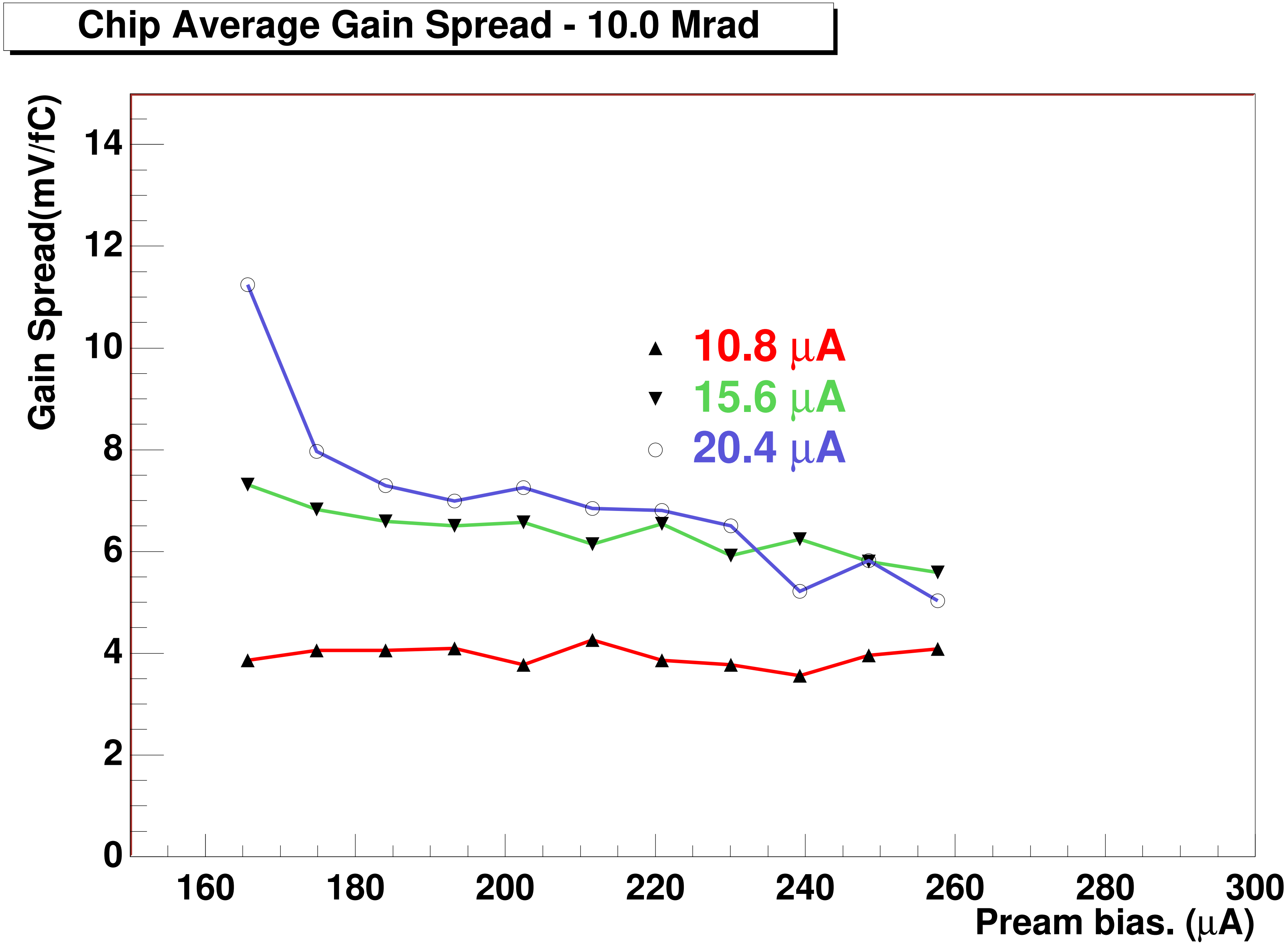


Chip Average Offset Spread - 5.0 Mrad
Offset Spread (mV)
0
5
10
15
20
25
30
35
40
45
50
160
180
200
220
240
260
280
300
Pream bias. (μA)
10.8 μA
15.6 μA
20.4 μA

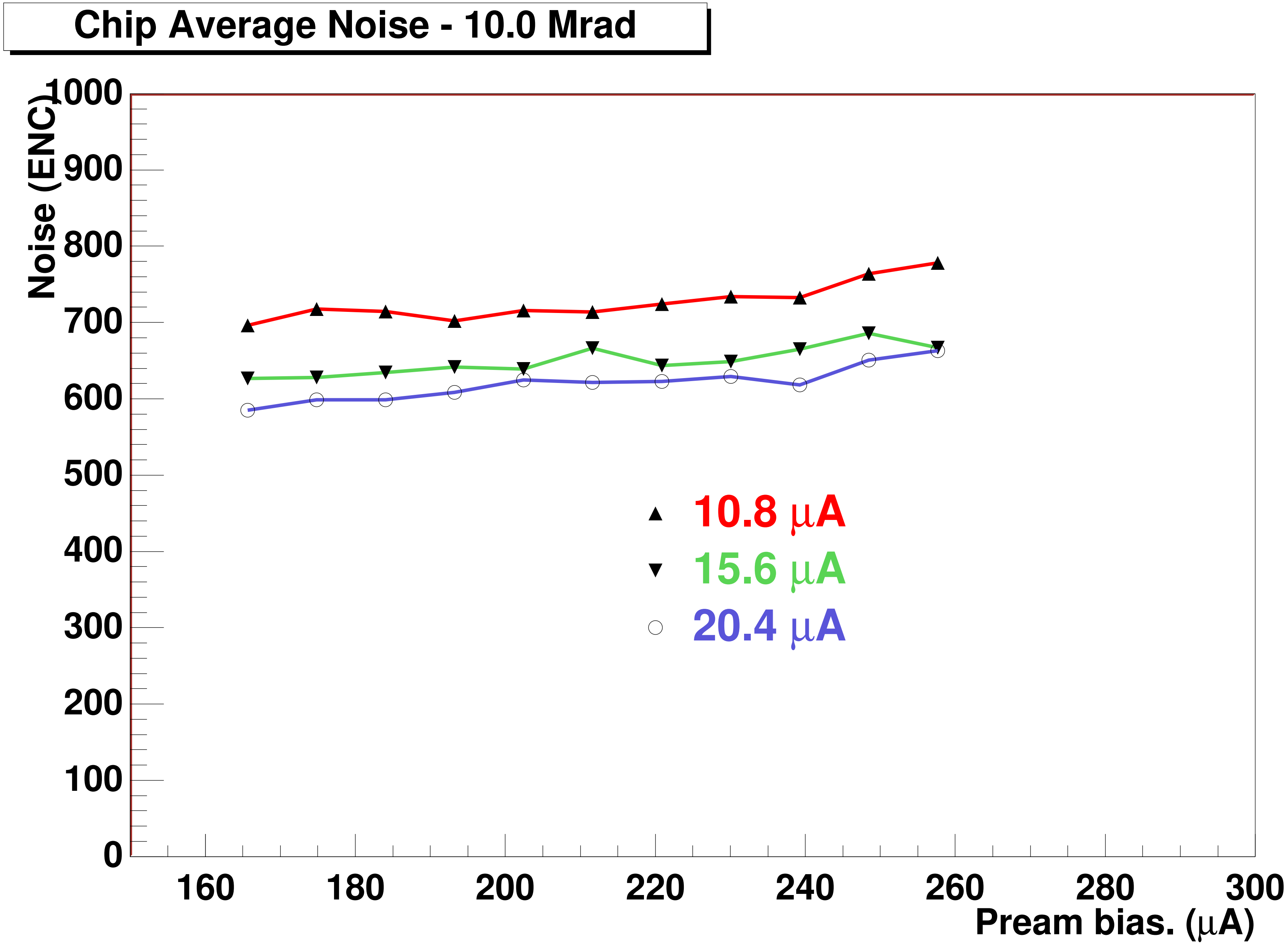


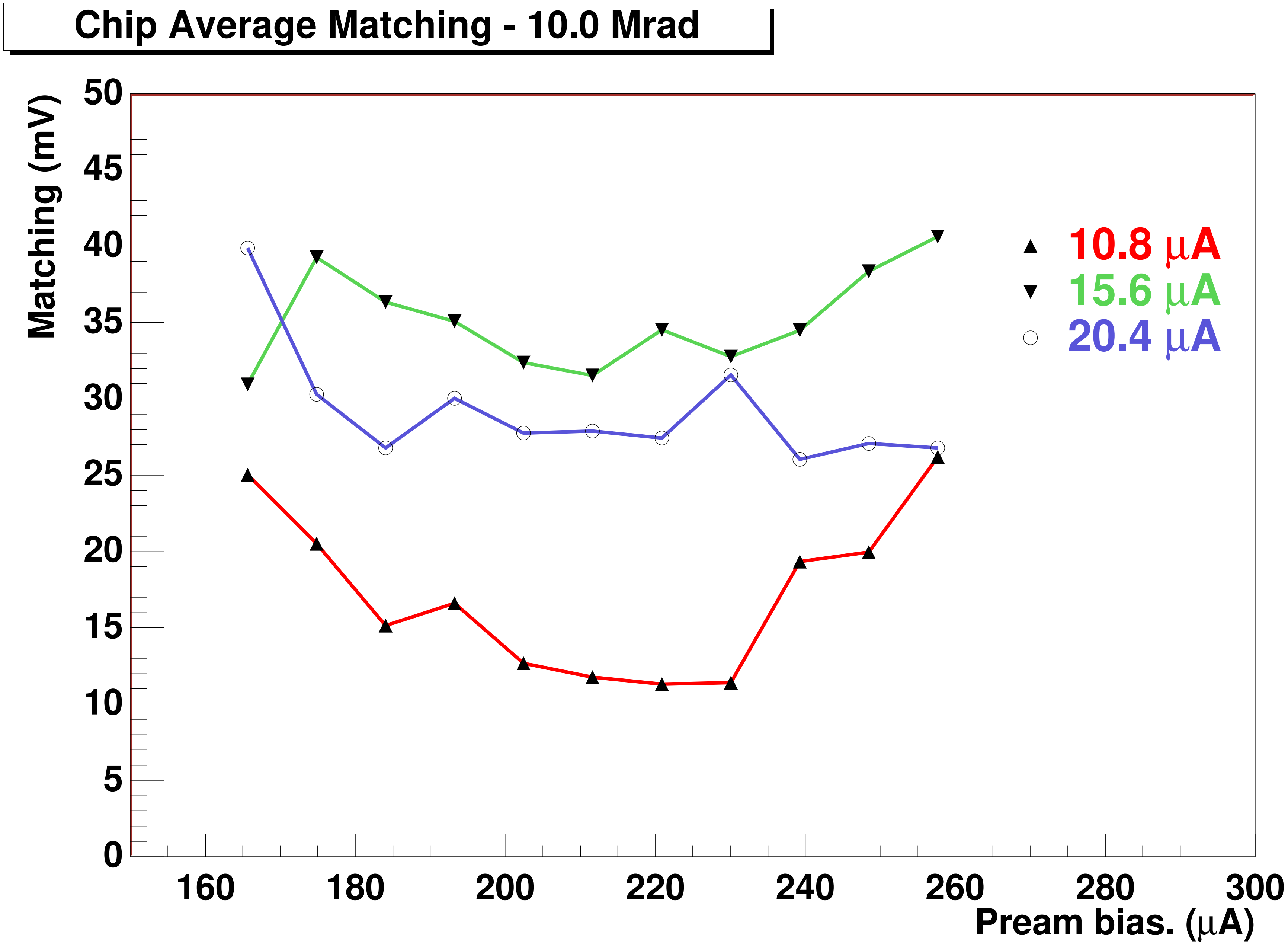
Chip Average Offset - 5.0 Mrad
Offset(mV)
100
90
80
70
60
50
40
30
20
10
0
160
180
200
220
240
260
280
300
Pream bias. (μA)
10.8 μA
15.6 μA
20.4 μA

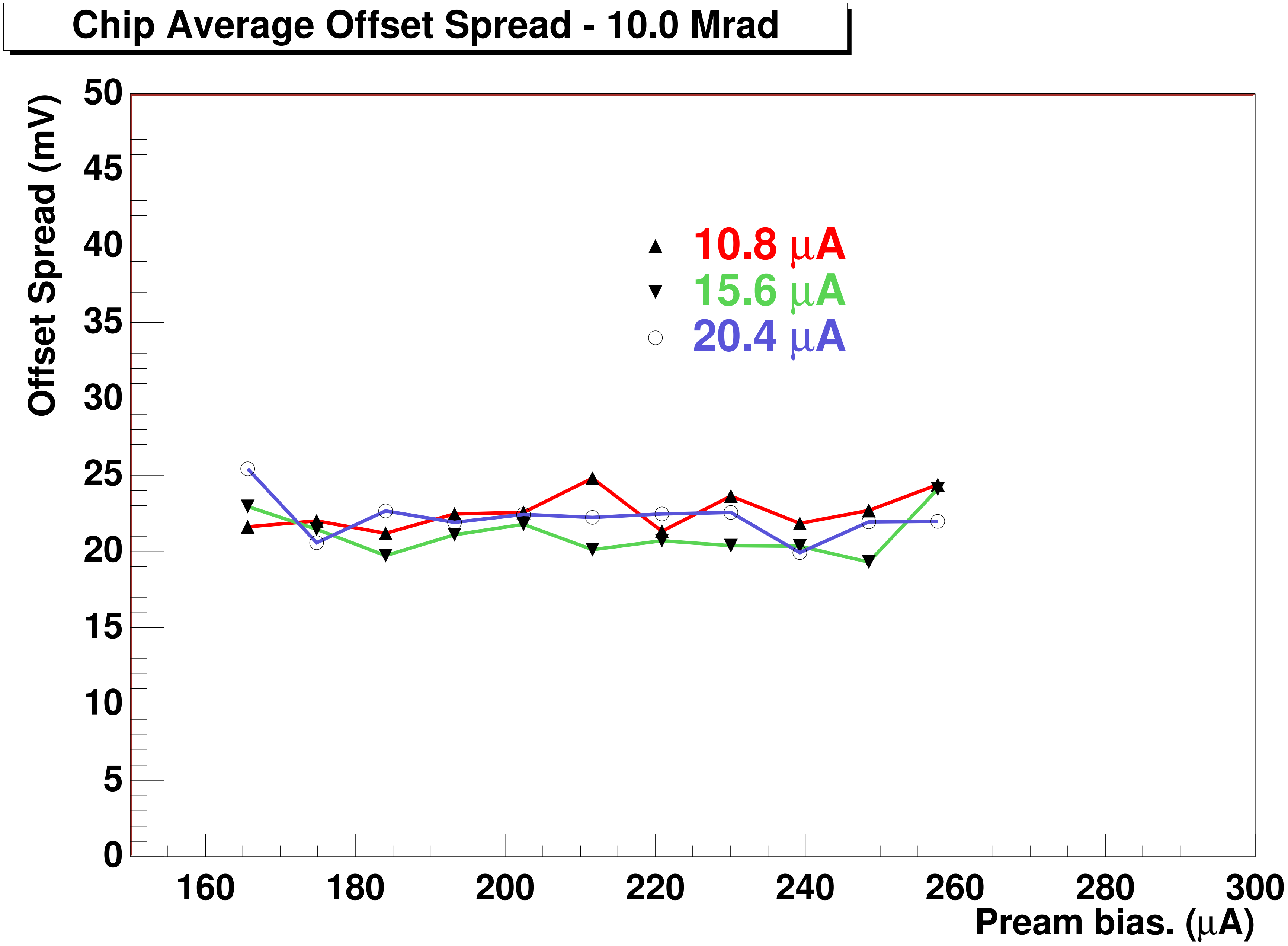

Chip Average Gain - 10.0 Mrad
Gain (mV/fC)
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
Ream bias. (μA)
10.8 μA
15.6 μA
20.4 μA



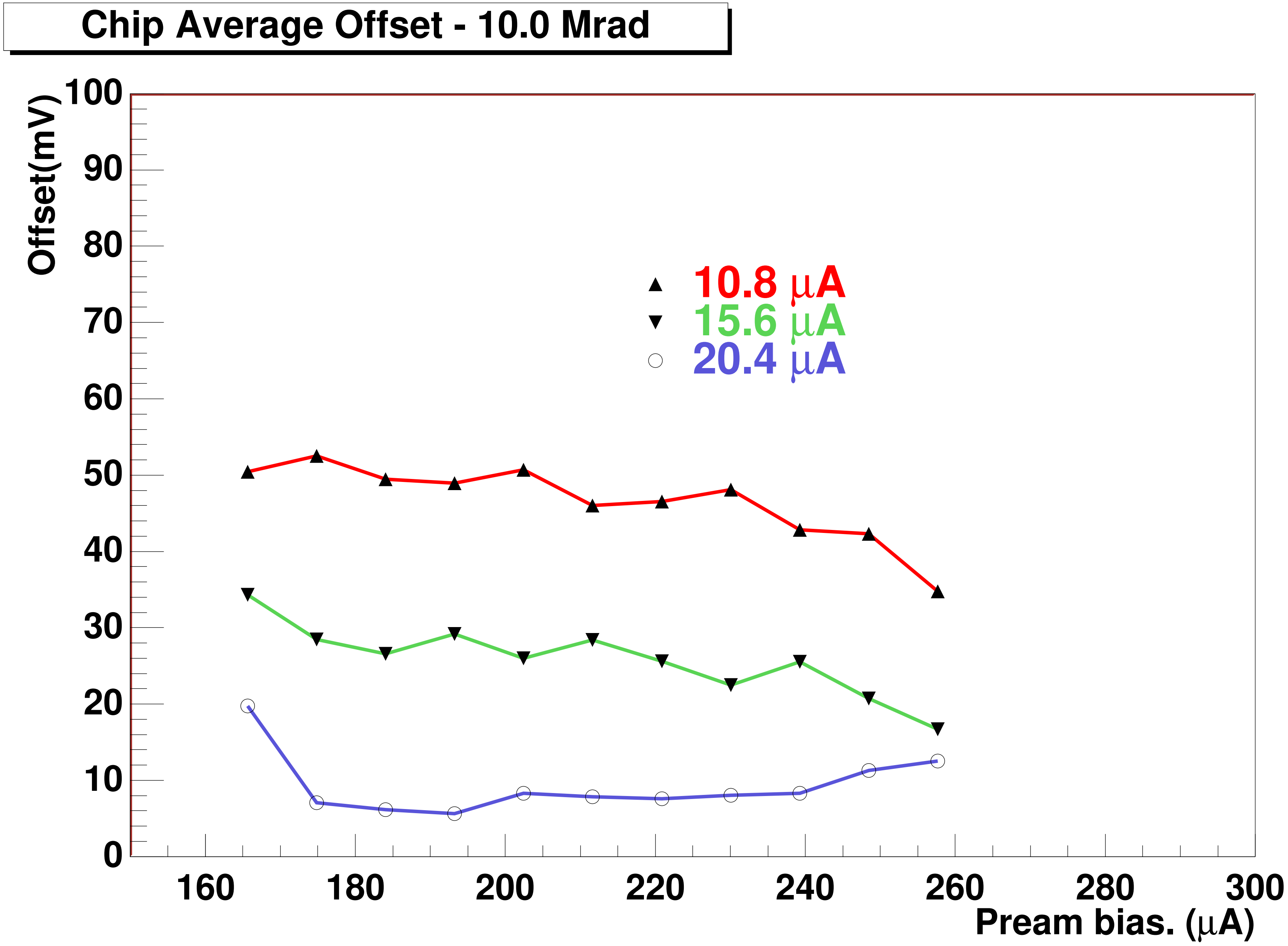
Chip Average Gain Spread - 10.0 Mrad
Gain Spread(mV/fC)
0
2
4
6
8
10
12
14
160
180
200
220
240
260
280
300
Pream bias. (μA)
10.8 μA
15.6 μA
20.4 μA


Chip Average Noise - 10.0 Mrad
Noise (ENC)
Pream bias. (μA)
10.8 μA
15.6 μA
20.4 μA
0
100
200
300
400
500
600
700
800
900
1000
160
180
200
220
240
260
280
300


Chip Average Matching - 10.0 Mrad
Matching (mV)
50
45
40
35
30
25
20
15
10
5
0
160
180
200
220
240
260
280
300
Pream bias. (μA)
10.8 μA
15.6 μA
20.4 μA



Chip Average Offset Spread - 10.0 Mrad
Offset Spread (mV)
50
45
40
35
30
25
20
15
10
5
0
10.8 μA
15.6 μA
20.4 μA
160
180
200
220
240
260
280
300
Pream bias. (μA)



Chip Average Offset - 10.0 Mrad
Offset(mV)
100
90
80
70
60
50
40
30
20
10
0
10.8 μA
15.6 μA
20.4 μA
160
180
200
220
240
260
280
300
Pream bias. (μA)