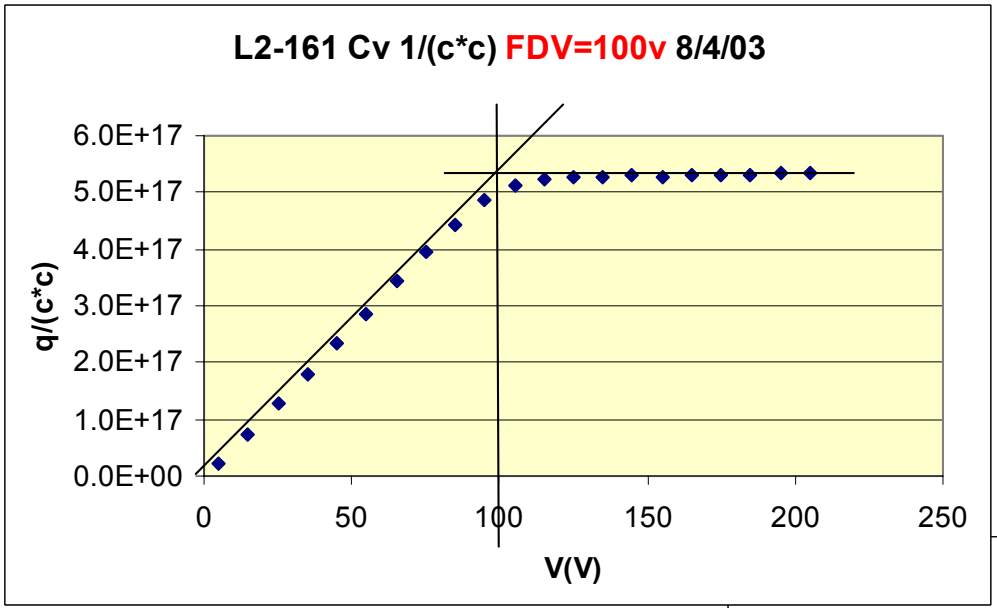
L2 Sensor Preliminary Results

- **First look at new batch of L2 sensors**
  - **40 sensors tested**
- **Summary of results**
- **Testing systematics**
- **Long term test results**

- ***Work by H. Mao***

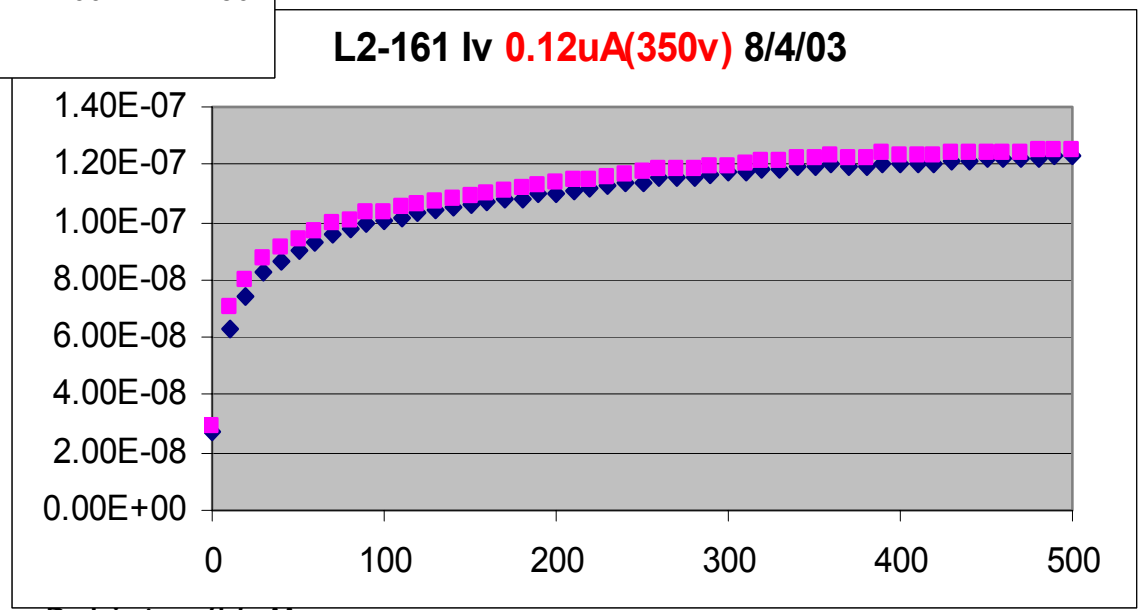
Sample CV and IV



We observe that IV curves taken after CV show different characteristics. - always do IV first

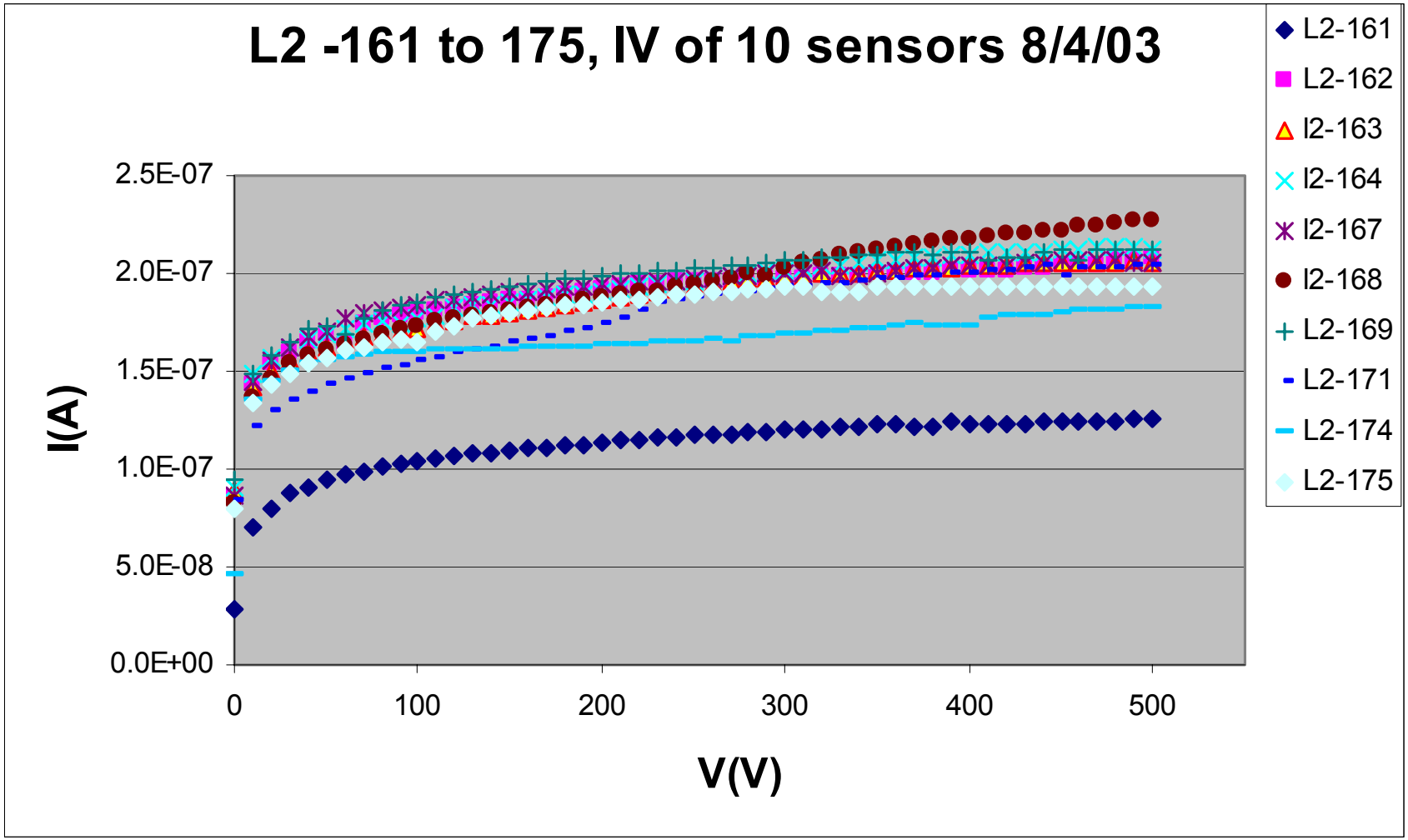
From Plot	FDV=100v
From 2%	FDV=105v

Now using 2% change criteria

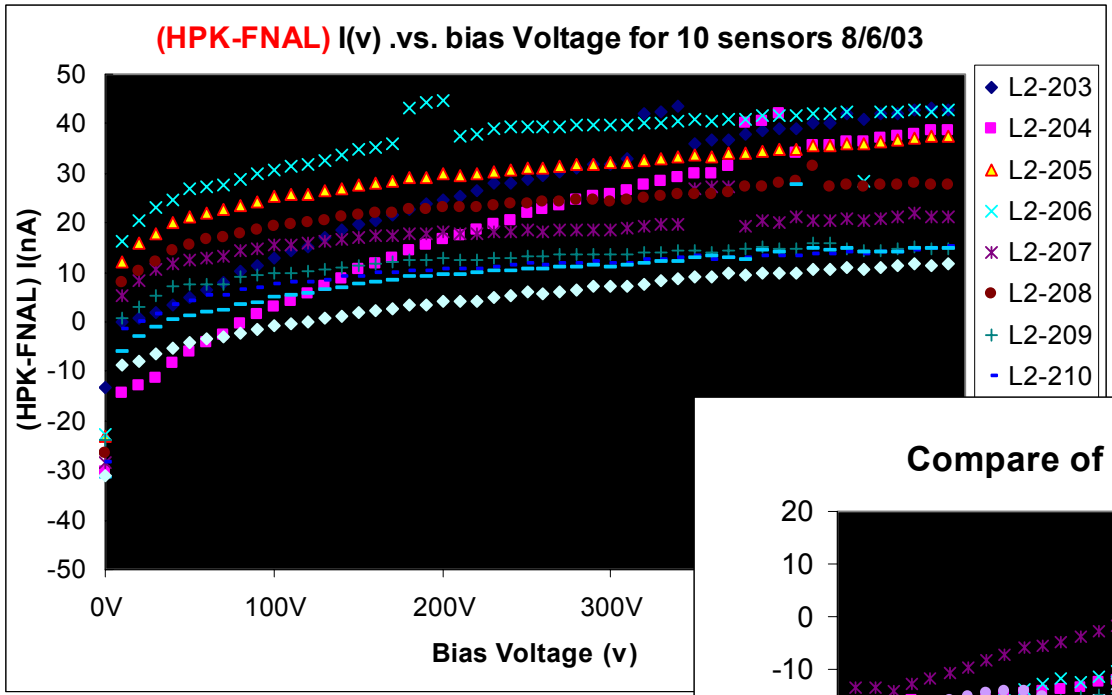


R. Lipton/H. Mao

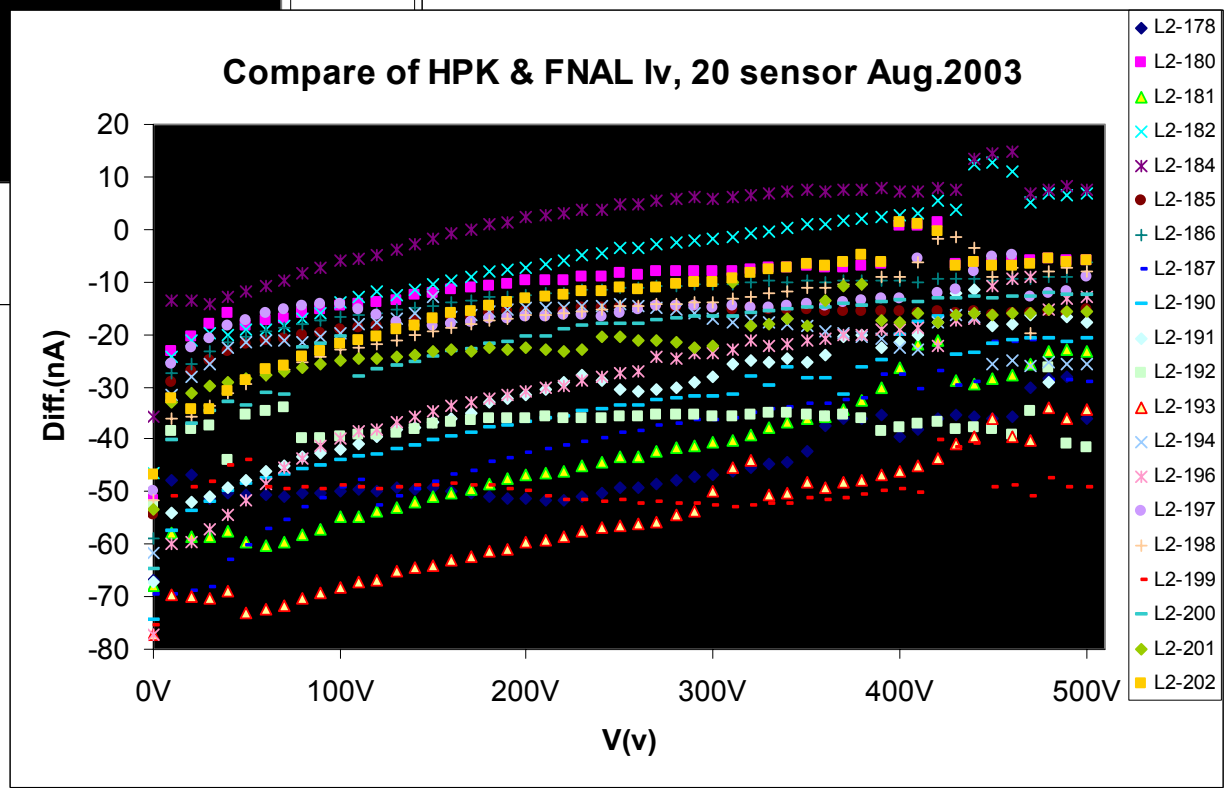
IV Curves


L2 -161 to 175, IV of 10 sensors 8/4/03
I(A)
2.5E-07
2.0E-07
1.5E-07
1.0E-07
5.0E-08
0.0E+00
0
100
200
300
400
500
V(V)
L2-161
L2-162
I2-163
I2-164
I2-167
I2-168
L2-169
L2-171
L2-174
L2-175

IV Comparison

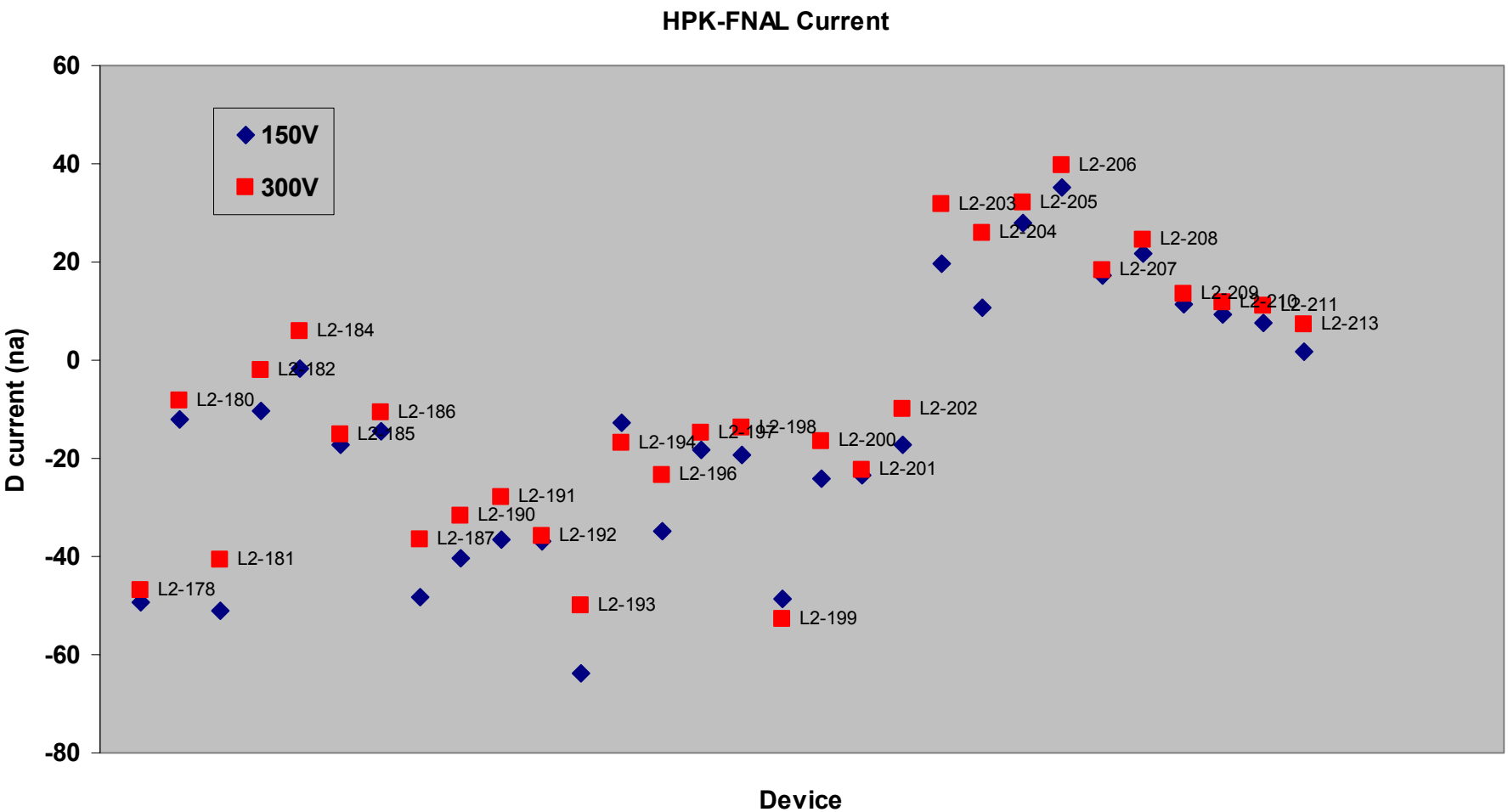


1st 10 sensors tested compare well with Hammamatsu measurements. The next 30 were taken later in the day and tend to show higher currents.

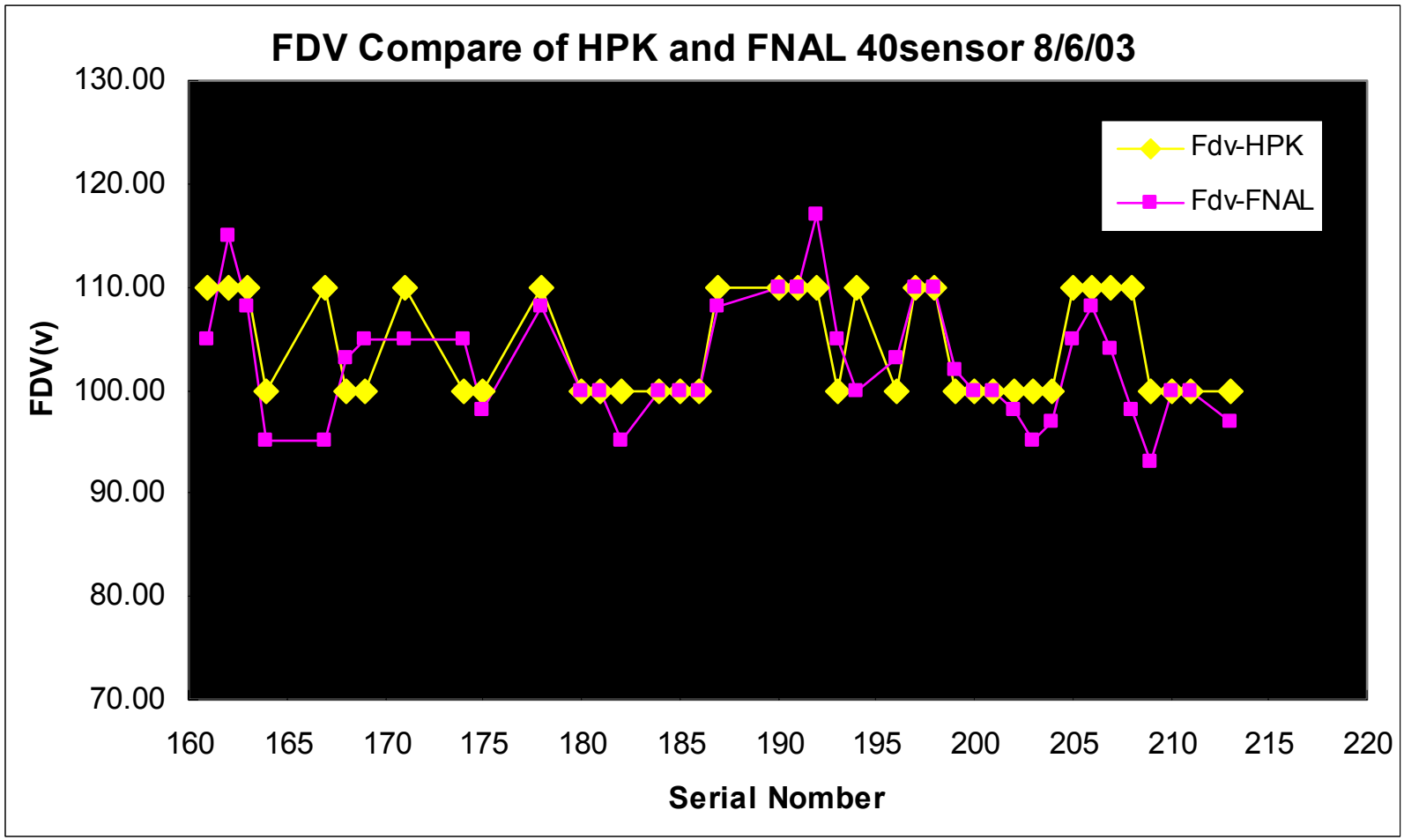


Aug 7,2003

IV Comparison

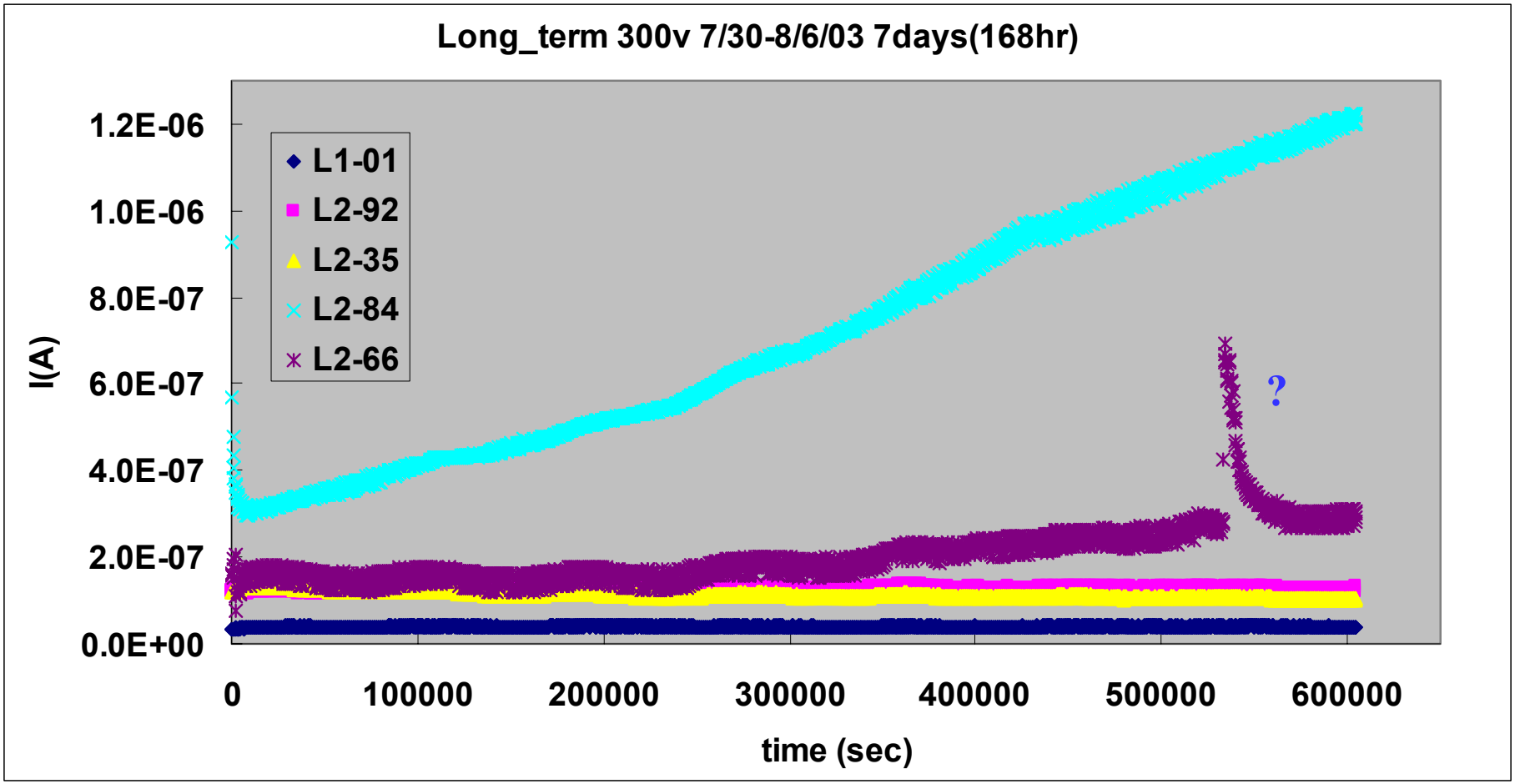


FDV Comparison

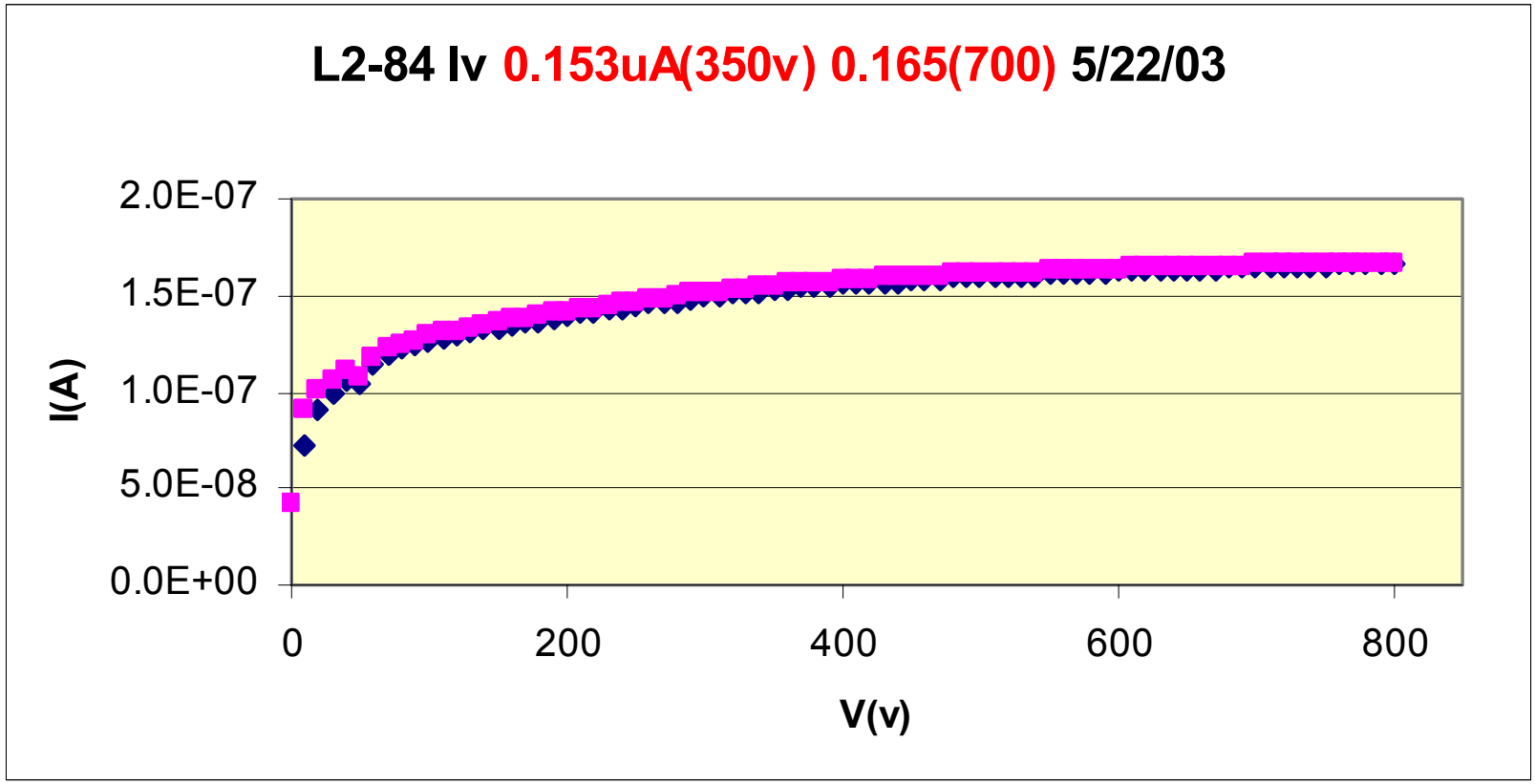


FDV calculated with "2%" method

Long Term Test



L2-84 IV


L2-84 Iv 0.153uA(350v) 0.165(700) 5/22/03
2.0E-07
1.5E-07
1.0E-07
5.0E-08
0.0E+00
I(A)
0
200
400
600
800
V(v)