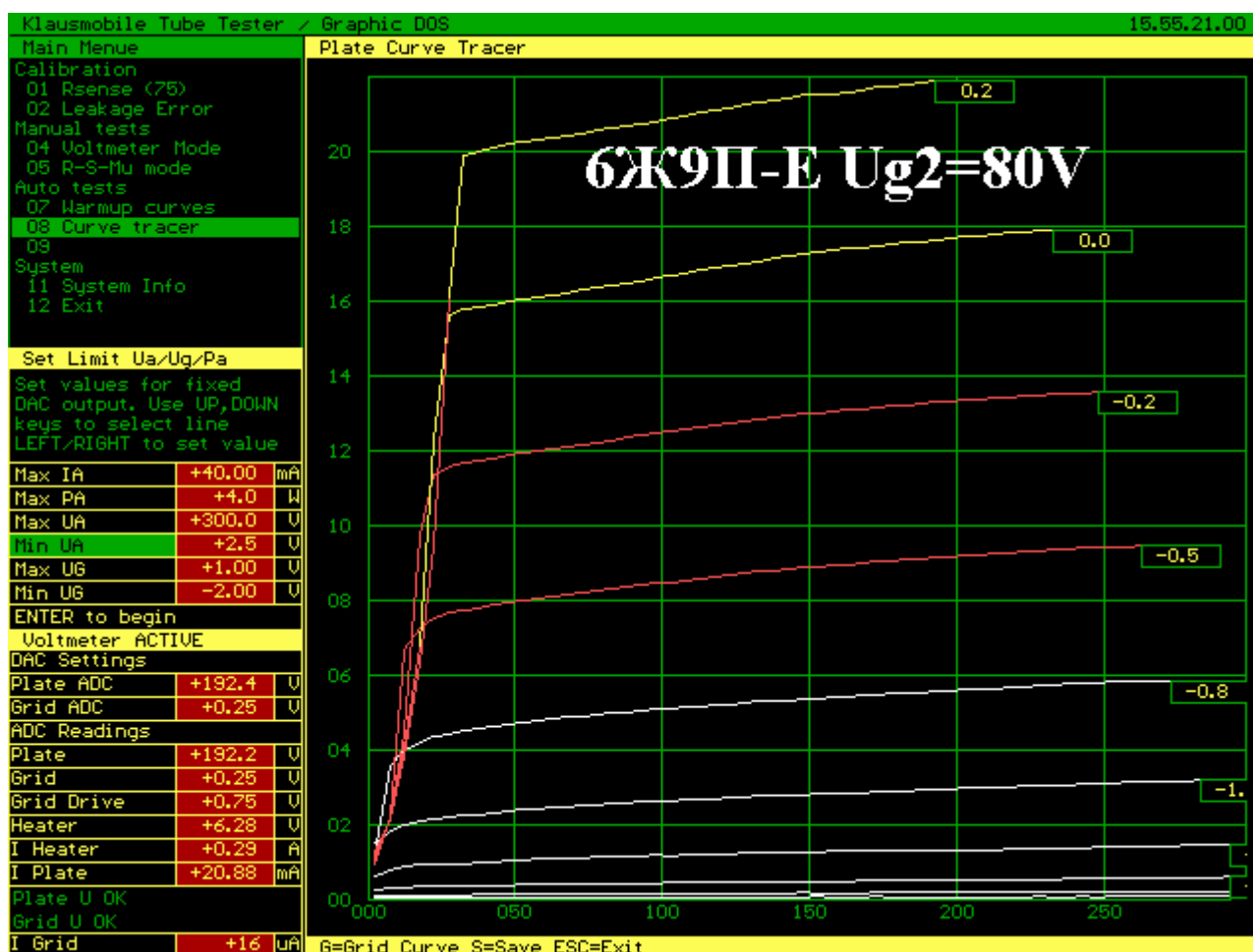


# 6Ж9Π-E 6J9P-E (E180F)

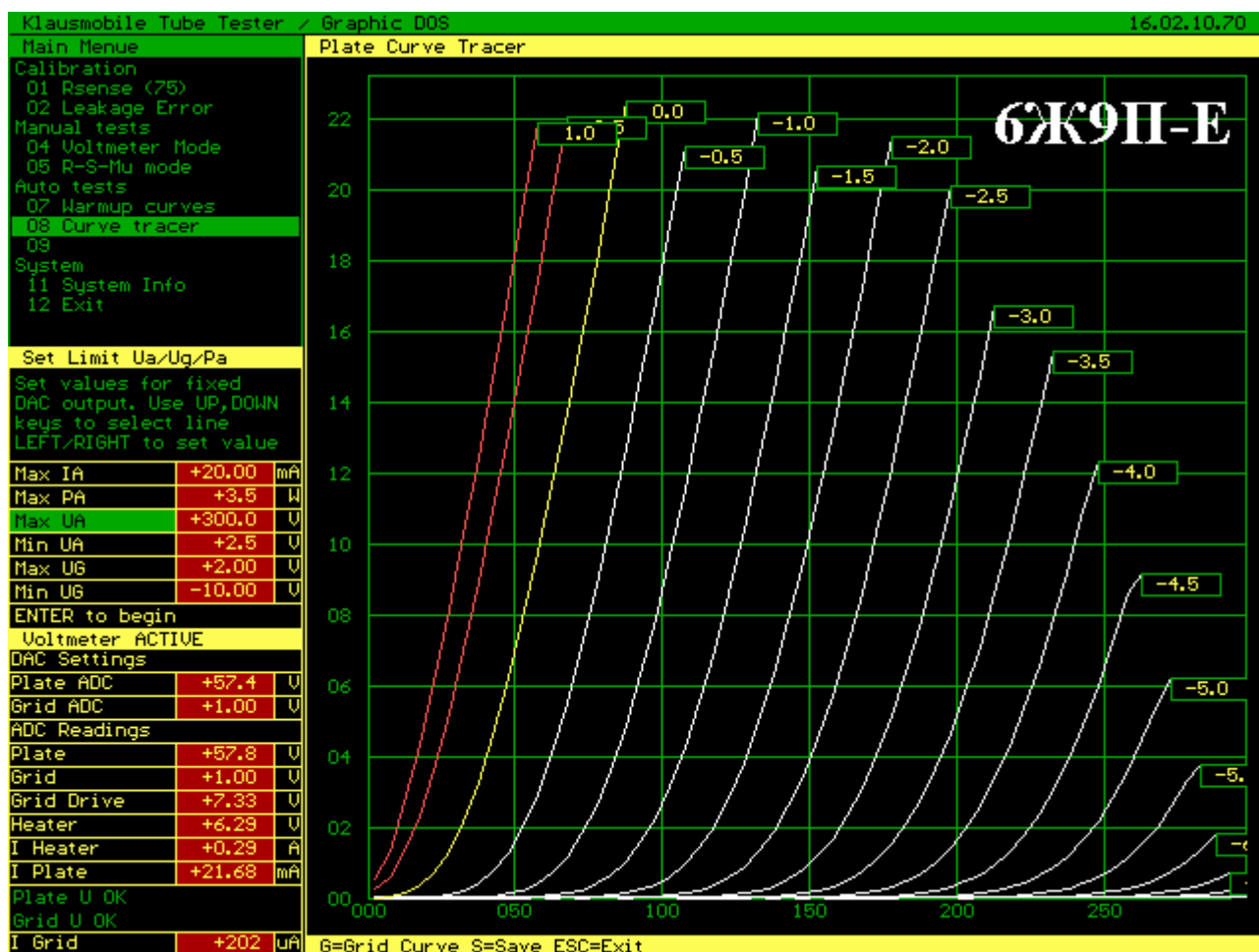
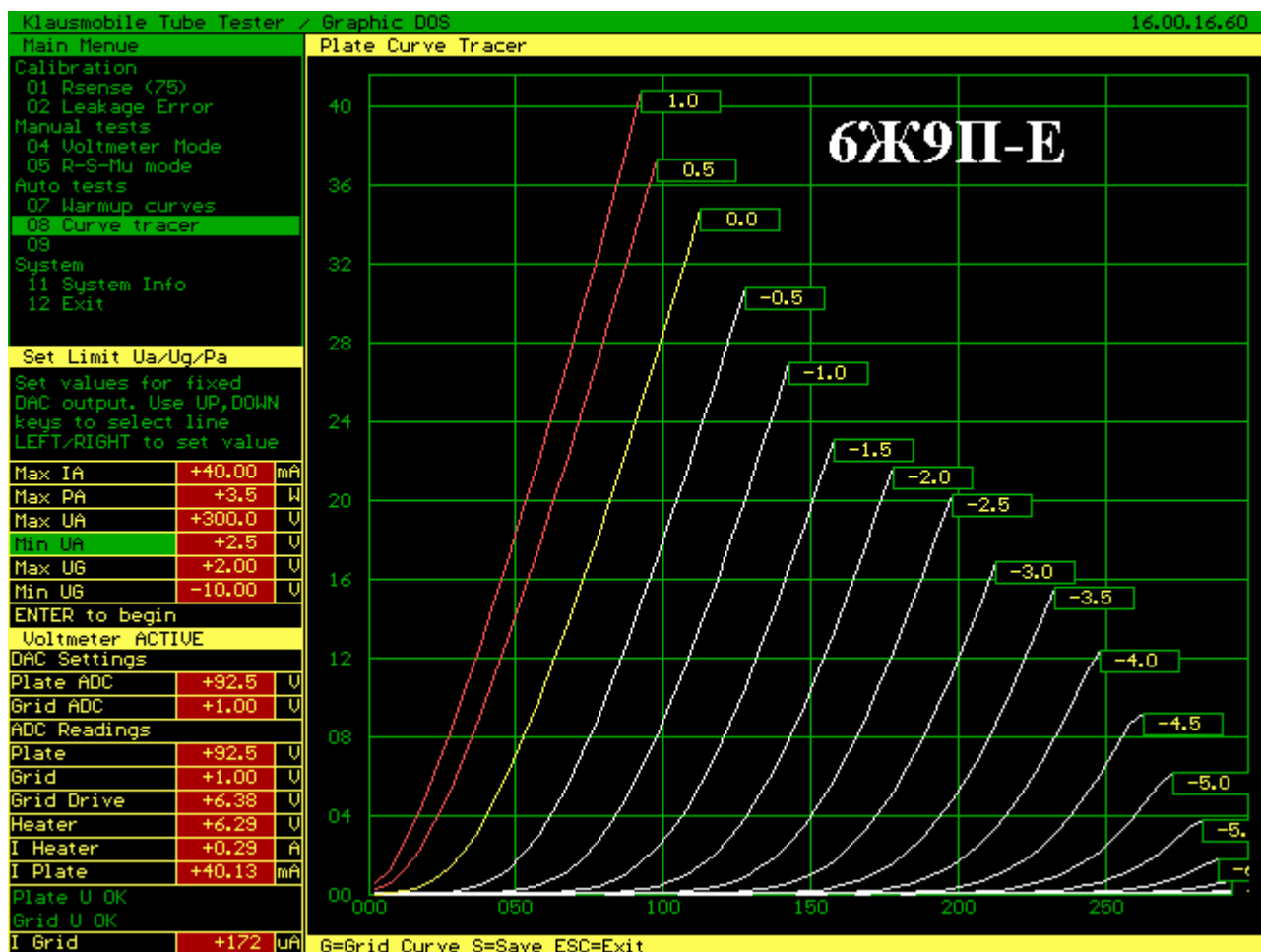
Pentode mode,  $U_{G2}=80V$



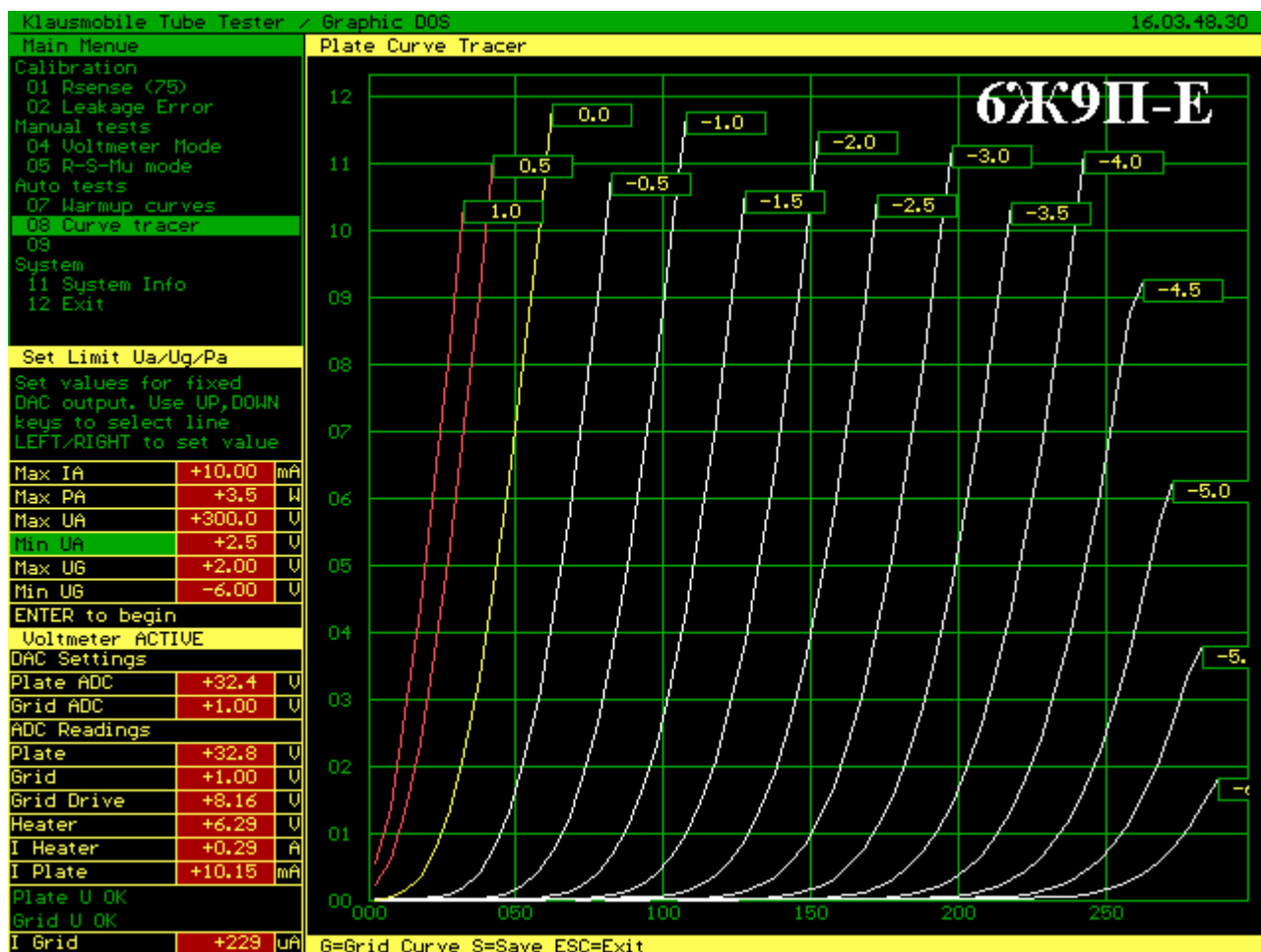
The tube is rated to operate at  $U_{G2}=150V$ , but even at  $-80V$  its high transconductance shows up. At the cost of low  $V_p/V_{G2}$  rating, of course.

Triode mode, grid 2 and 3 connected to plate

Standard specifications per each triode			
Parameter	Maximum	Operating Point	Measured *
$U_a$ , V	+250 (+160@G2)	-	200
$U_{g1}$ , V	-	-	-3.0
$I_a$ , mA	35	-	12.0
$P_a$ , W	3.0 (+0.7W Grid 2)	-	2.4
$G_m$ , mA/V	12 @ $I_p=15mA$ , $I_{g2}=4mA$	-	15
$R_p$ , kOhm	150k for pentode	-	3
$\mu$ , V/V	-	-	45



Legend: White curves:  $I_g < 5 \mu A$  Yellow:  $5 < I_g < 20 \mu A$  Red:  $20 < I_g < 300 \mu A$ . Measurements terminate at  $I_g > 300 \mu A$



S/Mu/Rp for Ia=20.0mA and variable Ua/Ug						
Ug,V	Ua,V	Ia,mA	Ga	Gm	Mu	Rp,k
-2.5	198.9	19.92	0.3	17.7	55.8	3.10
-2.0	175.2	19.77	0.4	18.8	48.4	2.57
-1.5	152.7	20.03	0.4	19.2	47.2	2.46
-1.0	129.0	19.86	0.4	18.8	44.7	2.37
-0.5	106.5	20.07	0.4	19.0	45.1	2.36
0.0	82.8	19.63	0.4	18.7	44.5	2.38
0.5	64.0	19.85	0.4	14.6	32.9	2.24
1.0	55.4	20.27	0.5	6.2	13.3	2.13
S/Mu/Rp for Ia=10.0mA and variable Ua/Ug						
Ug,V	Ua,V	Ia,mA	Ga	Gm	Mu	Rp,k
-3.5	217.7	9.91	0.3	12.8	46.9	3.60
-3.0	195.2	9.94	0.3	13.5	44.3	3.20
-2.5	172.8	10.06	0.3	13.7	43.5	3.10
-2.0	150.2	10.13	0.3	14.2	42.5	2.99
-1.5	127.7	10.18	0.3	14.6	42.6	2.92
-1.0	104.1	9.91	0.3	14.5	42.3	2.91
-0.5	81.6	10.06	0.4	15.1	42.2	2.79
0.0	59.1	10.08	0.4	15.1	41.2	2.72
0.5	40.4	9.80	0.4	11.2	28.7	2.57
1.0	32.9	10.14	0.4	4.7	11.4	2.43
S/Mu/Rp for Ia= 5.0mA and variable Ua/Ug						
Ug,V	Ua,V	Ia,mA	Ga	Gm	Mu	Rp,k
-4.5	243.9	4.93	0.2	7.5	45.1	6.00
-4.0	222.0	4.98	0.2	7.8	43.9	5.60
-3.5	200.2	5.08	0.2	8.4	42.0	5.00
-3.0	177.8	4.98	0.2	8.3	40.7	4.80
-2.5	155.3	4.93	0.2	8.6	40.9	4.70
-2.0	133.5	5.01	0.2	8.9	40.6	4.50
-1.5	110.9	4.93	0.2	9.1	39.4	4.30
-1.0	88.5	4.95	0.2	9.5	38.5	4.00
-0.5	66.7	5.09	0.3	10.1	38.4	3.70
0.0	44.2	4.94	0.3	10.2	36.4	3.50
0.5	27.3	4.96	0.3	7.7	24.6	3.20
1.0	19.9	4.92	0.3	3.4	10.1	2.98