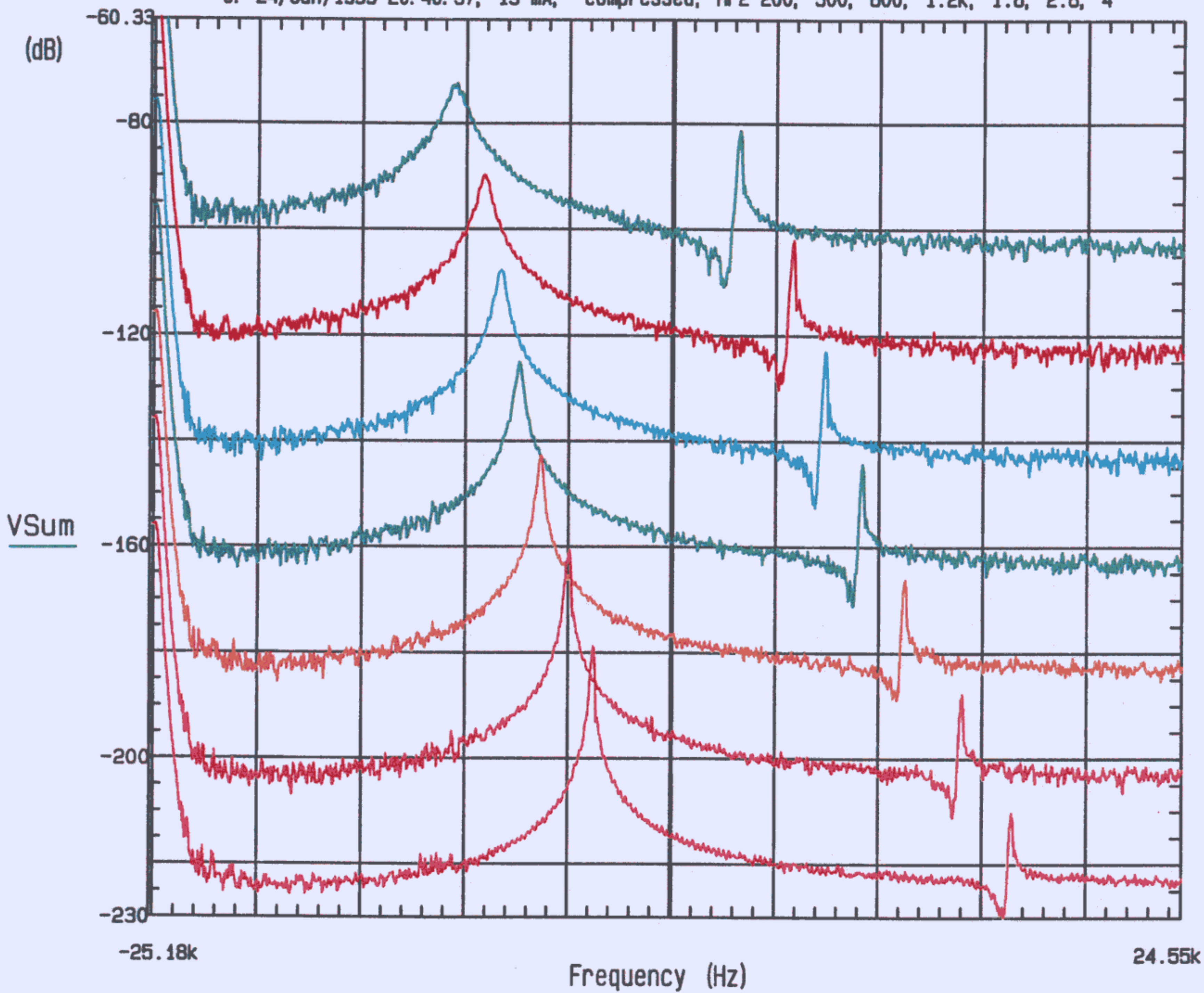
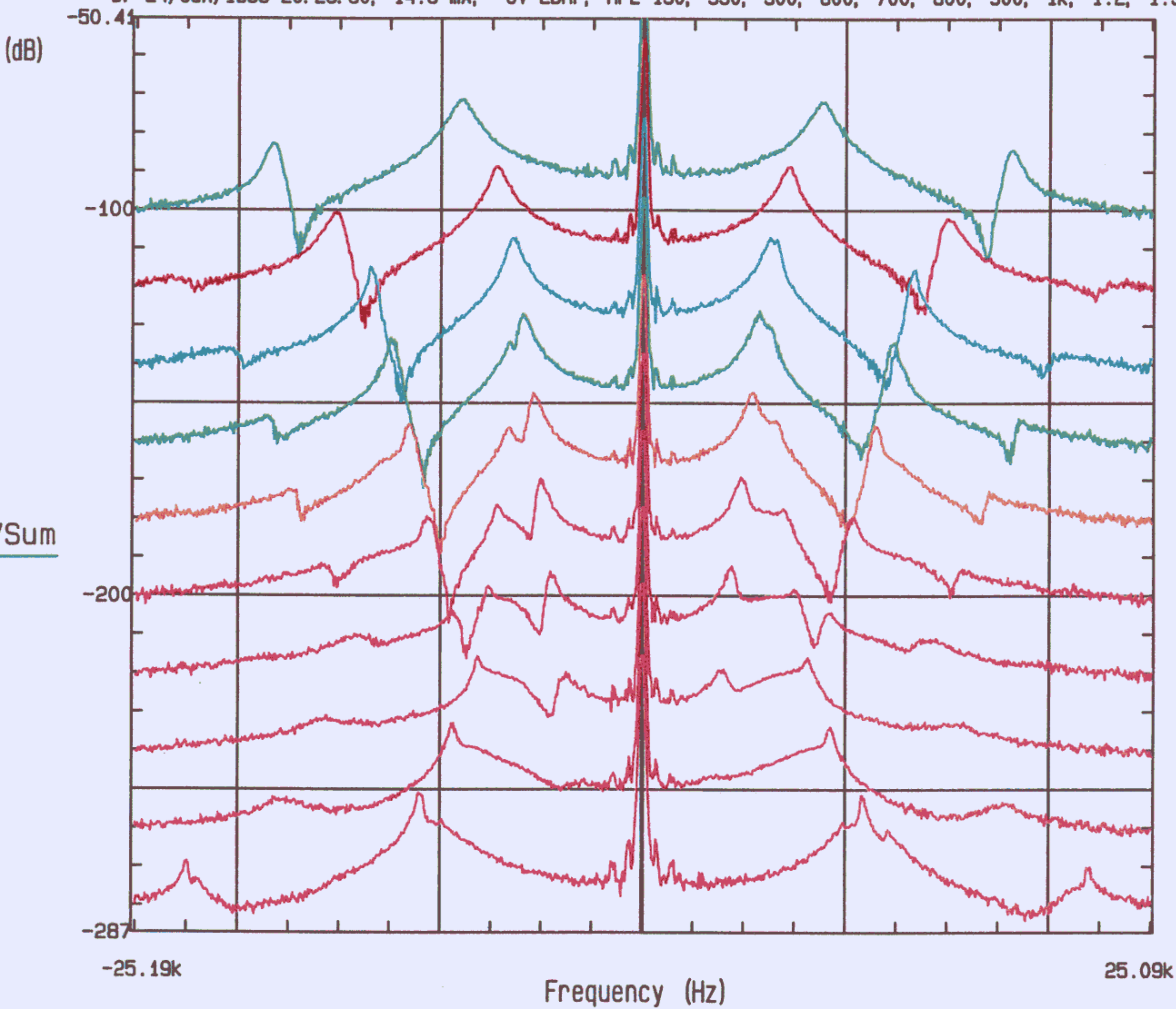


c: 24/Jun/1999 20:40:57, 13 mA, compressed, RF2 200, 500, 800, 1.2k, 1.8, 2.8, 4



b: 24/Jun/1999 20:25:30, 14.8 mA, UV LBRF, RF2 150, 350, 500, 600, 700, 800, 900, 1k, 1.2, 1.5 kW



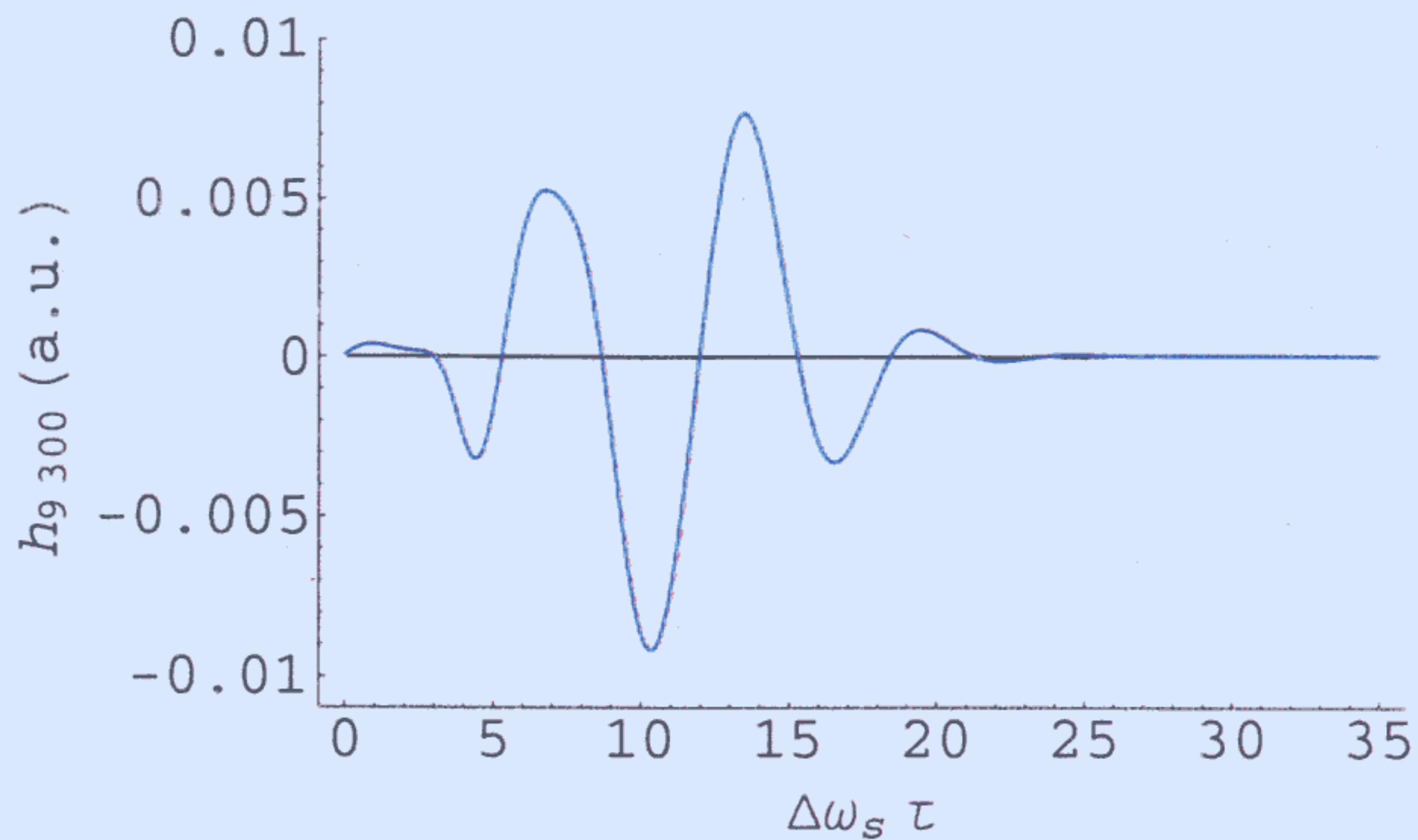


FIG. 1: Example of the h_{mn} function $h_{9\ 300}(\Delta\omega_s \tau)$ for the ϕ^4 -potential case. NSLS VUV-ring parameters are used.

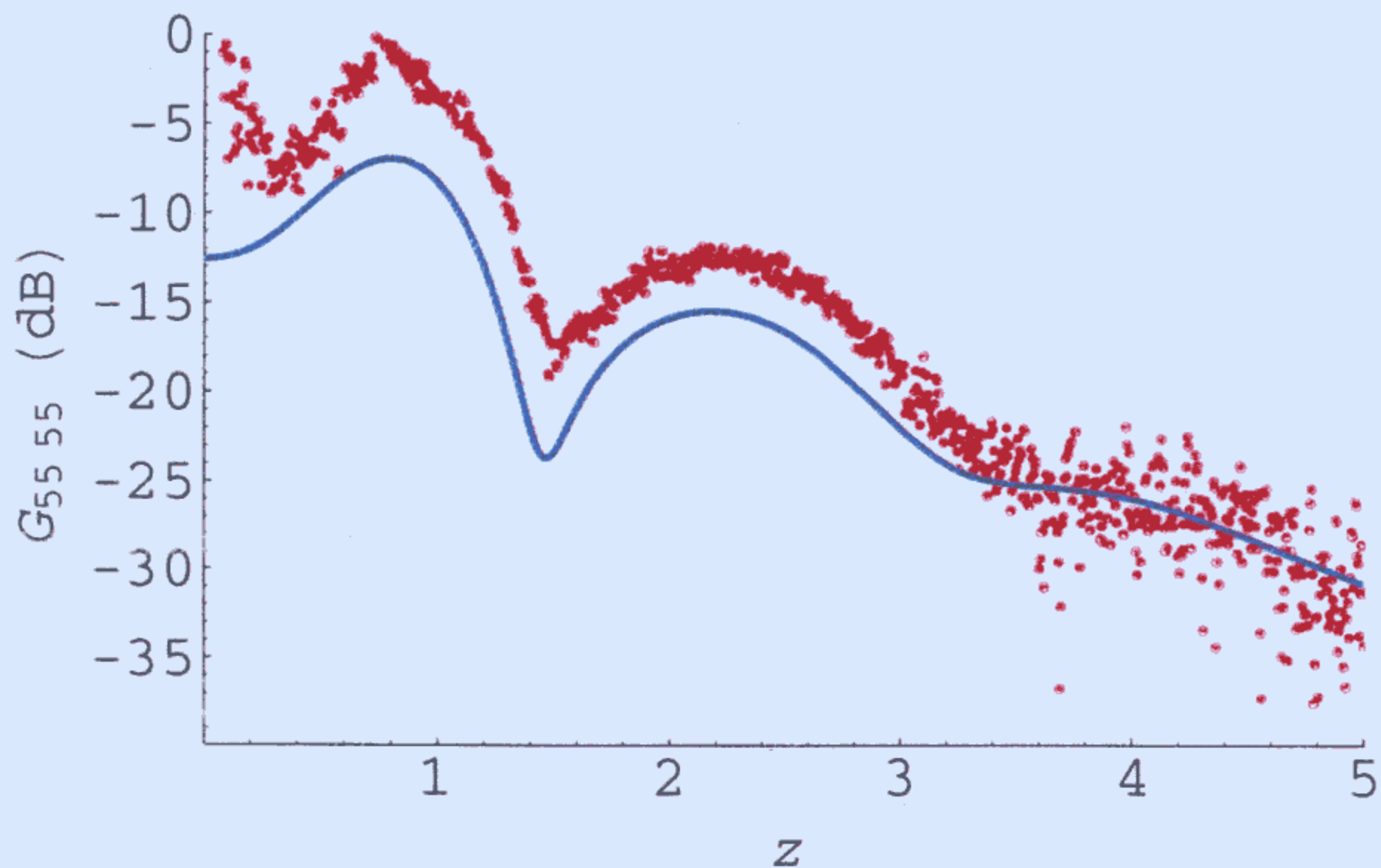
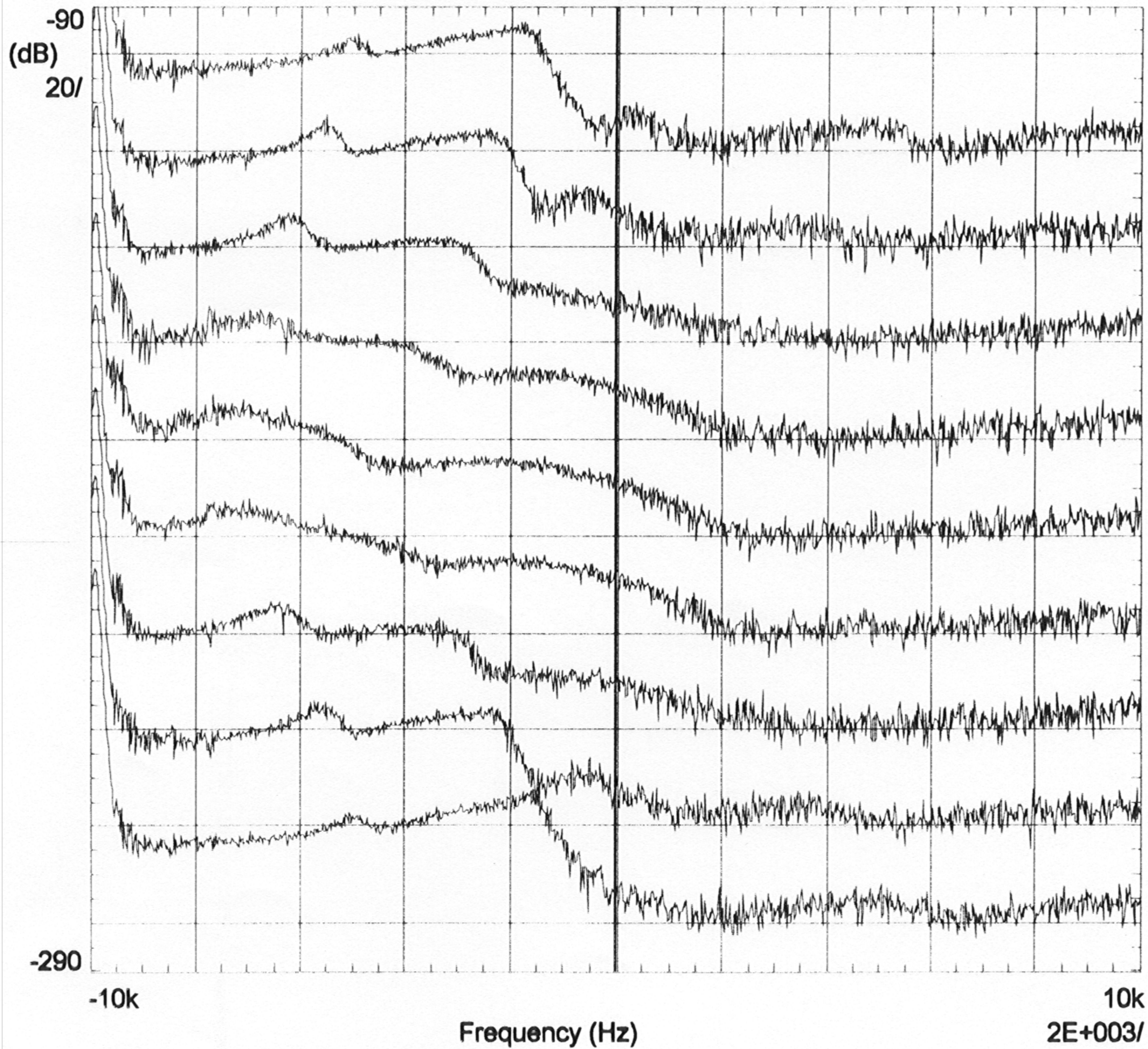
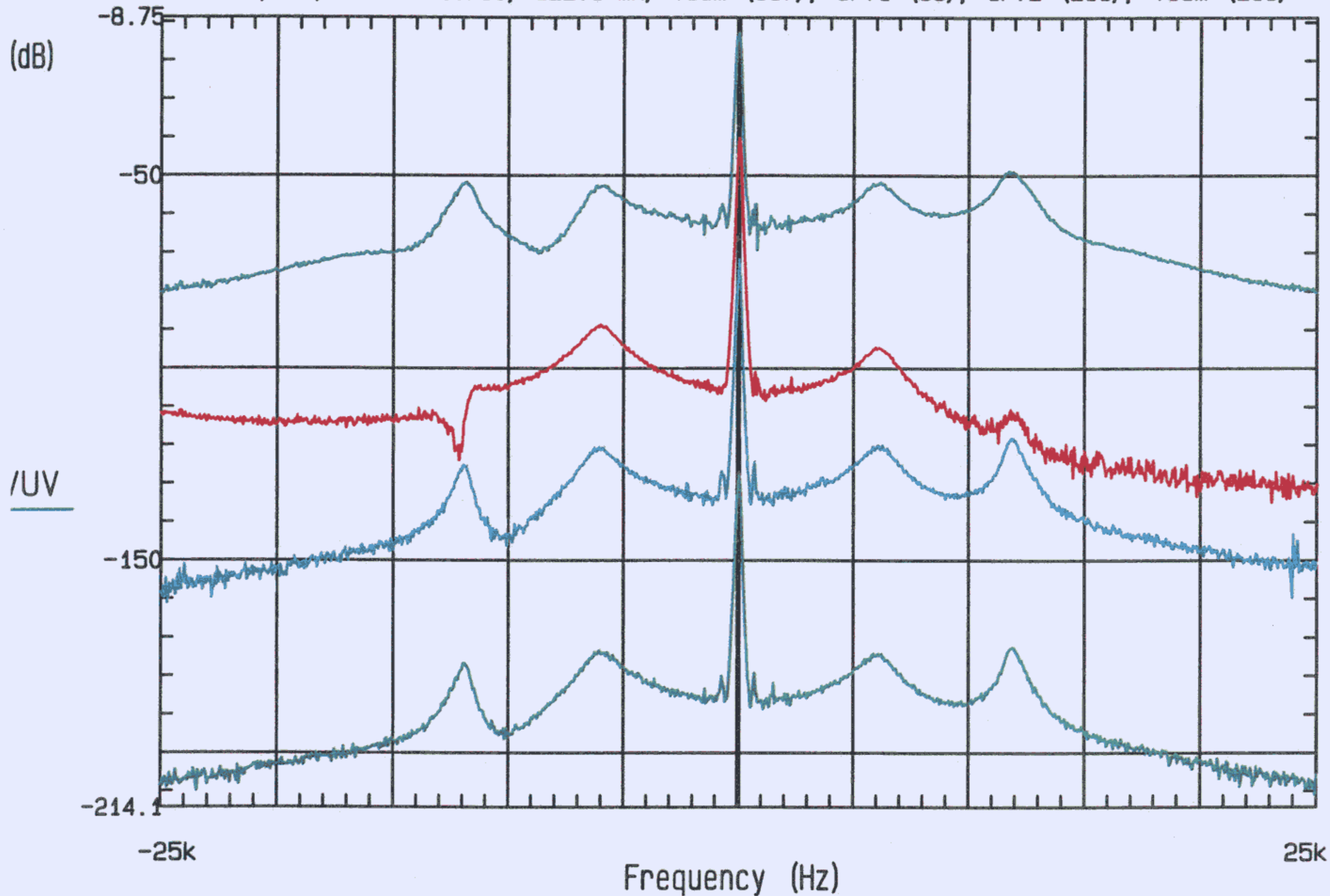


FIG. 2: Example of the beam transfer function $G_{55\ 55}$ as a function of $z = \Omega/\Delta\omega_s$ for the ϕ^4 -potential case (solid line) and in the NSLS VUV ring at 13 mA and stretched bunches (data points). The scaling factor $\Delta\omega_s$ is adjusted 20% from expected to match the data. The vertical scale is arbitrary.

c: 13/Apr/1999 15:08:44, 4 mA, LBRF, vs i/c phase



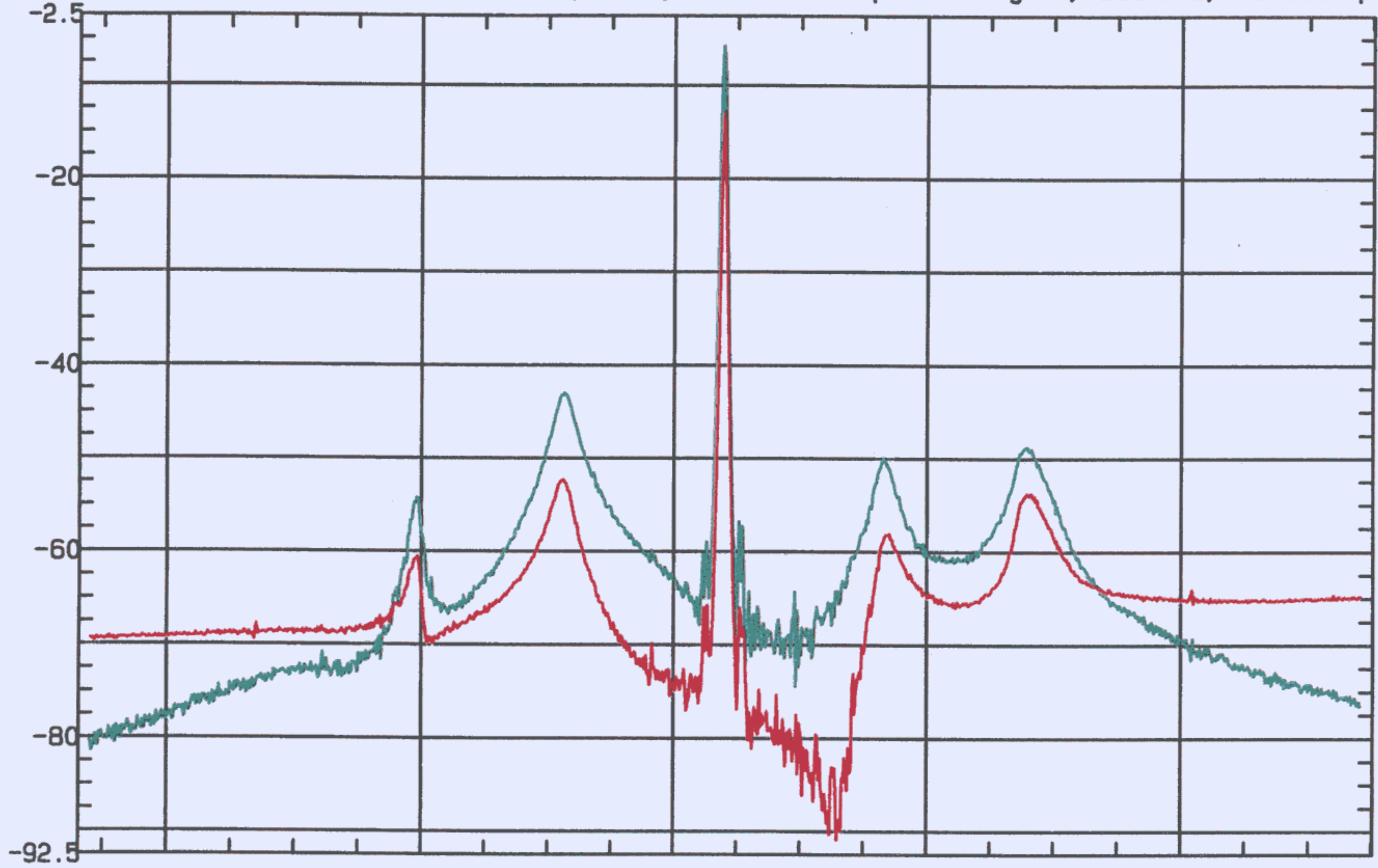
b: 18/Feb/2000 18: 10: 50, 322.1 mA, VSum (317), urf1 (53), urf2 (211), VSum (211)



Distortion

h: 03/Mar/2000 19:47:11, 373.7 mA, VSum, URF2 cav response to genr, 211 MHz, normal ops

(dB)



/UV

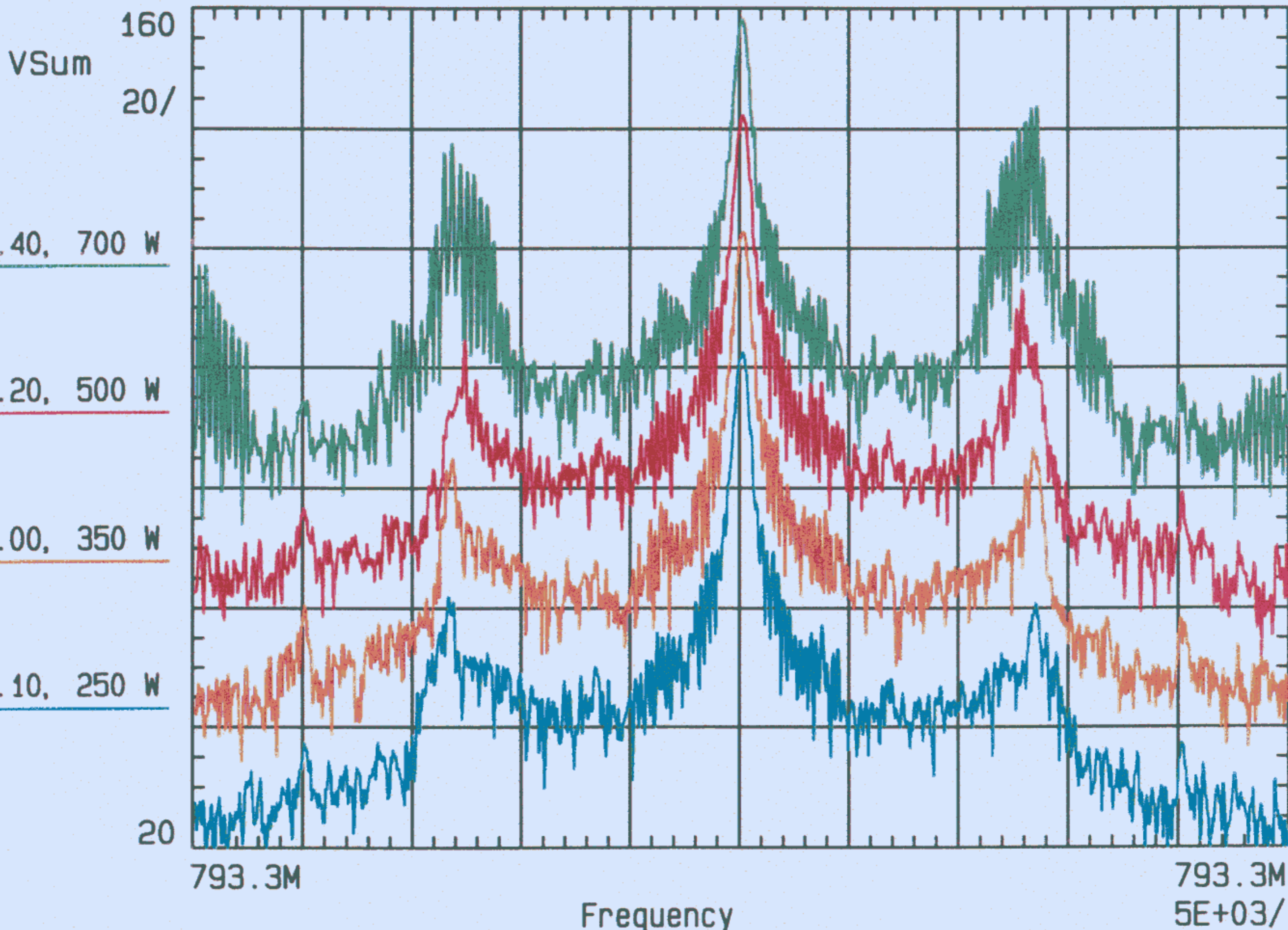
211.5M

Frequency (Hz)

211.6M

RF & Beam fb.

10/Jun/1998 21:15:06, Stretched, varying RF2



50 kHz span

d: 02/Mar/1999 08:17:11 overstretched

350 mA

-40
(dB)
10/

7-Bu.

-120

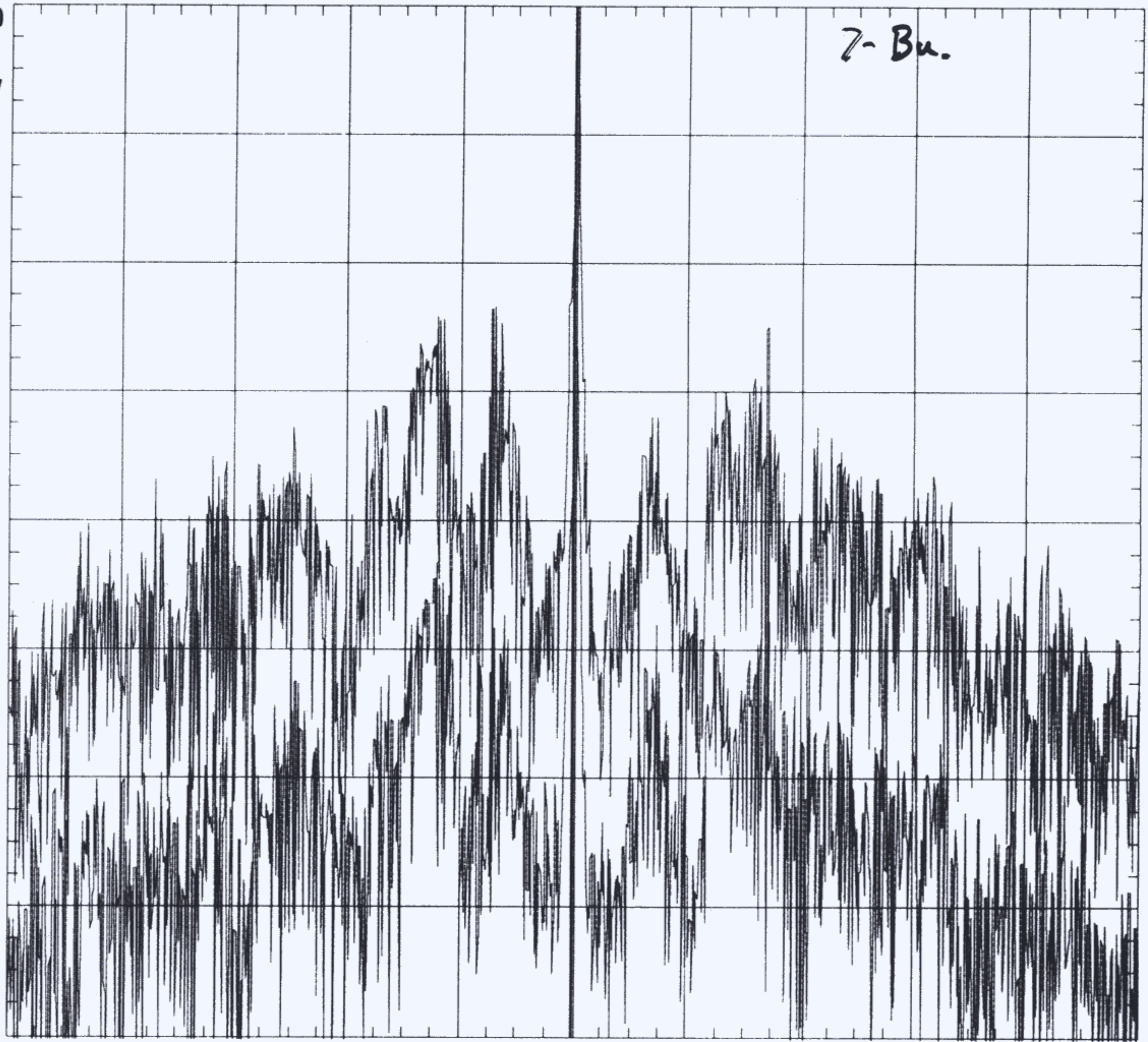
-50k

50k

Frequency (Hz)

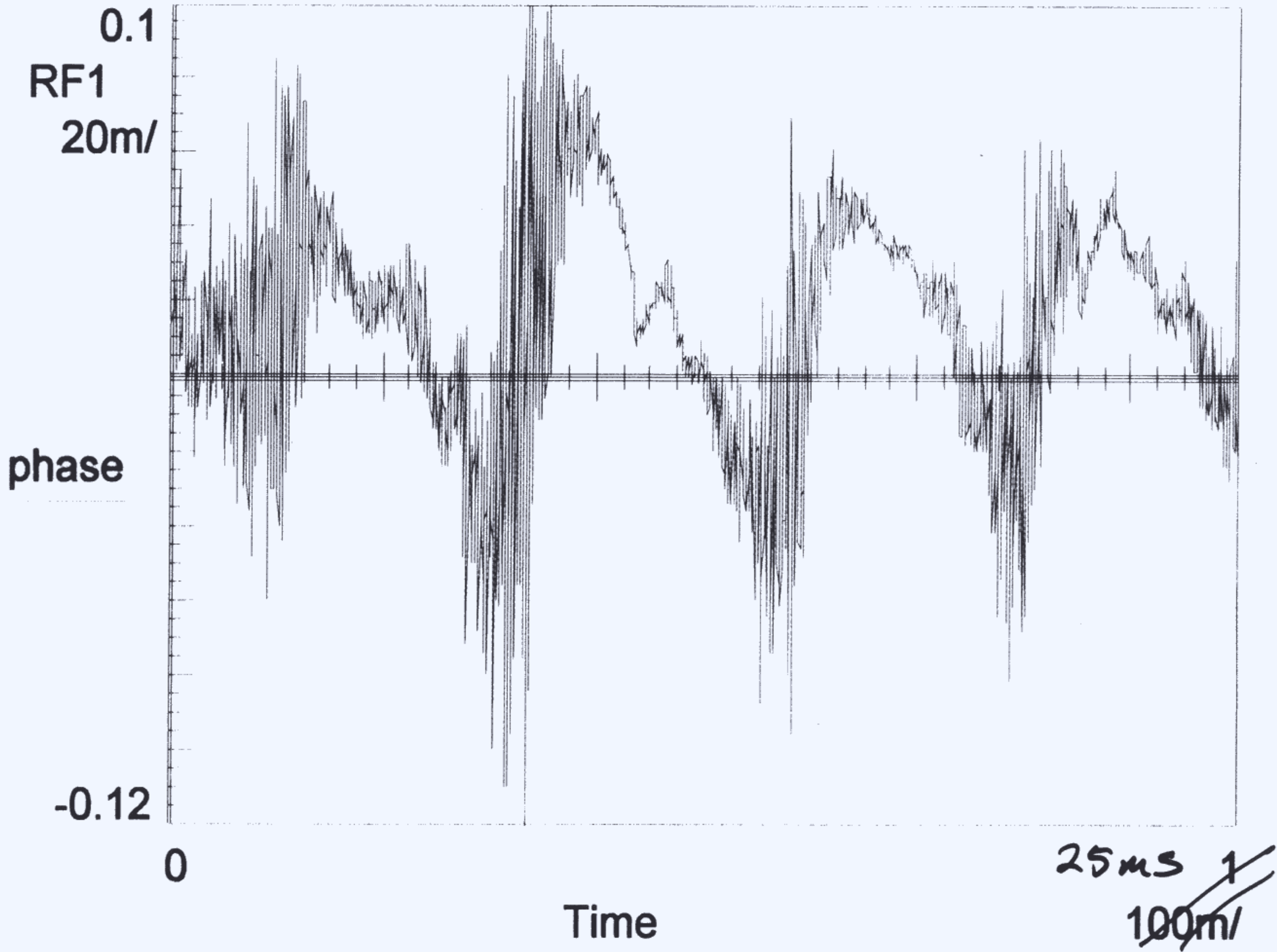
10k/

100-kHz span

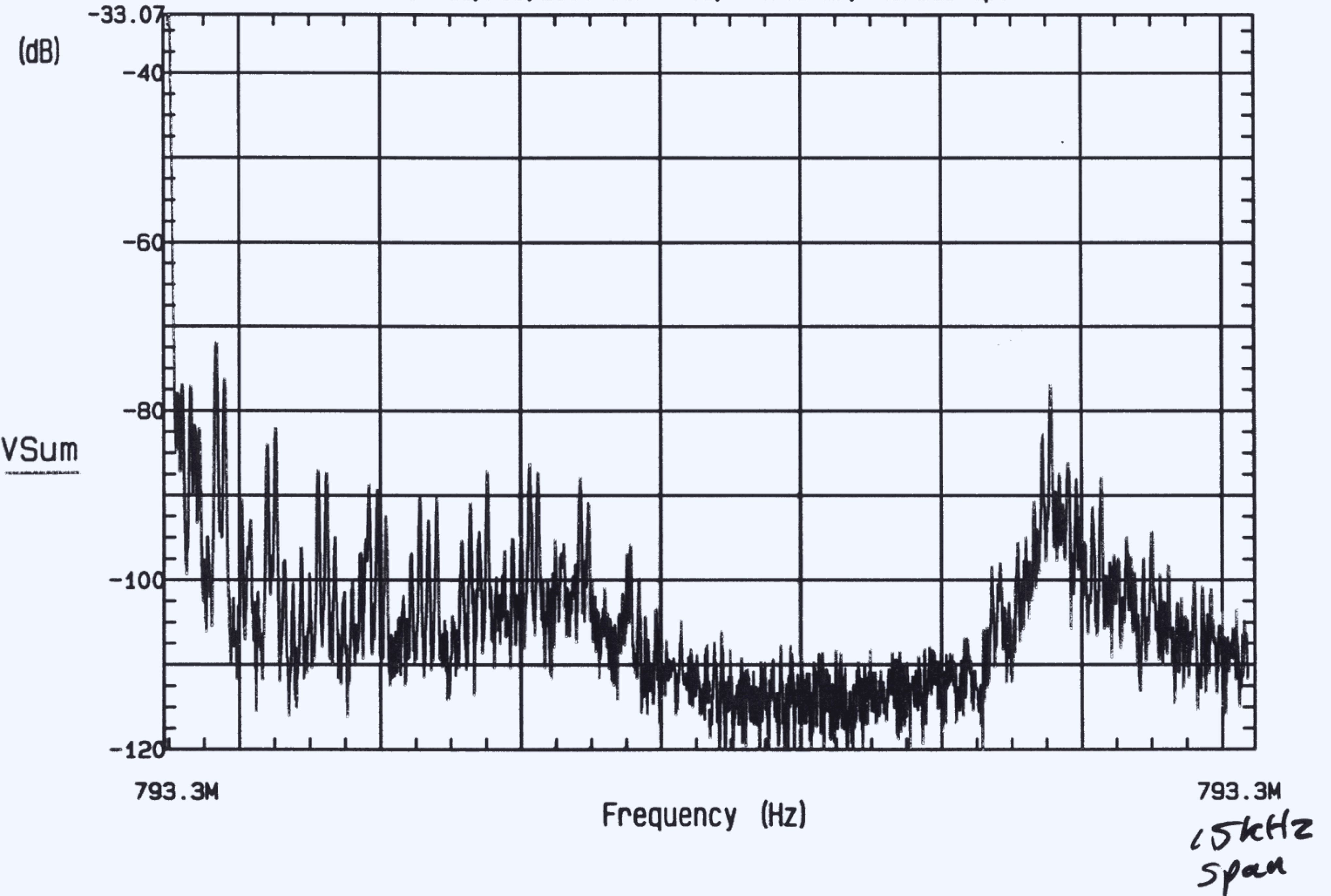


UV overstretched ~350 mA
RF2 862W

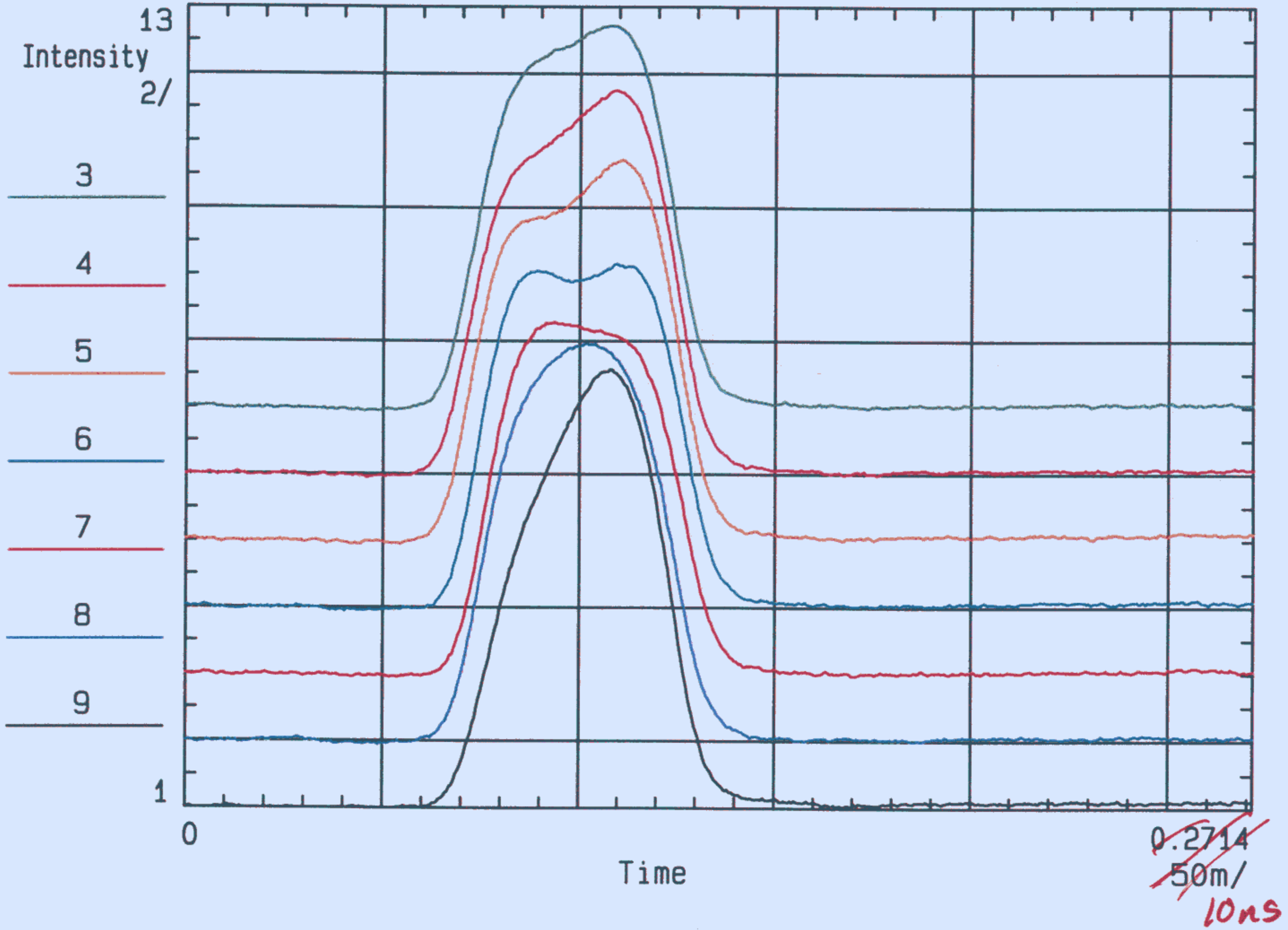
Tue 02/Mar/1999 08:21:51



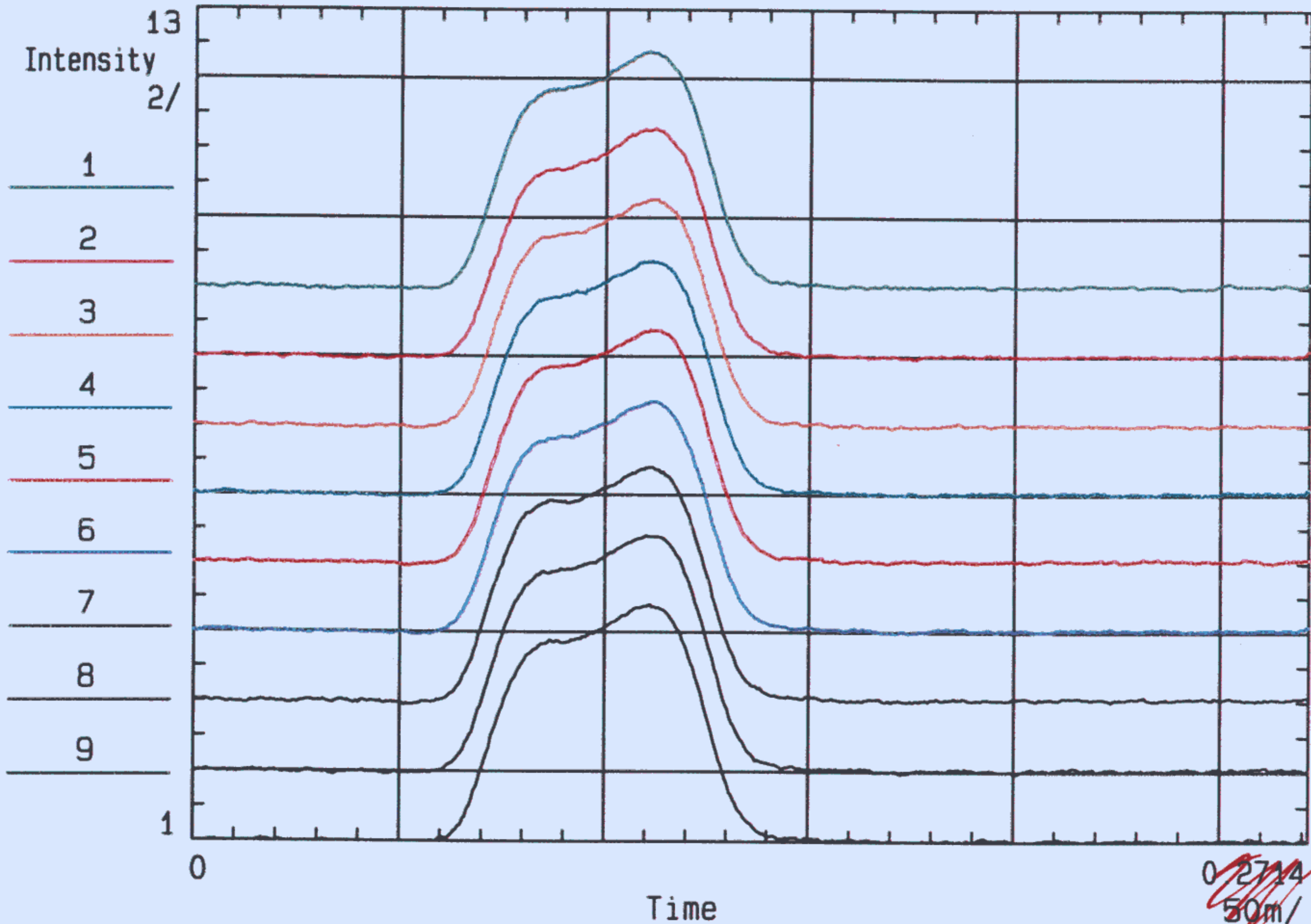
a: 16/Feb/2000 11:44:58, 447.5 mA, normal ops



18/Mar/1998 16: 18: 59, 714.5999 mA, Seven bunches

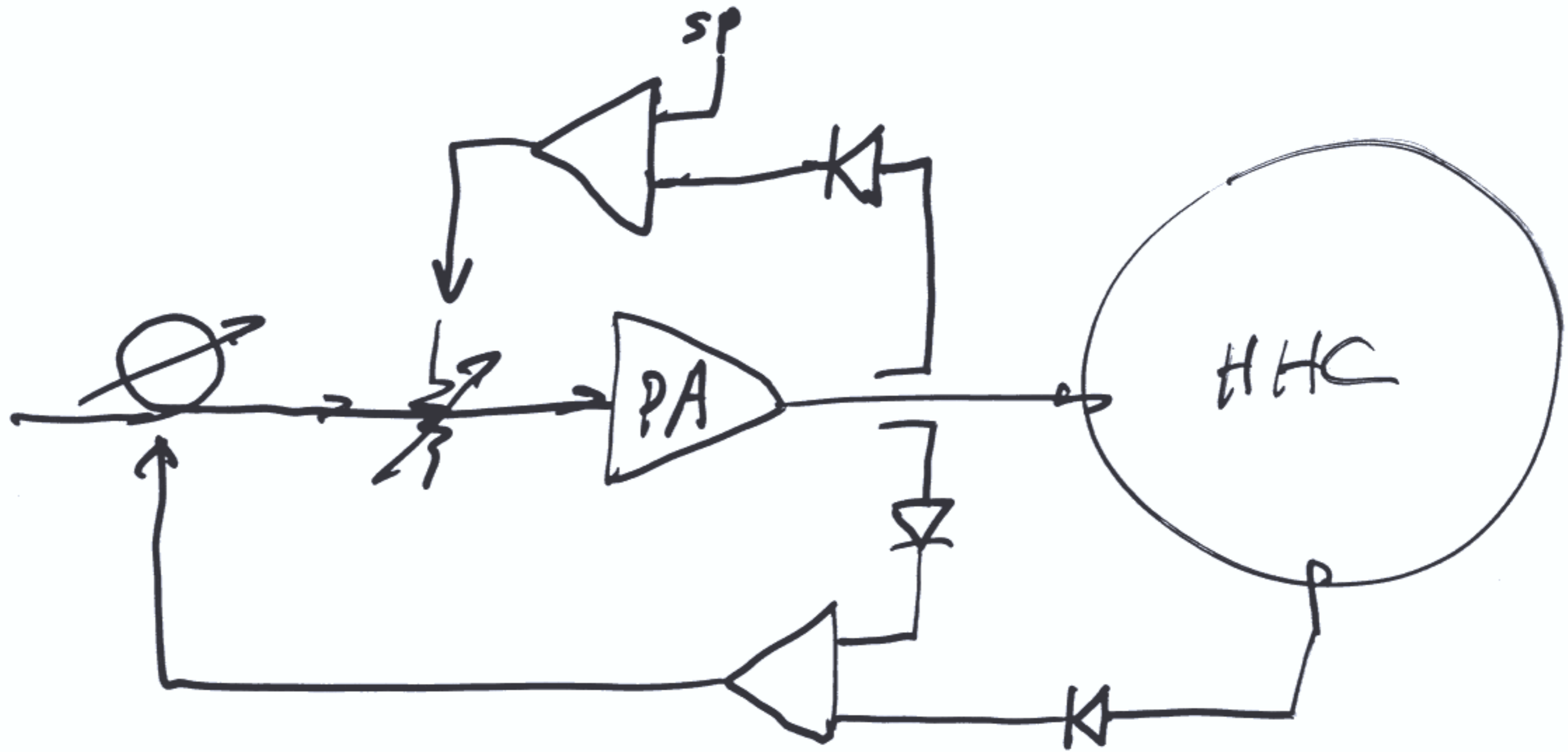


21/Jan/1998 19:32:23, 790.2999 mA, Nine bunches

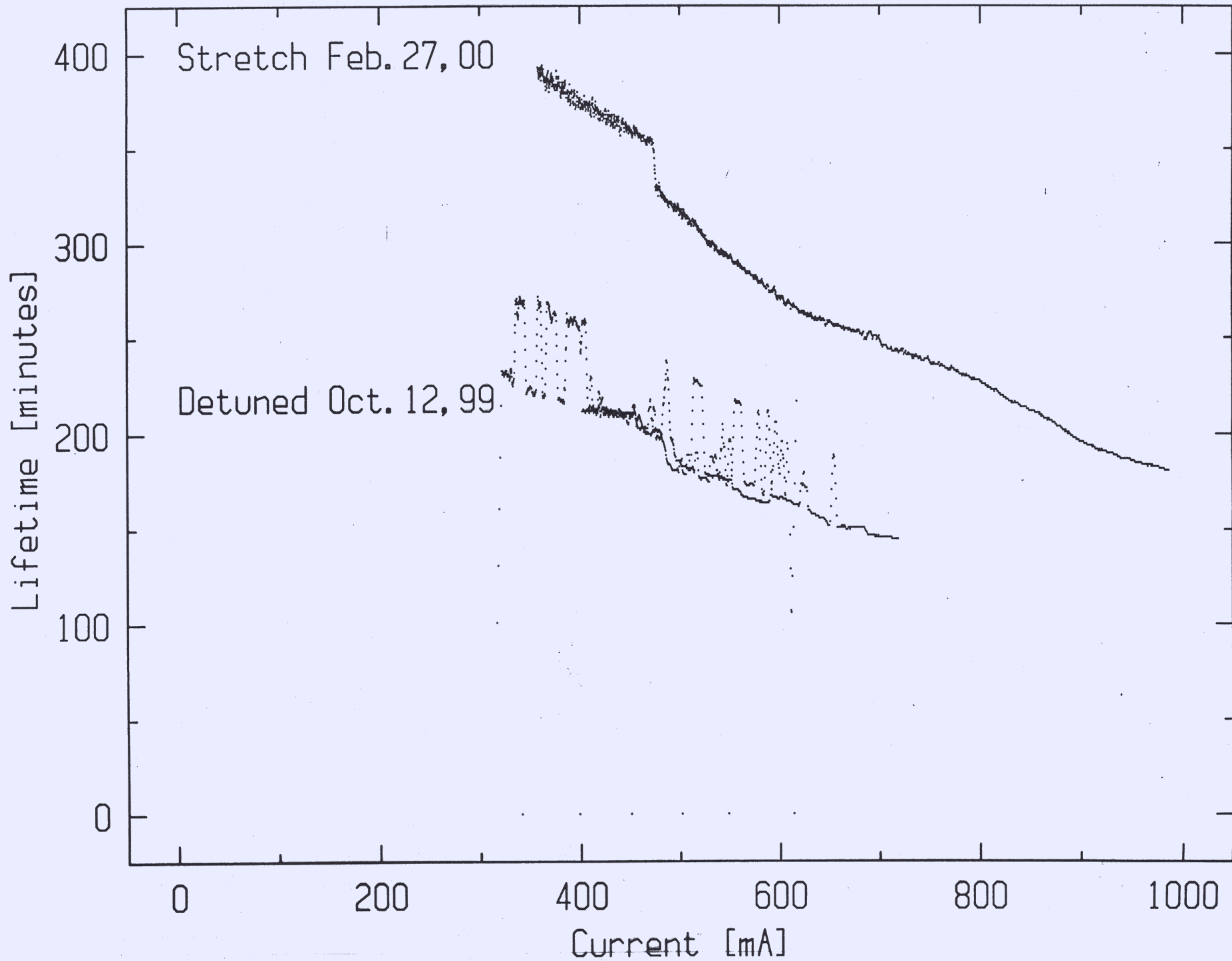


0.2714
50m/
10.19

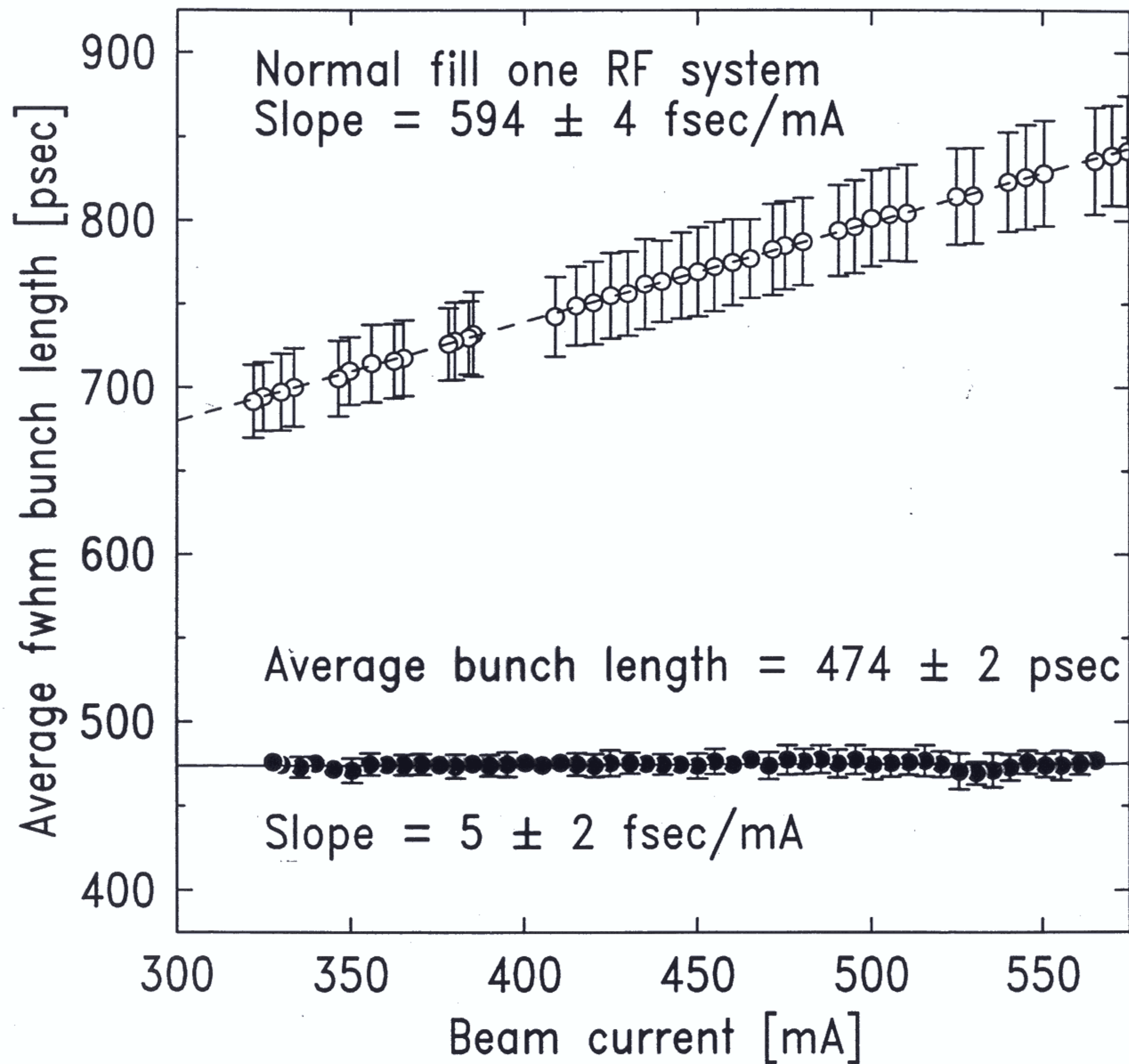
HHC LLRF.



VUV Current vs lifetime 7 Bunch Ops.



VUV Constant Bunch Length Run, 16 July 1999



Stretched = 1.7 - 2.0 ns.

01/Oct/1998 15:24:10, 496.5 mA, RF1 5 kV, op'n

-40
dBVrms
20/

U10IR

U4IR

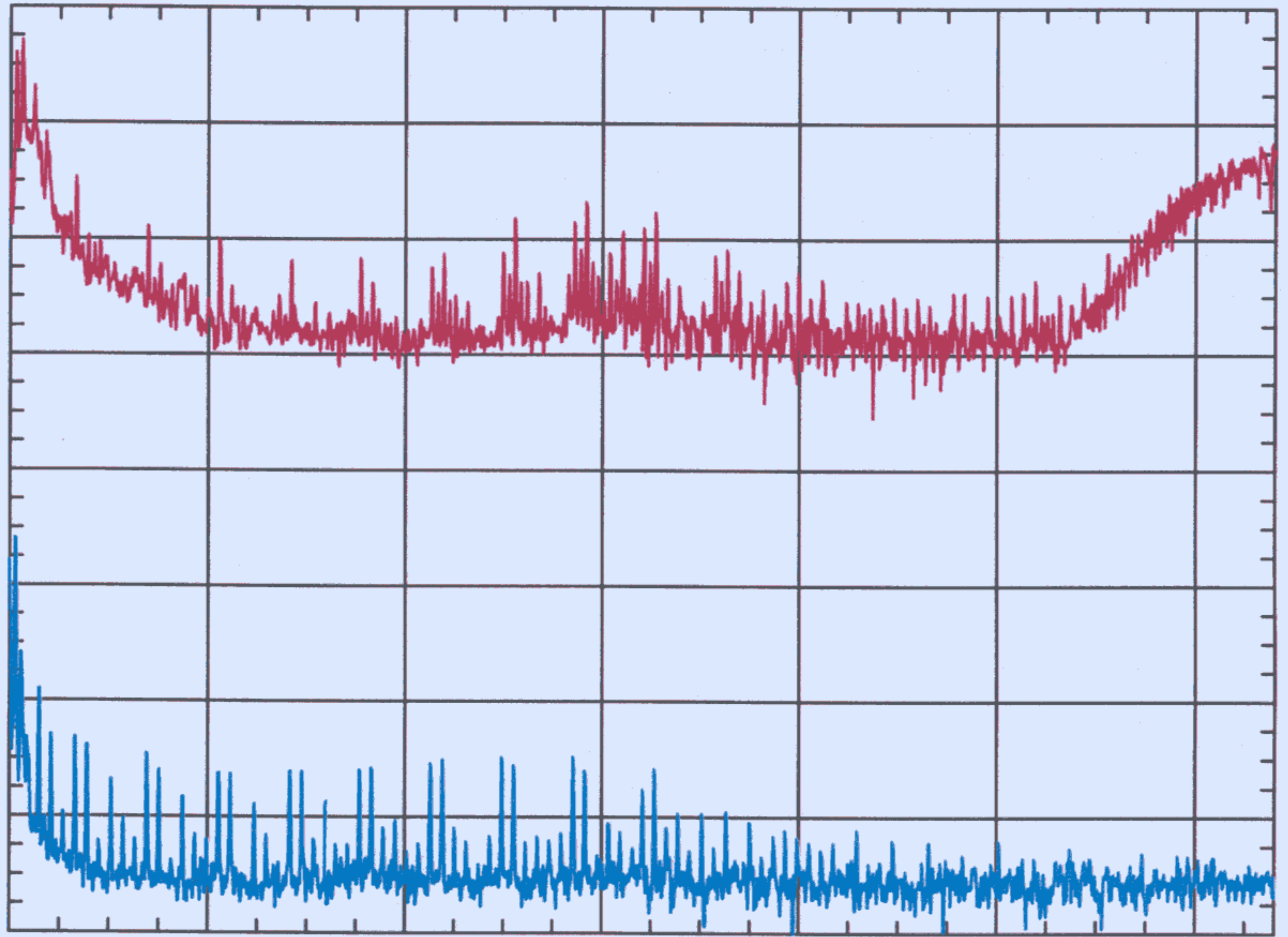
-200

0

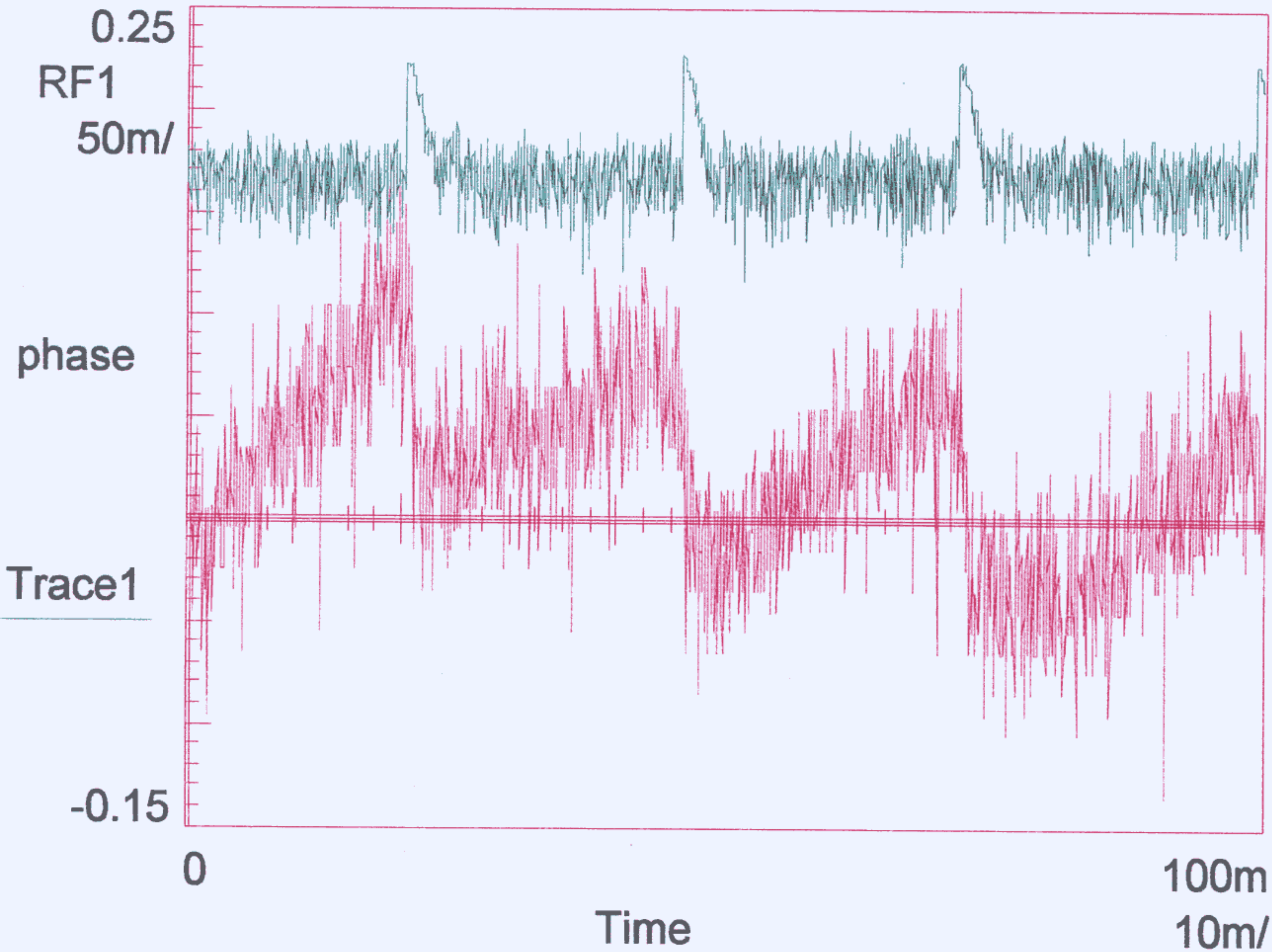
Frequency (Hz)

12.8k

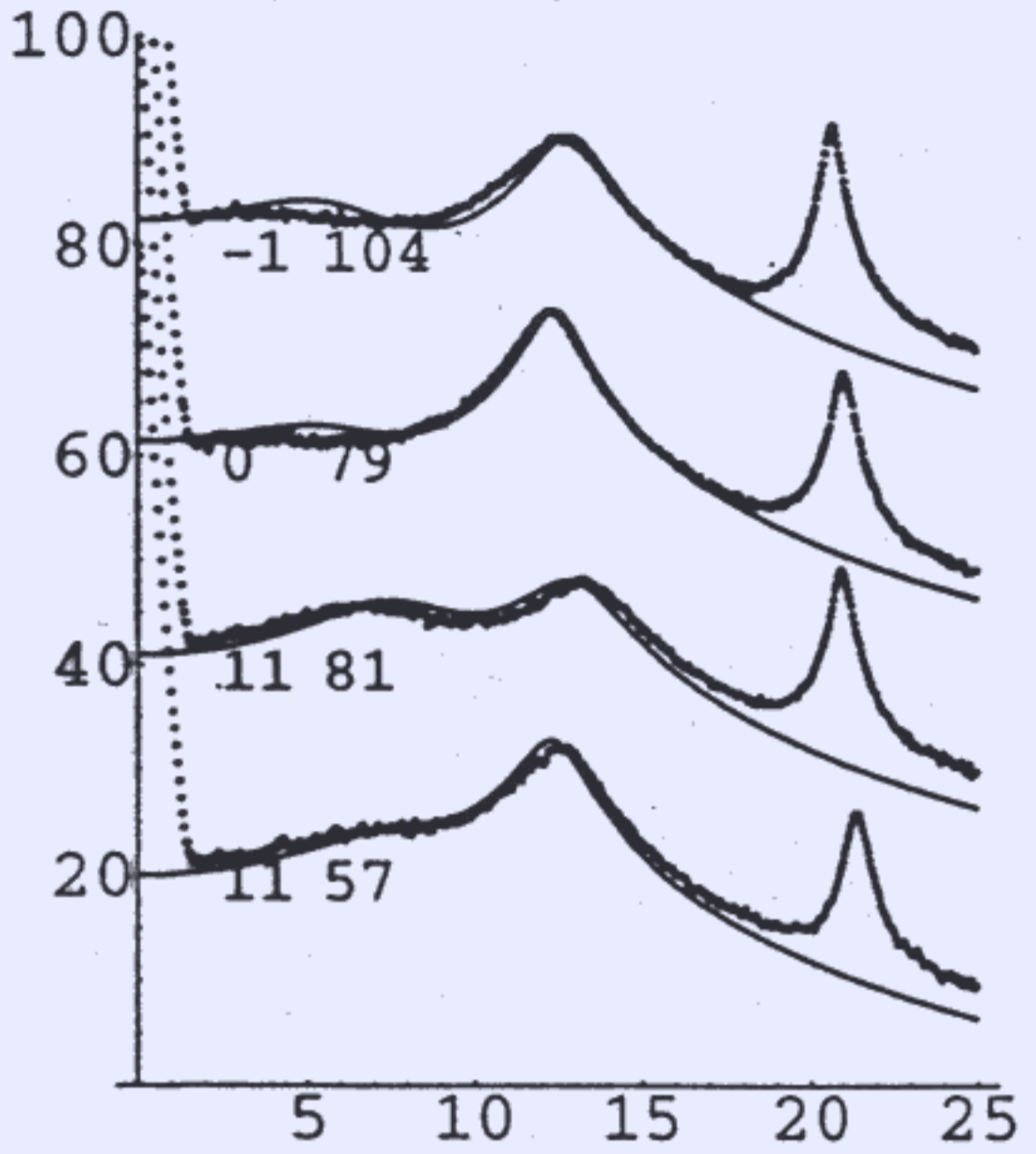
2E+03/



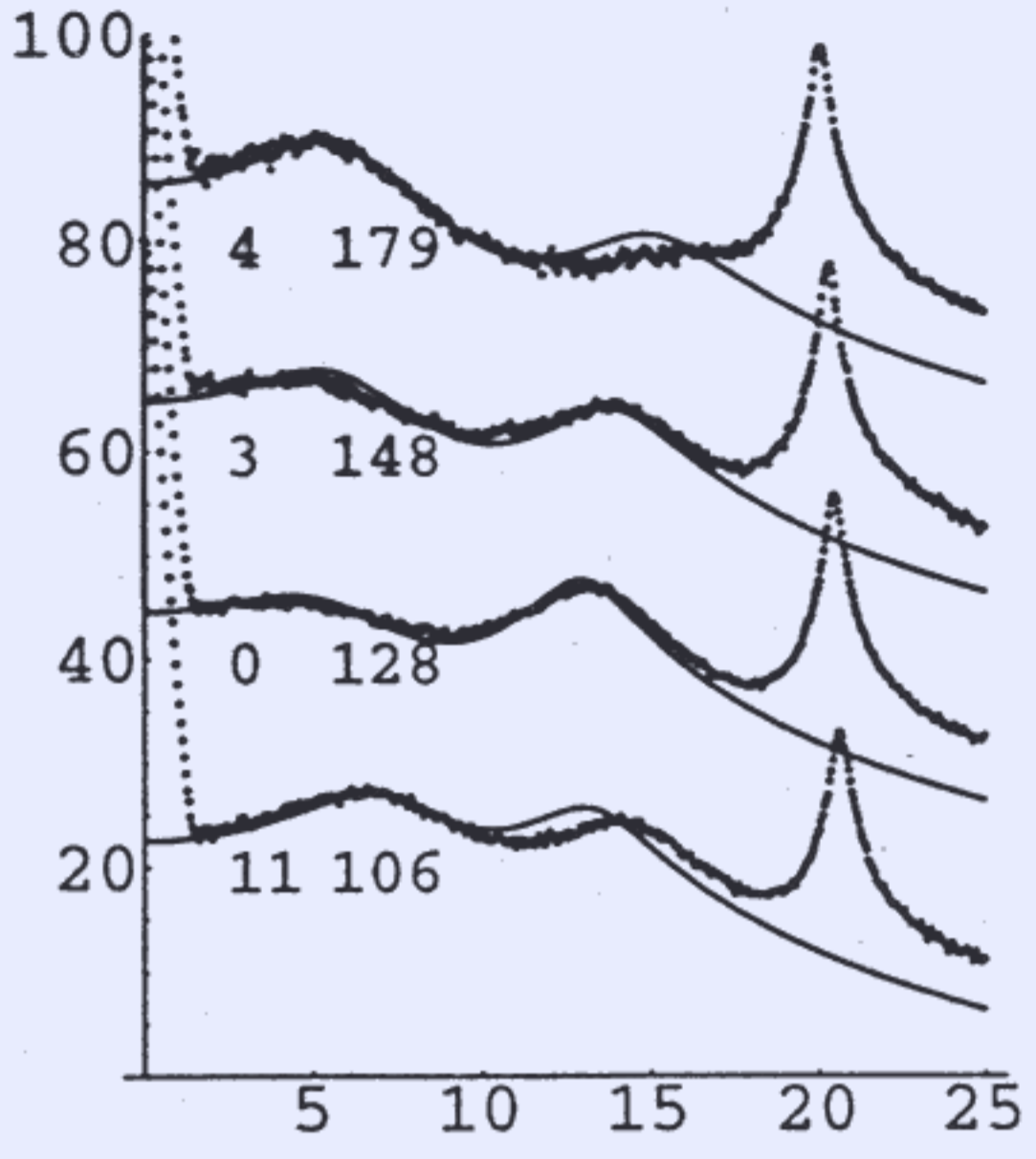
Tue 13/Apr/1999 12:30:07



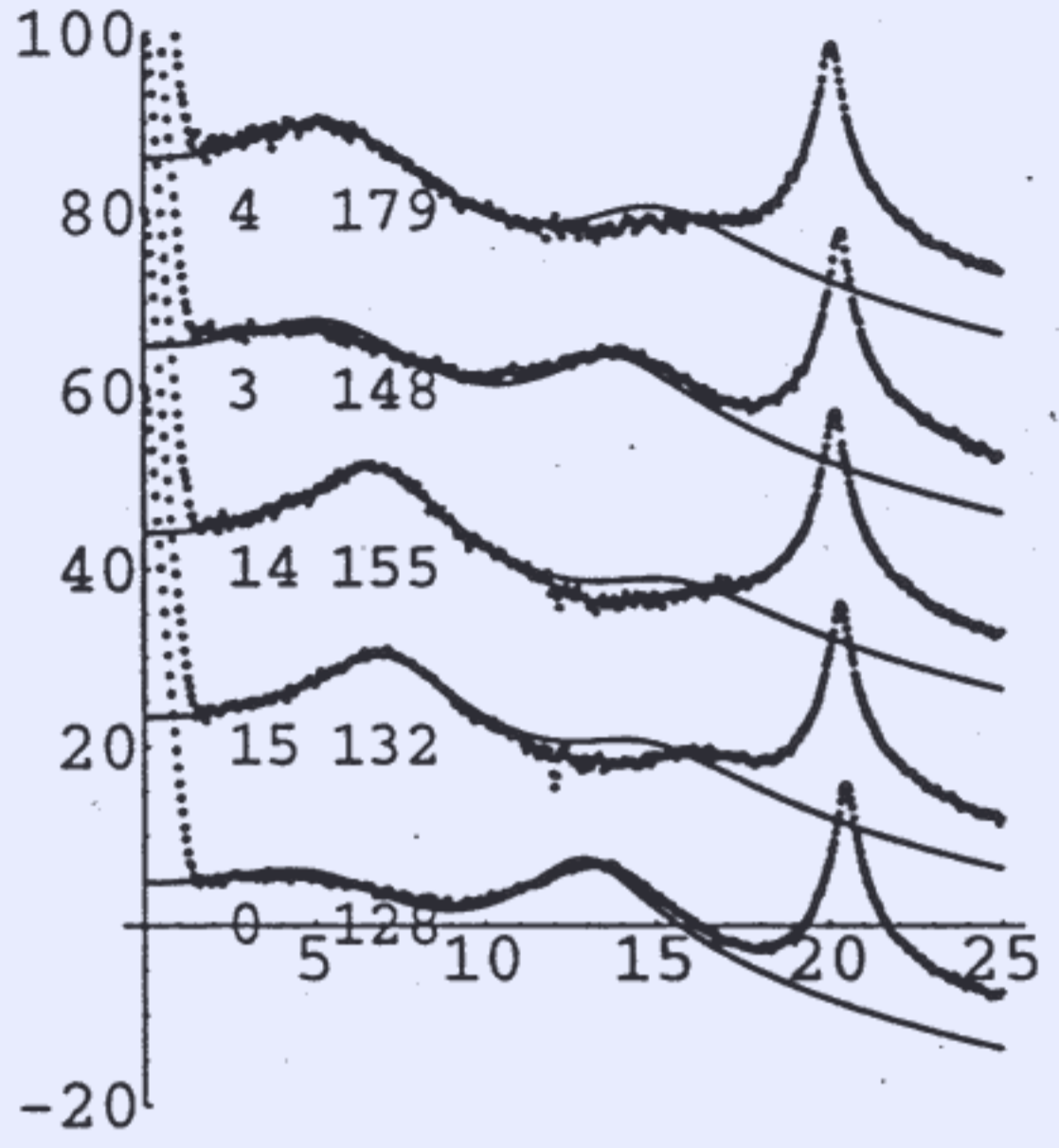
1.5 A



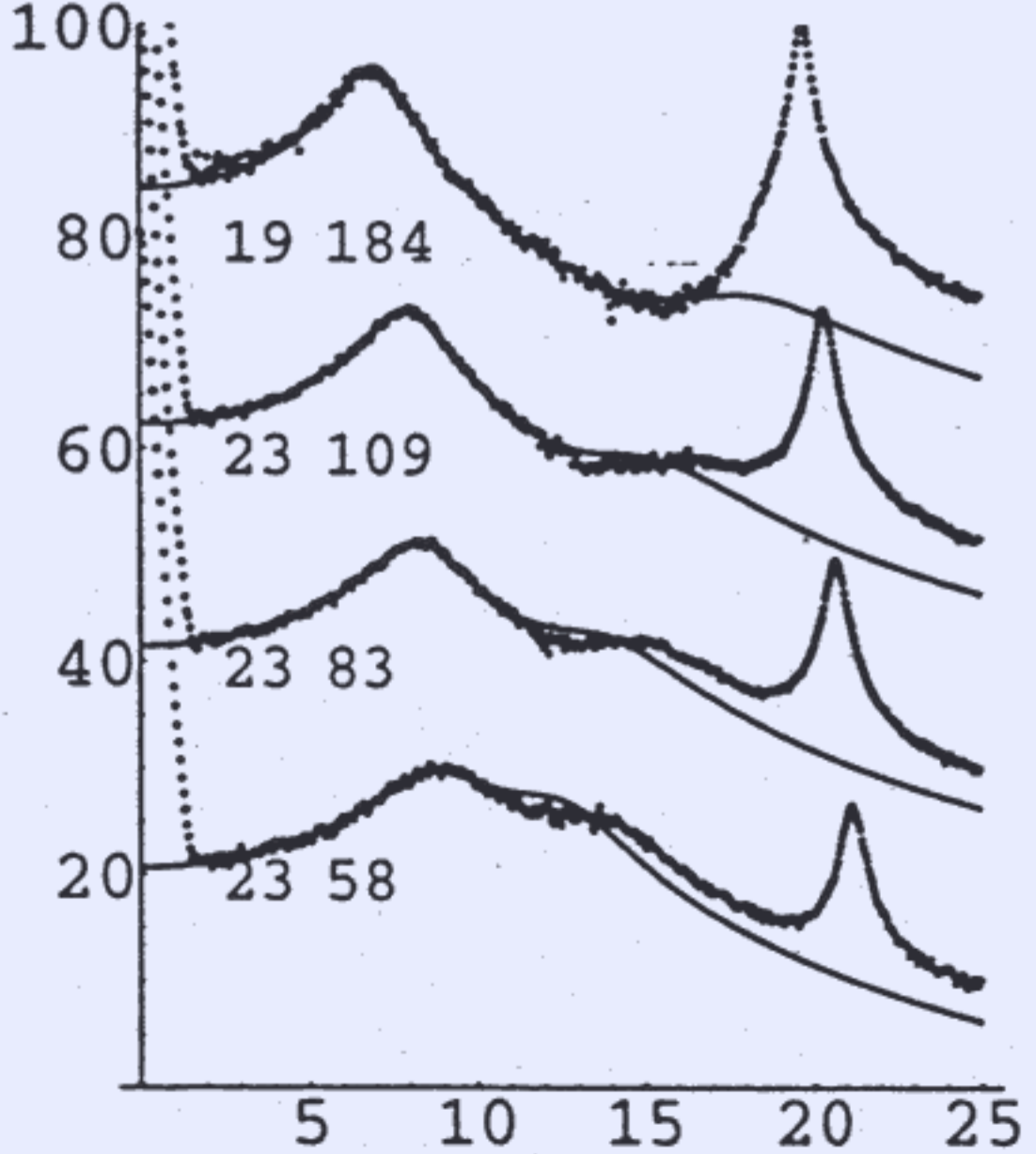
1.625 A



1.72 A



2.15 A



2.87 A

