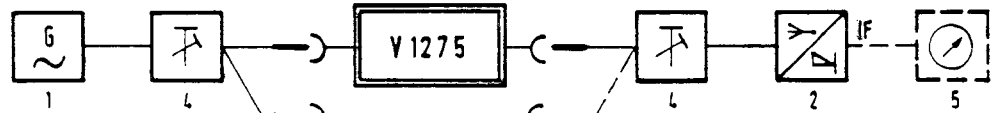


#### 4.4.4 Testing

##### 4.4.4.1 Measuring the Gain

Measuring set-up:



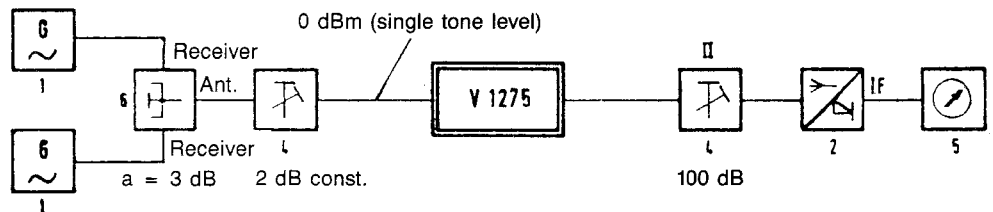
52.1996.003.47 (2)

(Numbers see Section 4.1)

Measure the gain in the frequency range from 1 to 30 MHz either by selective single measurements or with a wobulator equipment. The amplifier must be repaired or replaced if the actual gain readings deviate greatly from the nominal values specified in the technical data.

##### 4.4.4.2 Measuring the Intermodulation

Measuring set-up:



52.1996.003.47 (1)

Preparations:

Set the signal generator signal levels and the calibration line attenuation values according to the specifications given in the sketch of the measuring set-up above.

Receiver settings:

Service type A2/A3, bandwidth  $\pm 1.5$  kHz, manual gain control.

Tune the signal generator I and the receiver for combination frequency 5 MHz. Tune the signal generator II to a non-interfering frequency.

With the receiver manual gain control, adjust for IF signal level reading of 0 dB or  $-5$  dB on meter (5) in the measuring ranges 30 or 100 mV as reference level.

**Measuring process for IM 2:**

Tune signal generator I to 9 MHz and signal generator II to 14 MHz (giving combination frequency  $f_2 - f_1 = 5$  MHz).