

EXHIBIT 7

RF Output Power

Exhibit Summary:

EXHIBIT 7 contains both average and peak output powers for the mobile station. The peak power results are presented in the form of a time mask which illustrates the deviation in power with respect to the average value. In all cases, the peak output power is within the required mask (this mask is specified in the JTC standards, TIA PN3389 Vol. 1, Chap. 7, and is not an FCC requirement).

Contents:

Method of Measurement	2
Measurement Limit	2
Average Output Powers	2
Time Masks	
Carrier 1850.2 Mhz Power Step 0	3
Carrier 1880.2 Mhz Power Step 0	4
Carrier 1909.8 Mhz Power Step 0	5

Method of Measurement:

1. Setup the mobile station for maximum output power with pseudo random data modulation.
2. Use HP 8991A Peak Power Analyzer to obtain time mask, peak ,and average output power levels.
3. Repeat measurements for carrier frequencies at 1850.2 Mhz, 1880.2 Mhz, and 1909.8 Mhz. Channels 512, 662, and 810 respectively (bottom, middle, and top of operational frequency range).
4. Repeat for power steps 15 (low power level).
5. For time mask plots put the mobile station into a simulated call with an HP 8922H GSM Test Set, plot out graphical representations of the rising, middle, and falling portions of the transmit burst.
6. Repeat for Channels 512, 662, and 810 and for high power levels.

Measurement Limits:

Power Step	Nominal Peak Output Power (dBm)	Tolerance (dB)
0	30	+/- 2
15	4.35	+/- 4

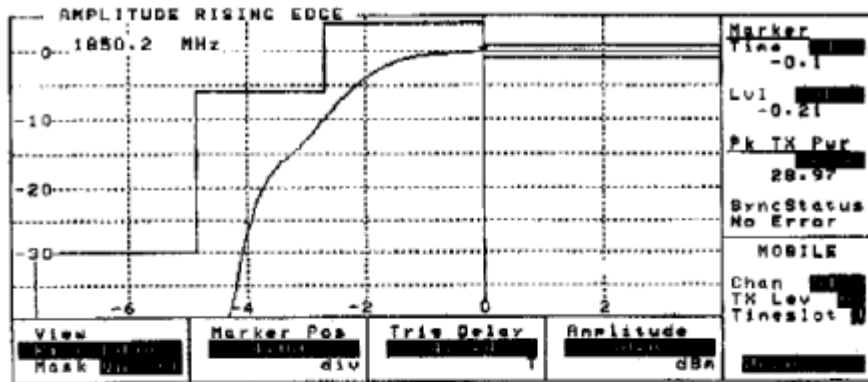
Table 7.1

Power Measurements:

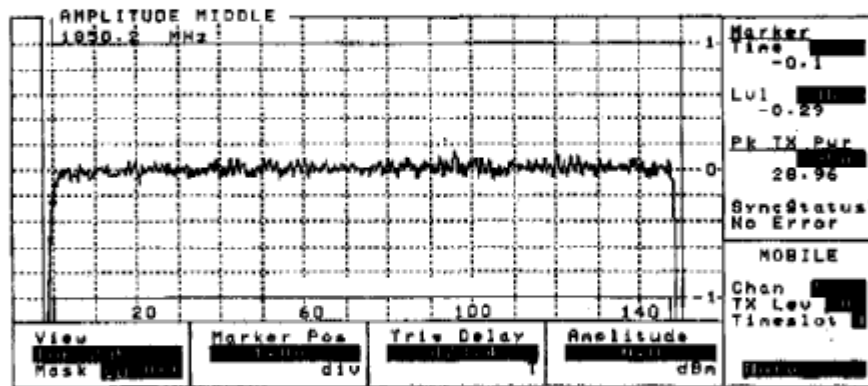
Frequency (MHz)	Power Step	Peak Output Power (dBm)	Average Output Power (dBm)
1850.2	0	30.28	14.38
1850.2	15	4.34	-5.13
1880.2	0	28.85	14.14
1880.2	15	4.34	-9.85
1909.8	0	28.54	13.73
1909.8	15	4.35	-10.98

Table 7.2

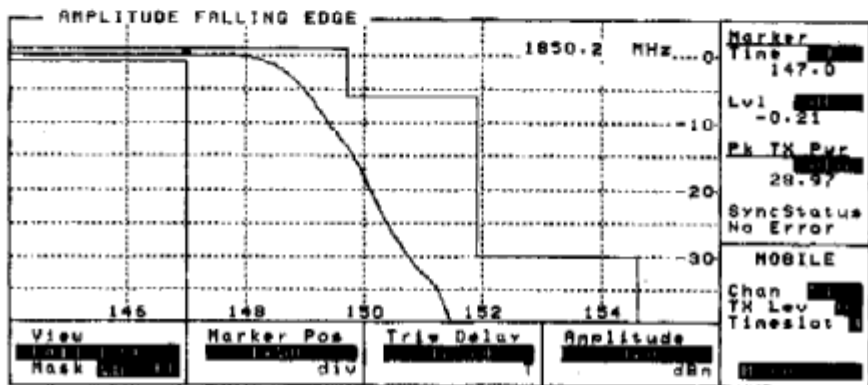
HP 8922M GSM MS Test Set: 05/05/98 09:54:00 am



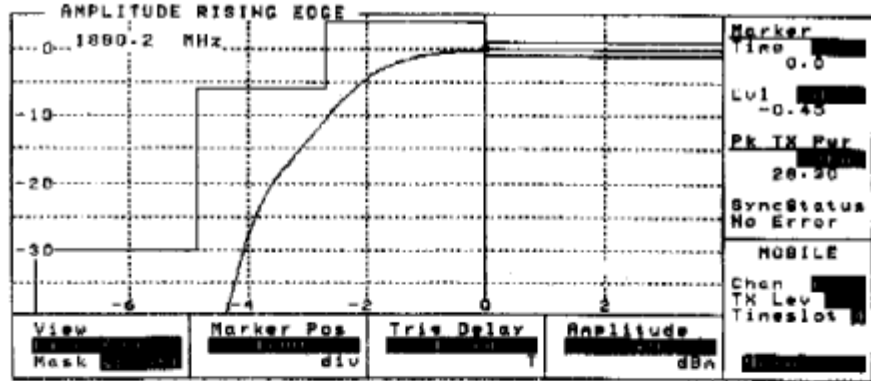
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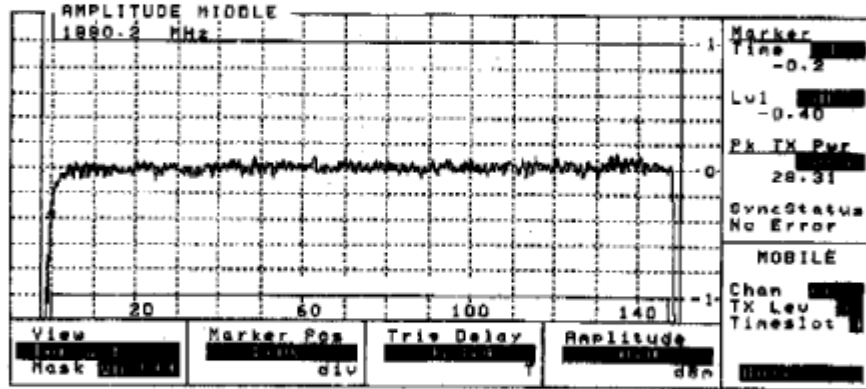
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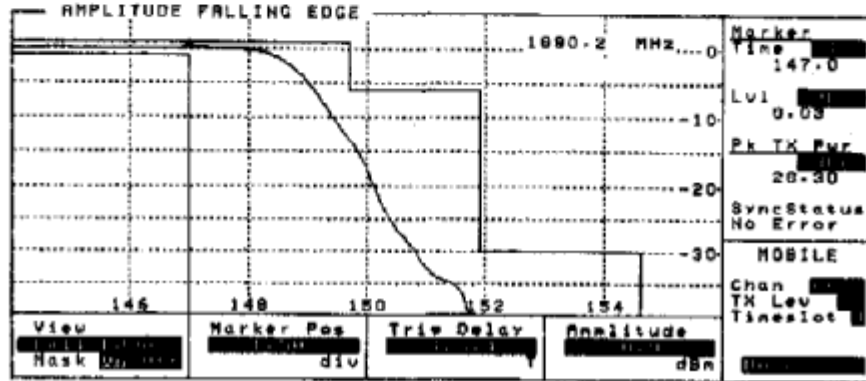
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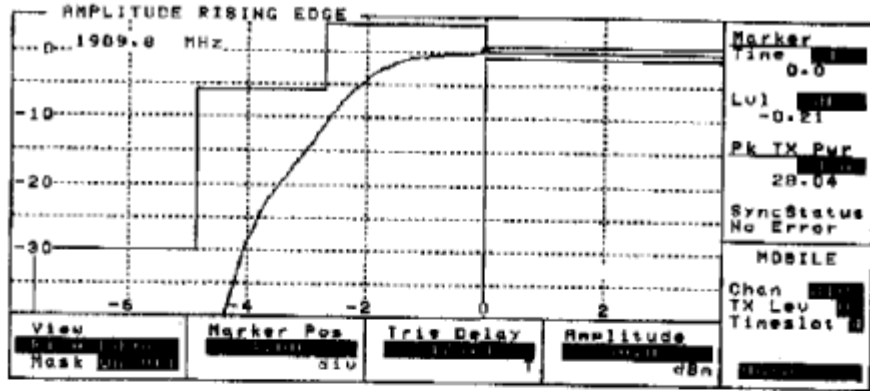
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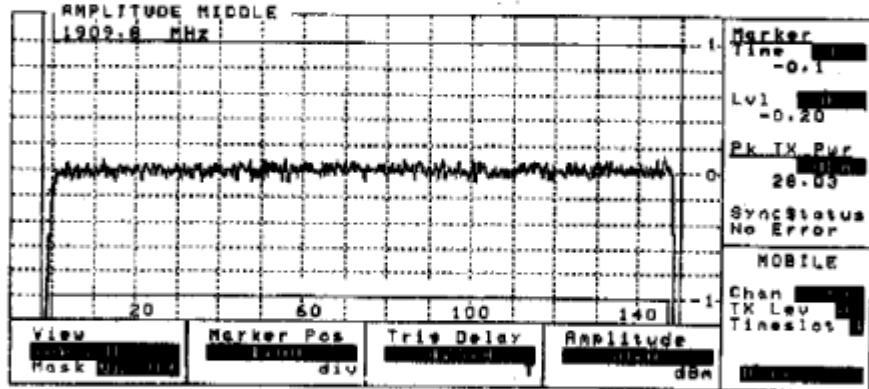
HP 8922H GSM NB Test Set: 05/05/98 10:24:00 pm



HP 8922M GSM MS Test Set: 05/05/98 10:16:00 pm



HP 8922M GSM MS Test Set: 05/05/98 10:15:00 pm



HP 8922M GSM MS Test Set: 05/05/98 10:16:00 pm

