

Figure 10—(a) Schematic representation of transfer functions associated with instrumentation in the satellite and at the ground station. (b) Three-dimensional representation of the response of the five-channel scanning radiometer. (c) The response of the voltage controlled oscillator shown as a parametric function of the electronics temperature T_E . (d) Conversion from subcarrier frequency to digital number.

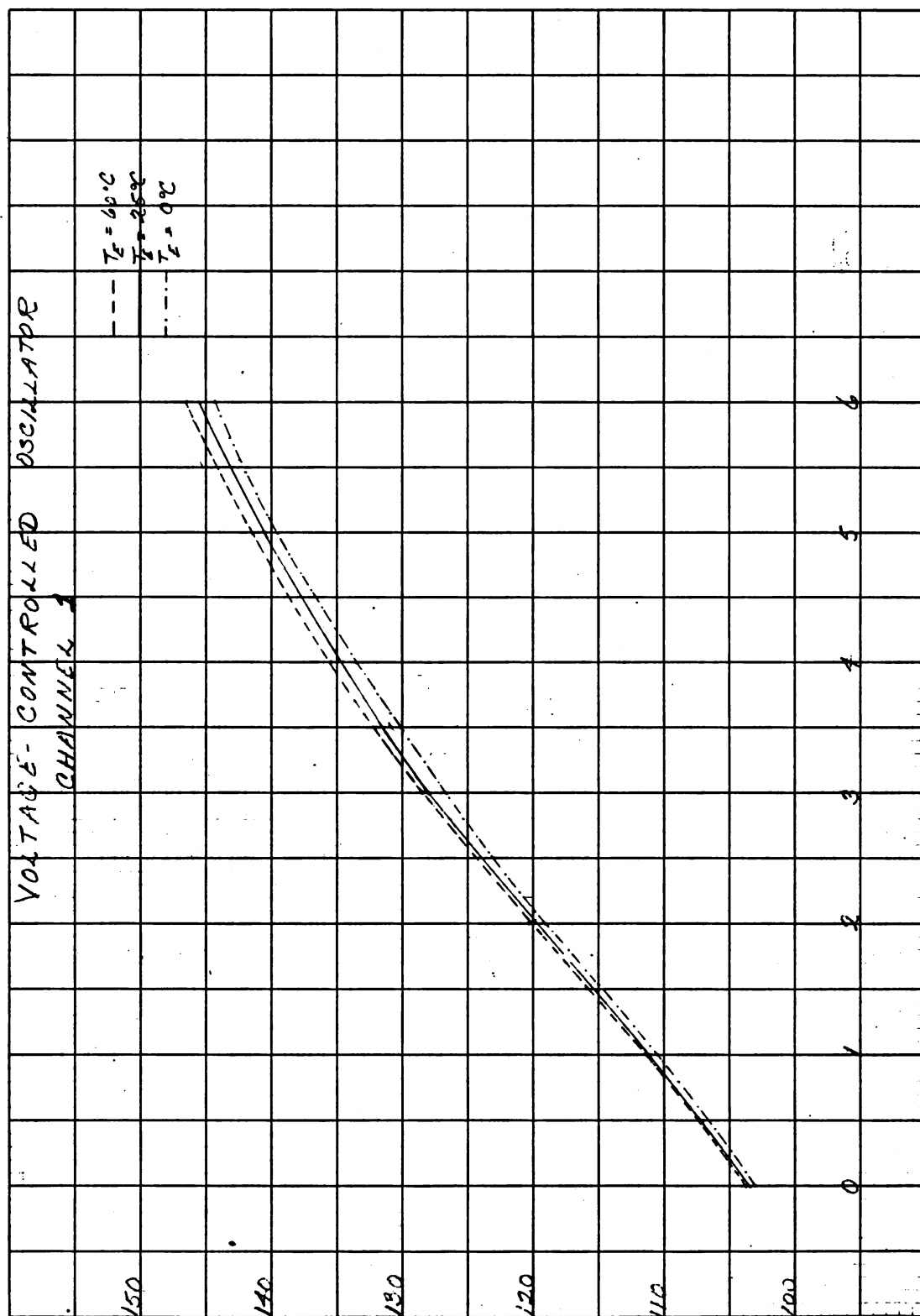


Figure 11—The response of the voltage controlled oscillator for Channel 1 shown as a parametric function of the electronics temperature, T_e .

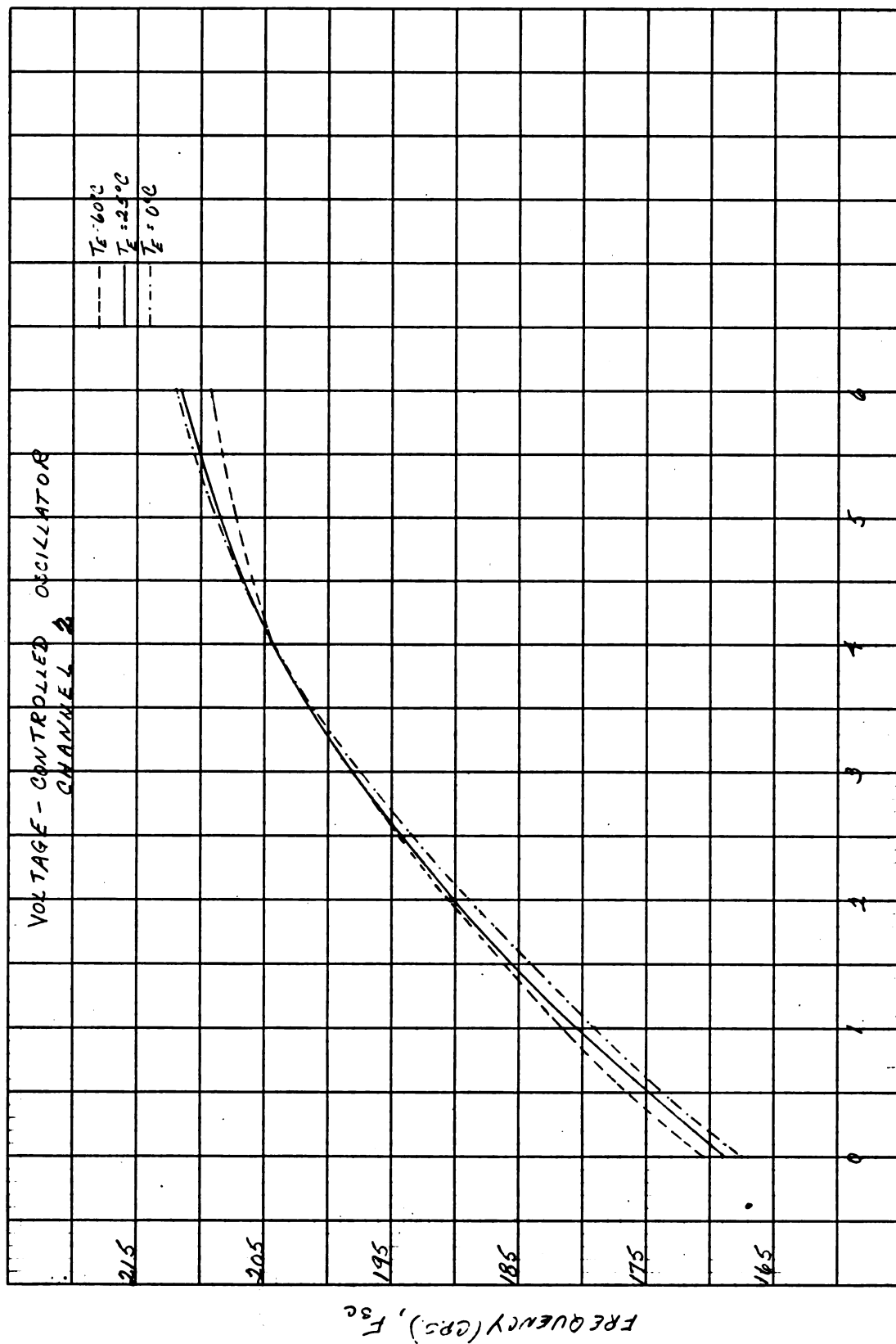


Figure 12.—The response of the voltage controlled oscillator for Channel 2 shown as a parametric function of the electronics temperature, T_F .

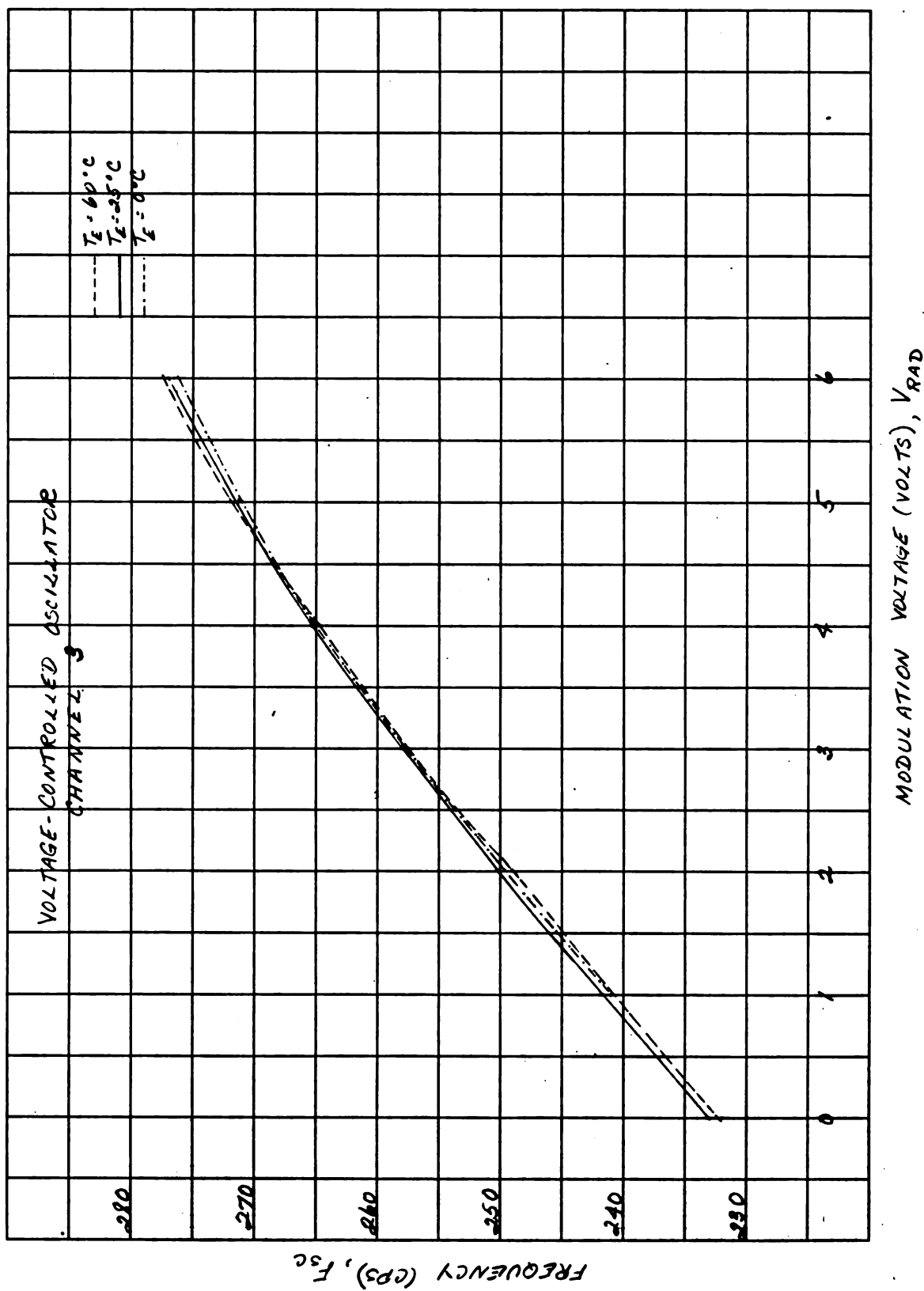
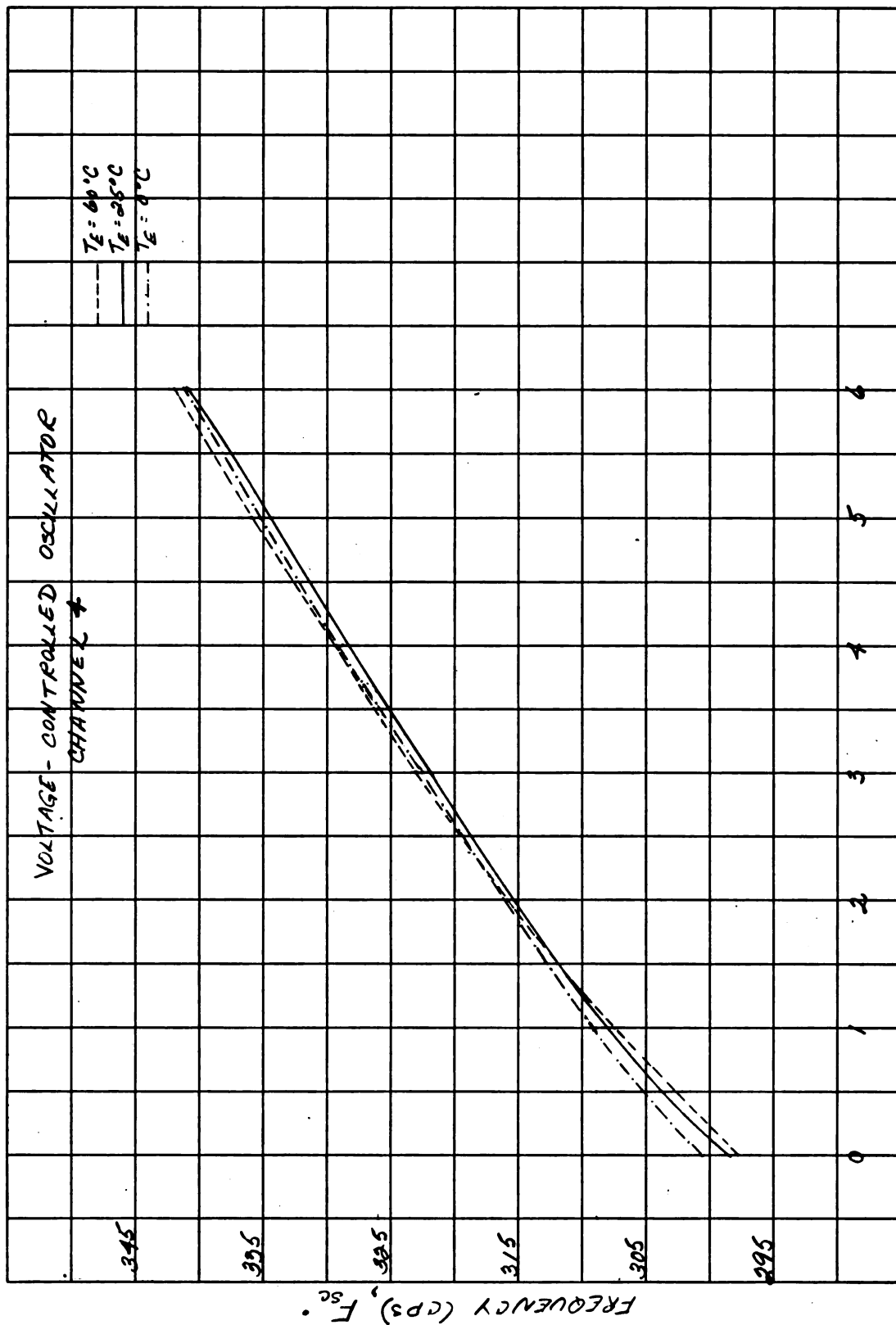


Figure 13—The response of the voltage controlled oscillator for Channel 3 shown as a parametric function of the electronics temperature, T_e .



MODULATION VOLTAGE (VOLTS), V_{RAD}

Figure 14—The response of the voltage controlled oscillator for Channel 4 shown as a parametric function of the electronics temperature, T_E .

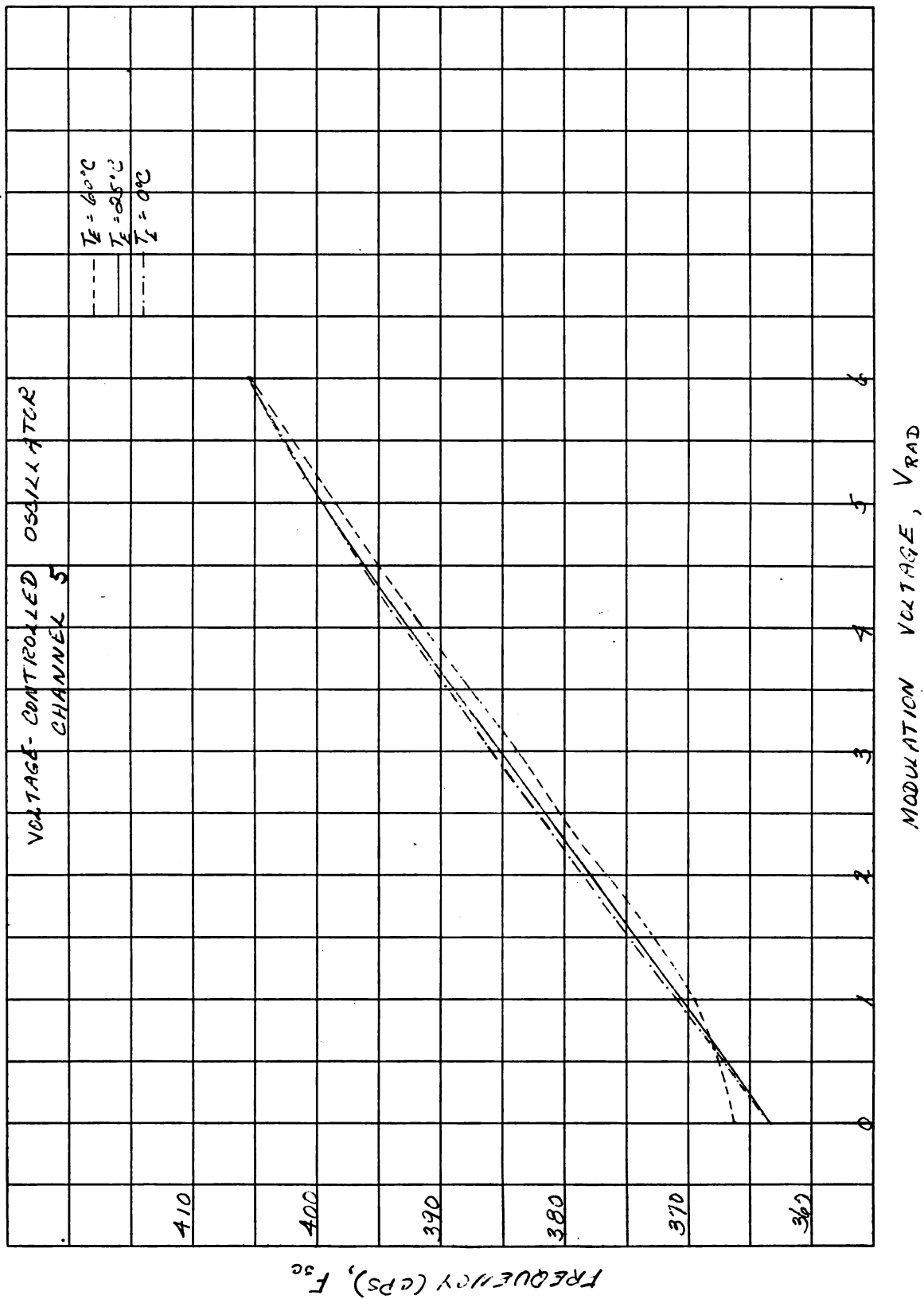


Figure 15—The response of the voltage controlled oscillator for Channel 5 shown as a parametric function of the electronics temperature, T_e .

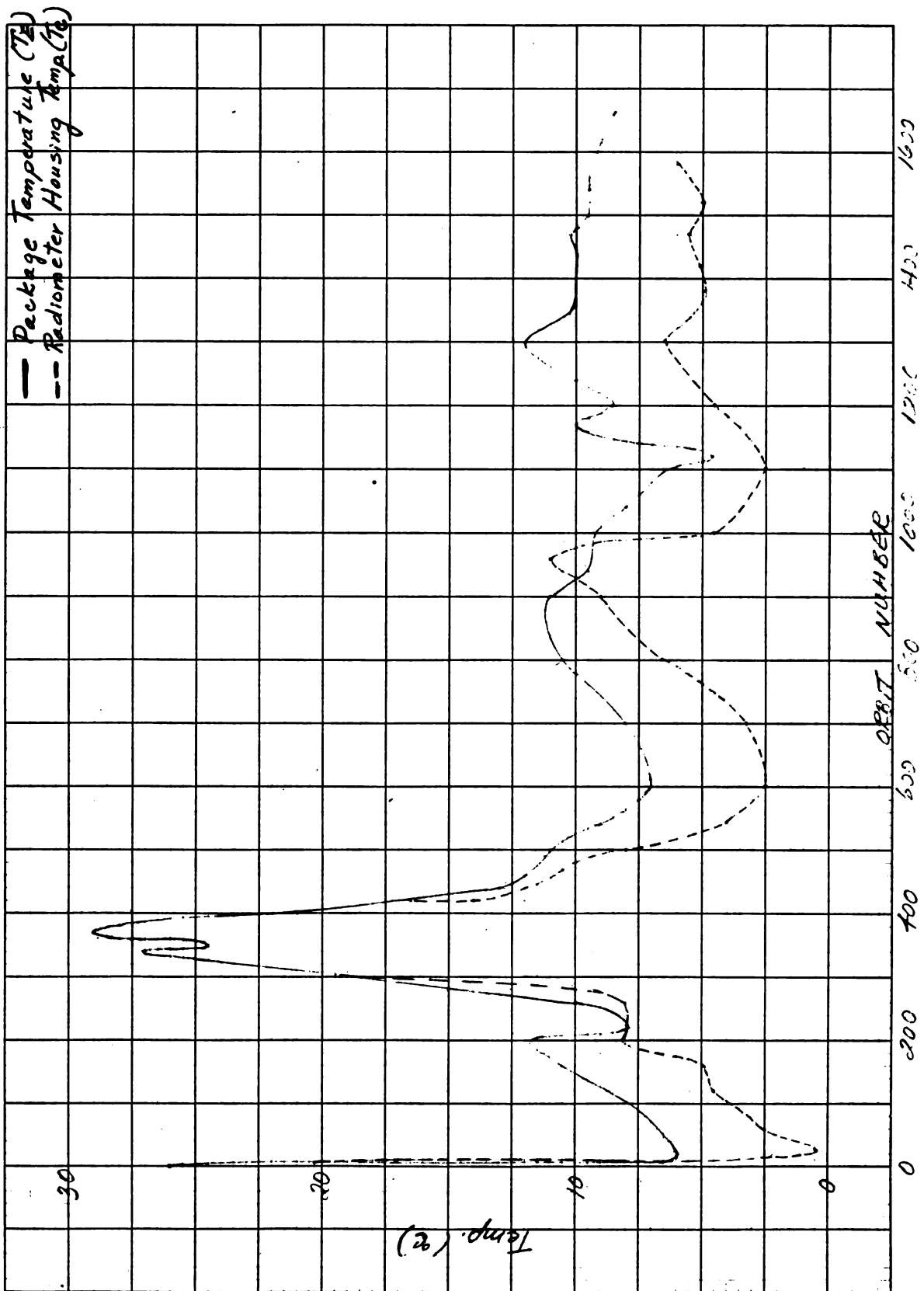


Figure 16—A temperature comparison of T_c and T_r for TIROS III.

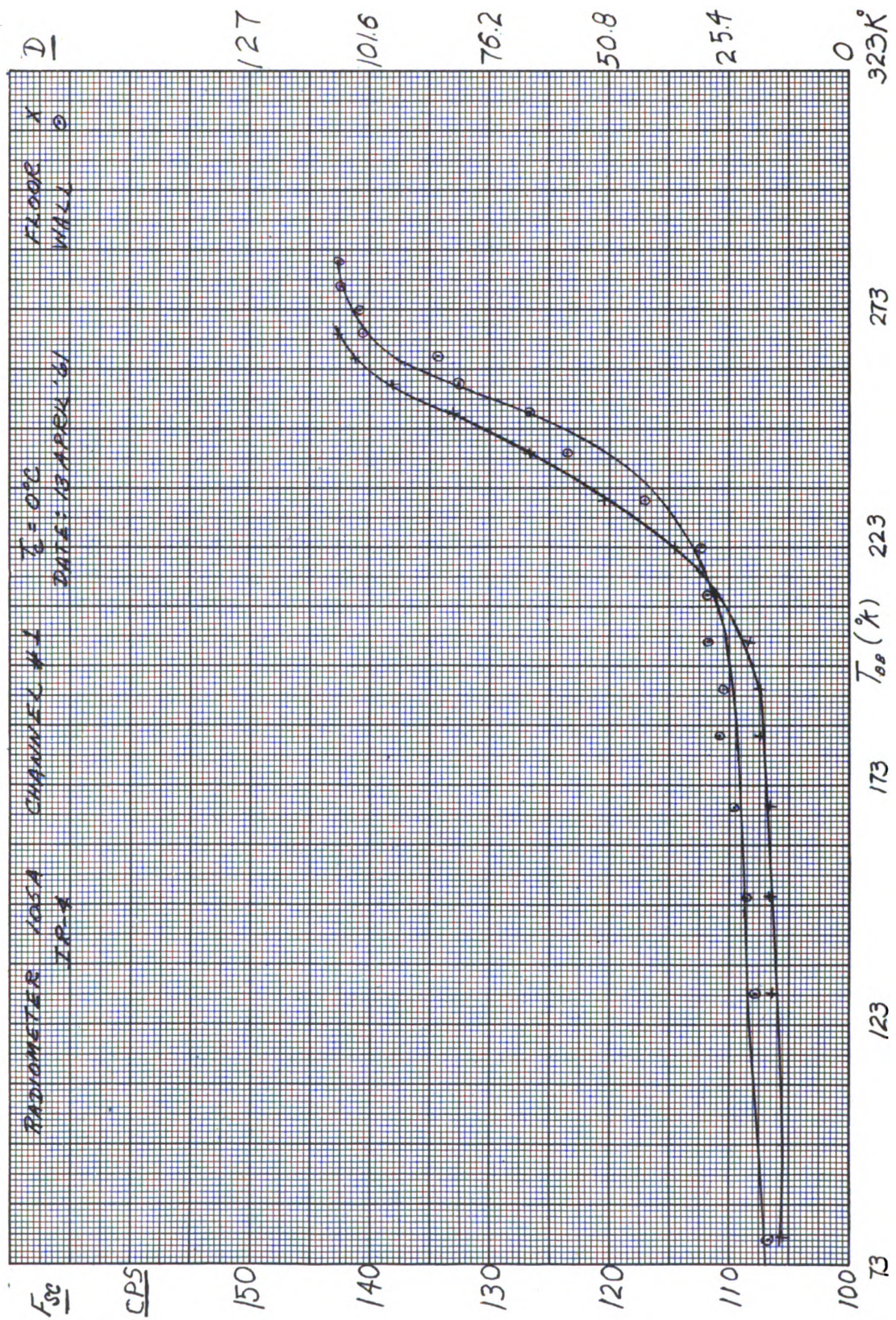


Figure 17—Subcarrier frequency and digital number versus blackbody temperature for wall and floor sides, Channel 1.

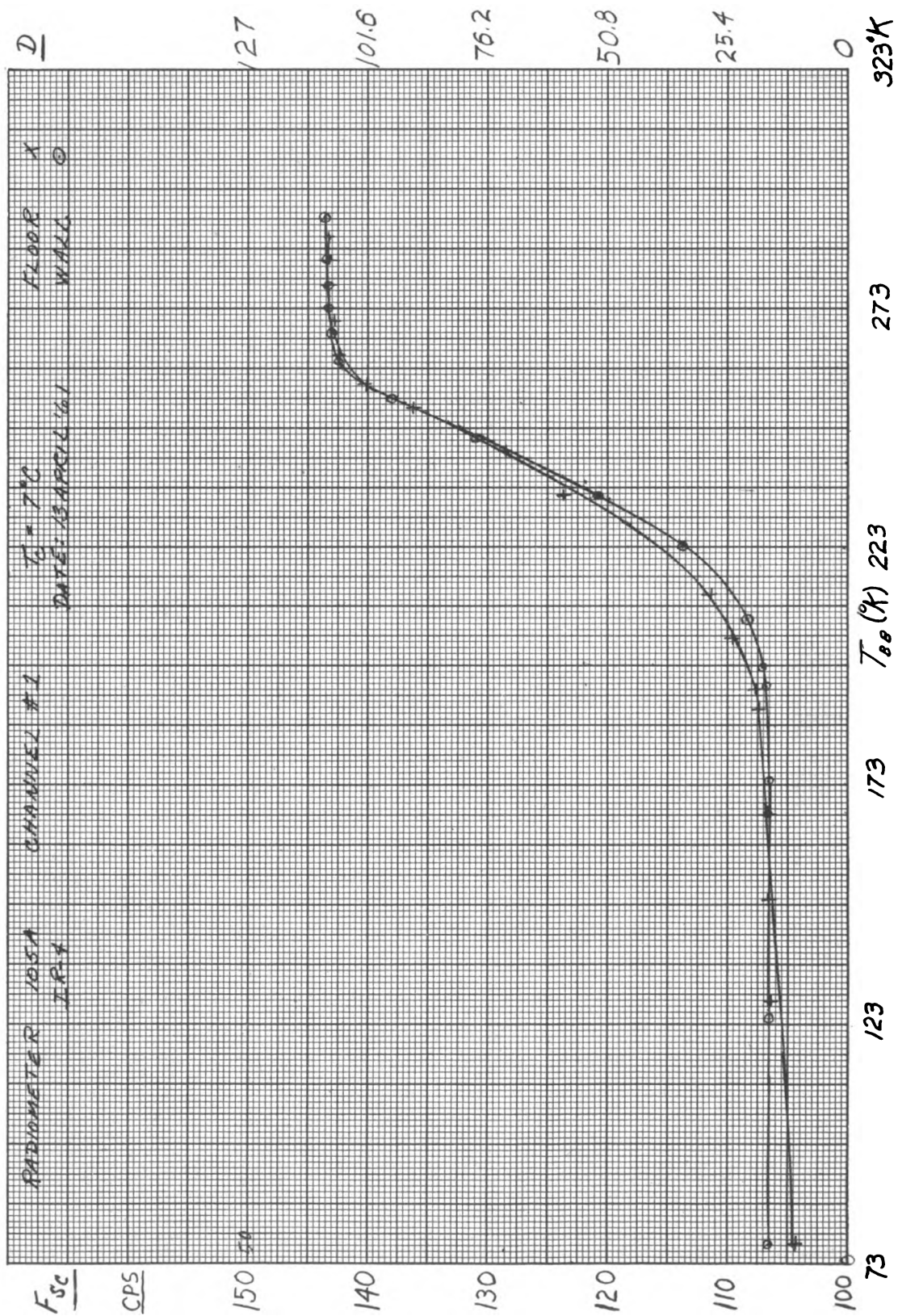


Figure 18—Subcarrier frequency and digital number versus blackbody temperature for wall and floor sides, Channel 1.
($T_c = 7^\circ\text{C}$)

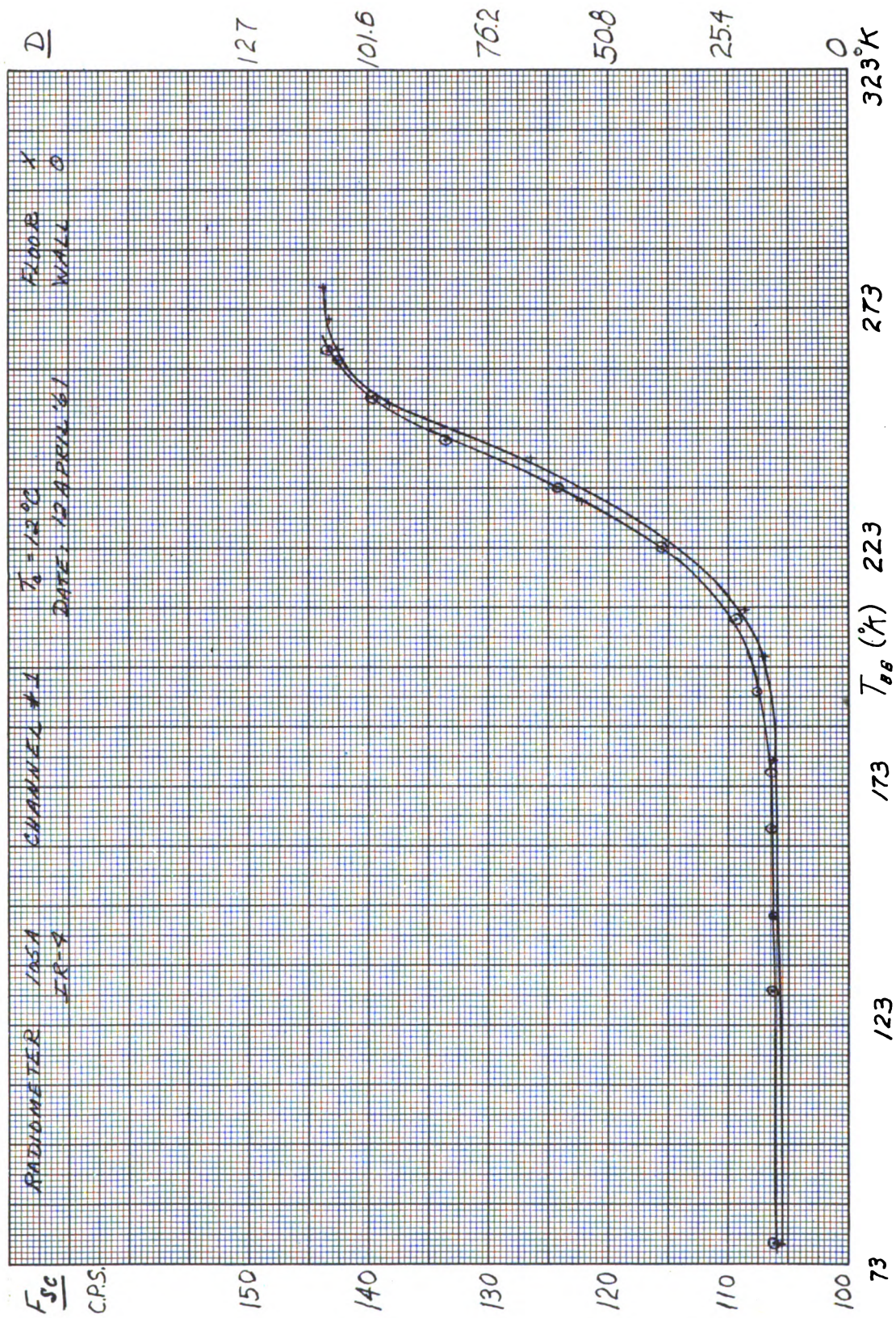


Figure 19—Subcarrier frequency and digital number versus blackbody temperature for wall and floor sides, Channel 1.
($T_c = 12^\circ\text{C}$)

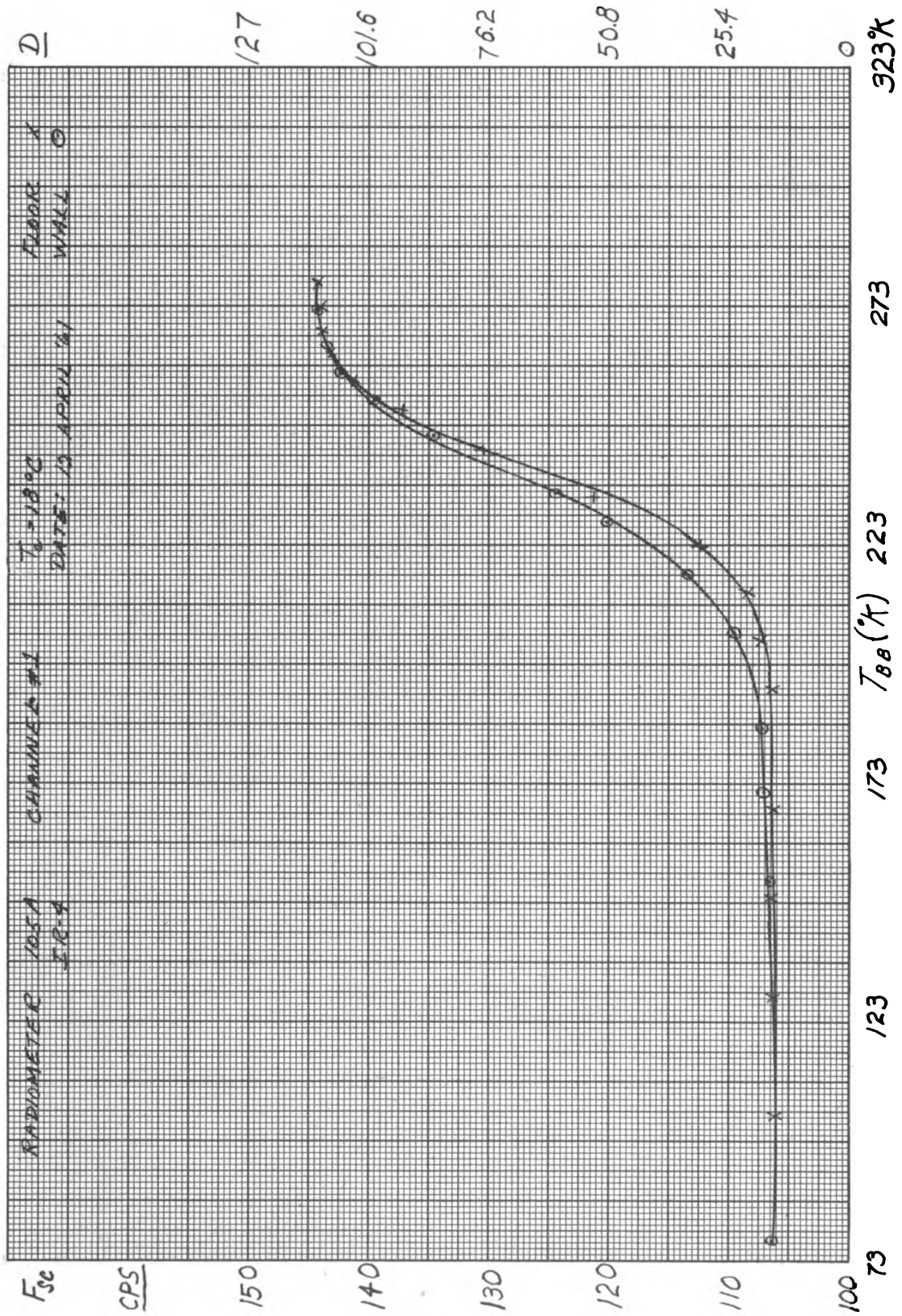


Figure 20—Subcarrier frequency and digital number versus blackbody temperature for wall and floor sides, Channel 1.
($T_c = 18^\circ\text{C}$)

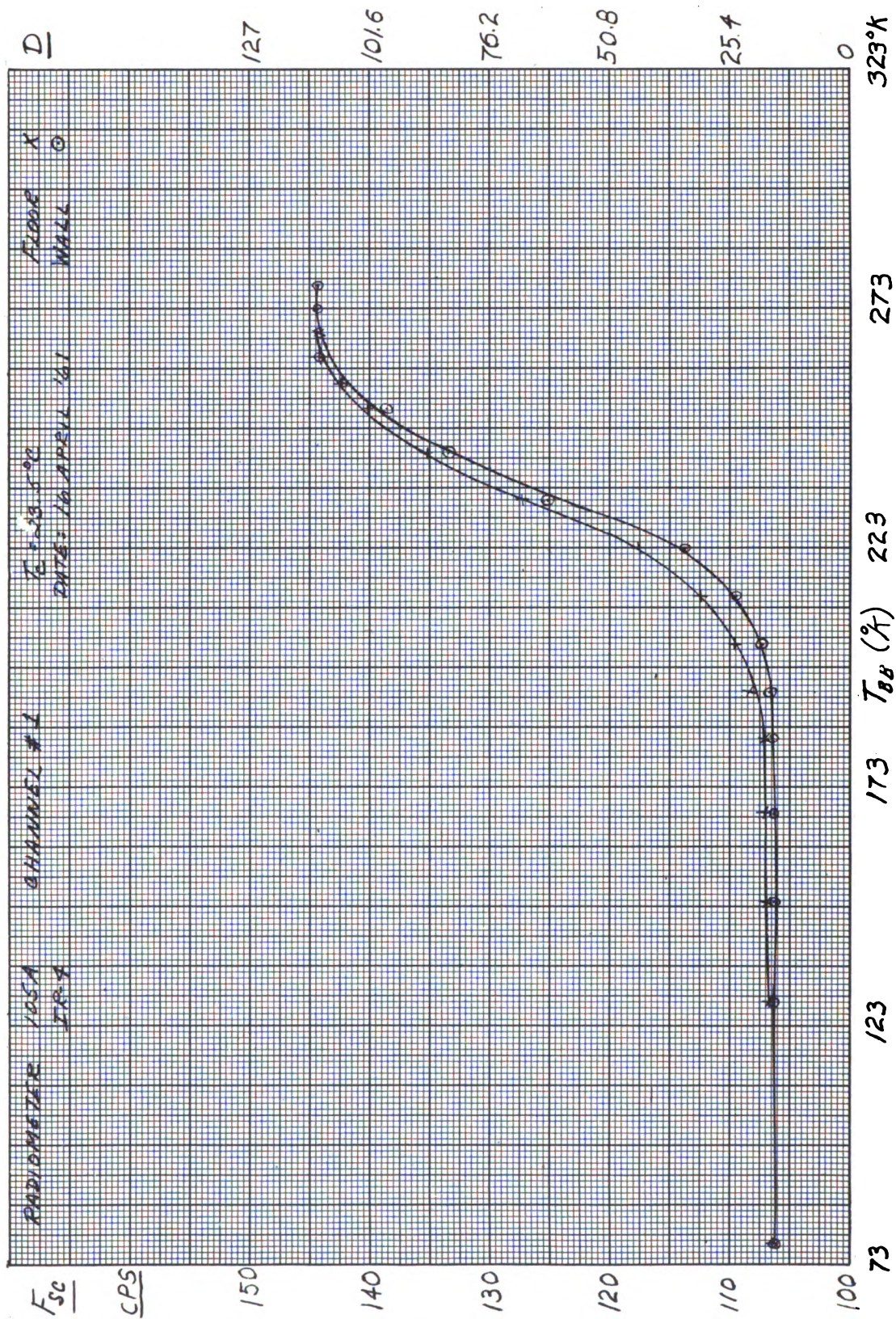


Figure 21—Subcarrier frequency and digital number vs. blackbody temperature for wall and floor sides, Channel 1.
($T_c = 23.5^{\circ}C$)

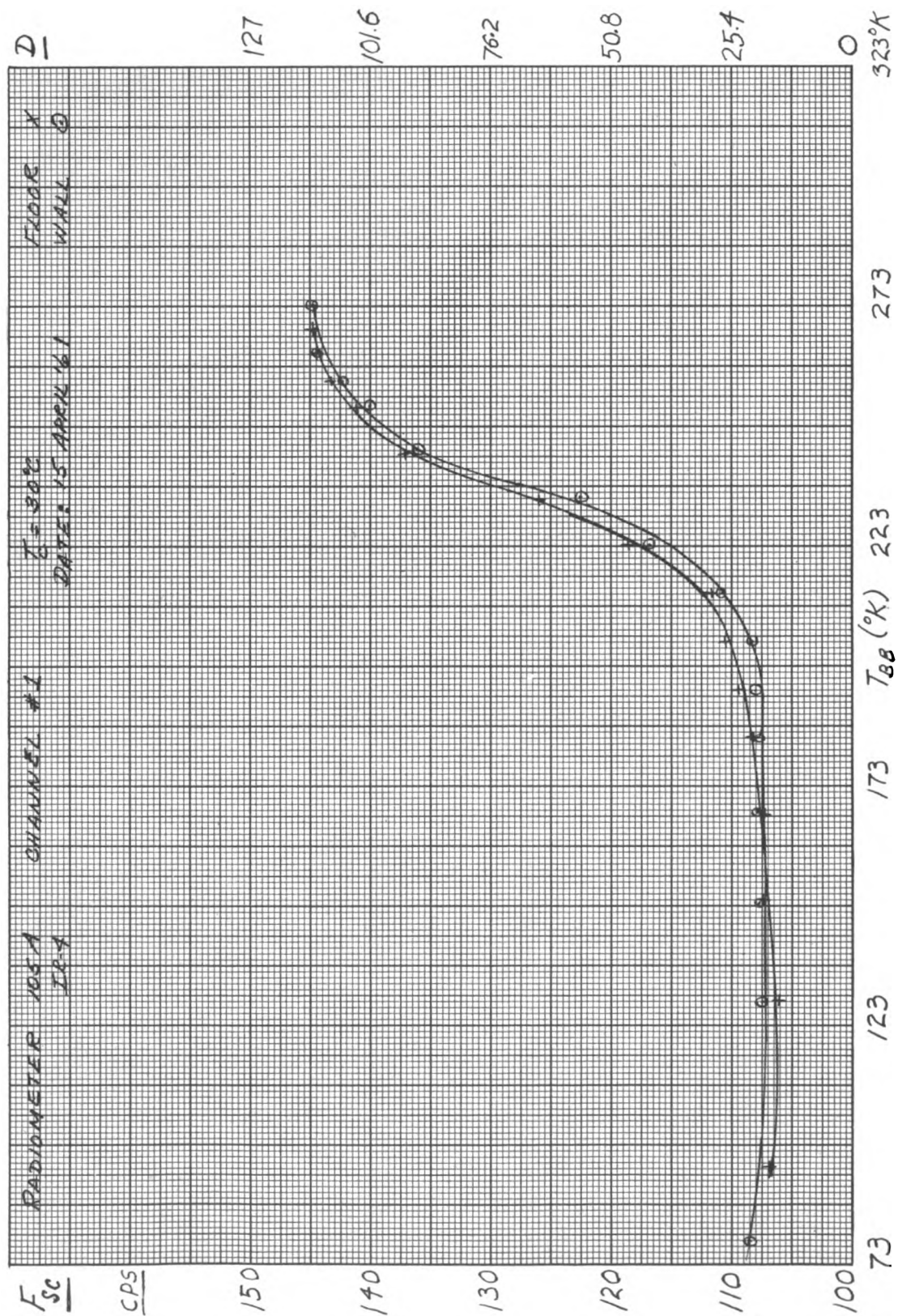


Figure 22—Subcarrier frequency and digital number vs. blackbody temperature for wall and floor sides, Channel 1.
 $(T_c = 30^\circ\text{C})$

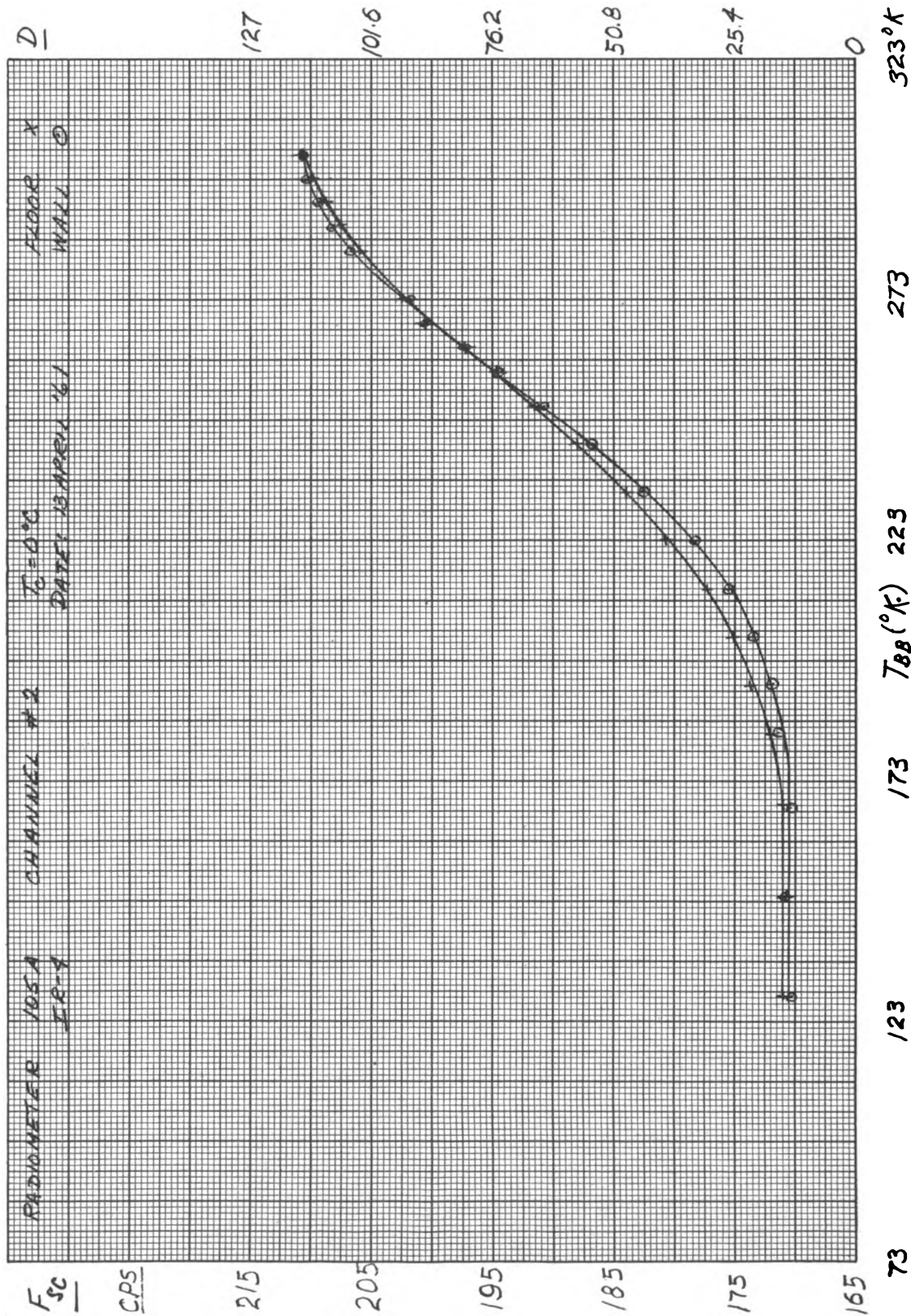


Figure 23—Subcarrier frequency and digital number vs. blackbody temperature for wall and floor sides, Channel 2.

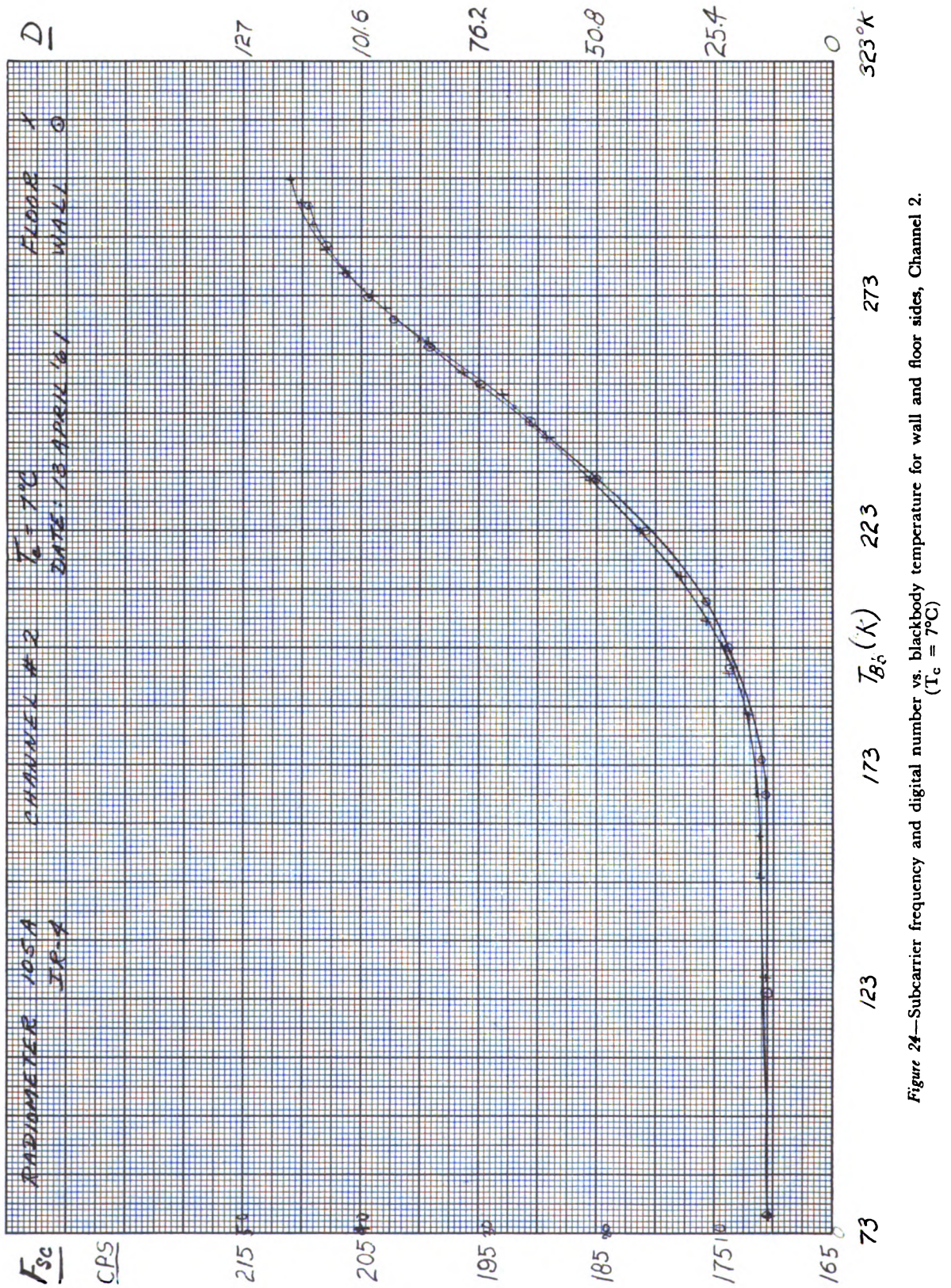


Figure 24—Subcarrier frequency and digital number vs. blackbody temperature for wall and floor sides, Channel 2.
 $(T_c = 7^\circ\text{C})$

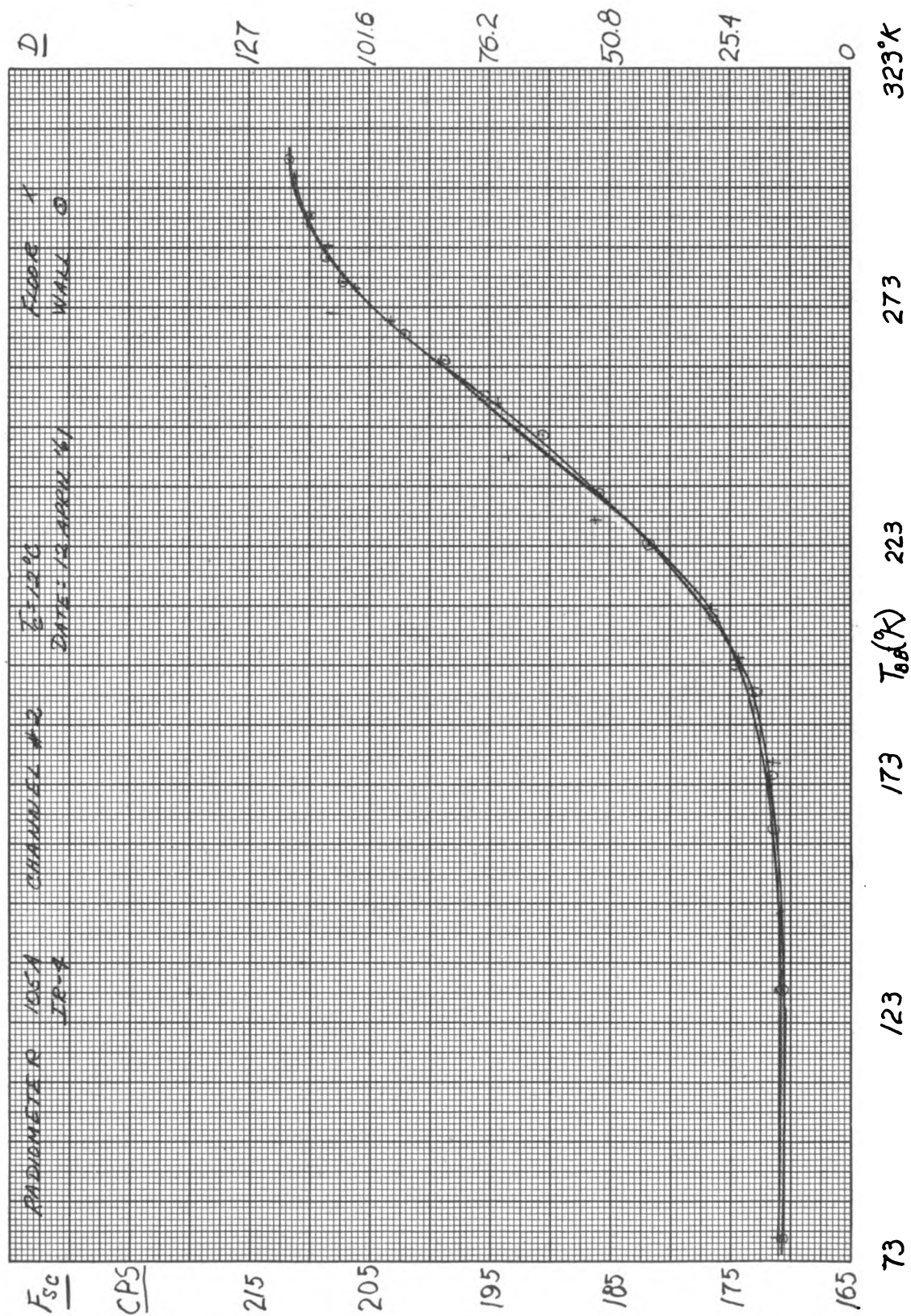


Figure 25—Subcarrier frequency and digital number vs. blackbody temperature for wall and floor sides, Channel 2.
($T_c = 12^{\circ}C$)

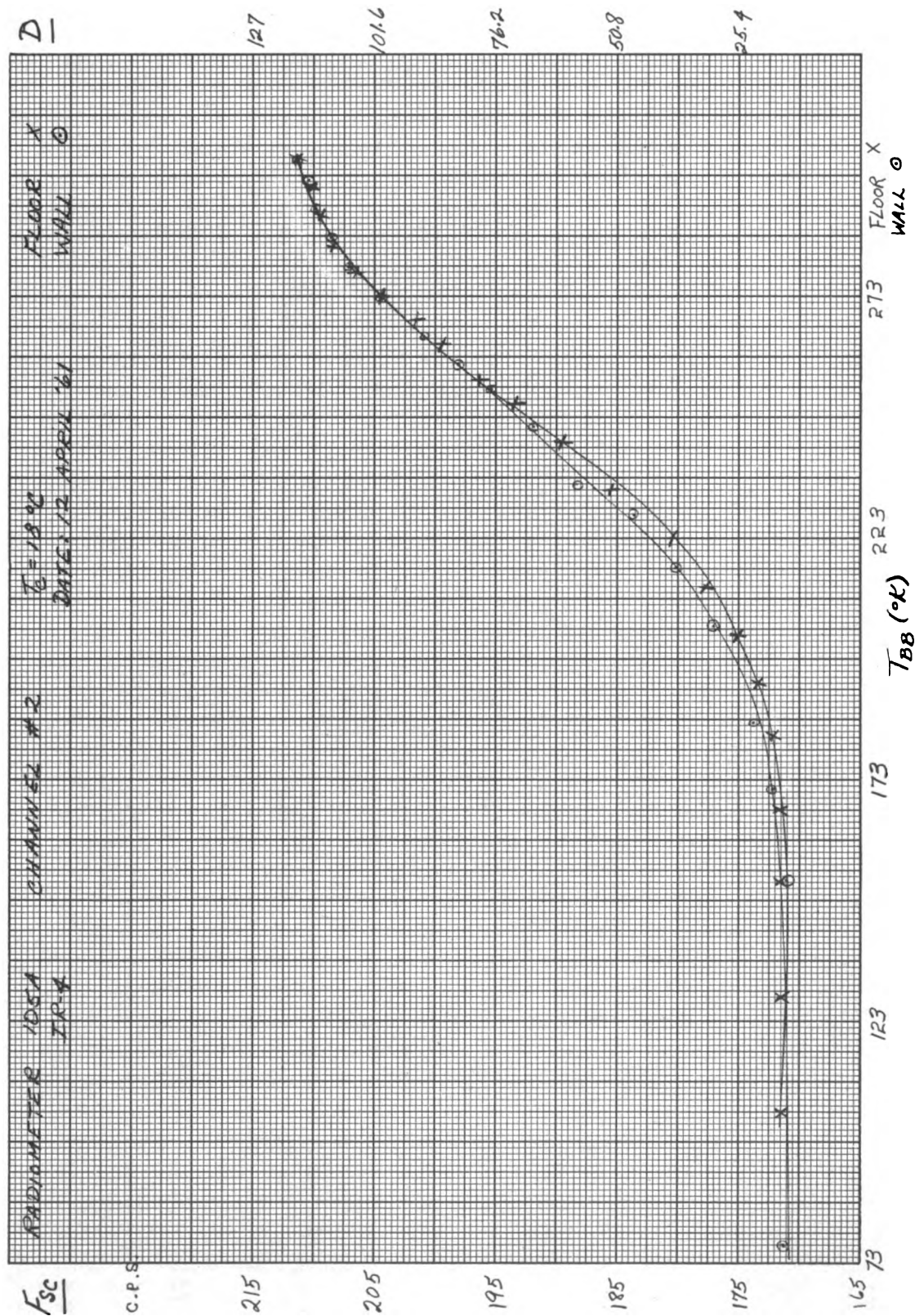


Figure 26—Subcarrier frequency and digital number vs. blackbody temperature for wall and floor sides, Channel 2.
 $(T_c = 18^\circ\text{C})$

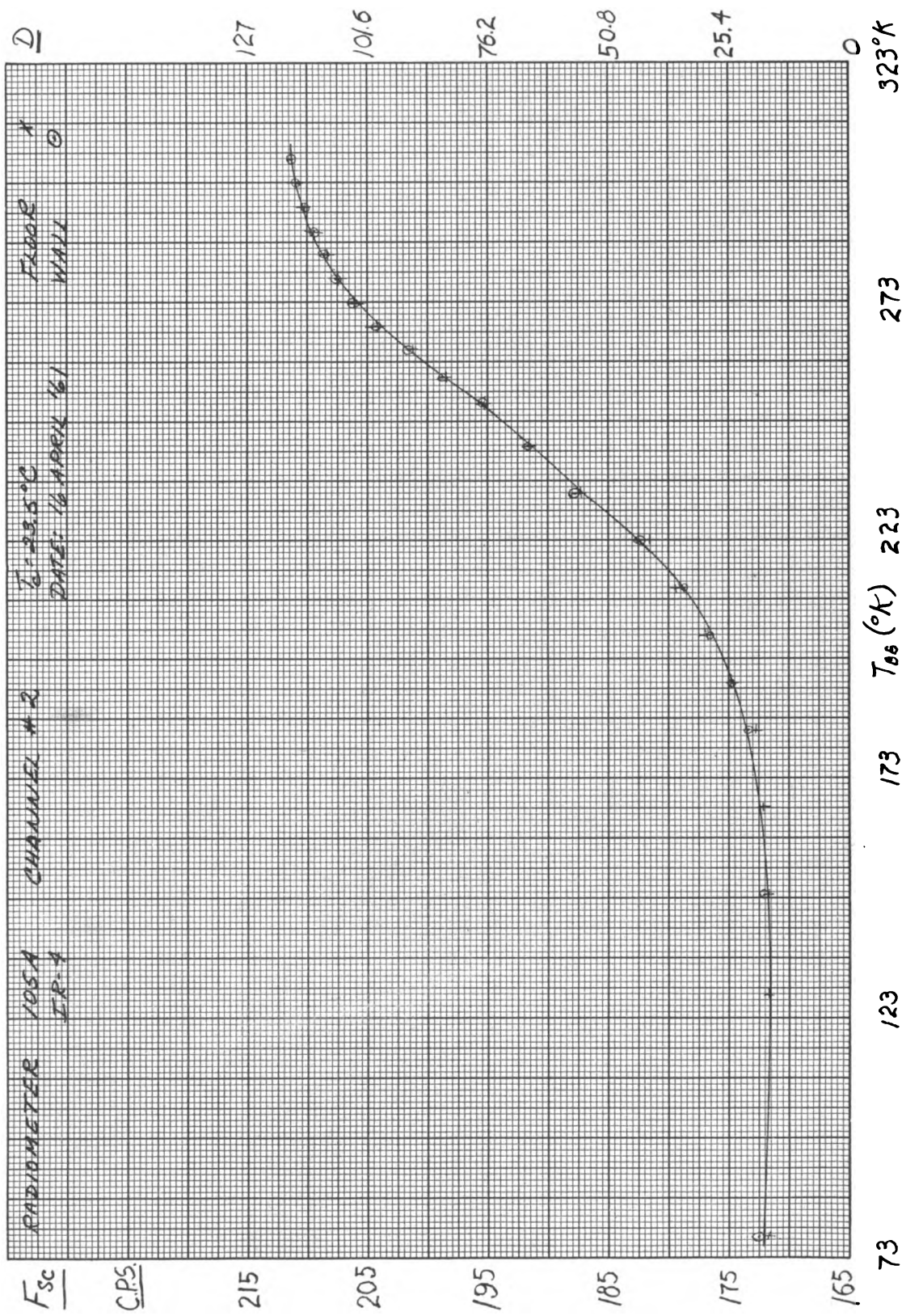


Figure 27—Subcarrier frequency and digital number vs. blackbody temperature for wall and floor sides, Channel 2.
($T_c = 23.5^\circ\text{C}$)

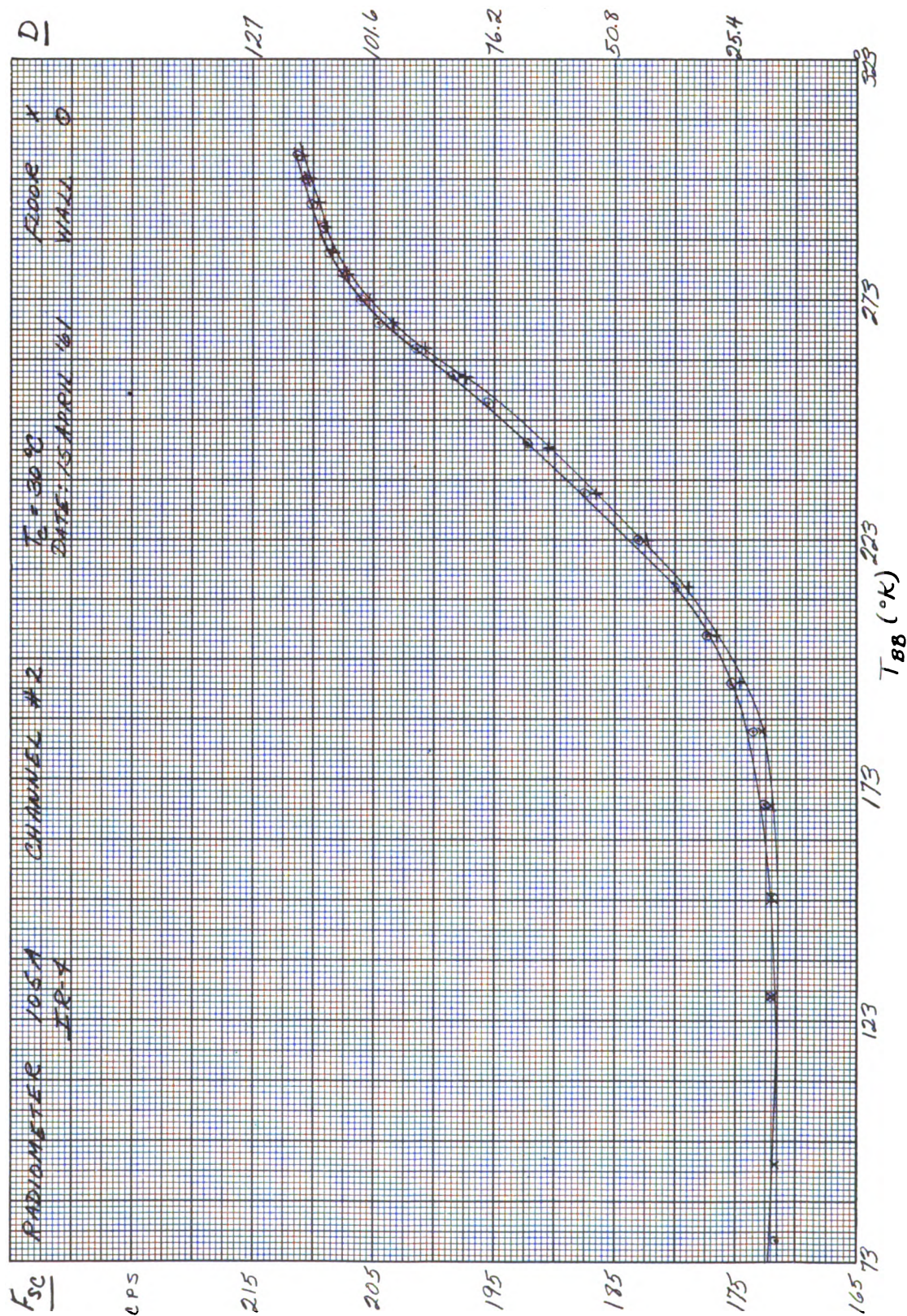


Figure 28—Subcarrier frequency and digital number vs. blackbody temperature for wall and floor sides, Channel 2.
 $(T_c = 30^\circ\text{C})$

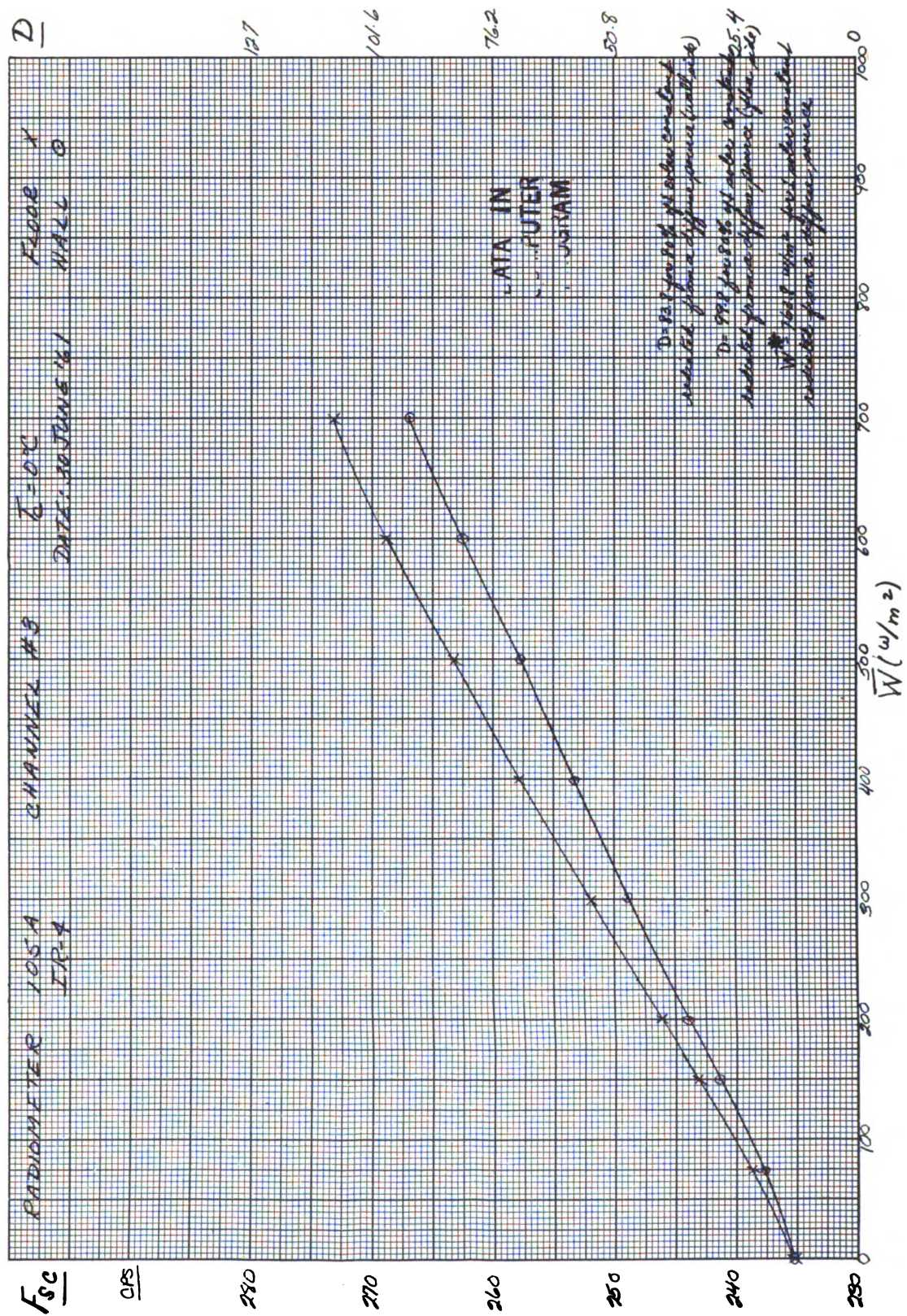


Figure 29—Subcarrier frequency and digital number vs. effective radiant emittance for wall and floor sides, Channel 3.

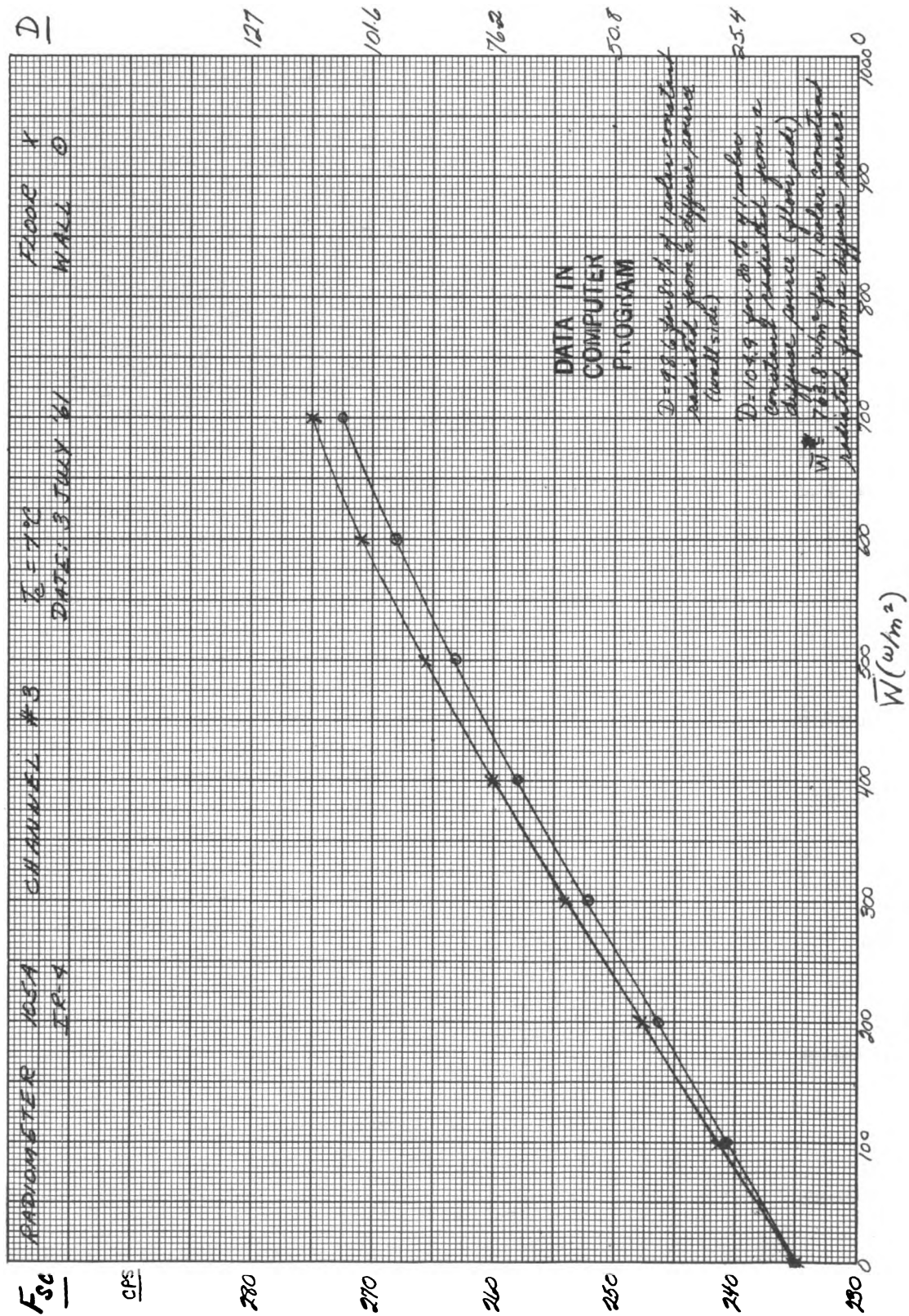


Figure 30—Subcarrier frequency and digital number vs. effective radiant emittance for wall and floor sides, Channel 3.
 $(T_c = 7^\circ\text{C})$

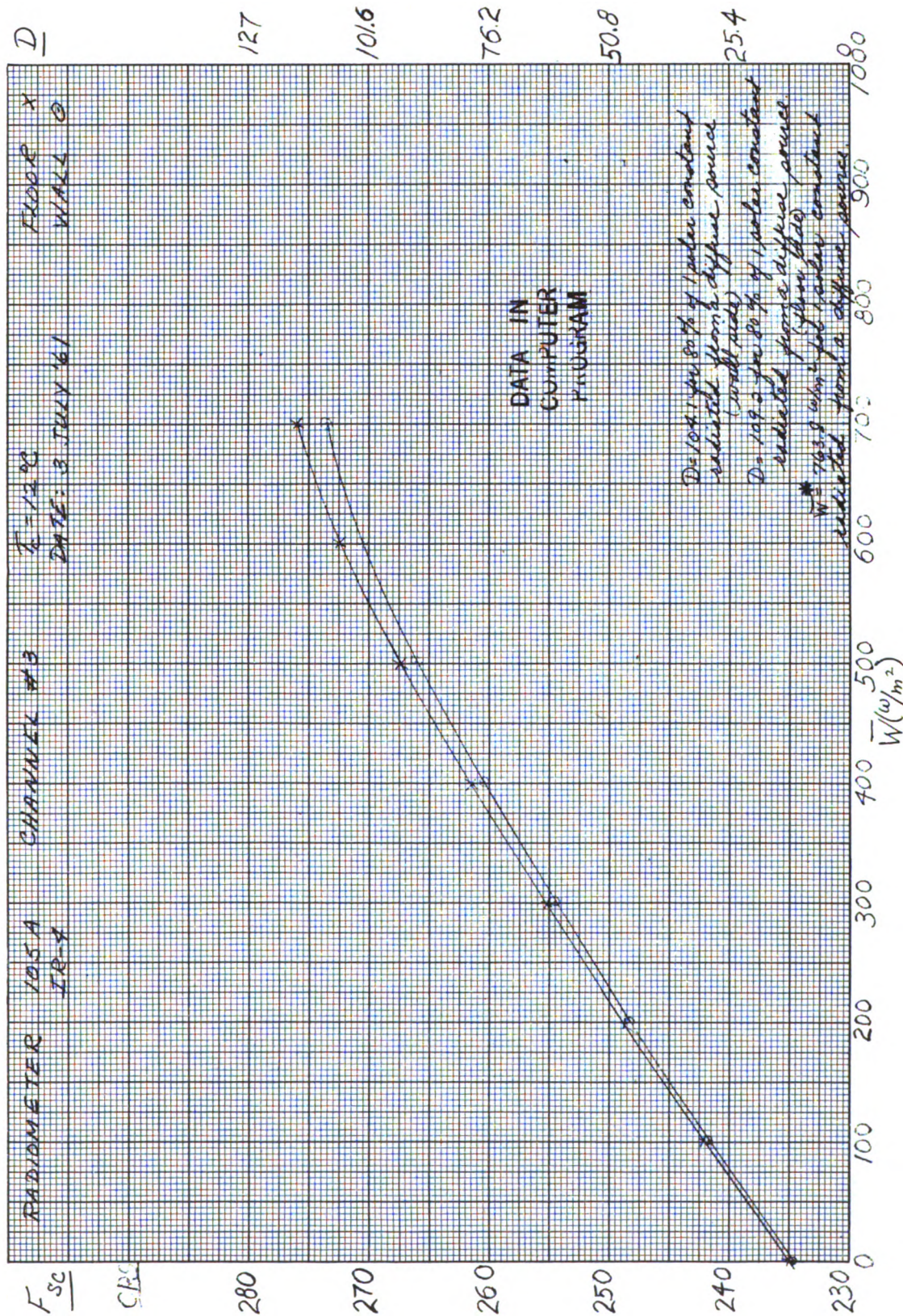


Figure 31—Subcarrier frequency and digital number vs. effective radiant emittance for wall and floor sides, Channel 3.
 $(T_c = 12^\circ\text{C})$

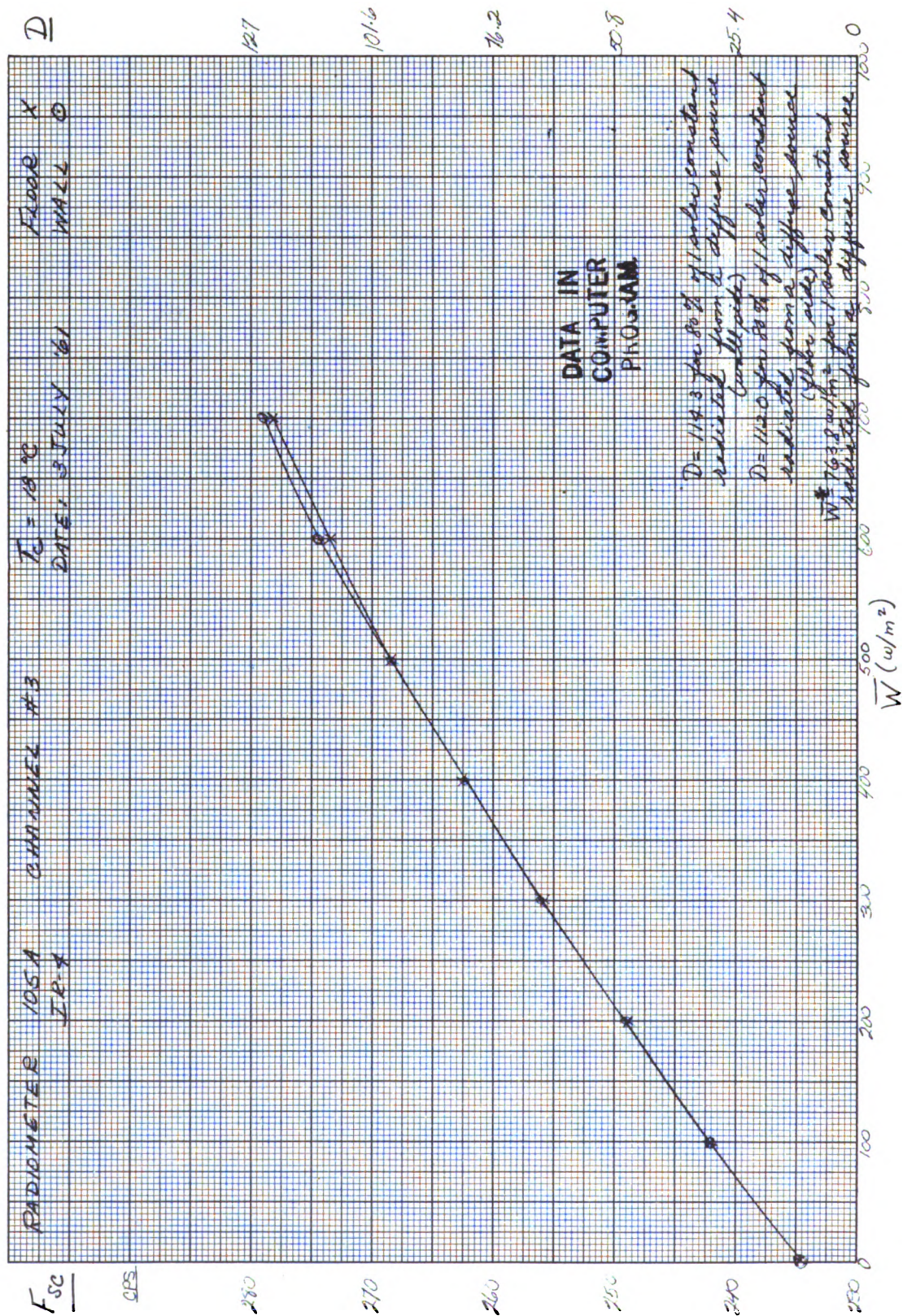


Figure 32—Subcarrier frequency and digital number vs. effective radiant emittance for wall and floor sides, Channel 3.
 ($T_c = 18^\circ\text{C}$)

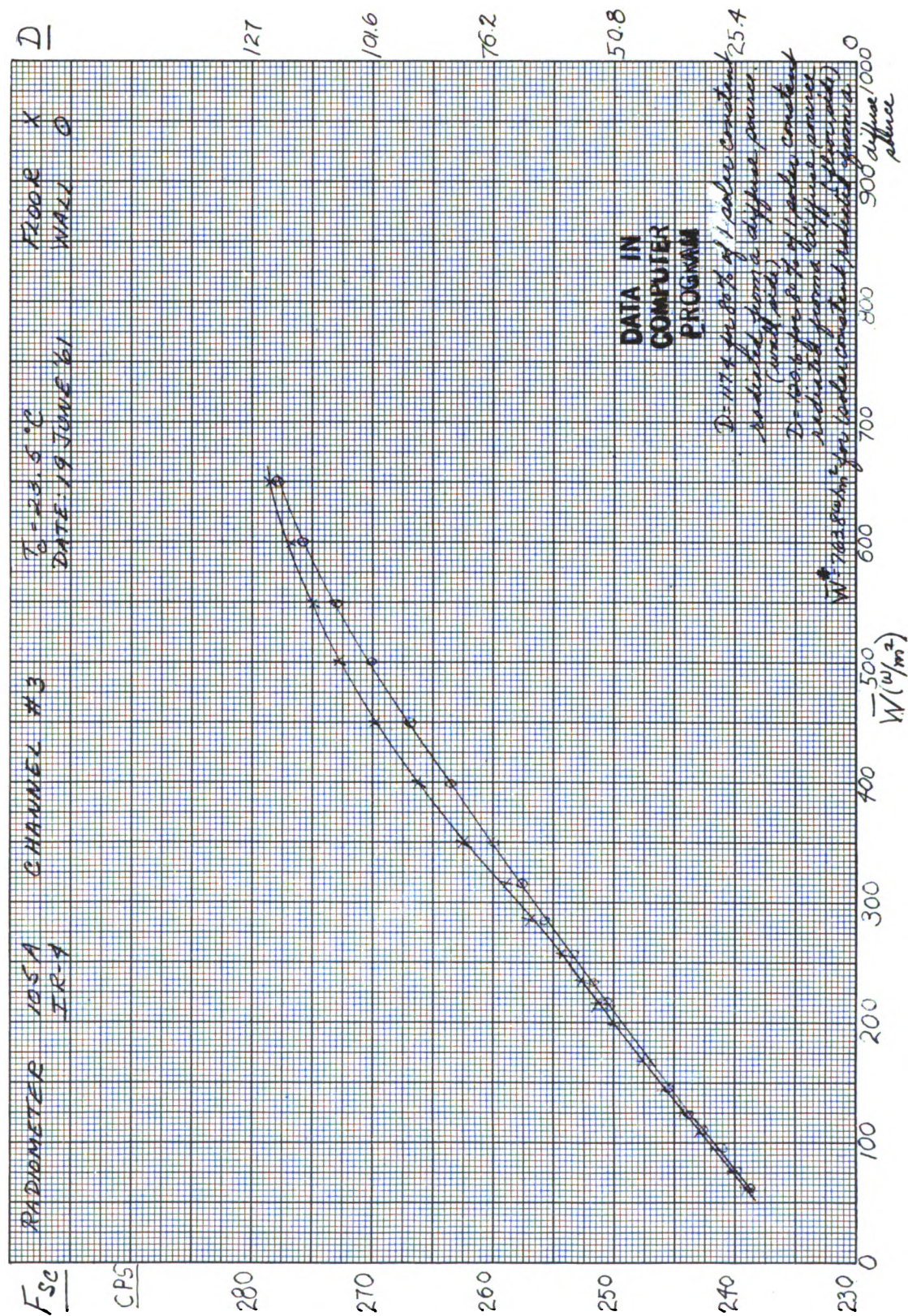


Figure 33—Subcarrier frequency and digital number vs. effective radiant emittance for wall and floor sides, Channel 3.
($T_c = 23.5^\circ\text{C}$)

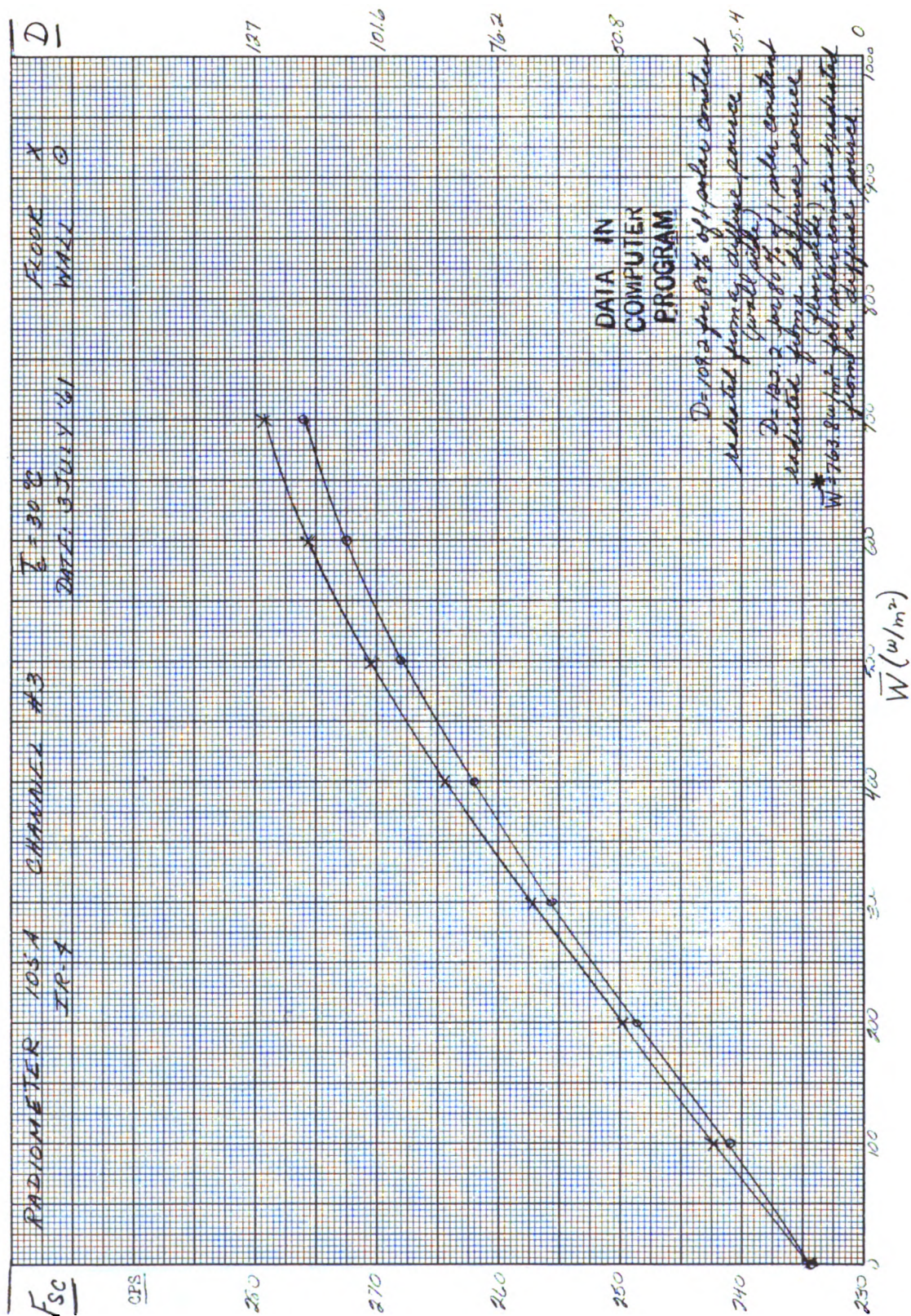


Figure 34—Subcarrier frequency and digital number vs. effective radiant emittance for wall and floor sides, Channel 3.
($T_c = 30^\circ\text{C}$)

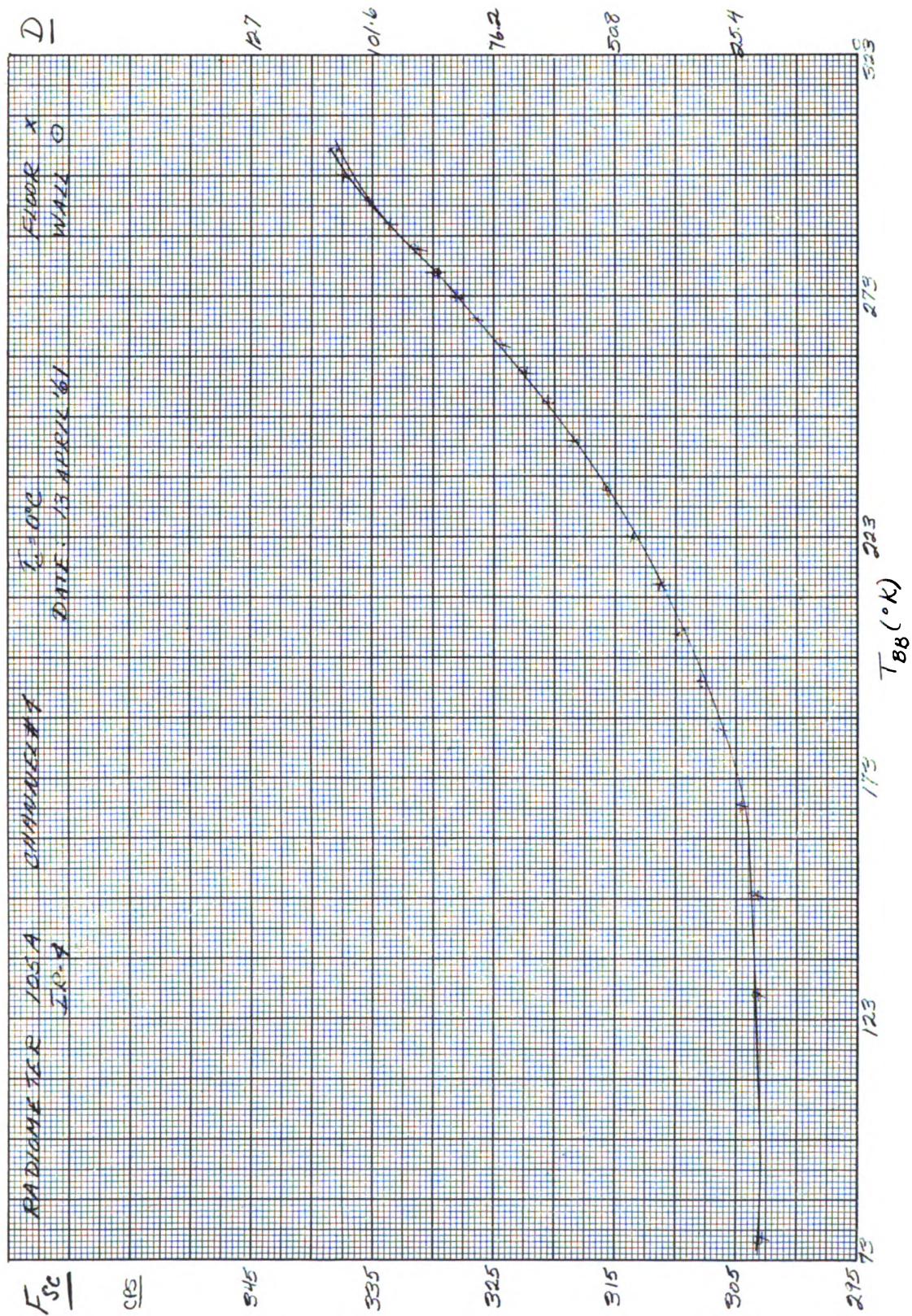


Figure 35—Subcarrier frequency and digital number vs. blackbody temperature for wall and floor sides, Channel 4.

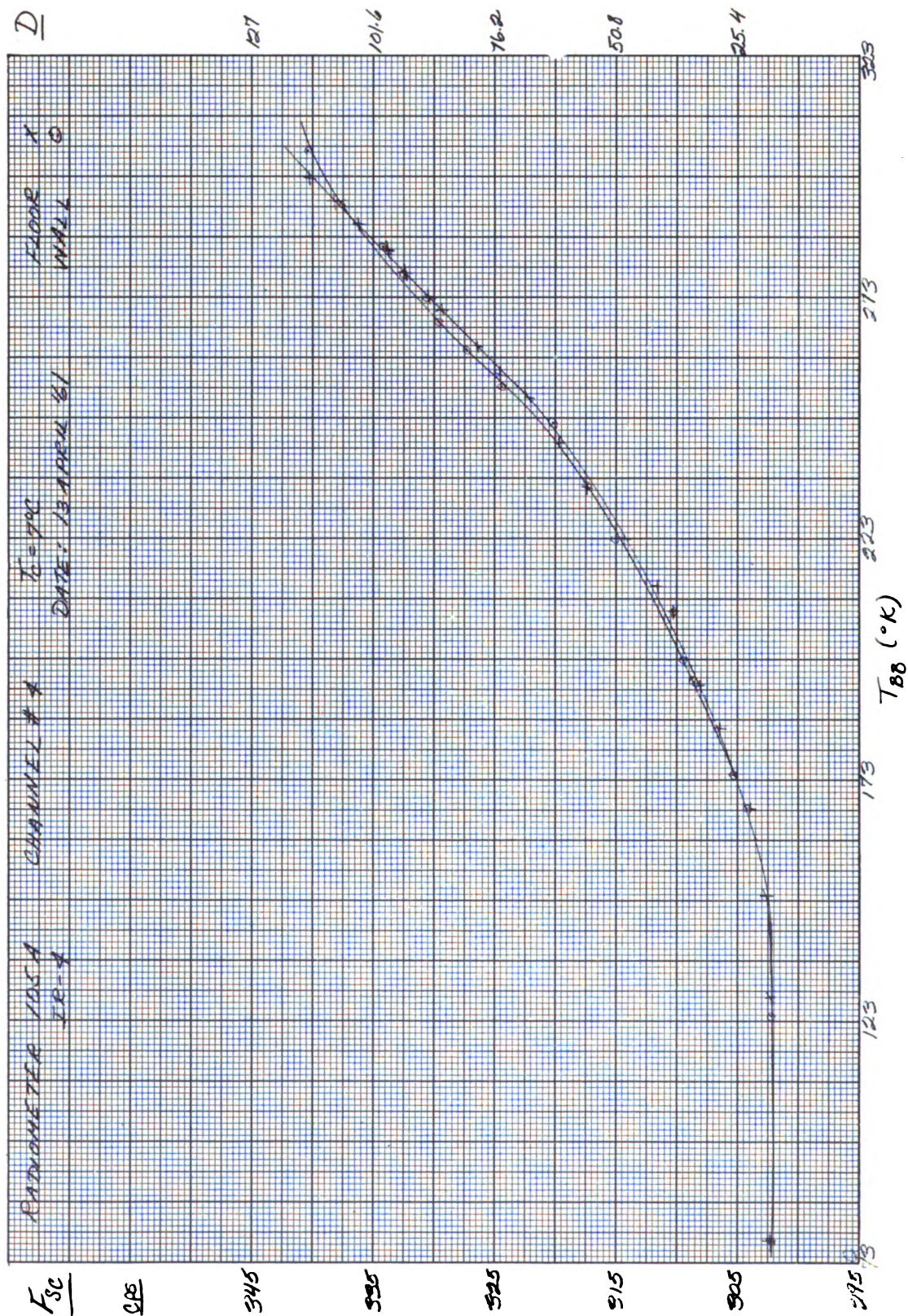


Figure 36—Subcarrier frequency and digital number vs. blackbody temperature for wall and floor sides, Channel 4.
 ($T_c = 7^{\circ}C$)

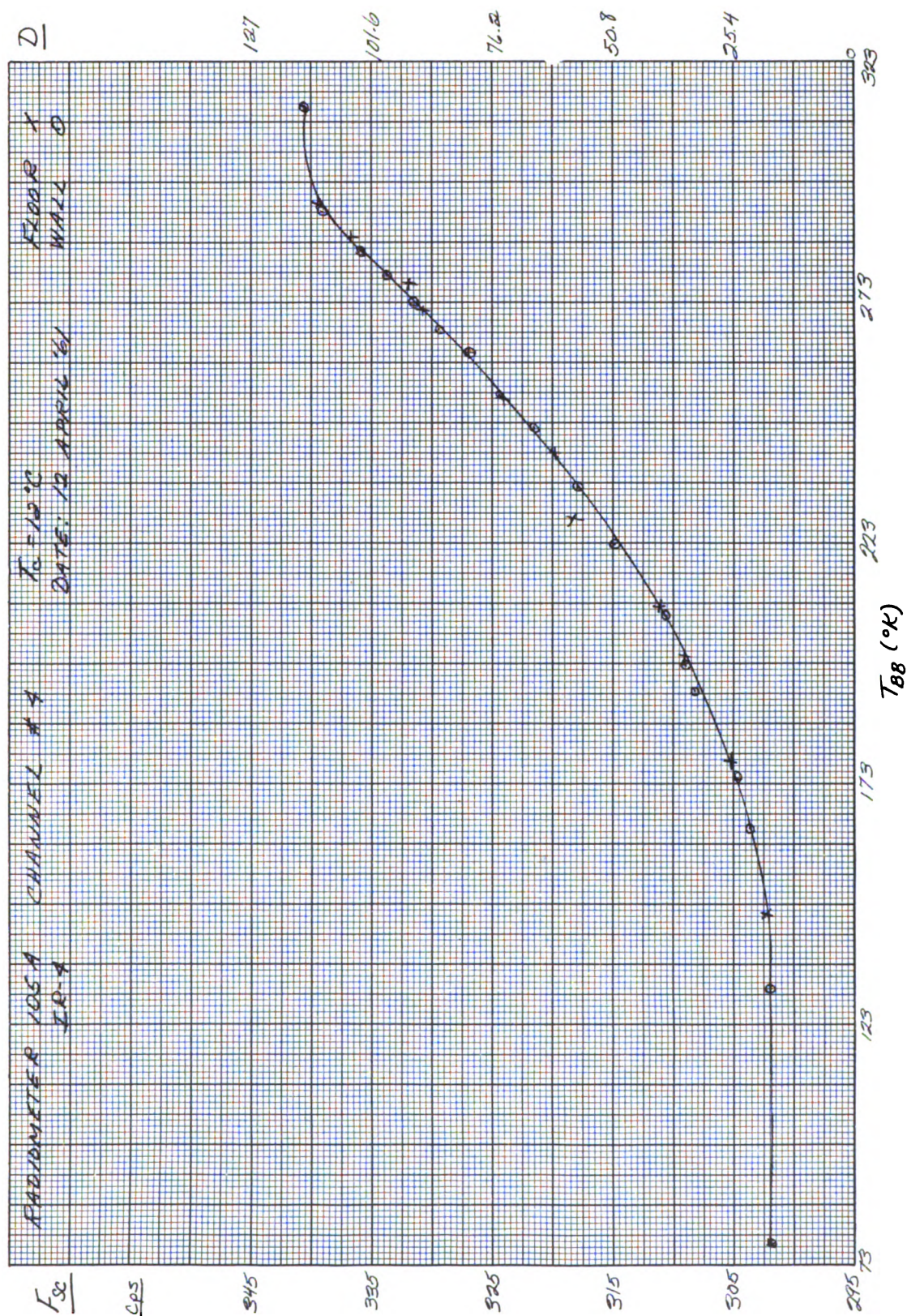


Figure 37—Subcarrier frequency and digital number for wall and floor sides, Channel 4.
 $(T_c = 12^\circ\text{C})$

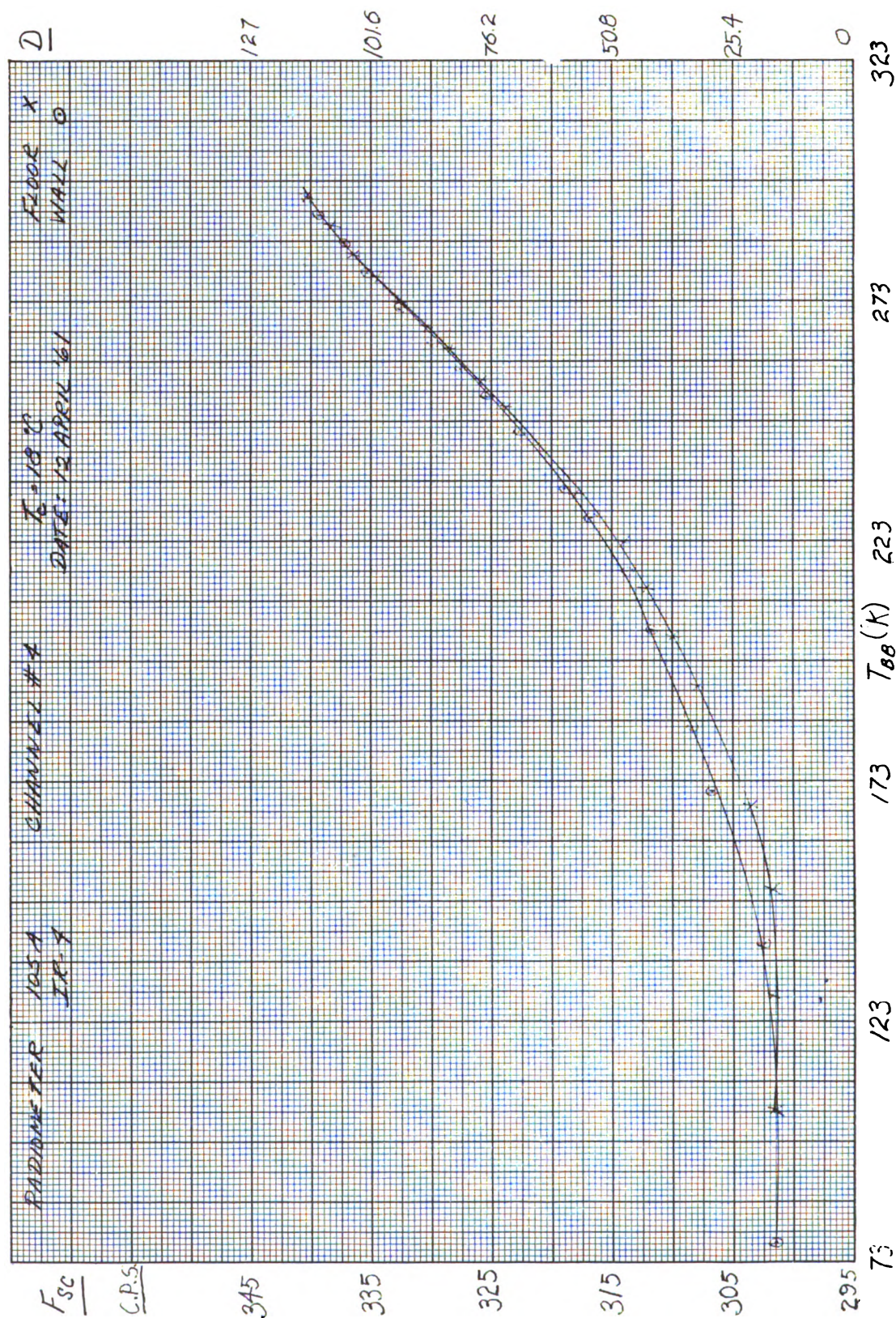


Figure 38—Subcarrier frequency and digital number vs. blackbody temperature for wall and floor sides, Channel 4. ($T_c = 18^\circ\text{C}$)

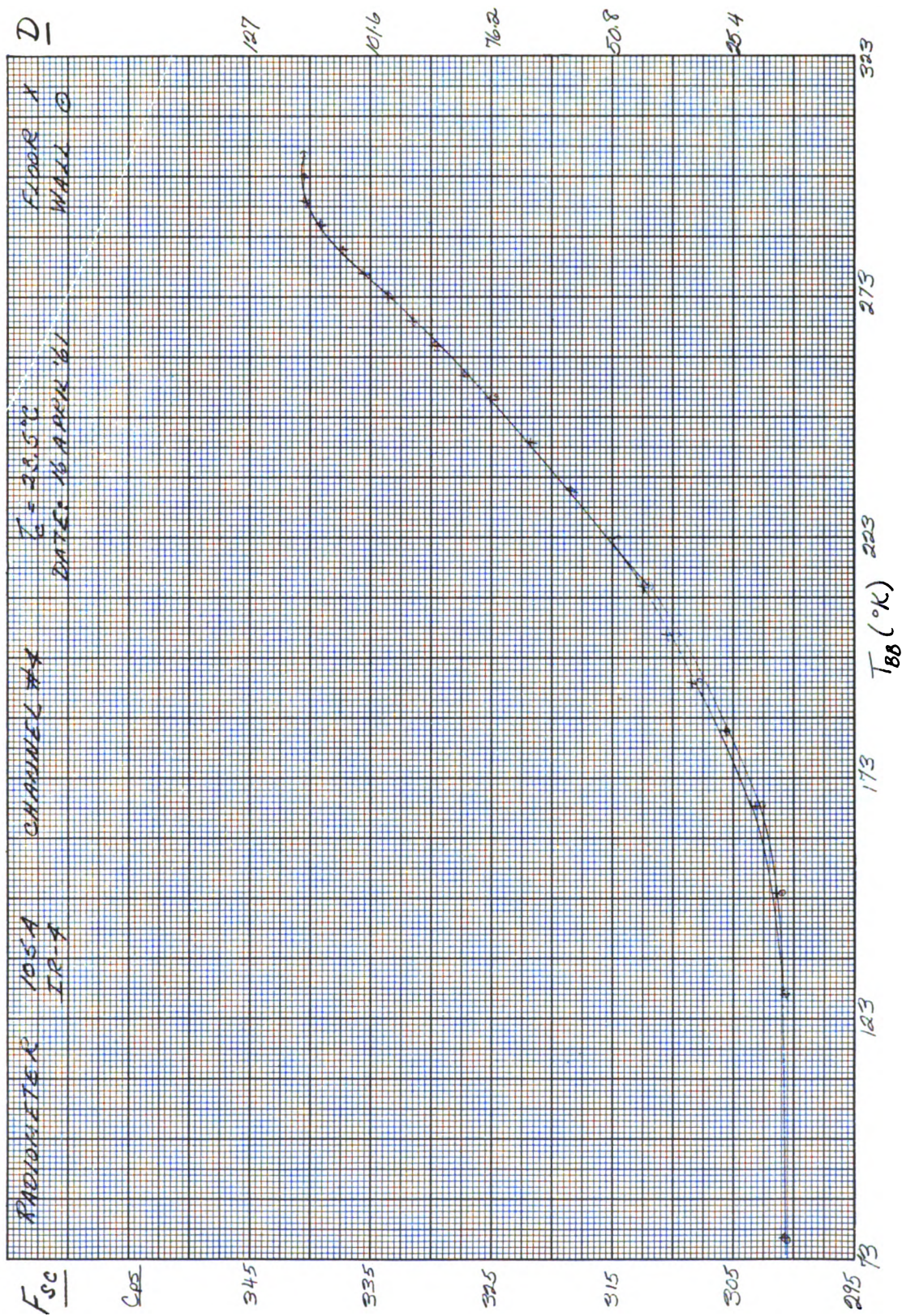


Figure 39—Subcarrier frequency and digital number vs. blackbody temperature for wall and floor sides, Channel 4.
 ($T_c = 23.5^\circ\text{C}$)