



THORN EMI Electron Tubes Limited

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TYPE 9422A

SERIAL NO. 1001

DATE 16-4-87

RADIANT CATHODE SENSITIVITY

λ (nm)	Q.E. %	mA W ⁻¹
121.6	* 11	* 11
140	* 10	* 11
185	* 14	* 21
254	17	35
300	8.5	20.5
350	0.6	1.6
* APPROX. AT CENTRE		

PHOTOMULTIPLIER GAIN AND DARK CURRENT

GAIN	VOLTS	DARK CURRENT
10 ⁵		
10 ⁶	1450V	5 x 10 ⁻¹⁰ A
10 ⁷	1650V	1 x 10 ⁻⁹ A

COUNTING CHARACTERISTICS (where applicable)

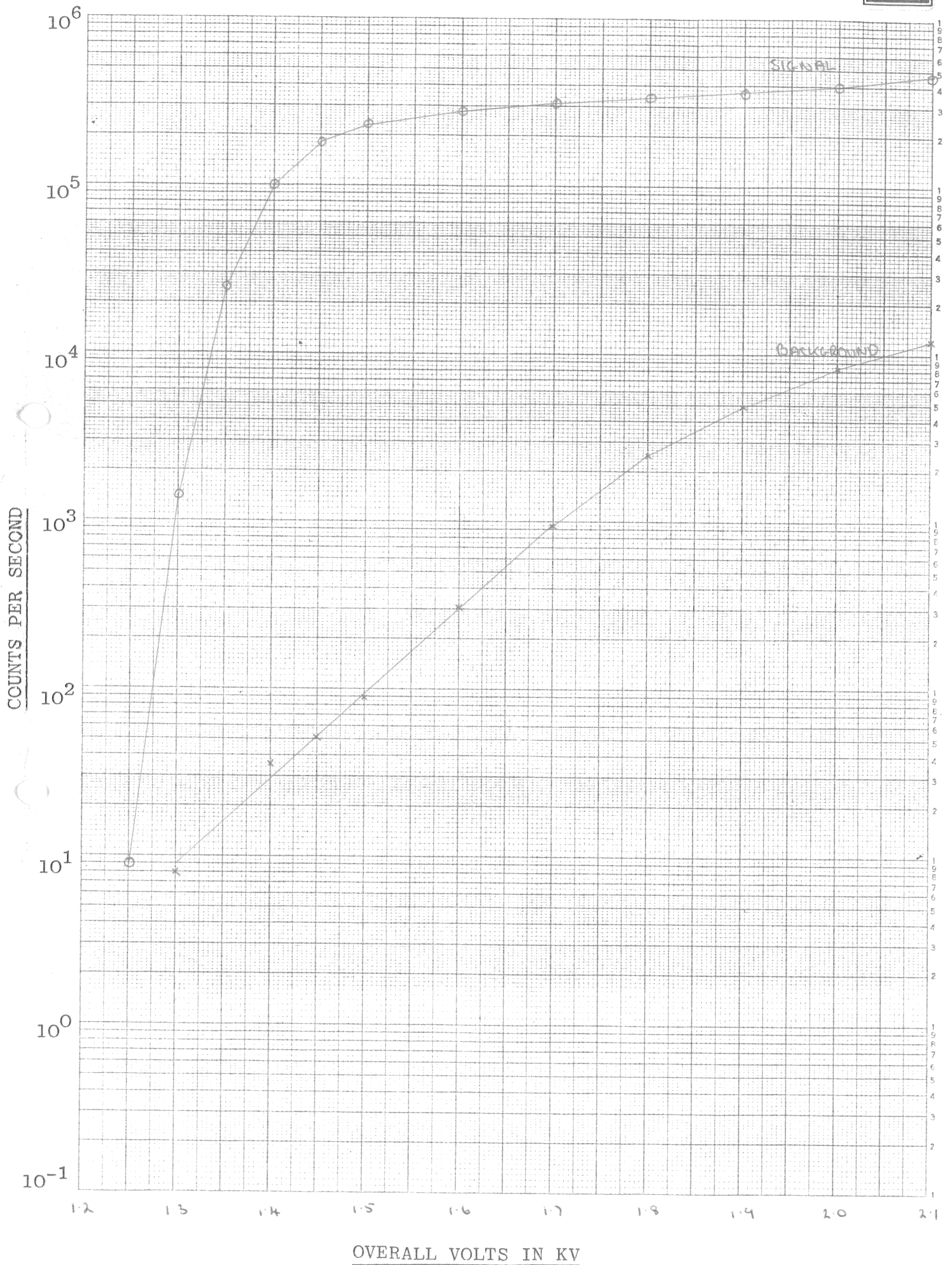
The optimum operating voltage depends on the application, the sensitivity of the measuring electronics and the chosen voltage distribution.

For reference we show the signal and background counting plateaux obtained with the THORN EMI C604 integral amplifier discriminator with a 1mV threshold (50ohms). The photomultiplier is operated with cathode at earth potential in a uniform (R) voltage divider network with $k-d_1 = 2R$. Then the suggested operating voltage is 1700 V and the background is 1000 counts per second.

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Test Date 1-4-87





61B LEADS
SOCKET B19

SERIAL No. 443
CIRCUIT REF.