

THALLIUM.

The thallium vacuum arc spectrum was obtained by putting thallium in iron terminals. The current used was about 6 amperes which gave a continuous and intense arc. There is considerable variation in these results from those of Saunders. This may be due to the fact that Saunders used standard aluminium and zinc lines, while in this work the gas lines measured by Lyman were used as standards.

Int.	λ	$1/\lambda$	λ Saunders	λ E. & V.
4	2394.7	41759		2394.72
4	2379.5	42043	2380.34	2379.68
2	2316.0	43178		2316.14
8	2298.5	43506	2298.05	2298.25
2	2238.0	44683	2238.59	
2	2210.7	45235	2210.46	
2	2168.5	46115		
2	2139.5	46740	2139.98	2139.44
14	1907.8	52416	1908.68	
6	1891.8	52860	1892.72	
2	1827.3	54725	1828.00	
6	1814.2	55121	1814.72	
8	1792.2	55797		
6	1660.0	60241		
6	1653.8	60467		
8	1561.8	64029		
16	1559.0	64144		
5	1538.5	64998		
4	1508.2	66304		
6	1499.8	66676		
2	1491.0	67069		
4	1478.0	67659		