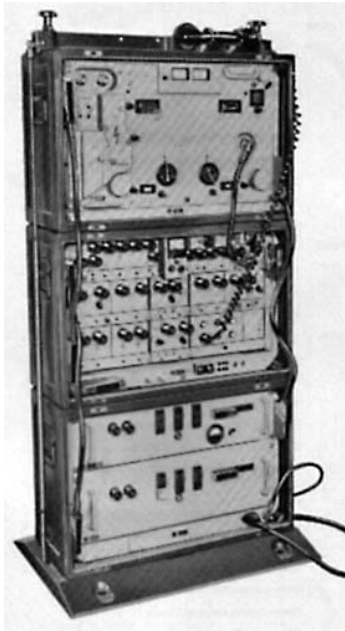




HISTORY OF SIGNALLING IN 100 OBJECTS C50 AND C70 - BRUIN RADIO RELAY



The Siemens SR C70, shown left, worked in the UHF frequency band 610 - 960Mhz band. It was complex, but reliable. The C50/R236 shown above, is being worked on by technicians in a workshop. It was VHF/UHF 225– 400Mhz and had 3 RF outputs at 10W, 50W and 250W. It is shown in a workshop deliberately, as it was not as reliable as the C70, especially if used in the high power mode. The third picture shows both the radio relay equipments being used in their respective box body vehicles. The C70 antenna has the twin helical radiators with reflectors in the middle. The C50 fixed Log periodic antenna is on the extreme right. As the picture shows, the C70 required much more care to site. Ideally it needed path profile analysis of the radio relay “shot” to be reliable. The C50 normally had greater range being in the VHF lower UHF band, so was used by the Divisional Commcens to work to their respective Brigade HQs. The Brigade Signal Sqns had a C50 radio relay detachment mounted in a AFV 439; an example is outside the Royal Signals Museum at Blandford. Both sets were used with BRUIN to deliver secure speech and telegraph using the BID 200 6 channel 6 multiplexer. There was a 20 line automatic exchange at Bde and 40 at Div HQa with 48 and 64 lines for trunk automatic switching at Div and Corps Commcens respectively.

