

X70 SAR SAMPLE MEASUREMENT DETAILS

The mobile phone sample dispatched for SAR assessment to FCC guidelines was identified as follows:

Model: X70
PMCDE Sample No. C25
IMEI No. 004400622870358
FCC ID: NWJ22B001A
SAR Test Laboratory: IMST, Germany

The EIRP of the above X70 SAR sample was measured in an anechoic chamber at Panasonic, Thatcham, U.K. prior to shipment to IMST. The following peak power measurements were made in the PCS 1900 MHz band:

Band	Channel	Peak Power (dBm)
PCS 1900 MHz	512	30.7
	661	31.8
	810	31.4

The above measurements are representative of a correctly calibrated X70

To eliminate the possibility of damage to the sample in transit to IMST and because of the absence of an external antenna connector to allow comparative conducted power measurements to be made, an alternative method had to be devised to allow comparative power measurement to be made. This was achieved by preparing an antenna coupling coil device, which could be used to make power measurements before and after shipment. The following figure shows the device 'attached' to the X70 antenna.

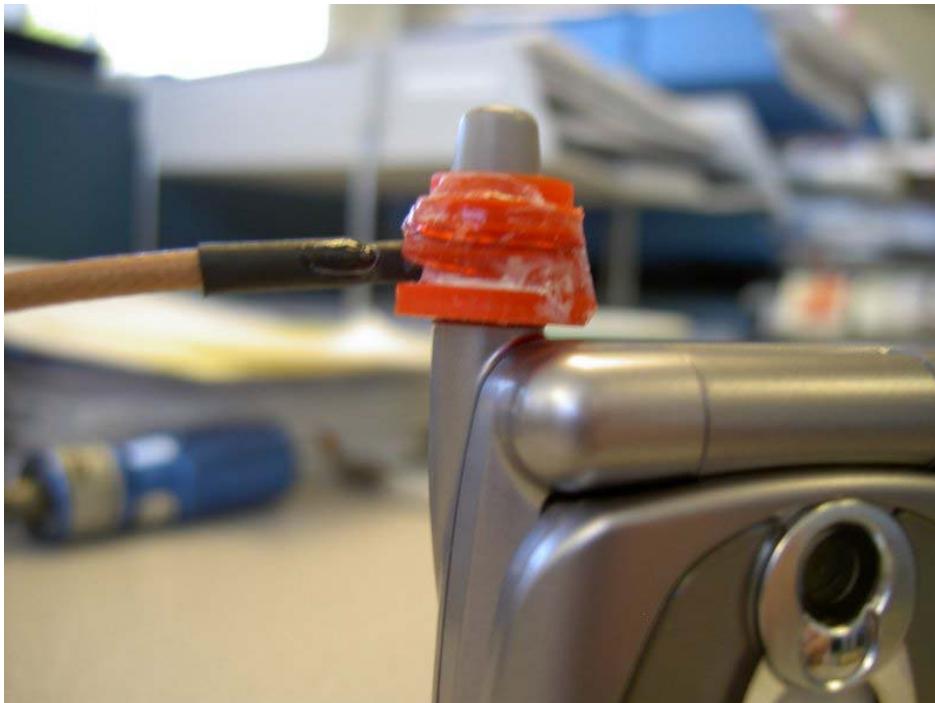


Fig 1.

The output power of the phone was measured using the coupler at Panasonic before despatch to IMST. The results were as follows:

<i>Band</i>	<i>Channel</i>	<i>Measurement (dBm)</i>
PCS1900	512	14.0
	661	15.0
	810	15.0

Notes:

- The above measurements were taken on an HP 8922 test set. The expected input was set such that there was no RF overload error.
- The above measurements have been rounded to the nearest 0.5dBm.

The coupler and above values were sent with the test sample to the testing laboratory, IMST to enable the comparative measurement to be made. IMST measured the power by the same method to confirm that the sample had been received without damage and was working correctly.