

CONDUCTED OUTPUT POWER MEASUREMENT

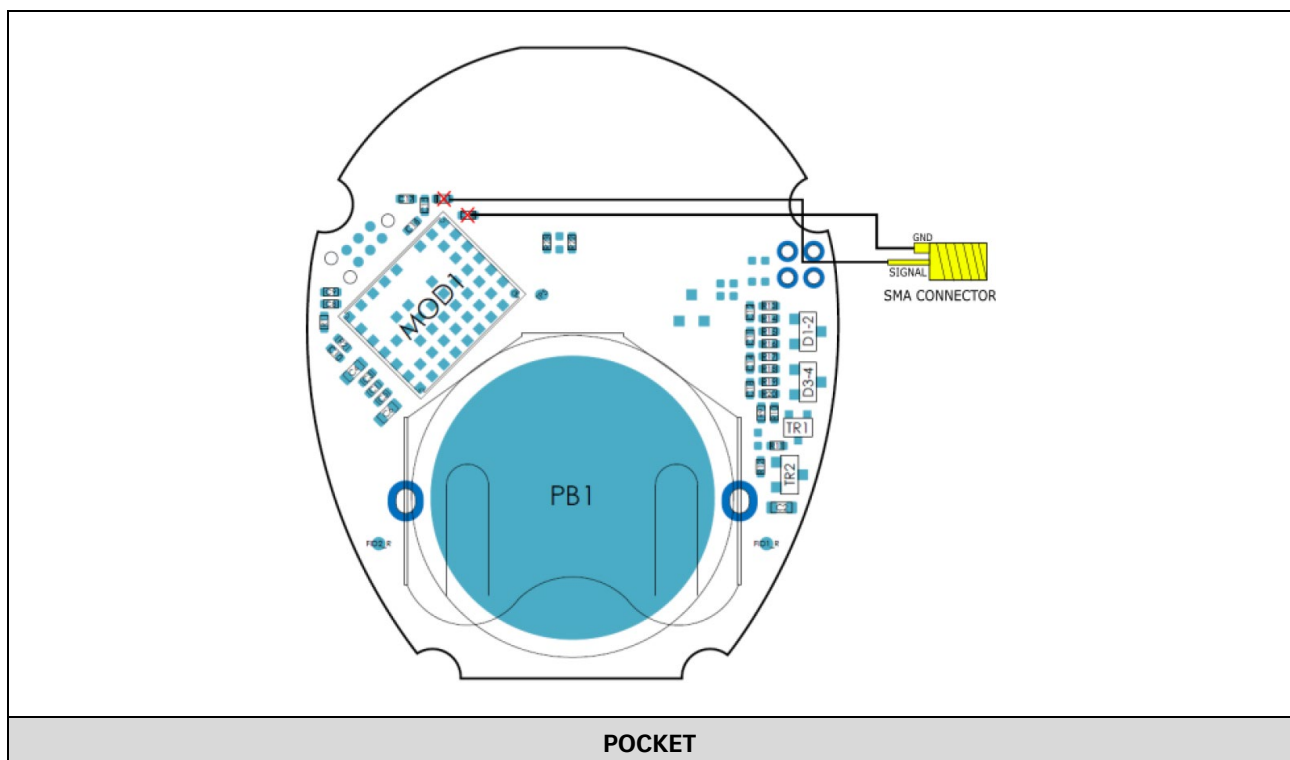
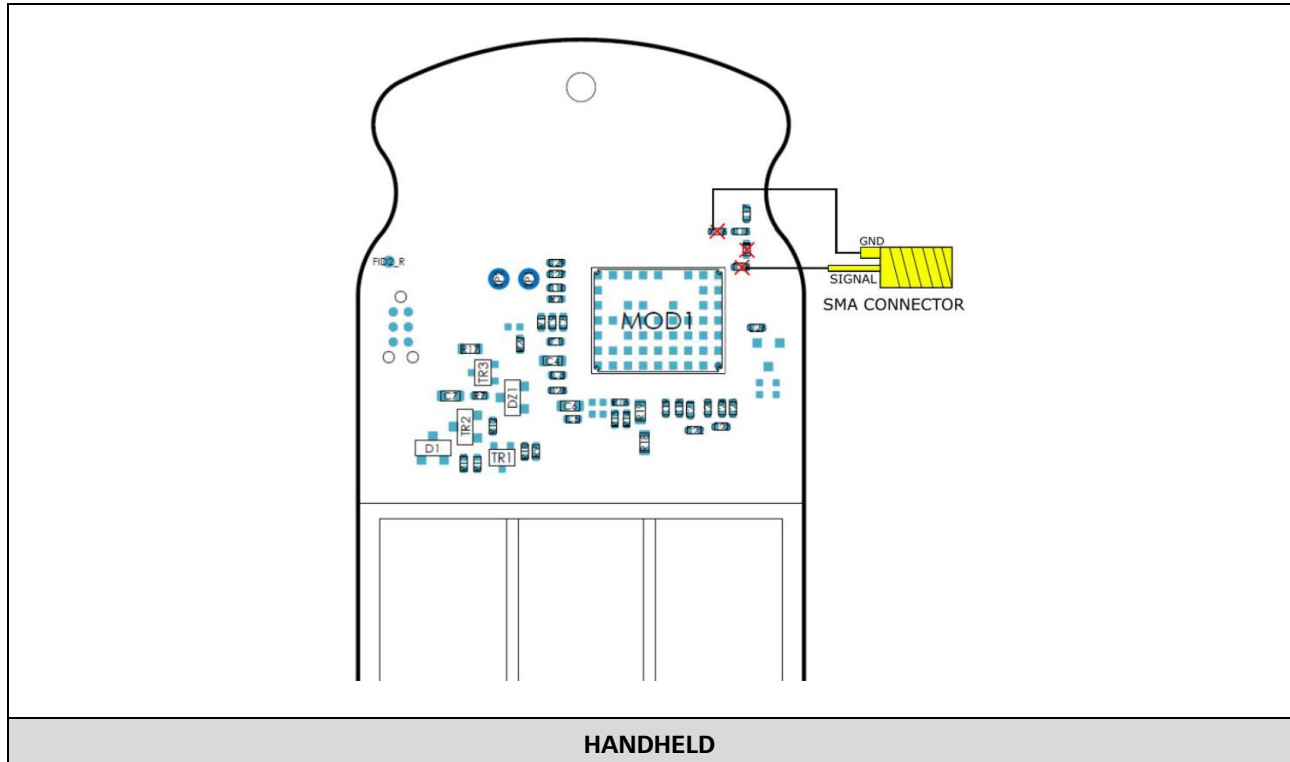
This introduction outlines the procedures followed to measure the conducted power of the remote controls under test (HANDHELD and POCKET transmitters).
It also describes the test setup and the specific configuration of the instrumentation employed.

HANDHELD	POCKET
	
H902+ H904+ H912+ HT94+ HT98+	P902+ P904+ PT94+ PW94+

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1. HARDWARE SETUP



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In both cases, to measure the transmission conducted power, one end of a shielded coaxial cable was soldered to the RF output of the mounted module, while an SMA connector was soldered to the other end.

The core of the coaxial cable was soldered to the RF signal output point of the module, while the braid was soldered to a ground point.

The conducted output power measurement point was taken upstream of the antenna matching network, as the latter is part of the remote control's radiating system and therefore contributes to the antenna gain.

The shortest possible cable was used to find a compromise between achieving a reliable core-to-signal and braid-to-ground connection and minimizing the insertion losses introduced by the cable itself.

An external plastic support was used to press the buttons.

The device was powered according to its rated specifications:

- HANDHELD: 3 x AAA alkaline batteries, 1.5 V each.
- POCKET: 1 x CR2450 3 V battery

2. EQUIPMENT LIST

REF. #	DESCRIPTION	MODEL	MANUFACTURER	SERIAL NUMBER
1	FULL-ANECHOIC CHAMBER	Dimens.7.5 x 5 x 3m. Pyramidal absorbers	SOLIANI EMC SRL	- - -
2	ISOLATING TRANSFORMER	VA4000 ZU4001016.IP55	TRANSFITALIA	LOT.402102
3	WOODEN TRIPOD FOR HL562	HZ-1	BERLEBACH	100473
4	WOODEN TRIPOD FOR BBHA9120E	CAS 6015	SCHAFFNER	- - -
5	TURN TABLE	CT0800	INN-CO	CT0800/033/10781005/L
6	EMI TEST RECEIVER - SPECTRUM ANALYZER	ESPI7	ROHDE&SCHWARZ	1164.6407K07 - 101099
7	50-Ω LOW LOSS CABLE SET	SUCOFLEX 126	HUBER & SUHNER	- - -

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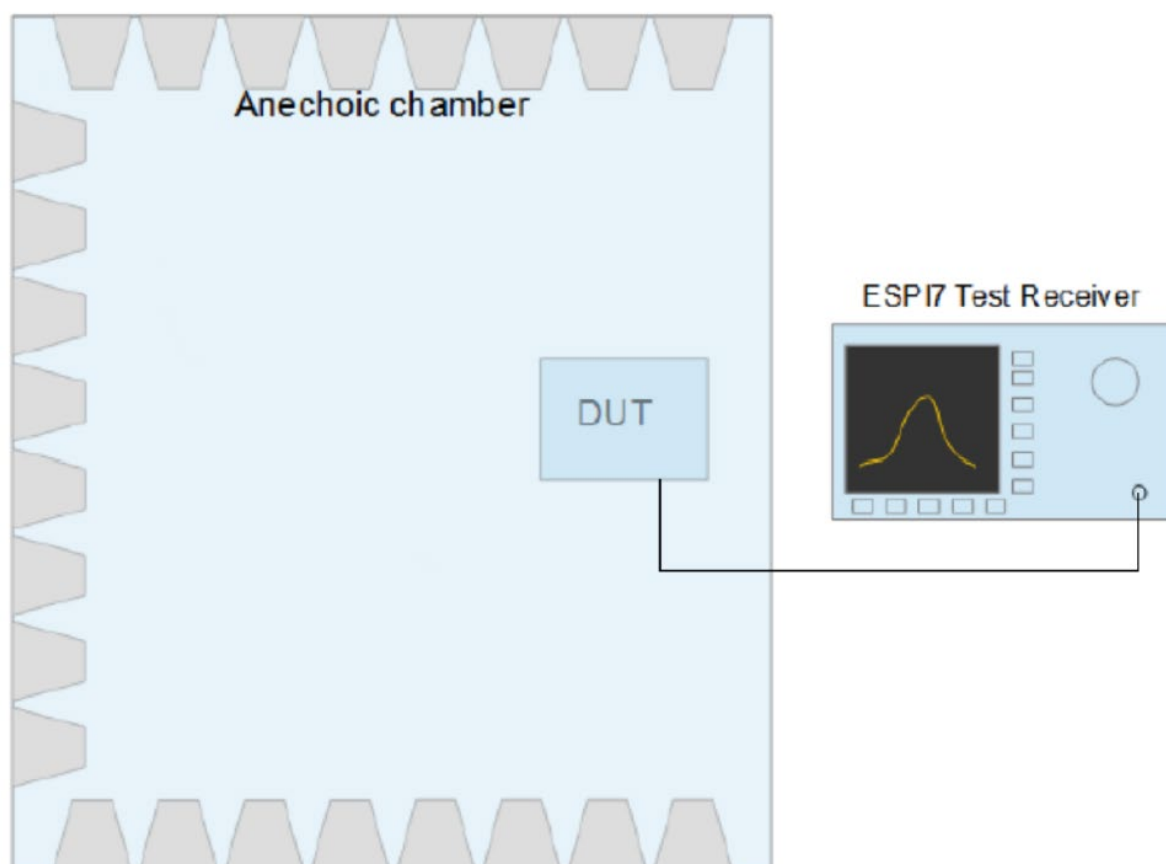
3. INSTRUMENTATION SETUP

The configuration of the R&S ESI7 spectrum analyzer used for the conducted power measurement is reported below.

PARAMETER	VALUE	MEASUREMENT UNIT
Center Frequency	913.7	MHz
Span	1	MHz
Reference Level	20	dBm
Attenuation	30	dB
RBW	100	kHz
VBW	300	kHz
Detector	Peak	
Trace Mode	Max Hold	
Sweep Time	Auto	

* Cable losses were compensated for in the spectrum analyzer settings using an amplitude offset.

4. TEST SETUP



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