

**TESTING ACOUSTICALLY AND INDUCTIVELY  
COUPLED DEVICES USING THE  
F-58654 TEST SET  
TEST PROCEDURE**

**1. GENERAL**

**1.01** This section contains a procedure, for use with the F-58654 test set, to measure the output signal power level of acoustically or inductively coupled customer-provided equipment (CPE). No tests of specified CPE are included in this section.

**1.02** Prior to performing the test procedure given in this section, ensure that the test set is functioning correctly. If necessary, perform the battery check and calibration procedures as given in the section entitled F-58654 Portable Test Set for Acoustic and Inductive Couplers—Description and Operation (107-305-100).

**1.03** The customer or an authorized representative must be present when performing the output signal power level test of the CPE.

**1.04** Test results should be noted on the circuit layout record card (CLRC) to the extent that an acoustically or inductively coupled CPE is involved, and the allowable output level (as measured by the test set) is recorded.

**2. TEST PROCEDURE**

**2.01** This part contains the procedure to be performed in order to determine the output signal power level of CPE.

**2.02 Procedure:**

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<b>STEP</b>	<b>PROCEDURE</b>
1	Position the test set handset in the appropriate chamber of the data coupler.
2	Request the customer to transmit test data corresponding to the highest 3-second average signal level.
3	If the data coupler mode of operation is acoustic coupling to the handset transmitter— Depress the XMTR key on the test set.
4	If a 2125-Hz answer-back tone is required to energize the data coupler— Depress the XMTR and OSC keys simultaneously.
5	If the data coupler mode of operation is either inductive or acoustic coupling to the handset receiver— Depress the RCVR key on the test set.
6	If the meter is driven to full-scale deflection— Depress the ADD 10 dB key and add 10 dB to the meter indication.

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**Requirement:** Maximum permissible meter indication is  $-9$  dBm when averaged over any 3-second interval. An exception may occur where the telephone company (Telco) authorizes

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STEP	PROCEDURE
	a higher input power level to the loop per customer request. If a unique power level has been authorized for a specific loop, it should be noted on the CLRC. The maximum power level arriving at the serving central office is -12 dBm.
7	If the preceding requirement is met— Depress the OFF key on the test set and close the test set cover for protection.
8	If the preceding requirement is <i>not</i> met— The customer must be notified that the CPE is in violation of tariff requirements, and corrective action must be taken.

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**2.03** Auxiliary test equipment used to perform more comprehensive tests which are beyond the scope of this practice may be connected to

the tip and ring (T and R) output jacks. This equipment must have an input impedance of 35 kohms or higher.