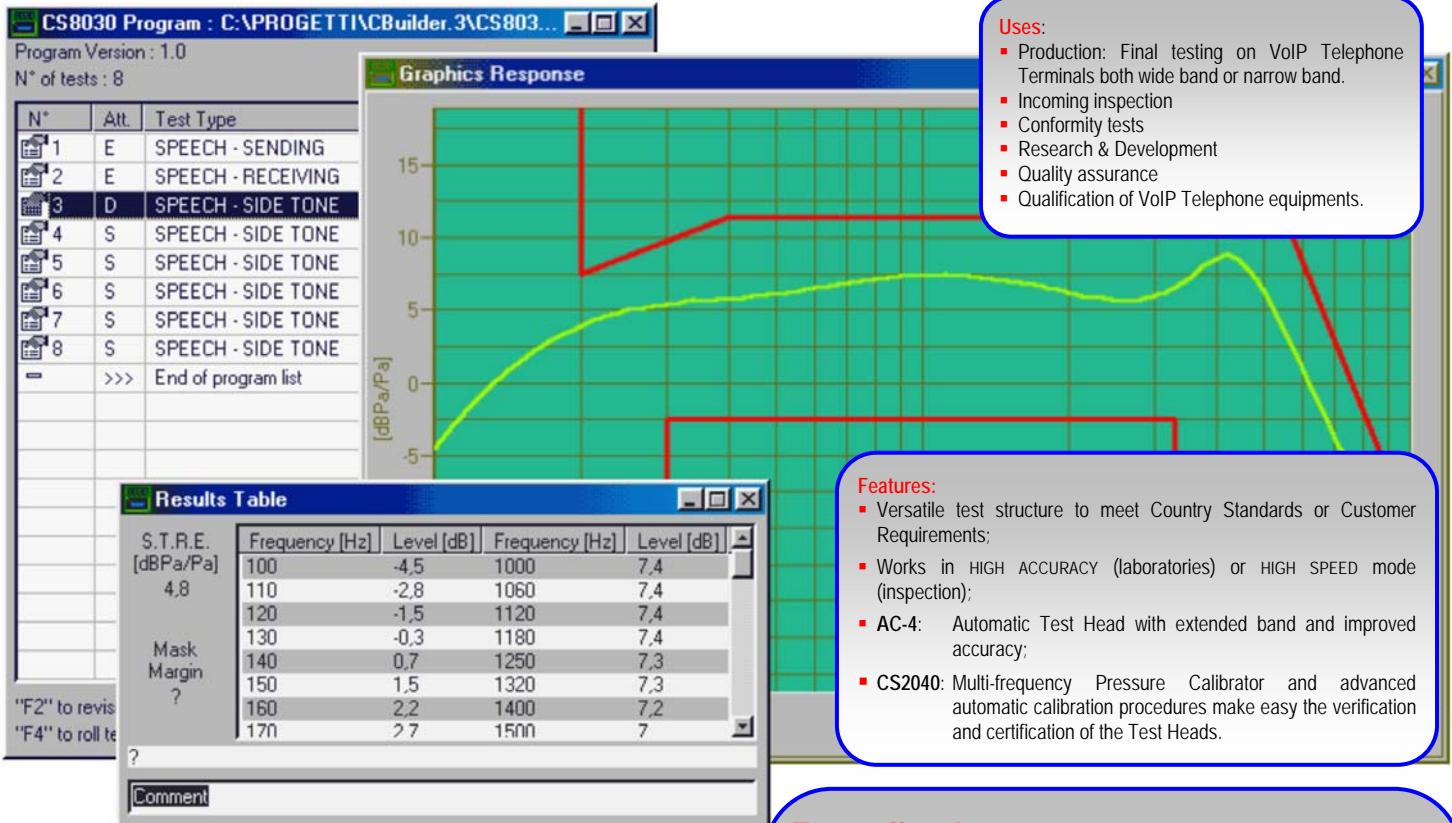


## CS8030 – OPTION for Acoustic Measurements on VoIP Telephone Terminals



CS STRUMENTAZIONE ELETTRONICA S.r.l. has developed a software tool and improved and modified some hardware aspects of Test System CS8030, in order to make possible connection with VoIP telephone terminals and then implement measures of acoustical characteristics.

The CS8030VOIP-WB option allows to test VoIP telephones meeting the requirements of TIA/EIA 810A/B, TIA/EIA 920 Standards and of European Standards, at present in a draft release.

Using CS8030VOIP-WB becomes possible to operate both in narrow-Band (200÷4000Hz) and in wide-Band (100÷8000Hz) mode.

Modern IP telephone sets, more and more, privilege this last characteristic.

### Protocolli:

SIP2 signalisation prot.

- ✓ Internet: IP, TCP, UDP, RTP, RTCP.
- ✓ Speech Coding:
  - G.711 A-law, G.711  $\mu$ -law, Narrow Band
  - G.722 Wide Band
  - L16-256 Wide Band

### Tests offered:

- Calling the subscriber IP number/address.
- Sending and Receiving Sensitivity Frequency Response.
- Sending and Receiving Loudness Rating.
- Variation of Sending & Receiving Gain vs input Level.
- Talker Sidetone (STMR).
- Send and Receive Noise.
- Send and Receive Distortion
- Hands-free Sending and Receiving Frequency Response and Loudness Rating.
- Hands-free Sending and Receiving Noise and Distortion.

At present, the big Telephone Companies are inclined to offer to their Customers only a wide-band VoIP telephones.

CS STRUMENTAZIONE ELETTRONICA S.r.l. in order to reduce the weight of the investments in this field of the electrical communications has taken the necessary steps to revise the model CS8030 for reducing its cost, and to design a new totally manual Wide Band Test Head, the model AC-5, for lowering the costs.