

## AURAL FREQUENCY RESPONSE

The equipment configuration of Figure 1 was used. The visual and aural carriers were energized and the aural carrier was modulated by the HP 339A Distortion Measurement Set. The visual input waveform used was a "0" IRE video input level from the TSG-90. A reference level was set at 100Hz and the audio generator level was adjusted to achieve 25kHz deviation at each modulating frequency using the calibrated audio output (25mV/kHz into 75 ohms) from the MSI 320 TV demodulator. An oscilloscope was used to compare the input voltage with the output demodulated voltage from the MSI 320 TV demodulator to determine the response level. The following table of audio response was obtained by dividing the output audio level by the input level. This table is plotted on the graph shown below. The input termination to the UTX2.5K ULTRA was fixed at 600 ohms.

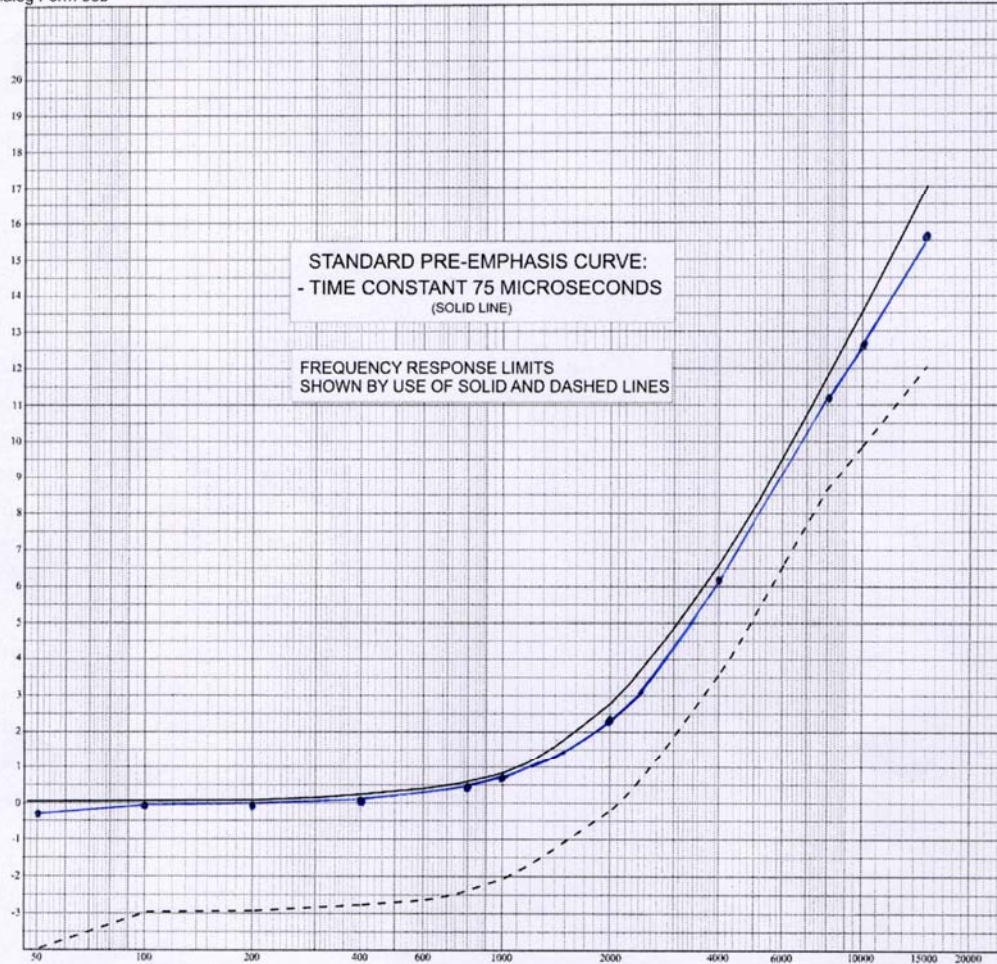
**FREQUENCY RESPONSE DATA TABLE**

Frequency (Hz)	Level (dB)
50	-0.3
100 (Reference)	0.0
200	0.0
400	0.1
800	0.5
1k	0.8
2k	2.4
4k	6.2
8k	11.2
10k	12.6
15k	15.6

Chart 1

# UTX2.5K ULTRA

Analog Form 08b



Tested by: Ed Wood Date:8/24/06