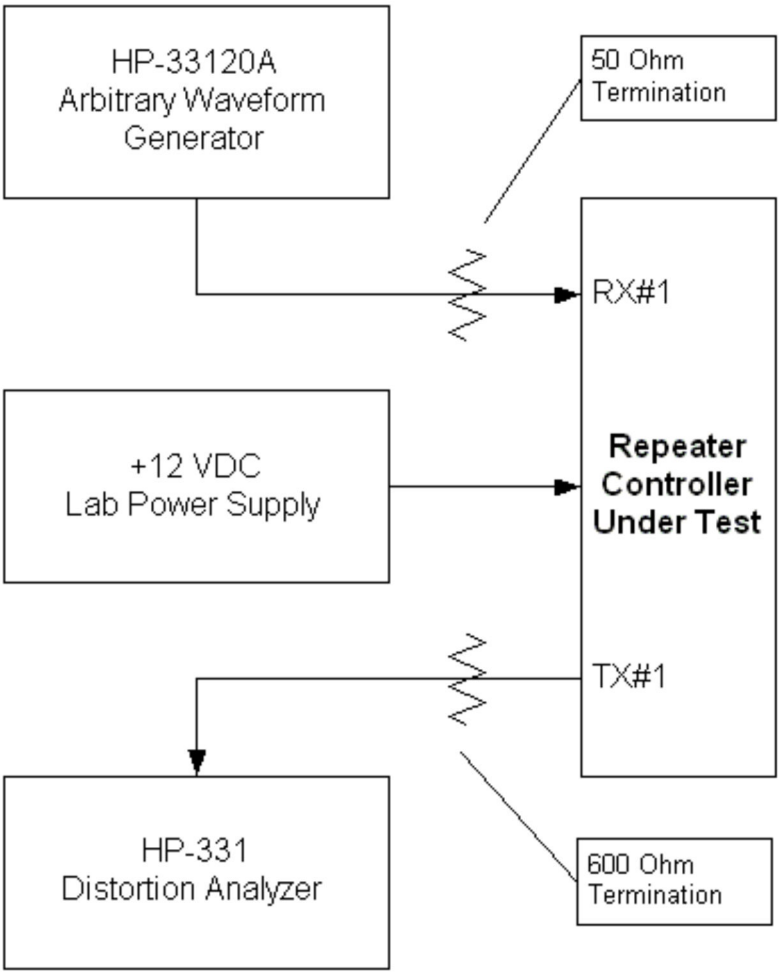
Frequency Response Plots of CAT Controllers

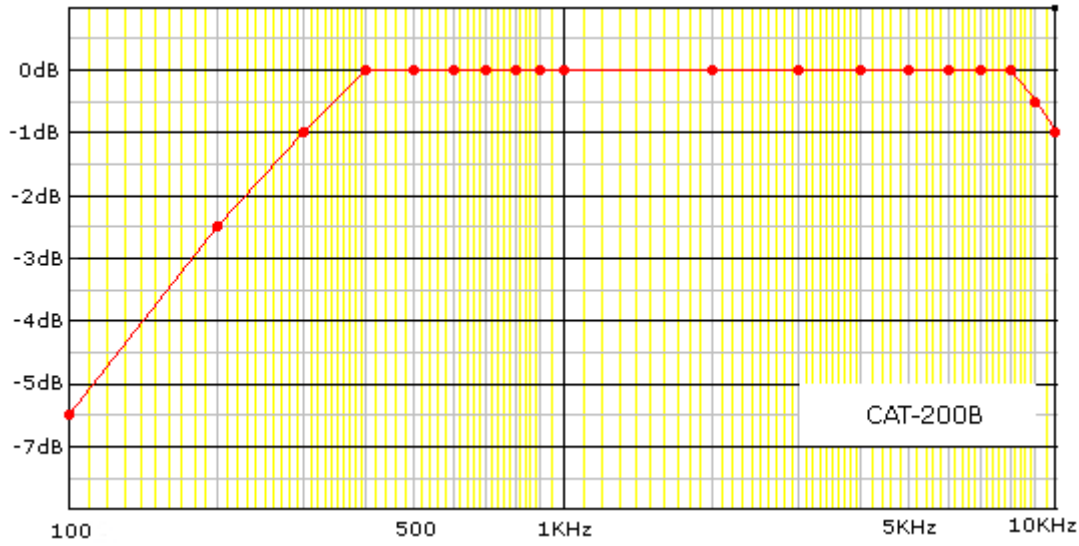
Test Procedure

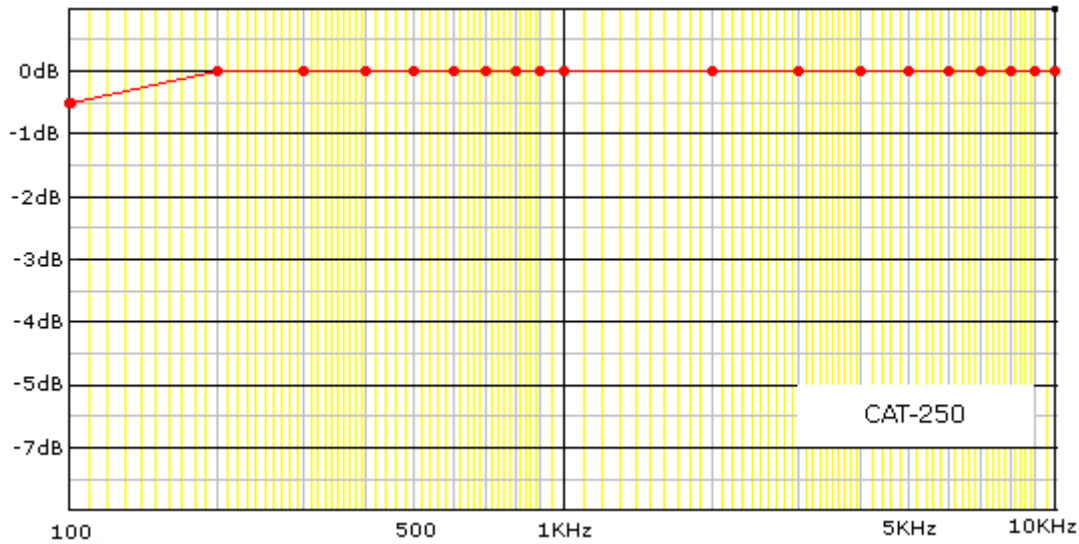
Figure 1 shows the test set-up used. A constant voltage of 200mv RMS was maintained from the waveform generator and applied to the receiver #1 input of each controller across all frequencies. The receiver level was adjusted for a internal audio bus level of 200mv. The output level (TX#1) was adjusted for a 0dB reading at 1000Hz on the distortion analyzer as a reference point. Readings were then plotted between 100Hz and 10KHz (see charts below for each controller) for each controller. Distortion measurements were noted and recorded at 100, 500, 1,000, 5,000, and 10,000 Hertz. Units under test were pulled randomly from finish-goods stock.

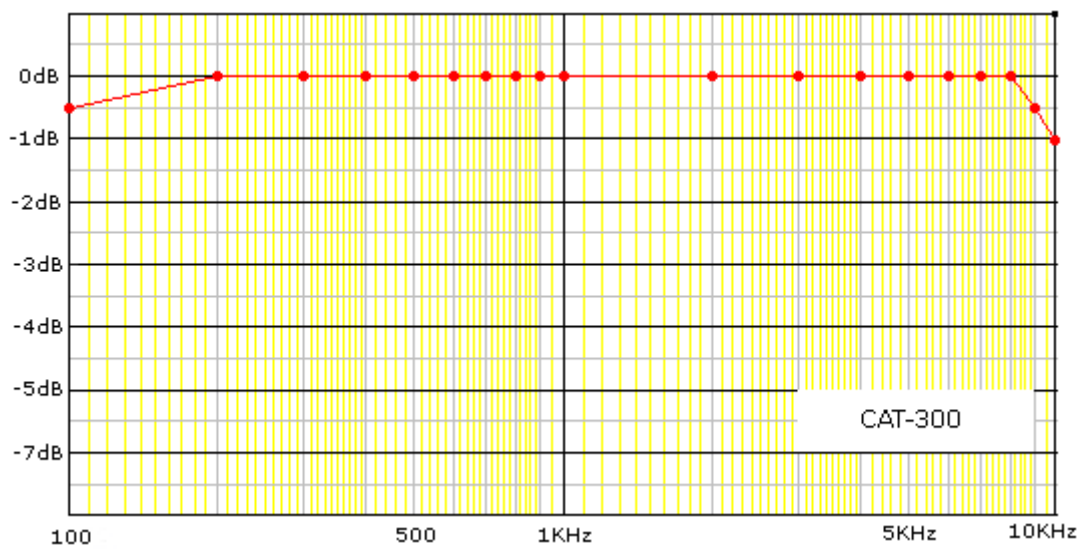


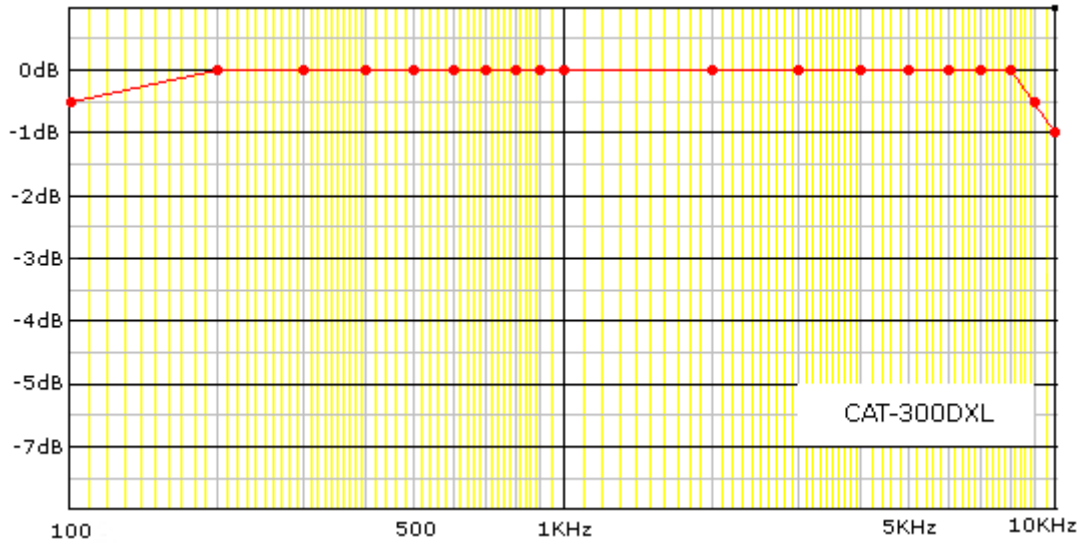
Repeater Controller Audio Distortion

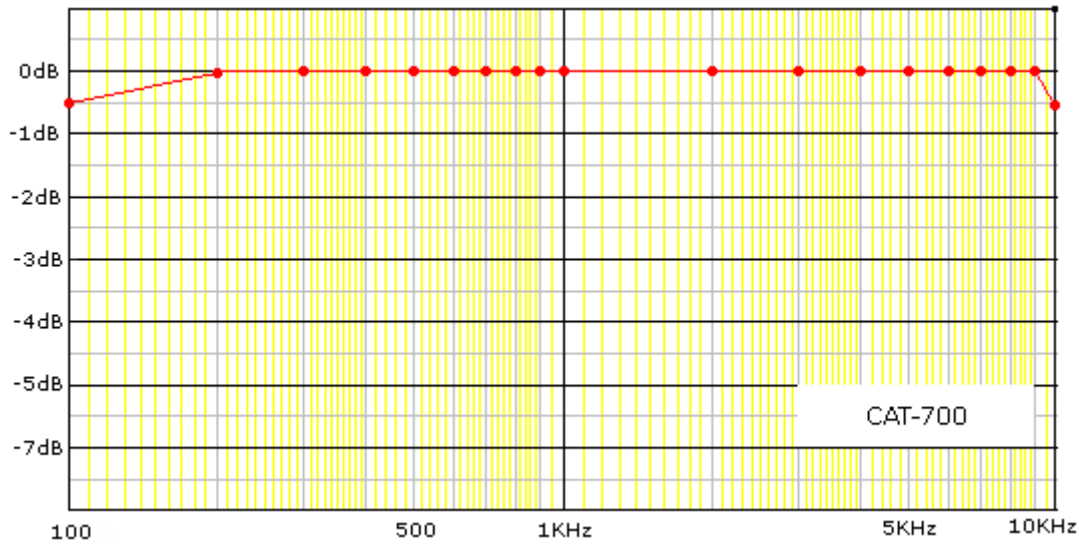
	CAT200	CAT-250	CAT-300	CAT-300DXL	CAT-700	CAT-1000
100 Hz	2.5%	1.5%	< 1%	2.0%	1.75%	< 1%
500 Hz	1.75%	1.2%	< 1%	1.5%	1.5%	< 1%
1,000 Hz	1.5%	1.2%	< 1%	1.5%	1.5%	< 1%
5,000 Hz	1.5%	1.5%	< 1%	1.5%	1.5%	< 1%
10,000 Hz	1.75%	1.5%	< 1%	1.75%	1.75%	1%

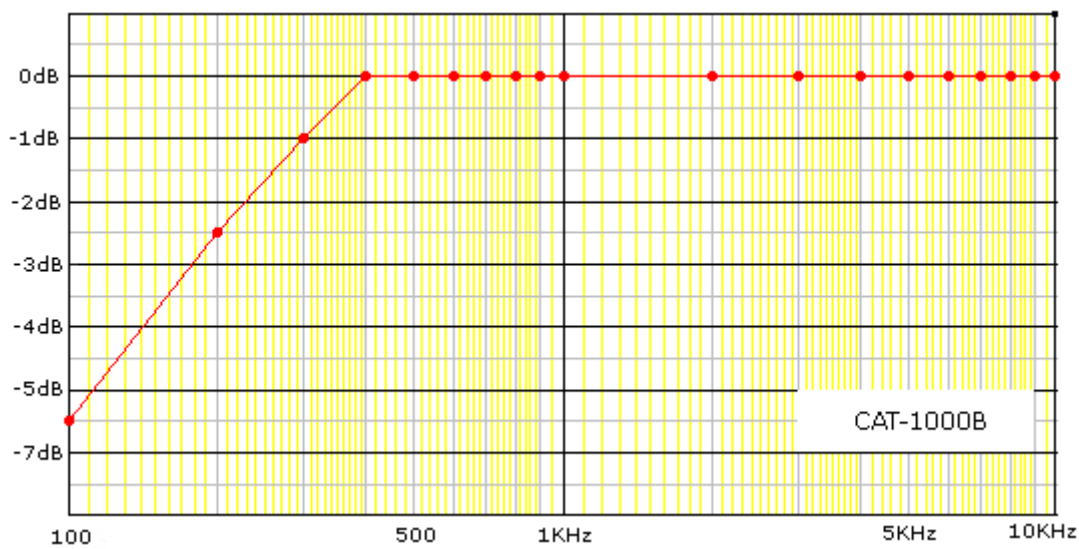

0dB
-1dB
-2dB
-3dB
-4dB
-5dB
-7dB
100
500
1KHz
5KHz
10KHz
CAT-200B


0dB
-1dB
-2dB
-3dB
-4dB
-5dB
-7dB
100
500
1KHz
5KHz
10KHz
CAT-250


0dB
-1dB
-2dB
-3dB
-4dB
-5dB
-7dB
100
500
1KHz
5KHz
10KHz
CAT-300


0dB
-1dB
-2dB
-3dB
-4dB
-5dB
-7dB
CAT-300DXL
100
500
1KHz
5KHz
10KHz


0dB
-1dB
-2dB
-3dB
-4dB
-5dB
-7dB
CAT-700
100
500
1KHz
5KHz
10KHz


0dB
-1dB
-2dB
-3dB
-4dB
-5dB
-7dB
CAT-1000B
100
500
1KHz
5KHz
10KHz