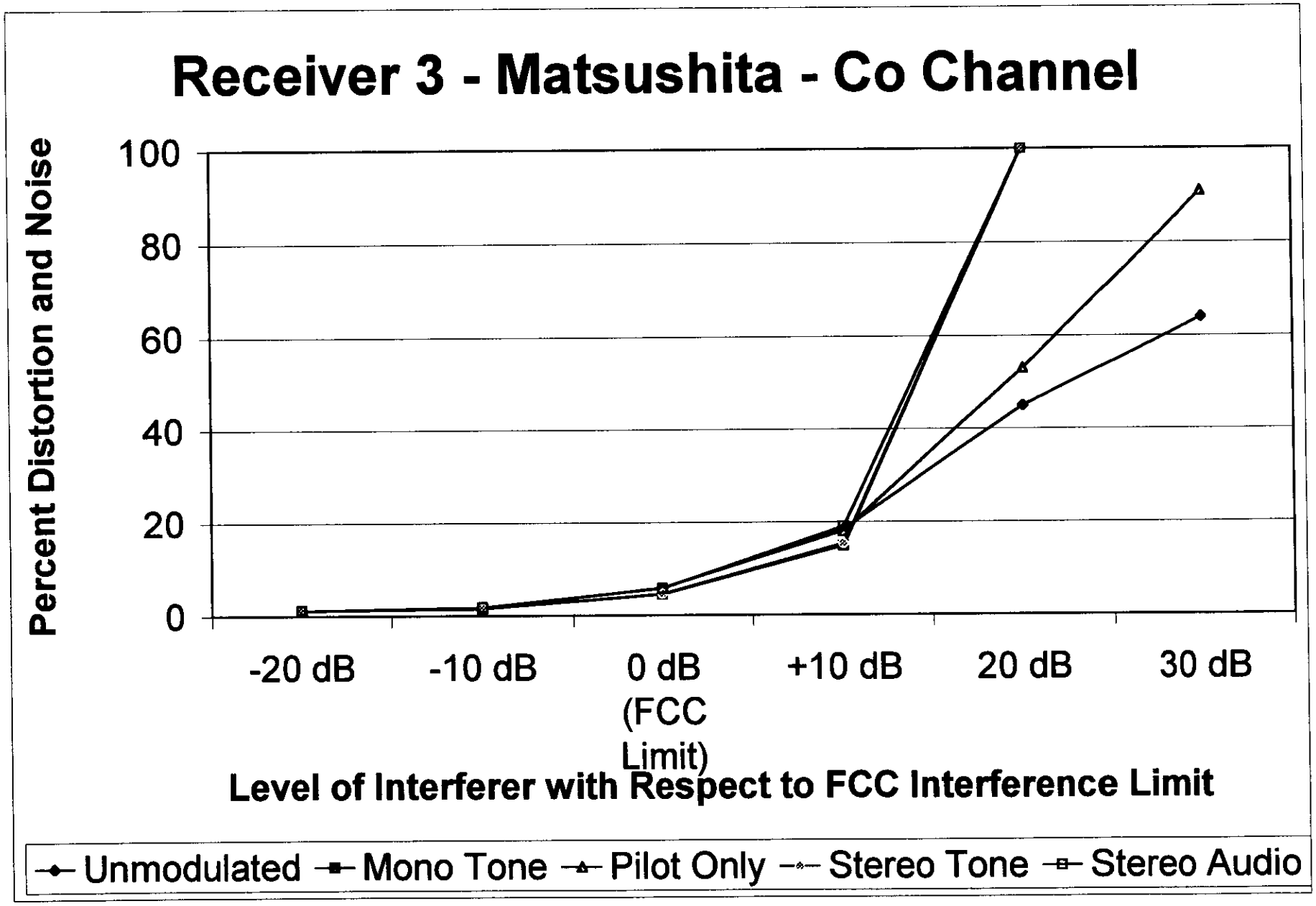
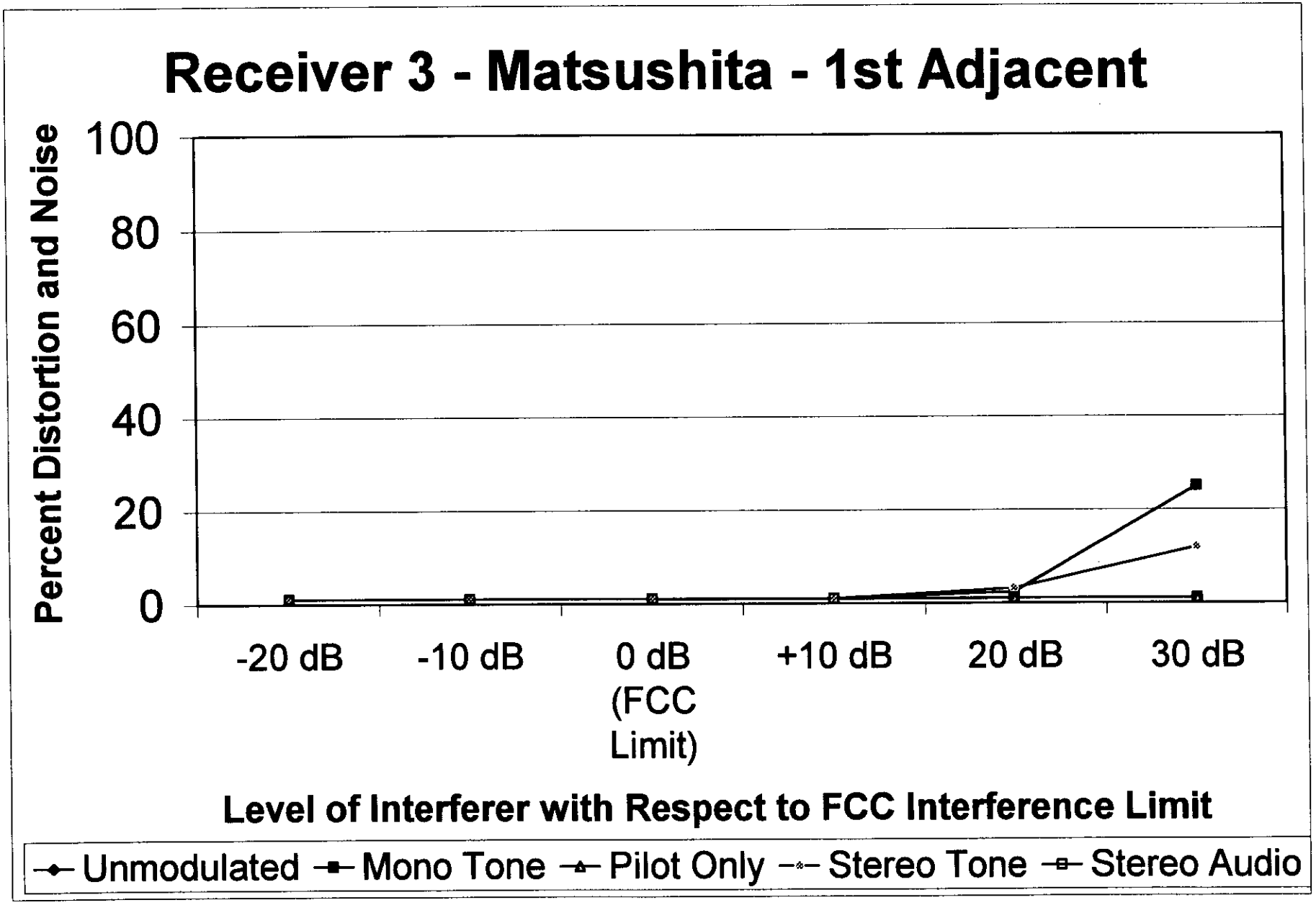
Comparison of THD+N Performance against Modulation Types

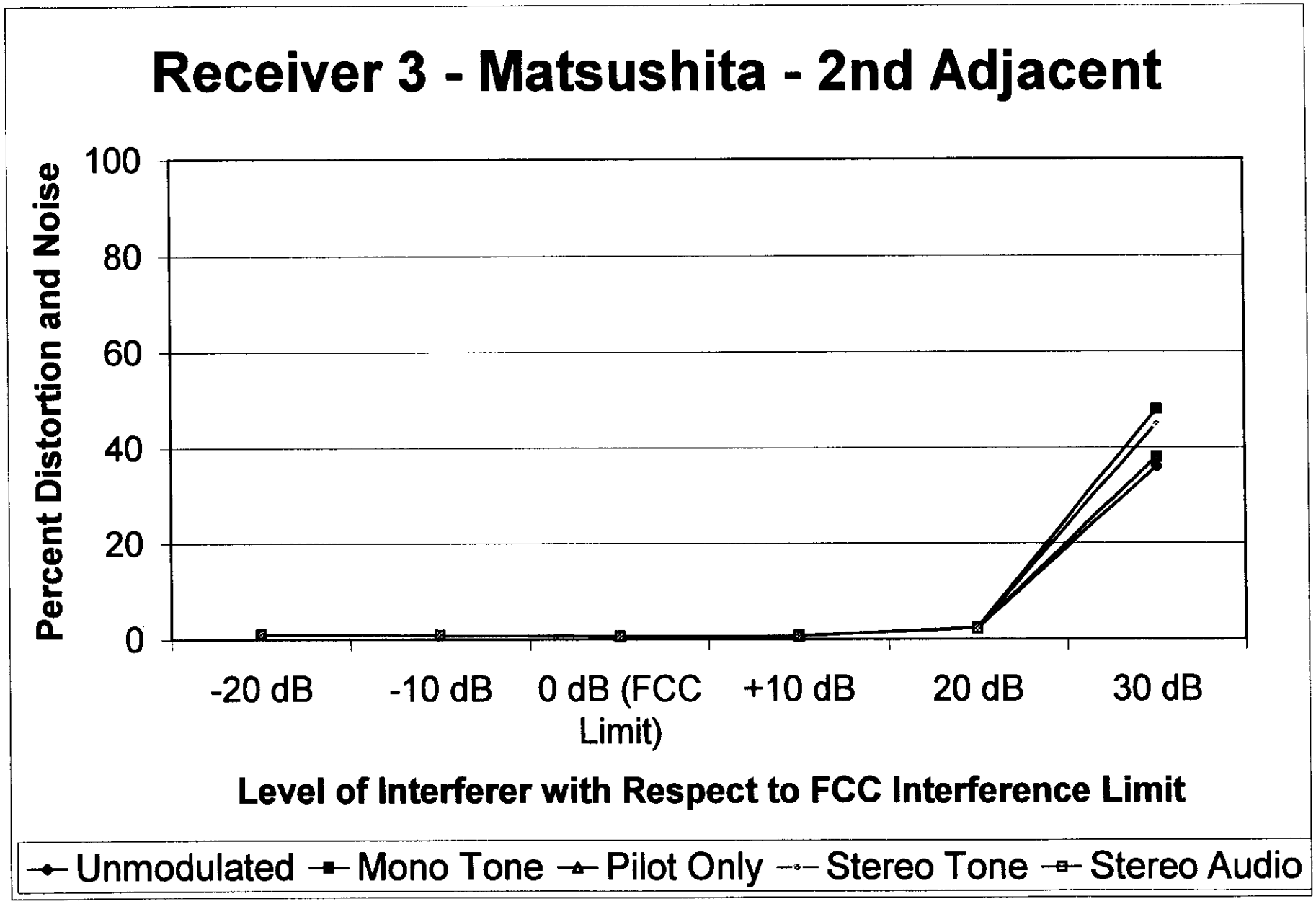
--By Radio and Adjacency

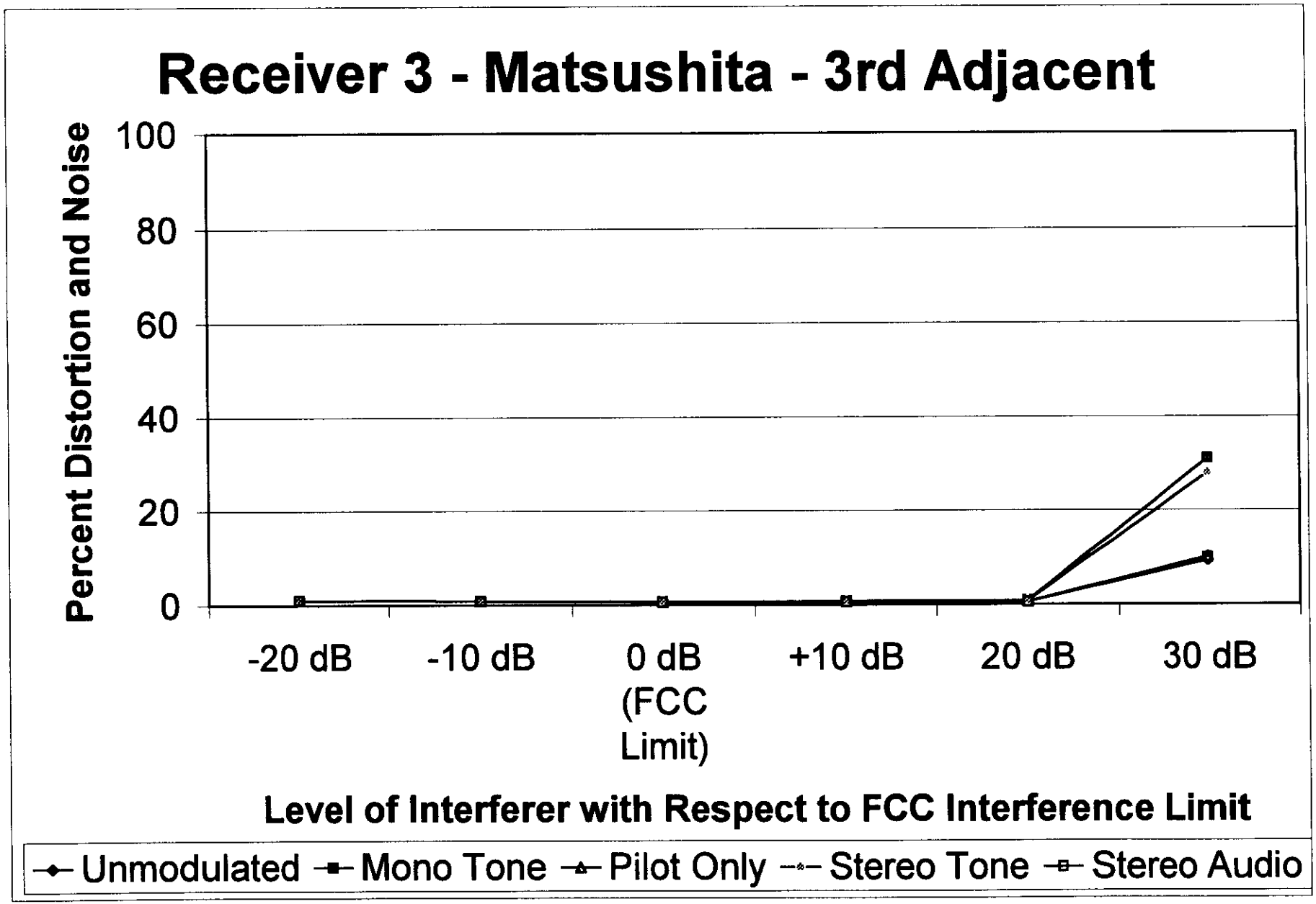
Car Radios

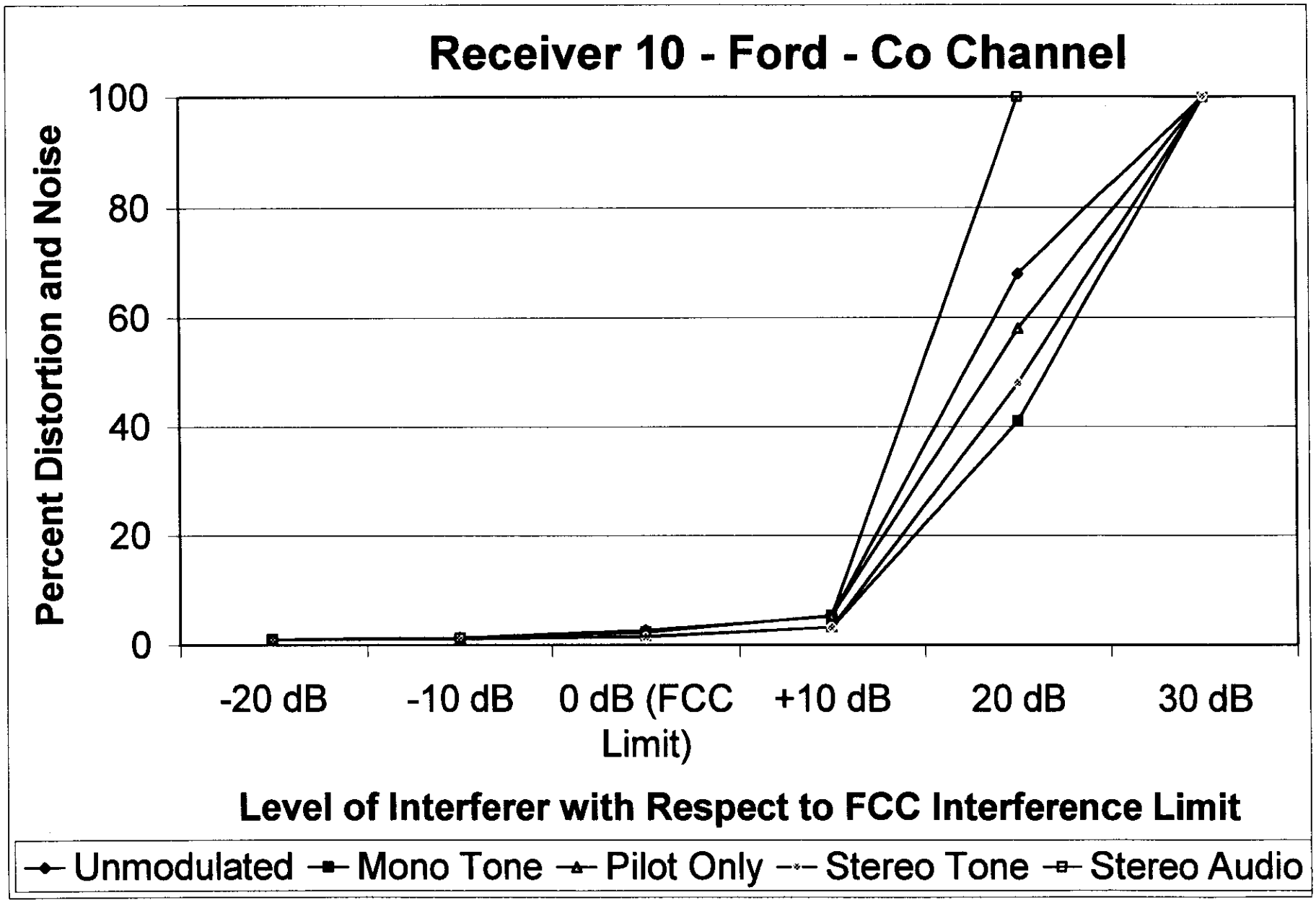
#3 Toyota/Matsushita
#10 Ford

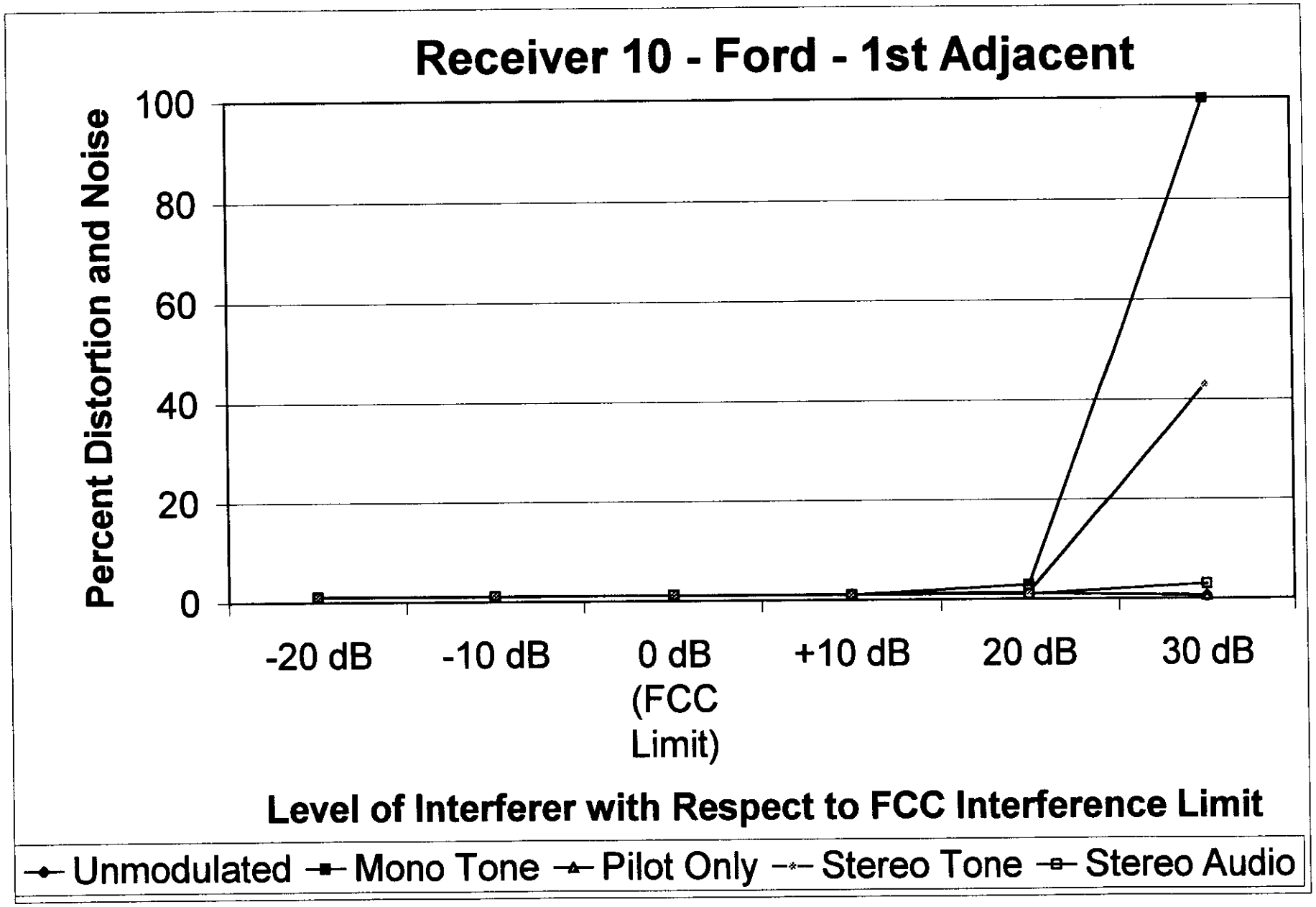

Receiver 3 - Matsushita - Co Channel
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

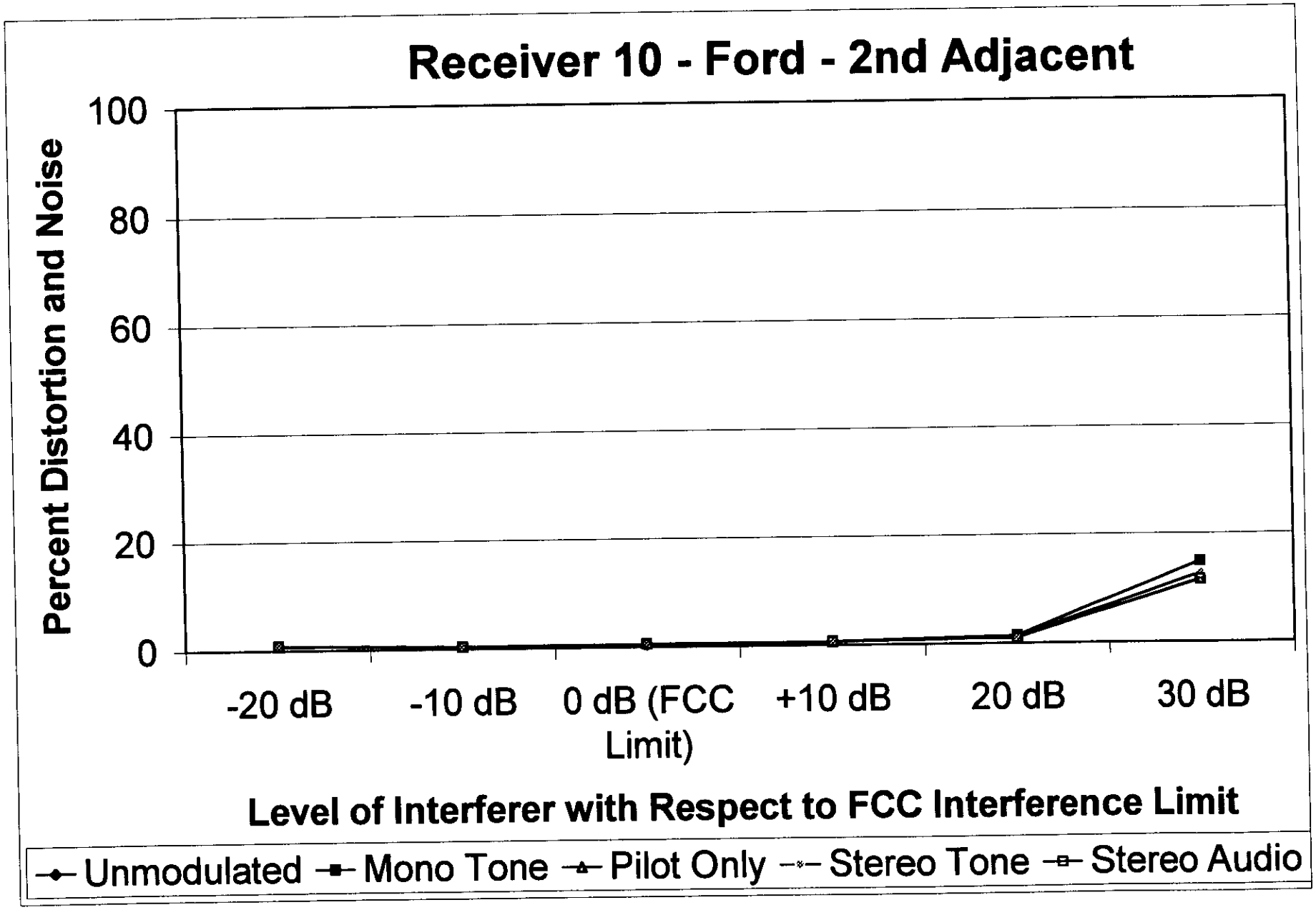

Receiver 3 - Matsushita - 1st Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

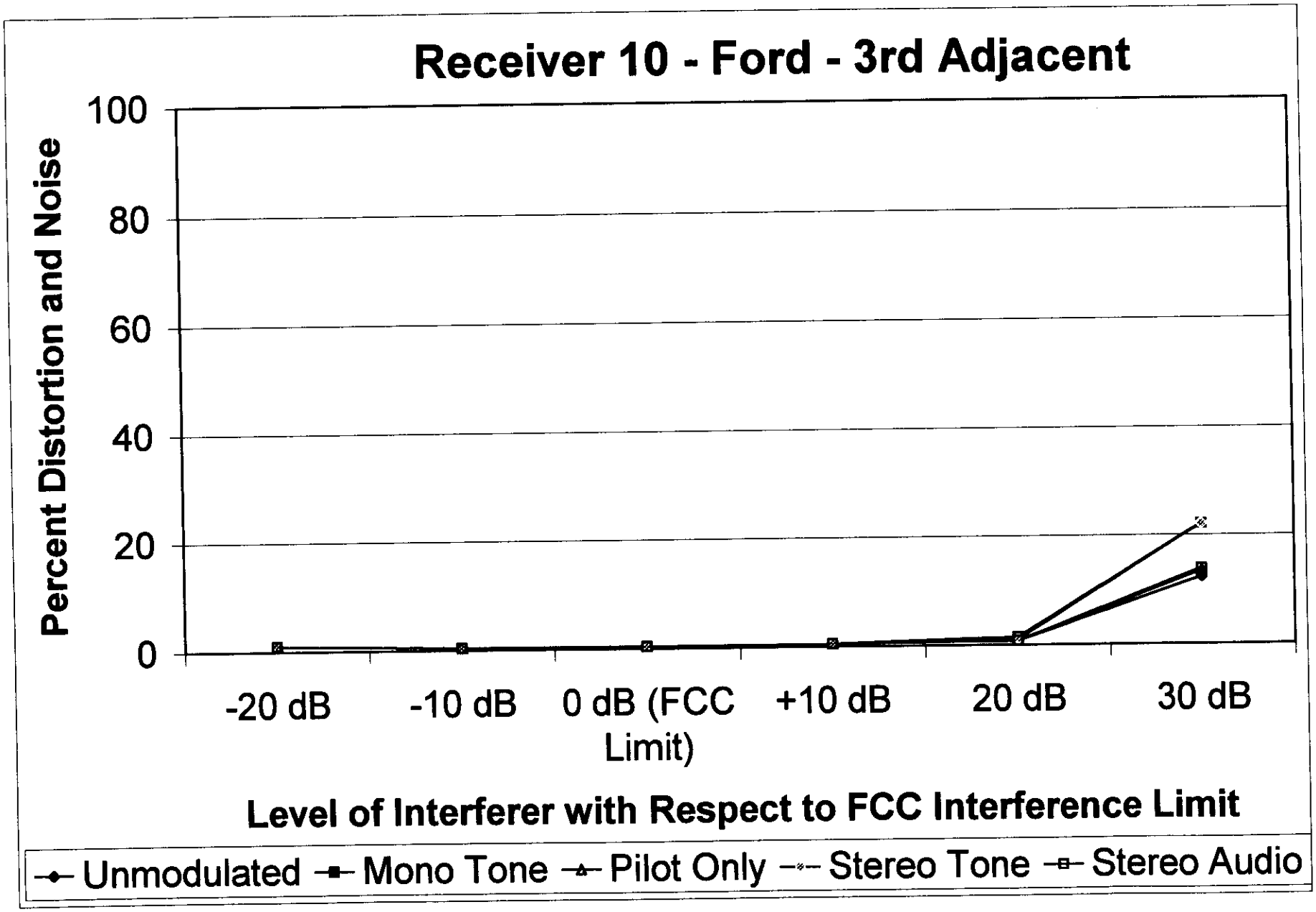

Receiver 3 - Matsushita - 2nd Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio


Receiver 3 - Matsushita - 3rd Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio


Receiver 10 - Ford - Co Channel
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio


Receiver 10 - Ford - 1st Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio


Receiver 10 - Ford - 2nd Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

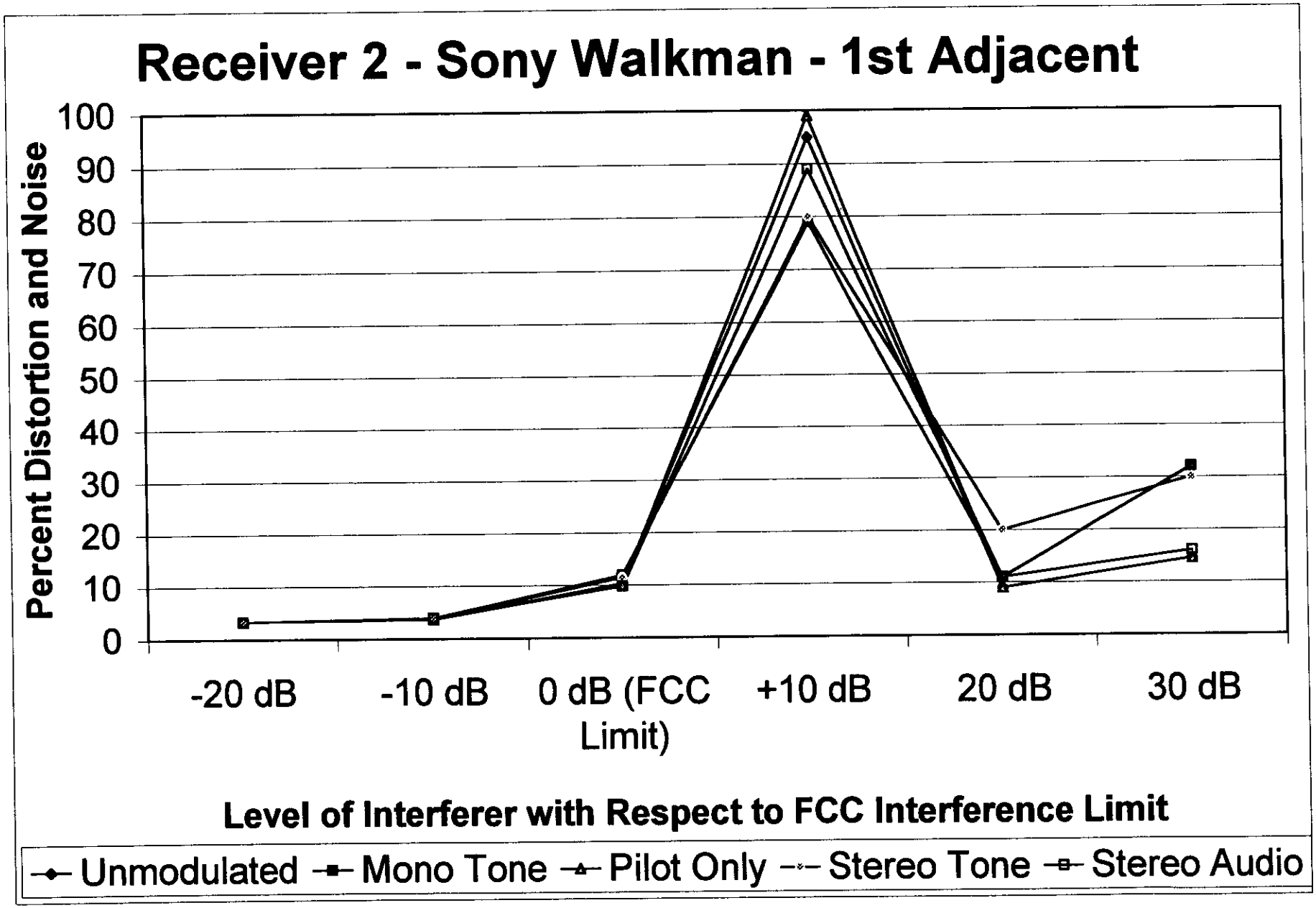

Receiver 10 - Ford - 3rd Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

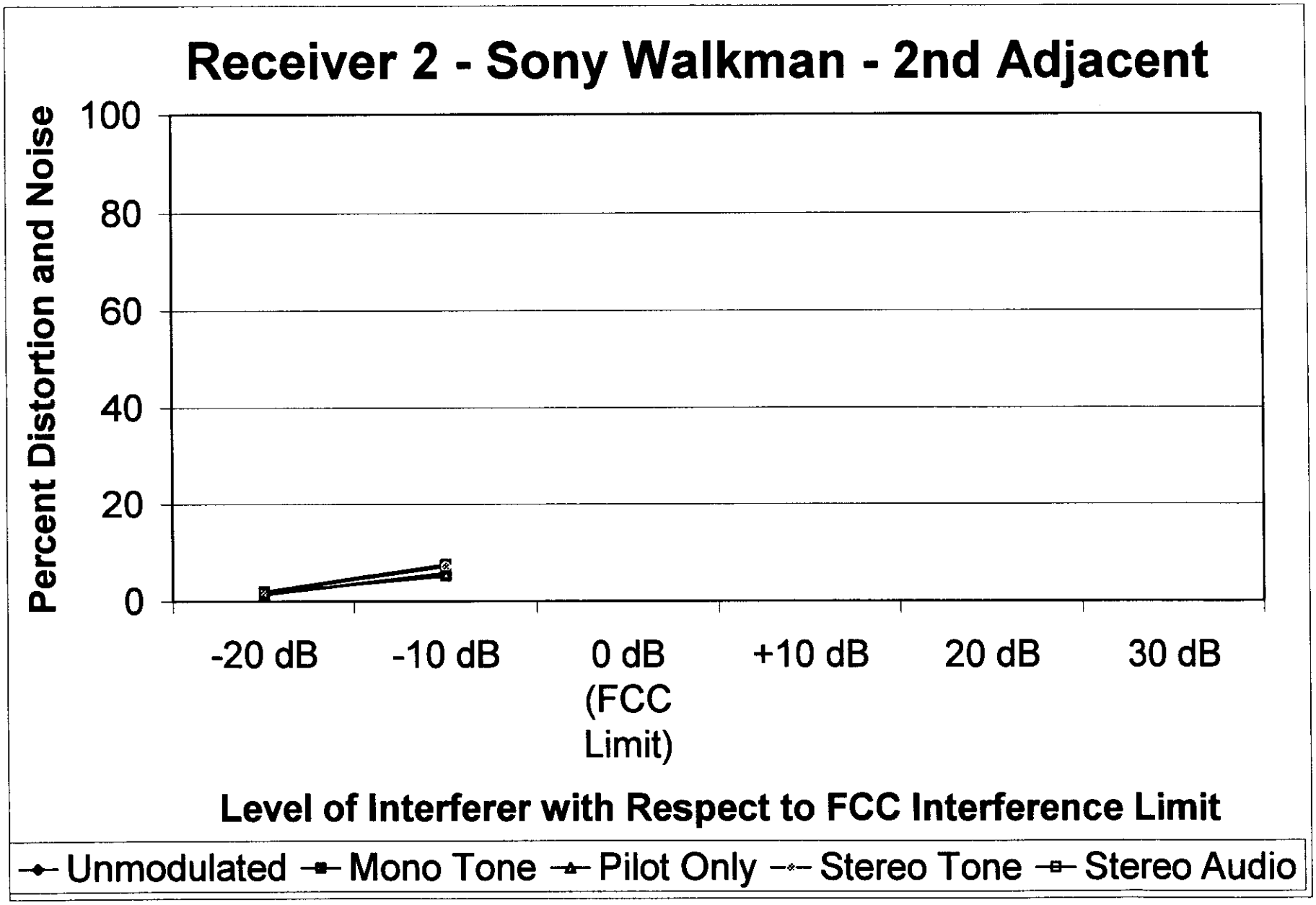
Comparison of THD+N Performance against Modulation Types

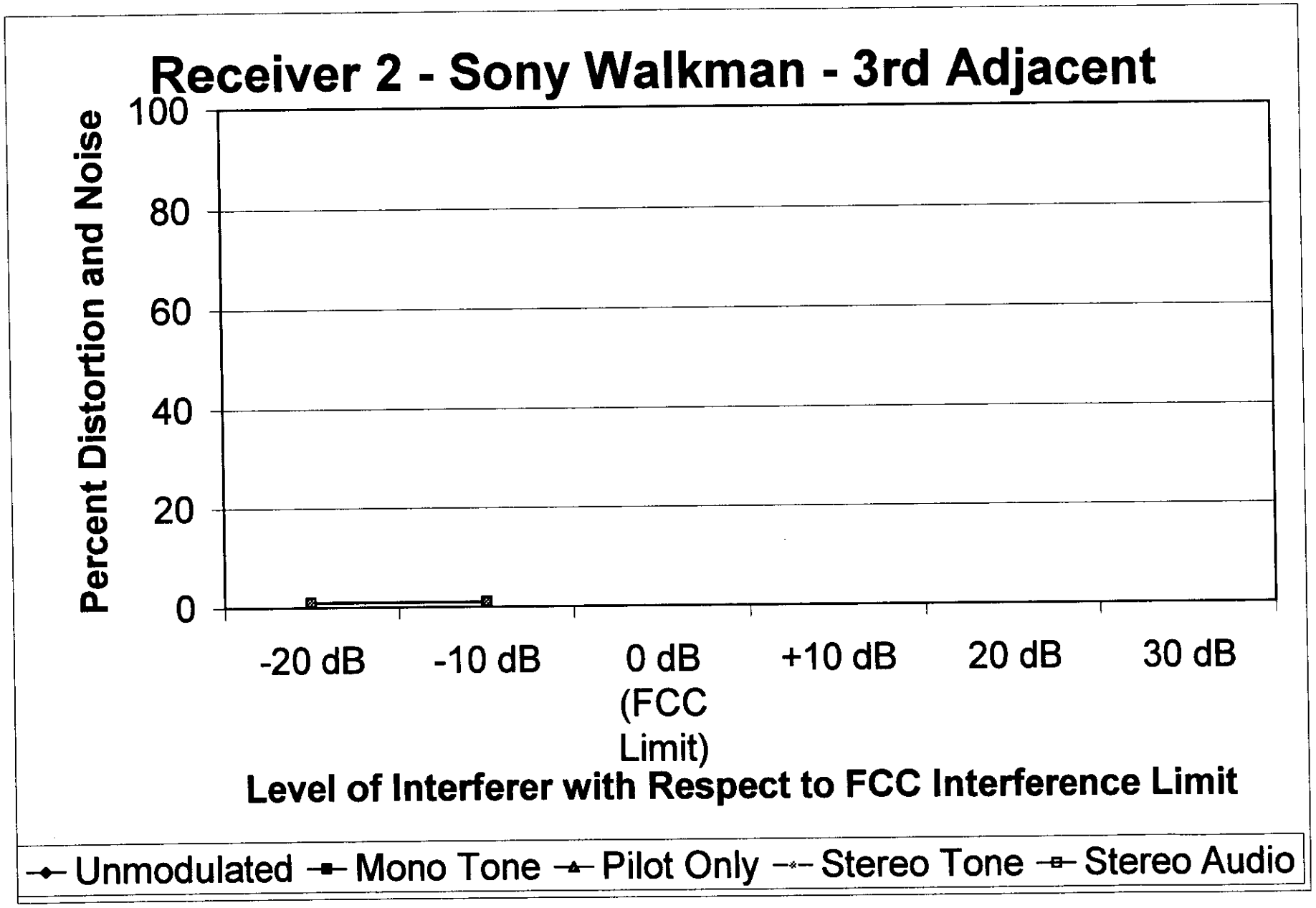
--By Radio and Adjacency

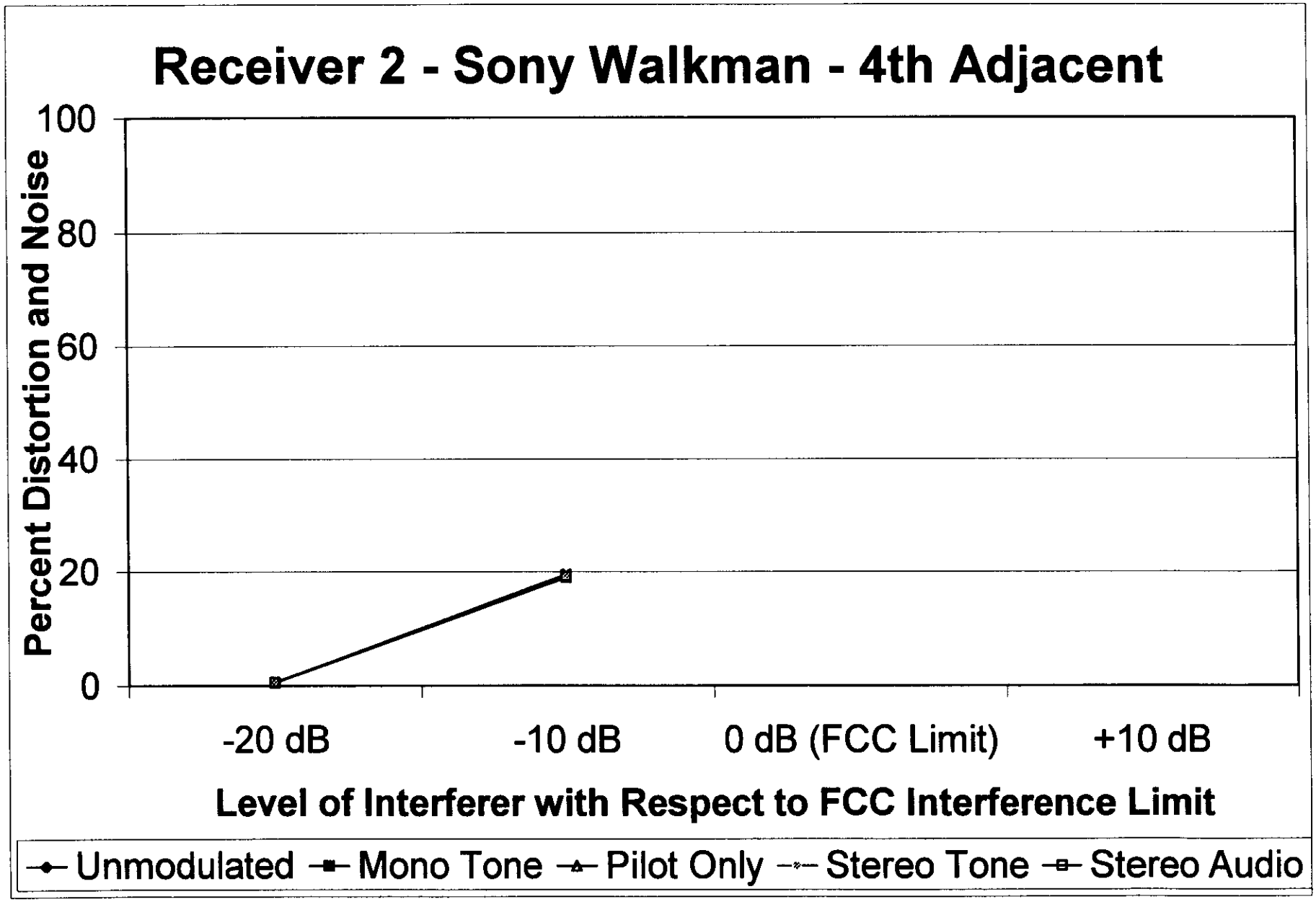
Lower Price Radios

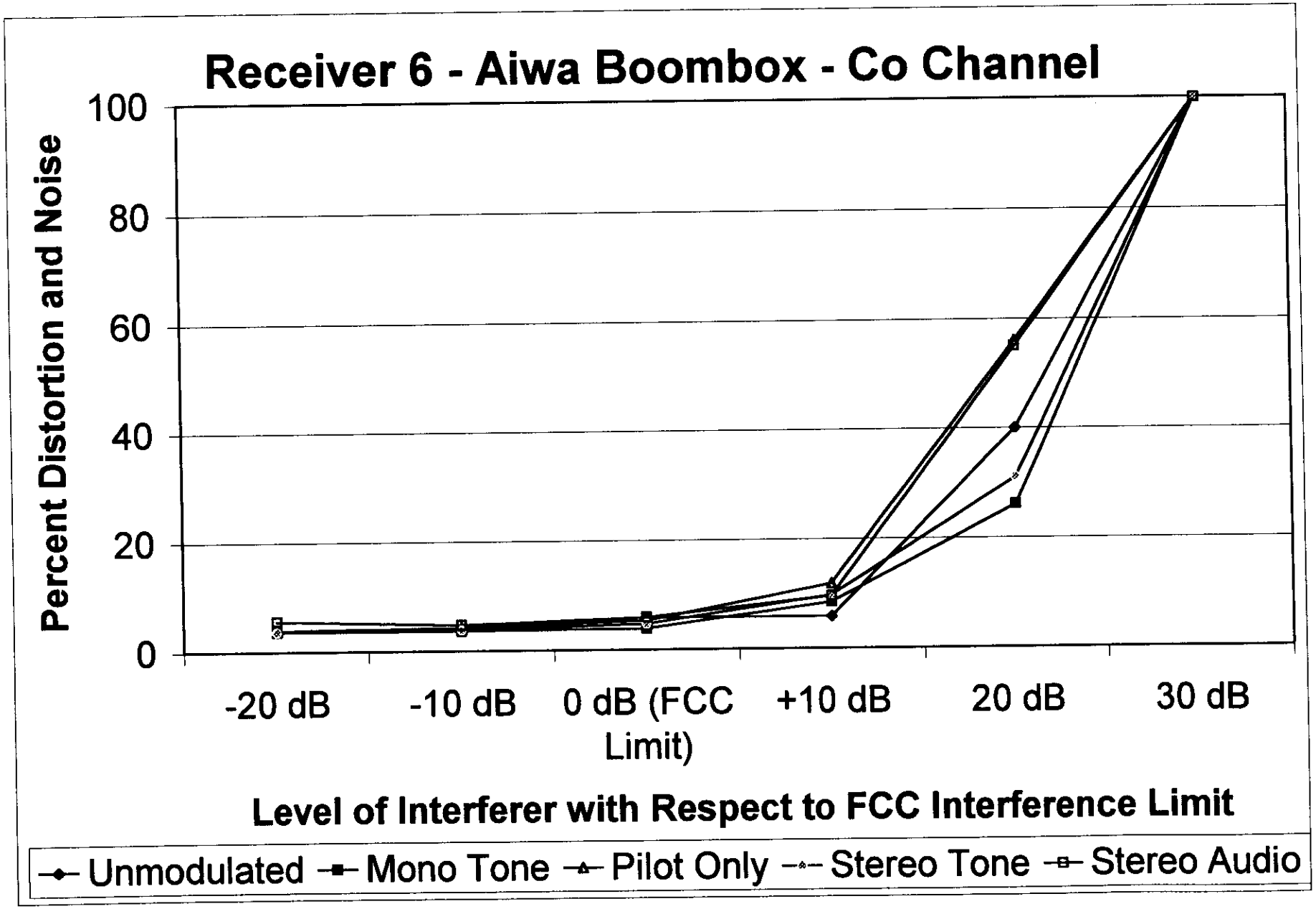
#2 Sony Walkman
#5 Sony Clock
#6 Aiwa Boom Box
7 Sony Boom Box
#11 Aiwa Integrated System

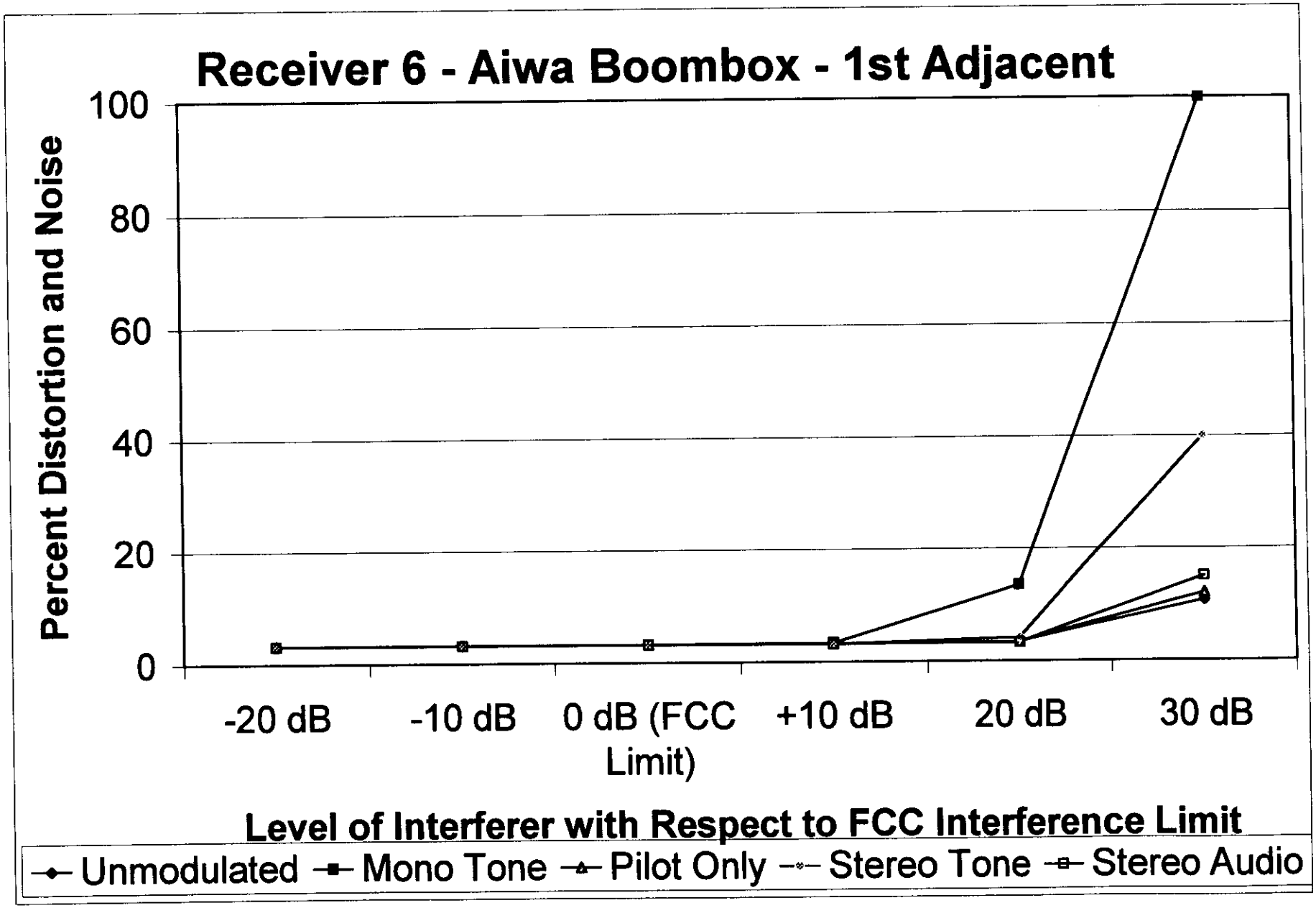

Receiver 2 - Sony Walkman - 1st Adjacent
Percent Distortion and Noise
100
90
80
70
60
50
40
30
20
10
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

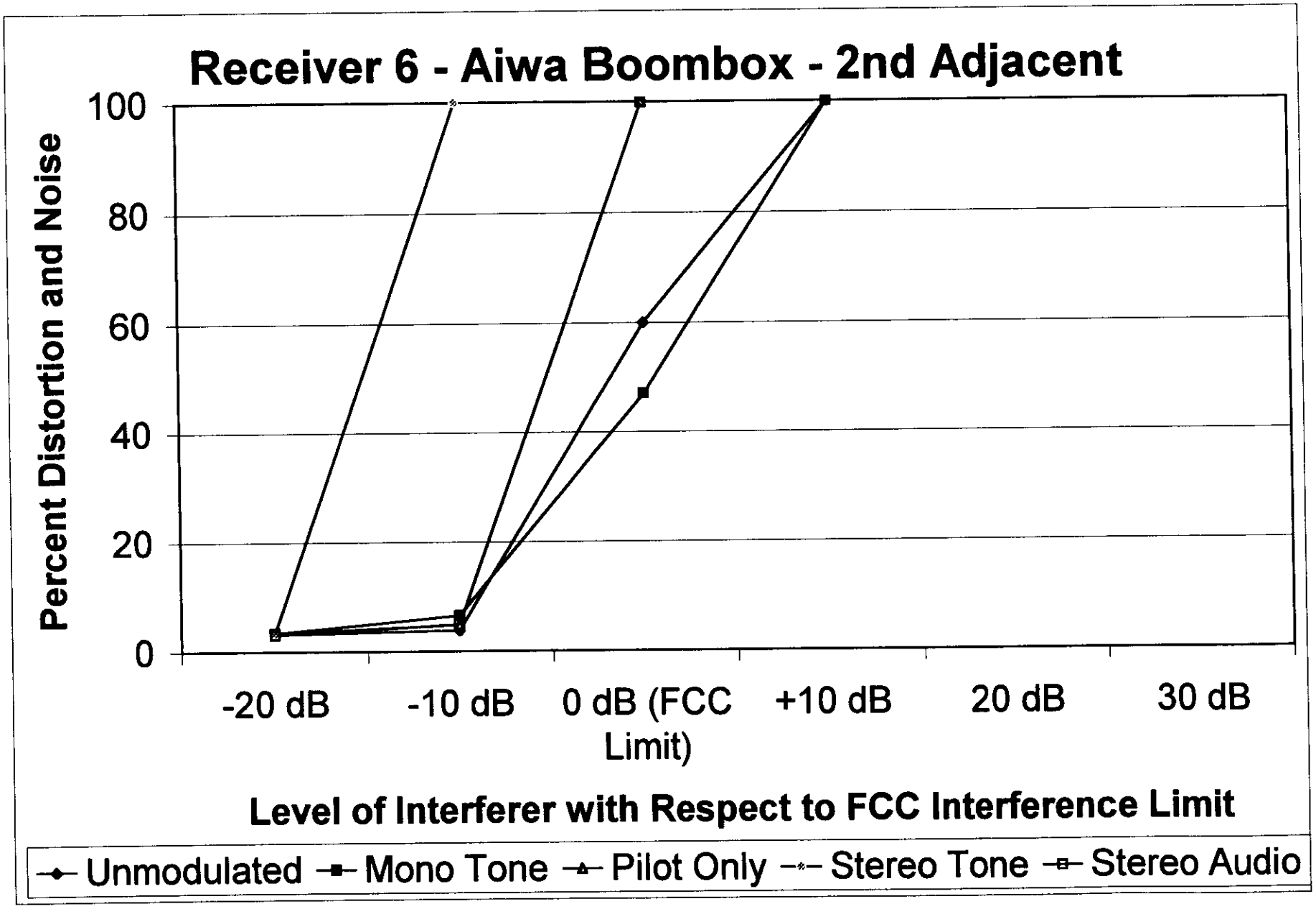

Receiver 2 - Sony Walkman - 2nd Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

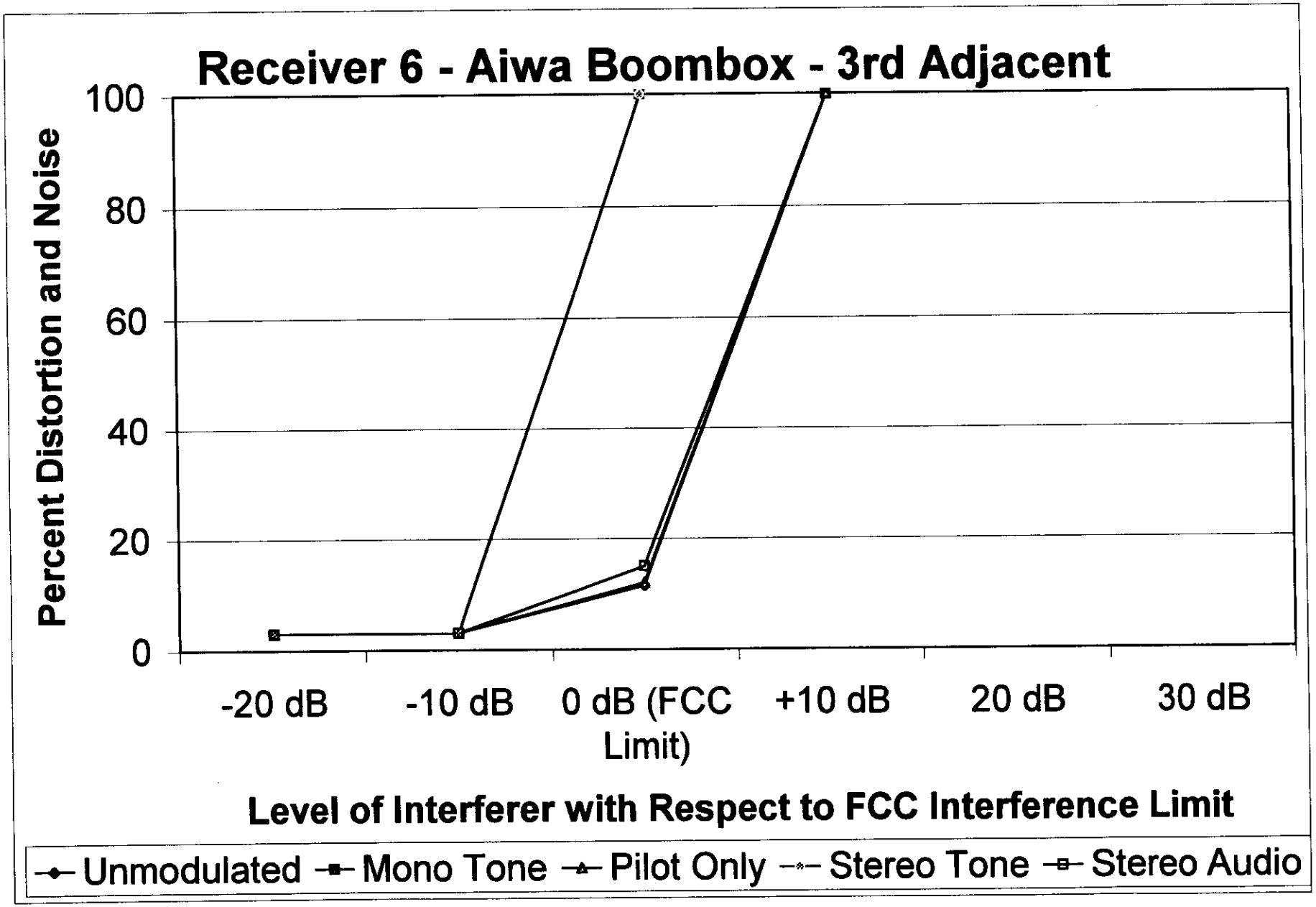

Receiver 2 - Sony Walkman - 3rd Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

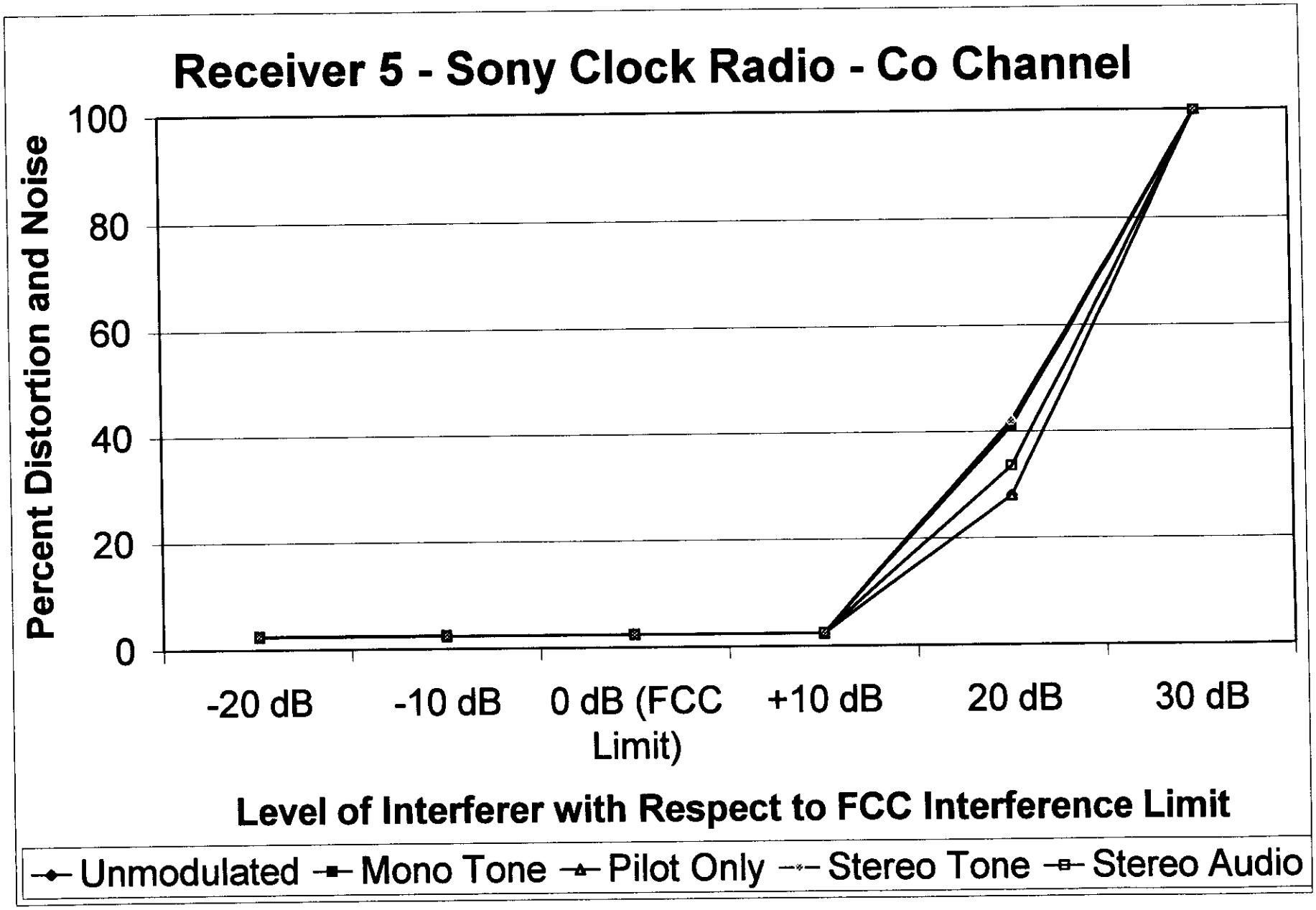

Receiver 2 - Sony Walkman - 4th Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

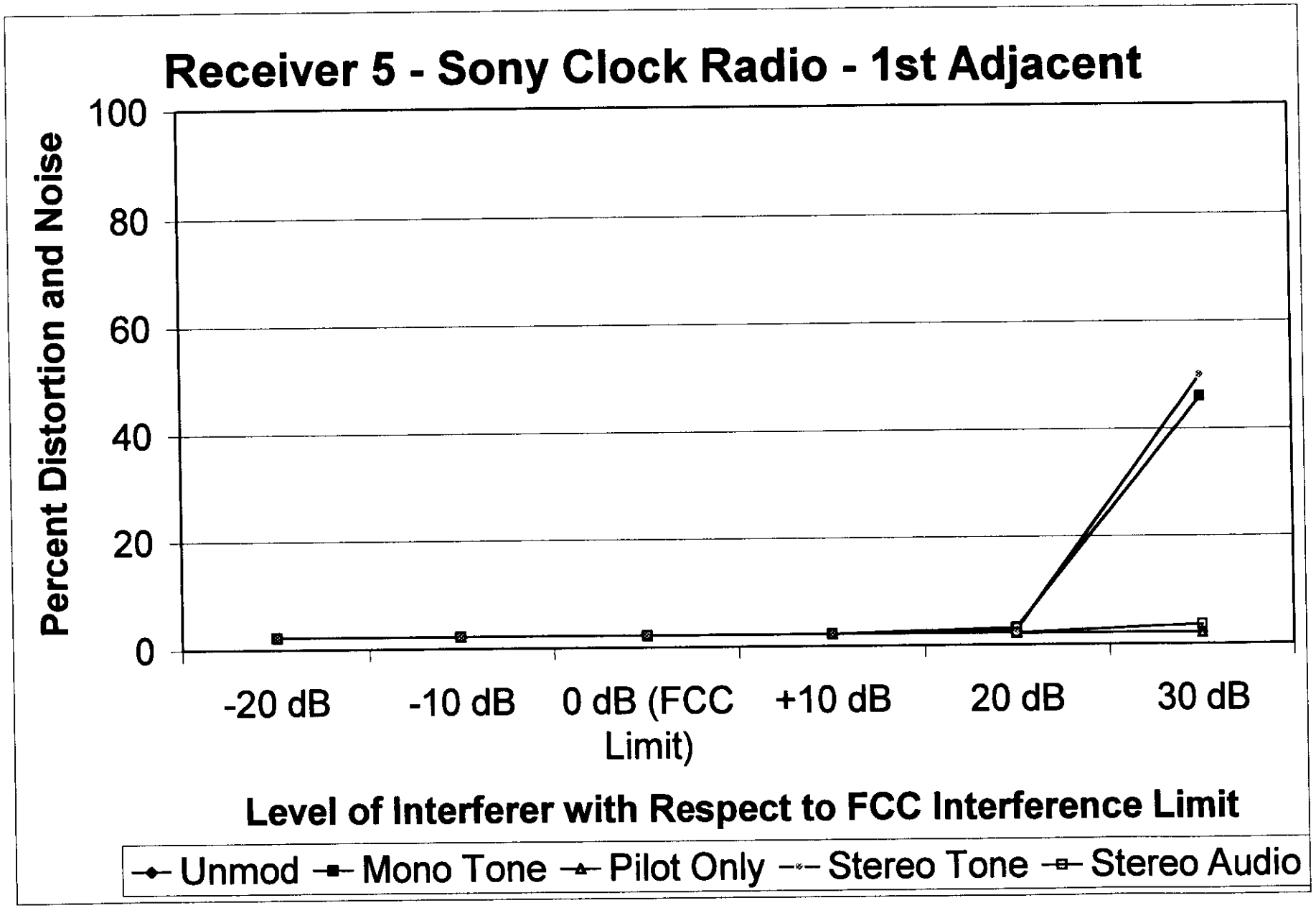

Receiver 6 - Aiwa Boombox - Co Channel
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

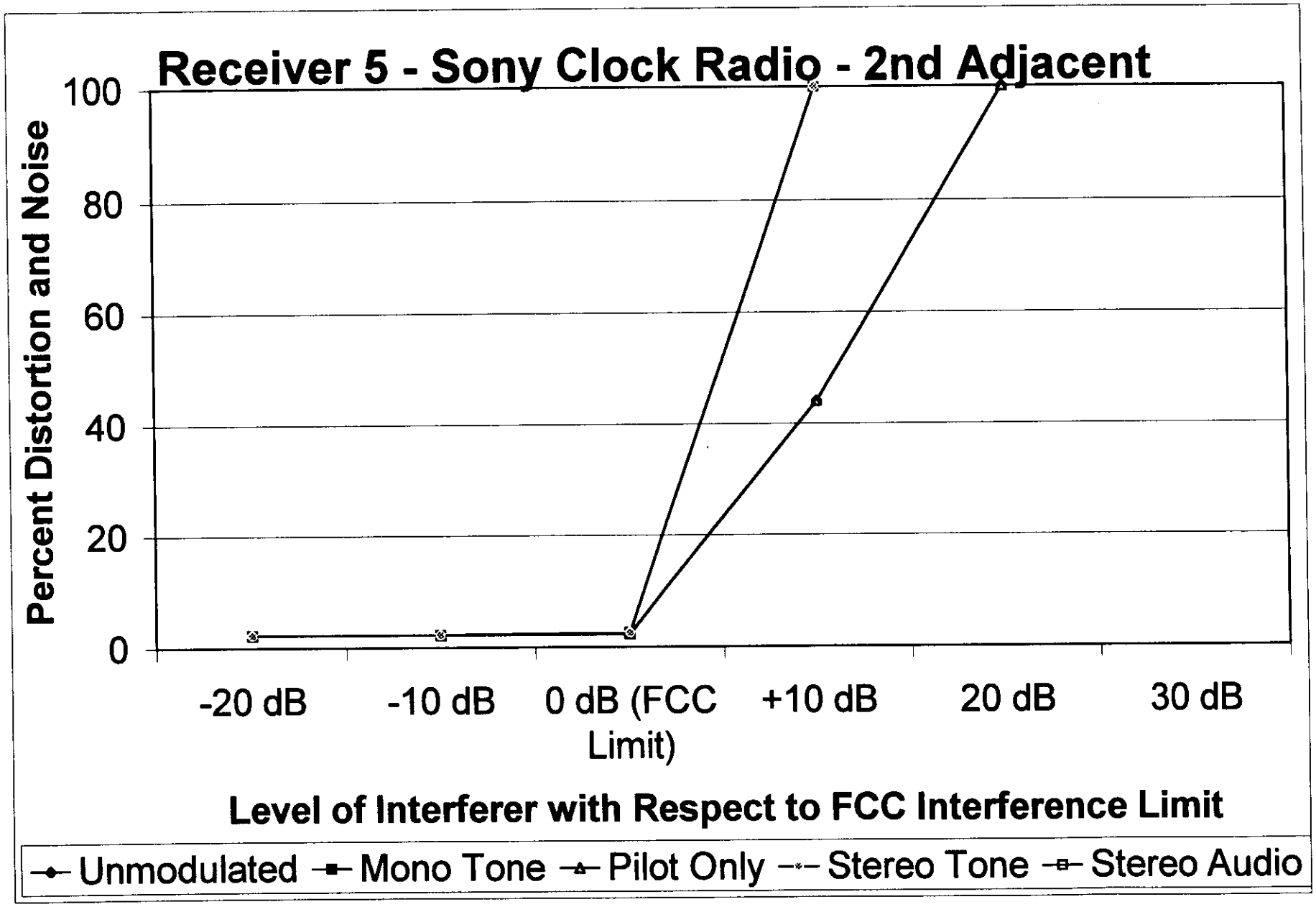

Receiver 6 - Aiwa Boombox - 1st Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

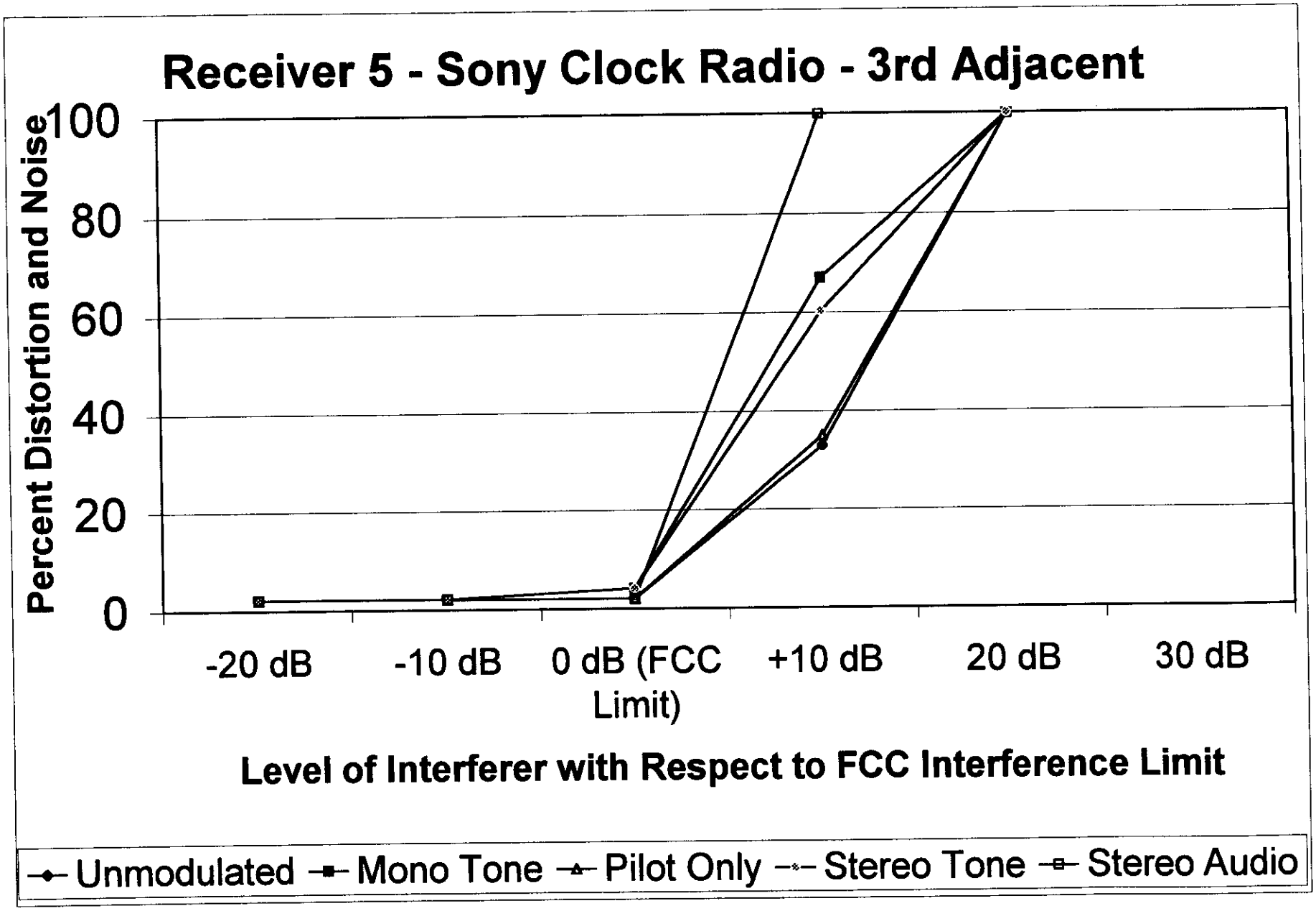

Receiver 6 - Aiwa Boombox - 2nd Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

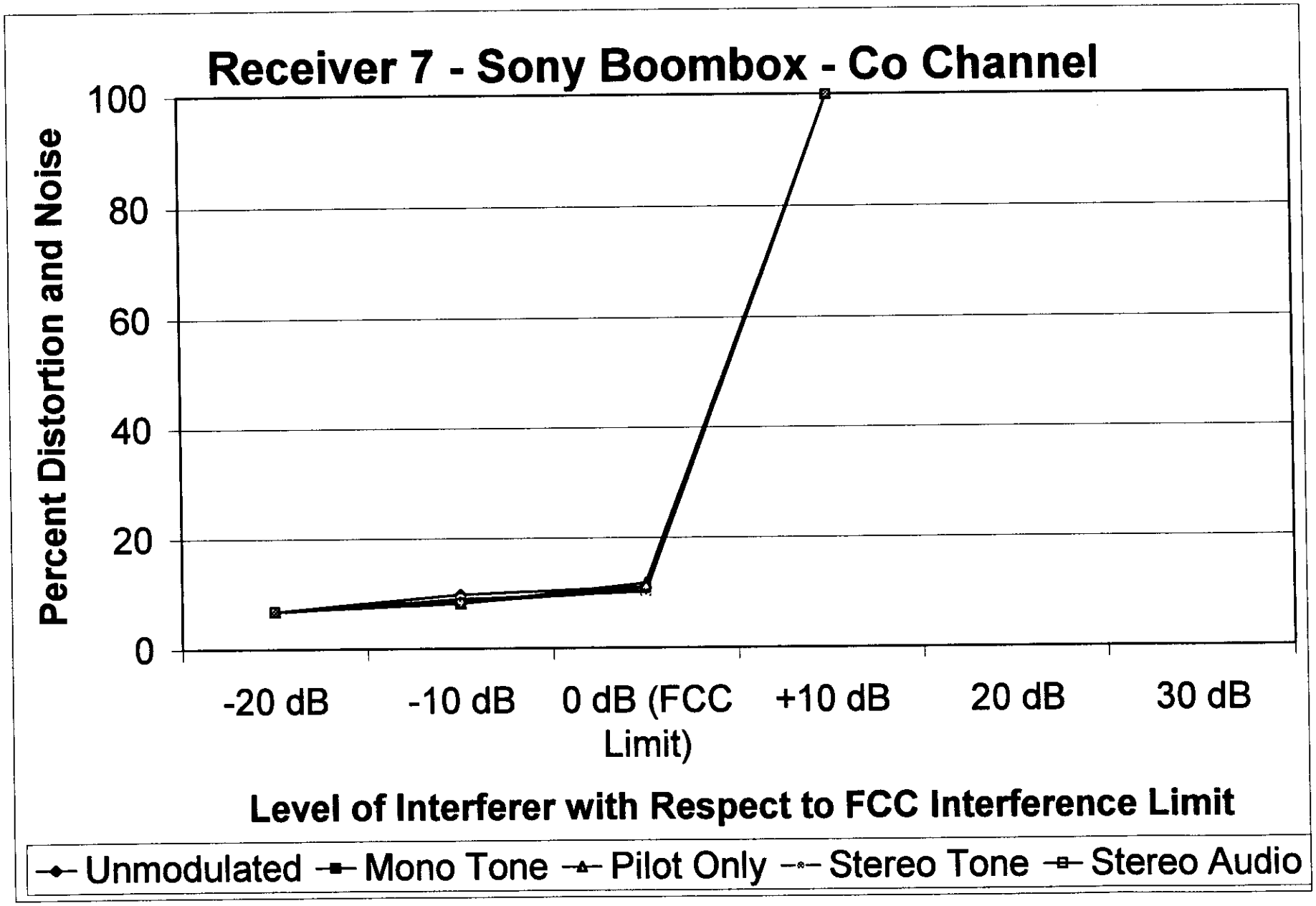

Receiver 6 - Aiwa Boombox - 3rd Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

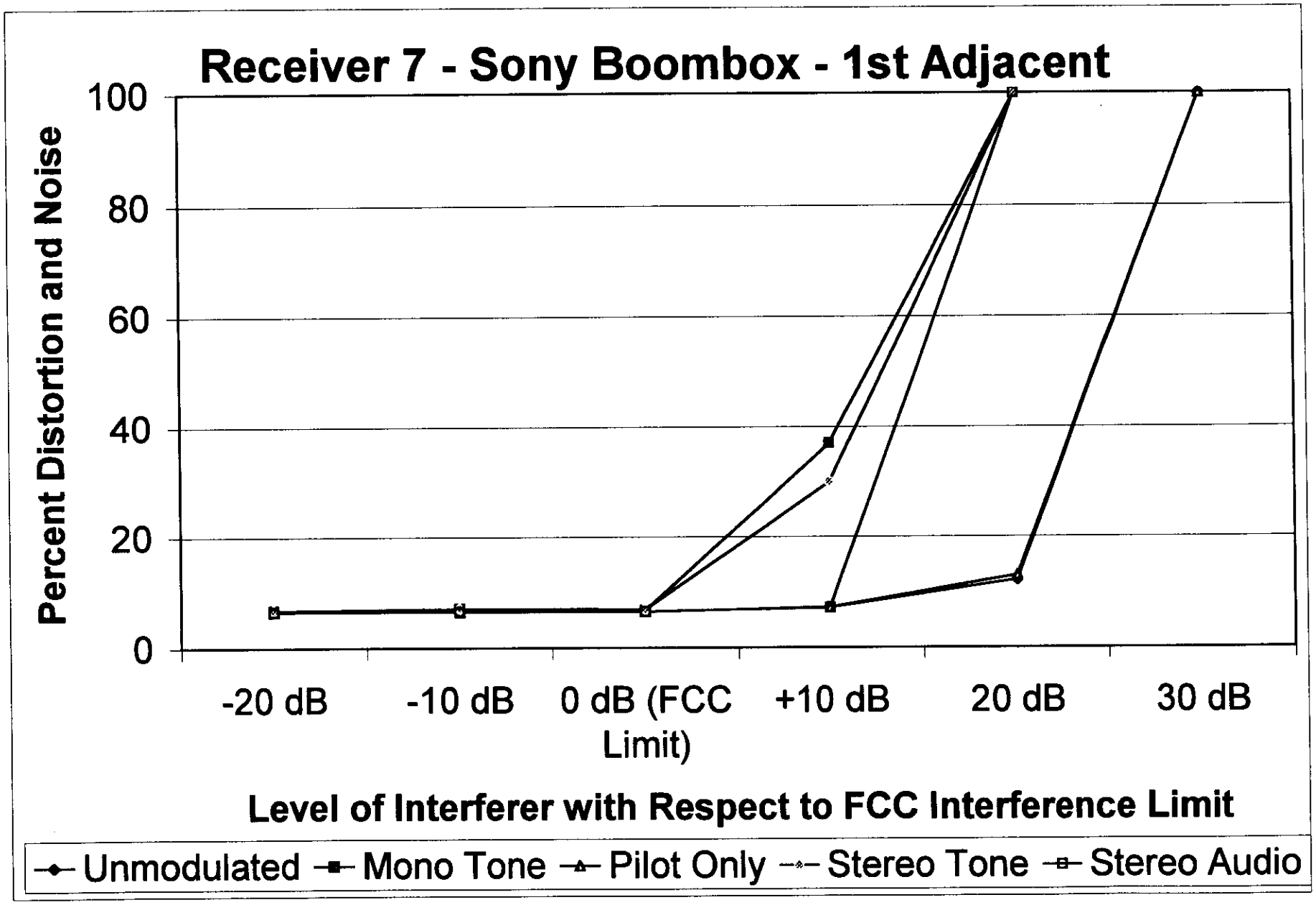

Receiver 5 - Sony Clock Radio - Co Channel
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

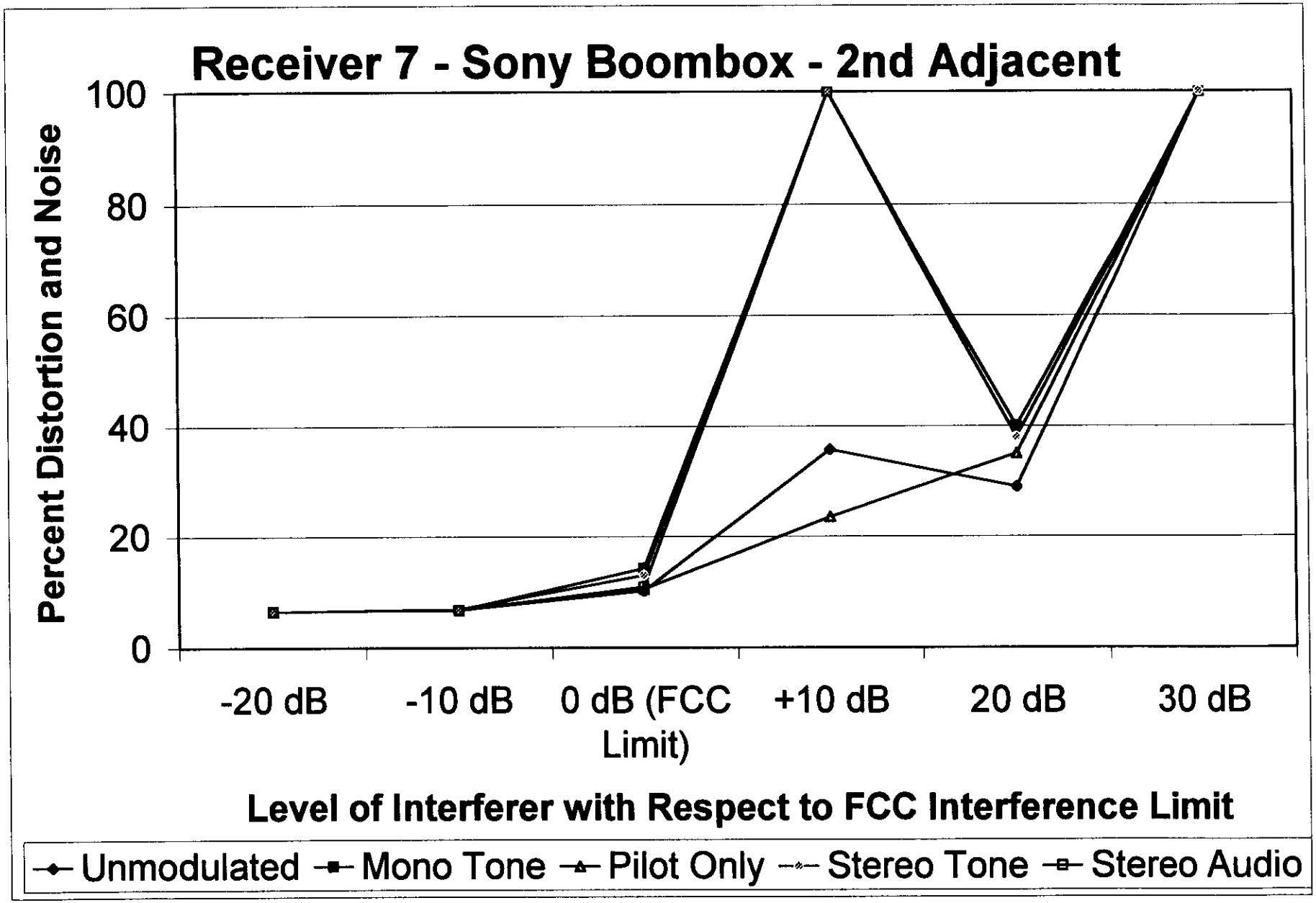

Receiver 5 - Sony Clock Radio - 1st Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmod
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

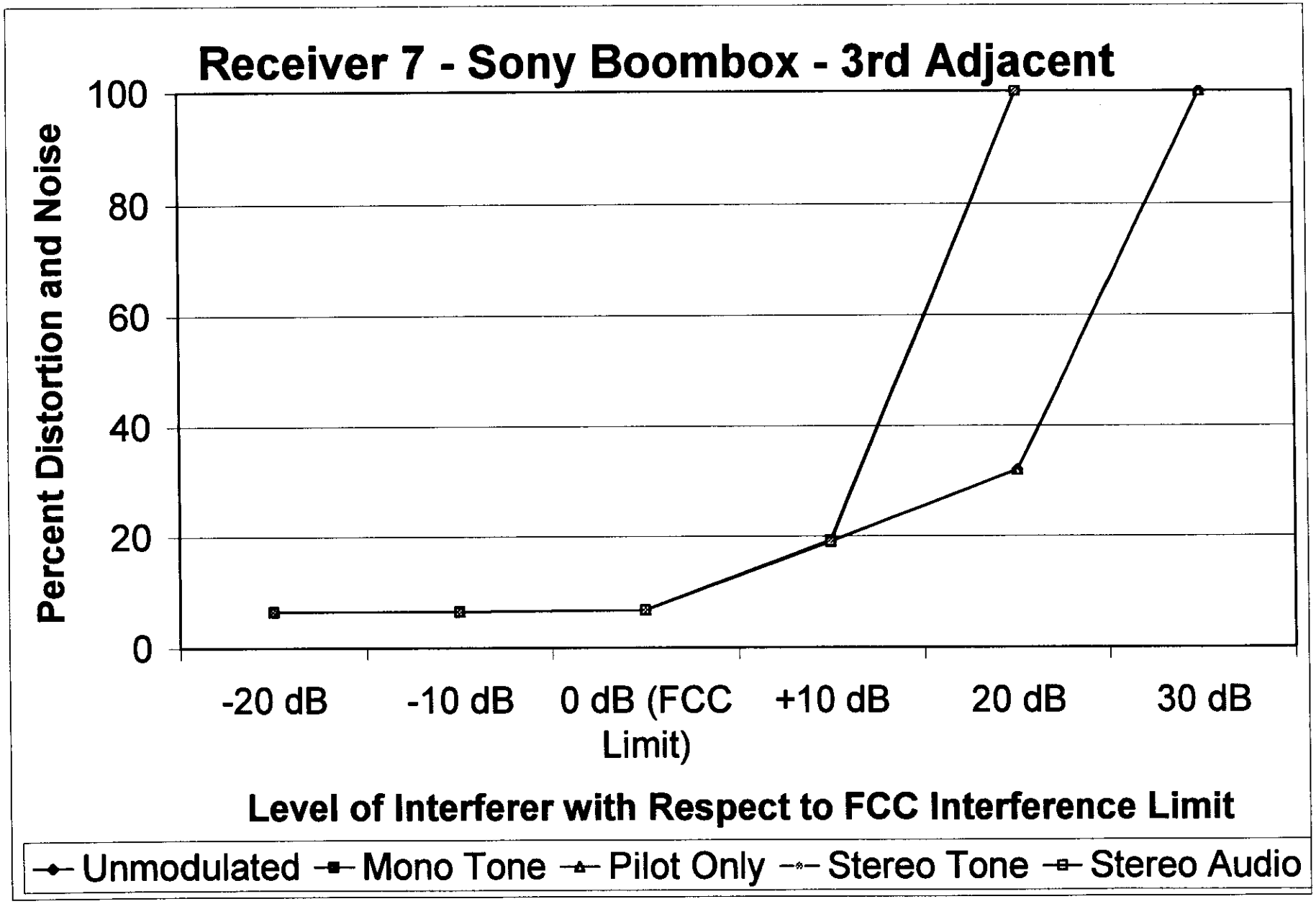

Receiver 5 - Sony Clock Radio - 2nd Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

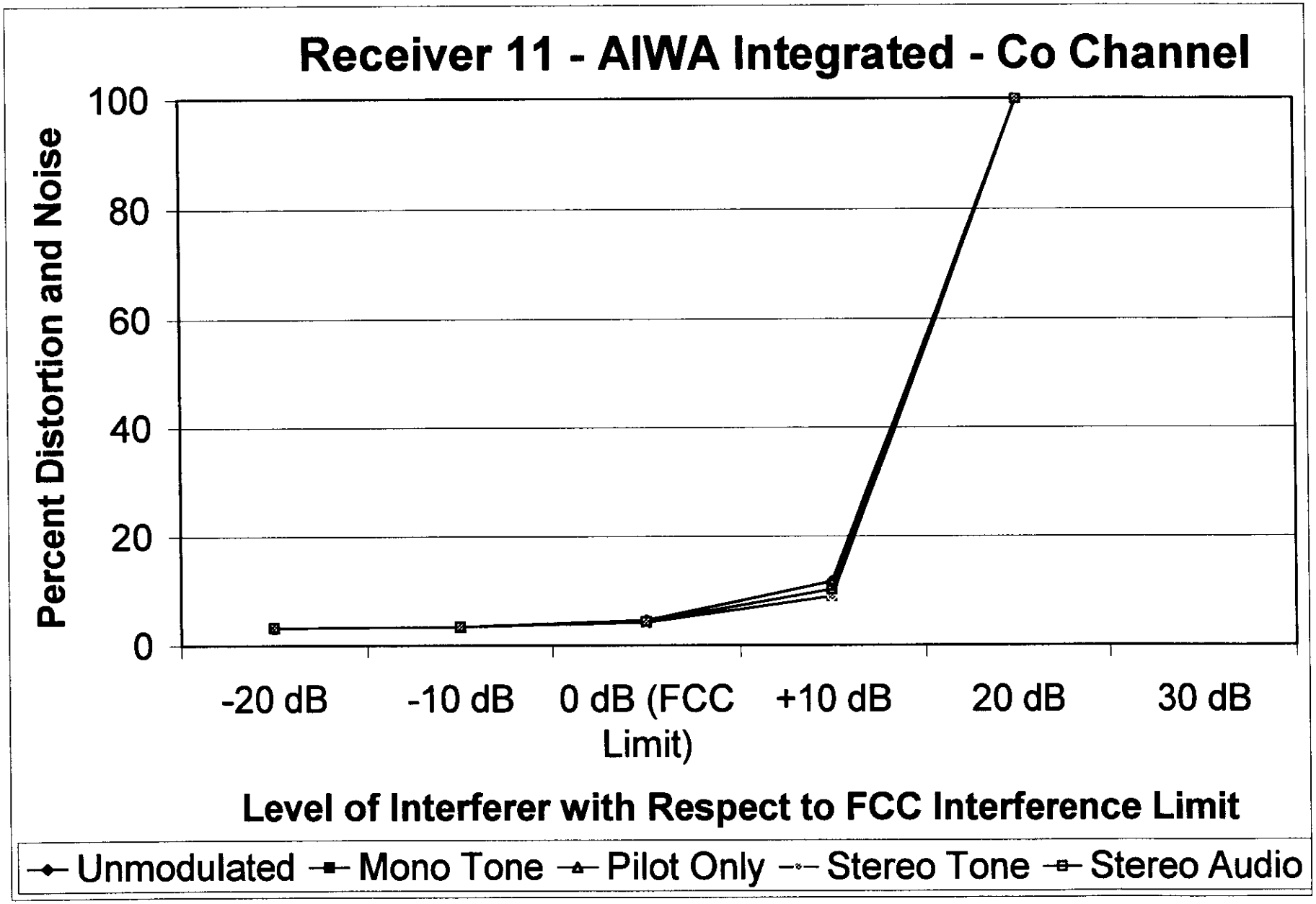

Receiver 5 - Sony Clock Radio - 3rd Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

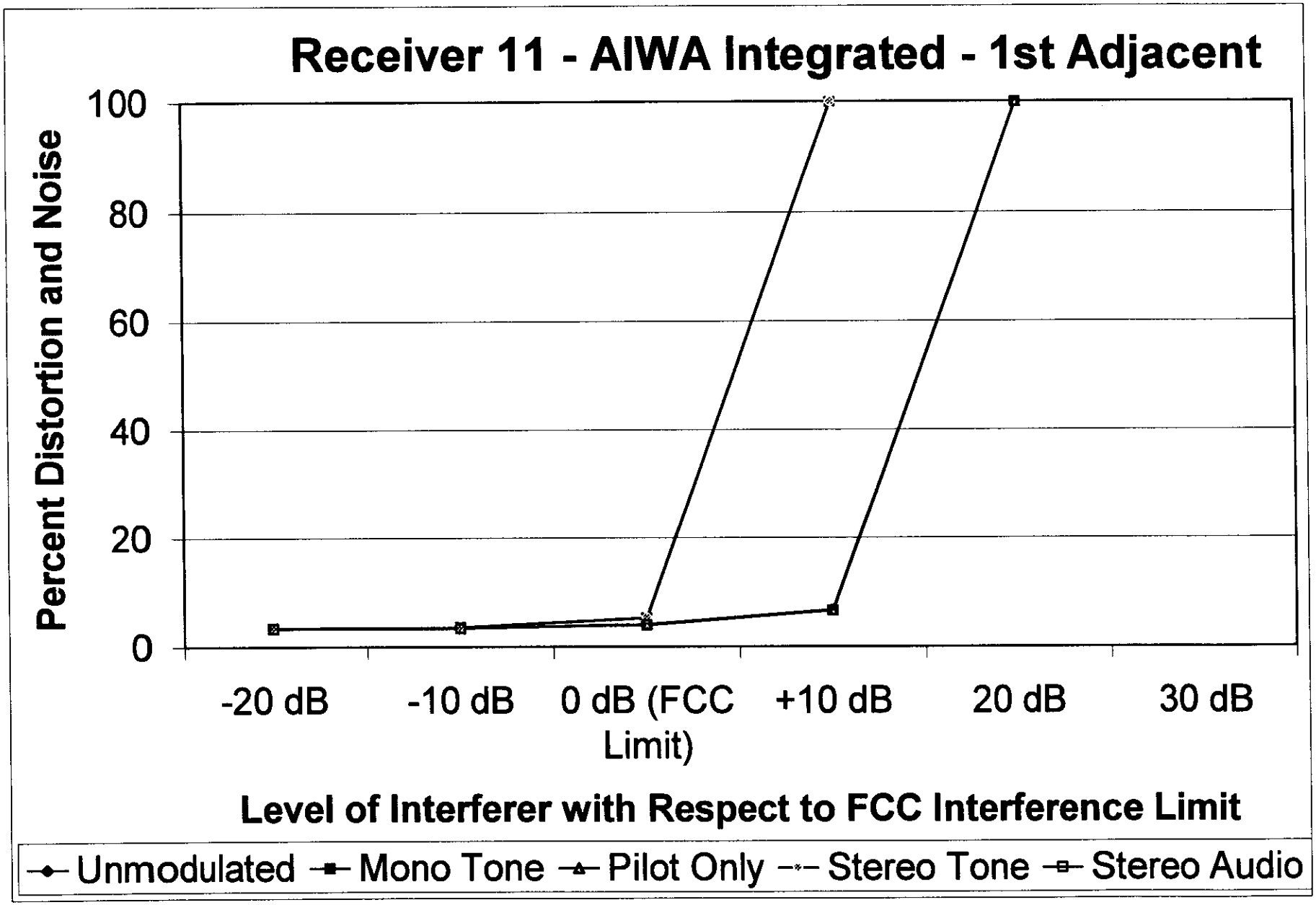

Receiver 7 - Sony Boombox - Co Channel
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

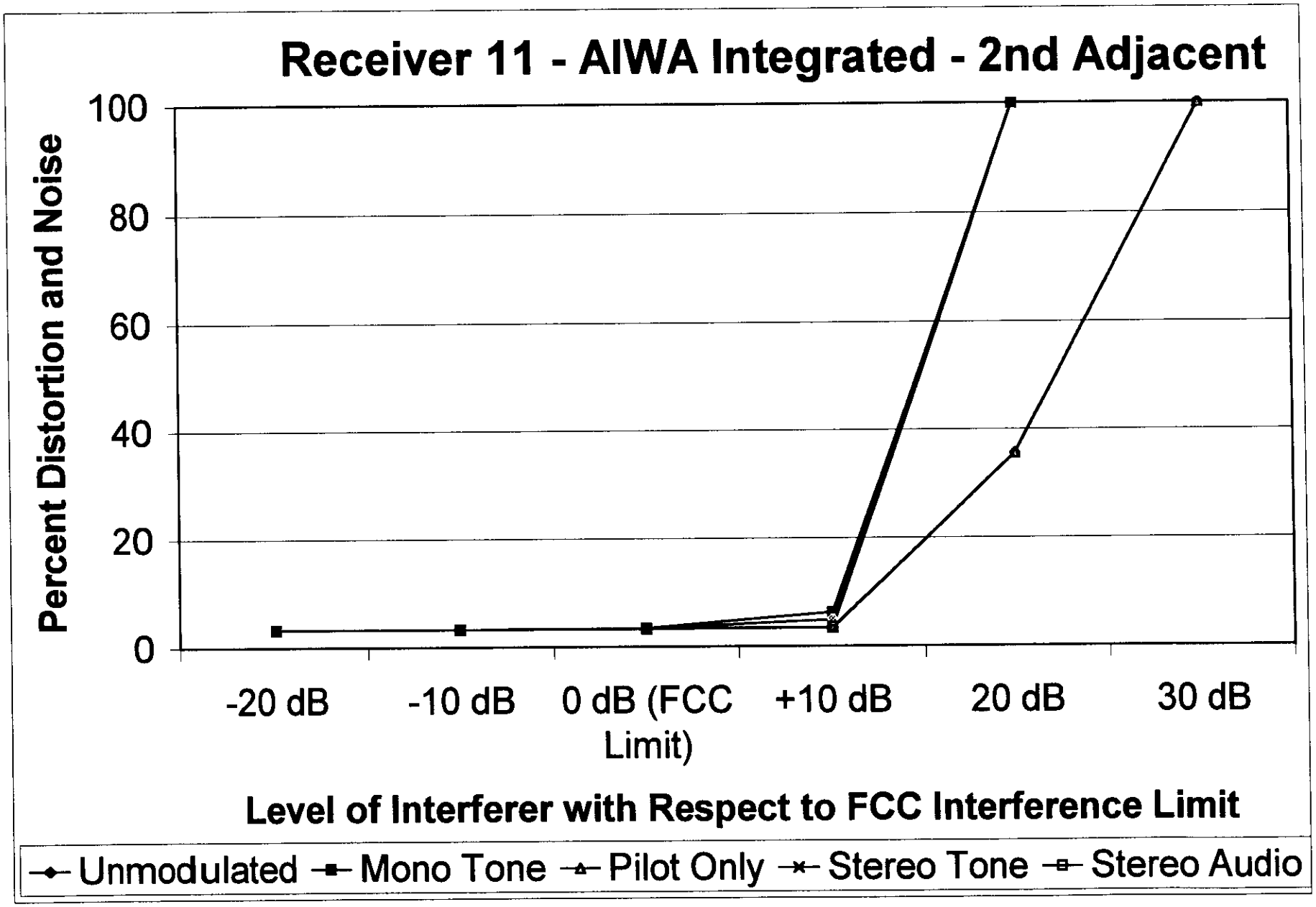

Receiver 7 - Sony Boombox - 1st Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

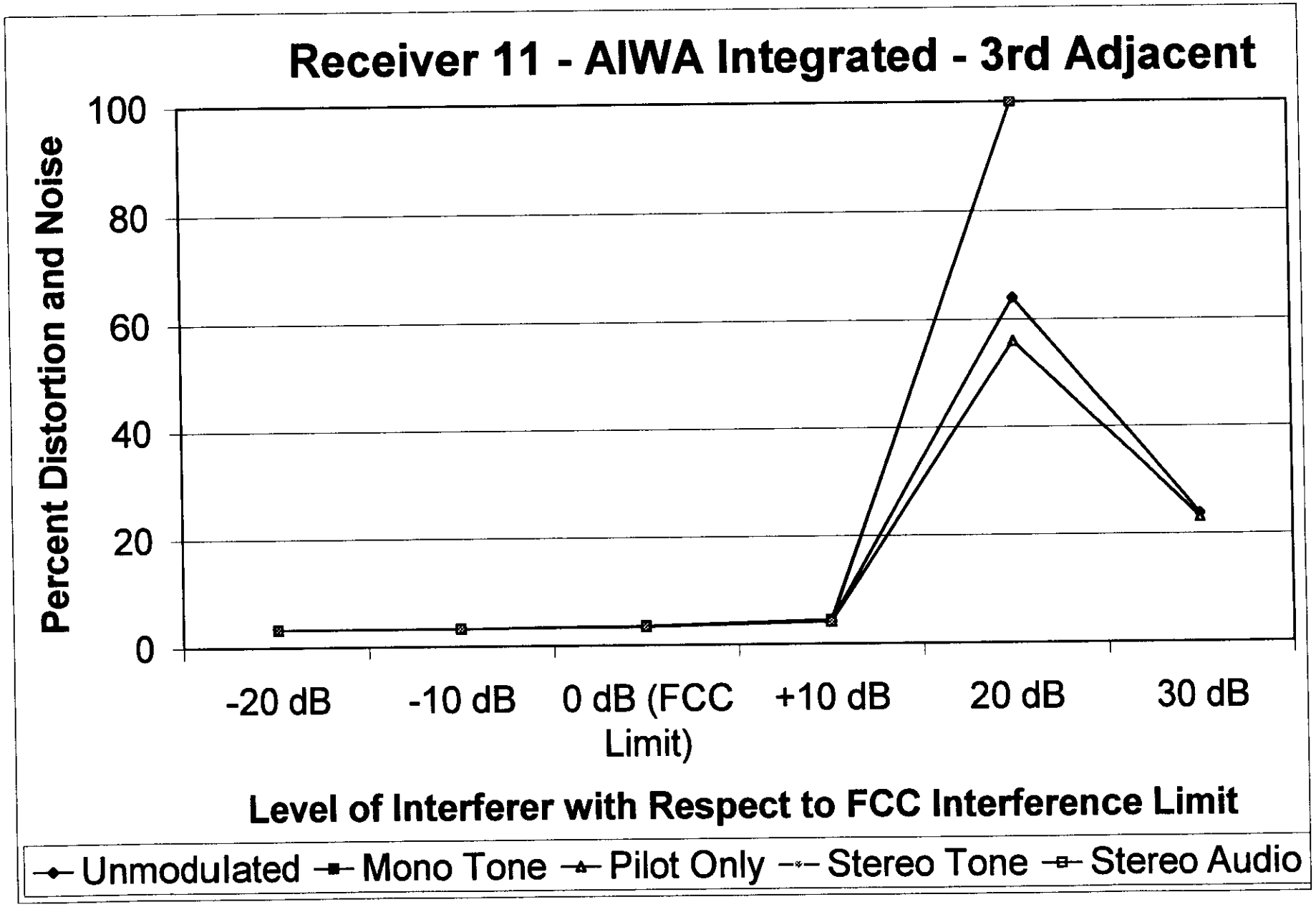

Receiver 7 - Sony Boombox - 2nd Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio

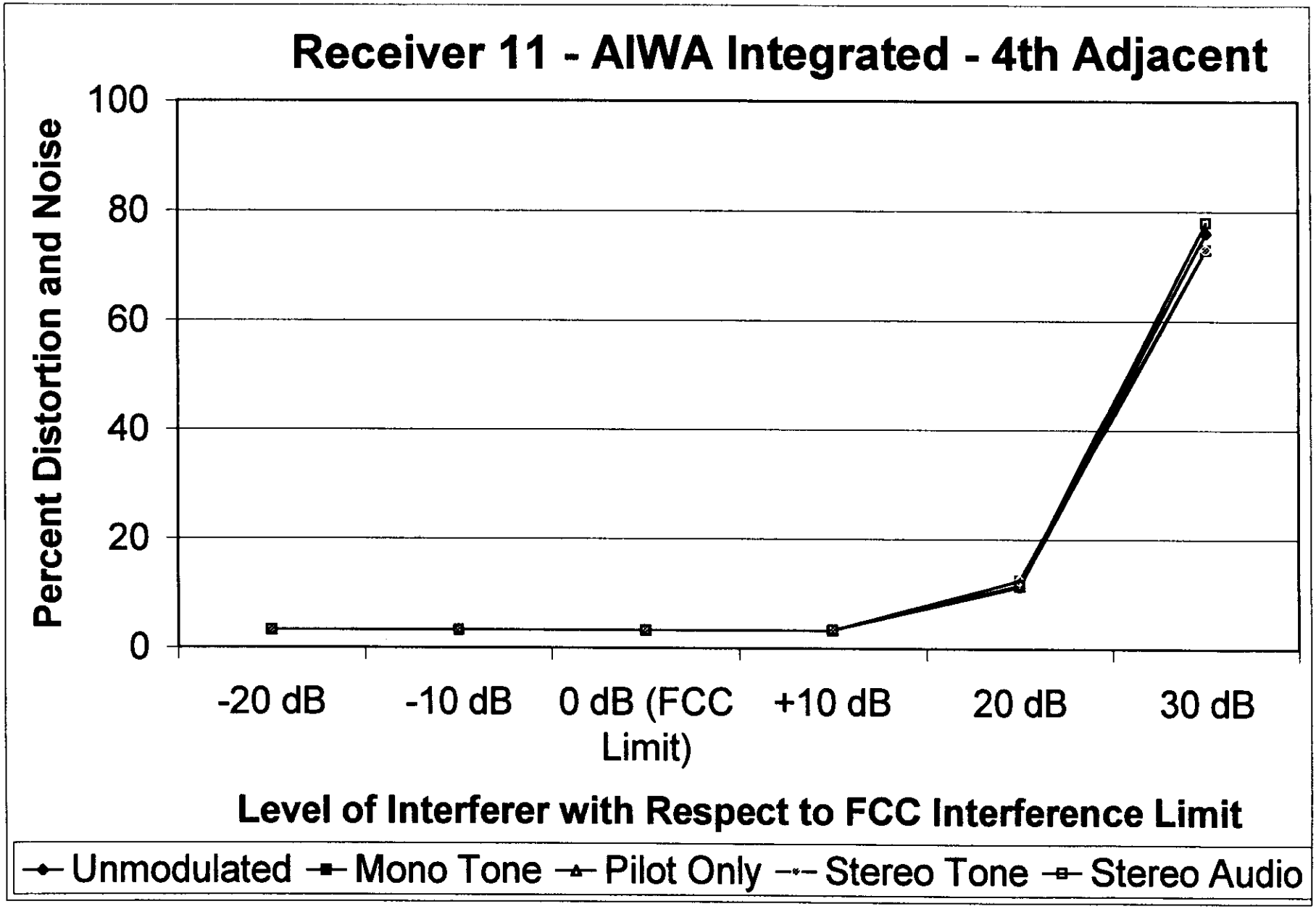

Receiver 7 - Sony Boombox - 3rd Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio


Receiver 11 - AIWA Integrated - Co Channel
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio


Receiver 11 - AIWA Integrated - 1st Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio


Receiver 11 - AIWA Integrated - 2nd Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio


Receiver 11 - AIWA Integrated - 3rd Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio


Receiver 11 - AIWA Integrated - 4th Adjacent
Percent Distortion and Noise
100
80
60
40
20
0
-20 dB
-10 dB
0 dB (FCC Limit)
+10 dB
20 dB
30 dB
Level of Interferer with Respect to FCC Interference Limit
Unmodulated
Mono Tone
Pilot Only
Stereo Tone
Stereo Audio