

Appendix 3 - Cisco SX20 - Detailed Audio Tests

The SX20 Plus CODECs do not permit the audio protocols to be forced, hence we were only able to carry out detailed tests on G.722.1 and AAC-LD audio coding.

Test 1: Frequency response (-3 dB)

(Insert -6 dB signal at local site, measure at remote site)

G.722.1	AAC-LD, 64K	AAC-LD, 128K
7.00 KHz	20.0 KHz	20.0 KHz

Test 2: Headroom (measured on AAC-LD signal coding)

Insert increasing amplitude 1 KHz tone at local site, monitor for overload distortion at remote site

Overload occurs at: +12dBm

Test 3: Audio level

(Insert -6dBm 1KHz tone at local site, monitor received level at remote site.)

As the audio output level is affected by the volume control this test was not carried out.

Test 4: Echo Cancellation

Setup The echo canceller is fully automatic in operation. The quality of echo cancellation and doubletalk from the system was excellent.

	<u>Lecture Theatre</u>	<u>Room</u>
Audio levels adequate? (Yes/no)	Not tested	Yes
Audio quality acceptable? (Yes/no)	Not tested	Yes

Echo cancellation acceptable? (Yes/no) Not tested Yes

Quality of double talk Not tested Excellent

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