

# HD100

## Gain and Output curves

For the Three Presets

(on 2cc and 711/Ear Simulator couplers)

## ANSI measurements

(on 2cc coupler)

JUNE 2015

[www.soundworldsolutions.com](http://www.soundworldsolutions.com)

The HD-100 has three Presets,

Each Preset has three user-selectable Environmental Modes:

Everyday (Omni Microphone)

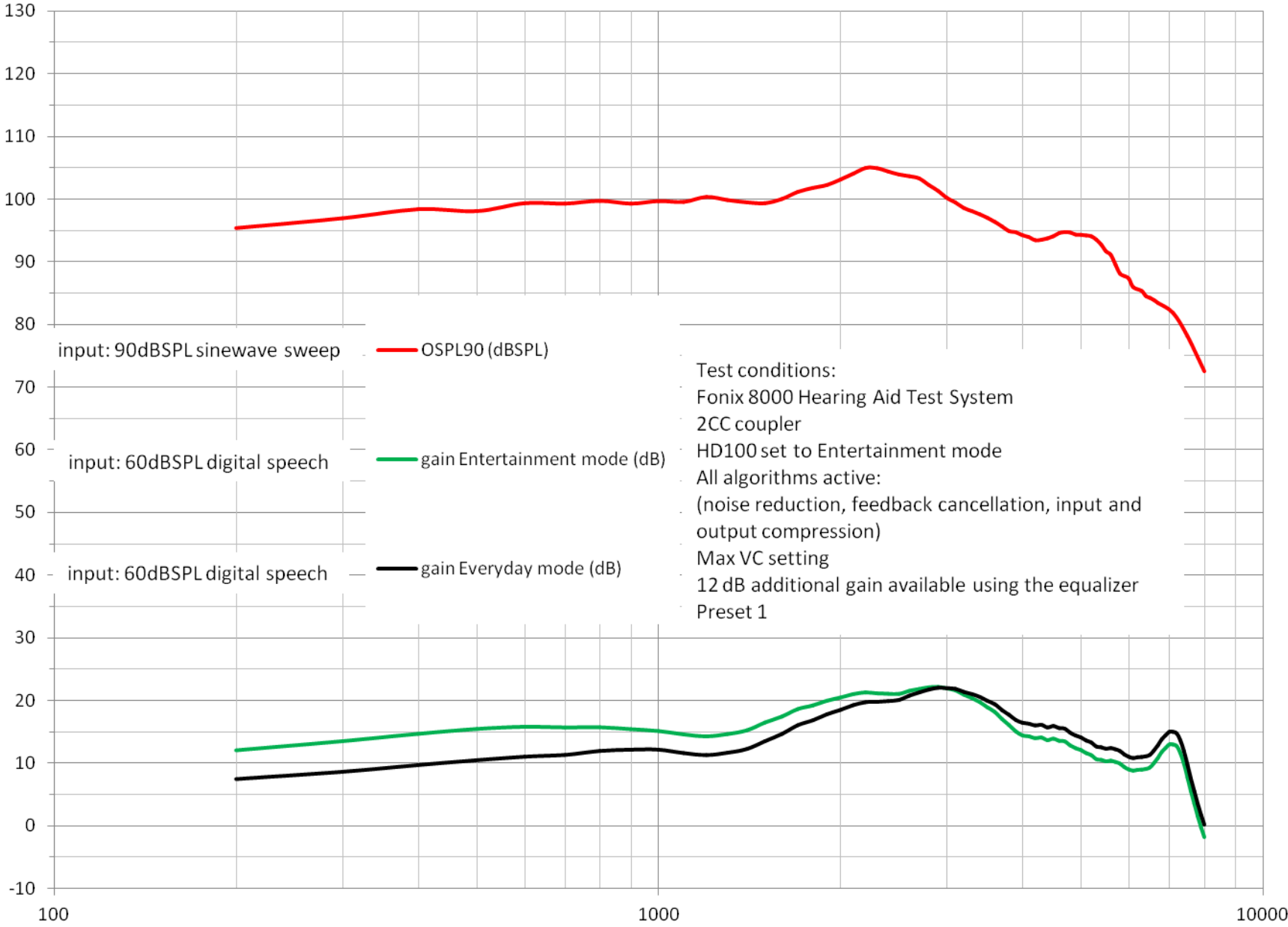
Restaurant (Similar response as Everyday Mode but with partially equalized Directional Microphone)

Entertainment (Omni Microphone plus increased low frequencies and minimal Noise Reduction)

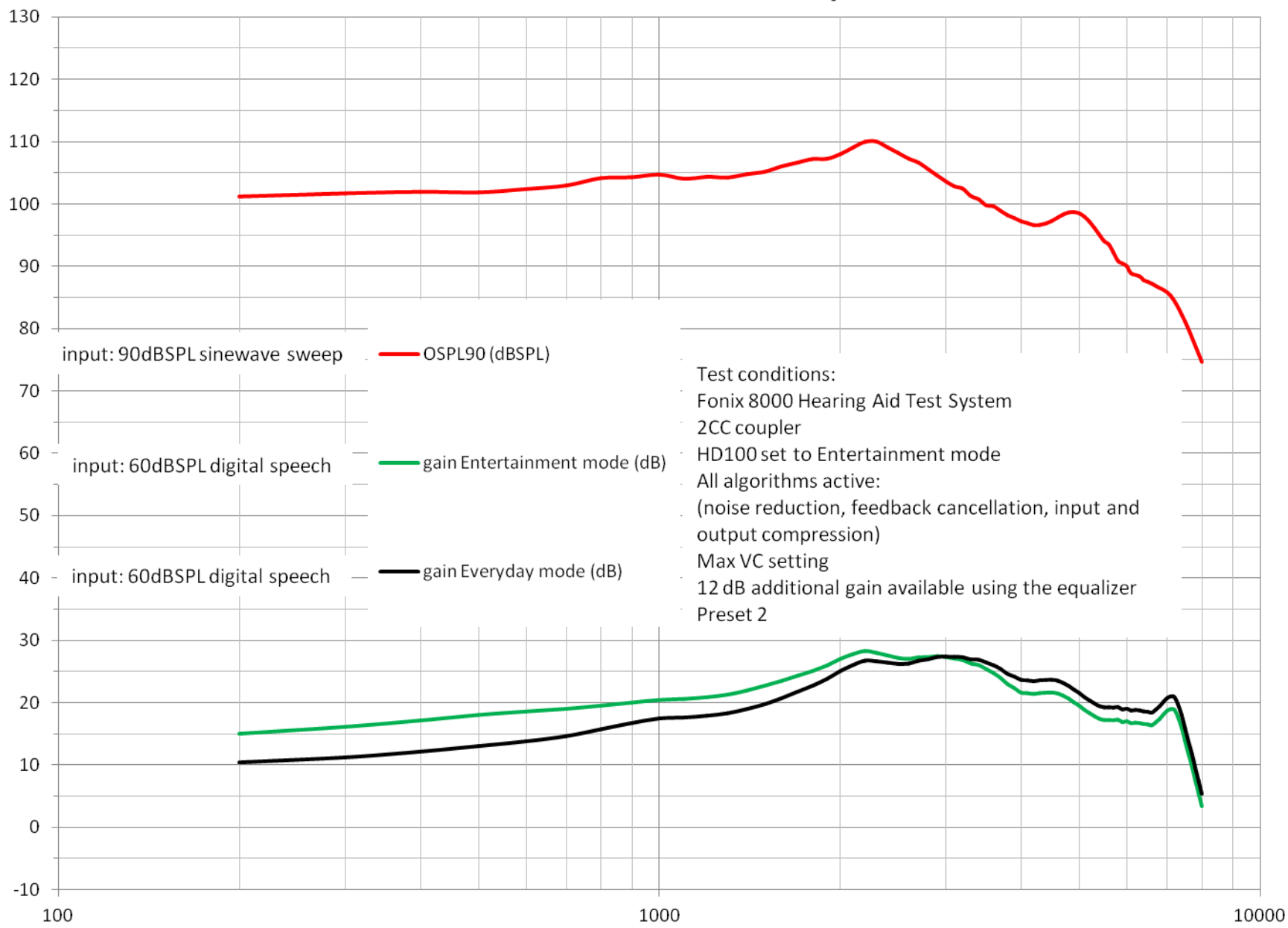
	Preset 1						Preset 2						Preset 3					
Environmental mode	MPO		Everday		Entertainment		MPO		Everday		Entertainment		MPO		Everday		Entertainment	
test type	MPO	MPO	Gain	Gain	Gain	Gain	MPO	MPO	Gain	Gain	Gain	Gain	MPO	MPO	Gain	Gain	Gain	Gain
VC setting	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX
coupler	2cc	Ear Simulator	2cc	Ear Simulator	2cc	Ear Simulator	2cc	Ear Simulator	2cc	Ear Simulator	2cc	Ear Simulator	2cc	Ear Simulator	2cc	Ear Simulator	2cc	Ear Simulator
input level	90.0	90.0	60.0	60.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0	90.0	90.0	60.0	60.0	60.0	60.0
input type	sine	sine	dig speech	dig speech	dig speech	dig speech	sine	sine	dig speech	dig speech	dig speech	dig speech	sine	sine	dig speech	dig speech	dig speech	dig speech
FRYE data smoothing	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no
FRYE test	ANSI 03	ANSI 03	multicurve	multicurve	multicurve	multicurve	ANSI 03	ANSI 03	multicurve	multicurve	multicurve	multicurve	ANSI 03	ANSI 03	multicurve	multicurve	multicurve	multicurve
PEAK	105.0	113.5	22.0	32.2	22.2	32.1	110.0	118.6	27.3	37.8	28.3	37.5	117.5	125.8	39.0	48.9	40.4	49.1
HFA	101.2	108.2	15.6	22.6	17.9	24.9	106.3	113.3	21.4	28.4	23.7	30.7	110.9	117.9	35.3	42.2	37.5	44.5

The following gain and output curves were taken in Everyday and Entertainment mode for all three Presets.

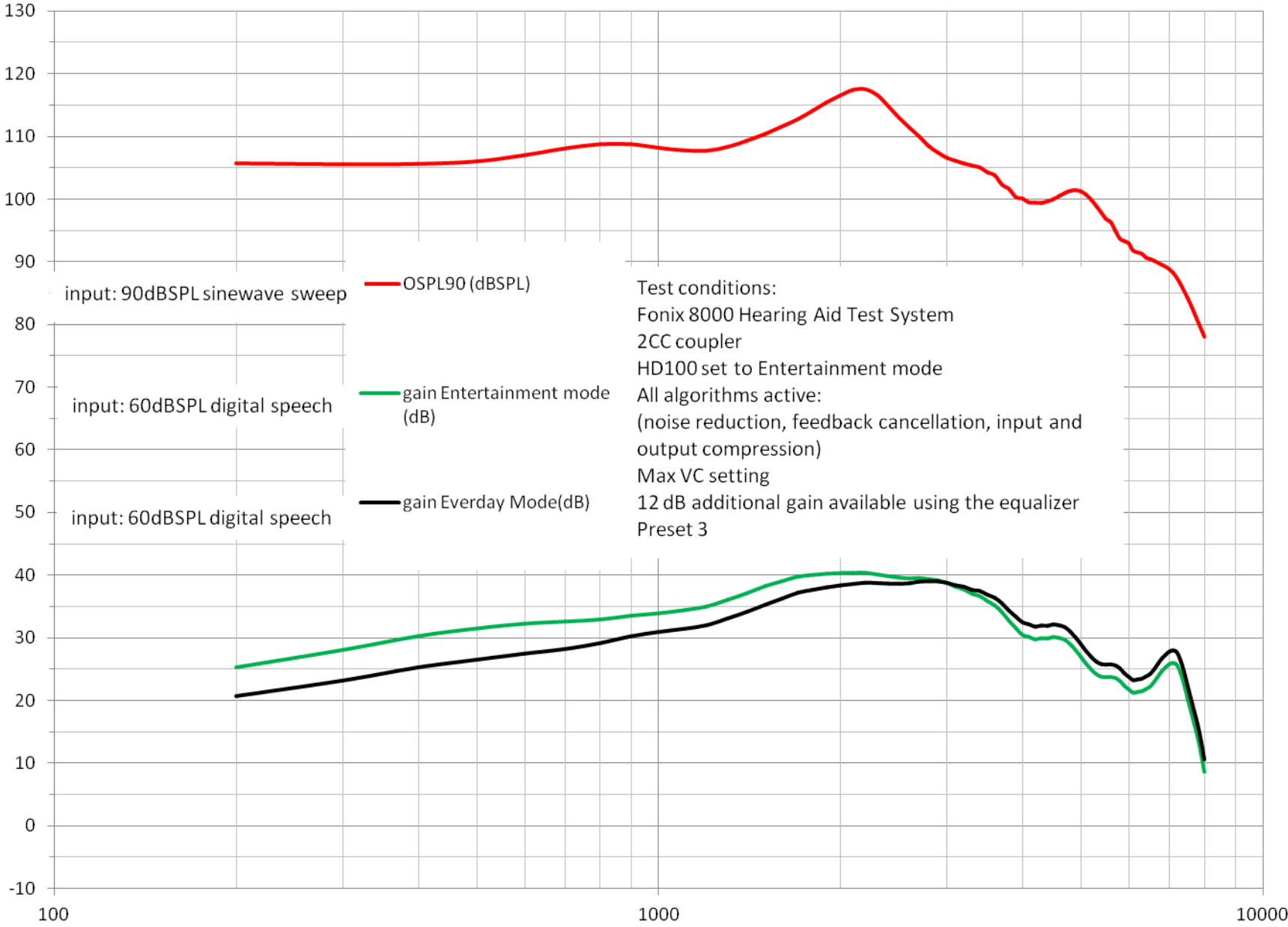
# HD 100 - Preset 1 - 2cc coupler



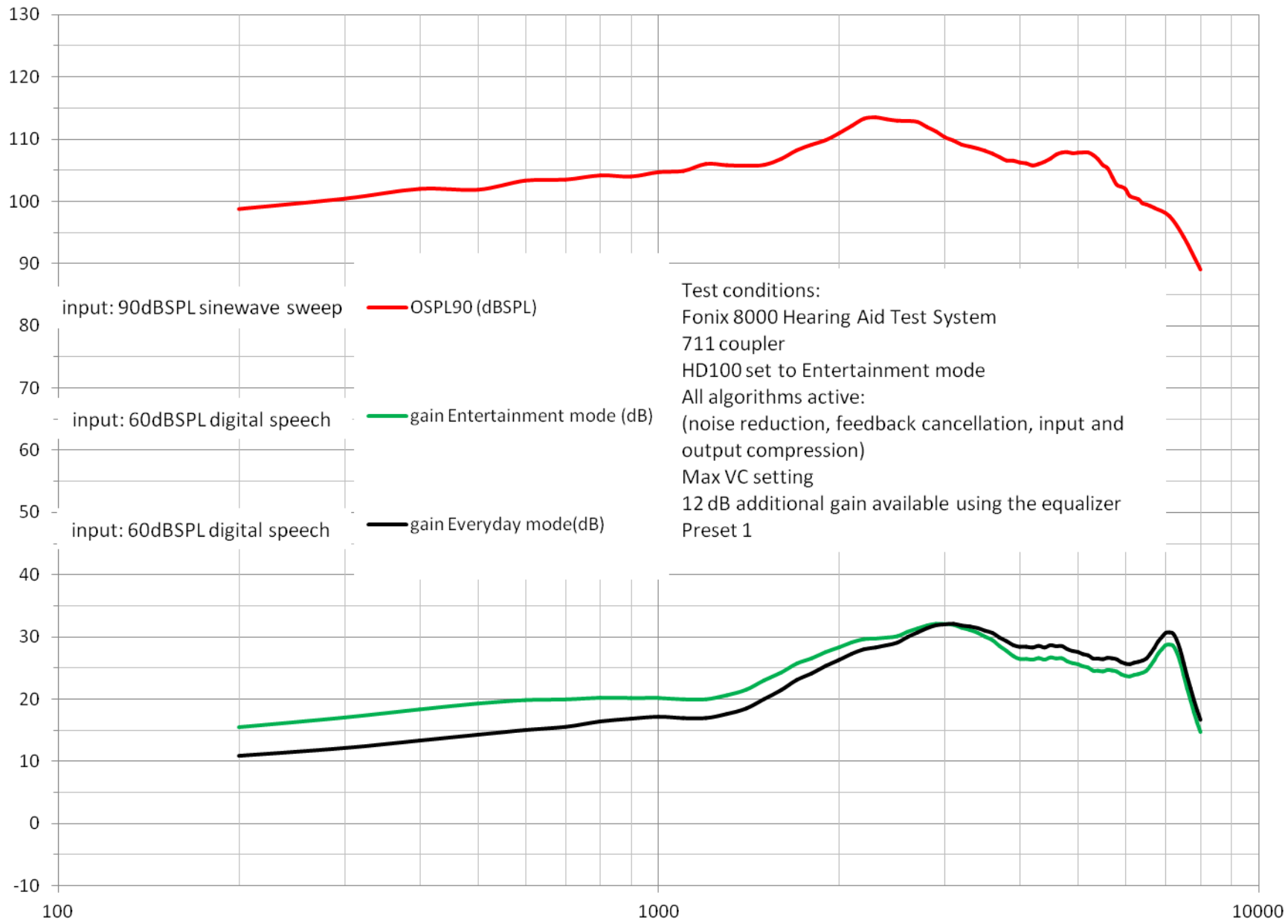
# HD 100 - Preset 2 - 2cc coupler



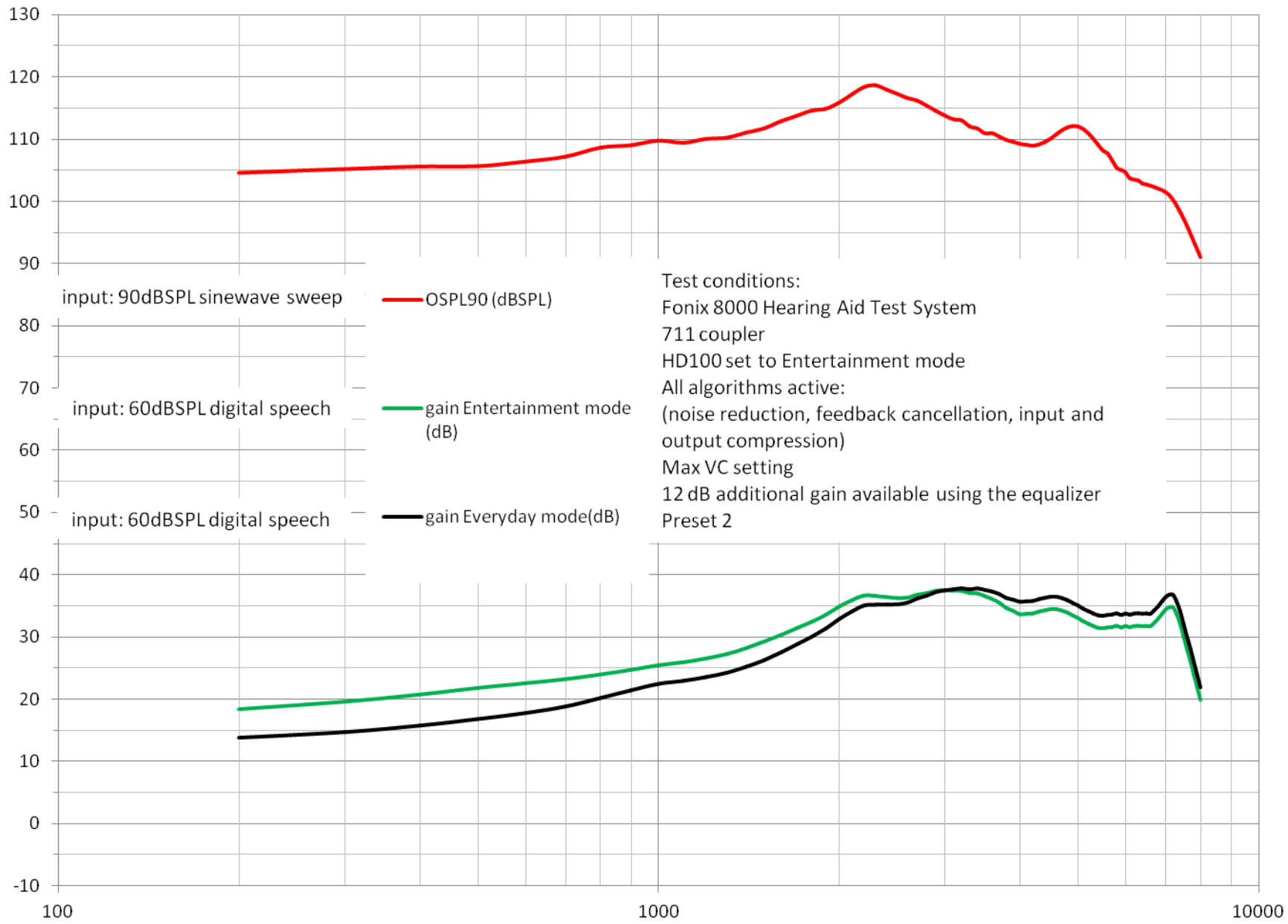
# HD 100 - Preset 3 - 2cc coupler



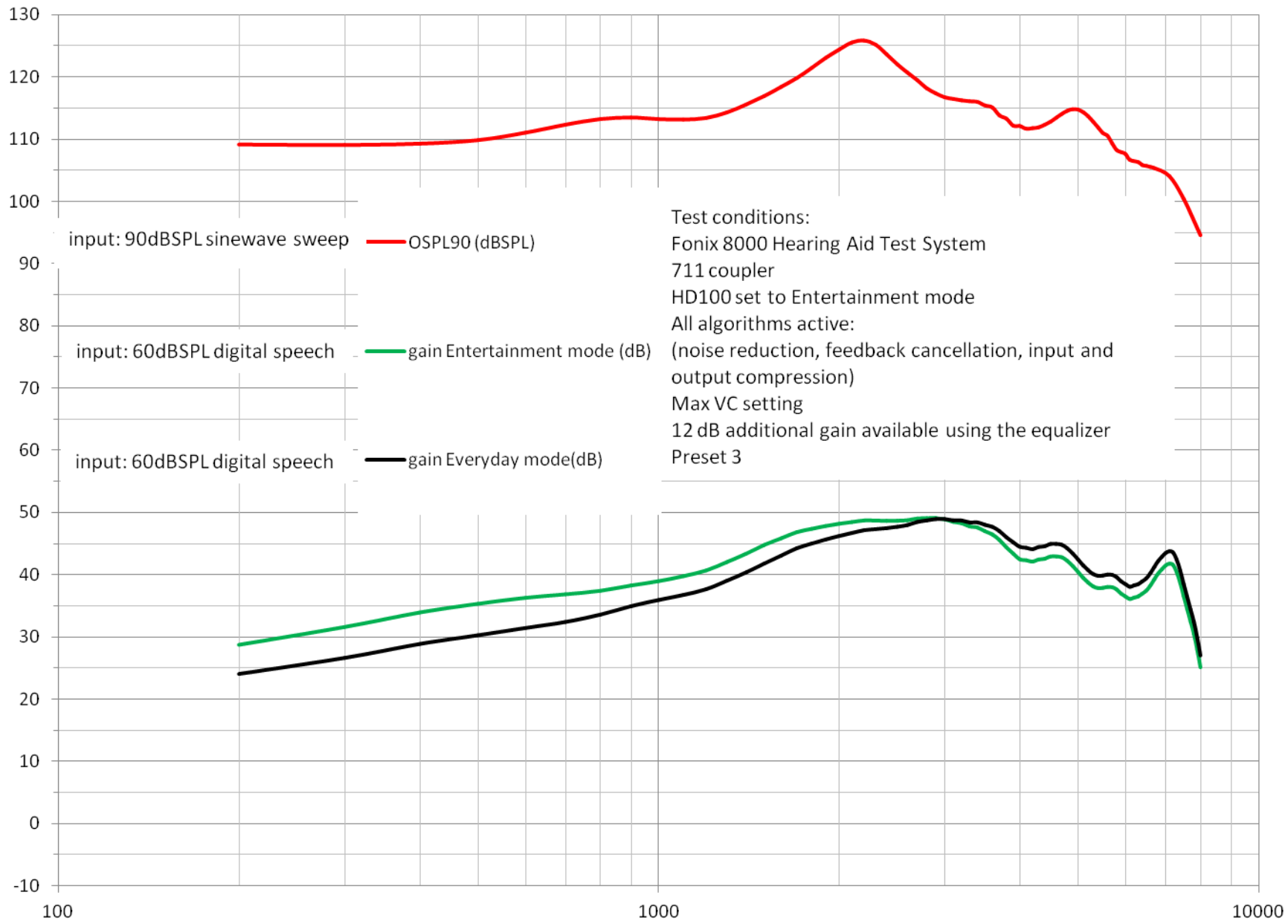
# HD 100 - Preset 1 - 711 coupler



# HD 100 - Preset 2 - 711 coupler

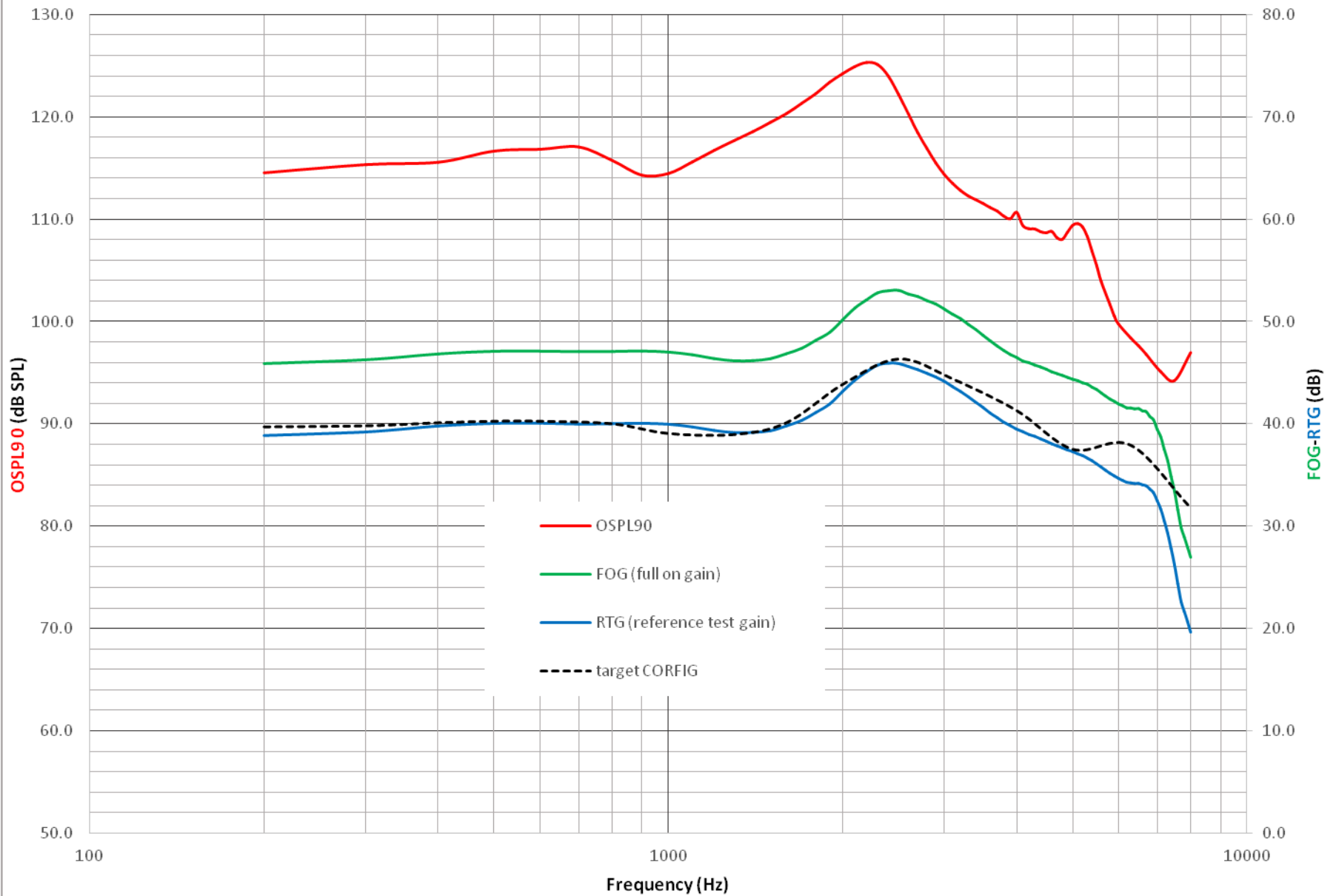


# HD 100 - Preset 3 - 711 coupler





ANSI curves: HD100 in 2cc coupler



**HD100 ANSI (2003) SPECIFICATION****2cc Coupler**

Conditions: Directional microphone disabled, Noise reduction and feedback cancellation disabled, Input compression disabled, Output compression set to maximum output level. **Equalizer set to 0dB.**

**Equalizer can provide 12dB of additional Reserve Gain.**

RTG (60) (reference test gain) (dB)	PEAK	45.9
	HFA	41.9
FOG (50) (full on gain) (dB)	PEAK	53.1
	HFA	48.9
OSPL90 (dB SPL)	PEAK	125.3
	HFA	119.0
Total Harmonic Distortion (THD)		
% @input = (70 dB SPL)	500 Hz	0.9
(70 dB SPL)	800 Hz	1.0
(65 dB SPL)	1600 Hz	0.1
EIN (equivalent input noise)	(dB SPL)	26.0
Frequency range (Hz)	Min	<200
	Max	7736

**For the 711/ Ear Simulator Coupler :**

OSPL90 PEAK = 133.5dB SPL

FOG Peak = 62.3dB

**Gain numbers do not include the 12dB available Reserve Gain**