



MAGICO A3 VS. REVEL 228 BE

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TEST METHOD

- **9 listeners participated (all Harman employees)**
- **Tests performed double blind in Harman Multi-channel Lab**
- **Total of 4 trials: 2 tracks x 2 observations**
- **Speakers level-matched within 0.1 dB; playback level fixed at 80 dB (B-weighted) average**
- **Speaker and Program order randomized**
- **Speaker Position controlled via automated speaker mover**



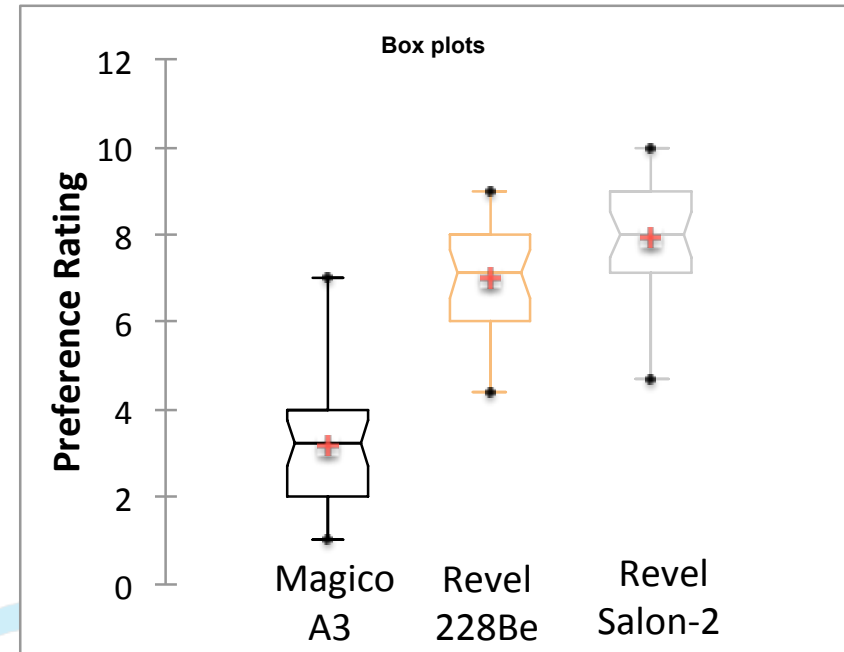
ANOVA

Source	DF	Sum of squares	Mean squares	F	Pr > F	Adj. Pr>F G-G	Adj. Pr>F H-F
Loudspeaker	2	239.771	119.886	74.364	< 0.0001	< 0.0001	< 0.0001
Program	3	1.765	0.588	0.527	0.667		
Program * Loudspeaker	6	20.468	3.411	2.116	0.058	0.061	0.058
Error	64	103.177	1.612				

- A repeated measures ANOVA shows that Loudspeaker was the dominant significant effect on listener preference
- Program was not significant
- There was a very small but not statistically significant interaction between Loudspeaker * Program

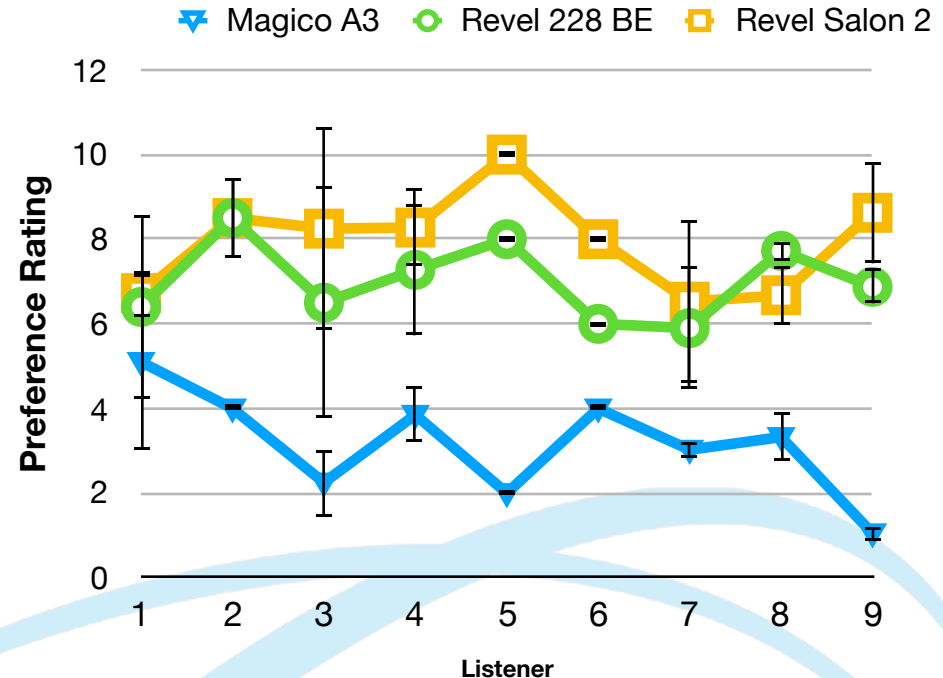
MEAN SPEAKER PREFERENCES

- **Box plot shows the distribution of ratings including mean (+), median, upper and lower quartiles and range of ratings**
- **Both Revel models were strongly preferred (> 2 preference ratings) to Magico A3**
- **Revel Salon 2 was moderately preferred (> 1 preference rating) to Revel 228 Be**
- **The differences in preference ratings among all loudspeakers were statistically significant based on Tukey HD post-hoc test at a level of 5%**

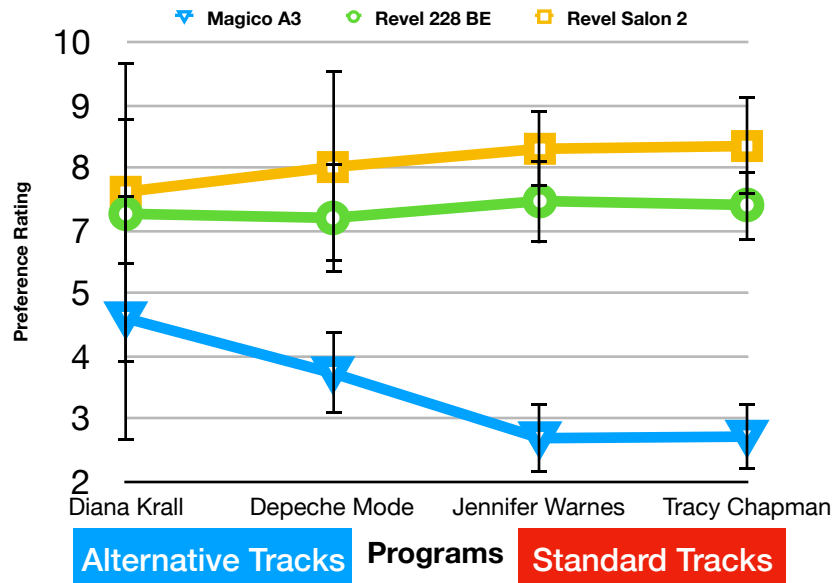


INDIVIDUAL LISTENER PREFERENCES

- All listeners rated Magico as their least favorite choice
- 7 of 9 listeners on average rated Revel Salon 2 higher than Revel 228 BE. One listener tied it with Revel 228 BE
- One listener (listener 8) preferred Revel 228 BE to Salon



ALTERNATIVE VS. STANDARD TEST TRACKS



Two listeners requested alternative test tracks (DK and DM) because they were more familiar with them and felt they could better hear and rate the differences among the speakers more accurately and reliably

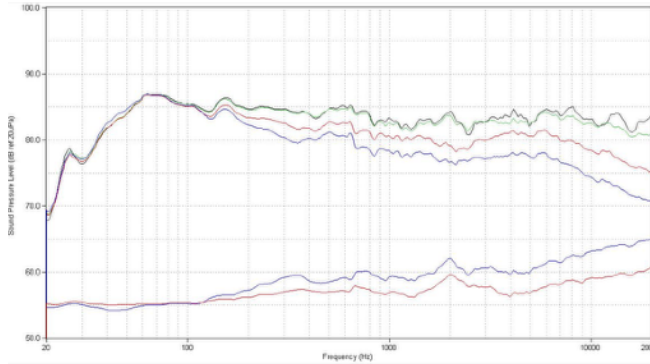
However, the results suggest the opposite effect occurred:

The alternative tracks (DK and MD) produced less discriminating and consistent ratings compared to the standard tracks with DK being the worse case.

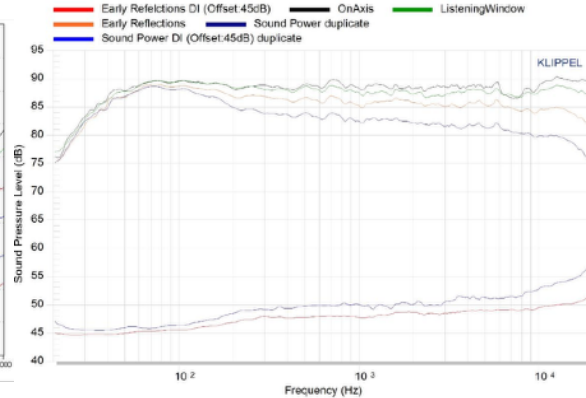
The standard tracks (JW and TC) produced higher ratings for Revel Speakers and lower ratings for Magico.

ANECHOIC MEASUREMENTS

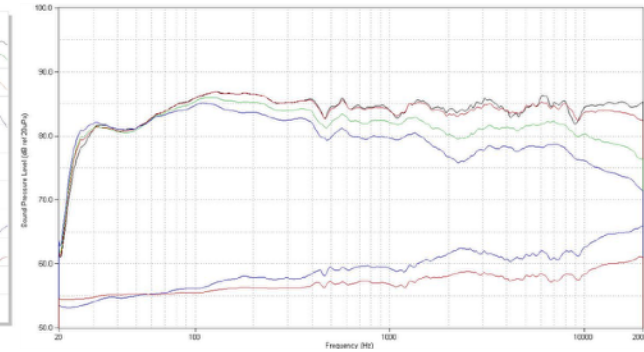
Magico A3



Revel Performa 228 BE



Revel Salon 2



The three speakers were measured in the same chamber by Mark Glazer using different measurement systems. There are errors below 100 Hz due to chamber calibration errors. Still, there are some clear differences in performance among the speakers:

1. Revel has flatter on-axis response with smoother off-axis, sound power curves and DI indices
2. Magico has some notable resonances at 150 Hz and 600 Hz. The 5-6 dB downward tilt from 80 Hz to 4 kHz makes the loudspeaker sound imbalanced as noted in listener comments: dark, tubby, muffled, colored mids.



QUESTIONS?

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