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| <ul style="list-style-type: none">▪ On a Mac<ul style="list-style-type: none">▪ Open PDF in Preview▪ Click File▪ Click Print▪ Click dropdown menu on the right “preview”▪ Click layout▪ Choose # of pages per sheet from dropdown menu▪ Checkmark Black & White if wanted. | <ul style="list-style-type: none">▪ On a PC<ul style="list-style-type: none">▪ Open PDF▪ Click Print▪ Choose # of pages per sheet from dropdown menu▪ Choose Black and White from “Color” dropdown |
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Troubleshooting the most common fitting issues with modern Beltona devices

Christopher Phoenix
Regional Training Manager

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Start with a strong foundation

- Pure Tone Air & Bone Scores
 - Don't forget to properly mask when needed!
- Pure Tone LDLs
- SRT
- MCL
- UCL (speech)
- Word Discrimination
 - Both monaural and binaural
- QuickSIN
- Verification/Validation

Pure Tone Air & Bone Scores

- Used to calculate gain

Pure Tone LDLs

- Used to set MPO

SRT

- Used to verify results of pure tone testing

MCL

- Used for ensuring proscribed targets are in line with preferences

UCL

- Used for ensuring targets are not too high for comfort

Monaural/Binaural Discrimination

- Used to predict success in fitting and to determine one aid or two

QuickSIN

- Used to determine need for therapies and features

Validation/Verification

- Used to ensure unique ear anatomy is taken into account and aids are functioning the way we think they are

*Why do we
bother?*



 **Belmont
UNIVERSITY**

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Occlusion *Friend or Foe?*

There are two types of occlusion:

- Shell occlusion



- Amplifier occlusion



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How do I select the correct dome or vent for my patient?

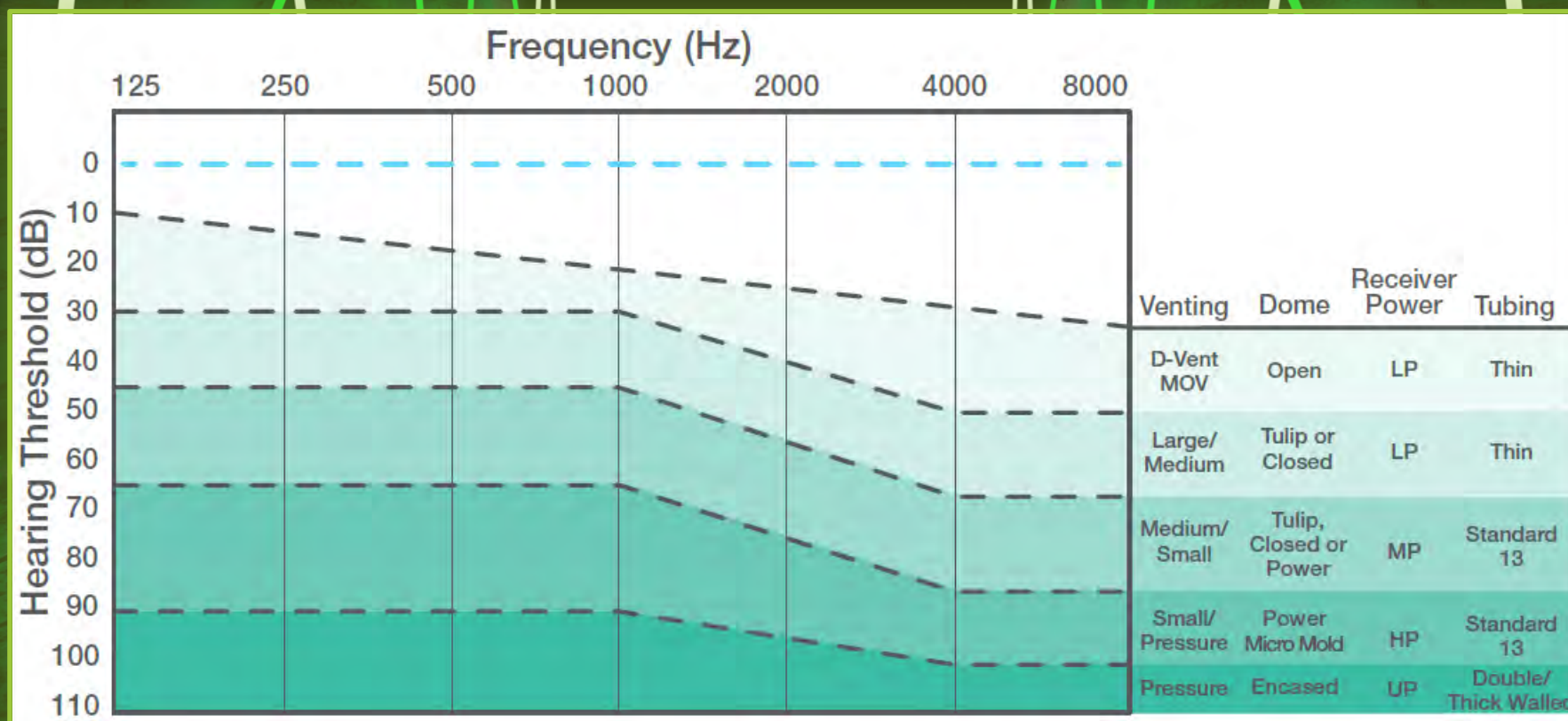
Acoustic Properties

- The same dome will vary in how it affects different ears
- Choosing a tip which is too small can increase leakage
- Choosing a tip which is too large can also increase leakage

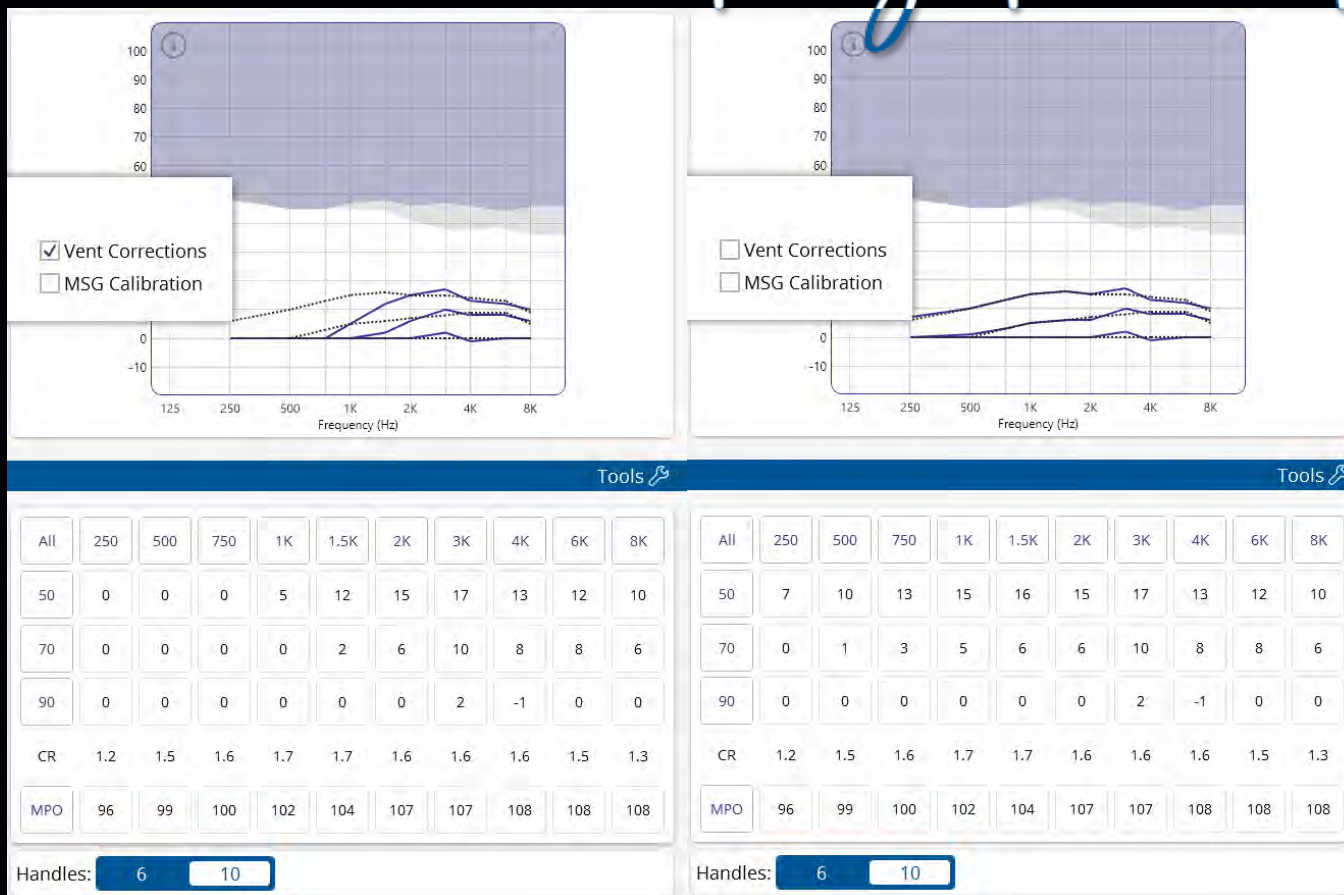
Dome Occlusion

- Instant fit domes/tips seal the ear less effectively than custom molds
- Problem for flatter losses and more severe hearing loss requiring more low frequency amplification
- Difficult to overcome the effect of venting

Shell occlusion



Why don't the gain and targets match?



Setting *the lows*

Not
enough
lows

Just right!

Too
many
lows

Negative gain values

- Helps with occlusion for any type of fitting
- With a CROS fitting
 - Good ear could still have too much occlusion even with an open dome
 - Hearing aid microphones are on

All	250	500	750	1K	1.5K	2K	3K	4K	6K	8K
50	-10	-10	-10	-5	1	4	3	-1	0	0
70	-10	-10	-10	-10	-4	0	2	-1	0	0
90	-10	-10	-10	-10	-4	0	2	-1	0	0
CR	1	1.1	1.1	1.2	1.2	1.1	1	1	1	1
MPO	96	98	99	99	101	102	102	102	102	103

Target rules

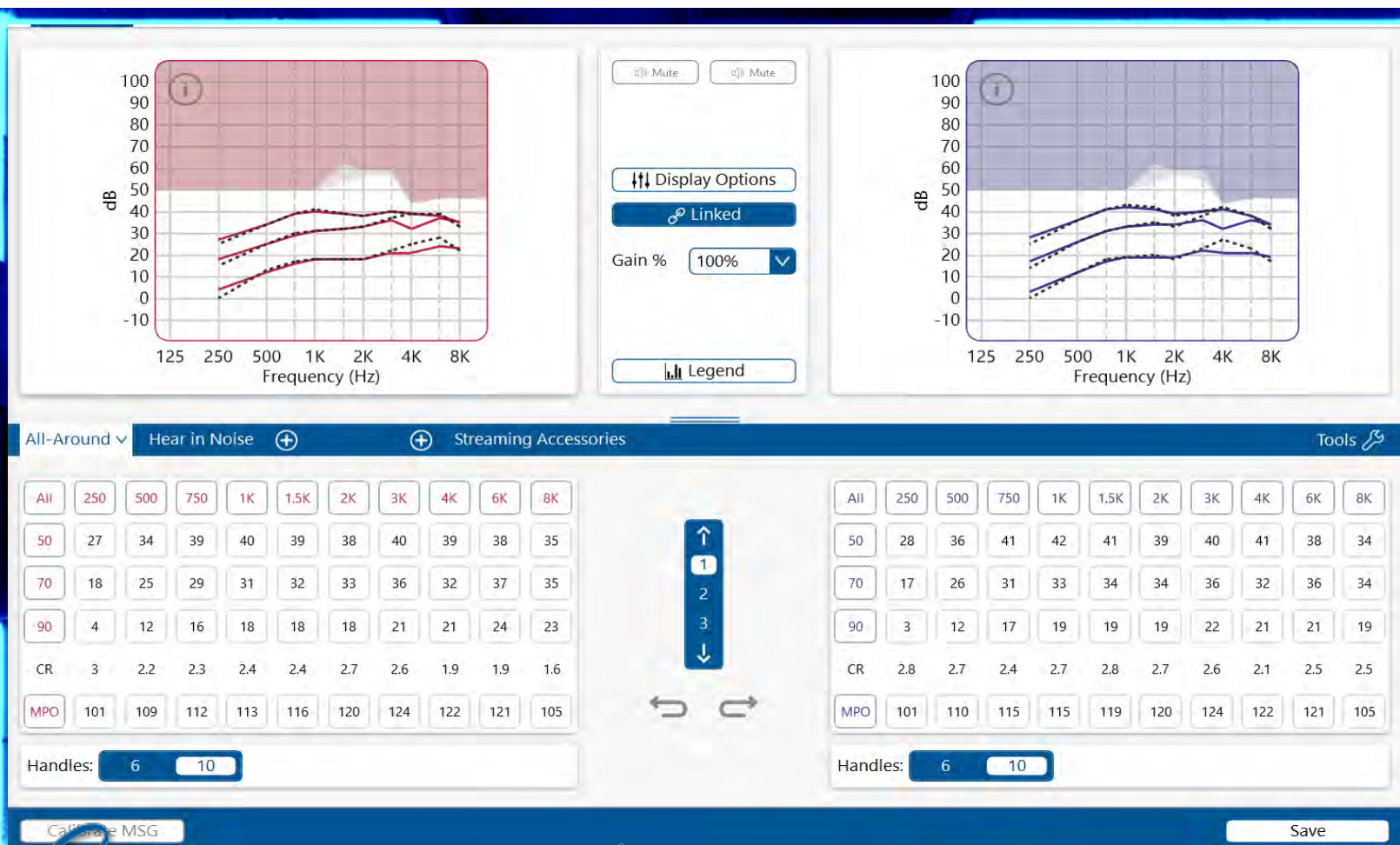
- First Time User Onboarding
- First Time User
- Experienced
 - Full-time, Non-Linear
- Experienced
 - Full time, Linear



First time user *Onboarding*



First time user





Sure Fit 3 *Receivers*



LP



MP



HP

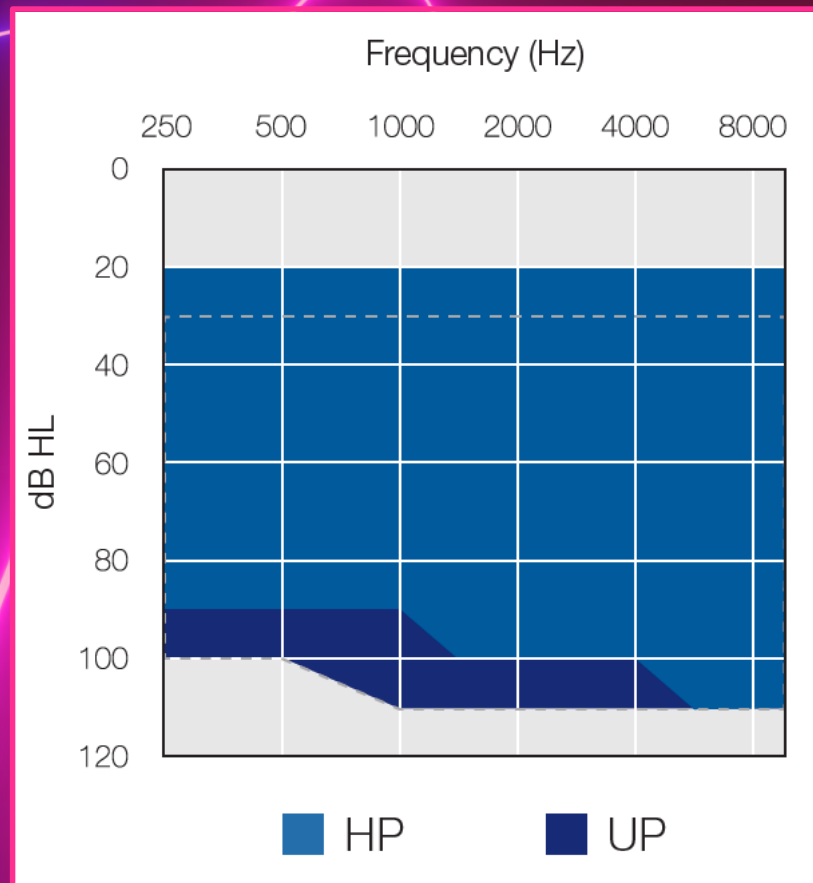
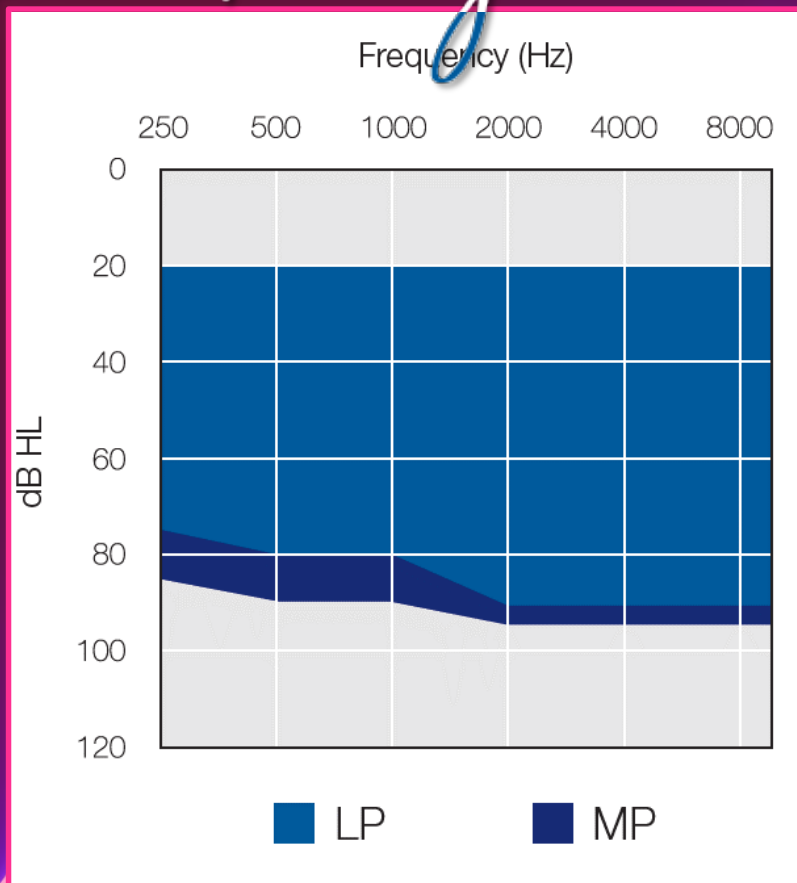


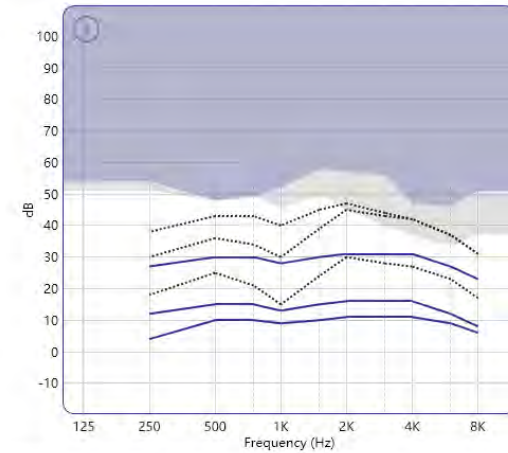
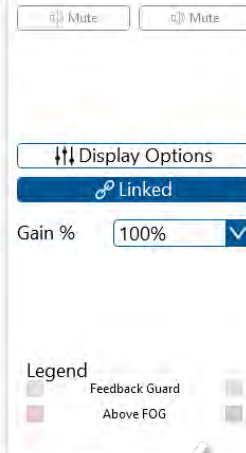
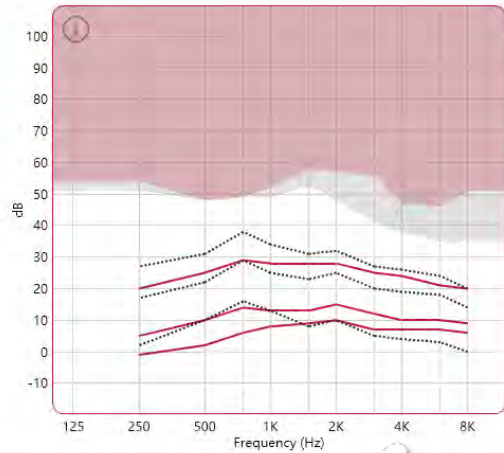
UP

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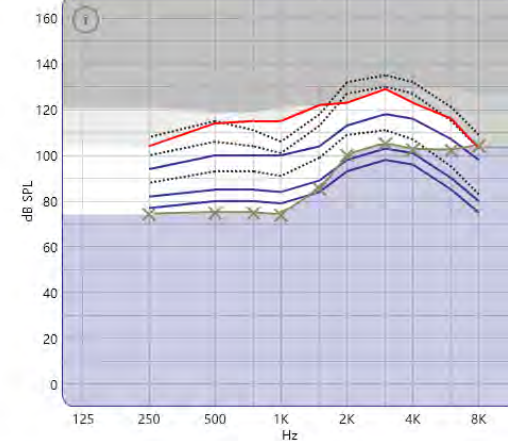
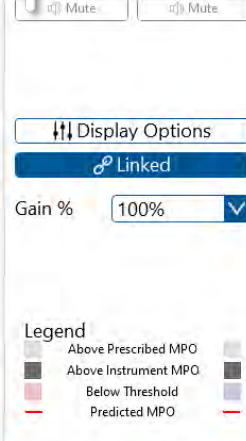
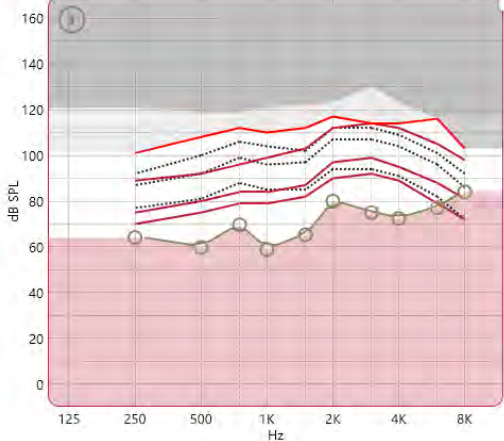
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Fitting Range



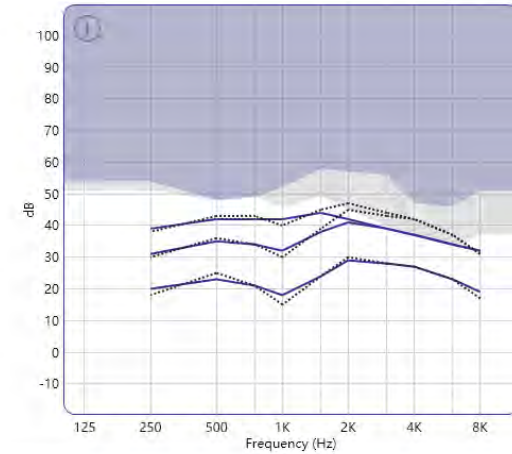
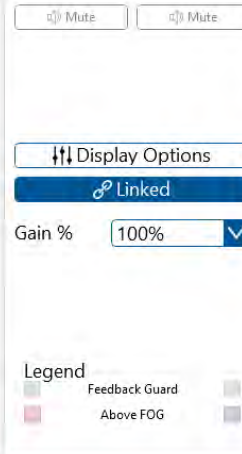
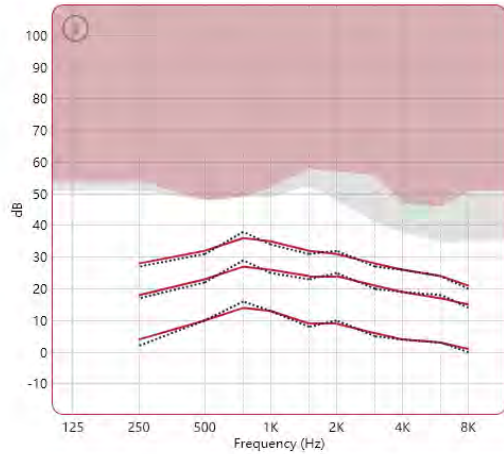


Use your *Output View* when in doubt

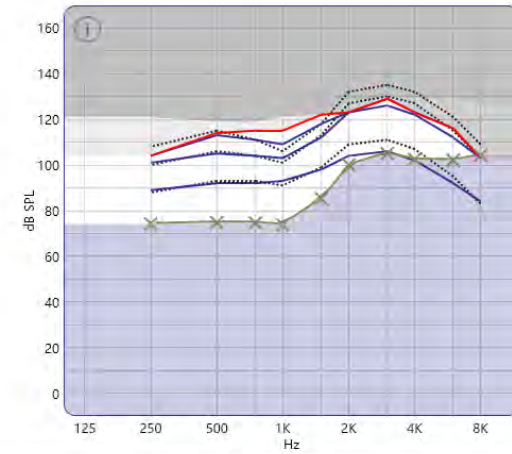
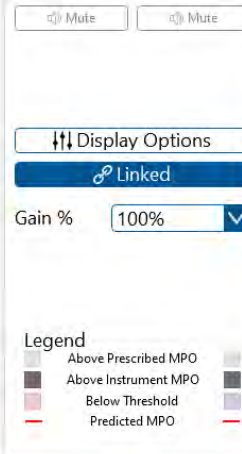
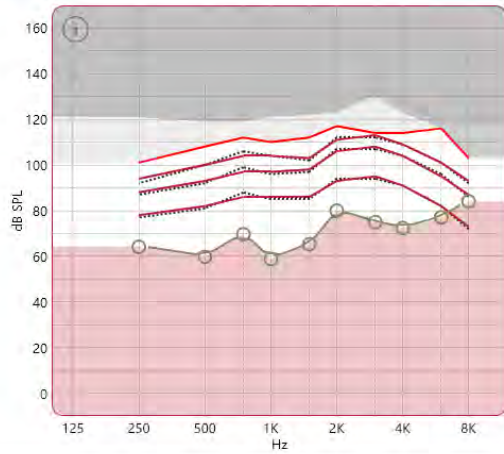


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Use your *Output View* when in doubt



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Microphone & Receiver In Ear

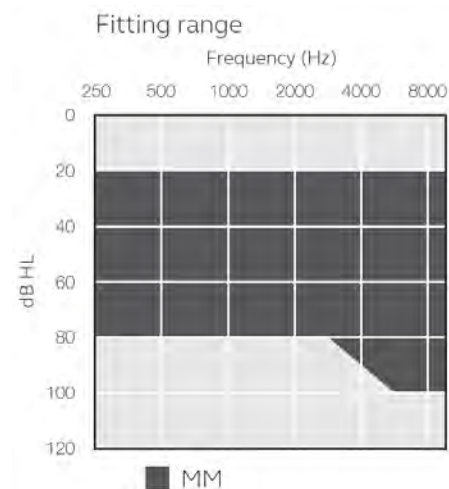


Abbreviations

- M&RIE (pronounced “Marie”)
- MM (Beltone Solus Max)

Available Options

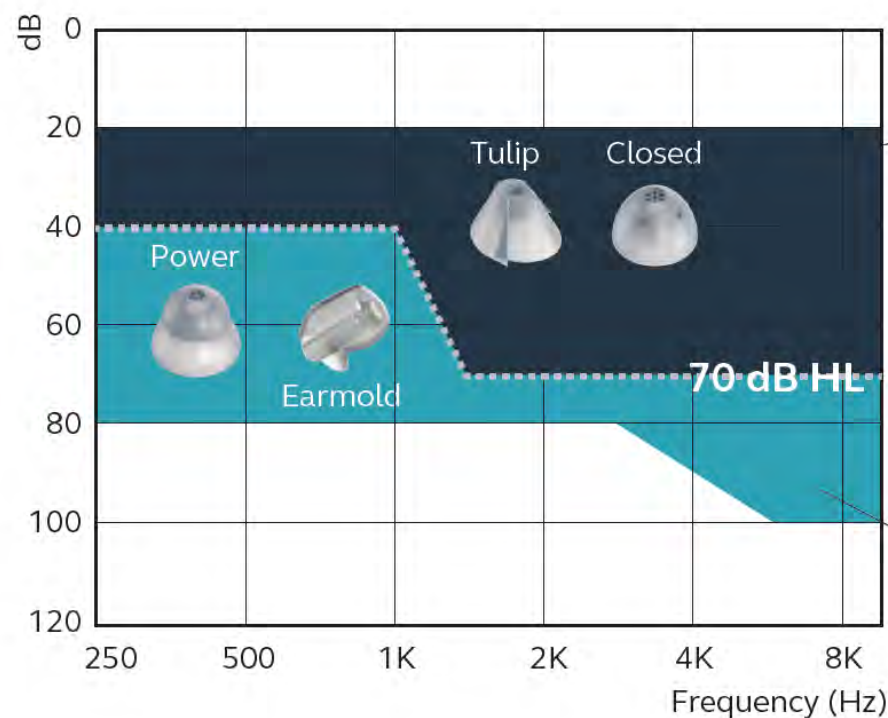
- Single gain option: 53 dB
- Lengths 0 - 4



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Selecting the best dome

M&RIE



Best results are obtained with Closed or Tulip dome



Tulip and Closed domes are rated equally good and provide the same degree of occlusion



Tulip and Closed domes increase available stable gain by approximately 3 dB relative to the Open dome



Power domes and earmolds are recommended for users with hearing loss within this range

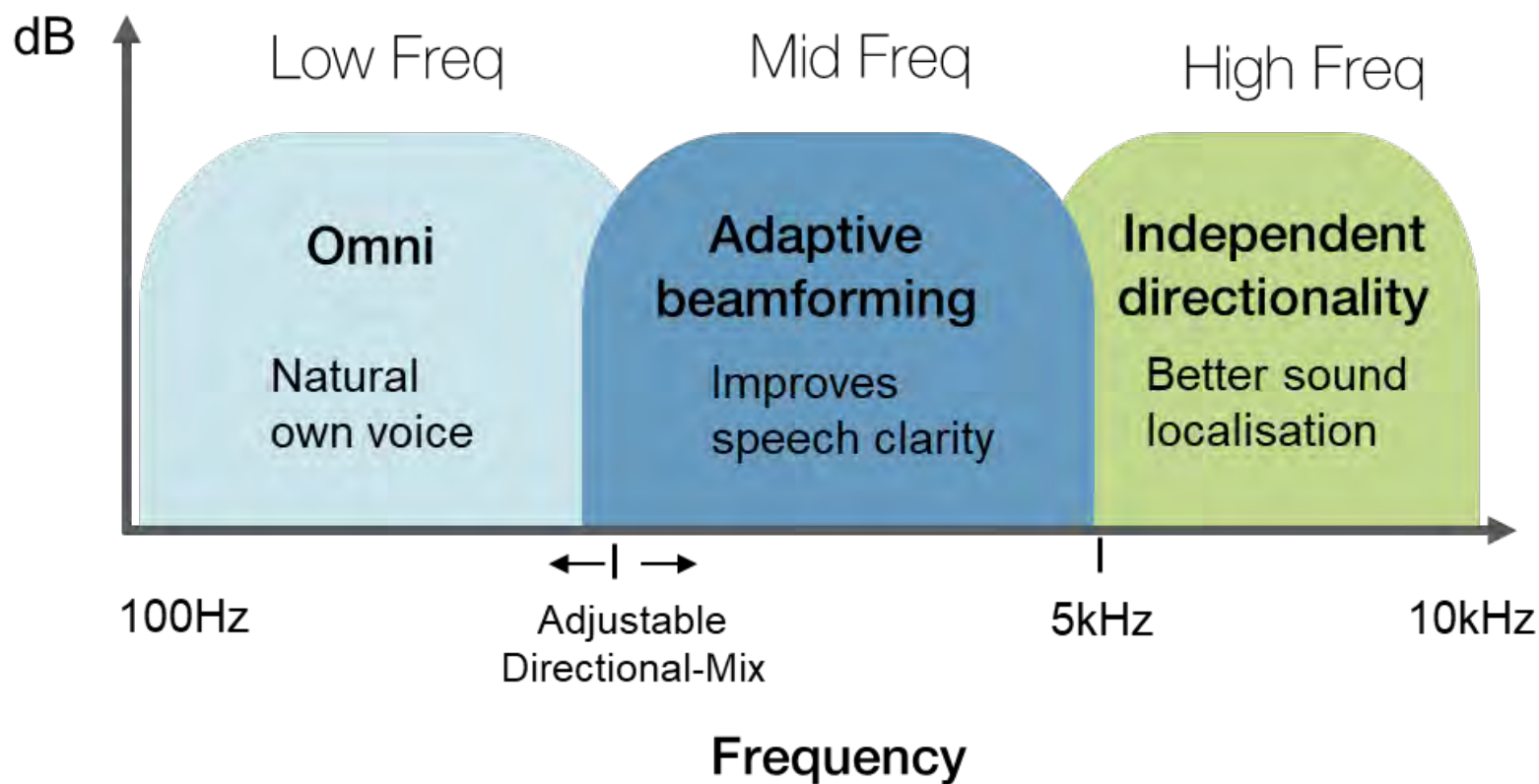


Earmolds are an excellent option for people with moderate-to-severe hearing loss

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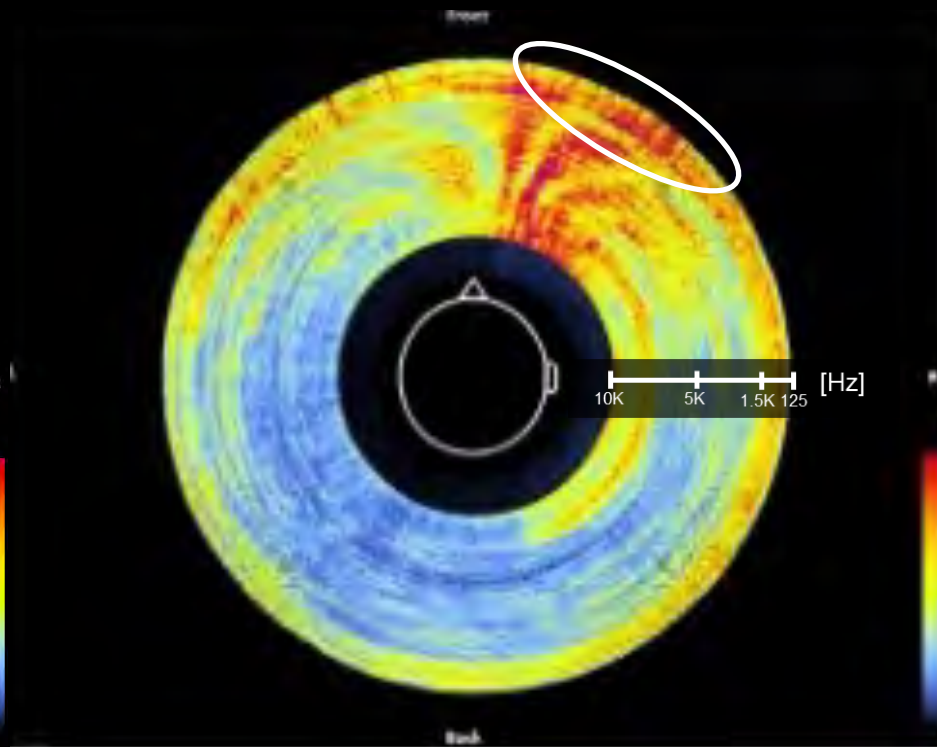
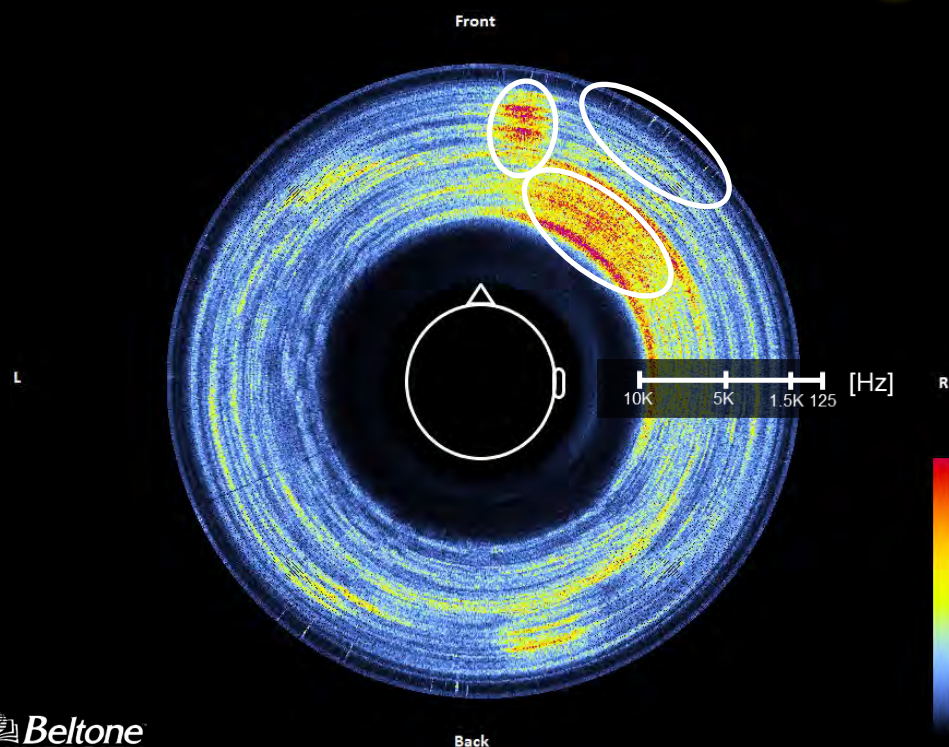
Directionality



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Bandsplit

Directionality



Mixing point options

The screenshot displays the Beltone hearing aid software interface. At the top, there is a navigation bar with tabs: "All-Around", "Hear in Noise", "Streaming Accessories", and "Tools". Below this, the interface is divided into several sections. The "Directionality" section features two identical sliders, both set to "CrossLink Directionality 4". The "Time Constants" section has two sliders, both set to "Syllabic". The "Sound Shifter" section has two sliders, both set to "Off". The "Mixing Point Frequency" section is highlighted with a pink box and contains a single slider set to "Moderate (3.5K)".

Navigation: All-Around ▾ | Hear in Noise + | Streaming Accessories + | Tools ⚙

Directionality: CrossLink Directionality 4 ▾ | Directionality | CrossLink Directionality 4 ▾

Low | Moderately Low | Medium | High

Mixing Point Frequency ⓘ

Low | Moderately Low | Medium | High

Syllabic | Normal | Moderate | Slow

Time Constants: Syllabic | Normal | Moderate | Slow

Off | Very Mild (5K) | Mild (4K) | **Moderate (3.5K)** | Strong (2.5K)

Sound Shifter ⓘ: Off | Very Mild (5K) | Mild (4K) | **Moderate (3.5K)** | Strong (2.5K)



Time constant

All-Around ▾
Hear in Noise +
Streaming Accessories +
Tools ⚙️

CrossLink Directionality 4 ▾
Directionality
CrossLink Directionality 4 ▾

Low
Moderately Low
Medium
High

Mixing Point Frequency ⓘ

Low
Moderately Low
Medium
High

Syllabic
Normal
Moderate
Slow

Time Constants

Syllabic
Normal
Moderate
Slow

Off
Very Mild (5K)
Mild (4K)
Moderate (3.5K)
Strong (2.5K)

Sound Shifter ⓘ

Off
Very Mild (5K)
Mild (4K)
Moderate (3.5K)
Strong (2.5K)

Conclusions and take aways

- Our field is built on science **but is perfected in the art**
- To improve the quality of streaming, **we can occlude more with Negative gain**
- Choosing the right receiver **can simplify your process**
- Changing the Mixing Point **can help your fitting but...**
- Occlusion, when properly used **is our friend, not our enemy**
- Fitting profiles can simplify acceptance **but have to be managed**
- Band split processing is **powerful and sets us apart**
- Time constants are a great tool **when used sparingly**



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