



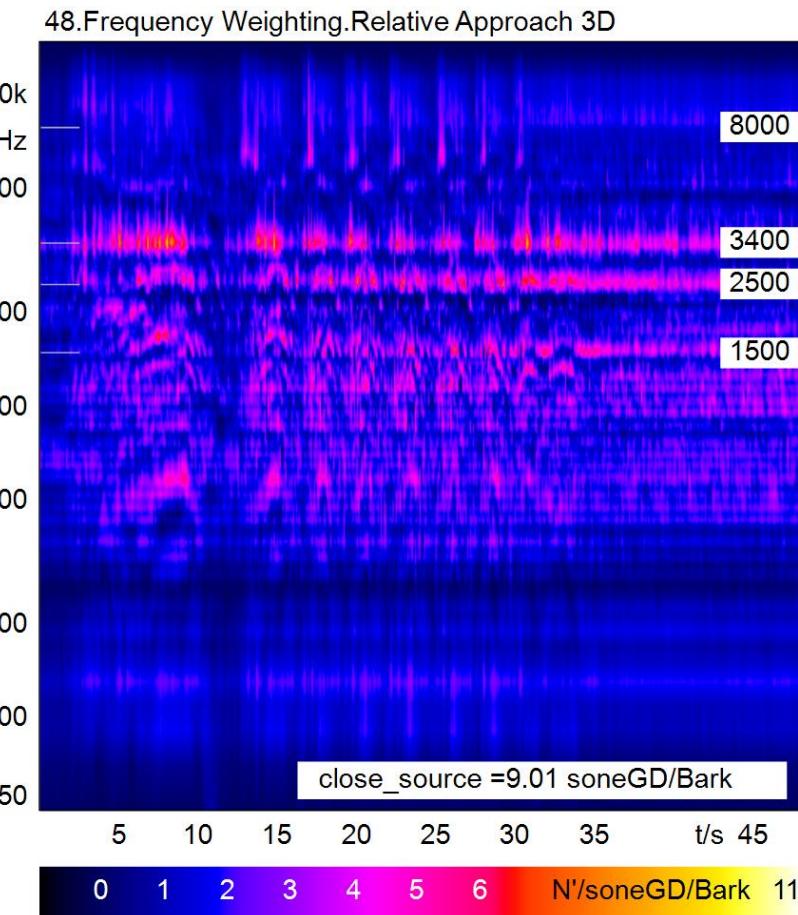
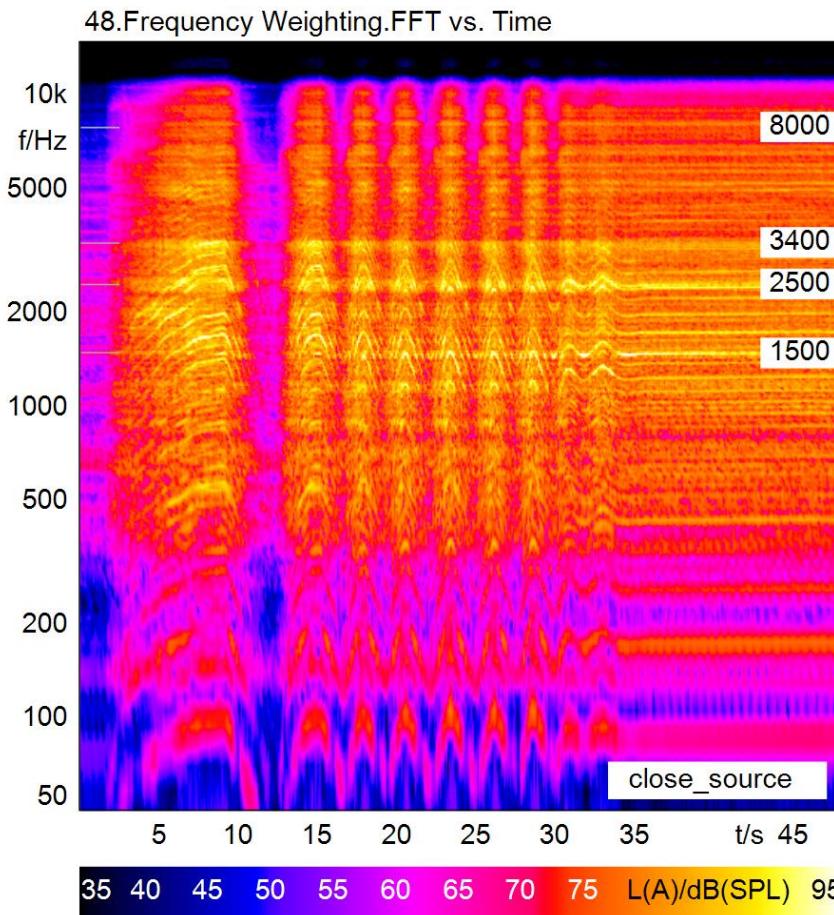
# ANALYSIS WITH ARTEMIS SUITE FOR FOTON

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Xujian.Wang

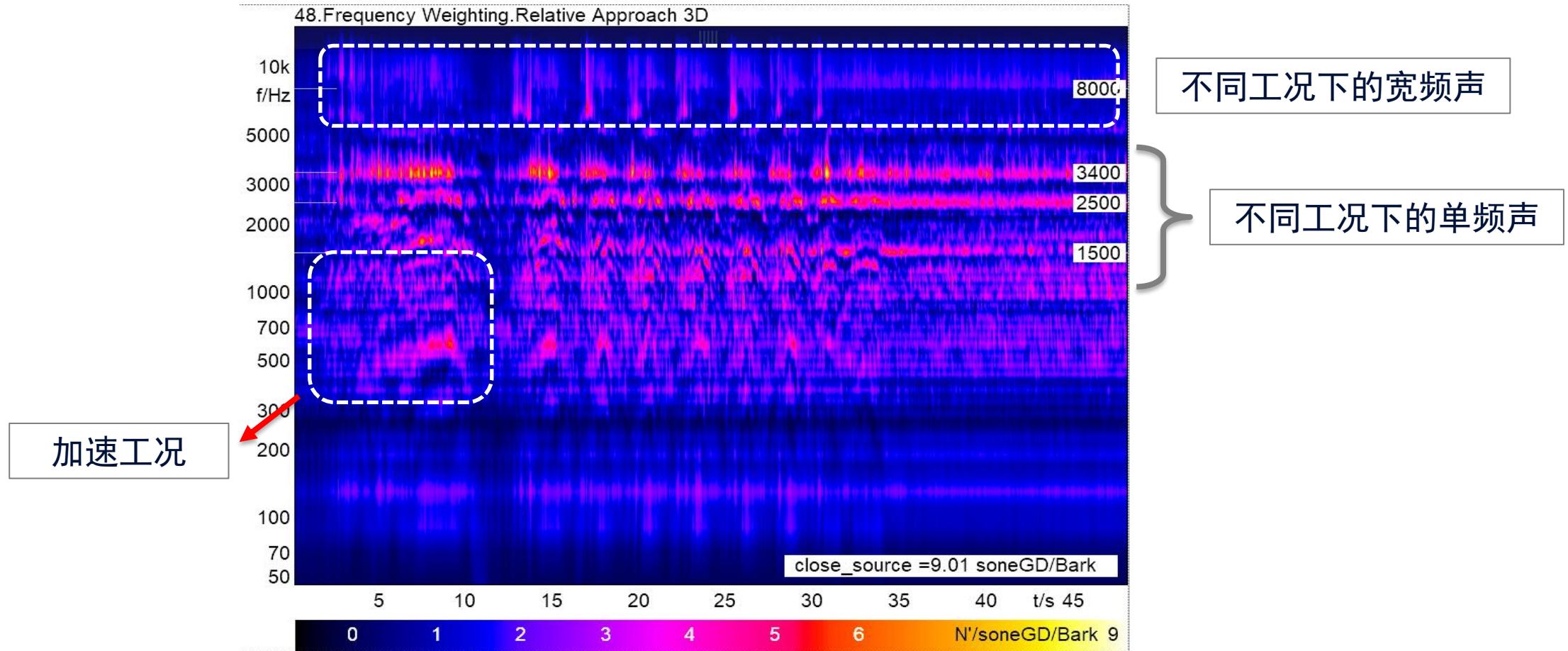
# Analysis with ArtemiS SUITE

原始工况噪声



- 数据工况主要包括加速、tip in/out 和稳态三个阶段
  - 1) 以上是FFT与HEAD 专利算法 Relative Approach colormap效果对比，通过Relative Approach 算法更与主观相匹配；
  - 2) 通过对比，Relative Approach更能识别特征频率，如分别为1500, 2500, 3400 和 8000Hz。

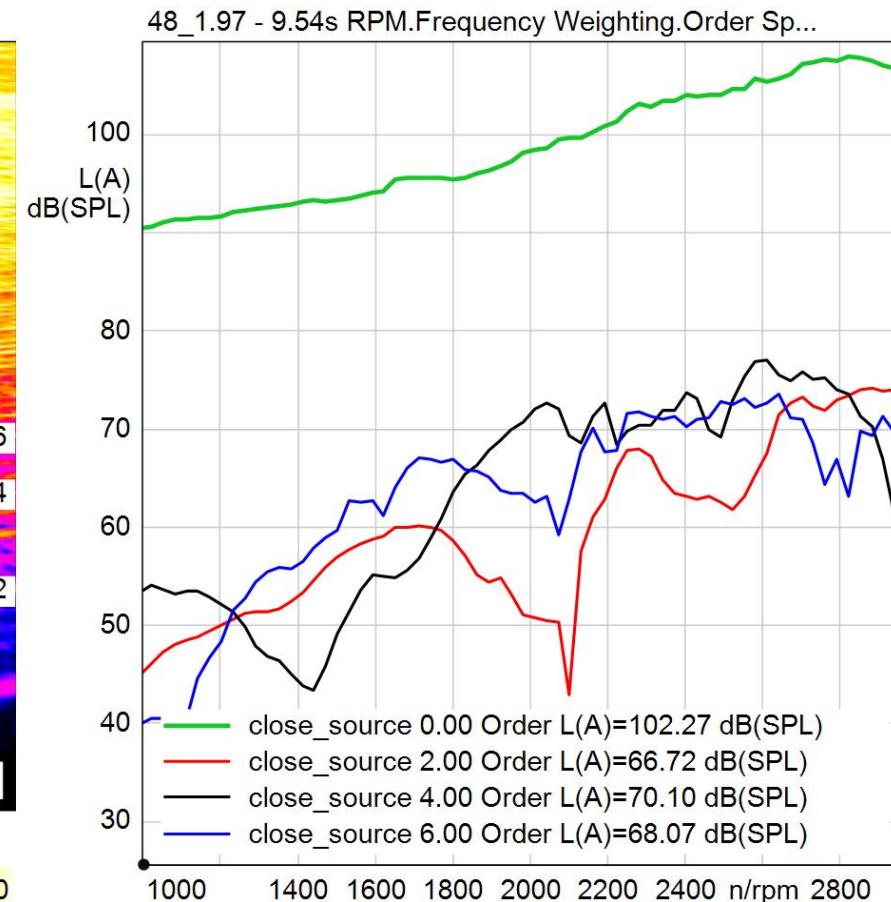
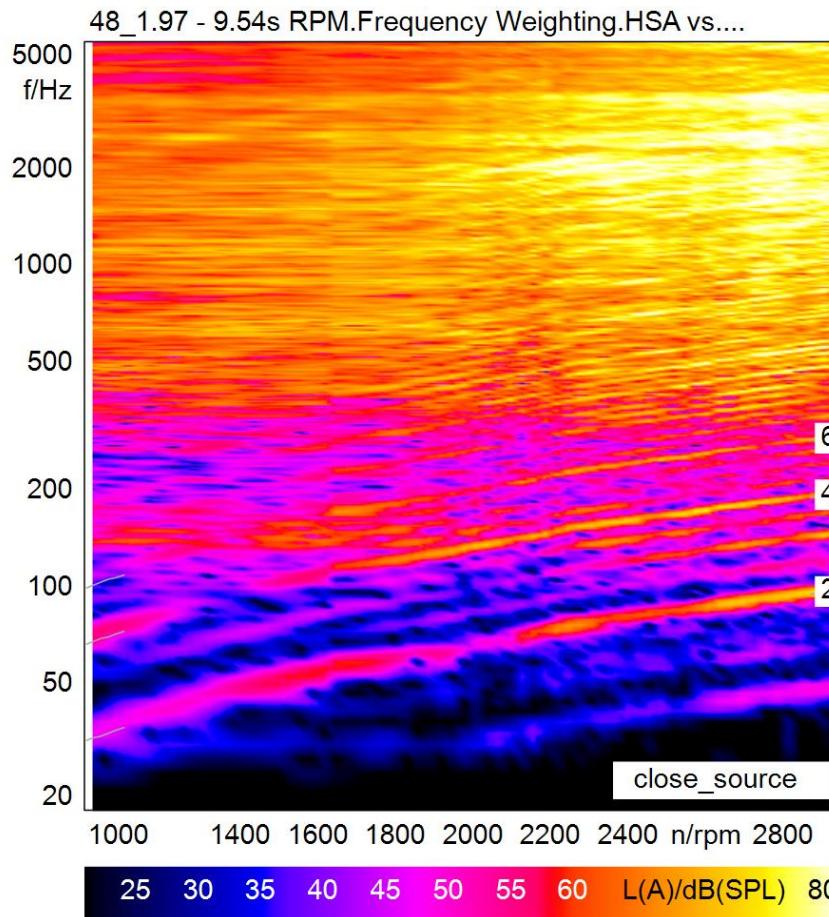
# Analysis with ArtemiS SUITE



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  - 1) 以上是FFT与HEAD 专利算法 Relative Approach colormap效果对比，通过Relative Approach 算法更与主观相匹配；
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# Analysis with ArtemiS SUITE

加速工况噪声

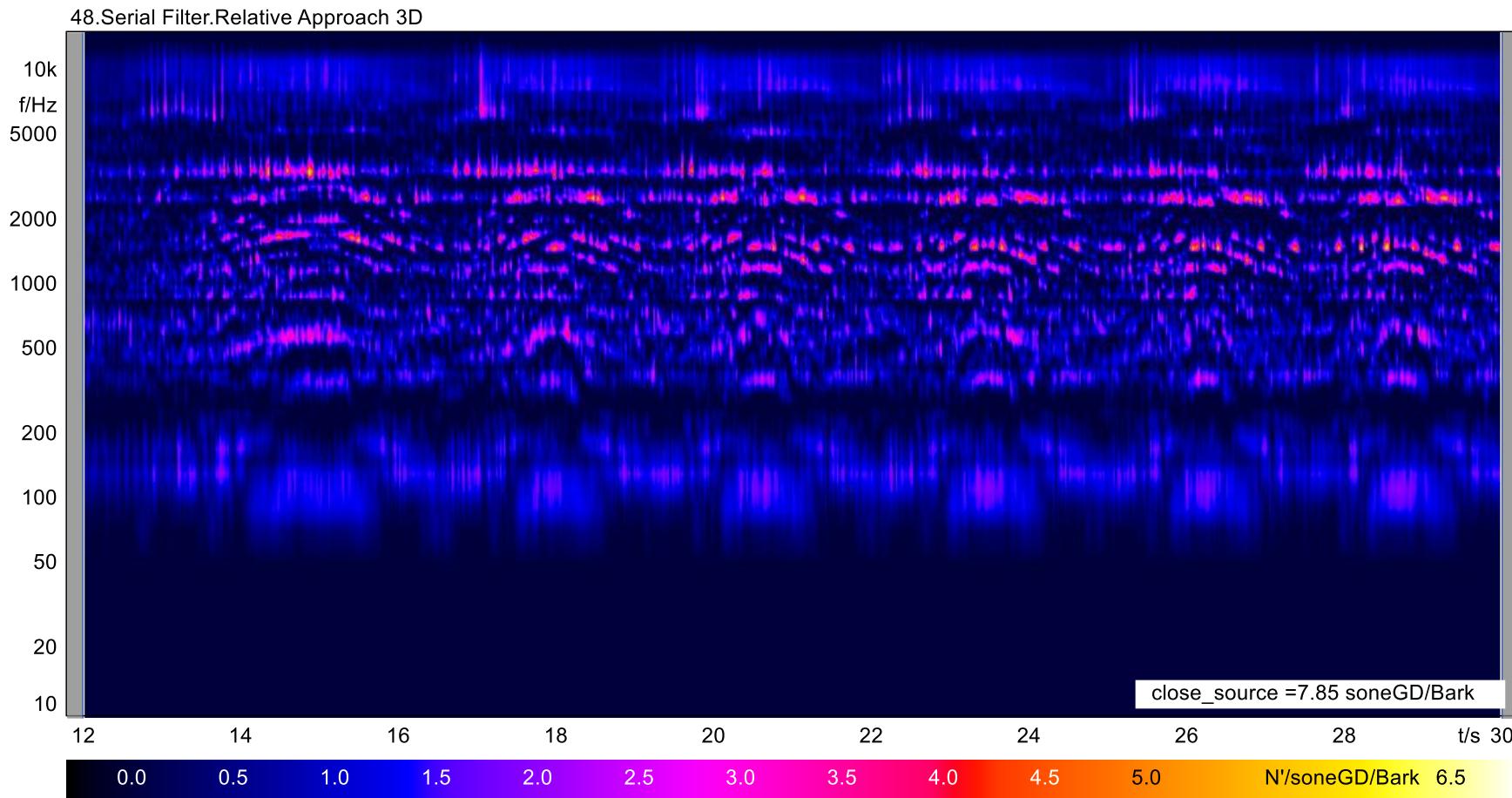


- 加速工况

- 1) 通过加速转速提取运用HAS算法可清晰得到2, 4和6阶的主阶次贡献3D和2D;
- 2) 3D与2D结合体现不同转速下对应的不同阶次贡献。

# Analysis with ArtemiS SUITE

Tip in/out 噪声

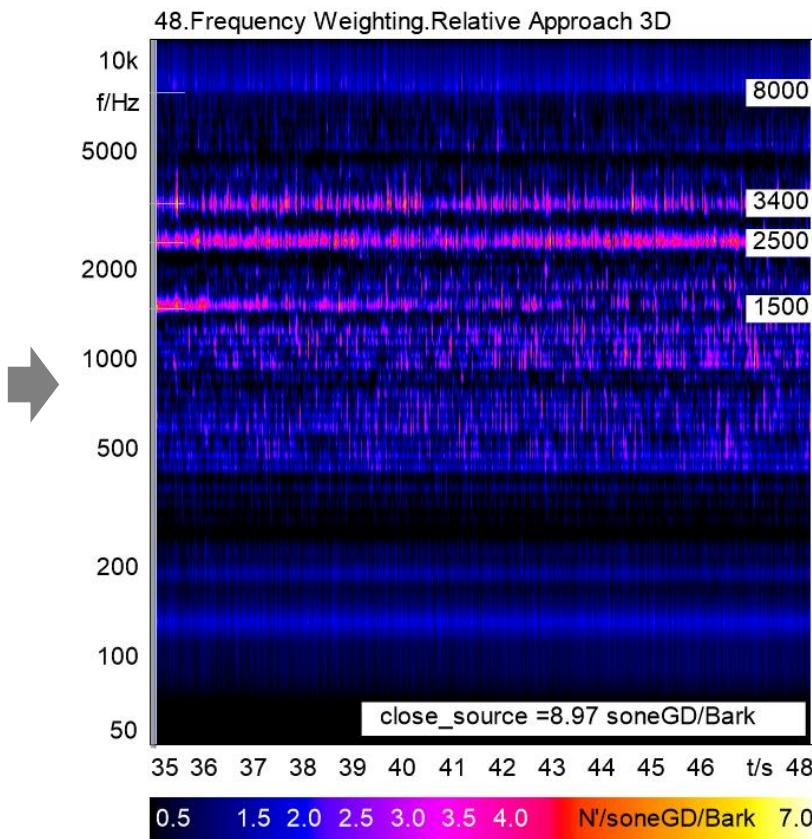
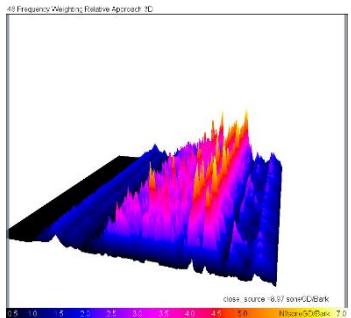


- Tip in/out工况

该工况既存在有2500, 3400Hz的单频又有8000的宽频声；

# Analysis with ArtemiS SUITE

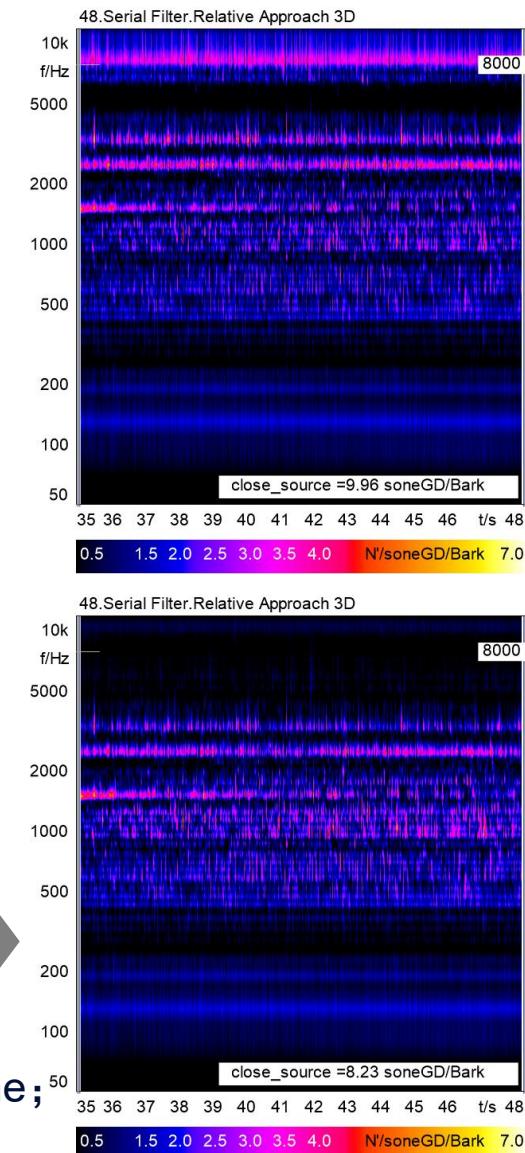
原稳态工况噪声



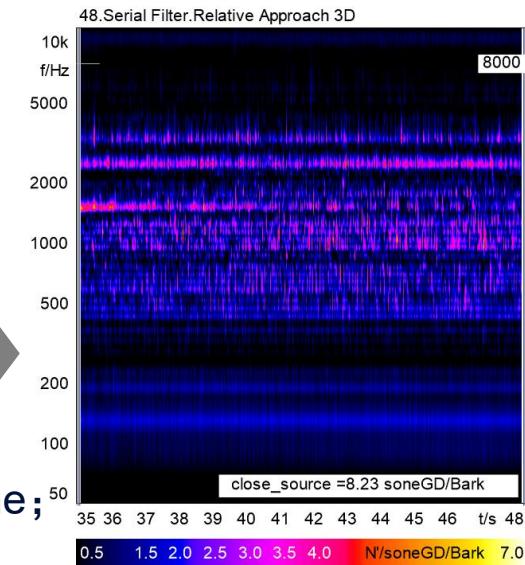
- 用Relative Approach值衡量噪声（或异响标准）

1) 原稳态工况噪声3D计算出来的值8.97 sone, 滤波之后为8.32sone;

即可通过该值的大小来衡量8000Hz宽频噪声是否存在。



8000Hz滤波加强

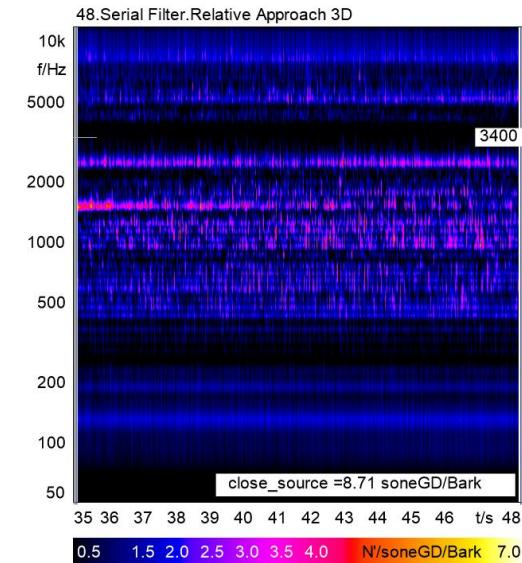
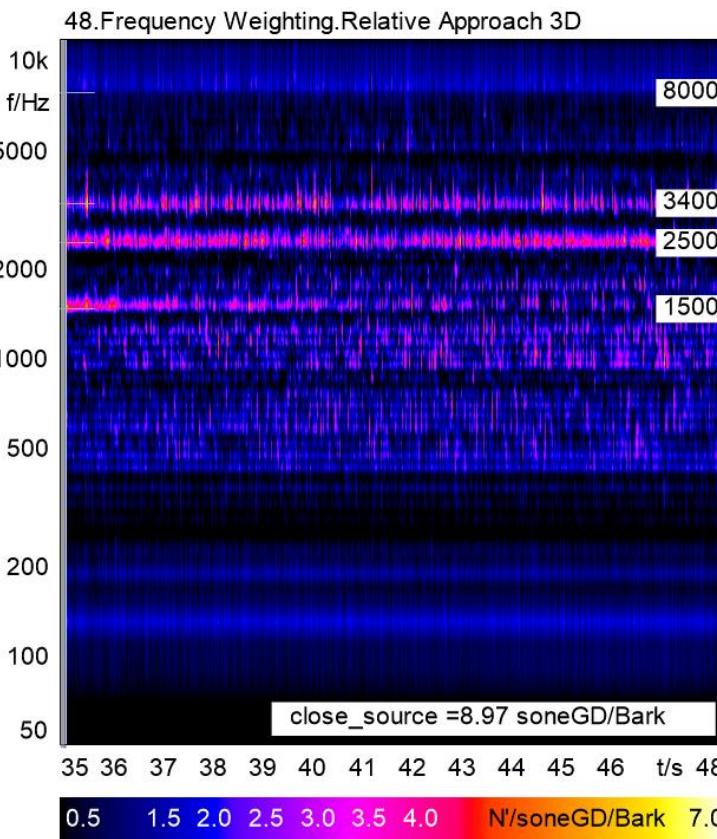
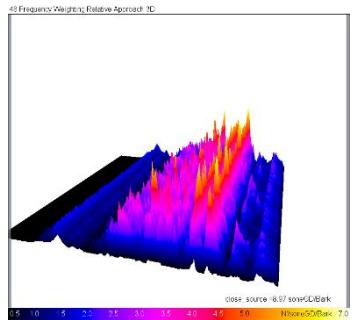


8000Hz滤波减弱

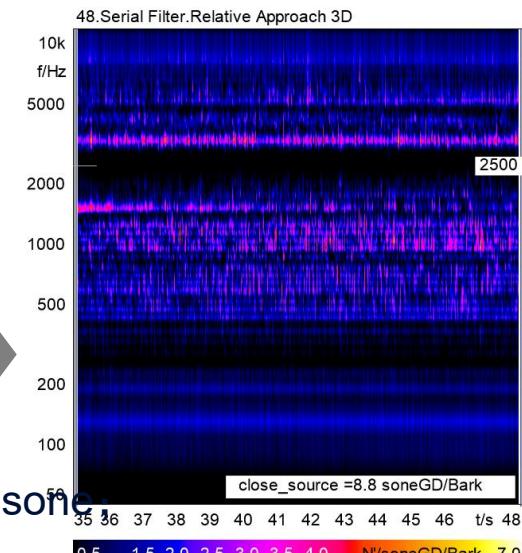


# Analysis with ArtemiS SUITE

原稳态工况噪声



3400Hz滤波减弱



2500Hz滤波减弱

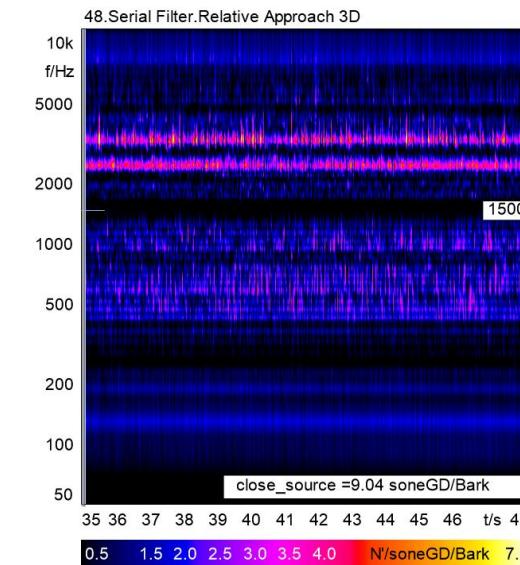
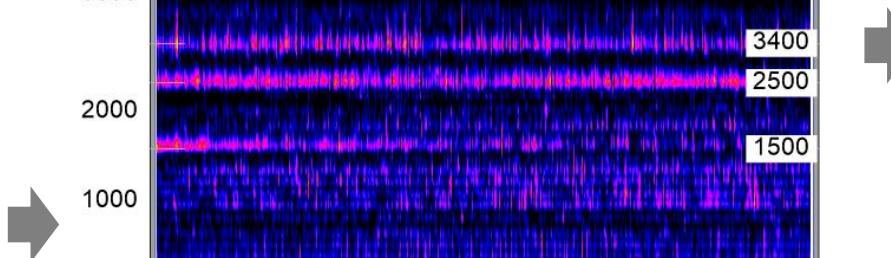
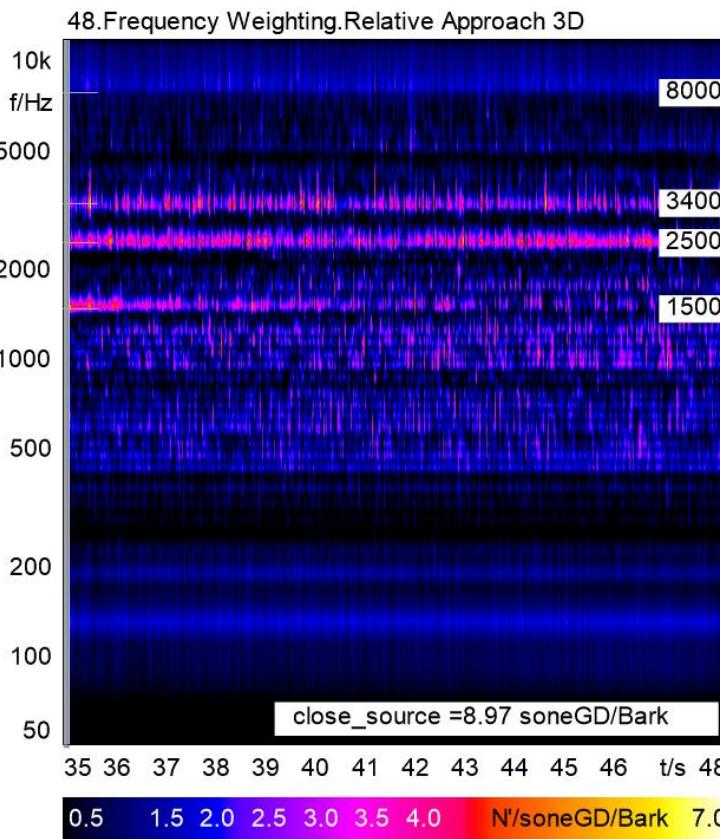
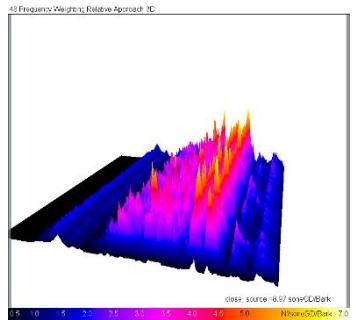
- 用Relative Approach值衡量噪声（或异响标准）

1) 原稳态工况噪声3D计算出来的值8.97 sone, 滤波之后为8.71/8.8sone;

即可通过该值的大小来衡量3400和2500Hz噪声是否存在。

# Analysis with ArtemiS SUITE

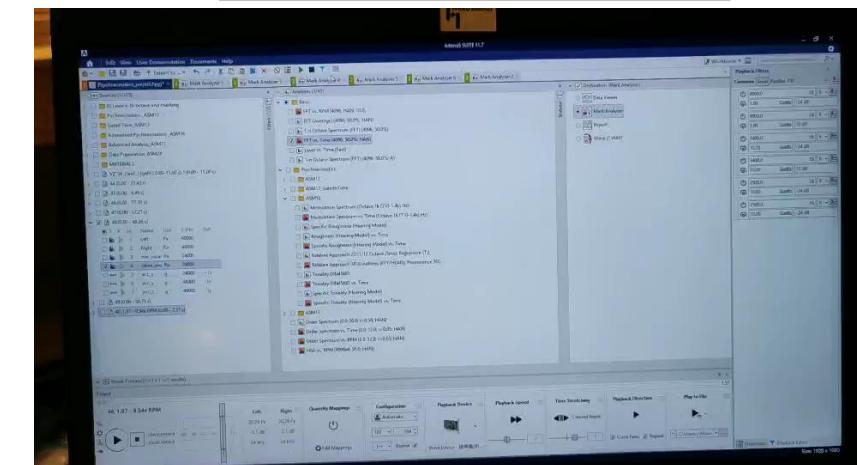
原稳态工况噪声



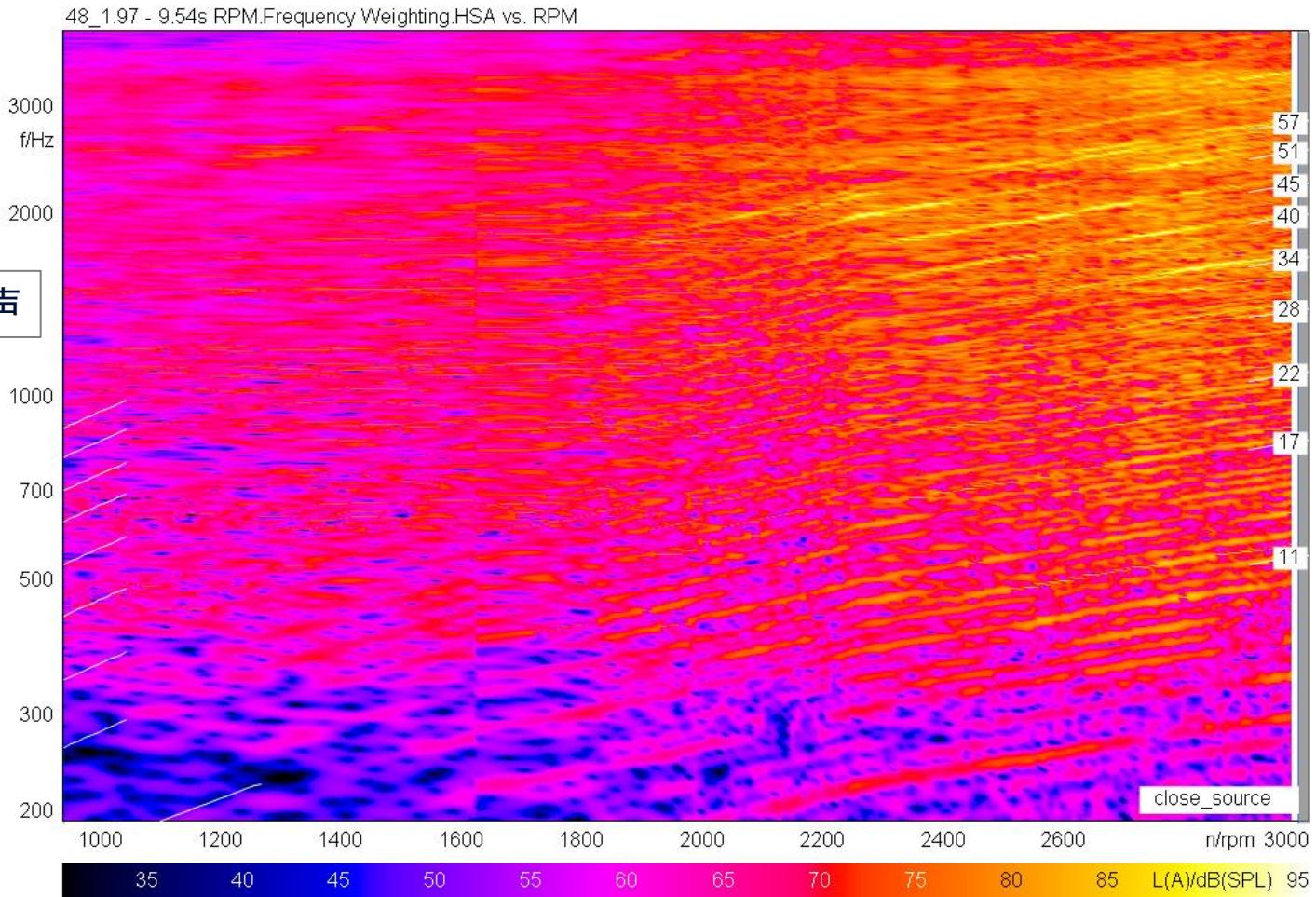
1500Hz滤波减弱



高级回放滤波模块Video



# Analysis with ArtemiS SUITE



# Analysis with ArtemiS SUITE

