



UIC SUSTAINABILITY
LOWNOISEPAD Annex A
Graphic Reference Guide for DB

October 2023



INTERNATIONAL UNION
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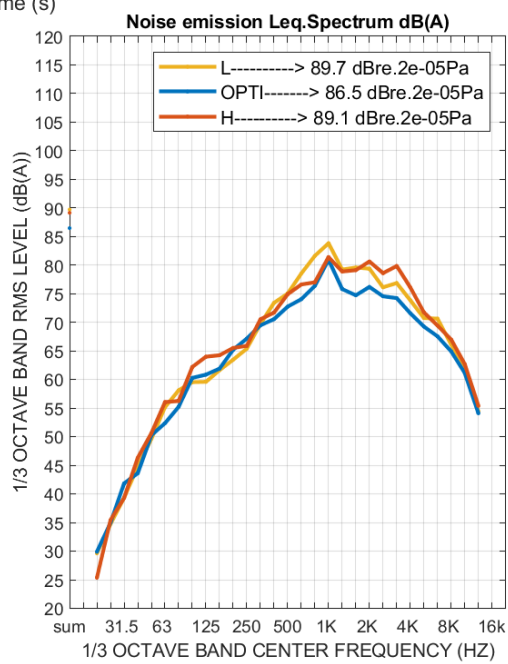
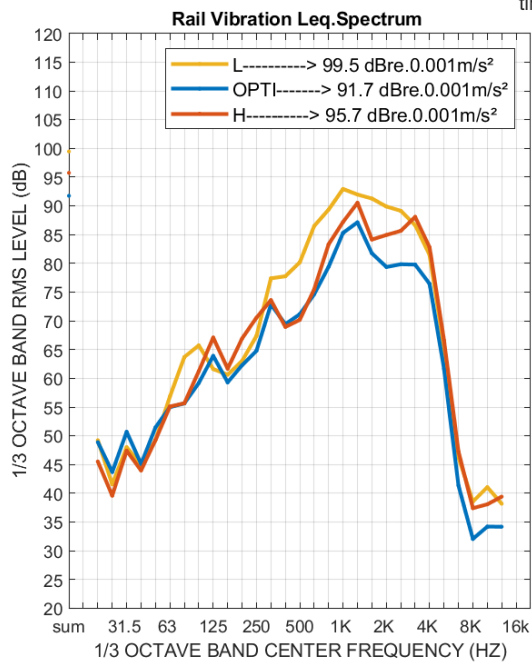
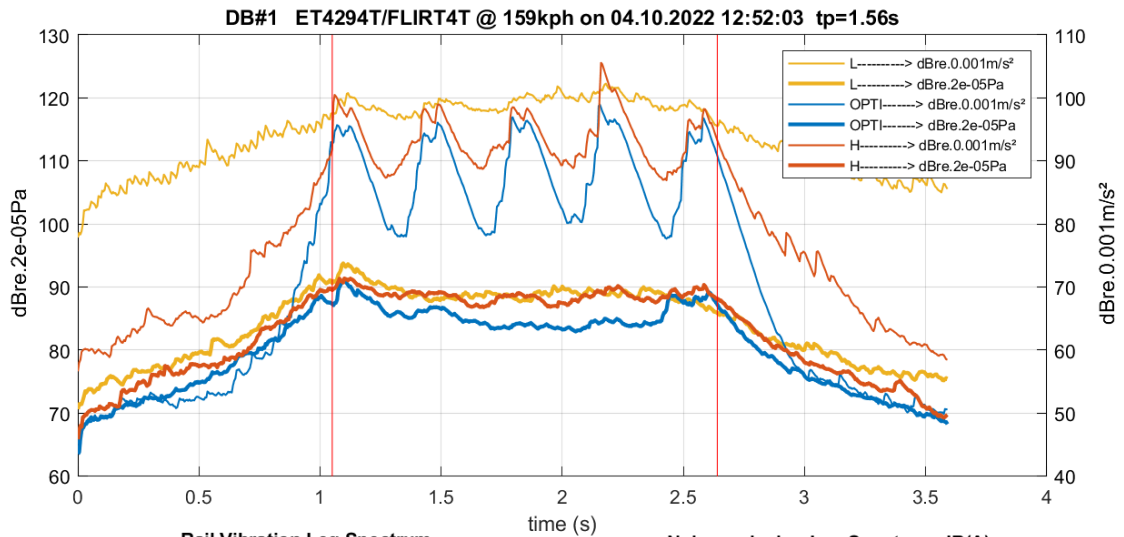
This annex, provided in a separate document, gives a detailed and graphic overview of the pass by data collected from each project member throughout the project. All results showing the noise reduction and detailed pass-by analysis, calculated on the basis of the data available in the LOWNOISEPAD software tool, are shown in a graph format for each type of rolling stock, given in an individual section for each PP (alongside Chapter 7 of this report). This annex should be used alongside the information gathered as part of the project carried out by UIC and the 12 project participants. It is not recommended to carry out analysis without first having reviewed the LOWNOISEPAD final report and the **Annex B**, and also without consulting and receiving authorisation from the project participants and UIC.

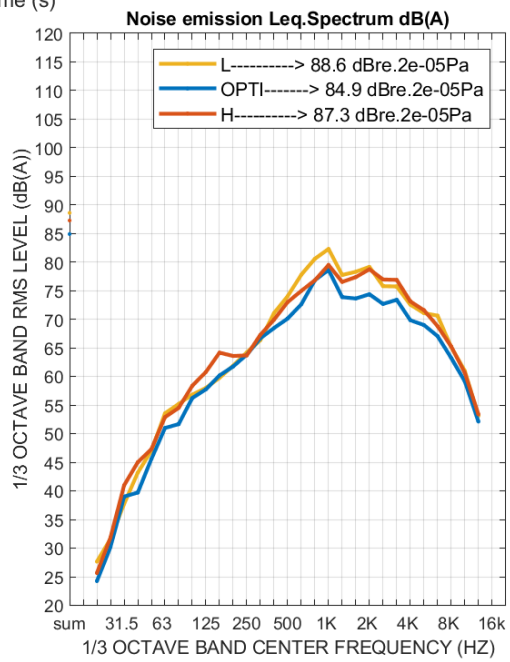
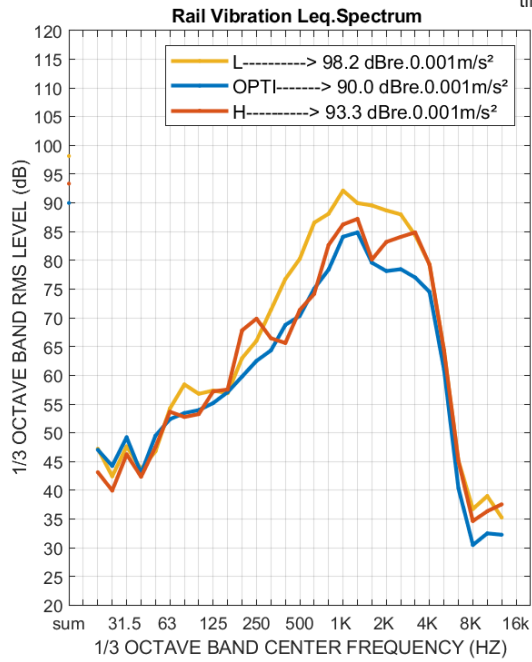
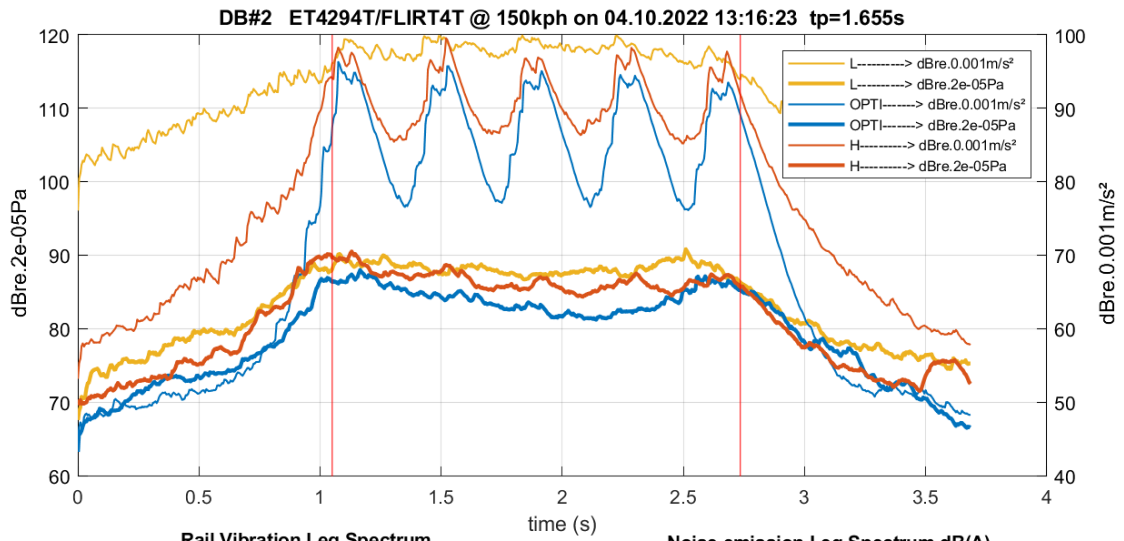


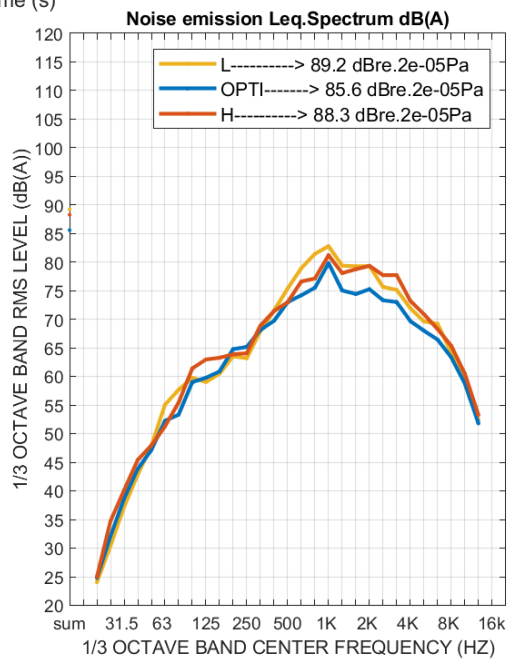
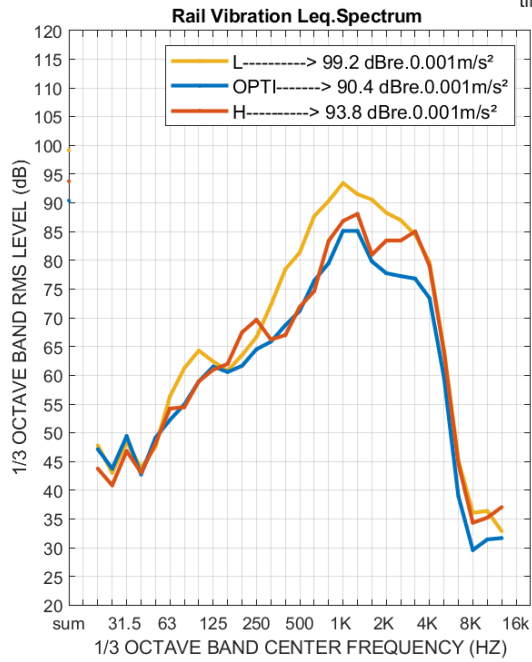
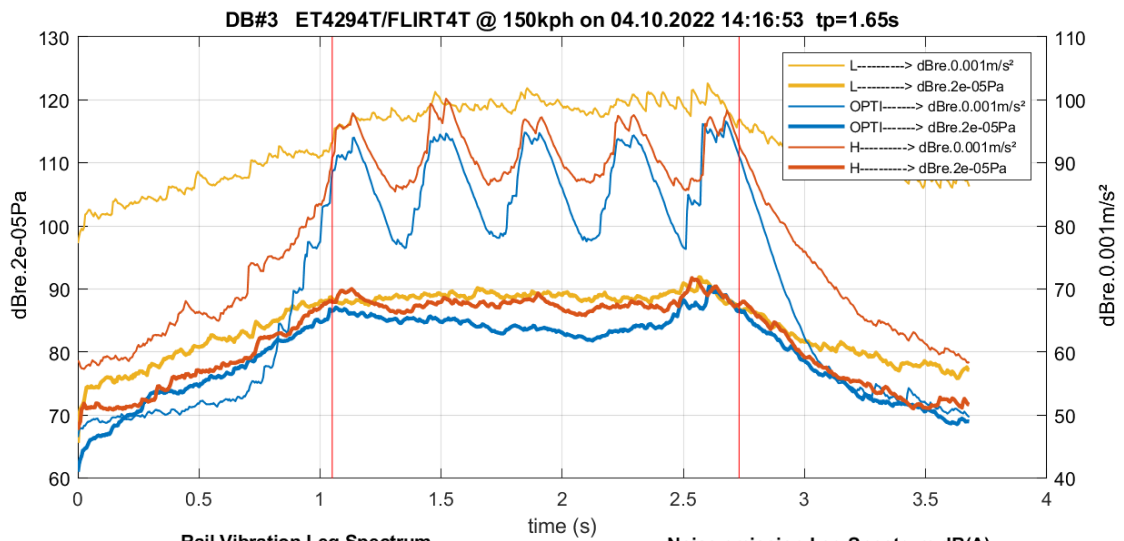
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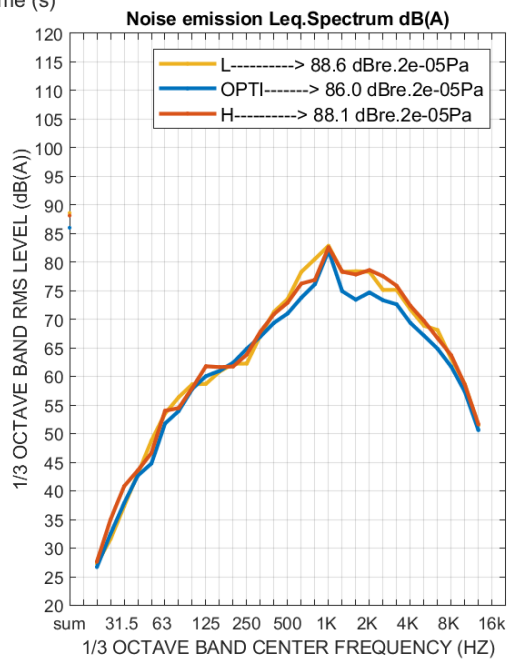
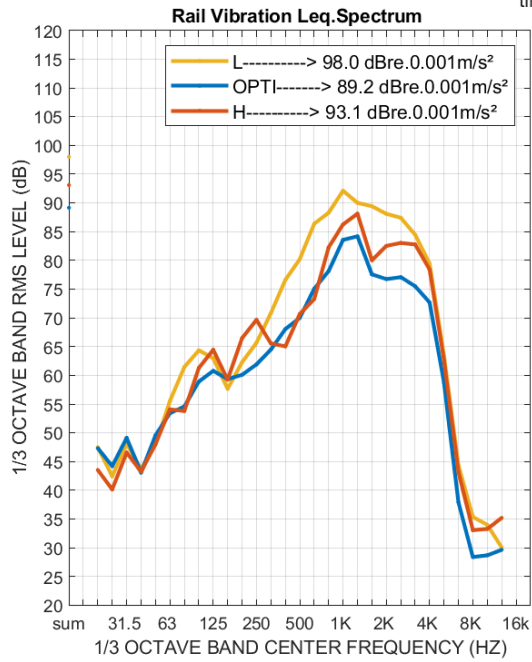
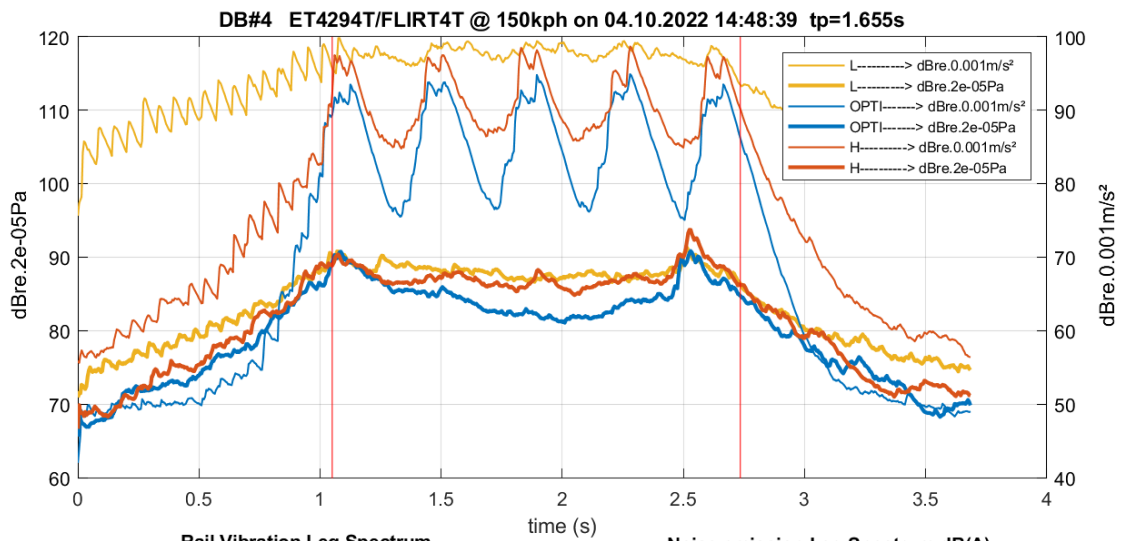
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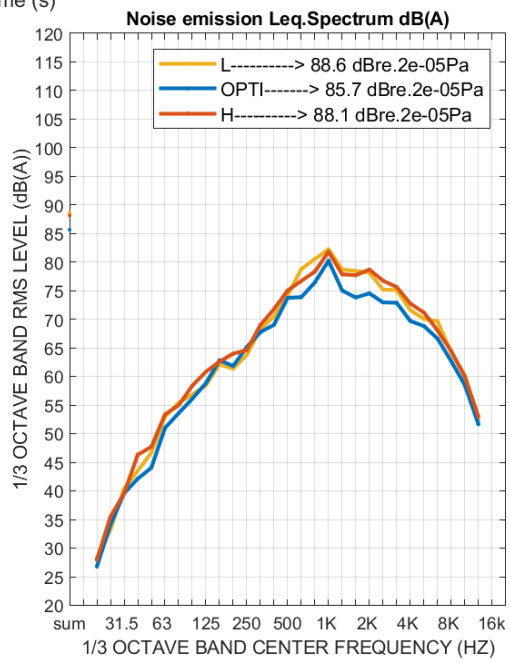
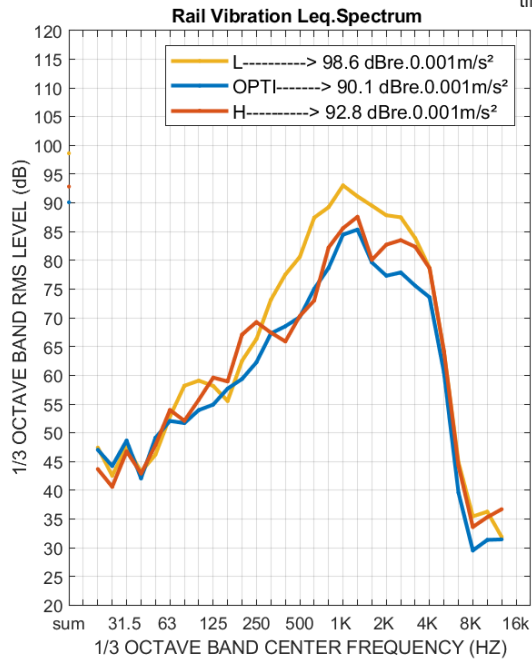
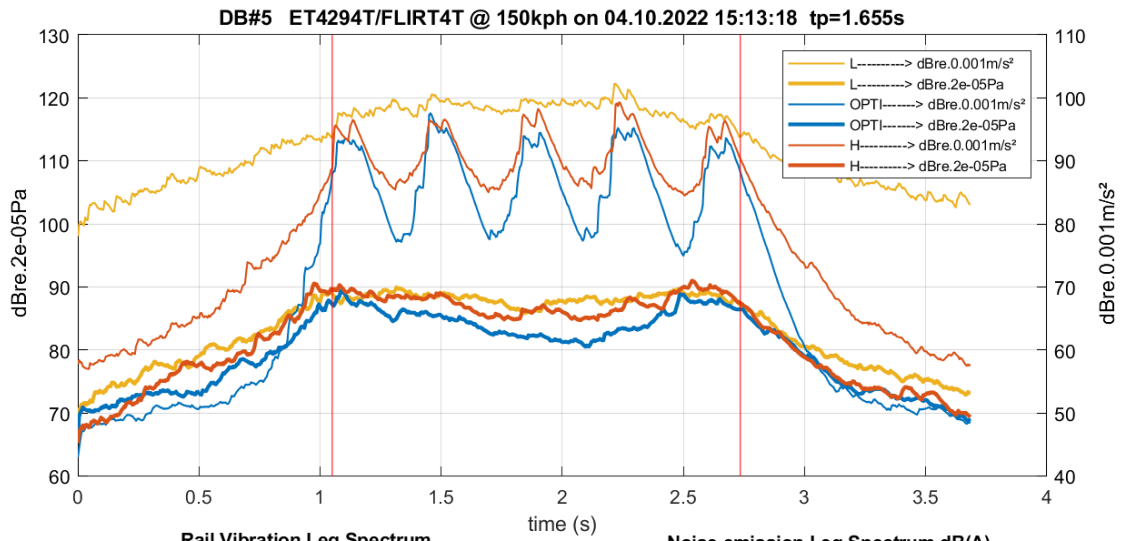
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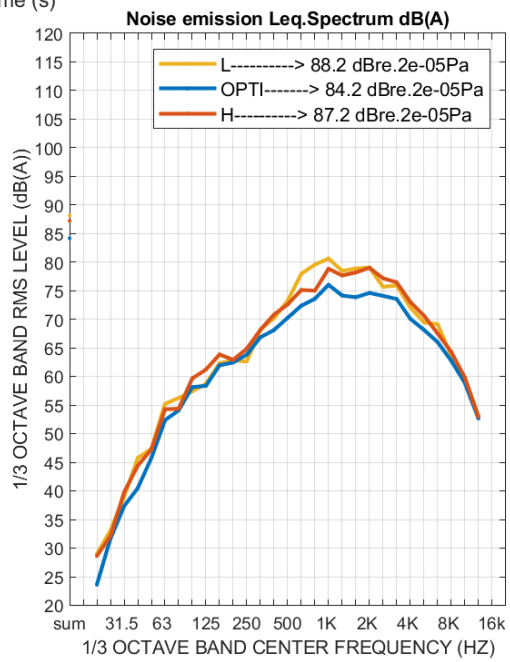
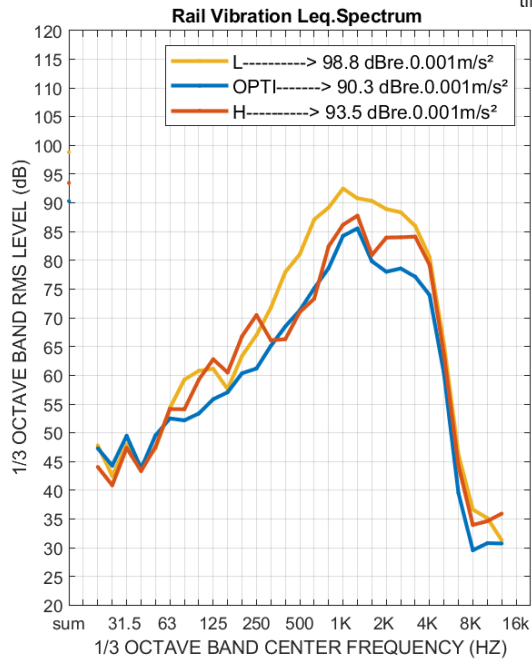
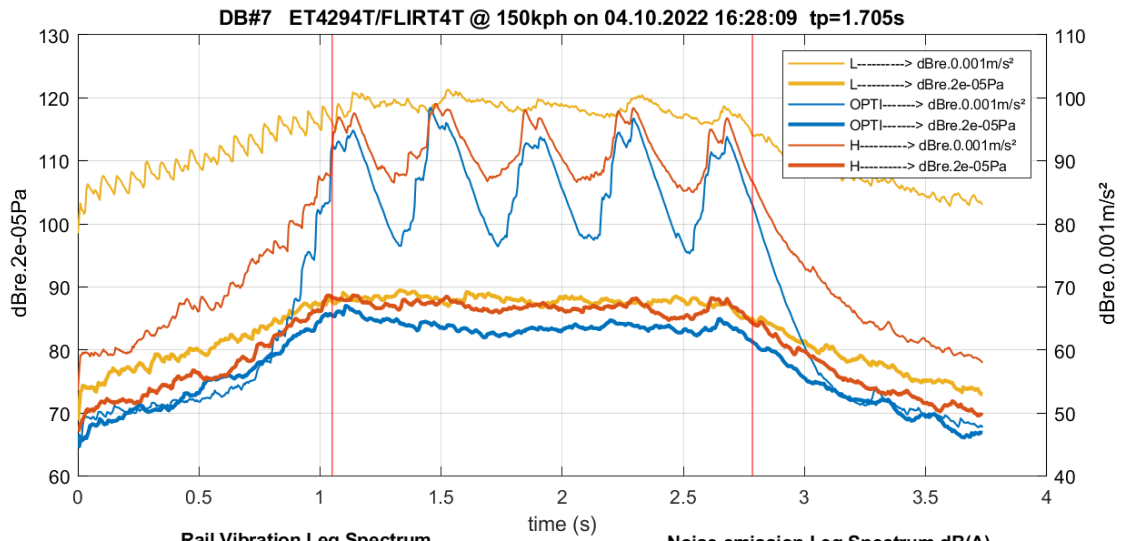


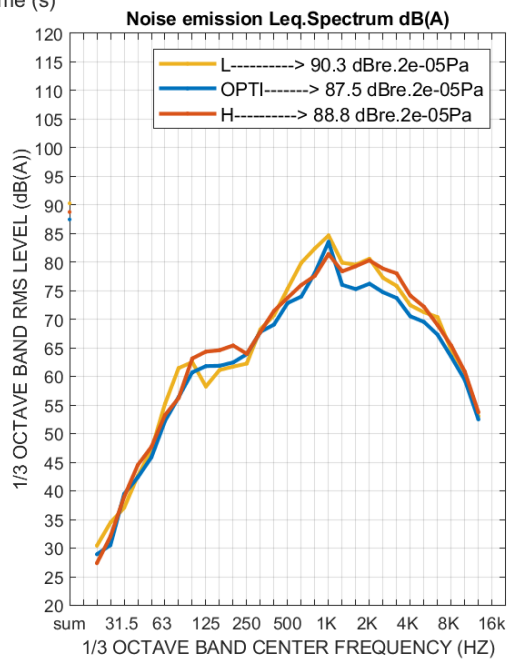
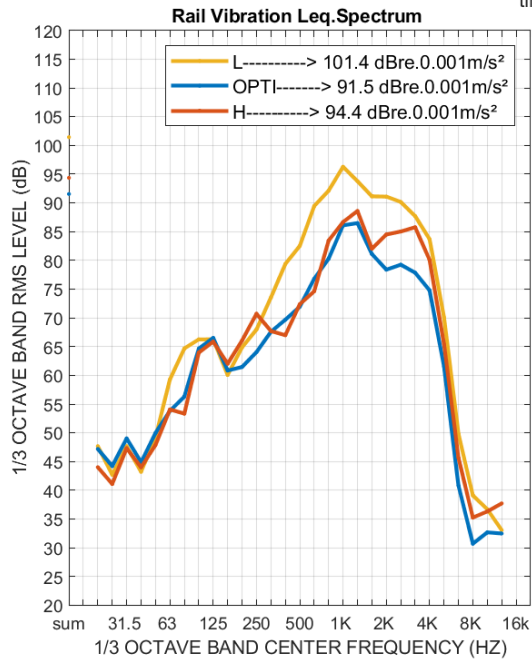
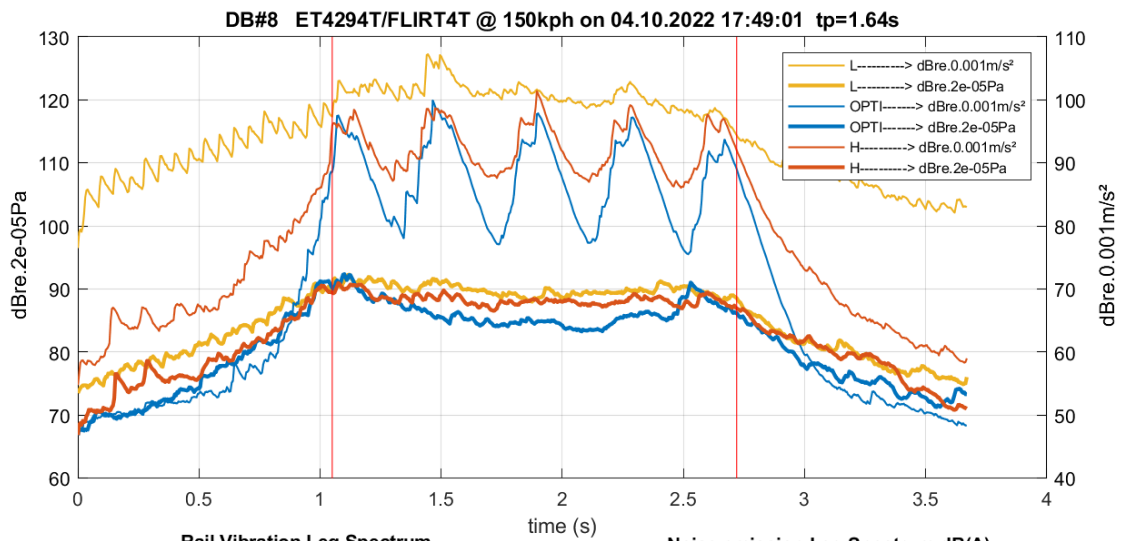


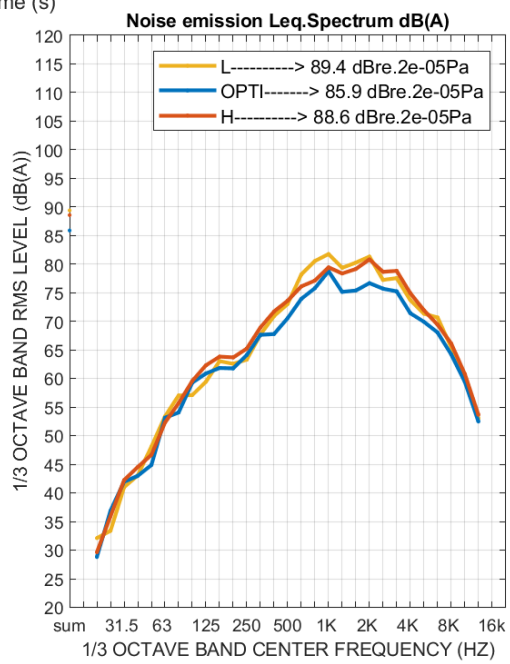
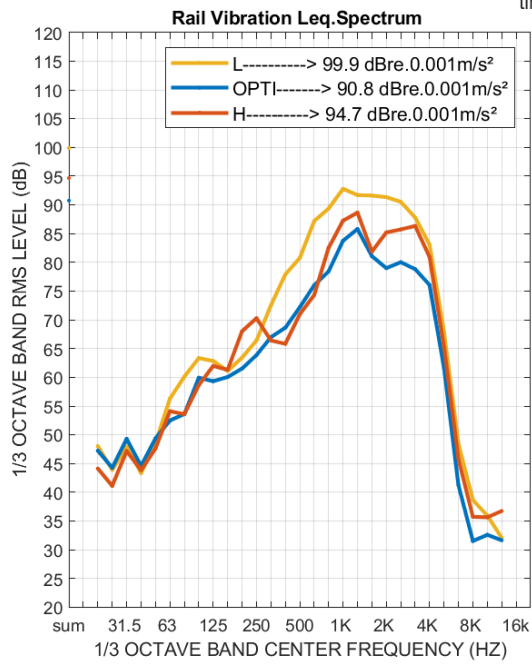
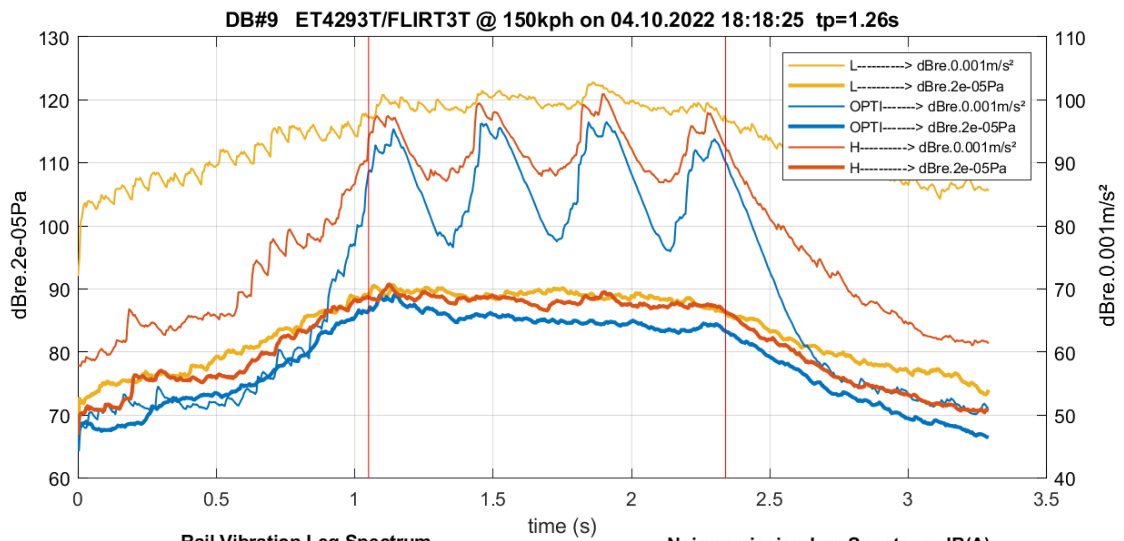


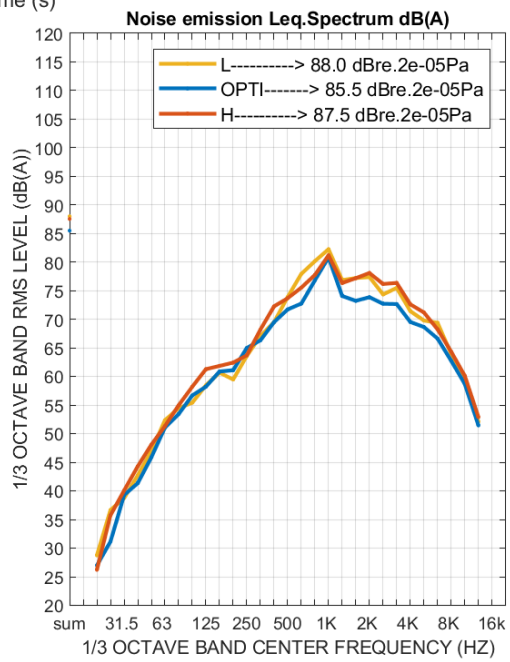
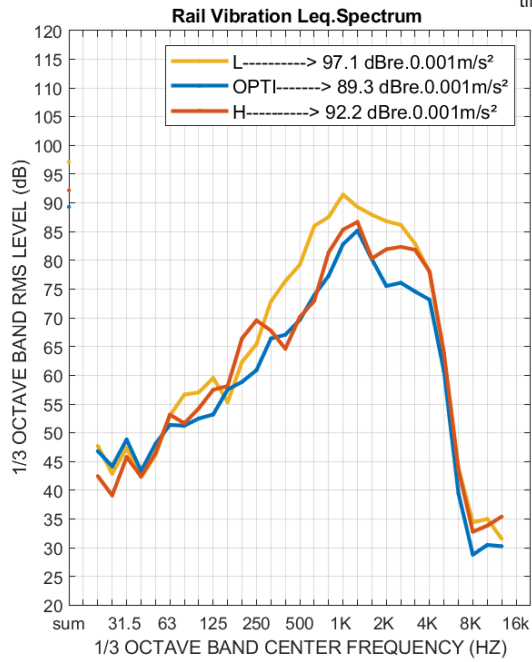
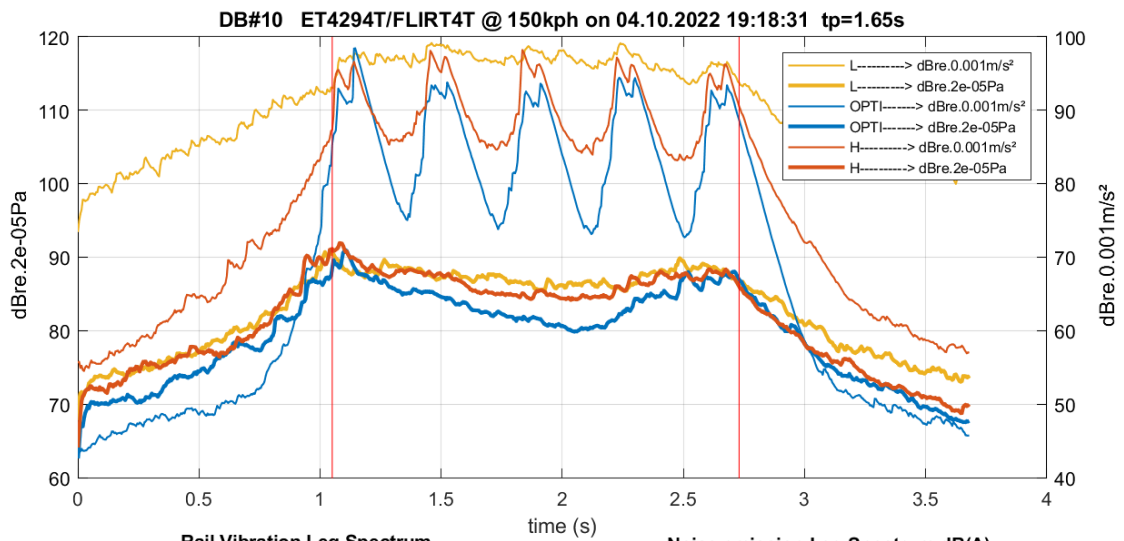


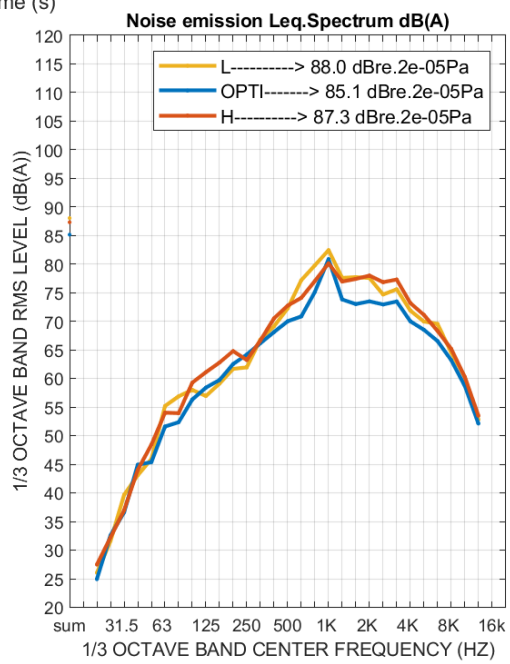
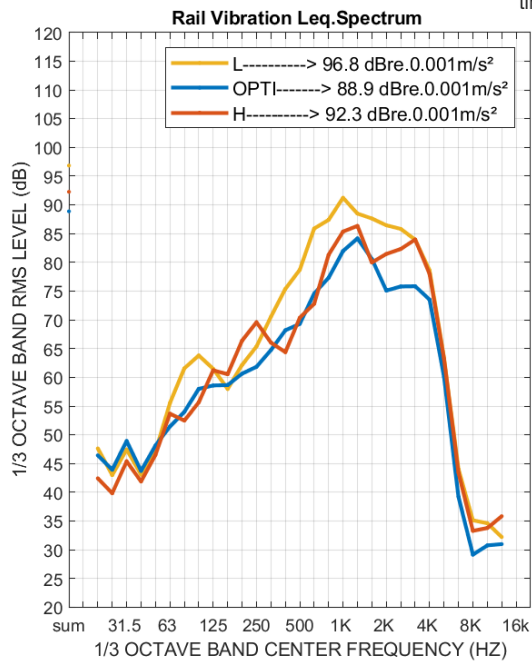
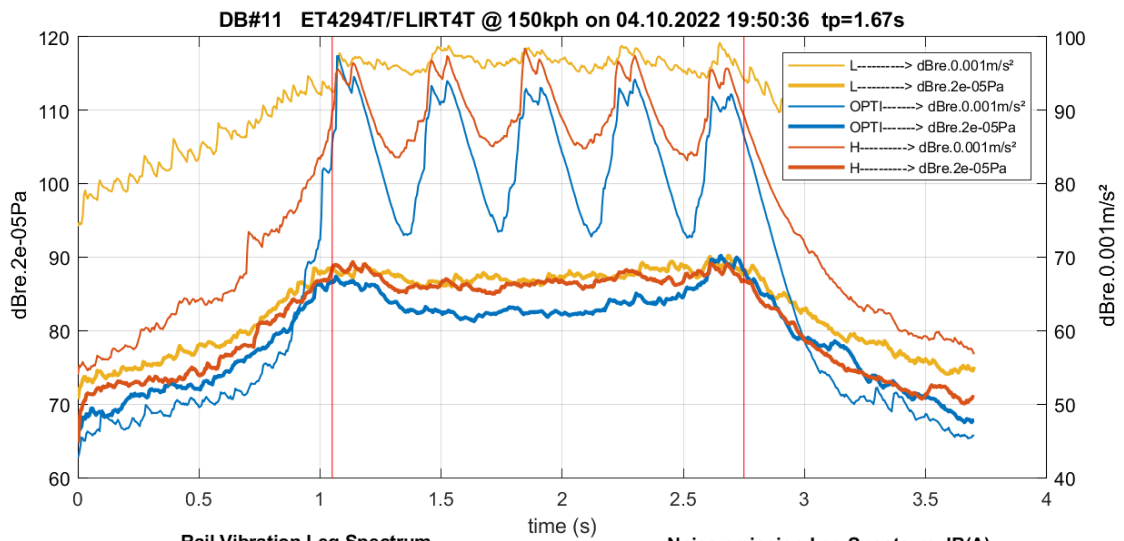


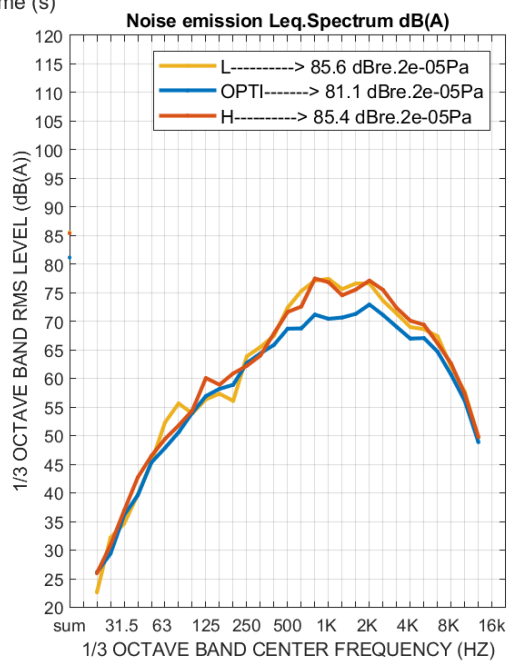
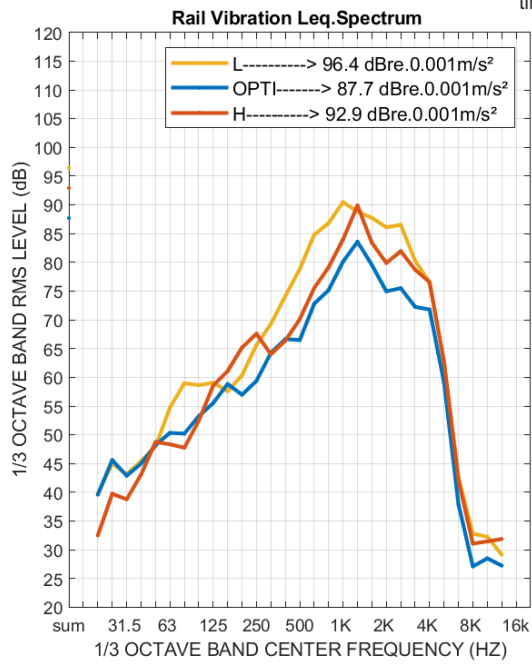
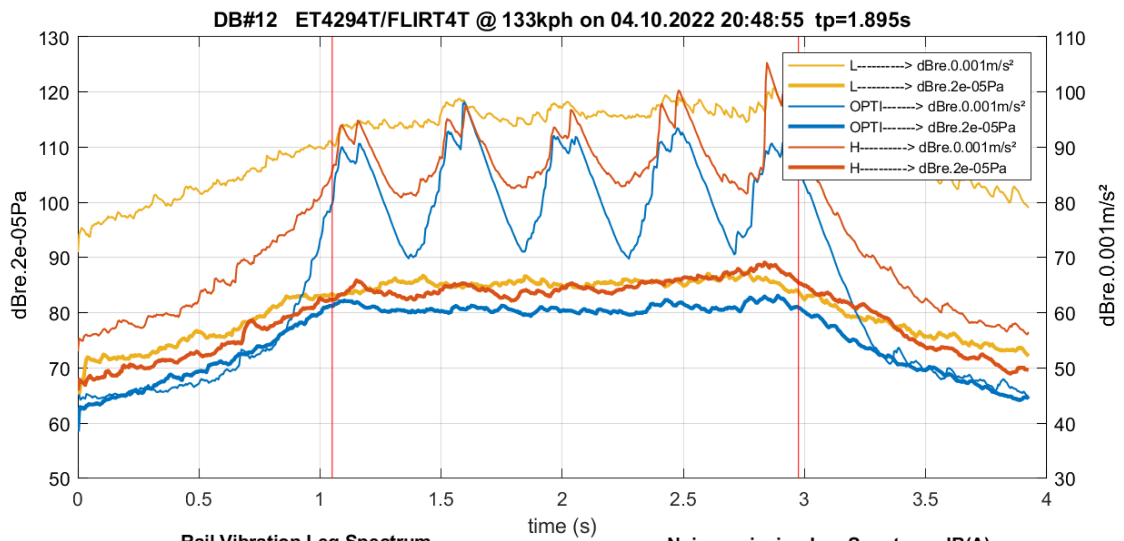


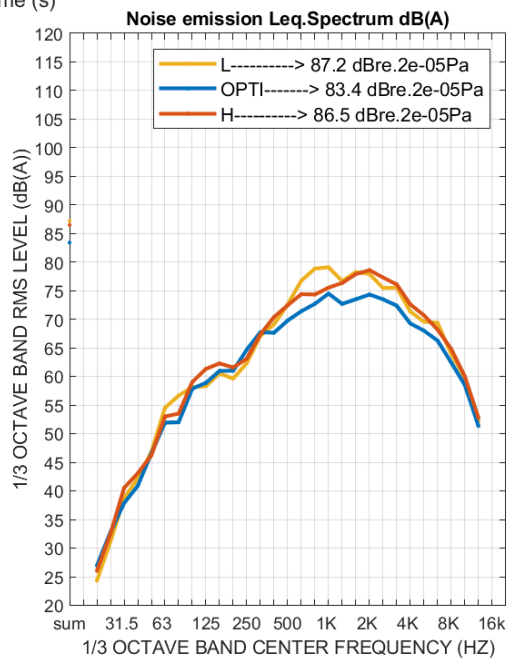
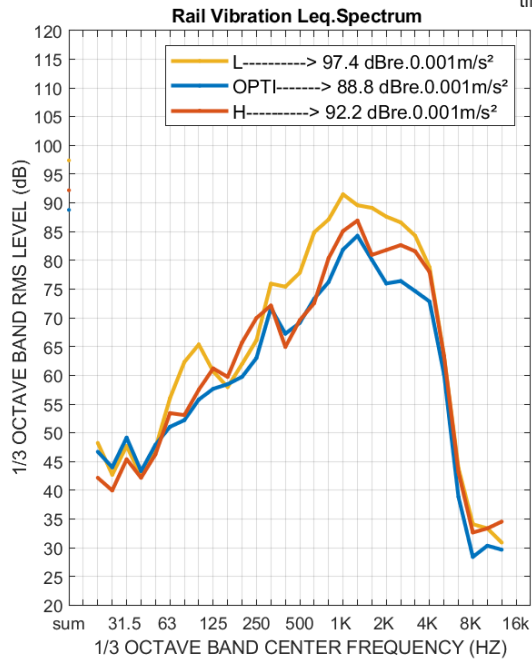
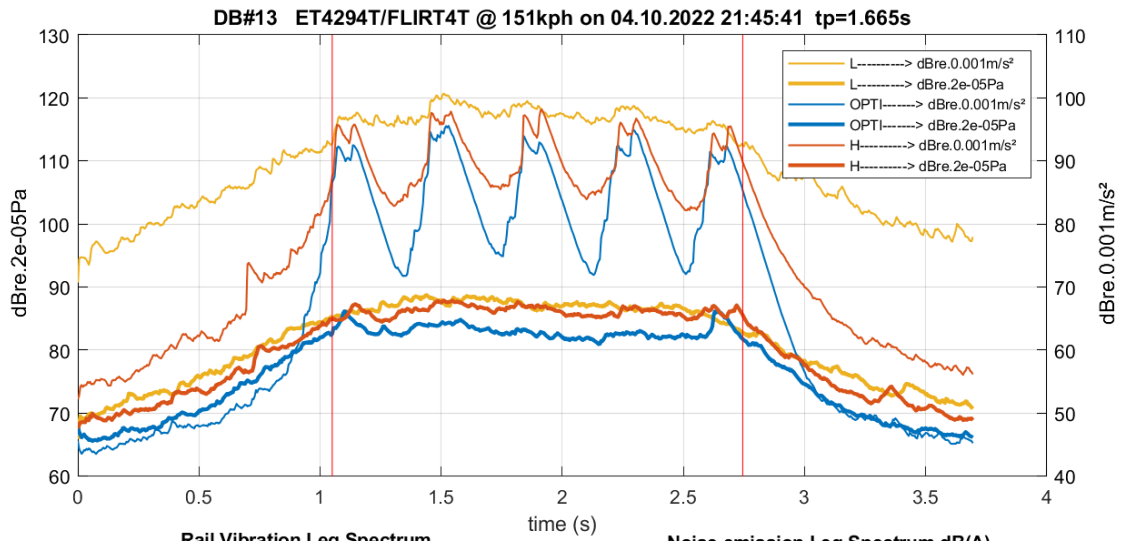


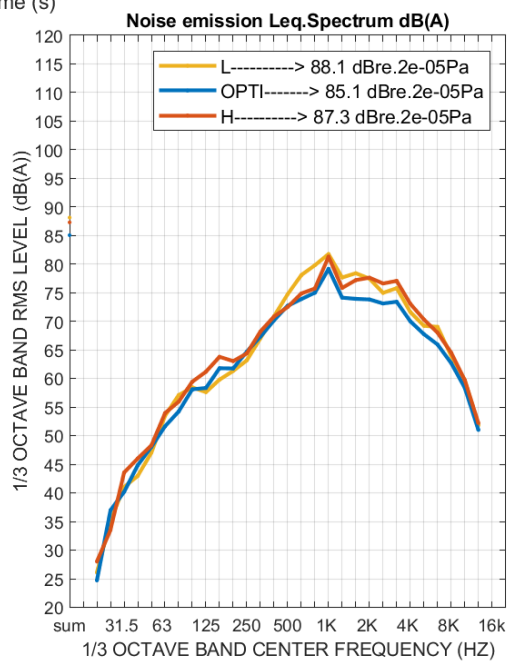
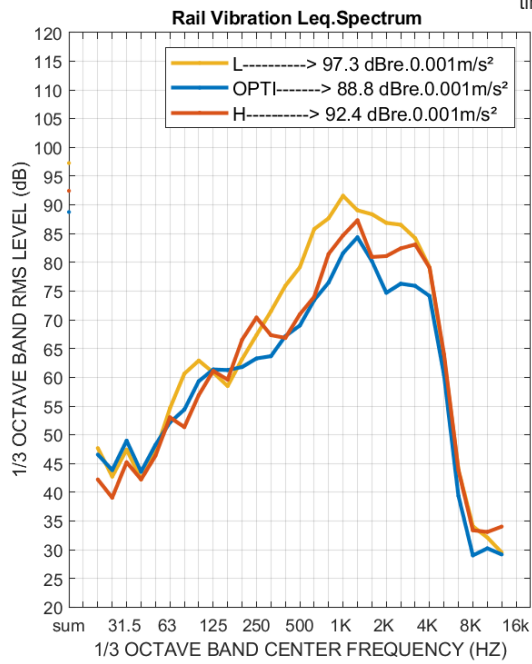
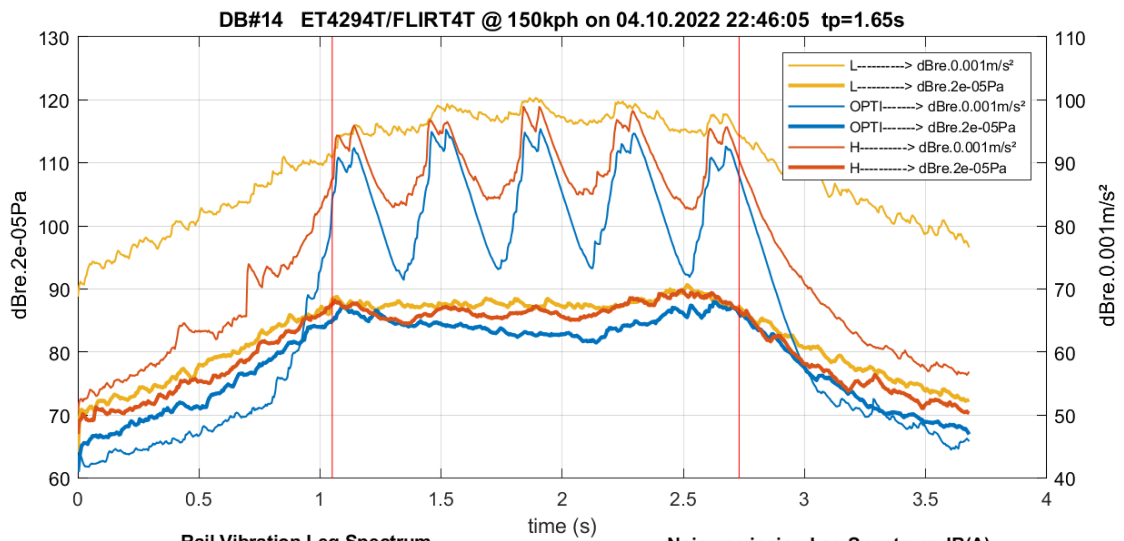


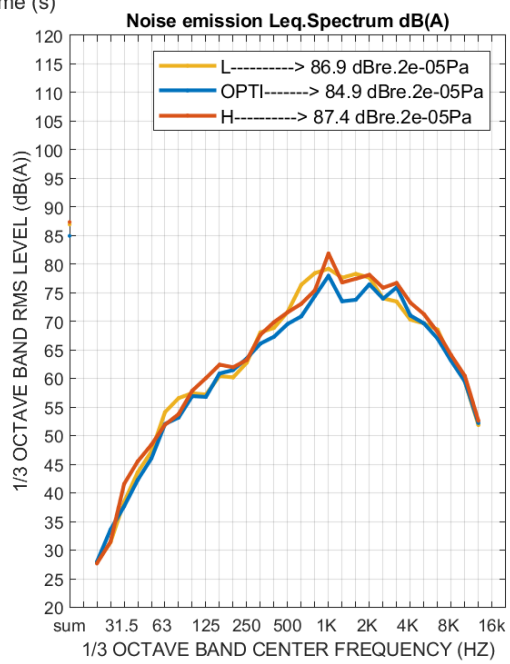
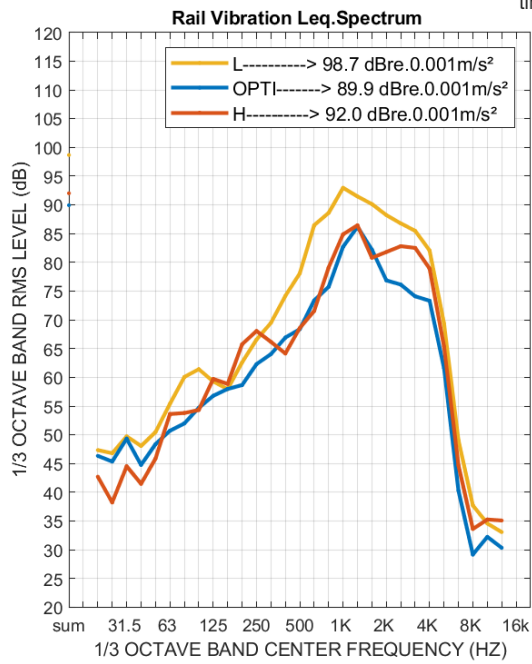
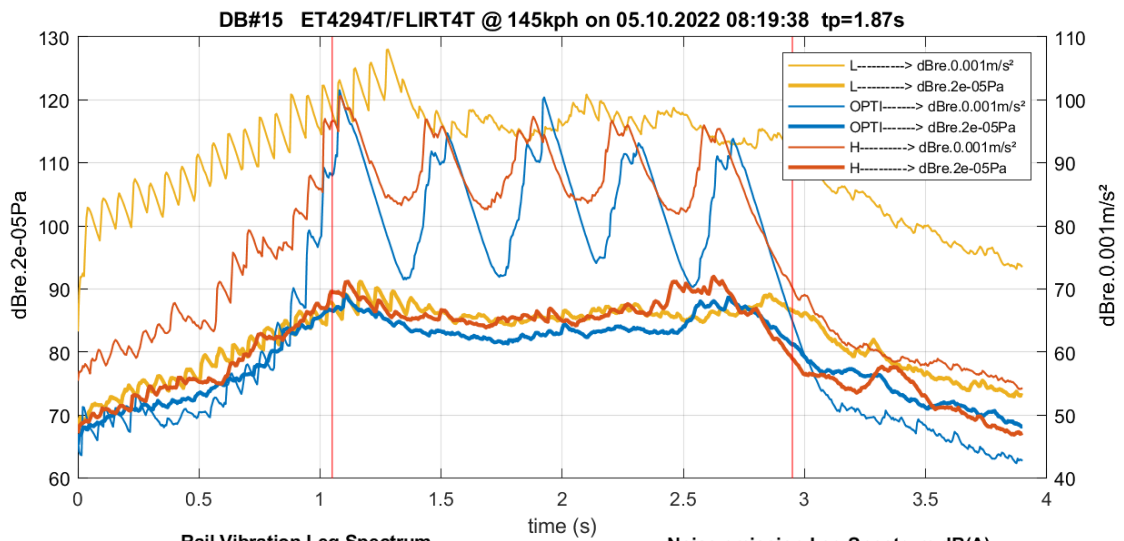




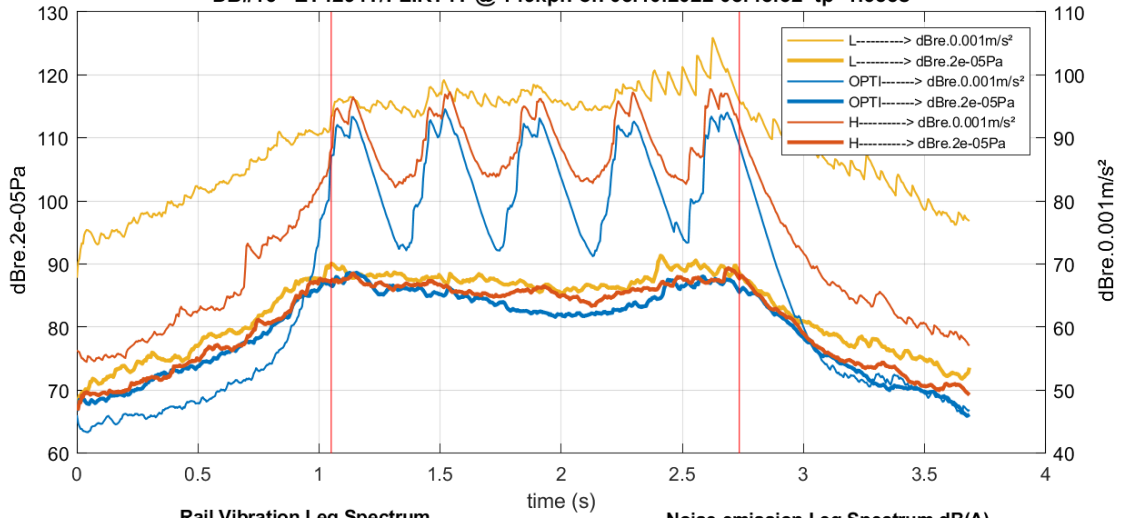




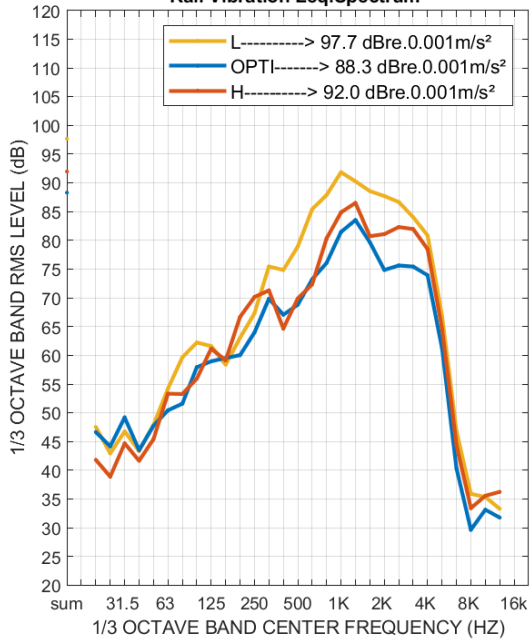




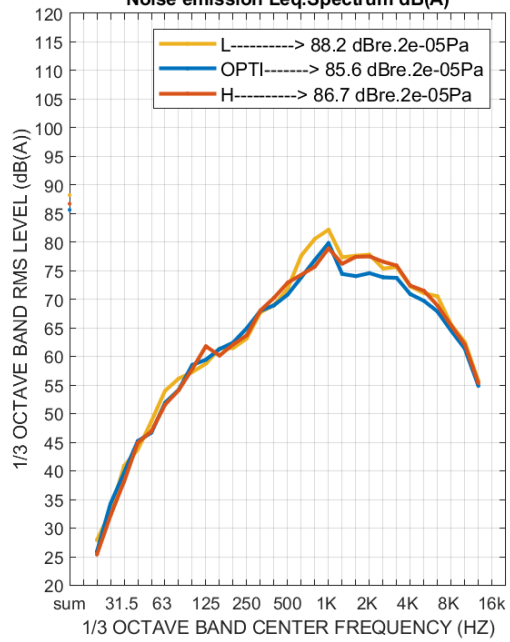
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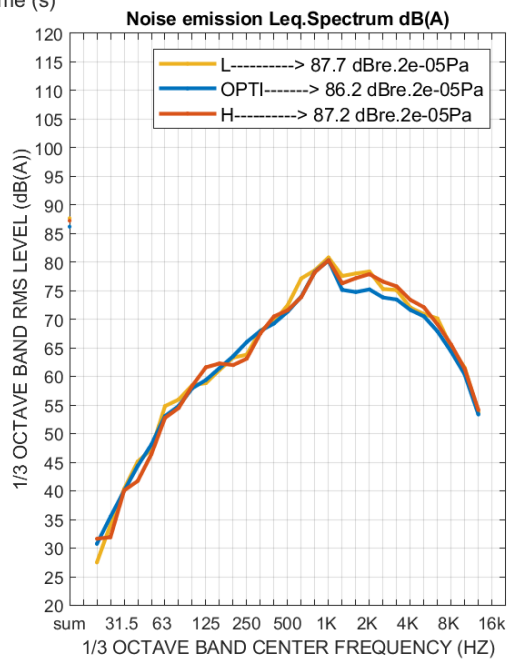
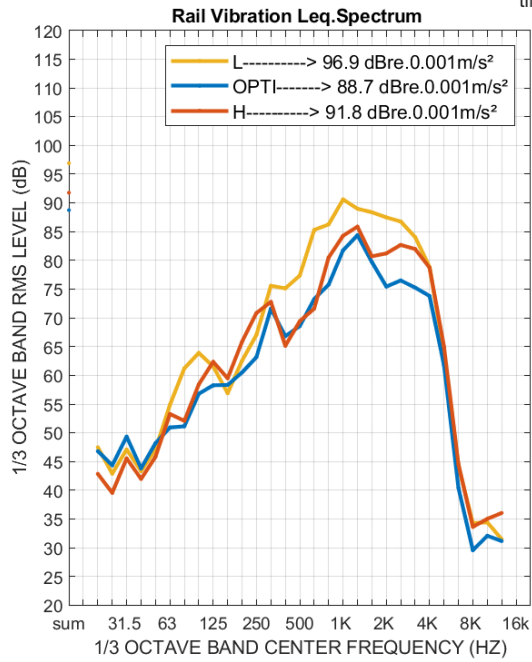
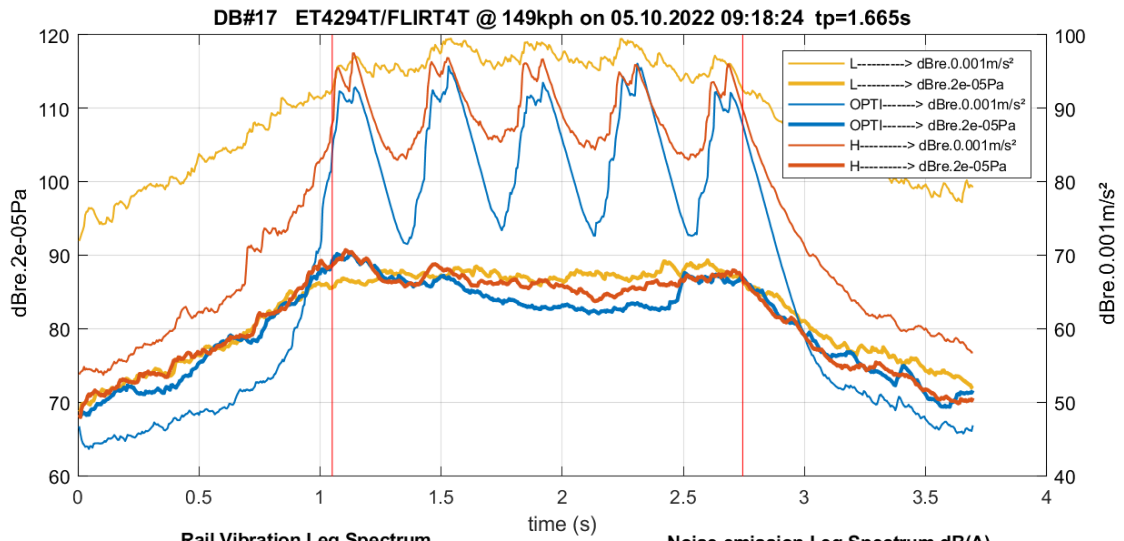


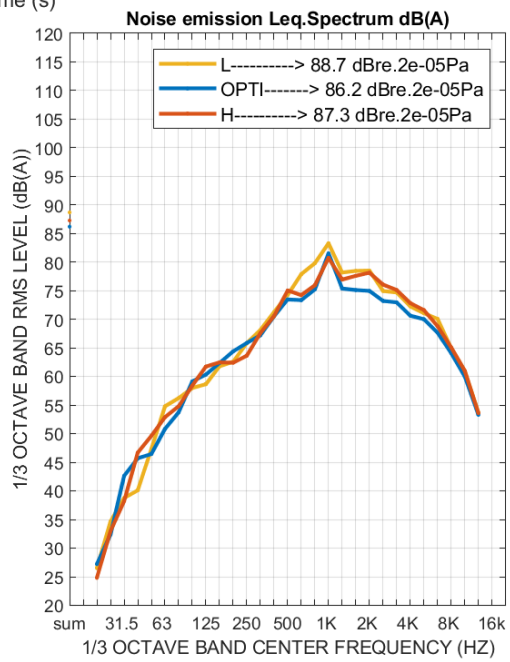
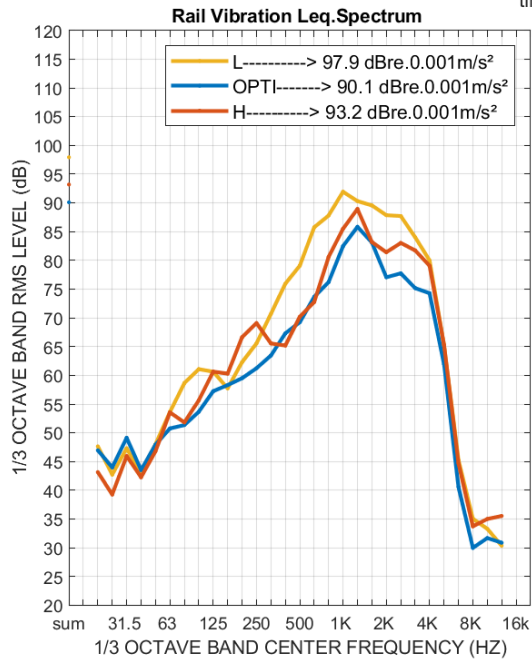
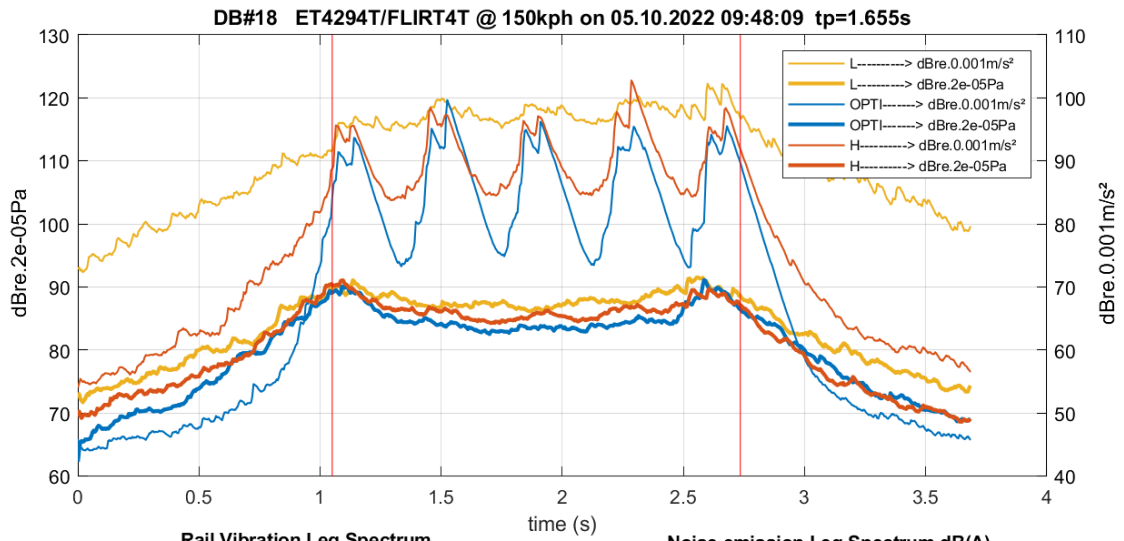
Rail Vibration Leq.Spectrum

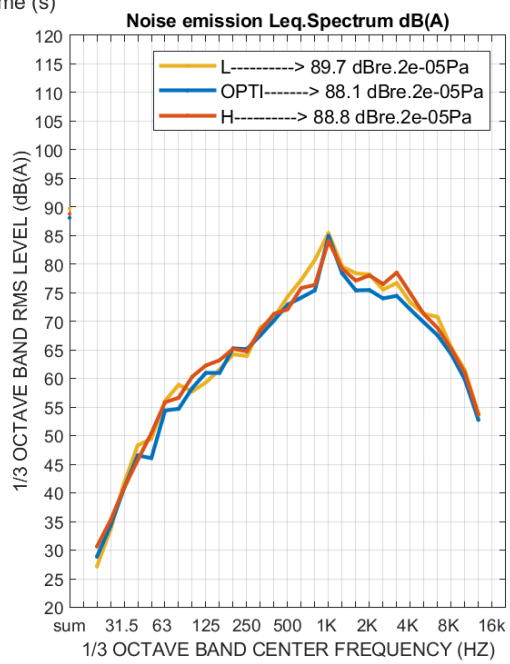
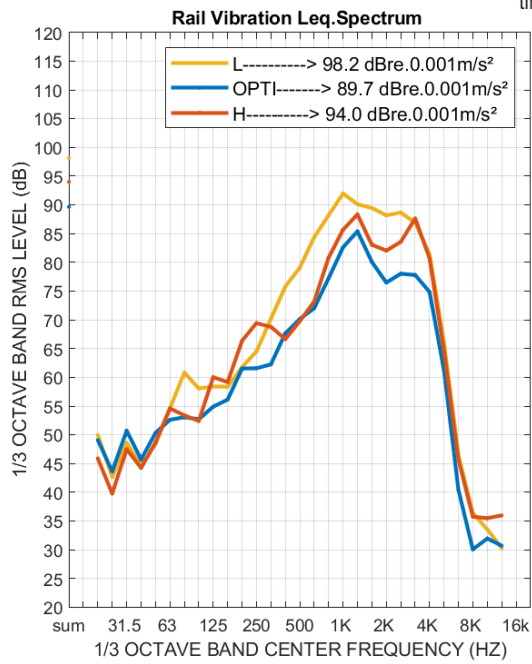
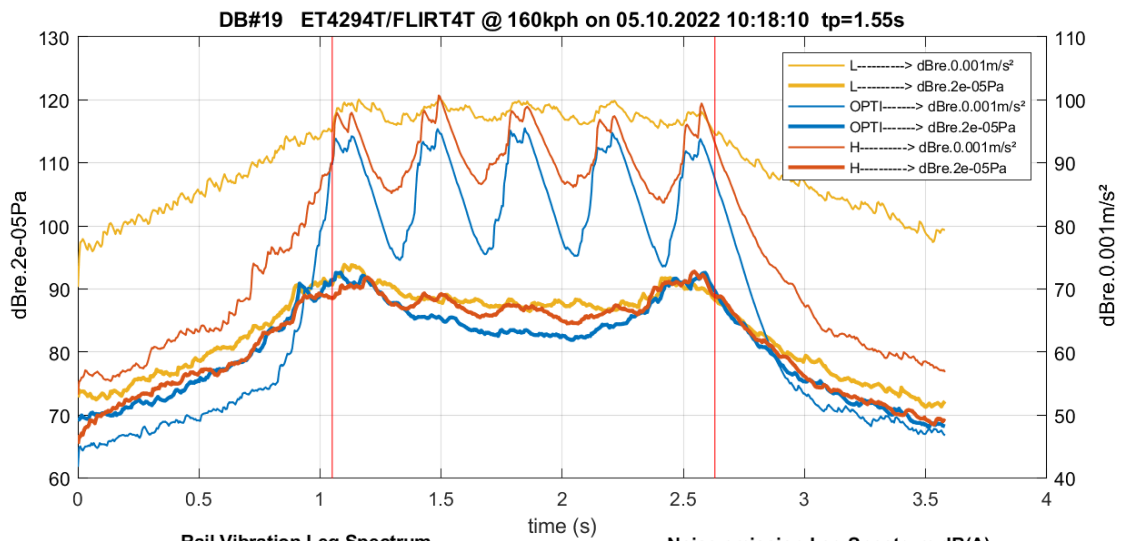


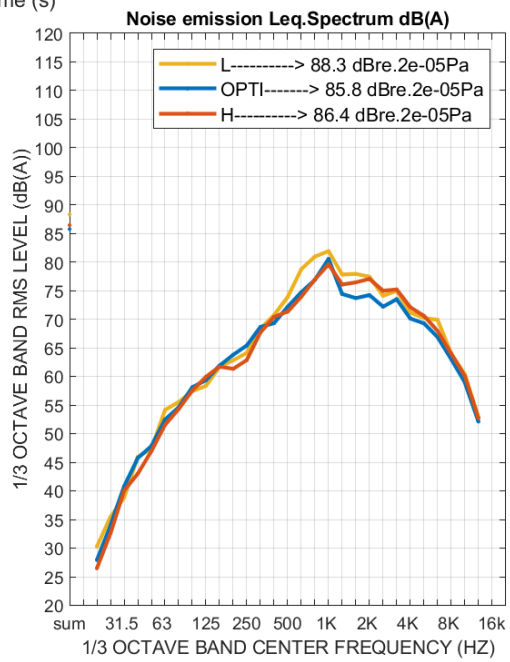
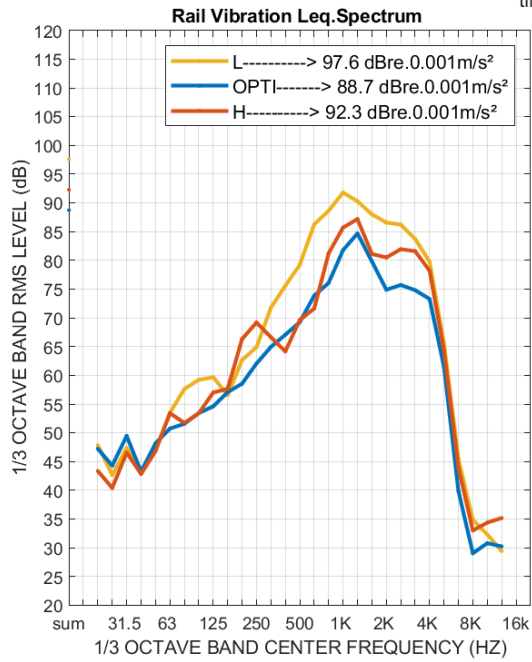
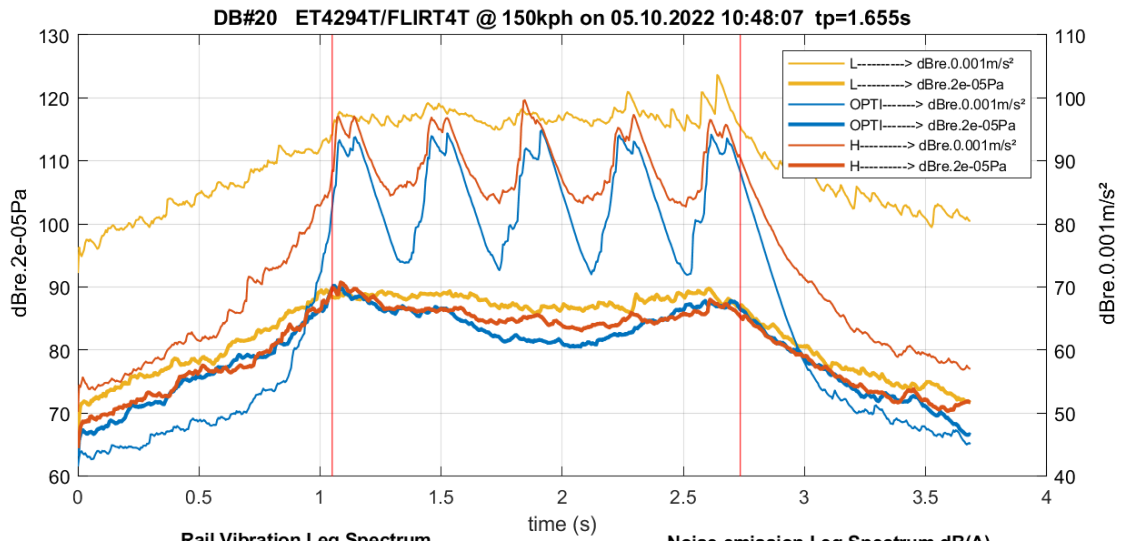
Noise emission Leq.Spectrum dB(A)

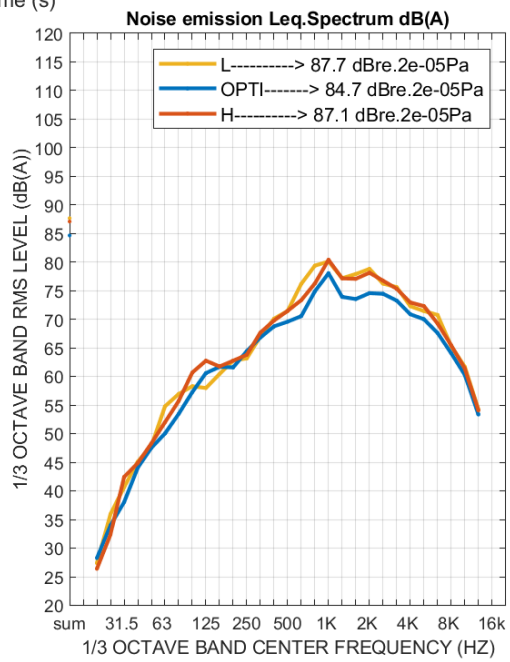
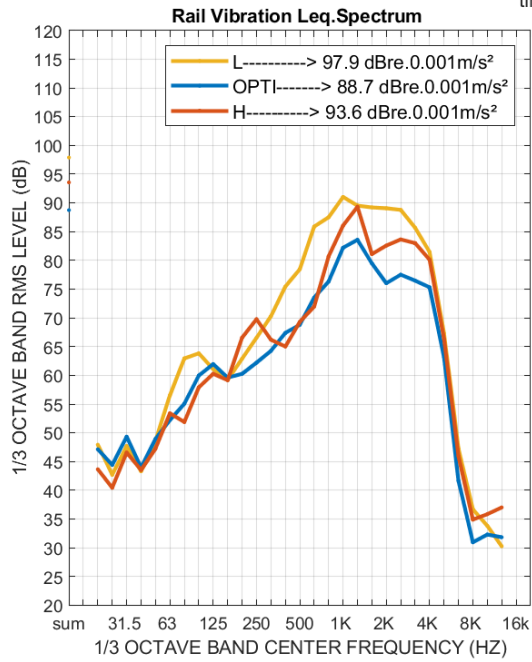
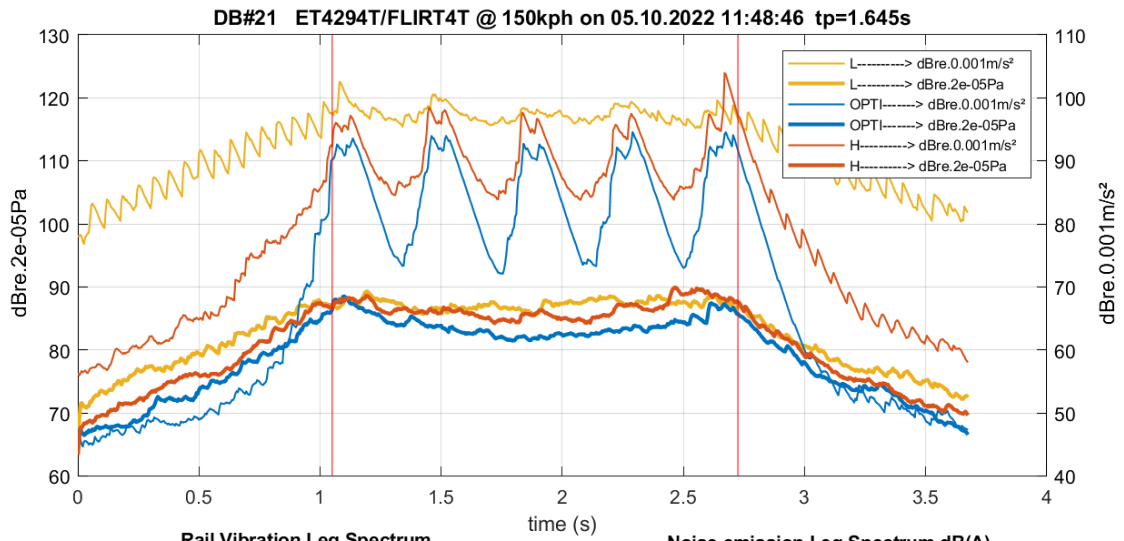




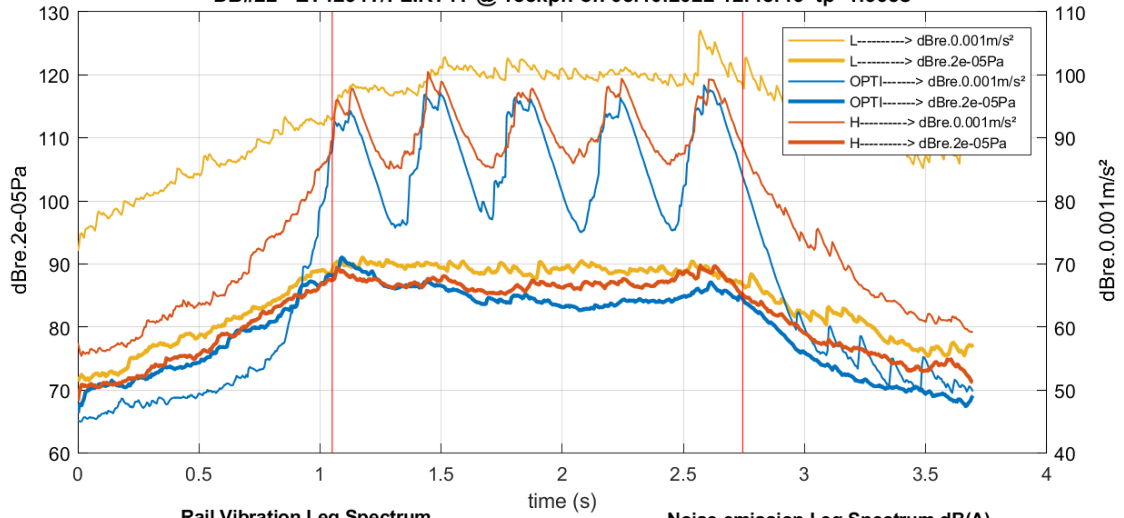




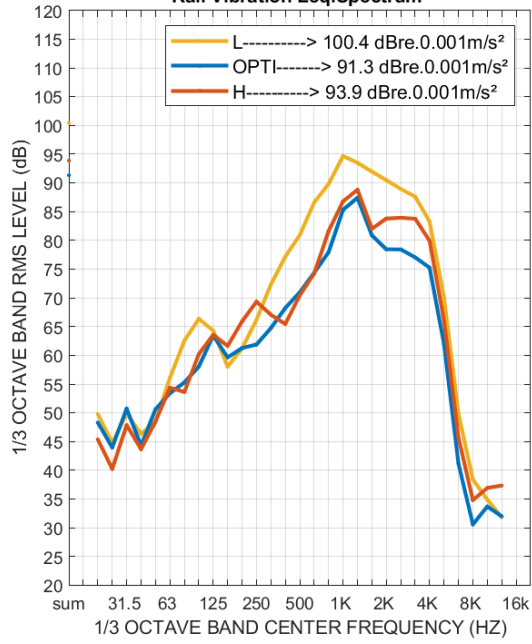




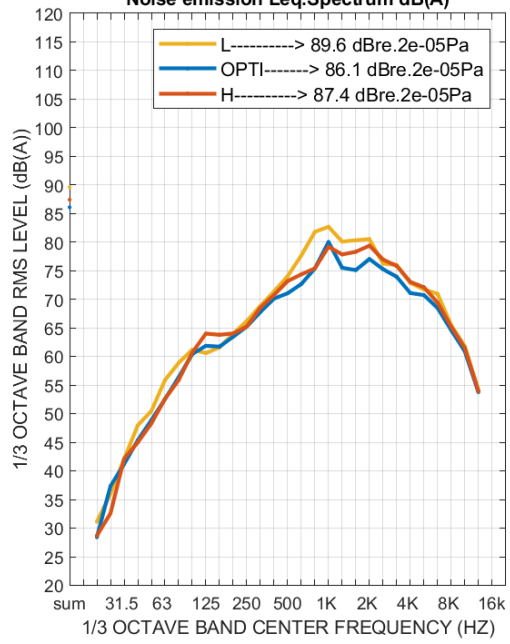
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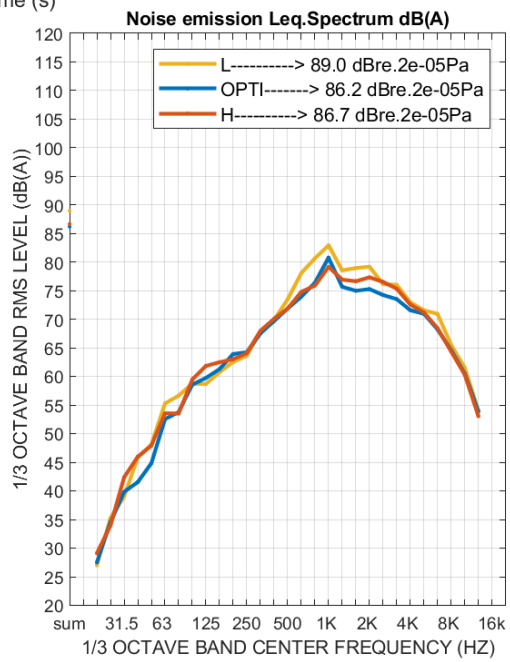
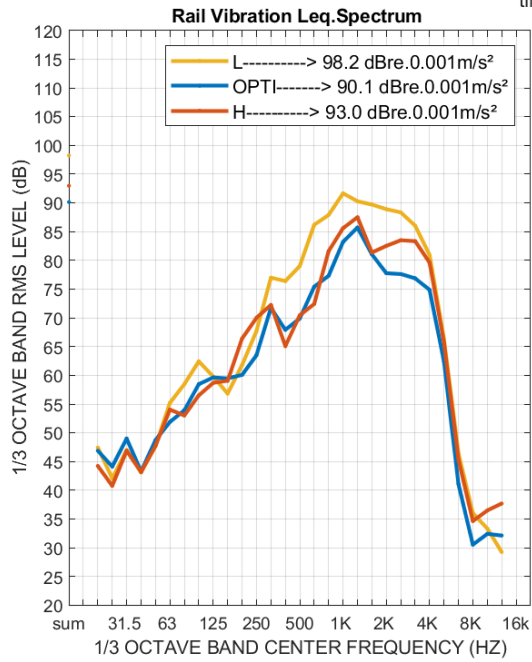
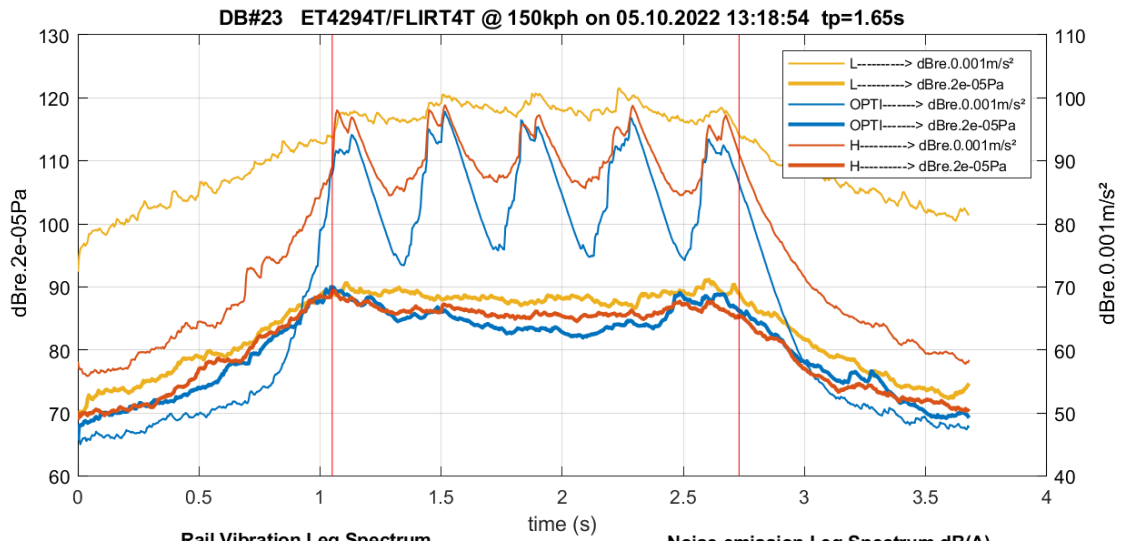


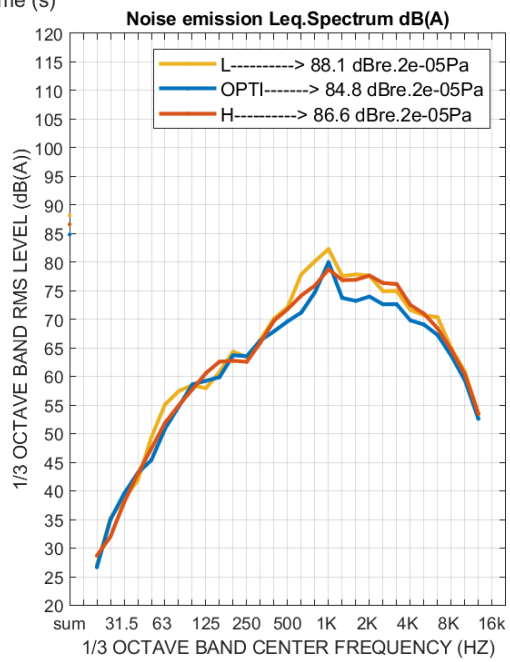
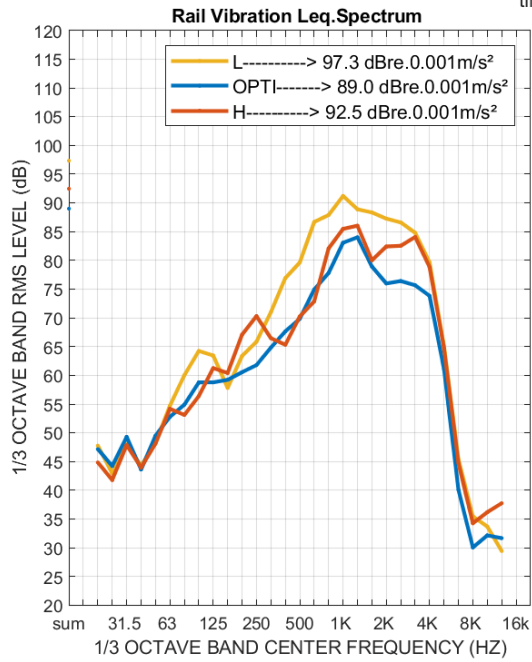
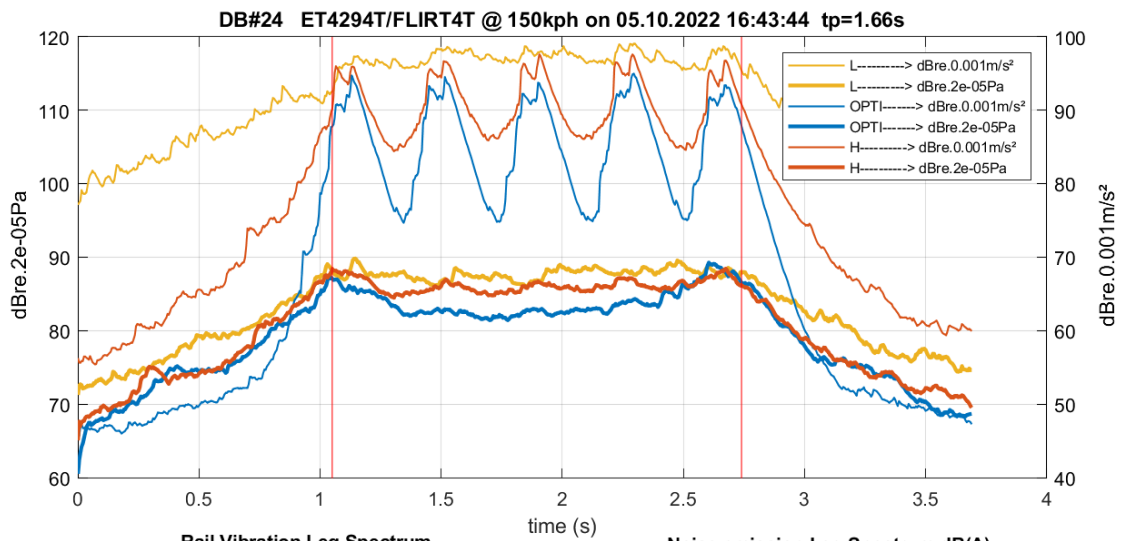
Rail Vibration Leq.Spectrum

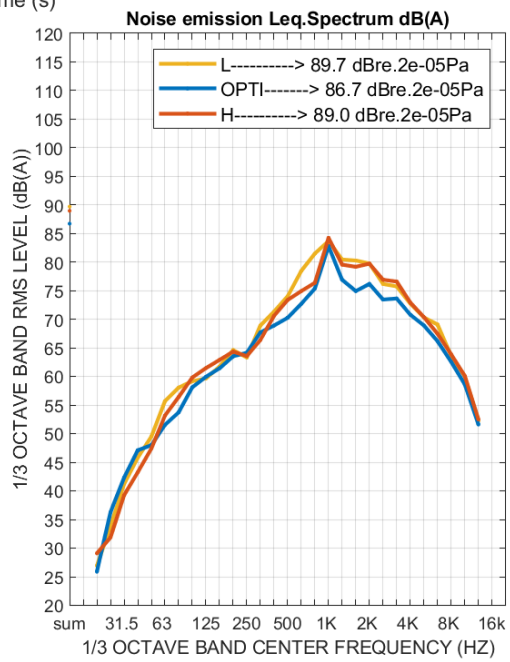
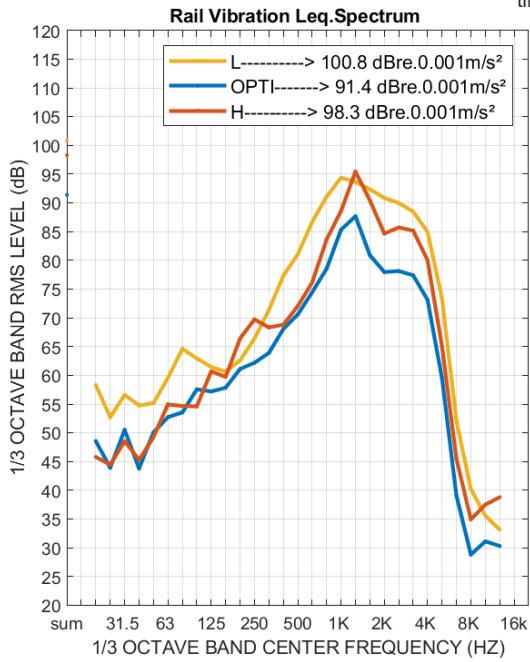
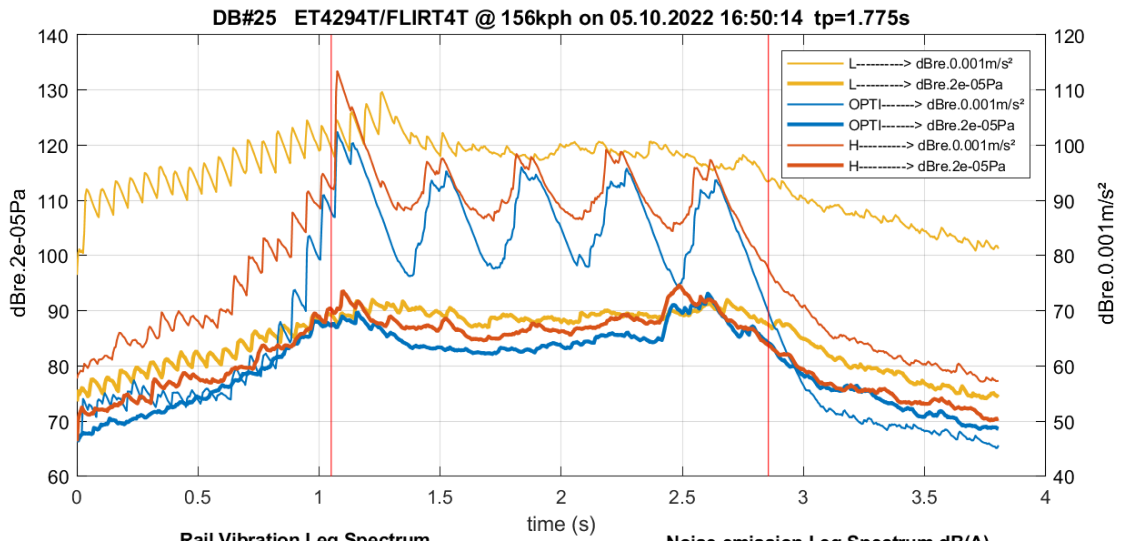


Noise emission Leq.Spectrum dB(A)

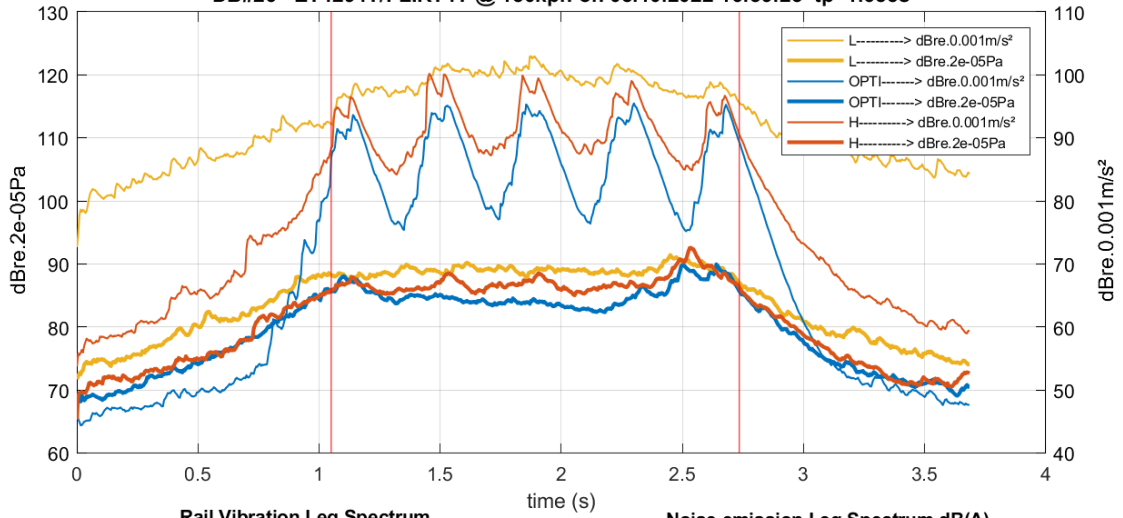




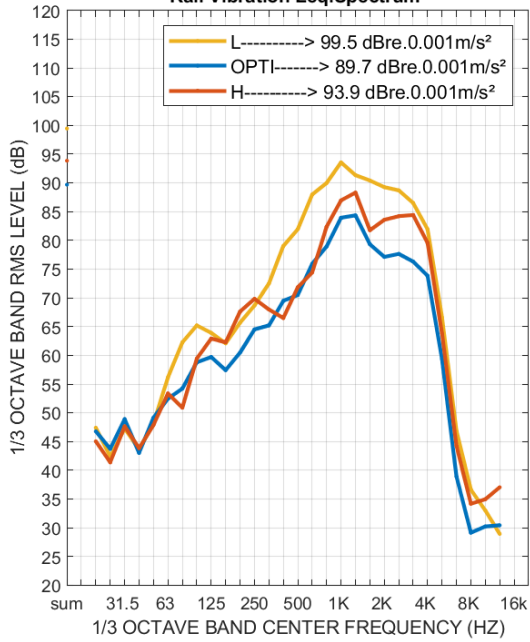




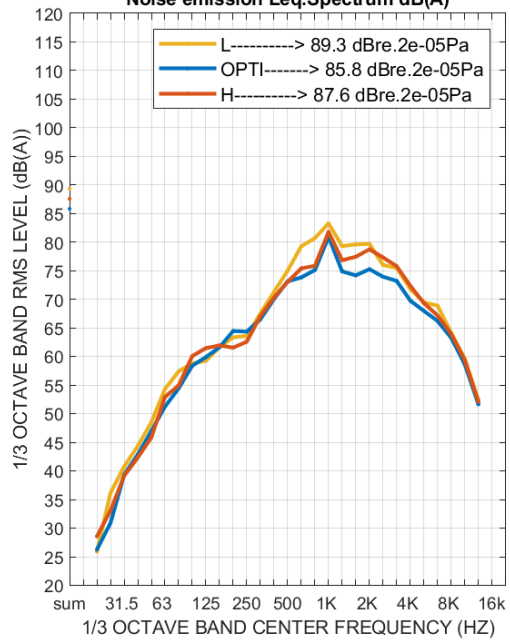
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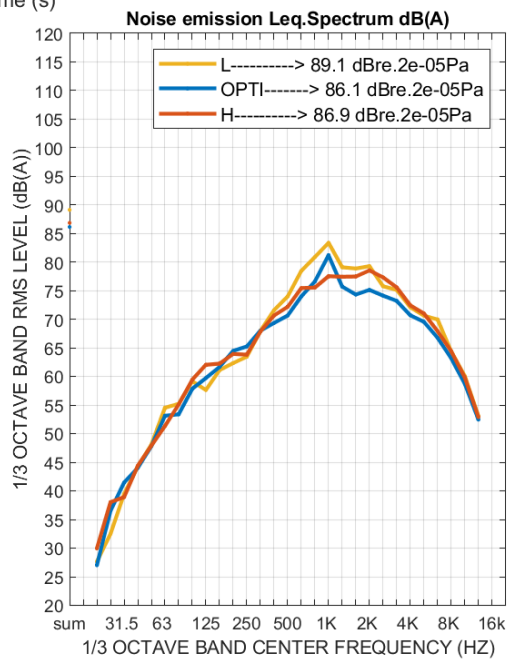
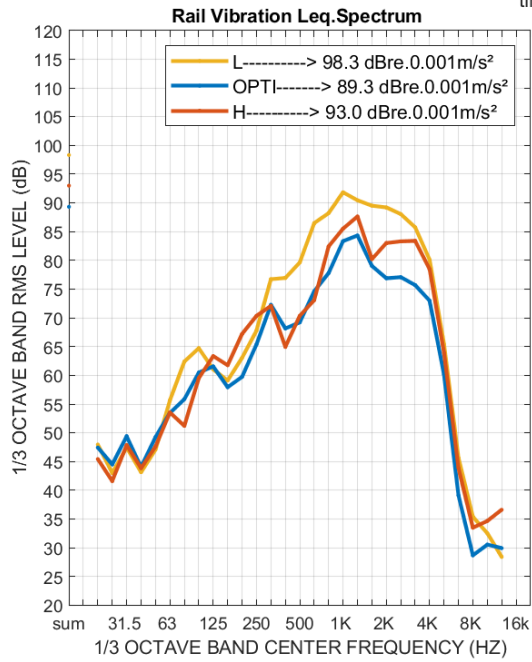
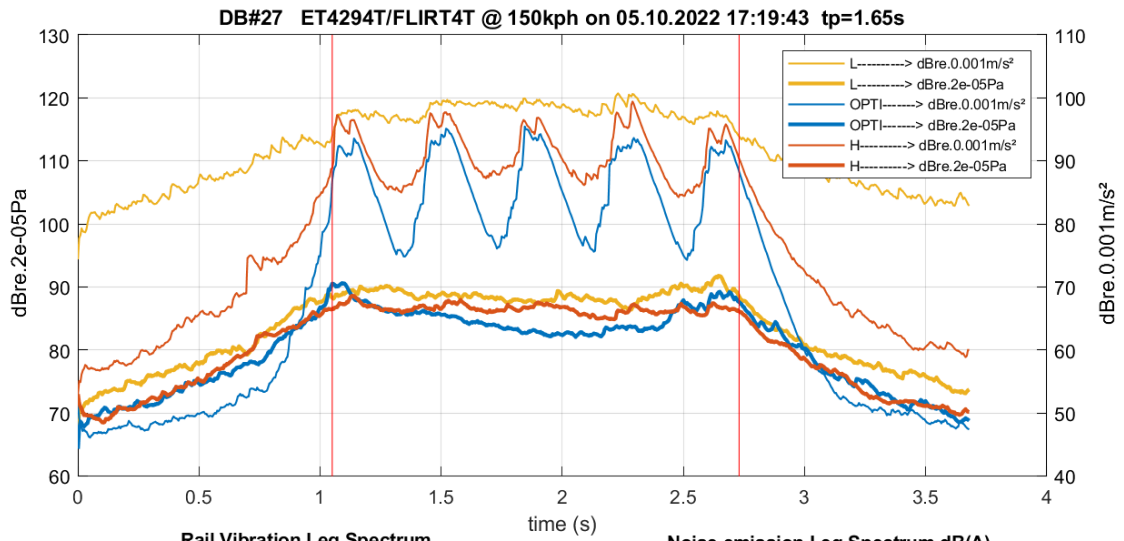


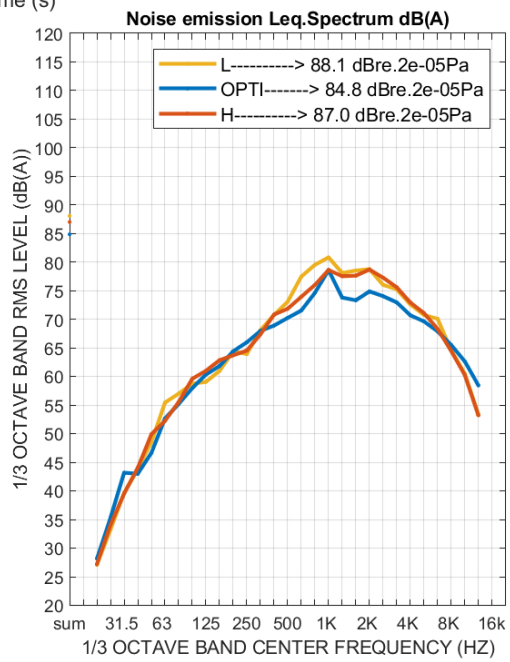
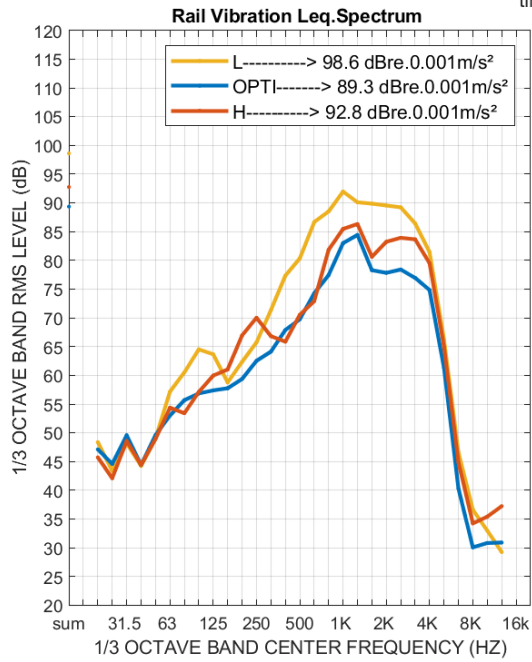
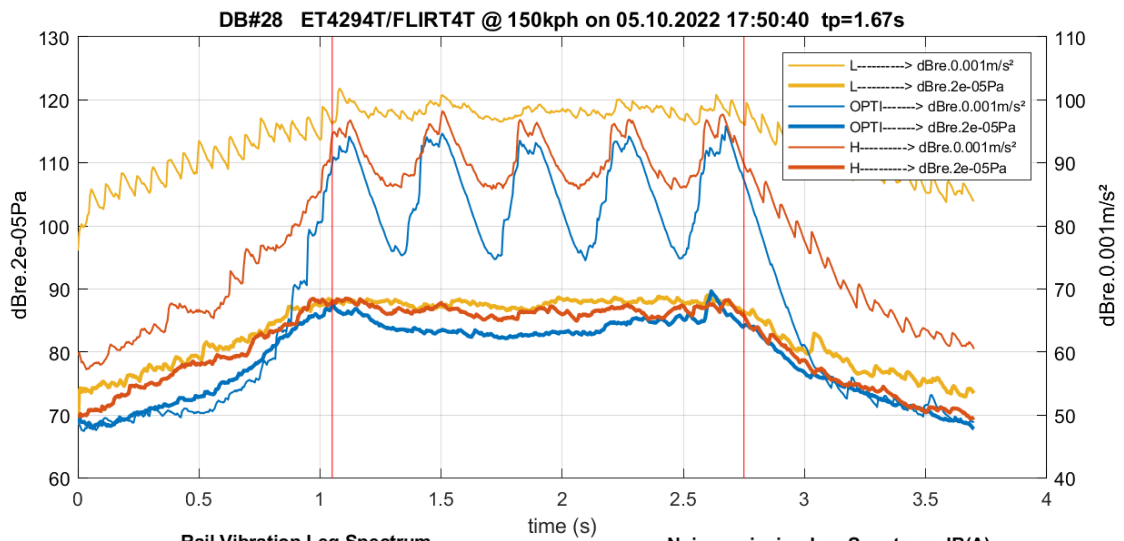
Rail Vibration Leq.Spectrum

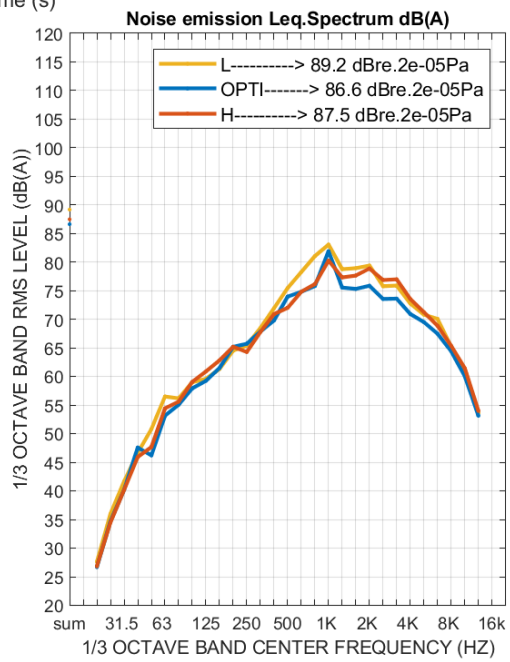
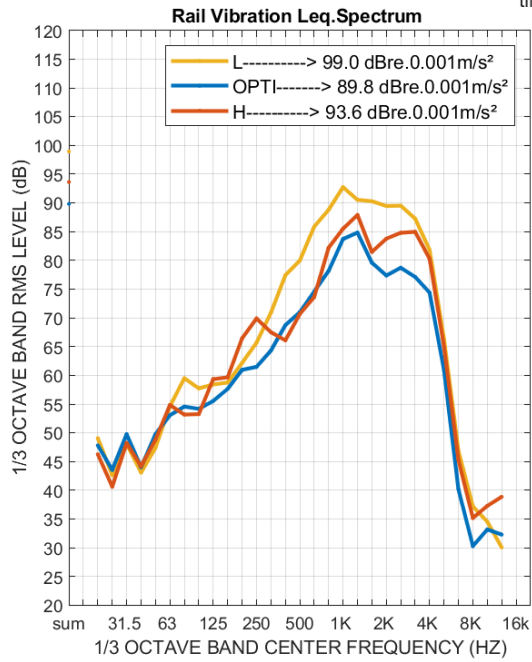
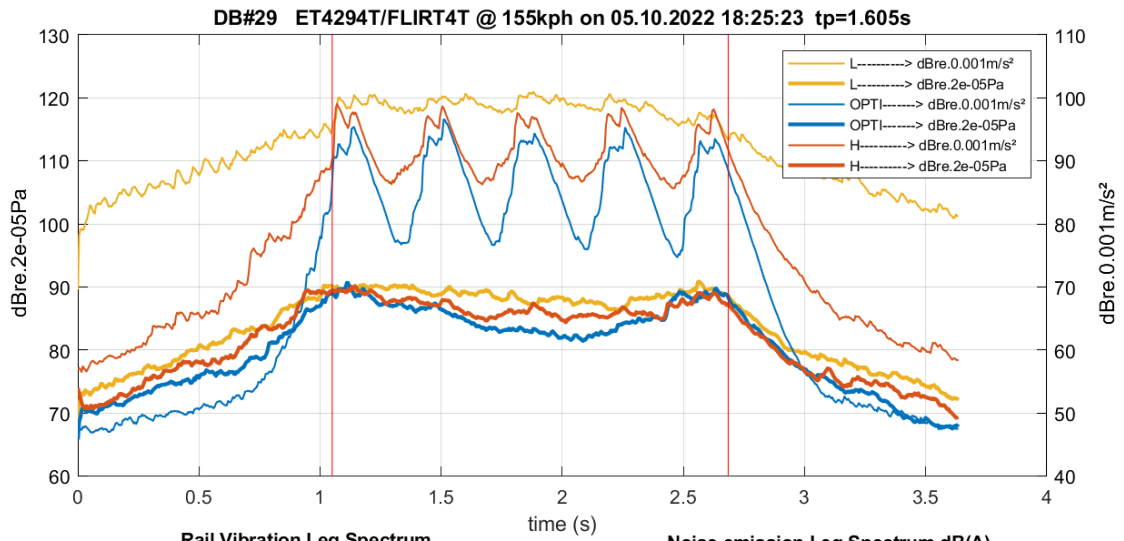


Noise emission Leq.Spectrum dB(A)

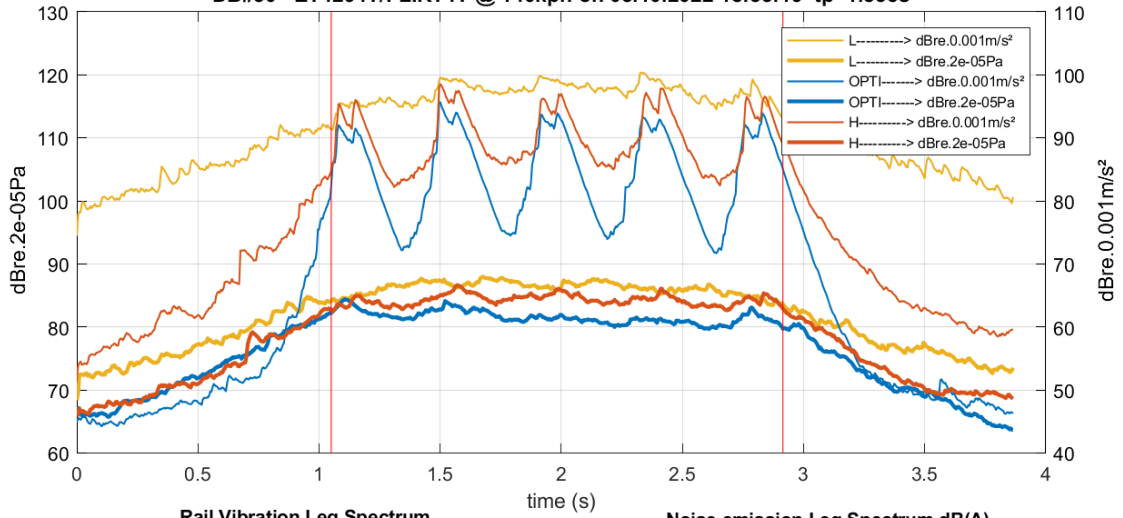




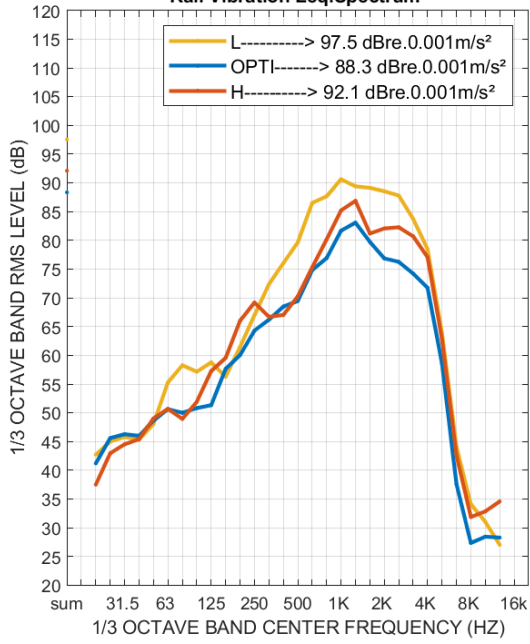




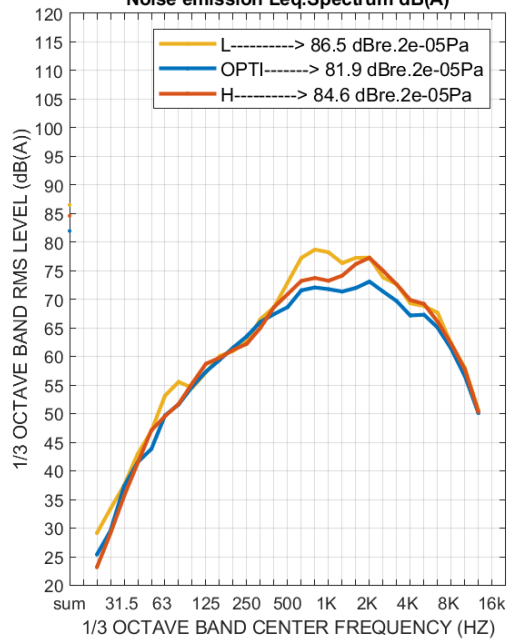
DB#30 ET4294T/FLIRT4T @ 140kph on 05.10.2022 18:53:19 tp=1.835s

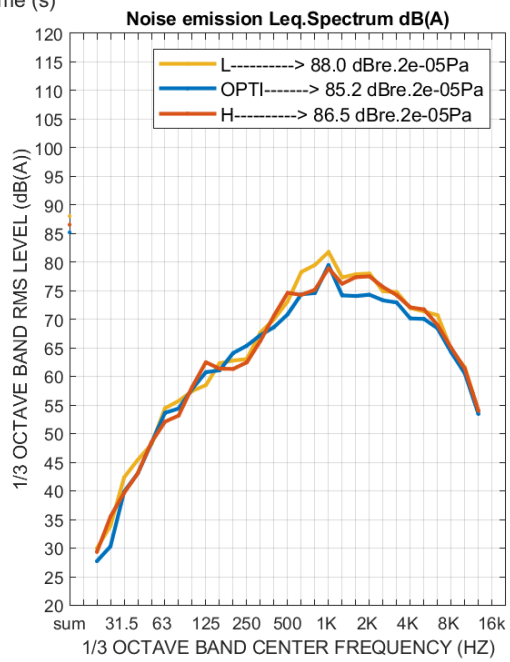
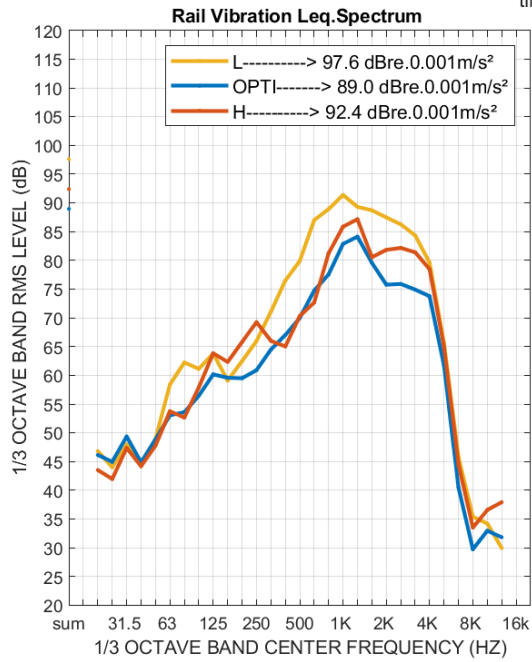
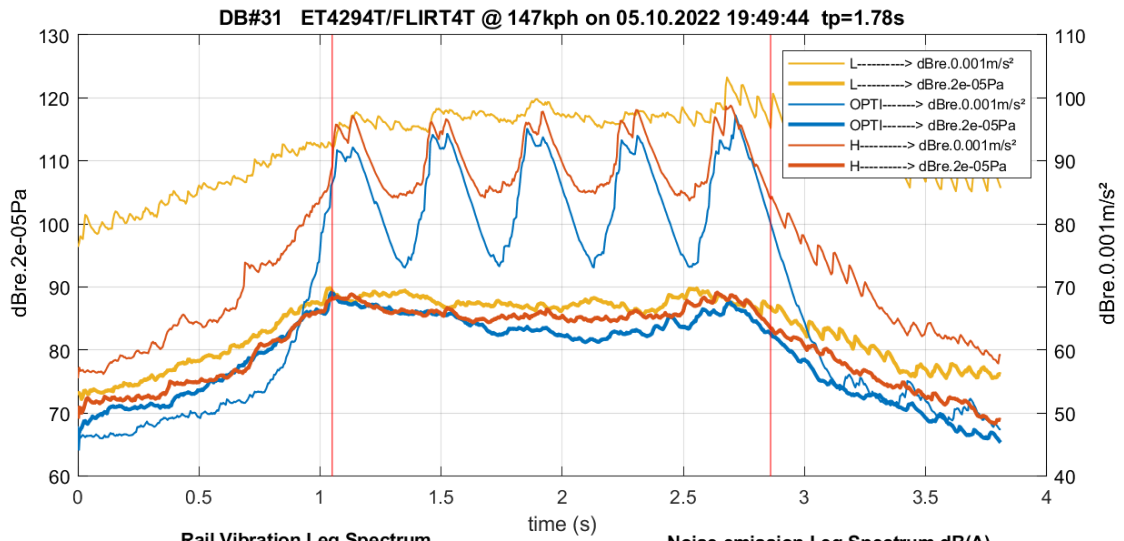


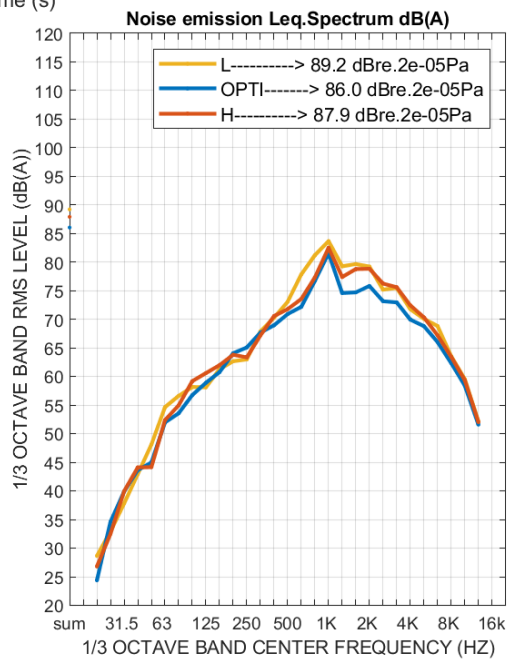
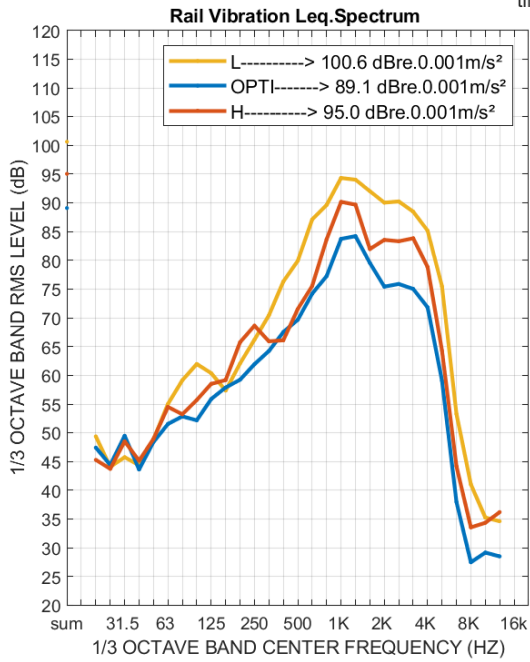
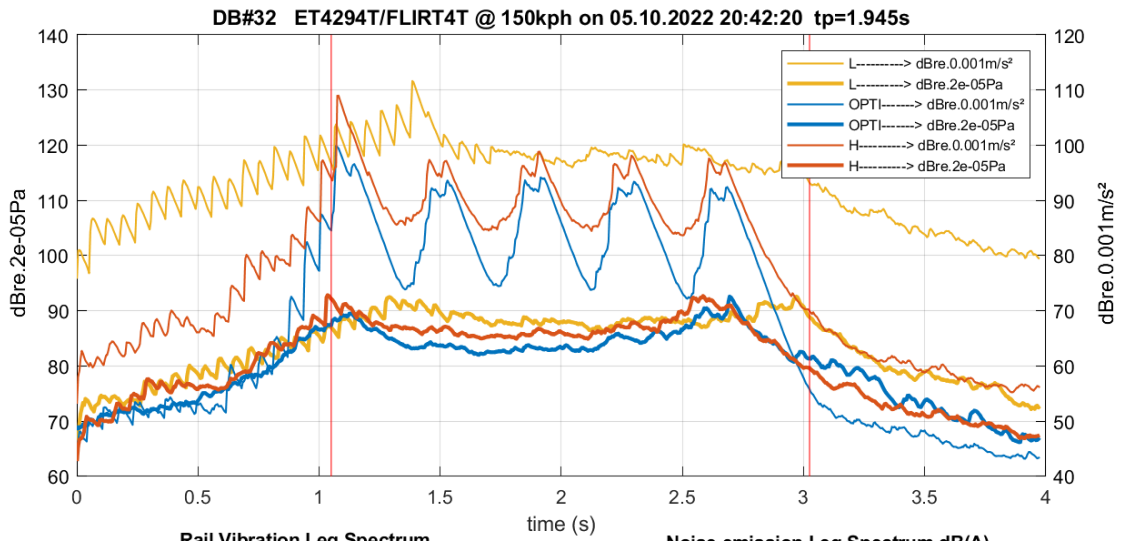
Rail Vibration Leq.Spectrum

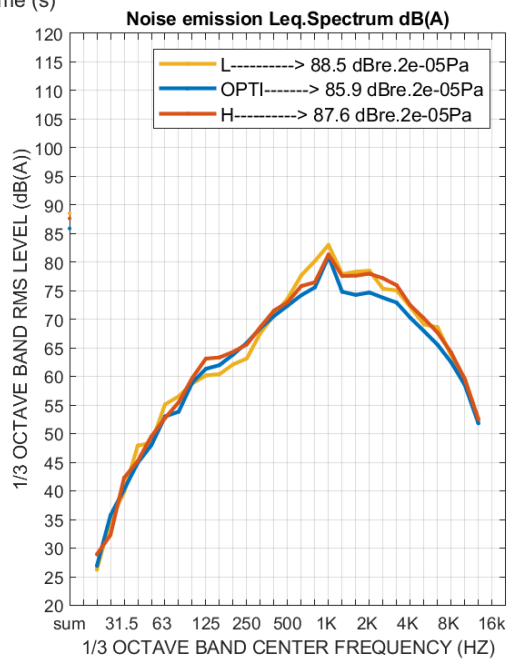
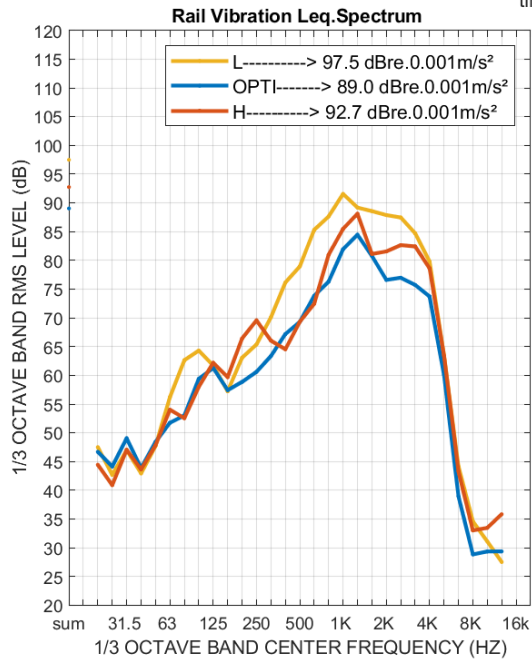
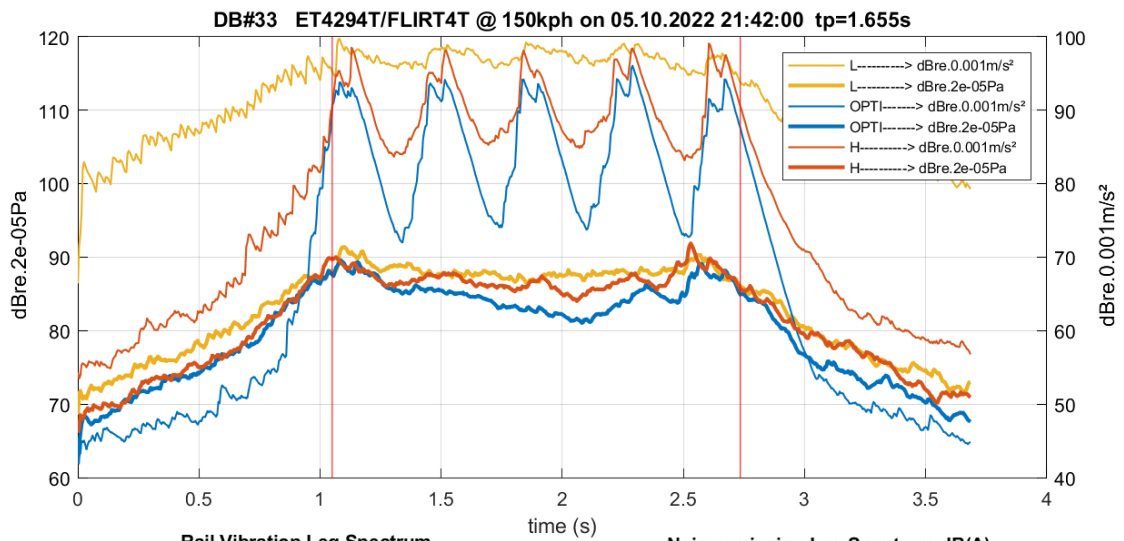


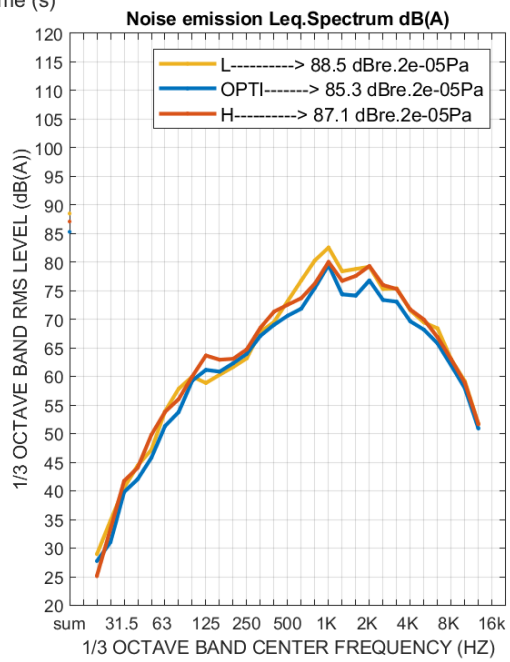
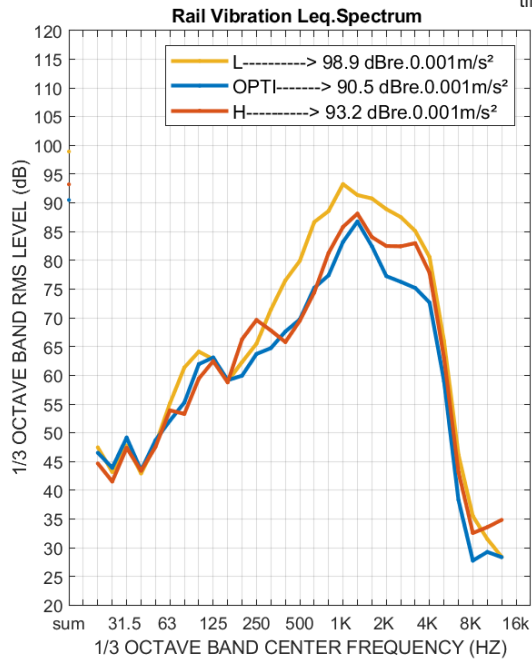
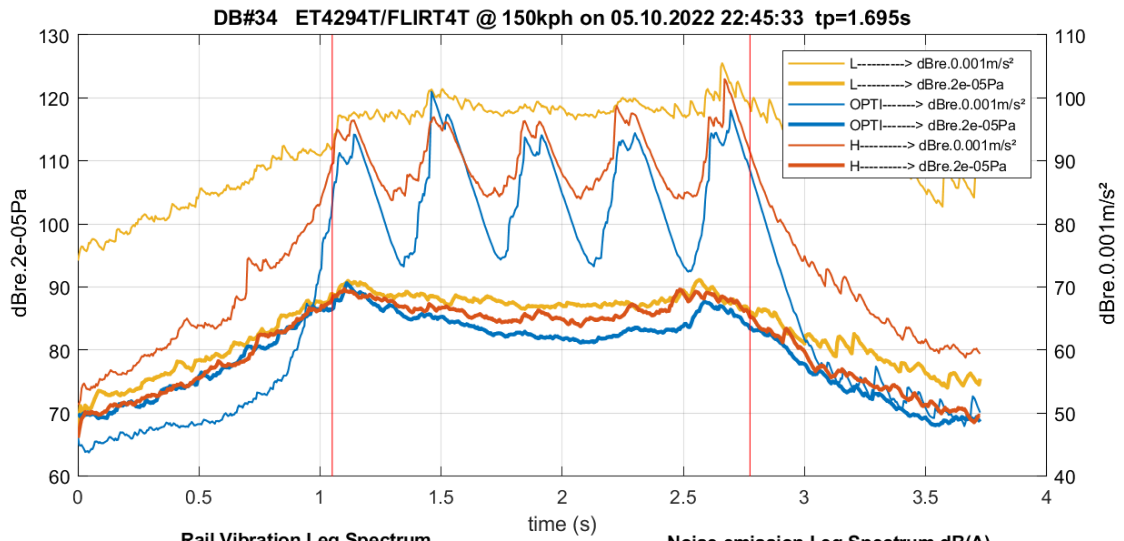
Noise emission Leq.Spectrum dB(A)

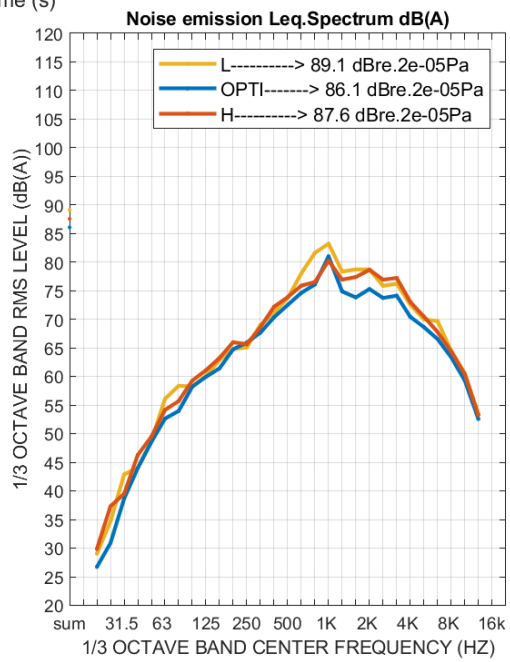
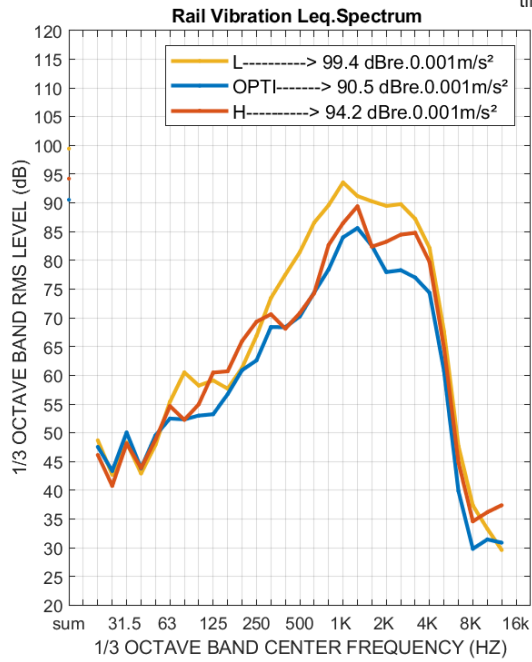
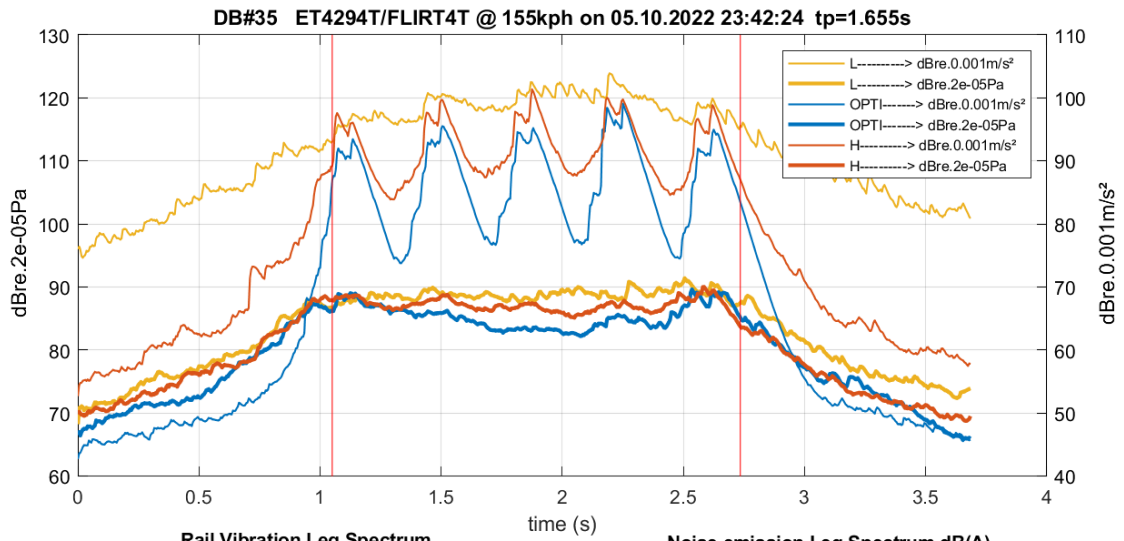




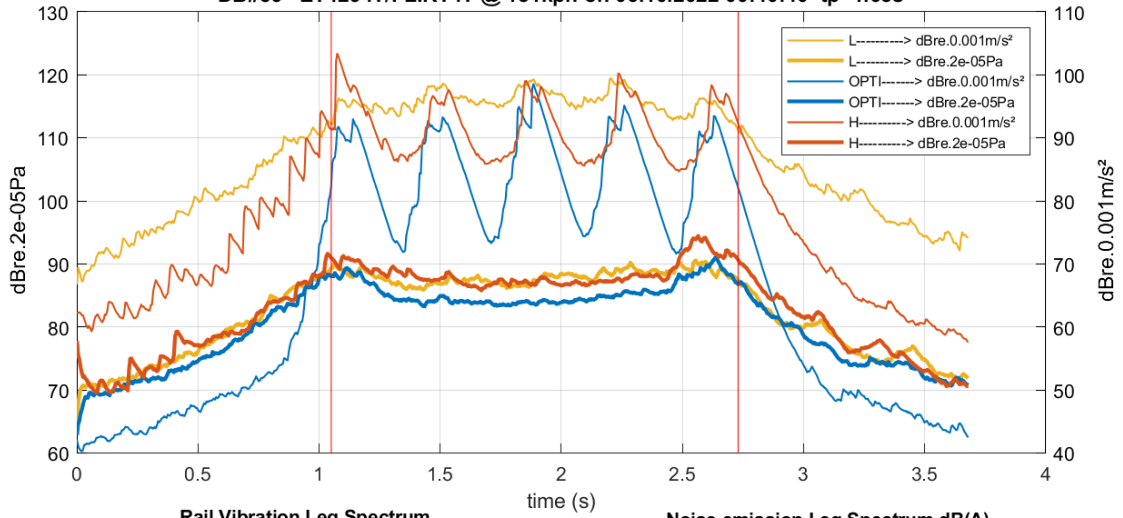




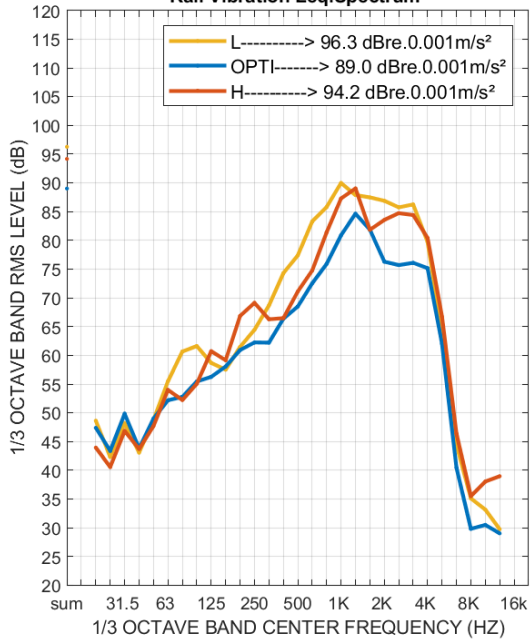




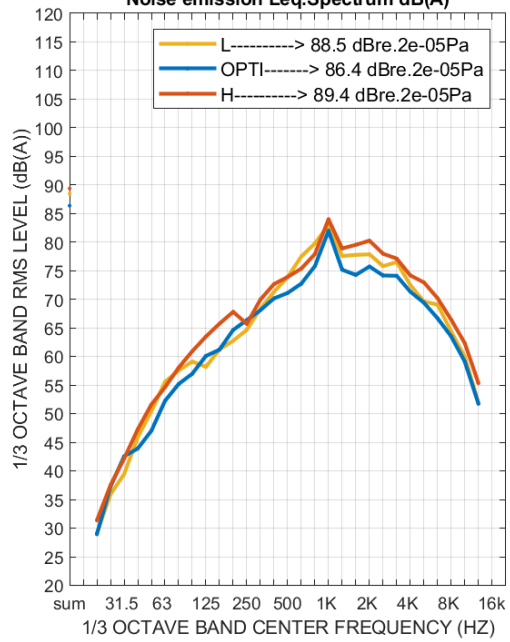
DB#36 ET4294T/FLIRT4T @ 151kph on 06.10.2022 00:40:40 tp=1.65s

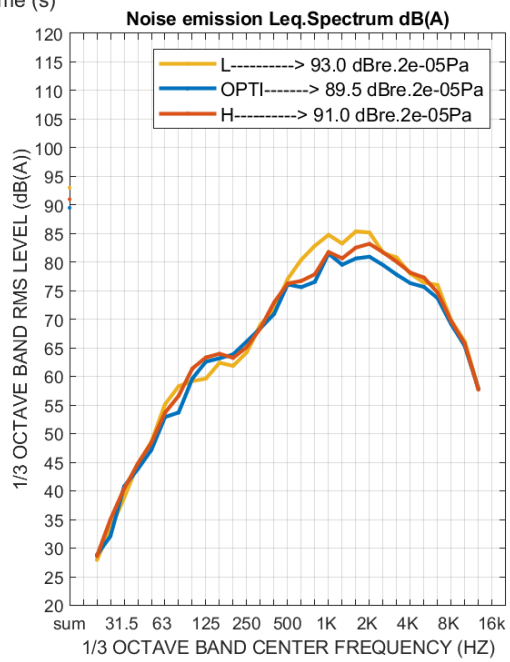
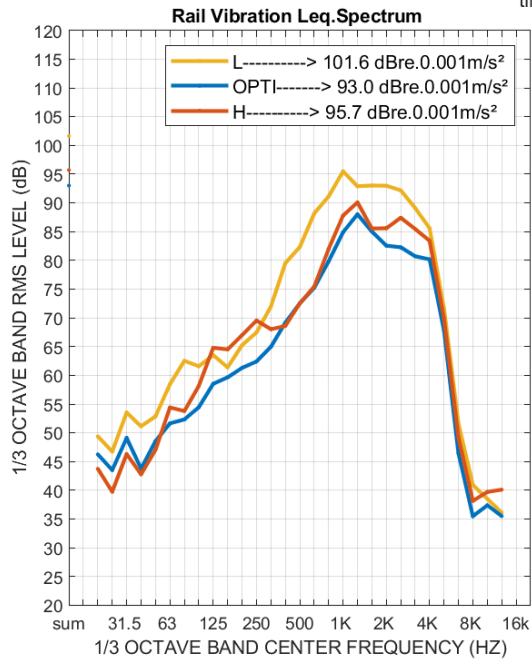
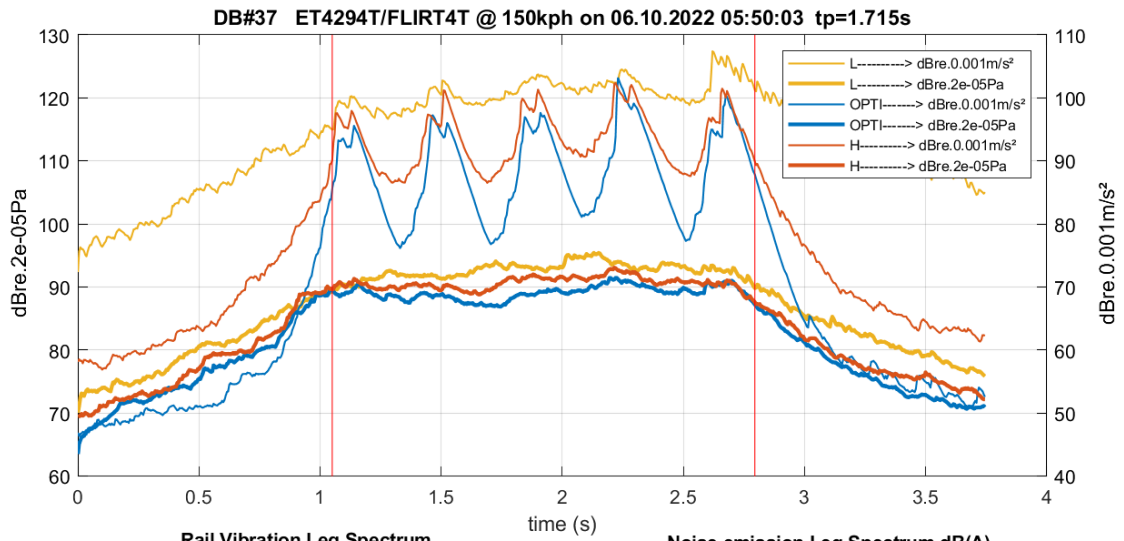


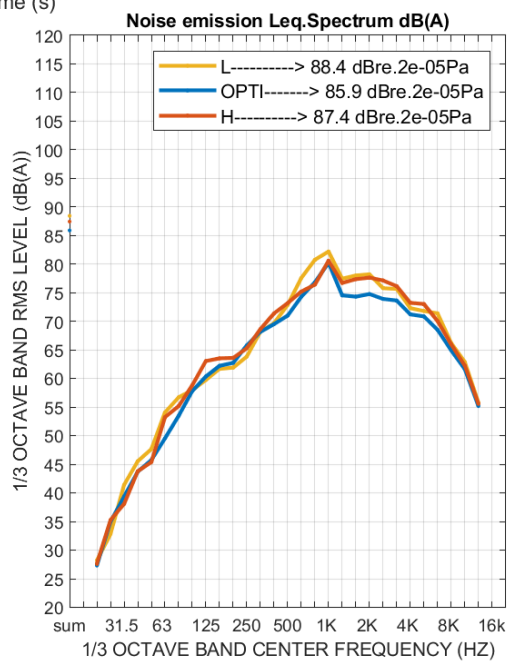
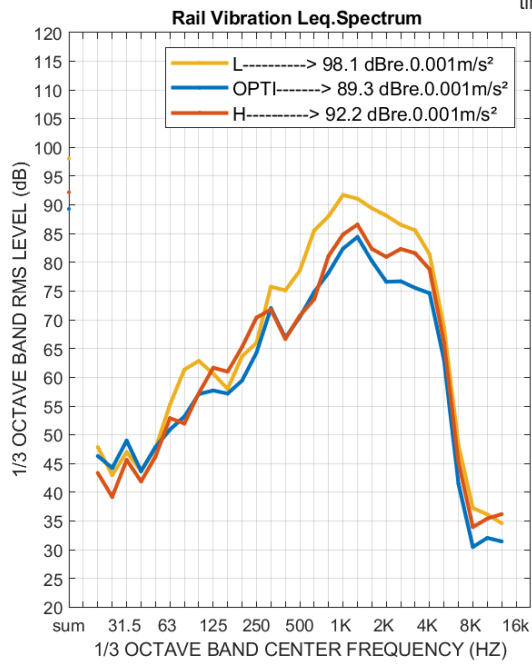
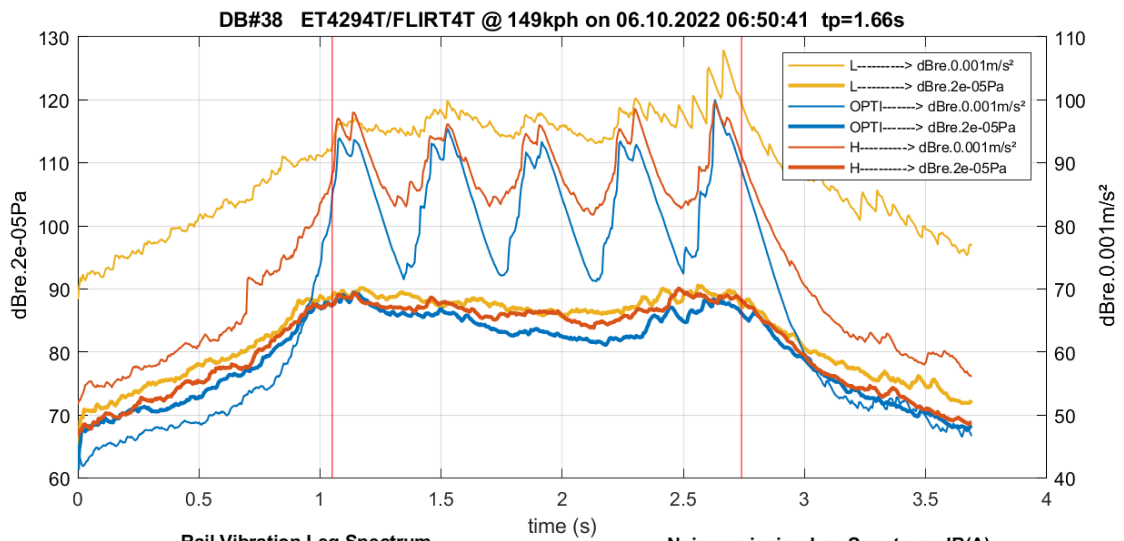
Rail Vibration Leq.Spectrum

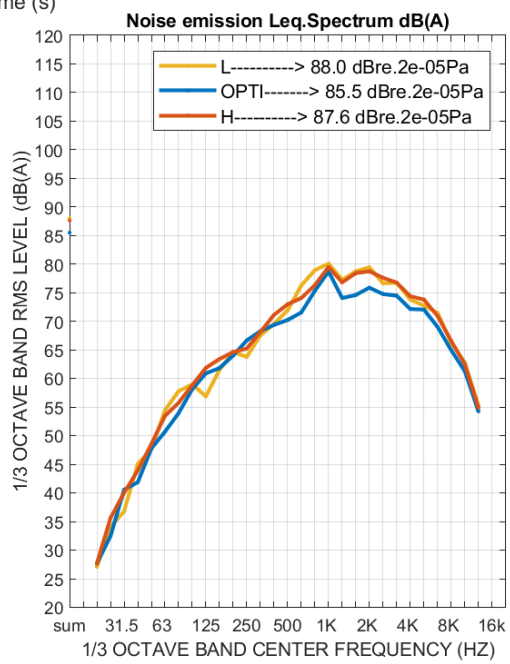
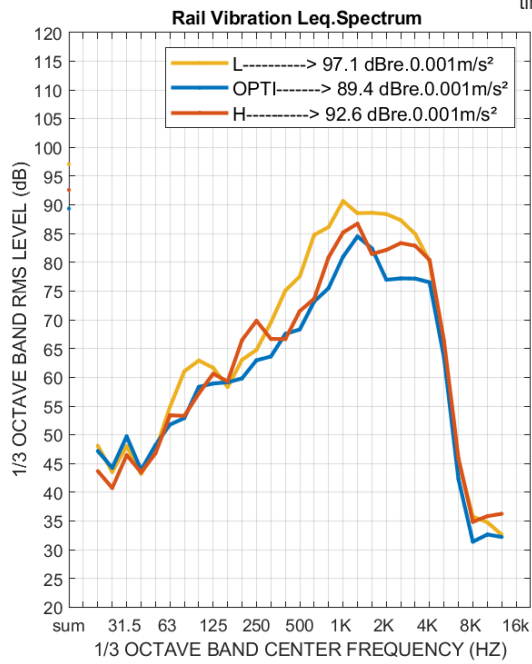
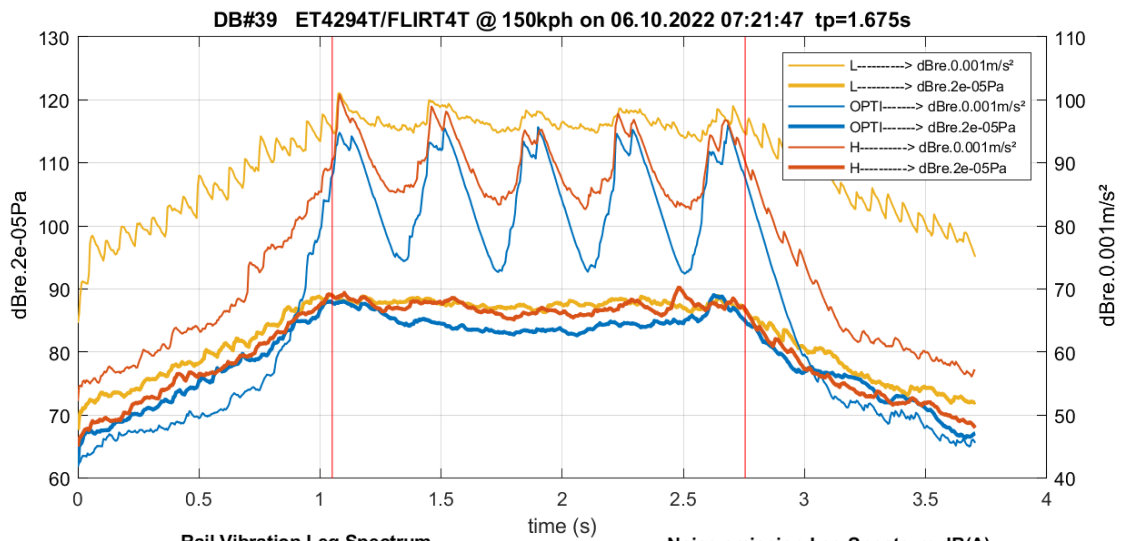


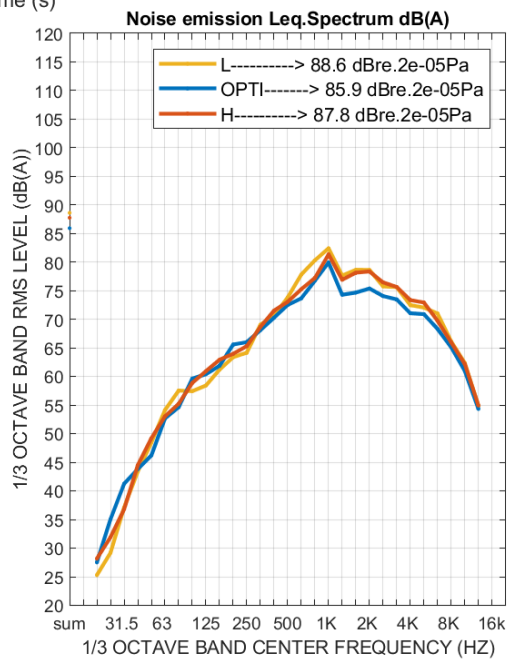
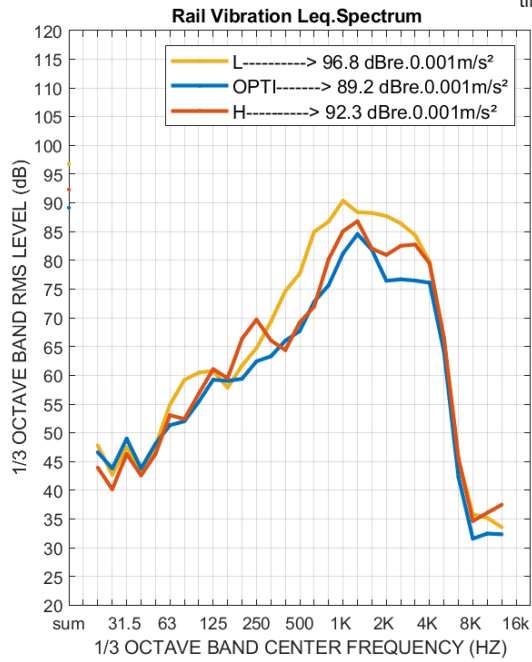
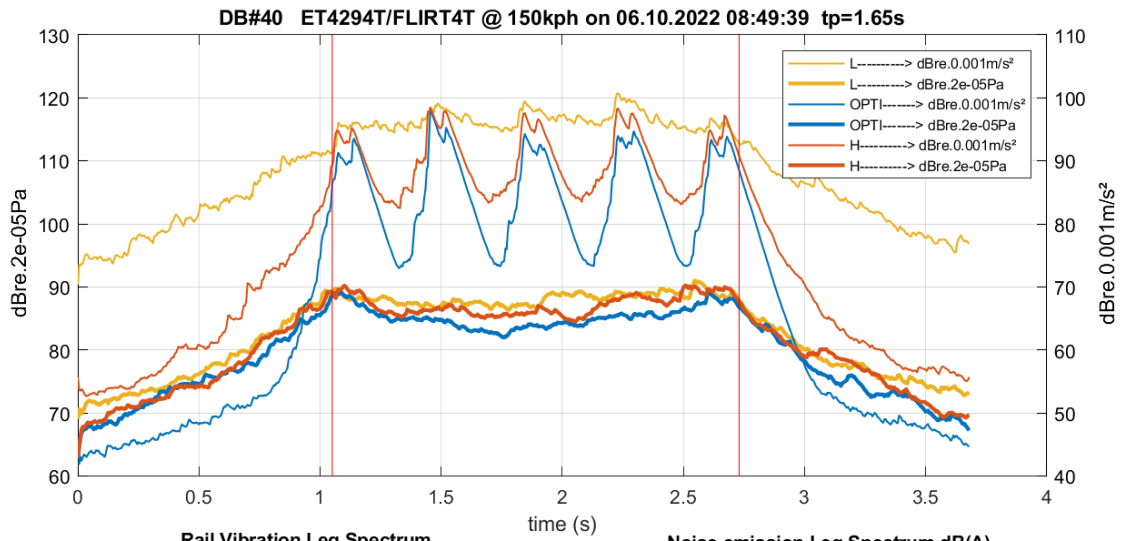
Noise emission Leq.Spectrum dB(A)

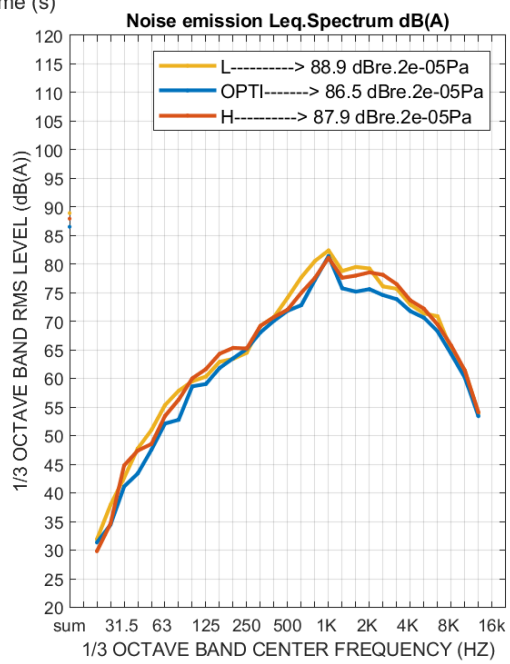
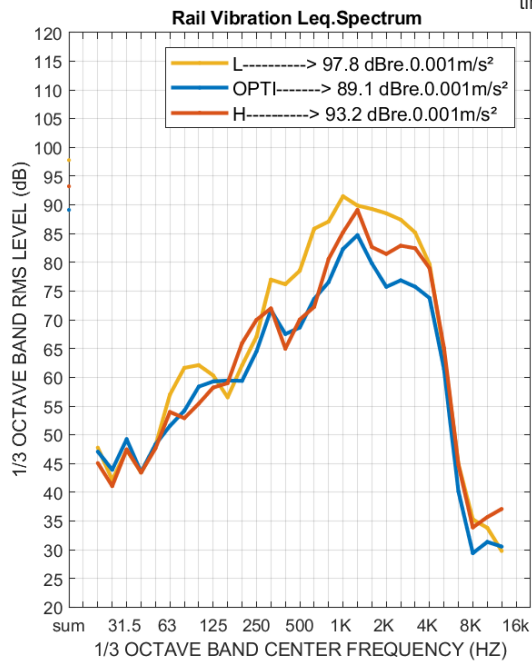
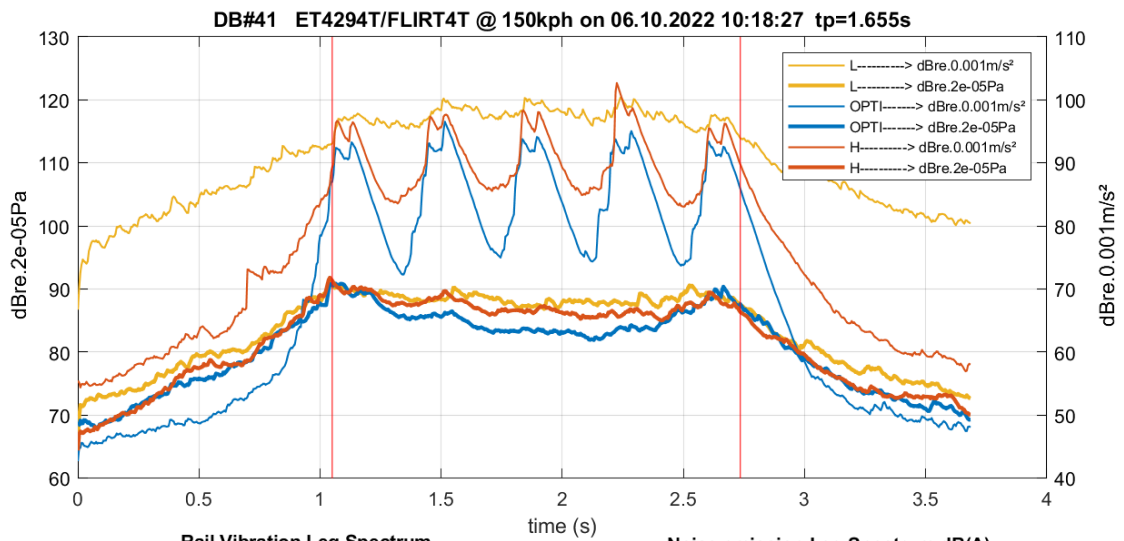


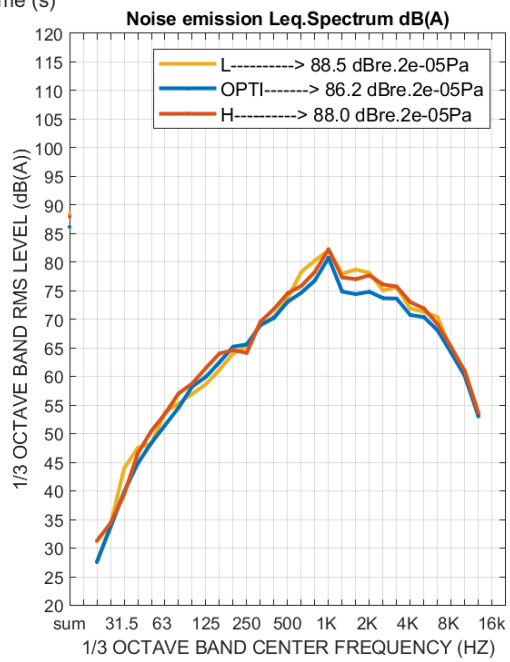
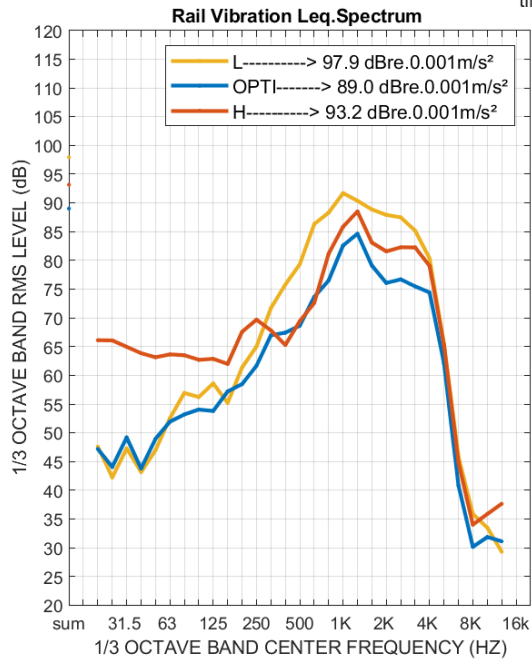
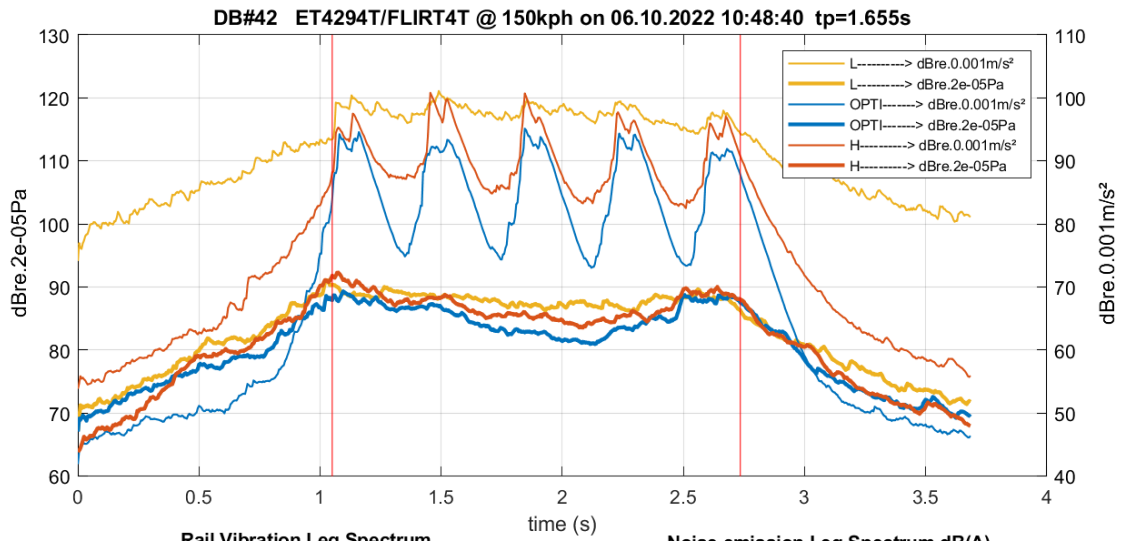


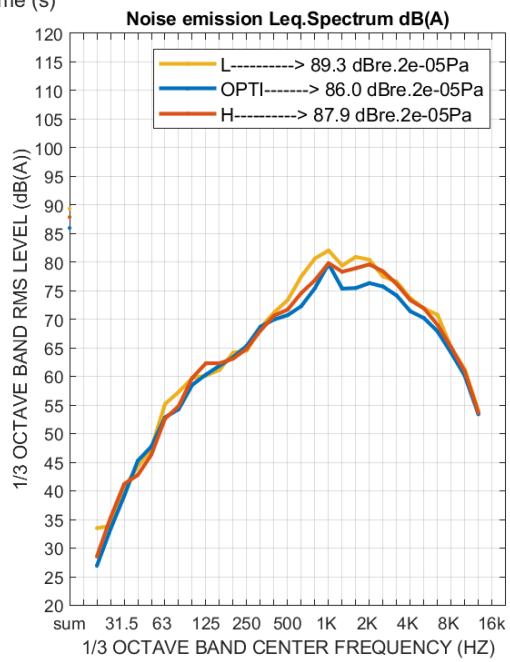
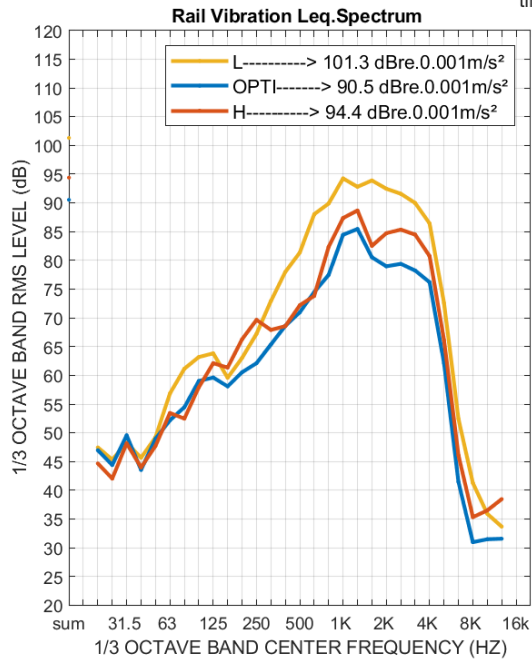
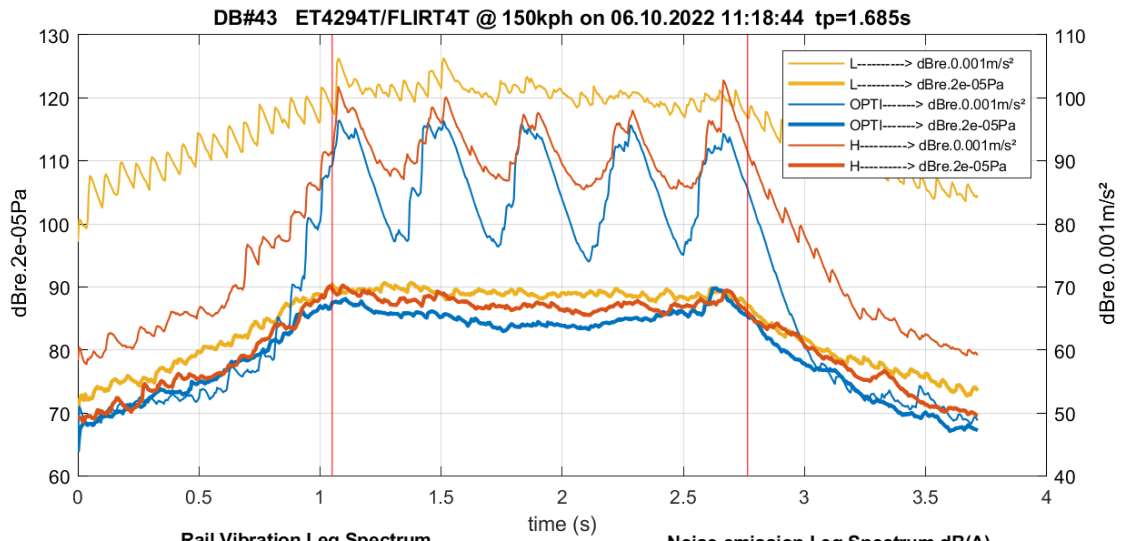


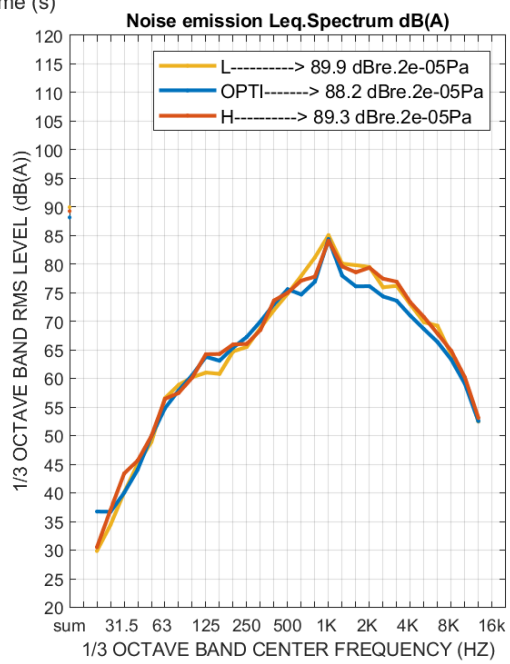
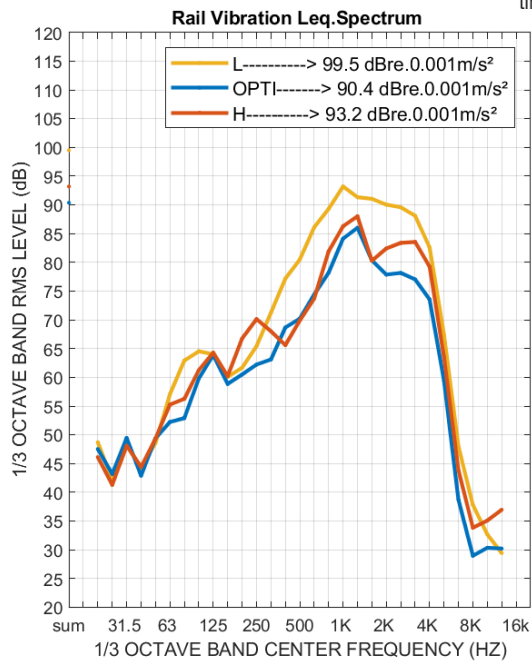
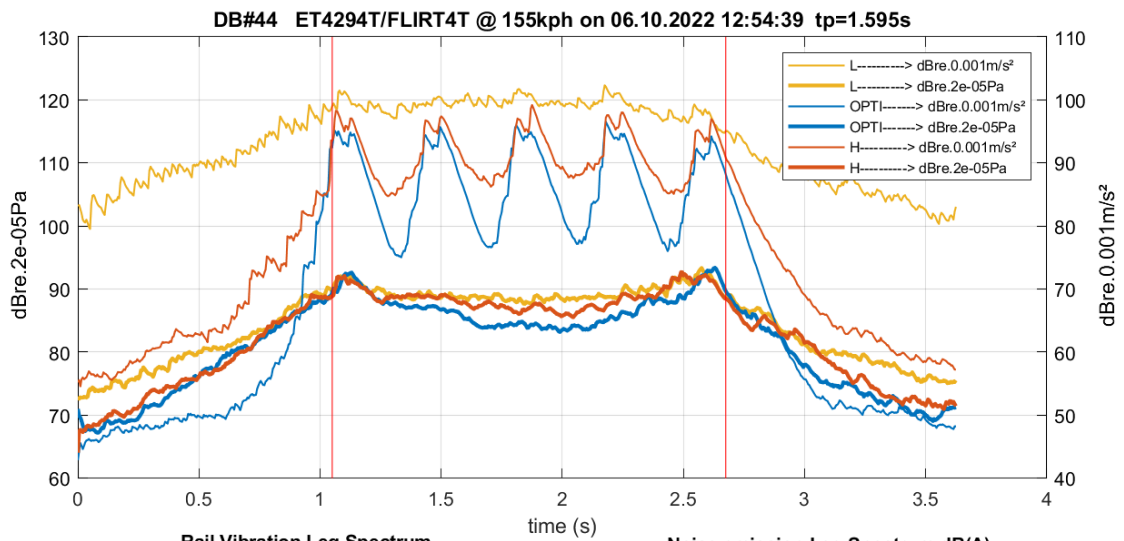


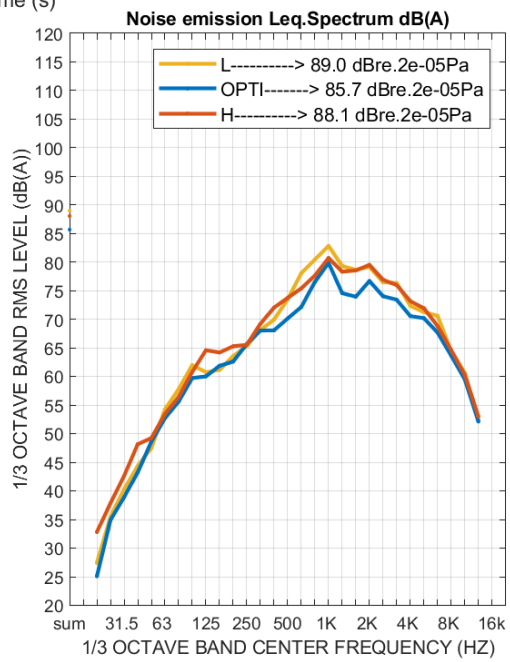
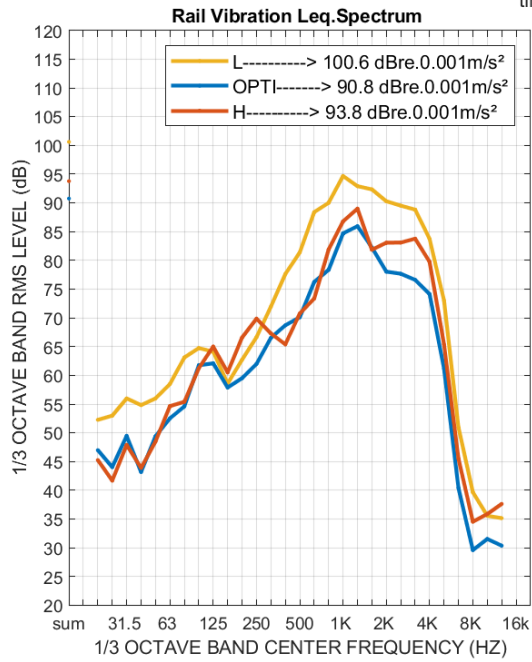
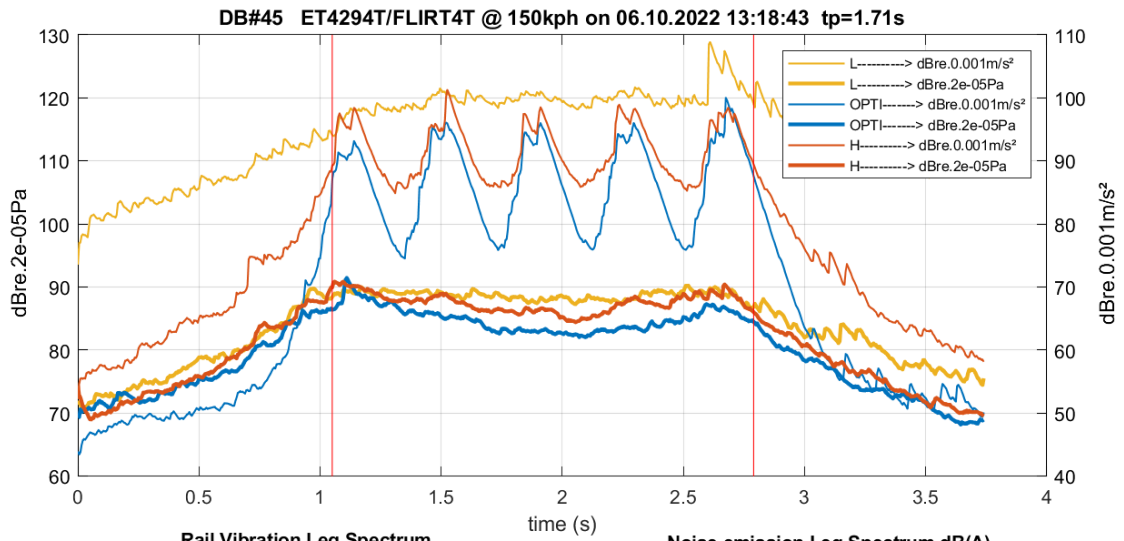


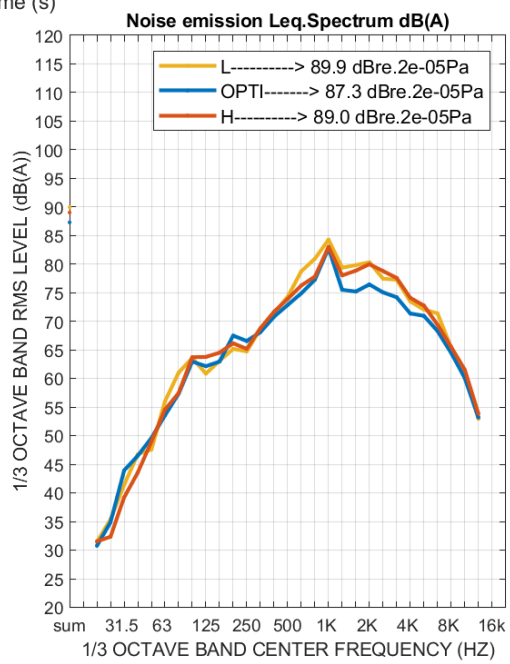
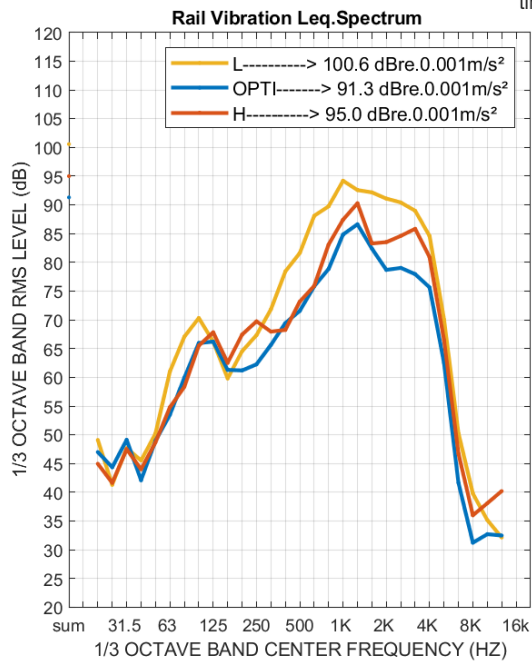
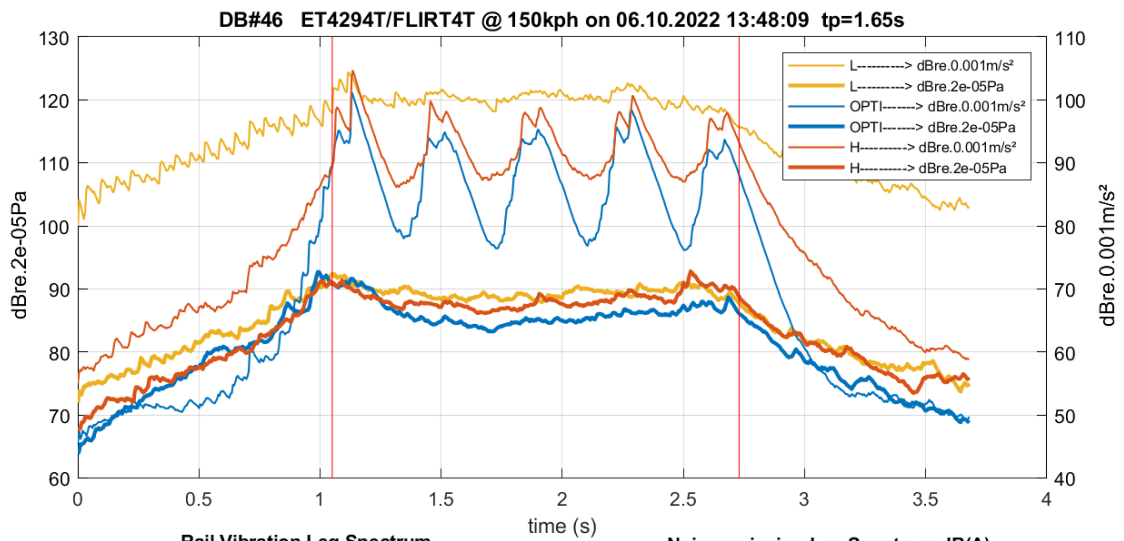


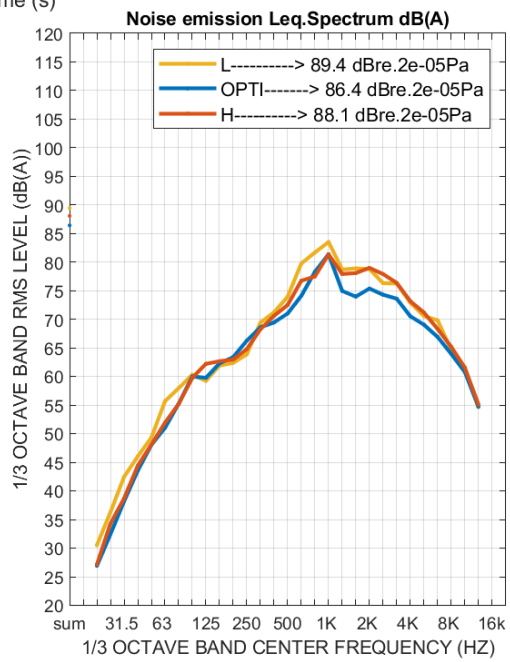
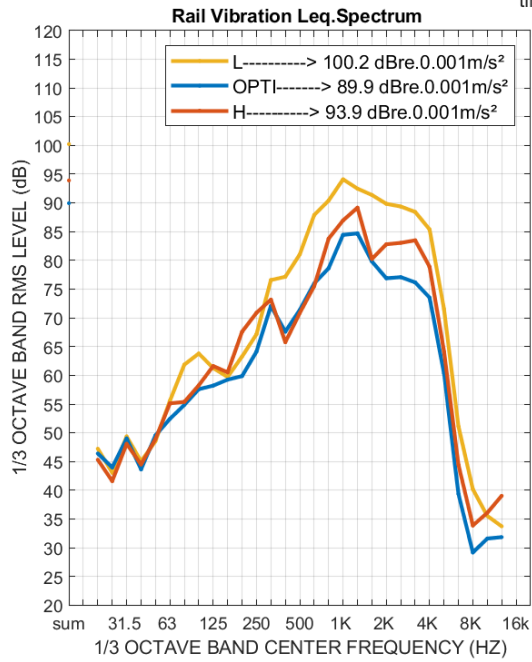
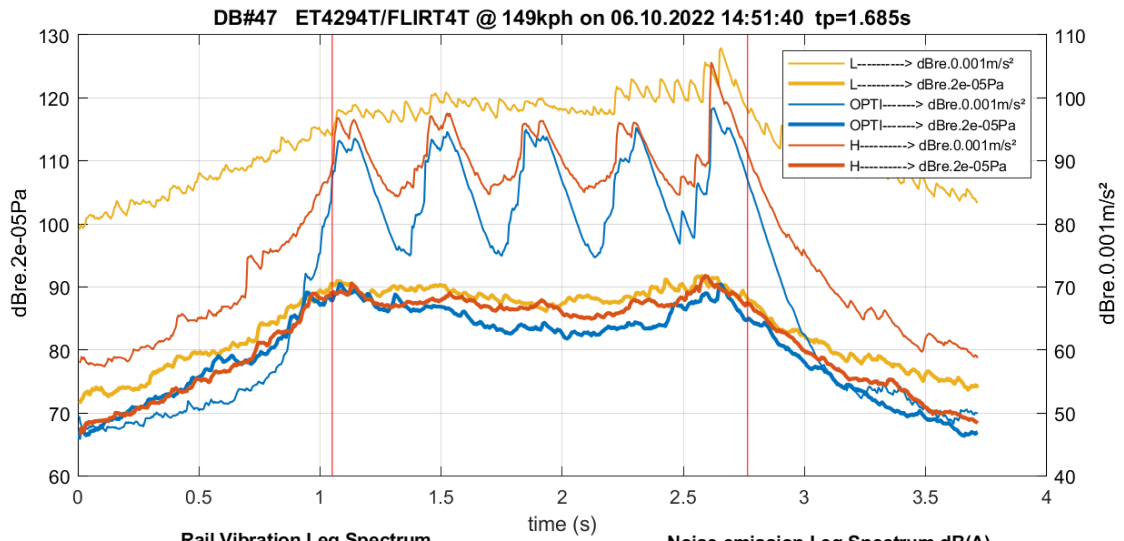


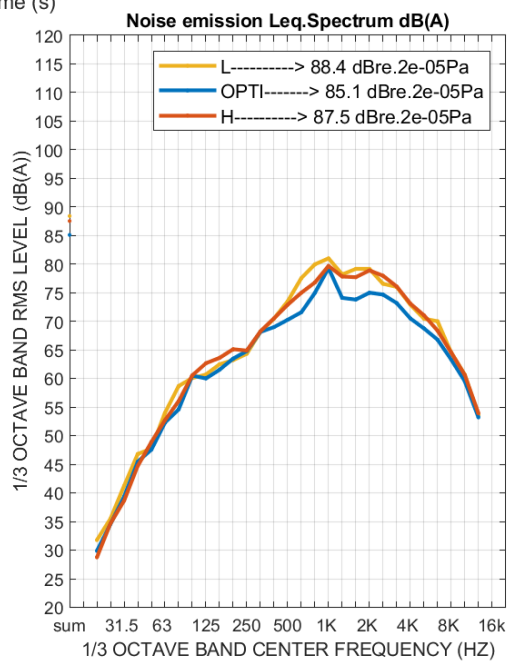
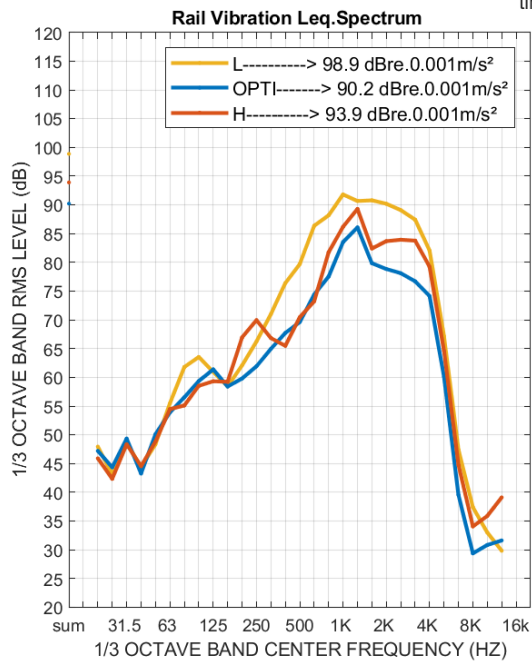
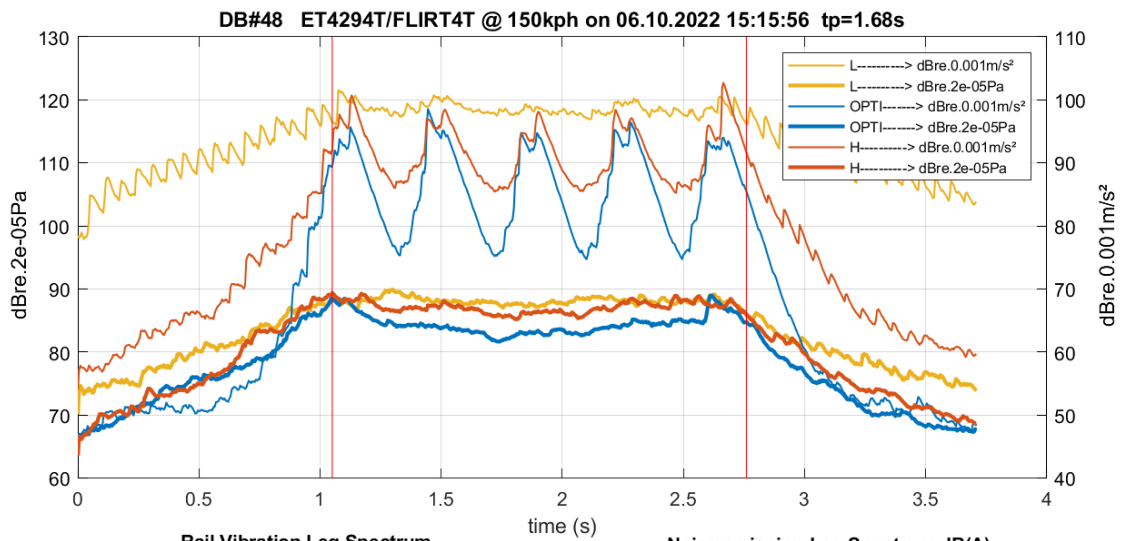


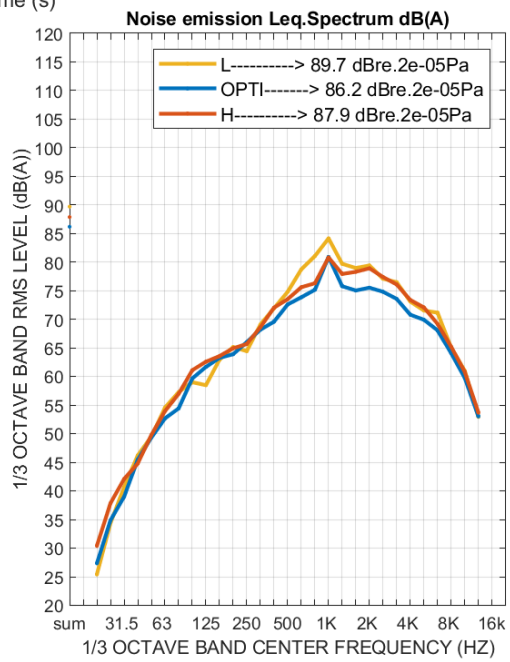
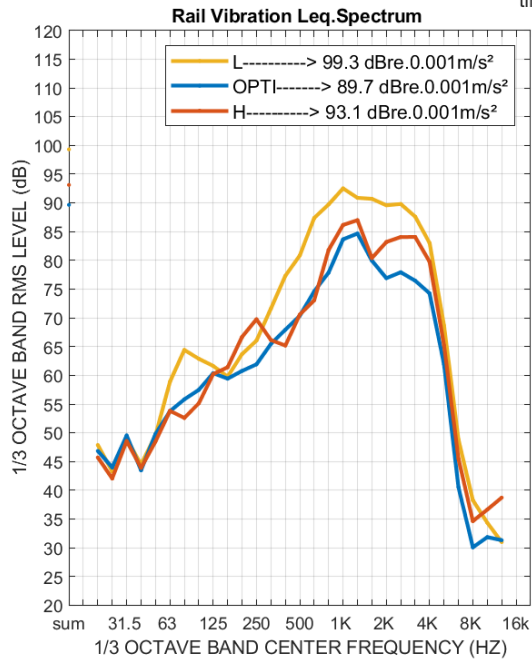
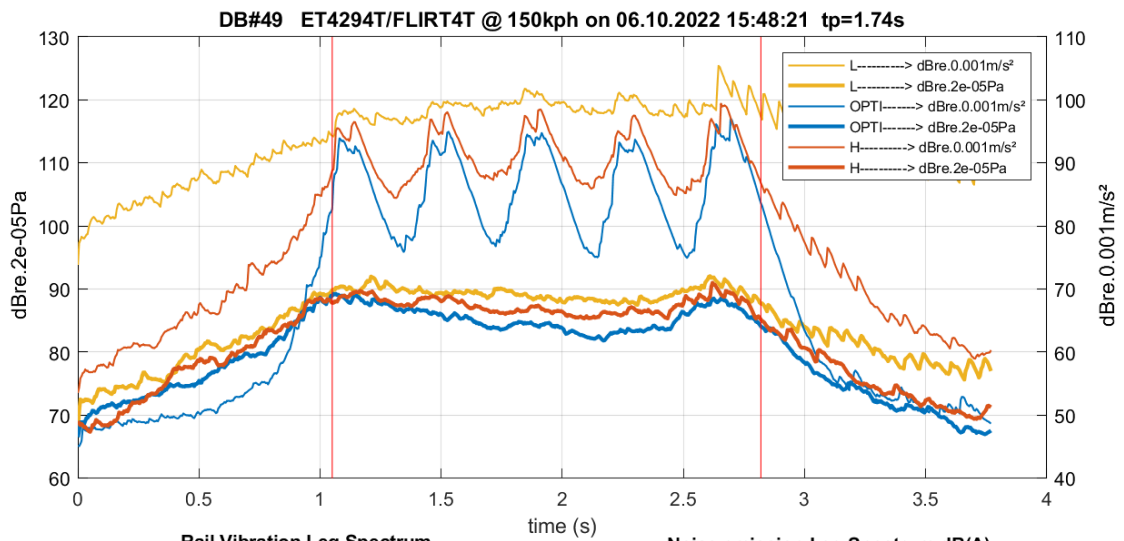


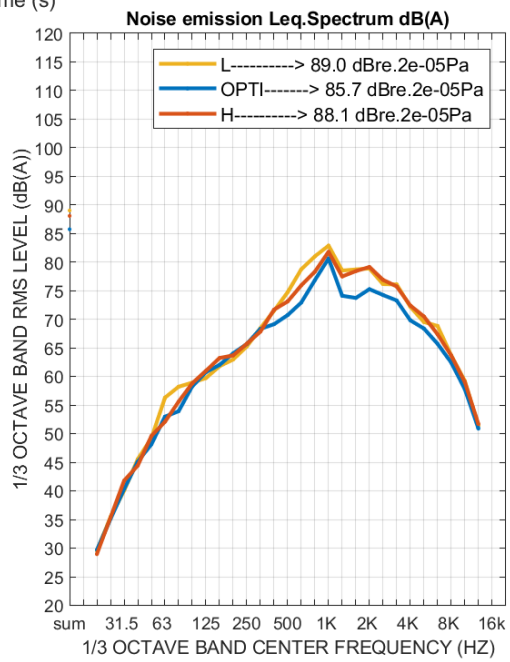
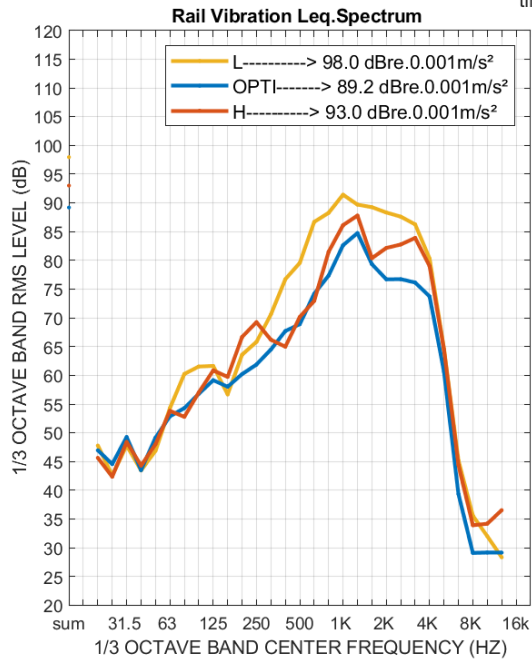
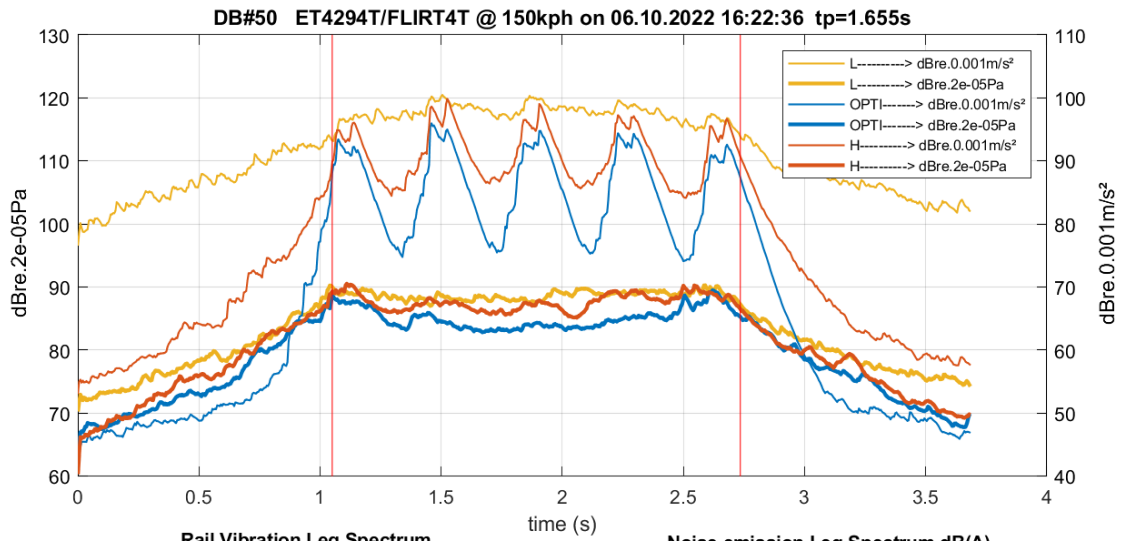


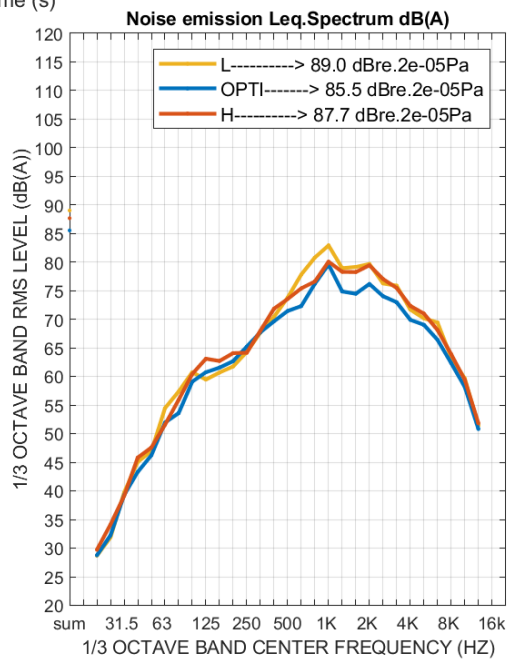
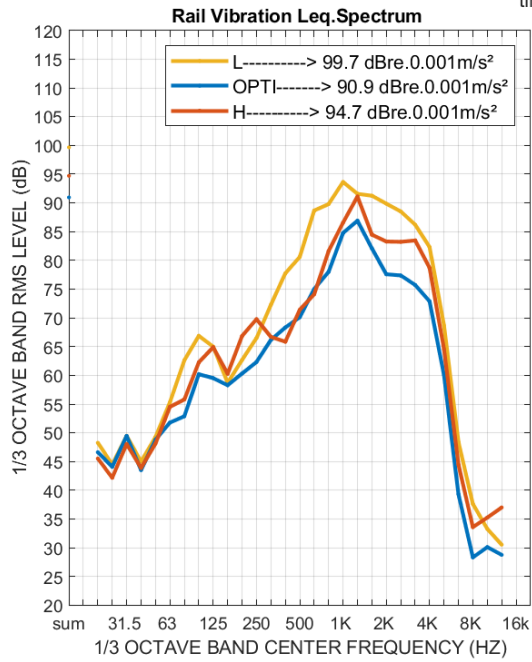
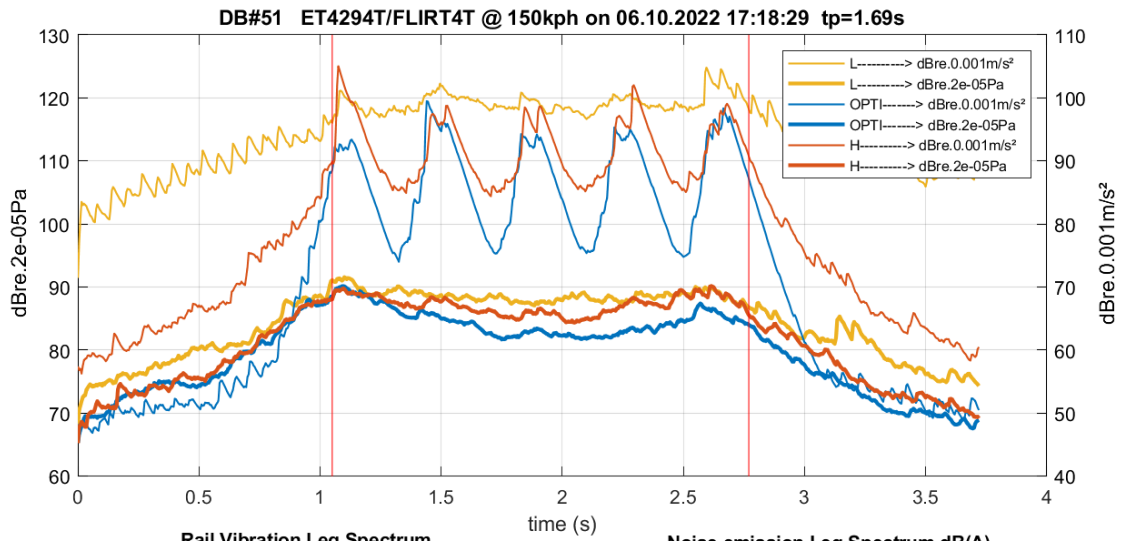


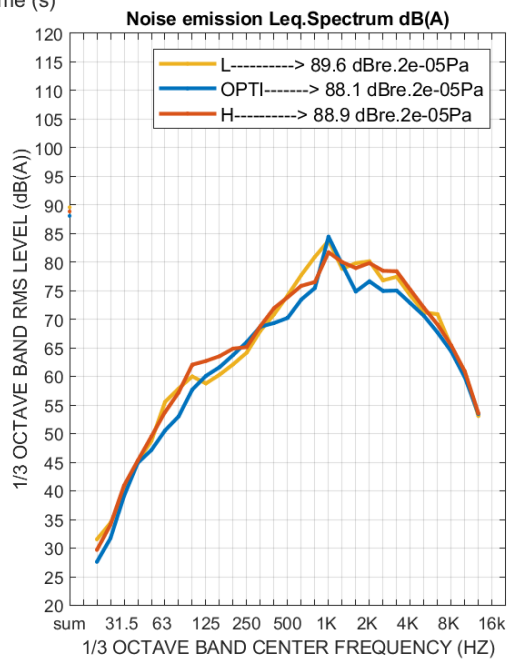
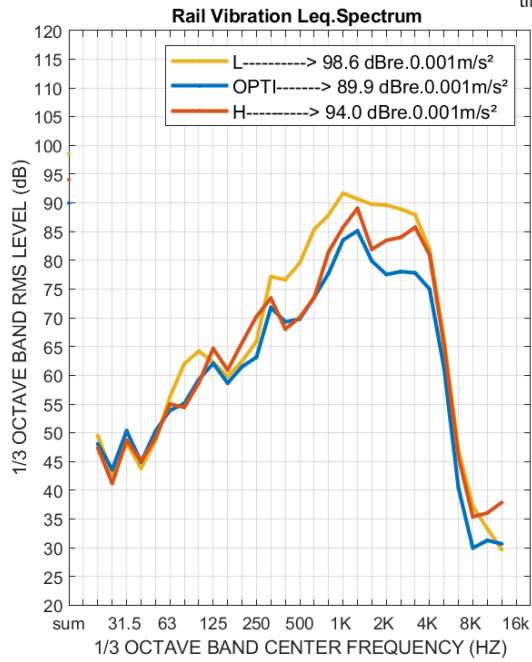
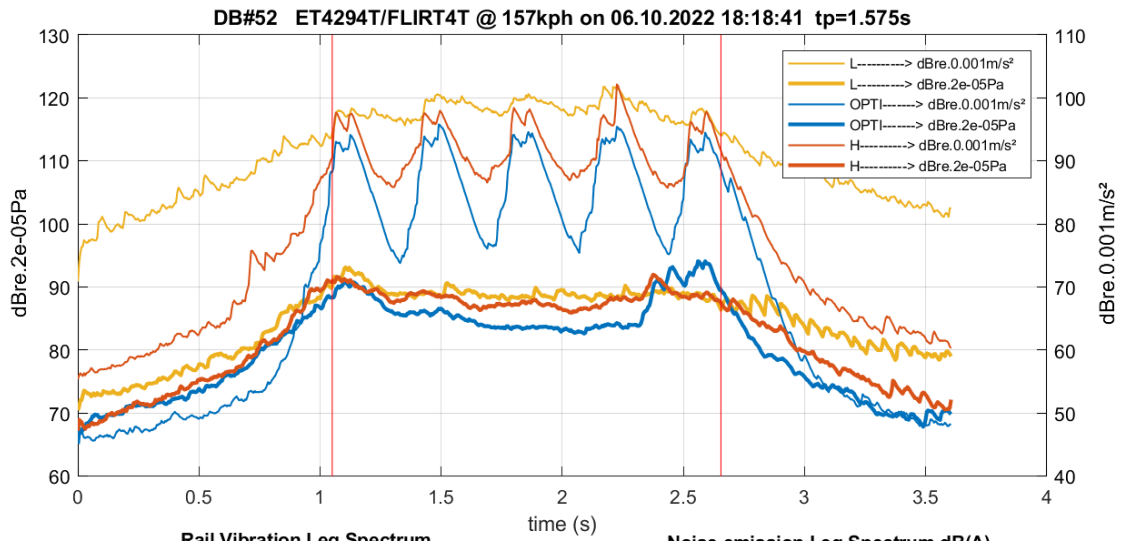


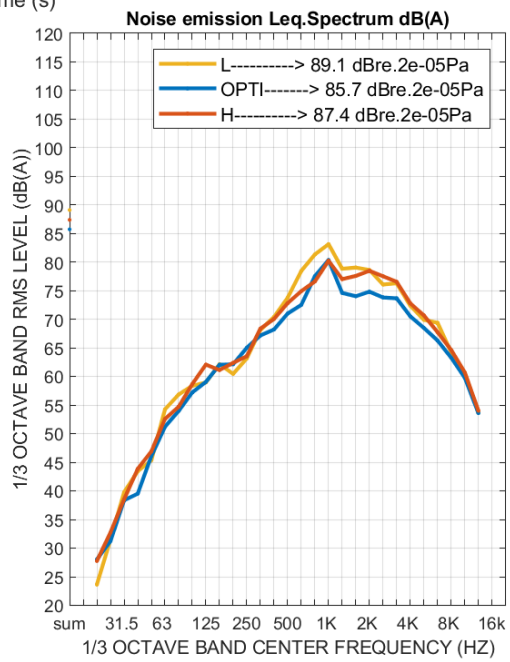
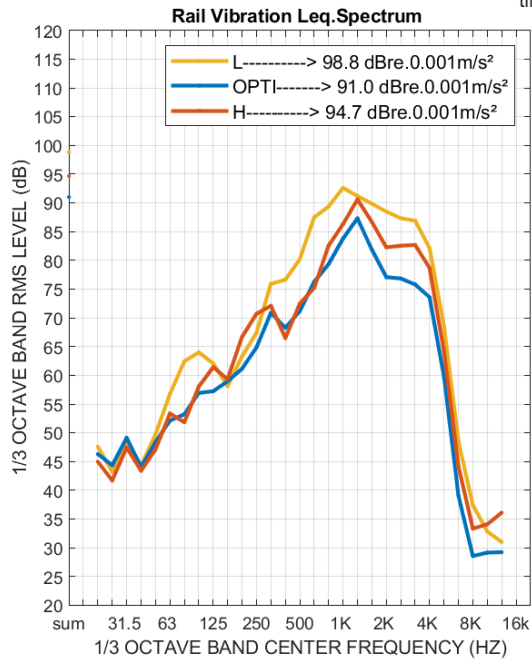
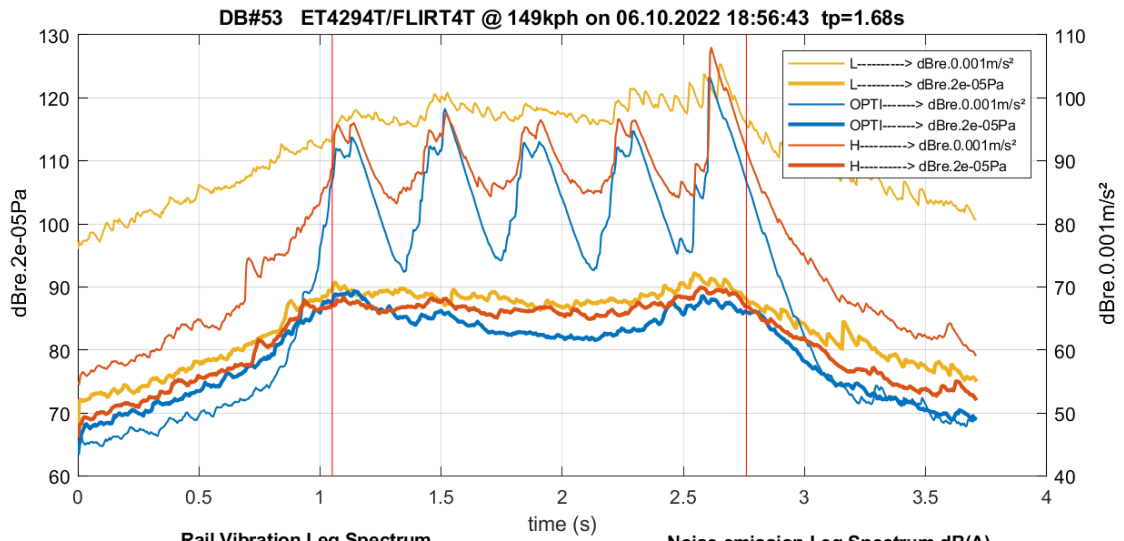


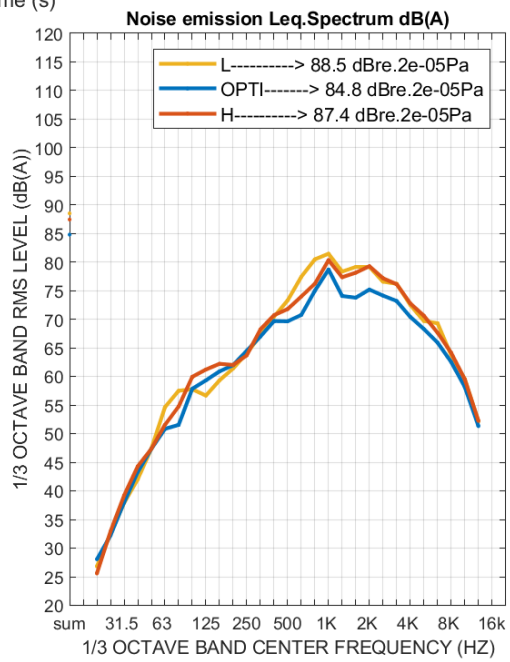
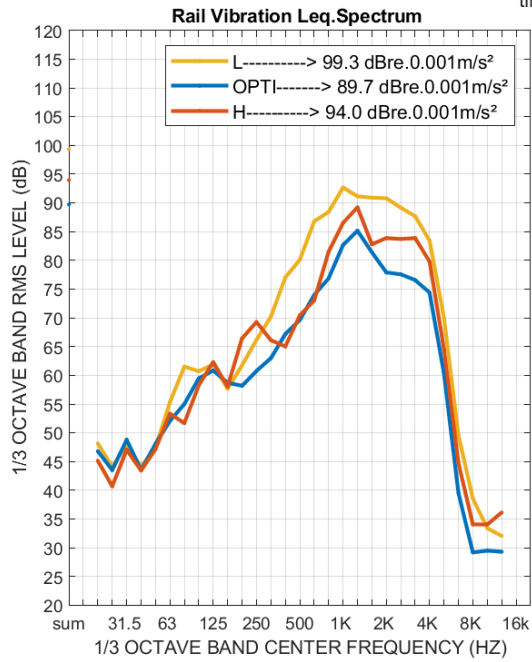
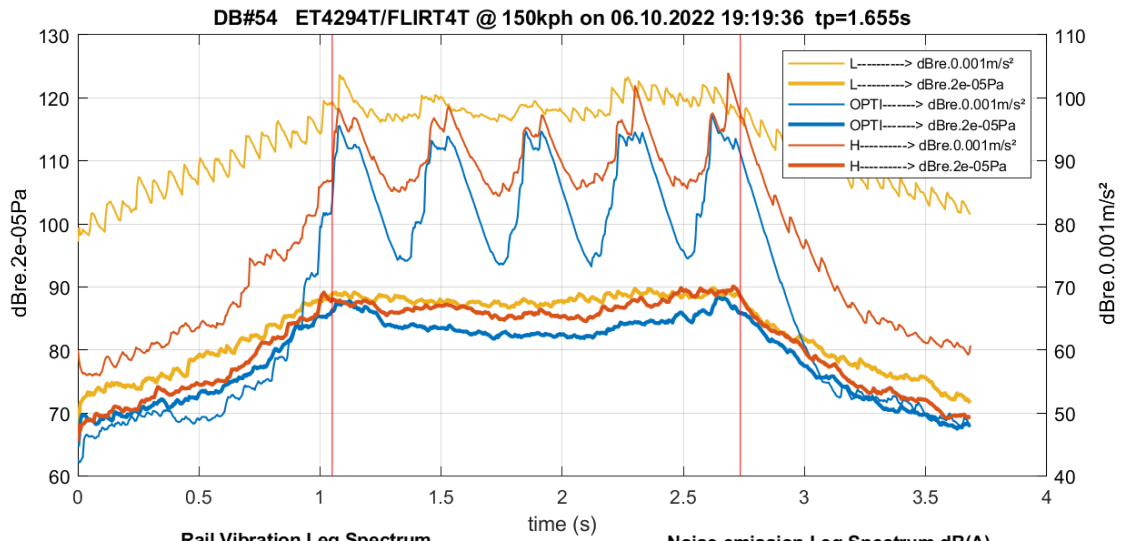


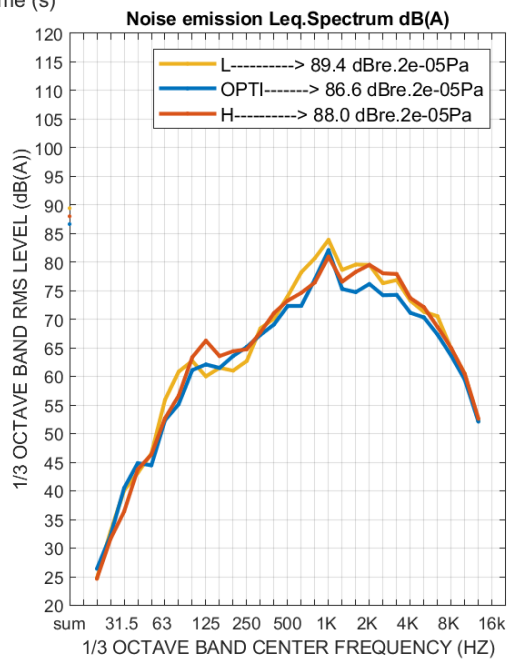
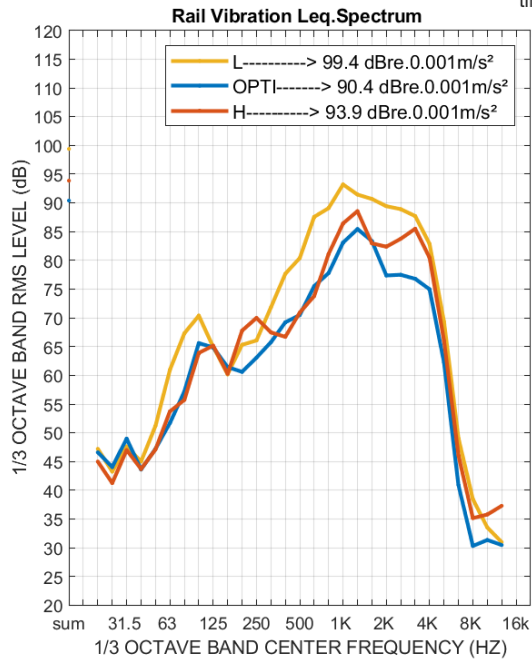
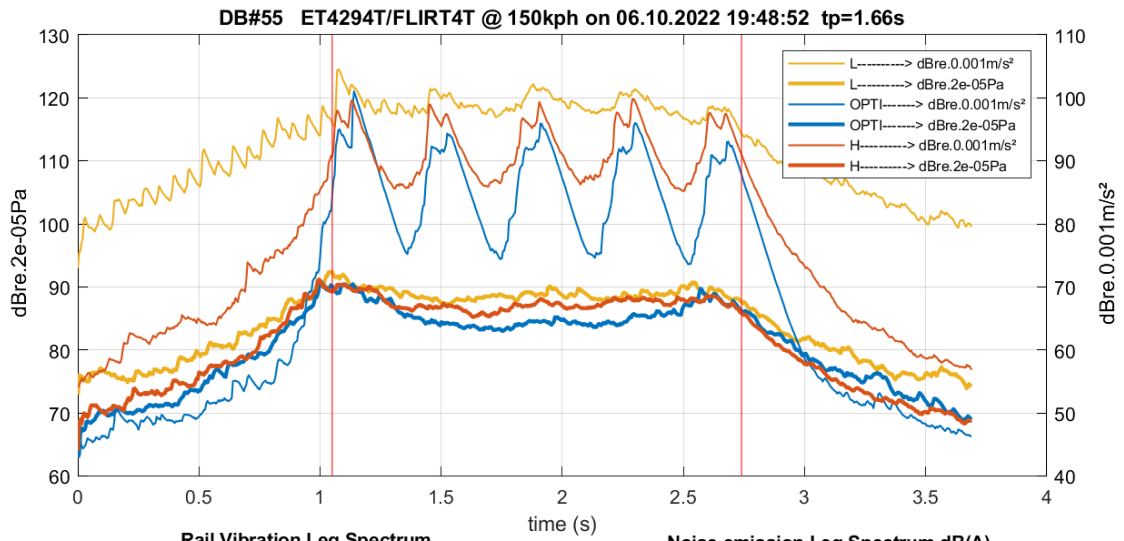




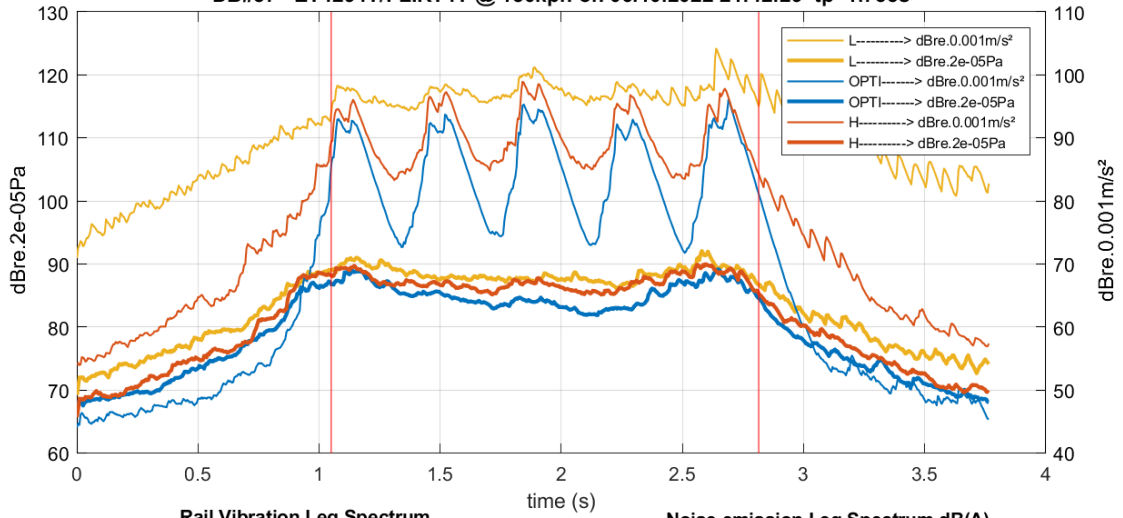




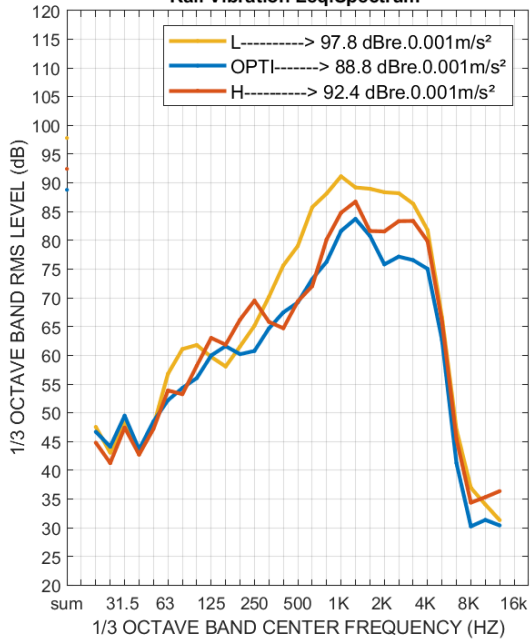




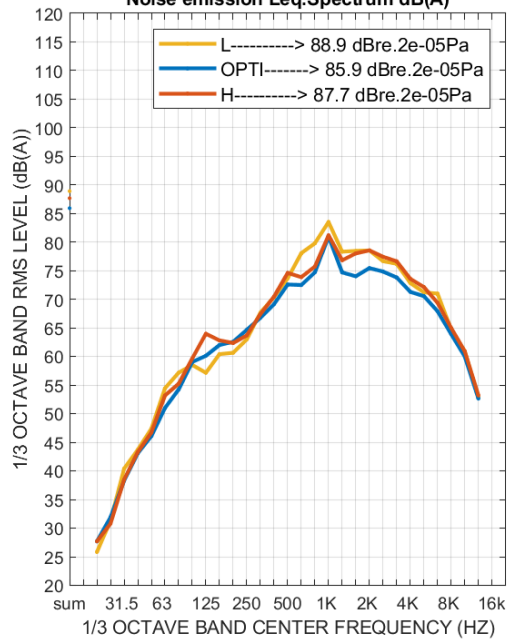
DB#57 ET4294T/FLIRT4T @ 150kph on 06.10.2022 21:42:29 tp=1.735s

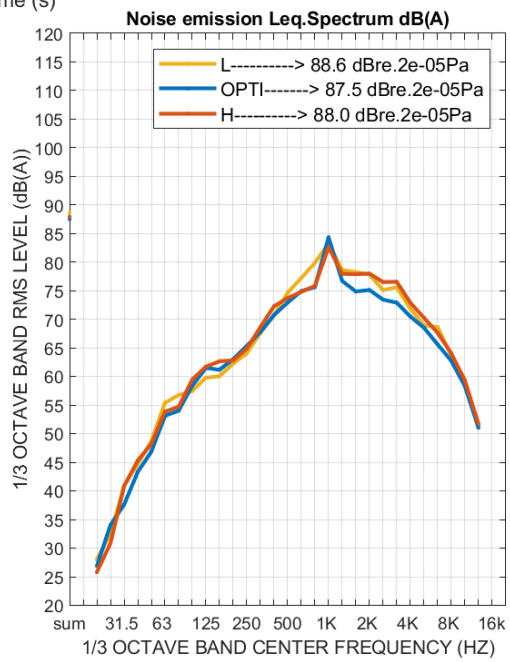
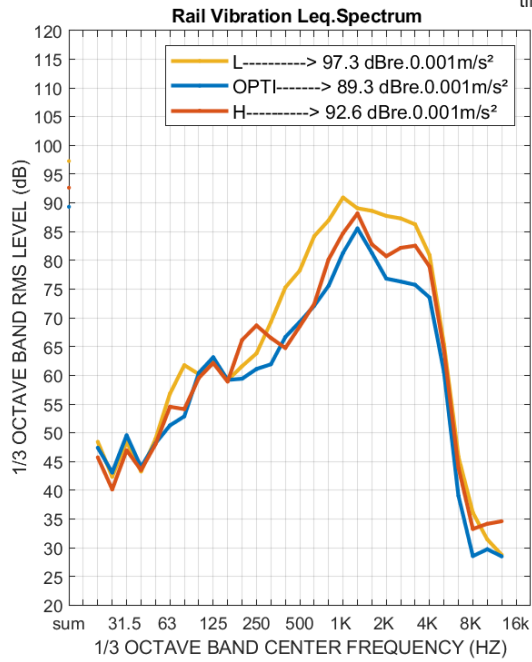
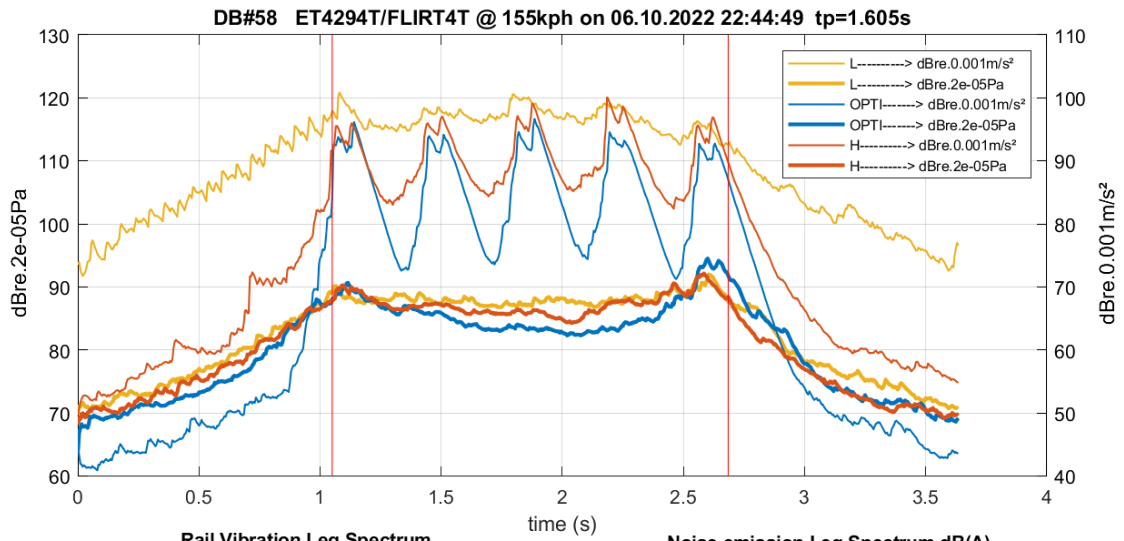


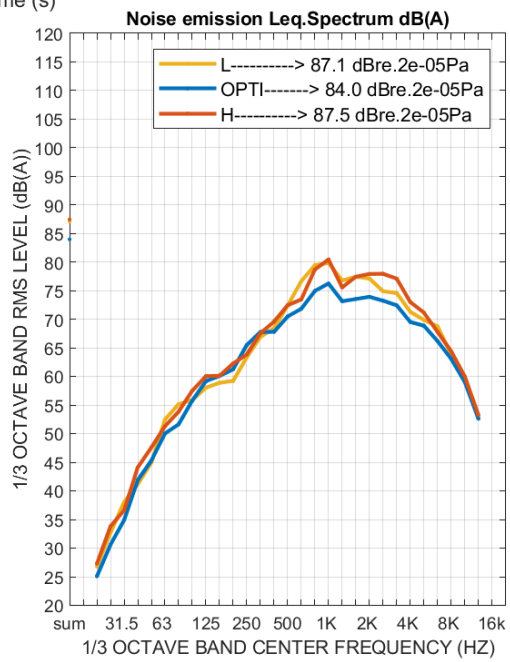
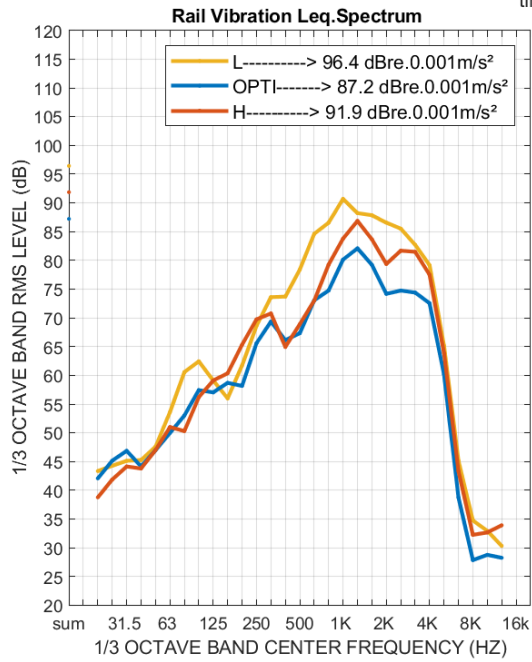
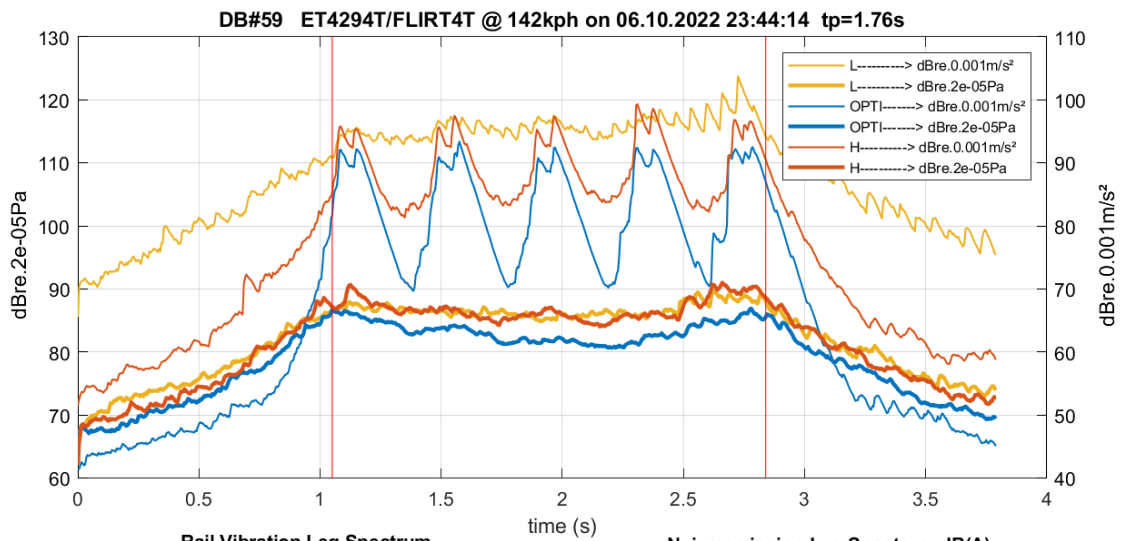
Rail Vibration Leq.Spectrum

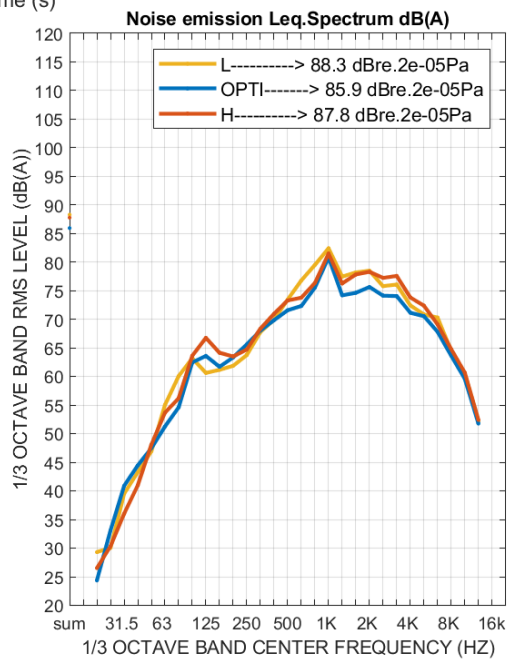
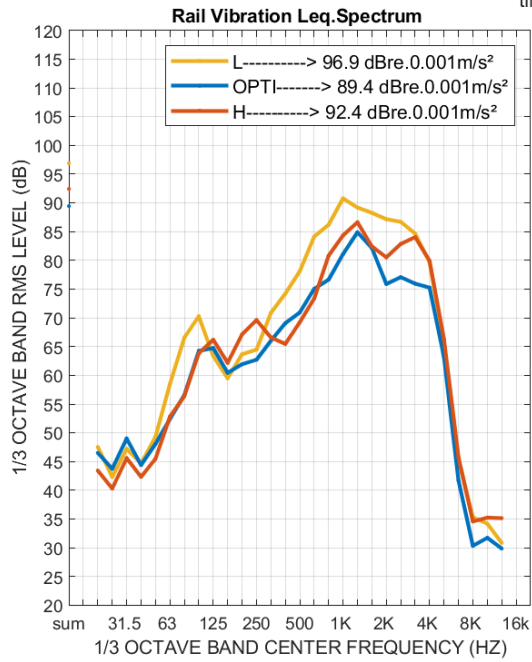
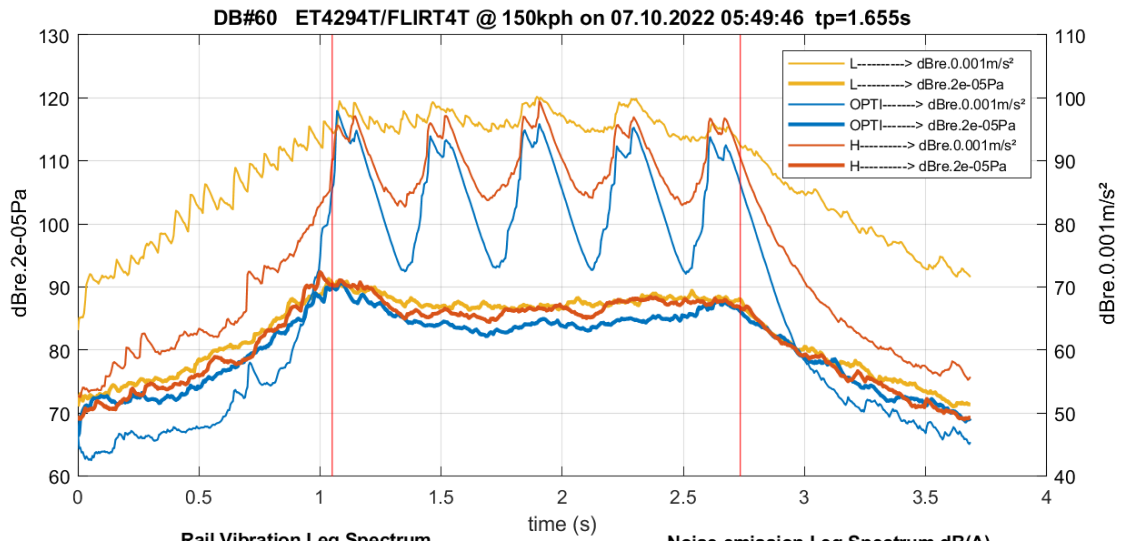


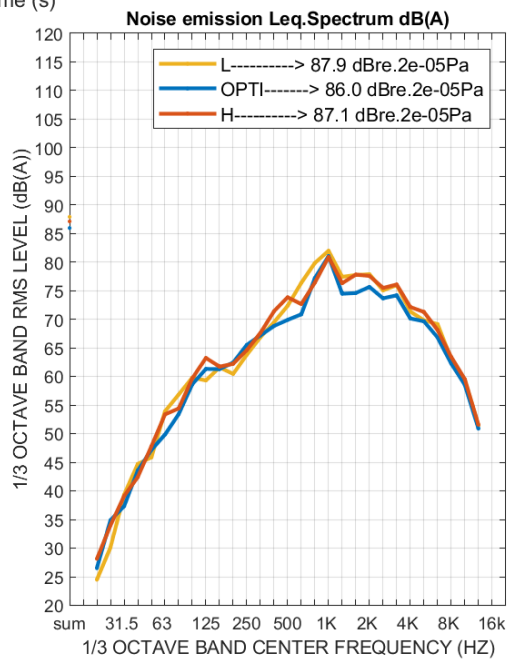
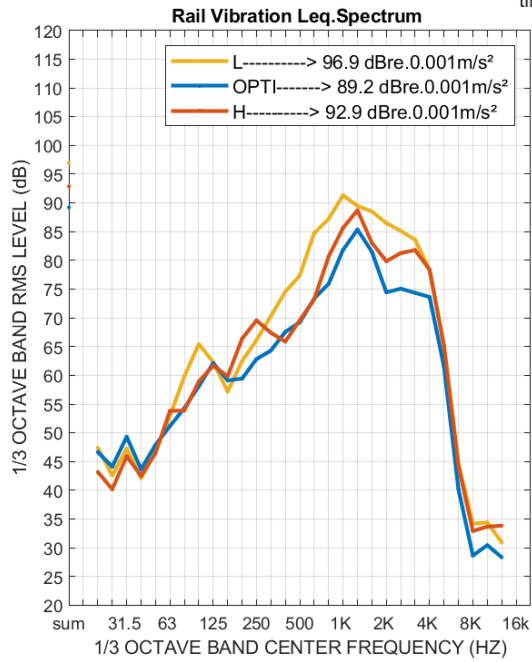
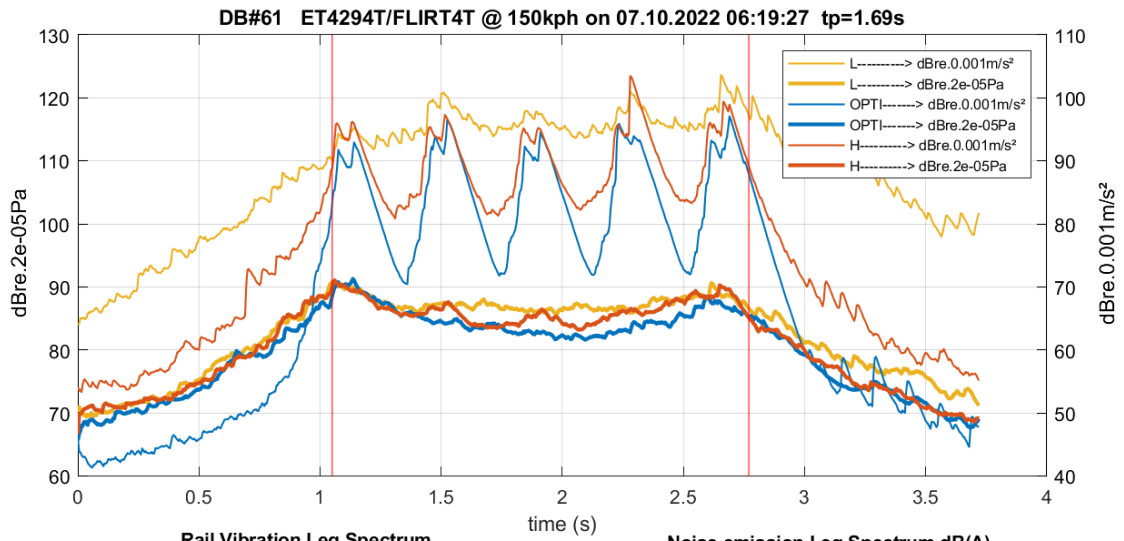
Noise emission Leq.Spectrum dB(A)

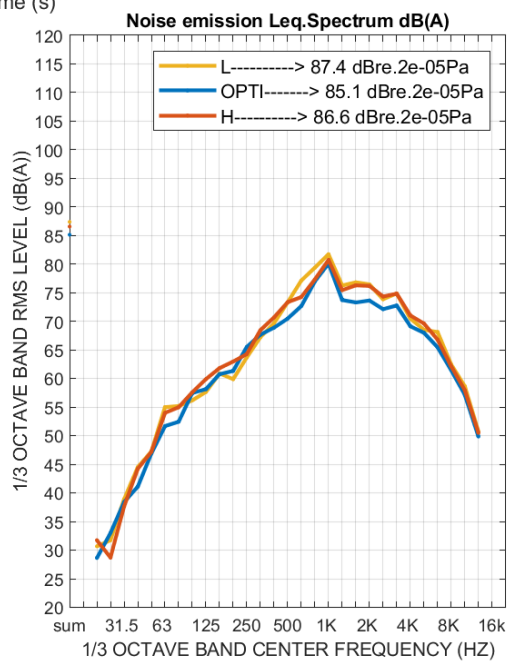
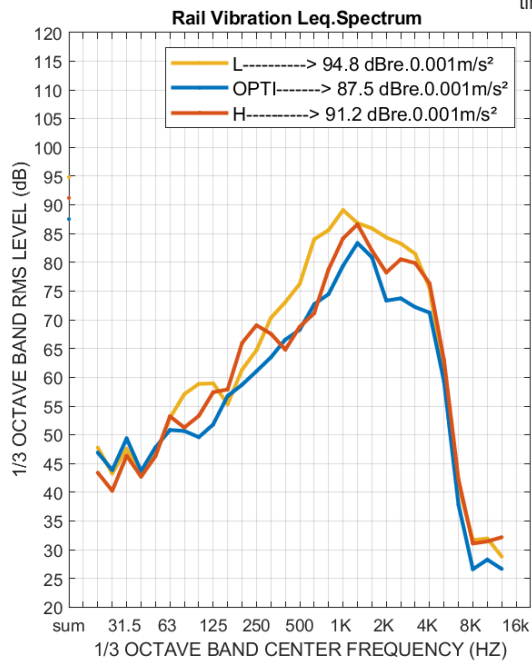
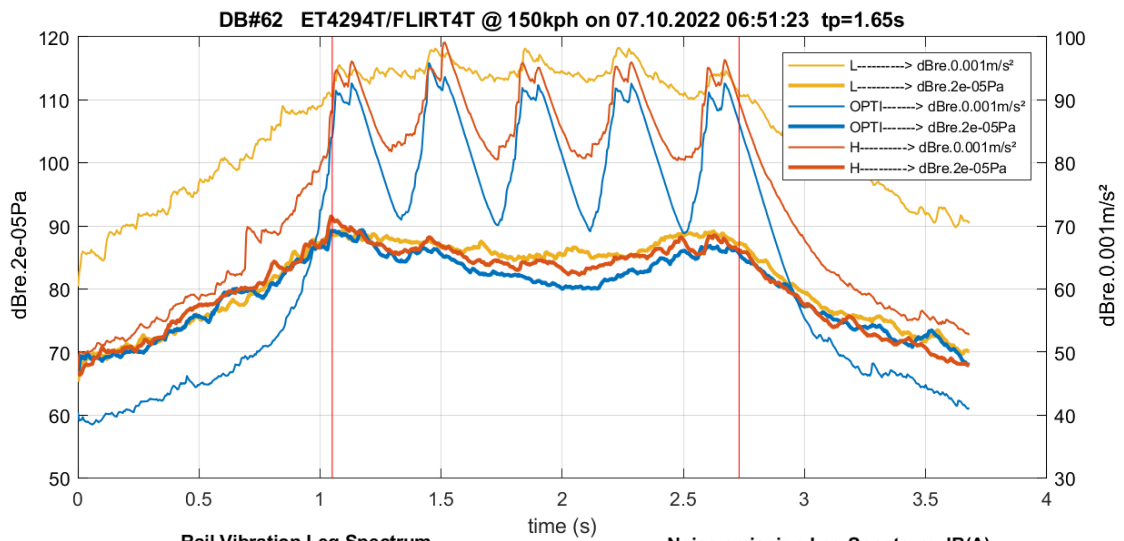


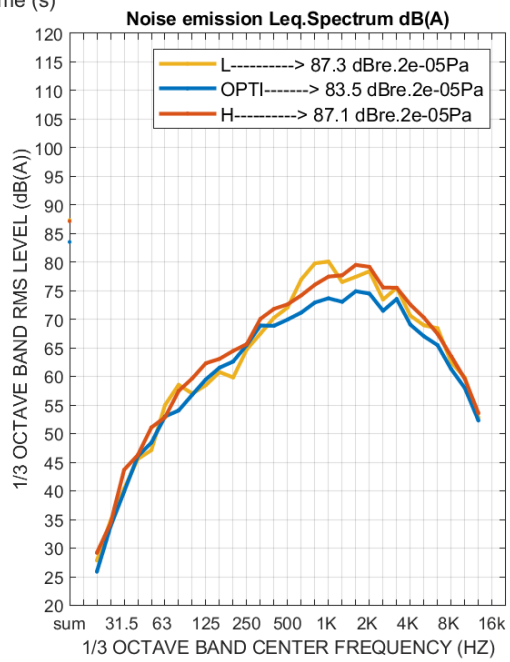
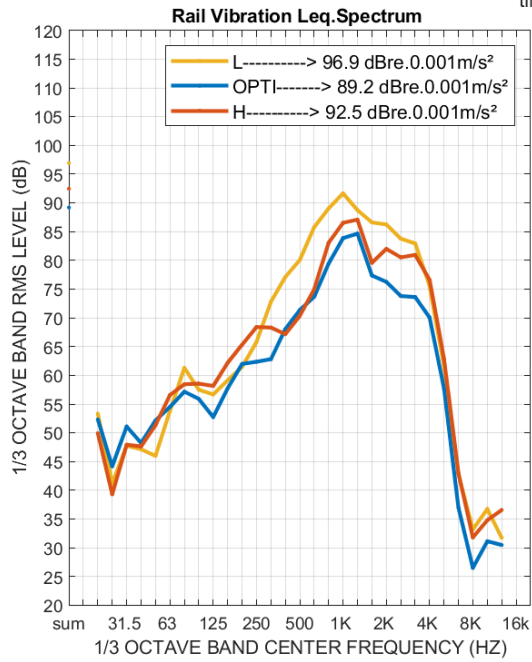
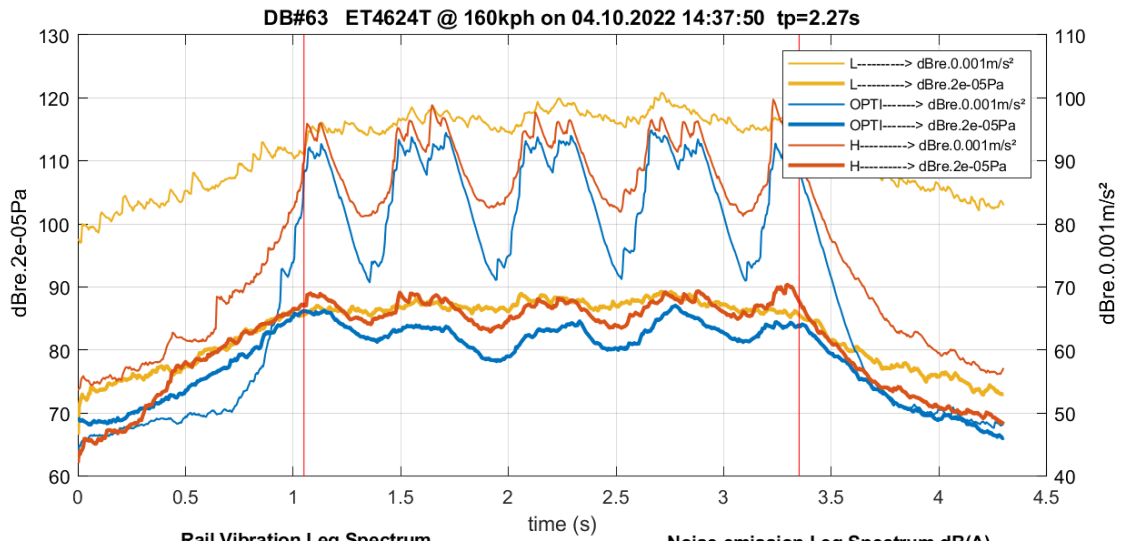


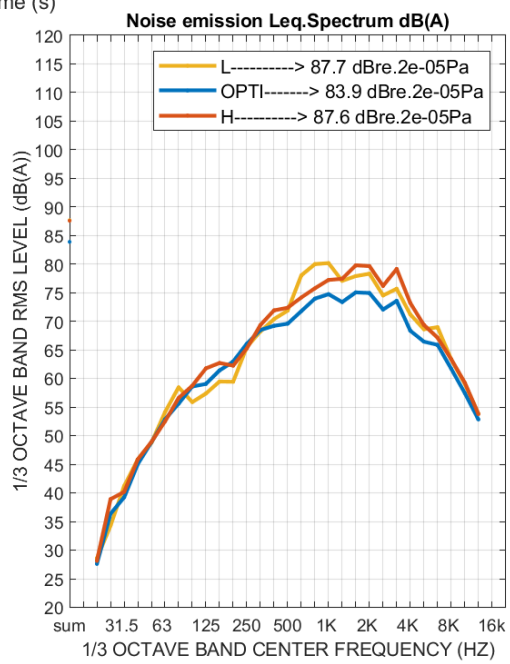
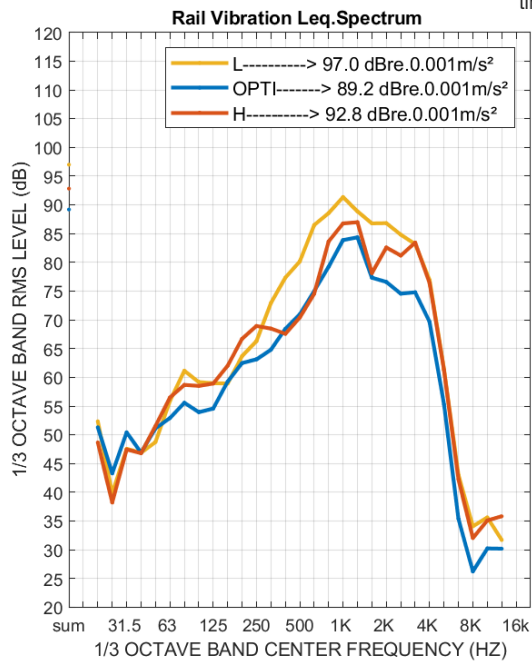
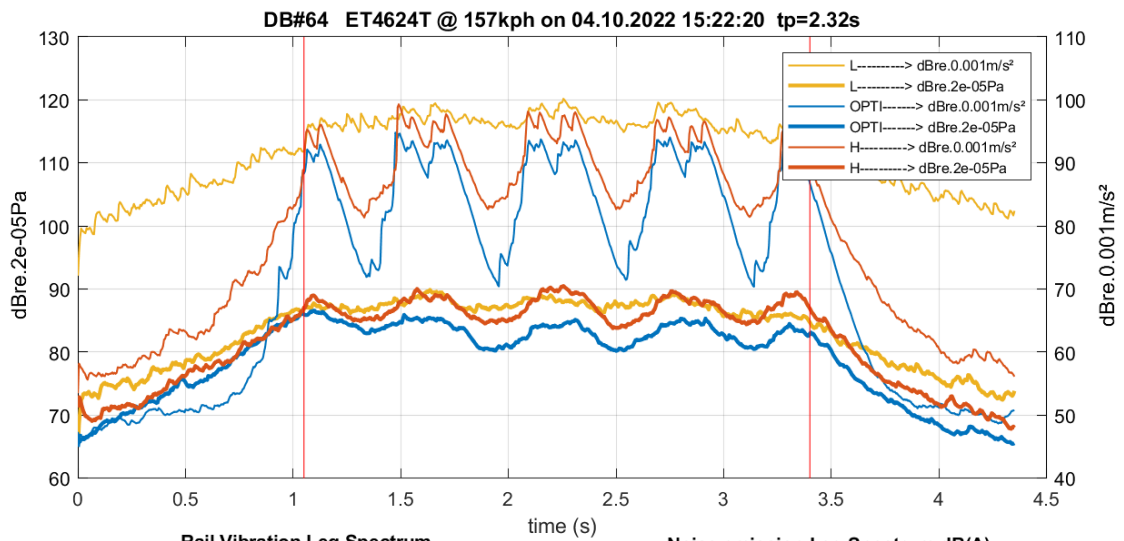


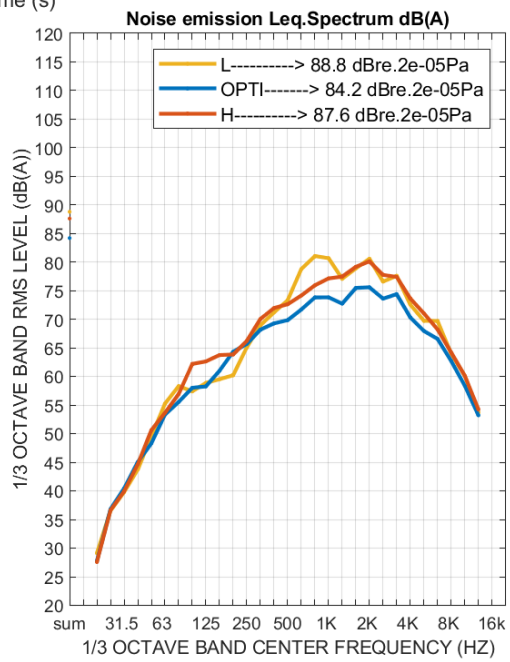
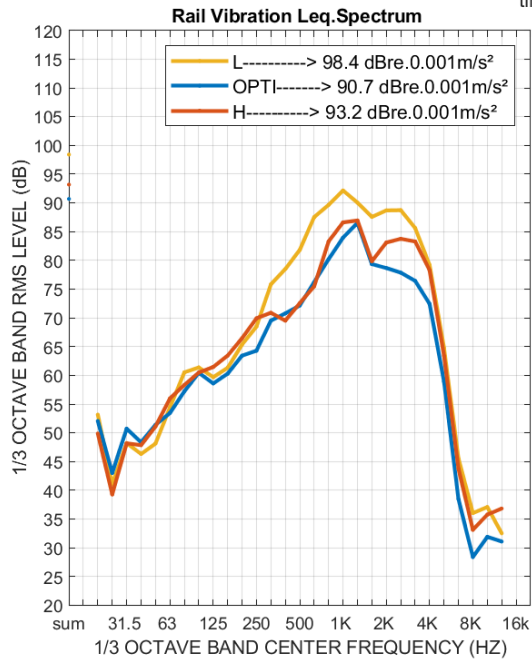
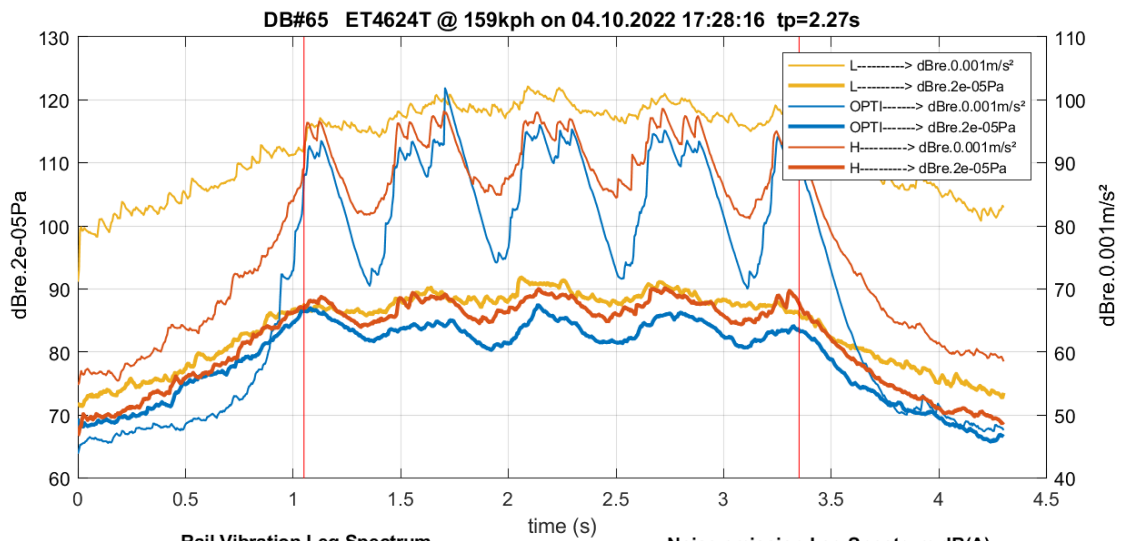


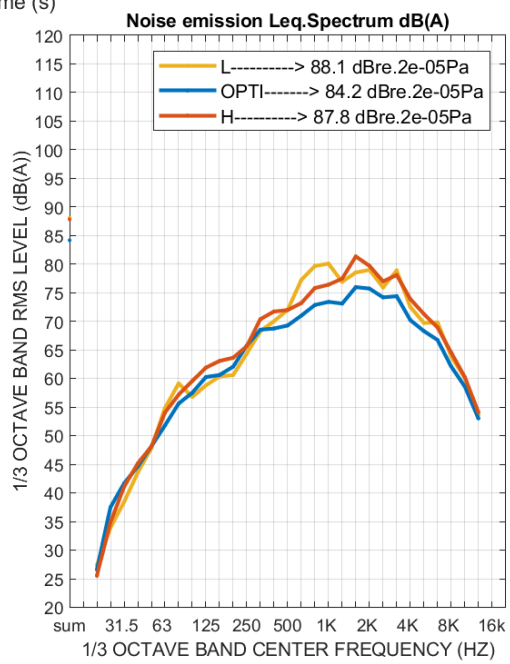
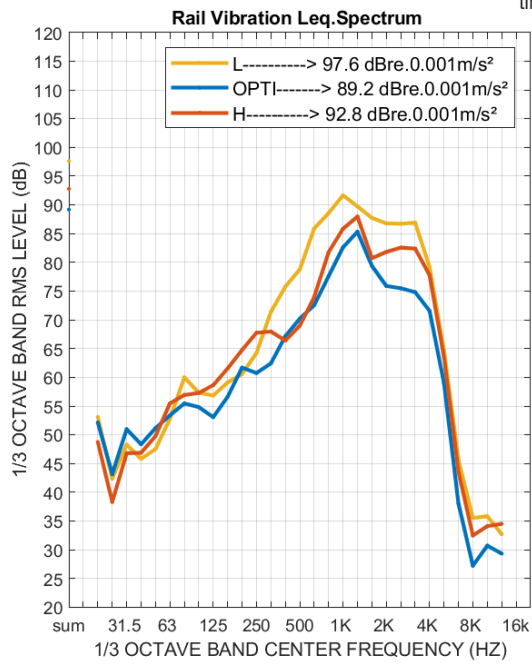
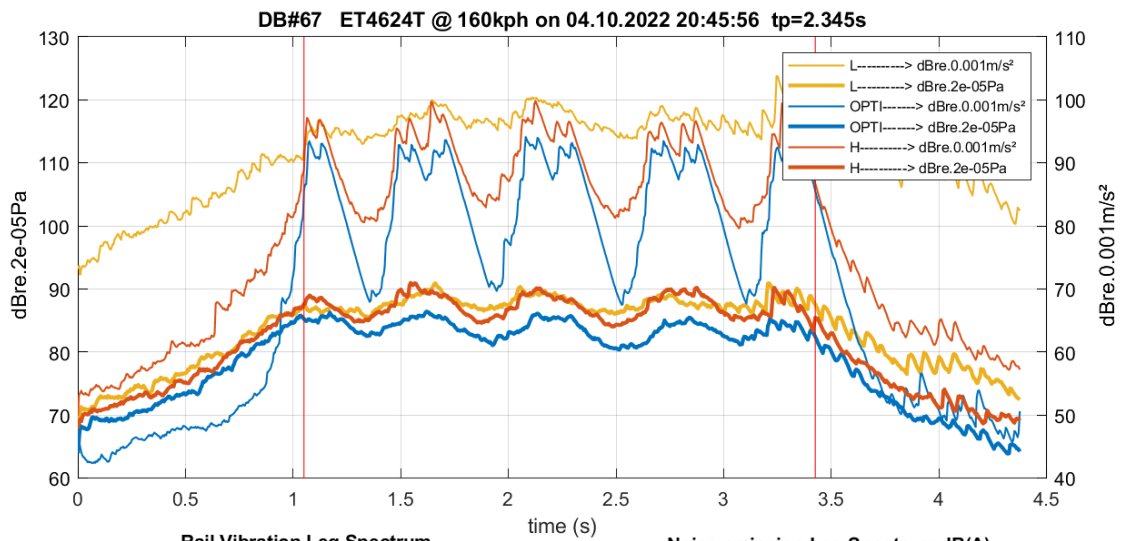


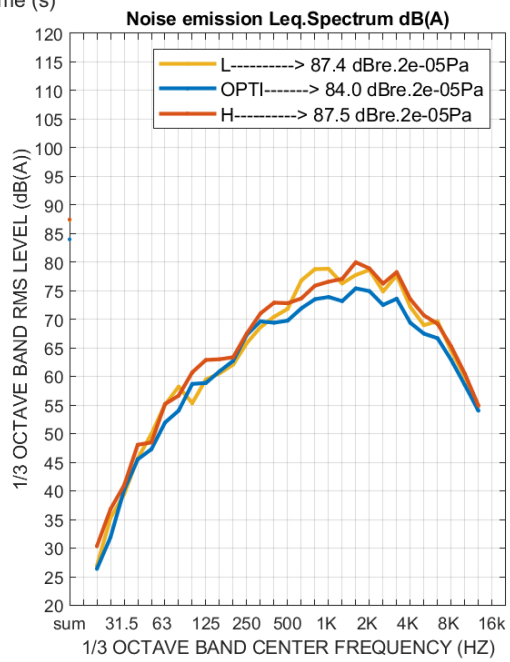
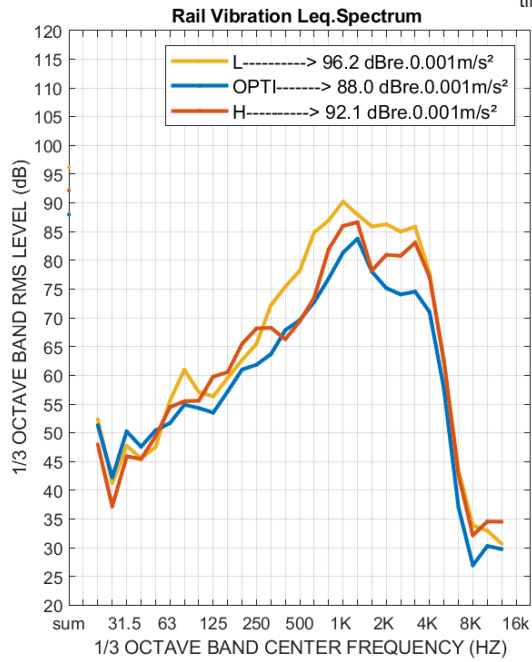
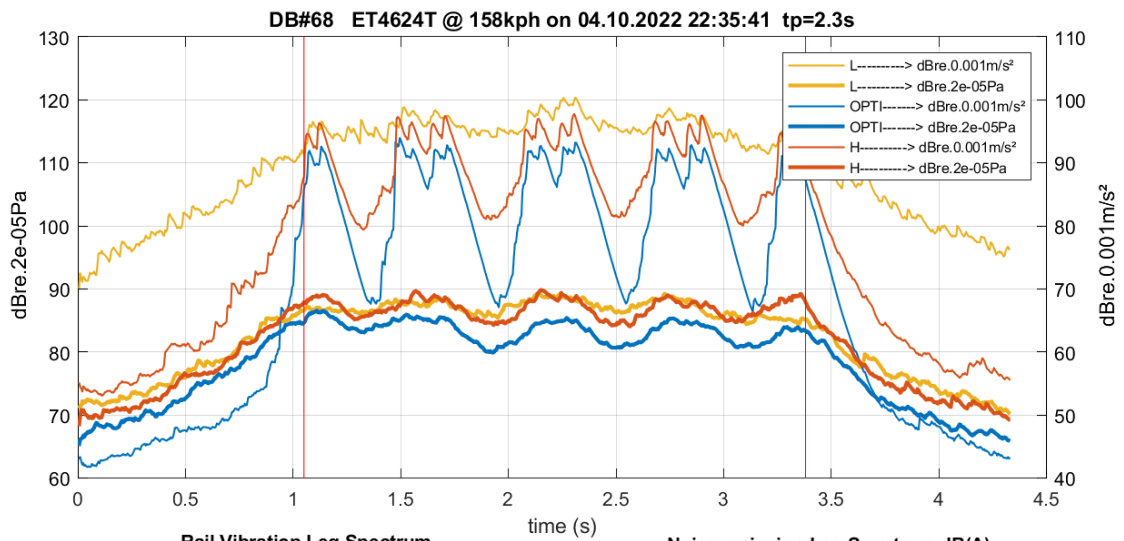


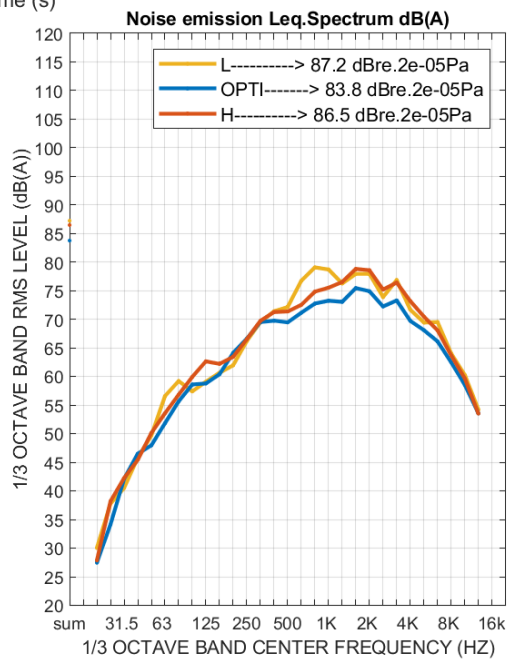
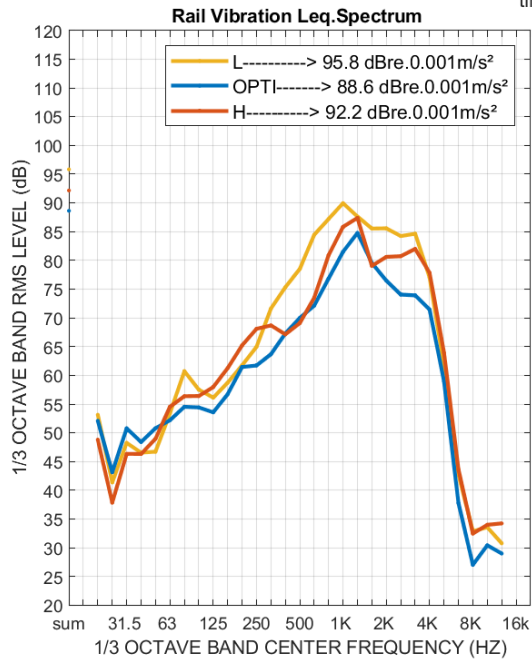
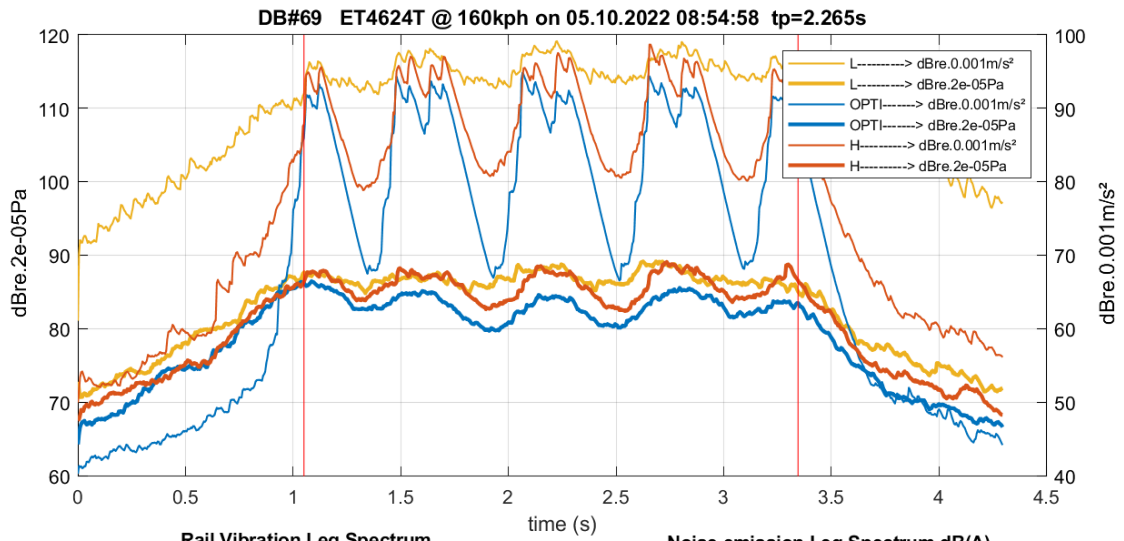


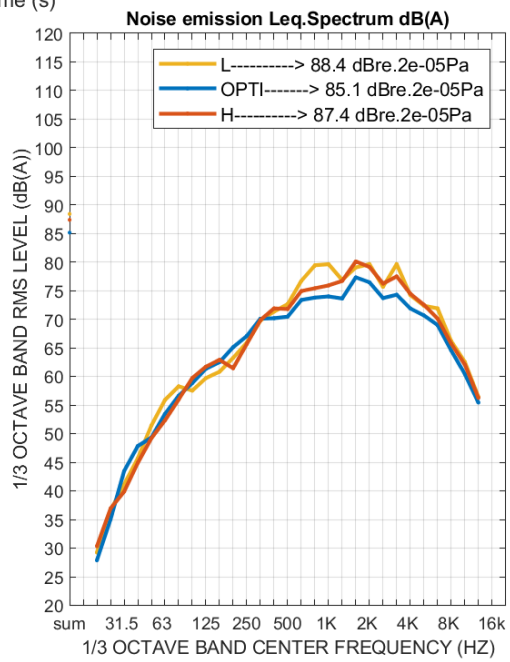
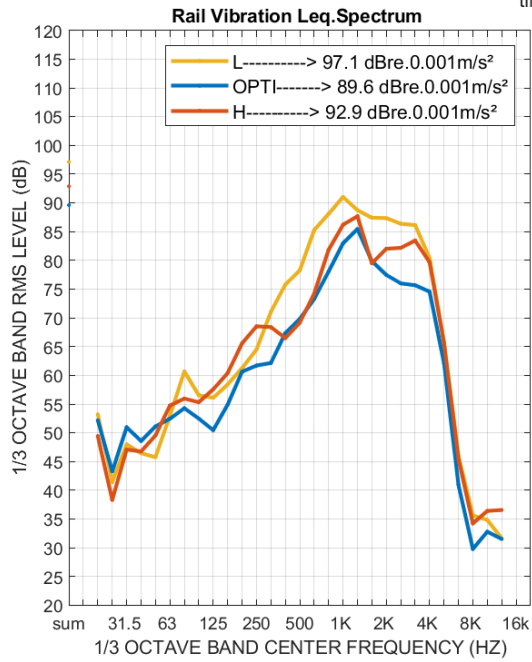
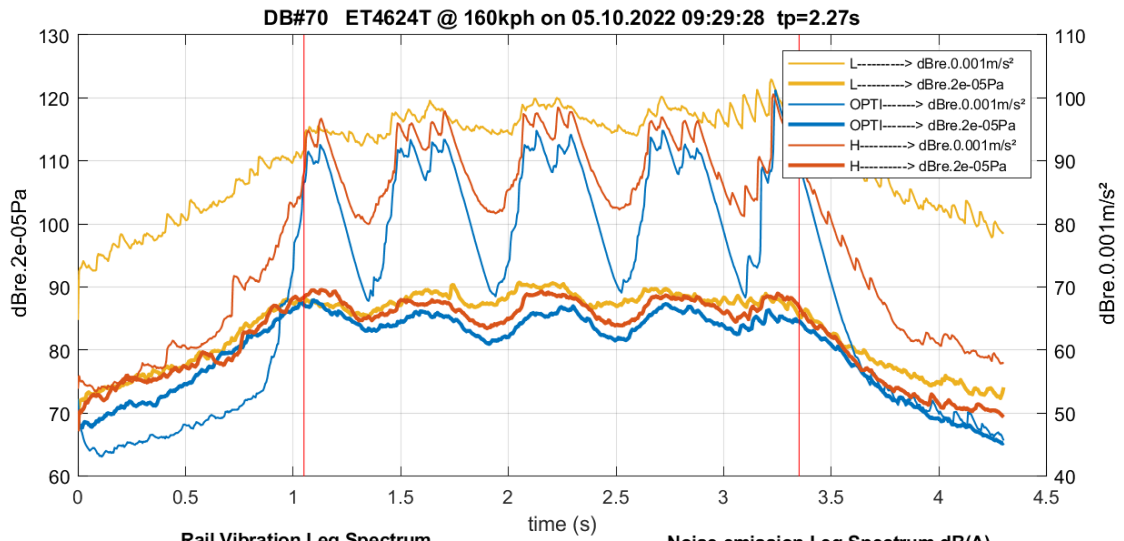


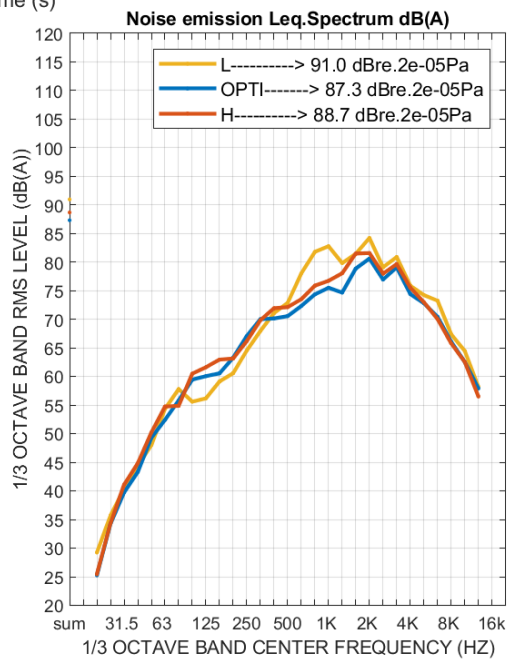
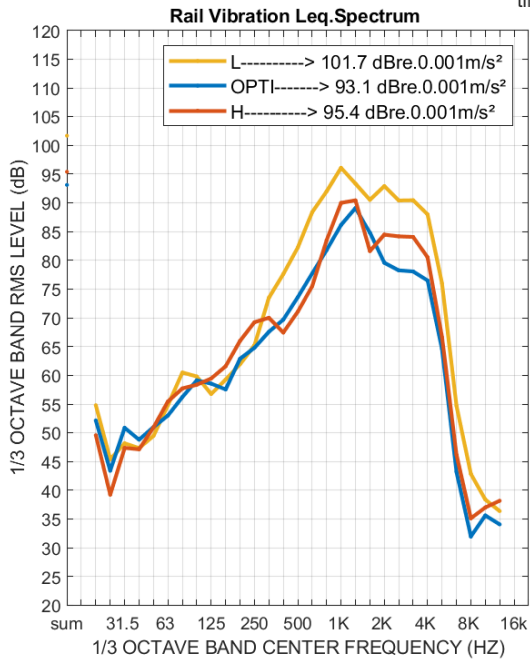
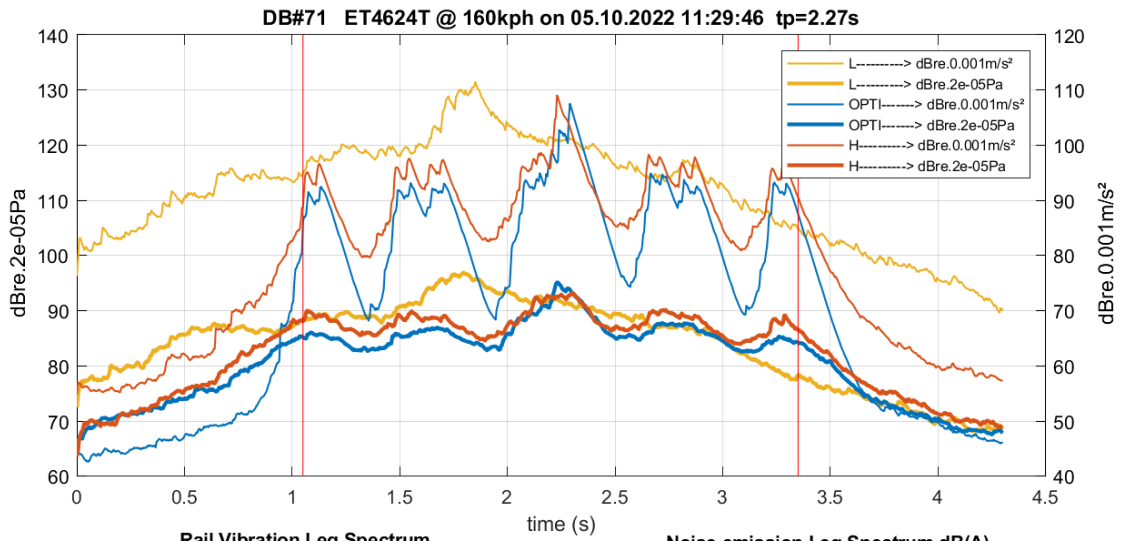


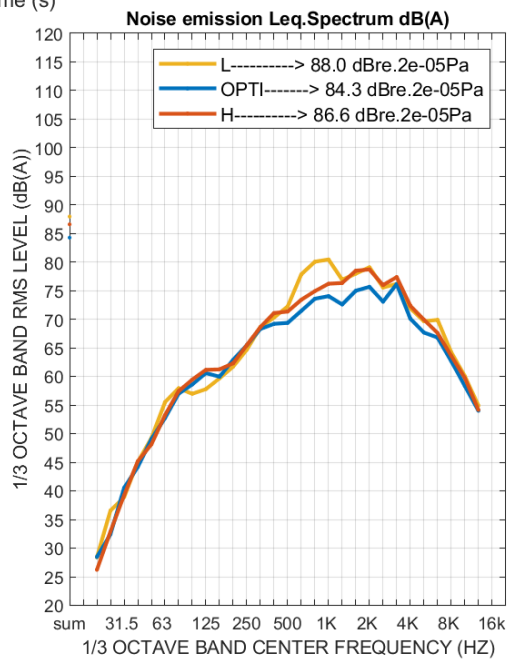
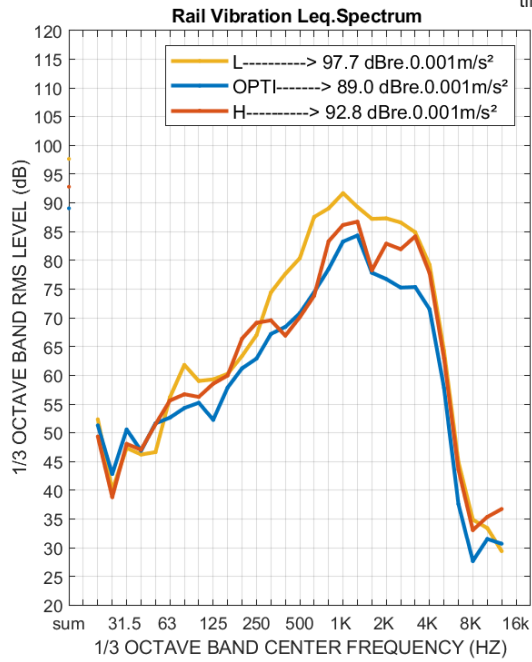
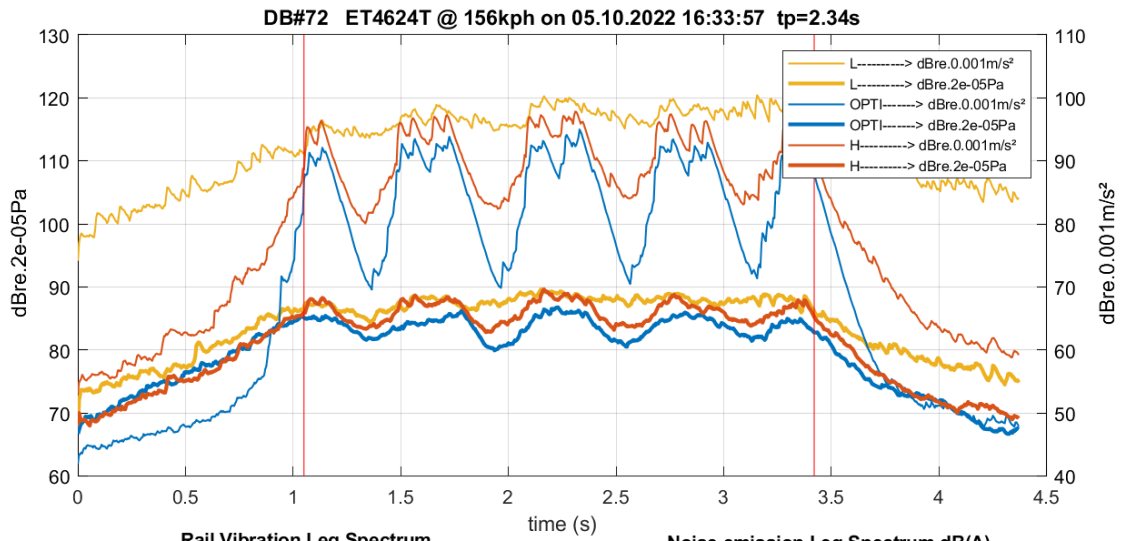


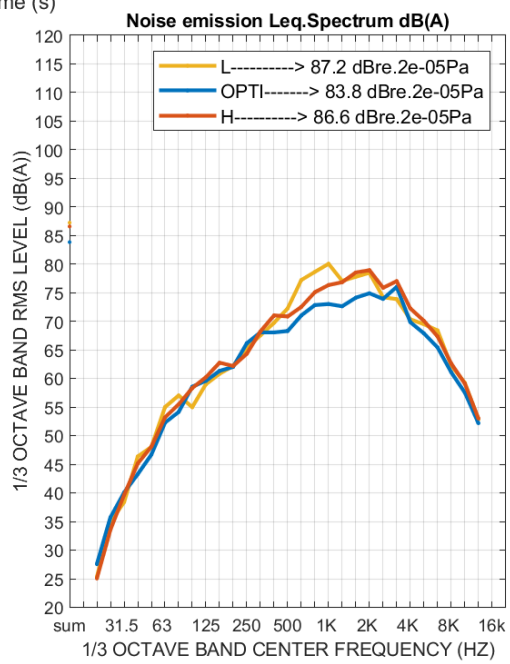
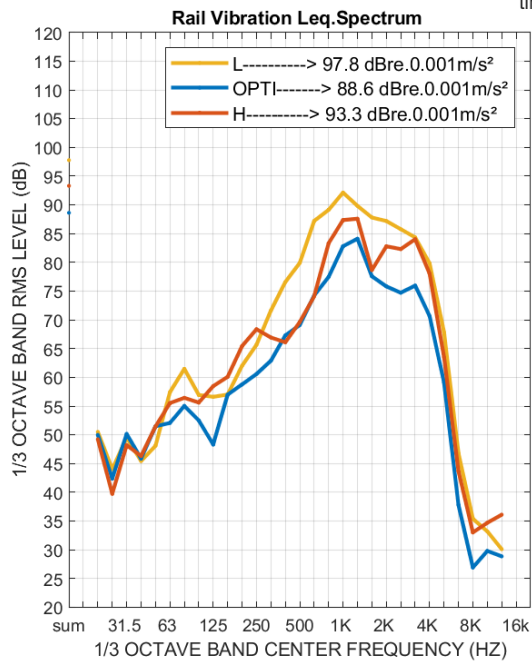
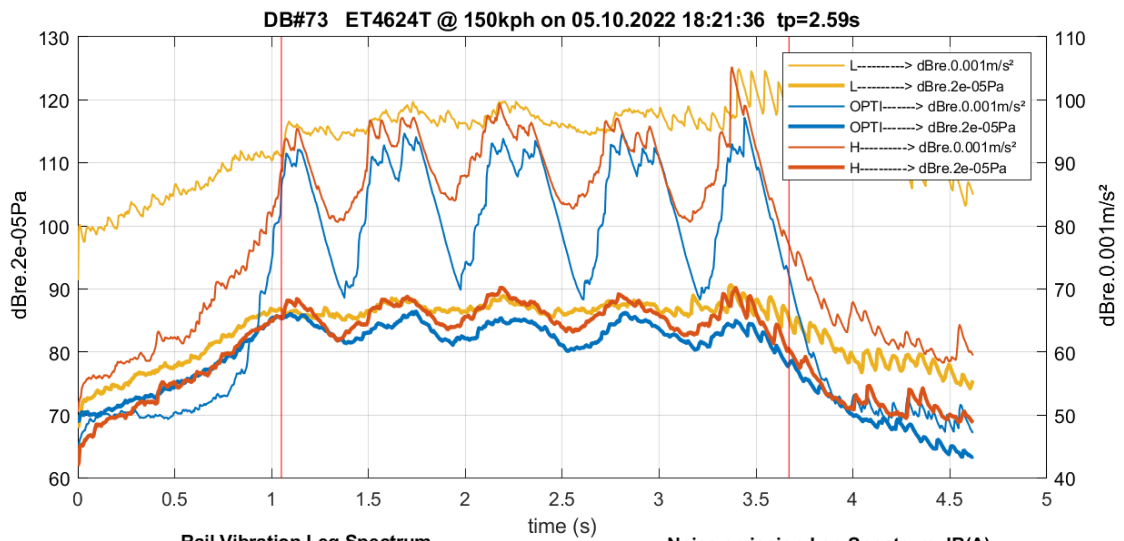


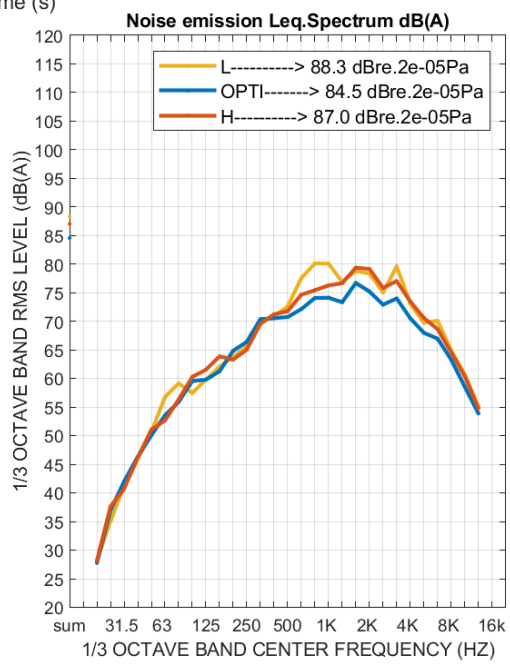
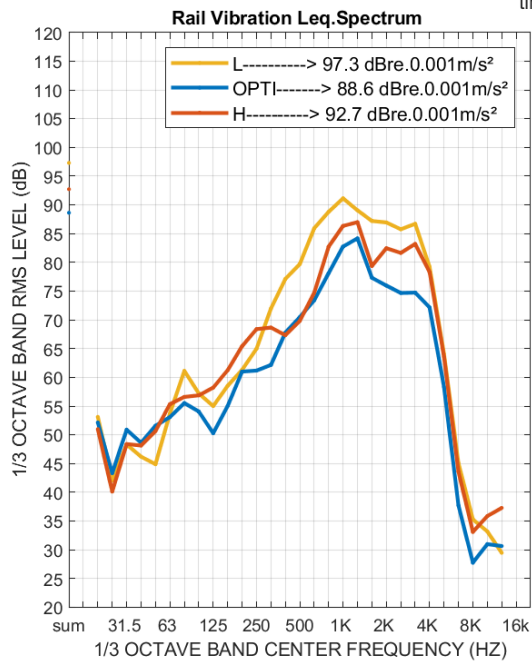
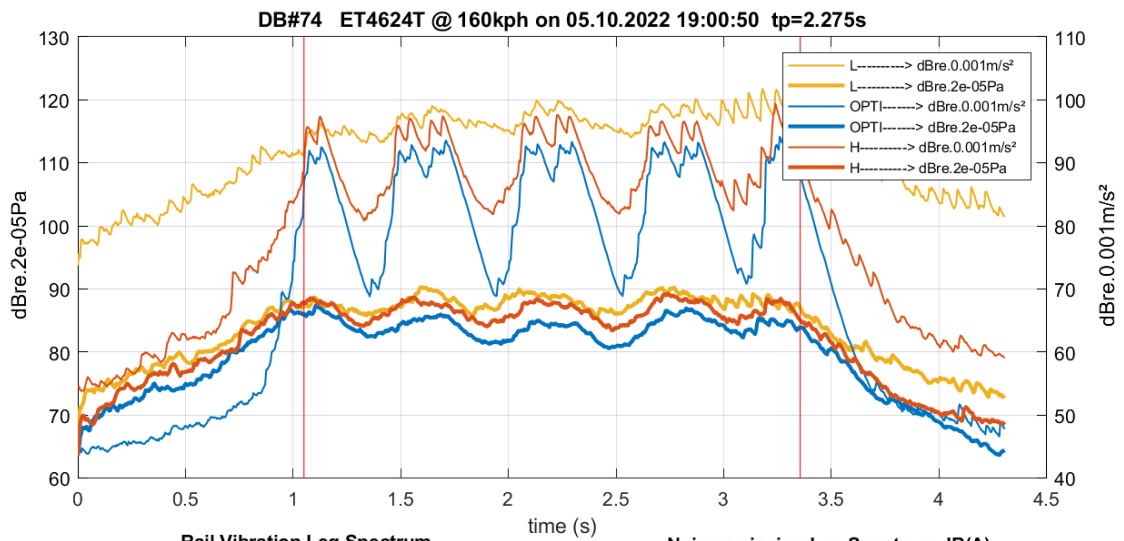


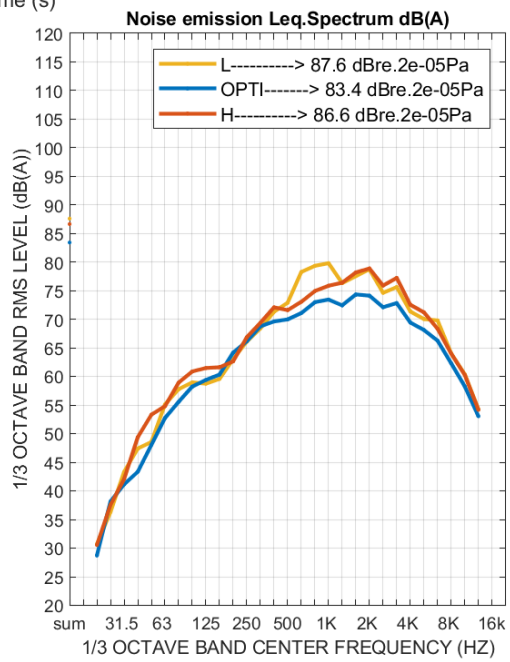
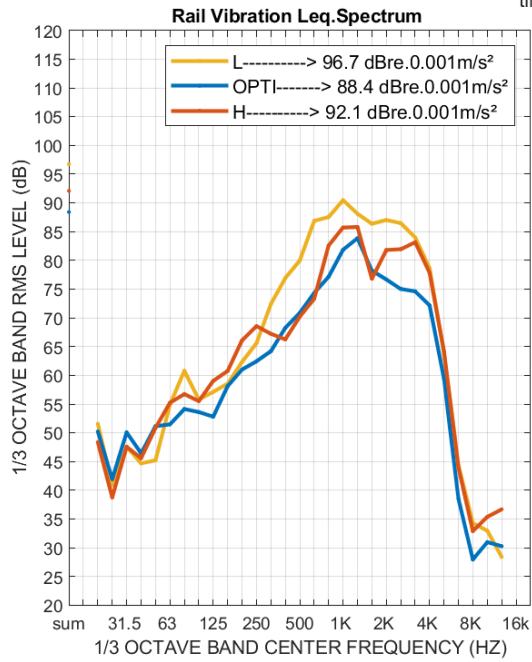
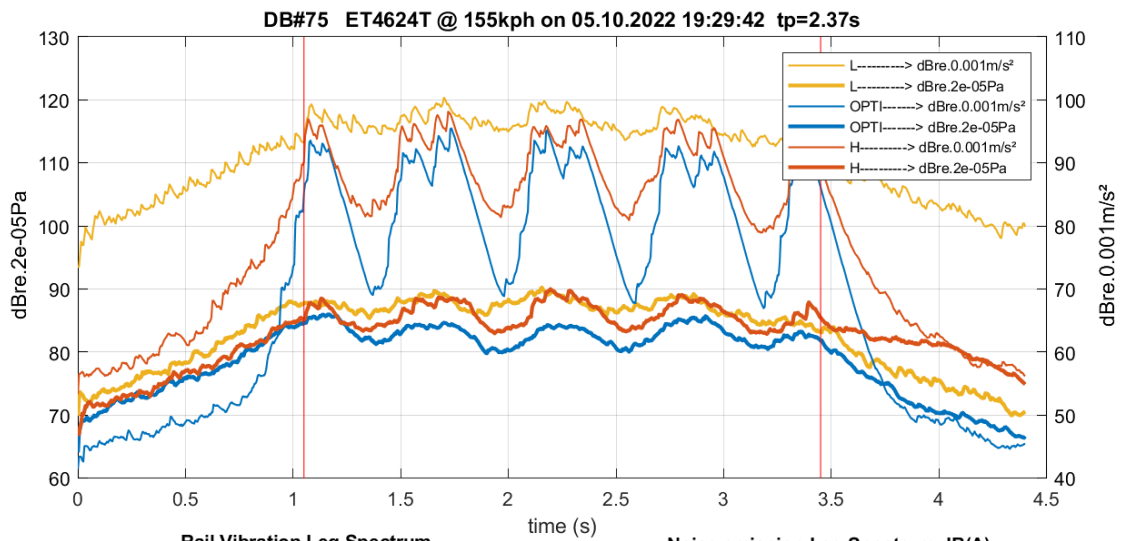


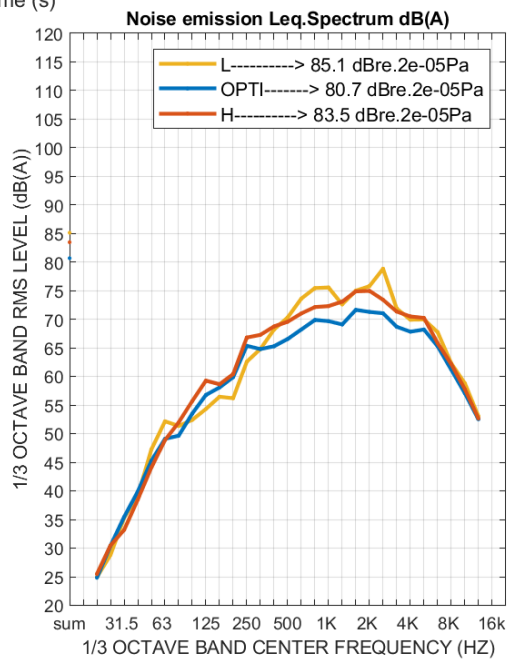
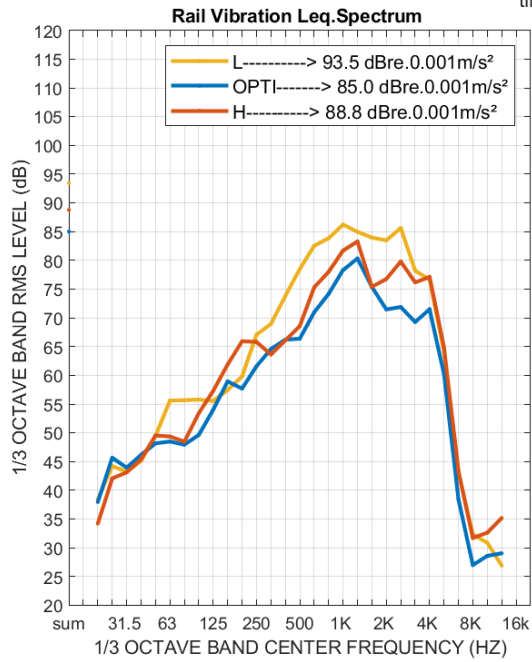
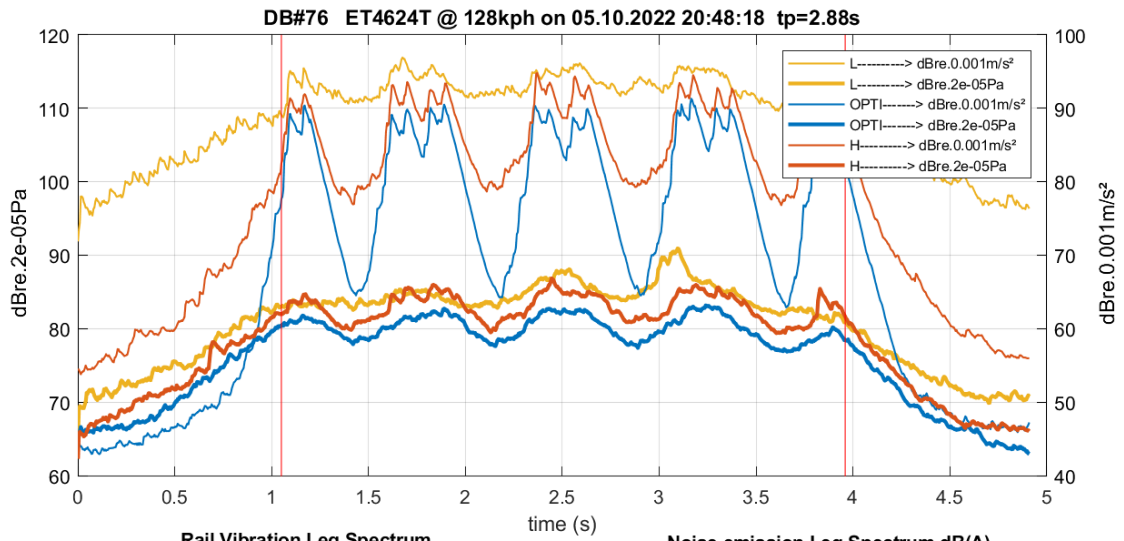


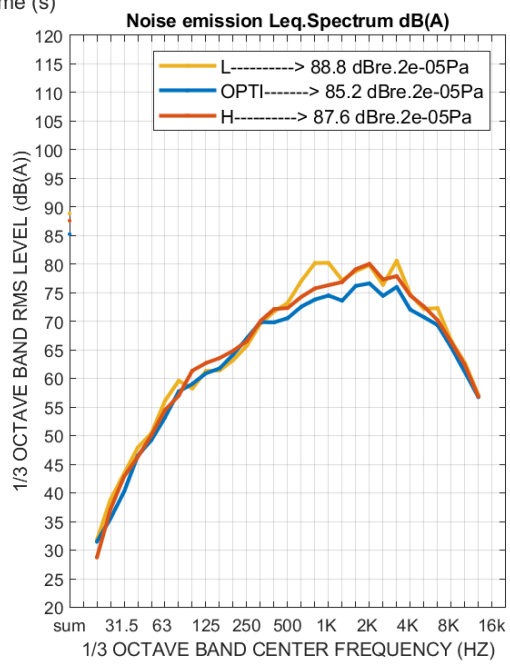
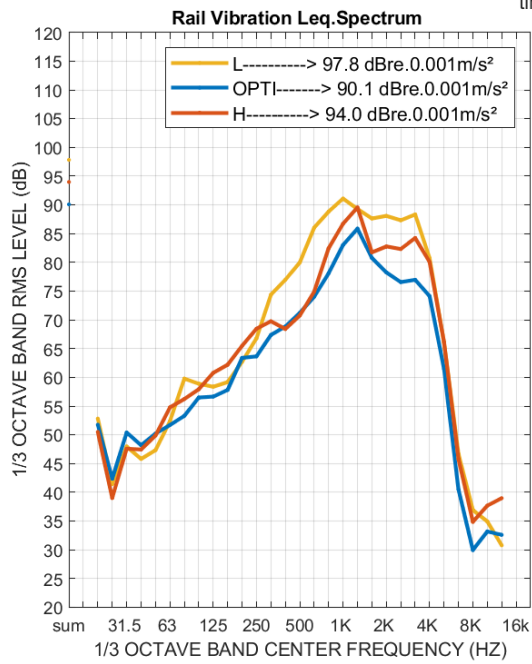
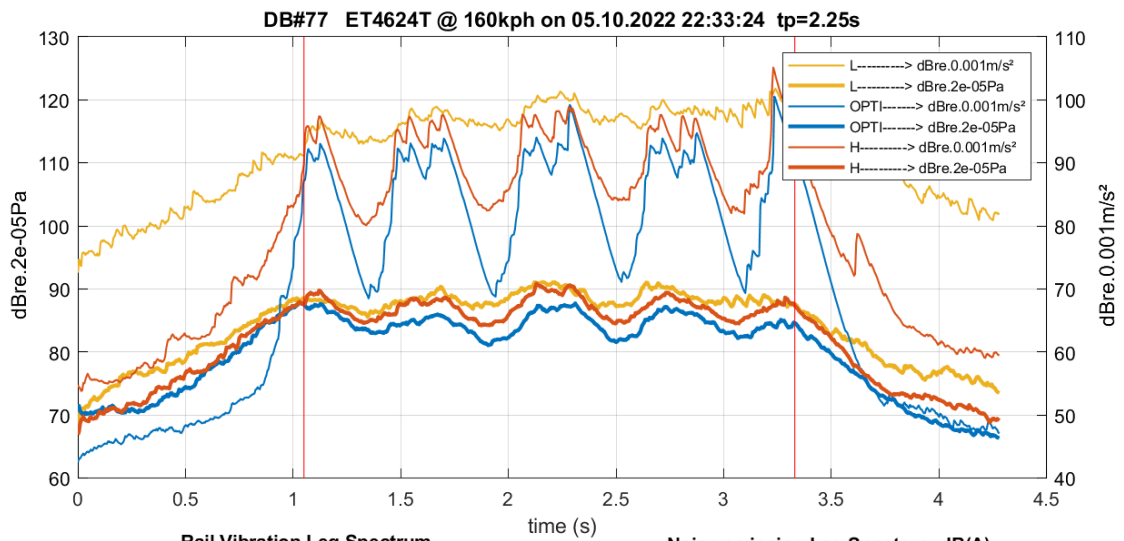


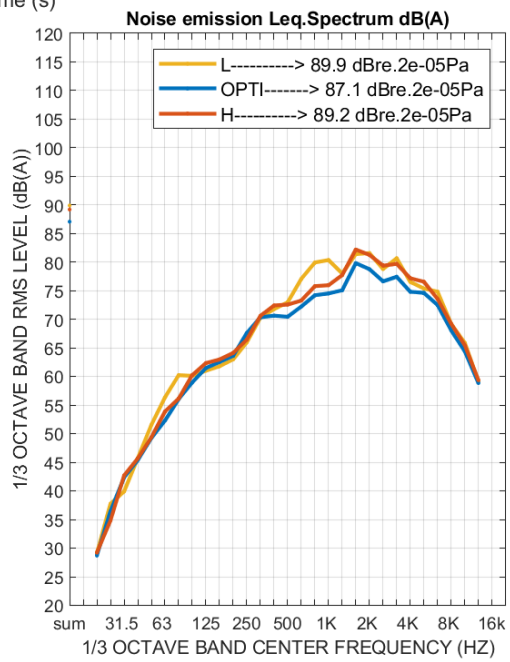
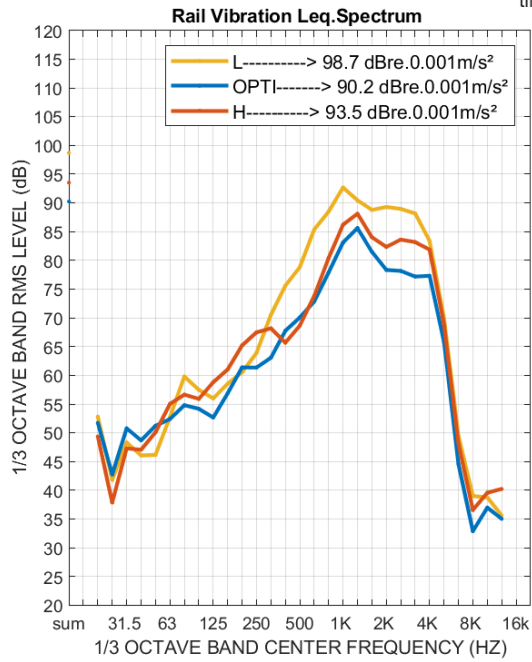
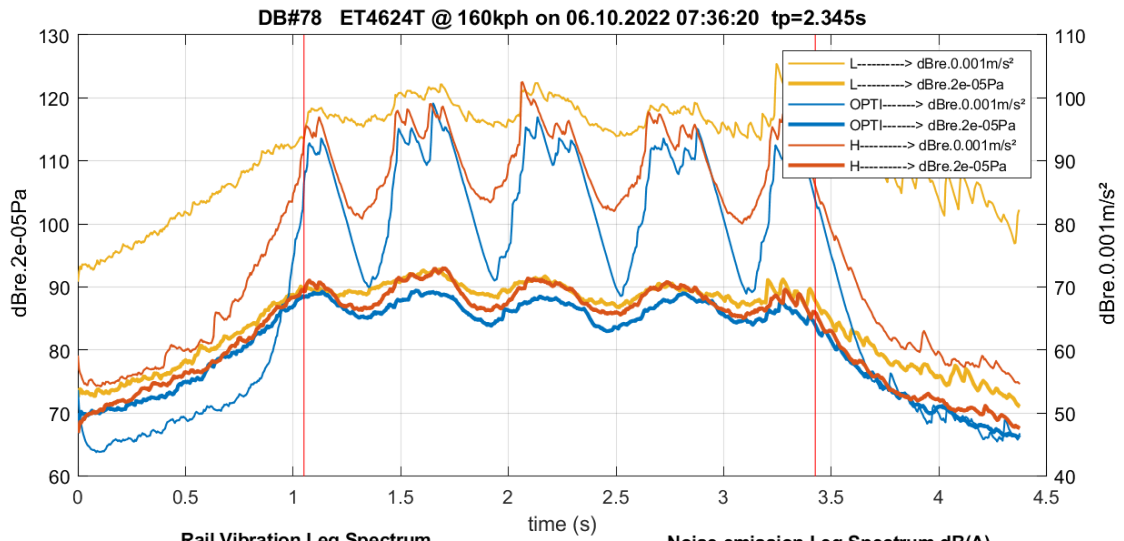


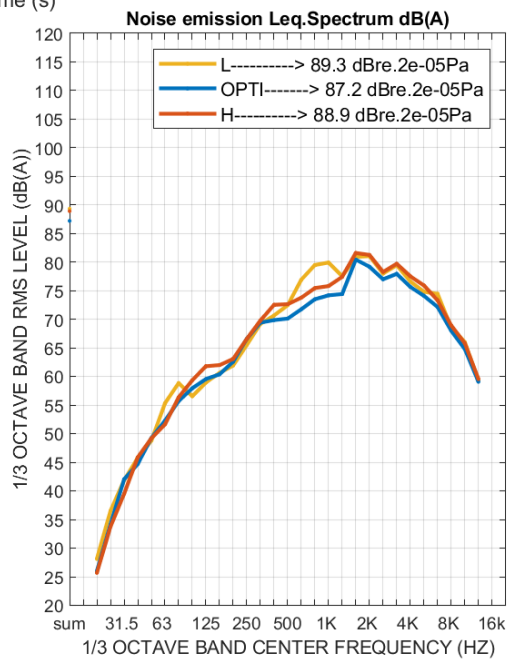
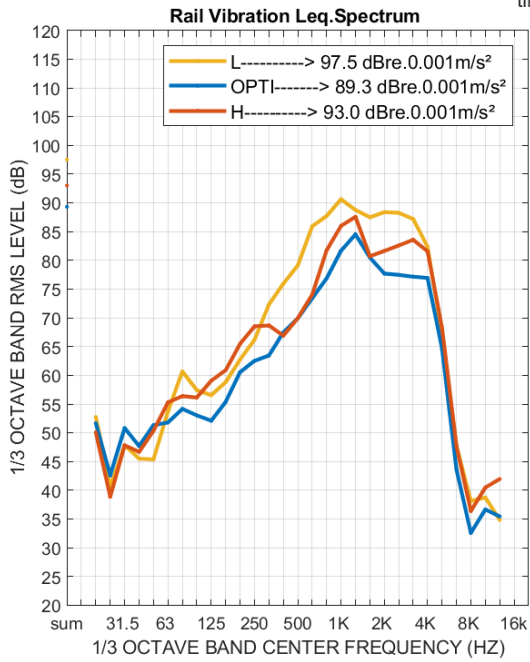
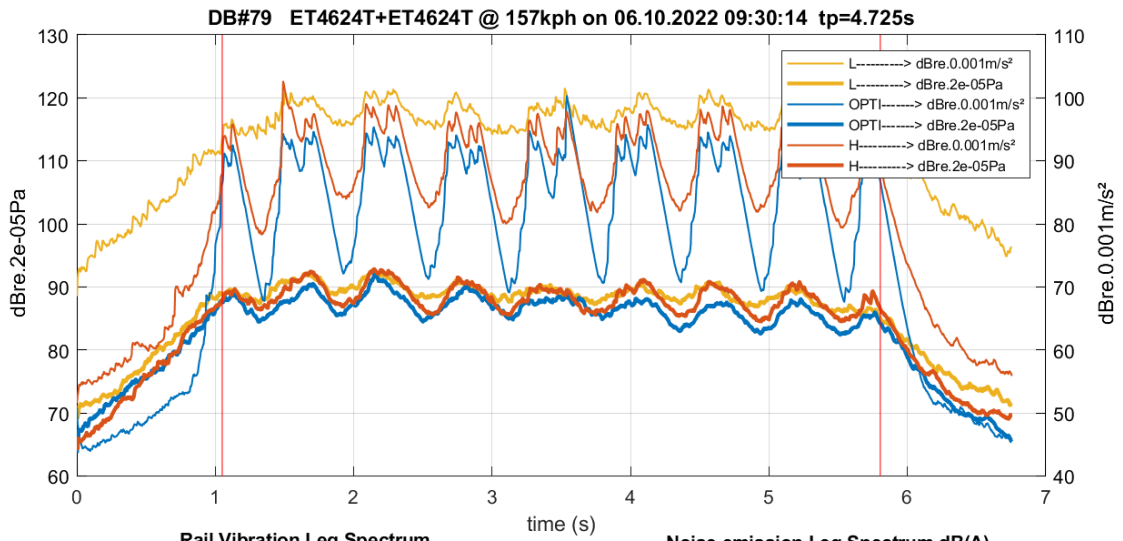


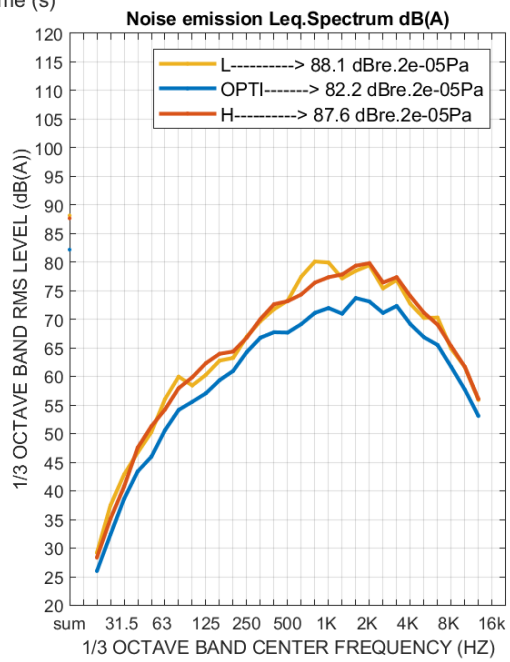
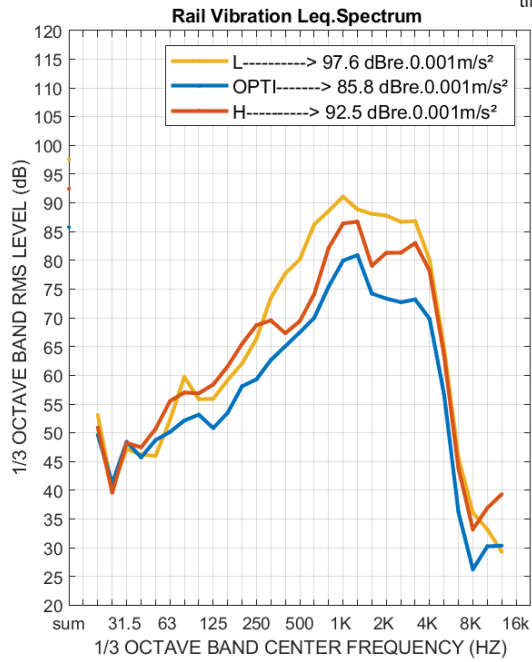
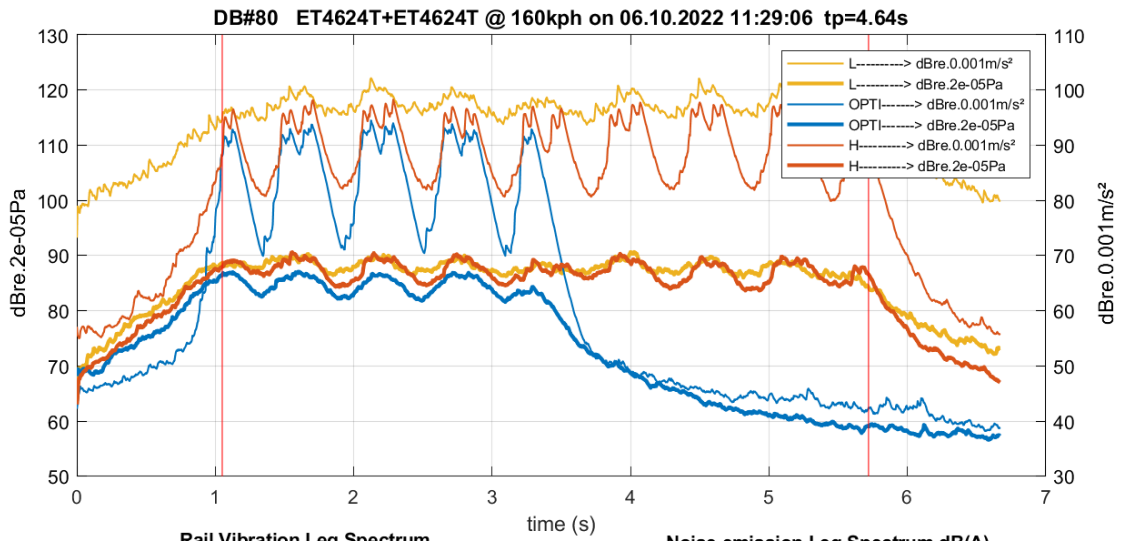


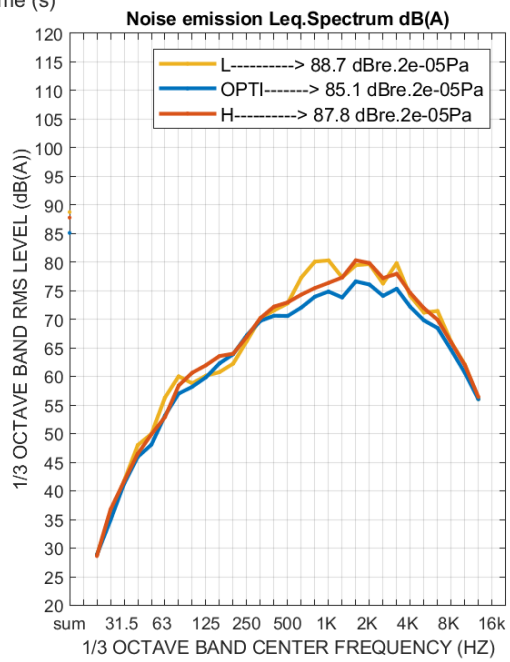
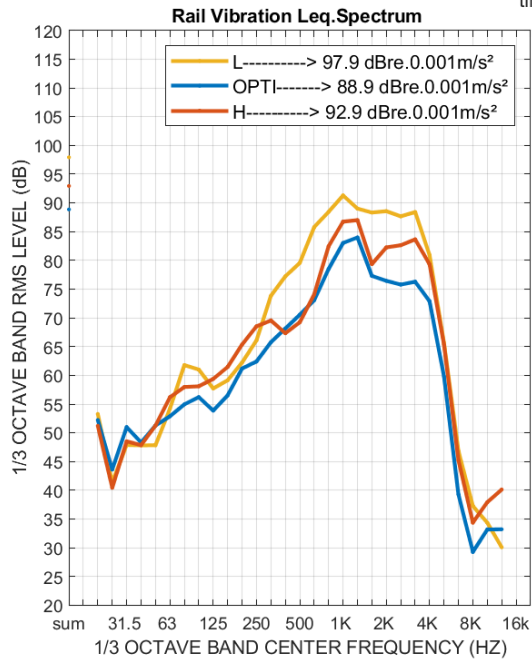
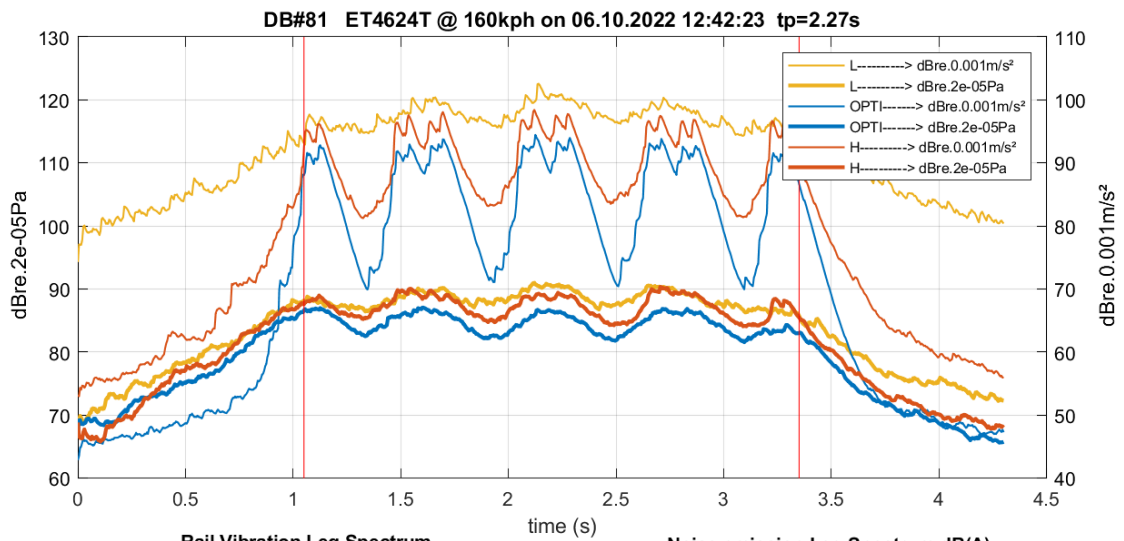


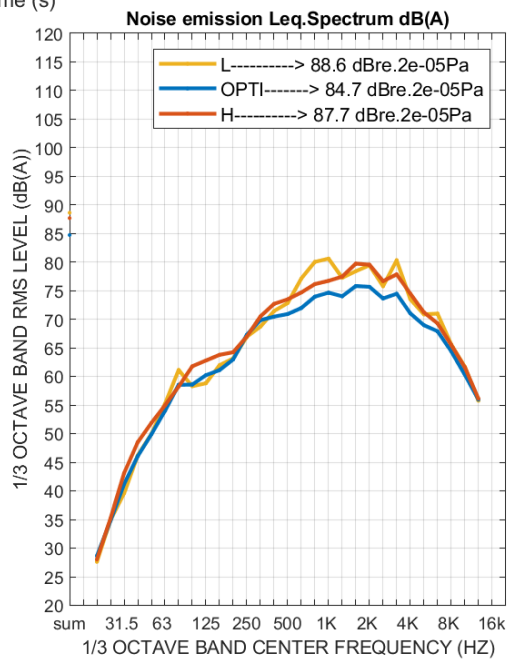
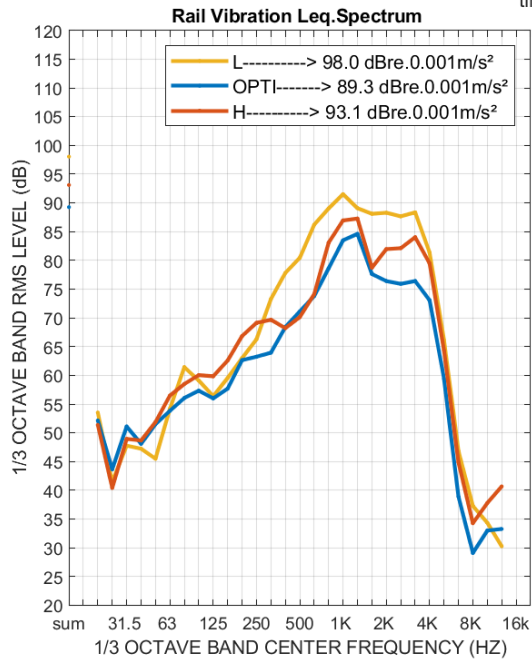
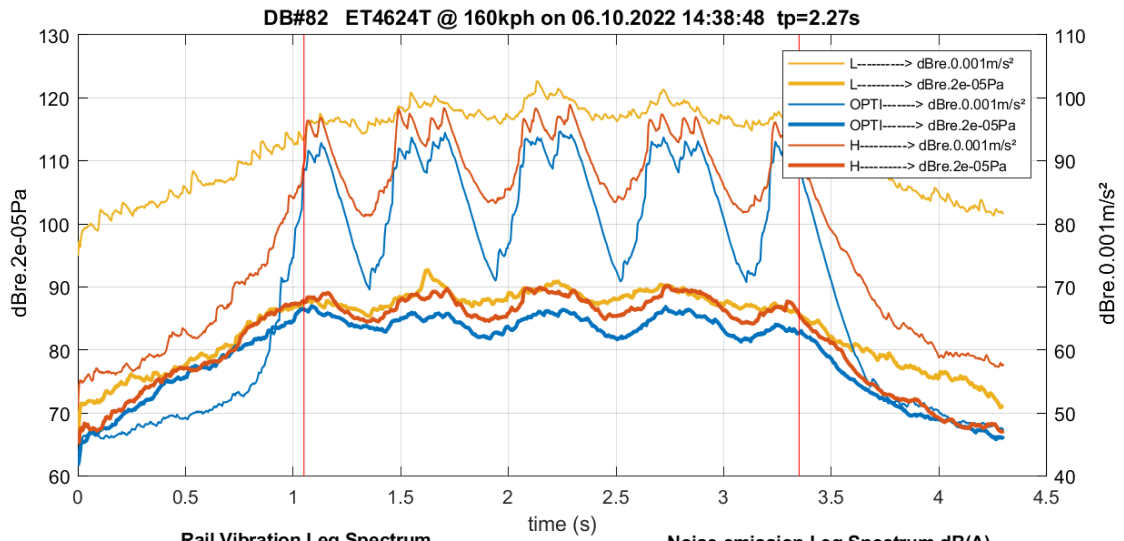


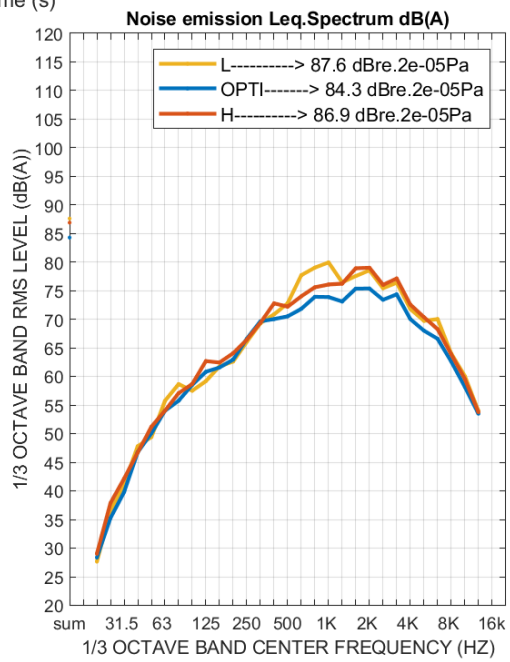
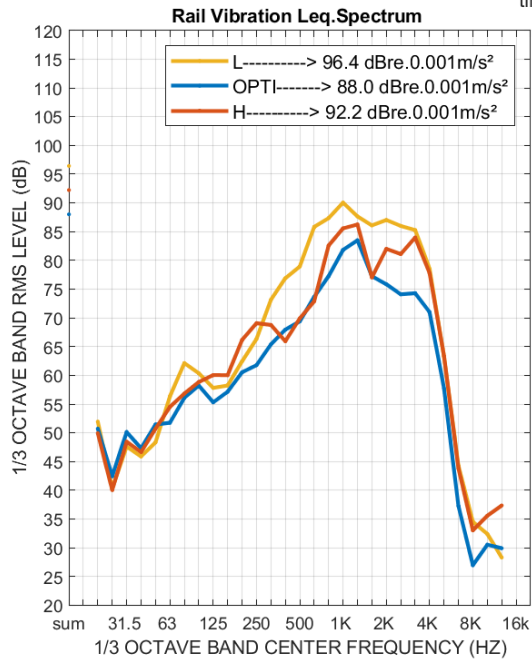
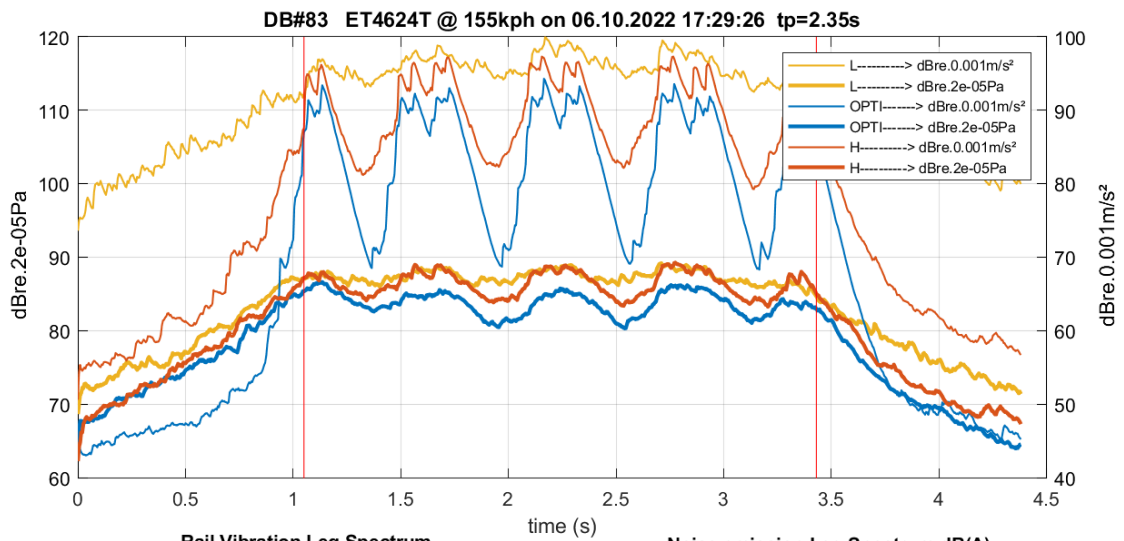


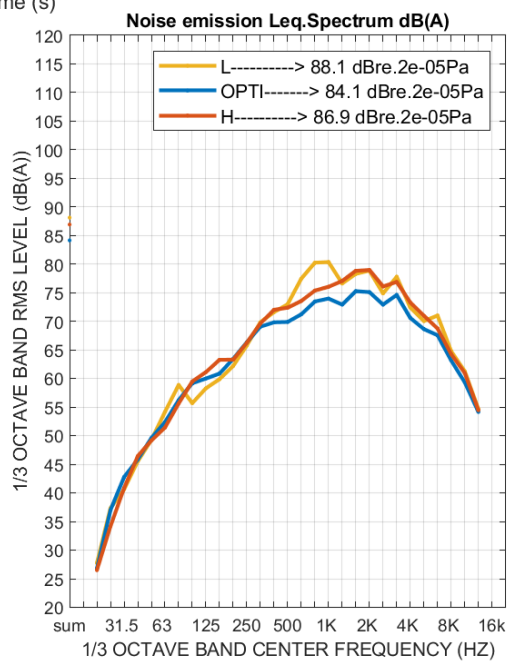
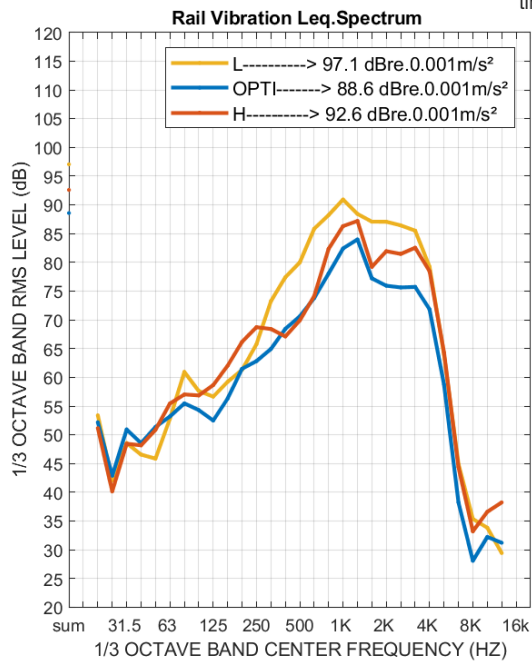
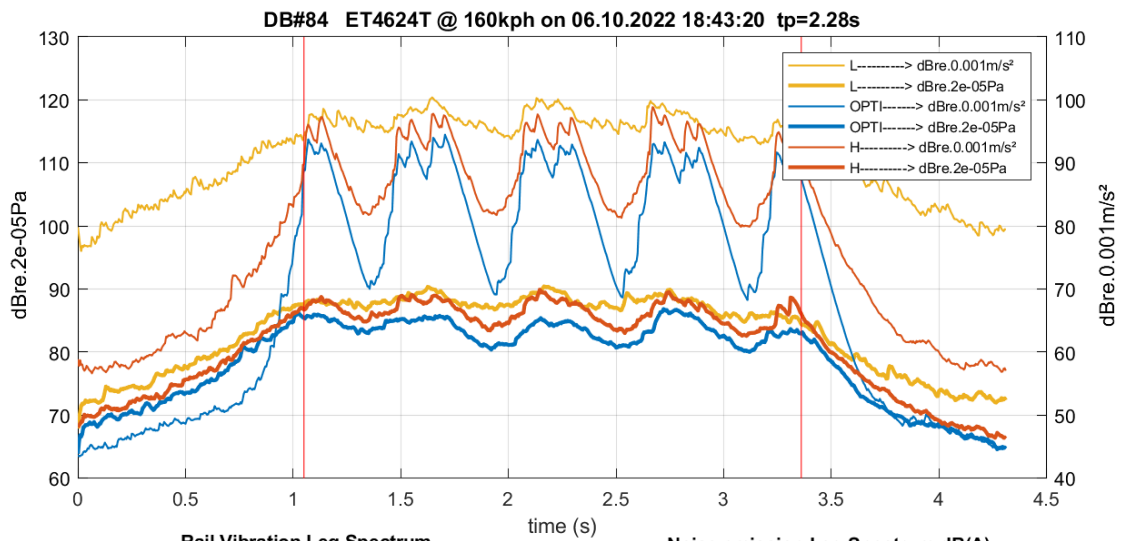


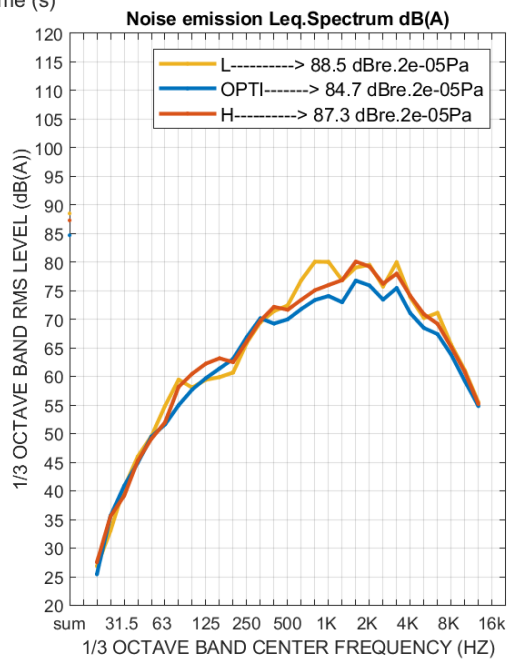
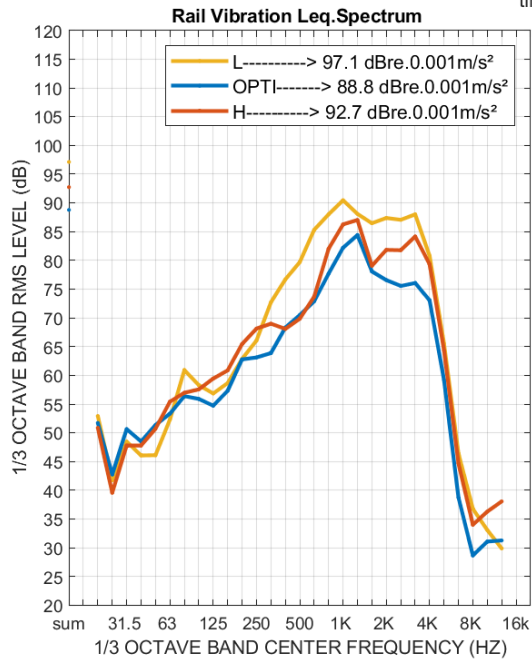
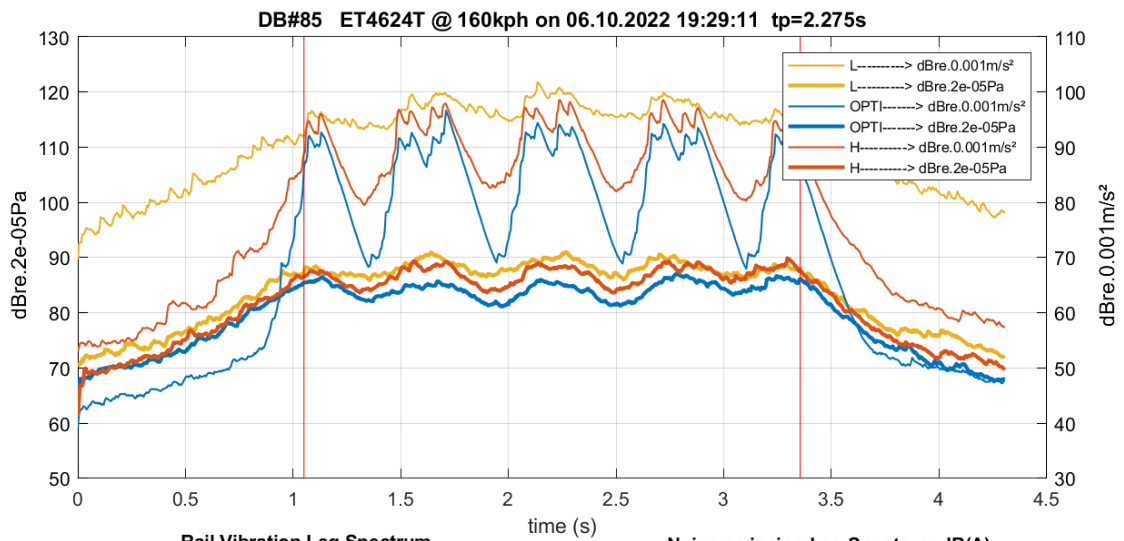


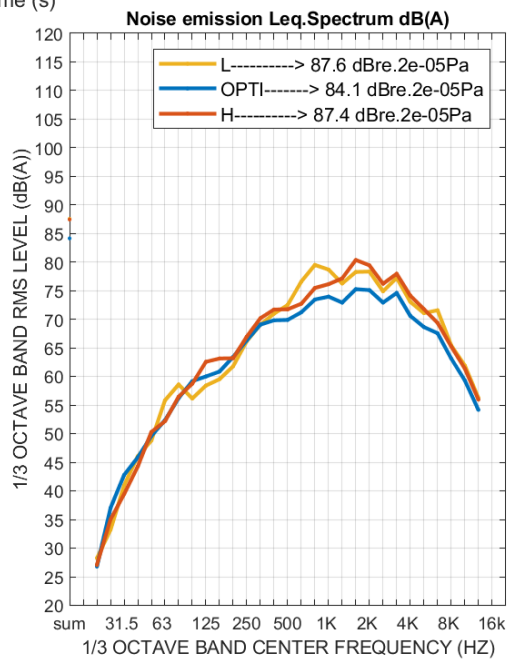
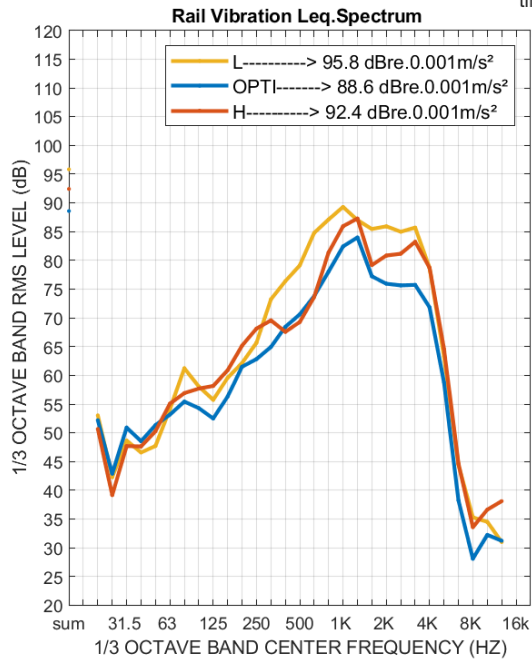
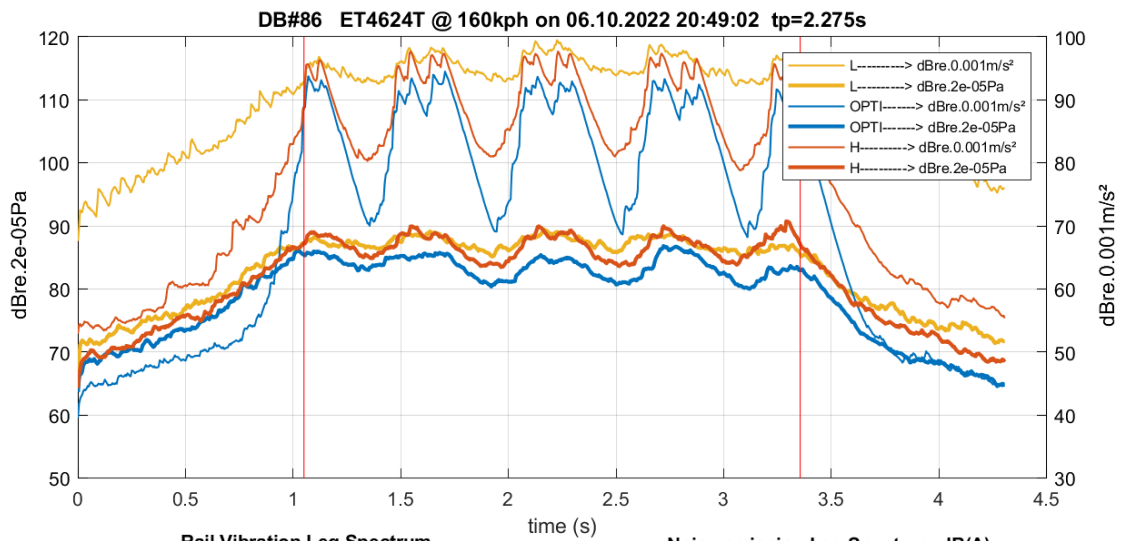


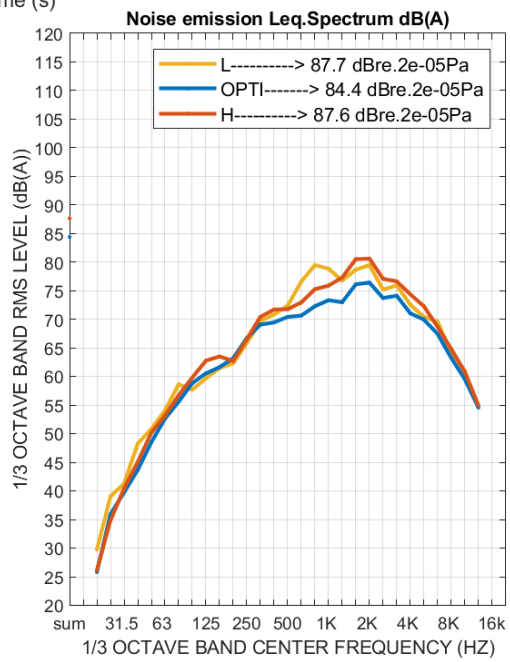
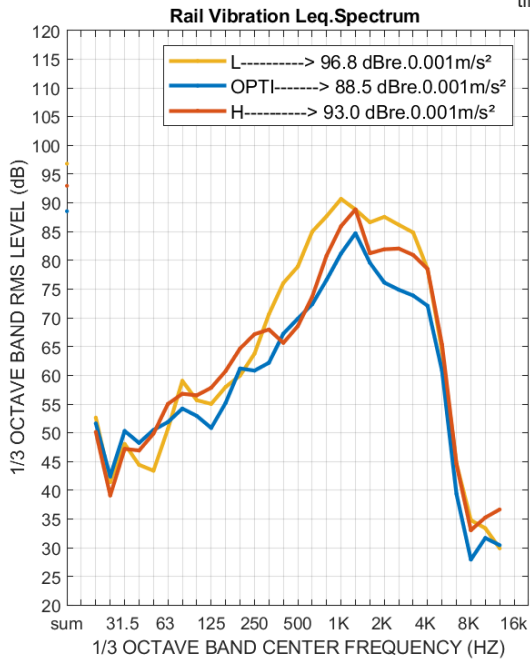
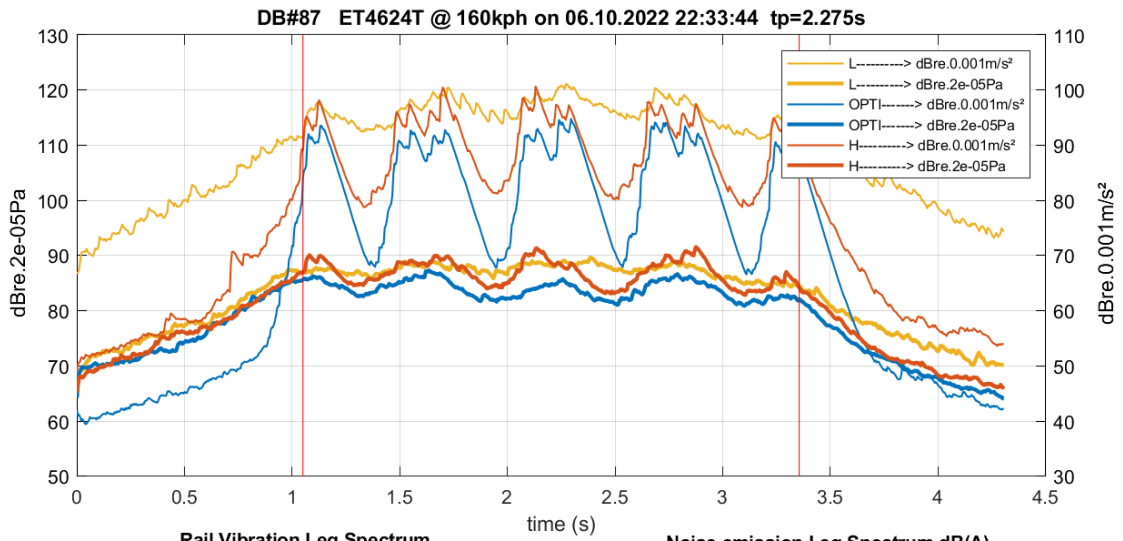


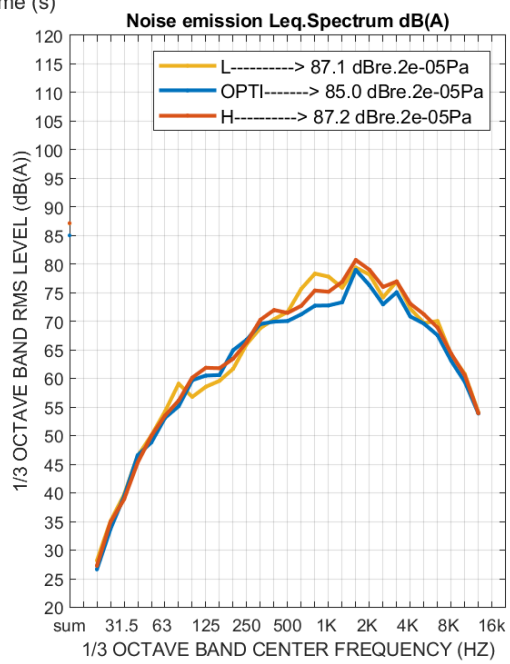
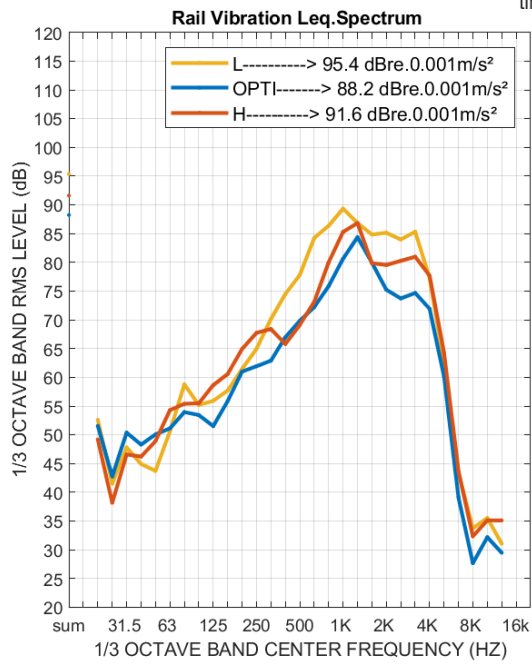
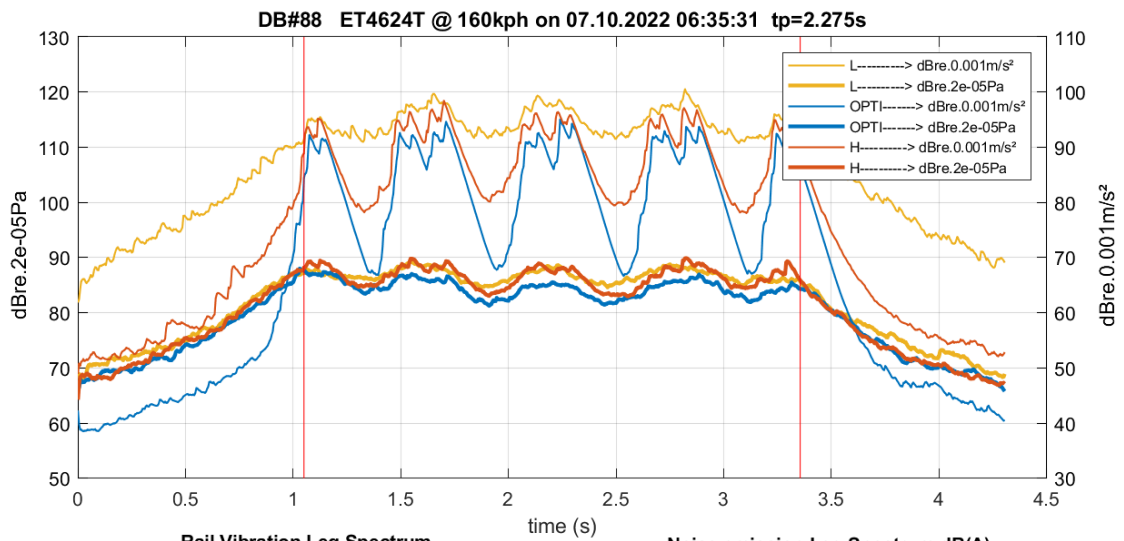


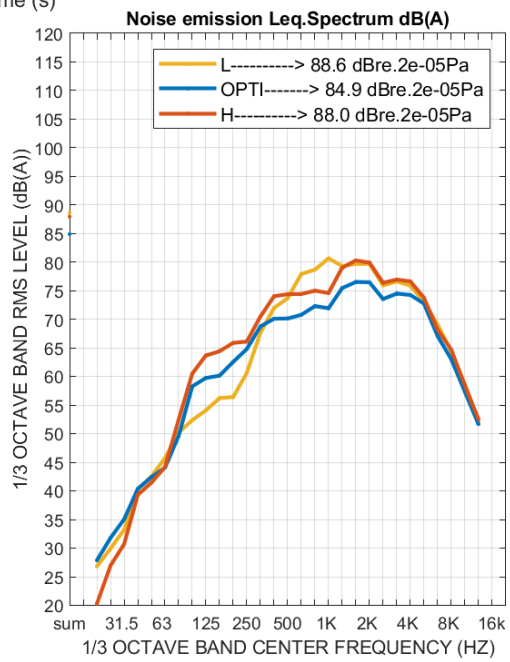
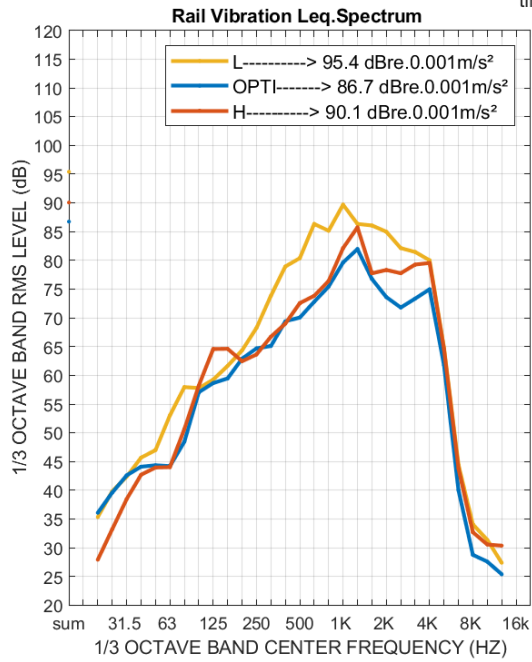
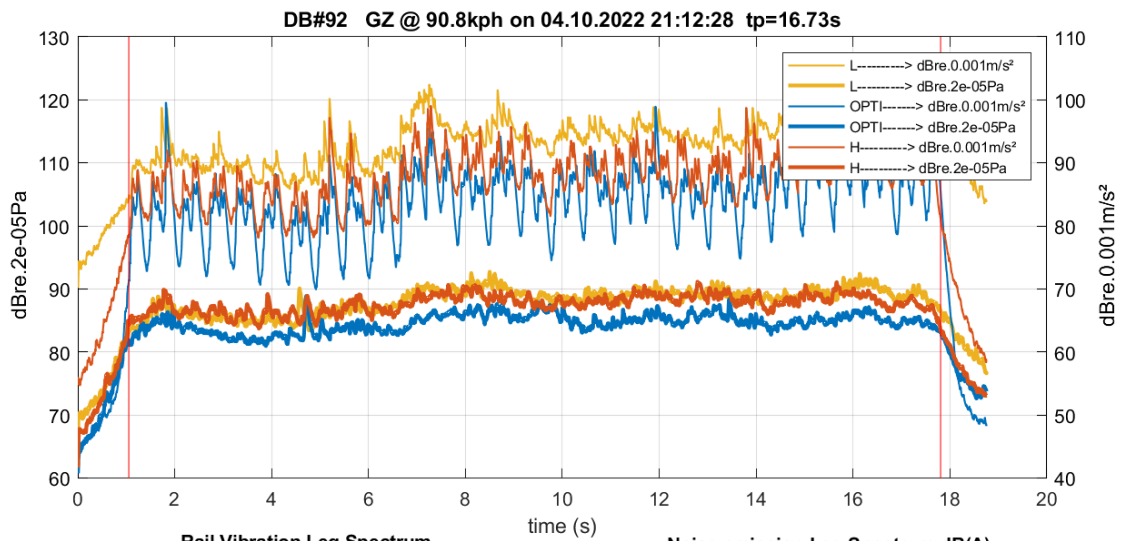


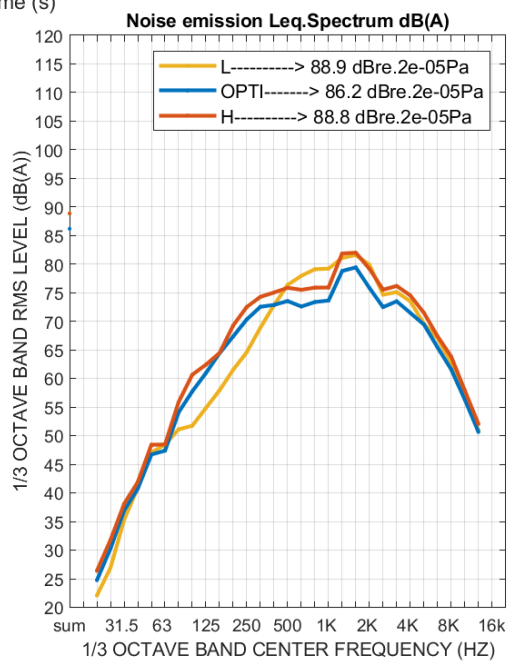
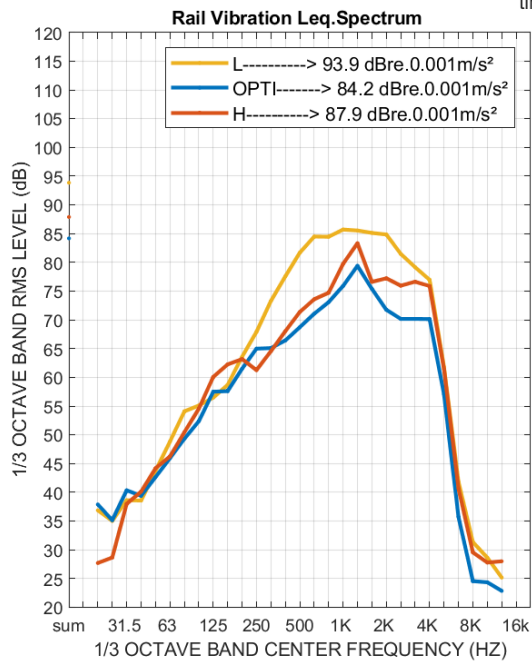
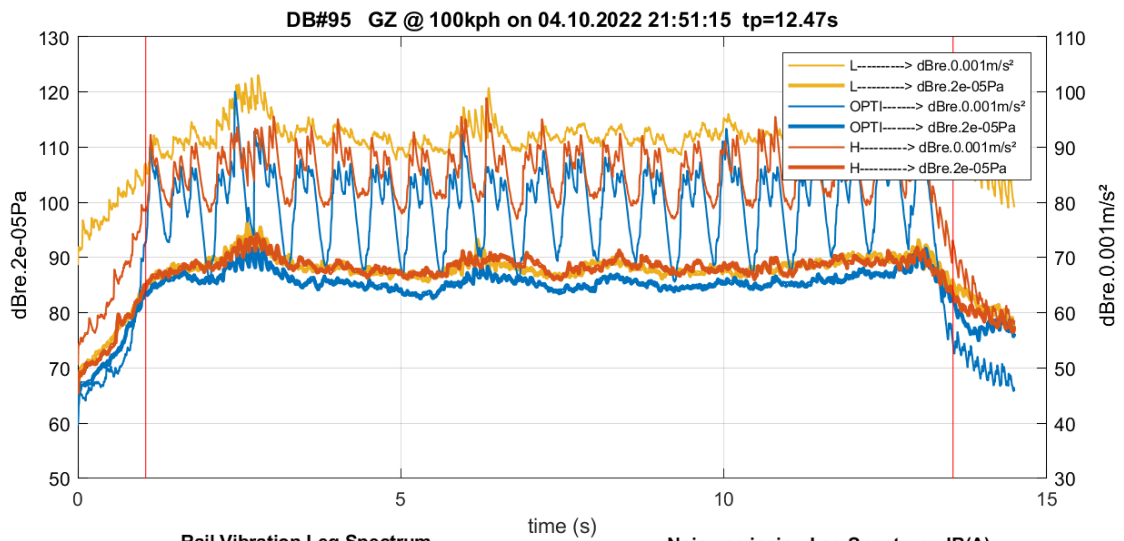


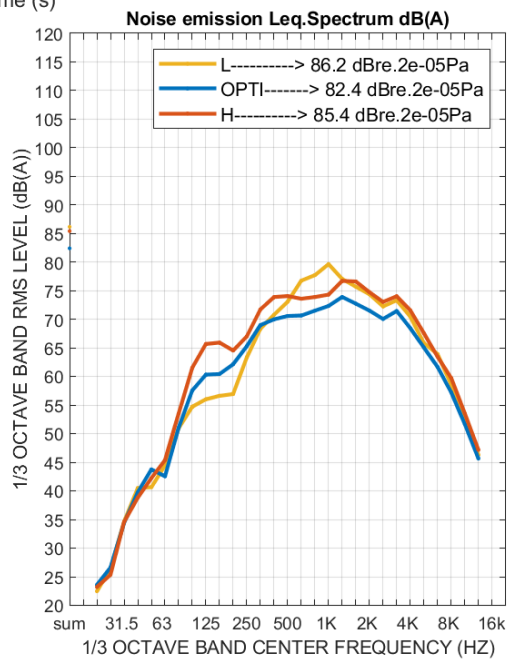
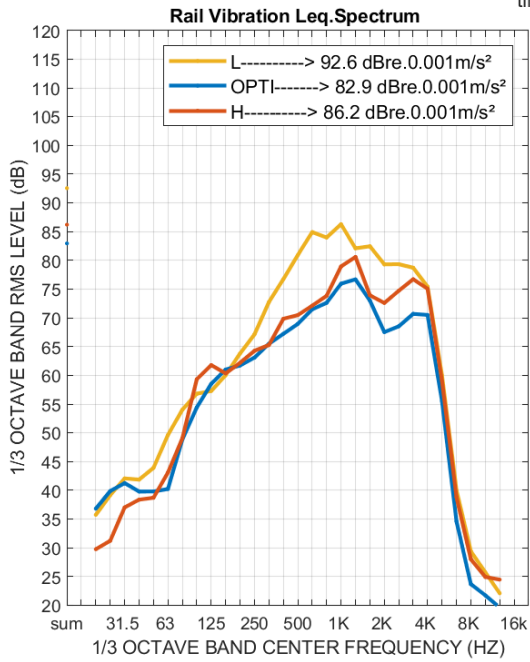
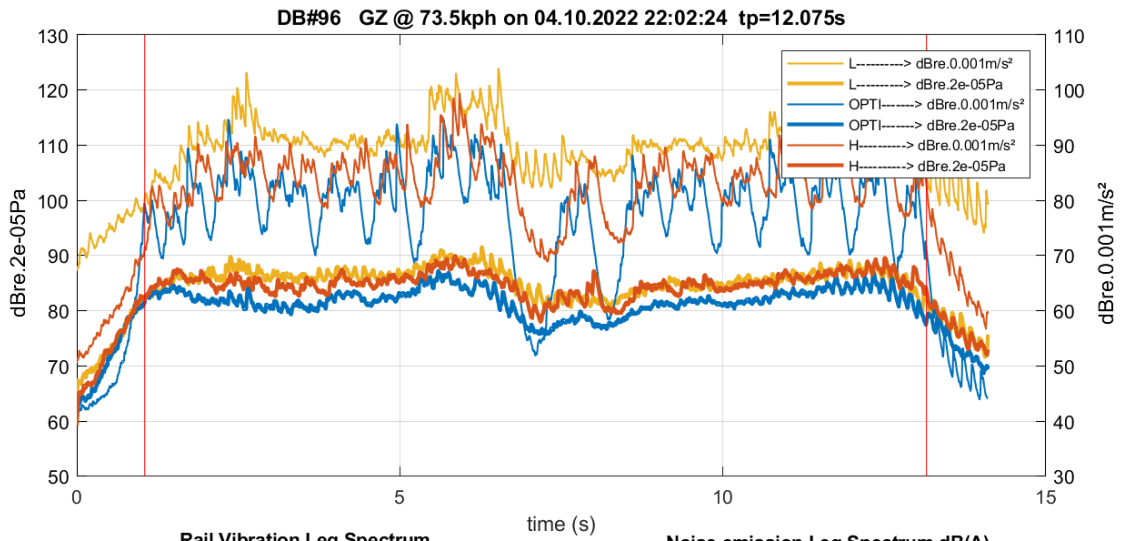


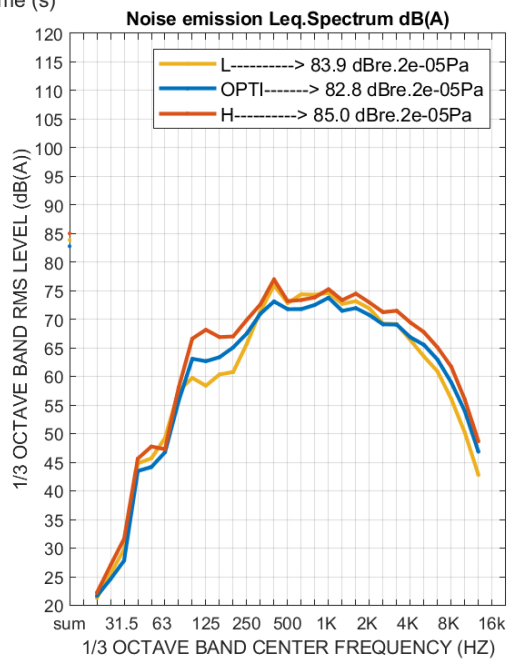
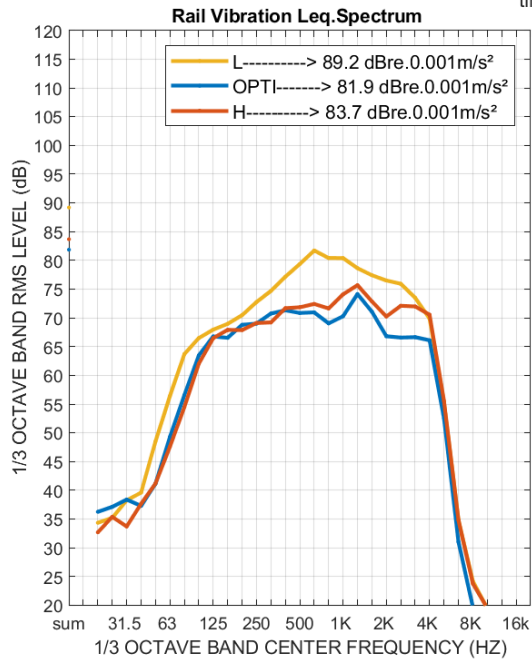
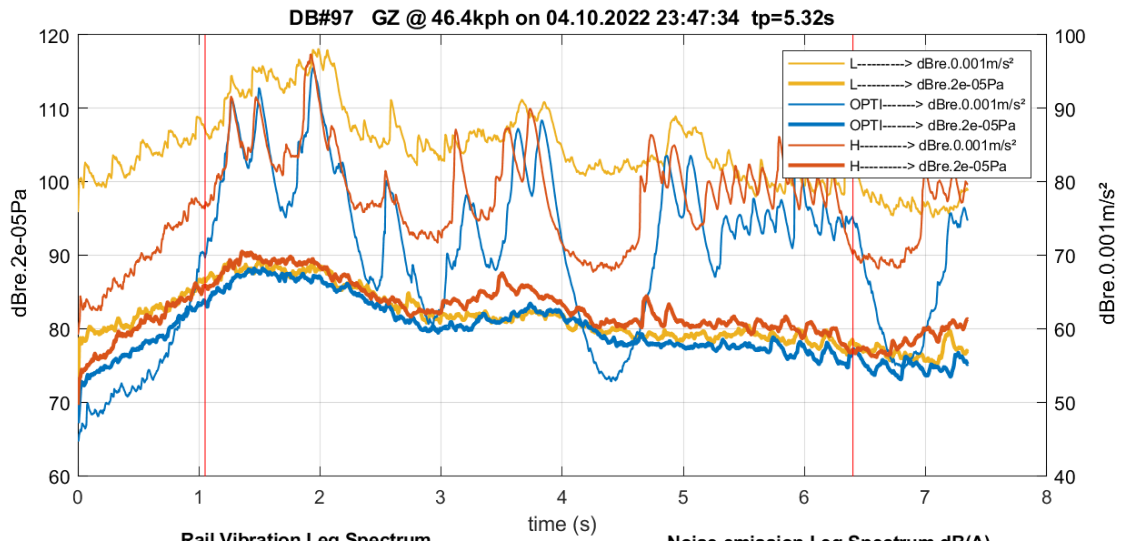


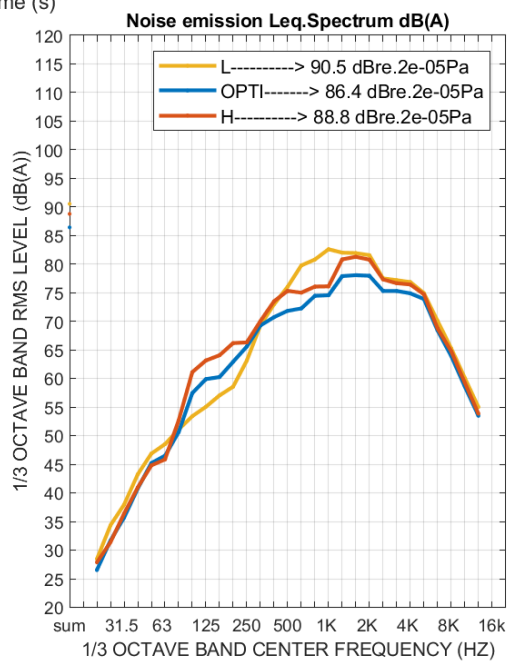
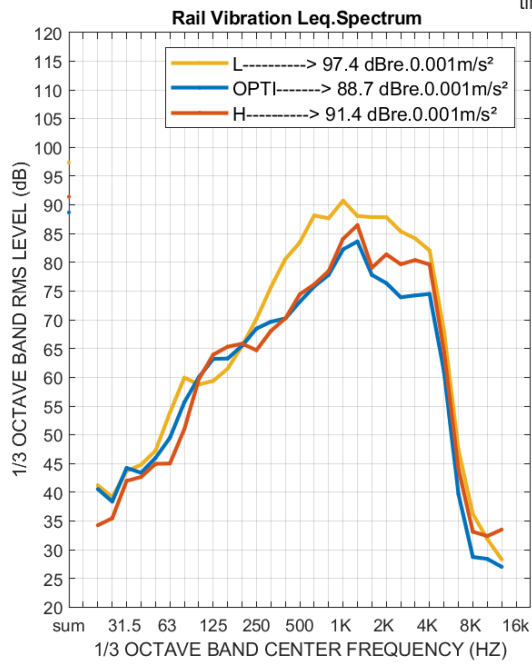
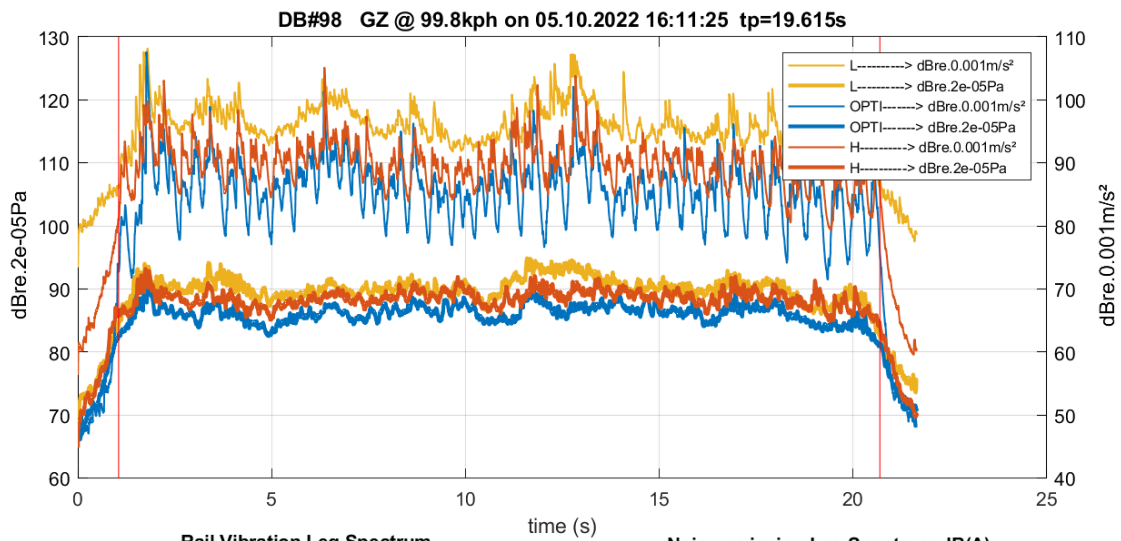


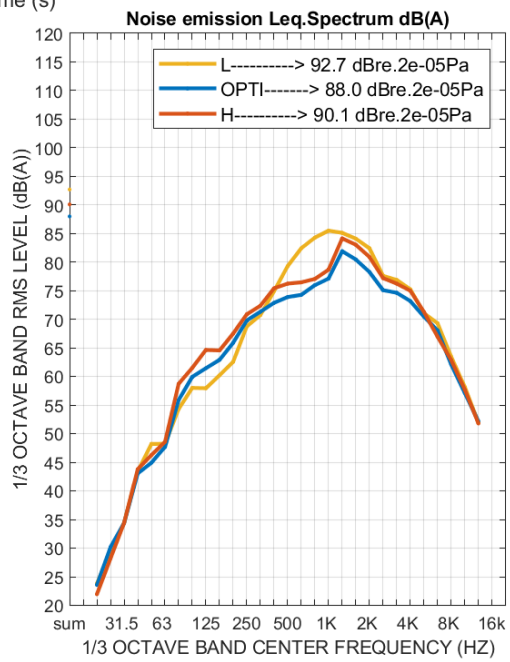
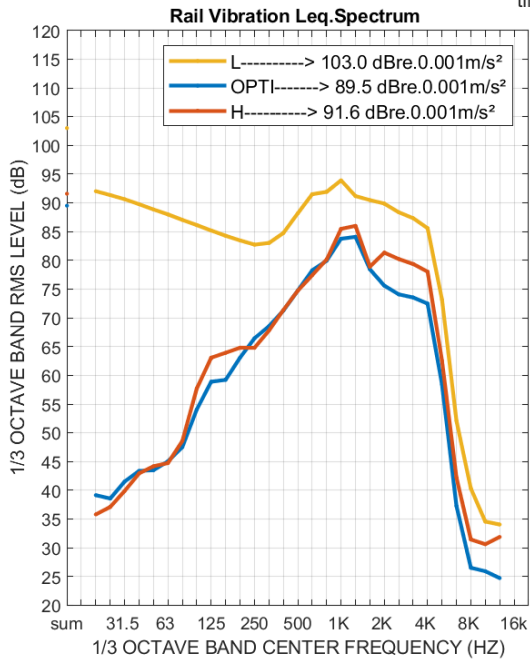
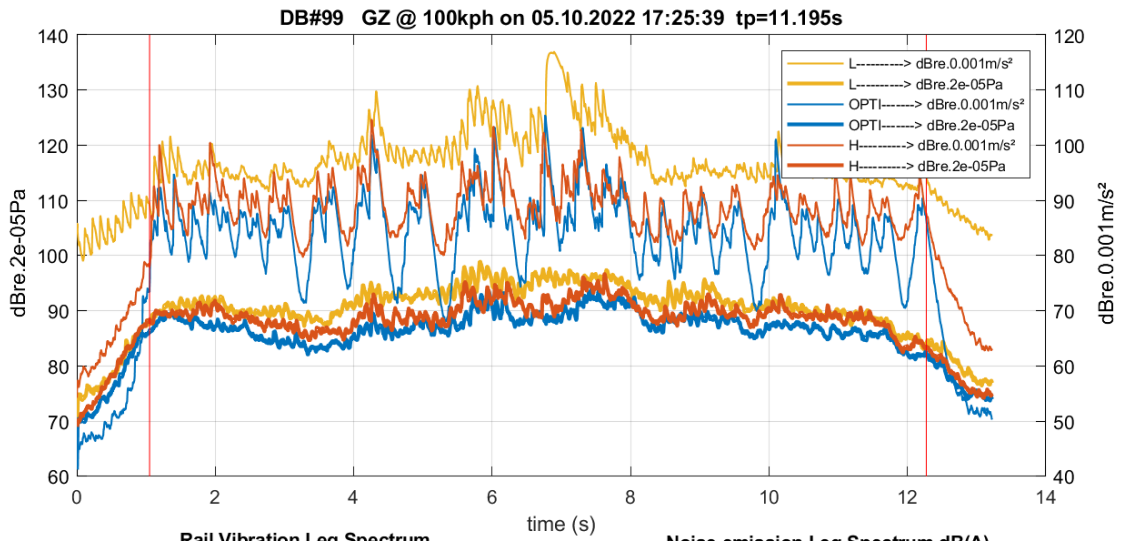


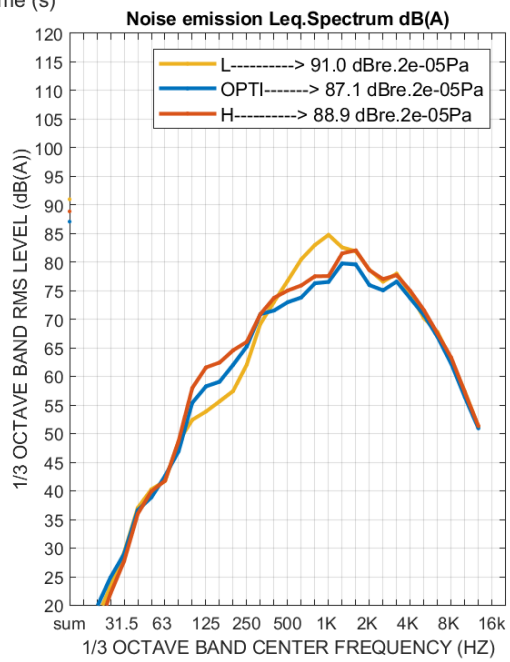
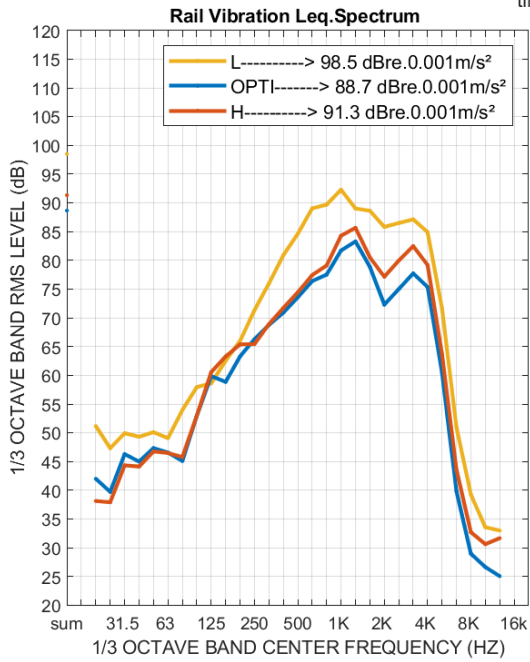
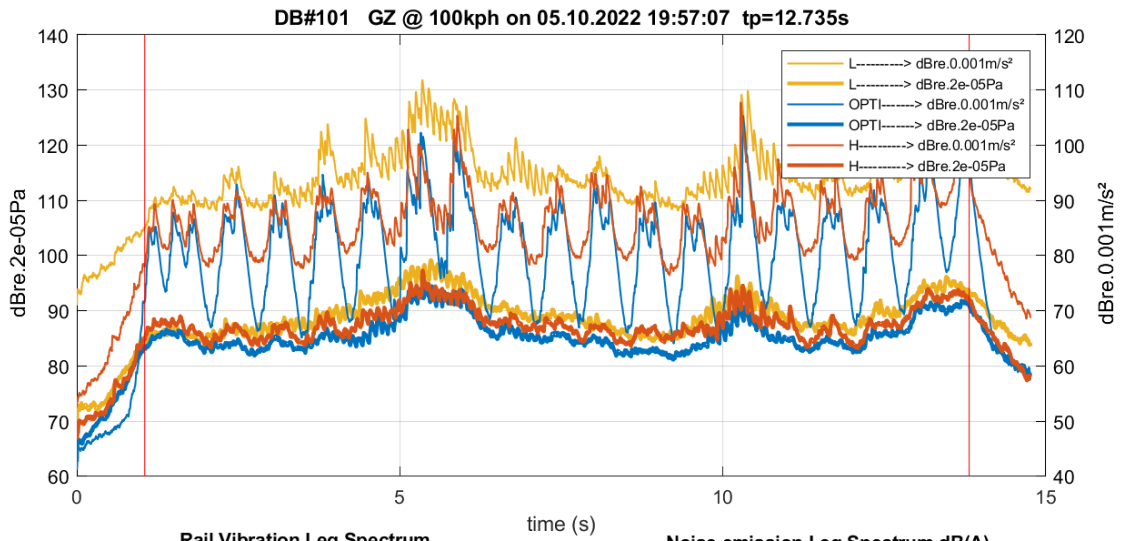


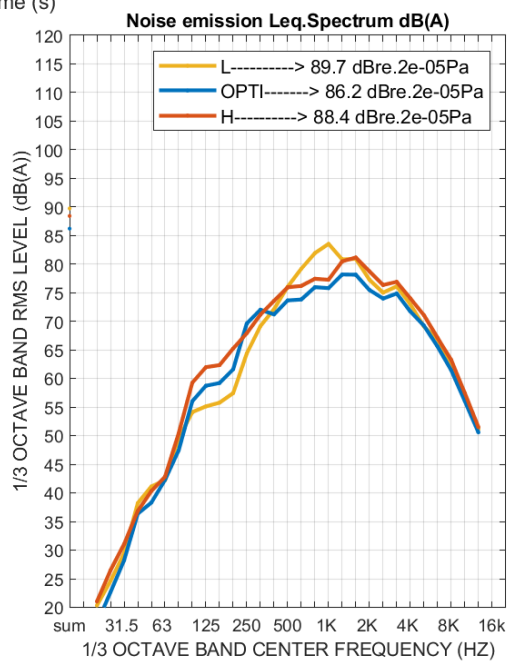
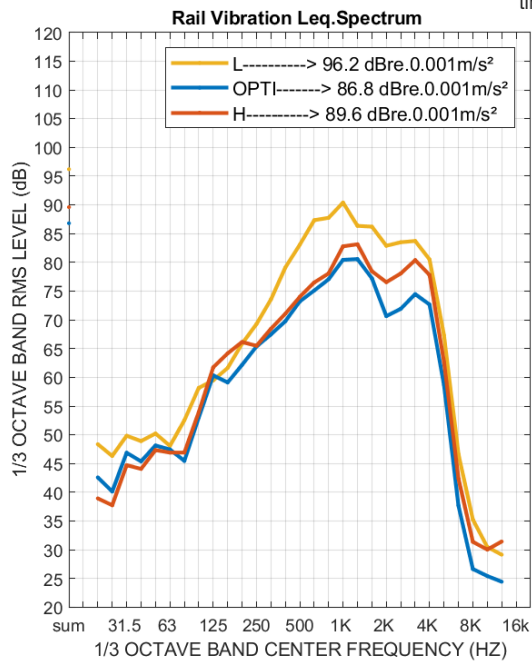
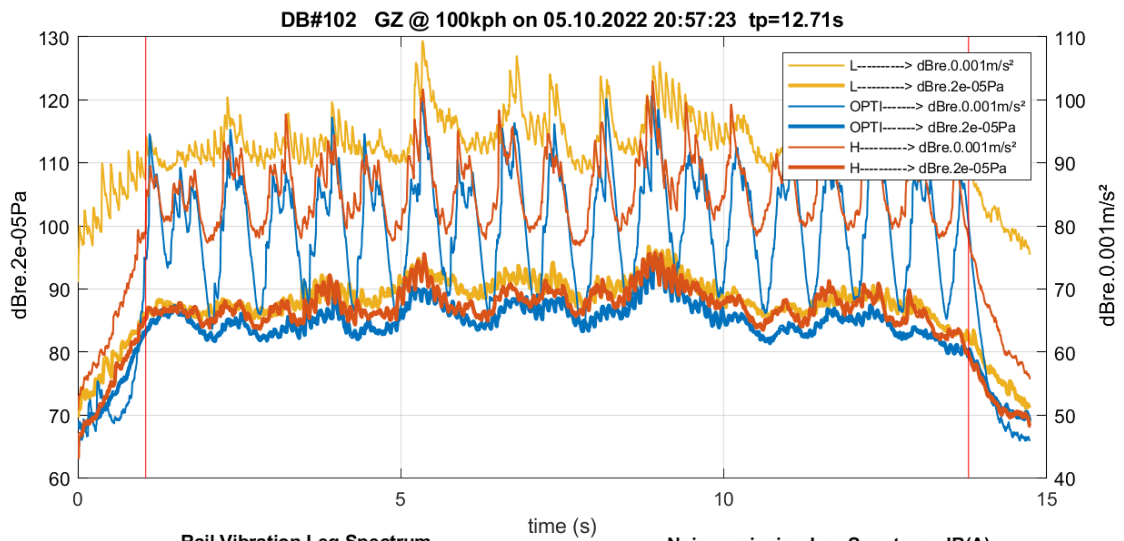


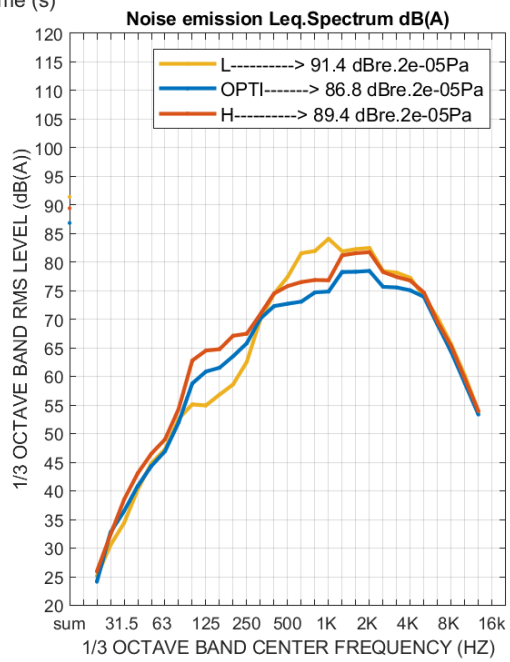
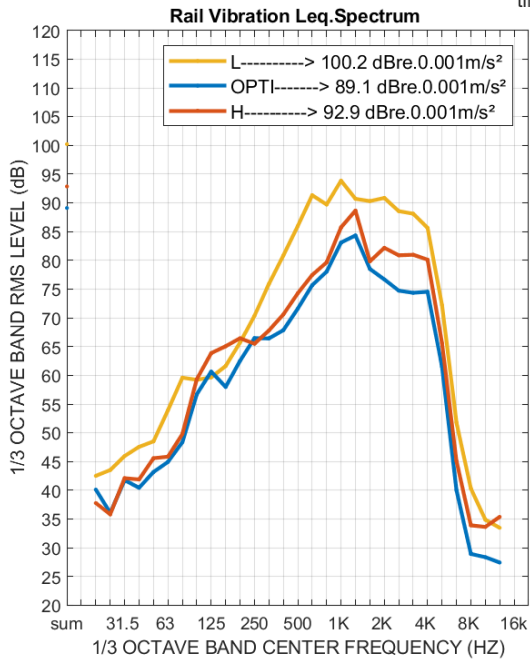
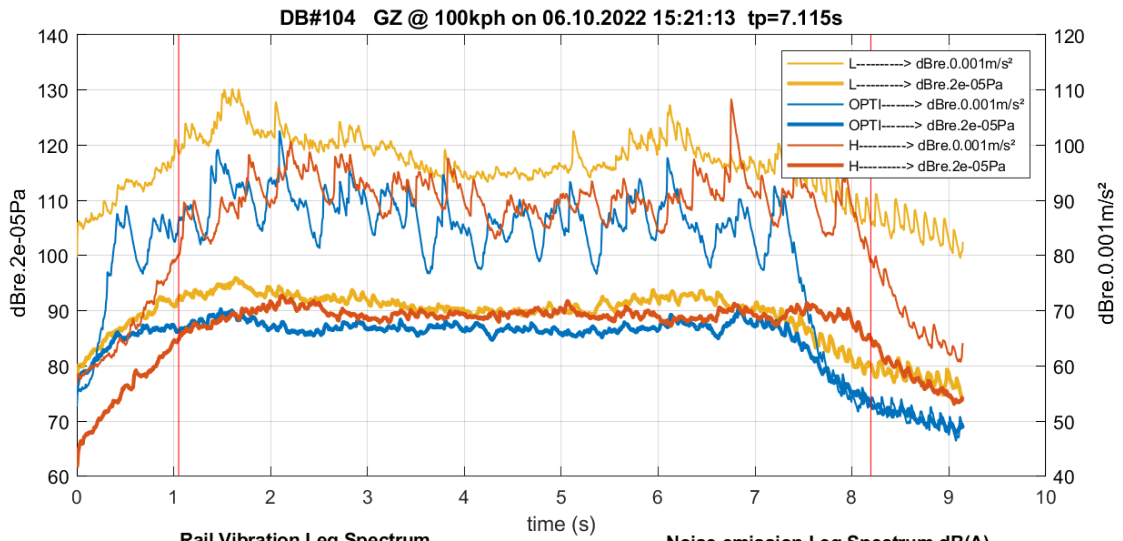


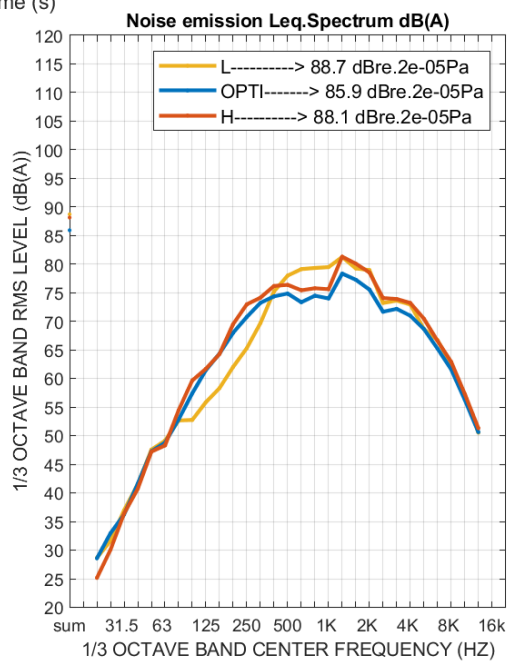
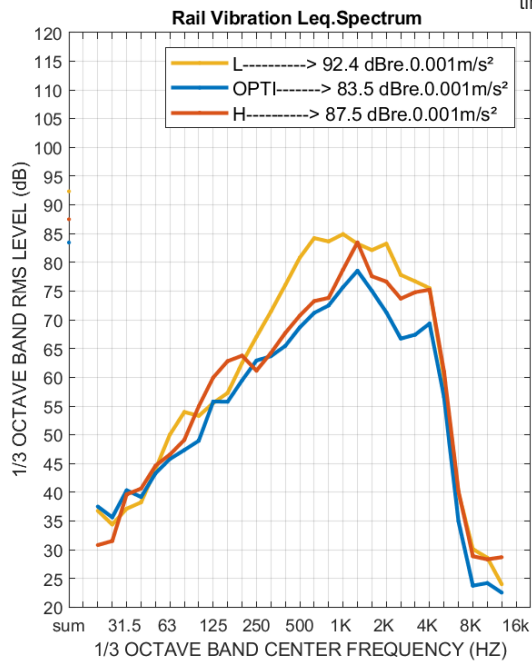
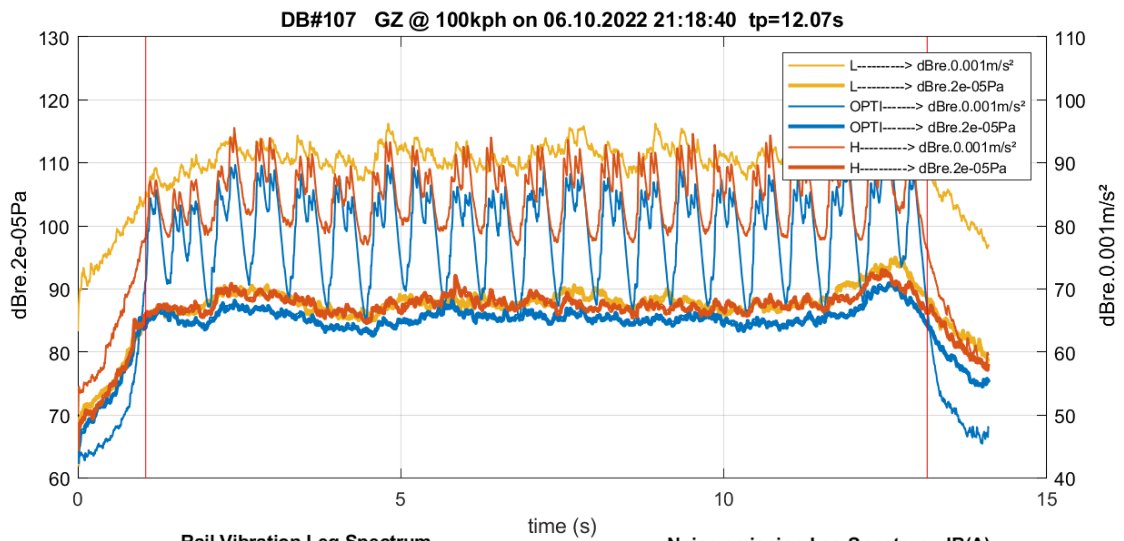


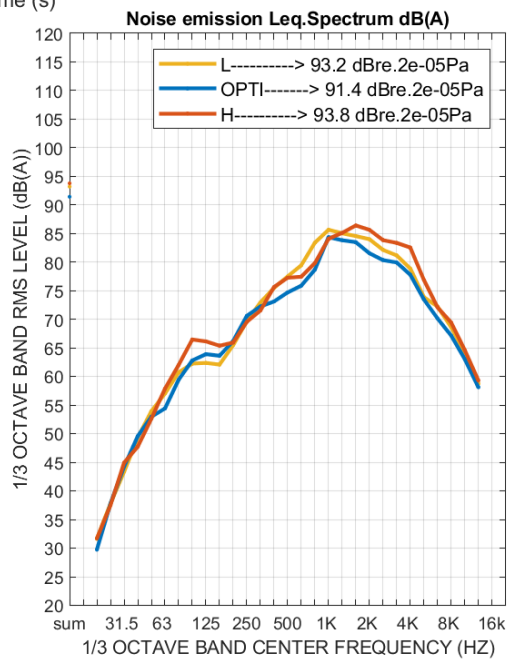
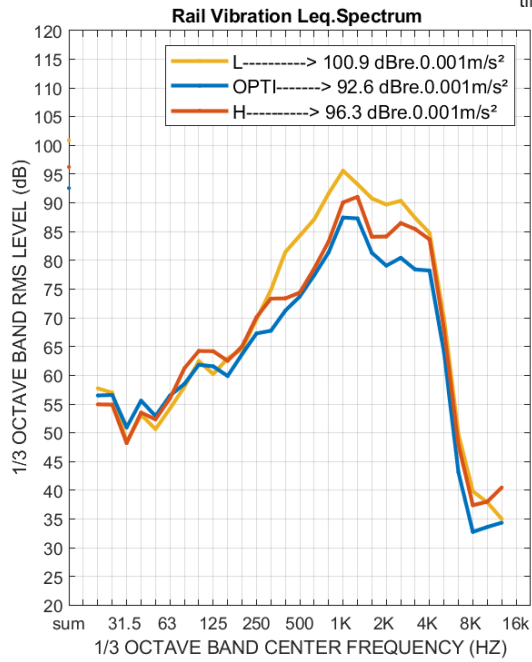
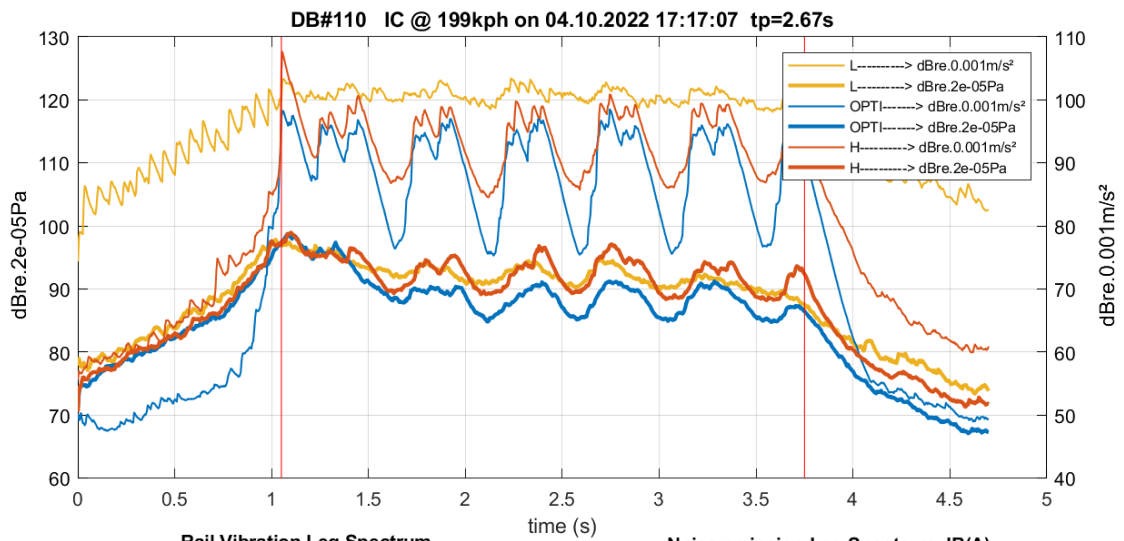


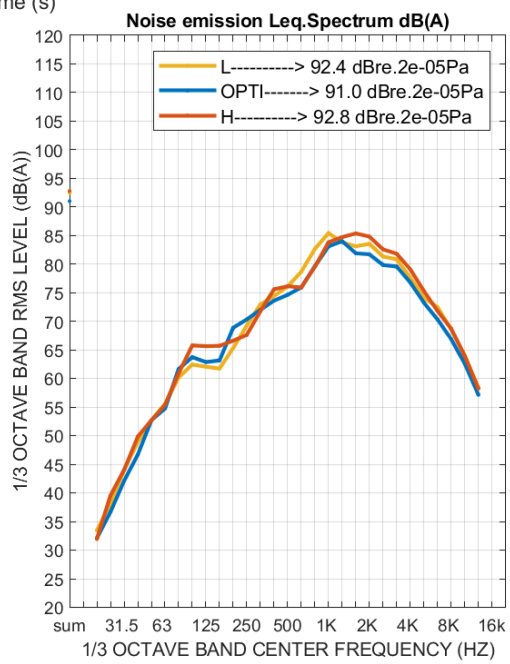
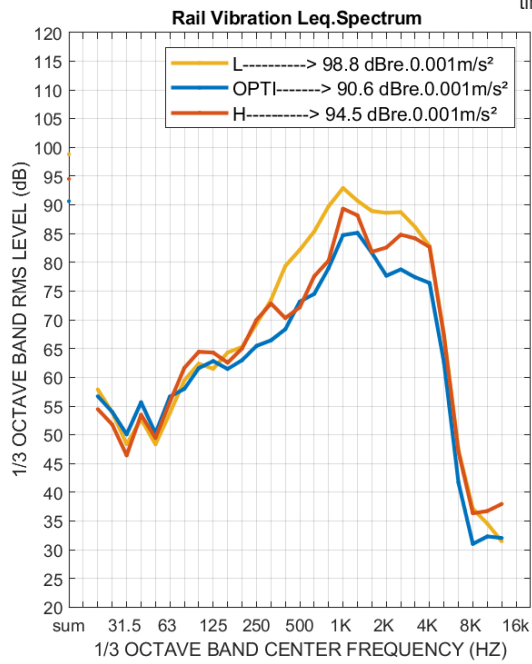
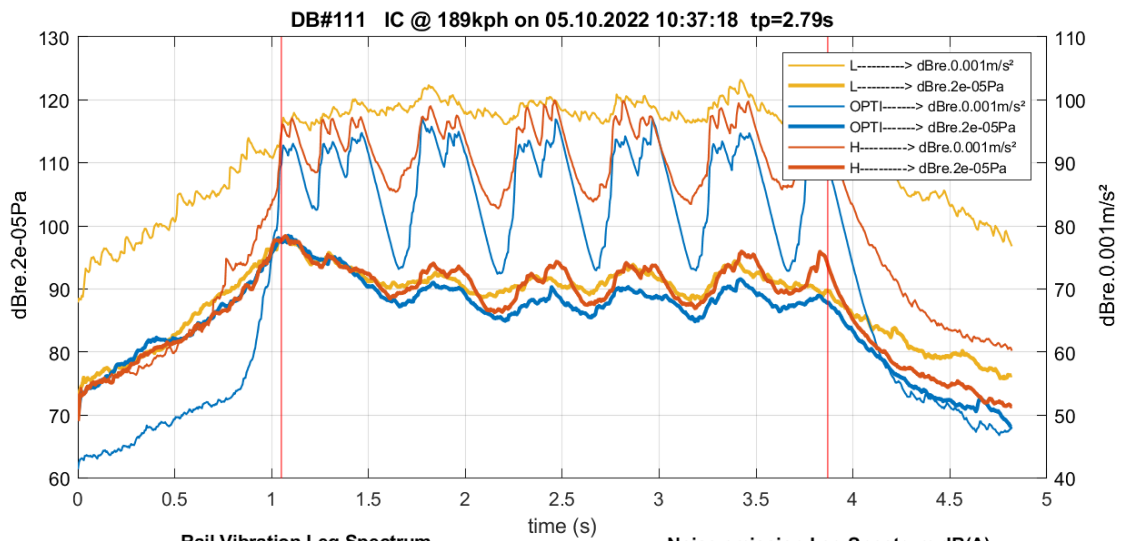


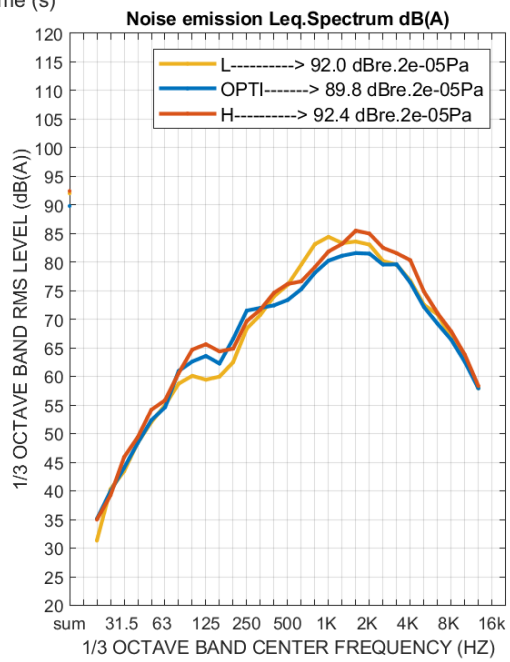
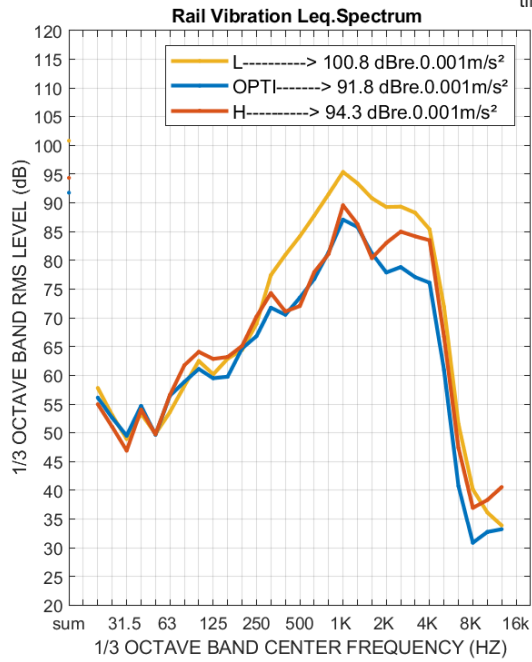
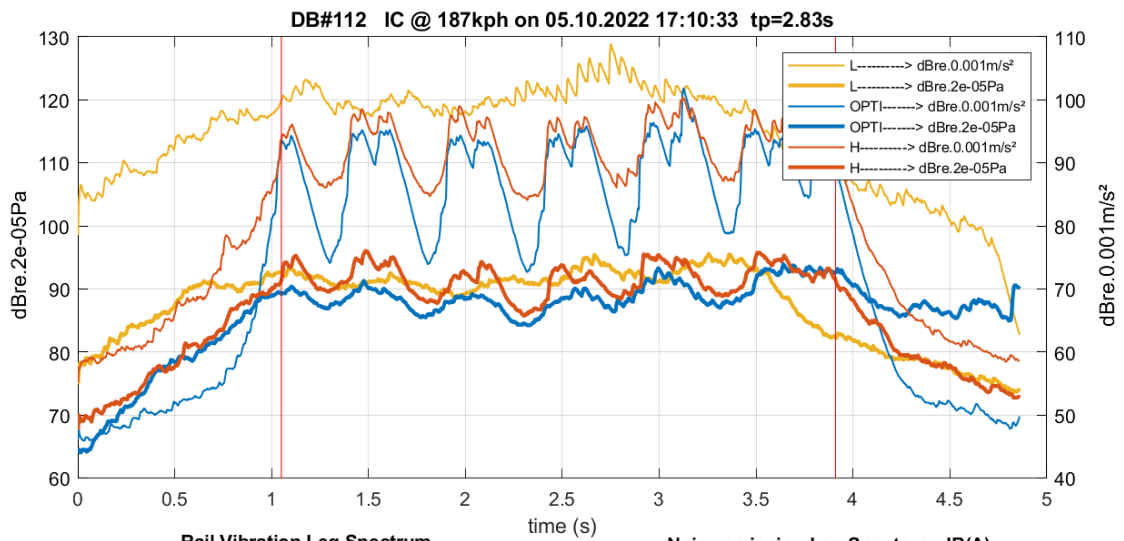


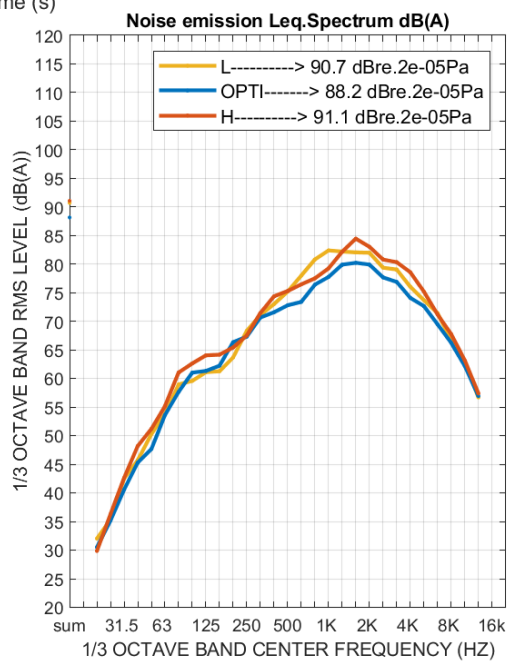
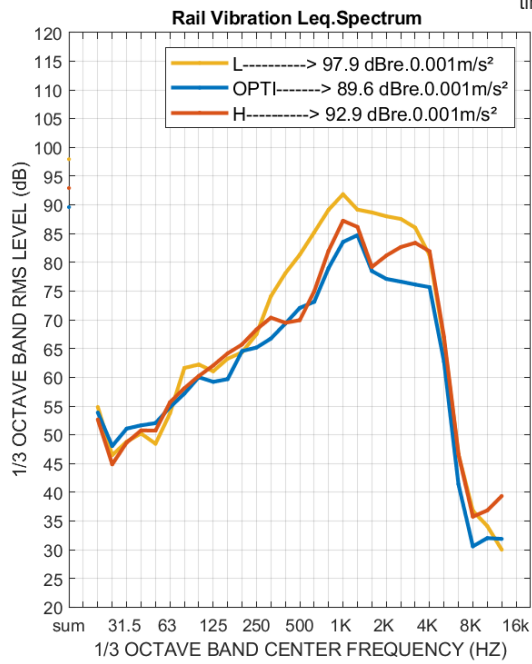
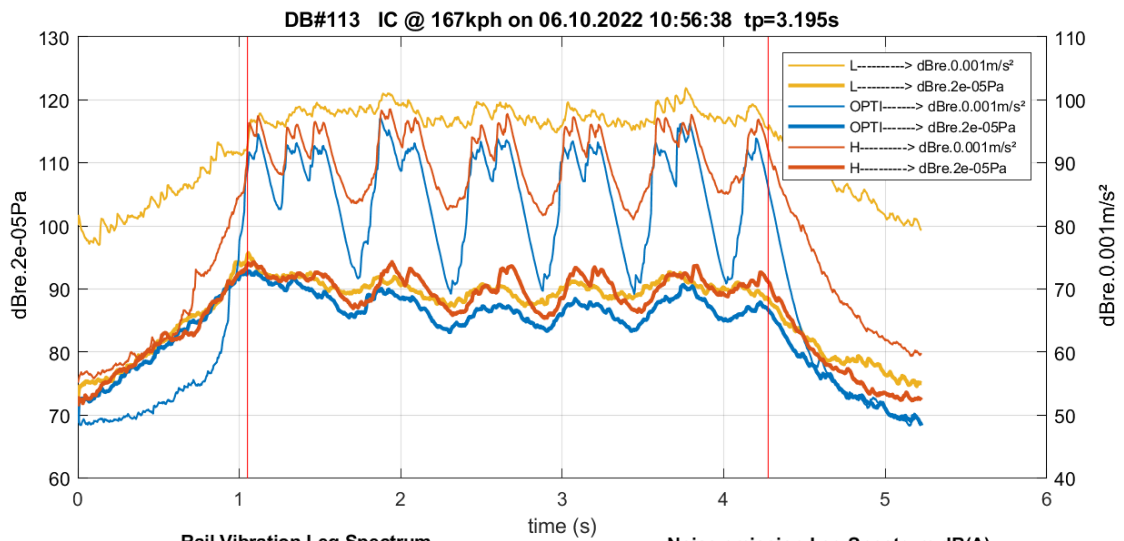












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