

Vedlegg B

Testresultater diagrammer

I dette vedlegget fremlegges alle diagrammer laget i Vedlegg A - testresultater. Diagrammene er av logaritmisk skala.

Som standard vil vi først vise et overordnet diagram av resultatene vi har for hvert scenario. Deretter fremlegger vi 60 Hz intervaller fra 1-720 Hz og et 90 Hz intervall på 840-930 Hz. Grunnen til vi har laget frekvensområdet i akkurat disse områdene er fordi det er her vi får utslag som er større enn 10 μPa ved de forskjellige scenarioene.

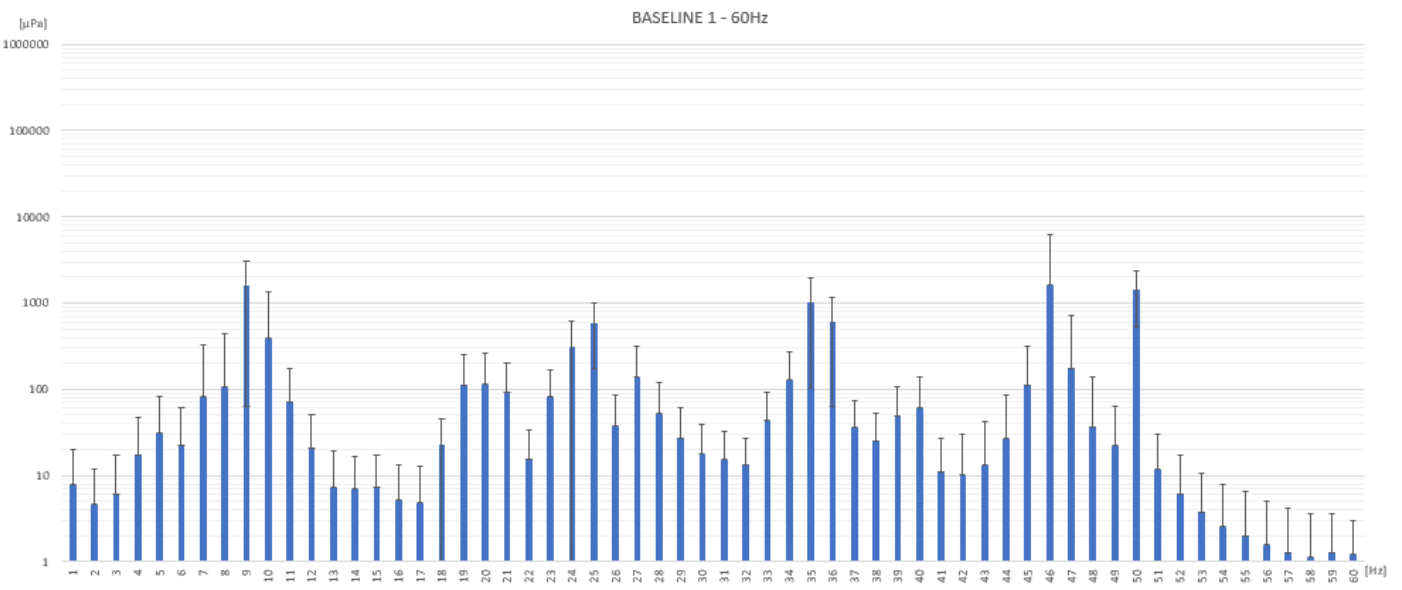
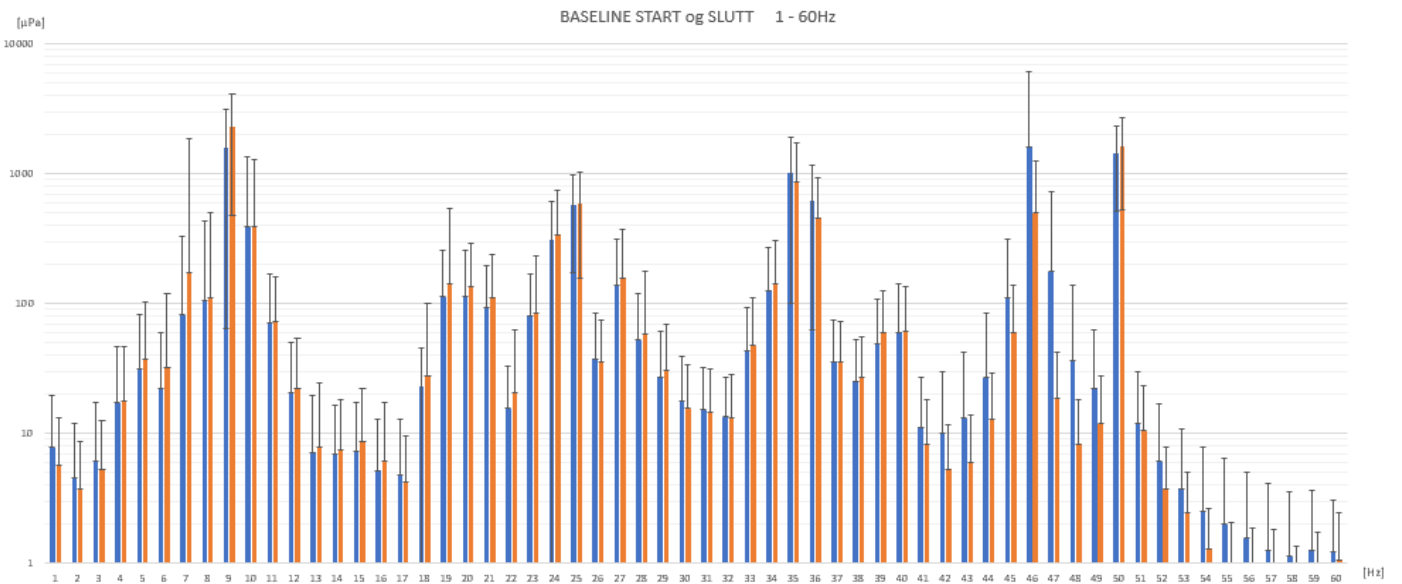
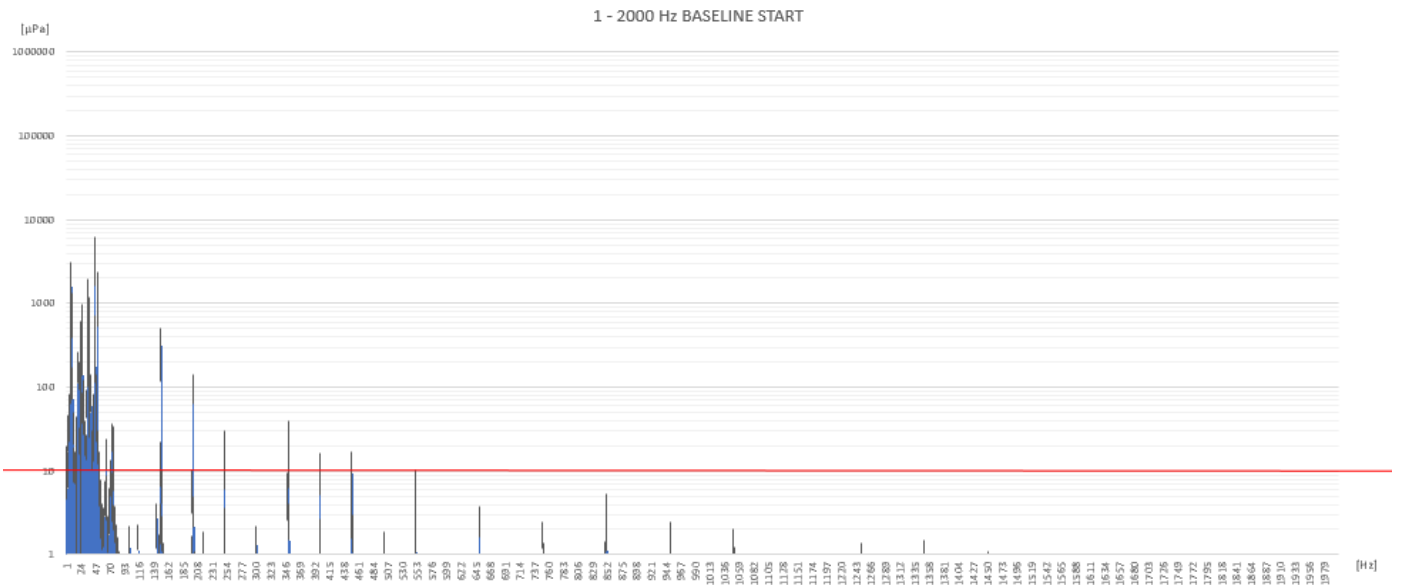
Alle kommentarer knyttet til diagrammene vil være i hoveddokumentet. Her kommenterer vi bare de utslagene som skiller seg ut blant alle småtoppene. Dermed må dette dokumentet ses i sammenheng med hoveddokumentet for diverse kommentarer og påpekninger.

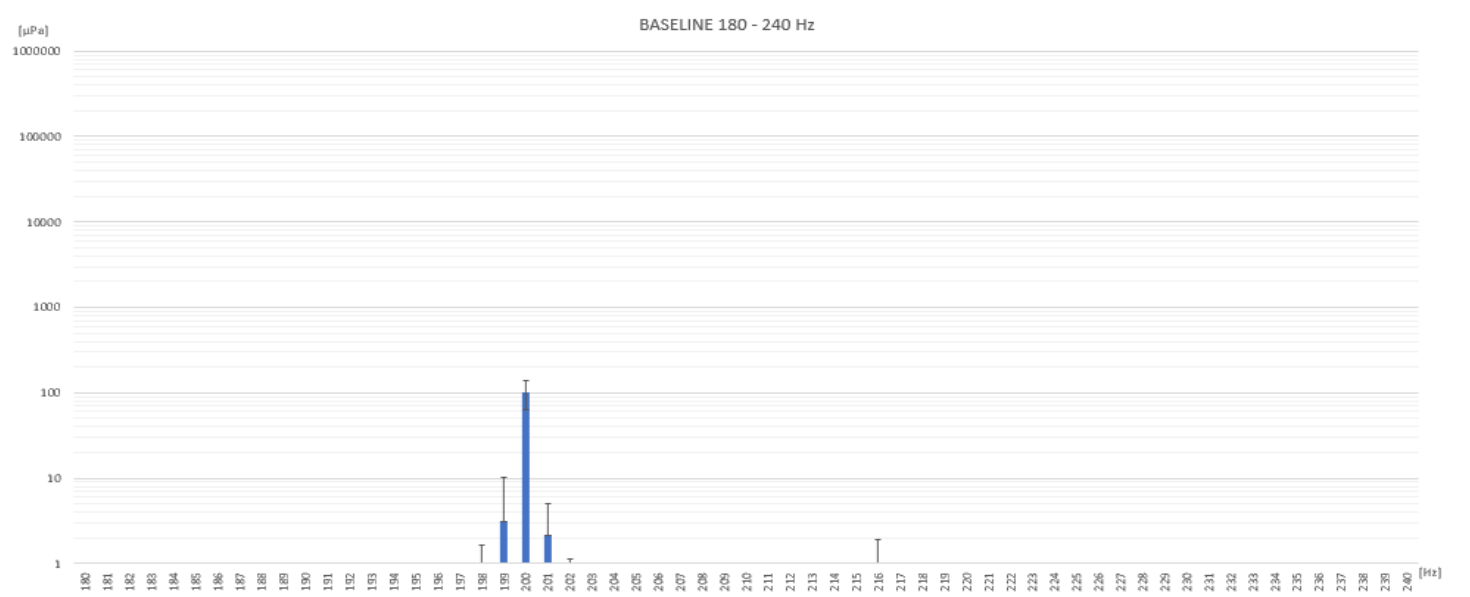
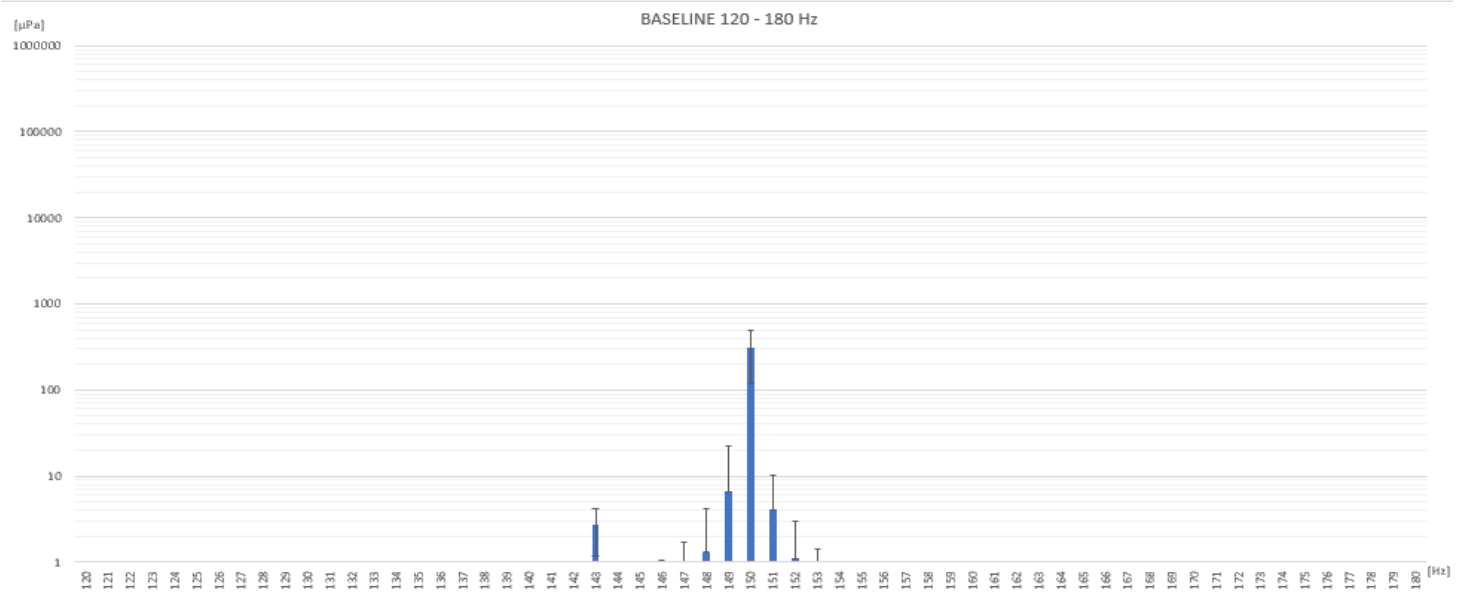
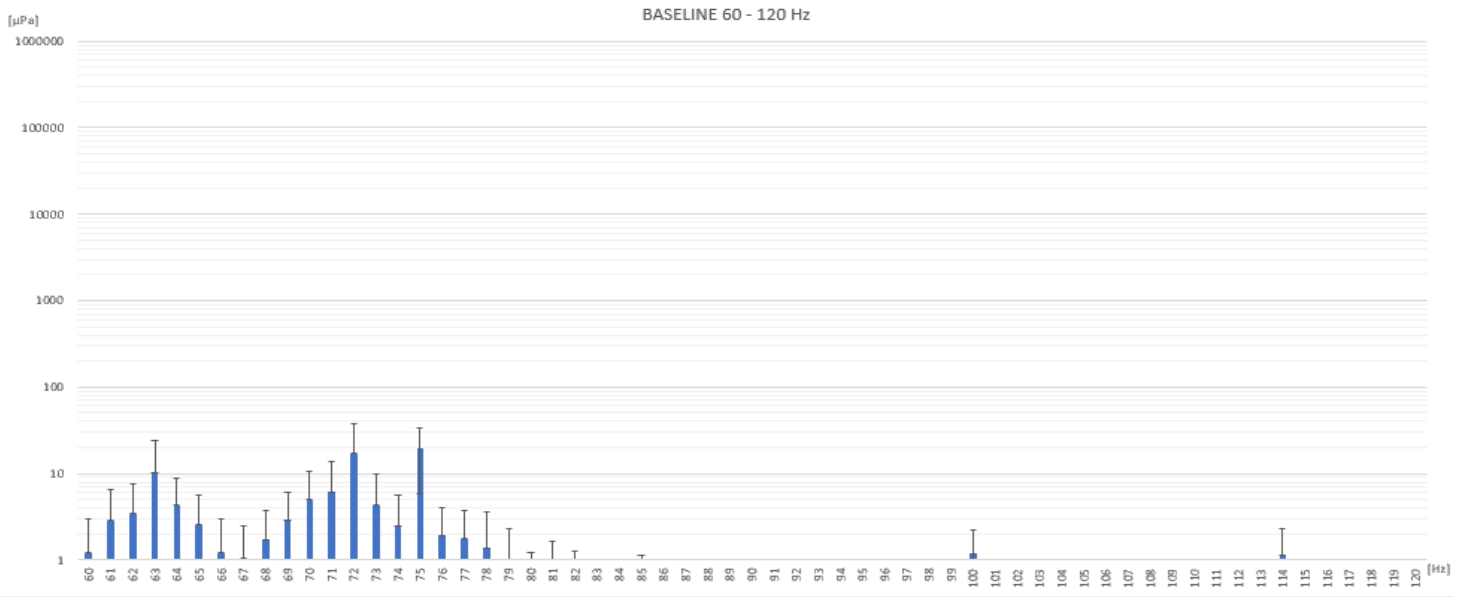
Innhold

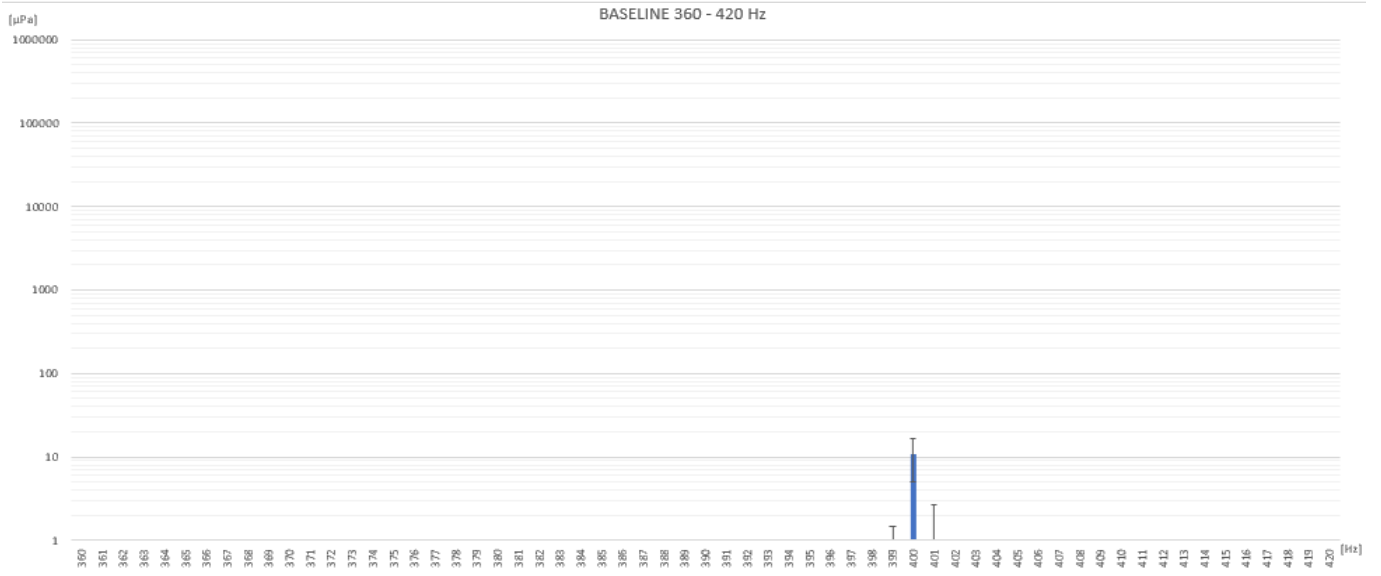
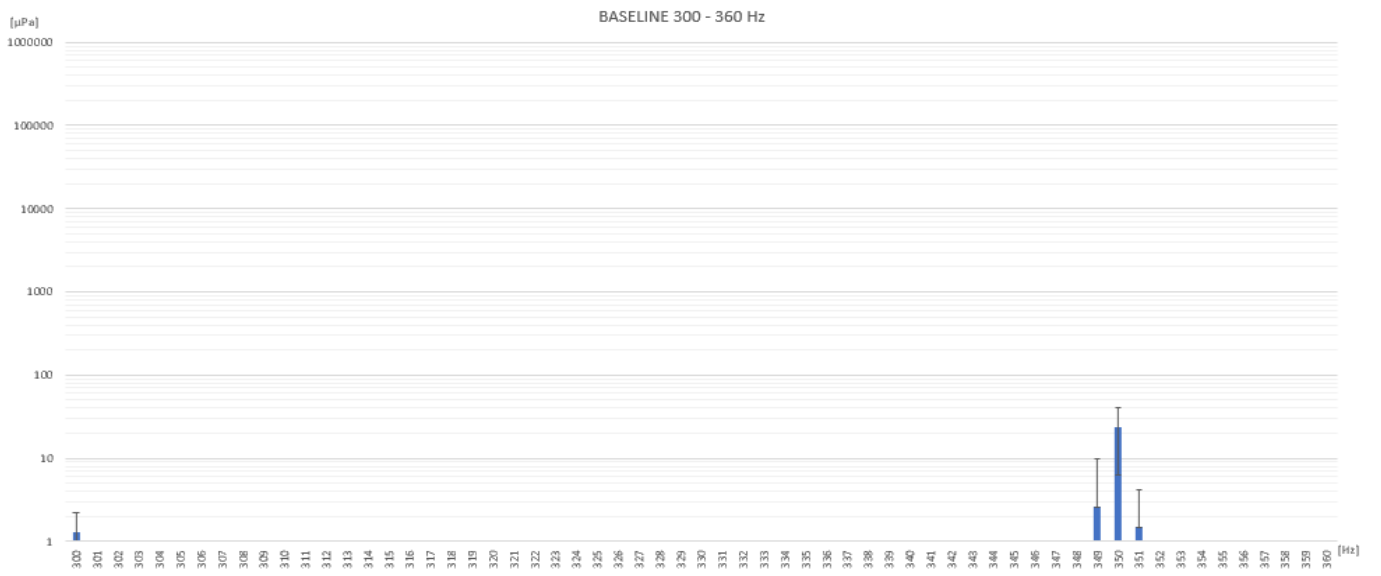
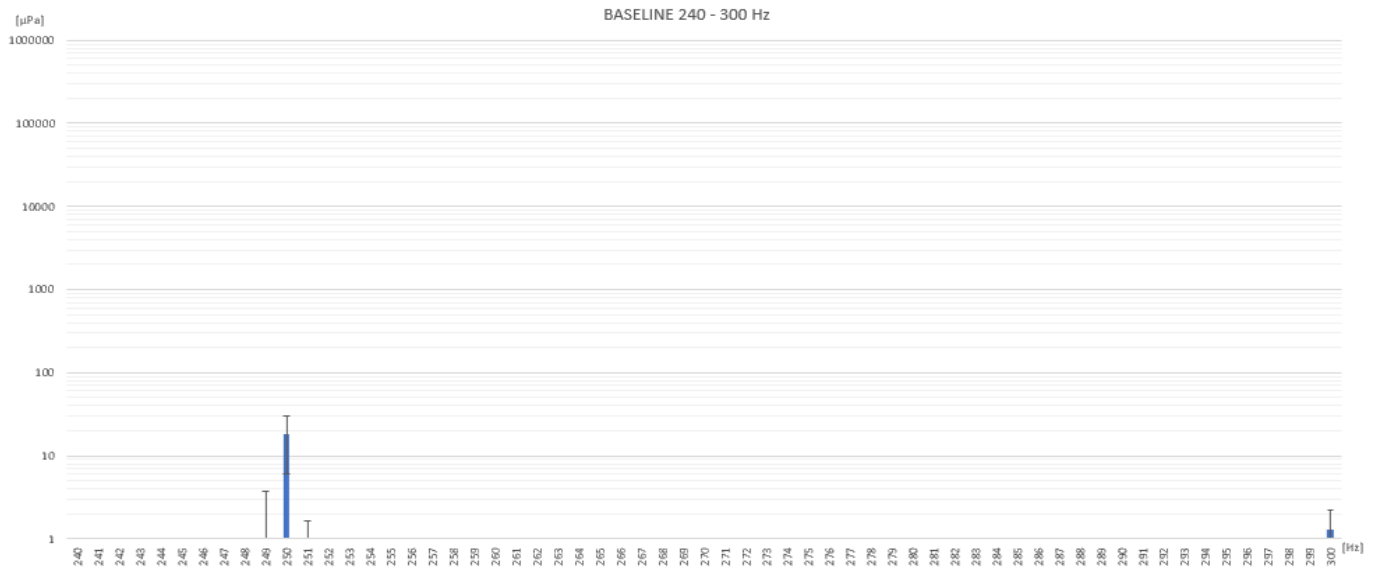
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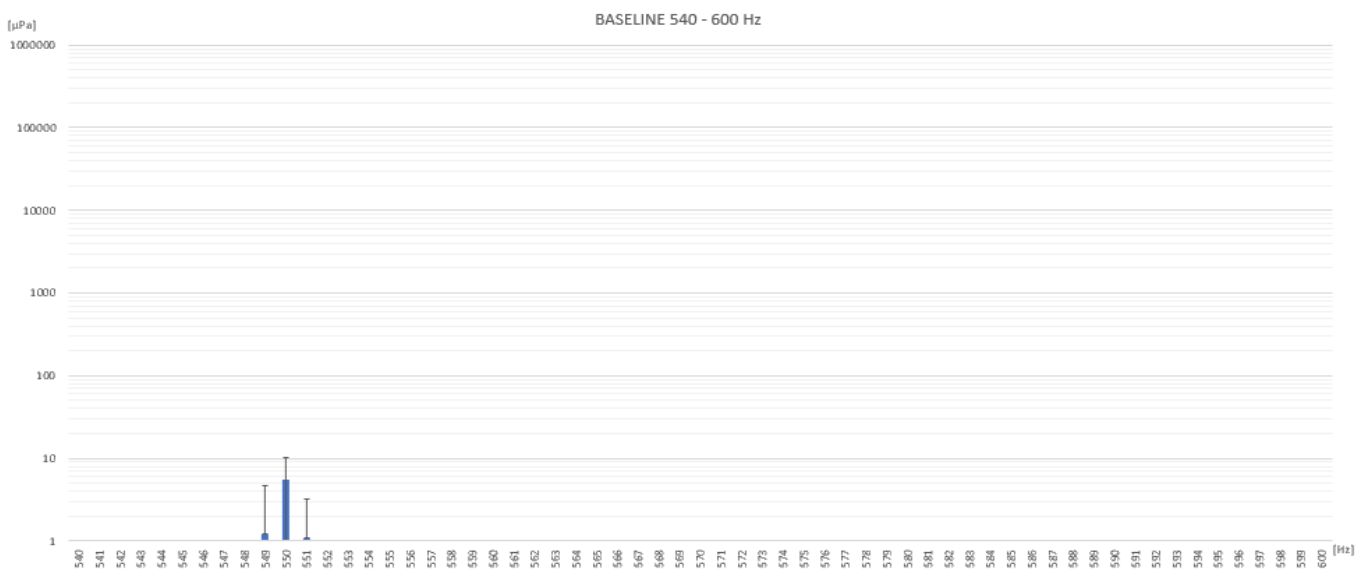
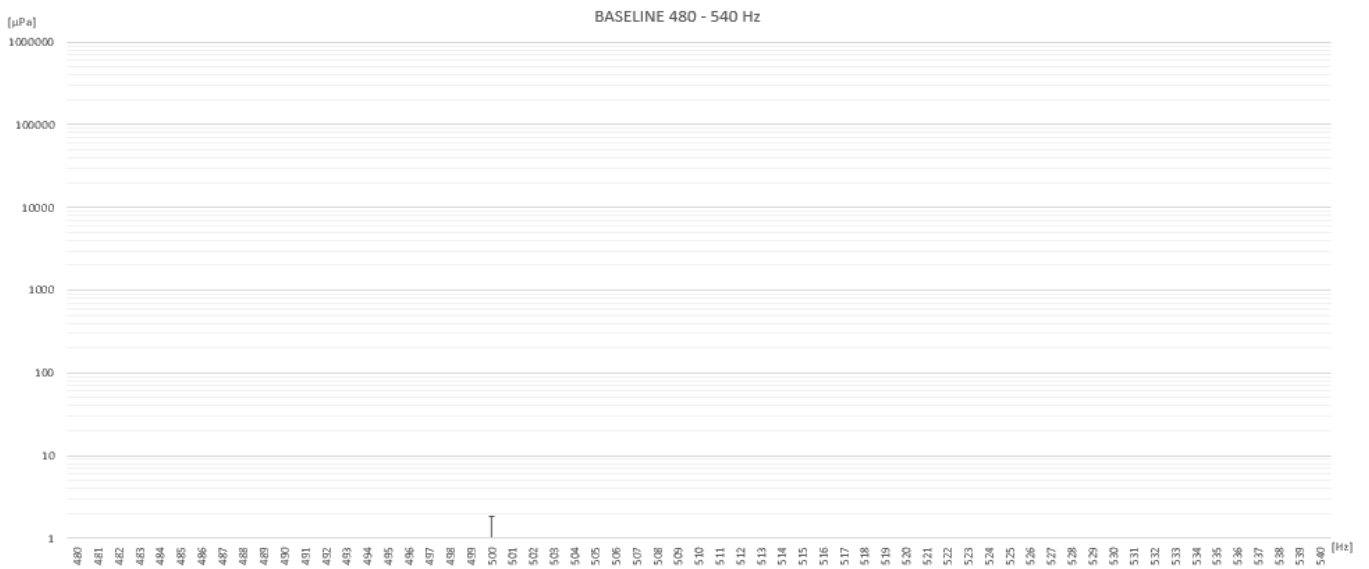
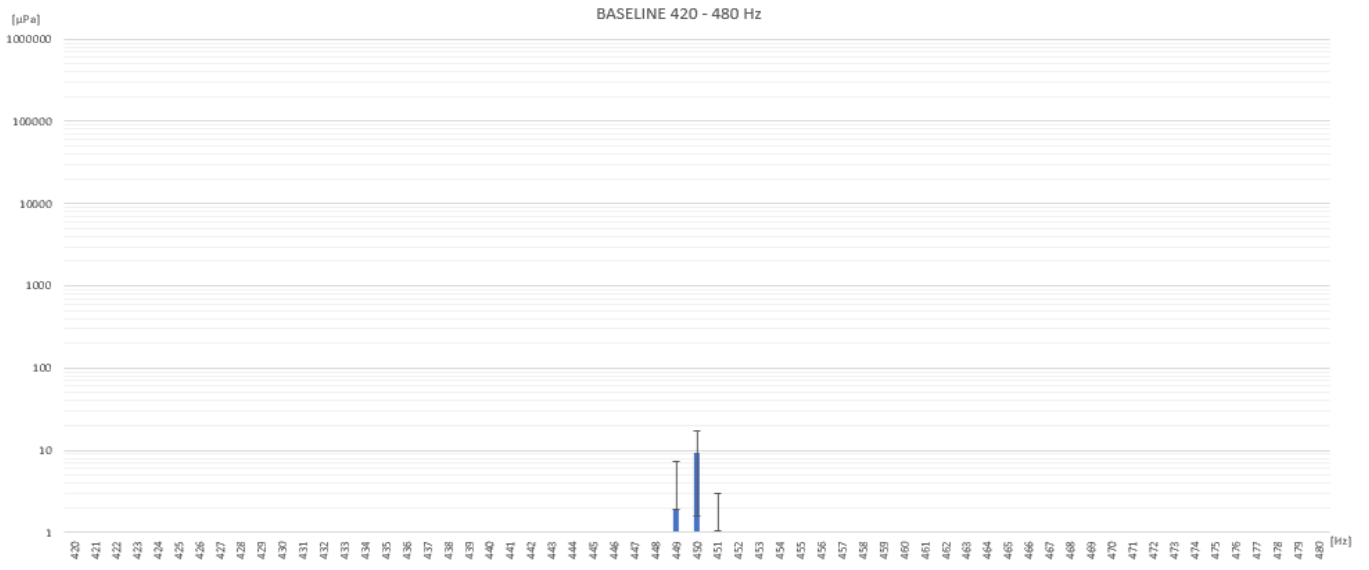
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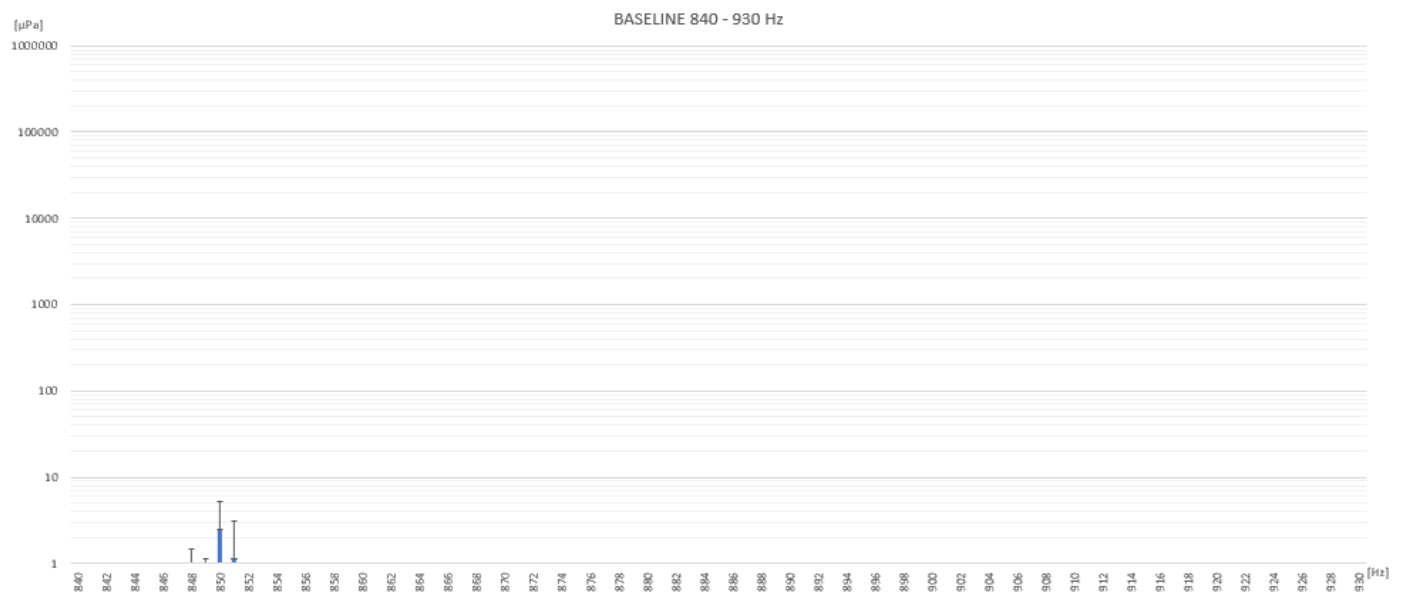
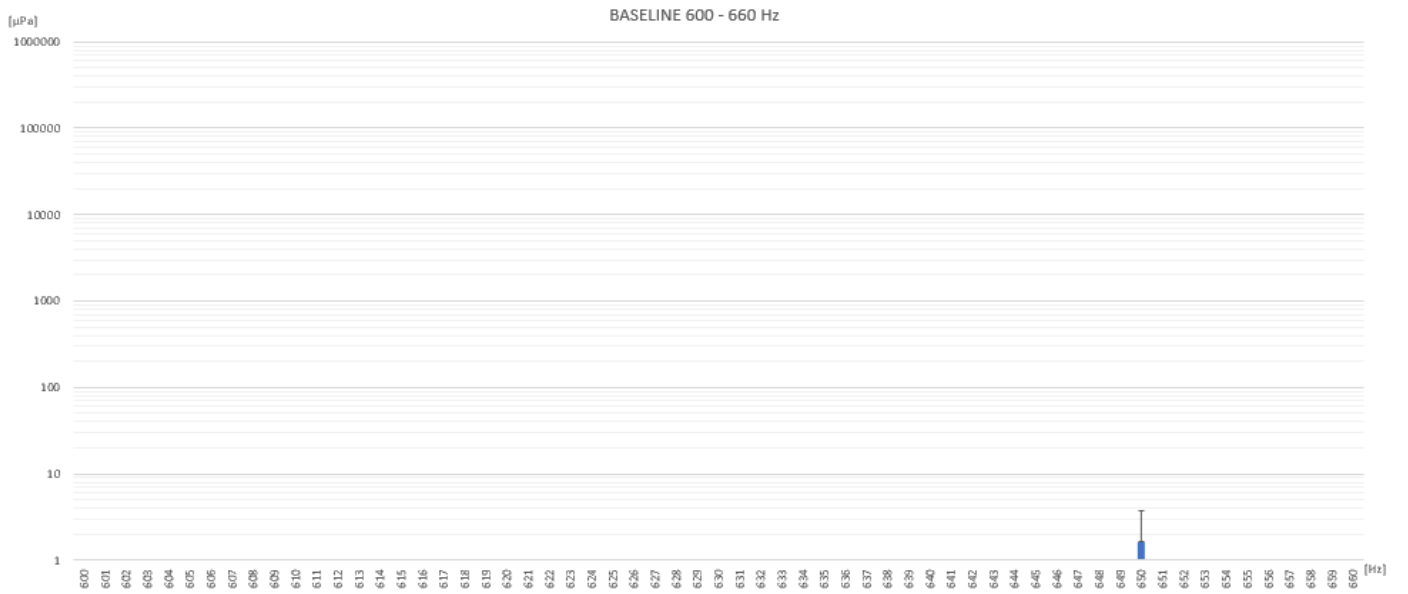
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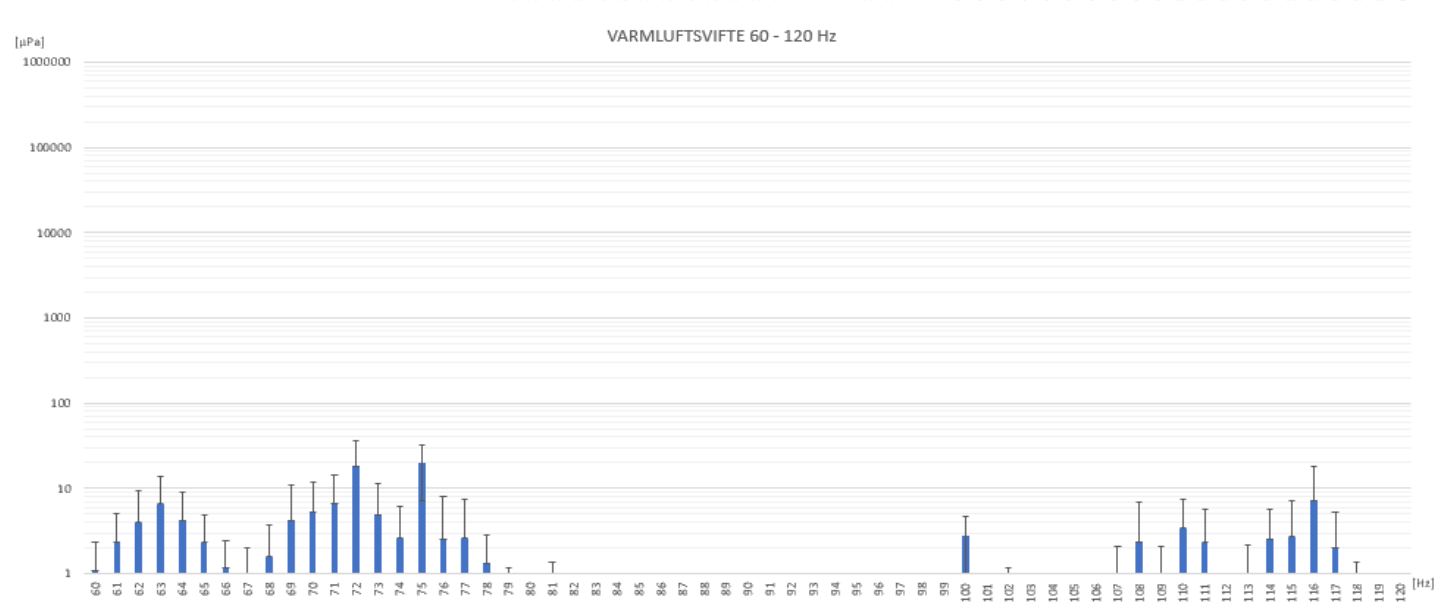
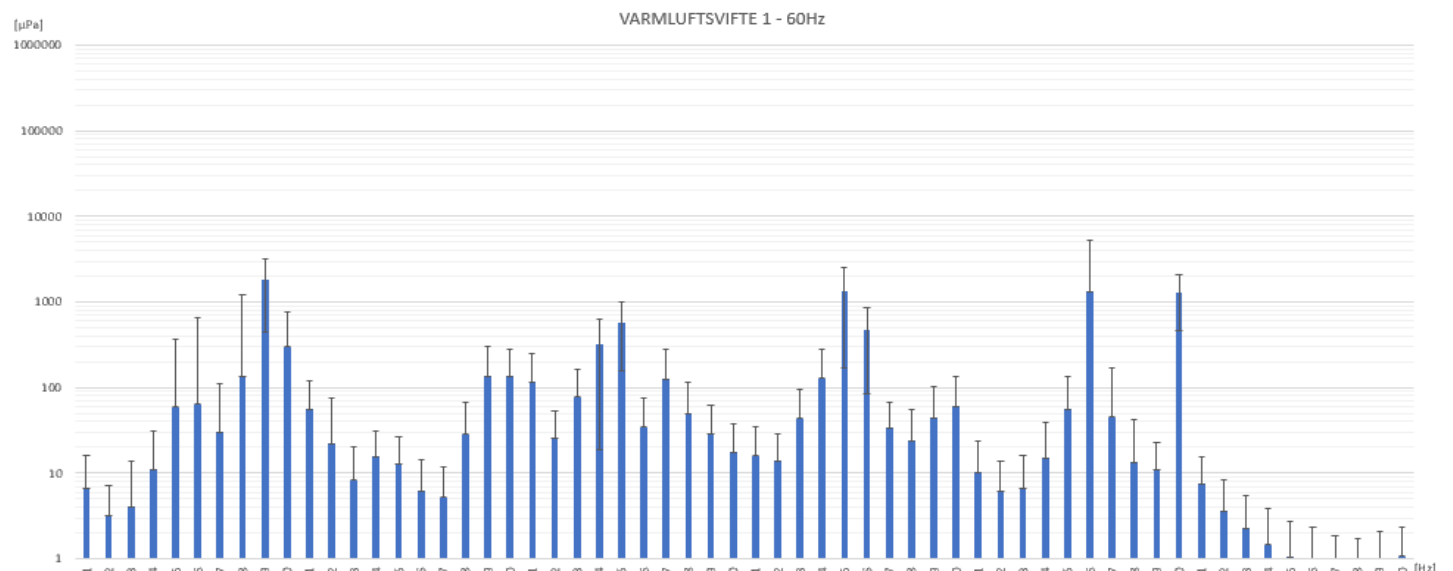
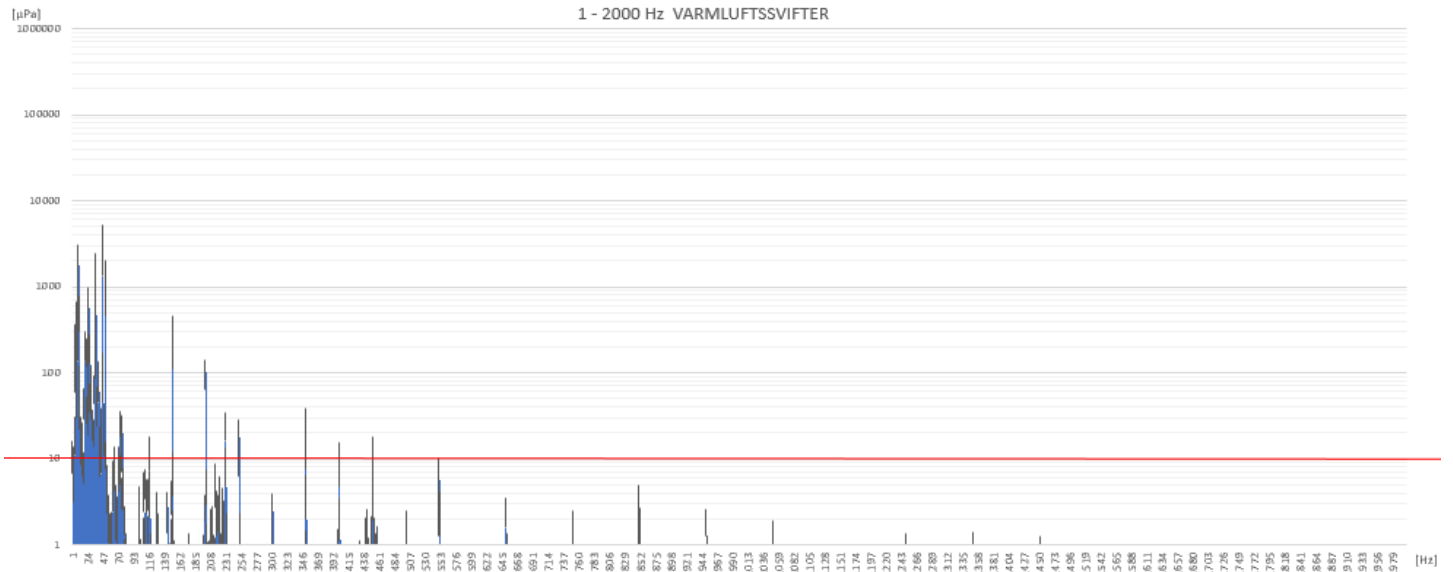


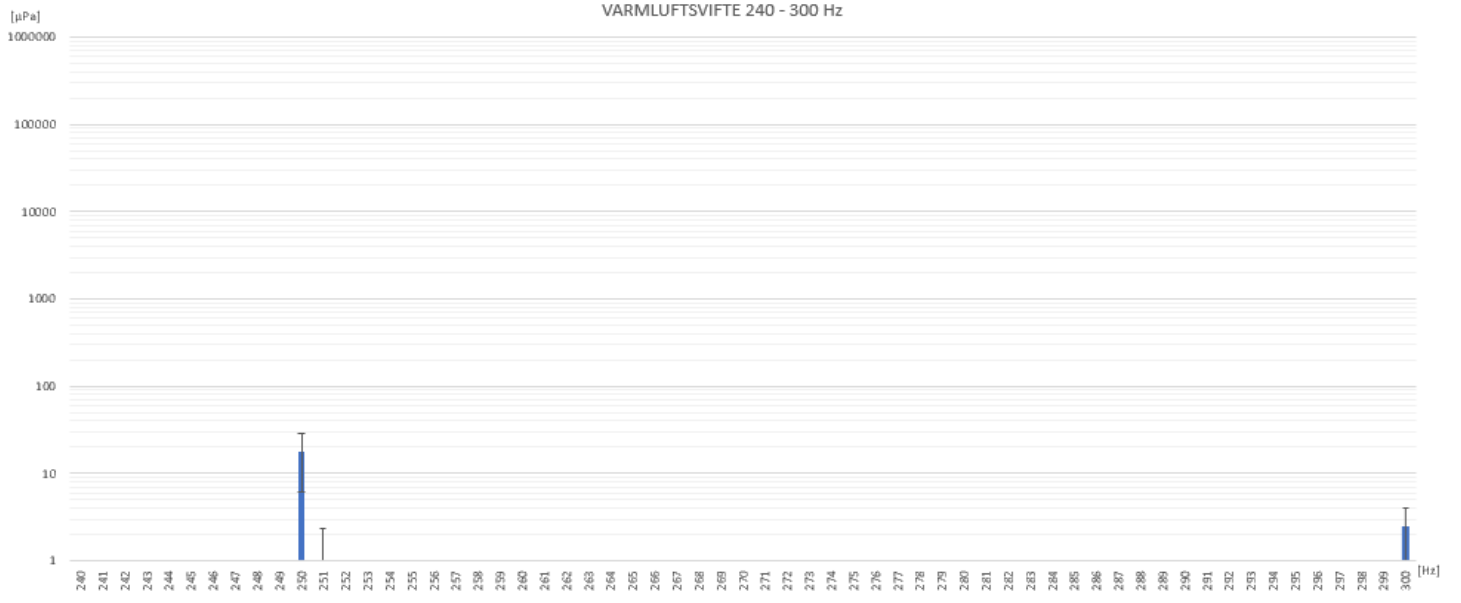
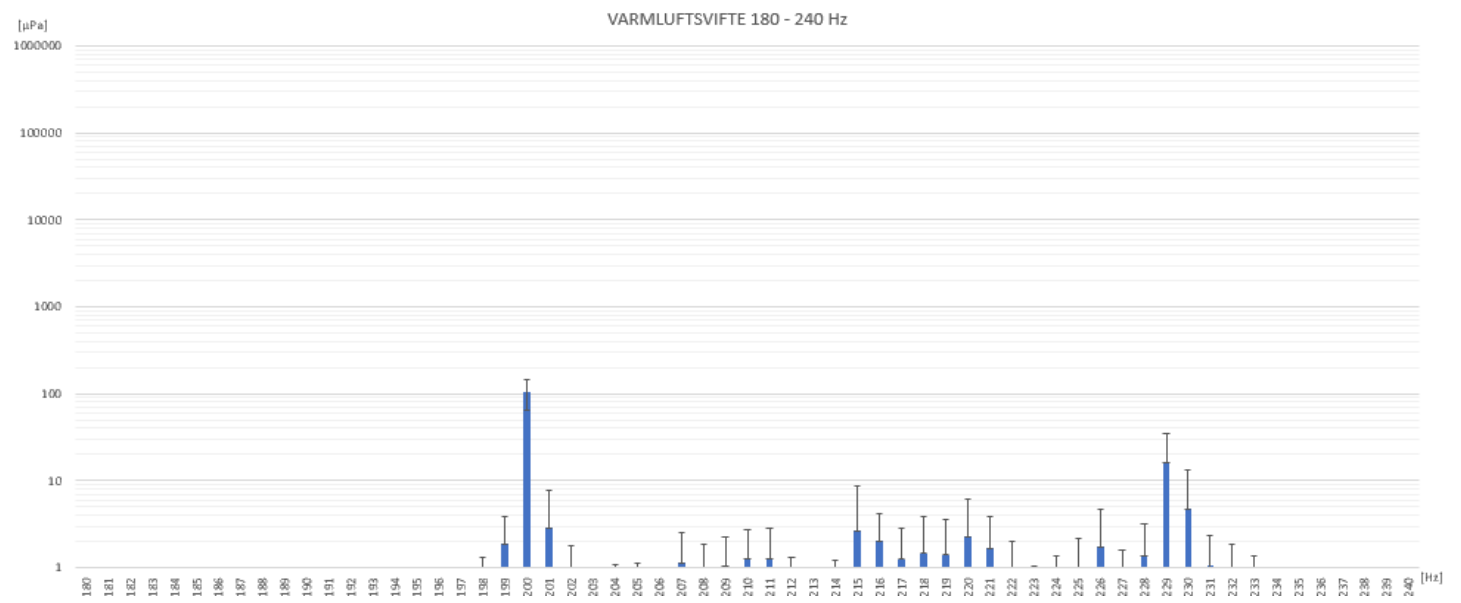
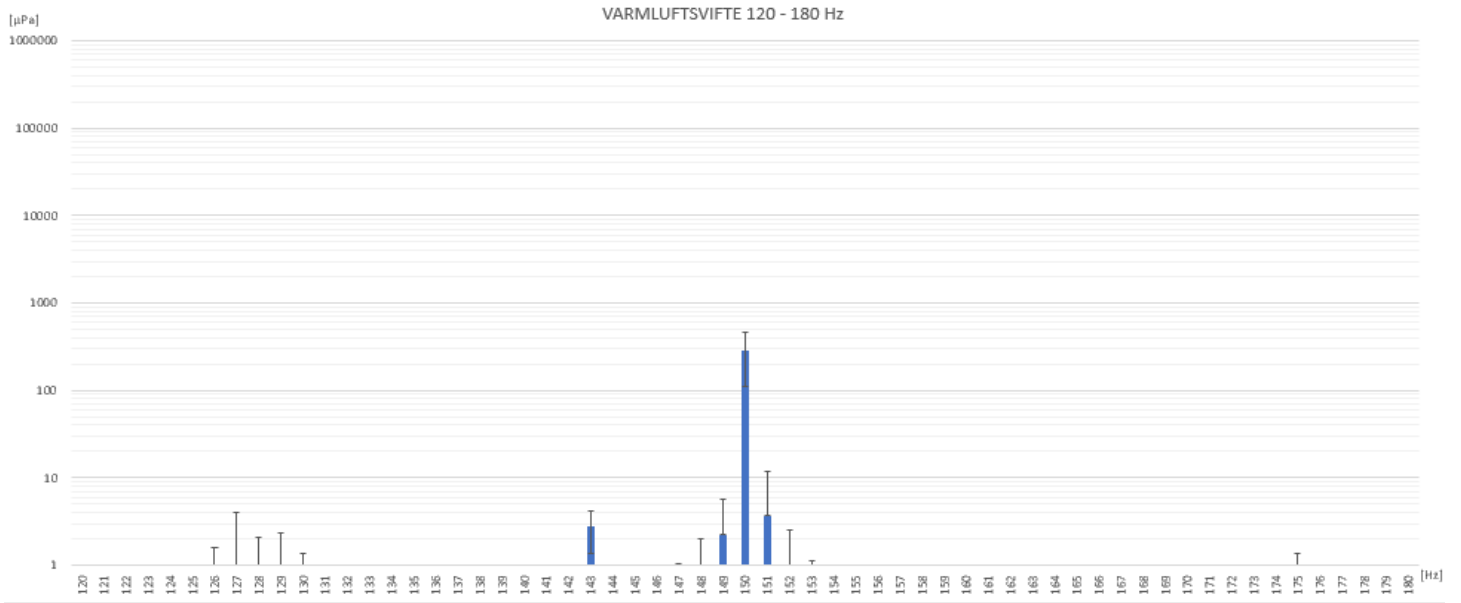


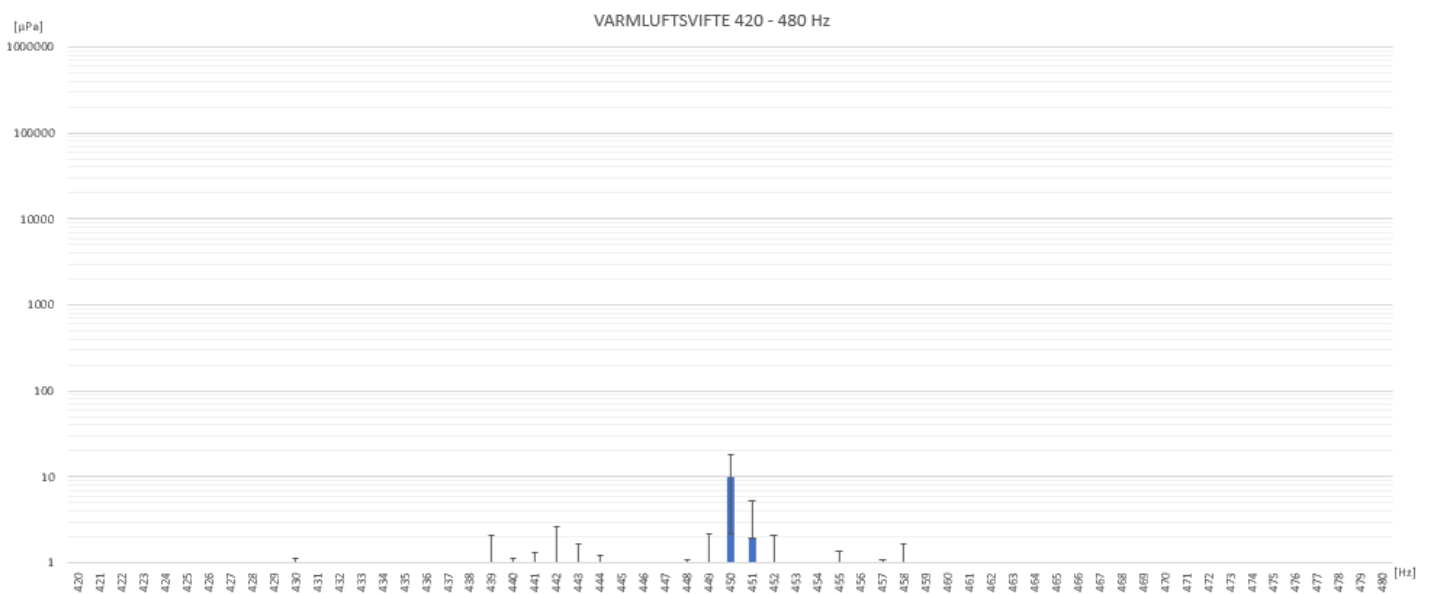
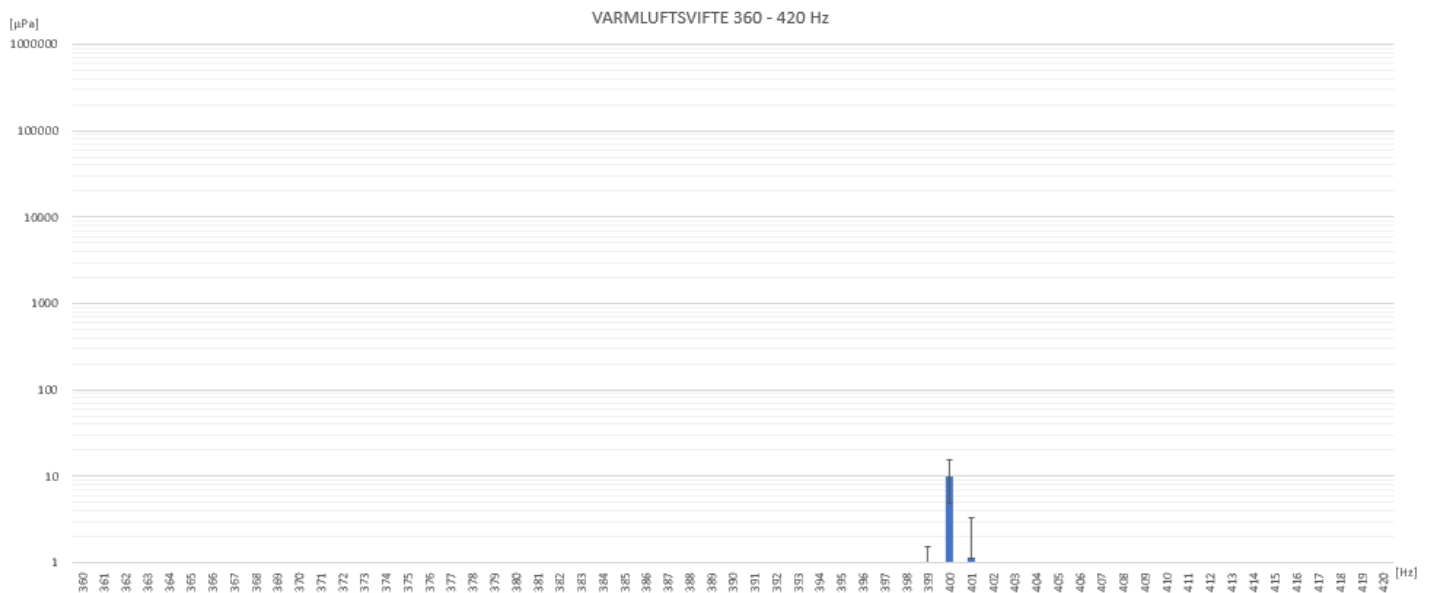
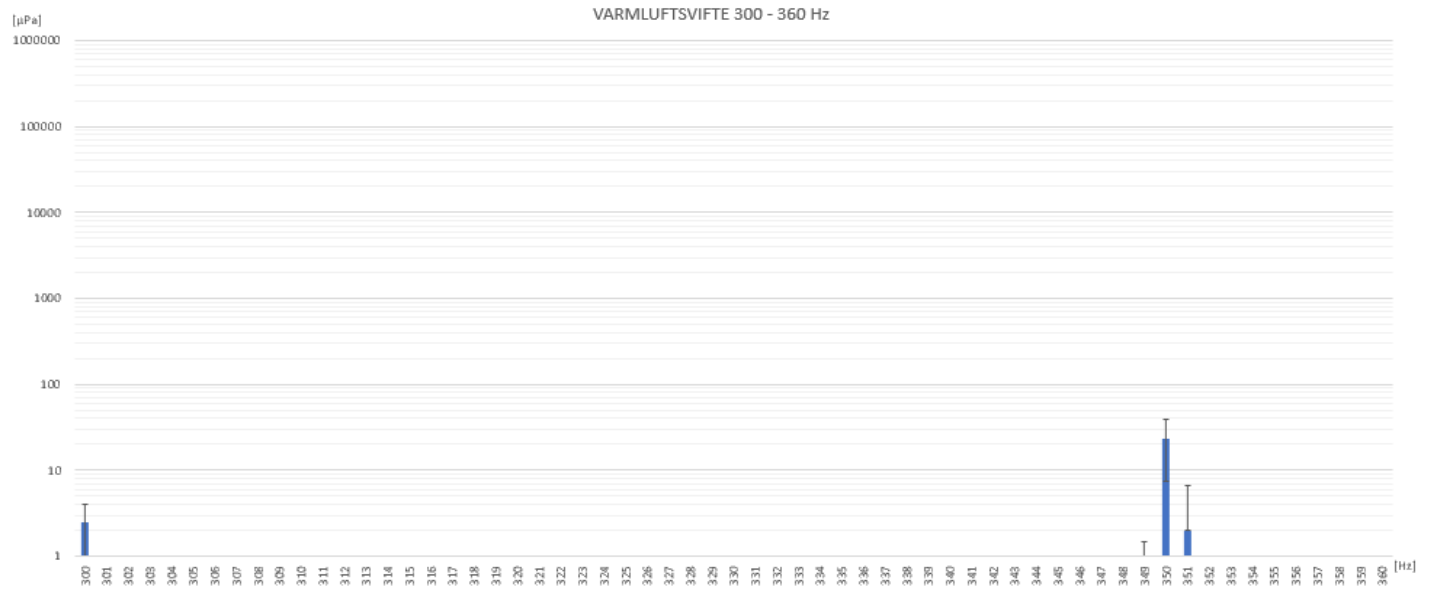


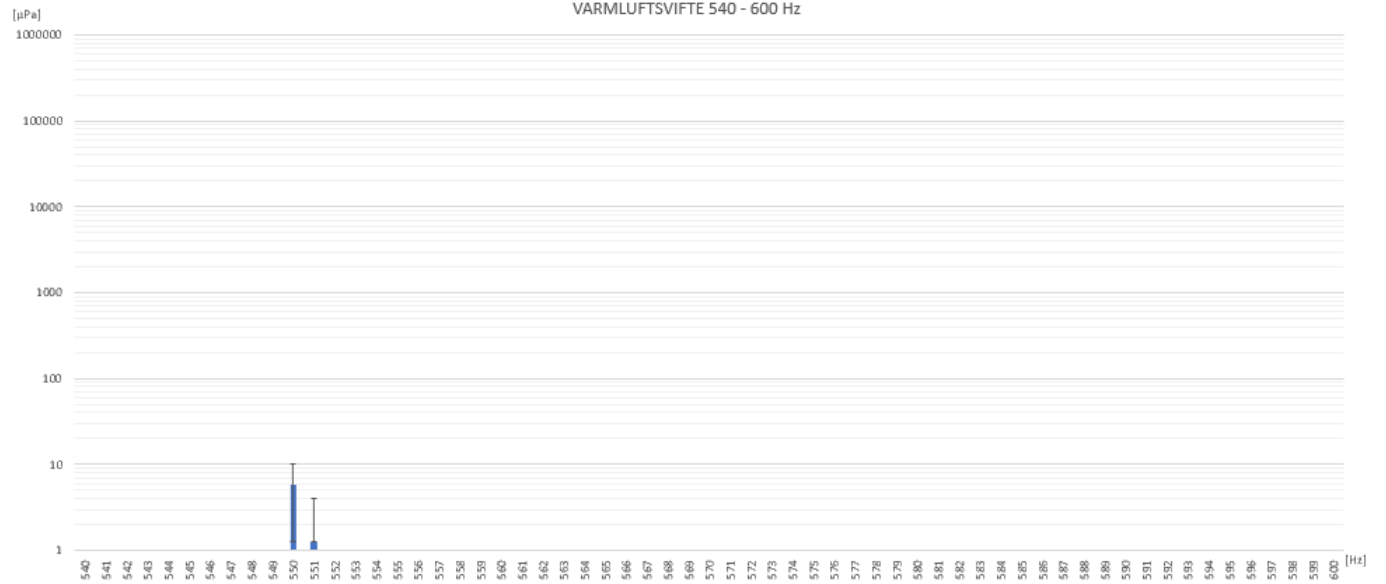
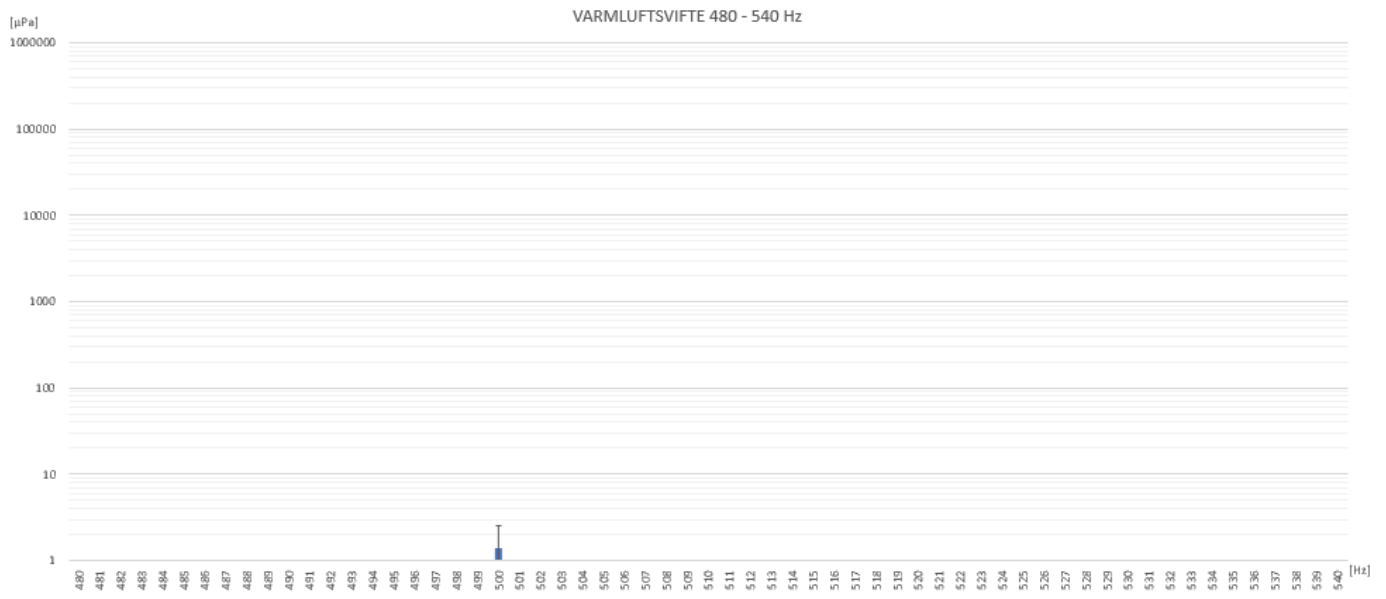


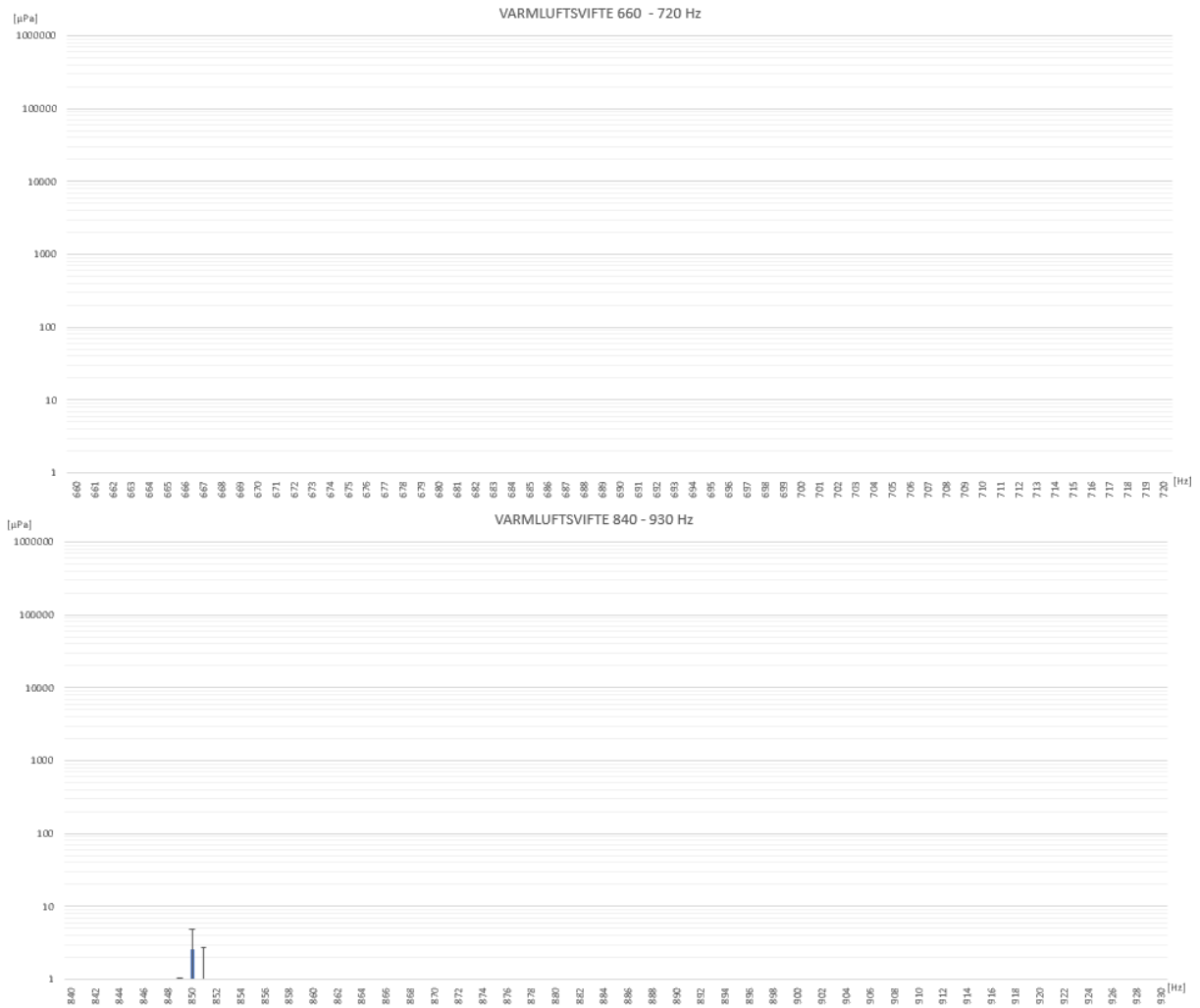
Scenario 2: Tabeller fra baseline med varmluftvifter



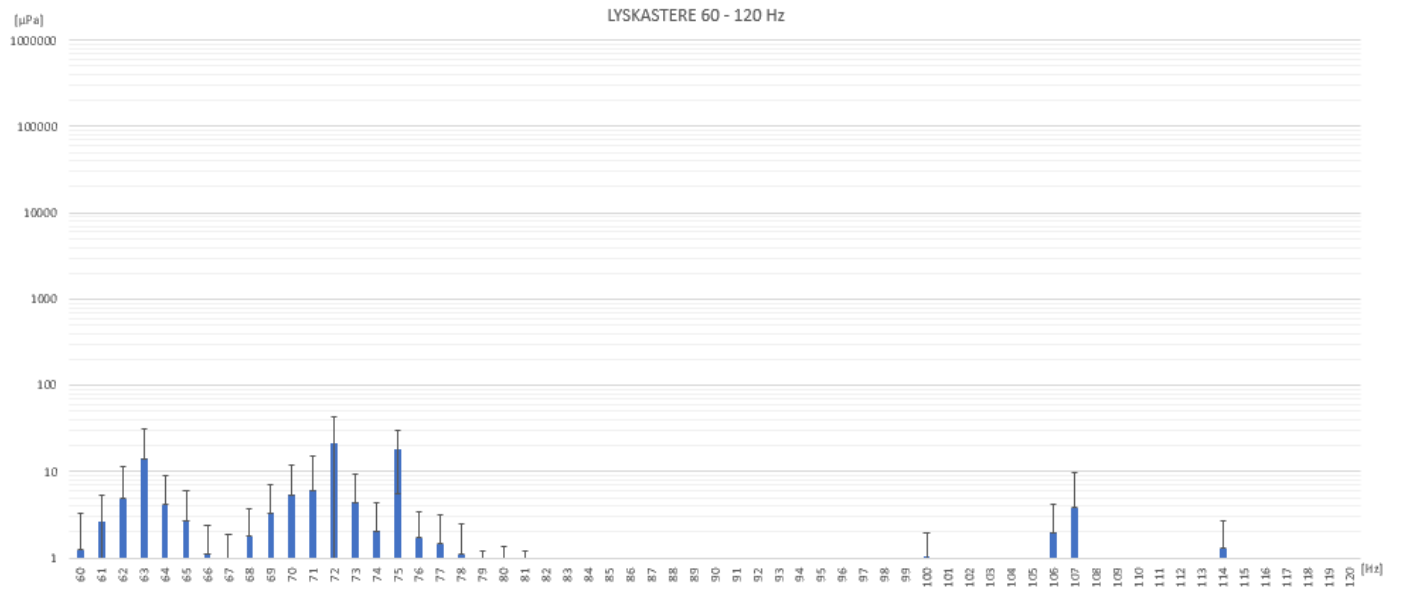
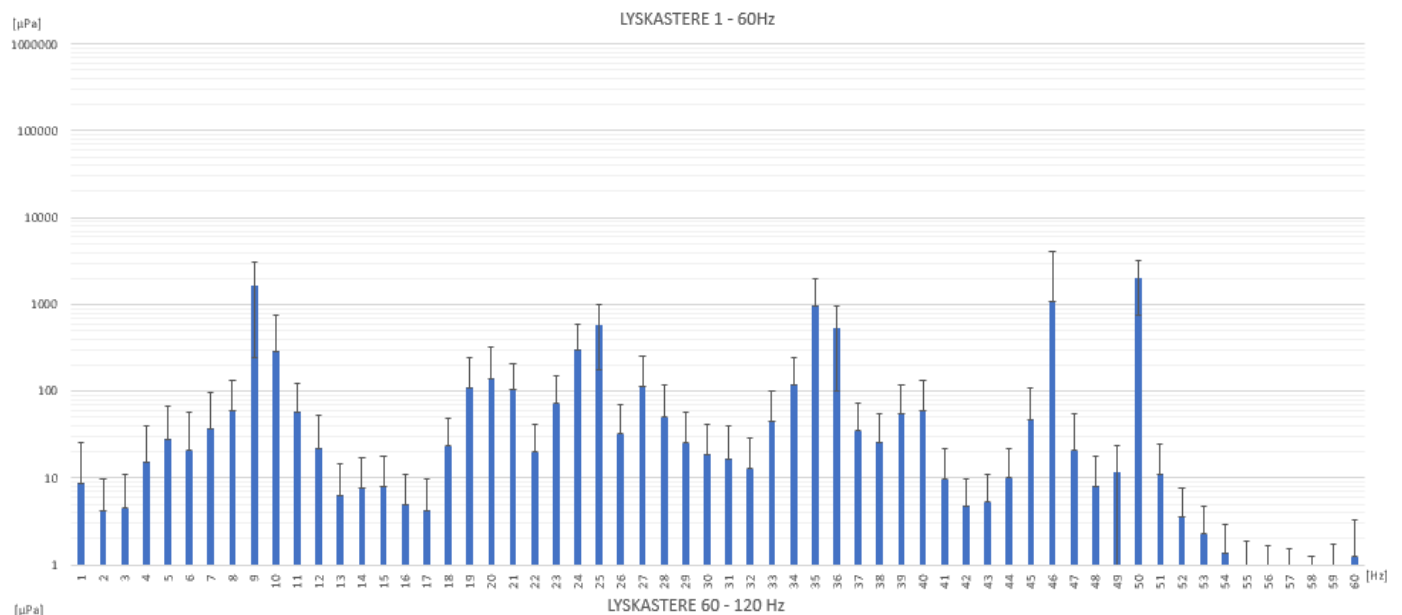
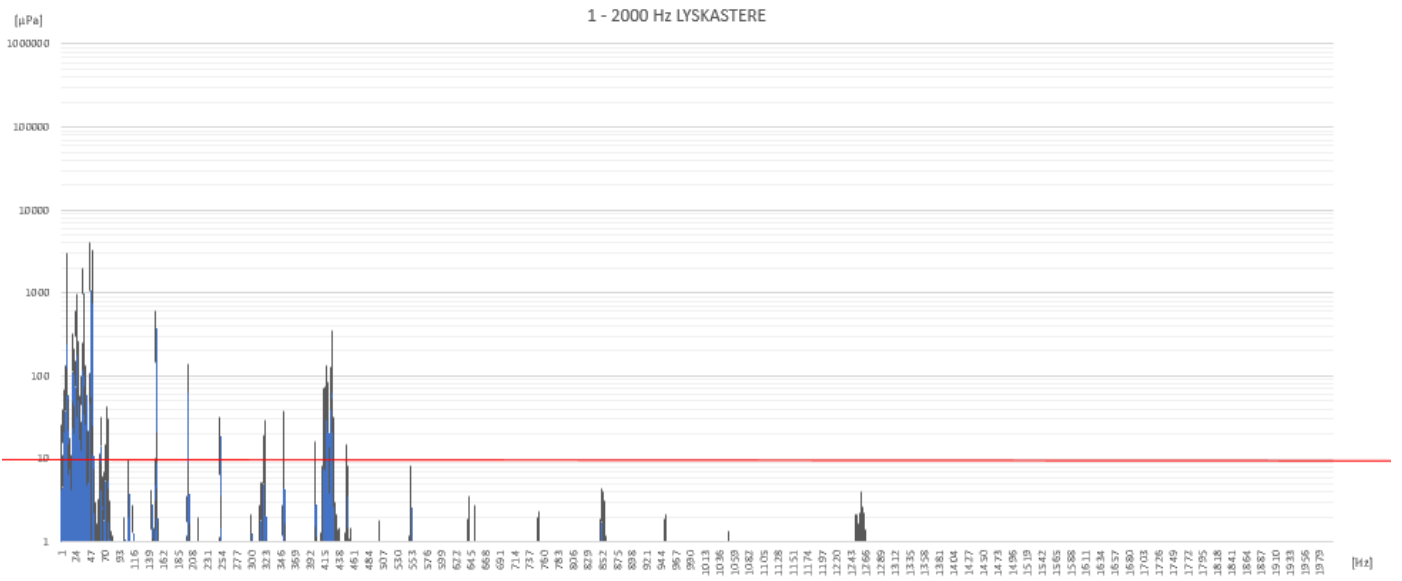


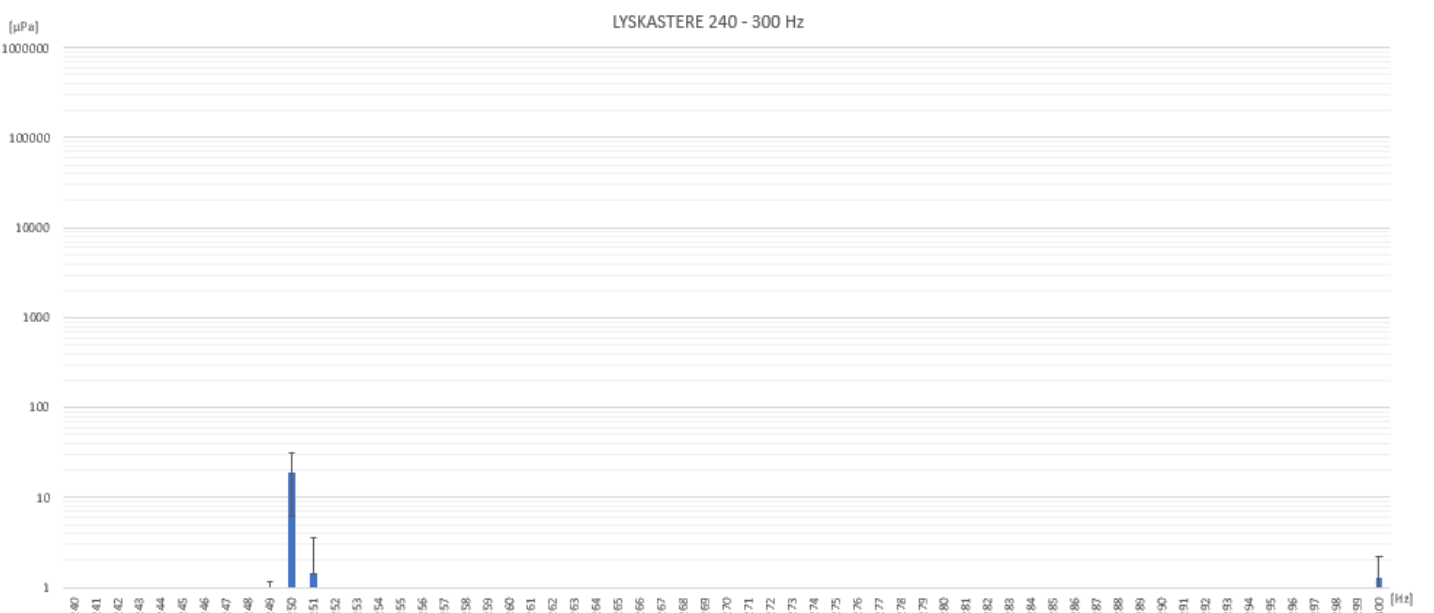
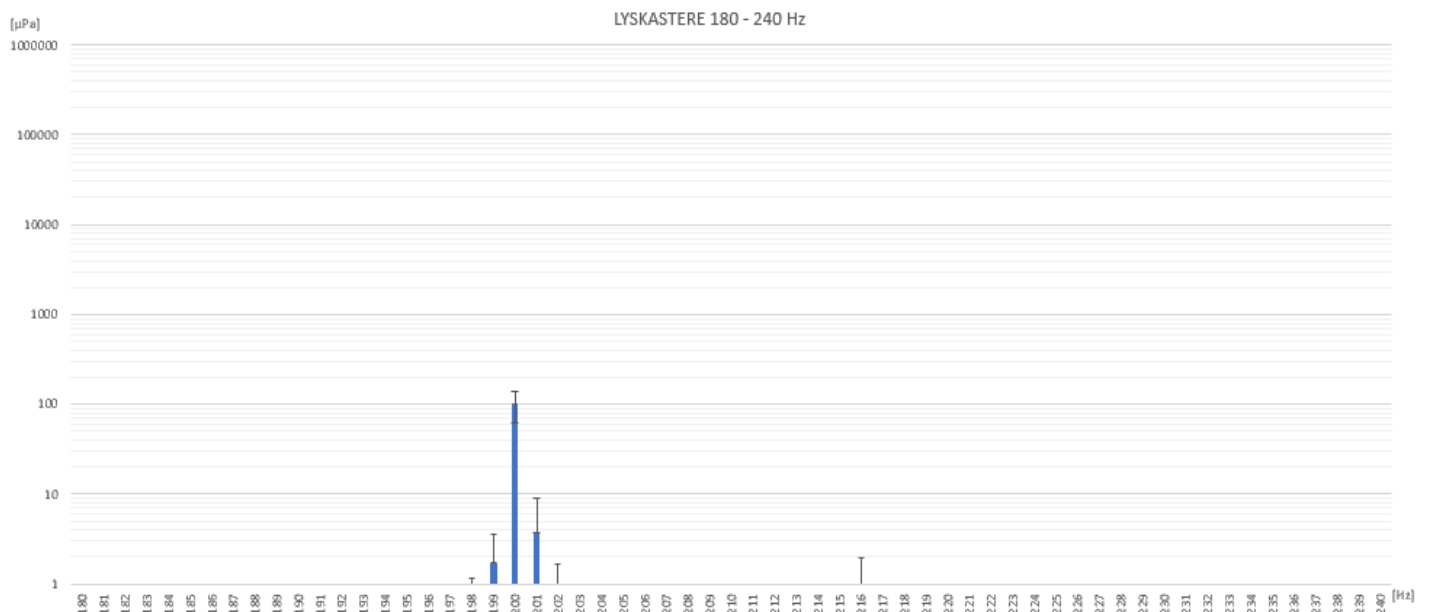
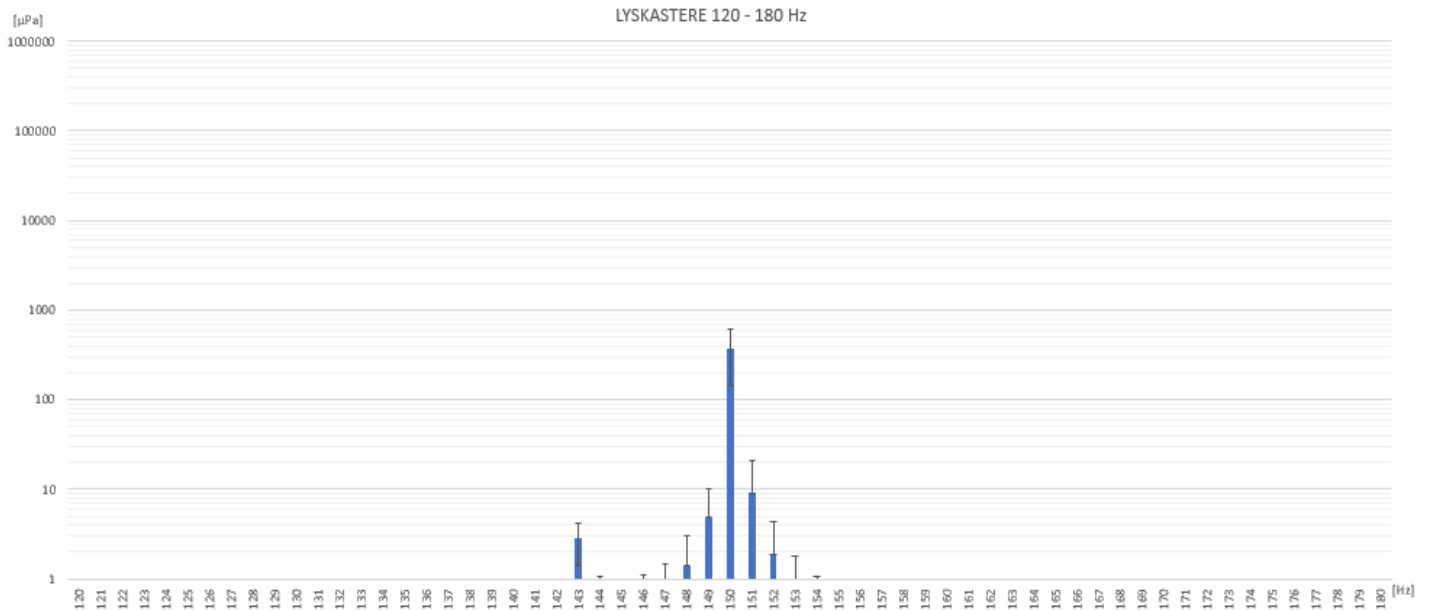


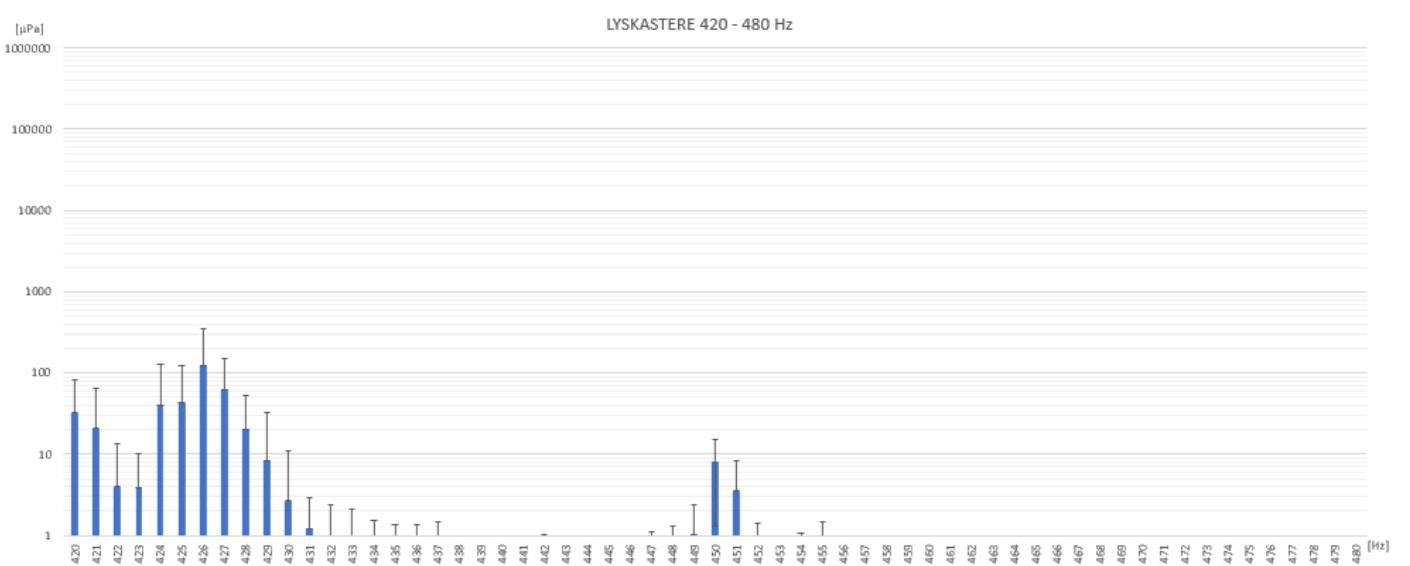
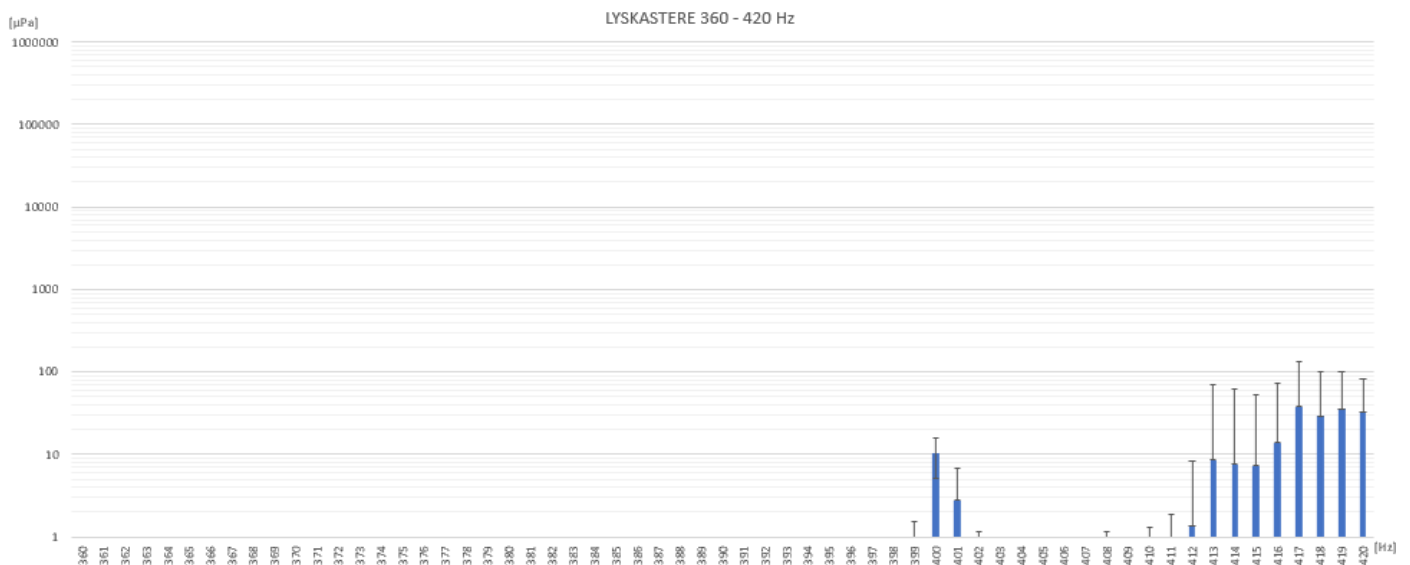
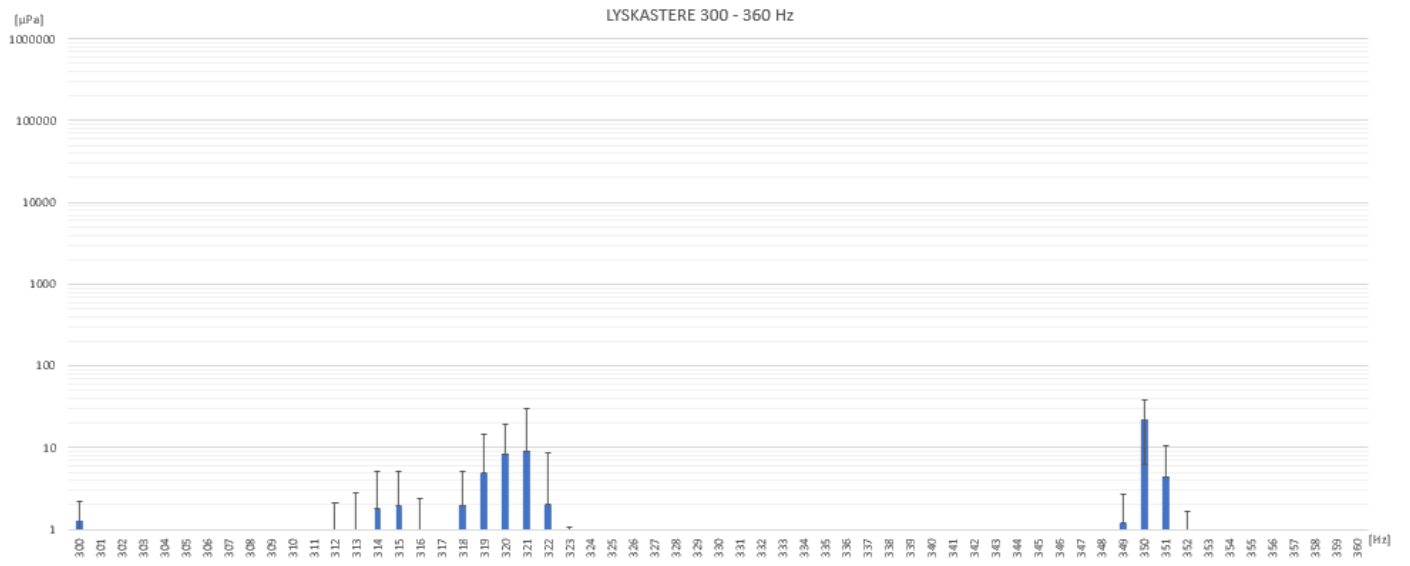




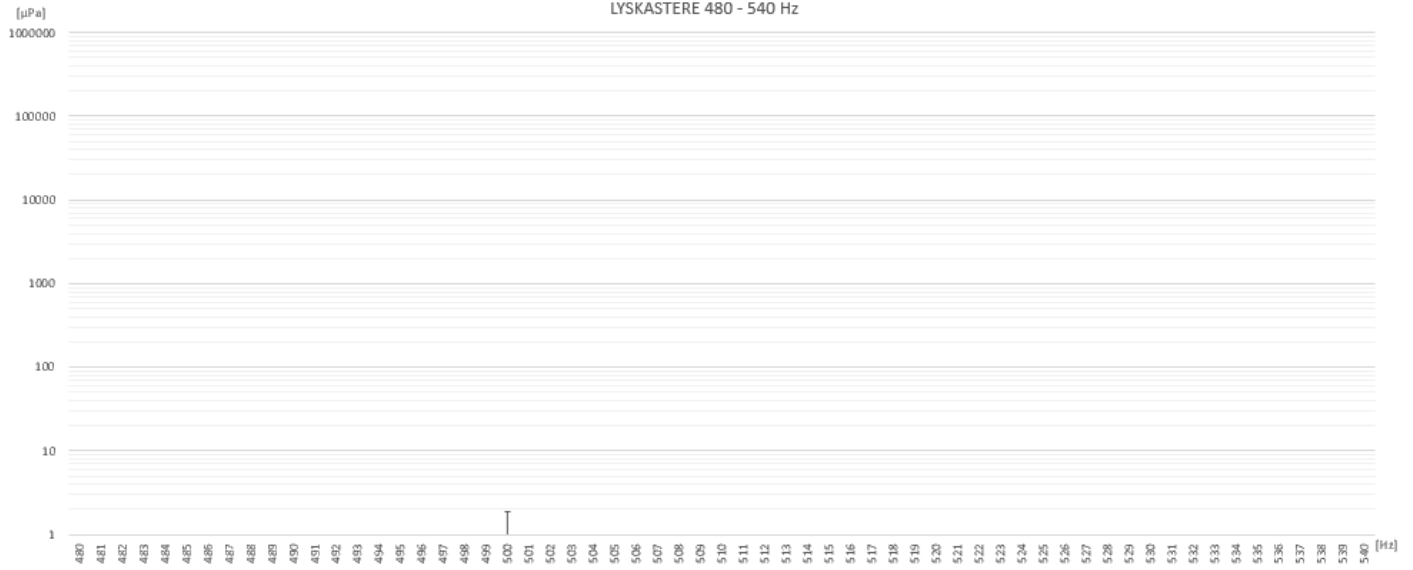
Scenario 3: Tabeller fra baseline med lys



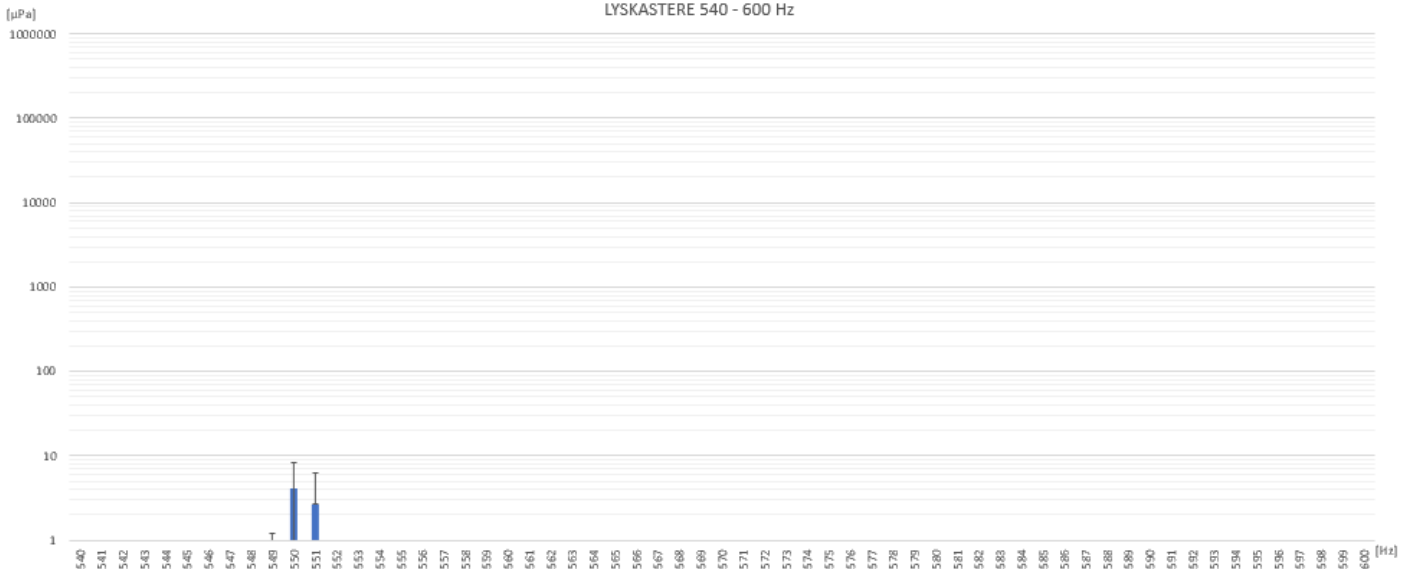




LYSKASTERE 480 - 540 Hz



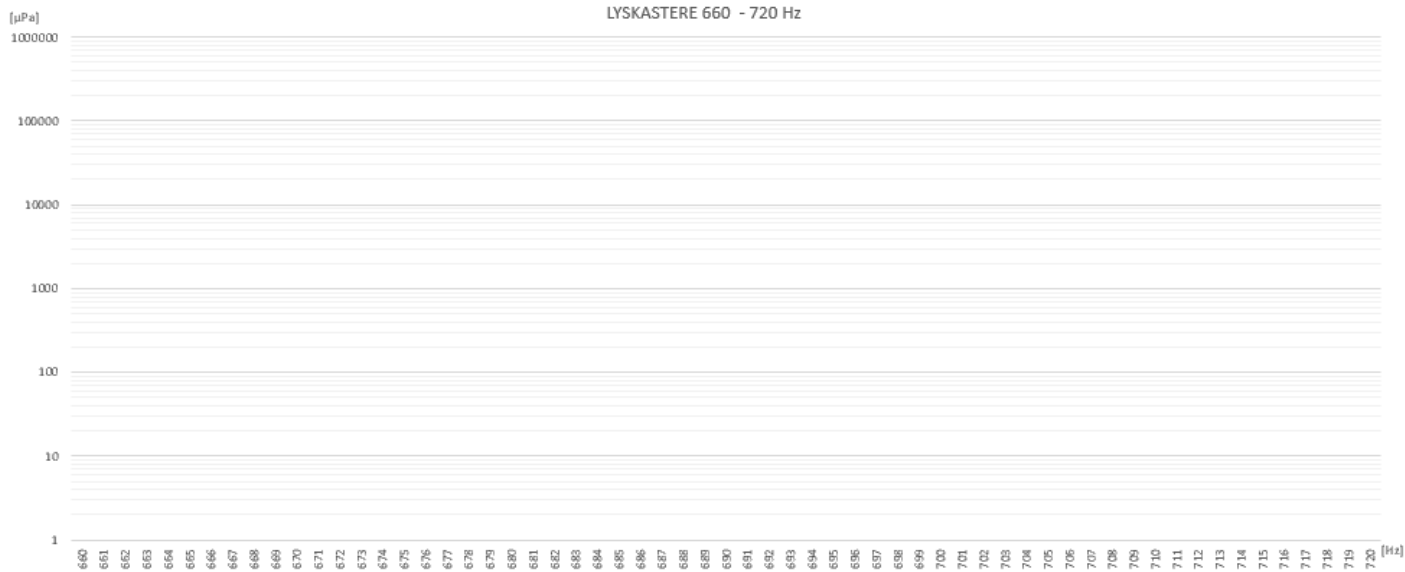
LYSKASTERE 540 - 600 Hz



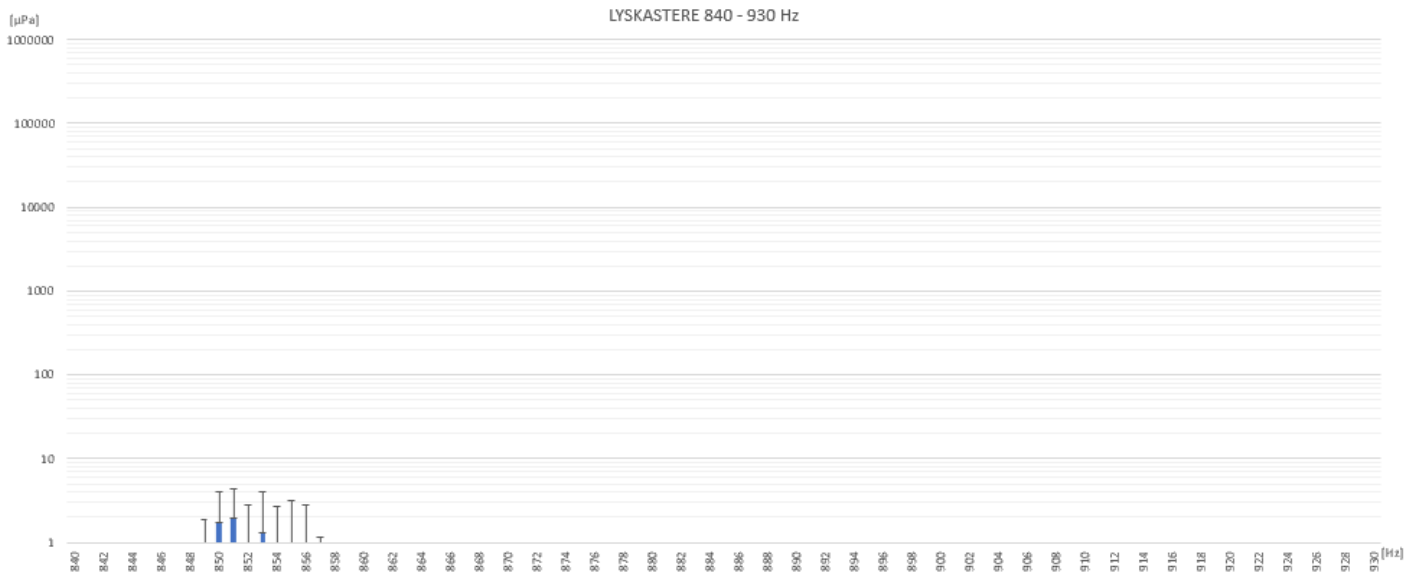
LYSKASTERE 600 - 660 Hz



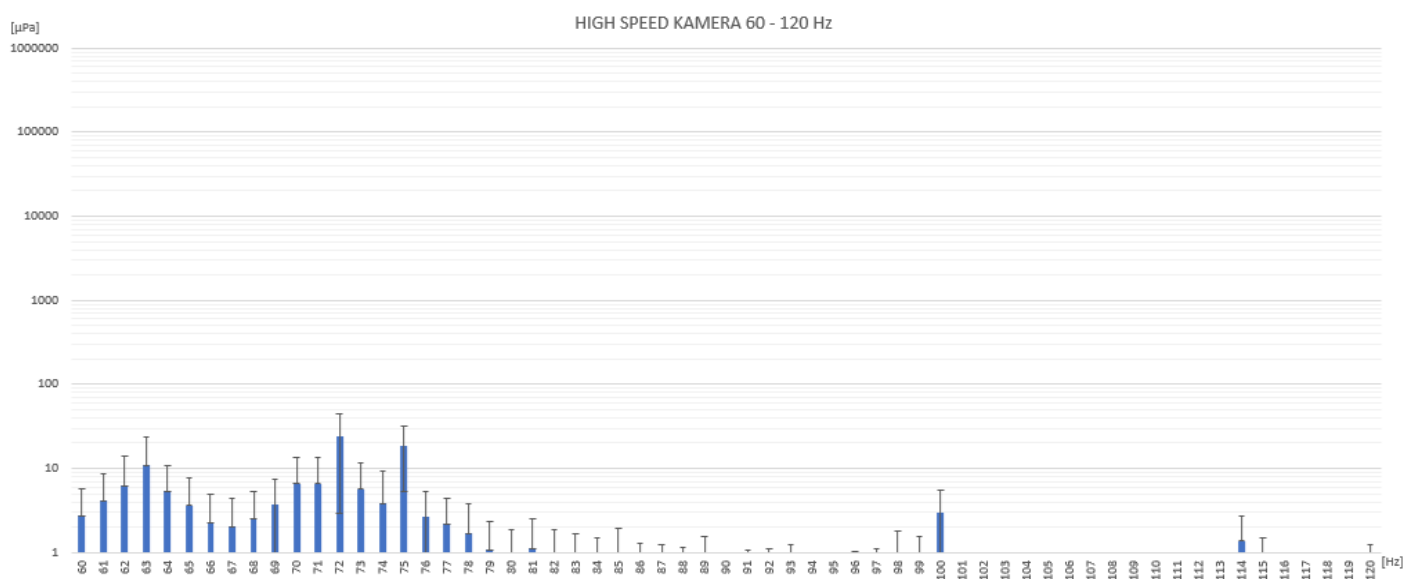
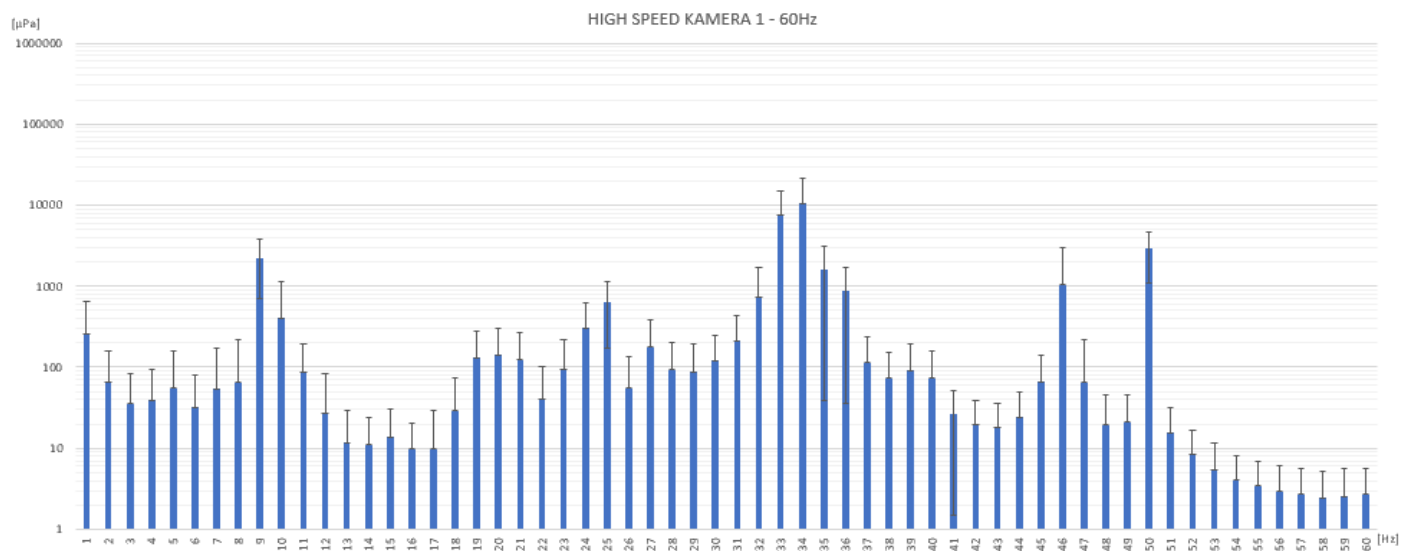
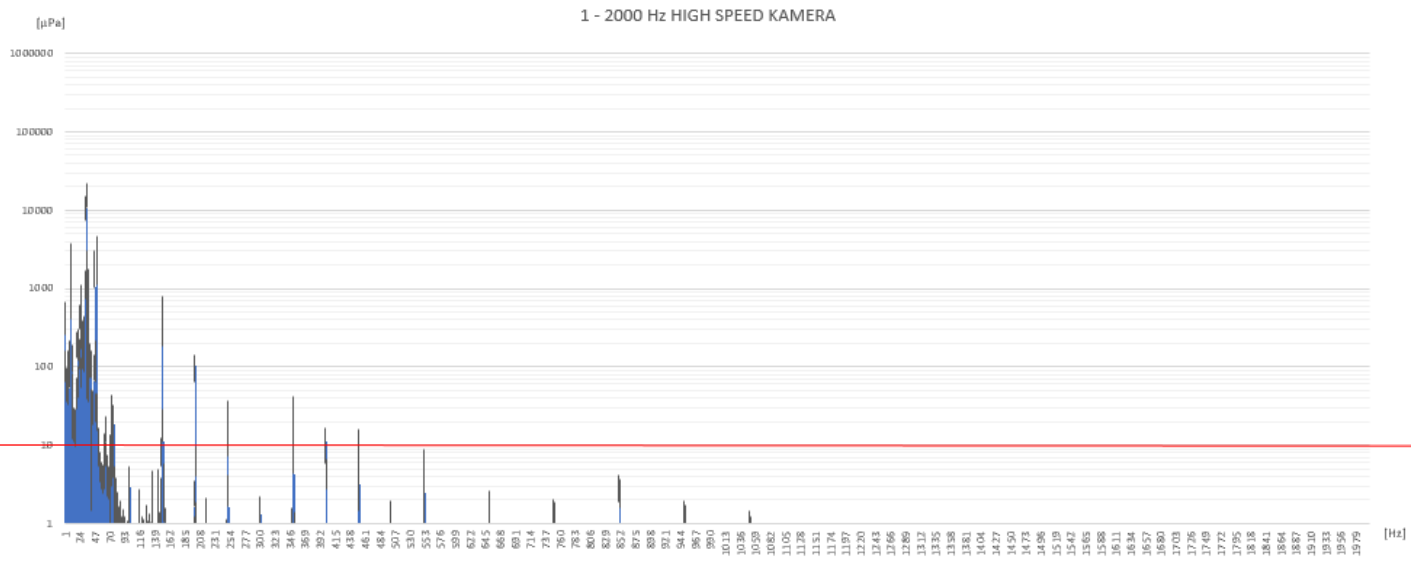
LYSKASTERE 660 - 720 Hz

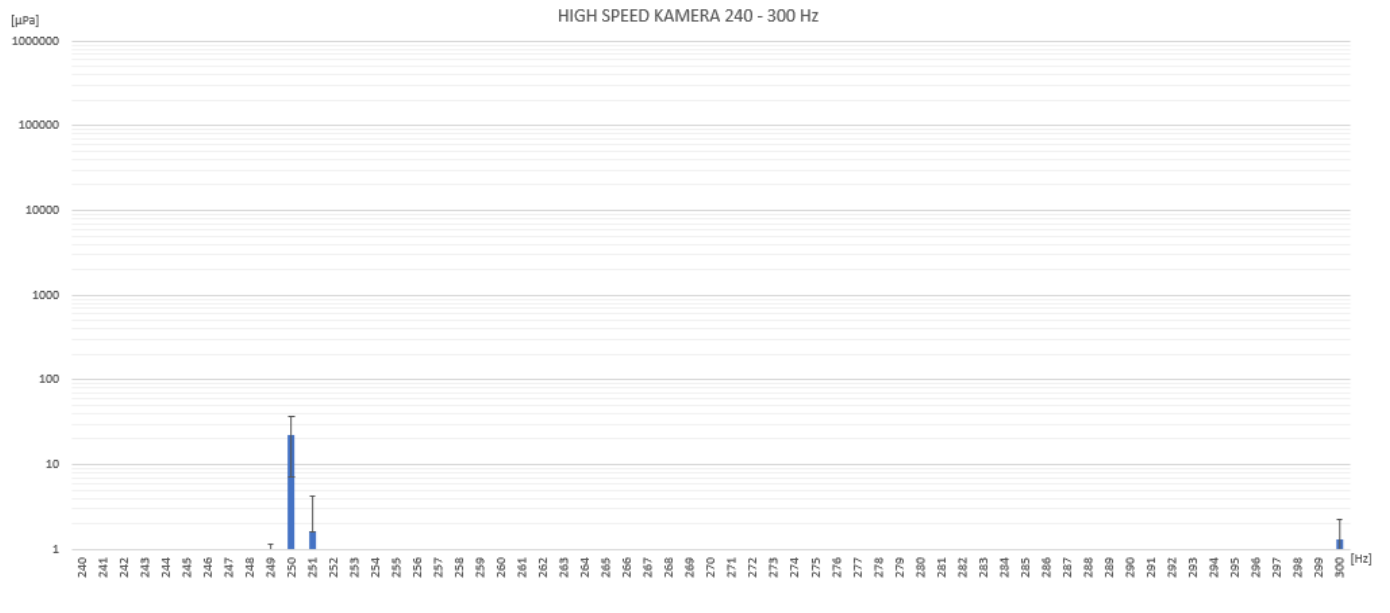
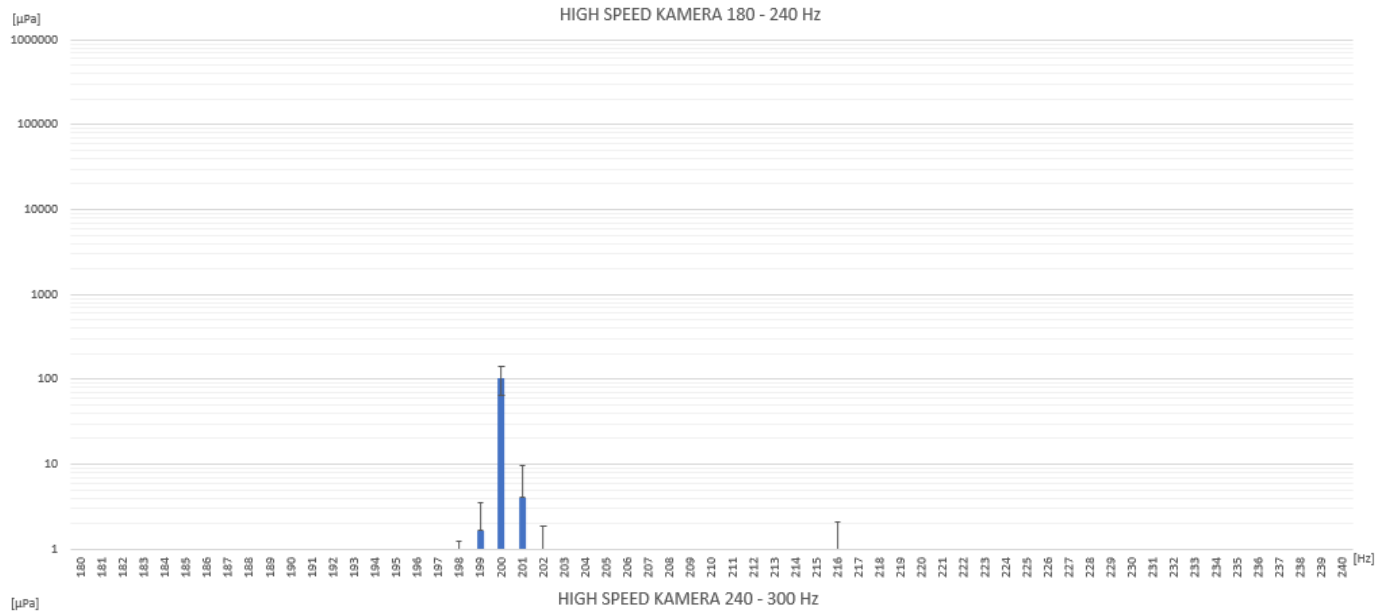
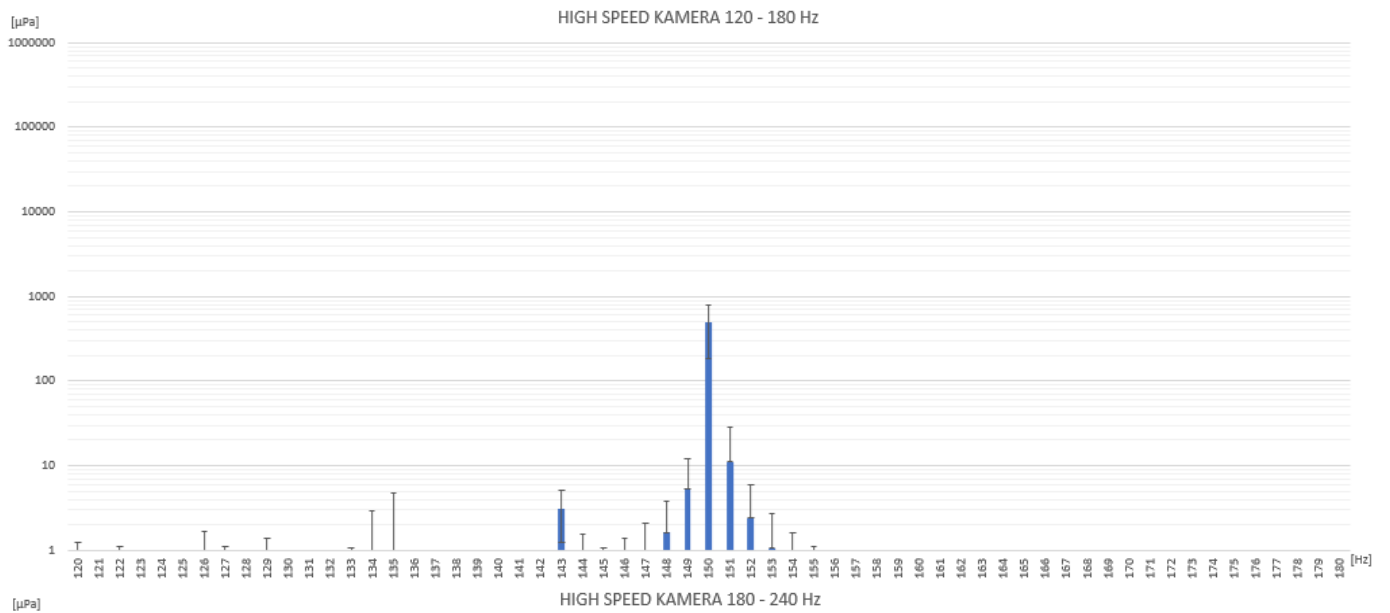


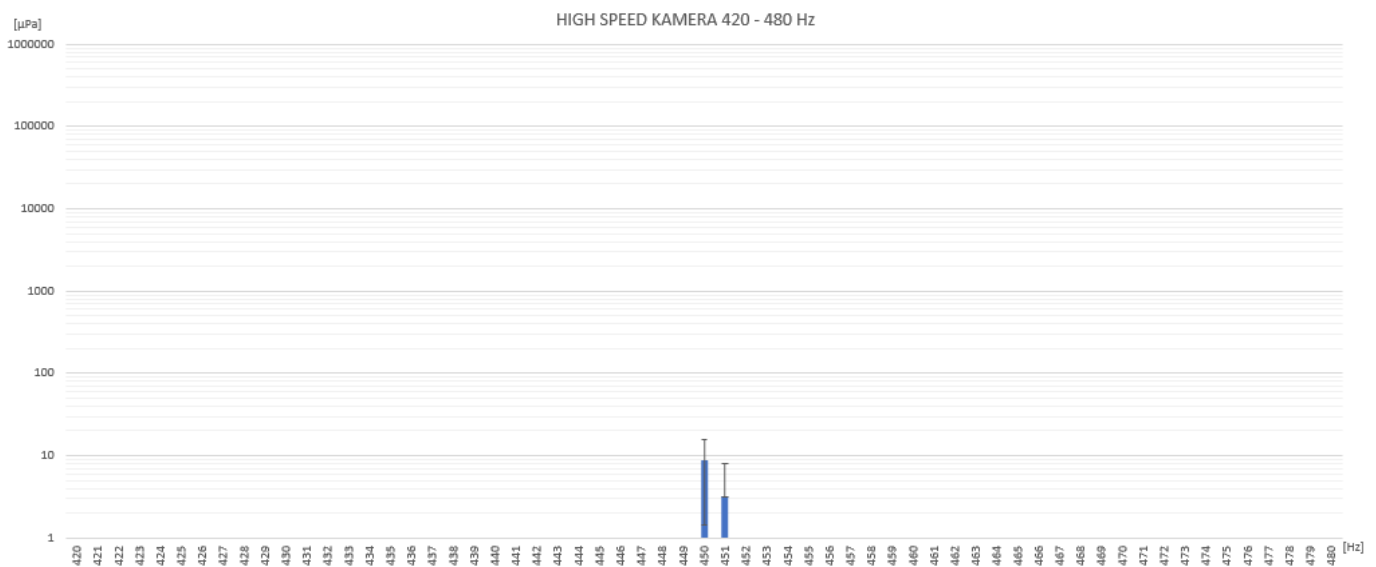
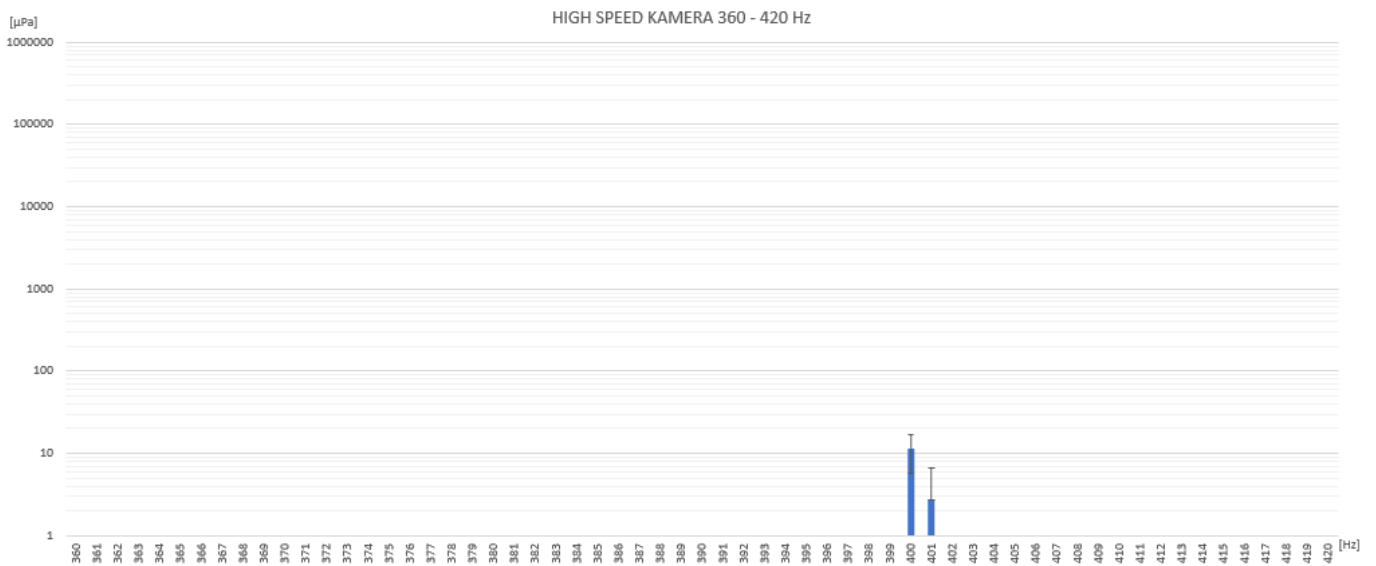
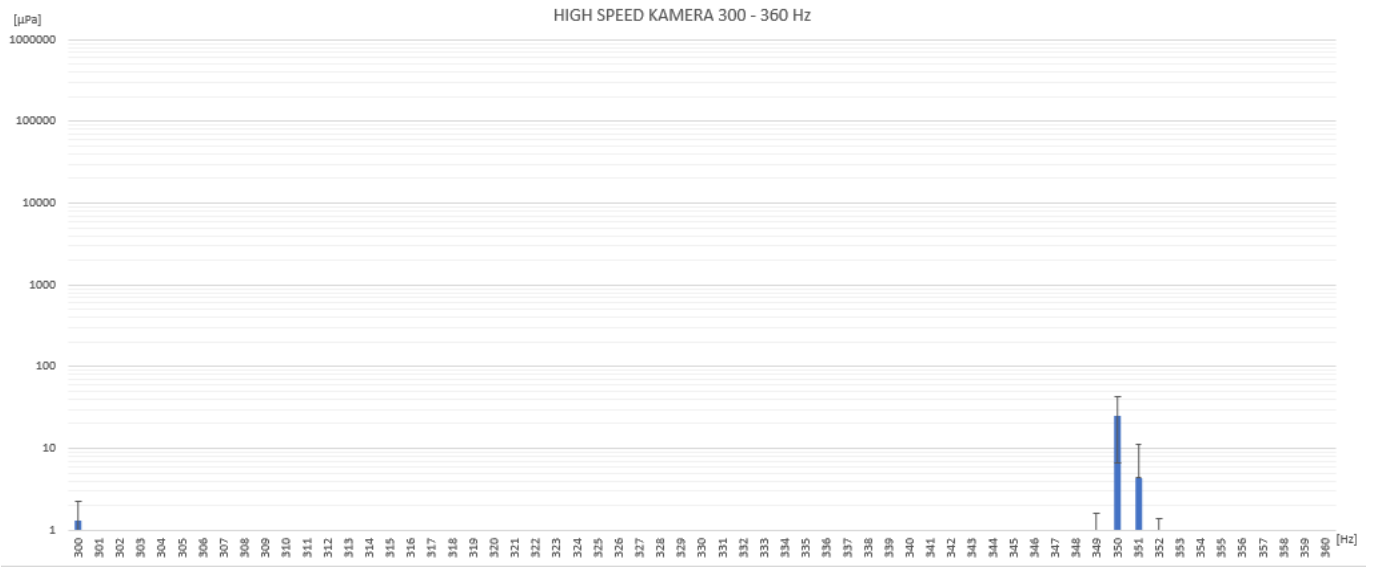
LYSKASTERE 840 - 930 Hz

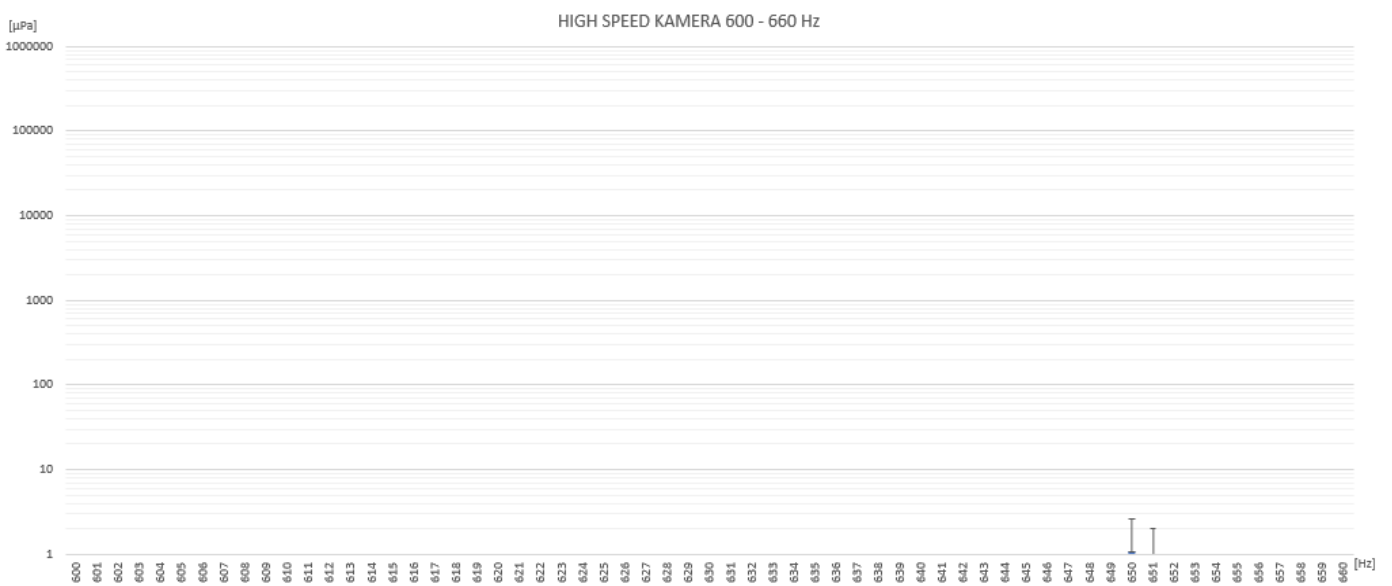
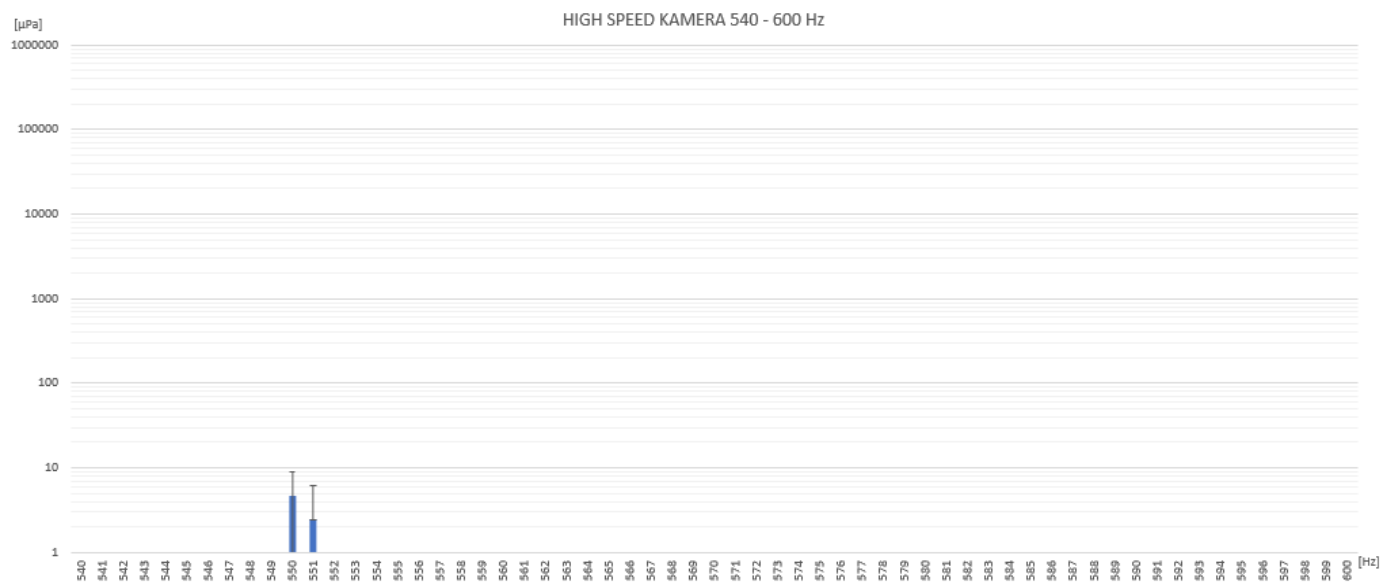
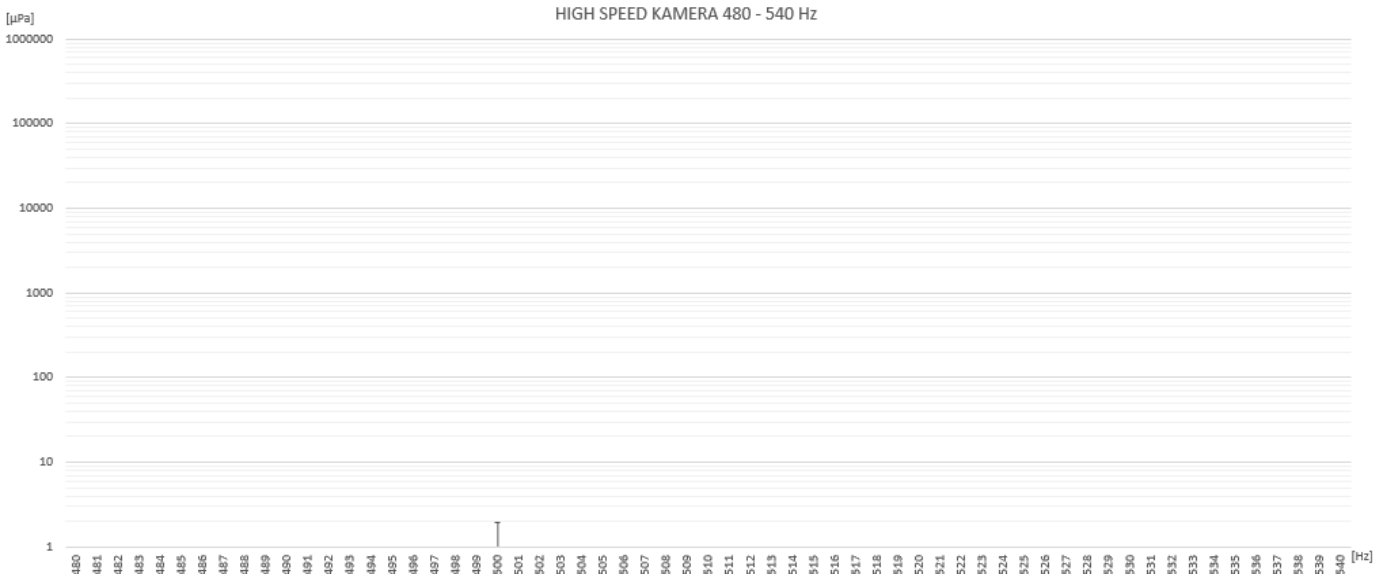


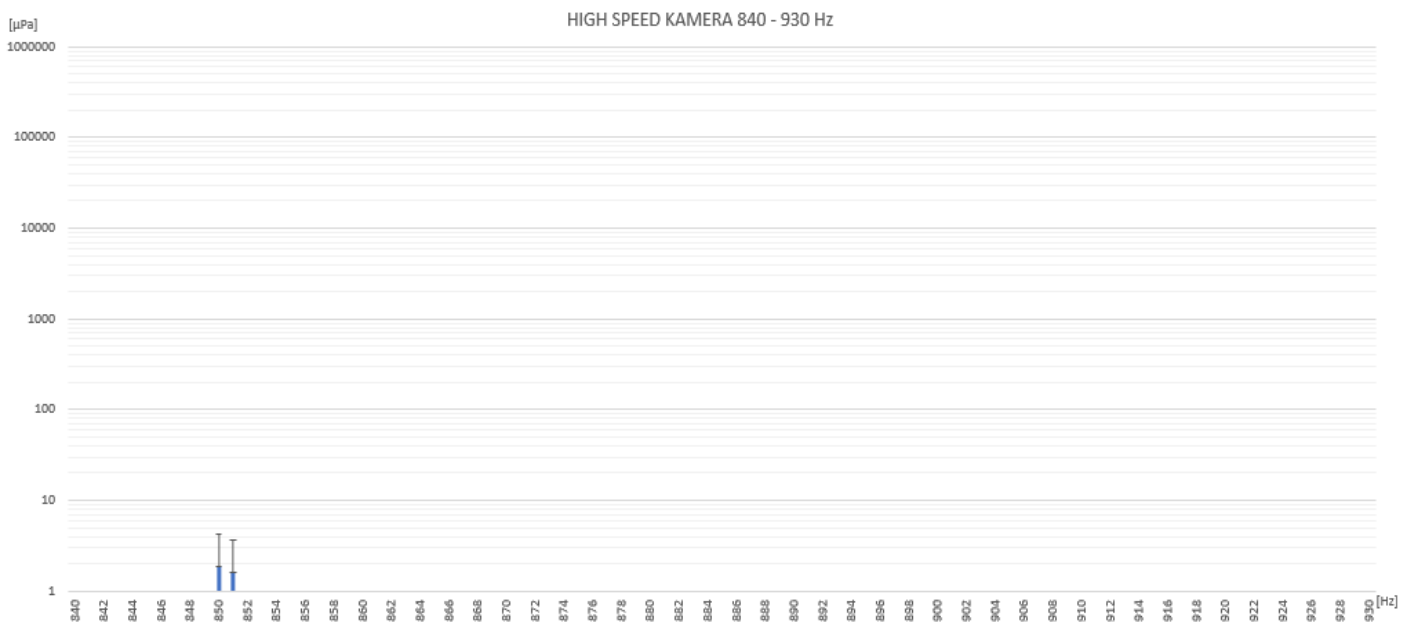
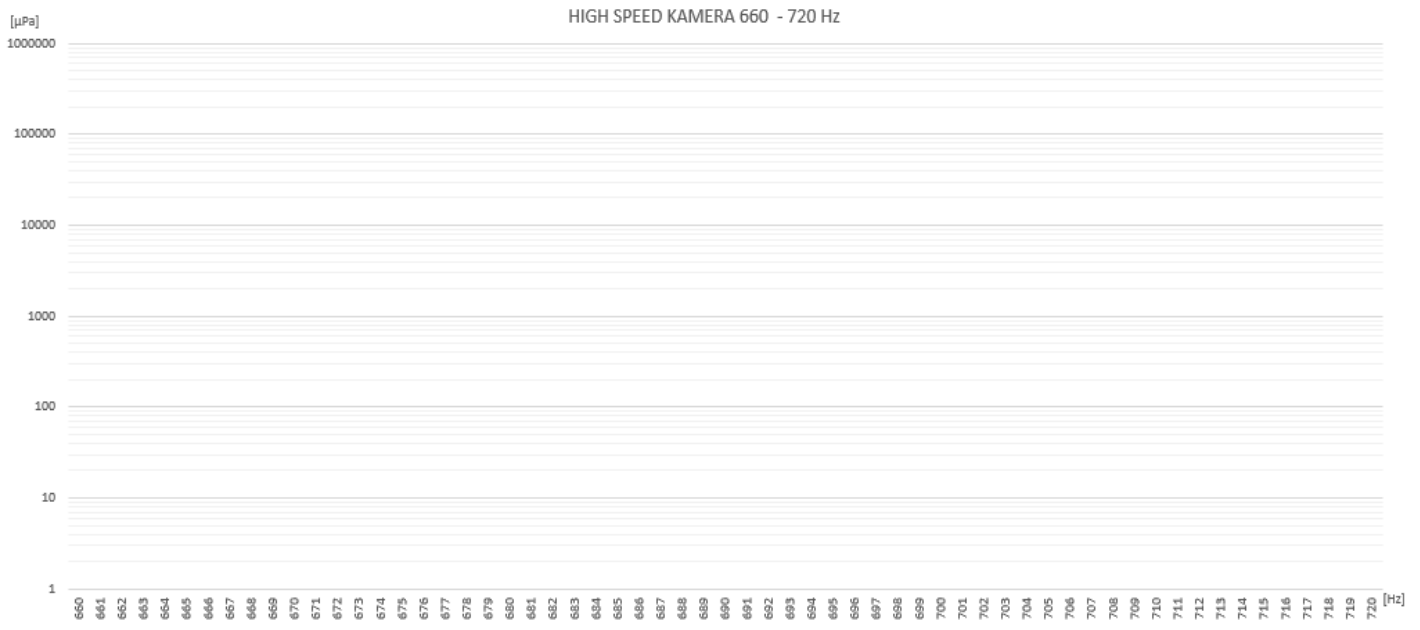
Scenario 4: Tabeller fra baseline med high speed kamera



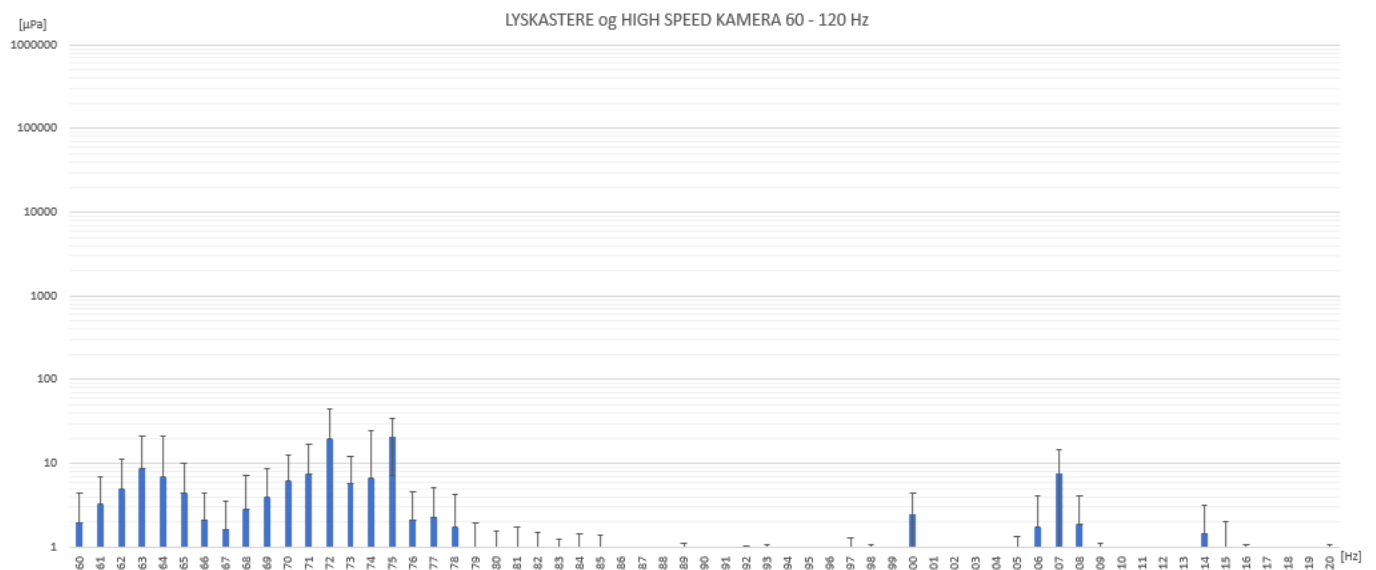
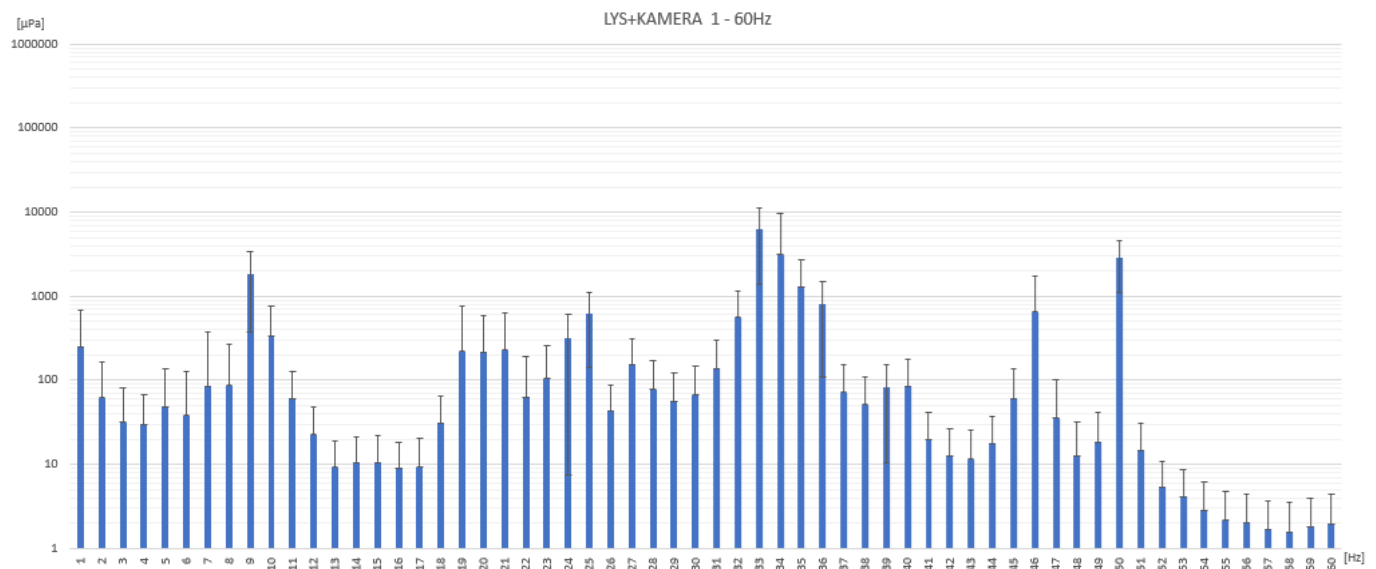
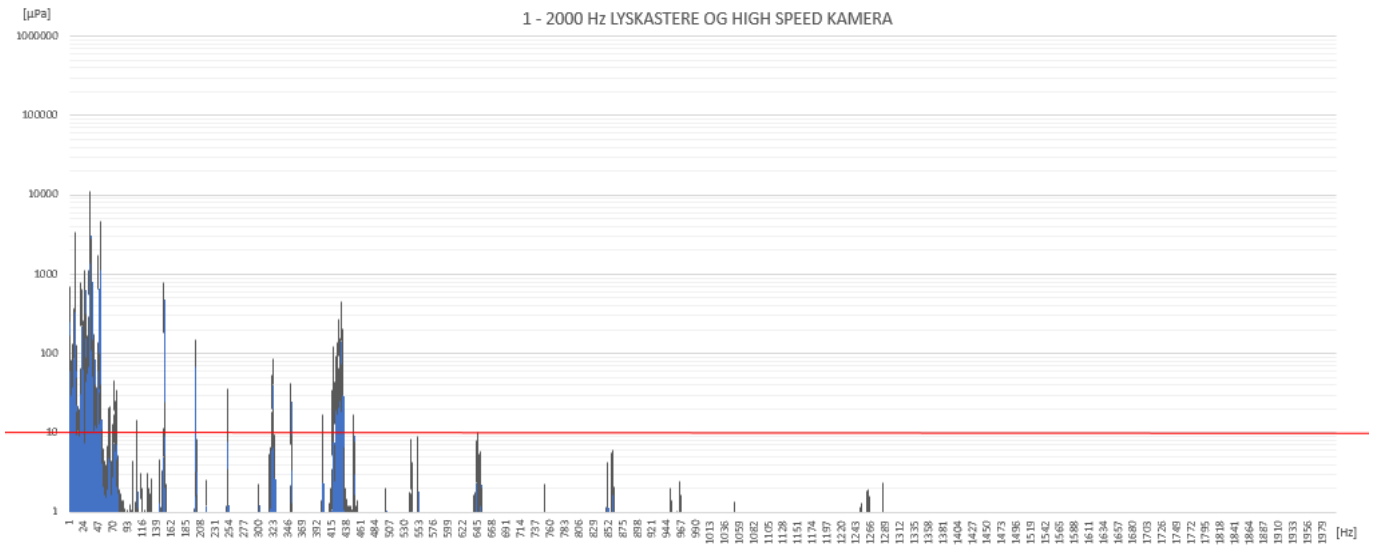


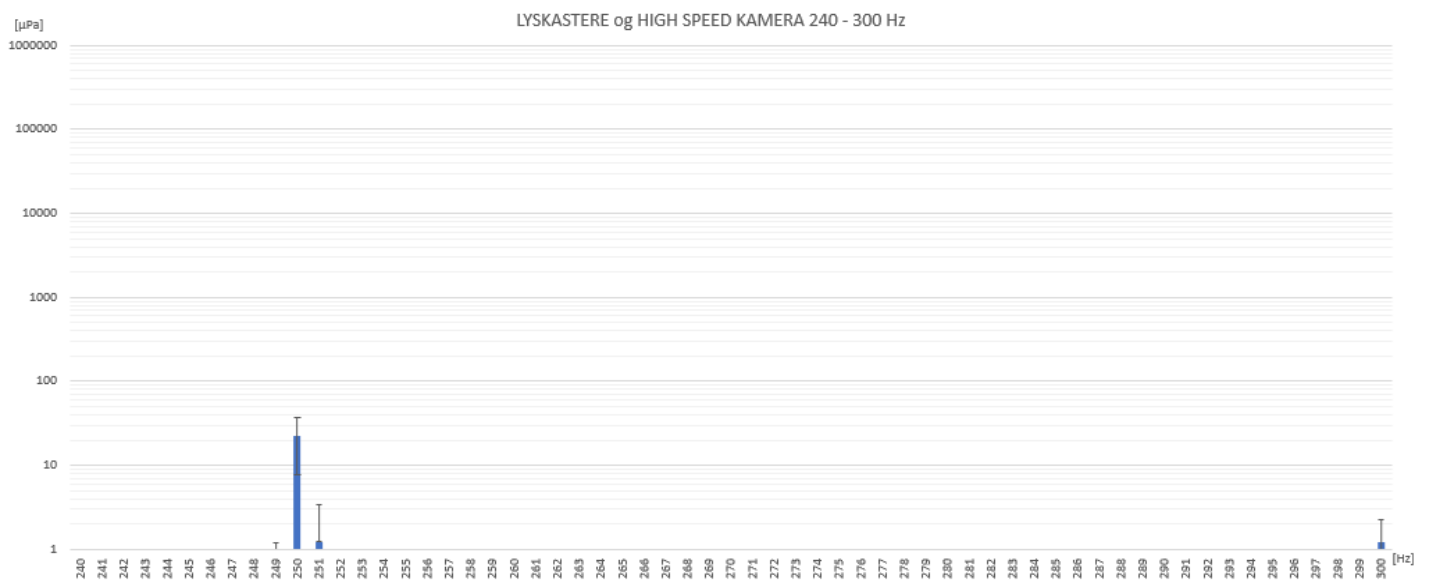
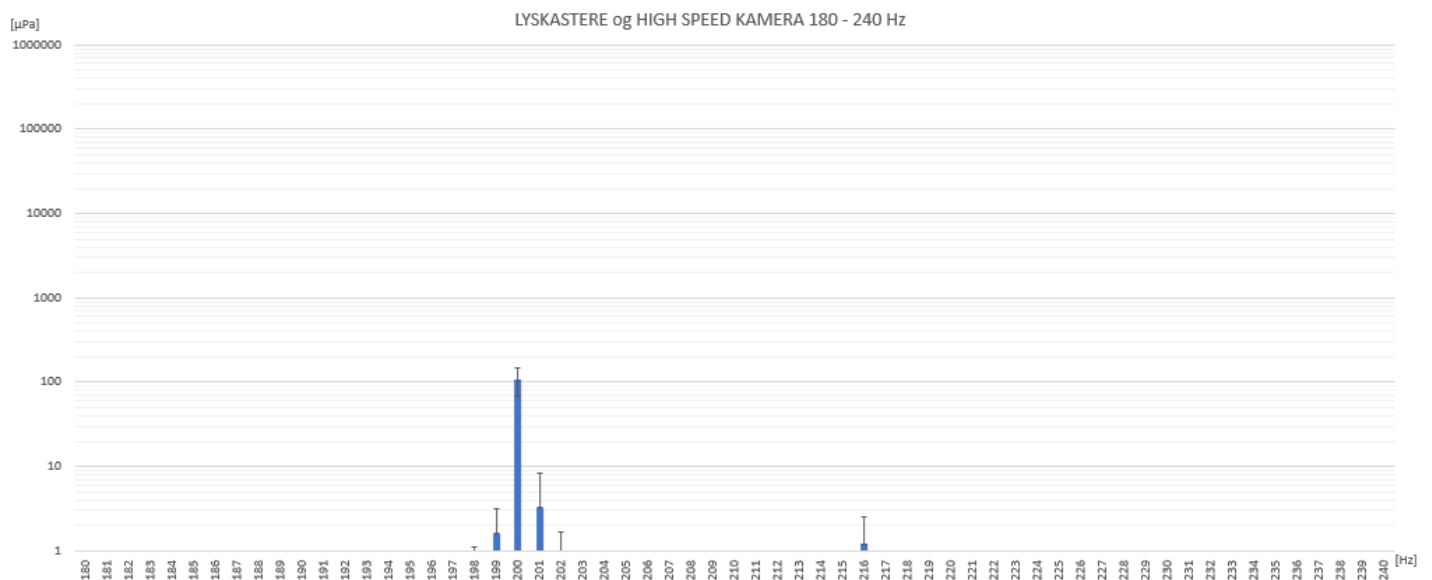
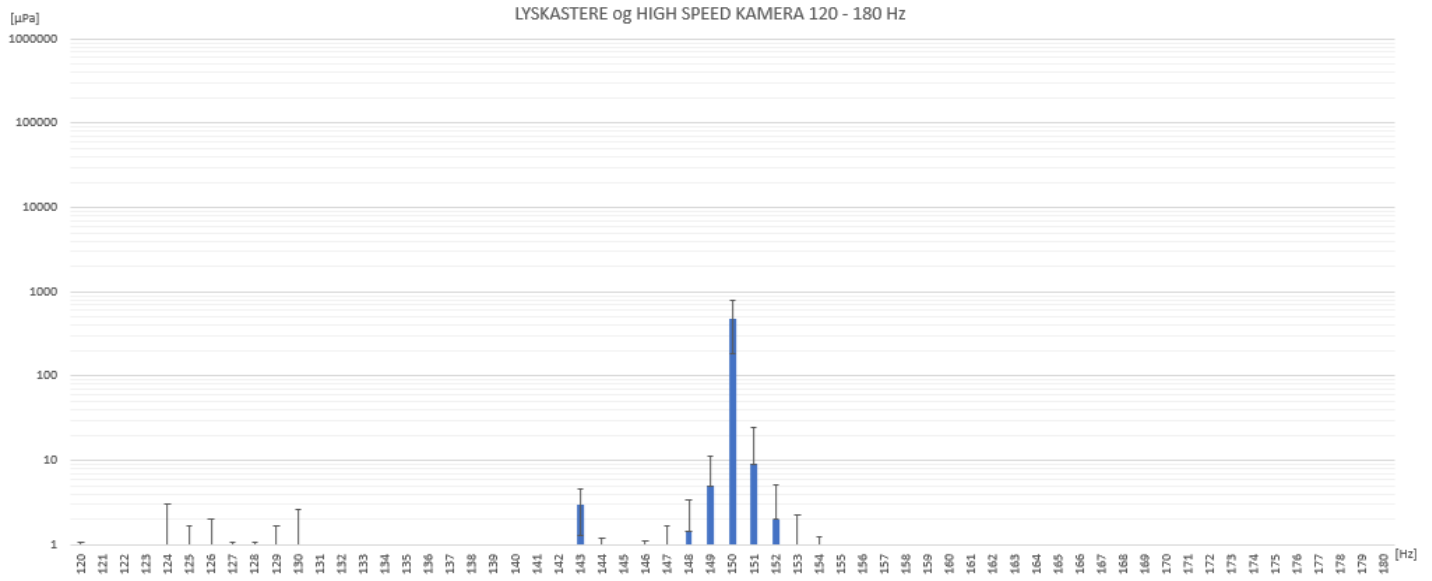


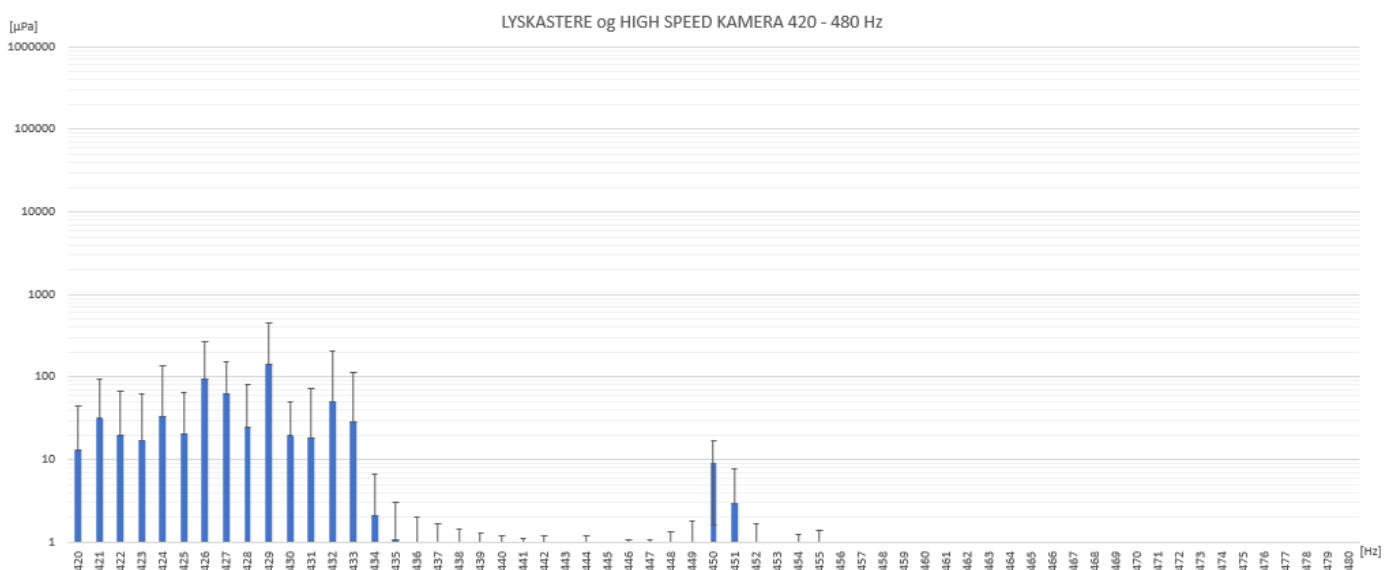
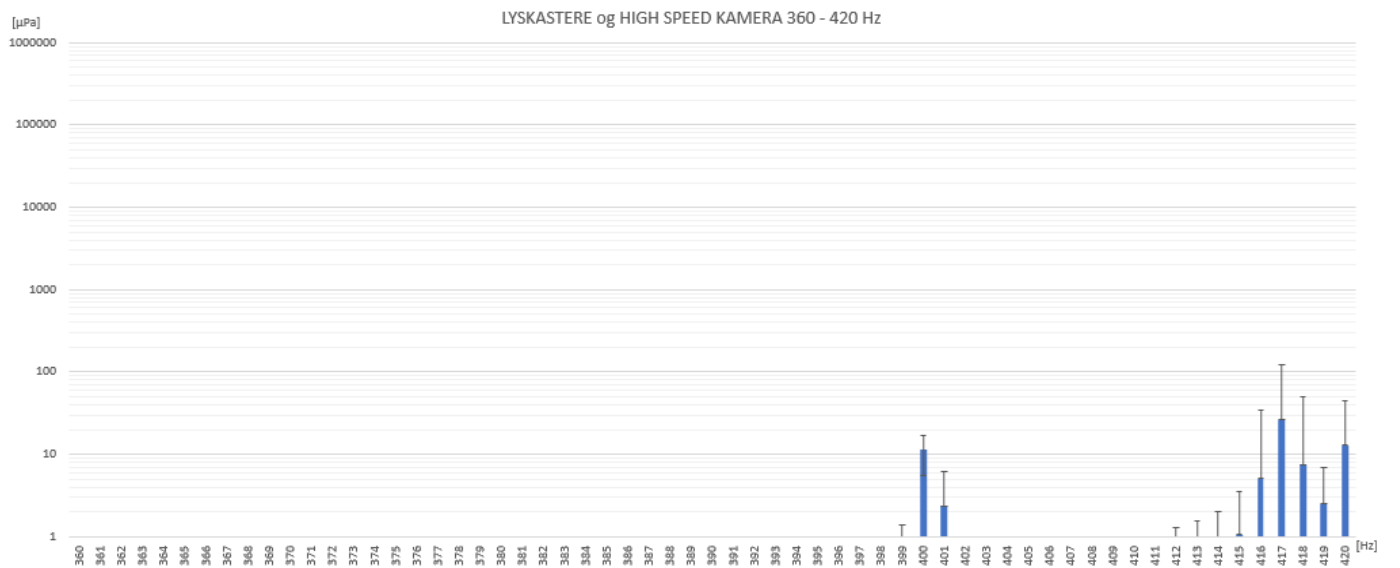
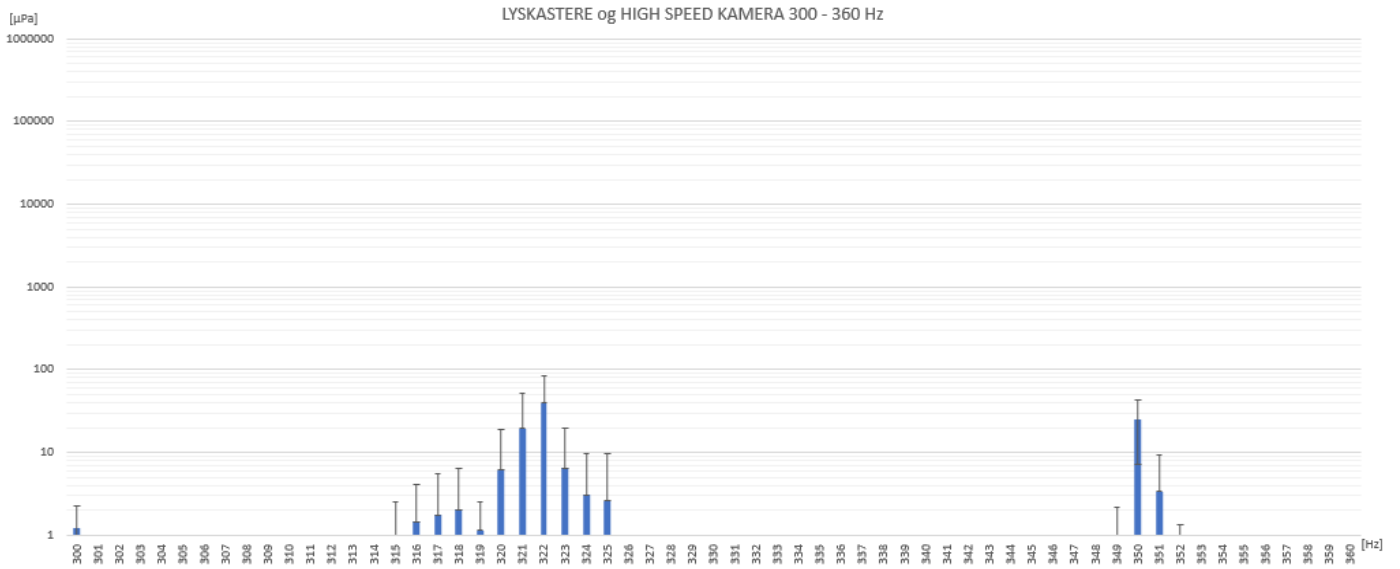


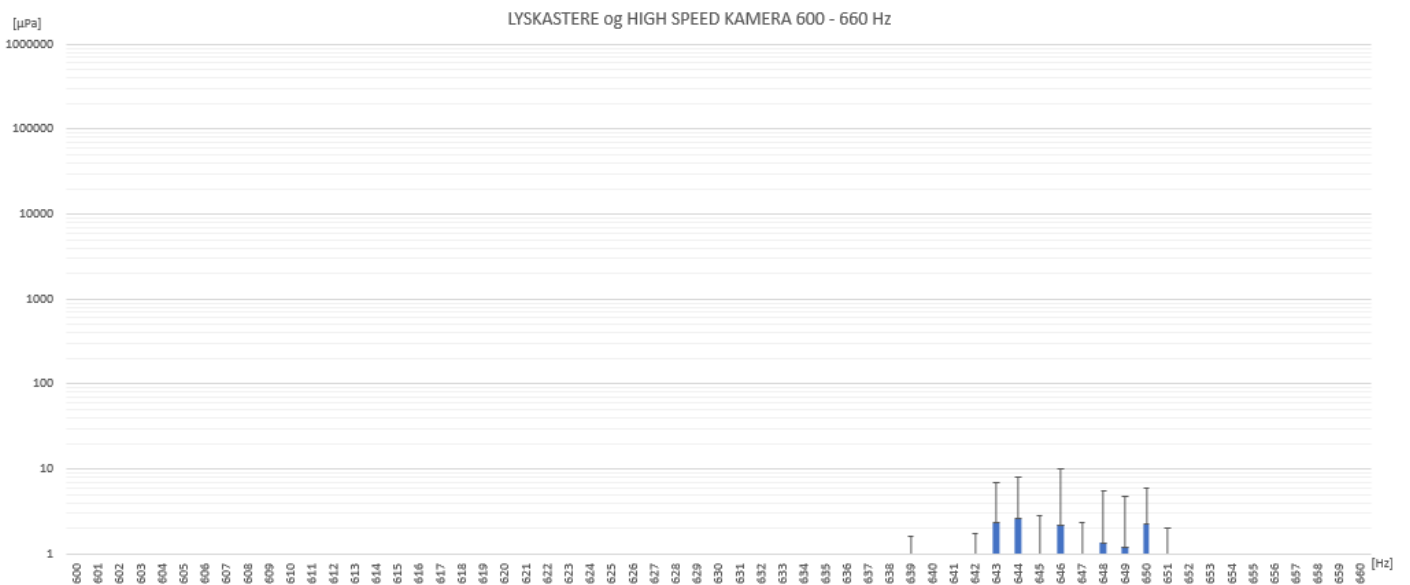
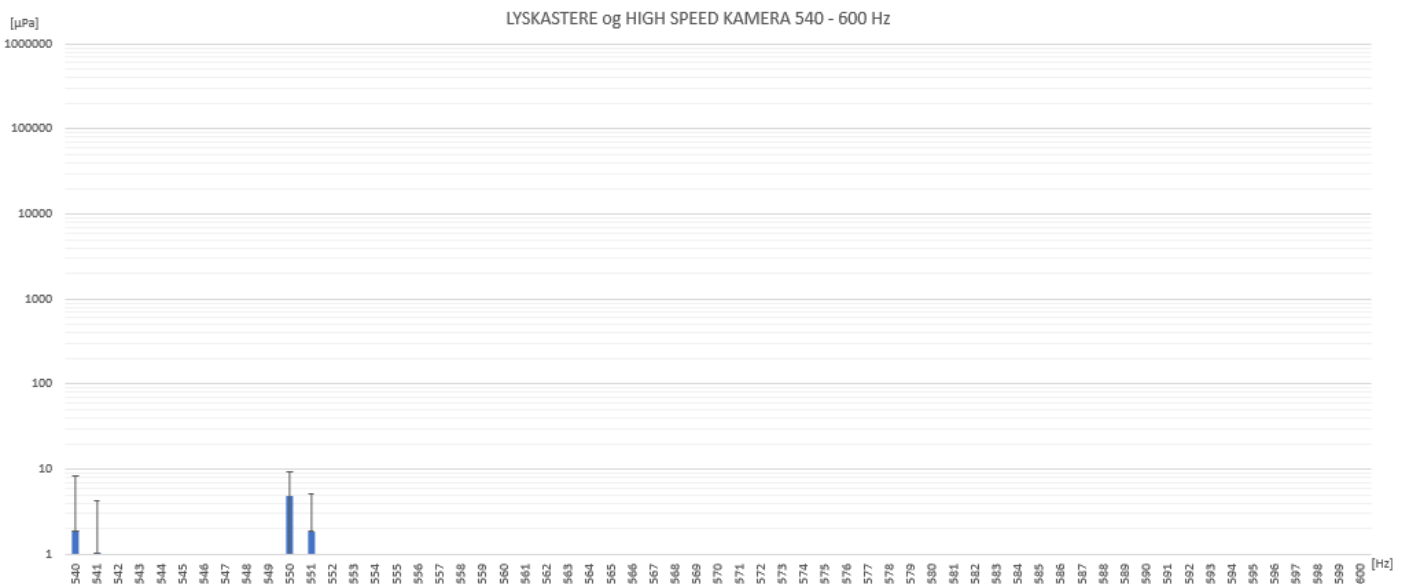
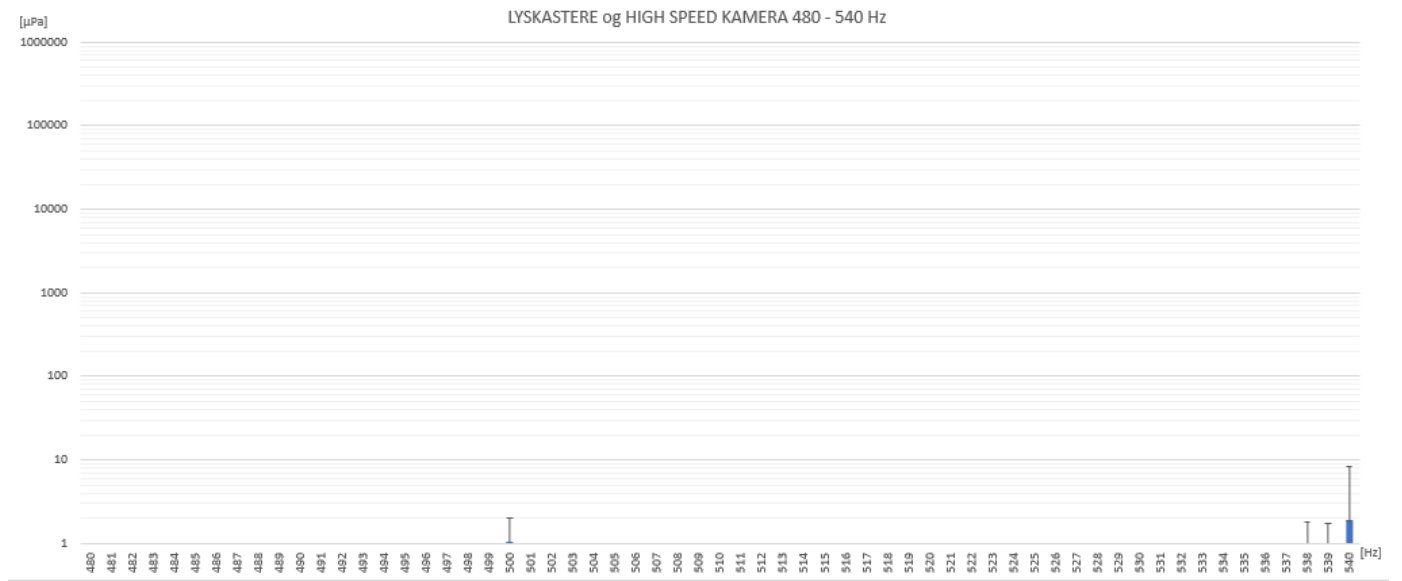


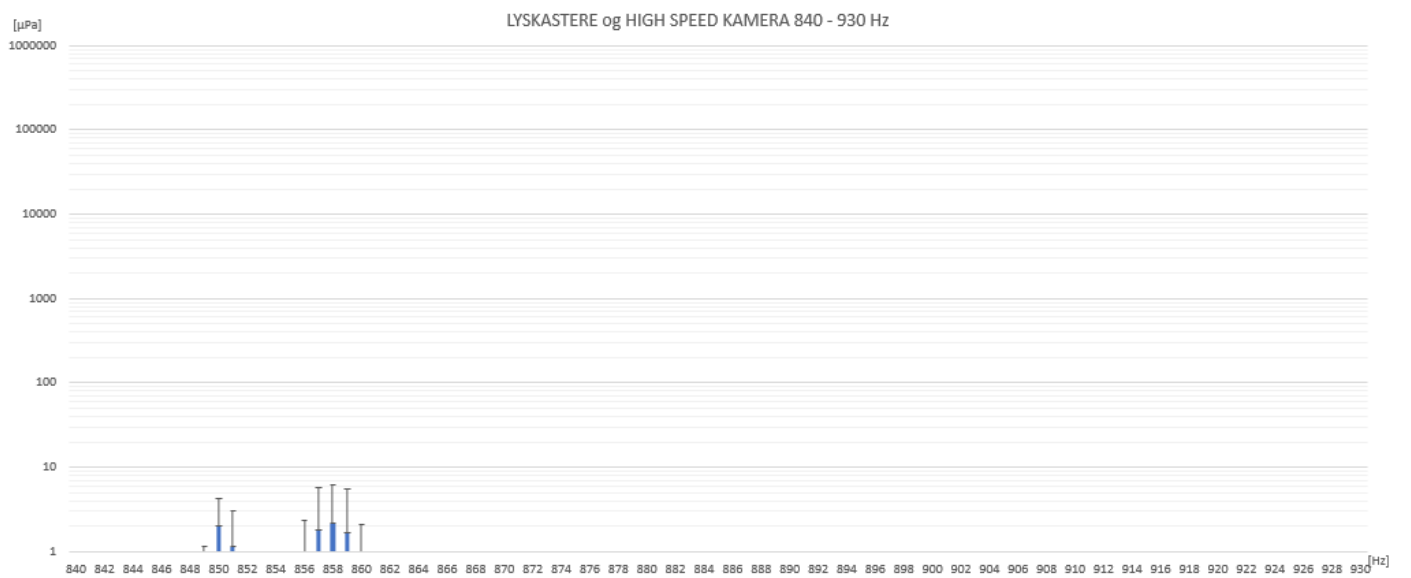
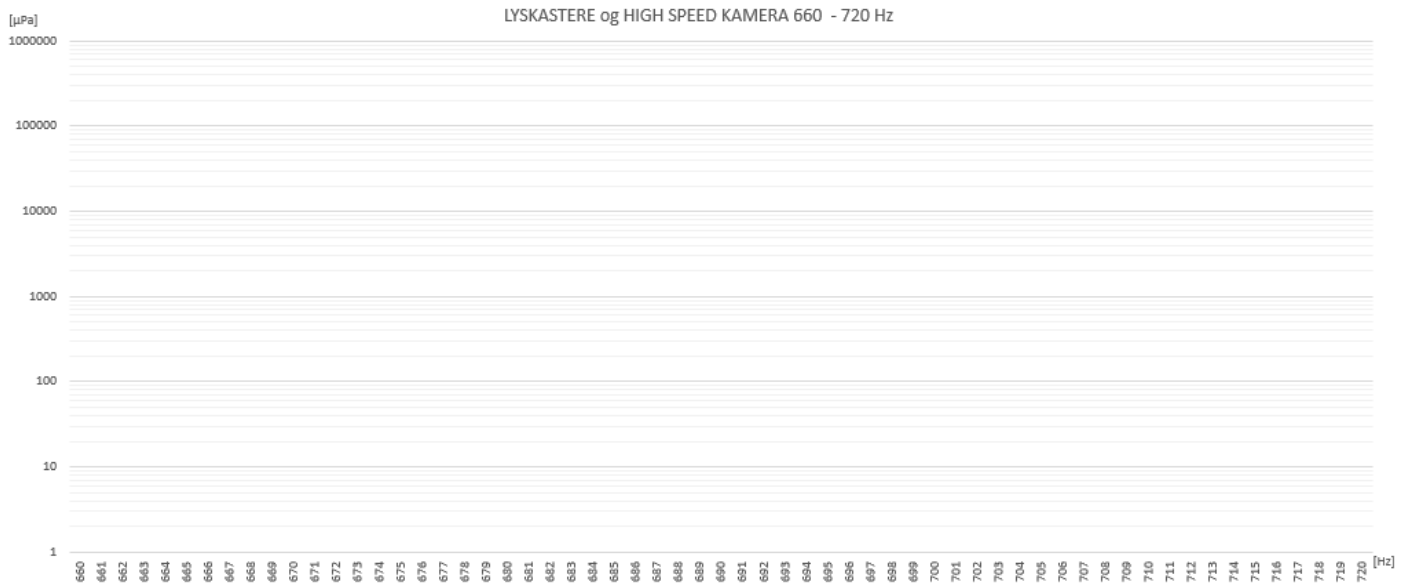
Scenario 5: Tabeller fra baseline med lys og high speed kamera



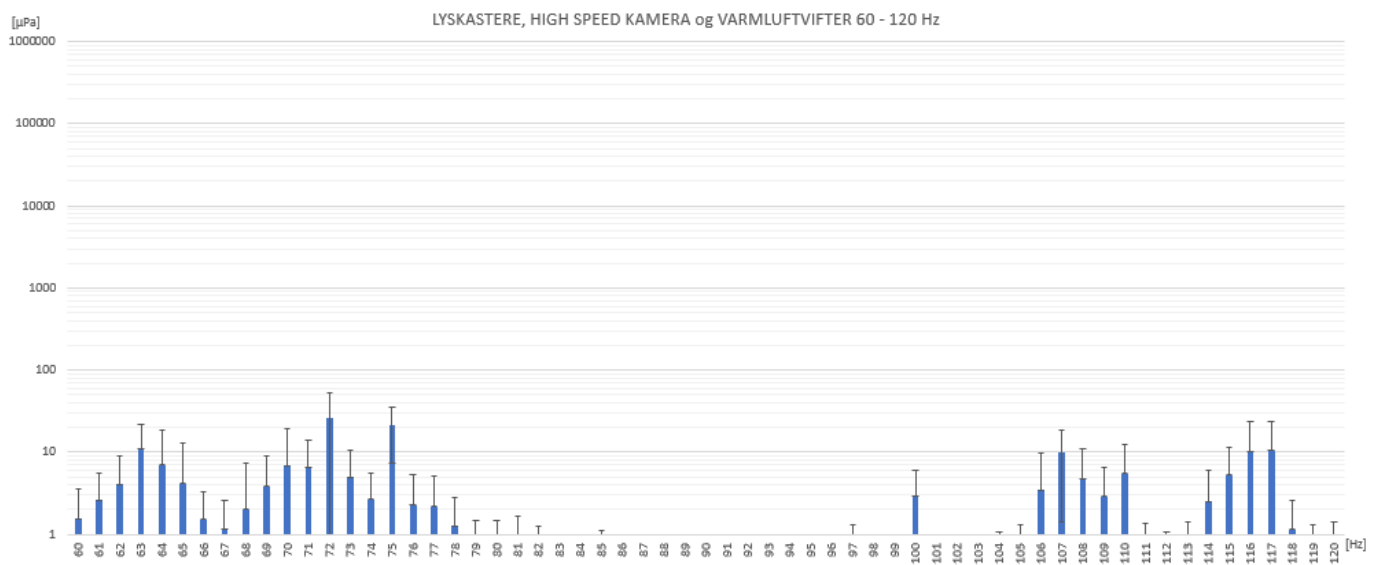
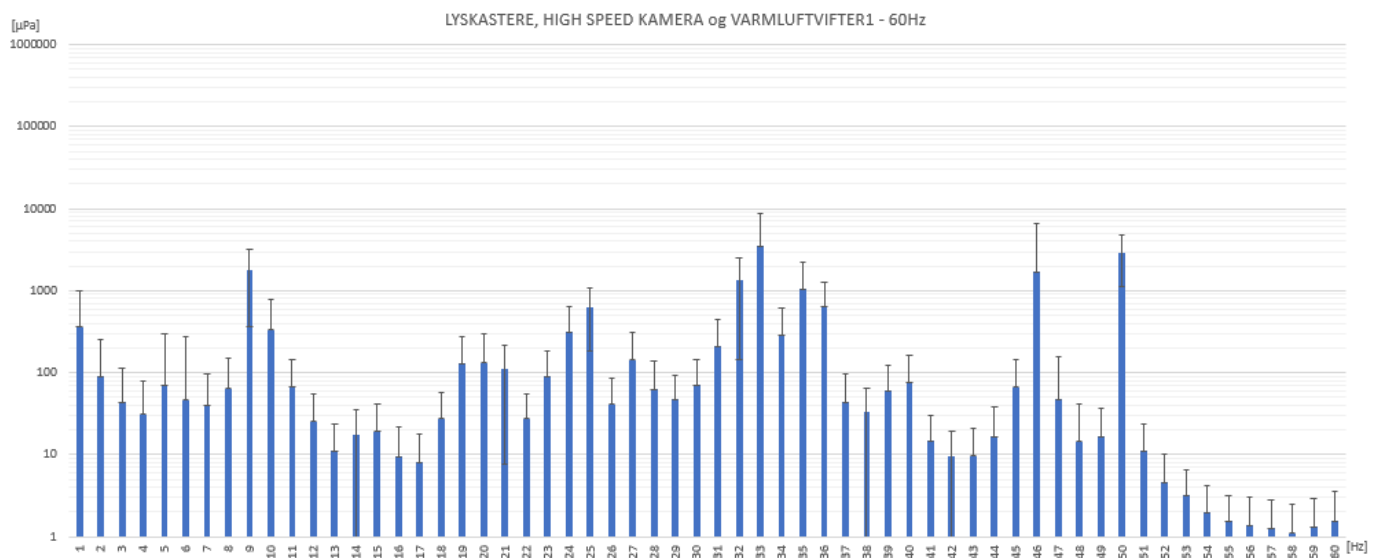
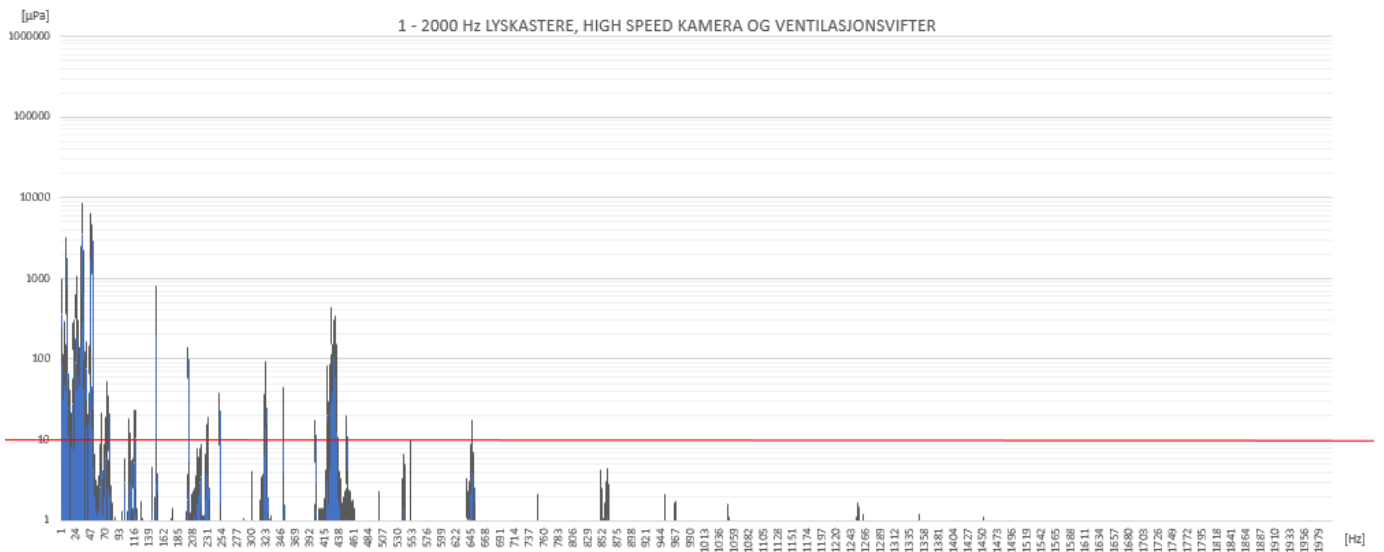


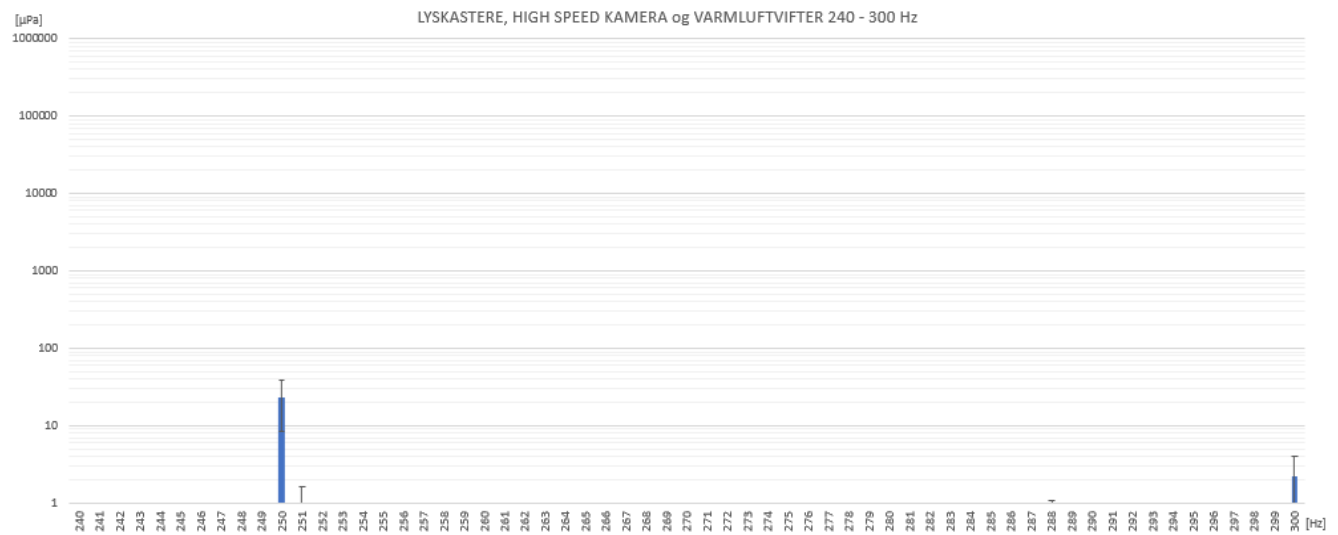
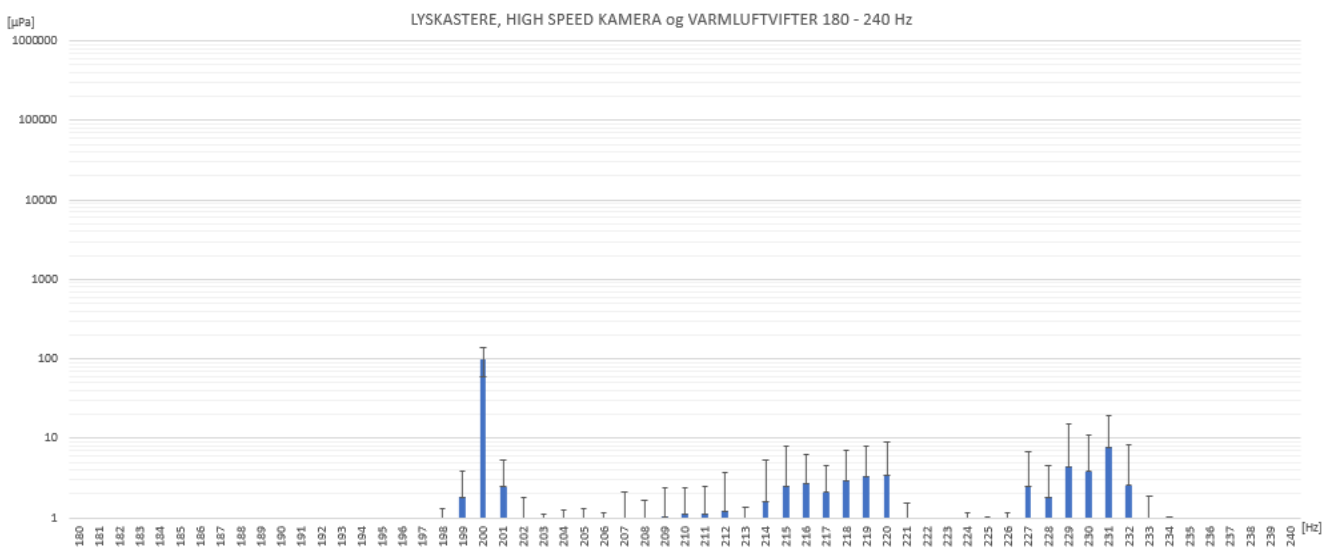
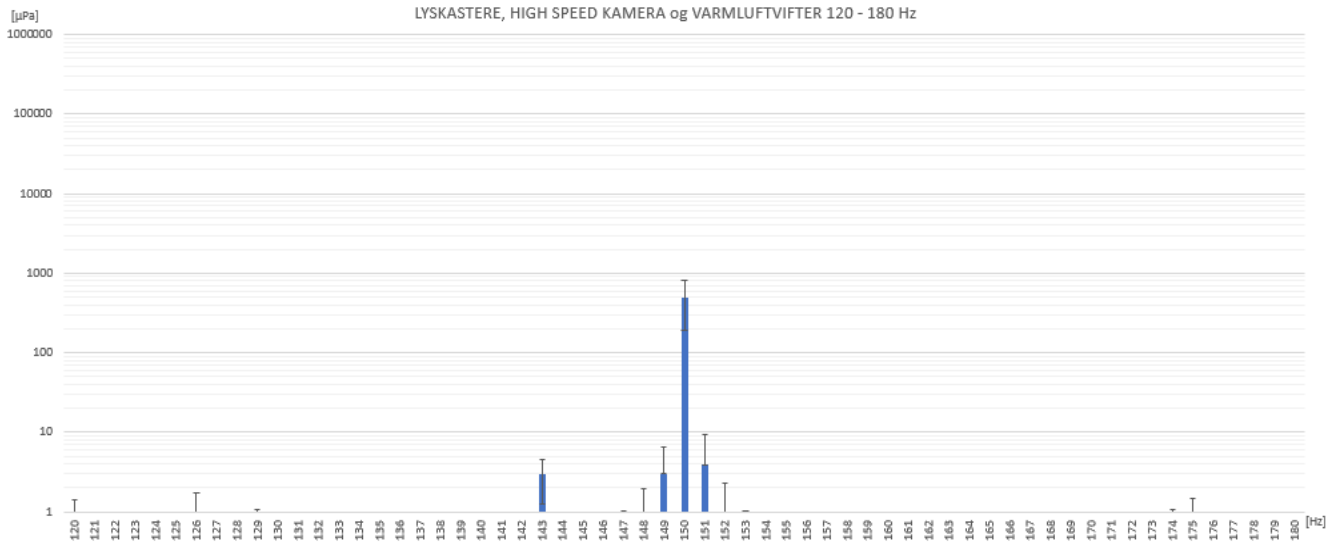


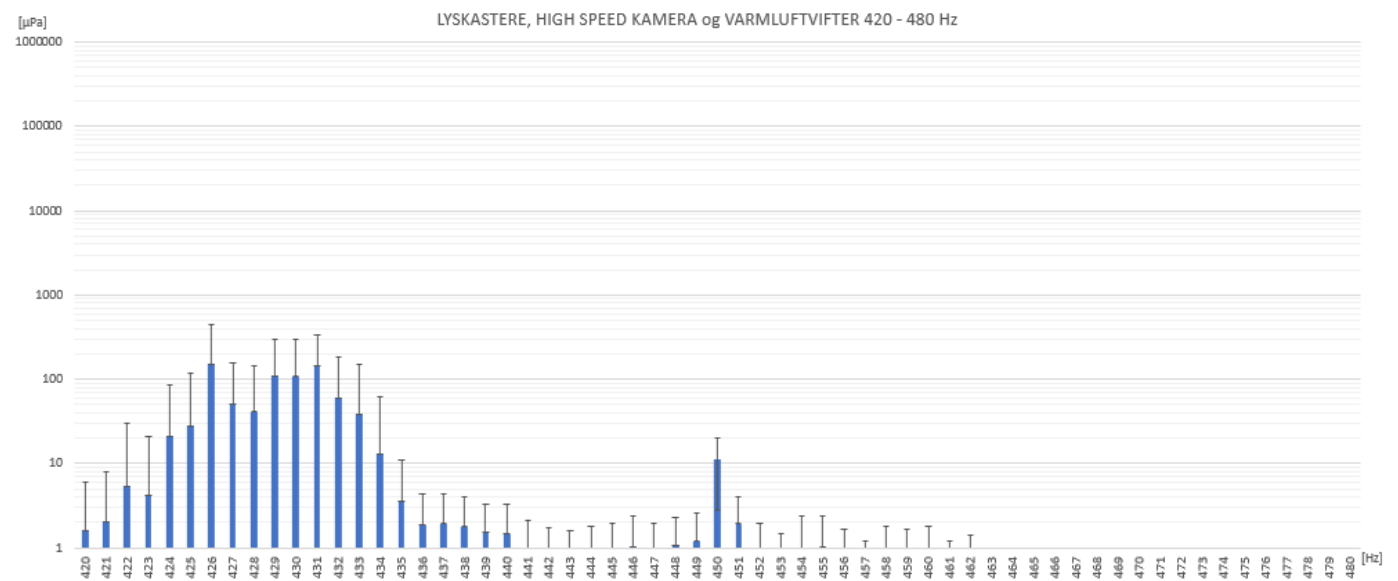
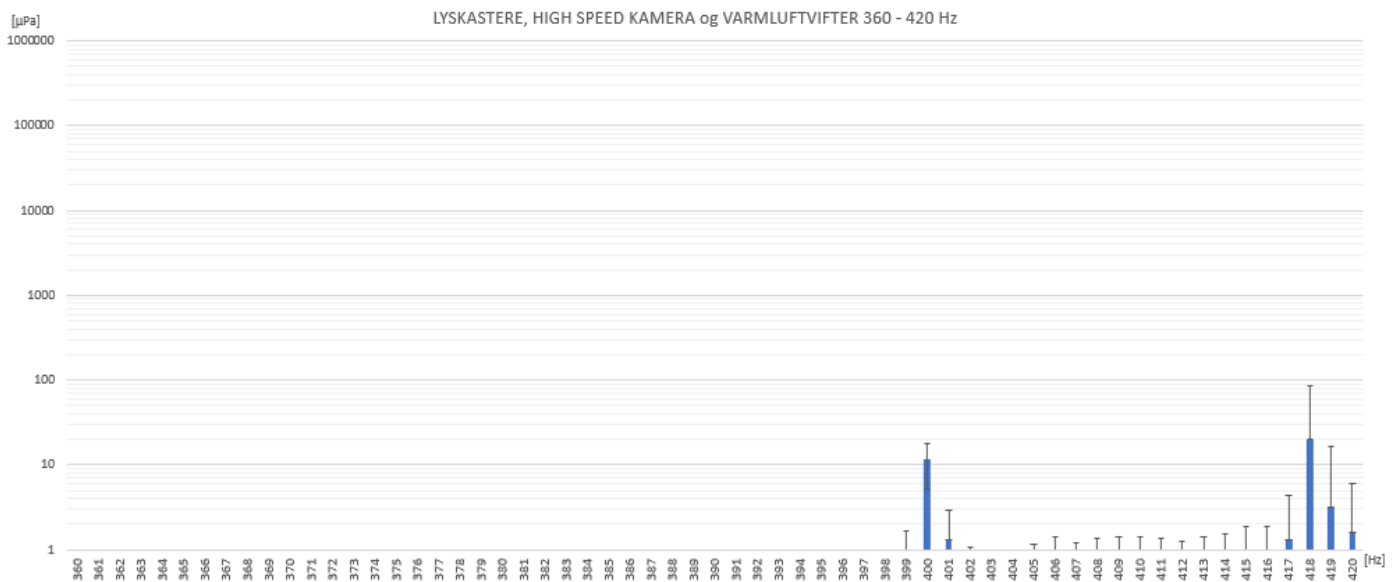
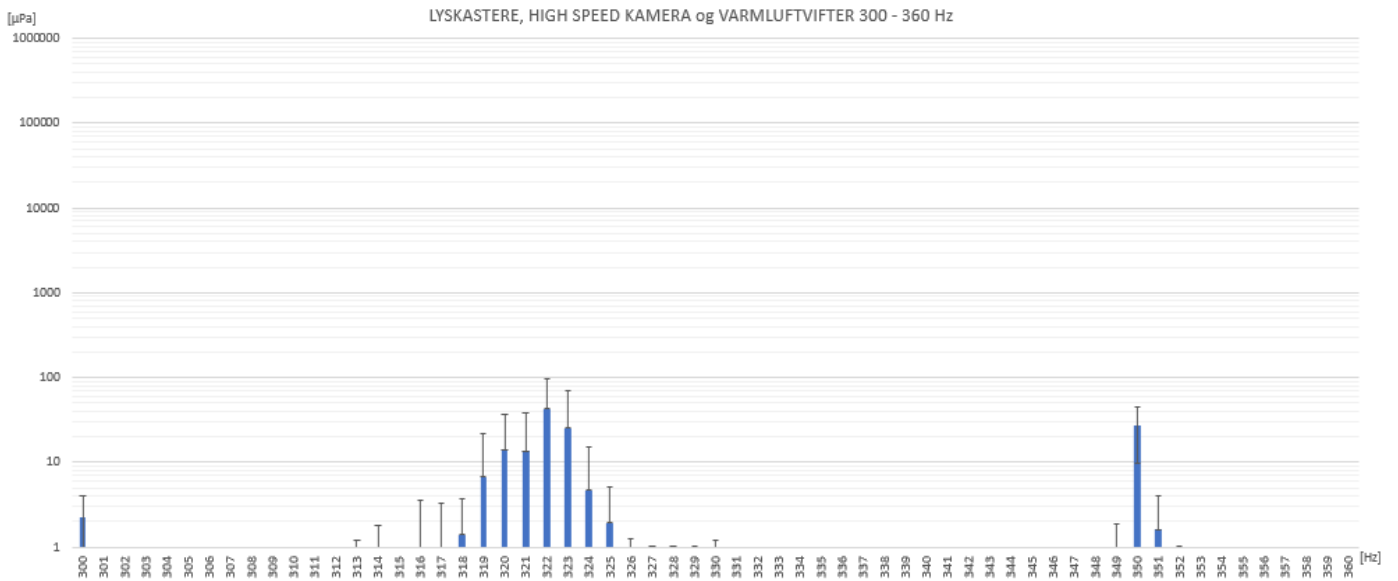


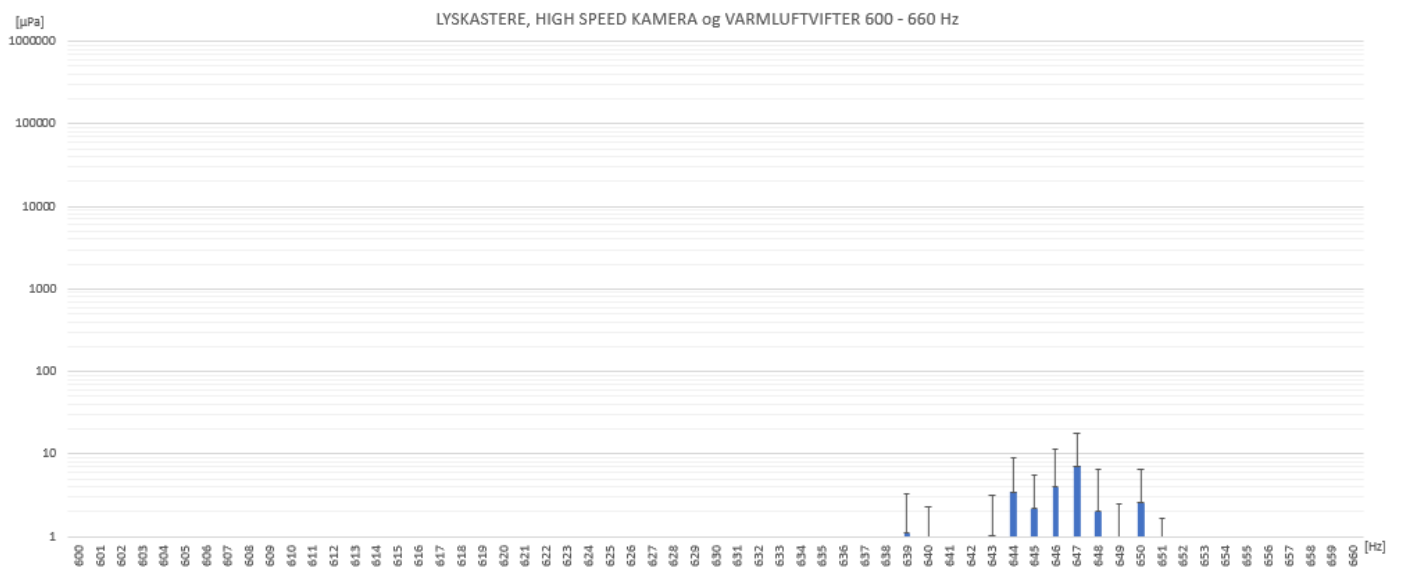
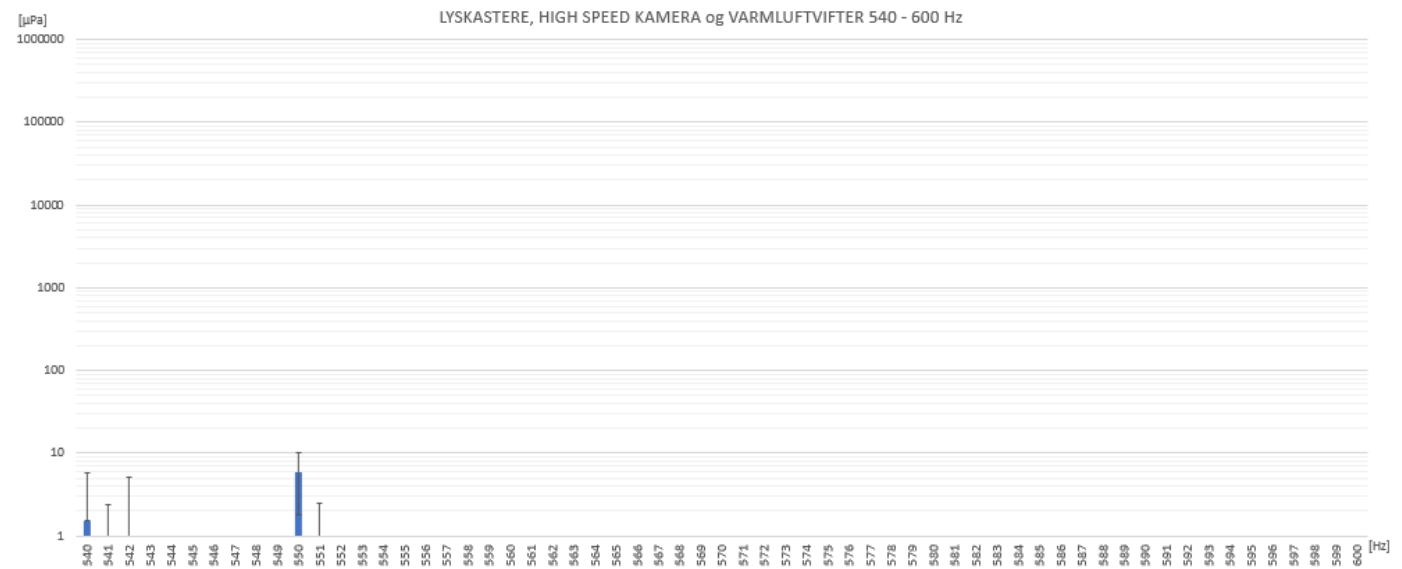
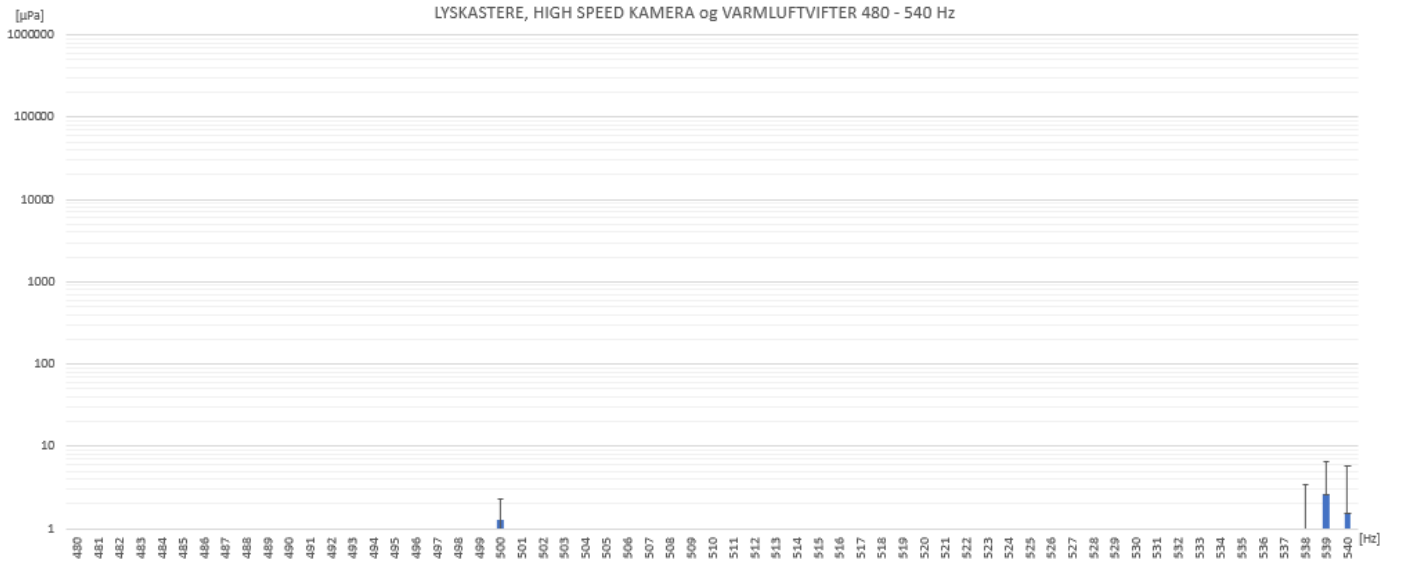


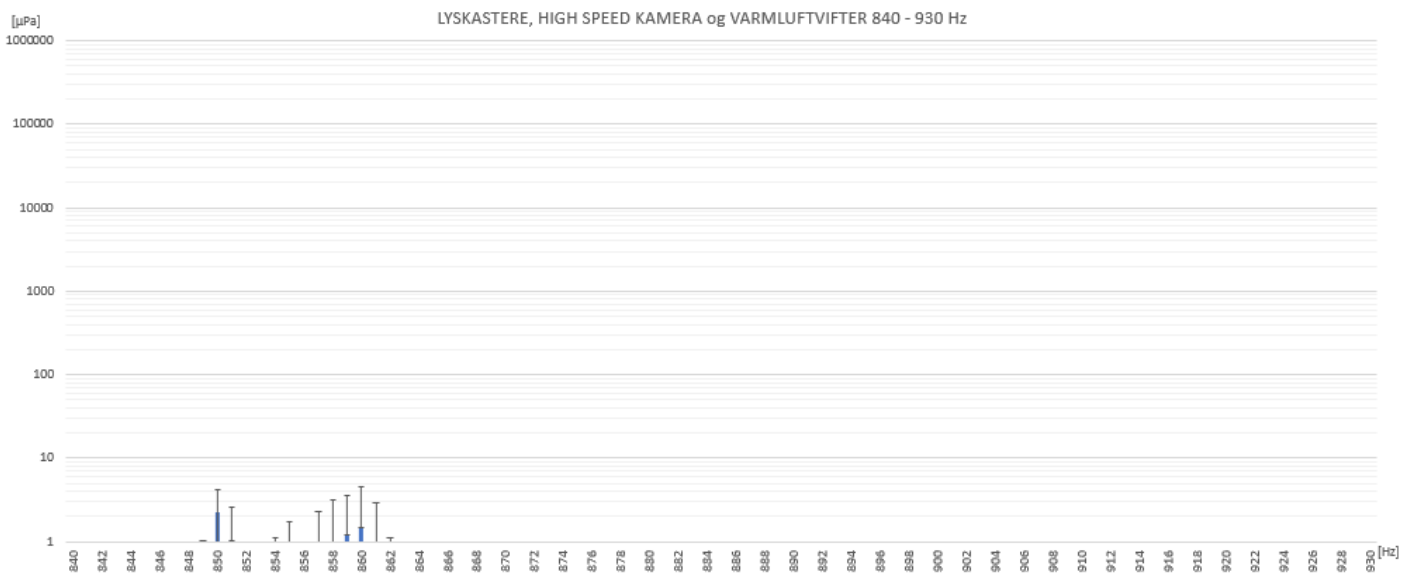
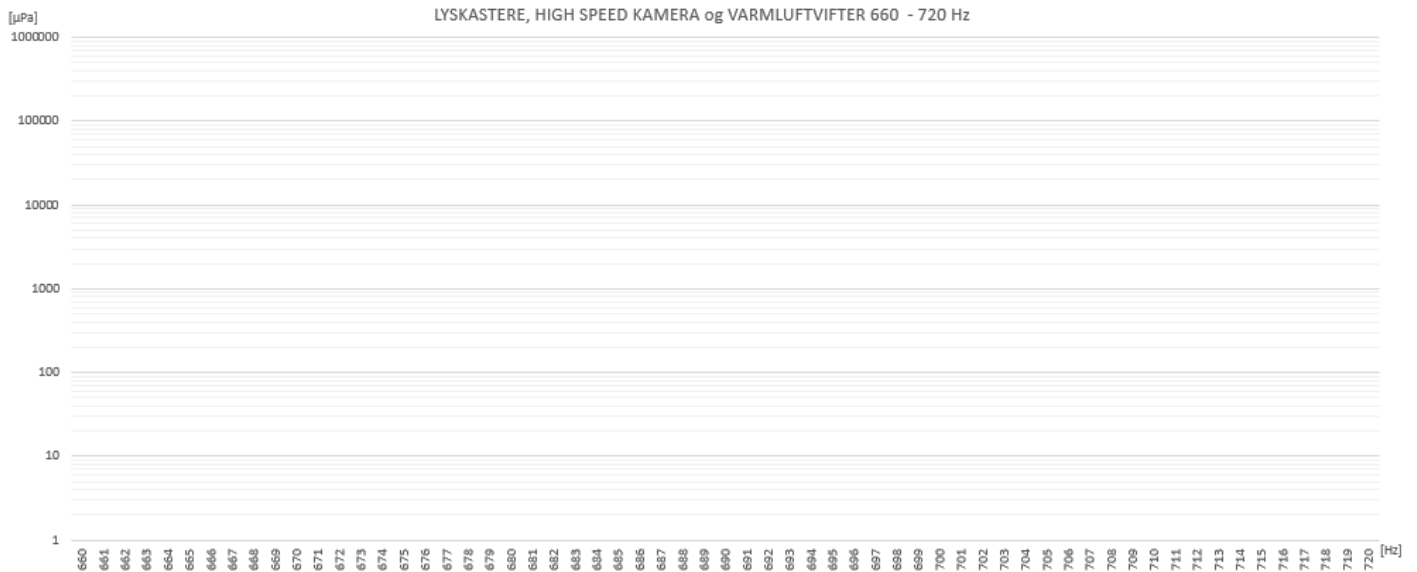
Scenario 6: Tabeller fra baseline med varmluftvifter, lys og high speed kamera





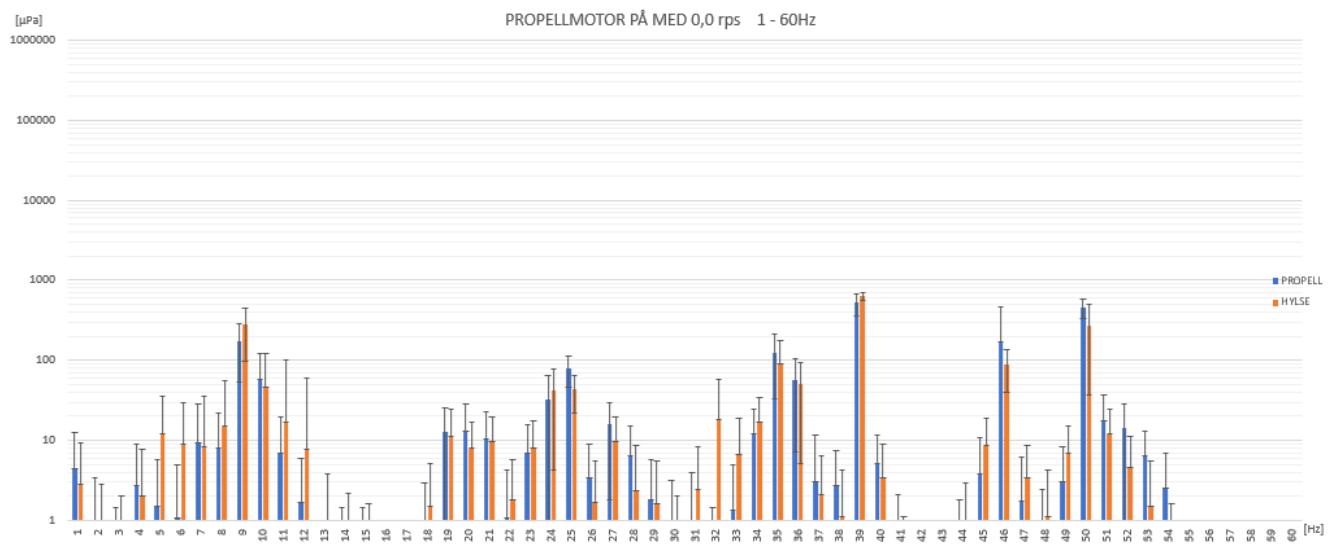
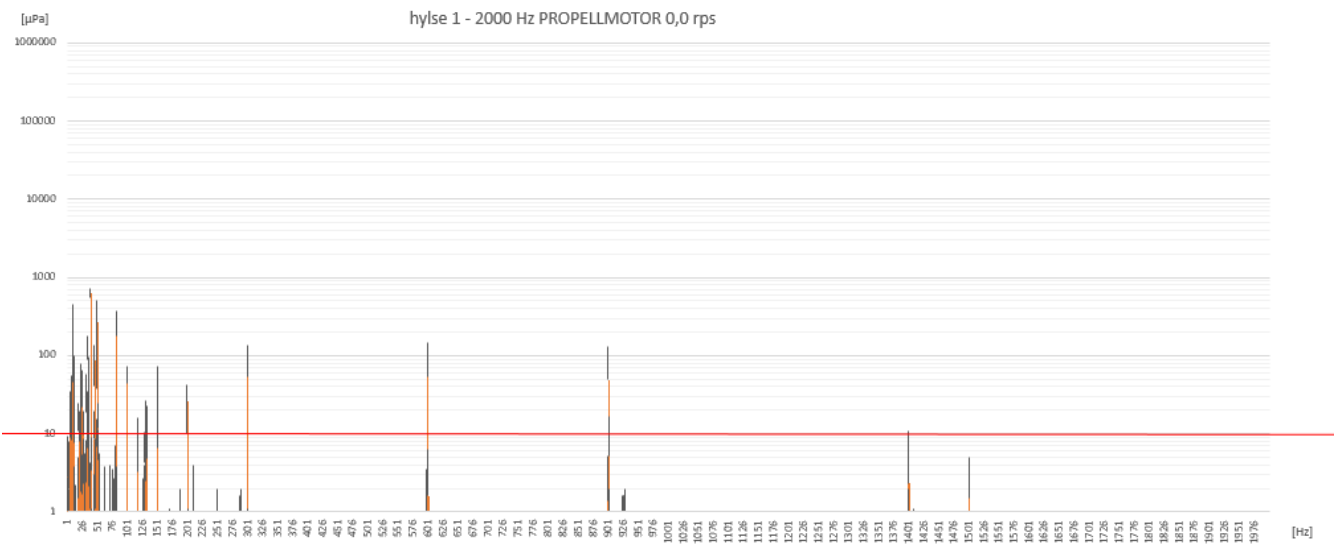
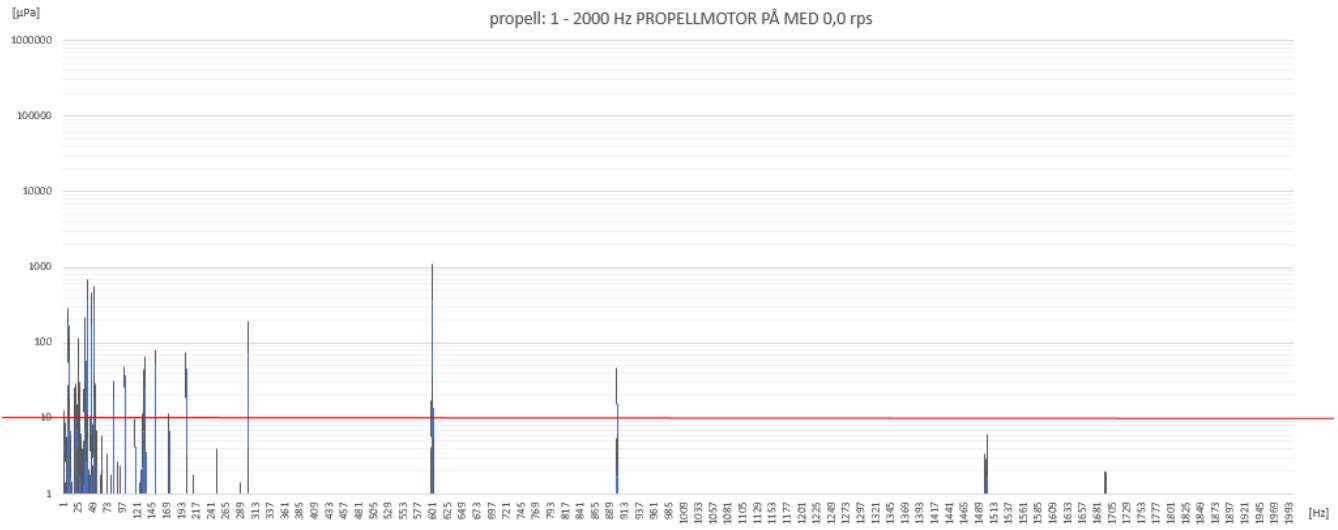


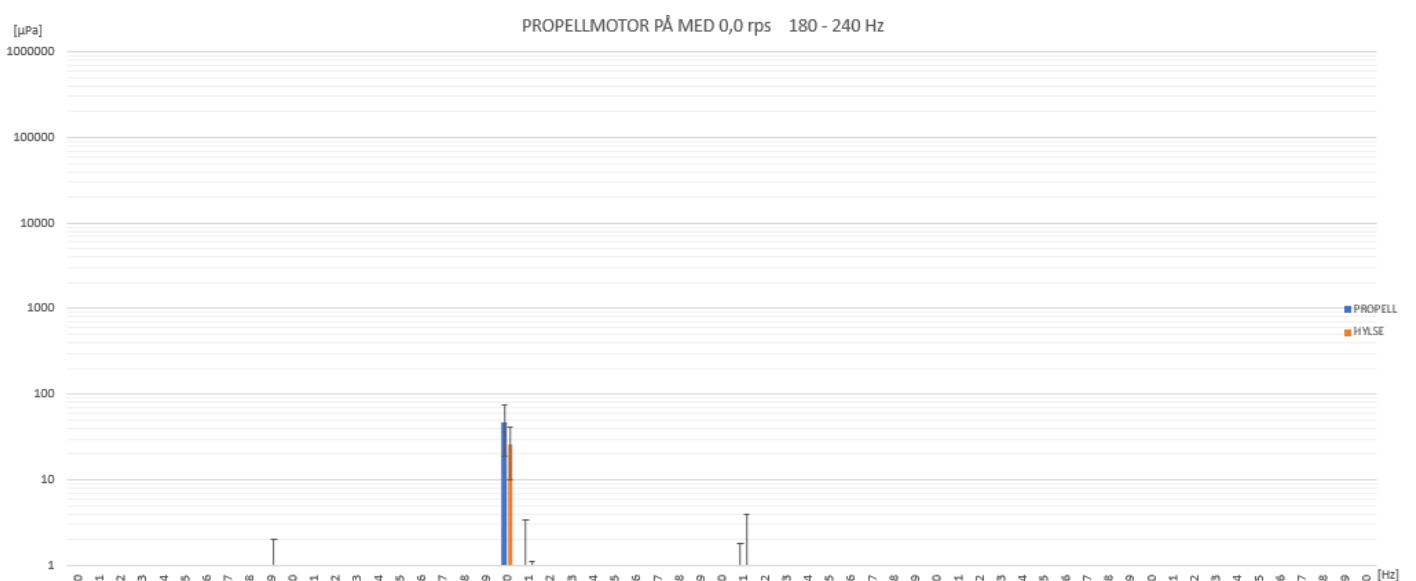
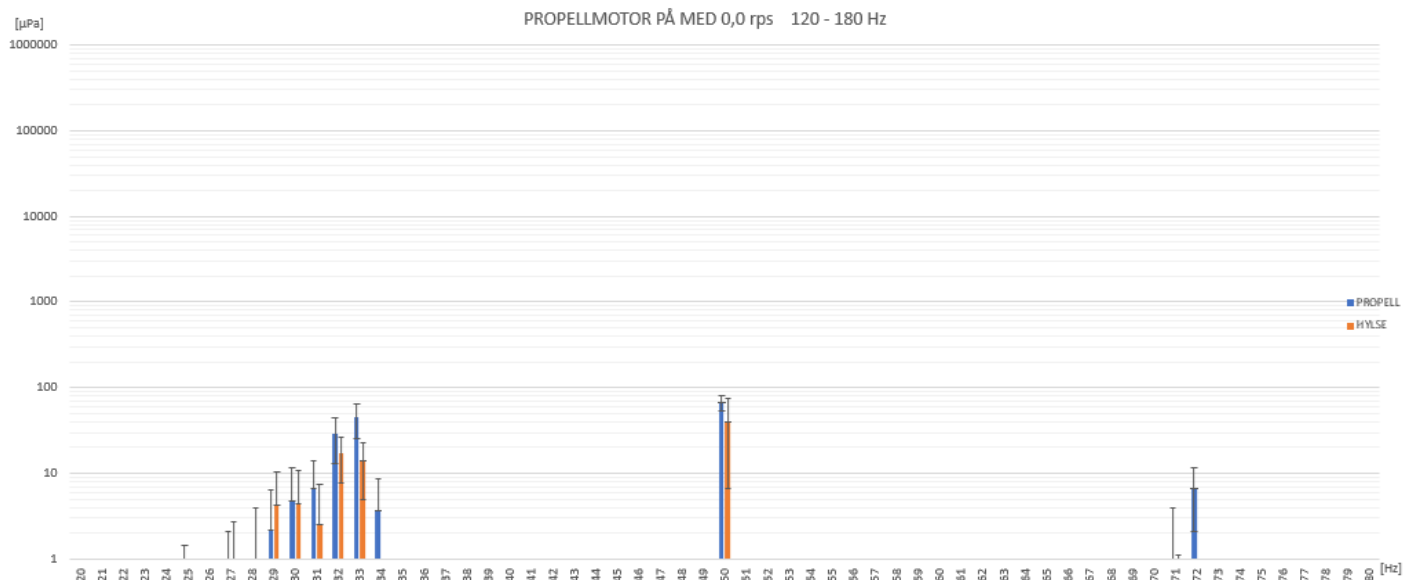
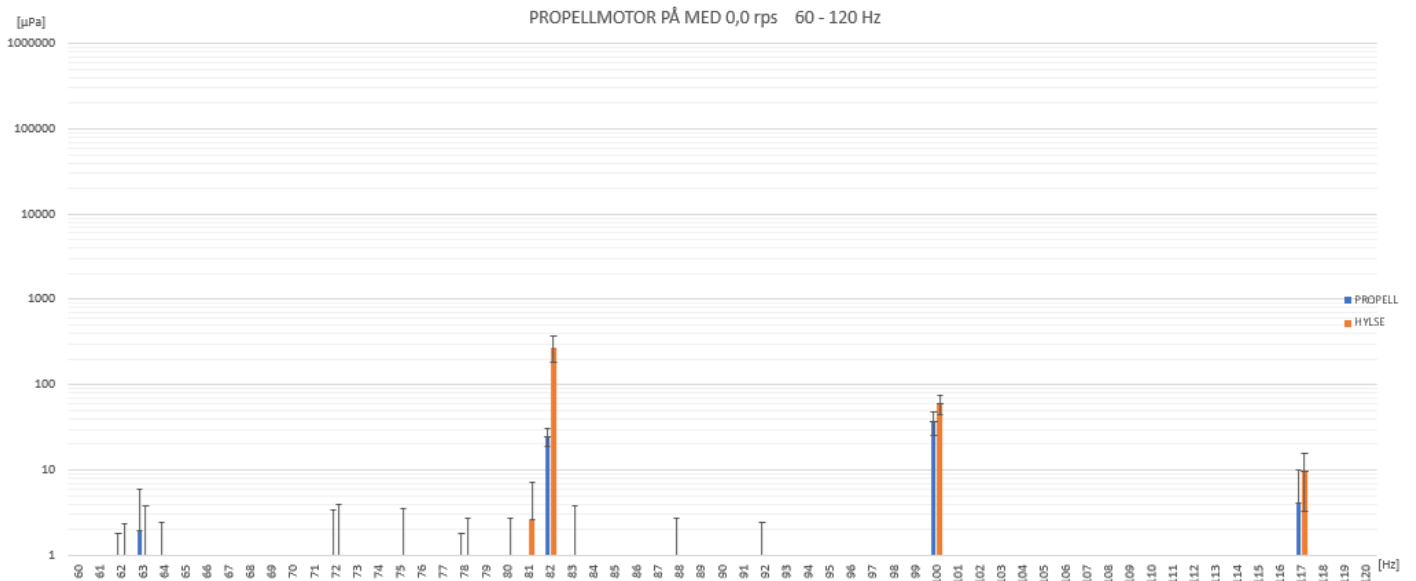


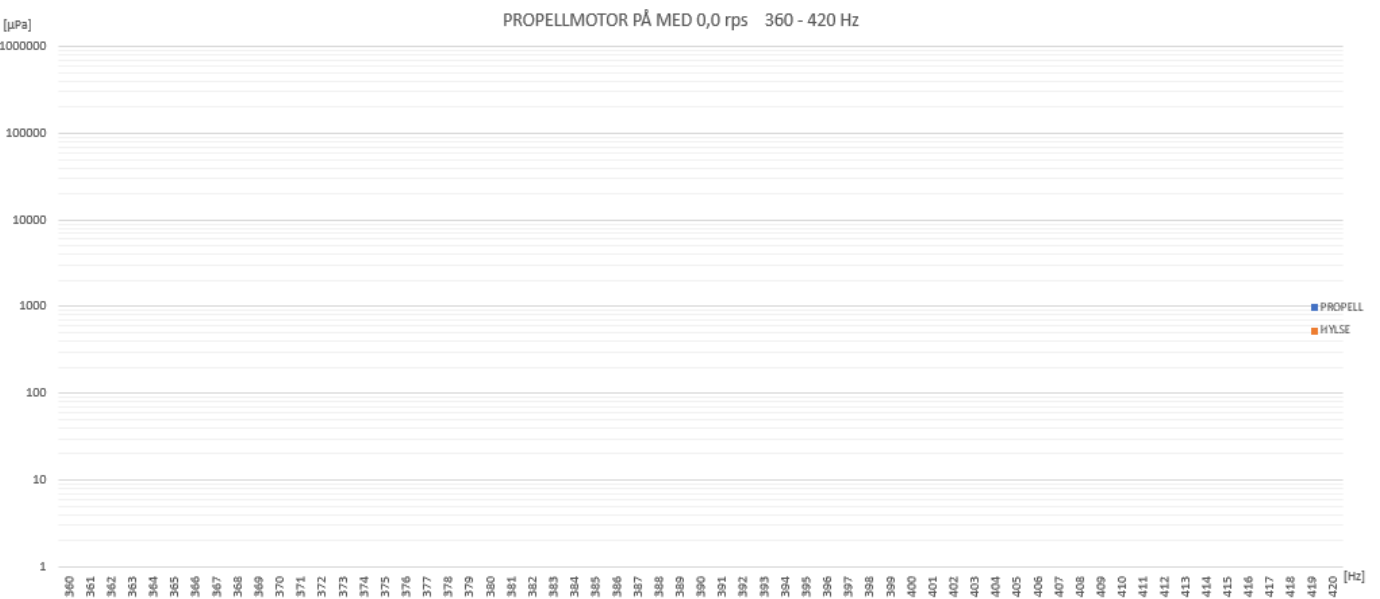
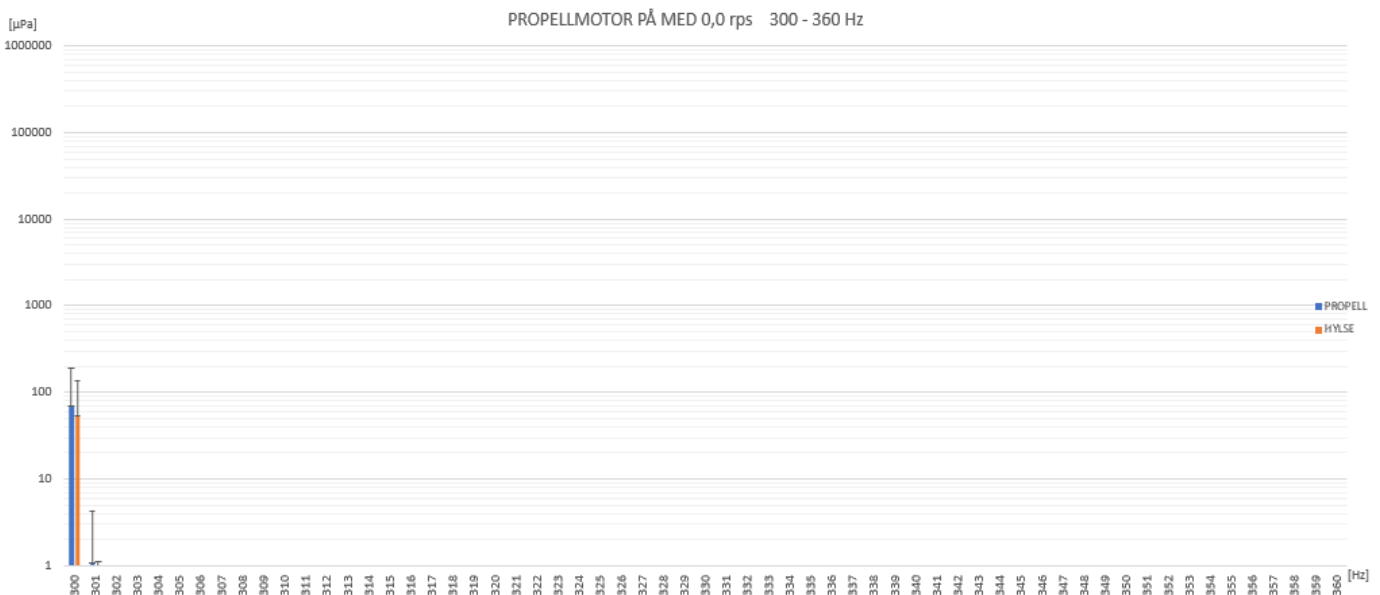
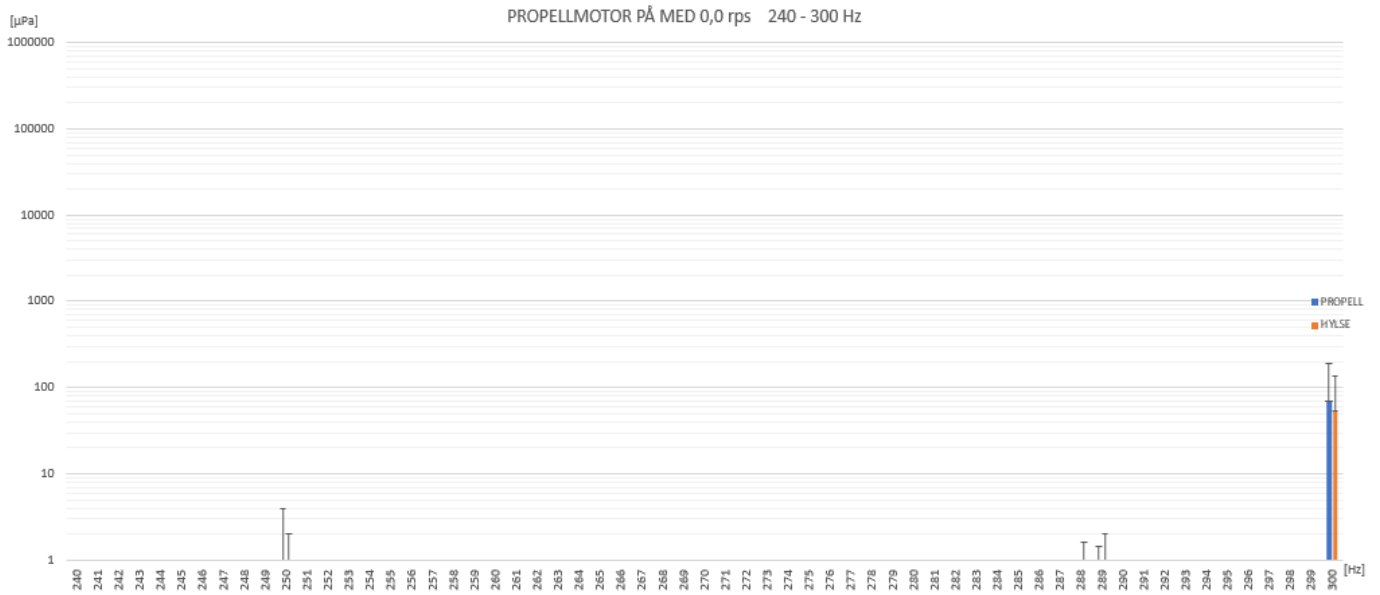


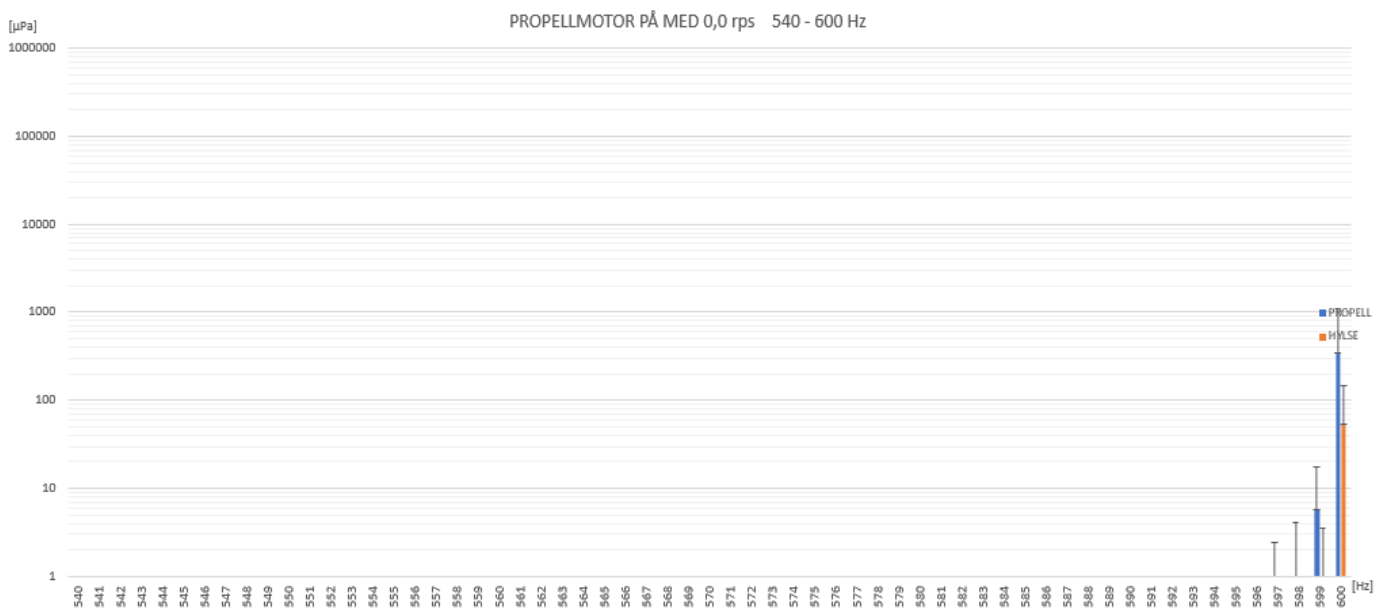
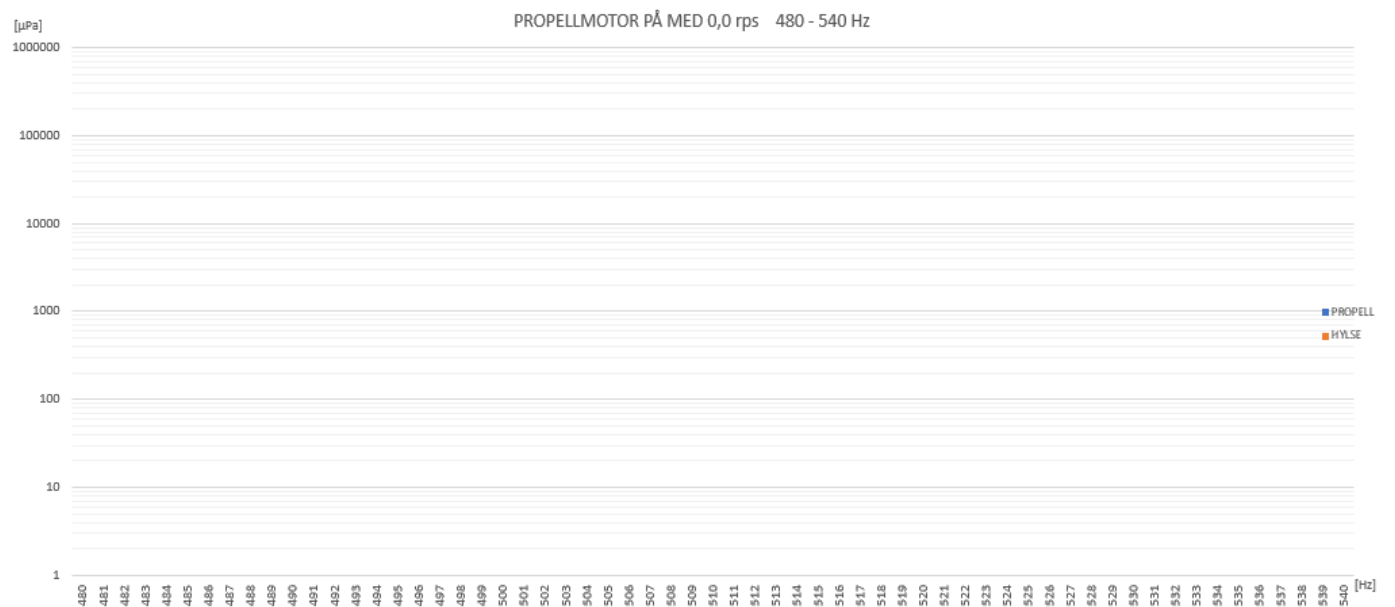
Scenario 7 og 27: Tabeller med propellmotor ved 0rps. Impeller ikke slått på. Med og uten propell

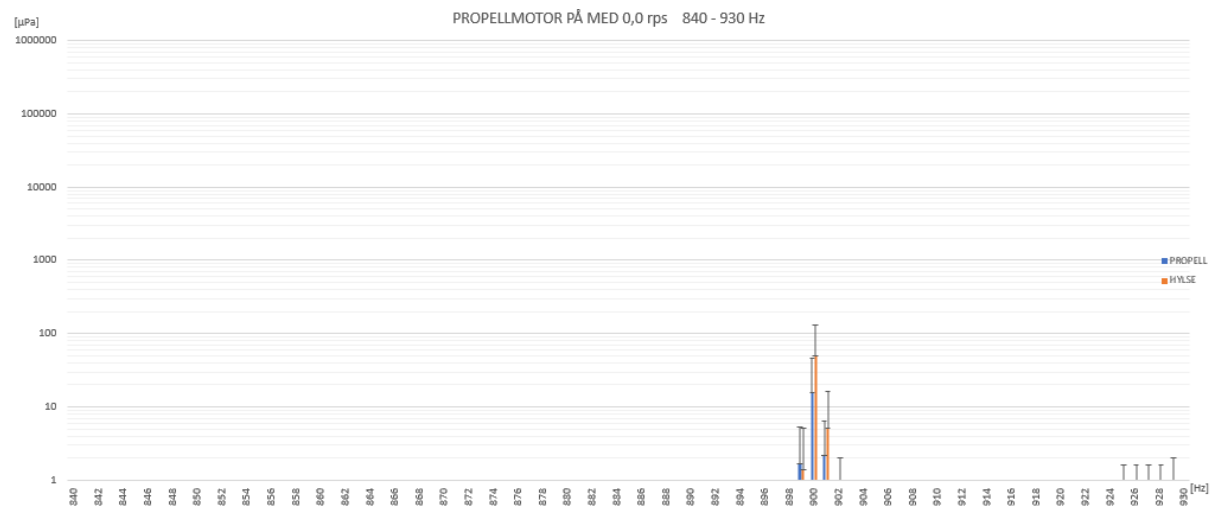
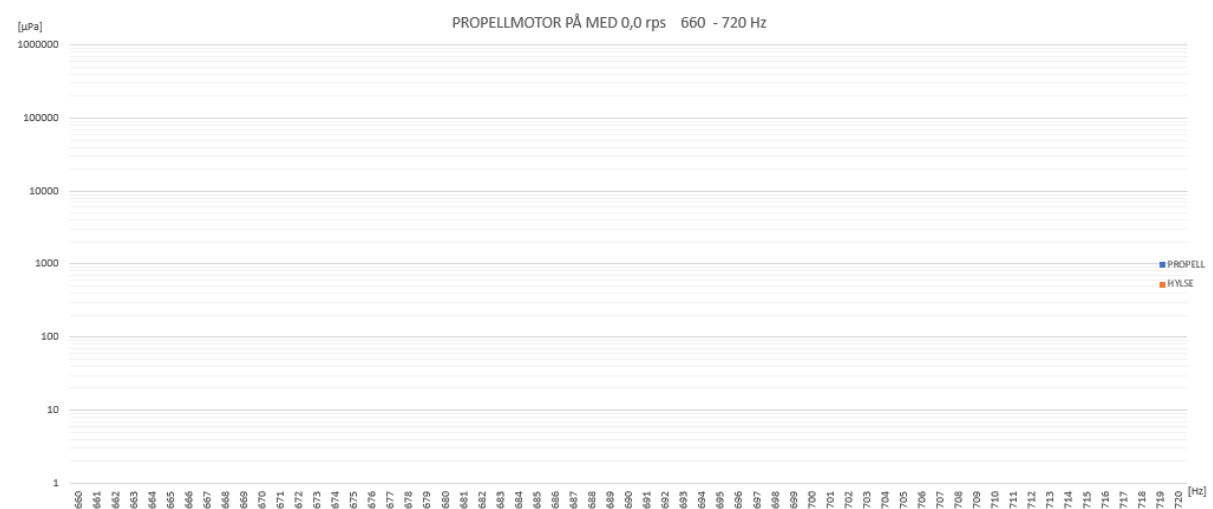
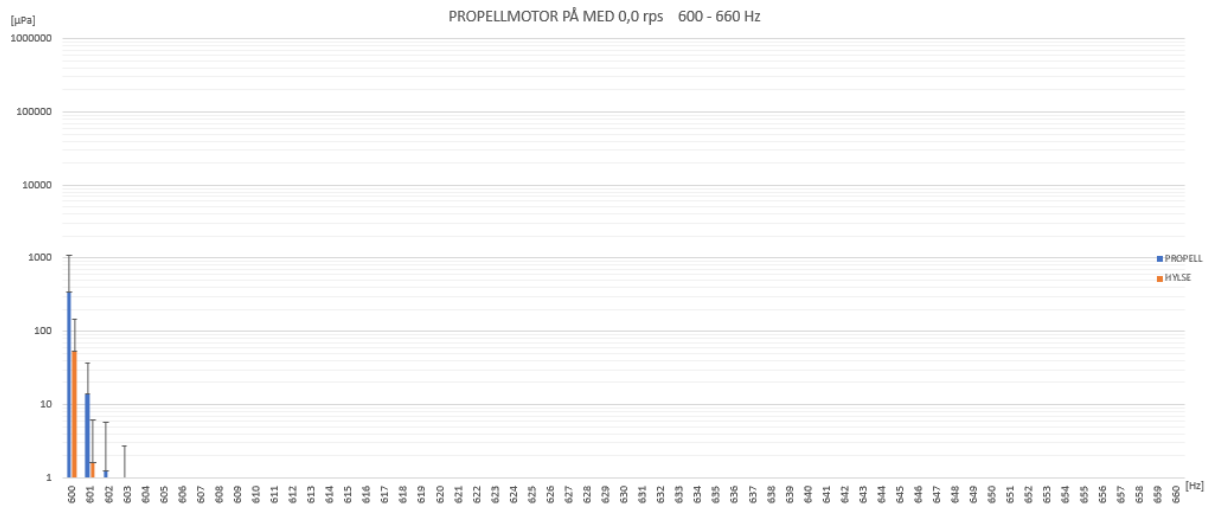
Fra nå av kommer først overordnet bilde av frekvensspekteret til propell og hylse hver for seg, før de slås sammen i samme diagram når vi tar frem mindre frekvensområder.



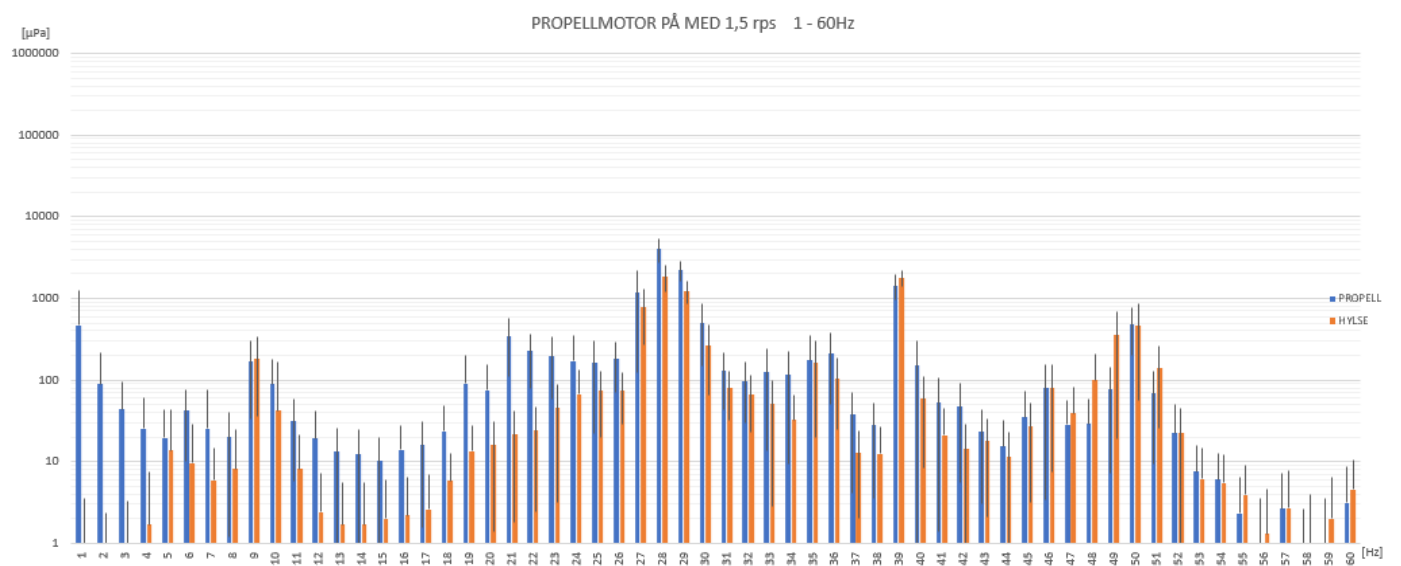
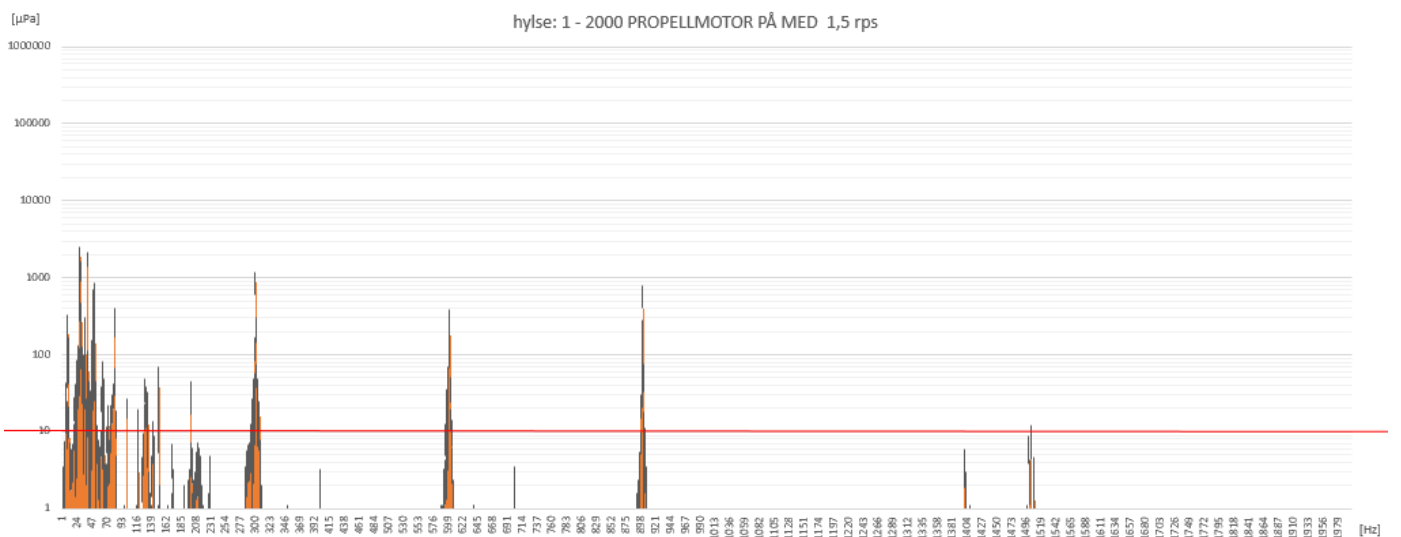
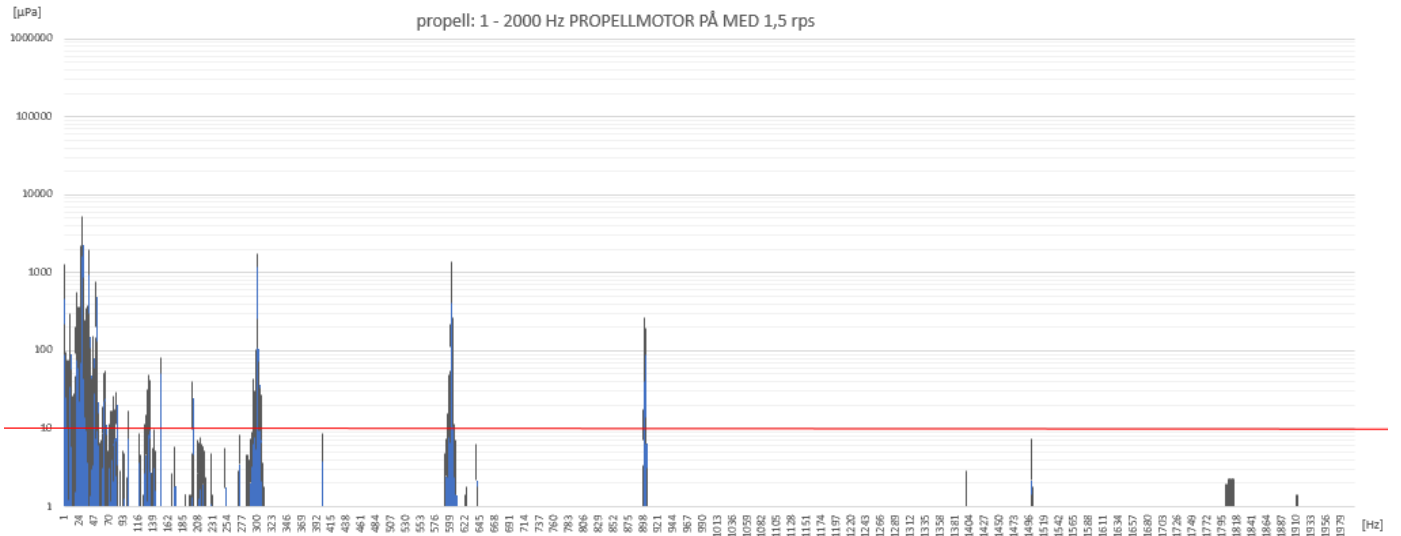


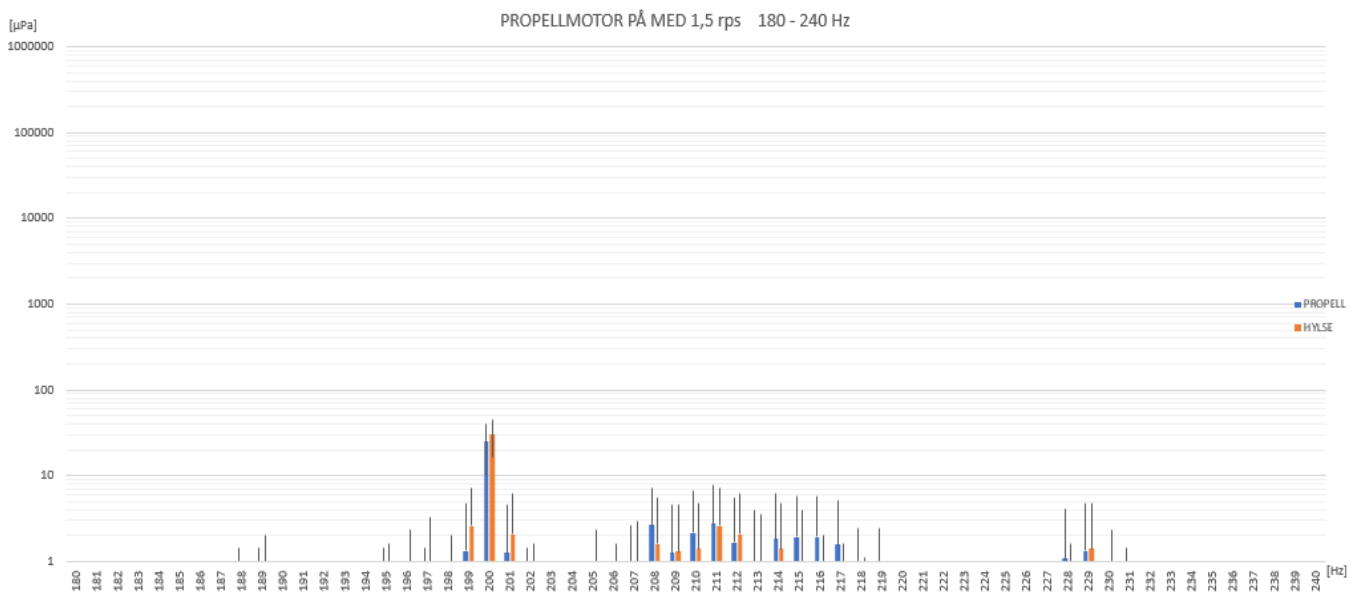
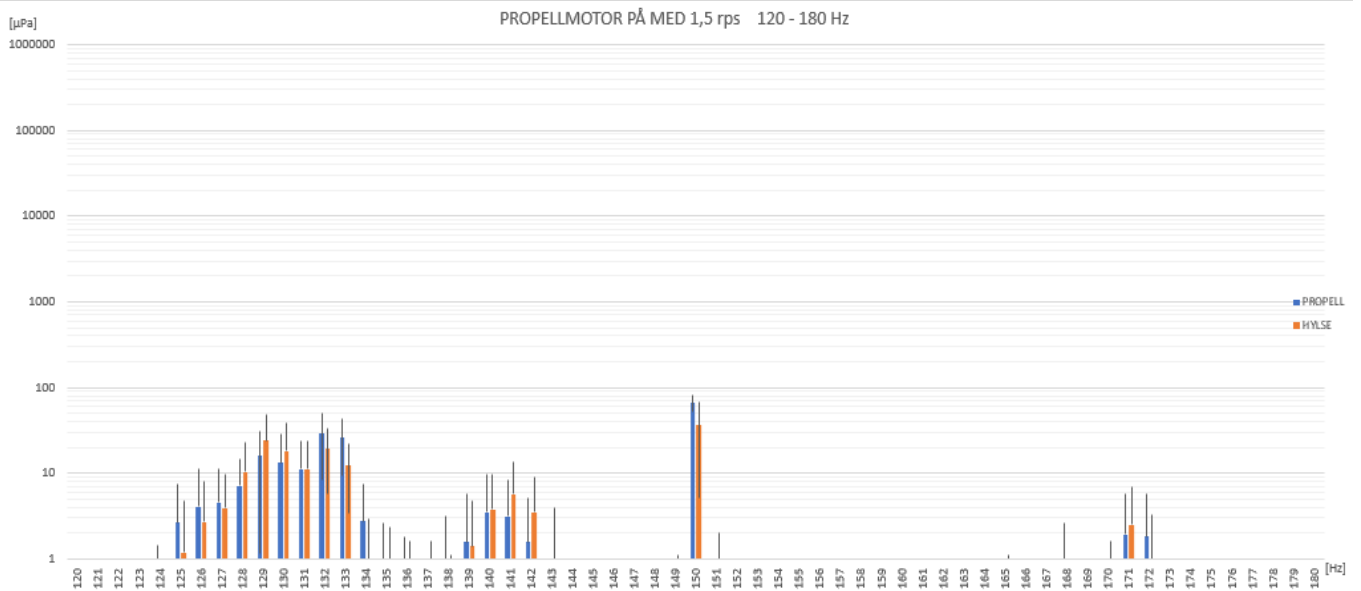
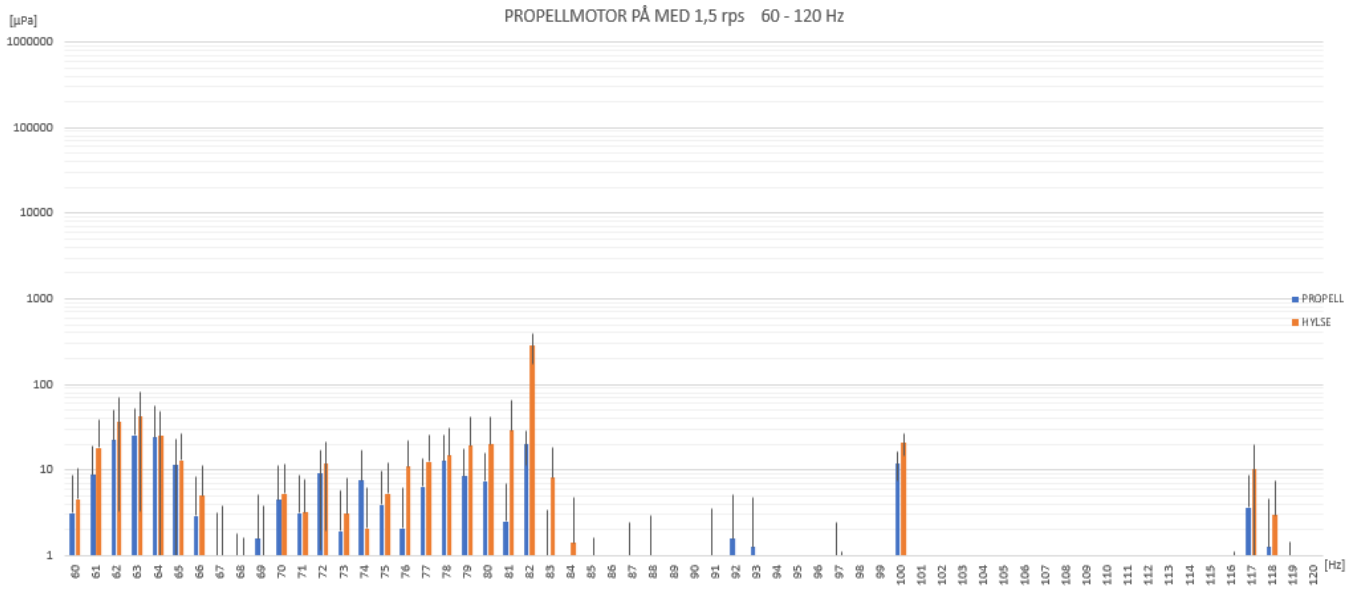


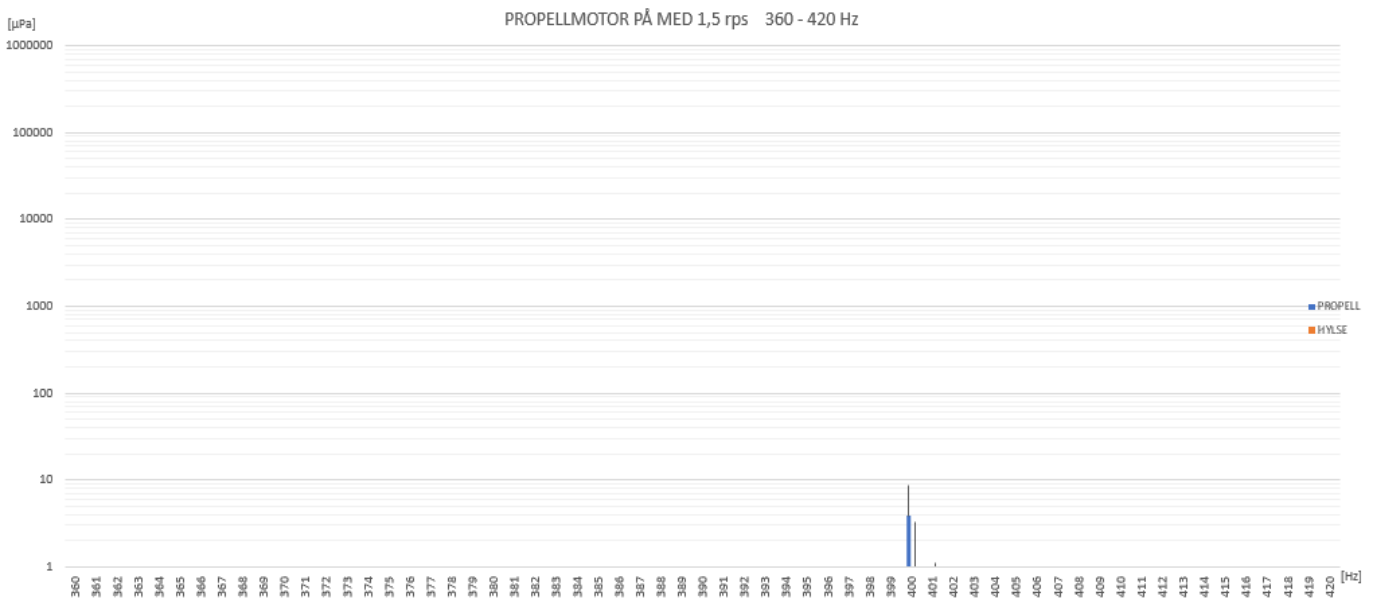
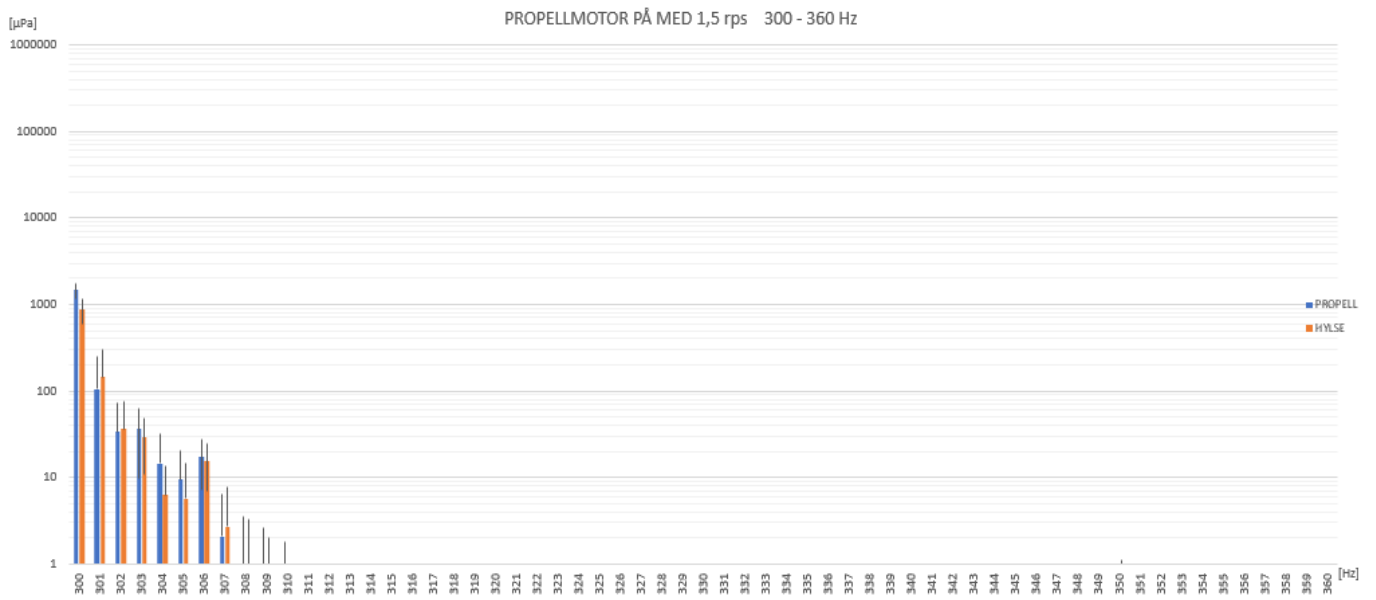
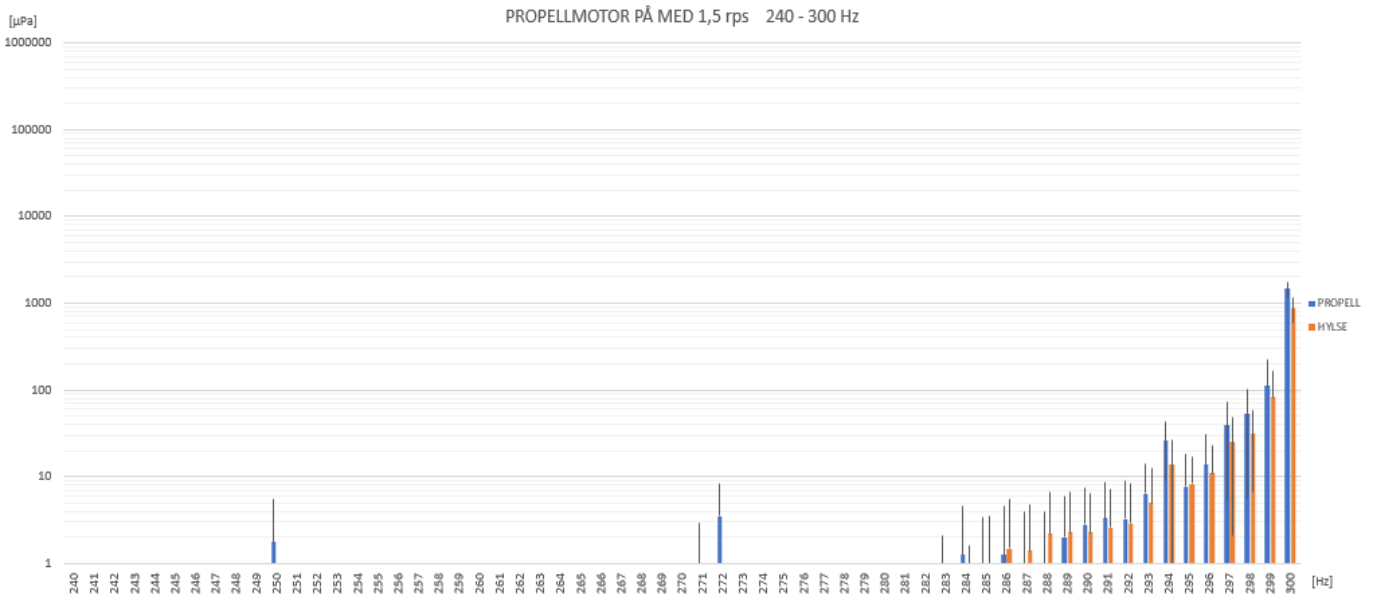


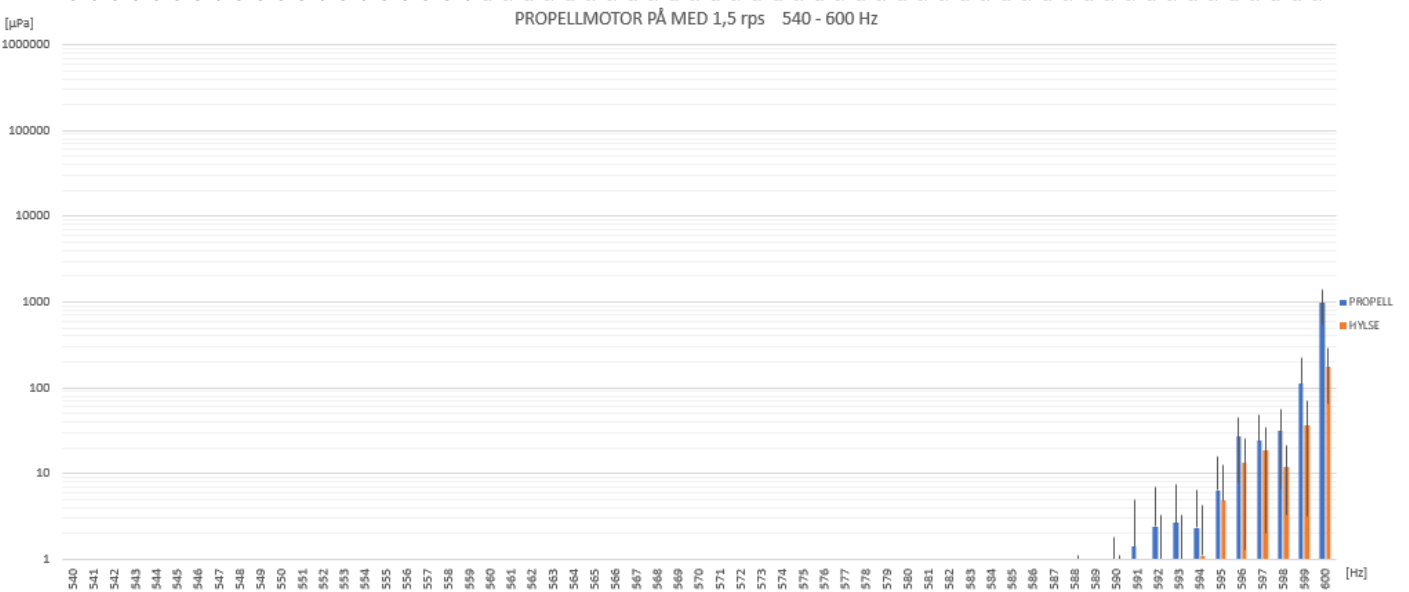


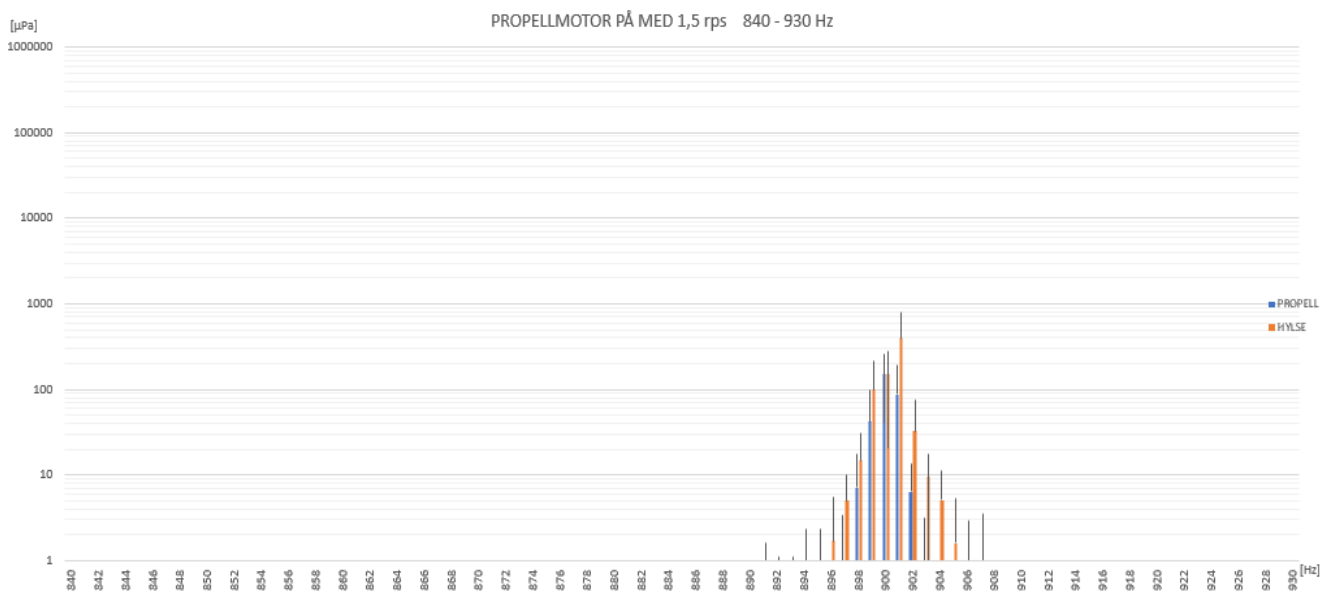
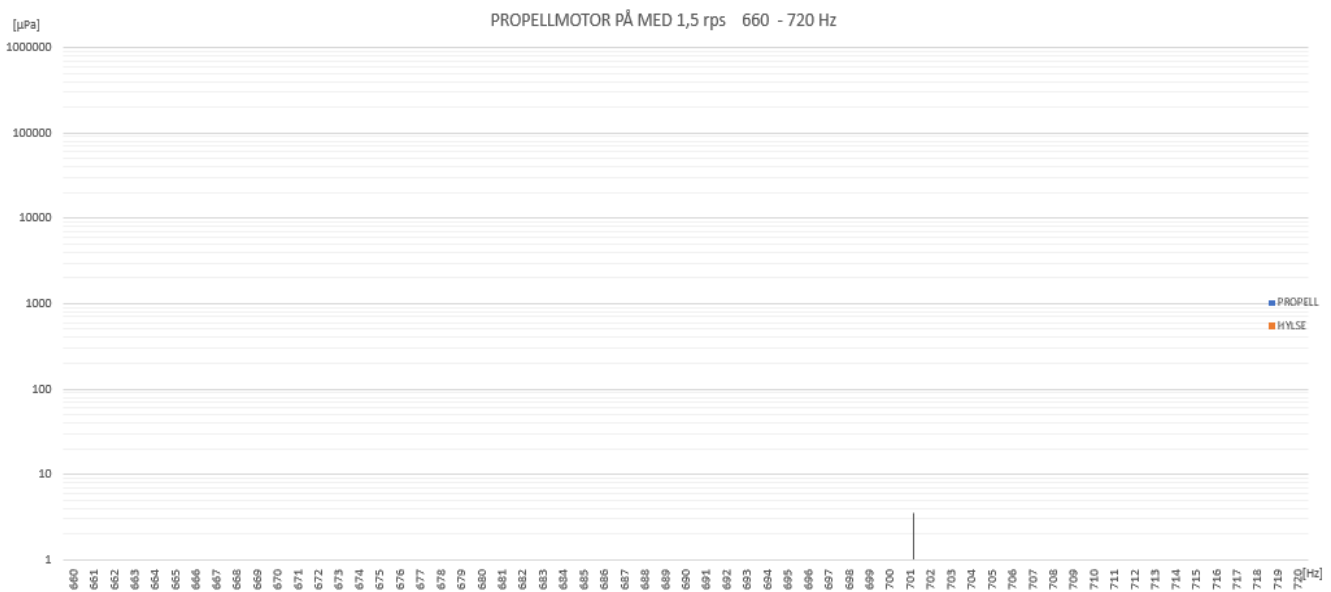
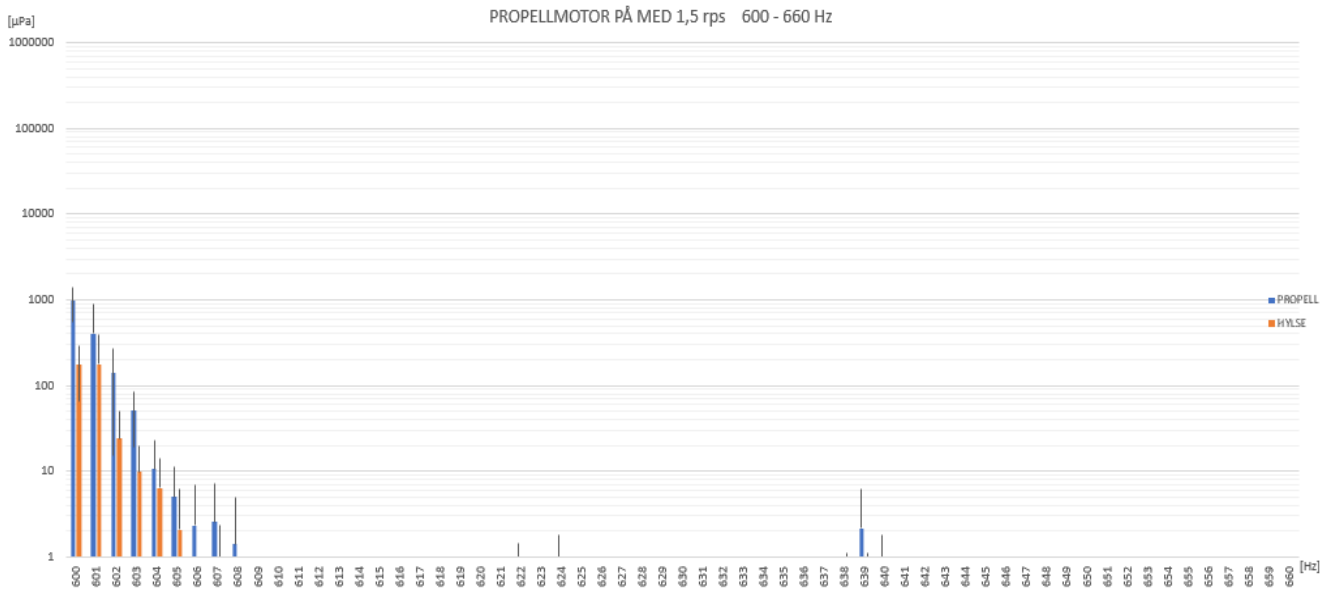
Scenario 8 og 28: Tabeller med propellmotor satt på 1,5rps. Impeller ikke slått på. Med og uten propell





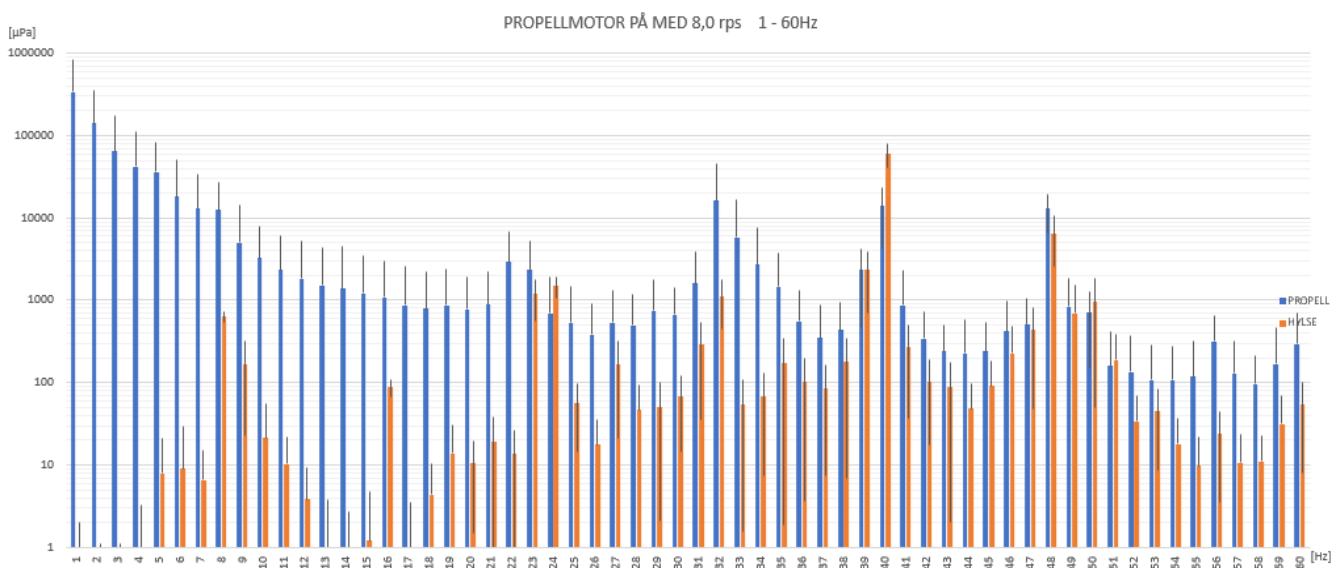
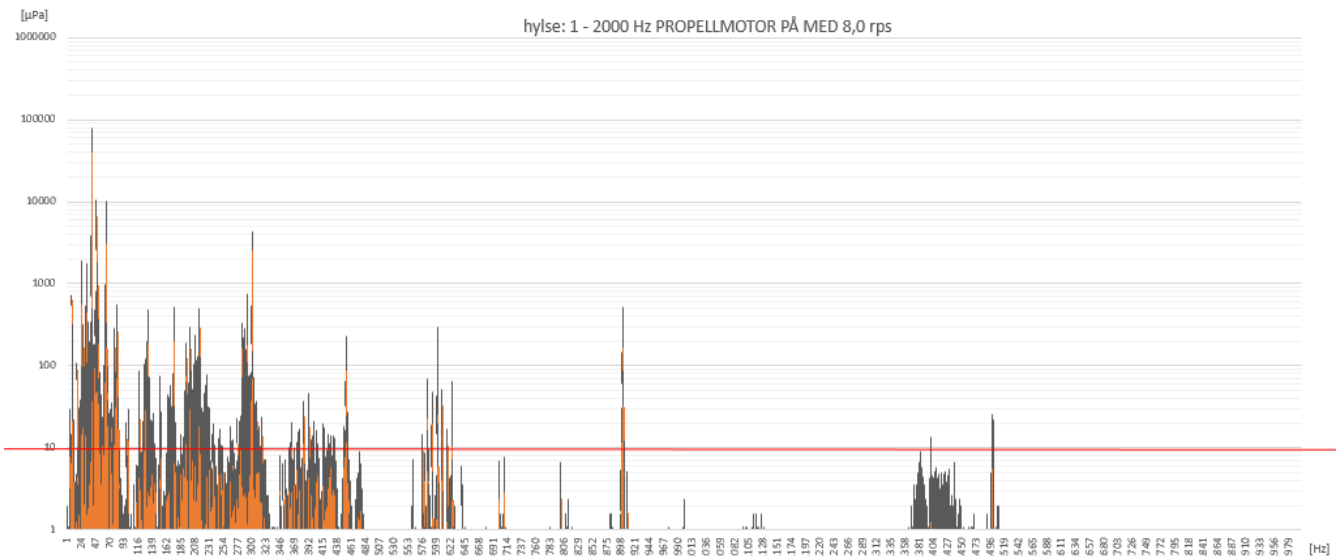
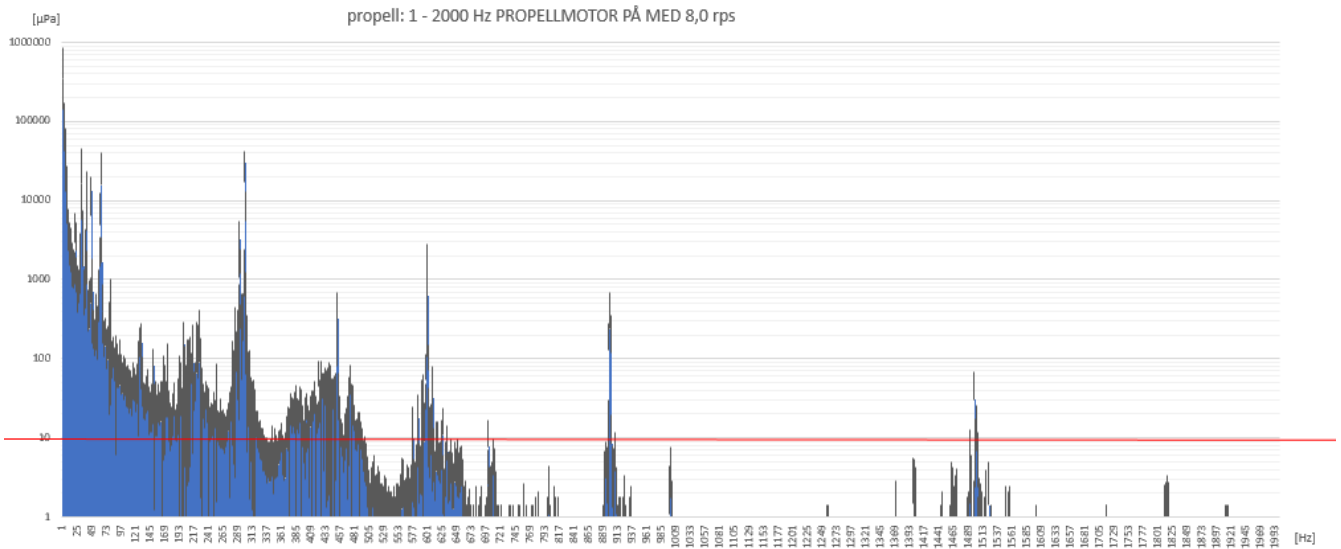


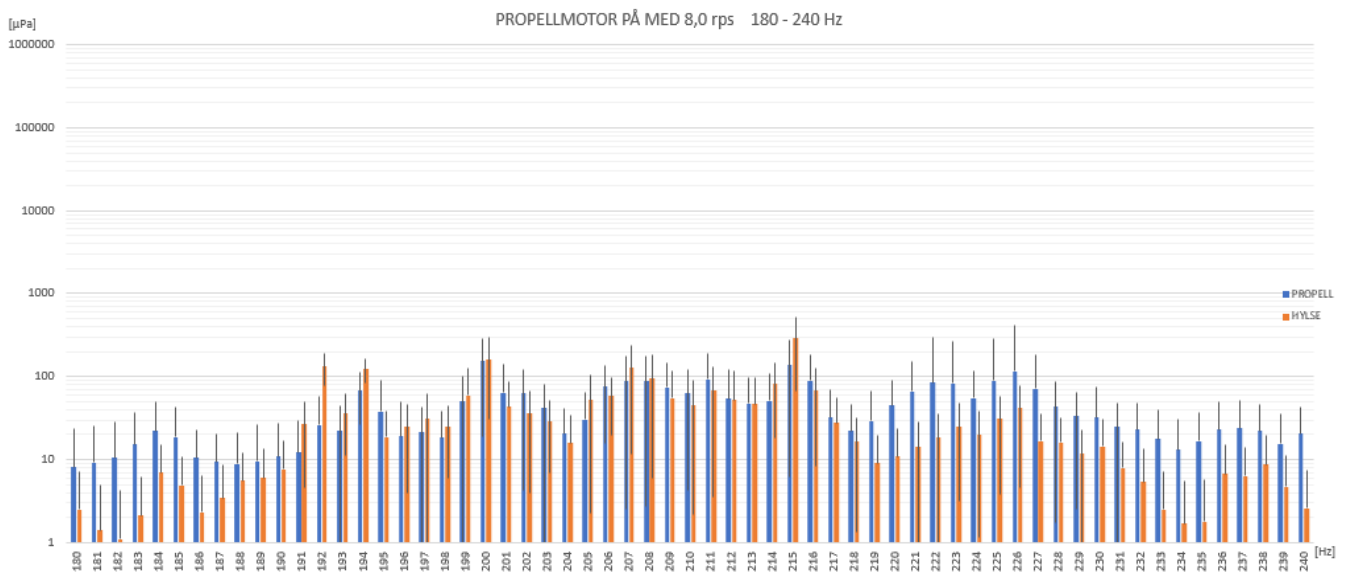
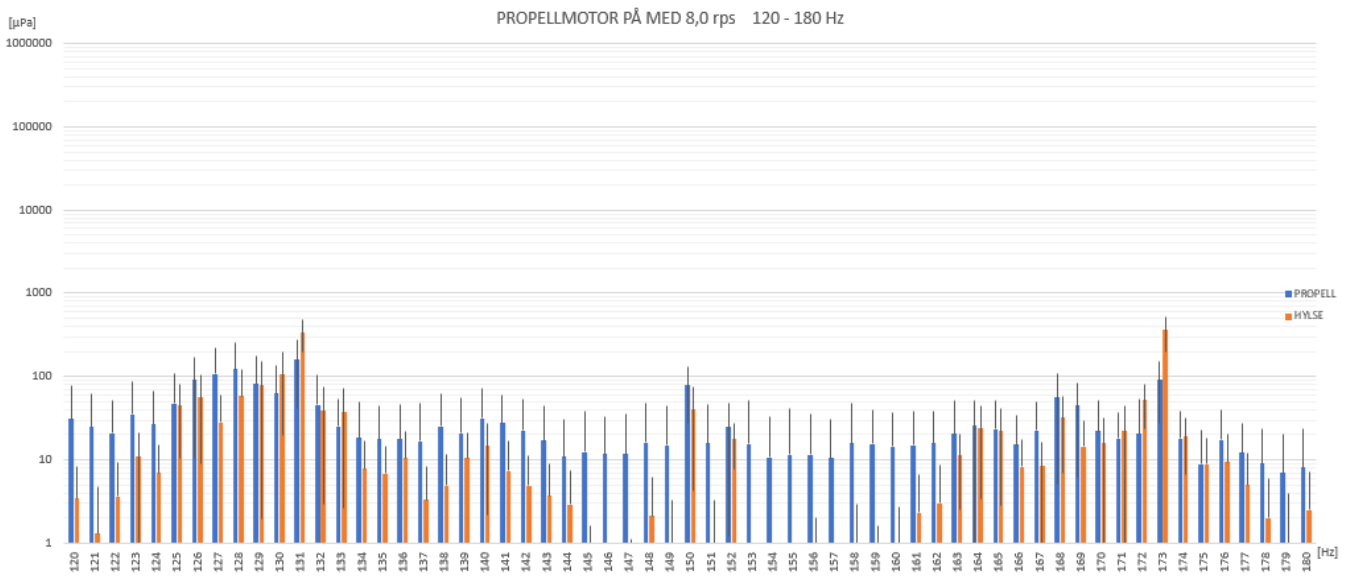
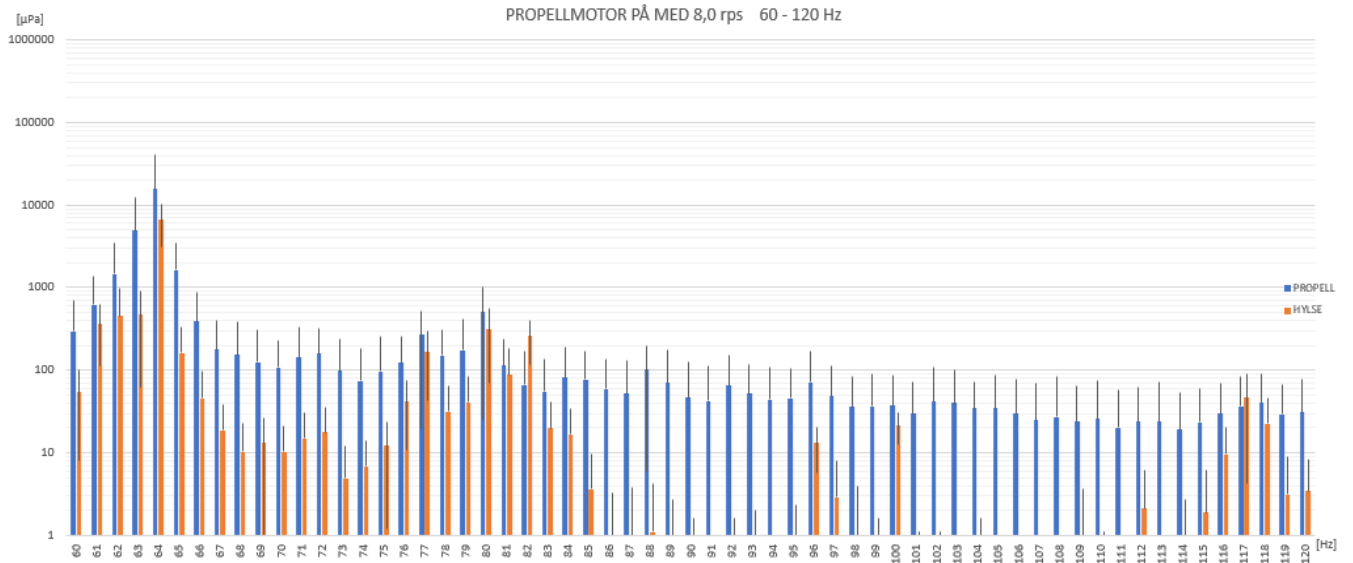


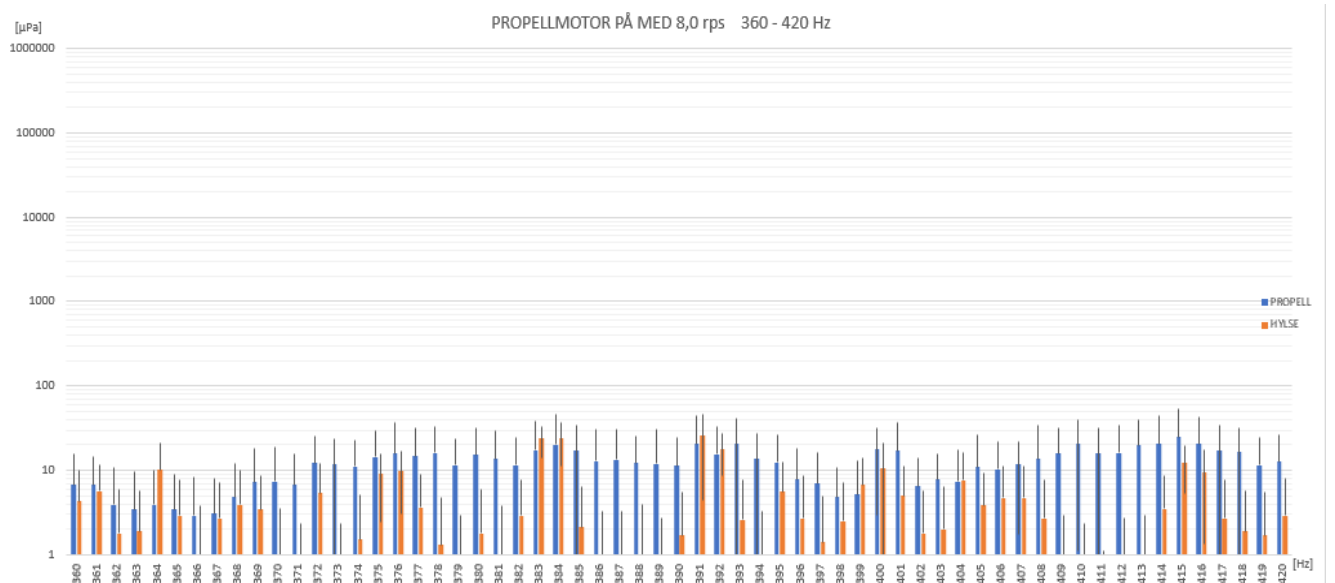
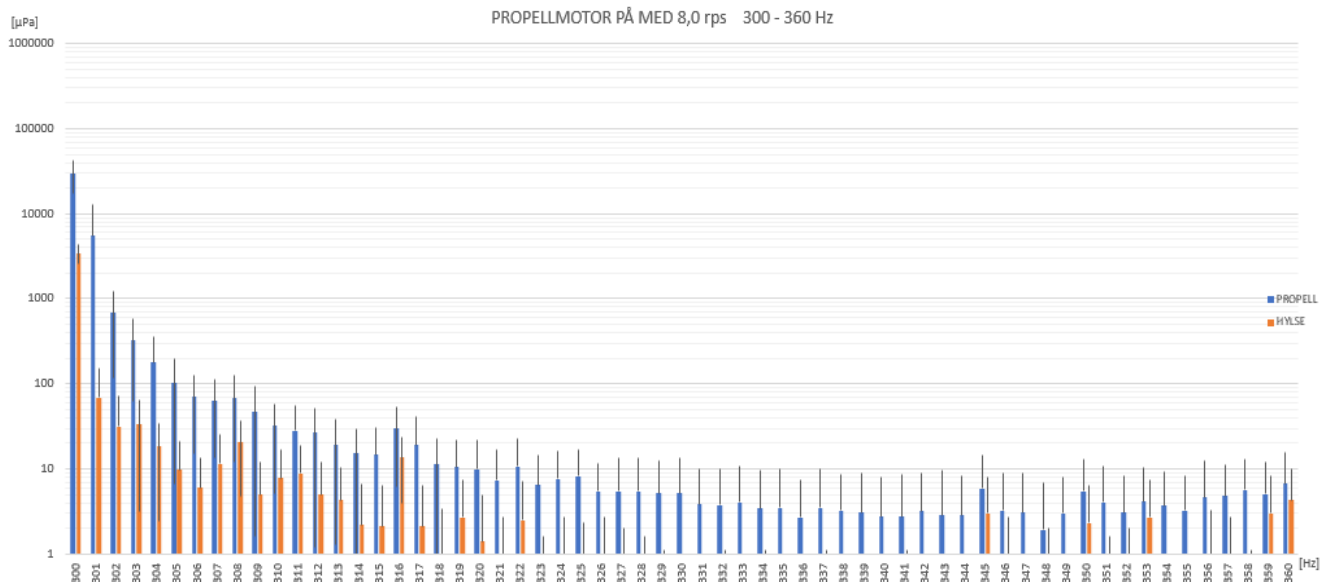
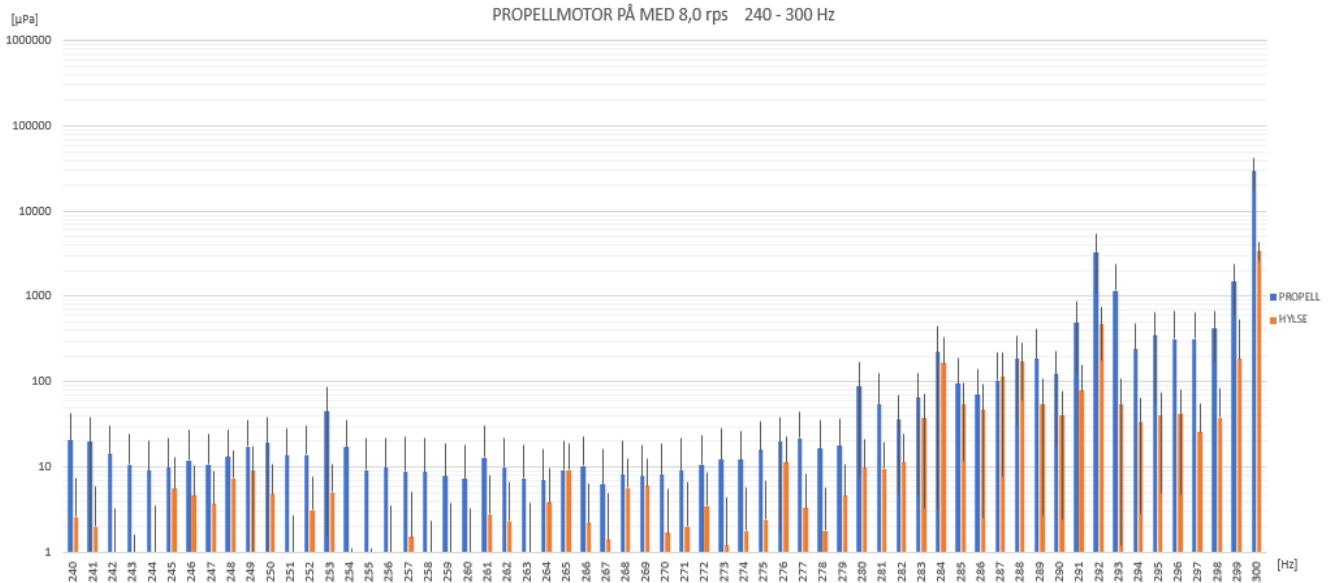


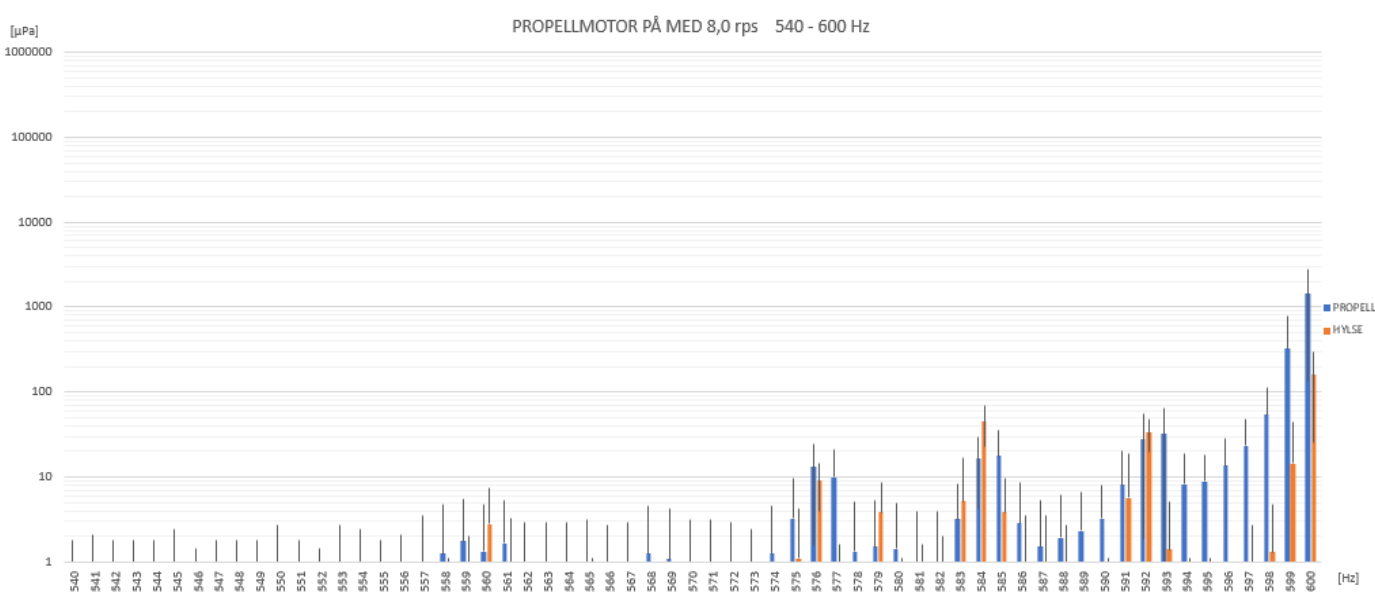
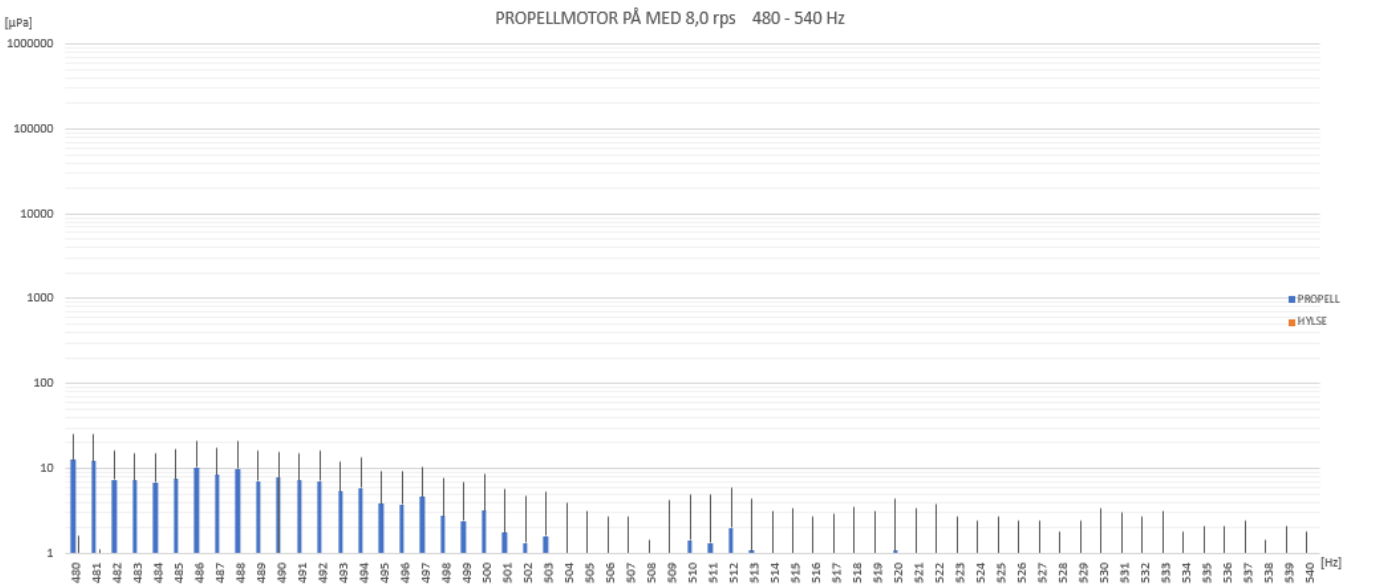
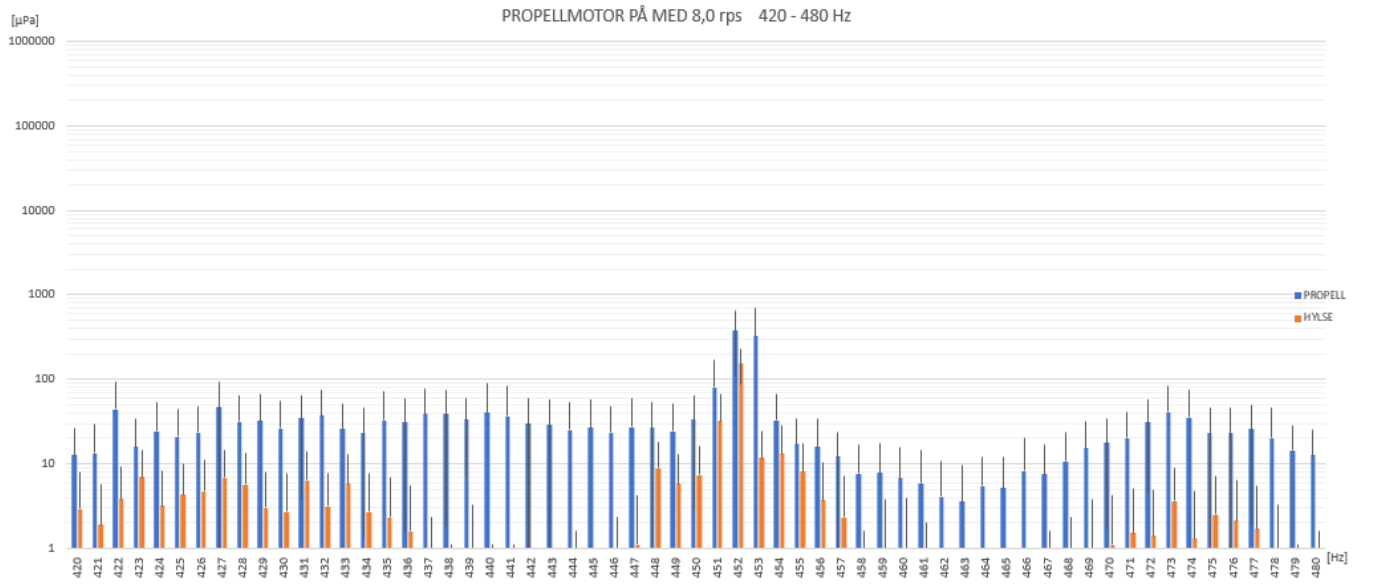
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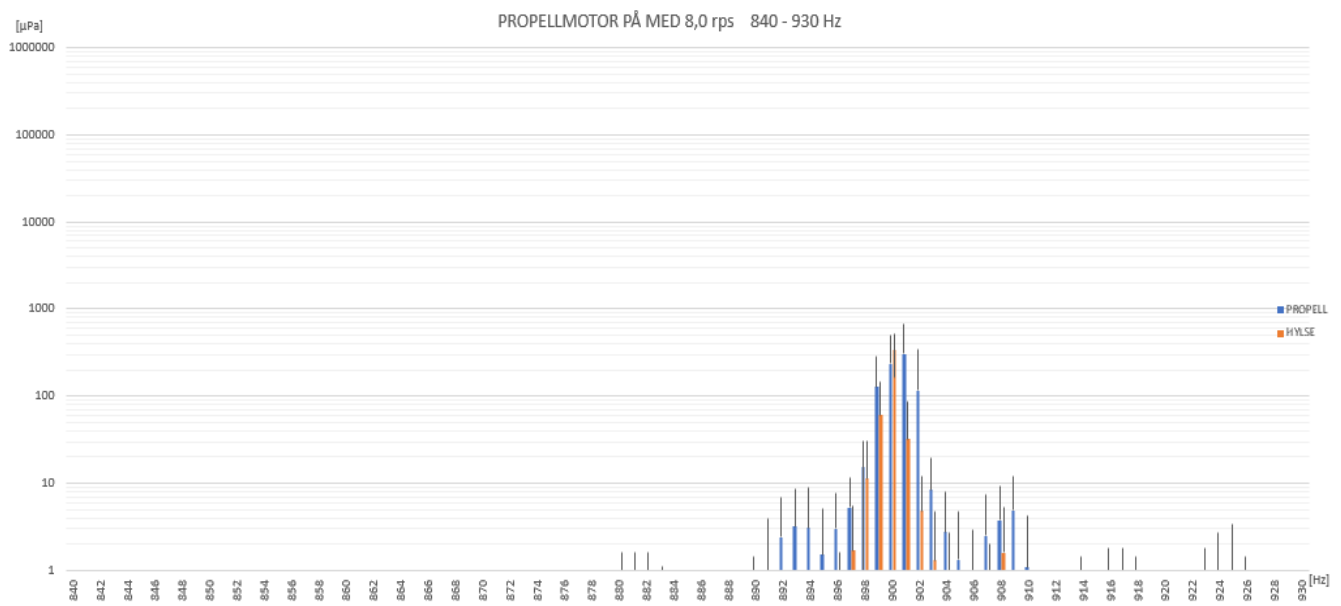
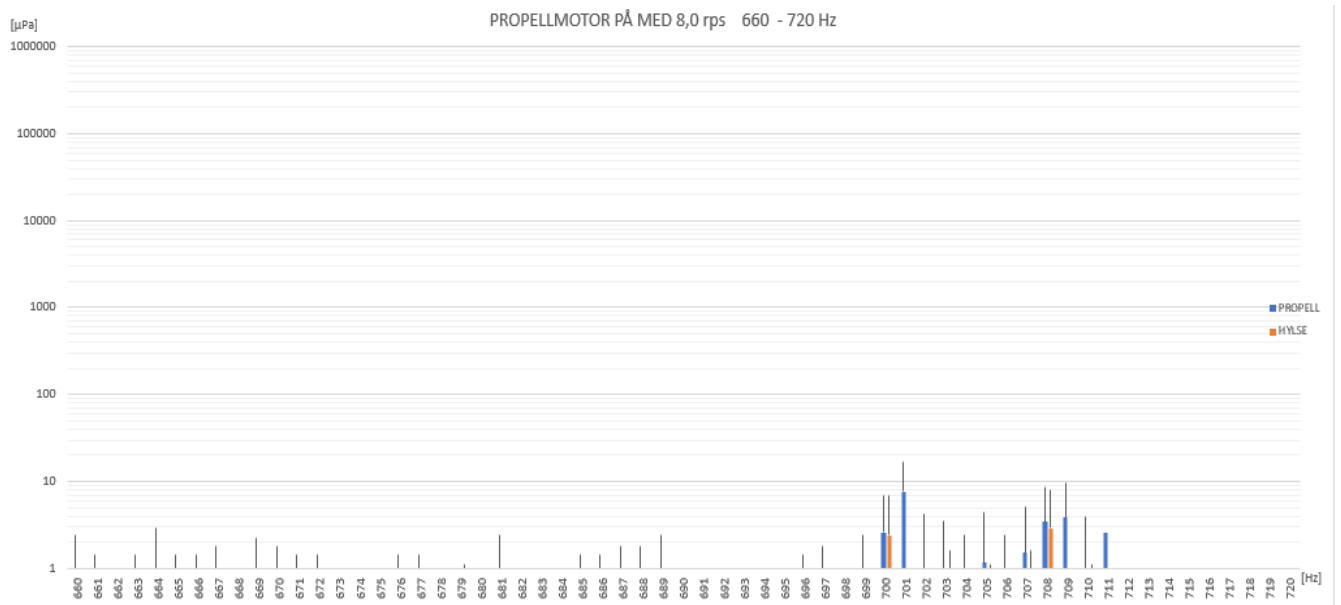
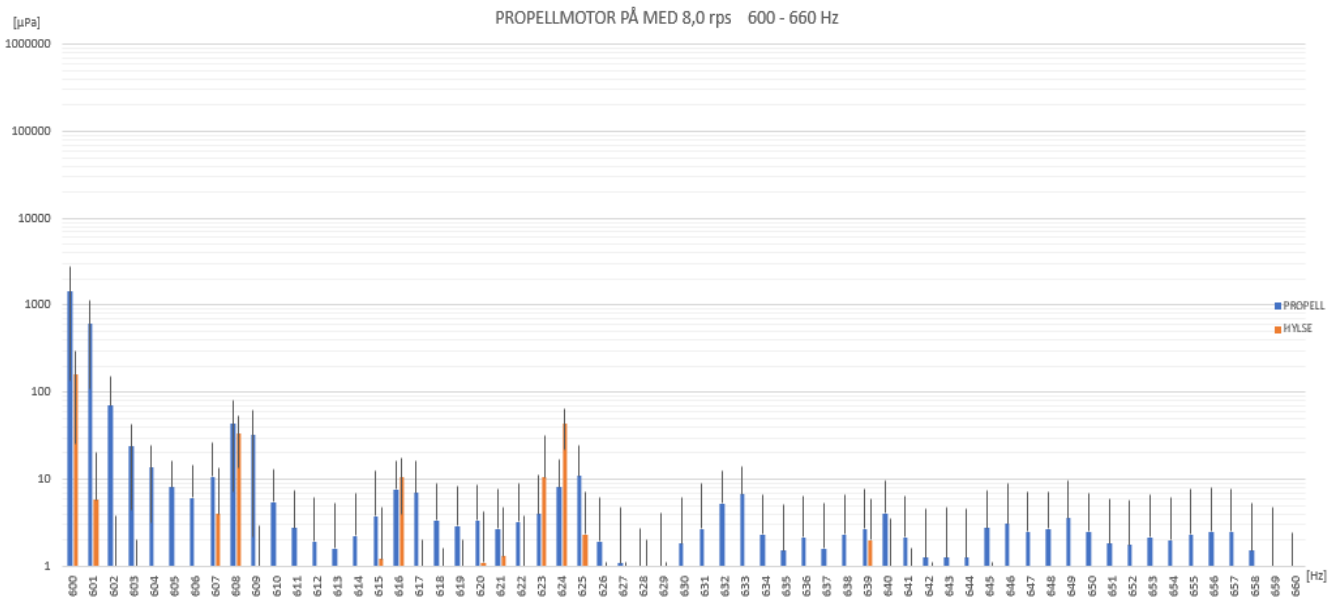
Scenario 9 og 29: Tabeller med propellmotor satt på 8rps. Impeller ikke slått på. Med og uten propell



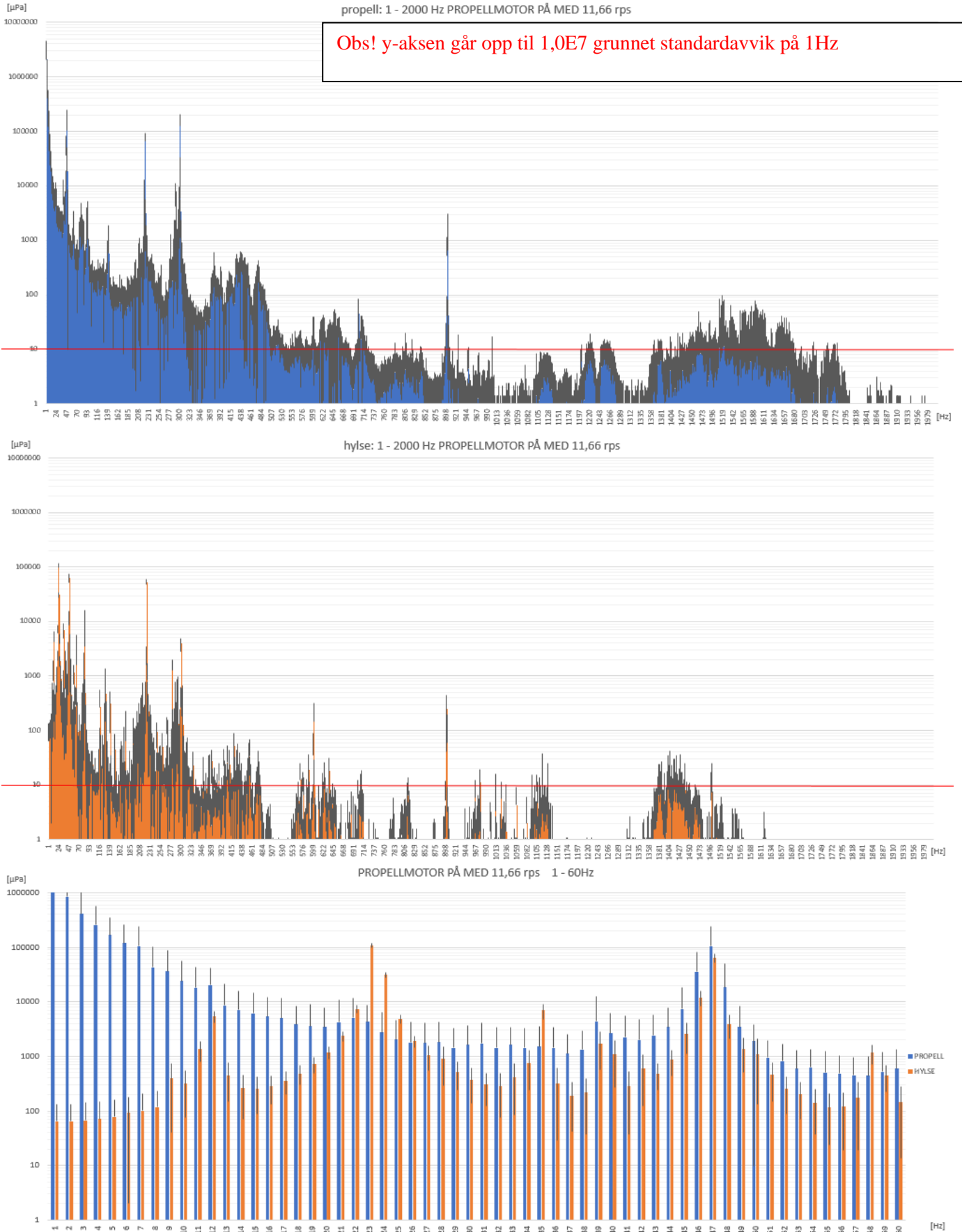


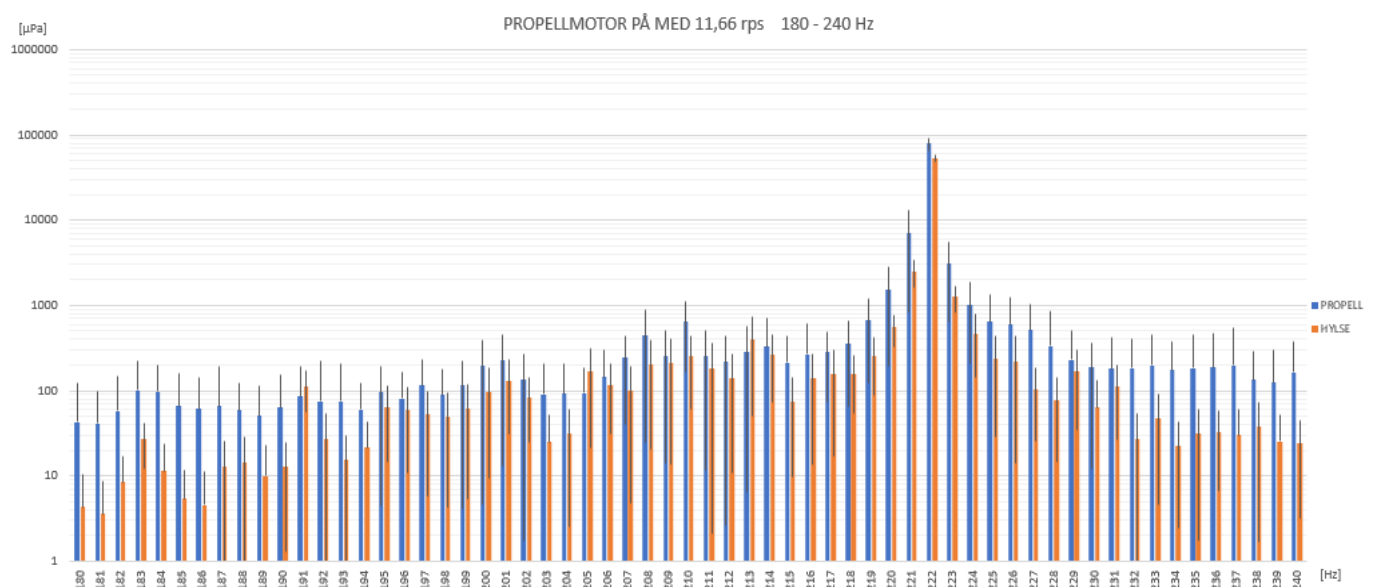
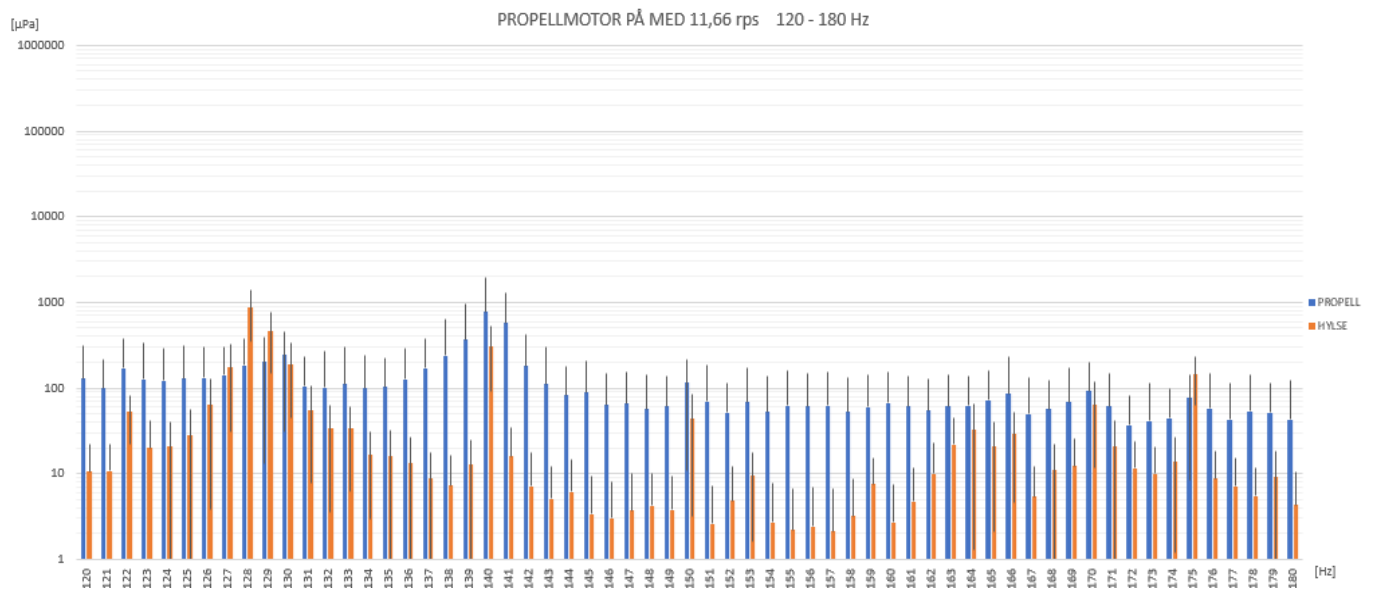
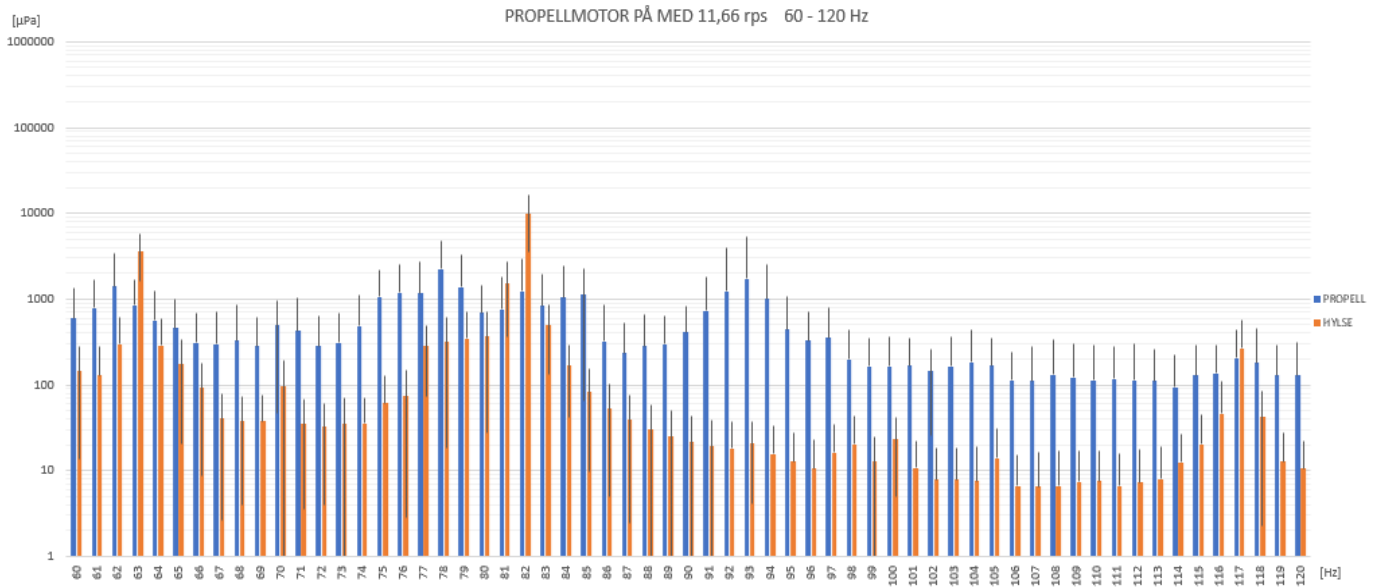


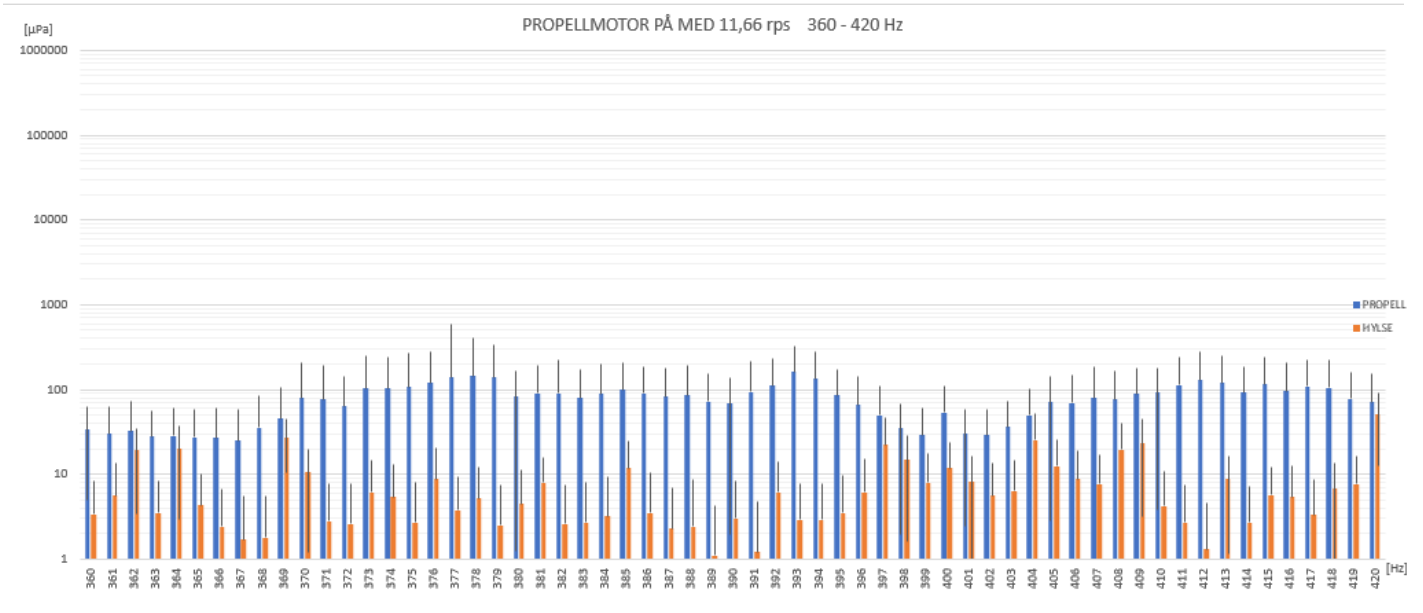
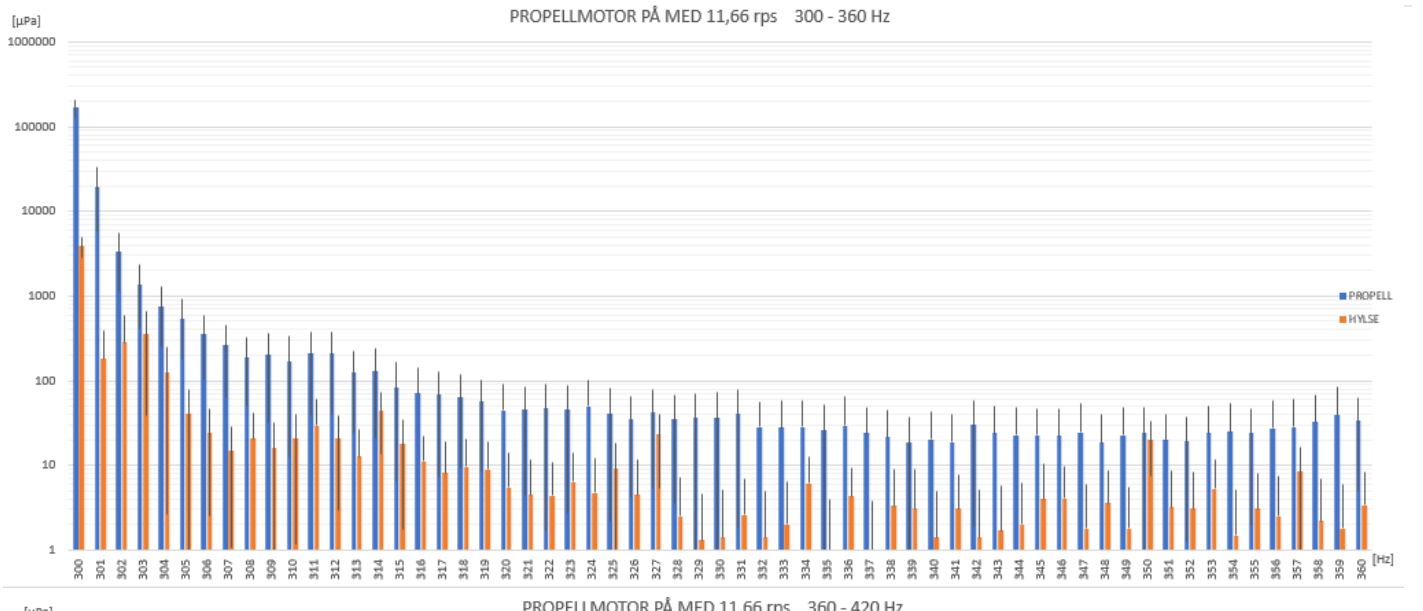
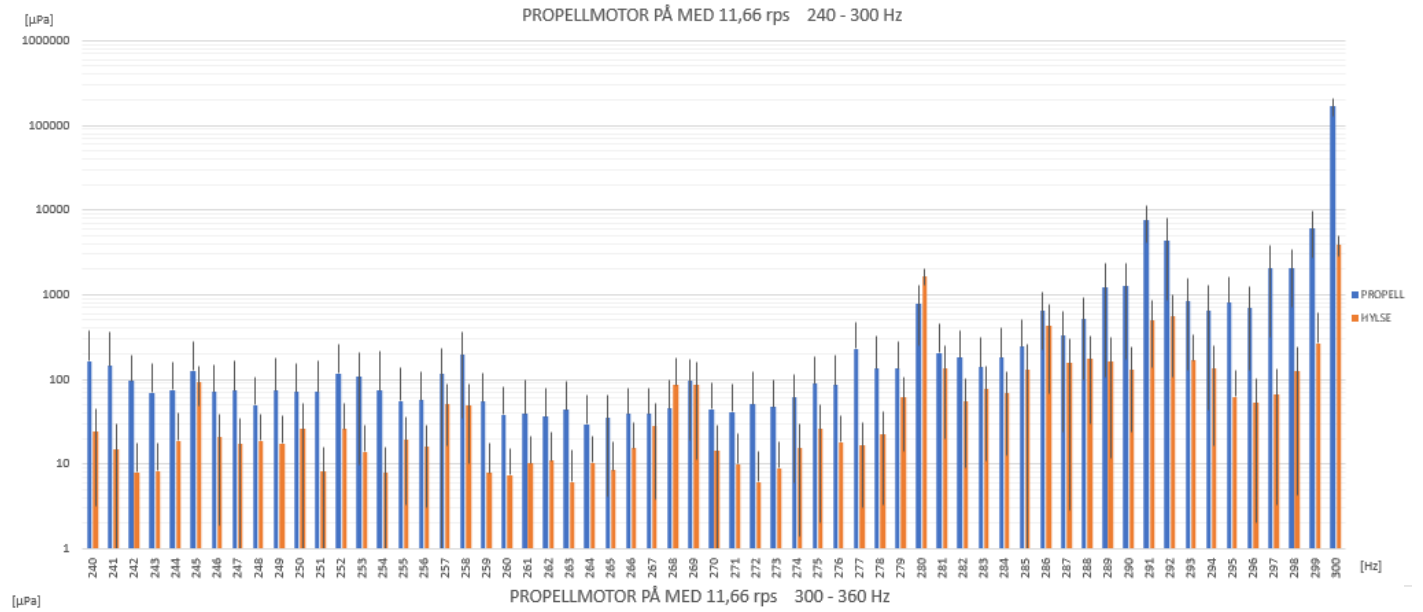


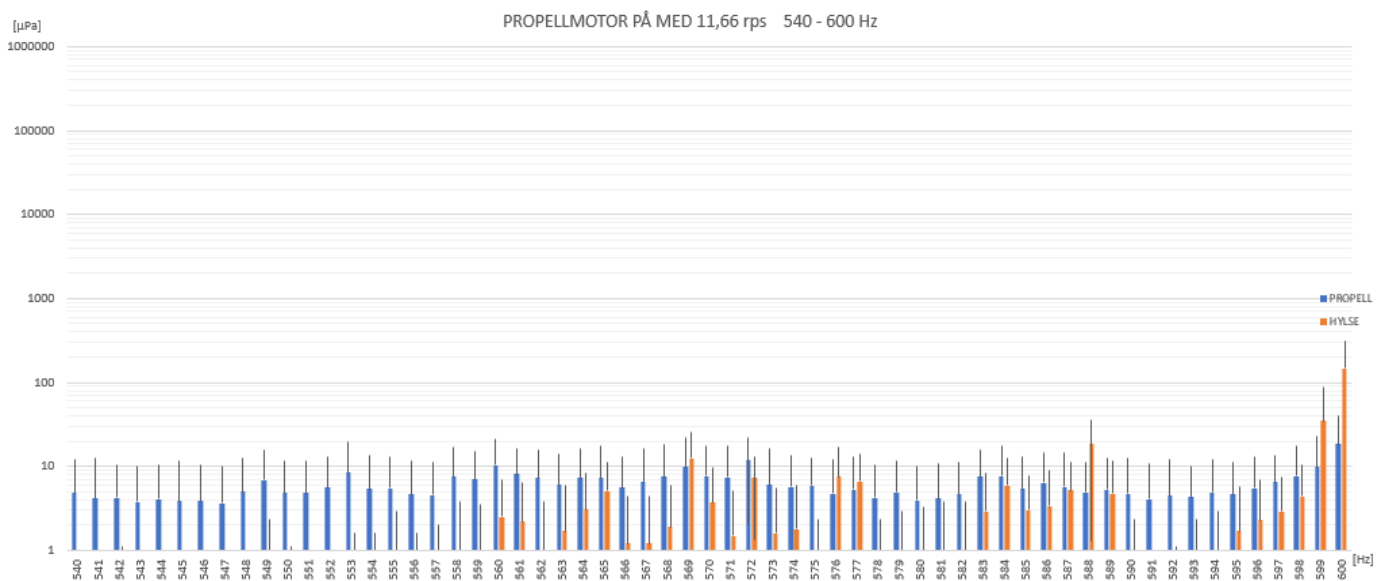
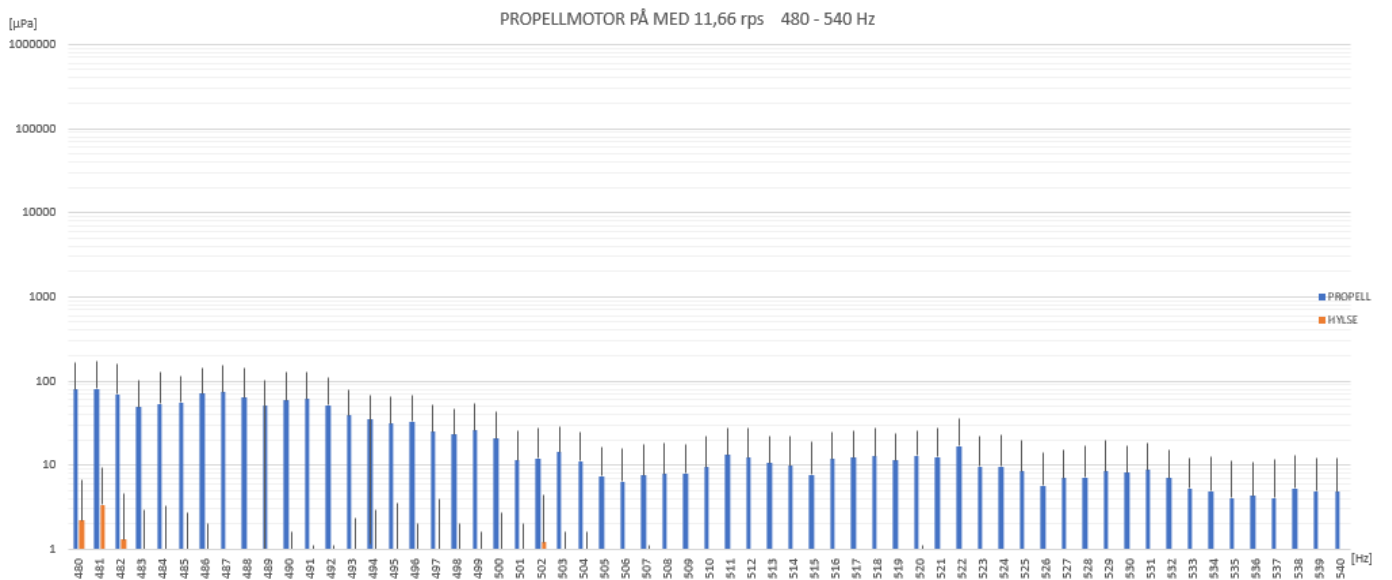
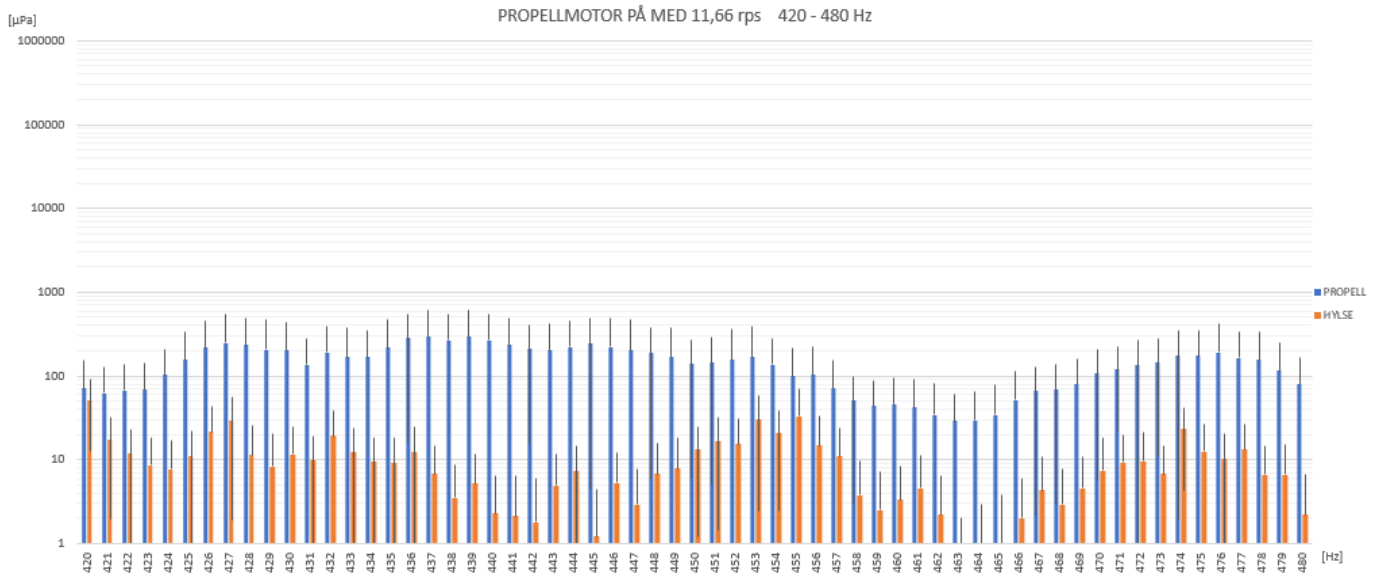


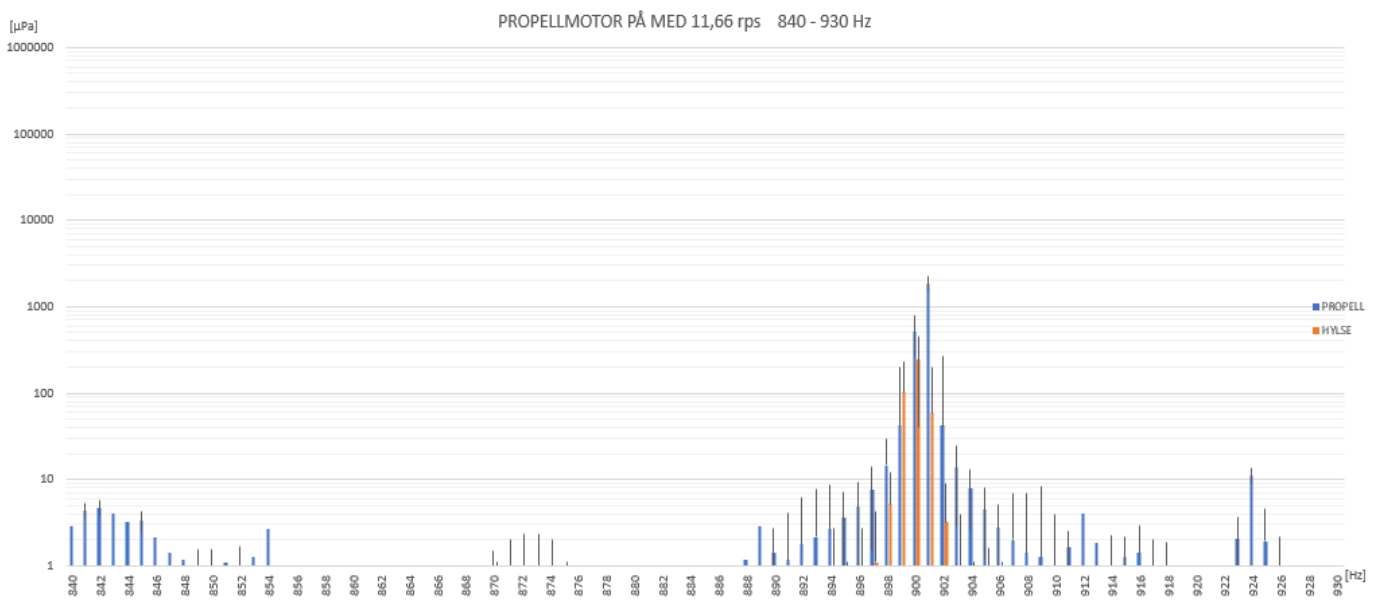
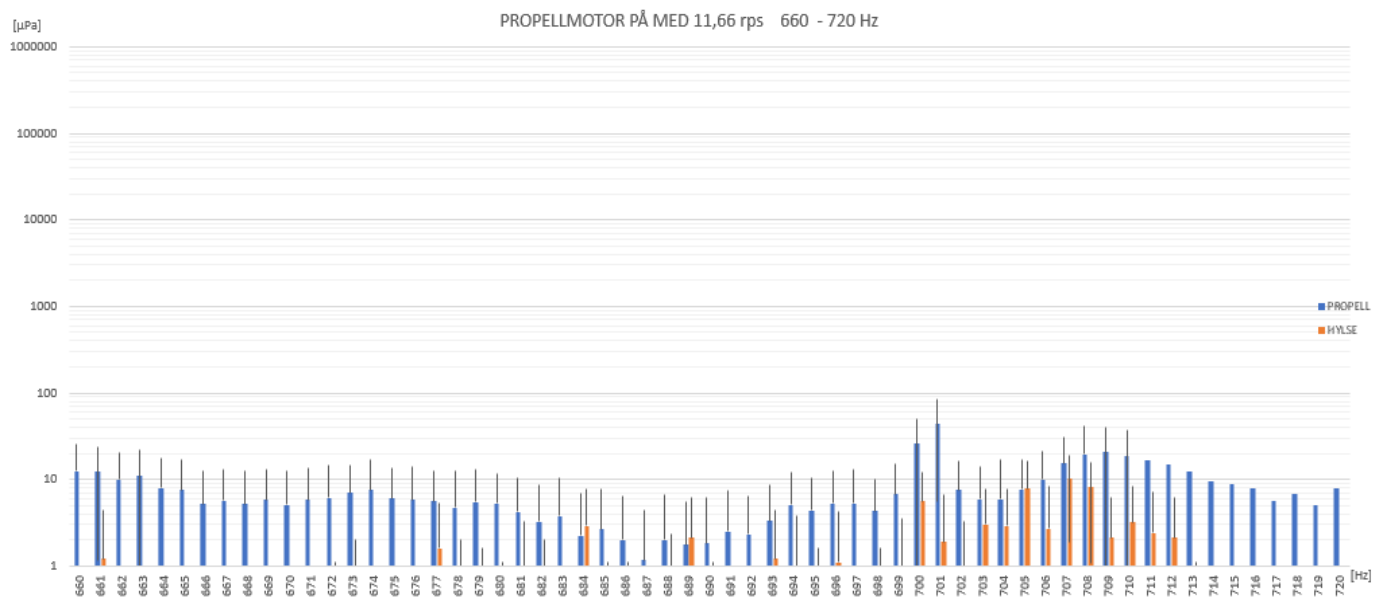
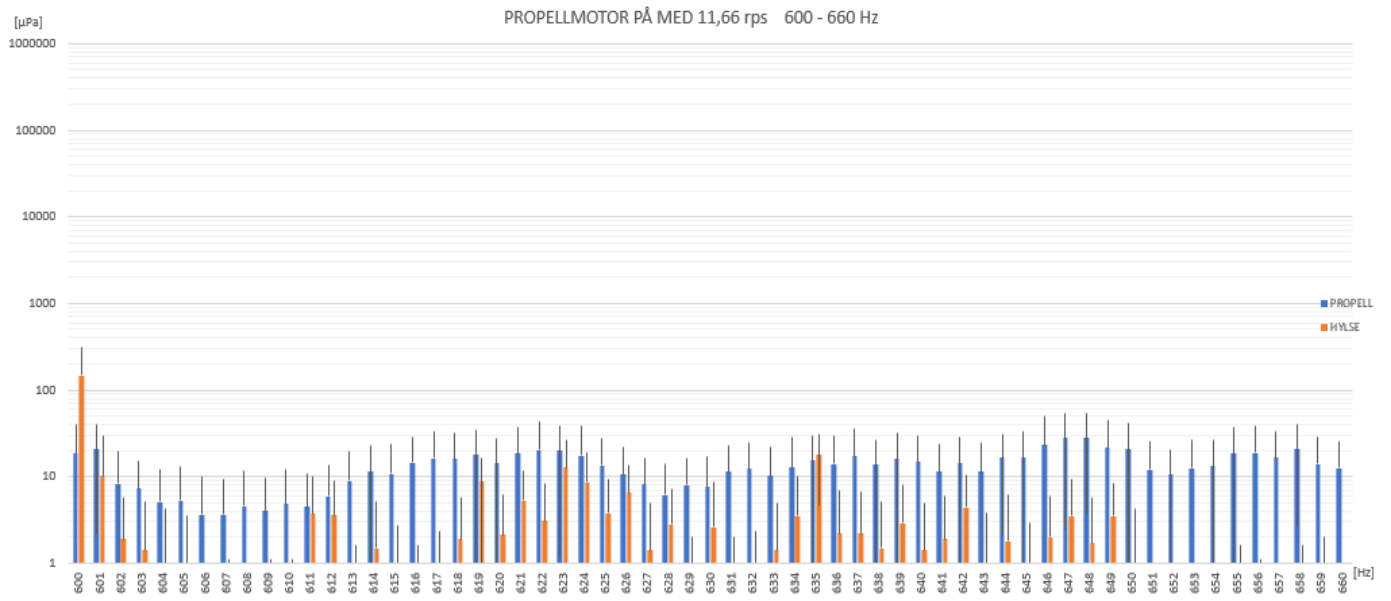
Scenario 10 og 30: Tabeller med propellmotor satt på 11,66rps. Impeller ikke slått på. Med og uten propell (Ved propell vil det oppstå kavitasjon)



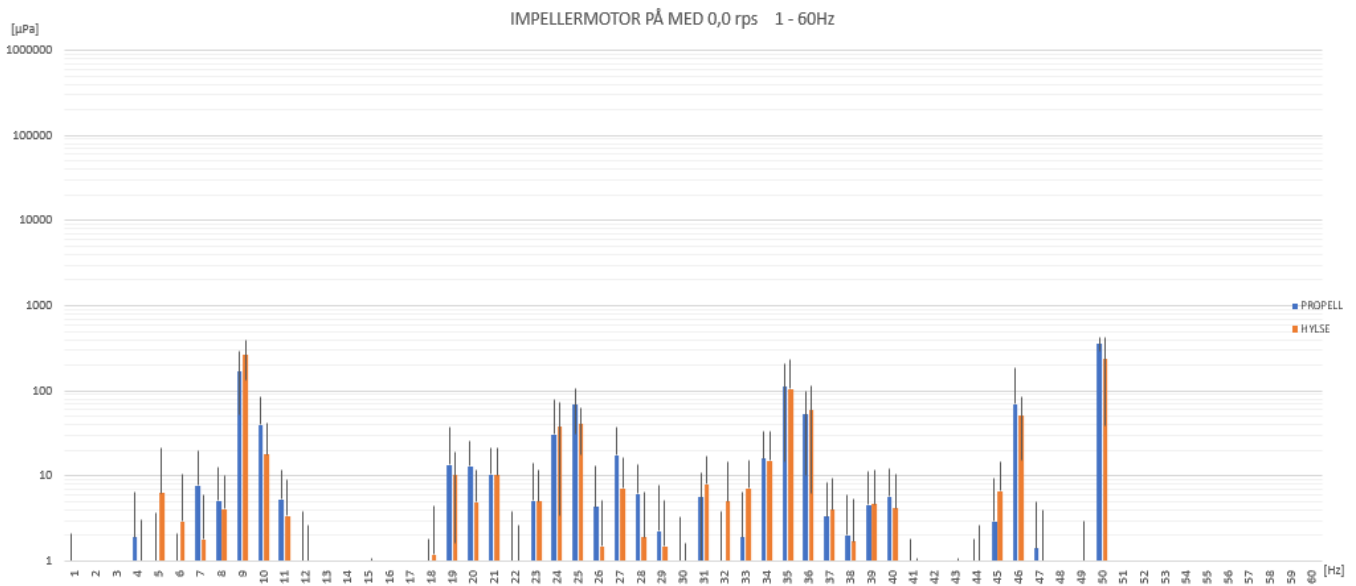
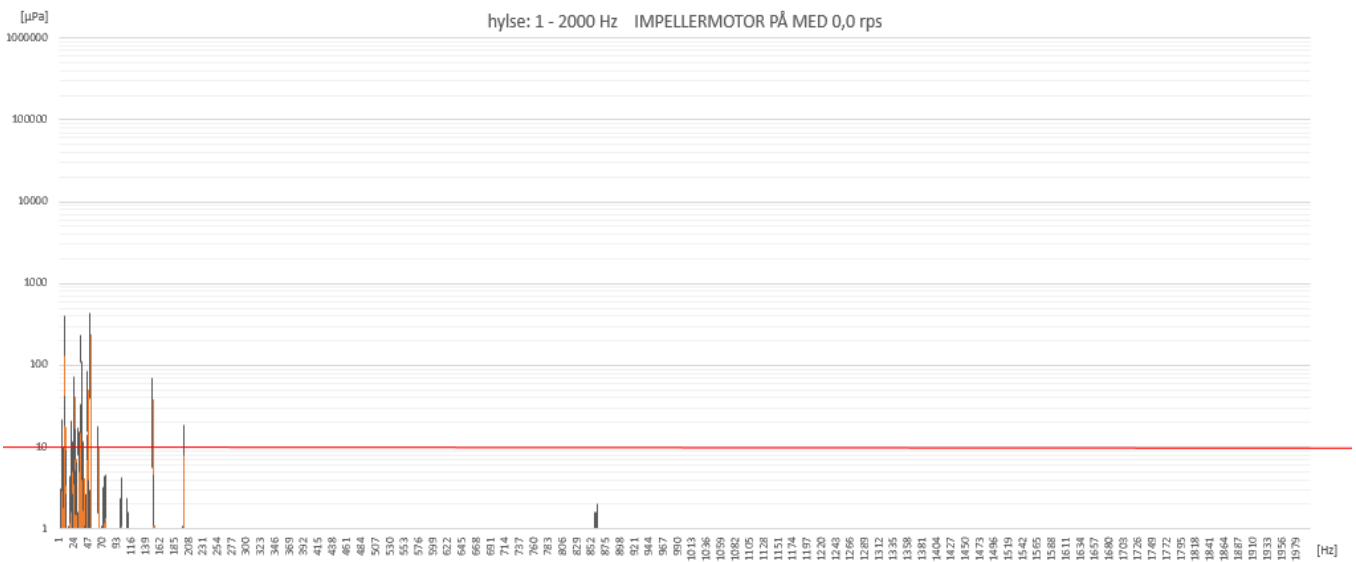
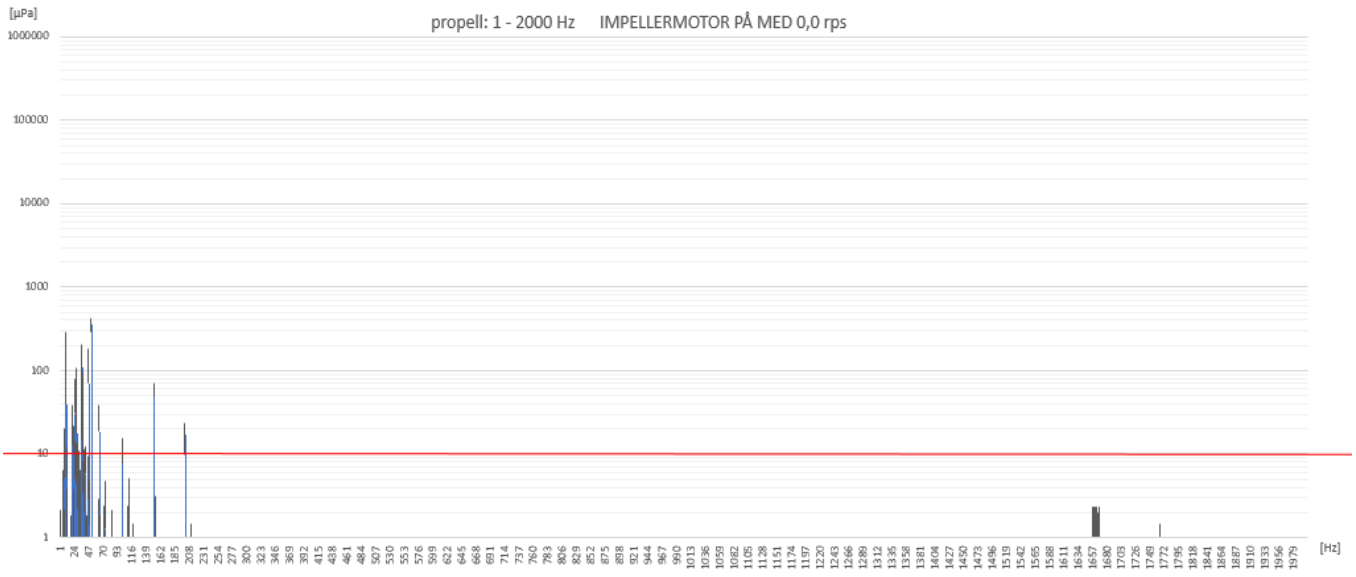


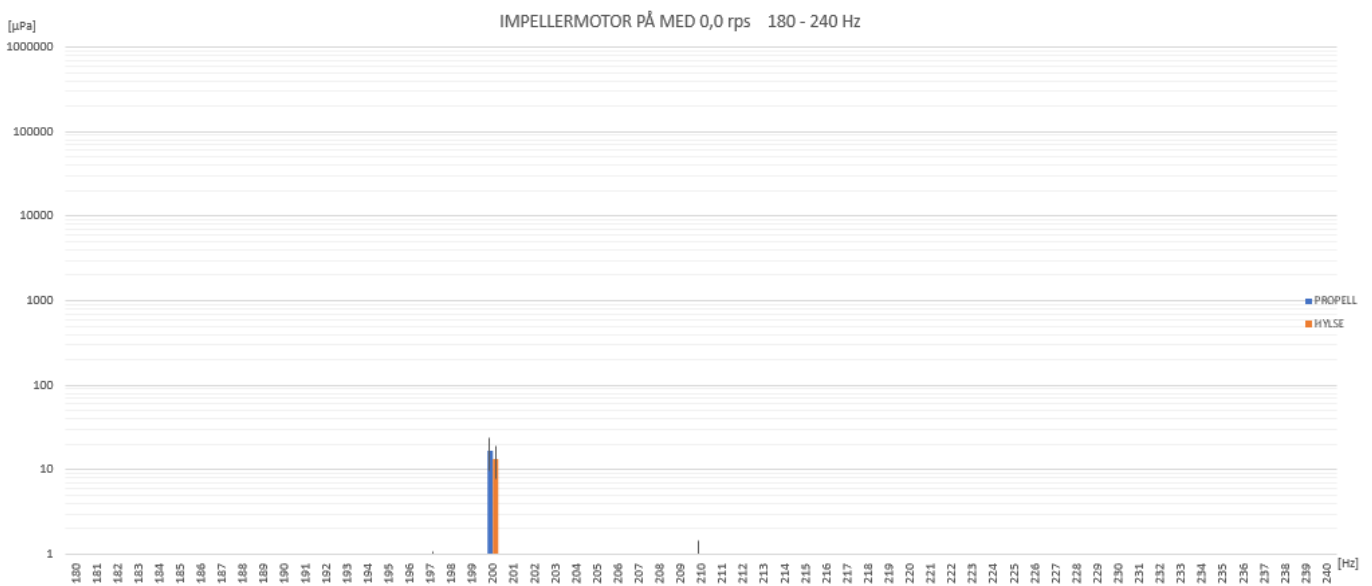
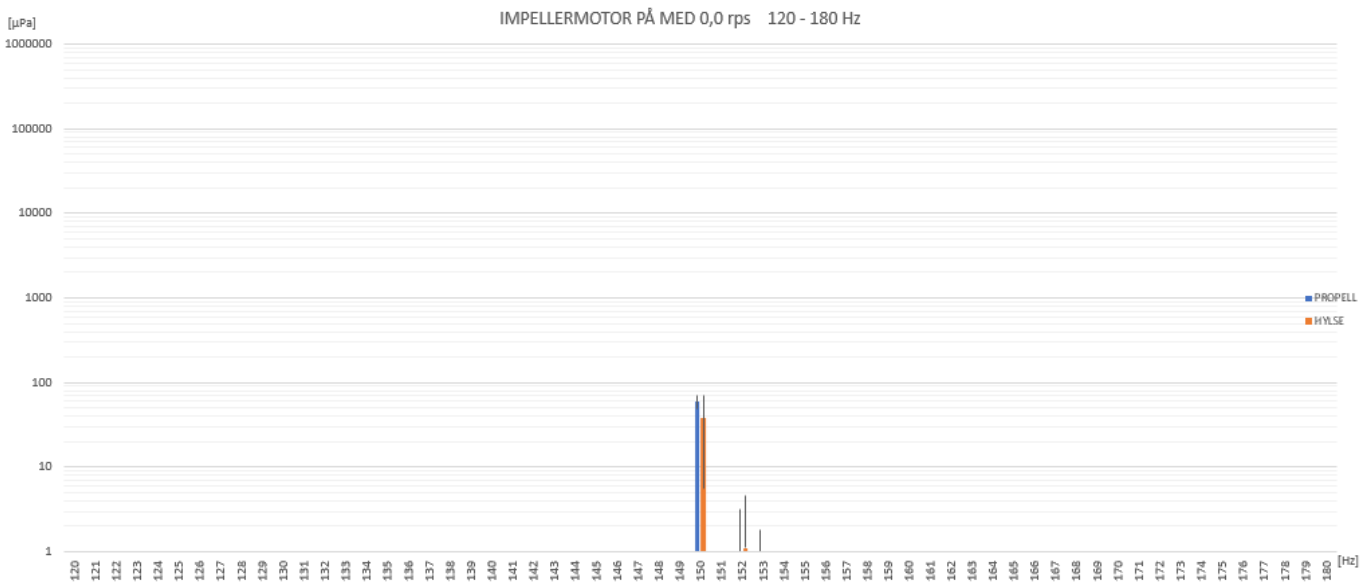
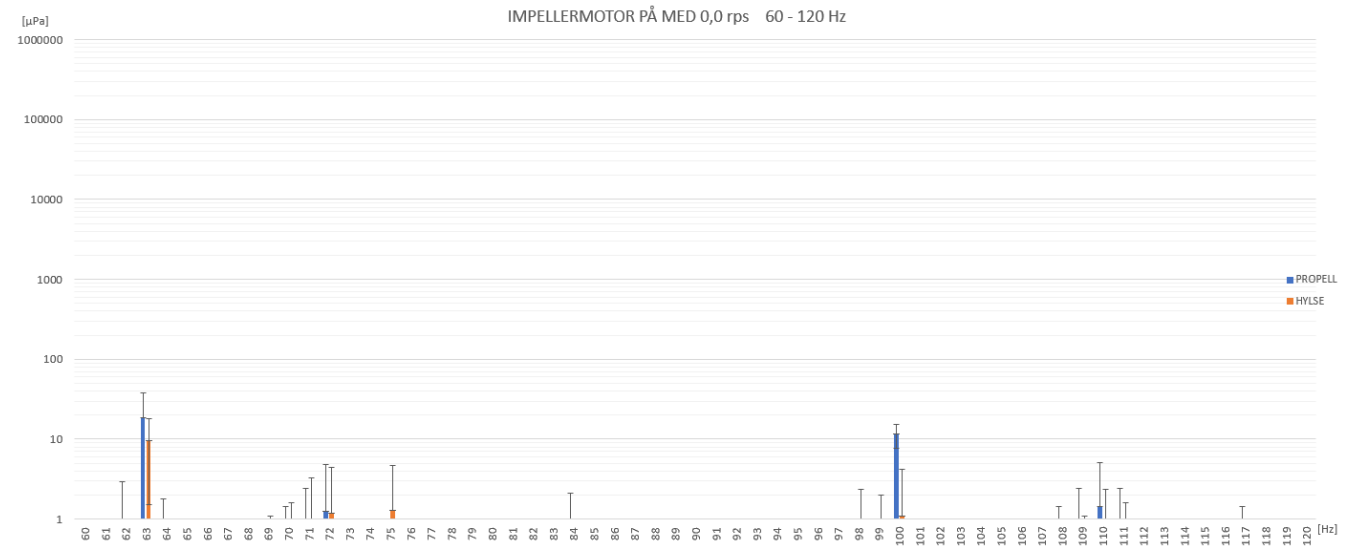


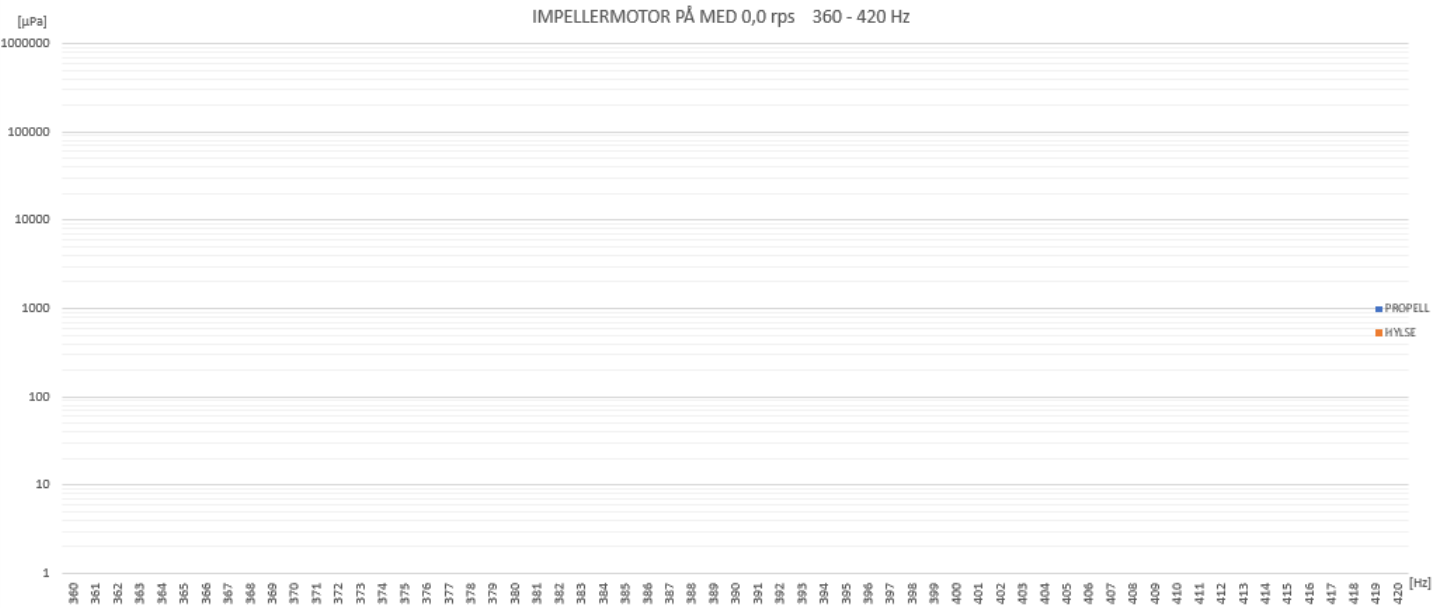
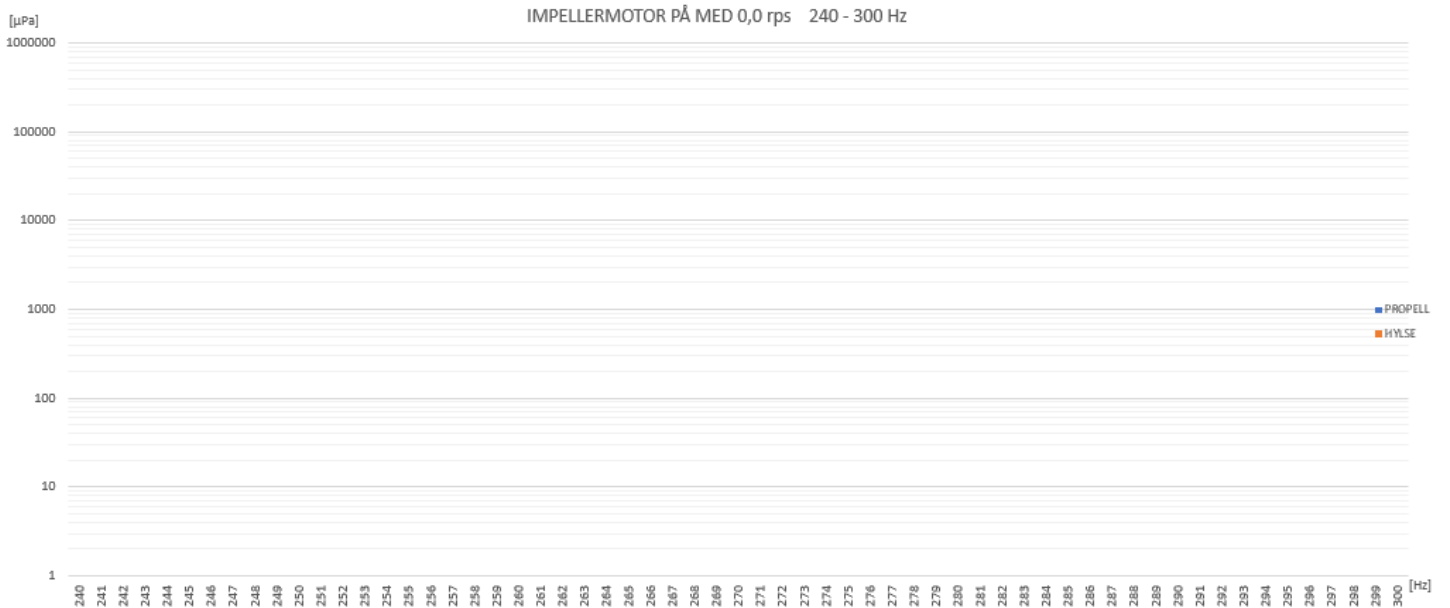


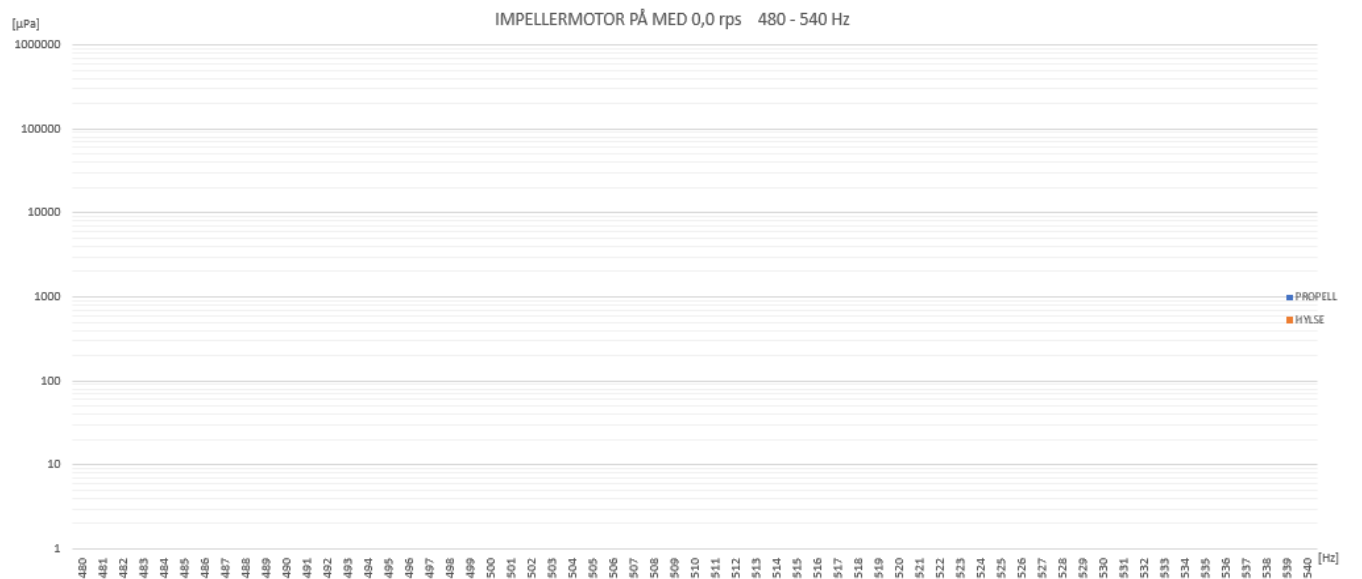
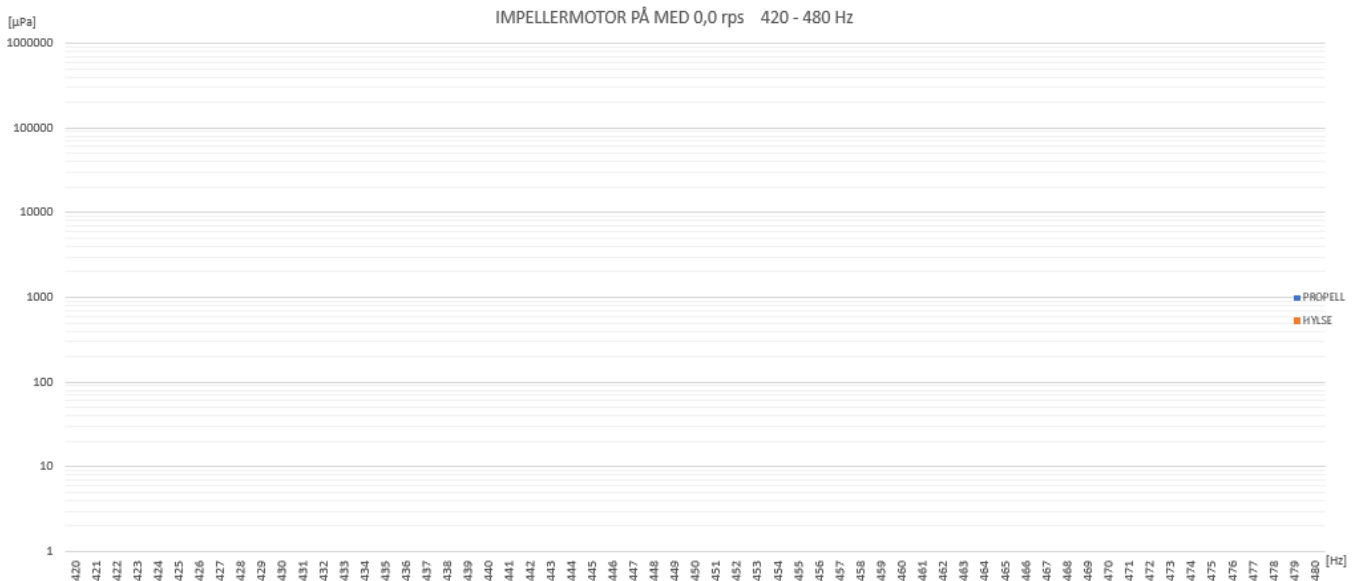


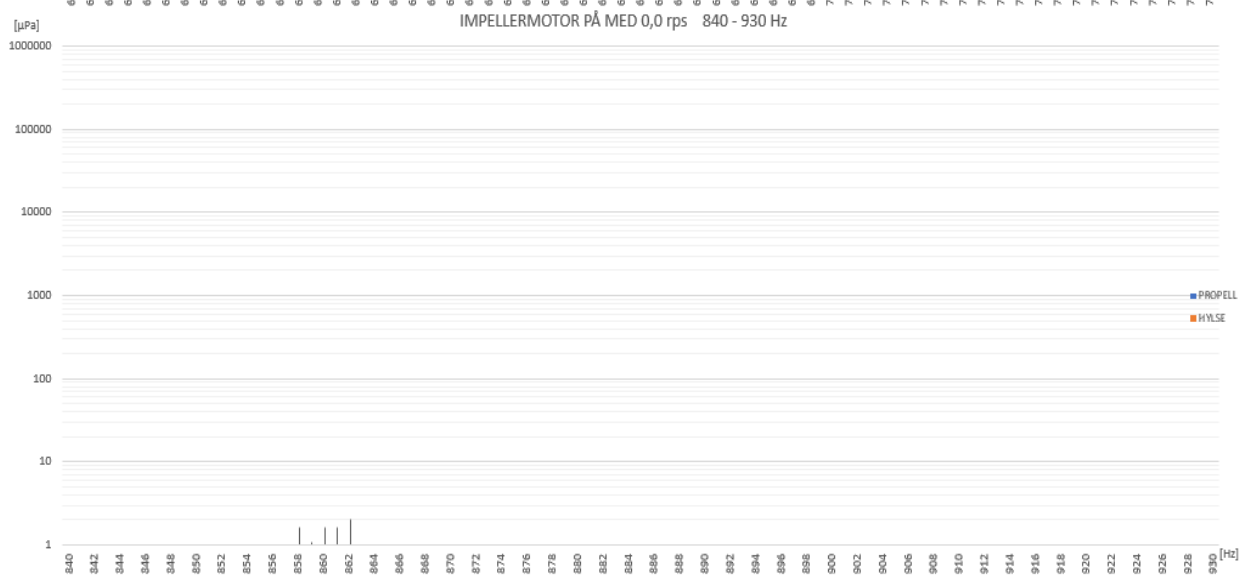
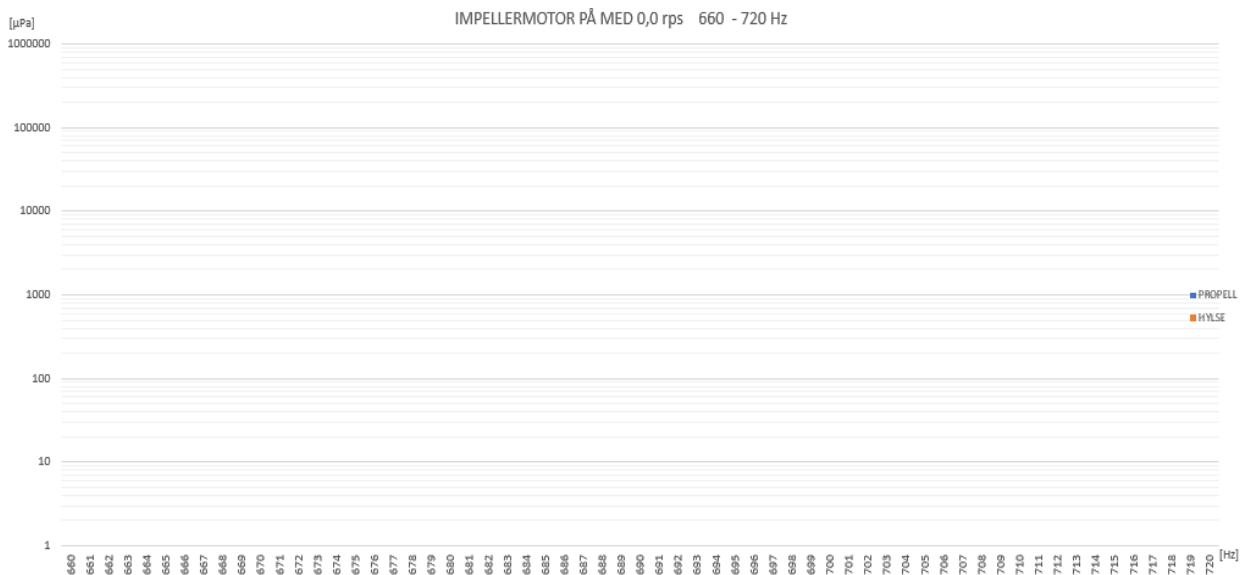
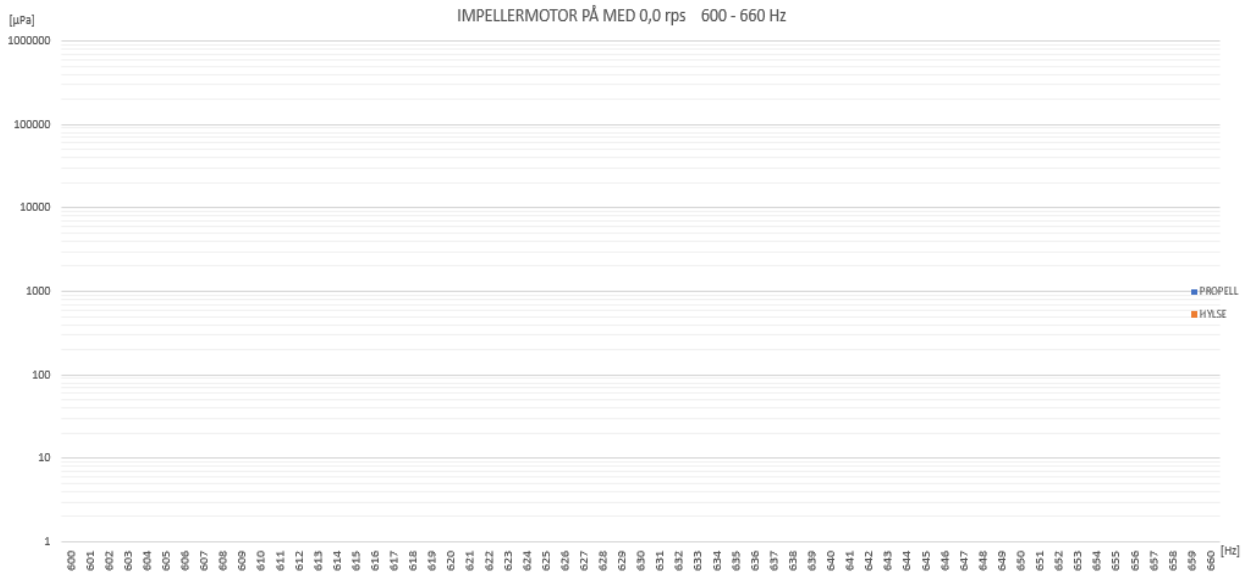
Scenario 11 og 31: Tabeller med impellermotor på, uten fart på impeller og propellmotor av. Med og uten propell



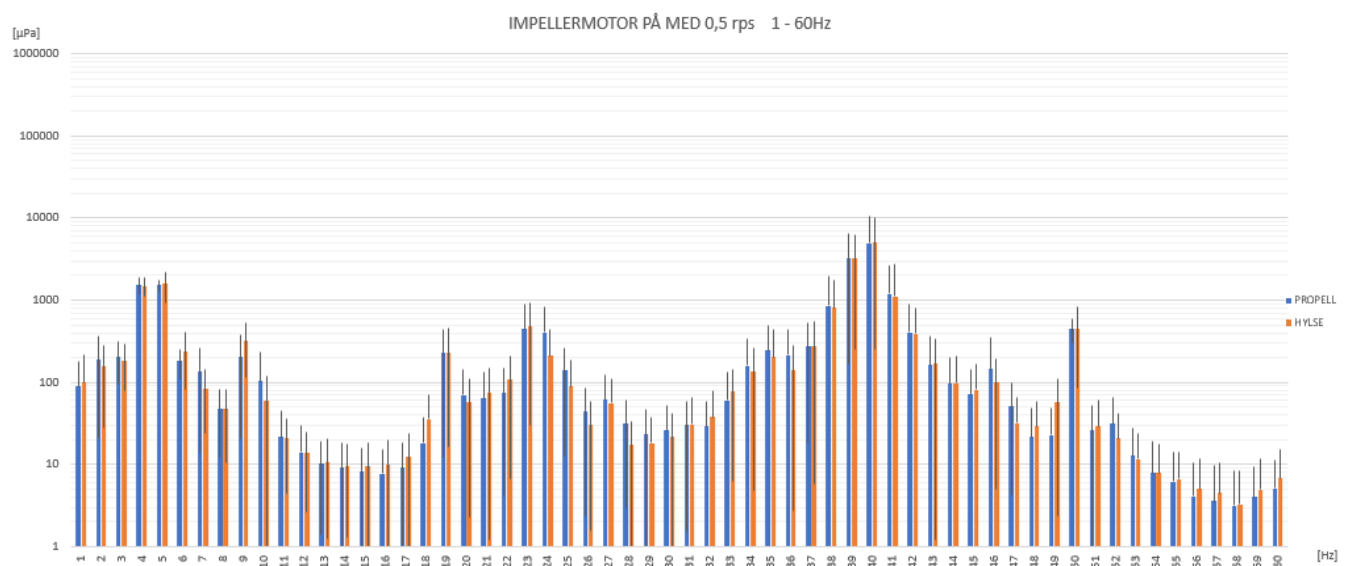
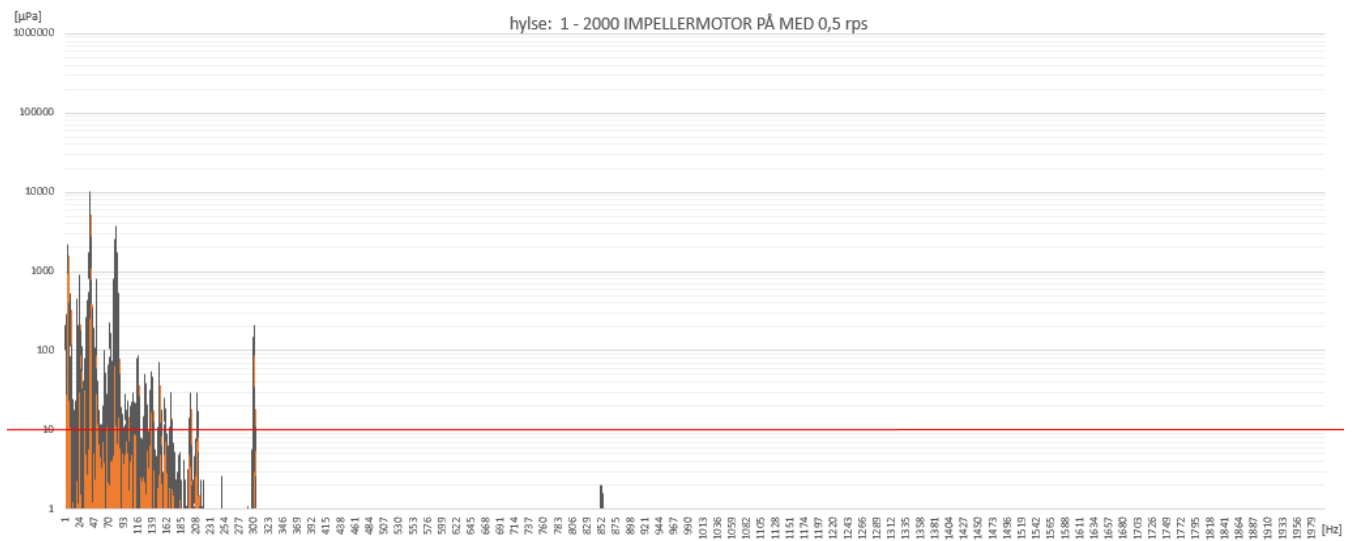
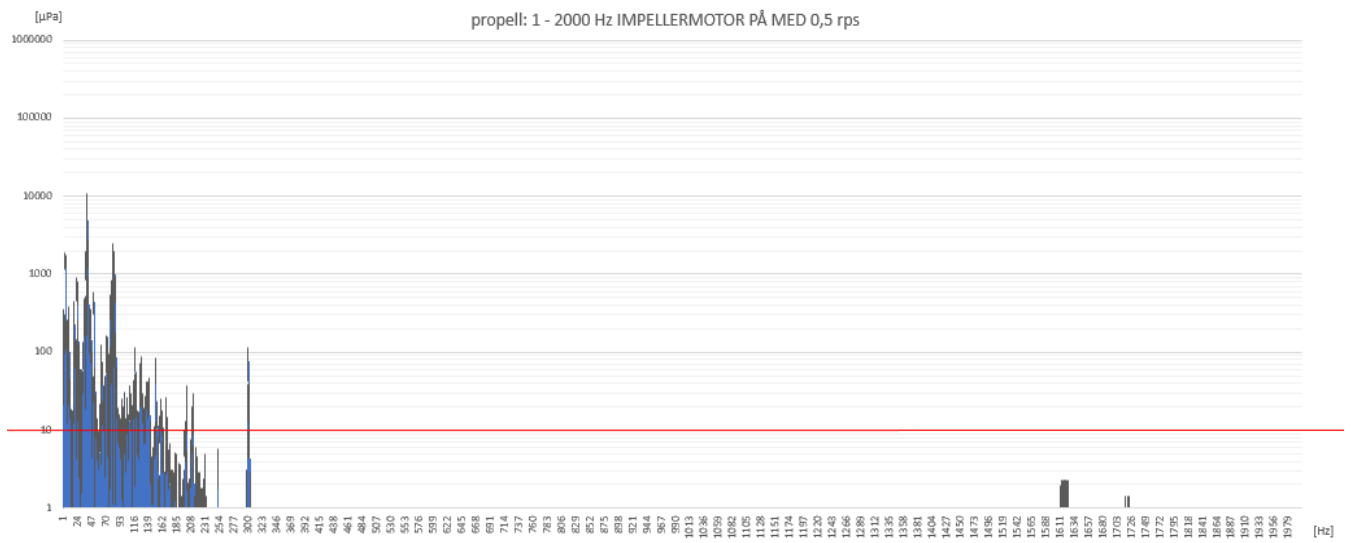


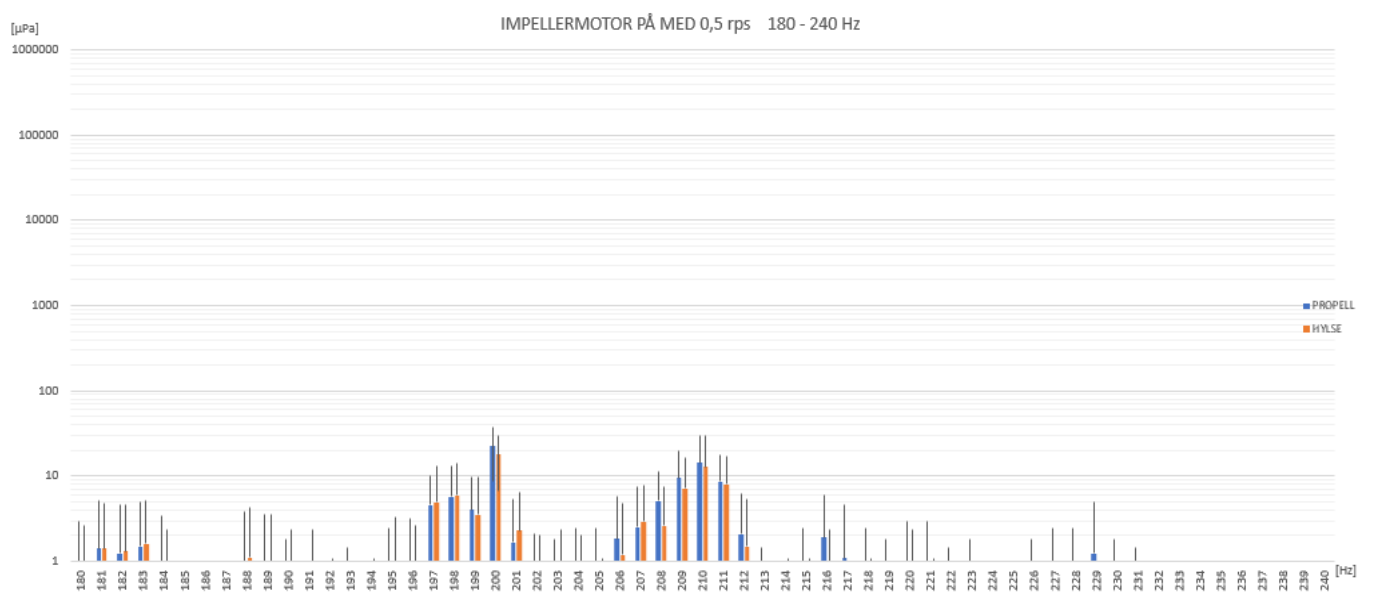
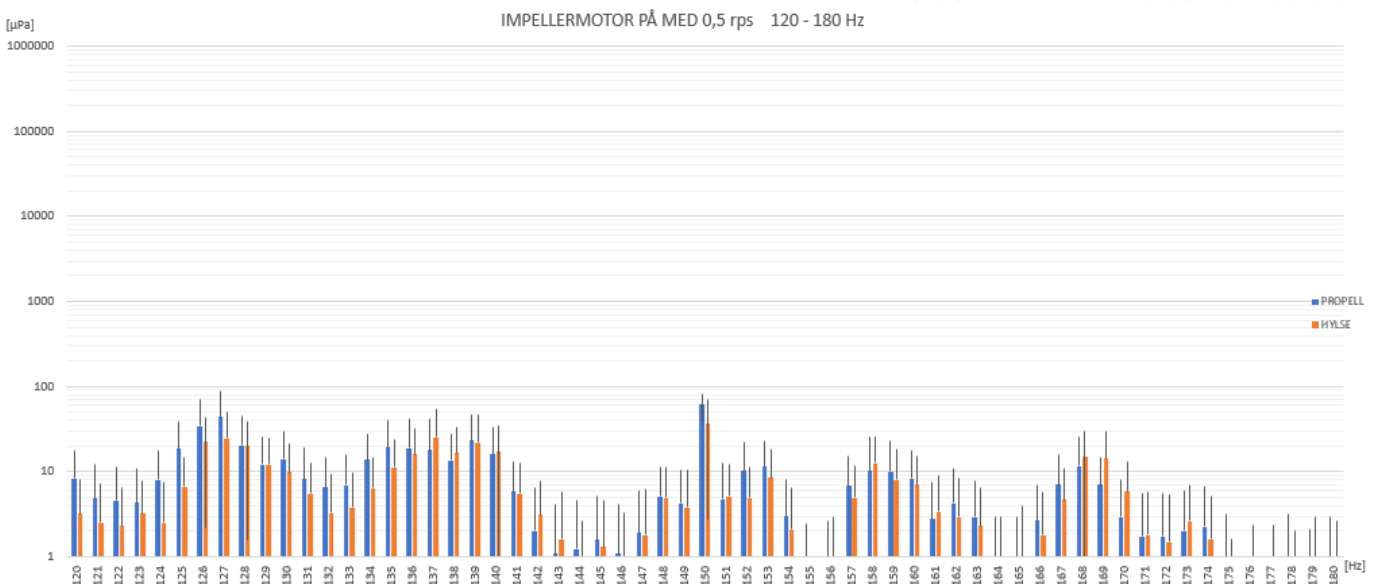
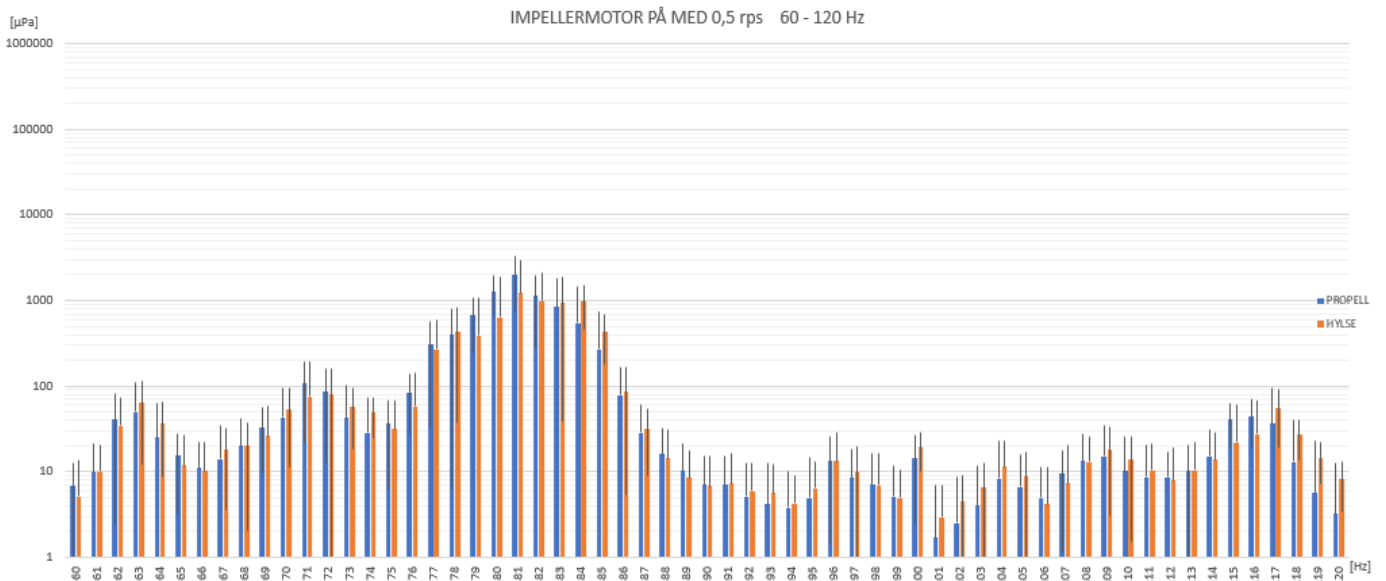


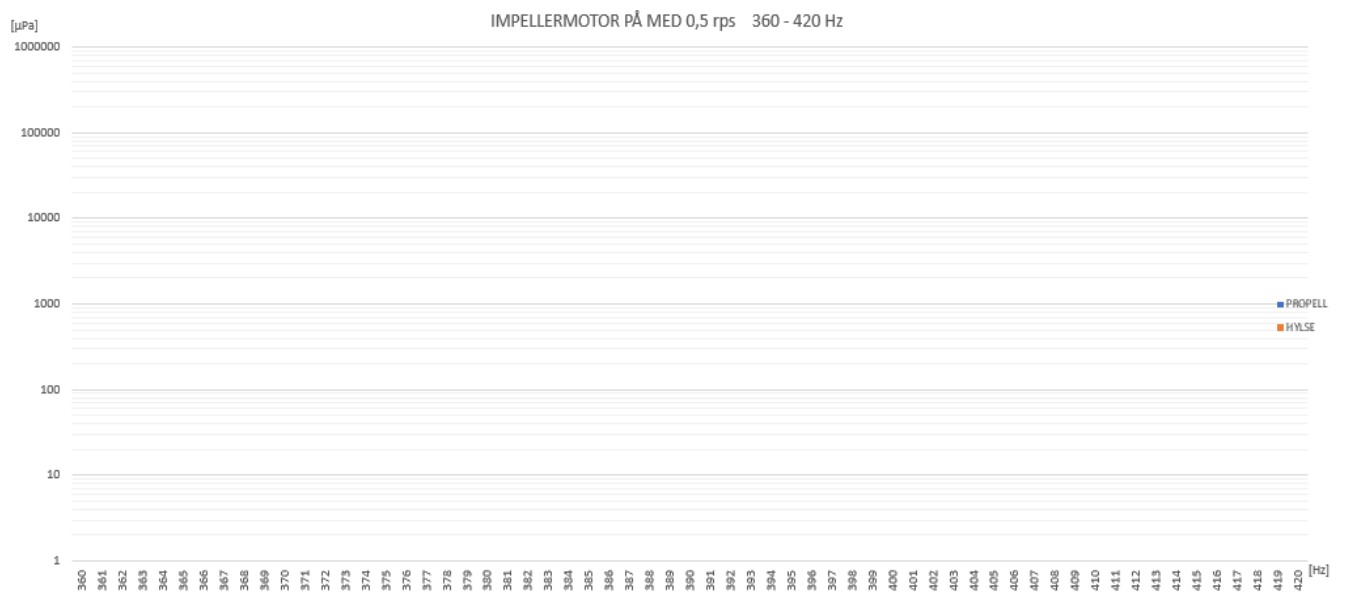
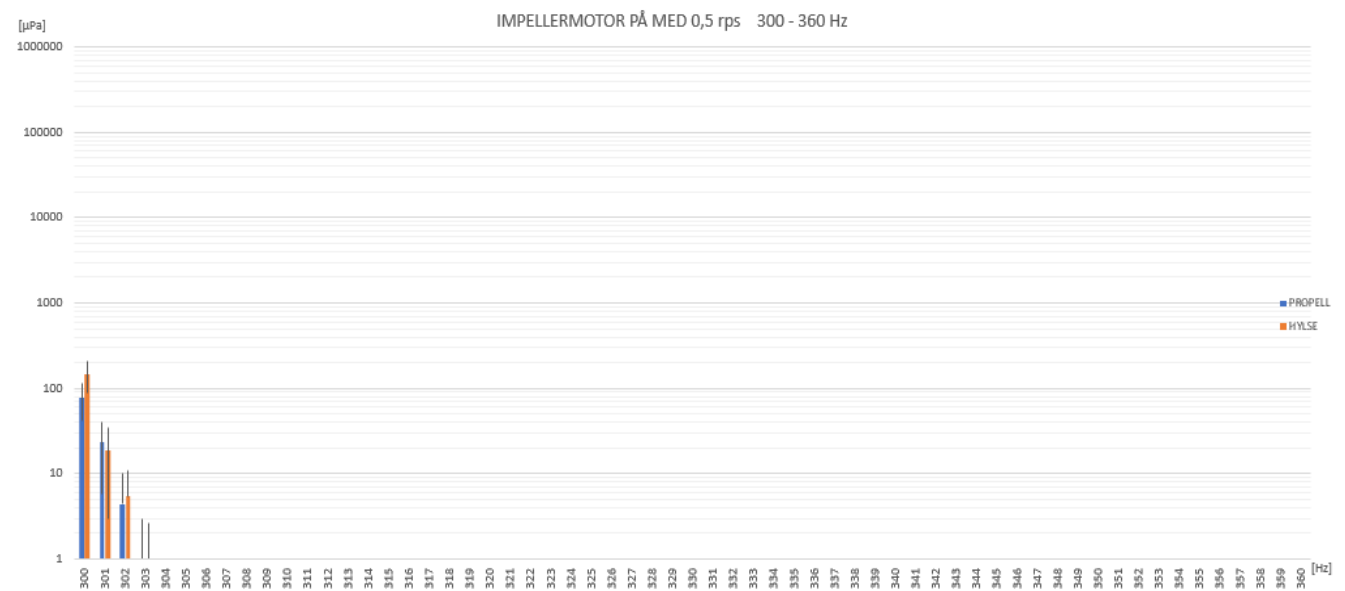
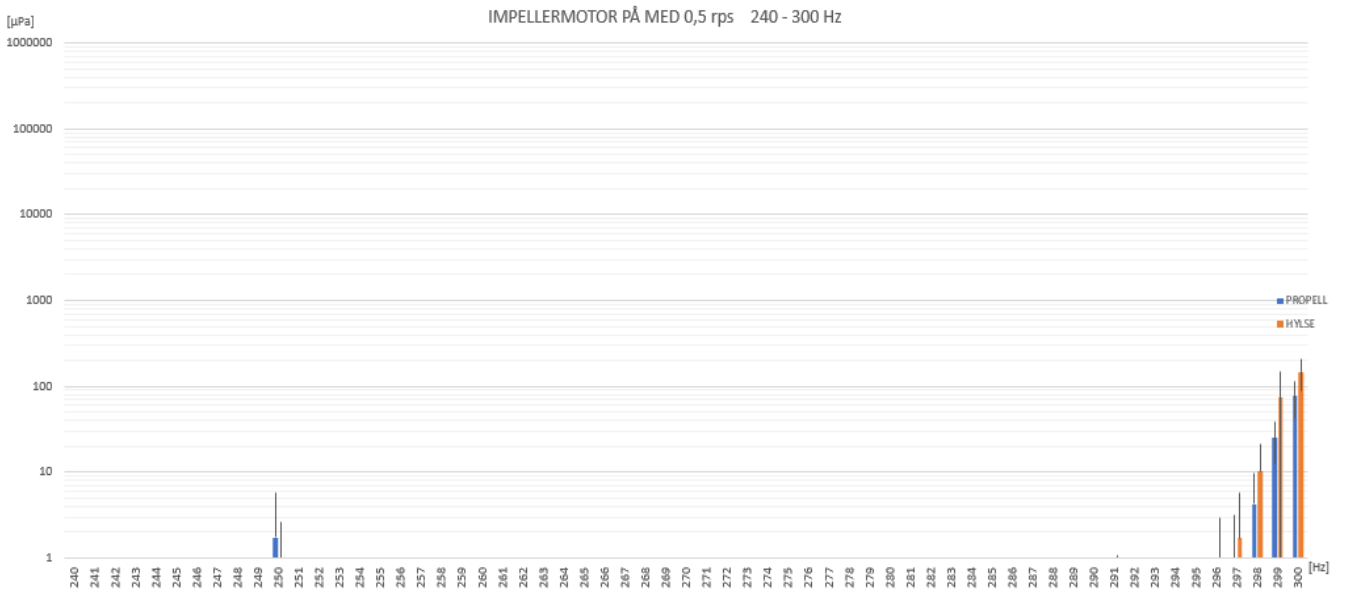


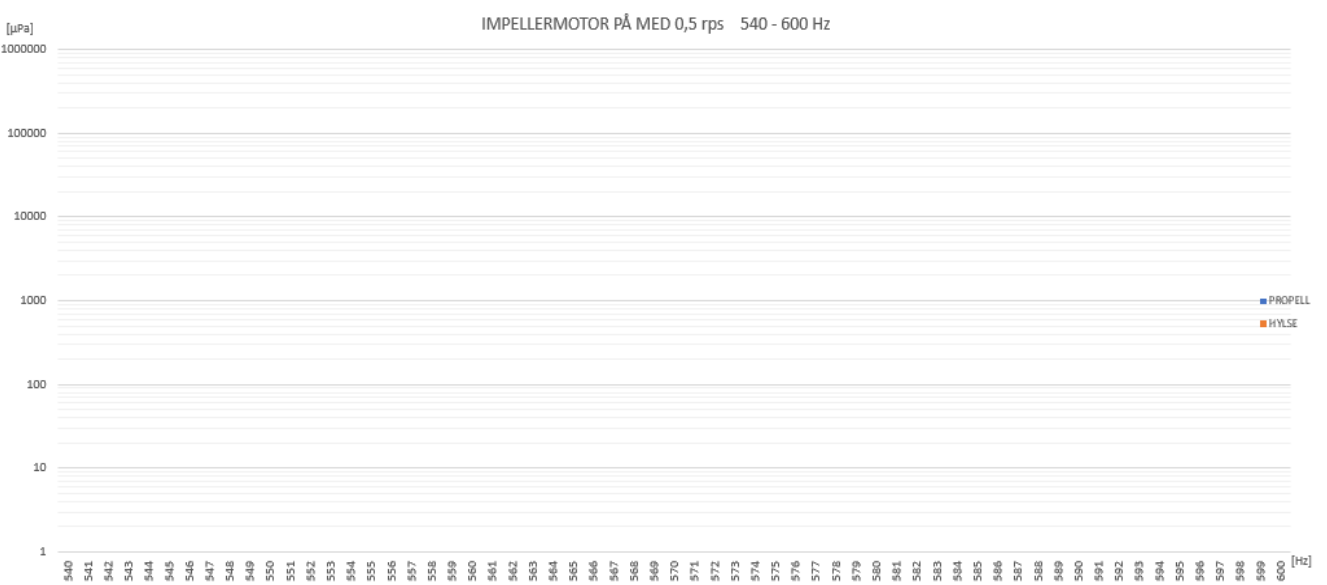
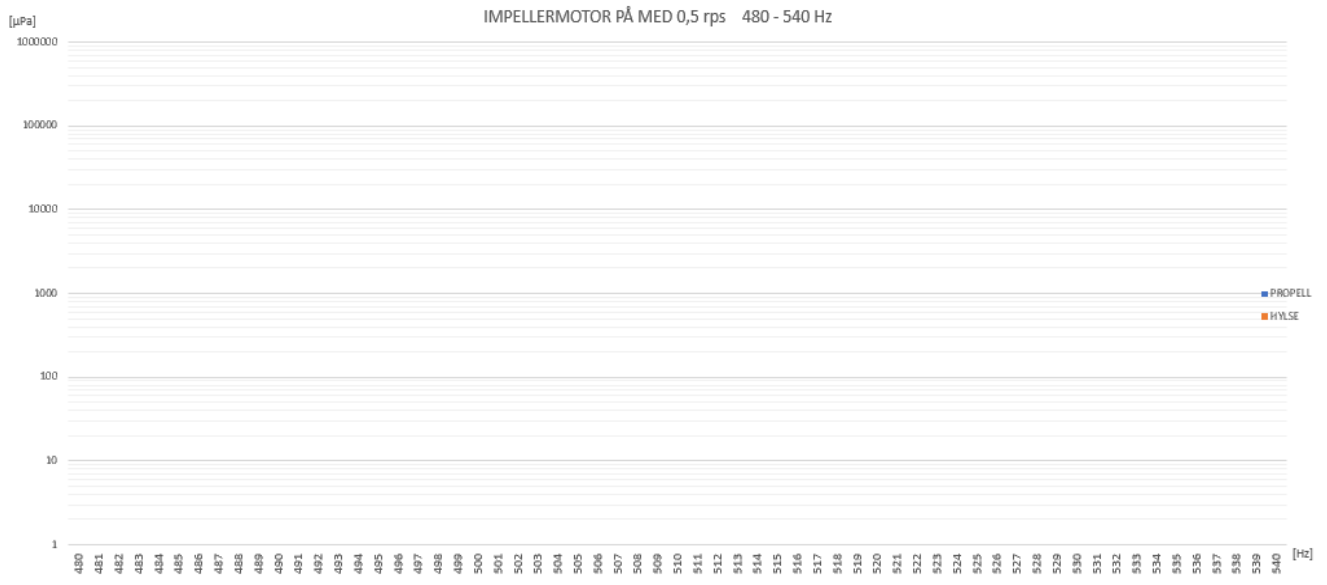


Scenario 12 og 32: Tabeller med impellermotor satt til 0,5rps. Med og uten propell. høyere skala



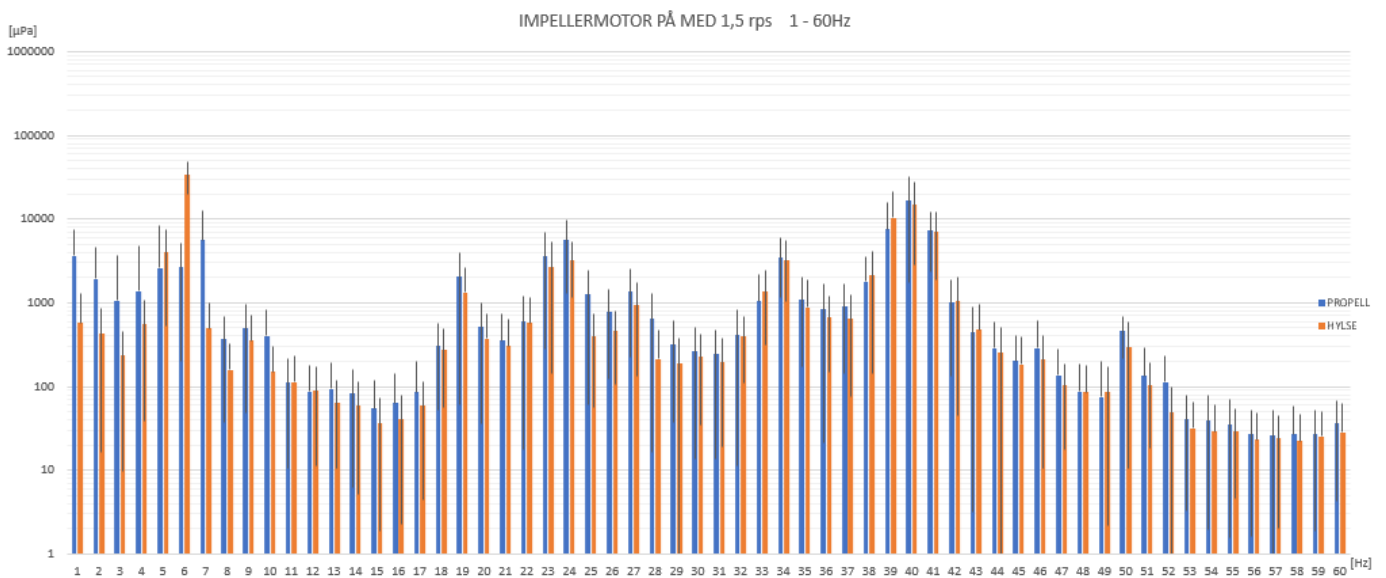
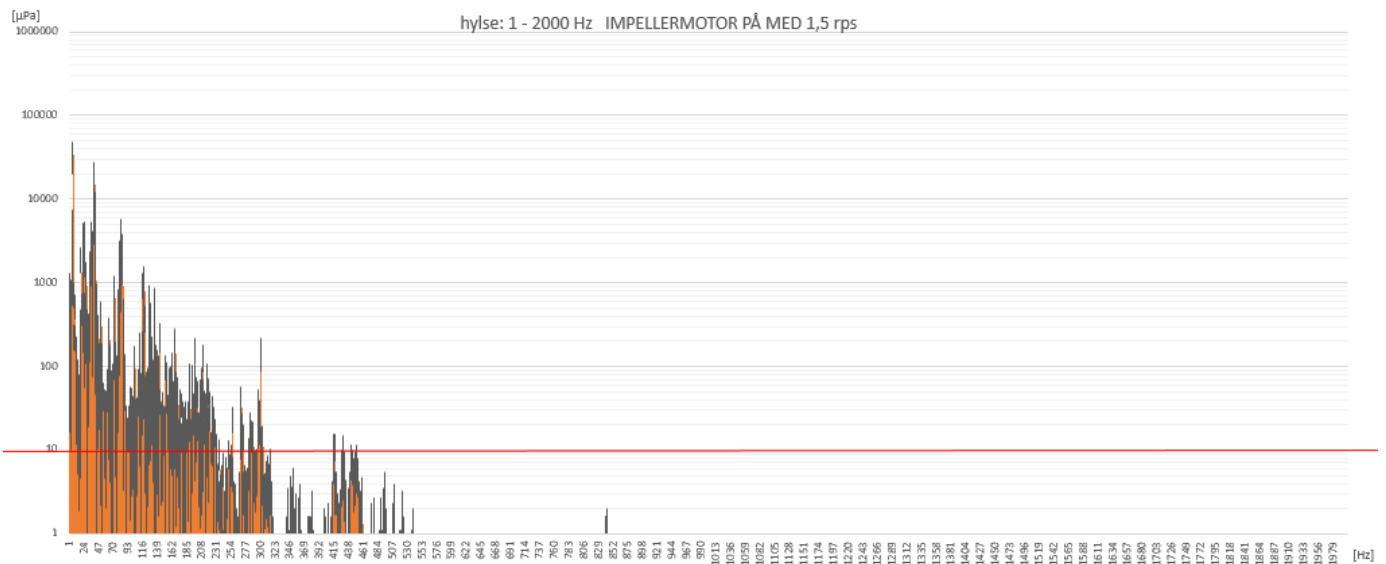
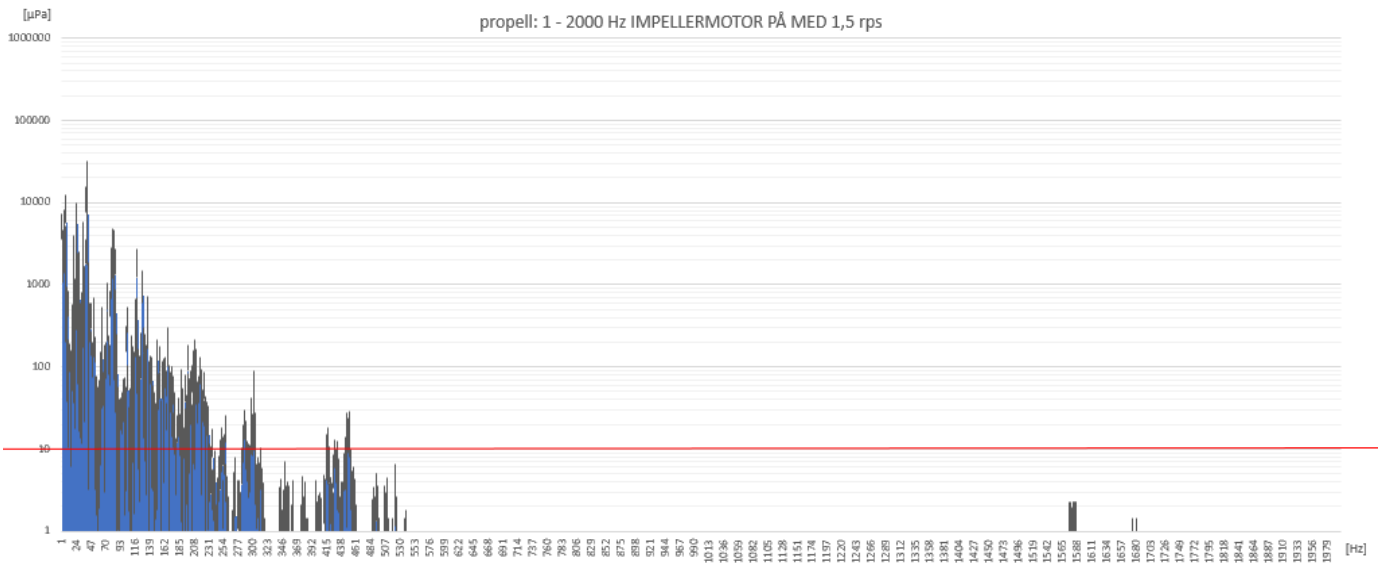


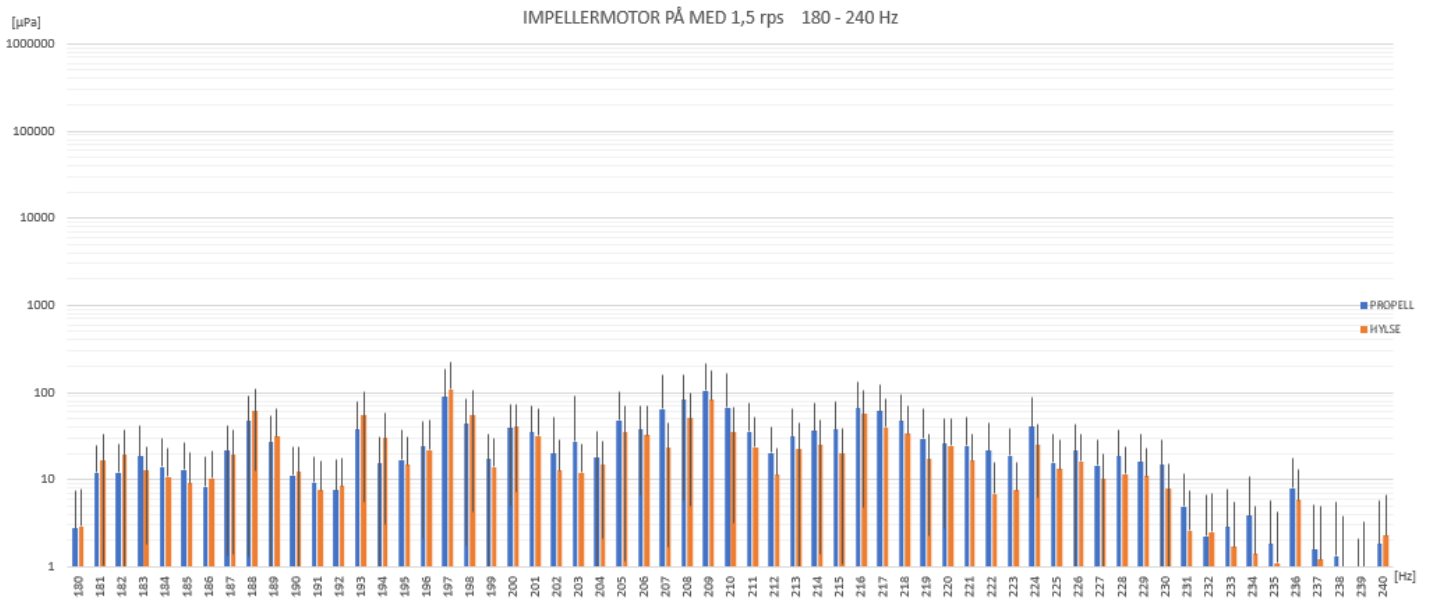
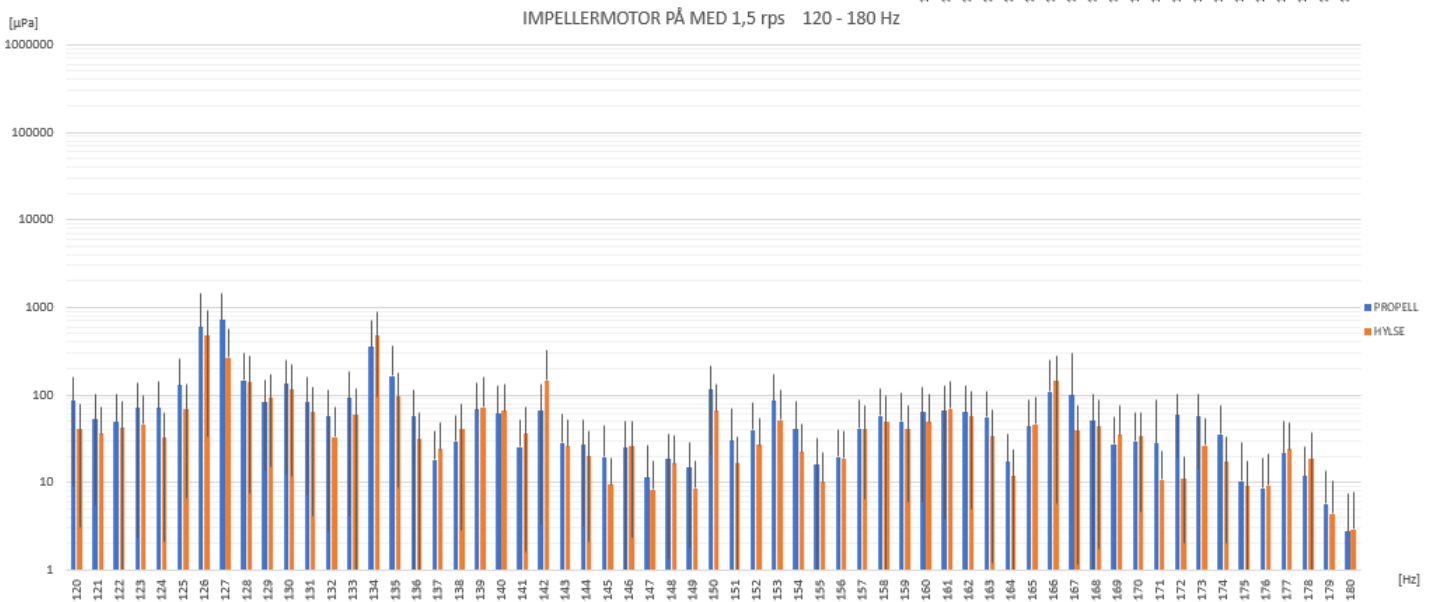
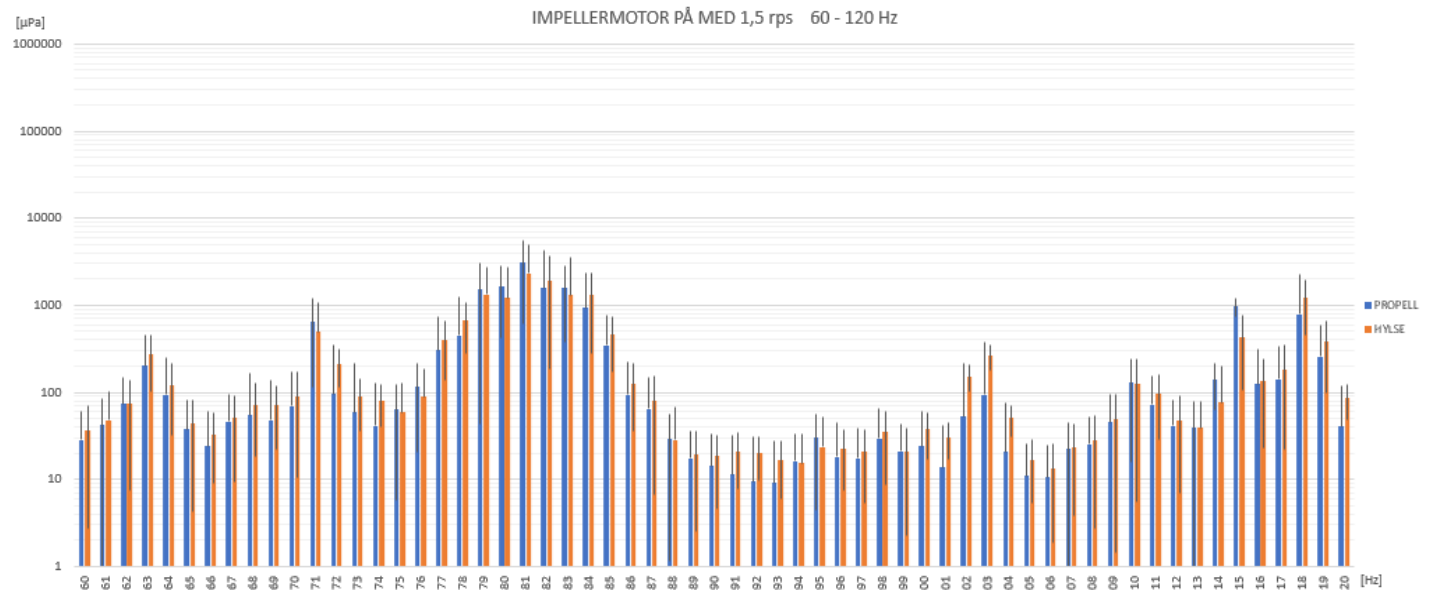


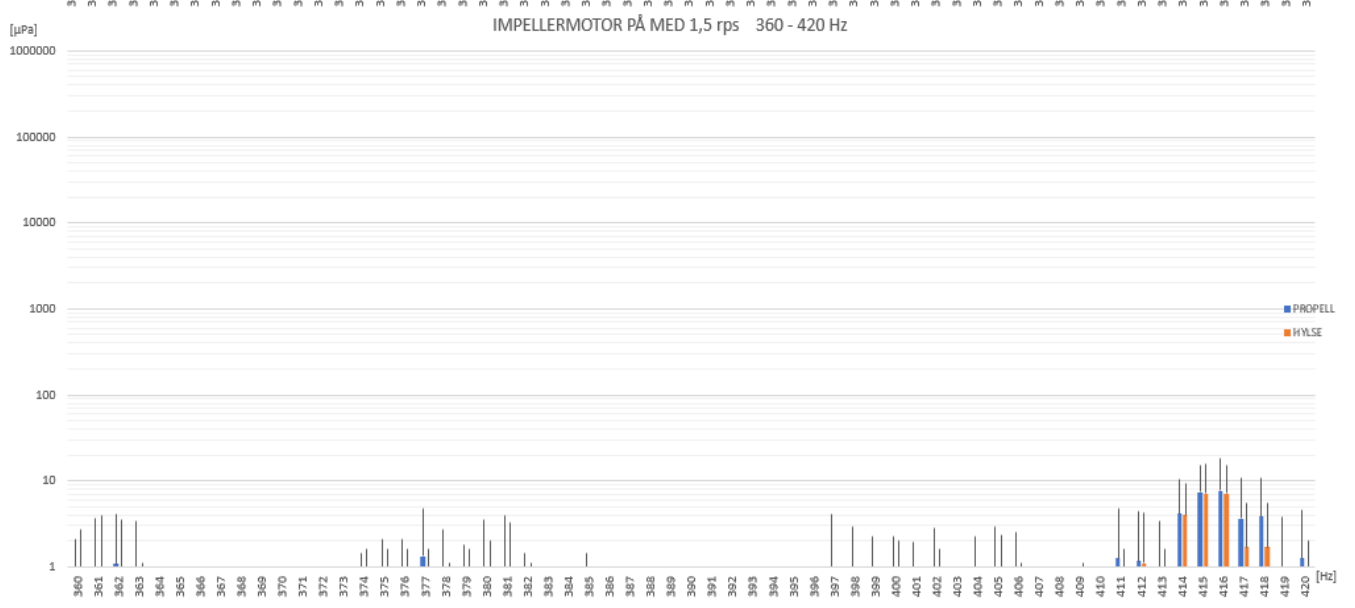
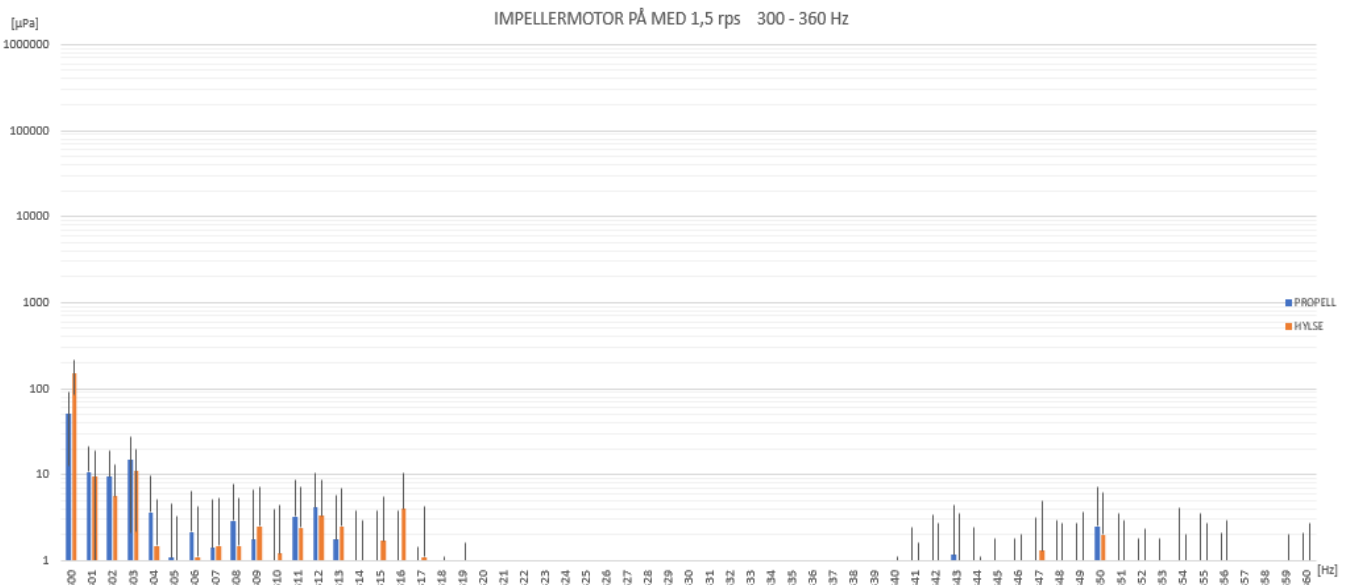
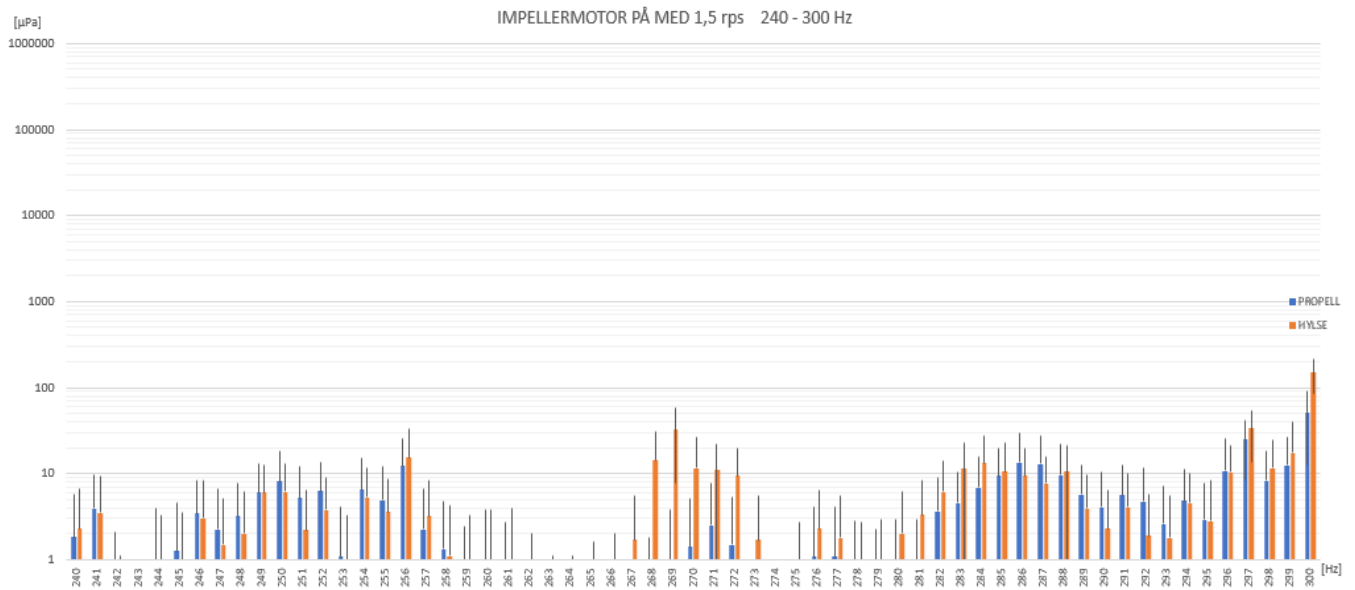


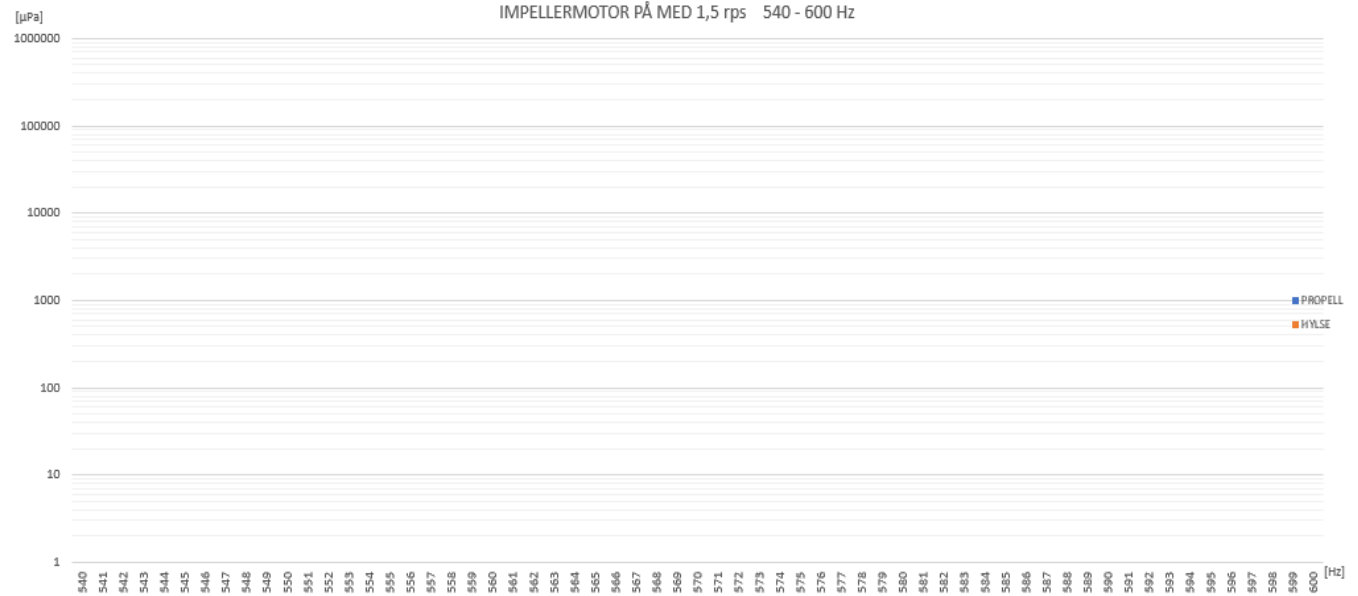
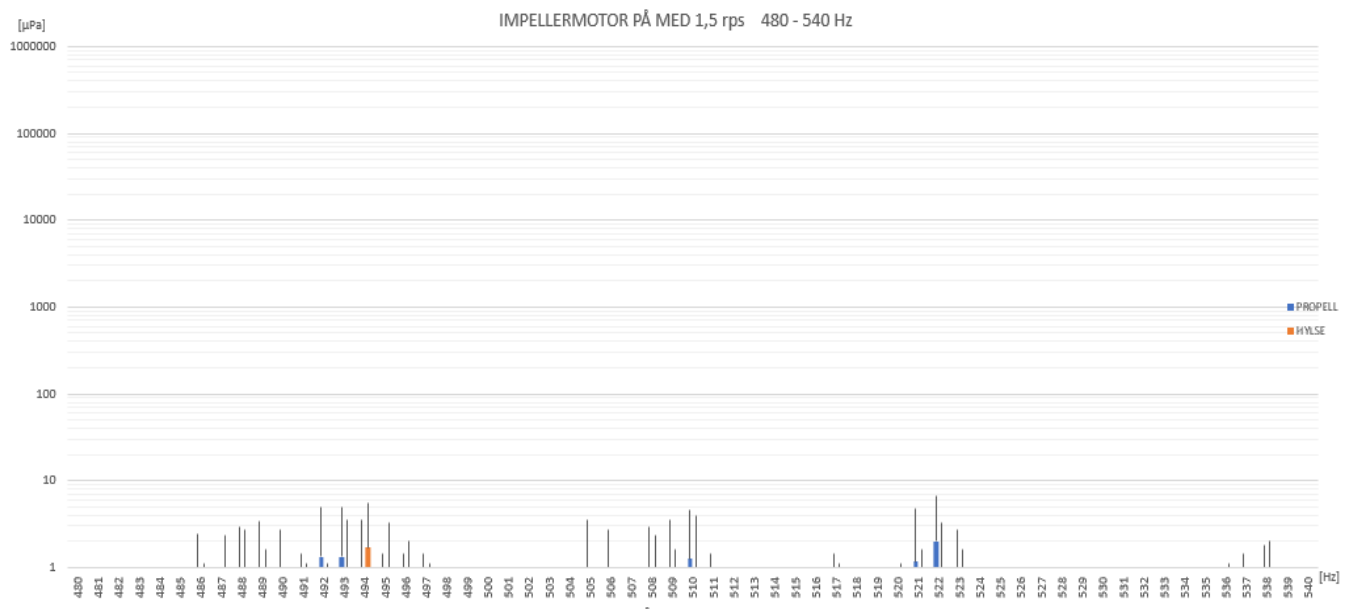
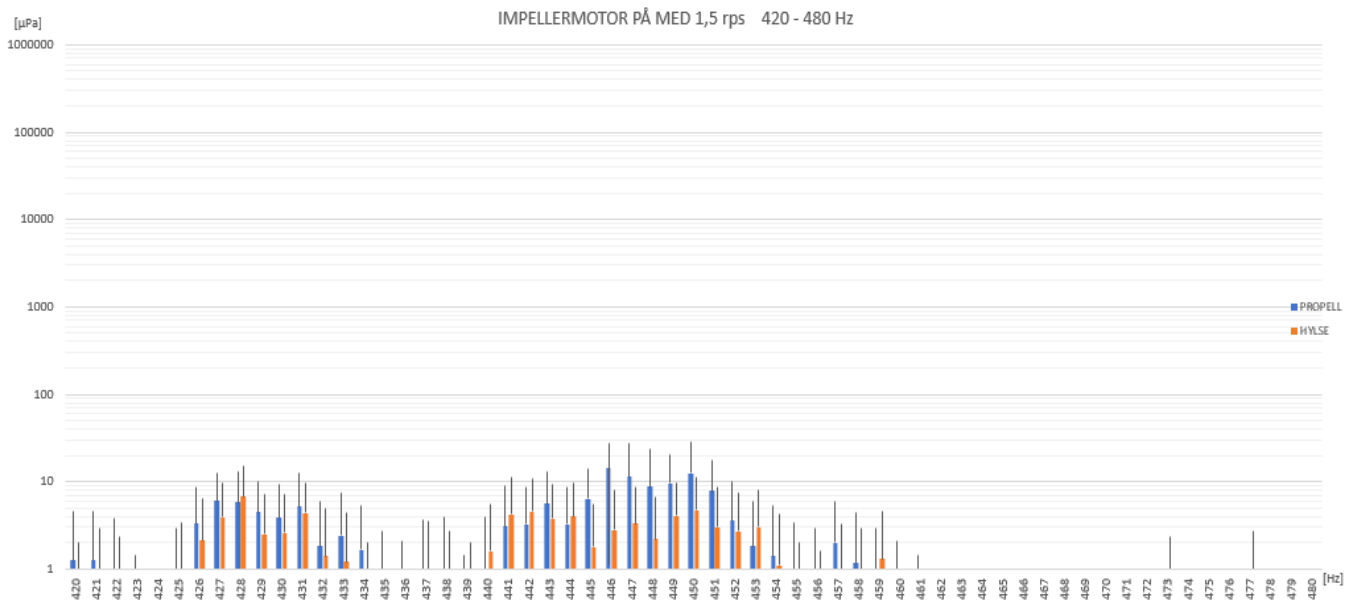


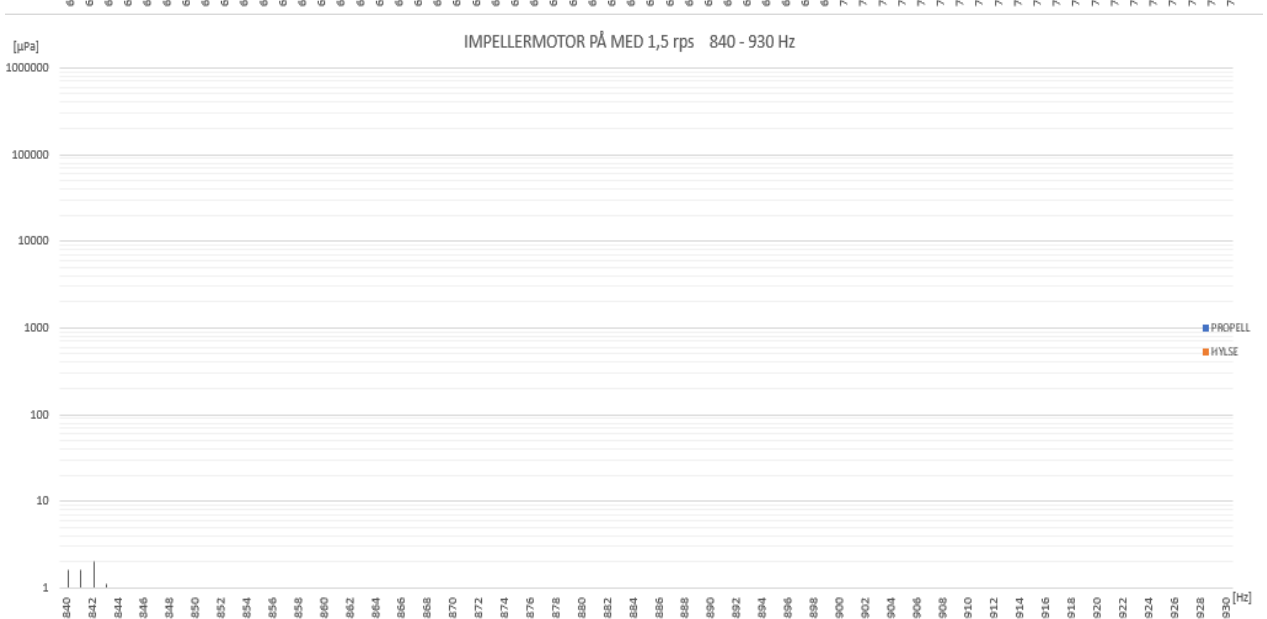
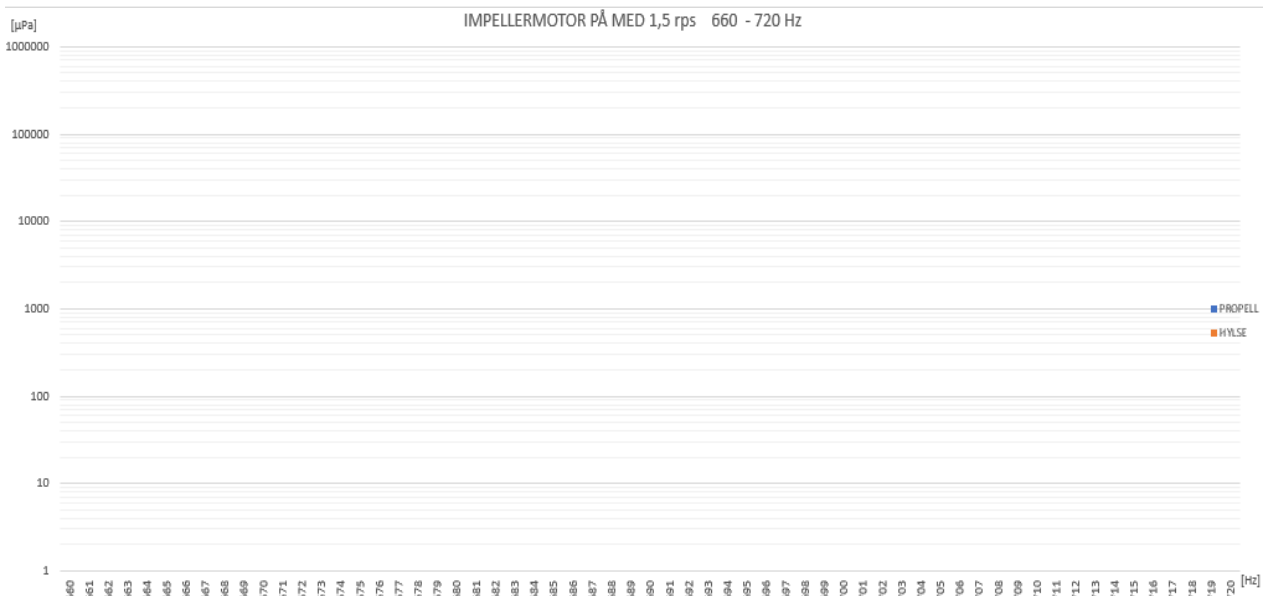
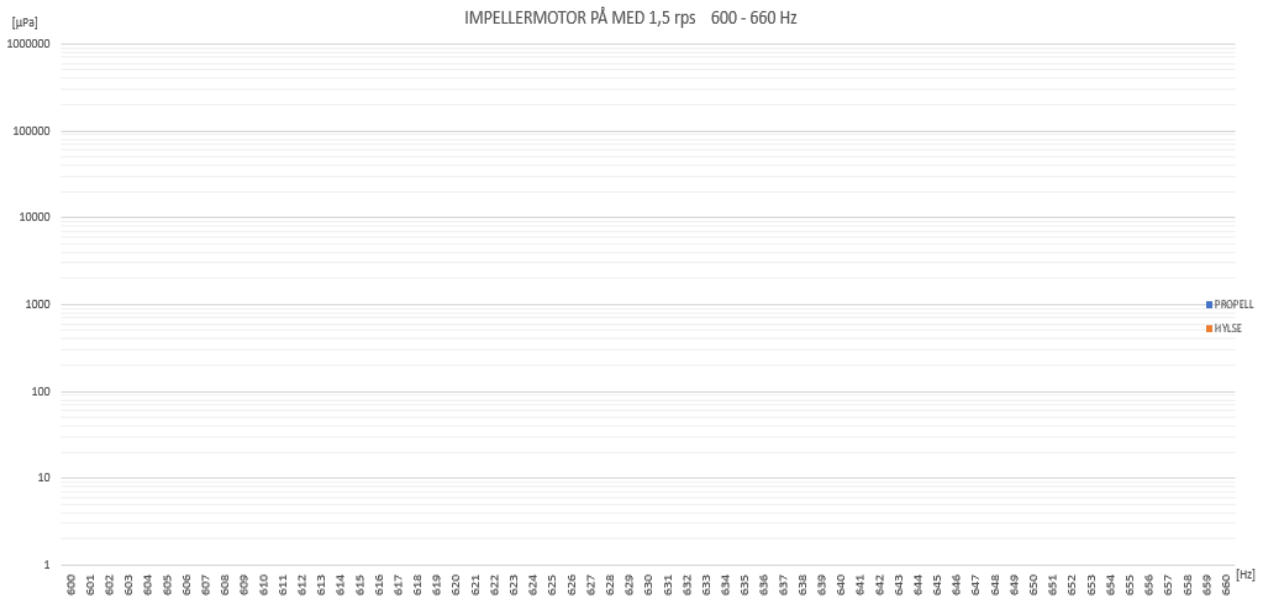
Scenario 13 og 33: Tabeller med Impellermotor satt 1,5rps. Med og uten propell



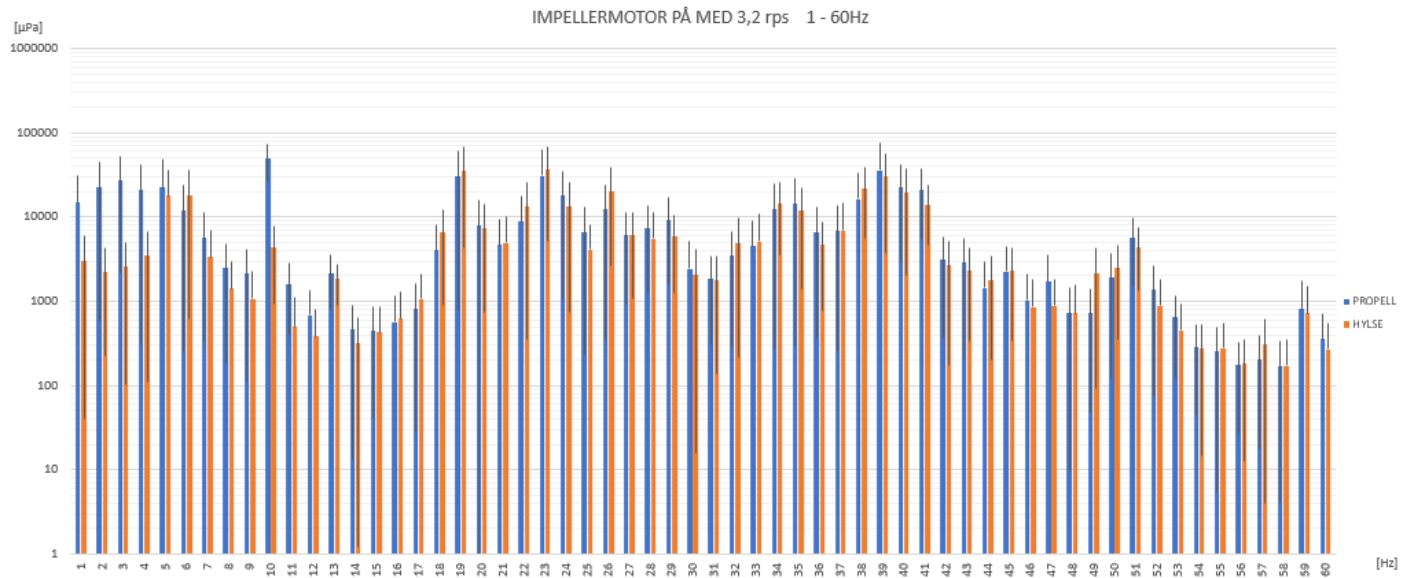
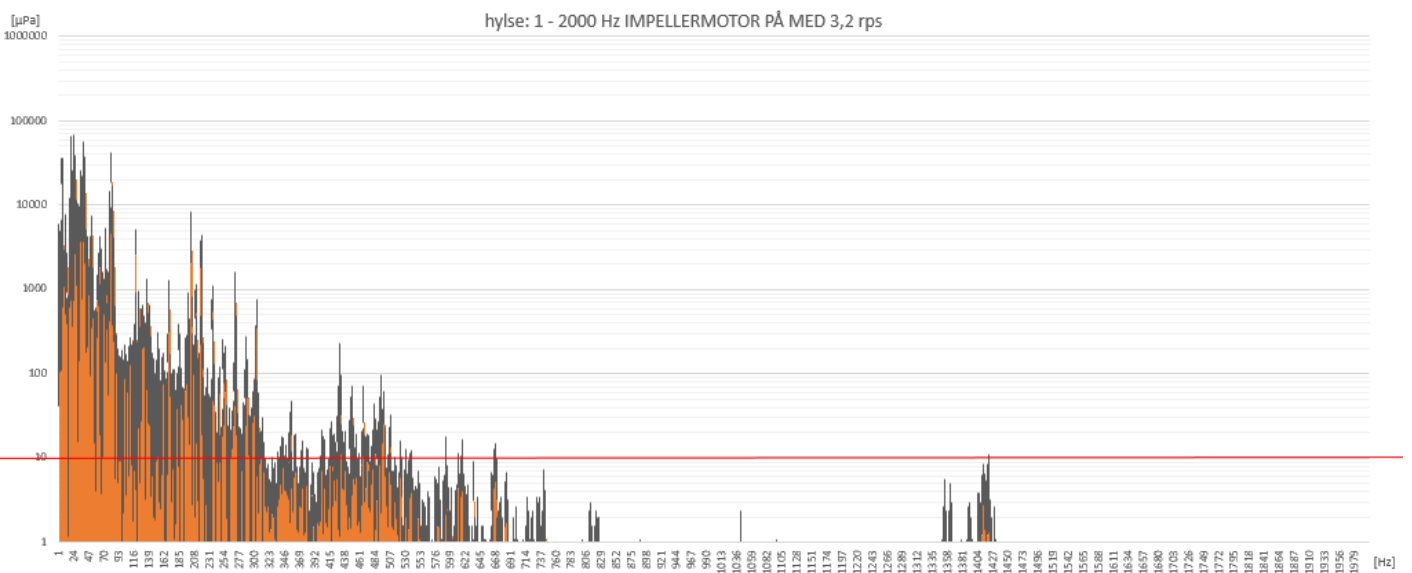
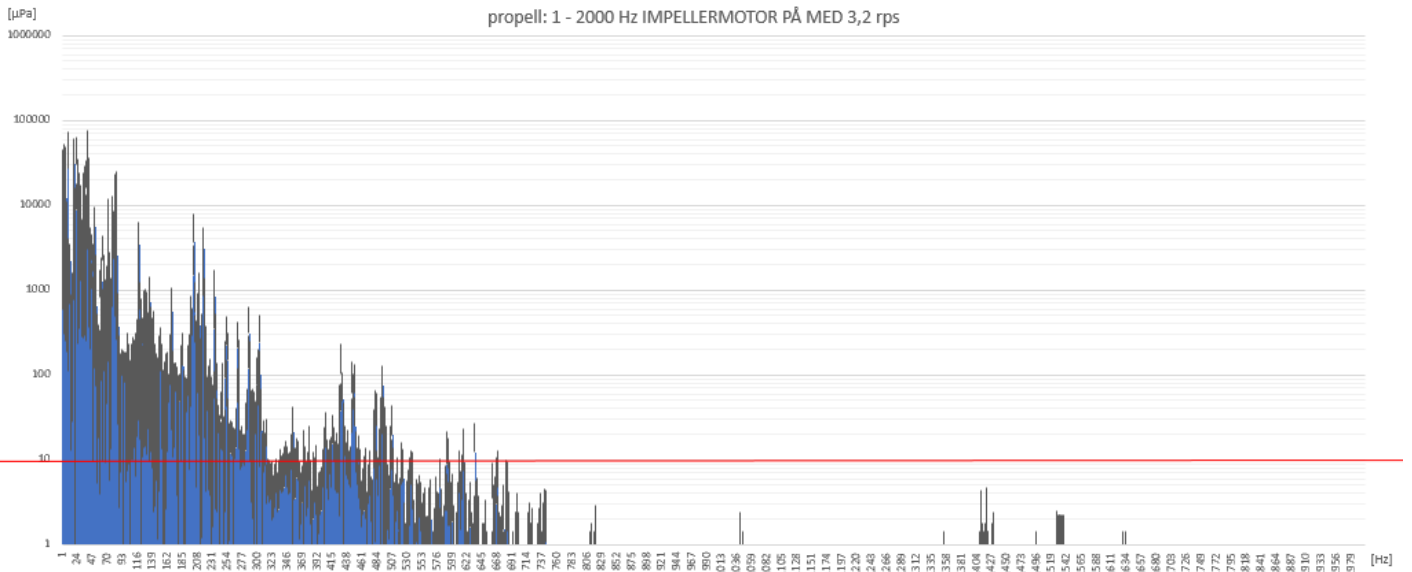


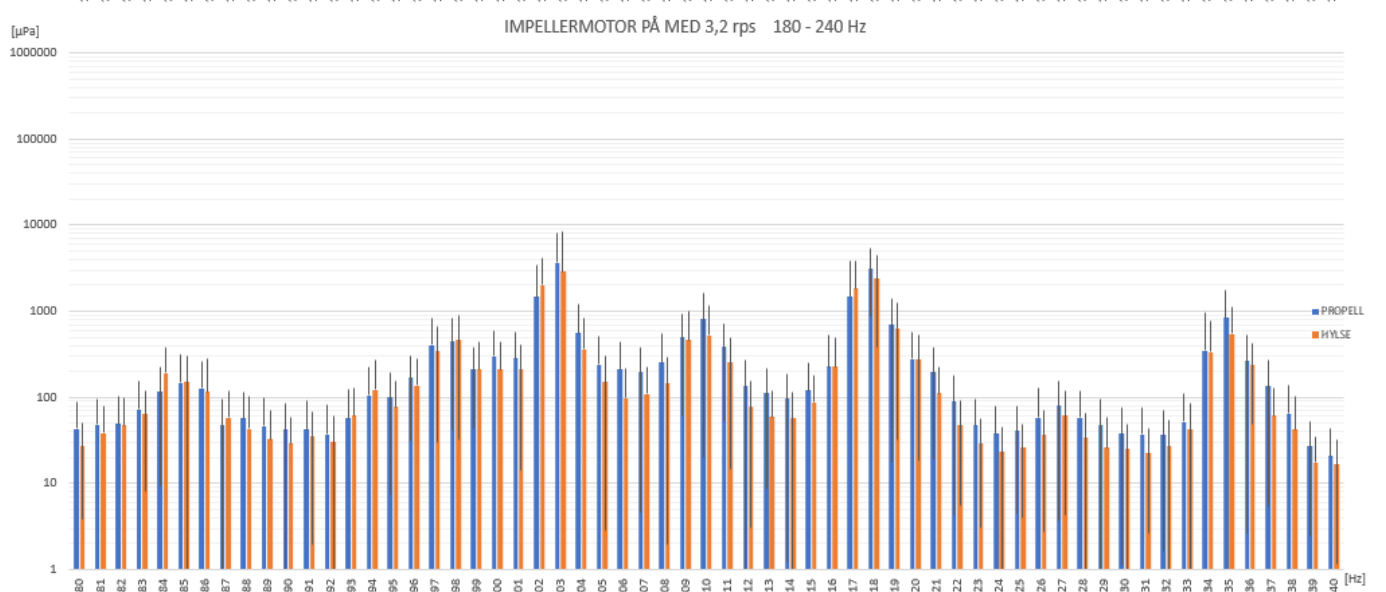
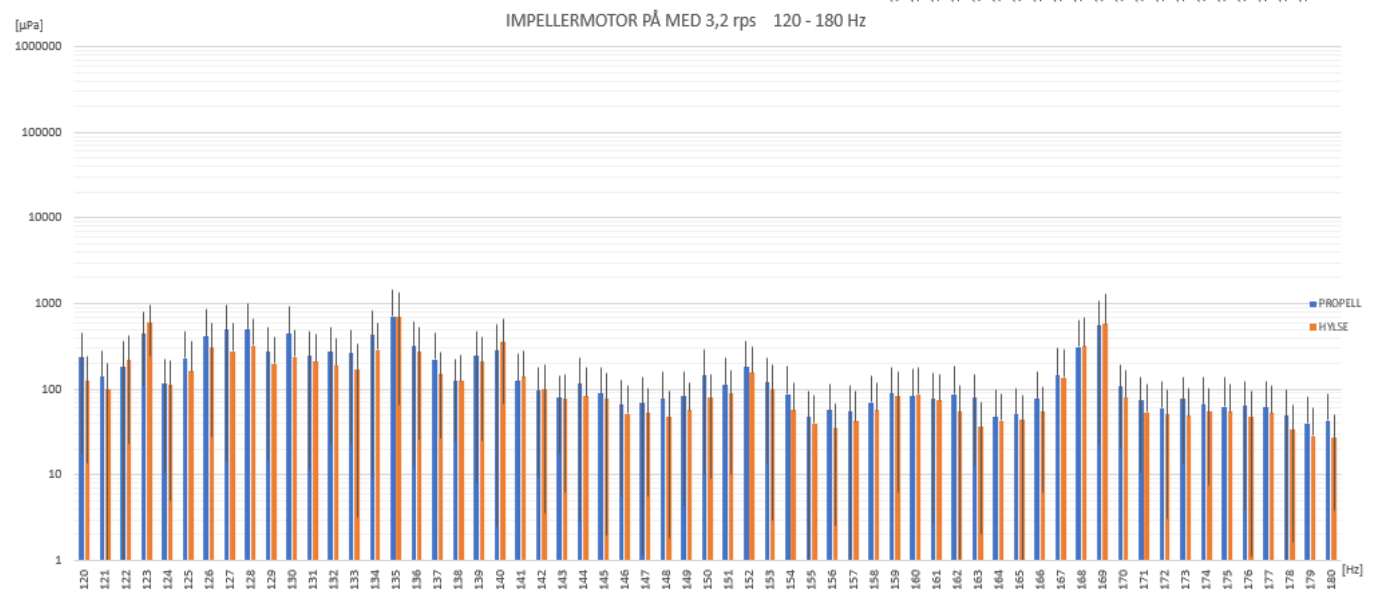
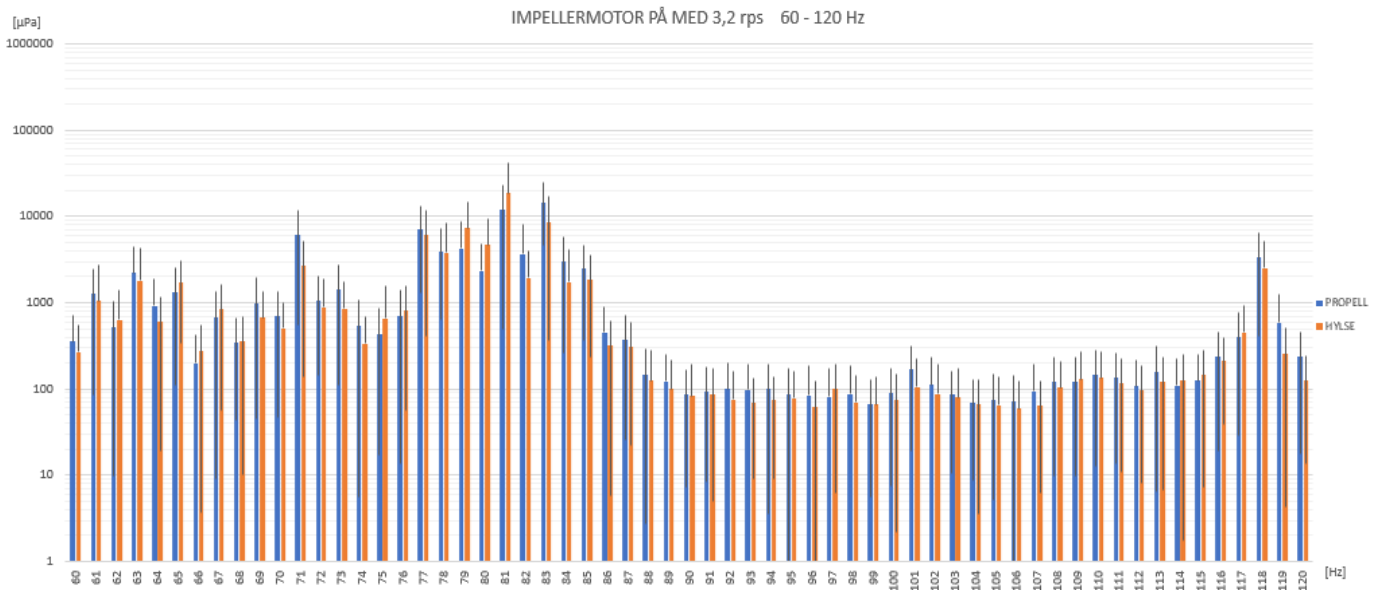


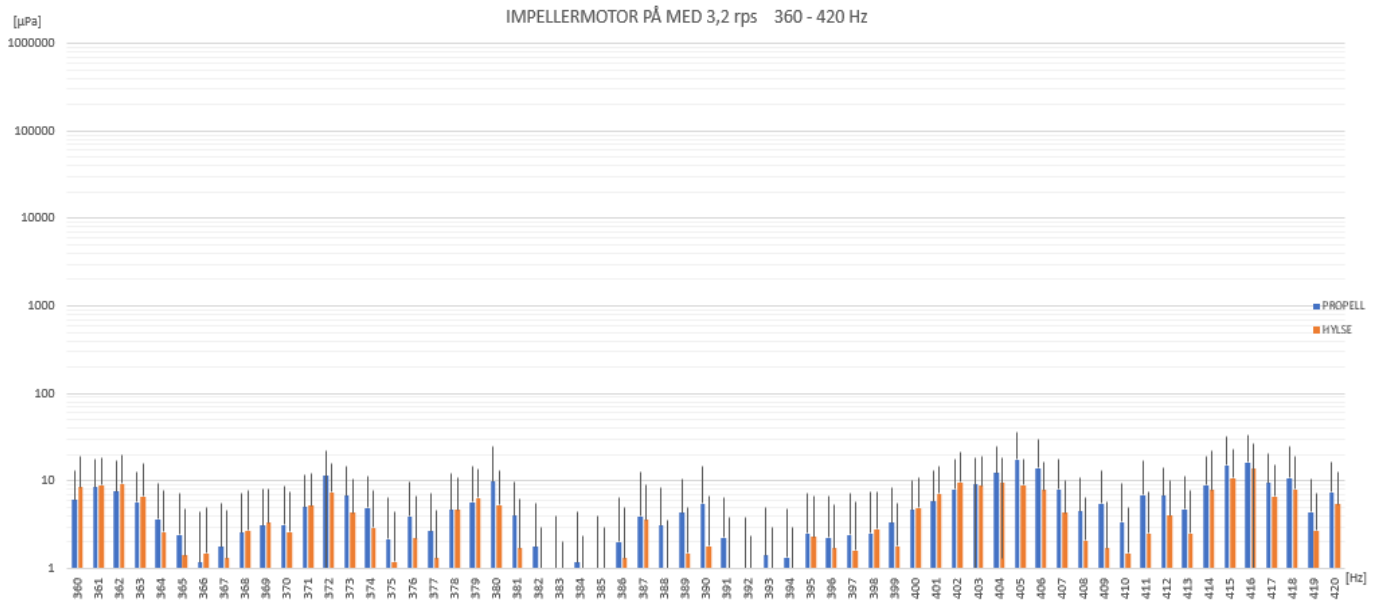
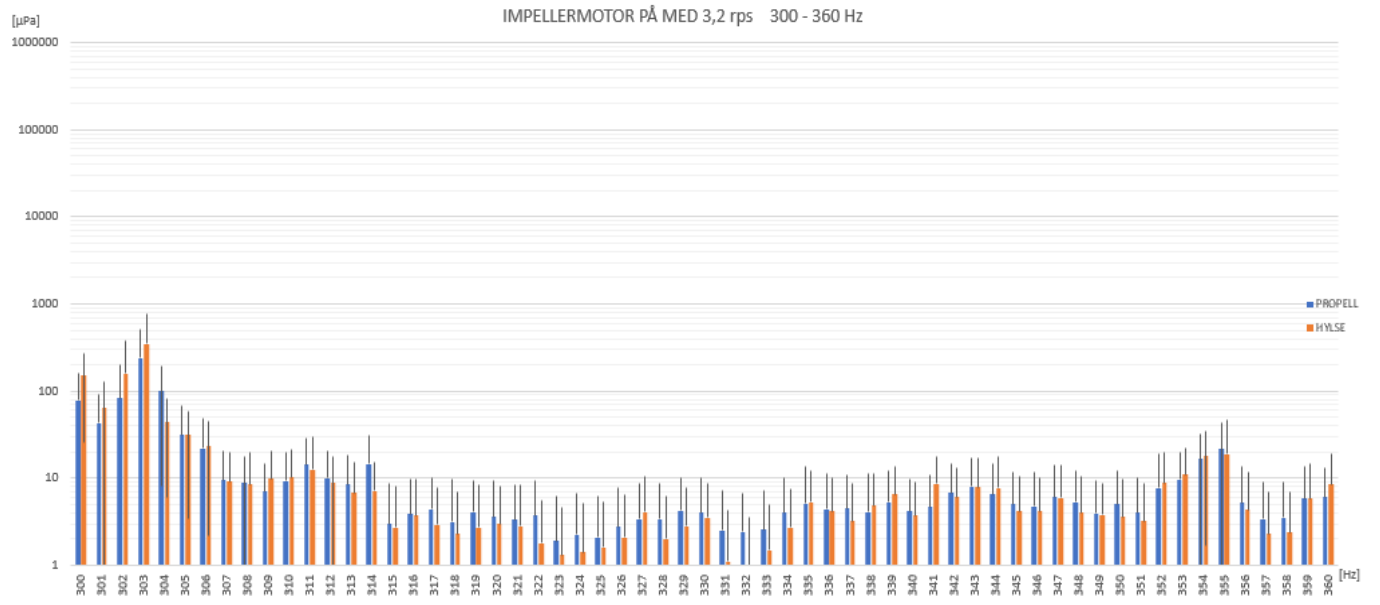
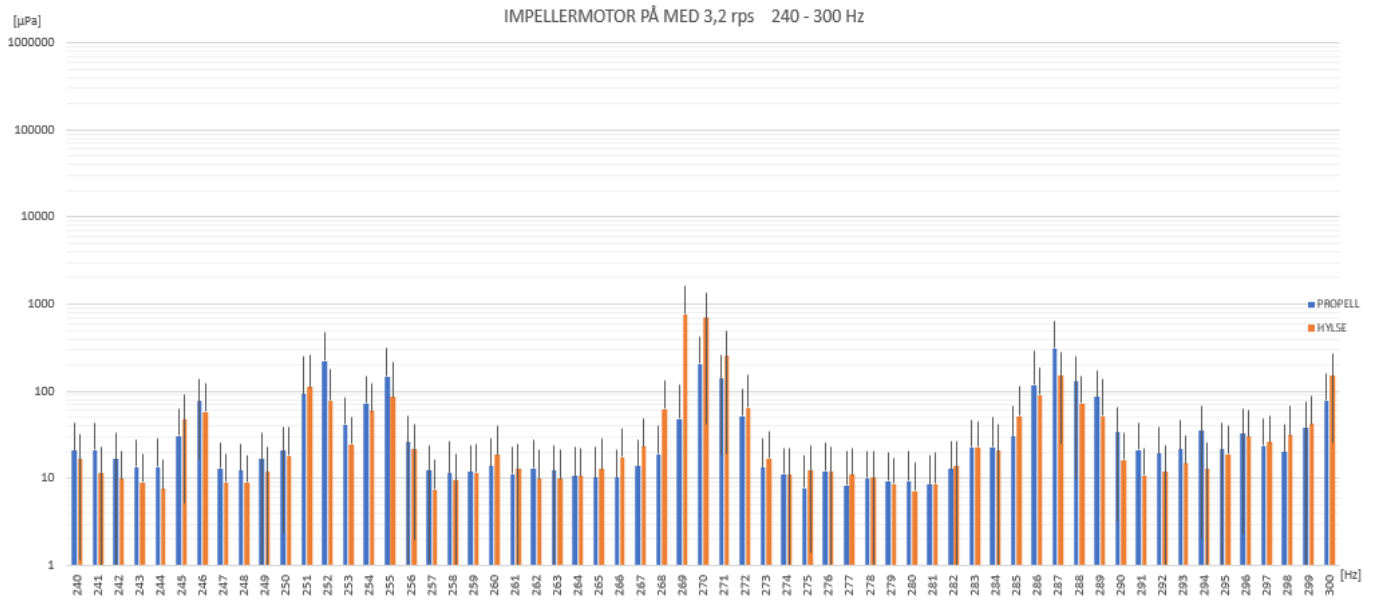


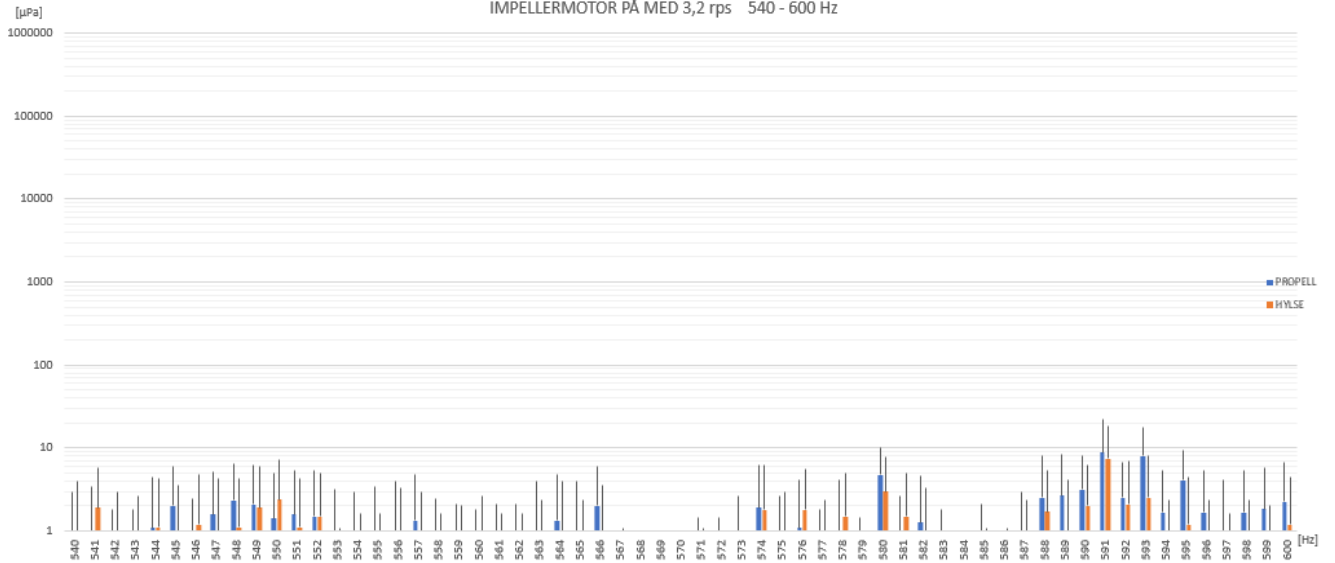
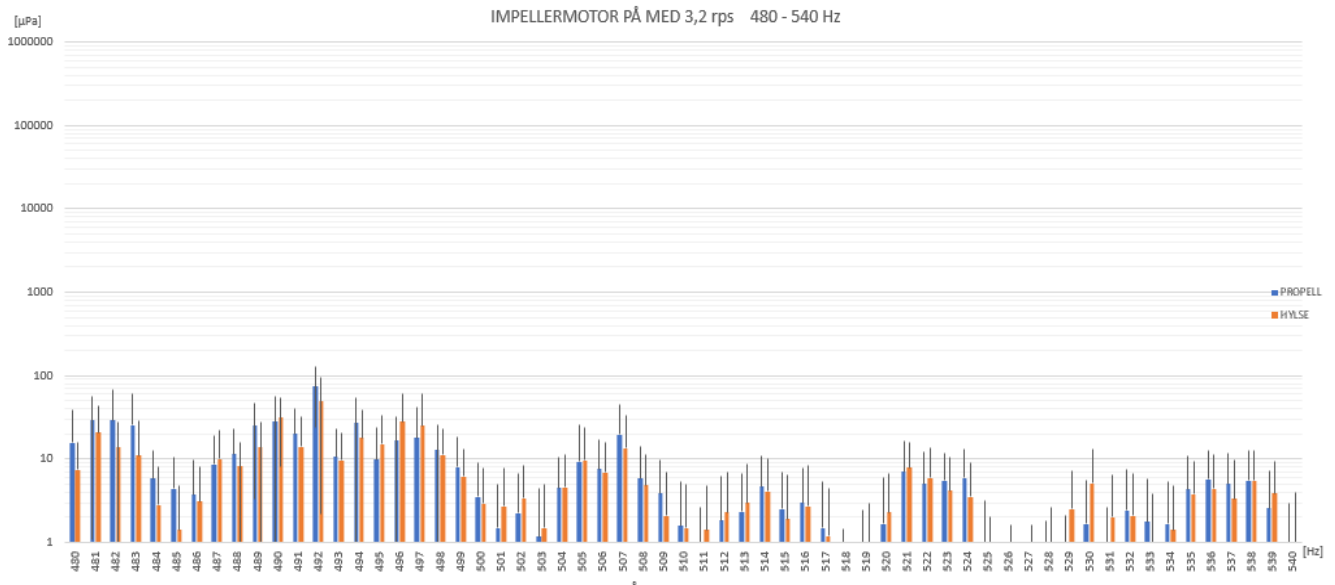
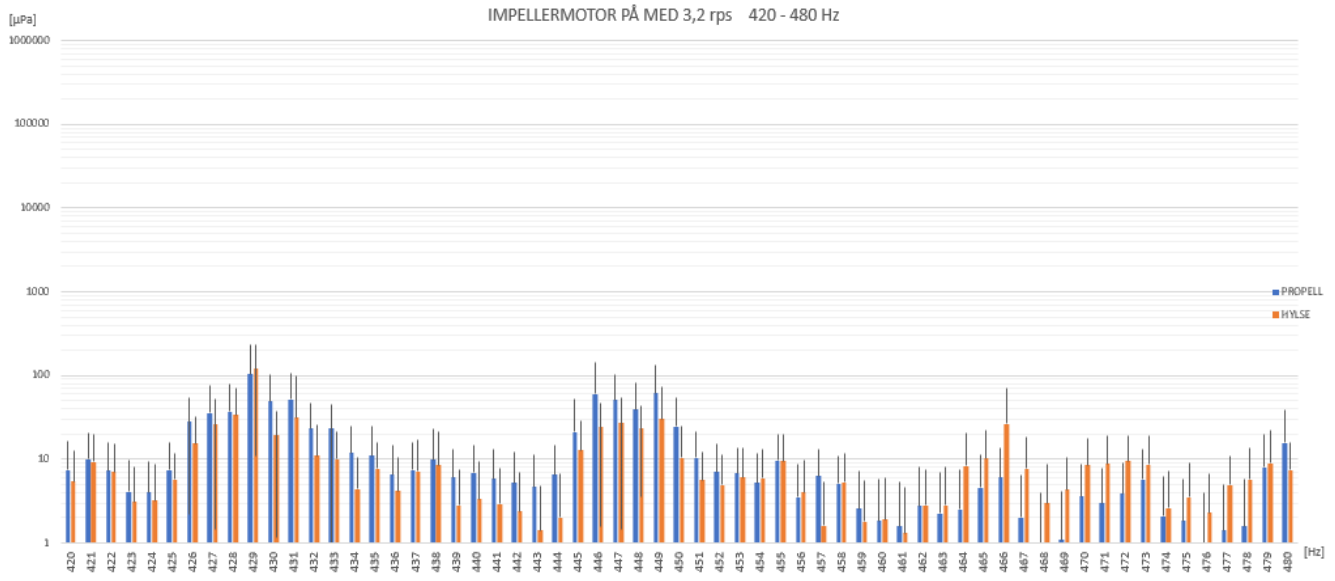


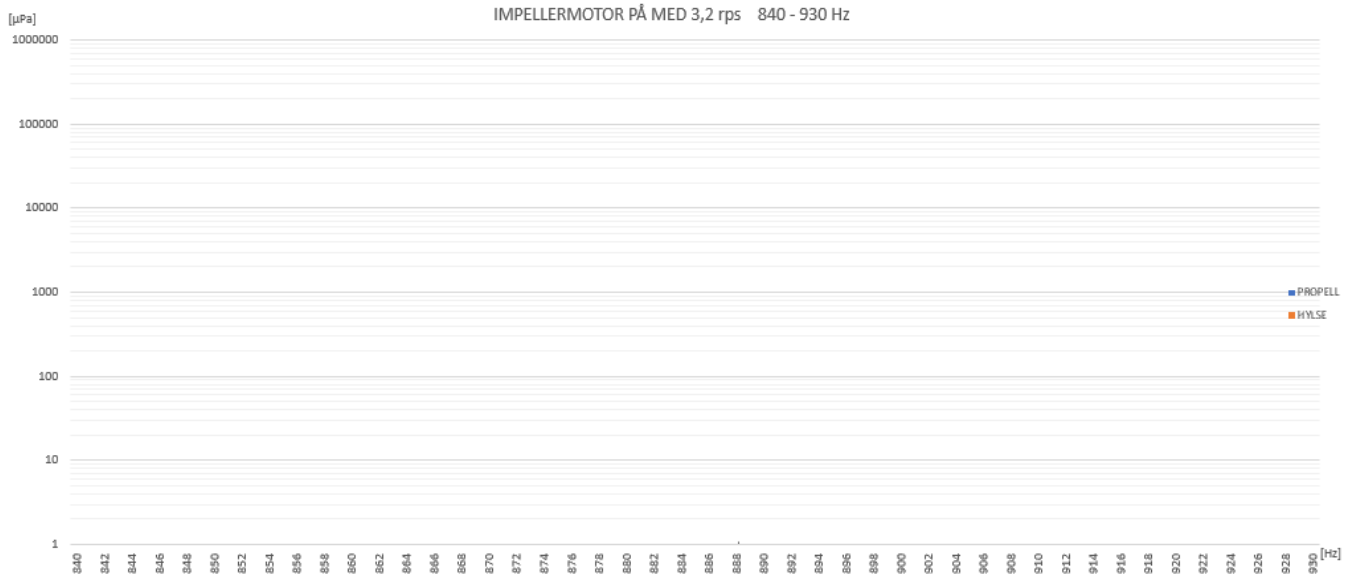
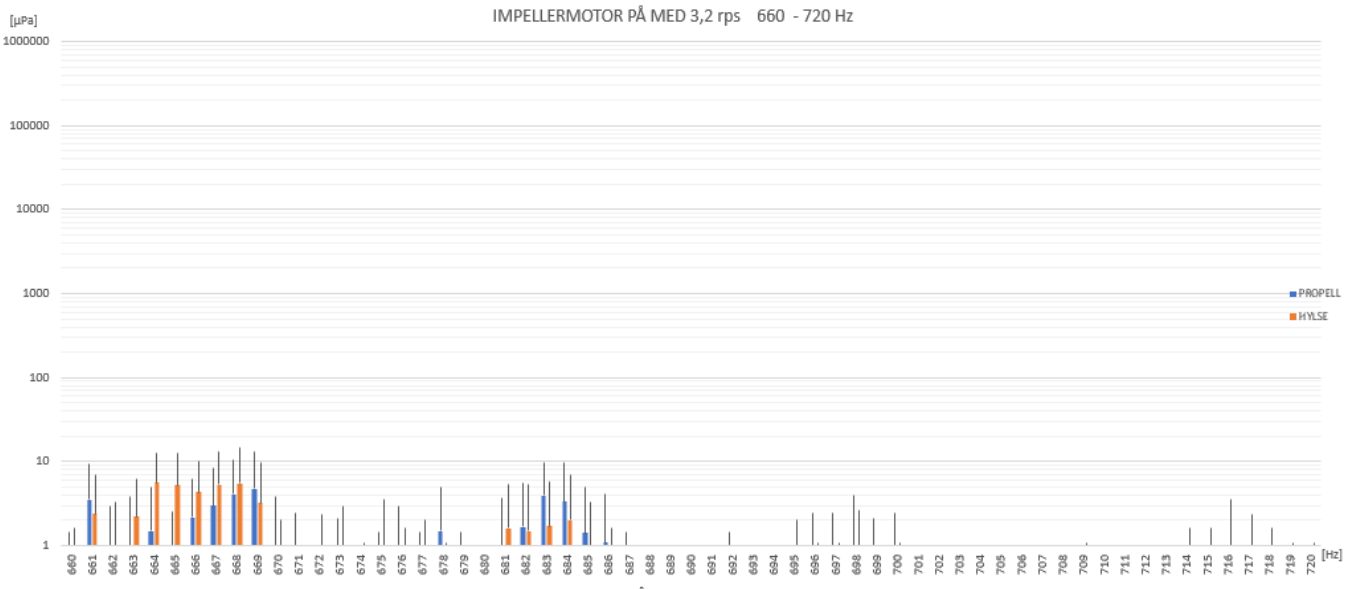
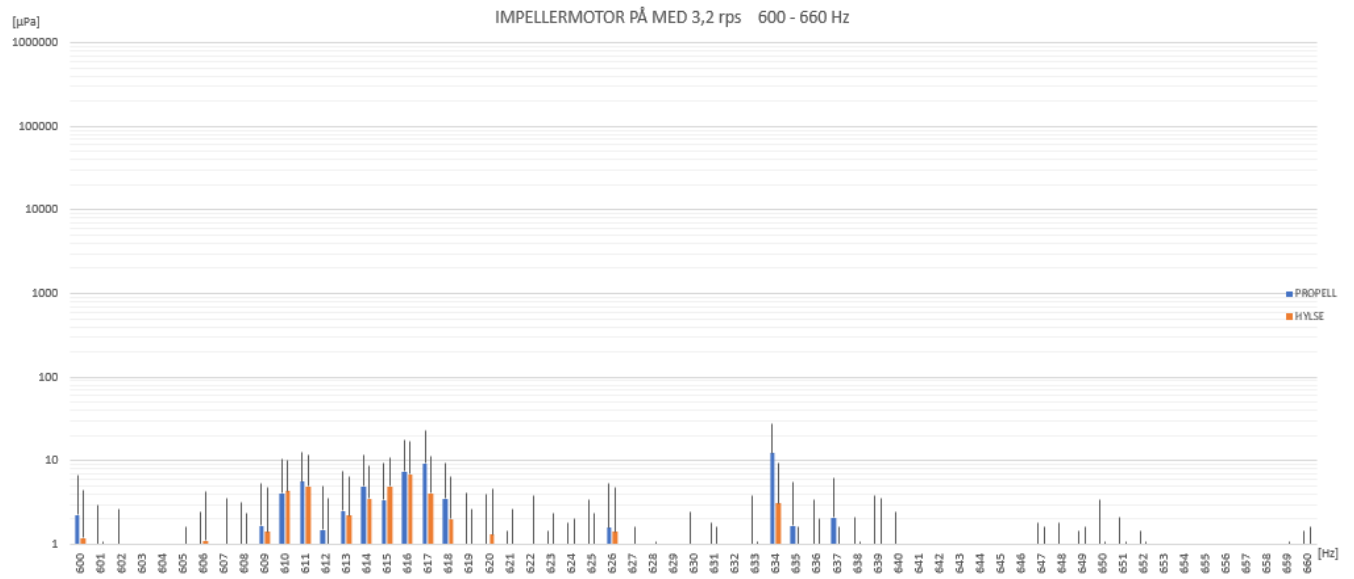
Scenario 14 og 34: Tabeller med impellermotor satt til 3,2rps. Med og uten propell (Ved propell montert er denne begynt å rotere pga. kraftig vannstrømning)



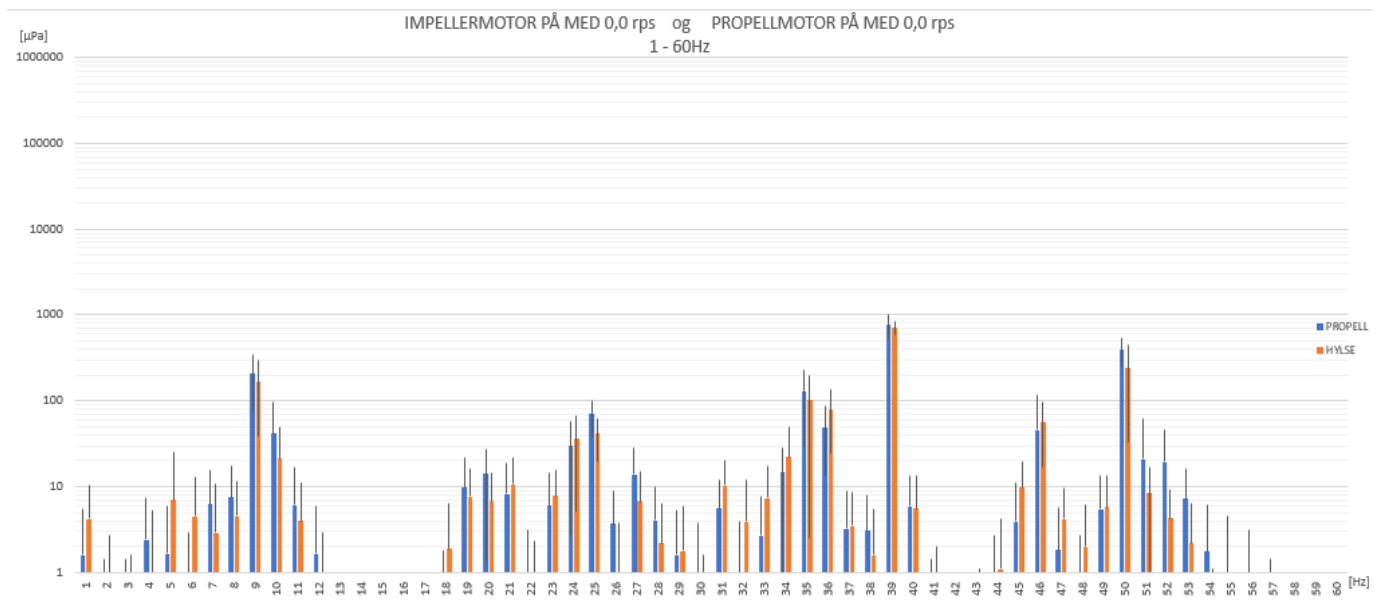
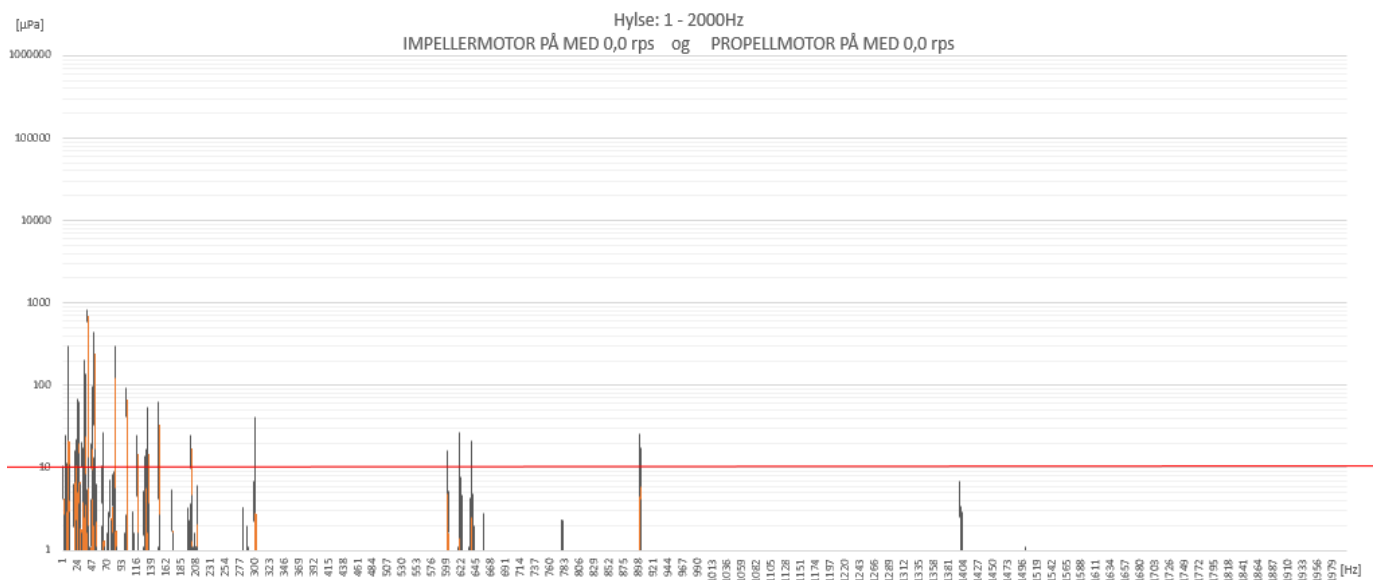
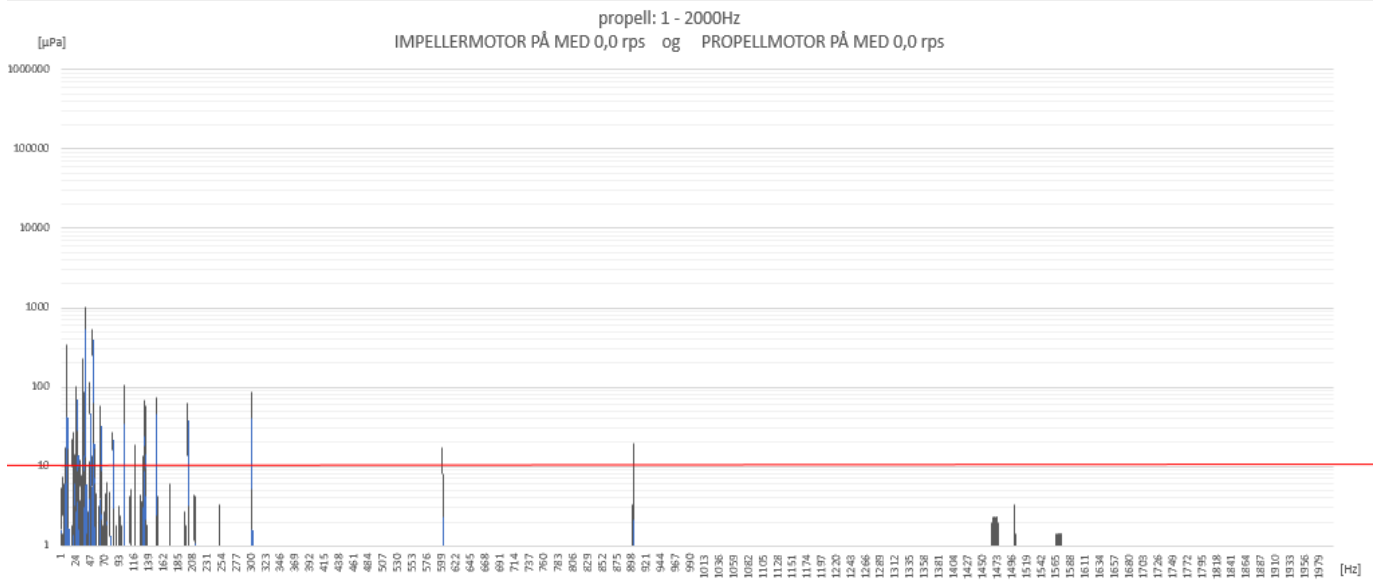


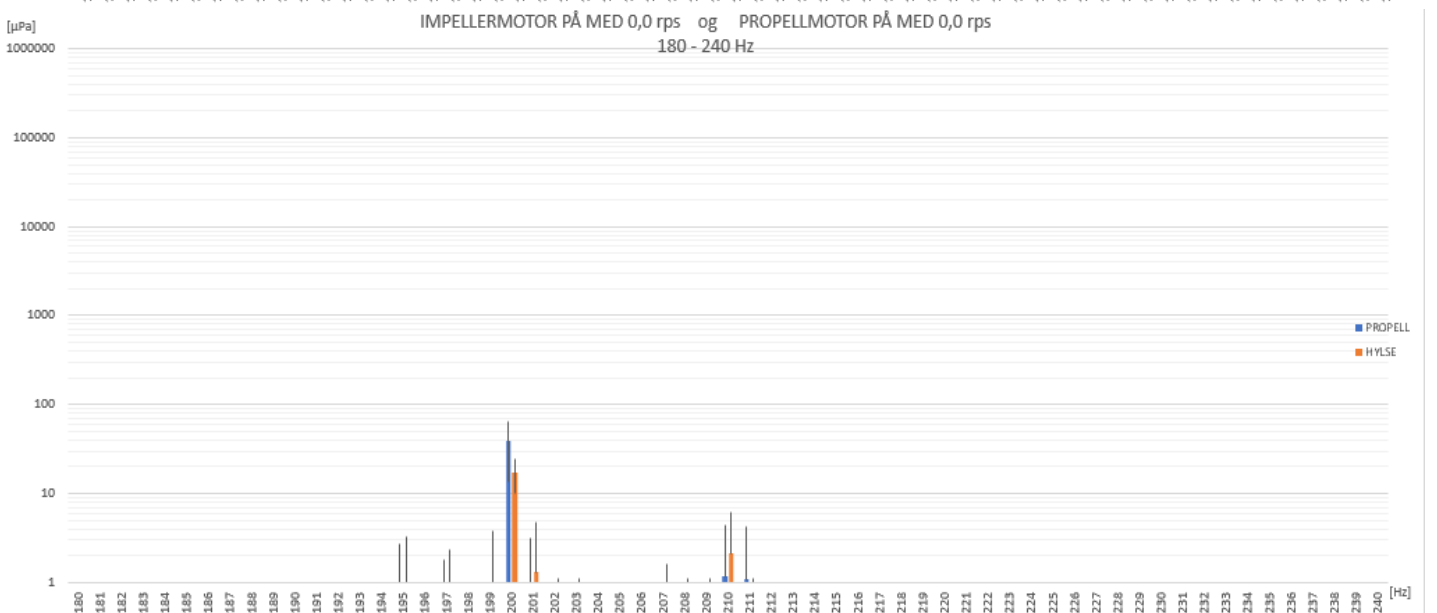
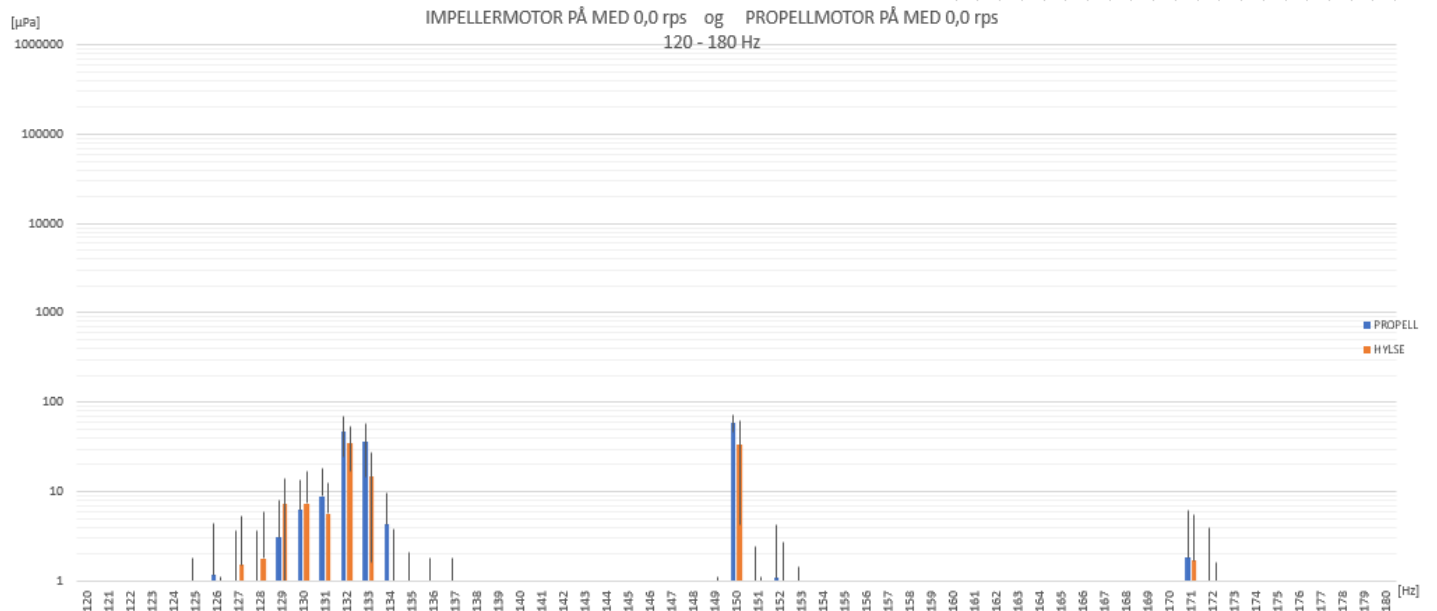
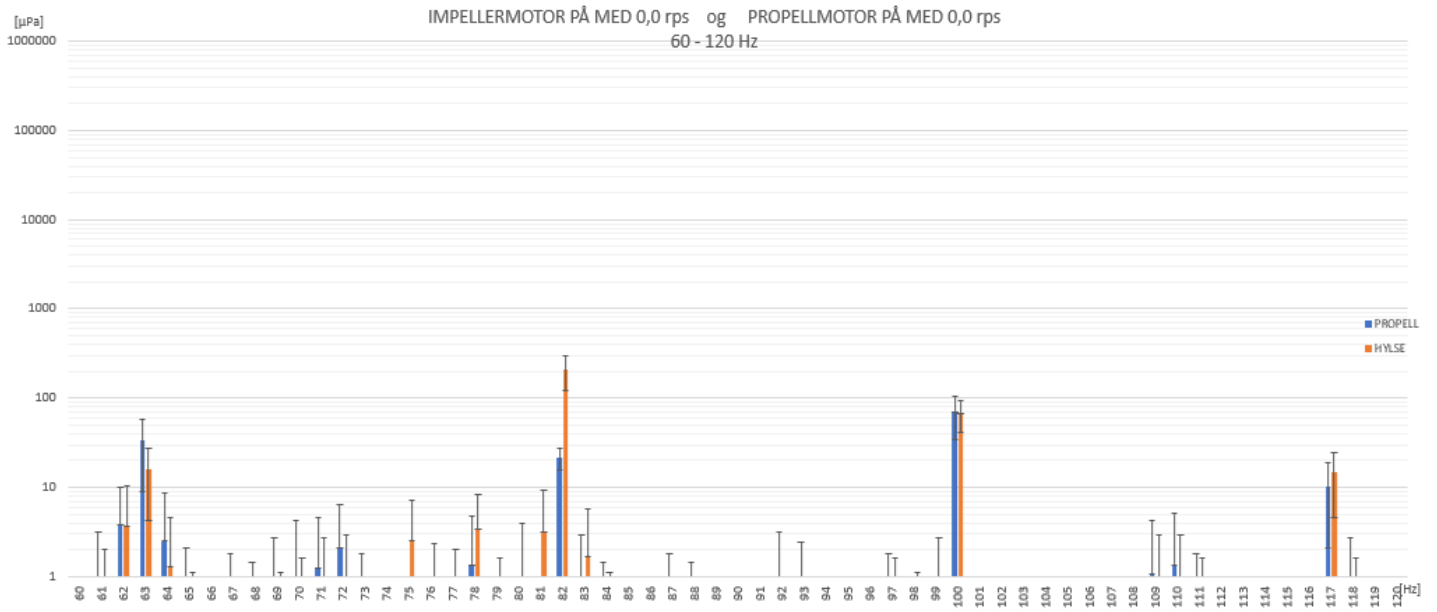


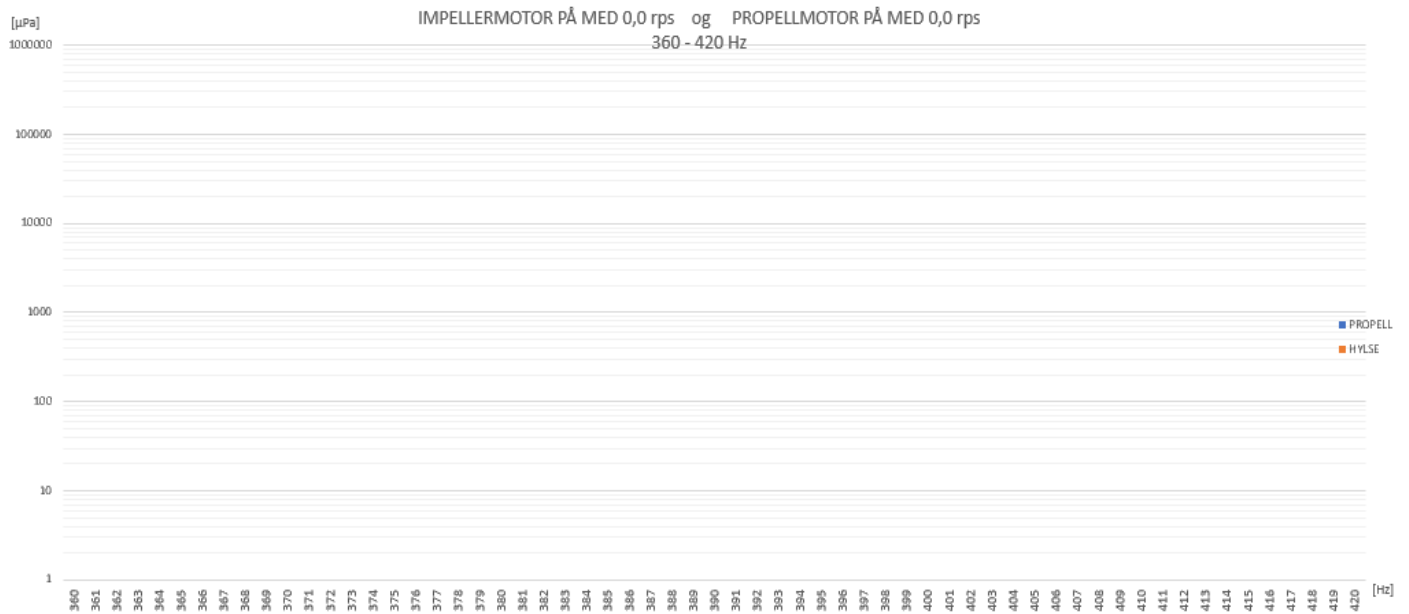
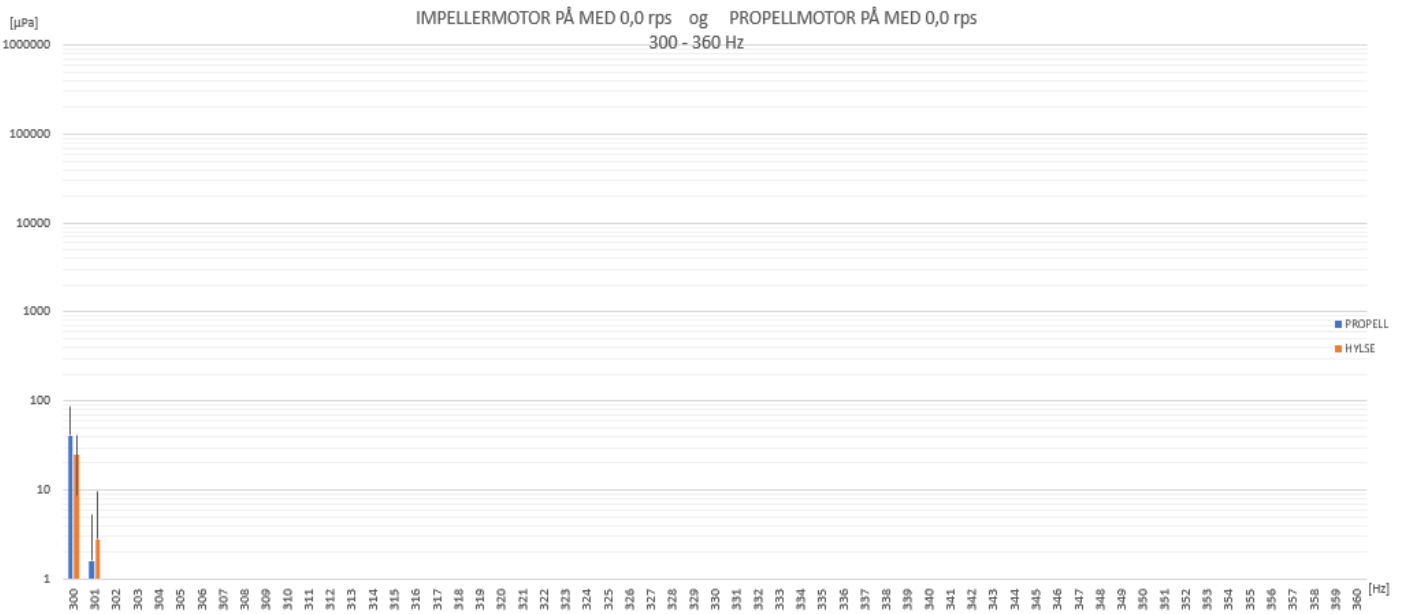
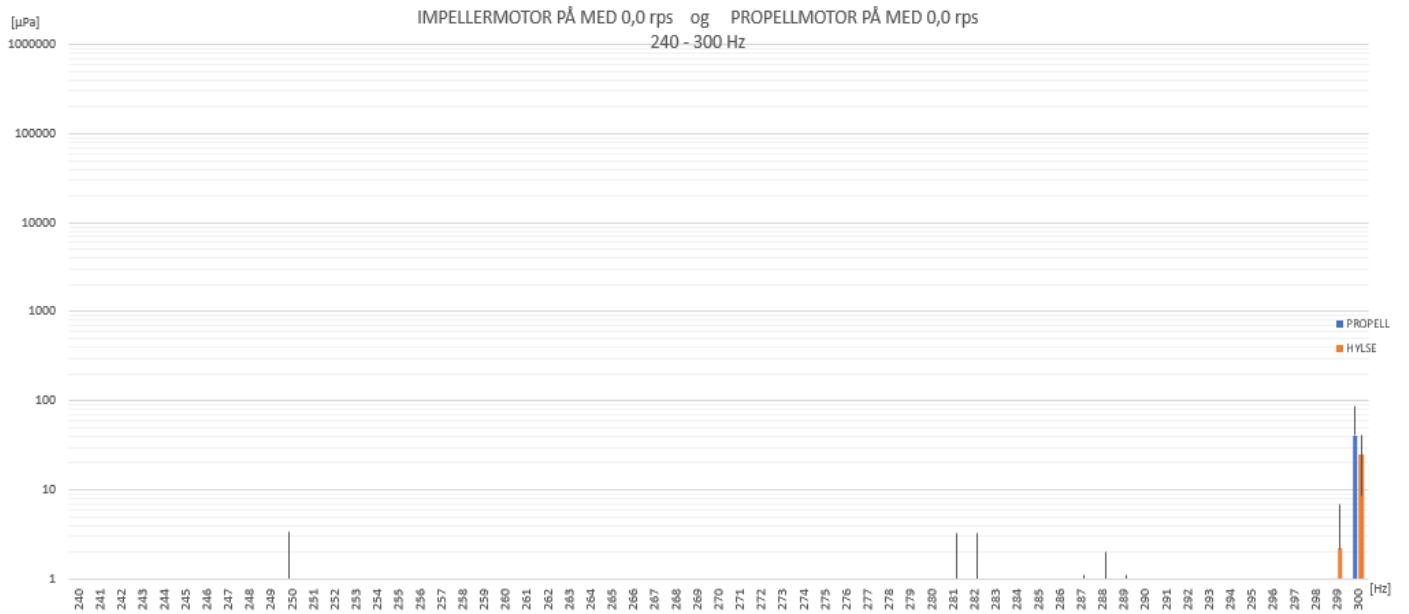


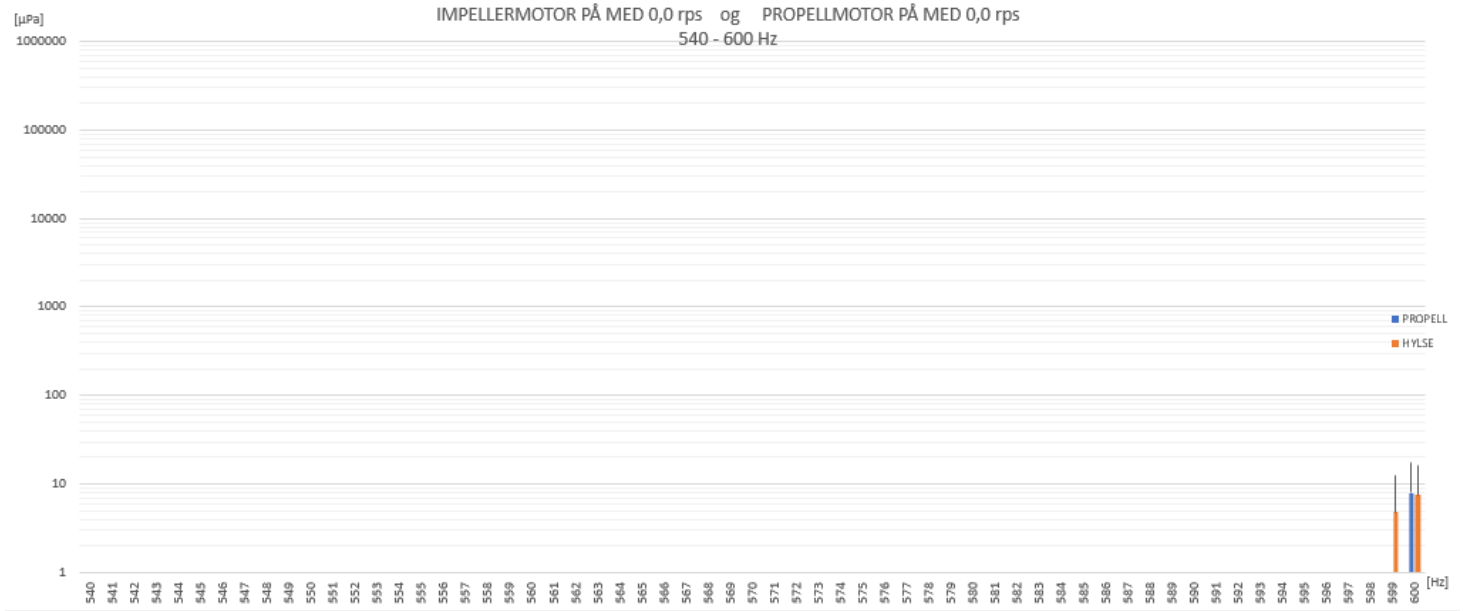
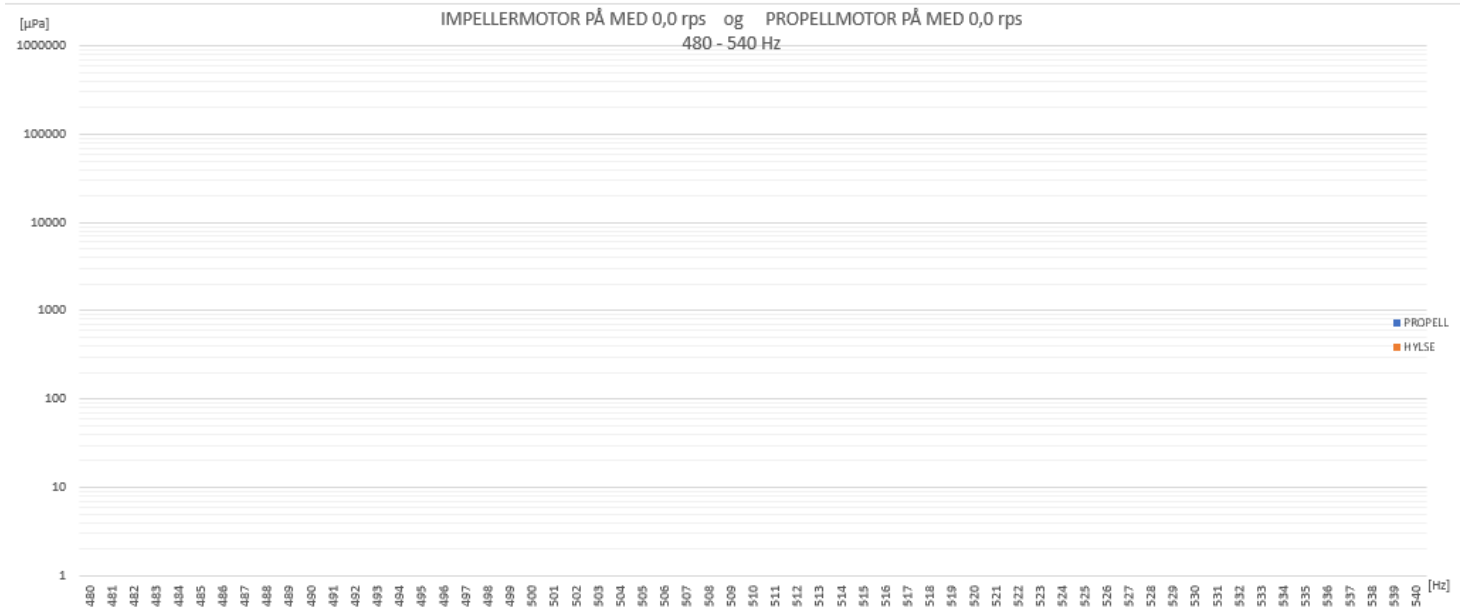
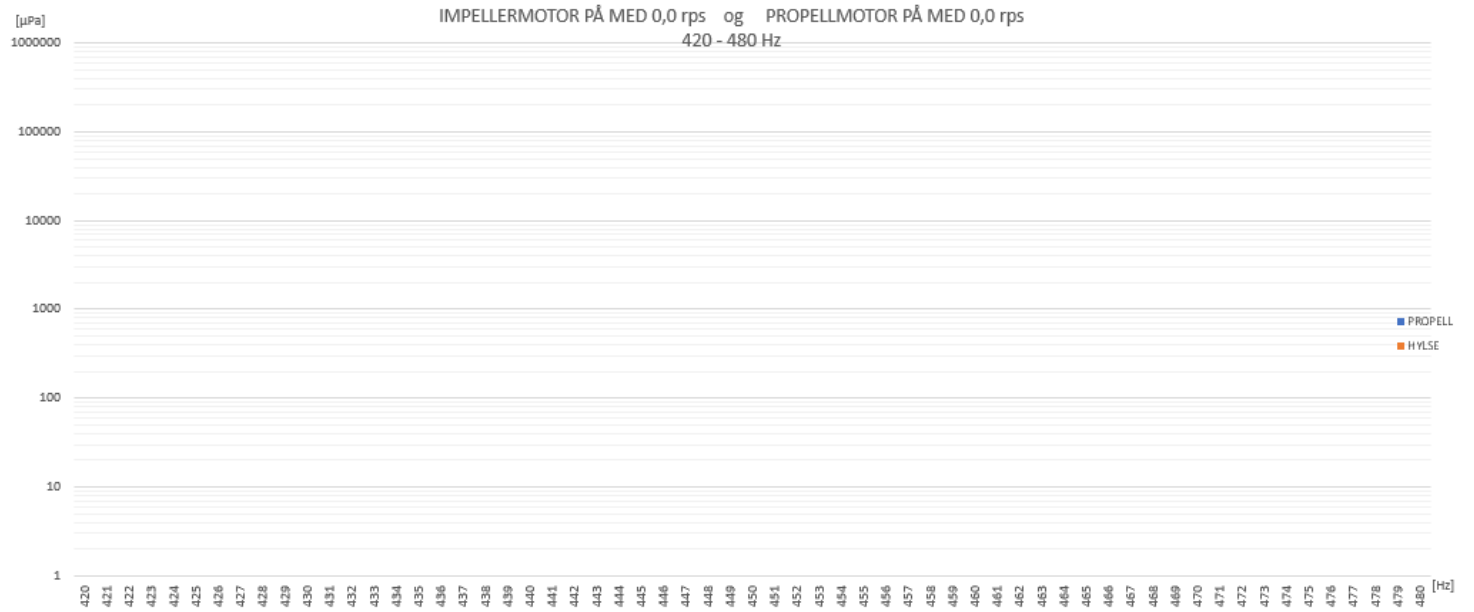


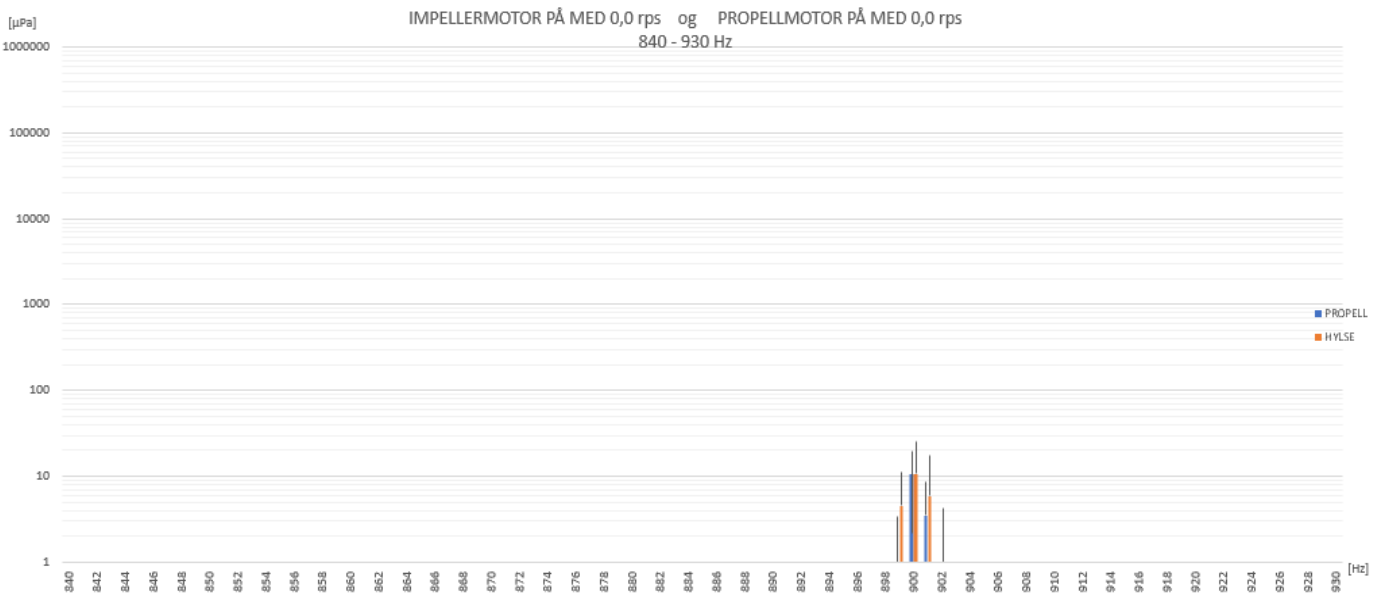
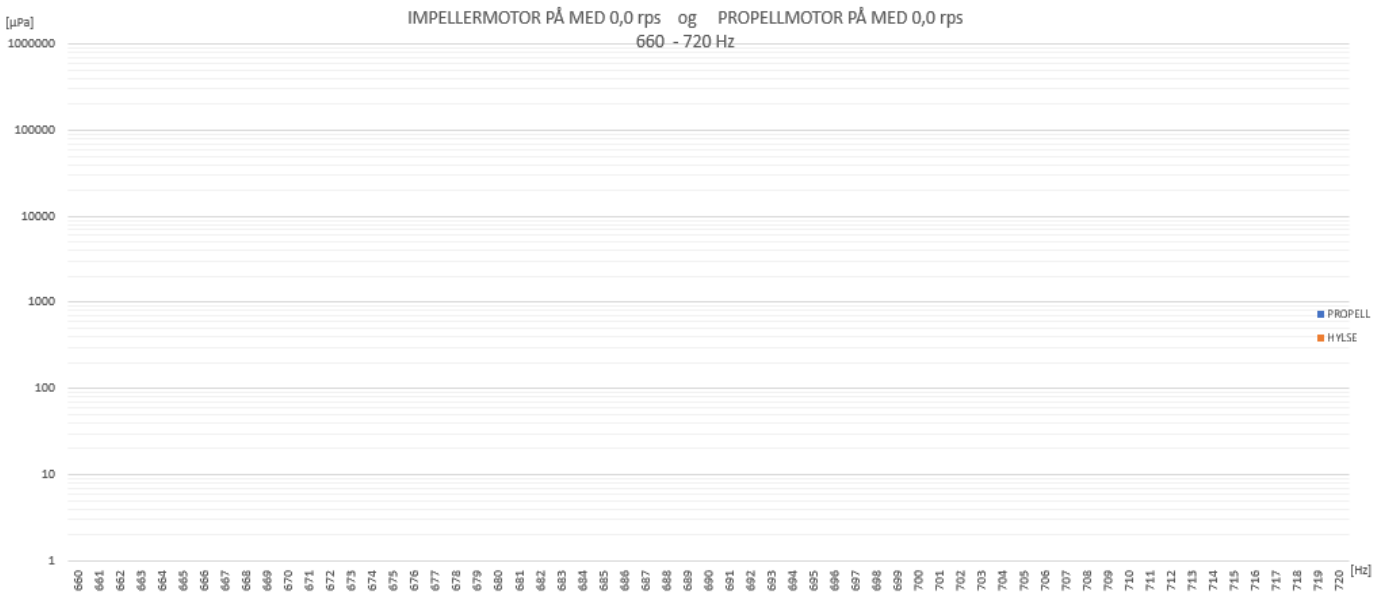
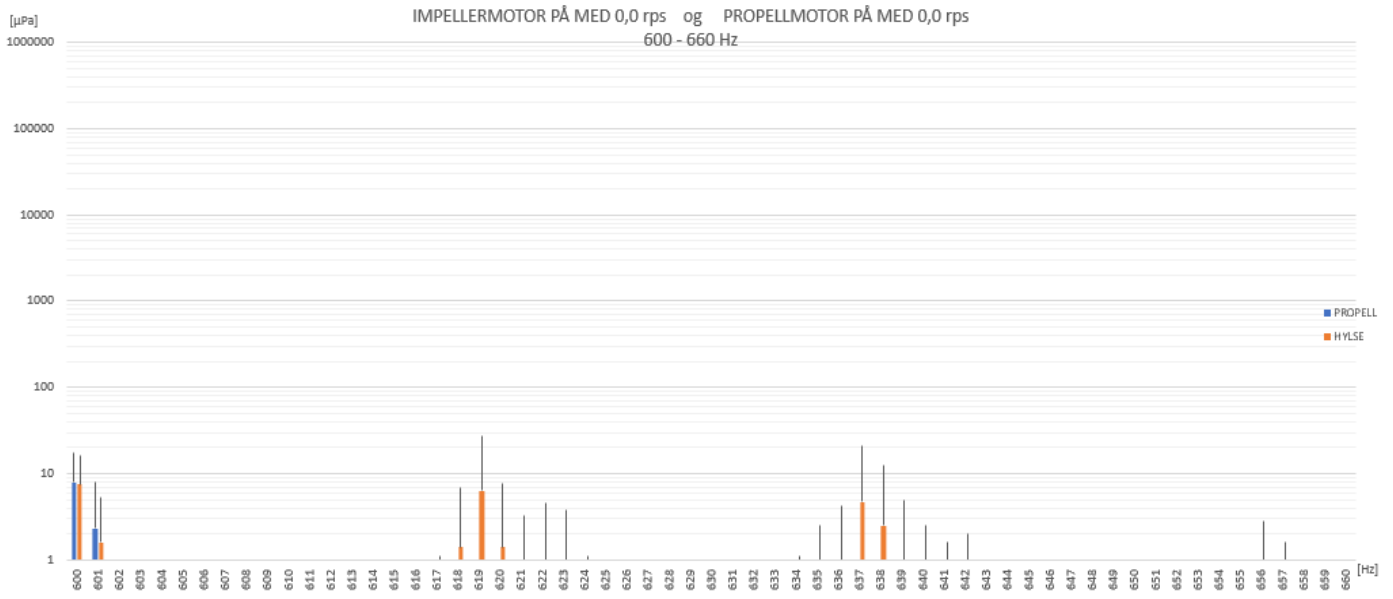
Scenario 15 og 35: Tabeller med propellmotor og impellermotor på. Med og uten propell



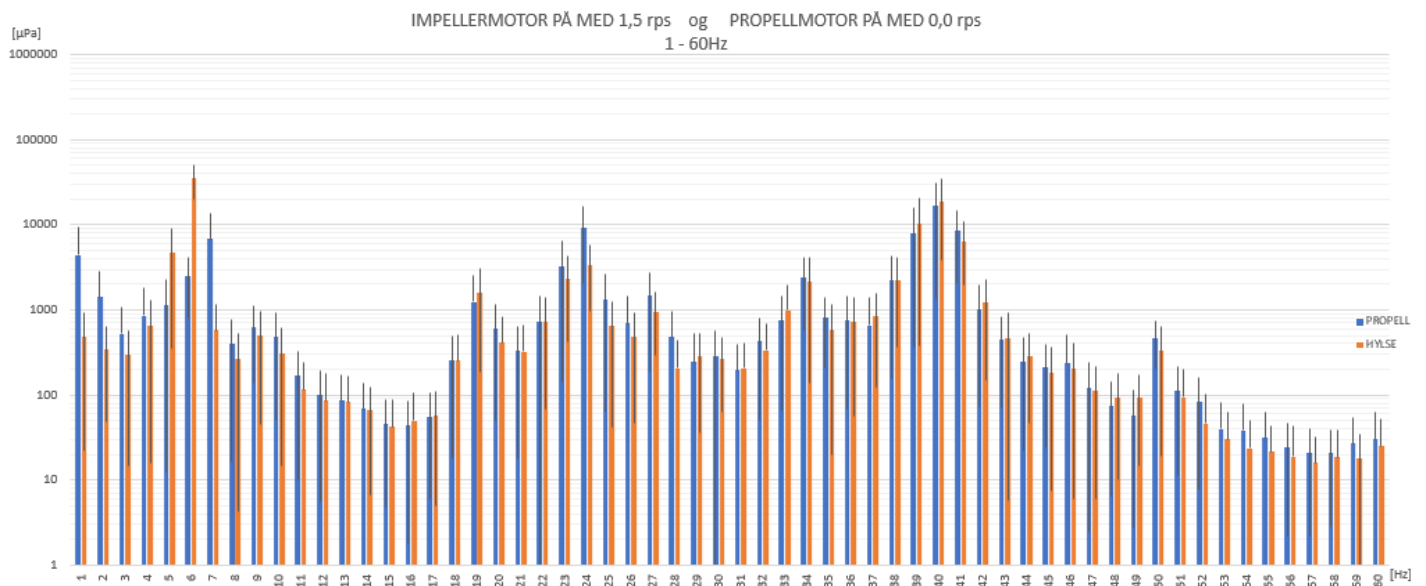
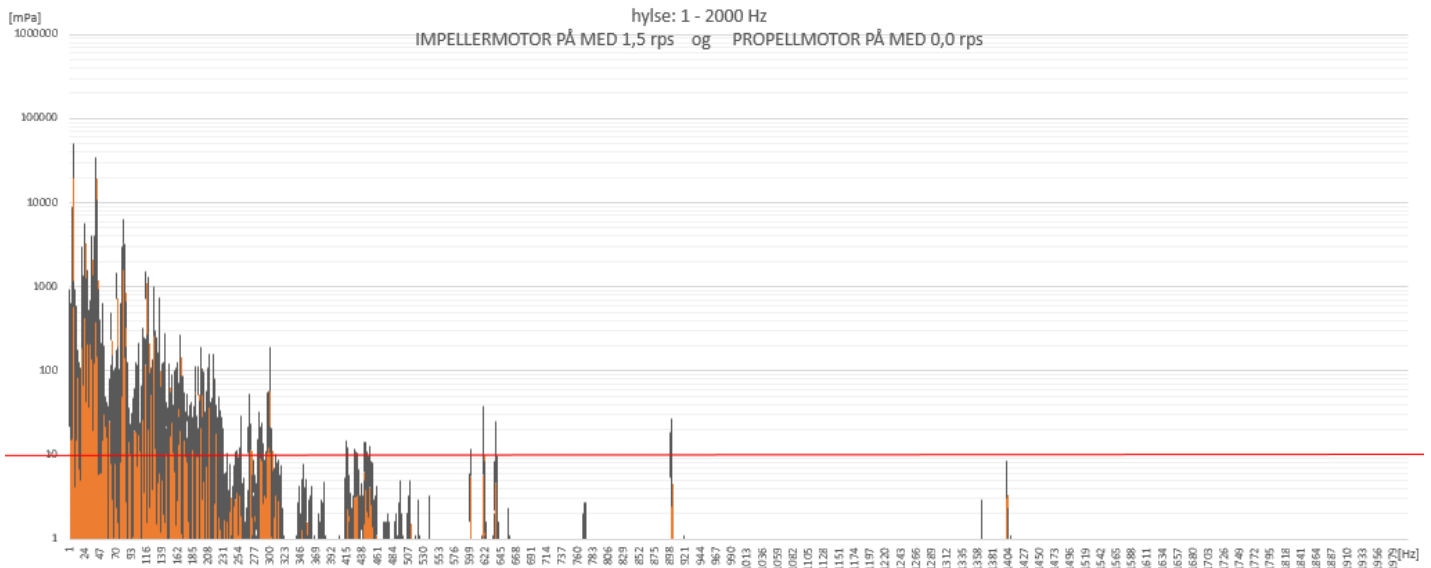
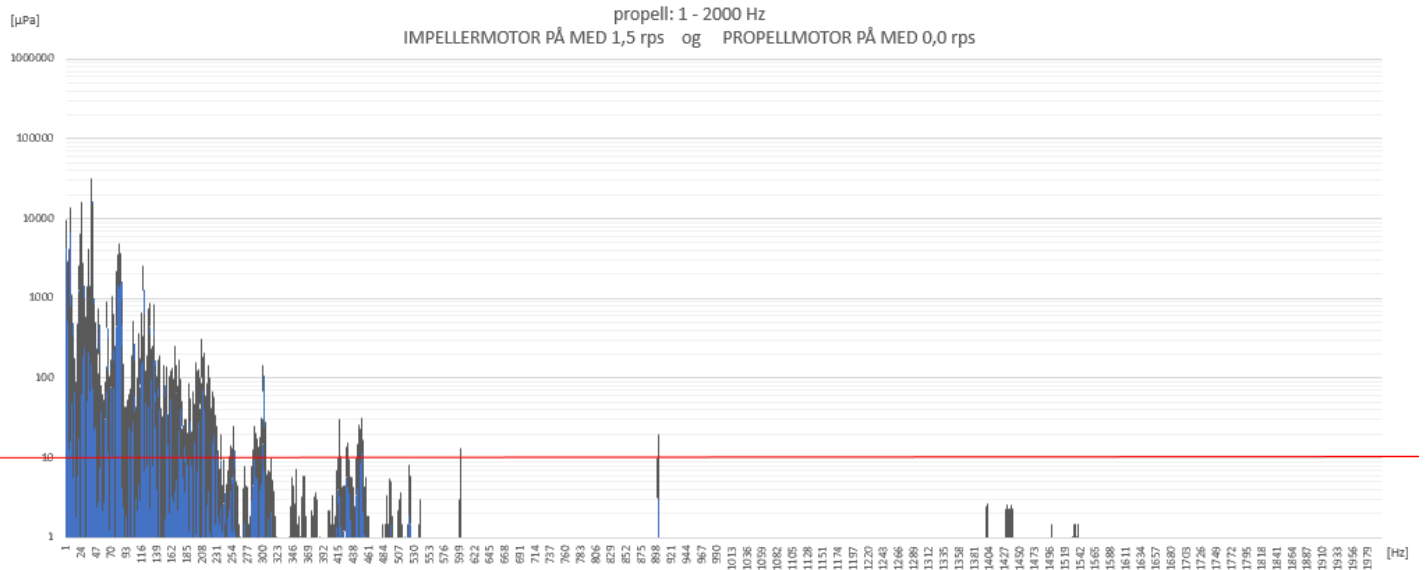


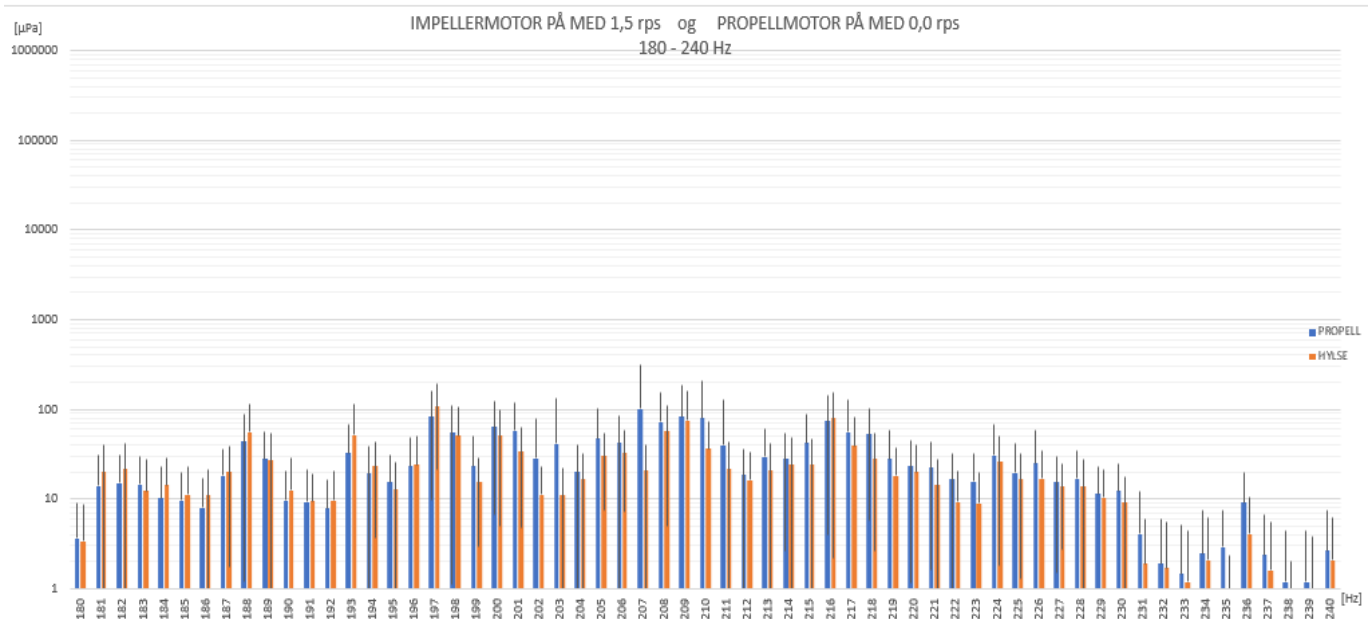
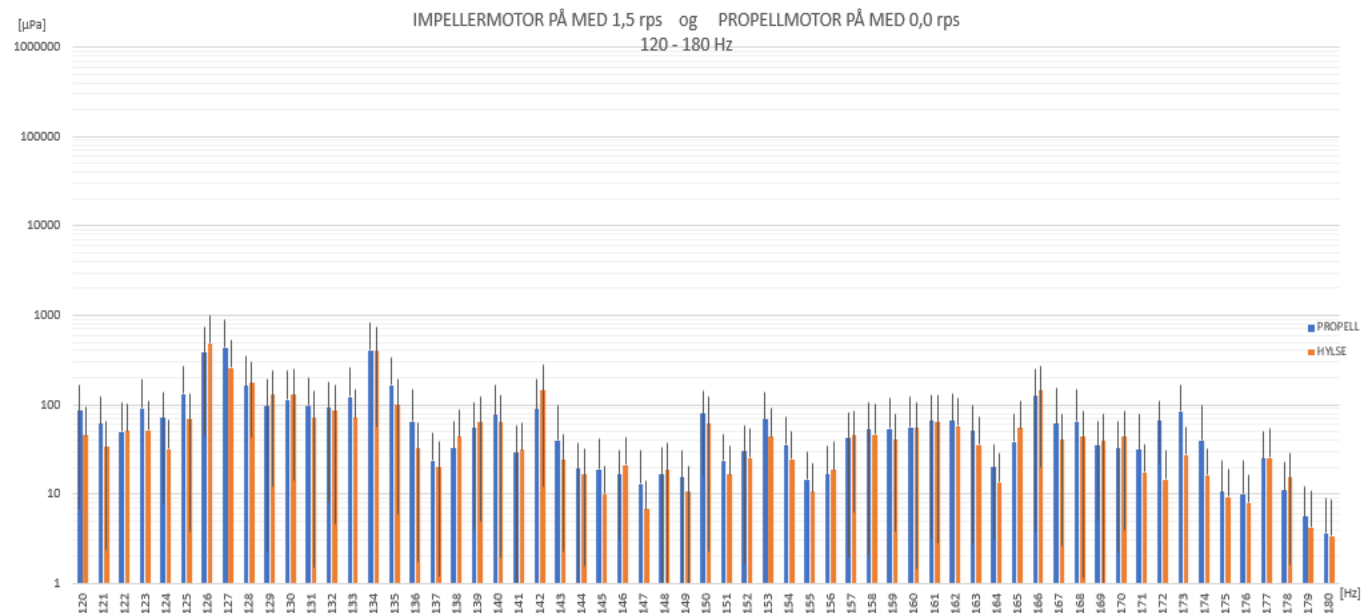
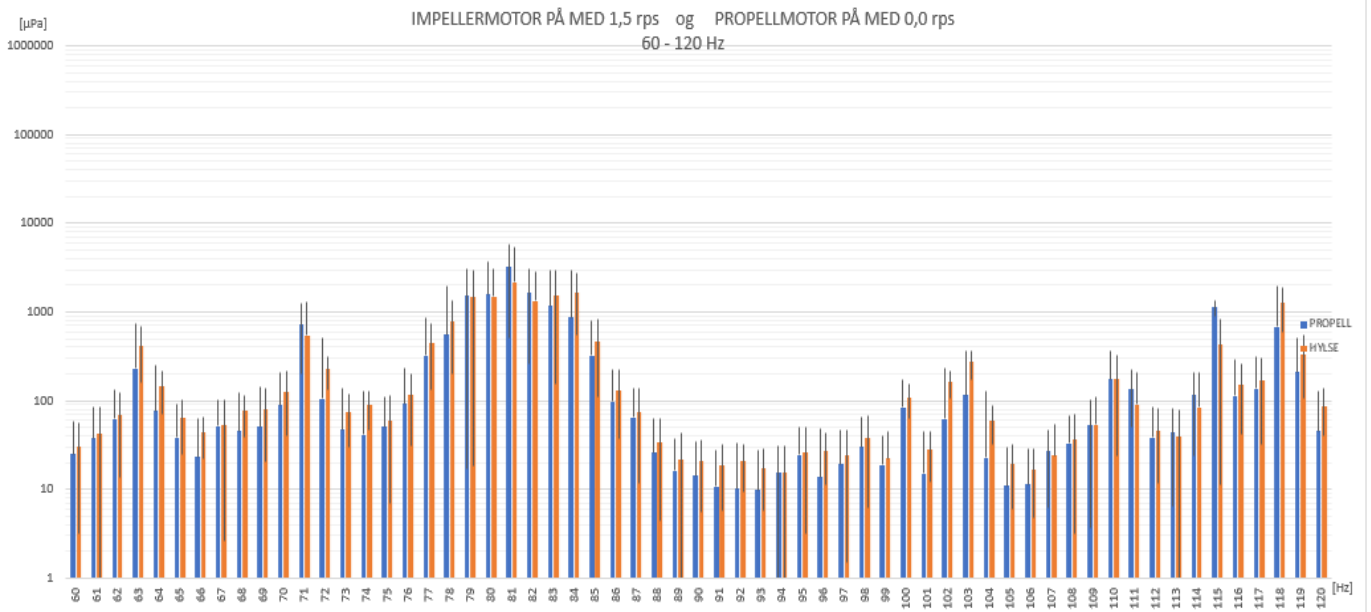


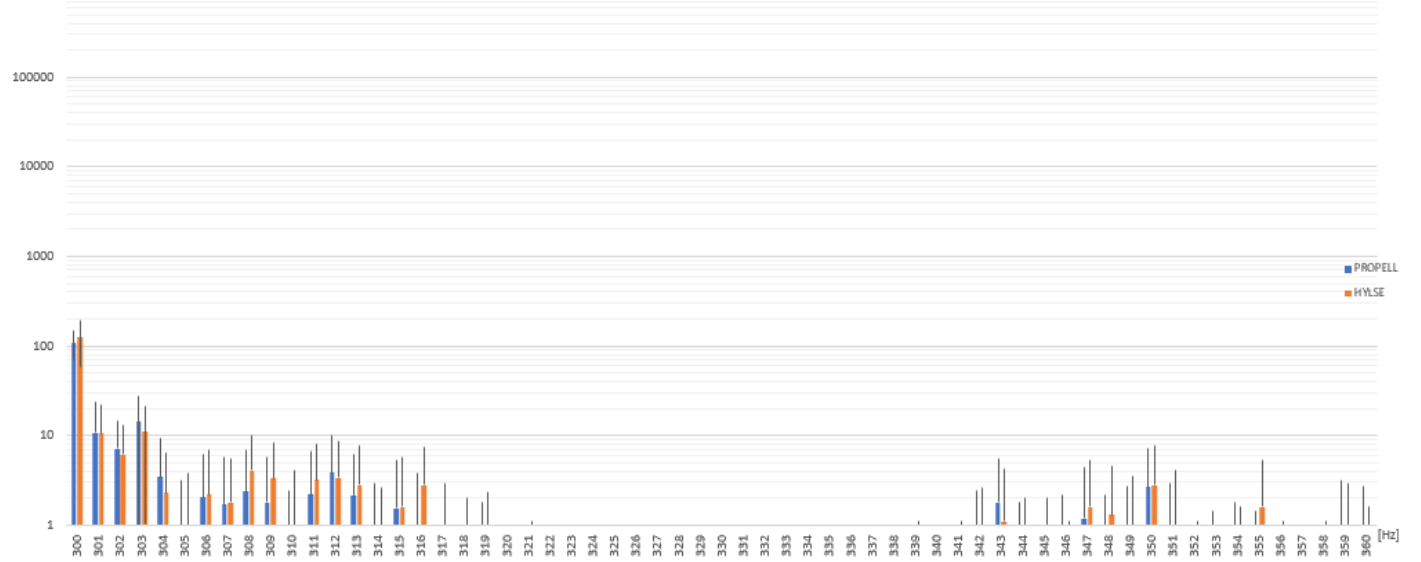
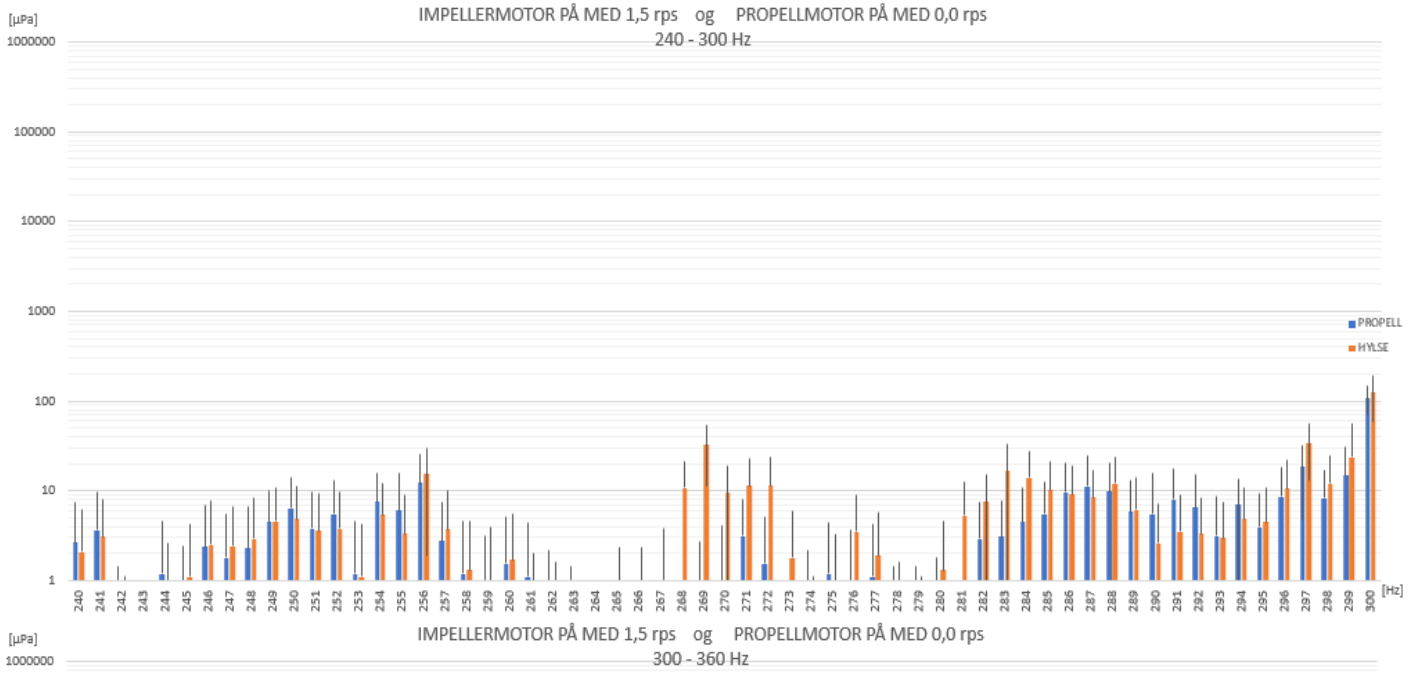


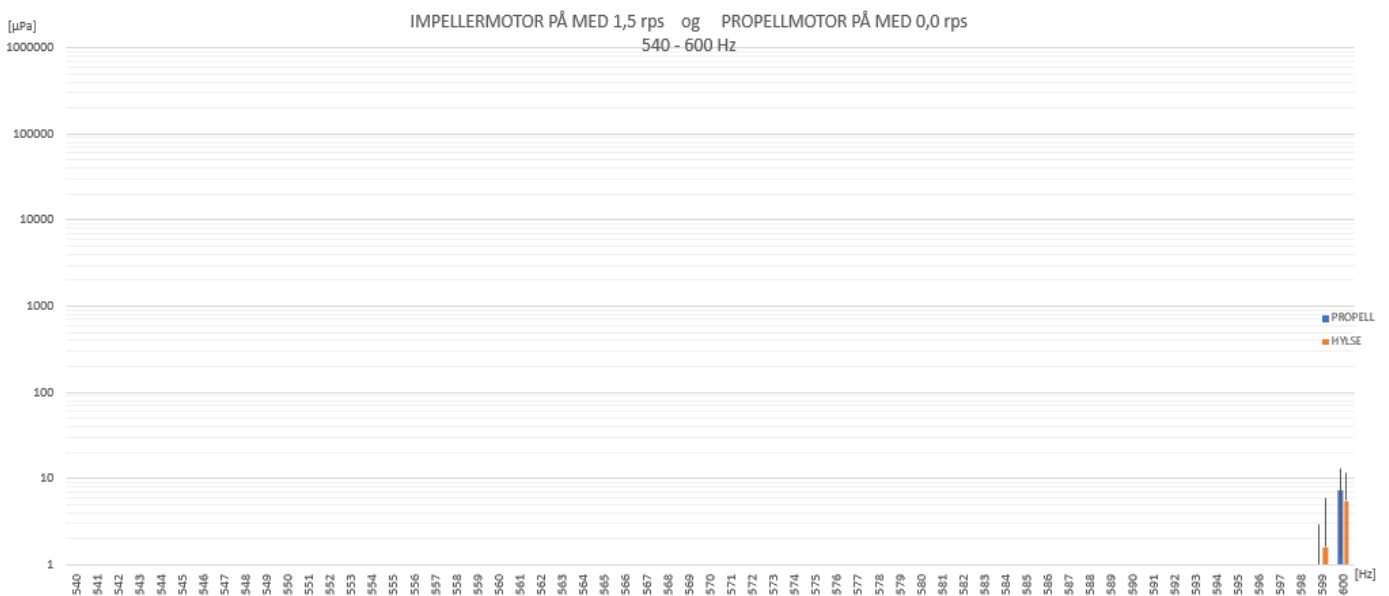
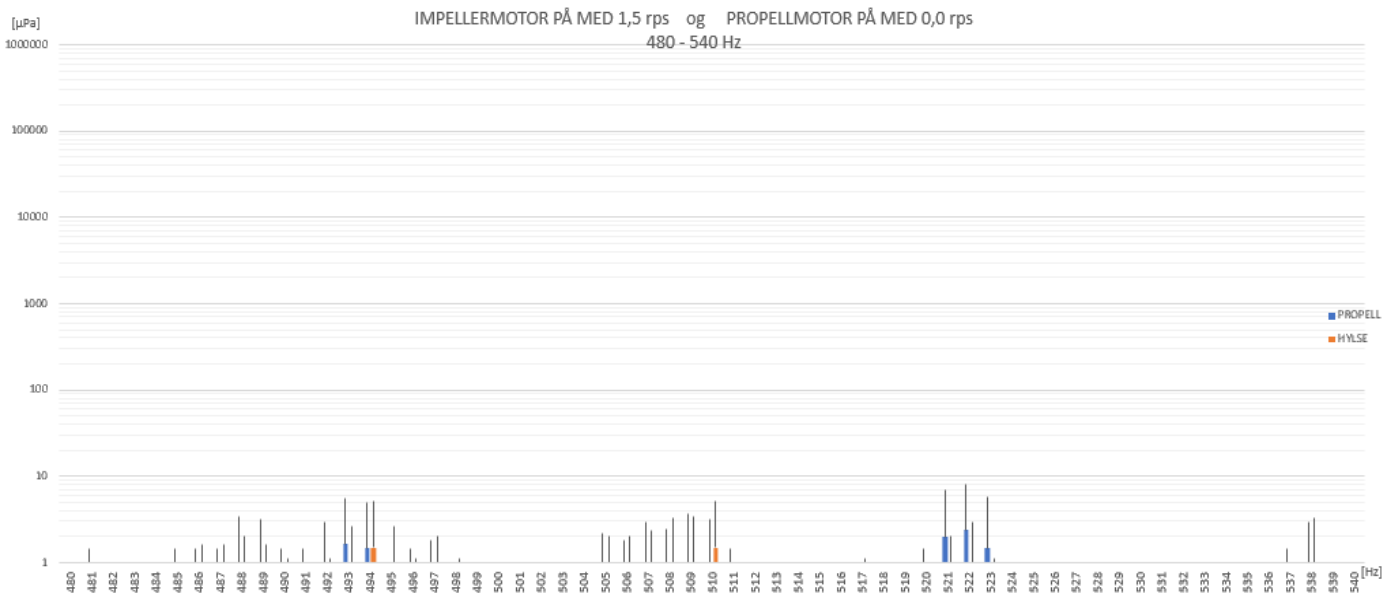
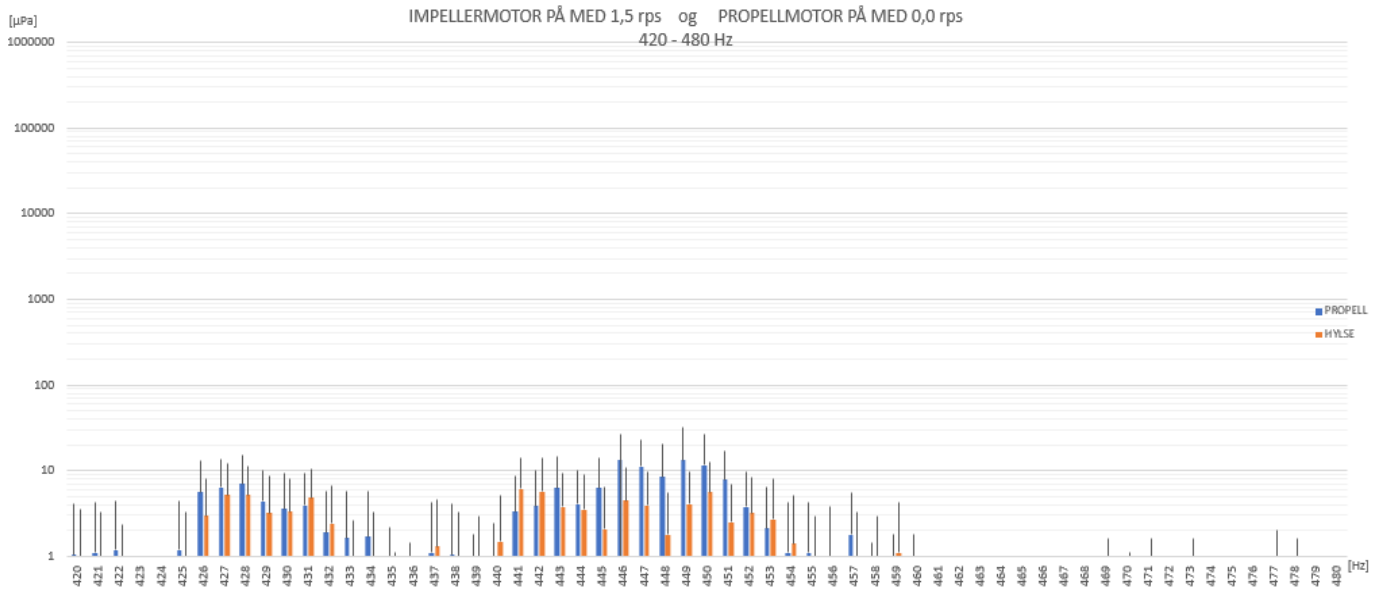


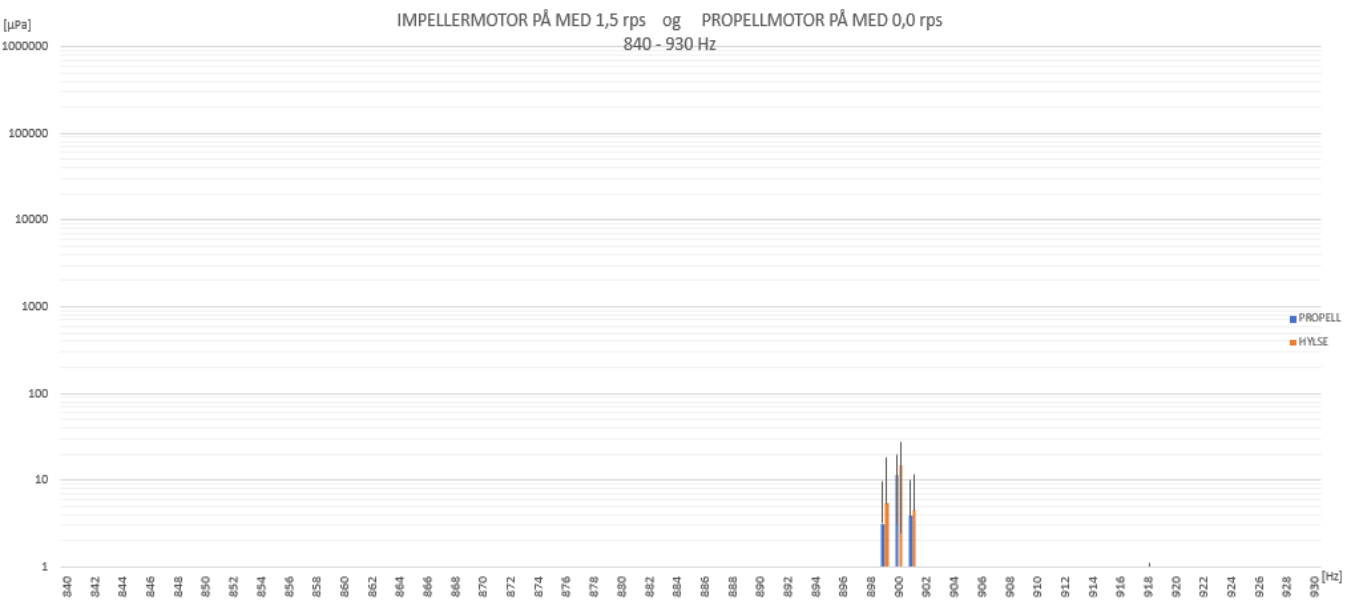
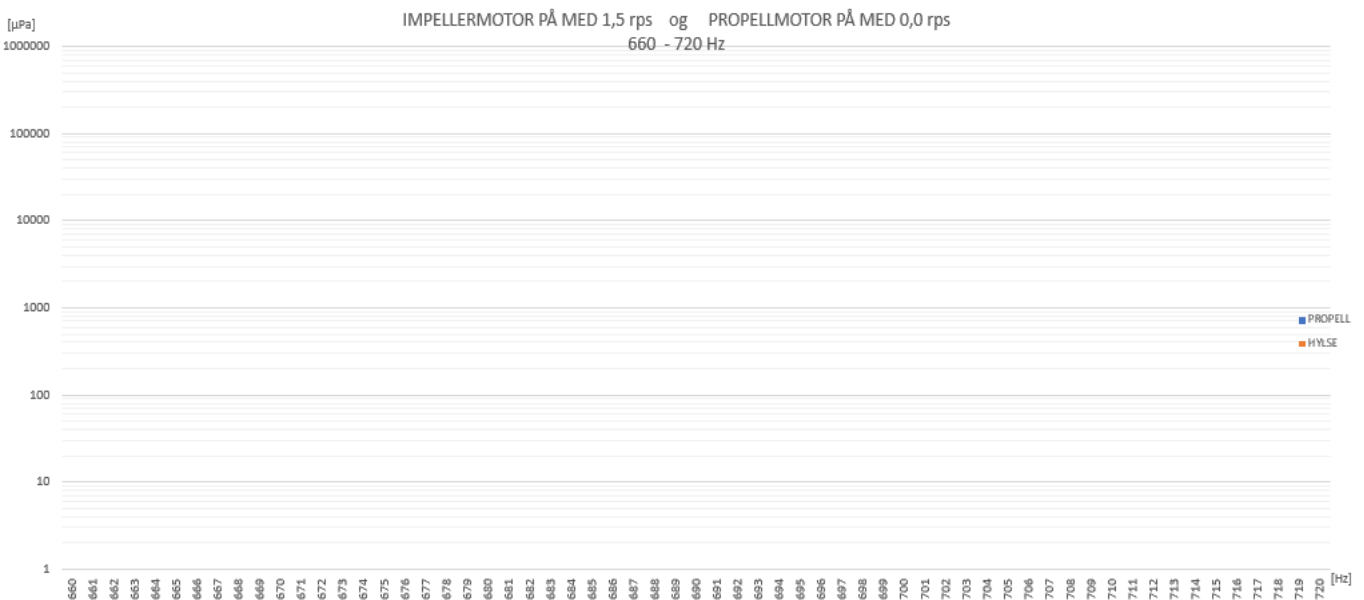
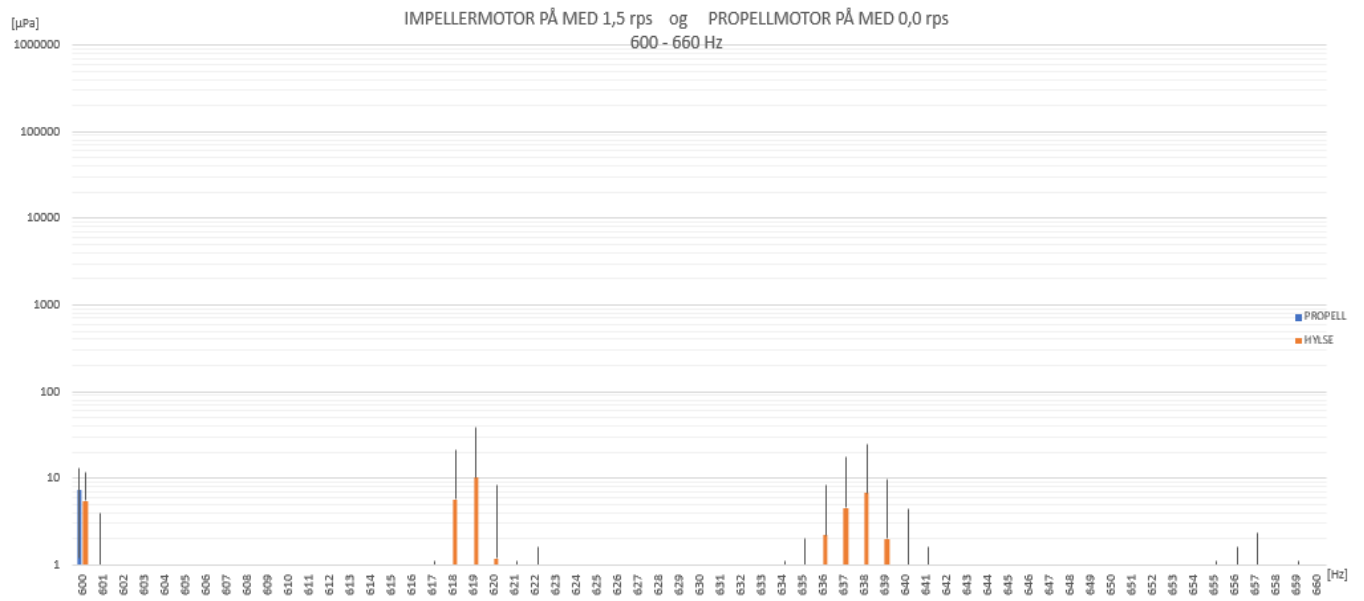
Scenario 16 og 36: Tabeller med impeller satt til 1,5rps, propellmotor går med 0rps. Med og uten propell



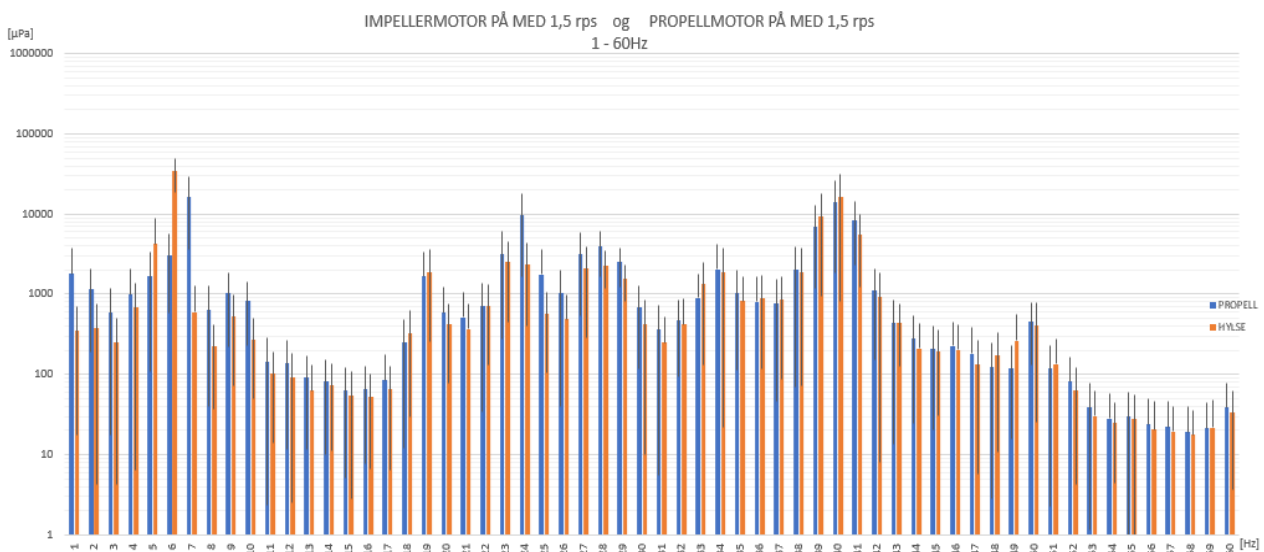
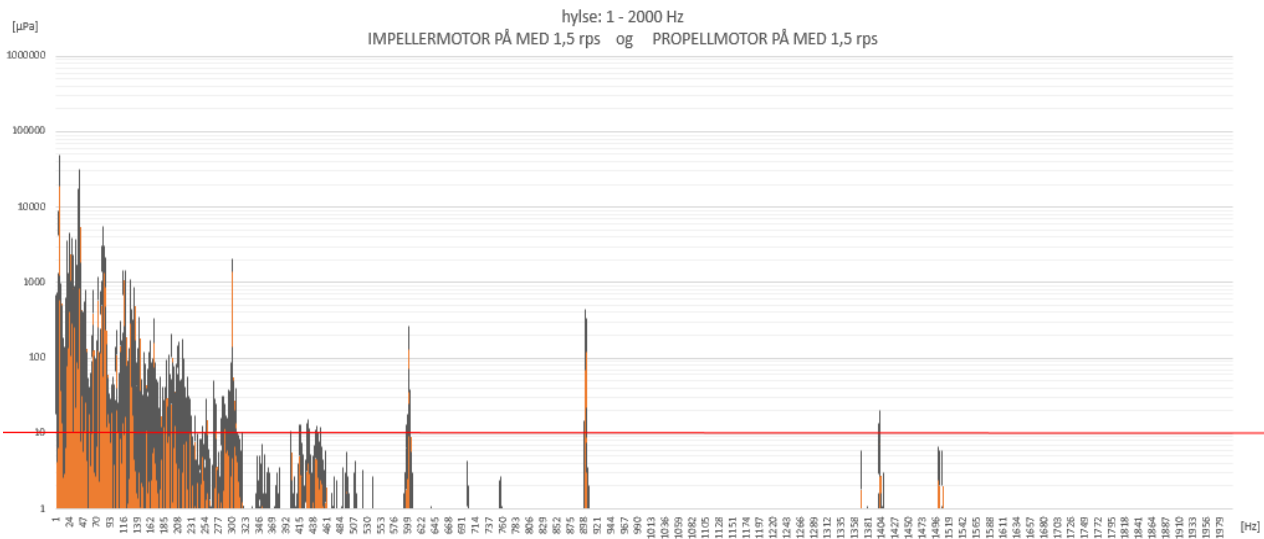
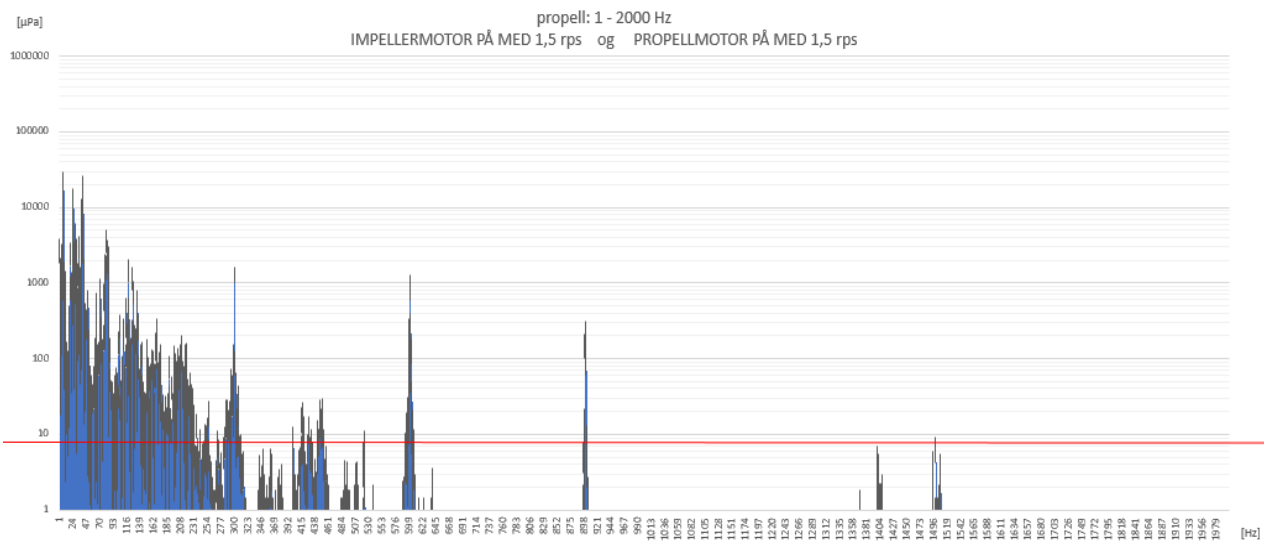


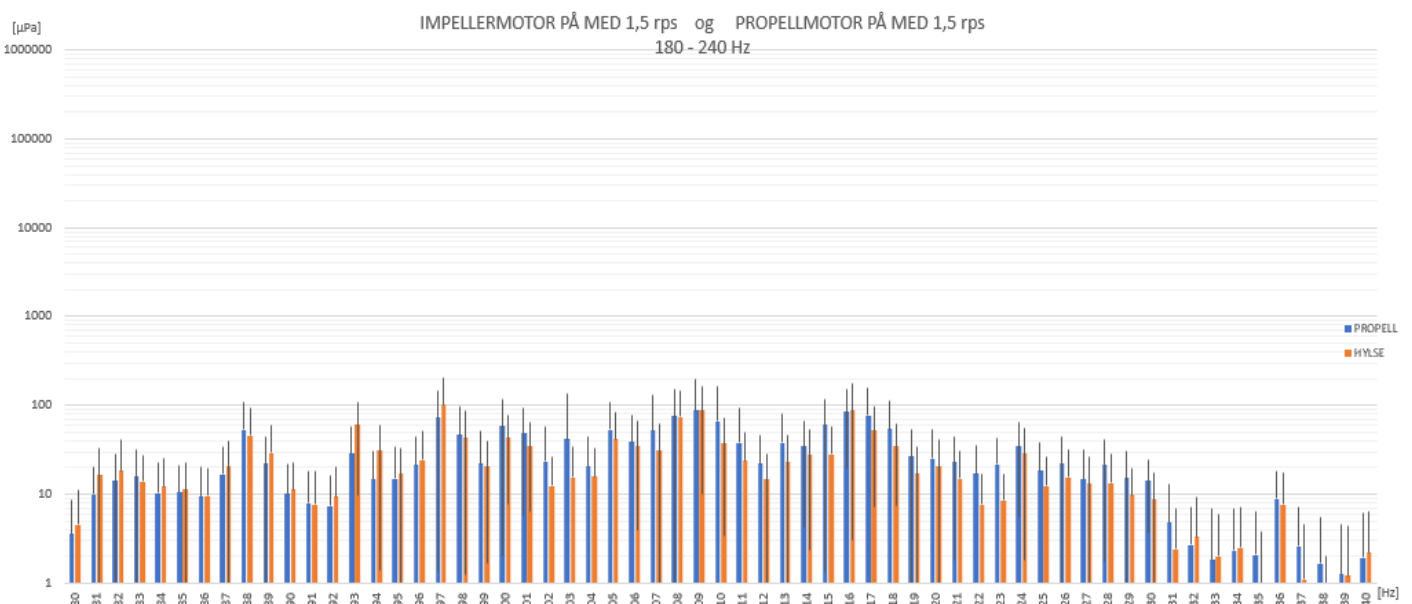
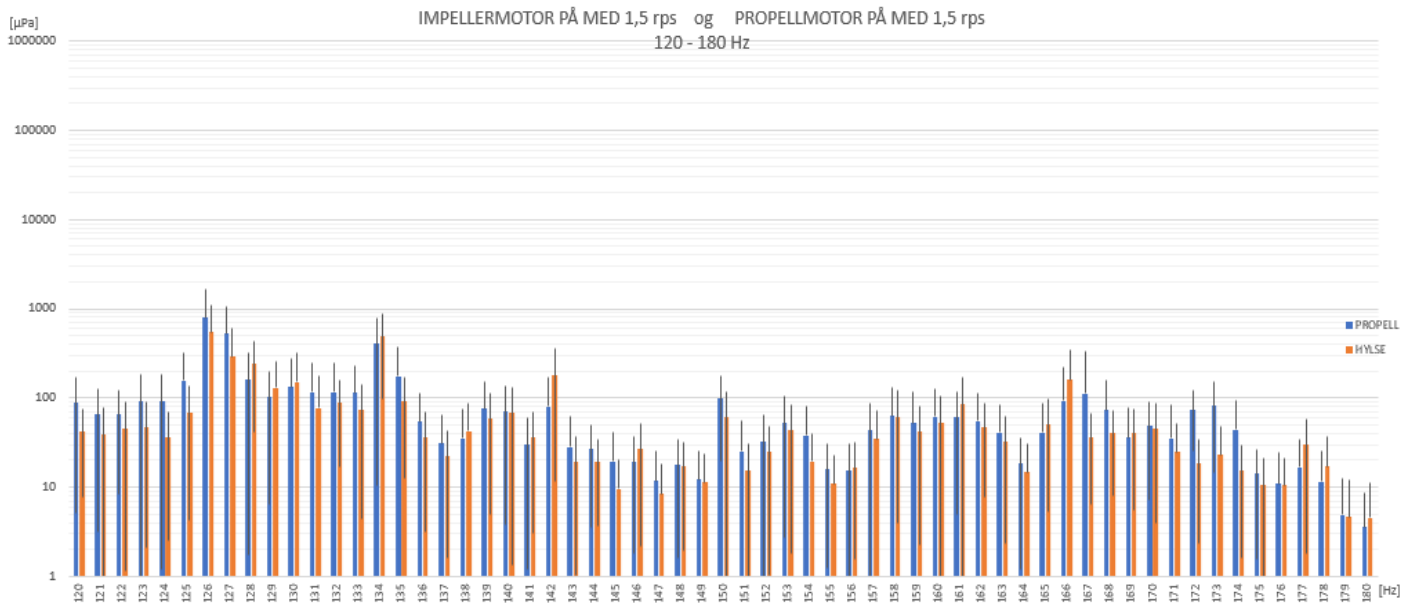
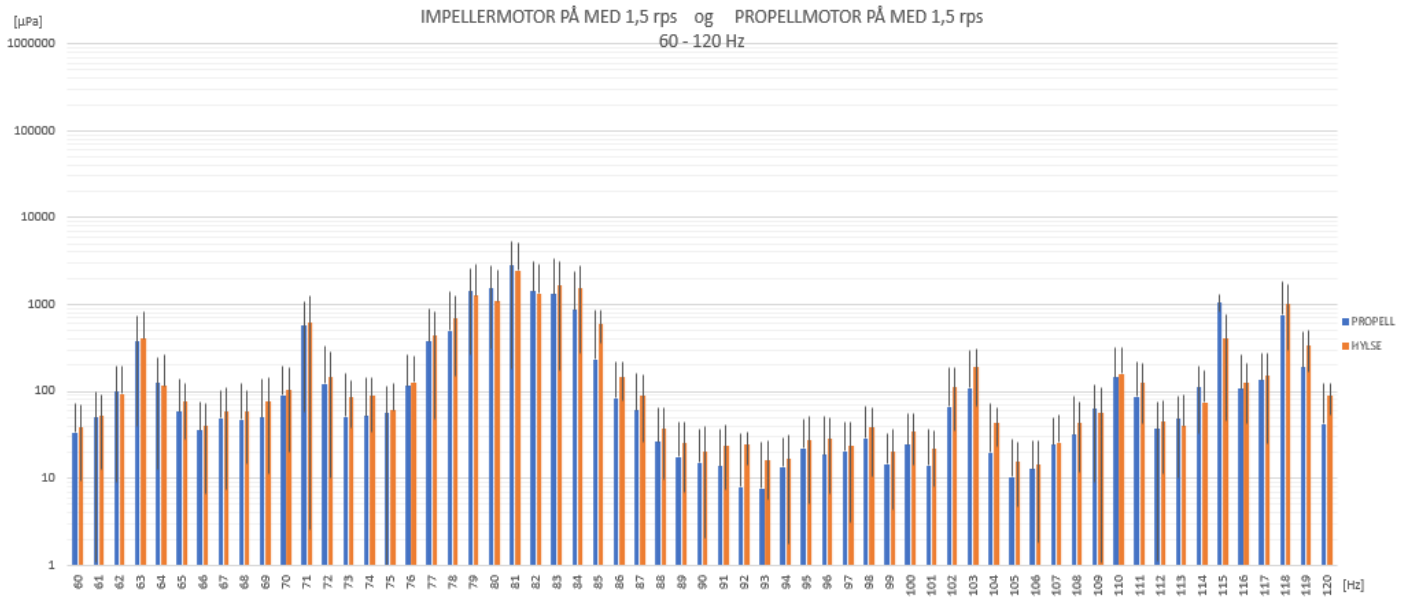


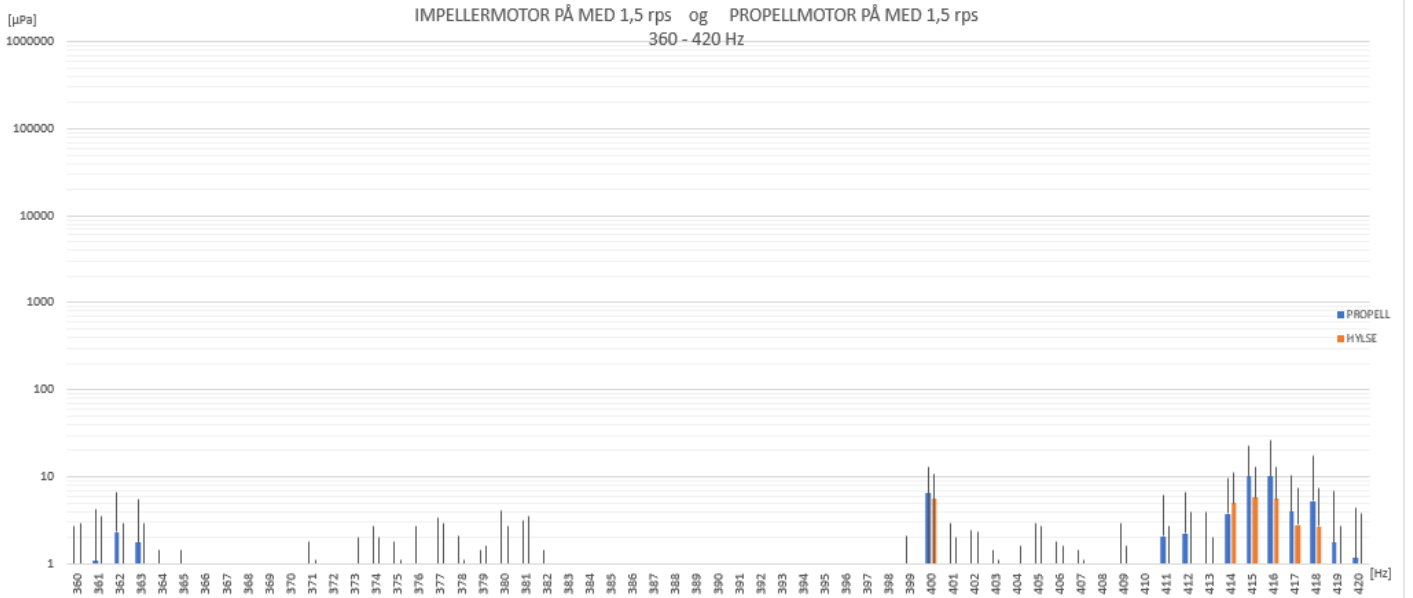
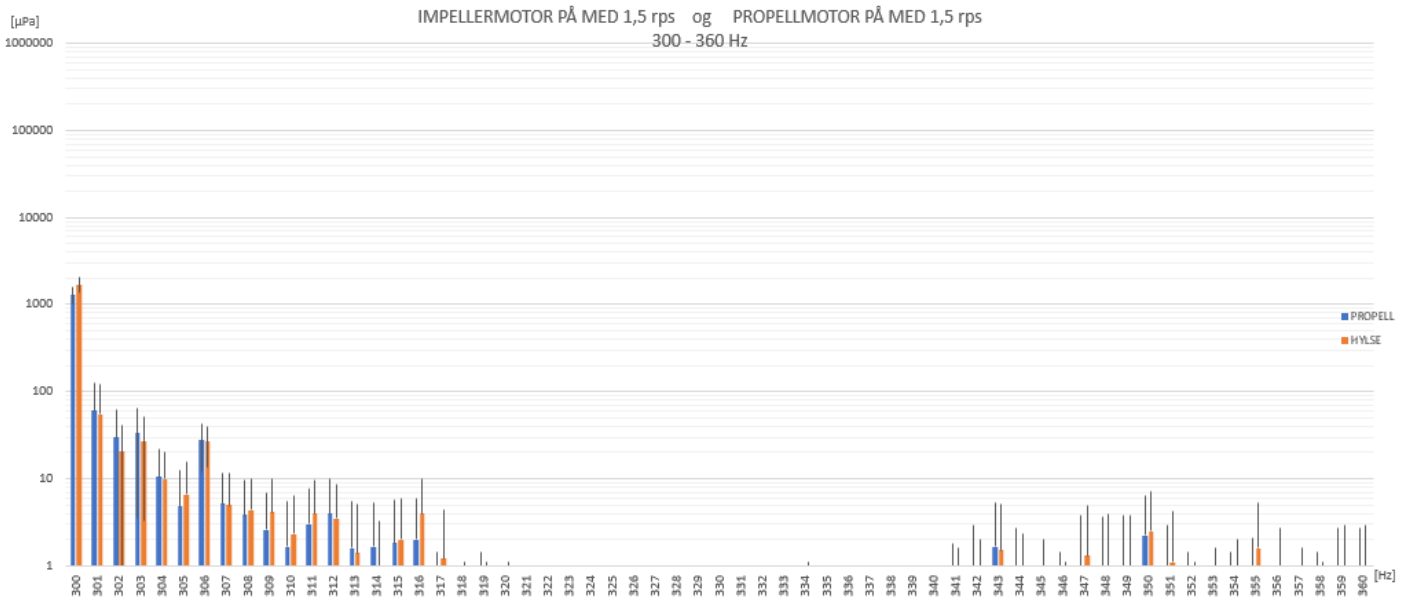
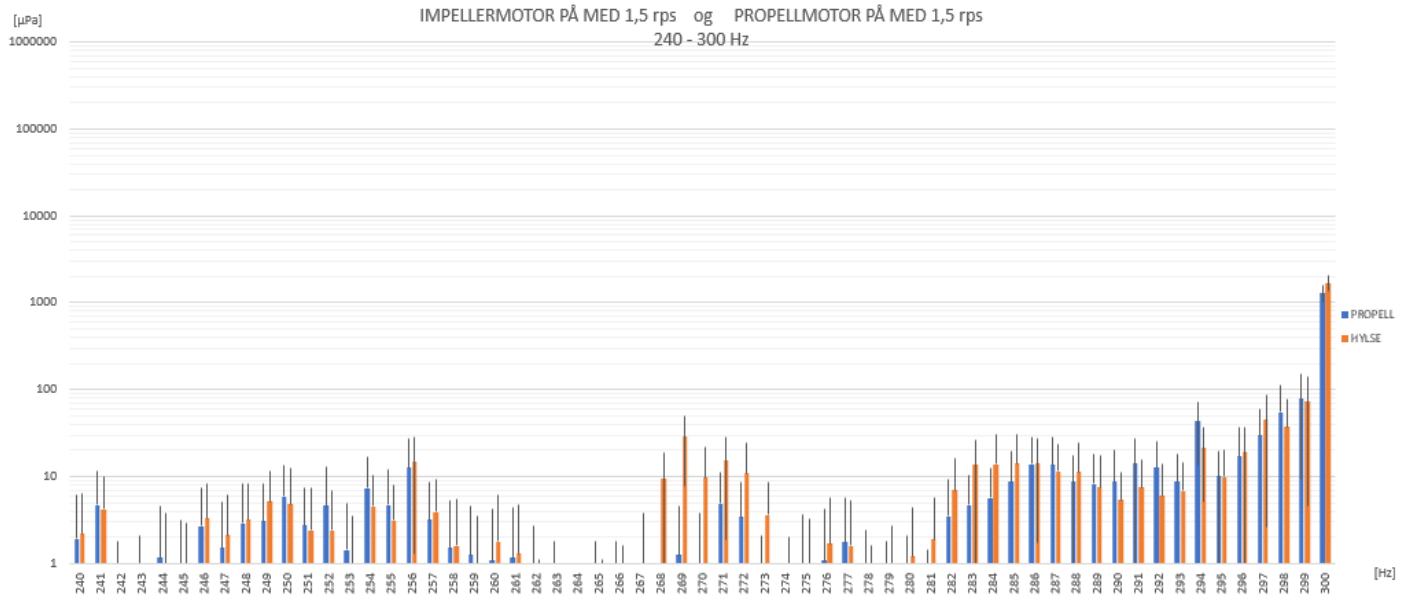


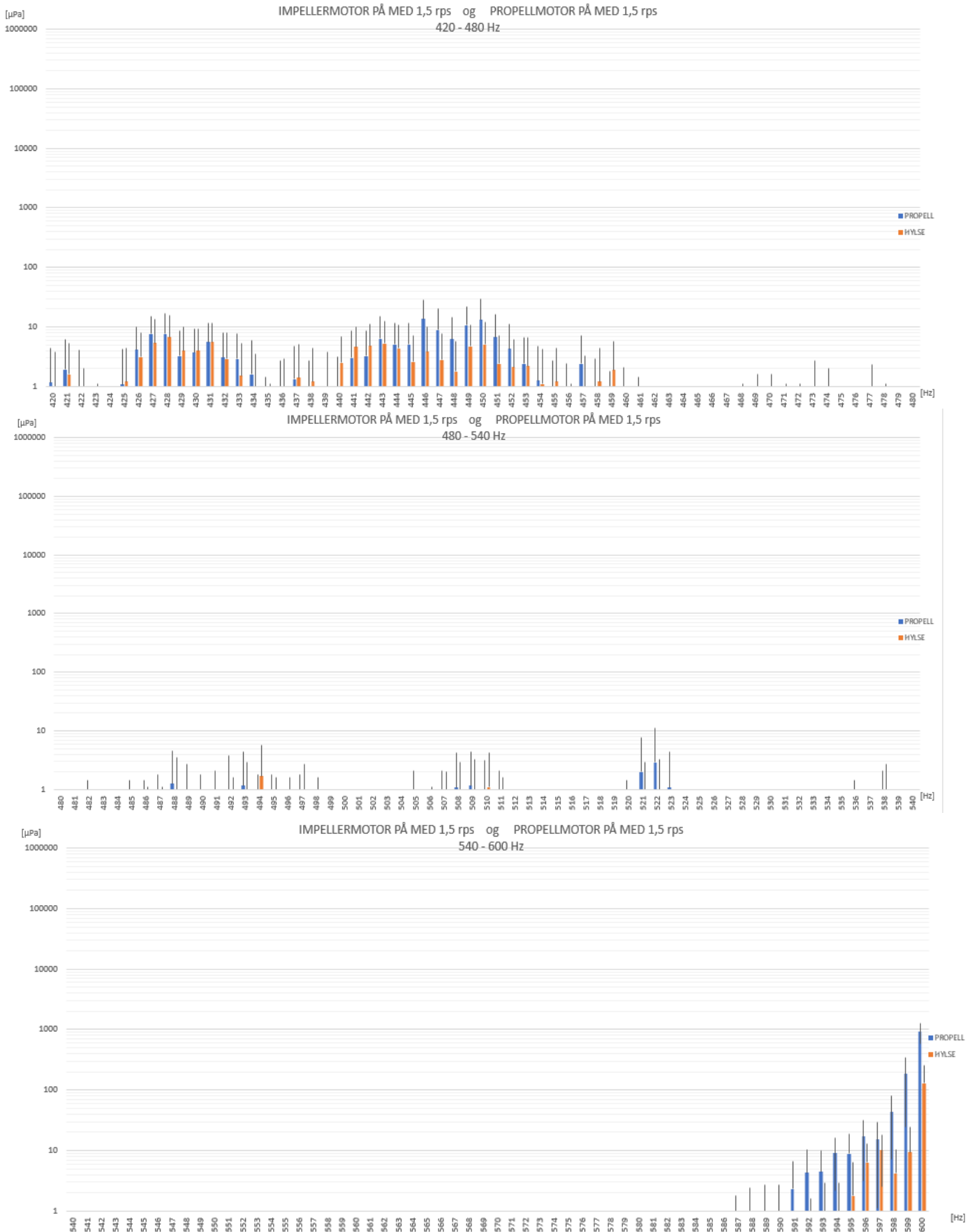


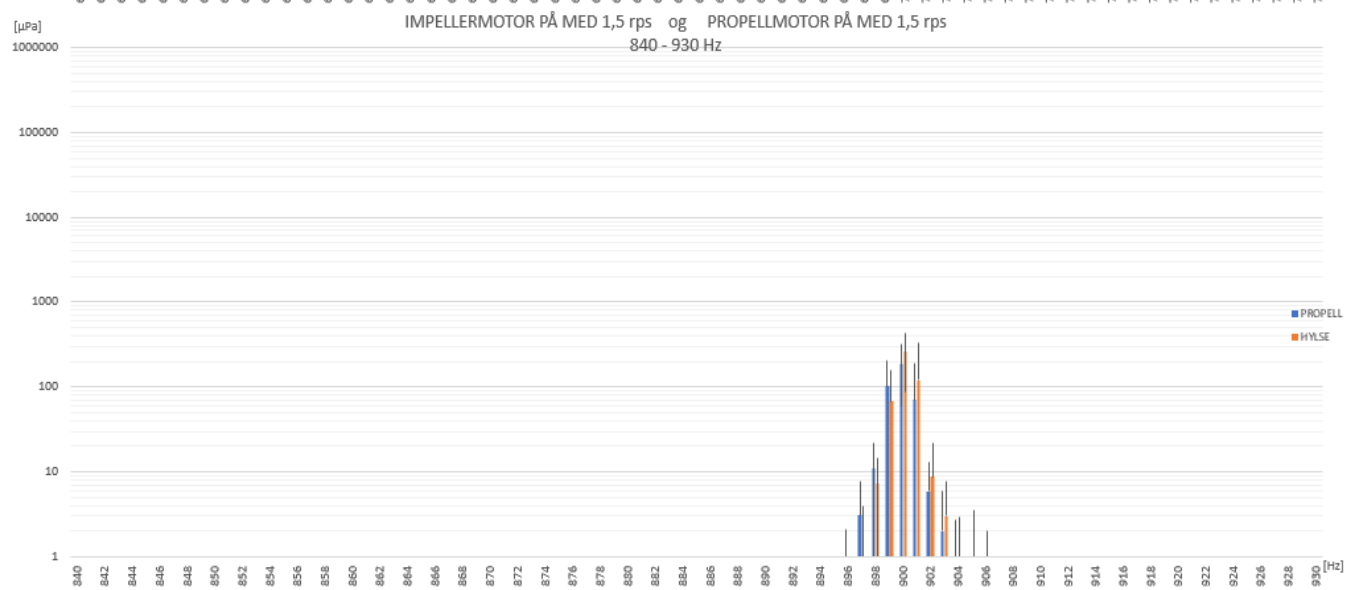
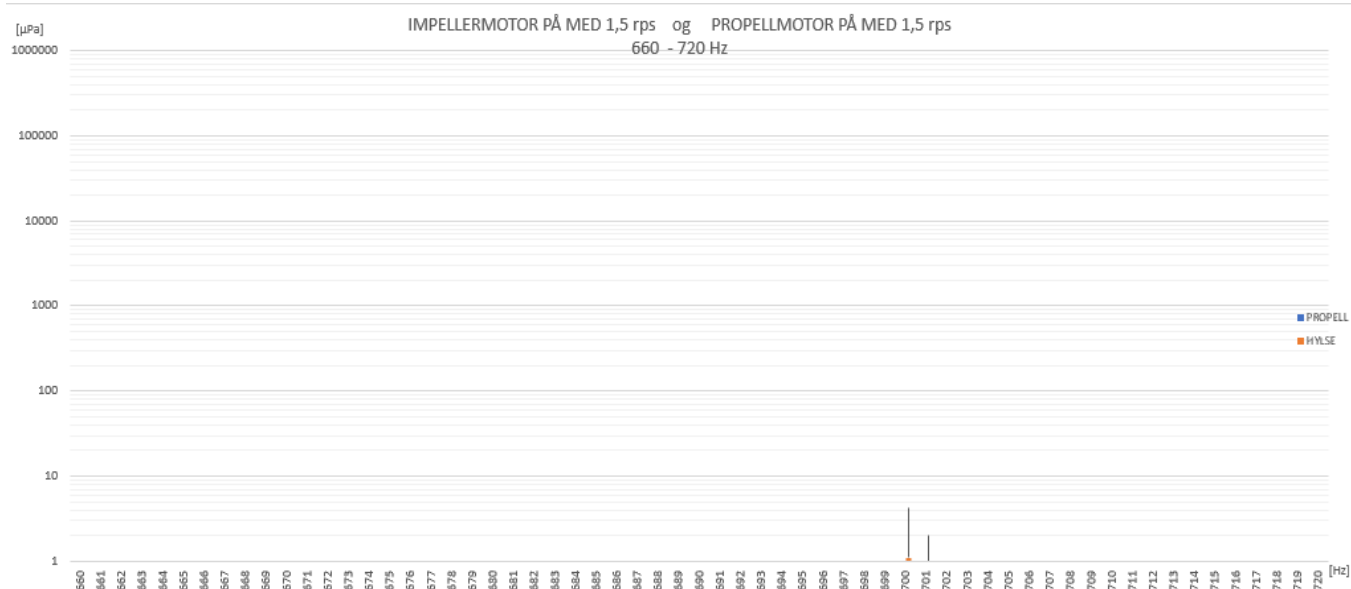
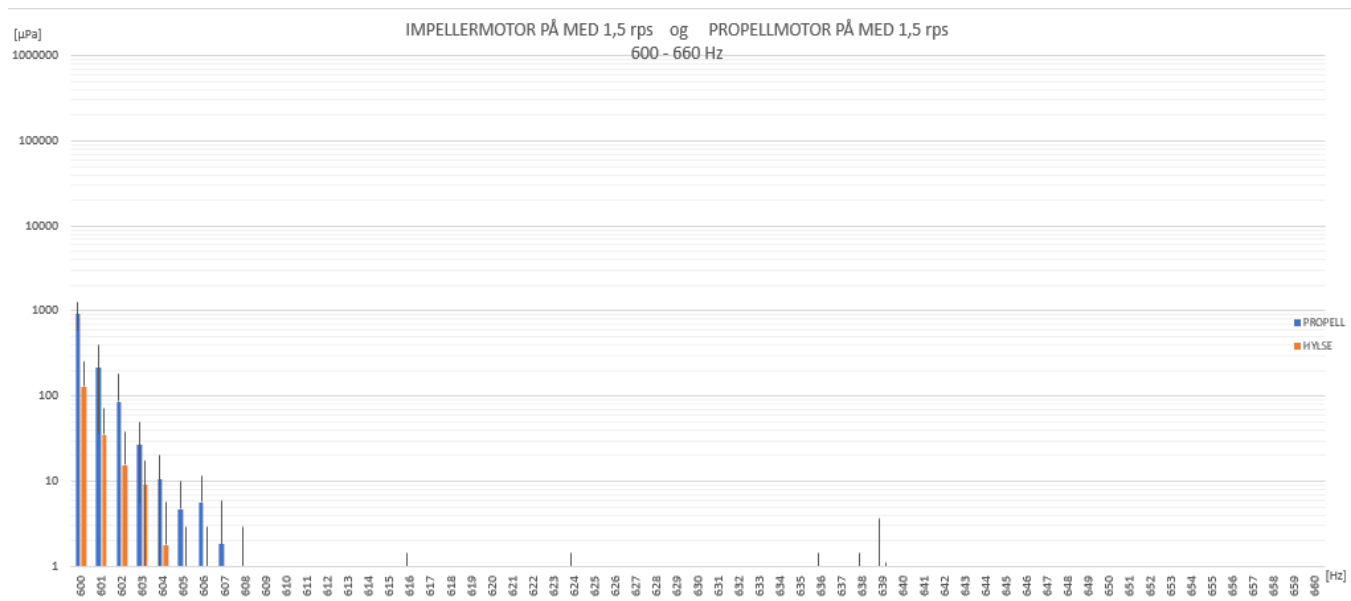
Scenario 17 og 37: Tabeller med impeller satt til 1,5rps, propellmotor går med 1,5rps. Med og uten propell







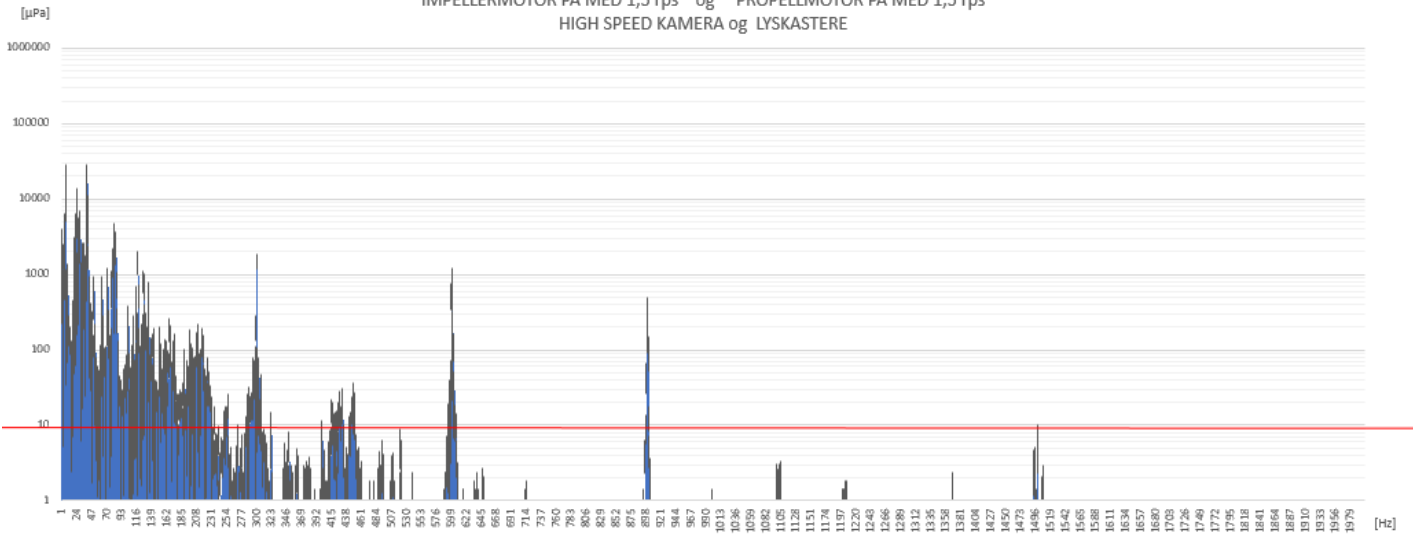




Scenario 18 og 38: Tabeller med impeller satt til 1,5rps, propell går med 1,5rps. I tillegg er lyskastere og kamera innkoblet. Med og uten propell

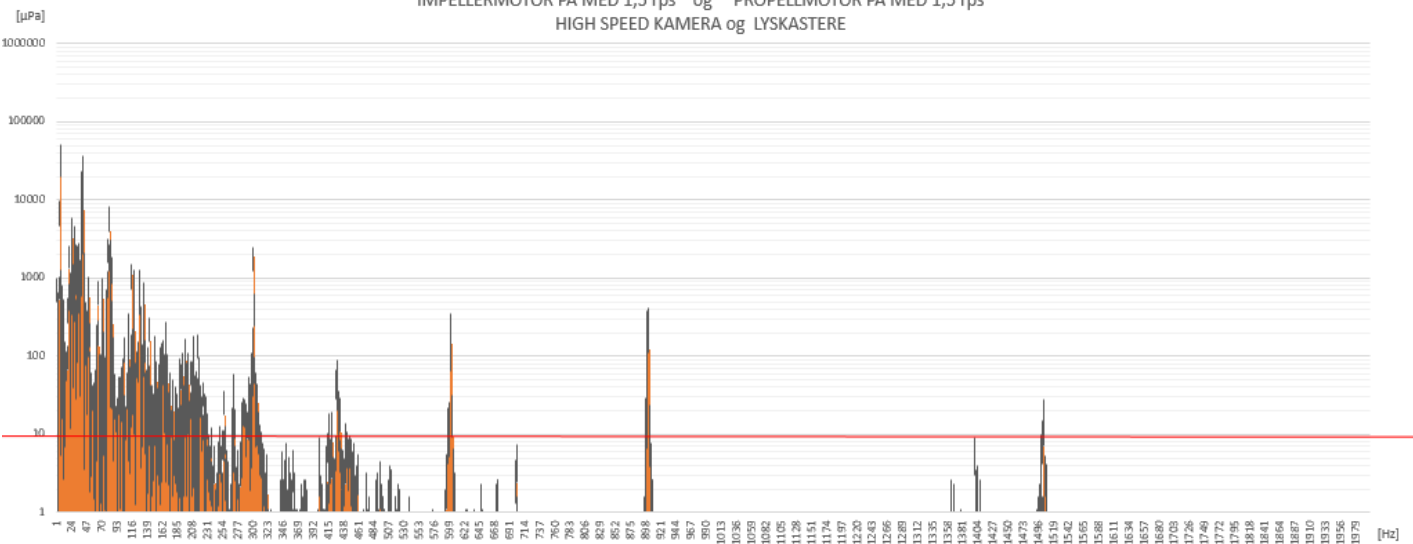
propell: 1 - 2000 Hz

IMPELLERMOTOR PÅ MED 1,5 rps og PROPELLMOTOR PÅ MED 1,5 rps
HIGH SPEED KAMERA og LYSKASTERE

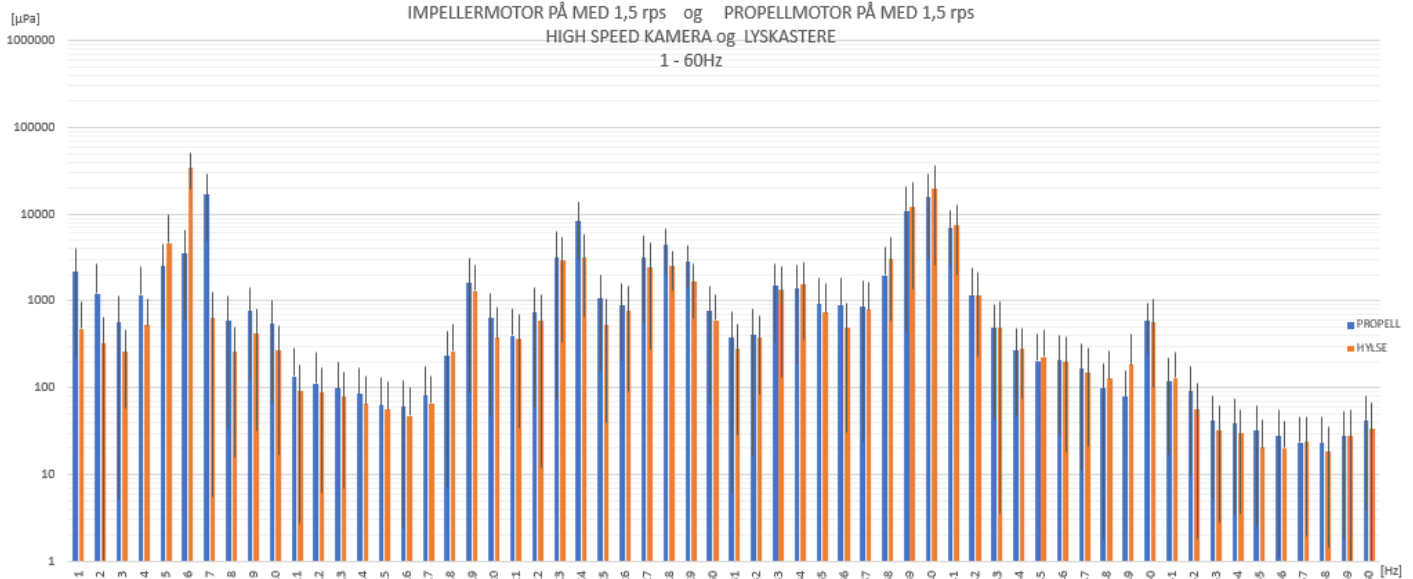


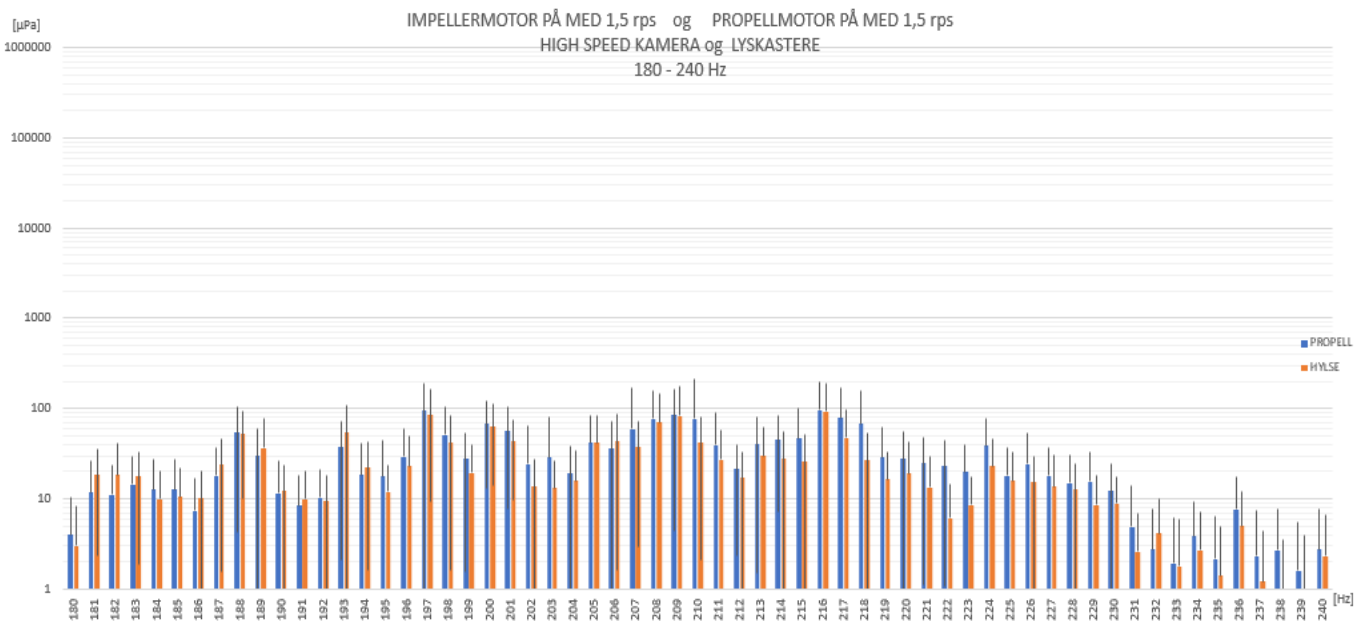
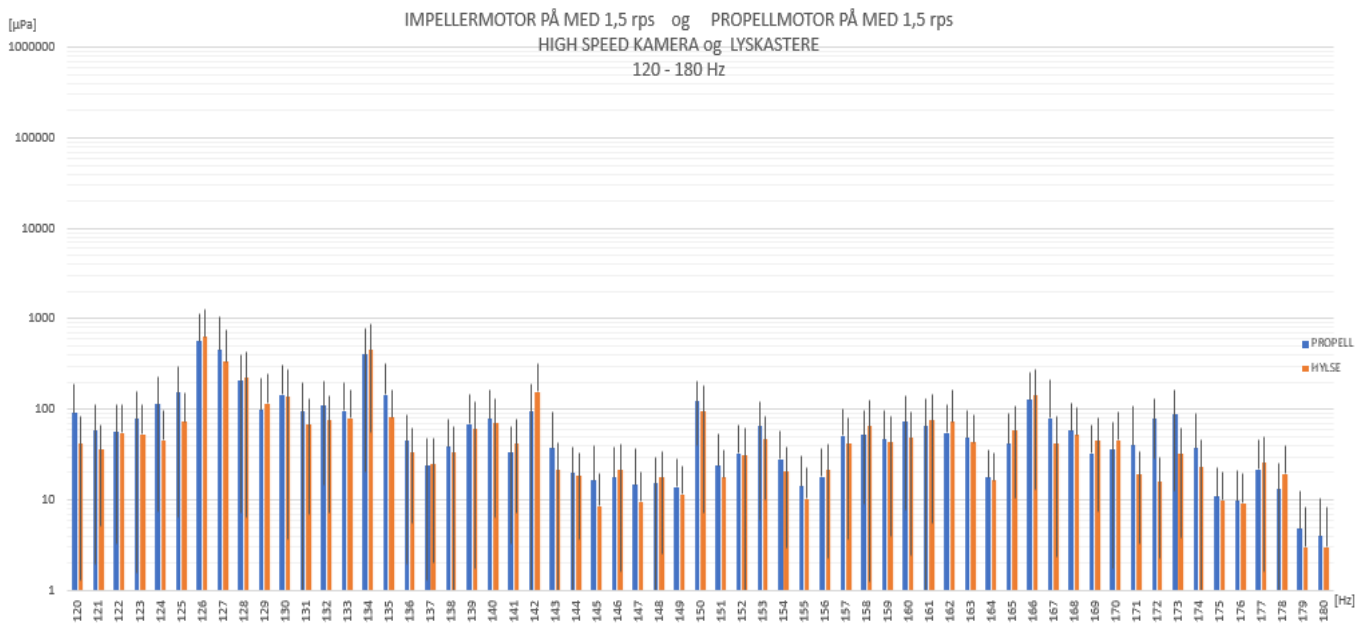
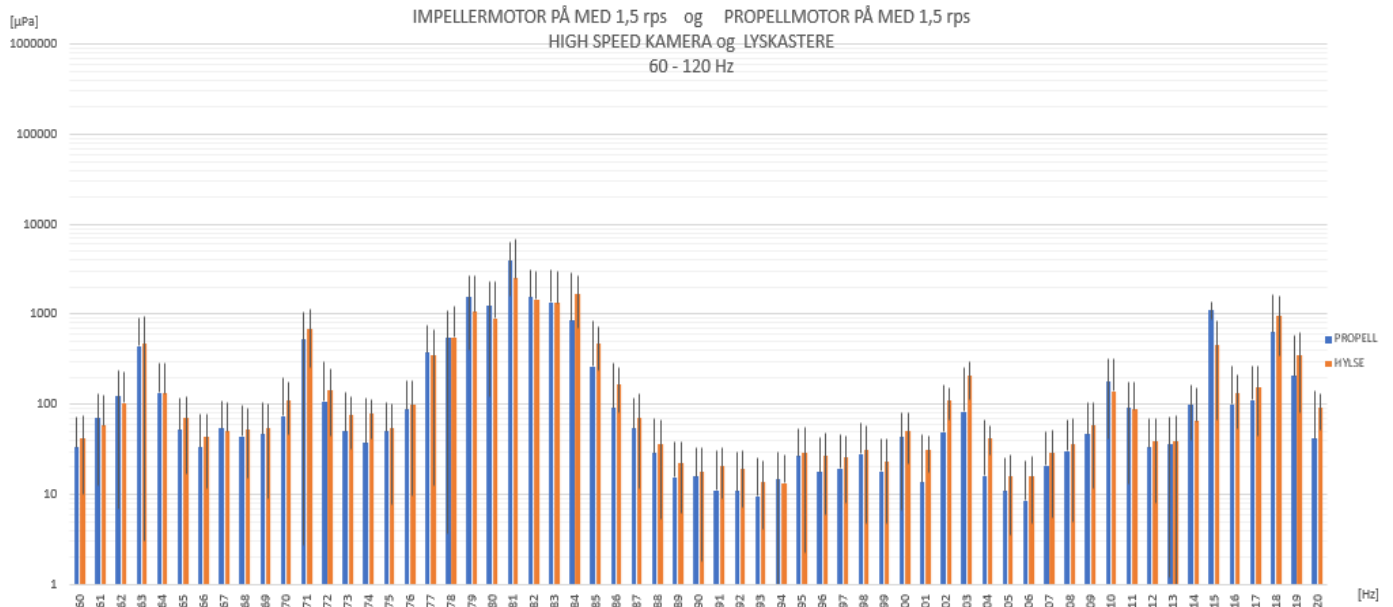
hylse: 1 - 2000 Hz

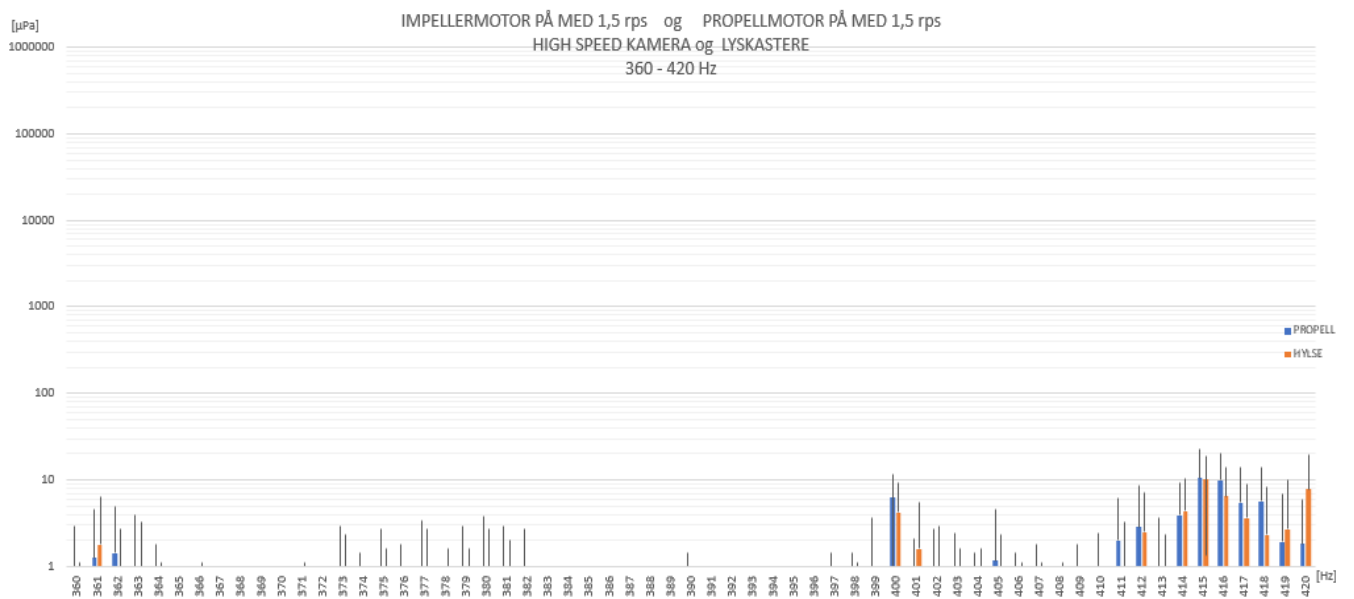
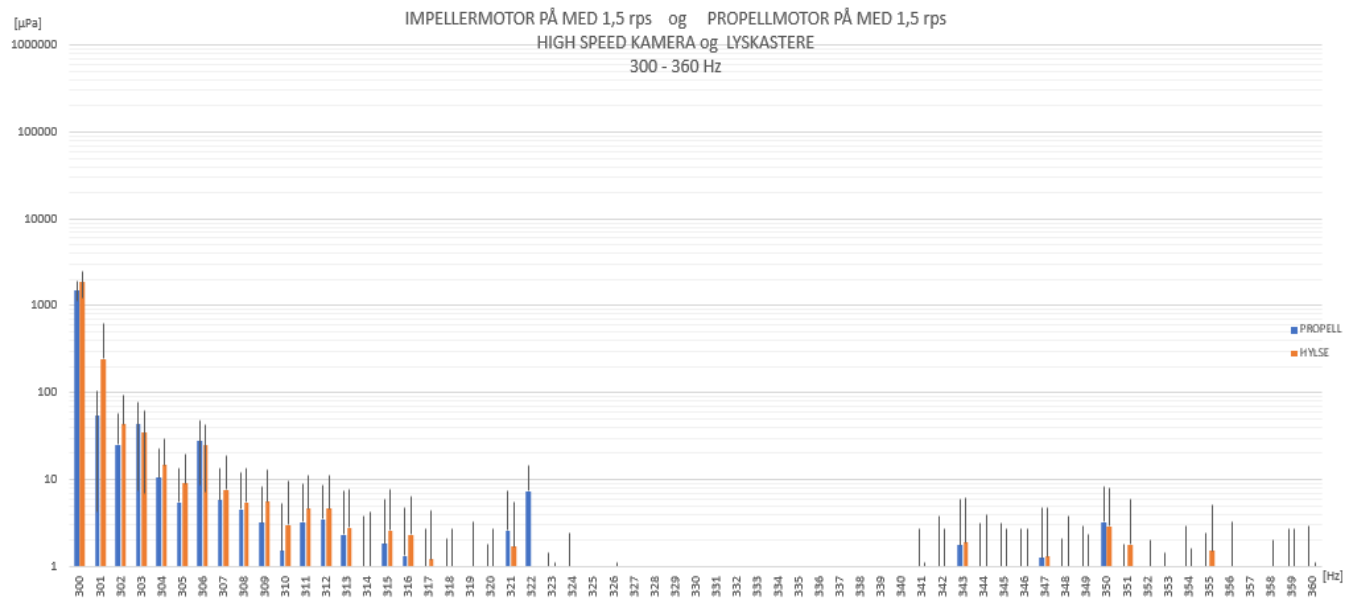
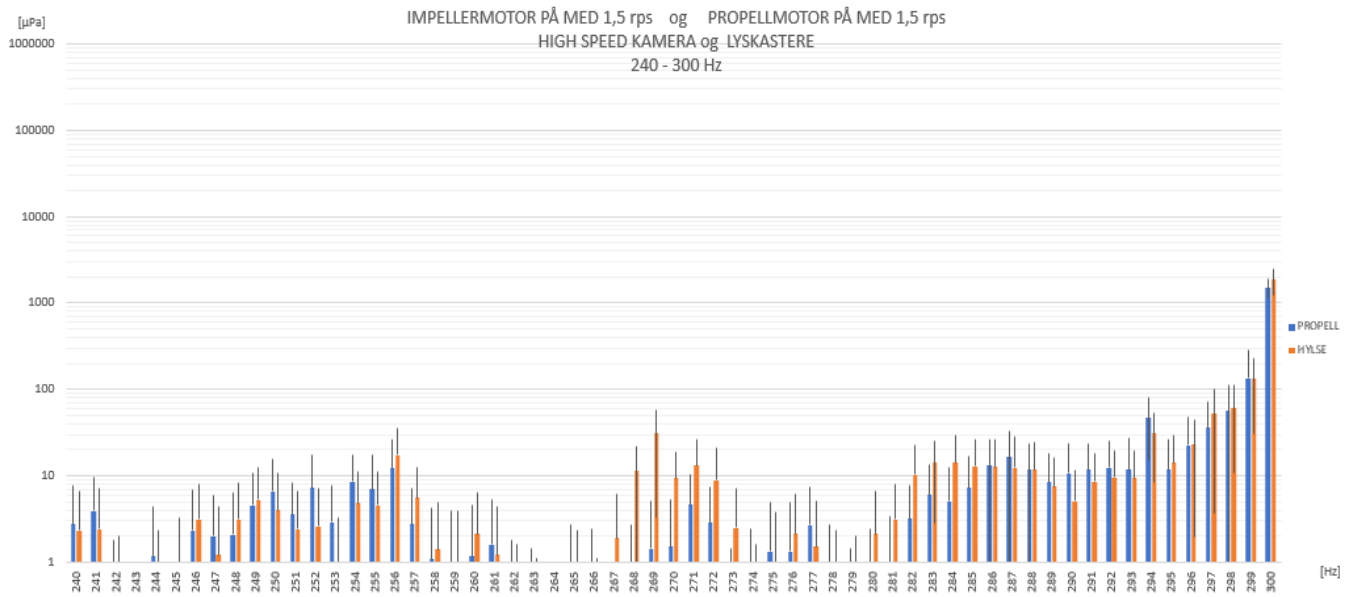
IMPELLERMOTOR PÅ MED 1,5 rps og PROPELLMOTOR PÅ MED 1,5 rps
HIGH SPEED KAMERA og LYSKASTERE

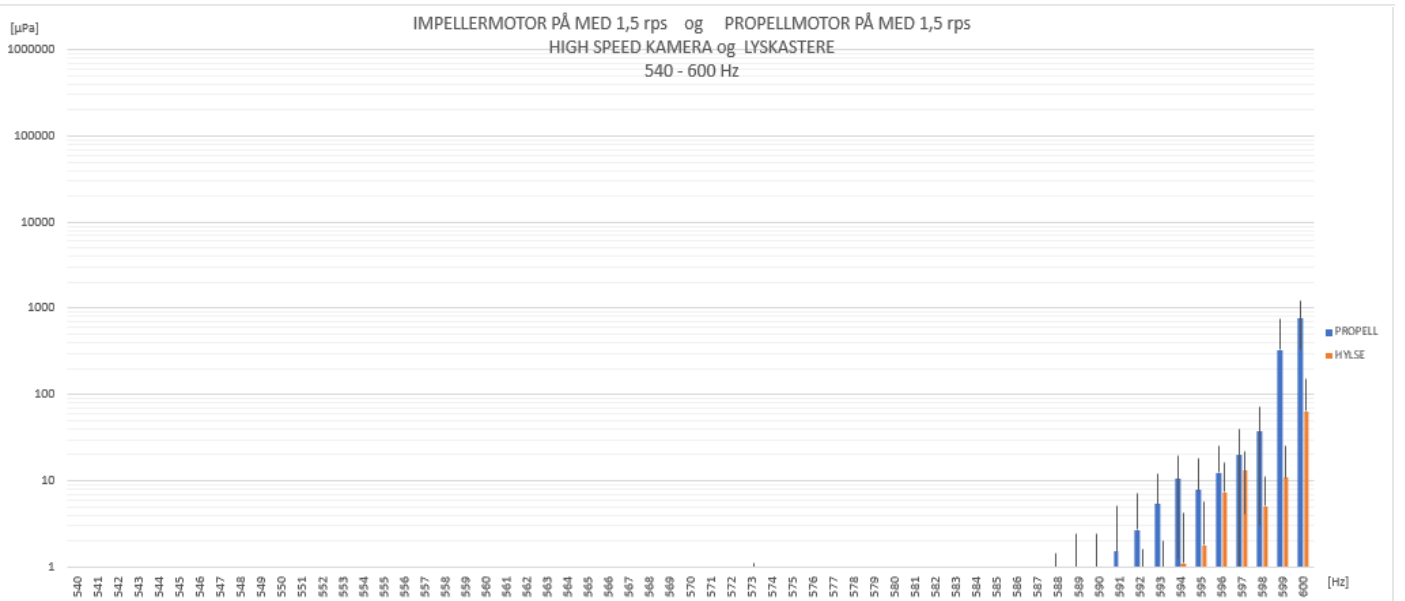
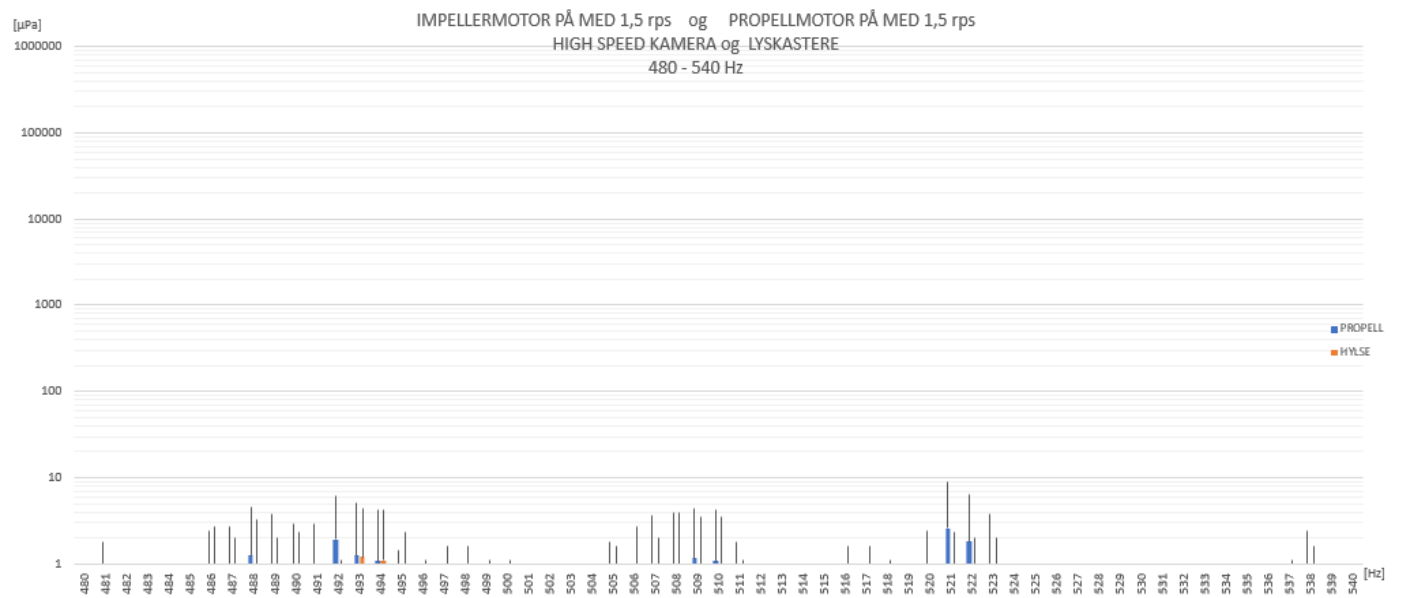
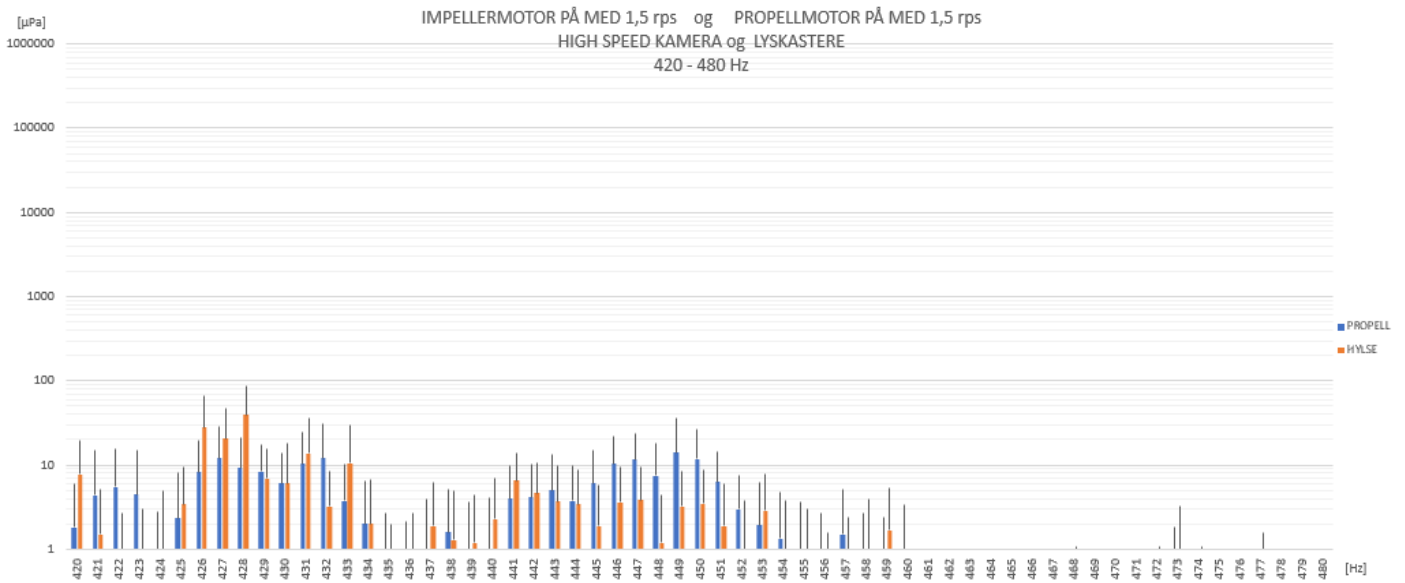


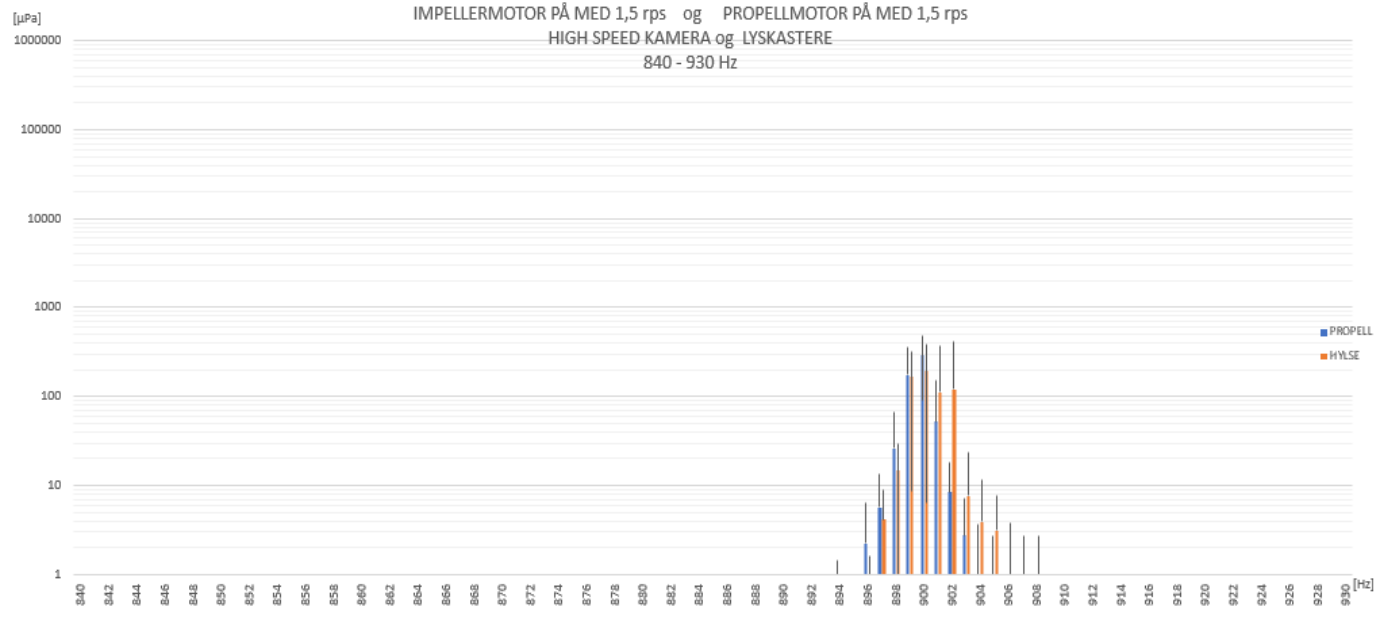
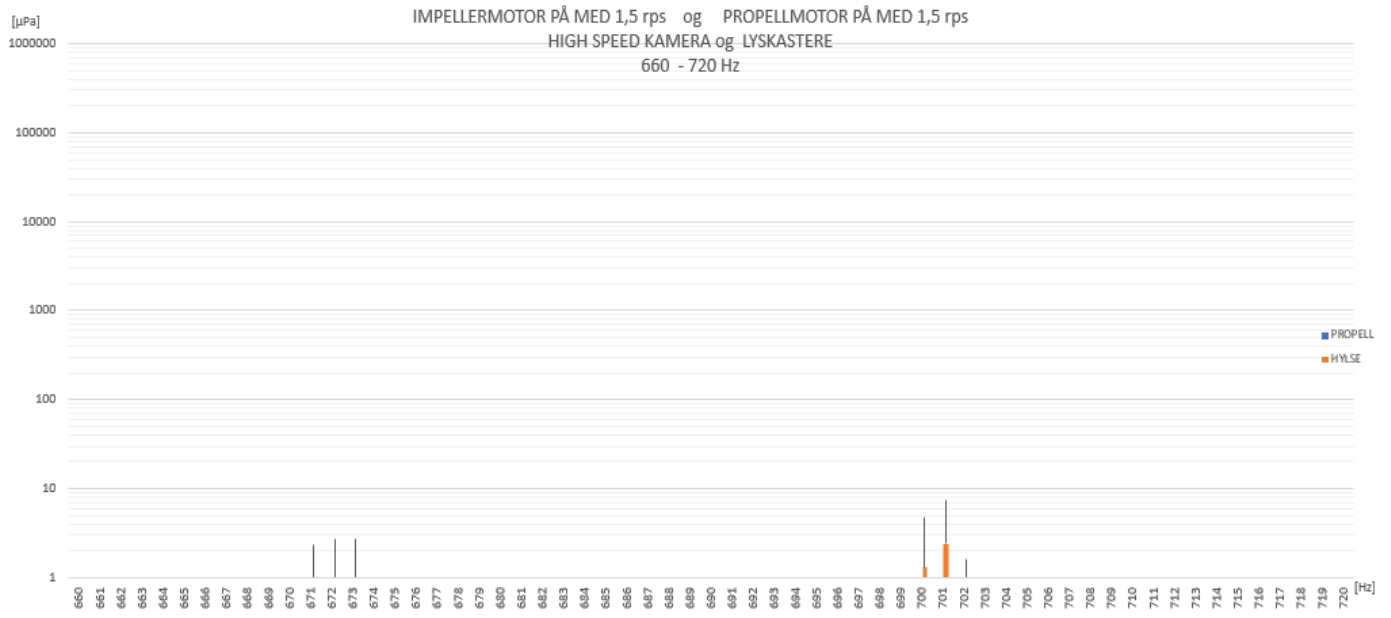
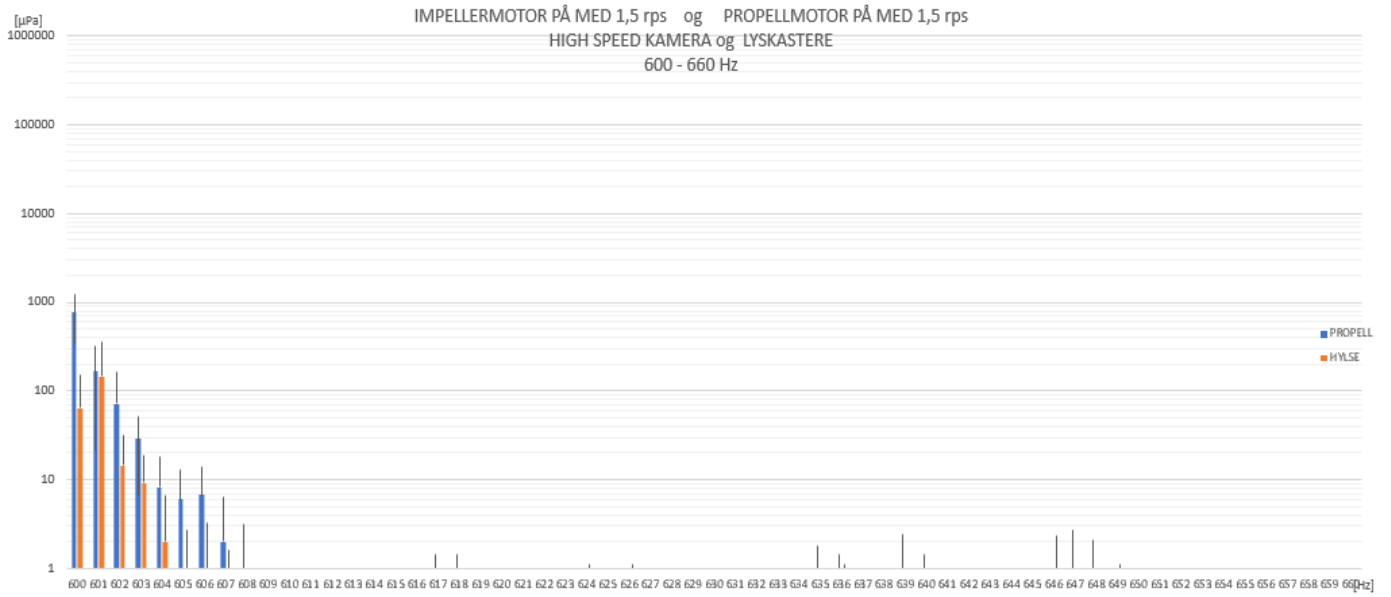
IMPELLERMOTOR PÅ MED 1,5 rps og PROPELLMOTOR PÅ MED 1,5 rps
HIGH SPEED KAMERA og LYSKASTERE
1 - 60Hz



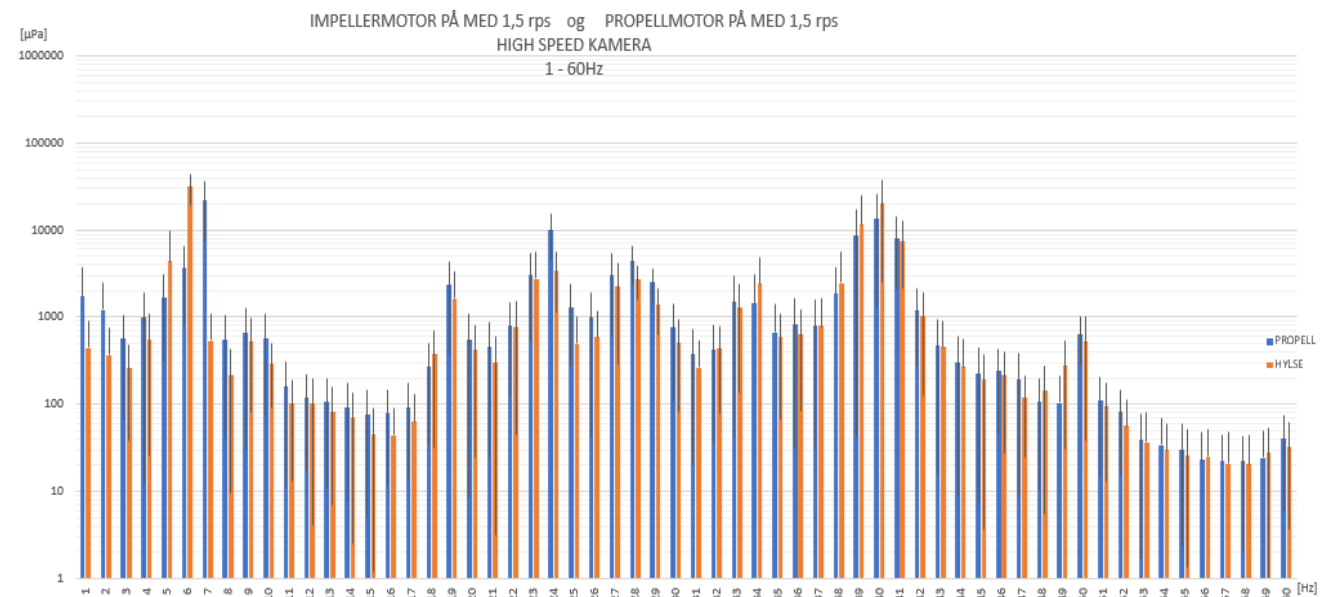
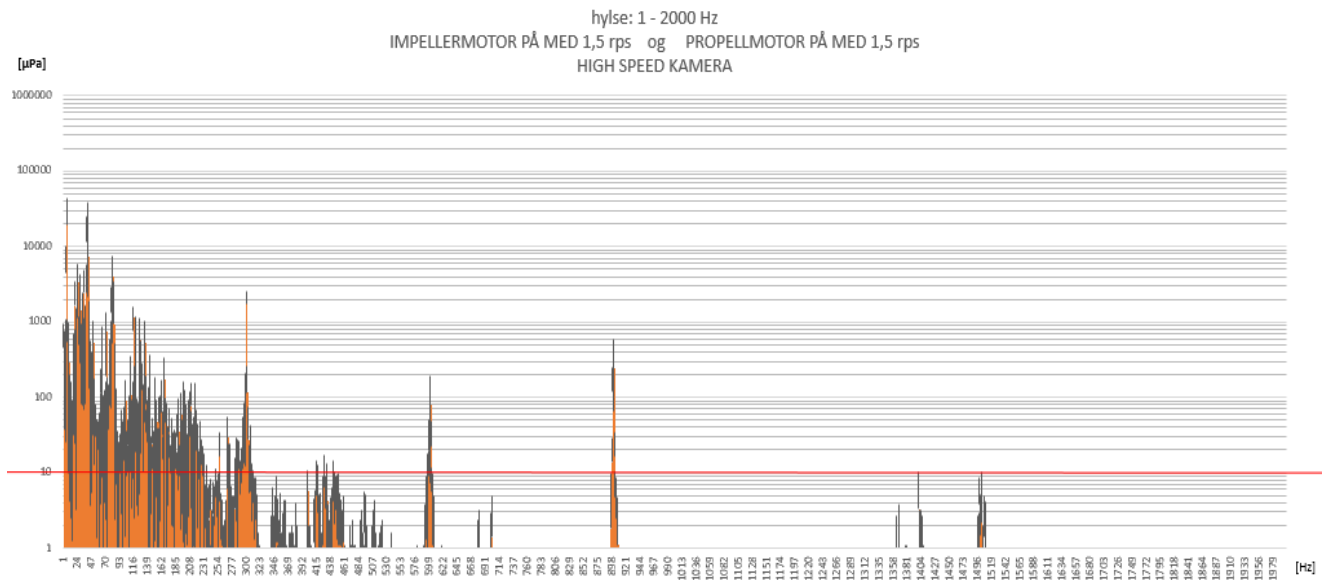
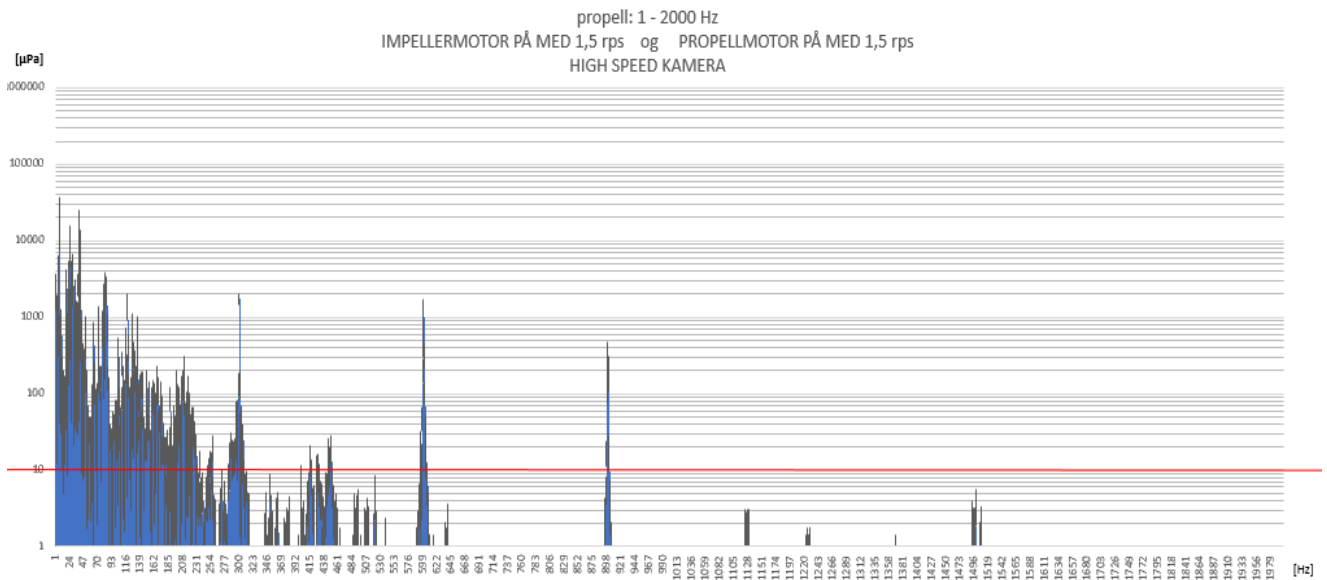


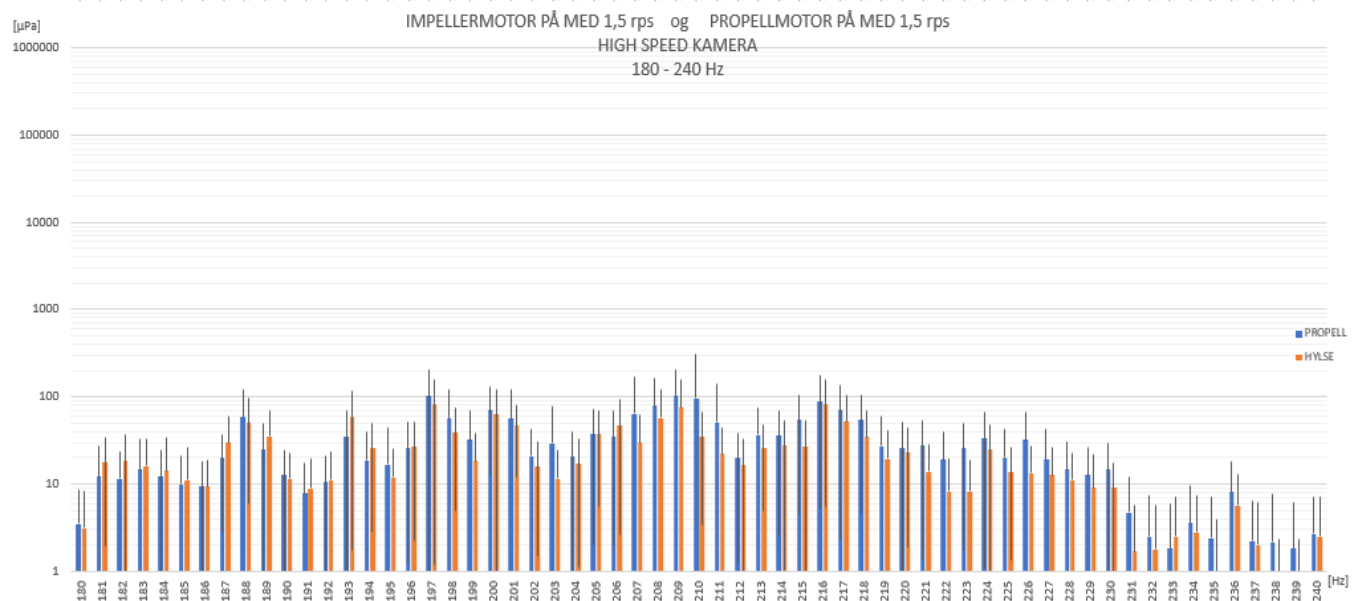
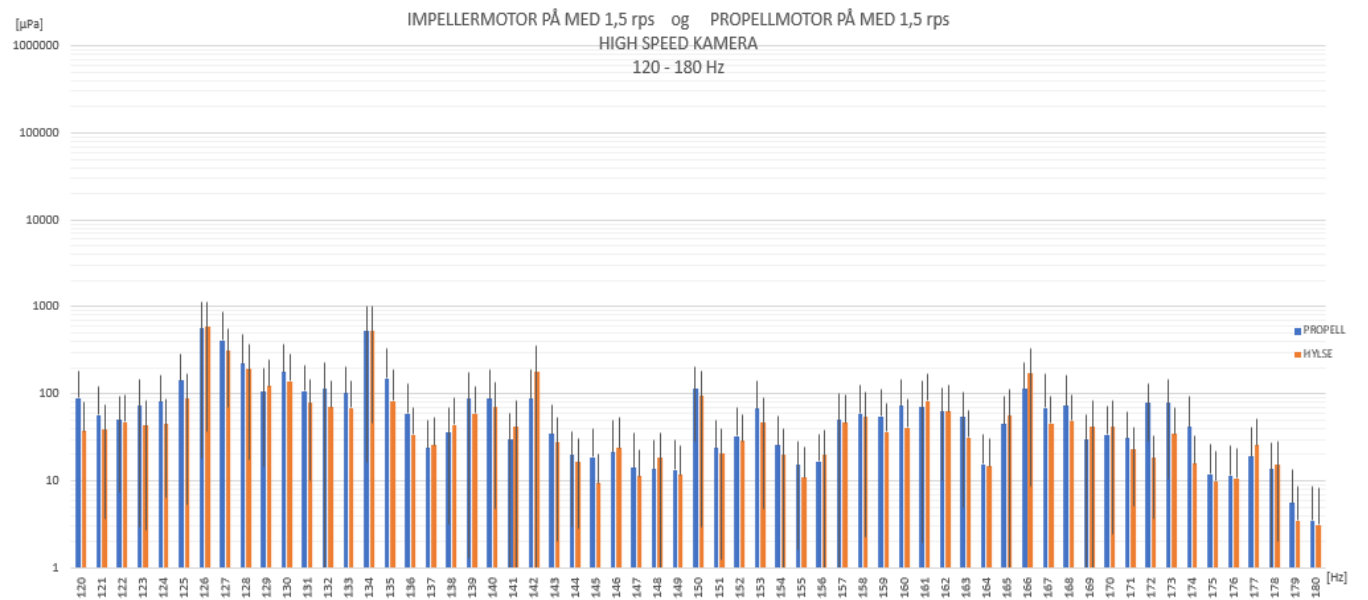
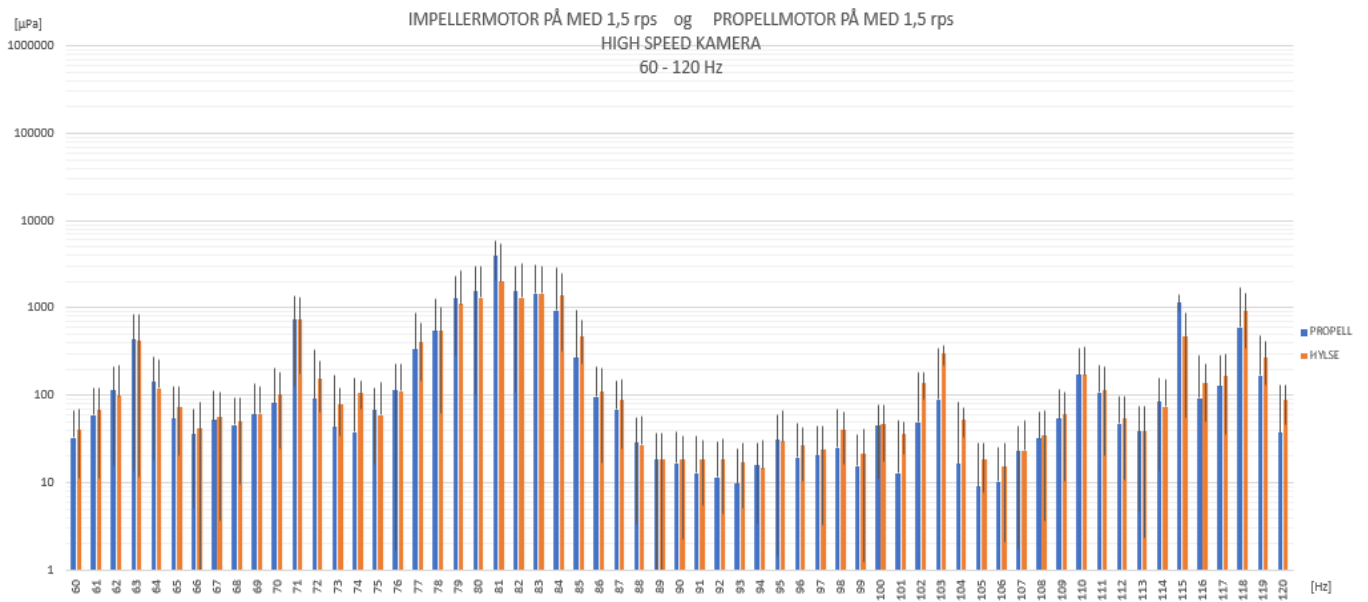


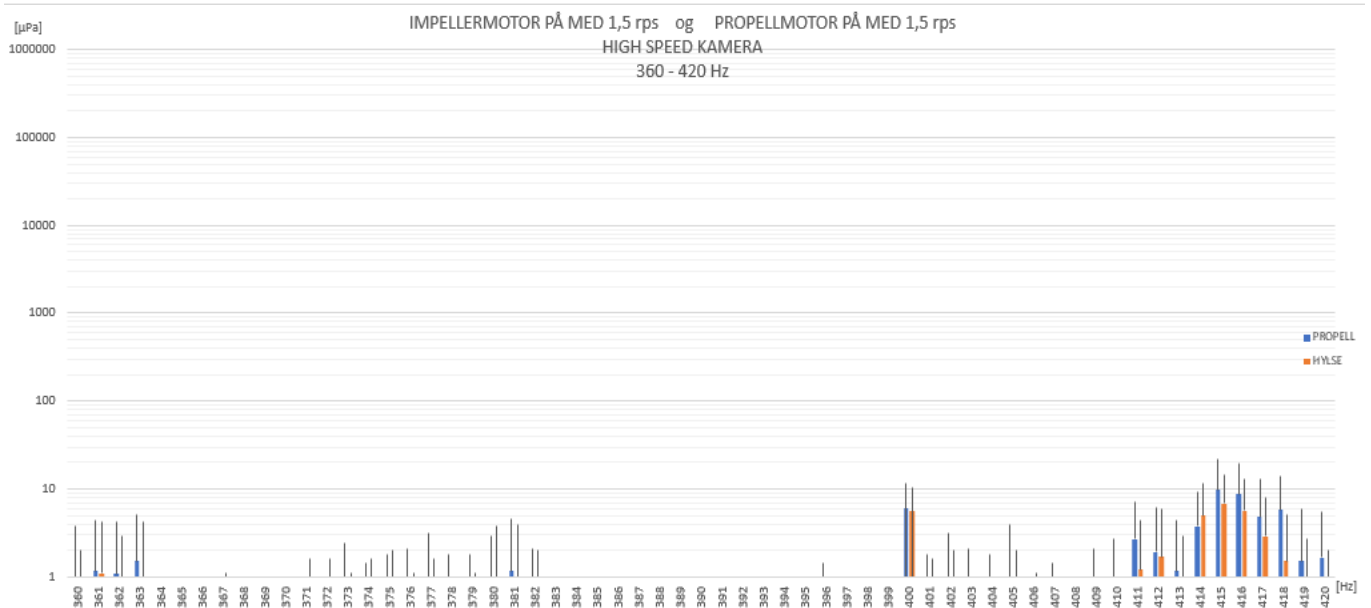
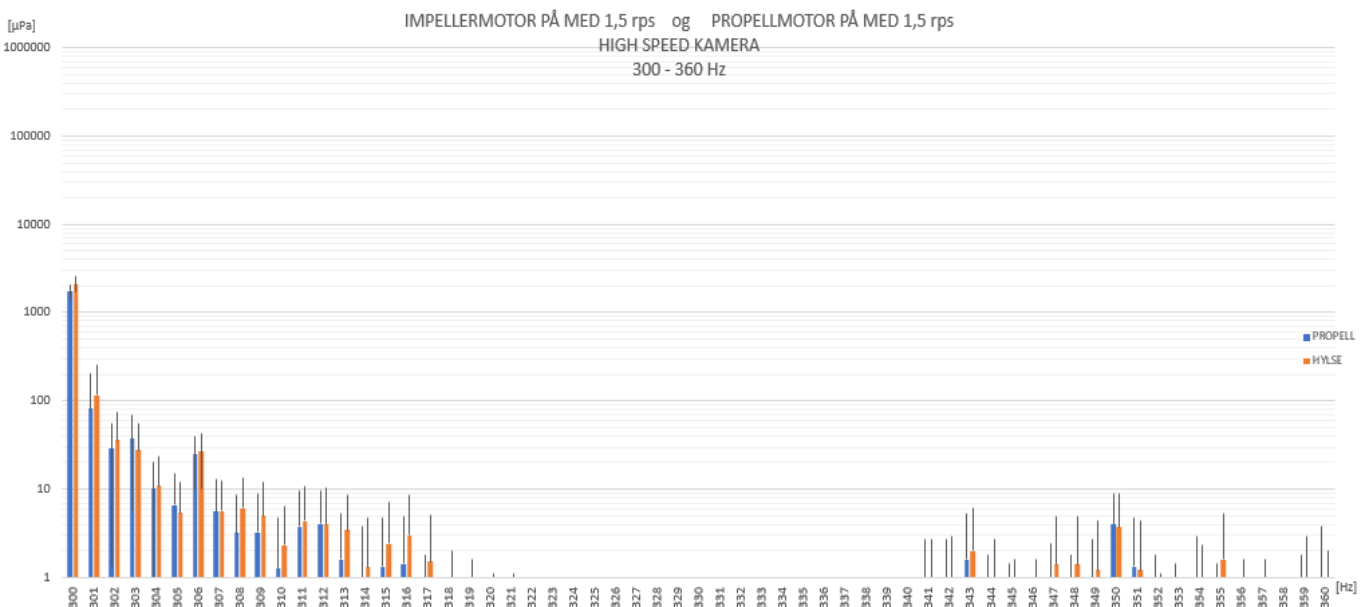
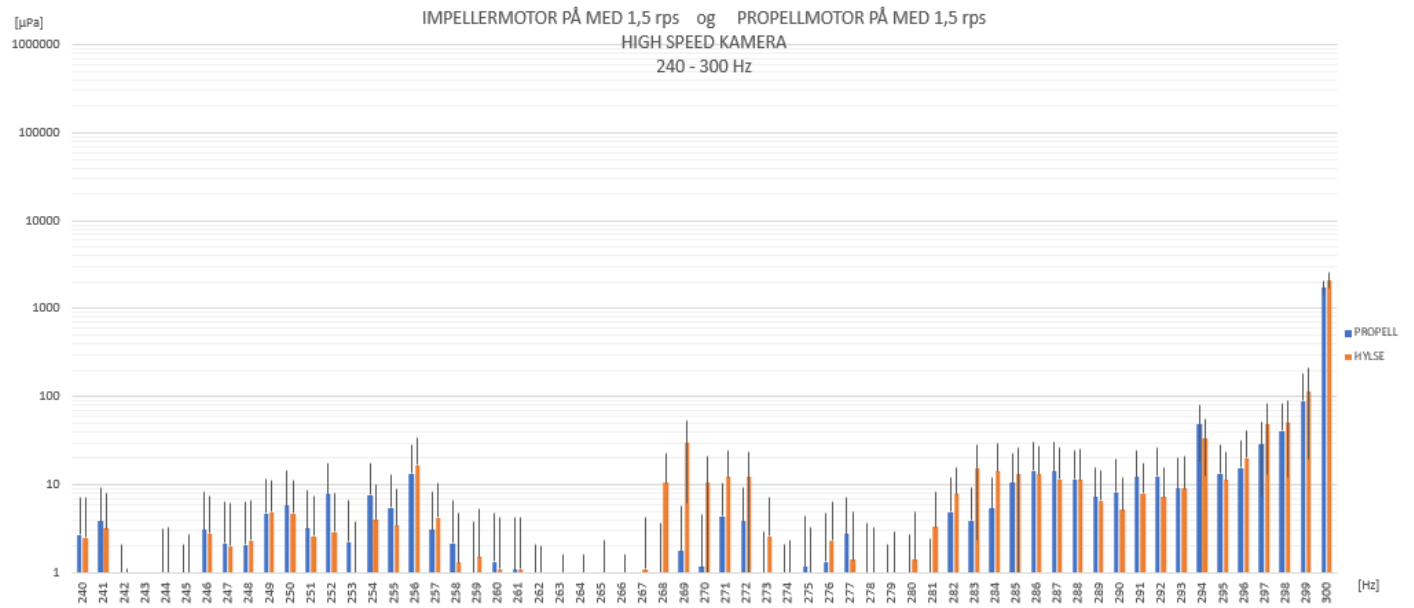


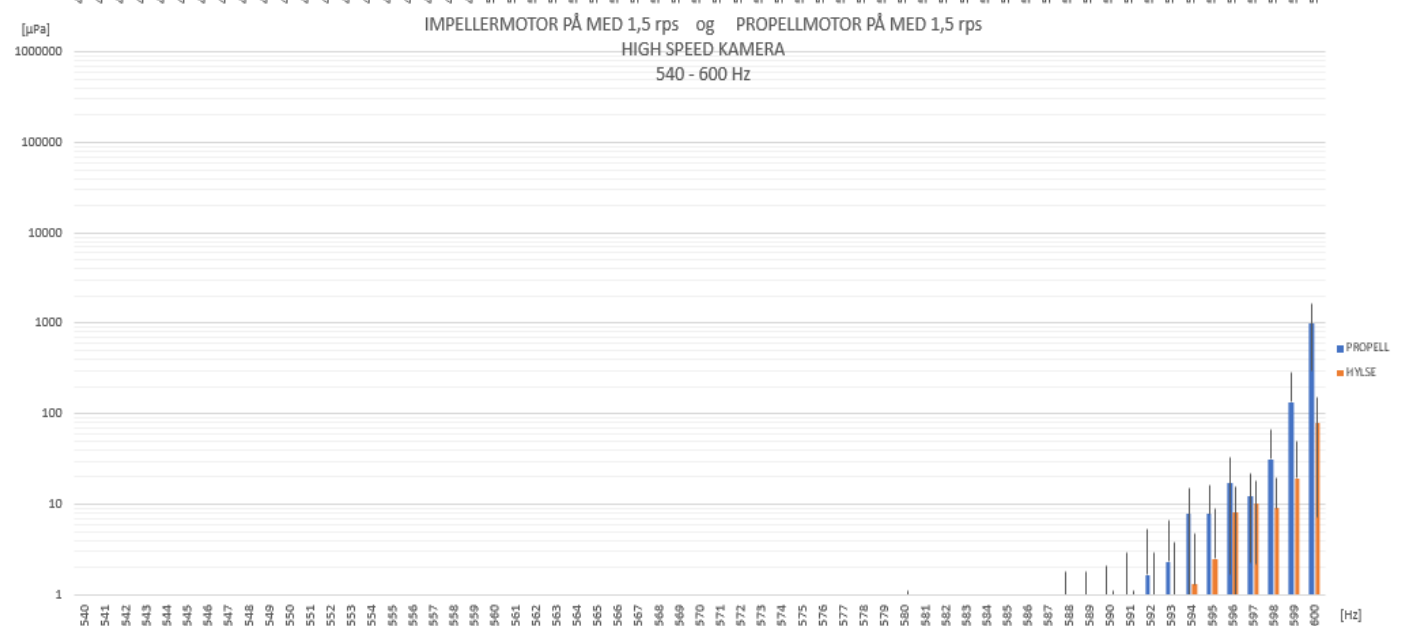
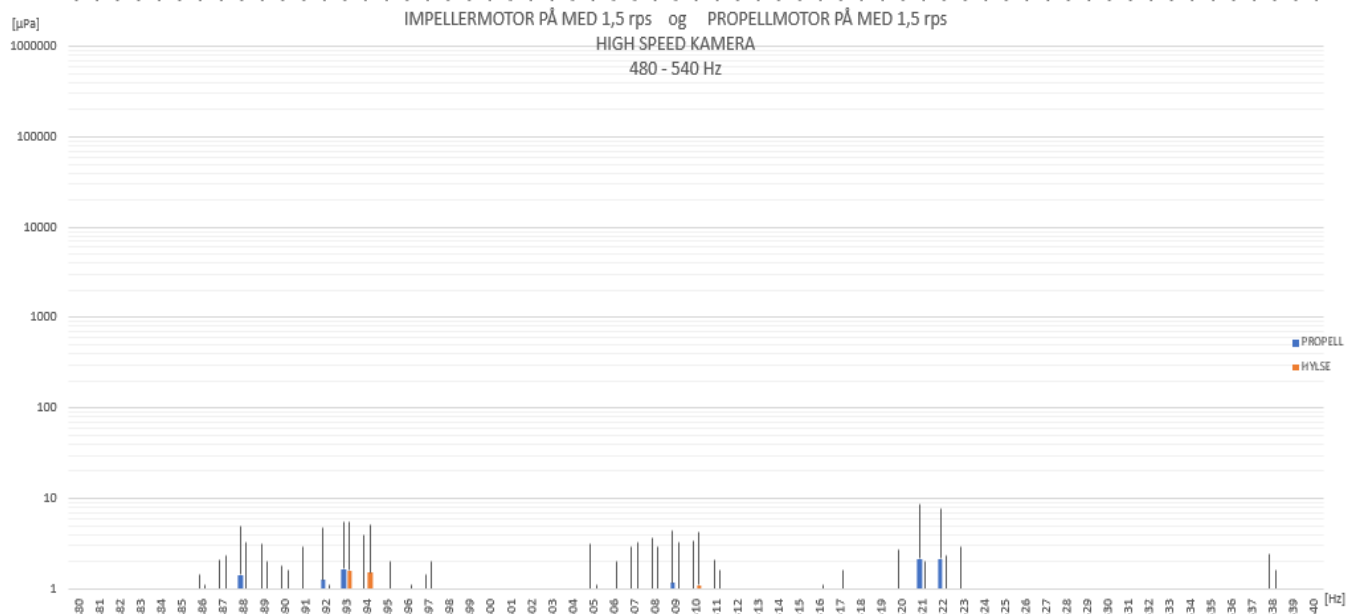
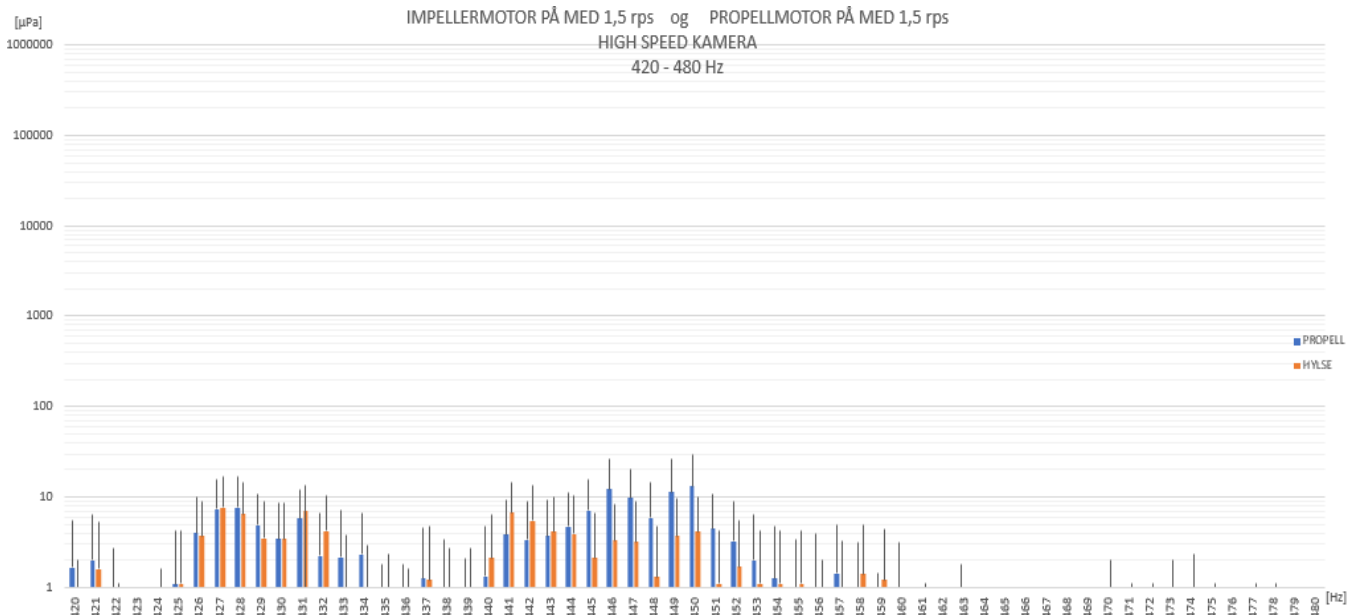


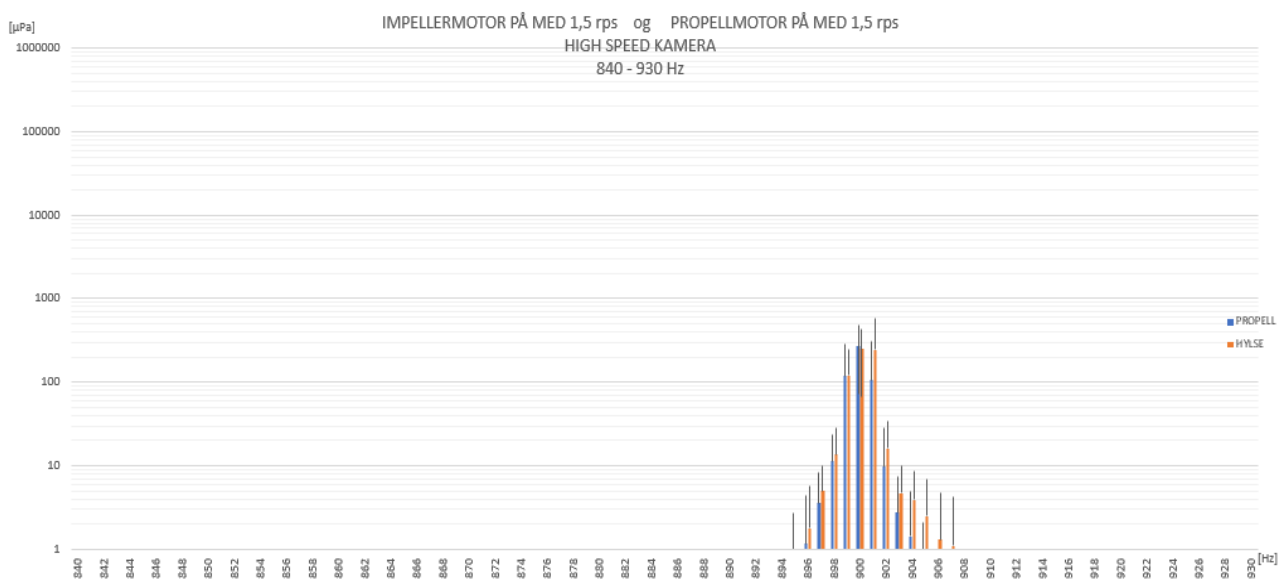
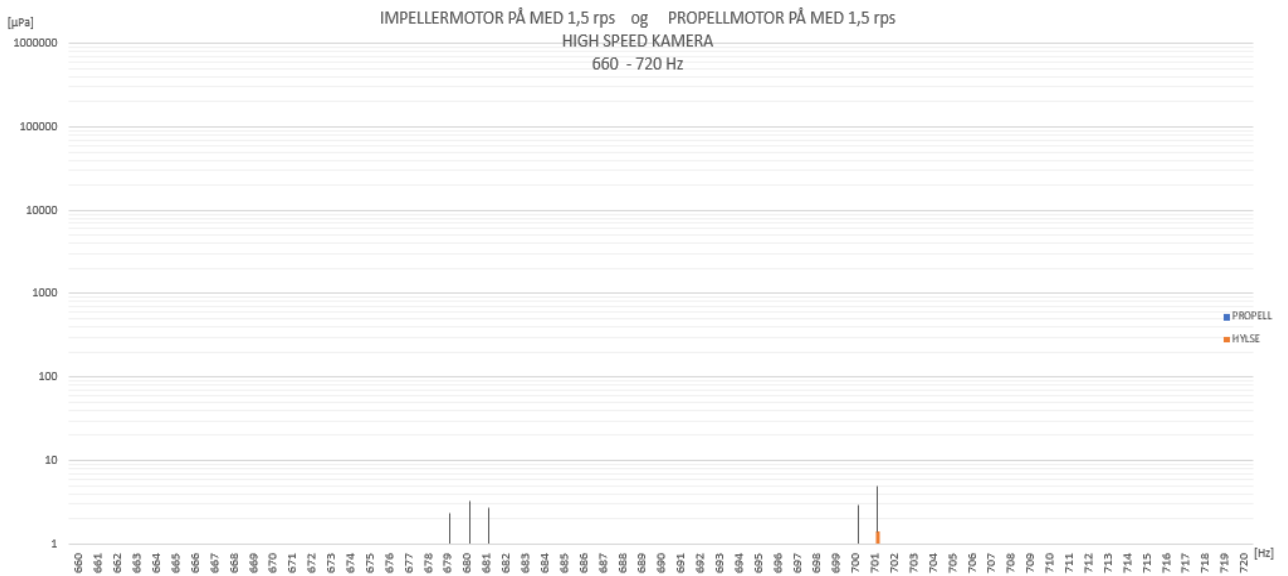
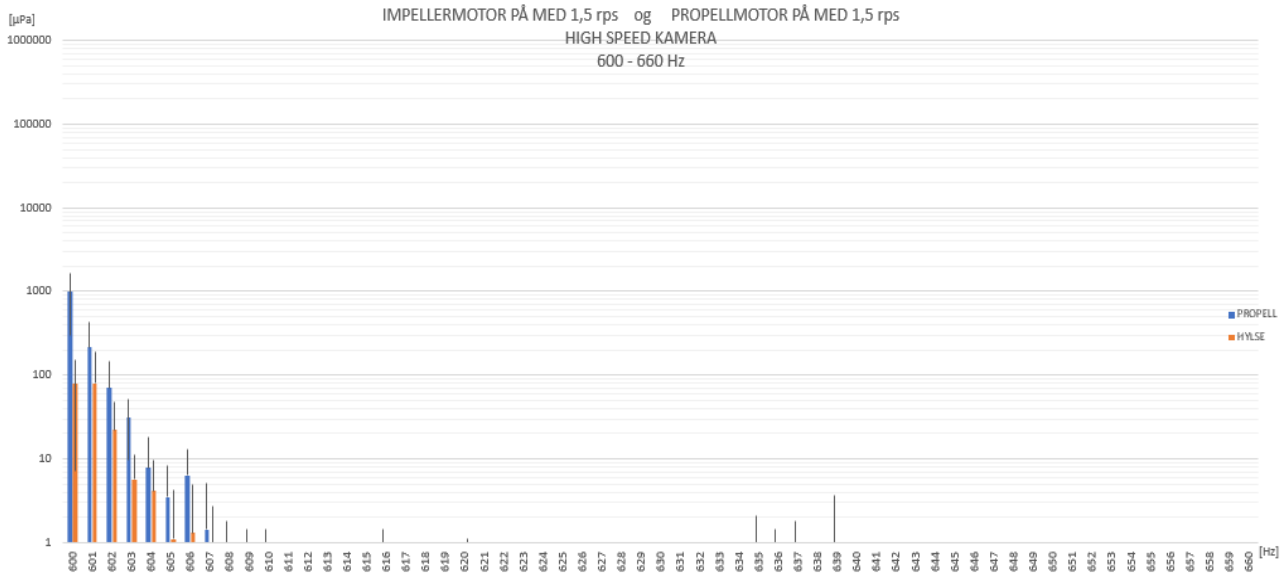
Scenario 19 og 39: Tabeller med impeller satt til 1,5rps, propellmotor går med 1,5rps. I tillegg er kamera innkoblet. Med og uten propell



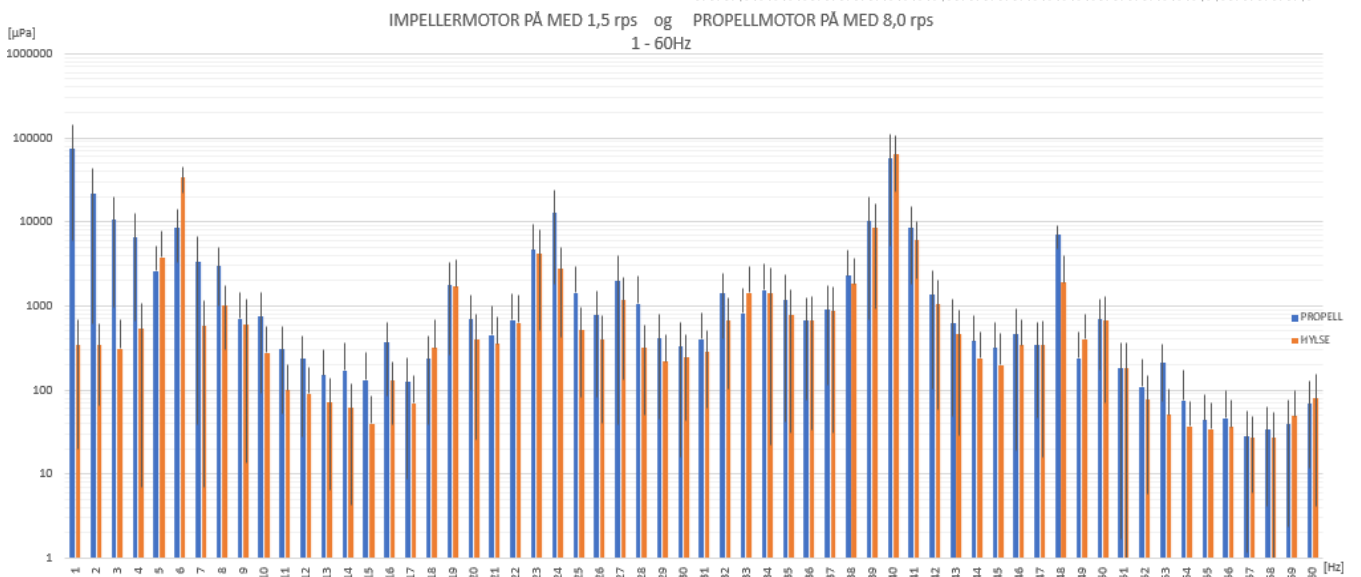
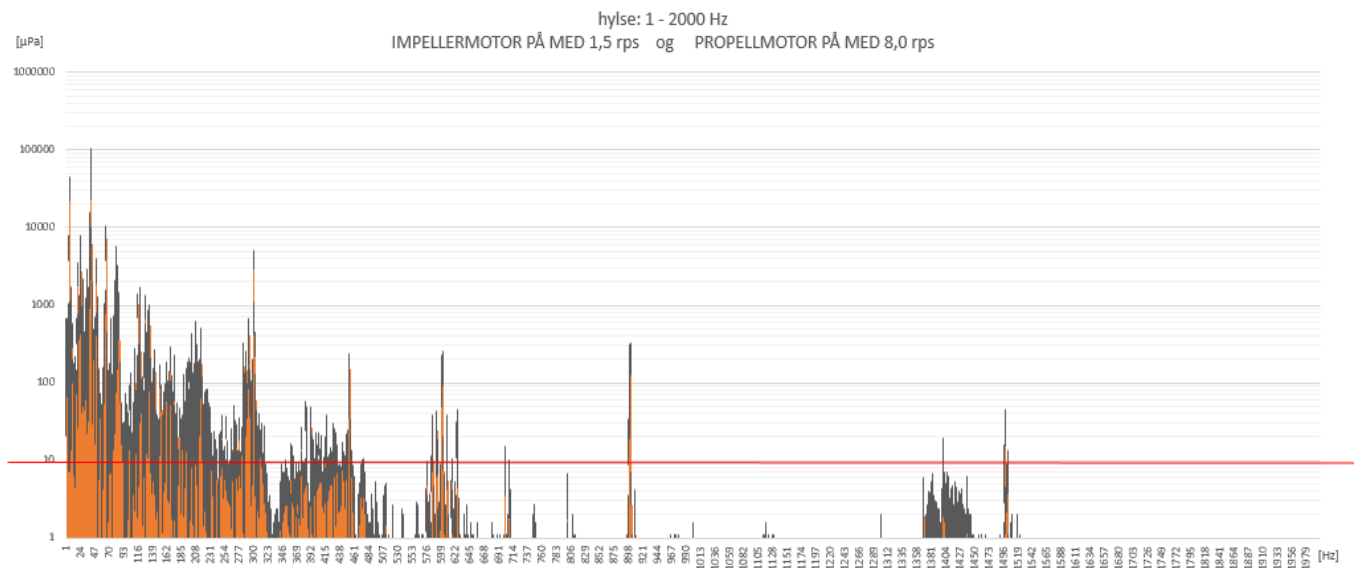
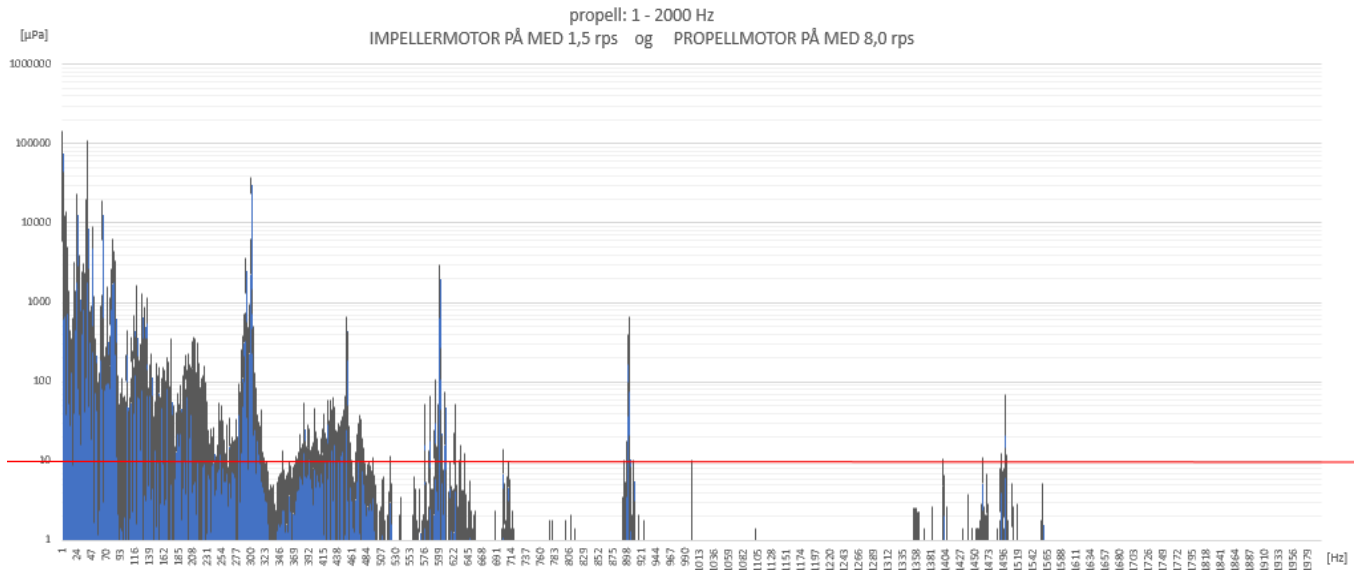


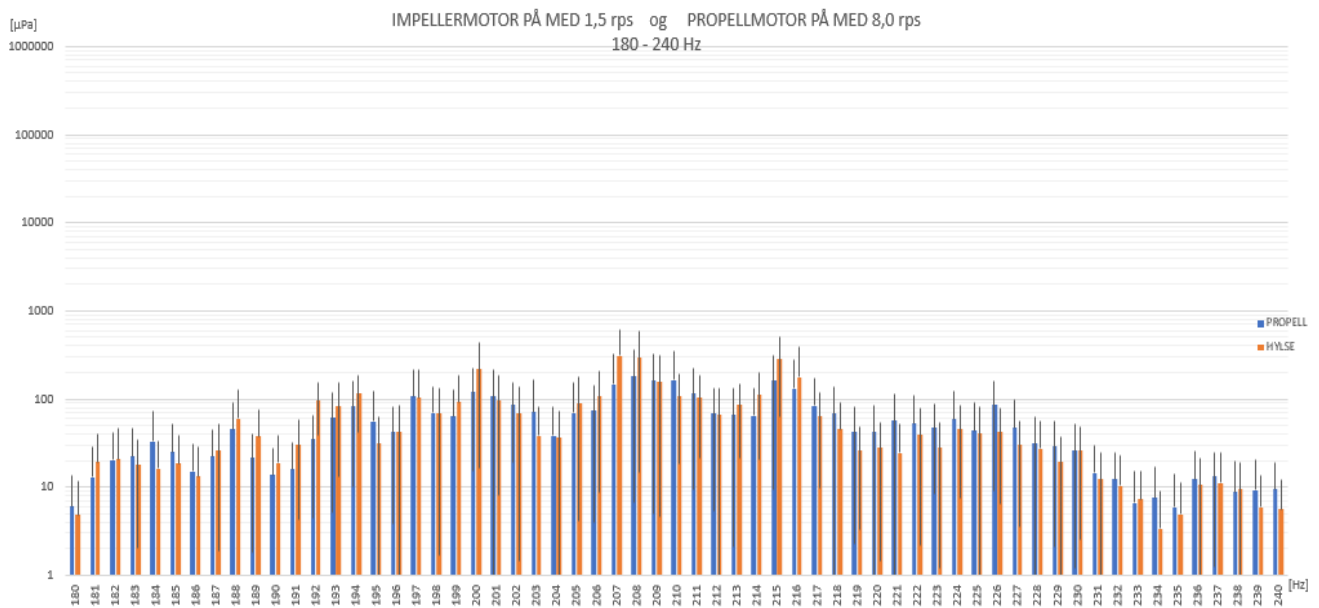
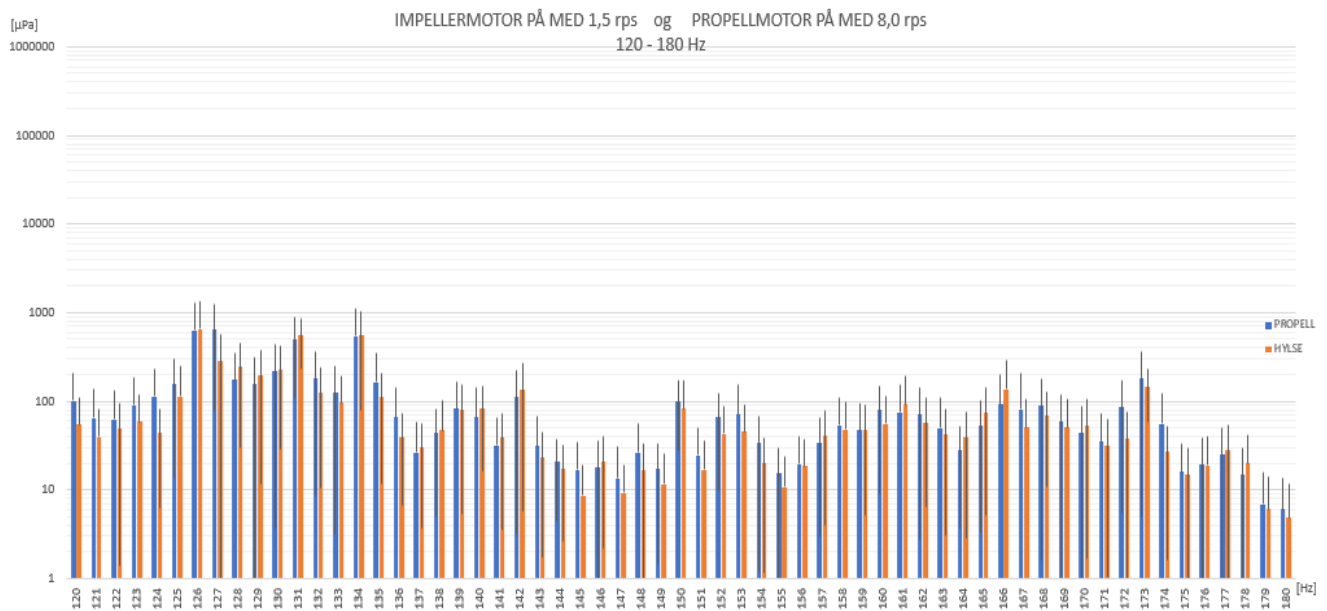
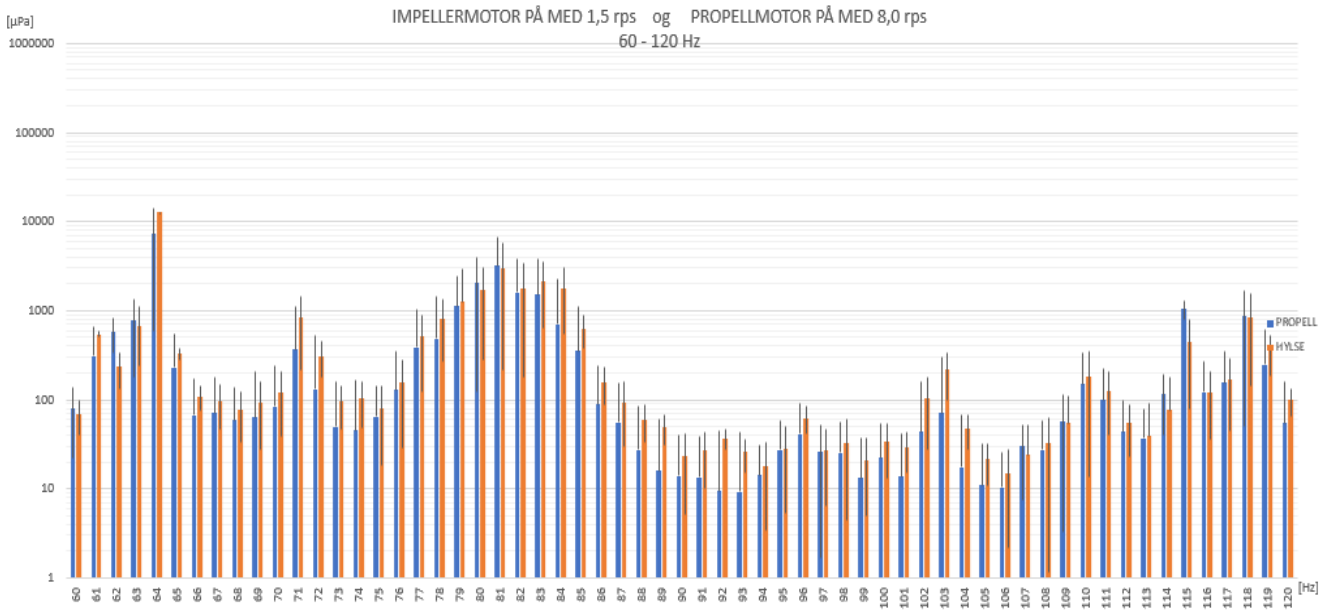


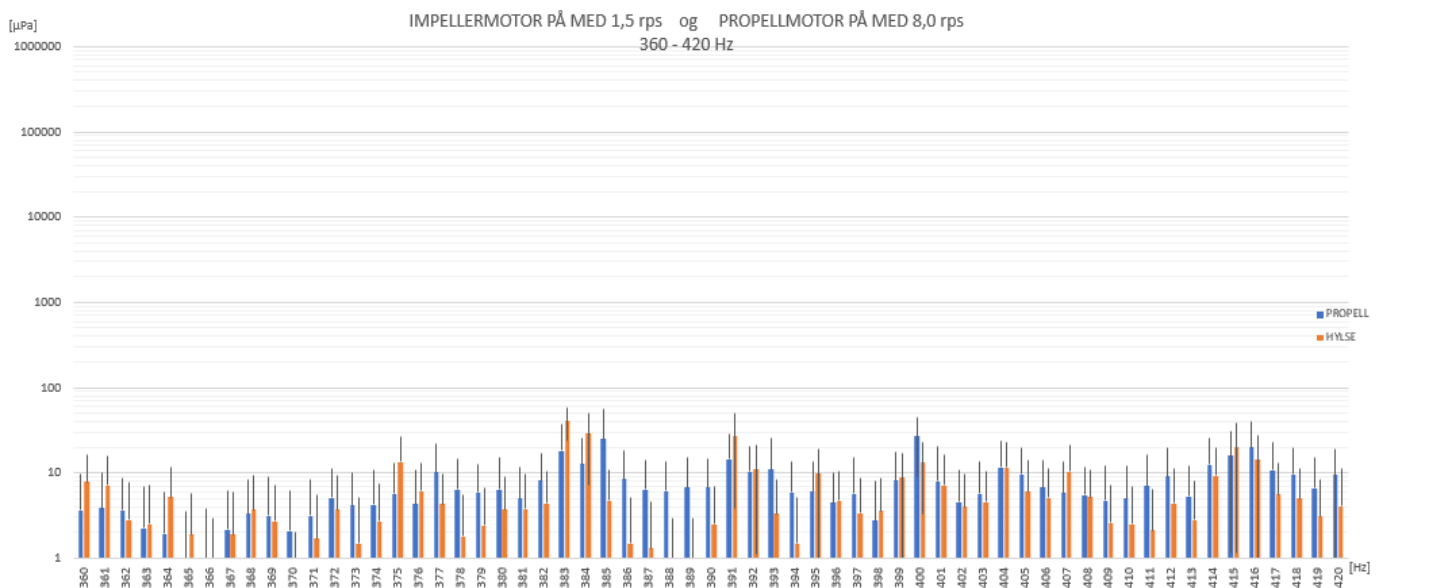
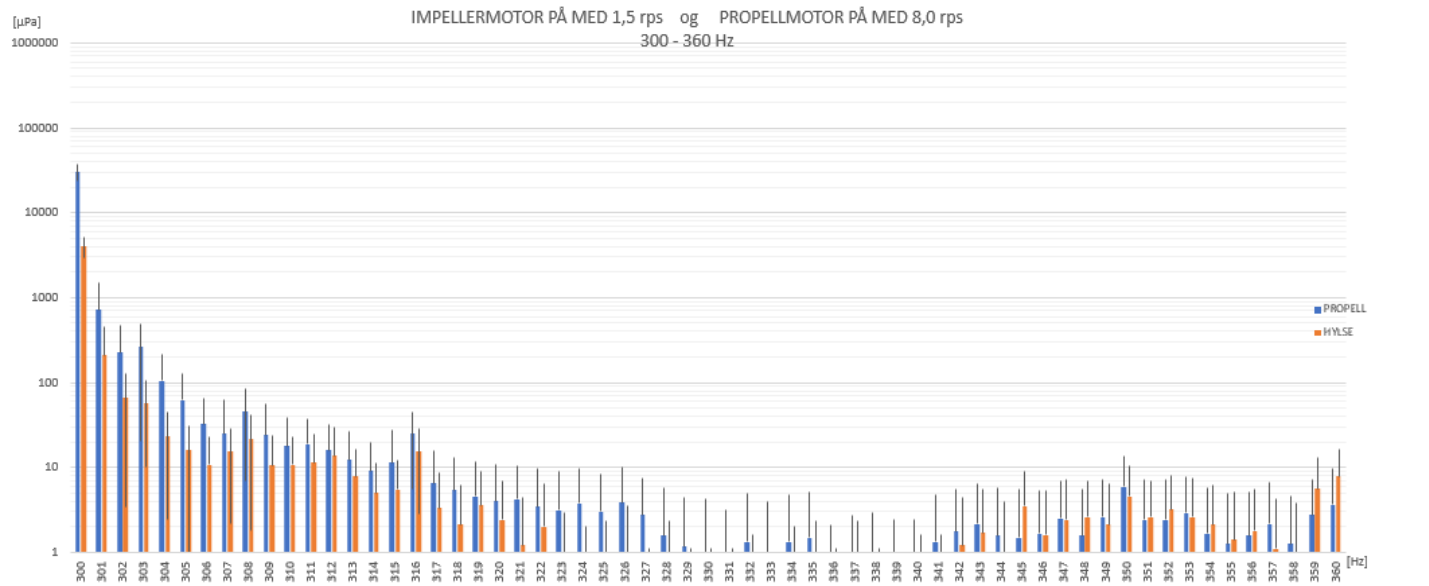
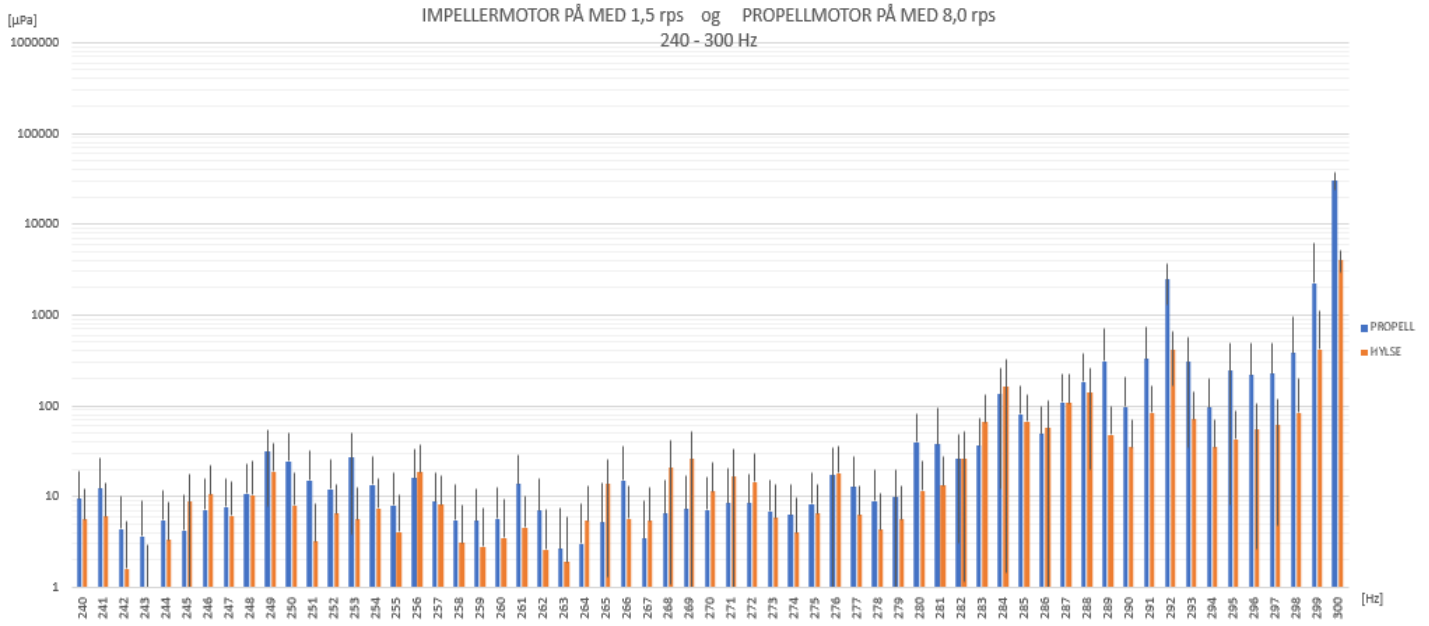


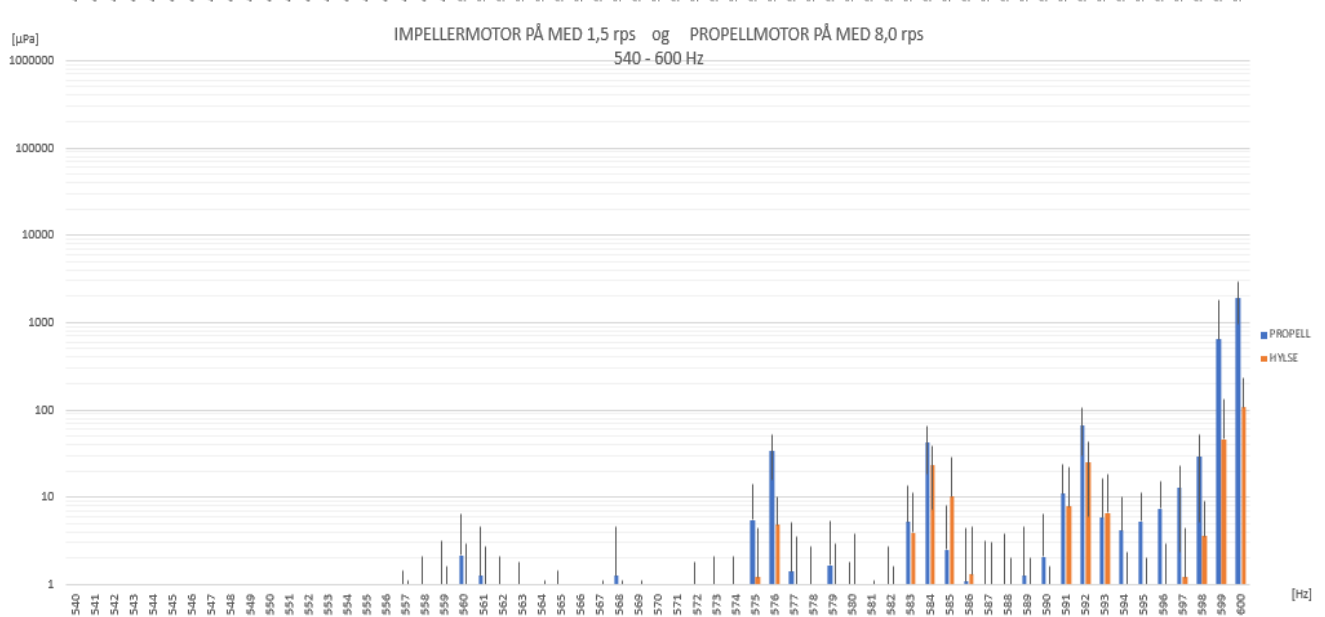
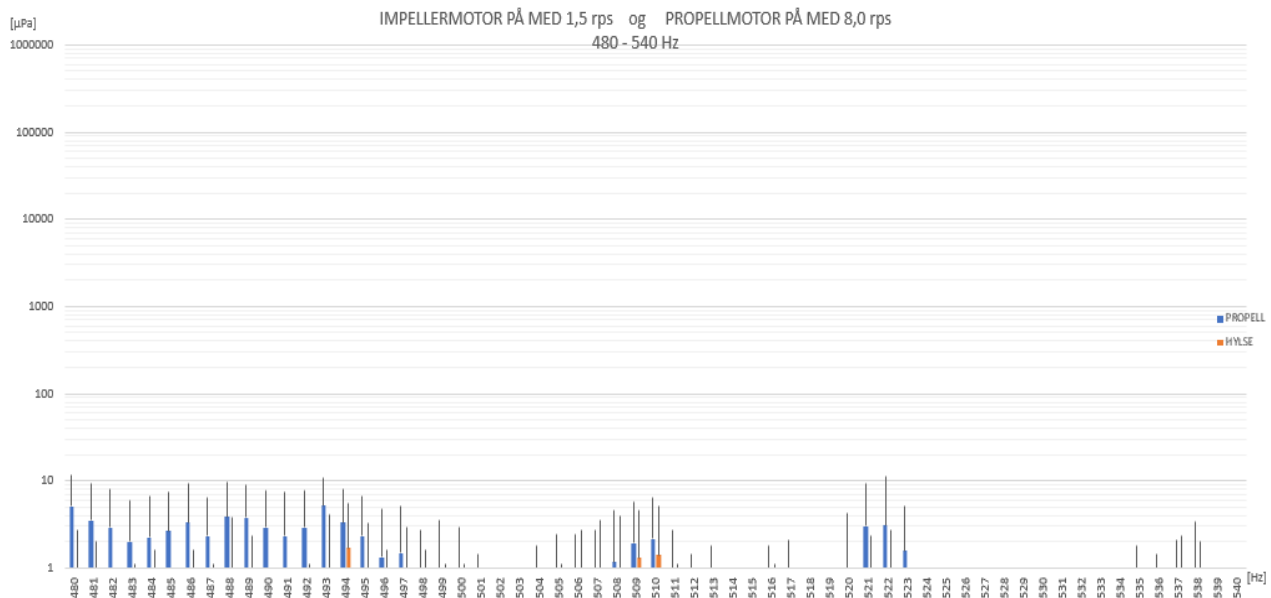
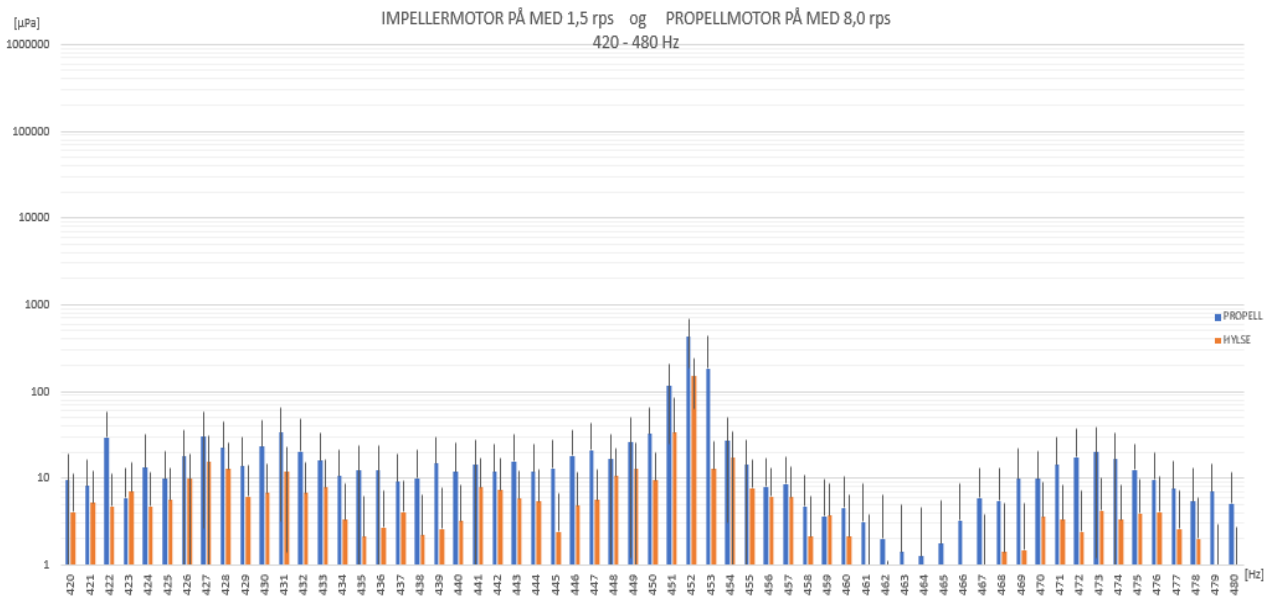


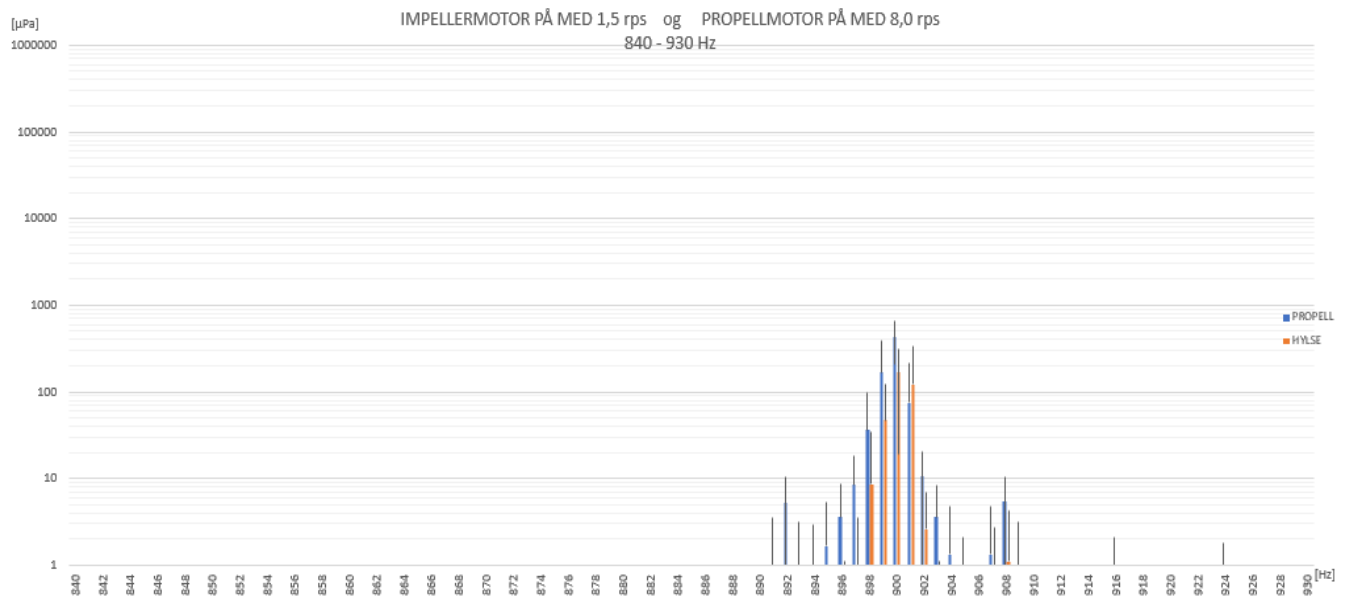
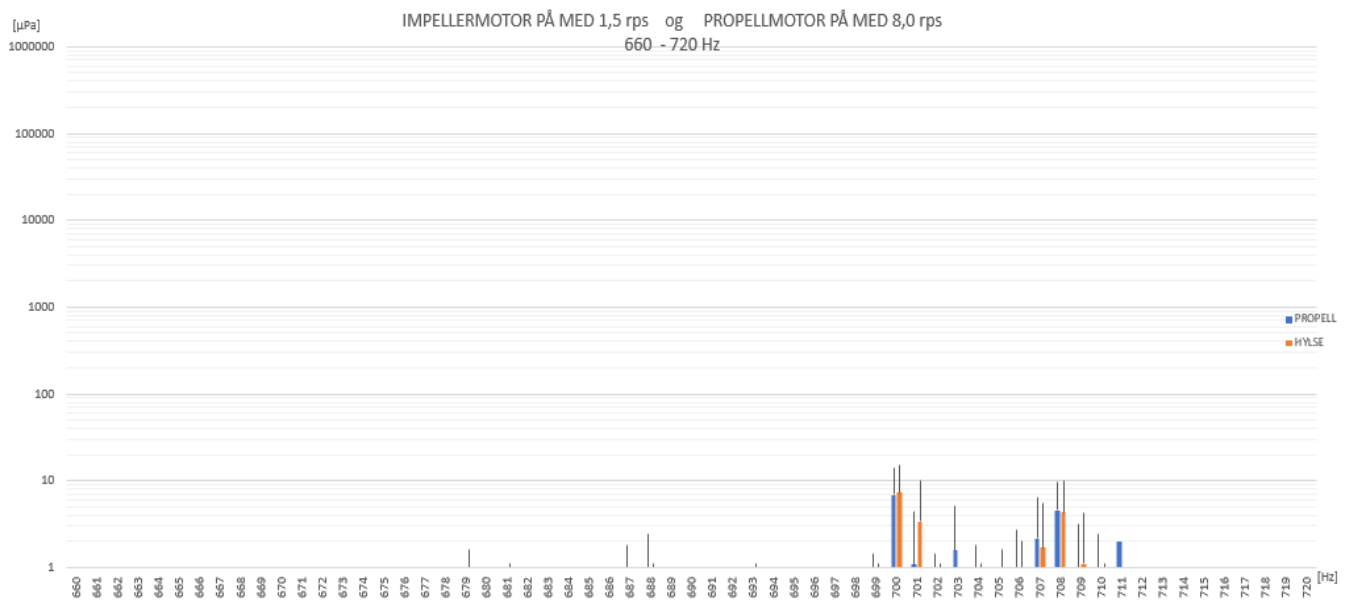
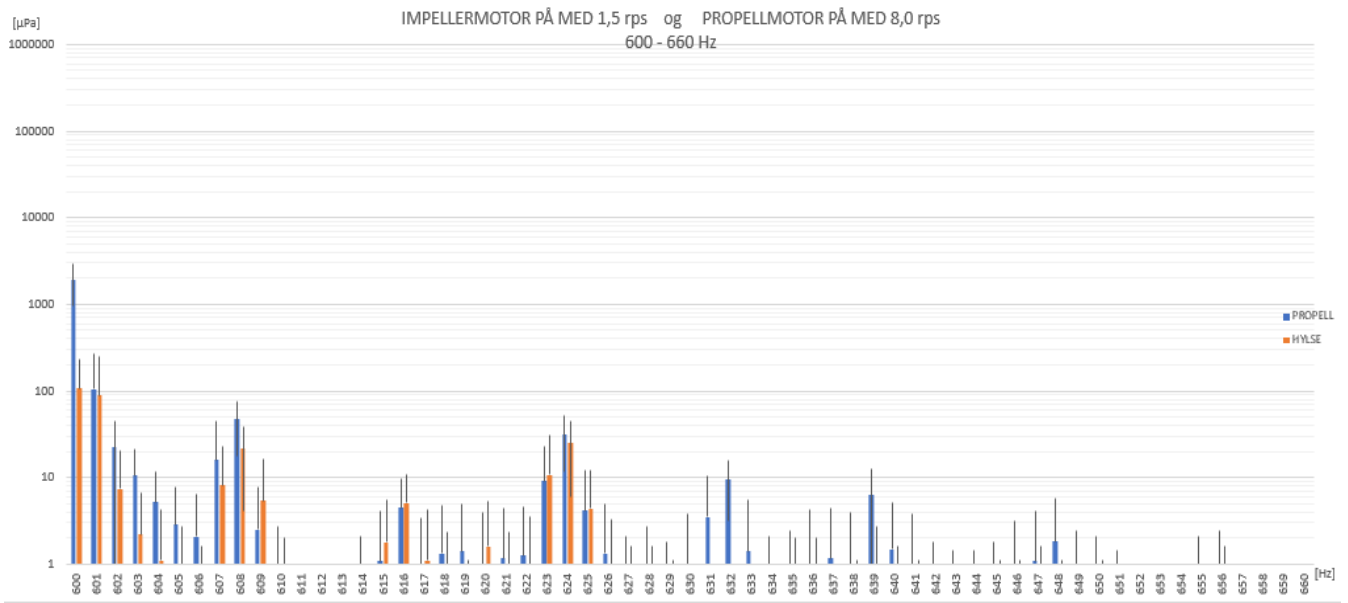
Scenario 20 og 40: Tabeller med impeller satt til 1,5rps, propellmotor går med 8rps. Med og uten propell



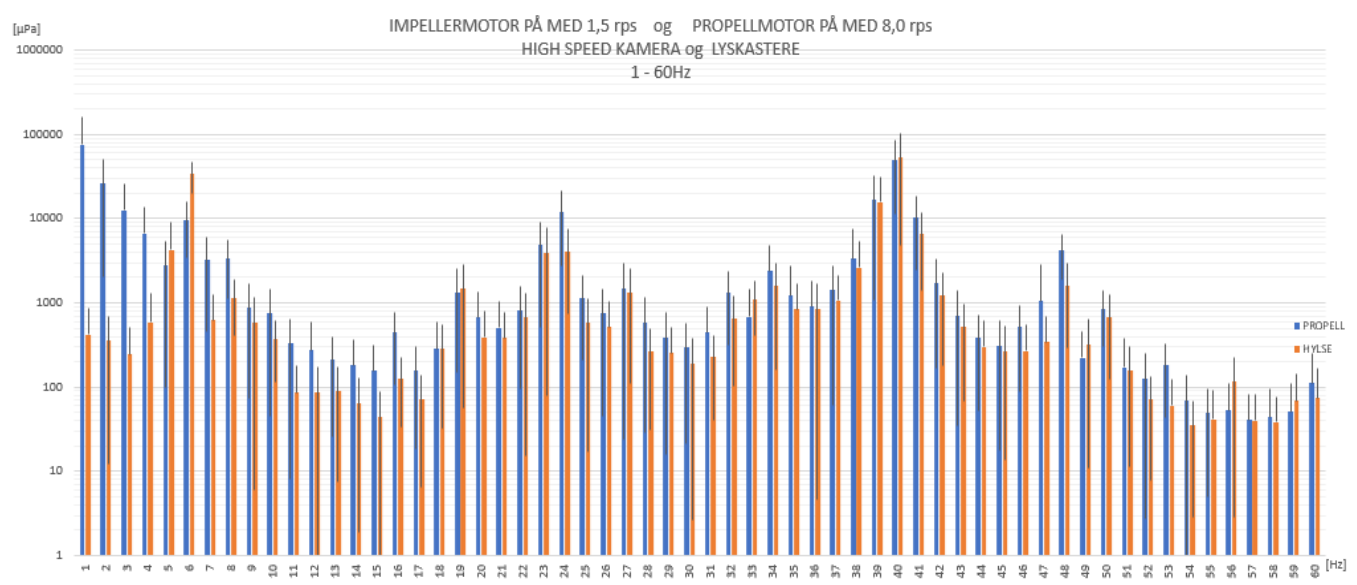
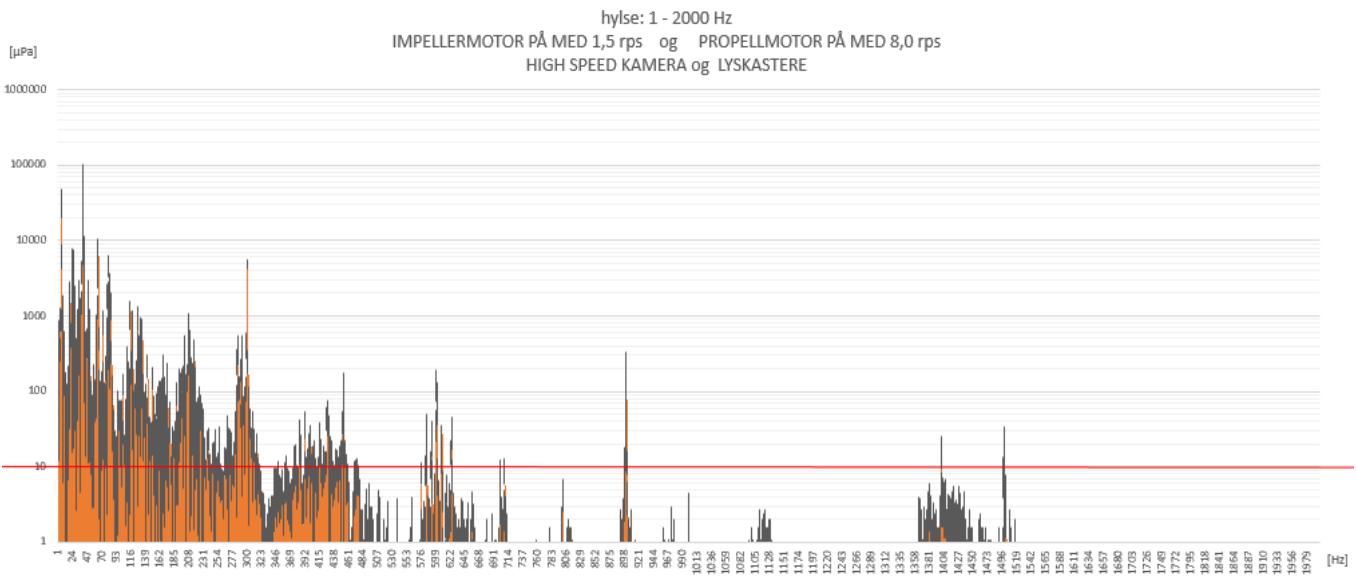
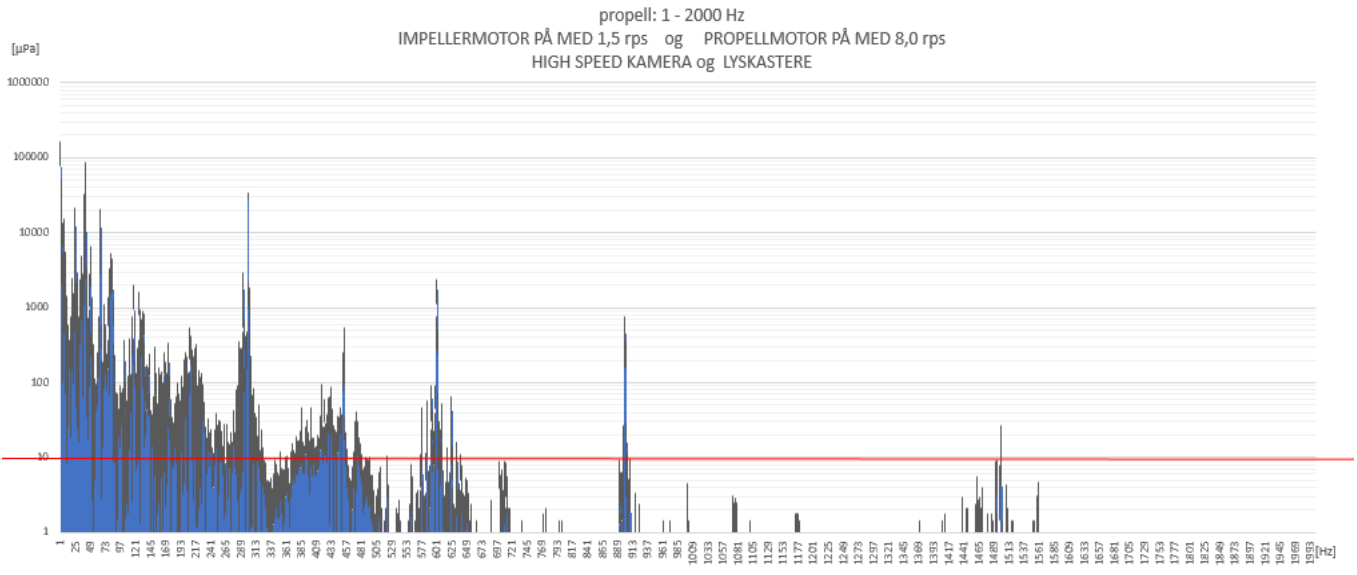


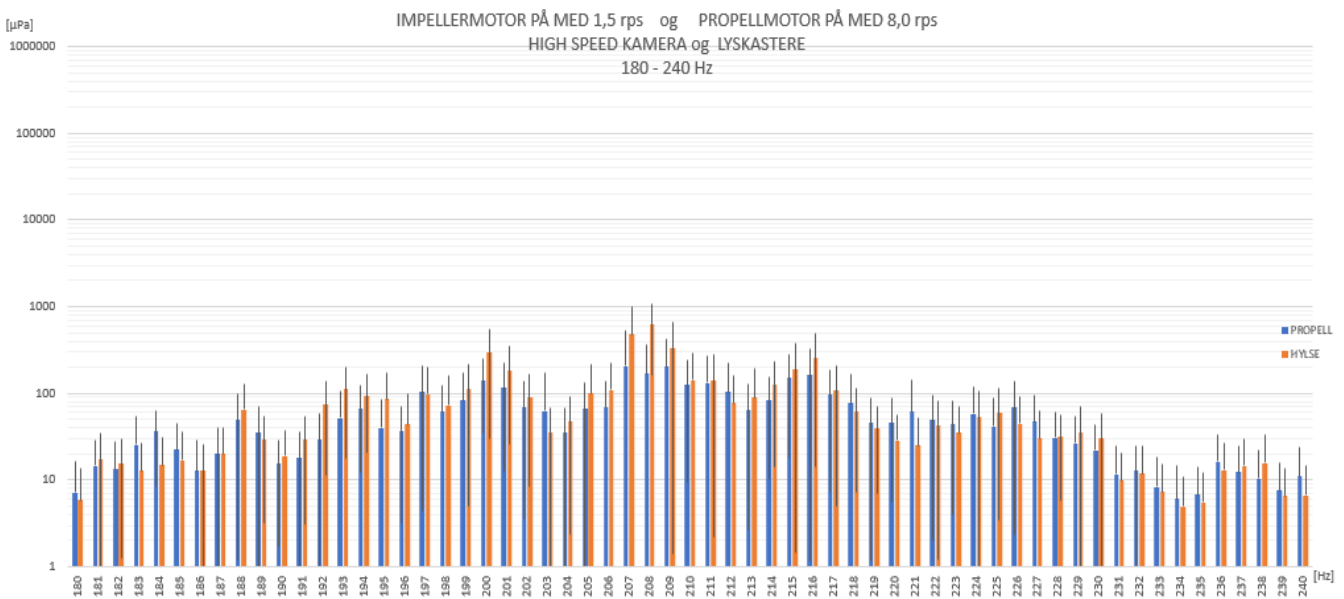
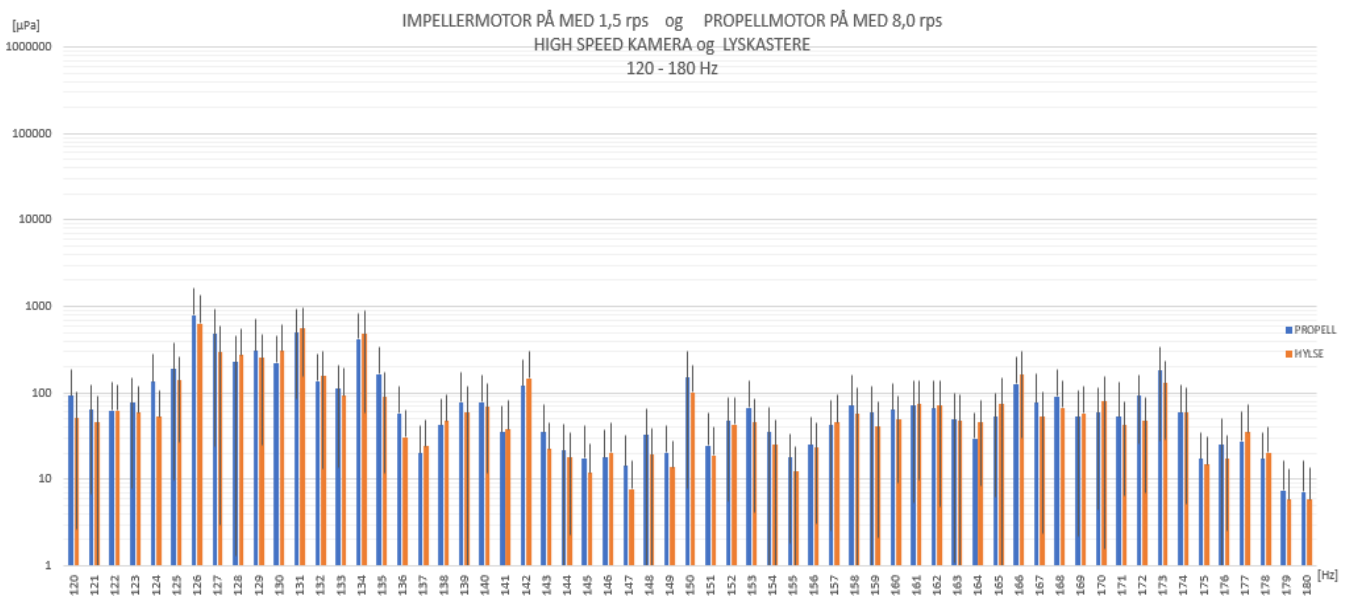
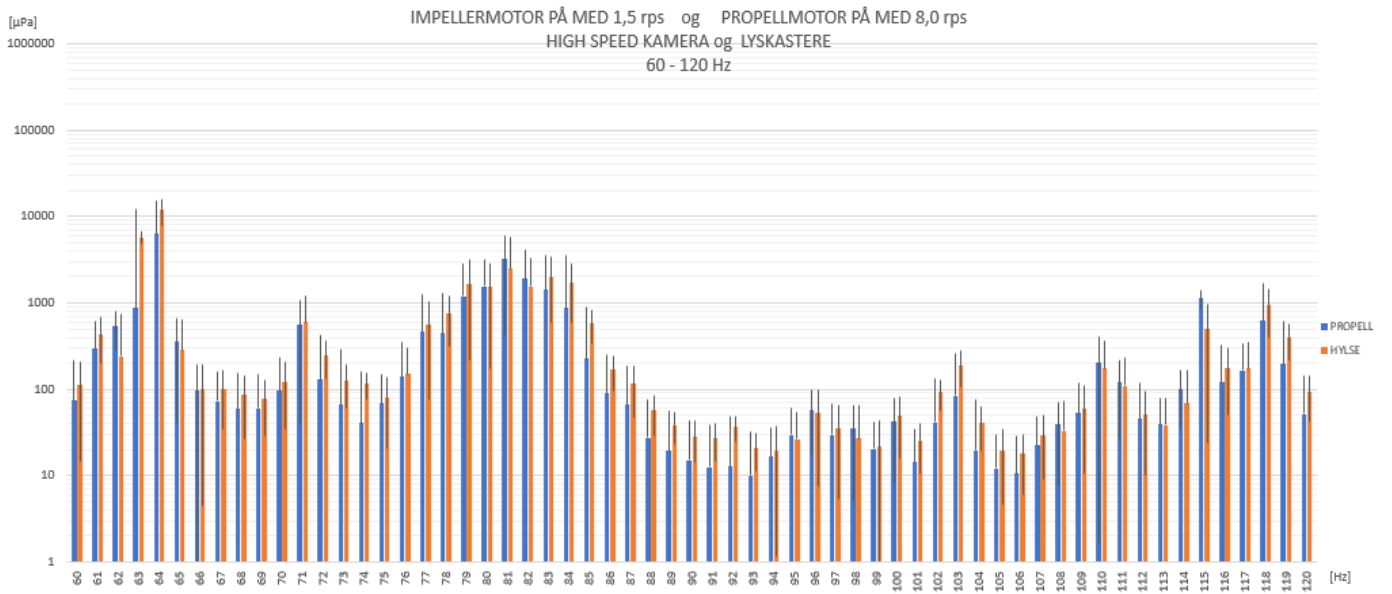


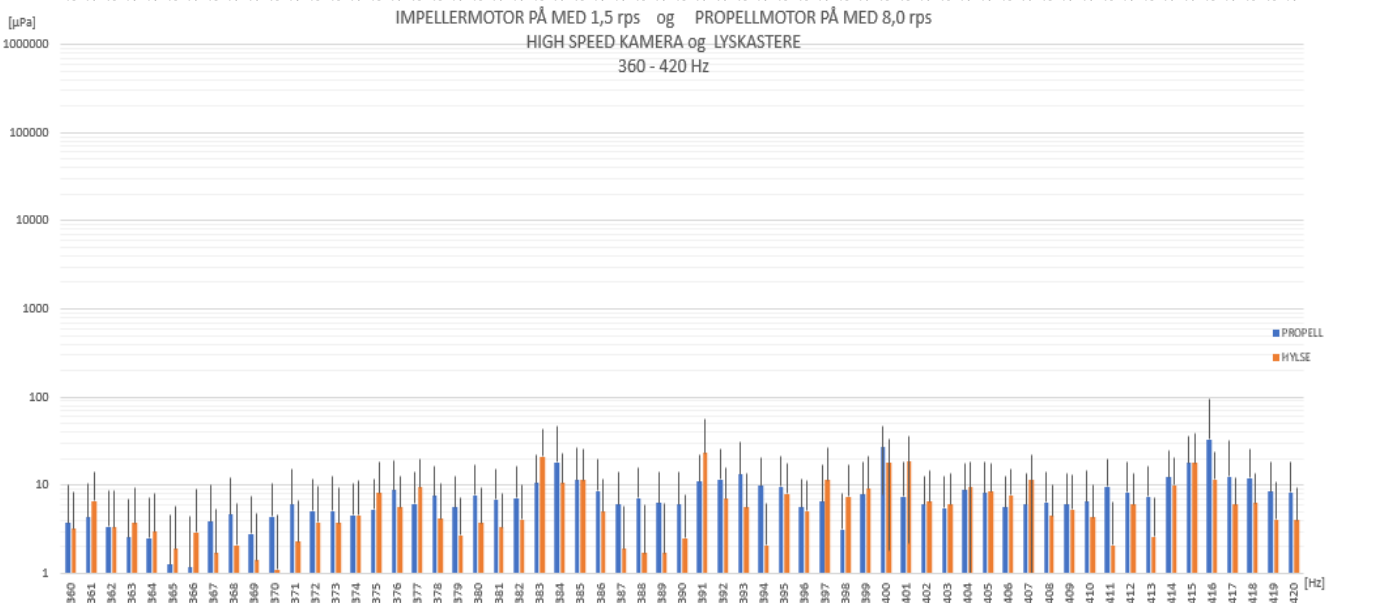
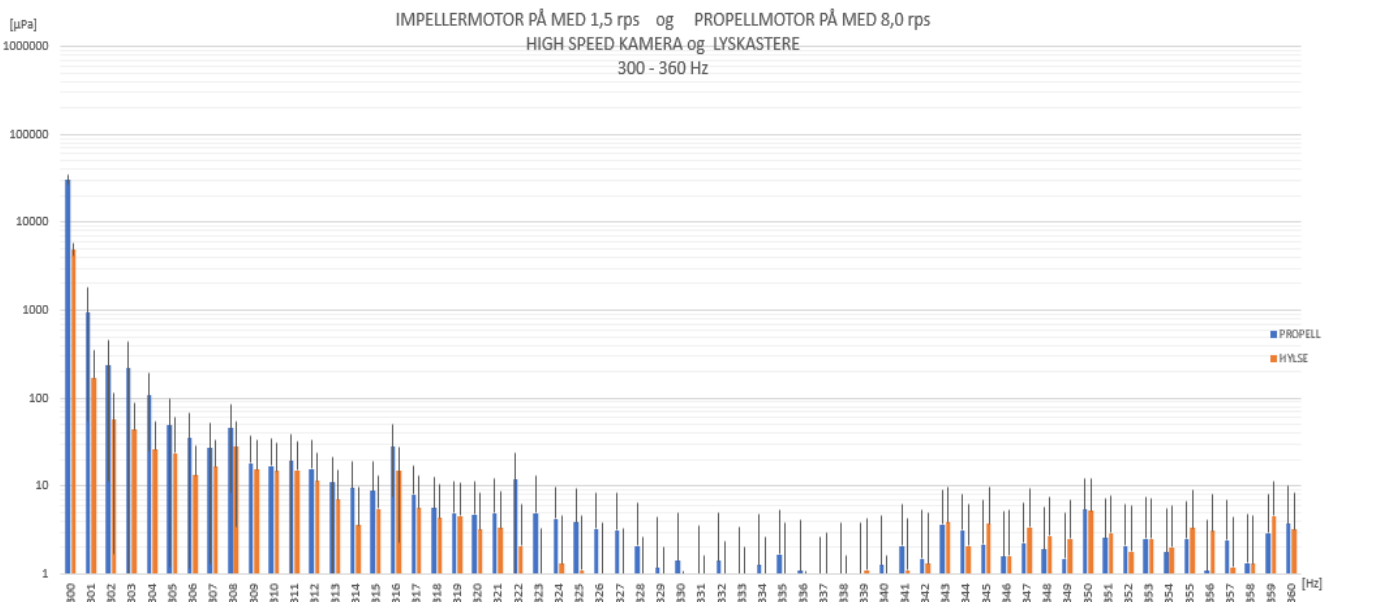
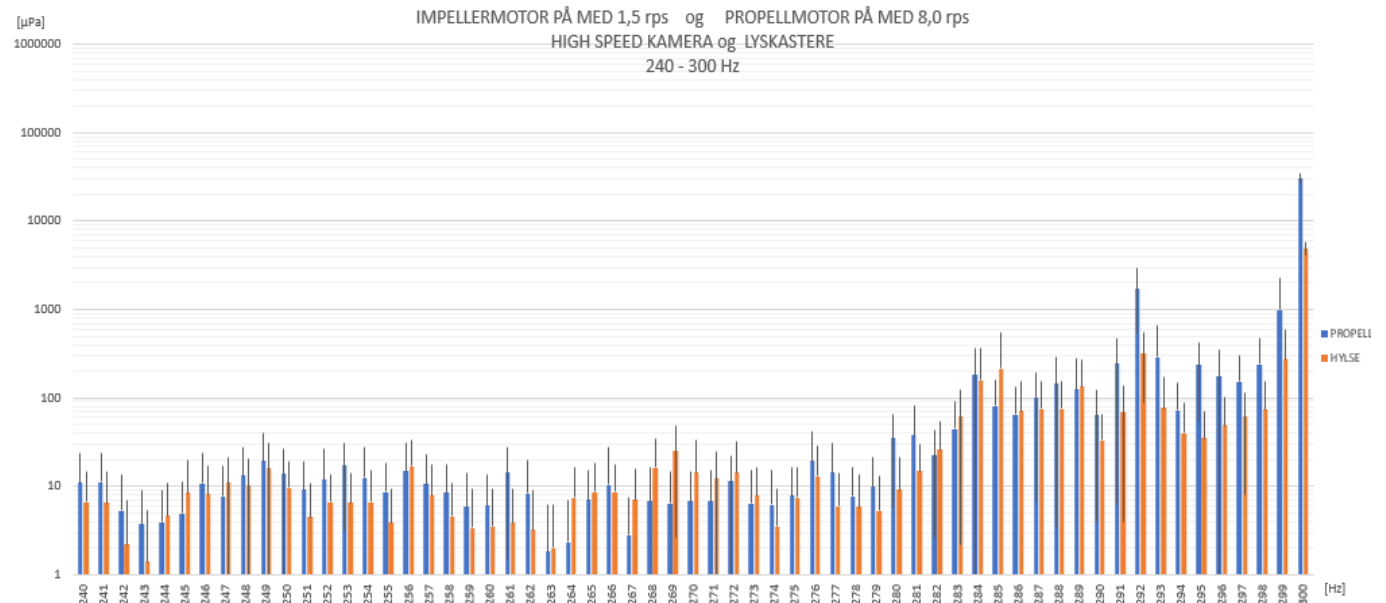


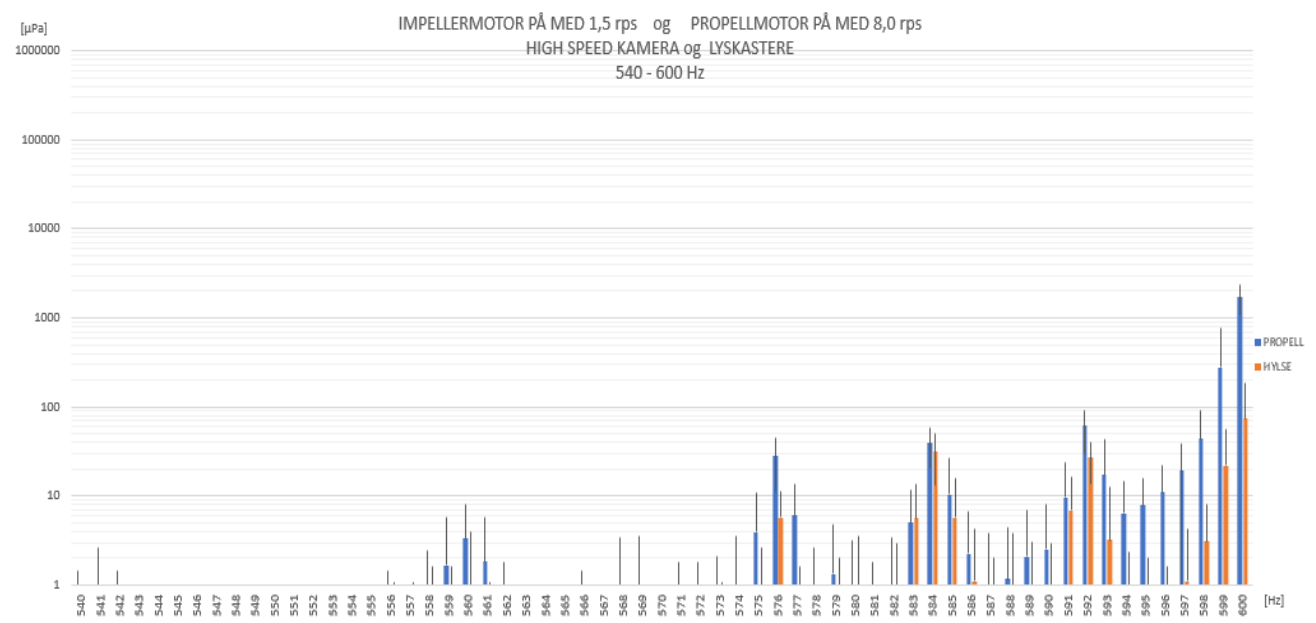
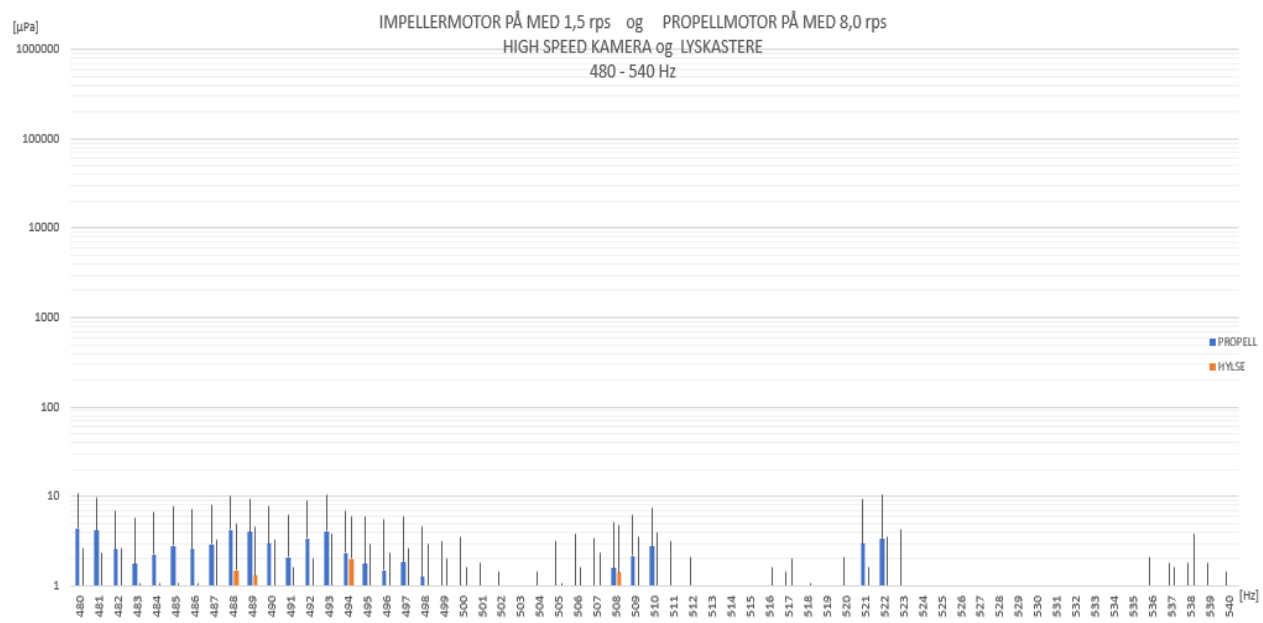
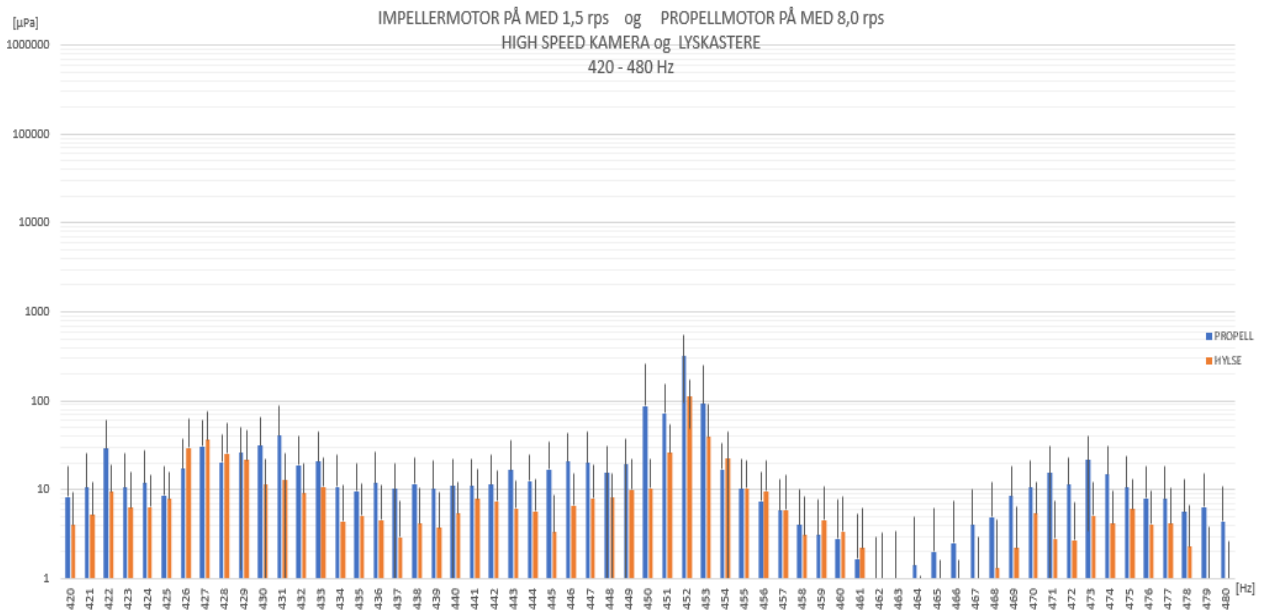


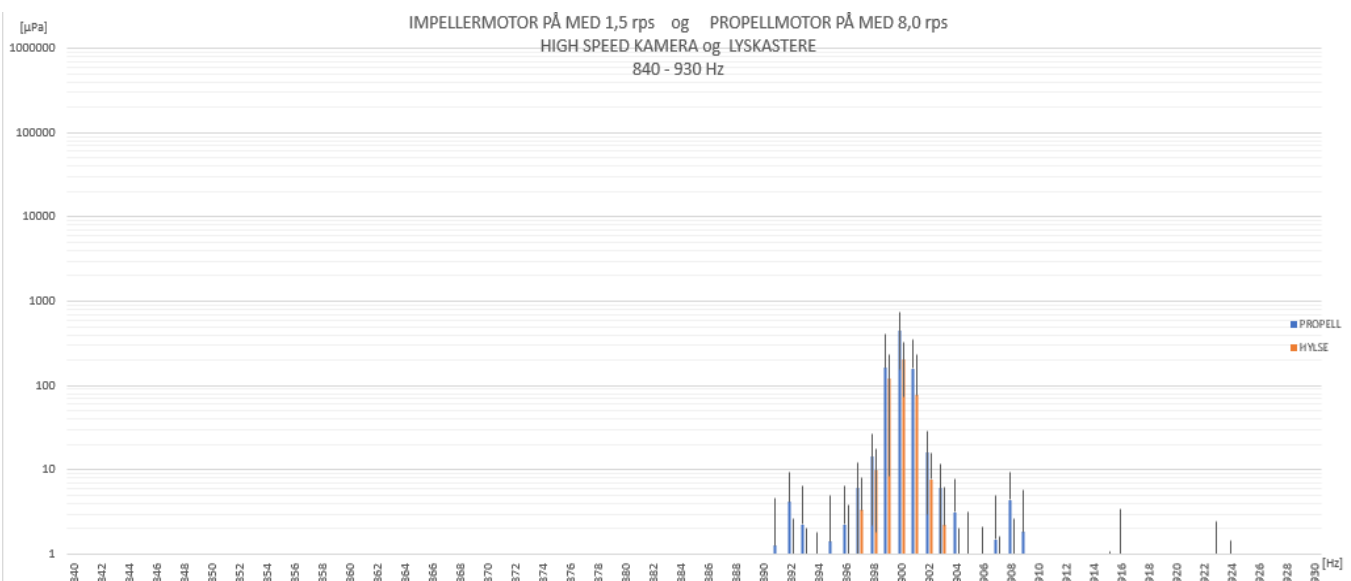
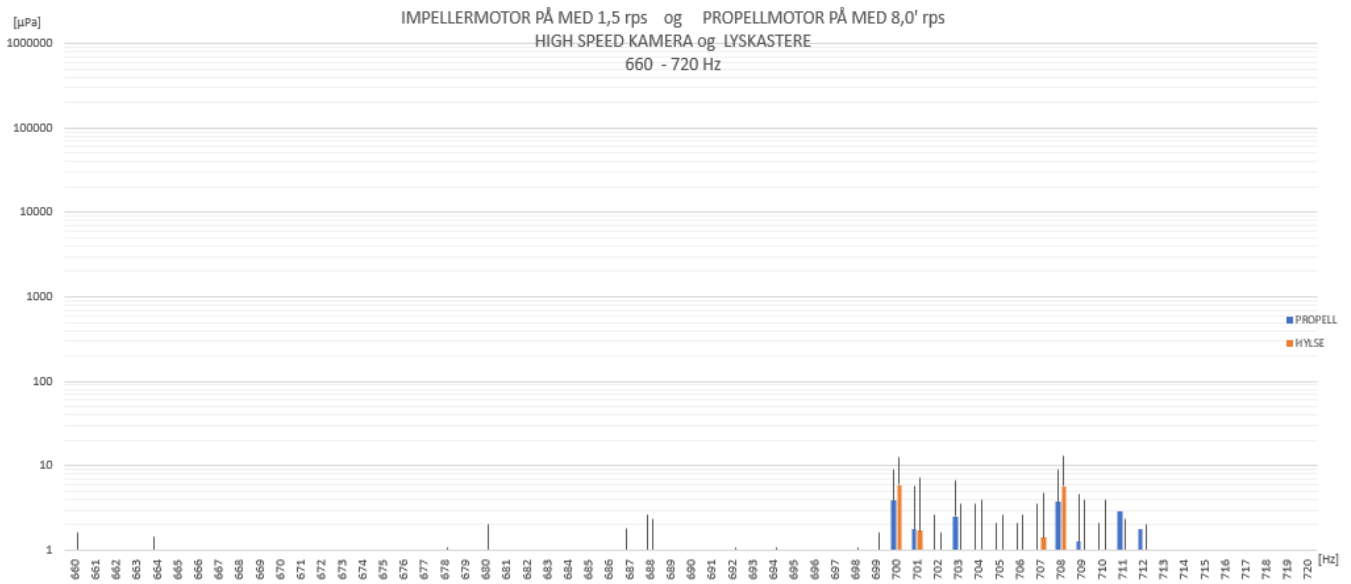
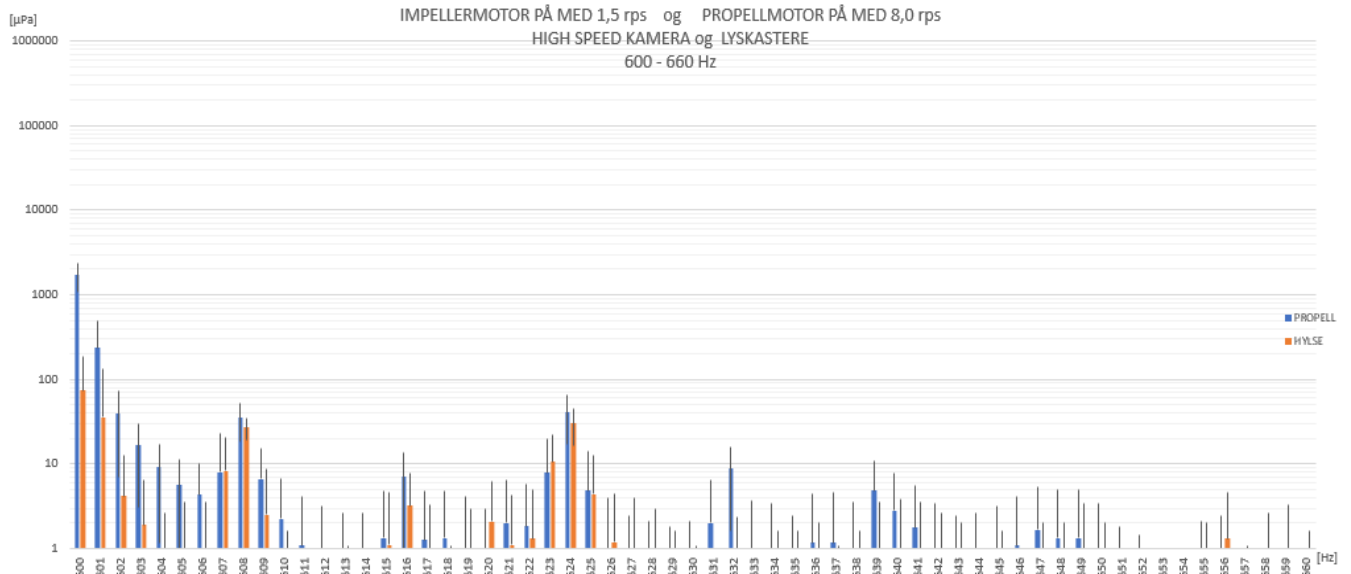
Scenario 21 og 41: Tabeller med impeller satt til 1,5prs, propellmotor går med 8rps. I tillegg er lys og high speed kamera innkoblet. Med og uten propell





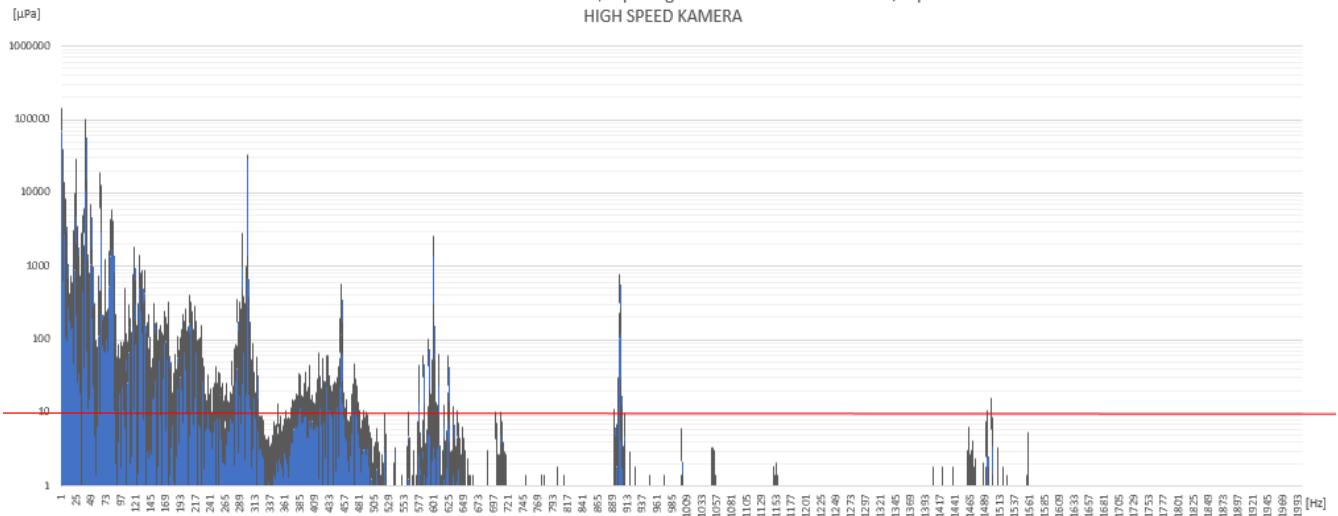




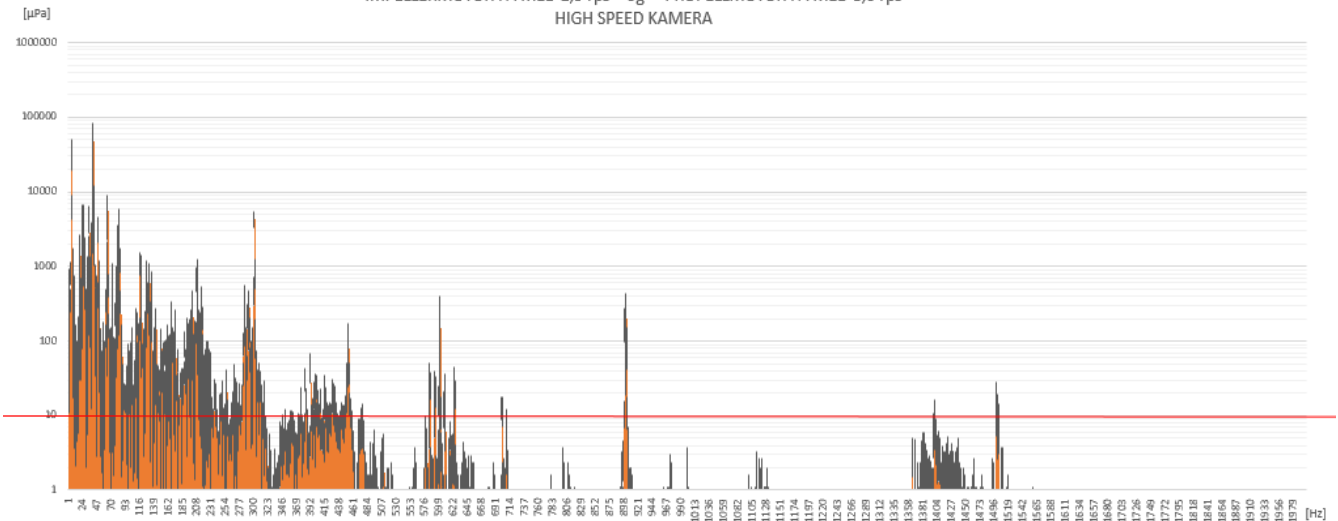


Scenario 22 og 42: Tabeller med impeller satt til 1,5prs, propellmotor går med 8rps. I tillegg er kamera innkoblet. Med og uten propell

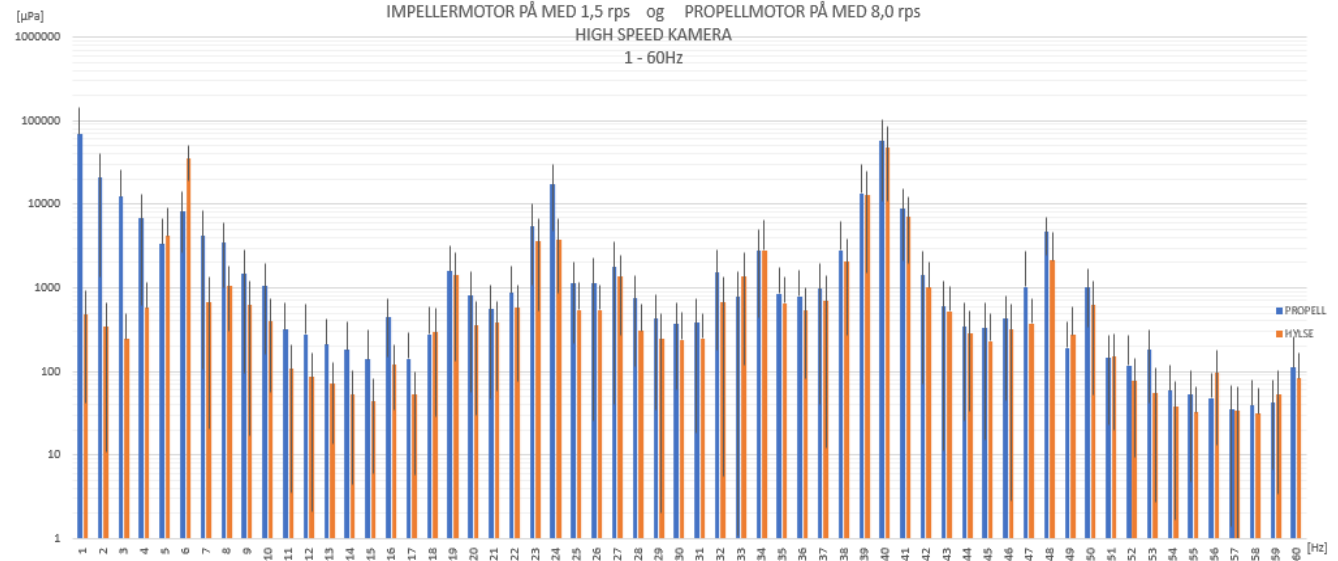
propell: 1 - 2000 Hz
 IMPELLERMOTOR PÅ MED 1,5 rps og PROPELLMOTOR PÅ MED 8,0 rps
 HIGH SPEED KAMERA

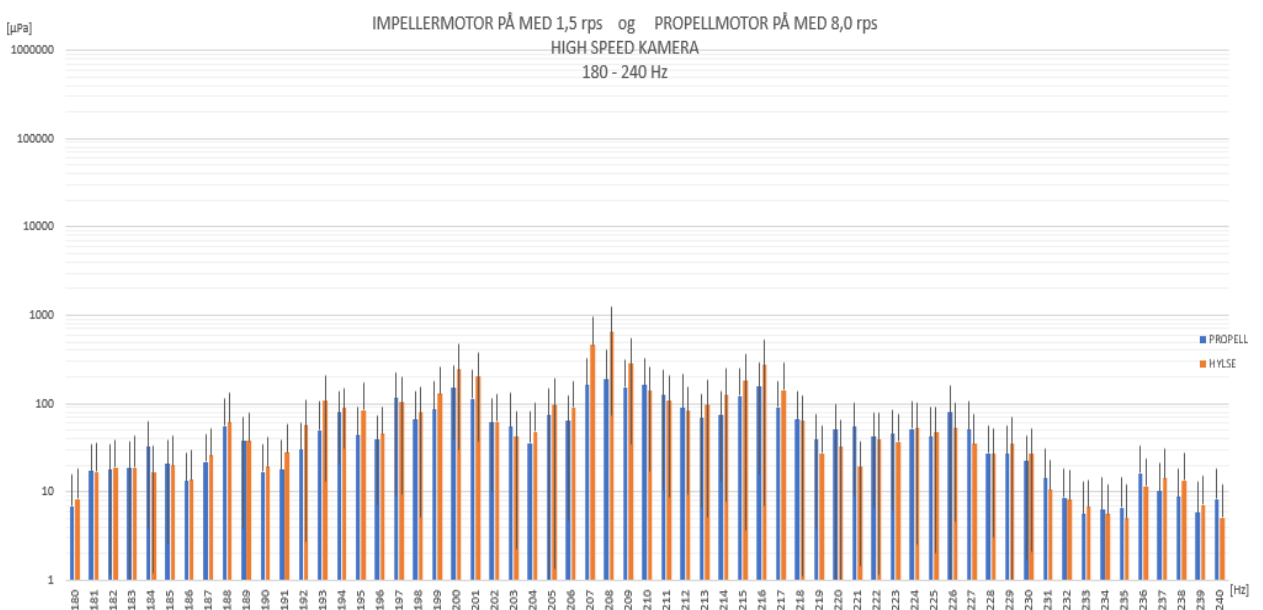
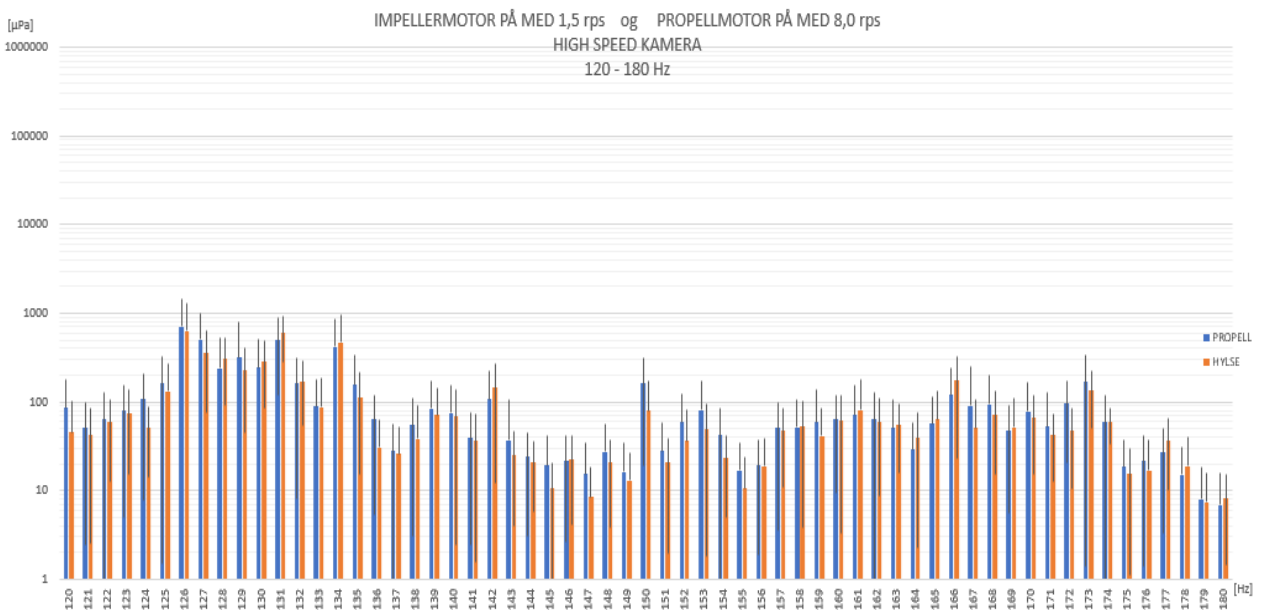
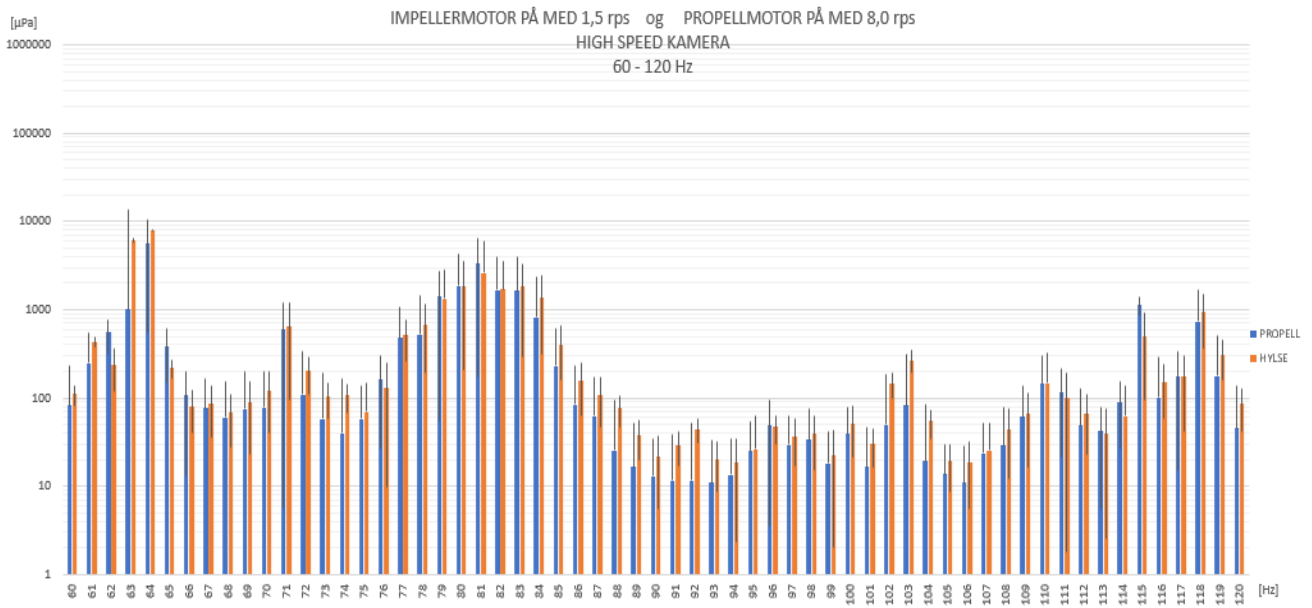


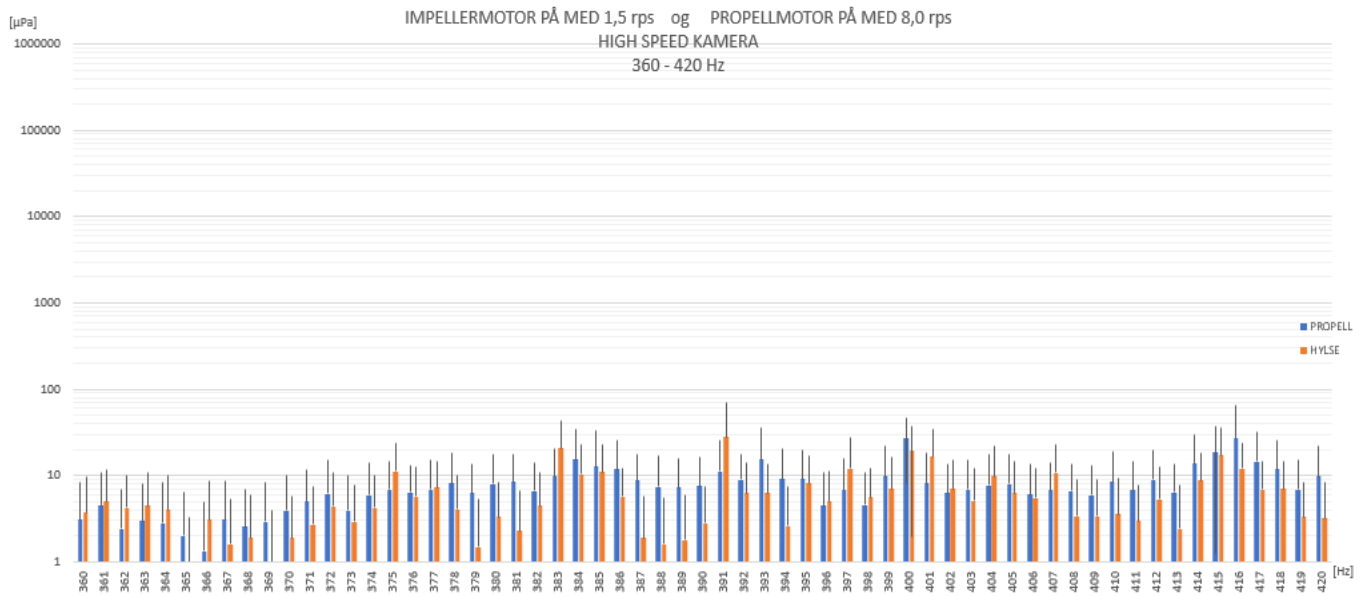
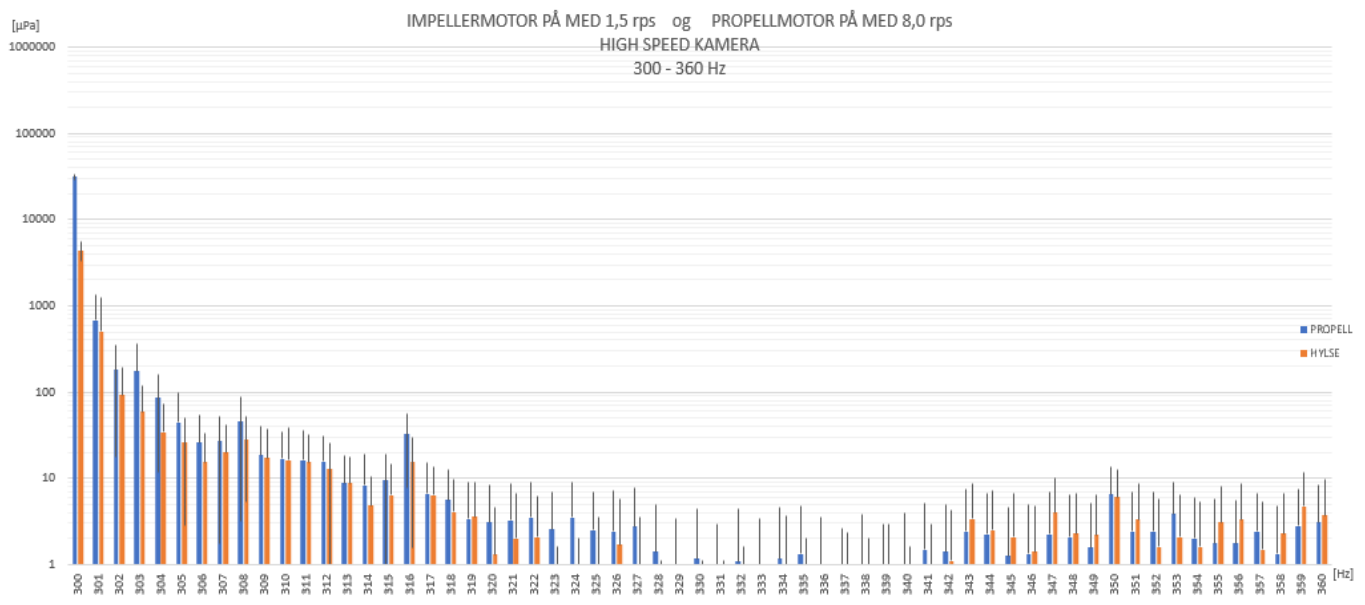
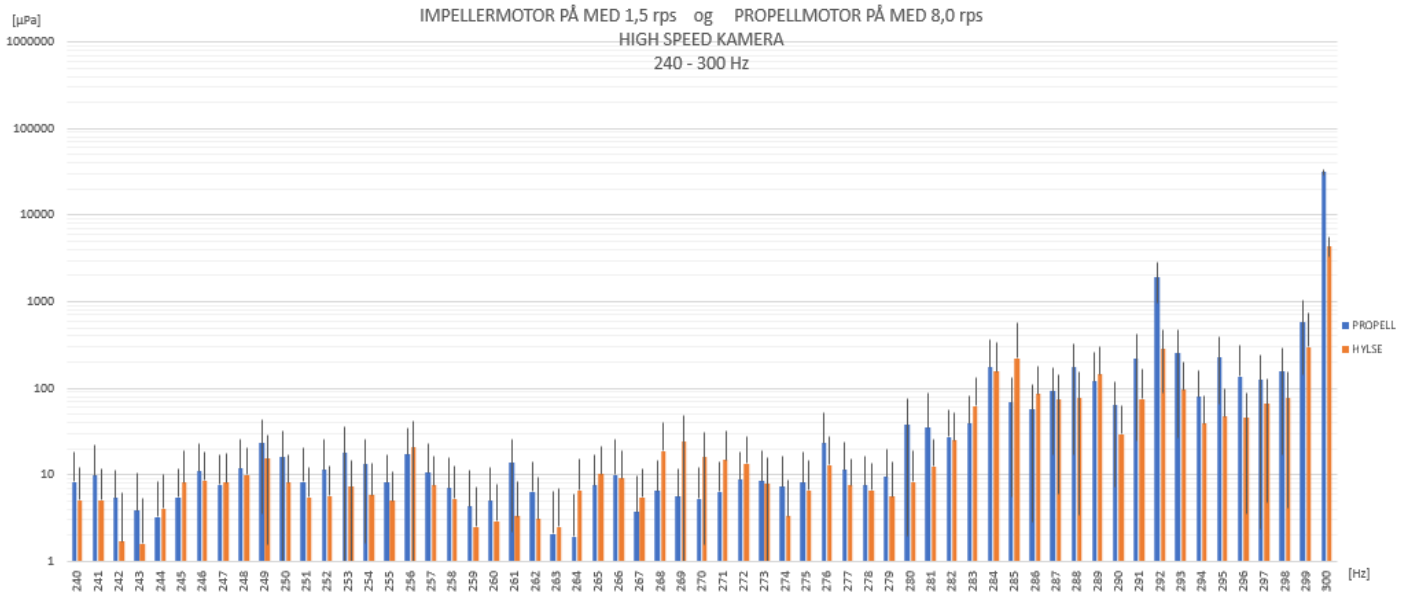
hylse: 1 - 2000 Hz
 IMPELLERMOTOR PÅ MED 1,5 rps og PROPELLMOTOR PÅ MED 8,0 rps
 HIGH SPEED KAMERA

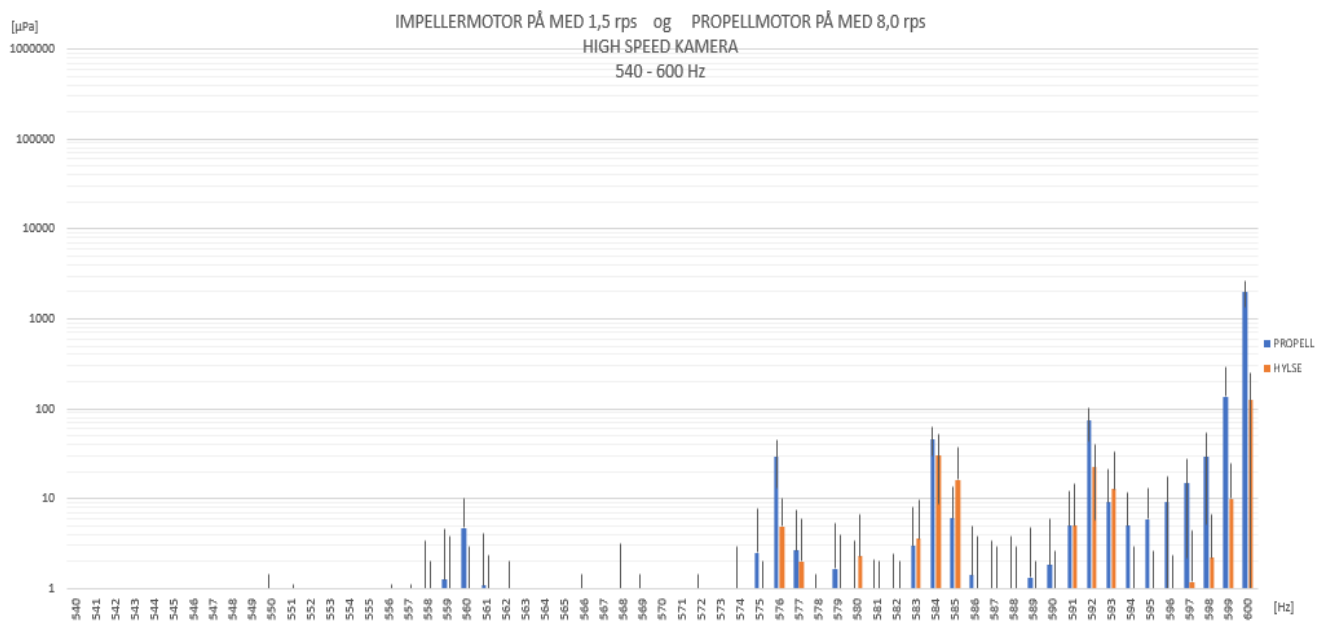
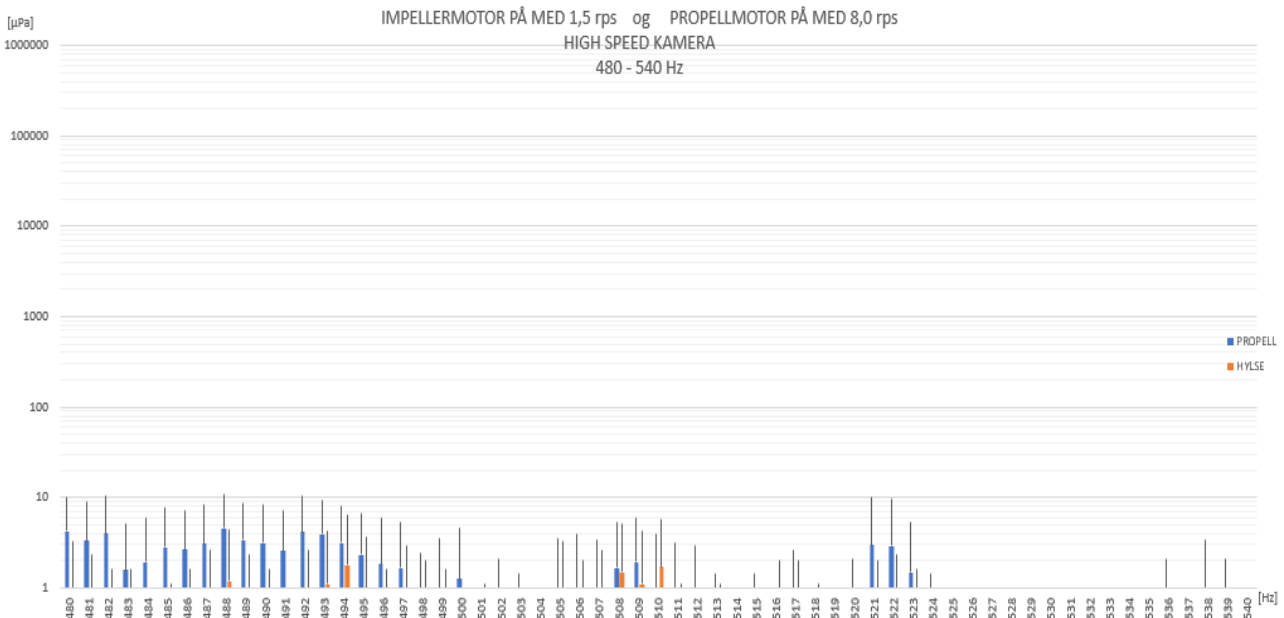
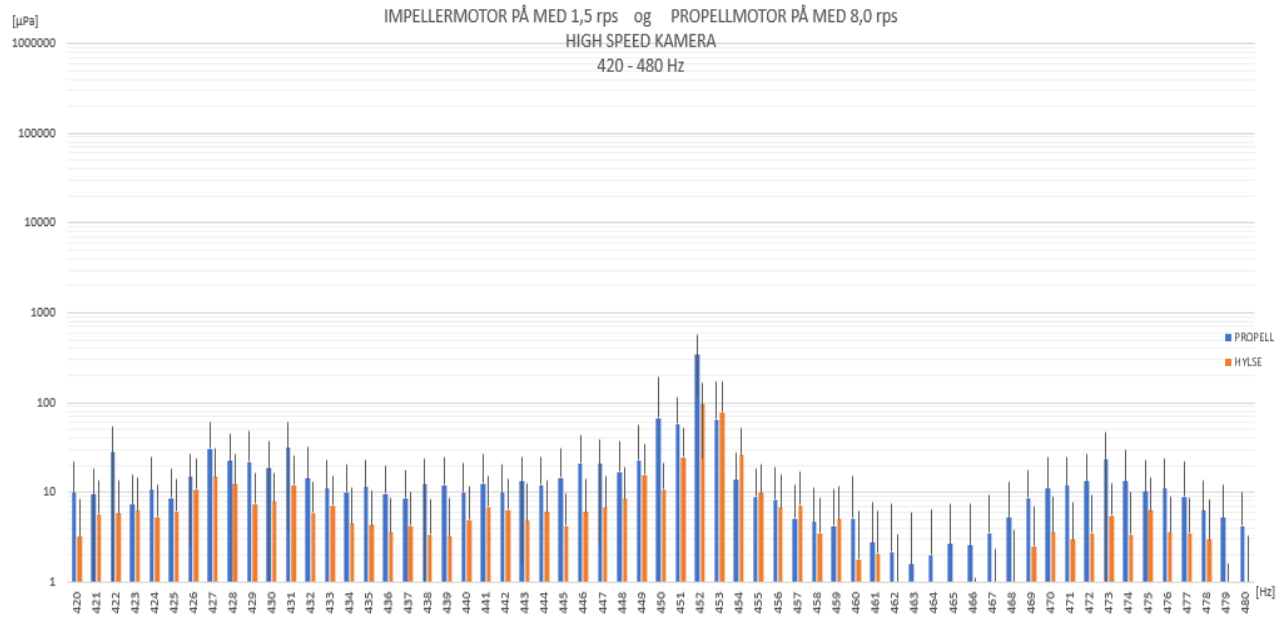


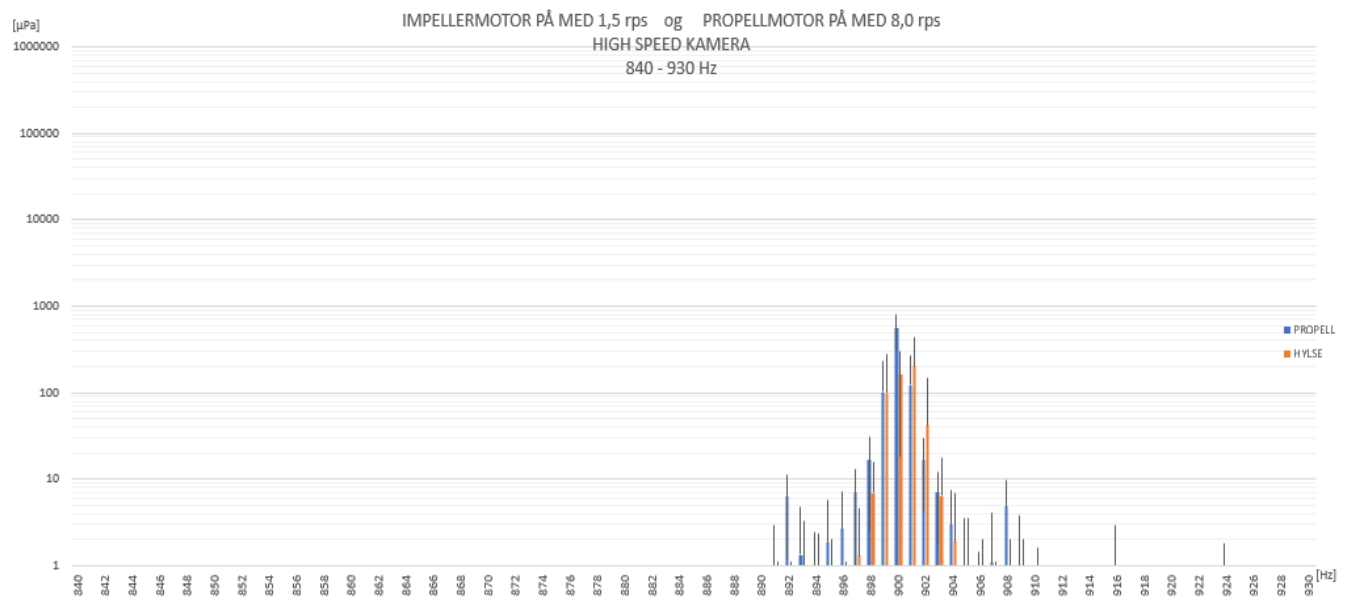
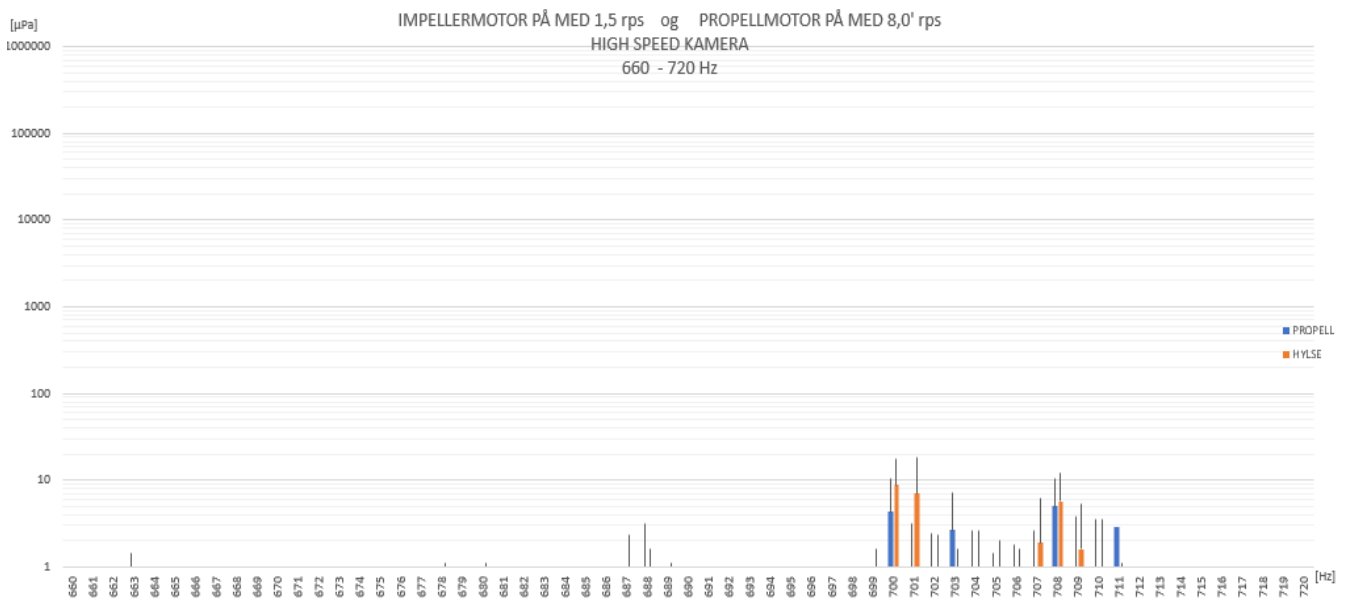
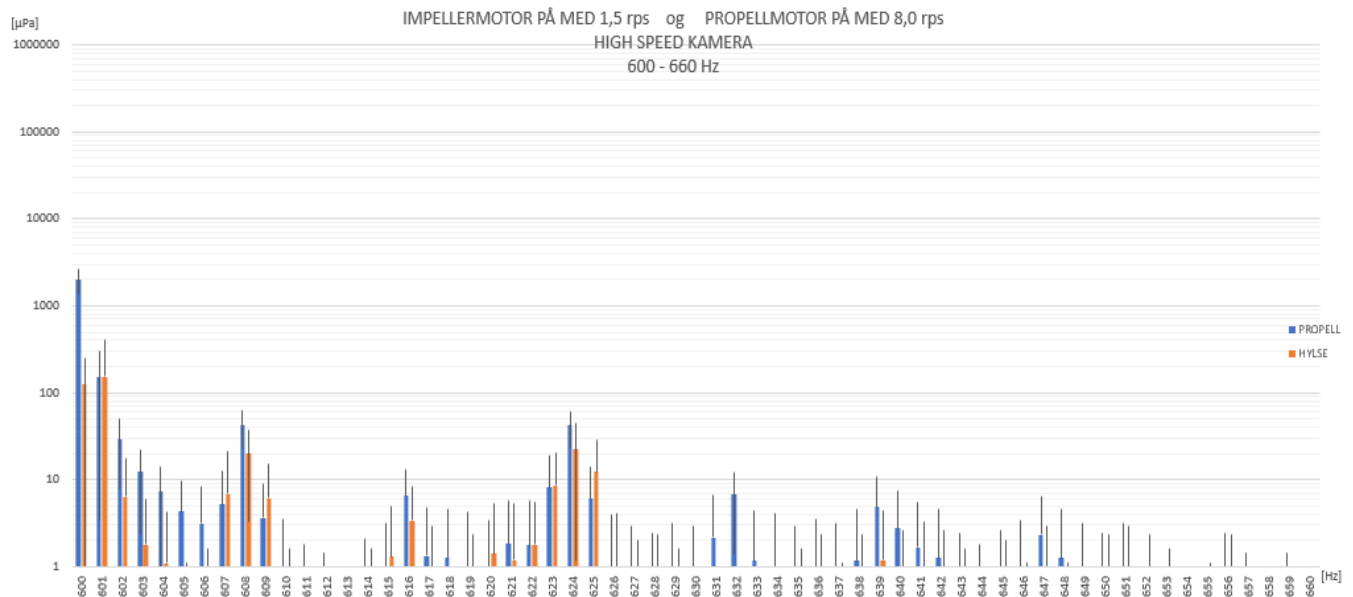
IMPELLERMOTOR PÅ MED 1,5 rps og PROPELLMOTOR PÅ MED 8,0 rps
 HIGH SPEED KAMERA
 1 - 60Hz



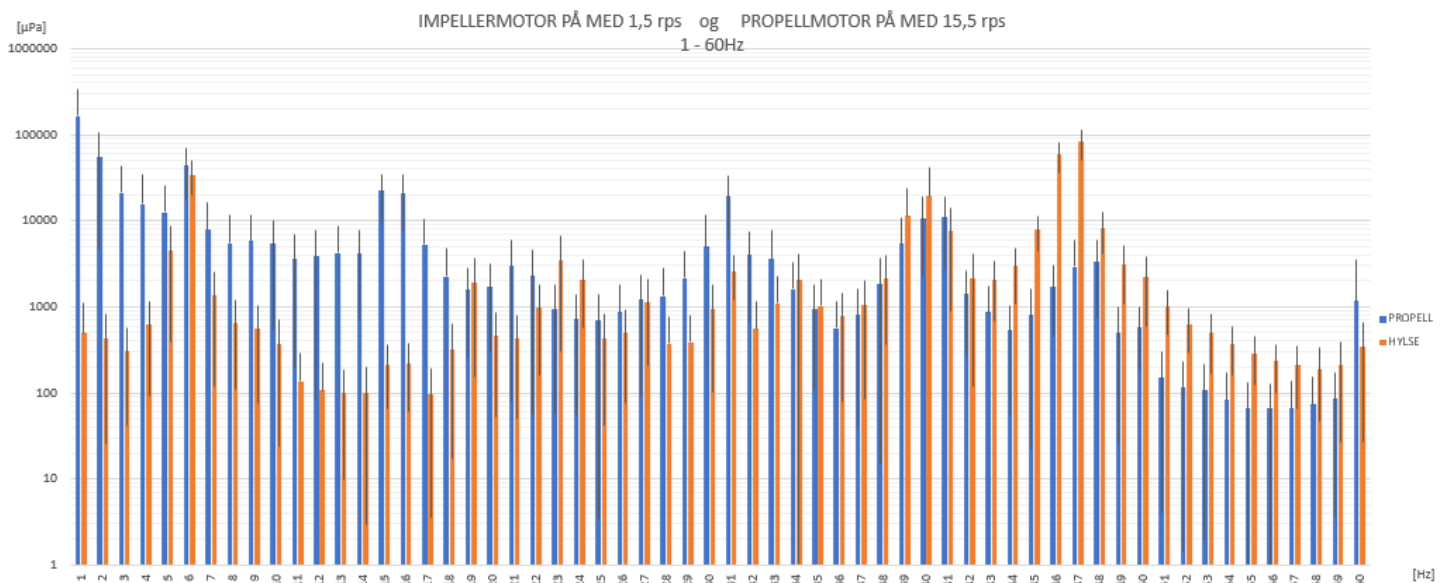
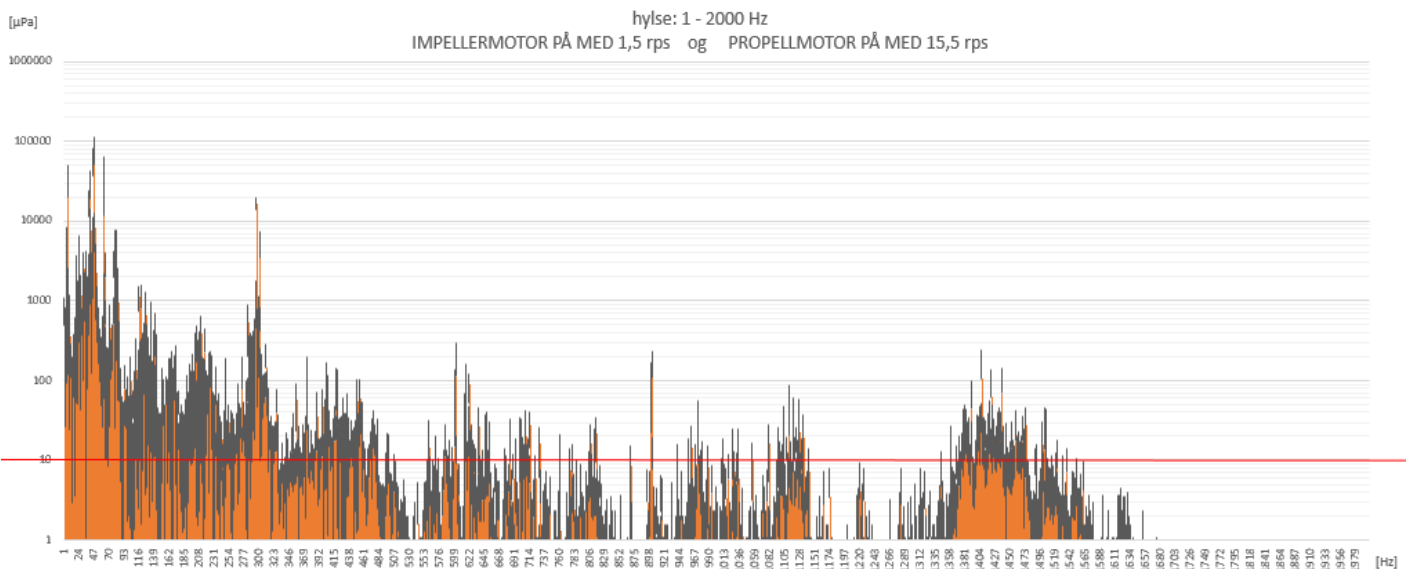
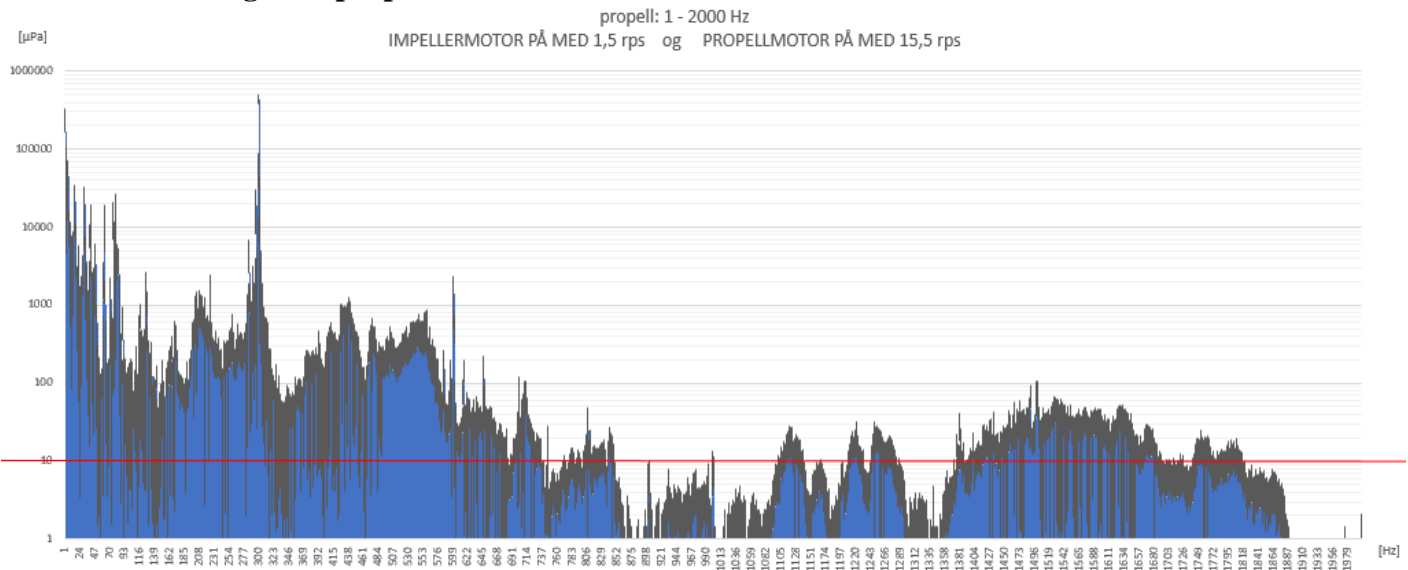


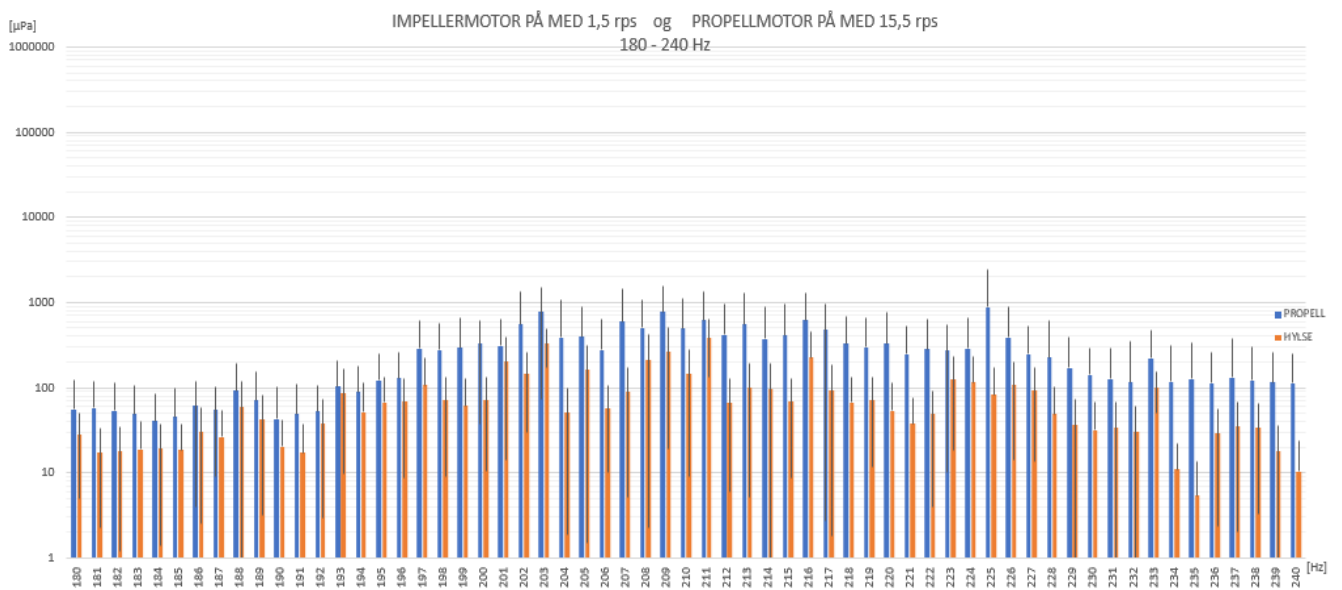
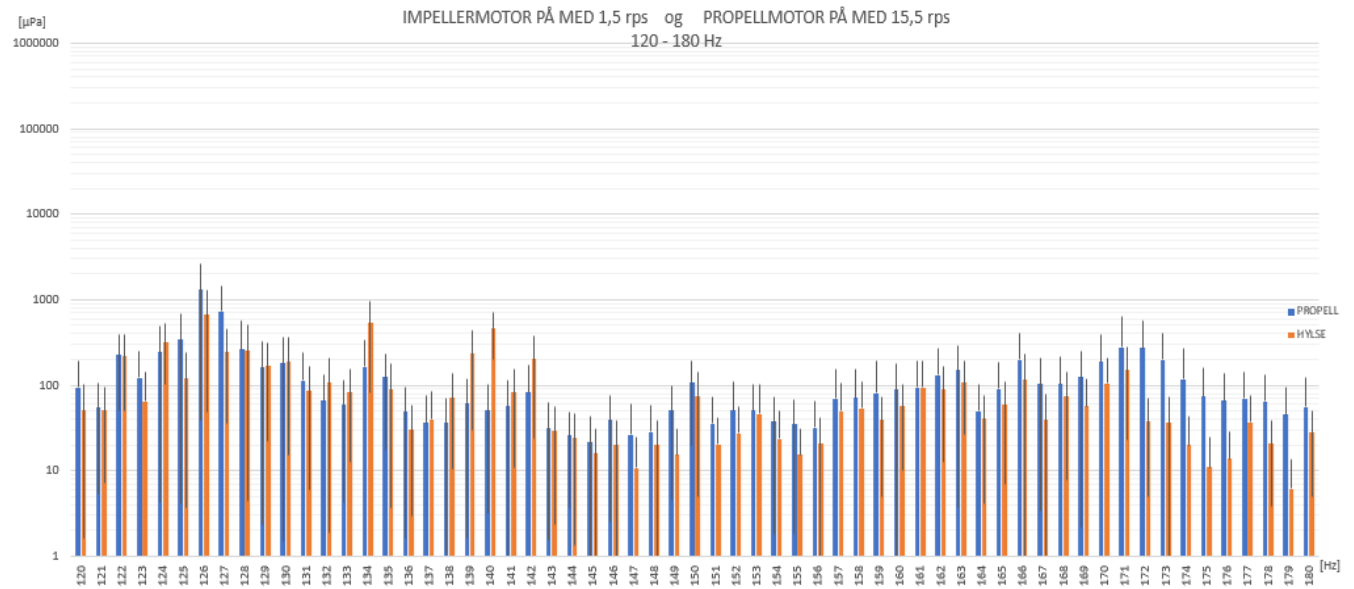
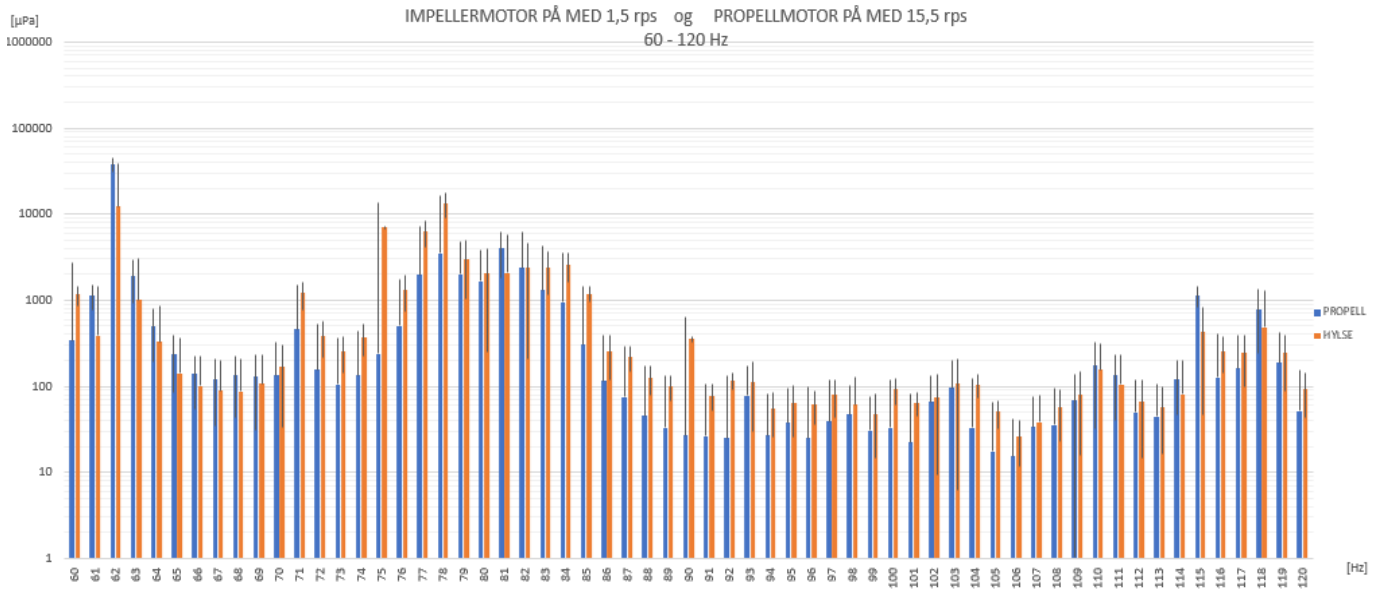


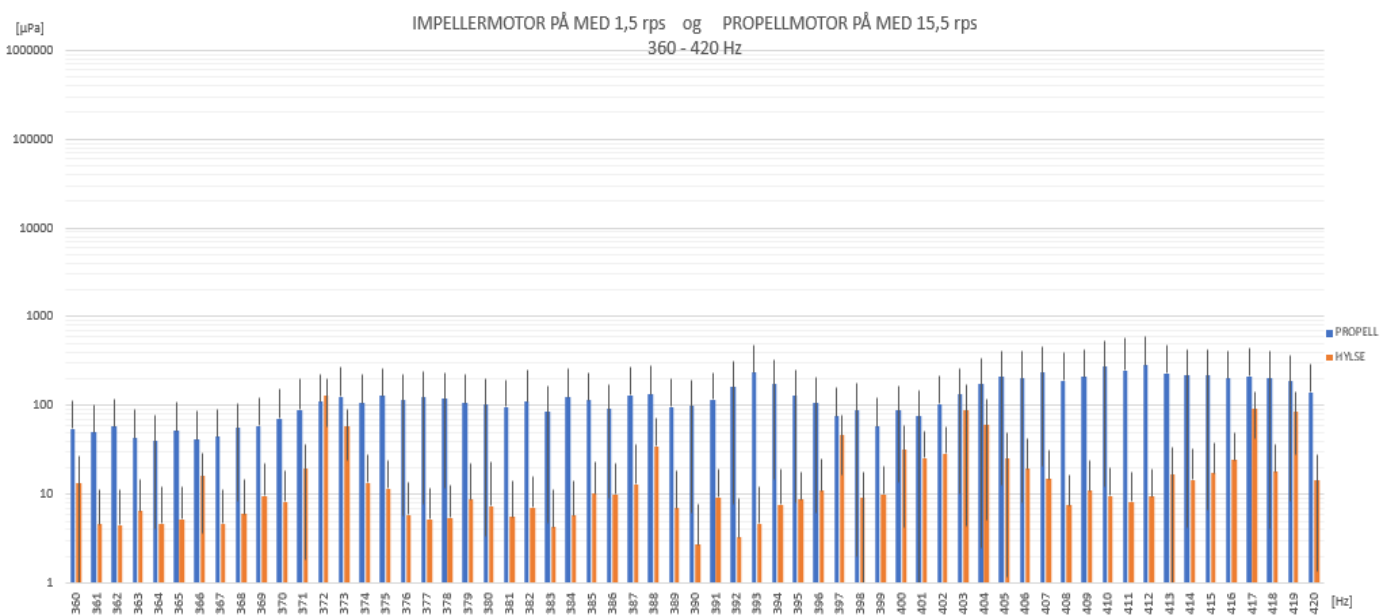
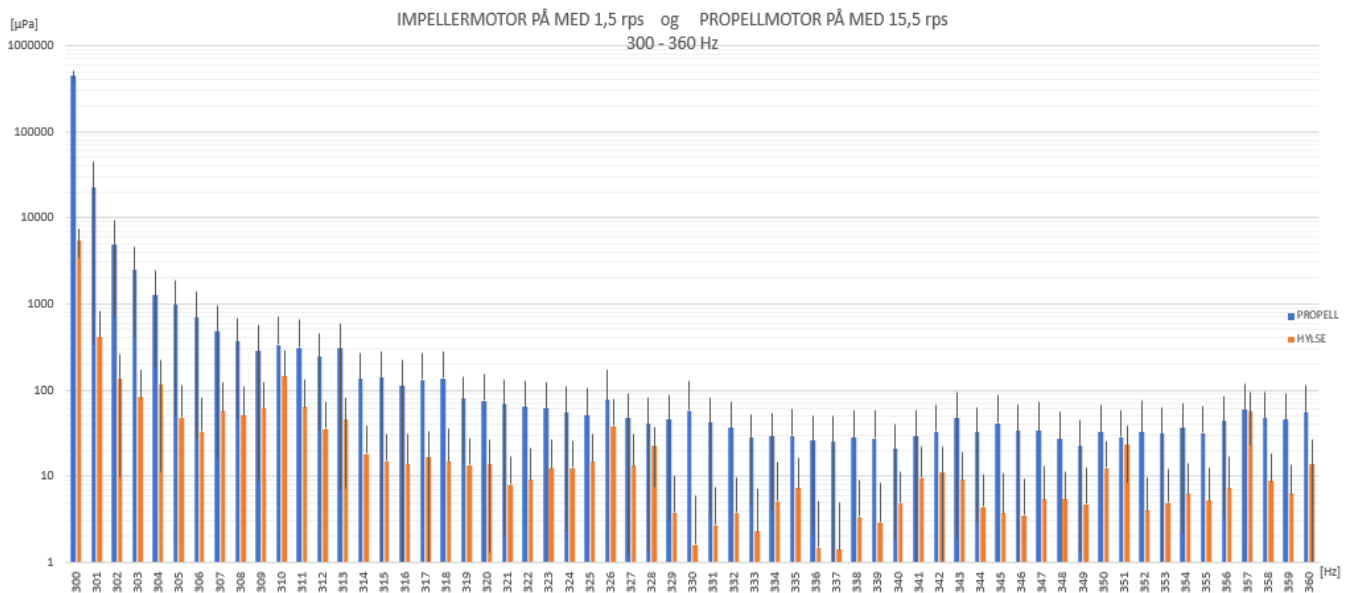
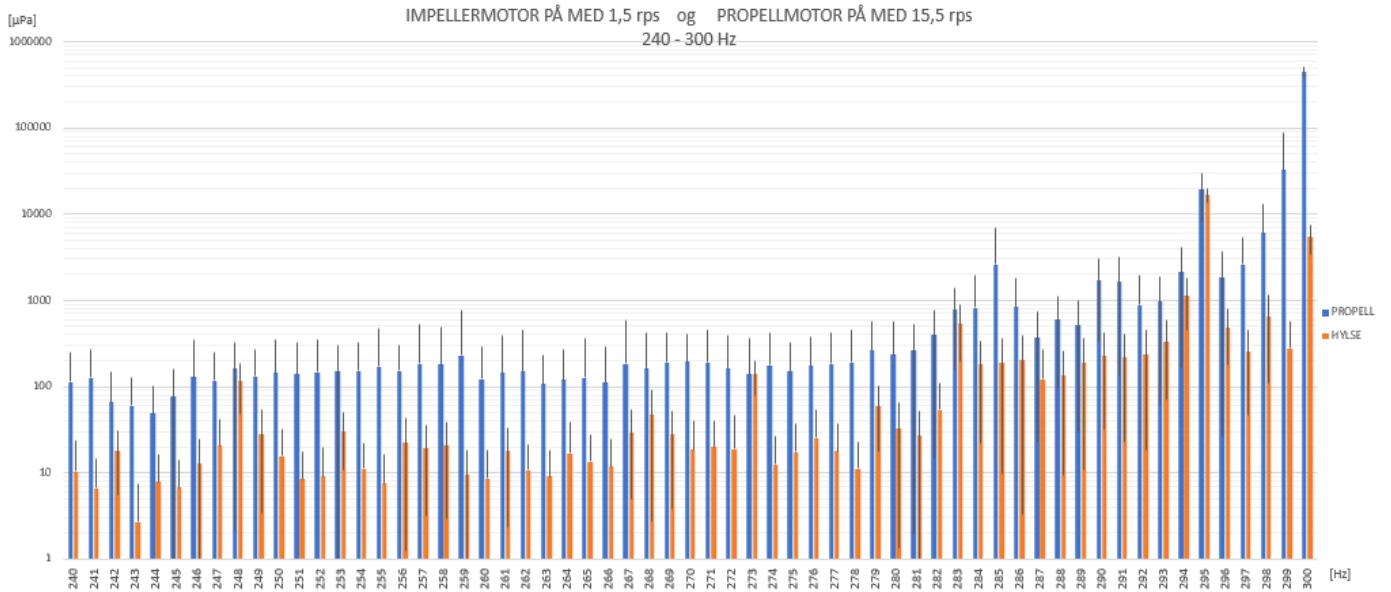


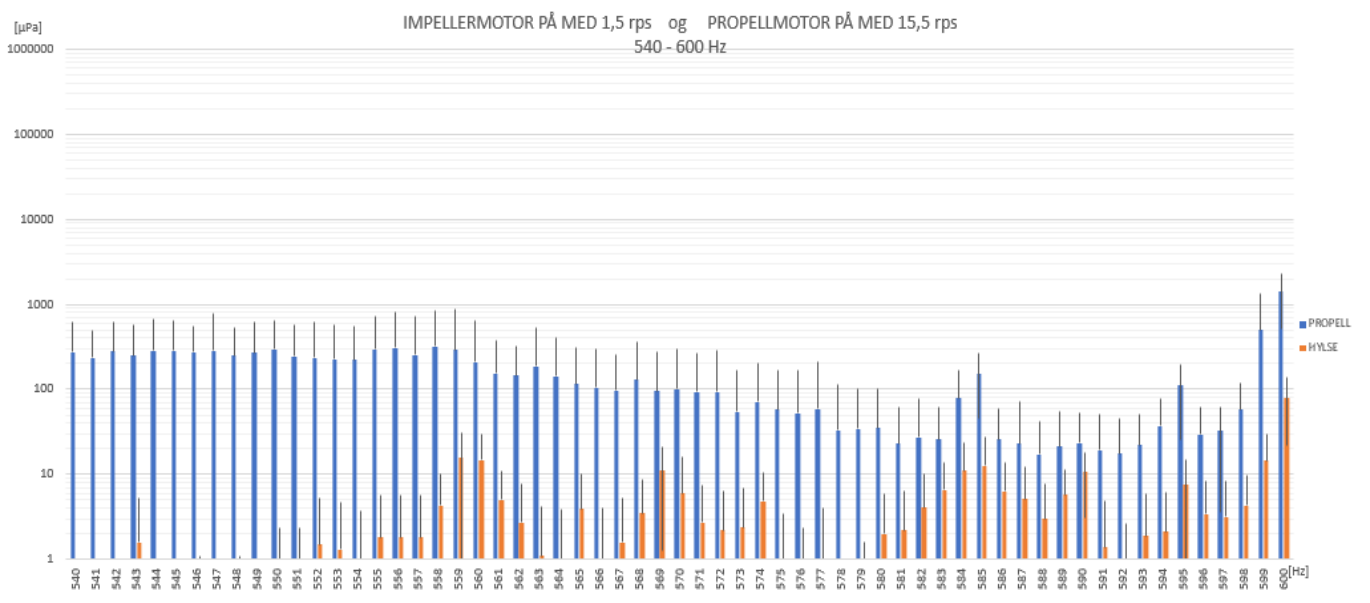
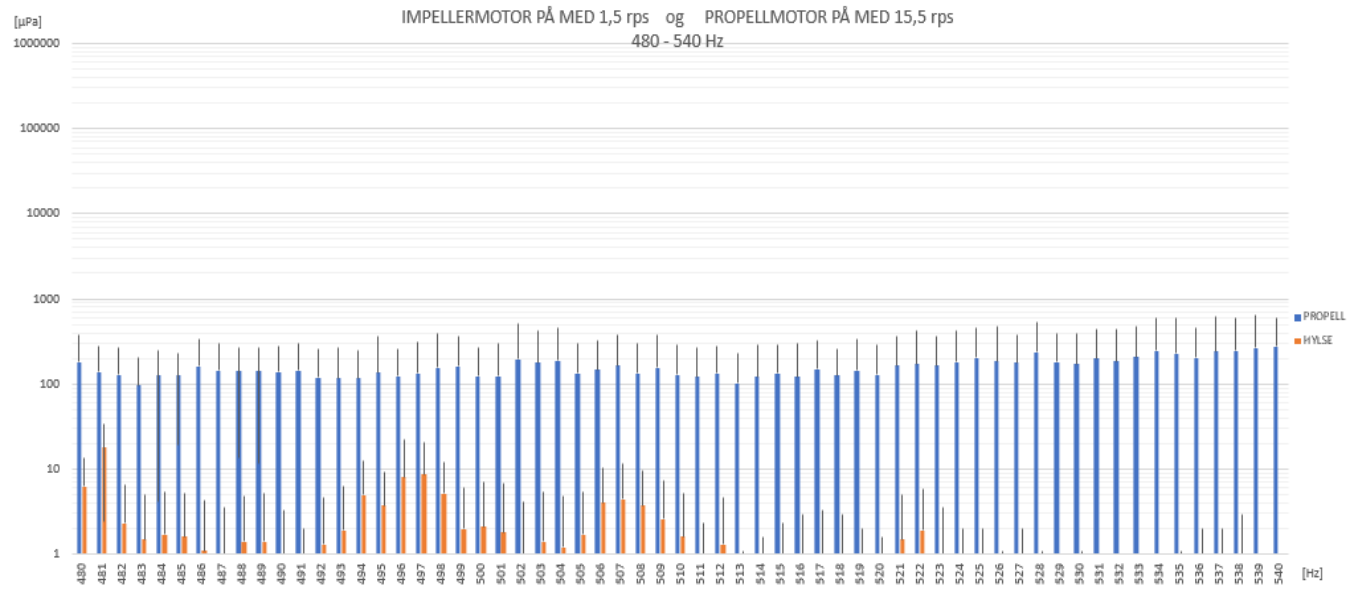
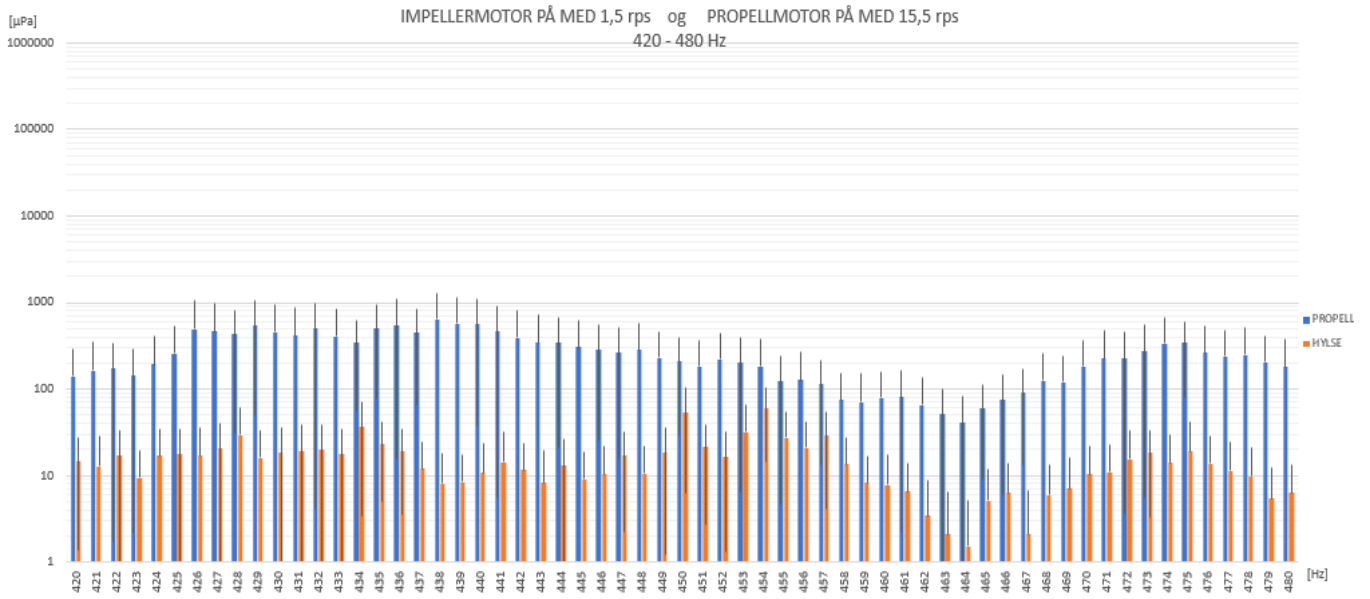


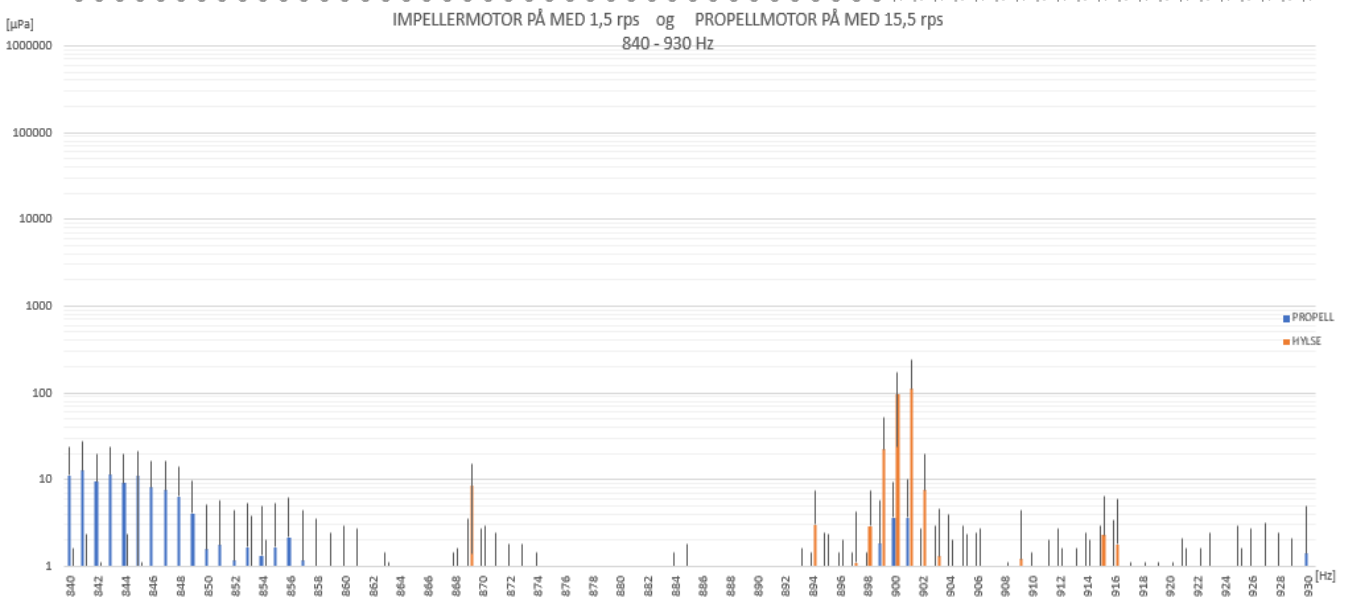
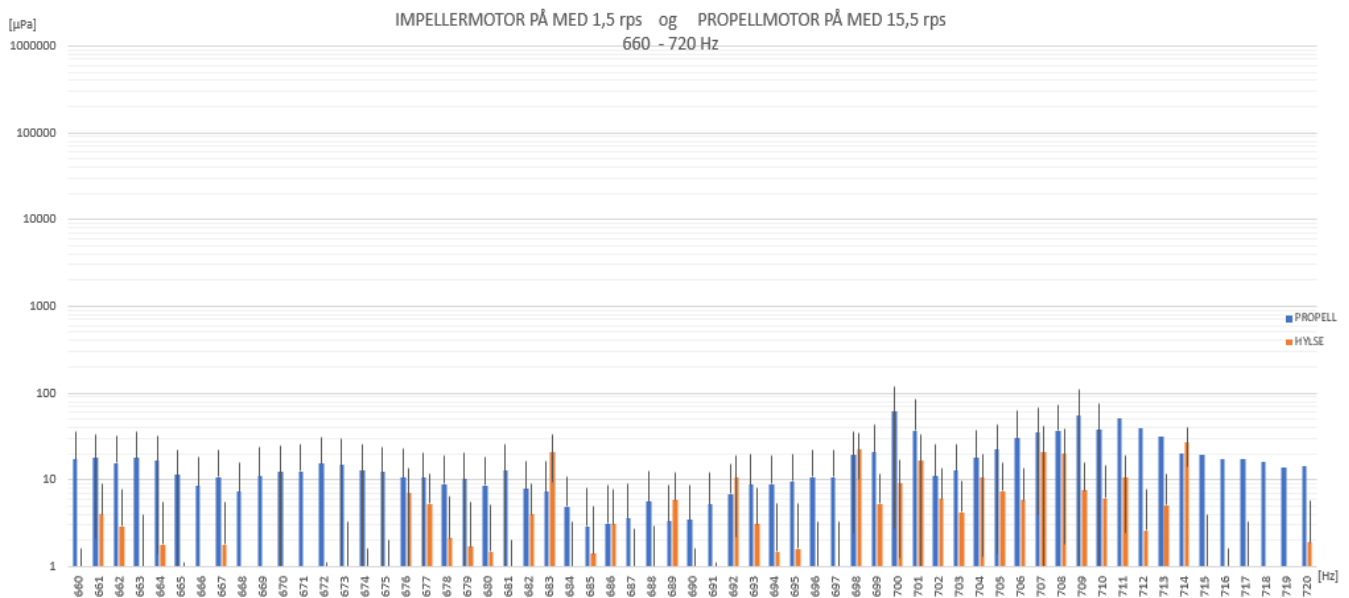
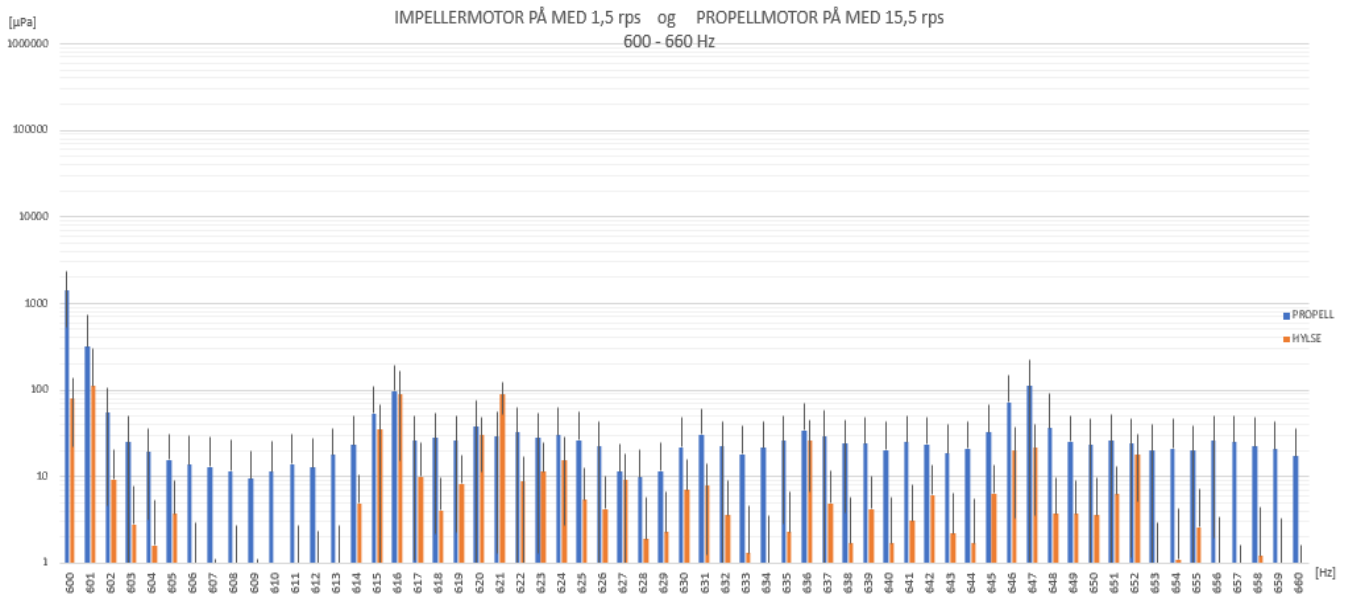
Scenario 23 og 43: Tabeller med impeller satt til 1,5rps, propellmotor går med 15,5rps. Med og uten propell



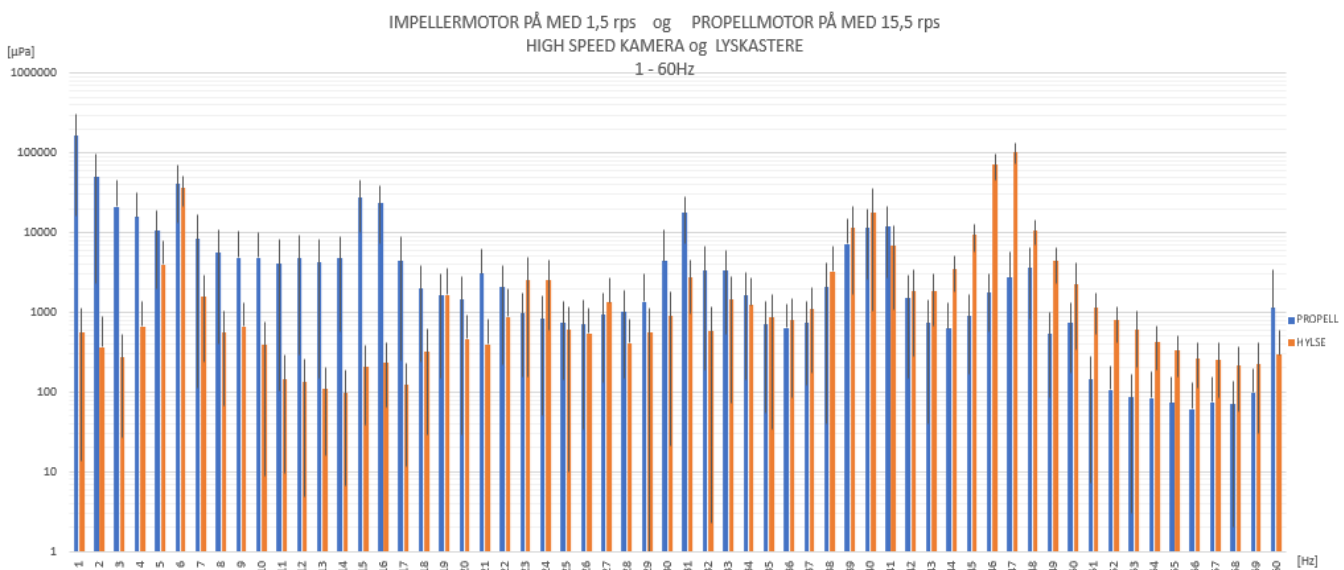
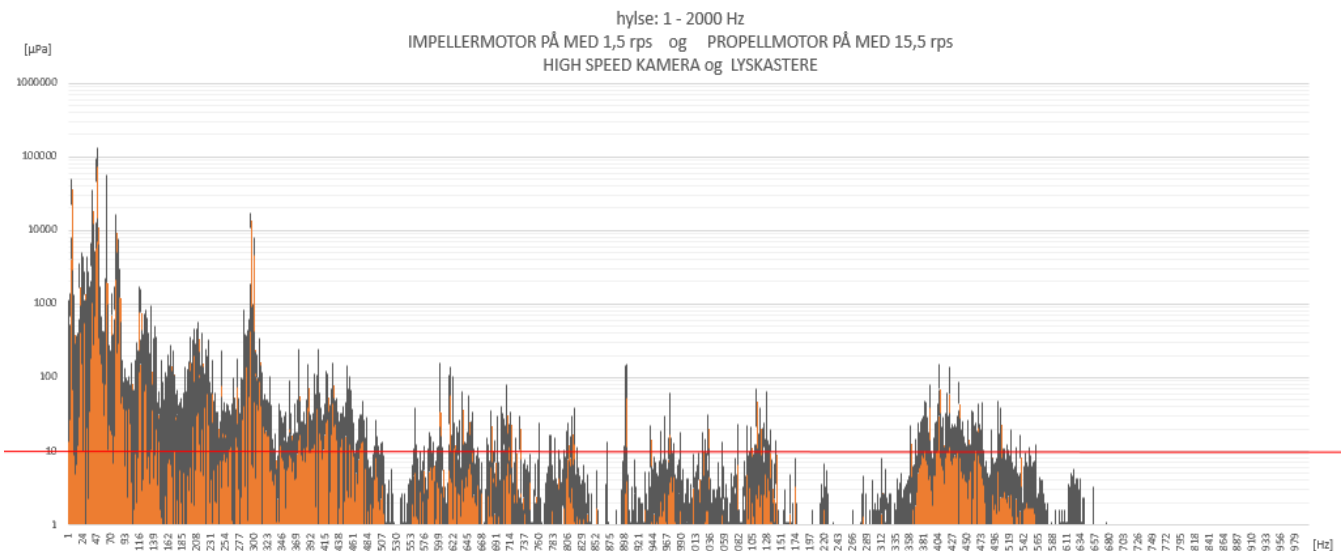
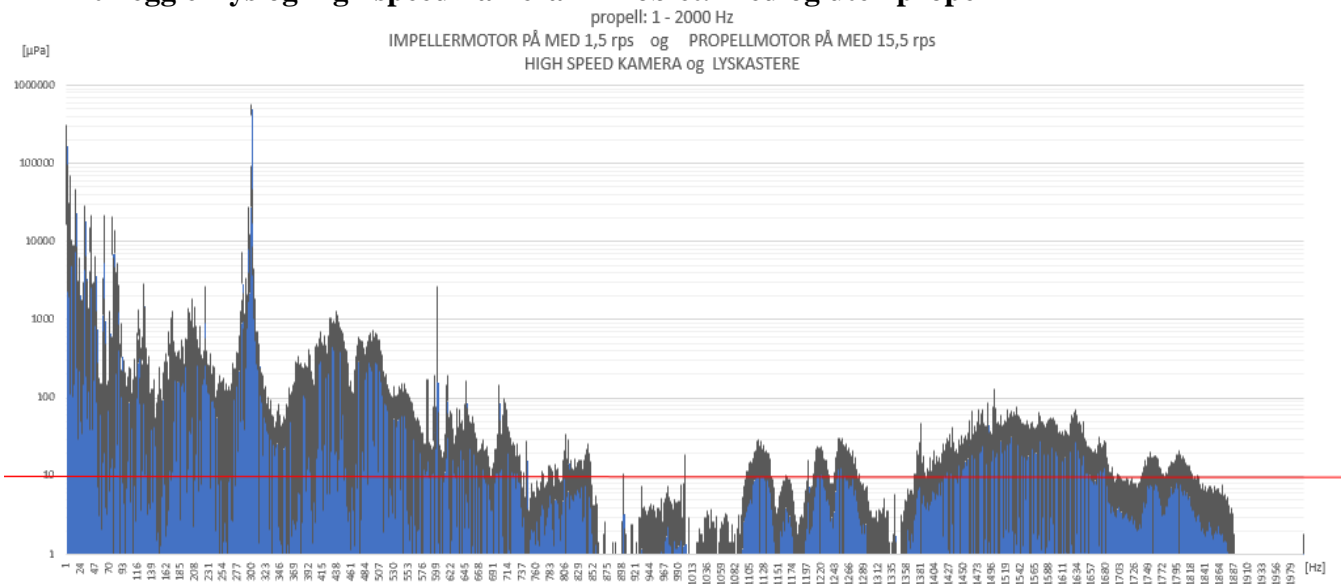


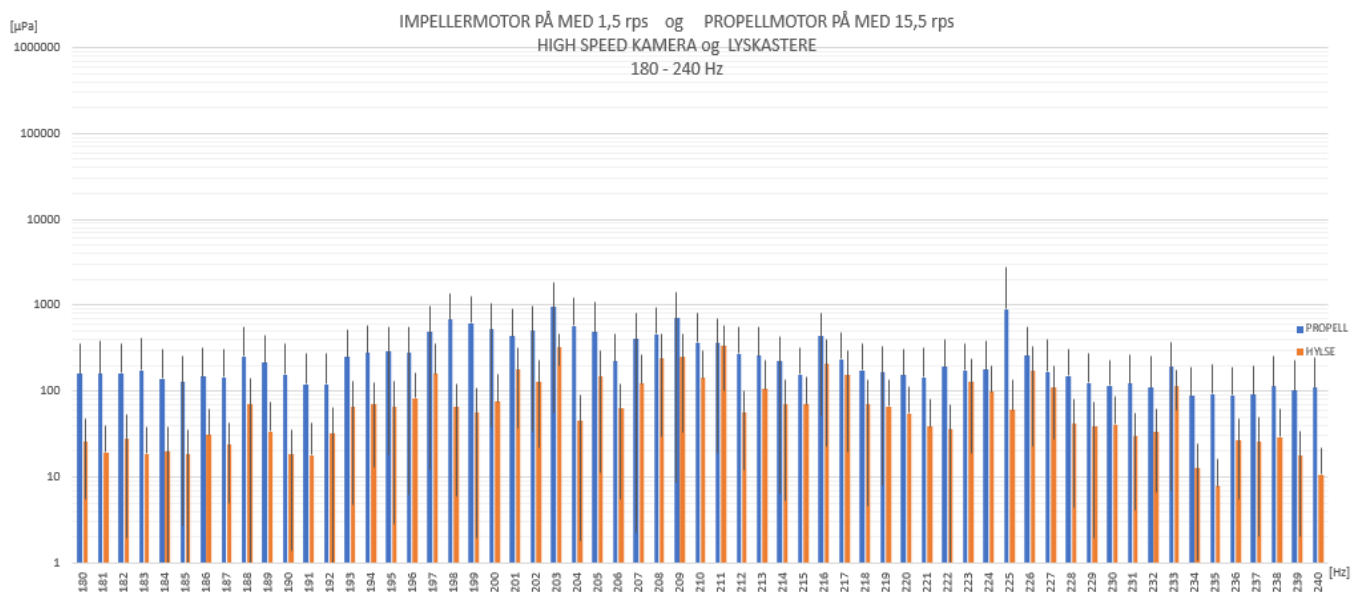
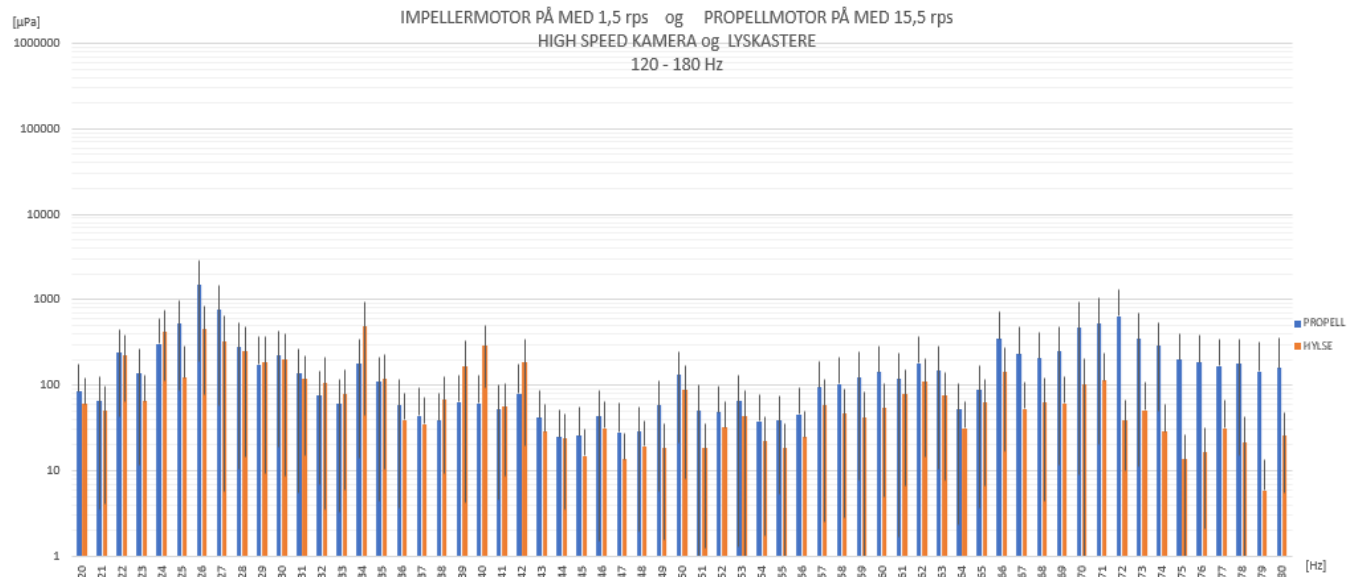
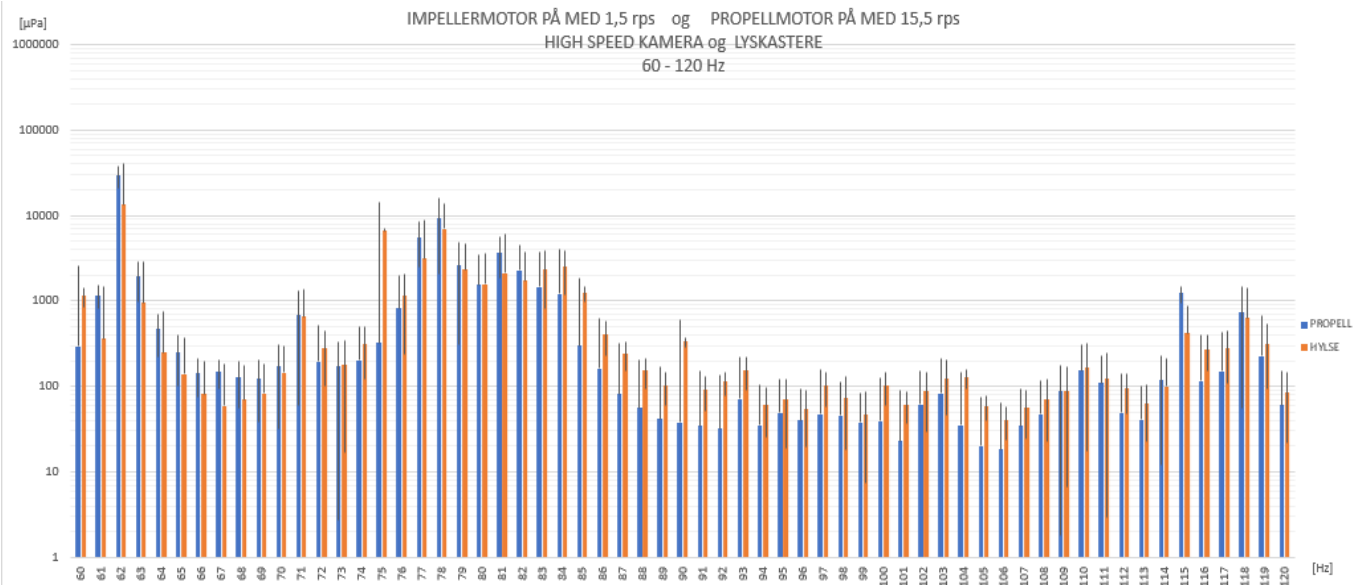


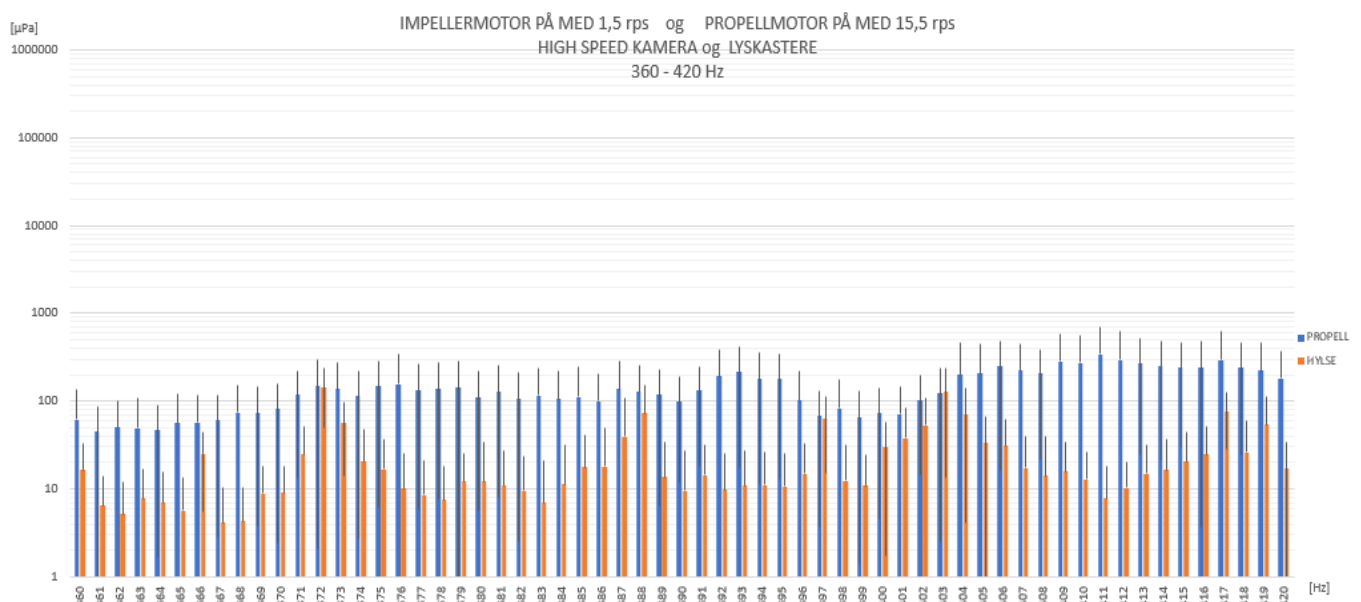
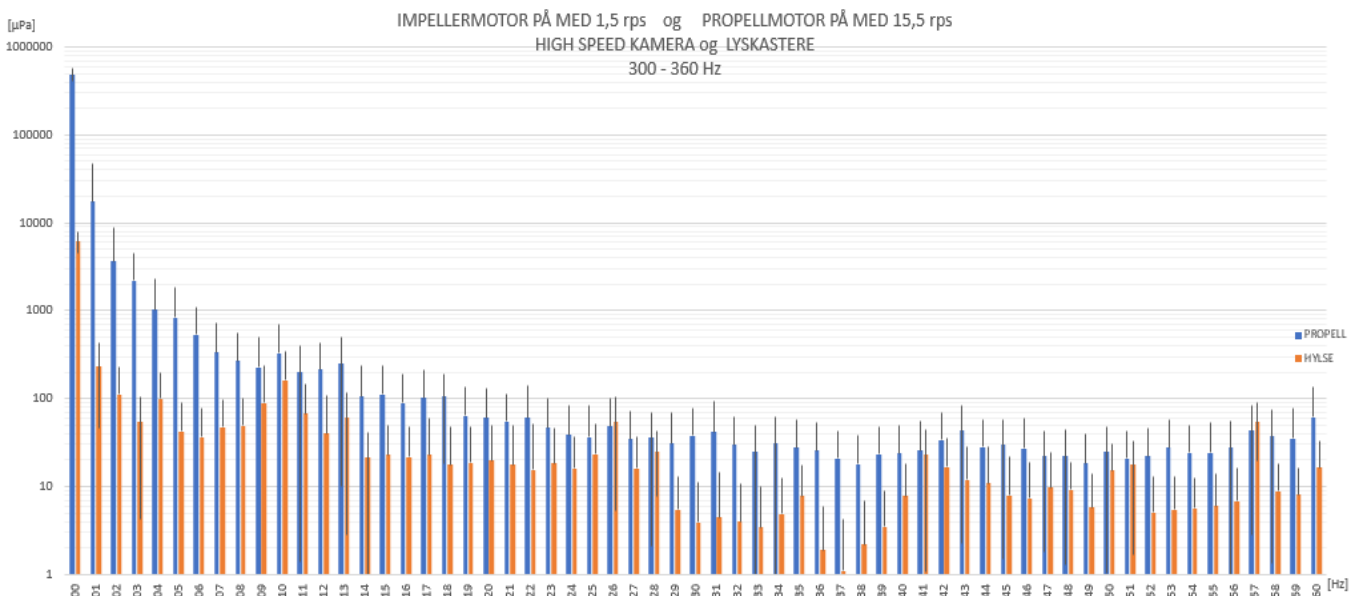
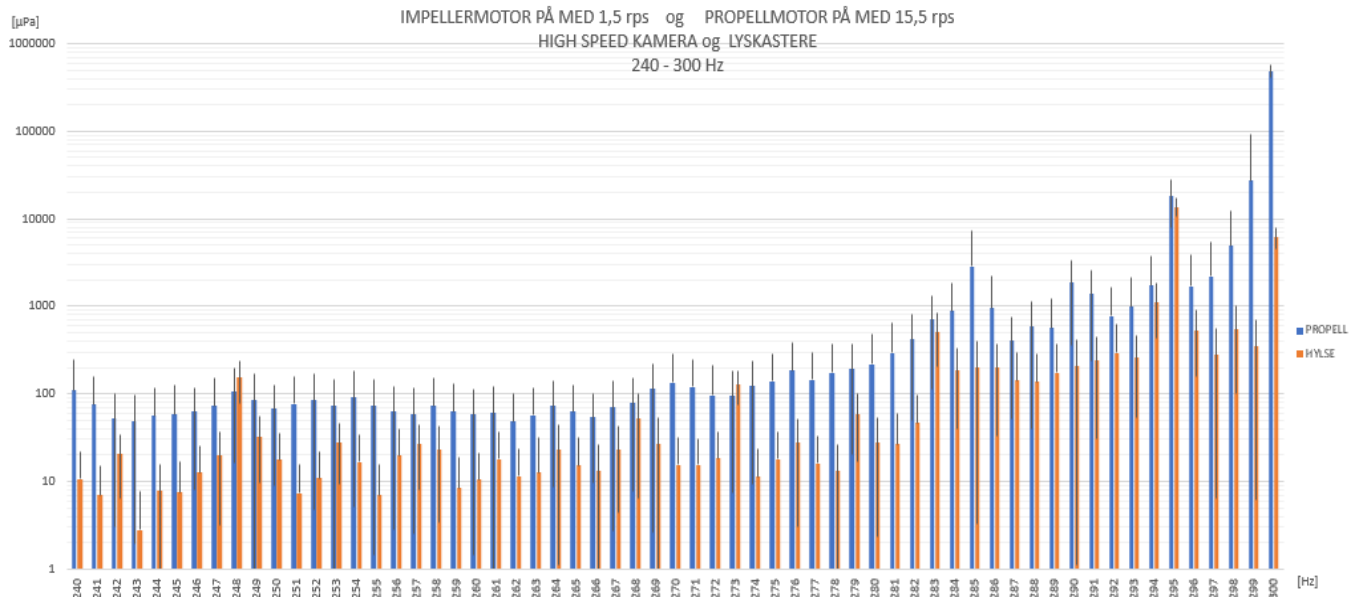


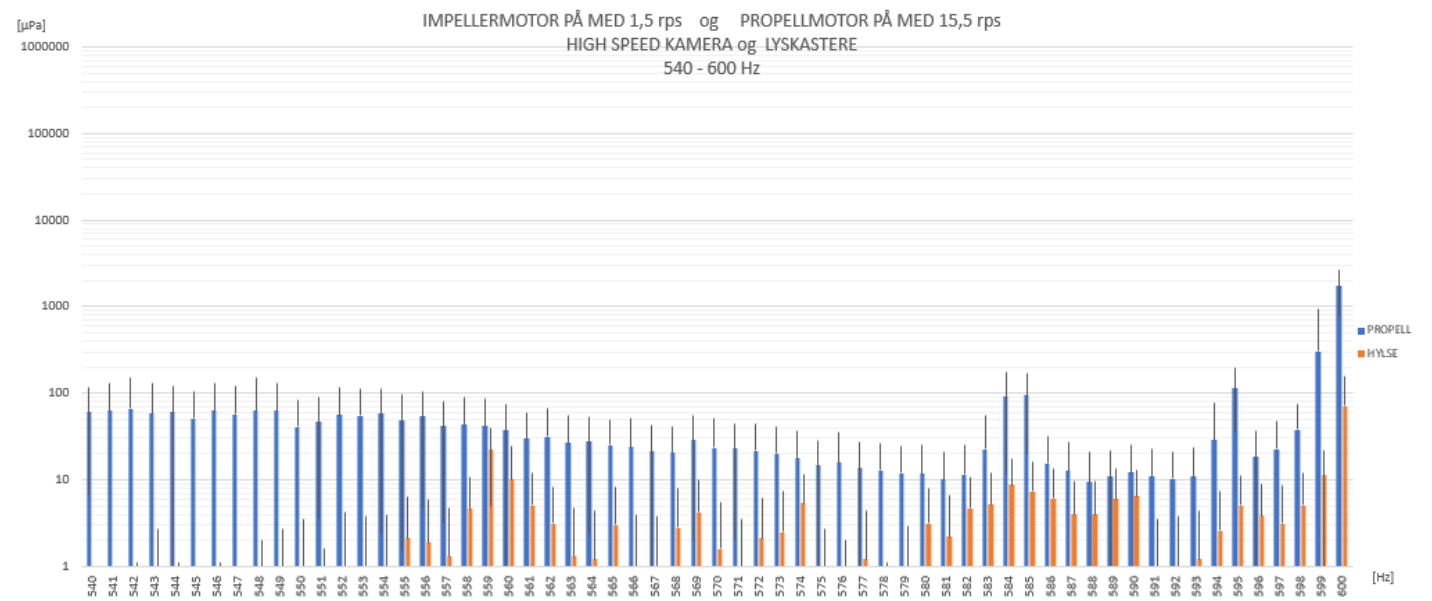
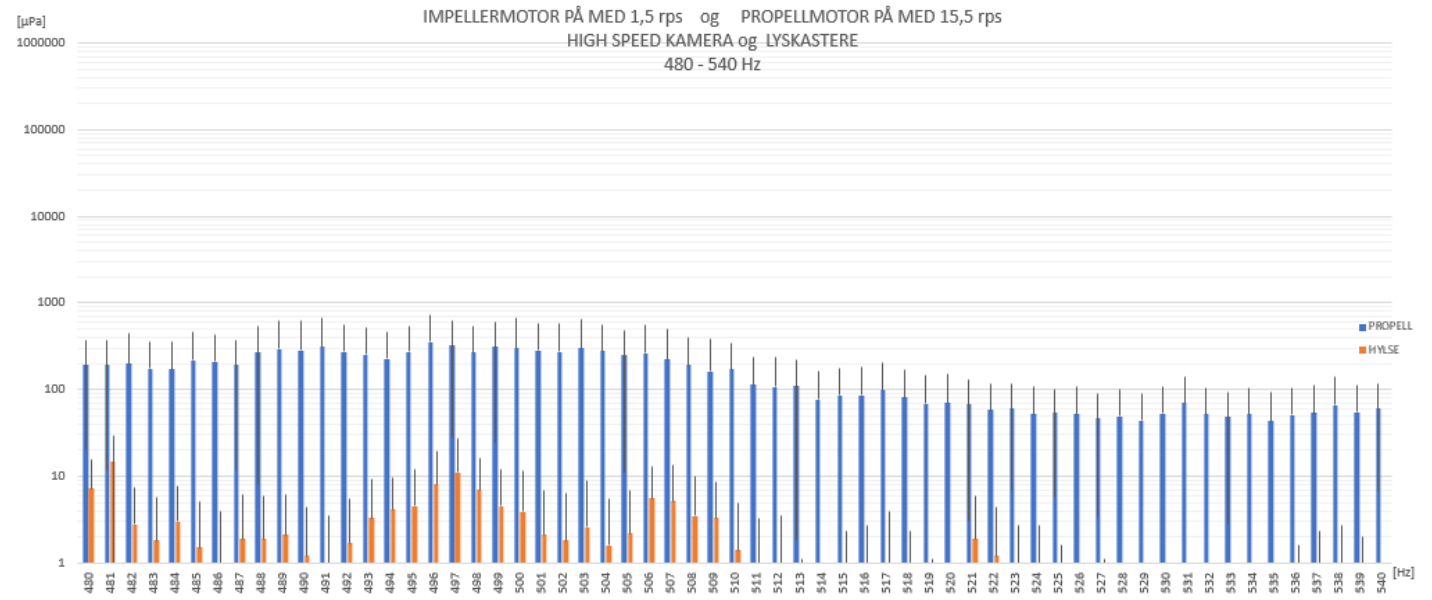
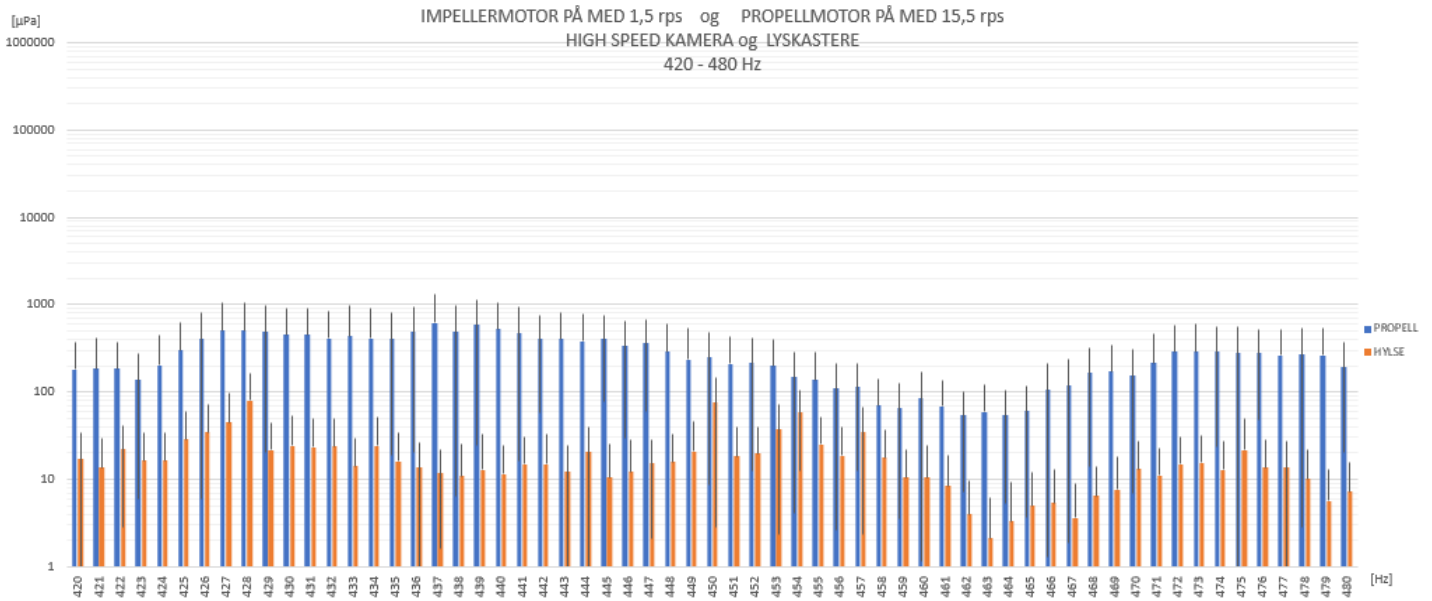


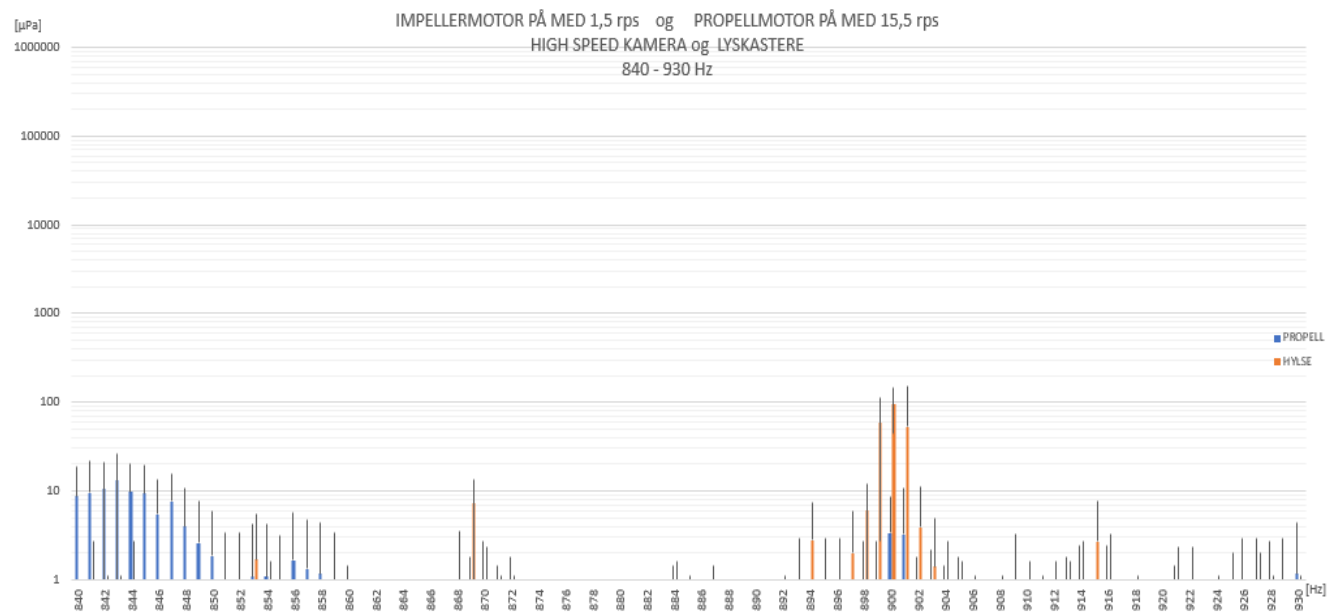
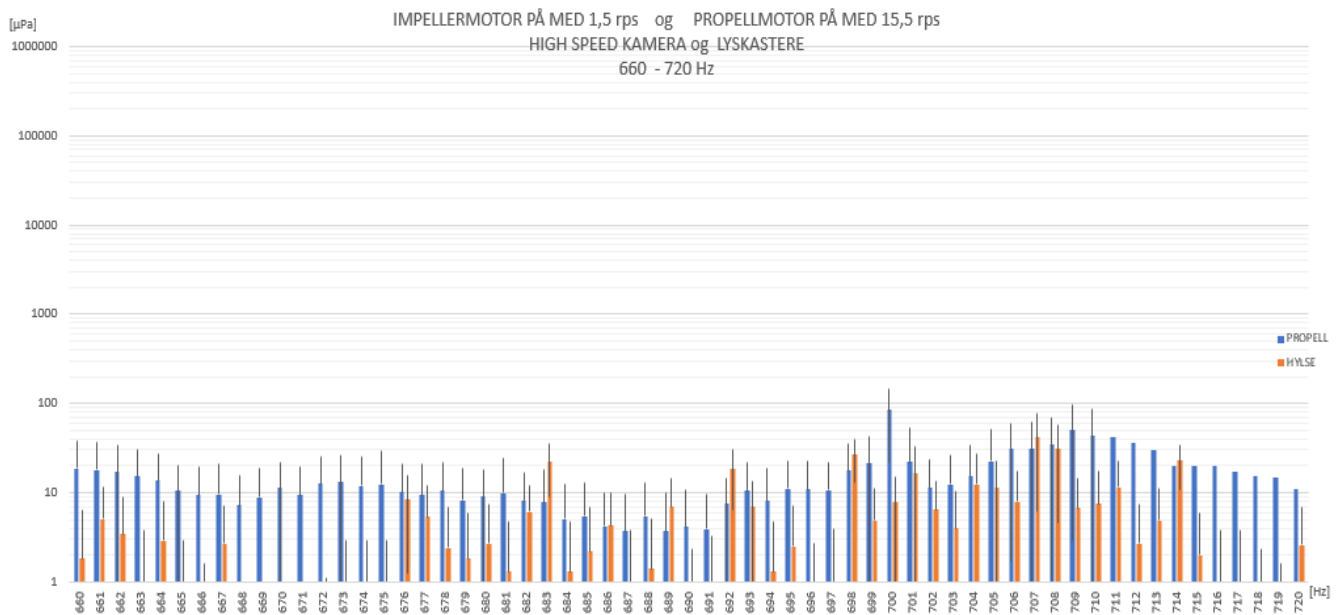
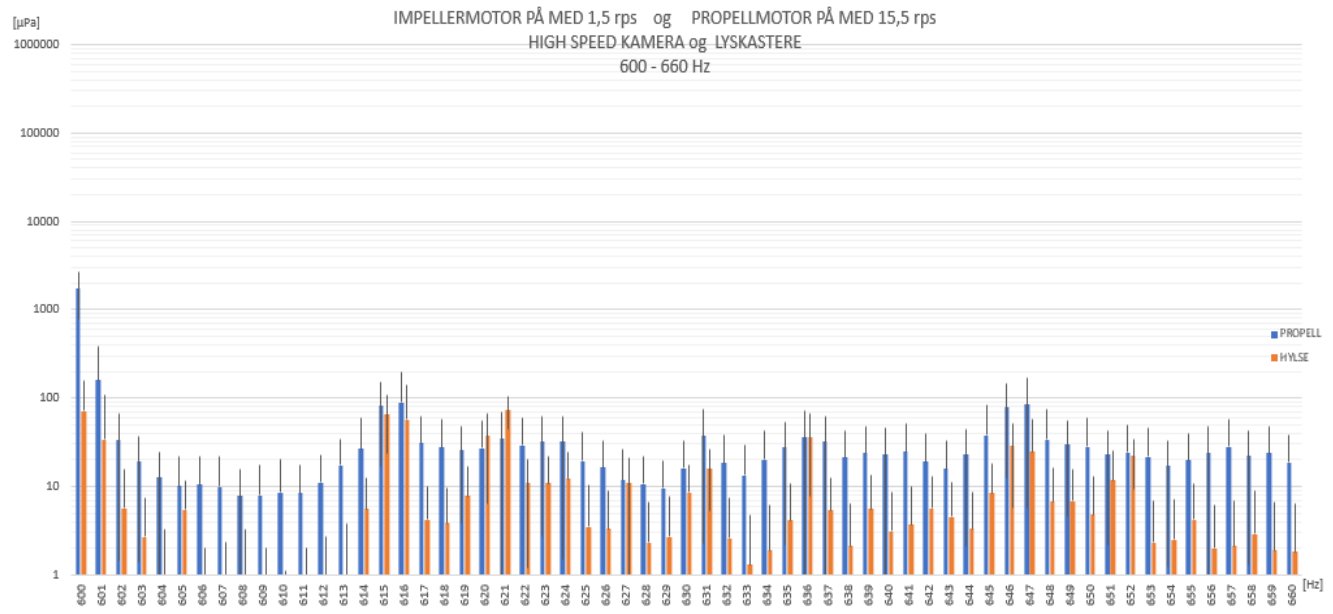
Scenario 24 og 44: Tabeller med impeller satt til 1,5rps, propellmotor går med 15,5rps. I tillegg er lys og high speed kamera innkoblet. Med og uten propell



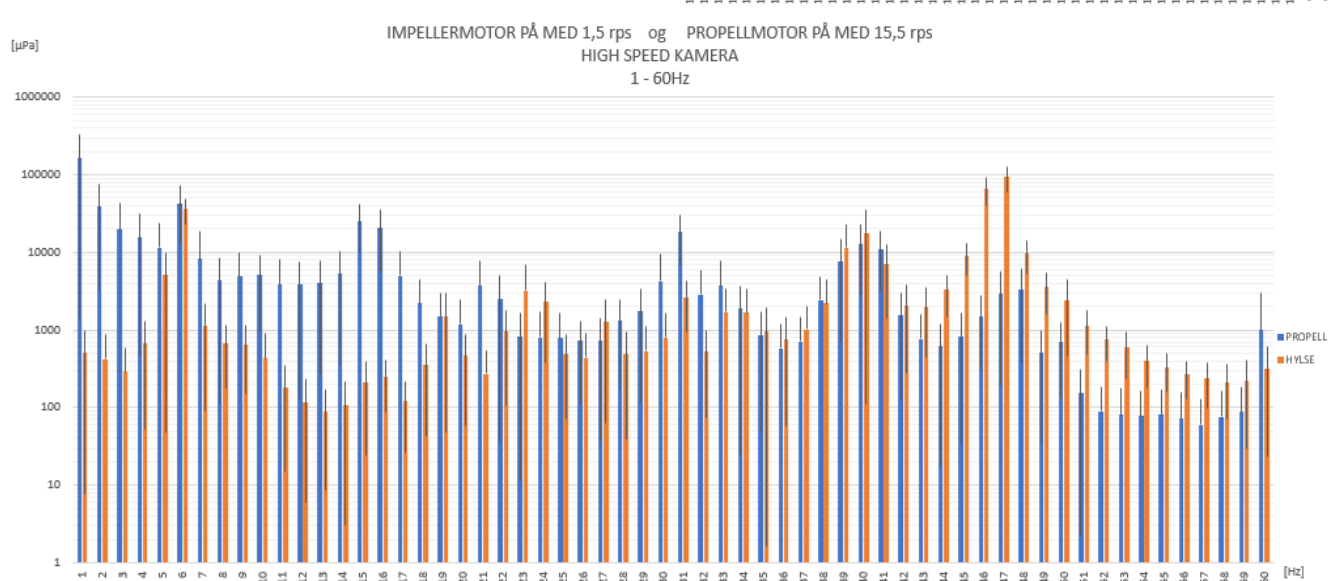
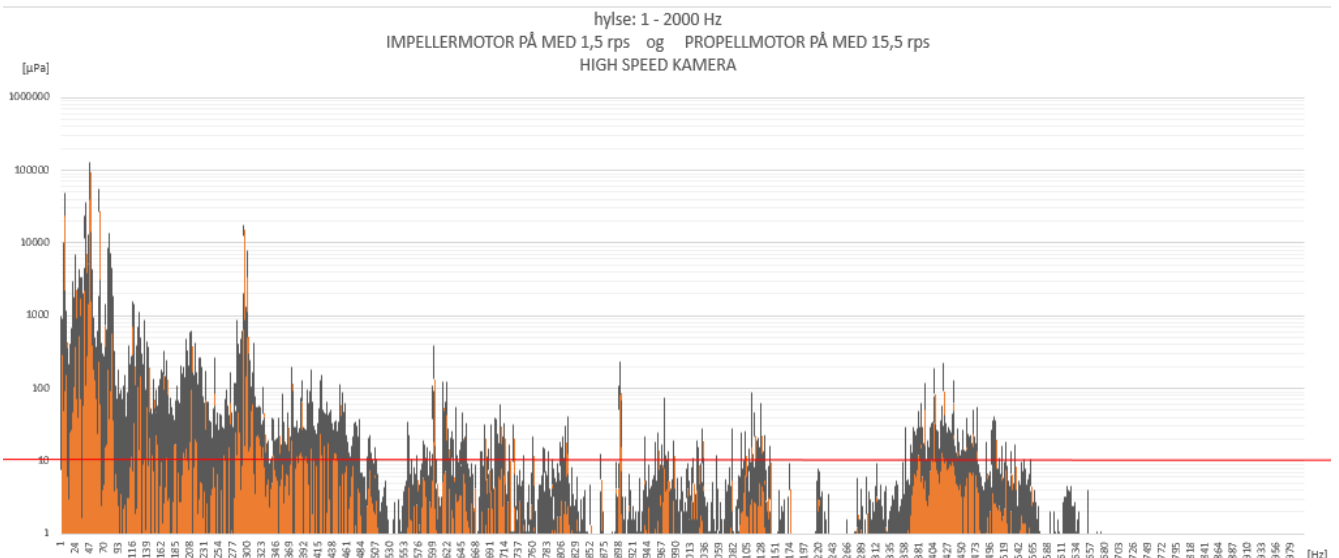
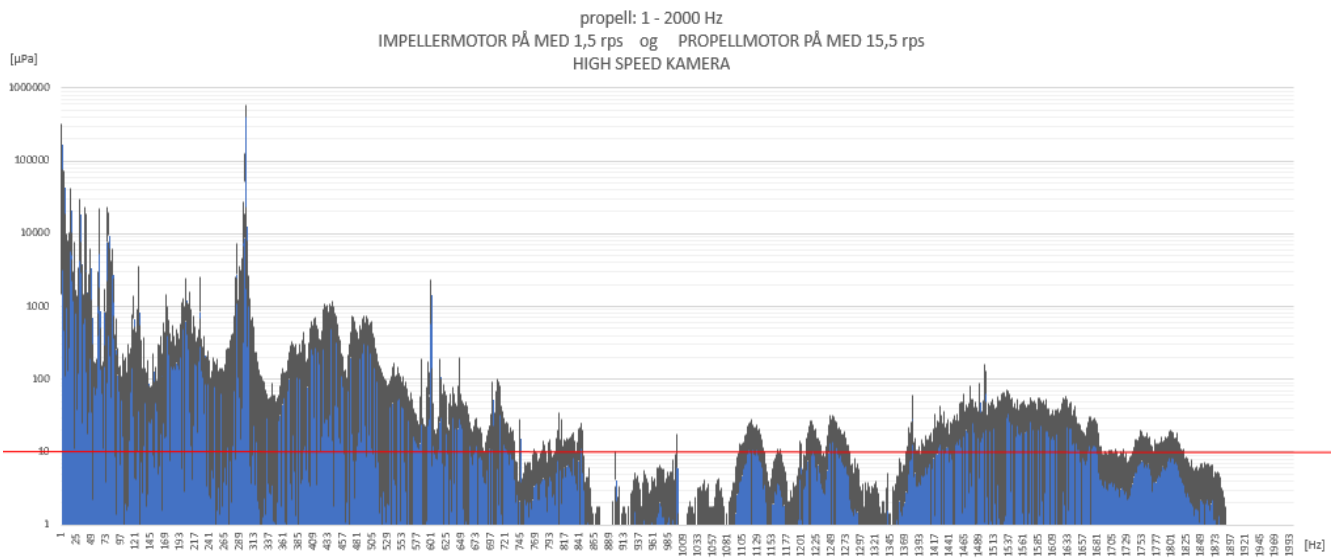


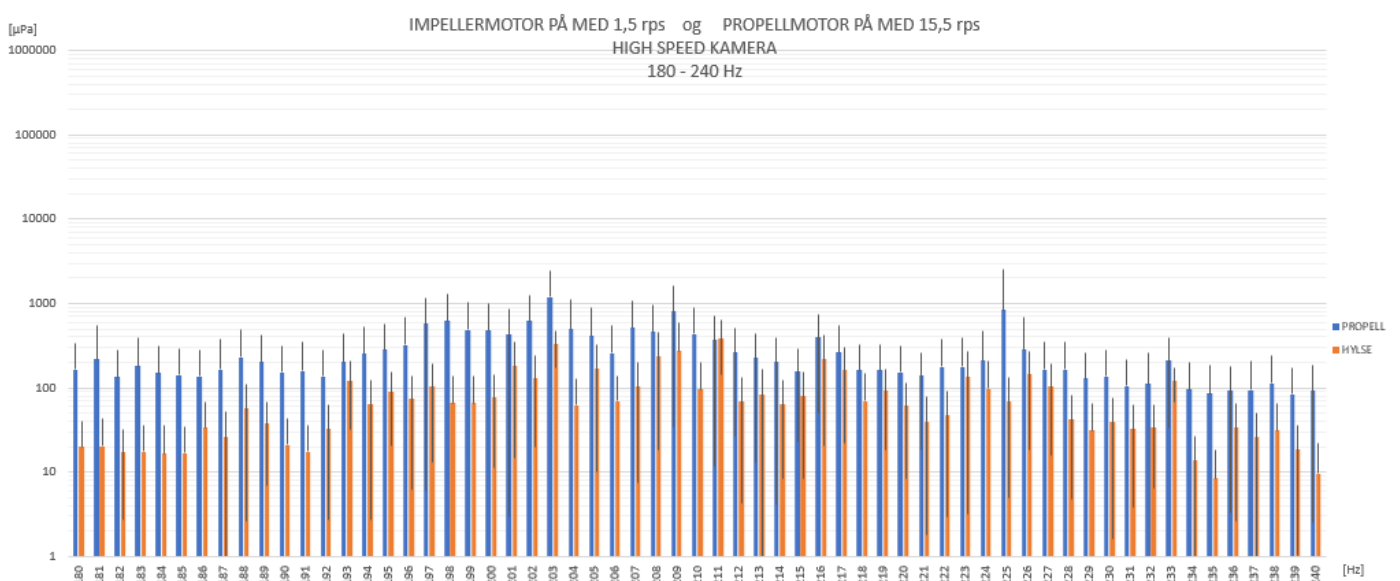
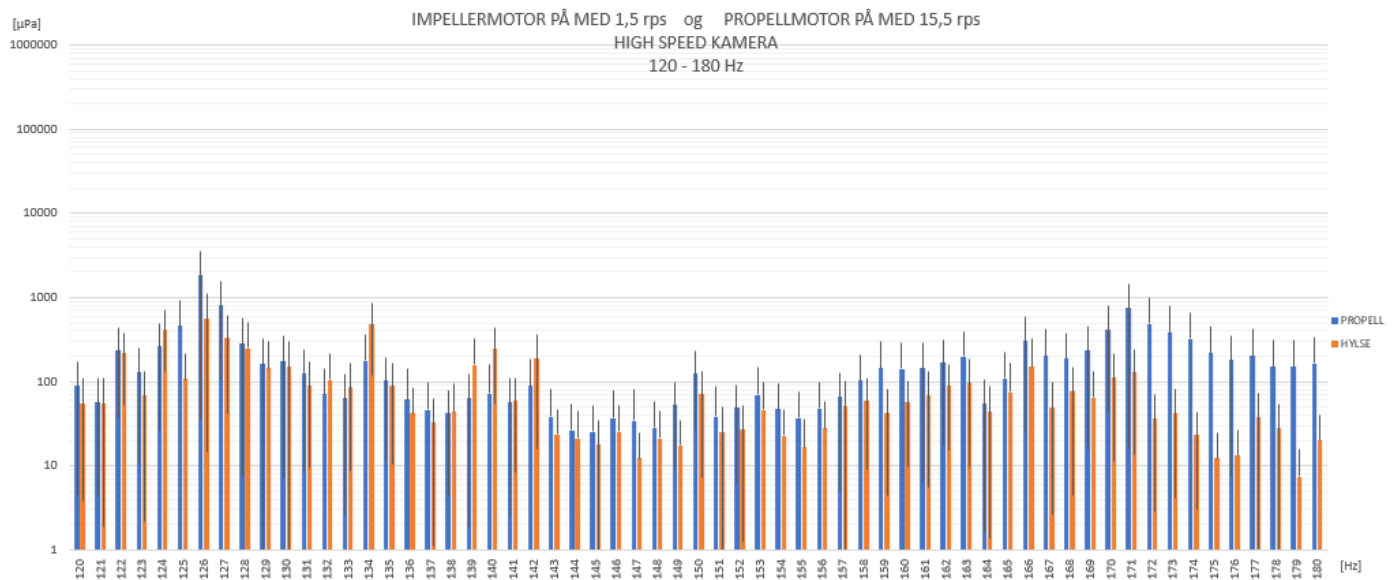
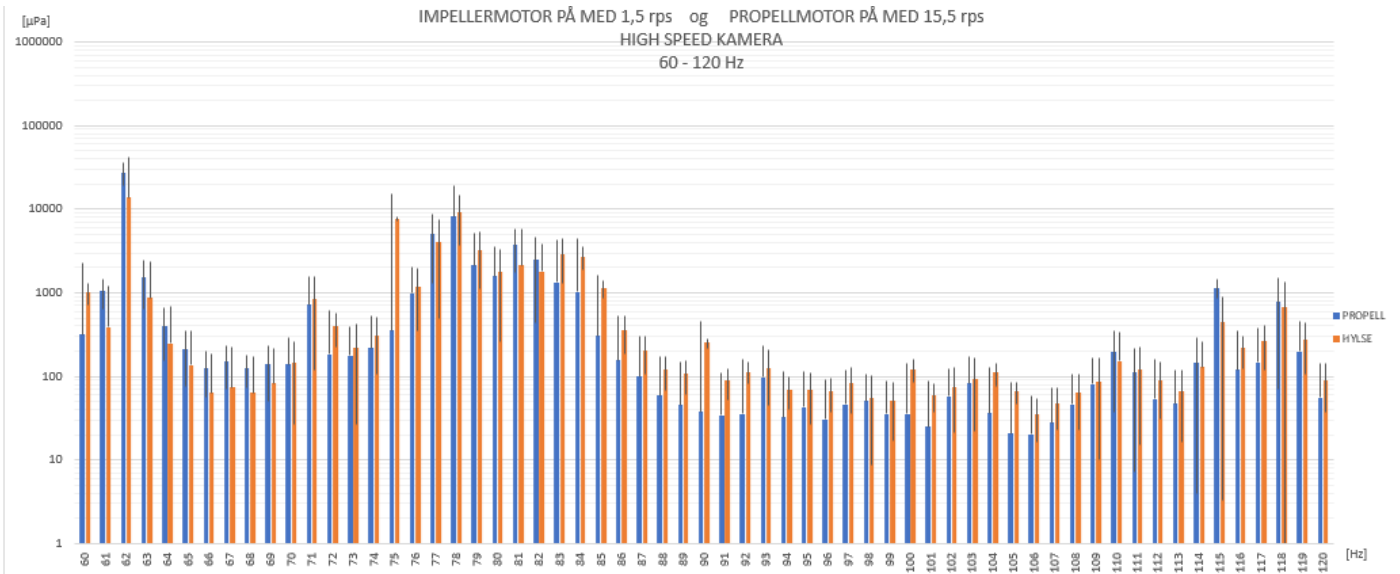


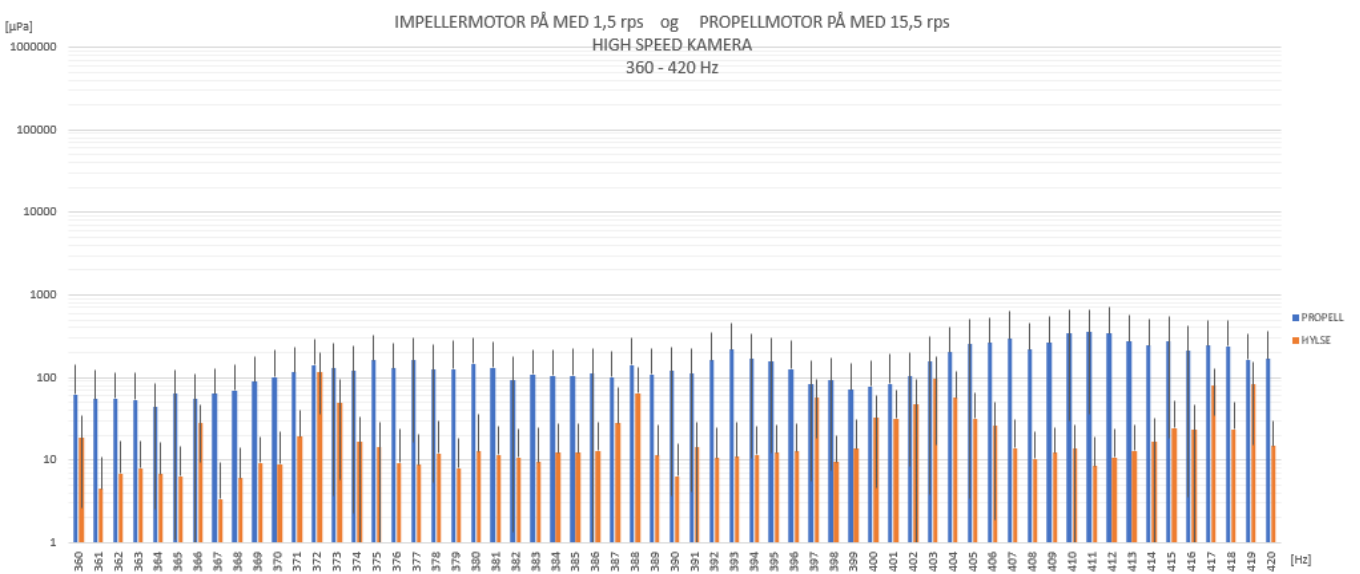
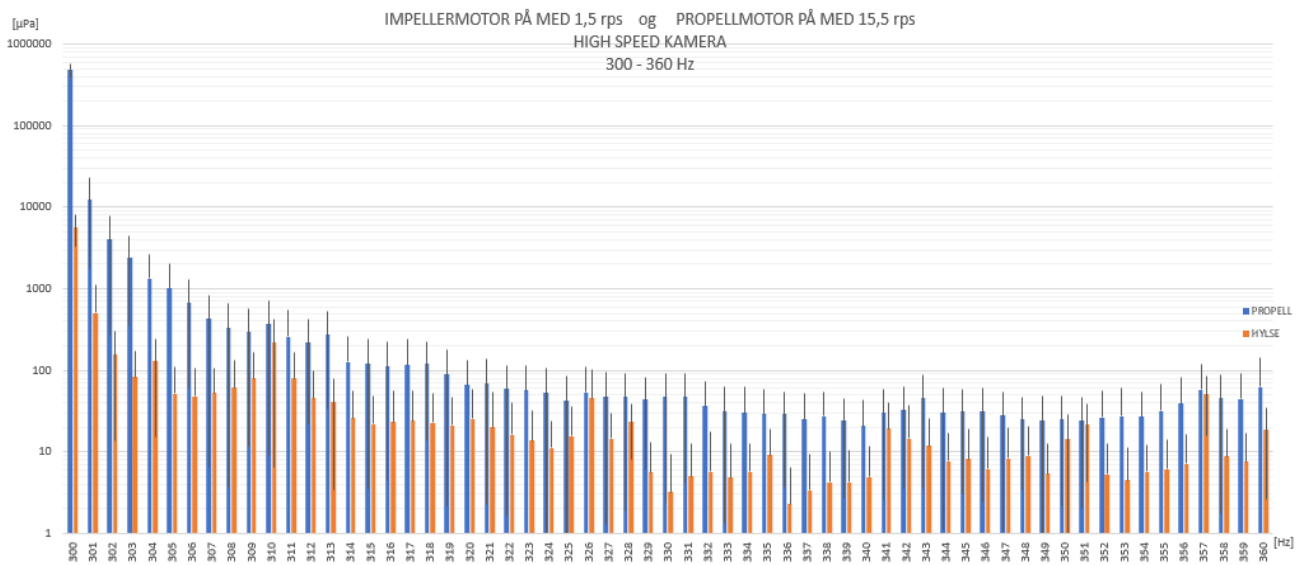
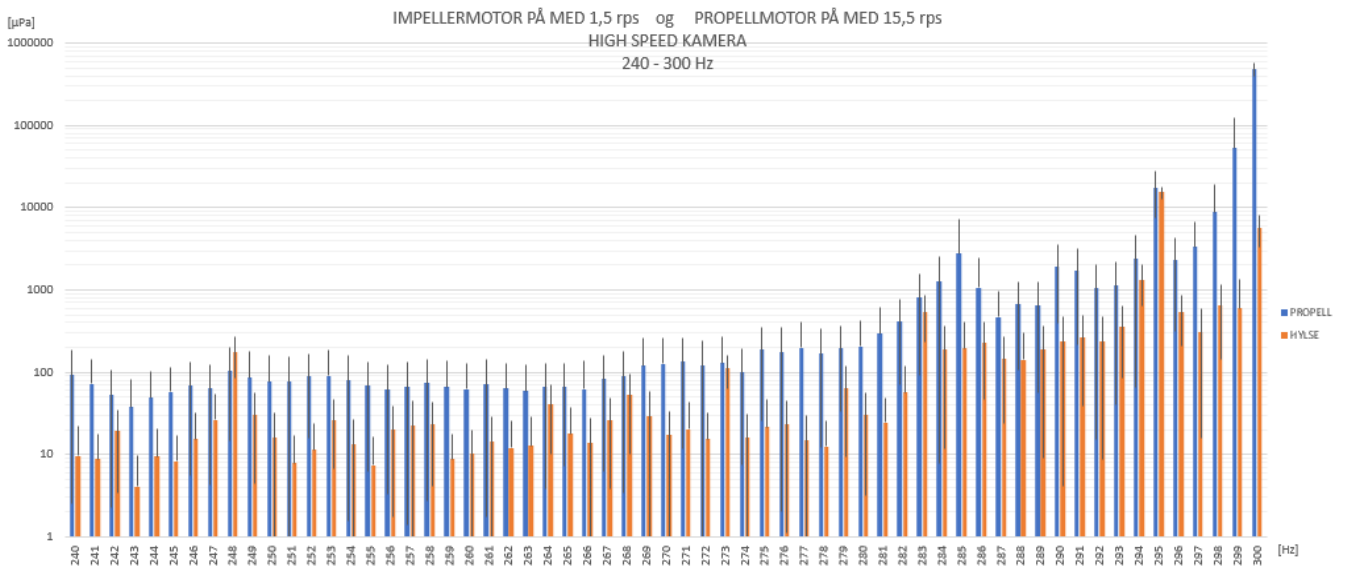


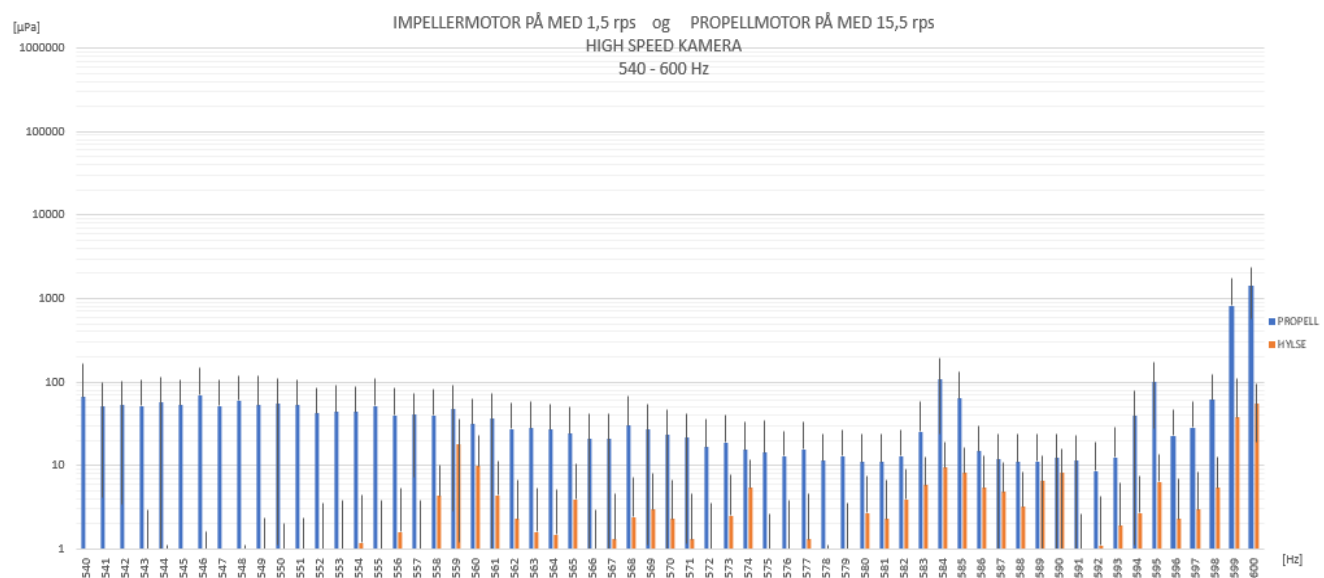
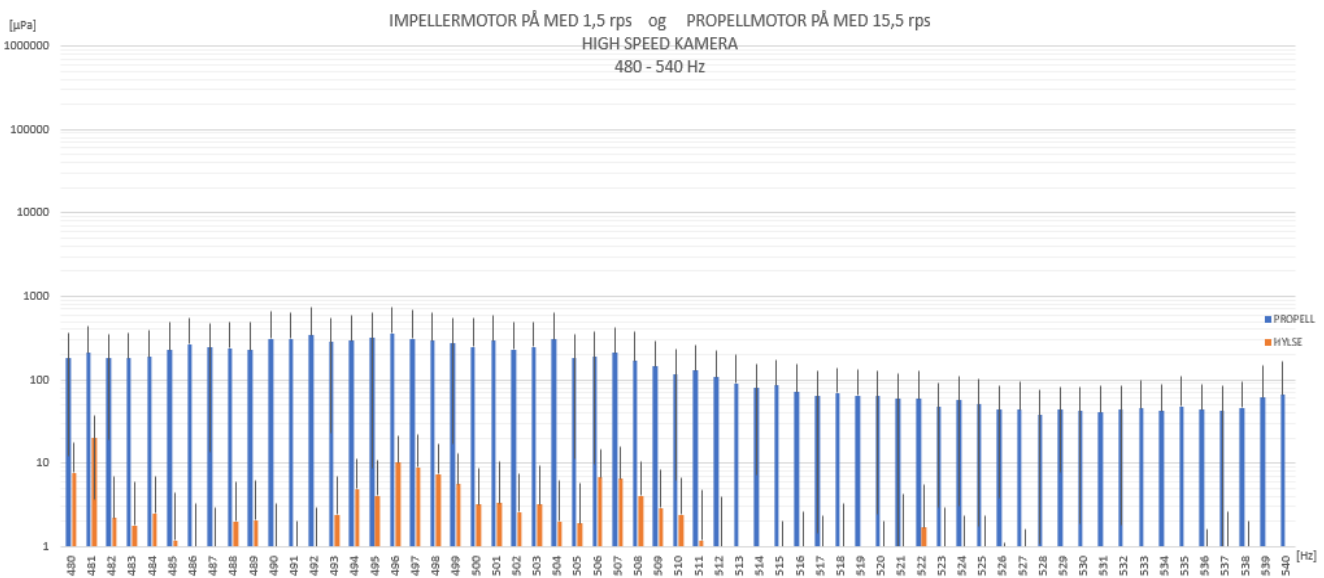
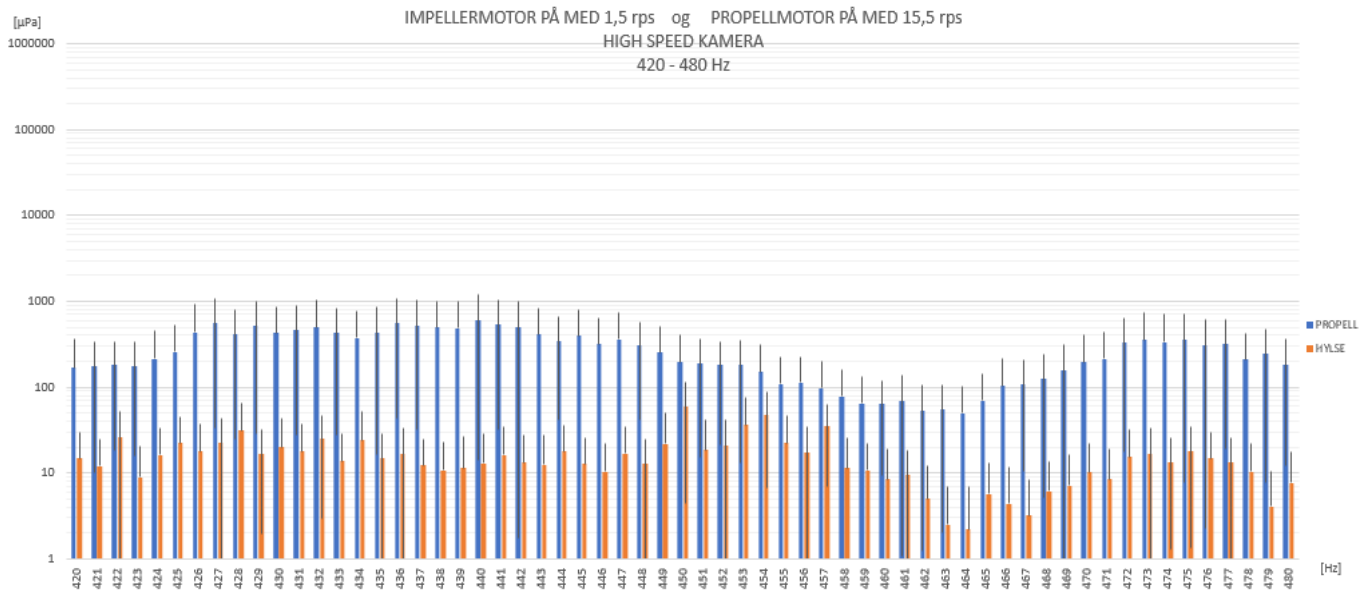


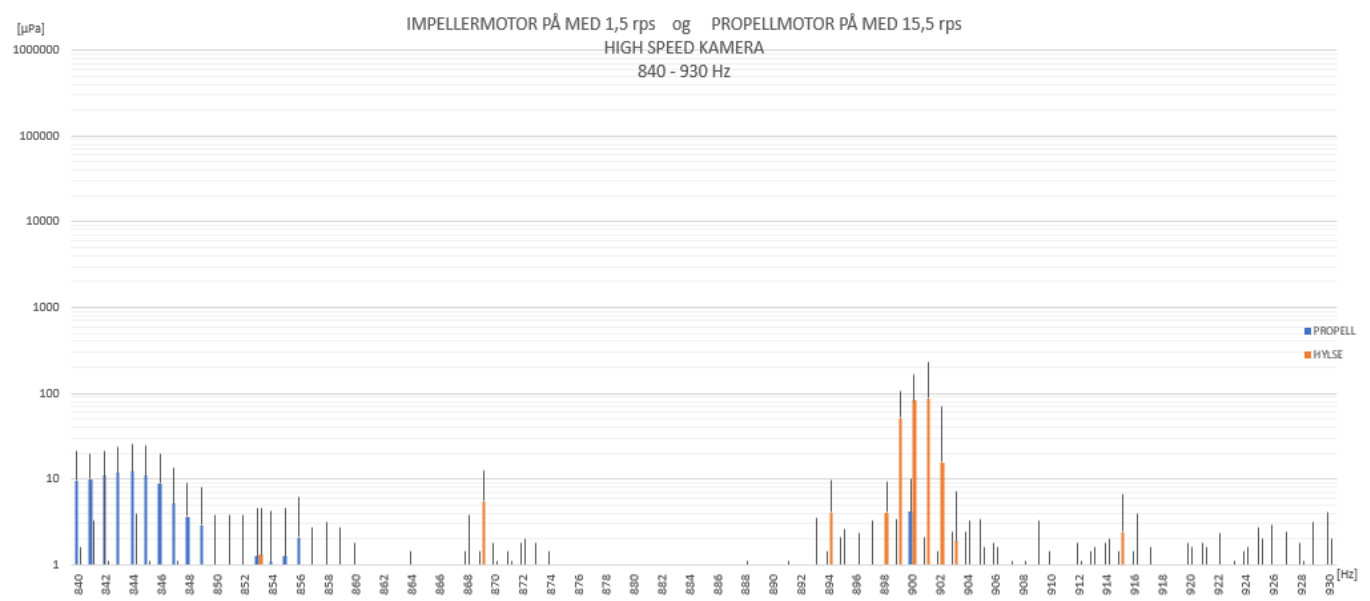
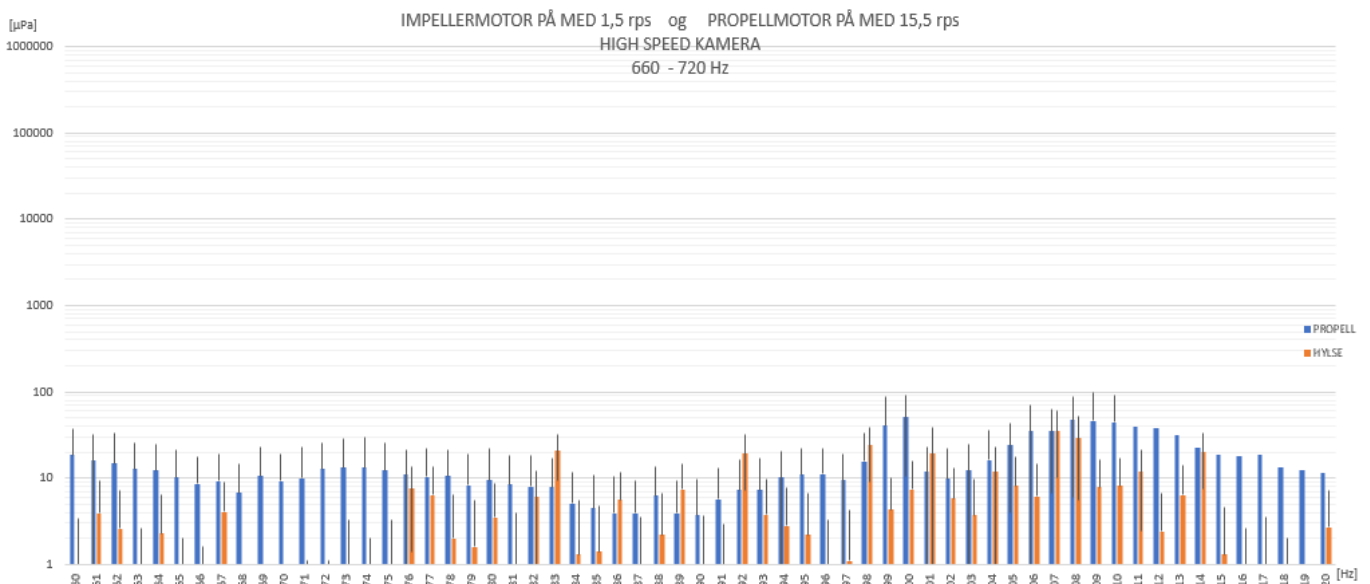
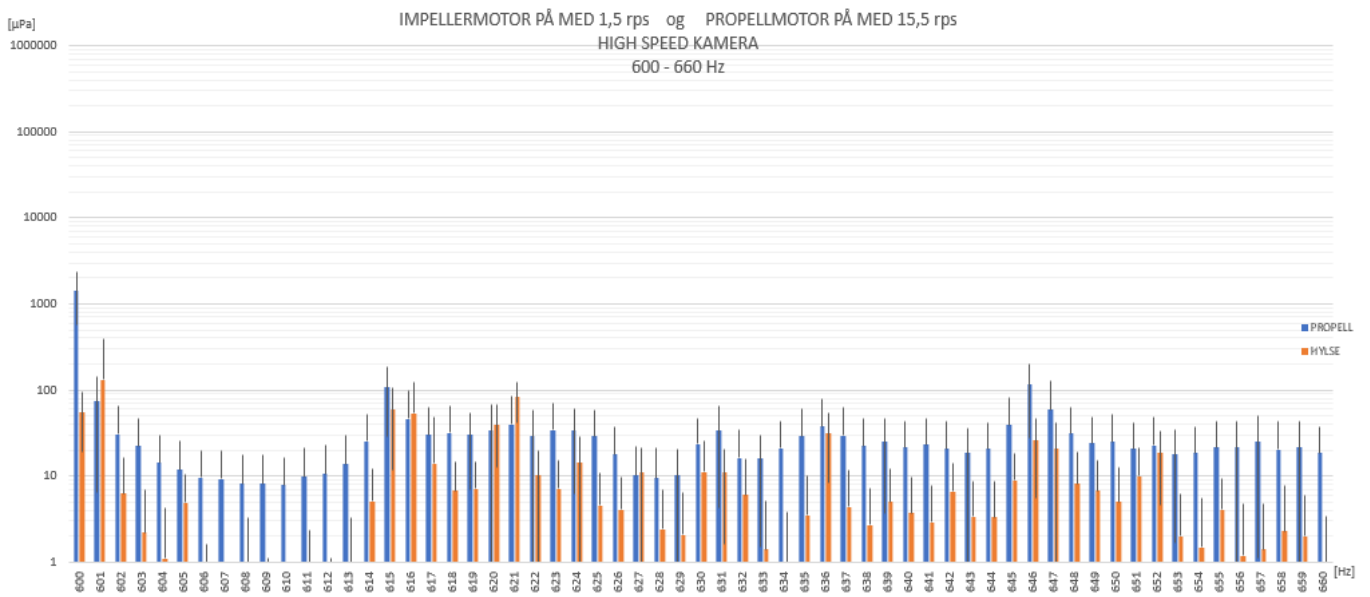
Scenario 25 og 45: Tabeller med impeller satt til 1,5rps, propellmotor går med 15,5rps. I tillegg er kamera innkoblet. Med og uten propell











Scenario 26/46: Tabeller med baseline slutt

