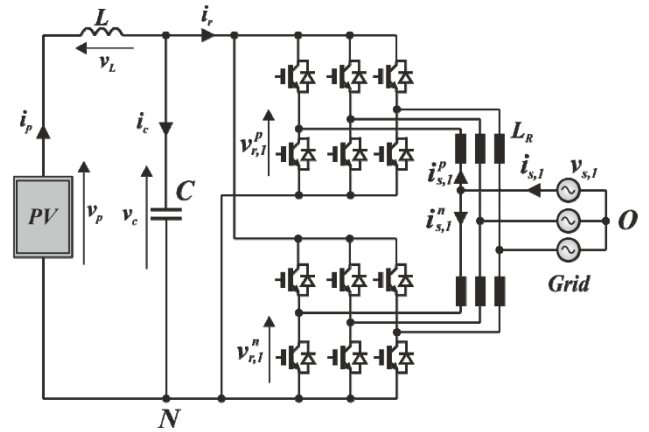
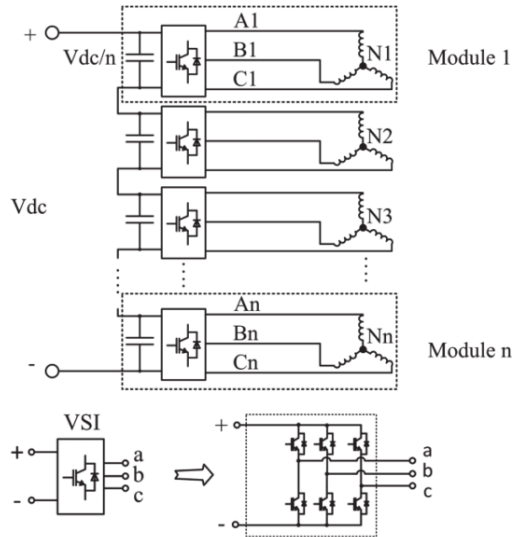
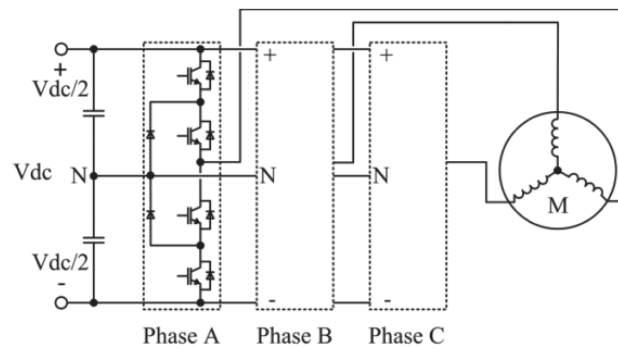


- **Makalede son durum**

- 2-level with IGBT
- 2-level 2-series with GaN
- 2-level 2-series 2-parallel with GaN



- 3-level - NPC with GaN



- 3-level - NPC 2-parallel with GaN

- **AC Side**

THD data of Voltage and current

Harmonic Spectrum Data of the Current and the Voltage

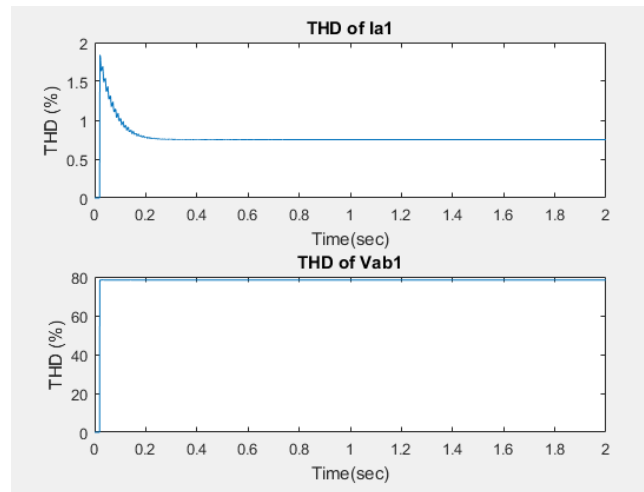
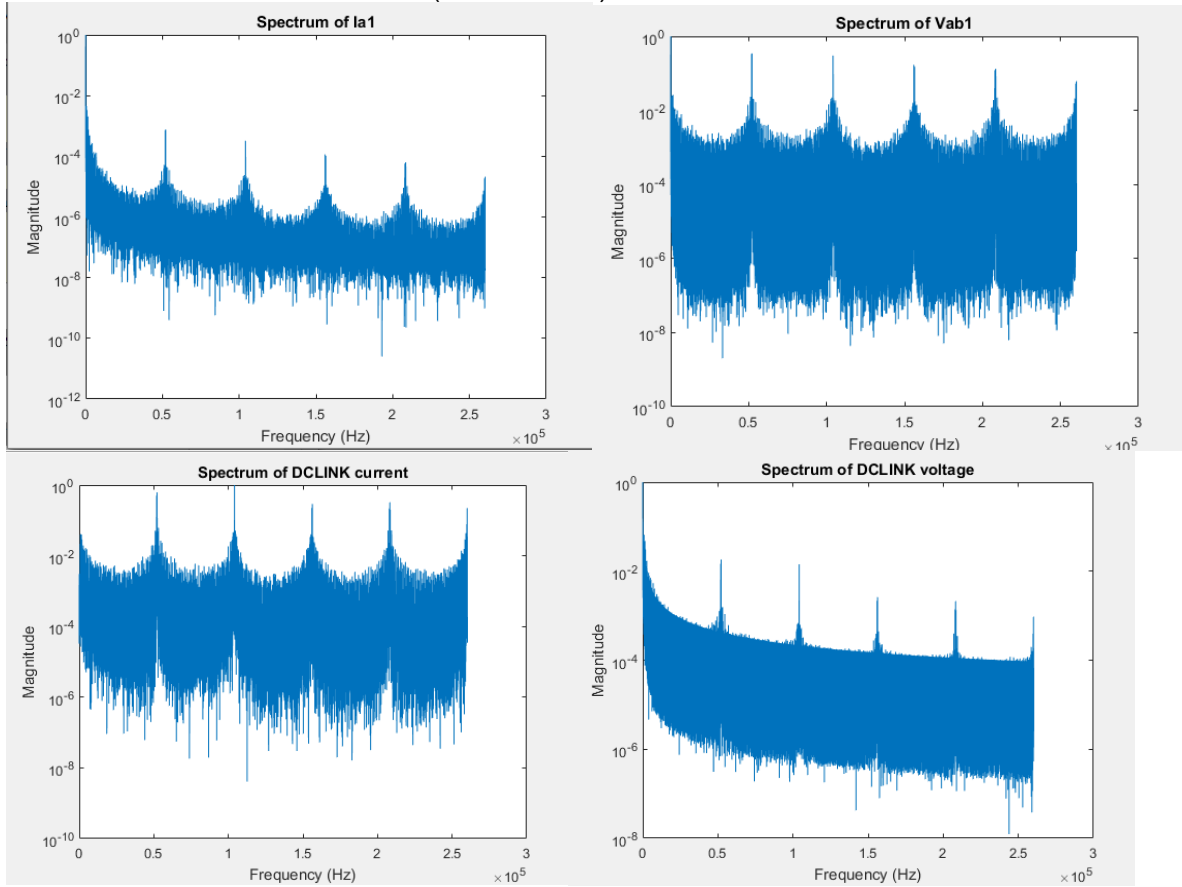
- **DC Side**

DC ripple current & voltage and their spectrum

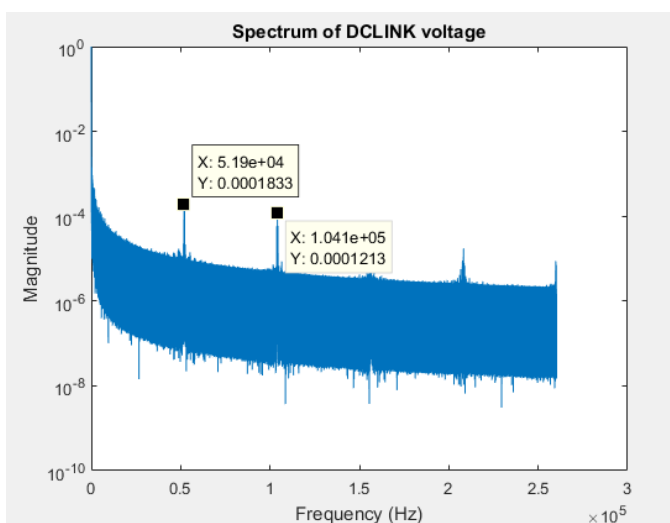
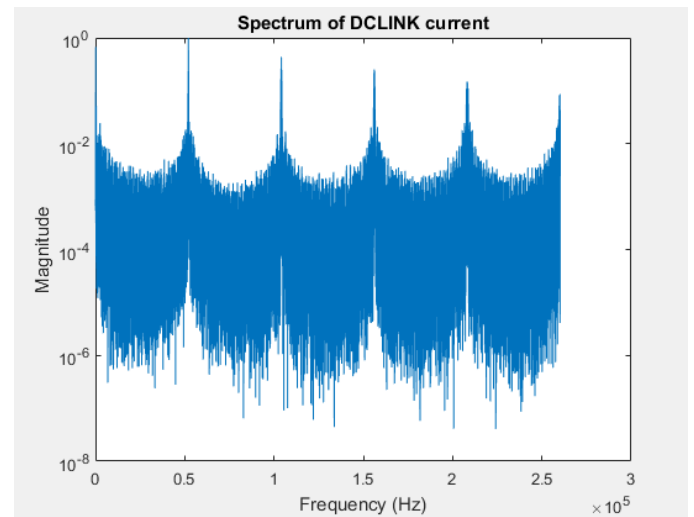
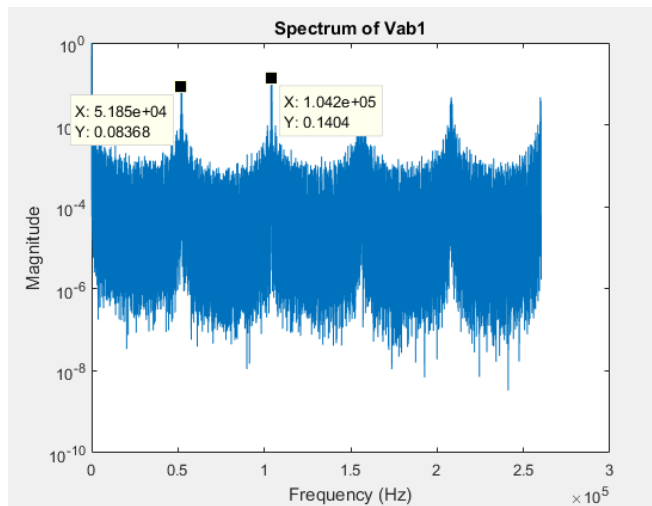
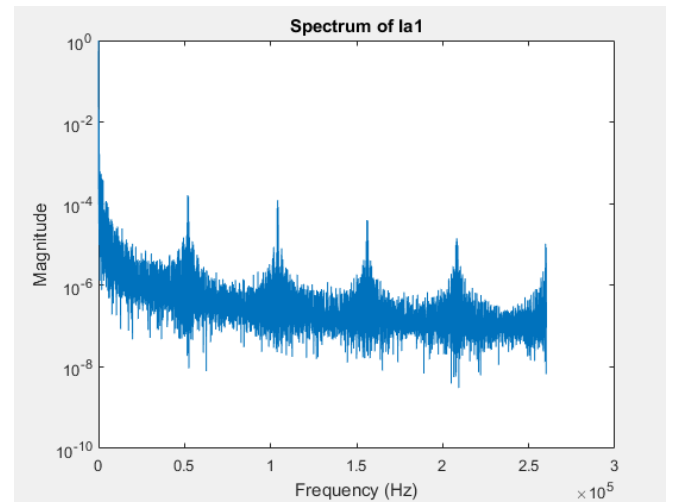
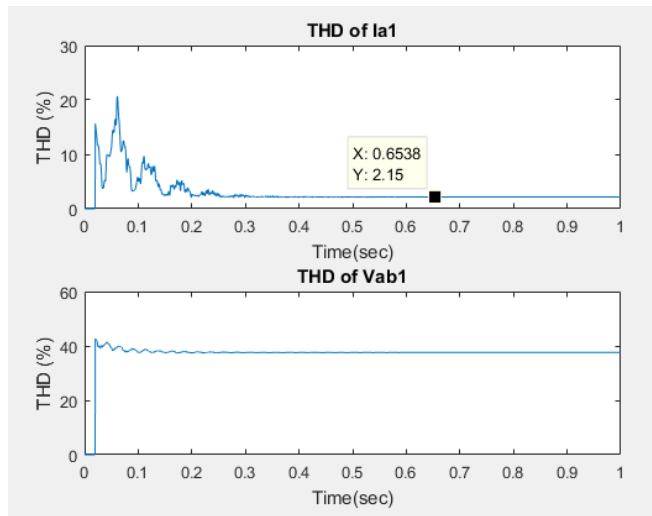
RMS value of the DCLINK current

Simülasyon sonuçları

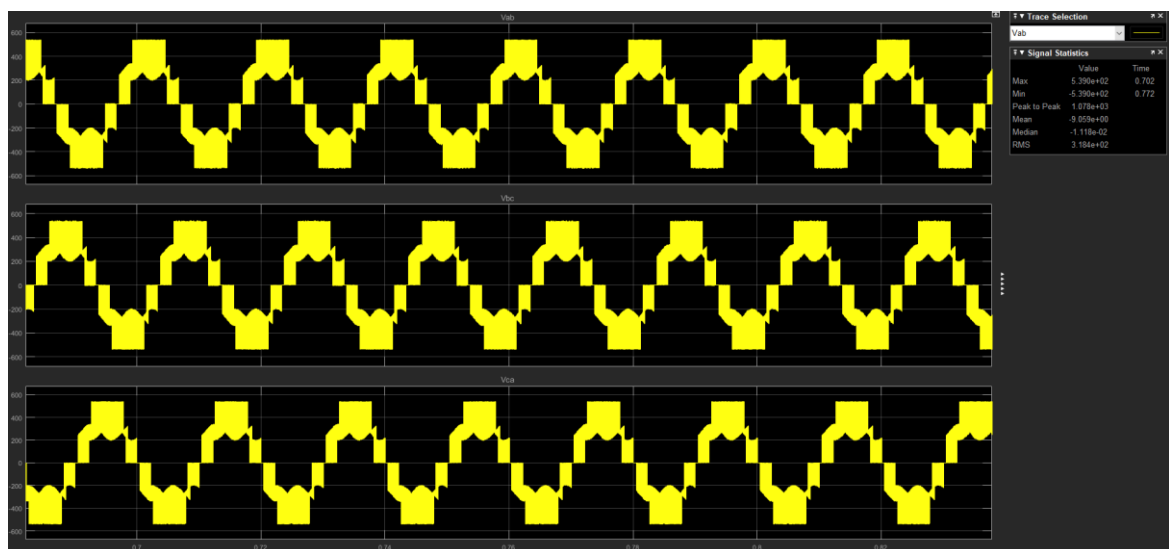
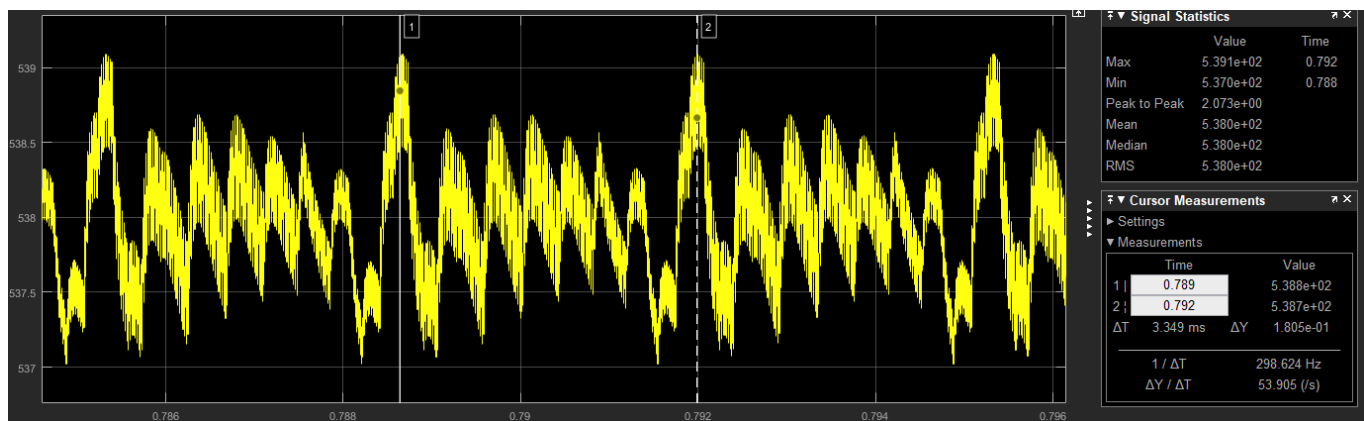
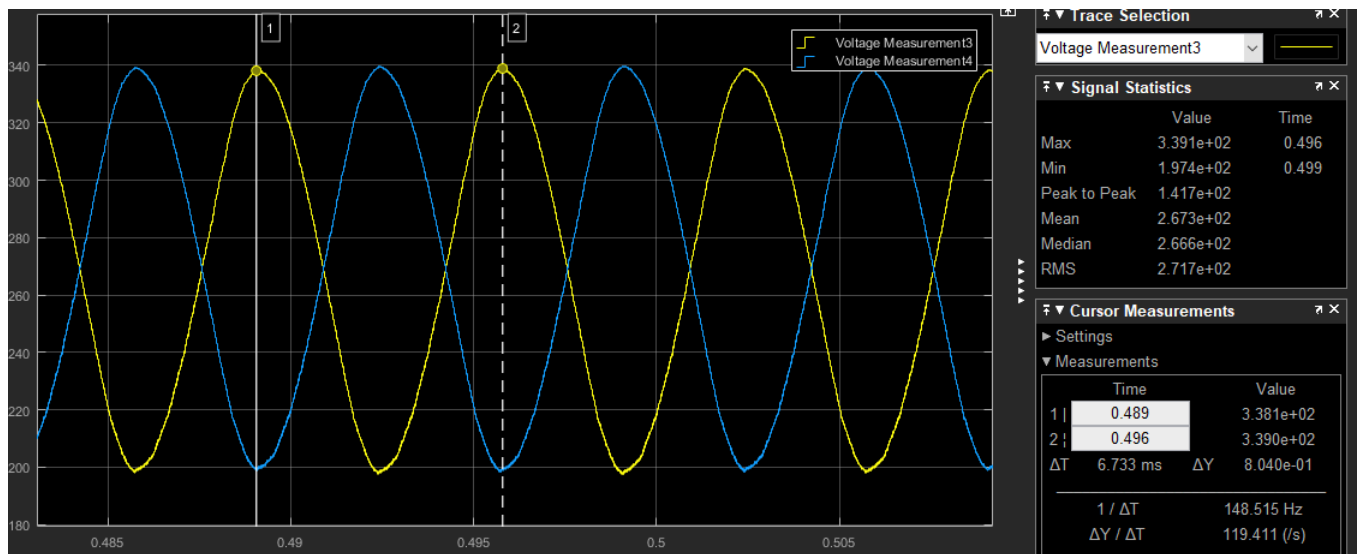
- 2-level with IGBT (fsw = 52050)

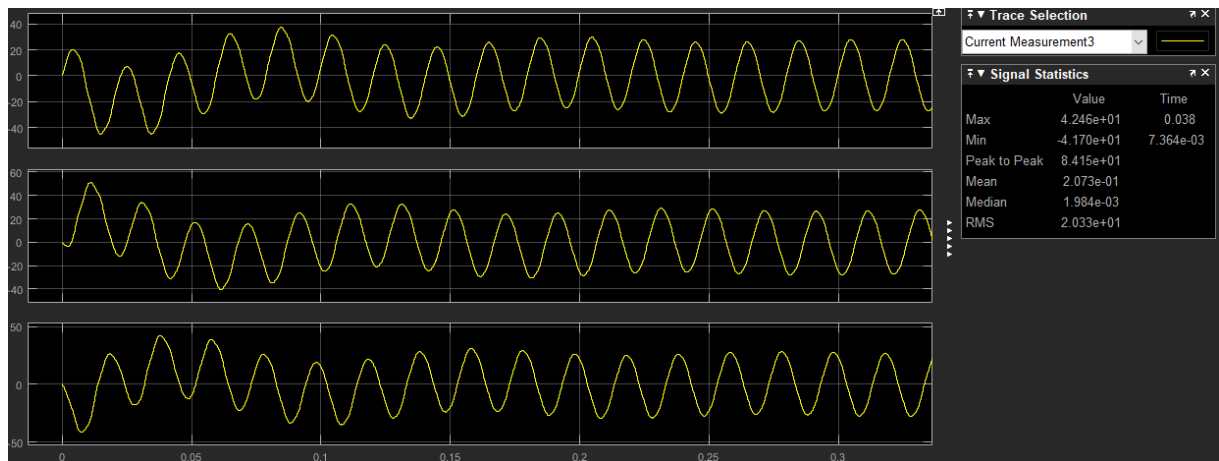


○ 3-level - NPC with GaN



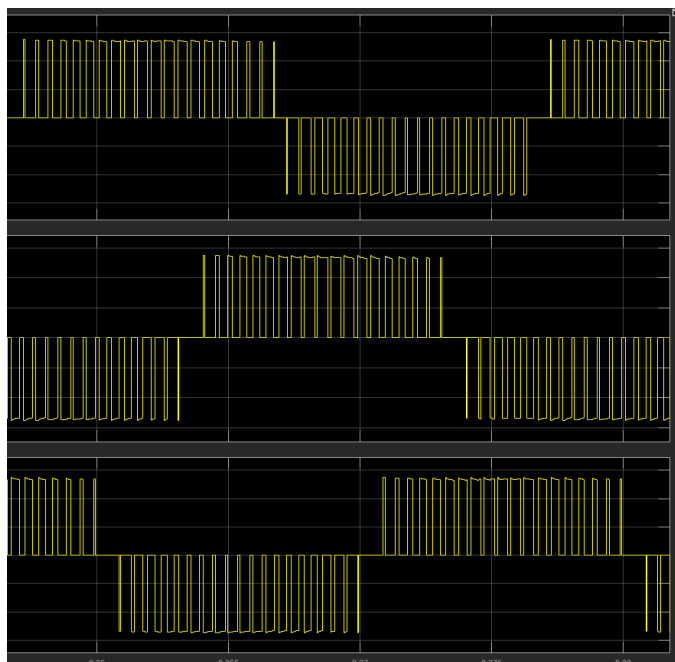
upperc Vcrms value is: $2.731555e+02$
lowerc Vcrms value is: $2.736530e+02$
Capacitor voltage difference is: $3.552319e-02$
DCLINK Vrms value is: $5.379781e+02$
DCLINK Icrms value is: $1.106565e+01$
Ineutralrms value is: $1.934377e+01$





Some problems

Sawtooth carrier:



Triangle carrier:

