



Convergentia | ANTENNA

# **San Marco**

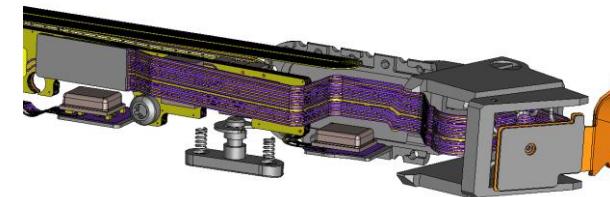
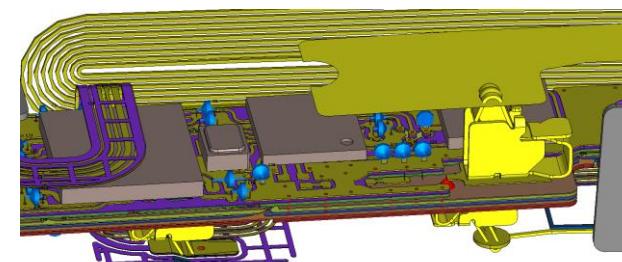
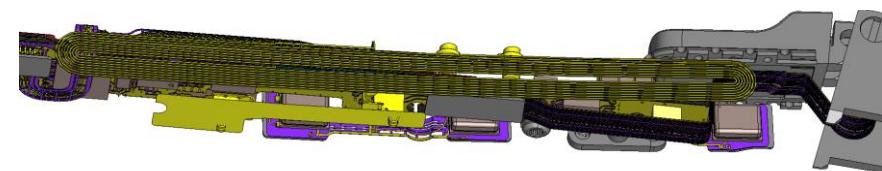
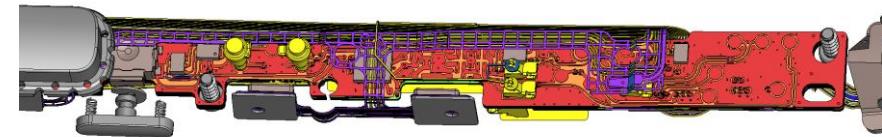
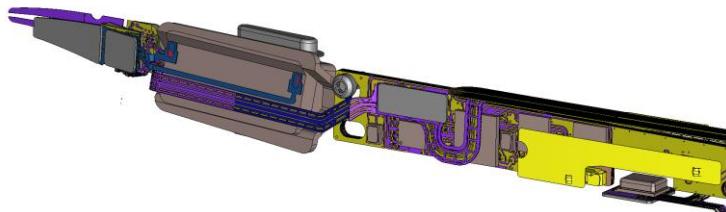
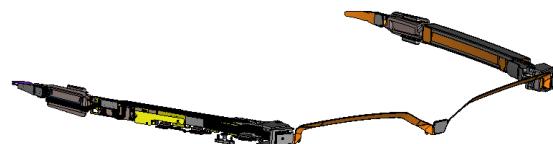
## **hybrid loop gain patterns**

### **- SFR12 i.e EVT1 simulation**

27th Sep 2024, Sami Hienonen

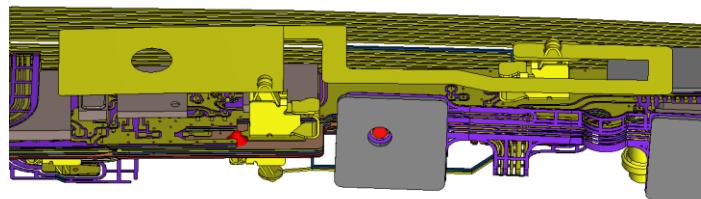
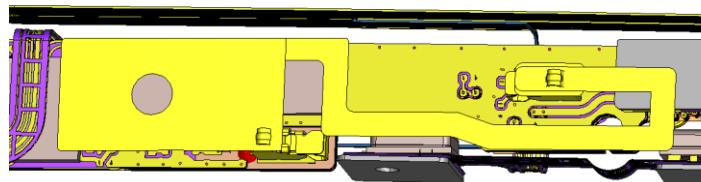
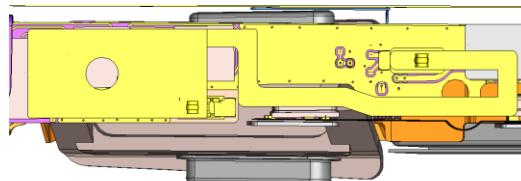
# SFR12 simulation model for EVT1

All layouts included

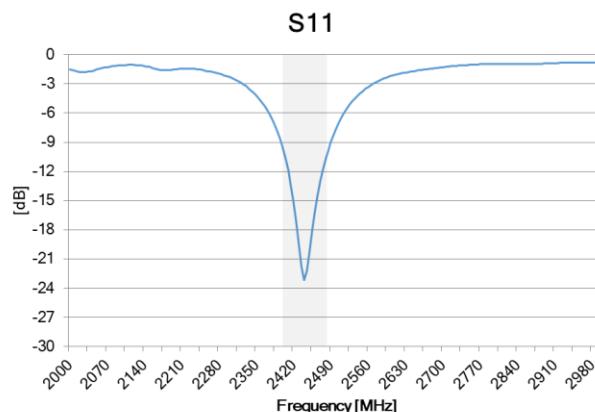
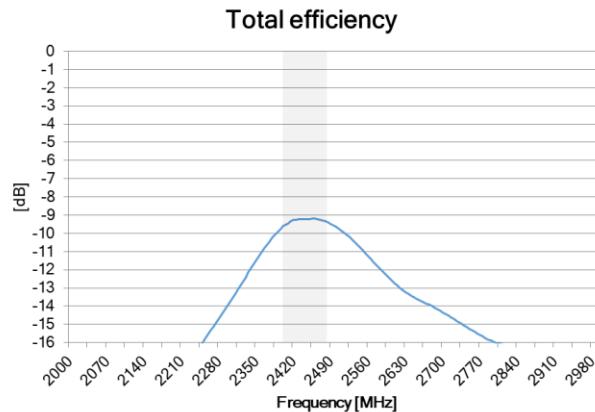


# Antenna

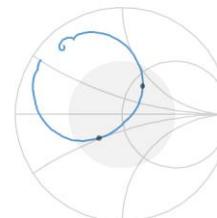
Hybrid loop



# Simulated S11 and total efficiency, hybrid loop - SAM

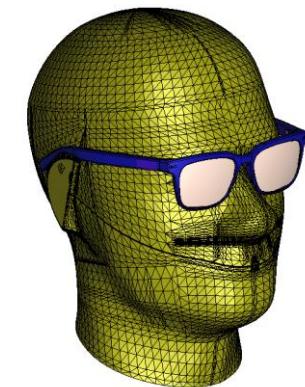


2000 - 3000 MHz



SFR12, Base3, Rstem, Rmic, center and WLC fpc layouts,  
Hybrid Loop antenna pattern, layout matched (SAM)

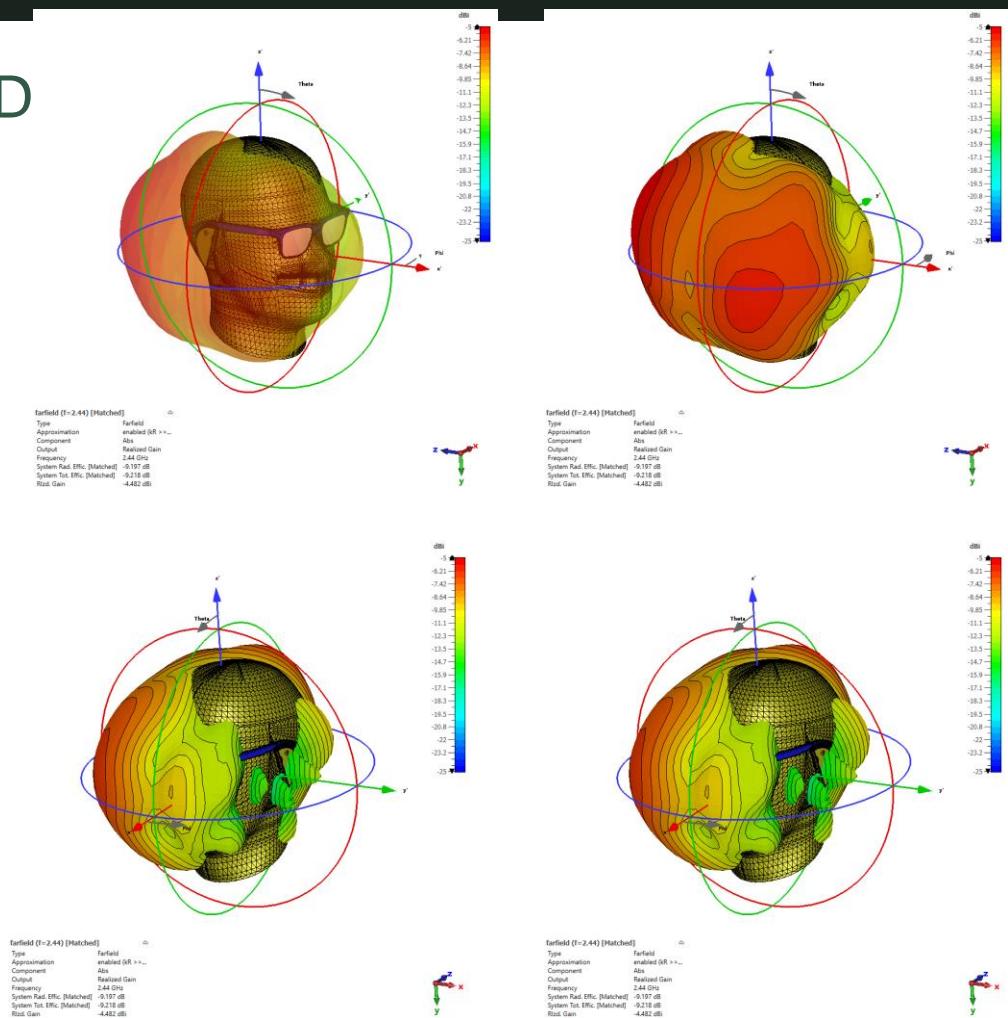
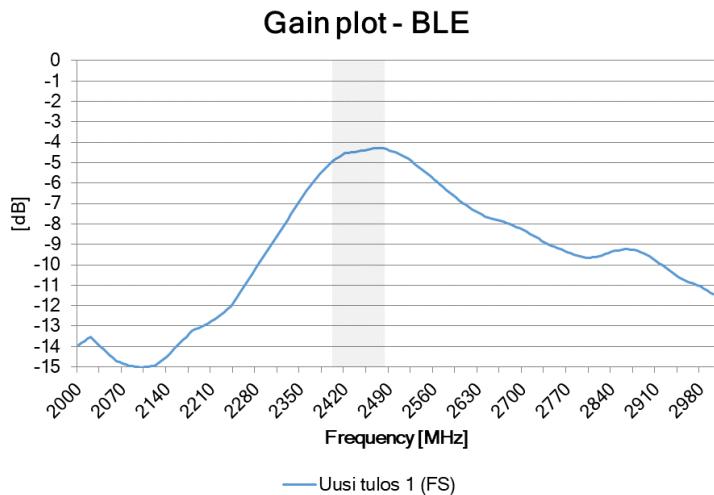
Simulated total efficiency is -9.3 dB.



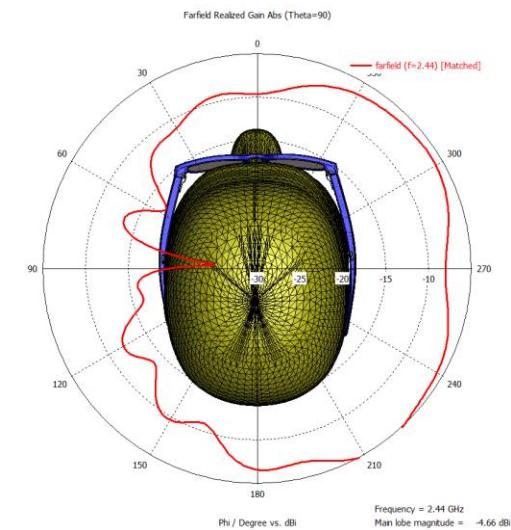
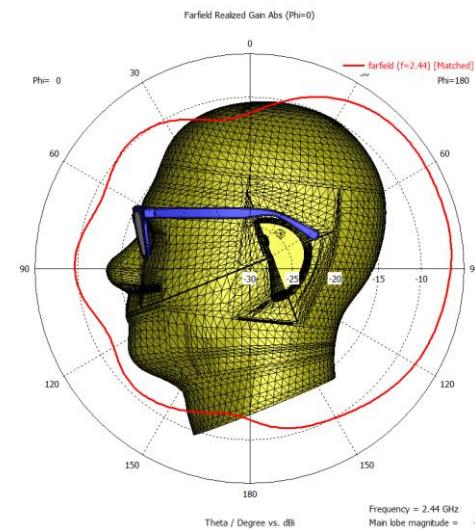
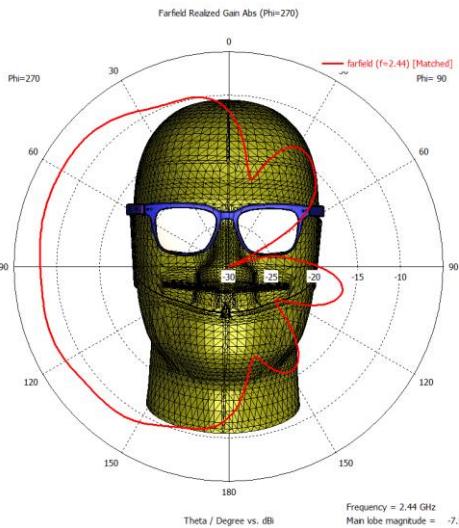
SFR12, Base3, Rstem, Rmic, center and WLC fpc layouts, Hybrid Loop antenna  
pattern, layout matched (SAM)

# Simulated gain patterns – 3D

Simulated peak gain is -4.3 dBi



# Simulated gain patterns cuts



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