



Convergentia

ANTENNA

San Marco

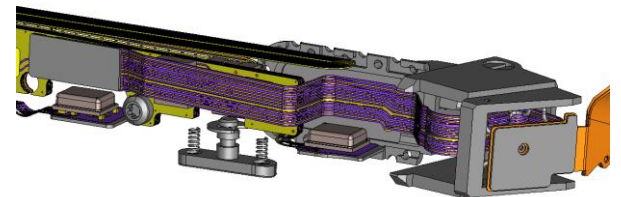
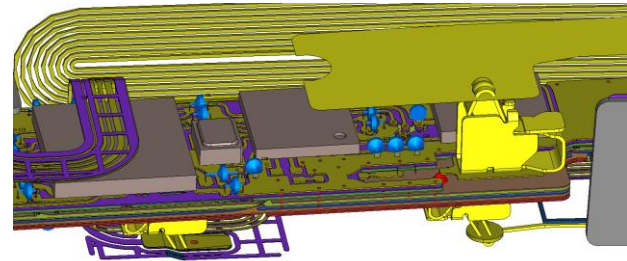
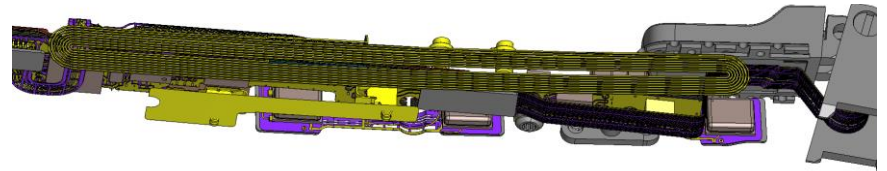
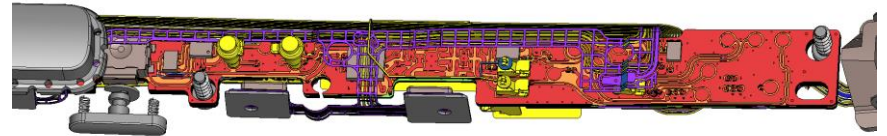
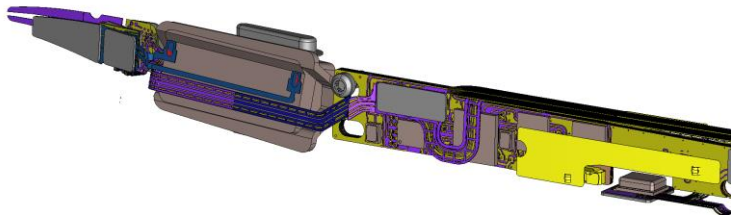
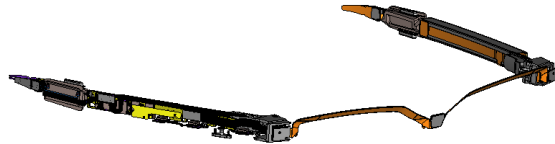
hybrid loop gain patterns

- SFR12 i.e EVT1 simulation

27th Sep 2024, Sami Hienonen

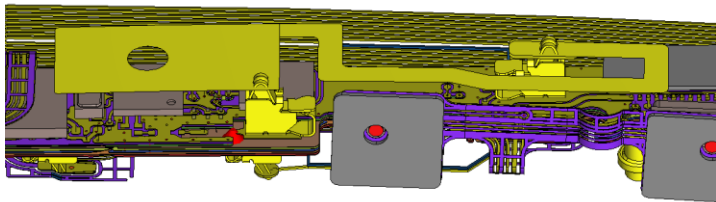
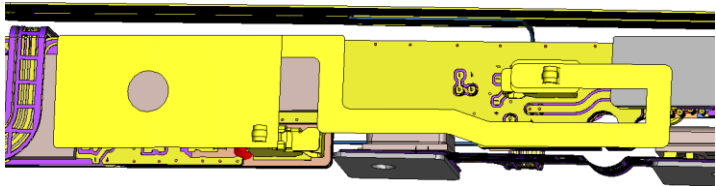
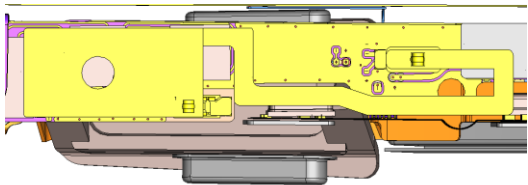
SFR12 simulation model for EVT1

All layouts included



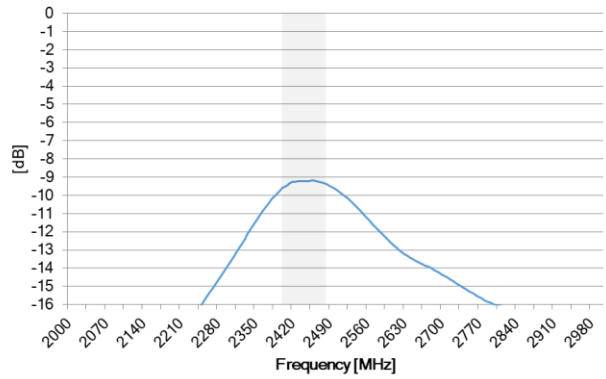
Antenna

Hybrid loop

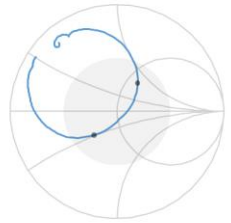


Simulated S11 and total efficiency, hybrid loop - SAM

Total efficiency



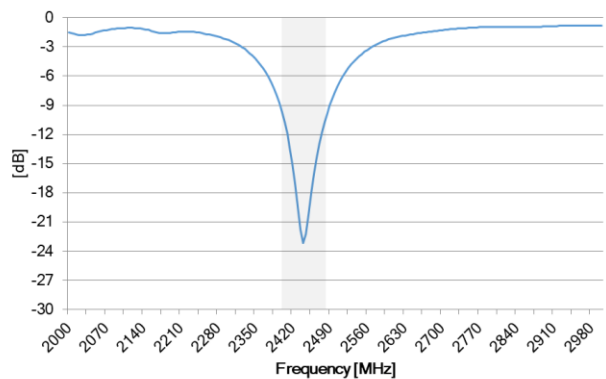
2000 - 3000 MHz



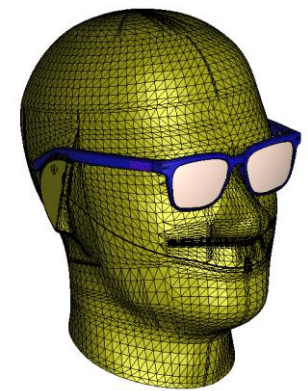
— SFR12, Base3, Rstem, Rmic, center and WLC fpc layouts, Hybrid Loop antenna pattern, layout matched (SAM)

Simulated total efficiency is -9.3 dB.

S11

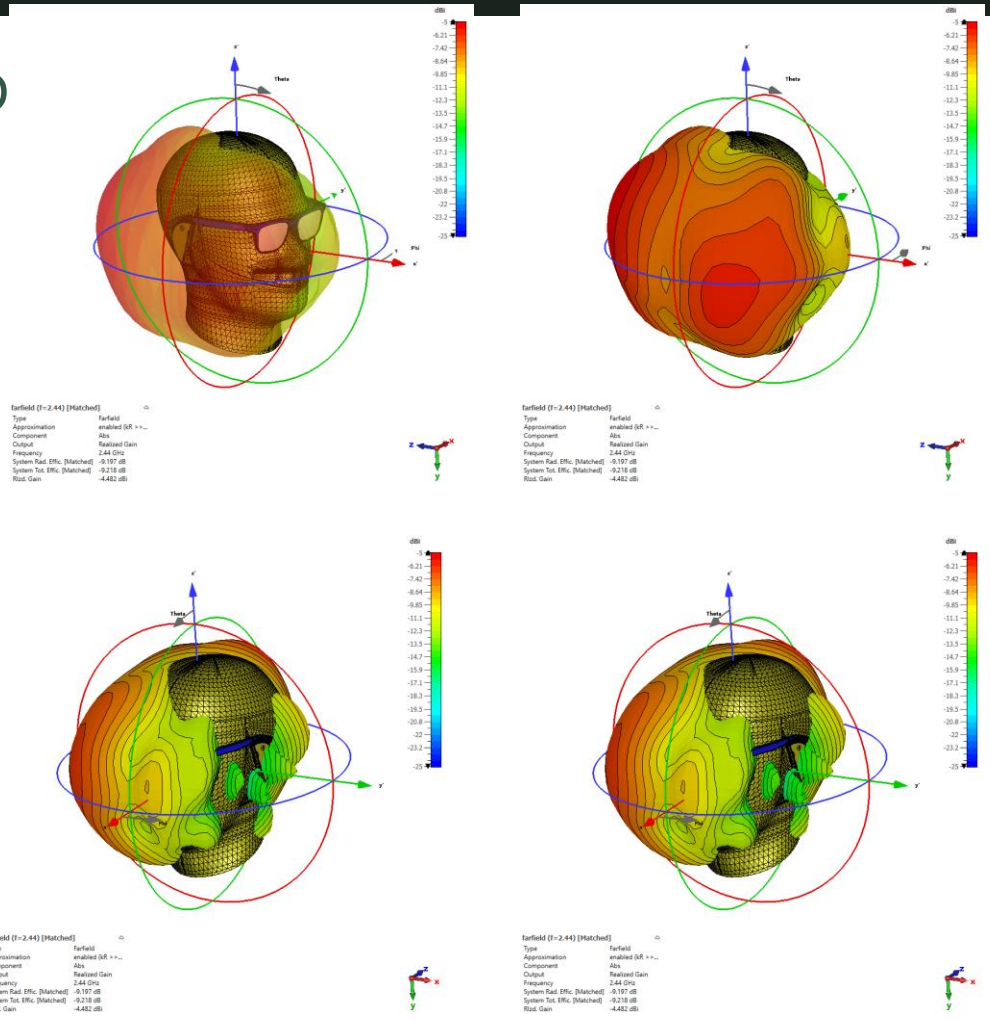
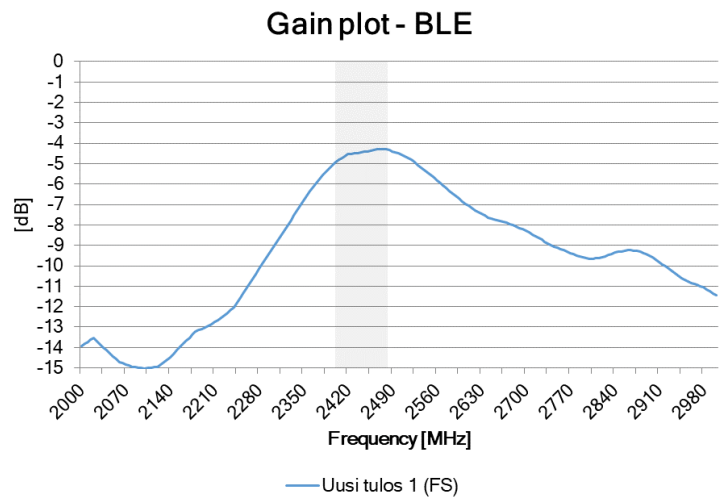


— SFR12, Base3, Rstem, Rmic, center and WLC fpc layouts, Hybrid Loop antenna pattern, layout matched (SAM)

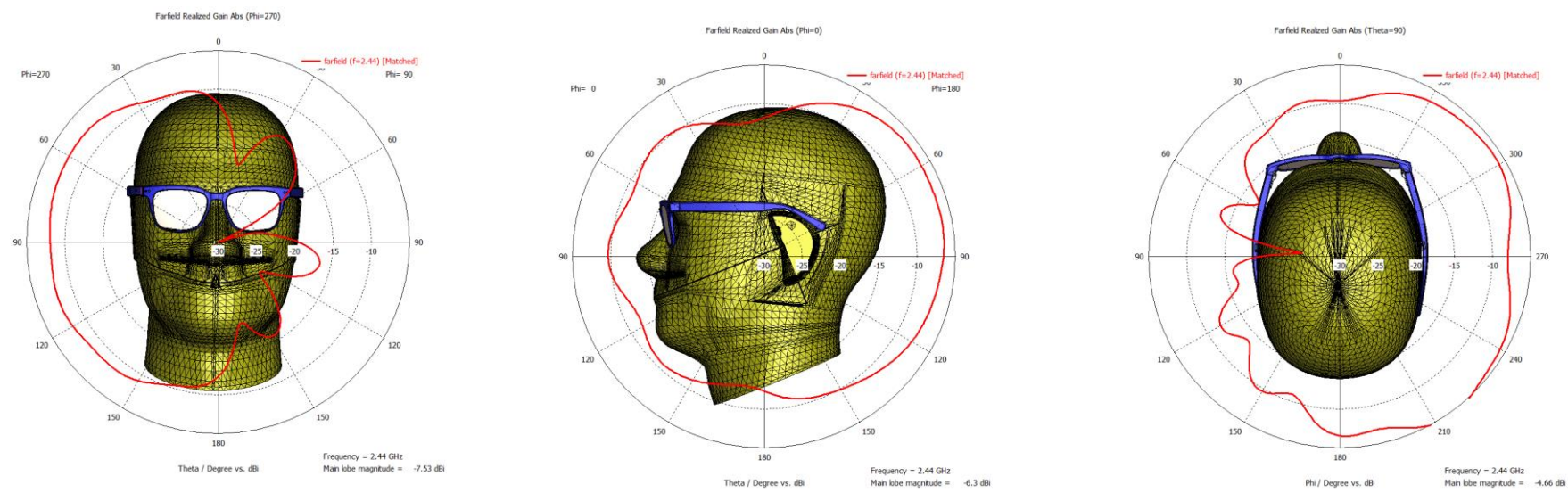


Simulated gain patterns – 3D

Simulated peak gain is -4.3 dBi



Simulated gain patterns cuts



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