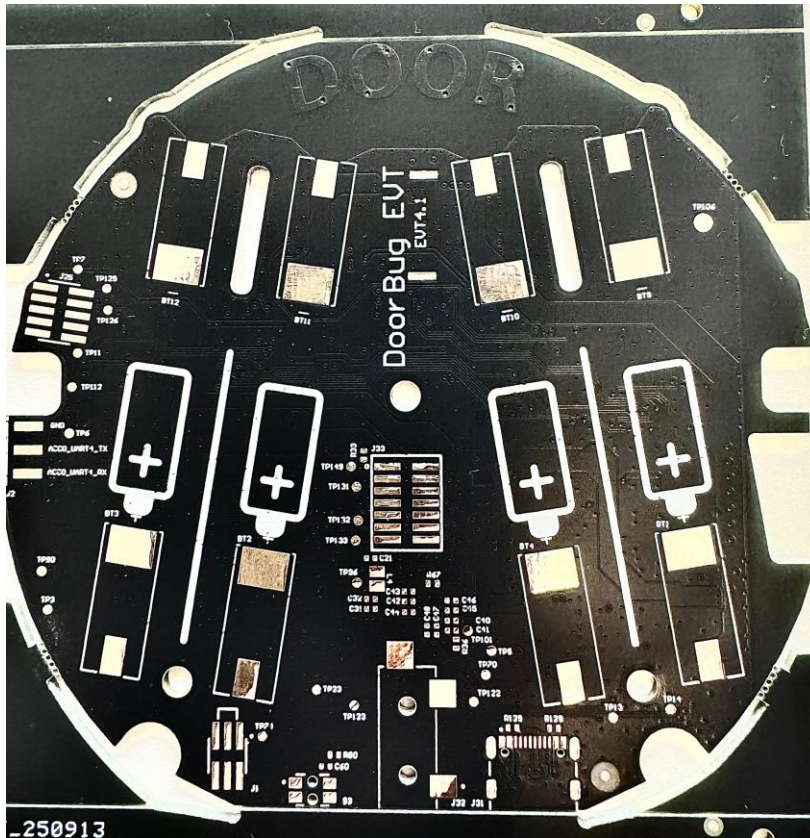
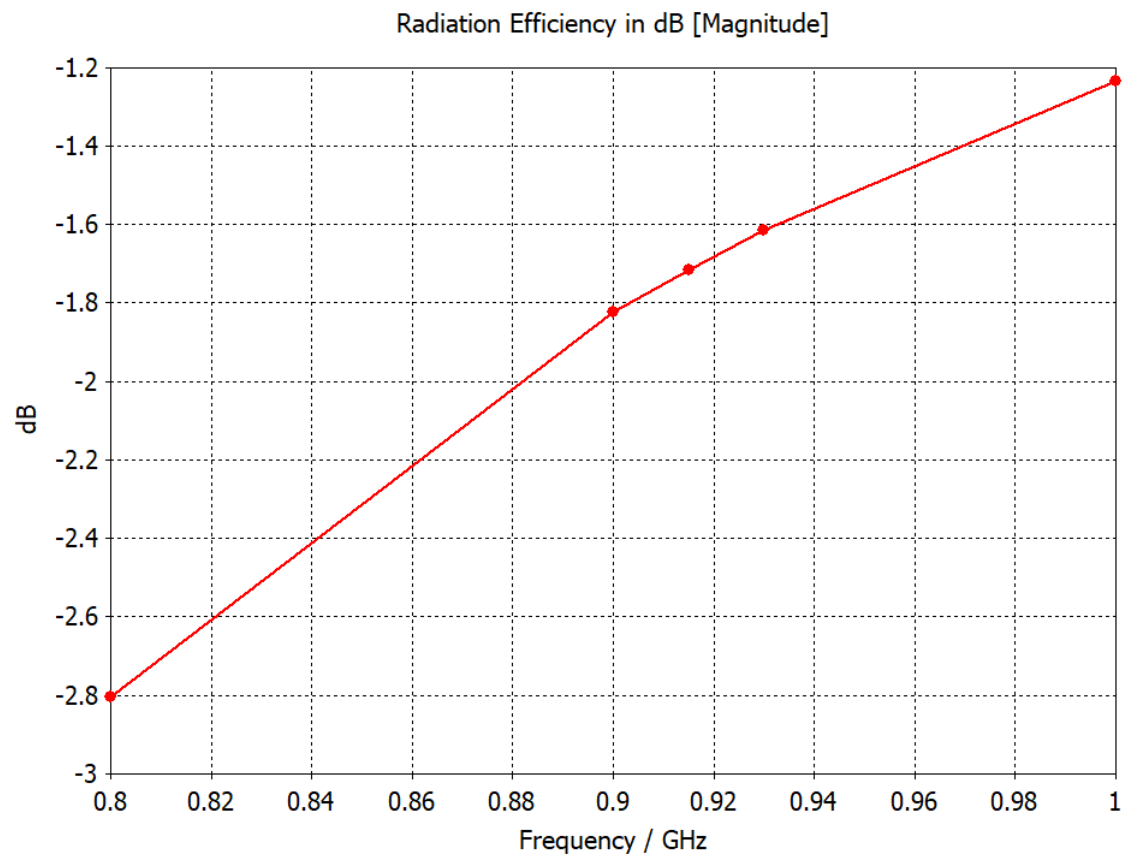


Door Scout LoRA PCB Antenna

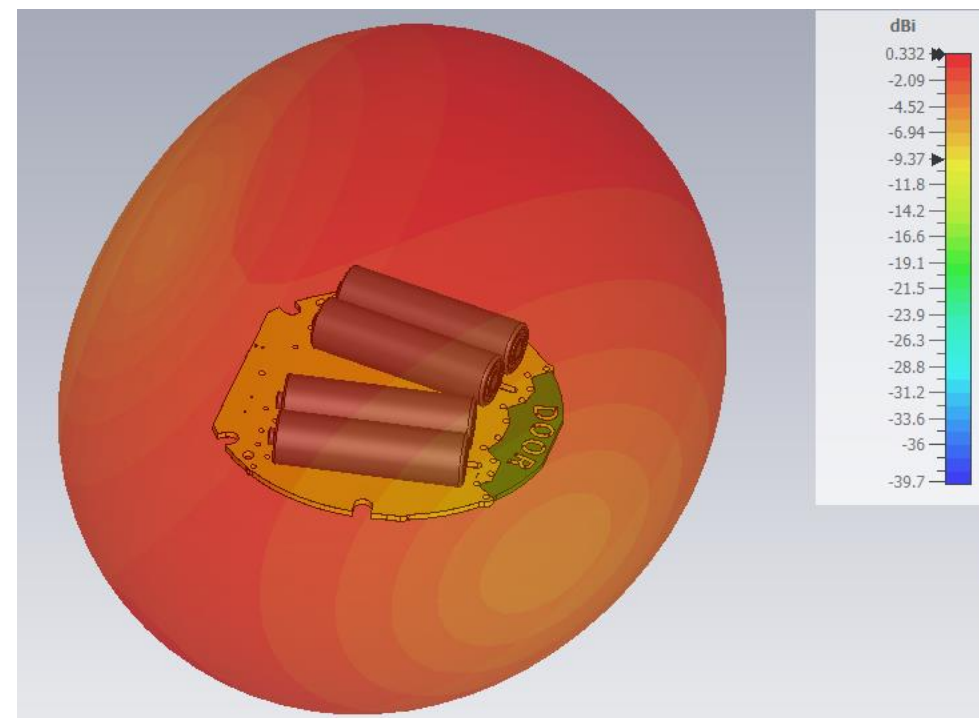


January 2026 TSR

Antenna Gain and efficiency , 3D. Simulated



Radiation Efficiency -1.7 dB at 910 MHz



Antenna gain @ 915MHz

Test result of power and field strength of fundamental wave

- Distance: 3m
- Polarisation: horizontal
- EUT Position: Position X

<i>Frequency (MHz)</i>	<i>Level QP (dBμV/m)</i>	<i>Limit QP (dBμV/m)</i>	<i>Margin QP (dB)</i>	<i>EIRP (dBm)</i>
910.300	91.7	94.0	2.3	-3.4

EIRP is calculated using the formula of clause 11.12.2.2 of ANSI C63.10:

$$EIRP = E + 20\log(d) - 104.7$$

Where: EIRP = equivalent isotropically radiated power in dBm
E = electric field strength in dBμV/m
d = measurement distance in meters (m)

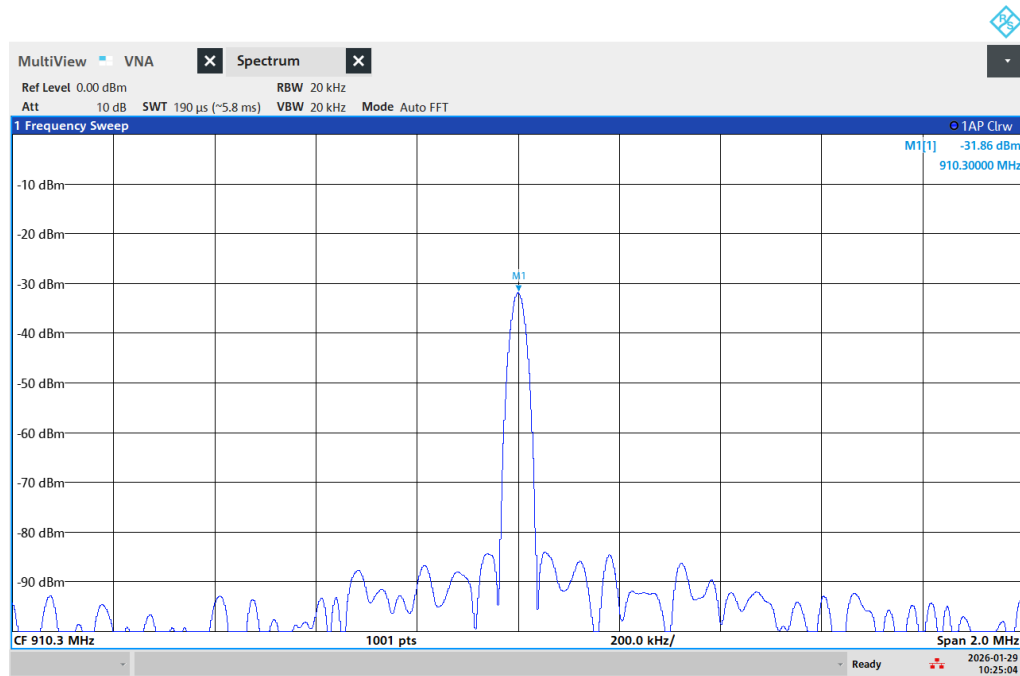
Antenna Gain Measured

Conducted Power = -0.9 dBm

EIRP = -3.4

Gain = -2.5 dBi

Receiver level



10:25:05 AM 01/29/2026

Cable and attenuator



10:29:53 AM 01/29/2026