



A BRAND OF RACING FORCE

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Manufacturer	Zeronoise
Product Name	ZN-1.9
Antenna Type	PCB antenna
Date	08/05/2024
Version	1

Racing Force S.p.a. Via della Canapiglia 15, 56019 Vecchiano, Pisa, Italy. T: +39 010 96 501 [zeronoisedevices.com](http://zeronoisedevices.com) - [racingforce.com](http://racingforce.com)

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### Antenna appearance

Frequency [MHz]	1921	1925	1929
Return Loss	-6.4	-6	-6
VSWR	2.8	3.0	3.0

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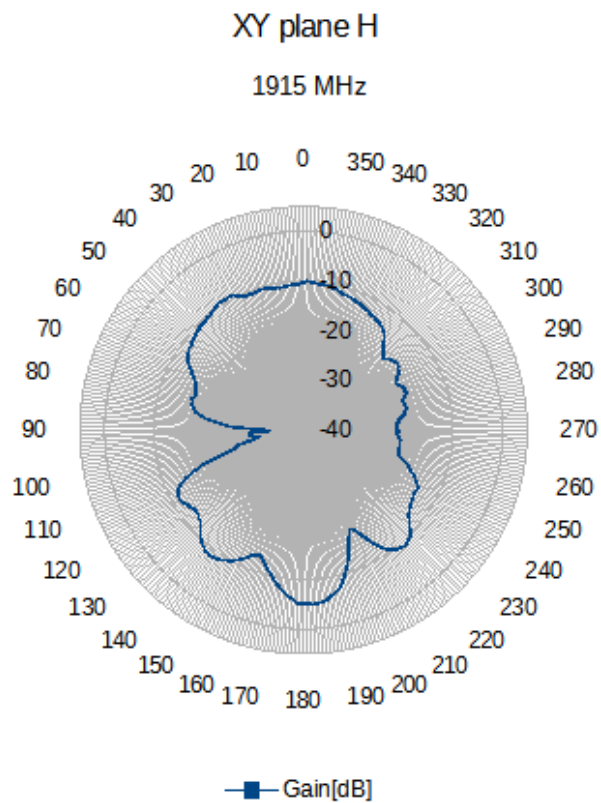
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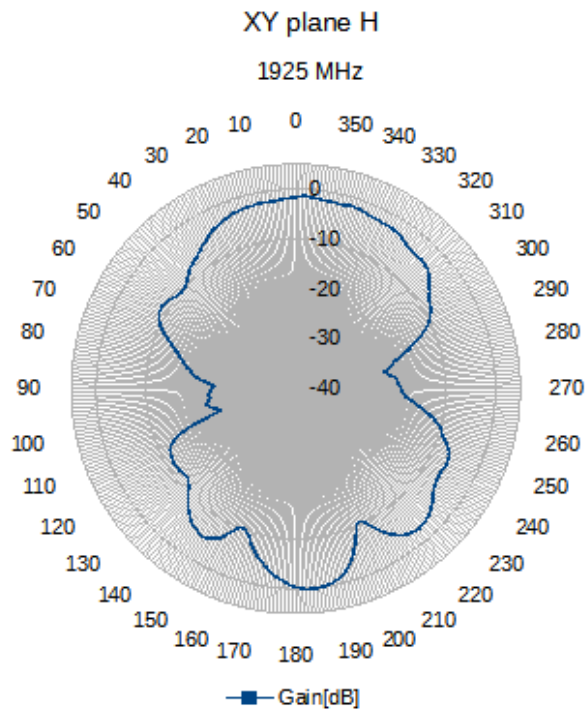


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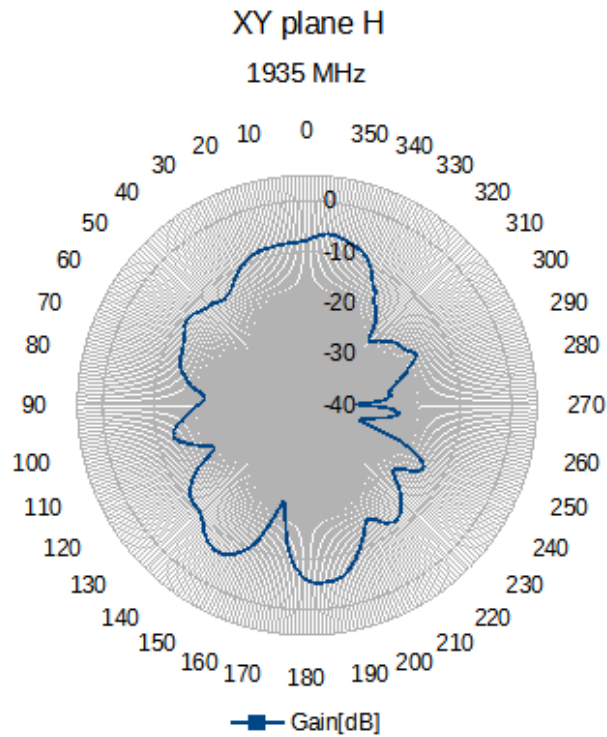
**Radiation patterns:**



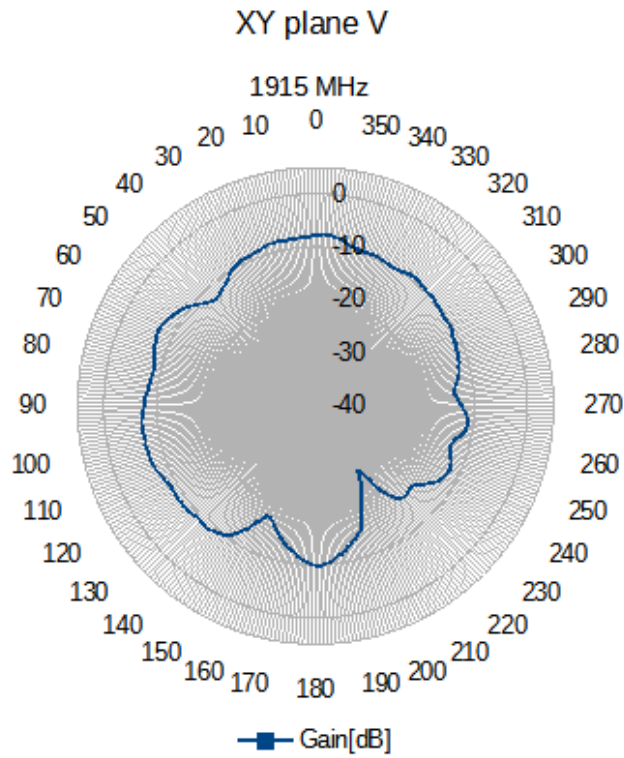
**Figure 1 - 1921 MHz - xy plane plot – Horizontal polarization**



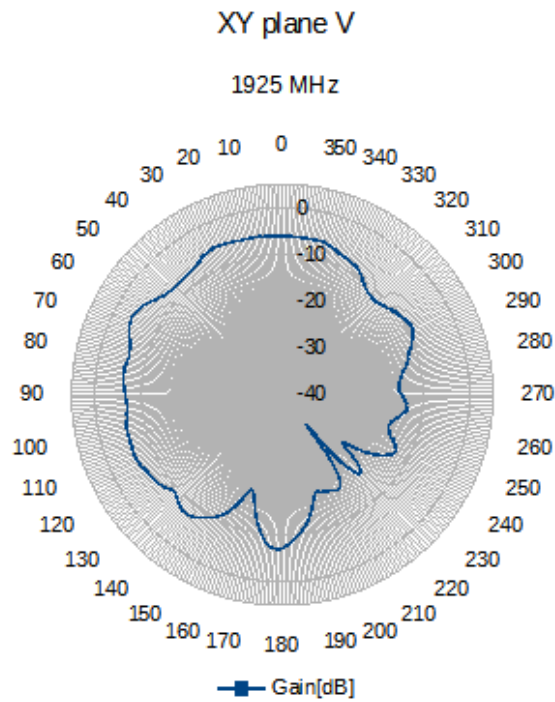
**Figure 2** - 1925 MHz - xy plane plot – Horizontal polarization



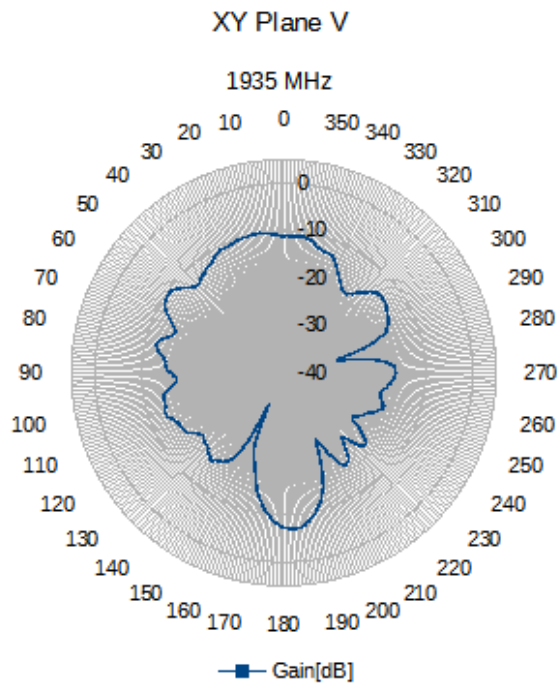
**Figure 3 - 1929 MHz - xy plane plot – Horizontal polarization**



**Figure 4 - 1921 MHz - xy plane plot – Vertical polarization**



**Figure 5 - 1925 MHz - xy plane plot – Vertical polarization**



**Figure 6 - 1929 MHz - xy plane plot – Vertical polarization**



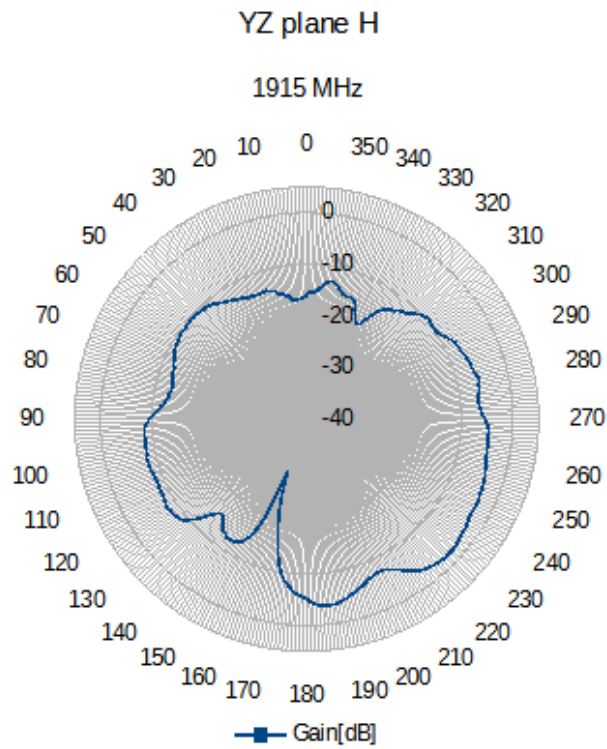


Figure 7 - 1921 MHz - yz plane plot – Horizontal polarization

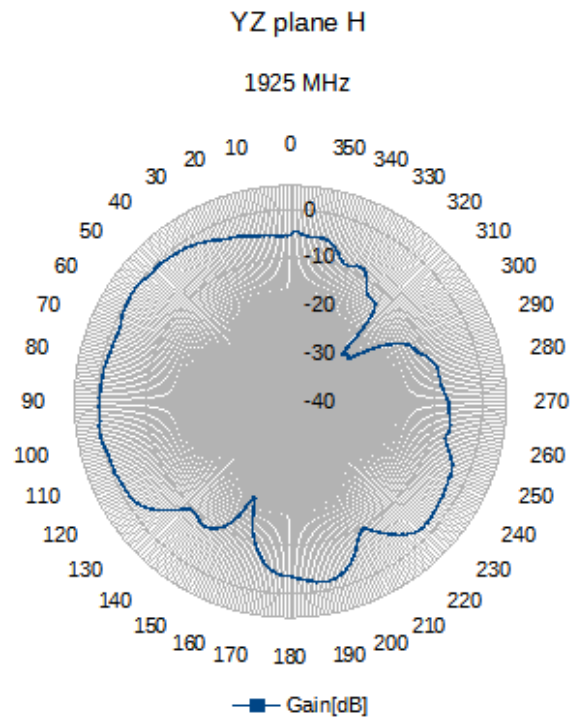


Figure 8 - 1925 MHz - yz plane plot – Horizontal polarization

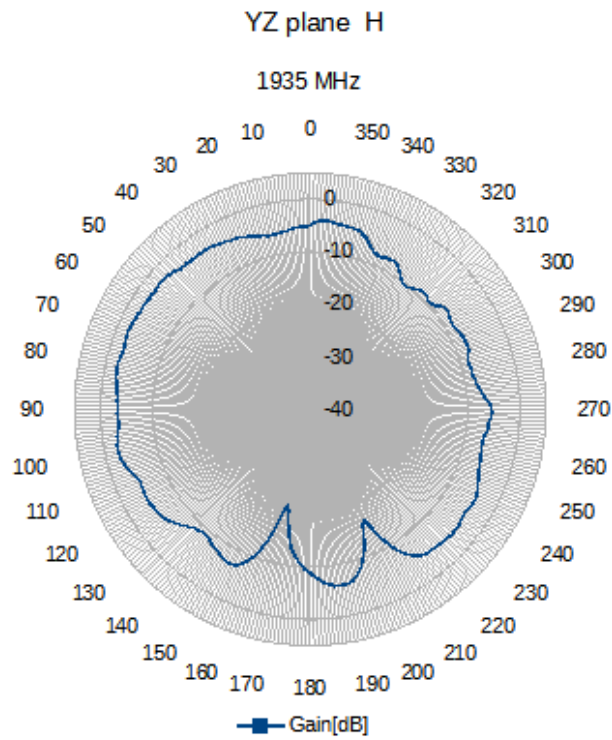


Figure 9 - 1929 MHz - yz plane plot – Horizontal polarization

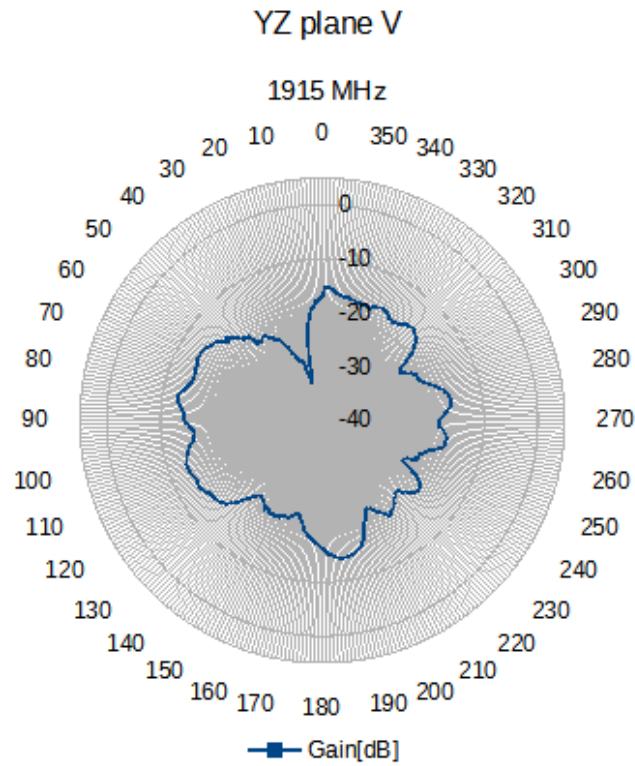


Figure 10 - 1921 MHz - yz plane plot – Vertical polarization

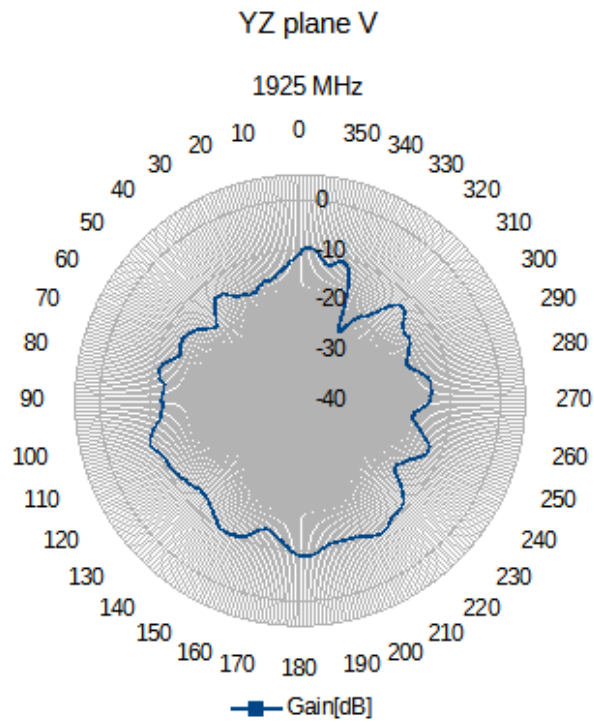


Figure 11 - 1925 MHz - yz plane plot – Vertical polarization

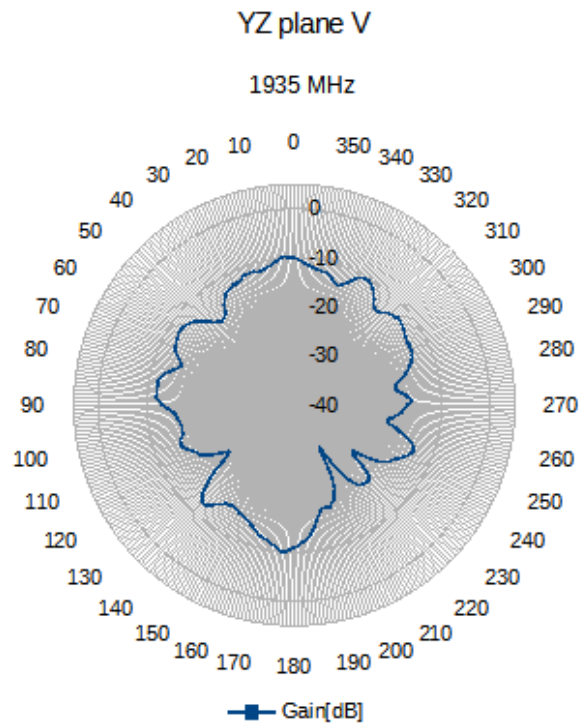
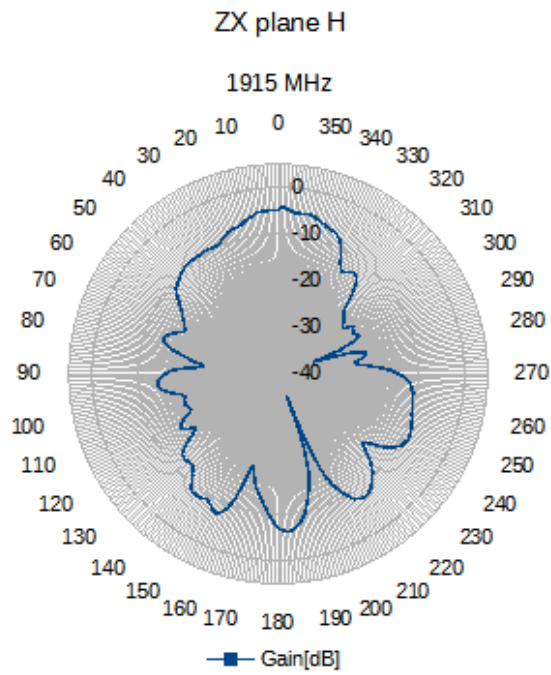
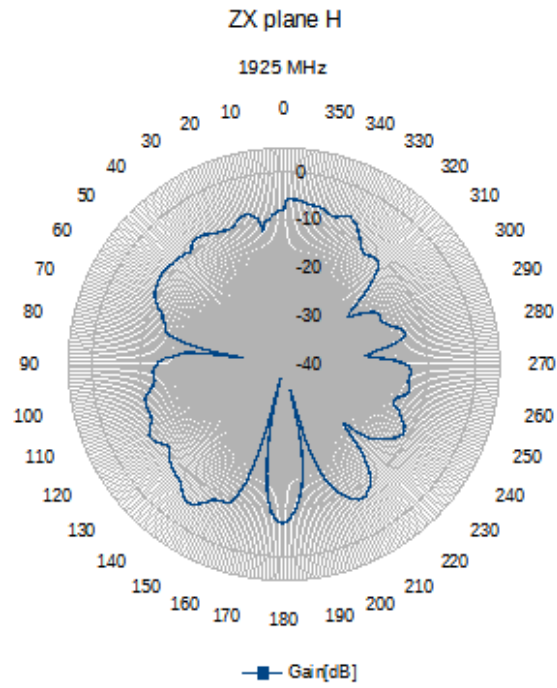


Figure 12 - 1929 MHz - yz plane plot – Vertical polarization

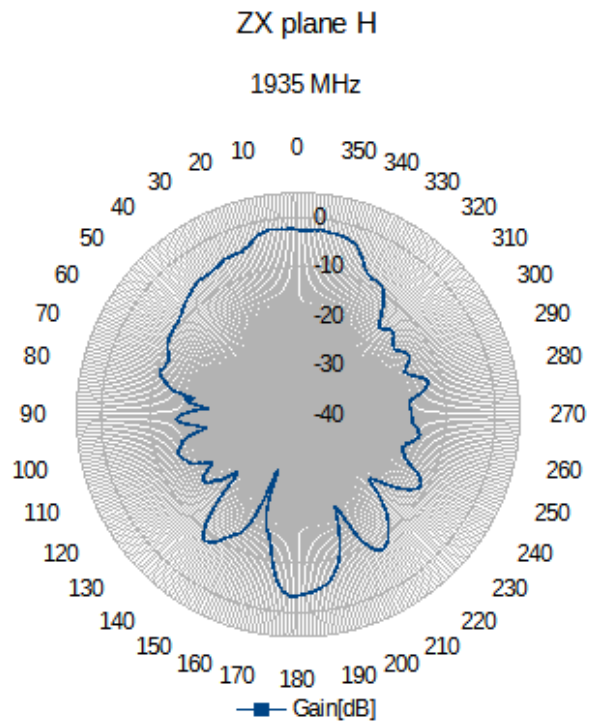


**Figure 13 - 1921 MHz - zx plane plot – Horizontal polarization**



**Figure 14 - 1925 MHz - zx plane plot – Horizontal polarization**





**Figure 15 - 1929 MHz - zx plane plot – Horizontal polarization**



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## Gain and efficiency

Test state	Frequency[MHz]	Gain[dB]	Efficiency[%]
Free space	1921	-4,4	33.42
	1925	-4,3	42.19
	1929	-3,5	49.04

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14\*2.3mm



### Antenna dimensions

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