

Name: APSAUS612V01**Description:****Type:** Space station, Transmitting

Space station antenna pattern submitted by AUS for SIRION-1 network. Gmax is 14 dB.

Required Input Parameters:

-

Validation Warnings/Errors: None**Pattern Information:**

Maximum antenna gain is fixed to 14 dB.

Co-Polar Component:

$$G = 14 - 10 (\varphi/19)^2 \quad \text{for } 0^\circ \leq \varphi \leq 22^\circ$$

$$G = 0 \quad \text{for } 22^\circ < \varphi < 80^\circ$$

$$G = 16 / 30^2 (\varphi - 110)^2 - 16 \quad \text{for } 80^\circ \leq \varphi < 110^\circ$$

$$G = -16 \quad \text{for } 110^\circ \leq \varphi \leq 180^\circ$$