

Contributors to Presentation



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mvg

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Influence of Probe Imperfections in SNF

Study applied to the measurement of base-station antenna

	Antenna for B1 1400 – 2700 MHz	Antenna for B2 2700 – 3300 MHz	Antenna for B3 3300 – 4200 MHz
Height	2.7 m	1.6 m	1.3 m
Columns	1	4	4
Offset (Z)	0 m	0.55 m	0.7 m
Min. Sphere (R _{min})	1.35	1.35	1.35
Directivity	19-22 dBi	26-27 dBi	26-28 dBi
Polarization	Slant 45°	Slant 45°	Slant 45°
Steering (Elev)	0° & -14°	0° & -14°	0° & -14°
HPBW (Elev)	3.9-2.0°	3.5-2.8°	3.4-2.6°
HPBW (Azim)	106°	24-20°	24-19°
1° SLL (Elev)	13.2 dB (6.3-3.3°)	13.2 dB (5.7-4.7°)	13.2 dB (5.5-4.3°)
1° Null (Elev)	35-60 dB (4.4-2.3°)	35-60 dB (4.0-3.2°)	38-55 dB (3.9-3.0°)
On-axis XPD	20 dB	20 dB	20 dB



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Influence of Probe Imperfections in SNF

Antenna for B3 3300 – 4200 MHz Probe SP1400 SP1400 SP1400 Measurement 2.09 m 2.09 m 2.09 m Radius (R) AUT minimum 1.35 m 1.35 m 1.35 m sphere (R_{min}) Sampling (∆୬) 1.5° 1.5° 1.0° Sampling ($\Delta \phi$) 5° 5° 5° Max AUT-Probe 32° 32° 32° View Angle (α)

Emulated measurement scenario



























