

SPECIFICATION

Frequency	617-960 MHz	1166-1610 MHz	1710-2200 MHz	2300-2690 MHz	3300-5000 MHz	5150-5925 MHz
Peak gain	-0.21 dBi	1.44 dBi	1.16 dBi	2.63 dBi	-0.21 dBi	-0.44 dBi
Average gain	-5.03 dBi	-4.93 dBi	-4.75 dBi	-4.92 dBi	-7.04 dBi	-8.15 dBi
Efficiency	32.28 %	33.71 %	35.53 %	32.22 %	20.04 %	15.72 %
VSWR	3.5 : 1 Max	3.5 : 1 Max	2.5 : 1 Max	2.5 : 1 Max	2.5 : 1 Max	2.0 : 1 Max
Connector	FAKRA C (Blue)					

Frequency	617-960 MHz	1166-1610 MHz	1710-2200 MHz	2300-2690 MHz	3300-5000 MHz	5150-5925 MHz
Peak gain	0.1 dBi	1.25 dBi	0.75 dBi	3.36 dBi	-0.61 dBi	-0.61 dBi
Average gain	-4.91 dBi	-5.09 dBi	-5.17 dBi	-4.89 dBi	-7.66 dBi	-8.43 dBi
Efficiency	33.36 %	32.88 %	30.45 %	32.43 %	17.34 %	14.79 %
VSWR	3.5 : 1 Max	3.5 : 1 Max	2.5 : 1 Max	2.5 : 1 Max	2.5 : 1 Max	2.0 : 1 Max
Connector	FAKRA D (Bordeaux)					

Frequency	617-960 MHz	1166-1610 MHz	1710-2200 MHz	2300-2690 MHz	3300-5000 MHz	5150-5925 MHz
Peak gain	1.02 dBi	0.64 dBi	1.36 dBi	3.29 dBi	-0.15 dBi	-0.59 dBi
Average gain	-4.85 dBi	-5.29 dBi	-5.16 dBi	-4.76 dBi	-7.57 dBi	-8.49 dBi
Efficiency	33.61 %	31.19 %	30.54 %	33.44 %	17.75 %	14.61 %
VSWR	3.5 : 1 Max	3.5 : 1 Max	2.5 : 1 Max	2.5 : 1 Max	2.5 : 1 Max	2.0 : 1 Max
Connector	FAKRA D (Bordeaux)					

Frequency	617-960 MHz	1166-1610 MHz	1710-2200 MHz	2300-2690 MHz	3300-5000 MHz	5150-5925 MHz
Peak gain	-0.47 dBi	1.1 dBi	0.76 dBi	2.98 dBi	-0.05 dBi	-0.29 dBi
Average gain	-5.16 dBi	-4.8 dBi	-4.85 dBi	-4.94 dBi	-7.11 dBi	-7.88 dBi
Efficiency	31.53 %	35.41 %	32.79 %	32.1 %	19.71 %	16.66 %
VSWR	3.5 : 1 Max	3.5 : 1 Max	2.5 : 1 Max	2.5 : 1 Max	2.5 : 1 Max	2.0 : 1 Max
Connector	FAKRA D (Bordeaux)					

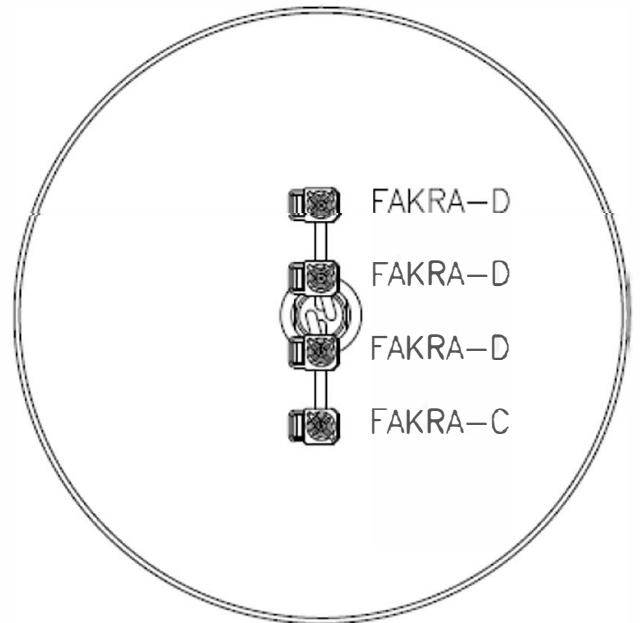
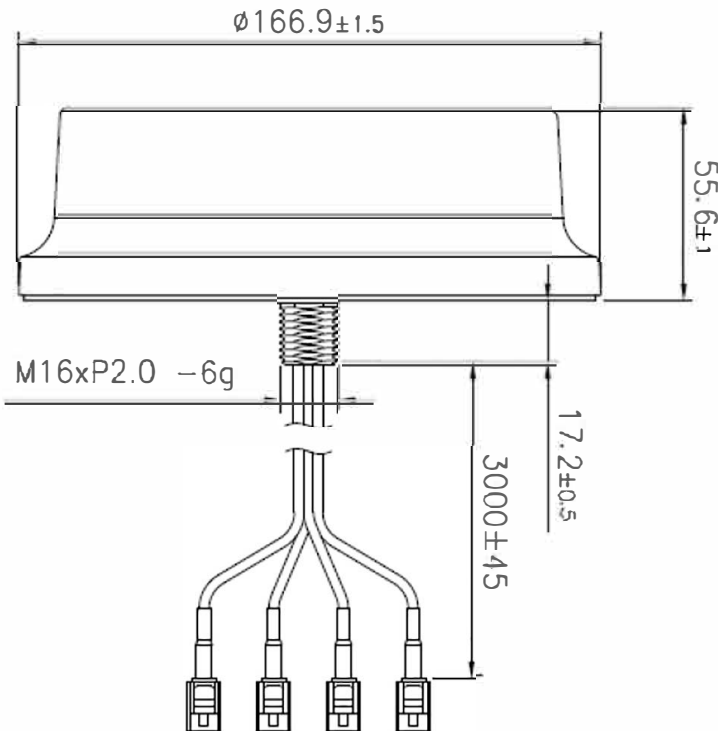
Cable / Length	ULA100 / L=3M x 4
Impedance	50 Ω
IP rating	IP68

Environment & Mechanical Characteristics

Temperature	- 40°C to +85°C
Humidity	95% @ 25°C

Model No: 5GRFA-F
5G Outdoor Antenna

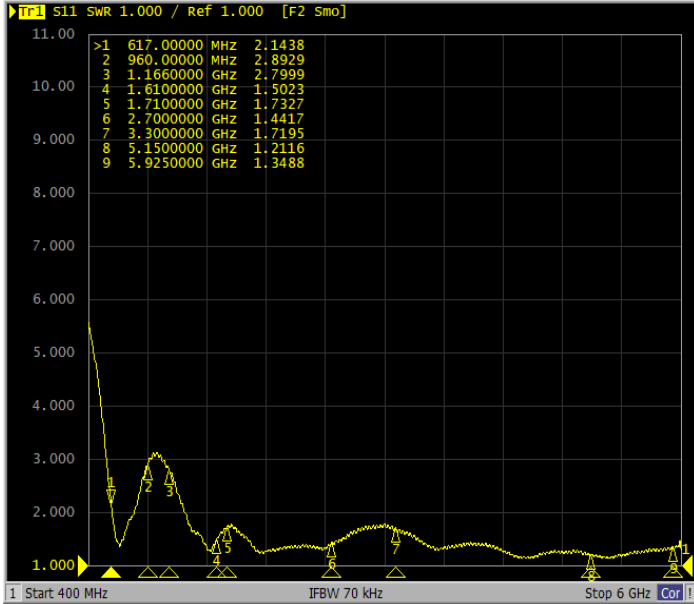
SPECIFICATION



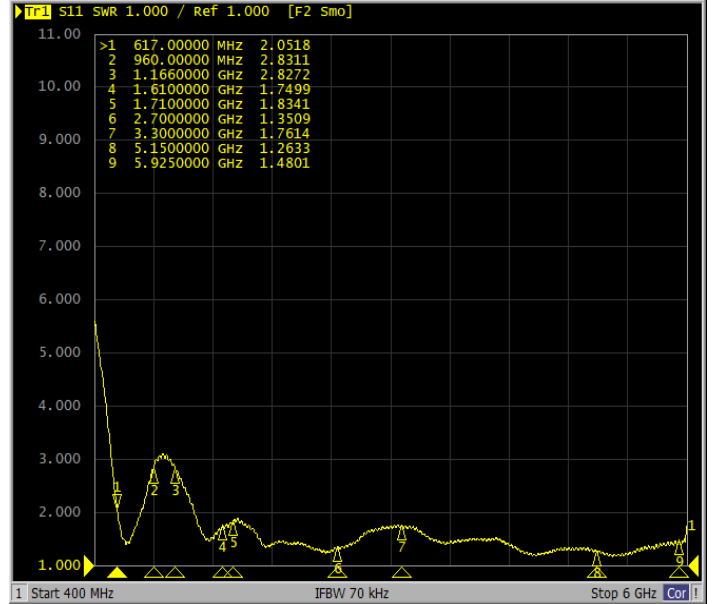
SPECIFICATION

VSWR

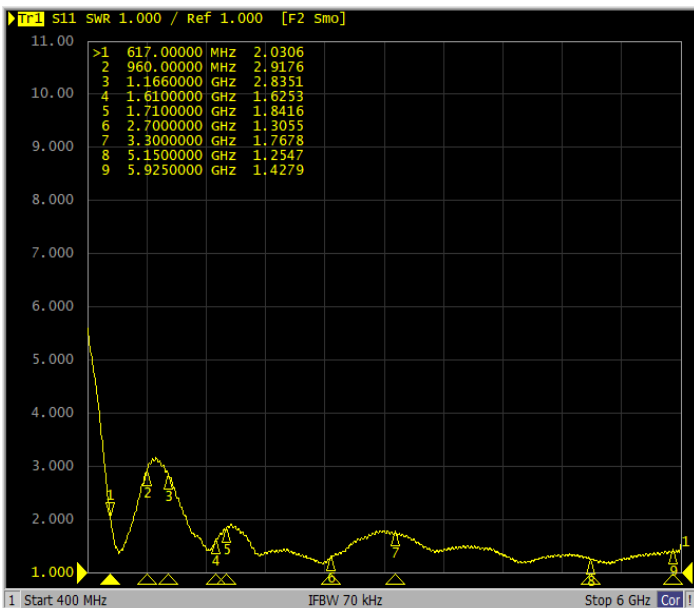
FAKRA C (Blue)



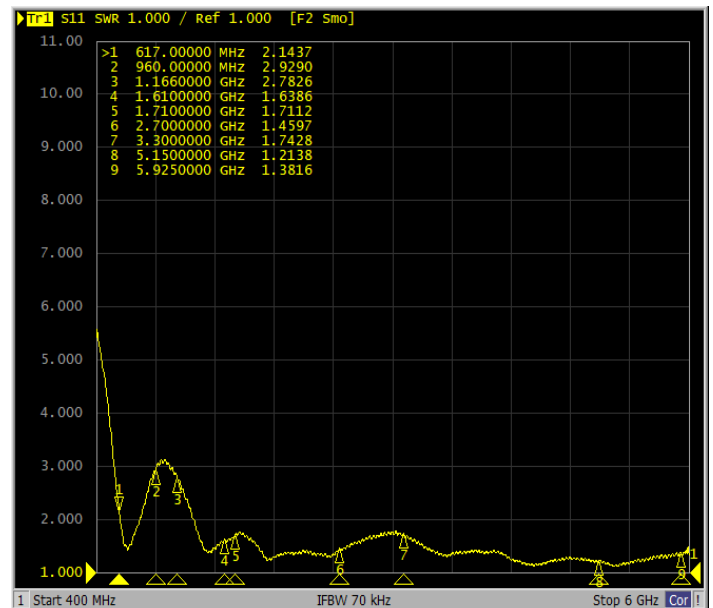
FAKRA D (Bordeaux)



FAKRA D (Bordeaux)



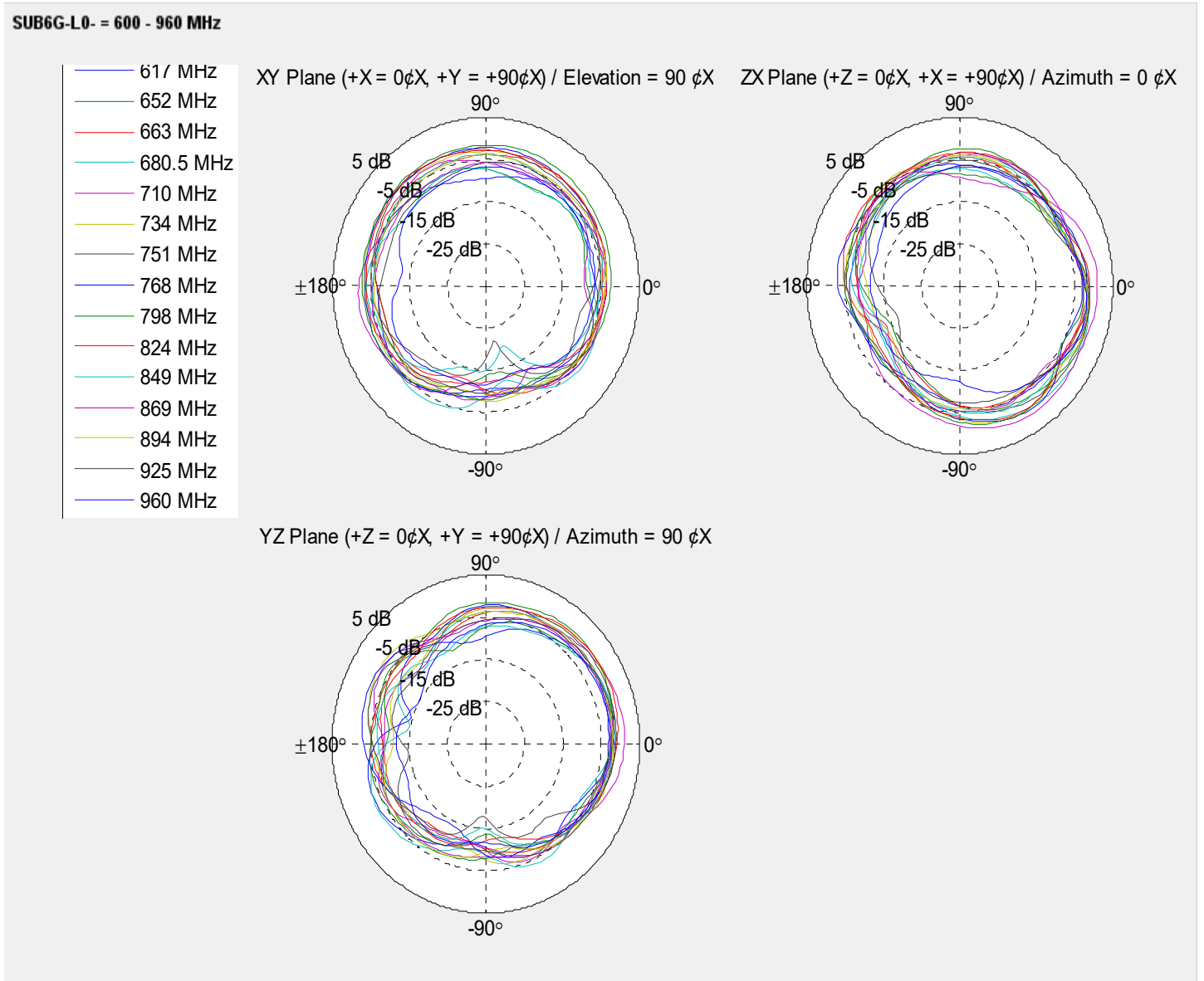
FAKRA D (Bordeaux)



SPECIFICATION

FAKRA C (Blue)

Radiation Pattern



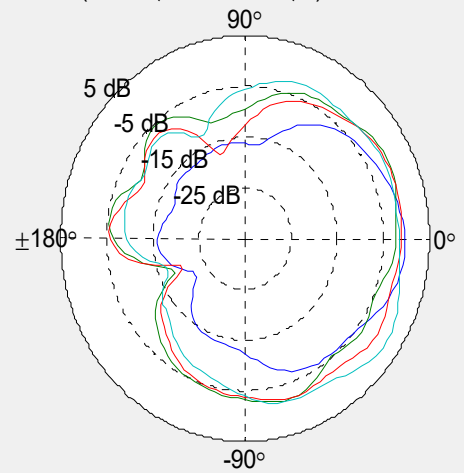
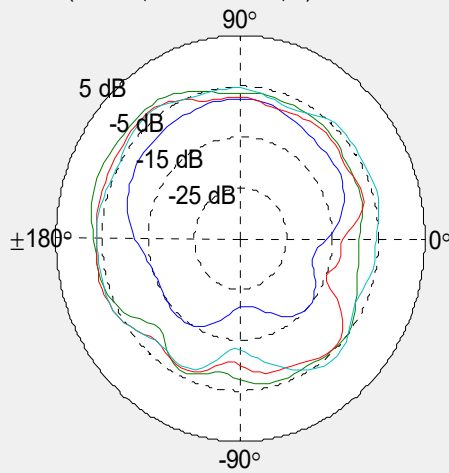
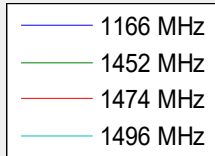
SPECIFICATION

Radiation Pattern

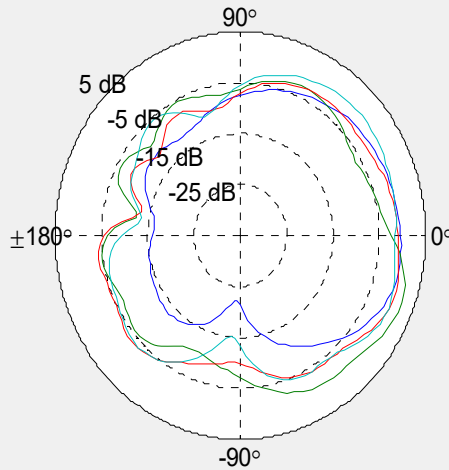
SUB6G-GPS = 1000 - 1680 MHz

XY Plane (+X = 0°ϕX, +Y = +90°ϕX) / Elevation = 90°ϕX

ZX Plane (+Z = 0°ϕX, +X = +90°ϕX) / Azimuth = 0°ϕX



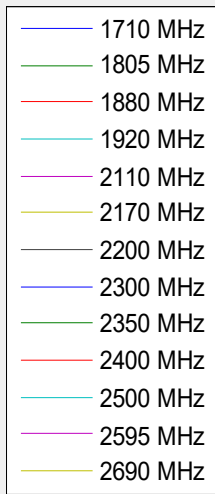
YZ Plane (+Z = 0°ϕX, +Y = +90°ϕX) / Azimuth = 90°ϕX



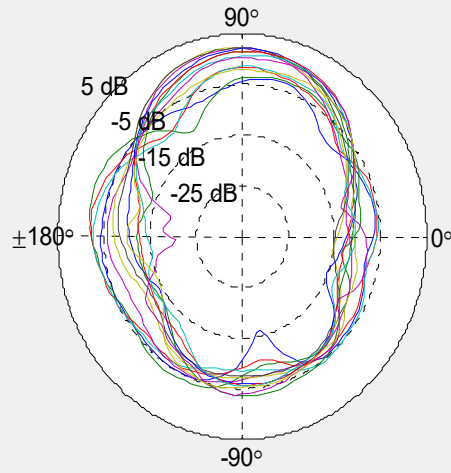
SPECIFICATION

Radiation Pattern

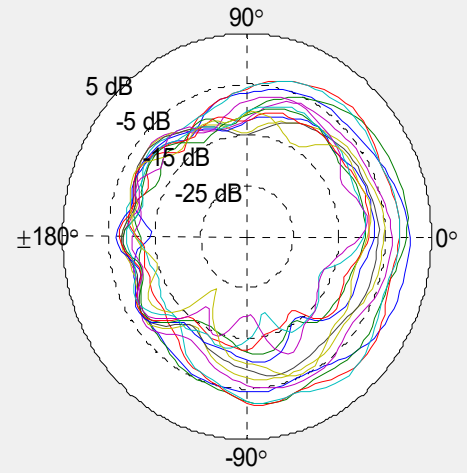
SUB6G-H3 = 1690 - 2690 MHz



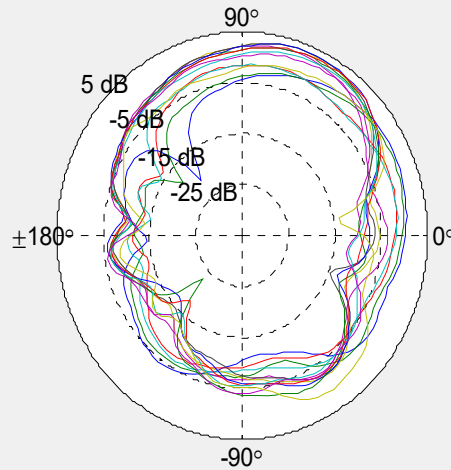
XY Plane (+X = 0°ϕX, +Y = +90°ϕX) / Elevation = 90°ϕX



ZX Plane (+Z = 0°ϕX, +X = +90°ϕX) / Azimuth = 0°ϕX



YZ Plane (+Z = 0°ϕX, +Y = +90°ϕX) / Azimuth = 90°ϕX



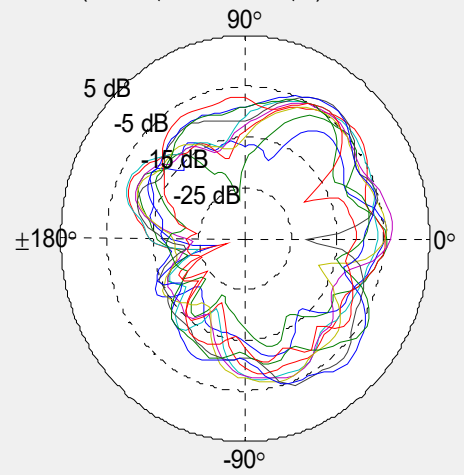
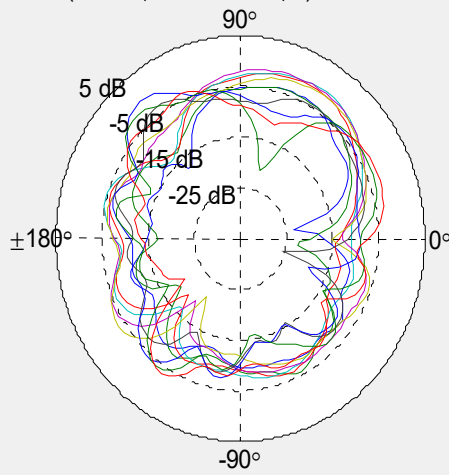
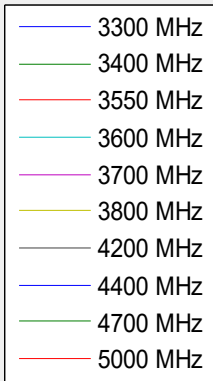
SPECIFICATION

Radiation Pattern

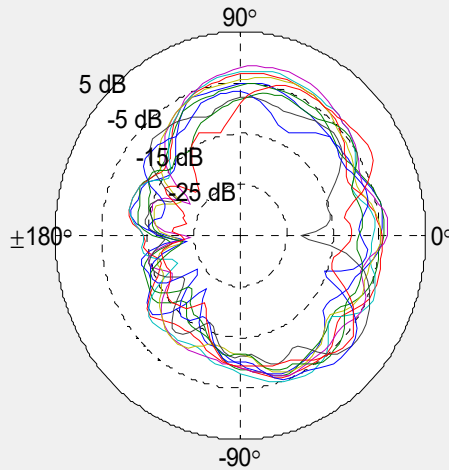
SUB6G-SHF-3 = 2900 - 5000 MHz

XY Plane (+X = 0°ϕX, +Y = +90°ϕX) / Elevation = 90°ϕX

ZX Plane (+Z = 0°ϕX, +X = +90°ϕX) / Azimuth = 0°ϕX



YZ Plane (+Z = 0°ϕX, +Y = +90°ϕX) / Azimuth = 90°ϕX



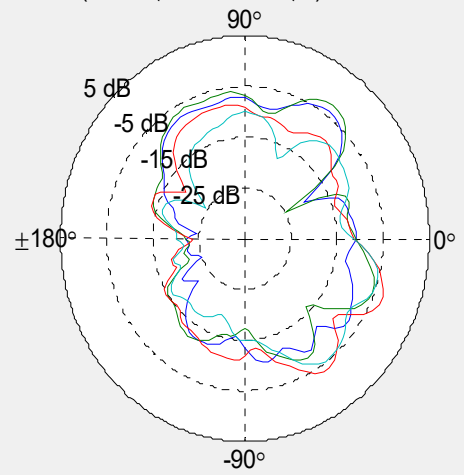
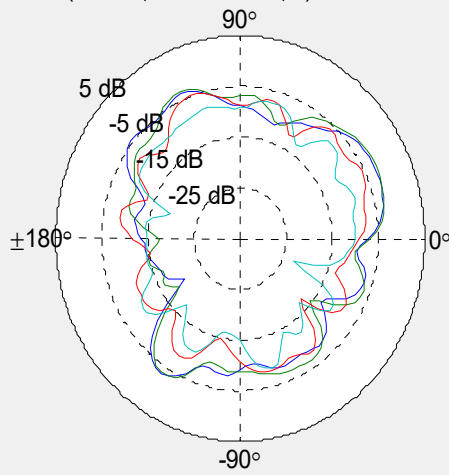
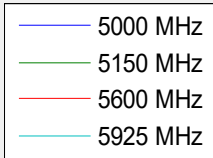
SPECIFICATION

Radiation Pattern

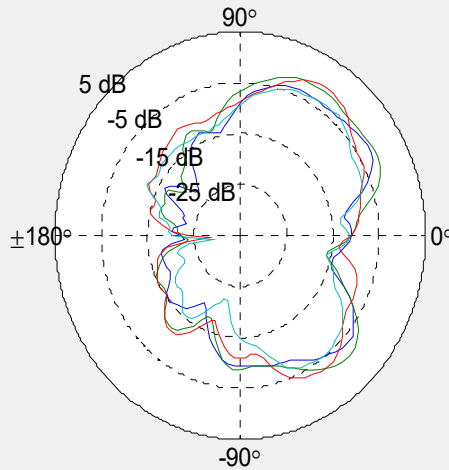
5G Band = 4900 - 5975 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



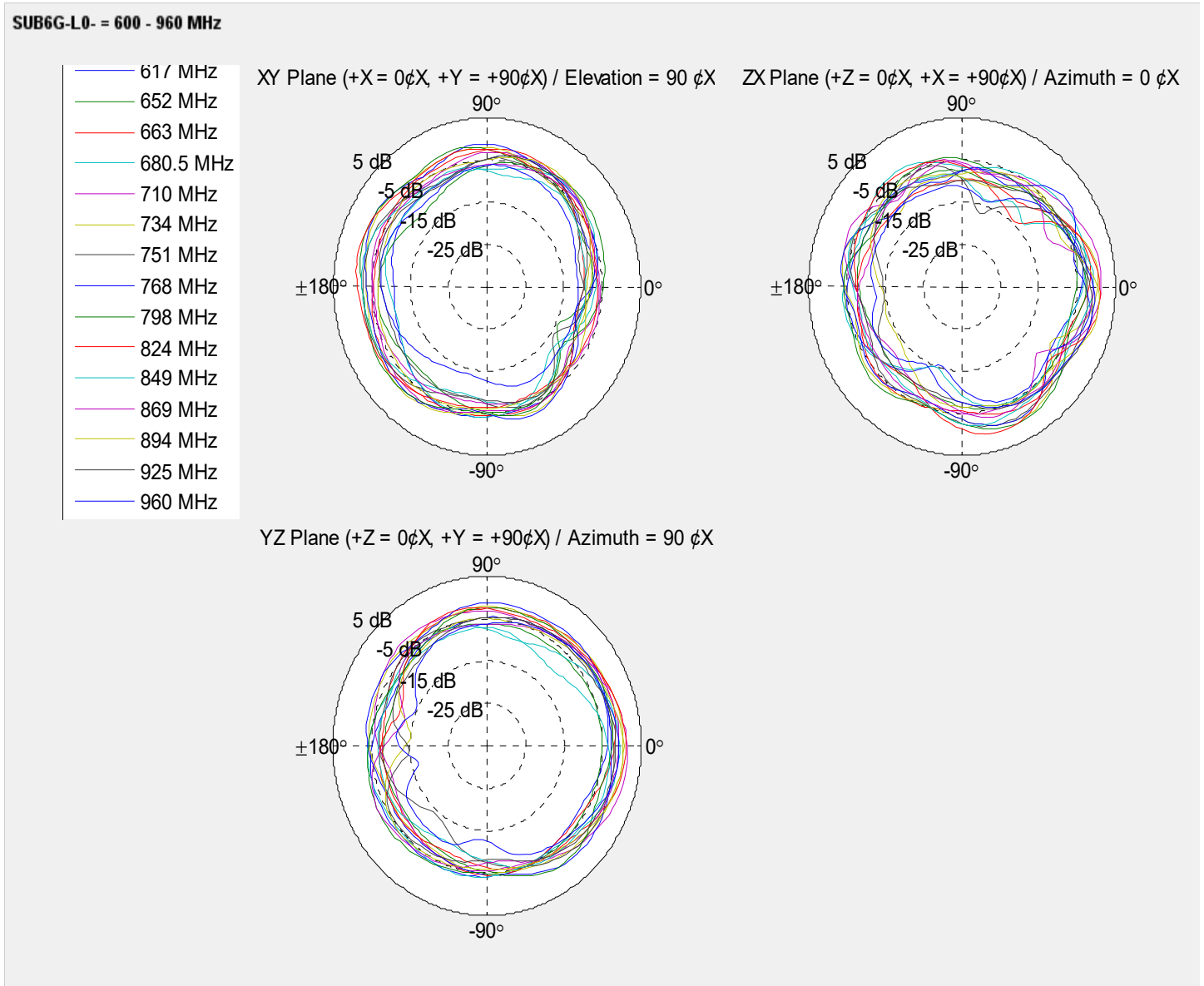
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



SPECIFICATION

FAKRA D (Bordeaux)

Radiation Pattern



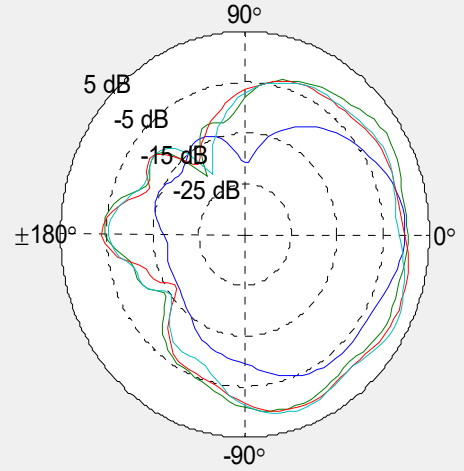
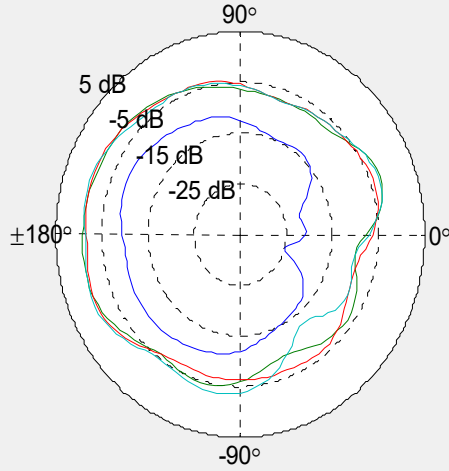
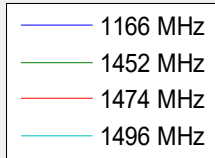
SPECIFICATION

Radiation Pattern

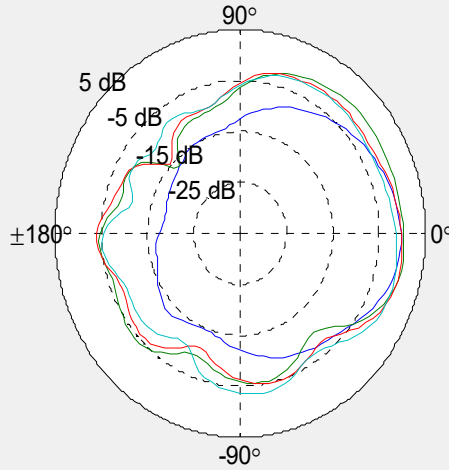
SUB6G-GPS = 1000 - 1680 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



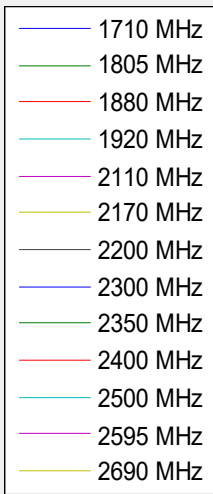
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



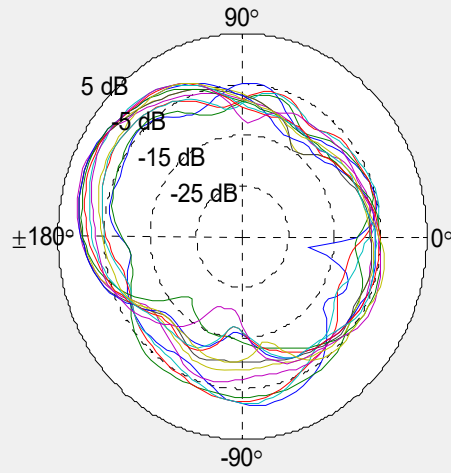
SPECIFICATION

Radiation Pattern

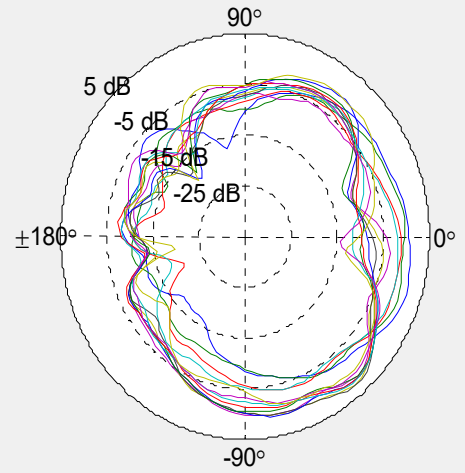
SUB6G-H3 = 1690 - 2690 MHz



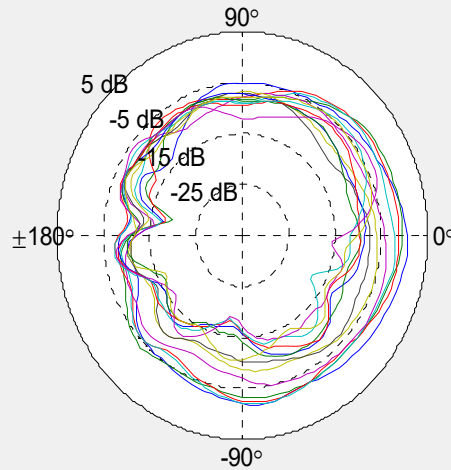
XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X



ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



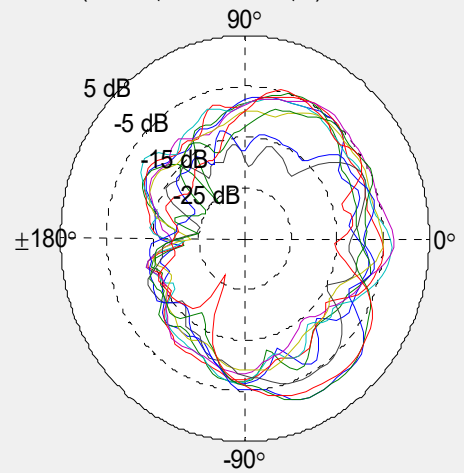
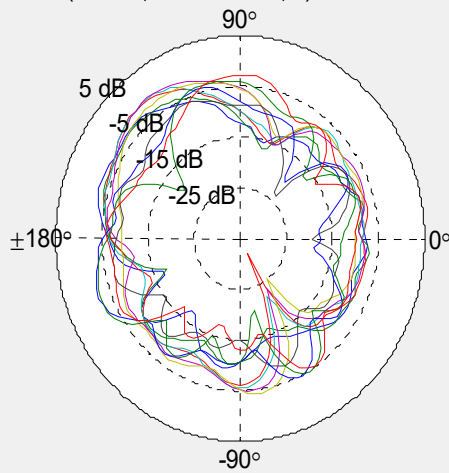
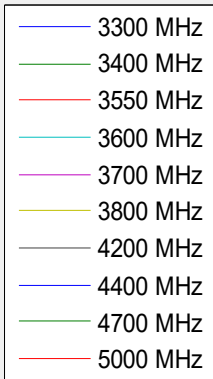
SPECIFICATION

Radiation Pattern

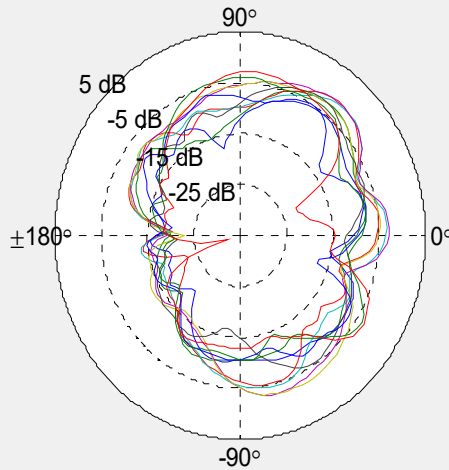
SUB6G-SHF-3 = 2900 - 5000 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



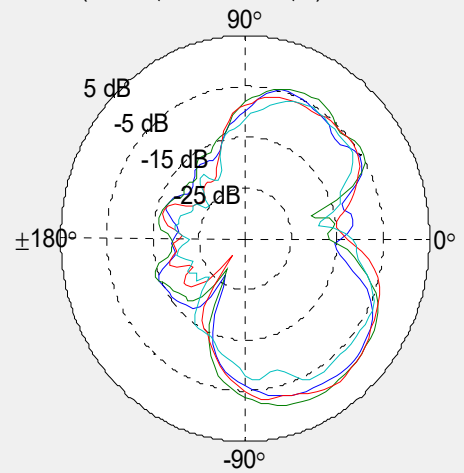
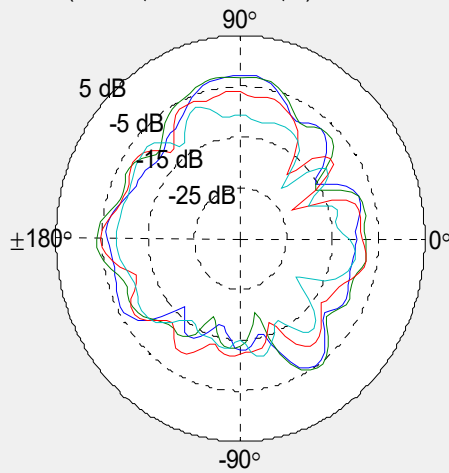
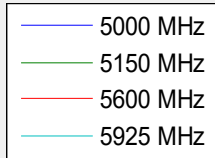
SPECIFICATION

Radiation Pattern

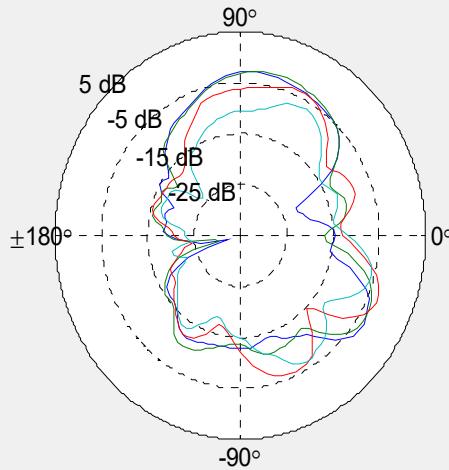
5G Band = 4900 - 5975 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



SPECIFICATION

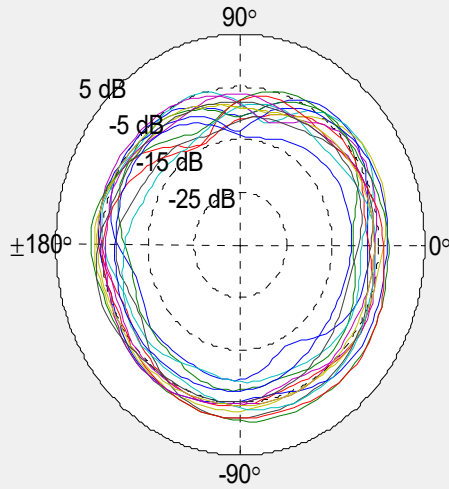
Radiation Pattern

FAKRA D (Bordeaux)

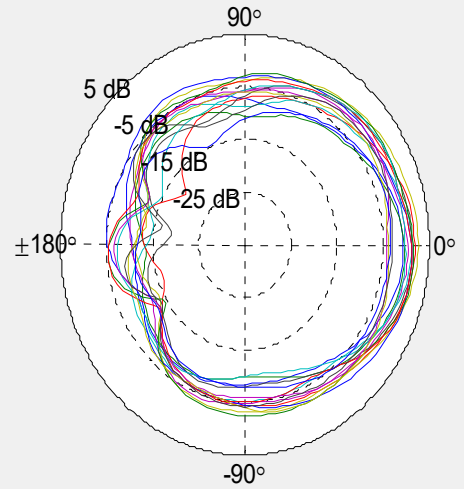
SUB6G-L0- = 600 - 960 MHz

- 617 MHz
- 652 MHz
- 663 MHz
- 680.5 MHz
- 710 MHz
- 734 MHz
- 751 MHz
- 768 MHz
- 798 MHz
- 824 MHz
- 849 MHz
- 869 MHz
- 894 MHz
- 925 MHz
- 960 MHz

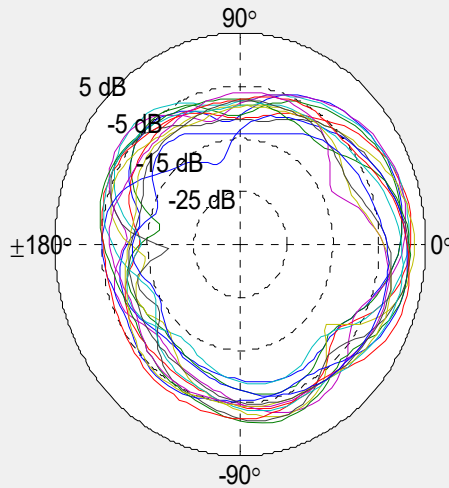
XY Plane (+X = 0°ϕX, +Y = +90°ϕX) / Elevation = 90°ϕX



ZX Plane (+Z = 0°ϕX, +X = +90°ϕX) / Azimuth = 0°ϕX



YZ Plane (+Z = 0°ϕX, +Y = +90°ϕX) / Azimuth = 90°ϕX



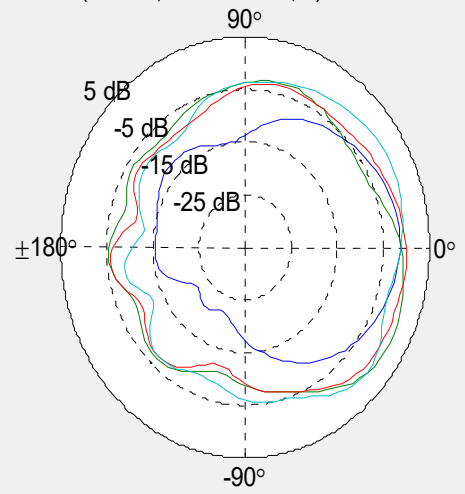
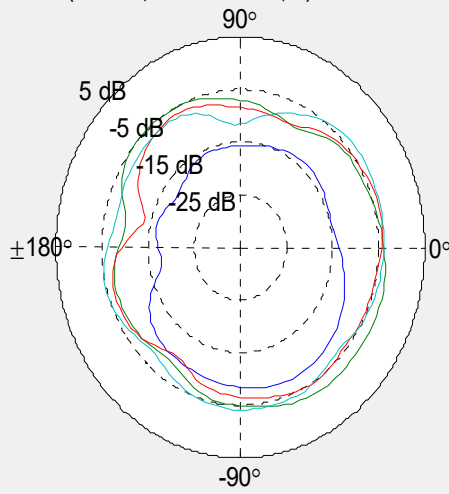
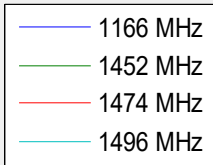
SPECIFICATION

Radiation Pattern

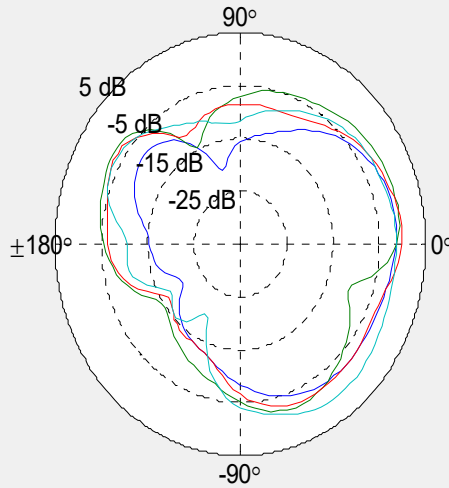
SUB6G-GPS = 1000 - 1680 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



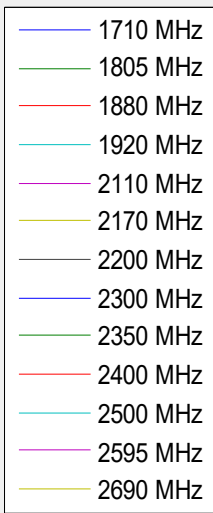
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



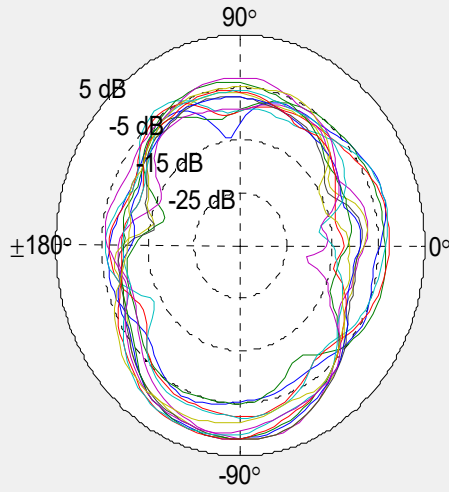
SPECIFICATION

Radiation Pattern

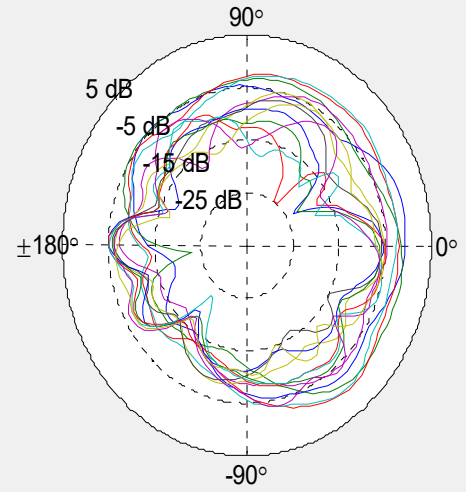
SUB6G-H3 = 1690 - 2690 MHz



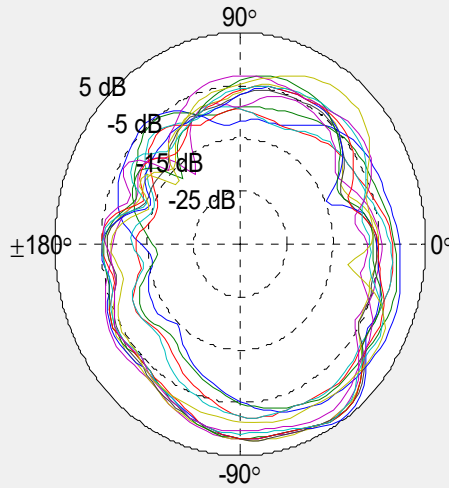
XY Plane (+X = 0φX, +Y = +90φX) / Elevation = 90 φX



ZX Plane (+Z = 0φX, +X = +90φX) / Azimuth = 0 φX



YZ Plane (+Z = 0φX, +Y = +90φX) / Azimuth = 90 φX



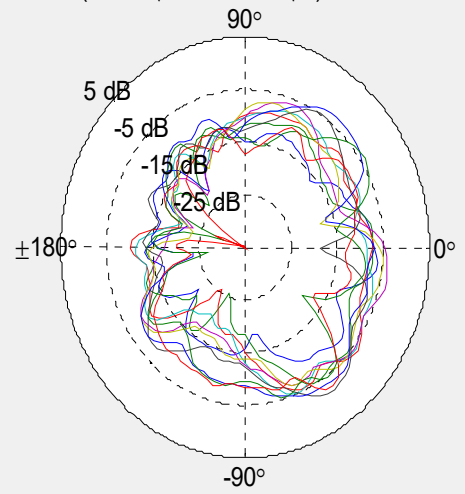
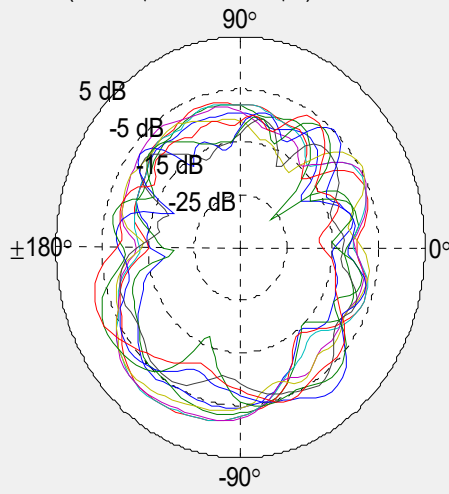
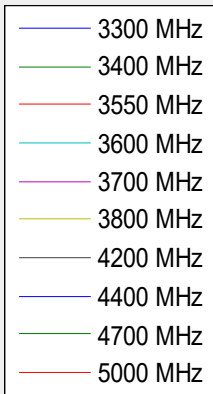
SPECIFICATION

Radiation Pattern

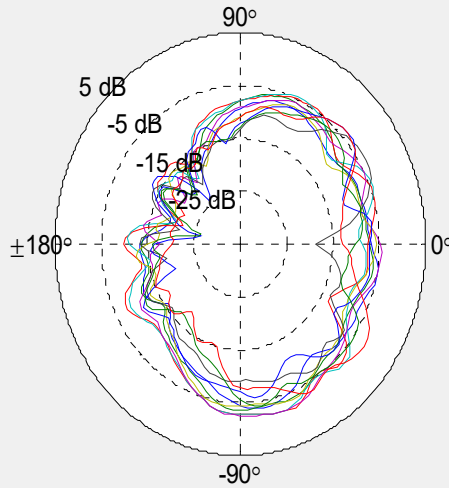
SUB6G-SHF-3 = 2900 - 5000 MHz

XY Plane (+X = 0°ϕX, +Y = +90°ϕX) / Elevation = 90°ϕX

ZX Plane (+Z = 0°ϕX, +X = +90°ϕX) / Azimuth = 0°ϕX



YZ Plane (+Z = 0°ϕX, +Y = +90°ϕX) / Azimuth = 90°ϕX



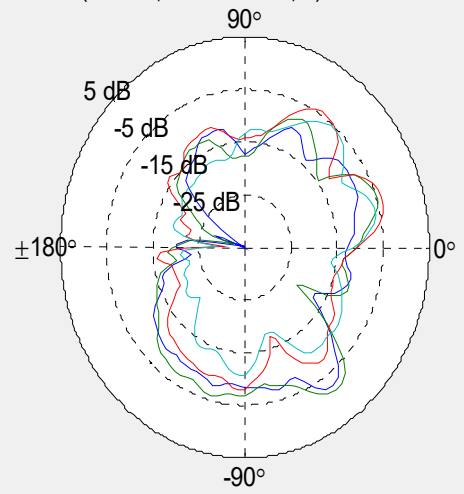
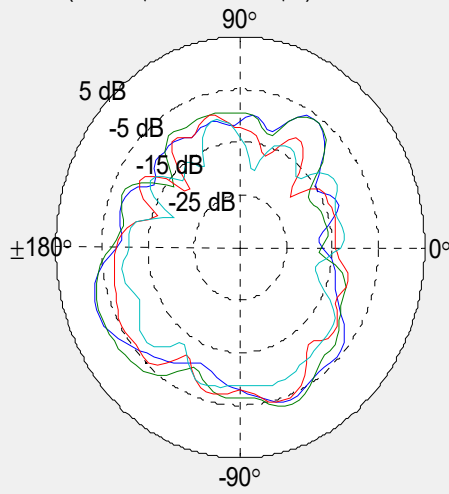
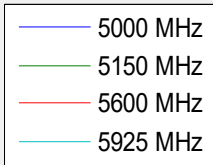
SPECIFICATION

Radiation Pattern

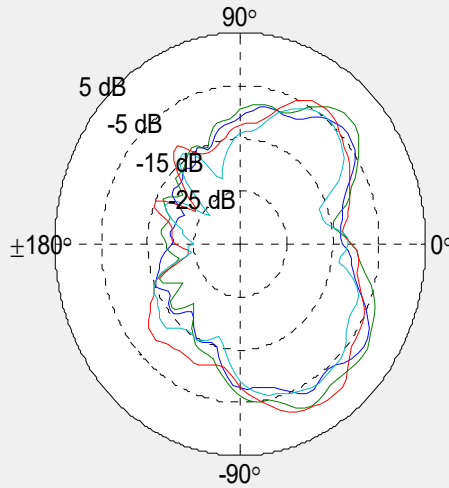
5G Band = 4900 - 5975 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



SPECIFICATION

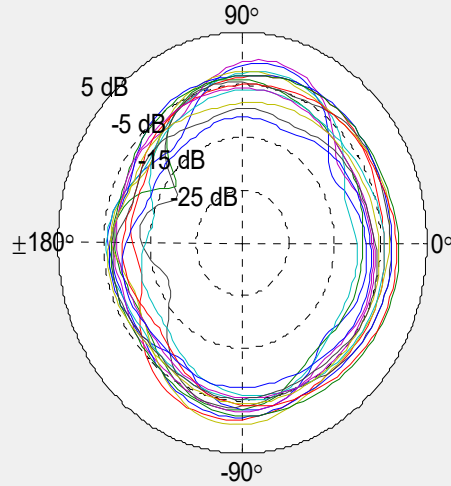
Radiation Pattern

FAKRA D (Bordeaux)

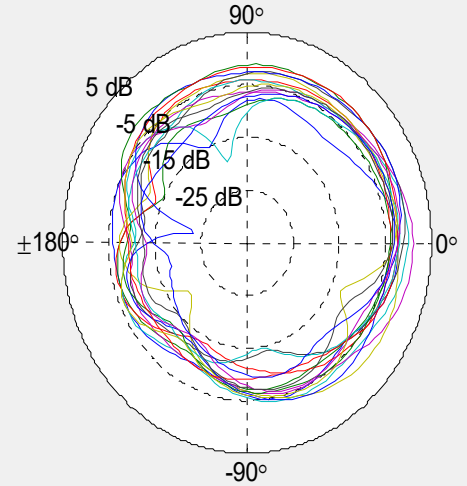
SUB6G-L0- = 600 - 960 MHz

- 617 MHz
- 652 MHz
- 663 MHz
- 680.5 MHz
- 710 MHz
- 734 MHz
- 751 MHz
- 768 MHz
- 798 MHz
- 824 MHz
- 849 MHz
- 869 MHz
- 894 MHz
- 925 MHz
- 960 MHz

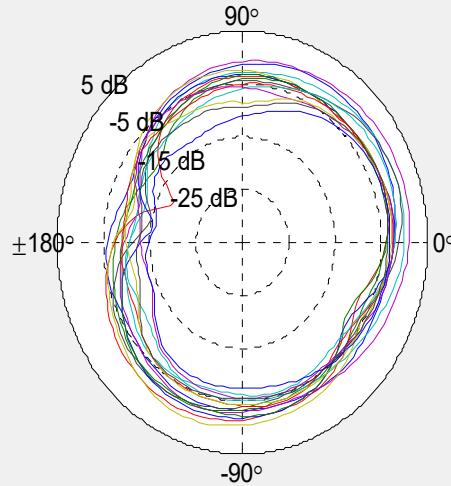
XY Plane (+X = 0°ϕX, +Y = +90°ϕX) / Elevation = 90°ϕX



ZX Plane (+Z = 0°ϕX, +X = +90°ϕX) / Azimuth = 0°ϕX



YZ Plane (+Z = 0°ϕX, +Y = +90°ϕX) / Azimuth = 90°ϕX



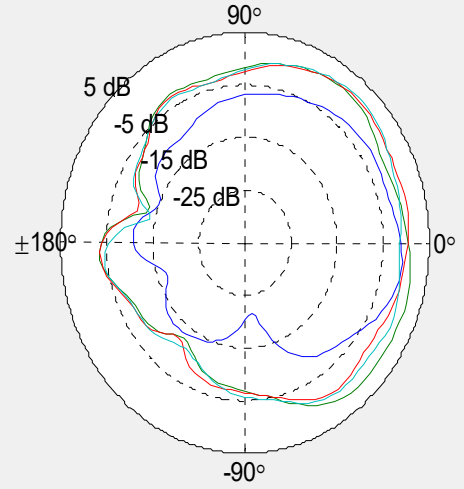
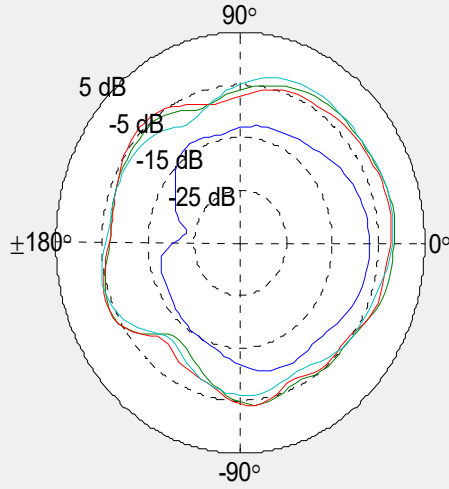
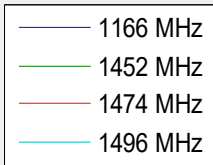
SPECIFICATION

Radiation Pattern

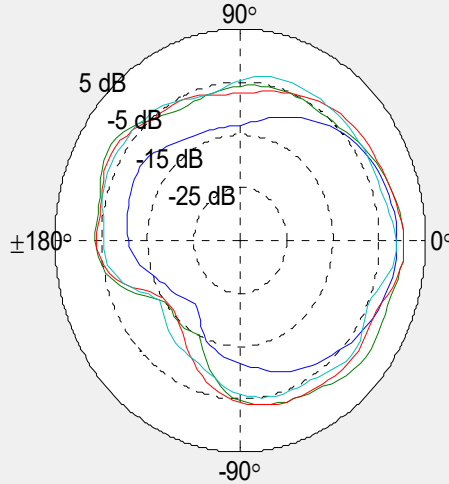
SUB6G-GPS = 1000 - 1680 MHz

XY Plane (+X = 0°ϕX, +Y = +90°ϕX) / Elevation = 90°ϕX

ZX Plane (+Z = 0°ϕX, +X = +90°ϕX) / Azimuth = 0°ϕX



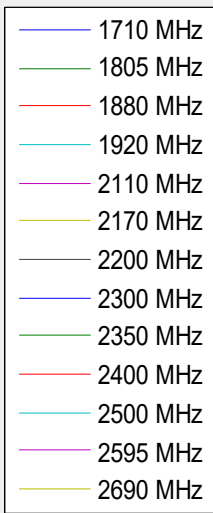
YZ Plane (+Z = 0°ϕX, +Y = +90°ϕX) / Azimuth = 90°ϕX



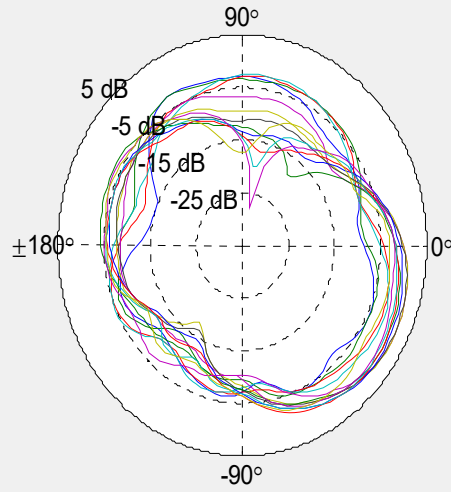
SPECIFICATION

Radiation Pattern

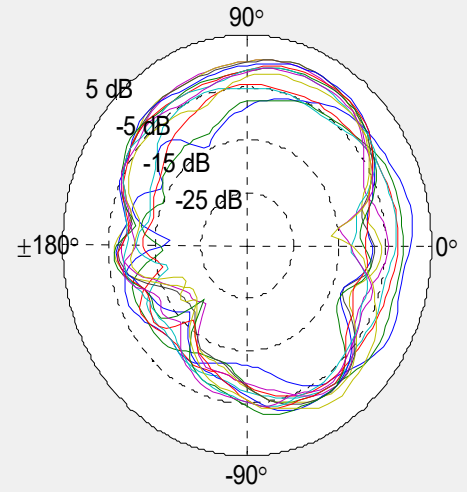
SUB6G-H3 = 1690 - 2690 MHz



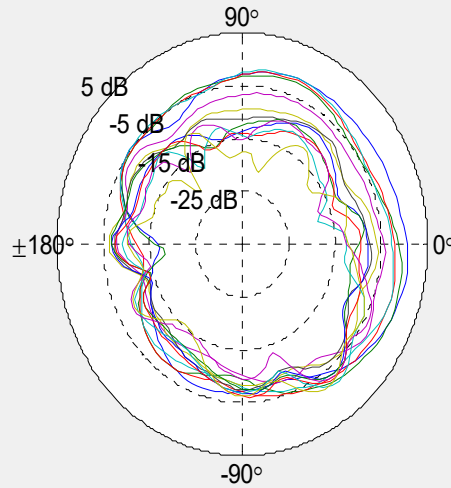
XY Plane (+X = 0φX, +Y = +90φX) / Elevation = 90 φX



ZX Plane (+Z = 0φX, +X = +90φX) / Azimuth = 0 φX



YZ Plane (+Z = 0φX, +Y = +90φX) / Azimuth = 90 φX



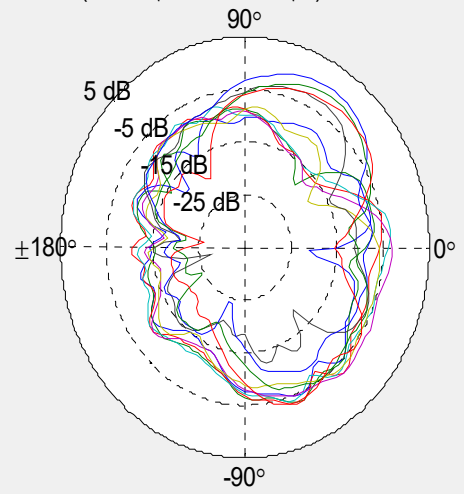
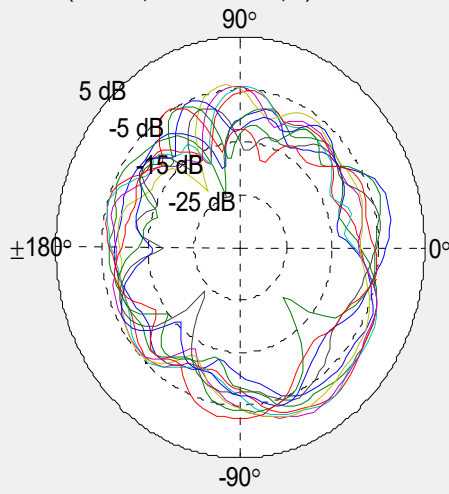
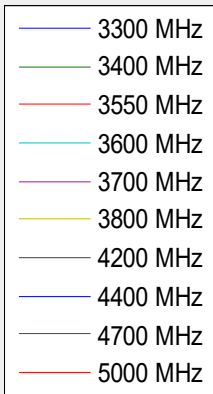
SPECIFICATION

Radiation Pattern

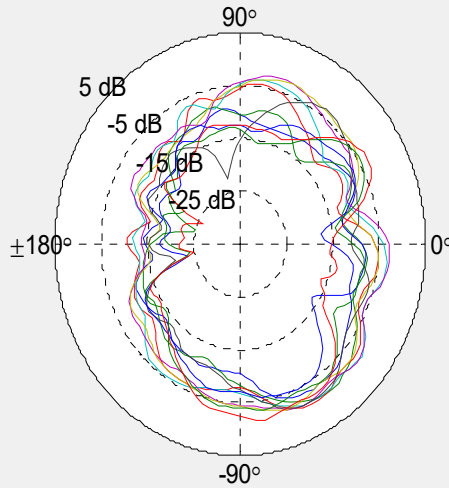
SUB6G-SHF-3 = 2900 - 5000 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



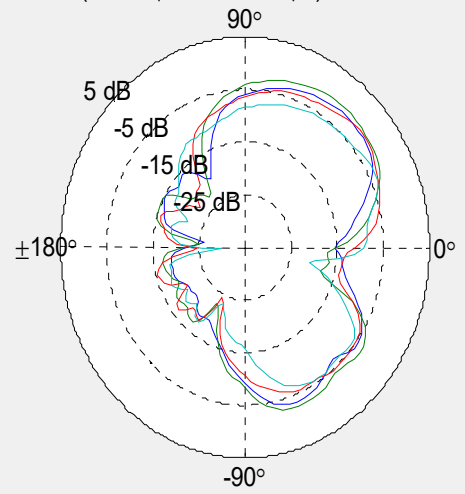
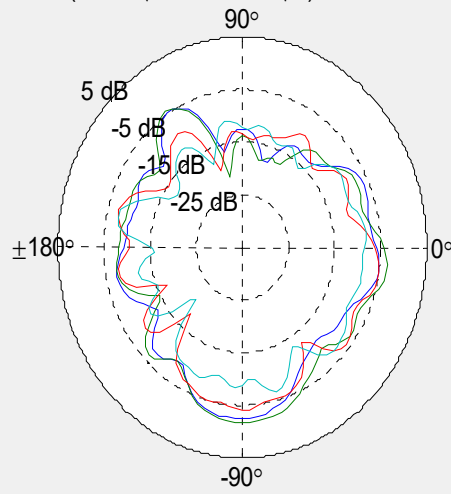
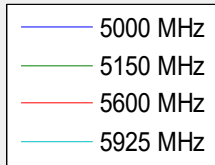
SPECIFICATION

Radiation Pattern

5G Band = 4900 - 5975 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X

