SWF010

PN: SW20272IB77



Features:

- Frequency bands from 600~ 6000MHz.
- 5G / 4G / 3G/ 2G MiMo.
- Foldable for tight spaces.
- Impedance 50 Ohm.

Applications:

- Application of 5G/4G/3G/2G equipment.
- Remote monitoring.
- Network Devices.
- CPE/Gateway
- Telematics

Sunnyway Technology

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1. Electrical Specifications

Cable 1 Parameters

Standards	5G&4G&3G&2G		
Frequency range (MHz)	600~960MHz	1400~2700MHz	3000~6000MHz
Peak Gain (dBi)	-0.4~4.1	2.4~4.3	0.0~4.2
Average Gain (dB)	-4.7~-1.5	-3.7~-1.3	-5.0~-1.8
VSWR	< 3.0	< 2.6	< 3.2
Return Loss (dB)	< -6.8	< -7.0	< -6.0
Efficiency (%)	34.1~70.3	43.1~73.4	31.3~66.3
Polarization mode	Linear	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50	50
Max. Input Power(W)	25	25	25

Cable 2 Parameters

Standards	5G&4G&3G&2G		
Frequency range (MHz)	600~960MHz	1400~2700MHz	3000~6000MHz
Peak Gain (dBi)	-0.1~3.9	2.1~5.0	-0.7~4.8
Average Gain (dB)	-3.5~-1.0	-3.4~-1.5	-5.5~-1.4
VSWR	< 3.2	< 2.6	< 3.1
Return Loss (dB)	< -5.7	< -7.0	< -6.0
Efficiency (%)	44.9~78.7	45.3~70.5	31.0~76.0
Polarization mode	Linear	Linear	Linear

Radiation pattern	Omni-Directional	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50	50
Max. Input Power(W)	25	25	25

2. Mechanical and Environmental Specification

Mounting Type	Adhesive
Adhesive Type	3M467
Connector Type	U.FL Standard
Antenna size(mm)	276.00mm (L) x 25.00mm (W) x0.12mm (H)
Material	FPC
Cable length(mm)	100mm
Operating Temperature (˚C)	- 40 ˚C ~ 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ 85 ˚C

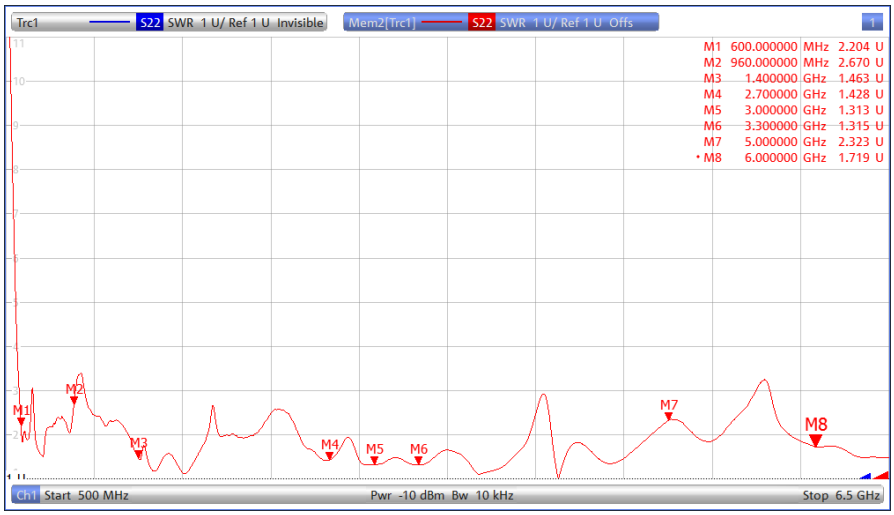
3. Antenna parameters

3.1 Cable 1: 5G&4G&3G&2G

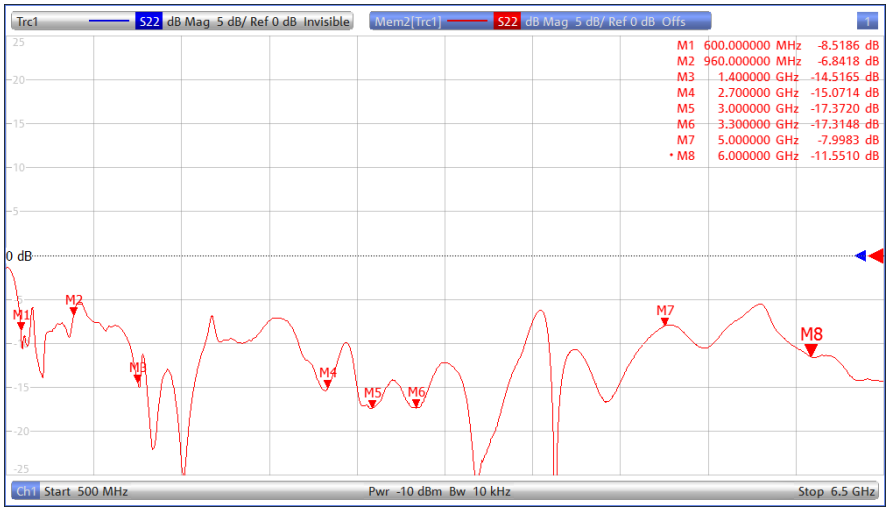
3.1.1 General Data

FRE (MHz)	600	960	1400	2700	3000	3300	5000	6000
VSWR	2.2	2.7	1.5	1.4	1.3	1.3	2.3	1.7
Return Loss	-8.5	-6.8	-14.5	-15.1	-17.4	-17.3	-8.0	-11.6
Eff (%)	52.5	54.4	73.4	44.0	57.7	47.2	55.5	50.7
Average Gain	-2.8	-2.7	-1.3	-3.6	-2.4	-3.3	-2.6	-3.0

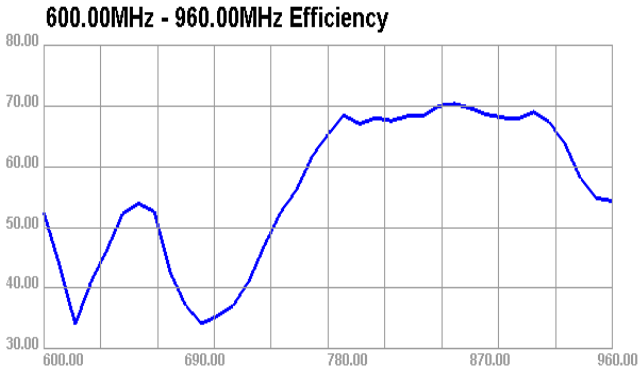
3.1.2 VSWR

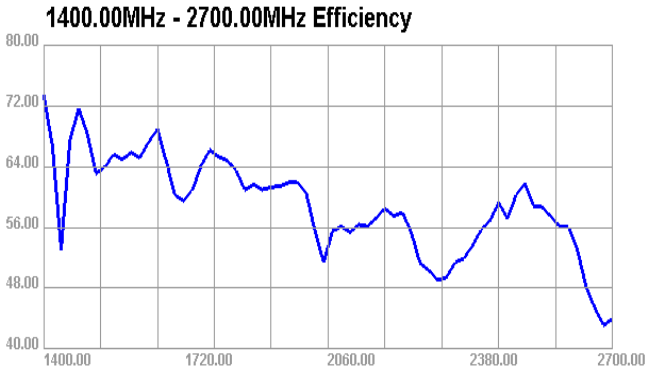


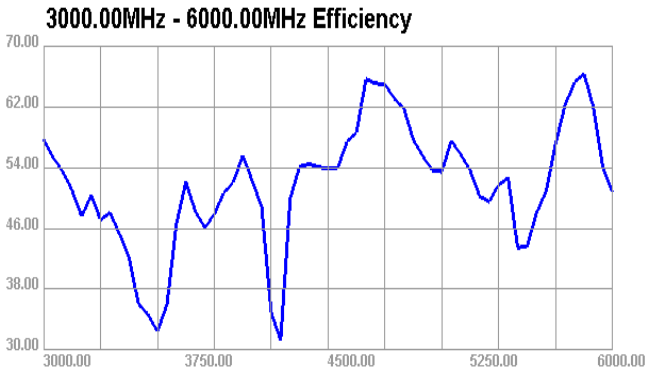
3.1.3 Return Loss



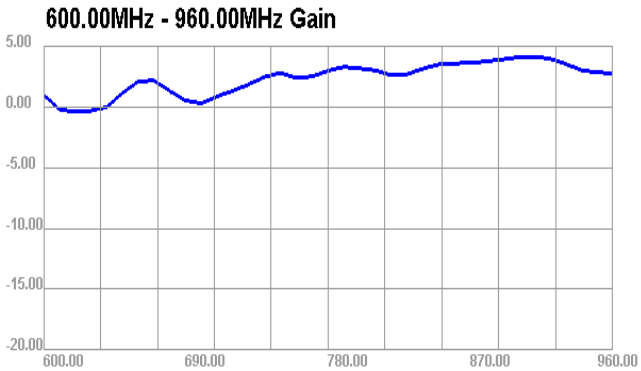
3.1.4 Efficiency

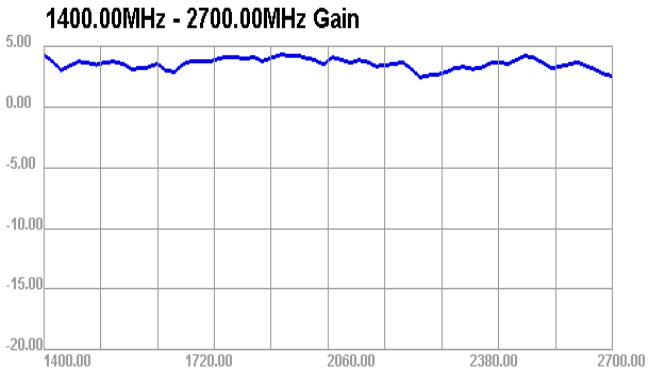


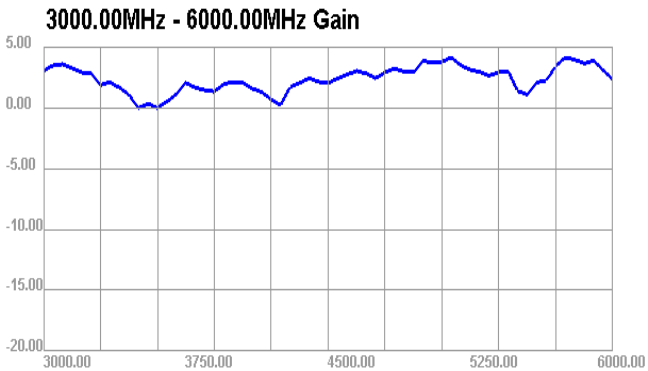




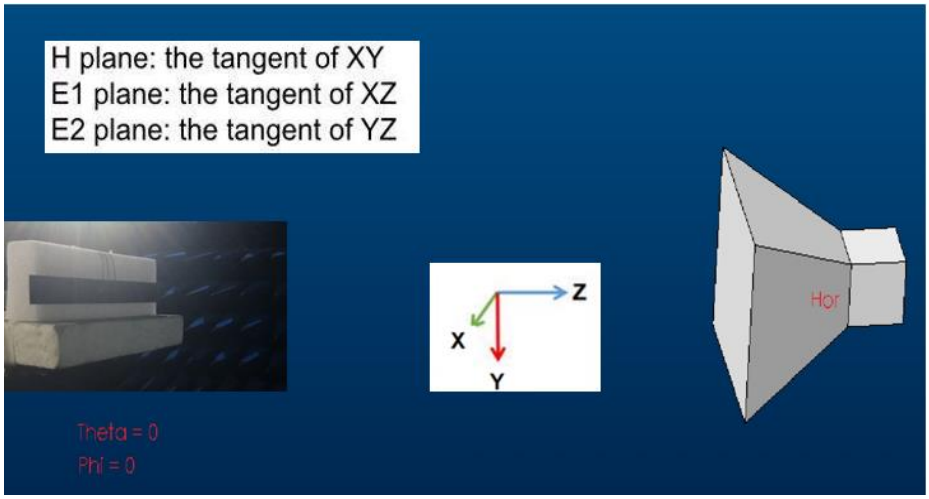
3.1.5 Gain

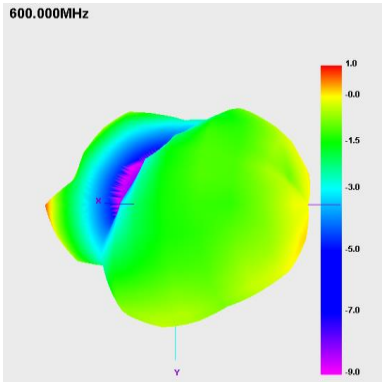


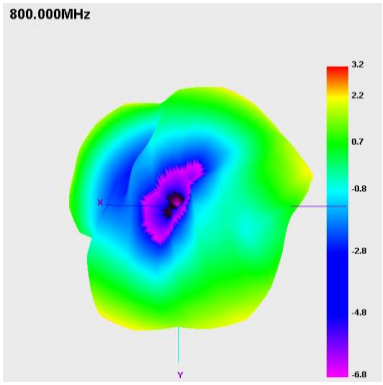


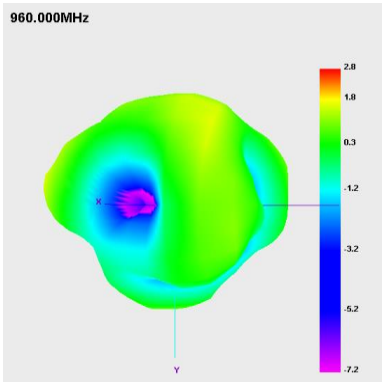


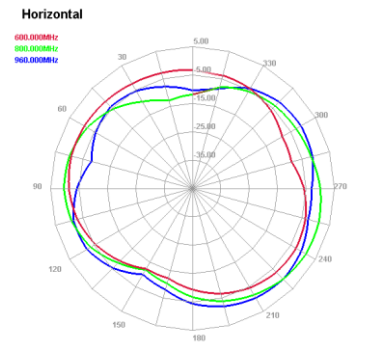
3.1.6 Directional pattern

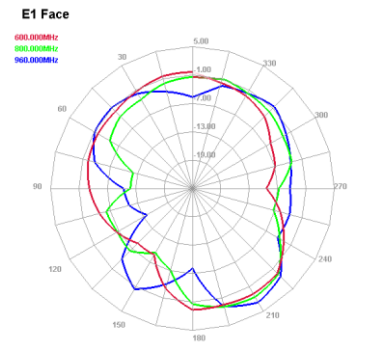




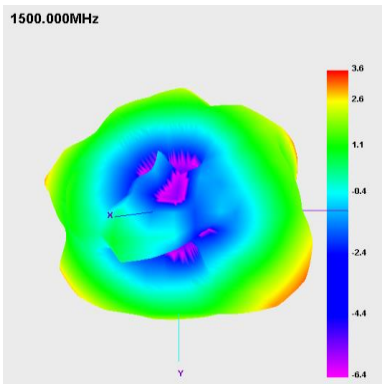


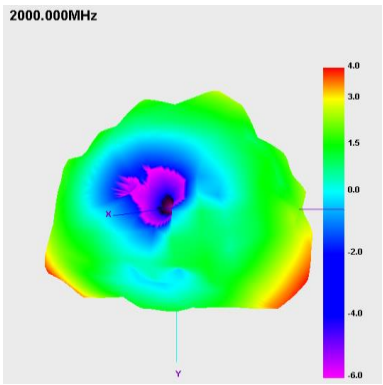


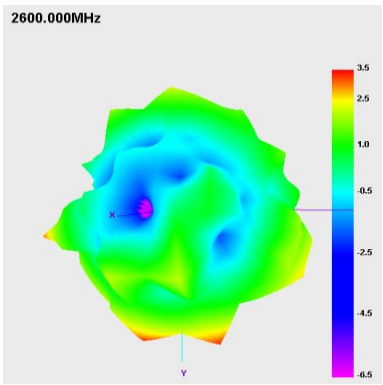


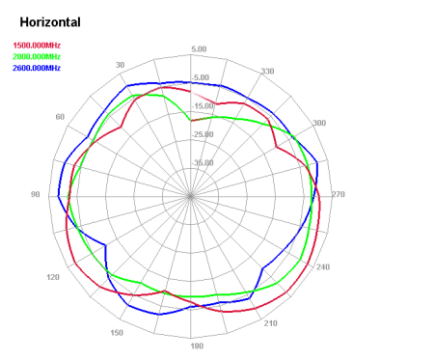


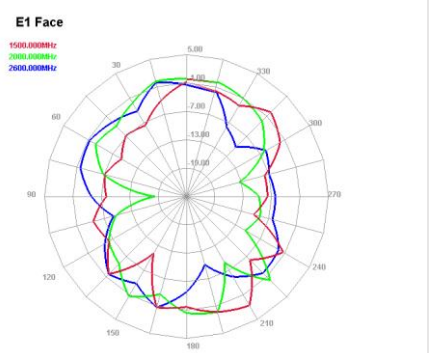


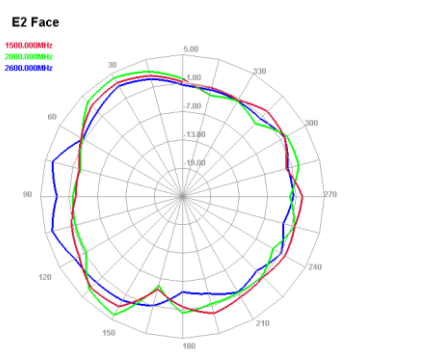


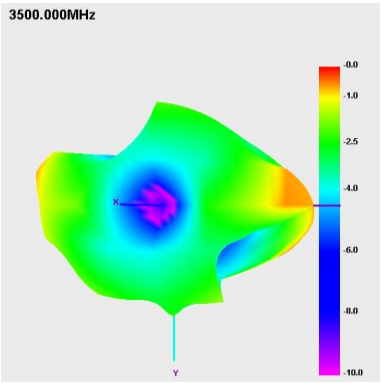


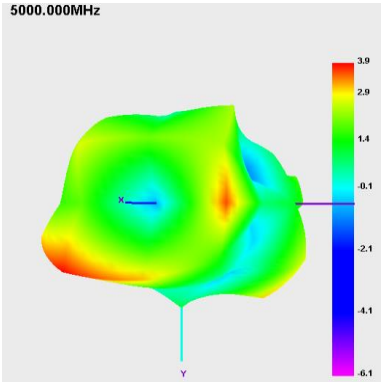


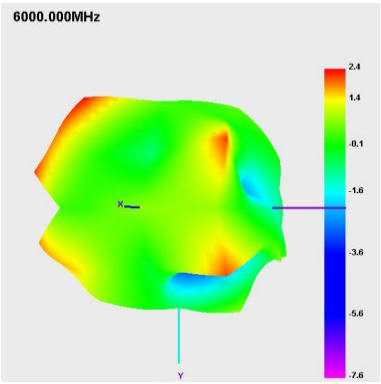

Horizontal
1500.000MHz
2000.000MHz
2600.000MHz

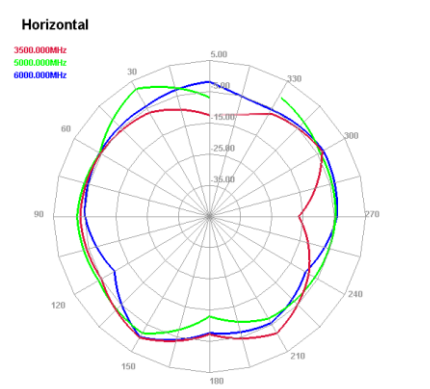

E1 Face
1500.000MHz
2000.000MHz
2600.000MHz

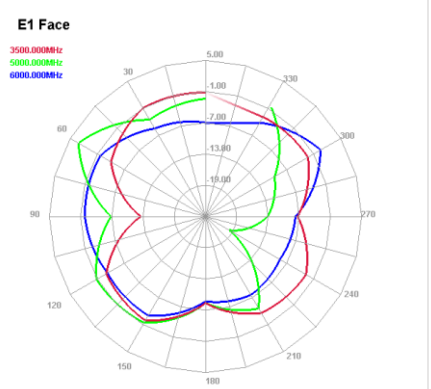

E2 Face
1500.000MHz
2000.000MHz
2600.000MHz

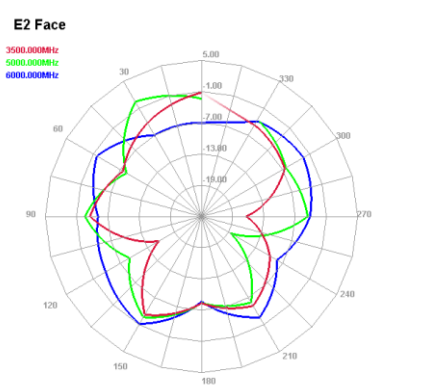

3500.000MHz


5000.000MHz


6000.000MHz


Horizontal
3500.000MHz
5000.000MHz
6000.000MHz


E1 Face
3500.000MHz
5000.000MHz
6000.000MHz

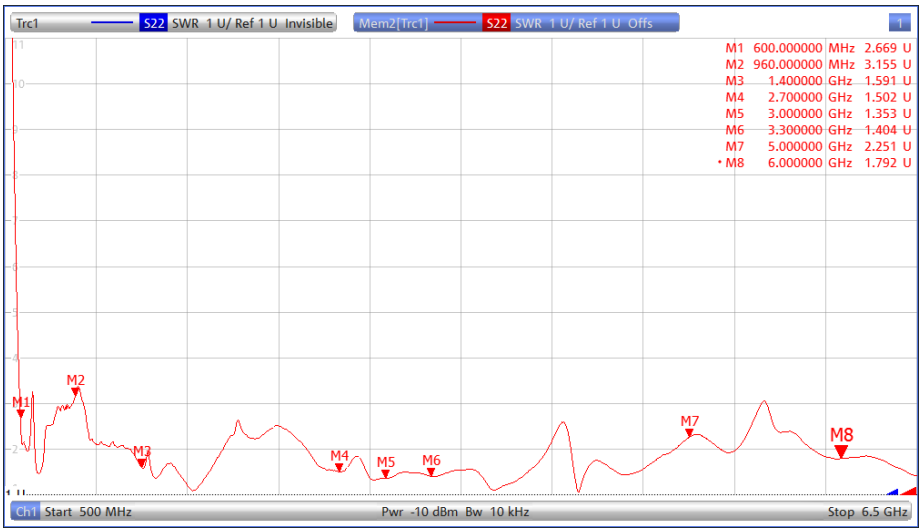

E2 Face
3500.000MHz
5000.000MHz
6000.000MHz

3.2 Cable 2: 5G&4G&3G&2G

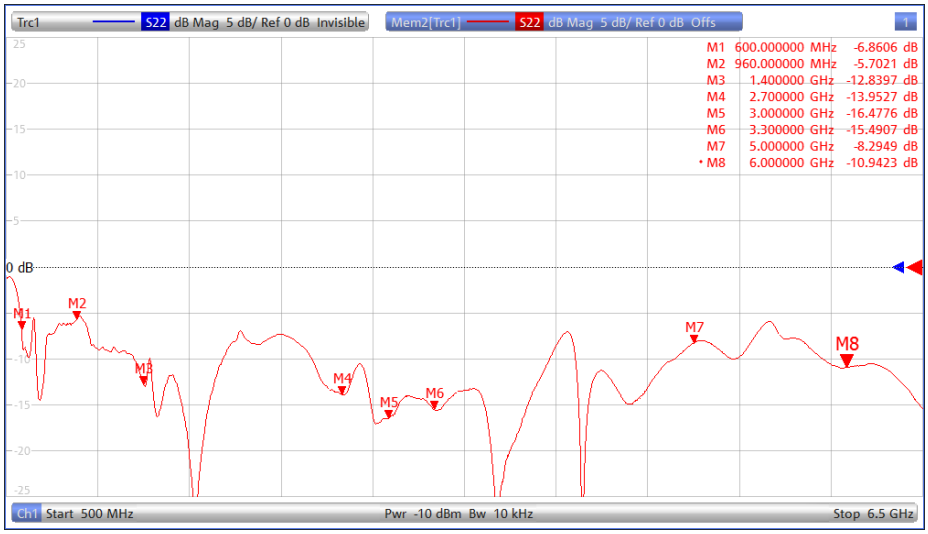
3.2.1 General Data

FRE (MHz)	600	960	1400	2700	3000	3300	5000	6000
VSWR	2.7	3.2	1.6	1.5	1.4	1.4	2.3	1.8
Return Loss	-6.9	-5.7	-12.8	-14.0	-16.5	-15.5	-8.3	-10.9
Eff (%)	50.7	58.6	67.3	45.6	50.0	49.2	61.8	42.0
Average Gain	-3.0	-2.3	-1.7	-3.4	-3.0	-3.1	-2.1	-3.8

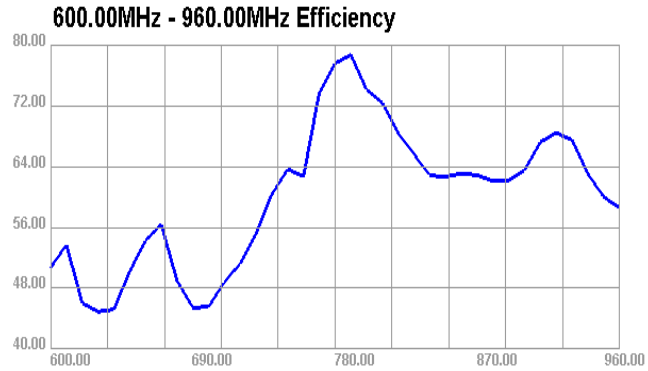
3.2.2 VSWR

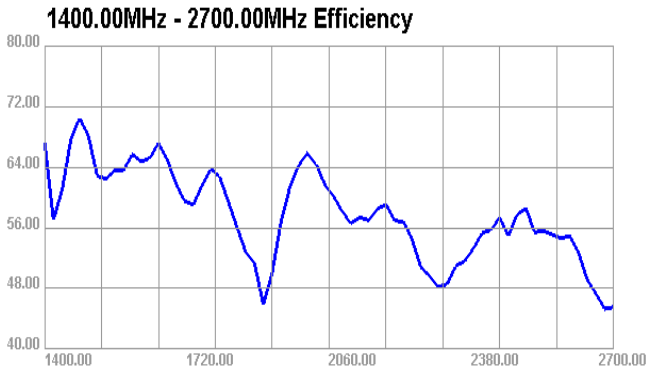


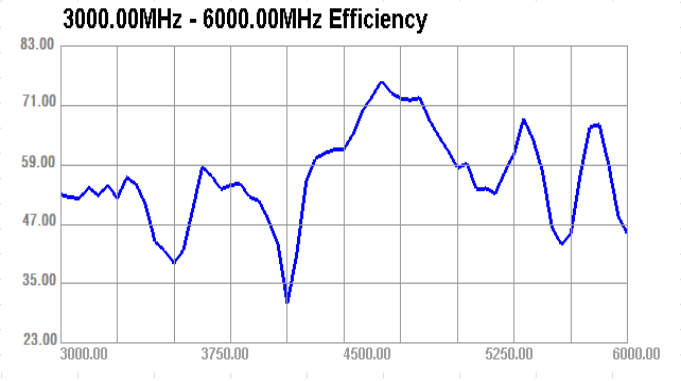
3.2.3 Return Loss



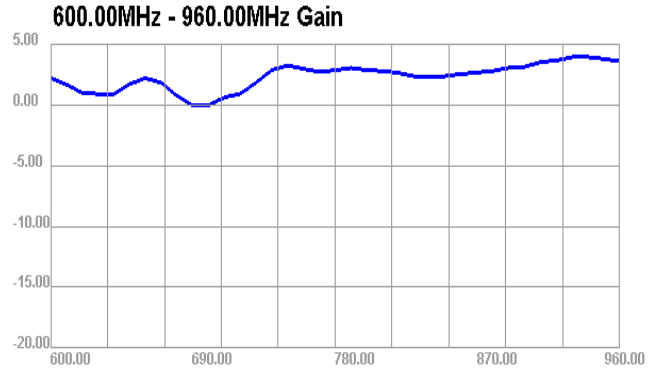
3.2.4 Efficiency

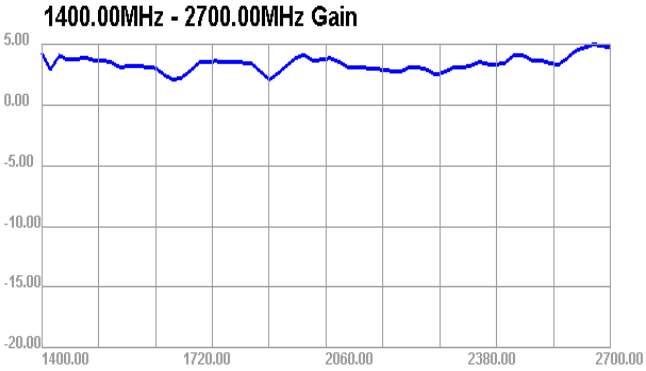


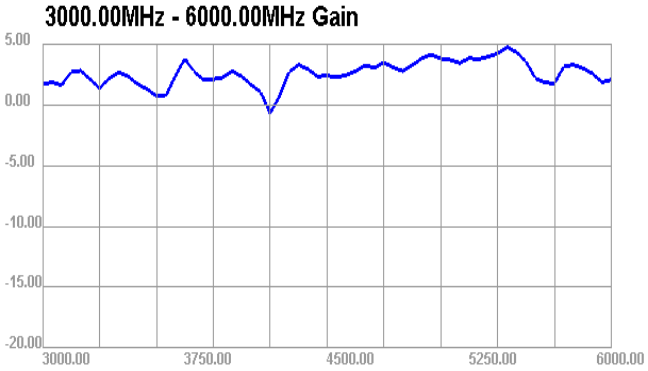




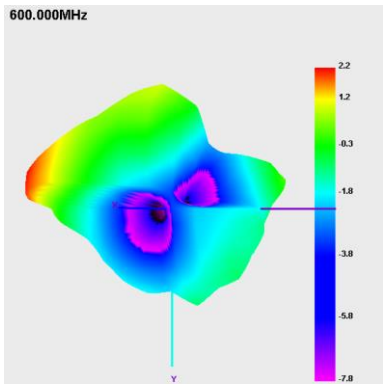
3.2.5 Gain

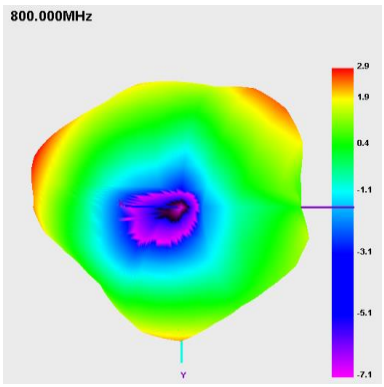


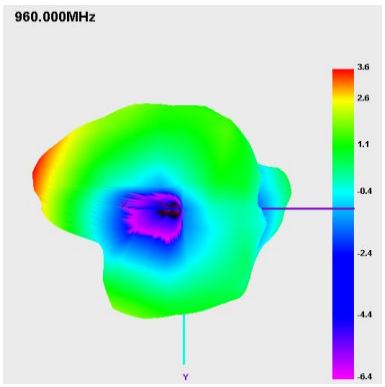


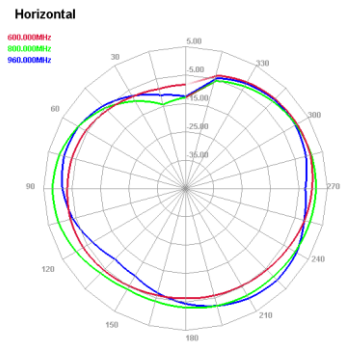


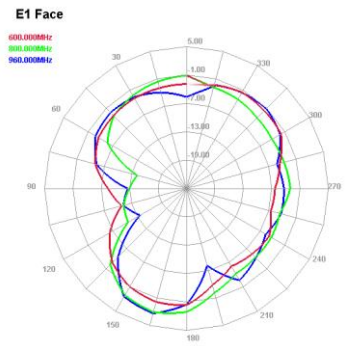
3.2.6 Directional pattern

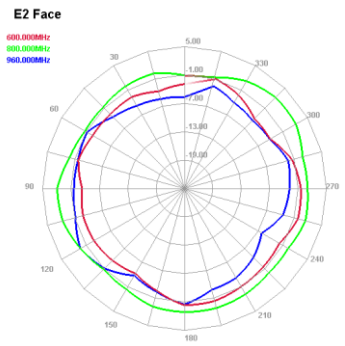


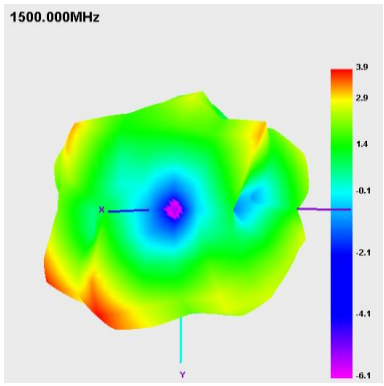


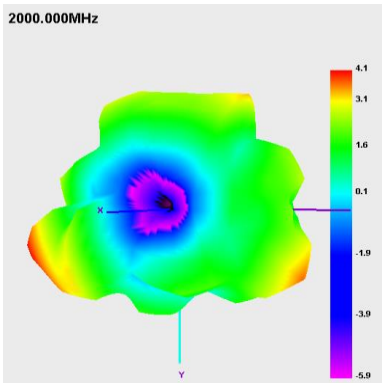


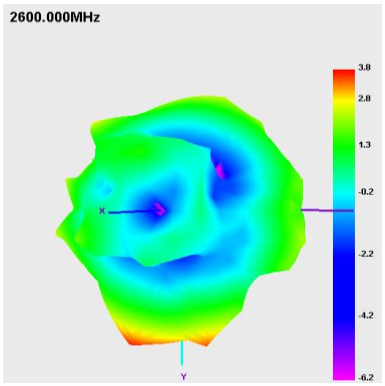


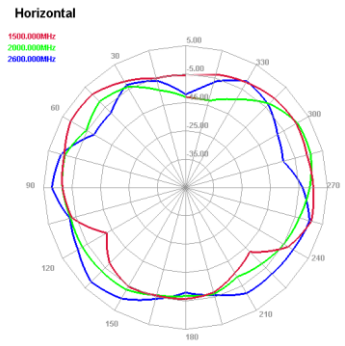


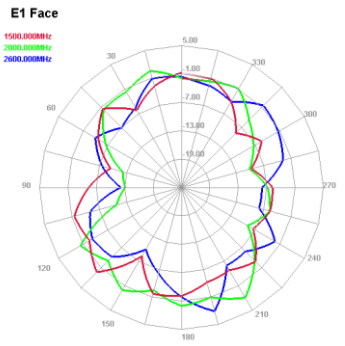


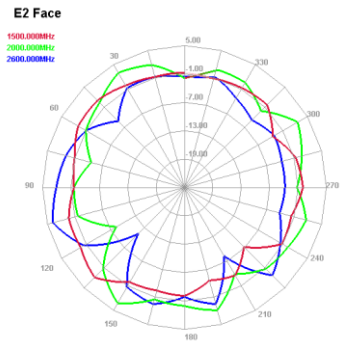


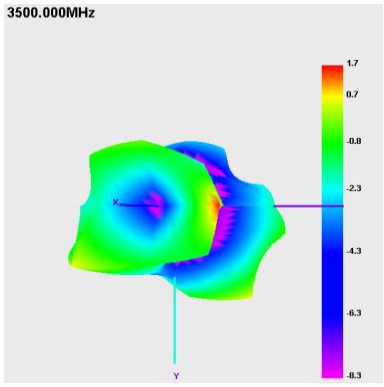


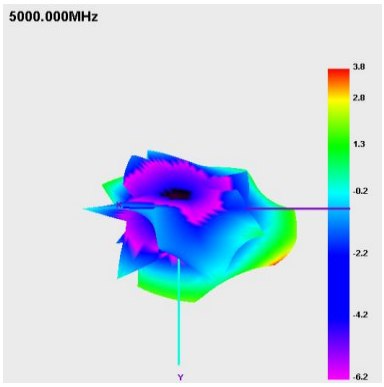


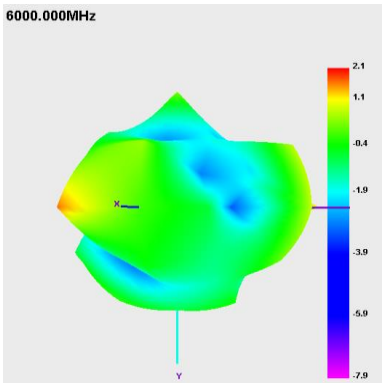


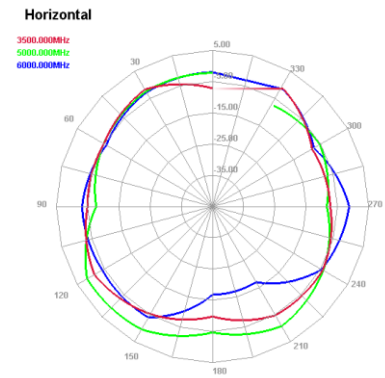


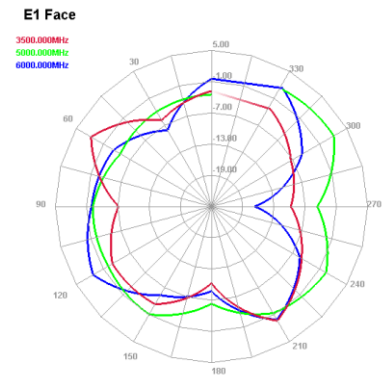


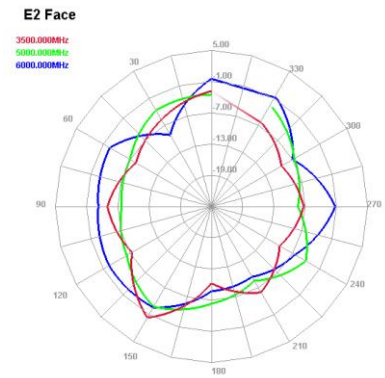






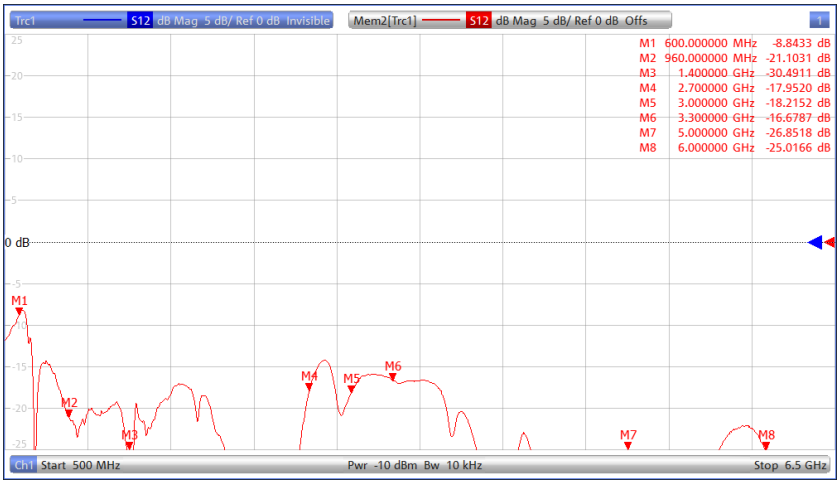






3.3 Isolation

Isolation of cables 1 and 2



4. Antenna Drawing

