RH137-SMA-15

15 dBi Gain, 5.38-8.17 GHz, WR137 Standard Gain Horn with SMA Female Port

Rev 1

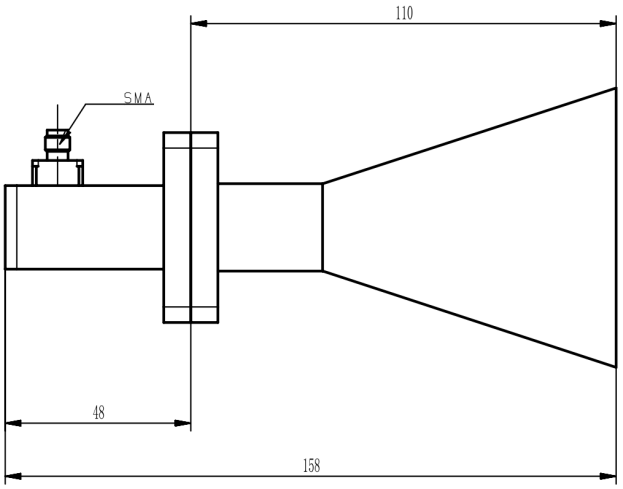
Electrical

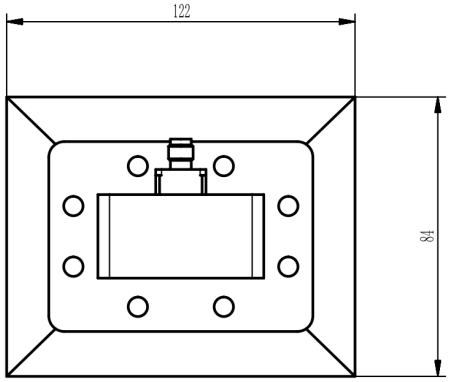
Frequency Range	5.38-8.17 GHz
Norminal Gain	15 dBi
Polarization	Linear
VSWR	1.3 max
Operating Temperature	-40℃~+70℃

Mechanical

Waveguide Size	WR137
Flange Type	UDR70 Rectangular Cover Flange
Body Material and Finish	Aluminum, Painted
RF Connector	SMA Female

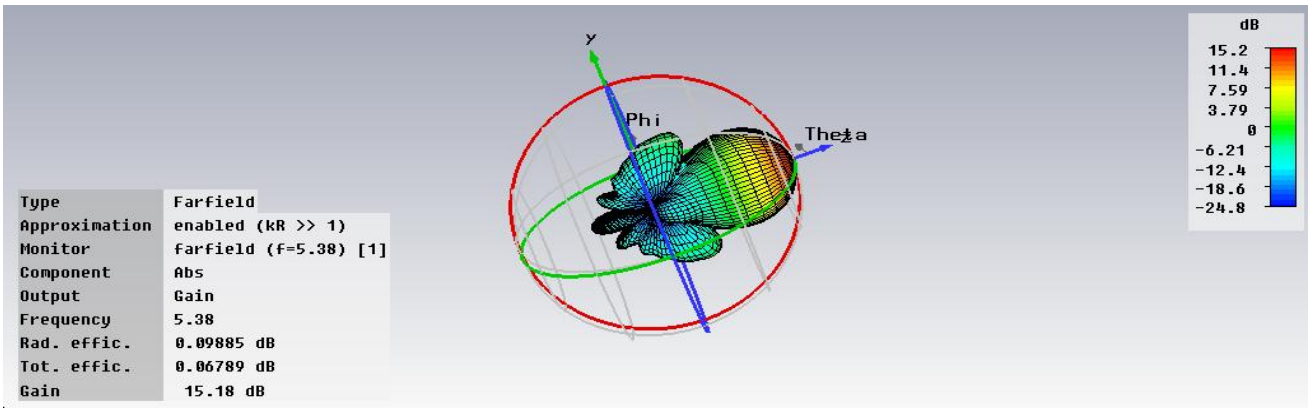
Dimensions(mm)





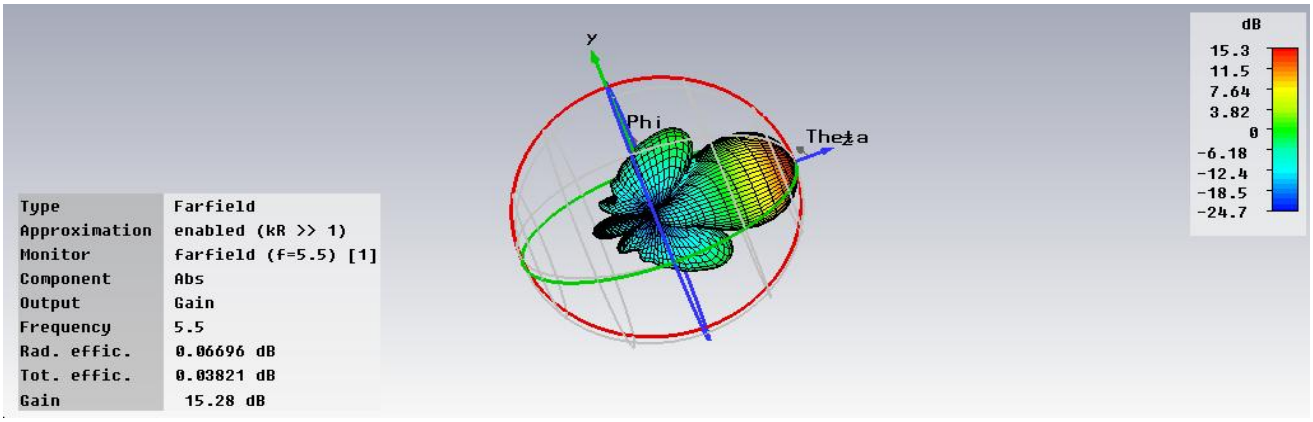
Gain

5.38GHz



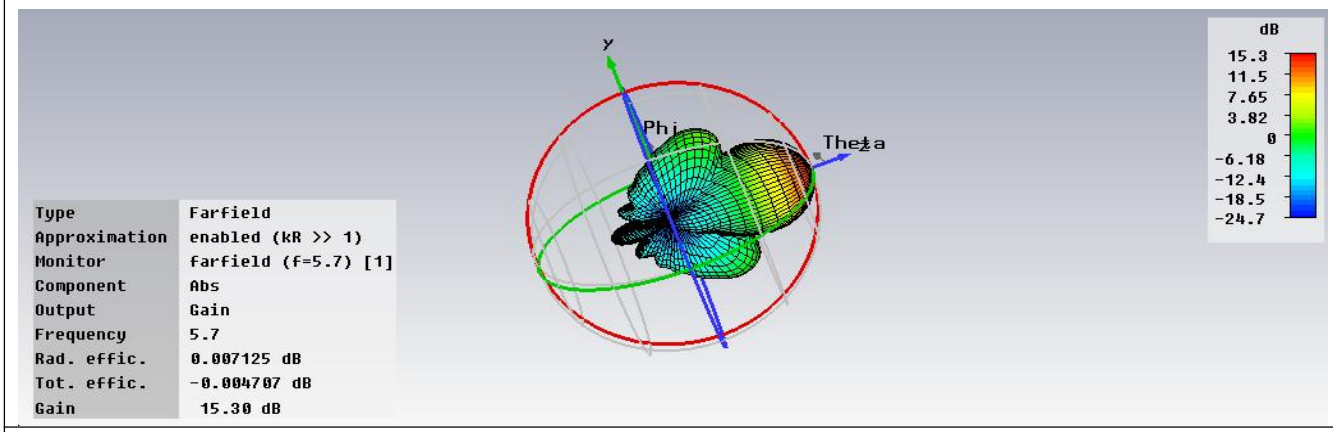
Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=5.38) [1]
Component	Abs
Output	Gain
Frequency	5.38
Rad. effic.	0.09885 dB
Tot. effic.	0.06789 dB
Gain	15.18 dB

5.5GHz



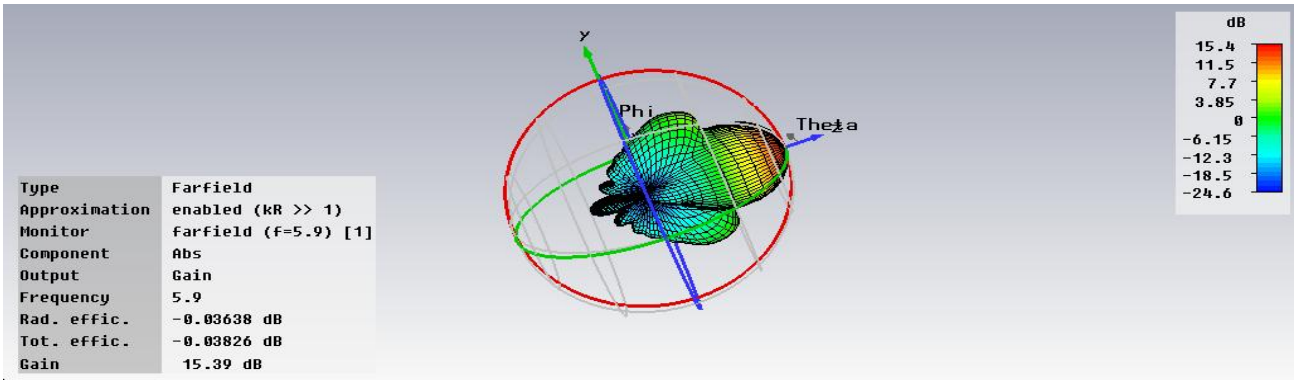
Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=5.5) [1]
Component	Abs
Output	Gain
Frequency	5.5
Rad. effic.	0.06696 dB
Tot. effic.	0.03821 dB
Gain	15.28 dB

5.7GHz



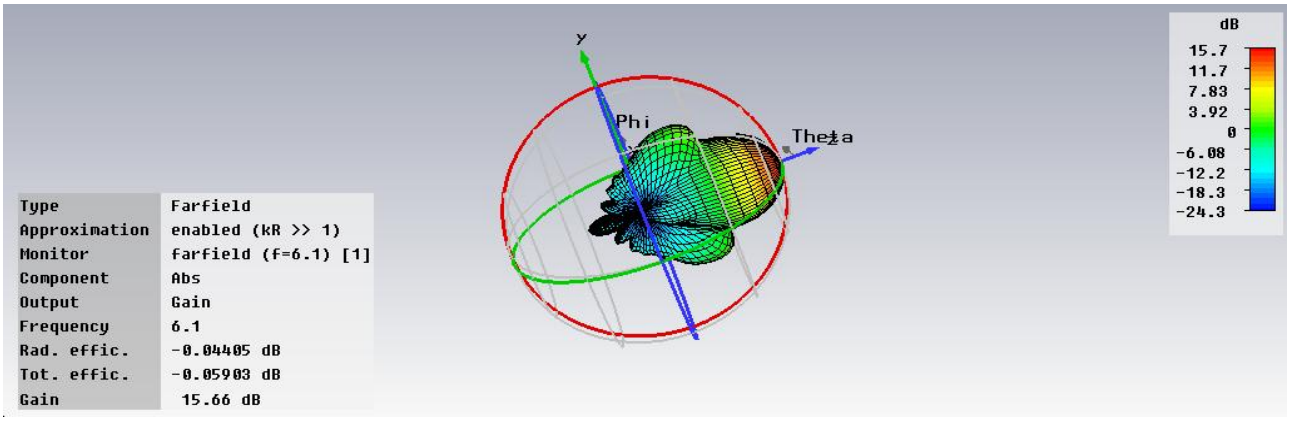
Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=5.7) [1]
Component	Abs
Output	Gain
Frequency	5.7
Rad. effic.	0.007125 dB
Tot. effic.	-0.004707 dB
Gain	15.30 dB

5.9GHz



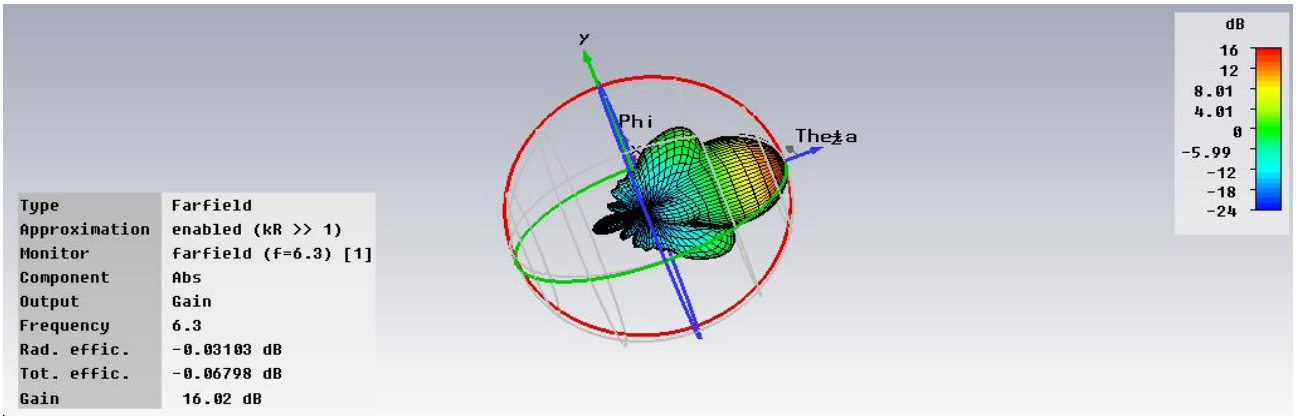
Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=5.9) [1]
Component	Abs
Output	Gain
Frequency	5.9
Rad. effic.	-0.03638 dB
Tot. effic.	-0.03826 dB
Gain	15.39 dB

6.1GHz



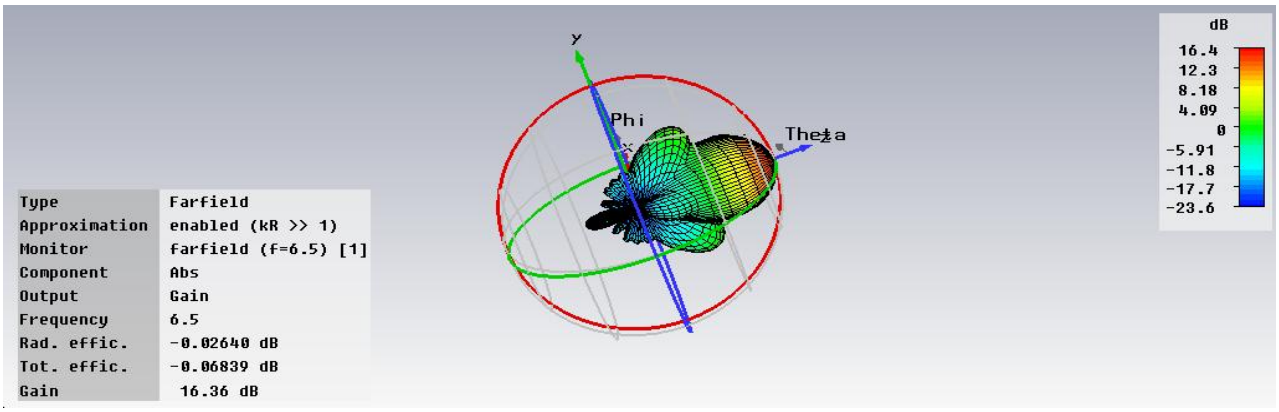
Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=6.1) [1]
Component	Abs
Output	Gain
Frequency	6.1
Rad. effic.	-0.04405 dB
Tot. effic.	-0.05903 dB
Gain	15.66 dB

6.3GHz



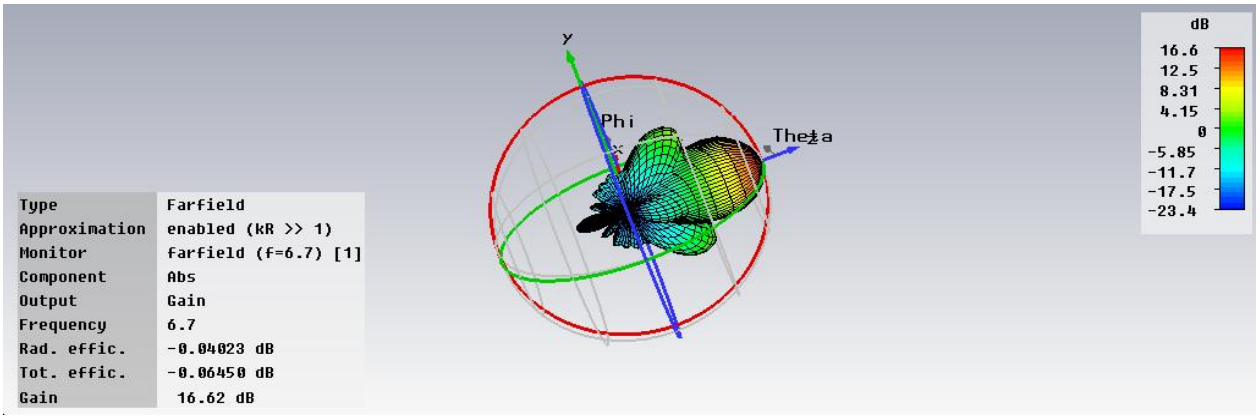
Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=6.3) [1]
Component	Abs
Output	Gain
Frequency	6.3
Rad. effic.	-0.03103 dB
Tot. effic.	-0.06798 dB
Gain	16.02 dB

6.5GHz



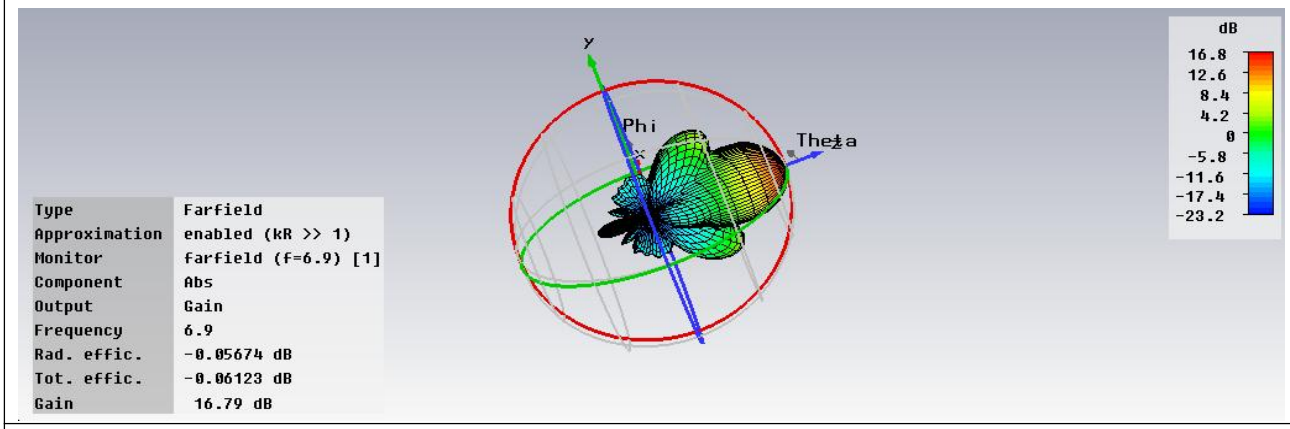
Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=6.5) [1]
Component	Abs
Output	Gain
Frequency	6.5
Rad. effic.	-0.02640 dB
Tot. effic.	-0.06839 dB
Gain	16.36 dB

6.7GHz



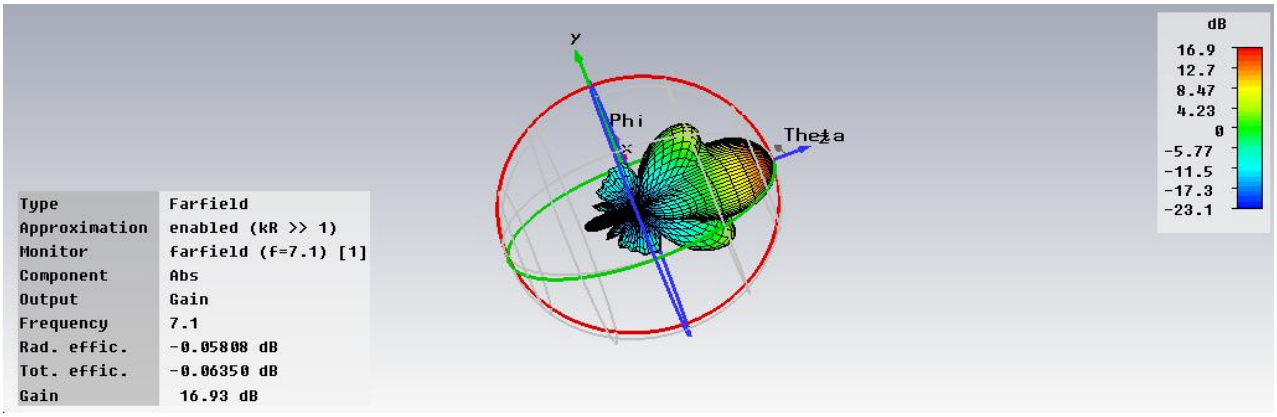
Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=6.7) [1]
Component	Abs
Output	Gain
Frequency	6.7
Rad. effic.	-0.04023 dB
Tot. effic.	-0.06450 dB
Gain	16.62 dB

6.9GHz



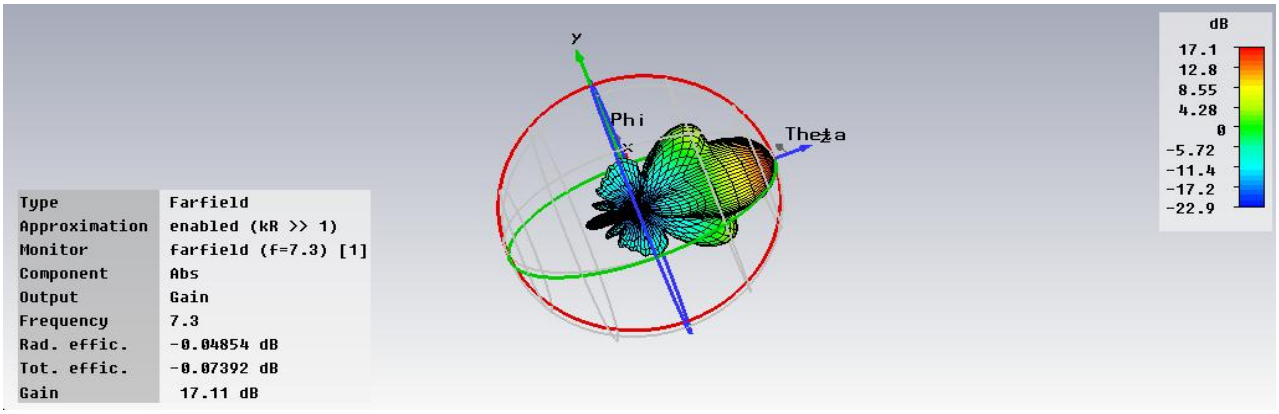
Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=6.9) [1]
Component	Abs
Output	Gain
Frequency	6.9
Rad. effic.	-0.05674 dB
Tot. effic.	-0.06123 dB
Gain	16.79 dB

7.1GHz



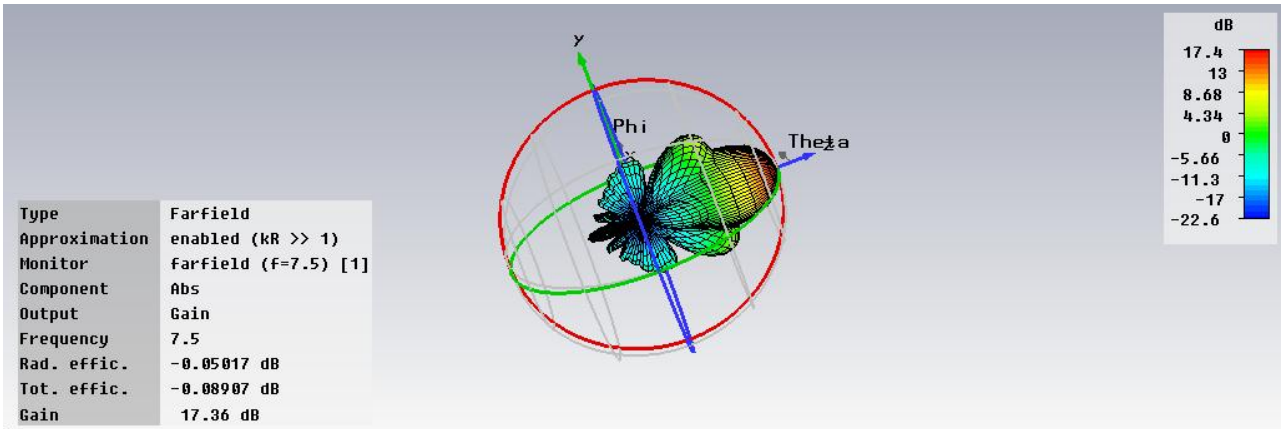
Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=7.1) [1]
Component	Abs
Output	Gain
Frequency	7.1
Rad. effic.	-0.05808 dB
Tot. effic.	-0.06350 dB
Gain	16.93 dB

7.3GHz



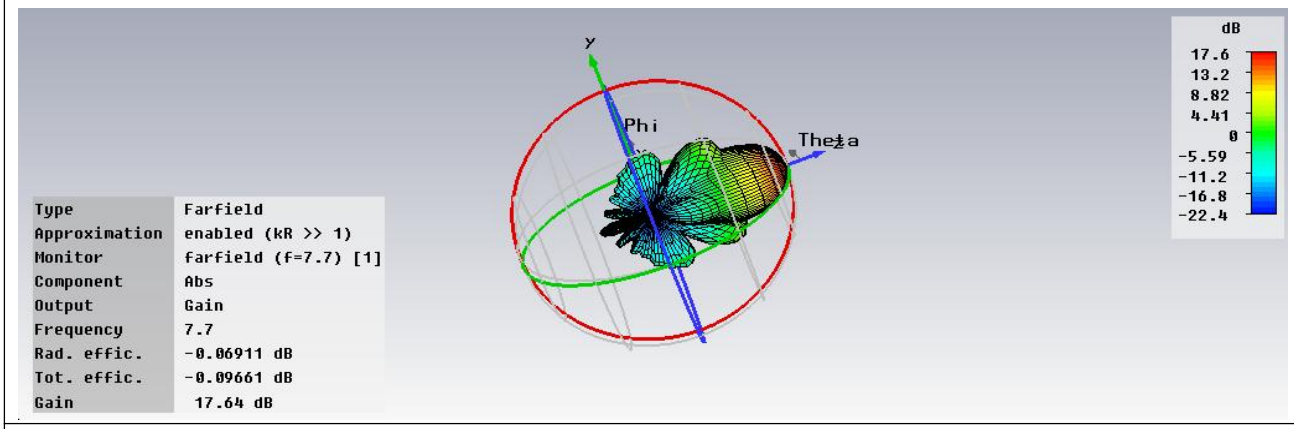
Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=7.3) [1]
Component	Abs
Output	Gain
Frequency	7.3
Rad. effic.	-0.04854 dB
Tot. effic.	-0.07392 dB
Gain	17.11 dB

7.5GHz



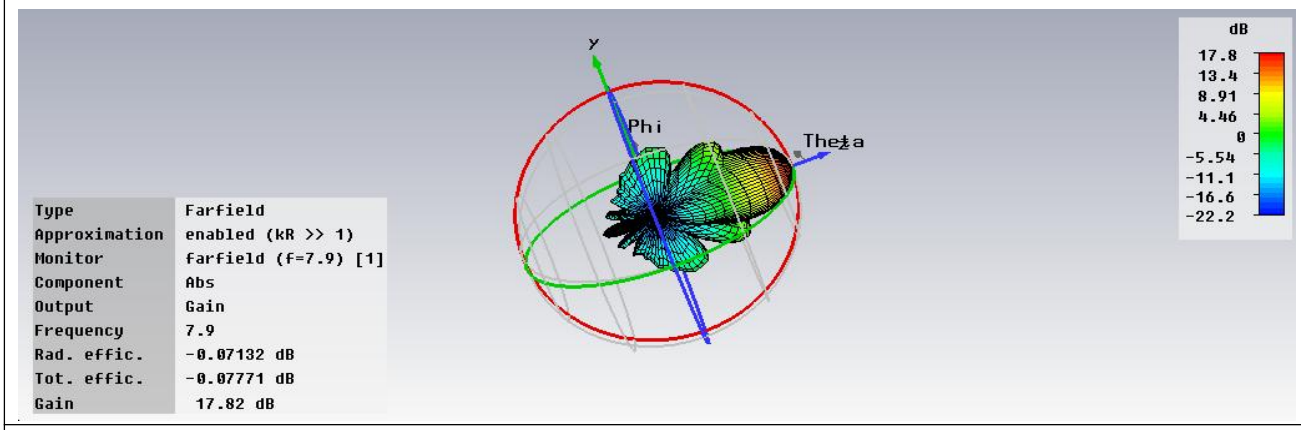
Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=7.5) [1]
Component	Abs
Output	Gain
Frequency	7.5
Rad. effic.	-0.05017 dB
Tot. effic.	-0.08907 dB
Gain	17.36 dB

7.7GHz



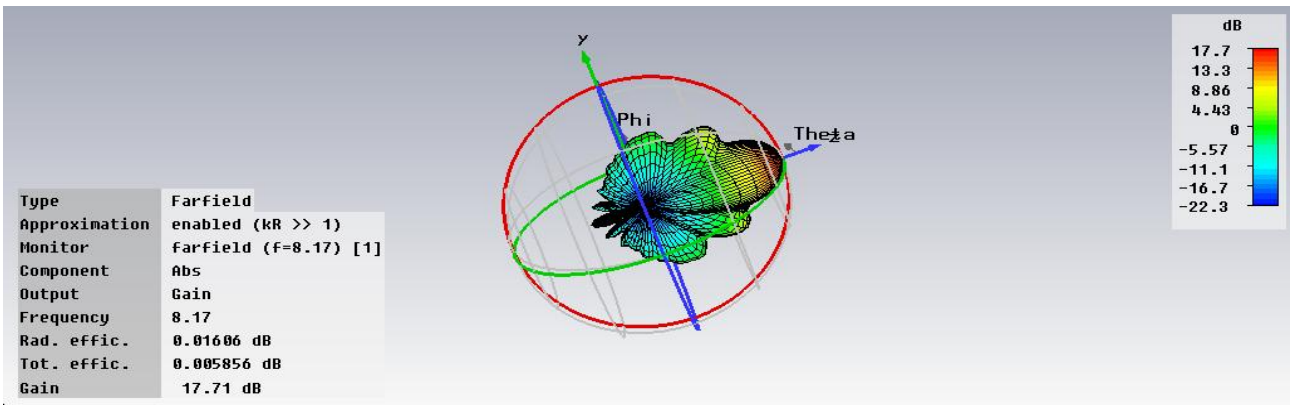
Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=7.7) [1]
Component	Abs
Output	Gain
Frequency	7.7
Rad. effic.	-0.06911 dB
Tot. effic.	-0.09661 dB
Gain	17.64 dB

7.9GHz



Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=7.9) [1]
Component	Abs
Output	Gain
Frequency	7.9
Rad. effic.	-0.07132 dB
Tot. effic.	-0.07771 dB
Gain	17.82 dB

8.17GHz



Type	Farfield
Approximation	enabled (kR >> 1)
Monitor	farfield (f=8.17) [1]
Component	Abs
Output	Gain
Frequency	8.17
Rad. effic.	0.01606 dB
Tot. effic.	0.005856 dB
Gain	17.71 dB