Model : MR6150

FCC ID : PY322100564

ANTENNA DATASHEET

2022

PEGATRON

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Antenna Part Number ANT4 WIFI Antenna	
Antenna Part Number ANT5 UH Antenna	
Antenna Part Number ANT6 GPS Antenna	
Antenna type ANT1 LTE L/M/H/UH band Antenna	Monopole
Antenna type ANT2 LTE L/M/H/UH band Antenna	Monopole
Antenna type ANT3 WIFI Antenna	Monopole
Antenna type ANT4 WIFI Antenna	Monopole
Antenna type ANT5 UH Antenna	Monopole
Antenna type ANT6 GPS Antenna	PIFA
Peak Gain ANT1 LTE L/M/H/UH band Antenna	See the table 3.2.1
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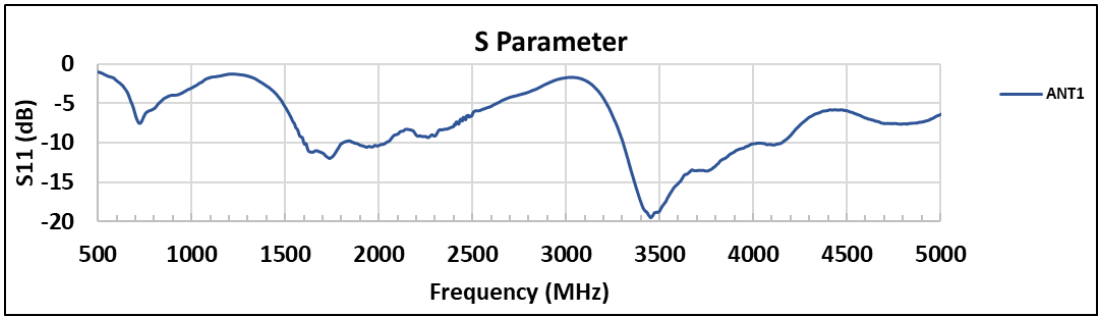
Peak Gain ANT6 GPS Antenna	See the table 3.2.6

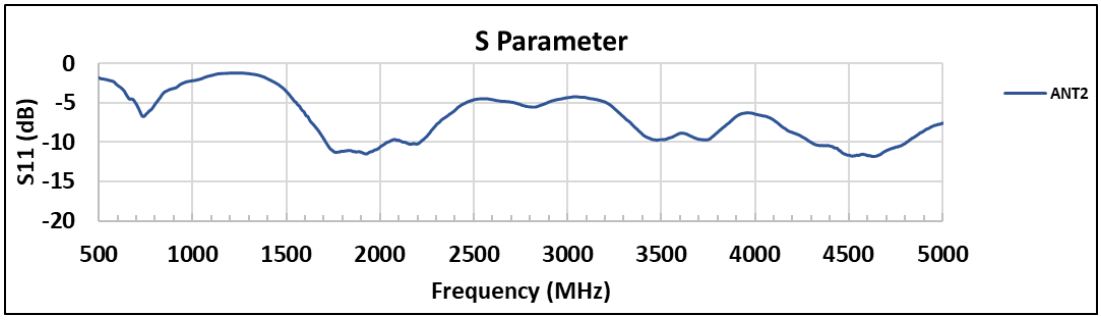
2. Performance Data

3.1 Return Loss

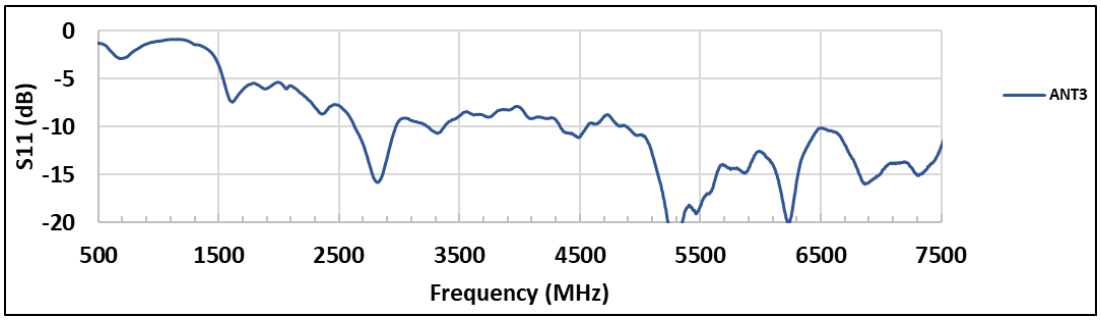
3.1.1 ANT1 LTE LMH band Antenna



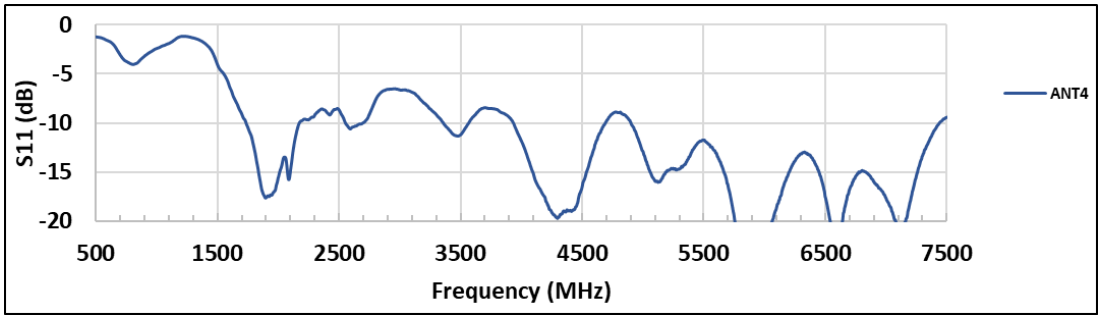
3.1.2 ANT2 LTE LMH band Antenna



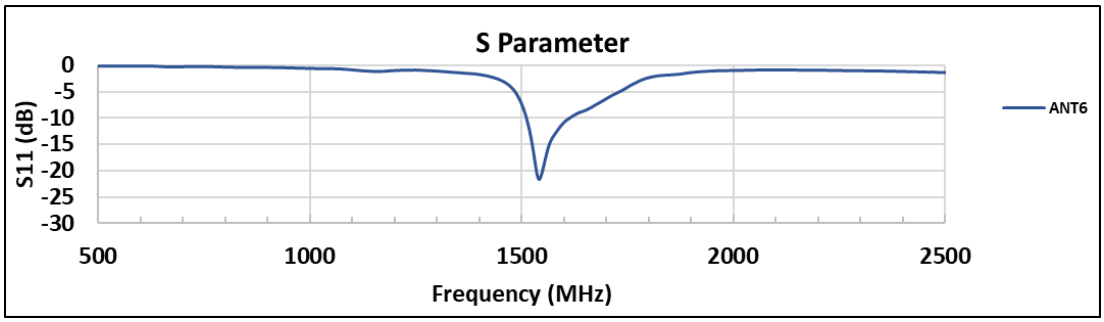
3.1.3 ANT3 WIFI Antenna



3.1.4 ANT4 WIFI Antenna



3.1.5 ANT6 GPS Antenna



3.2 Peak Gain summary

L/M/H/UH band	
ANT 1	**Gain (dBi)**
Frequency (MHz)	
663 - 698	-0.83
698 - 716	-0.83
717 - 728	-0.83
777 - 787	-0.83
788 - 798	-0.83
814 - 849	-0.88
824 - 849	-0.88
1710 - 1755	0.67
1710 - 1780	0.67
1850 - 1915	0.67
1850 - 1919	0.67
2305 - 2315	1.03
2496 - 2690	0.39
2500 - 2570	0.39
3300 - 4200	0.17
3550 - 3700	0.17

Table 3.2.1

L/M/H/UH band	
ANT 2	Gain (dBi)
Frequency (MHz)	
663 - 698	-1.6
698 - 716	-1.6
717 - 728	-1.6
777 - 787	-1.6
788 - 798	-1.6
814 - 849	-1.6
824 - 849	-1.6
1710 - 1755	0.54
1710 - 1780	0.54
1850 - 1915	0.45
1850 - 1919	0.45
2305 - 2315	1.05
2496 - 2690	-0.53
2500 - 2570	-0.53
3300 - 4200	1.66
3550 - 3700	0.47

Table 3.2.2

WIFI band	
ANT 3	Gain (dBi)
Frequency (MHz)	
2400 - 2483.5	2.63
5150 - 5250	3.29
5250 - 5350	3.29
5470 - 5725	3.29
5725 - 5850	2.9

Table 3.2.3

WIFI band	
ANT 4	Gain (dBi)
Frequency (MHz)	
2400 - 2483.5	2.15
5150 - 5250	2.59
5250 - 5350	2.59
5470 - 5725	2.59
5725 - 5850	1.95

Table 3.2.4

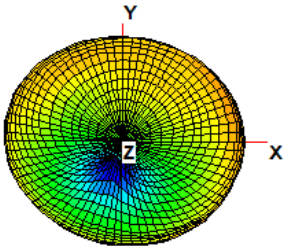
UH band	
ANT 5	Gain (dBi)
Frequency (MHz)	
3300 - 4200	0.98

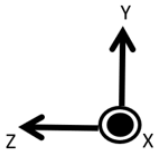
Table 3.2.5

GPS / UH band	
ANT 6	Gain (dBi)
Frequency (MHz)	
1565 - 1585	1.33
3300 - 4200	3.31

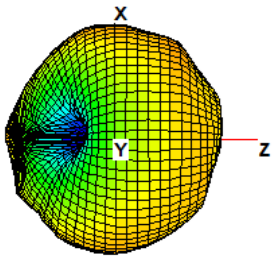
Table 3.2.6

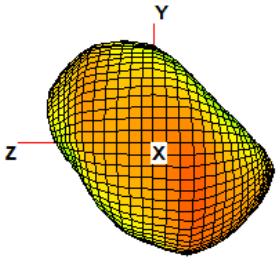
3.3 Radiation Pattern for 3D Data

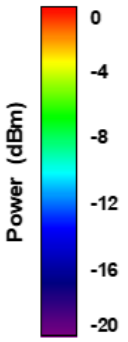




X-Y plan



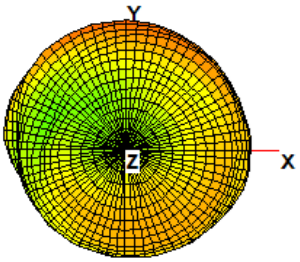


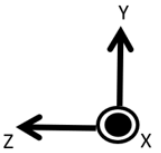


X-Z plan

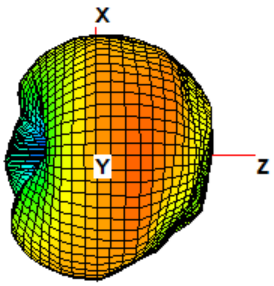
Y-Z plan

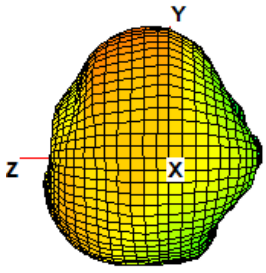
ANT1 820MHz

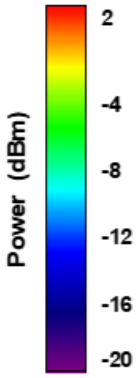




X-Y plan



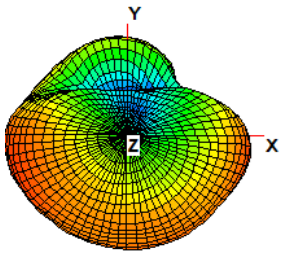


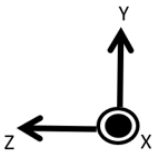


X-Z plan

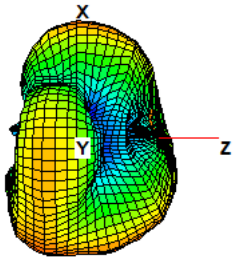
Y-Z plan

ANT1 1850MHz

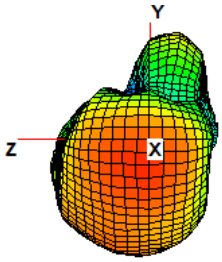




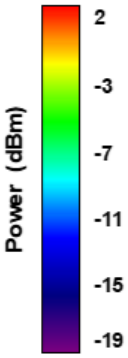
X-Y plan



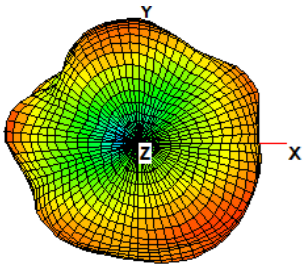
X-Z plan

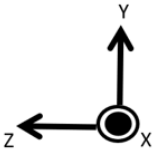


Y-Z plan

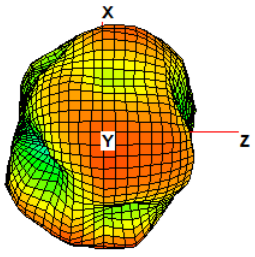


ANT1 2500MHz

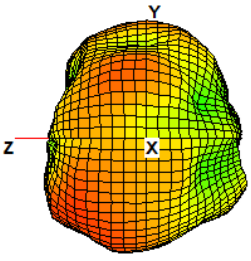




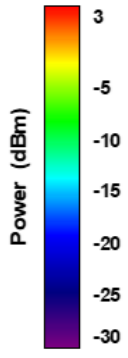
X-Y plan



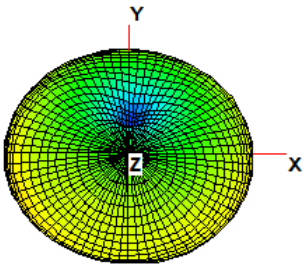
X-Z plan

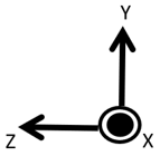


Y-Z plan

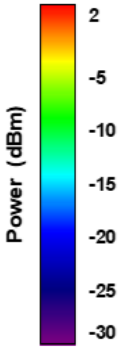


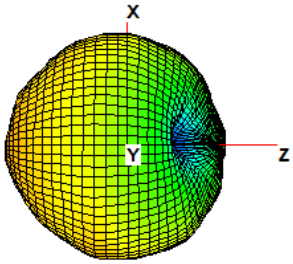
ANT1 4400MHz





X-Y plan





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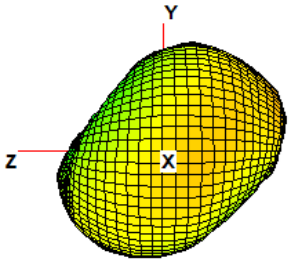
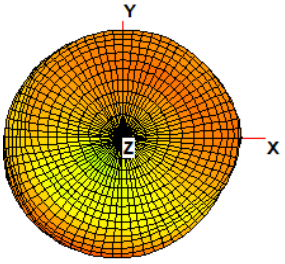
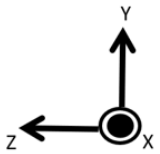


Y-Z plan

ANT2 820MHz





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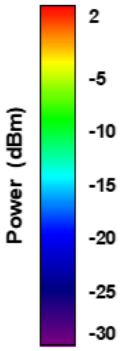

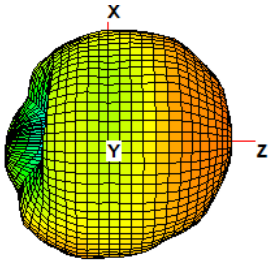

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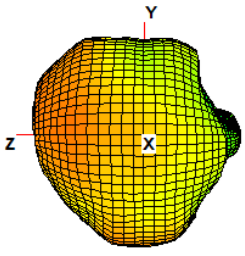
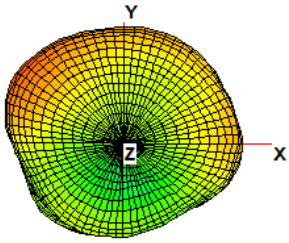
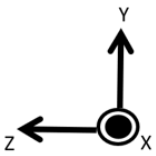


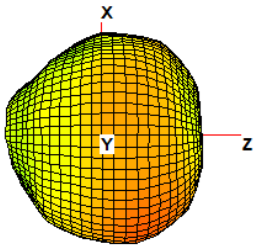
Y-Z plan

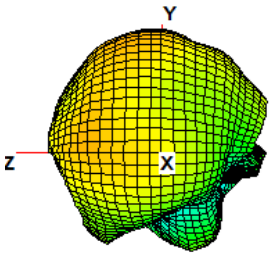
ANT2 1850MHz

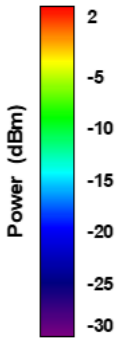




X-Y plan



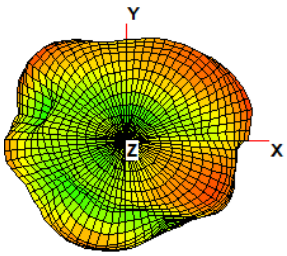


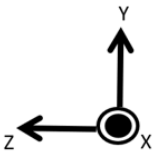


X-Z plan

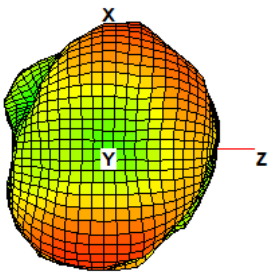
Y-Z plan

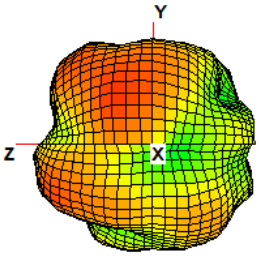
ANT2 2500MHz

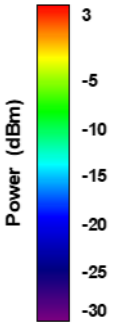




X-Y plan

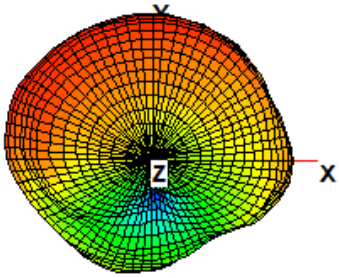


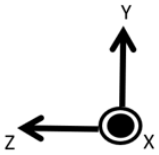




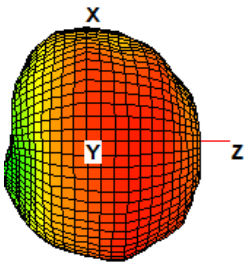
X-Z plan Y-Z plan

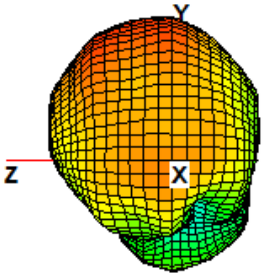
ANT2 4400MHz

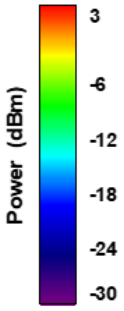




X-Y plan

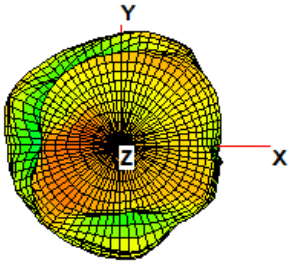


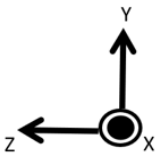




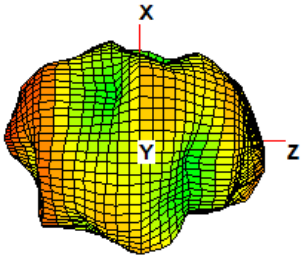
X-Z plan Y-Z plan

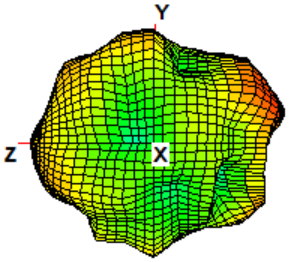
ANT3 2440MHz

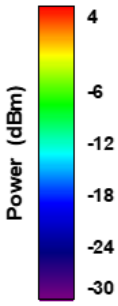




X-Y plan

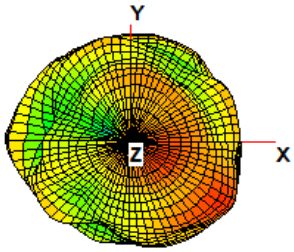


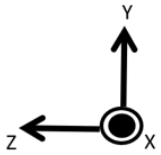




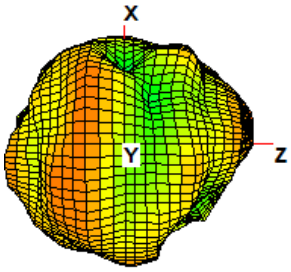
X-Z plan Y-Z plan

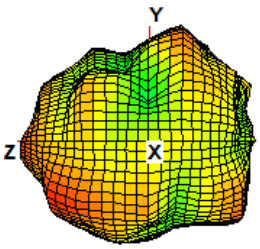
ANT3 5500MHz

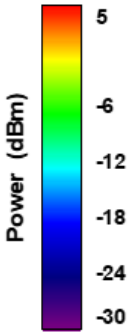




X-Y plan

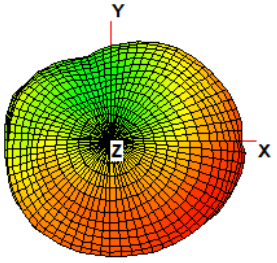


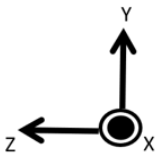




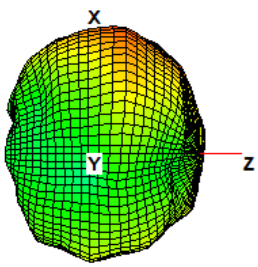
X-Z plan Y-Z plan

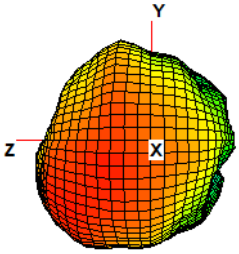
ANT3 6400MHz

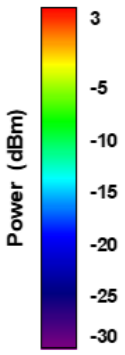




X-Y plan

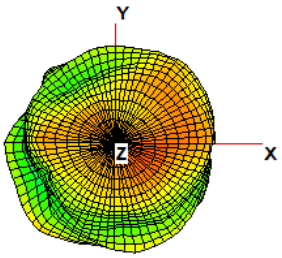


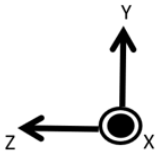




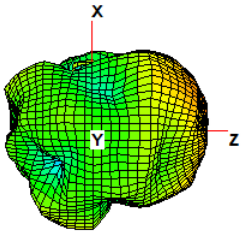
X-Z plan Y-Z plan

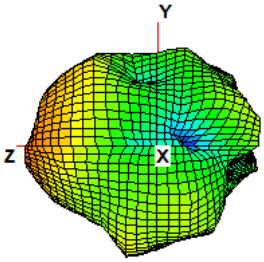
ANT4 2440MHz

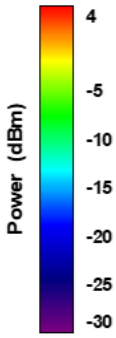




X-Y plan

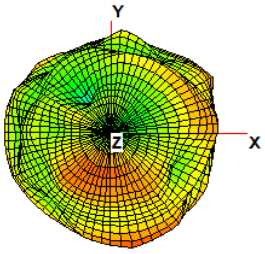


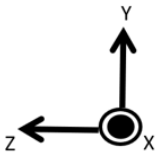




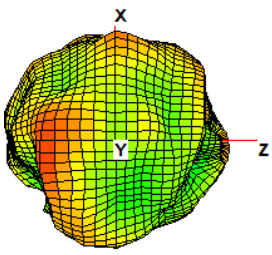
X-Z plan Y-Z plan

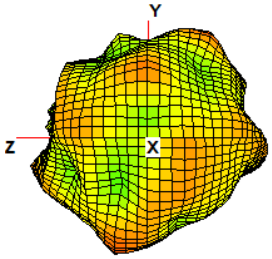
ANT4 5500MHz

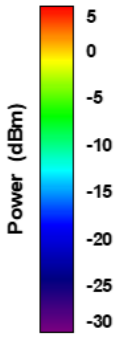




X-Y plan

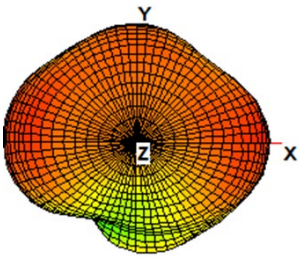


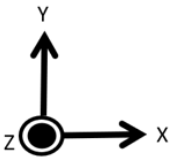


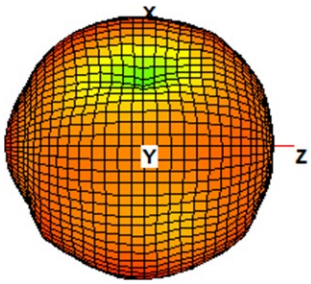


X-Z plan Y-Z plan

ANT4 6400MHz

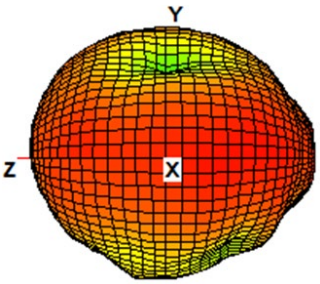


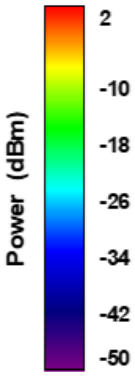




-Y plan

X

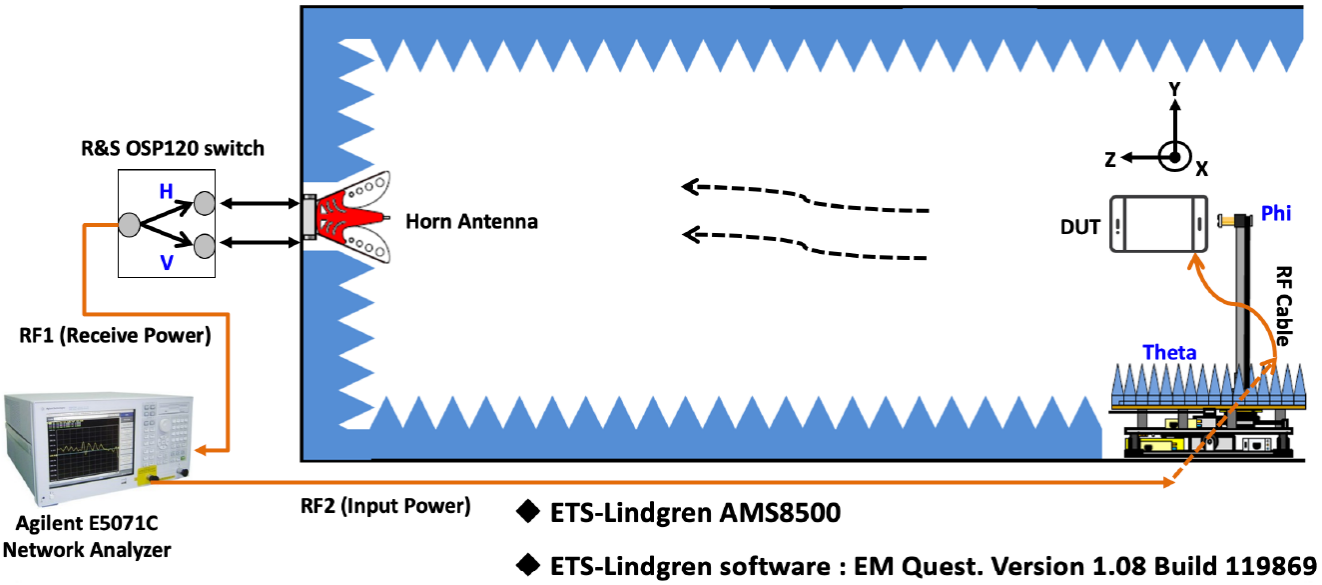




X-Z plan Y-Z plan

ANT6 1575MHz

3. Antenna Gain Measurement



The list of test equipment and software used are as follows :

- ETS-Lindgren fully anechoic antenna test chamber
- Agilent E5071C Network analyzer
- ETS-Lindgren software: EM Quest software version 1.08 Build 119869