

SPECIFICATION

X800 Pro Antenna

Model number:X800

Type number:S1001/S1003

Product approval sheet

Customer		Band	5G
Project	X800	Colour	Black

Customer check:

Reach requirement of customer: ☒OK ☐NG

Manufacturer: Shenzhen Sanhao wireless communication Co., LTD

Address: 501-508, Jinfulai Building, 49-1 Dabao Road, Baoan District, Shenzhen, China

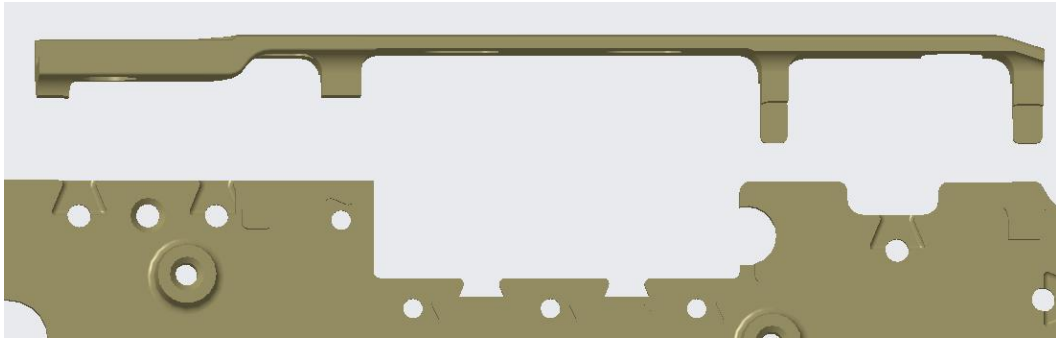
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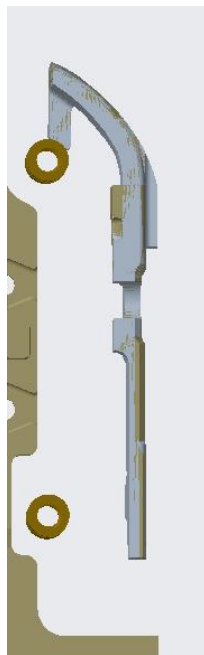
1 General description

1.1 Antenna appearing diagram

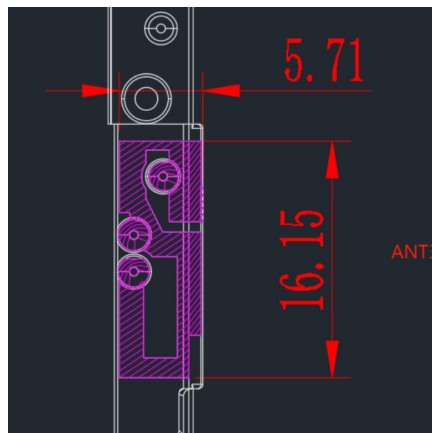
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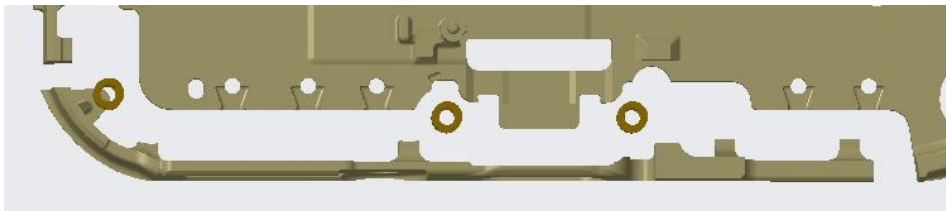
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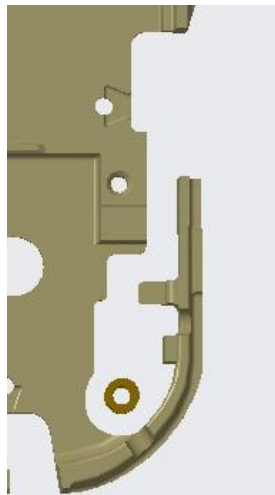
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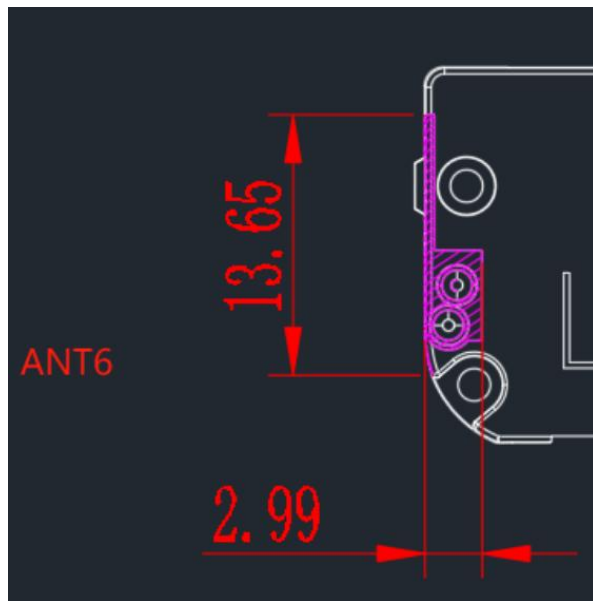
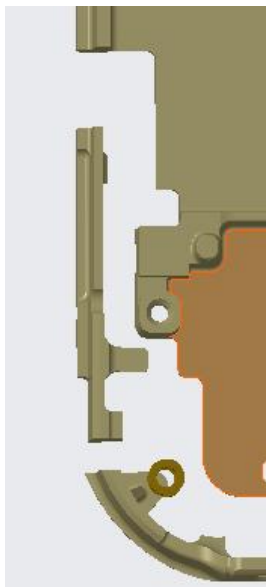
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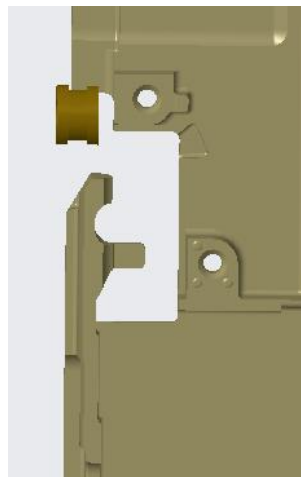
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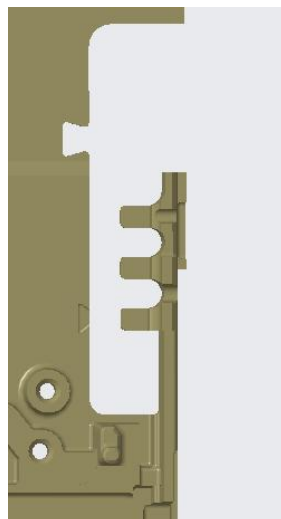
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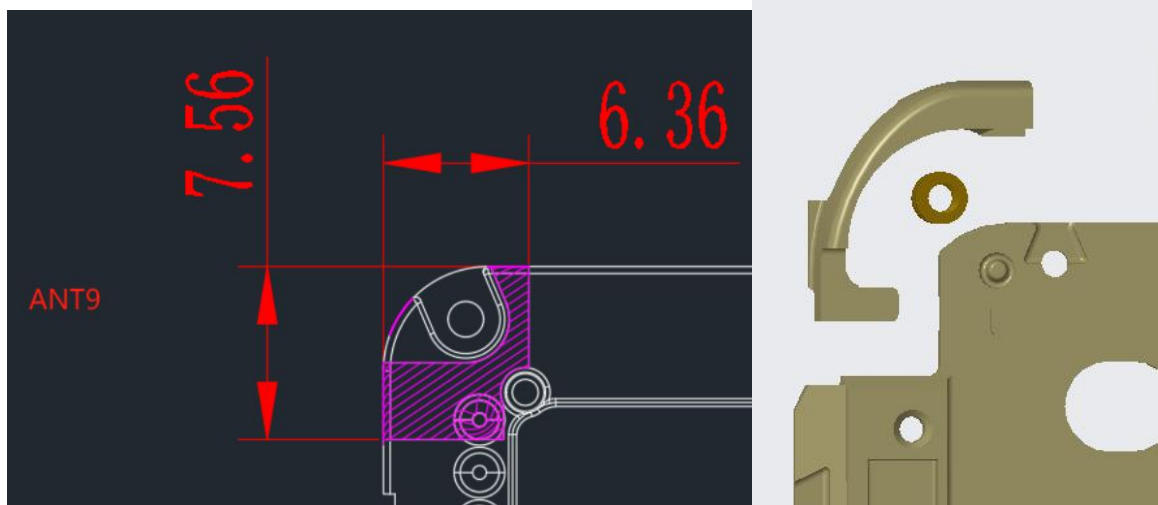
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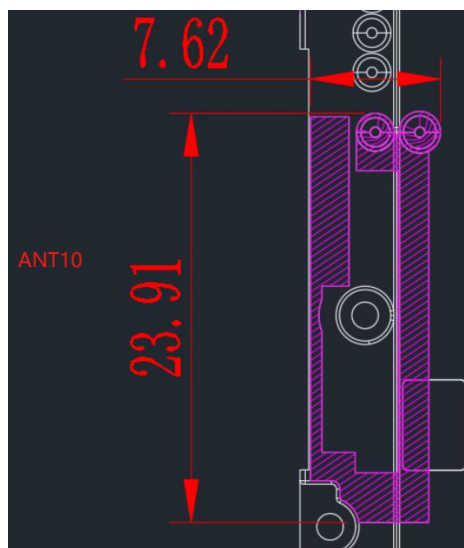
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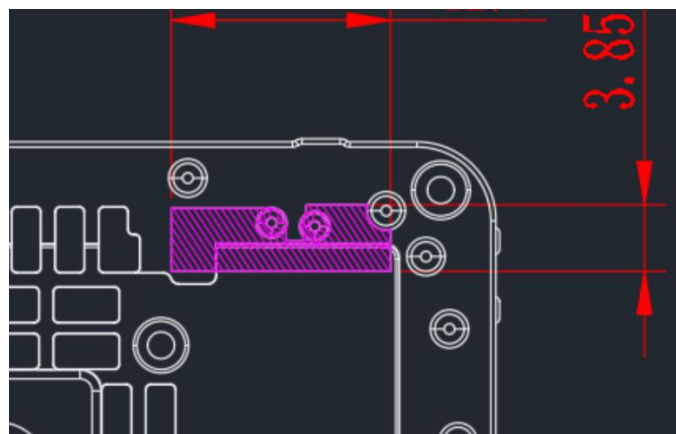
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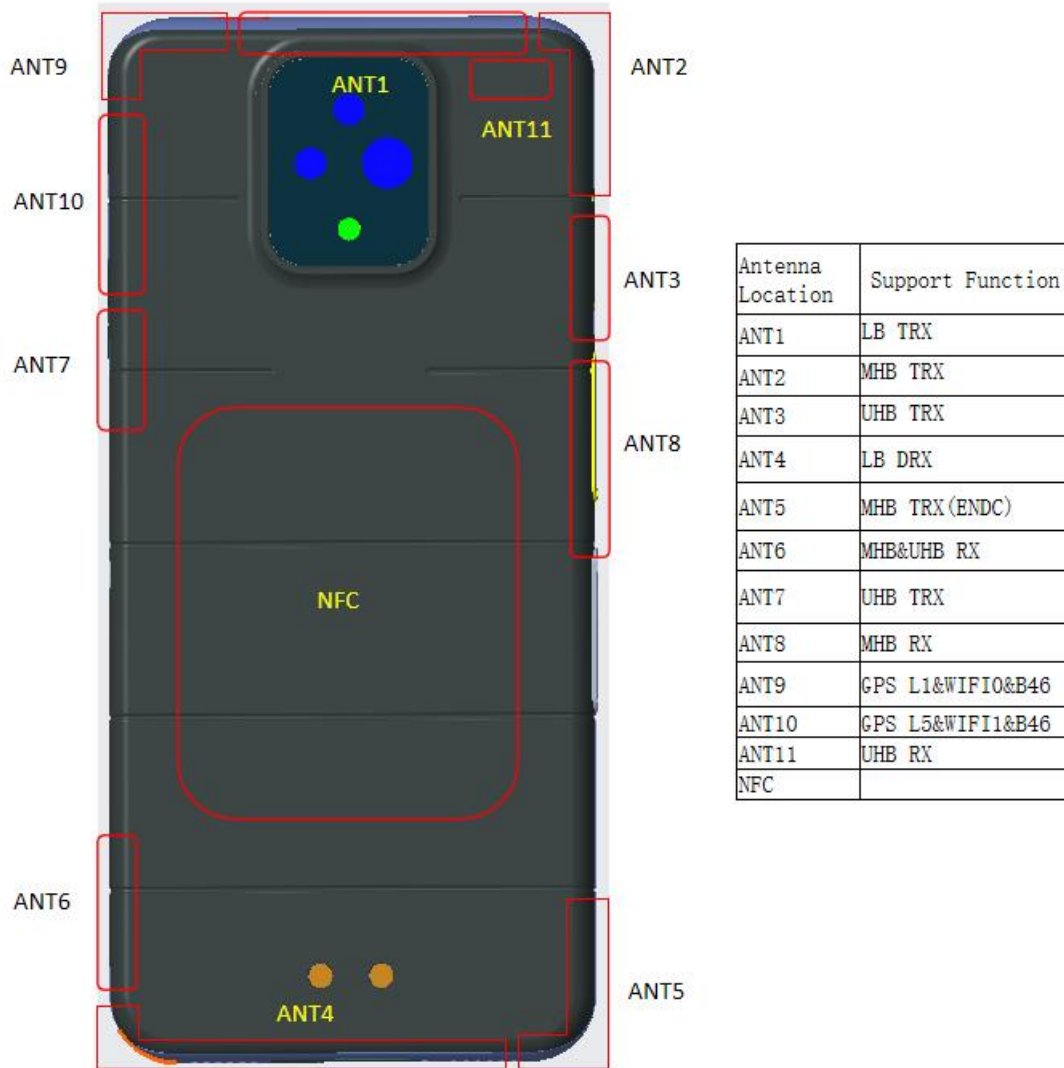
ANT10



ANT11



1.2 Antenna location

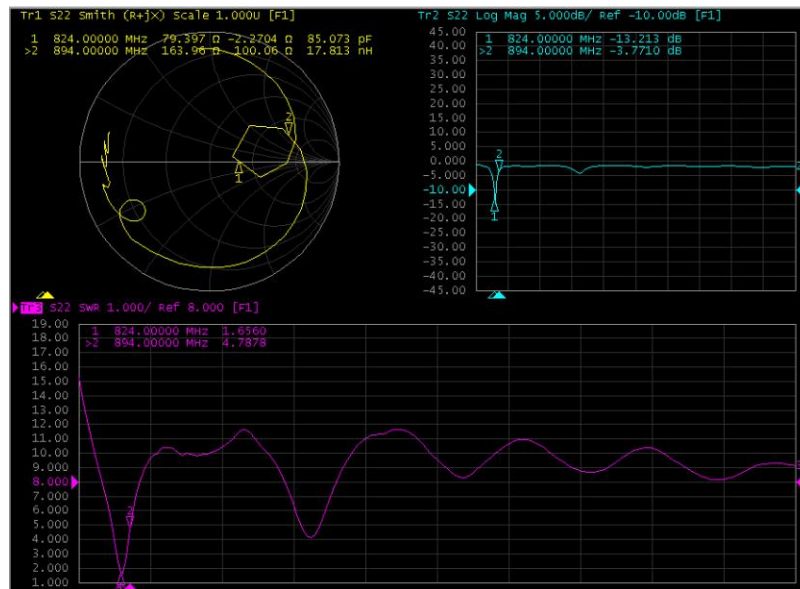


Antenna	Support Band
Ant 1	G850/900;W5/8;LTE5/8/12/13/14/18/20/26/28/29/71;N5/14/20/26/28/71
Ant 2	DCS/PCS;W1/2/4;LTE1/2/3/4/7/25/30/38/39/40/41/66;N1/2/3/7/25/30/38/40/41/66/70
Ant 3	LTE42/43/48;N48/77/78
Ant 4	G850/900;W5/8;LTE5/8/12/13/14/18/20/26/28/29/71;N5/14/20/26/28/71
Ant 5	DCS/PCS;W1/2/4;LTE1/2/3/4/7/25/30/38/39/40/41/66;N1/2/3/7/25/30/38/40/41/66/70
Ant 6	DCS/PCS;W1/2/4;LTE1/2/3/4/7/25/30/38/39/40/41/66;N1/2/3/7/25/30/38/40/41/66/70;LTE42/43/48;N48/77/78
Ant 7	LTE42/43/48;N48/77/78
Ant 8	DCS/PCS;W1/2/4;LTE1/2/3/4/7/25/30/38/39/40/41/66;N1/2/3/7/25/30/38/40/41/66/70
Ant 9	GPS L1/WIFI2.4/5G/B46
Ant 10	GPS L5/WIFI2.4/5G/B46
Ant 11	LTE42/43/48;N48/77/78

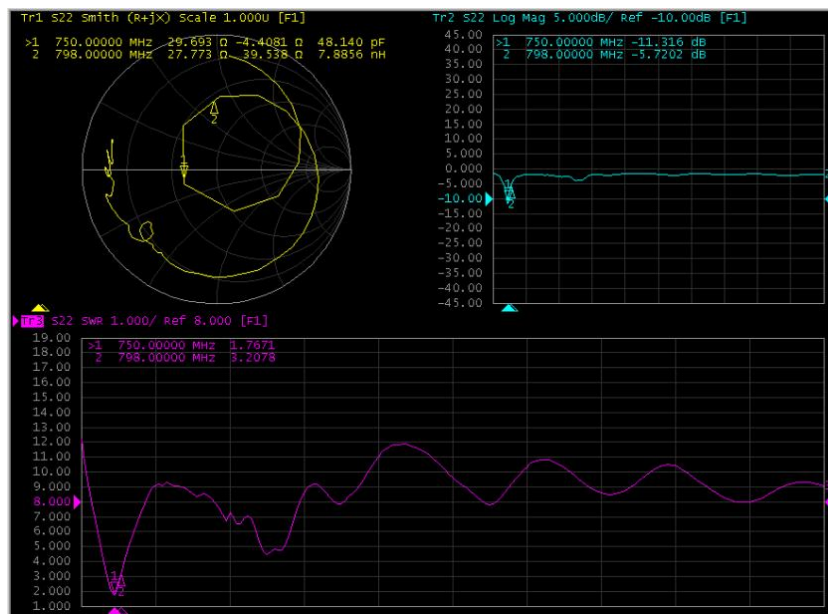
2 Electrical performance

2.1 VSWR

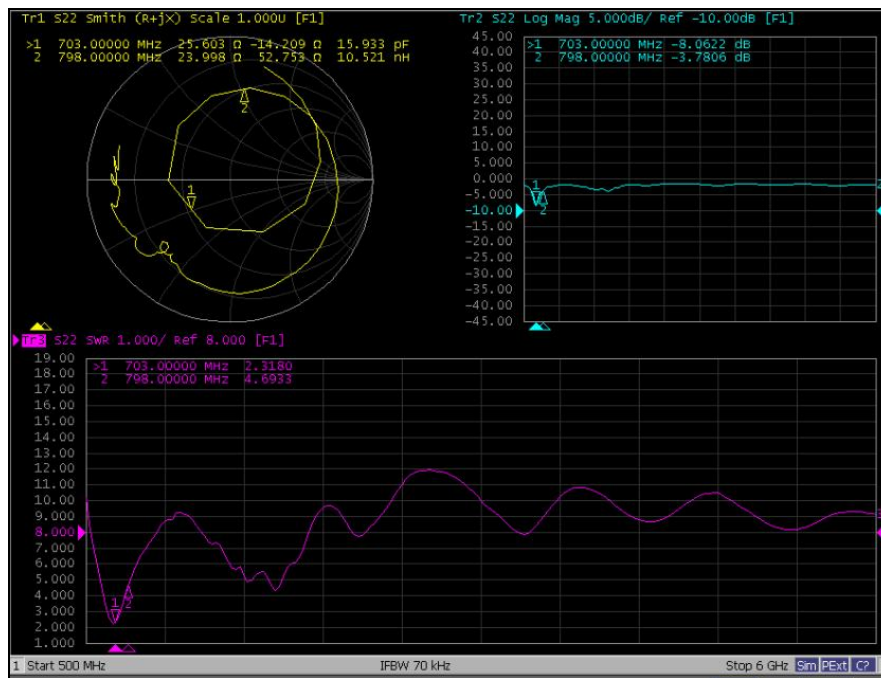
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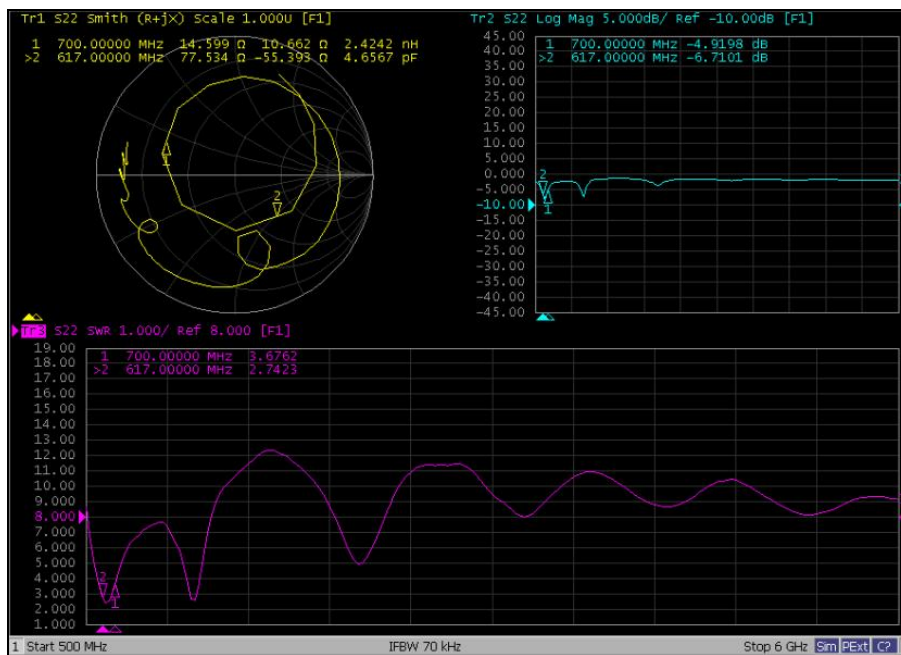
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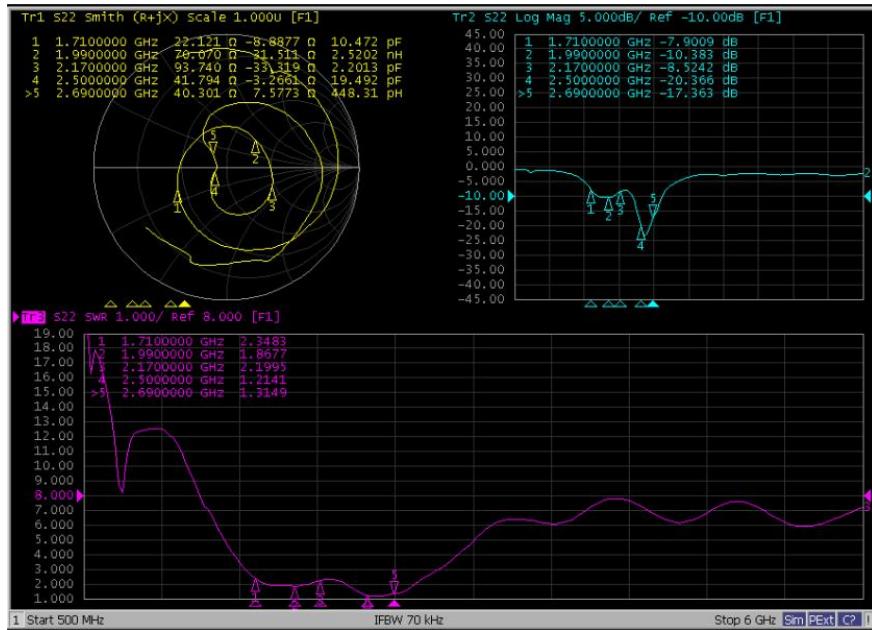
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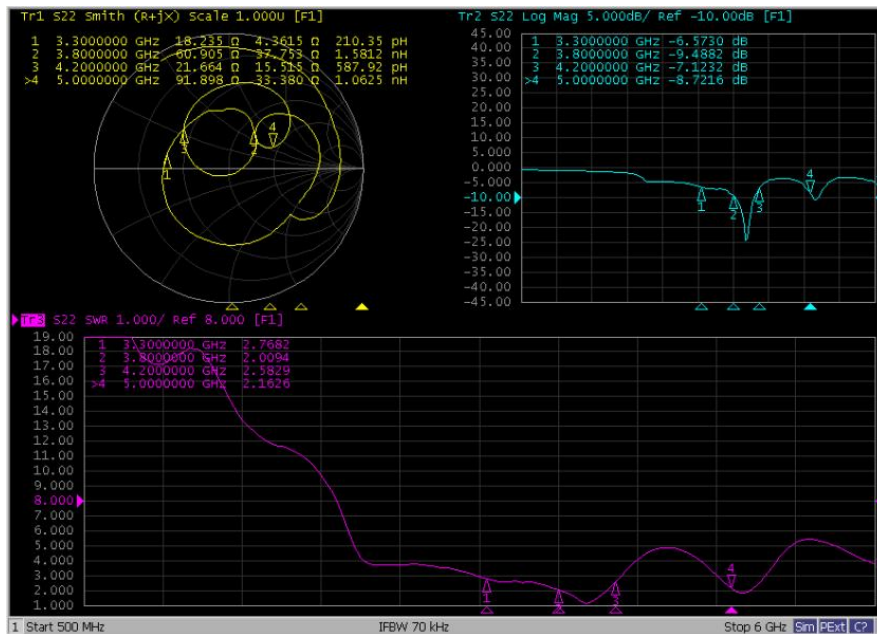
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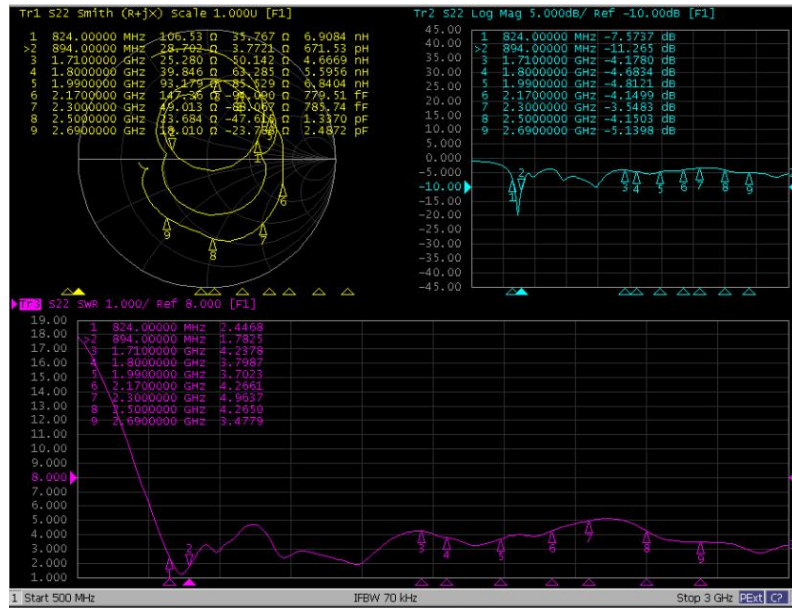
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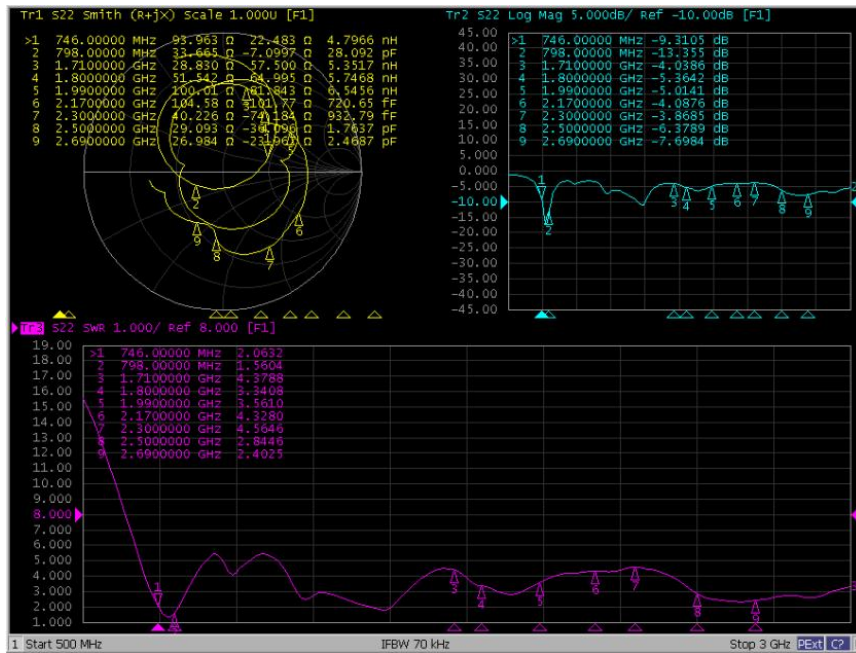
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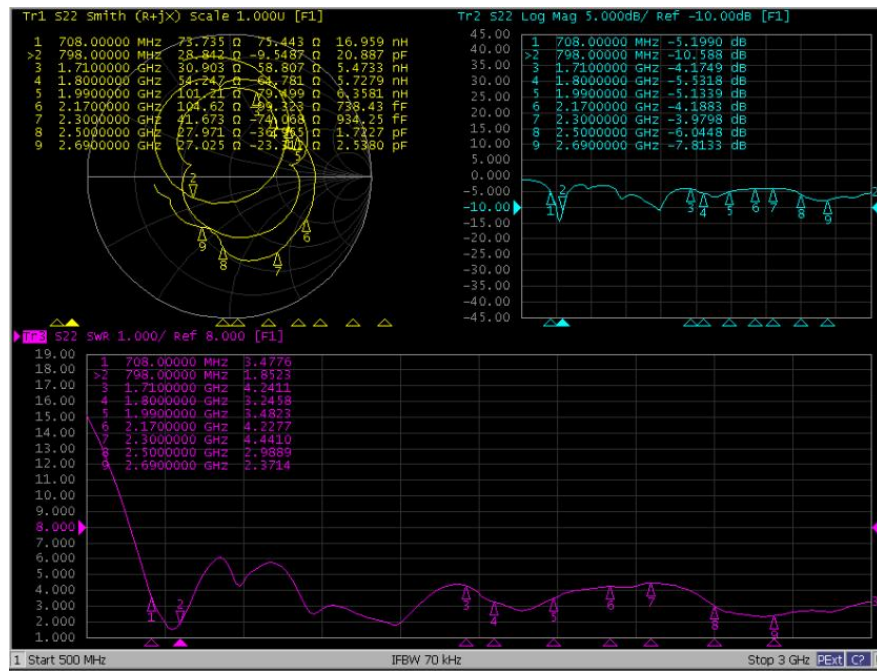
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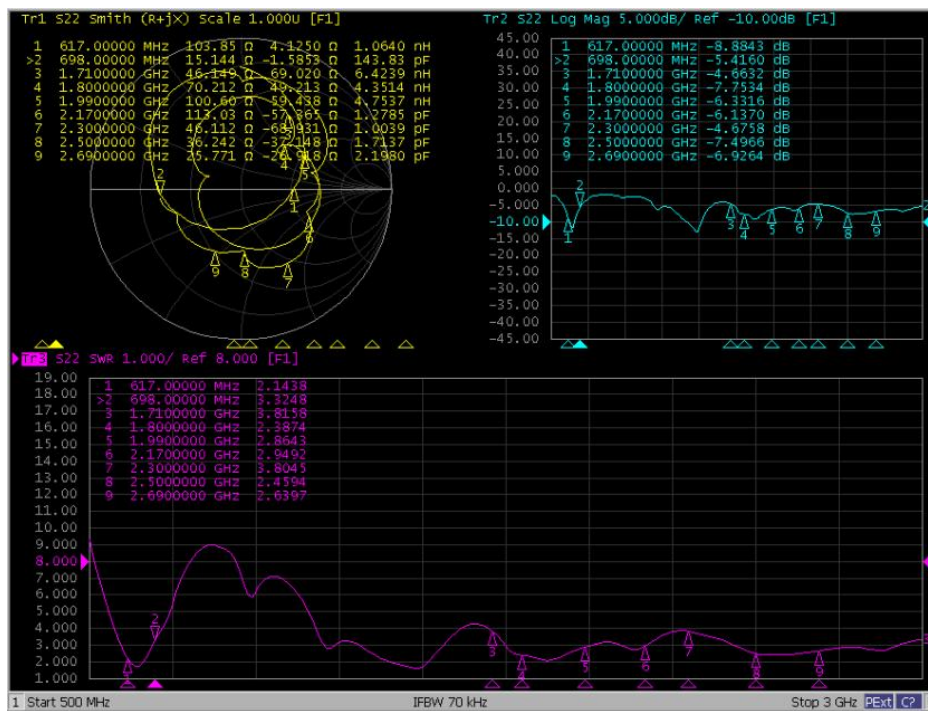
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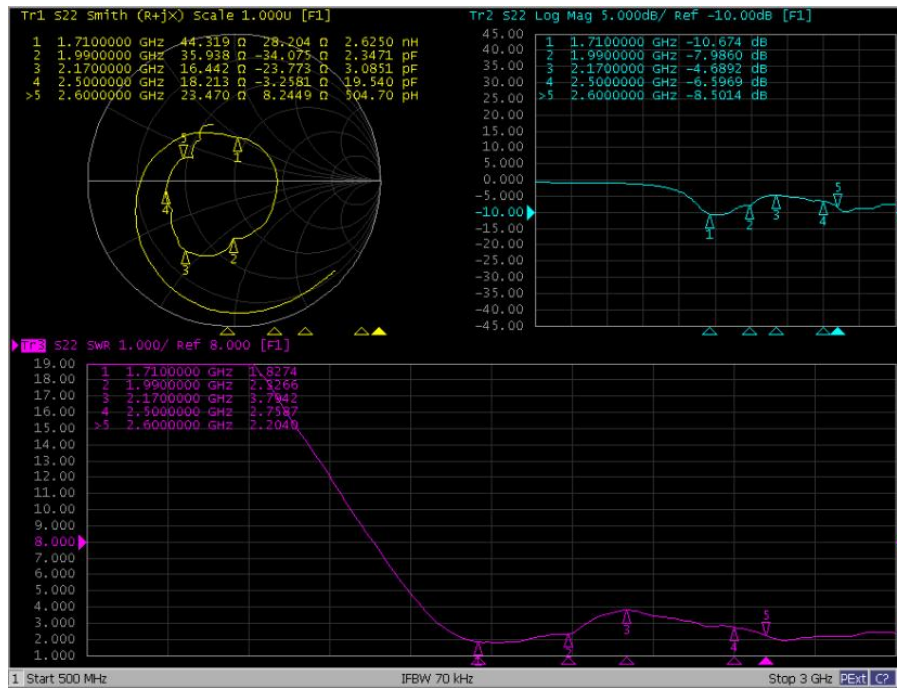
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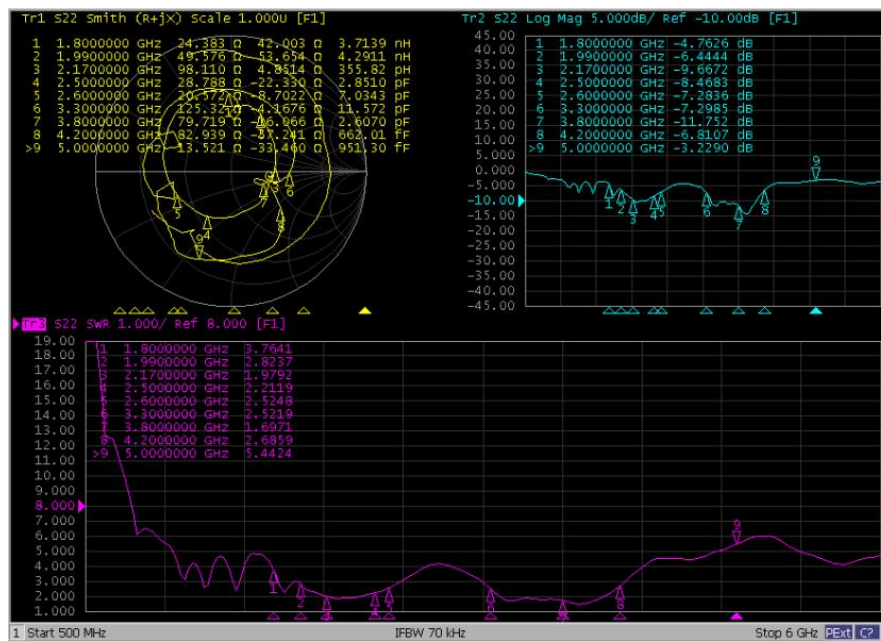
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ANT5



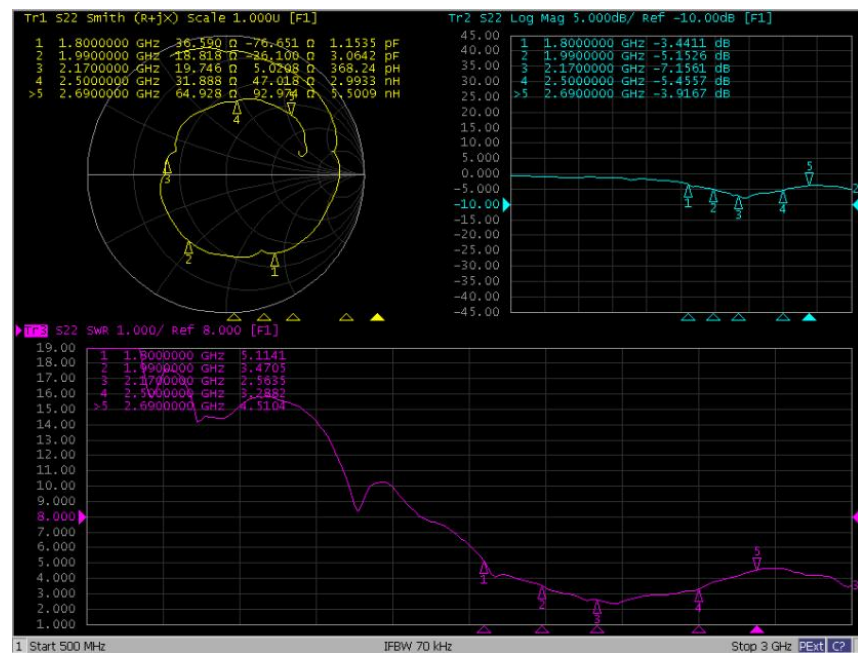
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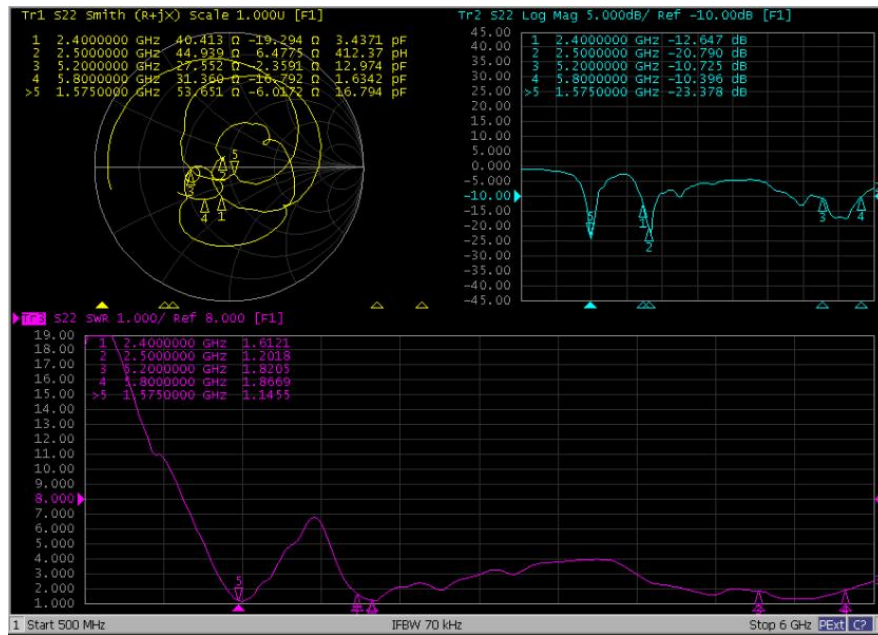
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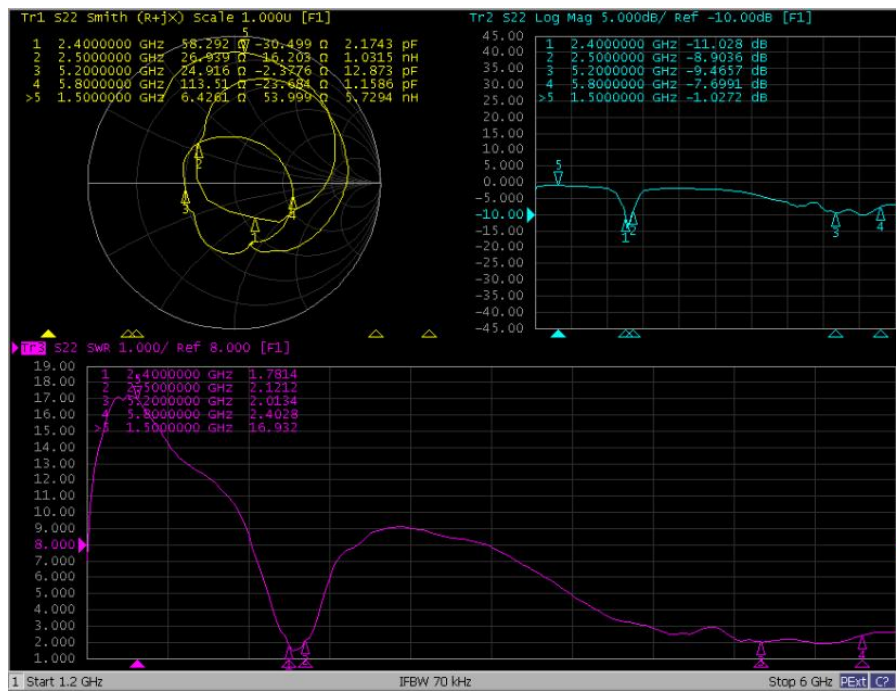
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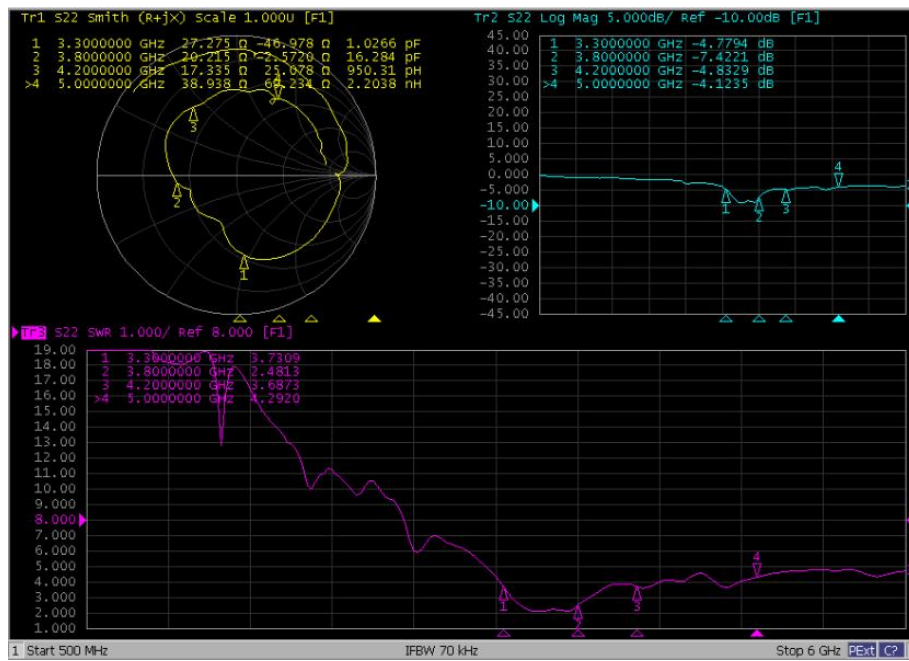
ANT9



ANT10



ANTO



2.2 Gain

ANT9

Freq (MHz)	Gain (dBi)
2400	0.15
2410	-0.22
2420	0.43
2430	0.73
2440	0.21
2450	0.57
2460	0.86
2470	0.45
2480	1.11
2490	1.63
2500	1.58

Freq (MHz)	Gain (dBi)
5150	-1.44
5160	-1.75
5170	-1.93
5180	-1.94
5190	-1.98
5200	-1.93
5210	-1.97
5220	-2.04
5230	-2.05
5240	-2.51
5250	-2.59
5260	-2.41
5270	-2.11
5280	-1.69
5290	-1.26
5300	-1.15
5310	-1.03
5320	-0.69
5330	-0.74
5340	-0.46
5350	-0.45

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5360	-0.87
5370	-0.94
5380	-0.86
5390	-1.3
5400	-0.76
5410	-1.07
5420	-1.02
5430	-1.22
5440	-1.31
5450	-1.23
5460	-1.36
5470	-1.24
5480	-1.52
5490	-1.38
5500	-1.36
5510	-1.19
5520	-0.92
5530	-0.77
5540	-0.46
5550	-0.77
5560	-0.6
5570	-0.58
5580	-0.38
5590	-0.7
5600	-0.68
5610	-0.84
5620	-0.9
5630	-1
5640	-1.06
5650	-1.43
5660	-1.36
5670	-1.7
5680	-1.64
5690	-1.84
5700	-1.92
5710	-1.89
5720	-2.25
5730	-2.27
5740	-2.2
5750	-2.07
5760	-2.74
5770	-2.71
5780	-2.96
5790	-2.87

Confidential Information

5800	-3.09
5810	-3.29
5820	-3.31
5830	-3.22
5840	-3.43
5850	-2.94

Freq (MHz)	Gain (dBi)
5800	-3.23
5820	-2.95
5840	-2.74
5860	-2.74
5880	-2.74
5900	-2.71
5920	-2.53
5940	-2.54
5960	-2.88
5980	-2.79
6000	-2.95
6020	-3.07
6040	-2.98
6060	-3.2
6080	-3.27
6100	-3.3
6120	-3.85
6140	-4.03
6160	-3.53
6180	-3.99
6200	-3.73
6220	-3.74
6240	-4.19
6260	-3.98
6280	-4.01
6300	-4.2
6320	-3.94
6340	-3.81
6360	-4.07
6380	-3.63
6400	-3.49
6420	-3.83
6440	-3.49
6460	-2.95

Confidential Information

6480	-3.47
6500	-3.55
6520	-2.99
6540	-2.95
6560	-2.67
6580	-2.61
6600	-2.69
6620	-2.43
6640	-2.35
6660	-2.51
6680	-2.11
6700	-2.03
6720	-1.81
6740	-1.36
6760	-1.62
6780	-1.45
6800	-1.29
6820	-1.58
6840	-1.69
6860	-1.72
6880	-1.68
6900	-1.41
6920	-1.49
6940	-2.21
6960	-1.77
6980	-1.89
7000	-2.53
7020	-2.25
7040	-2.25
7060	-2.38
7080	-2.24
7100	-3.05
7120	-3.17
7140	-2.55
7160	-2.84
7180	-3.23
7200	-2.93

ANT10

Freq (MHz)	Gain (dBi)
2400	-1.34
2410	-2.62
2420	-0.74
2430	-0.22
2440	-1.36
2450	-0.7
2460	0.02
2470	-1.34
2480	-0.26
2490	0.2
2500	0.66

Freq (MHz)	Gain (dBi)
5150	-1.92
5160	-1.94
5170	-1.71
5180	-1.73
5190	-1.39
5200	-1.39
5210	-1.04
5220	-1.14
5230	-0.85
5240	-0.84
5250	-0.66
5260	-0.47
5270	-0.23
5280	-0.1
5290	0.08
5300	0.08
5310	0.1

Confidential Information

5320	0.59
5330	0.65
5340	0.63
5350	0.91
5360	0.8
5370	0.88
5380	0.81
5390	0.68
5400	1.5
5410	1.33
5420	1.46
5430	1.29
5440	1.33
5450	1.2
5460	1.37
5470	1.12
5480	1.03
5490	0.89
5500	0.94
5510	1.07
5520	1.14
5530	1.13
5540	1.29
5550	1.03
5560	0.76
5570	0.53
5580	0.21
5590	-0.11
5600	0.07
5610	0.21
5620	-0.17
5630	0.24
5640	0.31
5650	0.45
5660	0.52
5670	0.44
5680	0.5
5690	0.45
5700	0.48
5710	0.53
5720	0.65
5730	0.84
5740	1.05
5750	1.3

Confidential Information

5760	1.19
5770	1.15
5780	0.93
5790	0.9
5800	0.85
5810	0.51
5820	0.63
5830	0.21
5840	-0.08
5850	-0.16

Freq (MHz)	Gain (dBi)
5800	0.11
5820	-0.33
5840	-0.26
5860	-0.43
5880	-0.62
5900	-0.7
5920	-0.72
5940	-0.58
5960	-0.16
5980	-0.36
6000	-0.32
6020	-0.36
6040	-0.72
6060	-0.68
6080	-0.74
6100	-0.79
6120	-0.77
6140	-1.02
6160	-0.69
6180	-0.93
6200	-0.93
6220	-1.02
6240	-1.29
6260	-1.34
6280	-1.31
6300	-1.57
6320	-1.44
6340	-1.41
6360	-1.85
6380	-1.38

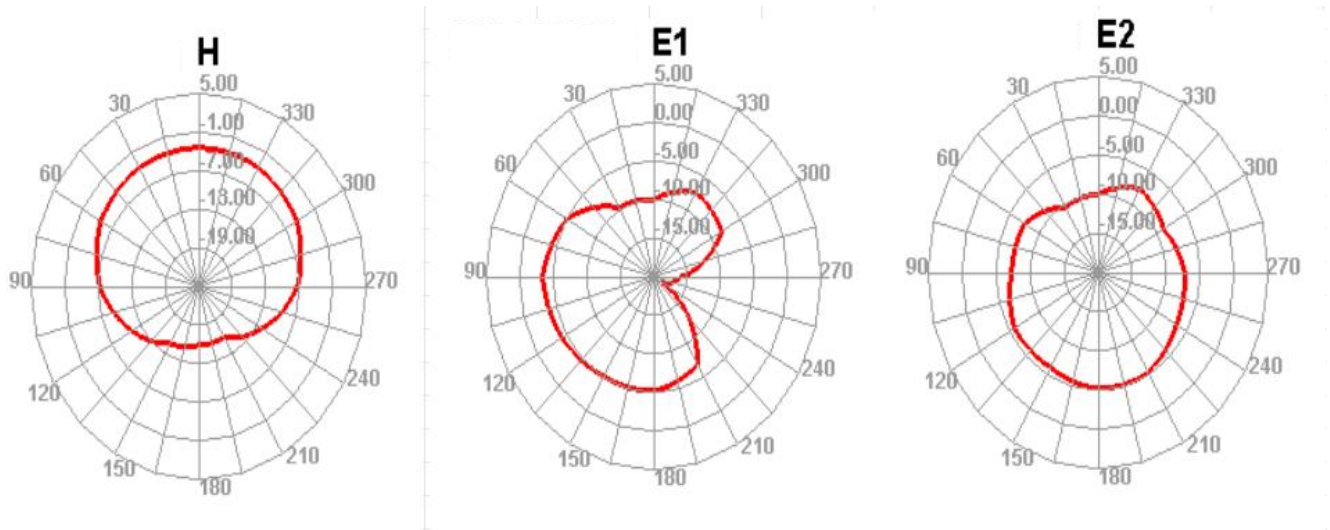
Confidential Information

6400	-1.16
6420	-1.48
6440	-1.04
6460	-0.15
6480	-0.4
6500	-0.21
6520	0.07
6540	0.27
6560	0.69
6580	0.95
6600	0.92
6620	1.18
6640	1.16
6660	1.19
6680	1.34
6700	1.31
6720	1.17
6740	0.84
6760	0.64
6780	0.66
6800	0.05
6820	0.14
6840	0.16
6860	-0.25
6880	0.01
6900	-0.14
6920	-0.3
6940	0.24
6960	0.35
6980	0.33
7000	0.4
7020	0.54
7040	0.68
7060	0.74
7080	0.97
7100	0.97
7120	0.82
7140	1
7160	0.99
7180	0.56
7200	0.42

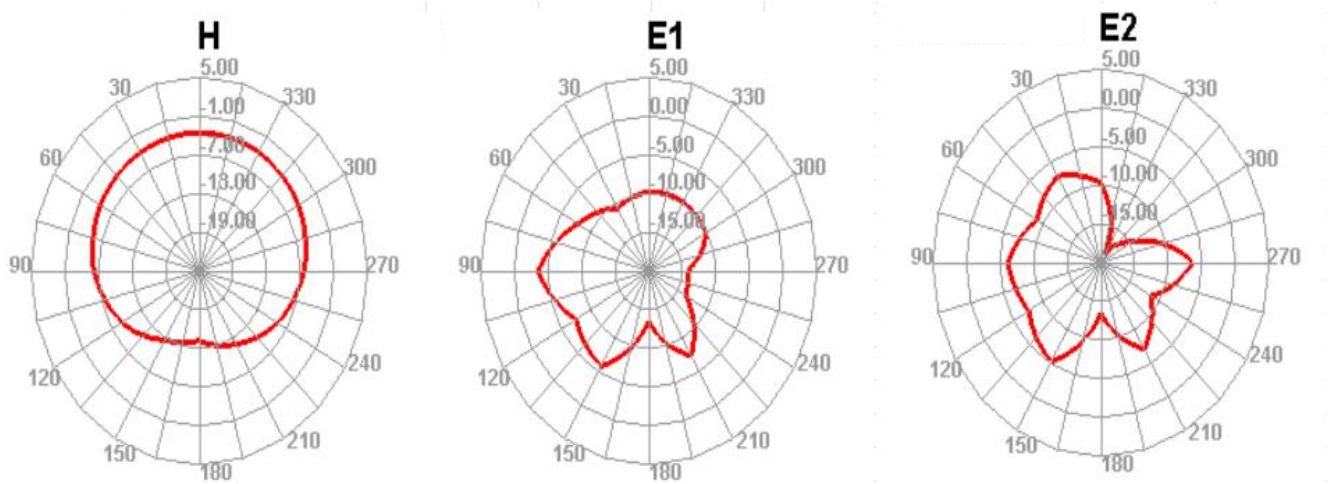
2.3 3D Pattern

ANT1

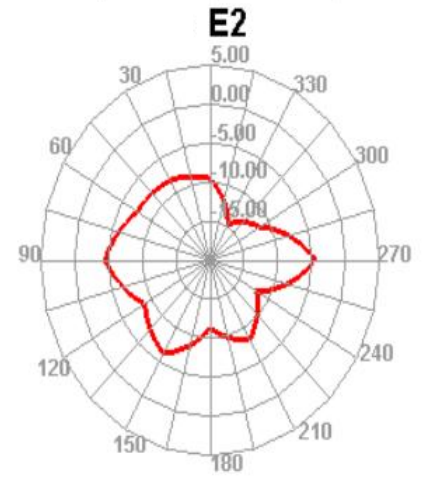
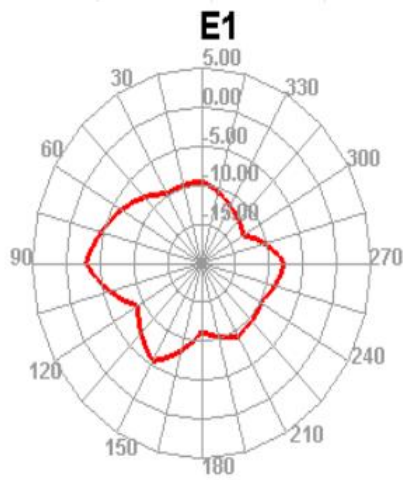
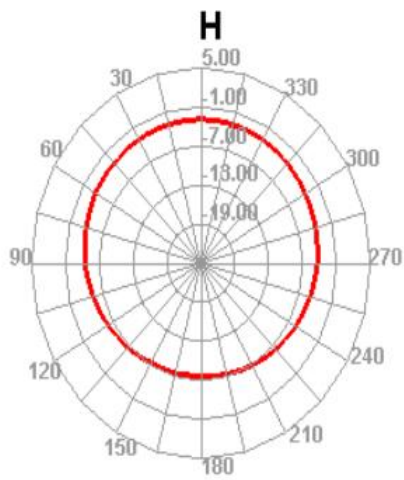
B5



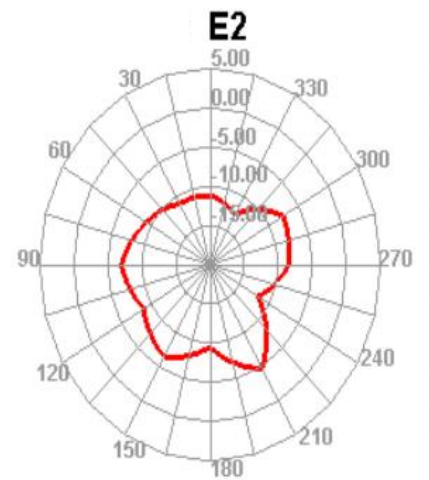
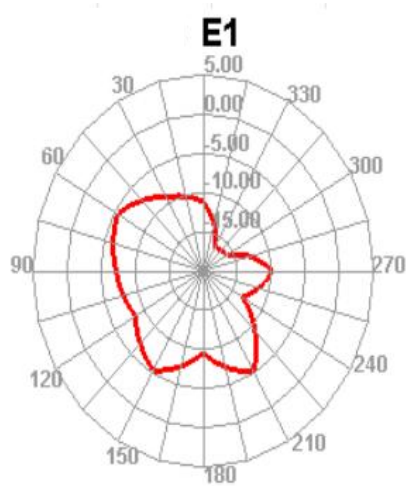
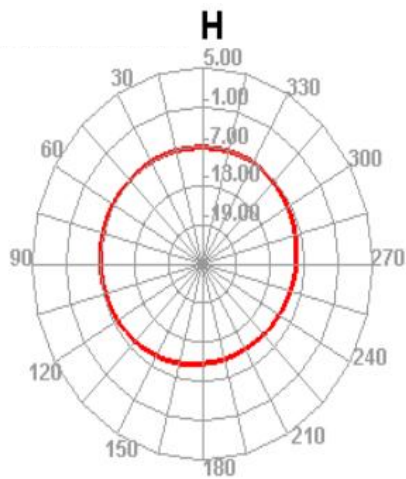
B14



B12

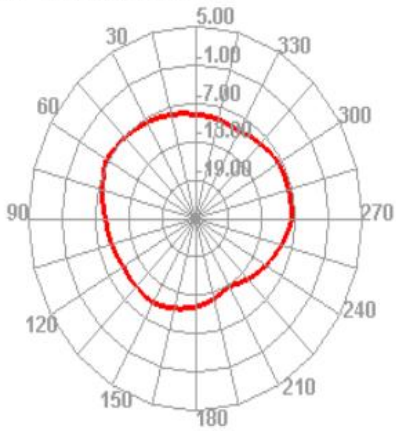


B71

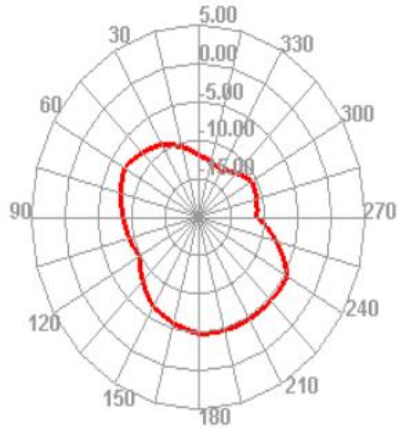


ANT2

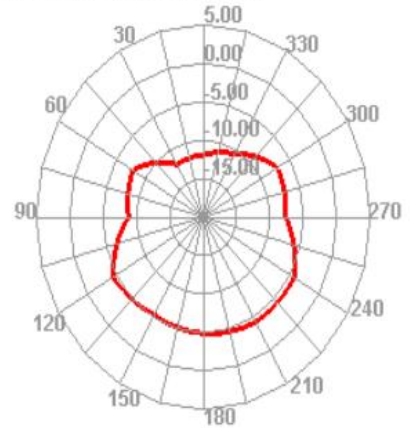
1710.000MHz H



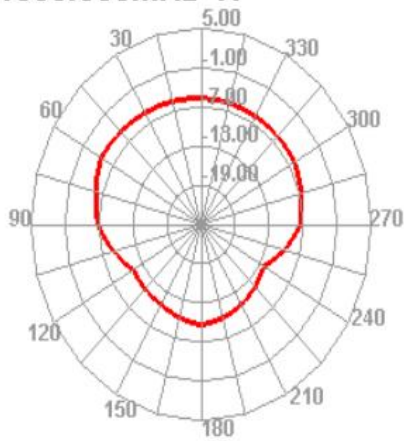
1710.000MHz E1



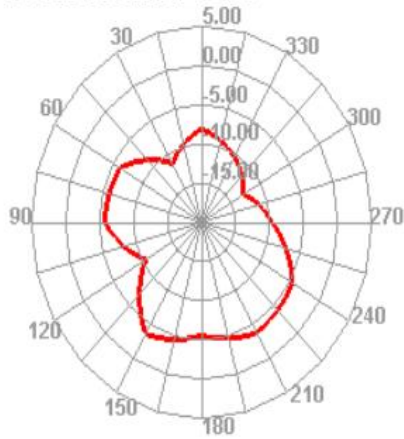
1710.000MHz E2



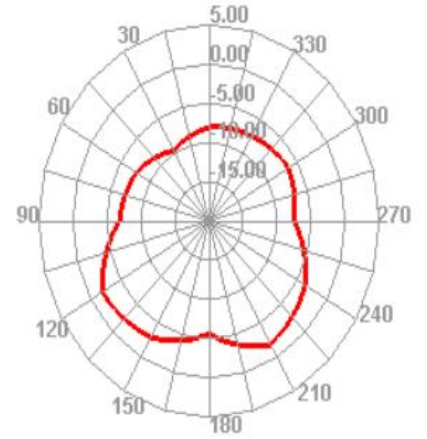
1800.000MHz H



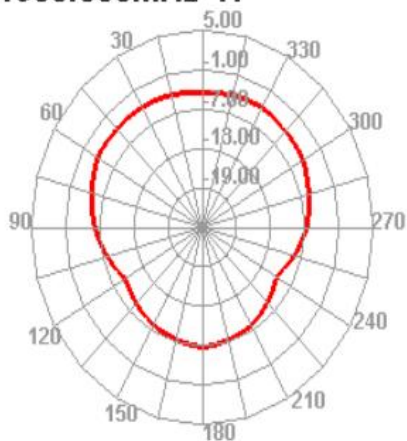
1800.000MHz E1



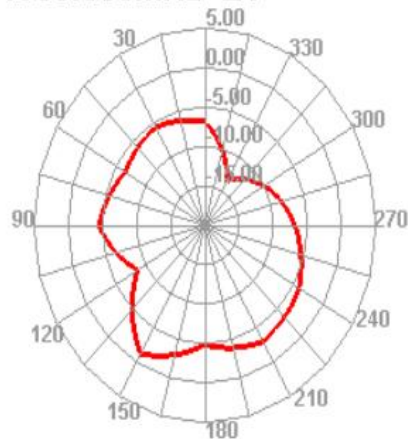
1800.000MHz E2



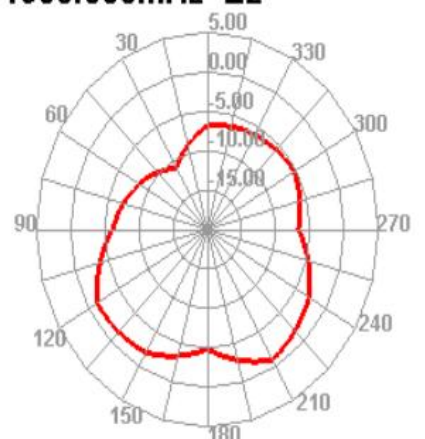
1900.000MHz H



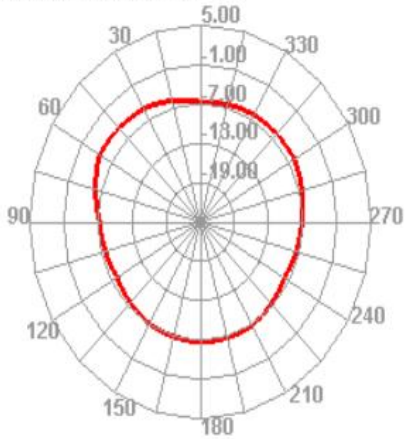
1900.000MHz E1



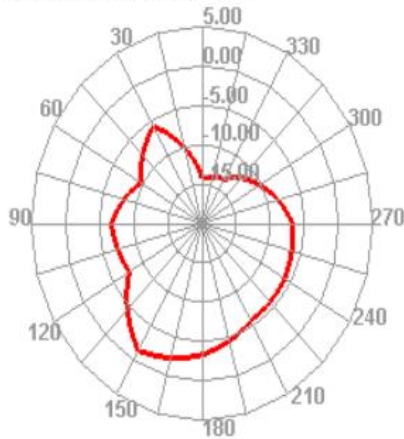
1900.000MHz E2



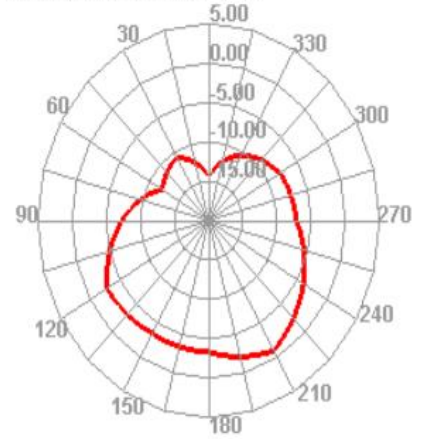
1990.000MHz H



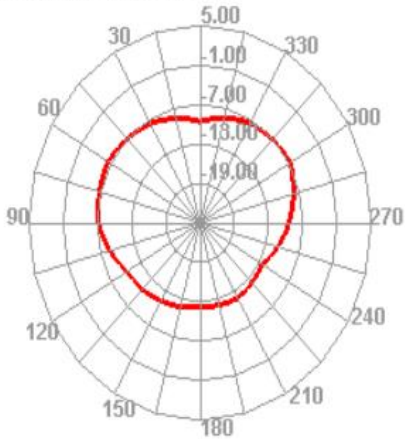
1990.000MHz E1



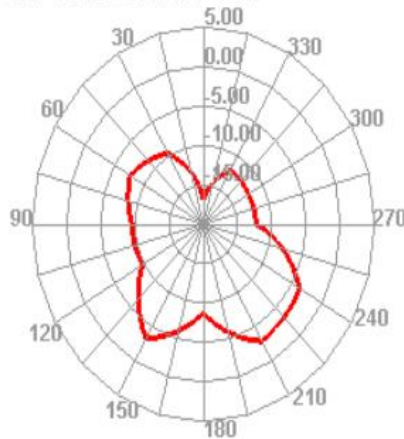
1990.000MHz E2



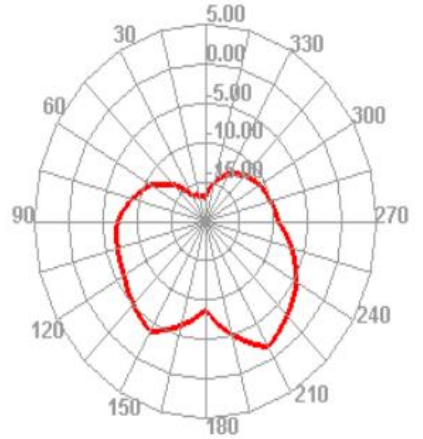
2170.000MHz H



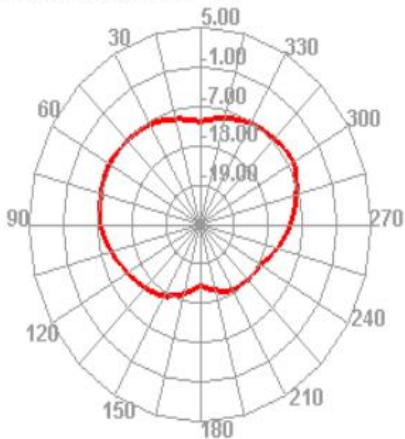
2170.000MHz E1



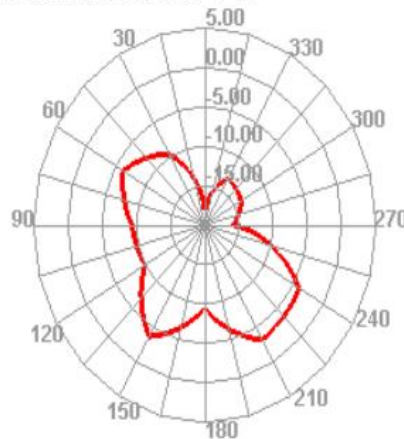
2170.000MHz E2



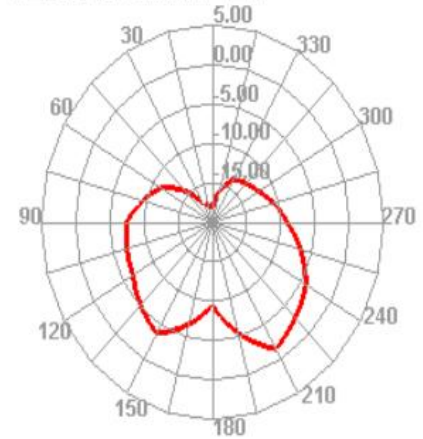
2200.000MHz H



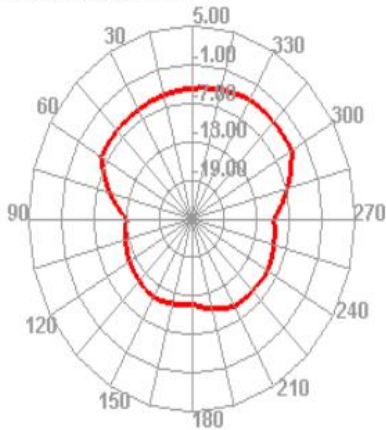
2200.000MHz E1



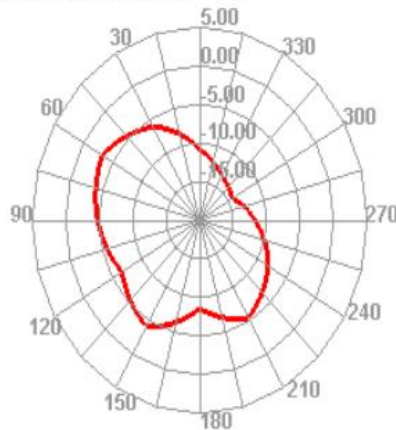
2200.000MHz E2



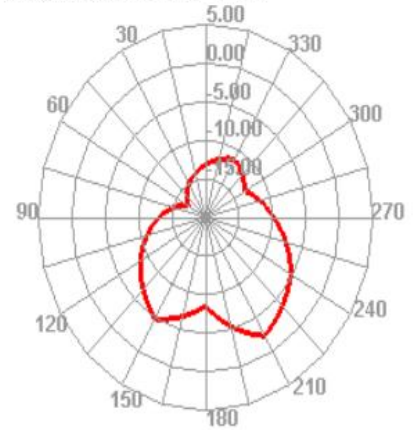
2350.000MHz H



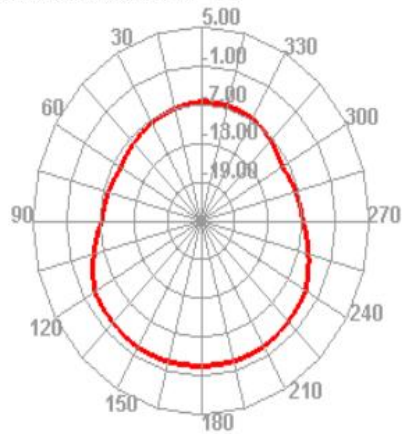
2350.000MHz E1



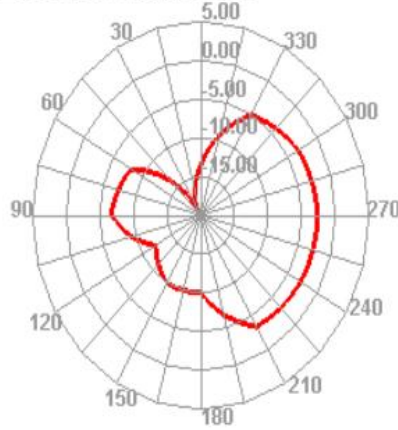
2350.000MHz E2



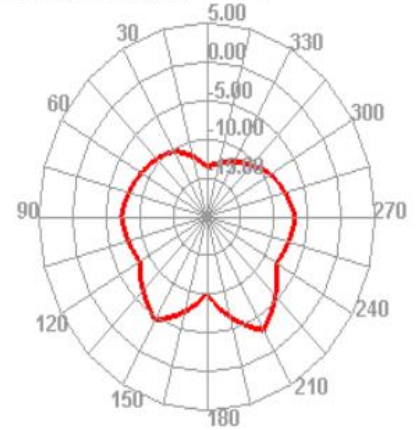
2500.000MHz H



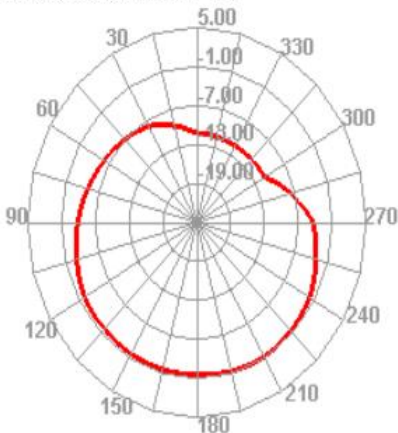
2500.000MHz E1



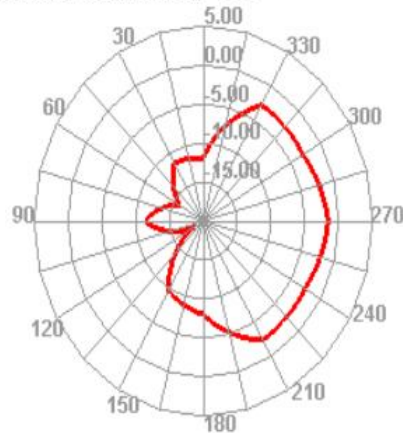
2500.000MHz E2



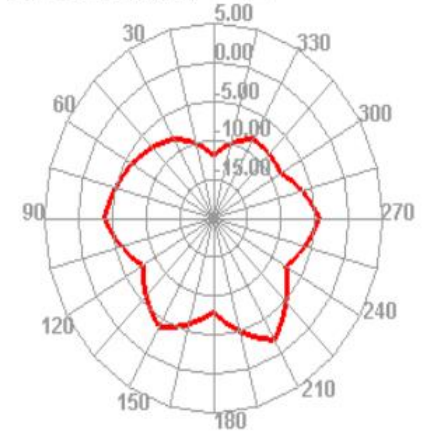
2600.000MHz H

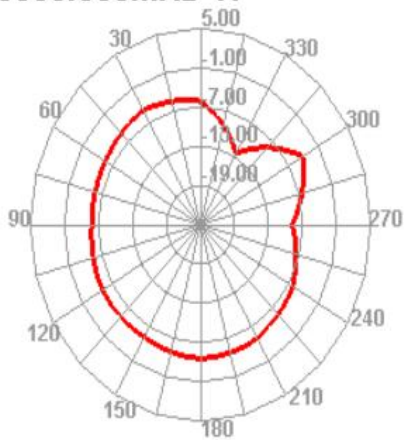
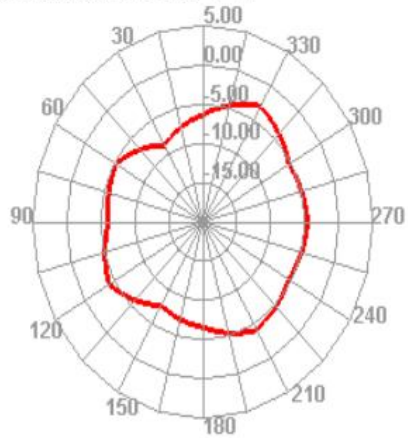
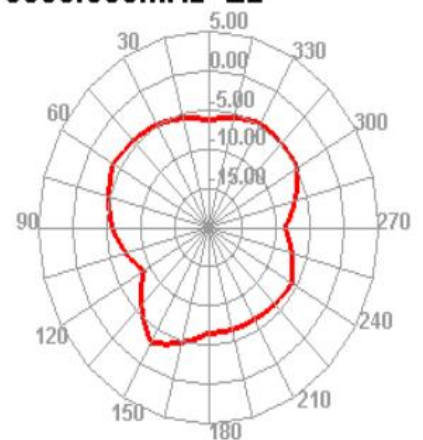
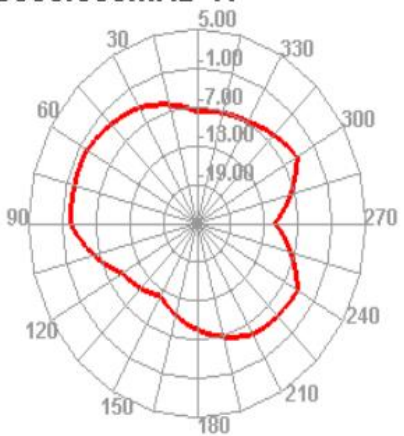
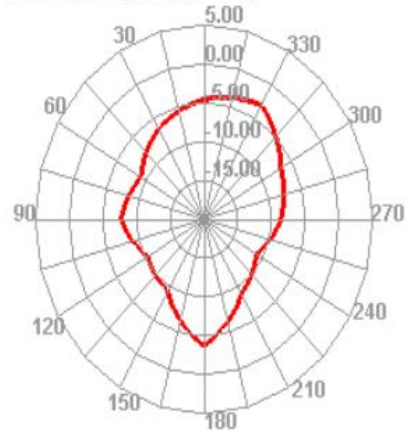
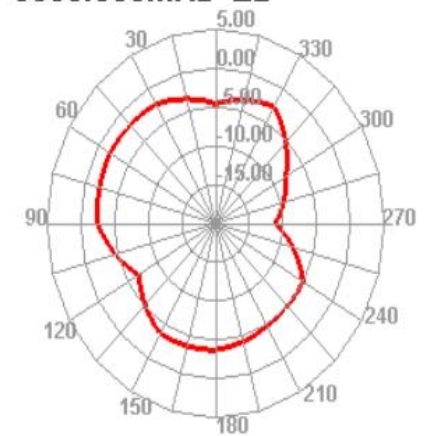
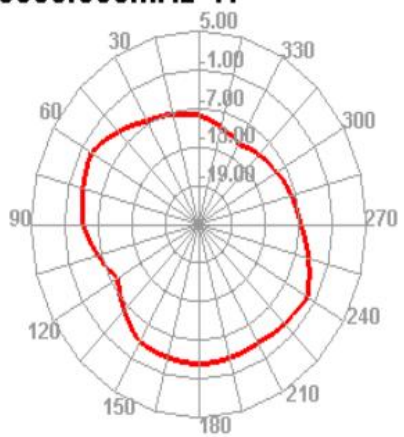
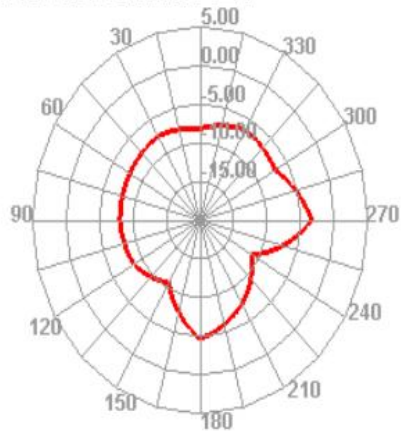
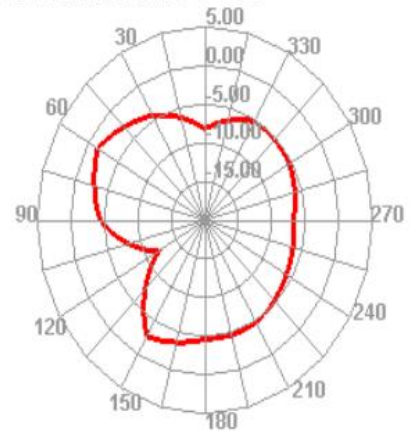


2600.000MHz E1

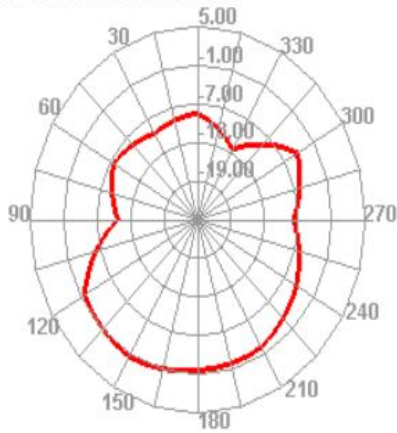


2600.000MHz E2

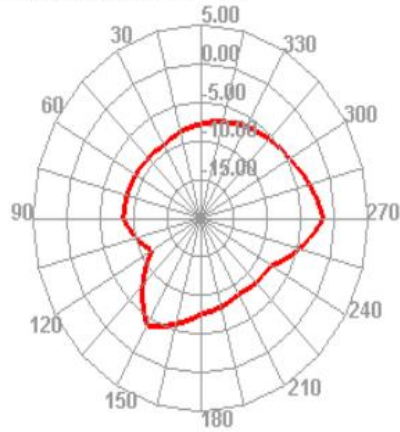


ANT3**3300.000MHz H****3300.000MHz E1****3300.000MHz E2****3500.000MHz H****3500.000MHz E1****3500.000MHz E2****3800.000MHz H****3800.000MHz E1****3800.000MHz E2**

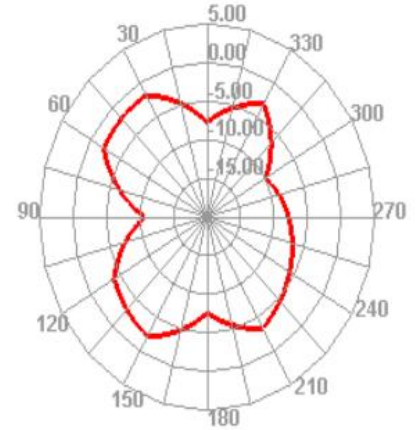
4200.000MHz H



4200.000MHz E1



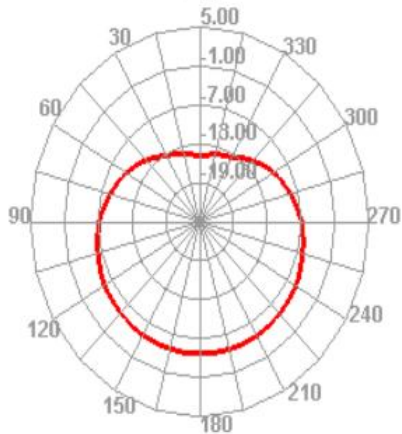
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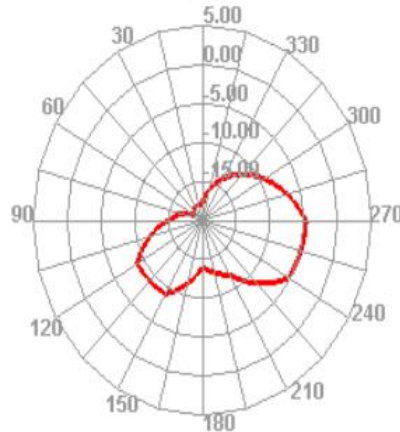
ANT4

B5

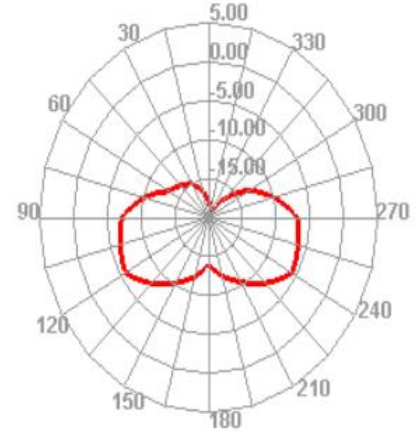
H



E1

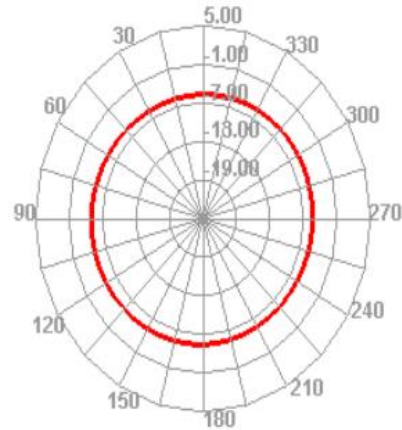


E2

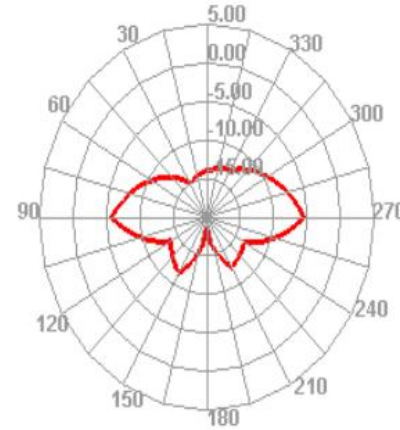


B14

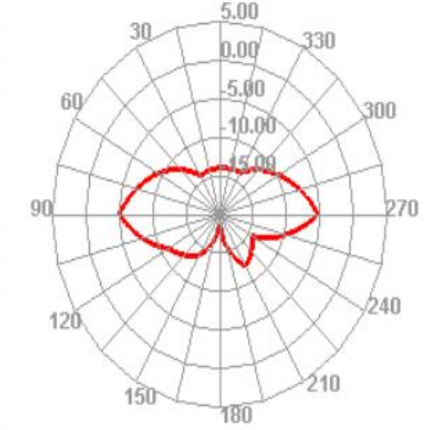
H



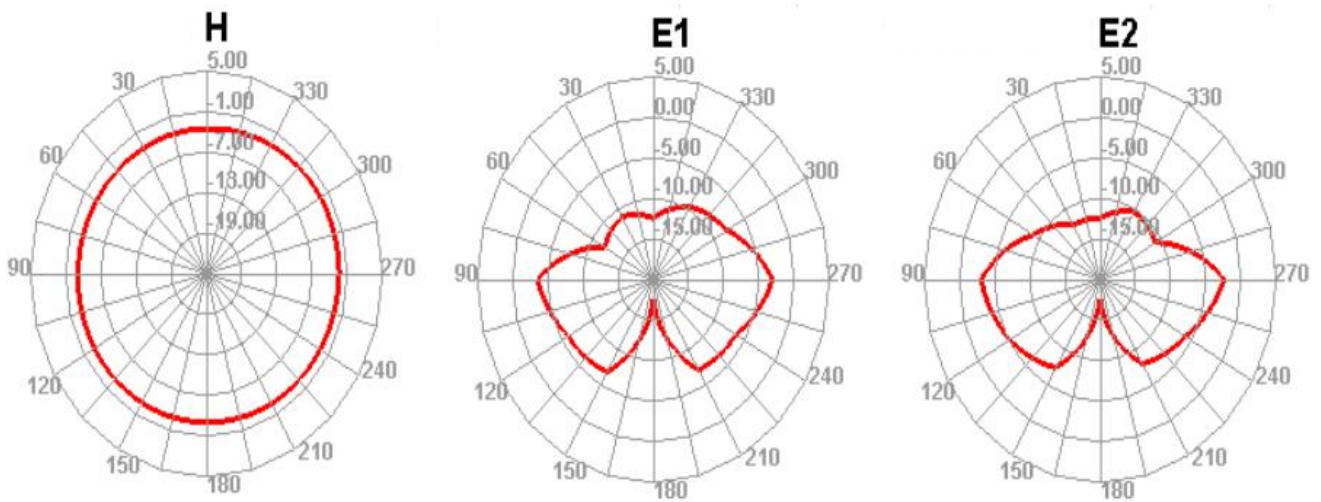
E1



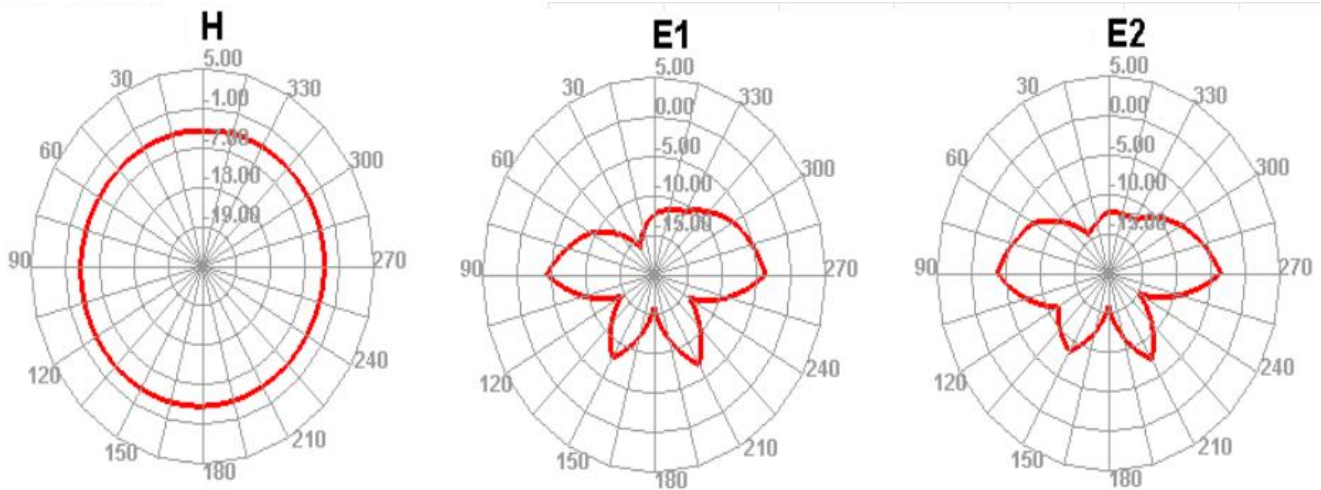
E2



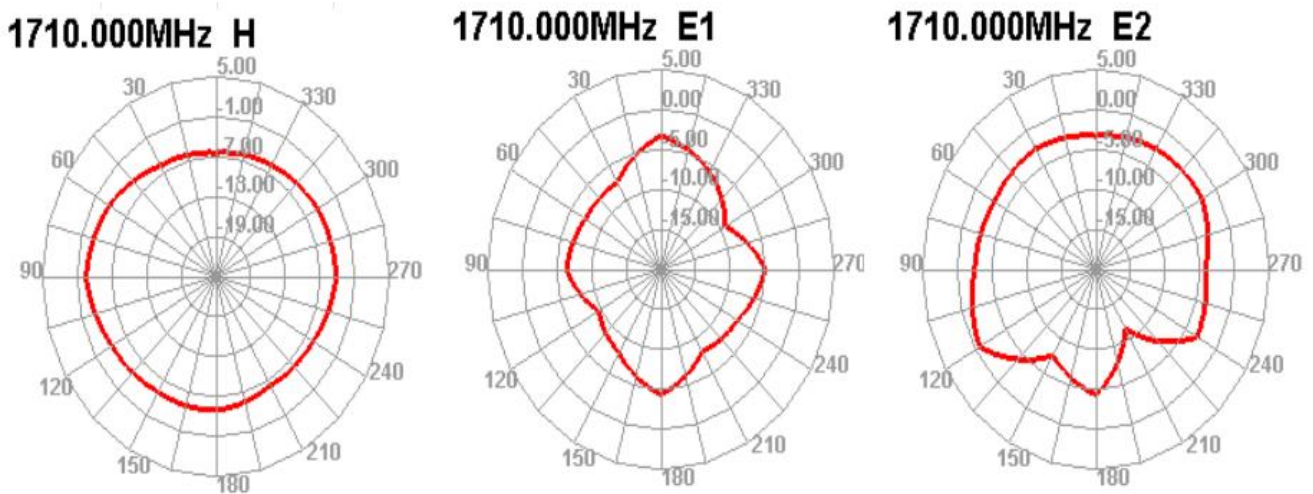
B12



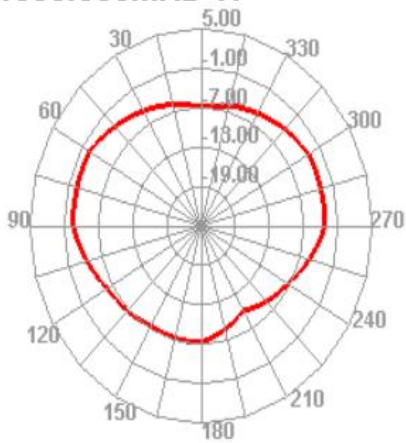
B71



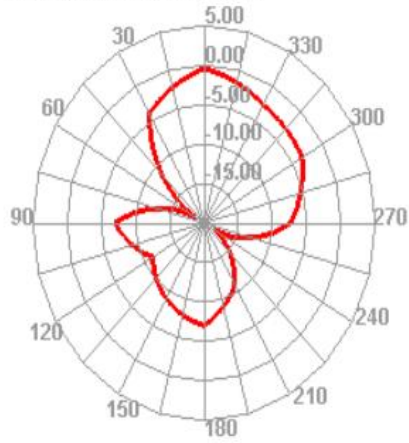
ANT5



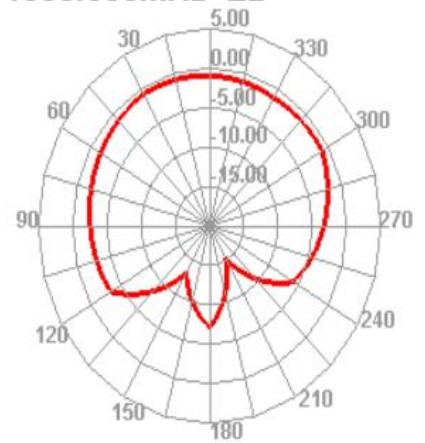
1800.000MHz H



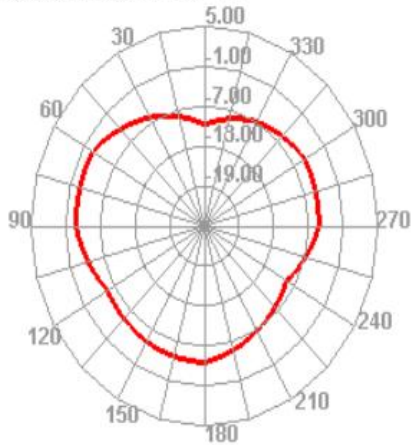
1800.000MHz E1



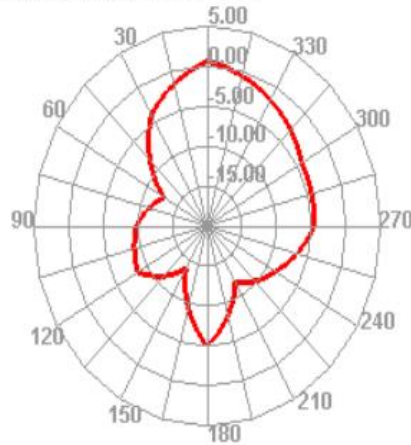
1800.000MHz E2



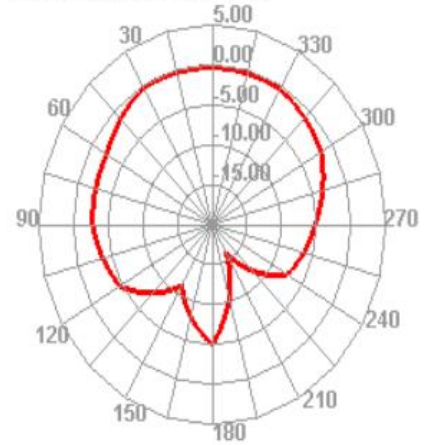
1900.000MHz H



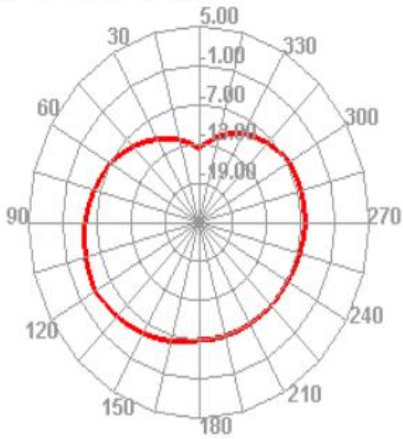
1900.000MHz E1



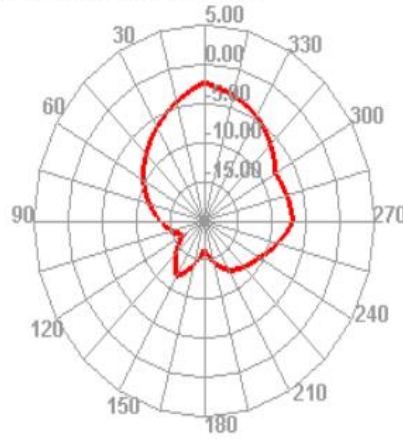
1900.000MHz E2



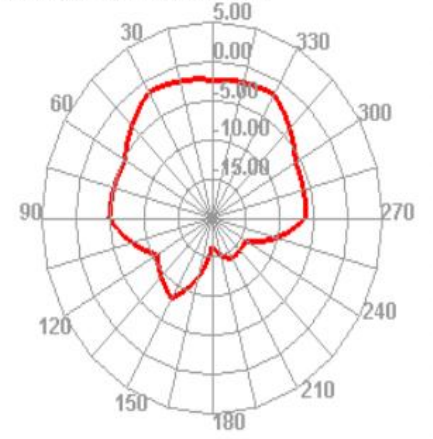
2170.000MHz H



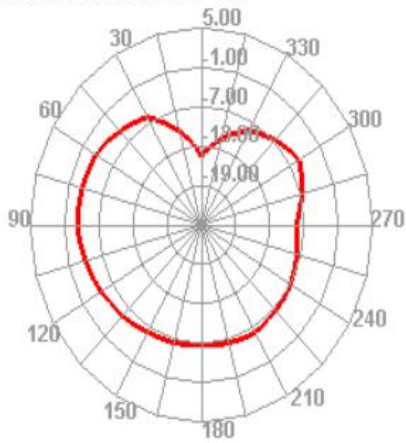
2170.000MHz E1



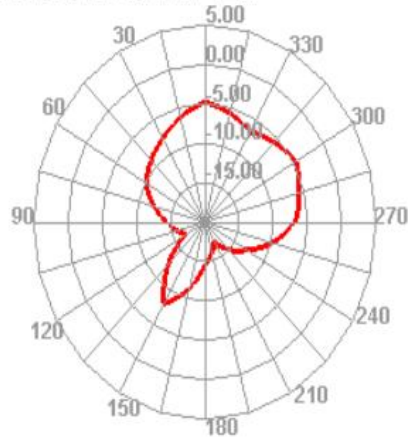
2170.000MHz E2



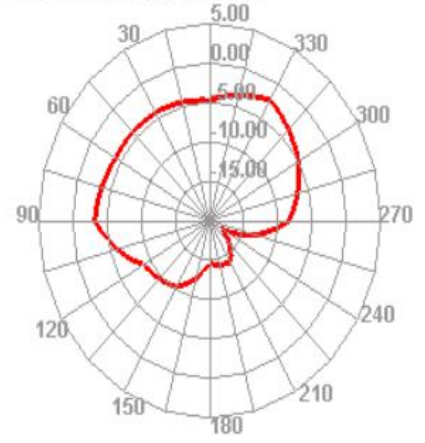
2350.000MHz H



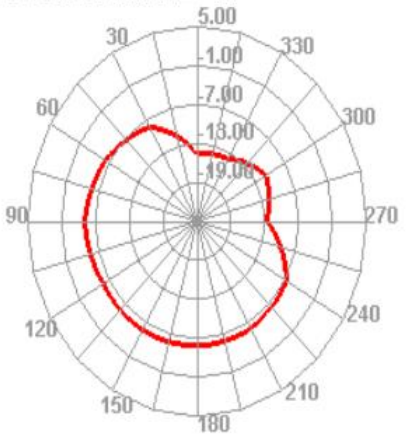
2350.000MHz E1



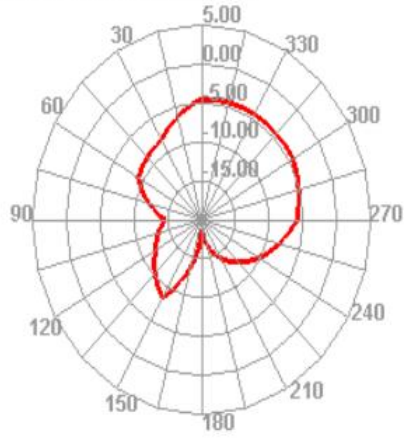
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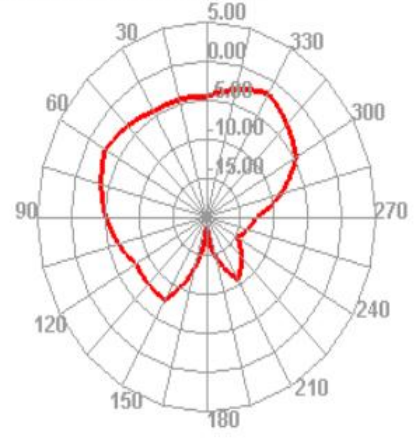
2500.000MHz H



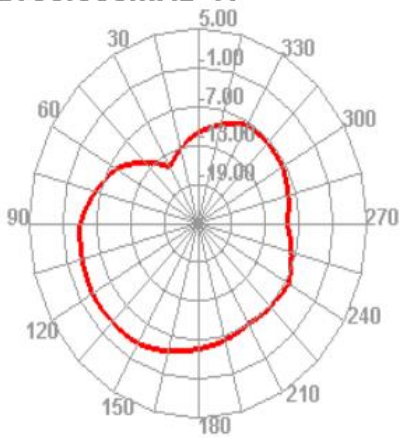
2500.000MHz E1



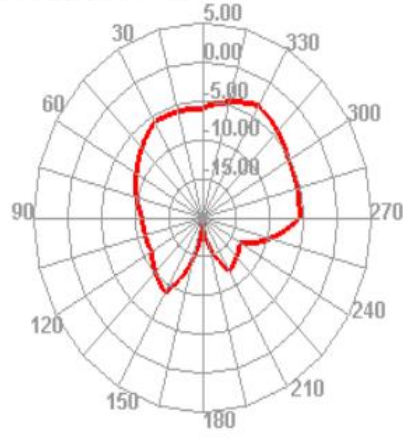
2500.000MHz E2



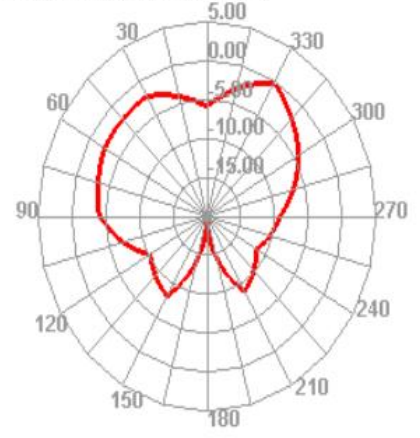
2600.000MHz H



2600.000MHz E1

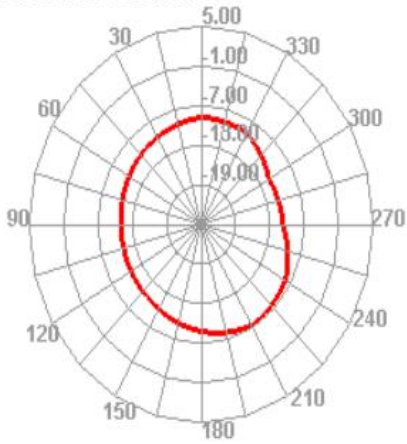


2600.000MHz E2

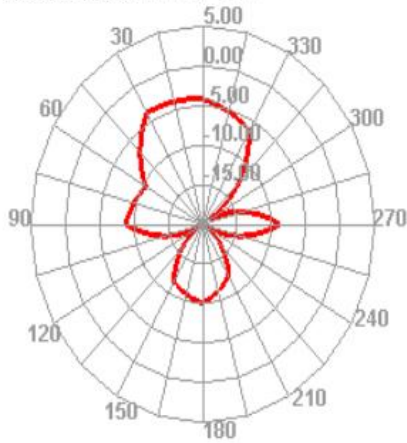


ANT6

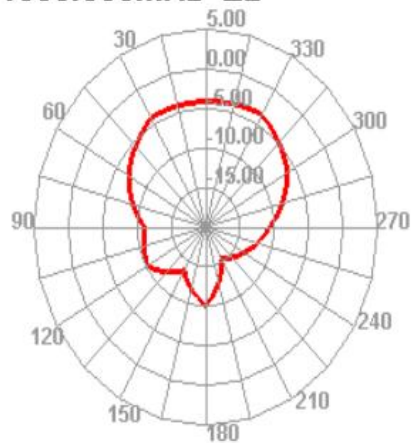
1850.000MHz H



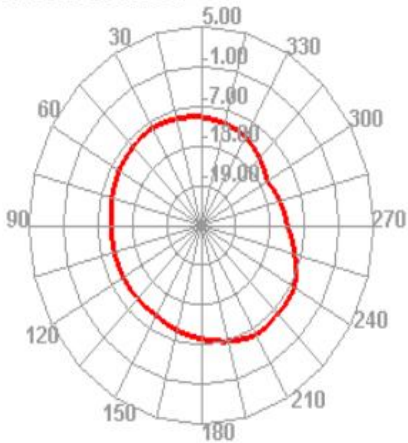
1850.000MHz E1



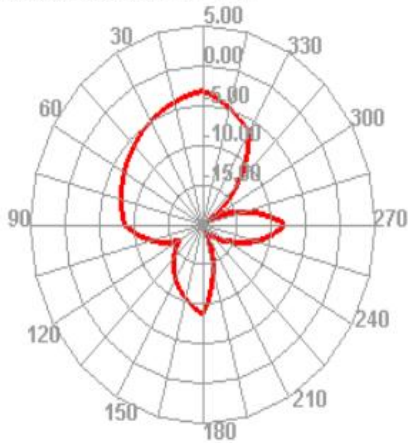
1850.000MHz E2



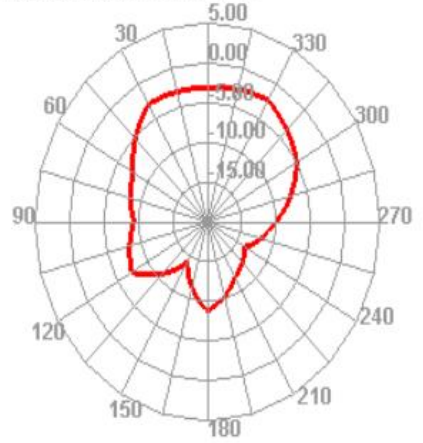
1990.000MHz H



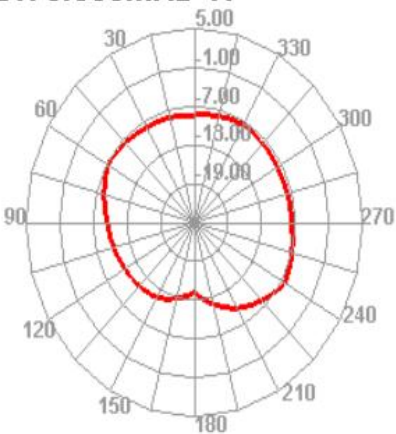
1990.000MHz E1



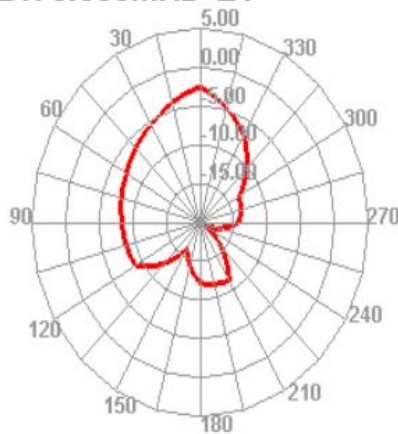
1990.000MHz E2



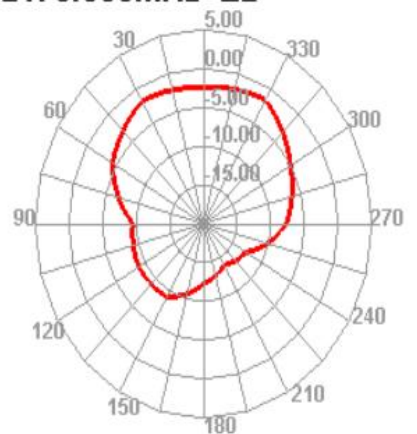
2170.000MHz H



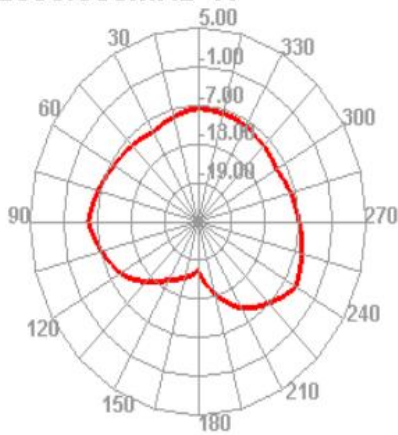
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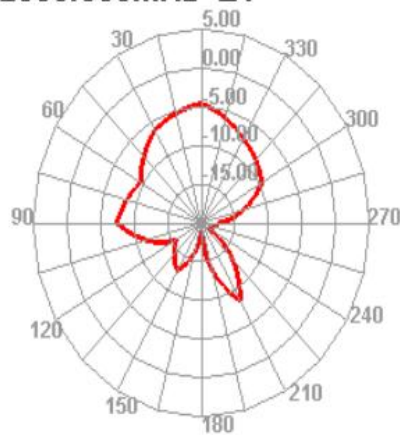
2170.000MHz E2



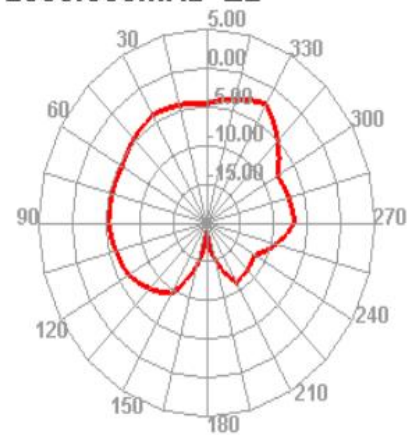
2500.000MHz H



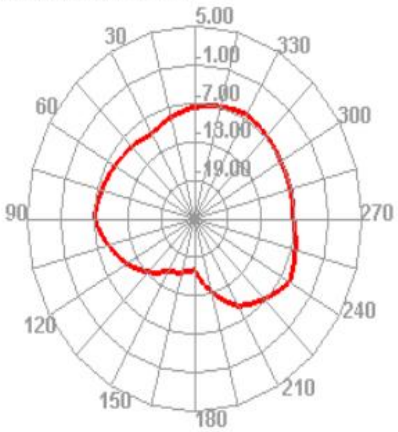
2500.000MHz E1



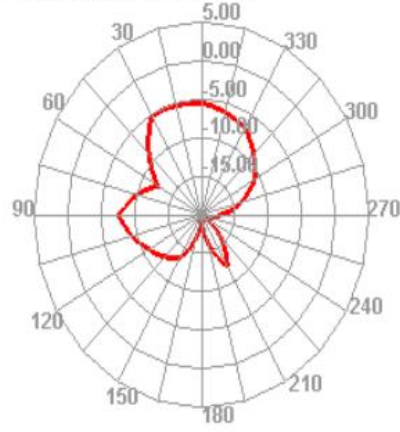
2500.000MHz E2



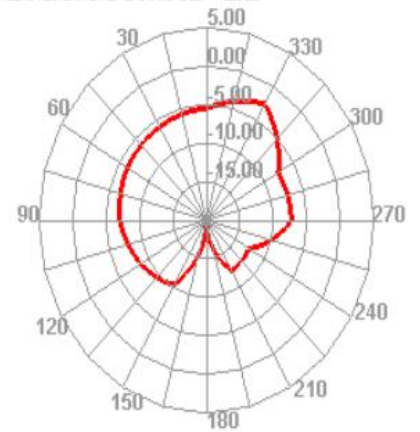
2600.000MHz H



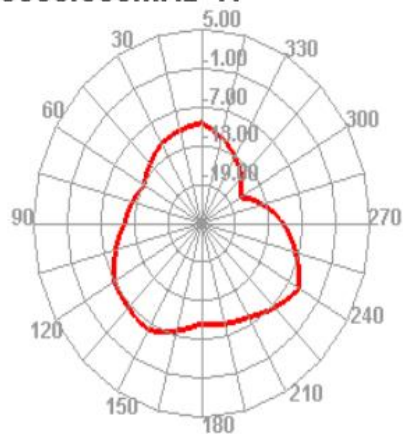
2600.000MHz E1



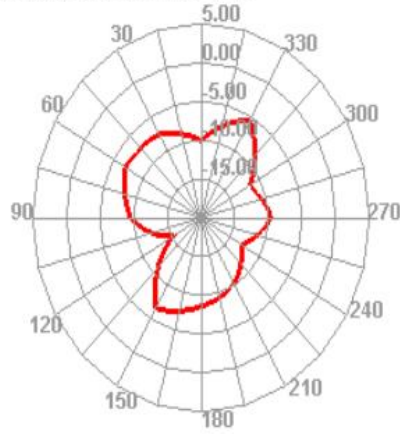
2600.000MHz E2



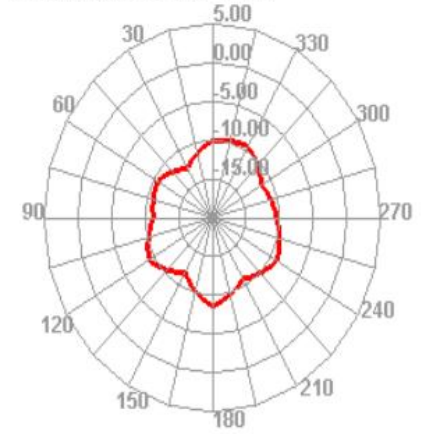
3500.000MHz H



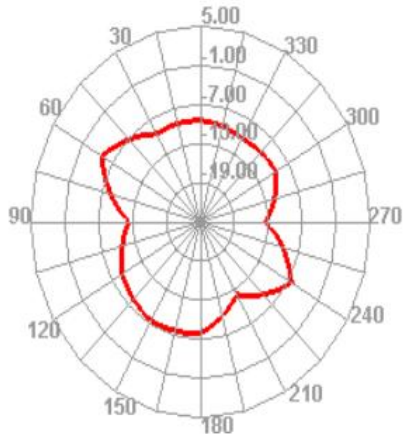
3500.000MHz E1



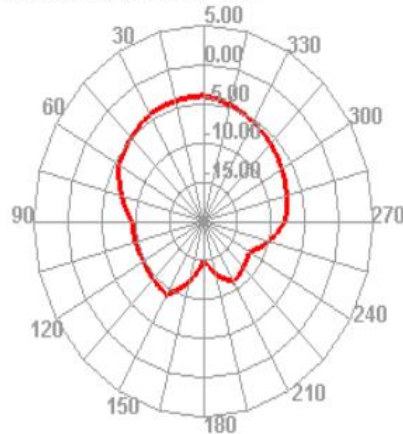
3500.000MHz E2



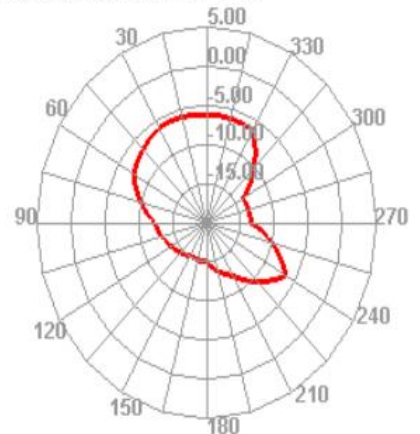
3800.000MHz H



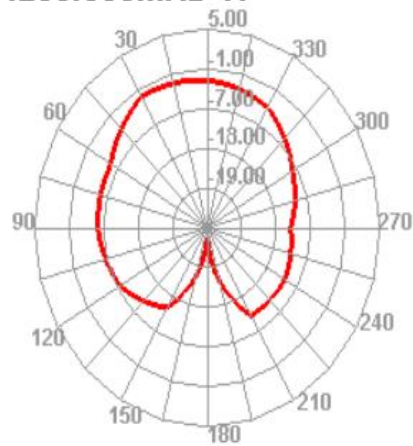
3800.000MHz E1



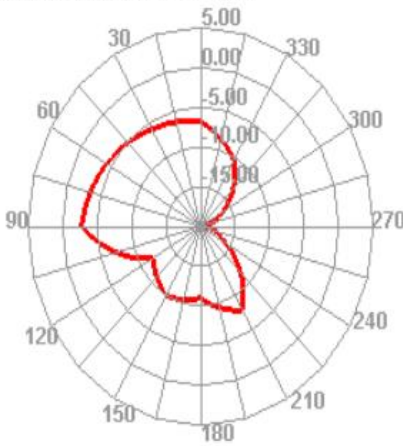
3800.000MHz E2



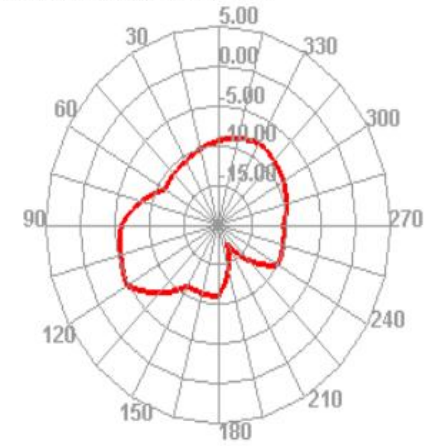
4200.000MHz H



4200.000MHz E1

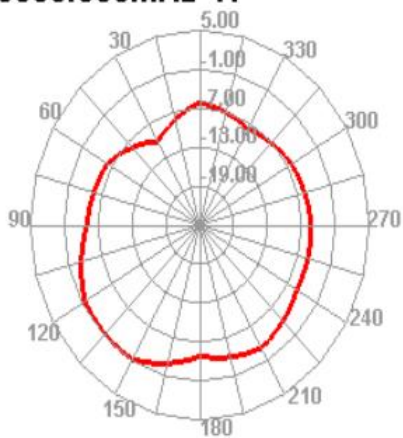


4200.000MHz E2

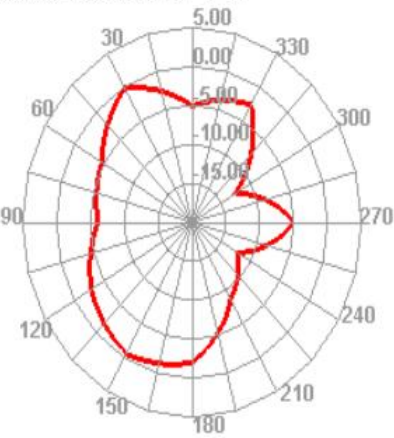


ANT7

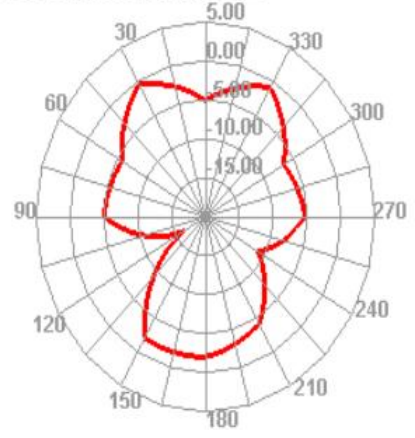
3300.000MHz H



3300.000MHz E1

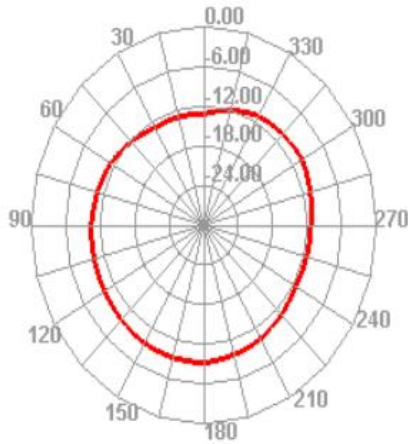


3300.000MHz E2

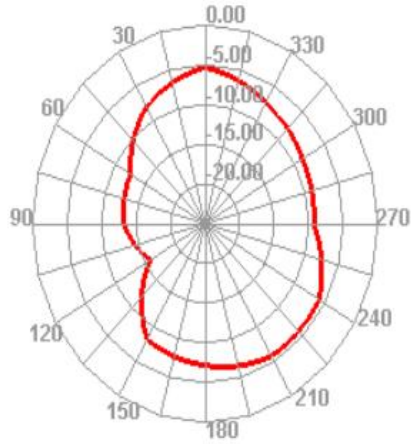


ANT8

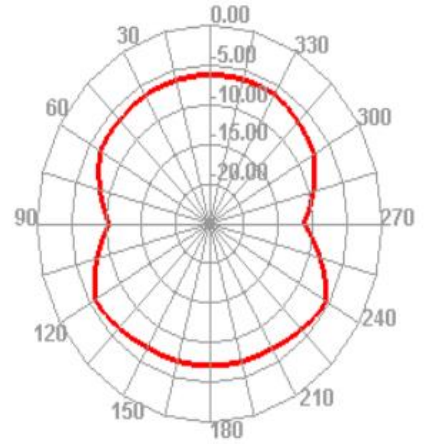
1850.000MHz H



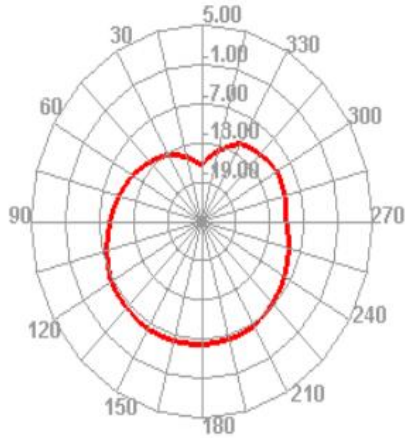
1850.000MHz E1



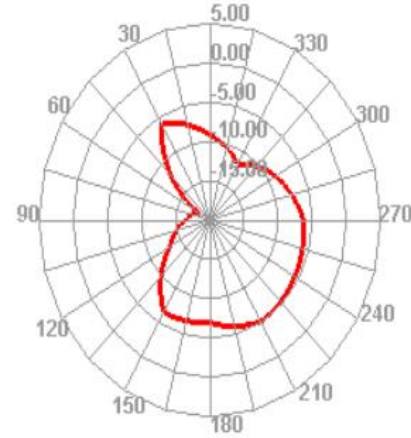
1850.000MHz E2



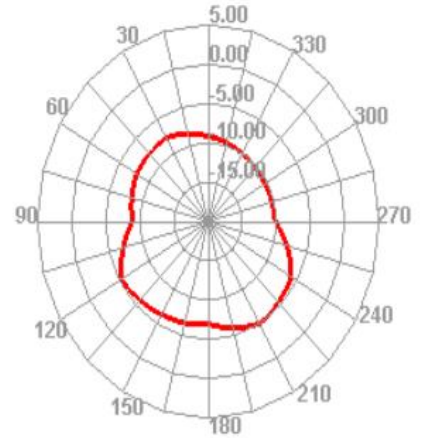
1990.000MHz H



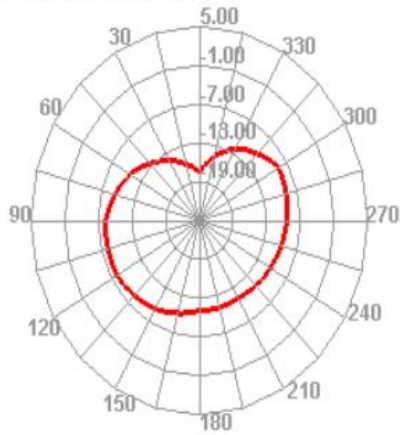
1990.000MHz E1



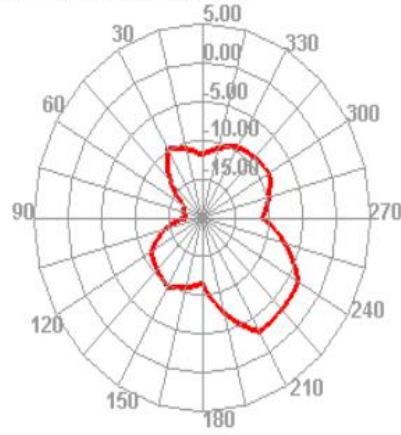
1990.000MHz E2



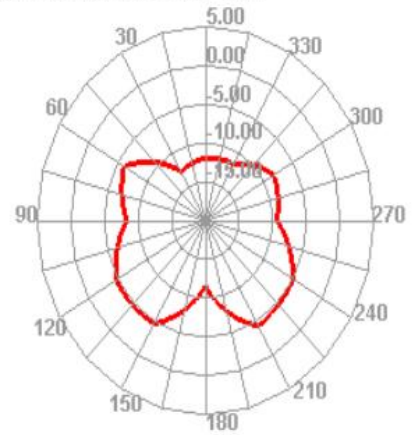
2170.000MHz H



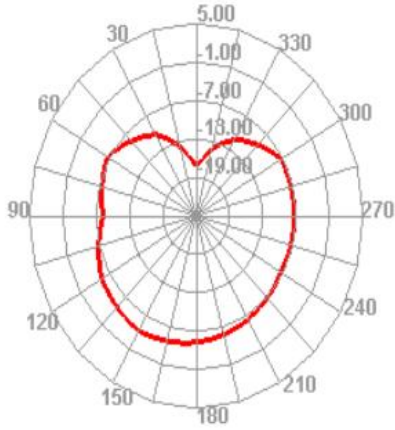
2170.000MHz E1



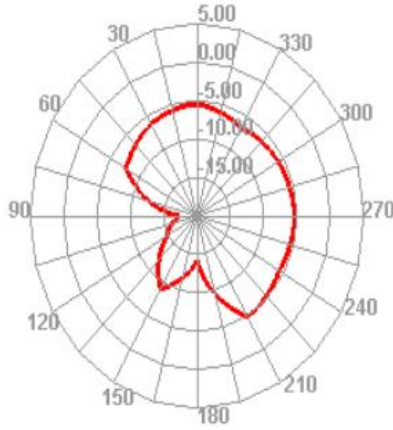
2170.000MHz E2



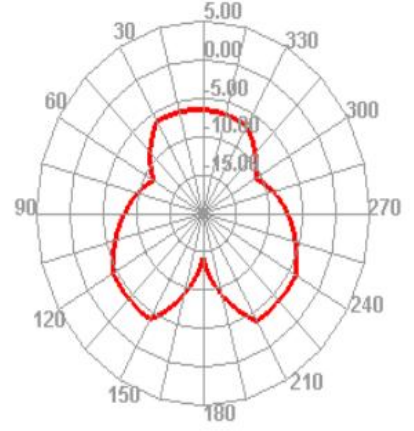
2350.000MHz H



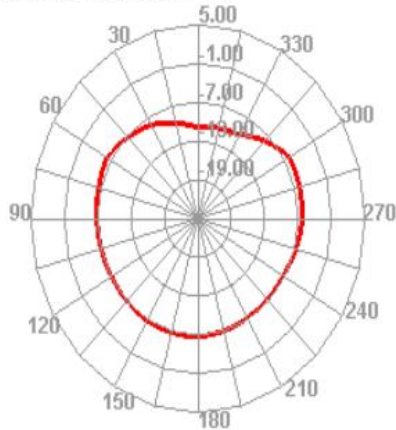
2350.000MHz E1



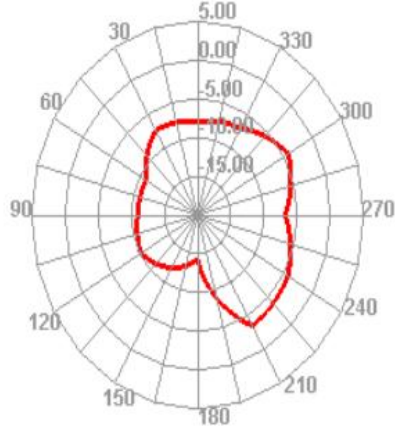
2350.000MHz E2



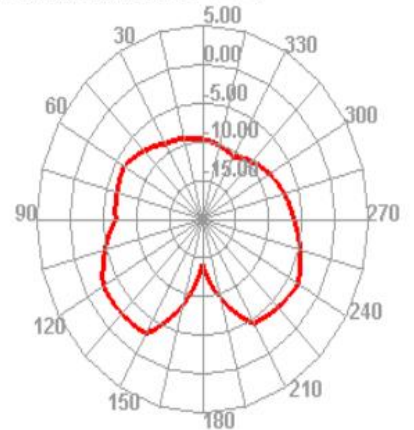
2500.000MHz H



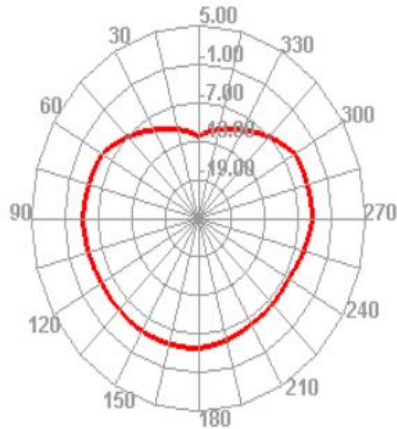
2500.000MHz E1



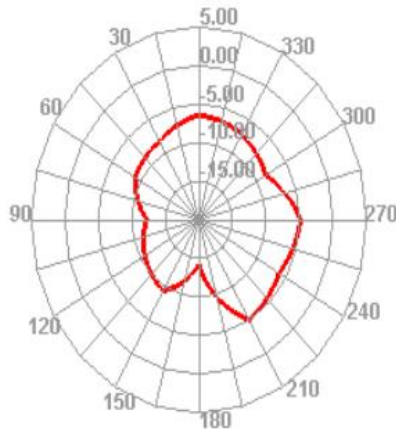
2500.000MHz E2



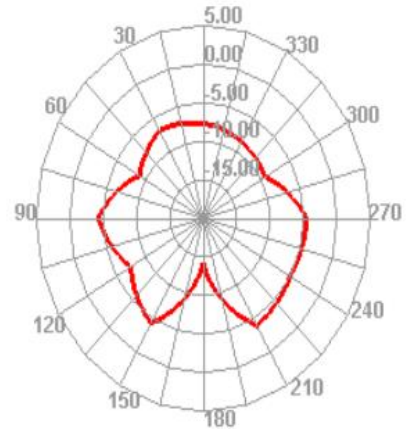
2600.000MHz H



2600.000MHz E1

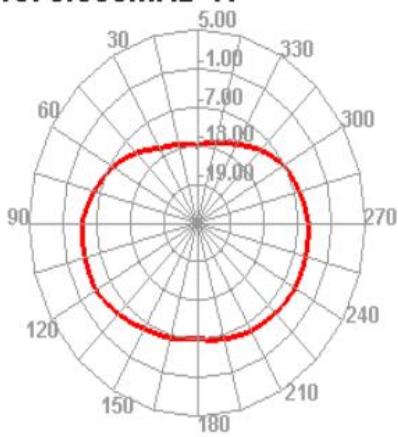


2600.000MHz E2

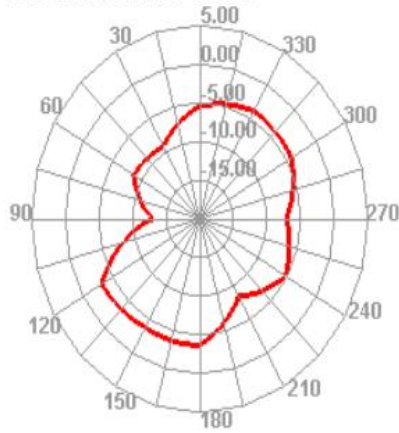


ANT9

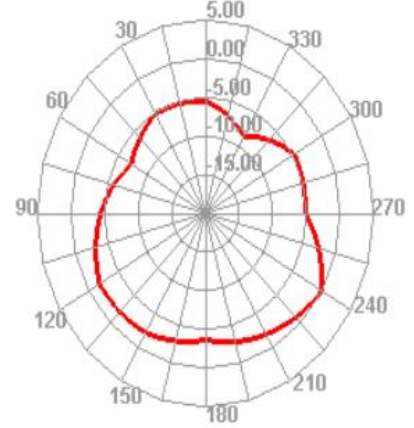
1575.000MHz H



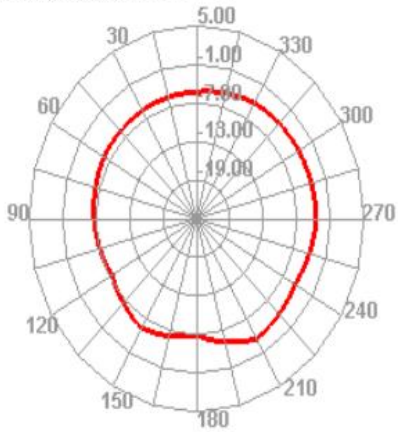
1575.000MHz E1



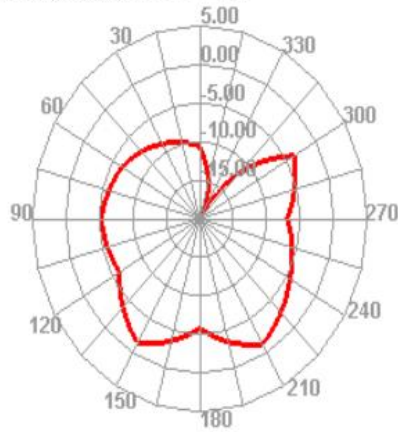
1575.000MHz E2



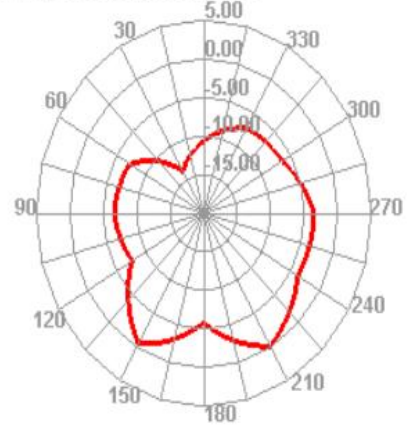
2450.000MHz H



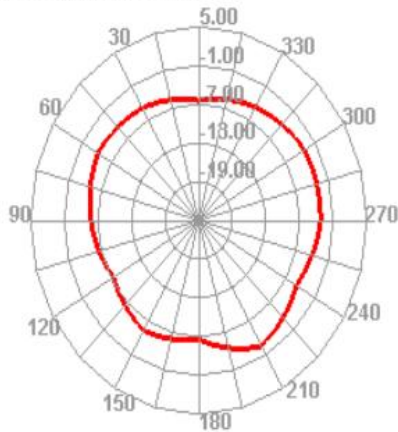
2450.000MHz E1



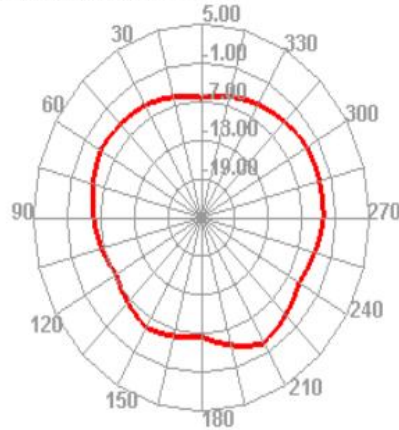
2450.000MHz E2



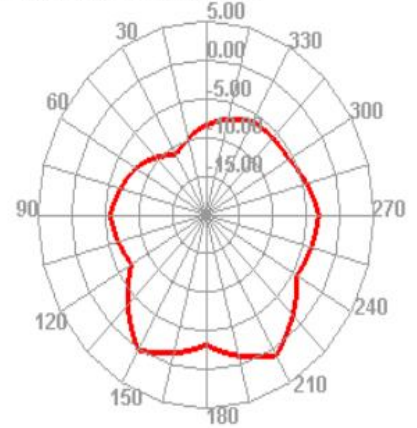
2500.000MHz H



2500.000MHz H

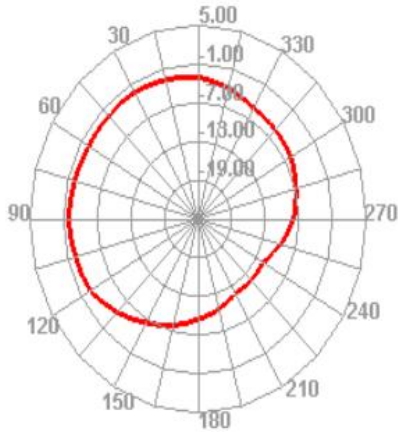


2500.000MHz E2

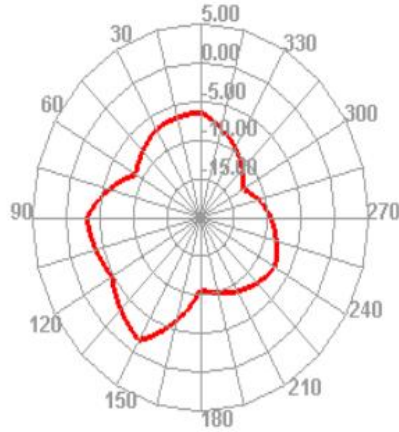


ANT10

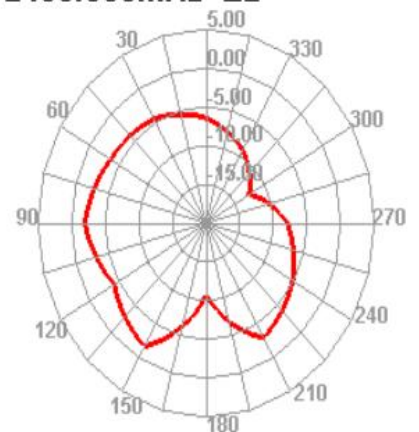
2450.000MHz H



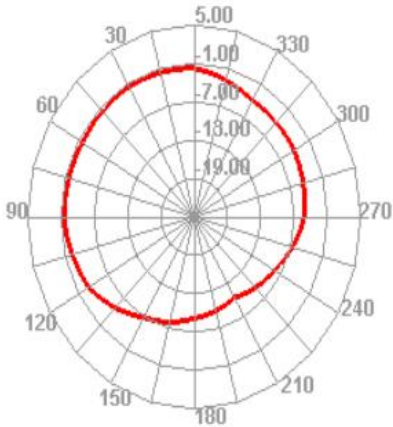
2450.000MHz E1



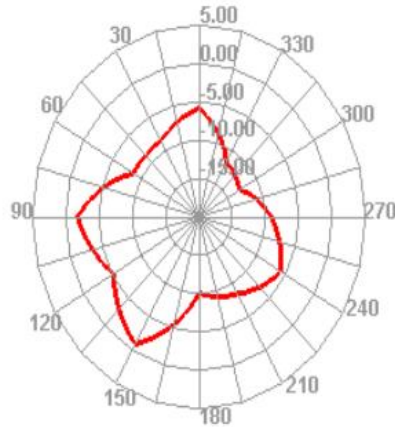
2450.000MHz E2



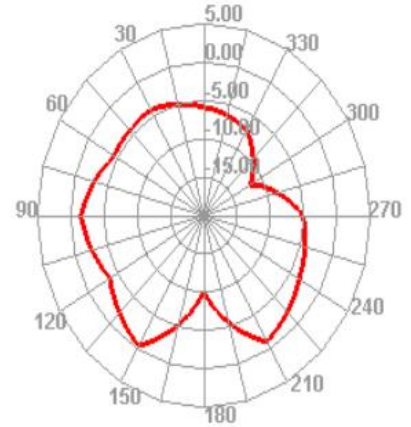
2500.000MHz H



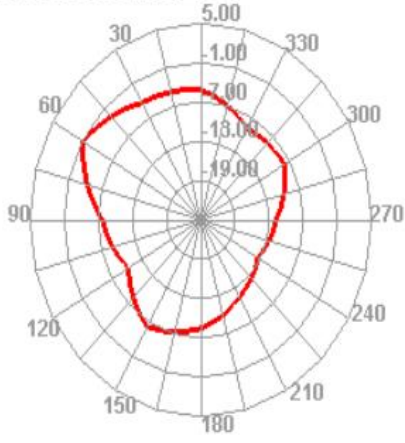
2500.000MHz E1



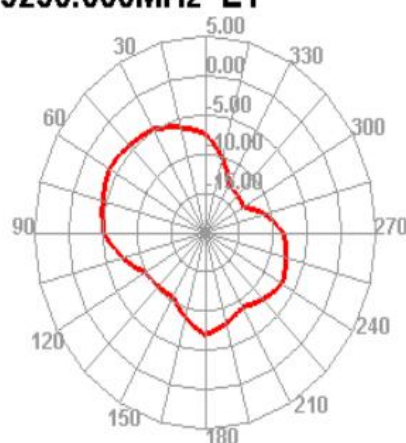
2500.000MHz E2



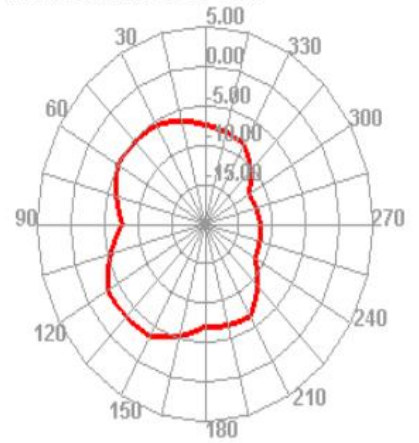
5250.000MHz H



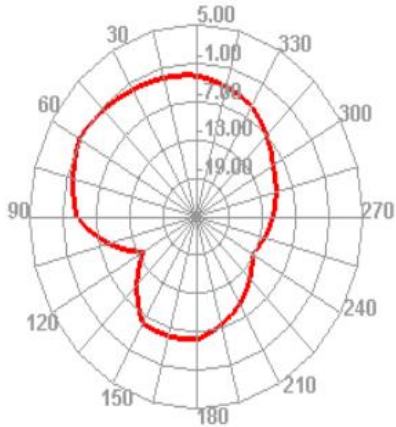
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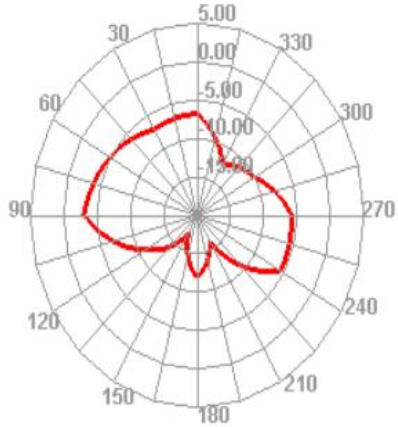
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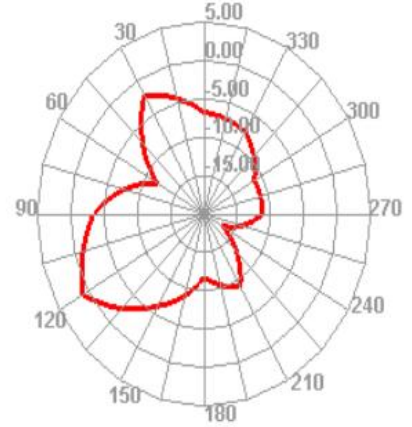
5500.000MHz H



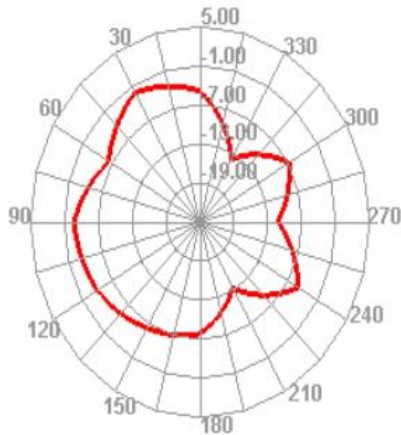
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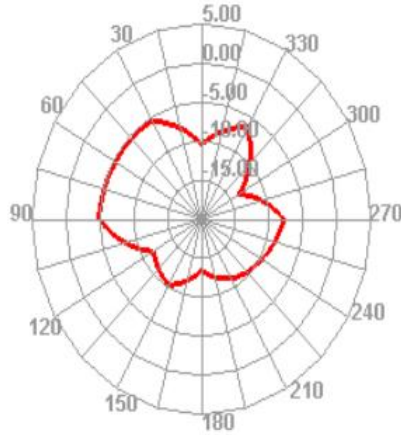
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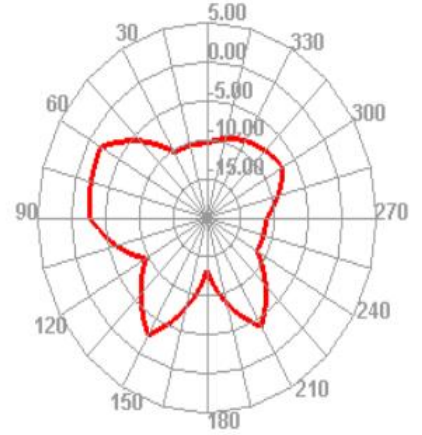
5800.000MHz H



5800.000MHz E1

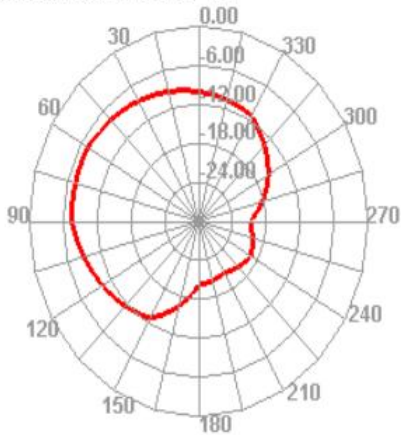


5800.000MHz E2

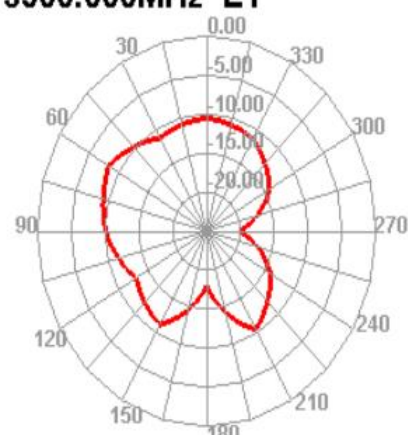


ANT0

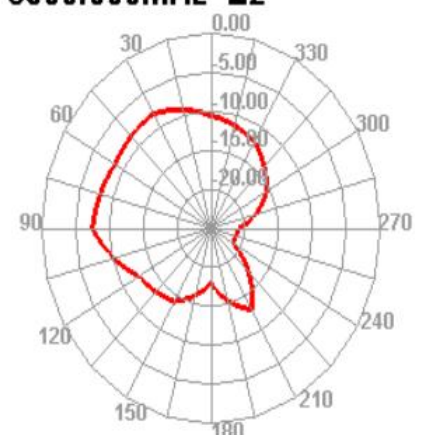
3500.000MHz H



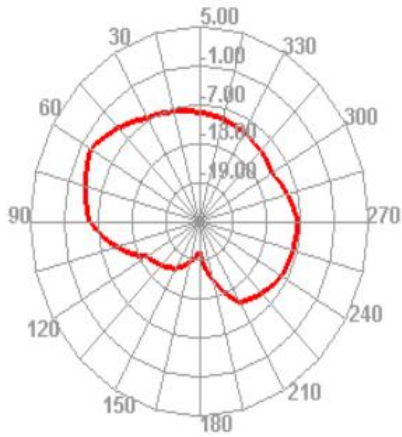
3500.000MHz E1



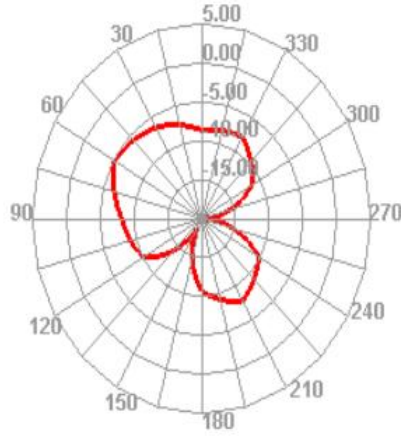
3500.000MHz E2



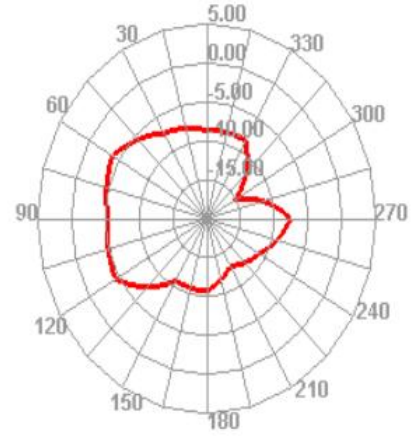
3800.000MHz H



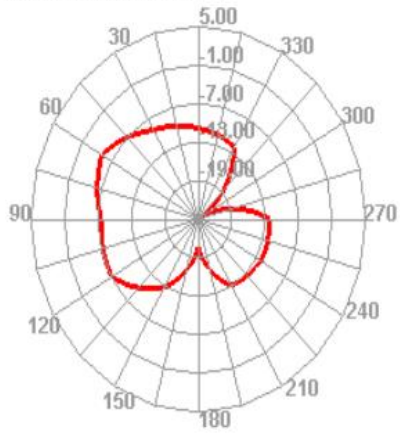
3800.000MHz E1



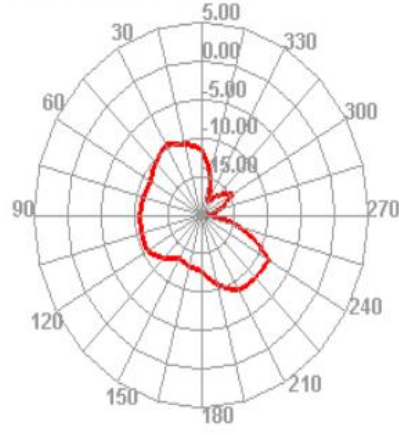
3800.000MHz E2



4200.000MHz H



4200.000MHz E1



4200.000MHz E2

