

SPECIFICATION

X800 Pro Antenna

Model number:X800

Type number:S6002

Product approval sheet

Customer		Band	5G
Project	X800	Colour	Black

Customer check:

Reach requirement of customer: ☒OK ☐NG

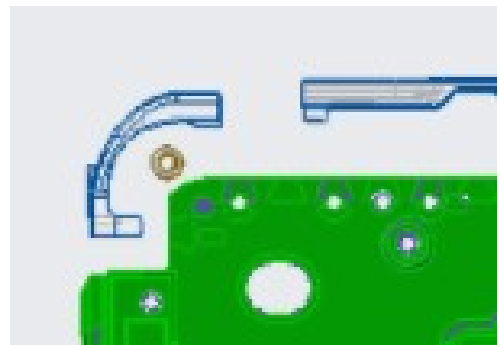
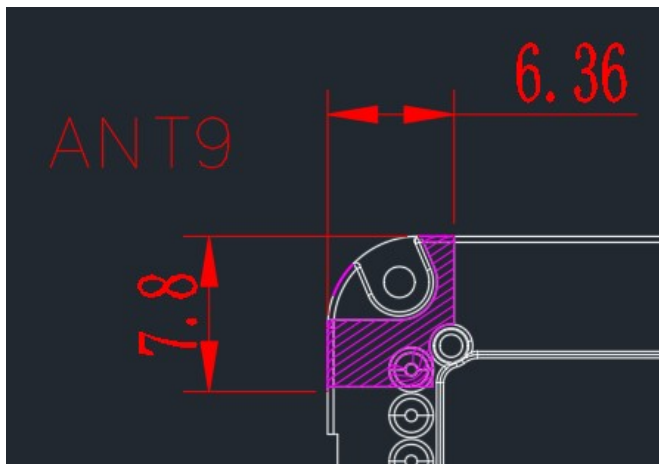
Manufacturer: Shenzhen Sanhao wireless communication Co., LTD

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

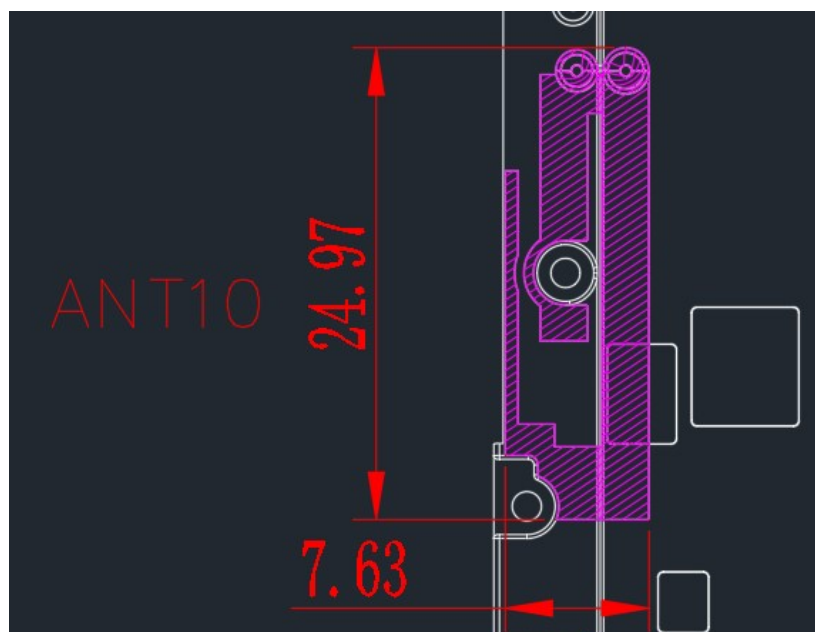
1 General description

1.1 Antenna appearing diagram

ANT9

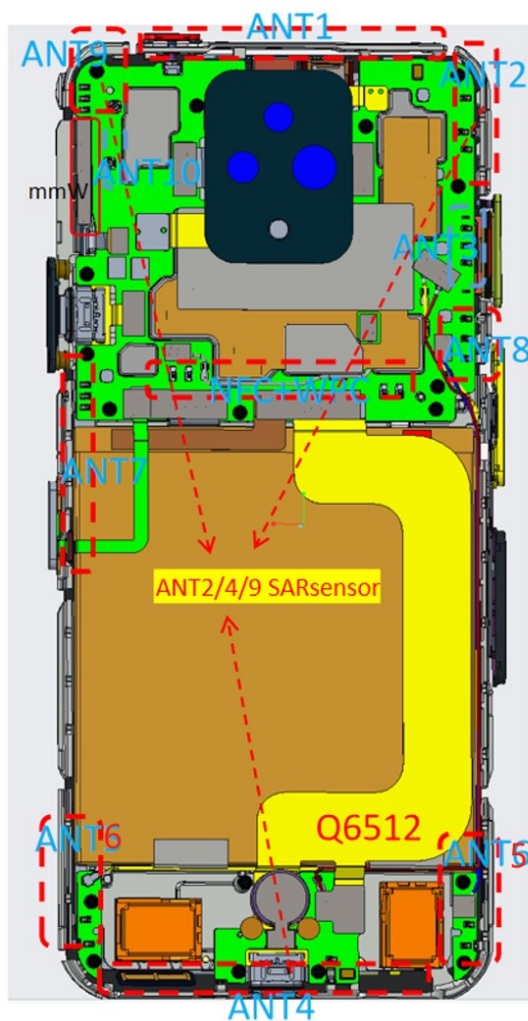


ANT10



1.2 Antenna Matching circuits

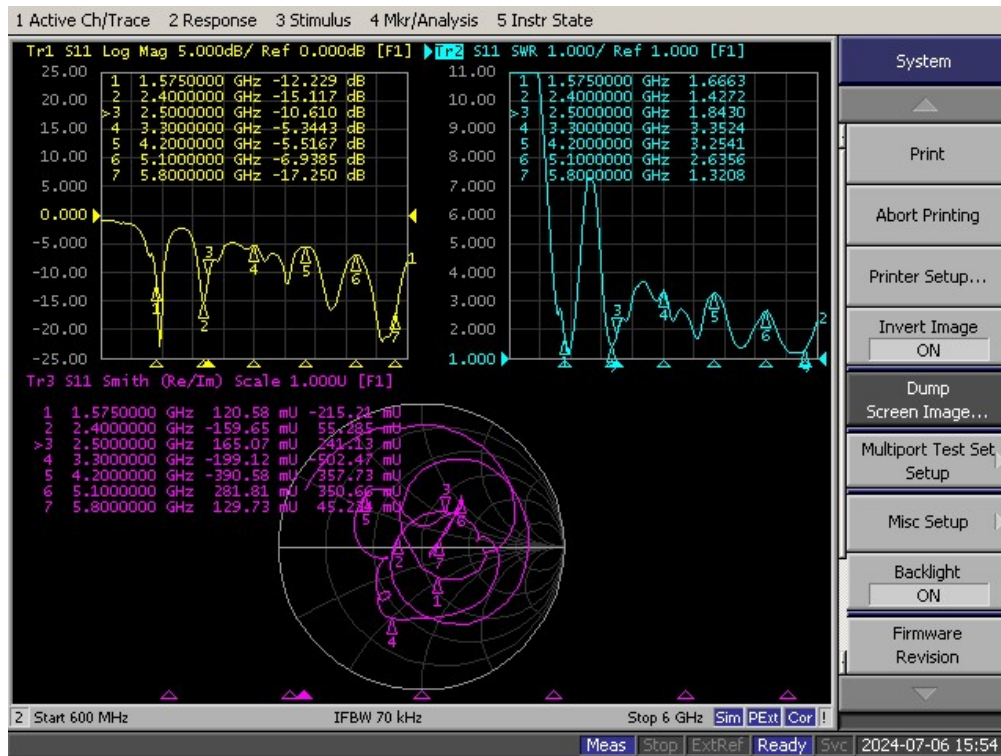
1.3 Antenna location



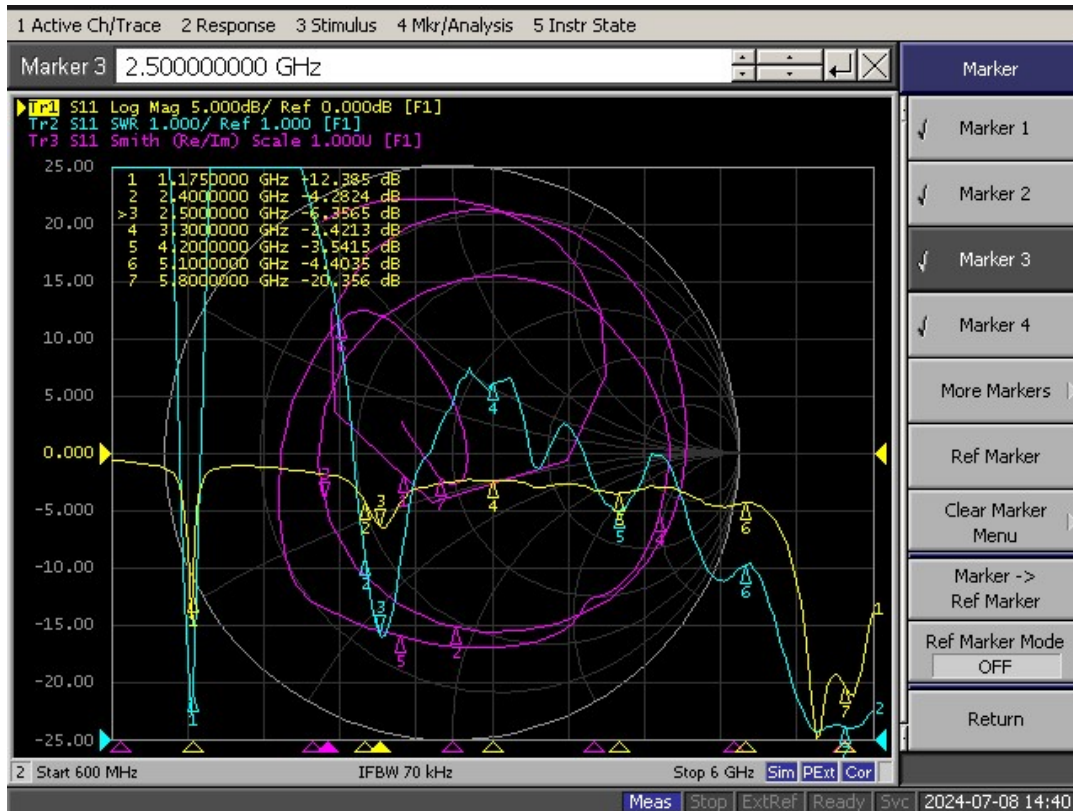
ANT1:
 GSM850/900 TRX
 W5/8 TRX
 LTE5/8/12/13/14/20/26/28/29/71 TRX
 N5/12/14/20/28/29/71 TRX
 N42/43/48/77/78/79 PRX MIMO
 ANT2:
 GSM1800/1900 TX0
 W1/2/4 TX0
 LTE1/2/3/4/7/25/30/38/39/40/41/66 TX0
 N1/2/3/7/25/38/41/N66 TX0
 ANT3:
 N42/43/48/77/78/79 TRX0
 ANT4:
 GSM850/900 DRX
 W5/8 DRX
 LTE5/8/12/13/14/20/26/28/29/71 DRX
 N5/12/14/20/28/29/71 DRX
 ANT5:ENDC
 LTE1/2/3/4/7/25/30/38/39/40/41/66 DRX MIMO
 N1/2/3/7/25/38/41/N66 DRX MIMO
 N42/43/48/77/78/79 DRX MIMO
 ANT6:
 W1/2/4 DRX
 LTE1/2/3/4/7/25/30/38/39/40/41/66 DRX0
 N1/2/3/7/25/38/41/N66 DRX0
 ANT7:
 N42/43/48/77/78/79 TX1
 ANT8:
 LTE1/2/3/4/7/25/30/38/39/40/41/66 MIMO
 N1/2/3/7/25/38/41/N66 MIMO
 ANT9:
 GPS-L1/2.4&5G&6E WIFI CH0/B46 PRX
 ANT10:
 GPS-L5/2.4&5G&6E WIFI CH1/B46 DRX

2 Electrical performance

2.1 VSWR



ANT9



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2.2 Gain

ANT9

Freq (MHz)	Gain (dBi)
1550	-1.22
1555	-1.32
1560	-1.65
1565	-1.82
1570	-2.09
1575	-2.12
1580	-2.02
1585	-1.79
1590	-1.63
1595	-1.32
1600	-1.2

Freq (MHz)	Gain (dBi)
2400	2.12
2410	2.21
2420	2.28
2430	2.34
2440	2.41
2450	2.47
2460	2.50
2470	2.32
2480	2.44
2490	2.18
2500	2.06

Freq (MHz)	Gain (dBi)
5150	-2.54
5160	-2.66
5170	-3
5180	-3
5190	-3.37
5200	-3.54

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5210	-3.35
5220	-3.14
5230	-2.72
5240	-2.89
5250	-2.67
5260	-2.58
5270	-2.43
5280	-2.28
5290	-2.04
5300	-1.72
5310	-1.83
5320	-1.72
5330	-1.5
5340	-1.65
5350	-1.76
5360	-1.78
5370	-2.03
5380	-2.45
5390	-2.16
5400	-1.82
5410	-1.75
5420	-1.66
5430	-1.5
5440	-1.61
5450	-1.73
5460	-2.01
5470	-2.47
5480	-2.76
5490	-3.27
5500	-3.75
5510	-.73
5520	-3.92
5530	-3.86
5540	-3.57
5550	-3.96
5560	-4.17
5570	-4.91
5580	-4.23
5590	-4.11
5600	-4.18
5610	-4.57
5620	-4.82
5630	-4.07
5640	-3.99

Confidential Information

5650	-4.26
5660	-3.89
5670	-3.77
5680	-3.75
5690	-3.91
5700	-3.74
5710	-3.54
5720	-3.71
5730	-3.85
5740	-3.6
5750	-3.18
5760	-3.01
5770	-2.92
5780	-3.36
5790	-3.99
5800	-3.1
5810	-2.5
5820	-2.26
5830	-2.34
5840	-2.32
5850	-2.05
Freq (MHz)	Gain (dBi)
6000	-2.41
6020	-2.62
6040	-2.8
6060	-3.15
6080	-3.21
6100	-3.18
6120	-3.45
6140	-3.62
6160	-3.03
6180	-3.26
6200	-3.16
6220	-3.39
6240	-3.78
6260	-3.8
6280	-3.54
6300	-3.35
6320	-3.27
6340	-3.01
6360	-3.27
6380	-2.74
6400	-2.37

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6420	-2.45
6440	-1.99
6460	-1.09
6480	-1.35
6500	-1.27
6520	-0.84
6540	-1.15
6560	-0.86
6580	-0.64
6600	-1.1
6620	-1.12
6640	-1.35
6660	-2.08
6680	-2.1
6700	-2.3
6720	-2.72
6740	-2.23
6760	-2.56
6780	-3.11
6800	-2.64
6820	-3.17
6840	-3.54
6860	-3.66
6880	-3.87
6900	-3.81
6920	-3.8
6940	-4.58
6960	-4.42
6980	-3.97
7000	-4.66
7020	-5
7040	-4.94
7060	-5.07
7080	-4.57
7100	-4.62
7120	-5.17
7140	-4.61
7160	-4.3
7180	-4.92
7200	-4.88

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Freq (MHz)	Gain (dBi)
1161	-3. 17
1166	-2. 6
1171	-1. 98
1176	-1. 82
1181	-1. 85
1186	-1. 93
1191	-2. 33

Freq (MHz)	Gain (dBi)
2400	-5. 58
2410	-5. 35
2420	-5. 02
2430	-4. 72
2440	-4. 34
2450	-4. 09
2460	-4. 08
2470	-4. 04
2480	-4. 00
2490	-3. 21
2500	-2. 72
Freq (MHz)	Gain (dBi)
5150	-2. 27
5160	-2. 17
5170	-1. 96
5180	-1. 76
5190	-1. 77
5200	-1. 59
5210	-1. 47
5220	-1. 68
5230	-1. 99
5240	-1. 81
5250	-1. 93
5260	-1. 61
5270	-1. 72
5280	-1. 65
5290	-1. 48
5300	-1. 48

Confidential Information

5310	-1.82
5320	-1.44
5330	-1.82
5340	-1.66
5350	-1.40
5360	-2.00
5370	-2.32
5380	-2.17
5390	-2.75
5400	-2.39
5410	-2.21
5420	-2.1
5430	-2.88
5440	-2.67
5450	-2.34
5460	-2.4
5470	-2.03
5480	-1.76
5490	-1.58
5500	-1.99
5510	-1.46
5520	-1.66
5530	-1.58
5540	-1.78
5550	-1.92
5560	-2.44
5570	-2.41
5580	-2.56
5590	-2.44
5600	-2.71
5610	-2.74
5620	-2.77
5630	-2.7
5640	-2.77
5650	-2.93
5660	-2.72
5670	-2.88
5680	-2.93
5690	-3.07
5700	-2.96
5710	-3.04
5720	-3.26
5730	-3.38
5740	-3.2

Confidential Information

5750	-2.76
5760	-3.26
5770	-3.37
5780	-3.54
5790	-3.94
5800	-3.82
5810	-3.99
5820	-3.86
5830	-4.05
5840	-4.61
5850	-4.76

Freq (MHz)	Gain (dBi)
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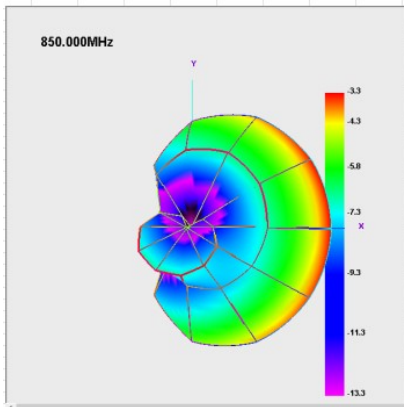
6000	0.04
6020	0.14
6040	-0.38
6060	-0.42
6080	-0.39
6100	-0.61
6120	-0.26
6140	-0.5
6160	-0.53
6180	-0.36
6200	-0.69
6220	-0.78
6240	-0.73
6260	-0.89
6280	-0.74
6300	-0.6
6320	-1.18
6340	-1.12
6360	-1.56
6380	-1.67
6400	-1.62
6420	-1.82
6440	-1.97
6460	-1.21
6480	-1.61
6500	-1.79
6520	-1.44

6540	-1.96
6560	-1.94
6580	-1.63
6600	-2.14
6620	-2.21
6640	-2.07
6660	-2.63
6680	-2.63
6700	-2.61
6720	-2.84
6740	-2.01
6760	-1.89
6780	-2.32
6800	-1.86
6820	-1.92
6840	-2.08
6860	-2.13
6880	-2.07
6900	-1.58
6920	-1.27
6940	-1.79
6960	-1.38
6980	-0.66
7000	-0.82
7020	-0.65
7040	-0.25
7060	-0.14
7080	0.44
7100	0.37
7120	0.13
7140	0.78
7160	0.94
7180	0.6
7200	0.86

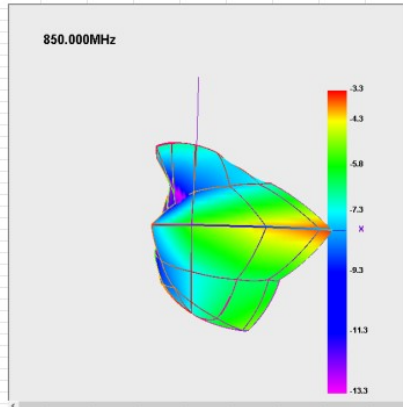
2.3 3D Pattern

ANT1

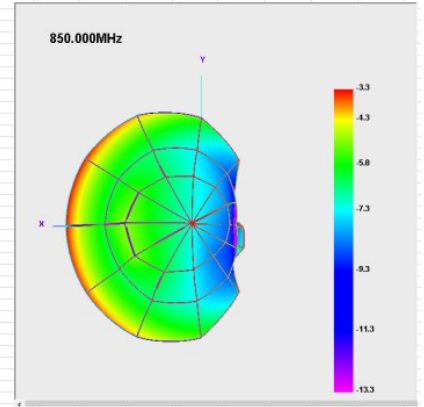
B5 plane



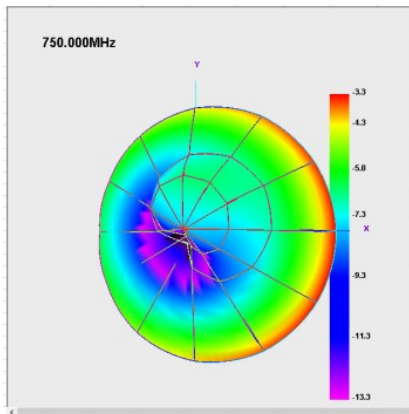
E1 plane



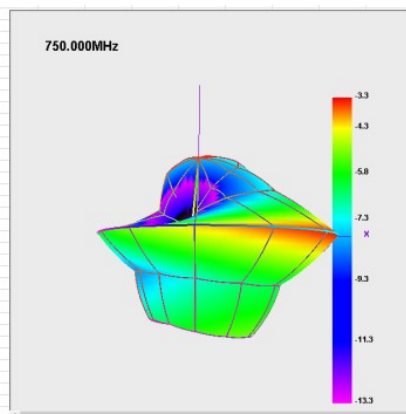
E2 plane



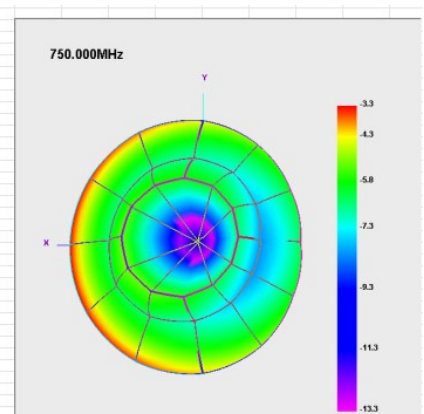
B13 plane



E1 plane



E2 plane



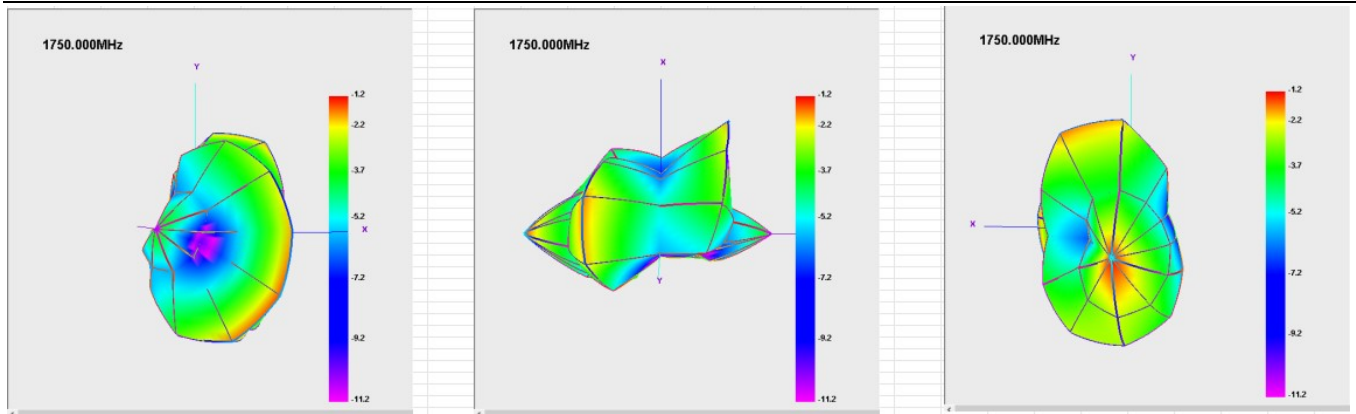
ANT2

plane

E1 plane

E2 plane

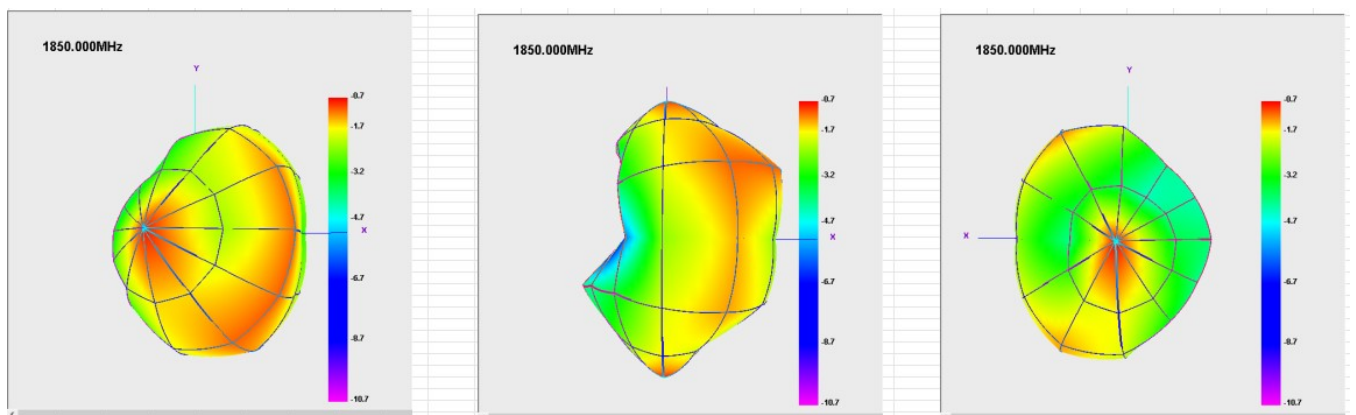
Confidential Information



plane

E1 plane

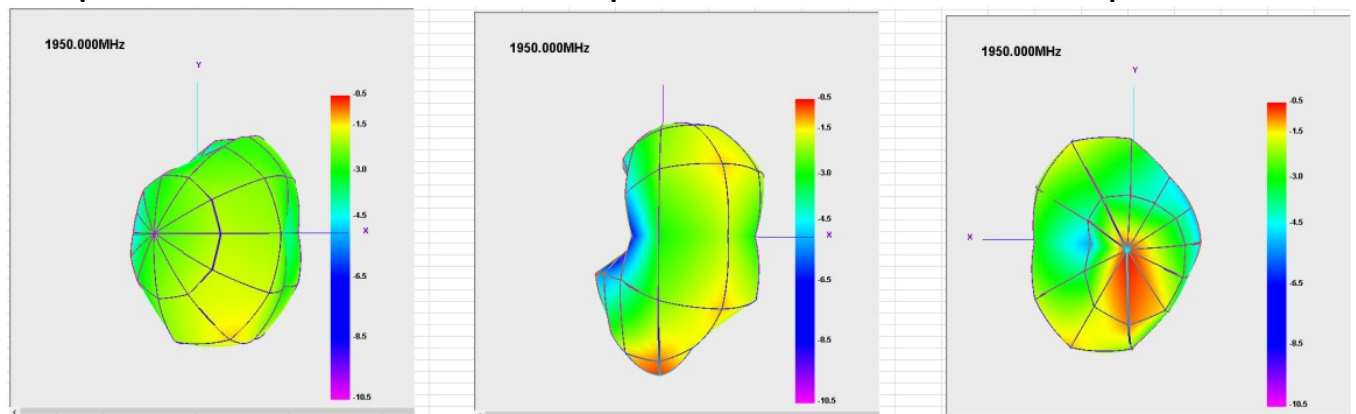
E2 plane



plane

E1 plane

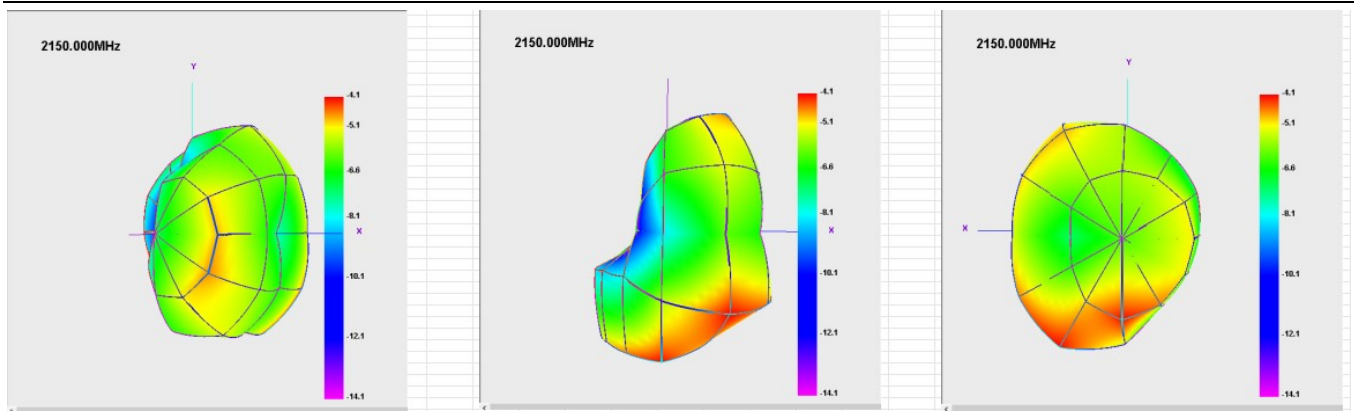
E2 plane



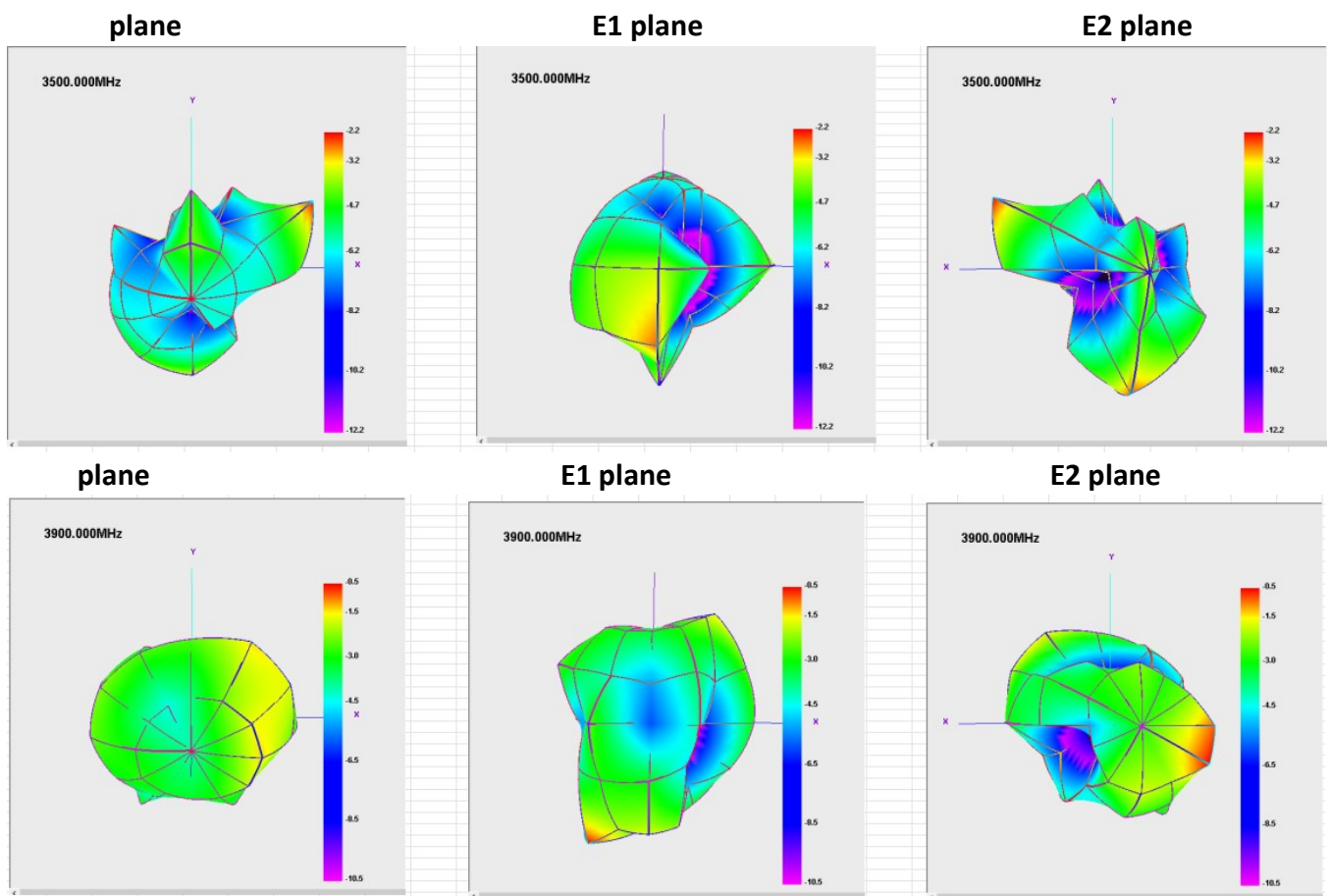
plane

E1 plane

E2 plane

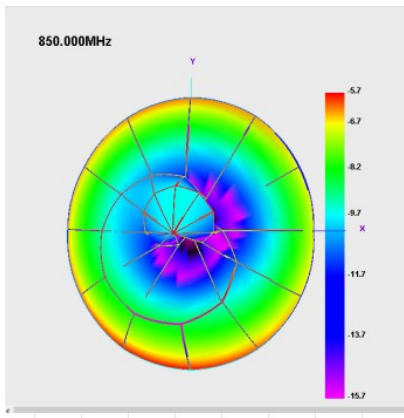


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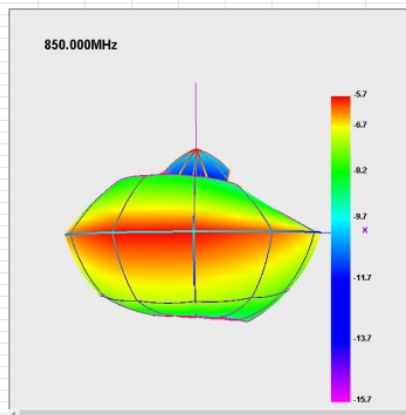


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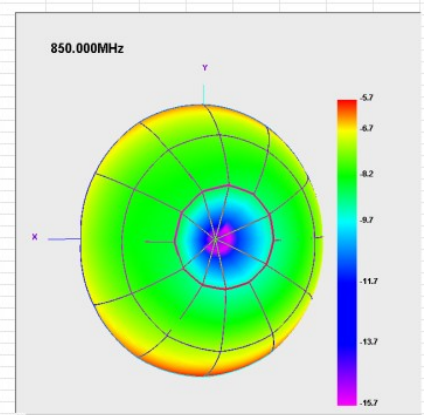
B5 plane



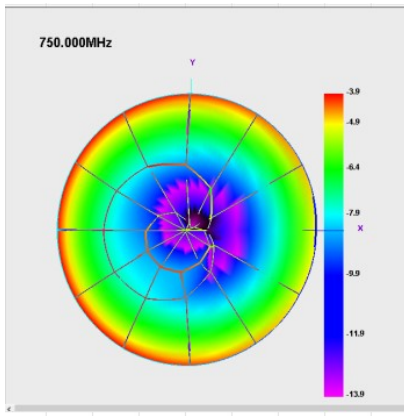
E1 plane



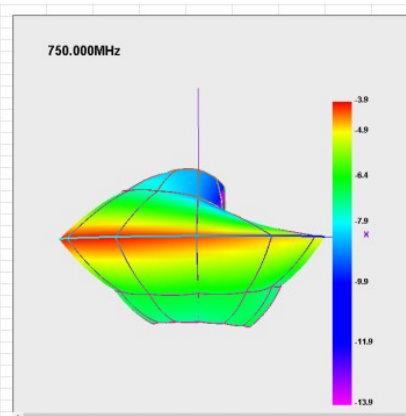
E2 plane



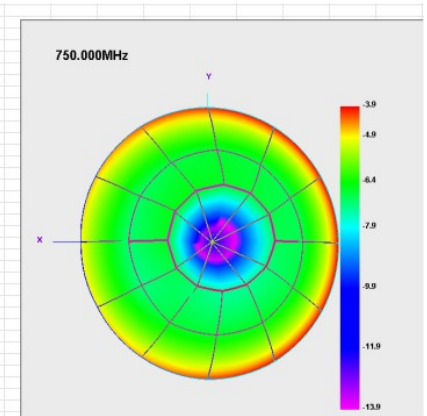
B13 plane



E1 plane

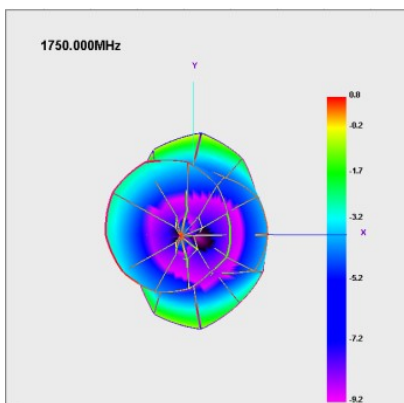


E2 plane

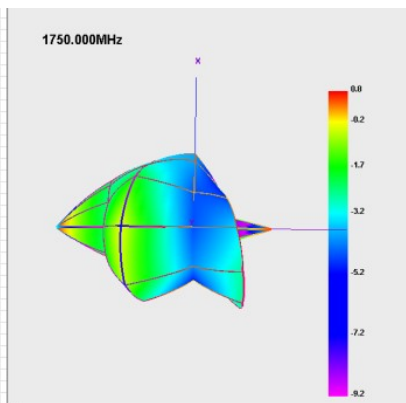


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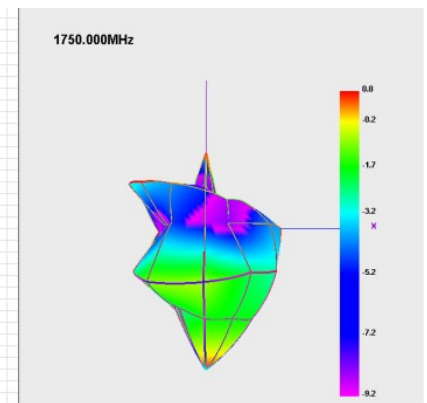
plane



E1 plane



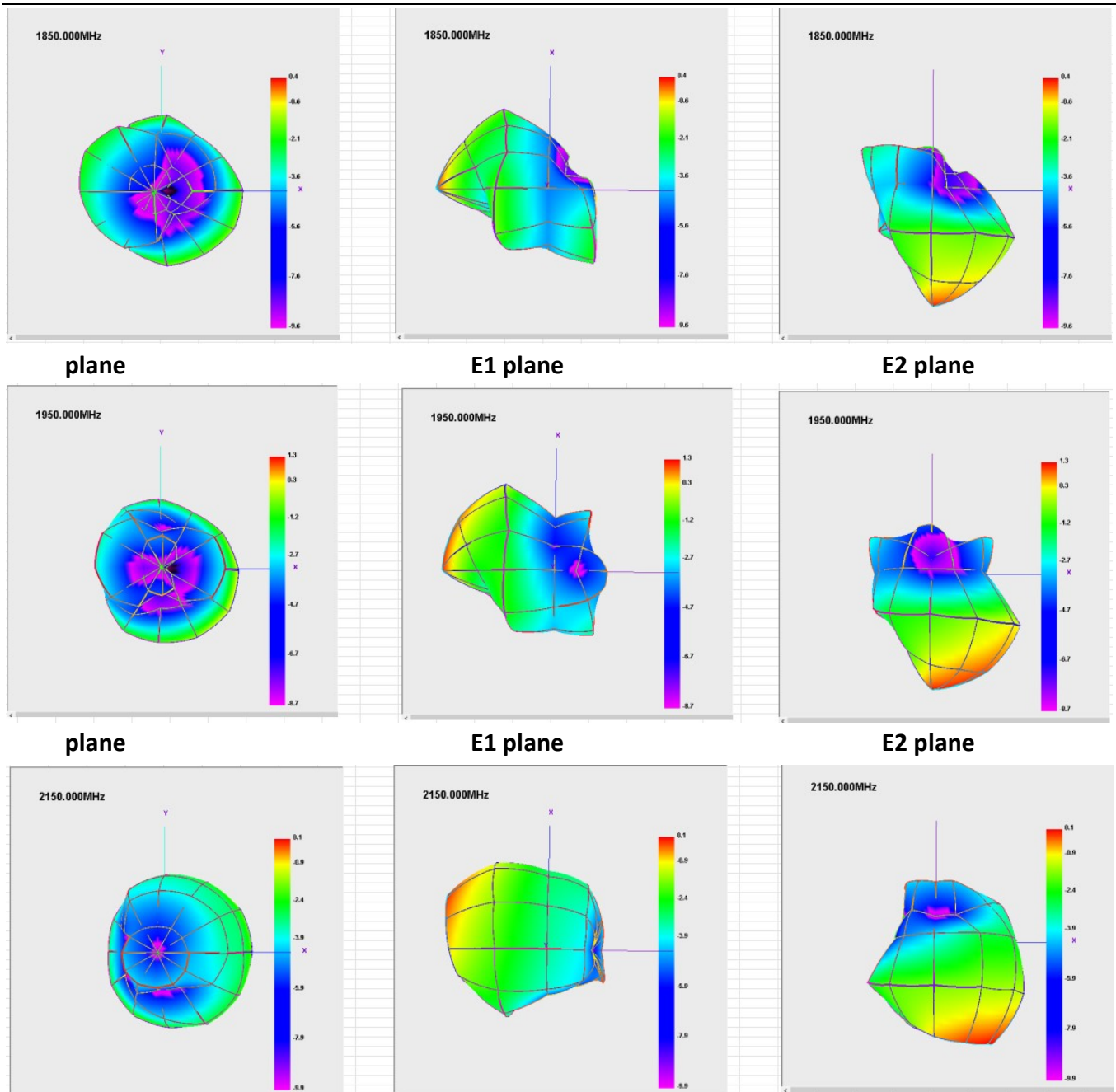
E2 plane



plane

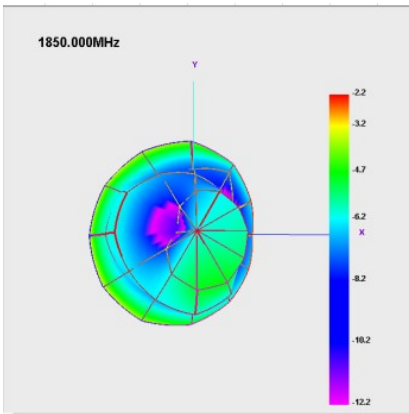
E1 plane

E2 plane

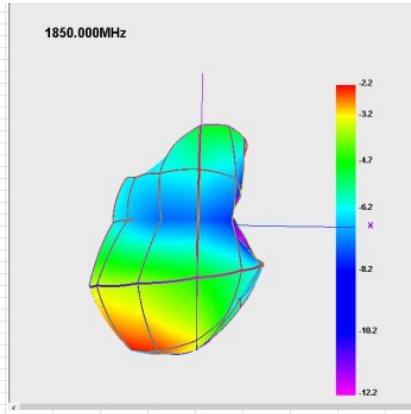


ANT6

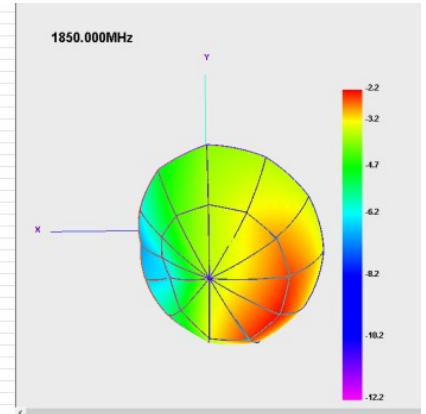
plane



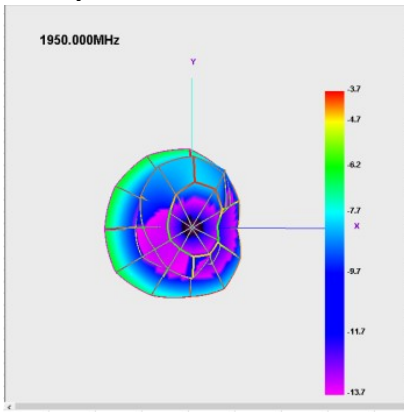
E1 plane



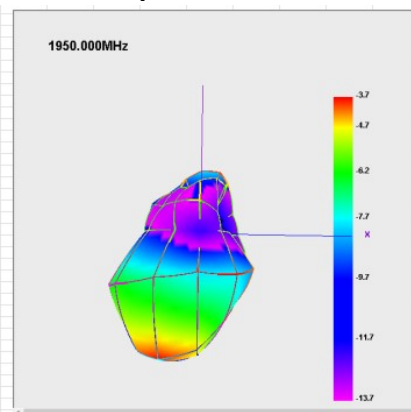
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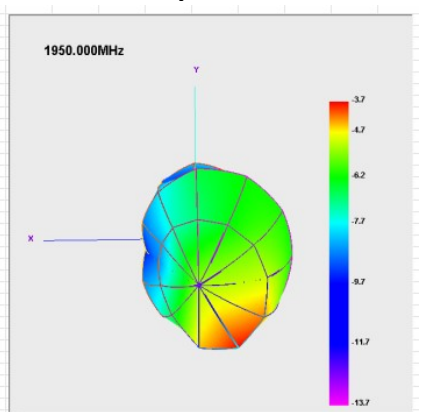
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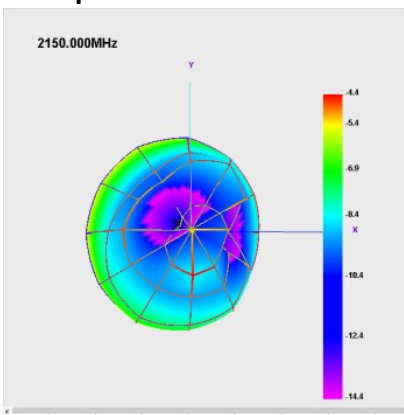
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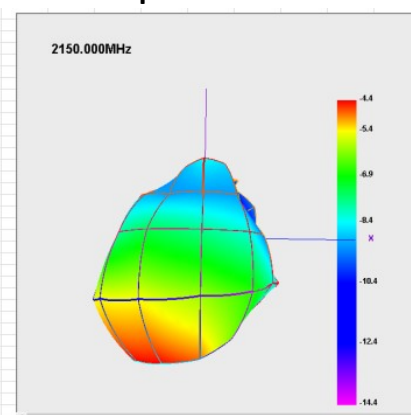
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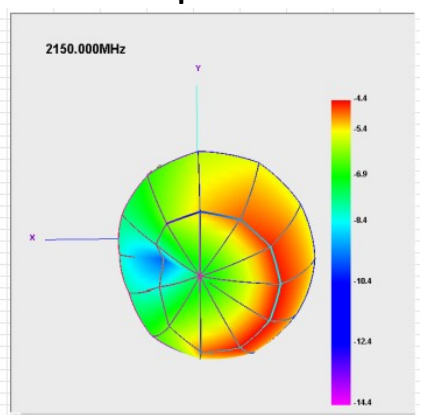
plane



E1 plane



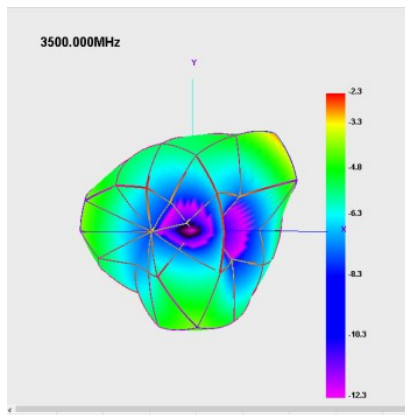
E2 plane



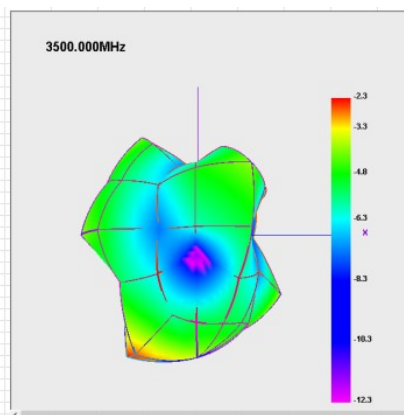
plane

E1 plane

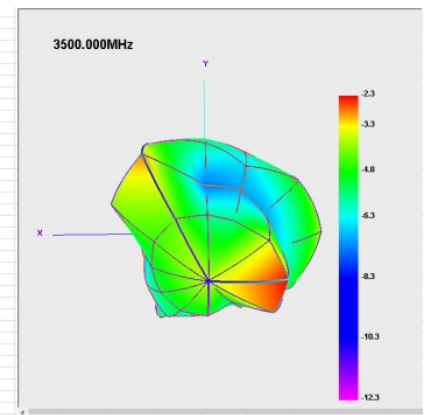
E2 plane



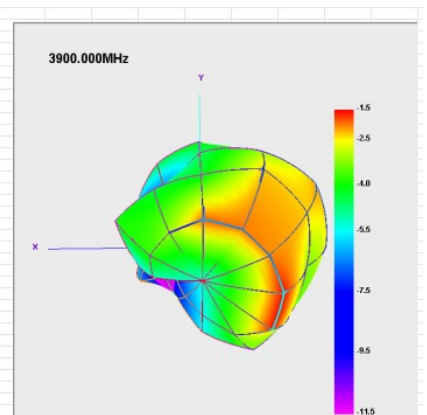
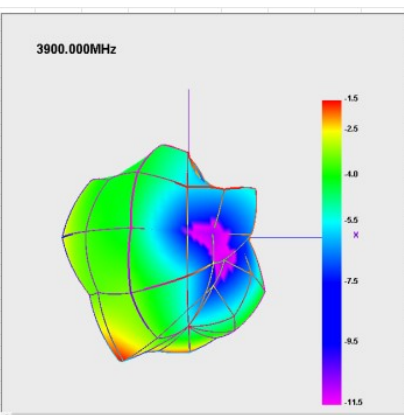
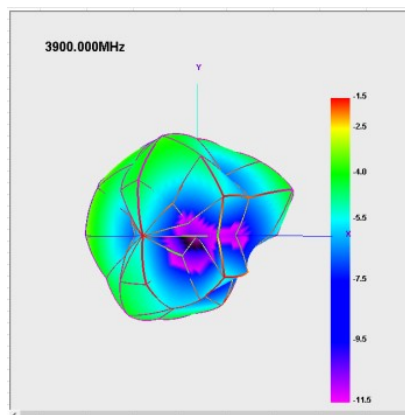
plane



E1 plane

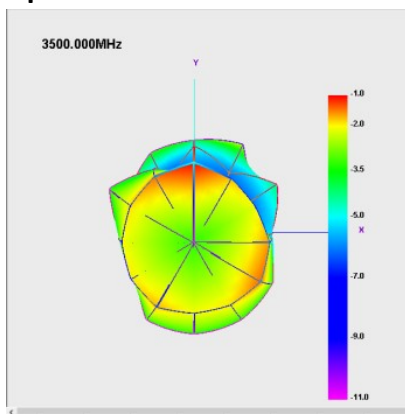


E2 plane

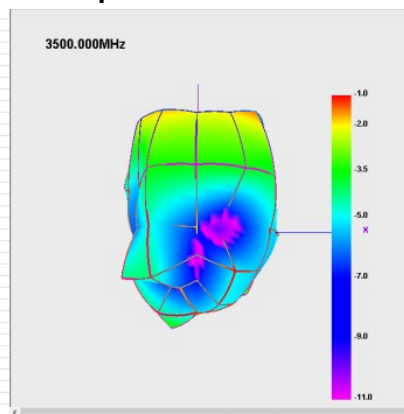


ANT7

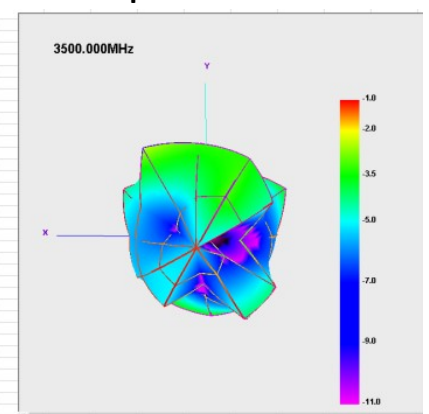
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E1 plane



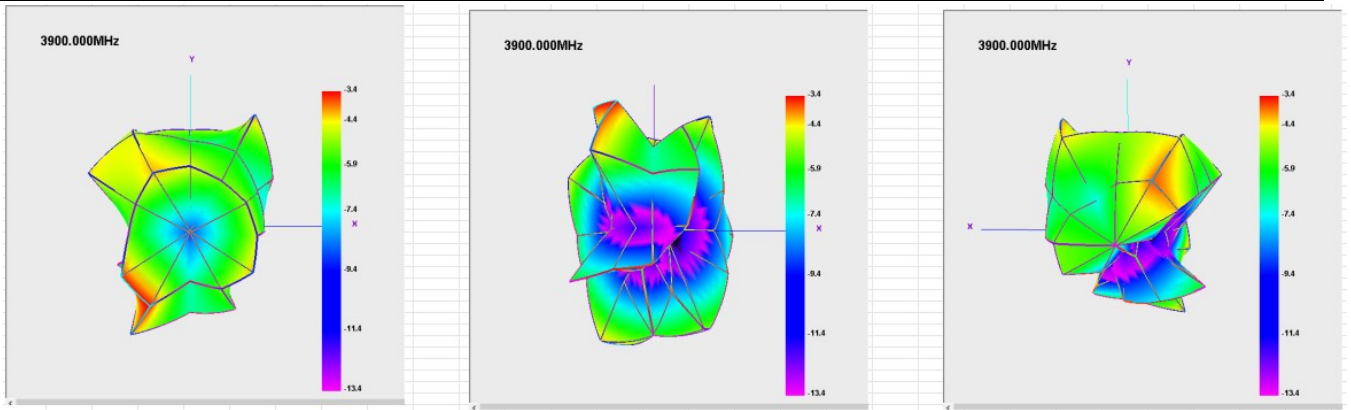
E2 plane



plane

E1 plane

E2 plane

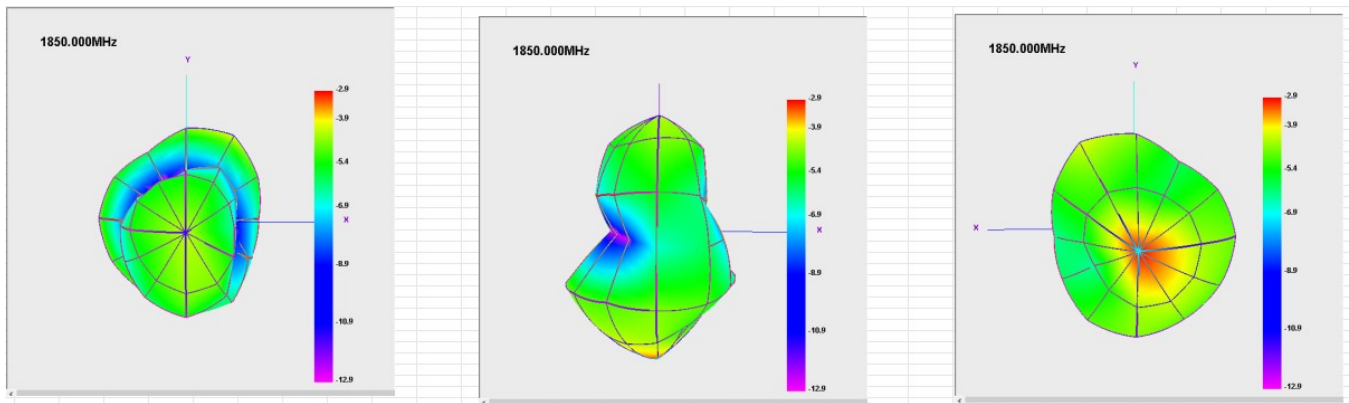


ANT8

plane

E1 plane

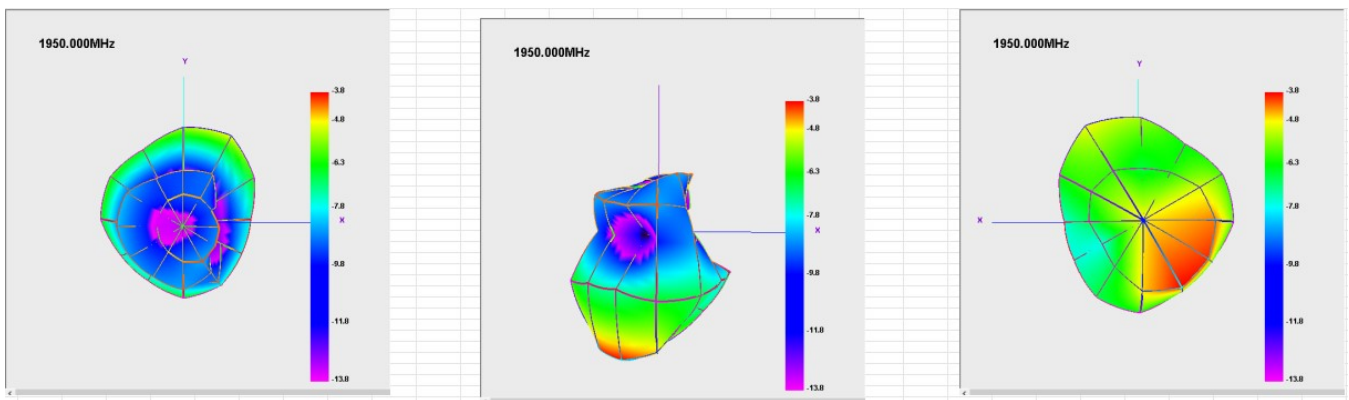
E2 plane



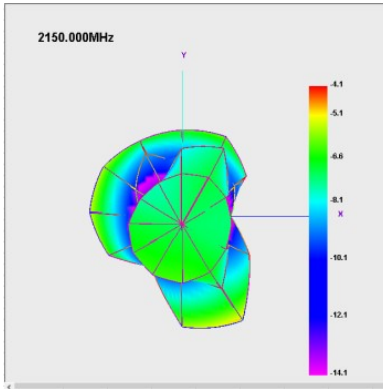
plane

E1 plane

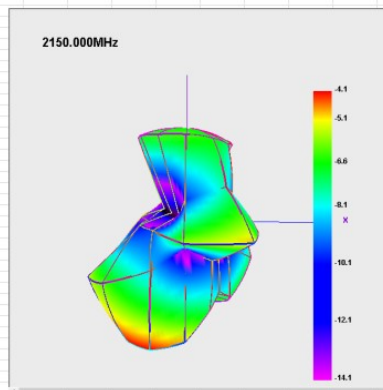
E2 plane



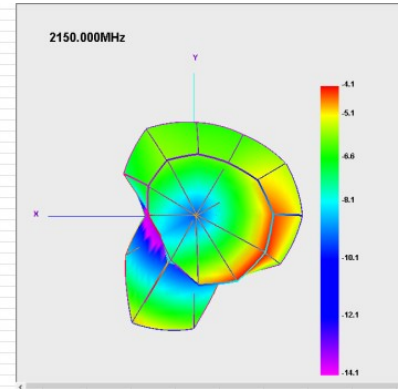
plane



E1 plane

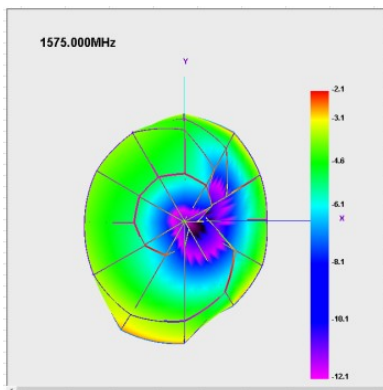


E2 plane

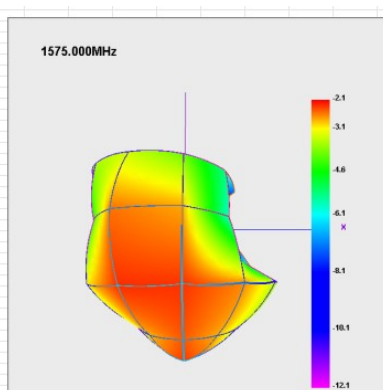


ANT9

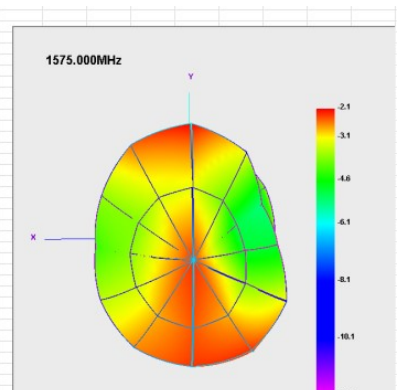
plane



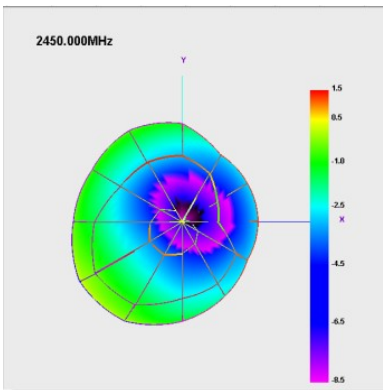
E1 plane



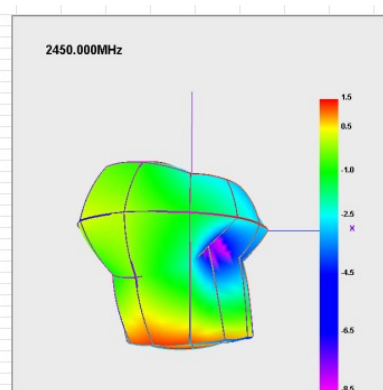
E2 plane



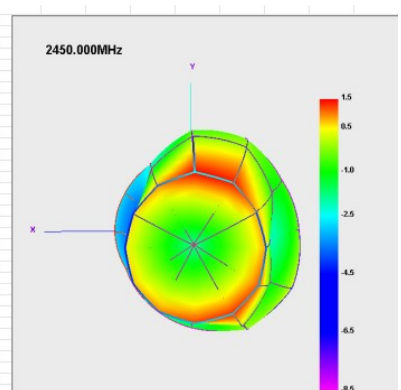
plane



E1 plane



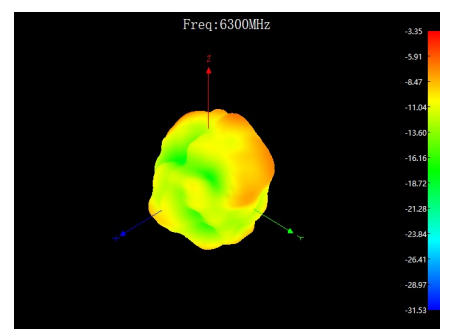
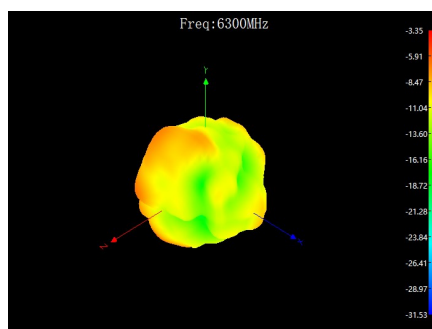
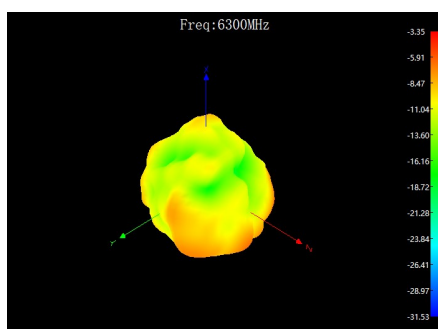
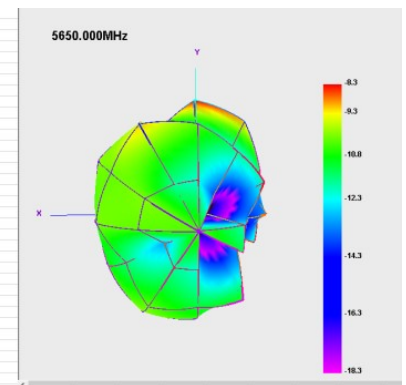
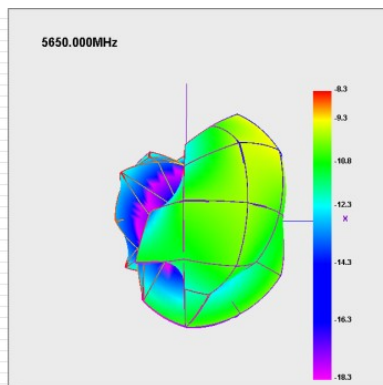
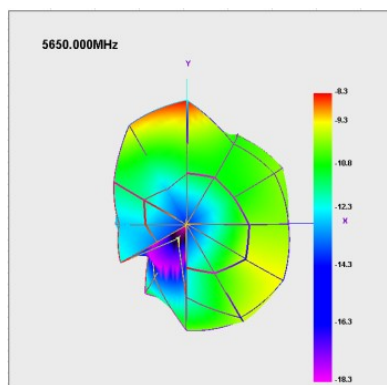
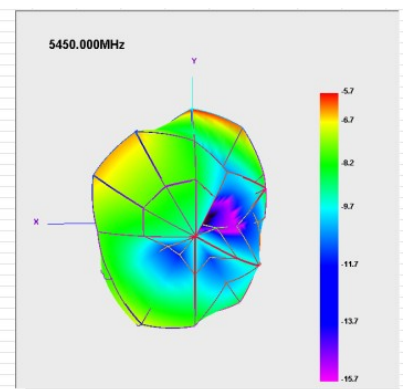
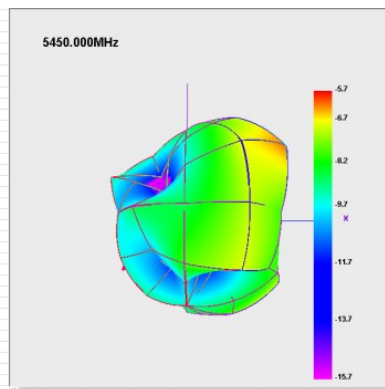
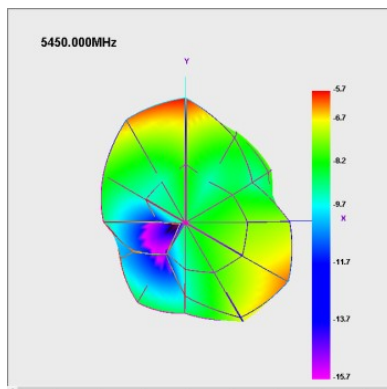
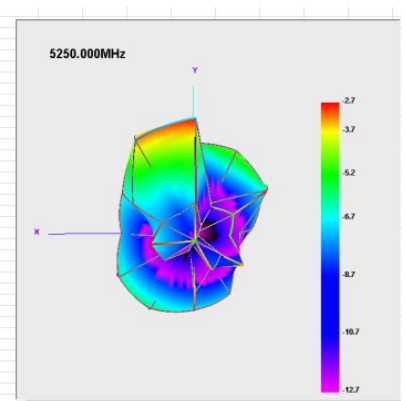
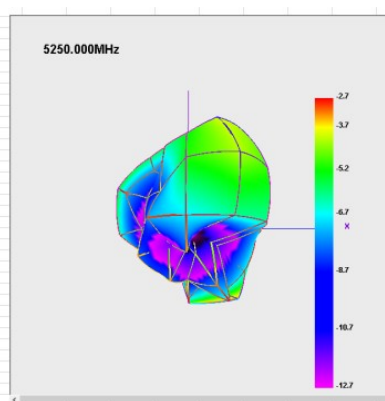
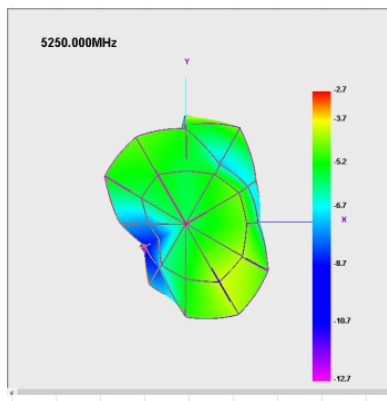
E2 plane

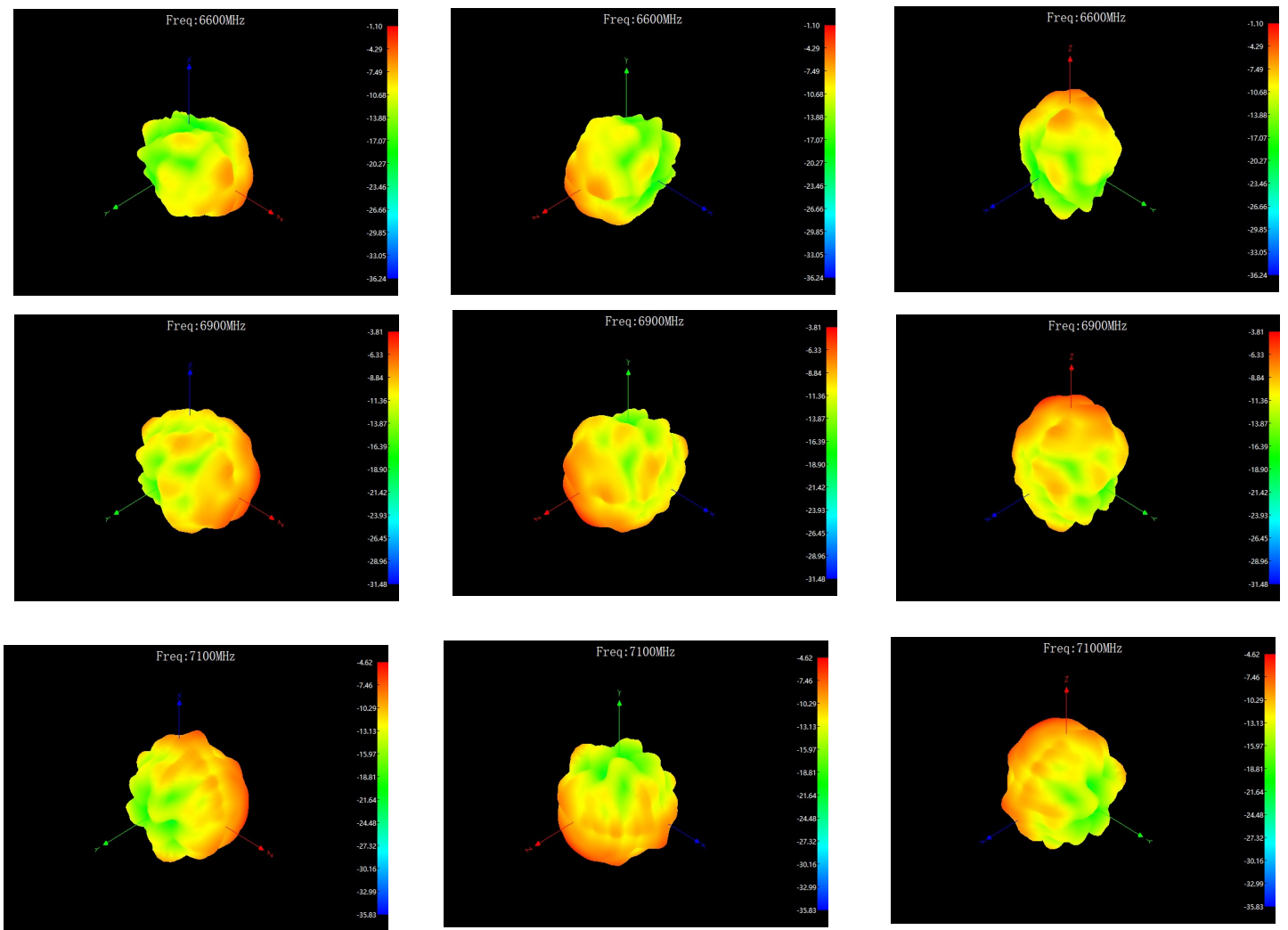


plane

E1 plane

E2 plane

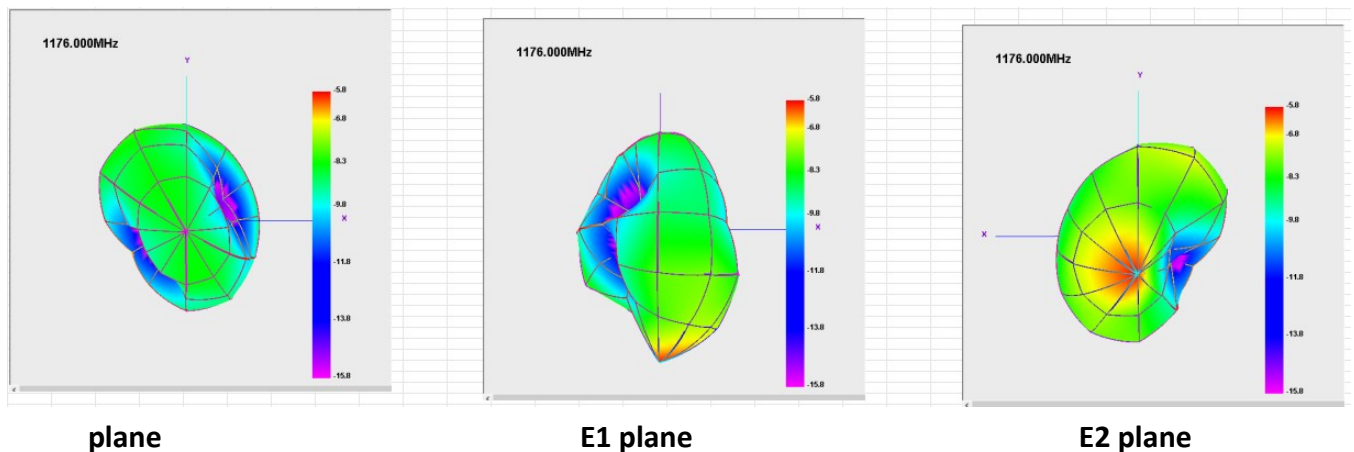


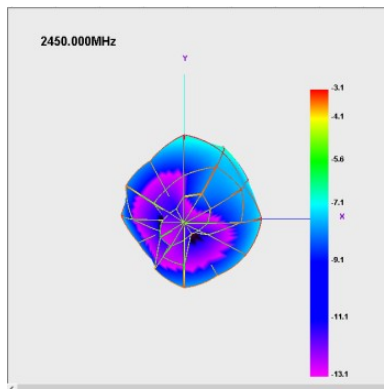


ANT10
plane

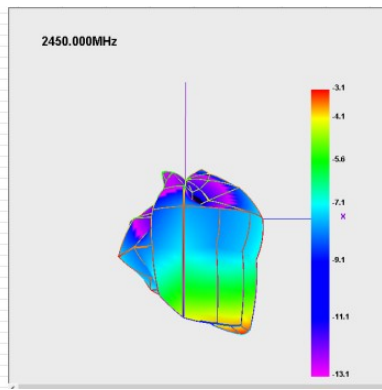
E1 plane

E2 plane

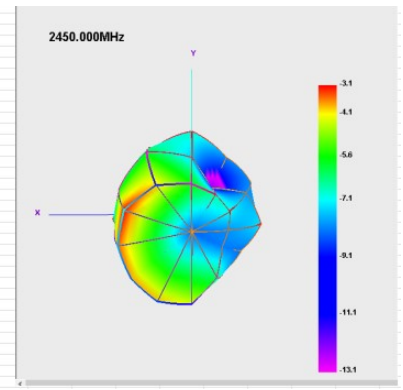




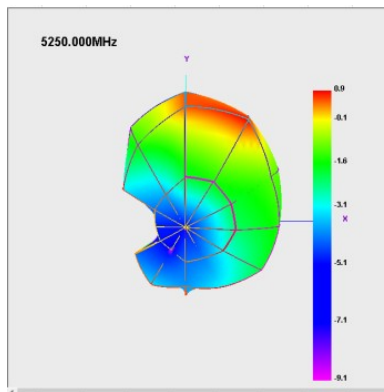
plane



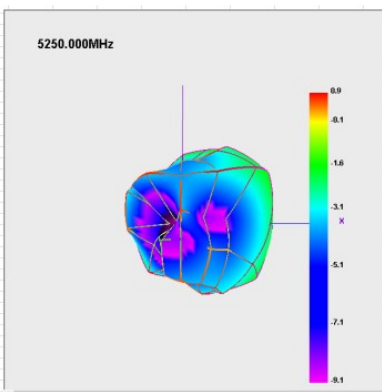
E1 plane



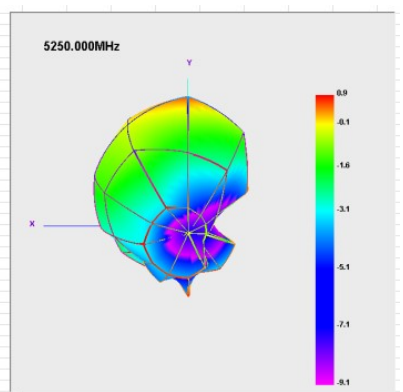
E2 plane



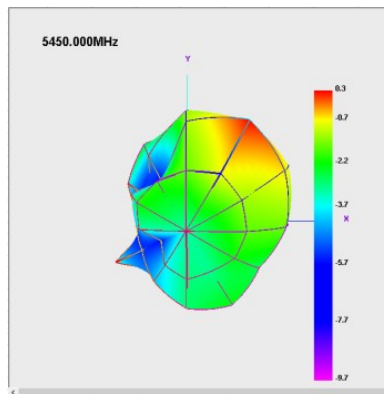
plane



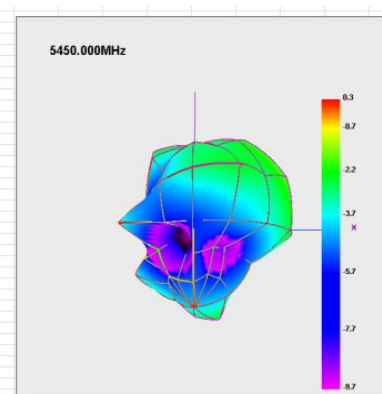
E1 plane



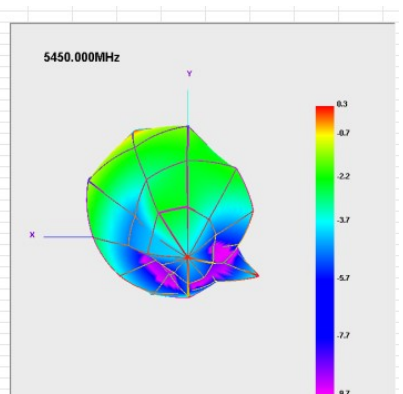
E2 plane



plane



E1 plane



E2 plane

Confidential Information

