

Customers: MengBo

Project name: 5516A

RF engineer: XuLong

Telephone: 15915343126

Report edition: 20230914

5516A project appearance



5516A project match

5516匹配

C9070 22NH

R9070 0欧姆

L9020 NC

R886 NC

R885 0欧姆

R883 NC

C884 NC

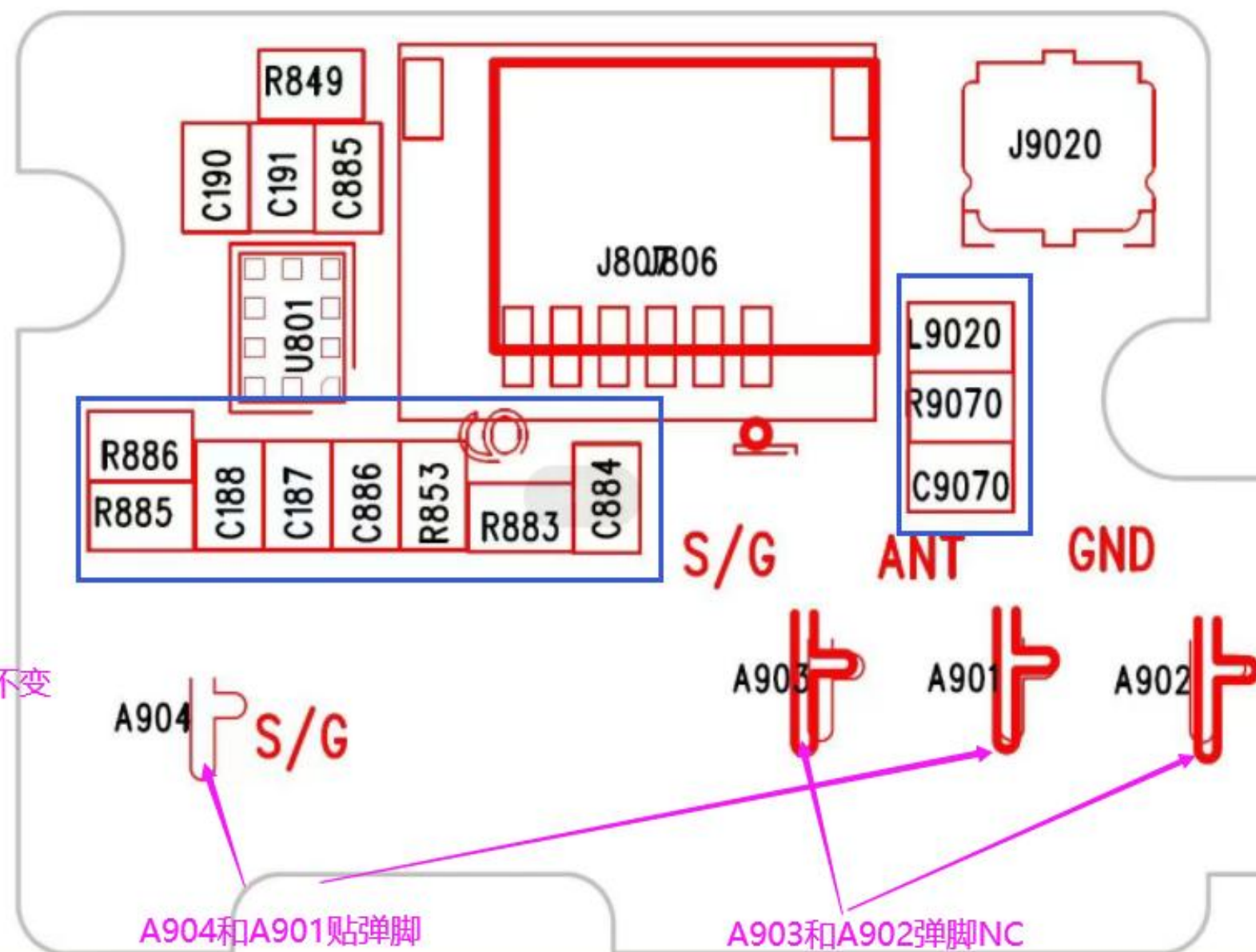
C886 0欧姆

R853 4.7NH

C187 22NH

C188 27NH

其它保持小板原有不变



● A Brief Introduction to debugging the project

Plate type	The whole machine						
Antenna Overview	The main antenna	Frequency band		Antenna status	Antenn a form	Design area	Match the changes
		2G	G2/3/5/8/W2/4/5	Gold-plated FPC	PIFA	The bottom of the phone	YES
		3G					
		4G	2/4/5/12/17/66/71/TD D41				
		5G	N/A				
	Other antennas	BT/WIFI	2. 4G	Gold-plated FPC	PIFA	Top of the phone	No
		GPS	1575. 42MHZ				No
		Diversity	N/A	Gold-plated FPC	PIFA	Top of the phone	No
Prototype status	5516ADebugging machine		Environmental treatment				

5516A Switching frequency division

5516AS witching frequency division RF switching frequency division is as follows:			
Frequency band	Switch channel	Match	Notes
GSM2/3/8/W2/4/FDD2/4/66/ TDD41	RF1 (C886)	0 Ω	
GSM5/W5/FDD5 (850MHZ)	RF2 (R853)	4. 7NH	
FDD12/17	RF3 (C187)	22NH	
B71	RF4 (C188)	27NH	
	R885	0 Ω	
	R883/R886	NC	

ANWEI ANT TRP&TIS parameter Summary of 5516A						
BAND	GSM900			DCS1800		
CHANNEL	1	62	124	512	698	885
TRP (dBm)	26.35	26.24	26.12	24.56	25.13	25.26
TIS (dBm)			-101.3			-103.2
BAND	GSM850			PCS1900		
CHANNEL	128	190	251	512	661	810
TRP (dBm)	25.64	26.27	26.31	25.24	25.32	25.14
TIS (dBm)			-101.2			-102.6
BAND	WCDMA850			WCDMA1700		
CHANNEL	4132	4183	4233	1312	1413	1513
TRP (dBm)	16.51	16.49	16.38	17.54	17.42	17.51
TIS (dBm)			-101.6			-102.7
BAND	WCDMA1900			WCDMA900		
CHANNEL	9262	9400	9538	2937	3013	3088
TRP (dBm)	17.41	17.52	17.48			
TIS (dBm)			-102.6			

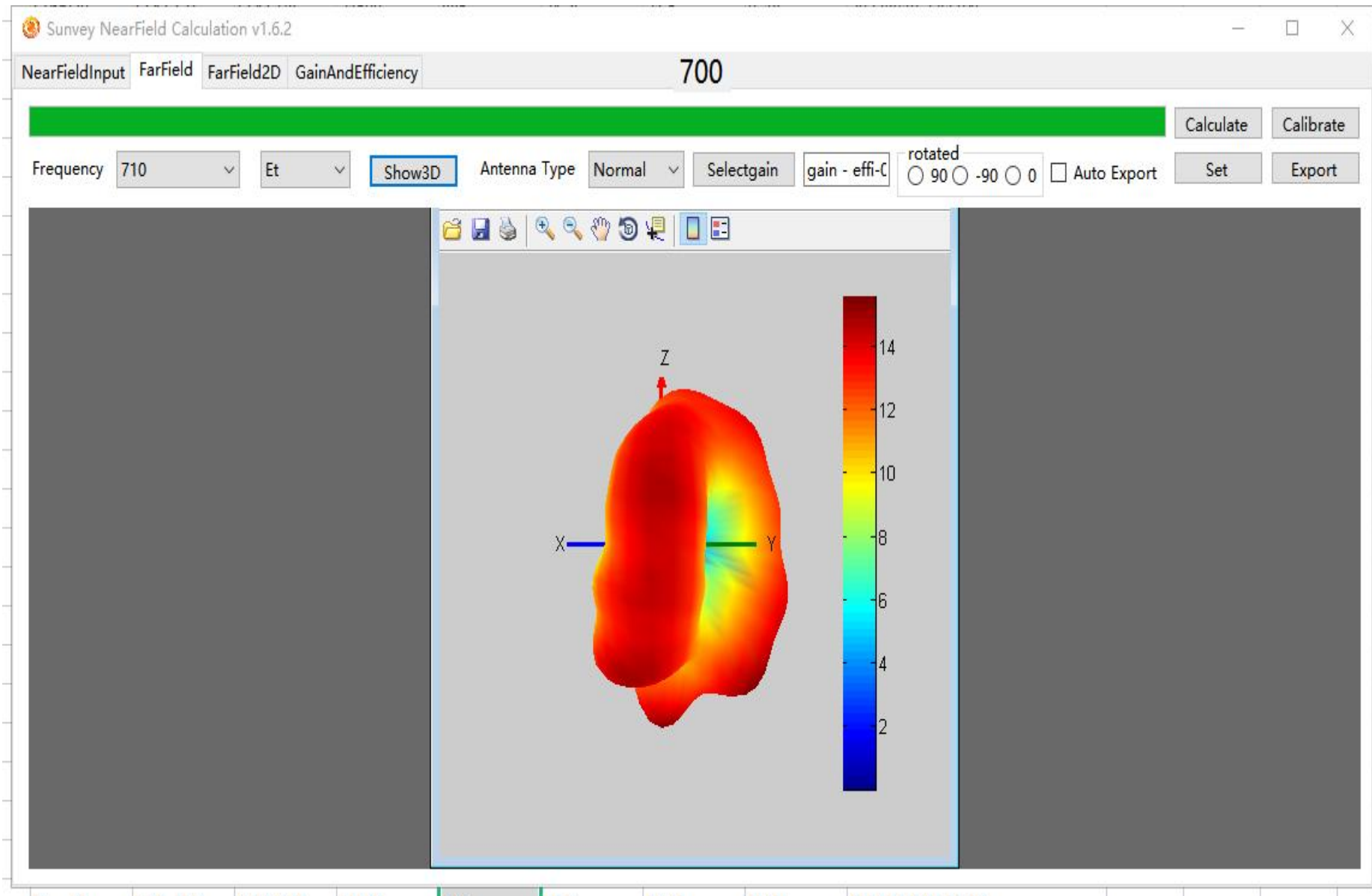
ANWEI ANT TRP&TIS parameter Summary of 5516A						
BAND	FDD-2			FDD-4		
CHANNEL	18650	18900	19150	20000	20175	20350
TRP (dBm)	17. 23	17. 34	17. 46	17. 23	17. 36	17. 41
TIS (dBm)			-90. 38			-90. 51
BAND	FDD-5			FDD-12		
CHANNEL	20450	20525	20600	23060	23095	23130
TRP (dBm)	16. 53	16. 68	16. 78	16. 12	16. 23	16. 27
TIS (dBm)			-90. 12			-90. 21
BAND	FDD-17			FDD-66		
CHANNEL	23780	23790	23800	132022	132322	132622
TRP (dBm)	16. 21	16. 39	16. 41	17. 26	17. 41	17. 38
TIS (dBm)			-90. 32			-91. 13
BAND	FDD-71			TDD-41		
CHANNEL	133172	133297	133422	40340	40620	41140
TRP (dBm)	15. 12	15. 21	15. 34	17. 28	17. 35	17. 46
TIS (dBm)			-89. 56			-88. 45

Antenna gain

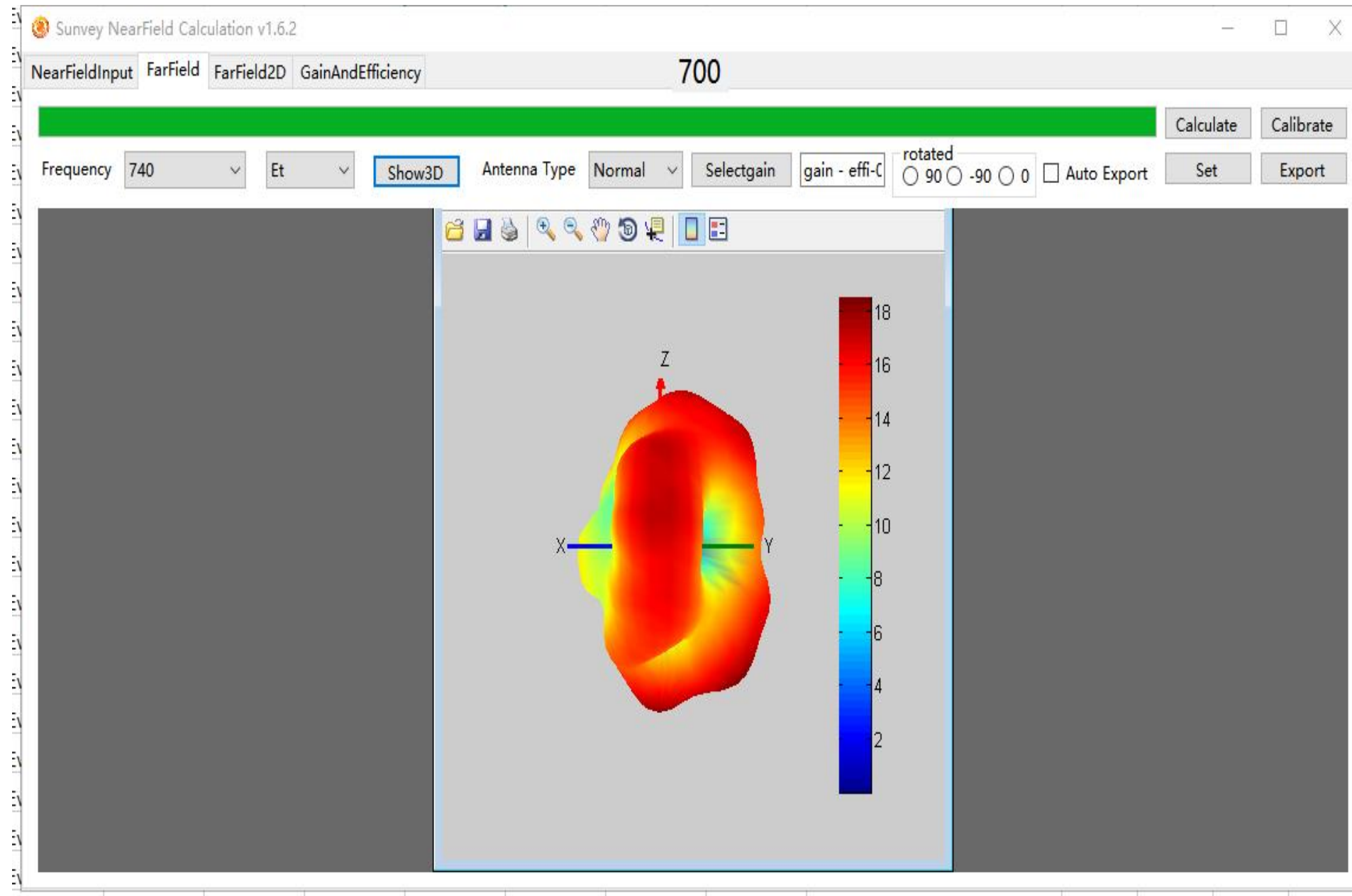
5516 Antenna Gain

频段Frequency	增益Gain(dB)
GSM850	-0.51
EGSM900	-0.48
DCS1800	-0.32
PCS1900	-0.34
W1700	-0.33
W850	-0.51
W1900	-0.34
FDD	
B2	-0.34
B4	-0.33
B5	-0.51
B12	-0.61
B17	-0.67
B66	-0.34
B71	-0.65
B41	-0.24
WIFI	-0.13
BT	-0.13
	以上单位为：dB

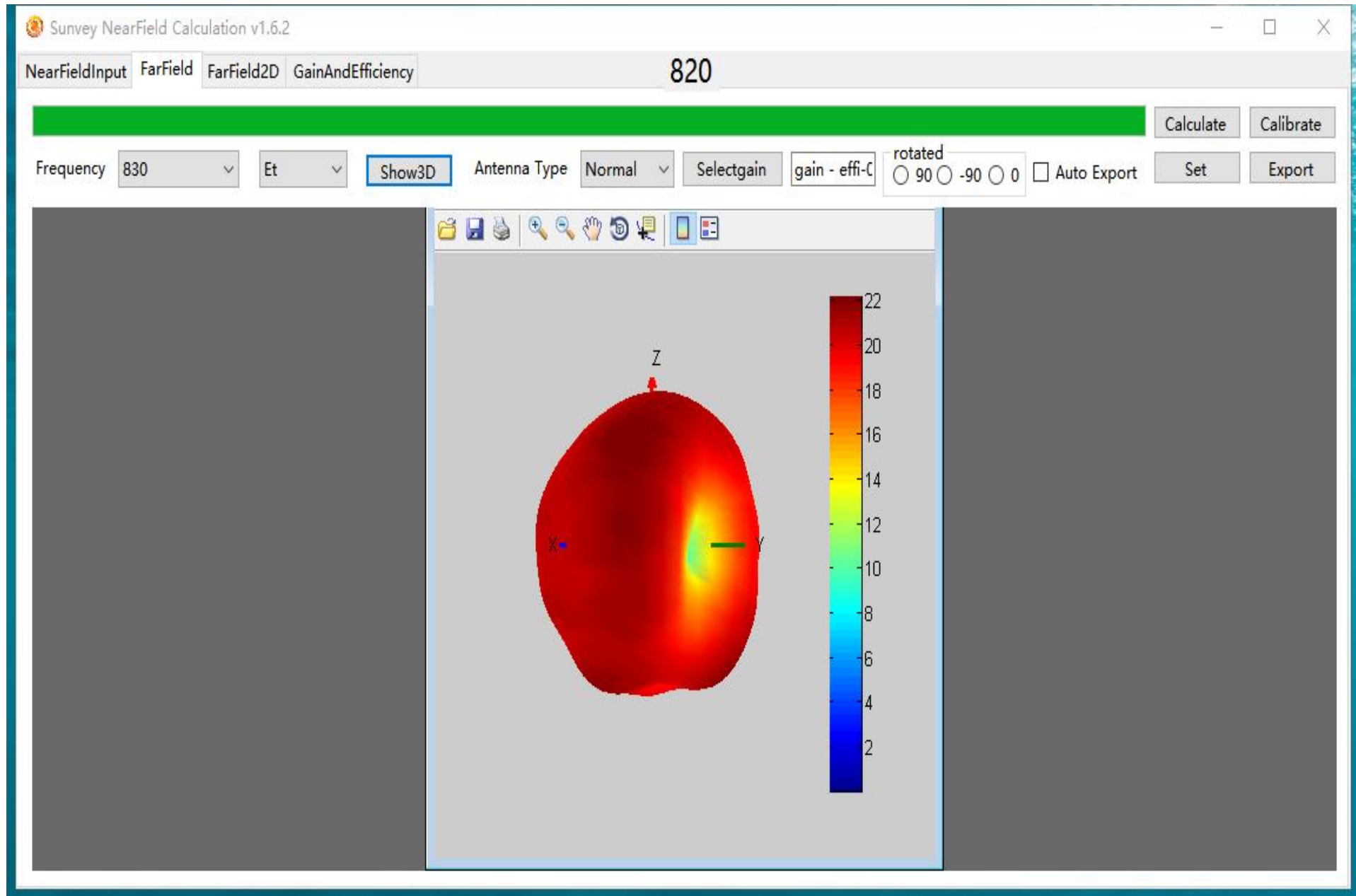
Main antenna apple diagramApple chart



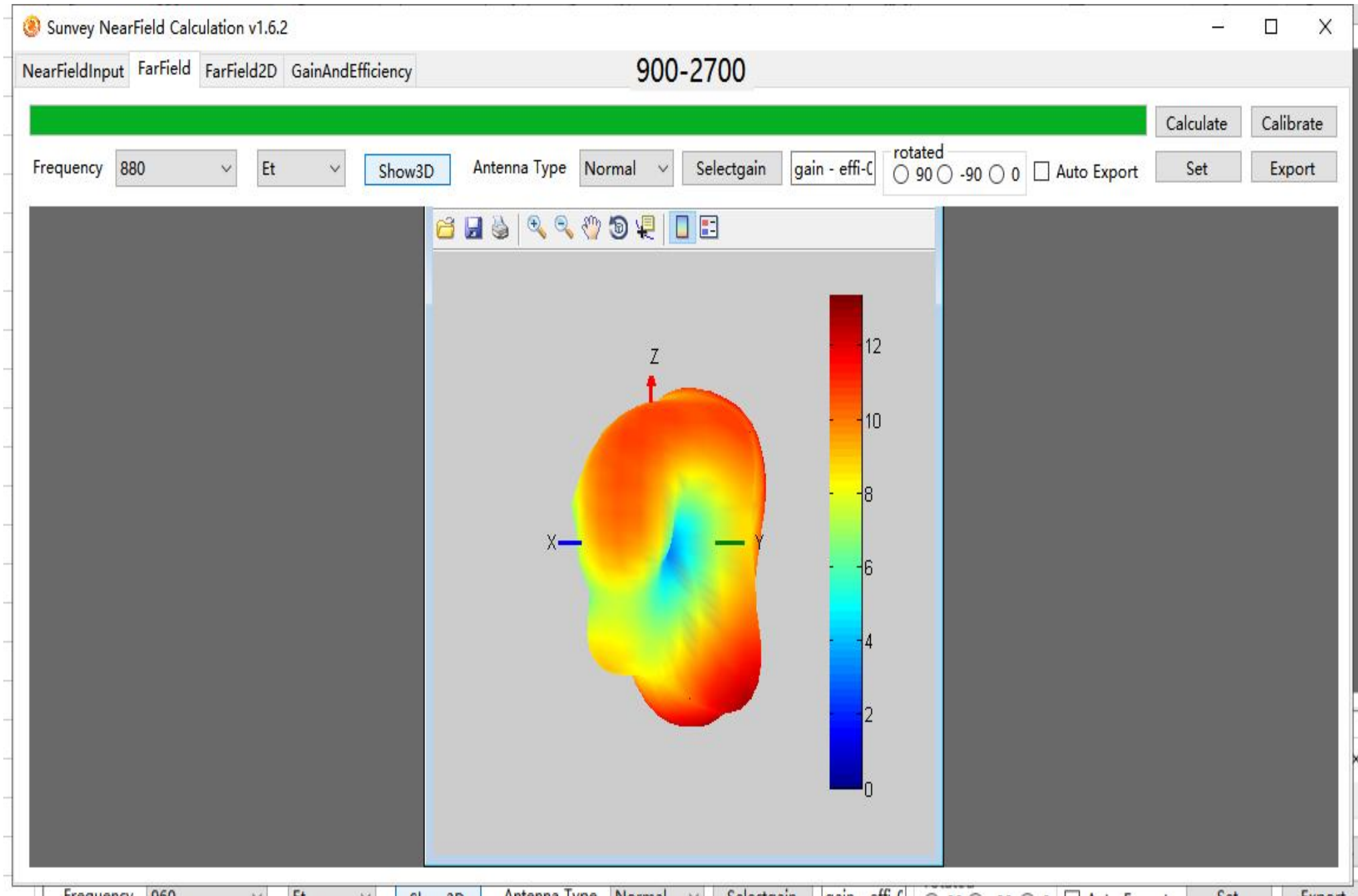
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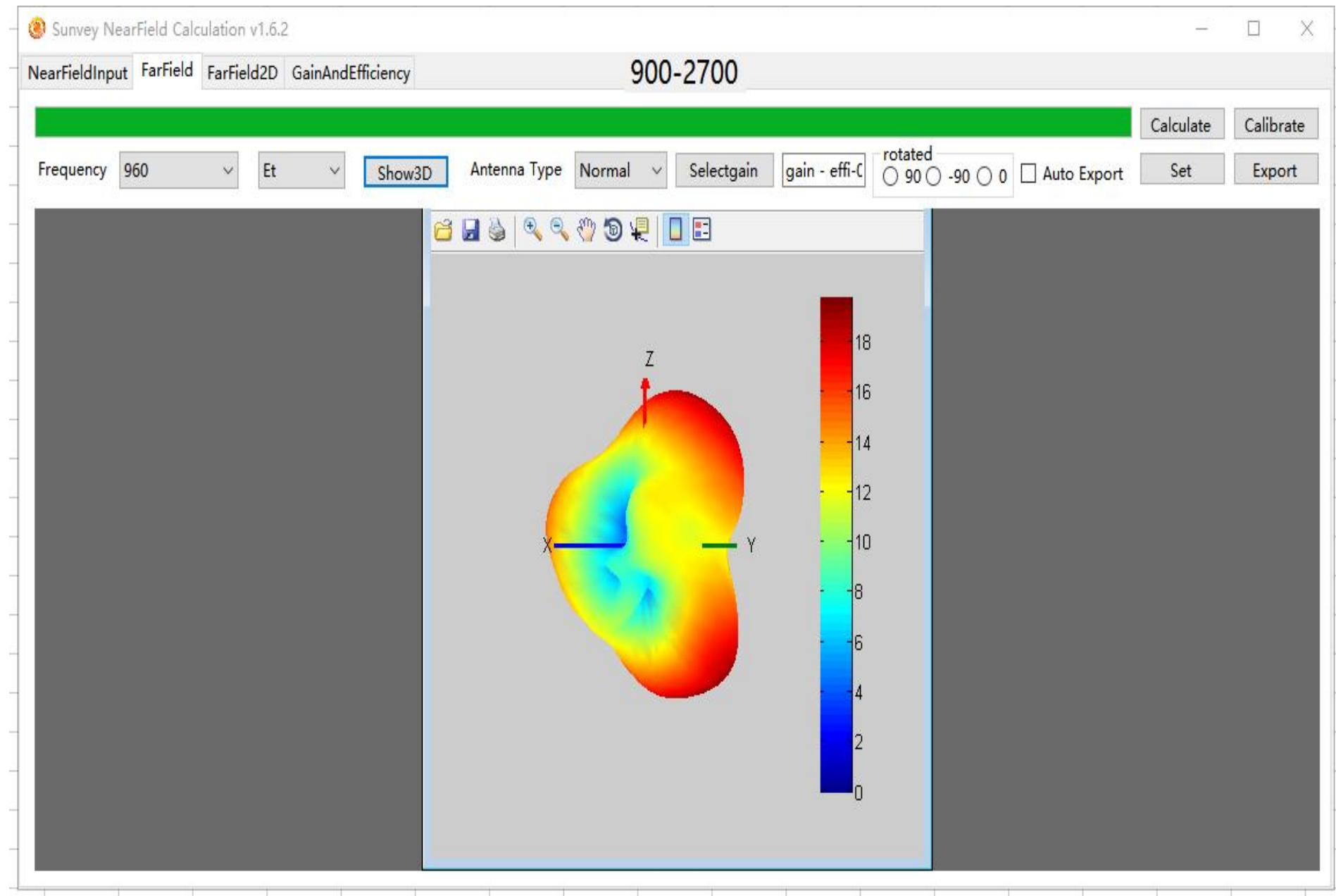
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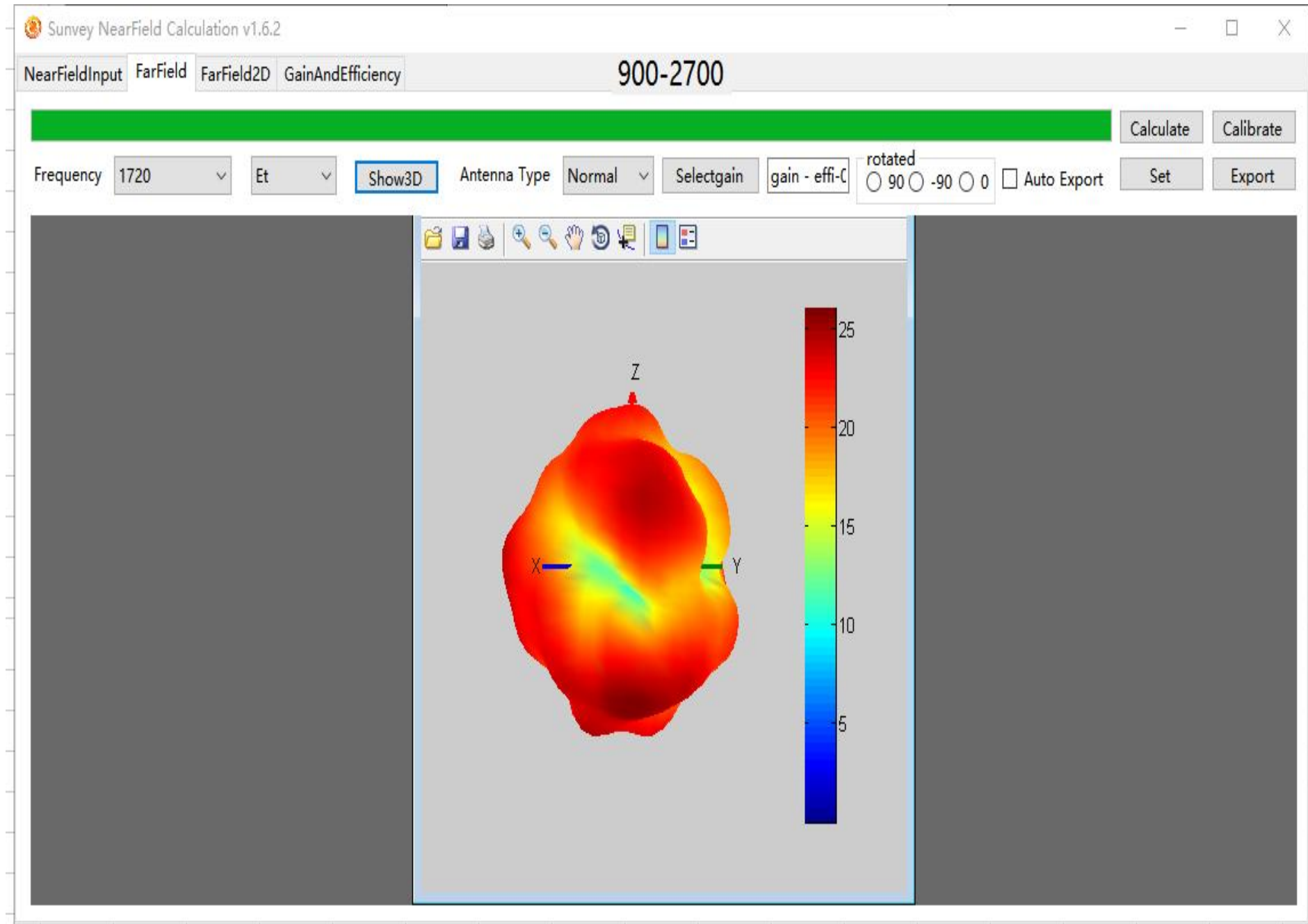
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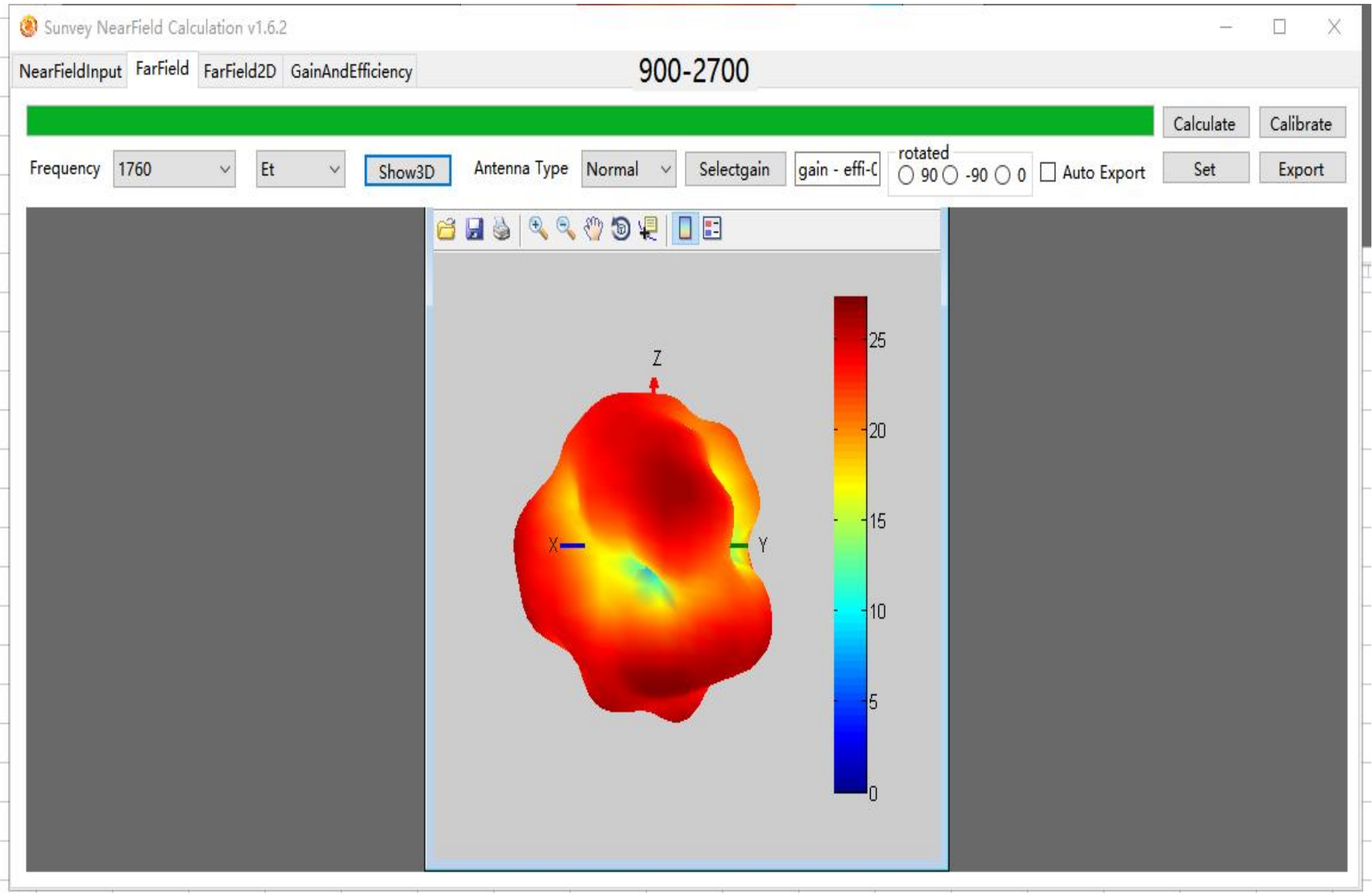
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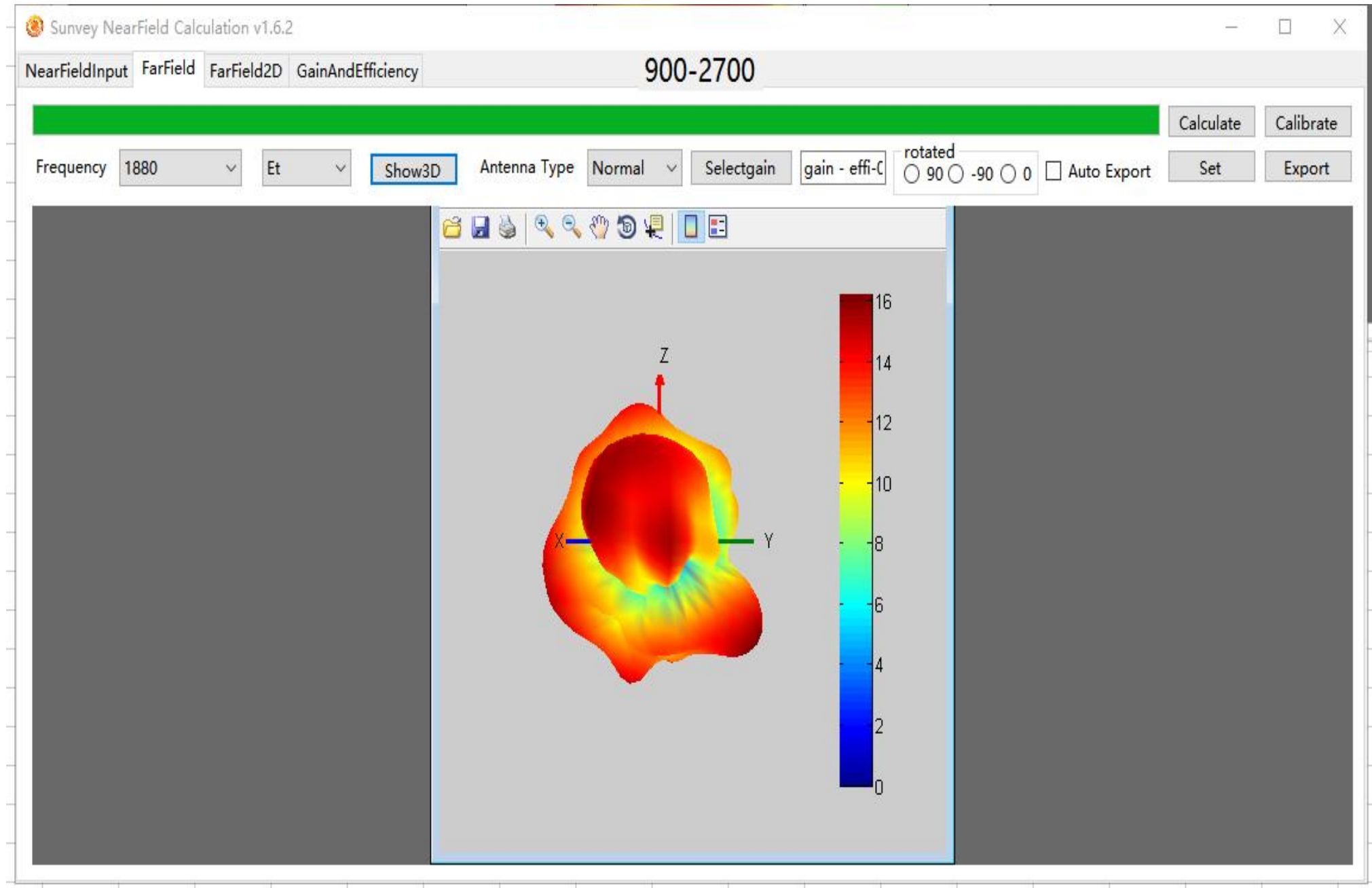
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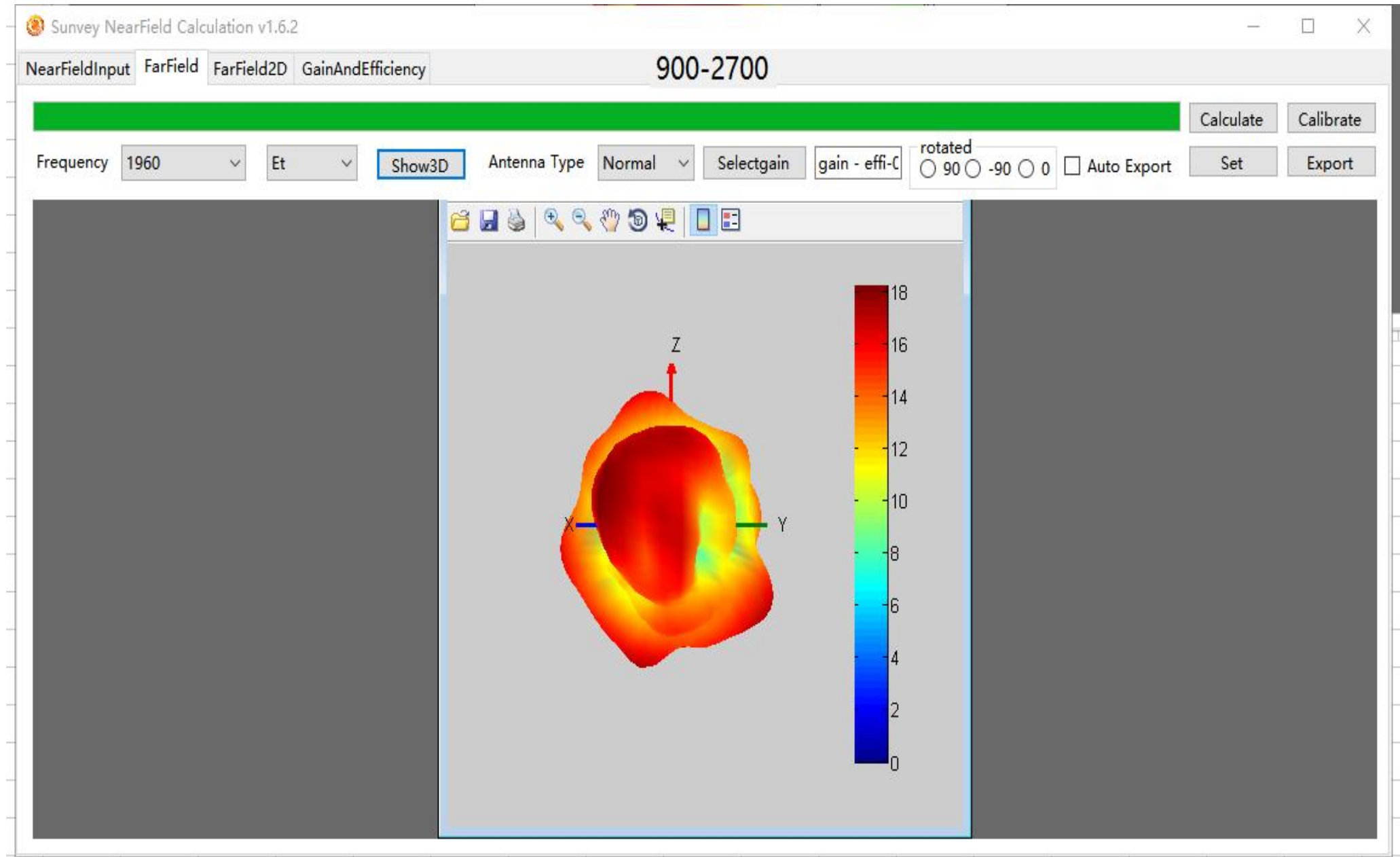
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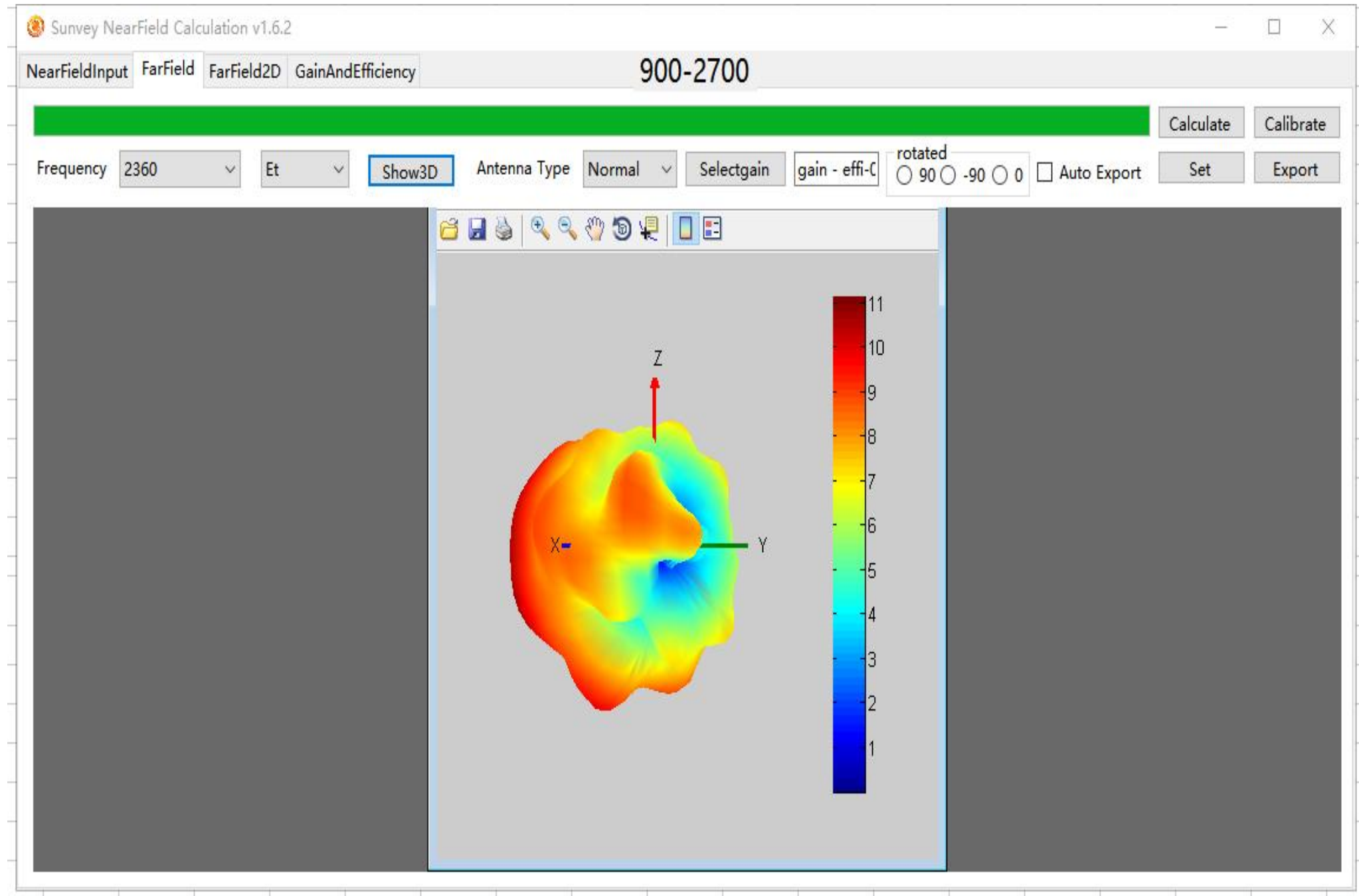
Main antenna apple diagramApple chart



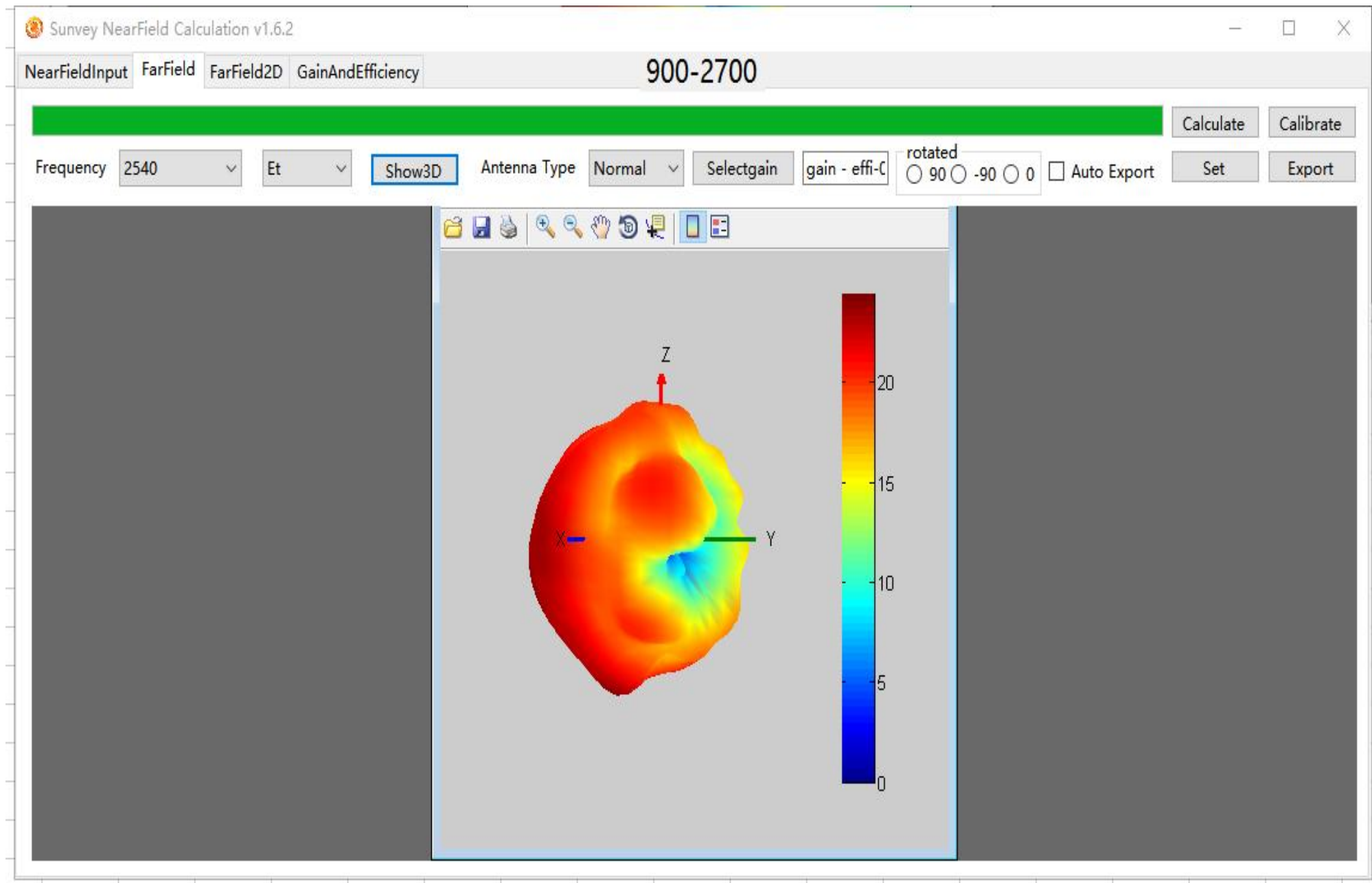
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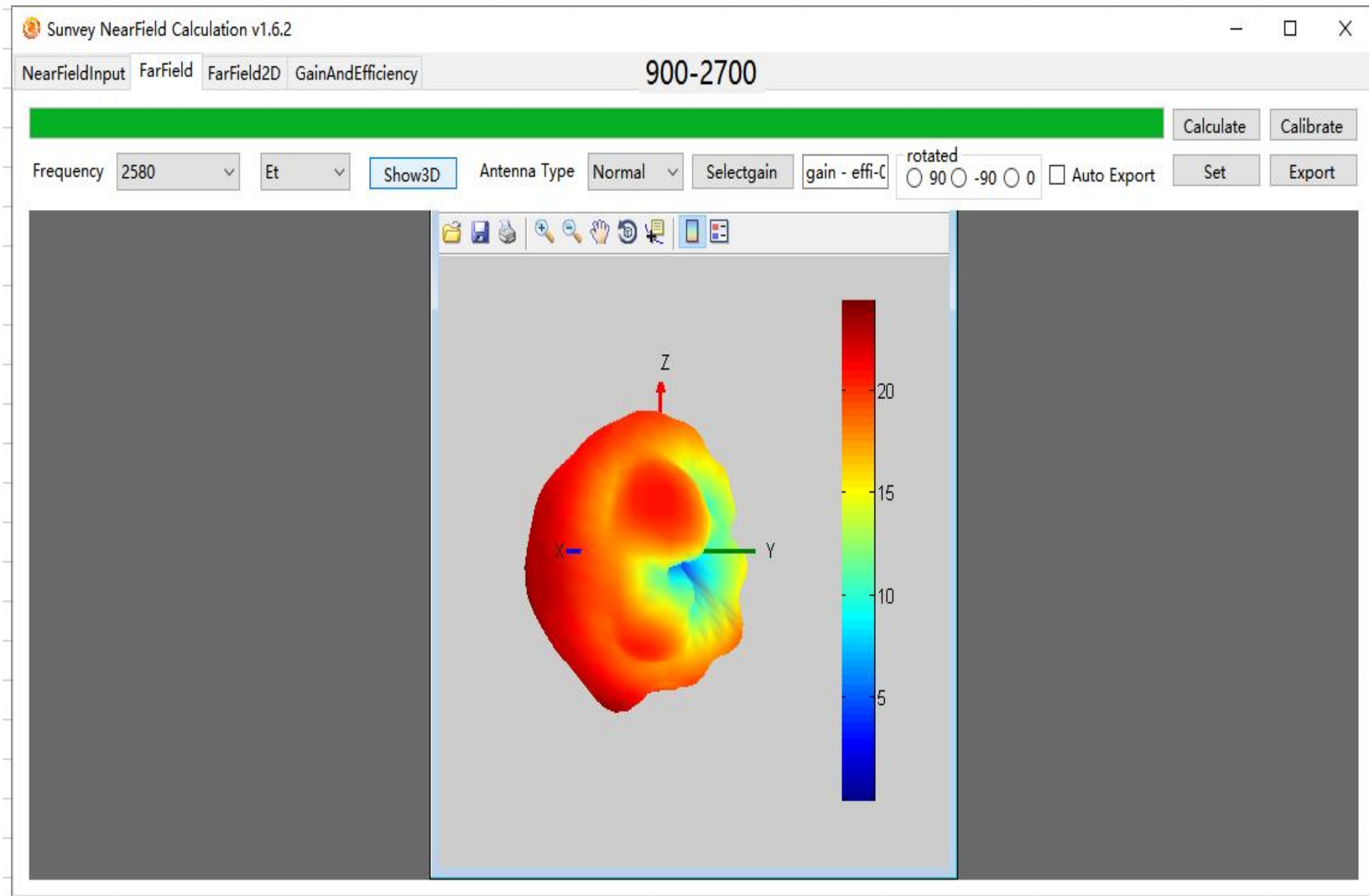
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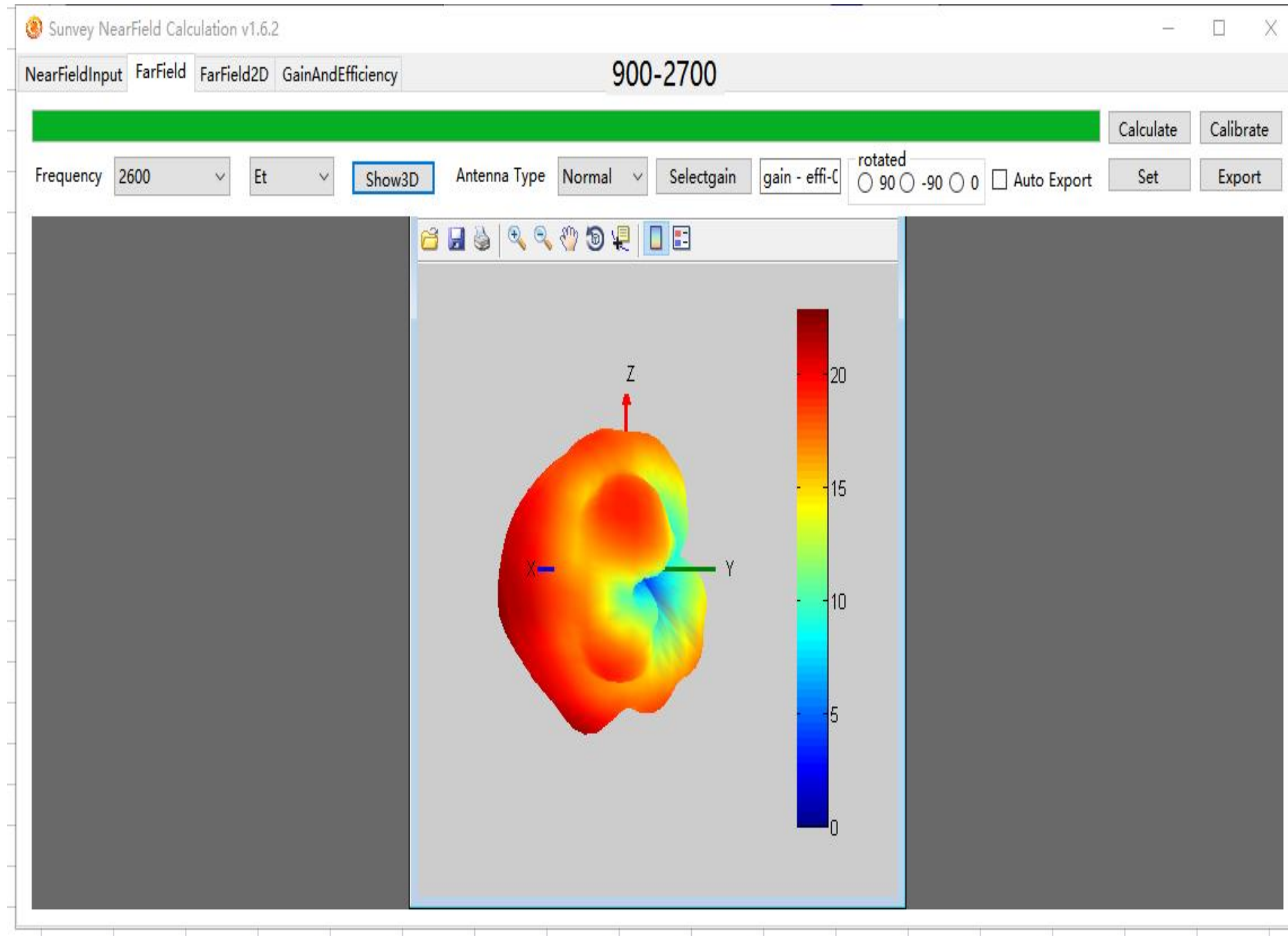
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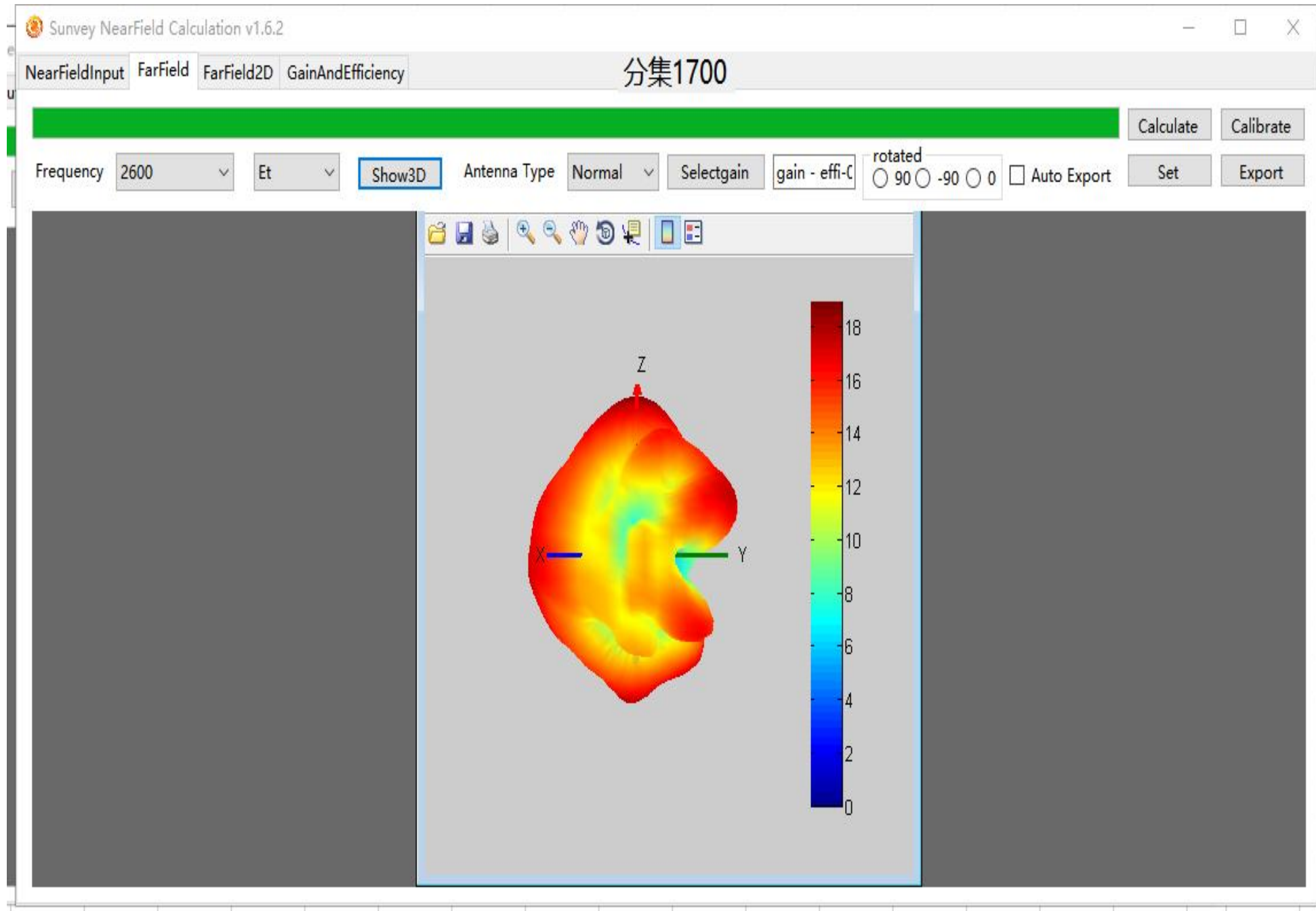
Main antenna apple diagramApple chart



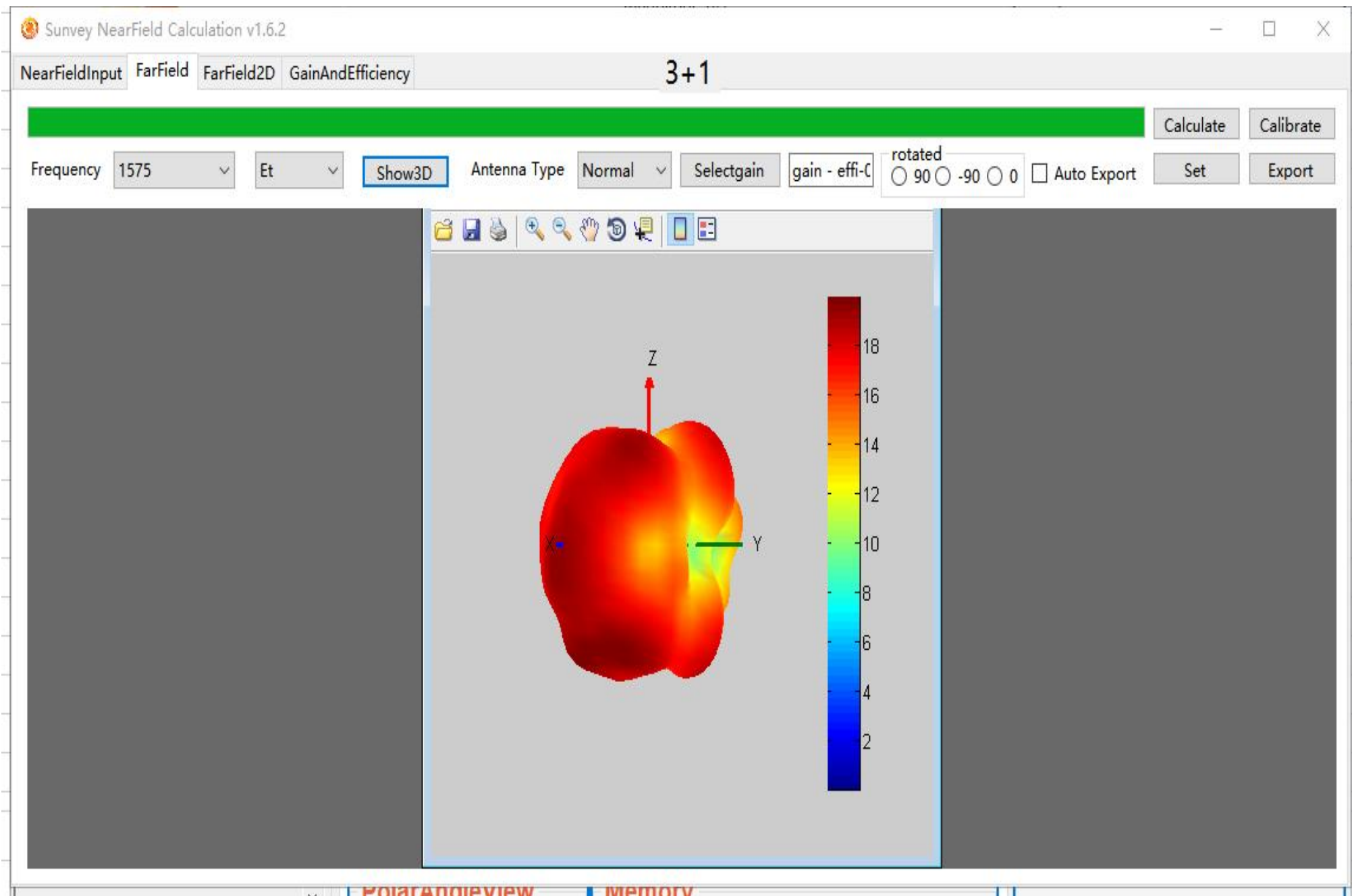
Main antenna apple diagramApple chart



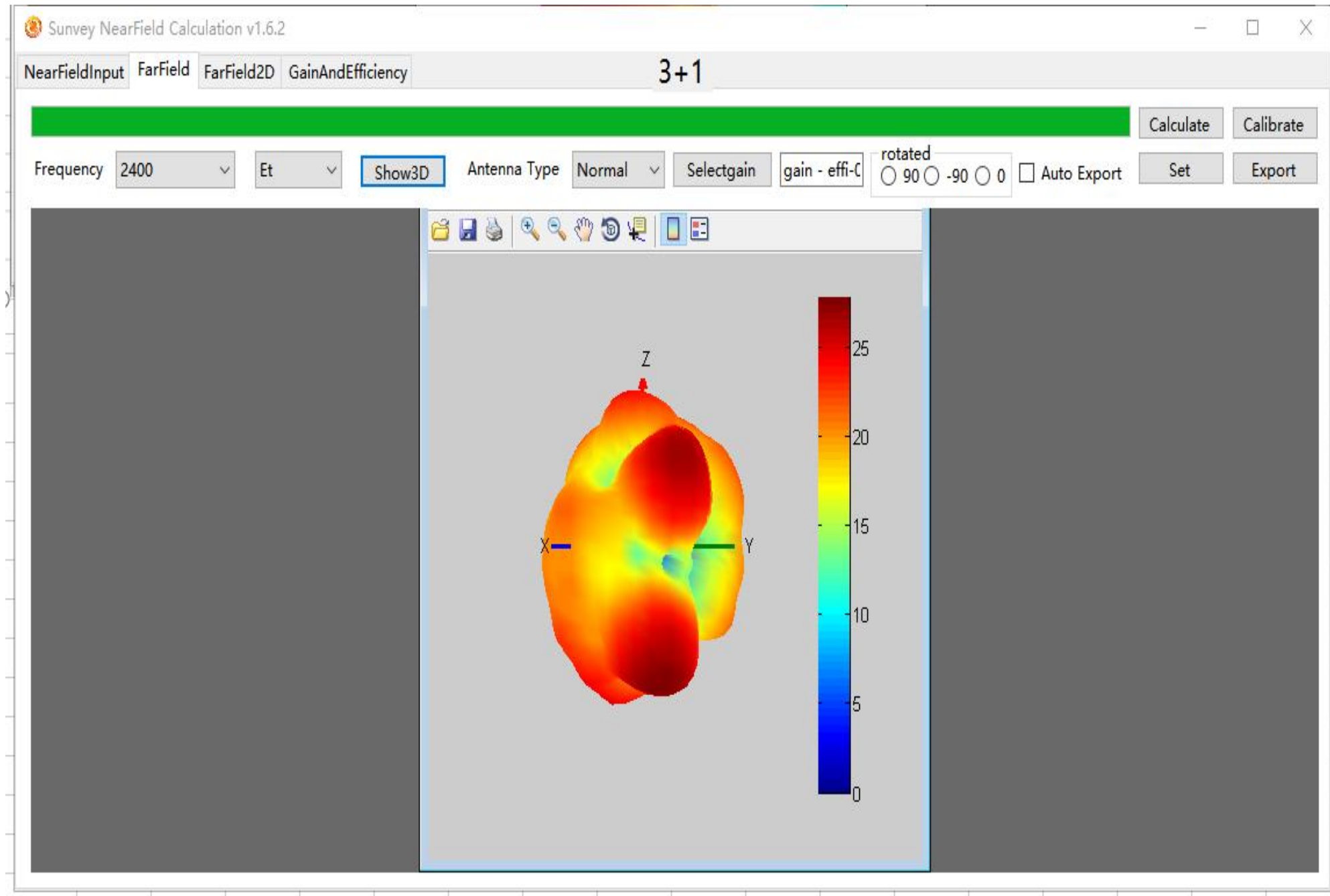
Diversity Antenna Apple diagram



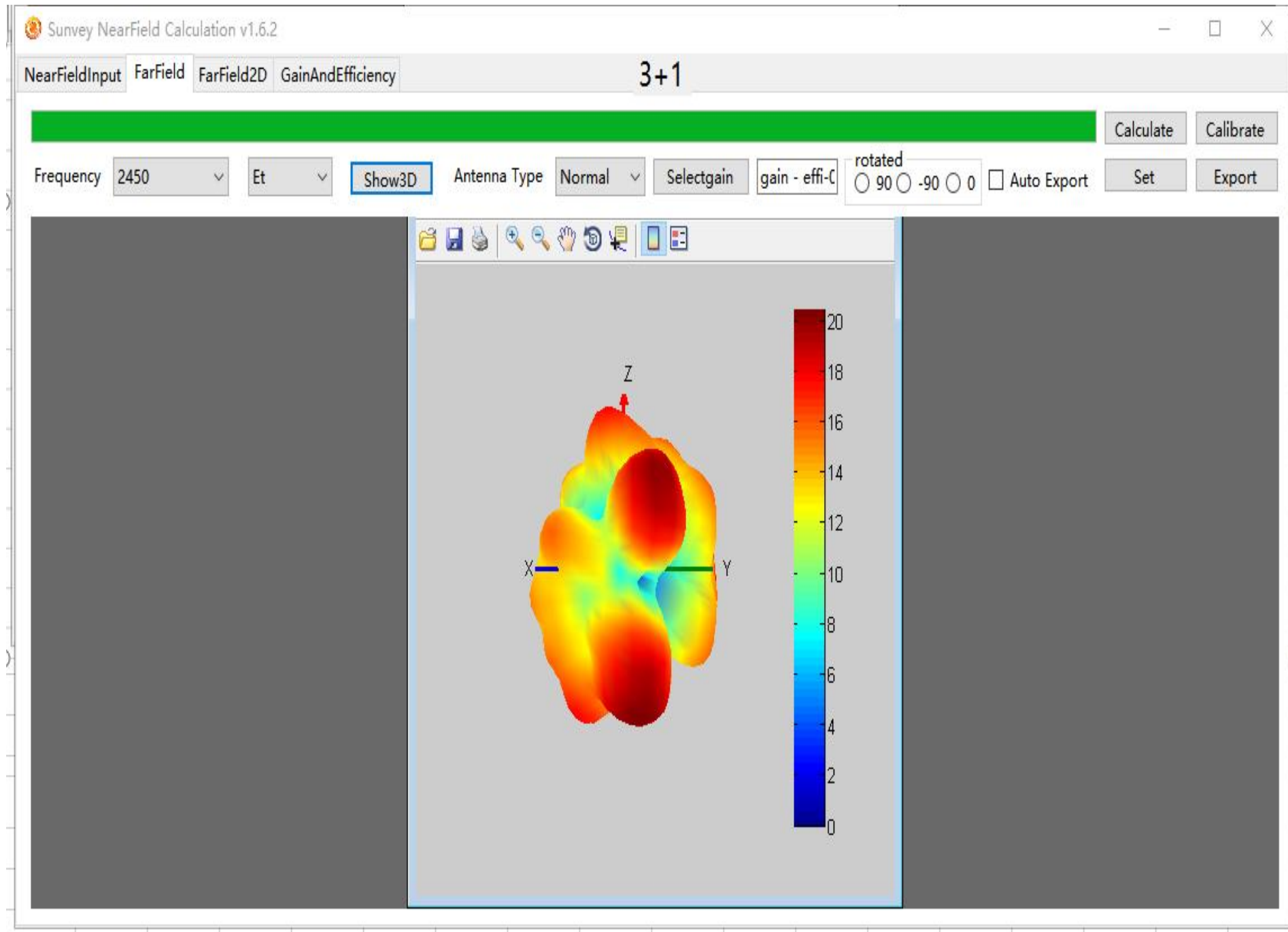
GWB antenna apple diagram



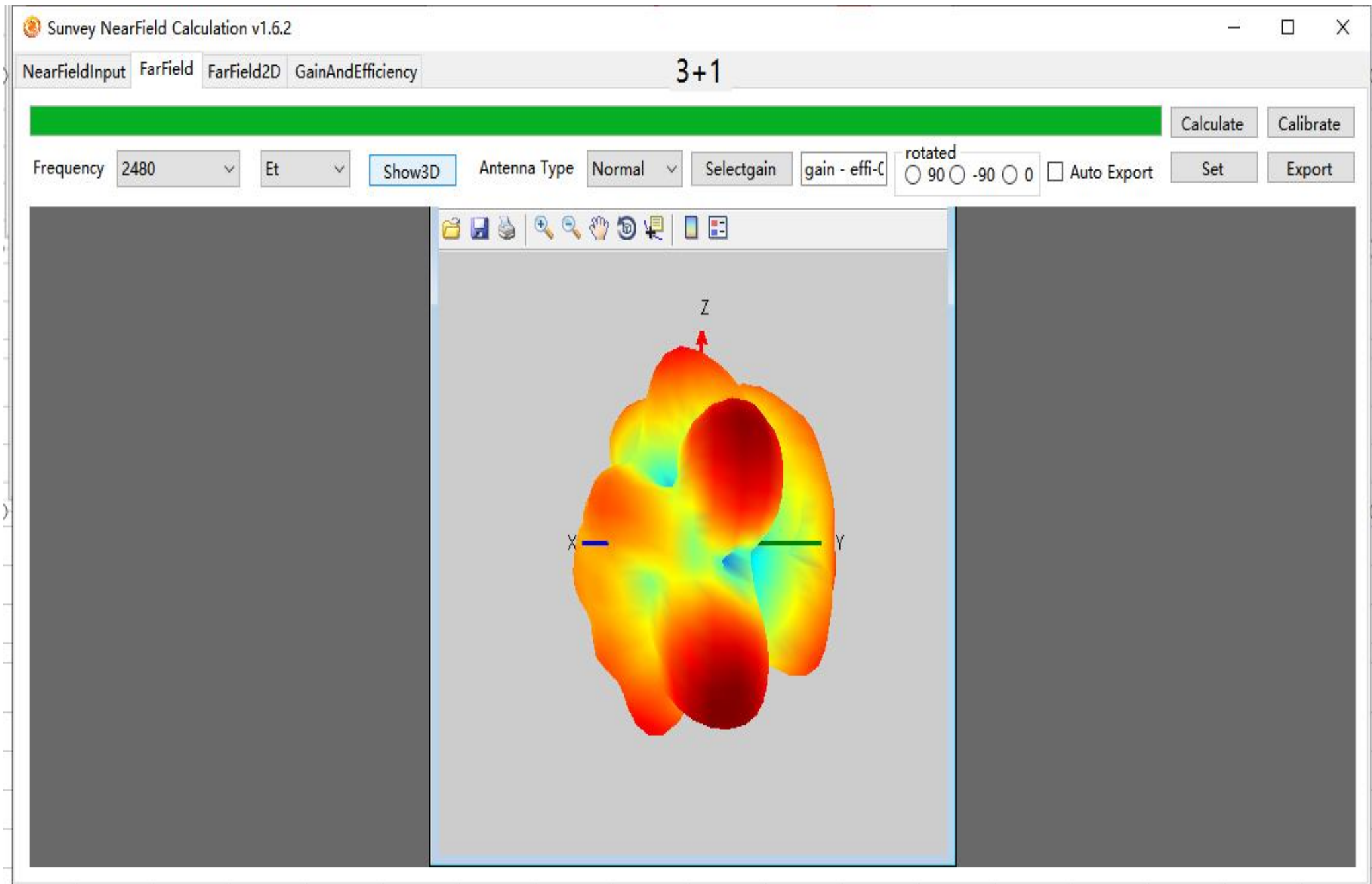
GWB antenna apple diagram



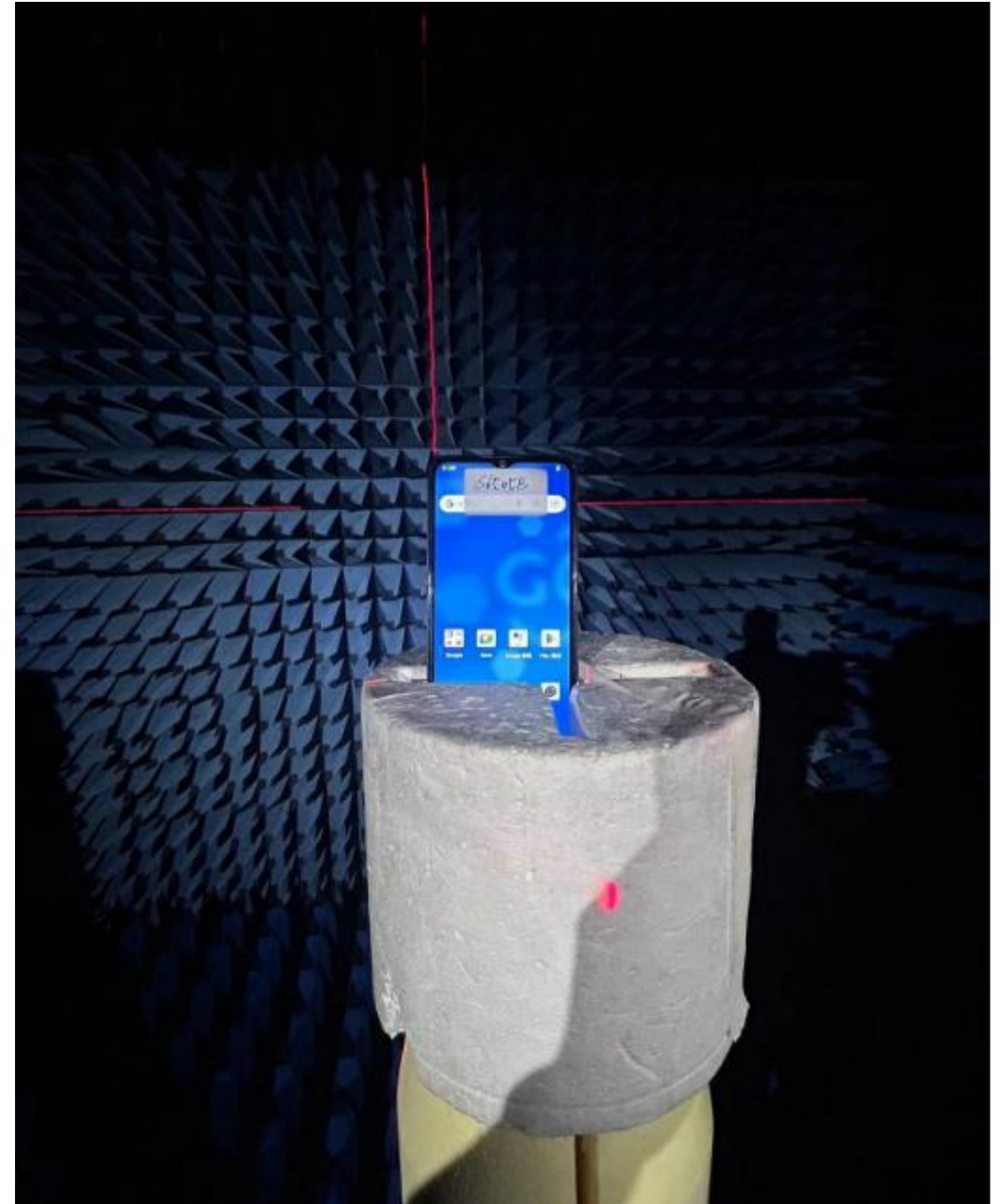
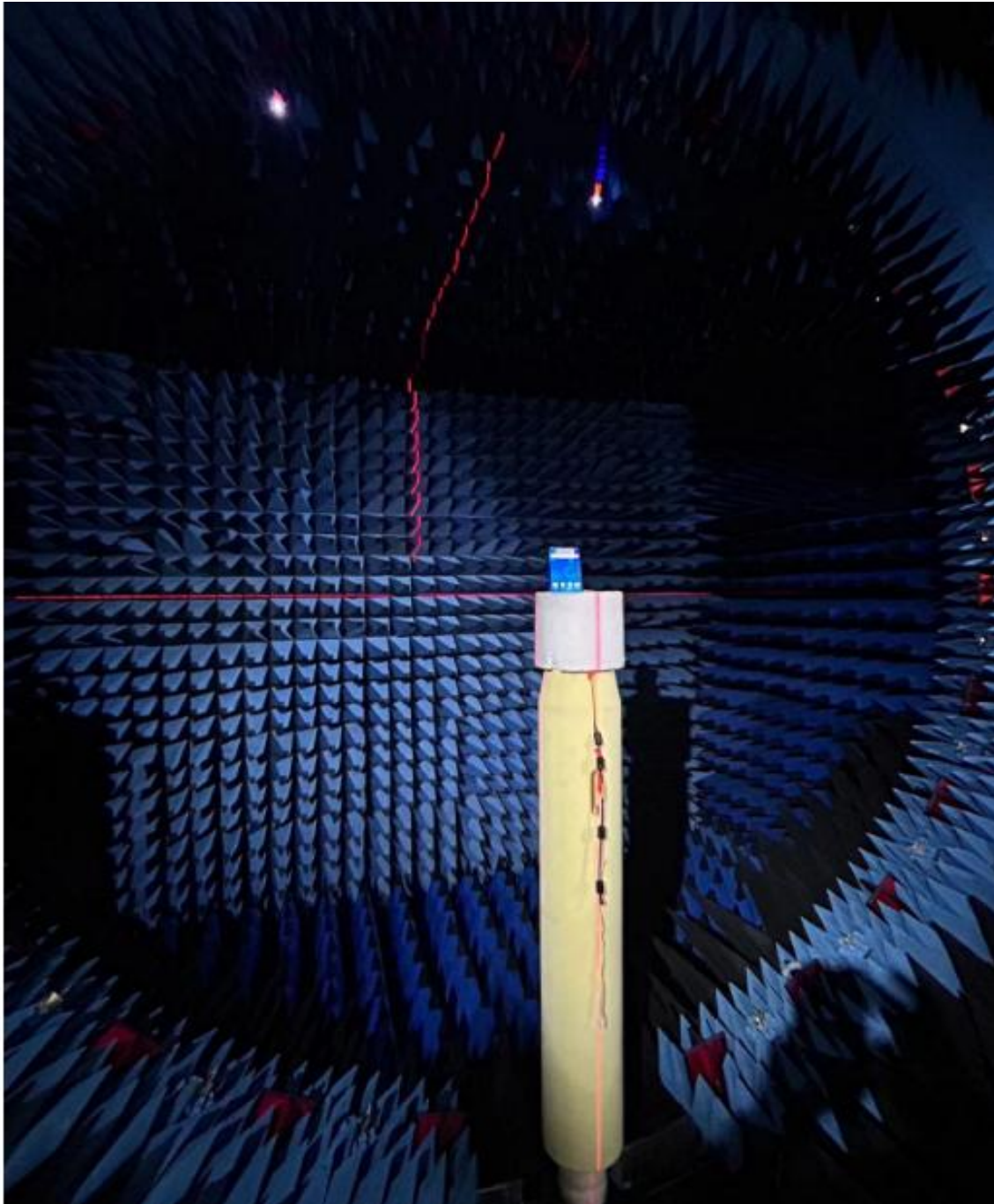
GWB antenna apple diagram



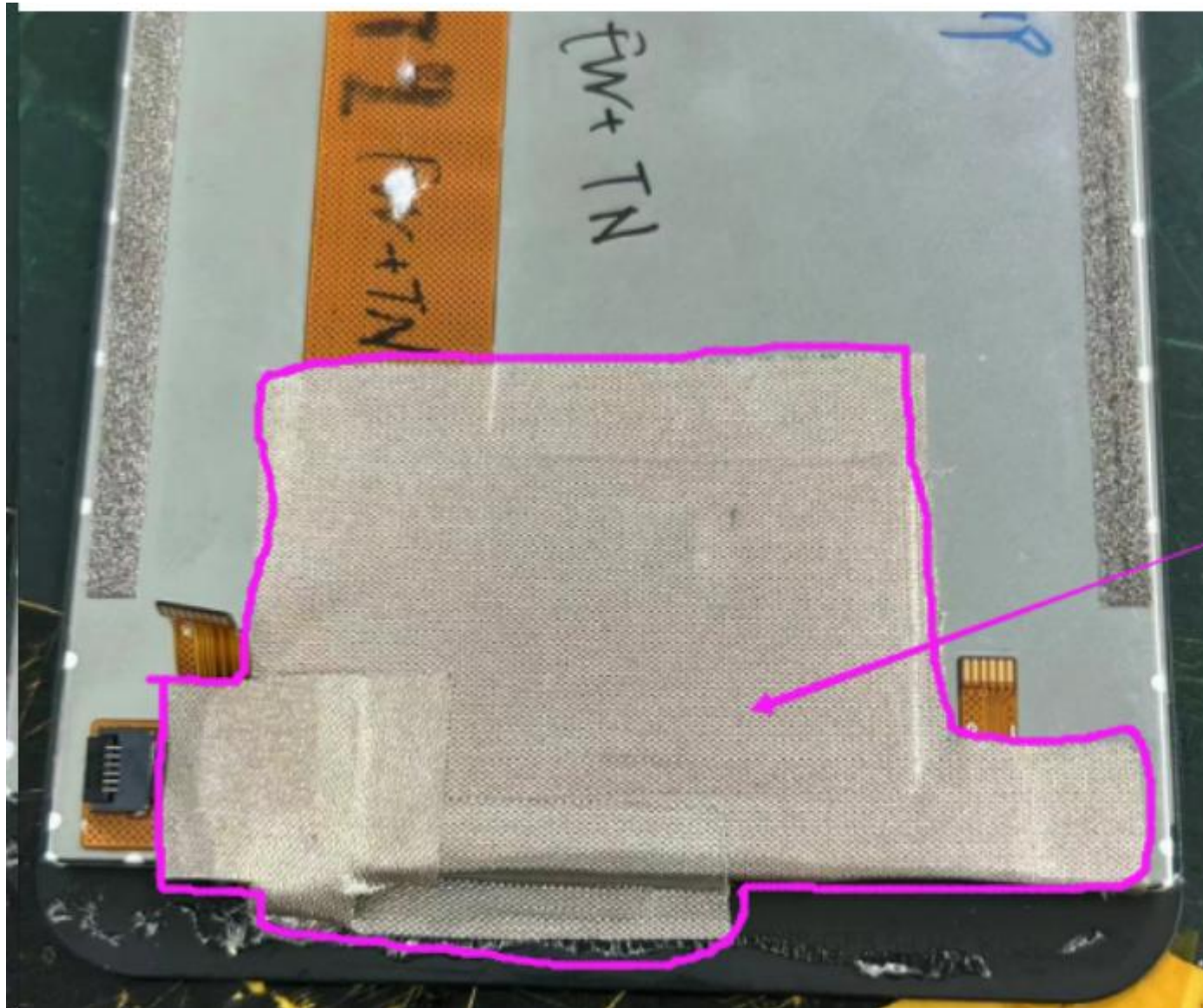
GWB antenna apple diagram



Device Test scenario

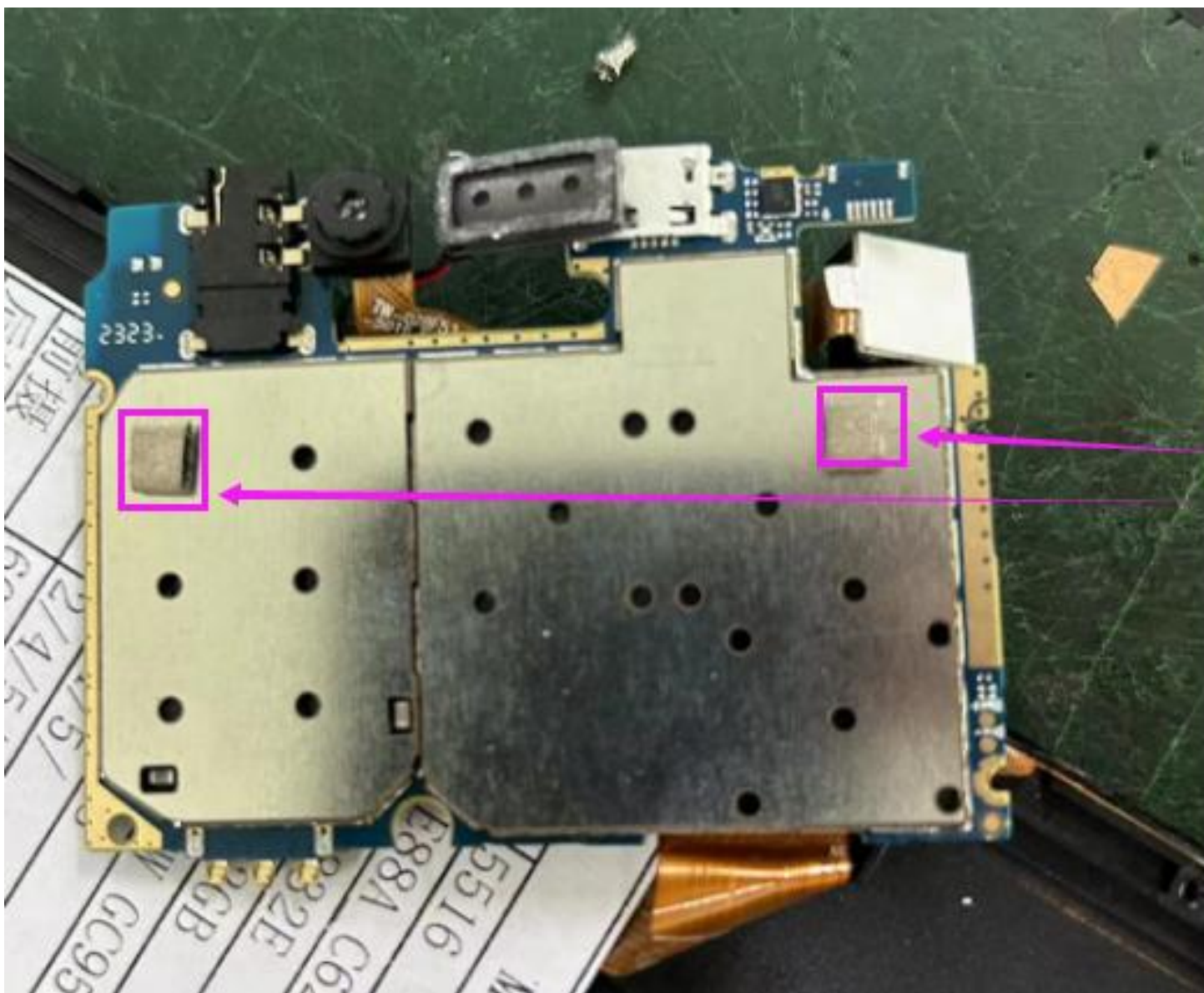


Environmental treatment



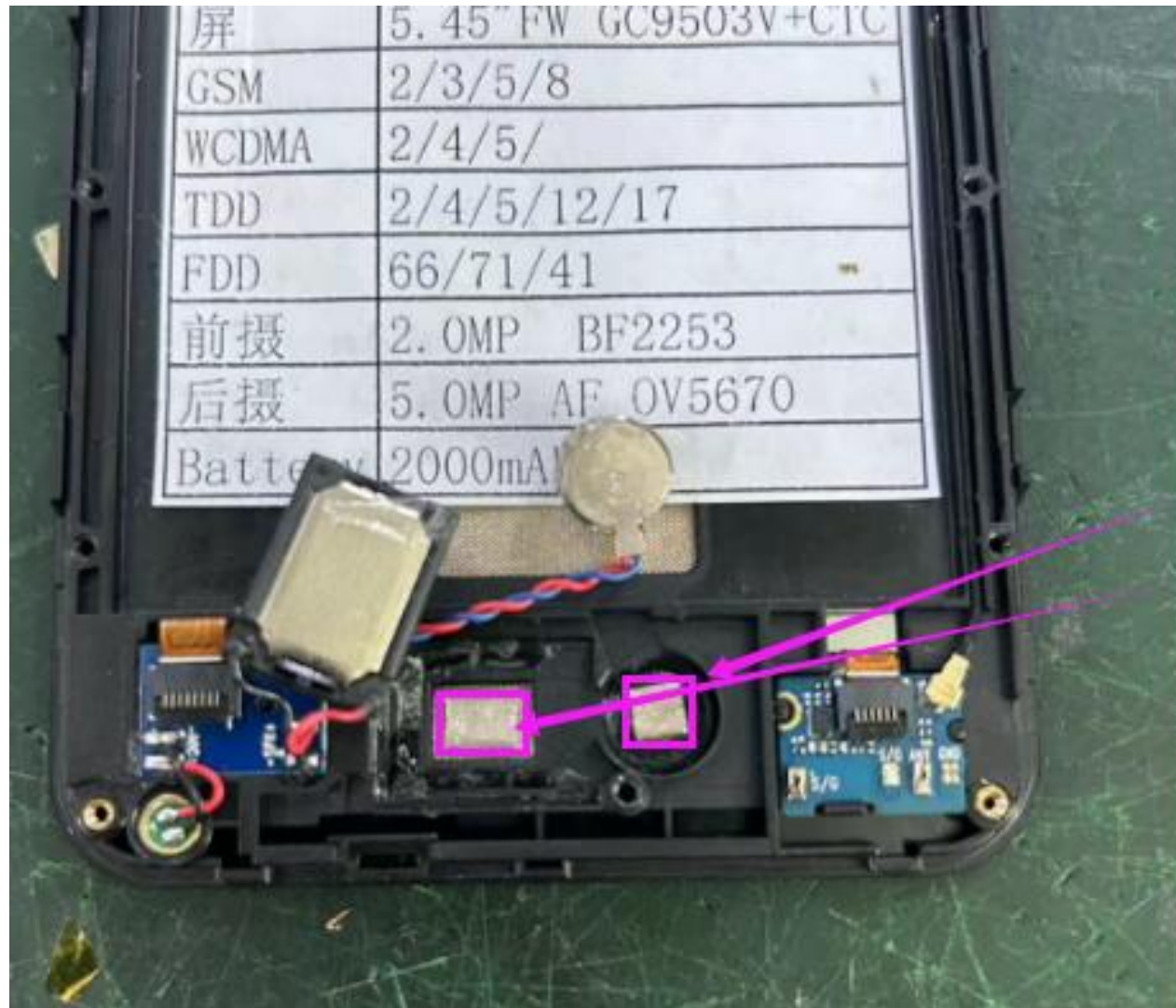
把屏FPC用导电布
按着图示方式盖
住，防止FPC对天
线的干扰。

Environmental treatment



主板屏蔽罩一定要
用高导电海棉与屏
接地。

Environmental treatment



喇叭和马达用
导电海棉接地

WIFI/GPS

