

Shenzhen Yunzhishang Electronics Co., Ltd

Customers: Zhong Rui Ke

Project name: BC680

RF engineer: Xu Long

Address: 2nd Floor, East Building, Building 5, Yifenghua
Industrial Zone, Huanei Road, Dalang Street, Longhua New
District, Shenzhen City

● A Brief Introduction to debugging the project

Plate type	The whole machine						
Antenna Overview	The main antenna	Frequency band		Antenna status	Antenna form	Design area	Match the changes
		2G	G2/3/5/8/W1/2/4/5/6/8	Gold-plated FPC	PIFA	The bottom of the phone	YES
		3G					
		4G	1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28AB/66/34/38/39/40/41				
		5G	N/A				
	Other antennas	BT/WIFI	2.4G/5.0	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	Debugging machine		Environmental treatment				

Main antenna darkroom data

	Channel	TRP (dBm)	TIS (dBm)			Channel	TRP (dBm)	TIS (dBm)			Channel	TRP (dBm)	TIS (dBm)
FDD B1	18050	17.75			FDD B13					FDD B28B	27410	15.76	
	18300	17.62				23230	15.57	-90.23			27510	16.21	
	18550	17.54	-92.51								27600	16.45	-90.25
FDD B2	18650	17.41			FDD B17	23790	15.46			TDD (B34)	36250	18.15	
	18900	17.45				23790	15.58				36275	18.23	
	19150	17.51	-92.46			23790	15.72	-90.51			36300	18.12	-91.43
FDD B3	19250	17.25			FDD B18	23900	16.32			TDD (B38)	37850	17.36	
	19575	17.36				23925	16.74				38000	17.41	
	19900	17.47	-91.63			23950	17.25	-90.42			38150	17.37	-91.27
FDD B4	20000	17.14			FDD B19	24050	16.68			TDD (B39)	38350	17.13	
	20175	17.23				24075	17.03				38450	17.32	
	20350	17.45	-91.34			24100	17.29	-90.26			38550	17.52	-91.15
FDD B5	20450	16.51			FDD B20	24200	16.63			TDD (B40)	38750	17.41	
	20525	16.57				24300	17.24				39150	17.36	
	20600	17.28	-91.51			24400	17.46	-90.25			39550	17.45	-91.15
FDD B7	20800	17.62			FDD B25	26090	16.68			TDD (B41)	40340	17.25	
	21100	17.51				26365	17.35				40620	17.16	
	21400	17.48	-91.58			26640	17.38	-91.23			41140	17.32	-90.26
FDD B8	21500	17.36			FDD B26	26740	16.23			WCDMA B1	10562	17.35	
	21625	17.25				26865	16.34				10700	17.27	
	21750	17.12	-90.23			26990	17.15	-91.14			10838	17.38	-104.3
FDD B12	23060	15.03			FDD B28A	27260	15.64			WCDMA B2	9262	17.21	
	23095	15.23				27370	16.05				9400	17.35	
	23130	15.28	-90.53			27469	16.19	-89.65			9538	17.38	-103.8

Main antenna darkroom data

	Channel	TRP (dBm)	TIS (dBm)			Channel	TRP (dBm)	TIS (dBm)			Channel	TRP (dBm)	TIS (dBm)
WCDMA B4	1312	17.13											
	1413	17.24											
	1513	17.32	-103.4										
WCDMA B5	4132	16.51											
	4183	16.75											
	4233	17.31	-104.1										
WCDMA B6	4162	16.42											
	4175	16.68											
	4188	17.24	-103.5										
WCDMA B8	2712	17.35											
	2787	17.24											
	2863	17.21	-103.2										
GSM 850	128	25.32											
	190	25.54											
	251	26.41	-103.1										
GSM 900	1	26.15											
	62	25.56											
	124	25.54	-102.7										
DCS1800	512	24.23											
	698	24.19											
	885	25.12	-103.4										
PCS 1900	512	24.62											
	661	24.41											
	810	24.36	-103.6										

Antenna gain

GSM: B2:-0.36dBi B3:-0.36dBi B5: -0.53dBi B8:-0.57dBi

WCDMA: B1:-0.28dBi B2:-0.36dBi B4:-0.38dBi B5:-0.53dBi
B6:-0.53dBi B8:-0.57dBi

FDD: B1:-0.28dBi B2:-0.36dBi B3:-0.36dBi B4:-0.38dBi
B5:-0.53dBi B7:1.13dBi B8:-0.57dBi B12:-0.67dBi B13:-0.65dBi
B17:-0.67dBi B18:-0.53dBi B19:-0.51dBi B20:-0.53dBi
B25:-0.36dBi B26:-0.53dBi B28:-0.65dBi B66:-0.38dBi

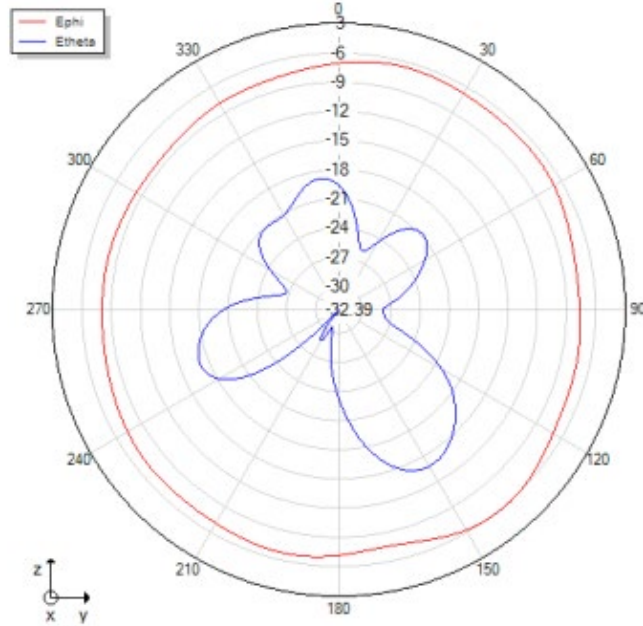
TDD:B34:0.16dBi B38:1.24dBi B39:-0.32dBi
B40: 0.49dBi B41:1.32dBi

WIFI2.4G:1.54dbi /5.0:2.38dbi BT:1.54dbi

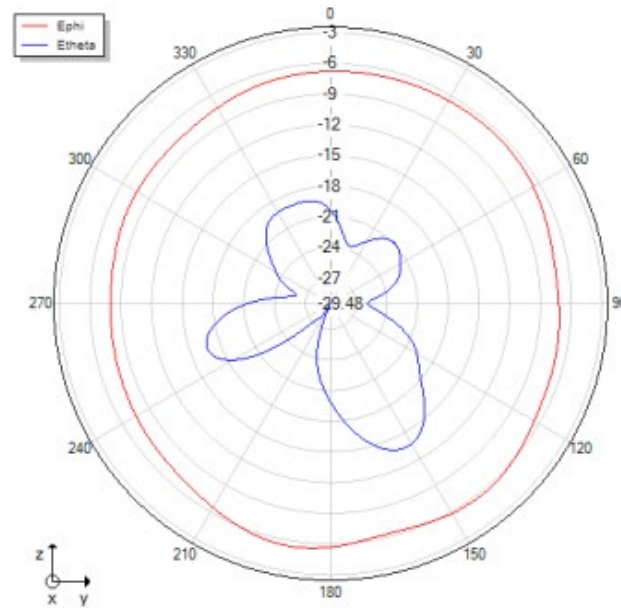
GPS:0.42dbi NFC:-1.54dbi

Lobe diagram

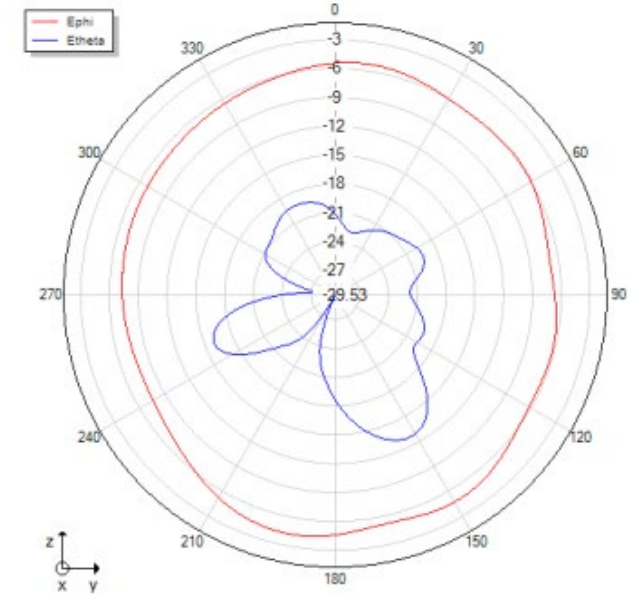
Phi=90 freq=700MHz



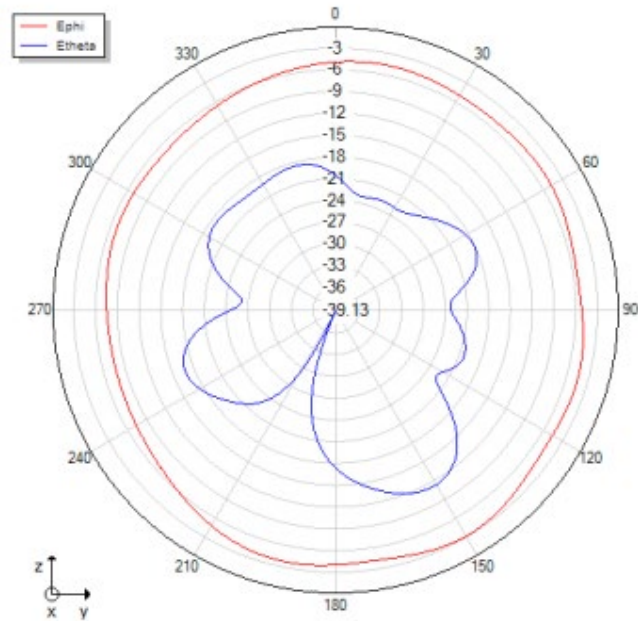
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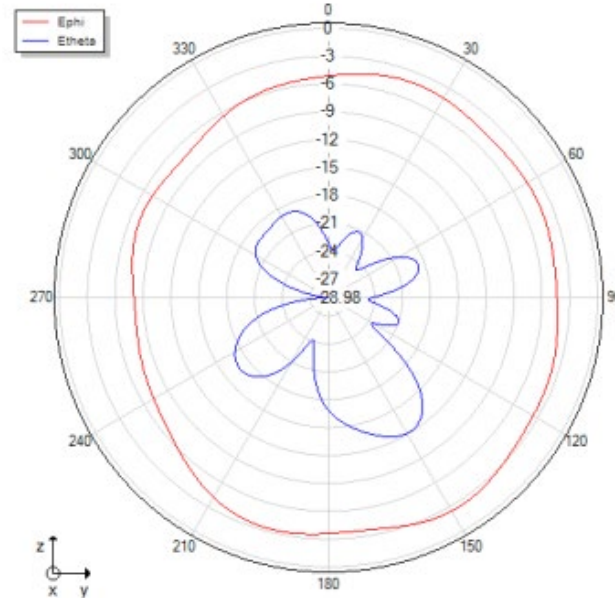
Phi=90 freq=740MHz



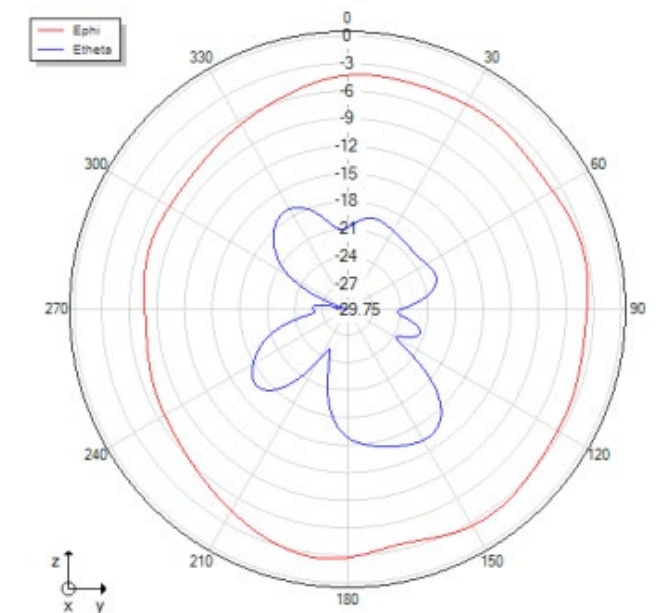
Phi=90 freq=760MHz



Phi=90 freq=780MHz

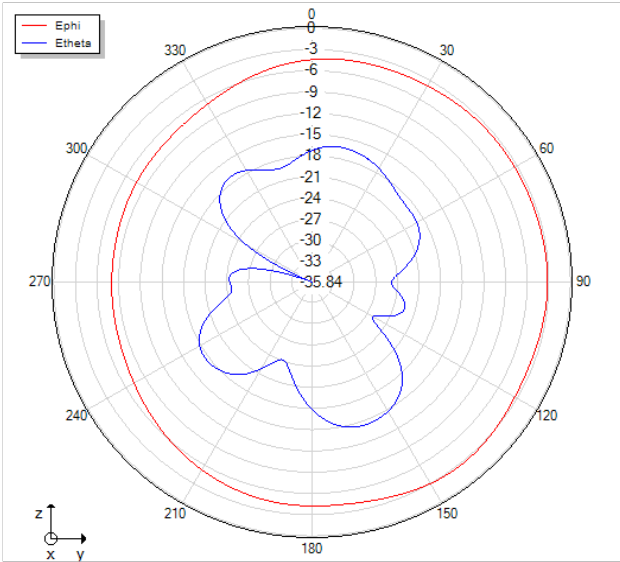


Phi=90 freq=800MHz

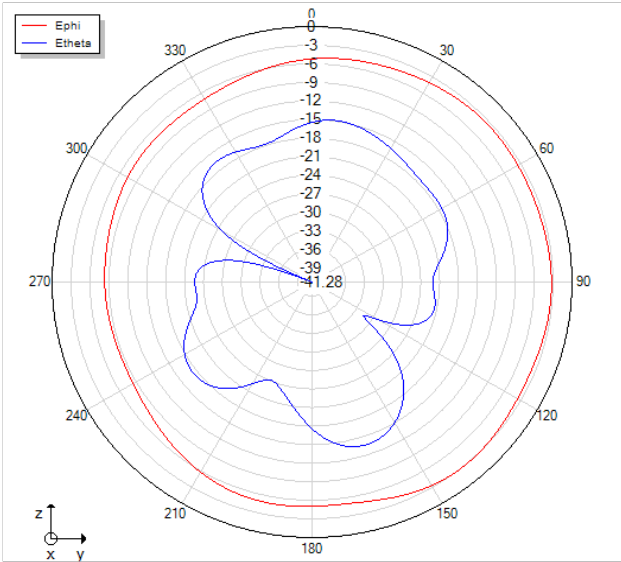


Lobe diagram

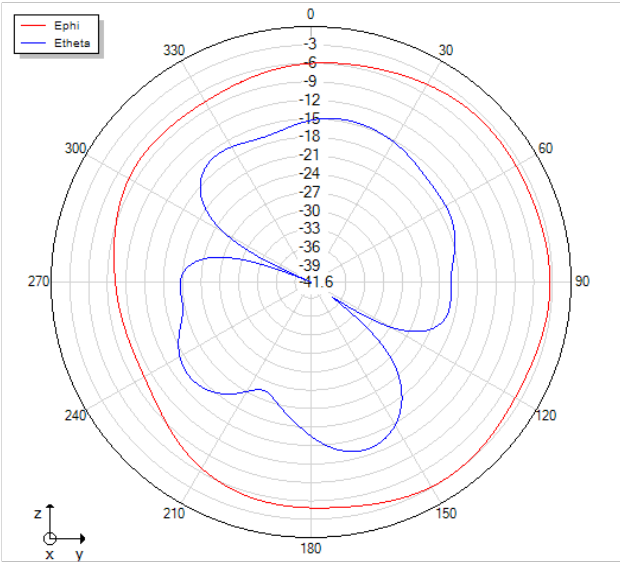
Phi=90 freq=820MHz



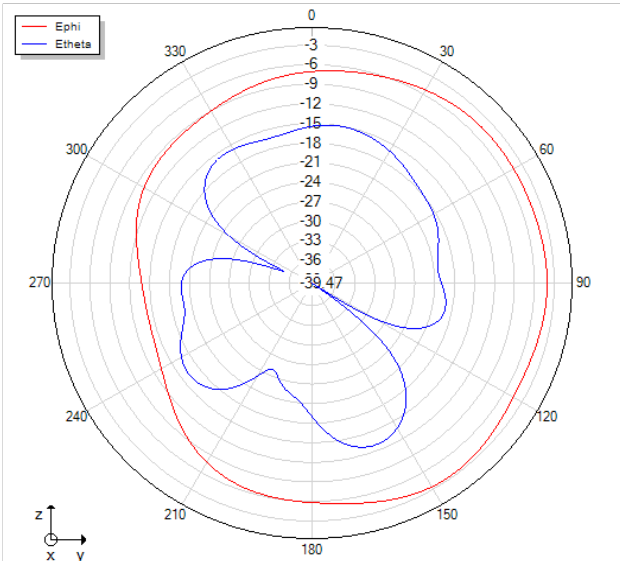
Phi=90 freq=840MHz



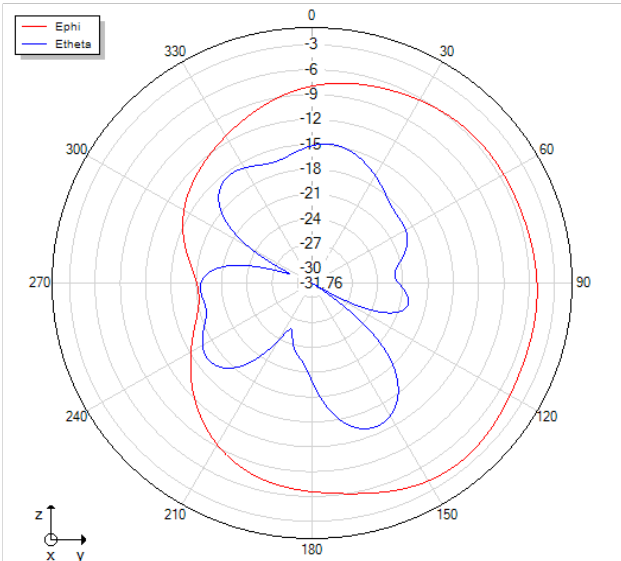
Phi=90 freq=860MHz



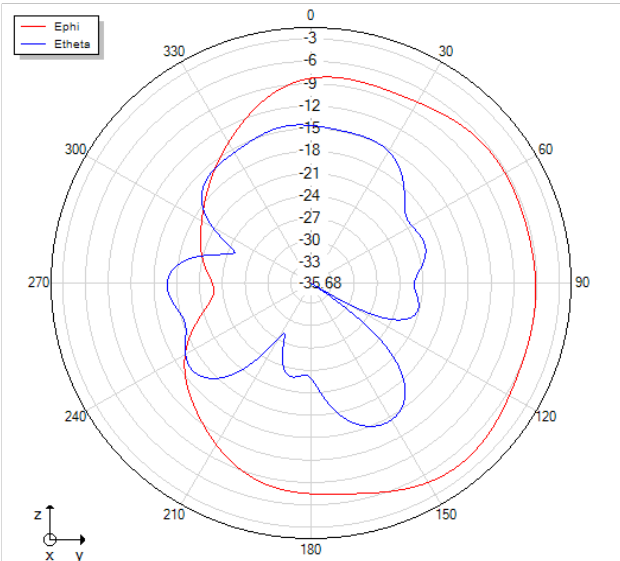
Phi=90 freq=880MHz



Phi=90 freq=900MHz

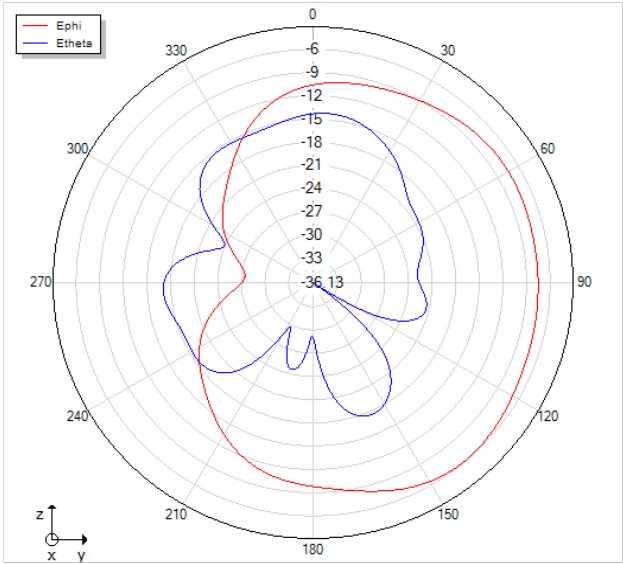


Phi=90 freq=920MHz

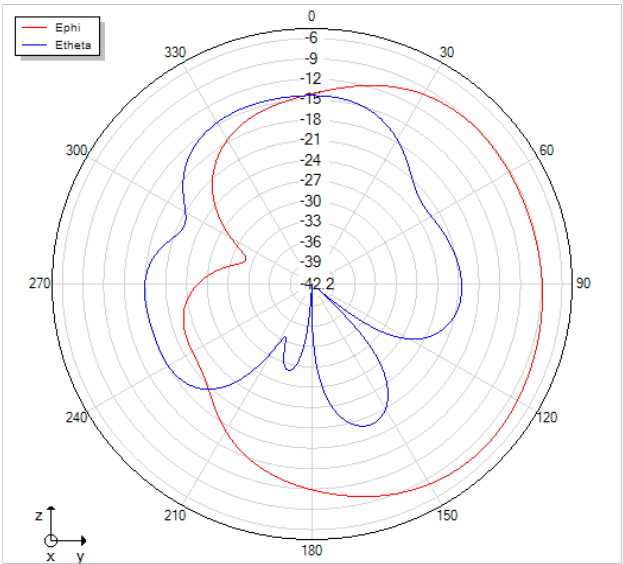


Lobe diagram

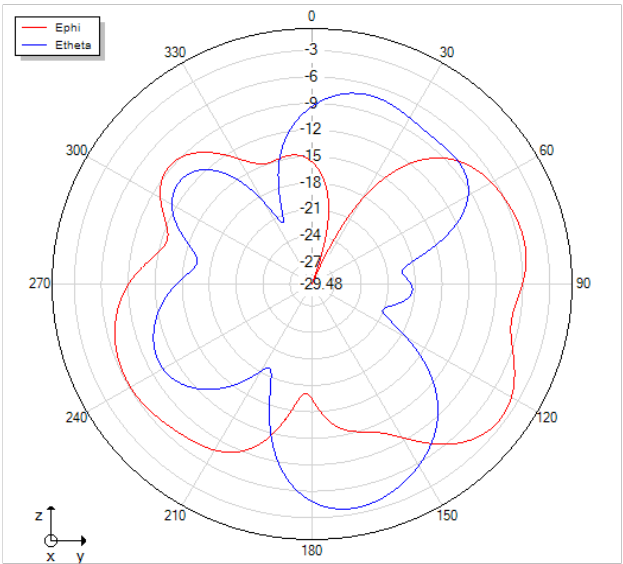
Phi=90 freq=940MHz



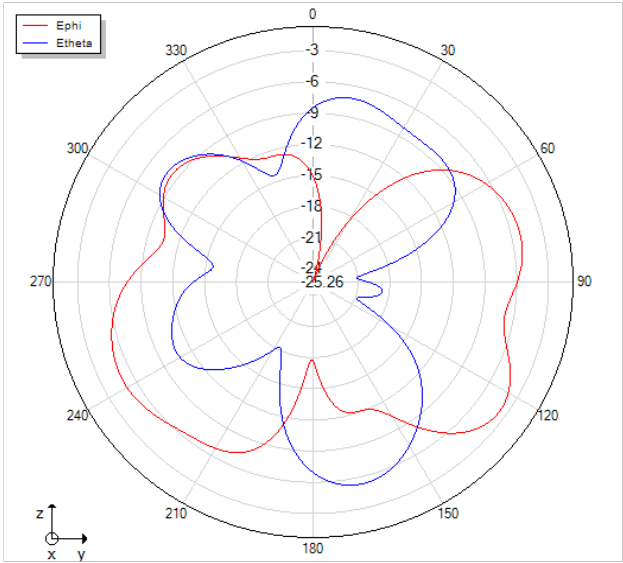
Phi=90 freq=960MHz



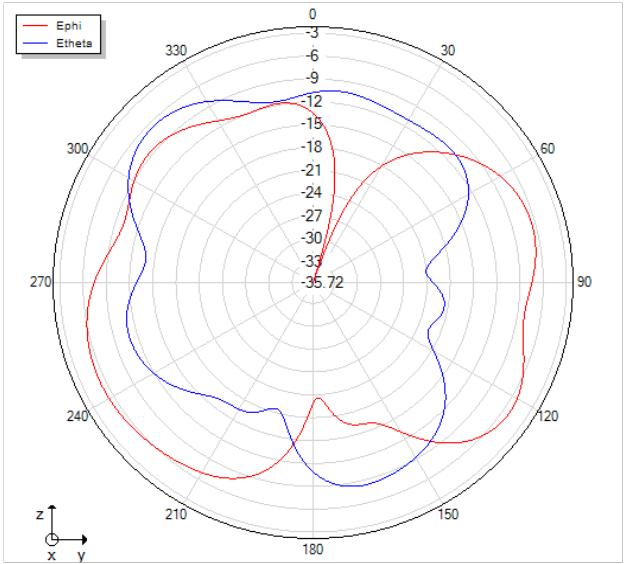
Phi=90 freq=1700MHz



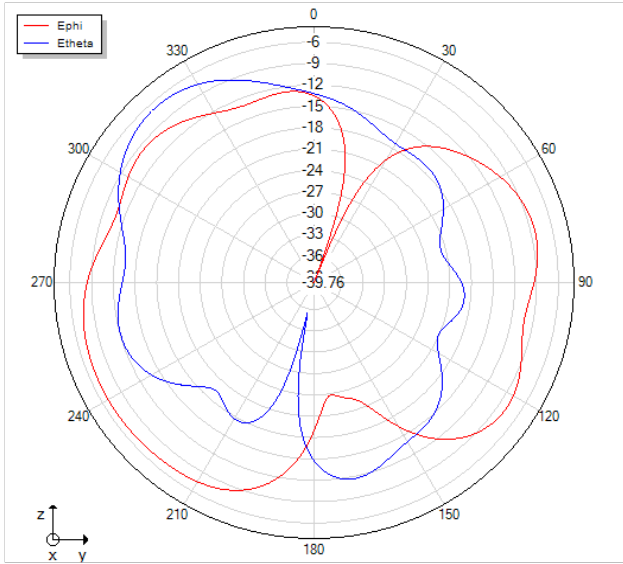
Phi=90 freq=1720MHz



Phi=90 freq=1740MHz

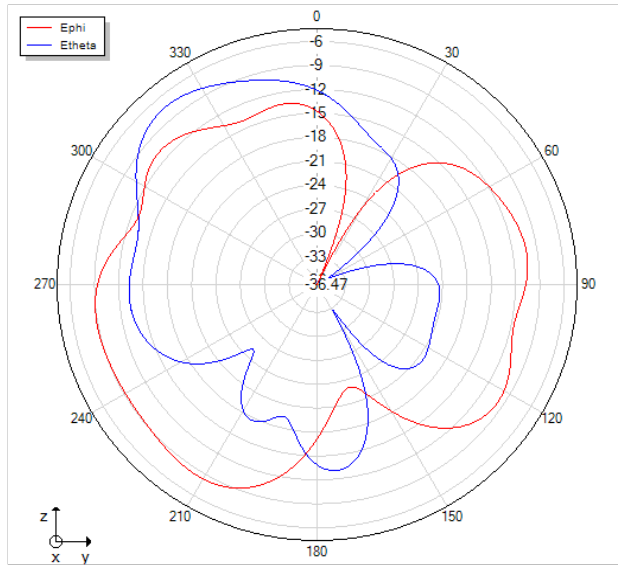


Phi=90 freq=1760MHz

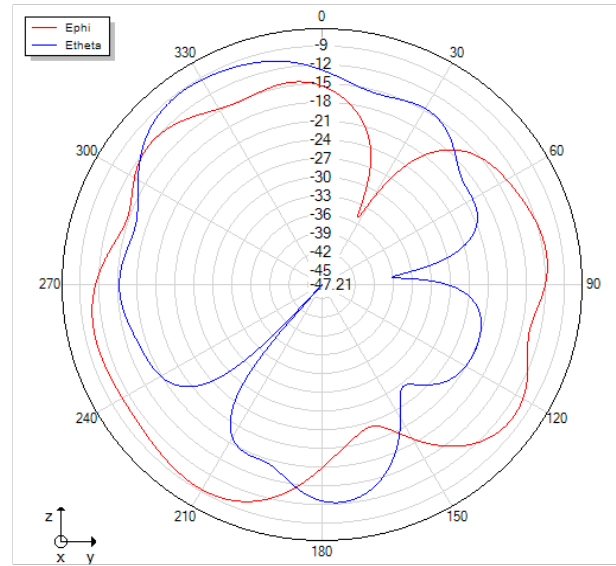


Lobe diagram

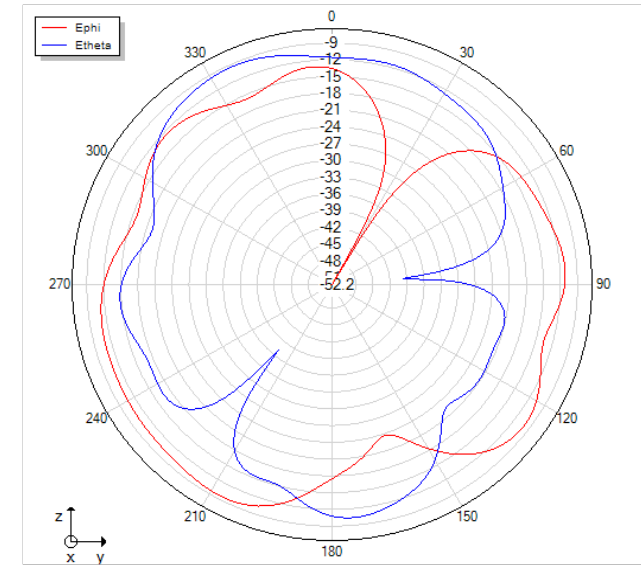
Phi=90 freq=1780MHz



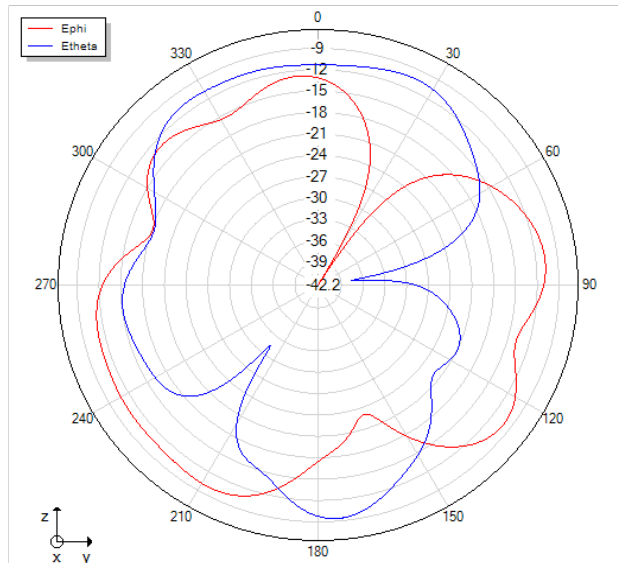
Phi=90 freq=1800MHz



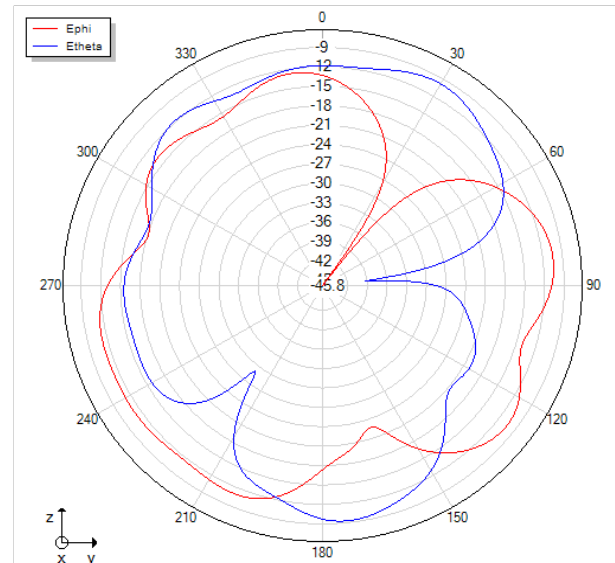
Phi=90 freq=1820MHz



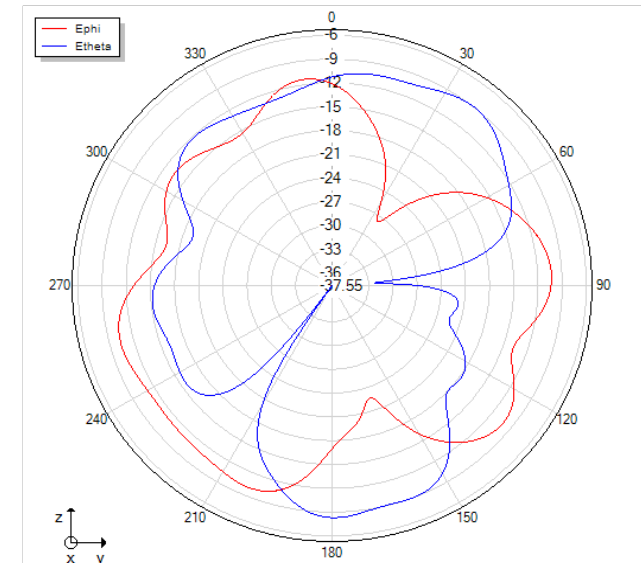
Phi=90 freq=1840MHz



Phi=90 freq=1860MHz

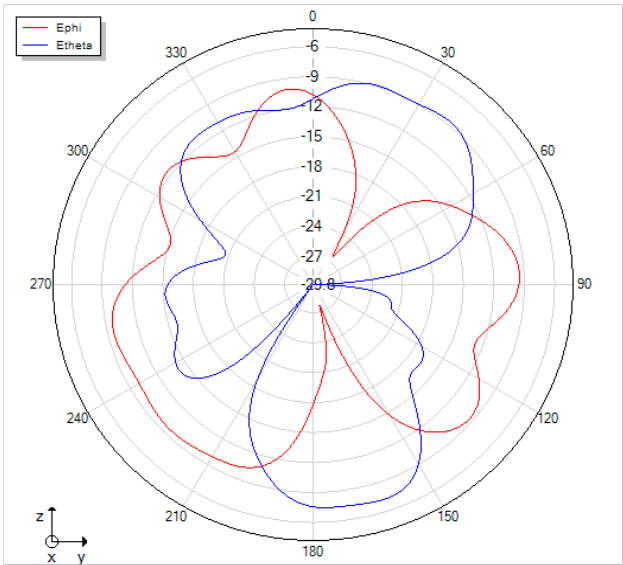


Phi=90 freq=1880MHz

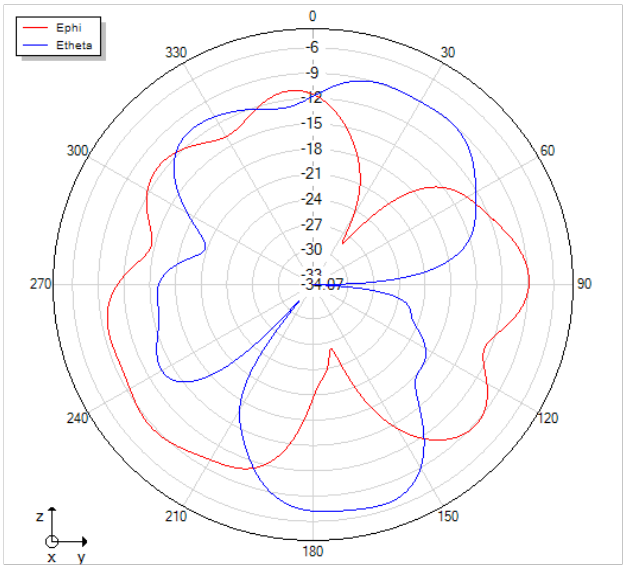


Lobe diagram

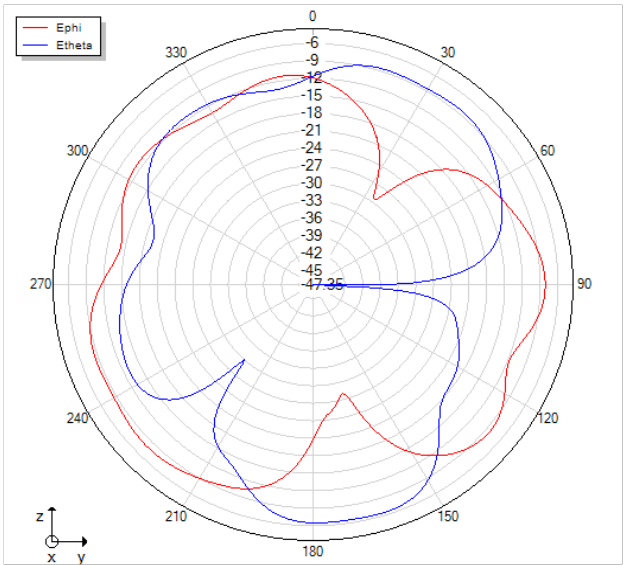
Phi=90 freq=1900MHz



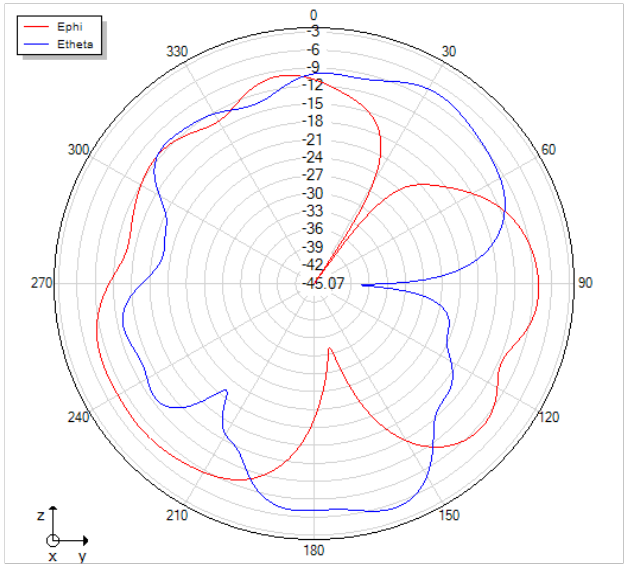
Phi=90 freq=1920MHz



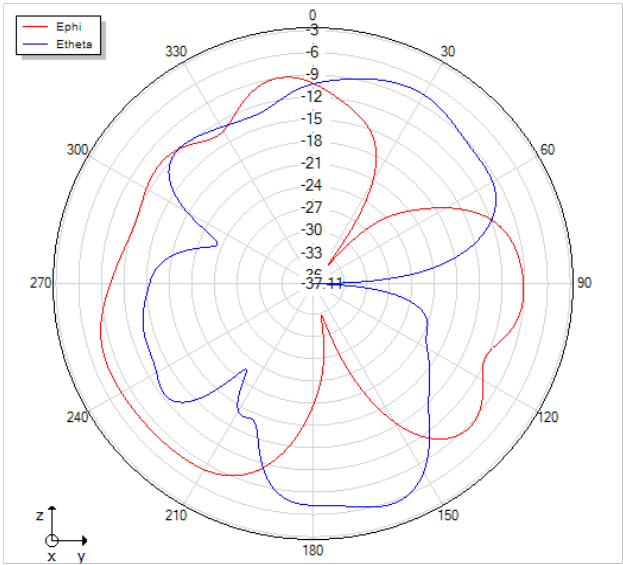
Phi=90 freq=1940MHz



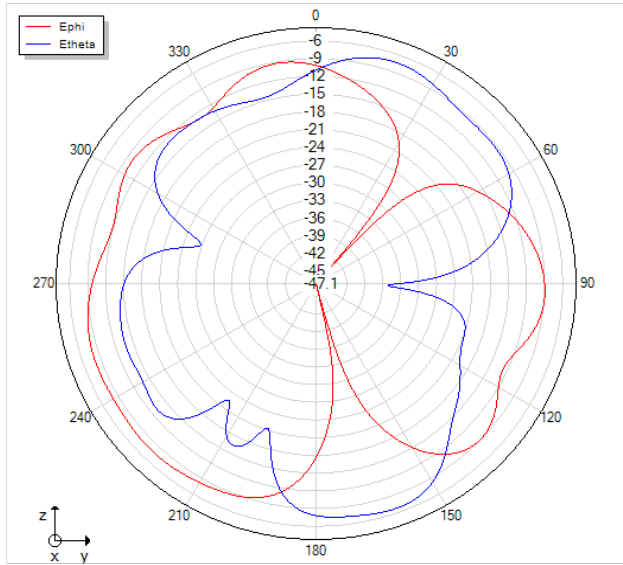
Phi=90 freq=1960MHz



Phi=90 freq=1980MHz

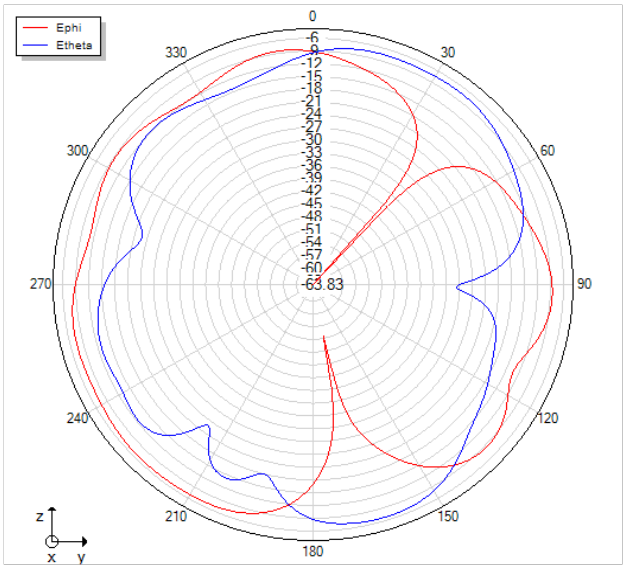


Phi=90 freq=2000MHz

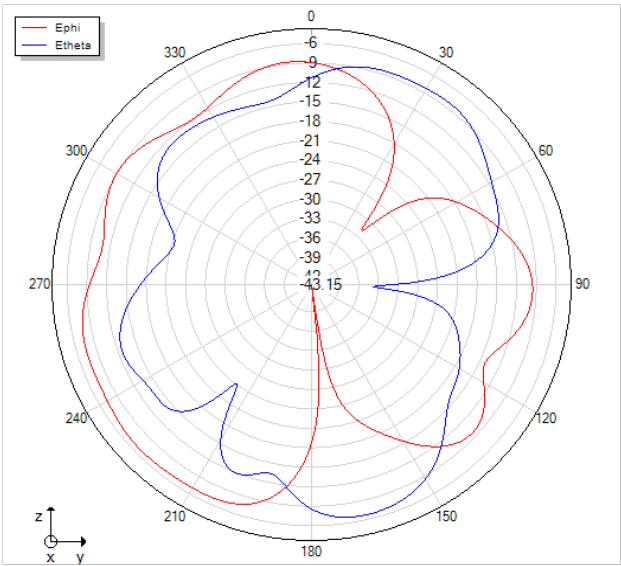


Lobe diagram

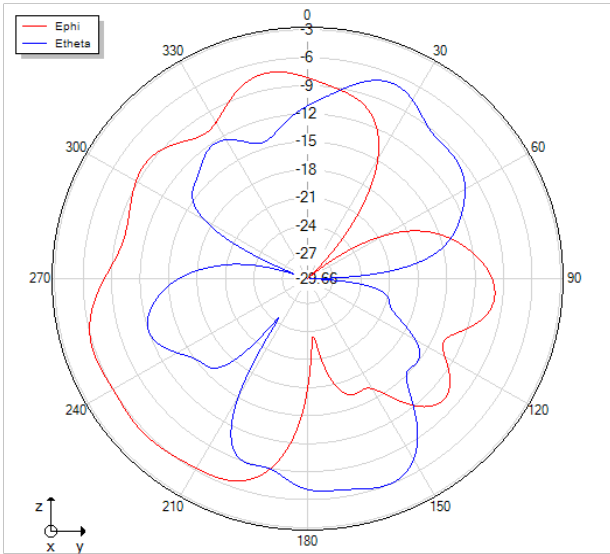
Phi=90 freq=2020MHz



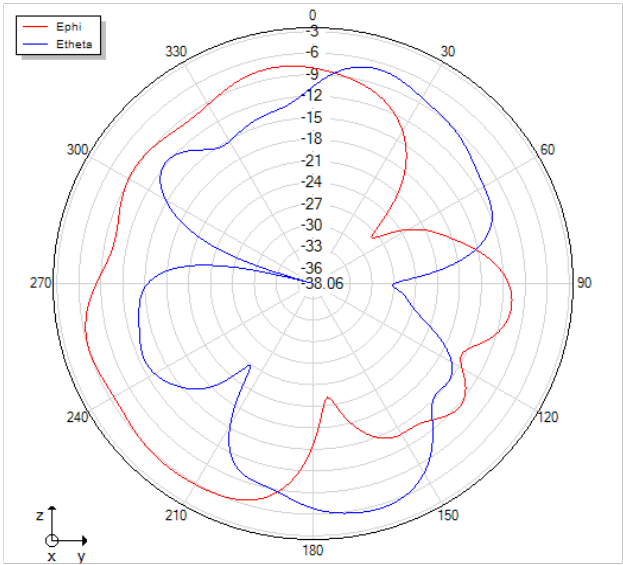
Phi=90 freq=2040MHz



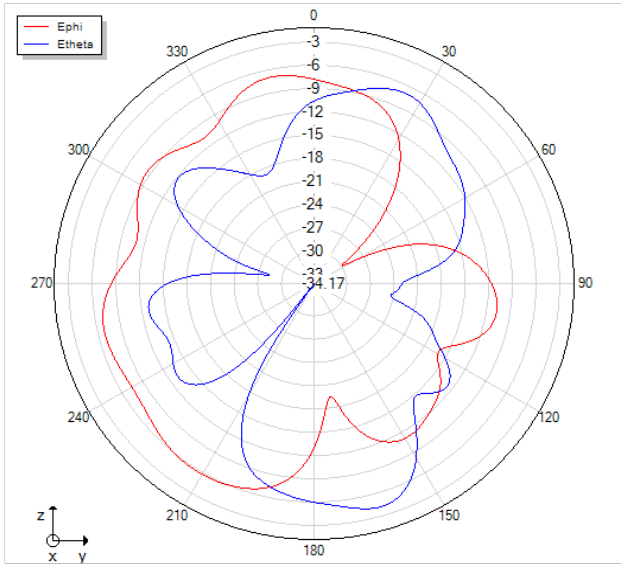
Phi=90 freq=2060MHz



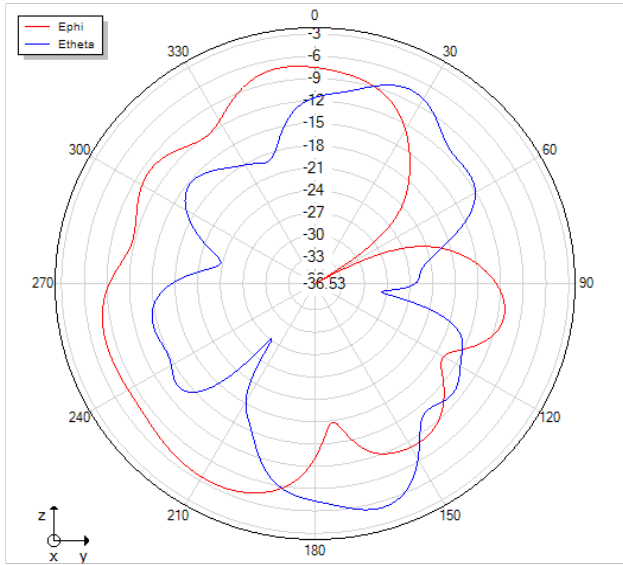
Phi=90 freq=2080MHz



Phi=90 freq=2100MHz

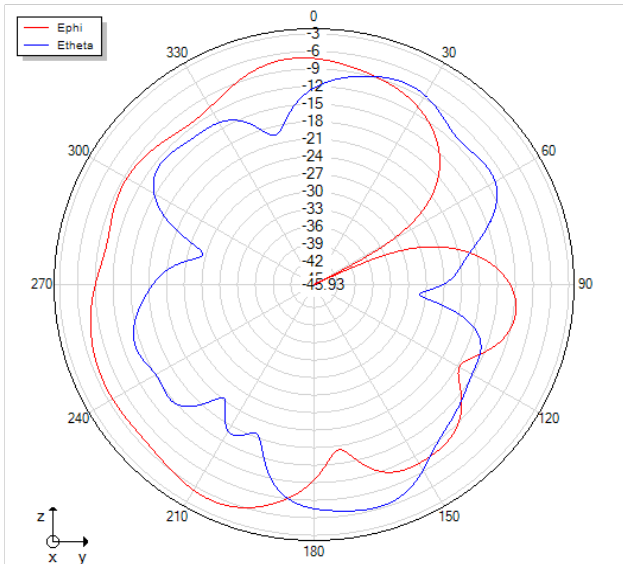


Phi=90 freq=2120MHz

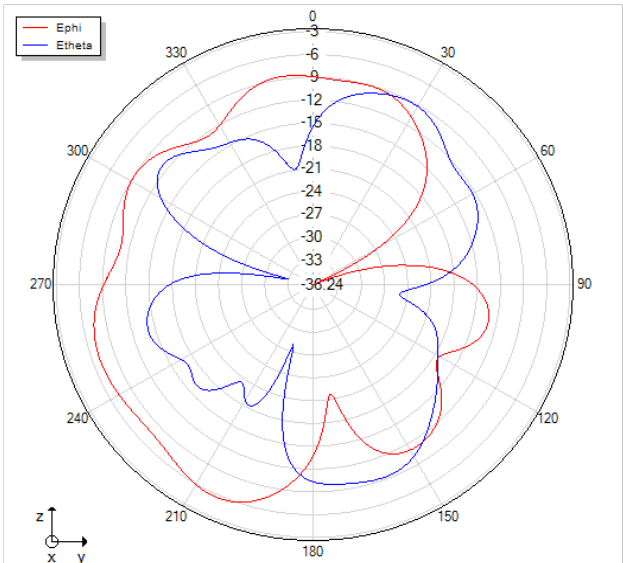


Lobe diagram

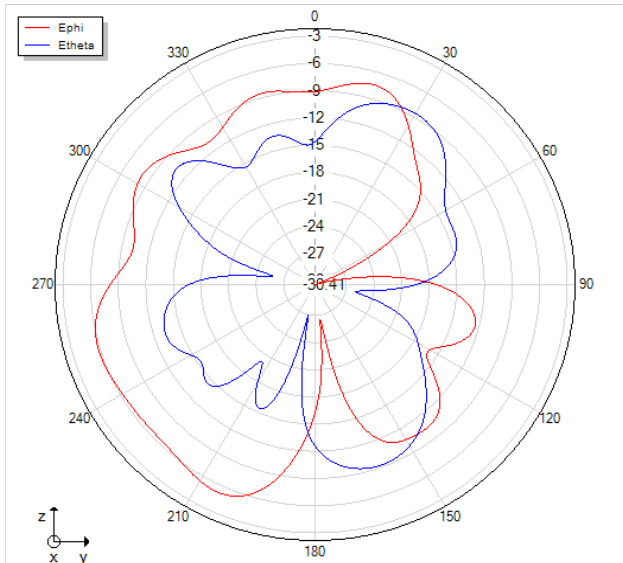
Phi=90 freq=2140MHz



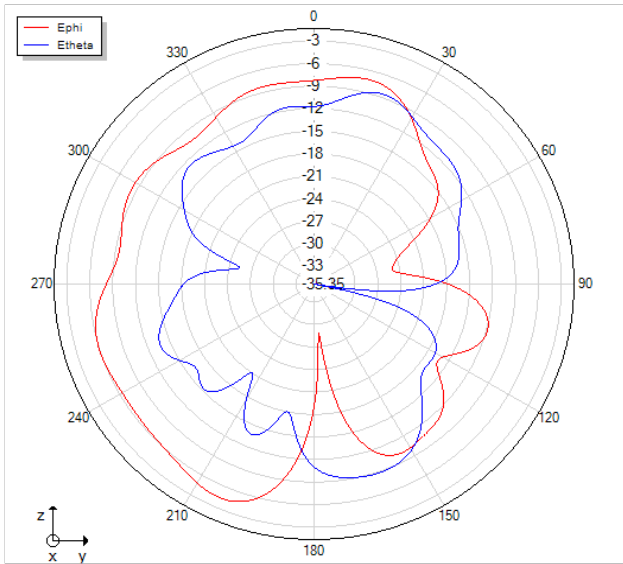
Phi=90 freq=2160MHz



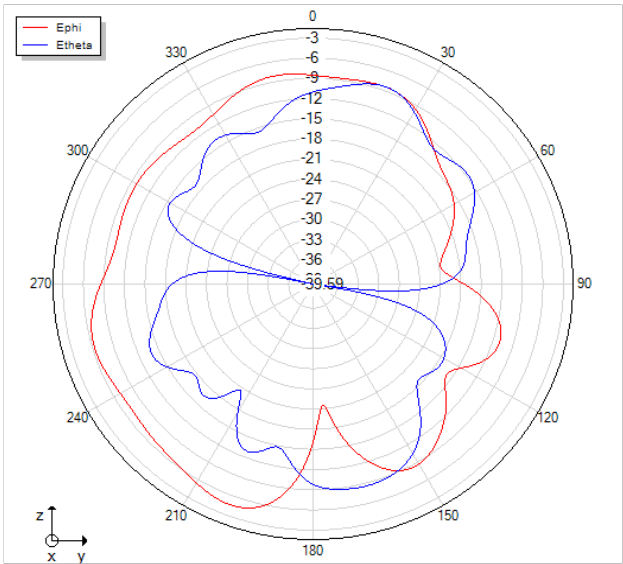
Phi=90 freq=2180MHz



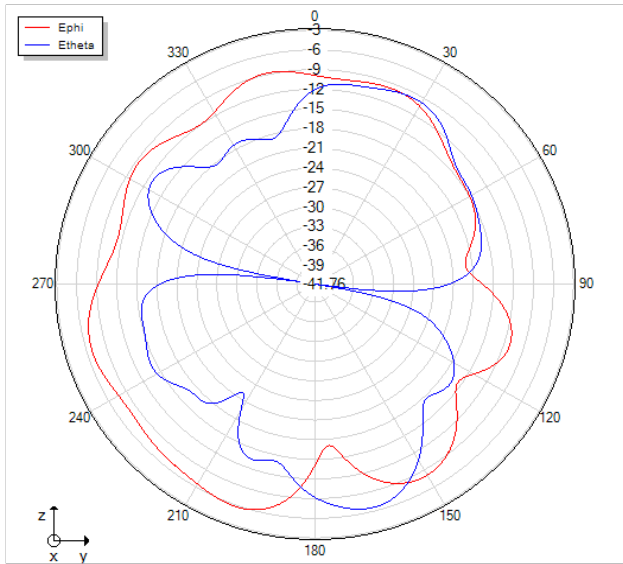
Phi=90 freq=2200MHz



Phi=90 freq=2220MHz

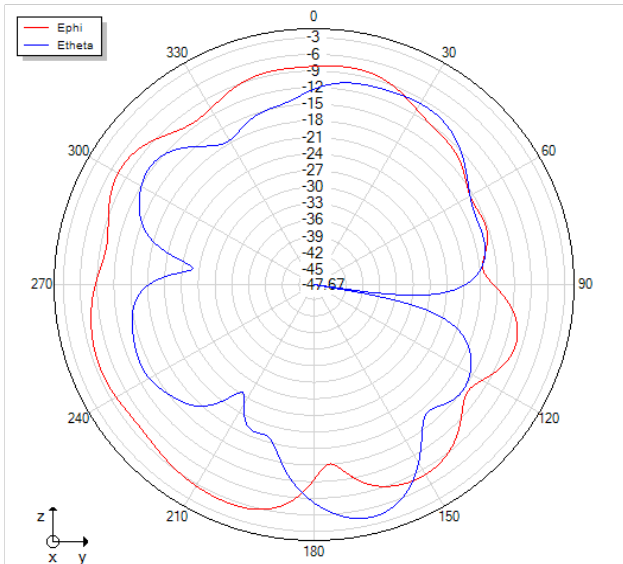


Phi=90 freq=2240MHz

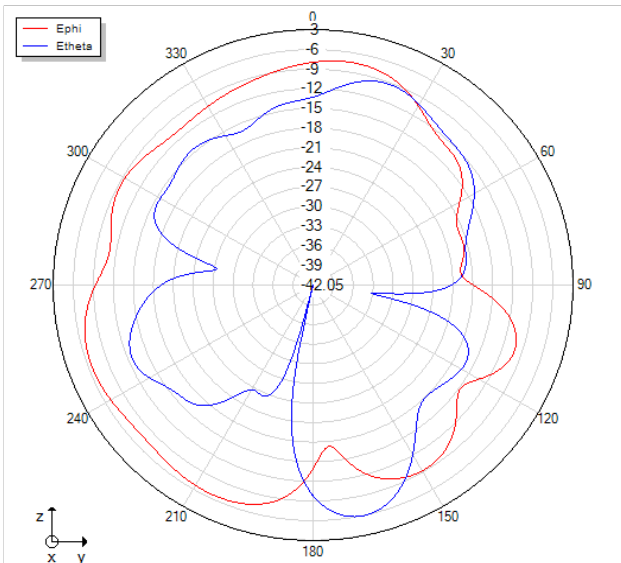


Lobe diagram

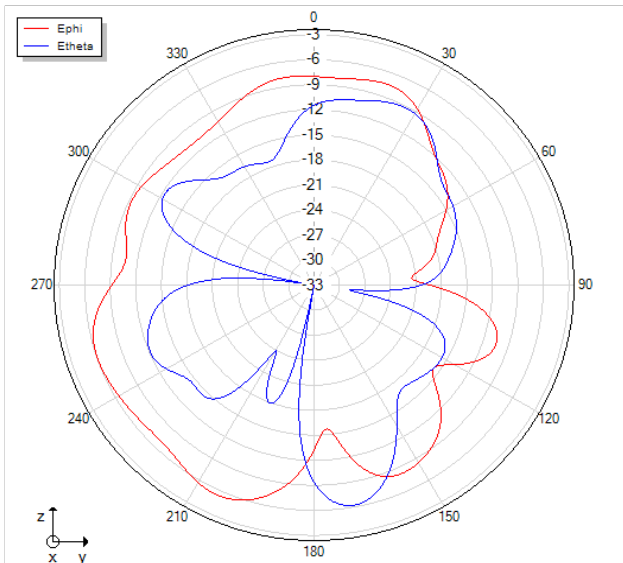
Phi=90 freq=2260MHz



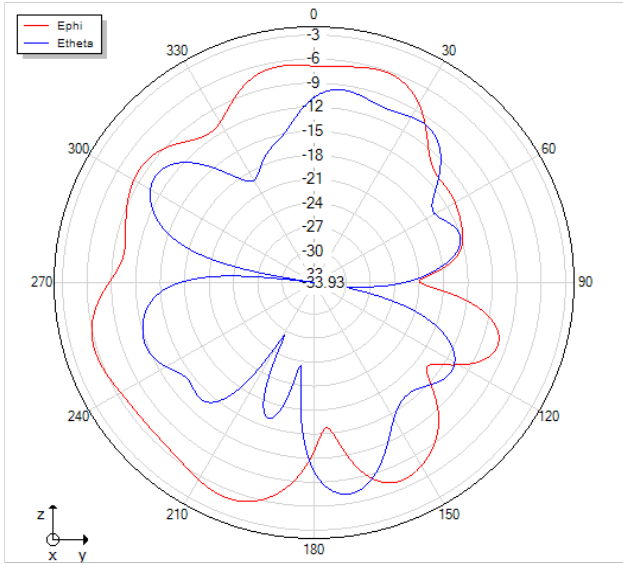
Phi=90 freq=2280MHz



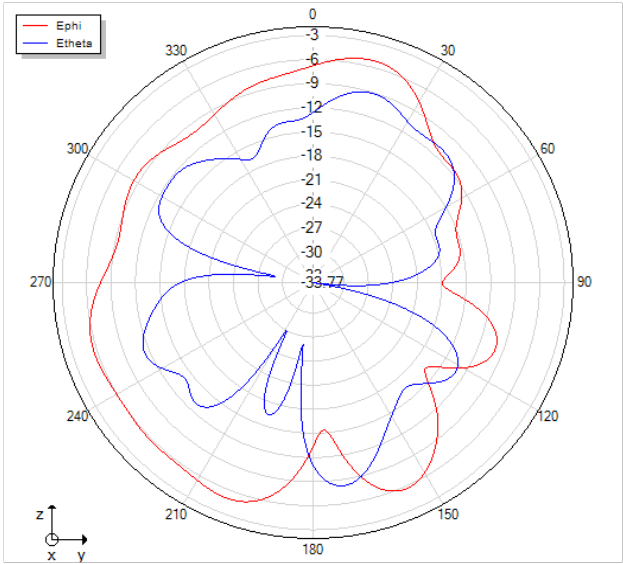
Phi=90 freq=2300MHz



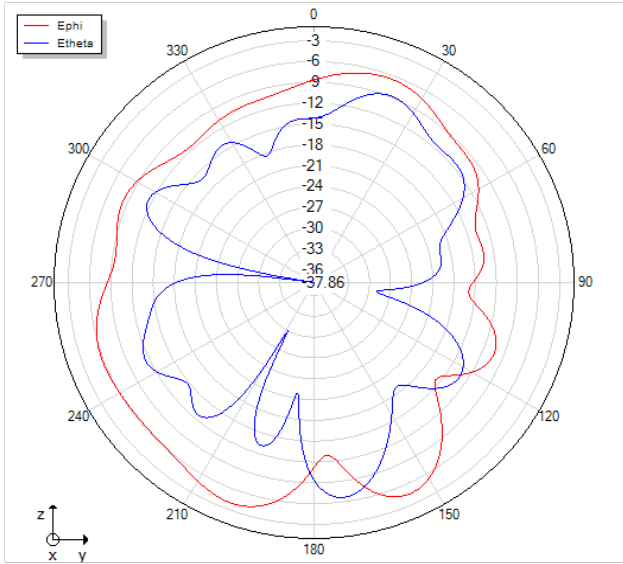
Phi=90 freq=2320MHz



Phi=90 freq=2340MHz

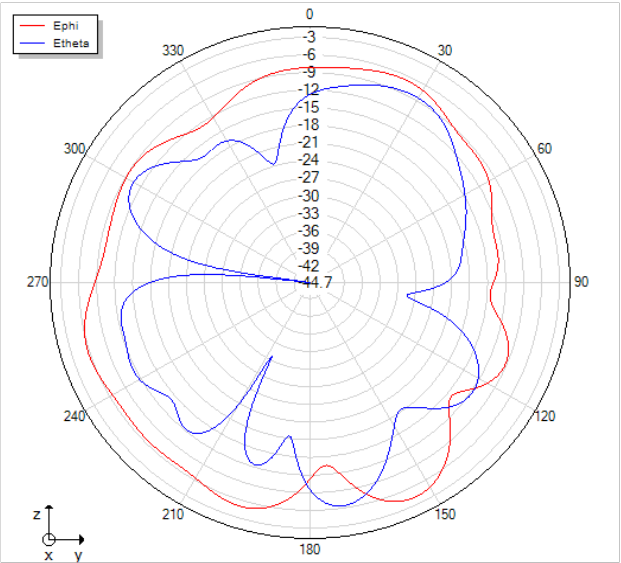


Phi=90 freq=2360MHz

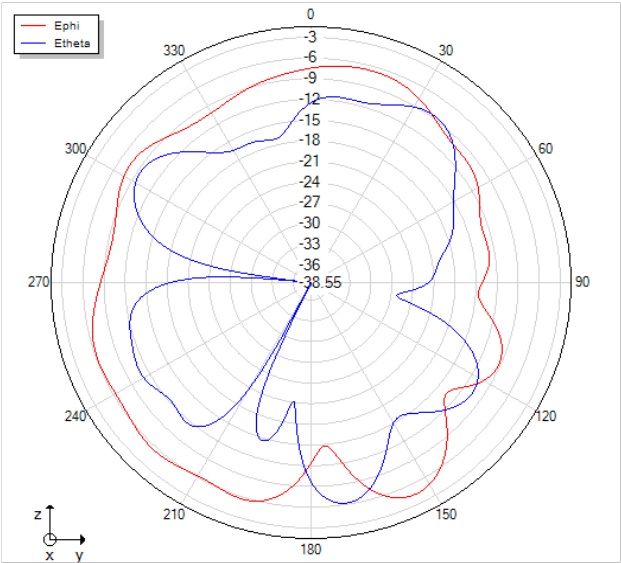


Lobe diagram

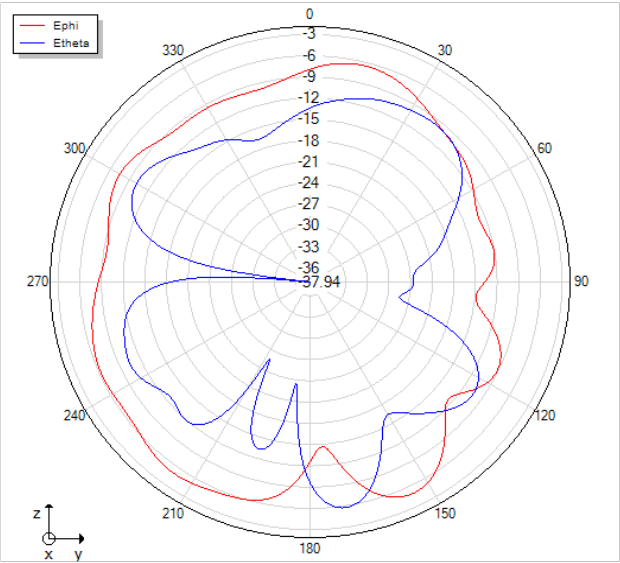
Phi=90 freq=2380MHz



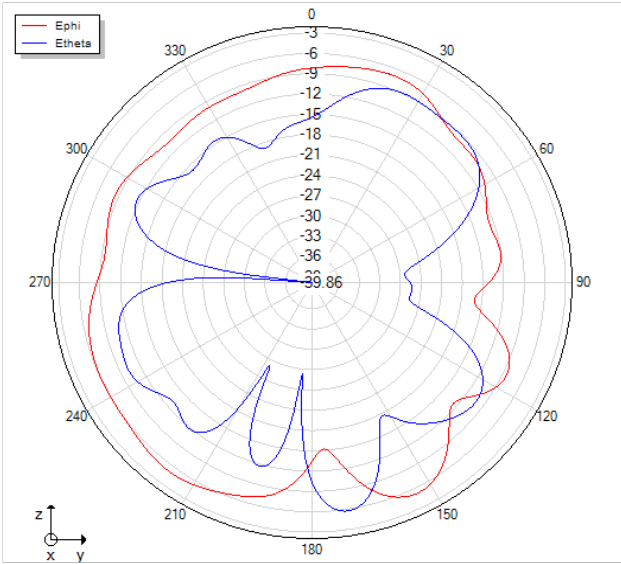
Phi=90 freq=2400MHz



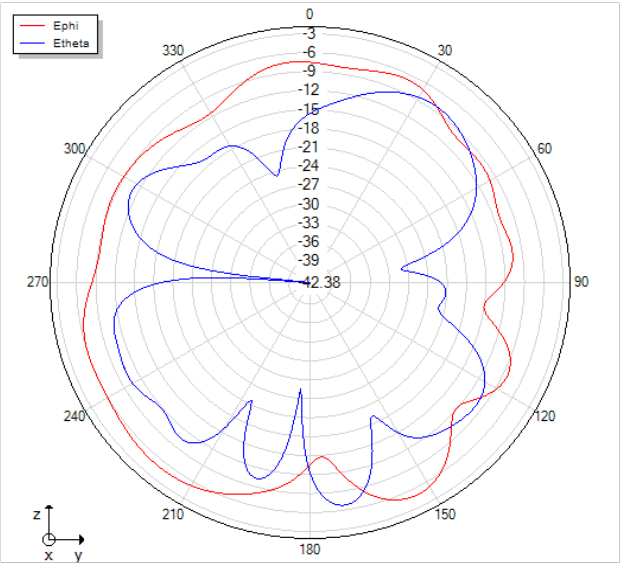
Phi=90 freq=2420MHz



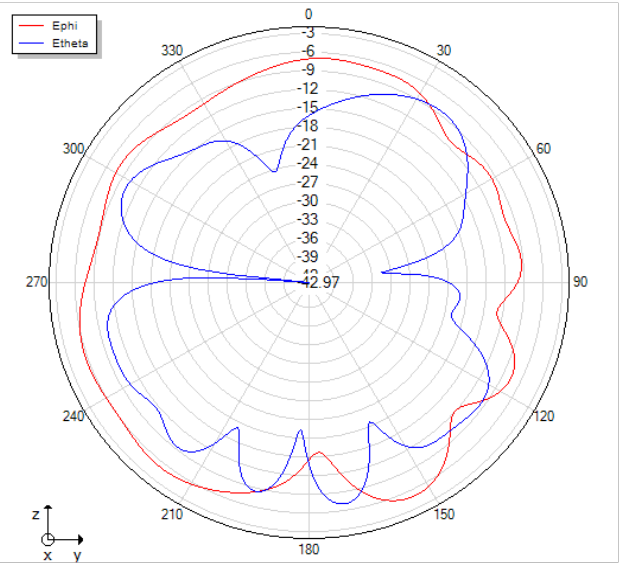
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Phi=90 freq=2460MHz

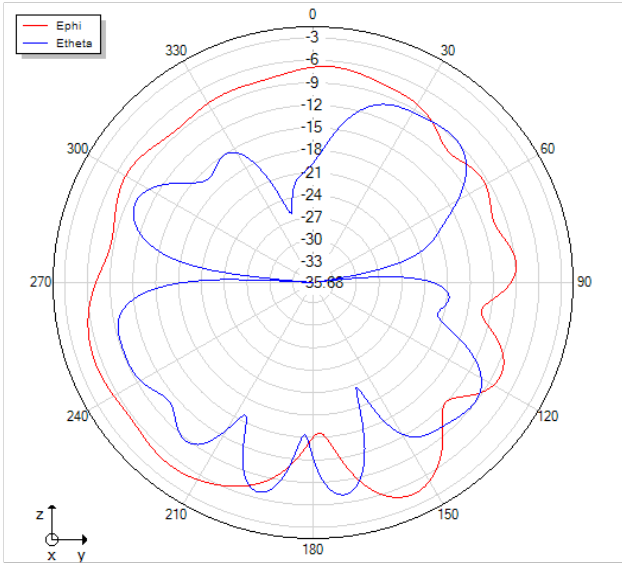


Phi=90 freq=2480MHz

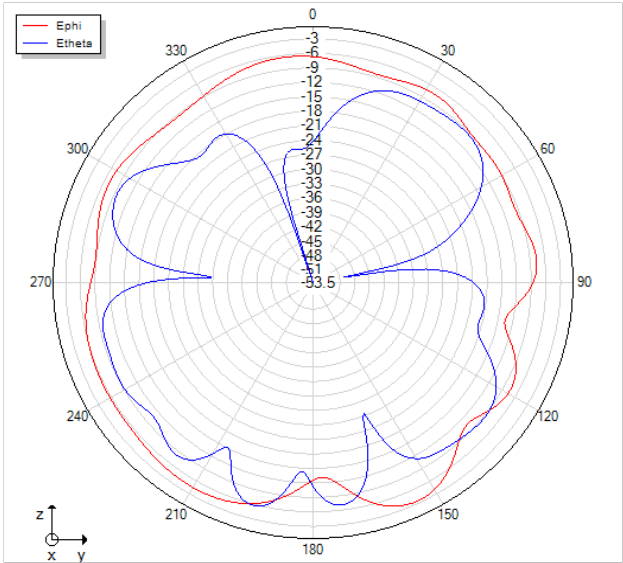


Lobe diagram

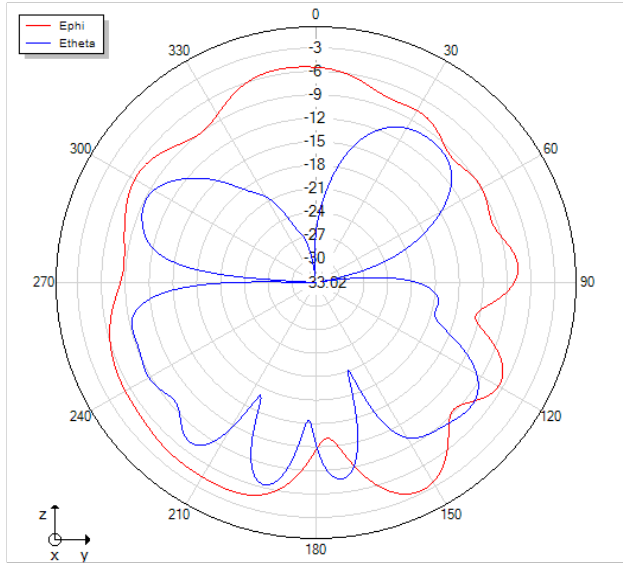
Phi=90 freq=2500MHz



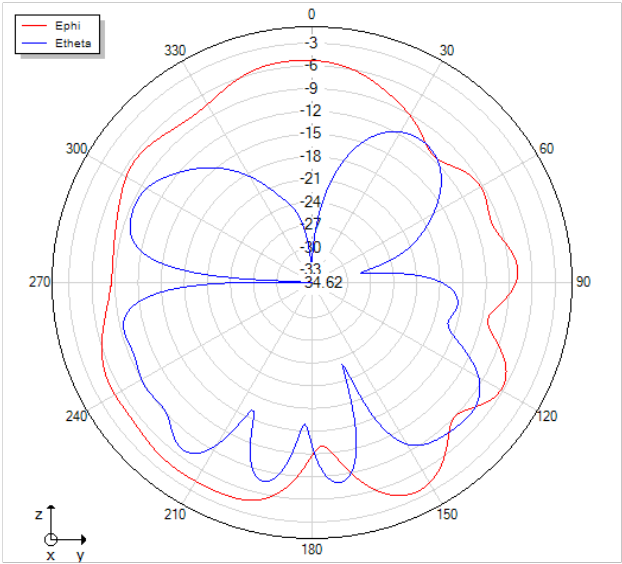
Phi=90 freq=2520MHz



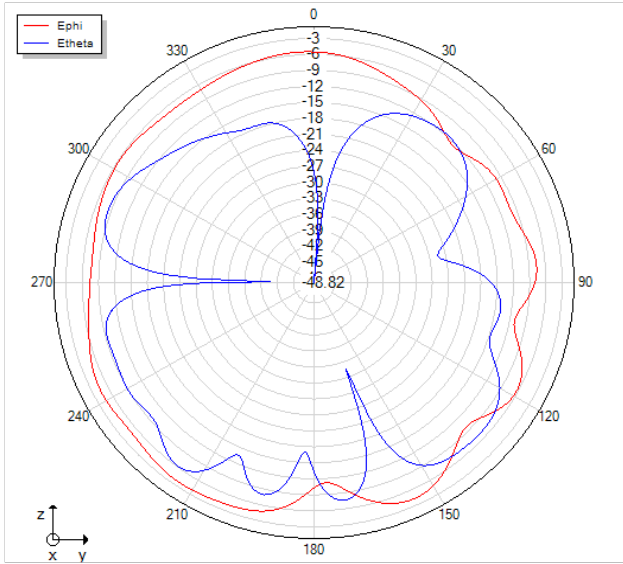
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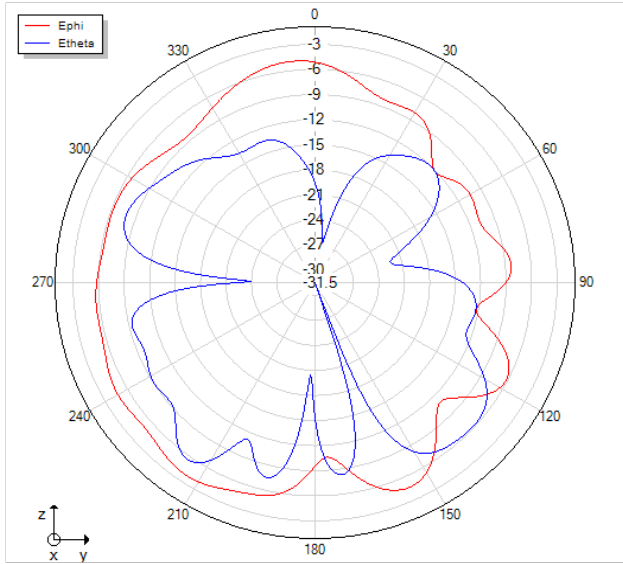
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Phi=90 freq=2580MHz

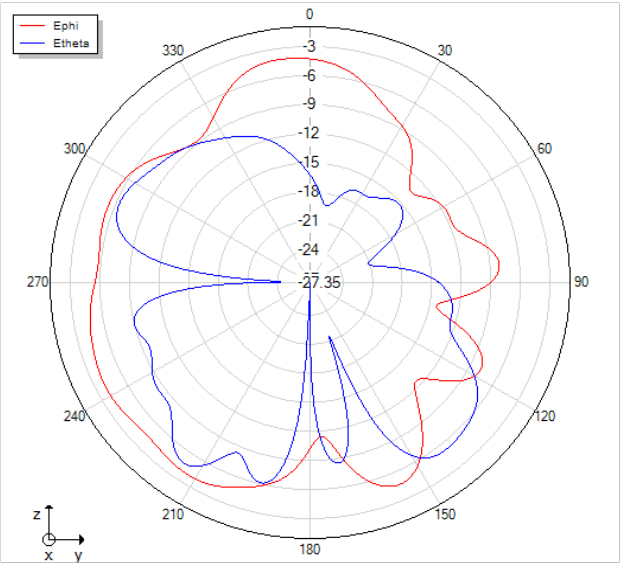


Phi=90 freq=2600MHz

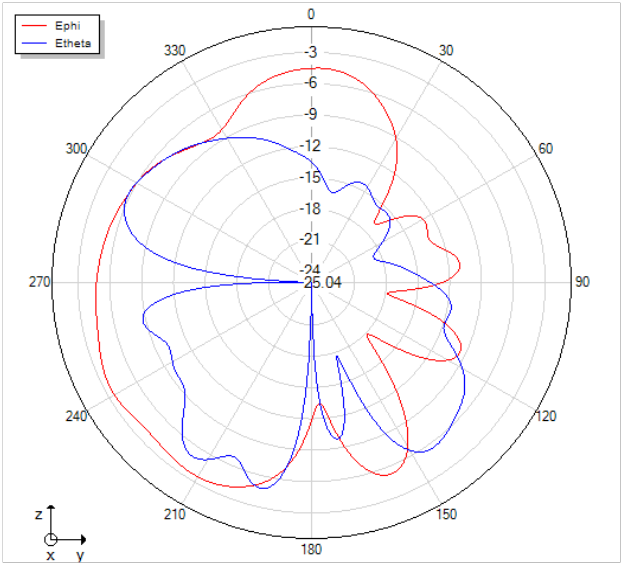


Lobe diagram

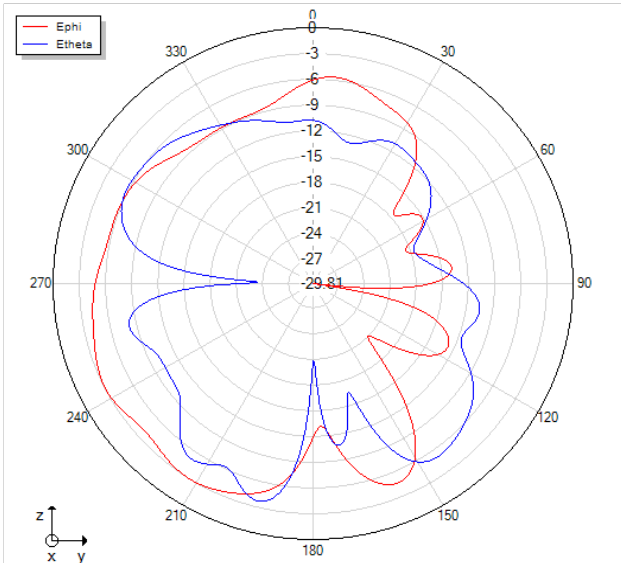
Phi=90 freq=2620MHz



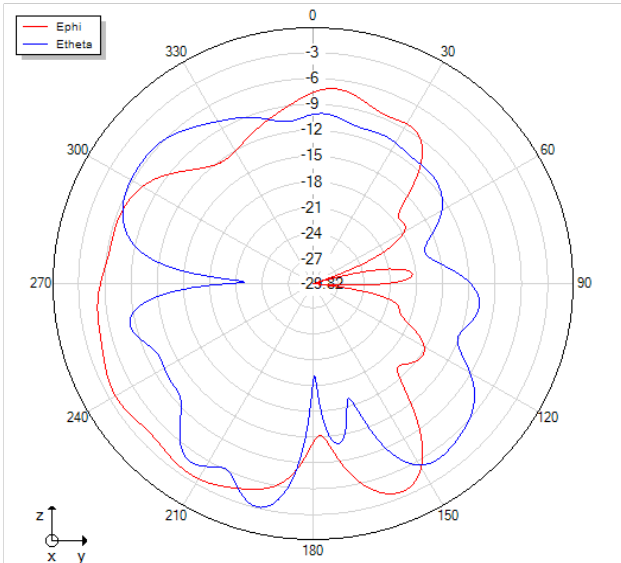
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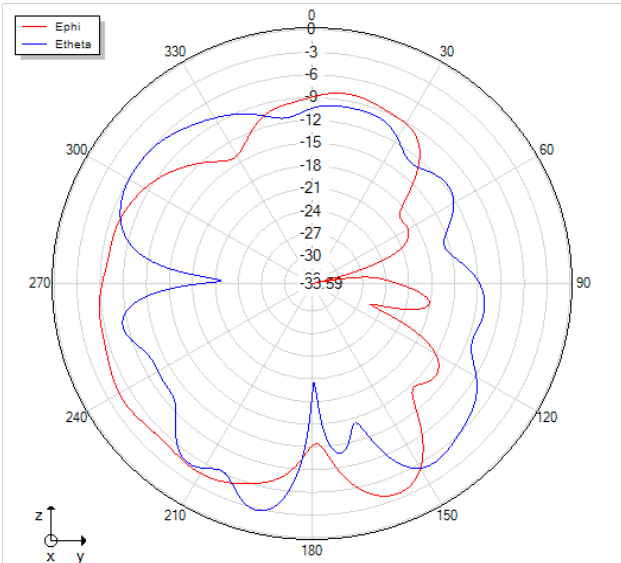
Phi=90 freq=2660MHz



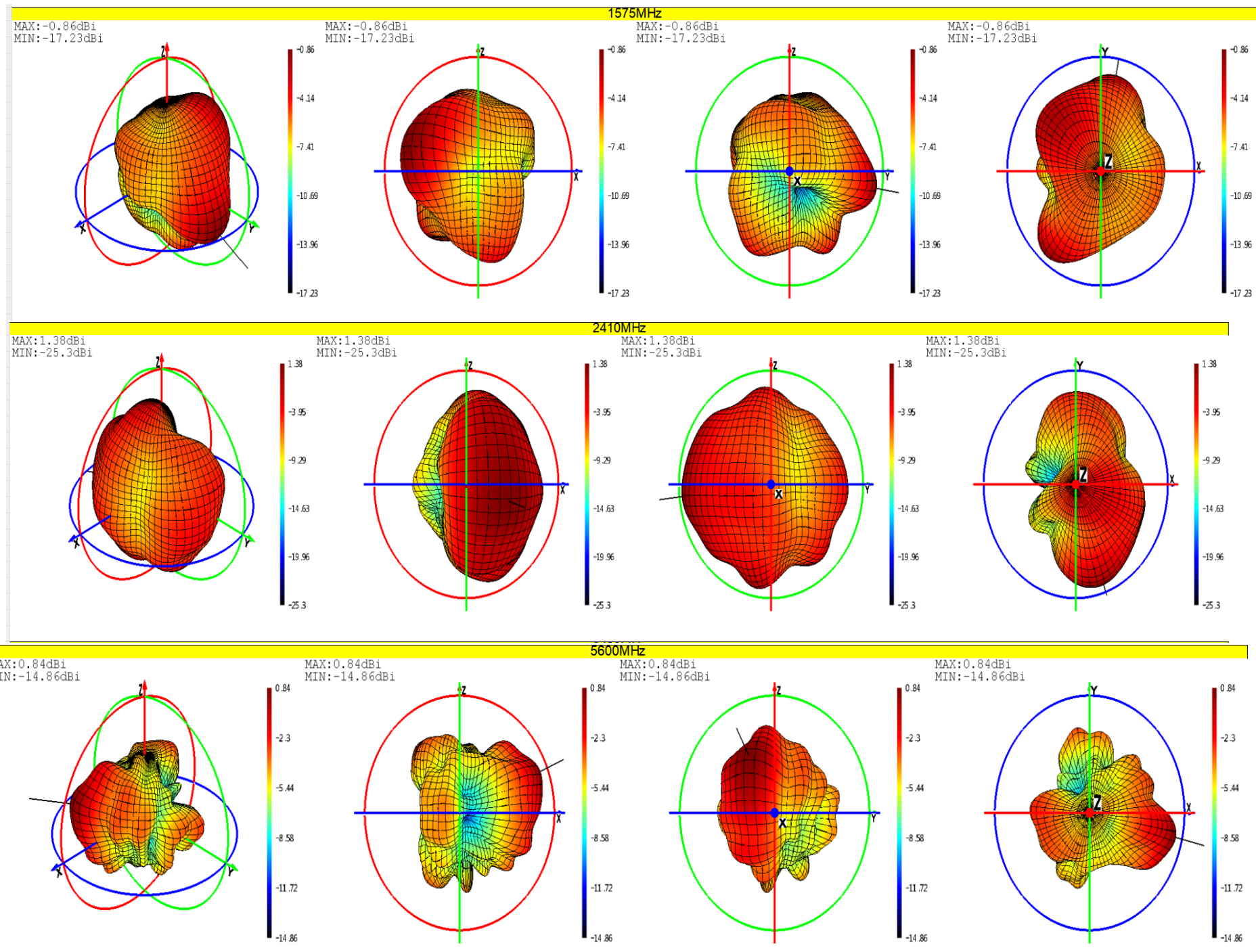
Phi=90 freq=2680MHz



Phi=90 freq=2700MHz



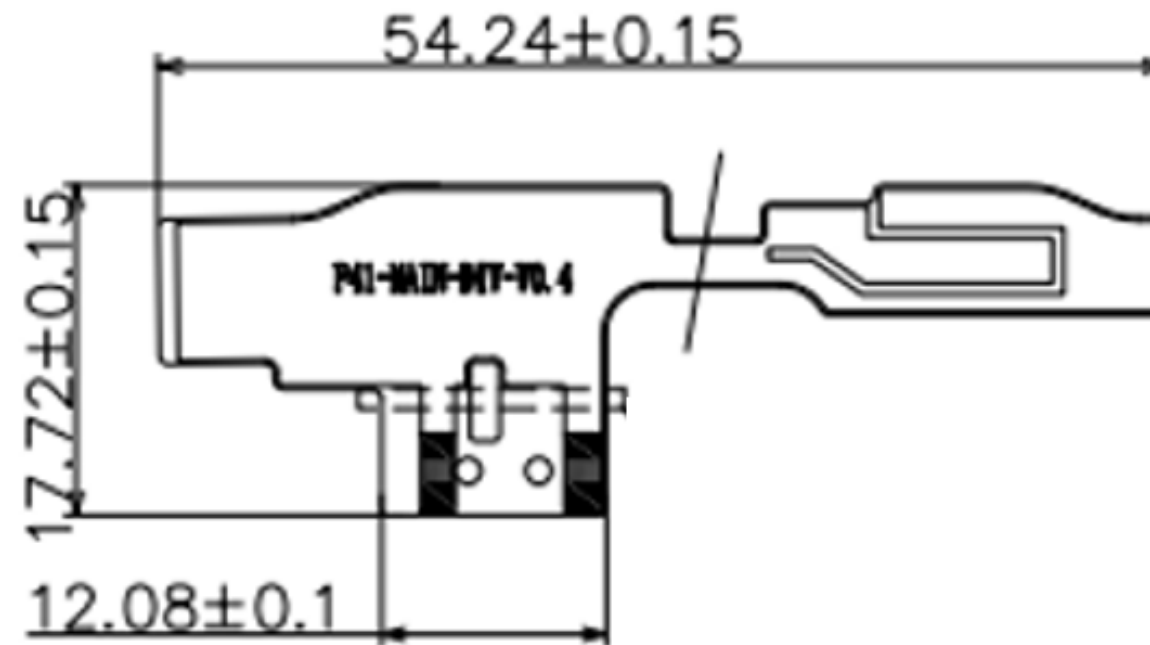
Antenna apple diagram



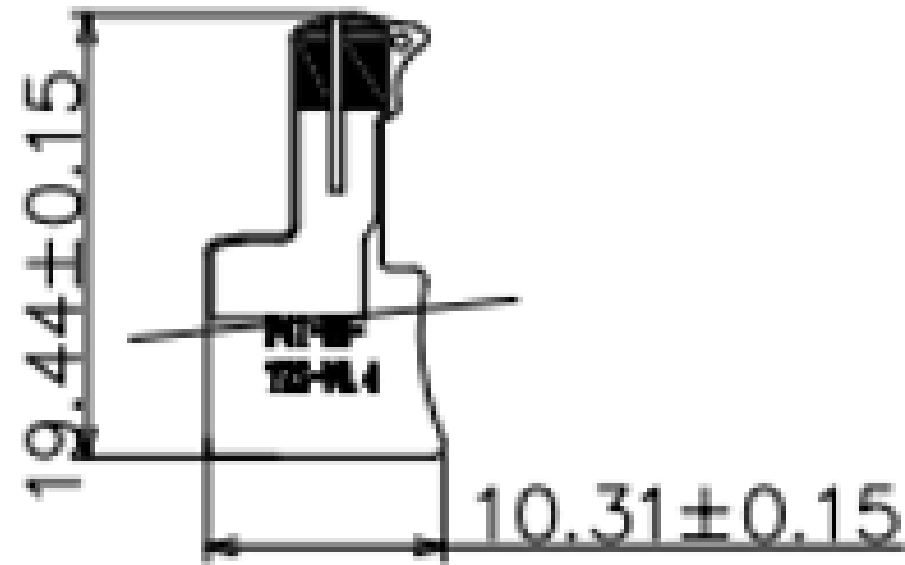
WIFI active data

Standard	Band	Channel	Frequency	TRP	TIS
WIFI_B	B_11M	1	2412	12.54	12.23
WIFI_B	B_11M	6	2437	12.61	12.16
WIFI_B	B_11M	11	2462	13.12	11.57
WIFI_A	A_54M	36	5180	10.64	9.54
WIFI_A	A_54M	64	5320	10.37	7.23
WIFI_A	A_54M	165	5825	10.26	7.45

Main antenna structure diagram



WIFI/BT antenna structure diagram



Diversity antenna structure diagram

