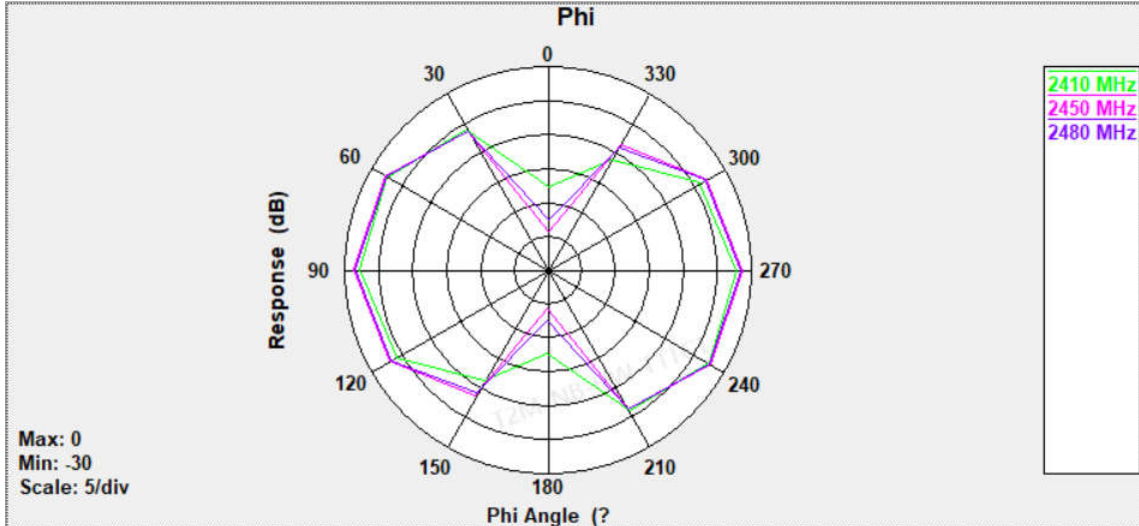


Antenna Report	
Company	Zebra Technologies Corporation
Model Name	Goose8 WWAN NA ET45BA
Type	WLAN5GHz/2.4GHz /Bluetooth Antenna type : IFA
Support Feature ①	WLAN: BT5.1+BLE; 2.4GHz 802.11b/g/n/ac/ax HT20 5GHz 802.11a/n/ac/ax HT20/40/80
Peak Gain ②	BT: 2402~2480MHz: 1.39 dBi  WLAN: ANT6: 2400~2483.5MHz: 1.39 dBi 5150~5250MHz: 1.68 dBi 5250~5350MHz: 1.68 dBi 5470~5725MHz:1.22 dBi 5725~5850MHz:1.52 dBi  ANT7: 2400~2483.5MHz: 0.47 dBi 5150~5250MHz: 0.87 dBi 5250~5350MHz: 1.35 dBi 5470~5725MHz: 2.34 dBi 5725~5850MHz: 1.72 dBi

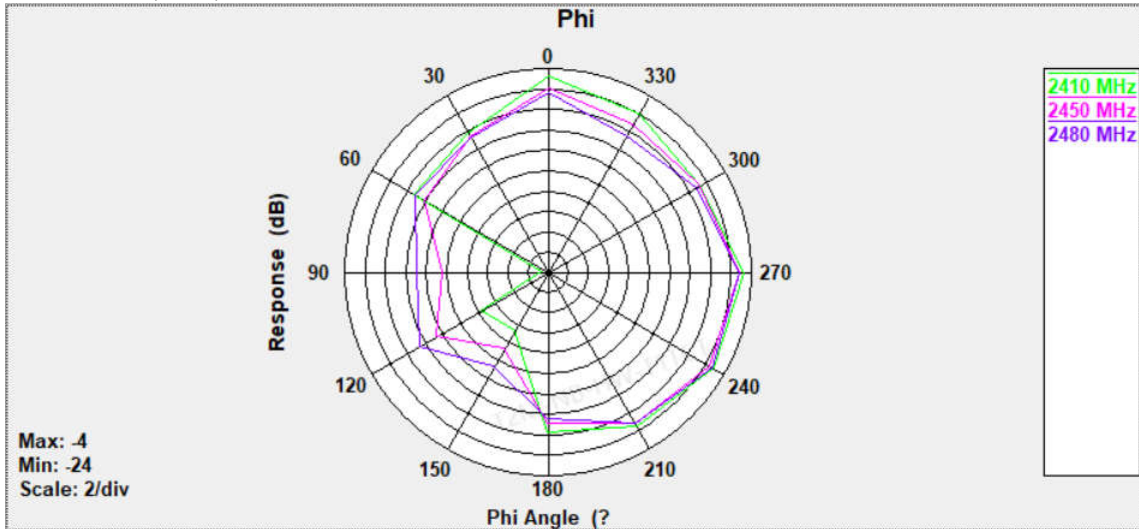
Test Site: SATIMO

ANT6:

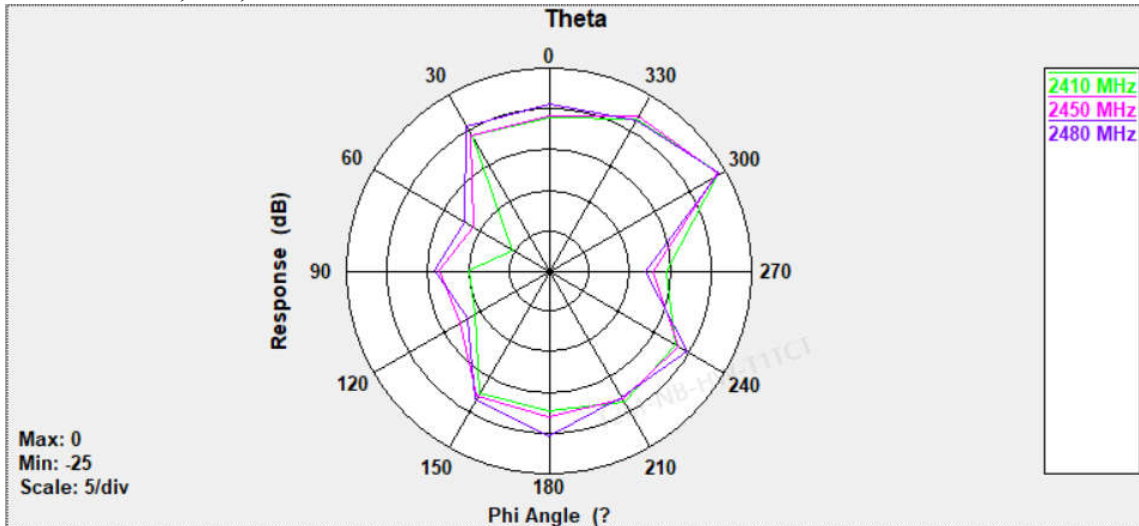
Phi0: 2410,2450,2480MHz



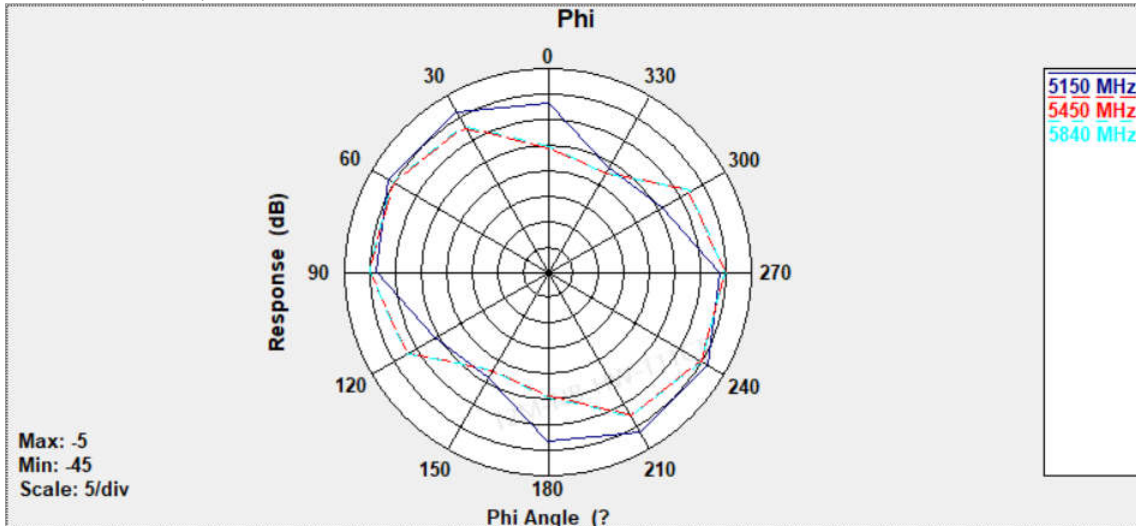
Phi90: 2410,2450,2480MHz



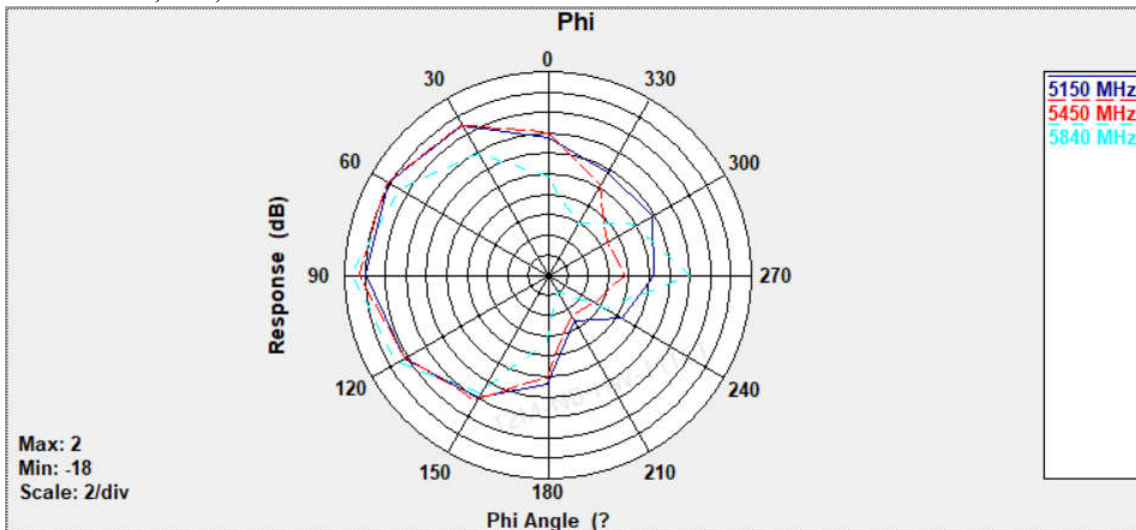
Theta90: 2410,2450,2480MHz



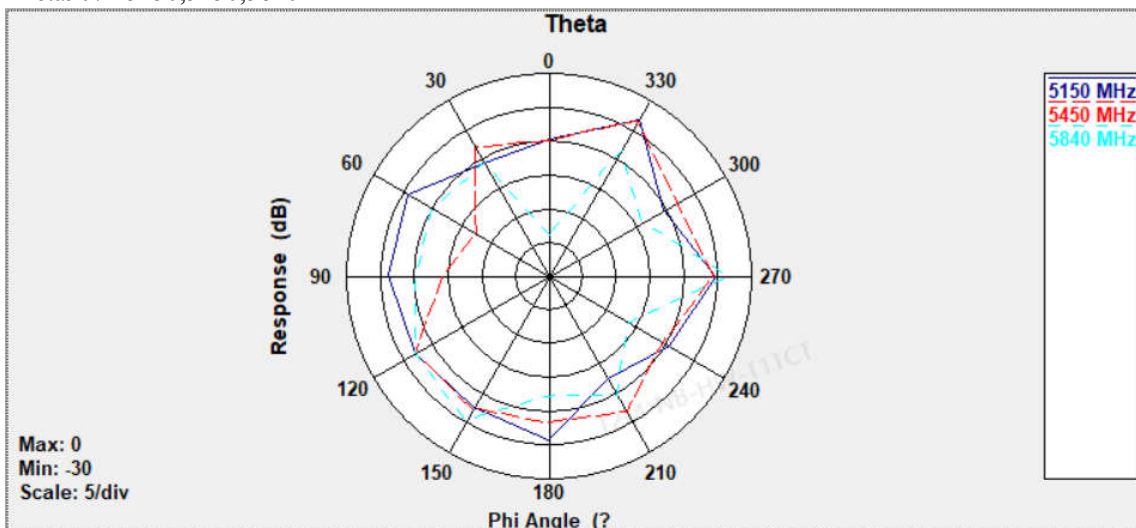
Phi0: 5150,5450,5840MHz



Phi90: 5150,5450,5840MHz

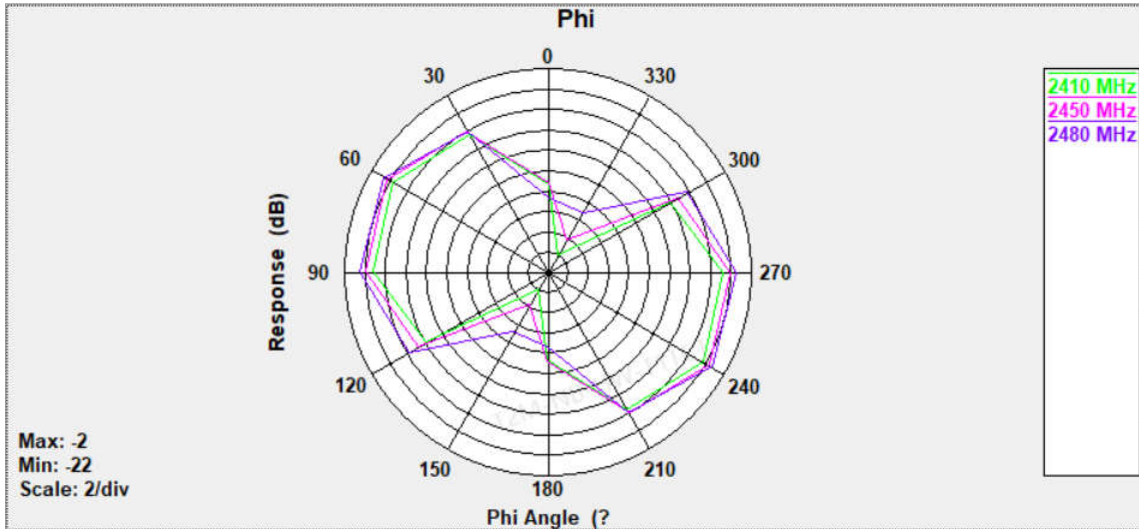


Theta90: 5150,5450,5840MHz

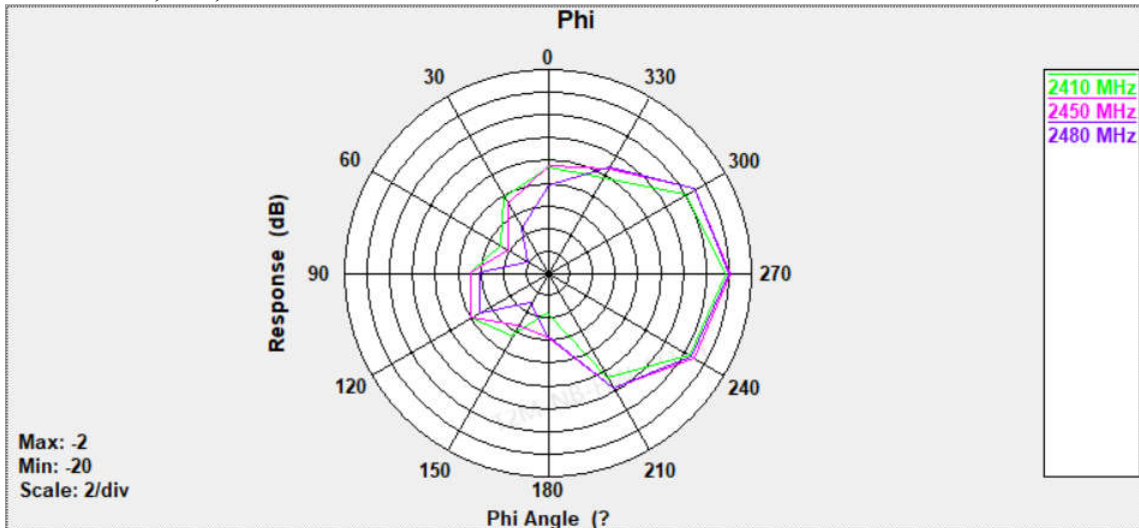


ANT7:

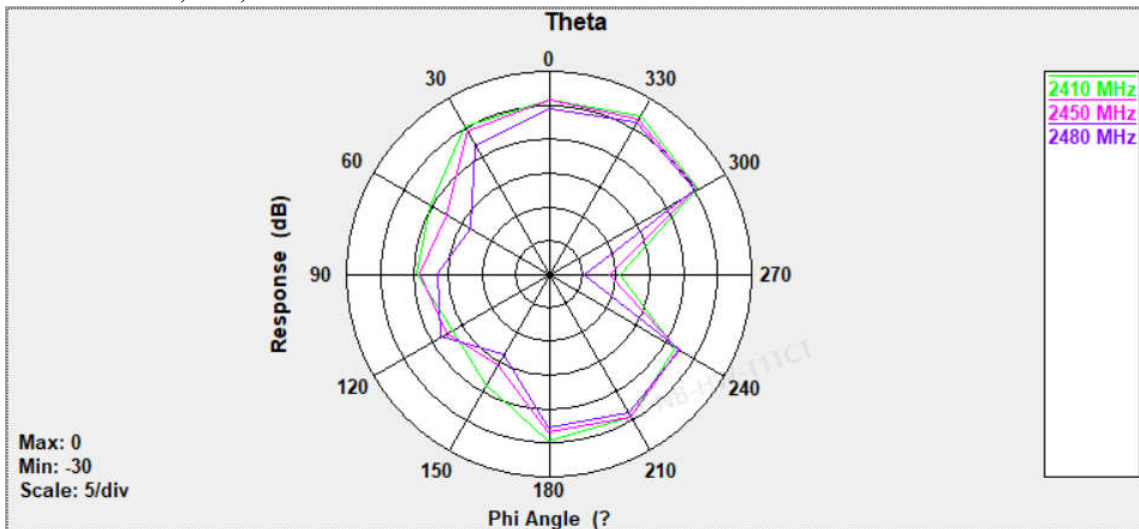
Phi0: 2410,2450,2480MHz



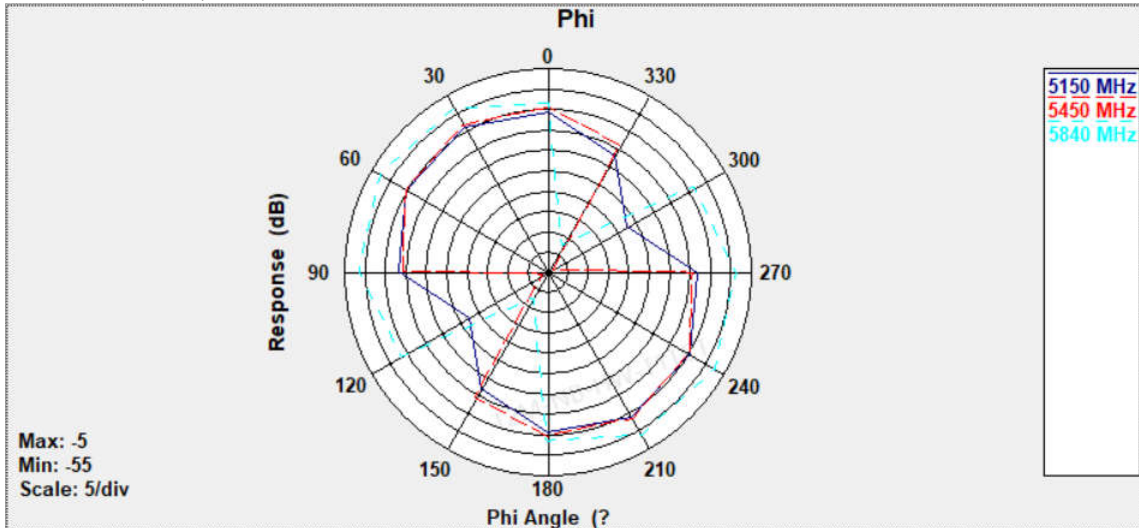
Phi90: 2410,2450,2480MHz



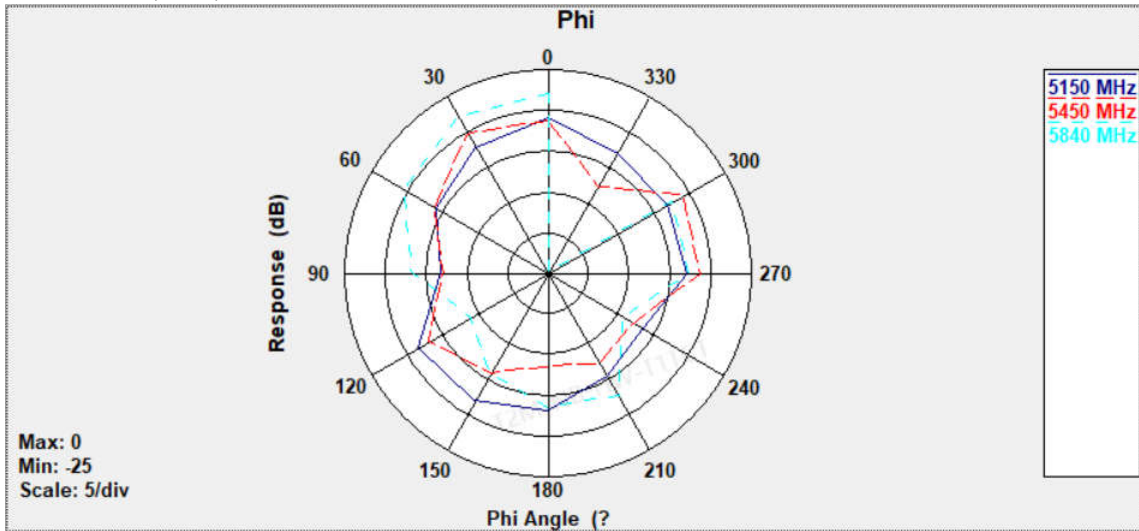
Theta90: 2410,2450,2480MHz



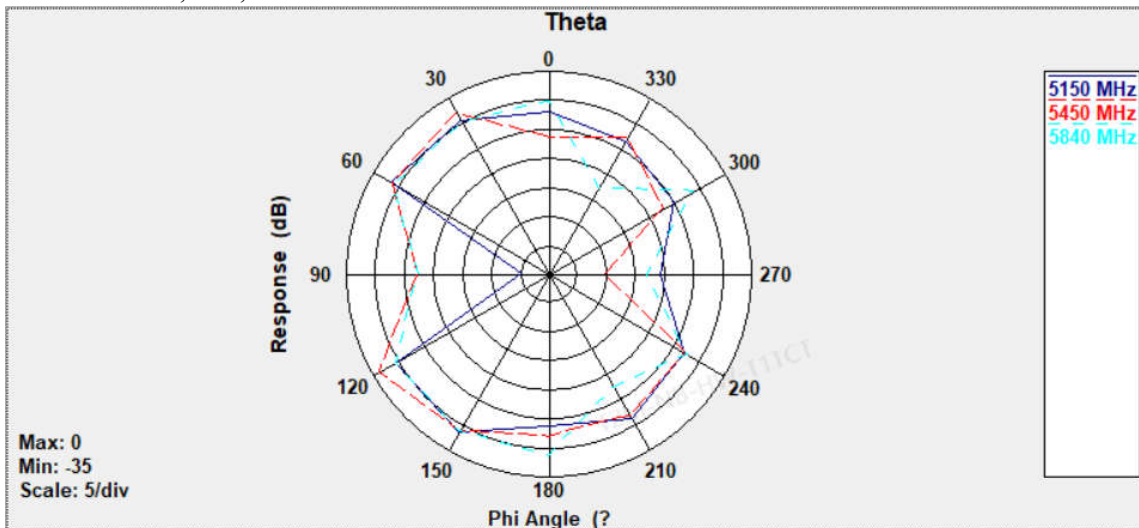
Phi0: 5150,5450,5840MHz



Phi90: 5150,5450,5840MHz



Theta90: 5150,5450,5840MHz



# Antenna Report

Company	Zebra Technologies Corporation
Model me	ET45BA

Type	Antenna type : IFA
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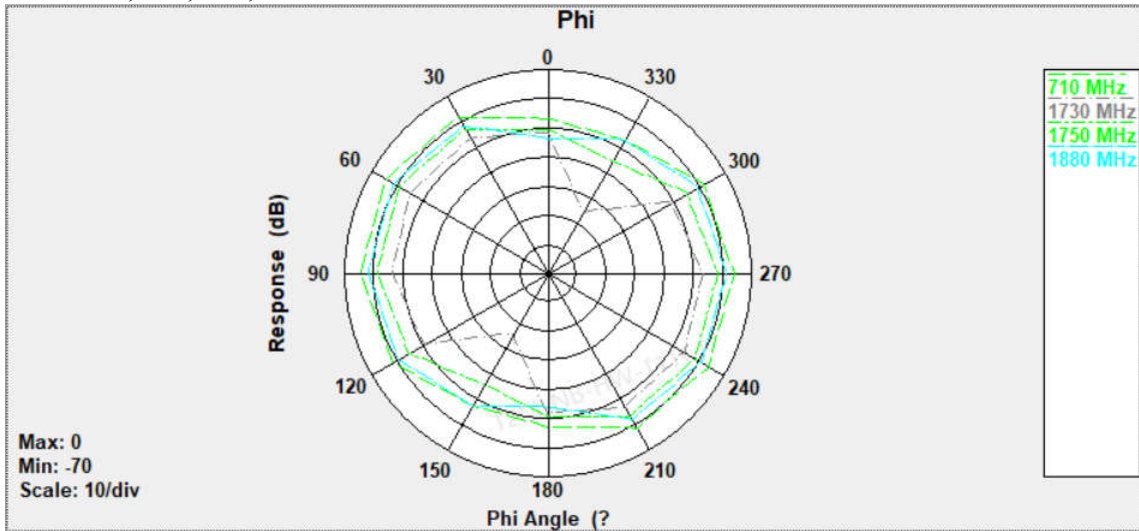
Support Feature ①	WWAN NA:			
	Antenna	Mode	TX Band	RX Band
	ANT0 TRX1-LMH	LB/MB/HB	LB:B5/12/13/14/17/26/71 N5/12/71 MB: B2/4/25/66 N2/25/66 HB: LTE:B7/38/41 NR:N7/38/41	LB:B5/12/13/14/17/26/71 N5/12/71 MB: B2/4/25/66 N2/25/66 HB: LTE:B7/38/41 NR:N7/38/41
	ANT1 DRX-LHU	LB/HB/UHB	B41 N41/77/78	LB:B5/12/13/14/17/26/71 N5/12/71 HB: B7/38/41 N7/38/41 UHB:B48 N48/77/78
	ANT2 TRX0_LMH	LB/MB/HB	LB: B5 N5 MB: B2/66 N2/66 HB: B7/38/41 N7/38/41	LB: B5 N5 MB: B2/4/25/66 N2/25/66 HB: B7/38/41 N7/38/41
	ANT3 TRX0-U_DRX-MH	MB/UHB	UHB: B48 N48/77/78	MB: B2/4/25/66 N2/25/66 UHB: B48 N48/77/78
	ANT4 PM-MHU	MB/HB/UHB	B41, N41/77/78	MHB: B2/4/7/25/38/41/66 N2/7/25/38/41/66 UHB: B48 N48/77/78
	ANT5 DM-MH_DRX-L	LB/MB/HB/UHB	B41, N41/77/78	LB: B5/26 N5 MHB: B2/4/7/25/38/41/66 N2/7/25/38/41/66 UHB: B48 N48/77/78
	ANT6	WIFI/BT	BT/WIFI(2.4G/5G)	BT/WIFI(2.4G/5G)
	ANT7	WIFI/GPS	WIFI(2.4G/5G)	WIFI(2.4G/5G) GPS L5
ANT8	GPS		GPS L1	

Peak Gain ②		Ant0	Ant1	Ant2	Ant3	Ant4	Ant5	
	FDD 2/5G N2(1850-1910 MHz): US	-1.1		0.4				
	FDD 4(1710-1755 MHz): US	-0.9						
	FDD 5/5G N5 (824-849 MHz): US	0.0		-2.4				
	FDD 7/5G N7 (2500-2570 MHz): EU	2.6		2				
	FDD 12/5G N12 (699-716 MHz): US	-3.3						
	FDD 13(777-787 MHz): US	0.4						
	FDD 14(788-798 MHz): US	0.1						
	FDD 17(704-716 MHz): US	-3.3						
	FDD 25/5G N25 (1850-1915 MHz): US	-1.1						
	FDD 26(814-849 MHz): US	0.0						
	FDD 66/5G N66 (1710-1780 MHz): US	-0.9			1.7			
	FDD 71,(663-698 MHz): US	-1.9						
	TDD 48/5G N48 (3540-3600 MHz): US					SRS peak gain-1.8		
	TDD 48/5G N48 (3601-3659 MHz): US					SRS peak gain-0.9		
	TDD 48/5G N48 (3660-3700 MHz): US					SRS peak gain-0.8		
	TDD B38/5G n38(2570-2620 MHz): US, EU, China	2.4			1			
	TDD 41n41(2496-2690 MHz): US			SRS peak gain 1	2.0		SRS peak gain -1.4	SRS peak gain -1.9
	n77(3300-3550 MHz)					SRS peak gain 0.3		
	n77(3551-3750 MHz)			SRS peak gain -1		SRS peak gain 0.4	SRS peak gain0.4	SRS peak gain 0.2
	n77(3751-4200 MHz)					SRS peak gain 0.5		
	n78(3300-3550 MHz)					SRS peak gain 0.3		
	n78(3551-3750 MHz)			SRS peak gain -1		SRS peak gain 0.4	SRS peak gain 0.4	SRS peak gain 0.2
	n78(3751-3800 MHz)					SRS peak gain 0.5		

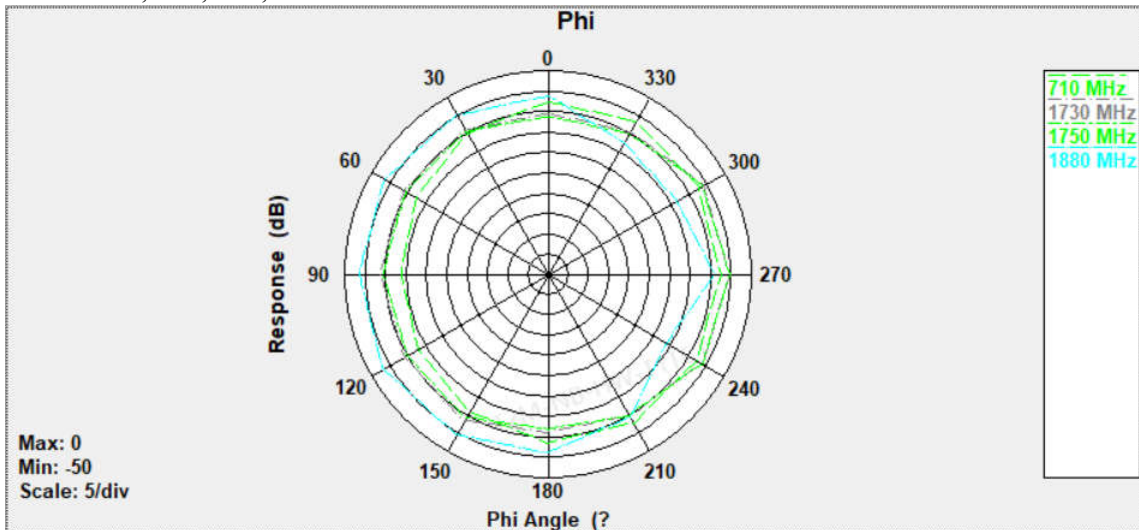
Test Site: SATIMO

ANT0:

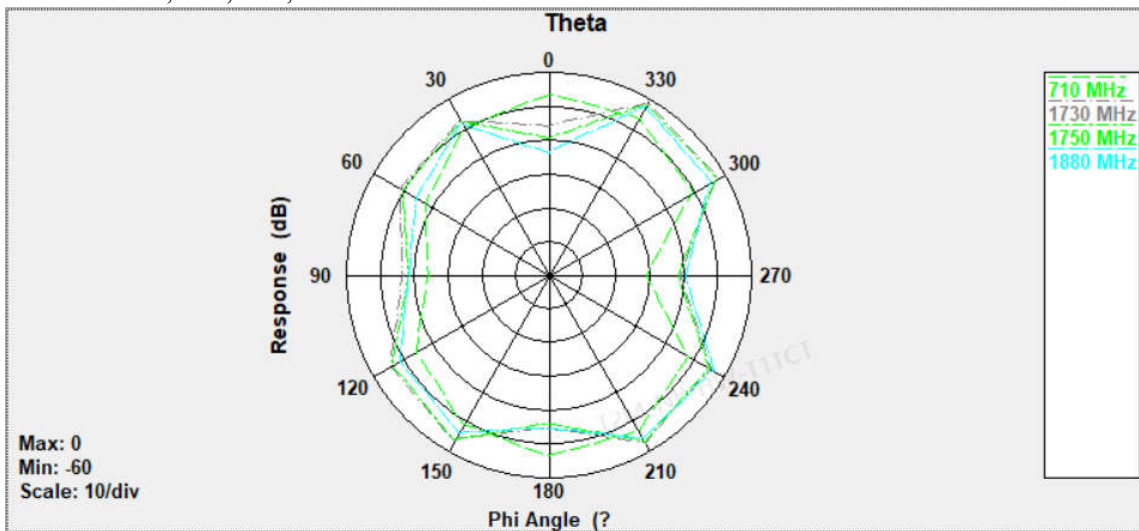
Phi0: 710,1730,1750,1880MHz



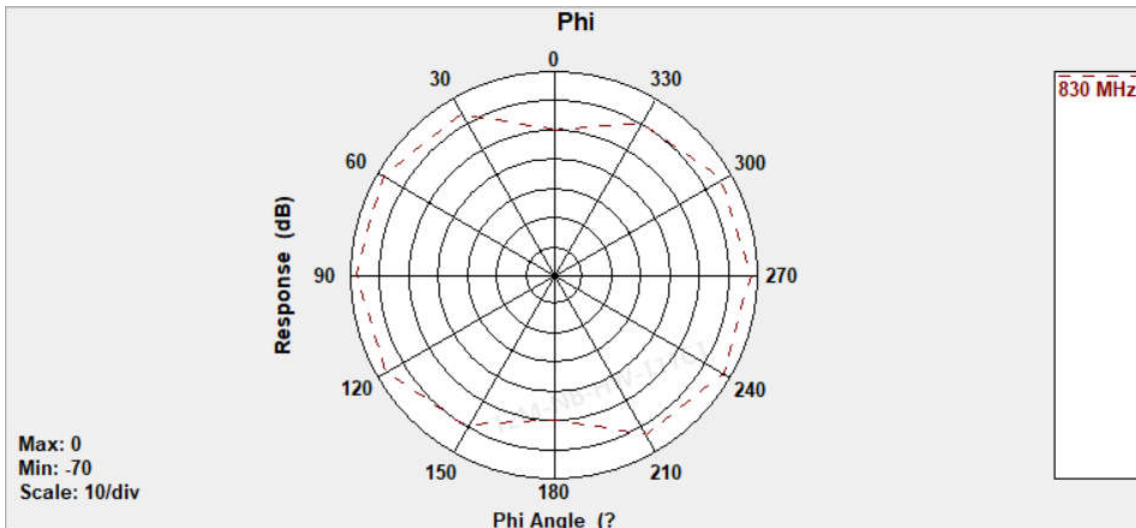
Phi90: 710,1730,1750,1880MHz



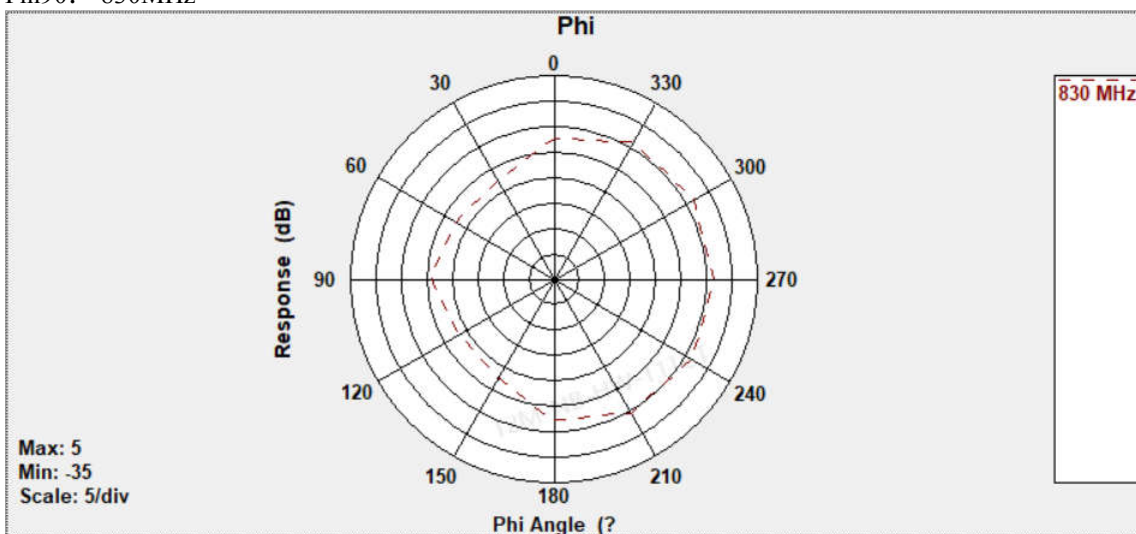
Theta90: 710,1730,1750,1880MHz



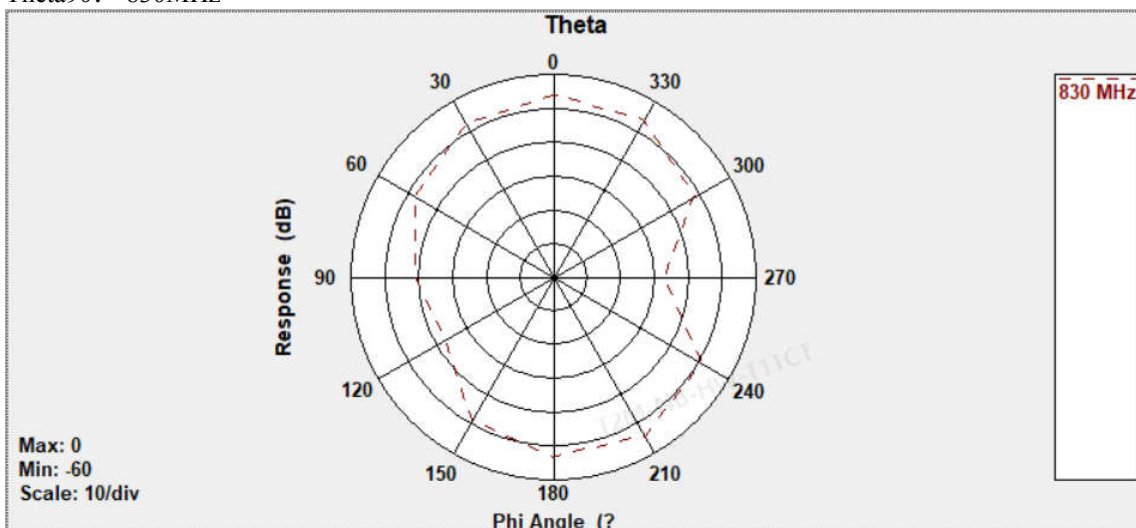
Phi0: 830MHz



Phi90: 830MHz

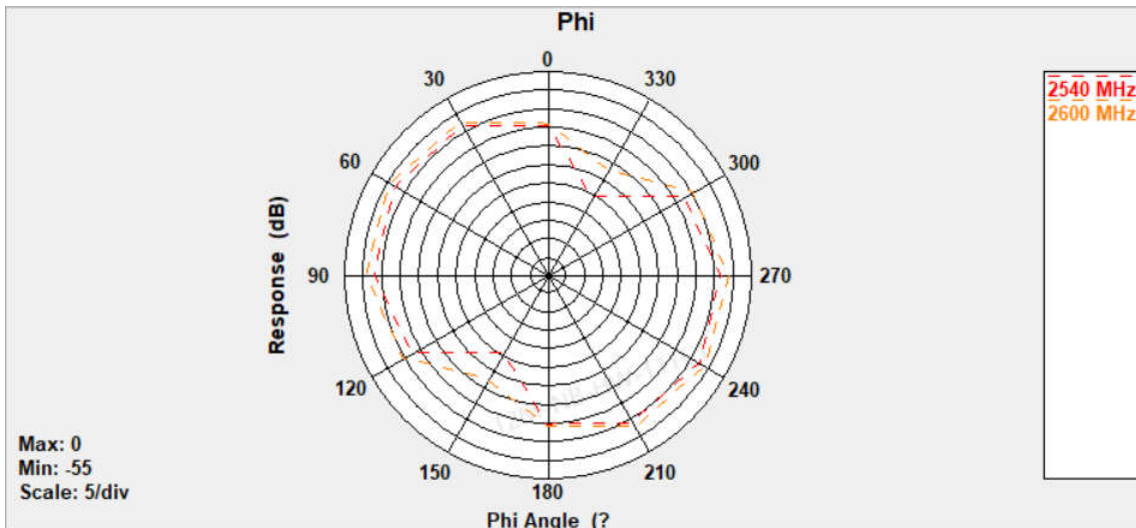


Theta90: 830MHz

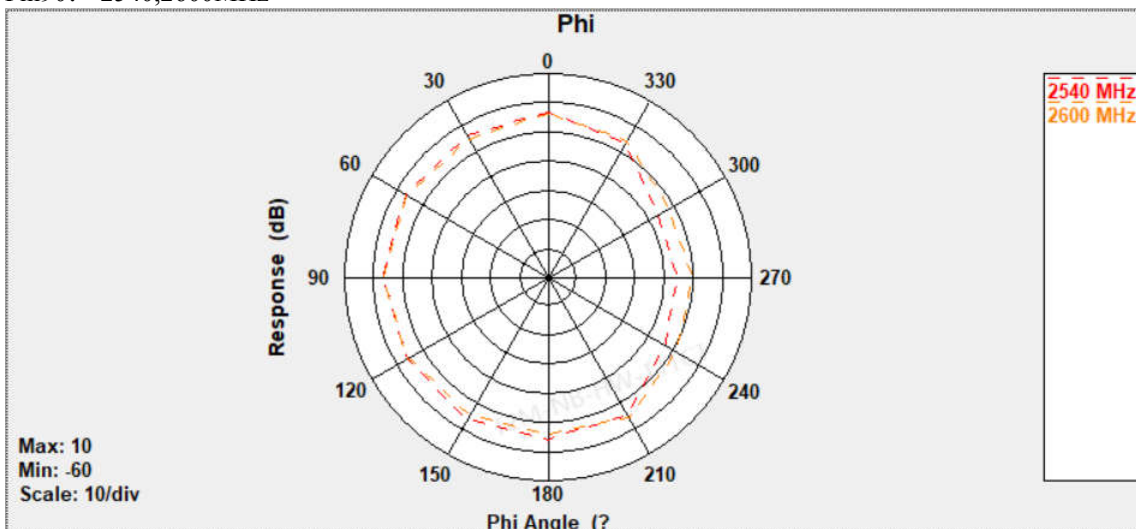


Phi0: 2540,2600MHz

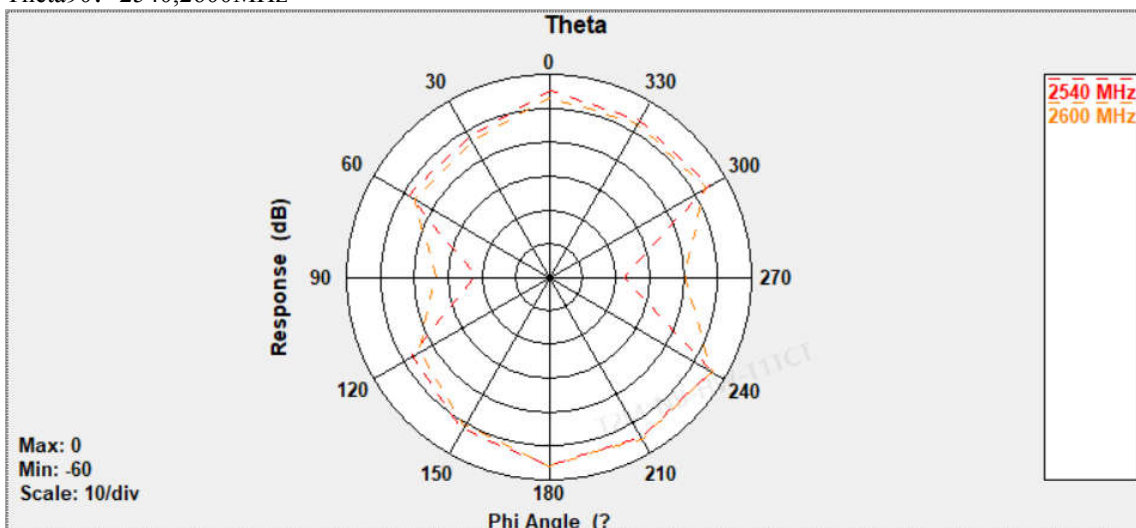




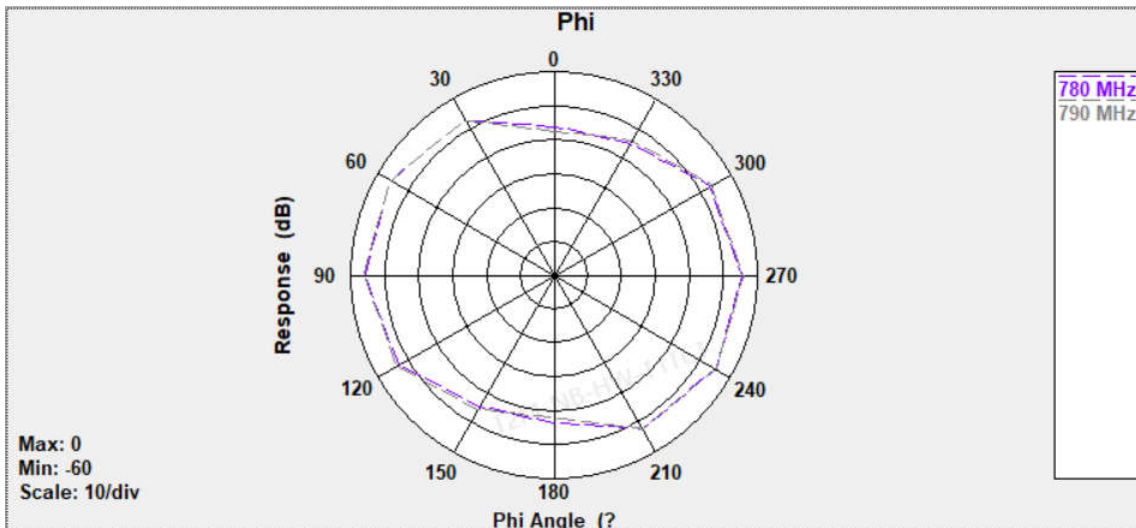
Phi90: 2540,2600MHz



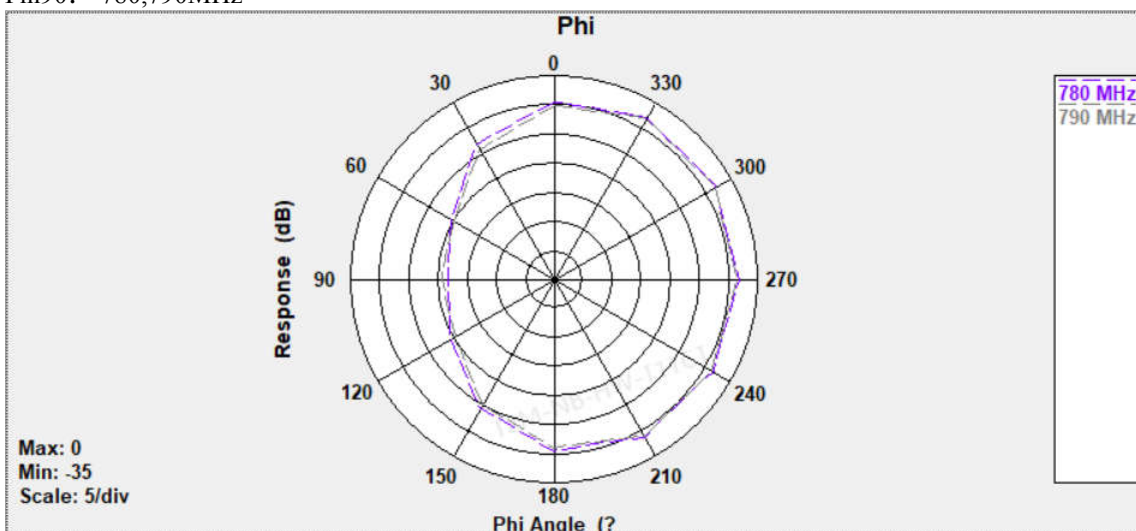
Theta90: 2540,2600MHz



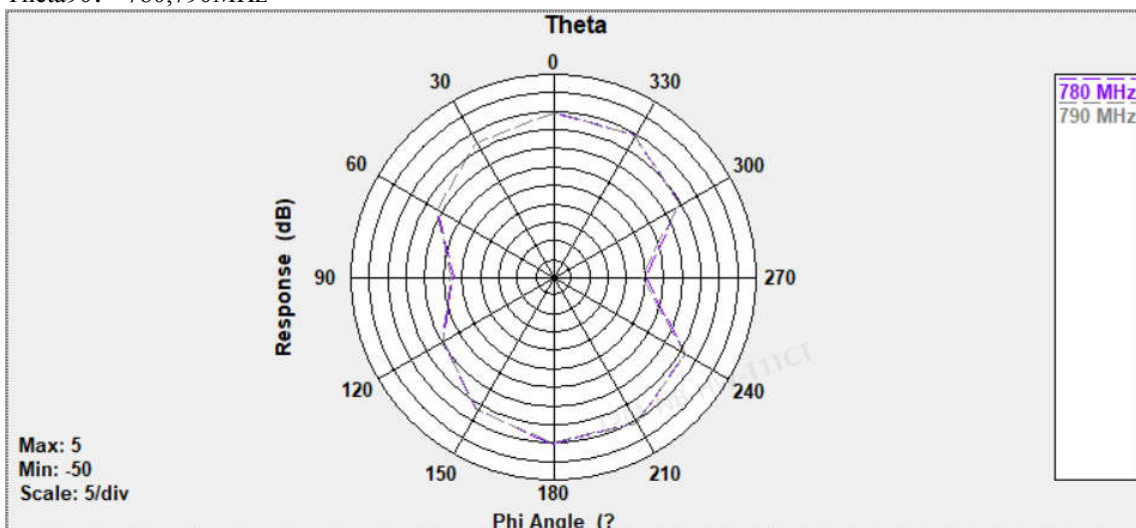
Phi0: 780,790MHz



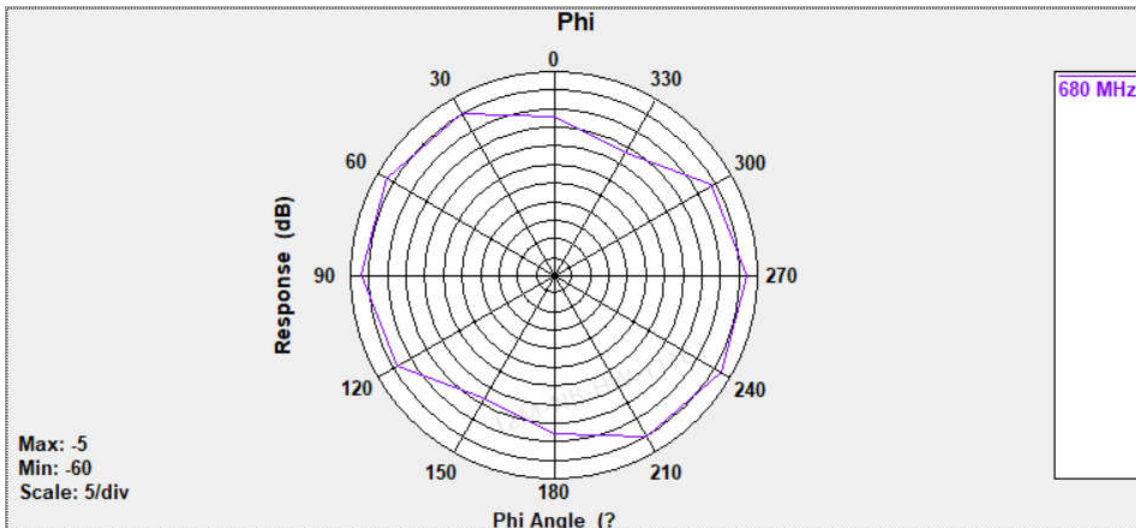
Phi90: 780,790MHz



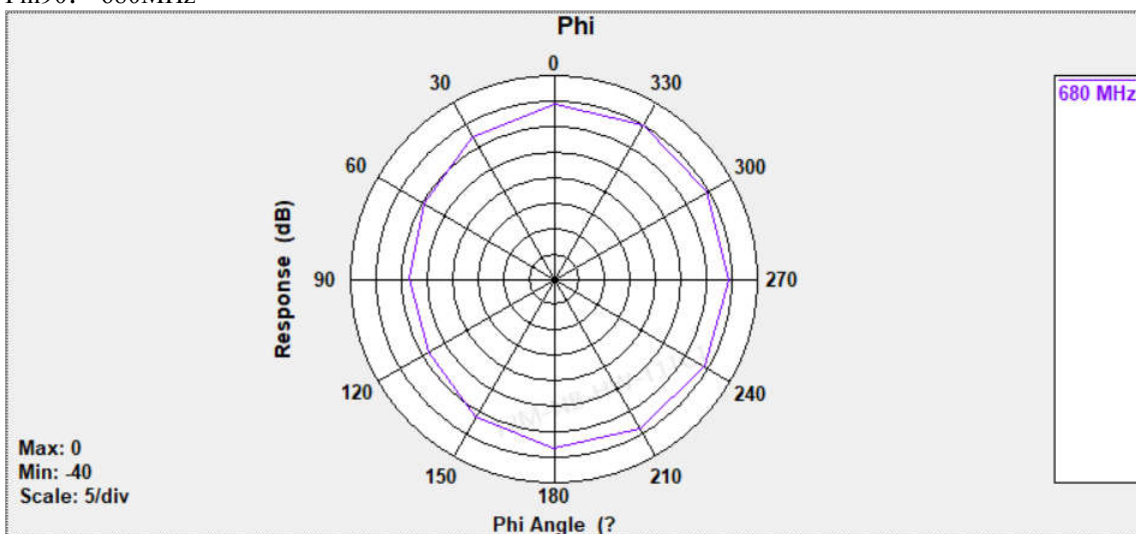
Theta90: 780,790MHz



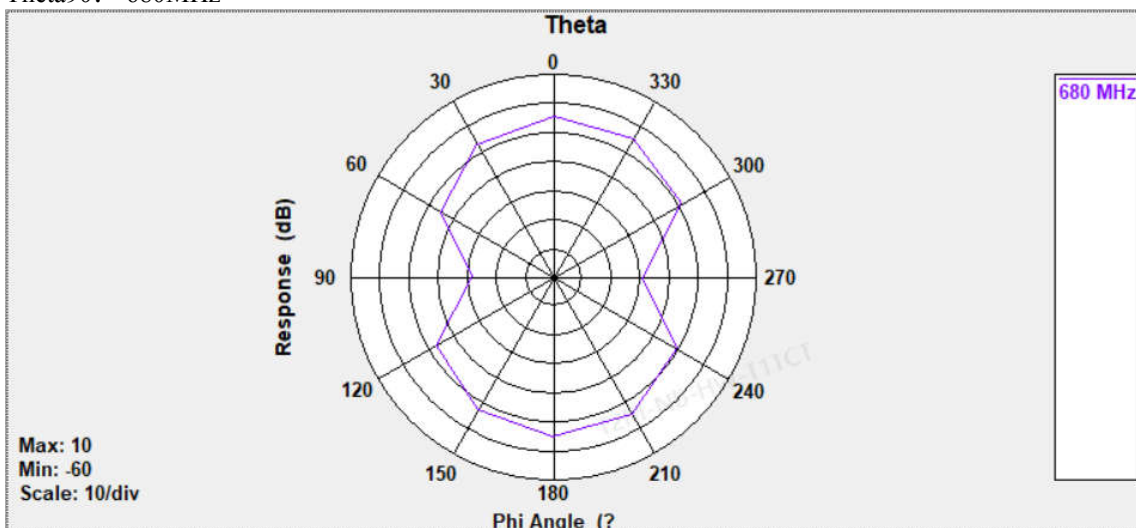
Phi0: 680MHz



Phi90: 680MHz

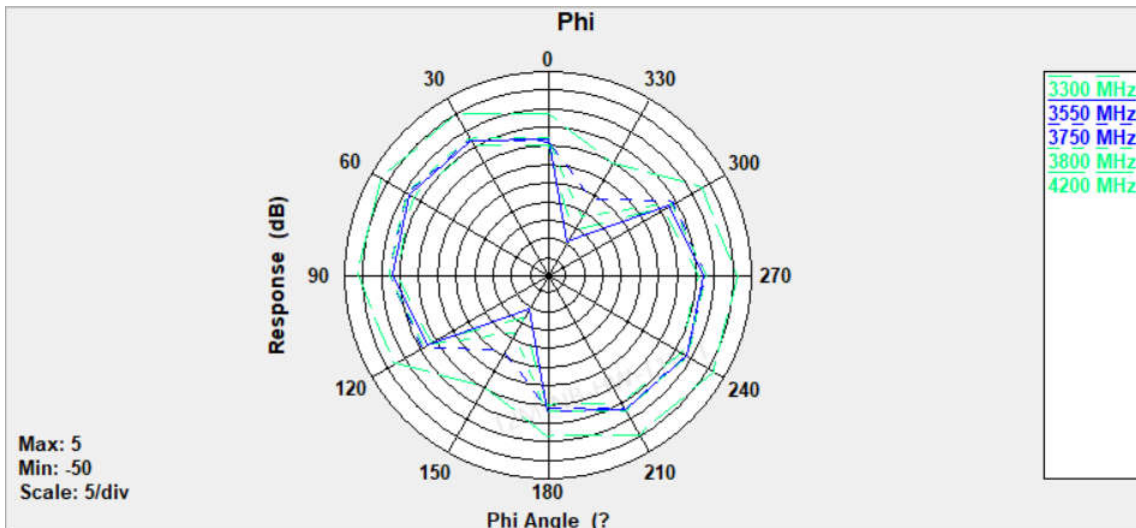


Theta90: 680MHz

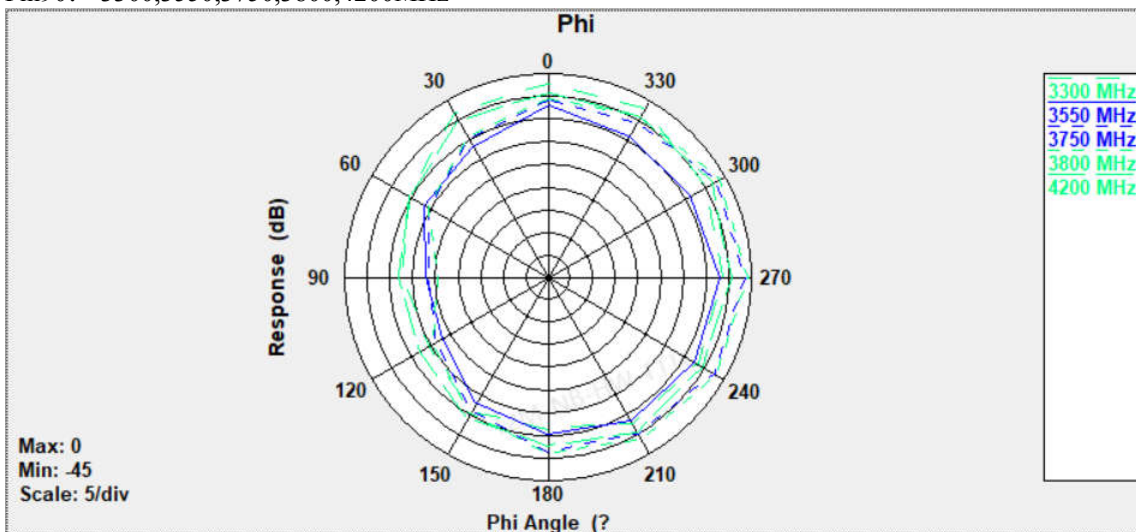


ANT1:

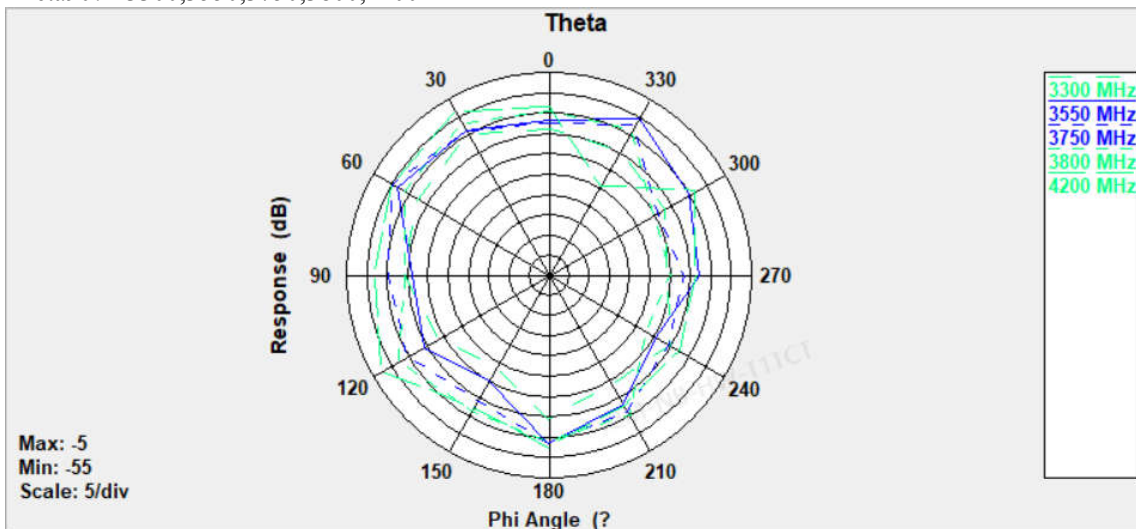
Phi0: 3300,3550,3750,3800,4200MHz



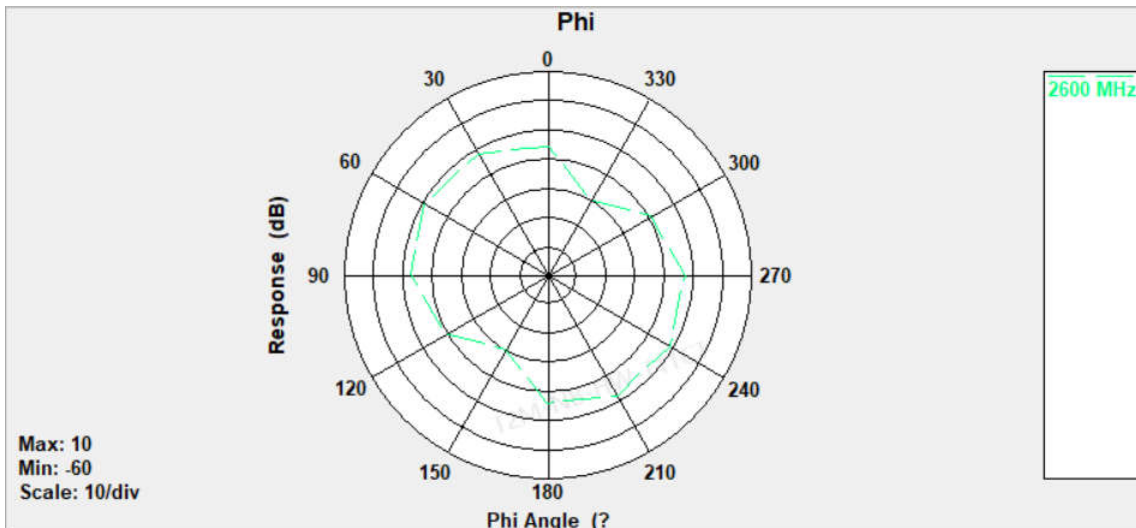
Phi90: 3300,3550,3750,3800,4200MHz



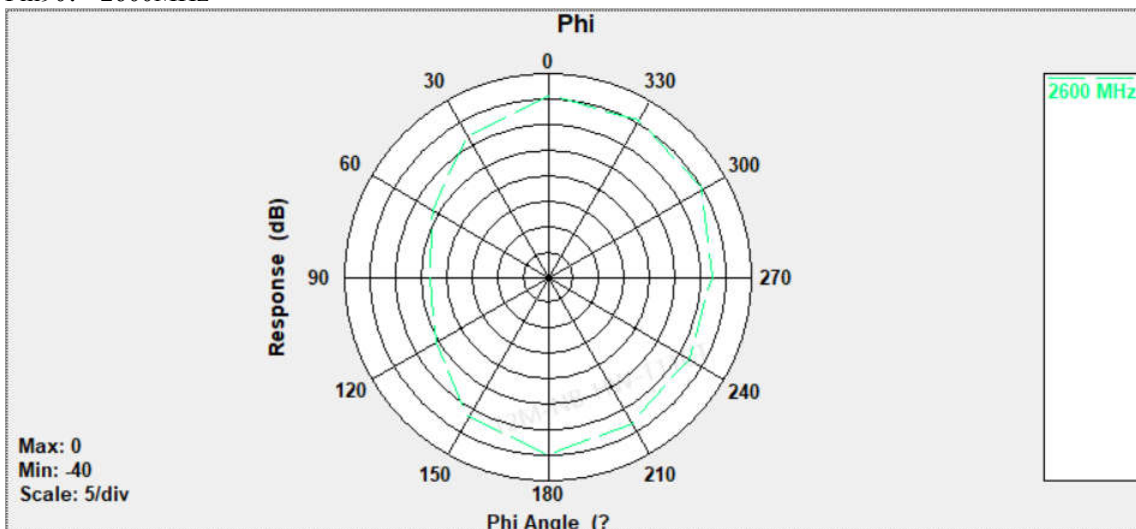
Theta90: 3300,3550,3750,3800,4200MHz



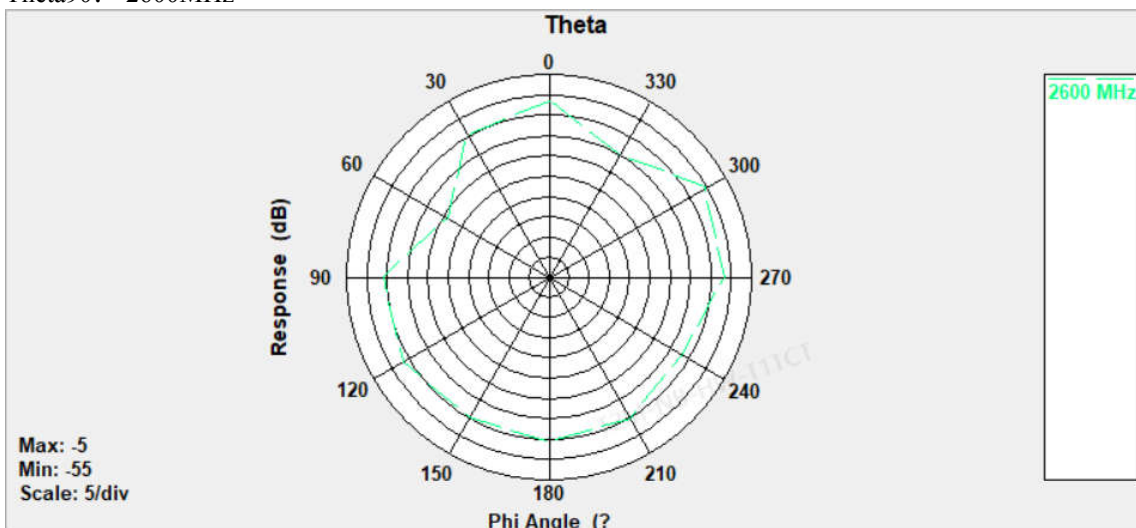
Phi0: 2600MHz



Phi90: 2600MHz

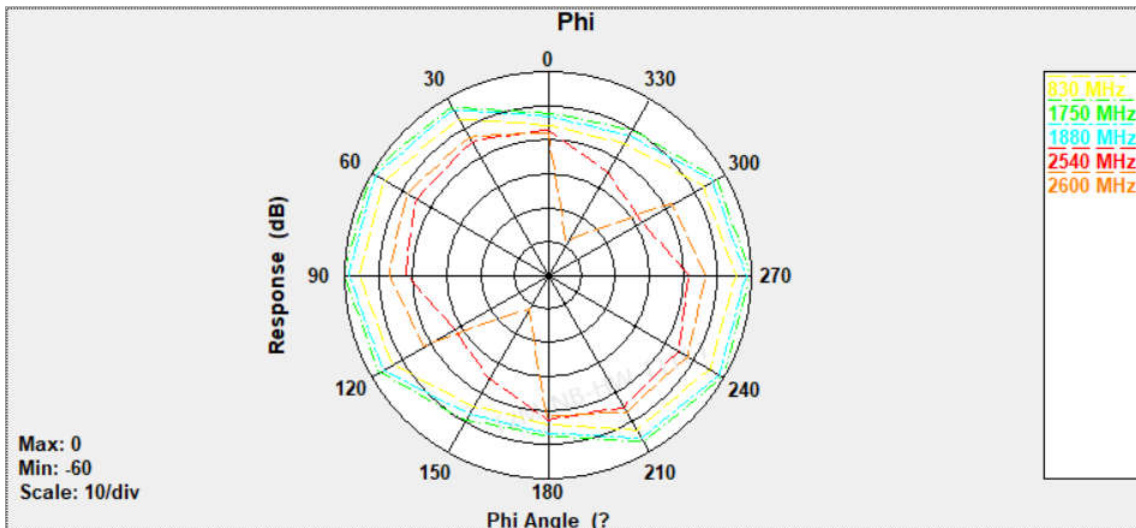


Theta90: 2600MHz

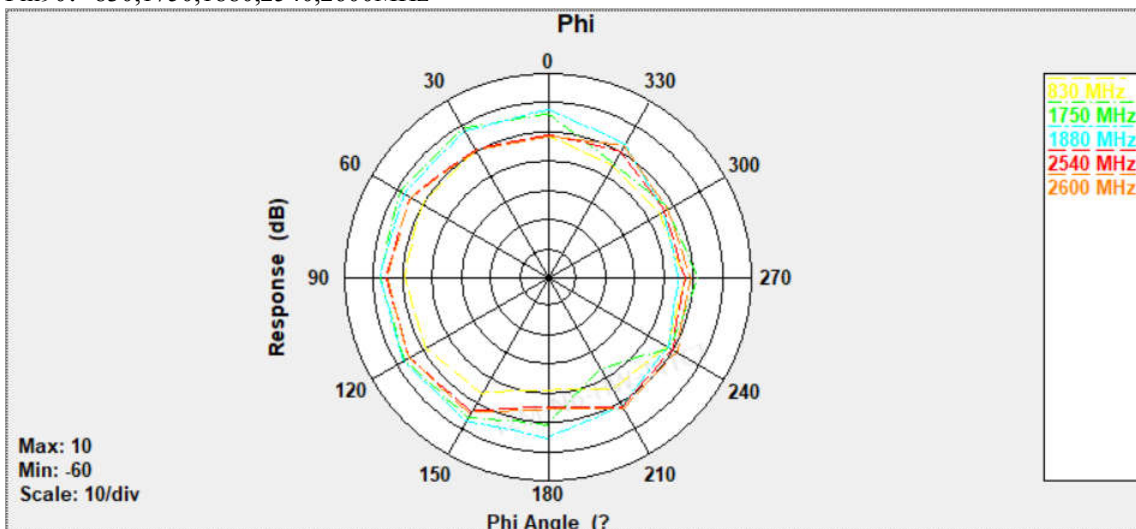


ANT2:

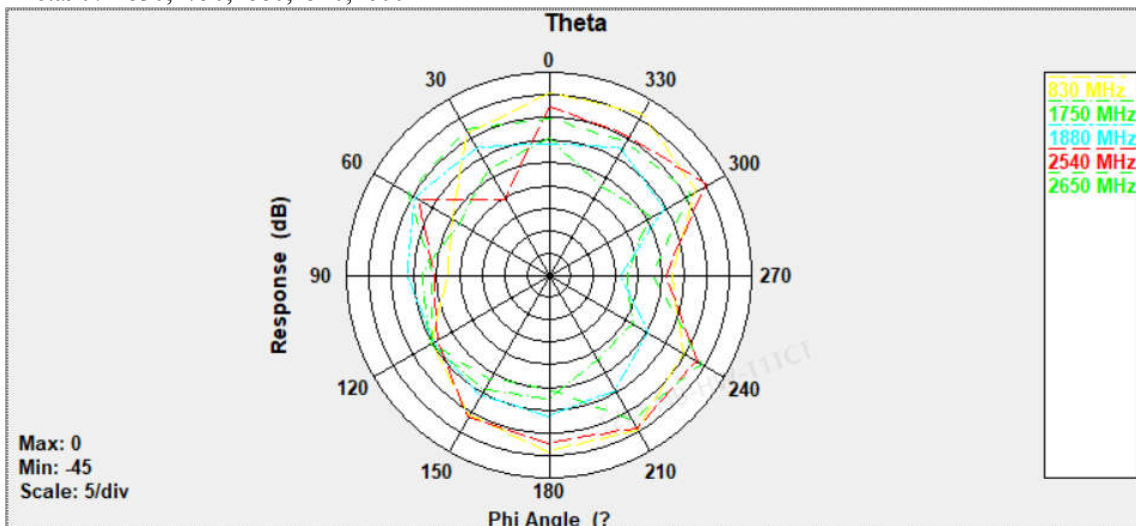
Phi0: 830,1750,1880,2540,2600MHz



Phi90: 830,1750,1880,2540,2600MHz

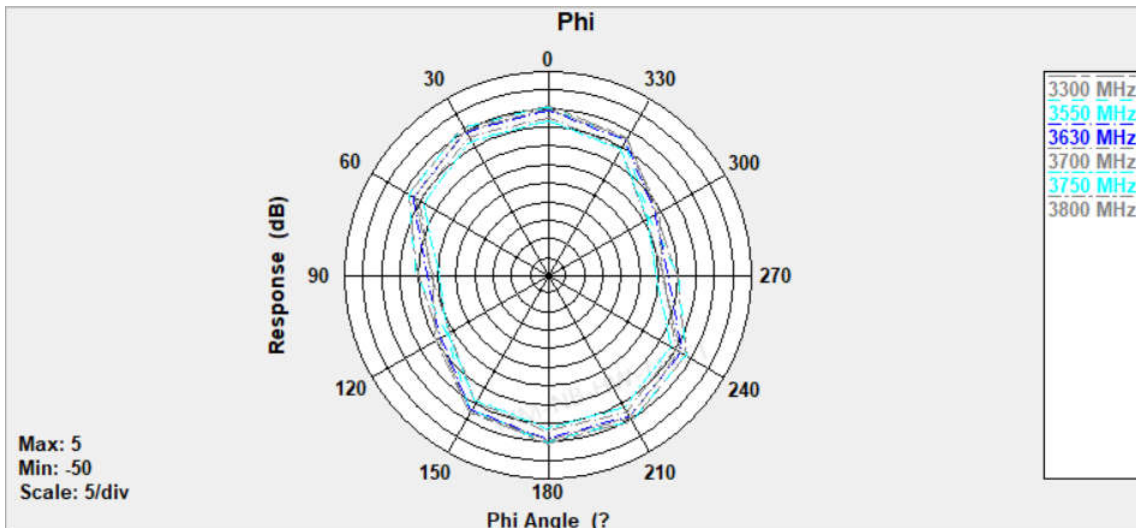


Theta90: 830,1750,1880,2540,2600MHz

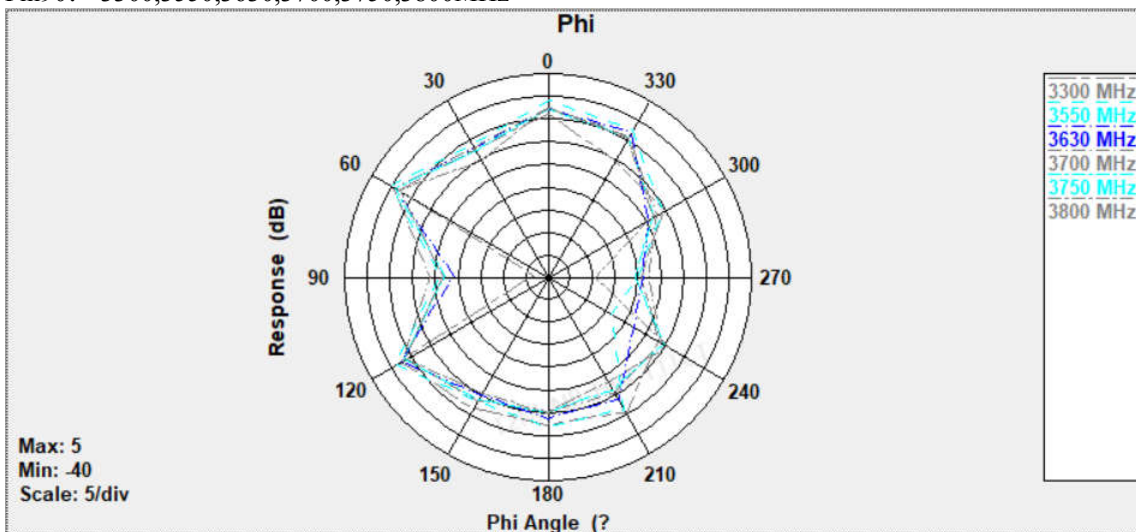


ANT3:

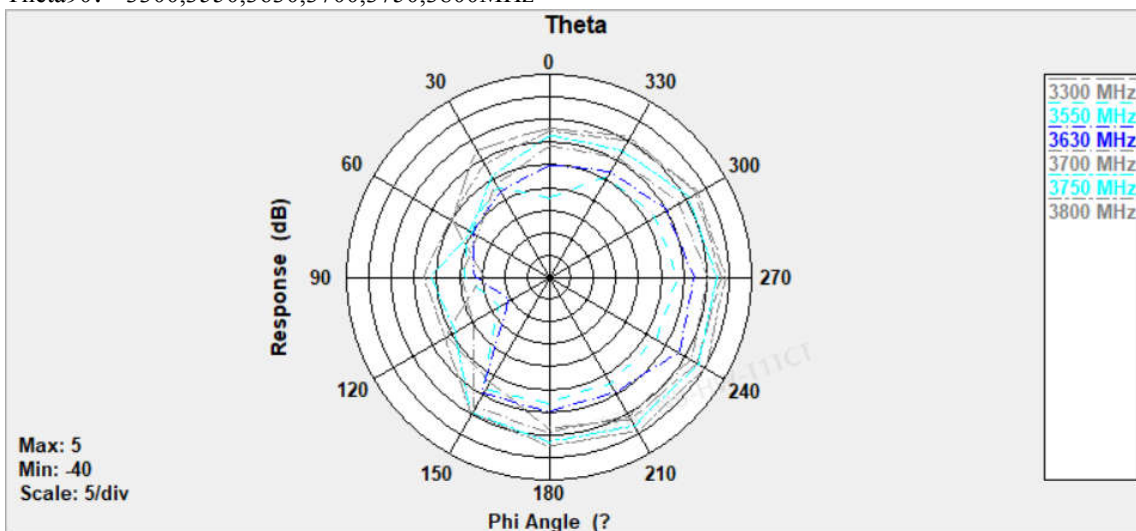
Phi0: 3300,3550,3630,3700,3750,3800 MHz



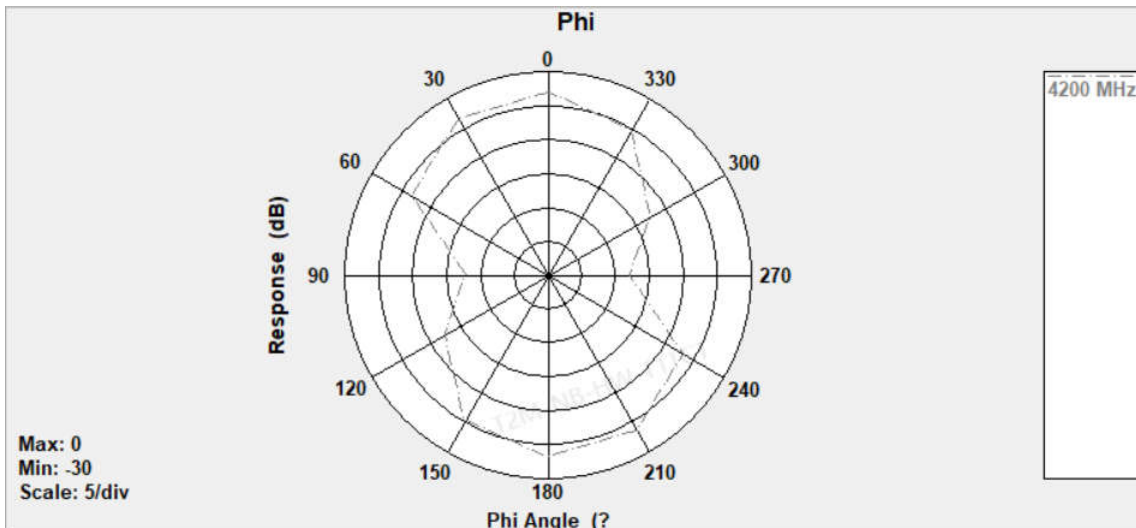
Phi90: 3300,3550,3630,3700,3750,3800MHz



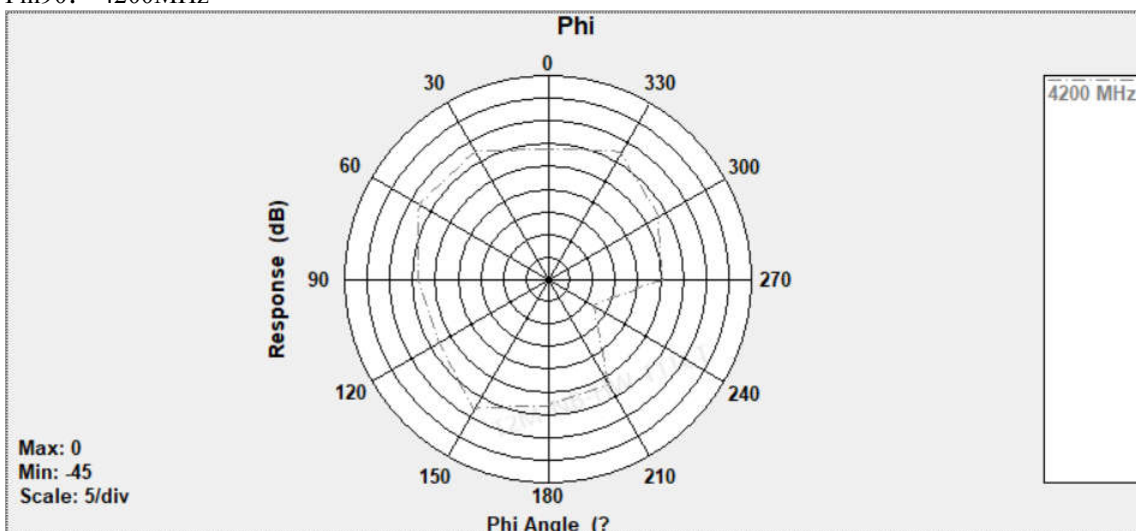
Theta90: 3300,3550,3630,3700,3750,3800MHz



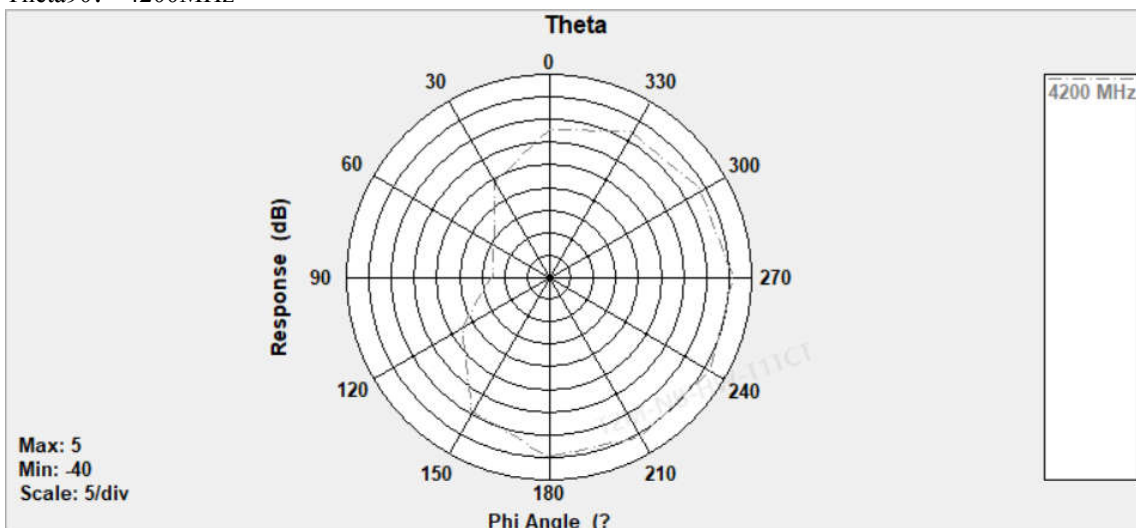
Phi0: 4200MHz



Phi90: 4200MHz



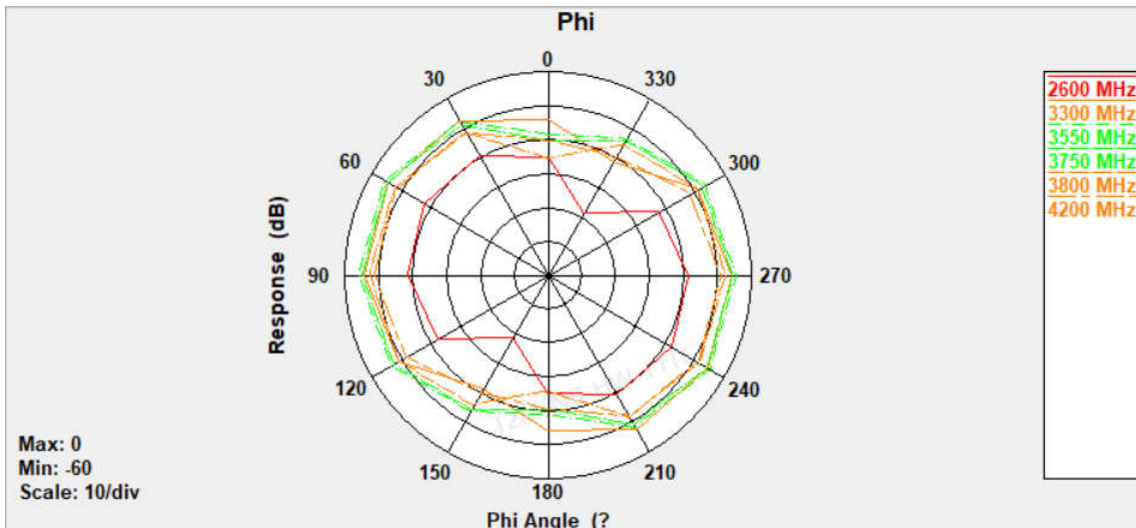
Theta90: 4200MHz



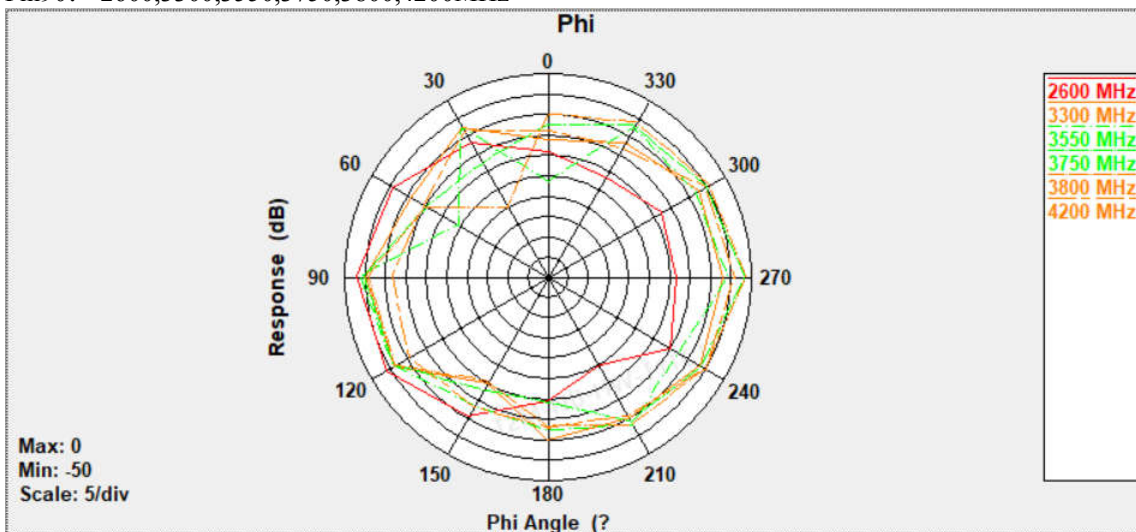
ANT4:

Phi0: 2600,3300,3550,3750,3800,4200MHz

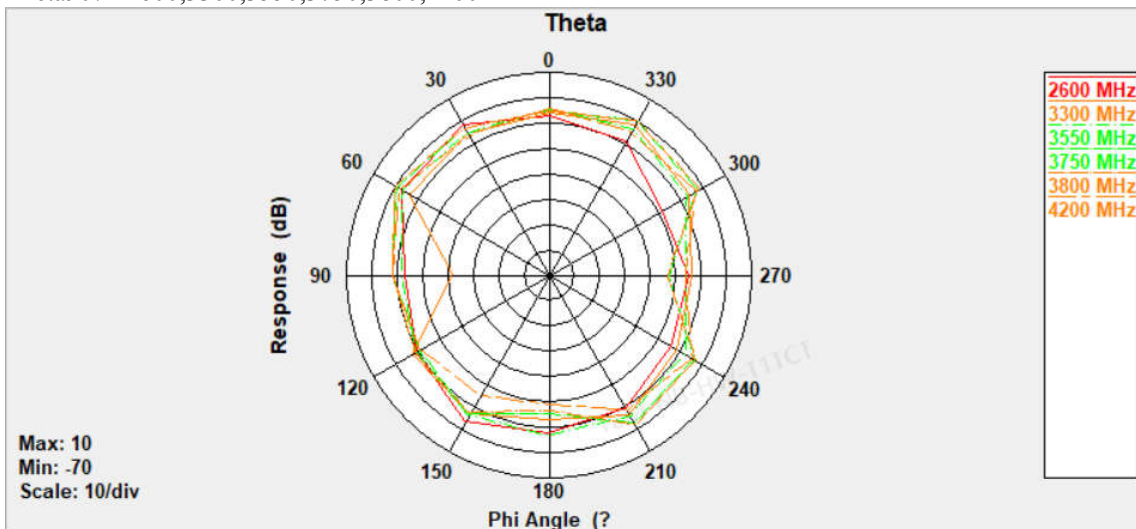




Phi90: 2600,3300,3550,3750,3800,4200MHz

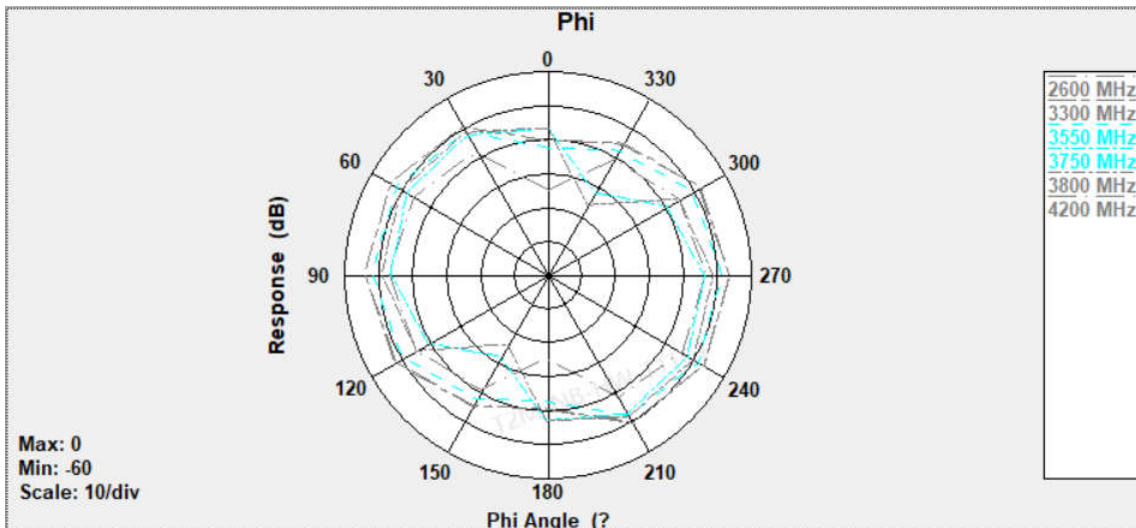


Theta90: 2600,3300,3550,3750,3800,4200MHz

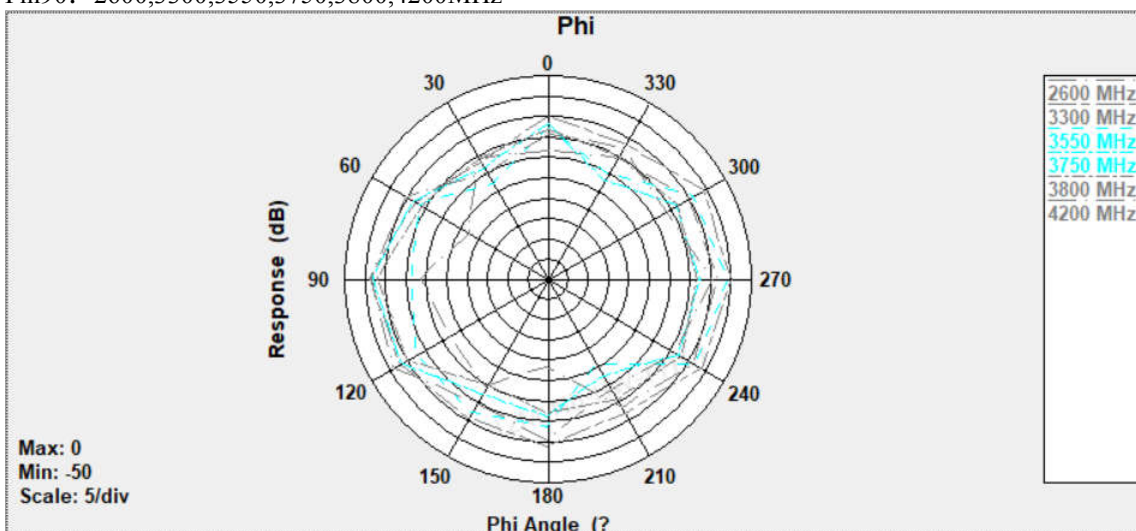


ANT5:

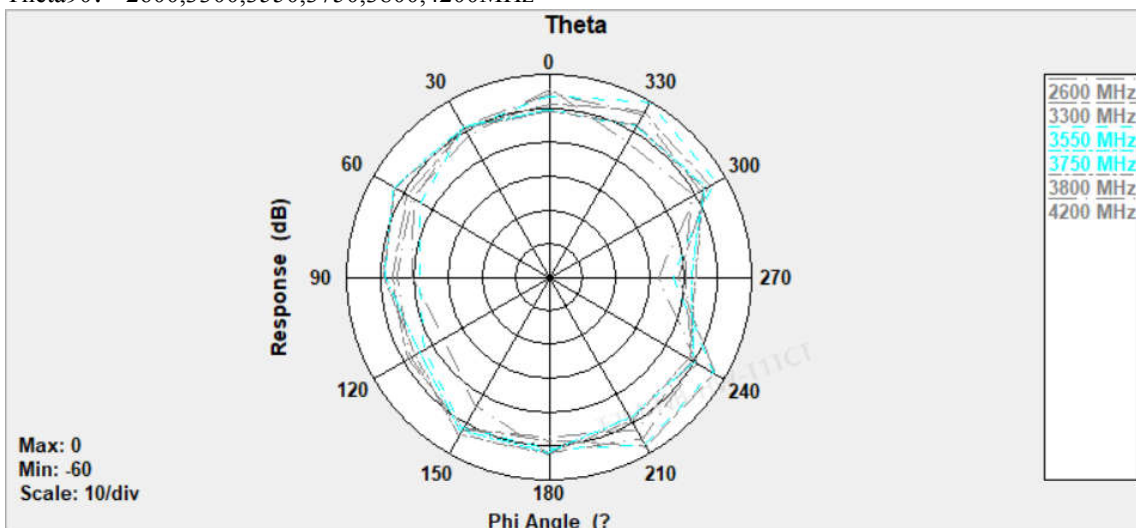
Phi0: 2600,3300,3550,3750,3800,4200MHz



Phi90: 2600,3300,3550,3750,3800,4200MHz

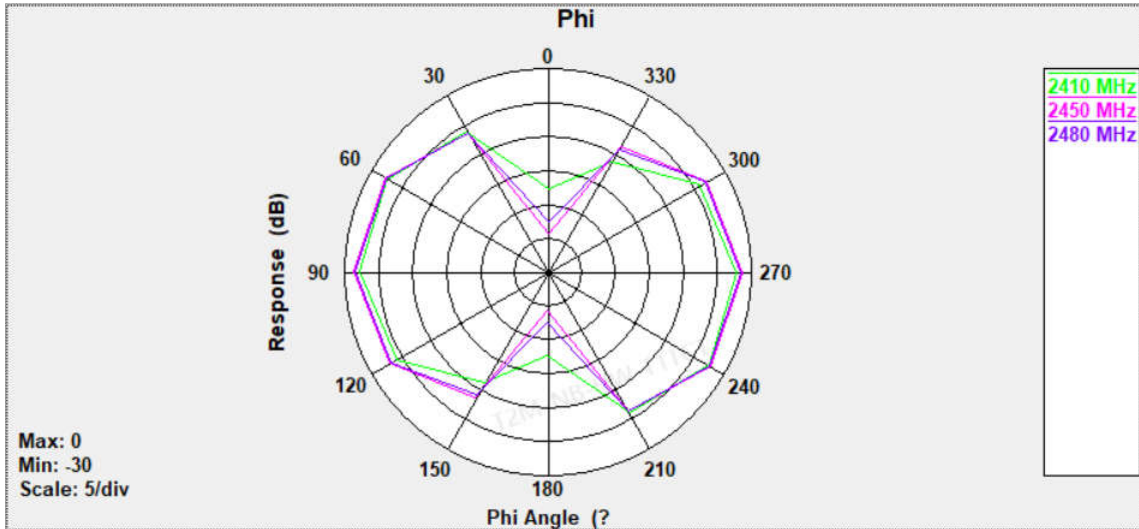


Theta90: 2600,3300,3550,3750,3800,4200MHz

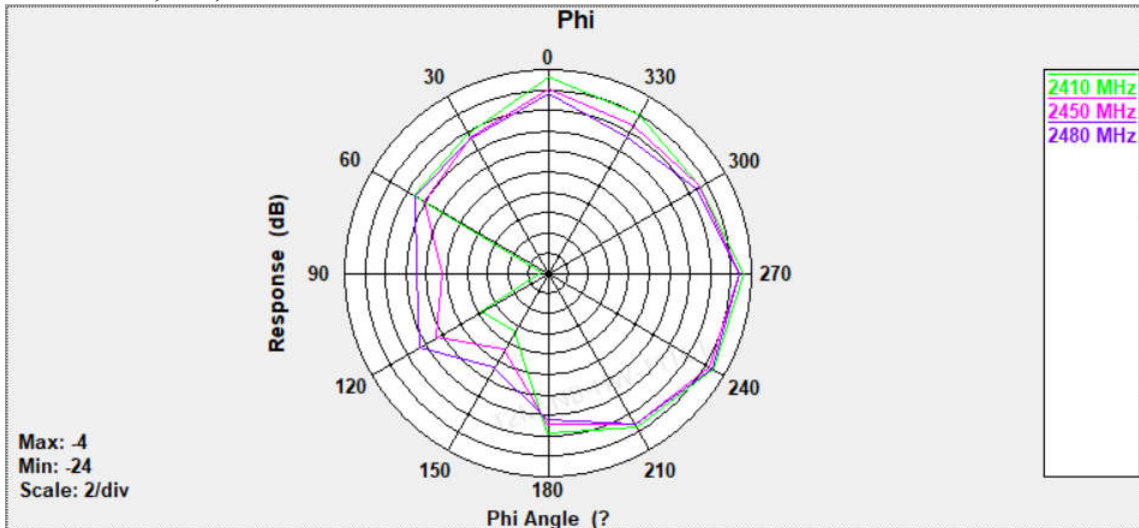


# ANT6:

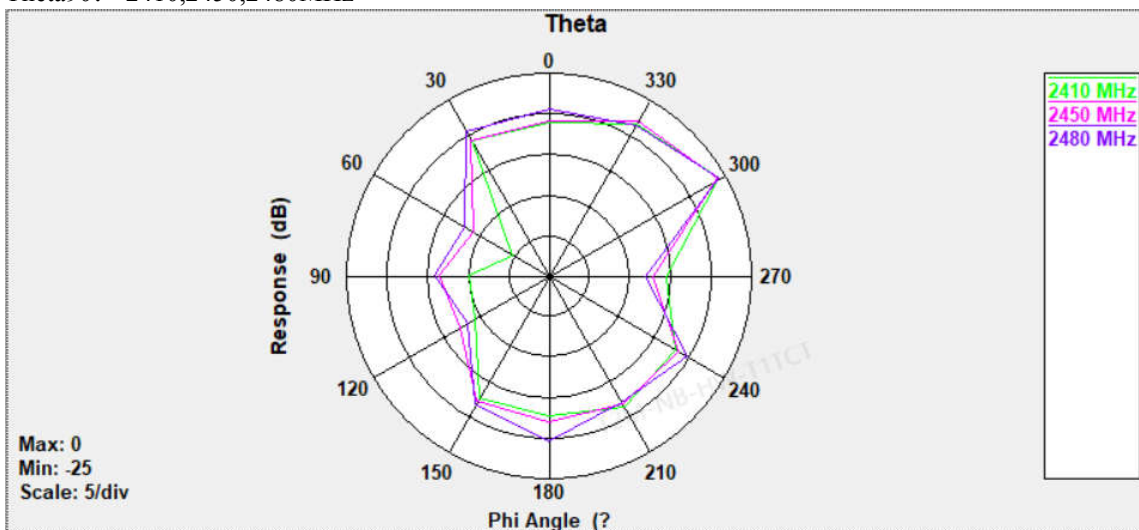
Phi0: 2410,2450,2480MHz



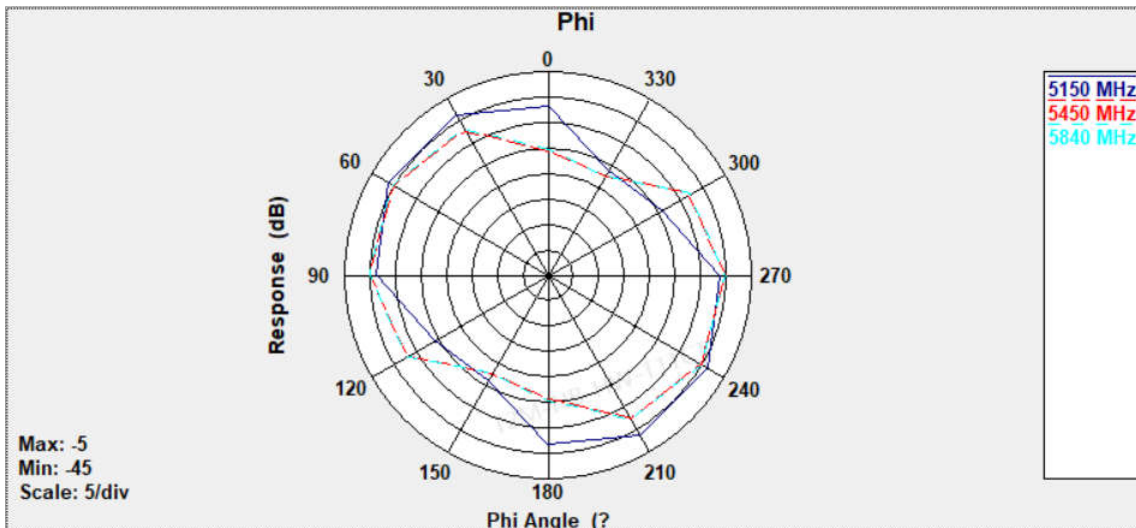
Phi90: 2410,2450,2480MHz



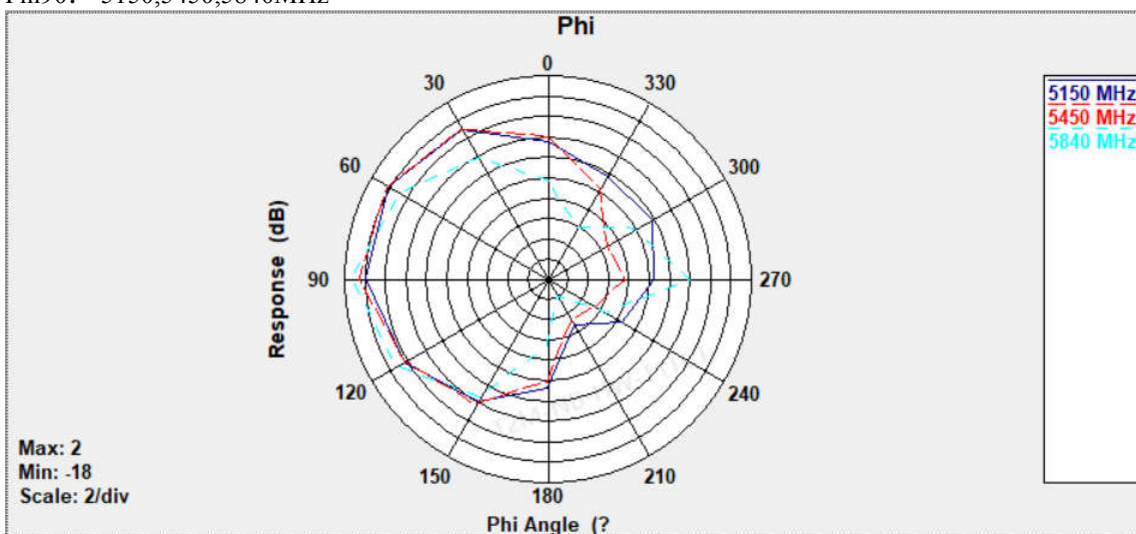
Theta90: 2410,2450,2480MHz



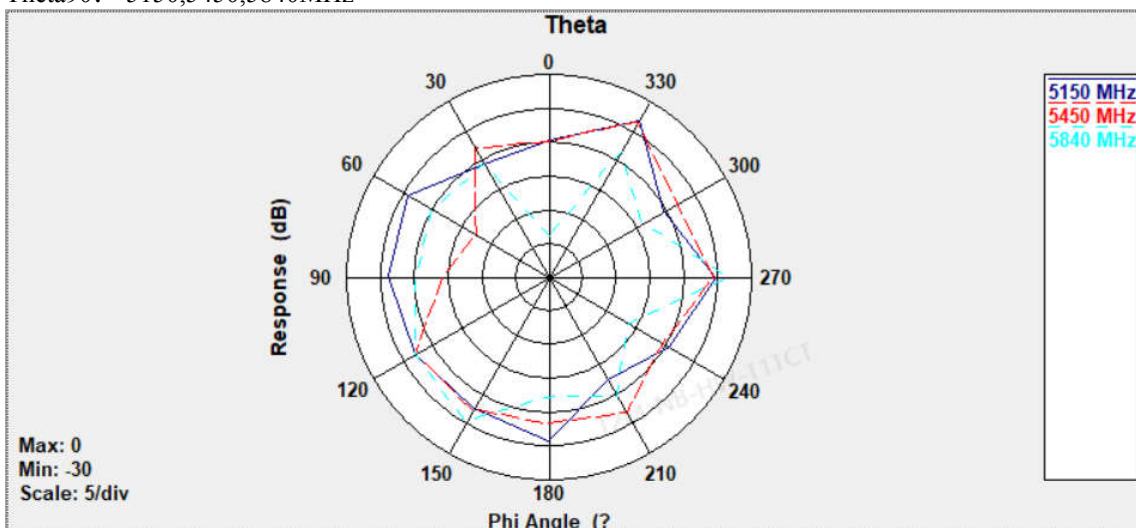
Phi0: 5150,5450,5840MHz



Phi90: 5150,5450,5840MHz

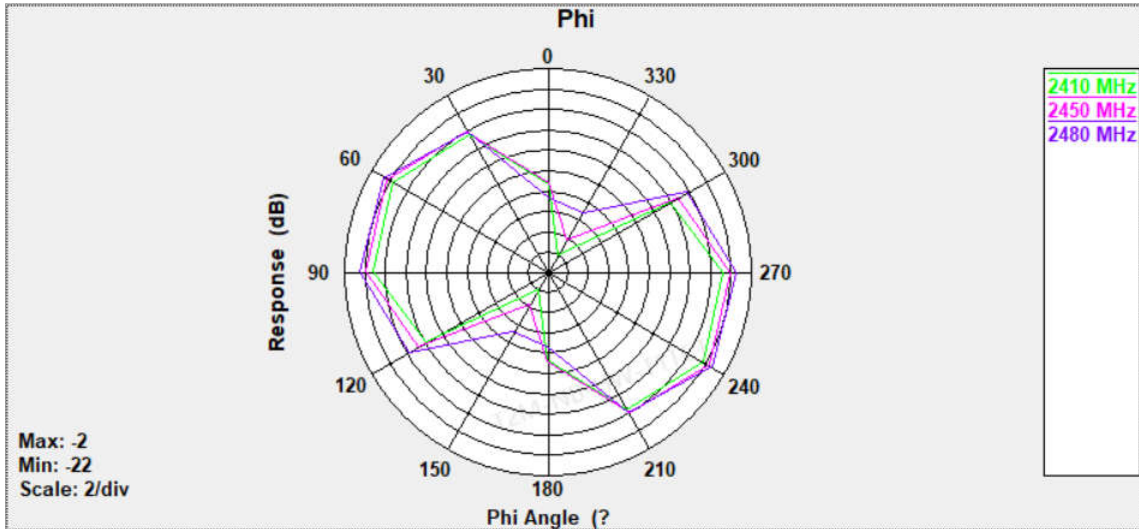


Theta90: 5150,5450,5840MHz

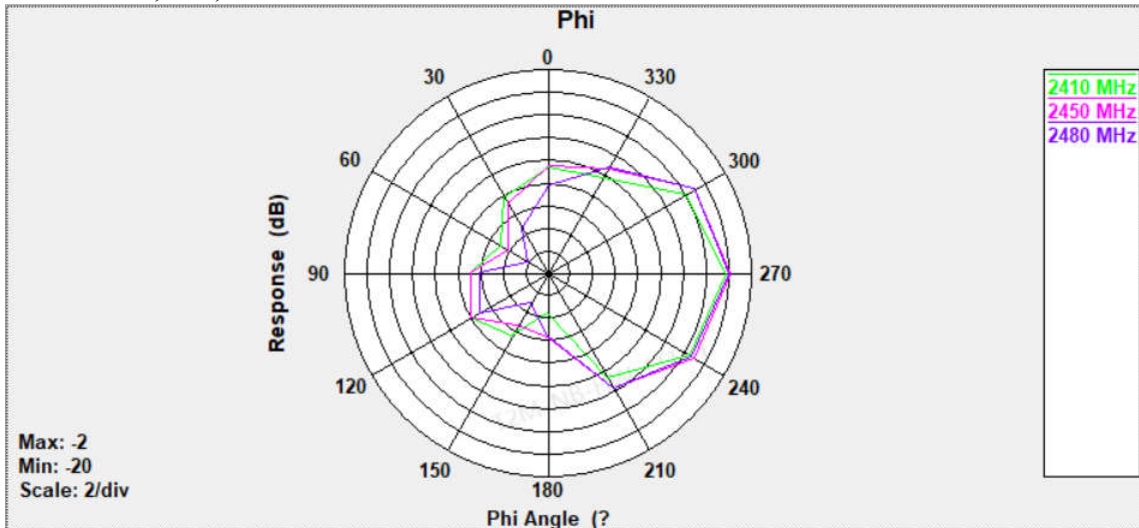


# ANT7:

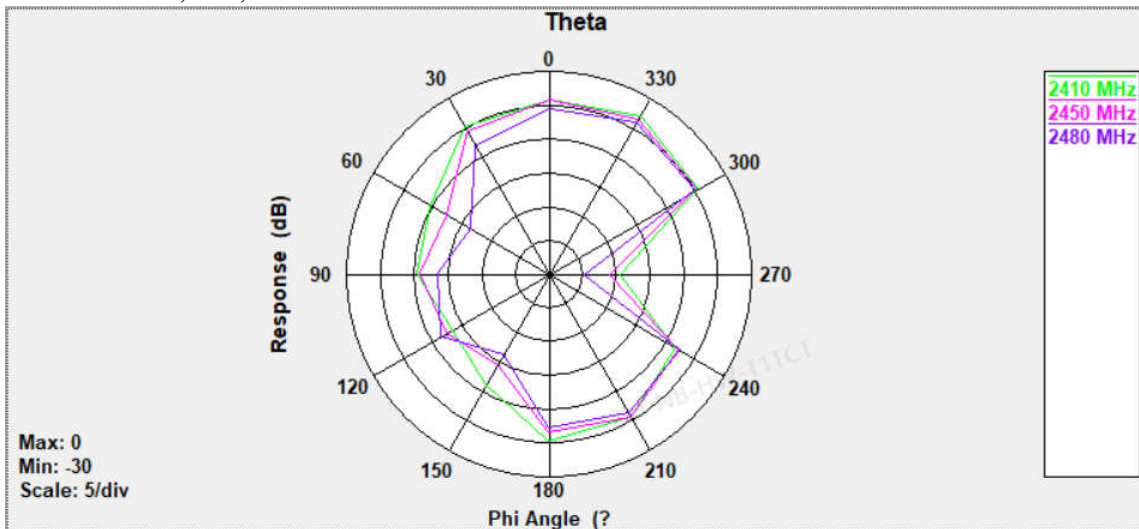
Phi0: 2410,2450,2480MHz



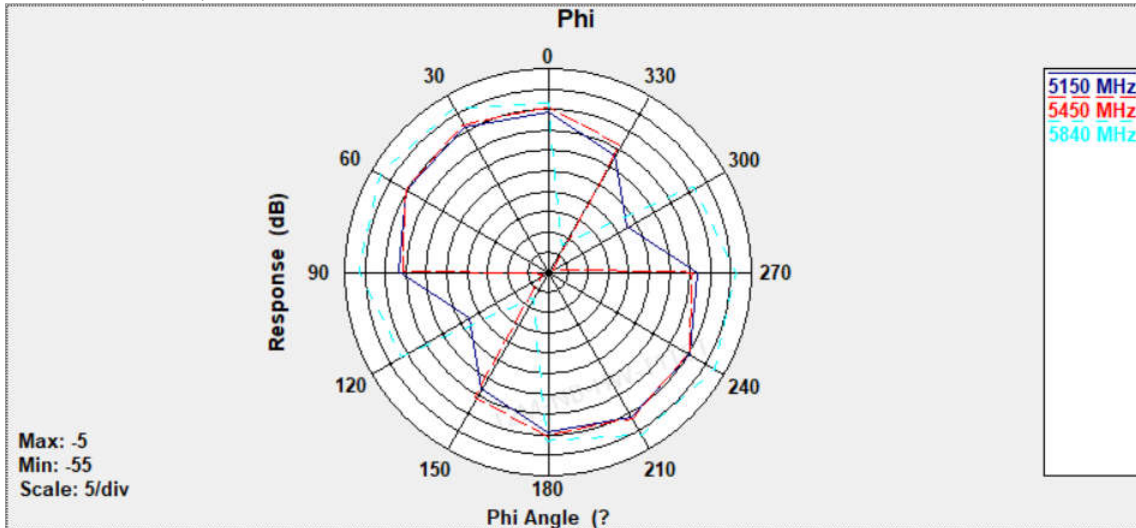
Phi90: 2410,2450,2480MHz



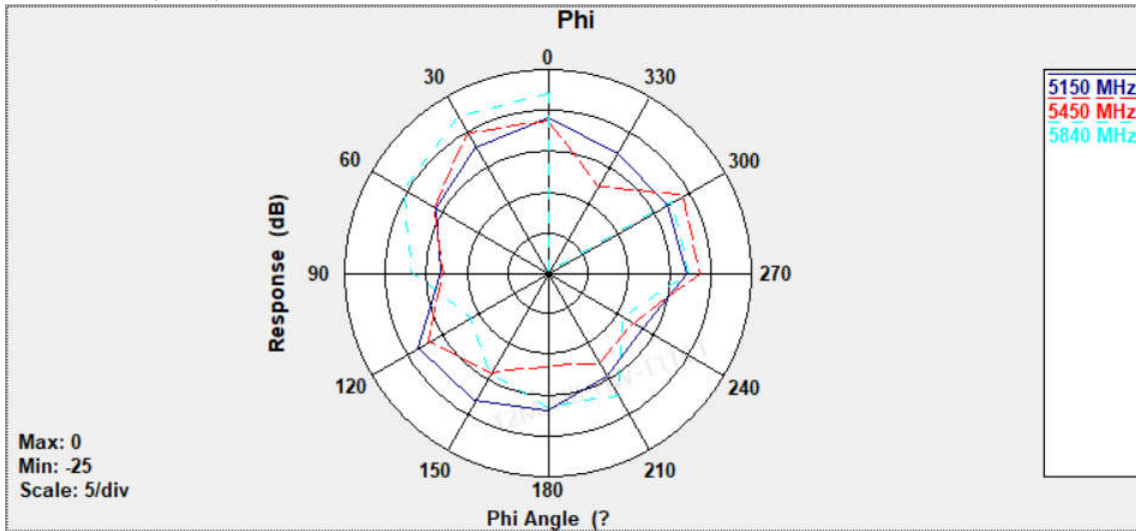
Theta90: 2410,2450,2480MHz



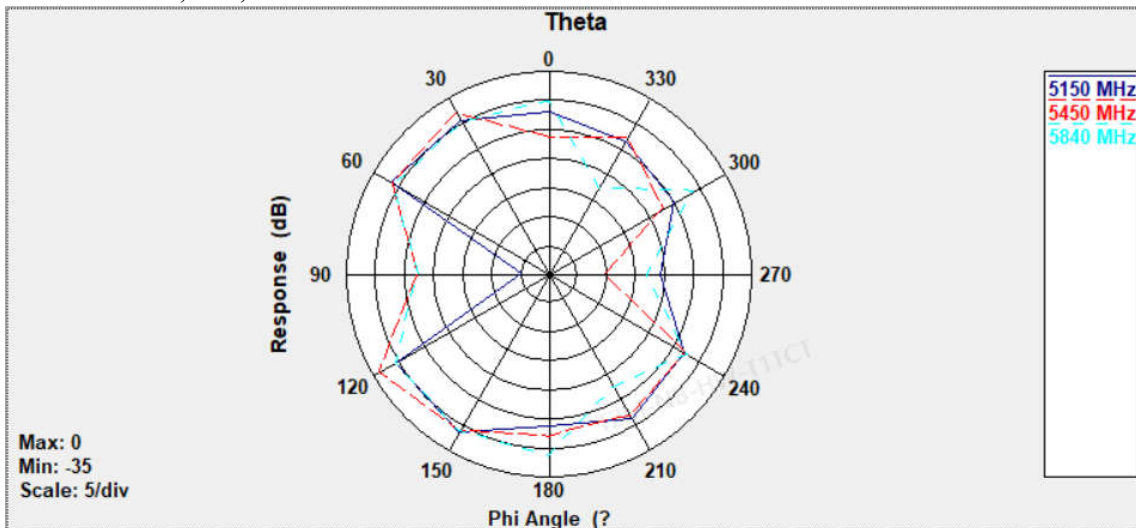
Phi0: 5150,5450,5840MHz



Phi90: 5150,5450,5840MHz



Theta90: 5150,5450,5840MHz



Instrument	Manufacturer	Model.NO	Calibration date	Test Date	Due Date
Base station	Anritsu	MT8820C	2022.03	2022.05	2023.03
Base station	Keysight	UXM E7515E	2022.01	2022.05	2023.01
Base station	R&S	CMW500	2022.02	2022.05	2023.02

**NFC Antenna**

**Antenna Dimensions: 8 in Enlarged Area : 2400 mm<sup>2</sup>**

