

GALTRONICS

WHEN CONNECTIONS COUNT



CIG WF-825 Wi-Fi Antenna Performance Report

Galtronics Project: 8048

Prepared by Alissa Guo

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Introduction

- » Galtronics developed an antenna solution for CIG WF-825
- » There are 8 antennas :
 - Four Cabled PCB WIFI Dual Band antenna :- DB0,DB1,DB2 and DB3.
 - Four Cabled PCB WIFI 6GHz Band antenna :- 6G0,6G1,6G2 and 6G3.
- » The operating frequency of the Dual Band Antennas is 2.4 GHz-2.5 GHz and 5.15GHz-5.85GHz.
- » The operating frequency of the 6GHz Antennas is 5.925 GHz-7.125 GHz.
- » Measured return loss, isolation, peak gain, efficiency, composite gain and gain patterns of the antennas

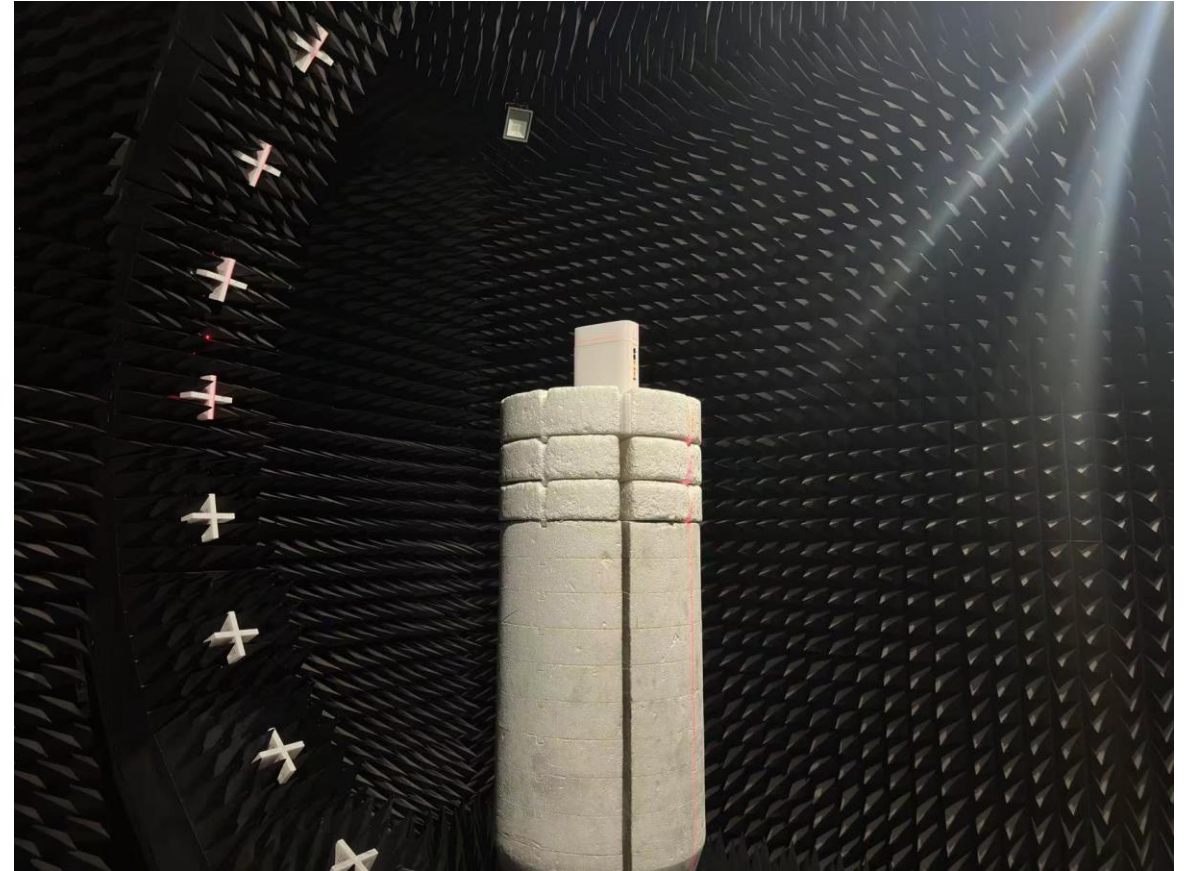
TEST INFORMATION

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date
ENA Network Analyzer	KEYSIGHT	E5071C	MY46730234	1 Year	2025/2/28
RF Switch Box	HWA-TECH	Z9916A-NO1	N/A	N/A	N/A
SP24 Chamber	HWA-TECH	555	N/A	1 Year	2024/12/1
Horn Antenna	HWA-TECH	TN3112	N/A	1 Year	2024/12/1

TEST CONFIGURATION



Test instrument



Chamber

Test Method

The “great circle” cut method, whereby the Measurement Antenna remains fixed and the EUT is rotated about two axes in sequential order. The radiated RF performance of the Equipment Under Test (EUT) is measured by sampling the radiated transmit power of the mobile at various locations surrounding the device. A three-dimensional characterization of the 'transmit' performance of the EUT is pieced together by analyzing the data from the spatially distributed measurements.

Data points taken every 3 degrees in the theta and in the phi axes are deemed sufficient to fully characterize the EUT's Far-Field radiation pattern and total radiated power All of the measured power values will be integrated.

Test Condition	Test Engineer	Test Environment (°C / %)	Test Date
Radiated	Zack. You	20-24 / 45-60	1.03.2024~1.05.2024
Band (MHz)		Test Frequency (MHz)	
2400-2484		2400 / 2450 / 2484	
5170-5835		5170 / 5350/5550/5750/5835	
5925-7125		5925/6300/6500/6800/7125	
Testing Location			
Galtronics	Suzhou, China Design Center Galtronics Electronics (Wuxi) Co.		

Because the antennas are fixed in location within the device the directional antenna gain for MIMO is calculated over a sphere using the raw spatial data taken at 3 degree steps of theta and phi for each antenna using the equations from KDB 662911 D01.

The correlated antenna gain was calculated using KDB 662911 D01, F(2)(d)(i). The uncorrelated antenna gain was calculated using KDB 662911 D01, F(2)(d)(ii).

The uncorrelated and correlated gains were calculated for each point in the spatial data, and the highest values reported.

Note :

KDB 662911 D01, F(2)(d)(i)

$$\text{Correlated Gain} = 10 \log \left[\left(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}} + \dots + 10^{\frac{G_n}{20}} \right)^2 / N_{Ant.} \right] \text{ dBi}$$

KDB 662911 D01, F(2)(d)(ii)

$$\text{Uncorrelated Gain} = 10 \log \left[\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_n}{10}} \right) / N_{Ant.} \right] \text{ dBi}$$

$N_{Ant.}$: Number of antenna

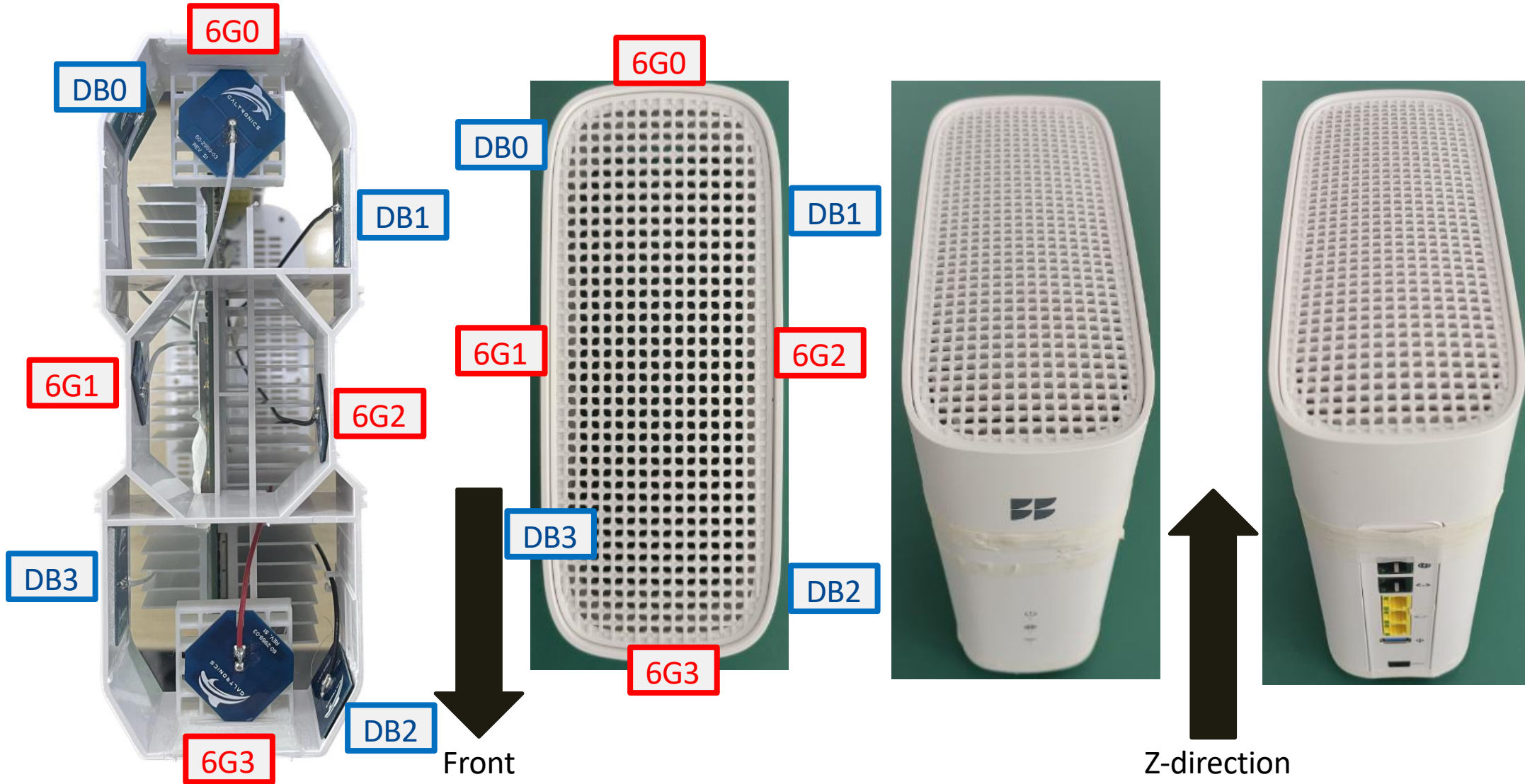
G_n : Gain of antenna

ANTENNA

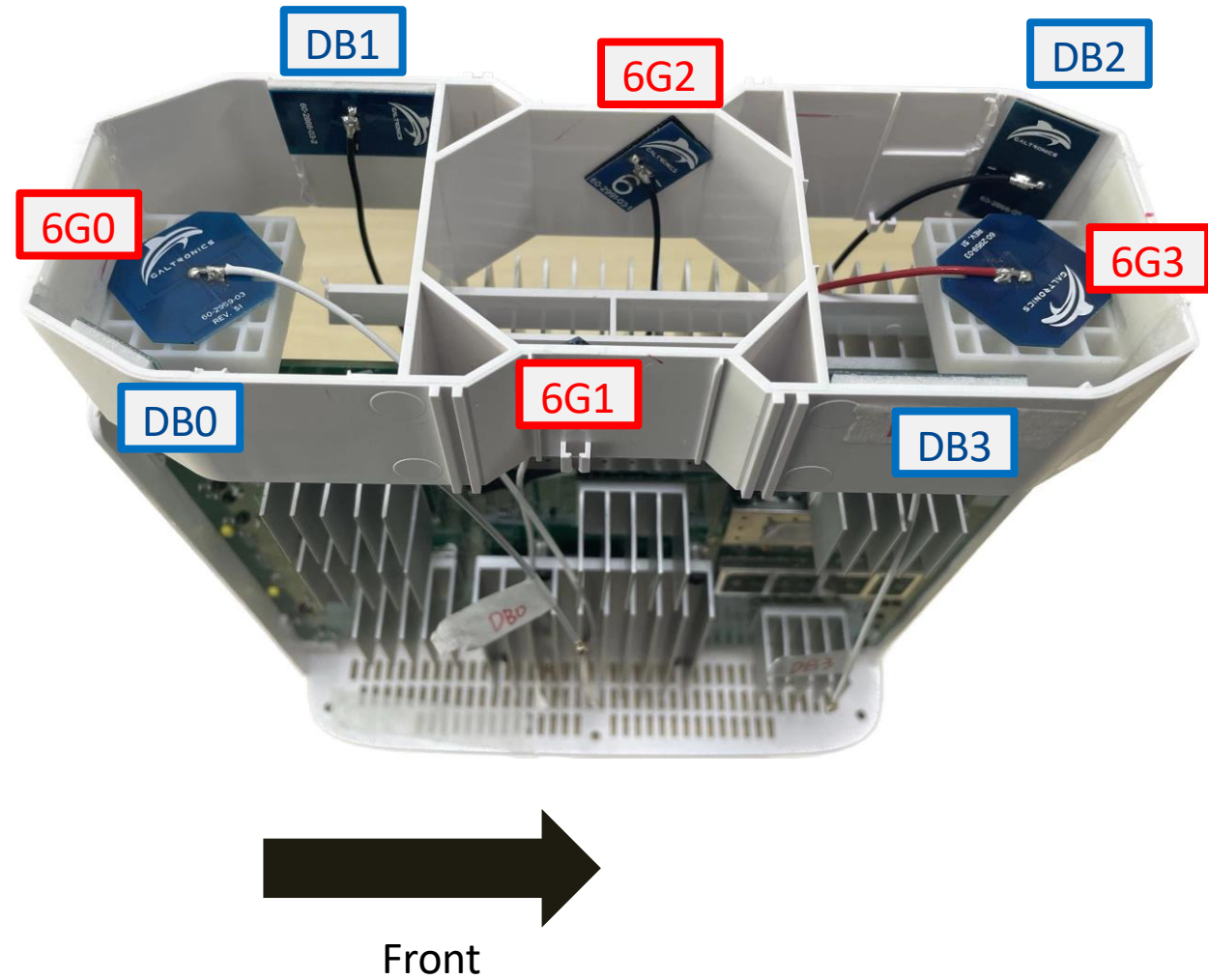
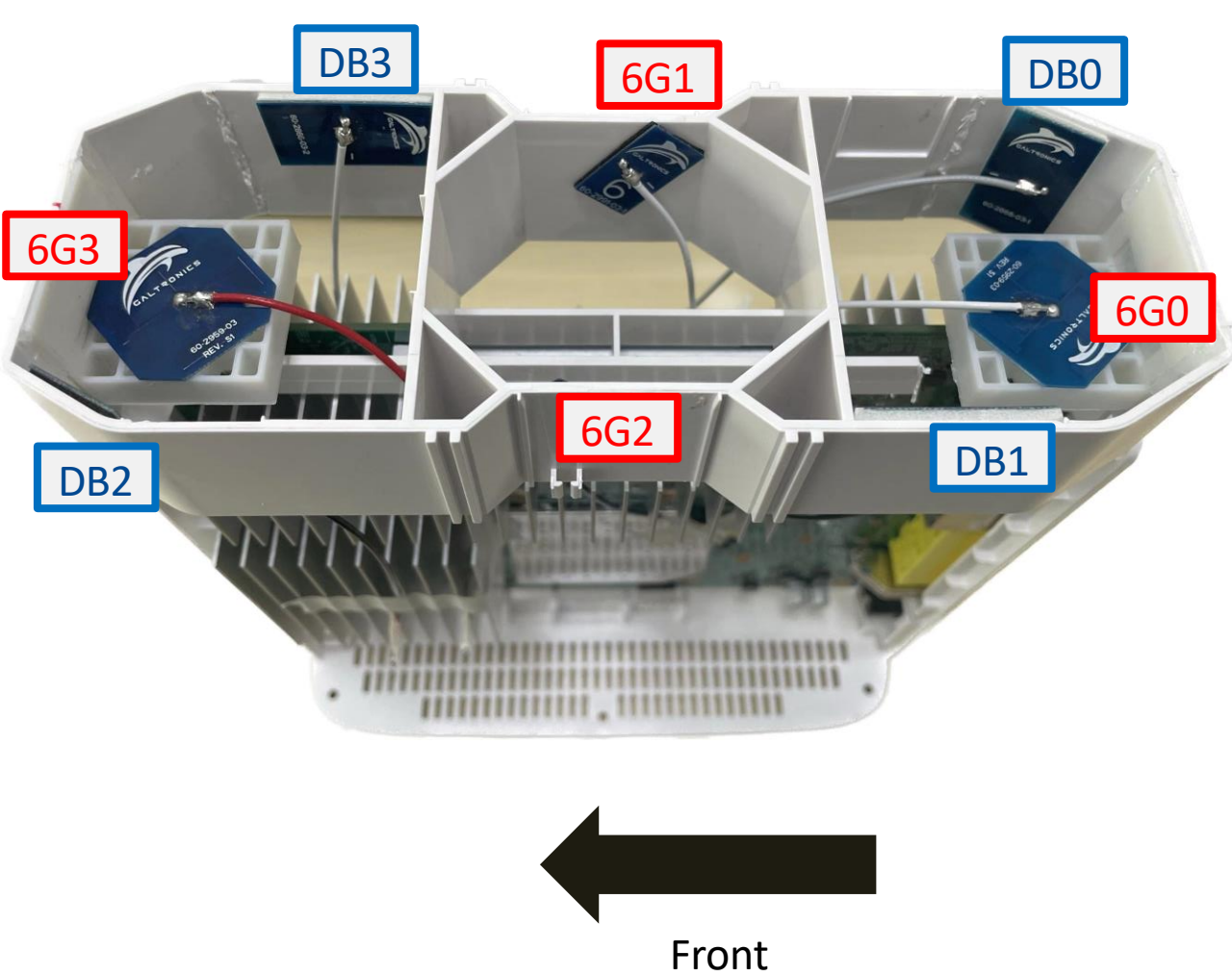
Antenna	Assy Number	Part Number	Manufacturer
天线	组件编号	零件编号	制造商
DB0	02102140-08048-1	60-2866-03-1	Galtronics
DB1	02102140-08048-2	60-2866-03-2	Galtronics
DB2	02102140-08048-3	60-2866-03-1	Galtronics
DB3	02102140-08048-4	60-2866-03-2	Galtronics
6G0	02102475-08048-1	60-7124-03	Galtronics
6G1	02102475-08048-2	60-2991-03-1	Galtronics
6G2	02102475-08048-3	60-2991-03-1	Galtronics
6G3	02102475-08048-4	60-7124-03	Galtronics

Galtronics Factory:Galtronics Electronics (Wuxi) Co. No. 1, Xishi Road, Wuxi New District Jiangsu Province 214028, China

Antenna Location



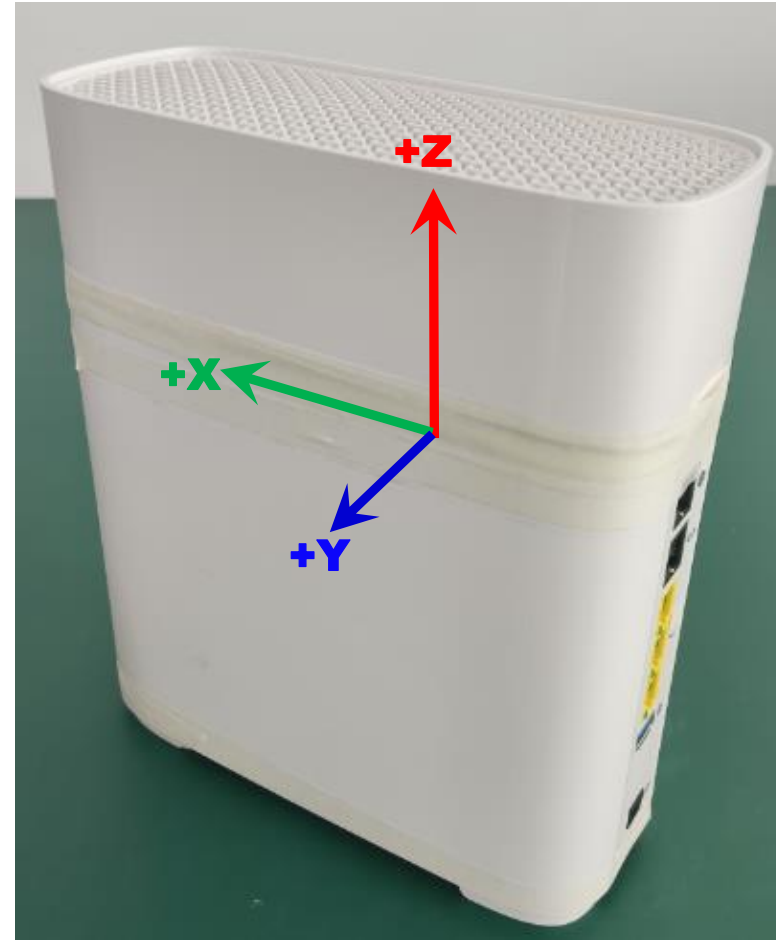
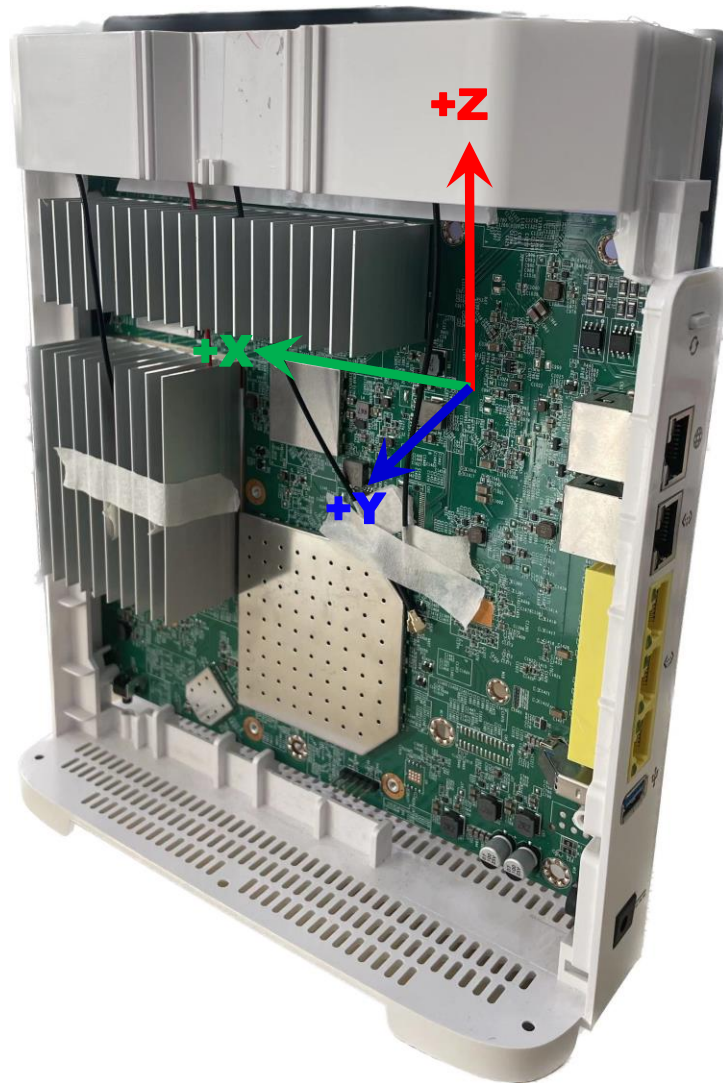
Antenna Location



Antenna with an enclosure



Chamber Coordinates



Cable Lengths and Orientation

Antenna	Antenna Orientation	Total Cable Length
DB0	V	150mm
DB1	H	150mm
DB2	V	150mm
DB3	H	150mm
6G0	H-POL	180mm
6G1	45°	150mm
6G2	45°	150mm
6G3	H-POL	180mm

V = vertical
H = horizontal

Cable lengths and colors will be updated
based on cable routing

Performance Summary

Antenna	Worst Return loss (dB)	Average Efficiency (%)	Highest Peak Gain (dB)	Mutual Isolation (dB) 2.45 GHz Band				Mutual Isolation (dB) 5 GHz Band				Mutual Isolation (dB) 6 GHz Band			
				DB0	DB1	DB2	DB3	DB0	DB1	DB2	DB3	6G0	6G1	6G2	6G3
DB0_2G	-13.5	66.51	3.33												
DB1_2G	-16.9	64.71	4.73	-23.5											
DB2_2G	-12.0	69.03	3.12	-26.0	-26.4										
DB3_2G	-11.6	64.13	4.24	-28.1	-25.4	-24.3									
DB0_5G	-13.0	72.26	4.73									-27.1	-31.8	-29.4	-32.3
DB1_5G	-13.2	72.78	4.87					-34.7				-29.8	-26.5	-27.2	-41.5
DB2_5G	-10.6	73.48	4.56					-32.3	-28.9			-40.2	-39.6	-37.5	-29.8
DB3_5G	-15.7	75.22	4.19					-27.1	-33.1	-31.7		-39.8	-28.8	-26.2	-26.9
6G0	-9.5	66.46	4.50	-40.2	-32.9	-46.0	-46.2	-30.1	-25.2	-39.9	-36.4				
6G1	-16.0	72.07	4.88	-33.2	-31.0	-46.5	-26.4	-29.0	-25.5	-34.3	-25.2	-27.3			
6G2	-18.4	72.39	4.91	-41.3	-30.8	-32.5	-33.5	-34.5	-25.7	-30.4	-25.4	-36.8	-27.1		
6G3	-9.7	65.35	4.70	-47.0	-47.8	-42.4	-36.0	-33.1	-35.7	-30.5	-25.5	-33.9	-36.7	-30.0	

DB Antennas Peak Gain and Efficiency

DB0	Freq(MHz)	Peak Gain(dBi)	Directivity(dBi)	Efficiency(%)
	2400	3.48	5.28	66.15
	2450	3.72	5.40	67.97
	2484	3.64	5.16	70.52
Average				68.21

DB1	Freq(MHz)	Peak Gain(dBi)	Directivity(dBi)	Efficiency(%)
	2400	3.25	4.81	69.73
	2450	3.73	5.17	71.71
	2484	3.51	5.16	68.35
Average				69.93

DB2	Freq(MHz)	Peak Gain(dBi)	Directivity(dBi)	Efficiency(%)
	2400	3.66	5.29	68.68
	2450	3.79	5.38	69.33
	2484	3.72	5.54	65.82
Average				67.94

DB3	Freq(MHz)	Peak Gain(dBi)	Directivity(dBi)	Efficiency(%)
	2400	3.52	5.14	68.91
	2450	3.59	5.10	70.65
	2484	3.38	5.05	68.10
Average				69.22

DB Antennas Peak Gain and Efficiency

DB0	Freq(MHz)	Peak Gain(dBi)	Directivity(dBi)	Efficiency(%)
	5170	4.13	5.62	71.04
	5350	4.22	5.80	69.55
	5550	4.40	6.02	68.83
	5750	4.39	5.86	71.29
	5835	4.19	5.58	72.59
	Average			70.66

DB1	Freq(MHz)	Peak Gain(dBi)	Directivity(dBi)	Efficiency(%)
	5170	4.56	5.94	72.82
	5350	4.78	6.06	74.47
	5550	4.72	6.10	72.81
	5750	4.52	6.13	69.06
	5835	4.82	6.68	65.19
	Average			70.87

DB2	Freq(MHz)	Peak Gain(dBi)	Directivity(dBi)	Efficiency(%)
	5170	4.11	5.67	69.76
	5350	4.57	6.22	68.32
	5550	4.42	5.95	70.23
	5750	4.55	6.23	67.93
	5835	4.42	6.03	69.03
	Average			69.05

DB3	Freq(MHz)	Peak Gain(dBi)	Directivity(dBi)	Efficiency(%)
	5170	3.84	5.54	67.67
	5350	3.86	5.58	67.38
	5550	4.15	5.41	74.78
	5750	4.04	5.50	71.45
	5835	4.34	5.76	72.09
	Average			70.67

6 GHz Antenna Peak Gain and Efficiency

6G0	Freq(MHz)	Peak Gain(dBi)	Directivity(dBi)	Efficiency(%)
	5925	4.50	6.42	64.25
	6300	4.11	5.87	66.65
	6500	4.15	6.00	65.31
	6800	4.05	5.69	68.51
	7125	3.83	5.53	67.57
Average			66.46	

6G1	Freq(MHz)	Peak Gain(dBi)	Directivity(dBi)	Efficiency(%)
	5925	4.61	6.19	69.58
	6300	4.39	5.73	73.39
	6500	4.60	5.92	73.70
	6800	4.70	6.07	72.87
	7125	4.88	6.37	70.82
Average			72.07	

6G2	Freq(MHz)	Peak Gain(dBi)	Directivity(dBi)	Efficiency(%)
	5925	4.42	5.68	74.76
	6300	4.70	6.14	71.75
	6500	4.60	6.10	70.78
	6800	4.91	6.30	72.63
	7125	4.48	5.90	72.05
Average			72.39	

6G3	Freq(MHz)	Peak Gain(dBi)	Directivity(dBi)	Efficiency(%)
	5925	4.30	6.03	67.17
	6300	4.67	6.53	65.11
	6500	4.04	5.99	63.85
	6800	4.13	6.01	64.91
	7125	4.70	6.52	65.73
Average			65.35	

DB 2.45 GHz Horizontal and Vertical Correlated directional Gain

Frequeccy(MHz)	Degree		Gain(dBi)				Correlated Gain(dBi)-H Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
2400	165	324	-5.84	-0.60	-0.83	-9.11	2.62
2450	165	327	-5.66	-0.15	-1.64	-10.22	2.41
2484	165	330	-5.74	0.10	-2.65	-10.47	2.16

Frequeccy(MHz)	Degree		Gain(dBi)				Correlated Gain(dBi)-V Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
2400	105	45	-0.17	-1.13	-5.97	2.04	5.17
2450	105	51	0.85	-0.51	-6.82	1.99	5.48
2484	105	51	1.20	-0.65	-8.20	2.26	5.49

DB 2.45 GHz Horizontal and Vertical Uncorrelated directional Gain

Frequeccy(MHz)	Degree		Gain(dBi)				UnCorrelated Gain(dBi)-H Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
2400	60	270	-8.61	-12.69	3.57	-15.97	-2.06
2450	60	270	-9.02	-11.71	3.69	-15.24	-1.93
2484	135	357	-4.25	3.31	-18.78	-14.39	-1.92

Frequeccy(MHz)	Degree		Gain(dBi)				UnCorrelated Gain(dBi)-V Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
2400	105	120	-3.83	0.57	-8.72	3.52	-0.07
2450	75	270	2.96	-15.33	-21.26	3.14	0.08
2484	75	267	3.21	-18.10	-21.15	3.23	0.23

5 GHz Horizontal and Vertical Correlated directional Gain

Frequeccy(MHz)	Degree		Gain(dBi)				Correlated Gain(dBi)-H Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
5170	90	210	-8.24	2.61	-1.05	-3.72	4.29
5350	90	210	-10.39	2.47	-2.22	-3.60	3.71
5550	90	210	-10.49	2.54	-3.75	-1.90	3.78
5750	90	210	-8.70	2.18	-4.90	-1.83	3.62
5835	90	210	-8.53	1.83	-3.74	-1.03	3.94

Frequeccy(MHz)	Degree		Gain(dBi)				Correlated Gain(dBi)-V Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
5170	111	30	0.04	1.16	-4.12	3.31	6.51
5350	105	60	3.32	0.06	-4.42	2.07	6.74
5550	90	75	3.78	-1.18	-9.77	3.54	6.54
5750	90	75	2.46	-0.56	-7.92	3.85	6.49
5835	117	33	-0.32	2.30	-3.93	1.44	6.20

5 GHz Horizontal and Vertical Uncorrelated directional Gain

Frequeccy(MHz)	Degree		Gain(dBi)				UnCorrelated Gain(dBi)-H Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
5170	135	351	-0.87	3.35	-15.57	-3.45	-0.63
5350	105	345	-8.12	4.50	-7.83	-7.01	-0.79
5550	105	351	-9.37	4.40	-9.98	-9.93	-1.14
5750	45	270	-8.67	-22.76	4.52	-8.80	-1.10
5835	105	345	-12.68	4.63	-8.87	-10.10	-0.99

Frequeccy(MHz)	Degree		Gain(dBi)				UnCorrelated Gain(dBi)-V Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
5170	108	33	0.72	1.32	-5.54	3.23	0.90
5350	90	75	3.64	-1.18	-8.41	3.74	1.45
5550	90	75	3.78	-1.18	-9.77	3.54	1.39
5750	90	75	2.46	-0.56	-7.92	3.85	1.16
5835	105	45	2.58	2.29	-7.60	-0.17	0.64

6 GHz Horizontal and Vertical Correlated directional Gain

Frequency (MHz)	Degree		Gain (dBi)				Correlated Gain (dBi) - H-Pol
	Theta	Phi	6G0	6G1	6G2	6G3	
5925	105	90	-1.15	-2.75	1.78	4.06	6.90
6300	102	102	0.35	-3.56	0.95	3.50	6.68
6500	102	105	2.54	-4.02	0.83	1.62	6.60
6800	105	267	2.95	-2.90	-4.35	3.19	6.38
7125	105	270	2.00	0.47	-4.10	2.73	6.66

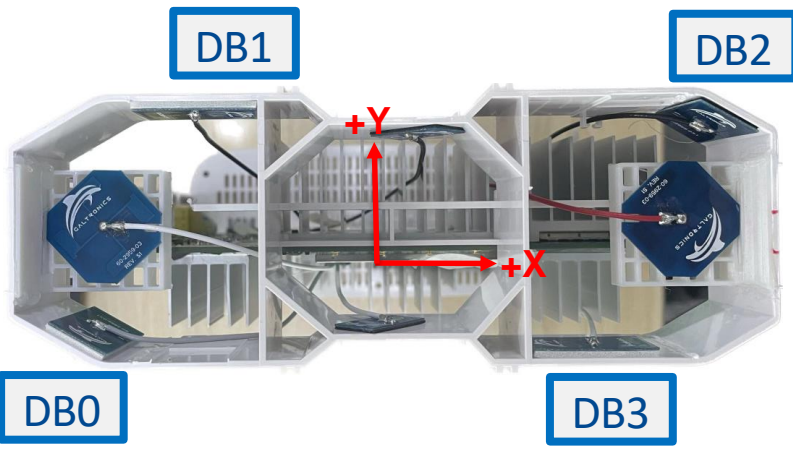
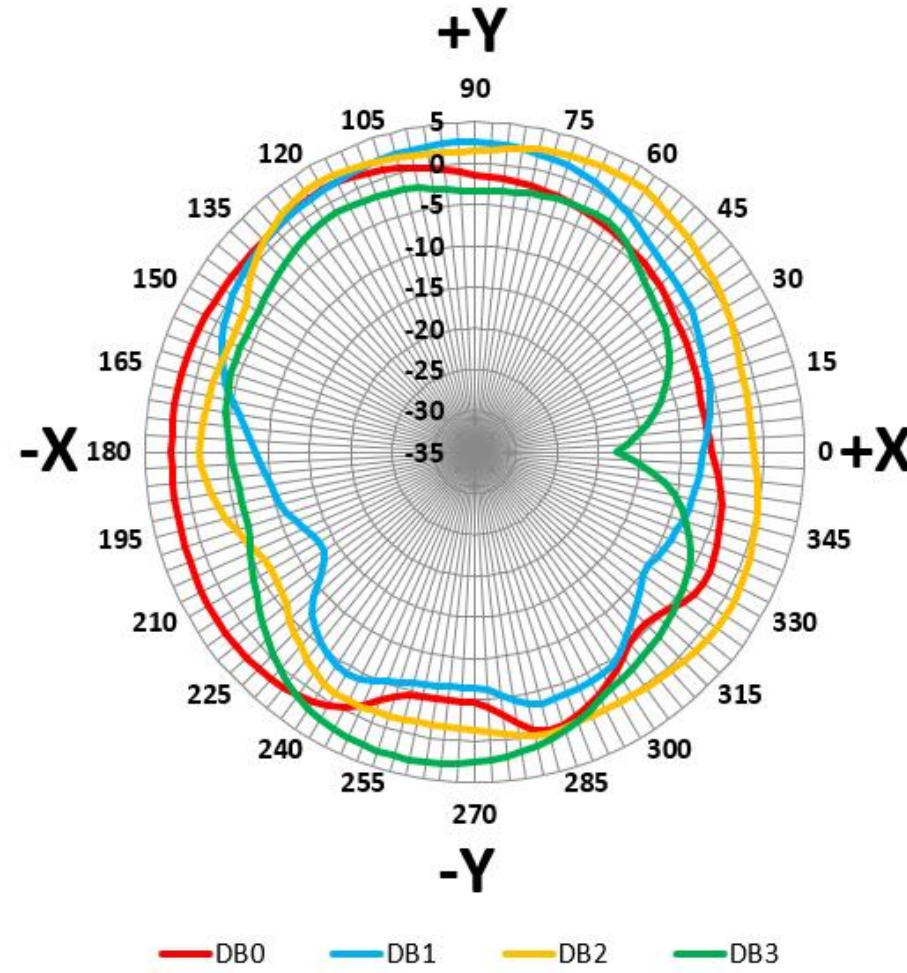
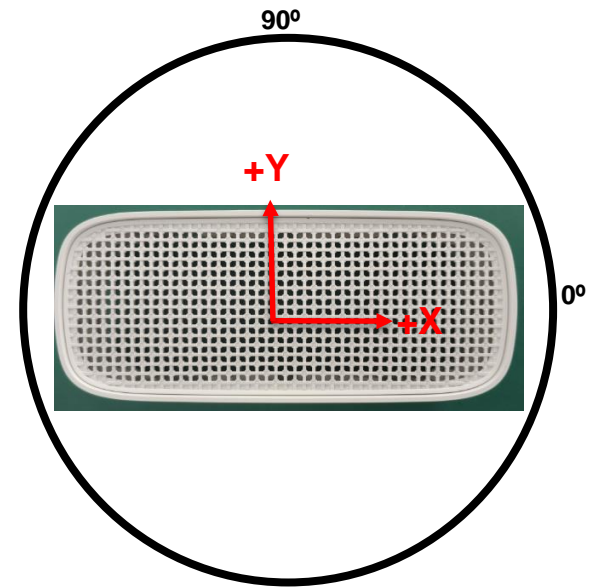
Frequency (MHz)	Degree		Gain (dBi)				Correlated Gain (dBi)-V-Pol
	Theta	Phi	6G0	6G1	6G2	6G3	
5925	135	6	-7.71	3.93	-4.19	-9.88	3.29
6300	90	60	-12.54	-1.53	1.61	-4.42	3.17
6500	90	60	-9.98	0.47	0.14	-9.32	2.71
6800	105	183	-8.46	-0.50	-0.39	-6.68	2.74
7125	90	315	-9.97	1.20	-6.42	-4.31	2.12

6 GHz Horizontal and Vertical Uncorrelated directional Gain

Frequency (MHz)	Degree		Gain (dBi)				UnCorrelated Gain (dBi) - H-Pol
	Theta	Phi	6G0	6G1	6G2	6G3	
5925	105	90	-1.15	-2.75	1.78	4.06	1.27
6300	102	90	-0.02	-5.87	1.67	3.95	1.14
6500	105	258	2.91	-4.03	-3.14	3.75	1.15
6800	105	264	2.94	-3.46	-4.68	3.41	0.93
7125	105	270	2.00	0.47	-4.10	2.73	0.94

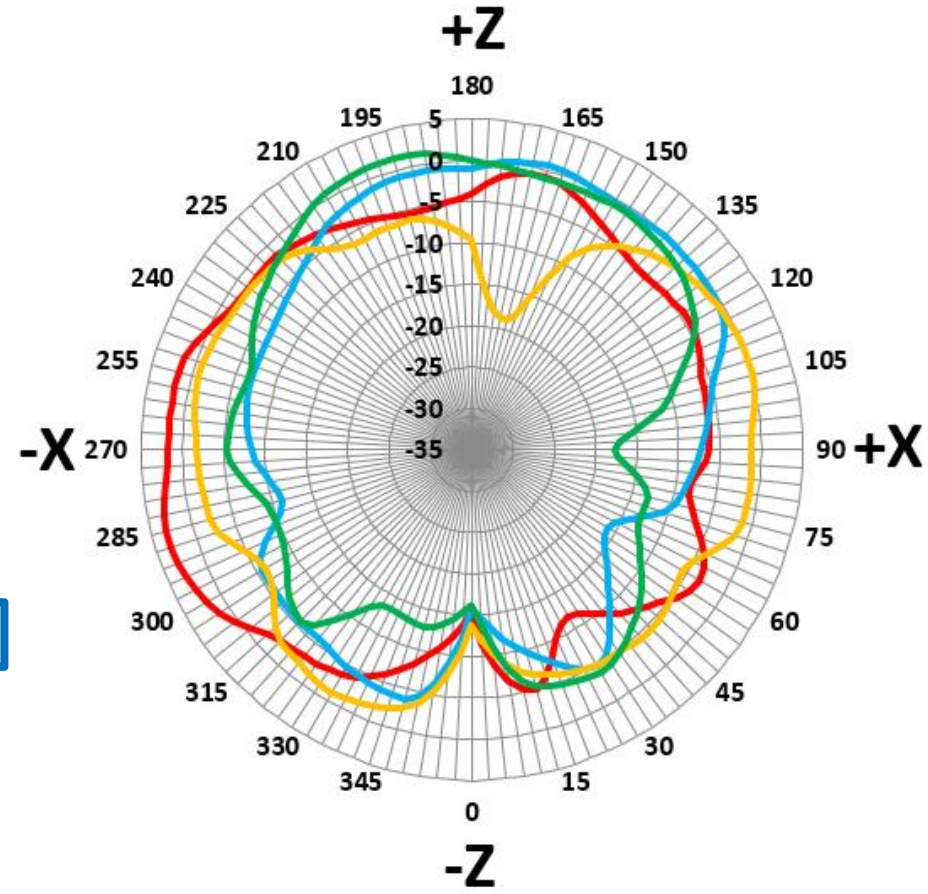
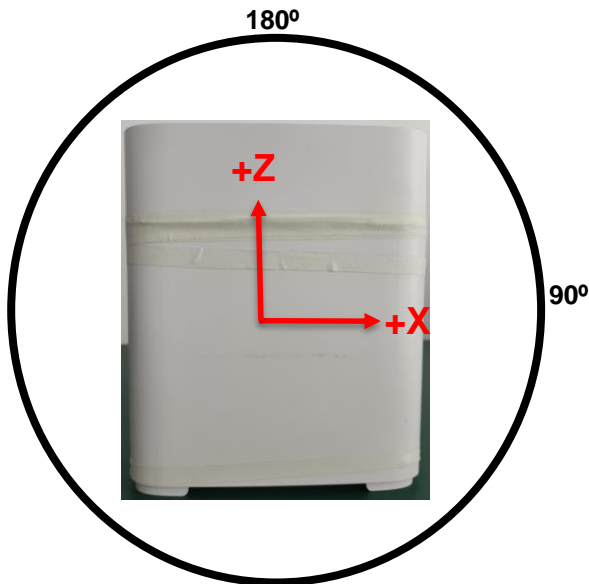
Frequency (MHz)	Degree		Gain (dBi)				UnCorrelated Gain (dBi)-V-Pol
	Theta	Phi	6G0	6G1	6G2	6G3	
5925	135	0	-9.94	4.22	-3.66	-10.49	-0.89
6300	120	165	-12.05	-2.33	4.02	-12.13	-0.93
6500	75	240	-16.44	2.79	-2.63	-13.11	-2.01
6800	90	180	-21.31	2.48	-0.67	-15.57	-1.77
7125	75	225	-16.41	4.17	-16.48	-20.03	-1.76

Azimuth Cut(XY)-Power Sum System Coverage-DB Antennas

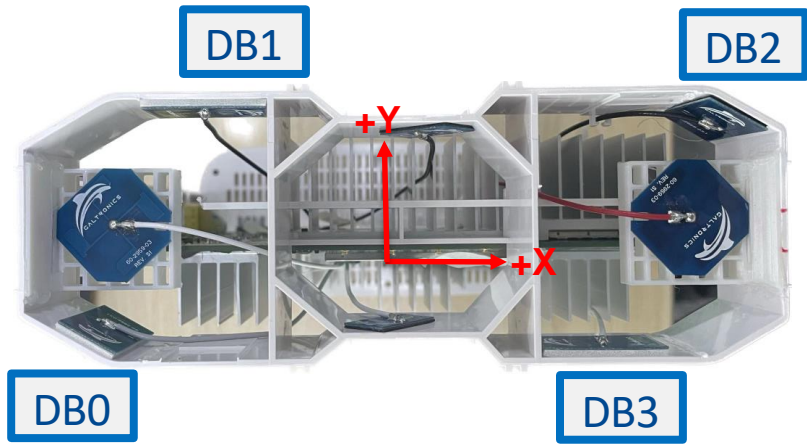


2450MHz

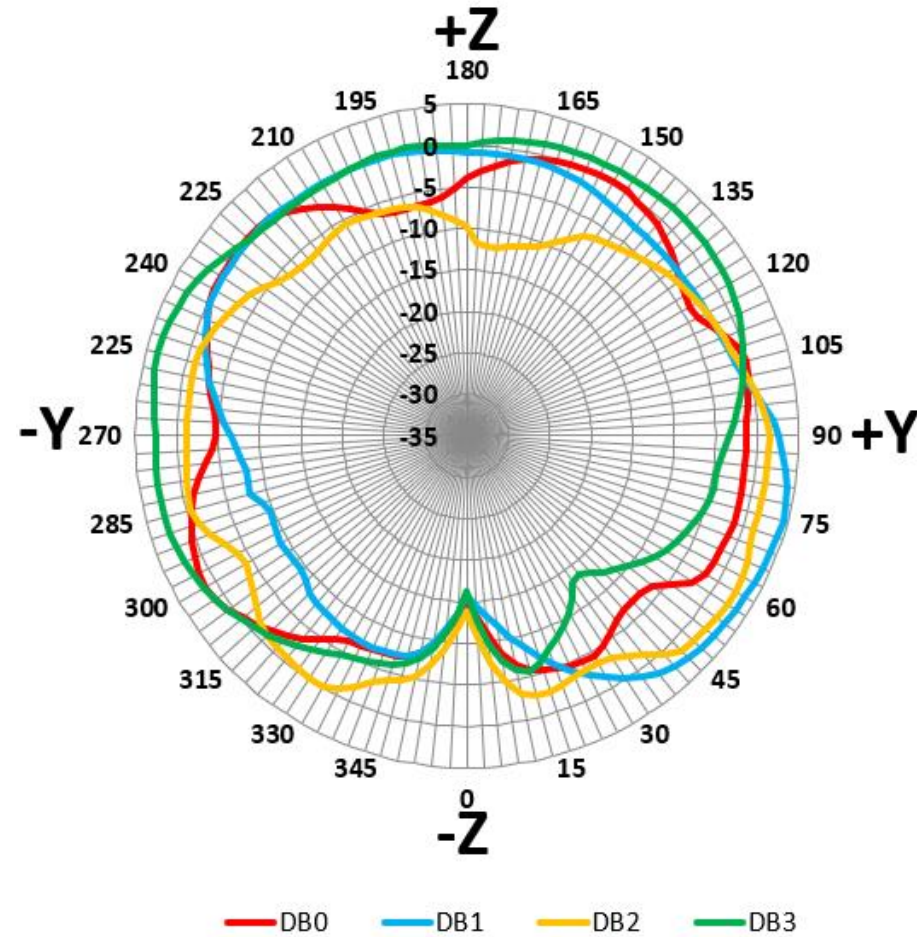
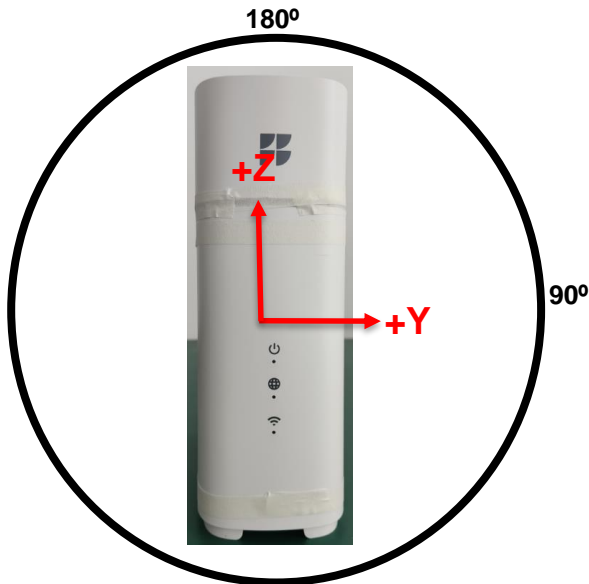
Elevation Cut(ZX)-Power Sum System Coverage-DB Antennas



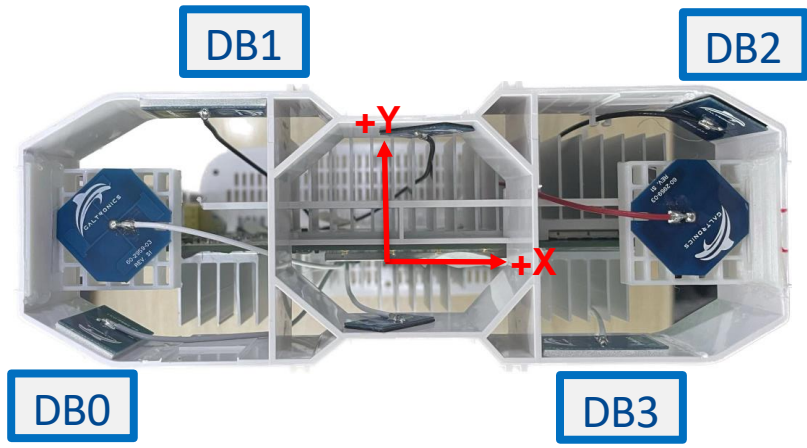
2450MHz



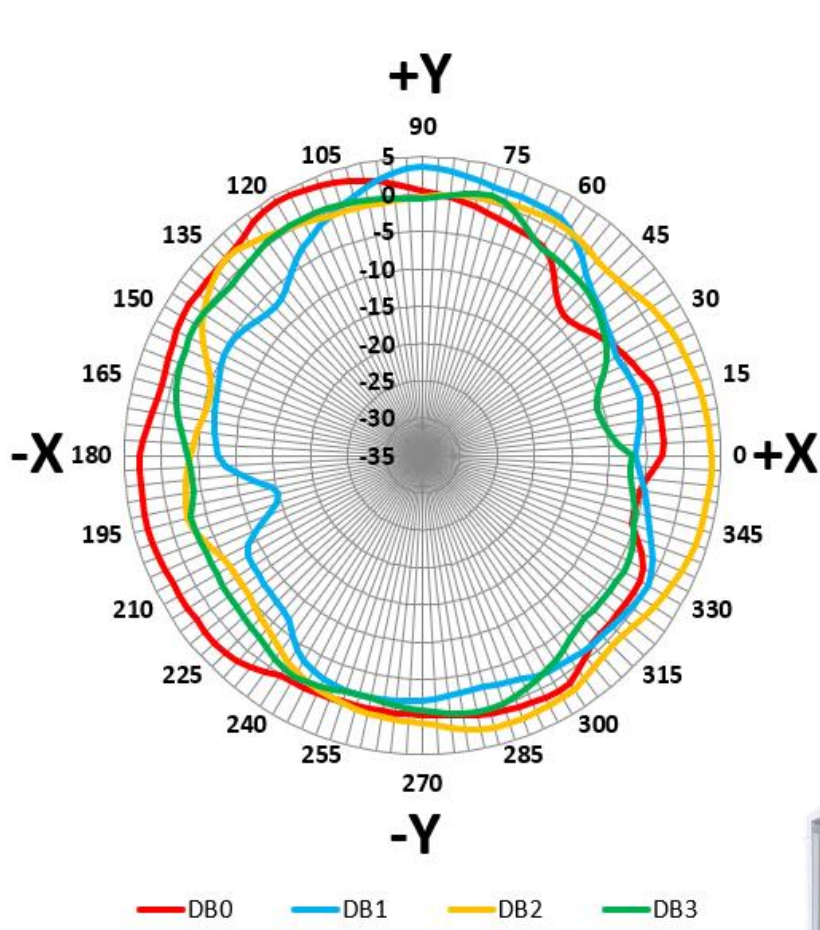
Elevation Cut(ZY)-Power Sum System Coverage-DB Antennas



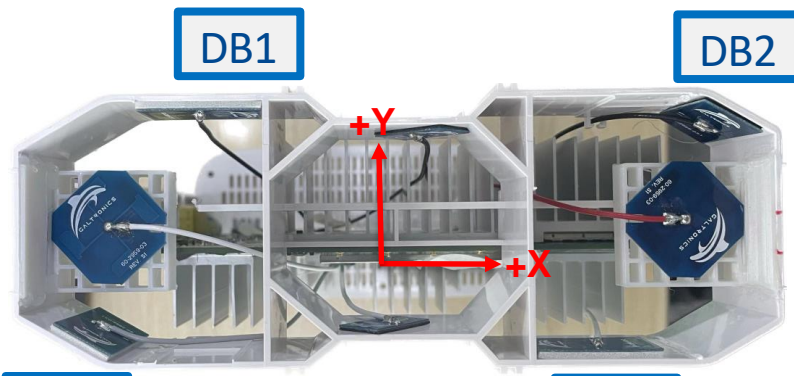
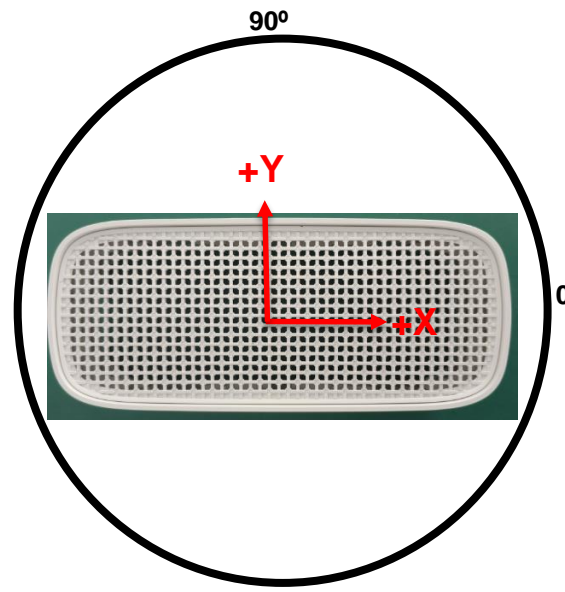
2450MHz



Azimuth Cut(XY)-Power Sum System Coverage-DB Antennas

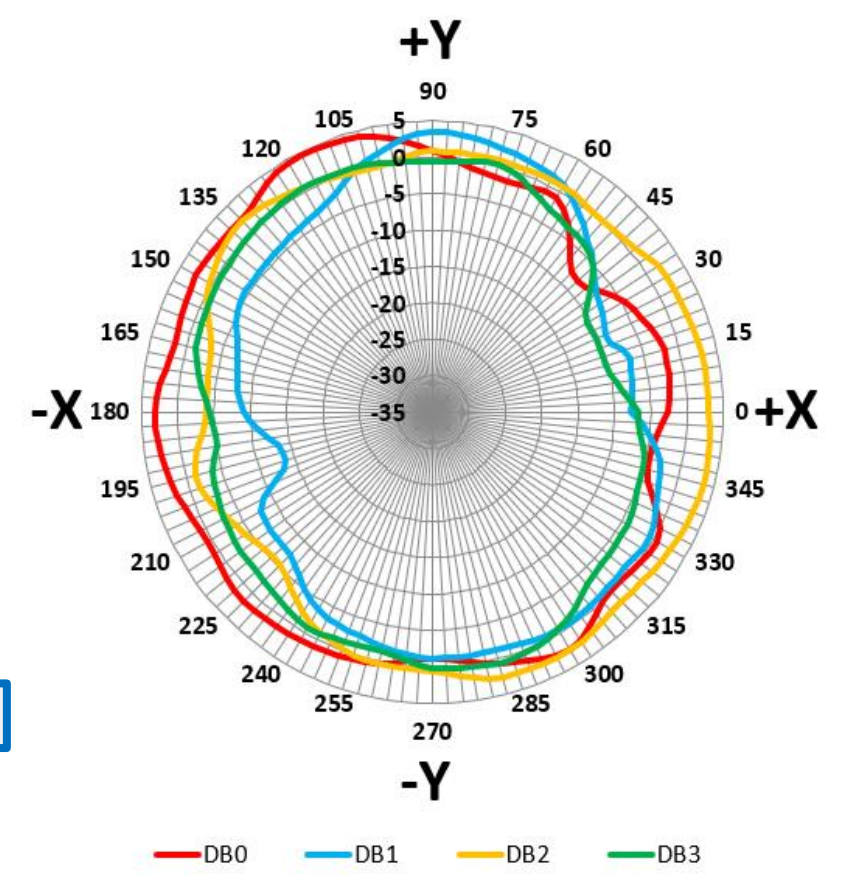


5350MHz



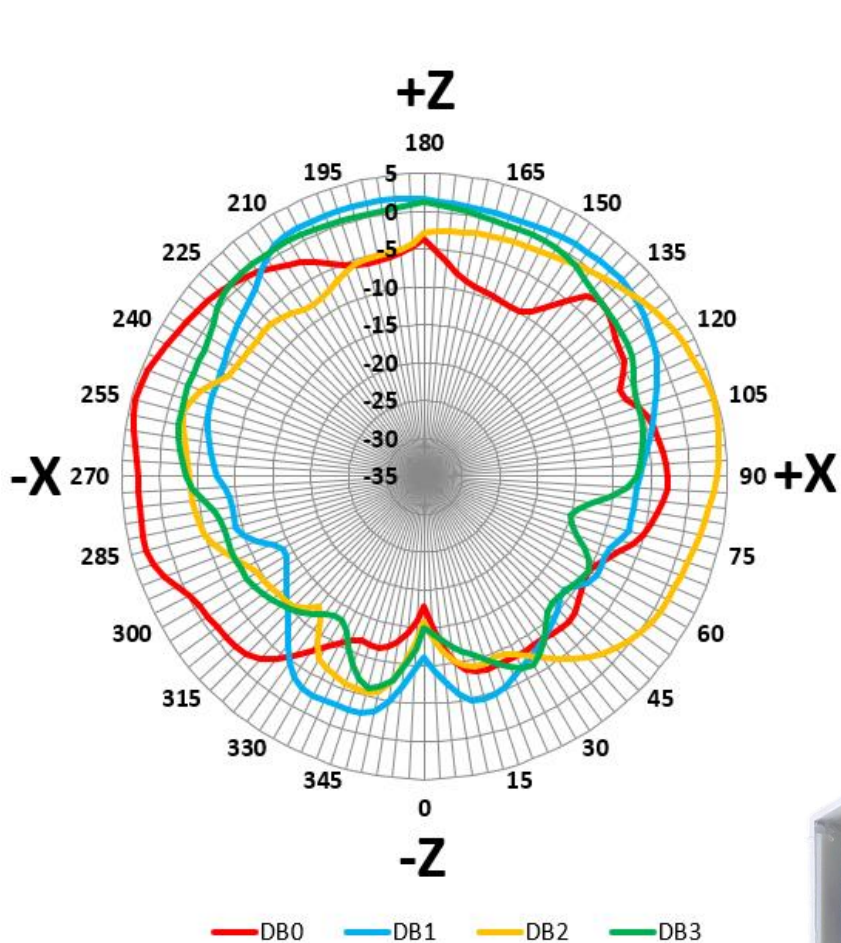
DB0

DB3

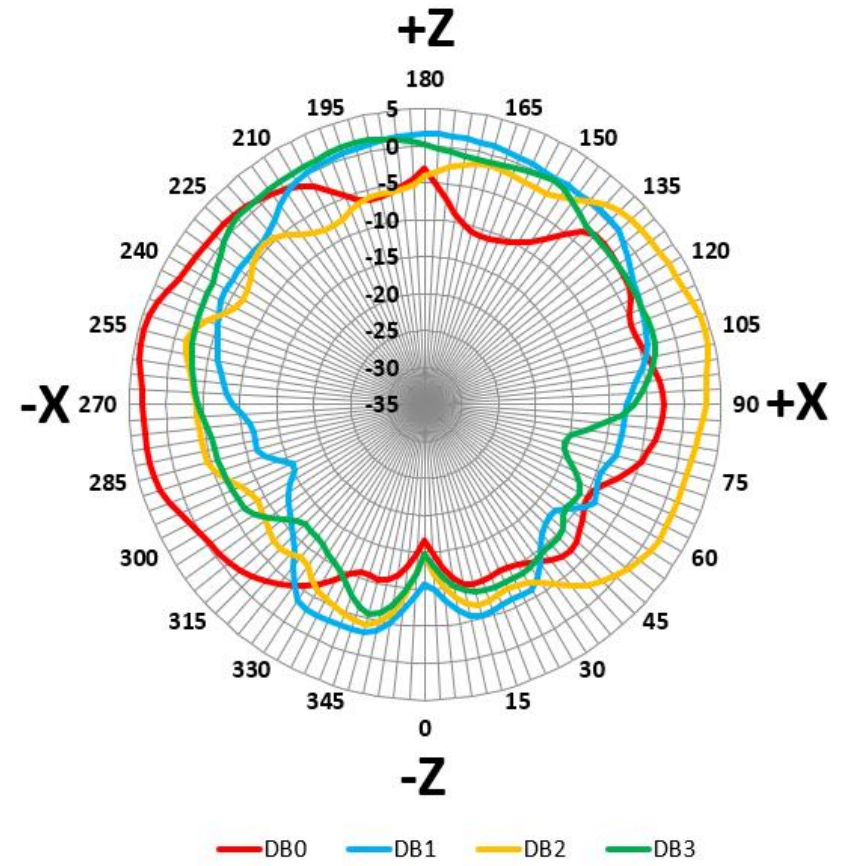
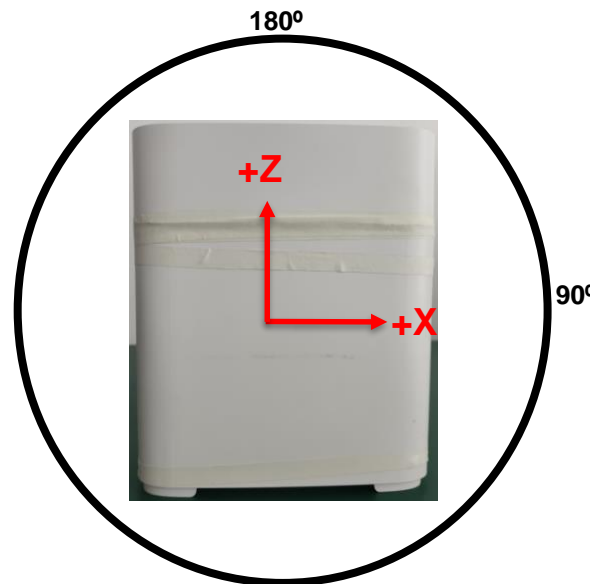


5750MHz

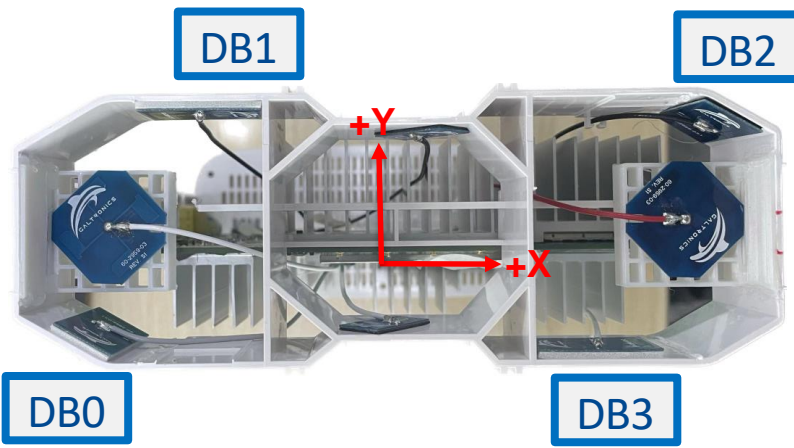
Elevation Cut(ZX)-Power Sum System Coverage-DB Antennas



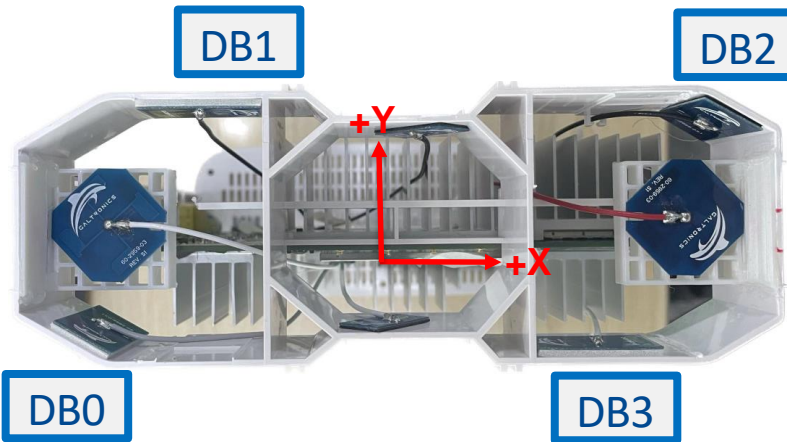
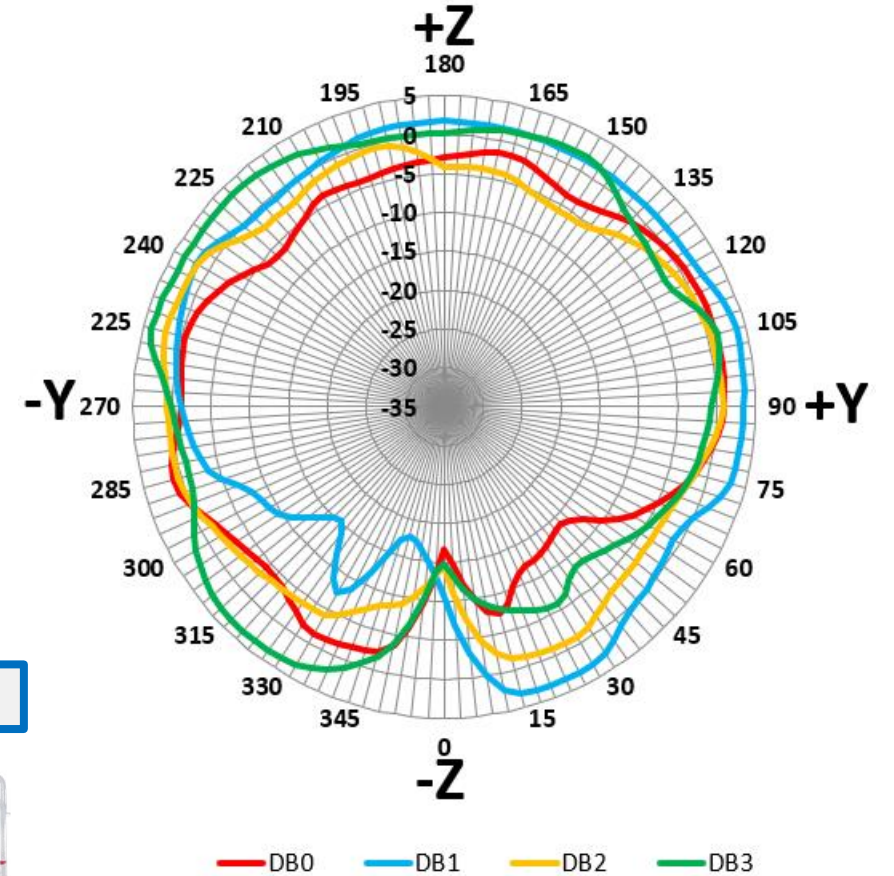
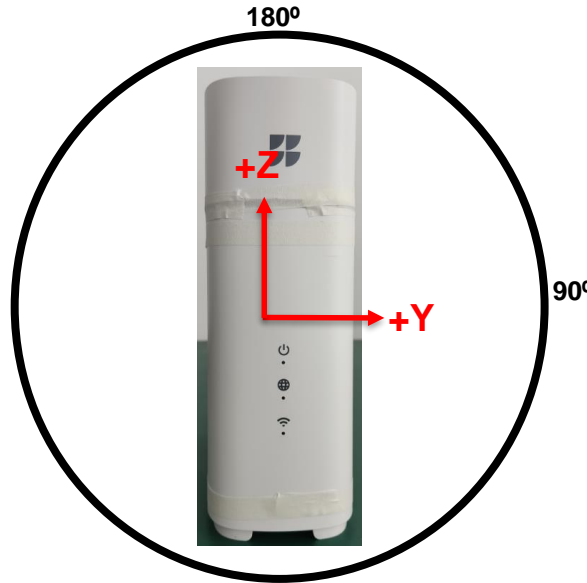
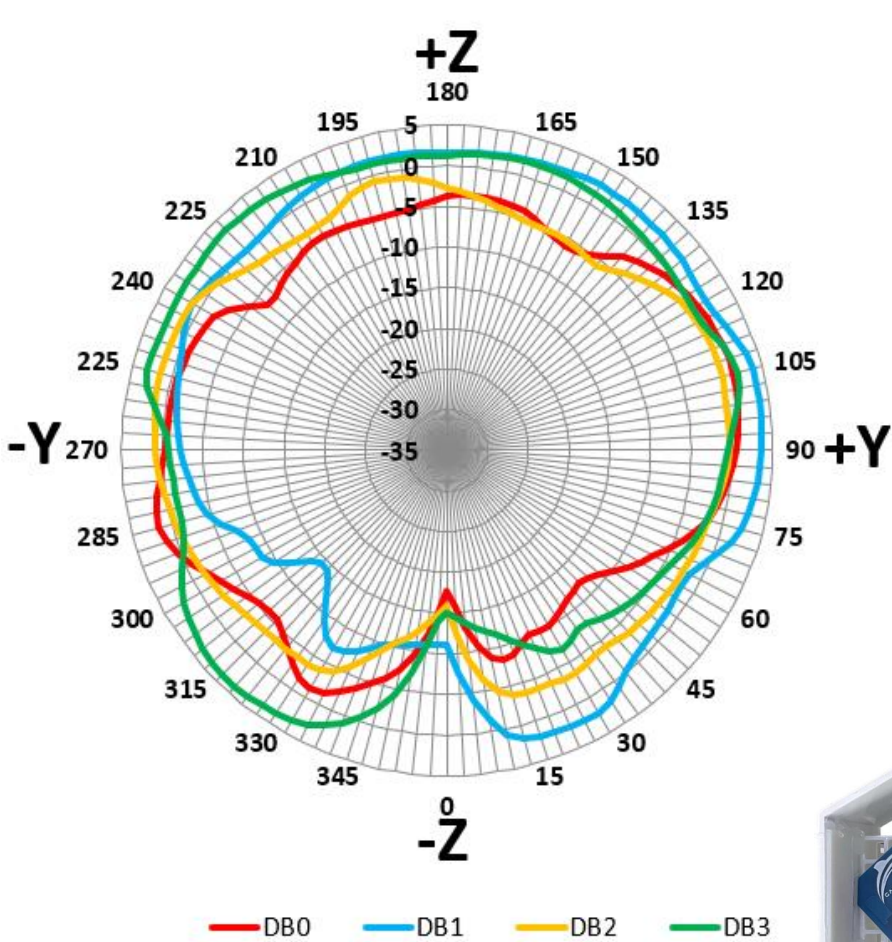
5350MHz



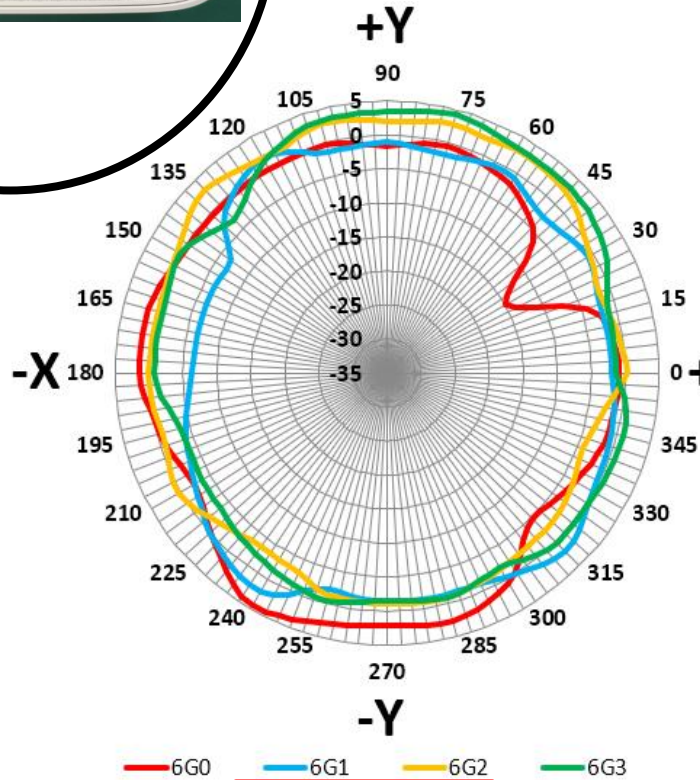
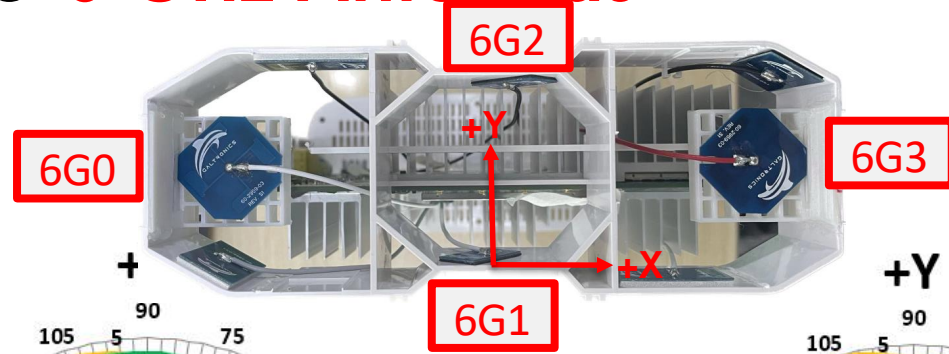
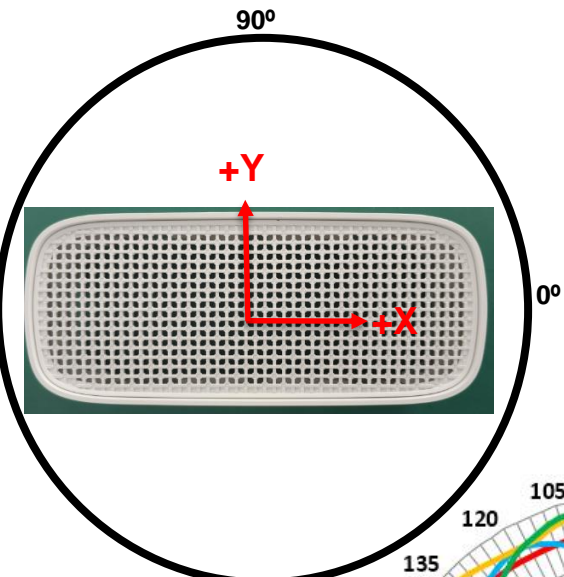
5750MHz



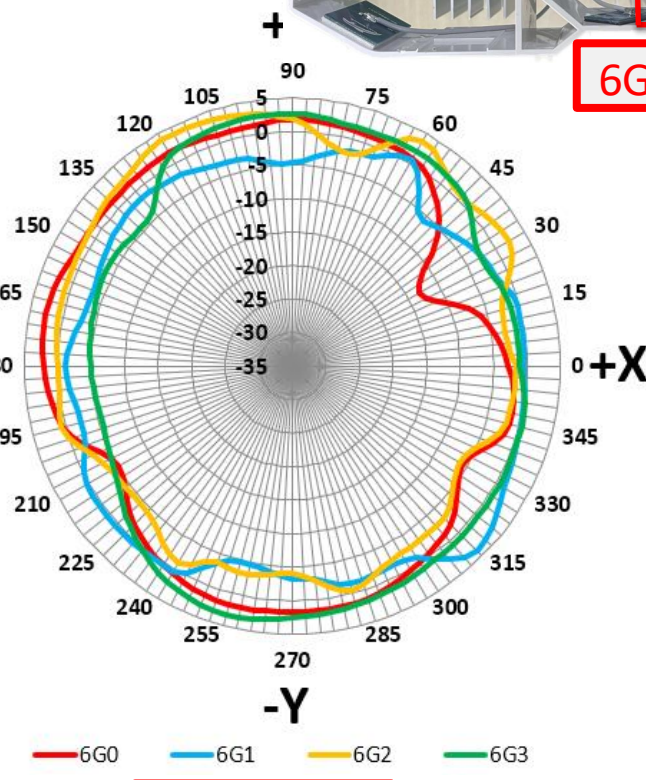
Elevation Cut(ZY)-Power Sum System Coverage-DB Antennas



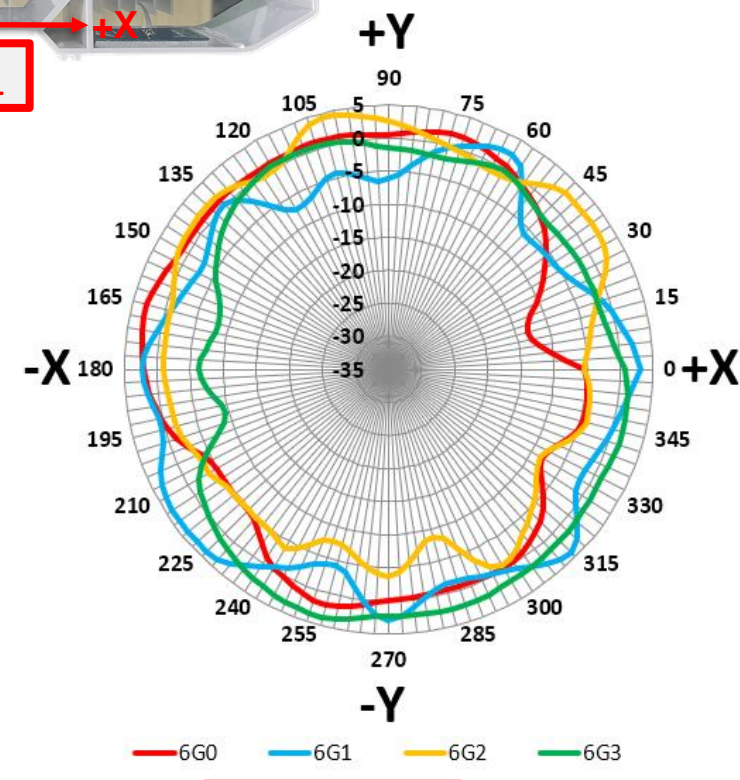
Azimuth Cut(XY)-Power Sum System Coverage-6 GHz Antennas



5925MHz

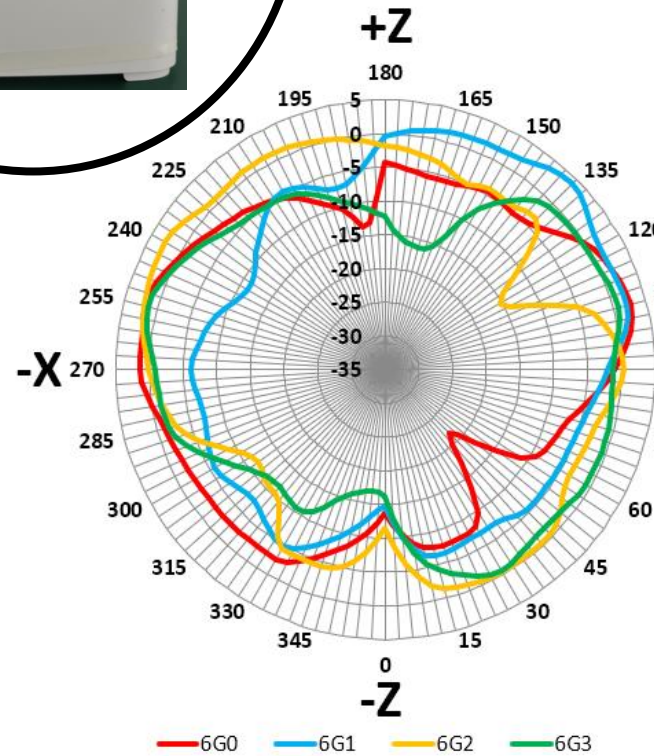
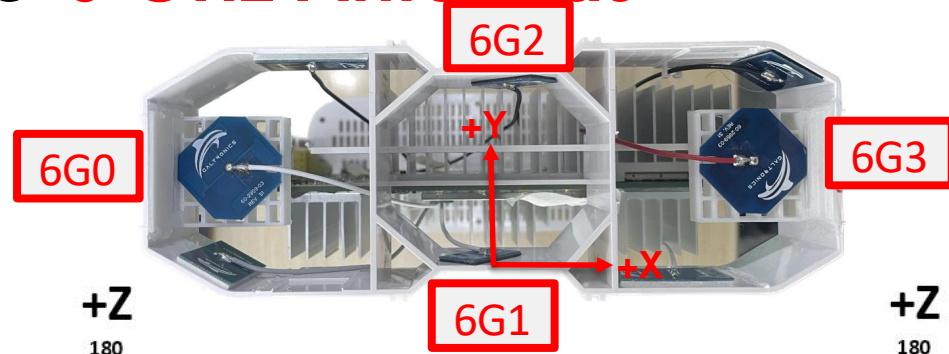
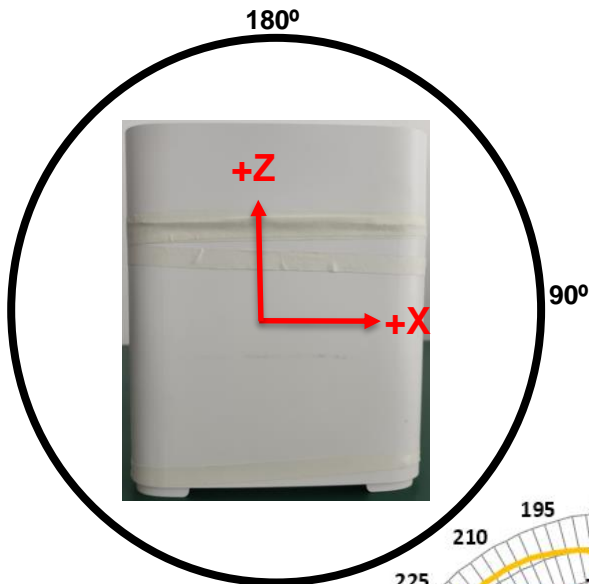


6500MHz

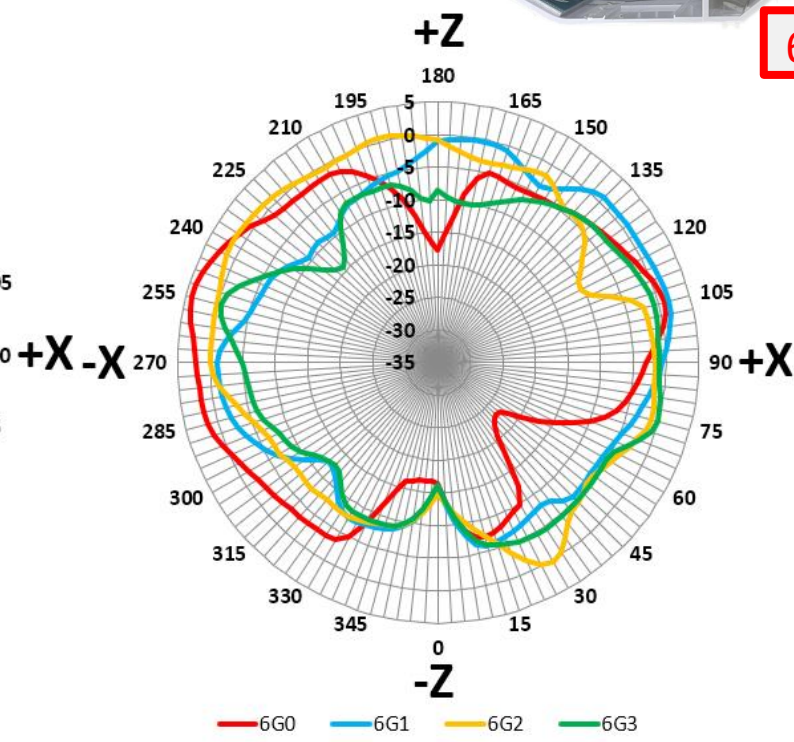


7125MHz

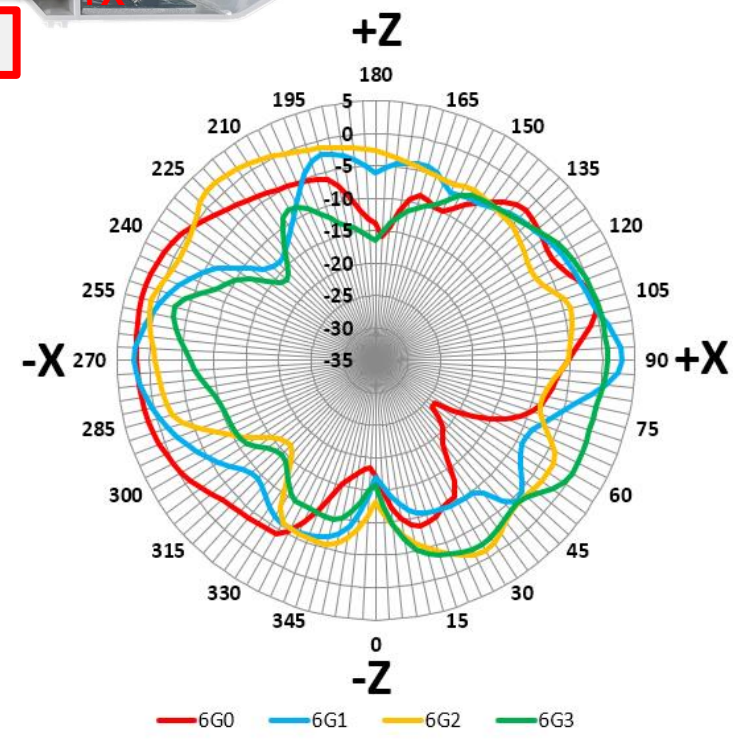
Elevation Cut(ZX)-Power Sum System Coverage-6 GHz Antennas



5925MHz

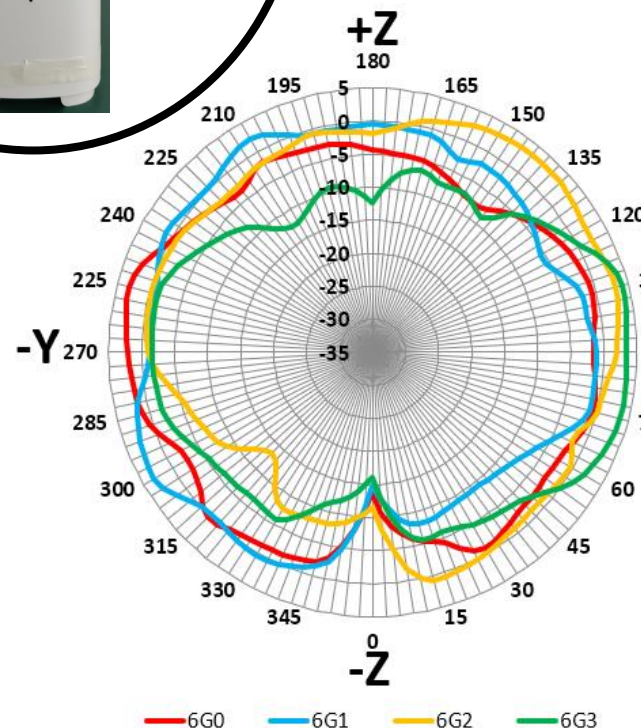
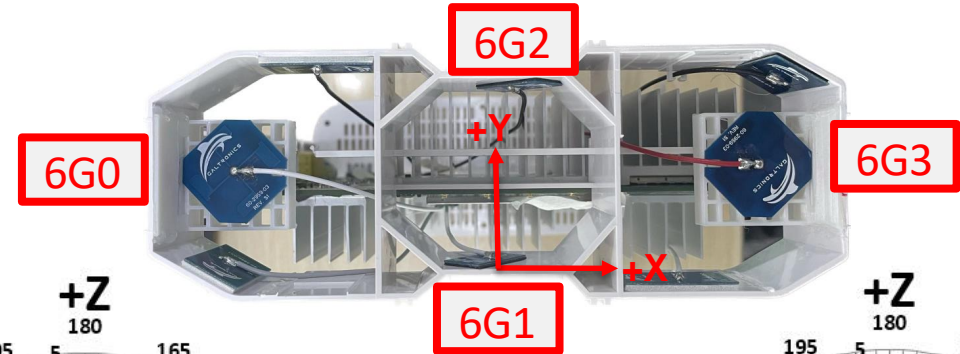
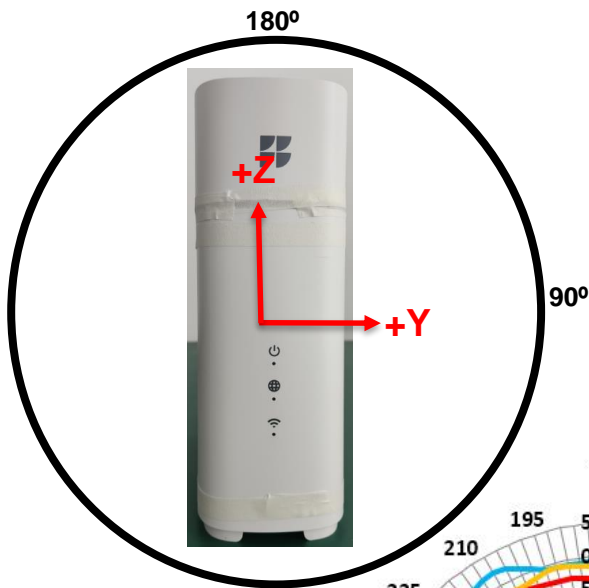


6500MHz

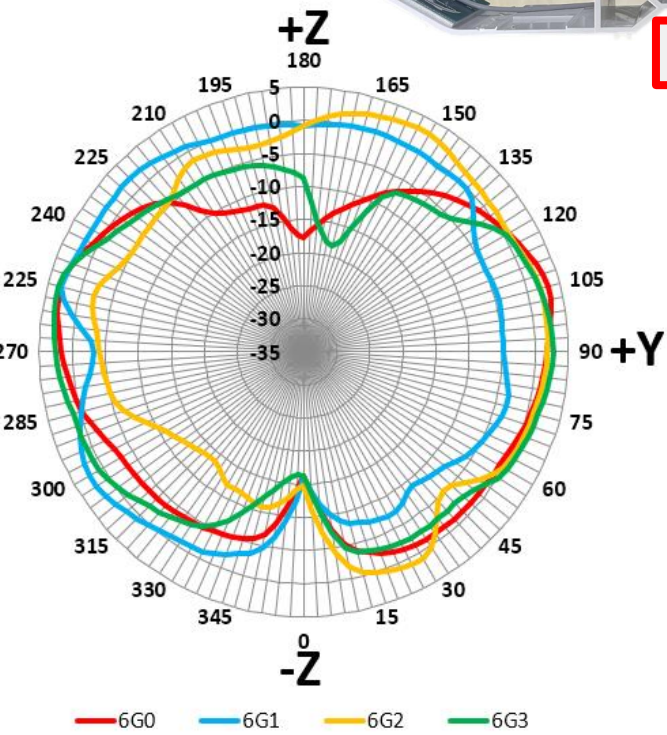


7125MHz

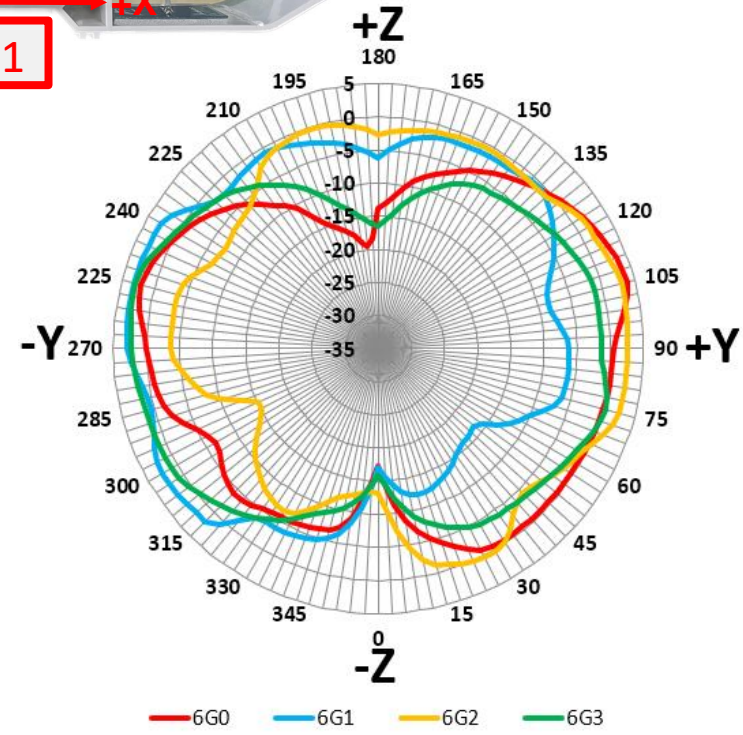
Elevation Cut(ZY)-Power Sum System Coverage-6 GHz Antennas



5925MHz

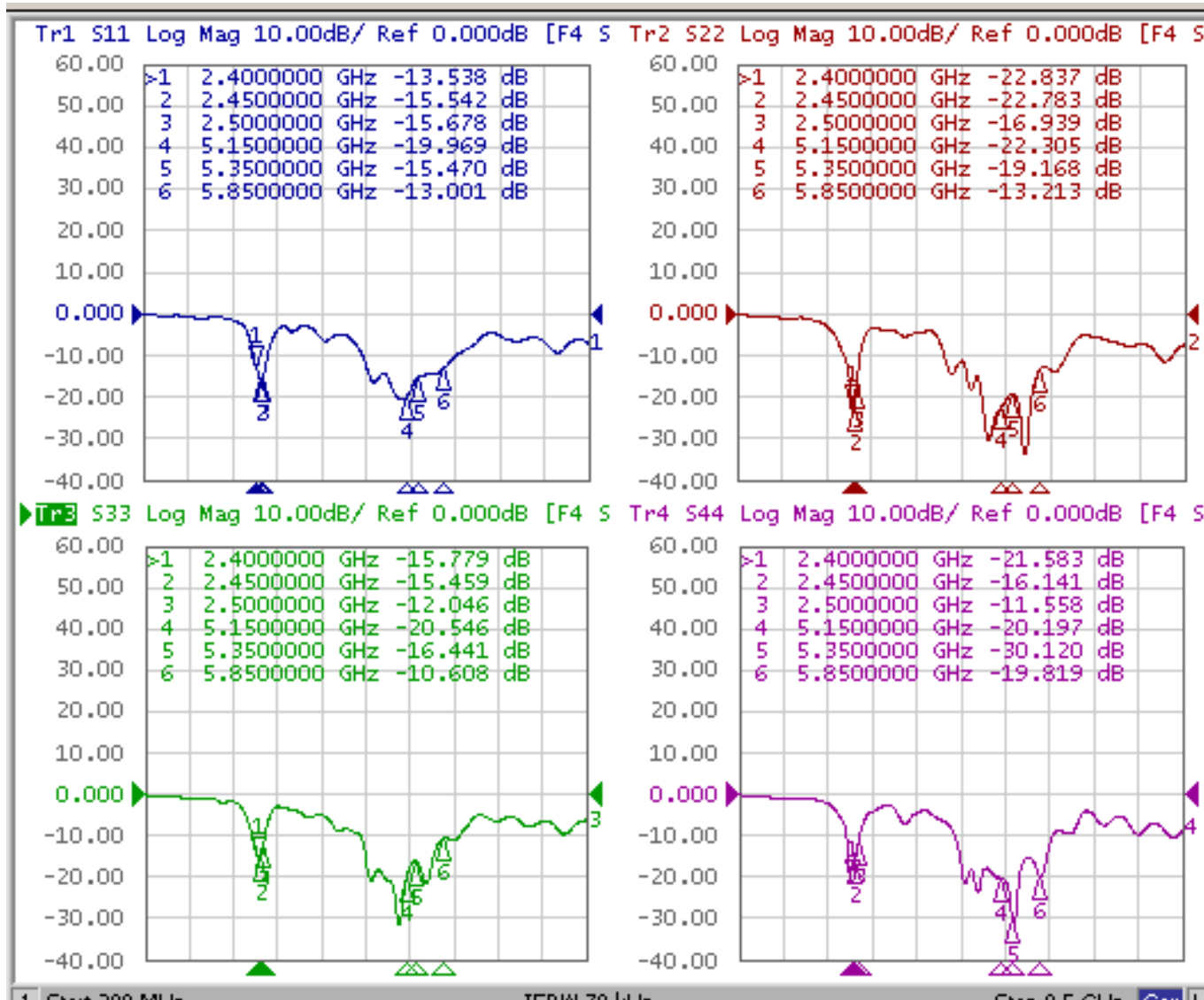


6500MHz

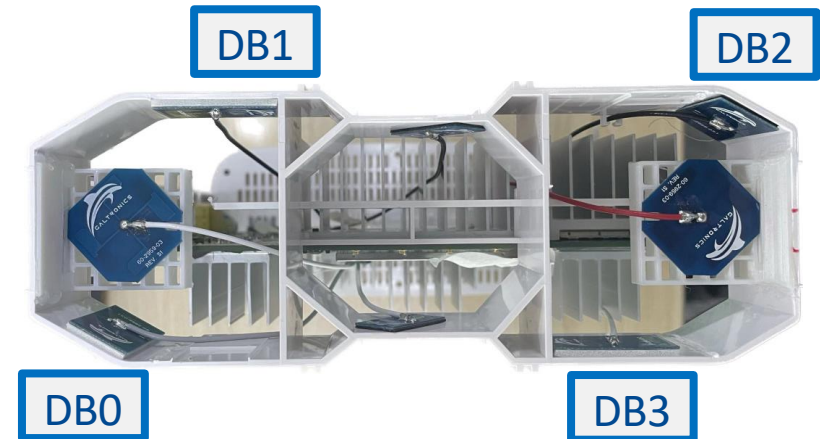


7125MHz

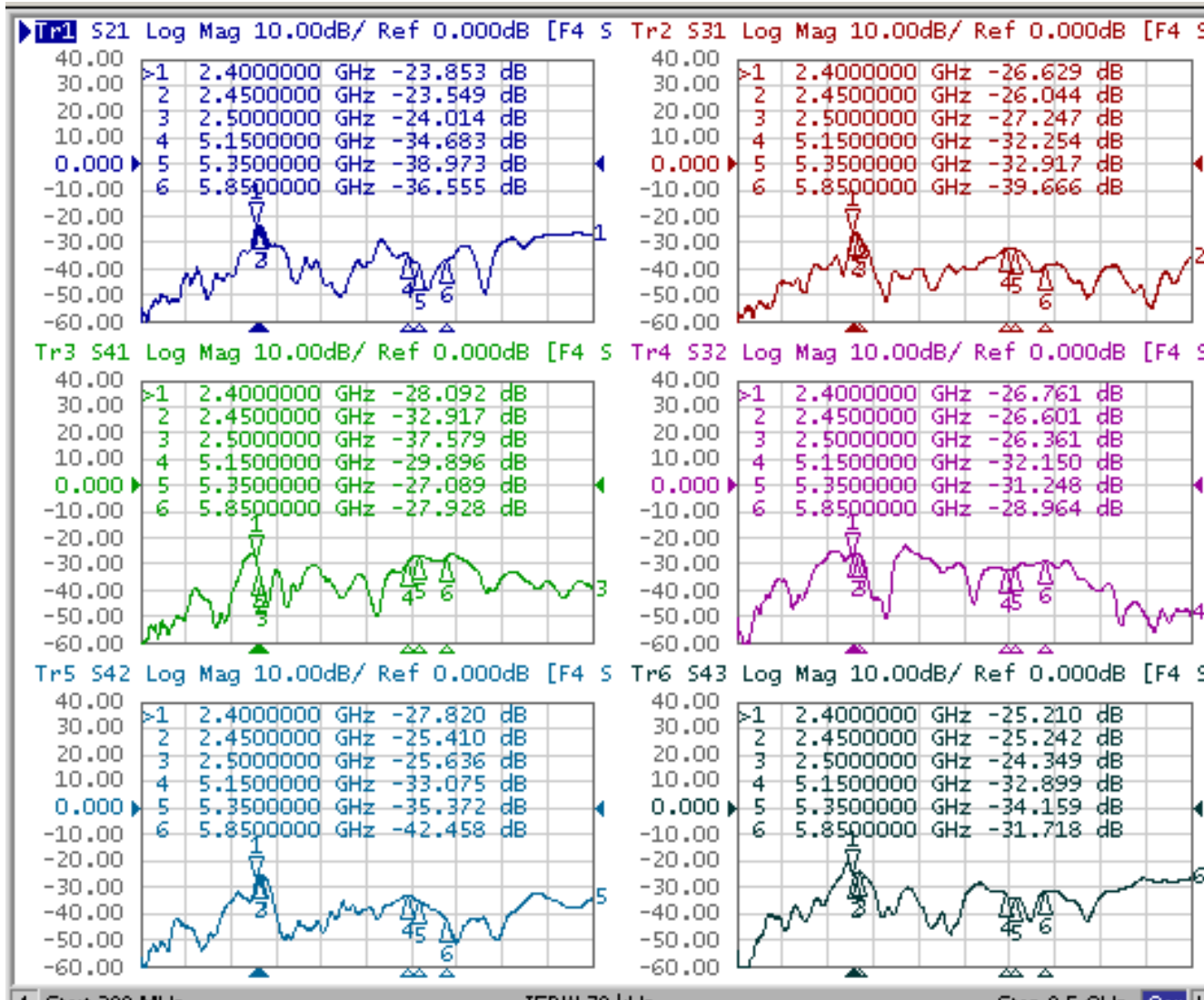
Return Loss of the Dual Band Antennas



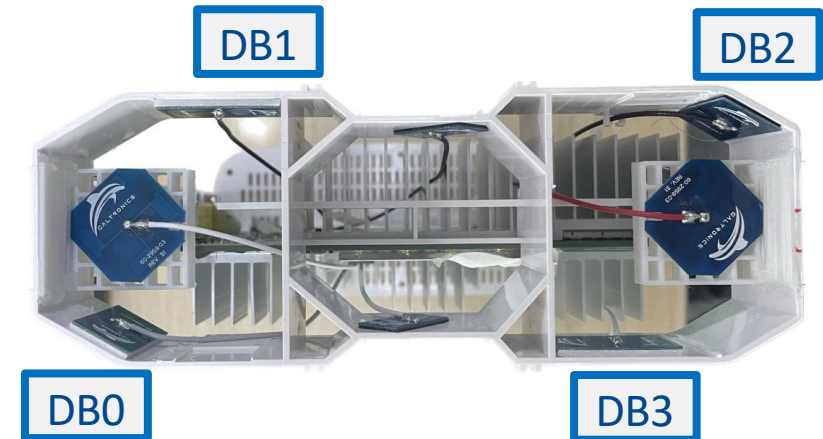
Port 1=DB0	Port 2=DB1
Port 3=DB2	Port 4=DB3



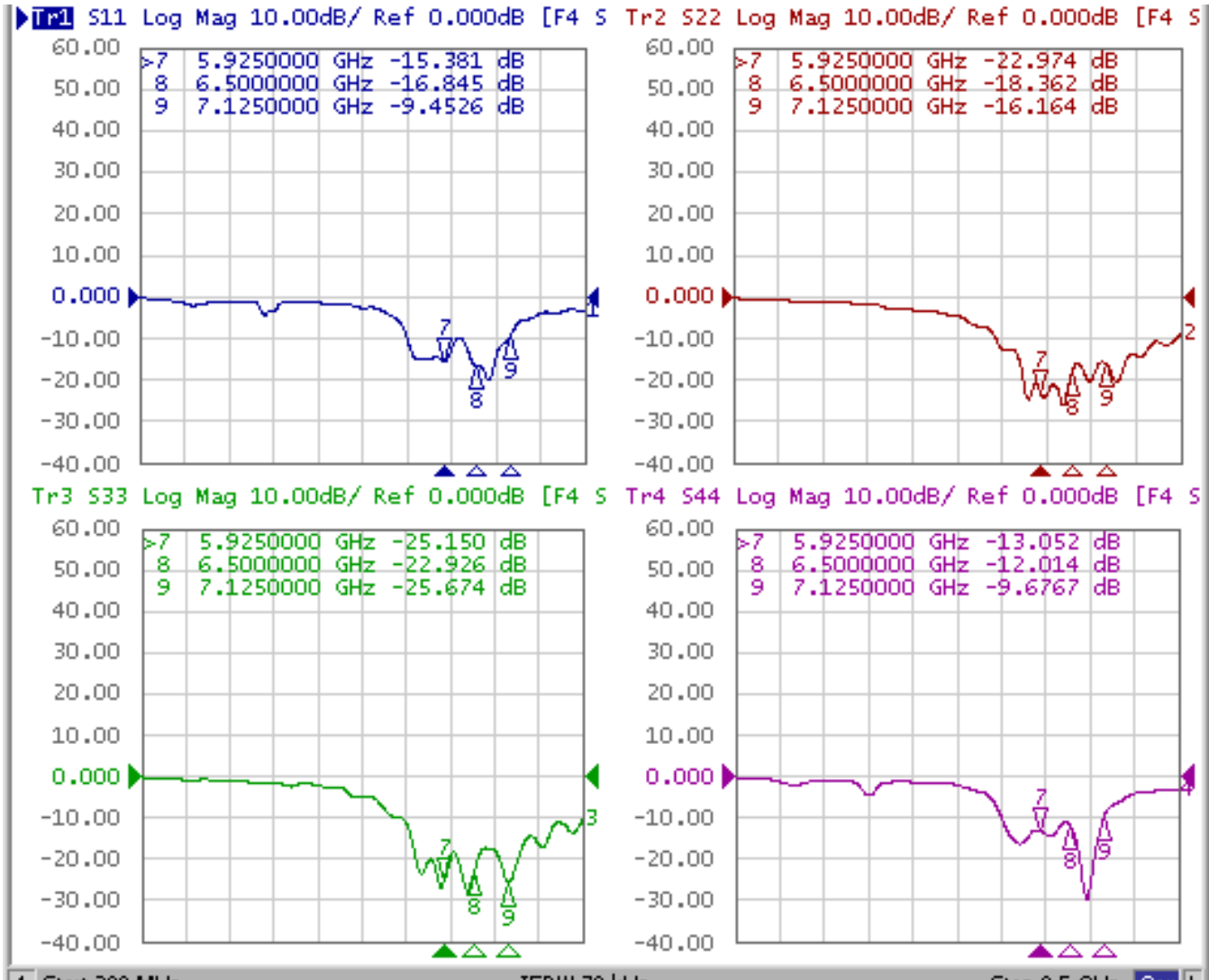
Isolation of the Dual Band Antennas



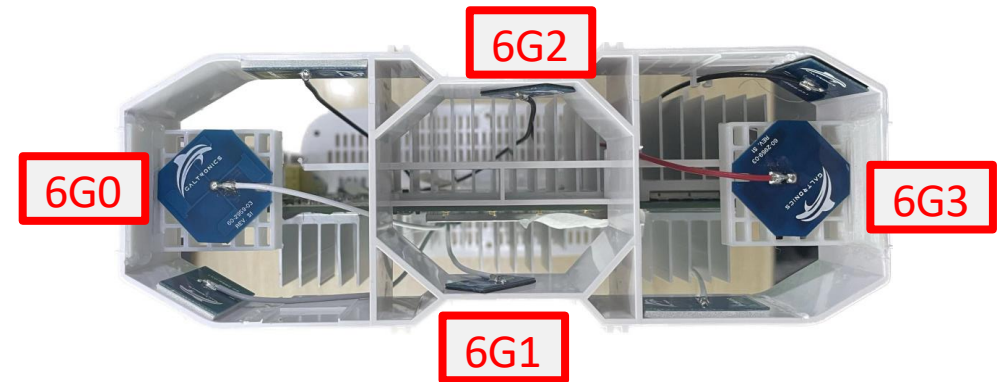
Port 1=DB0	Port 2=DB1
Port 3=DB2	Port 4=DB3



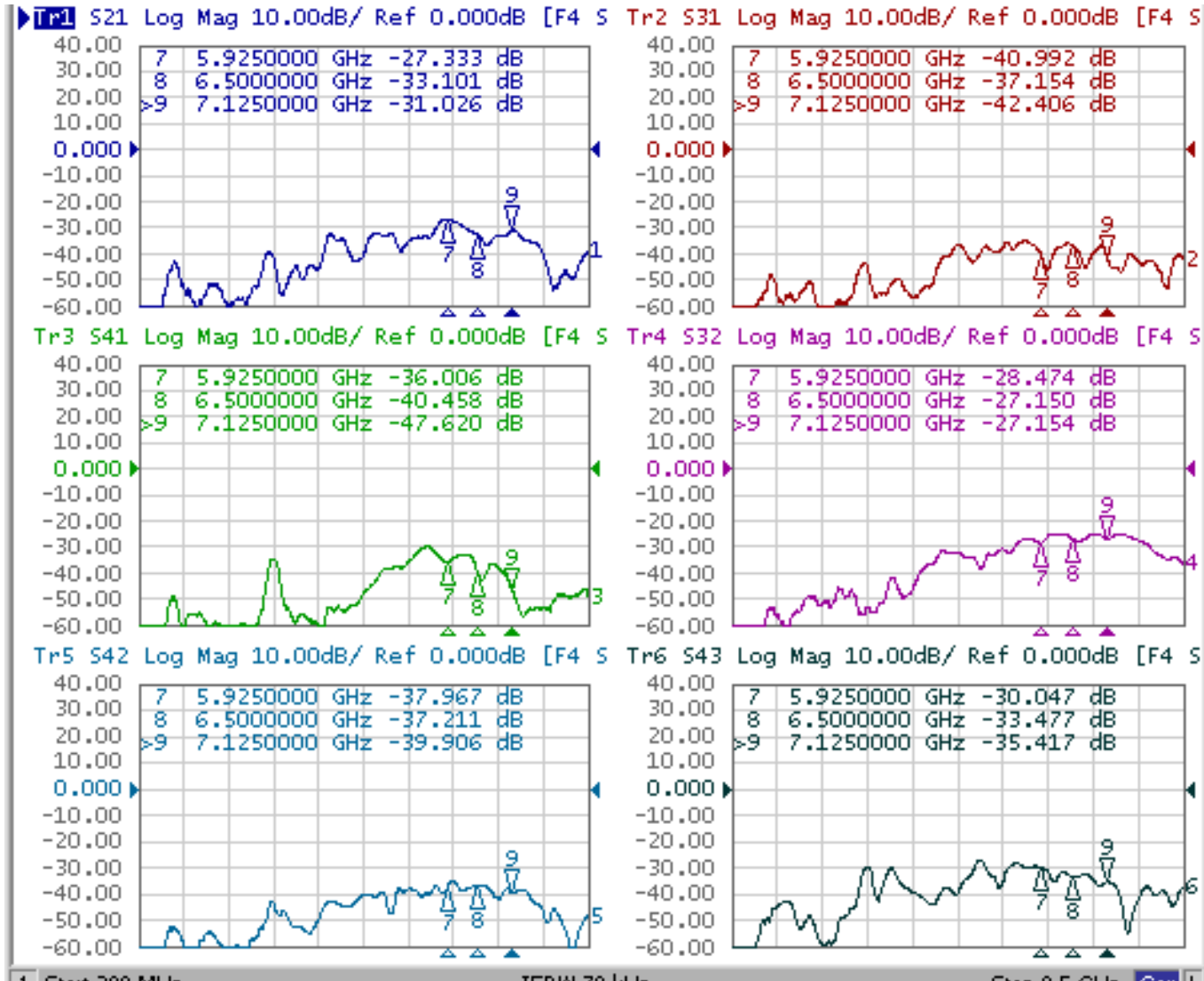
Return Loss of 6 GHz Antennas



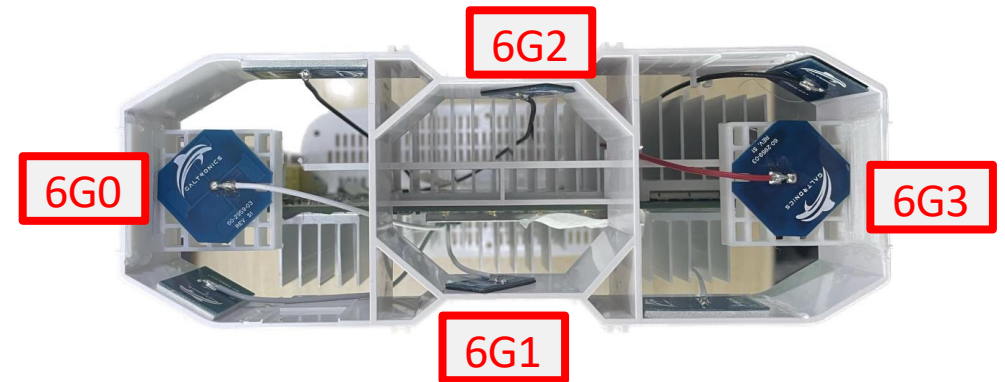
Port 1=6G0	Port 2=6G1
Port 3=6G2	Port 4=6G3



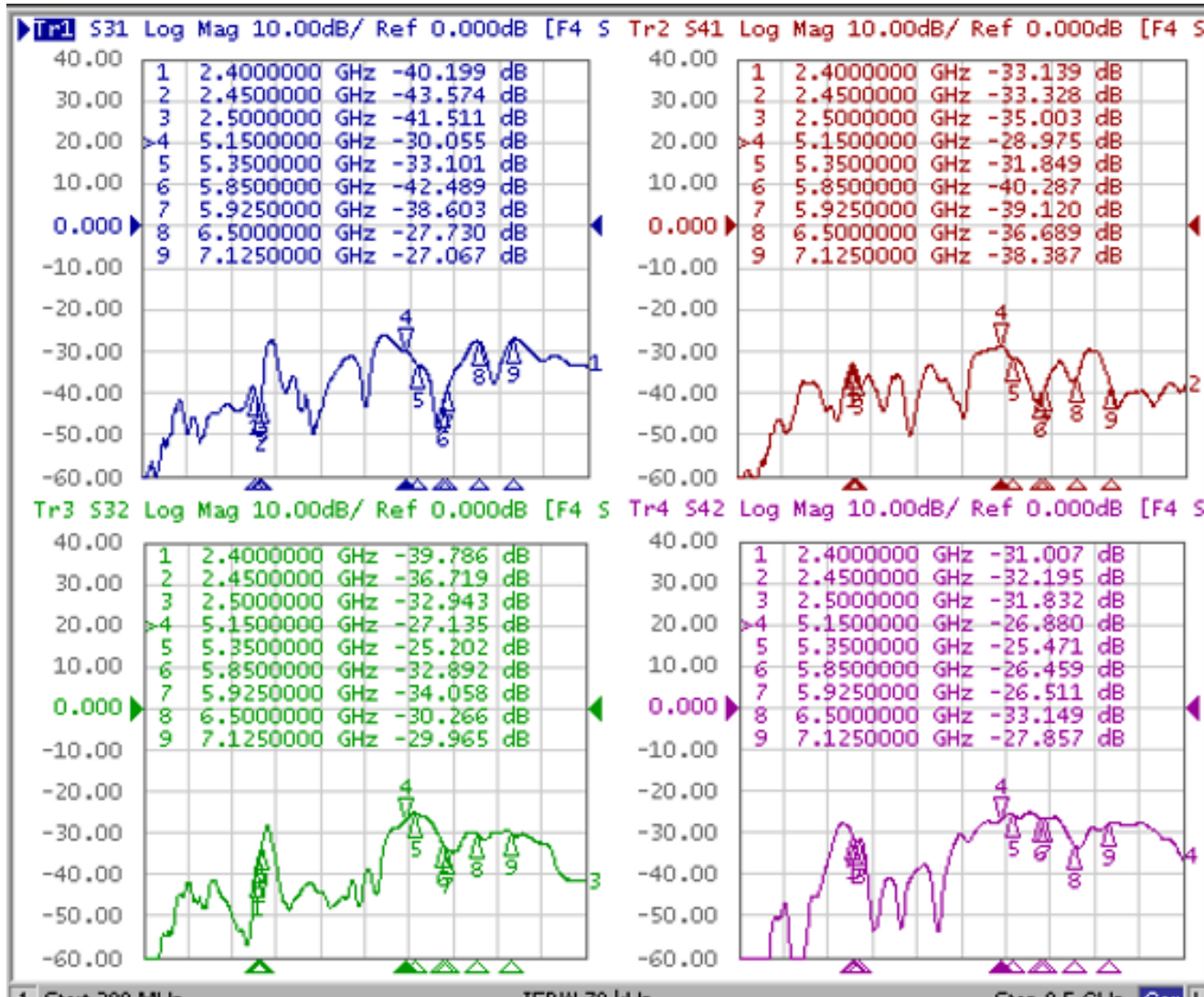
Isolation between 6 GHz Antennas



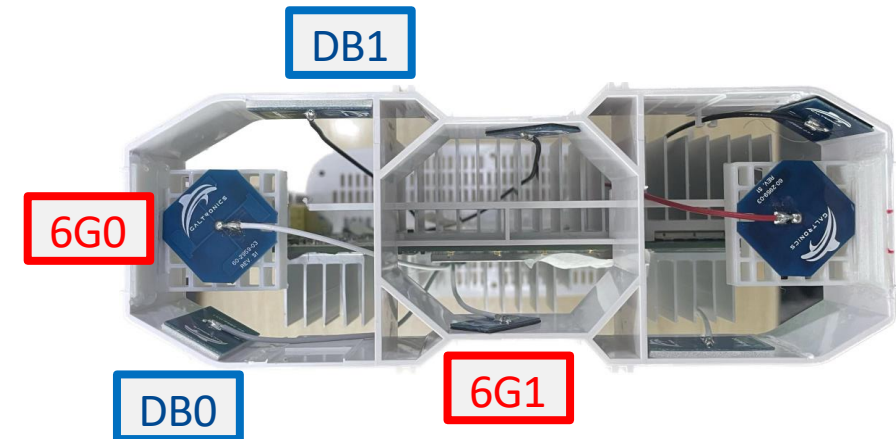
Port 1=6G0	Port 2=6G1
Port 3=6G2	Port 4=6G3



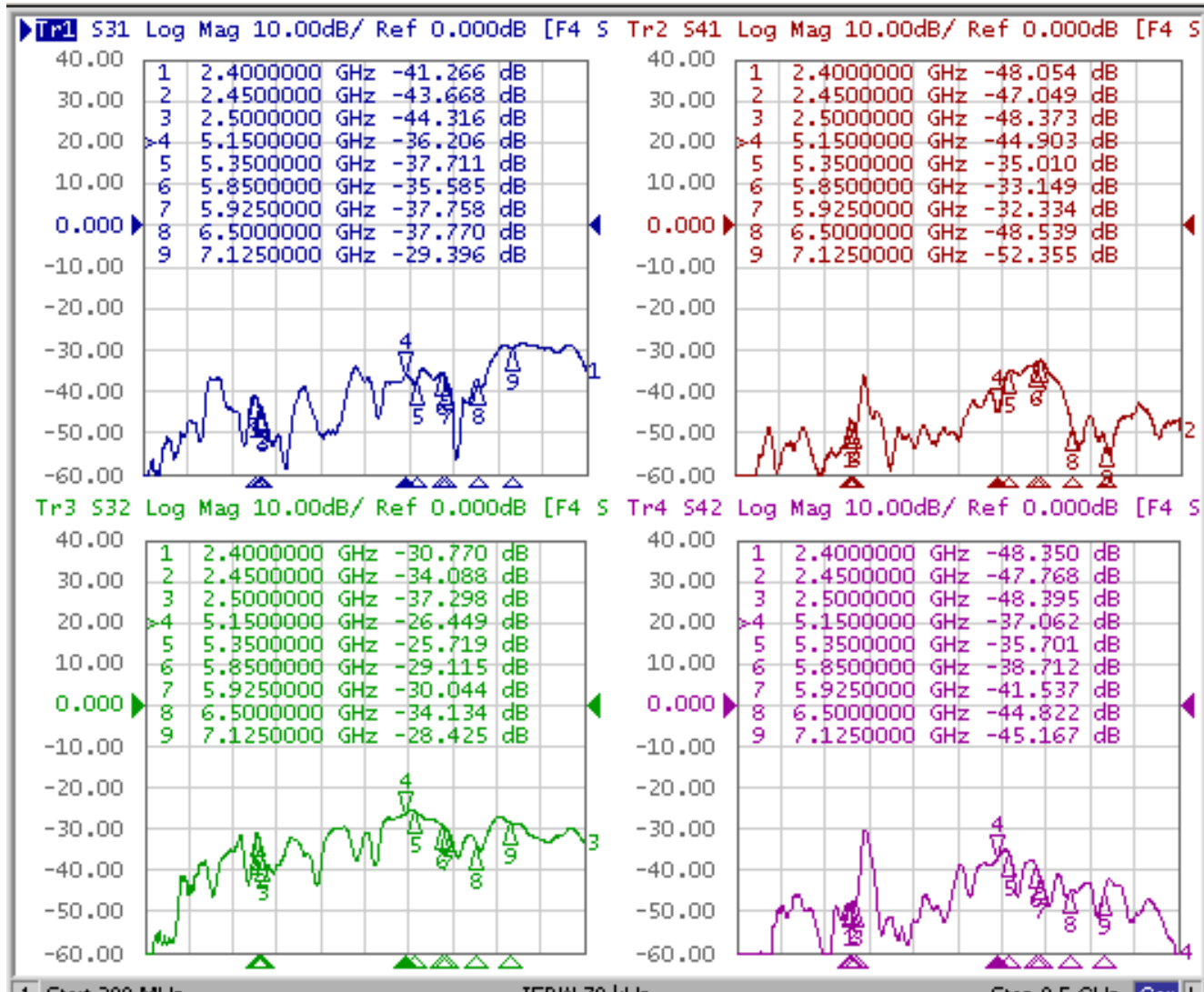
Isolation between DB and 6 GHz Antennas



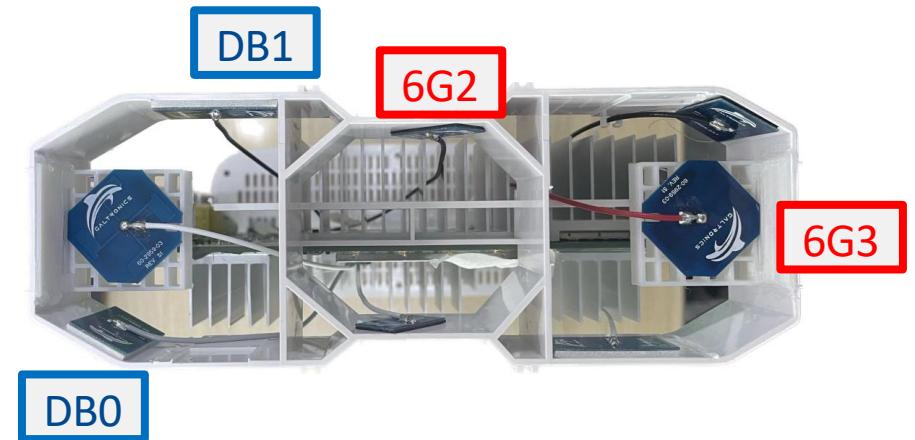
Port 1=DB0	Port 2=DB1
Port 3=6G0	Port 4=6G1



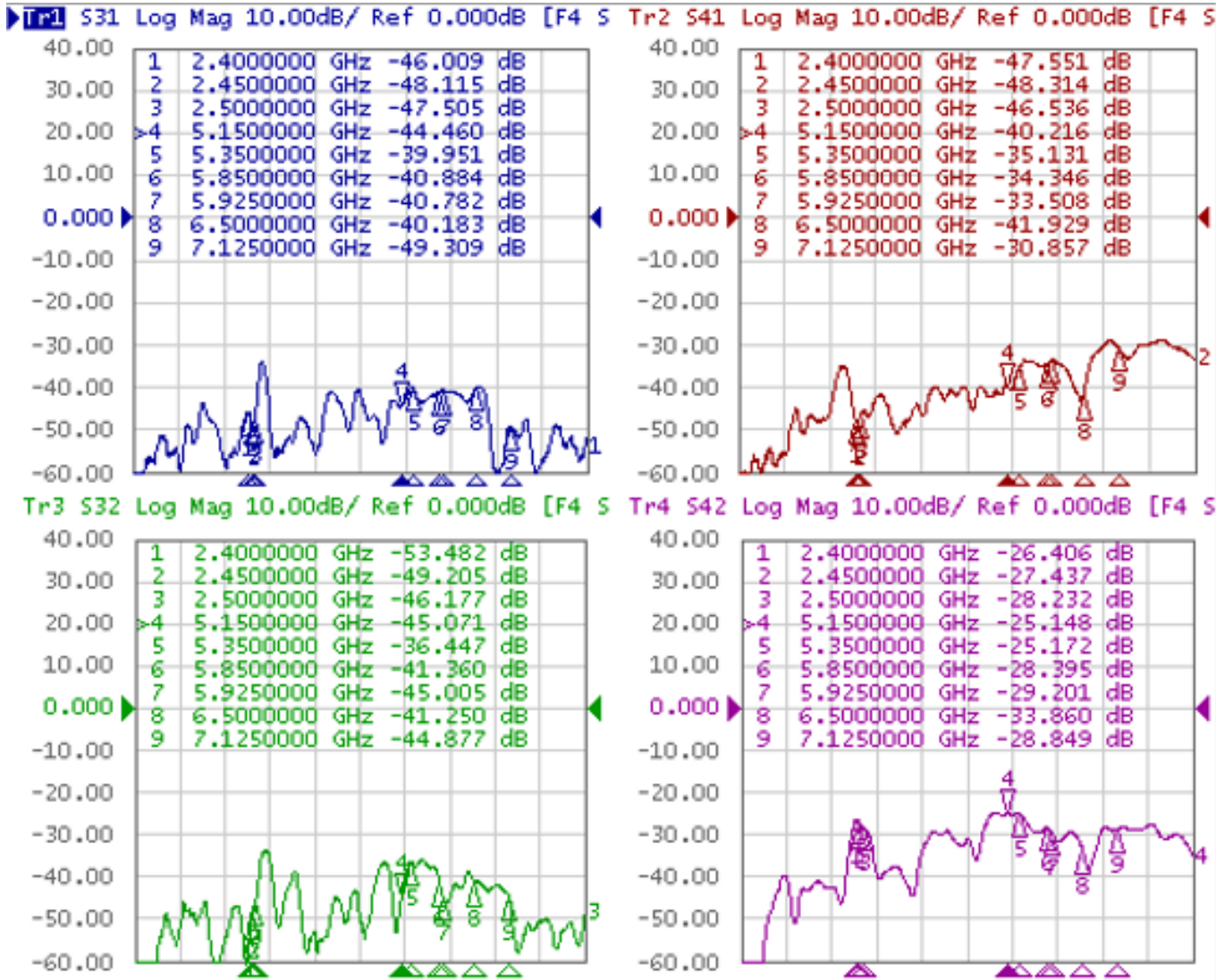
Isolation between DB and 6 GHz Antennas



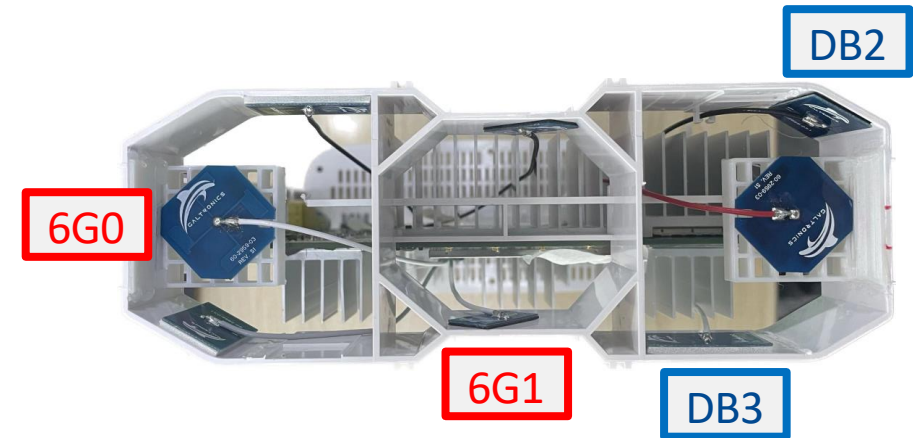
Port 1=DB0	Port 2=DB1
Port 3=6G2	Port 4=6G3



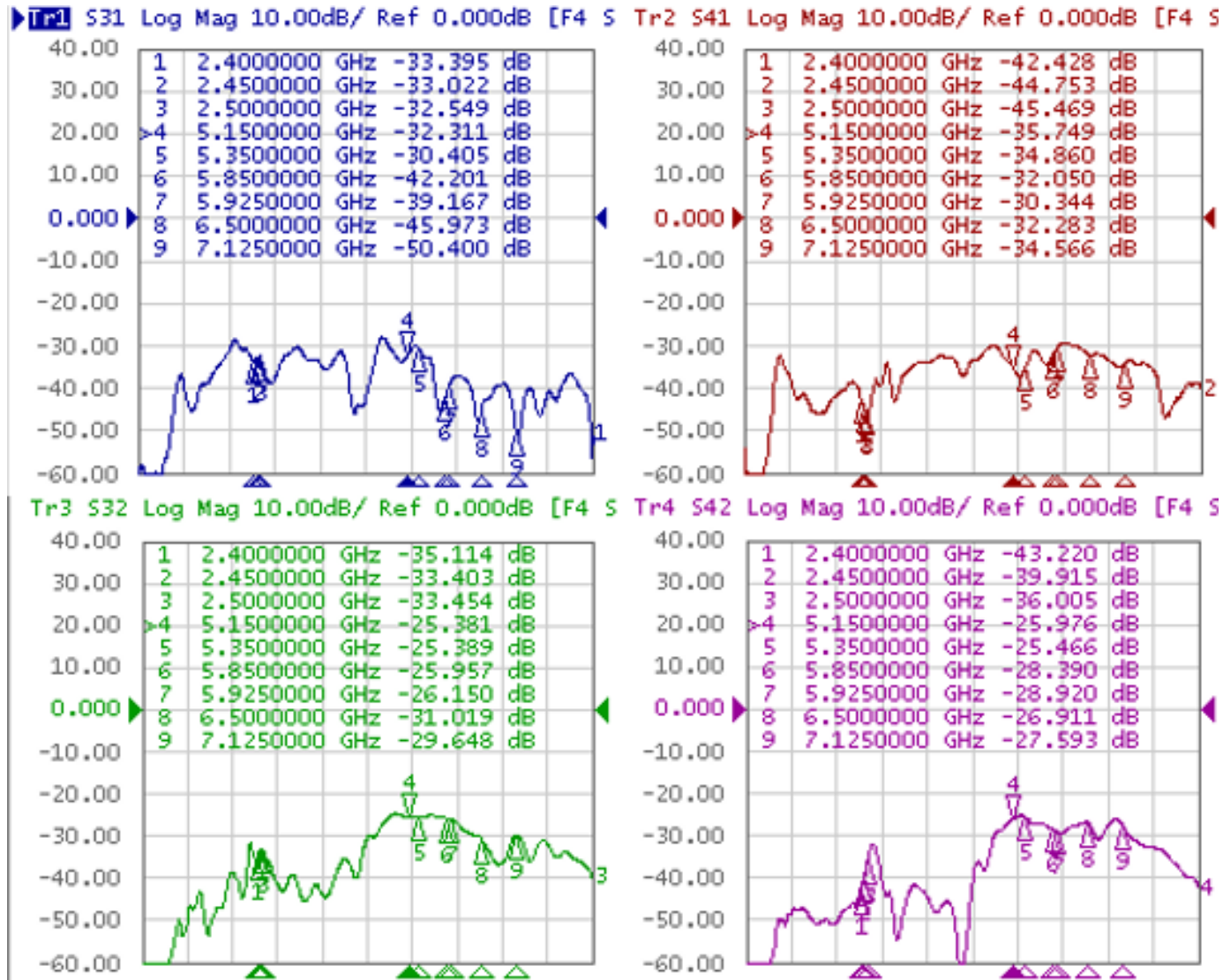
Isolation between DB and 6 GHz Antennas



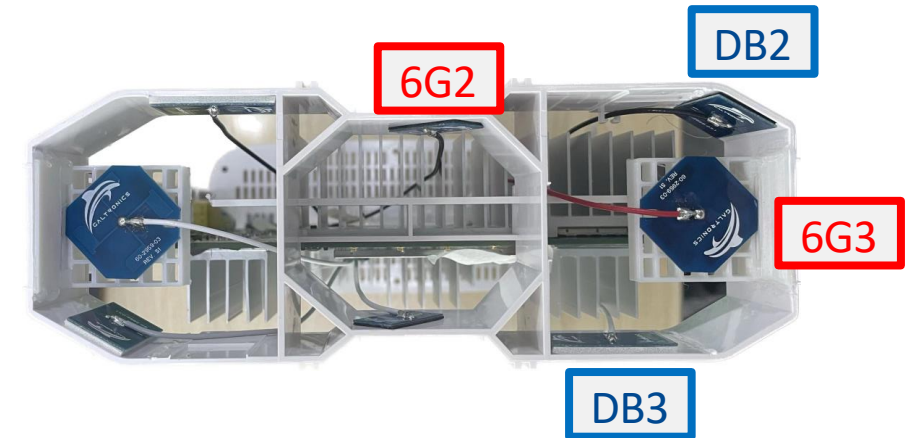
Port 1=DB2	Port 2=DB3
Port 3=6G0	Port 4=6G1



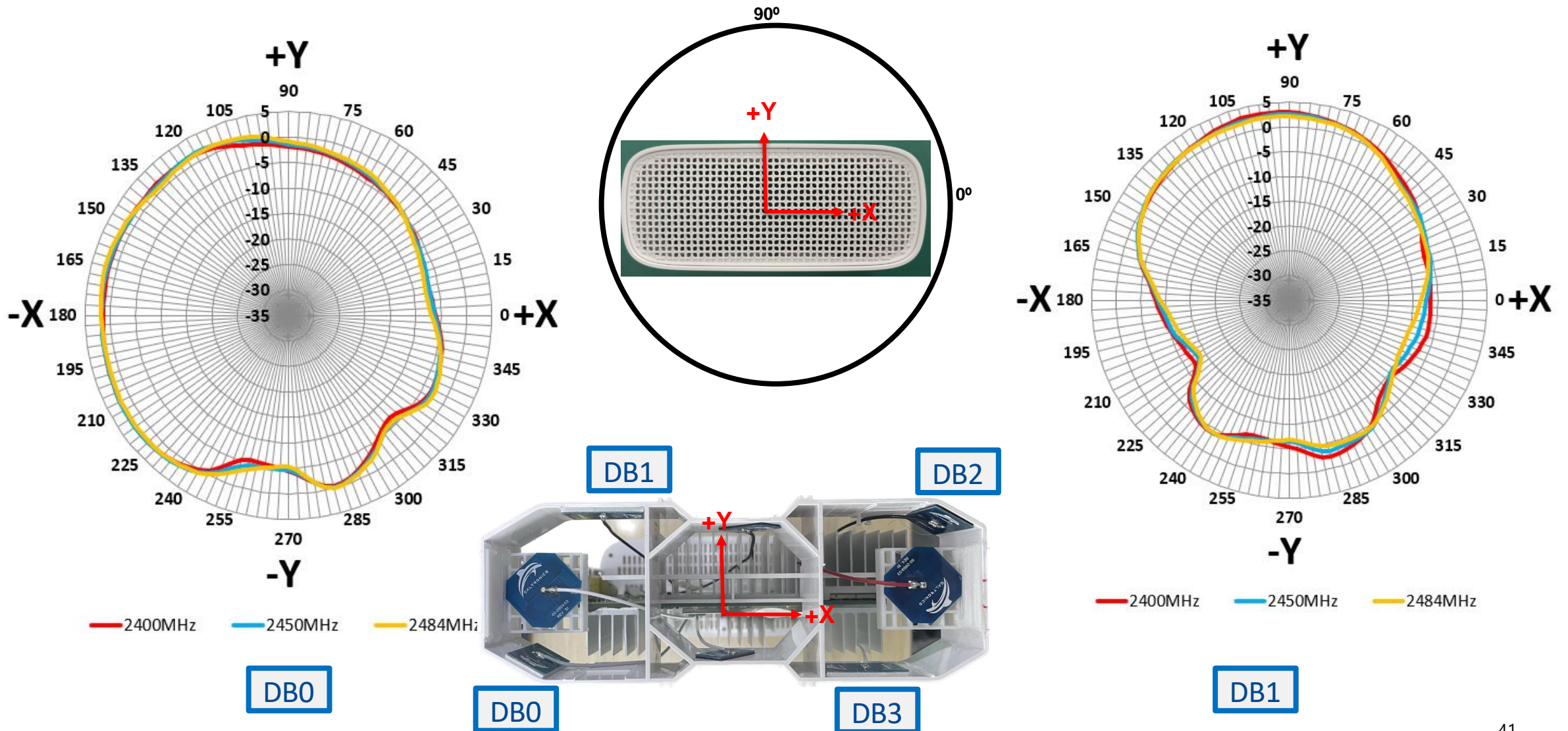
Isolation between DB and 6 GHz Antennas



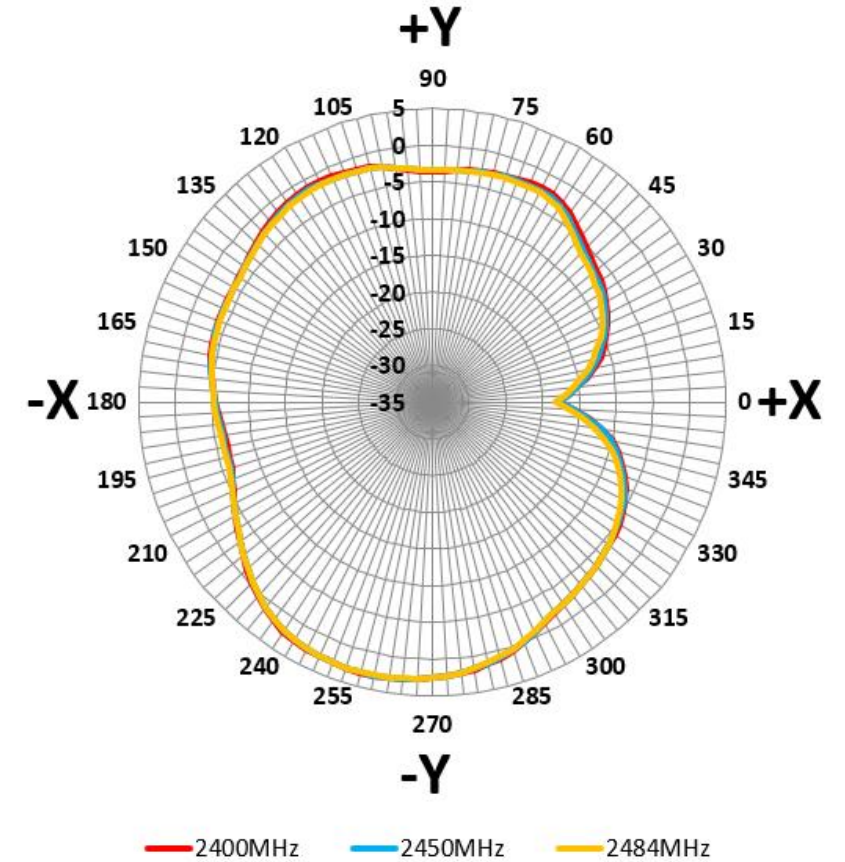
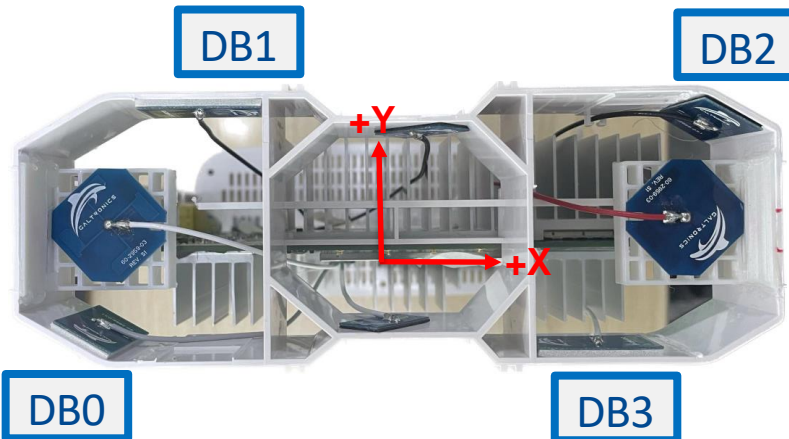
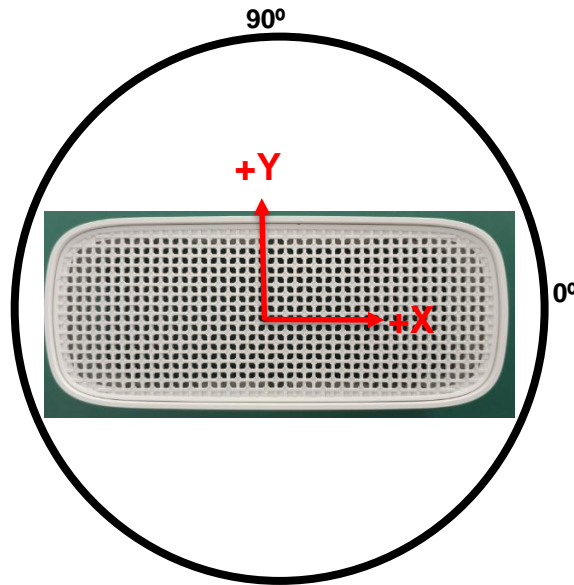
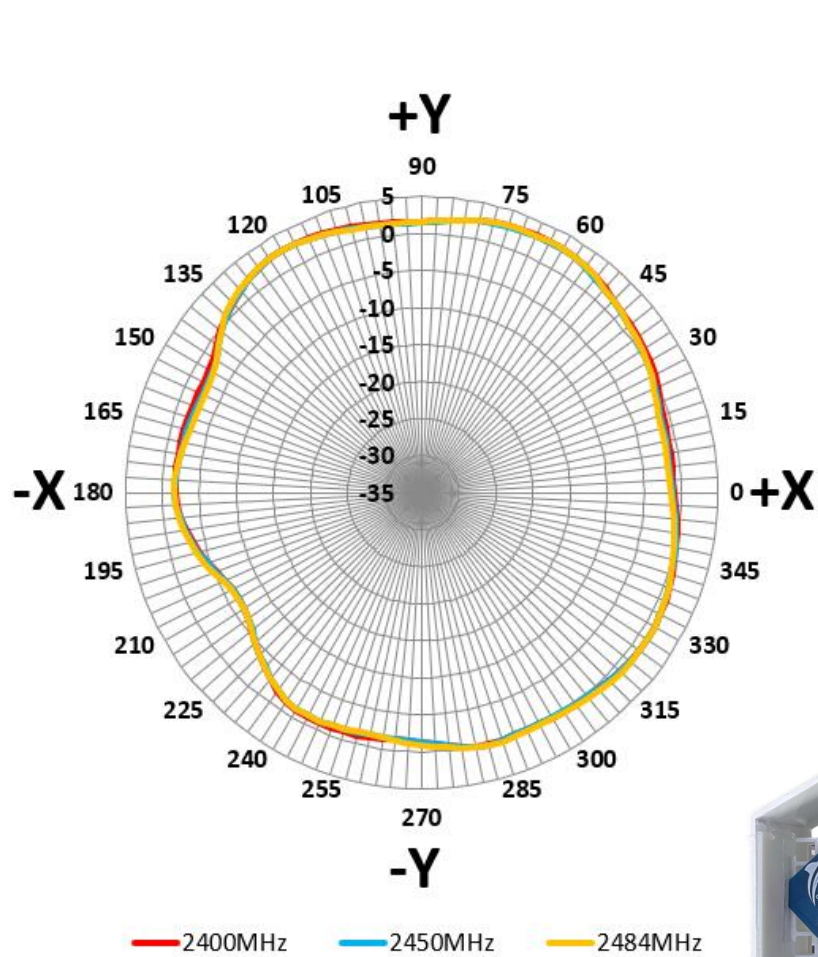
Port 1=DB2	Port 2=DB3
Port 3=6G2	Port 4=6G3



Azimuth Cut(XY)-Power Sum DB 2.45 GHz Antennas

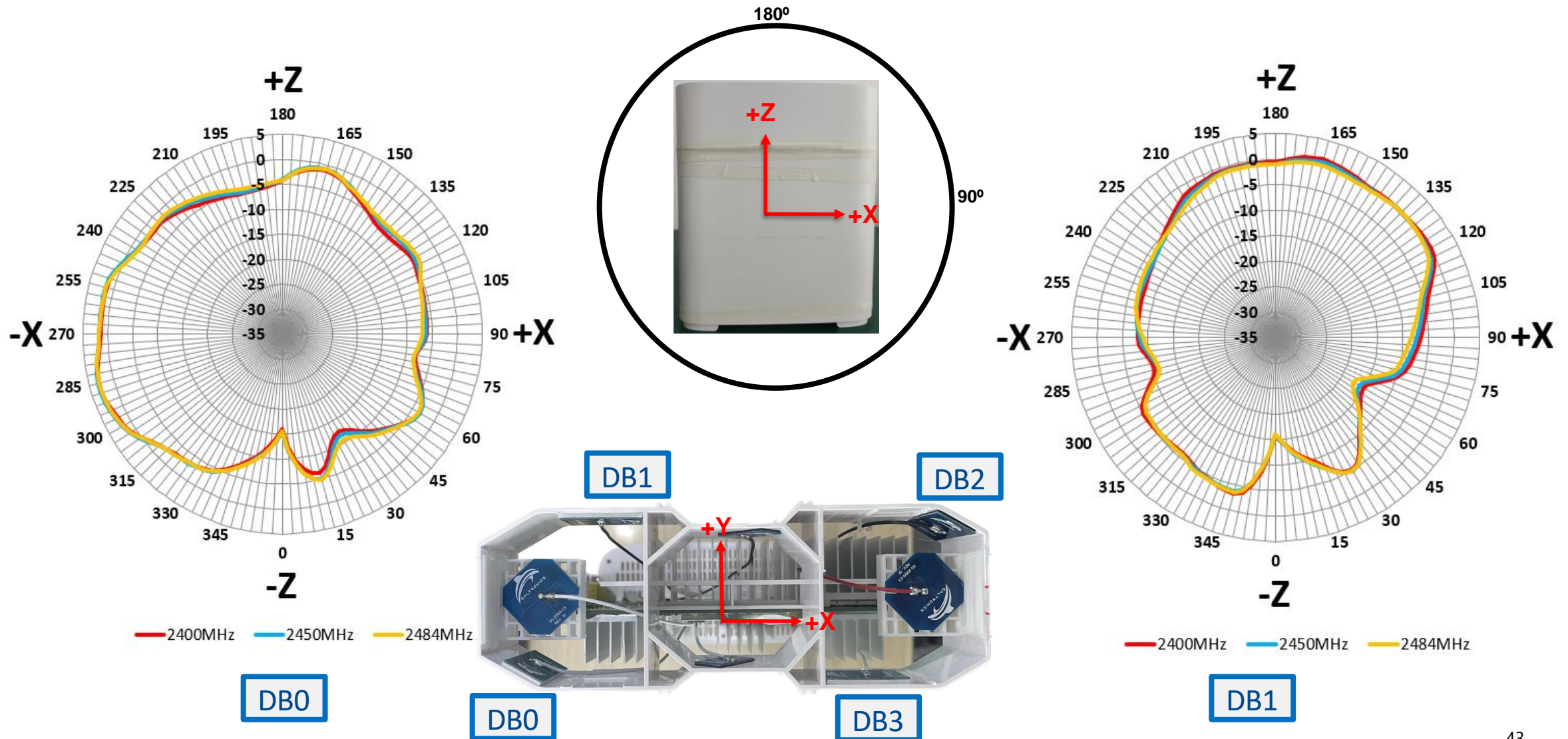


Azimuth Cut(XY)-Power Sum DB 2.45 GHz Antennas

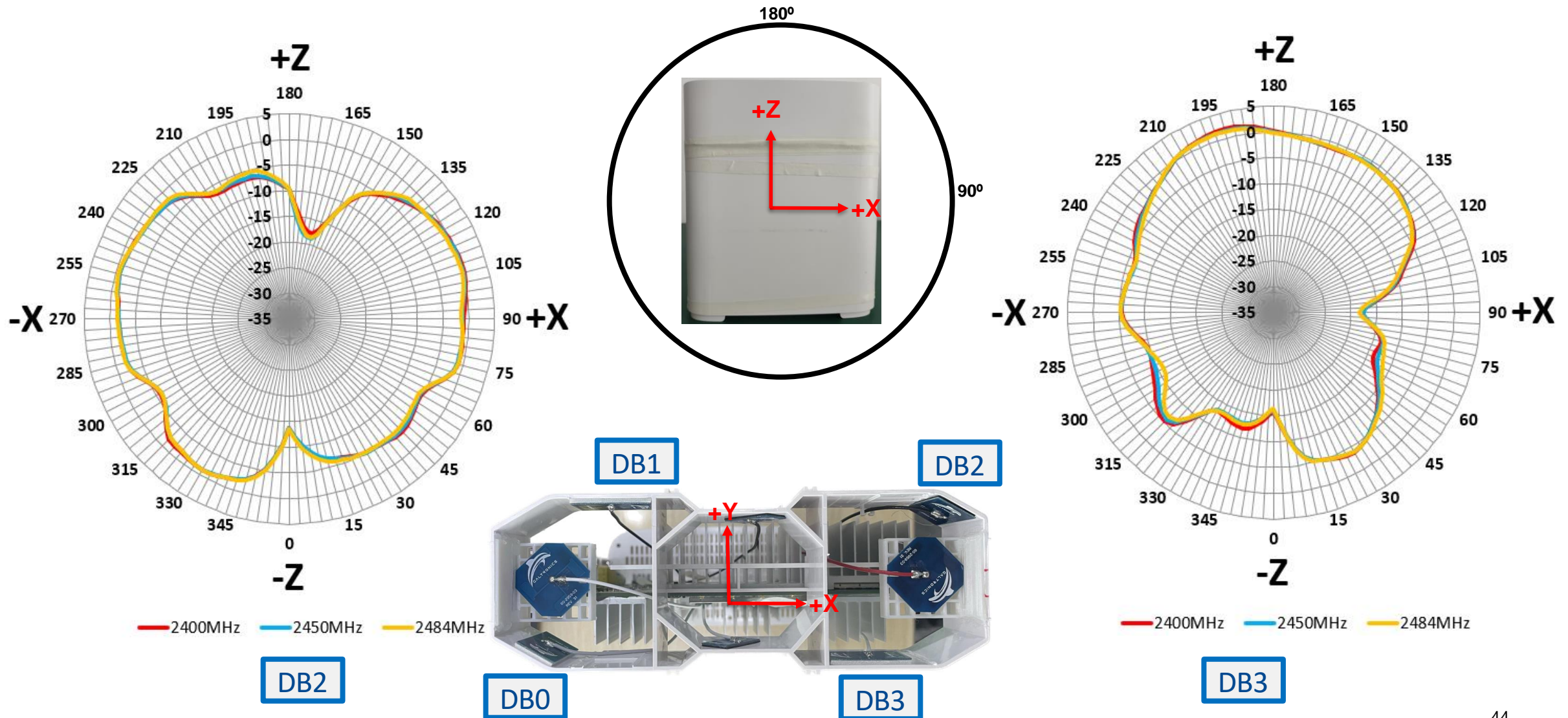


DB3

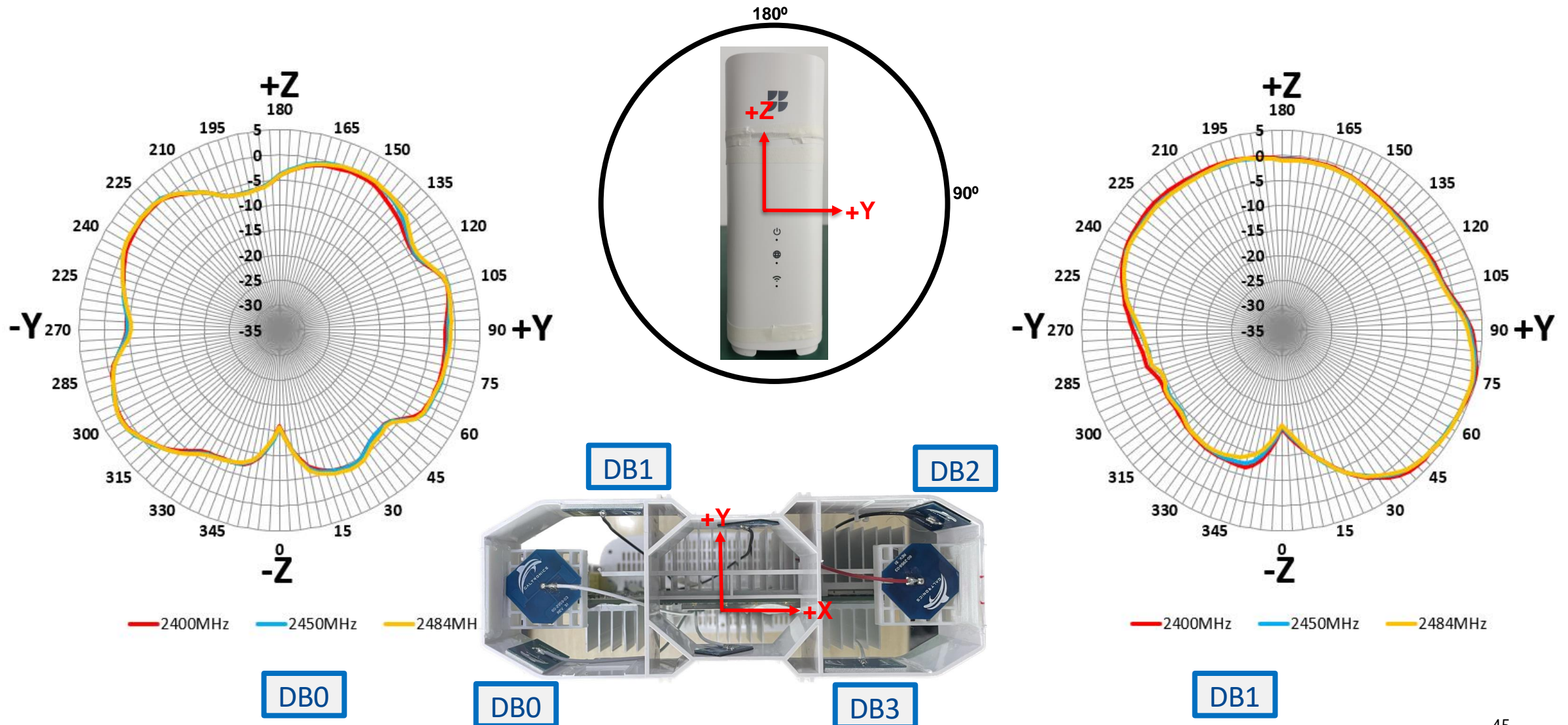
Elevation Cut(ZX)-Power Sum DB 2.45 GHz Antennas



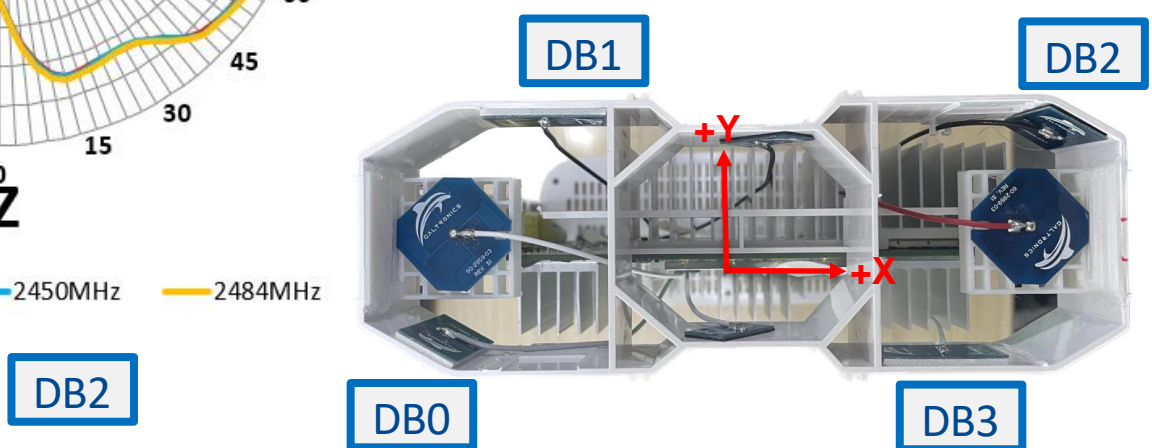
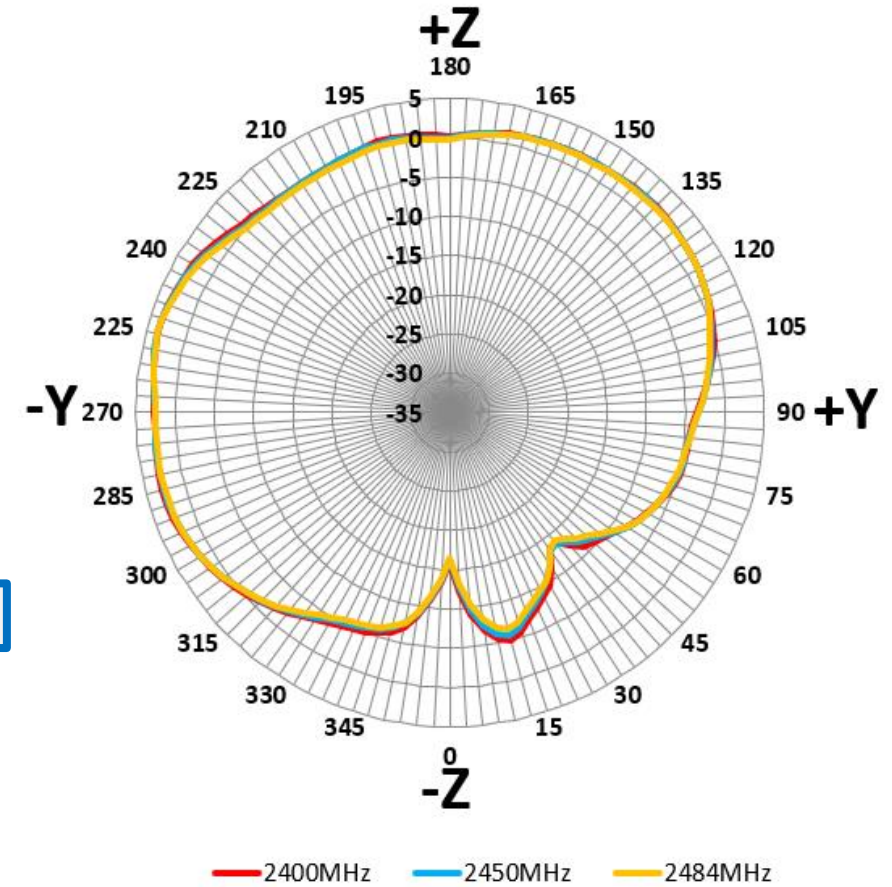
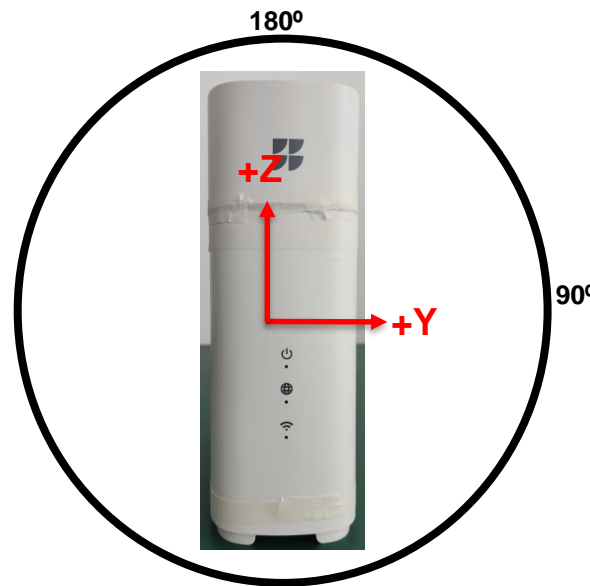
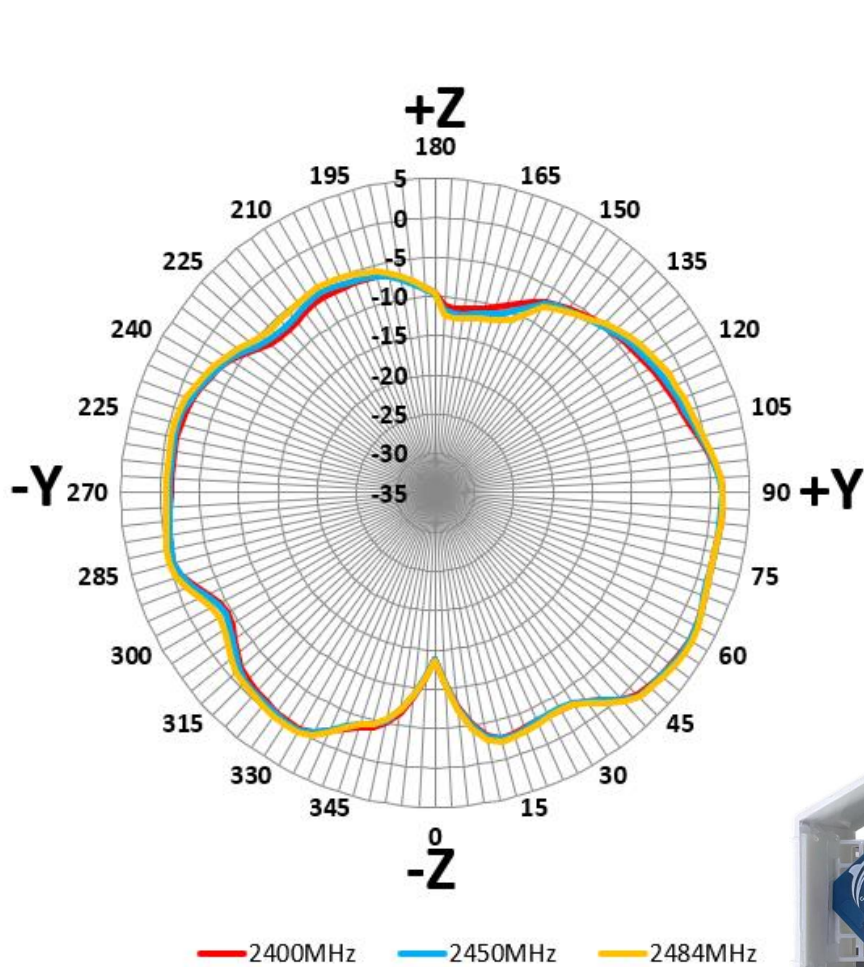
Elevation Cut(ZX)-Power Sum DB 2.45 GHz Antennas



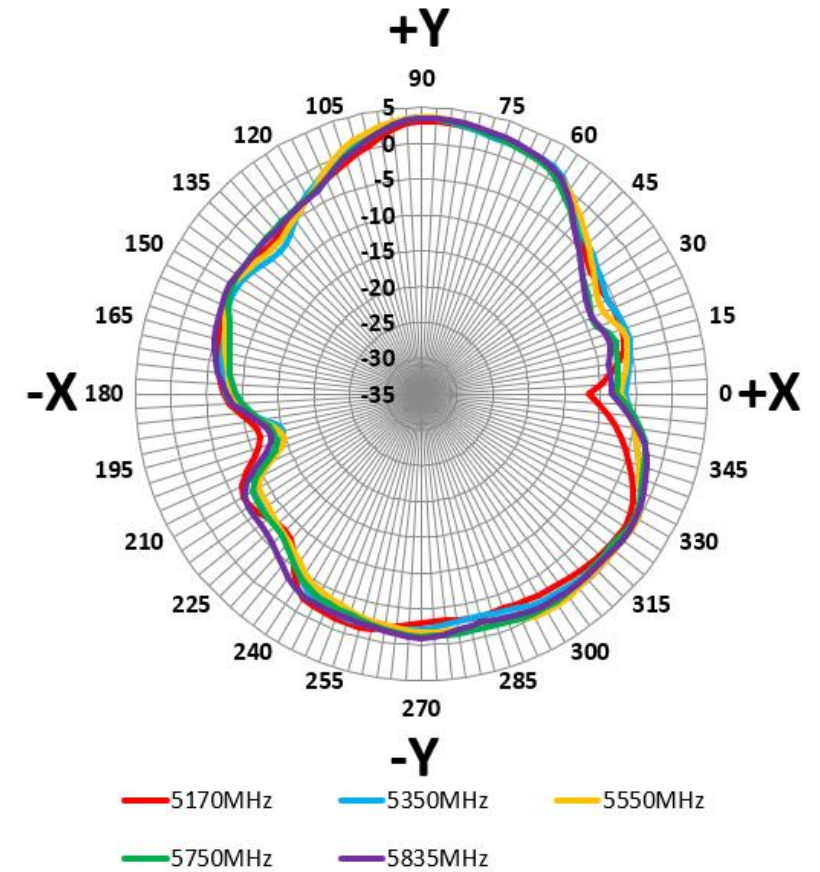
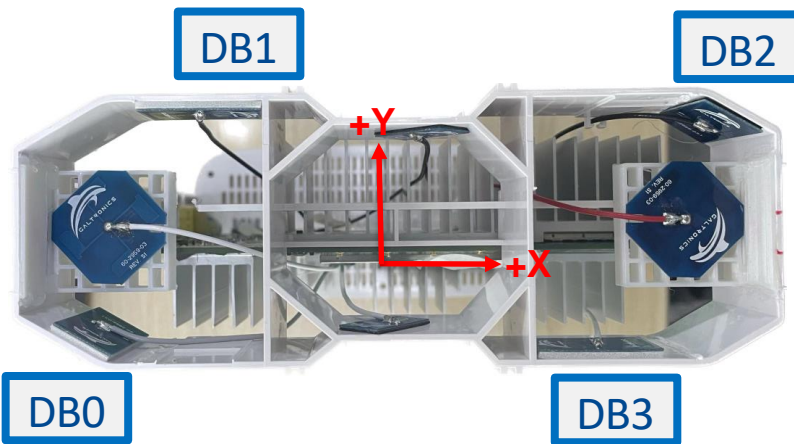
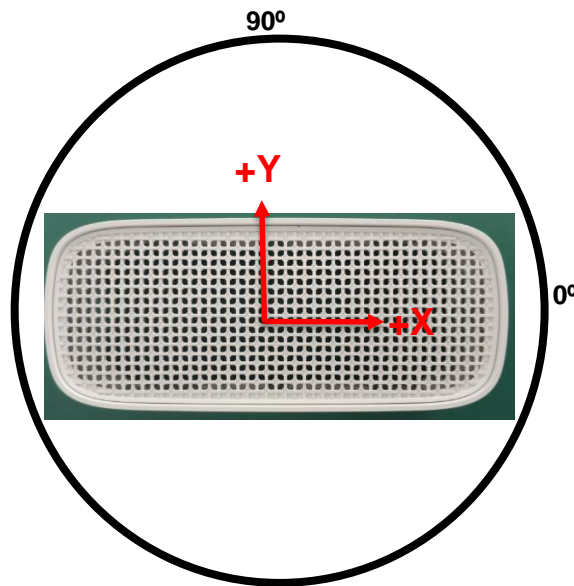
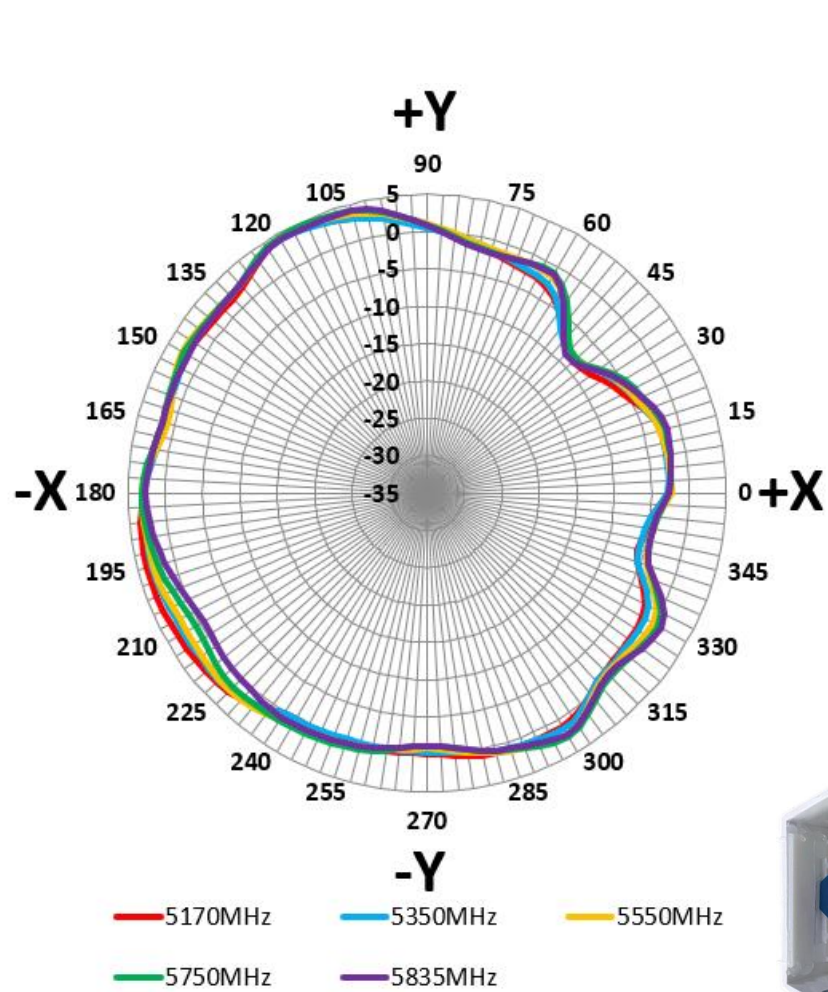
Elevation Cut(ZY)-Power Sum DB 2.45 GHz Antennas



Elevation Cut(ZY)-Power Sum DB 2.45 GHz Antennas

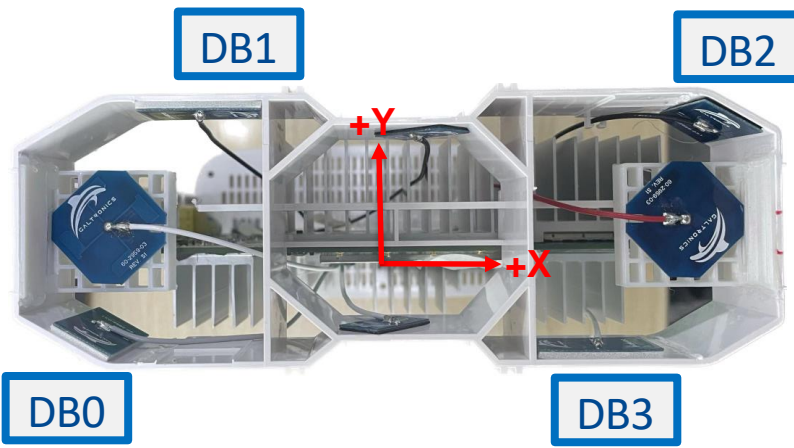
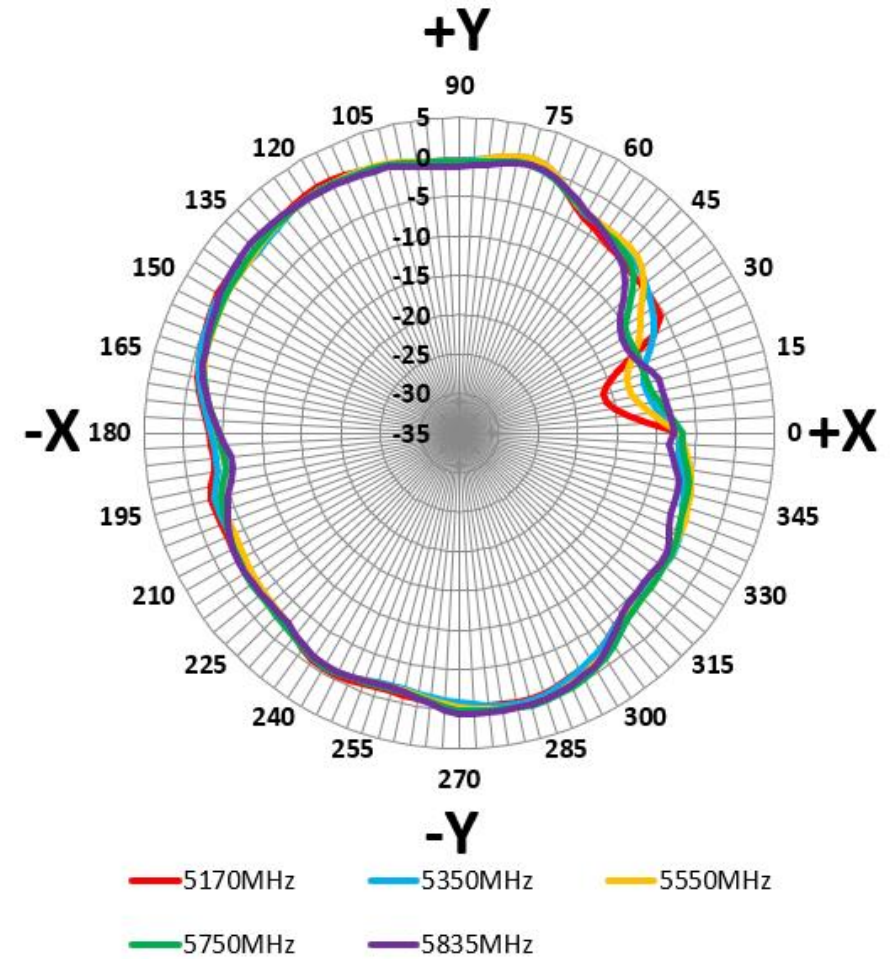
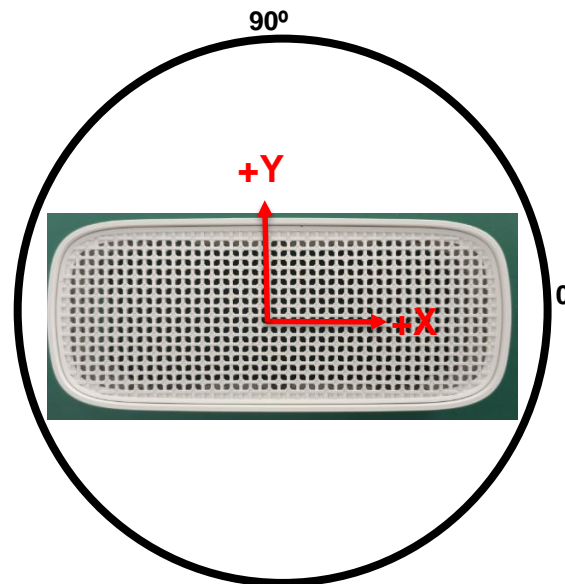
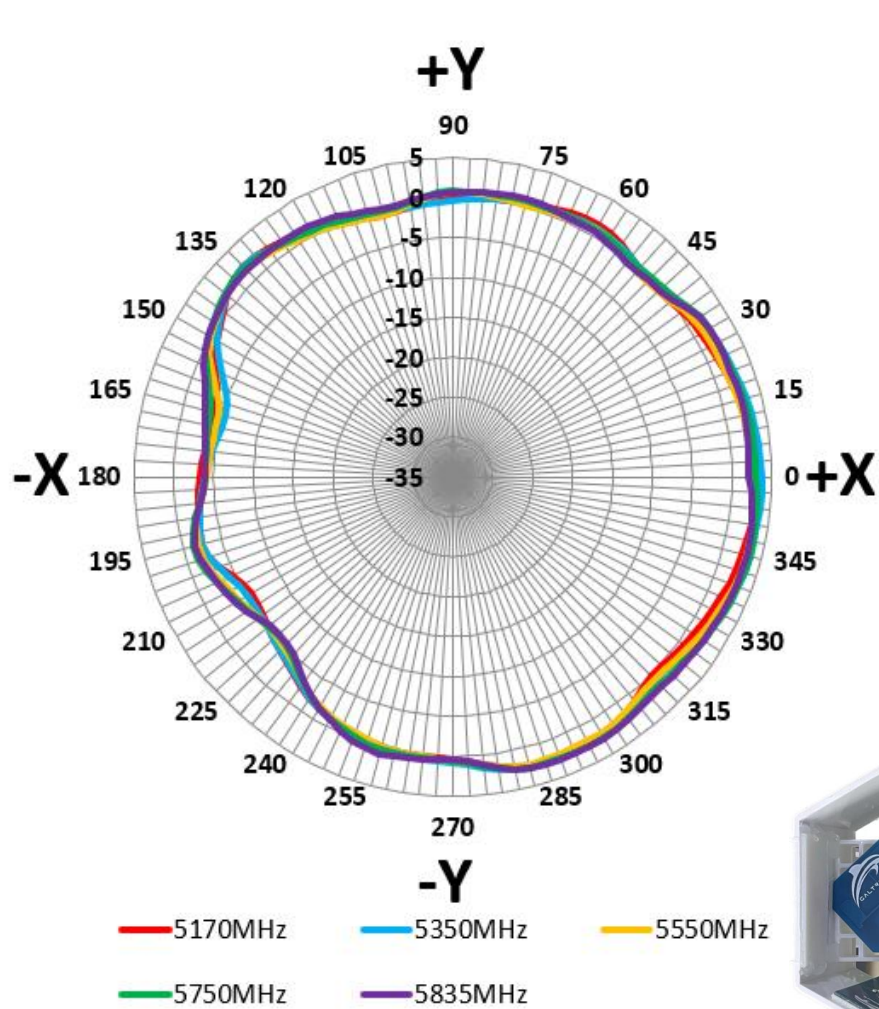


Azimuth Cut(XY)-Power Sum DB 5 GHz Antennas

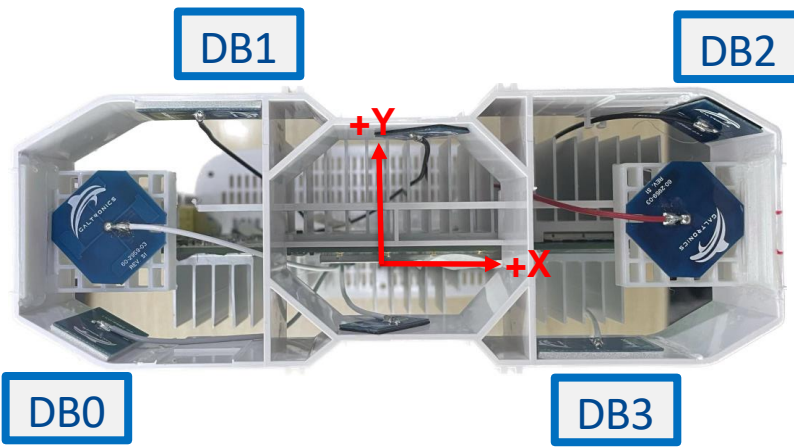
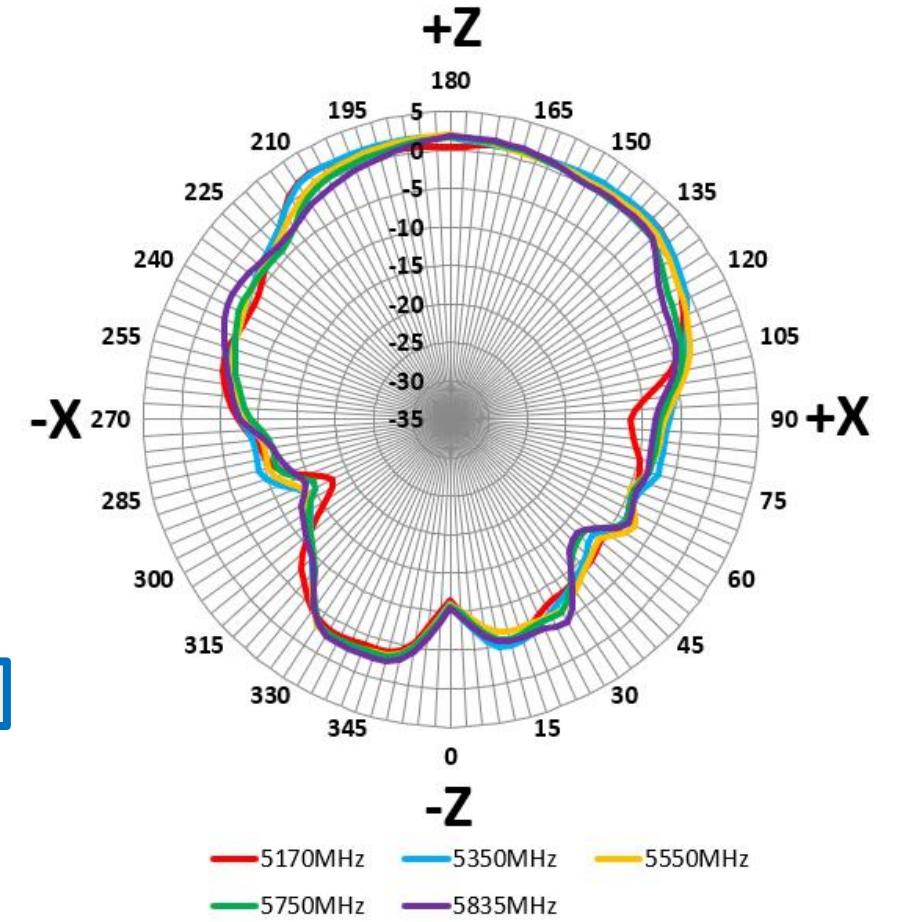
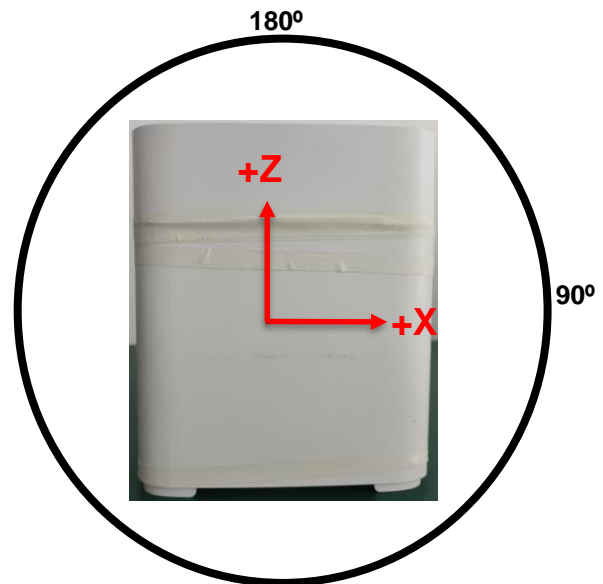
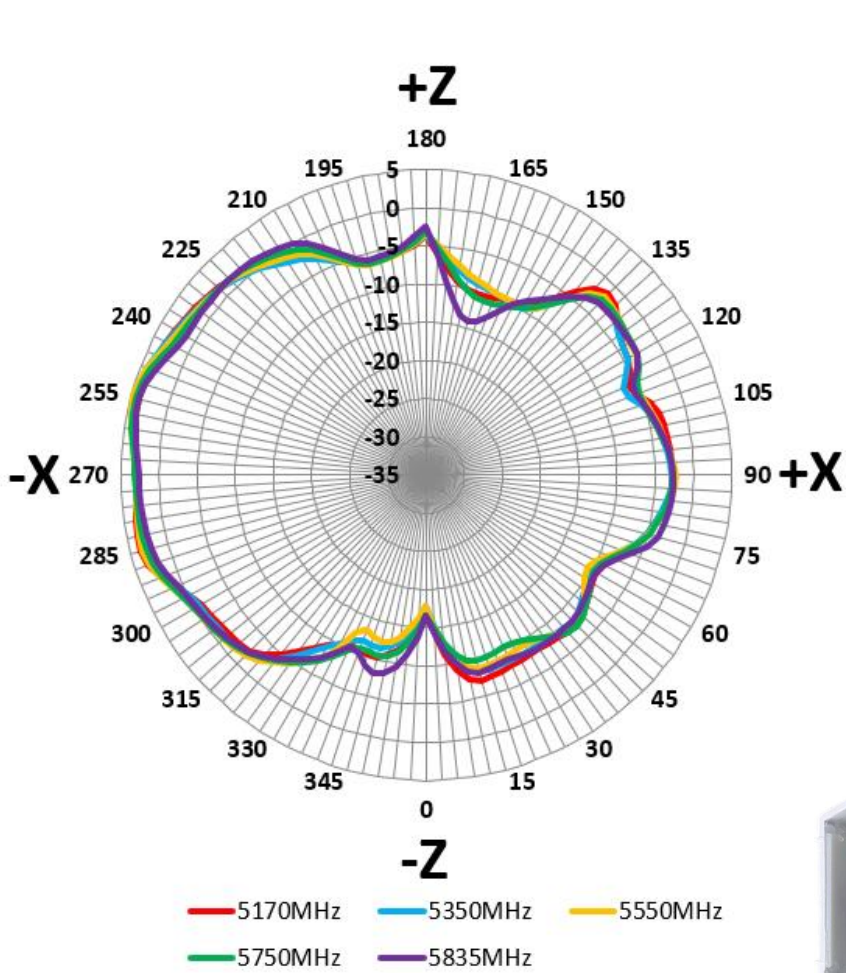


DB1

Azimuth Cut(XY)-Power Sum DB 5 GHz Antennas



Elevation Cut(ZX)-Power Sum DB 5 GHz Antennas



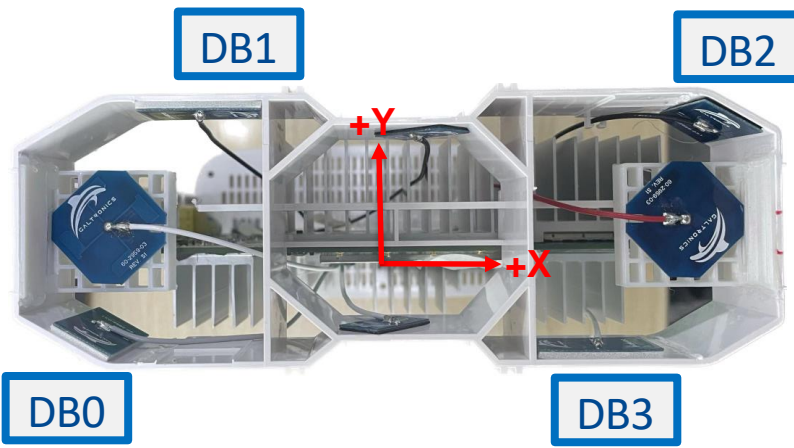
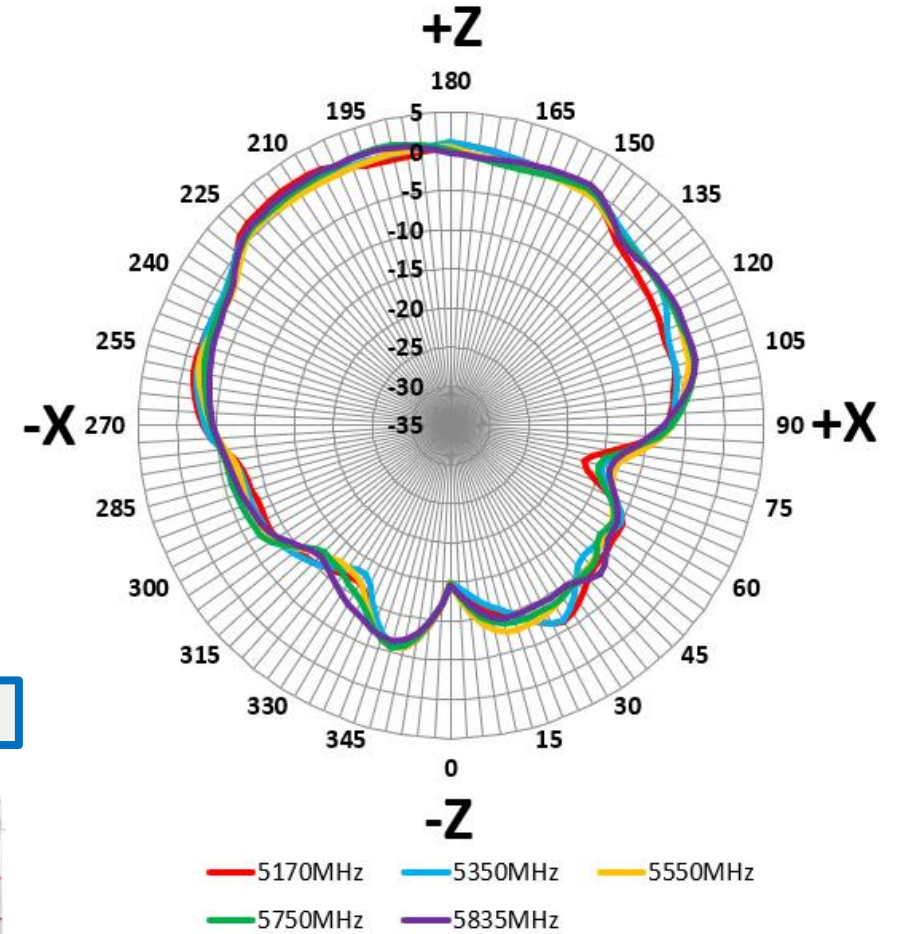
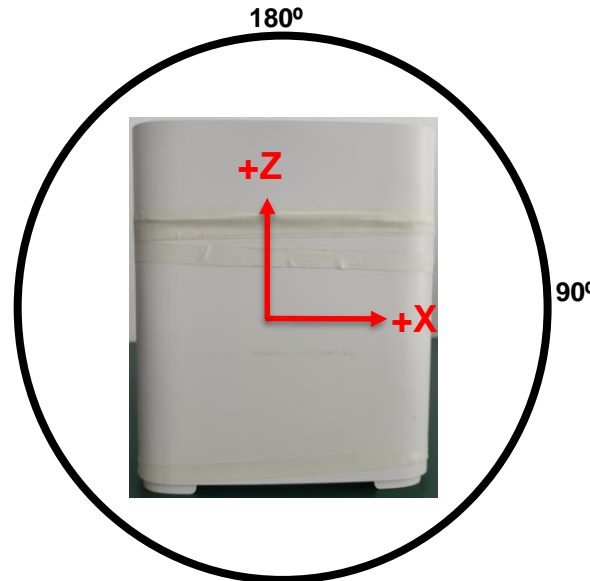
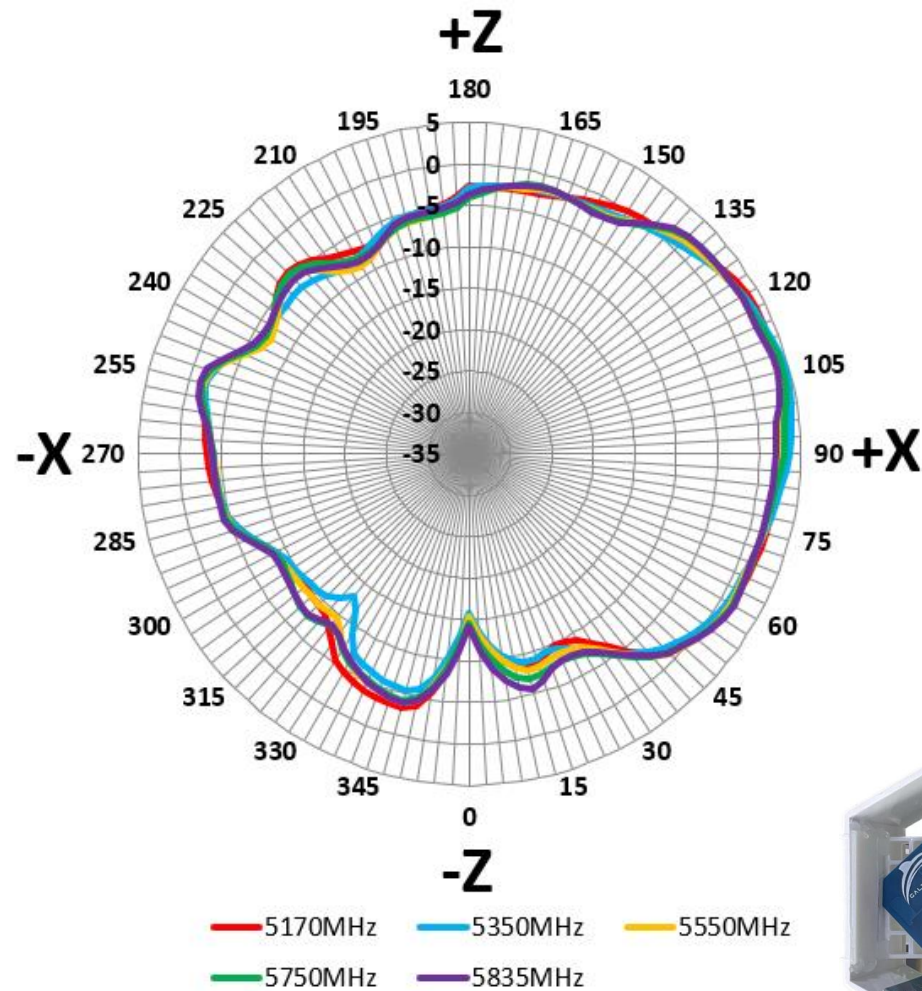
DB0

DB0

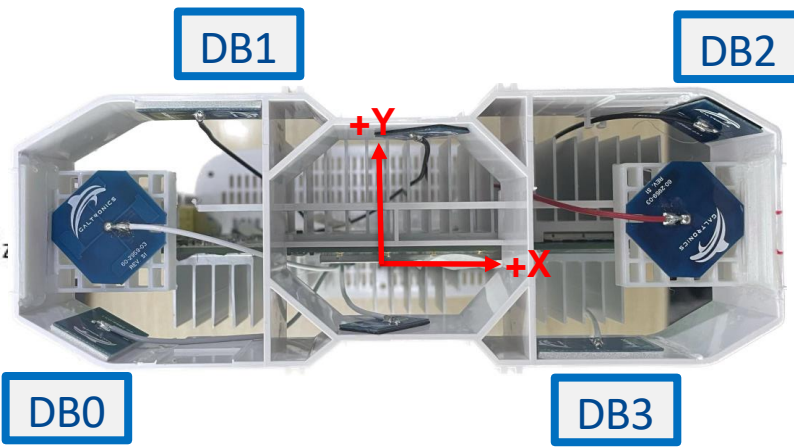
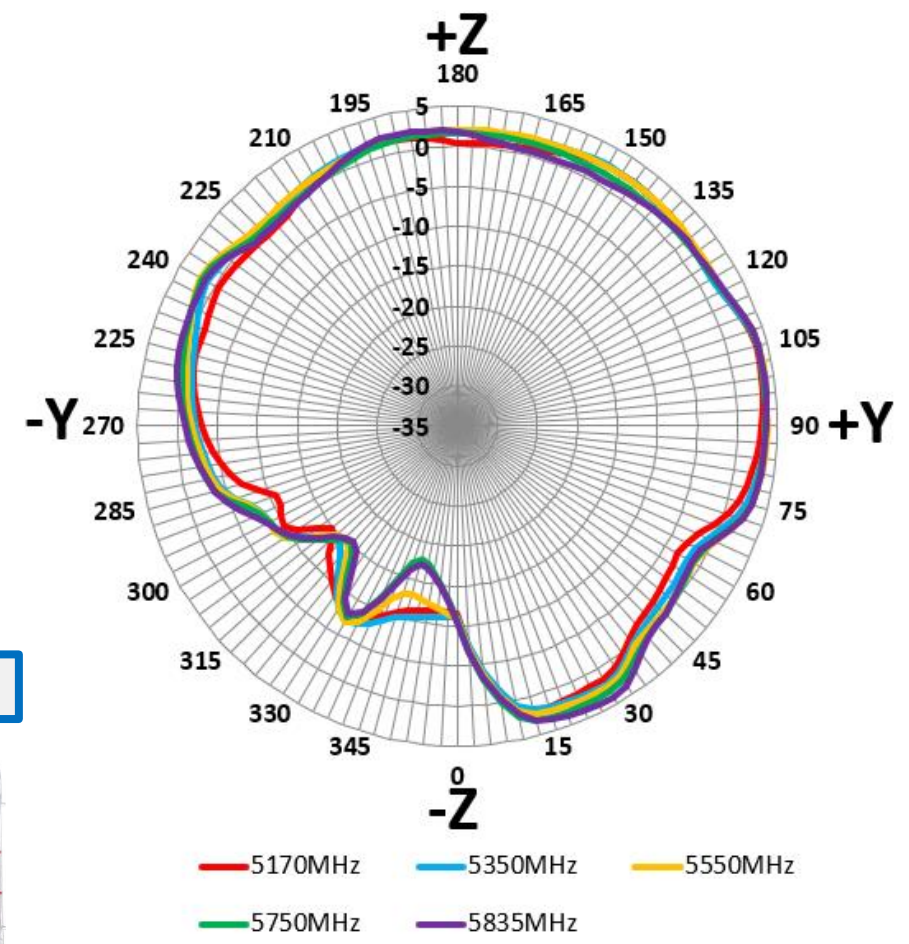
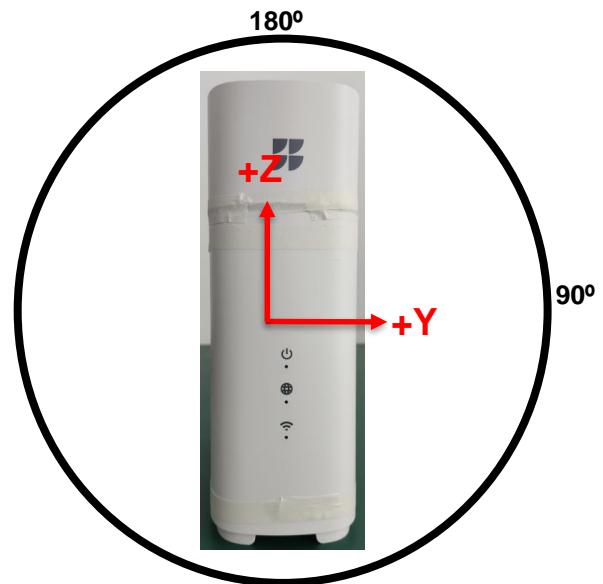
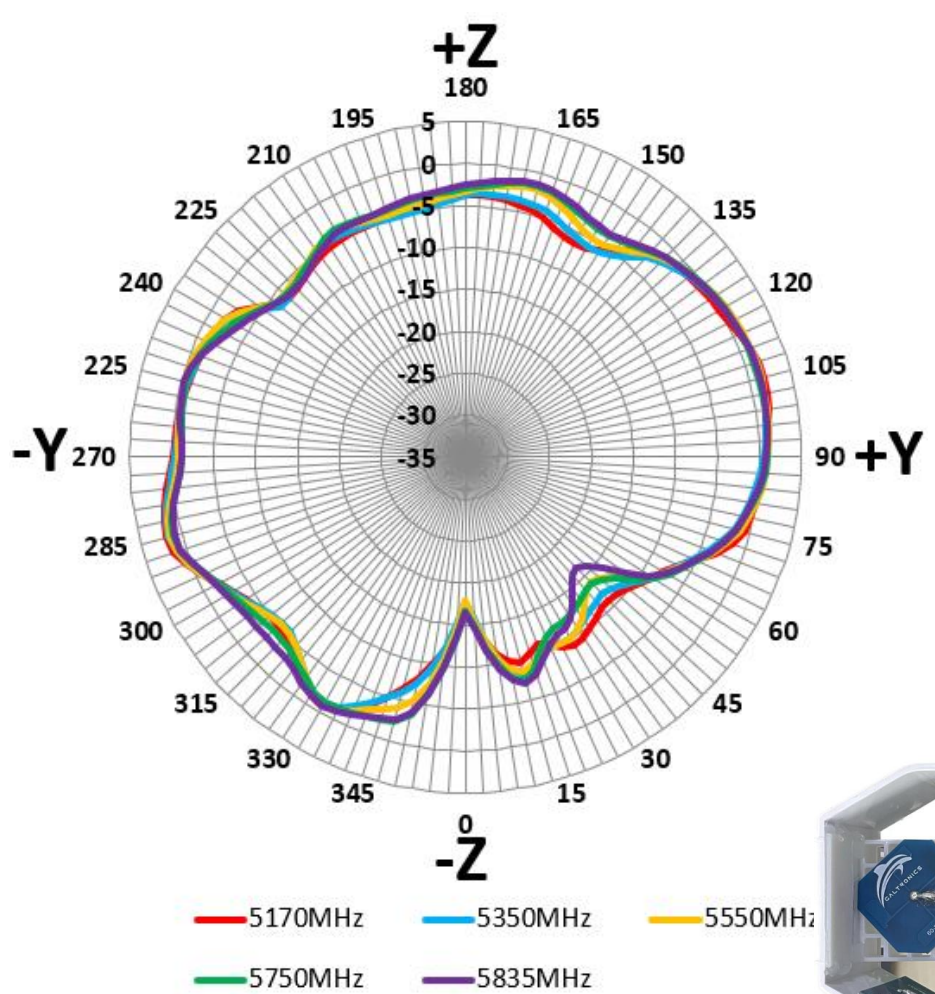
DB3

DB1

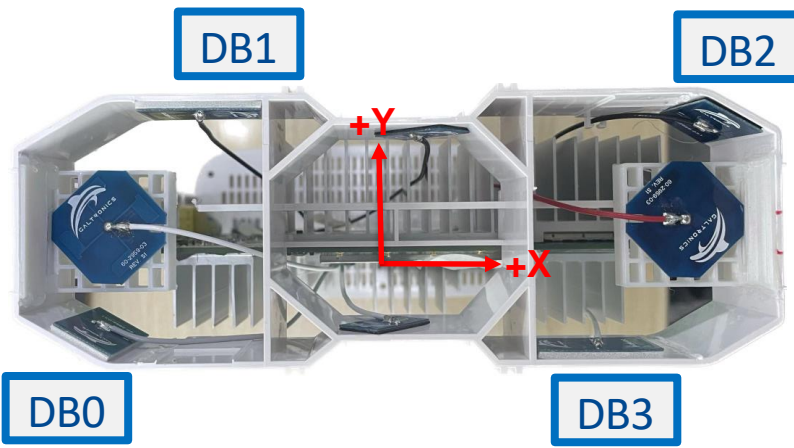
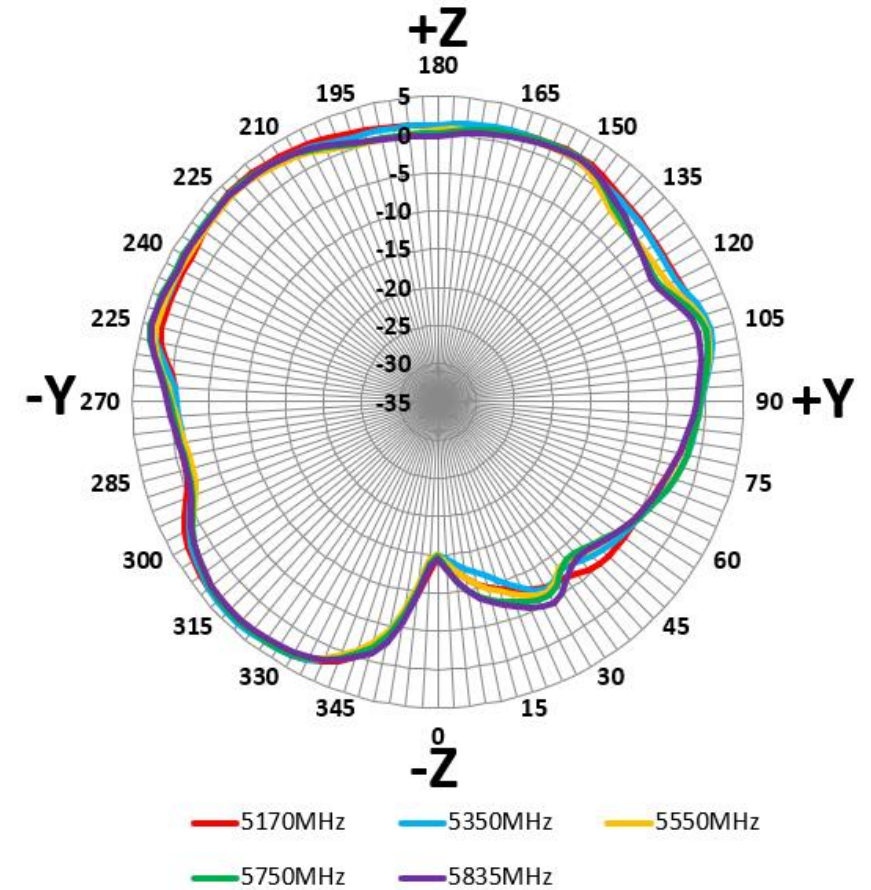
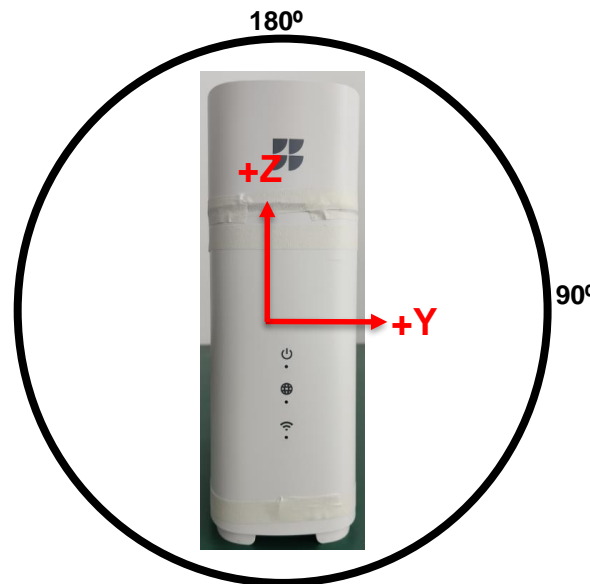
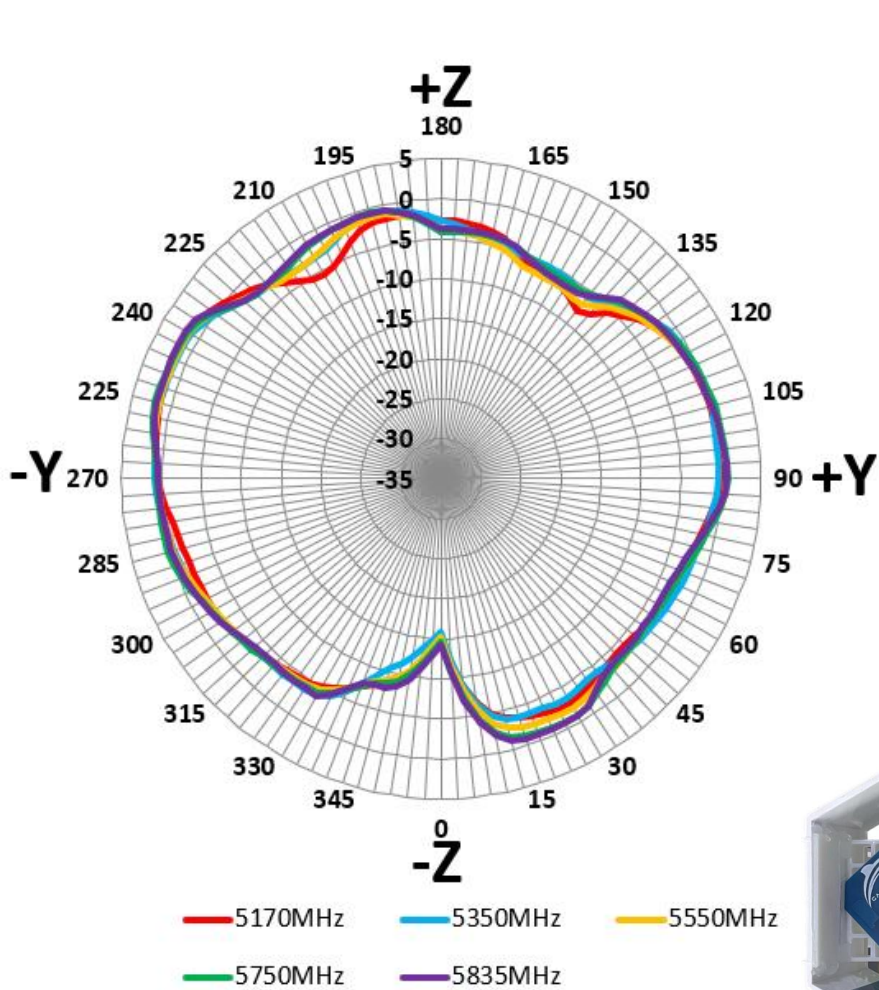
Elevation Cut(ZX)-Power Sum DB 5 GHz Antennas



Elevation Cut(ZY)-Power Sum DB 5 GHz Antennas



Elevation Cut(ZY)-Power Sum DB 5 GHz Antennas



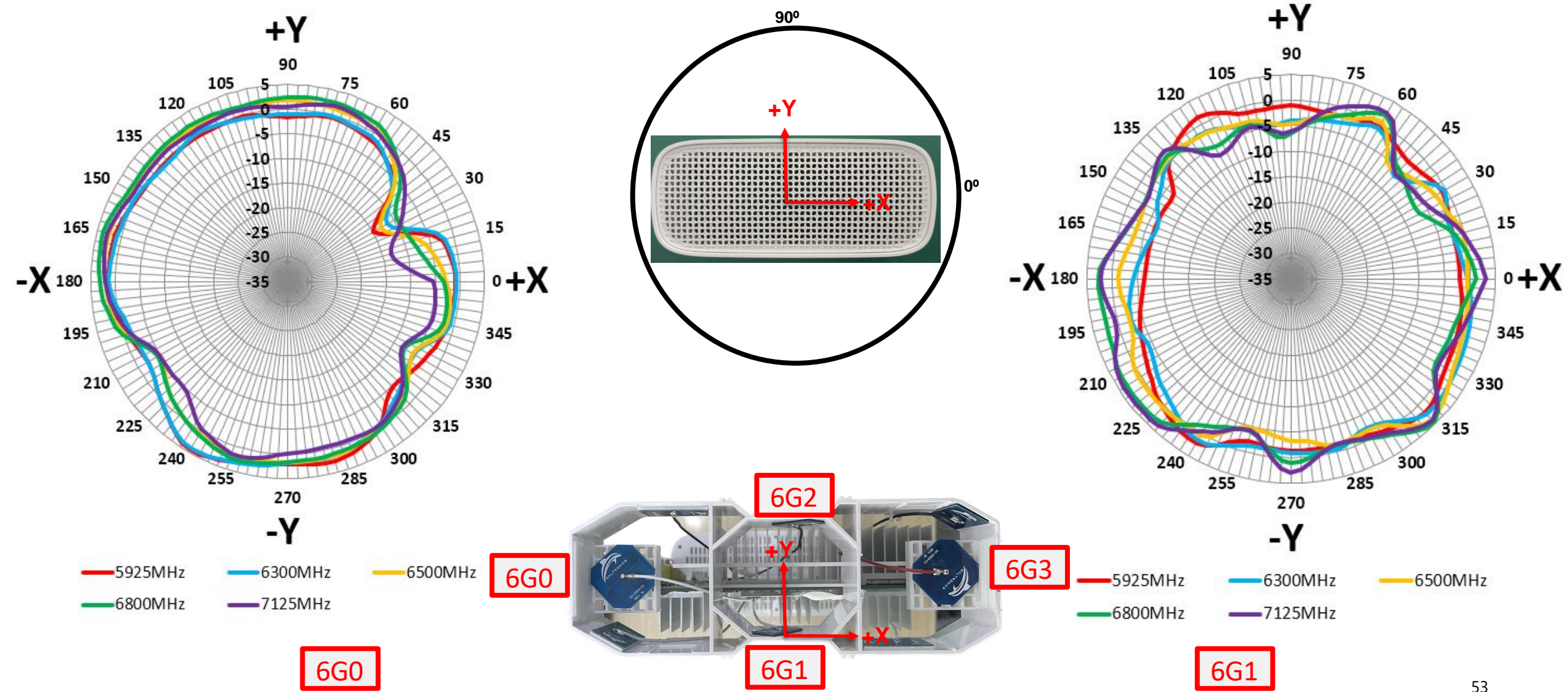
DB2

DB0

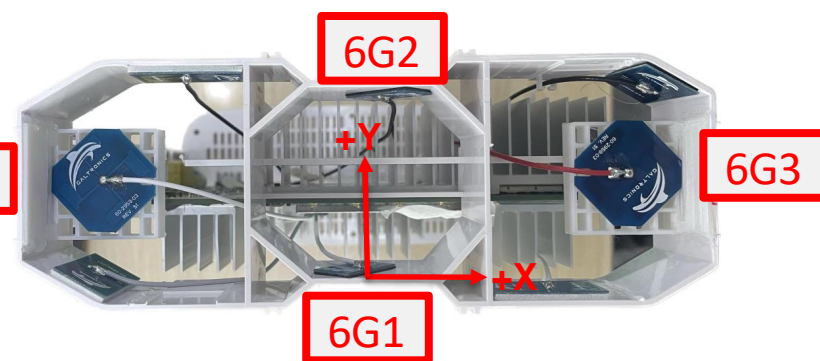
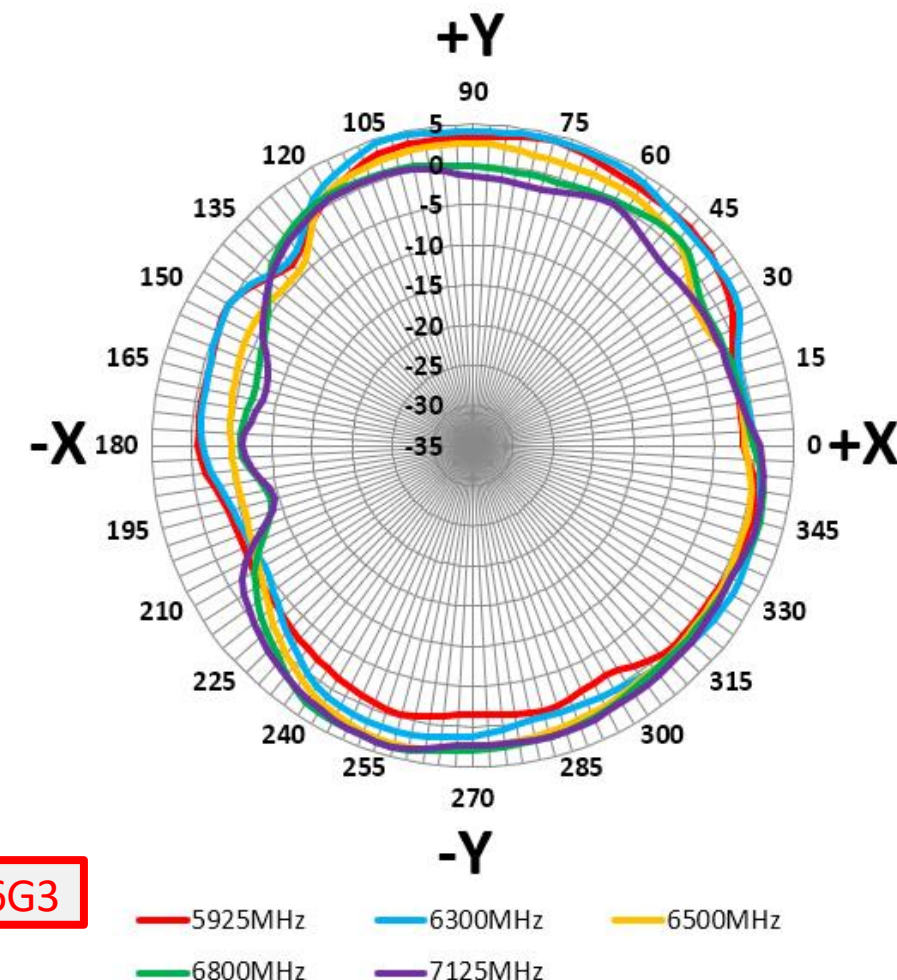
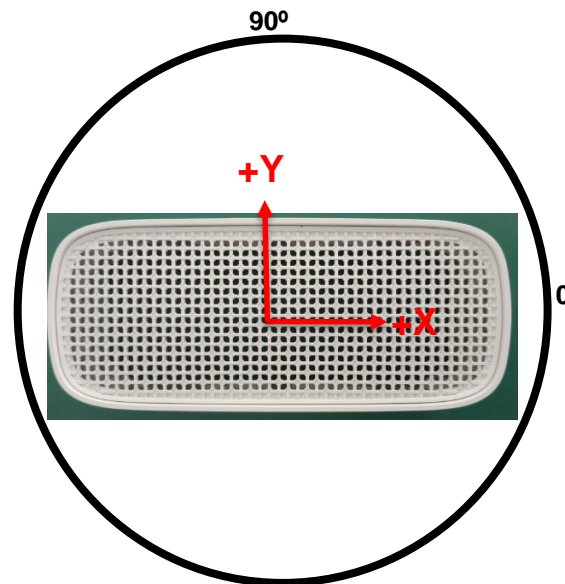
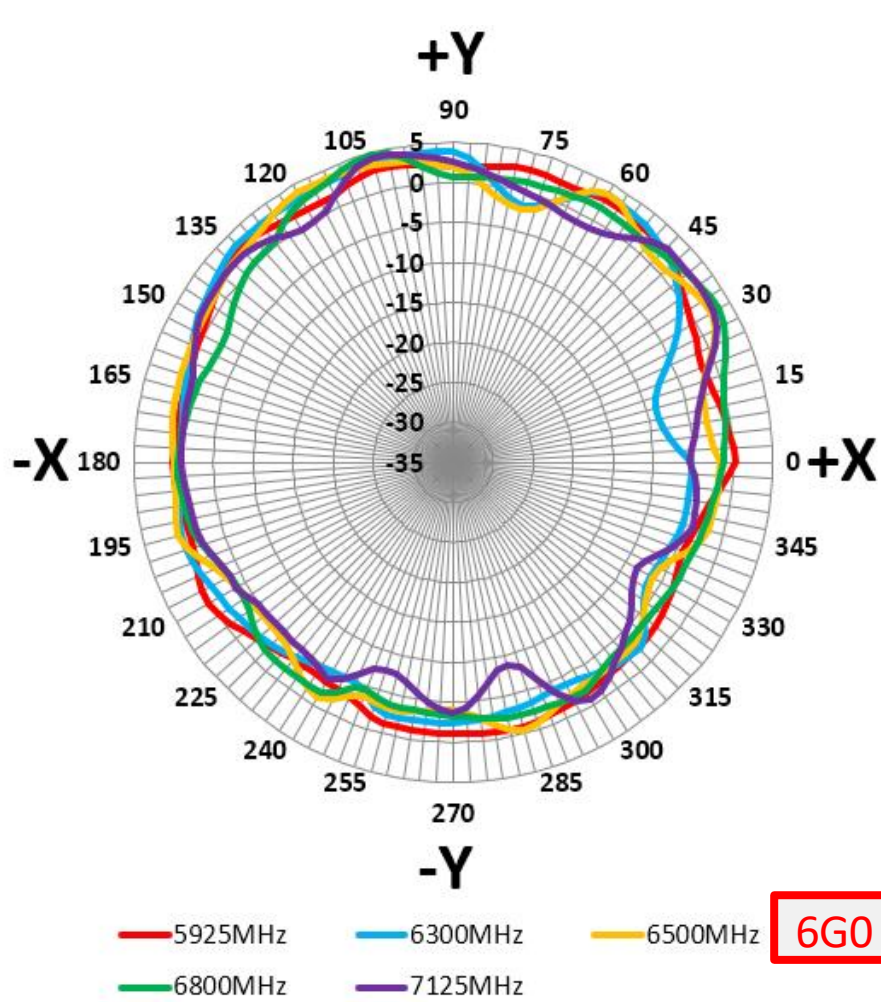
DB3

DB3

Azimuth Cut(XY)-Power Sum 6 GHz Antennas



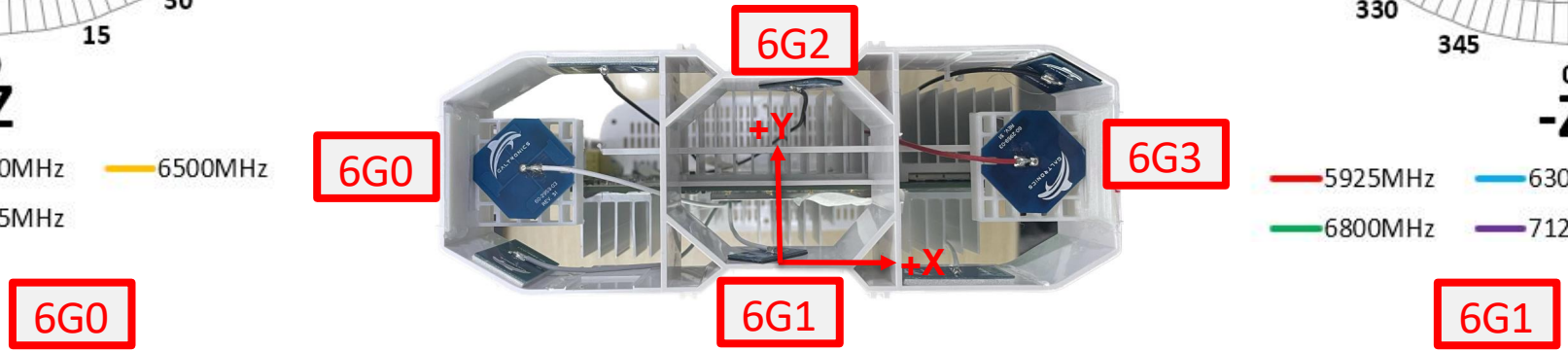
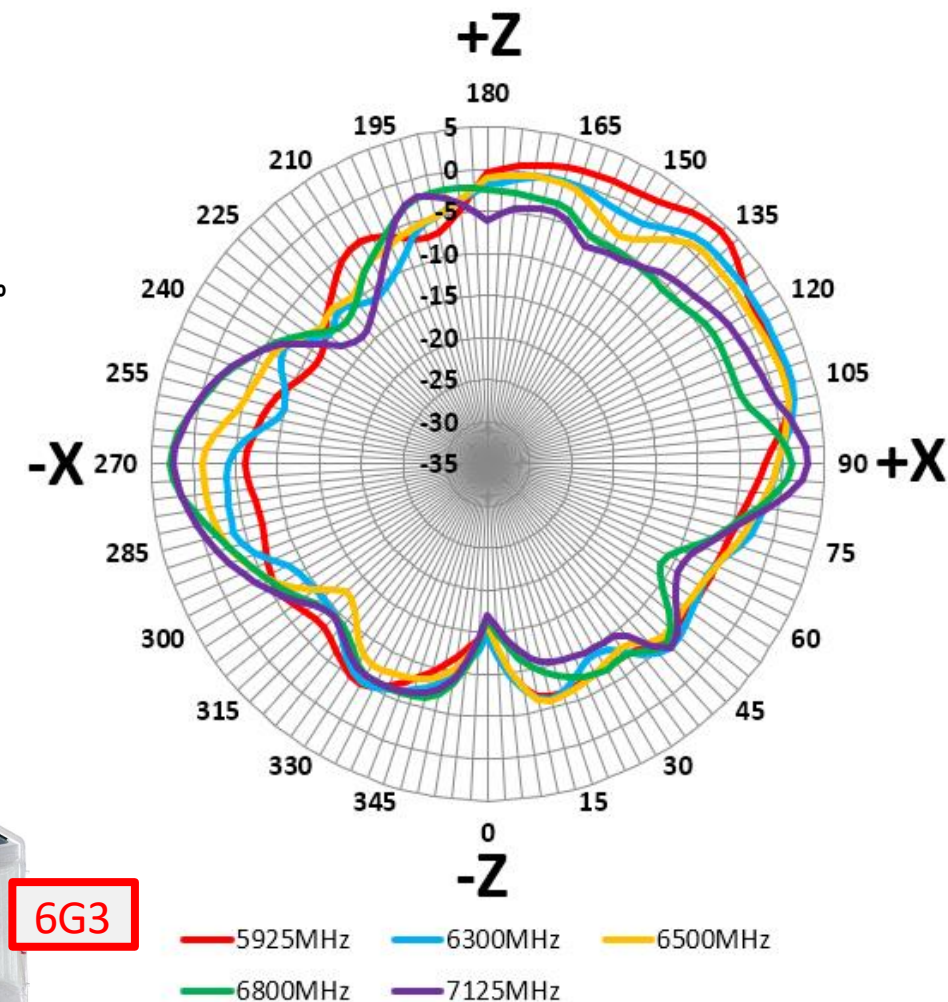
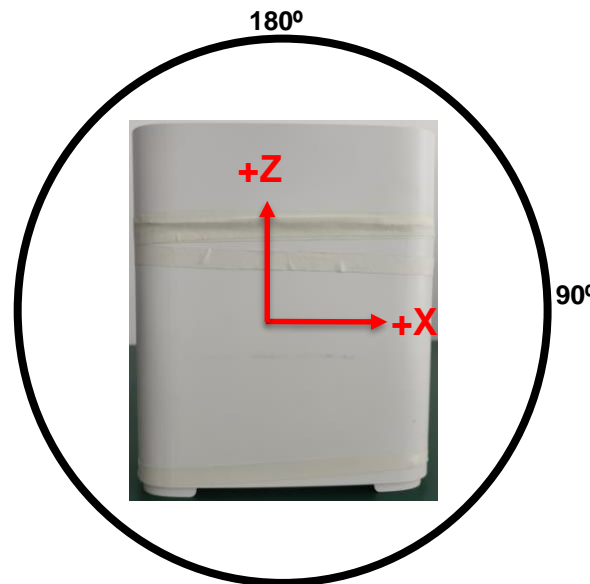
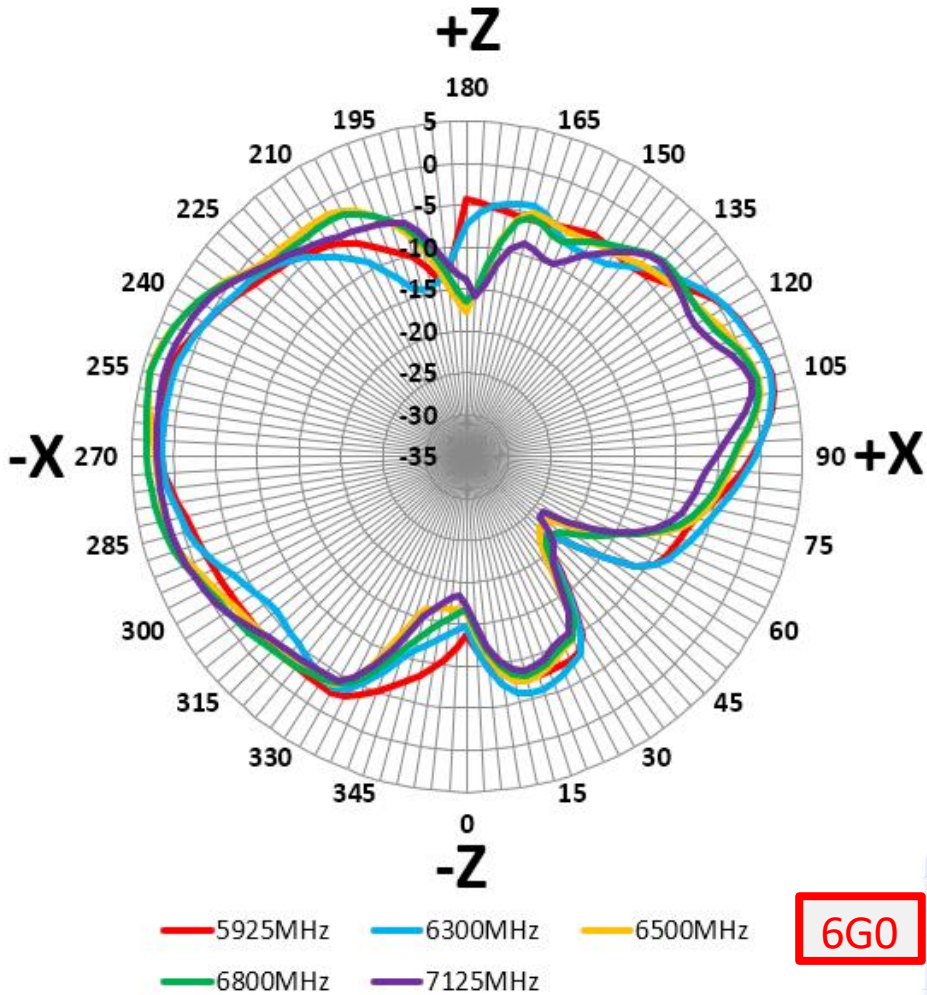
Azimuth Cut(XY)-Power Sum 6 GHz Antennas



6G2

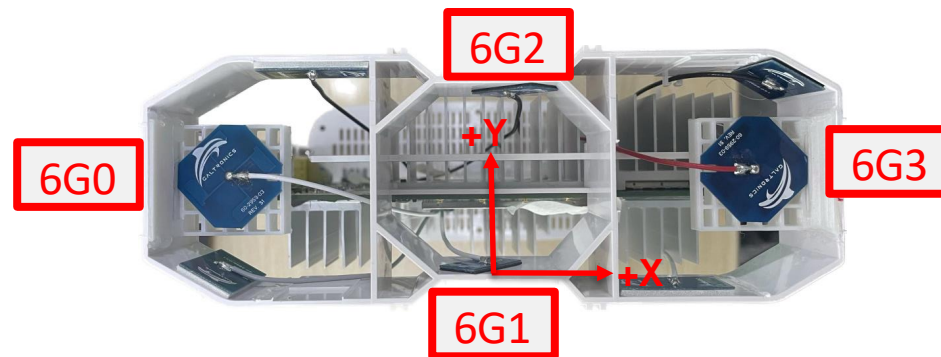
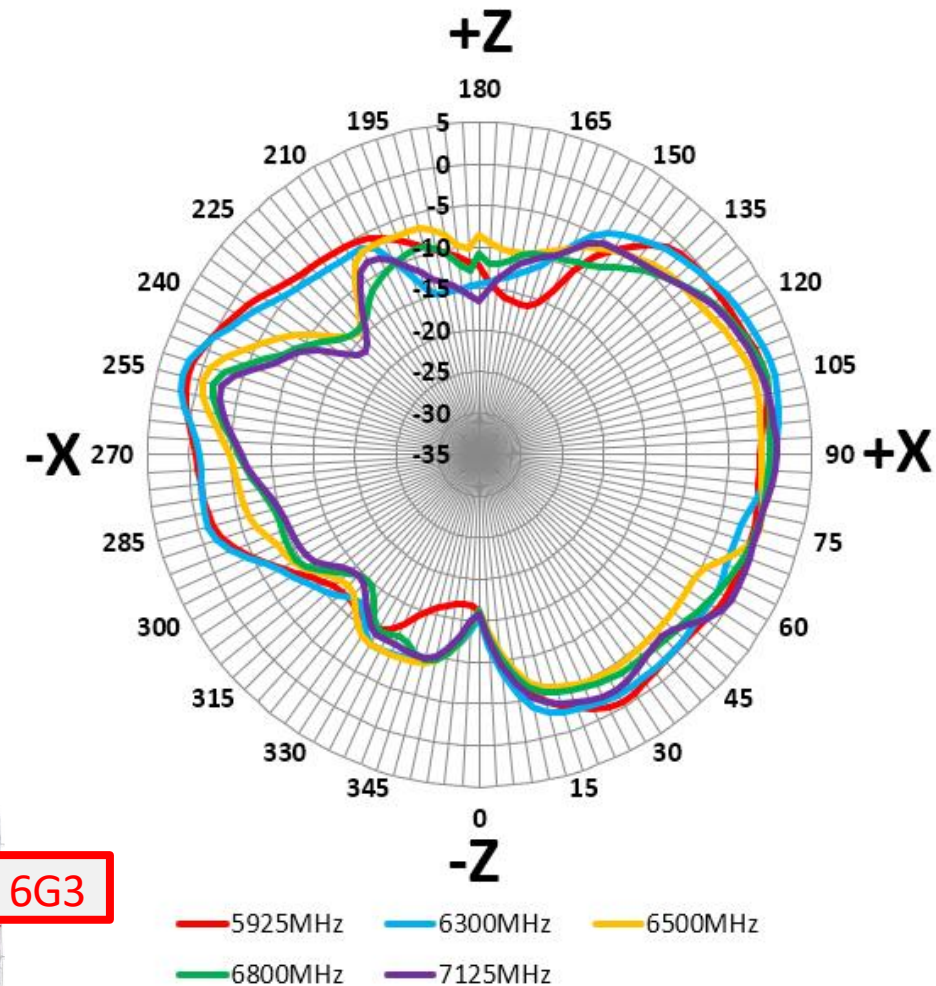
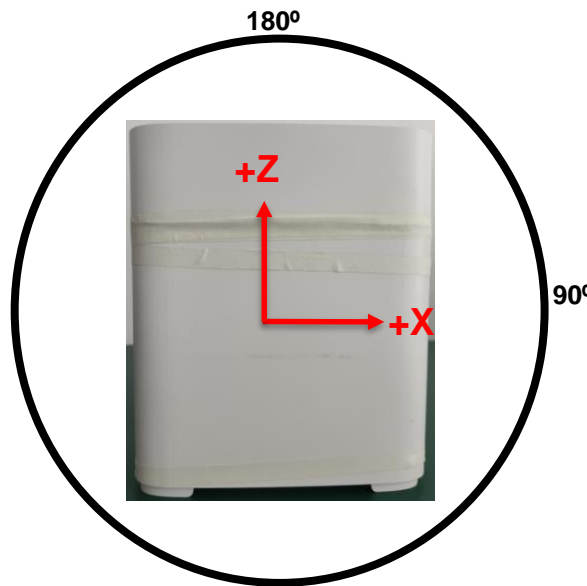
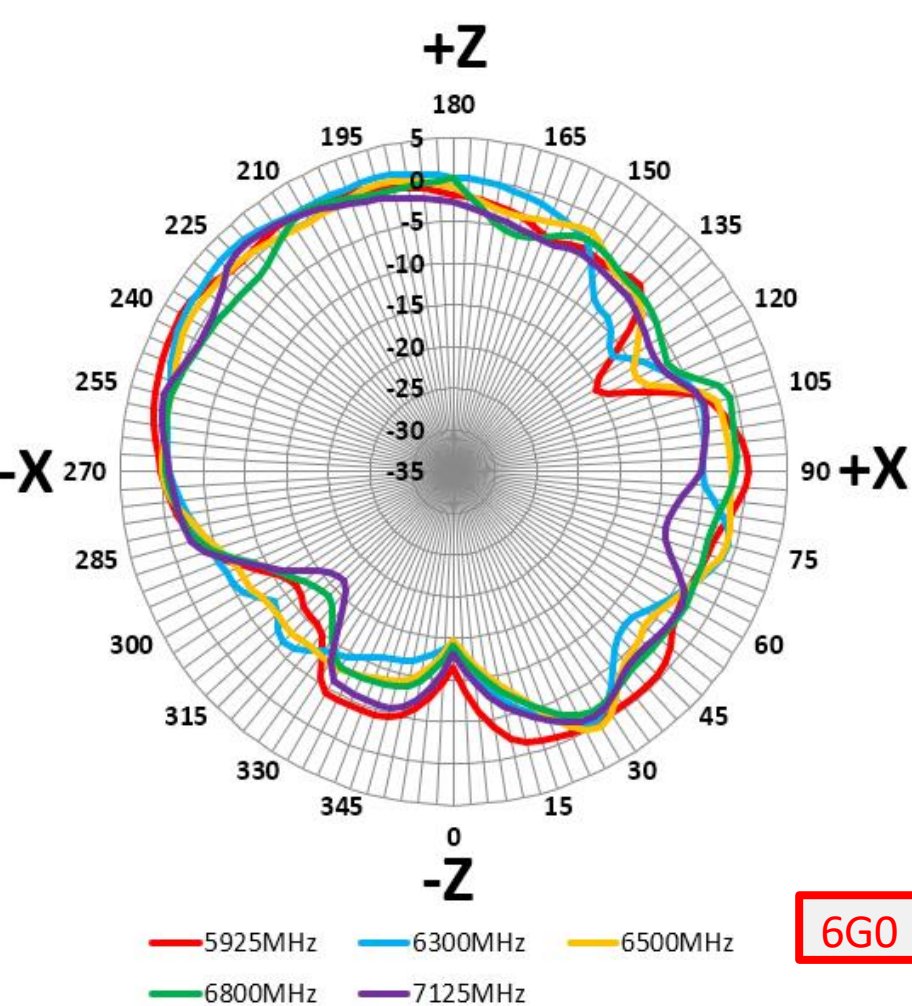
6G3

Elevation Cut(ZX)-Power Sum 6 GHz Antennas



Elevation Cut(ZX)-Power Sum

6 GHz Antennas

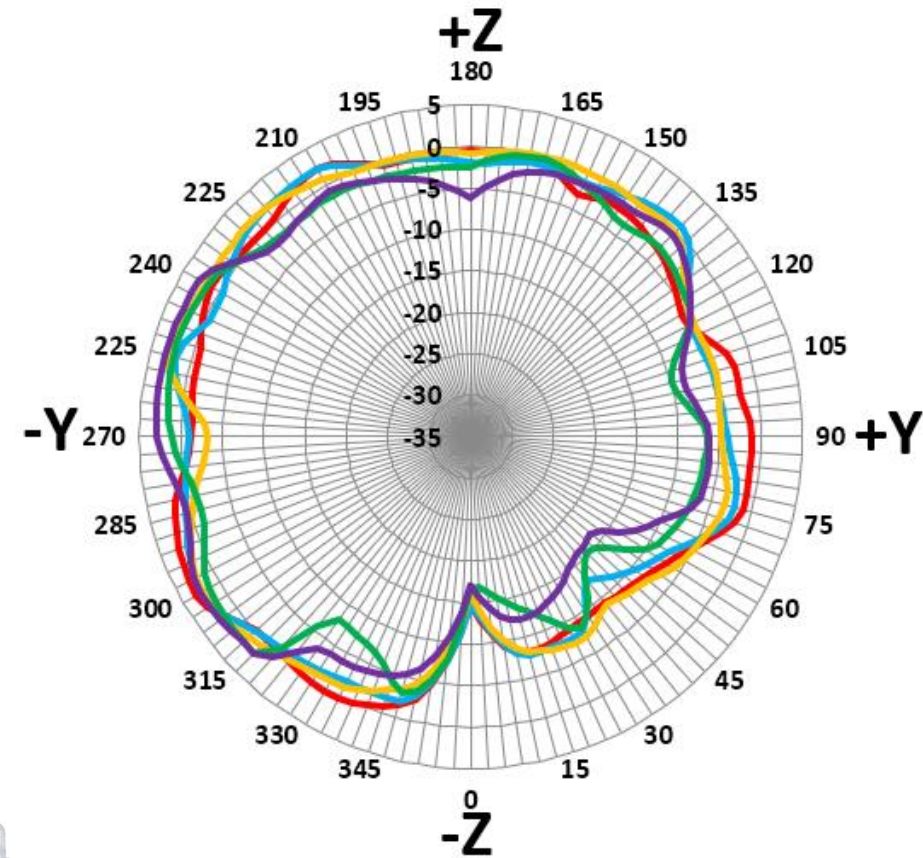
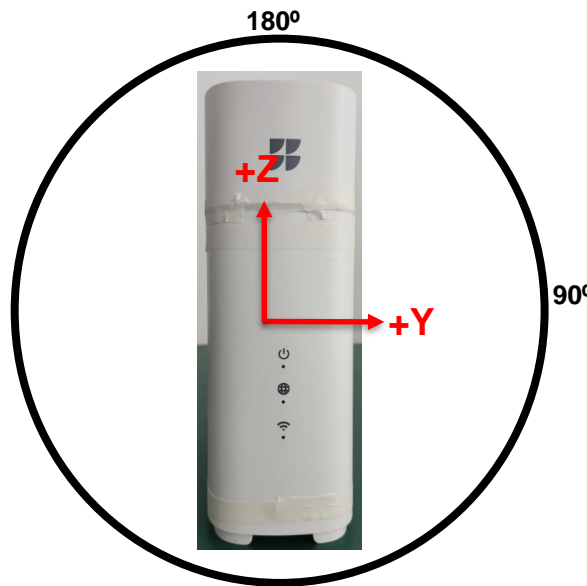
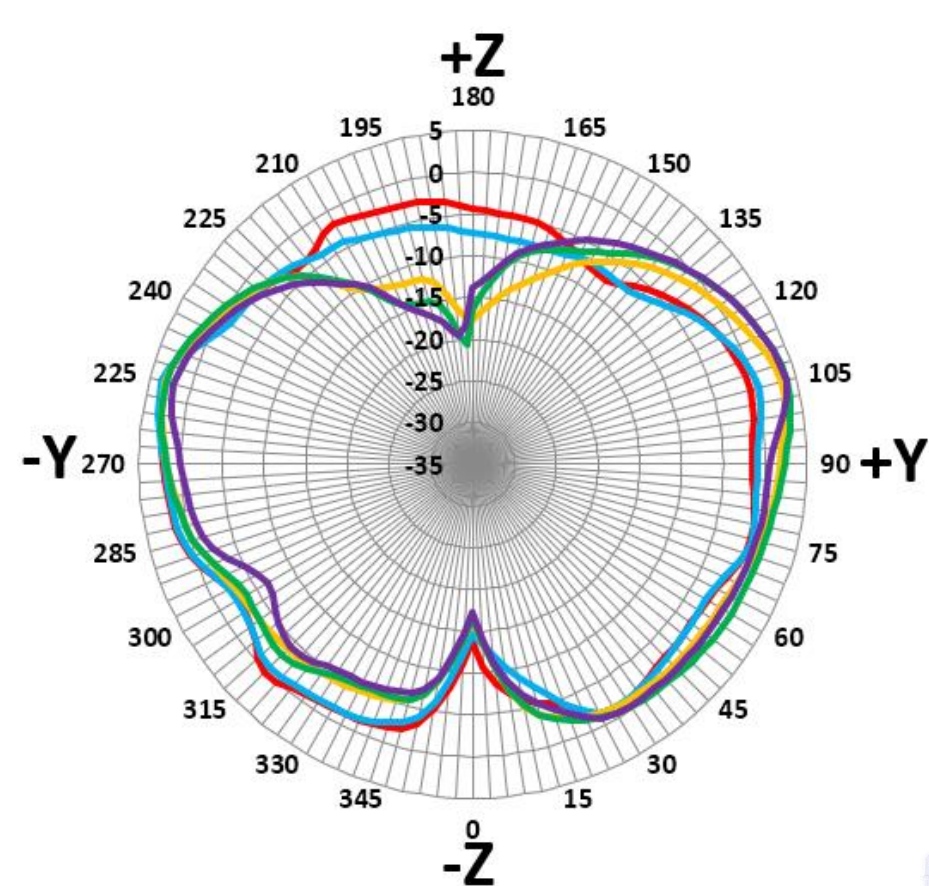


6G2

6G3

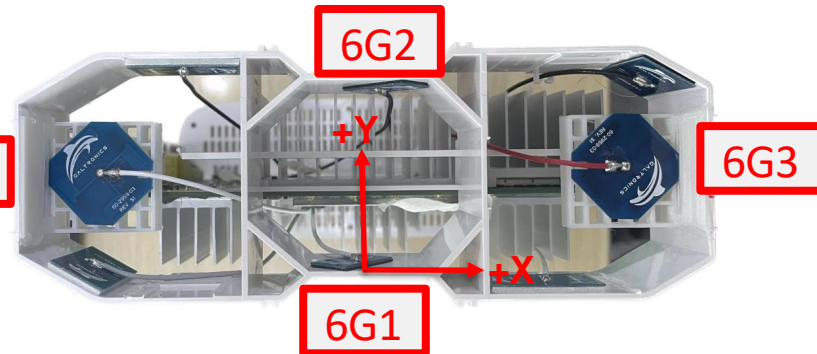
Elevation Cut(ZY)-Power Sum

6 GHz Antennas



- 5925MHz
- 6300MHz
- 6500MHz
- 6800MHz
- 7125MHz

- 5925MHz
- 6300MHz
- 6500MHz
- 6800MHz
- 7125MHz



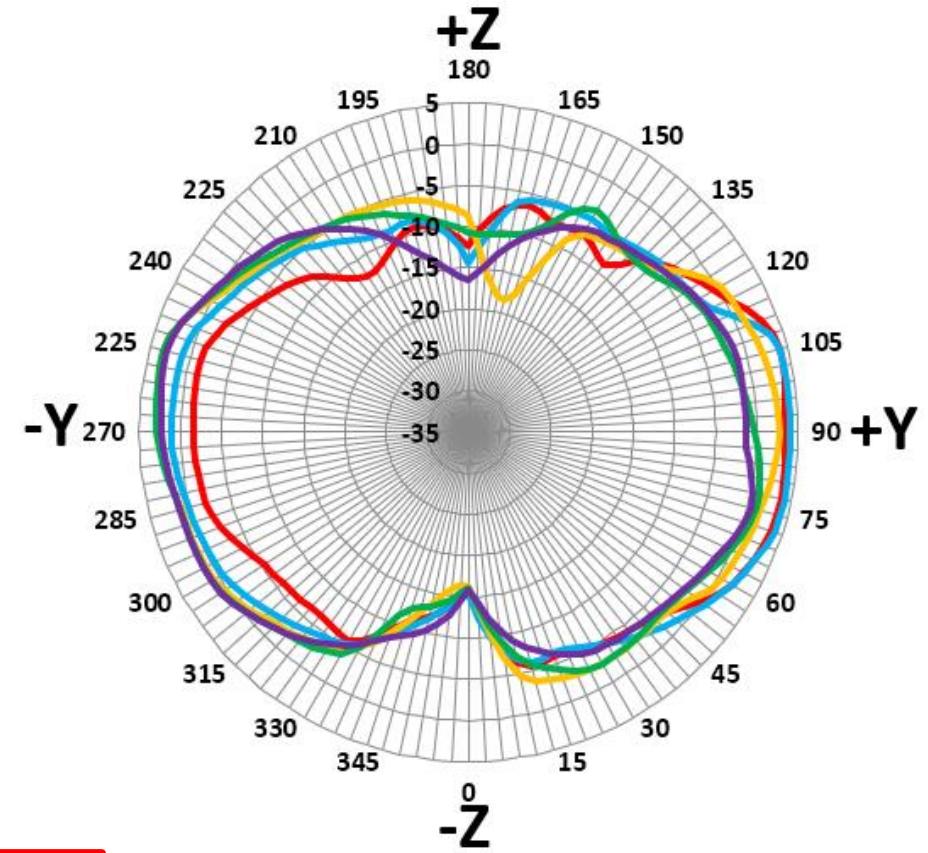
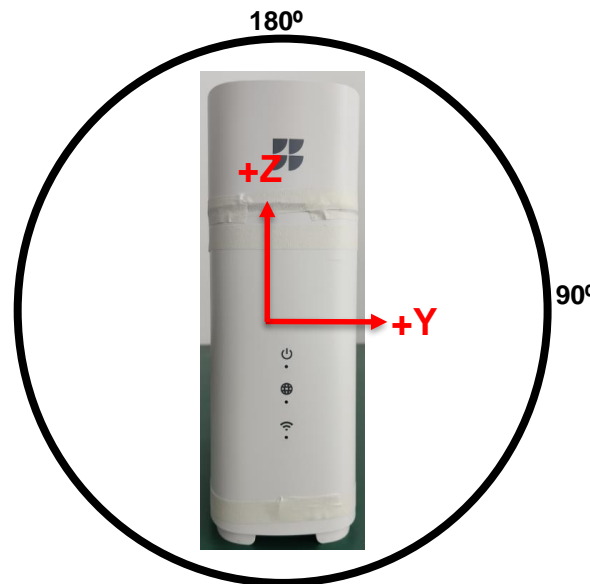
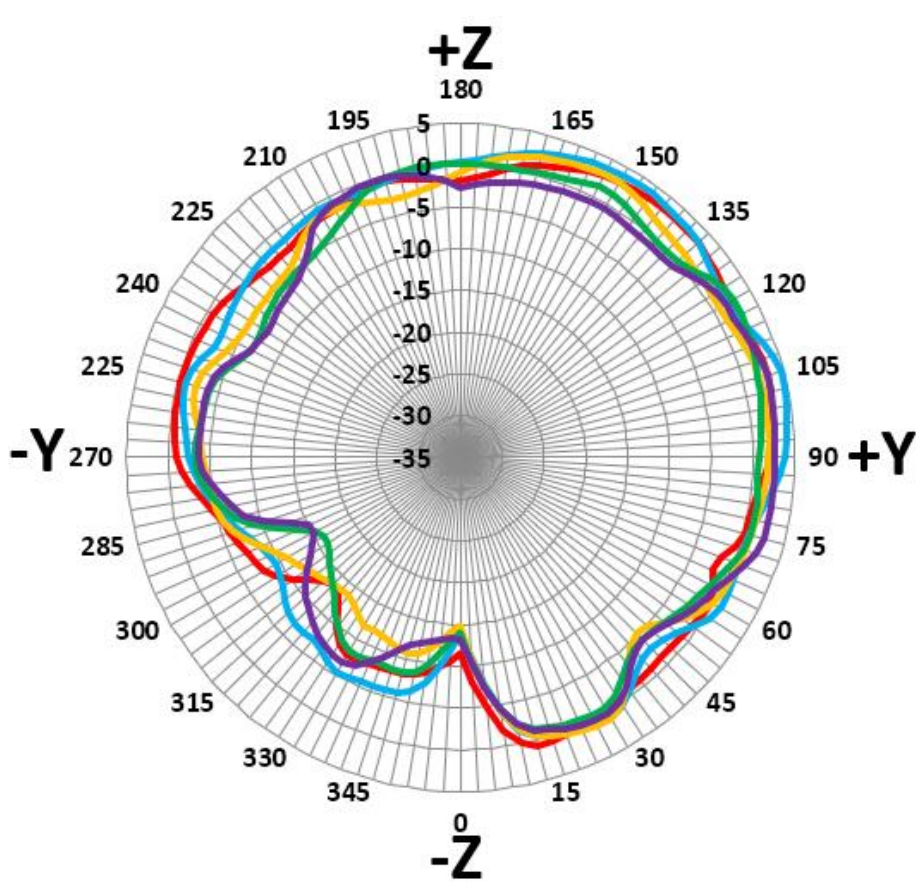
6G0

6G1

6G1

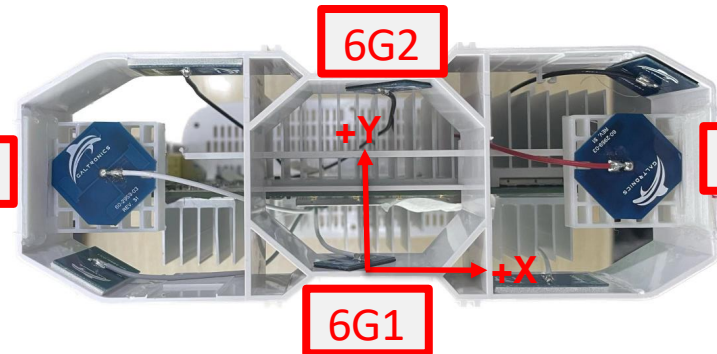
Elevation Cut(ZY)-Power Sum

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6G2

6G1

6G3

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