

GALTRONICS

WHEN CONNECTIONS COUNT



Sagemcom Charter ATT WiFi 7 C4ID Antenna Performance Report

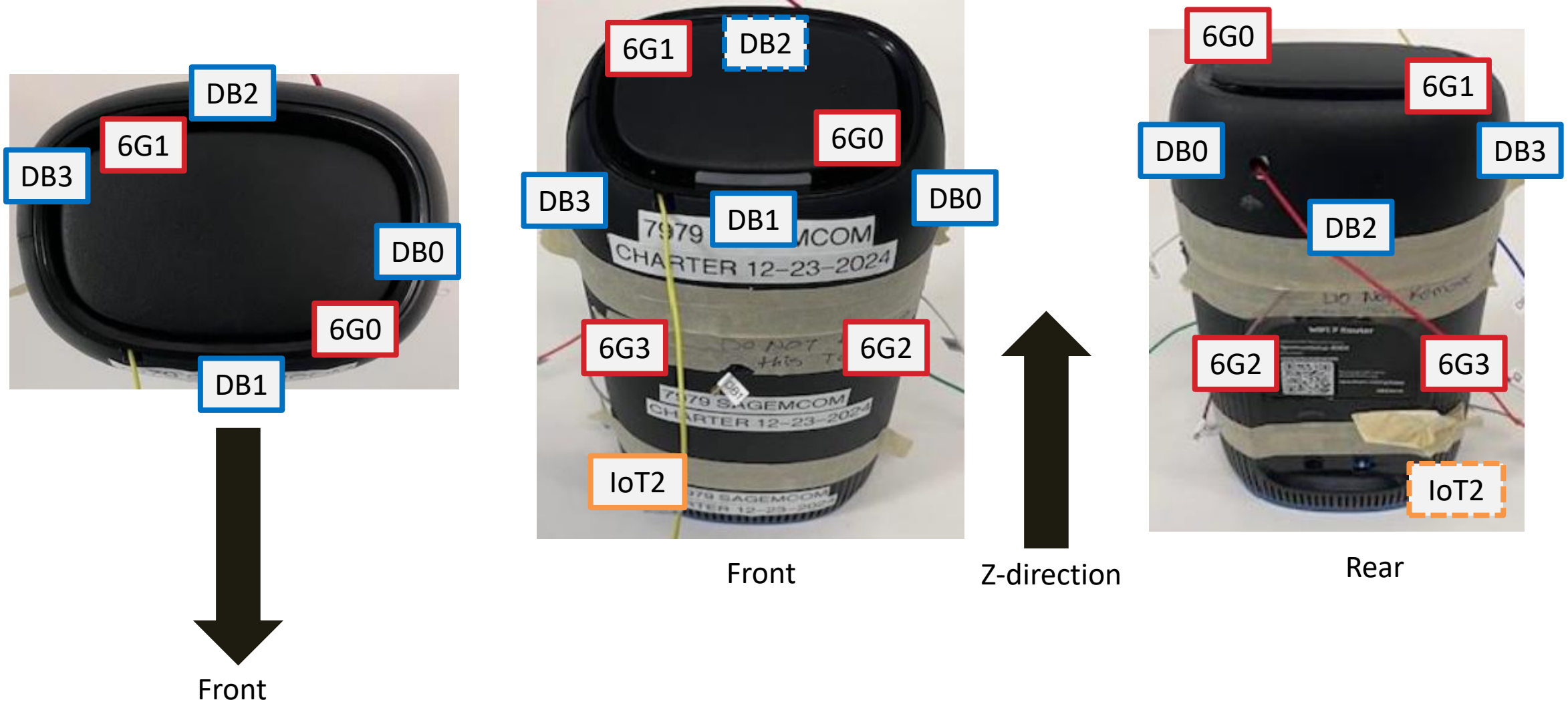
Galtronics Project: 7979

Prepared by Junho Cha
Jan 8, 2025

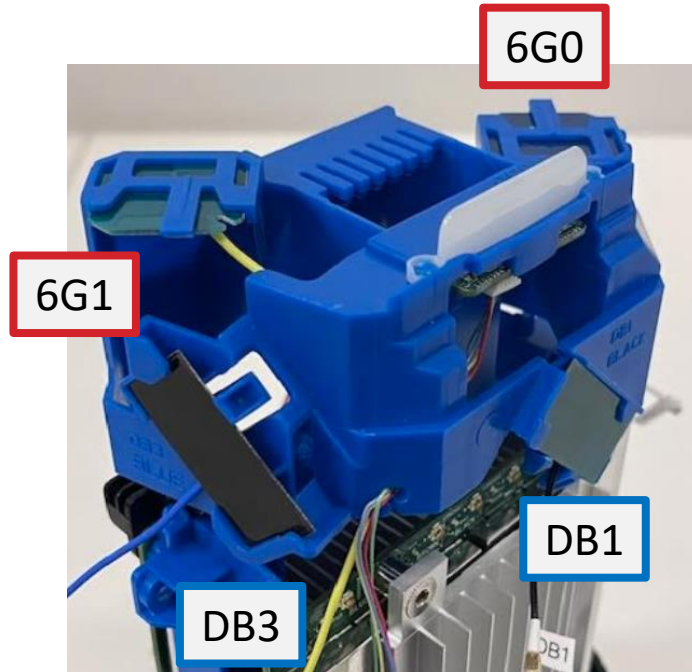
Introduction

- » Galtronics developed an antenna solution for Sagemcom Charter
- » Galtronics received the Production Unit.
- » IoT2, DB0, DB1, DB2 and DB3 are tuned for better performance.
- » There are 9 antennas
 - Four PCB Dual Band antennas (DB0, DB1, DB2, and DB3)
 - Four PCB 6 GHz antennas (6G0, 6G1, 6G2, and 6G3)
 - One PCB IoT antennas (IoT2)
- » The operating frequency of the DB is 2.4 GHz - 2.5 GHz and 5.15 GHz - 5.825 GHz.
- » The operation frequency of 6 GHz is 5.925 GHz - 7.125 GHz.
- » The operation frequency of IoT is 2.4 GHz - 2.5 GHz.
- » Measured return loss, isolation, peak gain, composite gain, and efficiency of the antennas

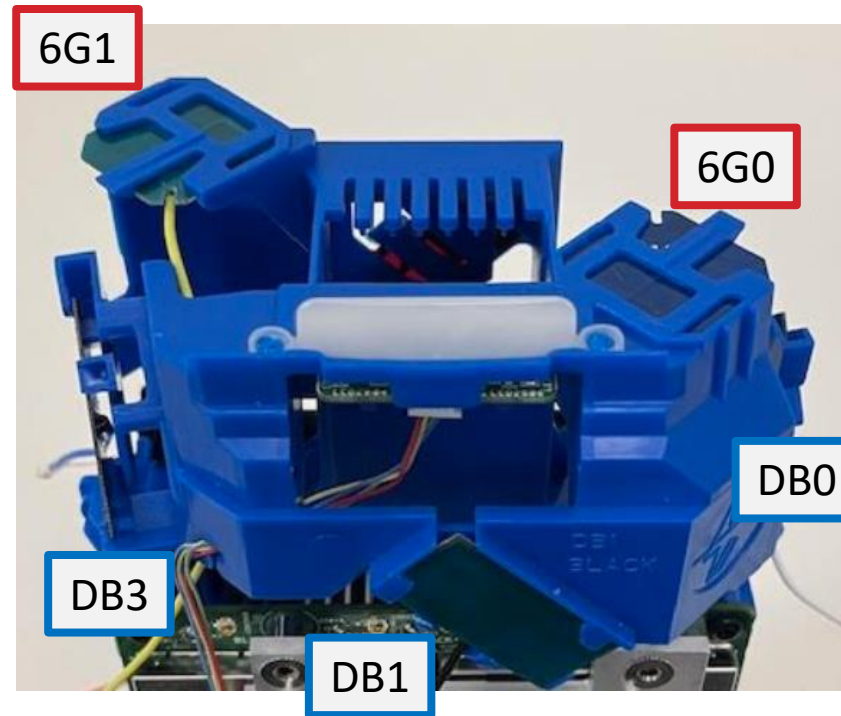
Antenna Location



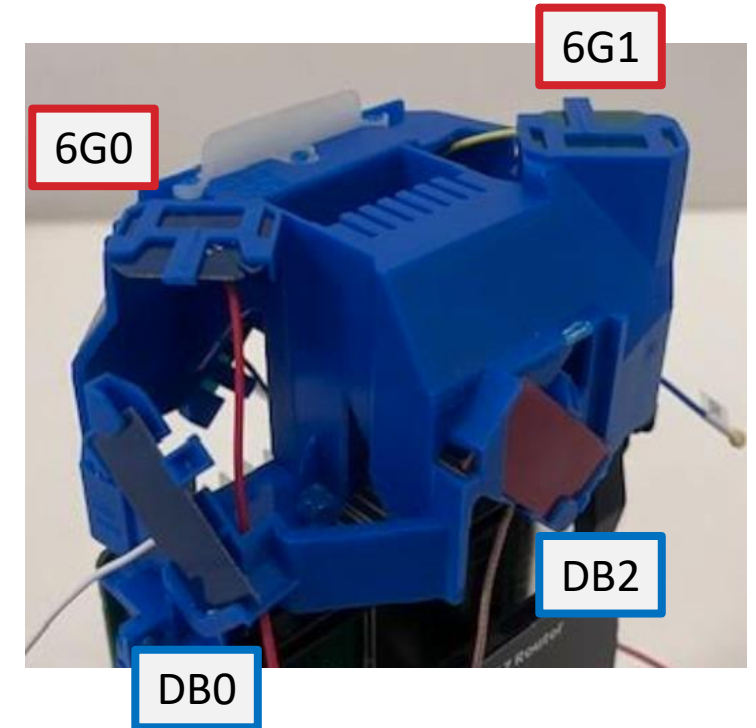
Carrier and Antenna Location



Front



Front



Rear

Antenna with an enclosure



Front

The antennas were tested in full in Enclosure



Z-direction

Cable Lengths and Orientation

Antenna	Total Cable Length	Orientation	Cable Color
DB0	80 mm	V+45°	White
DB1	50 mm	V+45°	Black
DB2	110 mm	V+45°	Brown
DB3	70 mm	V+45°	Blue
6G0	195 mm	H-pol Omni	Red
6G1	170 mm	H-pol Omni	Yellow
6G2	175 mm	V	Green
6G3	85 mm	V	Orange
IoT2	55 mm	V	Gray

Cable lengths and colors will be updated
based on cable routing

V = vertical
H = horizontal

Performance Summary

Antenna	Worst Case Return Loss (dB) 2.45 GHz Band	Worst Case Return Loss (dB) 5 GHz Band	Worst Case Return Loss (dB) 6 GHz Band	Mutual Isolation (dB) 2.45 GHz Band					Mutual Isolation (dB) 5 GHz Band				Mutual Isolation (dB) 6 GHz Band			
				DB0	DB1	DB2	DB3	IoT2	DB0	DB1	DB2	DB3	6G0	6G1	6G2	6G3
DB0	-15.7	-14.1											-27.7	-29.8	-30.0	-41.8
DB1	-16.4	-22.3		-21.3					-27.1				-28.8	-36.8	-37.1	-38.5
DB2	-14.8	-13.2		-20.5	-20.1				-29.2	-26.2			-28.9	-32.3	-38.1	-43.1
DB3	-15.9	-18.0		-23.1	-21.3	-20.9			-28.2	-37.1	-36.8		-31.0	-30.0	-32.1	-30.9
6G0			-11.8	-44.3	-38.3	-41.0	-37.9	-46.9	-28.5	-27.7	-28.2	-33.1				
6G1			-12.5	-42.5	-40.2	-44.9	-45.3	-49.4	-33.3	-34.5	-28.8	-28.7	-27.5			
6G2			-13.2	-31.0	-46.1	-35.0	-37.9	-37.5	-33.8	-39.7	-38.5	-45.5	-39.0	-36.7		
6G3			-12.4	-35.3	-31.1	-36.2	-41.7	-30.0	-42.8	-44.1	-45.8	-38.7	-41.1	-36.8	-31.3	
IoT2	-13.5			-22.6	-24.4	-36.1	-26.9		-40.7	-36.8	-41.9	-38.8	-40.0	-42.1	-35.1	-32.1

Antenna	Average Efficiency 2.45 GHz Band (%)	Average Efficiency 5 GHz Band (%)	Average Efficiency 6 GHz Band (%)	Highest Peak Gain 2.45 GHz Band (dBi)	Highest Peak Gain 5 GHz Band (dBi)	Highest Peak Gain 6 GHz Band (dBi)
DB0	72.32	72.19		3.91	5.73	
DB1	71.25	72.42		5.03	5.64	
DB2	70.92	71.28		3.59	4.85	
DB3	71.35	71.01		4.37	3.75	
6G0			64.29			4.05
6G1			66.77			4.38
6G2			65.62			5.88
6G3			71.66			5.70
IoT2	70.16			3.69		

DB Antennas Peak Gain and Efficiency

DB0	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency
	2400	3.04	4.48	71.74 %
	2450	3.79	5.15	73.08 %
	2500	3.91	5.33	72.13 %
	Average			72.32 %
DB1	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency
	2400	3.75	5.25	70.72 %
	2450	5.03	6.45	72.18 %
	2500	3.64	5.13	70.84 %
	Average			71.25 %
DB2	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency
	2400	3.48	5.10	68.81 %
	2450	3.59	5.00	72.16 %
	2500	2.53	3.97	71.78 %
	Average			70.92 %
DB3	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency
	2400	3.43	4.96	70.33 %
	2450	4.37	5.81	71.74 %
	2500	3.71	5.14	71.97 %
	Average			71.35 %

DB0	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency
	5150	5.73	7.27	70.15 %
	5250	5.66	7.05	72.51 %
	5350	5.10	6.52	72.11 %
	5500	4.43	5.81	72.92 %
	5725	4.69	6.04	73.15 %
	5825	4.58	5.99	72.31 %
	Average			72.19 %
DB1	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency
	5150	5.16	6.67	70.60 %
	5250	5.64	7.14	70.83 %
	5350	4.75	6.11	73.08 %
	5500	4.61	5.99	72.68 %
	5725	5.03	6.33	74.14 %
	5825	4.96	6.32	73.19 %
	Average			72.42 %
DB2	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency
	5150	4.43	5.87	71.72 %
	5250	4.07	5.46	72.66 %
	5350	4.85	6.26	72.28 %
	5500	4.12	5.68	69.78 %
	5725	4.03	5.57	70.13 %
	5825	4.38	5.86	71.13 %
	Average			71.28 %
DB3	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency
	5150	3.75	5.23	71.05 %
	5250	3.35	4.92	69.62 %
	5350	3.27	4.66	72.71 %
	5500	3.45	5.00	70.01 %
	5725	3.61	5.04	71.92 %
	5825	3.46	4.97	70.73 %
	Average			71.01 %

IoT and 6 GHz Antennas Peak Gain and Efficiency

IoT2	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency
	2400	3.69	5.17	71.21 %
	2450	3.36	4.75	72.74 %
	2500	2.79	4.56	66.54 %
	Average			70.16 %

6G0	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency
	5925	2.66	4.55	64.65 %
	6300	3.19	5.14	63.82 %
	6500	3.12	5.03	64.40 %
	6800	3.18	5.10	64.20 %
	7125	4.05	5.97	64.38 %
	Average			64.29 %

6G1	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency
	5925	4.38	6.12	66.98 %
	6300	3.09	4.80	67.40 %
	6500	3.21	4.99	66.40 %
	6800	2.89	4.57	67.80 %
	7125	3.49	5.34	65.29 %
	Average			66.77 %

6G2	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency
	5925	5.51	7.25	67.11 %
	6300	4.80	6.55	66.82 %
	6500	4.79	6.56	66.45 %
	6800	5.88	7.88	63.02 %
	7125	5.10	6.99	64.71 %
	Average			65.62 %

6G3	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency
	5925	5.53	7.03	70.78 %
	6300	5.70	7.19	70.99 %
	6500	5.56	6.92	73.19 %
	6800	5.19	6.59	72.55 %
	7125	5.55	7.05	70.79 %
	Average			71.66 %

DB 2.45 GHz Horizontal and Vertical Correlated directional Gain

Worst Case

Frequency (MHz)	Degree		Gain (dBi)				Correlated Gain (dBi) - H-Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
2400	0	152	-3.32	2.95	2.65	-7.01	5.78
2450	0	3	-5.51	3.91	-0.07	-8.66	4.76
2500	1	184	-3.78	2.10	-3.50	-4.43	4.05

Frequency (MHz)	Degree		Gain (dBi)				Correlated Gain (dBi)-V-Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
2400	0	62	-3.32	2.95	2.65	-7.01	5.78
2450	2	280	-8.65	4.47	0.59	-7.90	4.90
2500	1	273	-5.90	2.67	-2.43	-4.97	4.05

DB 2.45 GHz Horizontal and Vertical Uncorrelated directional Gain

Worst Case

Frequency (MHz)	Degree		Gain (dBi)				UnCorrelated Gain (dBi) - H-Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
2400	0	158	-4.61	3.10	2.79	-6.44	0.53
2450	1	2	-6.69	3.90	0.28	-8.62	-0.14
2500	65	263	0.03	-14.35	-11.63	2.60	-1.35

Frequency (MHz)	Degree		Gain (dBi)				UnCorrelated Gain (dBi)-V-Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
2400	1	68	-4.31	3.16	2.90	-7.64	0.57
2450	4	281	-14.73	4.38	1.35	-6.80	0.36
2500	3	282	-8.10	3.28	-0.78	-8.98	-0.91

DB 5 GHz Horizontal and Vertical Correlated directional Gain

Worst Case

Frequency (MHz)	Degree		Gain (dBi)				Correlated Gain (dBi) - H-Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
5150	47	117	3.71	-2.75	-3.94	-0.80	5.60
5250	49	115	3.05	-4.48	-4.45	-0.70	4.96
5350	6	136	-1.21	-1.60	1.20	-1.82	5.25
5500	9	123	0.59	-3.68	-2.84	-0.83	4.49
5725	36	159	-2.55	-0.09	1.87	-5.90	4.82
5825	37	161	-2.94	-0.51	2.90	-7.19	4.83

Frequency (MHz)	Degree		Gain (dBi)				Correlated Gain (dBi)-V-Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
5150	76	131	2.21	2.82	-4.97	-4.00	5.73
5250	32	86	-6.33	4.83	-0.65	-2.29	5.85
5350	32	82	-7.30	3.69	-0.24	-0.32	5.80
5500	80	133	1.04	2.10	-3.89	-3.99	5.28
5725	80	131	0.22	1.06	-3.13	-4.34	4.76
5825	97	125	1.28	-3.44	-1.76	-2.04	4.71

DB 5 GHz Horizontal and Vertical Uncorrelated directional Gain

Worst Case

Frequency (MHz)	Degree		Gain (dBi)				UnCorrelated Gain (dBi) - H-Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
5150	47	117	3.71	-2.75	-3.94	-0.80	0.12
5250	59	92	3.95	-13.09	-6.02	1.43	0.18
5350	62	37	1.44	1.11	-1.15	-21.17	-0.63
5500	26	76	1.70	-10.31	-9.48	1.40	-1.16
5725	32	91	3.34	-13.53	-10.97	1.23	-0.45
5825	31	168	-3.56	0.41	3.32	-11.29	-0.27

Frequency (MHz)	Degree		Gain (dBi)				UnCorrelated Gain (dBi)-V-Pol
	Theta	Phi	DB0	DB1	DB2	DB3	
5150	57	133	2.43	4.00	-13.26	-7.61	0.50
5250	34	89	-5.46	5.26	-1.66	-3.50	0.77
5350	62	140	3.77	3.47	-12.59	-5.67	0.91
5500	63	142	1.83	3.32	-10.17	-4.62	0.12
5725	41	88	-10.93	4.77	-8.83	-2.13	-0.20
5825	41	93	-5.87	4.76	-9.88	-3.42	-0.21

6 GHz Horizontal and Vertical Correlated directional Gain

Worst Case

Frequency (MHz)	Degree		Gain (dBi)				Correlated Gain (dBi) - H-Pol
	Theta	Phi	6G0	6G1	6G2	6G3	
5925	66	162	2.42	2.01	1.90	-20.37	5.85
6300	52	151	-0.47	0.51	1.20	-10.27	4.76
6500	56	137	-2.57	2.86	-1.66	-7.20	4.60
6800	62	133	-0.77	0.71	-0.34	-8.76	4.42
7125	42	62	1.58	0.33	-6.51	-5.67	4.17

Frequency (MHz)	Degree		Gain (dBi)				Correlated Gain (dBi)-V-Pol
	Theta	Phi	6G0	6G1	6G2	6G3	
5925	104	78	-8.20	-5.55	5.18	-12.81	3.41
6300	106	269	-3.76	-9.86	-4.36	3.59	3.77
6500	117	98	-6.41	-5.99	3.74	-5.94	3.58
6800	104	72	-6.34	-8.35	5.26	-3.71	4.48
7125	114	248	-4.59	-9.90	-3.06	2.43	3.33

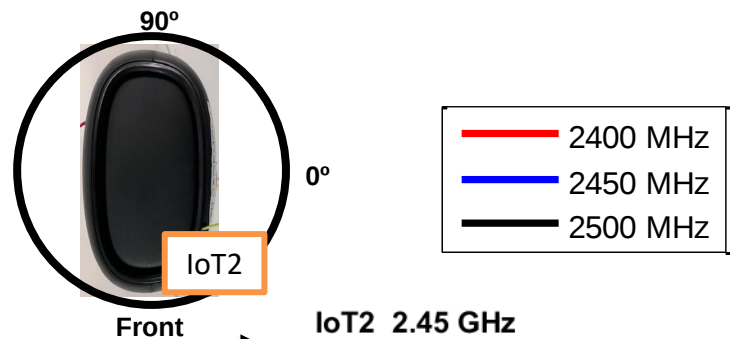
6 GHz Horizontal and Vertical Uncorrelated directional Gain

Worst Case

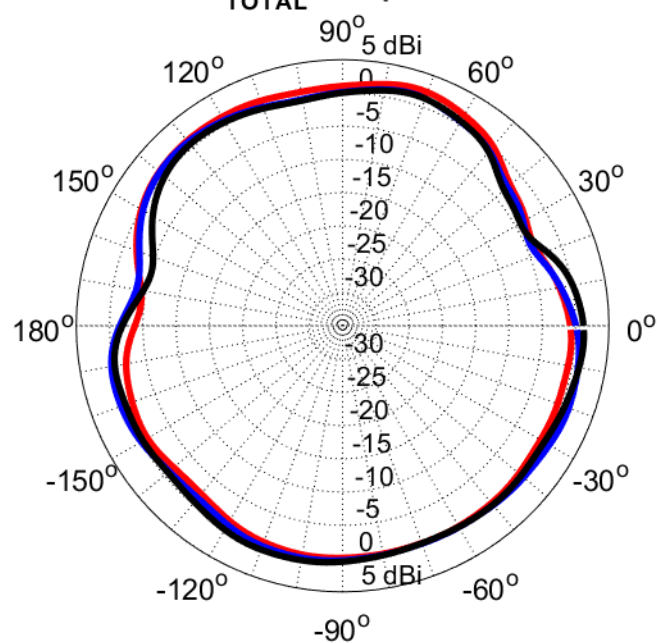
Frequency (MHz)	Degree		Gain (dBi)				UnCorrelated Gain (dBi) - H-Pol
	Theta	Phi	6G0	6G1	6G2	6G3	
5925	66	163	2.33	2.01	2.02	-21.78	0.88
6300	53	150	-0.54	1.05	0.82	-10.86	-0.65
6500	90	278	2.85	1.39	-27.83	-5.76	-0.49
6800	78	264	2.75	1.35	-10.56	-18.28	-0.77
7125	91	281	3.47	0.70	-11.20	-14.18	-0.57

Frequency (MHz)	Degree		Gain (dBi)				UnCorrelated Gain (dBi)-V-Pol
	Theta	Phi	6G0	6G1	6G2	6G3	
5925	101	79	-9.18	-6.11	5.38	-13.66	-0.15
6300	71	274	-11.30	-13.23	-11.54	5.60	-0.19
6500	66	268	-6.45	-14.62	-7.90	5.45	-0.08
6800	105	75	-6.19	-11.01	5.60	-4.68	0.31
7125	90	273	-18.63	-18.68	-3.50	5.45	-0.02

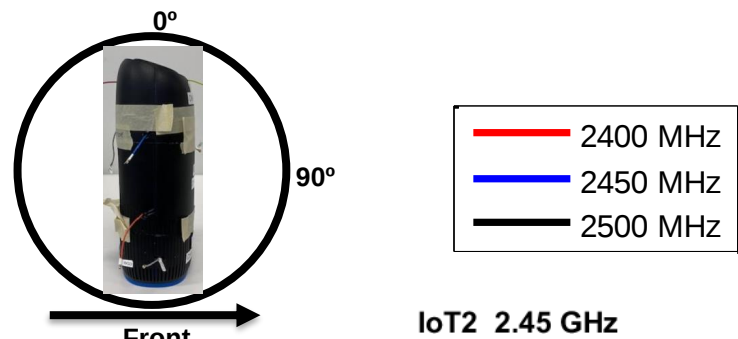
IoT Antenna Power Sum Gain Patterns



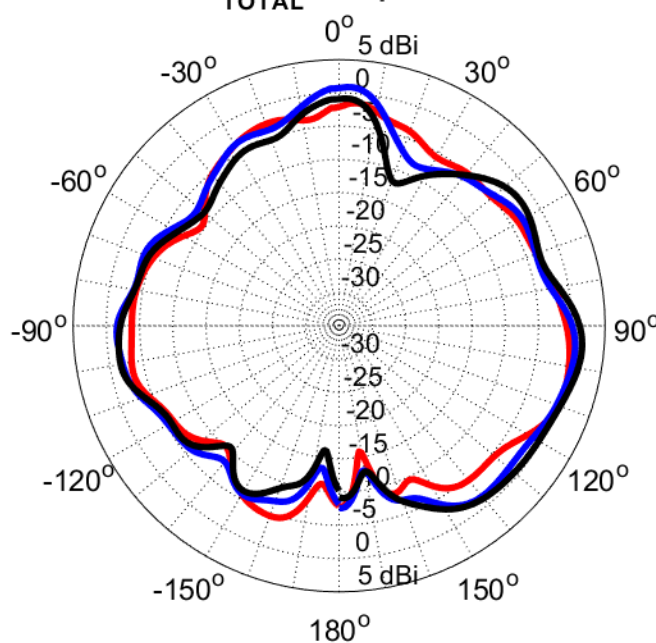
IoT2 2.45 GHz
AZ Cut @ Theta=90°
E_{TOTAL} Component



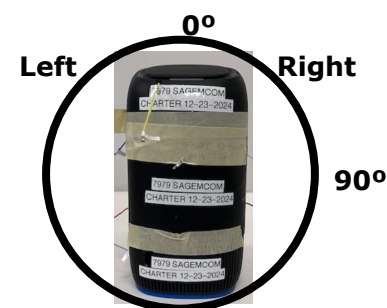
Azimuth Cut ($\theta = 90^\circ$)



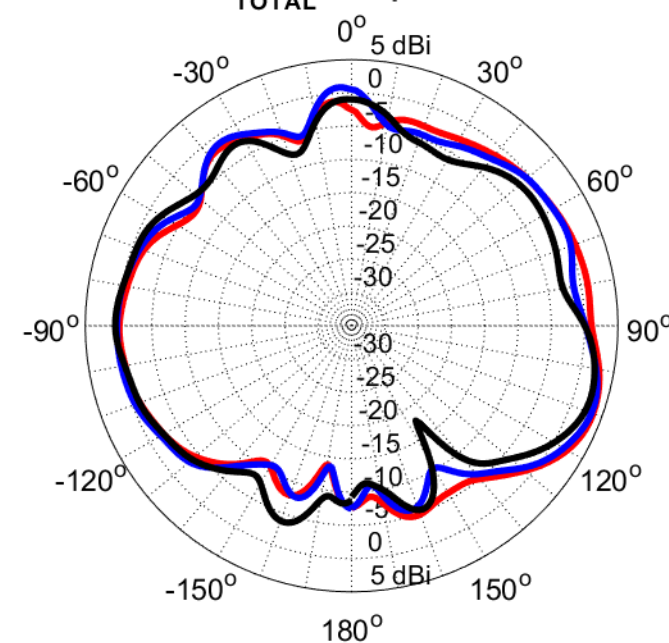
IoT2 2.45 GHz
EL1 (Front-to-Back) Cut @ Phi=0°
E_{TOTAL} Component



Elevation
(Front to Back) Cut

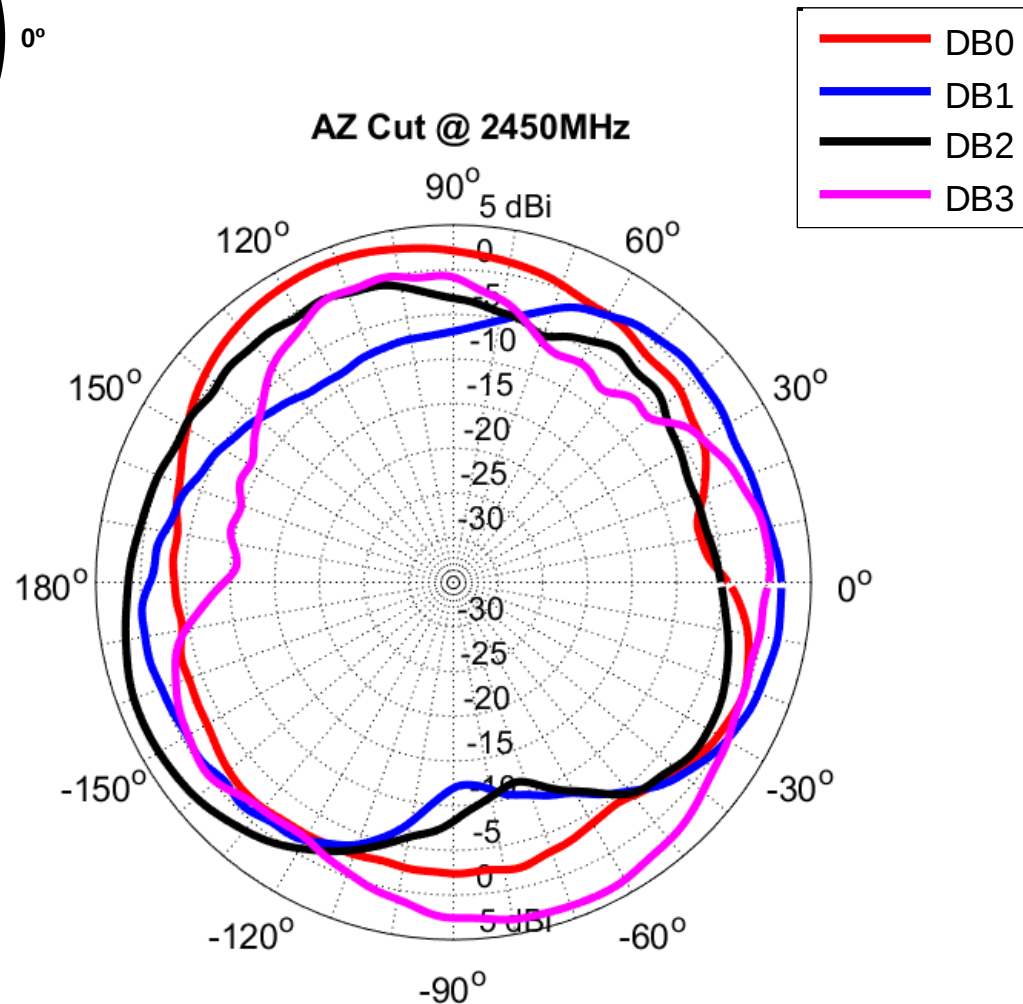
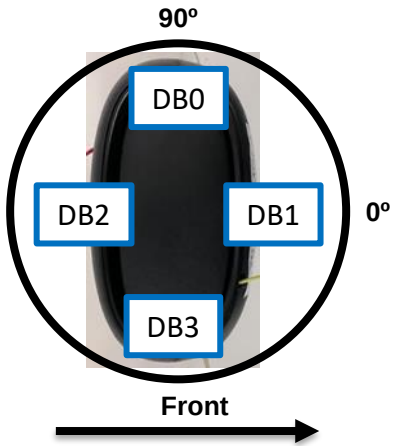


IoT2 2.45 GHz
EL2 (Side-to-Side) Cut @ Phi=90°
E_{TOTAL} Component

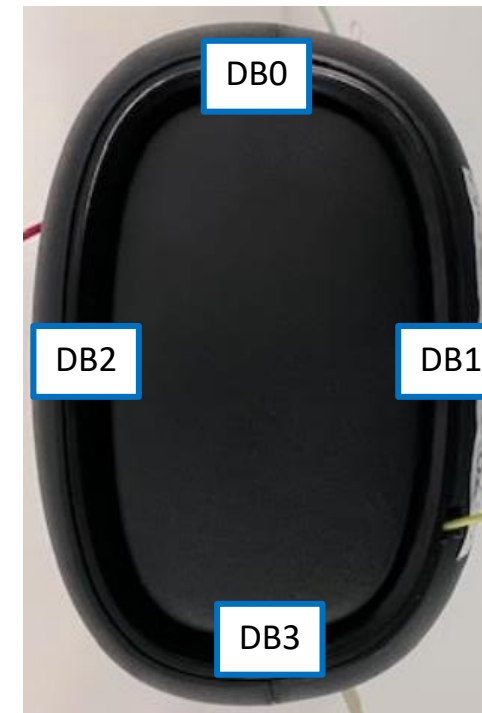


Elevation
(Side to Side) Cut

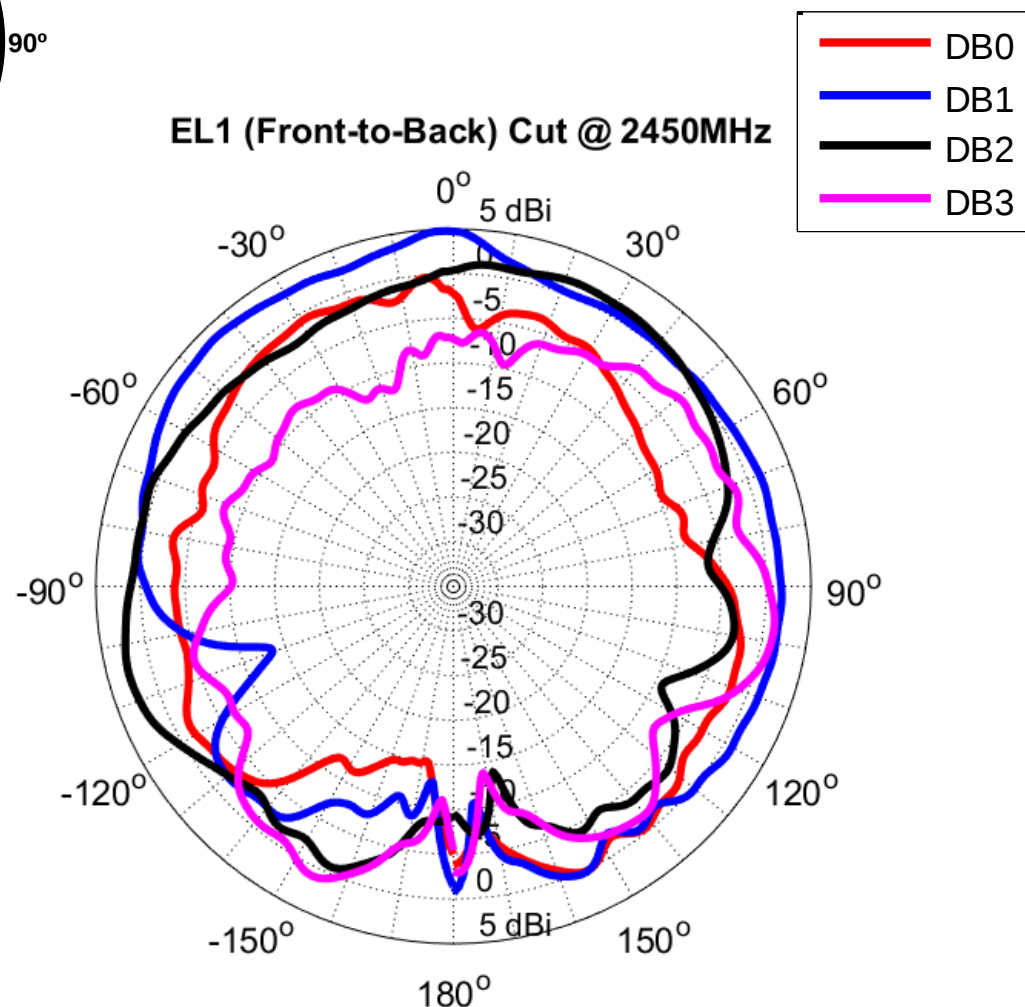
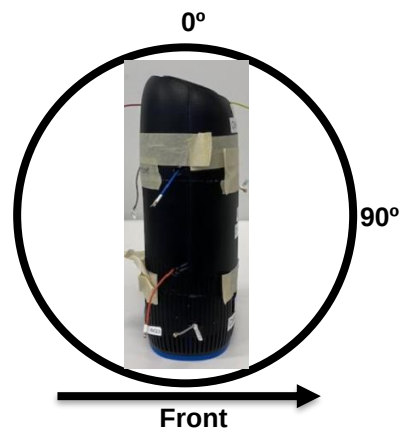
Azimuth Cut - Power Sum System Coverage – DB Antennas



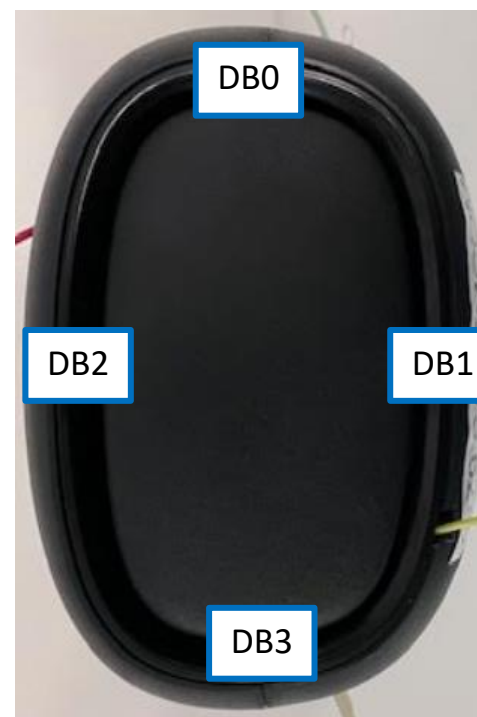
2.45 GHz



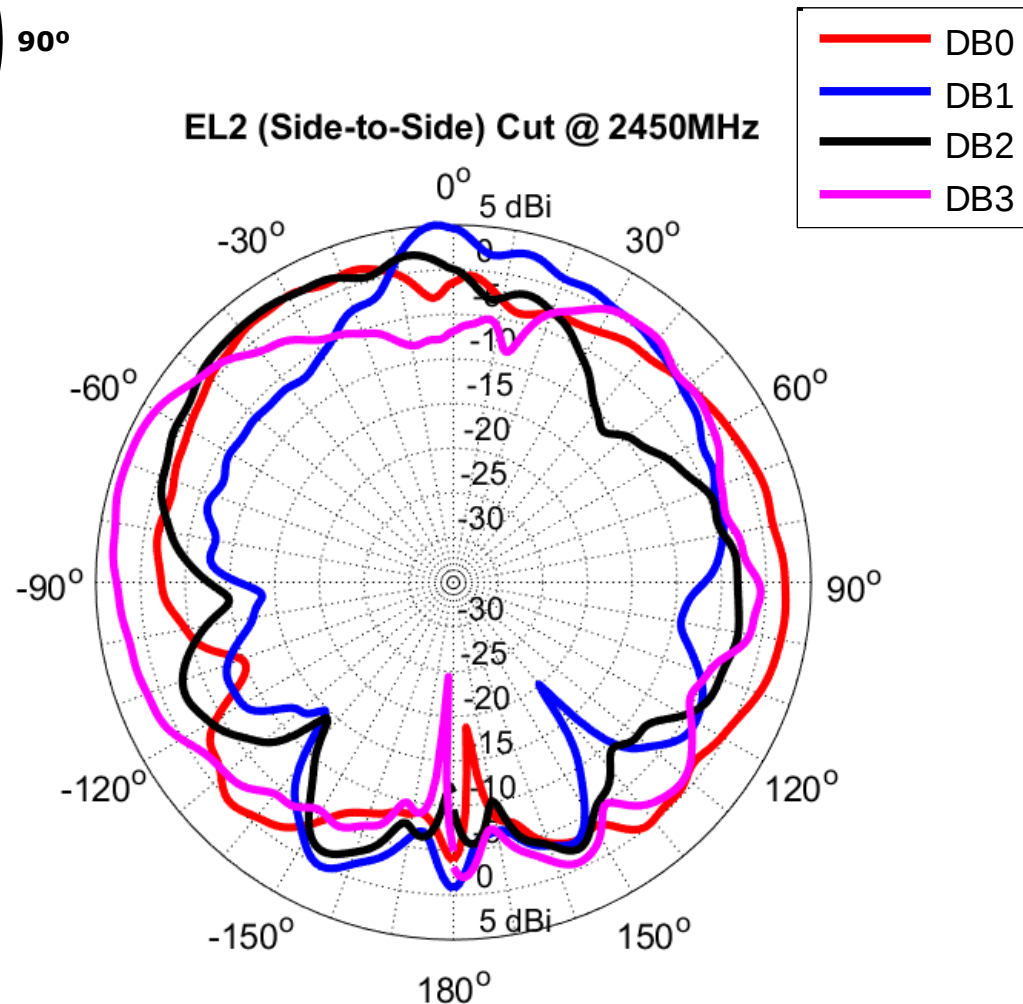
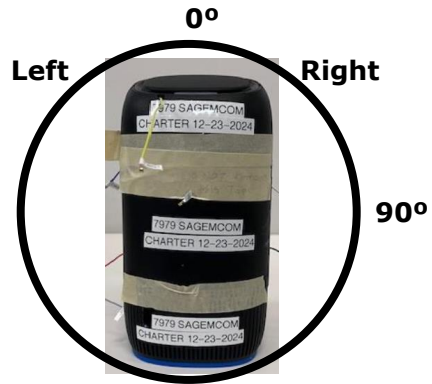
Elevation (Front to Back) Cut - Power Sum System Coverage – DB Antennas



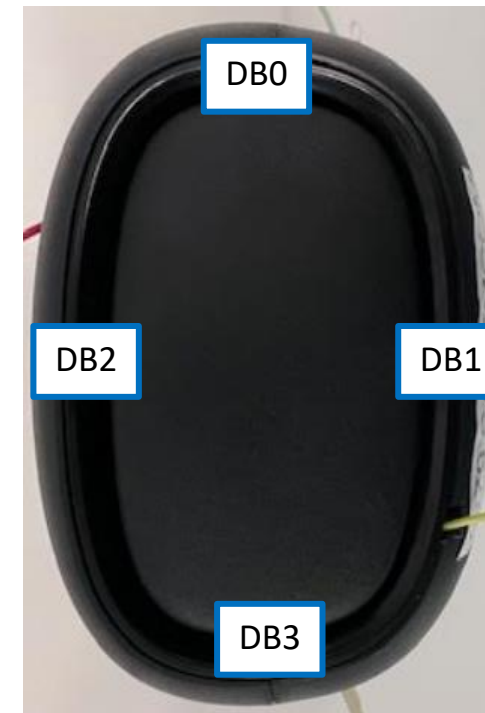
2.45 GHz



Elevation (Side to Side) Cut - Power Sum System Coverage – DB Antennas



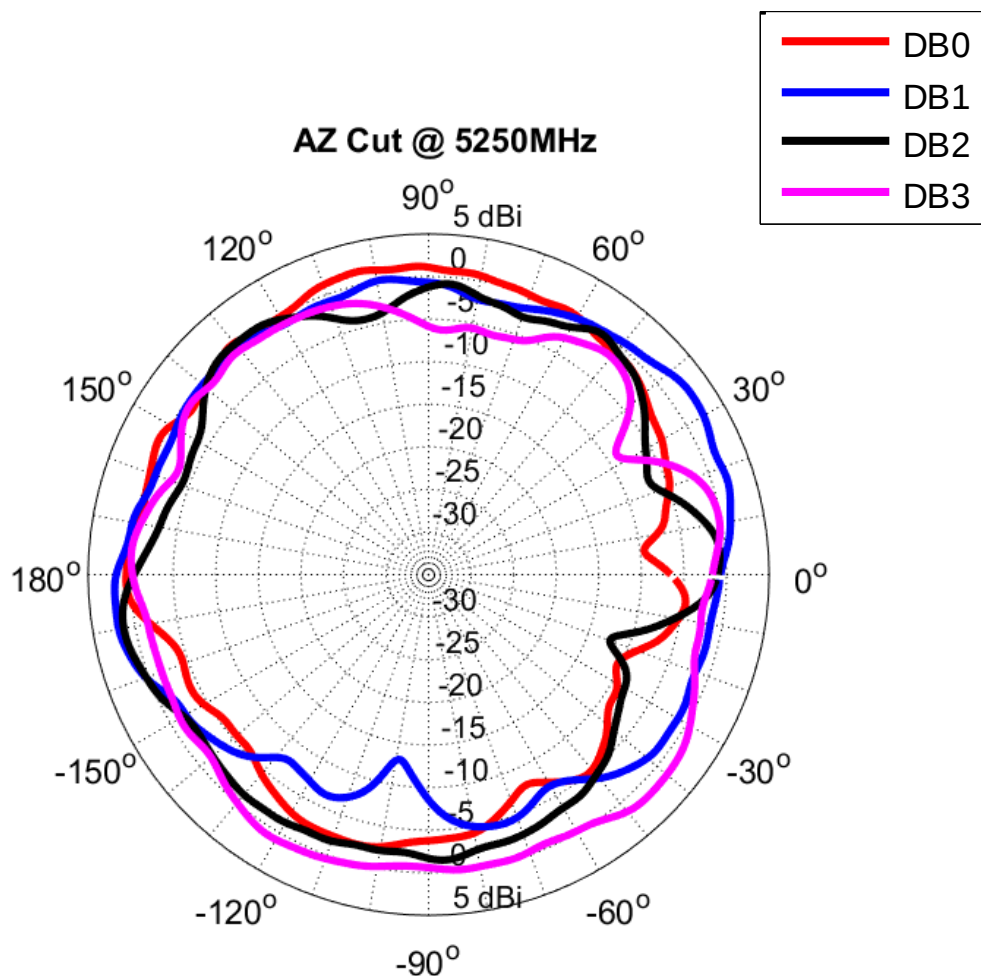
2.45 GHz



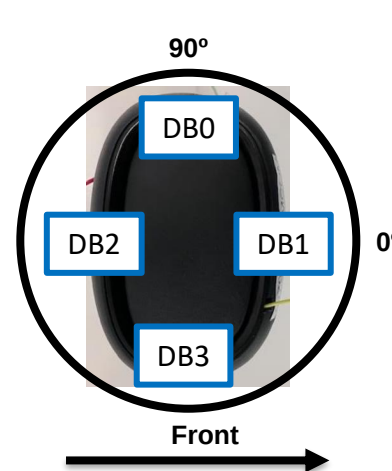
Azimuth Cut - Power Sum

System Coverage – DB Antennas

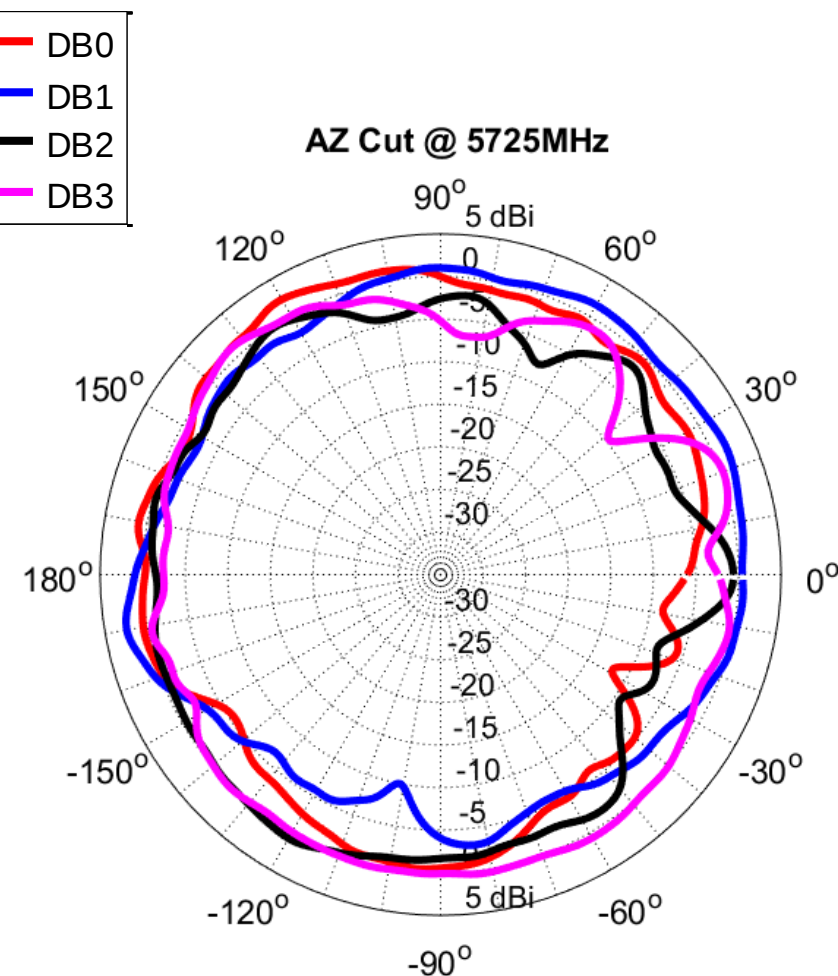
AZ Cut @ 5250MHz



Dual Band – 5.25 GHz

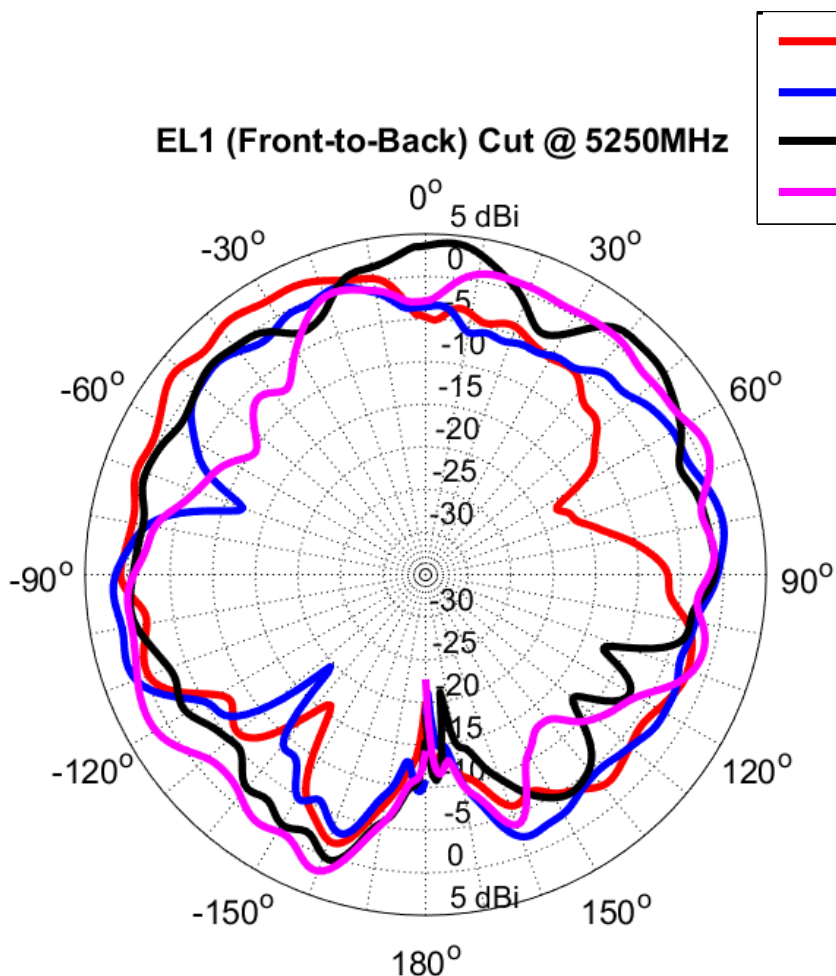


AZ Cut @ 5725MHz

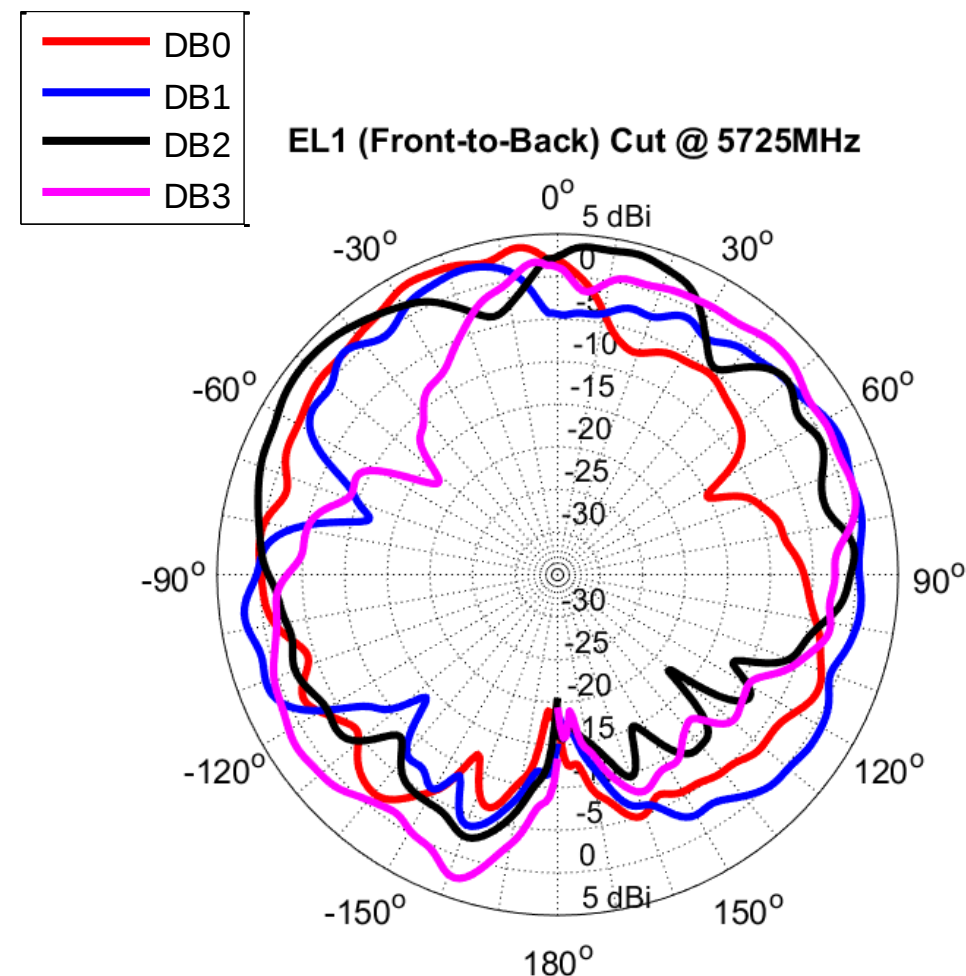
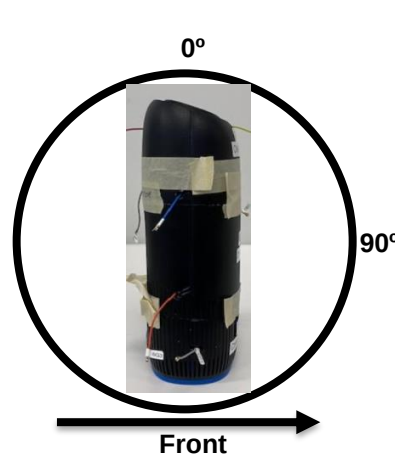


Dual Band – 5.725 GHz

Elevation (Front to Back) Cut - Power Sum System Coverage – DB Antennas

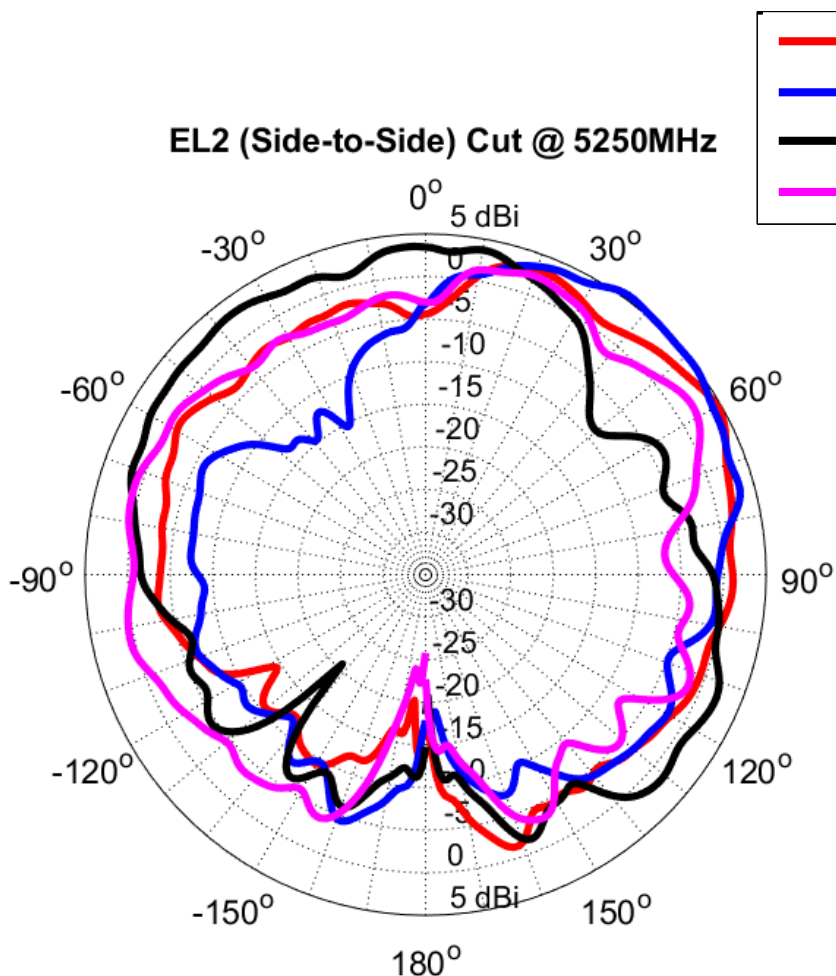


Dual Band – 5.25 GHz

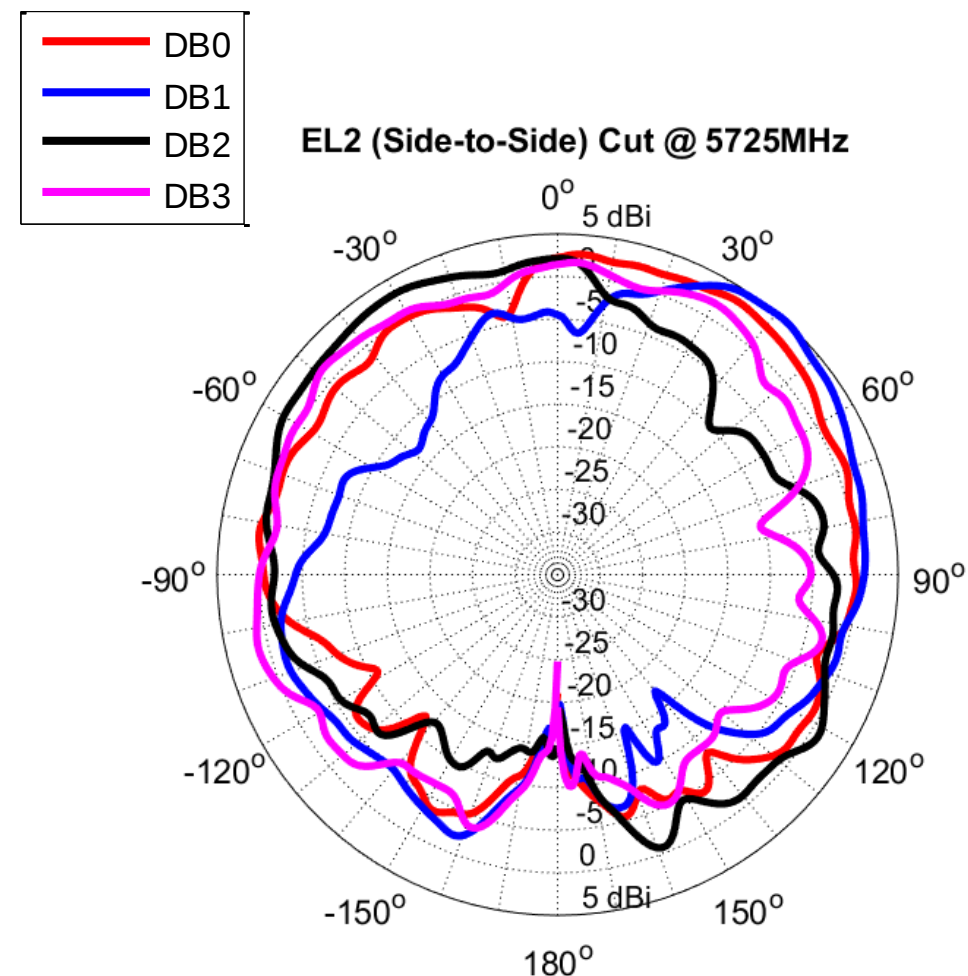
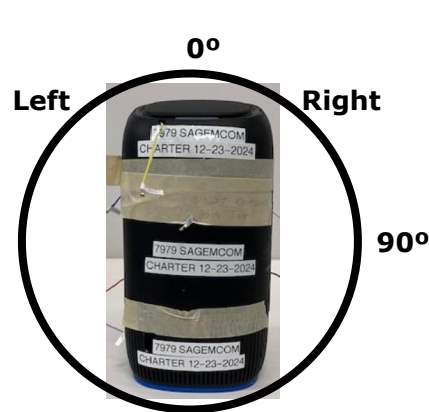


Dual Band – 5.725 GHz

Elevation (Side to Side) Cut - Power Sum System Coverage – DB Antennas

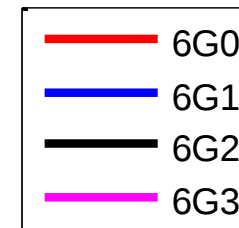
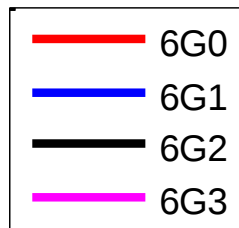
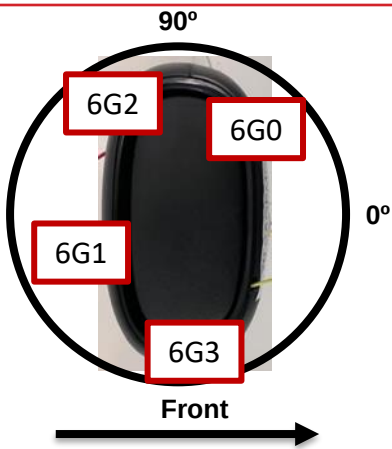


Dual Band – 5.25 GHz

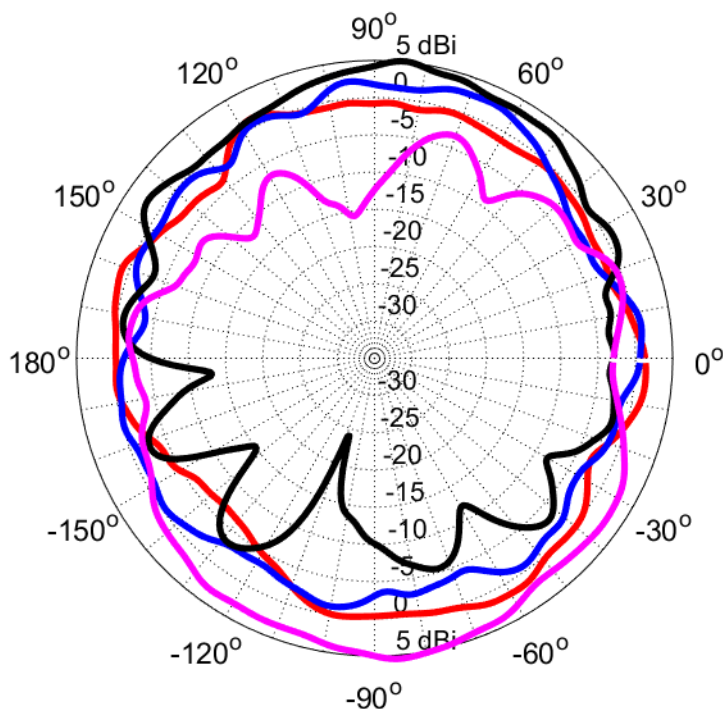


Dual Band – 5.725 GHz

Azimuth Cut - Power Sum System Coverage – 6 GHz Antennas

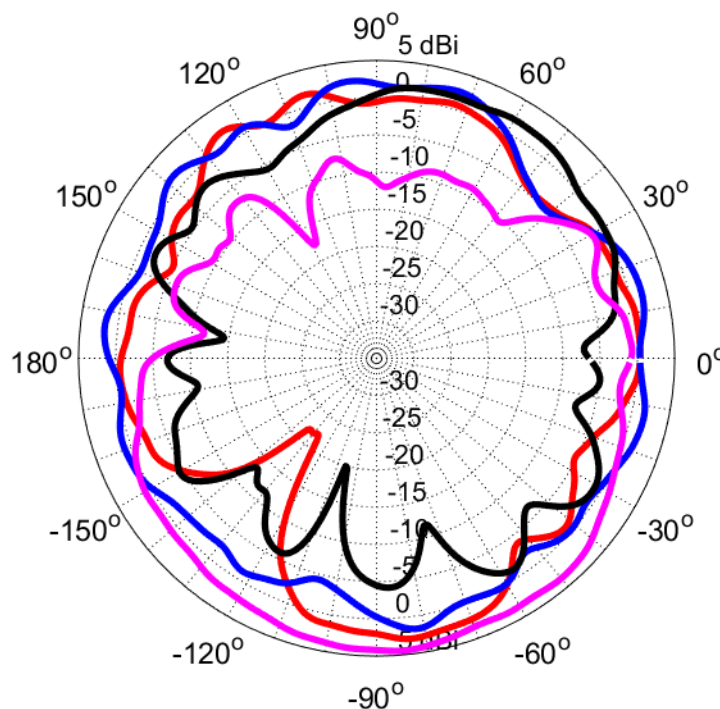


AZ Cut @ 5925MHz



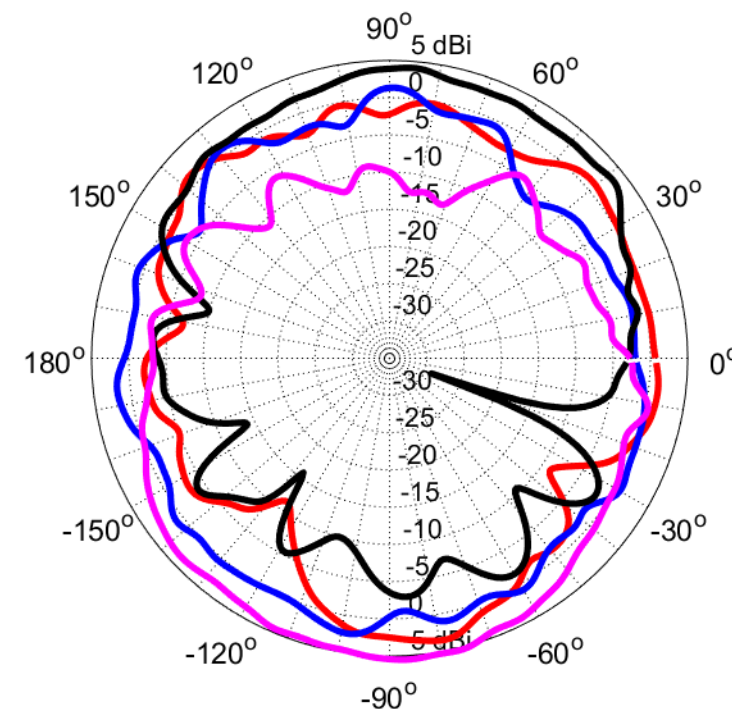
5925 MHz

AZ Cut @ 6500MHz

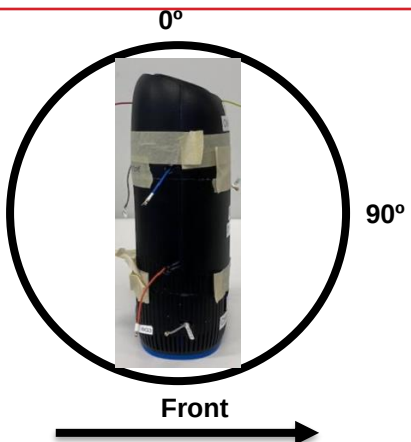


6500 MHz

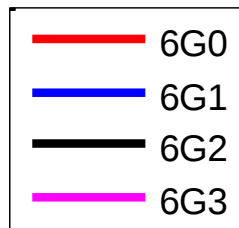
AZ Cut @ 7125MHz



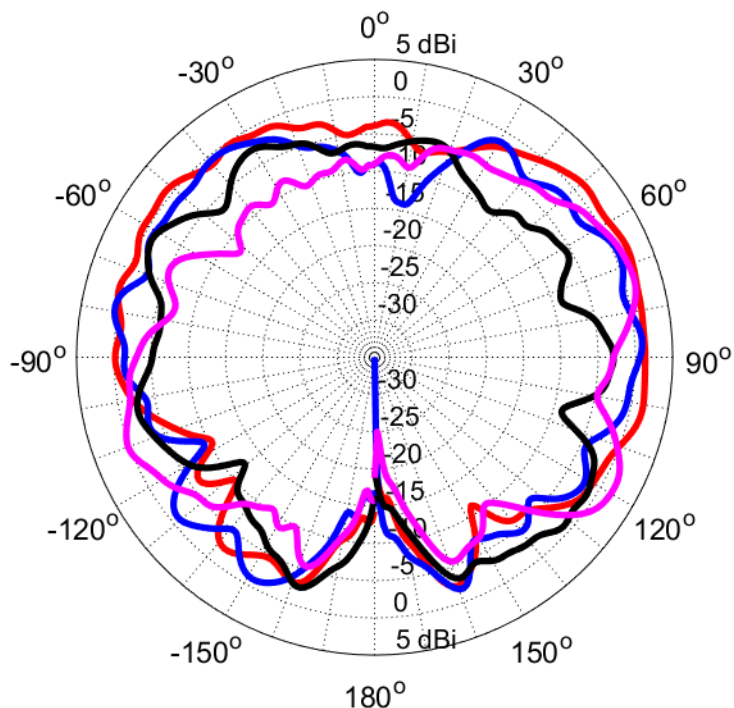
7125 MHz



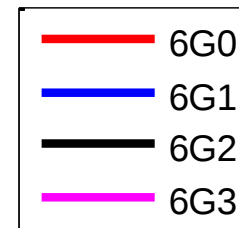
Elevation (Front to Back) Cut - Power Sum System Coverage – 6 GHz Antennas



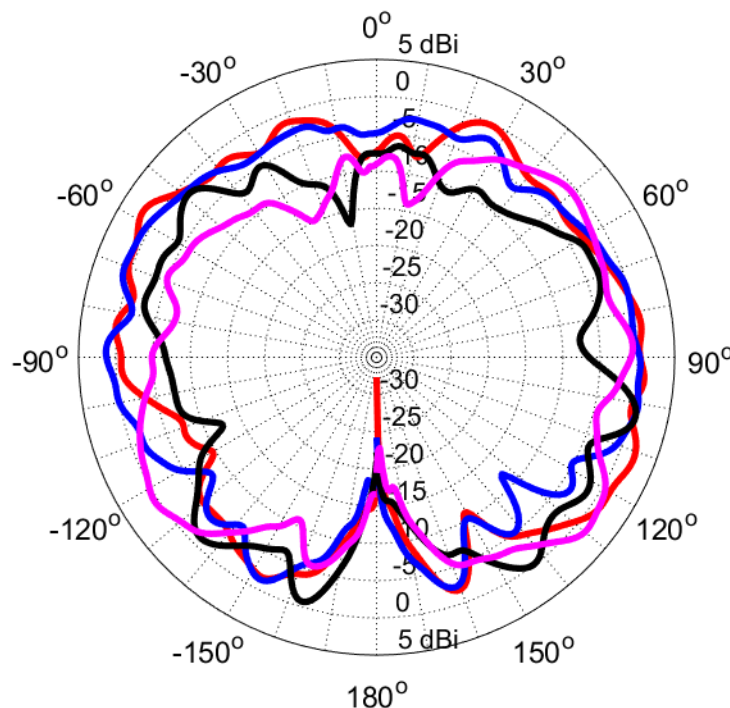
EL1 (Front-to-Back) Cut @ 5925MHz



5925 MHz

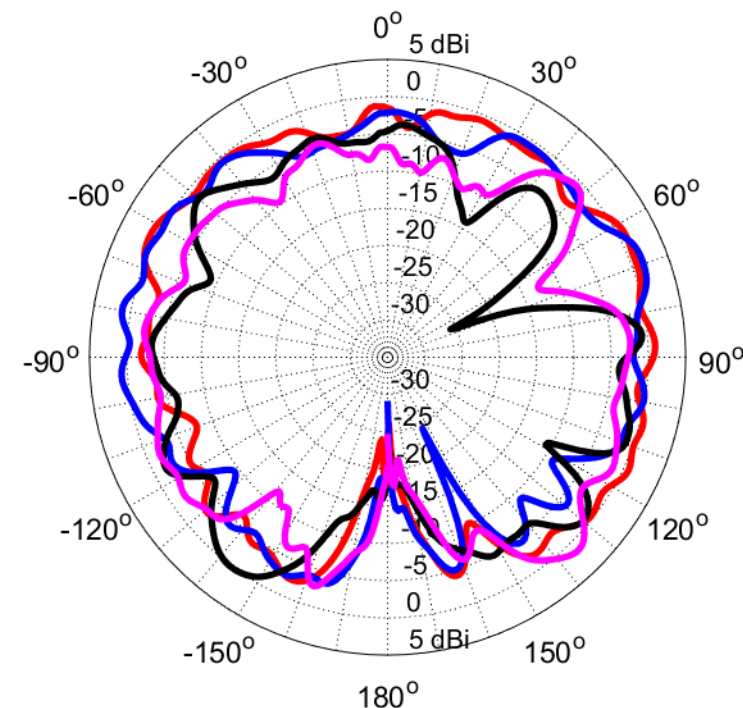


EL1 (Front-to-Back) Cut @ 6500MHz

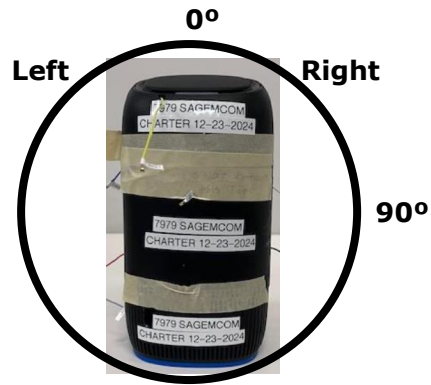


6500 MHz

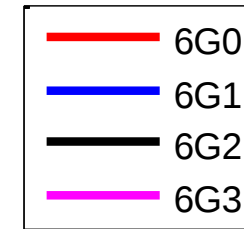
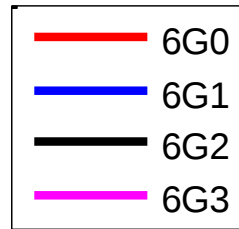
EL1 (Front-to-Back) Cut @ 7125MHz



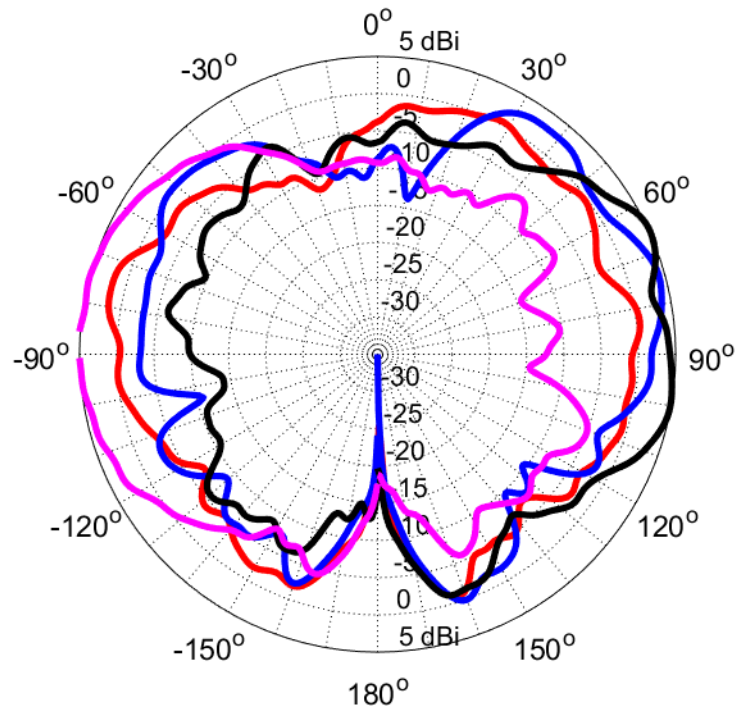
7125 MHz



Elevation (Side to Side) Cut - Power Sum System Coverage – 6 GHz Antennas

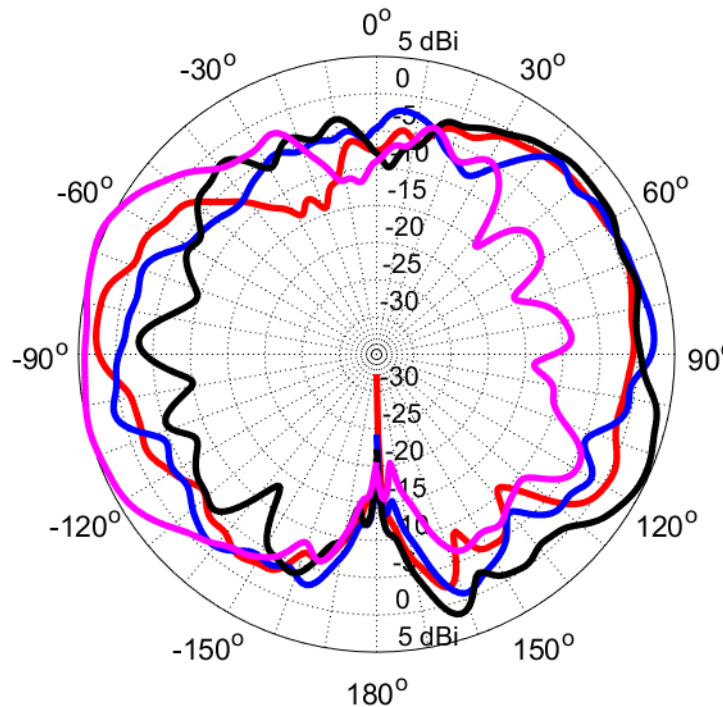


EL2 (Side-to-Side) Cut @ 5925MHz



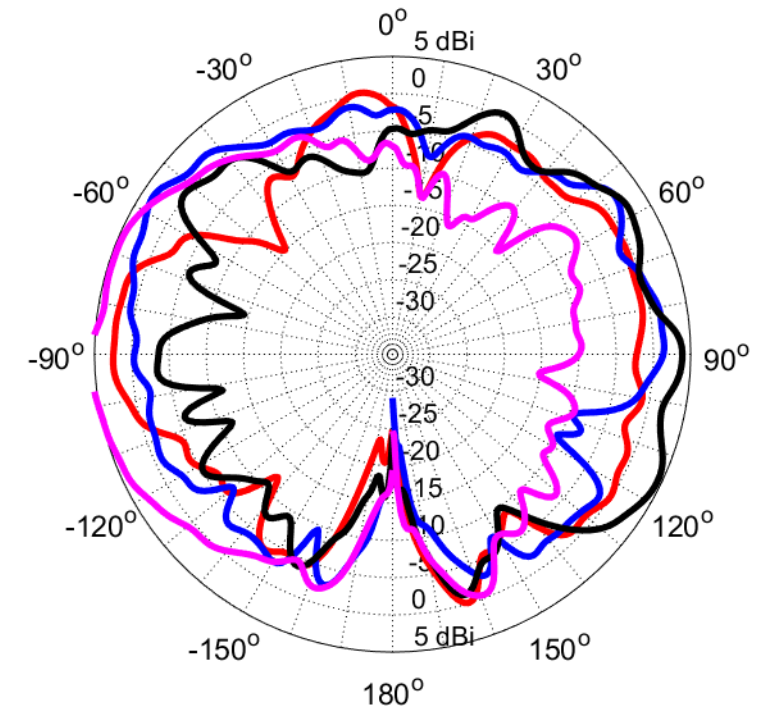
5925 MHz

EL2 (Side-to-Side) Cut @ 6500MHz



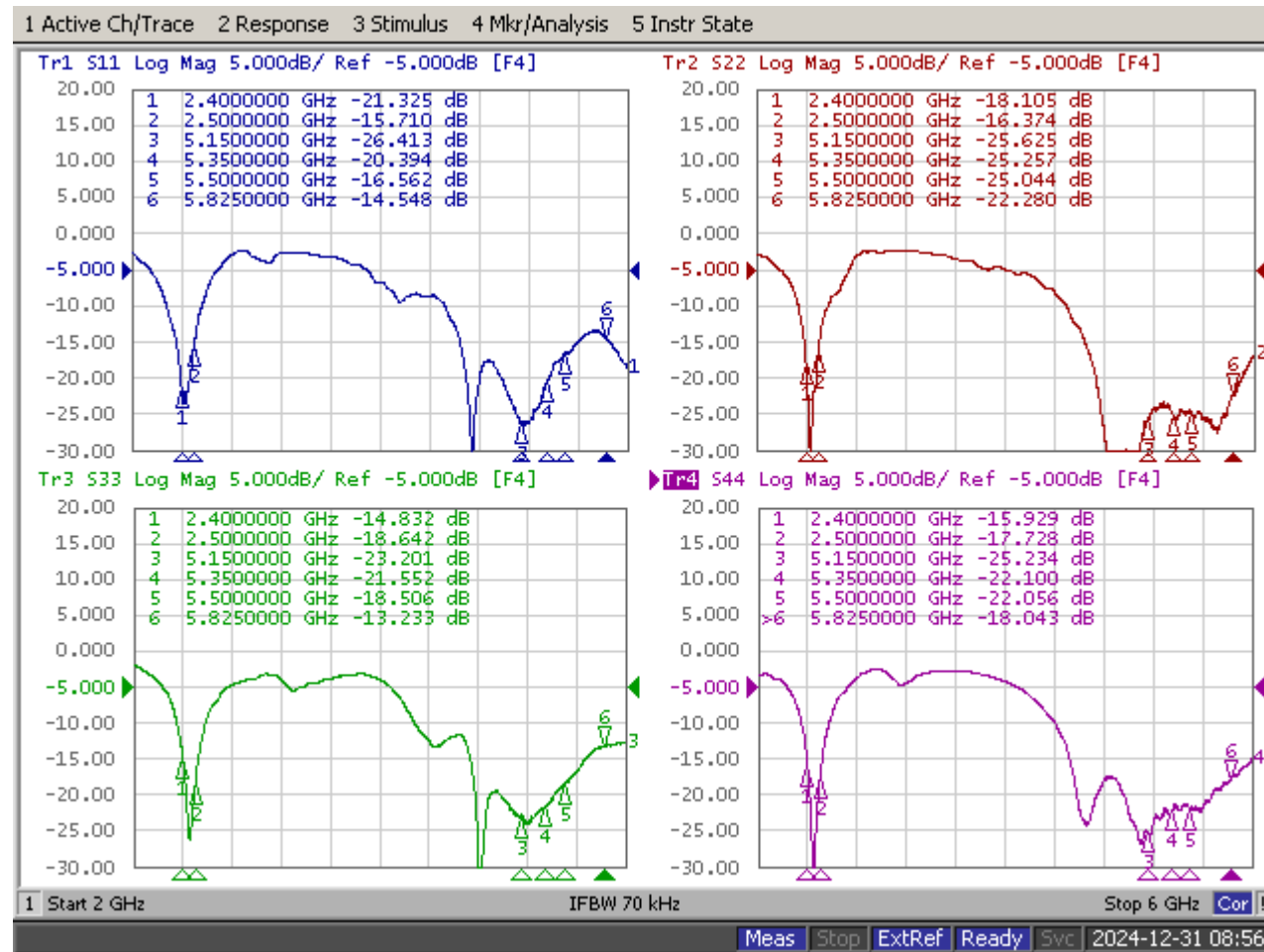
6500 MHz

EL2 (Side-to-Side) Cut @ 7125MHz

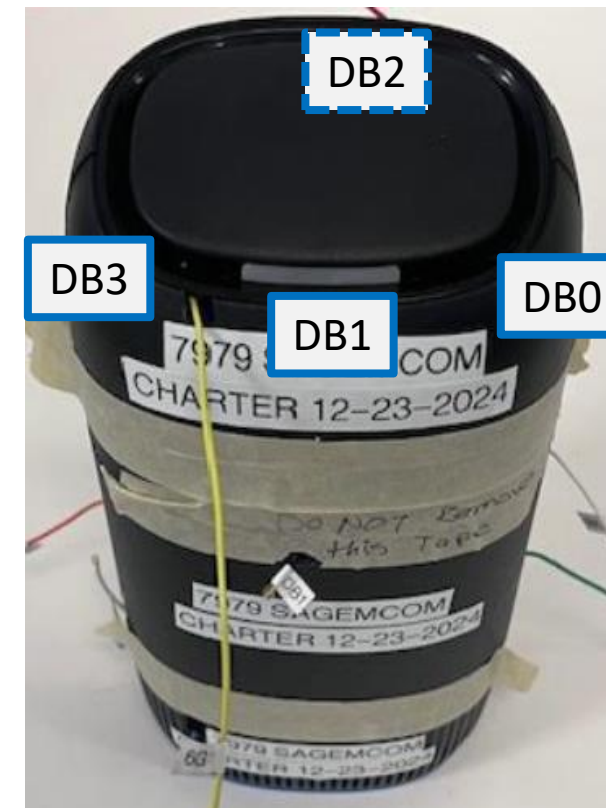


7125 MHz

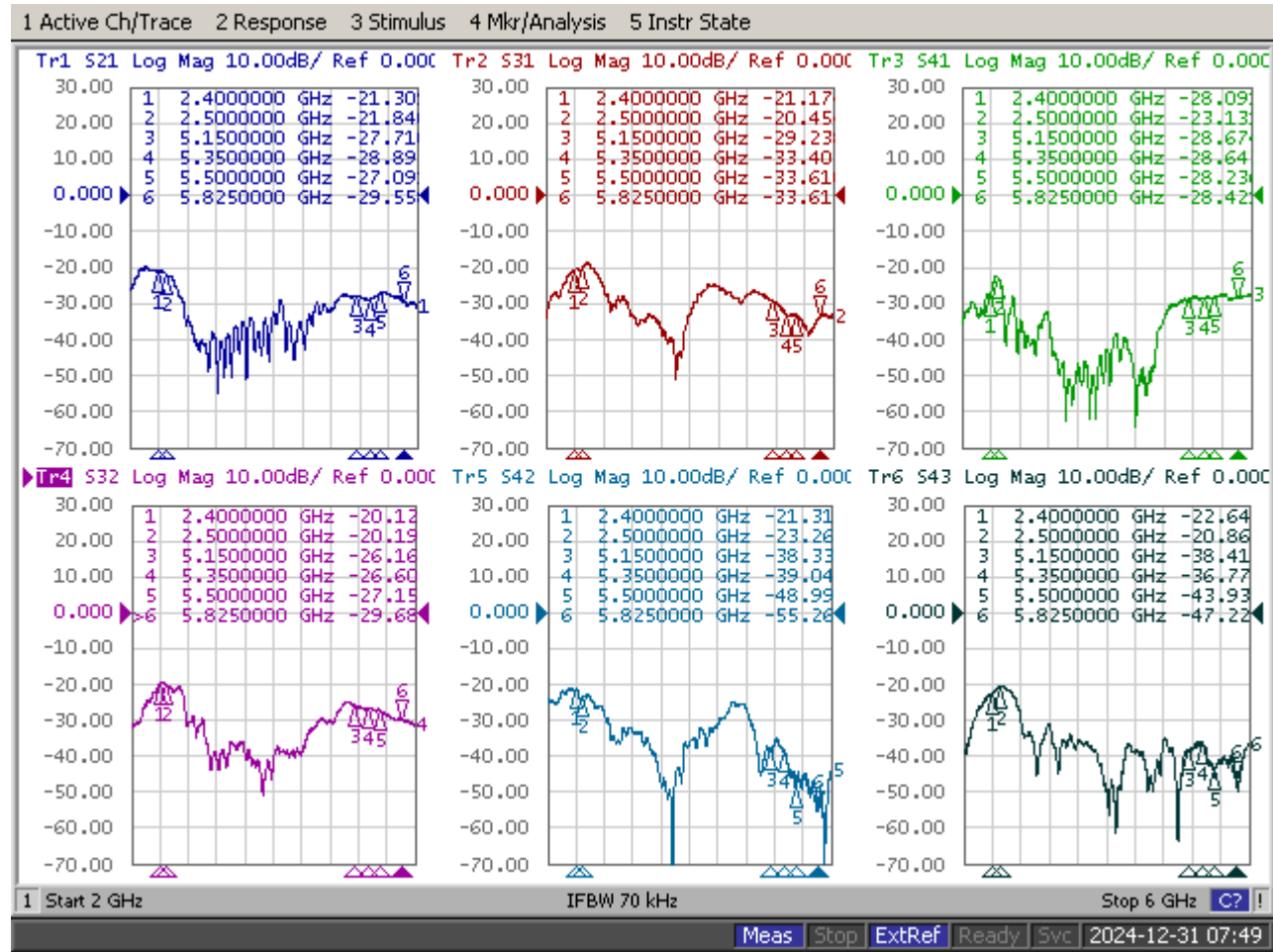
Return Loss of the Dual Band Antennas



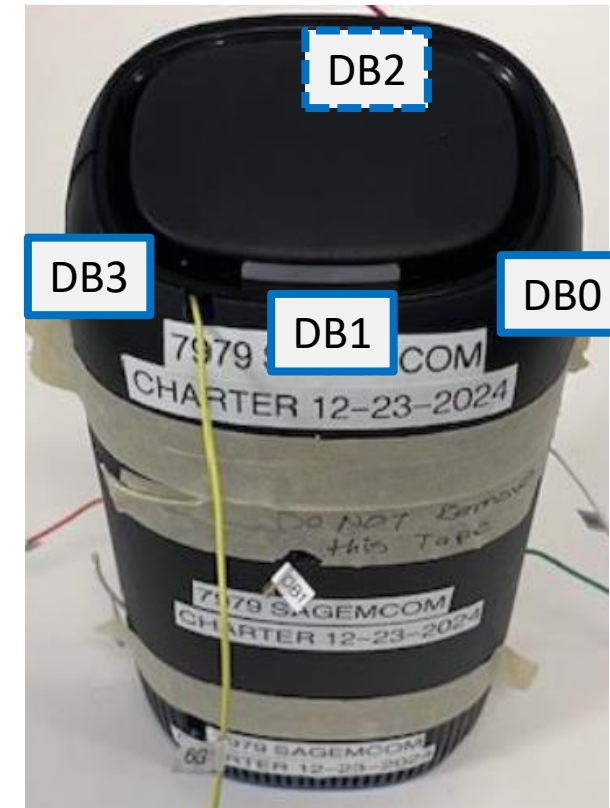
Port 1 = DB0	Port 2 = DB1
Port 3 = DB2	Port 4 = DB3



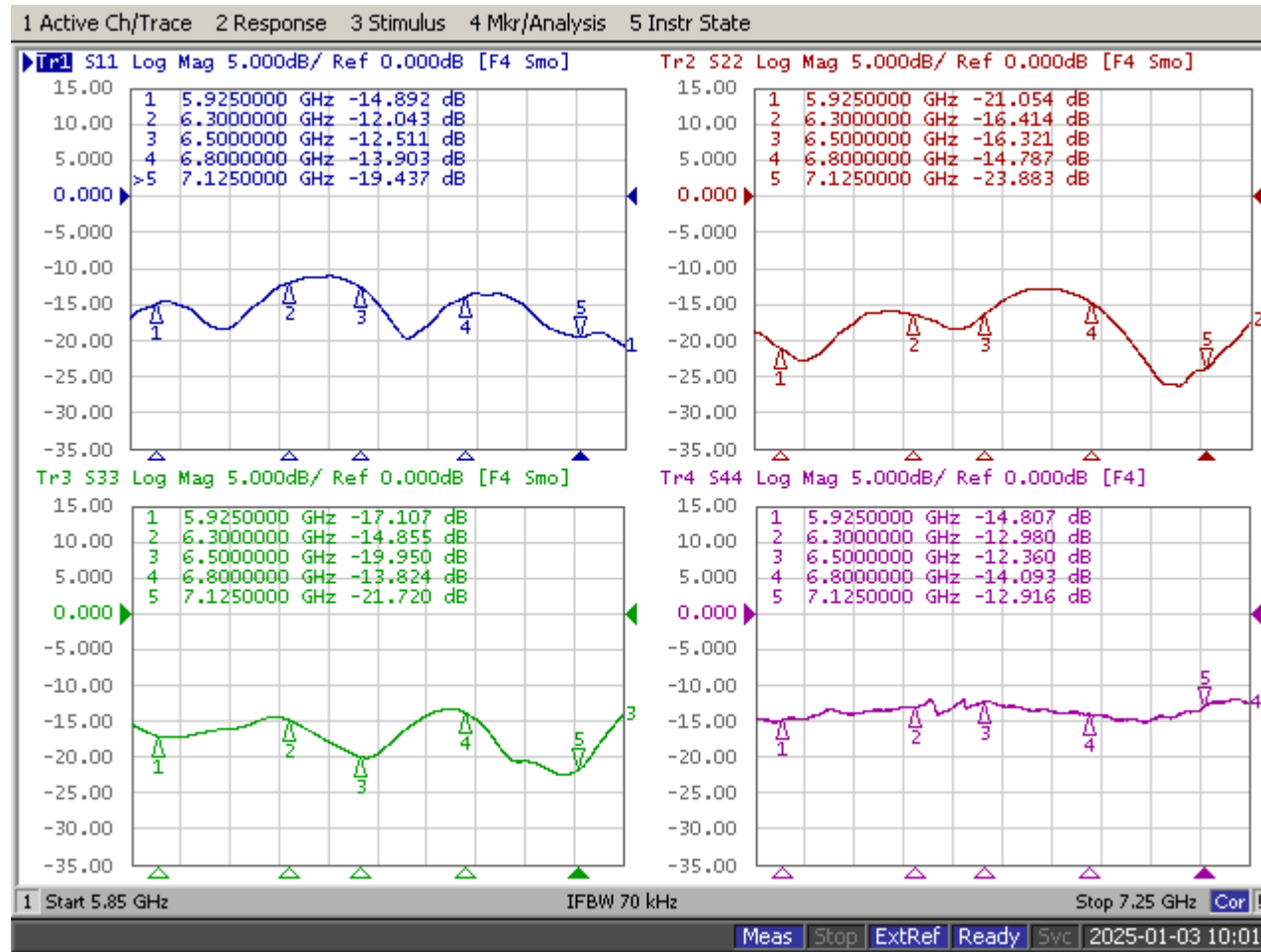
Isolation between the Dual Band Antennas



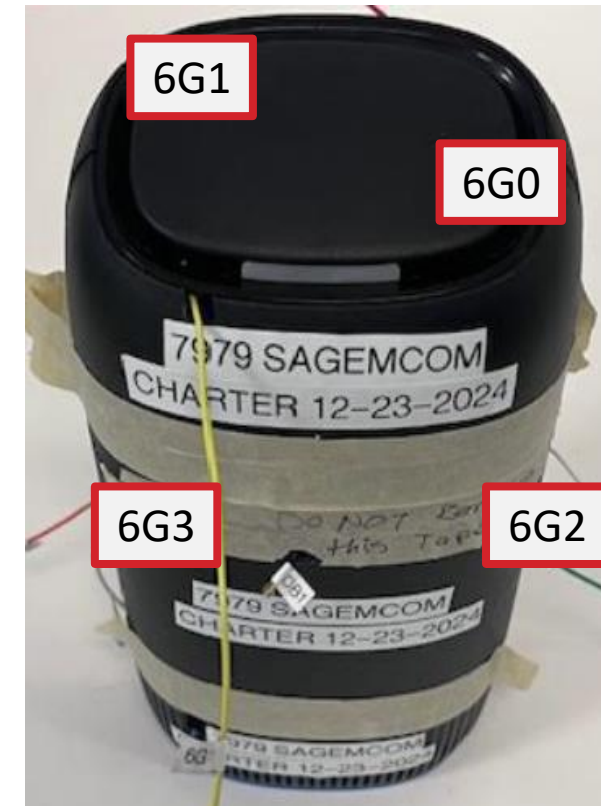
Port 1 = DB0	Port 2 = DB1
Port 3 = DB2	Port 4 = DB3



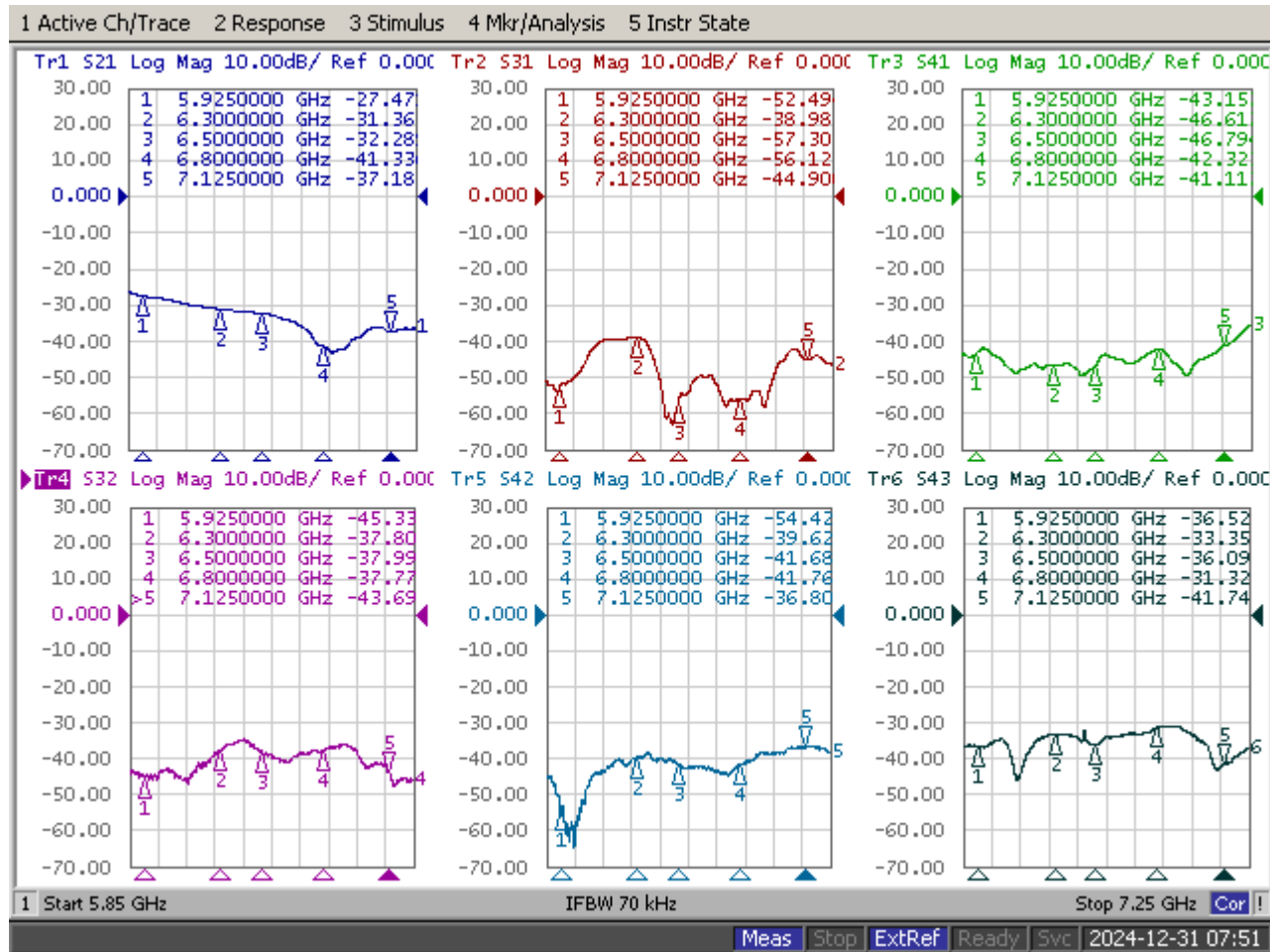
Return Loss of 6 GHz Antennas



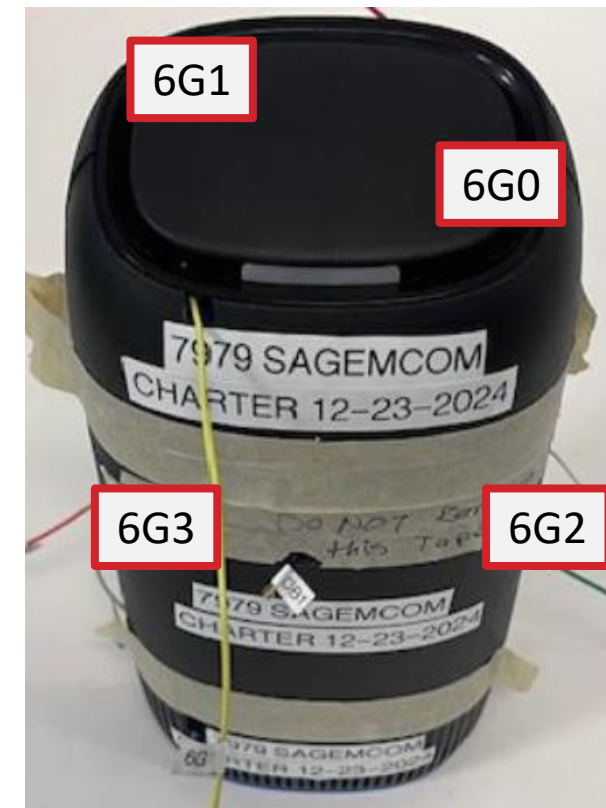
Port 1= 6G0	Port 2=6G1
Port 3= 6G2	Port 4= 6G3



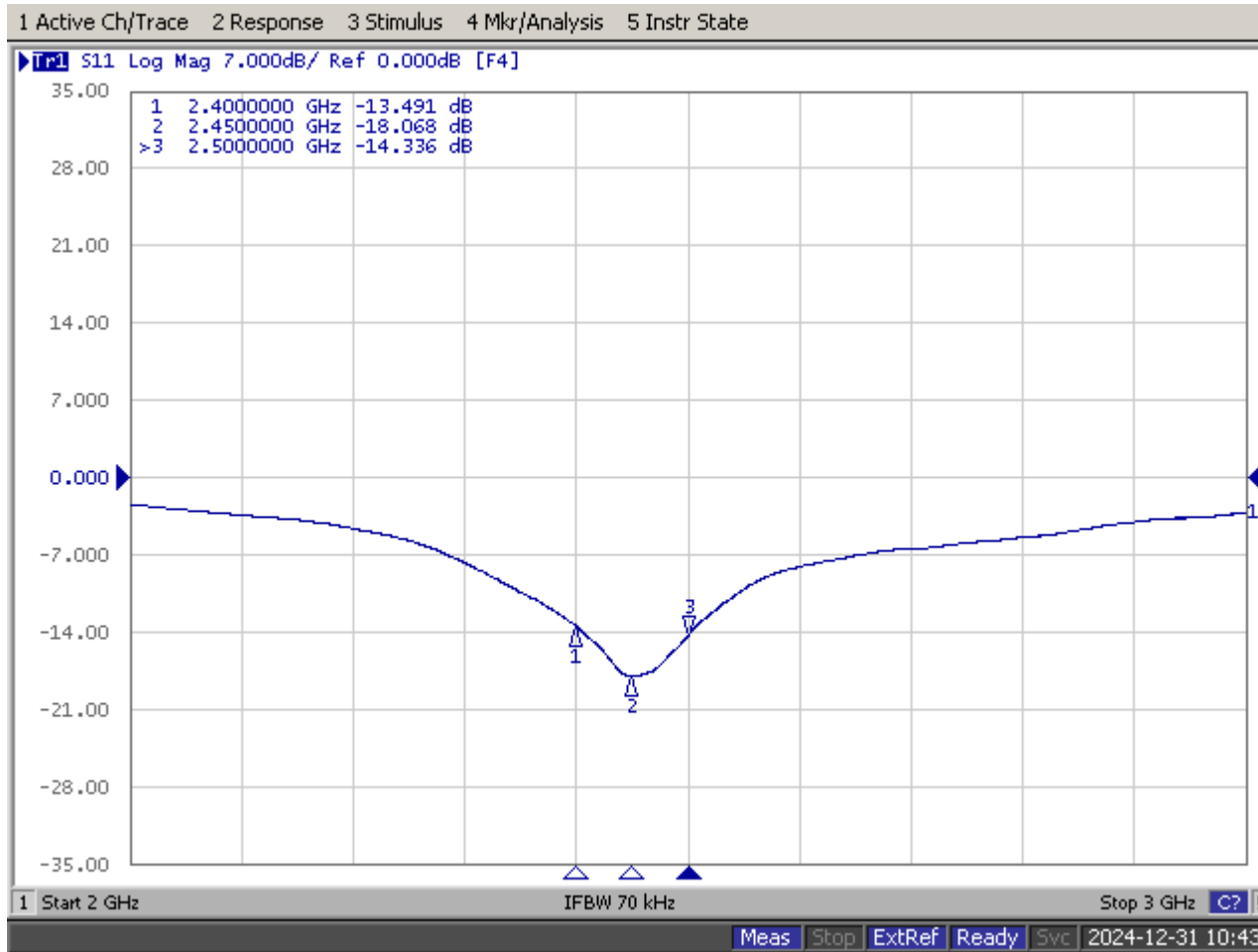
Isolation between 6 GHz Antennas



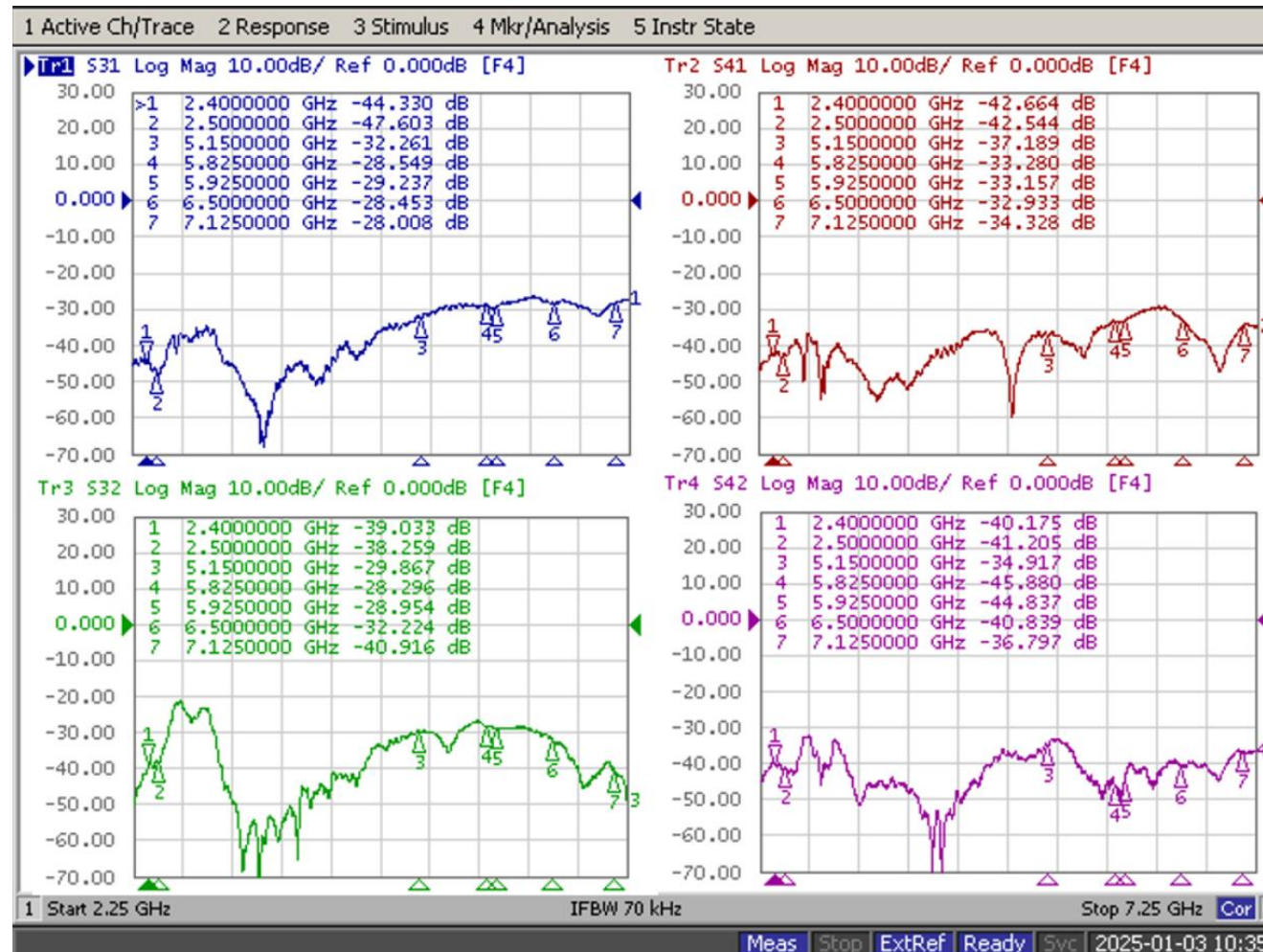
Port 1= 6G0	Port 2=6G1
Port 3= 6G2	Port 4= 6G3



Return Loss of IoT antennas



Isolation between DB and 6 GHz Antennas

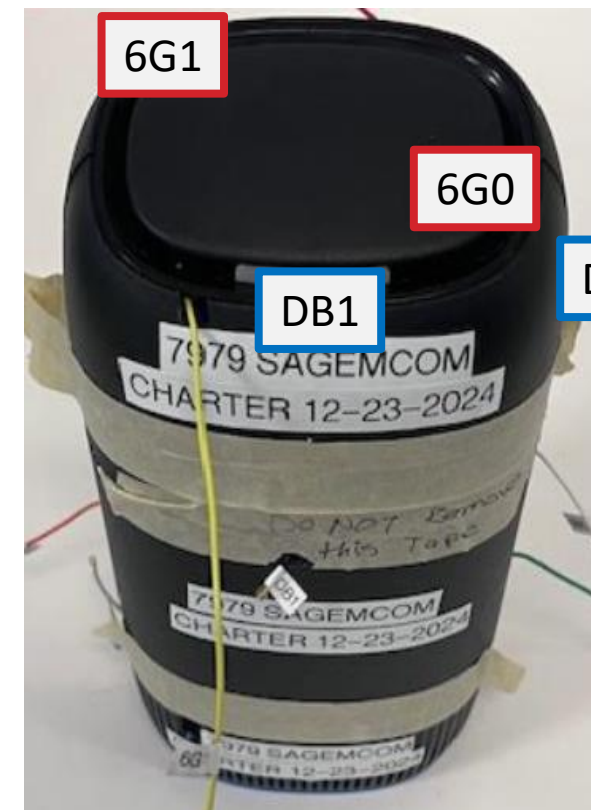


Port 1= DB0

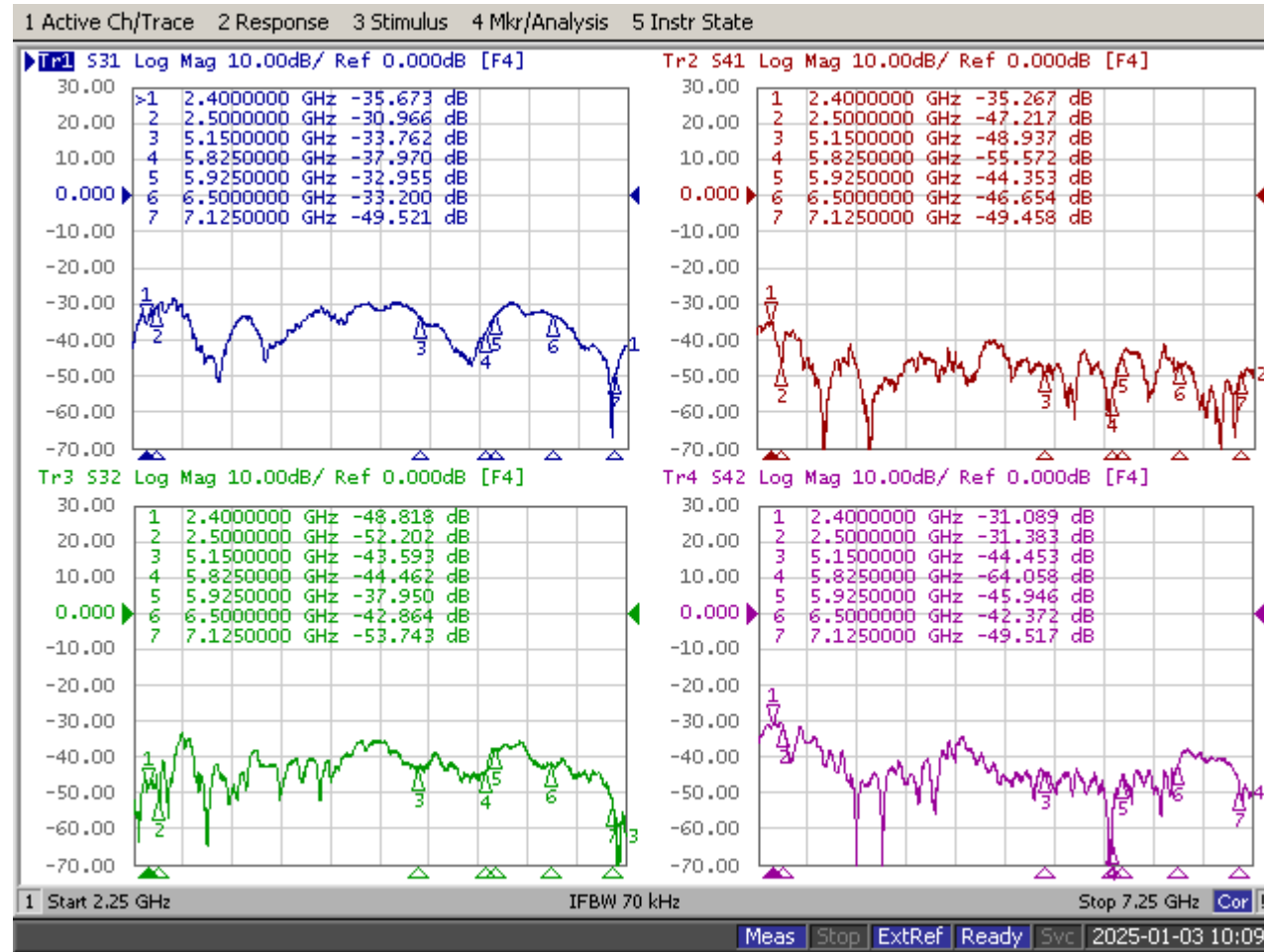
Port 2= DB1

Port 3= 6G0

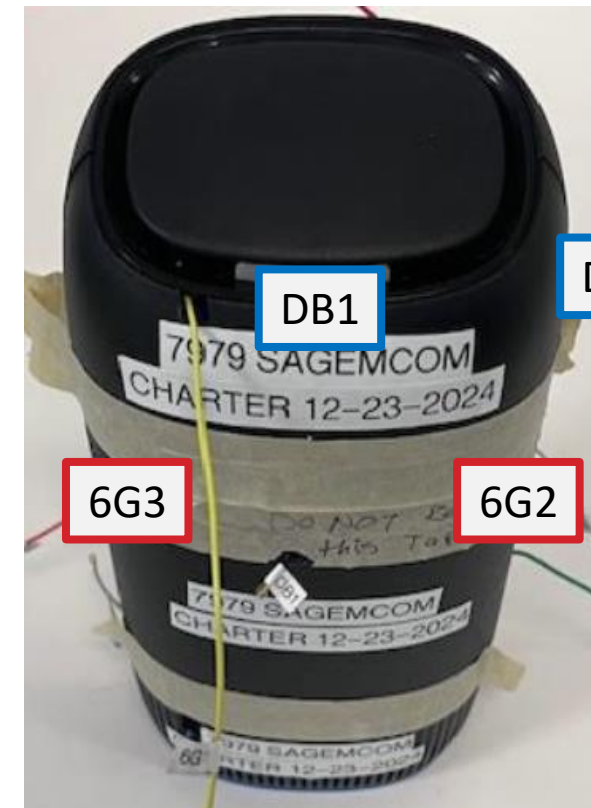
Port 4= 6G1



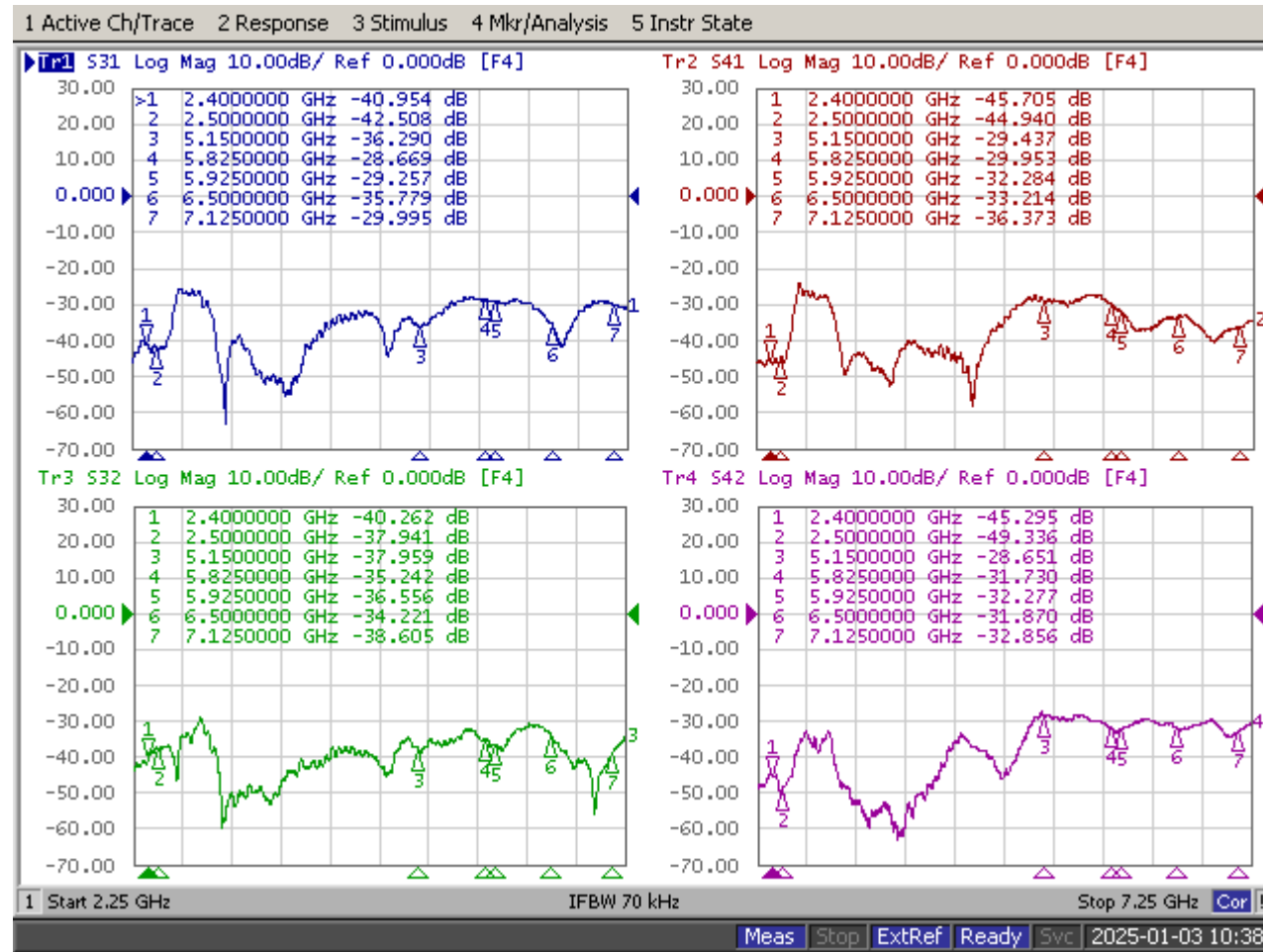
Isolation between DB and 6 GHz Antennas



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



Isolation between DB and 6 GHz Antennas

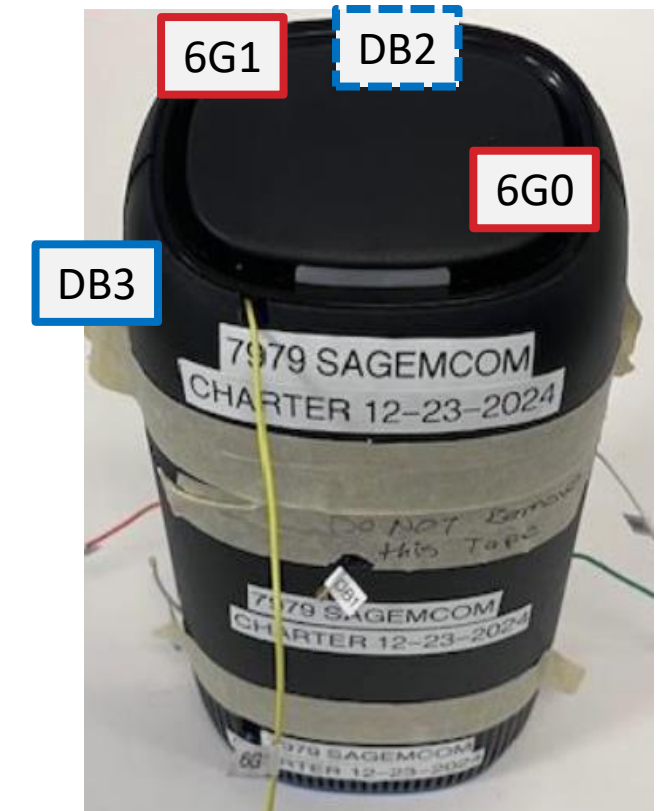


Port 1= DB2

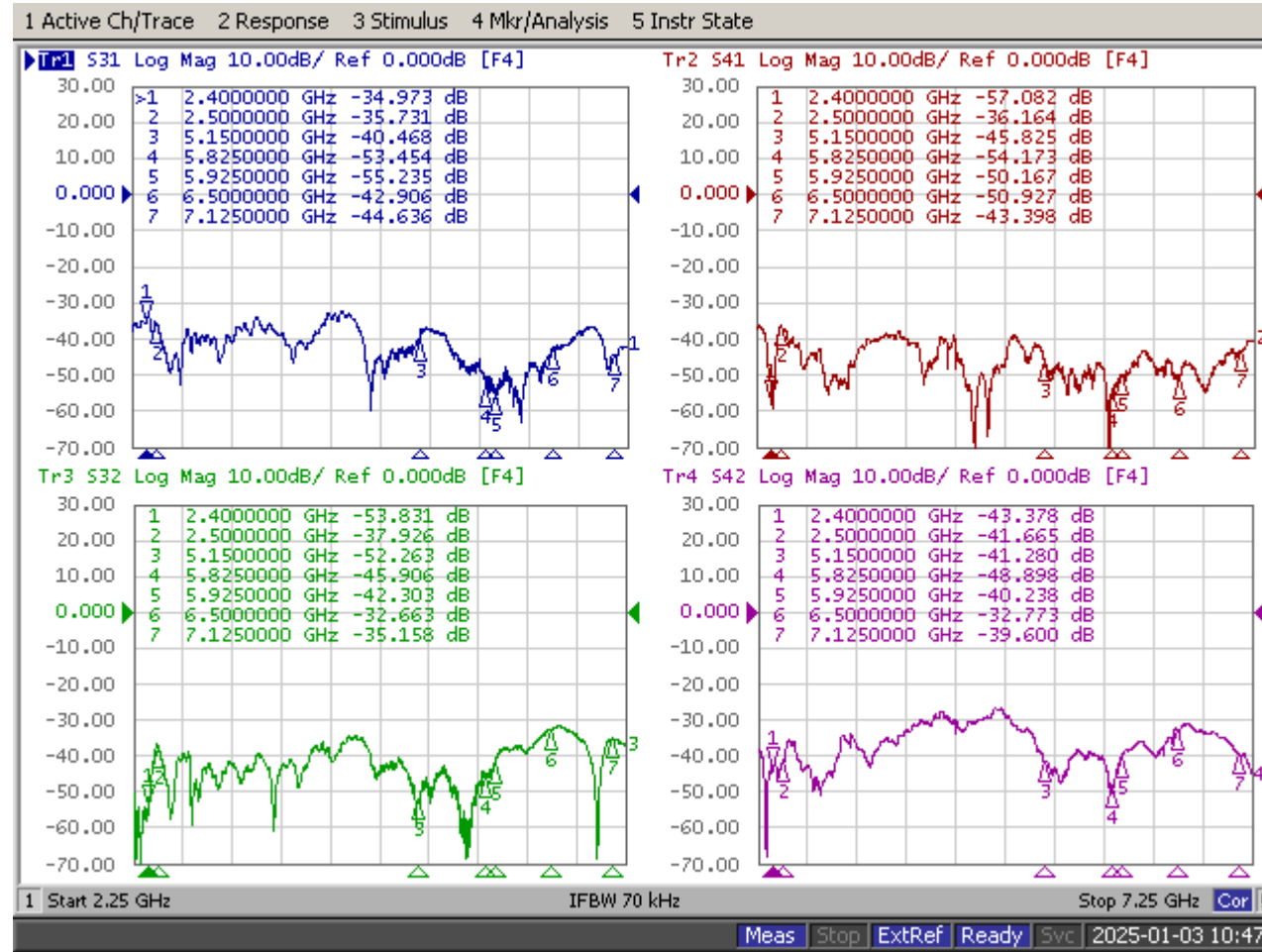
Port 2= DB3

Port 3= 6G0

Port 4= 6G1



Isolation between DB and 6 GHz Antennas

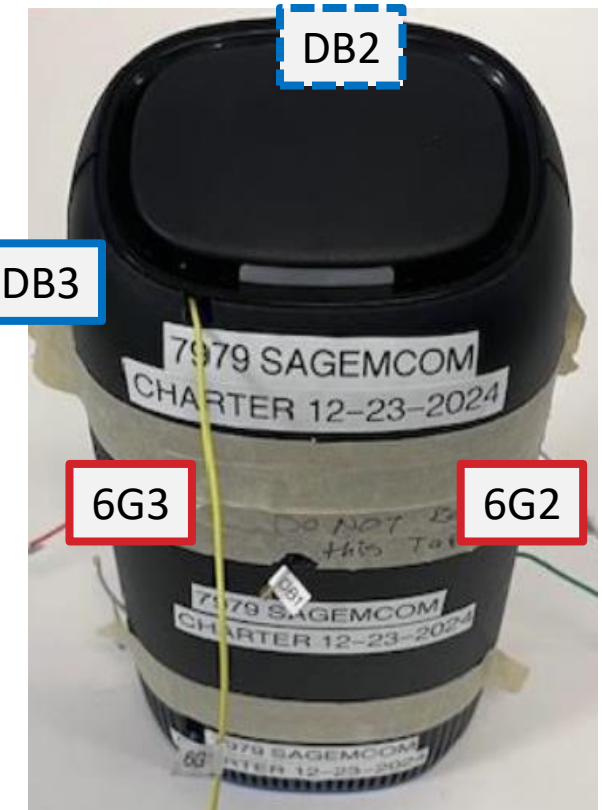


Port 1 = DB2

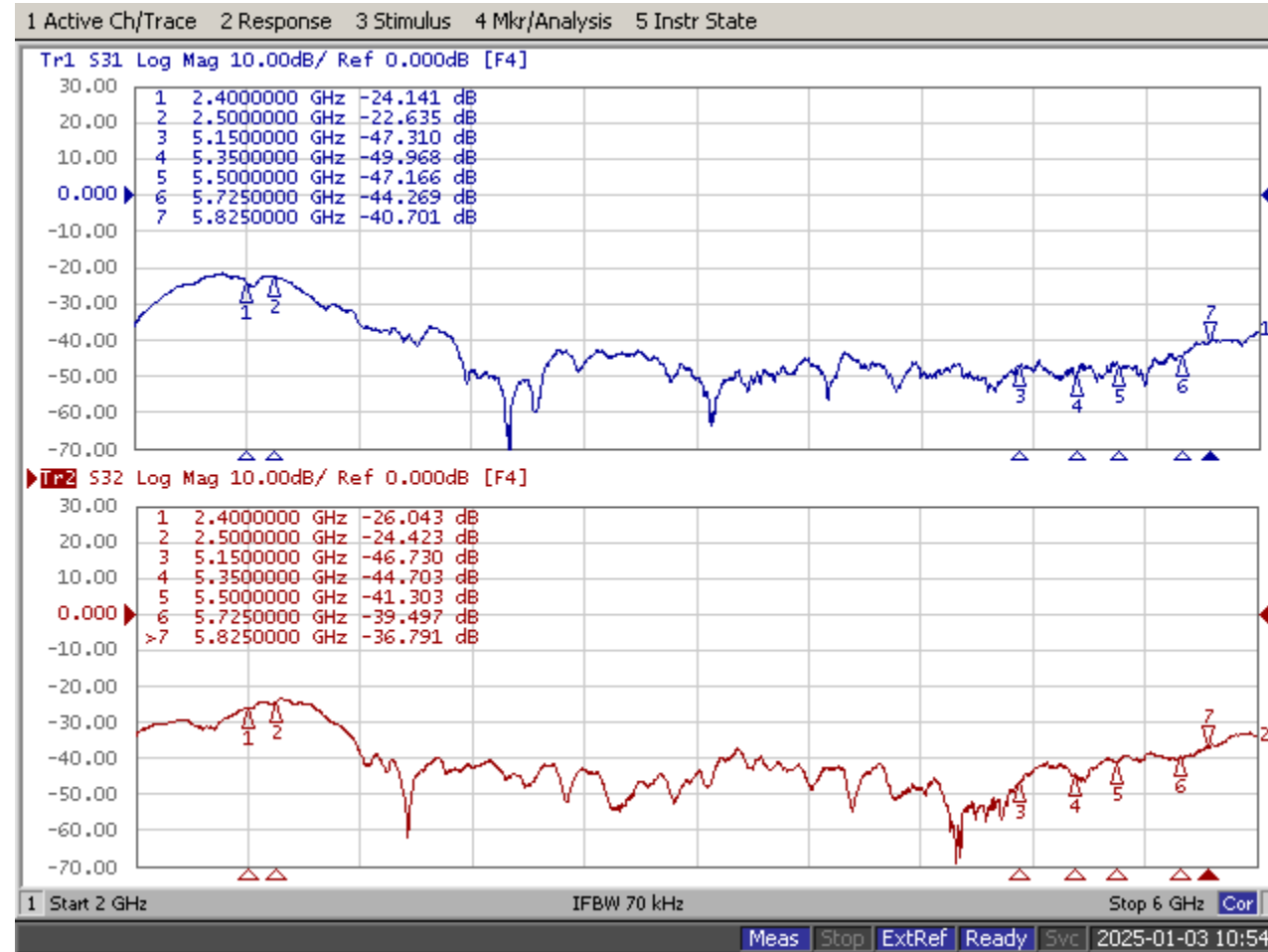
Port 2 = DB3

Port 3 = 6G2

Port 4 = 6G3



Isolation between DB and IoT Antennas



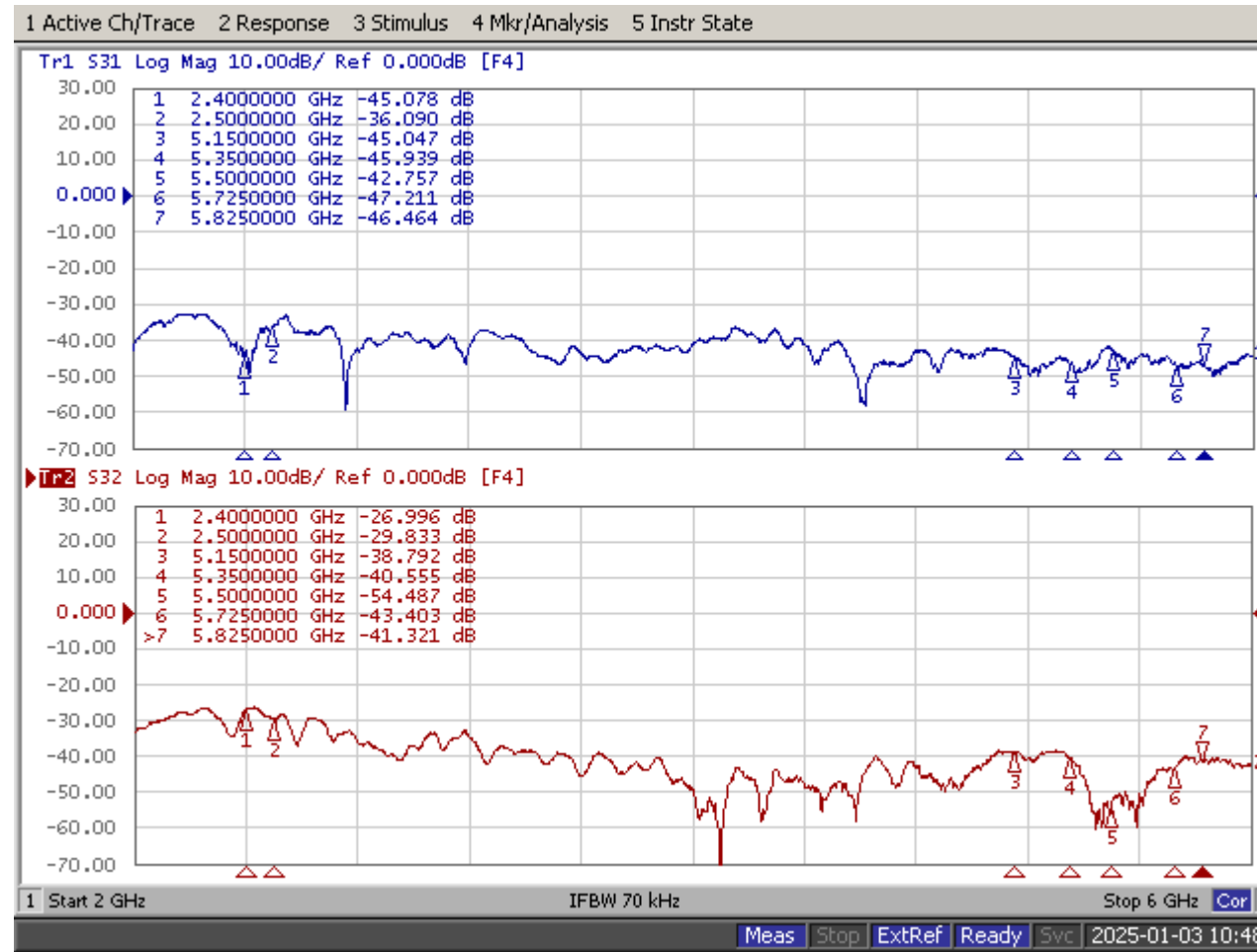
Port 1 = DB0

Port 2 = DB1

Port 3 = IoT2

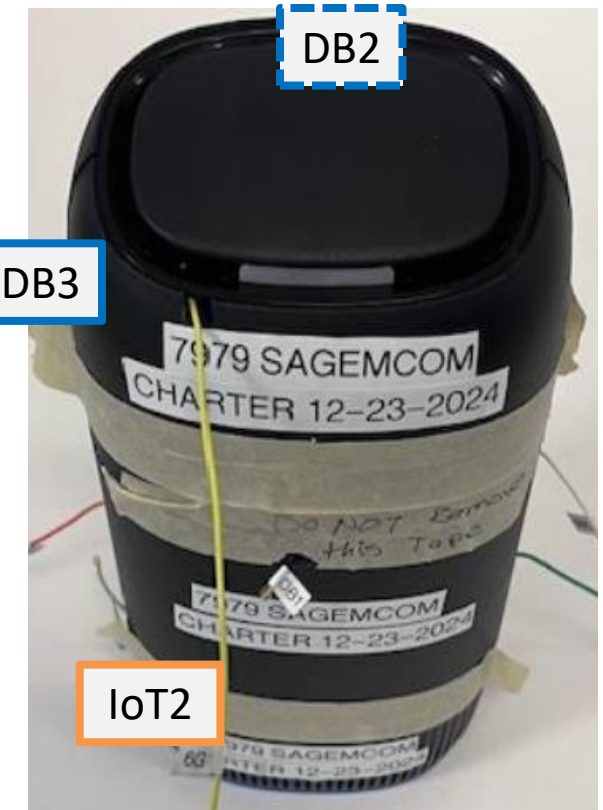


Isolation between DB and IoT Antennas

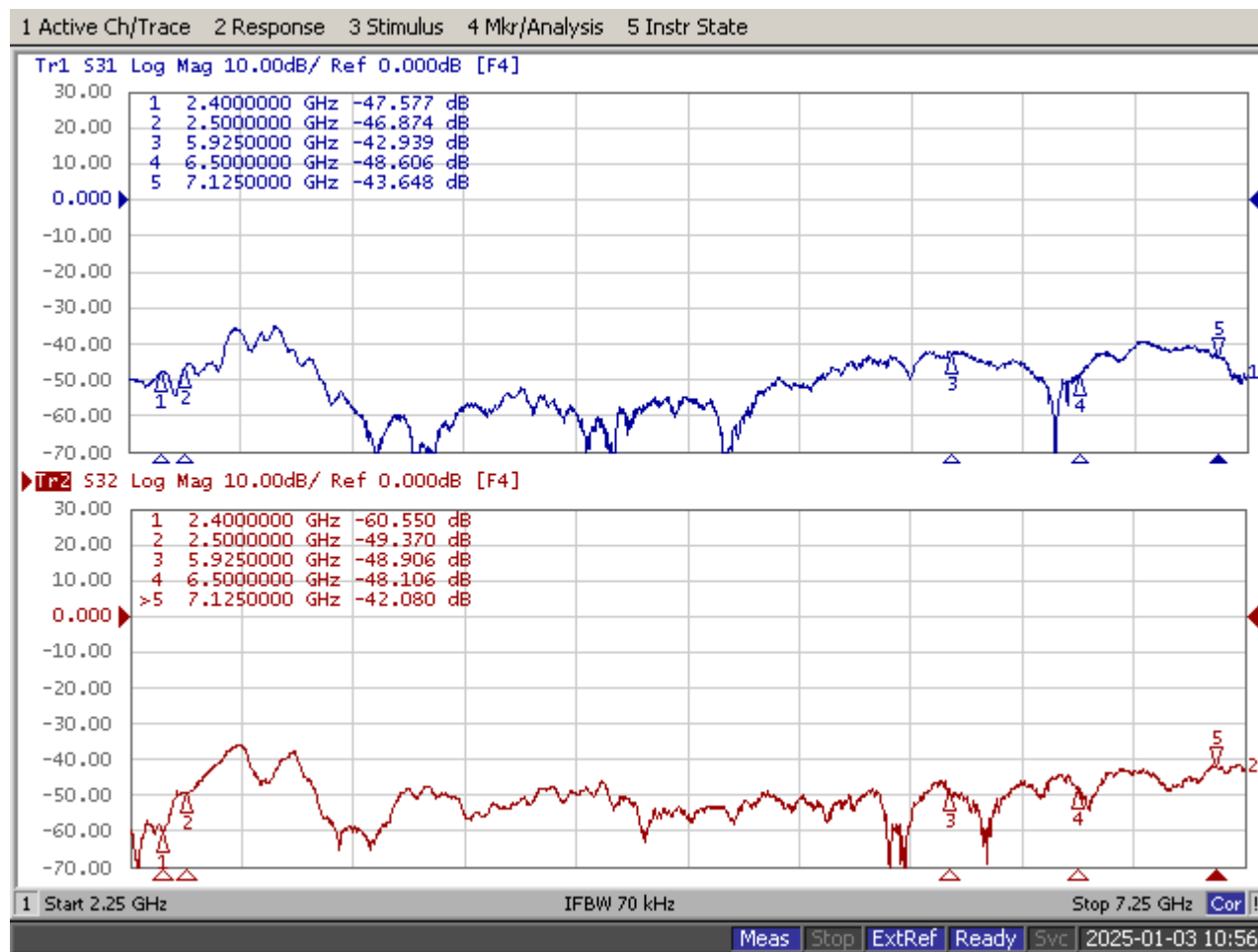


Port 1 = DB2 Port 2 = DB3

Port 3 = IoT2



Isolation between 6 GHz and IoT Antennas

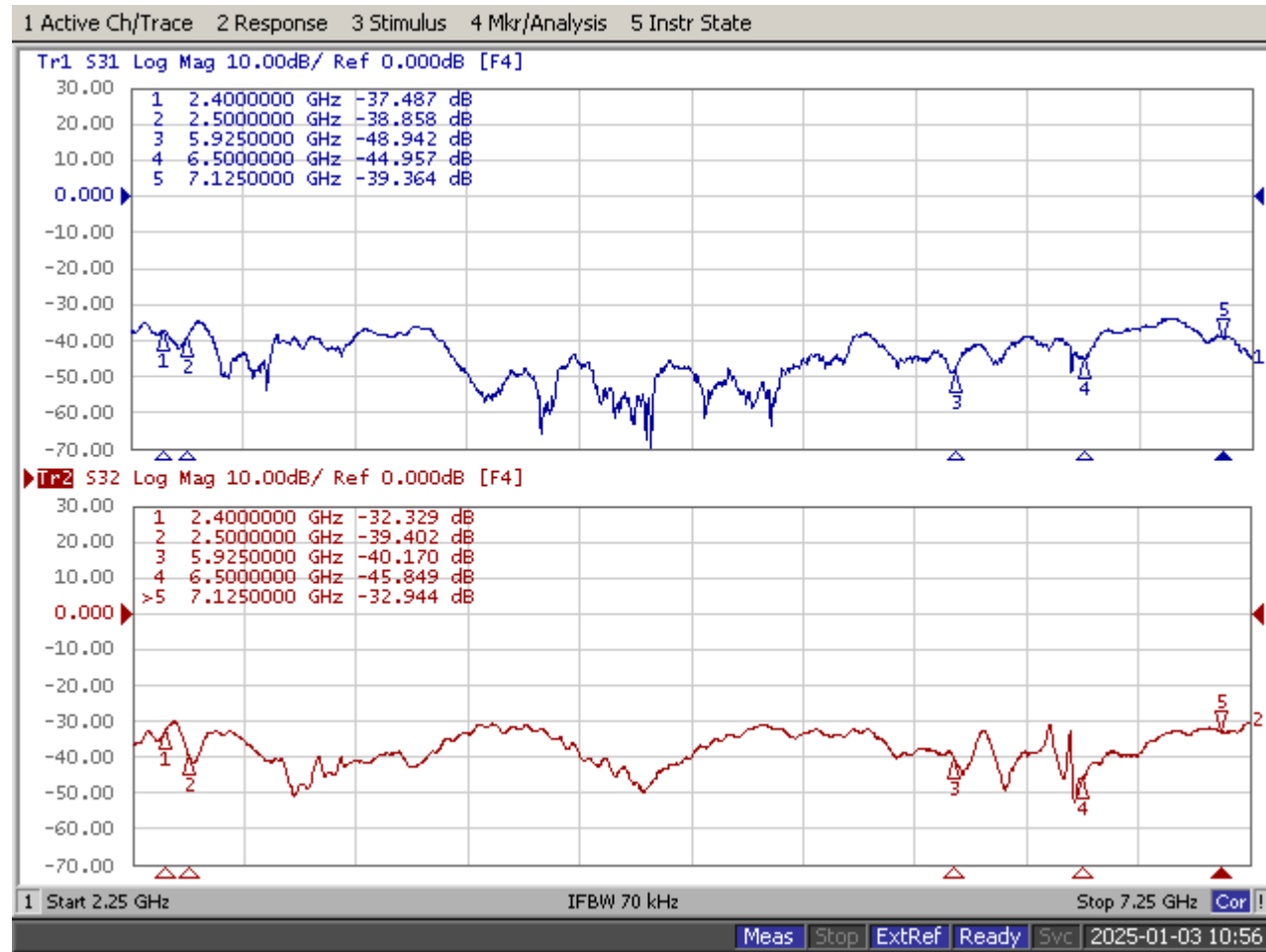


Port 1 = 6G0 Port 2 = 6G1

Port 3 = IoT2

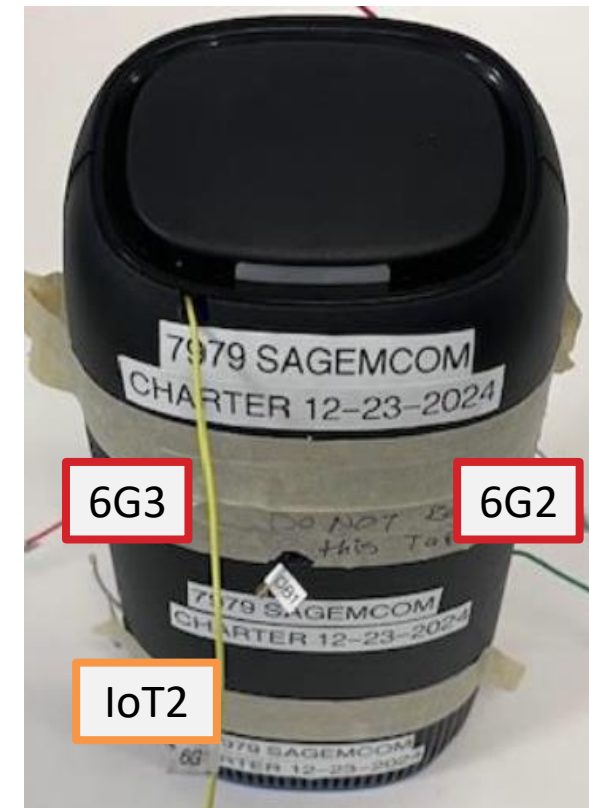


Isolation between 6 GHz and IoT Antennas



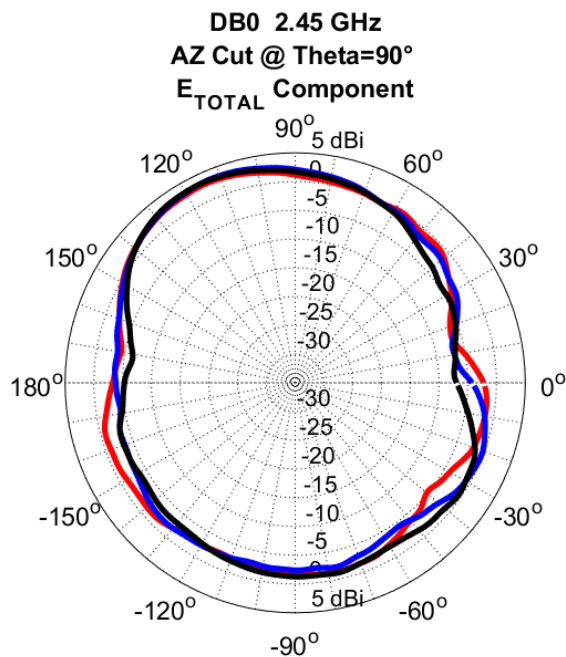
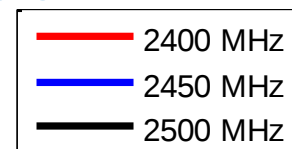
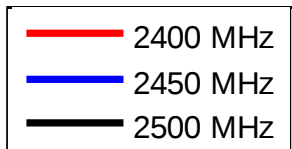
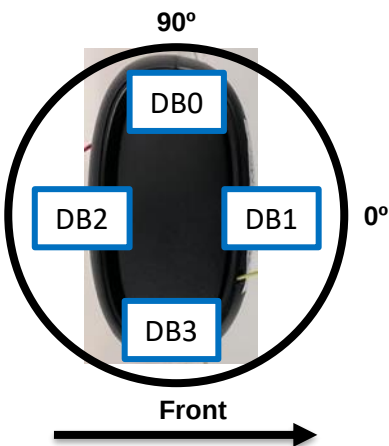
Port 1 = 6G2 Port 2 = 6G3

Port 3 = IoT2

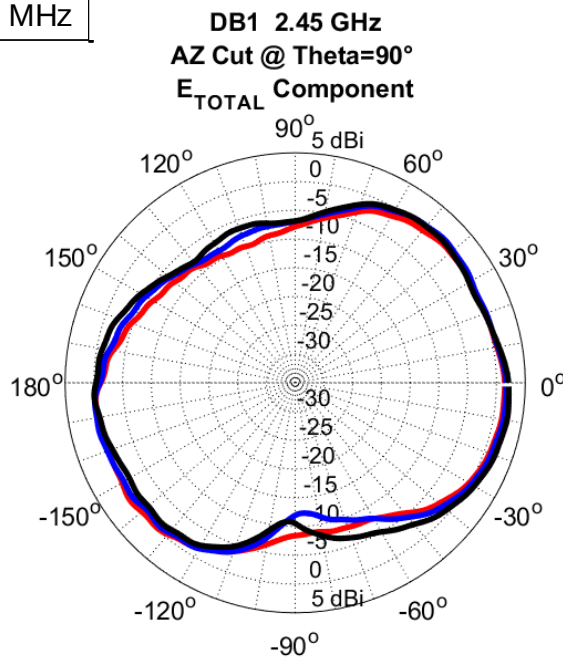


Azimuth Cut - Power Sum

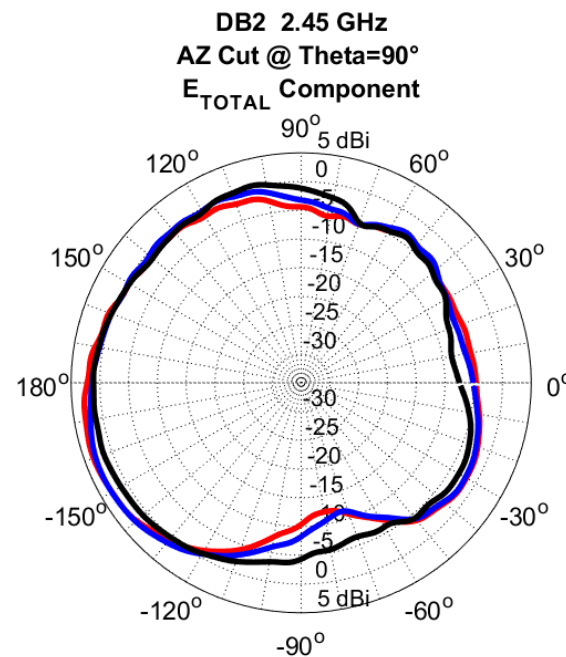
DB 2.45 GHz Antennas



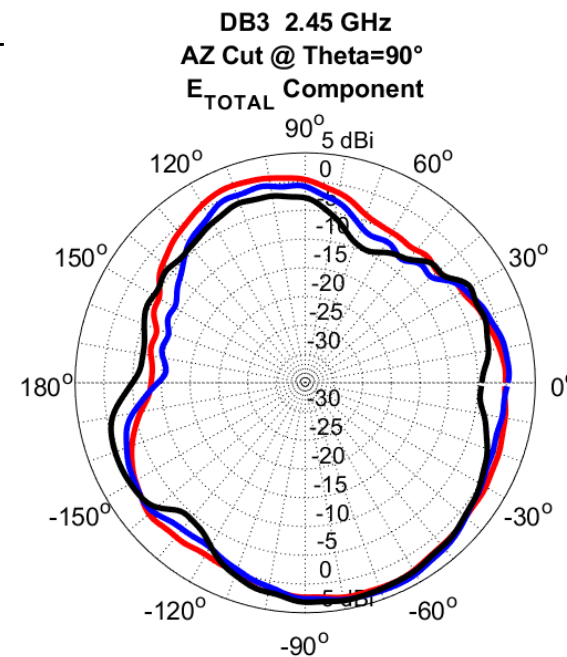
DB0



DB1



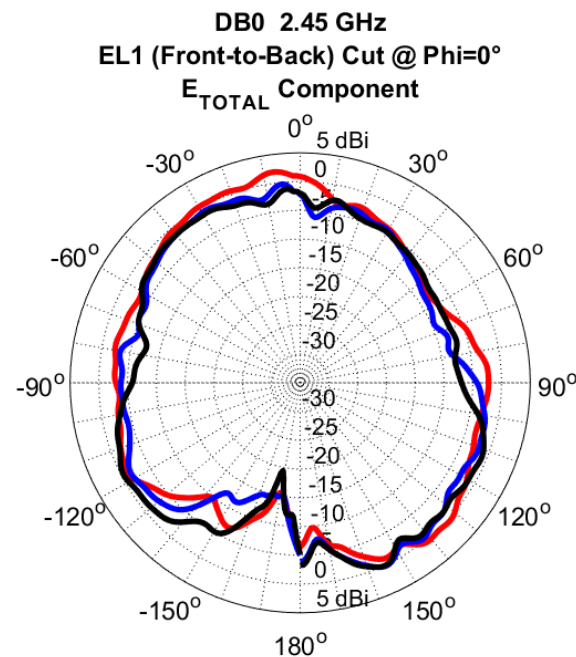
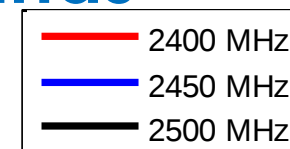
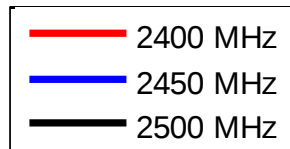
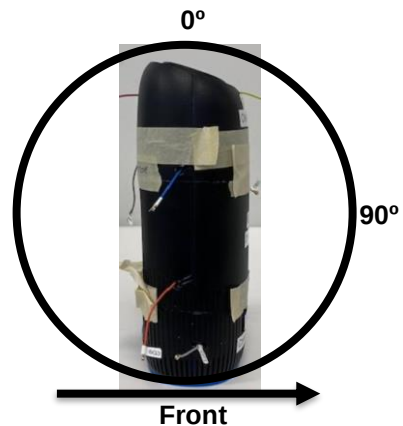
DB2



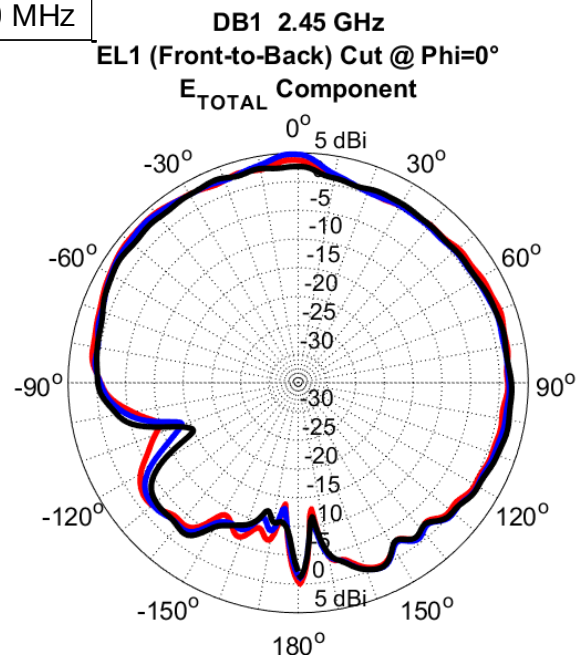
DB3

Elevation (Front to Back) Cut - Power Sum

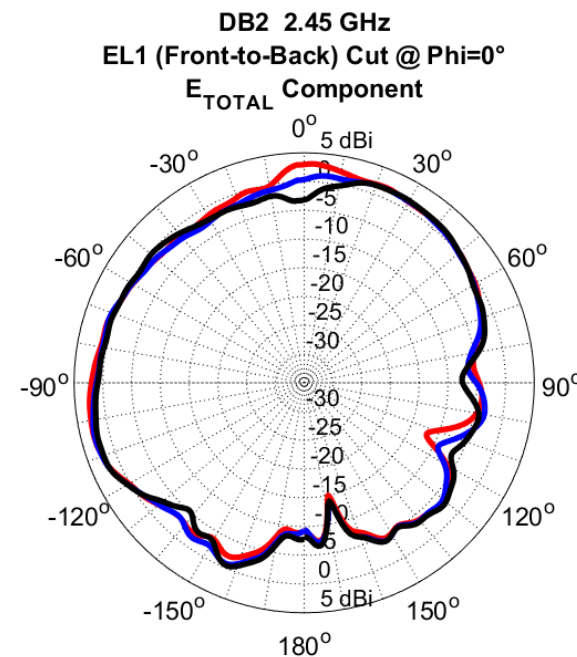
DB 2.45 GHz Antennas



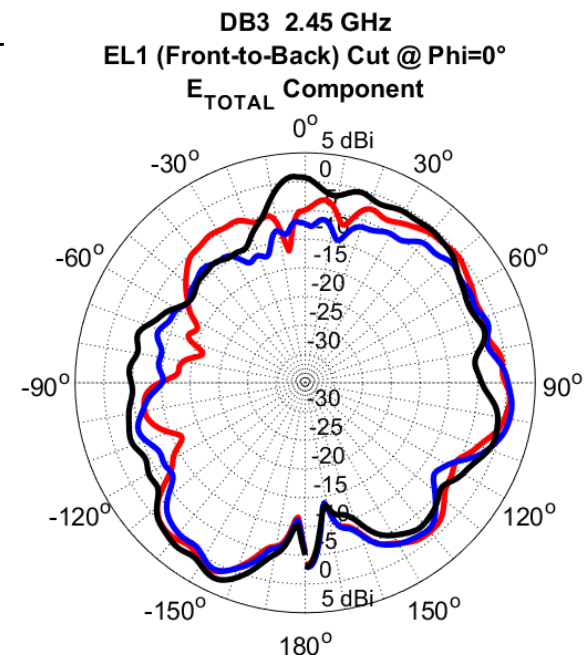
DB0



DB1

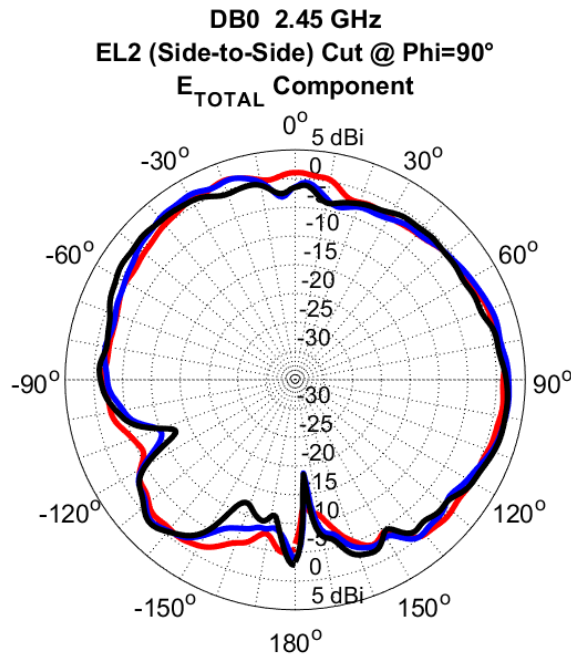
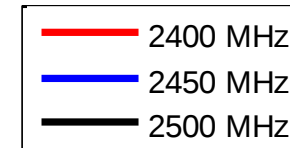
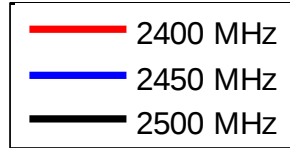
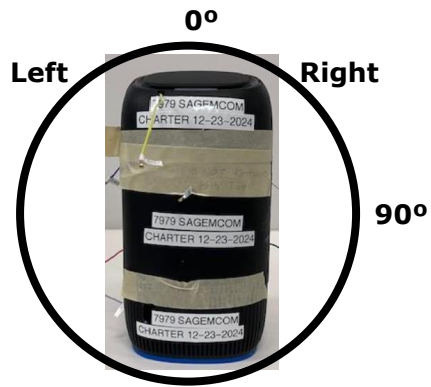


DB2

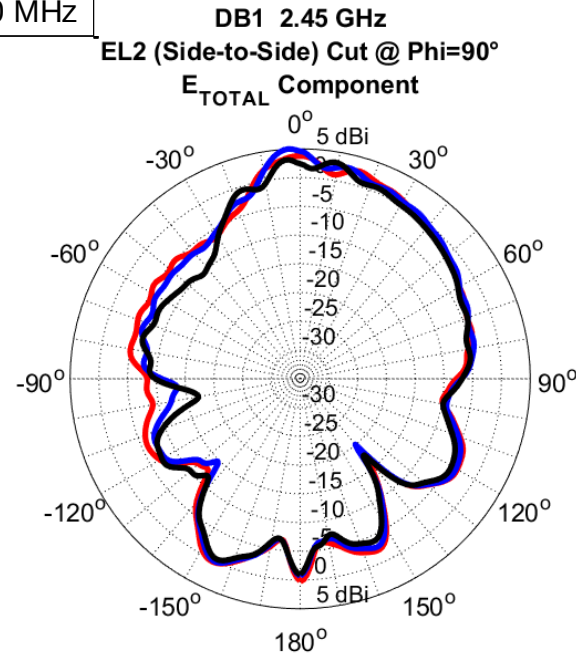


DB3

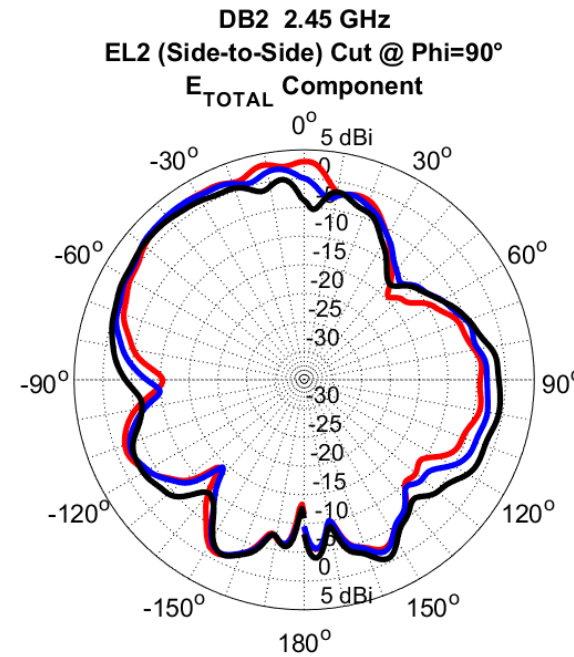
Elevation (Side to Side) Cut - Power Sum DB 2.45 GHz Antennas



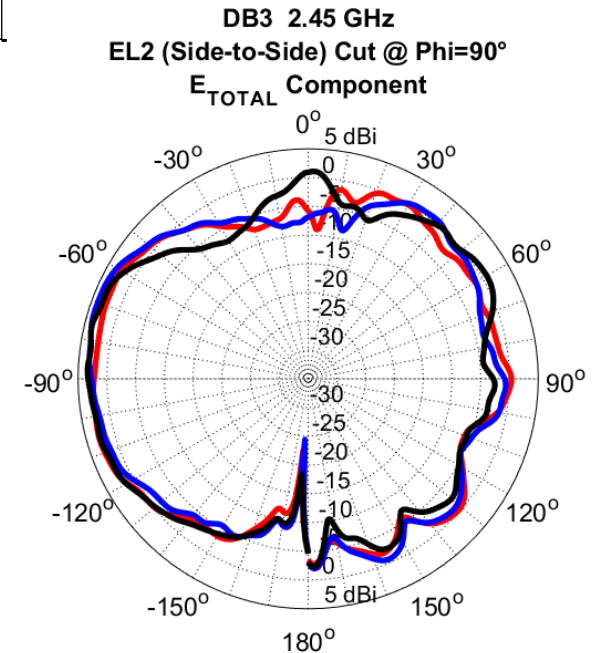
DB0



DB1



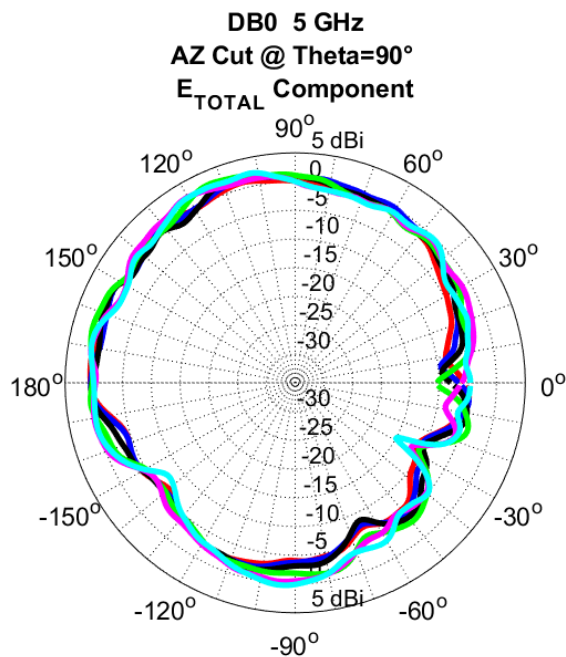
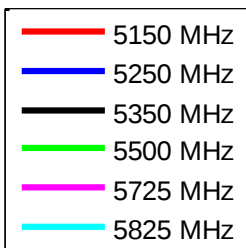
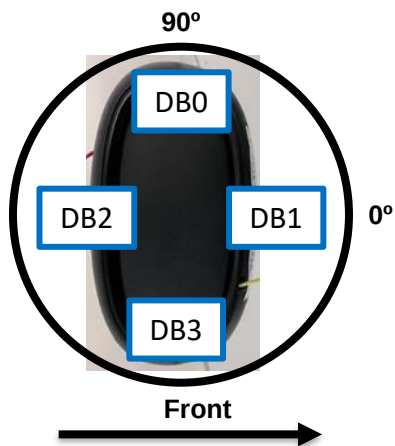
DB2



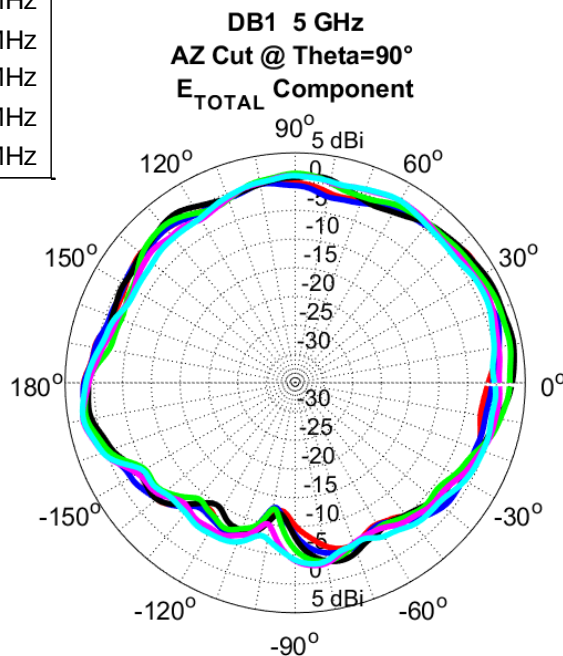
DB3

Azimuth Cut - Power Sum

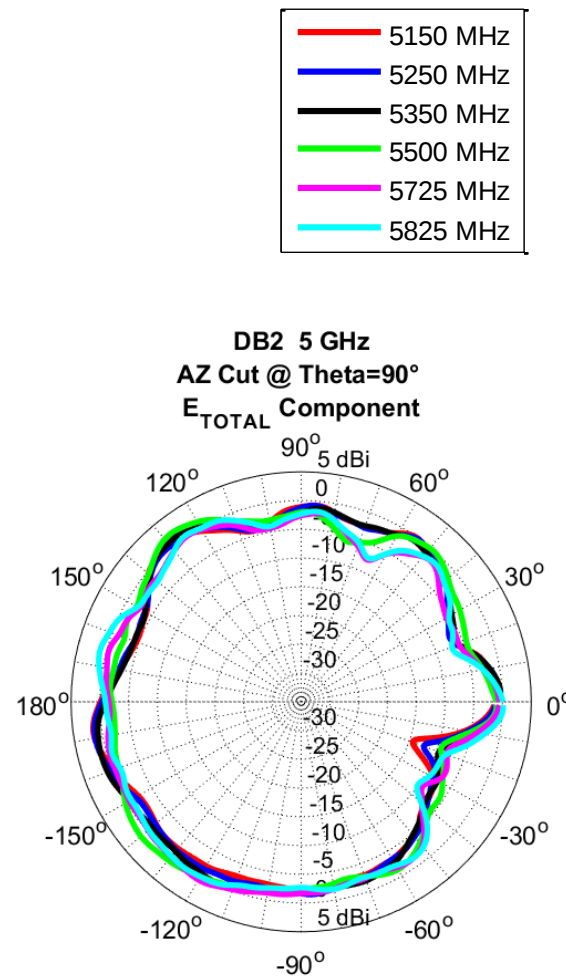
DB 5 GHz Antennas



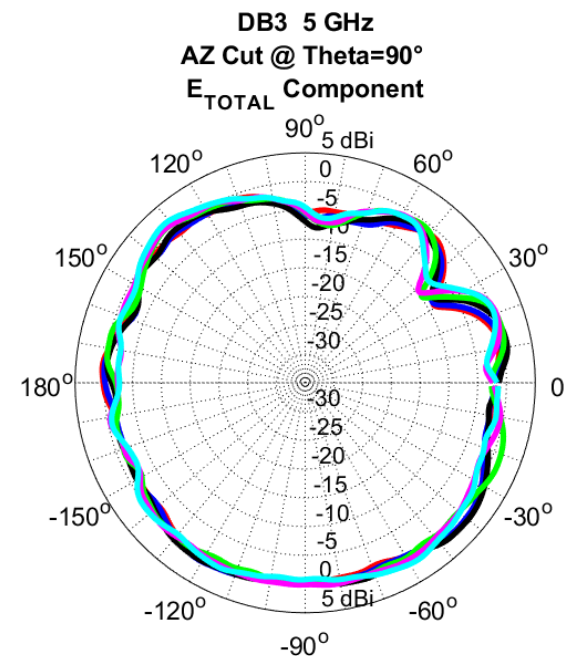
DB0



DB1



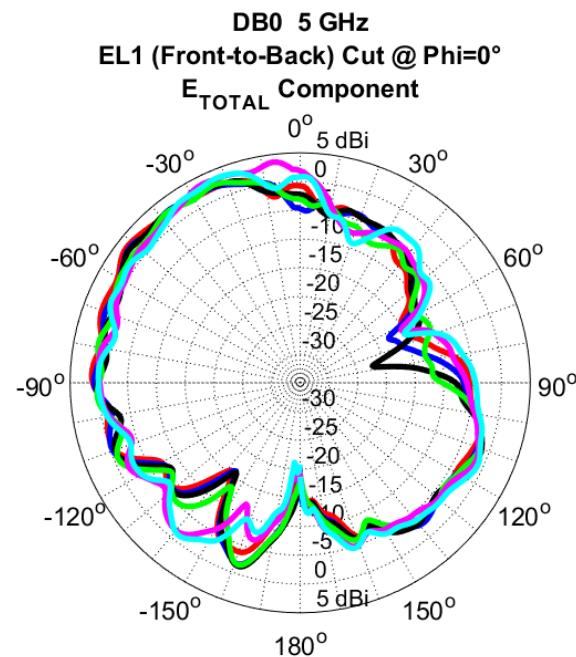
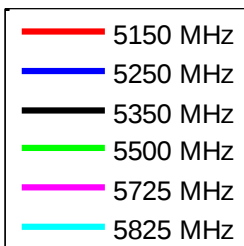
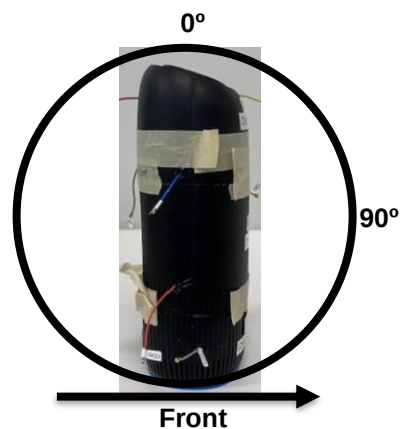
DB2



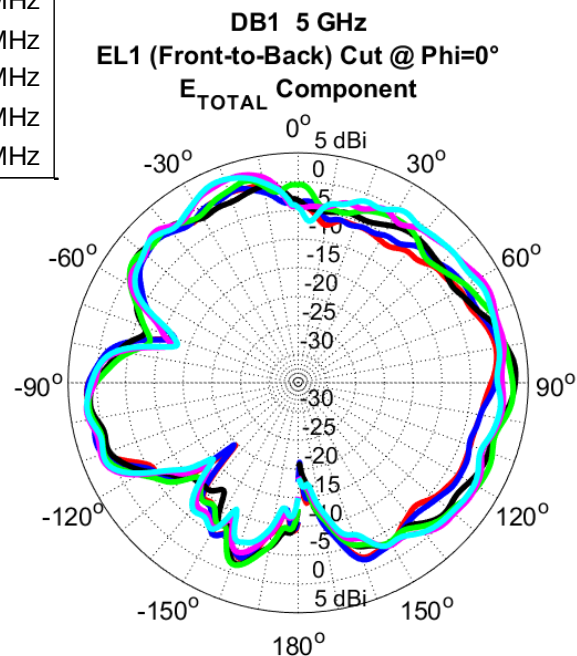
DB3

Elevation (Front to Back) Cut - Power Sum

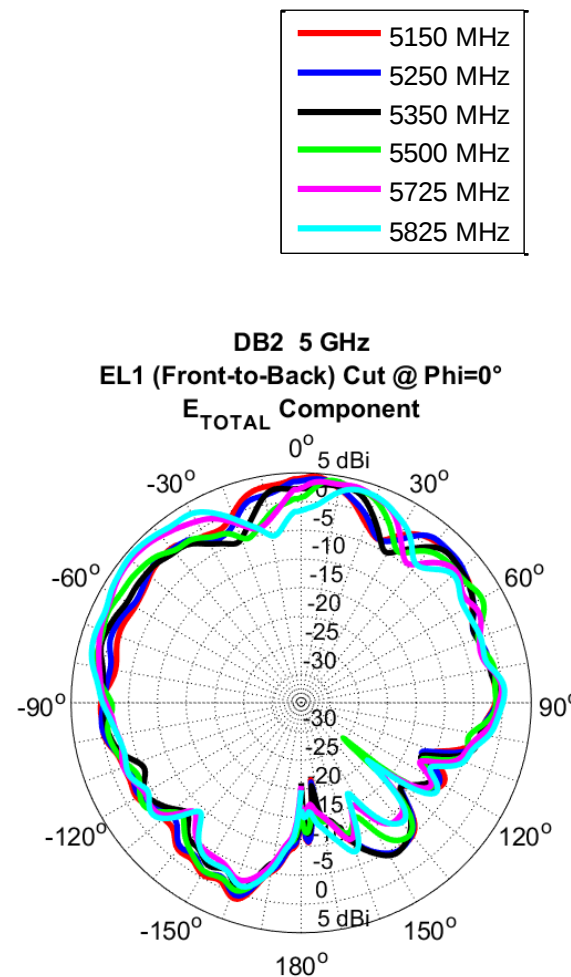
DB 5 GHz Antennas



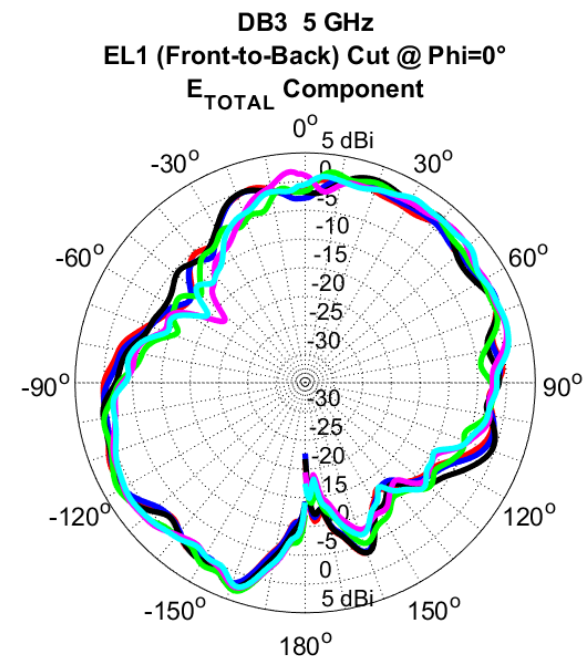
DB0



DB1



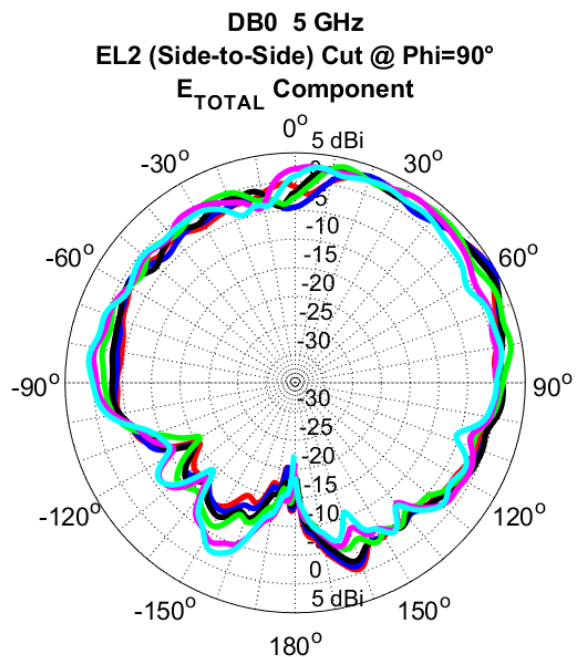
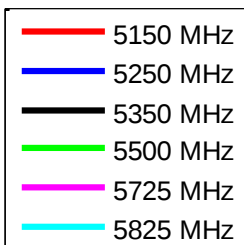
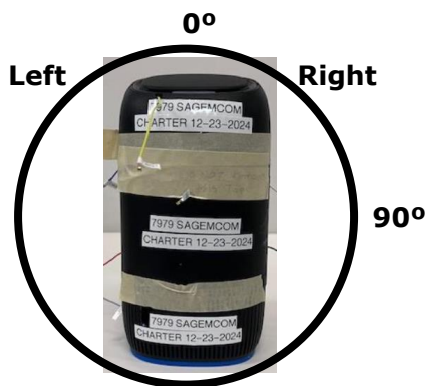
DB2



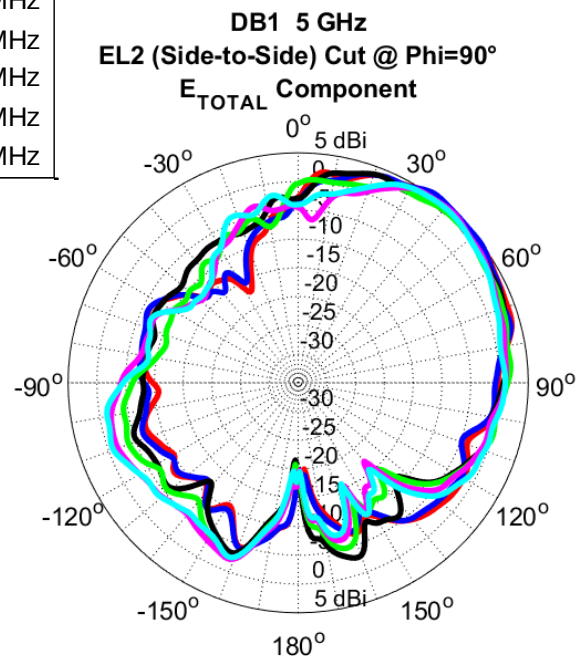
DB3

Elevation (Side to Side) Cut - Power Sum

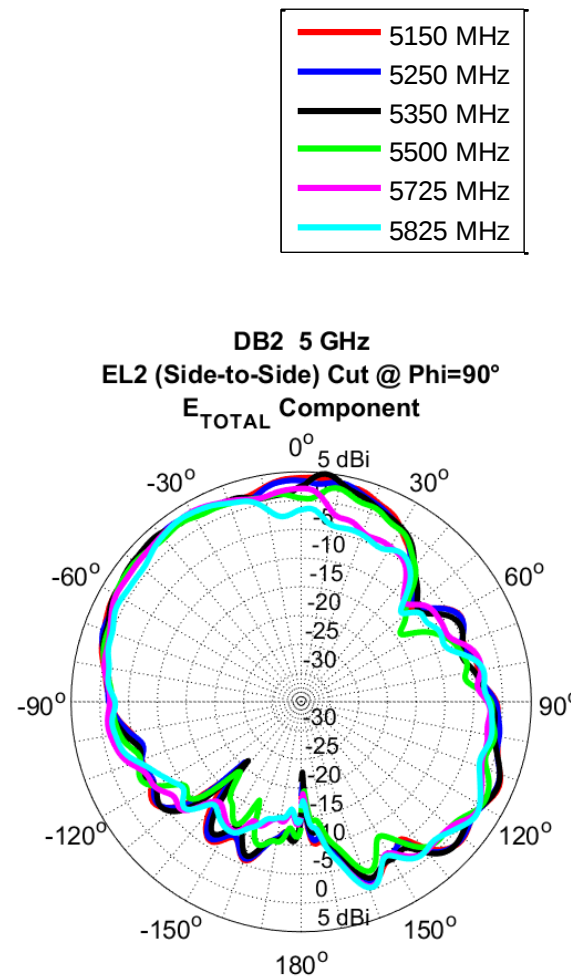
DB 5 GHz Antennas



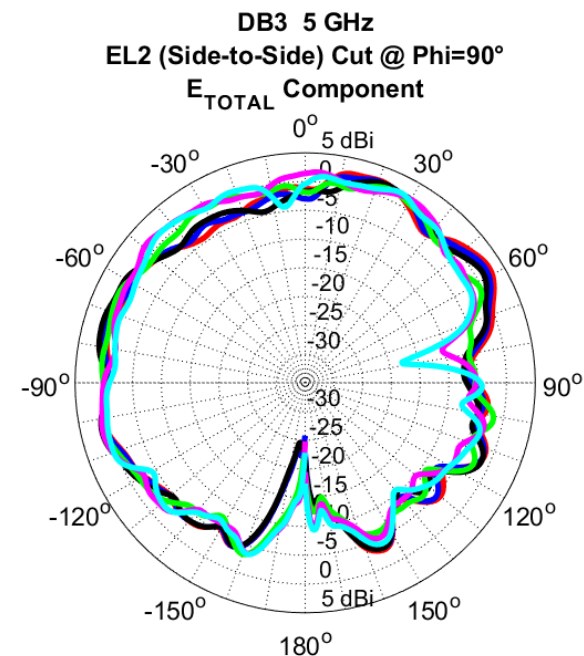
DB0



DB1



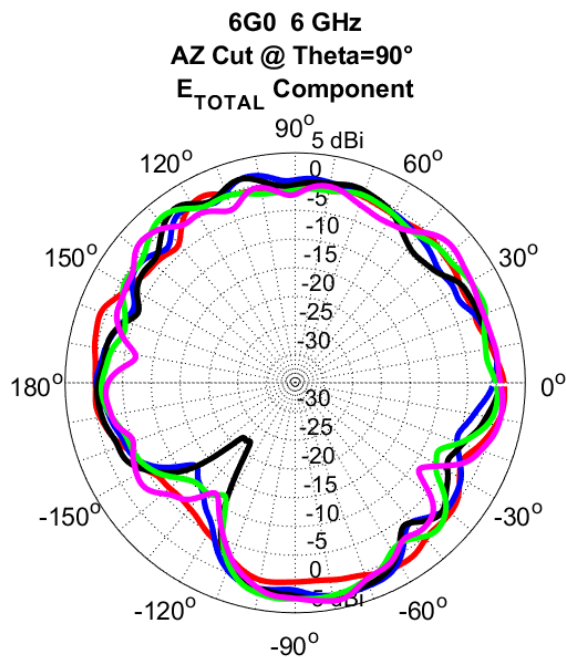
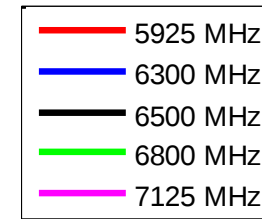
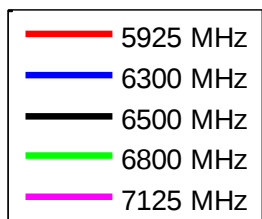
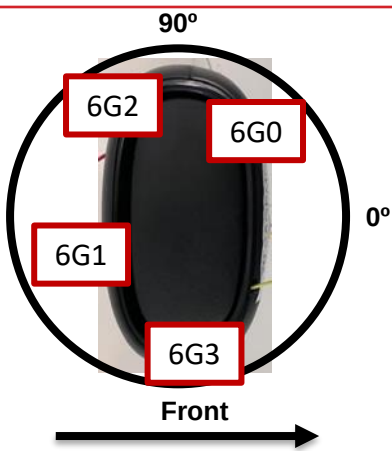
DB2



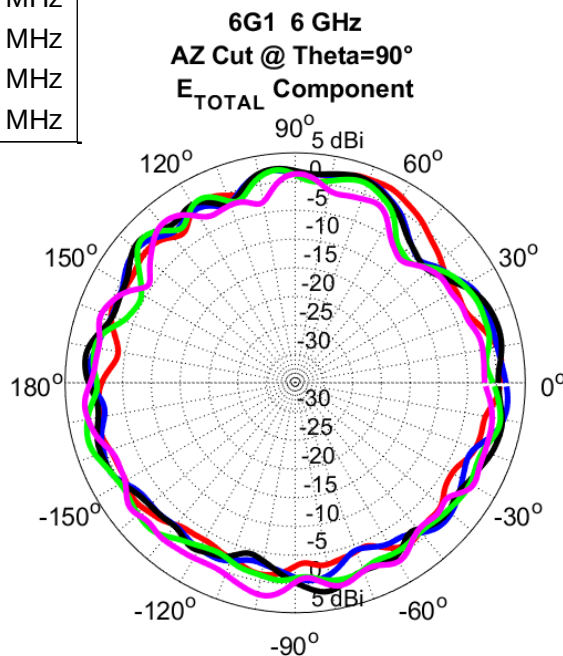
DB3

Azimuth Cut - Power Sum

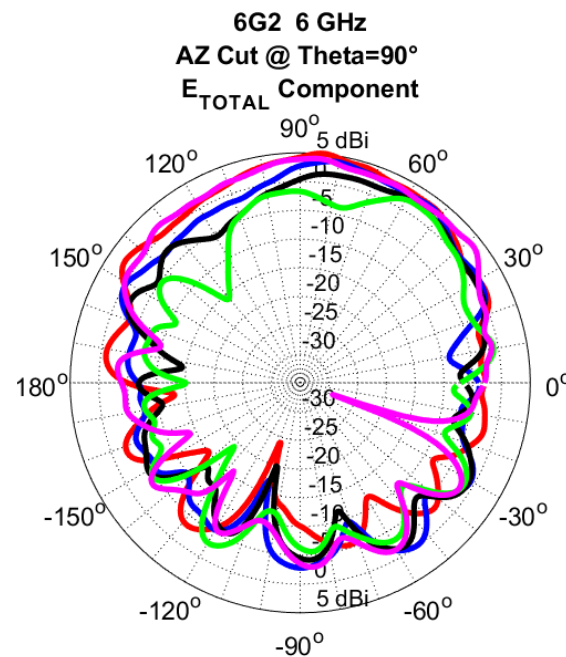
6 GHz Antennas



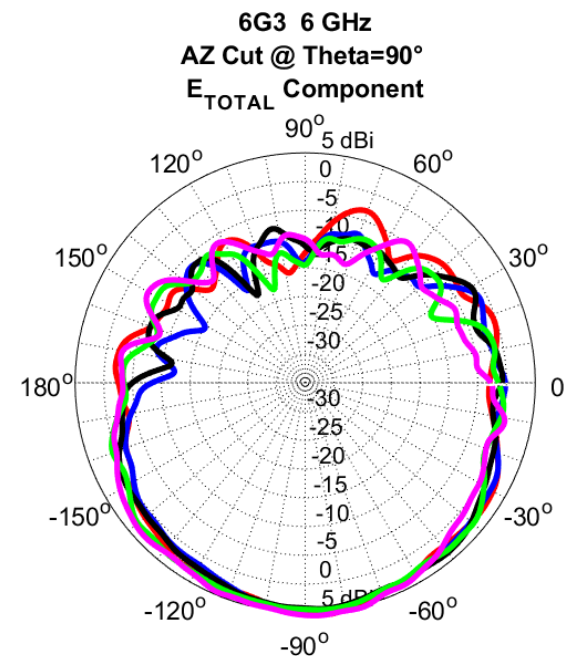
6G0



6G1



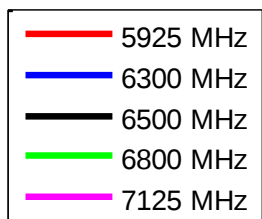
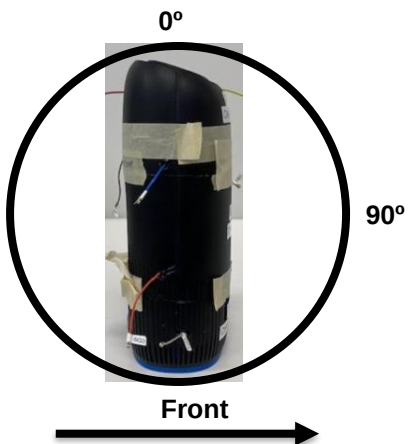
6G2



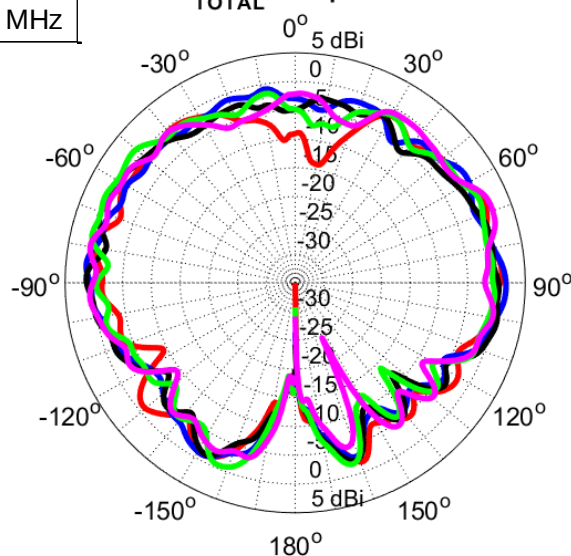
6G3

Elevation (Front to Back) Cut - Power Sum

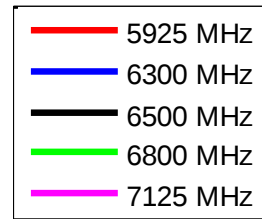
6 GHz Antennas



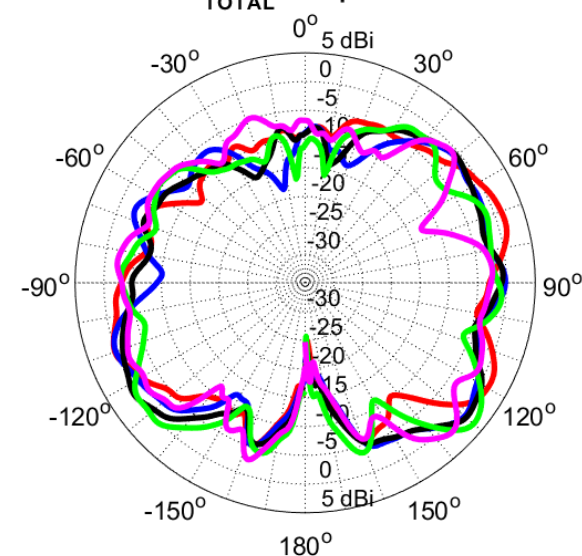
6G1 6 GHz
EL1 (Front-to-Back) Cut @ $\Phi=0^\circ$
 E_{TOTAL} Component



6G1

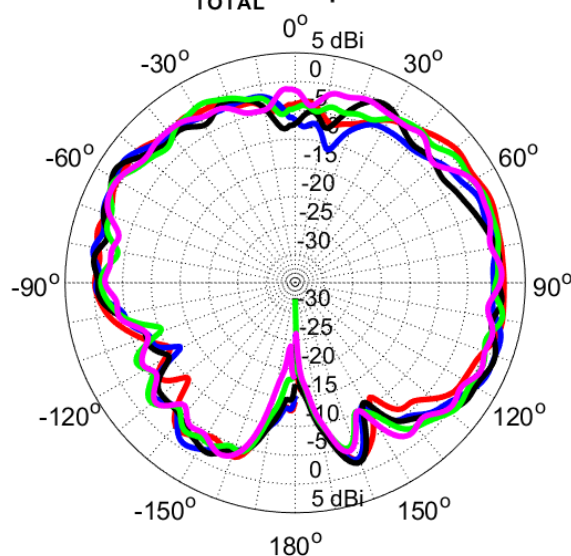


6G3 6 GHz
EL1 (Front-to-Back) Cut @ $\Phi=0^\circ$
 E_{TOTAL} Component



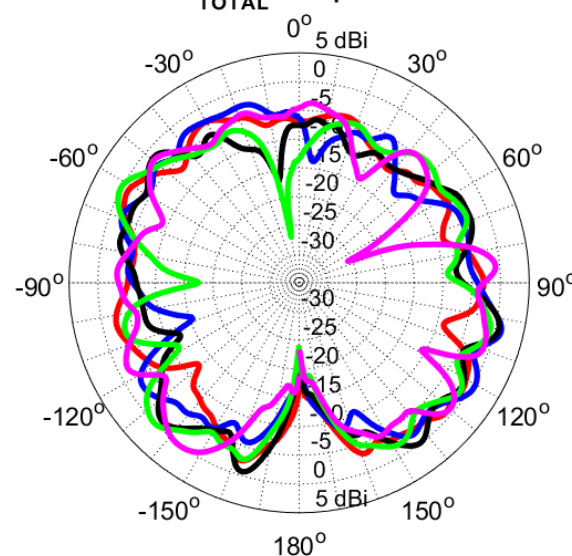
6G3

6G0 6 GHz
EL1 (Front-to-Back) Cut @ $\Phi=0^\circ$
 E_{TOTAL} Component



6G0

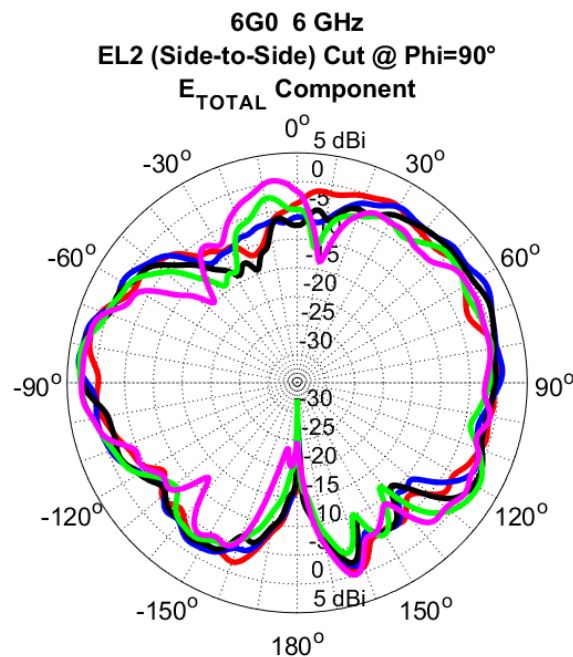
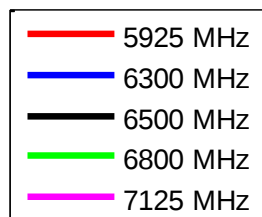
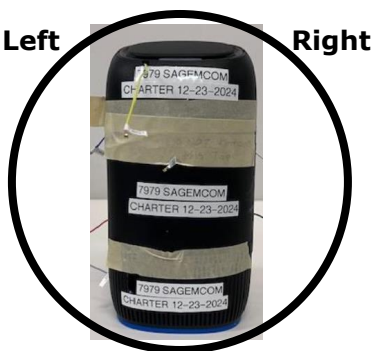
6G2 6 GHz
EL1 (Front-to-Back) Cut @ $\Phi=0^\circ$
 E_{TOTAL} Component



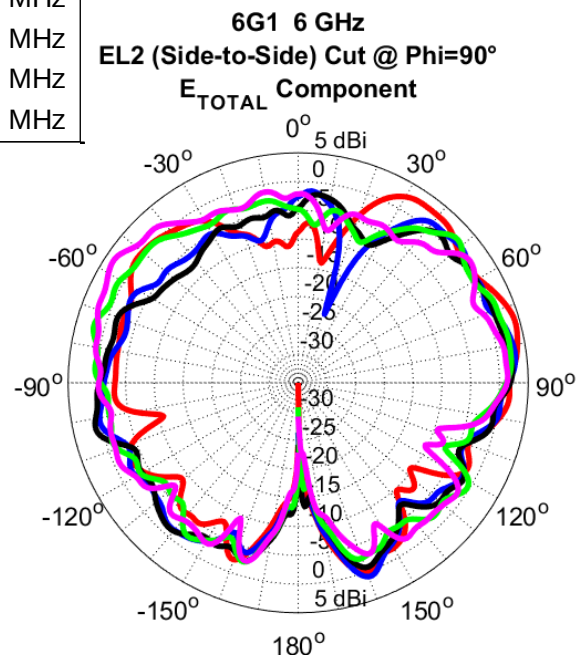
6G2

Elevation (Side to Side) Cut - Power Sum

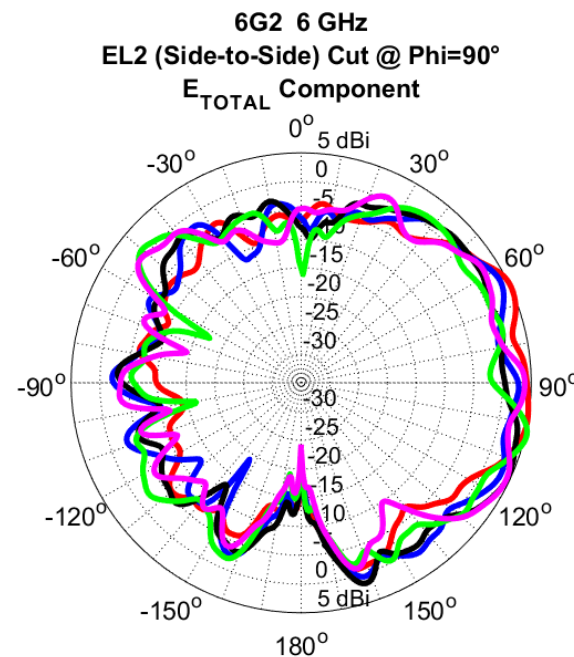
6 GHz Antennas



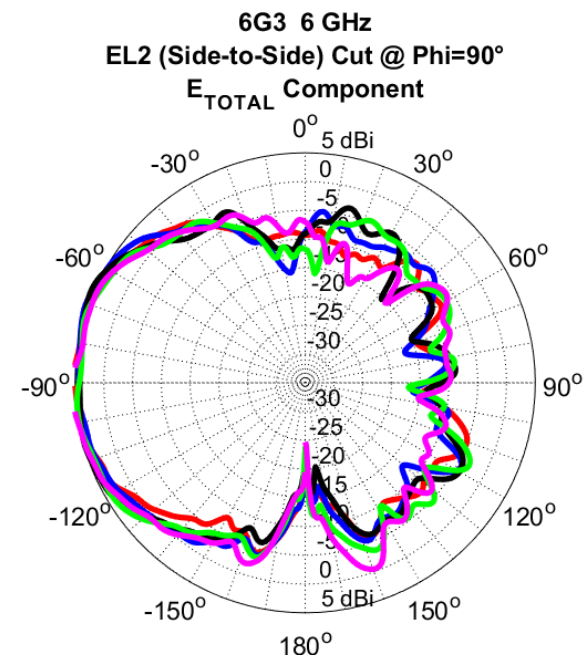
6G0



6G1



6G2



6G3

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