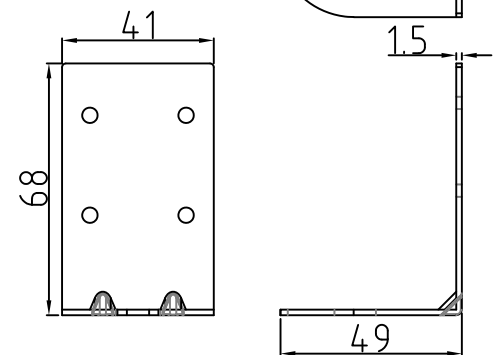


Wall Mounting x4
Screw 4x25L x4

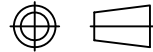


Electrical Properties


Frequency Range	600~7125MHz
Impedance	50 Ω
V.S.W.R.	≤2.5
Radiation	Omni
Gain	9.0dBi
Polarization	Vertical
Mechanical Properties	
Material	PC+ABS
Standard Connector	SMA Male
Waterproof Level	IP68
Operating Temp	-40°~ +85°

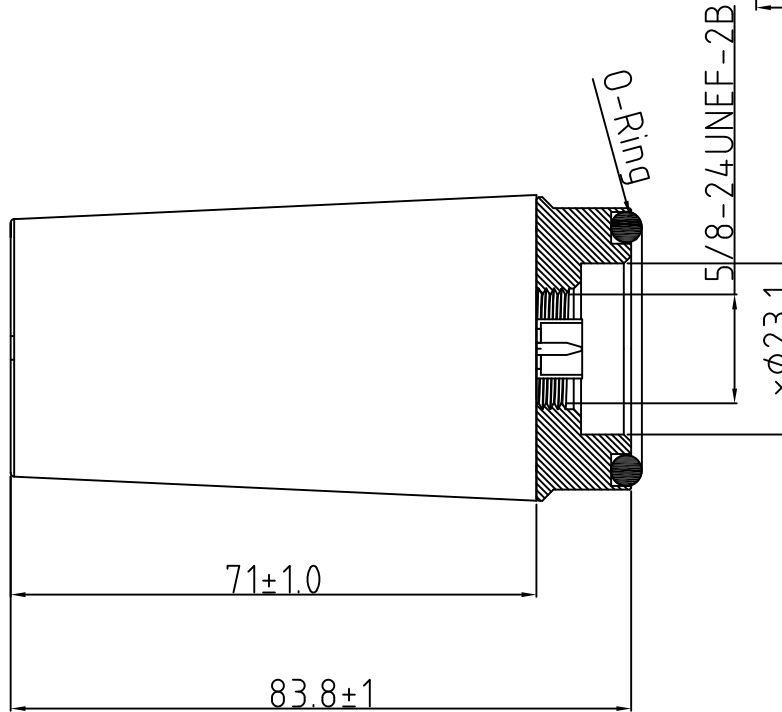
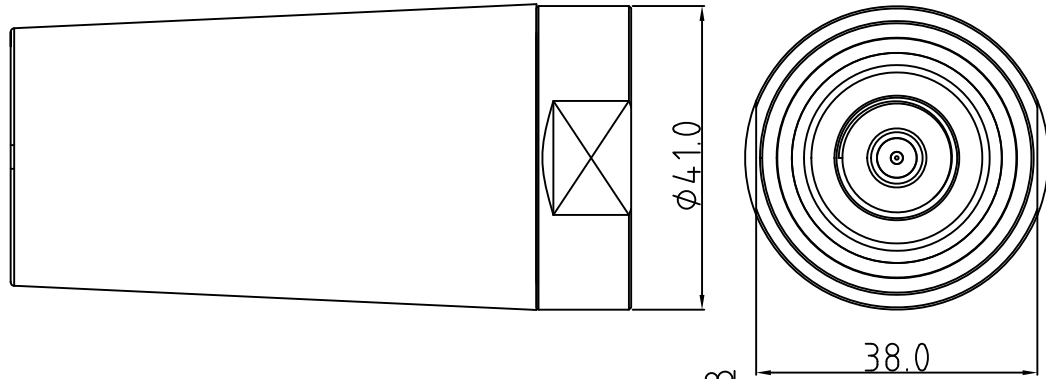
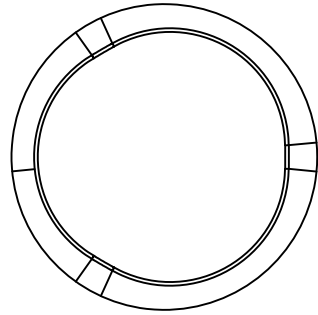
NO	Name	Material	Finish	QTY
1	ANTENNA Cover	PC+ABS	BLACK	1
2	SMA Male	Brass	GOLD	1
3	CFD200 Cable	PE	BLACK	1
4	Antenna		BLACK	1
5	NUT M12*1.0P	BRASS	NI	1
6	Bracket	AL	Black	1
7	Wall Mounting	PA66	White	4
8	Screw	SUS304		4

THIRD ANGLE PROJECTION



Tolerance	
.X	±0.1
.XX	±0.05
.x	±1°

DRAWN BY	HZH	MATERIAL:		PART NO:	D720. C3. 1. 333
CHECKED BY		FINISH:		TITLE:	D720 4G/5G ANTENNA
APPROVED BY	King	UNIT:	mm	 Dongguan RunShun/www.rsantenna.com	
DATE:	20. 6. 19	SCALE:	1/1		

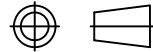


Electrical Properties


Frequency Range	617~7125MHZ
Impedance	50 Ω
V.S.W.R.	≤3.0
Radiation	Omni
Gain	9.0DBi
Polarization	Vertical
Mechanical Properties	
Random	PC+ABS
Standard Connector	NMO Connector
Waterproof Level	IP68
Operating Temp	-40°~ +85°

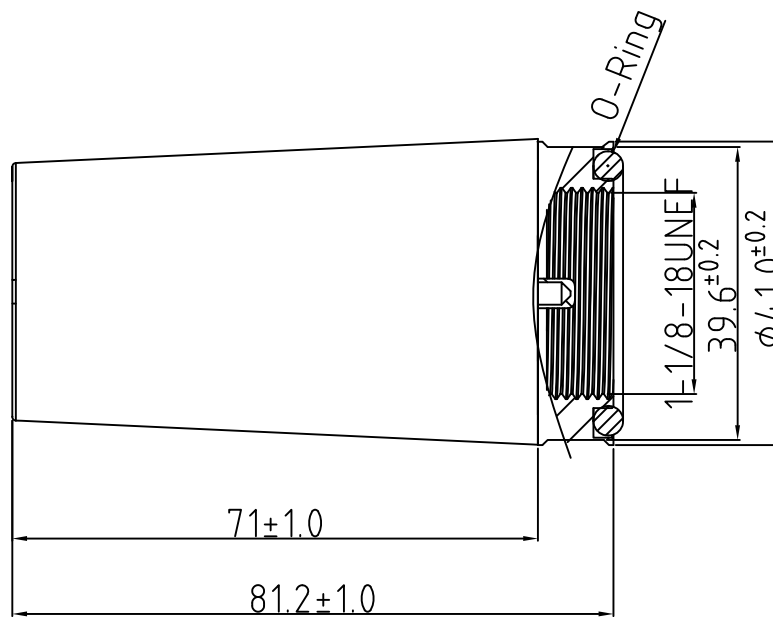
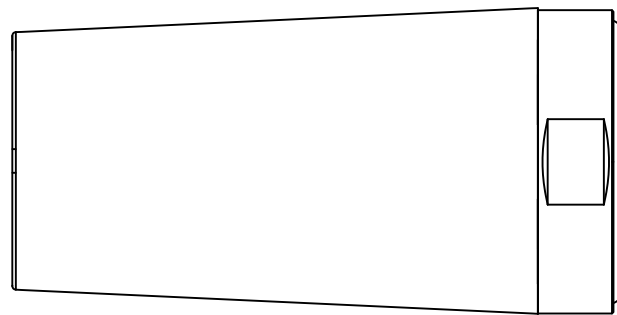
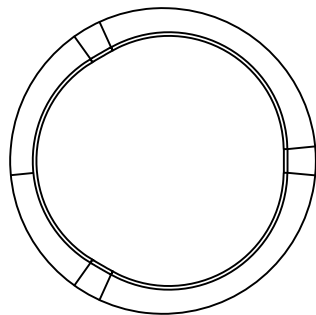
NO	Name	Material	Finish	QTY
1	ANTENNA Cover	PC+ABS	BLACK	1
2	N CONNECTOR	SUS303		1
3	Antenna	FR4	BLACK	1
4	O-RING	NBR	RED	1

THIRD ANGLE PROJECTION



Tolerance
 .X ±0.1
 .XX ±0.05
 .x ±1°

DRAWN BY	HZH	MATERIAL:		PART NO:	D720. C3. 0. 991
CHECKED BY		FINISH:		TITLE:	D720 4G/5G ANTENNA
APPROVED BY	King	UNIT:	mm	 Dongguan RunShun/www.rsantenna.com	
DATE:	20. 6. 19	SCALE:	1/1		

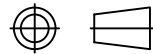


Electrical Properties


Frequency Range	617~7125MHZ
Impedance	50 Ω
V.S.W.R.	≤3.0
Radiation	Omni
Gain	9.0DBi
Polarization	Vertical
Mechanical Properties	
Material	PC+ABS
Standard Connector	NMO Connector
Waterproof Level	IP68
Operating Temp	-40°~ +85°

NO	Name	Material	Finish	QTY
1	ANTENNA Cover	PC+ABS	BLACK	1
2	NMO CONNECTOR	SUS303		1
3	Antenna	FR4	BLACK	1
4	O-RING	NBR	RED	1

THIRD ANGLE PROJECTION



Tolerance
 .X ±0.1
 .XX ±0.05
 .x ±1°

DRAWN BY	HZH	MATERIAL:		PART NO:	D720. C3. 0. 999
CHECKED BY		FINISH:		TITLE:	D720 4G/5G ANTENNA
APPROVED BY	King	UNIT:	mm	 Dongguan RunShun/www.rsantenna.com	
DATE:	20. 6. 19	SCALE:	1/1		

Specification



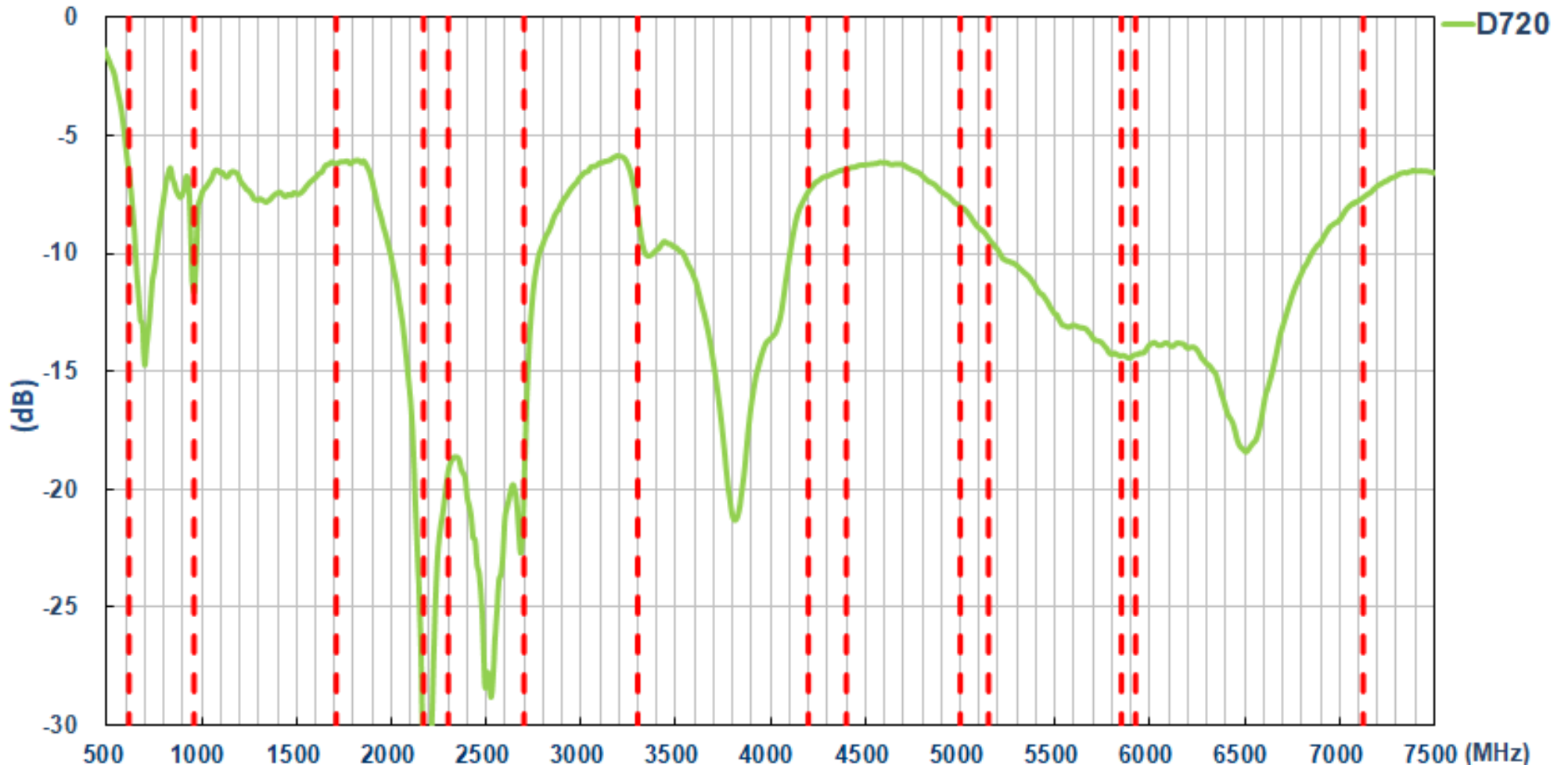
Requirements of Antenna Design

RF Function	Number of ANT	Frequency Band	Remark
5G NR FR1	1	617~960/1710~2690/3300~4200/4400~5000/5150~5850/5925~7125MHz	

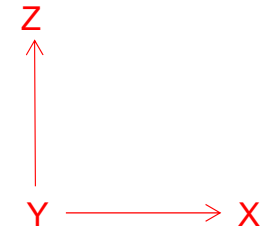
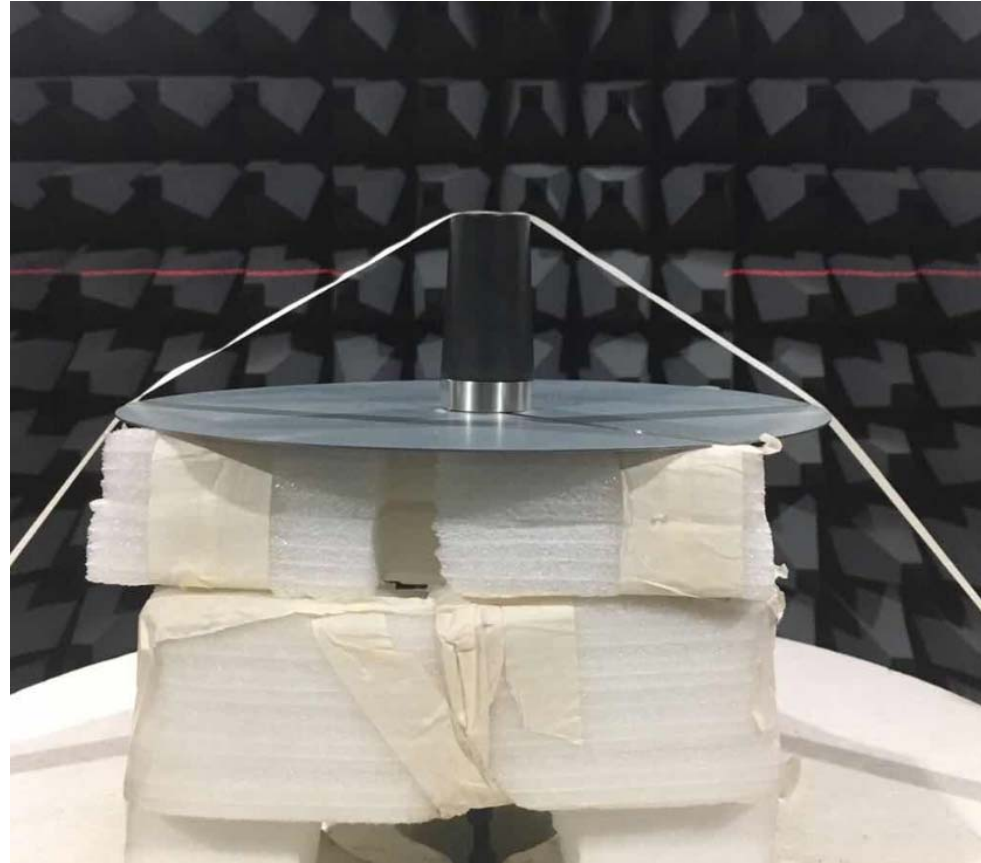
Requirements of Measurement

Test Item	Specification	Remark
Return Loss	$<-5\text{dB}@617\sim 960\text{MHz}$; $<6\text{dB}@1710\sim 7125\text{MHz}$	
Peak gain(without cable loss)	$3\text{dBi}@617\sim 960\text{MHz}$; $4\text{dBi}@1710\sim 2690\text{MHz}$; $8\text{dBi}@3300\sim 4200\text{MHz}$; $9\text{dBi}@4400\sim 5000\text{MHz}$; $8\text{dBi}@5150\sim 5850\text{MHz}$; $9\text{dBi}@5925\sim 7125\text{MHz}$	
Efficiency(without cable loss)	$45\sim 87\%@617\sim 960\text{MHz}$; $64\sim 77\%@1710\sim 2690\text{MHz}$; $60\sim 78\%@3300\sim 4200\text{MHz}$; $60\sim 75\%@4400\sim 5000\text{MHz}$; $60\sim 71\%@5150\sim 5850\text{MHz}$; $70\sim 80\%@5925\sim 7125\text{MHz}$	

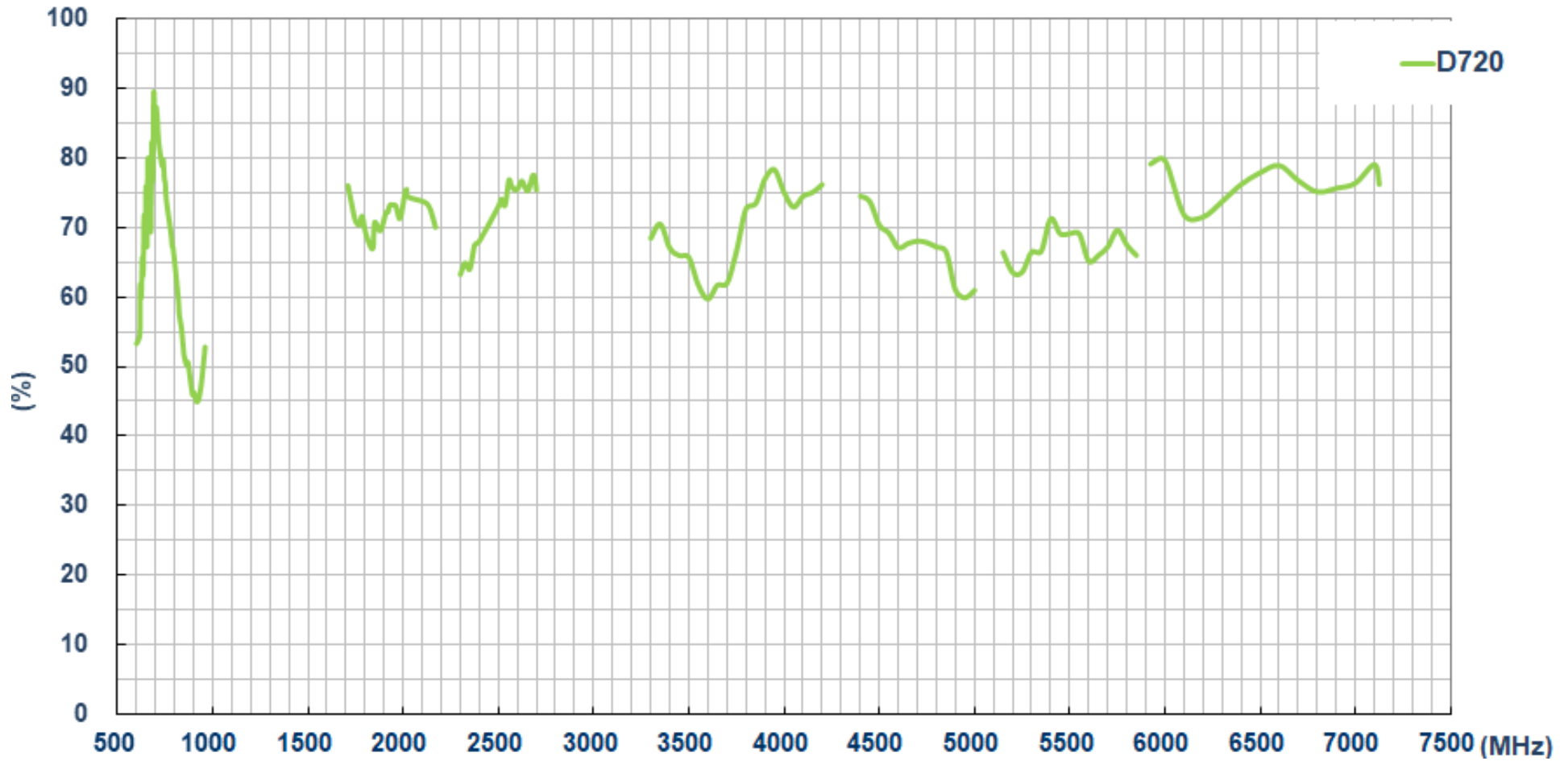
Return Loss



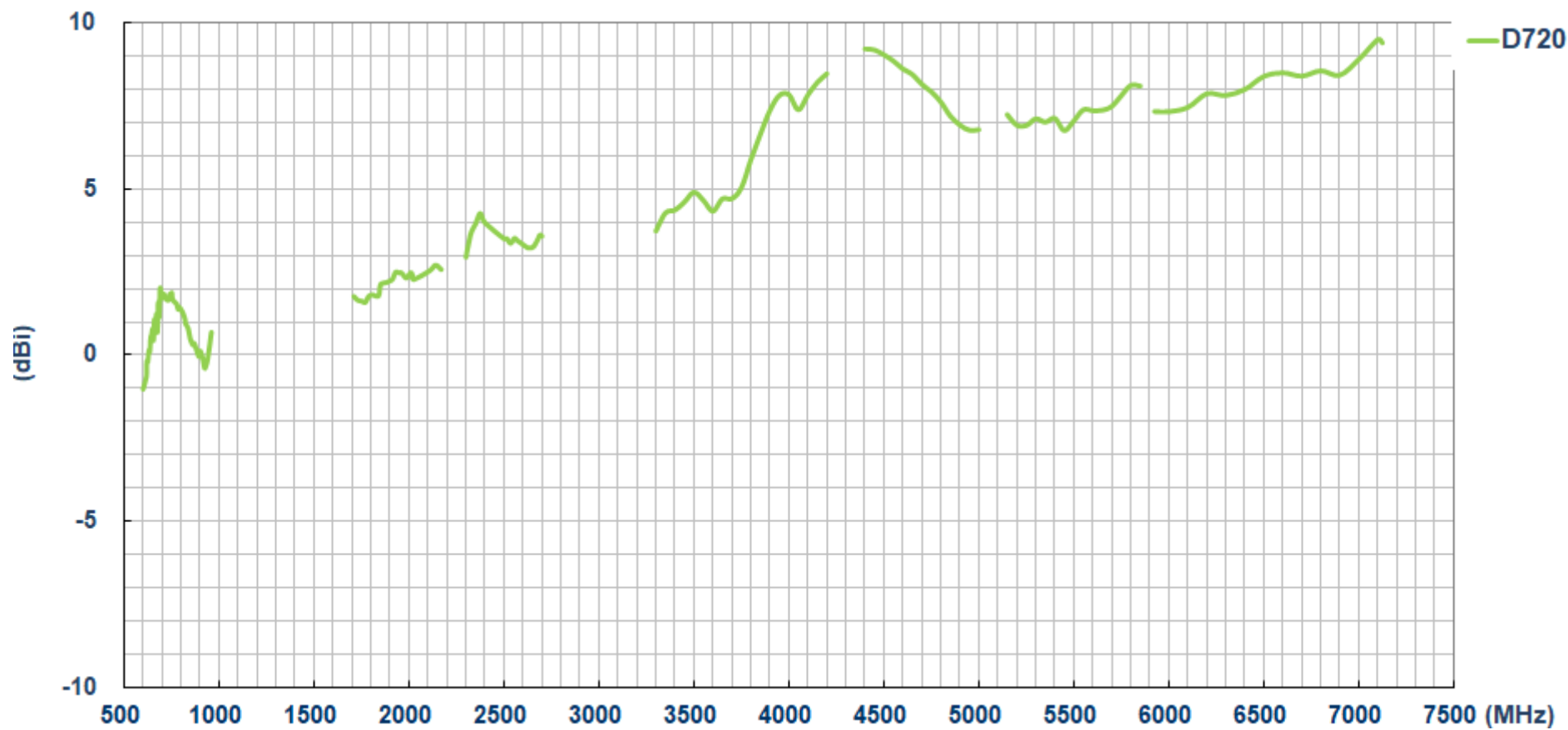
Test Setup



Efficiency



Peak Gain

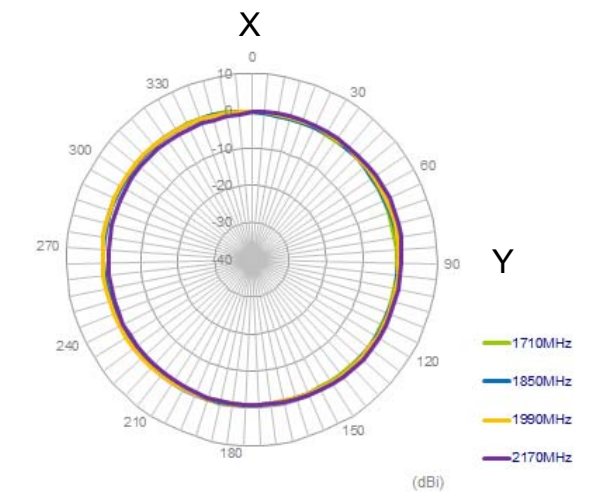
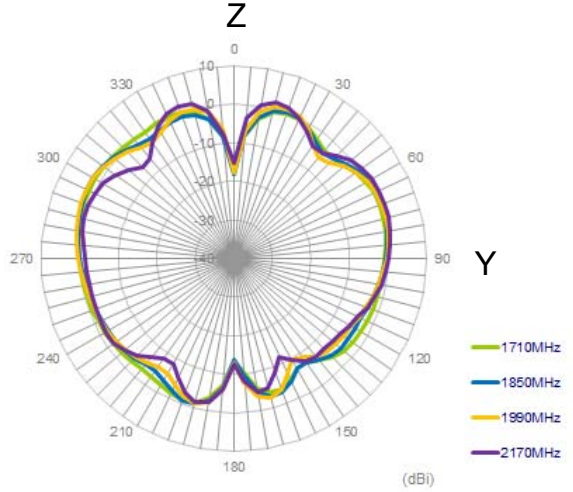
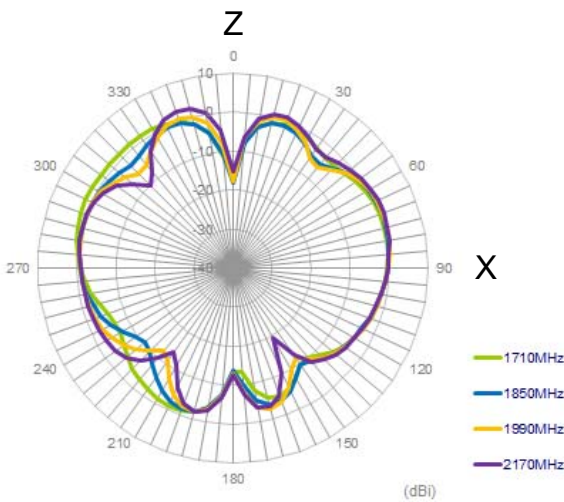
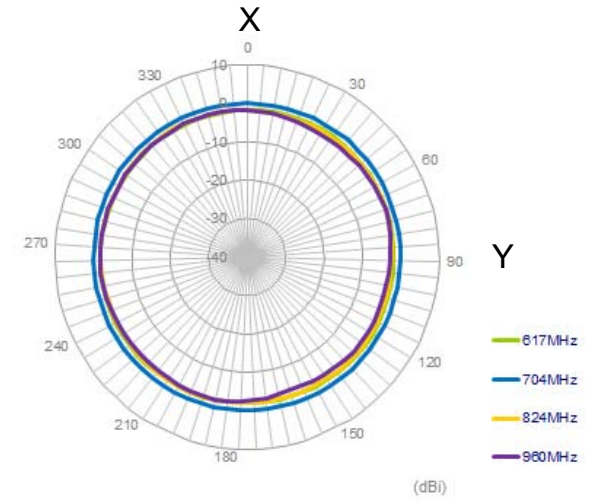
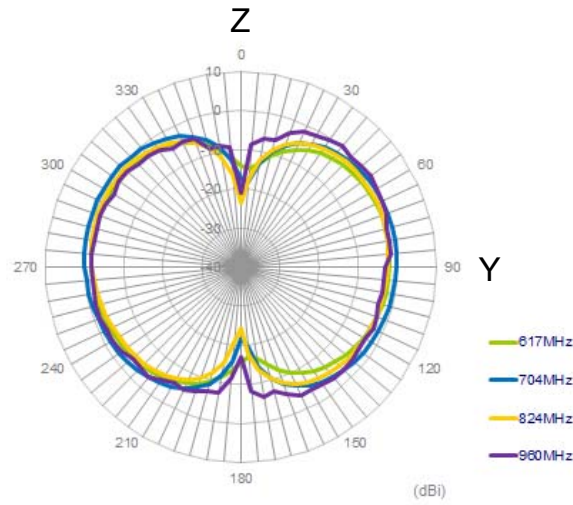
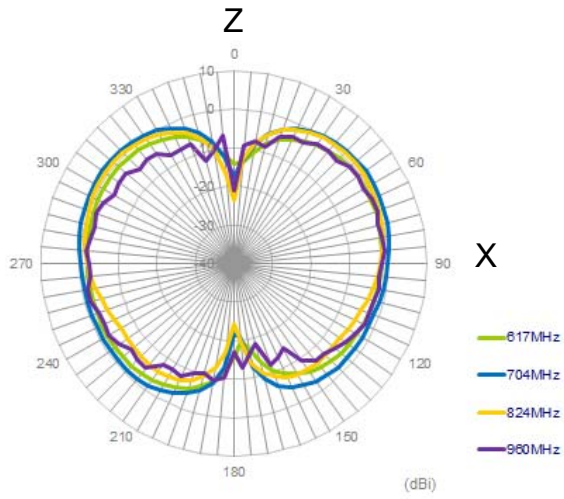


Gain Table

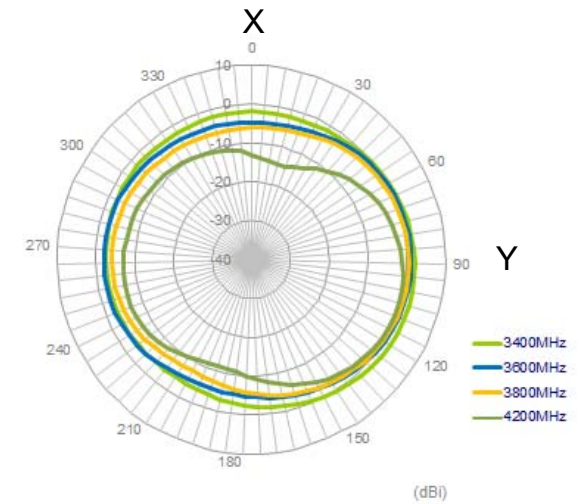
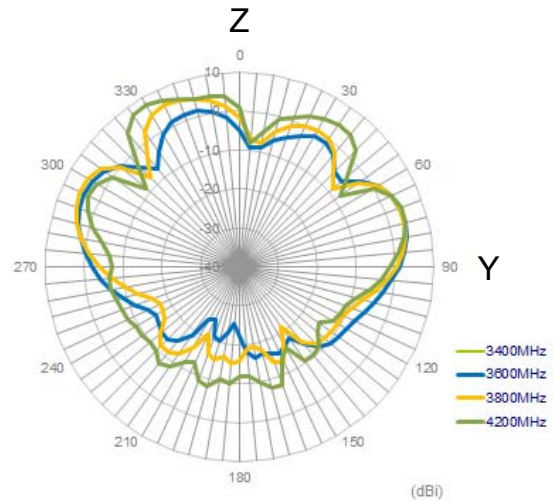
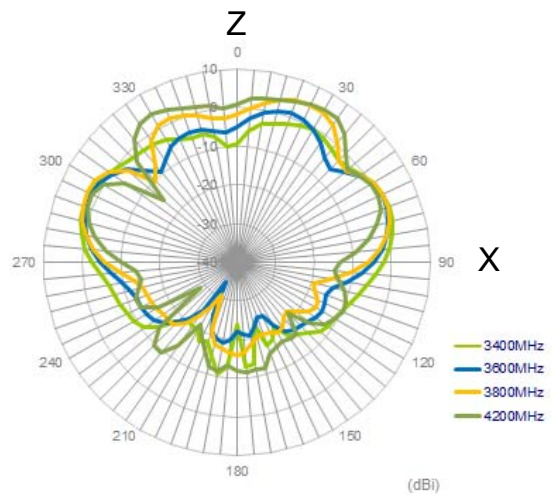
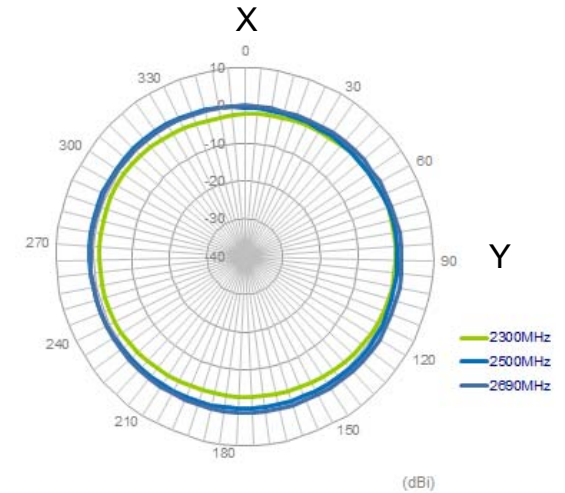
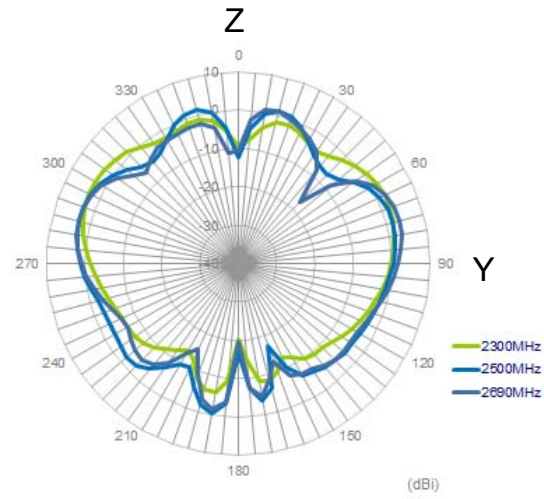
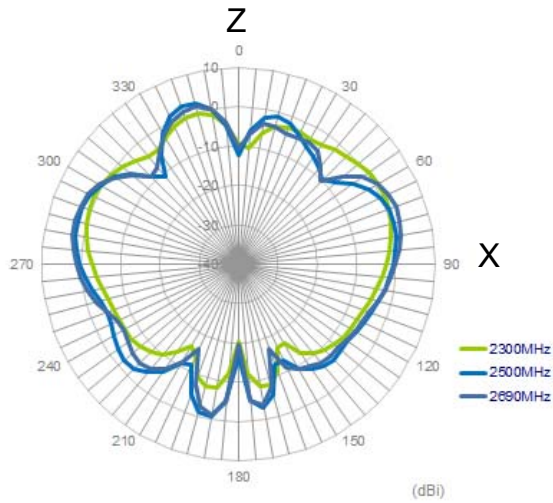


Freq(MHz)	Peak gain(dBi)	Efficiency(%)	Freq(MHz)	Peak gain(dBi)	Efficiency(%)	Freq(MHz)	Peak gain(dBi)	Efficiency(%)	Freq(MHz)	Peak gain(dBi)	Efficiency(%)	Freq(MHz)	Peak gain(dBi)	Efficiency(%)	Freq(MHz)	Peak gain(dBi)	Efficiency(%)	Freq(MHz)	Peak gain(dBi)	Efficiency(%)	Freq(MHz)	Peak gain(dBi)	Efficiency(%)
617	-0.65	55%	734	1.65	79%	1710	76%	1.77	2300	2.95	63%	3300	3.73	68%	4400	6.76	60%	5150	7.23	66%	5925	7.33	79%
620	-0.17	62%	740	1.83	80%	1730	73%	1.65	2325	3.64	65%	3350	4.28	70%	4450	6.78	61%	5200	6.91	64%	6000	7.32	80%
625	-0.20	60%	746	1.72	77%	1750	71%	1.63	2350	3.94	64%	3400	4.36	67%	4500	6.93	65%	5250	6.91	64%	6100	7.45	72%
630	0.14	66%	751	1.88	76%	1770	70%	1.59	2375	4.26	67%	3450	4.60	66%	4550	7.12	66%	5300	7.11	66%	6200	7.86	71%
635	0.09	63%	756	1.66	74%	1785	72%	1.75	2400	3.99	68%	3500	4.90	66%	4600	7.23	66%	5350	7.01	67%	6300	7.81	74%
640	0.53	72%	777	1.54	70%	1805	69%	1.82	2500	3.51	73%	3550	4.65	62%	4650	6.91	64%	5400	7.12	71%	6400	7.99	76%
645	0.61	68%	782	1.42	69%	1840	67%	1.78	2515	3.50	74%	3600	4.33	60%	4700	6.91	64%	5450	6.76	69%	6500	8.38	78%
650	0.79	76%	787	1.37	67%	1850	71%	2.12	2535	3.36	73%	3650	4.70	62%	4750	7.11	66%	5500	7.05	69%	6600	8.49	79%
655	0.44	67%	791	1.44	67%	1880	70%	2.18	2555	3.51	77%	3700	4.71	62%	4800	7.01	67%	5550	7.38	69%	6700	8.39	77%
660	1.08	80%	806	1.31	63%	1910	72%	2.26	2570	3.45	76%	3750	5.04	67%	4850	7.12	71%	5600	7.35	65%	6800	8.55	75%
665	0.66	71%	821	1.07	59%	1920	72%	2.37	2595	3.35	75%	3800	5.88	73%	4900	6.76	69%	5650	7.37	66%	6900	8.42	76%
670	1.24	80%	824	0.94	57%	1930	73%	2.50	2620	3.25	77%	3850	6.64	73%	4950	7.05	69%	5700	7.48	67%	7000	8.89	76%
675	0.69	69%	836	0.83	55%	1950	73%	2.47	2630	3.22	76%	3900	7.36	77%	5000	7.38	69%	5750	7.81	70%	7100	9.49	79%
680	1.59	82%	849	0.48	52%	1960	73%	2.48	2655	3.26	75%	3950	7.81	78%				5800	8.11	67%	7125	9.39	76%
685	1.14	77%	862	0.31	50%	1980	71%	2.33	2680	3.50	77%	4000	7.83	75%				5850	8.09	66%			
690	2.01	89%	869	0.36	51%	1990	72%	2.33	2690	3.62	77%	4050	7.38	73%									
695	1.70	87%	880	0.17	49%	2010	75%	2.48	2700	3.57	75%	4100	7.82	74%									
698	1.80	87%	894	-0.04	46%	2018	75%	2.40				4150	8.20	75%									
700	1.86	87%	900	0.13	46%	2025	74%	2.27				4200	8.46	76%									
702	1.85	87%	915	-0.12	45%	2110	74%	2.54															
704	1.83	87%	925	-0.40	45%	2140	73%	2.71															
710	1.84	85%	940	-0.11	47%	2170	70%	2.57															
716	1.71	82%	960	0.69	53%																		

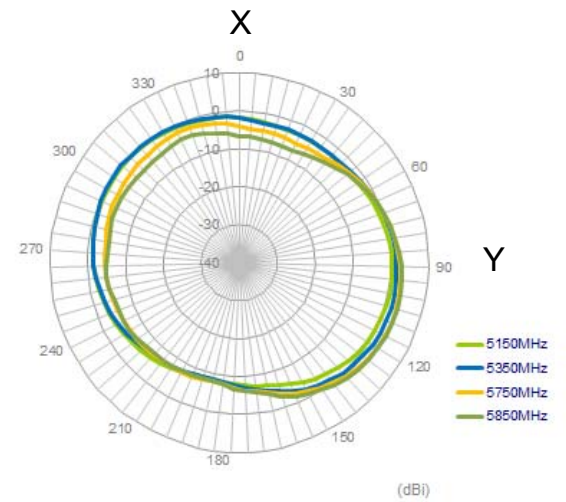
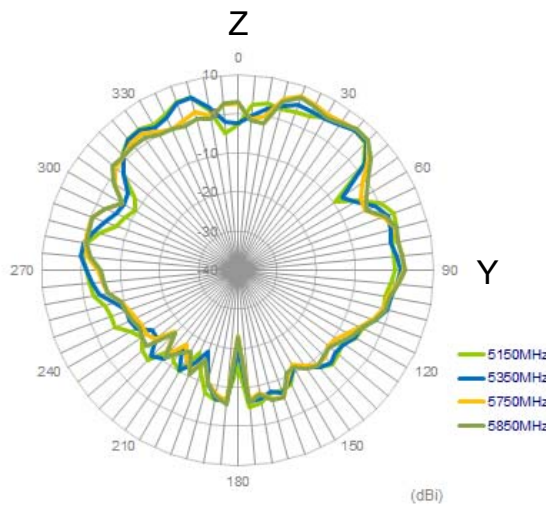
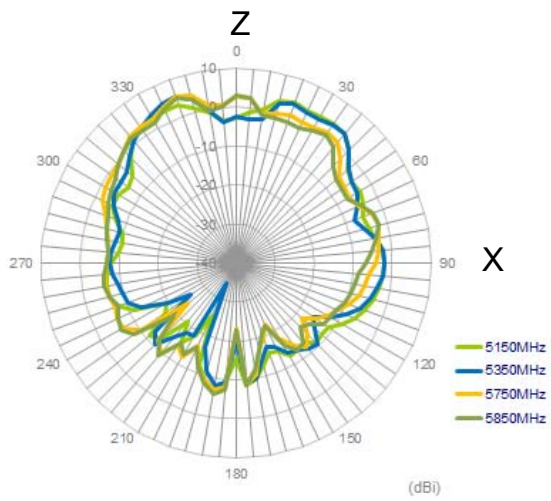
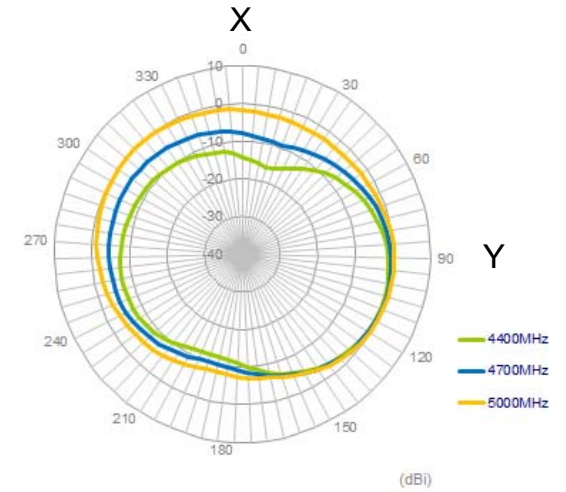
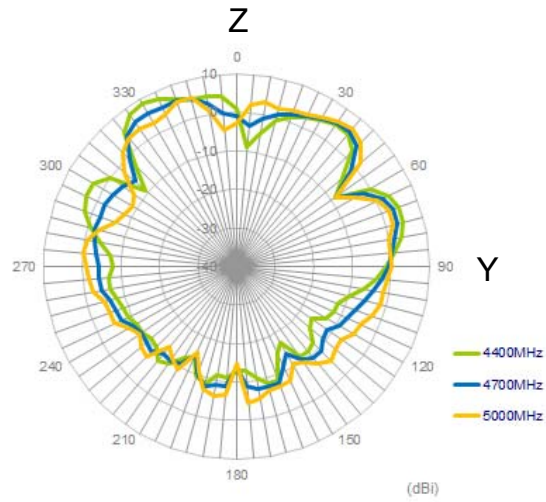
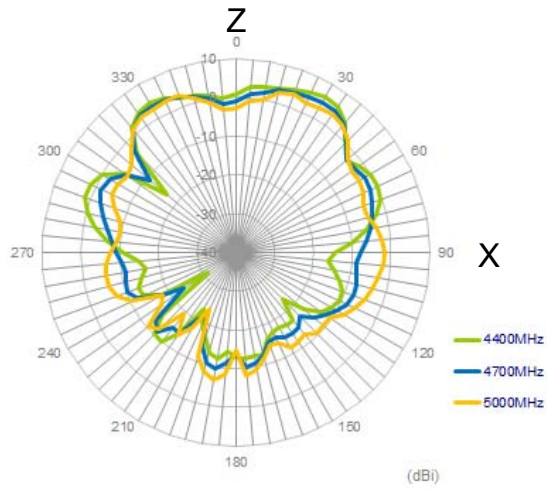
2D Radiation Pattern Results



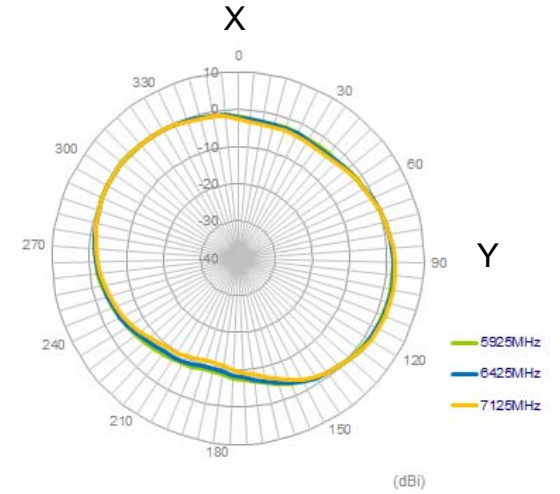
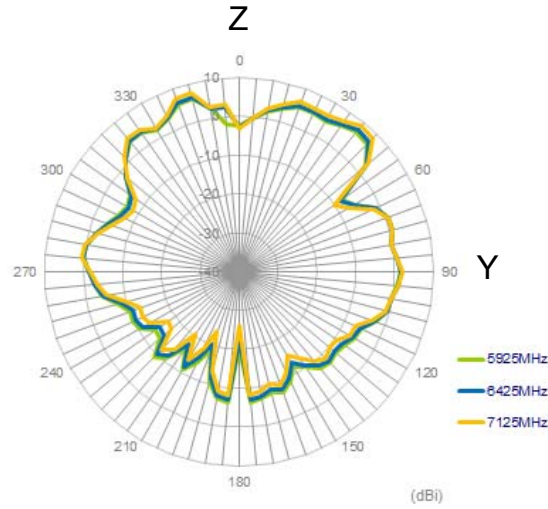
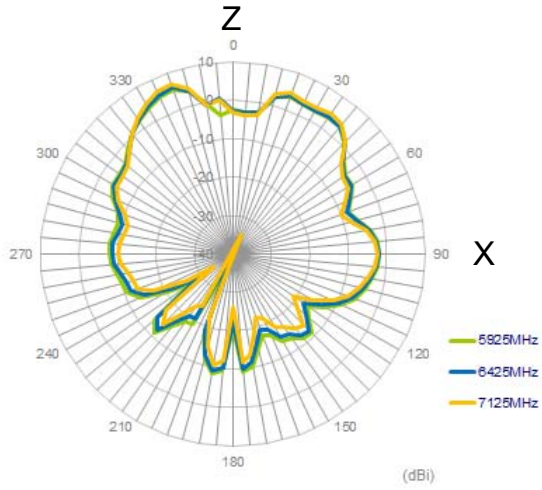
2D Radiation Pattern Results



2D Radiation Pattern Results



2D Radiation Pattern Results



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