



Antenna Gain Measurement Report

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Release Control Record

Issue No.	Description	Date Issued
ORBCKS-WTW-P23040515B	Original release.	2023.9.28

1 EUT Antenna System Description

1.1 Antenna Information

Frequency Range (GHz)	Brand Name	Model Name	Antenna Type	Connector Type	Antenna Position	RF Chain NO.
2.4~2.4835	SPACEX	UTR-232	PIFA	ipex(MHF)	2G1	Ant1
2.4~2.4835			PIFA	ipex(MHF)	2G2	Ant2
2.4~2.4835			PIFA	ipex(MHF)	2G3	Ant3
2.4~2.4835			PIFA	ipex(MHF)	2G4	Ant4
5.15~5.25	SPACEX	UTR-232	PIFA	ipex(MHF)	5L1	Ant1
5.25~5.35			PIFA	ipex(MHF)		
5.15~5.25			PIFA	ipex(MHF)	5L2	Ant2
5.25~5.35			PIFA	ipex(MHF)		
5.15~5.25			PIFA	ipex(MHF)	5L3	Ant3
5.25~5.35			PIFA	ipex(MHF)		
5.15~5.25			PIFA	ipex(MHF)	5L4	Ant4
5.25~5.35			PIFA	ipex(MHF)		
5.47~5.725	SPACEX	UTR-232	PIFA	ipex(MHF)	5H1	Ant1
5.725~5.85			PIFA	ipex(MHF)		
5.47~5.725			PIFA	ipex(MHF)	5H2	Ant2
5.725~5.85			PIFA	ipex(MHF)		
5.47~5.725			PIFA	ipex(MHF)	5H3	Ant3
5.725~5.85			PIFA	ipex(MHF)		
5.47~5.725			PIFA	ipex(MHF)	5H4	Ant4
5.725~5.85			PIFA	ipex(MHF)		

1.2 Antenna Location (Configuration and RF Chains)

Please refer to another document - Test Setup and EUT antenna port photo. (Appendix C.)

2 Antenna Measurement

2.1 Antenna Measurement Chamber

Chamber Type	Chamber Size
Fully Anechoic Chamber	Length: 7.32 m Width: 3.66 m Height: 3.51 m

Type of Equipment	Model Number	Serial Number
ETS Anechoic Chamber (OTA3-HY)	AMS-8500	CT0000411-1132
Multi-Axis Positioning System	ETS 2090-OPTI	00086248

Note: The test was performed in CITA OTA distributed-axes system.

2.2 Reference Standard

ANSI 63.10-2013 clause 13
IEEE std. 149-2021
KDB 662911 D01

2.3 Block diagram of antenna test set-up

In far field chamber, rotation around theta axis corresponds to the elevation angle θ and around the phi axis corresponds to the azimuth angle ϕ . When measuring a 3D radiation pattern, the rotation table rotates around the theta from 0° to 180° and the rotation arm revolves around the phi axis between 0° and 360° . The vertical E field actually corresponds to the horizontal polarization and vice versa..

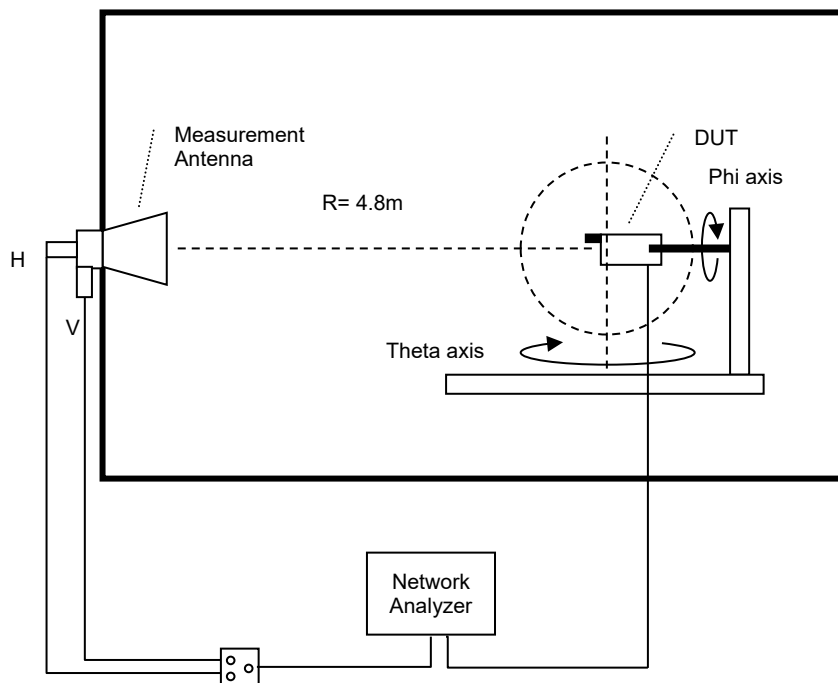


Figure 1. Antenna Pattern Test System.

2.4 Block diagram of calibration

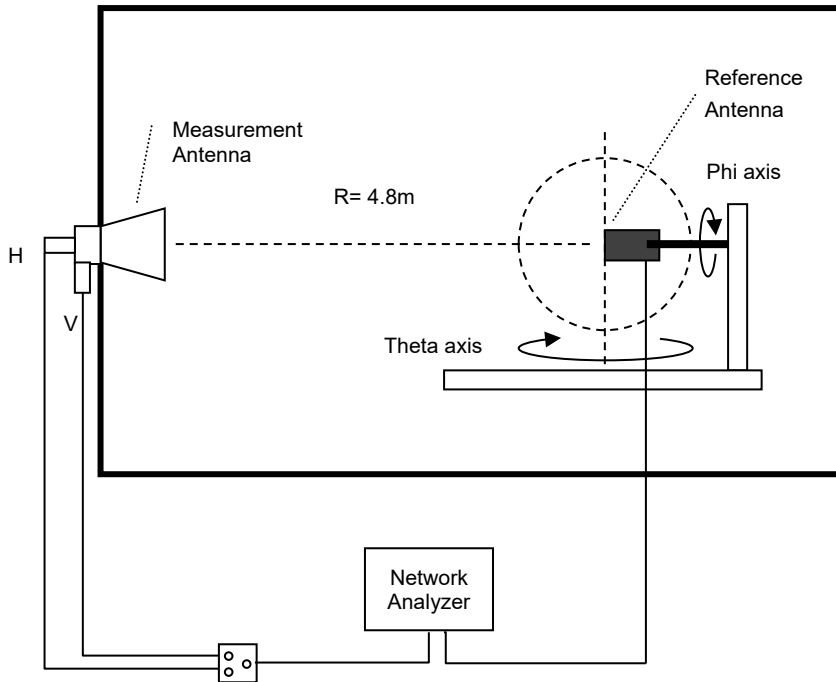
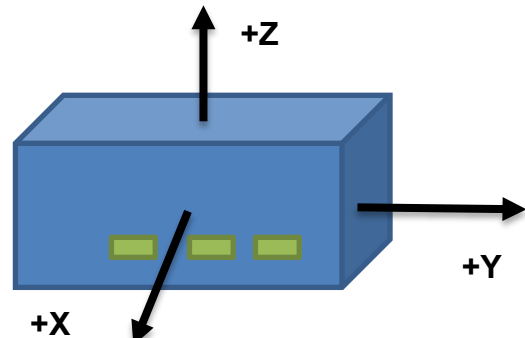


Figure 2. Calibration configuration.

2.5 Measurement Setup

Chamber Placement
To minimize the physical volume occupied by the EUT during testing, the center of rotation shall be the three-dimensional geometric center of the EUT and not the antenna
Positioning an Integrated Device Relative to the Chamber Coordinate System
The reference plane for the EUT is defined as the plane on which the base of the EUT sits. This plane will be normal to the phi axis of the chamber.
Before placing the EUT in the chamber, place the integrated device on a level surface and measure the height, width and depth (H, W, D) of the device to determine the center of each (mark with tape if need).
The center of the height, width and depth of the device shall be located at the origin of the chamber coordinate system.


2.6 EUT Operation mode

Band	Modulation Mode	CDD mode	Beamforming mode
2.4GHz	802.11b	Nss1	Not Support
	802.11g	Nss1	Not Support
	802.11n(HT20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11n(HT40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11n(VHT20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11n(VHT40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
5GHz	802.11a	Nss1	Not Support
	802.11n(HT20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11n(HT40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ac(VHT20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ac(VHT40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ac(VHT80)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ac(VHT160)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE80)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
802.11ax(HE160)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4	

Note: The Nss 1 mode for both 2.4GHz, 5GHz bands for final testing.

Band	Modulation Mode	Ant1	Ant2	Ant3	Ant4
2.4GHz	802.11b	TX/RX	TX/RX	TX/RX	TX/RX
	802.11g	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(HT20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(HT40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(VHT20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(VHT40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE40)	TX/RX	TX/RX	TX/RX	TX/RX
5GHz	802.11a	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(HT20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(HT40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT80)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT160)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE80)	TX/RX	TX/RX	TX/RX	TX/RX
802.11ax(HE160)	TX/RX	TX/RX	TX/RX	TX/RX	

2.7 Test Setup Diagram for EUT

Please refer to another document - Test Setup and EUT antenna port photo. (Appendix C.)



2.8 Test Instruments

TYPE OF EQUIPMENT	MODEL NUMBER	SERIAL NUMBER	DATE OF CALIBRATION	DUE DATE OF CALIBRATION	CALIBRATION CYCLE
(OTA3-HY) ETS Anechoic Chamber	AMS-8500	CT0000411-1132	N/A	N/A	N/A
Multi-Axis Positioning System	ETS 2090-OPTI	00086248	N/A	N/A	N/A
Horn Antenna	ETS 3164-08	00157567	N/A	N/A	N/A
Switch Control	Agilent 3499A	MY42005285	N/A	N/A	N/A
Network Analyzer	E5071C	MY46104190	2023/5/29	2024/5/28	12 months
Test Software	ETS-Lindgren EMQuest V1.14 build 31654	1281	N/A	N/A	N/A

Note 1: The test was performed in CITA OTA distributed-axes system.

Note 2: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2.9 Test Procedure

1. The Antenna Gain Test is performed according to The ANSI/IEEE Std 149 12.3.1 Antenna Gain (Small size (< 42cm) Linear Polarization Antennas), using a two-axis support device and one fixed measurement antenna. The EUT is positioned along the required MAPS centerline fixture holder. The EUT is then stepped between 0 and 180 degrees along the theta axis in 15-degree increments. At each theta position, the phi axis is stepped from 0-360 degrees in 15-degree increments. Data is recorded using the Network analyzer for both theta and phi polarizations at each position. Depending on the protocol, an appropriate filter is used in the EMQuest software to process the data. Upon completion of the test, test results (angular dependent EIRP) is calculated at each measurement point and the required value is automatically calculated. This test procedure is repeated for frequency and configuration as required.
2. Repeat step 1 and measures all of antenna gain for each Phi and Theta polarization for all antenna angles.
3. Considering each combination of phi and theta for all angles of each antenna, Directional Gain are calculated according to the FCC KDB662911 D01 d) (i) or e) (ii) formula.
4. Investigate composite antenna gain at all angles by program and determine maximum gain and Phi/Theta position (Direction gain is calculated for each angle then maximum gain is selected.).

2.10 Summary Test Result

Tested By	Leo Chen
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Individual Antenna Maximum Peak Gain:

Frequency Band (GHz)	2.4	2.45	2.5	5.15	5.25	5.35	5.5	5.65	5.85
Ant. 1 (dBi)	4.49	2.94	3.68	4.35	3.7	3.23	5.14	4.84	5.65
Polarization	Theta	Theta	Theta	Theta	Theta	Theta	Phi	Phi	Phi
Axis: Theta(°)	45	45	60	150	150	150	75	90	90
Axis: Phi(°)	90	90	150	30	30	15	105	105	105
Ant. 2 (dBi)	3.6	4.54	4.89	3.27	3.09	1.16	4.18	4.87	4.26
Polarization	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta
Axis: Theta(°)	75	75	75	105	105	75	60	60	60
Axis: Phi(°)	90	90	90	195	195	180	285	285	285
Ant. 3 (dBi)	2.14	2.63	2.05	3.35	4.22	3.87	5.46	4.96	5.48
Polarization	Phi	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta
Axis: Theta(°)	90	60	45	105	75	75	60	60	60
Axis: Phi(°)	30	240	240	165	165	165	90	75	75
Ant. 4 (dBi)	3.01	4.88	3.74	2.82	2.56	2.28	4.67	4.76	4.33
Polarization	Theta	Theta	Theta	Theta	Theta	Theta	Phi	Phi	Phi
Axis: Theta(°)	75	75	75	105	105	45	90	90	90
Axis: Phi(°)	270	270	285	105	90	90	255	255	255

Maximum Directional Gain (Maximum Direction Angle and Value):

Frequency Band (GHz)	2.4	2.45	2.5	5.15	5.25	5.35	5.5	5.65	5.85
Ant. 1 (dBi)	1.42	1.82	3.25	1.25	0.31	-1.3	-0.98	-5.82	2.42
Ant. 2 (dBi)	3.6	4.54	4.89	-1.64	2.12	1.16	2.45	4.87	1.24
Ant. 3 (dBi)	-4.61	-7.95	-8	3.35	4.14	3.54	0.85	2.51	2.01
Ant. 4 (dBi)	-4.4	-3.01	-0.36	0.61	-5.07	-4.88	-0.54	-4.52	-1.39
Polarization	Theta	Theta	Theta	Theta	Theta	Theta	Phi	Theta	Theta
Axis: Theta(°)	75	75	75	105	75	75	0	60	0
Axis: Phi(°)	90	90	90	165	180	180	180	285	285
DG (dBi) [1SS]	5.76	6.08	7.17	7.09	7.01	6.19	6.57	6.43	7.21

Note:

- ◆ The individual antenna gain and directional gain are by measurement as indicated in above table. For devices transmitter supports MIMO and use same antenna at multiple antenna ports. The direction gain values are follow FCC KDB 662911 D01 into calculation.
- ◆ The applicable limit is subjected to FCC Part 15 regulation and devices transmitter design/specification (i.e., SISO or MIMO etc.). Detail of conformity limit to be described in EUT FCC test reports.

Appendix A – Detail Test Data Information

A.1 Radiated Directional Gain

Ant.	No.1																								
Freq. (MHz)	2400																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	-21.23	-11.03	-5.66	-2.53	-0.50	0.66	0.90	0.53	-0.39	-2.29	-6.02	-13.27	-25.83	-11.04	-5.43	-2.28	-0.43	0.65	0.92	0.47	-0.35	-2.09	-5.70
θ (15°)	-6.54	-3.83	-1.66	0.10	1.46	2.21	2.47	2.21	1.34	-0.15	-2.19	-4.89	-8.01	-9.87	-8.22	-5.58	-3.72	-2.45	-2.12	-2.70	-4.05	-6.48	-10.03	-10.24	-6.54
θ (30°)	-1.22	0.04	1.37	2.14	2.63	3.24	3.74	3.62	3.28	2.82	1.86	0.29	-1.69	-2.46	-2.76	-3.54	-3.95	-3.97	-4.17	-3.98	-3.69	-3.58	-3.13	-2.41	-1.22
θ (45°)	1.53	2.96	2.84	2.68	3.59	4.37	[4.49]	4.17	3.64	3.26	3.08	2.27	1.31	1.63	-0.24	-5.93	-13.43	-15.28	-14.44	-13.22	-10.43	-4.16	0.66	1.79	1.53
θ (60°)	2.44	3.34	2.72	2.25	3.13	3.35	3.36	3.59	3.65	2.98	2.76	3.06	2.20	2.44	-0.86	-6.00	-7.05	-14.60	-18.12	-20.26	-12.04	-6.86	-2.14	2.57	2.44
θ (75°)	1.87	2.10	0.37	0.21	0.96	1.14	1.42	1.10	0.69	0.65	0.92	1.25	0.80	-0.16	-4.08	-4.85	-12.53	-11.63	-6.91	-9.81	-8.43	-3.21	-1.77	0.75	1.87
θ (90°)	-0.45	-0.86	-2.91	-5.78	-4.58	-3.13	-2.52	-2.77	-4.03	-5.31	-4.07	-2.88	-2.36	-7.06	-3.94	-5.49	-9.51	-9.14	-6.96	-5.89	-5.75	-4.64	-1.76	-2.94	-0.45
θ (105°)	-5.19	-6.21	-7.92	-12.25	-14.35	-9.52	-8.71	-10.33	-17.34	-12.50	-9.14	-10.51	-14.51	-9.62	-6.02	-12.04	-10.30	-5.90	-4.61	-5.10	-7.67	-7.78	-3.47	-5.68	-5.19
θ (120°)	-10.24	-6.72	-13.86	-10.48	-11.97	-19.50	-20.96	-20.48	-16.63	-14.58	-25.33	-12.79	-16.69	-11.34	-12.45	-19.56	-20.12	-16.66	-10.21	-12.18	-21.24	-15.53	-12.59	-9.80	-10.24
θ (135°)	-13.95	-8.05	-12.67	-27.67	-20.54	-24.97	-26.34	-24.91	-23.68	-44.68	-14.40	-10.67	-15.36	-8.36	-9.27	-25.48	-13.33	-10.78	-9.52	-8.15	-8.33	-17.06	-12.91	-9.24	-13.95
θ (150°)	-14.38	-16.33	-15.90	-20.30	-22.75	-19.21	-19.26	-19.40	-15.66	-12.69	-10.41	-9.07	-10.97	-15.49	-15.02	-18.00	-17.11	-11.52	-9.15	-9.72	-13.24	-20.94	-13.48	-10.19	-14.38
θ (165°)	-22.74	-25.71	-22.74	-17.77	-15.39	-13.56	-11.75	-12.63	-16.78	-20.76	-22.67	-21.34	-19.98	-18.06	-16.73	-16.75	-17.06	-16.18	-14.94	-15.90	-17.28	-17.82	-18.83	-19.76	-22.74
θ (180°)	-14.68	-14.06	-13.69	-13.44	-13.73	-14.68	-15.93	-18.97	-24.40	-24.53	-19.06	-16.16	-15.20	-14.30	-13.33	-14.10	-14.51	-15.08	-18.18	-21.65	-22.29	-23.36	-20.31	-17.21	-14.68
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	0.04	-0.31	-1.30	-3.30	-7.15	-15.56	-20.94	-9.82	-5.16	-2.32	-0.56	0.41	0.63	0.00	-1.38	-3.59	-7.01	-14.32	-21.50	-9.49	-5.30	-2.59	-0.82
θ (15°)	0.25	-1.00	-2.92	-5.77	-9.88	-15.80	-19.51	-10.94	-7.29	-4.47	-2.22	-0.74	0.04	-0.09	-1.26	-3.76	-7.97	-16.29	-17.22	-7.49	-3.30	-0.91	0.54	[0.91]	0.25
θ (30°)	-0.45	-1.47	-3.02	-4.64	-7.27	-12.25	-27.94	-16.19	-9.62	-7.14	-5.76	-3.28	-1.42	-0.61	-1.17	-3.28	-7.14	-15.00	-18.69	-9.45	-5.16	-2.56	-0.90	-0.09	-0.45
θ (45°)	-3.21	-5.18	-5.24	-6.76	-11.45	-17.28	-23.81	-17.77	-12.09	-7.66	-6.76	-5.08	-3.31	-2.47	-2.31	-5.32	-10.86	-12.04	-11.21	-9.72	-5.80	-2.34	-1.43	-2.39	-3.21
θ (60°)	-6.11	-10.33	-8.16	-11.33	-25.50	-24.53	-20.15	-16.07	-17.29	-12.02	-7.49	-10.32	-6.94	-5.83	-3.31	-7.36	-9.25	-6.62	-9.57	-15.70	-11.68	-4.58	-1.94	-4.60	-6.11
θ (75°)	-6.18	-10.77	-13.07	-15.26	-11.26	-15.76	-15.61	-9.35	-8.47	-14.07	-6.57	-9.36	-7.61	-8.02	-3.68	-11.17	-5.04	-4.86	-13.07	-15.90	-12.56	-5.42	-2.36	-6.22	-6.18
θ (90°)	-6.32	-7.71	-7.42	-9.03	-6.00	-11.59	-23.71	-9.22	-5.17	-7.97	-8.45	-5.40	-6.30	-7.38	-4.69	-9.45	-4.76	-3.24	-9.66	-10.59	-7.31	-8.85	-1.91	-6.14	-6.32
θ (105°)	-6.32	-4.99	-7.68	-6.88	-6.35	-12.40	-23.36	-10.09	-6.67	-9.37	-6.10	-8.24	-4.73	-6.79	-5.41	-7.63	-5.32	-4.97	-10.53	-9.05	-11.03	-6.30	-3.85	-5.31	-6.32
θ (120°)	-8.59	-9.62	-5.05	-9.59	-8.10	-9.64	-18.66	-16.86	-10.09	-12.35	-7.95	-6.76	-8.55	-5.87	-8.90	-5.06	-7.32	-8.34	-10.93	-15.83	-17.86	-8.33	-6.32	-7.34	-8.59
θ (135°)	-10.87	-11.21	-7.56	-10.60	-12.91	-15.73	-29.47	-21.15	-19.33	-11.75	-7.18	-9.49	-9.99	-8.17	-13.11	-9.82	-9.93	-12.14	-16.24	-26.06	-14.82	-10.46	-11.97	-10.68	-10.87
θ (150°)	-11.40	-10.57	-10.30	-11.37	-16.13	-21.33	-26.50	-22.59	-15.88	-11.76	-9.38	-10.16	-10.38	-9.29	-12.47	-27.77	-18.74	-15.31	-16.32	-16.94	-16.06	-15.87	-20.49	-22.13	-11.40
θ (165°)	-14.58	-12.74	-11.66	-12.13	-14.16	-18.18	-27.65	-20.12	-14.76	-12.26	-11.48	-11.90	-13.64	-16.55	-22.37	-26.10	-19.56	-17.51	-17.73	-20.05	-24.94	-27.24	-21.94	-18.88	-14.58
θ (180°)	-15.92	-17.19	-20.47	-23.27	-19.42	-18.27	-18.16	-15.34	-13.64	-14.20	-14.64	-15.38	-17.39	-20.02	-23.86	-24.16	-19.27	-18.17	-16.08	-14.26	-14.32	-14.29	-14.02	-14.49	-15.92

Ant.	No.1																								
Freq (MHz)	2450																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	-17.64	-11.55	-7.22	-4.75	-2.75	-1.32	-1.08	-1.57	-2.63	-4.76	-8.15	-13.72	-20.05	-12.32	-7.32	-4.19	-2.31	-1.39	-1.34	-1.61	-2.44	-4.55	-7.94
θ (15°)	-7.57	-5.13	-3.22	-1.70	-0.76	-0.02	0.56	0.08	-1.26	-2.84	-4.13	-5.28	-7.07	-8.57	-7.78	-6.14	-4.68	-3.88	-4.19	-4.93	-6.09	-8.83	-11.77	-11.06	-7.57
θ (30°)	-1.55	-0.85	0.13	0.76	1.07	1.57	1.90	1.76	1.17	0.55	-0.03	-0.65	-1.28	-2.25	-2.73	-3.46	-4.70	-5.64	-5.68	-5.36	-4.93	-4.24	-3.08	-2.10	-1.55
θ (45°)	1.31	1.93	2.09	2.26	2.71	2.90	[2.94]	2.82	2.60	2.42	1.88	1.14	0.66	0.87	0.27	-3.18	-8.22	-12.35	-13.71	-11.95	-6.81	-1.80	0.93	1.14	1.31
θ (60°)	2.26	2.35	2.19	2.76	2.63	2.04	1.80	1.82	2.50	2.86	2.08	1.80	1.77	1.61	0.53	-4.81	-9.56	-16.73	-23.45	-33.09	-13.05	-6.29	-0.26	1.96	2.26
θ (75°)	1.69	0.40	0.38	1.22	0.89	1.68	1.82	1.22	0.90	1.22	0.35	0.44	0.60	-0.60	-2.51	-6.65	-13.47	-17.89	-10.50	-11.52	-10.05	-4.99	-1.01	-0.12	1.69
θ (90°)	-0.91	-2.55	-5.77	-3.08	-1.68	-0.46	-0.04	-0.64	-1.61	-2.27	-4.37	-4.81	-1.90	-8.20	-4.74	-6.49	-10.79	-12.19	-11.62	-9.52	-7.28	-5.63	-2.39	-3.93	-0.91
θ (105°)	-5.43	-8.78	-15.22	-11.64	-6.14	-5.49	-5.54	-5.53	-7.22	-14.71	-14.32	-11.16	-11.82	-13.47	-6.92	-12.62	-11.86	-7.50	-6.18	-6.39	-7.76	-7.11	-3.85	-7.61	-5.43
θ (120°)	-6.99	-7.45	-10.64	-9.31	-21.36	-13.19	-11.39	-13.72	-24.12	-12.65	-11.79	-11.83	-10.21	-13.20	-8.06	-14.00	-22.44	-16.18	-11.64	-12.28	-17.98	-14.04	-8.41	-11.22	-6.99
θ (135°)	-6.60	-6.25	-11.52	-7.44	-8.25	-10.40	-10.93	-9.60	-7.28	-7.57	-10.28	-5.97	-7.46	-11.78	-8.45	-11.61	-21.80	-18.62	-15.85	-14.64	-17.60	-17.77	-12.62	-16.00	-6.60
θ (150°)	-9.94	-8.27	-9.44	-10.98	-8.84	-7.89	-7.53	-8.23	-10.68	-13.82	-9.39	-5.38	-5.52	-9.90	-17.13	-15.88	-16.36	-23.38	-25.93	-20.81	-23.09	-22.34	-17.70	-14.56	-9.94
θ (165°)	-15.74	-12.36	-11.20	-11.81	-13.04	-14.81	-15.56	-15.04	-13.00	-11.53	-10.72	-10.68	-11.14	-12.62	-14.28	-15.03	-15.30	-13.69	-12.36	-12.77	-13.84	-16.04	-19.52	-20.84	-15.74
θ (180°)	-17.50	-20.88	-27.23	-36.98	-28.83	-21.20	-20.62	-17.80	-15.45	-15.85	-15.87	-16.36	-18.44	-20.85	-28.22	-37.64	-28.96	-22.67	-16.85	-14.63	-14.46	-14.30	-13.82	-14.22	-17.50
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	-1.12	-1.36	-2.70	-5.28	-9.41	-15.59	-17.95	-9.71	-5.97	-4.09	-2.55	-1.33	-1.04	-1.68	-3.02	-5.19	-9.18	-18.48	-18.77	-10.53	-6.30	-3.62	-2.17
θ (15°)	-1.75	-3.00	-4.96	-7.51	-11.08	-19.87	-19.49	-11.60	-7.92	-6.08	-4.52	-2.64	-1.44	-1.19	-2.13	-4.31	-8.02	-16.79	-15.71	-7.45	-3.84	-1.71	-0.76	-0.86	-1.75
θ (30°)	-3.87	-5.48	-6.50	-8.77	-12.75	-19.21	-23.47	-15.12	-10.18	-7.14	-6.36	-5.76	-3.40	-1.92	-2.43	-4.74	-9.19	-18.53	-18.40	-8.76	-4.81	-2.57	-1.37	-1.63	-3.87
θ (45°)	-7.03	-9.21	-11.64	-20.65	-19.03	-24.72	-23.87	-20.33	-19.39	-11.20	-8.26	-9.80	-6.79	-3.54	-2.88	-5.09	-10.88	-22.09	-16.78	-9.42	-4.84	-2.48	-2.43	-3.09	-7.03
θ (60°)	-9.03	-10.47	-16.66	-16.42	-16.55	-23.73	-17.50	-13.77	-11.41	-14.04	-14.31	-8.48	-9.56	-6.23	-3.61	-5.21	-7.94	-9.22	-15.77	-14.77	-6.52	-2.96	-1.28	-3.34	-9.03
θ (75°)	-4.97	-6.71	-12.48	-7.85	-12.62	-23.78	-14.51	-9.59	-6.15	-6.42	-9.86	-5.32	-4.94	-4.63	-2.13	-4.23	-3.06	-4.24	-15.35	-9.74	-4.94	-1.58	[-0.44]	-2.75	-4.97
θ (90°)	-3.23	-3.86	-7.53	-5.91	-7.61	-15.59	-15.36	-7.39	-3.47	-3.20	-6.58	-2.64	-3.52	-2.65	-2.06	-3.30	-1.92	-2.42	-10.25	-10.45	-4.80	-2.85	-0.55	-1.91	-3.23
θ (105°)	-4.04	-4.10	-7.64	-6.50	-8.07	-14.19	-10.24	-5.83	-2.86	-3.75	-4.88	-3.20	-2.81	-2.90	-3.66	-3.15	-2.27	-4.09	-12.17	-12.60	-6.72	-3.17	-1.90	-2.00	-4.04
θ (120°)	-6.81	-8.14	-5.86	-8.57	-8.41	-12.23	-15.28	-8.61	-5.49	-6.26	-6.43	-5.01	-6.20	-4.01	-6.59	-5.06	-4.90	-5.98	-11.04	-24.94	-11.81	-6.87	-4.96	-5.33	-6.81
θ (135°)	-10.71	-12.59	-9.25	-10.12	-12.41	-17.37	-19.63	-13.34	-12.72	-10.05	-7.85	-11.37	-10.33	-9.28	-11.58	-9.33	-8.36	-10.00	-15.18	-30.77	-14.76	-10.04	-10.06	-10.93	-10.71
θ (150°)	-17.12	-15.56	-16.69	-15.31	-16.65	-19.59	-27.69	-23.59	-16.47	-15.55	-17.83	-16.43	-13.38	-13.46	-18.37	-22.17	-15.42	-13.33	-15.74	-20.50	-18.19	-14.40	-13.80	-18.64	-17.12
θ (165°)	-18.27	-16.91	-19.96	-25.66	-24.82	-31.74	-45.61	-31.57	-28.45	-28.68	-24.56	-23.20	-26.62	-27.04	-19.46	-15.52	-14.56	-15.29	-19.14	-31.30	-21.20	-17.90	-17.61	-18.88	-18.27
θ (180°)	-17.46	-16.10	-16.12	-16.50	-15.45	-16.17	-18.99	-22.44	-24.92	-28.58	-24.65	-18.93	-15.98	-15.15	-13.78	-13.22	-14.45	-15.75	-16.21	-18.66	-24.58	-29.50	-30.75	-23.02	-17.46

Ant.	No.1																								
Freq. (MHz)	2500																								
Polarity	Theta																								
dB	φ																								
	φ (0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-20.51	-13.61	-7.58	-4.52	-3.00	-2.17	-1.51	-1.81	-3.02	-4.57	-6.82	-10.86	-19.20	-12.64	-7.46	-4.67	-3.05	-2.16	-1.62	-1.80	-2.98	-4.41	-6.49	-10.32	-20.51
θ (15°)	-7.95	-4.66	-2.46	-1.00	-0.10	0.31	0.30	0.13	-0.43	-1.43	-2.59	-3.85	-5.22	-7.07	-7.42	-5.83	-4.36	-3.76	-3.85	-4.45	-6.27	-9.26	-13.22	-13.34	-7.95
θ (30°)	-1.39	-0.35	1.23	2.06	2.39	2.41	2.31	2.45	2.53	2.25	1.46	0.09	-0.49	-1.04	-2.63	-4.30	-5.91	-6.84	-7.23	-7.76	-7.53	-5.76	-3.51	-2.16	-1.39
θ (45°)	1.89	2.47	3.34	3.52	3.59	3.30	3.17	3.29	3.45	3.62	3.43	2.10	1.72	1.82	0.21	-2.67	-6.26	-9.79	-12.26	-10.32	-5.72	-2.15	0.28	1.59	1.89
θ (60°)	2.76	2.66	3.47	3.49	3.11	2.88	2.58	2.16	2.60	3.64	[3.68]	2.73	2.33	2.27	0.66	-2.75	-8.13	-19.32	-22.93	-22.65	-11.62	-3.40	0.27	2.12	2.76
θ (75°)	1.89	0.58	1.72	1.69	2.13	3.12	3.25	2.27	1.06	1.84	1.84	0.37	0.86	-0.83	-1.72	-5.01	-15.22	-12.51	-8.04	-9.74	-11.35	-3.05	-0.14	-0.32	1.89
θ (90°)	-1.67	-4.33	-4.44	-2.11	-0.99	0.37	0.80	0.04	-1.74	-2.13	-3.24	-6.20	-2.83	-9.15	-5.16	-6.89	-13.24	-14.36	-13.37	-11.30	-9.59	-6.40	-1.86	-5.39	-1.67
θ (105°)	-8.82	-13.53	-21.73	-8.92	-7.61	-9.20	-9.41	-8.92	-9.58	-12.75	-22.75	-18.23	-16.52	-13.87	-9.80	-17.57	-19.41	-11.81	-8.95	-9.63	-12.28	-9.57	-5.74	-9.94	-8.82
θ (120°)	-9.16	-8.68	-10.37	-10.87	-25.67	-14.57	-11.88	-13.82	-24.02	-12.23	-9.76	-8.56	-9.75	-9.40	-7.34	-12.70	-17.81	-23.76	-13.76	-15.22	-21.85	-30.97	-11.28	-11.03	-9.16
θ (135°)	-6.03	-5.93	-9.01	-7.00	-8.34	-10.79	-11.41	-9.54	-6.71	-6.04	-7.72	-5.22	-5.55	-6.99	-6.52	-9.40	-14.75	-19.48	-18.13	-16.76	-17.47	-12.75	-10.74	-11.79	-6.03
θ (150°)	-8.21	-7.35	-9.00	-9.99	-7.49	-6.65	-6.66	-7.08	-8.19	-9.58	-7.45	-4.95	-4.92	-7.99	-13.04	-12.96	-11.68	-12.47	-14.30	-15.01	-15.21	-15.42	-12.80	-10.77	-8.21
θ (165°)	-13.30	-10.25	-8.98	-8.95	-10.03	-12.25	-13.36	-13.31	-13.22	-12.24	-11.34	-10.67	-10.64	-11.41	-11.61	-11.40	-11.83	-12.41	-13.26	-14.46	-16.05	-19.08	-20.96	-19.48	-13.30
θ (180°)	-17.72	-19.40	-19.29	-17.51	-15.80	-14.11	-13.47	-12.92	-12.66	-12.77	-13.74	-16.04	-18.00	-20.47	-18.43	-16.31	-15.77	-14.02	-12.05	-11.47	-11.96	-12.03	-12.30	-13.75	-17.72
Polarity	Phi																								
dB	φ																								
	φ (0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-1.51	-2.03	-3.49	-5.39	-7.73	-11.88	-15.46	-10.41	-6.39	-3.9	-2.57	-1.88	-1.56	-1.87	-2.92	-4.72	-7.55	-12.92	-22.42	-12.15	-6.71	-4.22	-2.9	-1.9	-1.51
θ (15°)	-1.97	-3.55	-5.33	-7.44	-10.65	-15.81	-15.99	-9.94	-6.61	-4.88	-3.92	-3.19	-2.23	-1.58	-2.04	-3.54	-6.75	-15.11	-15.16	-7.03	-3.21	-1.49	[-0.97]	-0.98	-1.97
θ (30°)	-3.61	-4.65	-6.76	-10.19	-12.12	-13.89	-19.89	-18.87	-12.57	-8.49	-6.09	-5.87	-4.67	-2.28	-1.52	-2.96	-6.75	-15.13	-17.95	-9.61	-5.64	-2.98	-1.59	-1.8	-3.61
θ (45°)	-7.85	-8.81	-12.7	-9.9	-10.41	-16.28	-21.56	-14.41	-15.05	-17.12	-8.81	-7.14	-8.05	-3.75	-2.7	-5.27	-10.22	-17.39	-22.13	-10.76	-5.9	-3.16	-1.78	-3.13	-7.85
θ (60°)	-8.33	-9.88	-14.16	-11.39	-16.54	-23.04	-18.06	-15.53	-12.18	-10.12	-13.95	-10.72	-9.4	-6.5	-2.59	-5.85	-8.02	-7.14	-12.49	-16.34	-7.8	-3.96	-1.47	-4.52	-8.33
θ (75°)	-4.99	-11.36	-11.04	-12.2	-26.3	-23.97	-18.59	-15.59	-11.25	-7.92	-9.82	-8.21	-6.53	-5.94	-2.3	-5.89	-2.26	-3.39	-14.62	-9.18	-5.13	-3.46	-1.55	-4.51	-4.99
θ (90°)	-4.85	-9.15	-10.62	-9.97	-14.32	-31.65	-15.78	-10.43	-7.07	-5.94	-8.07	-5.85	-4.84	-5.62	-3.03	-6.24	-1.47	-1.63	-9.32	-9.39	-3.78	-4.85	-1.73	-3.93	-4.85
θ (105°)	-6.54	-9.46	-11.95	-10.1	-11.78	-17.45	-11	-6.75	-4.59	-5.19	-7.26	-6.62	-4.66	-5.44	-5.25	-5.99	-2.18	-3.33	-12.56	-9.68	-6.78	-5.44	-3.17	-5.61	-6.54
θ (120°)	-11.07	-13.89	-10.09	-13.78	-11.16	-14.37	-14.63	-8.25	-6.35	-8.32	-9.14	-7.11	-10.89	-7.6	-7.99	-7.52	-7.35	-6.99	-12.01	-19.55	-15.35	-8.77	-7.41	-10.69	-11.07
θ (135°)	-17.8	-21.73	-14.23	-14.49	-14.77	-16.92	-18.85	-14.95	-15.36	-13.38	-10.18	-13.99	-18.79	-13.93	-20.23	-14.67	-11.52	-10.91	-13.07	-20.62	-18.85	-14.9	-19.18	-21.12	-17.8
θ (150°)	-19.56	-19.7	-26.11	-20.44	-19.44	-21.86	-24.49	-31	-28.36	-20.12	-18.91	-19.11	-21.96	-30.42	-26.82	-19.08	-15.47	-14.48	-15.62	-19.38	-27.35	-19.13	-15.87	-17.32	-19.56
θ (165°)	-13.15	-12.08	-13.19	-16.49	-20.23	-24.1	-22.64	-18.64	-17.37	-15.99	-14.86	-15.4	-16.97	-17.43	-16.15	-15.24	-15.05	-15.49	-17.63	-17.75	-15.33	-14.99	-15.42	-15.23	-13.15
θ (180°)	-12.9	-12.24	-12.07	-13.11	-15.2	-16.22	-16.84	-19.65	-20.12	-17.77	-15.59	-13.09	-11.76	-11.01	-10.57	-11.49	-12.86	-14.38	-16.59	-19.49	-18.75	-17.25	-16.92	-14.91	-12.9



Ant.	No.2																								
Freq. (MHz)	2400																								
Polarity	Theta																								
dB	Phi																								
	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
θ (0°)	-15.54	-9.65	-5.81	-3.36	-1.98	-1.55	-1.49	-2.10	-3.93	-6.89	-11.40	-22.33	-15.98	-8.97	-5.88	-4.07	-2.80	-1.94	-1.85	-2.52	-3.64	-5.97	-11.08	-22.67	-15.54
θ (15°)	-8.52	-5.64	-3.76	-2.49	-1.67	-1.08	-0.90	-1.21	-2.20	-3.93	-6.88	-13.00	-30.72	-14.02	-10.75	-9.31	-8.18	-7.49	-7.41	-8.14	-10.45	-14.61	-19.32	-15.71	-8.52
θ (30°)	-4.65	-4.47	-4.78	-3.88	-2.09	-0.81	-0.55	-1.07	-2.85	-5.11	-6.05	-7.49	-11.43	-13.42	-9.67	-7.61	-6.49	-6.03	-5.46	-4.82	-4.69	-5.64	-7.21	-8.04	-4.65
θ (45°)	-2.06	-5.35	-3.94	-0.86	0.42	0.85	0.96	0.42	-1.09	-3.88	-7.97	-6.70	-5.70	-6.04	-8.91	-9.13	-4.66	-3.44	-3.61	-4.18	-5.88	-9.46	-7.49	-4.98	-2.06
θ (60°)	-1.69	-5.98	-3.94	-0.59	0.24	1.73	2.67	1.99	0.09	-1.15	-4.38	-11.00	-4.20	-3.13	-9.32	-7.57	-5.07	-7.86	-7.64	-9.73	-9.86	-7.53	-17.25	-7.49	-1.69
θ (75°)	-3.76	-11.35	-2.87	-1.67	0.78	3.05	[3.60]	2.39	-0.29	-1.96	-4.37	-14.75	-3.45	-4.58	-13.18	-6.80	-13.30	-4.05	-1.01	-2.51	-9.13	-9.93	-12.99	-12.32	-3.76
θ (90°)	-4.68	-16.81	-4.56	-3.95	-3.58	0.21	1.35	0.40	-2.13	-4.76	-4.79	-13.79	-6.74	-5.20	-11.16	-6.69	-11.32	-2.94	0.41	0.23	-3.02	-6.24	-6.67	-8.39	-4.68
θ (105°)	-5.02	-13.95	-5.00	-4.01	-2.94	-1.21	-0.82	-2.36	-5.62	-7.19	-6.77	-18.55	-4.12	-2.61	-6.34	-3.27	-11.23	-8.08	-4.27	-7.03	-5.85	-1.59	-4.52	-3.43	-5.02
θ (120°)	-8.16	-12.47	-6.31	-7.62	-6.22	-3.08	-2.16	-3.83	-7.44	-9.13	-6.95	-8.60	-8.69	-0.09	-3.02	-5.08	-5.57	-13.51	-14.29	-16.30	-7.17	-3.81	-7.51	-0.89	-8.16
θ (135°)	-17.56	-5.66	-6.08	-13.91	-9.66	-7.53	-7.16	-7.99	-10.20	-11.55	-7.35	-10.66	-6.57	-0.90	-3.70	-12.91	-12.53	-13.86	-14.16	-12.30	-12.02	-13.05	-4.33	-2.30	-17.56
θ (150°)	-27.74	-9.03	-5.07	-8.33	-20.63	-13.48	-9.73	-10.46	-17.68	-17.66	-9.94	-9.12	-6.72	-2.89	-2.66	-5.63	-11.84	-19.32	-11.41	-11.27	-17.50	-21.05	-11.27	-9.17	-27.74
θ (165°)	-24.05	-16.58	-8.91	-6.41	-5.56	-5.62	-6.89	-7.96	-9.16	-12.66	-18.51	-20.12	-13.90	-10.02	-8.36	-8.29	-9.50	-10.54	-11.34	-13.87	-13.54	-12.72	-14.08	-15.73	-24.05
θ (180°)	-15.65	-14.78	-14.72	-15.16	-15.48	-15.85	-16.51	-17.56	-19.89	-24.59	-23.45	-18.29	-15.78	-15.07	-14.86	-14.39	-15.39	-17.71	-17.36	-17.23	-16.47	-15.33	-15.48	-14.85	-15.65
Polarity	Phi																								
dB	Phi																								
	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
θ (0°)	-1.53	-2.38	-4.29	-7.24	-12.37	-30.30	-14.38	-8.12	-4.86	-3.36	-2.70	-2.17	-2.26	-3.33	-5.47	-8.85	-13.78	-24.49	-13.72	-7.46	-4.81	-3.41	-2.45	-1.84	-1.53
θ (15°)	-1.75	-2.15	-3.58	-6.00	-10.62	-21.97	-18.44	-9.93	-5.39	-2.93	-1.99	-1.79	-3.06	-6.62	-12.45	-16.92	-15.43	-14.06	-12.53	-9.67	-7.07	-5.81	-4.47	-3.09	-1.75
θ (30°)	-1.74	-1.57	-3.05	-6.76	-12.78	-24.49	-18.72	-10.45	-6.94	-5.24	-3.28	-1.51	-1.95	-5.21	-9.28	-10.10	-10.44	-12.53	-16.85	-18.31	-12.90	-9.74	-7.35	-4.48	-1.74
θ (45°)	-2.46	-1.66	-4.97	-10.09	-12.25	-22.73	-15.35	-8.83	-6.62	-5.59	-3.19	-1.43	-3.03	-8.23	-9.48	-7.14	-11.24	-24.50	-19.22	-13.37	-9.65	-8.64	-8.21	-4.35	-2.46
θ (60°)	-3.57	-3.34	-4.83	-7.67	-8.39	-16.74	-17.07	-8.01	-4.75	-4.47	-4.57	-2.16	-2.23	-5.50	-11.00	-8.31	-25.71	-12.70	-11.68	-9.78	-9.68	-6.10	-6.60	-6.65	-3.57
θ (75°)	-2.96	-3.11	-6.81	-5.23	-7.45	-22.89	-11.04	-4.33	-1.61	-2.98	-2.86	-2.91	-2.34	-12.86	-6.04	-15.75	-3.96	-3.75	-10.73	-7.13	-7.29	-8.74	-3.94	-9.93	-2.96
θ (90°)	-1.48	-4.09	-3.32	-5.28	-3.37	-11.02	-13.33	-3.90	-0.46	-1.45	-3.43	-3.75	-2.59	-8.23	-3.29	-8.13	-0.69	-0.64	-9.62	-5.45	-1.40	-8.49	-2.25	-7.23	-1.48
θ (105°)	-0.82	-4.05	-3.25	-5.25	-3.78	-10.99	-10.43	-2.11	[-0.08]	-3.26	-2.46	-5.73	-1.67	-10.66	-1.66	-5.72	-0.43	-2.35	-20.35	-4.93	-3.42	-7.46	-1.37	-5.42	-0.82
θ (120°)	-2.13	-5.99	-4.00	-4.82	-6.18	-10.29	-28.60	-7.82	-4.57	-5.21	-3.68	-7.14	-2.43	-6.44	-5.02	-5.49	-5.56	-5.00	-14.43	-11.16	-6.86	-5.21	-1.65	-4.70	-2.13
θ (135°)	-6.30	-8.29	-5.89	-6.25	-8.72	-14.33	-22.68	-10.90	-7.01	-4.32	-5.60	-8.69	-5.17	-7.90	-6.49	-5.76	-8.01	-11.45	-22.40	-15.16	-8.45	-5.06	-4.38	-4.21	-6.30
θ (150°)	-7.63	-11.40	-12.64	-10.35	-10.72	-14.79	-19.86	-14.09	-10.46	-8.98	-10.66	-15.85	-9.76	-8.11	-9.45	-9.79	-9.66	-10.57	-15.37	-23.90	-14.66	-9.70	-5.66	-4.67	-7.63
θ (165°)	-12.18	-13.65	-13.02	-15.32	-23.50	-21.05	-14.54	-10.98	-10.26	-11.11	-11.01	-10.63	-10.66	-11.00	-11.83	-14.64	-22.07	-25.72	-15.25	-10.99	-8.70	-7.61	-7.45	-8.09	-12.18
θ (180°)	-15.07	-16.87	-20.42	-23.26	-22.92	-22.10	-21.92	-19.47	-15.79	-15.07	-16.92	-18.07	-17.27	-19.32	-21.56	-18.12	-16.24	-14.64	-14.11	-14.27	-14.22	-14.50	-16.05	-15.43	-15.07

Ant.	No.2																								
Freq (MHz)	2450																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-22.33	-11.74	-6.97	-4.53	-2.54	-1.21	-1.27	-1.69	-2.54	-4.78	-8.57	-15.53	-26.02	-11.17	-6.41	-3.81	-2.10	-1.17	-1.02	-1.37	-2.40	-4.77	-8.41	-15.19
θ (15°)	-14.38	-8.39	-5.83	-4.33	-2.79	-1.87	-1.92	-2.49	-3.58	-5.46	-8.14	-12.77	-28.86	-14.81	-10.33	-9.48	-9.38	-9.21	-9.39	-10.90	-12.02	-13.77	-19.44	-30.85	-14.38
θ (30°)	-9.54	-7.86	-5.71	-3.32	-1.43	-0.60	-0.31	-0.64	-1.51	-3.48	-6.84	-10.06	-13.59	-17.55	-12.90	-8.58	-5.65	-3.99	-3.31	-2.79	-2.92	-4.76	-8.02	-11.43	-9.54
θ (45°)	-6.29	-6.86	-3.92	-1.22	-0.17	0.27	0.39	0.09	-0.85	-2.93	-5.55	-8.57	-7.98	-7.09	-6.41	-9.55	-10.35	-7.55	-6.36	-7.13	-7.66	-4.62	-3.68	-4.95	-6.29
θ (60°)	-6.07	-8.03	-3.18	-1.27	0.75	2.83	3.47	2.83	1.24	-0.81	-2.62	-6.77	-6.98	-3.52	-5.66	-12.41	-5.47	-4.40	-4.36	-4.67	-6.20	-11.79	-9.93	-5.32	-6.07
θ (75°)	-7.54	-7.20	-2.95	-1.66	2.17	4.25	[4.54]	3.70	1.32	-1.57	-2.55	-8.30	-7.02	-4.21	-14.05	-7.06	-6.69	-5.55	-3.34	-4.44	-7.39	-8.99	-15.31	-6.79	-7.54
θ (90°)	-7.10	-11.39	-3.68	-4.82	-0.94	1.86	2.52	2.18	0.32	-3.40	-3.96	-7.24	-10.16	-3.81	-11.05	-8.05	-9.23	-6.47	-2.93	-2.96	-5.28	-5.58	-12.53	-4.51	-7.10
θ (105°)	-7.22	-6.43	-3.30	-3.29	-1.50	-0.05	0.27	-0.62	-2.78	-5.01	-4.66	-9.06	-6.10	-1.71	-7.81	-5.79	-10.41	-16.38	-9.24	-12.55	-7.30	-4.64	-8.56	-2.25	-7.22
θ (120°)	-12.30	-7.68	-4.29	-5.50	-3.06	-0.86	-0.32	-1.10	-3.45	-6.76	-5.89	-6.06	-13.08	-1.33	-3.04	-10.23	-12.07	-32.53	-14.53	-23.97	-11.01	-8.52	-8.78	-1.05	-12.30
θ (135°)	-23.38	-6.17	-6.99	-8.58	-7.59	-6.04	-5.95	-7.50	-9.29	-9.49	-7.94	-10.79	-11.67	-1.89	-2.81	-11.85	-17.06	-12.54	-11.29	-11.00	-13.43	-14.71	-4.23	-3.11	-23.38
θ (150°)	-15.11	-8.00	-7.85	-16.23	-10.20	-6.46	-5.74	-6.27	-8.35	-15.77	-14.97	-11.99	-11.94	-5.42	-3.25	-5.09	-11.67	-15.57	-9.06	-8.80	-12.91	-17.70	-12.73	-13.28	-15.11
θ (165°)	-24.38	-15.47	-11.00	-9.55	-9.37	-9.66	-9.99	-12.80	-15.29	-14.35	-14.47	-16.39	-19.31	-15.85	-10.61	-7.31	-5.00	-3.47	-3.32	-4.06	-5.49	-8.81	-14.67	-20.24	-24.38
θ (180°)	-14.78	-16.07	-20.85	-28.09	-22.88	-19.82	-17.63	-14.68	-12.85	-12.96	-13.34	-13.88	-15.64	-19.23	-24.46	-32.15	-21.65	-15.91	-13.50	-12.39	-11.55	-10.82	-11.22	-12.20	-14.78
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-1.43	-1.71	-2.74	-4.96	-8.85	-16.61	-19.03	-9.68	-5.52	-3.37	-2.13	-1.33	-0.95	-1.46	-2.80	-4.94	-8.84	-18.41	-19.02	-9.82	-5.48	-2.93	-1.54	-1.20
θ (15°)	-0.79	-1.75	-3.78	-6.83	-10.88	-18.55	-20.98	-10.57	-6.55	-4.41	-2.81	-1.70	-1.54	-2.83	-5.64	-10.92	-20.37	-22.97	-12.97	-8.81	-6.76	-4.30	-2.07	-1.07	-0.79
θ (30°)	-0.03	-0.91	-3.29	-5.36	-8.09	-14.75	-21.94	-10.56	-6.26	-4.36	-3.92	-2.54	-1.52	-3.81	-10.00	-11.01	-8.64	-10.28	-15.20	-18.63	-13.08	-10.49	-7.40	-2.39	-0.03
θ (45°)	-0.60	-2.14	-3.91	-4.60	-8.77	-16.49	-22.49	-10.58	-6.00	-4.35	-3.84	-2.07	-2.02	-7.59	-10.27	-6.64	-7.94	-12.79	-18.68	-12.73	-8.78	-7.36	-6.85	-4.55	-0.6
θ (60°)	-1.50	-1.38	-3.44	-3.65	-7.47	-12.02	-21.85	-12.31	-7.41	-3.33	-3.66	-2.85	-1.33	-5.40	-8.28	-6.51	-13.04	-23.16	-14.74	-9.67	-6.78	-3.70	-4.47	-6.58	-1.5
θ (75°)	-2.23	-1.98	-3.80	-3.10	-7.31	-11.43	-16.67	-7.21	-3.96	-1.55	-2.85	-1.72	-2.76	-7.30	-6.51	-10.34	-8.42	-6.54	-13.02	-9.38	-10.21	-4.51	-3.40	-5.76	-2.23
θ (90°)	-1.35	-1.34	-3.94	-2.05	-4.45	-10.41	-20.60	-6.19	-1.66	-0.56	-2.73	-1.79	-4.24	-5.43	-6.17	-7.15	-2.86	-2.63	-14.24	-7.23	-3.76	-9.06	-2.79	-4.78	-1.35
θ (105°)	-0.74	-1.90	-3.08	-1.72	-3.81	-13.35	-11.26	-3.07	[0.10]	-1.12	-3.34	-2.34	-4.12	-9.27	-4.60	-6.11	-2.41	-3.94	-23.94	-6.39	-4.14	-5.47	-2.34	-3.82	-0.74
θ (120°)	-1.66	-3.63	-2.13	-2.81	-3.42	-8.45	-16.18	-5.52	-2.43	-3.44	-4.14	-3.66	-4.71	-4.65	-7.82	-4.50	-5.48	-5.63	-12.90	-12.75	-7.33	-5.71	-2.08	-3.95	-1.66
θ (135°)	-4.33	-4.73	-3.68	-4.05	-5.80	-11.20	-18.79	-9.70	-7.03	-4.41	-3.95	-6.67	-5.36	-6.94	-8.04	-5.59	-6.71	-9.74	-18.94	-18.71	-8.83	-3.98	-3.20	-4.11	-4.33
θ (150°)	-7.49	-5.84	-5.71	-5.87	-7.32	-10.47	-19.01	-17.46	-10.33	-8.16	-6.39	-6.47	-8.10	-12.63	-19.33	-10.71	-7.39	-8.14	-13.14	-18.71	-11.55	-7.22	-6.21	-8.52	-7.49
θ (165°)	-13.91	-9.33	-8.37	-10.16	-14.25	-21.72	-22.00	-12.48	-8.47	-7.63	-8.69	-10.21	-12.42	-15.34	-14.60	-12.60	-13.71	-20.73	-19.25	-10.30	-7.81	-7.79	-9.72	-13.90	-13.9
θ (180°)	-15.78	-14.30	-12.97	-12.77	-12.71	-13.29	-15.09	-19.17	-21.52	-23.15	-18.47	-13.50	-12.36	-11.34	-10.00	-10.07	-11.50	-12.64	-13.30	-15.14	-21.36	-27.10	-21.22	-17.85	-15.8

Ant.	No.2																								
Freq. (MHz)	2500																								
Polarity	Theta																								
dB	Phi																								
	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
θ (0°)	-18.61	-10.27	-5.97	-3.78	-2.56	-1.80	-1.85	-2.69	-3.52	-5.24	-9.27	-17.45	-23.38	-11.27	-6.00	-3.08	-1.73	-1.41	-1.47	-1.53	-2.45	-4.19	-7.12	-13.23	-18.61
θ (15°)	-14.67	-8.30	-5.19	-2.88	-1.55	-1.54	-1.96	-2.60	-3.89	-5.98	-9.38	-15.42	-26.99	-13.38	-9.09	-7.88	-8.17	-9.45	-11.24	-11.40	-11.05	-12.29	-15.78	-24.21	-14.67
θ (30°)	-11.12	-8.87	-7.10	-3.58	-1.74	-1.65	-1.92	-1.96	-2.79	-5.15	-8.73	-11.24	-16.67	-26.84	-14.96	-10.32	-6.74	-4.33	-2.76	-2.35	-3.43	-5.90	-10.37	-14.18	-11.12
θ (45°)	-8.35	-9.07	-5.38	-1.56	-0.98	-0.34	-0.22	-0.83	-1.27	-3.34	-9.76	-10.25	-11.99	-13.06	-8.01	-6.41	-7.57	-8.19	-7.97	-6.96	-3.49	-2.25	-4.51	-7.02	-8.35
θ (60°)	-7.79	-7.83	-4.47	-1.17	0.92	3.05	3.53	2.63	0.80	-0.88	-3.68	-8.42	-8.39	-6.78	-5.77	-10.00	-10.21	-4.48	-2.62	-3.63	-8.53	-11.18	-5.60	-5.65	-7.79
θ (75°)	-13.26	-6.74	-3.24	-0.71	3.13	4.60	[4.89]	4.27	2.14	-0.99	-2.98	-7.27	-8.89	-6.19	-10.35	-11.31	-4.86	-1.37	-0.24	-1.33	-5.13	-17.45	-9.70	-8.60	-13.26
θ (90°)	-12.79	-9.69	-3.78	-3.77	0.52	2.78	3.10	2.88	1.71	-1.76	-3.82	-5.65	-16.88	-6.01	-8.78	-9.57	-7.16	-4.06	-1.75	-1.75	-3.35	-7.72	-12.36	-3.63	-12.79
θ (105°)	-11.86	-5.30	-4.01	-4.10	-2.33	-0.99	-0.58	-1.04	-3.15	-5.97	-4.64	-7.14	-9.09	-1.76	-5.86	-6.56	-9.76	-13.08	-7.85	-8.77	-7.38	-7.79	-5.46	-1.23	-11.86
θ (120°)	-15.36	-5.29	-4.24	-6.15	-4.47	-2.35	-1.97	-2.89	-4.71	-6.87	-5.94	-5.32	-13.17	-1.12	-1.55	-7.75	-13.06	-15.09	-9.28	-13.47	-21.29	-14.06	-5.05	-0.95	-15.36
θ (135°)	-16.16	-4.68	-7.35	-11.86	-8.46	-4.76	-4.46	-7.22	-12.09	-13.14	-7.67	-7.29	-15.91	-2.47	-2.43	-9.01	-24.03	-17.91	-13.10	-14.76	-25.54	-11.98	-4.37	-4.43	-16.16
θ (150°)	-11.51	-6.69	-7.30	-19.32	-13.54	-9.16	-8.69	-9.47	-11.52	-20.82	-12.25	-10.29	-25.82	-9.04	-5.16	-7.28	-15.58	-15.17	-9.67	-9.09	-13.29	-26.24	-11.02	-11.56	-11.51
θ (165°)	-19.08	-14.50	-11.45	-9.72	-8.59	-7.55	-7.50	-9.34	-13.82	-15.77	-14.30	-14.83	-19.93	-22.12	-16.38	-12.69	-8.80	-6.50	-5.99	-6.67	-9.10	-15.95	-37.99	-24.24	-19.08
θ (180°)	-17.33	-18.17	-23.31	-23.02	-19.86	-18.42	-15.83	-14.28	-13.58	-12.55	-13.03	-15.42	-19.30	-24.05	-28.00	-22.43	-18.09	-16.80	-15.26	-14.38	-13.83	-13.05	-13.79	-16.30	-17.33
Polarity	Phi																								
dB	Phi																								
	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
θ (0°)	-1.60	-2.26	-3.67	-5.86	-9.38	-16.97	-20.45	-10.42	-6.03	-3.50	-2.28	-2.04	-2.26	-2.63	-3.56	-5.64	-9.98	-19.21	-20.45	-9.84	-5.18	-2.80	-1.64	-1.01	-1.60
θ (15°)	-1.48	-2.40	-3.87	-6.14	-10.46	-26.96	-13.33	-7.77	-4.96	-2.99	-2.02	-2.00	-2.10	-2.81	-4.97	-9.17	-17.65	-25.58	-14.61	-10.52	-6.99	-4.09	-2.28	-1.41	-1.48
θ (30°)	-1.00	-2.16	-3.45	-4.97	-8.66	-16.16	-18.14	-10.70	-5.45	-2.64	-2.11	-2.33	-1.92	-3.52	-11.52	-14.76	-9.30	-9.67	-12.64	-14.34	-11.98	-11.34	-7.73	-2.56	-1.00
θ (45°)	-0.45	-2.65	-2.67	-5.65	-8.75	-12.69	-31.65	-17.36	-8.34	-3.75	-2.70	-2.12	-1.15	-6.53	-11.27	-4.74	-5.67	-10.32	-17.77	-14.03	-10.41	-7.49	-11.30	-5.20	-0.45
θ (60°)	-0.48	-2.75	-3.29	-6.25	-6.06	-7.10	-17.81	-11.57	-9.57	-7.07	-2.82	-3.92	-1.25	-6.02	-7.29	-3.68	-10.36	-19.84	-13.15	-7.80	-6.05	-3.79	-4.41	-8.86	-0.48
θ (75°)	-1.50	-4.51	-3.76	-5.10	-4.13	-6.99	-33.77	-7.15	-5.23	-4.72	-2.15	-2.72	-1.50	-10.13	-4.72	-10.46	-7.14	-5.87	-15.06	-8.65	-8.46	-4.29	-2.46	-9.32	-1.50
θ (90°)	-1.54	-4.42	-3.69	-4.02	-2.69	-5.60	-21.40	-6.30	-2.08	-1.58	-2.82	-2.56	-2.53	-7.62	-5.80	-13.22	-2.61	-1.66	-10.28	-9.19	-3.87	-12.65	-2.15	-7.11	-1.54
θ (105°)	-0.13	-4.60	-2.64	-2.64	-3.00	-8.77	-11.86	-1.89	[0.45]	-0.36	-3.36	-2.35	-2.72	-12.03	-4.80	-8.69	-1.00	-1.98	-18.27	-4.82	-2.68	-8.17	-2.23	-6.74	-0.13
θ (120°)	-0.67	-4.59	-2.30	-3.07	-3.05	-8.75	-14.33	-3.17	-0.89	-2.53	-4.22	-4.28	-3.74	-5.81	-4.46	-4.43	-4.01	-2.66	-9.77	-11.56	-6.88	-5.93	-1.42	-6.72	-0.67
θ (135°)	-3.11	-6.25	-3.27	-4.08	-5.80	-10.61	-13.55	-5.98	-5.41	-4.47	-3.26	-7.10	-4.79	-8.26	-6.16	-4.12	-6.05	-8.53	-15.78	-17.03	-6.46	-2.16	-2.71	-5.49	-3.11
θ (150°)	-5.22	-5.87	-6.25	-5.40	-7.32	-12.26	-21.93	-17.87	-9.20	-7.50	-8.18	-7.31	-5.64	-7.39	-14.26	-8.16	-5.96	-7.46	-12.79	-14.69	-8.04	-5.26	-6.92	-9.46	-5.22
θ (165°)	-13.85	-10.37	-9.18	-9.46	-12.62	-22.46	-16.65	-11.19	-7.46	-5.69	-6.57	-8.68	-10.58	-13.59	-16.08	-13.41	-12.19	-14.56	-17.08	-10.92	-8.66	-8.89	-11.65	-16.70	-13.85
θ (180°)	-16.23	-14.94	-13.01	-12.16	-12.86	-14.16	-15.60	-18.57	-23.05	-27.37	-18.27	-14.47	-13.16	-11.37	-10.95	-12.60	-14.90	-16.19	-16.86	-18.70	-25.52	-23.78	-16.95	-16.07	-16.23



Ant.	No.3																								
Freq. (MHz)	2400																								
Polarity	Theta																								
dB	Phi																								
	(0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-15.16	-18.73	-9.38	-4.75	-1.81	-0.13	0.27	0.14	-0.12	-1.09	-3.20	-6.77	-13.25	-20.77	-9.89	-4.88	-2.07	-0.52	0.31	0.62	0.33	-0.79	-2.92	-6.41	-15.16
θ (15°)	-4.77	-5.41	-4.28	-2.54	-0.94	-0.10	-0.34	-1.29	-2.33	-3.94	-6.81	-10.72	-11.50	-7.76	-4.34	-1.88	-0.36	0.24	0.54	[0.72]	0.64	-0.09	-1.43	-2.61	-4.77
θ (30°)	-0.79	-1.01	-1.52	-2.17	-2.77	-3.41	-3.54	-3.43	-4.23	-5.57	-6.15	-5.53	-4.00	-2.49	-1.76	-1.40	-0.93	-0.39	0.07	0.27	0.32	0.12	-0.25	-0.47	-0.79
θ (45°)	0.40	0.43	-1.18	-3.84	-5.53	-5.85	-5.58	-5.79	-5.68	-4.16	-2.87	-2.87	-1.63	-0.19	-1.06	-1.61	-0.22	0.45	0.38	0.23	-0.39	-1.55	-0.46	0.57	0.40
θ (60°)	-2.08	-1.39	-4.10	-7.52	-10.77	-20.33	-21.47	-20.26	-10.35	-6.84	-4.18	-1.42	-2.13	-0.64	-2.24	-2.25	0.01	-0.62	-1.97	-1.89	-0.78	-1.40	-4.09	-1.30	-2.08
θ (75°)	-6.56	-6.73	-7.59	-10.00	-12.59	-5.57	-4.61	-7.91	-15.46	-6.52	-6.99	-4.87	-5.49	-2.88	-6.84	-3.01	-2.17	-4.86	-6.90	-6.18	-2.93	-4.24	-6.92	-4.09	-6.56
θ (90°)	-6.72	-10.31	-3.76	-3.79	-6.57	-5.22	-4.41	-5.10	-7.33	-5.85	-3.57	-12.07	-9.85	-9.66	-7.93	-9.60	-5.25	-4.42	-3.76	-3.87	-4.60	-6.34	-9.22	-7.29	-6.72
θ (105°)	-10.04	-14.46	-5.62	-8.15	-7.13	-5.03	-4.93	-6.03	-9.00	-7.42	-2.99	-9.91	-11.25	-13.40	-8.01	-10.16	-8.82	-5.23	-4.28	-5.31	-9.64	-12.10	-9.13	-15.53	-10.04
θ (120°)	-7.80	-17.84	-9.35	-12.80	-13.40	-8.44	-5.91	-8.04	-15.43	-16.63	-7.04	-8.12	-12.77	-7.29	-10.61	-5.68	-8.37	-9.31	-7.90	-9.50	-11.46	-7.23	-8.69	-10.05	-7.80
θ (135°)	-6.62	-14.44	-22.21	-13.32	-10.90	-12.00	-14.21	-16.63	-23.73	-15.28	-10.24	-22.00	-7.95	-6.20	-11.84	-7.41	-6.06	-6.52	-6.93	-6.10	-4.95	-5.27	-7.65	-6.65	-6.62
θ (150°)	-11.14	-14.61	-29.51	-15.15	-9.12	-6.96	-7.78	-11.44	-17.23	-19.76	-17.49	-12.98	-7.51	-5.58	-7.93	-14.50	-16.24	-11.66	-8.73	-7.37	-7.10	-7.94	-8.95	-9.18	-11.14
θ (165°)	-11.16	-10.21	-9.44	-9.02	-8.42	-8.18	-10.63	-17.35	-22.06	-21.00	-21.52	-18.21	-13.29	-10.80	-10.03	-10.14	-11.91	-15.55	-18.25	-20.07	-20.22	-19.34	-15.26	-12.79	-11.16
θ (180°)	-14.82	-14.57	-13.18	-12.75	-13.20	-13.04	-13.55	-14.63	-15.80	-15.96	-15.02	-14.43	-14.34	-14.19	-14.11	-14.13	-14.22	-14.77	-15.59	-15.62	-16.80	-19.60	-19.47	-16.52	-14.82
Polarity	Phi																								
dB	Phi																								
	(0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	0.13	-0.02	-0.73	-2.02	-4.34	-8.90	-18.95	-16.00	-8.63	-4.22	-1.78	-0.71	-0.16	0.03	-0.32	-1.40	-3.37	-6.73	-13.17	-19.60	-9.34	-4.69	-2.07	-0.54	0.13
θ (15°)	-0.25	-0.13	-1.03	-3.00	-6.02	-11.54	-15.42	-8.40	-4.87	-2.63	-1.42	-0.80	-0.44	-0.81	-2.19	-4.40	-7.61	-12.95	-24.12	-14.60	-8.26	-4.63	-2.61	-1.45	-0.25
θ (30°)	-1.72	-0.80	-0.79	-2.50	-5.89	-11.35	-18.52	-13.18	-7.35	-3.87	-2.46	-2.21	-2.16	-3.03	-4.98	-6.69	-8.35	-11.42	-15.83	-17.56	-12.76	-9.06	-6.58	-4.12	-1.72
θ (45°)	-6.36	-2.77	-1.70	-3.55	-7.48	-13.02	-15.76	-17.20	-11.41	-6.06	-4.99	-6.00	-6.91	-9.50	-10.36	-9.89	-11.55	-14.15	-15.31	-13.98	-12.34	-11.85	-11.75	-10.57	-6.36
θ (60°)	-10.93	-5.89	-1.78	-2.85	-6.94	-12.10	-16.48	-11.52	-9.91	-6.10	-3.28	-7.18	-11.50	-11.12	-13.62	-22.50	-12.03	-10.33	-13.12	-12.95	-8.25	-8.59	-18.18	-22.54	-10.93
θ (75°)	-4.05	-2.70	0.03	-3.42	-8.10	-23.40	-7.78	-2.75	-4.34	-2.93	-0.61	-4.37	-3.65	-3.81	-7.32	-11.50	-6.20	-7.25	-11.58	-6.50	-4.10	-8.35	-11.31	-6.79	-4.05
θ (90°)	0.60	0.66	[2.14]	-0.40	-4.53	-9.60	-5.27	0.70	0.61	-2.71	0.67	-1.16	-0.47	-1.61	-1.79	-4.43	-3.81	-6.17	-14.67	-5.32	-1.36	-3.30	-5.61	-1.90	0.60
θ (105°)	1.69	1.09	1.91	-0.92	-5.11	-10.55	-4.65	0.64	0.45	-2.42	-0.34	-0.95	-1.12	-0.52	-0.78	-3.46	-3.23	-7.06	-24.30	-5.69	-3.06	-4.88	-2.19	-1.09	1.69
θ (120°)	-0.84	-0.68	-1.90	-2.49	-8.25	-17.69	-12.82	-4.84	-2.78	-2.67	-2.70	-3.49	-1.68	-3.24	-2.07	-3.17	-4.99	-7.97	-18.21	-12.28	-9.15	-12.23	-5.90	-4.13	-0.84
θ (135°)	-4.45	-5.26	-8.30	-9.25	-12.81	-16.19	-12.57	-9.07	-7.28	-5.10	-4.71	-5.09	-5.28	-6.10	-4.90	-6.29	-8.91	-10.65	-12.00	-14.45	-17.44	-12.70	-10.51	-9.75	-4.45
θ (150°)	-7.61	-9.71	-16.66	-20.03	-18.50	-17.97	-12.41	-11.44	-17.97	-17.74	-9.41	-6.04	-5.74	-8.19	-9.82	-8.81	-9.17	-10.70	-12.18	-12.26	-12.12	-12.94	-12.09	-9.24	-7.61
θ (165°)	-16.33	-19.01	-23.19	-23.79	-18.18	-14.23	-12.03	-11.58	-13.70	-19.42	-18.44	-14.03	-13.67	-16.68	-26.41	-24.38	-17.54	-15.55	-15.58	-16.95	-20.17	-21.33	-17.65	-16.29	-16.33
θ (180°)	-13.49	-14.48	-15.72	-17.36	-17.16	-16.45	-16.83	-15.29	-13.83	-13.68	-13.63	-13.62	-14.45	-15.89	-16.22	-15.18	-14.53	-14.55	-14.41	-14.03	-12.96	-12.04	-11.82	-12.16	-13.49



Ant.	No.3																								
Freq (MHz)	2450																								
Polarity	Theta																								
dB	Phi																								
	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
θ (0°)	-18.02	-21.40	-10.07	-5.20	-2.52	-1.20	-0.51	-0.30	-0.99	-2.57	-5.05	-8.81	-15.95	-19.45	-10.67	-6.07	-3.02	-1.31	-0.64	-0.43	-0.83	-2.12	-4.22	-7.72	-18.02
θ (15°)	-6.25	-7.84	-7.20	-4.45	-2.09	-1.02	-0.95	-1.19	-2.03	-3.70	-5.98	-7.53	-6.88	-5.07	-3.50	-2.52	-1.51	-0.32	0.16	-0.28	-0.96	-1.67	-2.52	-3.60	-6.25
θ (30°)	-1.02	-1.31	-2.07	-3.53	-4.55	-4.38	-4.07	-4.34	-4.58	-4.29	-3.77	-2.85	-1.54	-0.63	-0.71	-1.01	-0.43	0.52	0.95	0.77	0.44	0.40	0.46	0.08	-1.02
θ (45°)	0.99	0.82	-1.03	-4.80	-7.43	-8.68	-9.53	-8.60	-6.27	-3.79	-1.72	-0.68	0.86	1.44	0.53	1.48	2.56	2.56	2.25	2.19	2.29	1.55	1.10	1.72	0.99
θ (60°)	-0.10	0.06	-1.99	-5.46	-7.95	-14.02	-21.08	-19.05	-10.21	-6.39	-2.66	0.11	-0.10	0.99	0.45	2.27	[2.63]	1.49	0.69	0.64	1.53	1.88	-0.14	0.53	-0.10
θ (75°)	-1.99	-2.68	-4.88	-7.88	-24.41	-9.64	-7.95	-13.53	-15.23	-6.34	-5.60	-2.99	-2.96	-2.11	-2.65	0.07	0.21	0.45	0.74	0.05	-0.29	-0.58	-3.46	-2.12	-1.99
θ (90°)	-4.18	-6.70	-4.16	-4.65	-9.37	-10.22	-10.88	-11.14	-12.32	-8.18	-4.34	-10.03	-5.92	-8.95	-7.37	-9.48	-5.59	-3.38	-2.70	-2.72	-3.63	-6.25	-7.74	-7.12	-4.18
θ (105°)	-8.34	-10.67	-5.73	-11.78	-12.24	-8.69	-7.95	-10.76	-14.33	-11.41	-3.97	-10.27	-6.17	-10.33	-8.31	-11.39	-9.94	-6.32	-6.00	-7.97	-15.74	-15.86	-12.11	-14.94	-8.34
θ (120°)	-6.95	-11.16	-4.50	-9.95	-23.07	-18.85	-13.39	-17.91	-15.82	-11.88	-5.06	-6.91	-8.89	-6.12	-12.85	-7.96	-10.73	-12.80	-12.54	-14.51	-11.65	-7.98	-10.31	-7.63	-6.95
θ (135°)	-11.16	-13.43	-8.80	-12.74	-24.34	-41.95	-28.23	-17.72	-11.15	-7.17	-6.21	-11.50	-8.74	-7.19	-14.54	-17.28	-14.74	-15.54	-16.96	-16.19	-14.33	-17.80	-17.38	-9.99	-11.16
θ (150°)	-12.65	-14.83	-15.98	-18.12	-22.30	-21.09	-24.75	-30.57	-20.29	-17.20	-14.52	-11.55	-8.19	-6.91	-8.30	-11.34	-14.22	-17.89	-19.78	-23.42	-17.81	-13.27	-11.00	-10.63	-12.65
θ (165°)	-17.18	-21.68	-24.27	-22.73	-19.46	-15.22	-12.58	-11.58	-11.46	-12.59	-15.52	-19.84	-23.82	-21.67	-15.25	-9.68	-6.84	-5.78	-4.88	-4.49	-5.58	-8.13	-11.33	-13.64	-17.18
θ (180°)	-19.55	-20.80	-20.13	-18.59	-17.48	-16.50	-15.28	-14.32	-13.87	-13.80	-13.95	-14.68	-16.08	-18.83	-20.18	-18.19	-16.82	-15.35	-14.24	-14.14	-13.52	-13.76	-13.76	-15.53	-19.55
Polarity	Phi																								
dB	Phi																								
	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
θ (0°)	-0.34	-0.43	-1.22	-2.83	-5.55	-9.98	-19.26	-13.74	-6.74	-3.81	-2.10	-0.83	-0.16	-0.31	-1.18	-2.73	-5.02	-8.74	-16.15	-21.95	-10.23	-5.73	-3.01	-1.30	-0.34
θ (15°)	-0.60	-0.06	-0.37	-1.72	-4.74	-11.65	-25.10	-10.39	-5.68	-3.13	-1.63	-0.92	-1.14	-2.21	-3.85	-5.98	-9.15	-15.07	-25.83	-13.98	-8.65	-5.80	-3.63	-2.23	-0.60
θ (30°)	-1.67	-0.39	0.31	-1.07	-4.58	-11.05	-31.77	-11.01	-5.97	-3.42	-2.22	-2.54	-3.87	-5.16	-6.29	-7.09	-8.39	-10.92	-15.70	-22.14	-15.27	-10.11	-6.77	-4.00	-1.67
θ (45°)	-5.70	-2.41	-0.70	-2.86	-7.16	-13.47	-29.86	-11.20	-6.48	-3.55	-2.71	-5.02	-7.00	-9.23	-10.93	-13.36	-18.67	-20.40	-20.67	-24.88	-26.67	-15.41	-9.87	-7.29	-5.70
θ (60°)	-4.80	-3.96	-1.14	-3.30	-7.16	-11.71	-23.32	-8.51	-7.07	-3.82	-1.18	-4.74	-5.07	-5.51	-8.06	-15.99	-13.81	-11.38	-13.76	-13.31	-10.48	-15.44	-16.07	-8.14	-4.80
θ (75°)	-0.63	-0.74	0.36	-3.27	-5.25	-15.19	-8.63	-3.14	-3.79	-3.15	-0.59	-2.88	-1.82	-2.55	-3.87	-6.20	-4.17	-6.62	-11.65	-5.94	-3.69	-7.66	-7.29	-4.64	-0.63
θ (90°)	[1.40]	1.03	1.23	-1.57	-2.81	-6.37	-7.74	-0.37	0.82	-4.02	-1.03	-2.09	-0.64	-1.41	-1.78	-2.57	-1.29	-3.91	-12.57	-6.64	-2.18	-3.39	-4.81	-1.95	1.40
θ (105°)	-1.03	-1.22	-1.27	-4.46	-6.04	-8.92	-6.66	-0.90	-0.84	-4.86	-2.64	-2.32	-2.79	-3.16	-2.88	-3.26	-2.86	-5.83	-14.18	-9.88	-5.21	-6.28	-4.36	-3.66	-1.03
θ (120°)	-8.93	-7.05	-8.71	-10.06	-17.75	-17.11	-13.33	-7.96	-7.76	-7.92	-6.50	-7.26	-5.33	-7.03	-7.08	-6.92	-6.94	-9.69	-16.60	-22.06	-13.37	-16.12	-12.30	-9.96	-8.93
θ (135°)	-21.85	-19.09	-19.80	-18.86	-25.26	-18.54	-12.70	-10.64	-12.22	-14.79	-12.17	-12.27	-16.42	-12.71	-9.39	-9.96	-11.77	-15.55	-20.77	-21.78	-25.88	-27.60	-19.72	-21.23	-21.85
θ (150°)	-14.85	-12.98	-12.33	-13.35	-16.63	-18.99	-14.74	-14.07	-16.19	-19.08	-17.83	-14.84	-14.07	-13.63	-12.35	-12.28	-14.16	-16.72	-18.49	-18.16	-15.24	-16.33	-17.70	-16.86	-14.85
θ (165°)	-16.97	-13.47	-11.66	-11.15	-11.16	-11.51	-12.55	-16.15	-20.95	-16.99	-14.62	-14.69	-15.99	-14.54	-11.23	-9.29	-9.56	-12.14	-16.95	-25.96	-17.88	-14.59	-15.54	-17.61	-16.97
θ (180°)	-14.02	-14.01	-13.99	-14.03	-14.87	-16.51	-18.19	-19.12	-19.01	-17.21	-15.37	-14.12	-13.25	-12.75	-12.46	-12.98	-13.77	-13.46	-14.07	-17.09	-19.60	-18.84	-16.54	-14.57	-14.02

Ant.	No.3																								
Freq. (MHz)	2500																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-20.89	-14.98	-9.03	-5.80	-4.05	-3.13	-2.41	-2.42	-3.44	-5.20	-7.70	-12.34	-23.10	-14.36	-8.84	-6.13	-4.33	-2.82	-2.09	-2.47	-3.31	-4.46	-6.56	-10.91
θ (15°)	-8.54	-11.26	-9.41	-5.62	-3.36	-2.37	-1.88	-2.02	-2.92	-4.48	-6.35	-7.44	-6.65	-5.07	-3.81	-2.98	-2.31	-1.80	-1.46	-1.48	-1.86	-2.40	-3.43	-4.77	-8.54
θ (30°)	-2.96	-4.25	-5.57	-6.81	-7.13	-6.65	-6.44	-6.33	-5.59	-4.55	-3.77	-3.01	-1.82	-0.92	-1.04	-1.03	-0.47	-0.05	0.34	0.61	0.42	-0.03	-0.34	-0.88	-2.96
θ (45°)	-0.52	-0.61	-2.02	-6.68	-11.43	-14.18	-12.41	-9.72	-7.47	-4.56	-1.80	-0.81	0.66	1.21	0.59	1.53	[2.05]	1.81	1.54	1.49	1.61	1.06	0.37	0.82	-0.52
θ (60°)	-2.21	-1.69	-2.69	-6.69	-10.46	-23.61	-18.30	-21.21	-14.16	-8.87	-3.80	-1.18	-1.40	0.65	0.34	1.78	1.81	1.15	0.76	0.26	0.43	0.92	-0.69	-0.83	-2.21
θ (75°)	-4.78	-3.93	-6.37	-9.19	-23.62	-9.09	-8.00	-11.93	-22.40	-8.59	-7.93	-5.67	-6.15	-3.52	-3.27	-1.10	-0.44	0.44	0.84	0.22	-0.82	-1.69	-4.51	-4.22	-4.78
θ (90°)	-7.94	-8.54	-6.22	-5.65	-12.36	-14.32	-13.78	-15.25	-20.90	-9.01	-5.70	-10.58	-9.07	-16.07	-11.68	-14.62	-7.59	-5.84	-5.06	-4.58	-4.87	-7.34	-10.27	-9.78	-7.94
θ (105°)	-10.37	-11.63	-8.02	-16.03	-15.69	-9.81	-9.26	-14.49	-24.50	-12.89	-5.85	-11.03	-7.67	-14.18	-13.75	-19.06	-17.89	-12.05	-11.79	-16.17	-25.05	-16.15	-19.92	-15.15	-10.37
θ (120°)	-8.24	-10.45	-5.03	-9.22	-19.52	-23.68	-17.40	-28.49	-19.32	-13.39	-7.44	-19.52	-11.52	-8.79	-18.72	-12.71	-12.90	-14.49	-14.36	-14.82	-11.91	-9.95	-12.95	-8.73	-8.24
θ (135°)	-11.48	-11.65	-8.55	-11.06	-15.31	-16.27	-15.34	-12.75	-10.08	-8.20	-8.27	-15.03	-14.43	-10.39	-13.20	-16.17	-13.61	-12.56	-12.43	-11.66	-11.16	-13.66	-11.66	-9.12	-11.48
θ (150°)	-10.50	-14.86	-17.72	-16.06	-15.58	-16.63	-20.88	-27.11	-23.35	-18.89	-19.09	-18.55	-14.88	-11.57	-9.52	-9.61	-10.88	-10.83	-10.72	-11.38	-10.33	-8.05	-6.42	-6.77	-10.50
θ (165°)	-14.97	-16.90	-15.27	-12.64	-10.76	-9.39	-8.88	-8.51	-9.03	-11.20	-15.38	-17.65	-16.76	-15.29	-11.32	-7.19	-4.72	-3.13	-2.26	-2.28	-3.38	-5.39	-8.08	-10.56	-14.97
θ (180°)	-26.83	-20.54	-15.87	-13.57	-12.59	-12.59	-12.86	-12.49	-12.60	-14.00	-16.63	-20.15	-23.87	-21.77	-16.74	-13.70	-12.47	-12.54	-12.68	-11.79	-11.33	-12.34	-15.25	-21.29	-26.83
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-2.20	-2.35	-3.13	-4.55	-7.05	-11.25	-16.62	-11.92	-7.67	-5.15	-3.38	-2.38	-2.25	-2.77	-3.70	-5.07	-7.39	-12.40	-33.29	-14.30	-8.58	-5.62	-3.79	-2.73
θ (15°)	-2.45	-1.91	-1.94	-3.15	-6.63	-14.22	-24.41	-10.53	-6.14	-3.90	-2.75	-2.61	-3.18	-4.32	-5.95	-7.86	-10.44	-14.68	-17.74	-12.20	-8.19	-5.68	-4.09	-3.34	-2.45
θ (30°)	-3.07	-1.81	-0.52	-1.20	-4.60	-11.67	-44.05	-13.64	-7.32	-3.96	-2.98	-3.74	-4.56	-5.66	-7.42	-8.47	-9.59	-12.67	-19.92	-24.45	-15.42	-11.24	-7.85	-5.25	-3.07
θ (45°)	-4.86	-4.28	-1.85	-3.58	-8.42	-16.58	-21.97	-12.34	-7.69	-3.73	-3.33	-6.53	-7.56	-9.47	-9.55	-10.82	-16.77	-30.16	-25.66	-26.63	-19.29	-13.14	-9.00	-6.03	-4.86
θ (60°)	-4.16	-5.09	-1.81	-3.42	-10.02	-15.18	-28.89	-13.71	-9.62	-3.50	-1.67	-6.31	-4.89	-6.29	-7.38	-16.17	-16.81	-12.96	-14.83	-16.10	-17.60	-32.20	-14.25	-9.82	-4.16
θ (75°)	-1.68	-2.79	-0.62	-6.54	-9.64	-16.20	-15.42	-7.95	-9.58	-4.39	-2.22	-4.22	-3.08	-3.90	-6.04	-7.87	-5.59	-8.40	-12.84	-9.38	-7.20	-10.95	-8.86	-7.98	-1.68
θ (90°)	-0.50	-0.29	[-0.11]	-3.94	-7.92	-8.17	-9.80	-3.08	-3.81	-12.44	-3.22	-4.98	-2.52	-5.01	-5.34	-4.11	-3.06	-5.94	-12.56	-11.38	-5.58	-5.65	-8.01	-4.13	-0.50
θ (105°)	-3.64	-2.61	-3.18	-6.39	-14.62	-12.24	-10.09	-5.46	-8.15	-10.03	-7.07	-5.77	-8.71	-6.47	-6.31	-5.61	-5.73	-8.44	-12.13	-14.40	-9.92	-7.89	-7.89	-5.32	-3.64
θ (120°)	-10.78	-7.71	-8.86	-10.52	-13.72	-16.75	-17.75	-19.11	-28.56	-12.91	-14.63	-10.91	-10.82	-13.31	-11.89	-10.55	-10.44	-13.48	-18.16	-24.24	-23.91	-14.21	-13.09	-8.63	-10.78
θ (135°)	-10.34	-7.84	-7.36	-10.28	-14.60	-16.27	-15.99	-16.28	-20.15	-17.77	-13.66	-13.64	-11.55	-8.66	-10.24	-12.73	-14.99	-17.13	-20.03	-22.49	-27.53	-18.84	-11.23	-9.28	-10.34
θ (150°)	-6.72	-6.54	-7.46	-9.26	-11.55	-13.20	-14.10	-15.33	-14.62	-10.45	-7.35	-6.32	-6.55	-7.10	-8.33	-11.02	-14.84	-19.81	-28.84	-24.43	-18.03	-14.50	-11.31	-8.42	-6.72
θ (165°)	-13.06	-10.32	-8.64	-8.05	-8.55	-10.07	-13.49	-21.80	-18.35	-12.12	-10.17	-10.45	-10.90	-9.18	-7.00	-5.89	-6.60	-9.16	-14.52	-23.32	-15.36	-11.77	-11.88	-13.05	-13.06
θ (180°)	-9.82	-10.06	-11.11	-13.14	-15.89	-19.78	-22.60	-19.19	-15.16	-12.61	-11.33	-10.67	-10.46	-10.48	-10.93	-11.71	-13.80	-17.93	-21.21	-21.38	-18.90	-14.36	-11.29	-10.04	-9.82

Ant.	No.4																								
Freq. (MHz)	2400																								
Polarity	Theta																								
dB	ϕ																								
	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
θ (0°)	-16.34	-23.92	-17.08	-10.45	-6.95	-5.27	-4.47	-4.17	-4.28	-5.16	-6.83	-9.55	-14.30	-19.56	-15.24	-10.25	-7.54	-5.49	-4.01	-3.56	-4.16	-5.39	-7.12	-9.86	-16.34
θ (15°)	-11.04	-18.55	-17.01	-10.84	-8.02	-6.50	-5.82	-6.02	-6.85	-8.82	-10.57	-13.85	-16.71	-11.36	-7.14	-4.69	-2.90	-1.52	-0.82	-0.99	-1.72	-2.72	-4.06	-5.64	-11.04
θ (30°)	-6.15	-10.73	-16.15	-11.32	-8.03	-6.20	-5.27	-5.41	-6.96	-9.72	-12.40	-12.80	-9.60	-6.01	-4.13	-2.92	-1.29	0.10	0.71	0.61	-0.06	-1.00	-1.70	-2.36	-6.15
θ (45°)	-2.67	-8.94	-14.66	-12.96	-9.26	-6.67	-5.21	-5.35	-6.33	-8.65	-10.91	-9.64	-6.24	-4.11	-2.57	-0.73	0.39	0.90	1.11	1.17	1.22	0.67	-0.81	-1.48	-2.67
θ (60°)	-1.98	-4.76	-10.74	-11.75	-10.87	-8.47	-7.51	-8.72	-9.53	-9.36	-10.12	-6.98	-3.81	-3.63	-2.36	-0.89	-0.21	1.40	2.51	2.37	1.38	0.83	0.13	-1.60	-1.98
θ (75°)	-0.83	-5.24	-7.83	-8.80	-7.07	-4.63	-4.40	-5.99	-8.88	-8.50	-7.23	-4.20	-2.37	-3.67	-2.68	-3.41	-0.92	1.95	[3.01]	2.87	1.29	0.20	0.19	-1.25	-0.83
θ (90°)	-1.80	-2.52	-4.81	-5.13	-5.07	-3.61	-3.51	-5.12	-6.73	-5.31	-5.25	-4.51	-2.05	-3.77	-2.85	-2.54	-3.41	-1.56	-0.52	-0.52	-1.52	-2.48	-1.90	-3.40	-1.80
θ (105°)	-2.07	-2.64	-5.32	-6.26	-9.09	-9.29	-9.01	-11.14	-12.73	-8.62	-5.47	-3.05	-3.47	-4.96	-2.88	-2.48	-1.78	-0.45	-0.17	-0.89	-2.05	-2.44	-2.86	-4.24	-2.07
θ (120°)	-0.43	0.62	-2.17	-4.37	-8.54	-13.24	-10.41	-13.24	-16.51	-9.46	-7.34	-2.99	-1.91	-5.77	-5.91	-4.78	-4.60	-3.21	-2.17	-2.28	-3.20	-3.28	-2.71	-4.14	-0.43
θ (135°)	-1.29	-0.55	-3.96	-7.18	-8.80	-11.80	-12.59	-10.59	-7.98	-6.43	-3.69	-0.88	-1.43	-5.08	-6.28	-4.26	-3.65	-3.66	-3.74	-4.32	-4.76	-4.97	-6.10	-6.17	-1.29
θ (150°)	-3.04	-2.72	-4.91	-10.83	-15.60	-12.51	-13.11	-16.42	-14.53	-9.45	-5.15	-2.74	-2.61	-4.18	-6.18	-6.46	-5.23	-4.32	-4.04	-4.37	-5.61	-7.45	-8.02	-6.17	-3.04
θ (165°)	-7.60	-6.74	-6.54	-6.71	-6.47	-6.29	-6.74	-7.11	-6.66	-5.90	-5.61	-6.01	-6.81	-6.97	-6.11	-4.85	-3.80	-3.40	-3.50	-3.91	-4.85	-6.40	-8.06	-8.60	-7.60
θ (180°)	-21.55	-22.99	-18.86	-15.45	-13.40	-12.24	-11.85	-11.54	-11.78	-12.76	-14.09	-16.29	-20.09	-21.16	-17.71	-15.12	-13.07	-11.26	-10.02	-10.06	-10.95	-11.77	-12.88	-14.96	-21.55
Polarity	Phi																								
dB	ϕ																								
	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
θ (0°)	-4.54	-4.48	-4.97	-6.11	-8.36	-12.44	-20.63	-25.77	-13.82	-8.71	-5.73	-3.97	-3.84	-3.71	-4.10	-4.84	-6.10	-8.17	-11.61	-16.87	-16.30	-11.44	-7.97	-5.93	-4.54
θ (15°)	-3.71	-4.30	-5.38	-7.39	-10.81	-16.19	-34.16	-18.48	-13.20	-10.24	-6.68	-4.40	-3.23	-2.91	-3.52	-5.01	-7.60	-11.68	-17.70	-14.99	-9.86	-7.14	-5.19	-4.27	-3.71
θ (30°)	-1.34	-1.87	-3.53	-5.87	-9.26	-14.98	-40.93	-15.60	-10.23	-8.42	-7.55	-5.52	-3.35	-2.46	-2.93	-4.27	-6.26	-9.38	-16.43	-23.41	-11.24	-7.03	-3.95	-1.81	-1.34
θ (45°)	-1.52	-2.47	-3.94	-5.53	-8.14	-13.02	-20.19	-12.85	-8.12	-6.94	-5.18	-3.43	-1.76	-1.61	-3.13	-4.95	-7.86	-12.82	-22.34	-19.29	-9.91	-5.31	-2.92	-1.66	-1.52
θ (60°)	[-0.37]	-2.16	-4.01	-3.17	-4.09	-6.98	-14.48	-12.81	-7.15	-5.54	-6.01	-3.95	-1.91	-1.70	-2.56	-3.61	-6.05	-8.75	-12.81	-17.51	-12.60	-5.64	-2.39	-0.93	-0.37
θ (75°)	-0.58	-1.91	-2.57	-1.93	-3.91	-7.54	-27.89	-12.13	-7.26	-5.24	-8.03	-5.69	-3.12	-4.32	-4.89	-4.58	-4.91	-6.59	-10.05	-10.92	-8.48	-5.80	-3.61	-2.38	-0.58
θ (90°)	-5.43	-6.49	-7.63	-5.67	-9.88	-12.49	-15.73	-19.58	-14.41	-6.58	-7.19	-9.20	-5.72	-6.43	-7.25	-8.20	-6.99	-7.17	-10.54	-20.36	-16.43	-11.88	-9.31	-7.15	-5.43
θ (105°)	-4.30	-7.69	-6.30	-10.35	-13.78	-19.55	-15.73	-10.30	-15.84	-13.77	-11.46	-9.66	-6.13	-6.36	-10.05	-13.01	-9.66	-11.42	-23.41	-13.67	-10.46	-8.40	-5.01	-4.99	-4.30
θ (120°)	-4.13	-5.91	-7.56	-6.39	-13.35	-16.49	-20.19	-13.43	-11.54	-14.07	-22.29	-11.87	-7.60	-9.50	-7.94	-8.97	-12.28	-16.37	-27.11	-10.65	-6.93	-6.71	-4.88	-3.94	-4.13
θ (135°)	-6.87	-8.41	-14.46	-15.07	-19.98	-24.61	-22.24	-21.47	-18.99	-12.64	-13.65	-23.27	-11.03	-8.44	-7.20	-8.42	-12.43	-18.35	-20.51	-15.53	-11.01	-7.28	-5.55	-6.45	-6.87
θ (150°)	-8.06	-10.04	-17.15	-24.62	-22.81	-22.43	-15.44	-12.39	-13.36	-19.10	-18.54	-10.43	-7.45	-7.62	-8.66	-9.17	-10.64	-14.24	-19.08	-17.94	-12.28	-9.20	-8.11	-7.54	-8.06
θ (165°)	-11.99	-13.37	-14.59	-16.63	-19.93	-20.99	-17.02	-14.33	-15.27	-22.73	-19.73	-12.76	-10.48	-10.20	-10.44	-10.79	-12.38	-16.93	-18.23	-13.84	-11.16	-9.65	-9.22	-9.90	-11.99
θ (180°)	-11.11	-11.07	-11.55	-12.63	-15.21	-20.83	-26.78	-23.96	-21.42	-17.06	-13.25	-10.95	-10.03	-9.98	-10.51	-11.60	-12.59	-13.27	-15.26	-20.78	-20.08	-15.53	-13.14	-11.51	-11.11

Ant.	No.4																								
Freq (MHz)	2450																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-16.38	-30.97	-11.97	-6.96	-4.23	-2.48	-1.35	-0.91	-1.44	-2.63	-4.48	-7.75	-16.32	-24.67	-12.31	-7.39	-4.32	-2.97	-2.56	-2.19	-2.22	-3.12	-4.93	-8.13
θ (15°)	-13.84	-23.46	-16.04	-12.13	-9.42	-8.01	-7.39	-6.48	-5.96	-7.24	-9.19	-13.55	-29.24	-16.85	-10.09	-6.10	-3.82	-2.89	-2.40	-2.21	-2.63	-3.73	-5.59	-7.73	-13.84
θ (30°)	-14.08	-14.84	-10.33	-8.84	-7.59	-6.69	-6.30	-6.96	-8.23	-7.70	-7.58	-13.63	-27.07	-19.17	-12.82	-6.58	-3.55	-2.18	-1.34	-0.93	-1.29	-3.01	-6.39	-9.09	-14.08
θ (45°)	-8.36	-13.68	-9.91	-7.34	-5.64	-5.50	-5.37	-5.49	-5.91	-7.44	-9.14	-14.40	-18.68	-14.37	-6.30	-3.04	-2.24	-1.14	-0.42	-0.78	-1.47	-1.69	-4.20	-7.04	-8.36
θ (60°)	-6.32	-11.97	-13.99	-11.98	-15.93	-14.08	-11.09	-11.13	-10.98	-9.04	-10.12	-11.39	-15.55	-14.97	-5.08	-2.66	-1.14	2.03	3.48	3.09	0.91	-0.71	-1.28	-6.83	-6.32
θ (75°)	-6.00	-11.34	-23.79	-20.95	-9.20	-4.41	-3.01	-5.52	-12.49	-16.70	-17.16	-15.88	-13.66	-13.11	-4.02	-2.55	1.35	4.04	[4.88]	4.51	2.50	0.05	-1.46	-6.37	-6.00
θ (90°)	-6.39	-5.58	-12.14	-9.43	-5.94	-3.42	-2.47	-3.56	-5.74	-8.57	-13.04	-9.67	-9.13	-12.85	-6.08	-4.69	-1.53	1.36	2.25	2.20	1.26	-0.78	-1.84	-5.21	-6.39
θ (105°)	-8.32	-4.33	-10.41	-8.25	-9.81	-8.81	-8.16	-11.99	-8.42	-6.45	-6.64	-4.49	-9.44	-8.67	-5.53	-4.83	-1.16	0.91	1.15	0.38	-1.68	-5.12	-5.01	-6.55	-8.32
θ (120°)	-7.15	-2.63	-6.39	-11.25	-14.73	-17.22	-10.39	-12.80	-15.56	-12.60	-8.33	-4.03	-8.53	-16.72	-7.47	-6.80	-5.66	-2.29	-0.90	-1.40	-3.64	-5.65	-4.64	-7.99	-7.15
θ (135°)	-9.79	-3.73	-6.74	-15.28	-14.55	-15.86	-14.41	-16.02	-22.11	-23.27	-8.53	-5.74	-11.24	-20.33	-14.50	-7.39	-5.58	-5.06	-4.82	-5.35	-6.34	-8.42	-12.62	-15.11	-9.79
θ (150°)	-15.48	-10.92	-8.49	-12.22	-37.29	-16.37	-15.05	-19.30	-26.20	-13.45	-7.30	-5.54	-7.73	-11.07	-12.72	-16.89	-12.25	-8.28	-6.71	-7.07	-10.34	-21.41	-13.05	-10.61	-15.48
θ (165°)	-16.19	-13.37	-11.17	-9.54	-7.83	-6.54	-6.55	-7.56	-9.03	-10.95	-12.78	-15.28	-17.78	-14.34	-9.84	-6.96	-5.32	-4.33	-3.97	-4.34	-5.48	-7.82	-11.55	-14.94	-16.19
θ (180°)	-18.51	-19.56	-18.53	-16.49	-14.64	-13.46	-12.50	-11.80	-12.21	-13.08	-13.90	-15.54	-18.27	-19.92	-18.66	-16.15	-13.91	-12.51	-11.72	-11.35	-11.62	-12.85	-14.53	-18.51	
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-1.63	-1.31	-1.72	-2.93	-5.23	-8.90	-15.69	-20.13	-9.95	-5.62	-3.36	-2.11	-2.07	-2.16	-2.87	-4.38	-6.87	-10.89	-19.29	-21.34	-11.06	-6.95	-4.64	-3.20
θ (15°)	-1.46	-2.14	-3.79	-5.98	-8.69	-12.22	-16.54	-28.96	-16.34	-8.62	-5.36	-3.42	-2.40	-2.53	-3.60	-5.42	-8.38	-13.50	-33.13	-14.84	-8.50	-5.52	-3.70	-2.70	-1.46
θ (30°)	-1.64	-2.76	-6.84	-10.98	-13.74	-19.71	-21.66	-15.13	-13.91	-16.68	-11.25	-4.64	-2.04	-2.02	-3.32	-4.94	-7.57	-12.79	-27.15	-16.34	-8.77	-5.26	-4.01	-3.24	-1.64
θ (45°)	-0.93	-3.55	-7.70	-6.95	-10.09	-16.37	-18.99	-14.05	-10.08	-7.73	-10.00	-4.81	-1.65	-2.47	-3.33	-4.57	-7.48	-12.61	-30.32	-13.65	-8.94	-4.58	-2.44	-2.03	-0.93
θ (60°)	0.35	-1.90	-5.27	-4.61	-5.88	-8.21	-16.63	-13.92	-8.29	-4.97	-5.74	-4.55	-0.18	-0.85	-1.44	-3.01	-4.81	-7.52	-19.10	-11.99	-6.11	-4.07	-2.04	-1.56	0.35
θ (75°)	[1.55]	-1.71	-1.39	-2.47	-2.87	-6.77	-17.02	-7.41	-6.12	-5.54	-5.84	-3.03	0.25	-0.78	-0.78	-1.36	-1.35	-4.95	-20.36	-6.49	-1.80	-1.27	-0.50	-0.64	1.55
θ (90°)	0.18	-1.64	-3.54	-4.62	-4.40	-5.41	-17.28	-8.28	-3.04	-5.05	-4.17	-6.05	-1.04	-1.25	-1.23	-1.41	0.08	-1.77	-9.61	-12.29	-3.41	-2.15	-1.21	-1.25	0.18
θ (105°)	-1.79	-4.33	-3.06	-6.23	-4.93	-8.32	-17.55	-5.57	-5.50	-6.85	-4.84	-4.80	-1.76	-2.72	-3.15	-2.15	-0.83	-3.52	-12.54	-7.53	-3.84	-4.48	-1.99	-2.63	-1.79
θ (120°)	-1.51	-2.53	-2.73	-2.79	-5.86	-7.63	-15.29	-8.19	-6.04	-6.97	-6.55	-8.01	-4.21	-4.81	-2.96	-4.39	-4.44	-5.91	-13.27	-10.56	-4.93	-4.09	-2.20	-2.63	-1.51
θ (135°)	-3.66	-3.67	-3.97	-4.58	-8.92	-14.77	-19.01	-13.31	-8.77	-7.06	-9.98	-10.44	-6.60	-6.47	-5.23	-6.69	-9.82	-14.12	-45.69	-12.99	-7.34	-4.44	-3.53	-4.52	-3.66
θ (150°)	-6.58	-6.51	-8.21	-9.75	-10.54	-13.79	-21.05	-38.23	-18.40	-12.57	-9.99	-8.07	-6.92	-7.45	-8.65	-9.32	-10.45	-14.23	-29.61	-17.37	-10.62	-6.76	-5.72	-6.73	-6.58
θ (165°)	-13.06	-10.01	-8.29	-8.22	-9.39	-12.82	-21.44	-27.85	-18.16	-14.41	-12.33	-12.22	-12.52	-10.63	-8.64	-8.11	-8.82	-10.98	-17.33	-18.67	-11.97	-10.68	-11.65	-13.15	-13.06
θ (180°)	-10.84	-11.09	-11.46	-12.56	-14.60	-18.06	-22.19	-22.93	-21.09	-18.09	-13.90	-11.28	-10.41	-10.72	-11.21	-11.53	-12.44	-14.08	-15.18	-17.60	-20.12	-15.52	-11.97	-10.40	-10.84

Ant.	No.4																								
Freq. (MHz)	2500																								
Polarity	Theta																								
dB	Φ																								
	Φ (0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-13.66	-29.38	-10.18	-5.03	-2.55	-1.03	0.03	0.14	-0.37	-1.36	-3.12	-6.23	-12.22	-38.49	-11.62	-6.01	-3.08	-1.48	-0.72	-0.44	-0.39	-1.03	-2.77	-5.74	-13.66
θ (15°)	-11.03	-17.31	-12.72	-9.06	-7.96	-7.33	-6.00	-4.75	-3.87	-4.38	-6.27	-10.07	-18.66	-20.33	-9.53	-5.10	-2.88	-1.58	-0.84	-0.83	-1.44	-2.67	-4.46	-6.23	-11.03
θ (30°)	-10.49	-9.23	-8.28	-8.14	-6.67	-5.14	-5.19	-6.39	-7.52	-7.69	-7.69	-10.89	-19.08	-20.67	-8.32	-3.67	-2.16	-1.55	-1.20	-0.95	-0.85	-1.39	-3.78	-7.98	-10.49
θ (45°)	-9.77	-7.07	-6.85	-5.17	-4.00	-4.77	-5.10	-4.09	-4.44	-7.49	-8.46	-11.29	-24.33	-13.38	-5.46	-4.11	-3.08	-0.71	0.19	-0.73	-2.66	-2.77	-4.01	-9.14	-9.77
θ (60°)	-7.27	-8.70	-8.98	-6.49	-10.98	-12.34	-7.92	-9.21	-9.16	-6.04	-7.55	-6.59	-12.77	-11.51	-4.58	-4.85	-1.01	2.26	3.33	3.21	1.19	-2.94	-1.81	-5.77	-7.27
θ (75°)	-8.34	-8.76	-10.12	-17.57	-7.75	-1.78	-0.36	-2.87	-13.52	-9.93	-8.17	-8.00	-13.44	-7.75	-4.40	-3.38	1.30	3.19	3.67	[3.74]	2.25	-1.34	-1.79	-5.36	-8.34
θ (90°)	-10.31	-8.12	-9.33	-17.39	-5.16	-1.82	-0.90	-1.53	-4.46	-13.19	-10.21	-9.04	-13.96	-9.98	-6.78	-4.88	-0.88	0.63	0.98	1.49	1.55	-0.35	-2.59	-4.36	-10.31
θ (105°)	-11.63	-2.29	-6.62	-8.03	-7.31	-5.93	-5.47	-7.46	-6.59	-6.83	-4.80	-3.25	-12.02	-5.97	-7.93	-5.68	-2.30	-1.57	-1.46	-1.28	-1.85	-5.17	-6.59	-3.79	-11.63
θ (120°)	-11.19	-1.20	-2.15	-8.91	-12.46	-19.61	-11.17	-15.62	-11.92	-7.39	-3.35	-0.47	-8.89	-5.58	-5.85	-12.98	-9.31	-4.99	-3.31	-3.17	-5.51	-10.34	-5.84	-3.05	-11.19
θ (135°)	-14.13	-1.77	-2.92	-10.50	-14.51	-27.30	-18.74	-25.29	-16.81	-9.25	-2.49	-2.19	-14.34	-7.70	-7.45	-8.77	-7.92	-6.85	-6.30	-7.23	-9.25	-9.06	-5.31	-4.20	-14.13
θ (150°)	-19.15	-10.10	-5.30	-7.67	-17.04	-18.22	-15.92	-18.25	-20.29	-9.46	-4.31	-3.93	-9.35	-27.05	-14.00	-18.48	-12.29	-9.16	-8.59	-9.16	-12.67	-17.92	-8.55	-6.72	-19.15
θ (165°)	-32.32	-18.13	-13.06	-11.02	-10.27	-9.89	-9.65	-10.30	-12.98	-14.90	-14.06	-15.03	-19.47	-30.51	-18.66	-14.01	-11.05	-8.46	-7.61	-7.94	-8.78	-10.97	-15.00	-18.86	-32.32
θ (180°)	-21.84	-25.45	-27.35	-24.42	-22.19	-19.30	-17.14	-16.94	-17.35	-17.56	-17.21	-18.11	-21.36	-25.70	-25.80	-23.13	-19.29	-17.73	-16.71	-15.62	-15.58	-15.06	-15.02	-16.41	-21.84
Polarity	Phi																								
dB	Φ																								
	Φ (0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-0.21	0.02	-0.46	-1.77	-3.93	-7.46	-16.38	-16.90	-8.48	-4.93	-2.61	-1.15	-0.28	-0.25	-0.66	-1.65	-3.51	-6.85	-13.24	-26.67	-10.79	-5.55	-2.79	-1.26	-0.21
θ (15°)	-0.47	-0.51	-1.91	-4.49	-7.71	-11.23	-17.89	-20.88	-11.11	-5.84	-2.67	-1.06	-0.80	-1.16	-1.72	-2.80	-5.27	-10.28	-24.49	-15.78	-8.90	-4.86	-2.68	-1.79	-0.47
θ (30°)	-0.89	-1.17	-4.87	-13.42	-17.43	-19.89	-17.25	-12.93	-13.89	-32.77	-8.02	-2.17	-1.24	-1.90	-2.11	-3.32	-6.49	-11.68	-22.70	-14.81	-7.98	-4.14	-2.63	-2.53	-0.89
θ (45°)	-0.36	-2.46	-12.92	-7.65	-12.08	-24.21	-24.04	-12.44	-7.47	-8.11	-13.97	-2.85	-2.05	-2.56	-2.60	-5.43	-7.42	-10.49	-22.59	-11.76	-7.55	-5.43	-2.44	-2.43	-0.36
θ (60°)	-0.48	-1.69	-8.17	-5.24	-12.35	-12.20	-15.04	-16.57	-13.09	-5.65	-7.54	-4.97	-0.76	-2.19	-2.13	-5.19	-3.52	-5.69	-17.24	-10.42	-4.69	-4.93	-3.35	-2.78	-0.48
θ (75°)	0.64	-3.87	-1.75	-6.95	-5.12	-6.56	-13.42	-5.79	-8.05	-8.81	-7.01	-3.40	-0.56	-1.15	-2.56	-1.38	-0.27	-4.65	-23.31	-6.09	-1.06	-2.15	-1.67	-1.42	0.64
θ (90°)	0.20	-1.73	-3.46	-7.42	-3.82	-3.21	-21.73	-3.48	-1.00	-10.33	-4.18	-10.72	-0.64	-2.30	-1.92	-0.62	1.68	-0.92	-8.97	-10.00	-1.02	-0.51	-2.48	-0.35	0.20
θ (105°)	-1.44	-7.29	-2.05	-8.52	-1.97	-5.05	-12.41	-1.64	-1.89	-8.80	-4.51	-6.13	-1.68	-3.00	-2.55	0.06	[1.72]	-1.69	-10.61	-6.36	-1.16	-3.52	-2.31	-1.57	-1.44
θ (120°)	-1.48	-3.54	-2.36	-2.94	-5.77	-5.39	-15.03	-5.71	-3.68	-5.92	-3.84	-11.11	-3.17	-5.06	-2.08	-3.52	-0.98	-2.41	-10.54	-9.87	-3.70	-4.35	-2.84	-2.72	-1.48
θ (135°)	-3.61	-4.28	-3.10	-2.92	-8.10	-14.25	-17.28	-10.35	-7.37	-5.37	-7.54	-9.88	-6.65	-7.23	-4.06	-6.03	-7.45	-10.23	-22.96	-11.76	-7.59	-4.44	-2.91	-5.08	-3.61
θ (150°)	-7.76	-7.44	-7.82	-6.50	-7.18	-11.46	-21.88	-18.30	-9.94	-7.94	-10.11	-11.90	-9.26	-10.51	-10.13	-7.94	-9.25	-14.18	-27.21	-18.07	-10.90	-7.00	-5.45	-6.99	-7.76
θ (165°)	-19.91	-12.26	-8.93	-7.67	-8.36	-11.96	-22.09	-26.03	-17.07	-13.92	-13.75	-17.22	-19.11	-12.62	-9.14	-7.58	-7.57	-9.41	-14.93	-27.09	-12.85	-10.64	-13.09	-18.32	-19.91
θ (180°)	-15.27	-14.48	-15.01	-17.43	-20.79	-22.07	-22.64	-24.75	-25.66	-25.98	-22.32	-17.20	-15.00	-13.89	-14.15	-15.02	-15.53	-16.79	-19.55	-25.02	-34.42	-22.22	-17.32	-15.33	-15.27

Ant.	No.1																								
Freq. (MHz)	5150																								
Polarity	Theta																								
dB	φ																								
	(0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-5.58	-5.18	-5.31	-5.32	-6.14	-6.84	-7.56	-7.79	-7.68	-6.22	-5.34	-5.31	-5.69	-6.27	-6.88	-6.96	-7.60	-8.25	-8.29	-7.87	-7.89	-7.38	-6.63	-6.06	-5.58
θ (15°)	-7.16	-5.67	-5.18	-6.53	-8.16	-9.35	-10.33	-10.55	-9.34	-8.97	-7.51	-5.04	-4.40	-5.82	-8.34	-12.39	-16.05	-17.75	-14.60	-9.39	-7.03	-6.23	-5.87	-5.97	-7.16
θ (30°)	-5.28	-6.19	-9.90	-5.88	-6.30	-9.30	-13.36	-14.66	-12.59	-9.89	-7.13	-6.38	-4.21	-4.55	-7.19	-10.51	-11.11	-12.03	-14.25	-9.51	-7.01	-5.85	-6.63	-6.35	-5.28
θ (45°)	-7.71	-6.30	-4.39	-4.88	-8.81	-12.65	-12.61	-14.31	-10.72	-9.90	-7.33	-6.41	-4.55	-5.40	-5.20	-3.73	-7.19	-11.62	-11.52	-8.55	-5.96	-6.49	-7.09	-6.77	-7.71
θ (60°)	-5.71	-4.96	-13.42	-7.99	-8.34	-8.29	-13.09	-14.00	-7.44	-3.33	-2.66	-0.62	-1.28	-2.49	-3.85	-3.46	-5.37	-9.52	-11.76	-21.79	-10.97	-14.34	-8.21	-4.16	-5.71
θ (75°)	-24.67	-15.48	-10.23	-10.83	-9.49	-18.94	-14.91	-12.88	-7.11	-4.70	-2.52	0.47	1.79	0.85	0.87	-2.27	-4.46	-3.30	-4.27	-5.44	-13.98	-16.38	-12.40	-7.93	-24.67
θ (90°)	-17.32	-13.56	-17.91	-20.40	-24.65	-11.68	-14.94	-10.62	-7.25	-1.79	-0.50	0.72	0.85	-1.56	-1.21	-0.04	-0.95	1.01	0.65	-0.59	-1.10	-4.93	-9.07	-17.03	-17.32
θ (105°)	-6.64	-5.84	-7.52	-13.07	-14.81	-12.97	-15.83	-7.77	-7.26	-3.12	-0.63	1.25	1.25	-0.03	0.09	-0.88	-2.07	-0.91	-0.57	-0.18	-1.70	-6.52	-7.16	-9.74	-6.64
θ (120°)	-10.15	-4.27	-3.84	-5.45	-6.01	-5.90	-8.79	-14.19	-8.09	-7.61	-4.30	-2.56	-1.79	-3.17	-2.61	-0.59	0.28	1.54	2.13	2.24	2.41	1.25	-0.98	-2.32	-10.15
θ (135°)	-0.07	0.53	1.01	1.07	-0.21	-1.93	-4.48	-6.85	-5.45	-5.29	-3.33	-4.55	-5.62	-12.13	-6.51	-7.11	-4.03	-1.06	0.55	0.71	-0.77	-2.15	-1.02	-9.77	-0.07
θ (150°)	3.28	3.83	[4.35]	2.60	0.43	-0.62	-3.75	-8.09	-15.93	-9.80	-6.24	-7.58	-5.97	-7.21	-15.48	-11.45	-10.30	-11.19	-8.11	-5.77	-3.78	-3.75	-2.28	-0.60	3.28
θ (165°)	1.87	1.09	-0.14	-0.95	-2.35	-7.10	-15.50	-34.84	-24.47	-28.77	-17.94	-18.13	-29.50	-17.15	-12.31	-13.69	-14.52	-13.44	-11.10	-8.40	-6.52	-3.18	0.01	1.29	1.87
θ (180°)	-0.10	-0.42	-2.03	-4.62	-7.66	-10.89	-15.15	-15.37	-9.33	-5.46	-3.26	-1.85	-1.63	-2.11	-3.25	-4.57	-7.37	-11.82	-19.59	-14.80	-9.53	-6.08	-3.73	-1.54	-0.10
Polarity	Phi																								
dB	φ																								
	(0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-7.41	-8.05	-7.67	-6.97	-6.47	-6.03	-5.50	-4.98	-4.94	-5.27	-5.93	-6.63	-7.08	-7.29	-6.83	-6.44	-6.58	-6.24	-5.70	-5.99	-6.24	-5.73	-6.51	-6.70	-7.41
θ (15°)	-6.00	-7.56	-8.77	-9.22	-8.37	-7.84	-5.94	-4.90	-3.86	-3.87	-5.62	-6.59	-6.66	-7.05	-7.22	-6.03	-5.21	-4.32	-4.83	-5.42	-9.20	-10.87	-9.04	-6.68	-6.00
θ (30°)	-6.13	-7.33	-8.62	-11.49	-7.38	-4.90	-4.85	-5.36	-5.79	-4.66	-5.91	-4.72	-5.04	-5.39	-5.75	-3.89	-2.33	-2.40	-2.90	-4.03	-6.94	-10.90	-11.81	-7.94	-6.13
θ (45°)	-7.10	-7.71	-11.49	-9.00	-10.08	-6.24	-4.46	-5.23	-5.58	-5.32	-6.44	-6.57	-5.71	-8.07	-4.89	-3.53	-5.86	-4.13	-3.77	-4.16	-7.92	-9.32	-8.34	-5.63	-7.10
θ (60°)	-5.96	-10.41	-11.42	-14.79	-12.19	-4.26	-2.27	-3.51	-2.31	-8.12	-4.10	-6.68	-5.76	-8.08	-7.98	-4.42	-4.98	-3.07	-3.68	-6.04	-7.68	-11.42	-7.14	-8.77	-5.96
θ (75°)	-5.79	-8.13	-7.53	-13.72	-13.92	-13.17	-9.50	-7.94	-3.97	-4.75	-5.95	-8.05	-4.91	-6.64	-6.46	-2.83	-3.94	-2.21	-2.03	-7.24	-6.62	-4.10	-9.99	-9.41	-5.79
θ (90°)	-8.47	-10.75	-6.41	-12.64	-12.53	-2.03	-0.73	-4.96	-4.56	-4.60	-4.29	-5.80	-8.99	-11.70	-12.76	-11.39	-9.21	-14.19	-9.05	-7.49	-4.41	-2.33	-5.56	-4.94	-8.47
θ (105°)	-8.05	-8.44	-9.02	-5.73	-7.19	[1.75]	-3.31	-4.32	-4.64	-14.85	-9.43	-7.48	-10.02	-16.40	-25.67	-10.19	-5.56	-3.58	-2.13	-2.59	-4.27	-9.25	-7.23	-10.44	-8.05
θ (120°)	-9.64	-10.94	-8.73	-6.77	-4.59	-6.09	-8.14	-4.61	-5.09	-4.12	-11.79	-13.71	-20.24	-14.21	-12.19	-9.01	-7.25	-8.20	-8.82	-11.03	-19.68	-6.30	-7.79	-12.80	-9.64
θ (135°)	-14.04	-16.68	-9.39	-4.07	-1.30	-1.77	-2.40	-1.63	-0.04	-1.03	-2.53	-5.78	-22.24	-12.88	-14.29	-7.05	-5.37	-5.42	-7.73	-11.31	-18.79	-18.38	-14.36	-13.23	-14.04
θ (150°)	-10.81	-11.22	-5.25	-0.73	-1.03	-2.47	-4.68	-5.84	-5.86	-4.91	-5.23	-5.05	-11.10	-13.93	-6.65	-6.47	-6.03	-4.51	-3.90	-3.20	-3.17	-3.19	-6.38	-5.67	-10.81
θ (165°)	-16.13	-17.85	-7.48	-3.30	-1.51	-1.59	-3.92	-9.23	-20.21	-19.92	-20.33	-13.62	-8.85	-7.17	-8.99	-7.41	-5.48	-4.37	-3.86	-3.59	-3.56	-3.18	-5.07	-9.49	-16.13
θ (180°)	-28.46	-14.39	-10.55	-8.53	-5.48	-2.82	-1.11	-0.84	-1.28	-3.06	-6.19	-11.99	-26.53	-15.36	-9.13	-5.30	-4.23	-2.86	-3.27	-3.13	-4.22	-5.27	-7.15	-12.57	-28.46

Ant.	No.1																								
Freq. (MHz)	5250																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	-3.51	-2.88	-2.51	-2.66	-3.46	-4.53	-6.42	-8.32	-9.82	-10.59	-9.36	-6.99	-5.37	-4.11	-3.39	-3.60	-4.05	-4.71	-6.00	-7.79	-10.54	-10.80	-9.73
θ (15°)	-6.37	-4.54	-3.09	-3.02	-3.92	-5.44	-6.82	-9.39	-9.89	-8.18	-6.07	-3.99	-3.04	-3.38	-4.23	-4.33	-5.17	-6.59	-8.35	-9.74	-10.03	-9.27	-8.35	-8.14	-6.37
θ (30°)	-6.08	-4.00	-5.81	-5.23	-3.87	-6.14	-7.19	-9.22	-10.09	-8.83	-6.97	-5.36	-3.40	-3.89	-3.81	-2.83	-3.35	-5.87	-9.33	-11.65	-8.62	-7.21	-8.17	-11.77	-6.08
θ (45°)	-5.29	-6.18	-4.61	-4.30	-4.31	-8.06	-11.65	-16.43	-20.33	-13.97	-10.16	-6.10	-6.12	-3.52	-2.84	-2.53	-6.26	-7.33	-10.79	-10.70	-9.24	-6.79	-7.62	-10.12	-5.29
θ (60°)	-7.83	-5.57	-8.95	-10.35	-8.56	-8.57	-11.83	-13.29	-10.34	-6.55	-5.17	-2.88	-1.37	-5.67	-2.95	-2.42	-3.01	-2.59	-3.57	-6.32	-10.58	-10.90	-11.14	-6.55	-7.83
θ (75°)	-11.69	-13.94	-18.07	-15.91	-10.47	-19.35	-15.68	-17.26	-8.15	-5.85	-2.55	-0.19	0.31	-0.84	0.88	-1.19	-1.83	-1.85	-2.76	-3.96	-6.87	-12.61	-8.34	-10.38	-11.69
θ (90°)	-19.15	-11.01	-12.39	-15.88	-25.87	-12.73	-11.64	-9.57	-7.59	-3.14	-1.52	-0.93	-0.34	-3.54	-1.81	-0.76	0.87	1.80	1.63	0.64	-0.71	-1.70	-6.62	-10.36	-19.15
θ (105°)	-5.25	-8.29	-7.25	-10.13	-14.08	-9.06	-13.26	-9.87	-7.54	-3.69	-2.37	0.30	-0.52	-3.45	-0.81	-1.14	-1.36	-0.26	-0.01	-1.19	-1.09	-5.04	-4.56	-11.74	-5.25
θ (120°)	-8.02	-4.81	-4.80	-5.36	-5.46	-4.93	-6.99	-20.52	-8.71	-9.87	-5.46	-5.19	-3.30	-8.27	-4.89	-3.07	-0.24	0.11	0.50	0.59	1.02	1.49	-0.90	-1.63	-8.02
θ (135°)	-1.36	0.49	0.85	0.32	-0.66	-1.27	-3.89	-6.62	-8.46	-7.61	-4.73	-8.32	-9.70	-27.53	-7.07	-8.12	-4.95	-1.71	0.20	0.24	-0.52	-2.62	-1.04	-6.67	-1.36
θ (150°)	2.65	3.57	[3.70]	2.78	-0.25	-1.67	-4.31	-10.38	-25.70	-10.29	-8.22	-12.25	-7.73	-8.95	-14.61	-14.41	-17.87	-16.59	-9.25	-6.26	-4.51	-4.02	-2.38	-0.52	2.65
θ (165°)	1.86	1.18	-0.14	-1.13	-2.62	-6.05	-13.59	-35.70	-30.81	-18.41	-12.18	-12.03	-13.14	-10.63	-9.30	-11.54	-12.07	-10.17	-8.73	-6.38	-4.61	-2.13	-0.06	1.17	1.86
θ (180°)	0.90	0.38	-1.59	-4.55	-8.16	-13.05	-18.74	-12.40	-7.32	-3.99	-2.05	-1.33	-1.23	-1.83	-3.12	-5.70	-8.69	-15.21	-20.35	-11.73	-7.32	-4.34	-2.06	-0.26	0.90
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	-5.13	-6.08	-7.23	-7.68	-6.68	-4.62	-3.14	-2.29	-2.04	-2.44	-2.95	-3.93	-5.06	-6.59	-8.18	-8.63	-7.48	-6.22	-4.86	-3.61	-2.99	-3.03	-3.00
θ (15°)	-5.51	-6.82	-8.34	-7.40	-5.63	-4.30	-2.97	-2.25	-2.21	-2.77	-3.65	-4.39	-5.10	-6.76	-7.63	-7.49	-6.39	-4.78	-4.46	-4.21	-4.20	-4.94	-4.96	-4.57	-5.51
θ (30°)	-7.13	-8.21	-8.63	-12.42	-11.23	-7.19	-6.42	-6.04	-5.15	-5.13	-3.82	-4.24	-5.06	-7.59	-6.77	-5.00	-3.83	-2.86	-1.92	-1.07	-1.86	-5.51	-7.81	-7.13	-7.13
θ (45°)	-6.97	-6.49	-12.49	-7.30	-11.09	-6.03	-4.35	-5.49	-3.63	-5.30	-8.00	-5.17	-5.37	-5.78	-5.52	-5.60	-5.14	-2.81	-2.35	-3.12	-3.65	-7.20	-6.68	-6.29	-6.97
θ (60°)	-8.16	-7.44	-10.17	-13.41	-10.47	-4.62	-2.50	-3.43	-1.80	-5.54	-3.87	-4.97	-6.89	-8.03	-7.52	-5.53	-3.90	-2.94	-2.30	-3.26	-7.52	-7.61	-4.40	-5.94	-8.16
θ (75°)	-6.69	-8.31	-7.57	-9.87	-14.93	-20.16	-12.29	-4.30	-2.47	-3.45	-5.33	-7.37	-5.56	-7.22	-6.11	-5.22	-3.46	-1.86	-1.02	-2.25	-11.77	-2.50	-4.16	-6.56	-6.69
θ (90°)	-7.10	-11.01	-7.68	-11.38	-12.78	-4.54	-0.57	-3.86	-5.53	-3.54	-3.90	-5.96	-8.77	-9.64	-12.63	-10.76	-13.05	-9.06	-8.46	-4.97	-3.92	-1.26	-3.84	-3.29	-7.10
θ (105°)	-4.88	-6.40	-8.43	-8.36	-15.30	[0.12]	-4.60	-8.07	-4.19	-13.26	-10.37	-5.74	-7.70	-9.26	-17.28	-17.53	-6.79	-4.93	-2.37	-0.87	-3.03	-4.57	-3.06	-4.38	-4.88
θ (120°)	-6.86	-9.34	-7.73	-7.87	-4.48	-7.37	-9.23	-5.01	-4.15	-4.15	-13.89	-8.96	-10.22	-9.95	-7.96	-8.42	-9.21	-7.59	-5.92	-5.75	-7.45	-5.87	-3.95	-7.09	-6.86
θ (135°)	-9.85	-9.61	-7.32	-3.81	-1.74	-1.94	-2.50	-1.24	-0.17	-0.71	-2.26	-6.02	-10.68	-8.26	-9.42	-5.37	-4.44	-5.23	-6.53	-8.51	-12.55	-23.42	-16.99	-32.20	-9.85
θ (150°)	-11.54	-10.12	-3.89	-0.94	-0.43	-2.39	-3.96	-5.80	-6.30	-5.97	-5.14	-4.96	-9.52	-9.50	-4.83	-5.10	-4.51	-3.33	-2.57	-2.43	-2.39	-2.67	-5.07	-6.64	-11.54
θ (165°)	-17.75	-14.39	-7.21	-3.21	-1.33	-1.29	-3.64	-9.24	-20.98	-18.86	-17.47	-12.98	-7.18	-5.73	-5.64	-5.38	-4.13	-3.39	-3.38	-2.99	-3.43	-3.65	-5.21	-7.92	-17.75
θ (180°)	-22.61	-12.25	-8.80	-6.64	-4.27	-2.16	-0.42	-0.49	-0.98	-3.04	-6.63	-13.08	-30.19	-12.51	-6.84	-4.03	-2.49	-2.04	-2.15	-2.82	-3.74	-5.71	-8.00	-12.61	-22.61

Ant.	No.1																								
Freq. (MHz)	5350																								
Polarity	Theta																								
dB	φ (0°)	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-6.23	-4.40	-3.18	-2.55	-1.95	-2.69	-3.32	-5.23	-7.28	-8.95	-9.51	-7.95	-5.99	-4.33	-3.20	-2.07	-1.80	-2.34	-2.90	-4.76	-6.47	-10.53	-11.97	-11.11	-6.23
θ (15°)	-6.28	-4.44	-3.16	-2.28	-2.49	-3.27	-5.23	-6.78	-8.41	-8.65	-6.07	-3.83	-2.79	-2.59	-2.13	-2.22	-2.32	-3.04	-4.56	-5.75	-6.31	-7.63	-8.81	-9.57	-6.28
θ (30°)	-10.19	-6.74	-3.76	-4.19	-3.03	-3.99	-5.74	-7.66	-7.90	-8.40	-5.63	-4.59	-1.86	-1.39	-1.32	-0.83	-1.61	-2.94	-4.82	-7.68	-8.99	-6.46	-5.67	-8.92	-10.19
θ (45°)	-5.91	-4.67	-4.48	-4.80	-4.23	-6.32	-9.15	-13.91	-11.49	-14.25	-8.03	-5.56	-4.11	-2.67	-1.42	-2.48	-2.60	-3.93	-5.80	-7.12	-7.51	-7.93	-8.40	-10.90	-5.91
θ (60°)	-7.10	-7.70	-6.88	-14.73	-11.27	-8.74	-12.78	-18.66	-13.46	-13.83	-6.70	-5.09	-2.93	-5.64	-4.59	-2.20	-1.37	-2.49	-3.25	-4.89	-7.04	-8.03	-11.63	-8.14	-7.10
θ (75°)	-9.54	-17.07	-18.17	-16.48	-8.78	-17.78	-15.00	-16.43	-11.54	-5.09	-3.31	-0.45	-1.30	-2.04	-0.42	-0.81	-1.15	-2.17	-2.85	-4.16	-6.20	-6.62	-6.13	-8.40	-9.54
θ (90°)	-11.83	-9.83	-11.27	-12.37	-22.59	-12.64	-11.03	-8.68	-10.68	-4.41	-4.41	-3.10	-1.11	-2.46	-2.48	-0.65	1.61	1.78	1.01	0.68	-0.53	-0.64	-4.83	-6.89	-11.83
θ (105°)	-5.50	-10.10	-6.63	-9.69	-14.62	-8.85	-14.73	-8.32	-10.34	-4.50	-2.93	-1.04	-3.29	-6.63	-1.99	-1.57	-1.32	-0.69	-0.16	-0.76	-1.28	-4.23	-3.24	-6.68	-5.50
θ (120°)	-7.28	-5.66	-4.46	-5.41	-6.21	-4.99	-8.59	-38.93	-8.06	-10.66	-9.28	-7.75	-5.58	-7.25	-7.93	-3.25	-1.82	-0.96	-0.74	-0.43	-0.36	1.35	-0.82	-1.59	-7.28
θ (135°)	-4.05	0.54	0.71	0.32	-0.81	-2.01	-4.03	-8.95	-11.15	-8.40	-6.33	-13.33	-25.44	-13.33	-7.33	-9.02	-4.42	-1.75	-0.80	-0.36	-0.98	-2.35	-0.90	-4.56	-4.05
θ (150°)	1.79	[3.23]	3.18	2.65	0.36	-1.78	-5.48	-11.95	-26.23	-12.02	-13.28	-19.70	-11.84	-10.97	-15.00	-19.49	-26.93	-14.21	-8.53	-5.23	-3.86	-4.07	-3.58	-0.42	1.79
θ (165°)	1.32	0.78	-0.30	-1.49	-2.76	-6.26	-13.23	-23.30	-18.13	-12.45	-9.72	-8.18	-6.51	-5.87	-7.22	-10.41	-11.36	-8.91	-7.72	-5.50	-3.48	-1.10	0.60	1.10	1.32
θ (180°)	1.43	0.89	-0.95	-4.02	-8.31	-15.60	-19.30	-10.32	-5.77	-2.91	-1.25	-0.70	-0.83	-1.43	-2.93	-5.26	-9.37	-17.67	-18.13	-9.72	-5.92	-3.20	-0.92	0.71	1.43
Polarity	Phi																								
dB	φ (0°)	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-3.54	-5.04	-7.36	-8.85	-8.81	-6.40	-4.52	-3.02	-2.36	-1.50	-1.78	-1.96	-2.79	-3.86	-5.36	-7.31	-8.34	-7.63	-5.67	-3.92	-2.63	-1.75	-1.82	-2.12	-3.54
θ (15°)	-2.76	-4.80	-6.06	-7.11	-5.68	-4.15	-3.13	-2.02	-1.36	-1.10	-1.60	-1.84	-3.15	-5.36	-7.12	-6.24	-5.15	-3.03	-2.60	-2.58	-3.28	-3.43	-3.19	-2.79	-2.76
θ (30°)	-4.80	-8.03	-8.85	-10.75	-11.53	-7.01	-5.65	-4.83	-5.10	-4.46	-3.07	-4.65	-4.67	-6.59	-6.63	-6.06	-6.06	-4.91	-3.02	-1.46	-0.41	-1.35	-4.79	-4.08	-4.80
θ (45°)	-5.83	-7.33	-11.80	-7.46	-12.21	-7.72	-5.20	-5.46	-3.77	-7.89	-7.30	-6.15	-5.84	-7.05	-7.01	-7.05	-2.88	-1.75	-1.63	-1.54	-2.30	-4.86	-4.93	-4.80	-5.83
θ (60°)	-8.18	-8.40	-13.09	-12.51	-8.62	-4.44	-2.76	-3.78	-2.51	-5.54	-4.81	-5.22	-8.75	-6.77	-7.16	-5.99	-3.03	-3.15	-2.23	-1.79	-4.68	-5.32	-6.28	-5.46	-8.18
θ (75°)	-7.18	-10.59	-9.60	-7.57	-8.28	-33.26	-11.08	-3.59	-2.62	-2.56	-6.07	-6.85	-7.14	-6.28	-6.22	-5.15	-3.73	-2.71	-1.34	-1.76	-6.63	-3.11	-2.15	-5.01	-7.18
θ (90°)	-6.29	-9.63	-9.67	-10.50	-11.65	-5.87	-0.64	-4.54	-5.44	-4.19	-3.89	-7.76	-7.29	-9.24	-11.70	-9.37	-9.59	-7.46	-7.10	-4.96	-2.53	-0.51	-2.22	-3.21	-6.29
θ (105°)	-3.55	-6.56	-8.14	-15.65	-14.38	-2.41	-3.16	-17.76	-4.95	-13.17	-8.37	-5.09	-6.80	-6.73	-12.39	-27.70	-8.19	-6.43	-3.60	-0.94	-2.13	-3.57	-1.85	-2.69	-3.55
θ (120°)	-4.87	-8.82	-7.27	-8.41	-5.29	-8.46	-10.40	-6.12	-3.87	-3.25	-12.14	-7.08	-7.04	-8.22	-5.81	-9.75	-13.70	-6.77	-4.33	-3.84	-3.84	-3.91	-1.88	-4.41	-4.87
θ (135°)	-7.67	-8.14	-8.60	-4.54	-2.50	-3.61	-3.30	-1.32	-0.33	-0.33	-2.75	-6.06	-7.41	-6.97	-7.06	-5.49	-5.94	-5.52	-6.38	-7.11	-7.64	-15.10	-11.74	-14.15	-7.67
θ (150°)	-8.61	-9.79	-5.44	-1.48	-0.72	-1.70	-4.01	-5.66	-6.39	-6.16	-5.42	-5.96	-10.09	-6.72	-3.20	-3.63	-3.96	-3.63	-3.24	-2.90	-2.12	-2.77	-4.03	-6.09	-8.61
θ (165°)	-13.25	-13.22	-7.76	-3.41	-1.23	-1.18	-2.87	-8.35	-24.60	-19.23	-22.10	-13.45	-7.11	-5.52	-5.30	-3.35	-2.61	-2.67	-2.11	-3.01	-3.37	-3.93	-4.85	-7.21	-13.25
θ (180°)	-18.18	-10.26	-7.23	-5.36	-3.86	-1.23	-0.16	[0.02]	-0.65	-2.69	-6.40	-12.94	-28.91	-10.26	-5.32	-2.98	-1.52	-1.17	-1.44	-2.30	-3.84	-5.14	-7.91	-13.50	-18.18

Ant.	No.2																								
Freq. (MHz)	5150																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-4.63	-5.15	-5.53	-5.45	-5.07	-4.58	-4.09	-3.80	-3.28	-3.00	-2.93	-3.69	-4.60	-5.24	-5.75	-6.55	-6.12	-5.30	-4.27	-3.76	-3.51	-3.58	-3.97	-4.22
θ (15°)	-3.60	-2.71	-2.01	-2.06	-2.07	-1.90	-2.15	-3.04	-4.26	-6.08	-6.11	-4.32	-2.91	-2.70	-4.05	-6.33	-7.13	-5.74	-3.81	-2.33	-1.64	-1.00	-1.79	-2.72	-3.60
θ (30°)	-2.16	0.83	1.24	-0.46	-1.23	-2.74	-5.35	-7.09	-6.56	-7.50	-10.85	-7.14	-0.45	0.04	-2.10	-3.35	-7.15	-18.52	-16.89	-9.90	-7.03	-6.28	-3.67	-2.01	-2.16
θ (45°)	-3.38	-0.08	-0.42	-1.50	-0.99	-0.91	-2.29	-5.49	-8.72	-6.74	-5.99	-5.99	-2.29	-2.07	-1.79	-9.89	-8.87	-6.89	-6.21	-7.71	-10.79	-17.37	-19.03	-6.53	-3.38
θ (60°)	-10.70	-7.02	-3.48	-3.13	-6.40	-10.81	-15.15	-22.66	-20.02	-8.36	-4.57	-9.61	-0.71	-0.41	-5.53	-2.31	-3.82	-3.07	-8.12	-39.65	-9.42	-8.35	-10.64	-22.01	-10.70
θ (75°)	-5.89	-2.10	-2.78	-2.80	-5.17	-8.57	-9.39	-15.56	-27.29	-9.83	-6.07	-2.57	1.29	1.83	-2.53	-10.10	-2.47	-10.10	-10.05	-7.86	-5.45	-3.70	-3.64	-8.76	-5.89
θ (90°)	-9.79	-4.98	-7.93	-7.52	-4.55	-3.41	-3.53	-5.57	-10.84	-10.28	-3.41	-6.07	-4.06	-3.23	-4.87	-2.12	-8.41	-14.93	-10.75	-8.59	-9.96	-17.24	-10.98	-3.28	-9.79
θ (105°)	-7.23	-3.28	-7.18	-5.00	-11.91	-11.87	-10.08	-10.17	-17.25	-15.72	-6.01	-1.64	1.74	[3.27]	-1.57	-3.77	-14.69	-6.79	-14.64	-10.84	-13.55	-11.99	-13.03	-5.55	-7.23
θ (120°)	-3.37	-5.62	-14.67	-13.84	-9.32	-9.96	-7.56	-10.23	-3.45	-4.34	-6.44	-5.04	-1.35	-1.90	-17.12	-5.39	-8.37	-6.14	-6.54	-9.71	-15.22	-13.95	-8.14	-10.15	-3.37
θ (135°)	-0.79	-5.91	-14.72	-9.08	-7.42	-8.24	-7.13	-8.02	-8.87	-4.53	-8.84	-5.70	-3.82	-1.67	-1.44	0.61	-2.68	-2.25	-2.77	-2.36	-0.46	0.14	-0.41	-0.10	-0.79
θ (150°)	0.76	-2.45	-8.79	-16.62	-11.86	-10.19	-13.03	-18.18	-13.71	-8.19	-3.32	-1.03	0.00	0.61	-0.10	-2.26	-6.74	-14.87	-24.41	-16.48	-9.28	-5.31	-1.17	1.70	0.76
θ (165°)	-0.66	-3.04	-5.73	-8.07	-10.13	-10.81	-11.79	-15.65	-26.79	-15.92	-10.86	-8.67	-7.19	-5.82	-5.03	-5.78	-8.85	-16.80	-25.32	-20.80	-14.10	-5.42	-1.46	-0.18	-0.66
θ (180°)	-10.34	-10.98	-12.63	-15.97	-20.83	-33.03	-22.94	-16.33	-13.09	-11.25	-10.52	-11.28	-12.57	-14.52	-18.93	-28.29	-32.19	-23.06	-20.48	-18.44	-16.42	-14.16	-12.24	-11.14	-10.34
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-4.79	-4.72	-4.74	-4.75	-4.92	-5.32	-5.68	-6.11	-6.98	-7.08	-6.74	-6.24	-5.40	-4.84	-4.00	-3.50	-3.39	-3.53	-4.14	-4.87	-5.47	-6.52	-6.52	-5.73
θ (15°)	-6.79	-5.53	-5.04	-5.13	-6.59	-9.53	-11.99	-10.12	-6.41	-4.17	-3.59	-4.85	-6.22	-4.35	-2.21	-1.25	-1.11	-1.48	-2.64	-4.16	-6.82	-9.16	-11.08	-10.61	-6.79
θ (30°)	-8.01	-8.53	-9.59	-5.82	-3.53	-2.09	-1.51	-1.75	-2.60	-3.33	-3.11	-2.61	-5.20	-6.78	-4.34	-2.15	-1.77	-1.83	-2.47	-3.55	-6.19	-8.77	-8.98	-11.27	-8.01
θ (45°)	-6.34	-11.67	-16.07	-9.90	-12.24	-9.94	-4.95	-2.24	-2.03	-4.39	-6.31	-3.37	-5.18	-8.40	-4.96	-6.25	-5.90	-4.05	-4.09	-4.34	-6.22	-14.48	-11.08	-11.41	-6.34
θ (60°)	-9.49	-7.97	-9.47	-23.51	-15.23	-7.87	-4.56	-3.62	-1.39	-2.39	-5.38	-7.42	-7.18	-7.55	-7.71	-5.96	-6.36	-8.73	-3.77	-1.29	-0.31	-4.98	-12.34	-10.04	-9.49
θ (75°)	-15.62	-11.32	-7.54	-12.19	-12.27	-5.43	-5.32	-7.44	-6.41	-5.11	-6.92	-7.25	-12.69	-9.31	-16.89	-6.23	-6.52	-7.47	-4.88	-2.65	-8.78	-1.29	-8.33	-15.22	-15.62
θ (90°)	-13.99	-16.04	-15.18	-13.84	-9.39	-3.35	-1.26	-1.45	-8.45	-8.51	-5.47	-8.07	-8.47	-10.80	-8.96	-7.36	-24.51	-16.34	-1.13	2.52	1.17	-4.66	-15.43	-12.76	-13.99
θ (105°)	-12.45	-18.39	-16.00	-13.34	-21.51	-7.45	-6.27	-7.45	-7.50	-6.50	-8.29	-12.67	-13.23	-10.30	-10.02	-16.33	-2.49	-10.73	-1.39	1.13	1.87	-0.60	-6.74	-21.83	-12.45
θ (120°)	-24.54	-11.75	-20.07	-5.16	-2.86	-3.52	-4.16	-6.83	-14.08	-3.74	-3.91	-11.12	-9.90	-15.58	-14.37	-8.35	-1.16	0.53	-1.13	0.21	[2.62]	0.35	-6.68	-11.55	-24.54
θ (135°)	-16.37	-13.66	-14.79	-3.92	-0.53	-1.79	-4.39	-11.12	-12.29	-10.16	-18.19	-11.38	-9.80	-8.34	-6.01	-3.11	0.05	-4.35	-5.87	-1.11	-1.09	-2.41	-2.89	-5.73	-16.37
θ (150°)	-12.29	-31.73	-25.23	-15.23	-7.30	-3.73	-2.45	-4.08	-7.52	-10.40	-9.60	-10.23	-18.16	-15.70	-7.45	-3.94	-2.16	-2.99	-10.65	-8.18	-2.15	-0.89	-1.64	-3.36	-12.29
θ (165°)	-27.82	-15.87	-11.37	-9.59	-8.91	-9.29	-9.61	-9.58	-9.41	-9.59	-12.66	-19.65	-31.97	-21.85	-16.01	-11.25	-8.70	-9.67	-15.98	-15.22	-7.85	-6.24	-7.67	-10.34	-27.82
θ (180°)	-20.09	-18.36	-15.52	-14.33	-12.70	-12.40	-12.80	-13.08	-14.35	-17.49	-22.05	-28.56	-25.32	-18.88	-16.20	-18.77	-17.70	-17.51	-16.45	-17.59	-20.13	-22.70	-27.52	-32.52	-20.09

Ant.	No.2																								
Freq. (MHz)	5250																								
Polarity	Theta																								
dB	φ (0°)	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-10.00	-10.53	-7.70	-5.21	-3.48	-2.40	-1.86	-1.92	-2.52	-3.52	-4.77	-6.53	-9.38	-11.55	-10.31	-7.89	-5.49	-3.60	-2.52	-2.01	-2.14	-2.82	-3.98	-6.19	-10.00
θ (15°)	-8.76	-6.91	-4.84	-4.10	-3.32	-2.91	-2.81	-3.53	-5.06	-7.40	-9.43	-7.32	-4.91	-4.22	-5.21	-6.70	-6.94	-5.84	-4.28	-3.23	-2.43	-2.45	-3.23	-4.91	-8.76
θ (30°)	-5.09	-1.07	-1.56	-2.58	-1.90	-2.91	-5.13	-6.91	-8.47	-14.12	-20.52	-8.38	-1.02	0.01	-2.27	-3.93	-6.55	-12.63	-14.23	-8.83	-6.23	-4.40	-2.41	-2.96	-5.09
θ (45°)	-4.44	-1.02	-0.98	-1.99	-1.77	-2.06	-3.75	-7.76	-12.57	-11.92	-12.92	-7.23	-1.33	-3.11	-2.88	-9.86	-14.83	-13.29	-12.27	-13.27	-13.64	-12.14	-17.54	-6.32	-4.44
θ (60°)	-8.49	-6.15	-3.07	-3.26	-4.30	-4.94	-6.71	-10.38	-22.24	-13.28	-5.11	-4.93	-0.41	0.50	-5.69	-3.47	-5.71	-4.16	-7.13	-11.33	-9.24	-7.78	-9.65	-16.03	-8.49
θ (75°)	-7.99	-3.21	-2.91	-1.71	-1.40	-2.18	-2.87	-7.12	-16.41	-13.84	-4.84	-5.10	2.12	1.64	-1.87	-9.68	-3.27	-6.91	-9.21	-15.46	-12.29	-5.11	-2.16	-5.79	-7.99
θ (90°)	-8.23	-3.81	-6.41	-3.23	-1.41	-1.90	-2.86	-4.57	-14.28	-15.47	-6.56	-5.58	-3.04	-0.29	-5.59	-3.85	-5.62	-11.16	-6.34	-6.42	-9.86	-24.12	-23.86	-2.22	-8.23
θ (105°)	-8.32	-2.81	-7.24	-2.43	-4.41	-4.69	-5.75	-9.43	-14.08	-16.61	-3.90	-2.94	1.77	[3.09]	-0.16	-4.19	-24.67	-4.94	-4.79	-5.22	-6.99	-10.14	-9.25	-6.88	-8.32
θ (120°)	-4.64	-4.98	-14.50	-6.22	-3.30	-6.21	-5.11	-8.99	-4.62	-6.74	-8.97	-3.55	-0.72	0.26	-11.30	-9.02	-11.30	-4.37	-4.36	-6.96	-8.31	-10.77	-14.75	-15.86	-4.64
θ (135°)	-0.91	-4.46	-17.70	-6.41	-4.15	-6.13	-6.40	-7.34	-7.15	-4.21	-12.62	-5.85	-4.59	-2.10	-0.56	0.20	-6.64	-2.91	-2.51	-1.73	-1.13	-1.26	-1.46	-1.57	-0.91
θ (150°)	1.04	-2.01	-7.13	-10.52	-7.55	-7.08	-9.55	-12.31	-10.44	-9.82	-6.23	-1.31	1.53	2.20	1.15	-0.27	-3.25	-10.67	-20.70	-15.64	-9.45	-5.49	-1.64	1.63	1.04
θ (165°)	-1.05	-3.71	-6.68	-9.07	-11.64	-13.03	-14.04	-15.33	-17.85	-20.44	-14.04	-7.12	-3.94	-3.02	-3.29	-4.61	-7.52	-14.26	-24.00	-23.24	-13.54	-5.79	-1.85	-0.62	-1.05
θ (180°)	-9.66	-10.07	-11.46	-14.03	-18.32	-27.31	-27.57	-17.62	-12.86	-10.18	-9.46	-9.89	-11.27	-13.43	-15.39	-19.21	-20.83	-21.98	-20.10	-18.16	-16.10	-13.47	-12.47	-11.30	-9.66
Polarity	Phi																								
dB	φ (0°)	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-1.73	-1.42	-1.79	-2.75	-4.56	-7.59	-12.18	-17.38	-11.84	-8.09	-5.72	-4.08	-3.01	-2.31	-2.33	-2.96	-4.26	-6.60	-10.10	-14.74	-14.35	-8.32	-5.27	-3.46	-1.73
θ (15°)	-2.54	-1.51	-1.91	-3.46	-7.17	-15.26	-16.98	-8.52	-4.91	-2.56	-1.60	-1.98	-2.83	-3.02	-2.66	-2.55	-2.83	-3.81	-5.21	-7.18	-9.22	-10.76	-9.62	-7.12	-2.54
θ (30°)	-5.30	-3.96	-4.30	-5.01	-6.95	-6.32	-6.20	-6.60	-5.49	-2.38	-1.29	-0.42	-2.79	-6.08	-5.30	-3.99	-3.08	-3.08	-4.02	-5.76	-8.63	-10.61	-9.48	-10.85	-5.30
θ (45°)	-4.36	-7.38	-18.04	-12.67	-13.02	-11.08	-9.03	-7.05	-7.38	-7.13	-3.79	-1.60	-3.59	-10.32	-6.16	-8.91	-10.39	-6.84	-5.81	-5.11	-5.81	-13.53	-10.40	-11.02	-4.36
θ (60°)	-5.61	-5.20	-9.19	-18.40	-14.16	-10.39	-8.86	-8.28	-4.17	-3.89	-4.95	-5.45	-4.79	-8.59	-5.15	-7.34	-11.56	-13.55	-5.27	-1.59	-0.24	-4.59	-10.90	-7.24	-5.61
θ (75°)	-10.38	-6.25	-6.38	-11.89	-8.91	-5.55	-10.20	-19.13	-8.67	-5.61	-7.43	-7.51	-10.24	-7.69	-12.12	-6.52	-7.75	-8.71	-7.17	-4.00	-9.57	-1.04	-8.18	-11.83	-10.38
θ (90°)	-14.32	-22.49	-17.43	-13.55	-11.27	-4.08	-3.08	-4.18	-11.23	-7.68	-4.90	-8.33	-6.36	-8.09	-8.13	-7.40	-17.66	-20.05	-2.21	[1.59]	0.91	-3.07	-13.25	-17.47	-14.32
θ (105°)	-11.32	-11.03	-18.85	-12.42	-7.45	-6.00	-5.52	-6.51	-10.09	-7.62	-9.24	-10.51	-11.77	-6.16	-7.72	-15.28	-2.55	-12.04	-2.25	0.24	0.92	-2.42	-6.25	-19.03	-11.32
θ (120°)	-17.87	-14.66	-21.40	-7.55	-5.28	-7.54	-7.21	-6.50	-8.82	-5.18	-4.50	-9.89	-9.31	-15.04	-12.64	-8.35	-2.41	-0.54	-1.84	-0.44	1.59	-1.37	-5.78	-17.35	-17.87
θ (135°)	-35.67	-16.04	-13.17	-5.31	-4.00	-4.08	-5.85	-9.29	-9.21	-6.41	-12.62	-10.90	-13.51	-6.35	-5.06	-1.98	-0.13	-6.09	-5.58	-1.22	-1.38	-2.60	-4.49	-5.84	-35.67
θ (150°)	-11.00	-28.08	-20.04	-11.24	-5.44	-2.89	-2.30	-4.75	-9.35	-11.69	-8.55	-6.74	-12.04	-15.67	-5.86	-3.47	-1.81	-2.08	-7.28	-8.40	-3.22	-1.57	-1.32	-1.77	-11.00
θ (165°)	-20.71	-14.85	-9.97	-9.23	-9.66	-10.74	-11.61	-13.20	-17.23	-17.95	-13.24	-13.01	-21.47	-19.56	-12.54	-9.70	-8.33	-9.19	-12.78	-16.14	-8.54	-5.55	-5.93	-7.93	-20.71
θ (180°)	-22.34	-19.17	-15.59	-13.11	-12.03	-10.84	-10.53	-11.21	-11.83	-12.42	-15.74	-25.86	-27.40	-20.37	-17.31	-16.60	-14.51	-15.75	-16.77	-18.83	-17.53	-17.97	-19.65	-24.98	-22.34

Ant.	No.2																									
Freq. (MHz)	5350																									
Polarity	Theta																									
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)	
	θ (0°)	-15.26	-12.57	-7.57	-4.42	-2.64	-1.78	-1.84	-2.58	-3.79	-5.73	-8.57	-12.30	-15.43	-13.54	-9.62	-6.85	-4.67	-3.50	-2.48	-2.39	-2.64	-3.84	-5.95	-9.76	-15.26
θ (15°)	-15.06	-26.75	-15.12	-9.84	-5.96	-4.29	-4.56	-6.14	-7.81	-9.02	-9.84	-14.34	-35.32	-15.44	-13.30	-12.54	-11.69	-9.98	-7.49	-5.38	-4.00	-3.71	-4.65	-6.37	-8.22	-15.06
θ (30°)	-11.24	-6.11	-7.35	-6.46	-4.94	-7.19	-10.25	-12.17	-12.59	-14.49	-11.24	-9.78	-4.02	-2.45	-6.48	-9.69	-9.12	-10.37	-12.12	-11.12	-7.47	-4.35	-2.22	-4.73	-11.24	
θ (45°)	-6.13	-3.82	-2.02	-3.85	-4.60	-6.84	-8.69	-11.97	-16.47	-16.25	-12.57	-10.85	-2.48	-5.66	-5.09	-6.28	-9.59	-8.43	-9.05	-12.08	-22.73	-12.28	-13.05	-5.95	-6.13	
θ (60°)	-9.56	-10.65	-3.57	-5.75	-4.54	-1.88	-1.71	-3.78	-9.31	-13.85	-6.71	-1.64	-1.07	-3.10	-9.47	-5.31	-5.45	-2.99	-2.76	-4.81	-6.57	-7.88	-7.40	-12.10	-9.56	
θ (75°)	-11.29	-4.35	-2.63	-3.33	-0.42	0.79	0.08	-4.12	-12.50	-32.89	-7.61	-9.50	[1.16]	-1.39	-2.43	-7.54	-3.63	-5.23	-5.18	-8.06	-51.57	-7.36	-1.95	-4.43	-11.29	
θ (90°)	-8.11	-4.80	-3.77	-2.02	-0.14	0.47	-0.02	-2.86	-11.58	-11.76	-8.87	-2.90	-1.08	-0.38	-10.98	-6.91	-5.40	-9.64	-4.40	-3.99	-9.47	-11.57	-14.58	-2.13	-8.11	
θ (105°)	-11.05	-2.69	-4.96	-1.35	-2.29	-0.96	-1.60	-6.40	-9.71	-19.49	-4.38	-6.65	0.56	0.09	-1.52	-6.20	-11.96	-3.64	-1.41	-3.60	-4.99	-8.31	-5.52	-15.19	-11.05	
θ (120°)	-9.57	-5.75	-15.38	-3.47	-1.53	-5.91	-4.30	-6.88	-7.20	-8.42	-5.27	-2.37	-2.39	-0.02	-7.06	-13.30	-12.24	-4.66	-4.51	-6.06	-5.79	-7.49	-20.54	-28.42	-9.57	
θ (135°)	-4.61	-6.33	-23.03	-5.61	-3.25	-6.07	-7.06	-8.89	-9.34	-9.96	-10.29	-6.78	-5.30	-3.41	-3.64	-2.39	-14.30	-5.31	-2.32	-1.56	-2.46	-4.83	-7.12	-6.21	-4.61	
θ (150°)	-1.83	-4.44	-8.17	-9.31	-7.95	-7.29	-8.96	-10.63	-9.39	-11.90	-10.13	-2.60	0.54	1.09	0.07	-1.21	-3.71	-9.74	-20.21	-17.91	-12.30	-8.53	-3.73	0.00	-1.83	
θ (165°)	-4.31	-7.60	-9.75	-12.05	-16.63	-18.99	-18.14	-17.04	-17.14	-25.03	-15.82	-7.04	-4.06	-3.67	-4.89	-6.78	-9.79	-14.18	-21.69	-21.42	-14.95	-7.88	-4.11	-3.19	-4.31	
θ (180°)	-10.15	-10.66	-12.34	-14.94	-18.80	-23.09	-20.49	-15.52	-12.60	-11.37	-11.56	-11.73	-12.09	-11.98	-12.12	-13.62	-14.31	-15.97	-16.61	-16.45	-14.33	-12.76	-11.56	-10.77	-10.15	
Polarity	Phi																									
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)	
	θ (0°)	-1.25	-1.39	-2.27	-4.08	-6.79	-10.15	-11.35	-8.75	-6.12	-4.48	-3.40	-2.92	-2.96	-3.28	-3.93	-4.82	-6.56	-8.98	-11.55	-11.47	-8.17	-5.40	-3.17	-1.72	-1.25
θ (15°)	-1.41	-0.02	-0.76	-2.99	-6.80	-10.01	-7.87	-4.86	-2.97	-1.41	-0.14	-0.86	-3.88	-7.35	-8.56	-7.46	-6.84	-7.60	-9.72	-12.30	-18.88	-23.47	-11.91	-6.96	-1.41	
θ (30°)	-2.91	-1.10	-2.78	-5.18	-11.46	-24.21	-14.98	-8.45	-4.26	-0.73	-0.40	-0.45	-3.29	-9.85	-6.52	-4.24	-3.97	-4.32	-5.60	-7.62	-11.70	-14.23	-10.21	-10.84	-2.91	
θ (45°)	-3.43	-5.06	-8.68	-16.91	-13.32	-8.83	-7.75	-6.91	-6.60	-5.81	-1.90	-1.68	-5.04	-10.60	-5.50	-7.42	-10.30	-11.83	-11.49	-10.27	-10.84	-23.43	-6.89	-8.58	-3.43	
θ (60°)	-5.07	-5.00	-11.34	-13.37	-11.38	-10.28	-7.71	-6.06	-5.50	-3.49	-5.72	-4.58	-4.63	-6.75	-4.46	-17.03	-12.12	-23.51	-8.92	-3.32	-1.86	-6.93	-12.62	-6.47	-5.07	
θ (75°)	-8.44	-4.81	-9.46	-8.36	-6.10	-10.24	-13.86	-9.45	-8.83	-3.40	-7.14	-6.79	-9.59	-6.77	-9.29	-6.61	-14.51	-11.82	-8.15	-5.84	-11.44	-3.31	-14.20	-11.85	-8.44	
θ (90°)	-17.69	-23.69	-11.97	-33.35	-5.13	-5.09	-7.76	-8.59	-13.05	-5.01	-7.55	-8.40	-5.38	-6.45	-7.41	-10.12	-21.00	-25.48	-4.50	[0.33]	0.20	-4.87	-15.39	-18.62	-17.69	
θ (105°)	-13.25	-10.16	-16.76	-13.17	-2.73	-5.23	-9.74	-12.24	-14.37	-7.14	-7.46	-12.36	-12.96	-5.26	-8.33	-10.87	-2.66	-10.92	-4.44	-1.00	-0.61	-4.02	-8.77	-21.82	-13.25	
θ (120°)	-18.77	-18.63	-18.24	-14.51	-14.14	-16.02	-9.37	-4.35	-7.94	-11.82	-5.42	-10.51	-6.00	-11.64	-9.29	-12.17	-6.57	-1.87	-3.26	-1.78	-0.98	-4.64	-8.66	-23.59	-18.77	
θ (135°)	-22.78	-16.10	-13.76	-12.11	-12.12	-6.08	-5.93	-7.63	-12.29	-7.97	-13.08	-10.74	-15.06	-6.30	-4.93	-3.00	-1.96	-8.30	-6.06	-3.56	-4.62	-5.62	-7.54	-7.96	-22.78	
θ (150°)	-14.70	-20.44	-15.47	-9.35	-6.89	-6.35	-6.09	-7.26	-12.50	-12.97	-6.93	-4.89	-9.66	-25.17	-7.62	-5.24	-3.20	-3.06	-7.29	-12.03	-7.51	-5.06	-3.87	-4.29	-14.70	
θ (165°)	-25.21	-16.41	-12.11	-11.18	-11.94	-13.41	-18.21	-30.39	-21.01	-13.05	-9.55	-9.07	-15.21	-21.69	-13.92	-12.07	-11.18	-11.23	-15.23	-17.60	-10.36	-7.69	-7.66	-9.59	-25.21	
θ (180°)	-31.44	-21.20	-15.79	-13.25	-11.98	-10.91	-10.09	-10.08	-11.89	-14.53	-17.57	-21.69	-18.36	-16.41	-15.94	-15.41	-14.95	-15.17	-14.82	-14.57	-14.79	-16.89	-18.24	-21.69	-31.44	

Ant.	No.3																									
Freq. (MHz)	5150																									
Polarity	Theta																									
dB	φ																									
	$\varphi(0^\circ)$	$\varphi(15^\circ)$	$\varphi(30^\circ)$	$\varphi(45^\circ)$	$\varphi(60^\circ)$	$\varphi(75^\circ)$	$\varphi(90^\circ)$	$\varphi(105^\circ)$	$\varphi(120^\circ)$	$\varphi(135^\circ)$	$\varphi(150^\circ)$	$\varphi(165^\circ)$	$\varphi(180^\circ)$	$\varphi(195^\circ)$	$\varphi(210^\circ)$	$\varphi(225^\circ)$	$\varphi(240^\circ)$	$\varphi(255^\circ)$	$\varphi(270^\circ)$	$\varphi(285^\circ)$	$\varphi(300^\circ)$	$\varphi(315^\circ)$	$\varphi(330^\circ)$	$\varphi(345^\circ)$	$\varphi(360^\circ)$	
$\theta(0^\circ)$	-4.23	-4.30	-4.57	-5.01	-5.38	-5.67	-5.32	-4.77	-4.13	-3.58	-2.99	-3.01	-3.40	-4.07	-5.11	-6.23	-6.62	-6.44	-5.72	-4.94	-4.38	-3.90	-3.82	-3.86	-4.23	
$\theta(15^\circ)$	-7.14	-6.85	-5.52	-5.43	-6.41	-8.08	-10.97	-12.04	-9.63	-5.80	-2.98	-1.12	-0.53	-1.39	-3.60	-6.63	-8.26	-7.49	-6.03	-4.71	-4.11	-3.40	-3.58	-4.42	-7.14	
$\theta(30^\circ)$	-6.81	-8.19	-10.61	-10.25	-8.19	-8.88	-12.69	-16.71	-8.68	-3.19	-0.92	0.18	1.29	-0.20	-2.72	-4.42	-5.53	-6.38	-7.16	-7.79	-6.21	-5.10	-5.09	-4.84	-6.81	
$\theta(45^\circ)$	-3.77	-6.80	-14.84	-7.09	-3.14	-2.54	-3.50	-4.61	-5.09	-6.32	-1.57	0.37	0.92	-1.96	-2.32	-3.62	-4.39	-5.47	-5.46	-5.32	-6.08	-5.84	-5.28	-5.54	-3.77	
$\theta(60^\circ)$	-2.06	-3.75	-10.79	-8.40	-4.66	-6.04	-6.82	-4.58	-2.86	-1.74	-1.30	0.29	1.71	-0.13	-1.53	-3.63	-6.32	-11.15	-15.29	-20.42	-22.46	-14.33	-11.96	-10.43	-2.06	
$\theta(75^\circ)$	-6.18	-7.39	-14.74	-7.69	-6.69	-6.04	-4.85	-6.40	-3.08	-1.32	0.78	2.86	2.81	-0.99	-2.02	-4.89	-8.04	-9.93	-9.93	-11.45	-17.45	-21.93	-15.18	-21.94	-6.18	
$\theta(90^\circ)$	-7.29	-7.67	-8.83	-4.67	-8.69	-12.30	-7.56	-12.61	-7.63	-3.12	-1.90	-1.55	0.89	-1.08	-2.30	-7.14	-16.51	-16.03	-13.61	-11.56	-9.03	-13.43	-21.09	-18.42	-7.29	
$\theta(105^\circ)$	-2.22	0.24	-0.44	-5.10	-5.87	-5.59	-5.33	-19.75	-3.31	-4.39	1.90	[3.35]	1.60	-1.27	-1.26	-7.05	-12.09	-13.52	-11.50	-9.94	-11.19	-13.03	-7.17	-10.12	-2.22	
$\theta(120^\circ)$	-4.15	-3.69	-4.13	-5.81	-2.14	-2.62	-8.90	-19.66	-9.32	-4.76	-5.27	-2.54	0.48	-0.63	-4.73	-11.45	-11.40	-11.42	-12.07	-10.01	-10.65	-13.25	-17.41	-8.70	-4.15	
$\theta(135^\circ)$	-3.08	-2.78	-1.55	-0.62	-1.10	-2.38	-3.89	-8.85	-9.77	-2.00	-0.42	-0.63	-1.78	-3.12	-3.79	-3.47	-6.25	-12.05	-16.43	-15.02	-15.40	-8.59	-12.68	-12.94	-3.08	
$\theta(150^\circ)$	-0.76	-0.43	0.43	0.53	-0.38	-2.01	-4.40	-6.45	-5.87	-2.55	0.58	1.67	1.76	2.72	0.89	-2.64	-6.01	-10.75	-17.26	-16.85	-13.01	-9.58	-7.37	-3.97	-0.76	
$\theta(165^\circ)$	-3.80	-3.65	-4.81	-6.14	-7.80	-8.86	-8.98	-8.33	-6.96	-4.35	-2.54	-1.41	-0.46	-0.31	-2.08	-6.42	-15.52	-26.94	-16.45	-16.12	-22.33	-22.50	-10.73	-6.77	-3.80	
$\theta(180^\circ)$	-11.82	-12.17	-12.96	-13.78	-14.58	-16.09	-17.16	-17.60	-17.99	-20.08	-17.48	-15.57	-14.40	-14.29	-14.18	-14.98	-15.85	-17.35	-18.09	-16.78	-14.44	-12.46	-11.42	-11.19	-11.82	
Polarity	Phi																									
dB	φ																									
	$\varphi(0^\circ)$	$\varphi(15^\circ)$	$\varphi(30^\circ)$	$\varphi(45^\circ)$	$\varphi(60^\circ)$	$\varphi(75^\circ)$	$\varphi(90^\circ)$	$\varphi(105^\circ)$	$\varphi(120^\circ)$	$\varphi(135^\circ)$	$\varphi(150^\circ)$	$\varphi(165^\circ)$	$\varphi(180^\circ)$	$\varphi(195^\circ)$	$\varphi(210^\circ)$	$\varphi(225^\circ)$	$\varphi(240^\circ)$	$\varphi(255^\circ)$	$\varphi(270^\circ)$	$\varphi(285^\circ)$	$\varphi(300^\circ)$	$\varphi(315^\circ)$	$\varphi(330^\circ)$	$\varphi(345^\circ)$	$\varphi(360^\circ)$	
$\theta(0^\circ)$	-4.22	-4.12	-3.70	-3.27	-3.07	-3.02	-3.08	-3.33	-3.84	-4.76	-5.58	-5.85	-5.24	-4.40	-3.44	-2.65	-2.52	-2.54	-2.75	-3.41	-3.96	-4.63	-4.93	-4.61	-4.22	
$\theta(15^\circ)$	-4.83	-4.58	-5.88	-6.46	-5.34	-3.75	-2.23	-1.30	-1.06	-1.21	-2.02	-3.34	-4.22	-3.54	-2.23	-1.42	-1.38	-1.83	-2.74	-4.43	-6.94	-11.37	-13.91	-9.25	-4.83	
$\theta(30^\circ)$	-6.34	-5.30	-5.33	-7.34	-8.67	-5.12	-2.49	-1.03	-0.02	0.17	-0.88	-2.41	-3.20	-2.43	-1.37	-0.85	-1.34	-2.24	-2.86	-3.52	-5.61	-9.85	-15.60	-16.71	-6.34	
$\theta(45^\circ)$	-10.22	-5.62	-7.03	-15.99	-16.34	-8.91	-4.93	-2.12	-2.13	-3.73	-2.17	-3.72	-4.33	-3.25	-2.96	-3.92	-2.65	-1.79	-3.08	-5.79	-8.09	-9.46	-17.97	-35.50	-10.22	
$\theta(60^\circ)$	-12.39	-8.33	-8.30	-11.70	-9.80	-4.91	-3.28	-4.30	-6.19	-1.75	-6.02	-4.60	-6.03	-3.47	-3.59	-1.69	[0.33]	-0.34	-2.31	-5.63	-13.43	-20.93	-18.00	-25.55	-12.39	
$\theta(75^\circ)$	-14.34	-6.86	-5.86	-11.29	-16.58	-6.86	-3.71	-3.83	-7.05	-4.41	-4.69	-4.33	-5.84	-6.27	-4.73	-3.42	-4.38	-4.88	-4.86	-5.93	-9.13	-13.33	-15.53	-14.75	-14.34	
$\theta(90^\circ)$	-18.03	-11.85	-11.46	-9.41	-11.27	-2.27	-2.44	-6.01	-10.51	-6.73	-9.41	-6.15	-7.48	-8.33	-4.79	-5.23	-3.80	-1.11	-2.31	-2.63	-4.99	-10.73	-13.14	-14.83	-21.33	-18.03
$\theta(105^\circ)$	-23.23	-7.49	-6.87	-15.92	-9.28	-2.16	-2.53	-8.40	-11.12	-13.80	-11.22	-8.43	-8.75	-6.82	-5.89	-4.38	-2.76	-4.35	-4.95	-6.81	-20.98	-20.12	-9.32	-9.63	-23.23	
$\theta(120^\circ)$	-17.91	-10.32	-10.17	-10.18	-18.48	-9.43	-7.63	-17.54	-8.63	-5.58	-10.36	-14.32	-11.65	-9.92	-11.16	-6.04	-6.75	-4.50	-3.29	-5.02	-10.59	-13.78	-12.18	-10.32	-17.91	
$\theta(135^\circ)$	-18.25	-16.39	-14.72	-11.00	-5.88	-6.89	-13.48	-12.42	-3.79	-4.78	-9.65	-10.37	-10.69	-7.97	-5.39	-2.60	-3.89	-5.94	-9.88	-11.75	-7.86	-10.31	-10.00	-18.25		
$\theta(150^\circ)$	-13.54	-26.76	-16.15	-8.07	-5.54	-6.55	-11.48	-13.35	-6.62	-4.35	-5.58	-12.38	-30.15	-9.17	-3.10	-3.13	-3.36	-5.58	-9.72	-8.39	-6.09	-6.72	-9.81	-9.42	-13.54	
$\theta(165^\circ)$	-16.33	-14.36	-11.80	-11.24	-11.67	-13.54	-15.12	-11.39	-8.58	-8.31	-11.02	-18.07	-18.56	-7.47	-3.70	-3.10	-4.78	-7.75	-13.19	-21.11	-16.51	-12.40	-11.24	-12.28	-16.33	
$\theta(180^\circ)$	-19.38	-19.45	-17.90	-16.27	-14.73	-13.53	-13.55	-13.23	-12.77	-13.30	-15.06	-17.31	-21.00	-23.44	-19.31	-15.09	-12.70	-12.32	-13.51	-14.39	-14.80	-15.75	-16.50	-18.32	-19.38	

Ant.	No.3																								
Freq. (MHz)	5250																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-3.88	-3.88	-3.88	-3.83	-3.88	-3.98	-4.20	-4.24	-4.30	-3.98	-3.94	-3.93	-4.10	-4.76	-5.27	-5.37	-5.14	-4.72	-4.41	-4.17	-3.99	-4.23	-4.30	-4.06
θ (15°)	-7.20	-6.44	-5.37	-5.40	-6.14	-7.73	-10.33	-11.37	-8.66	-4.98	-2.28	-0.66	-0.41	-1.67	-3.78	-6.30	-8.26	-7.69	-6.00	-3.97	-2.63	-2.15	-2.48	-3.69	-7.20
θ (30°)	-6.07	-6.81	-7.09	-6.73	-5.47	-6.28	-10.24	-18.47	-9.06	-3.63	-0.82	1.67	2.24	0.14	-2.14	-3.36	-3.70	-4.29	-4.79	-4.52	-3.51	-2.87	-3.58	-3.55	-6.07
θ (45°)	-2.35	-4.44	-11.05	-7.43	-3.72	-3.70	-4.42	-5.32	-5.64	-3.85	0.17	2.53	2.20	-0.90	-1.28	-2.75	-3.56	-4.83	-5.19	-4.73	-4.77	-4.41	-4.60	-5.35	-2.35
θ (60°)	-1.32	-3.19	-9.31	-9.75	-6.14	-6.94	-5.72	-2.55	-2.20	-1.69	-2.44	-0.19	2.30	-1.06	-0.26	-3.73	-6.47	-11.66	-18.82	-28.82	-21.11	-14.66	-14.32	-11.65	-1.32
θ (75°)	-4.69	-6.78	-13.56	-12.15	-6.19	-3.62	-3.06	-4.69	-1.14	-2.50	1.84	[4.22]	4.14	-1.09	-0.97	-5.07	-9.32	-12.86	-15.07	-12.71	-13.64	-29.07	-13.11	-14.10	-4.69
θ (90°)	-8.36	-8.93	-8.92	-5.17	-8.52	-10.77	-6.74	-10.17	-6.30	-3.46	-2.75	-2.50	2.20	-1.74	-1.85	-7.40	-11.03	-13.47	-9.58	-9.19	-10.81	-12.81	-18.41	-14.29	-8.36
θ (105°)	-2.24	0.47	0.19	-5.89	-5.83	-3.62	-3.00	-23.09	-1.94	-6.84	2.22	4.01	2.17	-2.73	-1.81	-8.47	-12.66	-17.86	-11.65	-8.41	-9.20	-16.85	-6.11	-7.91	-2.24
θ (120°)	-4.85	-1.75	-3.62	-3.34	-1.75	-2.43	-9.53	-19.15	-9.01	-6.54	-5.76	-1.69	1.59	-0.30	-5.48	-13.49	-7.76	-9.34	-11.32	-10.63	-13.80	-14.35	-9.60	-6.07	-4.85
θ (135°)	-2.32	-1.29	-1.49	0.00	-0.53	-1.60	-3.42	-9.74	-10.47	-1.74	-0.36	-0.71	-1.14	-4.00	-4.70	-3.31	-6.07	-11.53	-13.89	-14.07	-19.57	-11.35	-17.08	-31.80	-2.32
θ (150°)	0.18	1.35	1.27	0.91	0.04	-1.56	-4.10	-6.59	-6.71	-2.76	0.86	2.50	3.13	3.07	-0.20	-4.51	-7.43	-11.71	-16.73	-14.61	-10.57	-8.90	-8.60	-5.67	0.18
θ (165°)	-2.51	-1.62	-2.93	-5.05	-7.10	-8.82	-9.28	-8.77	-7.36	-4.77	-2.32	-0.28	0.93	0.38	-2.62	-8.54	-19.15	-21.86	-17.60	-19.49	-25.70	-21.10	-12.38	-7.57	-2.51
θ (180°)	-10.80	-11.62	-13.16	-13.98	-15.48	-17.58	-20.66	-20.57	-18.84	-16.97	-15.03	-14.27	-13.25	-12.95	-12.49	-13.42	-15.13	-19.22	-22.16	-17.39	-13.85	-11.15	-10.05	-9.63	-10.80
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-3.14	-3.27	-3.47	-3.46	-3.24	-3.06	-2.78	-2.82	-2.98	-3.17	-3.38	-3.31	-3.08	-2.91	-2.82	-2.94	-3.20	-3.36	-3.50	-3.62	-3.52	-3.23	-3.25	-3.20
θ (15°)	-3.55	-4.58	-6.39	-5.96	-4.16	-2.67	-1.76	-1.15	-0.90	-0.83	-1.05	-1.81	-2.28	-1.73	-0.88	-0.14	0.10	-0.26	-1.55	-3.47	-6.68	-11.22	-10.17	-6.33	-3.55
θ (30°)	-4.75	-5.24	-4.81	-5.47	-6.85	-3.36	-0.83	0.36	0.61	-0.08	-1.44	-2.34	-2.74	-1.64	-0.49	0.49	0.39	-0.41	-1.37	-2.38	-3.87	-7.11	-13.20	-12.80	-4.75
θ (45°)	-9.46	-5.34	-5.64	-17.86	-10.69	-5.41	-2.72	-1.14	-1.39	-2.04	-1.44	-3.31	-1.83	-1.22	-0.85	-0.99	-1.22	-1.56	-2.71	-4.41	-5.91	-7.25	-11.87	-23.17	-9.46
θ (60°)	-14.03	-8.84	-6.76	-11.78	-9.39	-4.03	-2.60	-4.28	-4.30	-0.69	-4.41	-3.85	-5.04	-2.32	-1.83	0.29	[1.46]	0.64	-0.92	-3.78	-10.21	-20.99	-19.35	-20.00	-14.03
θ (75°)	-11.25	-6.61	-6.42	-11.51	-21.92	-6.78	-2.03	-2.54	-7.28	-5.72	-5.85	-4.68	-4.05	-5.12	-2.41	-2.42	-3.30	-2.92	-3.48	-5.10	-7.68	-10.13	-16.23	-15.12	-11.25
θ (90°)	-11.67	-12.71	-8.24	-8.05	-8.58	-1.00	-1.47	-5.25	-9.04	-6.84	-5.04	-7.86	-8.41	-6.40	-3.93	-3.14	-0.95	0.19	-0.16	-3.83	-9.77	-9.41	-13.97	-12.51	-11.67
θ (105°)	-28.23	-8.48	-8.17	-15.99	-7.92	-0.96	-1.94	-10.37	-9.57	-16.89	-13.81	-10.13	-6.97	-7.71	-5.57	-5.03	-1.81	-2.71	-4.27	-5.98	-18.84	-20.00	-8.19	-10.94	-28.23
θ (120°)	-10.98	-7.62	-9.75	-11.78	-20.12	-8.48	-7.17	-13.55	-7.65	-6.37	-12.90	-13.61	-13.35	-7.35	-9.75	-5.40	-7.23	-3.49	-1.68	-3.10	-10.00	-12.49	-11.19	-8.29	-10.98
θ (135°)	-11.39	-13.21	-13.23	-11.12	-6.01	-6.46	-11.71	-14.65	-5.10	-5.61	-8.39	-11.02	-11.25	-8.19	-6.68	-1.88	-2.35	-4.05	-7.52	-13.06	-7.21	-6.65	-6.58	-7.99	-11.39
θ (150°)	-9.75	-15.85	-15.11	-8.71	-5.62	-6.36	-12.37	-17.80	-6.80	-3.46	-4.02	-8.98	-25.58	-7.54	-4.25	-5.67	-5.37	-8.13	-11.30	-7.44	-4.43	-3.99	-5.91	-7.72	-9.75
θ (165°)	-12.71	-10.66	-8.07	-9.41	-11.50	-14.88	-15.82	-11.55	-8.62	-7.82	-9.02	-13.89	-16.60	-6.05	-3.32	-4.26	-7.20	-12.61	-21.16	-18.80	-14.37	-11.30	-9.54	-9.05	-12.71
θ (180°)	-18.78	-18.41	-18.47	-16.41	-13.40	-12.08	-12.00	-12.04	-12.14	-13.24	-15.03	-17.23	-21.25	-26.51	-19.27	-14.43	-12.47	-12.34	-11.61	-11.75	-12.24	-14.19	-16.35	-18.91	-18.78

Ant.	No.3																									
Freq. (MHz)	5350																									
Polarity	Theta																									
dB	φ																									
	φ (0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)	
θ (0°)	-4.87	-5.71	-6.20	-6.24	-5.63	-4.57	-3.31	-2.41	-1.88	-1.56	-1.60	-2.15	-3.27	-4.72	-6.48	-7.69	-6.91	-5.34	-3.83	-2.82	-2.32	-2.11	-2.48	-3.37	-4.87	
θ (15°)	-5.21	-7.07	-4.42	-3.82	-4.46	-5.91	-7.88	-11.03	-13.33	-10.28	-6.35	-3.43	-2.18	-2.37	-3.52	-5.48	-6.90	-7.62	-7.11	-5.37	-3.42	-1.28	-0.32	-0.79	-5.21	
θ (30°)	-3.72	-5.72	-5.88	-5.46	-4.71	-6.98	-13.66	-19.18	-9.92	-5.26	-2.19	0.36	1.29	0.58	-0.67	-1.83	-2.53	-3.24	-4.18	-5.47	-5.08	-4.03	-3.06	-1.48	-3.72	
θ (45°)	-2.44	-7.40	-10.19	-6.58	-4.39	-4.62	-5.42	-5.99	-4.88	-2.89	0.06	2.41	1.75	-0.03	-1.29	-2.36	-3.50	-5.22	-6.27	-6.07	-5.32	-4.68	-4.32	-5.05	-2.44	
θ (60°)	-2.03	-5.76	-11.21	-9.15	-6.48	-7.08	-4.92	-2.34	-2.64	-1.94	-4.79	-1.78	1.26	-0.63	-0.44	-4.76	-8.91	-23.84	-13.41	-10.47	-14.14	-9.57	-12.53	-10.20	-2.03	
θ (75°)	-5.11	-8.21	-17.24	-10.21	-6.42	-4.02	-3.36	-3.91	-1.14	-2.80	0.84	[3.87]	3.54	0.29	-0.73	-7.10	-14.84	-16.80	-7.26	-5.51	-9.46	-28.12	-17.17	-23.66	-5.11	
θ (90°)	-14.16	-19.03	-16.19	-3.71	-7.89	-10.00	-5.62	-8.46	-6.70	-4.11	-3.79	-3.55	1.55	-1.22	-1.72	-10.10	-11.50	-9.58	-5.68	-4.69	-5.94	-8.41	-16.62	-20.73	-14.16	
θ (105°)	-2.40	-1.71	-0.26	-3.96	-6.72	-5.03	-3.69	-26.13	-1.65	-6.68	0.69	3.45	1.53	-1.72	-1.51	-10.39	-9.72	-12.74	-5.94	-5.75	-8.10	-12.86	-6.91	-7.58	-2.40	
θ (120°)	-5.80	-2.03	-3.46	-2.89	-1.41	-2.35	-9.02	-19.56	-9.10	-7.96	-6.64	-1.39	0.13	-0.72	-3.23	-25.23	-9.07	-9.98	-7.93	-9.47	-16.58	-17.43	-5.98	-4.57	-5.80	
θ (135°)	-5.32	-1.67	-4.29	-0.75	0.35	-0.41	-2.50	-11.10	-7.81	-1.79	-2.59	-1.24	-2.54	-4.83	-4.52	-5.05	-8.50	-14.27	-21.53	-19.65	-24.93	-19.92	-13.23	-16.51	-5.32	
θ (150°)	-1.27	0.56	0.72	-0.18	-1.30	-2.78	-5.06	-7.85	-7.60	-3.80	-0.45	1.74	2.30	2.11	-1.04	-3.62	-7.41	-15.66	-31.55	-22.19	-11.79	-7.89	-7.33	-6.50	-1.27	
θ (165°)	-3.62	-2.31	-3.21	-4.93	-6.76	-8.30	-9.44	-9.78	-9.05	-6.36	-3.22	-0.77	0.22	-0.80	-4.37	-9.93	-16.97	-21.85	-19.16	-24.05	-23.95	-14.92	-11.06	-8.33	-3.62	
θ (180°)	-10.96	-12.58	-15.52	-18.24	-22.21	-32.84	-27.70	-19.25	-16.34	-13.94	-12.21	-12.09	-11.84	-12.61	-14.04	-15.61	-19.65	-29.79	-23.64	-15.65	-12.33	-10.40	-9.71	-9.46	-10.96	
Polarity	Phi																									
dB	φ																									
	φ (0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)	
θ (0°)	-2.82	-2.18	-1.81	-1.63	-1.88	-2.31	-3.03	-4.04	-5.18	-5.87	-5.39	-3.96	-2.75	-1.66	-0.88	-0.62	-0.92	-1.57	-2.55	-3.99	-5.45	-6.07	-5.39	-4.04	-2.82	
θ (15°)	-3.37	-3.76	-6.86	-8.91	-7.31	-5.10	-3.53	-2.50	-1.86	-1.66	-1.77	-2.14	-2.19	-1.63	-1.07	-0.73	-0.56	-1.13	-2.64	-5.29	-10.99	-20.05	-8.83	-3.37		
θ (30°)	-3.75	-4.13	-5.87	-5.47	-5.10	-2.13	-0.38	0.39	0.37	0.10	-0.86	-1.61	-1.81	-1.27	-0.70	0.41	0.19	-0.77	-1.54	-2.61	-4.46	-7.43	-13.39	-16.40	-3.75	
θ (45°)	-9.39	-5.52	-5.24	-14.23	-10.49	-6.19	-3.76	-1.76	-1.83	-2.51	-1.54	-2.94	-1.26	-1.42	-0.22	-0.71	-1.42	-1.78	-2.19	-3.15	-4.58	-7.39	-13.23	-24.42	-9.39	
θ (60°)	-16.13	-7.66	-7.32	-14.25	-8.09	-3.09	-2.15	-4.26	-4.41	-0.73	-4.85	-3.52	-3.83	-2.81	-1.38	-0.24	[0.85]	0.59	-0.32	-1.85	-5.36	-13.13	-17.45	-19.95	-16.13	
θ (75°)	-13.65	-6.65	-9.03	-10.12	-18.57	-5.34	-1.48	-2.22	-8.13	-7.10	-7.35	-5.00	-2.78	-3.61	-2.43	-2.78	-2.91	-3.13	-4.45	-5.72	-6.26	-8.51	-16.57	-14.02	-13.65	
θ (90°)	-9.87	-10.04	-9.01	-8.81	-7.56	-0.65	-0.73	-4.07	-9.07	-9.34	-8.81	-5.95	-6.66	-7.41	-7.36	-3.61	-3.33	-1.90	-0.30	-1.12	-5.01	-9.33	-7.01	-12.00	-12.33	-9.87
θ (105°)	-16.67	-11.19	-7.95	-10.90	-7.53	0.07	-1.22	-10.85	-9.93	-26.07	-10.86	-10.51	-6.26	-8.49	-5.35	-5.54	-1.93	-2.10	-4.13	-7.43	-20.63	-10.63	-9.23	-10.20	-16.67	
θ (120°)	-12.32	-7.32	-10.17	-17.83	-17.14	-10.39	-7.87	-10.94	-8.15	-8.08	-10.72	-13.83	-10.62	-6.71	-9.59	-8.42	-9.69	-3.59	-1.07	-1.64	-8.76	-15.32	-10.06	-10.52	-12.32	
θ (135°)	-9.12	-12.44	-13.26	-9.83	-6.30	-7.54	-10.06	-10.62	-5.85	-5.71	-7.68	-10.28	-10.75	-7.97	-5.63	-2.37	-3.22	-3.37	-4.25	-10.09	-15.46	-10.04	-6.53	-5.86	-9.12	
θ (150°)	-9.16	-13.40	-15.03	-10.23	-5.53	-6.12	-11.36	-20.26	-7.70	-4.93	-5.09	-9.24	-22.73	-6.66	-5.18	-4.52	-4.45	-7.85	-13.32	-8.67	-4.79	-3.29	-3.21	-5.88	-9.16	
θ (165°)	-12.30	-11.24	-8.61	-9.78	-12.39	-16.32	-25.56	-15.05	-10.00	-8.35	-9.58	-16.77	-14.35	-5.76	-4.25	-5.92	-8.77	-12.71	-23.27	-18.83	-12.22	-10.86	-10.04	-9.56	-12.30	
θ (180°)	-19.86	-18.32	-17.20	-14.83	-13.09	-12.91	-13.43	-13.67	-14.44	-15.27	-18.33	-23.51	-34.43	-25.46	-16.61	-12.36	-11.27	-11.48	-12.08	-13.26	-14.50	-16.55	-18.62	-23.03	-19.86	

Ant.	No.4																								
Freq. (MHz)	5150																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-5.57	-5.31	-4.13	-2.24	-0.55	-0.17	0.60	0.20	-0.10	-1.64	-2.87	-4.45	-5.54	-5.11	-3.74	-2.25	-0.60	-0.15	0.39	0.15	-0.34	-1.27	-2.58	-3.85
θ (15°)	-5.00	-2.48	-0.83	0.04	0.69	1.22	1.04	1.64	0.72	-0.46	-1.63	-3.05	-5.12	-6.69	-6.53	-4.95	-3.59	-2.40	-2.00	-2.31	-3.23	-3.92	-5.46	-6.87	-5.00
θ (30°)	-5.08	-3.10	-0.76	0.28	0.95	1.94	2.36	2.39	1.41	1.08	1.04	-1.09	-2.03	-5.68	-7.98	-7.60	-5.26	-3.46	-2.39	-2.35	-4.09	-7.05	-10.95	-8.82	-5.08
θ (45°)	-6.59	-5.10	-1.91	0.40	1.66	1.25	1.53	1.55	1.30	0.45	-0.57	-2.92	-3.05	-6.39	-6.48	-6.06	-5.43	-4.58	-3.61	-5.19	-8.50	-11.93	-29.73	-12.87	-6.59
θ (60°)	-11.16	-6.29	-6.85	-2.90	-1.38	-0.79	0.04	-0.22	-0.36	-2.56	-4.78	-5.84	-7.23	-9.45	-10.00	-10.20	-6.53	-7.10	-8.47	-8.85	-8.38	-9.69	-15.96	-20.38	-11.16
θ (75°)	-6.81	-5.75	-2.01	-1.07	-0.15	-0.18	-0.53	-0.17	-0.01	-0.46	-1.18	-2.17	-5.17	-4.58	-12.18	-20.46	-14.16	-17.42	-13.09	-11.69	-11.64	-9.64	-15.77	-11.33	-6.81
θ (90°)	-13.32	-7.20	-8.50	-1.81	-0.96	1.57	1.63	1.01	0.67	-0.24	-3.75	-3.68	-3.88	-6.01	-10.57	-10.60	-12.36	-12.94	-17.75	-18.08	-20.69	-13.65	-14.98	-21.71	-13.32
θ (105°)	-4.46	-1.74	-1.91	0.86	1.07	2.12	2.50	[2.82]	2.61	1.17	1.58	0.61	-0.70	-1.42	-5.12	-12.17	-9.26	-10.34	-13.01	-23.28	-15.57	-21.11	-14.63	-9.10	-4.46
θ (120°)	-4.32	-4.82	-2.68	-1.50	0.46	0.76	1.15	1.27	1.41	0.46	-0.37	-0.46	-0.14	-2.93	-3.22	-6.26	-6.58	-14.49	-12.66	-8.04	-7.29	-6.56	-8.65	-5.48	-4.32
θ (135°)	-8.42	-8.93	-15.71	-9.93	-8.80	-6.90	-5.55	-6.27	-7.40	-7.65	-7.74	-4.98	-7.19	-7.26	-6.19	-7.22	-12.92	-9.70	-5.40	-5.04	-4.25	-4.83	-6.77	-6.64	-8.42
θ (150°)	-9.43	-8.90	-7.22	-12.31	-10.95	-8.76	-9.68	-9.31	-7.65	-7.14	-7.20	-6.36	-7.64	-9.48	-5.75	-7.99	-16.00	-12.30	-7.28	-5.39	-5.41	-3.79	-2.23	-4.32	-9.43
θ (165°)	-8.82	-7.15	-4.74	-5.58	-9.44	-13.57	-13.31	-13.78	-15.08	-14.91	-10.71	-7.63	-6.83	-6.56	-5.89	-8.20	-14.71	-11.34	-7.48	-8.14	-9.50	-8.90	-7.72	-8.58	-8.82
θ (180°)	-13.83	-10.44	-7.01	-5.38	-4.34	-3.63	-4.24	-6.36	-9.00	-12.60	-12.54	-13.77	-11.88	-8.74	-7.07	-6.56	-5.88	-6.01	-5.70	-6.90	-8.82	-11.96	-17.25	-19.53	-13.83
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-0.11	0.02	-0.22	-1.20	-2.38	-4.69	-6.58	-6.91	-5.58	-3.08	-1.96	-0.78	-0.32	-0.38	-0.87	-1.62	-3.32	-5.31	-7.39	-6.93	-4.87	-3.29	-1.47	-0.60
θ (15°)	0.63	0.42	-0.33	-1.70	-3.09	-4.33	-5.56	-6.00	-5.01	-3.20	-2.54	-1.29	-0.38	-0.56	-1.92	-3.84	-5.50	-8.72	-9.45	-7.54	-4.33	-2.34	-0.52	0.41	0.63
θ (30°)	[1.60]	0.85	-0.19	-1.01	-1.57	-2.99	-5.62	-8.26	-8.93	-8.68	-3.83	-1.98	-1.63	-1.68	-1.27	-2.52	-3.88	-6.41	-9.80	-7.25	-3.28	-1.30	0.26	1.02	1.60
θ (45°)	0.95	-0.18	-0.79	-0.84	-2.95	-6.31	-9.58	-13.48	-13.12	-10.07	-8.47	-4.38	-3.57	-2.48	-3.86	-3.44	-5.24	-7.28	-11.41	-12.83	-6.51	-1.36	-0.16	-0.10	0.95
θ (60°)	-2.48	-4.10	-3.11	-2.70	-4.44	-6.79	-8.96	-11.00	-16.36	-13.85	-14.71	-15.13	-10.12	-13.74	-7.97	-8.03	-6.81	-3.96	-4.32	-7.89	-8.01	-7.94	-4.72	-4.62	-2.48
θ (75°)	-2.04	-4.15	-4.31	-5.66	-5.99	-6.95	-9.69	-12.12	-13.50	-15.70	-16.98	-13.11	-12.91	-16.95	-16.68	-20.53	-9.95	-11.44	-10.96	-11.40	-12.95	-5.55	-2.99	-2.76	-2.04
θ (90°)	-1.88	-3.44	-2.27	-4.07	-8.18	-10.88	-16.03	-16.64	-16.49	-10.69	-13.07	-8.36	-10.68	-14.35	-11.56	-12.78	-6.35	-9.67	-2.58	-7.11	-7.53	-6.87	-4.59	-2.99	-1.88
θ (105°)	-4.08	-4.43	-4.54	-6.23	-9.85	-13.55	-21.80	-43.09	-14.73	-15.05	-18.90	-12.87	-8.31	-12.01	-12.13	-11.26	-18.51	-5.21	-1.76	-5.90	-10.53	-7.72	-8.70	-5.65	-4.08
θ (120°)	-3.76	-4.90	-5.17	-4.77	-8.93	-14.78	-22.01	-16.09	-12.90	-9.83	-8.13	-7.92	-8.93	-10.06	-18.93	-14.33	-15.80	-13.01	-7.15	-8.14	-9.38	-6.36	-4.94	-5.48	-3.76
θ (135°)	-4.09	-7.58	-10.22	-10.06	-14.95	-29.98	-19.96	-15.51	-11.73	-8.02	-15.21	-6.59	-6.57	-8.39	-6.18	-7.27	-11.54	-12.69	-8.73	-5.64	-5.78	-3.87	-4.08	-4.30	-4.09
θ (150°)	-2.94	-3.45	-7.18	-14.27	-14.71	-21.11	-20.61	-16.91	-15.62	-8.15	-4.80	-6.85	-5.40	-2.78	-4.85	-7.78	-11.08	-12.02	-13.66	-9.81	-6.46	-5.07	-3.10	-1.61	-2.94
θ (165°)	-1.63	-1.20	-3.14	-8.36	-18.76	-39.47	-19.67	-14.53	-11.60	-9.71	-7.59	-6.95	-9.01	-15.34	-13.33	-11.46	-11.31	-13.00	-13.56	-12.90	-14.33	-8.93	-4.33	-2.81	-1.63
θ (180°)	-5.80	-6.31	-7.79	-9.58	-13.73	-18.83	-13.50	-10.69	-8.97	-7.51	-5.62	-3.18	-2.35	-3.64	-6.77	-11.41	-16.80	-16.76	-12.15	-8.74	-7.05	-5.72	-5.22	-5.41	-5.80

Ant.	No.4																								
Freq. (MHz)	5250																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	-4.30	-5.19	-4.88	-3.54	-2.18	-0.44	-0.24	0.57	-0.13	-0.57	-2.02	-3.43	-4.72	-4.98	-4.49	-3.27	-2.12	-1.08	-0.20	-0.02	0.02	-0.49	-1.30
θ (15°)	-3.43	-3.50	-2.09	-1.19	-0.61	0.01	0.92	0.73	0.97	-0.07	-1.64	-3.61	-5.20	-6.92	-7.07	-5.59	-3.61	-2.74	-2.36	-2.38	-2.70	-3.91	-5.02	-5.38	-3.43
θ (30°)	-5.48	-2.51	-1.00	-0.53	0.51	1.61	2.48	2.38	1.95	-0.12	-0.23	-1.54	-3.44	-6.00	-6.98	-7.09	-5.80	-4.20	-3.60	-3.36	-4.32	-4.80	-7.48	-8.08	-5.48
θ (45°)	-9.63	-4.25	-2.04	-0.03	1.07	1.82	1.84	1.84	1.50	-0.44	-0.65	-1.96	-3.48	-4.89	-7.43	-6.20	-5.75	-3.76	-3.53	-4.60	-7.28	-9.87	-15.30	-12.33	-9.63
θ (60°)	-10.02	-8.91	-8.20	-3.06	-0.97	0.15	0.24	0.47	-0.18	-1.64	-4.92	-5.48	-7.19	-9.17	-8.55	-8.40	-5.82	-6.54	-8.19	-9.38	-8.20	-9.00	-16.55	-24.05	-10.02
θ (75°)	-9.55	-6.53	-3.43	-1.04	0.22	-0.51	0.07	0.08	-0.36	-0.90	-2.34	-1.20	-5.07	-6.89	-10.31	-11.31	-10.14	-12.58	-11.54	-10.15	-11.32	-9.66	-31.90	-15.58	-9.55
θ (90°)	-11.98	-8.90	-9.32	-2.55	-0.47	1.40	1.56	0.93	0.17	0.08	-4.56	-3.40	-4.93	-8.21	-10.17	-9.85	-8.95	-11.82	-19.15	-22.23	-13.55	-10.39	-13.43	-18.86	-11.98
θ (105°)	-6.26	-2.88	-2.85	0.44	0.88	2.37	[2.56]	2.03	2.10	0.28	0.40	0.48	-2.12	-2.28	-5.91	-11.11	-11.06	-11.32	-20.20	-21.42	-21.70	-19.47	-19.51	-12.11	-6.26
θ (120°)	-4.66	-5.42	-2.55	-0.91	1.10	1.38	1.55	2.09	1.77	0.61	-1.18	-0.54	-0.85	-3.39	-3.78	-5.43	-5.94	-12.49	-15.13	-8.61	-6.22	-6.30	-6.87	-4.35	-4.66
θ (135°)	-7.20	-10.96	-10.02	-6.72	-5.88	-3.70	-3.60	-4.01	-5.43	-6.87	-8.31	-4.49	-7.55	-8.32	-5.82	-5.85	-11.30	-9.88	-5.79	-4.65	-4.81	-4.01	-5.00	-4.86	-7.20
θ (150°)	-7.85	-9.93	-11.90	-14.95	-11.85	-15.17	-16.34	-13.90	-10.66	-9.29	-8.35	-10.66	-11.56	-12.95	-7.96	-8.94	-19.27	-11.06	-6.22	-5.22	-5.05	-2.96	-1.42	-4.39	-7.85
θ (165°)	-7.56	-7.84	-7.15	-9.28	-17.07	-17.16	-14.81	-14.46	-19.95	-25.28	-15.13	-10.62	-9.32	-8.30	-7.92	-10.77	-18.74	-11.37	-8.40	-8.31	-9.18	-8.91	-7.56	-7.28	-7.56
θ (180°)	-18.10	-13.88	-9.37	-6.83	-5.65	-4.56	-5.06	-6.59	-9.32	-13.55	-12.65	-15.20	-17.31	-12.20	-9.77	-8.31	-7.98	-6.76	-6.61	-7.05	-8.76	-11.52	-15.09	-20.20	-18.10
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	-0.34	-0.09	-0.28	-0.89	-2.28	-3.81	-6.16	-7.48	-6.65	-5.23	-2.68	-1.62	-0.59	-0.45	-0.54	-1.51	-2.47	-4.08	-5.39	-6.53	-6.24	-4.81	-3.21
θ (15°)	-0.06	0.35	-0.33	-1.13	-1.94	-3.62	-5.92	-8.80	-7.01	-4.87	-2.57	-1.89	-1.04	-1.24	-1.91	-2.95	-4.90	-7.16	-8.94	-7.70	-5.60	-3.15	-1.49	-0.66	-0.06
θ (30°)	[1.03]	0.63	0.09	-0.23	-0.88	-2.77	-6.36	-11.80	-10.63	-7.75	-5.56	-1.97	-1.44	-1.84	-2.74	-1.96	-3.60	-6.37	-8.83	-8.22	-4.78	-2.56	-0.25	-0.12	1.03
θ (45°)	0.57	0.39	0.21	-0.11	-2.18	-5.40	-9.79	-14.15	-13.68	-8.92	-7.71	-3.38	-2.56	-2.89	-2.52	-3.66	-5.22	-7.91	-14.60	-9.42	-4.58	-1.72	-1.07	-0.07	0.57
θ (60°)	-1.77	-2.47	-1.75	-1.14	-3.46	-5.73	-8.25	-10.80	-13.37	-17.82	-13.92	-12.21	-9.15	-8.81	-8.63	-7.75	-5.09	-4.45	-4.76	-7.19	-10.96	-5.87	-3.67	-3.63	-1.77
θ (75°)	-2.81	-2.91	-3.66	-4.68	-4.75	-7.66	-10.32	-12.01	-13.01	-13.02	-18.74	-12.80	-16.20	-20.54	-19.61	-15.72	-9.85	-9.18	-11.67	-13.47	-12.23	-7.12	-4.58	-4.41	-2.81
θ (90°)	-1.05	-2.52	-1.48	-2.54	-5.96	-9.92	-11.95	-16.45	-17.57	-10.39	-11.05	-9.33	-12.56	-11.77	-13.11	-13.74	-7.28	-12.80	-4.00	-6.51	-7.82	-7.55	-3.70	-3.29	-1.05
θ (105°)	-2.54	-3.05	-2.79	-4.42	-8.42	-14.14	-21.68	-26.56	-15.05	-8.97	-11.51	-9.10	-6.81	-8.46	-8.82	-10.44	-12.22	-6.44	-2.25	-6.41	-9.73	-8.33	-8.89	-6.38	-2.54
θ (120°)	-4.01	-3.88	-4.16	-4.29	-6.45	-12.17	-25.18	-21.26	-9.48	-6.10	-7.53	-6.02	-6.25	-9.27	-15.36	-13.46	-14.46	-15.71	-8.99	-7.29	-10.15	-8.94	-6.83	-5.33	-4.01
θ (135°)	-3.61	-6.35	-8.16	-7.55	-13.30	-28.42	-17.96	-12.35	-10.65	-7.53	-7.96	-8.29	-5.41	-7.22	-5.21	-5.82	-9.08	-13.70	-11.07	-7.18	-6.02	-5.56	-6.02	-3.96	-3.61
θ (150°)	-2.68	-4.05	-8.28	-11.19	-14.18	-17.19	-22.30	-22.87	-28.90	-13.97	-5.46	-5.72	-6.73	-3.04	-4.69	-7.76	-8.43	-11.45	-12.78	-10.41	-8.42	-8.07	-4.64	-2.84	-2.68
θ (165°)	-1.67	-1.43	-3.92	-8.97	-14.93	-23.63	-27.76	-22.17	-16.40	-15.07	-12.61	-9.74	-10.91	-18.53	-16.35	-12.36	-13.74	-16.90	-17.67	-20.15	-17.99	-10.09	-5.18	-3.54	-1.67
θ (180°)	-6.29	-6.79	-7.89	-9.98	-11.65	-20.53	-20.09	-14.07	-11.16	-11.04	-6.46	-4.21	-3.67	-4.81	-6.93	-10.09	-16.21	-21.63	-17.19	-12.61	-10.03	-8.15	-7.16	-6.79	-6.29

Ant.	No.4																								
Freq. (MHz)	5350																								
Polarity	Theta																								
dB	Phi																								
	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
θ (0°)	-3.90	-5.53	-6.16	-4.64	-2.31	-1.06	0.44	0.51	1.10	0.48	-0.04	-1.63	-3.45	-4.96	-5.15	-4.31	-2.52	-1.20	-0.18	0.52	0.76	0.53	-0.16	-1.32	-3.90
θ (15°)	-4.16	-4.88	-3.33	-2.57	-1.15	0.17	0.69	1.00	0.69	0.46	-0.62	-2.22	-4.39	-6.59	-6.75	-5.13	-4.03	-2.94	-2.11	-1.94	-2.27	-2.07	-2.73	-2.90	-4.16
θ (30°)	-4.39	-3.81	-2.82	-1.80	-0.66	1.13	1.47	1.66	1.07	0.48	-0.93	-1.61	-3.29	-5.32	-7.48	-7.76	-7.01	-6.07	-4.32	-3.61	-3.37	-4.02	-7.41	-8.11	-4.39
θ (45°)	-9.35	-5.54	-2.45	-0.44	0.87	1.80	[2.28]	1.73	1.21	0.81	-1.39	-1.95	-3.33	-4.49	-6.61	-8.35	-5.14	-4.14	-3.98	-4.30	-6.31	-9.72	-9.79	-10.96	-9.35
θ (60°)	-13.05	-8.15	-9.60	-3.17	-0.94	-0.37	0.06	0.14	0.34	-0.43	-4.62	-7.07	-7.76	-8.62	-10.43	-7.45	-5.30	-7.38	-9.70	-9.53	-8.47	-11.14	-16.60	-18.27	-13.05
θ (75°)	-13.52	-8.84	-4.33	-1.45	-0.85	-0.55	-0.04	0.07	-0.22	-1.81	-3.39	-2.21	-4.88	-8.75	-9.95	-7.62	-10.44	-11.65	-10.84	-11.44	-12.28	-10.45	-35.31	-21.88	-13.52
θ (90°)	-15.09	-10.58	-9.25	-3.04	-0.85	0.33	0.31	0.80	0.42	-0.41	-4.54	-4.39	-6.36	-9.52	-11.92	-8.47	-6.23	-11.45	-15.32	-22.25	-10.43	-10.04	-12.12	-19.35	-15.09
θ (105°)	-10.70	-5.09	-3.56	-0.49	-0.11	1.73	1.78	0.72	0.60	-0.69	-1.79	-0.90	-2.72	-3.40	-6.29	-8.68	-11.73	-11.99	-20.02	-16.60	-25.88	-18.79	-20.34	-15.42	-10.70
θ (120°)	-6.78	-5.77	-3.31	-1.28	0.69	0.83	1.03	1.35	1.27	0.65	-2.44	-1.37	-2.77	-4.22	-5.16	-5.21	-5.70	-10.18	-22.47	-8.49	-6.22	-6.79	-6.86	-4.83	-6.78
θ (135°)	-8.34	-11.62	-6.61	-6.49	-3.80	-2.73	-3.18	-2.99	-4.53	-7.31	-9.29	-5.89	-6.65	-10.13	-6.90	-6.85	-11.66	-11.77	-6.12	-5.47	-4.94	-3.00	-3.67	-4.99	-8.34
θ (150°)	-8.11	-10.05	-12.04	-14.48	-16.75	-22.70	-17.92	-16.94	-15.40	-13.18	-9.87	-11.04	-12.29	-16.21	-11.92	-10.43	-20.29	-10.55	-5.98	-4.79	-4.47	-1.92	-1.17	-4.31	-8.11
θ (165°)	-7.04	-9.91	-10.89	-15.57	-24.18	-15.35	-12.84	-13.28	-15.00	-23.37	-28.18	-14.83	-10.90	-9.47	-9.74	-12.49	-41.92	-13.25	-8.95	-8.82	-10.16	-8.63	-6.21	-5.37	-7.04
θ (180°)	-19.08	-19.05	-13.59	-9.65	-7.69	-5.91	-5.81	-7.05	-9.18	-10.98	-11.36	-12.20	-15.69	-15.93	-13.37	-11.32	-10.20	-8.56	-8.21	-7.85	-9.16	-10.51	-13.13	-15.70	-19.08
Polarity	Phi																								
dB	Phi																								
	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
θ (0°)	-0.16	0.47	0.77	0.43	-0.50	-2.42	-4.66	-7.82	-8.03	-5.61	-3.45	-1.79	-0.80	0.02	0.10	-0.05	-0.87	-2.15	-4.14	-6.50	-7.85	-6.03	-3.54	-1.76	-0.16
θ (15°)	0.14	0.61	0.31	0.03	-1.14	-3.58	-6.18	-8.43	-8.16	-4.54	-3.00	-1.31	-0.59	-0.06	-0.38	-1.58	-3.22	-5.70	-7.08	-6.87	-4.53	-3.03	-1.80	-1.29	0.14
θ (30°)	0.24	0.74	0.72	0.34	-0.85	-3.49	-7.30	-9.08	-8.82	-5.81	-5.69	-1.60	-1.48	-0.63	-2.08	-2.81	-3.48	-5.49	-8.58	-9.16	-7.10	-3.59	-1.41	-0.04	0.24
θ (45°)	0.54	0.29	[0.82]	-0.17	-2.82	-5.38	-7.57	-9.20	-9.83	-8.38	-6.49	-3.69	-2.78	-2.52	-1.88	-3.04	-4.23	-6.81	-10.02	-8.07	-5.29	-3.47	-0.94	-0.80	0.54
θ (60°)	-2.07	-1.37	-1.20	-1.64	-3.37	-5.97	-6.74	-8.66	-10.34	-13.16	-14.91	-11.82	-8.24	-8.36	-6.56	-7.37	-4.44	-4.33	-4.52	-7.60	-12.85	-5.83	-3.80	-3.29	-2.07
θ (75°)	-3.81	-2.76	-2.44	-3.92	-5.01	-7.09	-8.81	-10.22	-10.22	-13.09	-15.89	-14.75	-21.89	-16.73	-18.01	-13.13	-9.47	-7.25	-10.97	-13.44	-13.98	-8.23	-5.67	-5.40	-3.81
θ (90°)	-1.49	-1.89	-1.76	-2.92	-4.90	-8.28	-9.27	-13.81	-18.23	-11.80	-8.29	-11.50	-14.16	-12.60	-15.47	-12.78	-8.81	-19.48	-5.19	-4.75	-10.36	-9.17	-5.13	-3.03	-1.49
θ (105°)	-1.97	-2.02	-2.19	-4.23	-8.06	-13.54	-16.92	-24.80	-17.34	-10.12	-10.87	-7.01	-6.10	-8.19	-7.95	-10.55	-10.37	-8.81	-2.51	-6.00	-10.91	-8.03	-6.91	-5.63	-1.97
θ (120°)	-4.02	-2.84	-3.39	-3.20	-5.34	-10.82	-18.80	-21.05	-10.60	-4.55	-5.07	-5.22	-5.49	-8.59	-12.54	-14.38	-12.70	-11.18	-10.48	-8.03	-12.13	-10.98	-7.11	-5.35	-4.02
θ (135°)	-2.98	-5.09	-5.90	-7.51	-11.56	-20.26	-17.09	-10.19	-7.78	-6.73	-5.76	-8.98	-5.28	-6.64	-5.23	-4.54	-6.90	-10.58	-12.00	-8.72	-8.75	-7.37	-5.73	-4.03	-2.98
θ (150°)	-2.94	-4.31	-7.54	-10.00	-12.02	-14.93	-13.78	-12.59	-13.10	-16.78	-6.68	-4.41	-8.08	-2.93	-3.62	-7.44	-8.19	-9.61	-14.45	-13.37	-11.61	-11.49	-4.83	-3.60	-2.94
θ (165°)	-2.07	-1.67	-4.00	-9.27	-13.33	-15.50	-19.74	-17.87	-16.70	-15.96	-14.60	-12.81	-13.22	-20.15	-20.10	-14.59	-14.76	-18.49	-27.68	-27.54	-23.76	-10.97	-6.77	-4.63	-2.07
θ (180°)	-8.07	-7.70	-8.12	-8.75	-10.74	-13.51	-21.11	-20.14	-16.82	-13.39	-9.76	-5.41	-4.15	-4.91	-7.22	-9.80	-12.70	-18.51	-20.30	-18.56	-15.99	-11.93	-10.34	-9.23	-8.07

Ant.	No.1																								
Freq. (MHz)	5500																								
Polarity	Theta																								
dB	φ (0°)	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-16.05	-11.15	-6.80	-3.79	-3.06	-1.67	-2.24	-2.29	-3.45	-5.01	-7.74	-12.03	-18.13	-11.68	-6.50	-3.94	-2.10	-1.36	-1.25	-1.16	-2.24	-3.72	-6.21	-10.90	-16.05
θ (15°)	-6.03	-4.93	-3.39	-2.88	-1.83	-2.85	-3.02	-3.77	-4.61	-8.02	-15.09	-19.84	-13.21	-6.19	-2.15	-0.71	-0.47	-0.40	-0.33	-0.69	-2.08	-4.03	-6.61	-4.78	-6.03
θ (30°)	-1.07	-1.14	-3.04	-5.29	-6.12	-9.53	-9.90	-13.18	-14.36	-9.56	-10.61	-6.67	-7.40	-3.40	-3.23	-0.52	0.25	0.64	1.01	0.56	0.74	-0.21	-1.09	-1.45	-1.07
θ (45°)	-5.52	-12.85	-15.41	-14.80	-21.12	-22.59	-14.43	-22.83	-9.95	-11.33	-8.86	-10.75	-7.44	-3.39	-0.97	0.43	0.01	-0.49	-1.29	-1.81	-5.49	-3.99	-4.61	-4.94	-5.52
θ (60°)	-5.87	-5.78	-7.64	-13.99	-16.25	-14.46	-6.33	-11.91	-17.89	-8.29	-11.68	-6.23	-15.87	-10.34	-6.49	-4.67	-5.82	-3.27	-2.86	-3.37	-6.42	-7.29	-8.06	-17.47	-5.87
θ (75°)	-7.14	-13.77	-7.46	-12.55	-7.03	-3.70	-7.71	-8.27	-12.08	-6.12	-11.93	-10.19	-11.62	-9.16	-9.00	-9.55	-9.75	-16.83	-16.03	-19.89	-12.54	-11.82	-9.73	-11.07	-7.14
θ (90°)	-5.20	-4.53	-5.84	-13.17	-7.94	-14.19	-10.63	-22.14	-9.13	-6.86	-7.30	-9.03	-23.97	-20.69	-17.91	-13.39	-14.70	-10.02	-7.27	-4.38	-2.94	-7.62	-16.25	-19.17	-5.20
θ (105°)	-2.49	-6.50	-7.20	-10.74	-7.59	[1.68]	0.58	-12.50	-3.91	-4.27	-7.12	-3.39	-3.07	-2.33	-3.60	-9.06	-4.14	-5.07	-7.50	-6.88	-10.39	-10.19	-3.06	-3.53	-2.49
θ (120°)	-8.67	-12.59	-11.63	-14.09	-4.75	-4.90	-5.15	-1.02	-6.03	-3.68	-4.03	-6.64	-5.60	-5.48	-1.72	-2.62	-3.92	-2.44	-3.06	-3.86	-1.17	-1.91	-5.07	-2.18	-8.67
θ (135°)	-25.63	-11.88	-10.17	-11.29	-12.06	-9.11	-9.75	-7.44	-9.43	-5.44	-11.12	-30.60	-13.16	-18.31	-12.41	-1.58	-2.25	0.26	0.96	1.00	-0.07	-1.79	-10.69	-16.00	-25.63
θ (150°)	-12.07	-10.34	-10.52	-6.16	-9.83	-14.17	-10.78	-8.17	-6.80	-4.68	-4.54	-11.98	-14.84	-14.54	-12.28	-9.00	-3.99	-2.13	-1.66	-2.04	-6.99	-10.67	-11.97	-19.91	-12.07
θ (165°)	-12.70	-12.31	-13.05	-12.62	-9.96	-7.21	-6.87	-9.51	-15.92	-18.88	-11.14	-10.83	-12.31	-10.47	-8.24	-10.16	-6.90	-5.30	-5.54	-5.97	-6.49	-8.90	-13.99	-21.46	-12.70
θ (180°)	-17.57	-12.68	-10.19	-8.03	-7.59	-6.55	-6.72	-8.33	-9.39	-13.00	-18.11	-31.27	-19.57	-13.64	-10.61	-9.34	-7.30	-7.23	-7.04	-11.38	-13.24	-13.10	-14.31	-21.43	-17.57
Polarity	Phi																								
dB	φ (0°)	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-2.59	-3.33	-4.22	-6.55	-10.73	-19.50	-18.86	-9.64	-6.40	-3.69	-2.26	-1.09	-0.98	-1.07	-2.15	-3.81	-6.80	-12.19	-16.47	-12.15	-7.29	-4.46	-2.95	-2.29	-2.59
θ (15°)	-2.47	-5.19	-7.01	-10.04	-15.04	-34.94	-15.00	-9.43	-5.80	-4.67	-4.03	-2.00	-1.07	-1.19	-2.13	-4.52	-8.30	-16.10	-18.74	-10.16	-7.12	-5.22	-5.57	-1.66	-2.47
θ (30°)	-4.50	-9.66	-10.77	-15.22	-16.35	-22.86	-30.10	-24.58	-21.69	-13.85	-7.66	-7.69	-3.96	-3.02	-5.64	-5.09	-9.62	-18.48	-26.04	-12.80	-8.44	-6.47	-6.87	-2.15	-4.50
θ (45°)	-7.82	-17.42	-12.92	-14.71	-14.01	-11.19	-14.36	-15.65	-12.43	-6.32	-5.33	-5.39	-4.41	-8.98	-7.78	-9.65	-12.52	-13.64	-13.81	-14.63	-18.51	-14.98	-15.10	-14.52	-7.82
θ (60°)	-12.35	-6.47	-4.42	-4.15	1.06	-2.37	-7.06	-0.04	-1.25	-1.91	-0.93	-2.15	-1.22	-1.01	-1.07	-3.34	-7.65	-8.61	-16.02	-27.73	-25.47	-7.39	-6.83	-7.19	-12.35
θ (75°)	-1.88	-1.45	2.13	3.19	4.05	0.66	-1.33	[5.14]	0.95	3.61	1.20	1.78	1.23	0.18	-1.00	-2.40	-2.83	-7.26	-10.44	-20.82	-7.52	-5.11	-3.83	-4.54	-1.88
θ (90°)	1.87	-0.15	-2.00	-2.39	-6.49	1.23	-12.67	3.65	-5.65	-0.11	1.62	2.34	1.01	2.38	1.09	-0.93	-2.88	-5.47	-7.18	-6.27	-21.41	-6.27	-4.44	-4.97	1.87
θ (105°)	-5.25	-7.57	-9.23	-5.39	-30.49	-6.48	-7.64	-0.65	-8.38	-7.27	-2.32	-1.82	0.12	-2.87	-1.70	-3.32	-5.11	-7.74	-16.54	-12.97	-16.26	-12.27	-5.65	-8.87	-5.25
θ (120°)	-4.12	-4.46	-6.74	-6.34	-3.08	-9.77	-7.81	-4.40	-1.04	-1.35	-2.37	-3.42	0.20	-0.04	-0.87	-2.37	-6.73	-9.38	-10.82	-10.49	-10.26	-7.23	-9.15	-8.49	-4.12
θ (135°)	-1.67	-5.55	-6.54	-5.55	-6.29	-11.87	-16.36	-7.05	-5.05	-8.33	-6.04	-3.92	-1.75	-2.43	-1.56	-3.99	-8.83	-10.64	-20.35	-14.70	-8.08	-5.30	-0.50	-3.28	-1.67
θ (150°)	-3.70	-6.75	-11.82	-15.85	-17.23	-37.51	-21.64	-15.11	-11.90	-12.02	-9.88	-7.10	-9.54	-6.45	-7.20	-7.05	-8.38	-12.02	-12.83	-11.78	-12.78	-10.41	-6.43	-3.40	-3.70
θ (165°)	-8.69	-16.32	-15.97	-18.47	-16.73	-21.04	-24.92	-24.42	-16.83	-16.43	-12.01	-8.22	-5.51	-4.27	-6.82	-13.07	-12.87	-16.27	-23.96	-13.51	-8.20	-6.67	-3.54	-3.24	-8.69
θ (180°)	-4.37	-6.03	-9.92	-15.60	-18.70	-36.44	-19.03	-13.38	-9.94	-7.59	-6.07	-6.03	-6.16	-6.96	-8.13	-10.87	-14.70	-28.07	-25.81	-16.97	-16.80	-9.76	-7.47	-4.50	-4.37

Ant.	No.1																								
Freq. (MHz)	5650																								
Polarity	Theta																								
dB	φ (0°)	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-10.50	-9.71	-6.92	-5.03	-3.32	-2.48	-1.76	-2.20	-2.53	-4.14	-6.07	-8.90	-12.56	-11.18	-6.84	-3.66	-2.30	-1.16	-0.73	-1.05	-1.73	-3.50	-5.44	-8.77	-10.50
θ (15°)	-4.28	-5.49	-5.14	-4.45	-3.53	-3.16	-3.85	-4.86	-7.98	-10.55	-12.97	-17.04	-15.62	-8.53	-5.35	-3.56	-1.99	-0.77	-0.48	-0.65	-3.82	-7.64	-8.09	-3.01	-4.28
θ (30°)	-2.09	-2.24	-2.53	-5.94	-8.74	-13.46	-21.18	-14.42	-9.95	-8.24	-7.23	-8.04	-8.77	-7.69	-4.83	-2.43	-0.77	0.56	[0.90]	0.42	-0.66	-0.53	-1.70	-2.31	-2.09
θ (45°)	-5.27	-6.90	-10.63	-16.77	-19.46	-10.84	-11.17	-15.45	-11.86	-25.05	-10.96	-7.45	-4.32	-6.47	-3.05	-0.92	-2.11	-2.42	-2.27	-2.65	-8.68	-6.90	-7.17	-5.76	-5.27
θ (60°)	-5.08	-6.79	-7.78	-12.41	-17.43	-8.62	-4.33	-9.47	-22.81	-10.25	-12.84	-6.99	-11.69	-8.04	-5.37	-4.21	-3.52	-3.45	-4.16	-5.82	-6.17	-7.63	-9.23	-14.59	-5.08
θ (75°)	-4.84	-11.52	-9.83	-11.02	-8.60	-4.67	-8.02	-6.28	-13.41	-9.33	-9.04	-8.31	-8.69	-5.95	-14.19	-11.04	-11.99	-17.80	-13.85	-21.40	-25.77	-15.84	-12.84	-12.87	-4.84
θ (90°)	-6.84	-4.11	-5.44	-9.81	-7.95	-8.48	-7.08	-25.63	-13.95	-6.91	-9.13	-12.39	-12.63	-11.94	-9.33	-9.09	-6.20	-6.50	-8.95	-9.13	-3.82	-5.04	-9.14	-20.52	-6.84
θ (105°)	-2.73	-4.48	-6.13	-6.78	-6.97	0.63	0.54	-11.20	-2.80	-3.48	-3.17	-1.32	-2.07	-0.86	-7.78	-4.36	-3.27	-7.95	-15.82	-10.14	-8.12	-7.60	-5.69	-4.08	-2.73
θ (120°)	-6.36	-11.40	-14.85	-14.74	-8.80	-3.62	-2.63	-0.15	-10.06	-3.47	-3.58	-5.77	-5.12	-2.59	-1.43	-2.22	-1.24	-0.70	-0.32	-1.04	-2.55	-0.07	-5.66	-1.64	-6.36
θ (135°)	-13.04	-8.02	-6.01	-8.82	-7.83	-5.27	-6.99	-5.74	-9.54	-6.33	-6.88	-19.24	-14.44	-17.08	-6.97	-1.53	-5.32	-1.50	-0.18	0.43	-1.11	-2.83	-12.23	-14.61	-13.04
θ (150°)	-9.89	-10.85	-8.50	-5.20	-9.64	-10.91	-10.78	-7.06	-5.89	-4.27	-6.34	-11.49	-15.78	-11.41	-11.67	-5.33	-4.32	-3.08	-3.19	-3.13	-9.21	-14.25	-15.73	-24.22	-9.89
θ (165°)	-10.23	-10.74	-12.93	-12.74	-9.68	-7.99	-8.68	-11.61	-30.18	-12.68	-8.89	-10.02	-11.94	-10.20	-7.76	-12.23	-5.93	-4.40	-5.07	-5.48	-6.42	-8.25	-11.09	-12.96	-10.23
θ (180°)	-19.96	-14.84	-11.69	-9.05	-6.70	-5.31	-5.27	-5.58	-7.12	-9.03	-11.81	-16.00	-18.11	-15.75	-12.43	-9.31	-7.36	-6.20	-5.77	-10.54	-12.78	-9.36	-11.23	-13.48	-19.96
Polarity	Phi																								
dB	φ (0°)	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-1.78	-2.21	-3.60	-5.39	-8.57	-12.34	-14.34	-10.80	-6.93	-4.49	-3.21	-1.82	-1.29	-1.04	-2.02	-3.34	-5.94	-9.05	-11.55	-9.58	-6.19	-4.22	-2.53	-1.36	-1.78
θ (15°)	-2.95	-4.34	-8.38	-12.52	-17.74	-15.32	-14.03	-9.69	-10.66	-9.30	-5.64	-3.61	-1.83	-1.43	-3.18	-6.62	-9.48	-14.21	-19.89	-11.81	-9.21	-9.03	-6.33	-1.07	-2.95
θ (30°)	-6.44	-8.26	-14.75	-12.23	-11.61	-16.94	-24.49	-16.82	-16.94	-18.73	-23.05	-11.55	-7.12	-7.16	-8.90	-9.25	-10.84	-16.15	-21.31	-15.23	-13.18	-8.42	-9.69	-4.83	-6.44
θ (45°)	-11.09	-11.35	-13.44	-7.91	-19.74	-18.19	-13.80	-12.33	-4.55	-6.15	-5.68	-6.08	-14.68	-9.50	-11.01	-15.51	-10.57	-11.33	-12.26	-14.03	-30.89	-24.24	-20.07	-20.94	-11.09
θ (60°)	-13.50	-9.81	-11.71	-8.65	-3.95	-6.35	-8.07	-3.29	-4.21	-3.32	-4.31	-1.34	-2.42	-1.33	-4.30	-3.85	-5.47	-10.47	-15.21	-19.57	-12.38	-13.88	-8.87	-10.17	-13.50
θ (75°)	-2.42	-1.65	1.23	3.67	2.82	0.74	-1.92	3.85	0.81	2.44	0.89	0.87	0.71	1.32	1.06	-1.01	-3.13	-4.30	-20.69	-13.00	-10.96	-6.66	-5.25	-4.53	-2.42
θ (90°)	2.07	1.12	-0.78	-0.57	-4.21	2.62	-9.97	[4.84]	-9.13	1.55	2.22	2.74	2.82	1.48	1.08	-0.18	-2.13	-0.70	-7.69	-13.13	-7.89	-2.87	-3.41	-3.95	2.07
θ (105°)	-5.53	-7.36	-5.34	-10.46	-10.38	-11.72	-3.75	-0.66	-4.00	-4.85	-2.30	-2.09	-1.05	-1.56	-0.57	-2.98	-3.10	-0.88	-11.05	-16.81	-18.58	-11.19	-6.64	-5.63	-5.53
θ (120°)	-7.44	-5.66	-12.24	-13.96	-8.54	-10.58	-7.18	-5.75	-2.66	-4.27	-2.45	-4.53	-1.98	-1.20	-2.57	-1.41	-5.62	-7.22	-15.04	-12.02	-14.81	-14.91	-24.73	-16.71	-7.44
θ (135°)	-2.37	-5.69	-14.96	-9.66	-11.77	-12.61	-31.43	-13.28	-15.78	-7.54	-8.62	-4.96	-5.31	-4.33	-3.61	-7.26	-11.67	-10.96	-14.92	-20.59	-14.03	-5.43	-0.86	-3.46	-2.37
θ (150°)	-2.69	-4.43	-12.14	-12.11	-22.75	-23.20	-28.23	-28.31	-17.51	-13.55	-5.92	-7.32	-9.83	-6.94	-8.62	-9.15	-20.36	-27.66	-22.43	-13.03	-13.75	-11.72	-3.92	-3.26	-2.69
θ (165°)	-7.19	-12.53	-10.98	-11.29	-15.69	-16.27	-21.47	-30.29	-22.44	-19.11	-8.92	-5.24	-4.02	-4.29	-6.36	-14.55	-14.03	-19.70	-16.67	-10.86	-7.02	-5.69	-4.19	-3.01	-7.19
θ (180°)	-3.61	-4.95	-7.76	-11.02	-13.30	-14.73	-19.30	-12.33	-11.19	-7.65	-6.39	-5.40	-5.40	-5.73	-6.52	-9.26	-10.36	-15.07	-18.95	-20.99	-20.68	-9.70	-7.93	-4.65	-3.61

Ant.	No.1																								
Freq. (MHz)	5850																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-15.28	-15.30	-5.84	-2.27	0.13	1.20	1.97	1.70	1.20	-0.42	-2.51	-6.68	-18.34	-13.43	-5.49	-1.73	0.36	1.78	2.39	2.42	1.87	0.68	-1.22	-4.80
θ (15°)	-2.92	-2.50	-2.16	-2.18	-1.30	-1.08	-1.30	-1.65	-2.46	-3.32	-5.38	-5.98	-5.23	-2.75	-0.19	1.16	2.53	3.14	[3.57]	3.19	0.55	-4.70	-5.44	-1.15	-2.92
θ (30°)	-0.56	-1.19	-2.20	-4.39	-5.56	-5.65	-5.57	-5.63	-4.59	-3.40	-1.22	-2.01	-2.78	-1.36	-0.79	0.67	2.64	3.20	3.50	3.45	3.19	1.81	1.13	0.92	-0.56
θ (45°)	-5.07	-5.11	-9.47	-9.83	-9.72	-8.08	-10.30	-10.97	-11.78	-6.15	-2.66	-3.09	-2.65	-1.89	-0.62	-1.27	-0.60	-0.50	-0.42	-0.81	-7.56	-8.12	-9.00	-7.79	-5.07
θ (60°)	-5.43	-7.00	-7.56	-21.14	-12.69	-5.34	-2.77	-8.29	-24.73	-11.82	-8.62	-5.86	-6.05	-7.55	-4.56	-5.25	-6.09	-7.19	-10.77	-14.94	-13.47	-17.80	-11.58	-13.83	-5.43
θ (75°)	-4.08	-8.98	-14.00	-14.15	-7.39	-3.10	-5.40	-6.69	-19.87	-16.53	-10.82	-10.01	-8.07	-6.49	-9.71	-17.01	-12.90	-11.49	-8.97	-12.33	-11.37	-10.67	-10.17	-9.35	-4.08
θ (90°)	-7.00	-6.26	-5.61	-8.08	-13.73	-5.70	-5.61	-21.87	-11.61	-14.21	-17.50	-8.03	-12.05	-8.03	-4.04	-2.96	-2.02	-3.32	-4.52	-4.81	-5.91	-4.33	-5.93	-14.74	-7.00
θ (105°)	-2.78	-8.75	-9.26	-5.55	-10.42	0.66	-0.54	-6.99	-6.23	-6.18	-5.37	-7.66	-4.55	-0.60	-1.64	-1.52	-5.02	-4.11	-10.80	-14.83	-10.62	-7.12	-3.96	-8.68	-2.78
θ (120°)	-9.62	-24.05	-13.48	-13.45	-9.24	-8.87	-4.91	-1.57	-19.53	-10.19	-7.90	-13.83	-10.08	-9.31	-5.33	-3.61	-1.61	-2.16	-2.22	-2.07	-2.51	-4.01	-12.18	-7.72	-9.62
θ (135°)	-6.53	-9.83	-4.87	-7.73	-12.90	-8.26	-12.63	-9.69	-10.76	-5.54	-4.63	-9.17	-6.94	-12.60	-20.52	-11.00	-11.75	-6.78	-5.43	-5.38	-5.63	-20.59	-17.32	-6.55	-6.53
θ (150°)	-8.71	-15.94	-29.37	-12.34	-14.45	-18.07	-11.46	-7.79	-7.17	-6.26	-9.52	-5.39	-6.70	-8.04	-6.89	-8.92	-9.65	-9.43	-9.32	-10.68	-14.98	-14.63	-10.84	-13.92	-8.71
θ (165°)	-13.83	-14.78	-14.58	-14.78	-18.28	-16.70	-15.16	-19.00	-24.96	-11.77	-7.63	-5.75	-4.13	-3.96	-4.91	-10.89	-4.93	-4.82	-5.47	-5.55	-5.61	-5.74	-8.84	-11.99	-13.83
θ (180°)	-13.78	-12.63	-10.16	-8.12	-5.73	-4.98	-4.26	-4.51	-5.49	-6.93	-9.16	-12.97	-16.14	-14.03	-9.93	-7.09	-5.73	-4.76	-3.97	-10.17	-11.93	-7.71	-9.09	-10.74	-13.78
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	1.87	1.95	1.33	-0.18	-2.60	-8.44	-20.98	-11.53	-4.36	-1.29	0.64	1.95	2.25	2.36	1.42	-0.04	-2.23	-6.03	-14.56	-13.05	-5.88	-2.03	0.15	1.52
θ (15°)	0.32	0.15	-1.60	-4.25	-8.19	-14.25	-36.59	-12.47	-6.73	-3.09	-2.23	-1.64	-0.33	-0.69	-2.43	-4.73	-6.51	-10.11	-11.13	-6.74	-5.05	-7.62	-6.04	0.40	0.32
θ (30°)	-6.18	-5.20	-7.05	-11.08	-16.33	-29.58	-17.25	-15.26	-14.60	-14.70	-14.12	-15.62	-12.12	-11.27	-9.39	-10.39	-13.37	-18.50	-11.47	-8.15	-7.60	-10.86	-6.39	-8.94	-6.18
θ (45°)	-17.07	-9.98	-8.50	-4.47	-9.72	-19.68	-10.93	-6.14	-2.00	-1.92	-2.62	-4.93	-6.97	-7.79	-8.67	-13.37	-11.35	-13.92	-15.70	-16.30	-20.91	-24.03	-23.85	-21.77	-17.07
θ (60°)	-5.08	-6.97	-8.43	-4.18	-8.08	-9.12	-11.39	-19.27	-1.18	-1.13	0.20	1.00	0.41	-0.16	-2.24	-3.67	-5.75	-6.68	-8.24	-11.75	-11.87	-15.03	-8.17	-13.38	-5.08
θ (75°)	-2.27	-2.98	-1.68	0.88	0.12	0.30	-9.81	-2.32	1.49	1.23	1.27	0.66	1.61	0.46	0.05	0.43	-3.82	-7.85	-31.02	-16.70	-8.49	-7.09	-7.12	-2.27	
θ (90°)	1.51	2.54	-1.23	-1.04	0.21	3.15	-5.85	[5.65]	-9.49	0.80	1.83	2.23	3.74	2.98	3.34	1.64	1.08	-3.46	-8.12	-18.99	-6.61	-6.82	-3.35	-5.67	1.51
θ (105°)	-4.60	-4.76	-7.68	-5.73	-7.67	-8.66	-2.11	-1.47	-0.67	-2.66	-0.20	0.55	1.06	1.49	1.02	-0.33	-0.26	-2.52	-13.99	-20.78	-8.72	-4.11	-4.72	-4.60	-4.60
θ (120°)	-15.19	-8.74	-19.57	-16.06	-11.30	-19.12	-5.66	-4.36	-2.23	-6.79	-7.14	-7.34	-5.59	-4.35	-3.58	-4.72	-4.87	-8.91	-15.02	-13.59	-10.15	-12.04	-19.69	-10.10	-15.19
θ (135°)	-5.09	-9.42	-14.73	-14.59	-18.99	-24.44	-18.13	-17.04	-13.59	-12.95	-10.60	-9.35	-11.54	-7.87	-9.63	-8.67	-14.47	-11.08	-15.05	-21.17	-10.98	-5.99	-4.99	-2.90	-5.09
θ (150°)	-3.37	-7.23	-6.99	-7.76	-13.22	-19.29	-13.74	-10.66	-10.95	-6.78	-8.77	-8.45	-11.15	-12.78	-11.91	-16.79	-13.83	-17.71	-35.27	-16.26	-15.96	-16.21	-9.49	-6.89	-3.37
θ (165°)	-7.72	-12.72	-8.98	-8.64	-13.99	-12.96	-14.62	-16.03	-13.21	-11.03	-7.95	-6.79	-5.69	-6.97	-10.18	-16.44	-13.36	-15.35	-16.07	-15.40	-10.26	-8.23	-7.79	-8.85	-7.72
θ (180°)	-3.63	-5.09	-7.20	-9.94	-12.11	-14.59	-17.29	-15.85	-11.42	-7.95	-7.00	-5.45	-4.63	-4.92	-5.76	-6.98	-9.22	-11.02	-13.60	-25.41	-20.87	-9.61	-6.08	-4.09	-3.63

Ant.	No.2																								
Freq. (MHz)	5500																								
Polarity	Theta																								
dB	Phi																								
	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
θ (0°)	-10.33	-6.72	-3.55	-1.06	0.61	1.61	1.80	1.40	0.64	-0.87	-3.42	-7.44	-9.61	-6.09	-2.60	-0.24	1.16	2.04	2.15	1.81	0.90	-1.43	-4.84	-9.43	-10.33
θ (15°)	-4.98	-4.57	-5.41	-5.21	-4.42	-4.09	-4.17	-4.89	-6.47	-10.02	-16.74	-21.64	-10.22	-6.59	-5.90	-4.78	-2.48	-1.15	-0.89	-1.73	-2.94	-4.54	-4.36	-4.83	-4.98
θ (30°)	-3.47	-6.95	-6.71	-2.26	-0.41	-0.56	-0.75	-0.27	-0.13	-2.48	-5.30	-6.33	-8.29	-9.41	-6.98	-7.76	-11.27	-9.94	-8.89	-9.88	-15.50	-17.24	-11.61	-9.25	-3.47
θ (45°)	-6.03	-5.62	-1.06	-1.15	-2.72	-2.77	-2.25	-5.35	-4.01	-1.51	-4.08	-4.22	-6.21	-7.06	-19.58	-10.09	-11.59	-4.45	-1.52	-3.93	-5.60	-14.46	-11.04	-10.92	-6.03
θ (60°)	-3.47	-4.66	-4.21	-4.51	-2.41	0.40	0.79	1.50	-1.91	-1.26	-1.67	-3.63	-4.07	-5.82	-9.82	-6.19	-1.71	2.18	3.92	[4.18]	2.96	-5.01	-13.55	-14.85	-3.47
θ (75°)	-1.94	-5.61	-7.92	-2.93	-0.54	0.86	-0.23	-5.90	-2.03	-3.52	0.67	-1.61	-4.29	-8.68	-3.32	-2.83	-0.15	1.44	2.65	2.58	1.77	-3.39	-9.06	-9.38	-1.94
θ (90°)	-13.39	-12.16	-1.80	-0.34	-3.80	-2.21	-0.10	-6.61	-9.33	0.40	-2.20	-2.49	-2.91	-5.07	-1.79	-1.47	-6.80	-6.62	-3.71	-0.99	-0.90	-0.48	-6.38	-4.25	-13.39
θ (105°)	-4.78	-1.93	-5.09	-6.55	-8.01	-2.01	-0.49	-4.92	-14.64	-0.34	1.62	-0.43	-1.60	-4.03	0.70	-1.51	-15.32	-3.96	-0.32	-0.51	-2.68	-3.52	-3.33	-5.73	-4.78
θ (120°)	-6.73	-1.91	-3.44	-6.54	-4.86	-6.50	-18.20	-4.01	-2.74	-1.65	-3.89	-2.66	-5.24	-14.84	-8.74	-1.26	-6.86	-16.07	-8.93	-8.37	-4.42	-1.47	-5.10	-3.01	-6.73
θ (135°)	0.21	-2.20	-4.66	-4.49	-7.90	-20.01	-16.00	-4.30	-1.11	-3.15	-4.81	-5.98	-6.54	-3.12	-1.21	-1.28	-5.61	-10.34	-10.85	-8.83	-4.54	-1.02	-0.44	-2.71	0.21
θ (150°)	-0.80	-0.20	-4.44	-7.19	-5.20	-9.54	-14.61	-13.02	-7.38	-4.14	-4.69	-1.12	-0.82	-5.15	-1.99	-4.60	-6.71	-10.01	-7.66	-7.00	-10.25	-12.26	-7.11	-9.68	-0.80
θ (165°)	-6.35	-7.34	-9.13	-14.31	-26.30	-20.57	-16.31	-13.73	-9.79	-6.00	-2.34	-0.35	-0.46	-3.60	-7.87	-12.13	-18.08	-10.03	-7.13	-5.99	-5.81	-6.81	-7.13	-6.54	-6.35
θ (180°)	-3.56	-4.82	-7.13	-10.30	-14.20	-13.66	-10.95	-8.91	-7.02	-5.26	-4.48	-4.21	-4.47	-5.80	-7.72	-10.44	-16.91	-16.01	-13.13	-9.87	-6.67	-4.69	-3.13	-2.51	-3.56
Polarity	Phi																								
dB	Phi																								
	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
θ (0°)	1.00	0.36	-0.84	-2.93	-6.72	-12.29	-12.25	-5.90	-1.93	-0.10	1.32	2.14	[2.45]	2.15	0.98	-0.84	-3.81	-8.43	-11.23	-6.58	-3.07	-0.74	0.77	1.36	1.00
θ (15°)	1.11	-4.07	-9.61	-11.74	-15.52	-21.10	-16.11	-11.06	-9.07	-8.03	-3.87	0.20	2.17	1.12	-1.15	-3.14	-5.80	-10.57	-16.48	-9.25	-5.69	-2.91	0.39	2.25	1.11
θ (30°)	0.79	-5.80	-6.79	-6.19	-6.71	-9.12	-11.78	-16.12	-18.92	-11.18	-8.82	-6.07	1.53	-1.59	-3.35	-8.57	-20.58	-17.62	-22.91	-17.98	-12.20	-6.41	-2.43	-1.36	0.79
θ (45°)	-1.49	-10.63	-8.68	-6.18	-13.78	-13.68	-15.13	-16.24	-9.11	-13.43	-13.29	-9.88	0.43	-6.85	-7.88	-6.26	-7.37	-8.86	-10.62	-8.76	-14.62	-8.00	-2.15	-3.92	-1.49
θ (60°)	-5.40	-20.65	-3.51	-4.19	-2.20	-2.57	-9.65	-10.04	-2.92	-12.70	-8.59	-23.13	-5.07	-6.64	-8.70	-4.41	-2.71	-2.14	-7.61	-13.26	-2.58	-9.11	-6.55	-4.20	-5.40
θ (75°)	-4.49	-10.86	-2.33	-11.41	-5.28	-10.87	-15.09	-9.45	-7.52	-16.31	-10.44	-21.25	-4.02	-6.33	-5.74	-5.89	-1.00	-3.32	-12.86	-8.56	-1.57	-4.77	-6.22	-5.16	-4.49
θ (90°)	-11.54	-25.43	-3.54	-12.98	-2.43	-4.03	-24.68	-11.16	-10.01	-6.07	-8.46	-10.56	-7.88	-10.19	-8.70	-6.49	-1.25	-5.36	-13.07	-4.31	-3.74	-0.81	-6.84	-4.92	-11.54
θ (105°)	-10.77	-13.34	-0.35	-3.09	0.10	-1.71	-9.73	-3.39	-22.19	-14.31	-3.93	-37.56	-4.78	-8.43	-8.16	-4.44	-2.06	-11.21	-13.53	-10.71	-2.49	-1.81	-16.76	-10.49	-10.77
θ (120°)	-16.79	-18.87	-11.38	-2.56	-2.37	-8.15	-7.85	0.84	-0.81	-7.21	-7.08	-14.69	-6.60	-10.13	-9.33	-3.94	-0.53	-2.25	-10.29	-7.31	-0.15	-0.06	-9.12	-8.99	-16.79
θ (135°)	-8.09	-13.31	-9.63	-1.50	-2.63	-12.71	-4.25	0.55	1.23	0.10	-6.14	-9.60	-5.74	-8.65	-3.90	-0.56	-1.01	-1.86	-10.17	-7.26	0.15	-0.02	-9.32	-9.30	-8.09
θ (150°)	-14.65	-11.48	-9.58	-7.54	-7.28	-9.90	-17.56	-5.75	-2.65	-2.37	-4.98	-36.64	-6.17	-4.15	-4.82	0.31	0.43	-0.64	-4.86	-13.33	-10.47	-9.26	-5.50	-10.29	-14.65
θ (165°)	-21.40	-17.55	-10.83	-7.99	-8.66	-9.50	-9.77	-8.48	-8.71	-9.67	-12.64	-21.88	-8.77	-4.08	-3.62	-2.64	-2.47	-4.17	-6.59	-13.35	-27.70	-27.43	-19.90	-15.34	-21.40
θ (180°)	-11.61	-8.30	-6.43	-5.88	-5.53	-5.62	-5.51	-6.19	-8.08	-12.76	-18.12	-21.36	-14.02	-9.10	-6.66	-6.09	-5.69	-5.52	-6.72	-7.99	-8.43	-10.35	-12.87	-20.72	-11.61

Ant.	No.2																								
Freq. (MHz)	5650																								
Polarity	Theta																								
dB	φ																								
	(0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-10.95	-11.26	-8.13	-4.73	-2.77	-1.43	-0.82	-0.66	-1.39	-2.96	-5.12	-8.74	-16.13	-13.04	-7.10	-3.90	-1.94	-1.00	-0.27	-0.18	-0.78	-1.77	-3.08	-6.06	-10.95
θ (15°)	-6.92	-6.71	-9.93	-12.43	-13.85	-13.12	-12.61	-13.17	-11.57	-12.58	-14.33	-16.35	-18.51	-12.72	-9.88	-5.40	-2.87	-1.88	-2.01	-2.60	-4.81	-8.56	-11.71	-11.60	-6.92
θ (30°)	-3.79	-5.09	-12.01	-8.94	-4.92	-2.68	-1.71	-1.22	-1.29	-4.16	-5.47	-8.40	-18.70	-22.47	-12.00	-10.57	-16.69	-11.86	-10.25	-9.78	-13.11	-19.07	-19.14	-15.96	-3.79
θ (45°)	-4.62	-15.59	-5.69	-2.59	-3.16	-5.70	-7.09	-2.09	-0.35	-5.50	-7.60	-17.16	-19.80	-10.17	-13.77	-7.86	-0.74	0.84	-0.94	-11.12	-12.11	-6.93	-15.51	-4.62	
θ (60°)	-6.67	-7.28	-2.96	-1.84	-2.49	1.25	1.78	1.38	-2.01	-0.77	-0.08	-2.56	-5.30	-8.03	-4.03	-5.81	-0.06	2.68	4.19	[4.87]	3.73	-2.44	-33.27	-12.87	-6.67
θ (75°)	-3.54	-3.79	-8.76	-4.63	-0.30	0.05	-2.44	-4.23	-2.74	-2.80	0.03	-3.10	-8.31	-5.49	-4.11	-2.84	-1.50	0.75	1.87	2.35	1.02	-4.02	-9.75	-12.90	-3.54
θ (90°)	-6.20	-9.17	-2.29	-0.35	-2.38	-3.98	-1.85	-9.72	-7.50	1.39	-0.77	-0.85	-3.09	-3.53	0.01	-1.83	-6.05	-5.44	-5.55	-4.17	-2.31	-1.80	-5.76	-9.35	-6.20
θ (105°)	-11.25	-1.83	-2.21	-3.53	-7.72	-1.78	-2.24	-3.94	-15.45	-0.44	1.30	-0.87	-3.14	-3.63	-1.72	-3.91	-12.54	-7.37	-3.94	-2.74	-3.15	-3.64	-3.99	-10.50	-11.25
θ (120°)	-12.49	-1.81	-1.57	-5.03	-6.91	-9.59	-15.40	-3.21	-3.63	-2.28	-2.82	-0.72	-1.31	-3.54	-3.00	-3.78	-6.44	-15.94	-14.20	-9.52	-3.77	-0.97	-4.61	-7.31	-12.49
θ (135°)	-3.98	0.98	-0.85	-1.63	-9.17	-22.51	-16.26	-3.44	-0.08	-1.10	-5.66	-5.64	-5.59	-3.79	-2.04	-3.78	-7.60	-8.29	-7.67	-6.48	-4.99	-1.95	-2.07	-5.10	-3.98
θ (150°)	-7.64	-2.03	0.16	-2.87	-4.95	-11.18	-16.76	-16.46	-7.44	-4.25	-3.18	-1.14	-2.84	-2.48	-0.32	-2.24	-5.74	-12.56	-7.68	-6.39	-9.97	-14.76	-13.29	-9.59	-7.64
θ (165°)	-14.13	-12.04	-10.58	-12.07	-16.63	-14.31	-14.10	-19.99	-14.26	-6.90	-2.43	-1.36	-2.24	-4.38	-5.75	-7.95	-19.89	-13.83	-7.92	-6.13	-6.10	-8.09	-9.40	-10.06	-14.13
θ (180°)	-5.93	-7.37	-10.00	-14.62	-19.67	-19.05	-15.20	-10.80	-8.31	-6.84	-6.27	-6.52	-6.72	-7.61	-9.44	-13.21	-20.05	-18.94	-15.45	-11.26	-8.51	-6.16	-4.79	-4.26	-5.93
Polarity	Phi																								
dB	φ																								
	(0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
φ (0°)	-1.48	-1.65	-2.33	-3.73	-6.32	-11.30	-16.09	-12.77	-6.94	-3.61	-1.92	-0.80	-0.34	-0.40	-1.06	-2.90	-5.20	-9.25	-14.37	-13.74	-8.14	-4.66	-2.67	-1.54	-1.48
φ (15°)	-1.07	-4.88	-12.21	-18.62	-20.97	-23.46	-23.08	-21.94	-24.91	-11.89	-6.13	-2.10	-0.76	-2.13	-4.64	-6.67	-10.86	-12.57	-9.75	-7.13	-5.51	-3.59	-1.94	-0.71	-1.07
φ (30°)	-0.87	-7.87	-10.73	-7.49	-5.06	-6.65	-8.73	-12.03	-26.55	-19.78	-15.02	-4.46	-1.26	-5.51	-7.57	-14.41	-9.04	-9.97	-14.92	-18.13	-10.26	-6.34	-3.77	-4.08	-0.87
φ (45°)	-1.57	-8.90	-7.25	-5.47	-9.24	-28.30	-18.00	-15.11	-11.55	-25.36	-17.30	-5.92	-3.86	-10.57	-16.64	-4.64	-6.04	-5.20	-7.56	-6.31	-9.22	-7.49	-3.63	-3.64	-1.57
φ (60°)	-8.25	-19.68	-8.19	-3.49	-6.40	-5.33	-13.54	-4.83	-3.86	-9.98	-10.45	-15.86	-5.11	-11.19	-6.67	-6.68	-1.01	-3.34	-7.14	-8.93	-2.09	-3.15	-4.15	-2.42	-8.25
φ (75°)	-5.51	-20.73	-2.11	-7.50	-7.37	-16.05	-13.92	-13.08	-4.51	-24.22	-12.65	-14.24	-6.05	-9.04	-4.79	-3.67	-3.28	-7.20	-11.91	-8.35	-2.61	-2.88	-6.61	-4.75	-5.51
φ (90°)	-13.91	-13.75	-6.64	-10.16	-3.68	-3.10	-9.36	-2.97	-6.28	-14.45	-9.93	-17.27	-9.75	-10.50	-7.14	-3.91	-3.16	-7.17	-12.81	-2.46	-1.10	0.15	-8.09	-3.91	-13.91
φ (105°)	-12.83	-17.62	-2.24	-6.21	0.01	-4.64	-6.02	-0.20	-13.17	-20.29	-8.62	-18.57	-6.84	-8.11	-6.11	-2.30	-4.38	-9.43	-11.53	-6.83	-5.97	-1.42	-19.22	-5.82	-12.83
φ (120°)	-12.18	-21.40	-15.98	-0.60	0.59	-3.72	-8.72	0.86	-1.64	-10.45	-10.35	-17.43	-8.06	-7.01	-7.78	-4.11	-1.87	-12.14	-19.01	-8.09	-1.48	0.86	-6.59	-8.36	-12.18
φ (135°)	-6.57	-11.29	-11.52	-0.67	-1.79	-9.11	-4.82	0.60	1.41	-0.64	-9.19	-14.48	-5.81	-6.92	-3.59	-1.16	0.31	-0.41	-9.22	-9.04	0.13	1.04	-15.34	-10.98	-6.57
φ (150°)	-13.95	-10.19	-7.66	-5.11	-5.85	-9.37	-11.79	-3.11	-0.28	-1.58	-5.17	-23.46	-5.78	-6.73	-3.18	1.02	[2.20]	0.19	-5.95	-20.92	-6.81	-5.25	-7.97	-21.12	-13.95
φ (165°)	-31.24	-19.21	-12.56	-8.10	-8.65	-14.66	-23.00	-11.83	-6.98	-6.64	-11.48	-21.03	-10.04	-5.28	-3.79	-2.25	-1.75	-2.68	-4.89	-10.22	-14.99	-14.39	-18.31	-33.47	-31.24
φ (180°)	-11.70	-9.34	-8.51	-8.46	-7.59	-6.91	-7.22	-7.71	-10.62	-12.71	-16.40	-23.88	-18.82	-11.10	-9.07	-8.71	-7.85	-8.05	-9.46	-8.65	-9.93	-10.93	-13.47	-22.20	-11.70

Ant.	No.2																								
Freq. (MHz)	5850																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	-14.60	-7.29	-2.91	-0.37	1.03	1.58	1.54	0.97	-0.64	-3.04	-6.97	-14.63	-18.99	-8.24	-3.78	-1.15	0.45	1.24	1.71	1.24	0.02	-1.70	-5.33
θ (15°)	-20.15	-11.03	-7.88	-6.02	-4.98	-3.74	-2.67	-1.73	-1.60	-3.45	-8.44	-16.69	-29.58	-13.51	-7.17	-4.20	-3.93	-4.53	-4.56	-5.48	-6.23	-7.98	-12.85	-20.86	-20.15
θ (30°)	-8.81	-3.86	-4.25	-3.37	-1.27	-0.18	0.62	1.19	0.94	-0.31	-0.32	-5.75	-22.66	-13.19	-11.23	-18.19	-12.46	-8.93	-6.86	-7.29	-7.16	-7.44	-19.66	-24.27	-8.81
θ (45°)	-5.38	-4.93	-3.71	-2.58	-0.75	-2.49	-3.04	-1.52	0.30	-0.13	-2.73	-5.68	-17.53	-18.94	-6.77	-3.08	0.22	1.39	2.04	2.04	-0.91	-11.05	-9.27	-37.12	-5.38
θ (60°)	-6.19	-6.14	-3.77	-1.53	-2.95	1.07	2.13	1.26	-1.56	0.55	0.02	-2.73	-9.71	-9.77	-1.42	-1.31	-0.92	2.05	3.59	[4.26]	2.78	-0.20	-11.68	-9.24	-6.19
θ (75°)	-8.19	-4.62	-4.69	-7.91	-1.35	-0.52	-3.66	-2.73	-5.93	-1.83	-1.07	-4.49	-8.87	-3.48	-0.41	-4.86	-4.50	-2.67	-2.79	-0.10	0.15	-1.67	-11.15	-8.78	-8.19
θ (90°)	-8.64	-8.76	-6.59	-2.42	-4.14	-4.92	-2.01	-10.32	-8.97	-0.42	-1.70	-2.82	-7.11	-3.91	1.70	-2.36	-9.27	-6.69	-7.14	-7.15	-4.92	-4.38	-2.23	-5.83	-8.64
θ (105°)	-12.58	-5.40	-2.45	-4.49	-10.91	-1.70	-2.42	-4.87	-14.39	-0.27	-0.43	-4.01	-5.66	-0.86	0.48	-8.07	-14.10	-6.63	-6.46	-3.90	-5.22	-6.08	-3.42	-4.28	-12.58
θ (120°)	-7.54	-5.68	-3.79	-5.37	-8.08	-9.10	-10.67	-3.79	-6.09	-5.18	-5.17	-3.93	-3.86	-1.43	0.08	-2.57	-20.24	-19.35	-9.15	-9.15	-7.51	-0.68	-3.22	-6.21	-7.54
θ (135°)	-2.73	-0.04	-1.42	-0.85	-7.61	-14.49	-11.50	-3.00	-1.10	-2.71	-7.58	-5.98	-4.27	-2.76	-1.18	-4.67	-12.64	-12.81	-9.11	-11.80	-7.41	-0.97	-0.78	-2.82	-2.73
θ (150°)	-7.24	-1.78	-1.52	-5.09	-7.16	-10.23	-15.68	-12.44	-6.91	-6.44	-5.75	-4.09	-4.83	-1.56	0.66	-0.03	-4.77	-17.55	-12.59	-11.31	-15.26	-8.54	-8.85	-6.77	-7.24
θ (165°)	-11.64	-10.04	-10.40	-14.38	-26.35	-21.57	-18.64	-25.40	-16.63	-7.97	-4.58	-3.09	-3.14	-4.33	-3.55	-5.98	-16.66	-16.47	-9.02	-7.18	-7.55	-8.87	-15.76	-15.70	-11.64
θ (180°)	-5.58	-7.07	-9.97	-13.35	-20.83	-21.64	-15.53	-11.91	-8.91	-8.19	-7.16	-6.82	-6.67	-7.25	-9.23	-13.83	-19.36	-21.76	-14.68	-12.11	-10.14	-6.86	-5.05	-4.31	-5.58
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	1.71	1.12	-0.30	-2.58	-7.03	-17.99	-14.72	-6.26	-2.95	-0.60	0.43	0.83	0.81	0.26	-0.97	-3.29	-6.64	-15.53	-18.14	-7.01	-2.55	-0.42	1.05
θ (15°)	1.86	1.12	-1.02	-3.38	-5.89	-8.83	-14.99	-23.00	-8.35	-2.40	0.15	1.24	0.18	-2.14	-5.07	-9.93	-18.62	-15.61	-9.57	-6.29	-4.01	-2.54	-1.52	0.06	1.86
θ (30°)	1.40	-1.26	-8.00	-10.30	-5.21	-5.50	-7.63	-14.12	-11.88	-10.20	-6.16	0.02	0.98	-1.74	-6.90	-5.36	-5.83	-9.37	-14.15	-13.20	-10.68	-6.73	-3.22	-0.61	1.40
θ (45°)	2.11	-2.38	-2.75	-1.48	-4.32	-12.32	-10.58	-7.22	-6.70	-9.29	-10.76	-0.98	-0.27	-5.55	-5.21	-13.48	-8.44	-9.72	-12.18	-6.96	-4.44	-14.87	-8.25	-2.38	2.11
θ (60°)	-1.63	-5.60	-5.83	0.02	-3.31	-5.73	-14.81	-2.86	-5.06	-4.29	-3.40	-7.05	-1.54	-9.79	-9.25	-9.11	-1.73	-3.28	-9.88	-7.38	-3.80	-0.58	-8.77	-4.19	-1.63
θ (75°)	-3.82	-10.07	-1.04	-6.66	-8.22	-14.64	-17.72	-9.94	-4.14	-19.92	-8.91	-6.80	-3.38	-7.79	-9.53	-1.55	-2.54	-12.18	-22.12	-7.77	-3.81	-0.51	-14.43	-6.08	-3.82
θ (90°)	-10.08	-9.60	-6.19	-2.22	-2.48	-2.12	-5.04	-2.21	-5.17	-9.14	-5.14	-11.21	-4.02	-11.21	-11.26	-2.77	-2.68	-16.32	-7.67	-6.66	-1.62	-2.14	-5.80	-7.21	-10.08
θ (105°)	-10.18	-24.52	-2.24	-4.03	-1.24	-3.71	-6.37	-0.85	-10.27	-6.83	-8.35	-5.57	-7.31	-6.10	-8.56	-0.04	-3.54	-5.10	-7.31	-9.31	-6.61	-0.94	-13.49	-5.44	-10.18
θ (120°)	-16.52	-30.35	-11.81	-0.28	0.68	-3.54	-11.99	0.22	-2.57	-11.63	-12.41	-18.42	-7.33	-8.99	-9.84	-3.35	-2.14	-6.38	-10.67	-7.88	-4.21	0.32	-6.34	-10.74	-16.52
θ (135°)	-5.98	-11.55	-12.99	-1.38	0.55	-5.88	-4.50	1.00	1.68	-2.53	-16.13	-8.42	-7.91	-5.52	-3.69	0.07	[2.38]	-1.06	-8.99	-9.37	0.21	1.86	-8.71	-8.44	-5.98
θ (150°)	-11.70	-9.09	-8.53	-4.41	-6.96	-13.84	-9.10	-2.65	-1.55	-4.49	-12.12	-11.77	-6.42	-7.99	-2.14	1.15	1.30	-0.50	-5.56	-22.33	-6.38	-4.90	-6.16	-20.65	-11.70
θ (165°)	-26.08	-17.14	-10.39	-9.12	-11.36	-15.04	-24.19	-14.40	-10.88	-16.15	-14.97	-16.52	-10.03	-6.21	-5.36	-1.50	-0.88	-2.29	-5.40	-10.83	-15.35	-14.29	-14.34	-20.28	-26.08
θ (180°)	-13.00	-10.14	-9.16	-8.37	-6.88	-6.74	-8.15	-9.94	-12.16	-12.68	-18.05	-24.05	-17.45	-12.24	-9.42	-9.07	-9.10	-7.73	-9.20	-9.30	-9.67	-12.48	-13.88	-21.81	-13.00

Ant.	No.3																								
Freq. (MHz)	5500																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-11.50	-16.76	-8.48	-3.14	-0.45	1.15	1.87	2.05	1.32	0.22	-2.08	-4.52	-9.81	-16.50	-9.91	-5.27	-1.68	0.47	1.58	2.08	1.94	1.02	-0.28	-3.48
θ (15°)	-12.90	-12.93	-7.23	-3.67	-1.17	-0.11	0.33	0.31	-0.48	-1.38	-2.29	-2.86	-7.32	-12.31	-9.61	-4.85	-3.17	-2.48	-2.16	-1.83	-1.70	-2.56	-4.62	-5.22	-12.90
θ (30°)	-7.21	-7.80	-7.81	-10.23	-11.02	-9.91	-10.76	-11.99	-12.31	-10.91	-6.04	-4.64	-2.93	-7.24	-6.84	-3.35	1.23	2.57	2.22	1.68	0.46	-4.22	-8.19	-4.69	-7.21
θ (45°)	-7.04	-8.22	-23.09	-9.89	-8.68	-4.43	-4.65	-12.83	-24.40	-18.25	-22.76	-11.66	-4.43	-9.42	-5.64	-0.17	-1.00	-3.65	-3.42	-3.17	-1.22	-0.76	-8.54	-11.92	-7.04
θ (60°)	-9.53	-15.00	-32.23	-9.84	0.99	5.03	[5.46]	3.85	-0.02	-8.88	-11.17	-8.05	-4.01	-5.99	-1.27	0.48	-3.37	0.48	1.85	1.49	0.16	-2.13	-1.68	-5.04	-9.53
θ (75°)	-4.11	-19.58	-12.30	-2.43	2.17	2.91	2.62	1.15	-2.48	-4.80	-6.99	-8.90	-6.26	-7.17	-1.99	-3.07	-1.03	-2.26	1.35	2.21	2.43	-2.66	-6.07	-16.18	-4.11
θ (90°)	-4.05	-12.55	-8.60	-7.18	0.75	1.90	0.24	-2.59	-5.19	-1.64	-1.48	-6.59	-2.73	-7.05	-5.33	-0.54	-9.03	-11.16	-1.99	-1.35	-9.29	-1.76	-3.32	-9.15	-4.05
θ (105°)	-4.94	-7.99	-7.98	-6.57	-4.37	-3.38	-4.36	-8.62	-11.99	-0.96	-5.21	-4.95	-9.25	-2.78	-1.36	-1.55	-8.10	-6.20	0.08	-3.66	-6.50	-5.64	-3.25	-10.35	-4.94
θ (120°)	-5.17	-5.30	-6.90	-3.49	-6.11	-4.52	-3.90	-9.81	-10.78	-3.84	-1.29	-6.72	-4.29	-4.86	-3.29	-4.77	-7.45	-2.82	-6.29	-9.64	-10.73	-6.62	-10.63	-9.55	-5.17
θ (135°)	0.91	-5.72	-5.58	-4.07	-7.97	-16.95	-26.16	-11.57	-3.37	-1.34	-5.92	-4.49	-7.23	-3.83	-9.42	-7.02	-1.43	-6.69	-16.23	-21.14	-7.90	-2.61	-2.49	-5.08	0.91
θ (150°)	0.05	-1.24	-7.54	-7.82	-9.06	-8.56	-8.33	-11.11	-19.87	-13.19	-6.69	-5.34	-0.52	-1.15	-7.54	-9.60	-9.14	-15.33	-15.78	-14.54	-8.87	-7.58	-11.69	-9.46	0.05
θ (165°)	-3.13	-3.79	-9.38	-14.25	-11.87	-11.61	-10.72	-12.04	-11.67	-7.84	-5.16	-3.29	-2.59	-4.14	-6.83	-10.08	-13.44	-16.35	-20.22	-23.69	-24.52	-14.15	-9.26	-6.85	-3.13
θ (180°)	-4.82	-4.89	-5.44	-6.12	-8.29	-11.38	-15.01	-21.59	-17.31	-10.81	-6.50	-4.67	-3.93	-3.77	-4.74	-6.21	-8.06	-10.53	-13.01	-18.10	-17.83	-12.67	-9.33	-6.14	-4.82
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	2.07	[2.21]	1.81	0.65	-1.42	-4.75	-11.12	-20.85	-8.01	-4.27	-1.17	0.19	0.85	1.03	0.71	0.09	-1.66	-4.32	-10.63	-28.89	-9.61	-3.27	-0.39	1.36
θ (15°)	1.84	0.59	-1.97	-2.93	-4.92	-9.19	-20.54	-17.49	-9.28	-6.21	-1.91	1.09	0.54	-3.54	-4.05	-4.11	-6.75	-10.23	-11.78	-10.35	-9.89	-10.32	-9.00	-2.92	1.84
θ (30°)	1.20	-2.20	-2.40	-7.11	-21.59	-19.34	-12.92	-9.78	-9.07	-7.02	-4.63	-2.81	-0.05	-5.59	-4.36	-5.75	-4.97	-15.28	-9.56	-3.36	-0.06	0.70	-3.58	-6.50	1.20
θ (45°)	-1.20	-5.81	-4.30	-6.31	-10.40	-11.84	-8.21	-6.23	-6.44	-7.83	-7.17	-5.93	-3.39	-4.98	-2.60	-4.73	-8.75	-18.39	-13.42	-12.89	-4.33	0.08	-1.62	-4.85	-1.20
θ (60°)	-5.44	-4.68	-4.44	-8.44	-2.79	-7.43	-20.90	-7.90	-4.22	-3.86	-3.64	-6.63	-5.21	-15.06	-5.98	-8.25	-4.54	-3.39	-17.46	-6.25	-3.33	-8.27	-3.93	-22.54	-5.44
θ (75°)	-5.89	-2.99	-4.47	-3.47	-1.17	-6.25	-18.32	-3.88	-1.44	-6.86	-6.43	-8.44	-8.68	-8.75	-6.04	-8.76	-6.84	-12.00	-13.97	-17.32	-8.19	-11.13	-0.69	-6.31	-5.89
θ (90°)	-9.56	-12.05	-7.84	-4.35	-1.90	-3.41	-13.10	-7.24	-2.70	-6.29	-8.99	-6.95	-5.82	-12.26	-4.24	-9.52	-6.04	-8.83	-10.36	-2.57	-1.85	-4.53	-1.37	-15.28	-9.56
θ (105°)	-20.49	-7.51	-6.72	-1.20	-0.88	-8.55	-18.70	-7.93	-4.37	-9.99	-11.80	-13.37	-6.10	-12.09	-1.28	-7.37	-5.12	-2.24	-9.70	1.27	-1.12	-1.95	-1.21	-23.46	-20.49
θ (120°)	-13.96	-9.79	-9.70	-3.01	0.19	-4.08	-26.05	-5.00	-0.81	-5.62	-13.22	-17.48	-7.88	-9.75	-5.83	-7.40	-4.00	2.06	-3.05	-11.78	-0.45	-0.49	-4.77	-11.58	-13.96
θ (135°)	-8.18	-11.70	-8.93	-3.41	-0.86	-5.09	-7.63	-3.00	-1.61	-3.27	-5.97	-8.76	-19.80	-19.89	-8.21	-2.15	-0.86	-0.81	-6.77	-9.13	-3.89	-5.49	-17.54	-12.59	-8.18
θ (150°)	-11.29	-8.64	-14.84	-7.12	-8.16	-8.29	-21.47	-10.38	-5.93	-3.52	-2.39	-10.95	-8.14	-12.65	-11.51	-7.41	-2.80	-3.69	-7.06	-14.44	-19.17	-16.23	-10.27	-10.74	-11.29
θ (165°)	-12.42	-7.74	-11.30	-22.50	-23.16	-17.89	-10.55	-6.55	-5.34	-5.76	-6.49	-5.27	-11.58	-15.13	-7.63	-8.39	-10.04	-10.06	-10.02	-12.87	-14.75	-13.99	-11.76	-12.23	-12.42
θ (180°)	-11.09	-18.03	-18.98	-12.46	-9.26	-7.02	-6.35	-5.96	-6.42	-6.38	-7.94	-10.23	-13.11	-18.59	-16.42	-12.75	-13.18	-11.08	-9.27	-7.11	-6.60	-5.55	-6.35	-8.29	-11.09

Ant.	No.3																								
Freq. (MHz)	5650																								
Polarity	Theta																								
dB	φ (0°)	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-7.56	-13.04	-13.65	-7.91	-4.14	-1.69	-0.40	0.26	0.37	-0.36	-1.26	-3.56	-7.29	-14.85	-16.88	-7.31	-3.44	-1.46	-0.04	0.60	0.94	0.39	-0.78	-2.53	-7.56
θ (15°)	-14.92	-15.06	-8.51	-4.99	-3.19	-1.69	-0.91	-0.73	-1.29	-2.73	-2.27	-2.48	-4.94	-9.38	-11.10	-10.59	-8.91	-7.11	-6.91	-6.52	-6.48	-5.89	-5.43	-6.13	-14.92
θ (30°)	-8.84	-14.85	-9.77	-11.60	-8.16	-7.86	-9.67	-9.67	-8.55	-7.60	-4.22	-10.96	-6.17	-11.50	-7.79	-5.86	-2.15	0.38	1.03	0.73	-0.26	-5.21	-5.35	-3.28	-8.84
θ (45°)	-5.04	-9.05	-28.53	-16.94	-7.25	-2.48	-2.35	-3.98	-7.37	-10.68	-13.44	-16.07	-10.62	-10.83	-8.31	-1.36	-0.64	-2.84	-5.87	-5.53	-2.19	-5.16	-18.96	-9.00	-5.04
θ (60°)	-9.52	-9.06	-16.84	-14.70	2.73	[4.96]	4.56	2.63	0.19	-2.77	-10.39	-11.55	-11.90	-5.24	-3.16	-0.59	-0.35	-1.43	2.14	2.51	0.66	-2.85	-1.97	-4.20	-9.52
θ (75°)	-9.25	-15.22	-8.17	-1.95	0.49	1.56	1.04	-1.32	-3.74	-1.16	-6.30	-9.39	-11.73	0.85	-0.32	0.78	-0.68	-2.04	0.48	1.29	1.08	-4.79	-5.15	-6.69	-9.25
θ (90°)	-4.56	-15.35	-5.75	-1.48	-2.03	-2.62	-5.12	-8.52	-7.63	0.02	-1.74	-15.62	-6.53	-4.31	-2.89	1.48	-3.14	-11.84	-3.43	-3.81	-5.25	-0.24	-5.62	-8.58	-4.56
θ (105°)	-5.82	-10.22	-4.51	-5.54	-10.32	-5.20	-3.95	-10.49	-14.35	1.11	-1.14	-5.38	-4.92	1.98	0.82	1.27	-10.02	-5.99	0.33	-2.86	-5.51	-4.38	-3.97	-8.83	-5.82
θ (120°)	-8.17	-6.30	-5.21	-1.81	-4.13	-5.97	-7.67	-13.25	-7.43	-2.86	-2.61	-6.96	-6.05	-1.16	-2.51	-6.00	-5.23	-1.52	-7.84	-7.67	-6.65	-4.55	-4.32	-7.25	-8.17
θ (135°)	-1.88	-4.39	-2.40	-1.10	-1.78	-4.06	-5.28	-3.33	-1.32	-1.57	-8.73	-5.94	-7.45	-0.86	-3.68	-5.90	-1.85	-5.55	-10.96	-18.31	-5.85	-0.31	-1.81	-2.63	-1.88
θ (150°)	-2.77	-5.38	-7.67	-8.22	-9.07	-8.50	-7.38	-11.57	-16.69	-10.64	-7.82	-6.39	-3.13	-0.78	-1.65	-5.17	-5.67	-16.21	-18.84	-16.16	-7.19	-2.98	-3.82	-6.04	-2.77
θ (165°)	-3.88	-4.37	-10.17	-12.70	-11.51	-10.00	-10.68	-12.38	-14.10	-7.86	-2.85	-1.63	-1.84	-3.18	-4.88	-9.57	-18.31	-20.26	-21.72	-26.19	-23.26	-18.08	-11.80	-8.43	-3.88
θ (180°)	-5.00	-4.65	-4.93	-5.94	-7.86	-11.05	-14.80	-18.71	-15.25	-13.68	-7.45	-4.21	-3.28	-3.55	-4.81	-7.16	-8.79	-10.83	-13.95	-16.21	-14.62	-10.67	-7.37	-5.64	-5.00
Polarity	Phi																								
dB	φ (0°)	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	0.01	0.47	0.43	-0.33	-1.69	-4.06	-8.18	-16.07	-14.76	-7.57	-4.03	-1.74	-0.48	0.07	0.28	-0.45	-2.18	-4.24	-8.65	-17.11	-12.48	-6.82	-3.06	-1.25	0.01
θ (15°)	0.69	-0.40	-1.45	-2.18	-4.36	-7.82	-12.39	-13.55	-9.03	-6.77	-4.41	-2.16	-1.37	-4.00	-10.29	-15.50	-13.55	-15.10	-13.56	-14.34	-22.38	-8.97	-2.73	0.69	
θ (30°)	-0.13	-2.81	-2.67	-9.25	-12.17	-14.96	-8.96	-7.09	-6.32	-6.23	-4.75	-5.25	-1.62	-10.06	-10.49	-9.02	-6.49	-15.20	-13.13	-7.01	-3.70	-3.81	-7.98	-18.11	-0.13
θ (45°)	-0.72	-5.95	-10.59	-12.68	-10.24	-8.42	-6.41	-5.12	-4.65	-5.17	-6.34	-7.29	-2.90	-11.91	-5.59	-9.87	-11.39	-13.74	-12.11	-10.26	-4.57	-1.65	-3.97	-10.24	-0.72
θ (60°)	-4.51	-5.24	-6.28	-9.52	-1.51	-10.70	-8.16	-1.40	-2.57	-4.15	-3.85	-7.70	-5.22	-18.26	-7.47	-8.74	-2.93	-2.05	-15.72	-3.96	-2.39	-8.13	-5.47	-20.96	-4.51
θ (75°)	-7.23	-3.49	-6.72	-1.08	-3.04	-14.84	-10.71	-2.49	-0.22	-4.67	-4.87	-7.76	-8.20	-12.24	-6.32	-10.80	-6.75	-18.31	-11.11	-8.11	-5.56	-18.44	-3.44	-9.84	-7.23
θ (90°)	-6.92	-10.06	-10.61	-2.56	-4.67	-5.99	-11.82	-7.87	-2.29	-3.06	-5.61	-5.04	-6.49	-16.05	-11.07	-13.14	-6.31	-16.81	-20.75	-3.04	-3.56	-7.64	-3.29	-12.71	-6.92
θ (105°)	-15.55	-11.89	-9.58	0.45	-4.58	-13.05	-14.80	-5.87	-2.89	-3.97	-9.51	-6.93	-6.57	-8.91	-3.04	-13.93	-6.07	-4.85	-5.00	1.10	-1.52	-8.23	-2.53	-14.85	-15.55
θ (120°)	-19.64	-11.72	-25.70	-2.72	0.22	-8.14	-15.69	-7.03	-2.00	-5.75	-9.16	-9.16	-5.50	-11.49	-4.49	-9.04	-4.47	[2.68]	-1.45	-12.76	1.08	-0.04	-4.40	-11.84	-19.64
θ (135°)	-7.53	-20.75	-10.53	-1.08	-0.08	-8.10	-5.26	0.50	-0.47	-1.76	-10.53	-9.72	-12.68	-21.98	-6.61	-0.55	0.46	0.10	-6.55	-10.32	-3.69	-3.11	-14.98	-14.08	-7.53
θ (150°)	-9.68	-10.59	-17.95	-8.31	-4.89	-6.35	-14.99	-7.55	-2.60	-3.33	-2.42	-9.74	-7.98	-10.27	-6.04	-6.32	-2.54	-1.54	-5.27	-15.91	-13.49	-9.50	-8.49	-10.83	-9.68
θ (165°)	-14.97	-10.27	-13.63	-28.95	-39.25	-23.33	-13.10	-6.91	-3.95	-2.82	-6.03	-6.89	-9.11	-20.89	-9.22	-5.83	-7.47	-11.04	-11.58	-11.12	-12.36	-11.13	-12.32	-15.28	-14.97
θ (180°)	-12.00	-17.17	-14.39	-11.09	-8.76	-6.34	-5.95	-5.72	-6.32	-6.84	-7.59	-10.91	-14.20	-14.72	-12.56	-12.48	-13.99	-11.09	-9.18	-7.73	-7.20	-6.38	-8.07	-9.19	-12.00

Ant.	No.3																								
Freq. (MHz)	5850																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-7.66	-16.19	-13.73	-5.71	-1.91	0.43	1.65	2.09	2.16	1.55	0.16	-1.94	-5.19	-11.00	-13.08	-6.90	-2.89	-0.38	1.30	2.01	2.19	1.61	0.09	-2.03
θ (15°)	-10.45	-16.06	-7.97	-3.54	-1.37	0.19	0.86	1.00	1.03	0.16	-1.76	-4.56	-8.34	-9.96	-5.80	-4.08	-3.47	-2.83	-2.81	-3.57	-4.48	-4.63	-4.38	-5.18	-10.45
θ (30°)	-11.01	-17.40	-10.92	-4.40	-4.40	-6.51	-6.09	-6.19	-4.95	-4.31	-5.27	-7.03	-11.82	-6.22	-2.15	-0.39	-0.08	1.88	2.74	2.57	1.56	-1.85	-3.87	-3.56	-11.01
θ (45°)	-7.55	-12.17	-11.84	-8.65	-1.44	0.38	0.83	0.51	-1.16	-9.03	-17.54	-12.17	-20.55	-5.33	-3.24	-0.30	0.19	-0.06	-0.96	-0.46	0.10	-2.43	-7.56	-5.38	-7.55
θ (60°)	-11.36	-16.98	-15.71	-3.20	3.68	[5.48]	4.99	3.26	-0.03	-2.00	-10.41	-26.83	-13.38	-3.62	-1.52	0.22	0.77	-2.14	1.14	1.71	0.39	-0.55	-1.35	-5.26	-11.36
θ (75°)	-10.94	-12.52	-19.81	-2.03	1.39	0.66	0.08	-0.14	-3.19	-2.32	-3.86	-13.92	-6.63	0.04	-1.14	-1.02	-4.76	-4.16	-1.84	-0.66	-0.59	-7.97	-5.50	-4.97	-10.94
θ (90°)	-5.58	-18.35	-8.21	-3.93	0.15	0.02	-0.76	-3.67	-4.90	-3.42	-2.71	-14.47	-11.88	-2.34	-3.87	0.09	-4.98	-15.56	-3.81	-3.51	-6.48	-1.24	-3.61	-4.56	-5.58
θ (105°)	-4.89	-14.38	-3.57	-7.45	-7.89	-3.51	-1.74	-6.45	-5.83	0.18	-1.45	-11.44	-3.63	1.53	0.15	0.26	-14.93	-4.40	-2.36	-7.81	-8.53	-7.79	-5.71	-6.24	-4.89
θ (120°)	-12.33	-6.54	-13.31	-2.88	-6.80	-5.03	-6.39	-13.73	-11.27	-3.78	-1.82	-9.71	-8.43	-2.93	-4.62	-7.40	-6.90	-5.57	-11.43	-8.80	-8.81	-7.06	-4.59	-2.86	-12.33
θ (135°)	-7.71	-2.98	-3.56	-0.94	-2.29	-6.36	-9.57	-8.81	-1.83	-0.32	-3.69	-23.04	-5.37	-1.76	-3.40	-3.61	-3.39	-4.79	-10.41	-11.51	-5.63	-0.74	-1.30	-0.13	-7.71
θ (150°)	-9.29	-31.22	-12.27	-12.05	-11.20	-8.66	-7.11	-10.48	-12.00	-6.44	-8.28	-10.17	-5.08	-3.49	-1.32	-4.12	-5.21	-11.76	-29.44	-16.90	-6.37	-2.53	-1.31	-3.46	-9.29
θ (165°)	-6.01	-5.84	-11.45	-14.32	-13.63	-11.34	-12.08	-14.04	-17.51	-10.69	-5.21	-2.37	-1.39	-3.61	-6.93	-8.87	-14.08	-23.17	-24.38	-23.28	-25.43	-22.97	-27.04	-12.58	-6.01
θ (180°)	-5.44	-5.38	-5.96	-7.50	-9.59	-13.41	-19.01	-19.32	-14.67	-10.59	-8.11	-5.15	-4.03	-4.17	-5.47	-7.51	-10.21	-13.61	-17.10	-18.85	-15.04	-10.59	-7.52	-6.16	-5.44
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	1.66	[2.03]	1.90	1.19	-0.52	-3.16	-8.02	-21.87	-11.61	-4.80	-1.99	0.14	1.39	1.86	1.92	1.44	-0.14	-2.12	-6.13	-15.29	-14.01	-5.76	-1.83	0.12
θ (15°)	1.92	1.74	1.39	0.17	-2.61	-6.96	-16.54	-15.62	-7.26	-3.58	-1.53	0.48	1.48	0.52	-2.93	-9.40	-15.51	-35.77	-19.56	-12.45	-9.10	-5.81	-2.09	0.36	1.92
θ (30°)	1.27	1.13	-0.64	-4.58	-11.47	-11.57	-11.05	-11.20	-9.09	-5.39	-1.82	-0.29	0.73	-1.23	-7.41	-5.64	-4.05	-8.25	-16.81	-8.16	-3.87	-3.10	-5.86	-3.71	1.27
θ (45°)	0.94	-0.55	-4.60	-15.34	-6.47	-9.42	-8.04	-8.15	-11.90	-9.42	-6.90	-1.05	1.31	-4.10	-2.79	-2.24	-7.10	-11.95	-15.65	-9.52	-2.53	0.34	-1.44	-2.99	0.94
θ (60°)	-2.90	-4.69	-4.06	-4.21	-4.95	-9.05	-4.67	-0.55	1.32	-3.88	-6.87	-6.25	-1.89	-6.14	-2.73	-4.34	-8.77	-2.92	-14.35	-6.75	-2.53	-3.04	-1.54	-10.42	-2.90
θ (75°)	-7.53	-4.91	-4.32	1.08	-4.32	-11.60	-9.47	-4.10	0.22	-1.40	-7.65	-7.65	-5.66	-11.60	-3.41	-20.10	-4.79	-9.26	-17.52	-6.71	-3.28	-5.19	-1.59	-7.03	-7.53
θ (90°)	-7.66	-6.94	-7.38	-1.76	-2.50	-7.80	-13.45	-12.39	-3.25	-2.14	-13.19	-11.11	-5.86	-12.65	-4.35	-14.81	-4.50	-8.96	-14.45	-6.63	-2.83	-5.00	-2.27	-28.42	-7.66
θ (105°)	-18.76	-12.89	-7.22	0.48	-5.40	-6.75	-11.41	-10.69	-1.82	0.03	-8.87	-7.57	-8.75	-18.34	-4.84	-16.77	-9.49	-1.49	-5.60	-0.99	-0.84	-6.07	-3.28	-13.64	-18.76
θ (120°)	-16.79	-6.29	-12.73	-1.16	-2.19	-5.86	-21.35	-6.11	-3.04	-1.83	-8.74	-6.03	-5.43	-9.15	-5.22	-10.56	-6.58	1.00	-2.26	-16.69	0.29	-0.95	-8.36	-16.40	-16.79
θ (135°)	-14.90	-10.60	-10.06	-0.95	-0.94	-13.15	-8.17	-0.93	1.69	-0.78	-6.11	-8.83	-7.96	-8.19	-4.58	-0.55	1.50	0.33	-6.30	-11.23	-3.30	-4.51	-6.12	-16.01	-14.90
θ (150°)	-13.71	-14.63	-13.85	-8.58	-6.25	-7.88	-27.42	-6.01	-2.56	-3.01	-4.75	-8.30	-8.03	-7.42	-5.49	-1.76	-1.70	-1.00	-3.95	-14.04	-13.45	-3.87	-6.04	-9.85	-13.71
θ (165°)	-22.85	-15.85	-13.74	-13.67	-15.15	-16.34	-13.84	-8.59	-4.00	-4.34	-4.81	-7.67	-11.51	-12.19	-11.92	-8.48	-6.66	-8.11	-12.66	-16.68	-12.99	-10.21	-13.07	-13.72	-22.85
θ (180°)	-15.39	-18.56	-16.81	-11.41	-9.62	-6.59	-6.43	-5.71	-6.61	-8.67	-9.72	-12.27	-16.25	-16.85	-11.88	-10.50	-11.59	-10.12	-9.69	-8.55	-7.67	-8.09	-9.28	-10.59	-15.39

Ant.	No.4																								
Freq. (MHz)	5500																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-27.49	-16.92	-8.78	-4.48	-2.18	-1.25	-0.42	-0.91	-1.47	-3.18	-5.02	-8.87	-16.34	-17.94	-9.57	-5.31	-2.81	-1.82	-0.89	-1.22	-1.28	-3.14	-4.58	-9.25
θ (15°)	-7.15	-5.37	-3.90	-2.95	-2.03	-1.41	-1.75	-1.52	-1.71	-2.19	-3.07	-5.08	-8.21	-11.50	-10.96	-6.76	-4.75	-2.93	-3.95	-3.92	-6.57	-8.40	-11.41	-9.22	-7.15
θ (30°)	-5.98	-5.64	-3.79	-3.80	-4.11	-2.67	-2.30	-1.59	-2.06	-2.99	-5.31	-6.17	-5.70	-10.44	-7.15	-13.66	-11.44	-9.07	-10.68	-8.92	-5.70	-5.04	-6.70	-8.00	-5.98
θ (45°)	-14.82	-13.00	-10.09	-7.74	-7.19	-8.08	-8.70	-10.59	-8.72	-6.50	-9.14	-11.40	-8.17	-6.90	-7.57	-15.01	-13.13	-16.19	-11.52	-11.00	-12.64	-10.29	-9.22	-9.93	-14.82
θ (60°)	-4.60	-6.80	-6.10	-7.34	-9.25	-10.37	-9.21	-11.22	-11.82	-7.12	-6.77	-10.23	-8.12	-12.62	-14.33	-11.37	-16.13	-7.55	-2.90	-3.90	-10.16	-11.95	-12.81	-9.39	-4.60
θ (75°)	-9.82	-10.85	-4.68	-21.78	-10.46	-5.94	-4.85	-8.35	-14.40	-10.07	-4.64	-10.30	-14.32	-30.94	-26.08	-9.69	-8.07	-6.92	-3.95	-3.40	-13.54	-17.64	-14.06	-10.29	-9.82
θ (90°)	-7.18	-6.83	-6.89	-8.17	-6.71	-3.72	-5.26	-7.42	-7.40	-5.86	-6.03	-9.63	-7.58	-12.73	-12.03	-14.07	-9.65	-7.12	-17.34	-13.22	-9.78	-12.88	-14.51	-18.33	-7.18
θ (105°)	-8.89	-1.54	-1.11	-3.37	-3.22	1.66	1.45	-0.38	-3.03	-3.20	0.37	-1.29	-6.93	-10.57	-18.06	-10.30	-9.66	-7.97	-1.12	[2.76]	-3.93	-7.37	-16.68	-11.05	-8.89
θ (120°)	-9.26	-7.41	-5.26	-2.67	-0.72	-1.36	-1.20	0.35	-0.61	-3.36	-2.80	-3.71	-11.75	-5.52	-12.37	-7.16	-11.61	-8.60	-5.99	-5.02	-1.73	-1.56	-6.24	-4.91	-9.26
θ (135°)	-7.84	-8.78	-8.29	-3.33	-1.70	-0.55	-0.45	-0.17	0.21	-2.73	-8.66	-13.79	-14.12	-12.37	-9.68	-17.09	-19.86	-14.83	-16.27	-6.01	-3.82	-6.71	-4.04	-12.79	-7.84
θ (150°)	-9.69	-11.71	-8.70	-10.47	-6.14	-6.10	-4.99	-4.94	-4.46	-5.72	-13.53	-14.15	-10.41	-11.42	-15.93	-17.27	-12.10	-14.57	-25.63	-16.83	-28.01	-20.75	-14.16	-12.67	-9.69
θ (165°)	-15.58	-22.85	-11.37	-6.86	-7.54	-5.99	-5.99	-5.88	-7.27	-8.62	-8.25	-8.61	-9.00	-9.82	-9.38	-8.87	-11.70	-15.03	-22.54	-18.59	-18.96	-14.93	-12.11	-9.63	-15.58
θ (180°)	-21.20	-22.24	-14.27	-10.11	-7.21	-5.50	-4.26	-4.77	-5.39	-8.00	-8.37	-11.24	-16.45	-25.06	-16.58	-12.16	-9.23	-6.68	-5.77	-4.50	-5.78	-5.61	-8.15	-10.54	-21.20
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-0.83	-0.80	-1.71	-2.94	-6.15	-9.70	-26.87	-13.58	-8.17	-3.88	-2.23	-0.85	-0.54	-0.58	-1.52	-3.21	-5.27	-10.21	-15.09	-14.52	-7.84	-5.30	-2.27	-1.43
θ (15°)	-1.79	-1.07	-1.48	-4.07	-9.04	-17.04	-25.63	-16.11	-8.50	-4.96	-2.42	-1.99	-3.25	-4.99	-7.16	-8.42	-12.44	-26.35	-14.16	-9.27	-8.09	-7.68	-5.26	-3.76	-1.79
θ (30°)	-6.20	-5.32	-8.42	-13.60	-8.80	-7.87	-9.27	-12.14	-17.59	-15.22	-13.62	-10.65	-8.87	-11.92	-10.04	-13.74	-22.21	-29.49	-12.34	-8.15	-7.32	-5.35	-7.43	-11.10	-6.20
θ (45°)	-21.31	-18.45	-13.35	-20.75	-18.14	-13.63	-10.59	-11.11	-8.67	-13.46	-11.57	-10.24	-8.53	-6.98	-6.98	-2.80	-14.99	-12.53	-11.40	-12.25	-7.14	-3.69	-7.83	-15.34	-21.31
θ (60°)	-12.75	-8.25	-7.58	-6.15	-11.34	-8.83	-14.65	-15.24	-7.21	-7.55	-7.80	-5.12	-4.44	-1.55	-3.47	-1.65	-1.52	-6.37	-6.70	-9.62	-2.30	-5.49	-3.58	-7.39	-12.75
θ (75°)	-3.04	-3.55	-3.26	-4.47	-11.17	-13.91	-12.15	-9.53	-4.46	-2.26	-2.08	0.03	0.26	1.92	1.78	2.49	-0.59	-0.21	-8.83	0.07	-0.37	-1.03	-4.98	-1.92	-3.04
θ (90°)	-0.10	0.58	0.00	-2.89	-4.72	-13.58	-14.93	-3.55	-2.94	1.23	2.19	2.40	2.19	2.59	-1.19	0.80	-1.14	[4.67]	0.70	-1.99	2.79	2.50	-0.47	0.11	-0.10
θ (105°)	-0.39	-0.28	-0.99	-9.89	-13.98	-10.68	-10.16	-6.05	-2.03	0.73	2.84	2.26	2.04	1.64	0.45	-0.48	-3.85	1.65	-2.56	-3.34	-1.60	2.28	0.07	0.80	-0.39
θ (120°)	-2.05	-5.70	-2.10	-3.92	-25.55	-12.90	-8.72	-8.65	-6.48	-1.57	1.47	1.31	2.93	1.12	2.00	1.20	1.68	-1.54	-6.23	-11.77	-2.63	0.59	-0.32	-3.28	-2.05
θ (135°)	-8.69	-5.42	-5.50	-4.86	-8.17	-22.20	-13.34	-9.54	-5.45	-1.74	-1.34	-0.48	-1.38	-0.53	-2.84	0.03	-1.45	-2.72	-10.71	-18.98	-5.24	-2.44	-5.00	-5.59	-8.69
θ (150°)	-6.37	-7.74	-7.23	-4.82	-5.79	-7.43	-12.48	-13.52	-10.88	-5.26	-2.86	-7.12	-4.06	-3.21	-6.98	-10.84	-5.63	-8.58	-16.05	-12.44	-12.10	-6.96	-7.66	-10.61	-6.37
θ (165°)	-5.64	-4.64	-4.07	-6.77	-8.49	-10.66	-14.16	-17.65	-10.17	-9.07	-8.01	-9.90	-7.53	-10.60	-10.46	-10.36	-13.29	-22.97	-16.90	-25.84	-21.36	-12.94	-14.40	-15.84	-5.64
θ (180°)	-4.89	-4.51	-5.38	-5.96	-8.32	-10.26	-15.40	-19.22	-13.29	-10.92	-9.81	-5.60	-3.29	-3.25	-4.84	-8.53	-9.39	-13.94	-14.44	-18.52	-15.82	-12.88	-8.97	-6.58	-4.89

Ant.	No.4																								
Freq. (MHz)	5650																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-25.71	-18.03	-9.16	-6.25	-3.90	-2.45	-2.06	-2.12	-2.76	-4.38	-7.25	-11.92	-25.09	-17.91	-10.14	-6.46	-4.64	-2.82	-2.66	-2.12	-2.94	-3.68	-6.45	-9.67
θ (15°)	-5.34	-5.36	-5.20	-4.33	-3.39	-2.98	-2.87	-3.77	-4.12	-3.50	-4.68	-6.23	-8.23	-9.11	-9.57	-7.31	-5.34	-4.83	-4.37	-5.51	-5.84	-7.47	-6.79	-6.17	-5.34
θ (30°)	-2.88	-4.24	-3.57	-4.33	-3.81	-3.52	-3.80	-3.75	-3.35	-3.91	-6.65	-7.46	-5.62	-8.15	-7.45	-8.16	-13.11	-11.08	-9.59	-7.58	-5.76	-7.41	-5.14	-9.51	-2.88
θ (45°)	-9.25	-7.06	-6.07	-5.57	-11.81	-15.80	-13.26	-13.99	-11.93	-6.42	-8.04	-9.73	-6.80	-8.57	-16.31	-13.04	-17.17	-14.68	-11.27	-9.79	-19.01	-13.14	-12.10	-6.45	-9.25
θ (60°)	-3.75	-4.53	-6.55	-7.00	-7.61	-8.76	-9.93	-11.74	-13.40	-9.13	-9.47	-7.77	-7.23	-13.33	-10.26	-15.61	-11.76	-8.41	-4.25	-4.52	-7.55	-15.96	-14.35	-7.50	-3.75
θ (75°)	-14.82	-10.50	-6.50	-11.31	-6.82	-3.64	-4.29	-5.22	-6.62	-15.66	-7.09	-7.51	-8.92	-8.78	-8.69	-6.00	-6.58	-5.61	-2.77	-2.43	-11.83	-14.82	-14.77	-15.25	-14.82
θ (90°)	-5.68	-4.17	-7.70	-11.60	-4.78	-6.13	-12.04	-11.80	-7.89	-8.57	-9.42	-10.26	-7.09	-20.72	-11.46	-13.12	-8.62	-5.69	-13.64	-9.14	-9.37	-11.90	-14.50	-10.98	-5.68
θ (105°)	-8.49	-0.48	-2.46	-3.75	-2.11	0.08	-1.19	-0.81	-1.78	-5.87	-1.56	-0.54	-5.06	-5.31	-14.19	-14.10	-7.69	-6.13	-1.84	[3.08]	-3.37	-5.03	-12.61	-9.96	-8.49
θ (120°)	-10.95	-5.89	-7.70	-3.31	-2.10	-2.36	-1.13	-0.78	-1.22	-5.57	-4.65	-7.05	-15.13	-5.51	-9.37	-9.25	-13.86	-7.94	-5.73	-7.13	-3.45	-2.31	-6.22	-8.36	-10.95
θ (135°)	-8.75	-11.34	-7.93	-4.83	-2.77	-1.10	-1.52	-1.08	-0.87	-1.06	-5.91	-13.30	-18.68	-15.47	-12.71	-23.48	-17.10	-16.47	-10.68	-5.60	-7.33	-11.29	-14.83	-15.83	-8.75
θ (150°)	-10.79	-10.01	-16.86	-9.25	-9.13	-6.60	-4.96	-3.92	-3.83	-4.85	-7.15	-16.57	-11.16	-7.76	-9.92	-11.51	-14.87	-14.68	-17.76	-14.80	-14.84	-11.91	-7.75	-6.47	-10.79
θ (165°)	-18.24	-13.50	-10.94	-10.62	-8.78	-6.98	-6.96	-7.75	-9.38	-9.01	-7.37	-8.40	-8.67	-8.03	-10.28	-10.44	-12.25	-12.97	-21.06	-19.00	-18.99	-15.40	-14.26	-14.92	-18.24
θ (180°)	-13.84	-19.38	-22.01	-14.96	-10.56	-8.55	-6.64	-6.64	-6.93	-7.70	-8.91	-9.29	-12.14	-18.76	-38.33	-25.03	-17.24	-11.13	-9.45	-7.06	-6.73	-7.04	-7.72	-9.04	-13.84
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-1.90	-1.96	-2.84	-4.61	-6.41	-11.78	-26.86	-17.24	-9.37	-5.86	-4.24	-2.96	-2.15	-2.14	-3.19	-5.24	-7.53	-11.85	-19.21	-14.54	-9.11	-5.45	-3.65	-2.27
θ (15°)	-3.41	-2.43	-3.66	-7.55	-13.16	-21.81	-21.77	-15.16	-9.38	-7.58	-5.94	-4.65	-4.19	-5.44	-8.73	-10.11	-13.79	-17.05	-15.56	-11.52	-10.08	-8.16	-5.92	-5.36	-3.41
θ (30°)	-11.67	-7.77	-17.58	-19.00	-13.08	-10.68	-11.35	-13.97	-16.37	-19.78	-17.87	-14.42	-18.93	-17.54	-35.33	-16.38	-16.29	-19.91	-13.40	-10.36	-7.63	-7.84	-15.56	-12.05	-11.67
θ (45°)	-14.62	-11.08	-8.53	-13.22	-18.30	-20.51	-14.01	-10.34	-12.29	-8.54	-7.34	-9.75	-5.95	-3.62	-3.97	-4.36	-6.57	-16.83	-12.71	-10.38	-6.18	-4.79	-8.84	-8.97	-14.62
θ (60°)	-5.68	-4.16	-4.37	-4.31	-5.41	-7.96	-18.67	-18.39	-7.97	-7.50	-4.68	-2.62	-3.01	0.34	-2.74	-0.10	-1.25	-9.58	-9.79	-8.48	-3.17	-4.66	-2.90	-5.07	-5.68
θ (75°)	-2.37	-2.66	-2.56	-4.09	-10.86	-14.97	-17.09	-4.83	-5.88	-2.36	-0.34	-0.22	0.44	1.33	1.53	2.51	-0.23	1.31	-9.32	0.06	-0.95	-0.71	-3.19	-0.51	-2.37
θ (90°)	-0.24	-0.49	-2.05	-2.45	-9.90	-17.28	-11.96	-3.12	-0.99	1.54	3.30	3.17	2.95	1.40	0.17	-0.16	-0.33	[4.76]	1.09	-0.61	3.35	2.27	-0.41	0.98	-0.24
θ (105°)	-1.69	-1.27	-2.58	-7.41	-24.31	-17.01	-9.38	-2.81	-1.43	1.35	2.75	2.69	2.49	2.03	0.62	-0.91	-3.74	1.89	-3.53	-2.79	-1.21	0.89	-2.37	0.27	-1.69
θ (120°)	-4.21	-6.38	-3.79	-7.68	-9.41	-8.97	-8.15	-7.80	-3.98	-2.84	0.36	1.05	1.79	2.09	1.49	2.31	1.79	-0.52	-4.87	-11.97	-3.00	-0.87	-2.49	-4.98	-4.21
θ (135°)	-8.49	-6.16	-6.20	-4.66	-14.13	-21.75	-18.45	-15.09	-9.72	-3.94	-1.92	-2.07	-2.98	-1.14	-2.31	-1.23	-1.63	-3.77	-20.16	-11.81	-5.81	-1.91	-10.80	-5.72	-8.49
θ (150°)	-5.77	-4.20	-8.39	-5.28	-6.50	-11.23	-21.36	-26.14	-20.74	-12.09	-4.68	-5.72	-5.94	-1.71	-6.93	-11.39	-10.07	-10.90	-20.43	-13.97	-10.08	-14.03	-9.97	-16.85	-5.77
θ (165°)	-6.20	-4.15	-4.75	-6.90	-9.54	-13.77	-18.76	-24.03	-15.14	-11.83	-8.30	-7.18	-11.01	-10.63	-8.71	-9.68	-11.38	-19.66	-17.44	-24.81	-33.00	-24.55	-11.77	-8.42	-6.20
θ (180°)	-8.88	-7.62	-6.42	-6.53	-7.62	-9.41	-13.05	-16.93	-23.31	-22.91	-14.29	-8.80	-5.94	-4.70	-5.98	-8.12	-11.19	-12.19	-14.51	-13.83	-24.95	-24.91	-15.52	-11.51	-8.88

Ant.	No.4																								
Freq. (MHz)	5850																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-28.66	-13.79	-7.06	-4.21	-2.14	-1.29	-1.25	-1.69	-2.57	-4.54	-6.88	-11.55	-33.23	-14.64	-8.26	-4.80	-3.19	-1.88	-1.44	-1.39	-1.94	-3.33	-5.66	-9.97
θ (15°)	-5.52	-5.38	-4.36	-2.98	-1.78	-1.08	-0.52	-0.60	-1.77	-3.23	-3.64	-4.82	-6.64	-6.04	-5.55	-5.21	-4.00	-3.37	-2.76	-3.38	-3.40	-4.45	-4.93	-5.68	-5.52
θ (30°)	-2.66	-1.84	-2.82	-3.63	-2.17	-2.52	-2.42	-2.52	-2.65	-3.42	-1.62	-4.31	-3.02	-3.64	-3.40	-2.21	-6.43	-7.60	-7.77	-6.64	-6.20	-4.99	-3.99	-3.44	-2.66
θ (45°)	-17.44	-8.25	-6.69	-8.28	-10.62	-11.58	-11.41	-9.57	-6.19	-8.66	-8.99	-10.18	-8.71	-7.06	-5.13	-8.16	-13.69	-10.92	-7.43	-7.31	-9.16	-9.58	-15.24	-10.23	-17.44
θ (60°)	-1.13	-2.61	-5.00	-4.70	-8.42	-8.29	-11.14	-11.40	-10.82	-9.94	-9.72	-6.30	-6.81	-8.33	-14.80	-18.83	-11.44	-14.25	-6.73	-5.64	-6.69	-13.48	-12.78	-3.77	-1.13
θ (75°)	-12.65	-5.25	-8.04	-9.41	-7.63	-5.12	-6.06	-7.38	-5.16	-10.77	-5.62	-5.54	-6.42	-4.53	-7.11	-8.02	-9.29	-8.09	-5.26	-3.21	-15.26	-22.81	-10.37	-13.07	-12.65
θ (90°)	-8.84	-5.09	-7.91	-12.93	-6.76	-11.12	-10.24	-7.07	-7.68	-7.82	-8.07	-9.04	-9.67	-14.88	-10.93	-10.42	-8.63	-6.58	-11.04	-5.94	-6.33	-8.29	-13.48	-15.52	-8.84
θ (105°)	-21.34	-3.43	-4.80	-8.06	-5.73	-6.76	-8.39	-4.42	-4.00	-6.07	-4.29	-3.69	-9.79	-6.89	-15.20	-26.38	-13.05	-5.28	-3.75	[1.64]	-6.39	-4.53	-12.01	-11.71	-21.34
θ (120°)	-21.30	-7.92	-9.59	-5.97	-4.64	-4.37	-4.82	-5.10	-4.78	-4.83	-5.58	-8.21	-10.47	-7.53	-7.32	-14.69	-13.21	-7.20	-6.60	-9.42	-5.31	-7.57	-7.56	-11.51	-21.30
θ (135°)	-15.53	-15.27	-9.71	-7.53	-4.23	-2.65	-1.67	-2.57	-1.89	-2.52	-3.40	-6.27	-20.97	-12.59	-26.17	-11.80	-12.73	-15.99	-19.39	-8.86	-7.62	-7.98	-12.69	-7.44	-15.53
θ (150°)	-13.16	-11.44	-16.35	-13.37	-9.10	-8.11	-5.84	-4.29	-3.73	-3.82	-5.22	-9.78	-19.50	-5.17	-7.21	-7.64	-15.75	-14.65	-18.62	-17.59	-18.46	-12.91	-6.57	-8.19	-13.16
θ (165°)	-19.89	-14.18	-15.21	-11.15	-8.64	-10.73	-11.26	-10.93	-11.20	-10.32	-8.93	-9.12	-11.57	-6.95	-6.53	-10.63	-13.99	-12.93	-17.36	-24.08	-21.74	-18.22	-15.98	-23.82	-19.89
θ (180°)	-16.59	-21.00	-20.78	-16.40	-11.64	-10.00	-8.25	-7.49	-7.90	-9.06	-11.05	-11.36	-15.47	-28.17	-25.56	-13.32	-10.15	-7.62	-7.23	-6.94	-6.88	-8.42	-8.86	-11.25	-16.59
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-1.04	-1.42	-2.43	-4.32	-7.20	-14.99	-31.44	-12.93	-7.28	-4.18	-2.13	-0.92	-0.56	-0.93	-1.92	-3.70	-6.40	-11.37	-20.32	-13.05	-8.13	-3.65	-2.98	-1.32
θ (15°)	-2.51	-2.43	-4.09	-6.39	-8.13	-10.94	-16.50	-18.87	-13.02	-8.97	-4.47	-3.43	-4.63	-4.87	-6.24	-8.34	-10.72	-17.71	-22.78	-11.69	-7.91	-5.25	-4.29	-3.91	-2.51
θ (30°)	-8.46	-12.82	-15.21	-12.19	-11.35	-14.57	-16.76	-23.22	-17.31	-13.58	-11.99	-21.40	-11.49	-11.31	-10.34	-7.89	-8.45	-12.68	-13.31	-8.01	-5.41	-5.91	-9.14	-9.12	-8.46
θ (45°)	-9.40	-10.71	-8.05	-9.11	-15.31	-22.52	-26.61	-13.23	-9.16	-9.72	-5.20	-3.20	-2.50	-0.10	-0.43	-1.33	-1.15	-11.96	-18.57	-8.76	-5.01	-2.19	-5.51	-4.52	-9.40
θ (60°)	-3.69	-3.64	-4.51	-4.69	-4.52	-15.48	-22.03	-10.75	-6.56	-3.65	-2.21	-1.51	0.83	2.34	2.37	2.50	0.40	-2.87	-19.44	-7.40	-3.74	-2.67	-1.47	-3.25	-3.69
θ (75°)	-1.61	-1.90	-0.30	-3.51	-11.56	-20.20	-8.87	-3.77	-0.30	-0.29	1.56	1.30	1.93	1.09	1.72	1.45	2.00	1.66	-10.33	-0.64	-1.39	-1.22	-3.19	-2.34	-1.61
θ (90°)	-0.12	-1.30	-2.46	-2.54	-15.74	-17.33	-6.12	-3.16	0.28	1.03	2.60	3.24	2.60	1.78	1.30	-3.02	1.59	[4.33]	1.23	0.10	3.44	2.82	-0.11	-1.51	-0.12
θ (105°)	-2.11	-2.83	-5.36	-5.59	-12.09	-16.25	-10.73	-4.22	-1.49	0.51	0.60	1.79	2.23	1.68	-1.61	-4.17	-2.25	0.76	-5.33	-3.00	-3.68	-2.46	-7.61	-3.20	-2.11
θ (120°)	-7.32	-6.21	-4.79	-10.85	-9.41	-6.30	-11.91	-10.75	-5.45	-4.11	-2.36	-0.91	-0.56	0.97	-1.09	0.77	-0.89	-2.60	-2.99	-7.58	-8.26	-6.27	-7.73	-10.02	-7.32
θ (135°)	-9.48	-5.65	-8.19	-5.90	-11.68	-15.55	-16.22	-13.77	-12.39	-6.49	-5.47	-5.82	-4.82	-3.57	-4.50	-3.73	-5.32	-6.83	-22.05	-14.34	-14.37	-5.90	-12.84	-9.71	-9.48
θ (150°)	-7.81	-4.19	-7.82	-8.31	-8.27	-11.43	-14.70	-17.86	-16.91	-16.62	-5.49	-12.08	-6.00	-3.20	-7.80	-9.18	-14.83	-14.88	-18.73	-15.61	-13.13	-24.80	-9.08	-11.16	-7.81
θ (165°)	-7.45	-5.22	-8.06	-7.75	-10.57	-16.56	-15.24	-16.36	-12.34	-12.29	-12.66	-7.30	-9.39	-16.57	-9.98	-10.35	-11.21	-10.69	-12.08	-14.33	-37.53	-14.46	-7.55	-9.07	-7.45
θ (180°)	-6.60	-7.51	-7.48	-8.36	-9.91	-13.00	-17.41	-24.18	-21.09	-16.56	-19.86	-10.45	-6.36	-5.72	-7.51	-10.43	-15.81	-14.93	-22.80	-19.78	-31.13	-15.11	-11.46	-7.20	-6.60

Directional Gain@1SS:

1SS																									
Freq. (MHz)	2400																								
Polarity	Theta																								
dB	ϕ																								
	ϕ (0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-10.74	-8.07	-2.42	1.23	3.53	4.73	5.06	4.82	4.05	2.46	-0.37	-5.31	-10.17	-7.60	-2.29	1.11	3.18	4.48	5.07	4.96	4.29	2.73	-0.21	-5.10	-10.74
θ (15°)	-1.39	-0.82	0.93	2.91	4.36	5.19	5.35	4.91	3.98	2.33	-0.08	-3.83	-7.55	-4.44	-1.29	1.05	2.66	3.65	4.04	3.82	3.00	1.51	-0.45	-1.24	-1.39
θ (30°)	3.11	2.87	2.74	3.43	4.25	4.93	5.31	5.13	4.20	2.90	1.83	0.88	0.23	0.90	1.92	2.44	3.13	3.81	4.20	4.38	4.26	3.78	3.31	3.12	3.11
θ (45°)	5.49	4.49	3.75	3.90	4.70	5.41	5.73	5.39	4.62	3.76	3.01	2.95	3.52	4.37	3.41	2.30	2.98	3.54	3.61	3.54	3.28	3.15	4.51	5.35	5.49
θ (60°)	5.42	4.61	3.28	3.26	3.63	3.99	4.45	4.17	4.00	3.75	3.25	3.52	4.43	5.13	2.87	2.26	3.46	2.60	2.51	2.08	2.47	3.00	2.14	4.76	5.42
θ (75°)	4.26	2.12	2.23	2.04	3.19	5.28	[5.76]	4.50	2.21	2.68	2.27	2.03	3.70	3.36	0.15	1.63	0.55	2.65	4.10	3.39	2.29	2.43	1.98	2.99	4.26
θ (90°)	2.94	0.44	2.04	1.40	1.14	3.32	4.04	3.18	1.22	0.72	1.62	-1.08	1.34	-0.13	0.14	0.31	-0.78	1.93	3.77	3.85	2.45	1.24	1.69	0.83	2.94
θ (105°)	0.88	-1.85	0.13	-1.15	-1.43	0.46	0.82	-0.71	-4.12	-2.67	0.21	-2.85	-1.14	-0.68	0.41	-0.01	-1.13	1.58	2.90	1.75	0.18	1.00	1.34	-0.11	0.88
θ (120°)	0.25	-0.44	-0.89	-2.22	-3.55	-3.08	-1.53	-3.40	-7.03	-5.85	-3.24	-1.40	-2.23	0.86	-1.18	-1.11	-1.96	-3.15	-1.50	-2.48	-2.59	-0.30	-1.13	0.67	0.25
θ (135°)	-1.61	0.19	-2.85	-6.97	-5.42	-6.15	-6.78	-6.95	-7.55	-6.75	-2.04	-2.11	-0.50	1.33	-1.22	-3.62	-1.90	-1.83	-1.77	-1.22	-1.02	-2.66	-1.19	0.29	-1.61
θ (150°)	-4.34	-2.95	-3.61	-6.54	-9.35	-5.96	-5.48	-7.68	-10.16	-7.93	-3.70	-1.64	-0.42	0.13	-0.89	-3.66	-5.22	-4.13	-1.88	-1.76	-3.63	-5.99	-4.16	-2.52	-4.34
θ (165°)	-7.65	-6.29	-4.15	-2.96	-2.21	-1.89	-2.70	-4.36	-5.71	-6.74	-7.95	-7.87	-6.24	-4.60	-3.49	-3.01	-3.26	-3.77	-4.15	-5.20	-5.88	-6.50	-7.13	-7.26	-7.65
θ (180°)	-10.25	-9.92	-8.83	-8.10	-7.89	-7.82	-8.24	-9.18	-10.73	-11.91	-11.16	-10.17	-10.07	-9.74	-8.83	-8.40	-8.24	-8.38	-8.63	-9.12	-9.70	-10.43	-10.49	-9.81	-10.25
Polarity	Phi																								
dB	ϕ																								
	ϕ (0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	4.74	4.40	3.39	1.60	-1.57	-8.01	-12.28	-6.69	-1.42	1.68	3.53	4.56	4.79	4.45	3.44	1.75	-0.80	-5.17	-8.26	-5.96	-1.87	1.09	3.08	4.22	4.74
θ (15°)	[4.79]	4.26	2.93	0.63	-3.08	-9.61	-13.67	-5.18	-1.11	1.43	3.17	4.21	4.47	3.76	2.10	-0.20	-3.09	-7.56	-10.96	-5.08	-0.75	1.72	3.38	4.27	4.79
θ (30°)	4.72	4.60	3.49	1.23	-2.41	-8.49	-16.97	-7.53	-2.40	0.03	1.49	3.02	3.83	3.35	1.92	0.31	-1.89	-5.83	-10.87	-9.65	-3.86	-0.59	1.71	3.58	4.72
θ (45°)	2.81	3.10	2.17	-0.15	-3.57	-9.68	-12.11	-7.36	-3.24	-0.51	1.08	2.21	2.47	1.24	0.44	-0.60	-4.22	-8.70	-10.00	-7.44	-3.08	-0.30	0.87	1.90	2.81
θ (60°)	1.58	1.11	1.62	0.42	-2.45	-6.93	-10.79	-5.60	-2.65	-0.57	0.82	0.66	1.18	0.60	-0.36	-2.23	-4.84	-3.30	-5.66	-7.47	-4.37	-0.09	0.63	0.12	1.58
θ (75°)	2.81	2.02	1.68	0.81	-1.27	-8.85	-6.98	-0.34	1.02	0.70	2.00	0.75	2.06	-0.55	0.64	-3.77	1.03	0.52	-5.27	-3.36	-1.58	-0.93	1.32	0.11	2.81
θ (90°)	3.33	2.24	2.93	1.49	0.40	-5.09	-6.11	0.72	2.81	1.75	2.17	1.61	2.58	0.52	1.99	-1.32	2.26	2.10	-4.87	-2.69	1.17	-1.54	1.73	0.71	3.33
θ (105°)	4.13	2.72	3.02	0.84	-0.50	-6.71	-5.05	1.87	2.51	-0.05	1.86	0.55	2.85	0.72	2.25	-0.78	1.98	0.17	-11.67	-1.69	-0.18	-0.64	3.03	2.02	4.13
θ (120°)	2.55	1.07	1.63	0.57	-2.58	-6.79	-12.39	-3.51	-0.47	-1.29	-0.61	-0.81	1.48	0.04	0.46	0.59	-1.09	-2.52	-9.88	-6.24	-3.22	-1.73	1.54	1.09	2.55
θ (135°)	-0.81	-2.02	-2.50	-3.72	-6.73	-10.91	-13.56	-7.86	-5.20	-1.64	-1.15	-3.56	-1.45	-1.58	-1.41	-1.40	-3.65	-6.66	-10.82	-10.74	-6.24	-2.37	-1.50	-1.36	-0.81
θ (150°)	-2.52	-4.39	-7.70	-8.73	-9.92	-12.58	-11.09	-8.18	-7.94	-7.39	-5.28	-3.93	-2.11	-2.26	-3.97	-5.39	-5.30	-6.43	-9.37	-10.80	-7.60	-5.51	-4.03	-2.93	-2.52
θ (165°)	-7.57	-8.35	-8.63	-10.02	-12.27	-12.12	-10.17	-7.57	-7.24	-9.09	-8.28	-6.22	-5.96	-7.07	-9.36	-10.69	-11.10	-12.14	-10.58	-8.79	-7.97	-7.18	-6.19	-6.19	-7.57
θ (180°)	-7.68	-8.52	-10.20	-11.93	-12.21	-13.11	-14.12	-11.82	-9.65	-8.89	-8.48	-8.10	-8.22	-9.30	-10.45	-10.13	-9.30	-8.96	-8.91	-9.40	-8.99	-7.97	-7.60	-7.23	-7.68

1SS																									
Freq (MHz)	2450																								
Polarity	Theta																								
dB	φ																								
	φ (0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-12.31	-9.94	-2.80	0.71	3.04	4.48	4.97	4.92	4.15	2.40	-0.35	-4.84	-12.74	-9.33	-2.83	0.77	3.13	4.34	4.66	4.64	4.07	2.45	-0.16	-4.58	-12.31
θ (15°)	-3.75	-3.05	-0.94	1.12	2.82	3.78	4.06	3.82	2.99	1.37	-0.62	-3.07	-6.32	-4.04	-1.44	0.31	1.61	2.50	2.71	2.26	1.51	0.18	-1.73	-3.22	-3.75
θ (30°)	1.05	1.41	2.36	2.93	3.49	4.08	4.40	4.11	3.41	2.79	2.00	0.71	-0.20	-0.24	0.45	1.59	2.67	3.50	4.02	4.23	4.07	3.36	2.39	1.63	1.05
θ (45°)	3.95	3.55	3.85	4.00	4.33	4.42	4.41	4.34	4.21	3.82	3.34	2.37	2.60	3.28	3.68	3.28	2.95	3.17	3.33	3.21	3.57	4.66	4.91	4.53	3.95
θ (60°)	4.26	3.42	3.45	3.59	3.53	3.66	3.77	3.54	3.75	3.90	3.69	3.44	3.01	4.00	4.07	3.07	3.80	4.08	4.21	3.83	3.57	3.24	3.91	4.39	4.26
θ (75°)	3.32	1.90	1.55	1.83	2.92	5.52	[6.08]	4.67	2.55	2.32	1.76	1.24	1.71	2.13	1.27	2.48	3.13	4.35	5.63	4.99	3.64	3.10	2.21	2.63	3.32
θ (90°)	1.72	0.01	0.15	0.82	2.17	4.00	4.53	3.96	2.37	0.86	0.29	-1.66	-0.13	-1.84	-0.99	-0.97	-0.01	2.17	3.54	3.71	2.90	1.76	0.89	0.91	1.72
θ (105°)	-1.22	-1.20	-1.54	-1.99	-0.44	1.05	1.41	0.01	-1.24	-2.56	-0.56	-2.32	-2.04	-1.38	-1.06	-1.99	-1.16	0.70	1.86	0.67	-0.78	-1.20	-0.80	-0.74	-1.22
θ (120°)	-2.06	-0.66	-0.09	-2.70	-5.66	-3.24	-1.16	-2.83	-5.49	-4.57	-1.38	-0.75	-3.98	-1.33	-1.15	-3.32	-4.91	-4.61	-2.01	-3.44	-3.56	-2.53	-1.75	-0.11	-2.06
θ (135°)	-4.91	-0.71	-2.29	-4.44	-5.58	-6.29	-5.87	-5.67	-4.95	-4.01	-2.10	-2.08	-3.58	-1.96	-2.63	-5.33	-6.64	-5.36	-4.81	-4.71	-5.86	-7.73	-4.31	-3.42	-4.91
θ (150°)	-6.98	-4.08	-3.89	-7.89	-8.39	-5.05	-4.65	-5.92	-7.74	-8.91	-4.90	-2.03	-2.03	-2.01	-2.84	-4.95	-7.42	-8.55	-6.31	-6.33	-8.77	-11.89	-7.27	-6.08	-6.98
θ (165°)	-11.75	-9.04	-6.99	-6.05	-5.39	-4.77	-4.52	-5.28	-5.88	-6.24	-7.16	-8.90	-10.76	-9.51	-6.17	-3.19	-1.25	0.00	0.53	0.25	-0.95	-3.62	-7.68	-10.83	-11.75
θ (180°)	-11.38	-13.07	-15.11	-15.89	-13.41	-11.20	-9.98	-8.37	-7.49	-7.83	-8.19	-9.04	-11.00	-13.65	-16.10	-16.01	-12.69	-9.88	-7.87	-7.01	-6.68	-6.51	-6.83	-8.01	-11.38
Polarity	Phi																								
dB	φ																								
	φ (0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	4.90	4.83	3.95	2.09	-1.04	-6.11	-11.84	-6.38	-0.86	1.84	3.50	4.63	4.99	4.65	3.59	1.77	-1.29	-7.03	-12.19	-8.11	-1.92	1.36	3.26	4.28	4.90
θ (15°)	4.88	4.35	2.97	0.83	-2.43	-8.80	-13.98	-6.96	-2.24	0.69	2.56	3.90	4.40	3.85	2.30	-0.30	-4.27	-10.41	-12.73	-4.67	-0.69	1.85	3.57	4.34	4.88
θ (30°)	4.32	3.85	2.44	0.30	-2.97	-9.42	-17.87	-6.66	-2.49	-0.60	0.69	2.26	3.37	2.90	0.98	-0.59	-2.41	-6.57	-12.01	-8.97	-3.52	-0.44	1.47	3.25	4.32
θ (45°)	2.91	2.11	0.96	-0.68	-4.24	-10.88	-16.97	-7.27	-3.12	-0.19	0.33	1.01	2.02	0.75	-0.04	-0.78	-4.25	-9.93	-14.33	-7.60	-3.48	-0.26	1.16	2.00	2.91
θ (60°)	2.96	2.25	0.99	0.34	-2.39	-6.34	-13.36	-5.81	-2.37	0.38	0.98	1.09	2.70	1.81	1.17	-0.50	-3.08	-5.15	-9.60	-6.21	-1.29	0.67	1.61	1.50	2.96
θ (75°)	4.77	3.51	2.85	2.09	-0.31	-6.32	-7.47	-0.49	1.09	2.07	1.89	2.88	3.90	2.54	2.95	1.07	2.13	0.49	-8.50	-1.70	1.37	2.63	3.53	2.79	4.77
θ (90°)	[5.44]	4.74	3.15	2.67	1.37	-2.59	-7.84	1.07	4.35	2.98	2.63	3.03	3.80	3.49	3.41	2.66	4.59	3.37	-5.45	-2.83	2.53	2.04	3.83	3.65	5.44
θ (105°)	4.21	3.24	2.55	1.51	0.45	-4.79	-4.60	2.42	4.00	2.12	2.15	2.91	3.19	1.89	2.47	2.47	3.96	1.72	-8.62	-2.77	1.11	1.25	3.43	3.03	4.21
θ (120°)	1.87	0.99	1.54	0.57	-1.45	-4.60	-8.94	-1.46	0.81	0.04	0.18	0.21	0.94	0.97	0.12	0.86	0.63	-0.63	-7.21	-9.60	-2.68	-1.15	1.48	0.95	1.87
θ (135°)	-1.75	-2.04	-1.24	-1.71	-4.69	-8.97	-11.01	-5.58	-3.84	-2.26	-1.92	-3.89	-2.72	-2.50	-2.23	-1.68	-2.95	-5.97	-14.34	-12.95	-5.81	-2.00	-1.04	-2.00	-1.75
θ (150°)	-4.36	-3.26	-3.78	-4.29	-5.83	-8.86	-13.45	-13.76	-8.76	-6.90	-5.58	-4.42	-4.04	-5.37	-7.54	-6.43	-5.25	-6.49	-11.44	-12.59	-7.38	-4.17	-3.47	-5.22	-4.36
θ (165°)	-9.27	-5.91	-4.97	-5.78	-7.26	-10.43	-13.87	-12.76	-10.06	-8.13	-7.39	-7.88	-9.35	-9.16	-6.59	-4.90	-5.29	-8.03	-12.09	-12.05	-7.19	-5.90	-7.06	-9.53	-9.27
θ (180°)	-8.15	-7.66	-7.45	-7.81	-8.32	-9.81	-12.23	-14.71	-15.37	-14.67	-11.21	-8.02	-6.75	-6.31	-5.73	-5.84	-6.94	-7.89	-8.60	-11.01	-15.19	-14.91	-11.75	-9.27	-8.15

1SS																									
Freq. (MHz)	2500																								
Polarity	Theta																								
dB	Φ																								
	(0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-11.88	-8.78	-2.03	1.27	3.00	4.02	4.63	4.40	3.53	2.08	-0.40	-4.81	-12.18	-9.00	-2.22	1.14	3.02	4.07	4.56	4.49	3.82	2.63	0.47	-3.58	-11.88
θ (15°)	-4.15	-3.23	-0.57	1.89	3.24	3.71	3.92	3.88	3.36	2.12	0.21	-2.22	-4.62	-3.67	-1.13	0.75	1.87	2.39	2.51	2.35	1.66	0.35	-1.66	-3.46	-4.15
θ (30°)	0.59	1.14	1.96	2.85	3.63	3.99	3.90	3.77	3.55	3.09	2.31	1.13	0.06	-0.33	0.78	1.79	2.59	3.21	3.73	3.92	3.67	3.14	2.21	1.13	0.59
θ (45°)	3.20	3.68	4.23	4.48	4.36	4.07	4.11	4.40	4.54	4.11	3.52	2.81	2.31	2.98	3.60	3.61	3.14	3.13	3.10	3.11	3.88	4.63	4.35	3.79	3.20
θ (60°)	3.49	3.39	4.02	4.36	3.88	3.87	4.53	3.72	3.49	4.31	4.21	3.78	2.83	3.81	4.15	3.06	2.99	3.93	4.53	4.11	3.03	2.85	4.33	4.14	3.49
θ (75°)	1.66	2.04	2.61	2.33	4.05	6.64	[7.17]	5.81	2.59	2.98	2.73	1.57	0.70	1.85	1.63	1.56	3.10	5.07	6.01	5.45	3.61	2.00	2.67	1.90	1.66
θ (90°)	-1.11	-1.40	0.33	0.38	2.76	4.67	5.18	4.63	2.69	0.72	0.67	-1.62	-2.99	-3.59	-1.75	-2.27	-0.10	1.60	2.64	3.13	2.85	1.14	0.41	0.53	-1.11
θ (105°)	-4.56	-0.99	-2.07	-2.29	-1.03	0.29	0.63	-0.64	-2.18	-3.00	-1.19	-2.32	-4.70	-1.32	-2.86	-4.20	-3.56	-2.14	-0.61	-1.35	-2.30	-2.81	-1.84	0.03	-4.56
θ (120°)	-4.57	0.35	1.05	-2.60	-6.08	-5.04	-2.72	-5.01	-5.97	-3.48	-0.29	0.66	-4.66	0.45	-0.48	-5.21	-6.75	-6.09	-2.96	-4.00	-6.46	-7.45	-2.12	1.01	-4.57
θ (135°)	-5.05	0.69	-0.58	-3.87	-5.04	-5.48	-4.78	-5.57	-4.67	-2.78	-0.17	-0.29	-5.44	-0.38	-0.58	-4.34	-7.37	-6.71	-5.44	-5.81	-7.87	-5.66	-1.42	-0.80	-5.05
θ (150°)	-5.49	-3.19	-2.74	-6.06	-6.56	-5.32	-5.33	-6.51	-7.75	-7.20	-3.17	-1.80	-4.88	-5.51	-3.68	-5.14	-6.41	-5.61	-4.55	-4.83	-6.68	-8.62	-3.34	-2.65	-5.49
θ (165°)	-11.53	-8.38	-5.87	-4.45	-3.85	-3.59	-3.57	-4.17	-6.02	-7.31	-7.62	-8.15	-9.81	-11.23	-7.93	-4.90	-2.61	-0.97	-0.42	-0.80	-2.21	-5.26	-9.44	-10.78	-11.53
θ (180°)	-14.14	-14.47	-14.41	-12.51	-10.81	-9.63	-8.63	-7.97	-7.83	-7.98	-8.95	-11.22	-14.34	-16.75	-14.98	-11.96	-9.98	-9.00	-7.95	-7.12	-7.00	-7.02	-7.99	-10.52	-14.14
Polarity	Phi																								
dB	Φ																								
	(0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	4.67	4.42	3.44	1.78	-0.77	-5.24	-11.01	-6.03	-1.07	1.68	3.32	4.17	4.47	4.20	3.40	1.90	-0.77	-5.77	-13.76	-7.87	-1.55	1.55	3.27	4.32	4.67
θ (15°)	4.46	4.00	2.87	0.87	-2.67	-9.42	-11.03	-5.07	-0.90	1.68	3.21	3.84	3.98	3.64	2.54	0.60	-2.87	-8.89	-11.21	-4.80	-0.51	2.14	3.59	4.18	4.46
θ (30°)	3.96	3.67	2.42	-0.18	-3.48	-8.88	-14.69	-7.54	-3.09	-1.06	1.54	2.61	3.06	2.80	1.27	-0.20	-1.90	-6.05	-11.47	-8.36	-3.46	-0.56	1.54	3.08	3.96
θ (45°)	3.18	1.81	0.01	-0.36	-3.78	-10.53	-17.98	-7.89	-3.13	-0.76	-0.10	1.64	1.87	0.83	0.34	-0.23	-3.10	-8.29	-15.55	-8.03	-3.50	-0.57	0.82	1.95	3.18
θ (60°)	3.21	1.69	0.35	-0.10	-4.41	-6.64	-12.64	-8.11	-4.96	-0.24	0.70	-0.11	2.58	0.97	1.53	-0.58	-2.43	-3.84	-8.22	-5.87	-1.83	-0.58	1.29	0.02	3.21
θ (75°)	4.36	0.95	2.53	-1.30	-2.19	-4.92	-11.69	-2.39	-2.22	-0.23	1.30	1.62	3.38	1.33	2.25	0.28	2.62	0.63	-9.65	-2.20	1.04	1.39	2.85	0.77	4.36
θ (90°)	4.55	2.72	2.30	0.03	-0.12	-1.76	-9.72	0.65	2.82	-0.53	1.68	0.46	3.51	1.09	2.15	1.06	[4.86]	3.69	-4.15	-3.93	2.62	1.10	2.76	2.47	4.55
θ (105°)	3.41	0.41	1.85	-0.42	-0.23	-3.73	-5.27	2.36	3.04	0.78	0.63	0.98	1.96	-0.14	1.40	1.59	4.62	2.54	-6.94	-2.08	1.54	-0.02	2.40	1.44	3.41
θ (120°)	1.36	-0.59	0.84	-0.37	-1.41	-4.16	-9.31	-1.36	0.32	-0.62	-0.95	-1.86	-0.37	-1.39	0.17	-0.07	1.04	0.64	-6.05	-8.50	-3.47	-1.56	0.90	-0.65	1.36
θ (135°)	-0.95	-2.02	0.04	-0.75	-3.91	-8.12	-10.18	-4.89	-4.20	-2.61	-1.81	-4.66	-2.97	-3.15	-2.36	-2.28	-3.31	-5.14	-11.13	-10.95	-5.61	-1.55	-0.76	-2.38	-0.95
θ (150°)	-2.36	-2.45	-3.31	-2.80	-4.16	-7.84	-13.61	-12.98	-7.04	-4.28	-4.12	-3.88	-2.99	-4.46	-6.61	-4.55	-4.45	-6.84	-12.49	-12.46	-7.43	-3.80	-2.99	-3.75	-2.36
θ (165°)	-8.56	-5.19	-3.78	-3.77	-5.30	-9.07	-11.85	-11.64	-7.74	-4.98	-4.69	-6.23	-7.60	-6.70	-5.12	-3.66	-3.68	-5.66	-9.92	-11.59	-6.57	-5.28	-6.87	-9.59	-8.56
θ (180°)	-7.17	-6.69	-6.66	-7.72	-9.72	-11.51	-12.81	-14.21	-14.07	-12.83	-9.95	-7.52	-6.41	-5.57	-5.52	-6.58	-8.19	-10.21	-12.32	-14.81	-16.45	-12.56	-9.20	-7.71	-7.17

1SS																									
Freq. (MHz)	5150																								
Polarity	Theta																								
dB	φ (0°)	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	1.04	1.04	1.15	1.62	2.03	2.10	2.47	2.46	2.63	2.56	2.55	1.95	1.26	0.88	0.73	0.74	1.26	1.55	2.14	2.40	2.40	2.25	1.89	1.57	1.04
θ (15°)	0.43	1.79	2.87	2.92	2.73	2.57	1.92	1.80	1.47	1.27	1.78	2.77	2.96	2.14	0.60	-1.14	-1.69	-0.79	0.53	1.77	2.23	2.58	2.00	1.17	0.43
θ (30°)	1.36	2.54	2.56	2.91	3.10	2.55	1.21	0.38	1.02	2.17	2.78	2.99	4.90	3.79	1.41	-0.02	-0.95	-2.38	-2.30	-0.79	0.02	-0.02	-0.17	0.87	1.36
θ (45°)	0.85	1.90	2.08	3.23	3.98	3.62	3.12	1.96	1.49	1.28	2.62	2.73	4.02	2.29	2.29	0.54	-0.28	-0.74	-0.23	-0.55	-1.59	-3.27	-4.95	-1.48	0.85
θ (60°)	-0.56	0.61	-1.80	0.80	1.21	0.36	-0.64	-0.73	0.84	2.37	2.81	2.94	4.70	3.60	1.31	1.60	0.58	-1.13	-4.44	-11.24	-5.37	-5.24	-5.24	-5.23	-0.56
θ (75°)	-2.42	-0.46	0.05	1.25	1.34	-0.16	0.14	-0.66	0.77	2.65	4.12	5.95	6.69	5.62	3.20	-1.17	-0.25	-2.79	-2.70	-2.69	-4.96	-4.33	-4.19	-5.06	-2.42
θ (90°)	-5.13	-1.81	-3.97	-0.39	-0.38	1.50	1.83	0.74	0.89	2.89	3.73	3.74	4.80	3.25	1.95	1.98	-1.58	-1.48	-1.38	-1.44	-1.70	-5.00	-6.93	-5.78	-5.13
θ (105°)	1.11	3.64	2.32	1.74	0.32	1.14	1.40	0.85	2.29	2.31	5.74	[7.09]	7.05	6.38	4.26	0.99	-2.13	-0.57	-1.88	-1.65	-2.65	-5.72	-3.84	-2.40	1.11
θ (120°)	0.90	1.45	0.76	0.39	2.54	2.46	1.15	-1.09	2.23	2.46	2.24	3.52	5.37	3.92	0.63	0.93	0.64	0.61	0.95	1.34	0.90	0.18	-0.97	-0.11	0.90
θ (135°)	3.48	2.45	1.24	2.71	2.43	1.58	0.84	-1.42	-1.70	1.39	1.61	2.29	1.65	0.84	1.79	2.35	0.32	0.96	1.87	2.23	2.43	2.74	2.06	0.02	3.48
θ (150°)	5.58	5.15	4.86	2.93	2.10	1.58	-0.90	-3.51	-3.81	-0.45	2.53	3.52	3.92	4.12	2.86	0.73	-2.95	-6.12	-5.82	-3.44	-1.16	0.71	3.06	4.59	5.58
θ (165°)	4.01	3.33	2.46	1.25	-0.82	-3.74	-6.05	-8.28	-8.75	-6.18	-2.79	-1.12	-0.56	0.36	0.41	-2.01	-6.93	-9.46	-6.88	-5.85	-5.35	-1.60	2.10	3.44	4.01
θ (180°)	-1.15	-1.00	-1.43	-2.56	-3.75	-5.01	-6.03	-6.60	-5.65	-4.88	-3.38	-2.78	-2.44	-2.32	-2.86	-3.89	-5.02	-6.35	-7.51	-6.95	-5.71	-4.56	-3.74	-2.52	-1.15
Polarity	Phi																								
dB	φ (0°)	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	2.29	2.28	2.35	2.23	1.96	1.33	0.91	0.79	0.76	1.09	1.17	1.50	1.91	2.16	2.49	2.64	2.20	1.74	1.20	0.82	0.93	1.06	1.42	1.94	2.29
θ (15°)	2.30	2.24	1.57	0.82	0.39	-0.02	0.24	1.00	2.16	2.99	2.68	2.22	2.03	2.45	2.88	3.10	2.96	2.37	1.50	0.73	-0.63	-1.57	-1.03	0.63	2.30
θ (30°)	2.20	1.76	0.91	0.41	1.20	2.34	2.56	2.38	2.31	2.46	2.77	3.15	2.38	2.20	3.05	3.74	[3.74]	2.98	1.98	1.56	0.63	-0.76	-0.87	-0.24	2.20
θ (45°)	1.39	0.73	-1.00	-1.20	-2.96	-1.68	0.27	1.27	1.29	0.46	0.49	1.60	1.36	0.89	1.89	1.81	1.22	1.92	0.99	-0.14	-1.12	-1.30	-1.06	-0.93	1.39
θ (60°)	-0.77	-1.37	-1.47	-4.14	-3.46	0.18	1.60	0.90	1.07	0.72	-0.70	-1.65	-1.09	-1.46	-0.58	1.31	2.08	2.49	2.53	1.16	-0.05	-3.59	-3.17	-3.61	-0.77
θ (75°)	-1.61	-1.22	-0.18	-4.11	-5.23	-1.63	-0.64	-1.33	-1.08	-0.45	-1.52	-1.63	-2.29	-2.88	-3.45	-0.09	0.13	0.16	0.89	-0.24	-3.07	0.94	-2.07	-2.96	-1.61
θ (90°)	-2.45	-3.25	-1.47	-3.09	-4.16	2.03	2.60	0.25	-2.99	-1.32	-0.64	-1.35	-3.05	-3.63	-3.11	-2.08	-1.07	-2.84	2.65	2.81	1.79	0.10	-2.69	-1.99	-2.45
θ (105°)	-3.55	-2.38	-2.16	-3.22	-4.54	2.40	-0.01	-2.98	-2.68	-5.72	-5.11	-4.00	-3.86	-4.70	-5.02	-3.48	0.52	0.46	3.57	3.06	0.98	-0.97	-1.91	-4.20	-3.55
θ (120°)	-4.70	-3.00	-3.56	-0.46	-0.98	-1.50	-2.46	-3.52	-3.41	0.51	-1.99	-5.37	-5.71	-6.07	-7.67	-2.93	-0.31	1.10	1.45	1.05	0.39	0.87	-1.50	-3.54	-4.70
θ (135°)	-5.21	-6.71	-5.91	-0.64	1.90	0.48	-1.54	-2.42	0.60	0.72	-3.27	-2.19	-4.71	-3.16	-1.30	1.28	1.76	-0.54	-1.91	-0.30	-0.37	-0.58	-0.73	-1.61	-5.21
θ (150°)	-2.77	-5.86	-4.48	-1.51	0.14	-0.17	-1.42	-2.54	-2.15	-0.60	-0.09	-2.15	-6.28	-2.86	0.67	0.89	0.98	0.34	-2.70	-0.98	1.75	2.33	1.33	1.47	-2.77
θ (165°)	-4.60	-3.41	-1.69	-1.56	-2.07	-3.12	-4.10	-4.92	-5.42	-4.86	-5.78	-7.07	-7.34	-5.09	-3.21	-1.58	-1.17	-2.12	-4.23	-4.81	-3.03	-1.02	-0.66	-1.90	-4.60
θ (180°)	-8.44	-6.92	-6.02	-5.58	-4.78	-3.82	-2.32	-1.73	-1.72	-2.65	-3.95	-5.05	-6.43	-5.94	-5.42	-5.17	-5.03	-4.15	-3.78	-3.19	-3.48	-3.75	-4.59	-6.78	-8.44

1SS																									
Freq. (MHz)	5250																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	0.96	0.85	1.48	2.26	2.79	3.33	3.15	3.13	2.50	2.05	1.38	0.94	0.35	0.13	0.52	1.17	1.92	2.63	3.01	2.98	2.65	2.18	1.69
θ (15°)	-0.20	0.78	2.27	2.73	2.75	2.48	2.26	1.45	1.46	1.48	1.70	2.44	2.85	2.17	1.04	0.34	0.20	0.51	1.05	1.62	2.09	2.00	1.53	0.64	-0.20
θ (30°)	0.35	2.67	2.55	2.58	3.63	3.22	2.38	0.95	1.19	0.84	1.68	3.43	4.94	3.97	2.43	1.87	1.28	-0.13	-1.05	-0.46	0.57	1.34	0.96	0.12	0.35
θ (45°)	0.97	2.26	2.12	3.00	4.10	3.72	2.76	1.36	0.18	0.20	1.88	3.71	4.38	3.04	2.69	1.16	-0.69	-0.59	-1.17	-1.53	-2.14	-1.79	-3.68	-2.06	0.97
θ (60°)	-0.19	0.30	-0.96	0.08	1.48	1.61	1.08	1.29	0.58	1.36	1.69	2.91	4.98	2.96	2.20	1.79	0.87	0.40	-1.90	-4.96	-5.05	-4.20	-6.49	-6.44	-0.19
θ (75°)	-2.08	-0.81	-1.29	0.49	2.50	1.90	2.26	0.71	1.51	1.45	4.40	6.09	[7.01]	4.74	3.84	0.13	0.63	-1.30	-2.41	-3.45	-4.61	-4.78	-3.04	-4.58	-2.08
θ (90°)	-4.95	-1.71	-2.99	0.62	0.92	1.93	2.41	1.39	0.48	2.10	2.38	3.08	4.91	3.04	1.78	1.24	1.09	-0.11	0.55	-0.09	-1.20	-3.00	-7.29	-3.19	-4.95
θ (105°)	0.79	3.17	2.32	2.37	1.65	3.25	2.87	-0.03	2.58	1.17	5.43	6.83	6.52	5.10	4.11	0.63	-2.94	-0.28	-0.29	-0.51	-1.12	-5.03	-2.29	-3.34	0.79
θ (120°)	0.59	1.91	0.70	2.31	4.00	3.48	2.05	-0.76	2.06	1.31	0.60	3.46	5.37	3.69	0.09	-0.90	0.66	0.81	0.47	0.77	0.83	0.64	-0.59	0.40	0.59
θ (135°)	3.40	2.93	1.55	3.45	3.51	3.05	1.77	-0.67	-1.66	1.23	0.66	1.63	0.88	-0.72	1.85	2.31	-0.91	0.52	1.90	2.38	1.94	1.96	1.71	-0.46	3.40
θ (150°)	5.82	5.55	4.56	3.42	2.45	1.13	-1.32	-4.33	-5.13	-1.41	1.45	2.70	4.35	4.33	2.62	0.47	-3.42	-6.19	-5.42	-3.19	-0.98	0.95	2.95	4.28	5.82
θ (165°)	4.33	3.62	2.28	0.56	-2.03	-4.28	-6.62	-8.62	-9.29	-7.46	-3.19	-0.20	1.25	1.69	0.70	-2.40	-6.98	-7.39	-6.55	-5.69	-4.45	-1.20	1.80	3.31	4.33
θ (180°)	-0.67	-0.80	-1.62	-2.81	-4.42	-6.11	-7.87	-6.62	-5.08	-3.79	-2.29	-2.24	-2.53	-2.54	-2.91	-4.25	-5.74	-7.73	-8.63	-6.36	-4.77	-3.34	-2.40	-1.56	-0.67
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	3.61	3.58	3.19	2.66	1.98	1.41	0.67	0.21	0.91	1.55	2.42	2.84	3.23	2.98	2.39	1.87	1.06	0.38	-0.11	0.23	1.41	2.39	3.08
θ (15°)	3.33	3.31	2.37	1.87	1.51	0.74	0.73	1.53	2.58	3.38	3.86	3.57	3.33	3.08	3.10	3.12	2.87	2.38	1.37	0.57	-0.22	-0.79	0.21	1.73	3.33
θ (30°)	2.57	2.43	2.16	1.24	0.35	1.31	1.43	1.08	1.77	2.65	3.17	[3.88]	3.11	2.11	2.53	3.67	3.67	3.09	2.43	2.10	1.56	0.05	-0.30	-0.25	2.57
θ (45°)	1.79	1.90	-0.40	-1.02	-2.09	-0.67	0.06	0.21	0.61	0.56	1.23	2.75	2.78	1.60	2.53	1.70	1.11	1.64	0.80	0.80	1.08	-0.44	-0.42	-0.78	1.79
θ (60°)	-0.31	0.37	-0.29	-2.68	-2.46	0.15	0.98	-0.18	1.04	0.90	0.04	-0.06	-0.28	-0.46	0.64	1.59	2.42	2.27	2.89	2.29	-0.06	-1.92	-1.67	-1.42	-0.31
θ (75°)	-1.10	0.23	0.14	-2.95	-4.46	-2.51	-1.68	-1.32	-1.03	-0.28	-1.98	-1.61	-1.85	-2.52	-1.91	-0.26	0.37	0.97	1.05	0.71	-4.10	1.54	-1.14	-2.48	-1.10
θ (90°)	-1.01	-3.50	-1.02	-1.82	-3.23	1.69	2.72	-0.19	-3.82	-0.74	0.20	-1.76	-2.73	-2.73	-2.60	-1.84	-1.50	-1.40	2.82	3.17	1.86	1.31	-1.34	-1.21	-1.01
θ (105°)	-1.79	-0.72	-1.89	-3.22	-3.24	2.30	0.00	-4.31	-2.86	-4.94	-5.05	-2.63	-2.08	-1.80	-2.87	-4.69	1.06	0.11	3.28	3.27	1.05	-0.77	-0.27	-2.62	-1.79
θ (120°)	-2.53	-2.04	-2.85	-1.46	-1.33	-2.67	-3.91	-3.53	-1.25	0.61	-2.83	-3.19	-3.40	-3.96	-4.96	-2.43	-1.27	0.79	1.92	2.27	1.03	-0.19	-0.54	-2.47	-2.53
θ (135°)	-3.96	-4.52	-4.02	-0.52	0.69	-0.27	-1.69	-1.74	0.73	1.38	-0.99	-2.79	-3.65	-1.45	-0.40	2.45	2.60	-0.55	-1.42	-0.43	0.11	-0.91	-1.38	-2.12	-3.96
θ (150°)	-1.90	-4.88	-3.74	-0.85	0.85	0.40	-1.32	-3.79	-3.62	-1.75	0.38	-0.45	-5.21	-1.81	1.13	0.65	1.31	0.54	-1.52	-0.62	1.69	2.27	1.97	1.63	-1.90
θ (165°)	-3.89	-2.42	-0.99	-1.25	-1.77	-3.11	-5.01	-6.87	-8.53	-7.71	-6.56	-6.23	-6.42	-4.16	-1.98	-1.32	-1.69	-3.09	-4.99	-5.37	-3.32	-1.06	-0.27	-0.81	-3.89
θ (180°)	-8.52	-6.63	-5.58	-4.77	-3.50	-3.04	-1.94	-1.58	-1.55	-2.84	-3.86	-5.80	-7.79	-6.42	-4.80	-3.88	-3.53	-3.89	-3.57	-3.54	-3.46	-4.22	-5.25	-7.32	-8.52

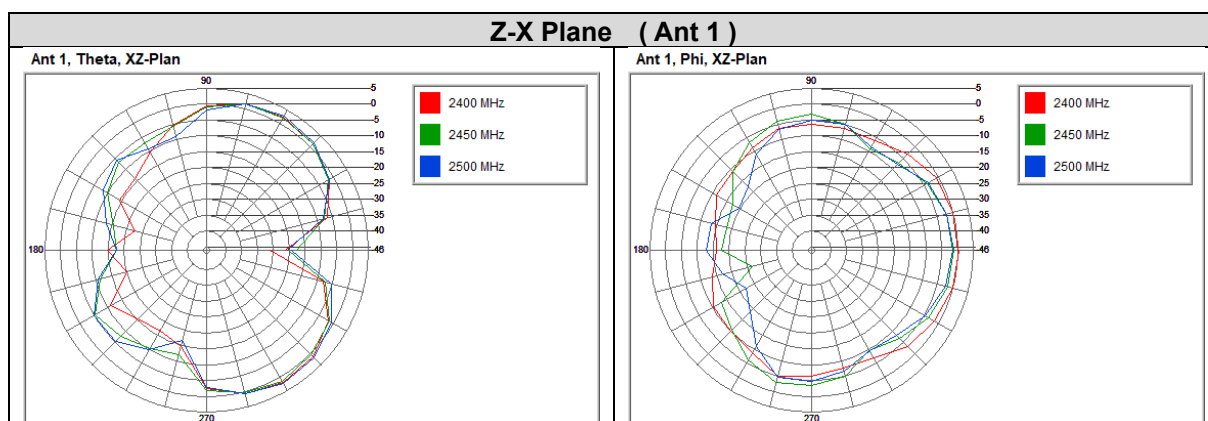
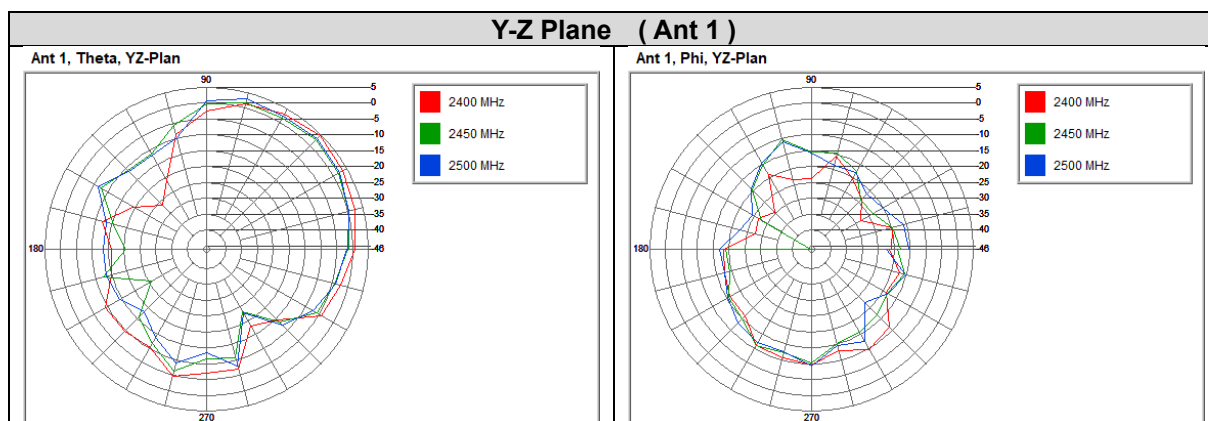
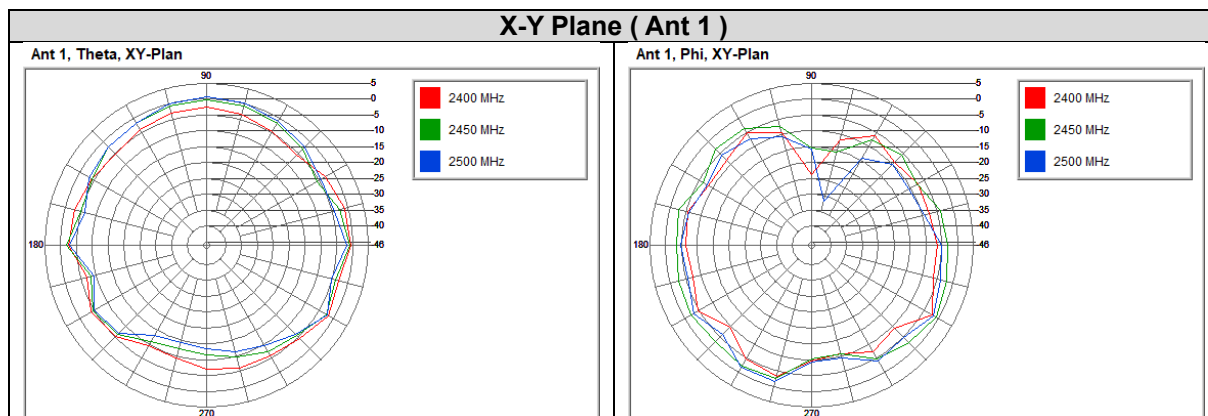
1SS																									
Freq. (MHz)	5350																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	-0.58	-0.51	0.40	1.66	3.00	3.59	4.15	3.83	3.58	2.82	2.06	1.03	0.13	-0.16	0.21	1.08	2.27	3.06	3.78	3.87	3.72	2.88	1.90
θ (15°)	-0.77	-1.62	0.64	1.87	2.70	2.99	2.36	1.42	0.36	0.36	0.43	0.46	1.12	0.78	0.61	0.51	0.68	1.04	1.42	1.89	2.21	2.45	2.07	1.40	-0.77
θ (30°)	-0.73	0.50	1.25	1.72	2.86	2.46	0.89	-0.08	0.37	0.71	1.84	2.88	4.30	4.13	2.55	1.78	1.49	0.83	0.21	-0.52	0.06	1.36	1.67	0.73	-0.73
θ (45°)	0.41	0.76	1.77	2.40	3.26	2.78	2.12	0.73	0.57	0.68	1.91	3.32	4.30	3.07	2.72	1.52	1.19	0.76	-0.07	-0.93	-2.38	-2.19	-2.30	-1.77	0.41
θ (60°)	-0.97	-1.87	-1.30	-1.20	0.98	2.18	2.36	2.09	1.34	0.66	0.37	2.42	3.98	2.02	0.74	1.29	1.18	-0.21	-0.19	-1.02	-2.57	-3.04	-5.41	-5.42	-0.97
θ (75°)	-3.27	-2.52	-1.90	-0.06	2.61	2.90	3.11	1.65	1.42	0.49	3.16	5.16	[6.19]	3.64	3.36	0.78	0.07	-1.25	-0.04	-0.85	-5.42	-4.19	-2.80	-4.98	-3.27
θ (90°)	-5.84	-3.70	-2.97	1.55	1.47	2.42	3.04	2.15	0.29	1.72	0.83	2.55	4.71	3.27	0.46	0.29	1.92	0.65	1.65	1.49	0.35	-0.50	-4.77	-2.89	-5.84
θ (105°)	-0.62	1.67	2.49	2.81	1.59	3.63	3.22	-0.01	2.04	0.38	4.12	5.44	5.28	3.44	3.40	-0.02	-1.43	0.27	1.71	0.99	-0.58	-3.47	-1.08	-4.26	-0.62
θ (120°)	-1.23	1.38	0.52	2.88	4.25	3.32	1.80	-1.22	1.36	0.63	0.46	3.16	3.60	3.43	0.37	-2.45	-0.33	0.45	-0.04	0.68	0.46	0.76	-0.17	0.15	-1.23
θ (135°)	0.59	2.39	0.96	3.38	4.31	3.45	1.99	-1.39	-1.84	-0.25	-0.57	0.21	-0.88	-1.03	0.56	0.53	-2.91	-0.86	1.05	1.70	1.10	0.61	0.89	-0.95	0.59
θ (150°)	4.34	4.69	4.00	3.13	1.76	0.20	-2.08	-5.24	-6.24	-3.29	-0.92	1.39	3.13	3.06	1.31	-0.28	-4.29	-6.18	-6.01	-3.55	-1.21	0.85	2.34	3.62	4.34
θ (165°)	3.16	2.27	1.09	-0.79	-3.12	-4.78	-6.87	-8.52	-8.03	-7.50	-4.31	-0.30	1.62	1.63	-0.28	-3.64	-8.59	-7.41	-6.37	-5.67	-4.27	-0.75	1.81	2.77	3.16
θ (180°)	-0.52	-1.17	-2.41	-4.01	-6.12	-8.34	-8.45	-5.80	-4.09	-2.68	-1.69	-1.54	-2.06	-2.53	-3.26	-4.50	-6.51	-9.18	-8.80	-5.62	-3.82	-2.37	-1.35	-0.56	-0.52
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	4.18	4.21	3.82	3.12	2.18	1.26	0.65	0.45	0.84	1.84	2.61	3.41	3.74	3.96	3.78	3.32	2.47	1.53	0.63	0.04	0.29	1.41	2.63
θ (15°)	4.28	4.34	3.24	1.98	1.16	0.64	1.06	1.91	2.81	3.95	4.45	[4.50]	3.66	2.89	2.46	2.49	2.40	2.21	1.54	0.74	-0.28	-1.27	-0.64	1.58	4.28
θ (30°)	3.43	3.49	2.55	1.63	-0.02	-0.18	0.38	1.40	2.19	3.64	3.76	4.08	3.30	2.23	2.44	3.18	2.99	2.36	1.73	1.40	1.04	0.58	-0.22	0.25	3.43
θ (45°)	2.24	2.12	1.10	-1.20	-2.60	-0.91	0.11	0.62	1.02	0.20	2.10	2.55	2.48	1.35	2.79	1.92	1.89	1.38	0.78	0.96	0.78	-1.23	0.57	-0.35	2.24
θ (60°)	-0.48	0.87	-0.94	-2.66	-1.35	0.46	1.51	0.53	0.77	1.35	-0.70	0.26	-0.08	0.10	1.44	0.19	2.46	1.73	2.57	2.67	0.66	-1.29	-2.50	-0.95	-0.48
θ (75°)	-1.57	0.27	-1.03	-1.17	-2.16	-3.66	-1.47	0.35	-0.91	0.36	-2.35	-1.63	-2.06	-1.16	-1.34	-0.15	-0.49	0.51	0.55	0.25	-2.97	0.61	-1.70	-2.20	-1.57
θ (90°)	-1.02	-2.41	-1.15	-3.12	-0.90	1.51	2.28	-0.94	-4.21	-1.03	-0.23	-2.38	-1.98	-2.59	-2.42	-2.14	-2.01	-2.22	1.82	2.75	1.64	1.24	-1.16	-1.13	-1.02
θ (105°)	-0.79	-0.68	-1.34	-3.85	-1.23	2.02	0.14	-8.90	-4.35	-5.84	-3.24	-2.26	-1.60	-1.05	-2.14	-4.79	0.94	-0.40	2.38	2.65	0.39	-0.07	-0.13	-1.69	-0.79
θ (120°)	-2.17	-1.77	-2.26	-3.17	-2.98	-4.99	-4.72	-2.66	-1.27	-0.30	-1.77	-2.54	-1.05	-2.59	-2.96	-4.87	-4.18	0.84	1.86	2.55	0.62	-1.53	-0.31	-2.46	-2.17
θ (135°)	-2.24	-3.45	-3.74	-2.02	-1.18	-1.55	-1.71	-0.55	0.52	1.37	-0.54	-2.79	-2.87	-0.93	0.35	2.26	1.74	-0.50	-0.72	-0.99	-2.29	-2.84	-1.58	-1.24	-2.24
θ (150°)	-1.85	-4.14	-3.74	-0.88	0.64	-0.10	-1.93	-3.83	-3.42	-2.92	0.03	0.09	-5.12	-1.44	1.28	0.92	1.27	0.41	-2.35	-2.22	0.19	0.97	2.05	1.12	-1.85
θ (165°)	-3.72	-2.68	-1.62	-1.83	-2.07	-3.05	-6.04	-8.91	-10.31	-7.20	-6.65	-6.57	-5.81	-4.25	-2.75	-1.82	-2.14	-3.35	-5.45	-6.06	-3.80	-1.84	-1.11	-1.48	-3.72
θ (180°)	-9.81	-6.67	-4.97	-3.72	-3.07	-1.99	-1.96	-1.82	-2.41	-3.69	-5.54	-6.83	-8.00	-5.36	-3.84	-2.83	-2.37	-2.89	-3.26	-3.81	-4.64	-5.21	-6.50	-9.00	-9.81

1SS																									
Freq. (MHz)	5500																								
Polarity	Theta																								
dB	ϕ																								
	ϕ (0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-8.29	-5.80	-0.62	3.00	4.87	6.10	6.44	6.26	5.48	4.04	1.70	-1.78	-6.65	-5.74	-0.60	2.59	4.80	5.99	[6.54]	6.54	6.01	4.40	2.35	-1.74	-8.29
θ (15°)	-1.27	-0.34	1.16	2.39	3.74	4.03	4.03	3.79	3.02	1.37	-0.95	-2.73	-3.44	-2.69	-0.44	2.04	3.44	4.34	4.30	4.05	2.90	1.39	-0.31	0.19	-1.27
θ (30°)	1.91	1.05	0.91	1.09	1.41	1.31	1.19	1.11	0.86	0.33	-0.54	0.10	0.19	-1.16	0.13	0.98	2.68	3.78	3.71	3.40	3.02	1.17	-0.01	0.72	1.91
θ (45°)	-1.64	-3.33	-2.87	-0.97	-1.81	-0.93	-0.38	-4.91	-3.25	-1.37	-3.05	-2.88	-0.42	-0.40	-0.26	2.01	1.50	1.42	2.42	1.67	0.66	0.18	-2.00	-2.96	-1.64
θ (60°)	0.43	-1.24	-2.21	-2.23	1.50	4.41	5.57	4.28	0.77	0.22	-0.82	-0.68	-0.87	-2.21	-0.66	1.59	0.70	4.73	6.53	6.28	4.12	0.12	-1.63	-4.34	0.43
θ (75°)	0.77	-5.03	-1.66	-0.98	3.43	5.25	4.38	1.64	-0.08	0.22	1.46	-0.89	-2.21	-4.56	-0.53	0.36	2.25	2.10	4.40	4.64	3.51	-0.91	-3.26	-5.35	0.77
θ (90°)	-0.78	-2.32	0.62	0.04	2.27	3.13	3.10	-1.34	-1.58	3.04	2.11	-0.43	-0.32	-3.57	-1.25	0.81	-3.58	-2.50	0.07	2.18	1.15	1.60	-2.47	-4.49	-0.78
θ (105°)	1.04	1.97	1.11	-0.41	0.46	5.79	5.58	0.56	-1.01	3.97	4.18	3.68	1.32	1.64	2.69	1.34	-2.41	0.34	4.28	4.68	0.61	-0.32	0.90	-1.08	1.04
θ (120°)	-1.28	0.03	-0.30	0.31	2.16	1.91	0.77	3.18	1.76	2.93	3.09	1.27	-0.26	-0.85	0.47	2.35	-1.02	0.03	0.20	-0.38	2.23	3.37	-0.47	1.53	-1.28
θ (135°)	2.25	-0.39	-0.89	0.73	-0.57	-2.32	-2.60	1.13	3.29	2.98	-1.27	-3.53	-3.59	-1.39	-1.03	1.15	1.01	-0.09	-1.35	0.31	2.38	3.24	2.35	-1.53	2.25
θ (150°)	1.92	1.61	-1.49	-1.75	-1.32	-3.11	-2.97	-2.74	-2.02	-0.26	-0.68	-0.59	1.34	-0.52	-1.84	-3.03	-1.46	-2.75	-2.76	-2.11	-4.77	-5.63	-4.81	-6.04	1.92
θ (165°)	-2.06	-3.16	-4.57	-5.40	-5.67	-3.78	-3.10	-3.75	-4.60	-3.15	-0.09	1.23	1.17	-0.43	-2.01	-4.21	-5.60	-4.53	-4.88	-4.53	-4.75	-4.50	-4.21	-3.48	-2.06
θ (180°)	-2.75	-2.77	-2.63	-2.45	-2.89	-2.62	-2.30	-3.08	-2.74	-2.76	-2.07	-2.49	-2.56	-2.95	-2.89	-3.24	-3.64	-3.39	-3.08	-3.67	-3.58	-2.15	-1.82	-1.81	-2.75
Polarity	Phi																								
dB	ϕ																								
	ϕ (0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	6.11	5.86	5.05	3.45	0.40	-4.05	-9.35	-4.91	0.29	3.21	5.06	6.21	[6.57]	6.50	5.63	4.23	1.84	-2.26	-6.99	-6.56	-0.58	2.75	4.94	5.92	6.11
θ (15°)	5.89	3.89	1.65	-0.39	-3.98	-10.55	-12.39	-6.86	-2.02	0.15	3.01	5.45	5.84	4.18	2.68	1.19	-1.96	-7.86	-8.88	-3.72	-1.54	-0.08	1.84	4.82	5.89
θ (30°)	4.43	0.67	-0.51	-3.65	-5.51	-6.61	-7.34	-8.10	-9.38	-5.21	-2.09	-0.32	4.03	1.28	0.52	-1.67	-5.47	-12.83	-9.17	-2.94	0.20	2.20	1.20	1.54	4.43
θ (45°)	0.85	-5.51	-2.98	-4.08	-7.64	-6.50	-5.59	-5.31	-2.89	-3.65	-2.73	-1.56	2.62	-0.81	0.00	0.51	-4.38	-6.70	-6.19	-5.84	-3.40	0.98	0.80	-2.11	0.85
θ (60°)	-2.25	-2.28	1.16	0.46	3.23	1.18	-5.61	-0.51	2.38	0.40	1.35	-0.58	2.20	1.47	1.67	1.93	2.21	1.25	-4.65	-5.39	1.00	-1.44	0.92	-2.18	-2.25
θ (75°)	2.33	1.96	4.42	3.47	4.32	0.23	-3.08	3.86	3.47	3.21	2.65	2.59	4.03	3.85	3.90	3.41	3.53	1.38	-5.27	-1.89	2.29	1.21	2.34	1.69	2.33
θ (90°)	3.00	1.42	3.12	1.24	2.33	2.50	-9.23	3.22	1.15	3.87	4.15	4.54	4.42	4.13	3.48	2.93	3.40	3.93	0.20	2.39	3.29	4.41	3.10	1.28	3.00
θ (105°)	-0.51	0.10	2.48	1.69	0.61	-0.17	-4.67	1.95	-0.65	0.13	3.65	1.35	4.48	2.12	3.89	2.47	2.08	2.50	-2.90	1.42	2.33	3.96	2.09	-0.81	-0.51
θ (120°)	-1.12	-2.19	-0.71	2.18	2.07	-2.12	-4.24	2.40	4.04	2.45	2.30	0.65	4.34	2.83	3.57	3.44	4.21	4.13	-0.99	-4.11	3.46	4.72	0.98	-1.51	-1.12
θ (135°)	-0.10	-2.27	-1.47	2.33	2.01	-5.03	-3.12	2.11	3.74	3.23	1.41	1.13	1.17	0.70	2.22	4.49	3.53	2.74	-4.76	-5.36	2.27	3.01	-0.08	-0.97	-0.10
θ (150°)	-1.99	-2.46	-4.40	-1.96	-2.65	-4.86	-11.42	-4.40	-1.00	0.92	1.45	-4.58	-0.71	0.09	-1.29	0.80	2.54	0.85	-3.09	-6.92	-7.06	-4.09	-1.27	-2.12	-1.99
θ (165°)	-4.33	-3.86	-3.45	-5.58	-6.37	-7.49	-7.19	-5.69	-3.34	-3.44	-3.38	-3.52	-2.06	-1.38	-0.77	-1.70	-2.44	-4.75	-6.11	-9.06	-9.13	-6.64	-4.33	-3.97	-4.33
θ (180°)	-1.33	-1.91	-2.81	-3.00	-3.27	-3.80	-3.79	-3.63	-3.06	-3.03	-3.44	-2.99	-1.96	-1.91	-2.04	-3.18	-4.00	-5.60	-5.63	-5.19	-4.78	-3.20	-2.57	-2.26	-1.33

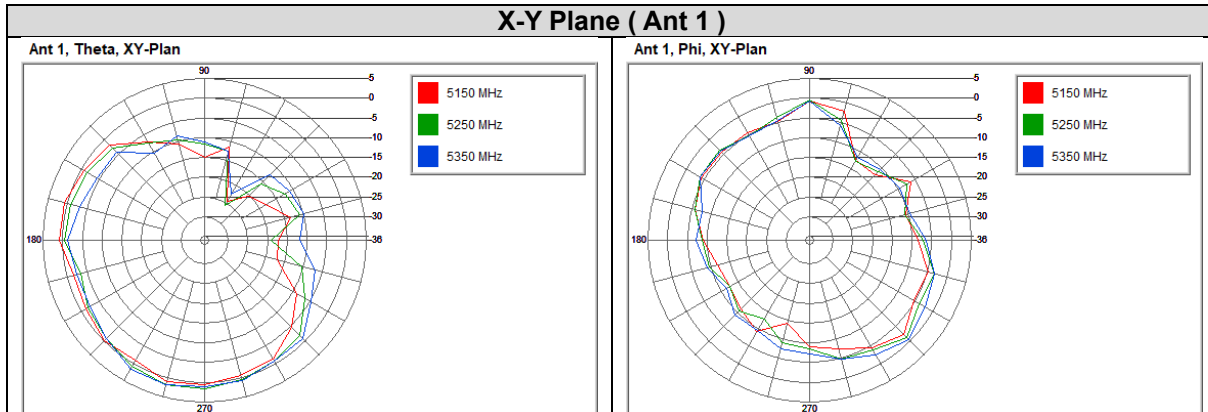
1SS																									
Freq. (MHz)	5650																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-5.58	-6.48	-3.10	0.13	2.50	4.02	4.79	4.90	4.53	3.21	1.40	-1.71	-7.14	-7.88	-3.41	0.83	3.00	4.44	5.15	5.39	5.01	4.04	2.37	-0.27
θ (15°)	-1.00	-1.36	-0.93	0.04	0.98	1.76	1.92	1.43	0.62	-0.31	-1.06	-2.31	-4.16	-3.77	-2.66	-0.32	1.63	2.72	2.91	2.51	0.84	-1.32	-1.69	-0.20	-1.00
θ (30°)	1.98	0.52	-0.06	-1.25	-0.14	0.08	-0.52	0.16	0.96	0.26	0.21	-2.60	-2.52	-4.84	-1.64	-0.21	0.27	2.43	3.15	3.17	2.39	0.12	0.11	-0.24	1.98
θ (45°)	0.16	-3.01	-3.43	-2.18	-2.54	-1.31	-1.03	-2.83	-1.30	-0.98	-2.96	-3.58	-2.51	-4.17	-2.21	0.76	1.05	2.21	2.46	1.89	-2.30	-2.66	-4.09	-2.42	0.16
θ (60°)	0.02	-0.74	-1.24	-1.52	2.51	5.25	5.68	3.86	0.43	1.21	-0.64	-0.61	-2.54	-2.18	0.71	0.94	3.16	4.25	6.30	[6.43]	4.93	0.21	-3.38	-2.78	0.02
θ (75°)	-1.09	-3.20	-2.21	-0.27	3.08	4.72	3.20	1.96	0.26	0.45	1.15	-0.70	-3.29	1.95	0.63	2.27	1.89	2.06	4.16	4.38	2.16	-2.22	-3.82	-5.28	-1.09
θ (90°)	0.24	-1.11	0.95	1.55	2.04	0.99	0.24	-5.93	-2.85	3.52	1.66	-1.83	-0.69	-1.83	1.32	2.17	0.24	-1.00	-1.08	-0.17	1.20	2.28	-2.07	-5.27	0.24
θ (105°)	-0.48	2.48	2.34	1.22	-0.23	4.73	4.46	0.51	-0.45	4.26	5.03	4.19	2.31	4.51	2.02	2.27	-1.67	-0.80	2.43	4.04	1.20	0.98	0.08	-1.92	-0.48
θ (120°)	-3.15	0.31	-0.10	0.98	0.91	1.04	0.83	2.94	1.09	2.56	2.64	1.32	0.37	2.96	2.43	1.09	0.40	1.30	0.35	0.32	2.04	4.20	0.85	0.32	-3.15
θ (135°)	0.11	1.55	2.17	2.43	1.20	0.54	-0.07	2.78	3.77	3.76	-0.69	-3.40	-4.04	-0.63	0.53	0.26	-0.42	-0.43	-0.14	0.71	1.52	2.79	0.11	-1.71	0.11
θ (150°)	-1.16	-0.30	-0.21	0.00	-1.96	-3.07	-2.93	-2.53	-1.30	0.38	0.09	-1.06	-0.64	1.38	1.48	0.55	-0.79	-3.90	-3.42	-2.42	-3.86	-3.48	-2.89	-3.31	-1.16
θ (165°)	-3.97	-3.37	-5.07	-5.97	-5.15	-3.38	-3.70	-5.91	-8.39	-2.83	1.08	1.51	0.84	0.01	-0.91	-3.89	-6.27	-4.98	-4.96	-4.53	-4.78	-5.39	-5.45	-5.21	-3.97
θ (180°)	-3.28	-3.73	-4.27	-4.28	-3.96	-3.69	-3.31	-3.12	-2.81	-2.93	-2.35	-1.99	-2.39	-3.35	-4.71	-5.55	-5.77	-4.67	-4.29	-4.66	-4.07	-2.10	-1.46	-1.41	-3.28
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	4.77	4.75	4.07	2.73	0.66	-3.11	-8.13	-7.82	-2.96	0.76	2.72	4.22	4.99	[5.18]	4.62	3.21	1.03	-2.12	-6.61	-7.29	-2.67	0.79	3.05	4.42
θ (15°)	4.49	3.19	0.54	-2.21	-5.64	-8.80	-10.59	-8.04	-5.65	-2.65	0.52	2.95	4.08	2.91	-0.21	-3.03	-5.71	-8.71	-8.30	-4.64	-3.21	-2.60	0.60	3.74	4.49
θ (30°)	2.37	-0.34	-3.47	-5.01	-3.81	-5.37	-5.57	-5.71	-7.70	-7.86	-6.43	-1.94	1.02	-3.00	-5.25	-5.67	-3.96	-8.54	-9.12	-5.62	-1.97	-0.39	-2.26	-2.09	2.37
θ (45°)	0.91	-3.02	-3.63	-3.19	-7.16	-9.96	-5.96	-3.90	-1.49	-2.66	-2.11	-1.11	0.20	-2.25	-2.01	-1.51	-2.30	-4.65	-4.87	-3.80	-2.76	-0.51	-1.15	-3.03	0.91
θ (60°)	-1.34	-1.97	-1.21	-0.08	1.90	-1.34	-5.09	0.94	1.59	0.18	0.57	0.71	2.17	1.20	0.93	1.80	3.53	0.43	-5.19	-2.65	1.87	-0.56	0.94	-1.34	-1.34
θ (75°)	1.88	1.31	3.92	4.75	2.93	-1.91	-2.89	3.82	4.02	2.71	3.15	2.55	3.59	3.31	4.56	4.00	2.97	1.33	-6.32	0.03	1.75	0.92	1.51	1.72	1.88
θ (90°)	3.21	2.29	1.81	2.75	0.73	2.58	-4.68	5.00	1.92	4.30	5.10	4.88	5.07	2.97	3.14	2.98	3.30	4.18	-0.60	2.31	4.66	4.73	2.63	2.36	3.21
θ (105°)	-1.17	-1.52	1.54	1.09	-0.20	-4.37	-1.56	3.91	1.64	1.83	3.06	2.66	3.92	3.08	4.11	2.21	1.77	3.68	-1.04	1.80	1.33	2.35	0.36	1.01	-1.17
θ (120°)	-3.16	-3.44	-5.18	1.13	2.95	-1.44	-3.35	1.84	3.50	0.62	1.76	0.85	3.38	3.09	3.33	3.89	3.96	3.48	-1.38	-4.98	3.12	4.04	-0.54	-3.43	-3.16
θ (135°)	0.12	-3.25	-4.21	2.68	1.06	-5.52	-3.97	2.02	2.32	2.92	-0.83	-0.59	-0.01	0.06	2.13	3.85	4.03	3.22	-5.24	-5.95	1.51	3.98	-2.25	-1.57	0.12
θ (150°)	-1.03	-0.81	-4.67	-1.25	-1.80	-4.69	-11.06	-4.39	-0.29	-0.11	1.57	-3.47	-1.21	0.17	0.06	0.93	1.74	0.77	-4.29	-9.46	-4.53	-3.48	-1.26	-4.39	-1.03
θ (165°)	-4.94	-3.93	-3.71	-4.78	-7.15	-10.29	-12.18	-7.95	-3.53	-2.18	-2.45	-2.35	-2.07	-2.28	-0.72	-0.92	-1.36	-4.28	-5.08	-6.65	-7.06	-5.62	-4.16	-3.88	-4.94
θ (180°)	-2.32	-2.73	-2.78	-3.04	-3.01	-2.76	-3.94	-3.65	-5.02	-4.64	-4.15	-4.09	-3.41	-2.15	-2.15	-3.47	-4.55	-5.22	-6.15	-5.41	-6.89	-4.82	-4.61	-3.90	-2.32

1SS																									
Freq. (MHz)	5850																								
Polarity	Theta																								
dB	ϕ																								
	ϕ (0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	-7.86	-6.35	-0.56	3.11	5.40	6.57	7.09	6.91	6.24	4.73	2.51	-1.34	-7.90	-5.45	-0.98	2.68	4.87	6.33	7.13	[7.21]	6.71	5.55	3.35	-0.47	-7.86
θ (15°)	-1.71	-1.28	0.78	2.45	3.79	4.71	5.21	5.35	4.93	3.70	1.55	-0.85	-2.92	-1.13	1.79	3.33	4.29	4.68	4.99	4.39	3.00	0.70	-0.30	0.16	-1.71
θ (30°)	1.28	1.79	1.57	2.09	2.84	2.68	3.09	3.25	3.54	3.30	4.10	1.45	-1.10	0.91	2.43	3.33	3.70	4.77	5.41	5.41	5.03	3.60	1.99	1.97	1.28
θ (45°)	-1.67	-1.13	-1.37	-0.82	1.53	1.78	1.51	1.99	2.47	0.83	-0.20	-1.03	-3.54	-0.43	2.39	3.29	4.05	4.60	4.95	5.00	2.54	-1.11	-3.81	-3.96	-1.67
θ (60°)	0.72	-0.81	-0.95	0.83	3.08	5.88	6.15	4.26	0.74	1.71	0.01	-1.06	-2.52	-0.98	1.81	2.10	2.79	2.54	4.61	4.99	3.80	1.05	-1.88	-1.20	0.72
θ (75°)	-2.32	-1.28	-3.87	-1.27	3.14	4.28	2.61	2.29	-0.67	0.06	1.35	-1.71	-1.42	2.74	2.28	0.00	-1.19	0.07	1.71	3.07	1.56	-1.99	-2.97	-2.55	-2.32
θ (90°)	-1.39	-2.33	-1.00	0.06	1.23	1.46	2.08	-2.59	-1.93	0.94	0.35	-1.61	-3.92	-0.09	2.83	2.88	0.30	-1.01	-0.18	0.77	0.13	1.81	0.63	-2.77	-1.39
θ (105°)	-1.85	-1.08	1.35	-0.25	-2.46	3.60	3.21	0.40	-0.81	3.46	3.37	-0.15	0.41	4.82	3.74	1.26	-4.73	0.97	0.73	1.71	-1.43	-0.27	0.33	-1.28	-1.85
θ (120°)	-5.37	-2.76	-3.06	-0.12	-1.00	-0.56	-0.38	1.00	-2.78	0.34	1.18	-2.19	-1.76	1.31	2.17	0.06	-1.95	-0.67	-0.63	-0.73	0.32	1.64	-0.24	-0.51	-5.37
θ (135°)	-1.01	0.83	1.62	2.40	0.11	-0.95	-1.63	0.60	2.88	3.44	1.34	-3.06	-1.46	0.06	-1.45	-1.00	-3.10	-2.96	-3.78	-2.96	-0.50	1.23	0.60	2.29	-1.01
θ (150°)	-3.32	-3.95	-3.95	-4.00	-4.05	-4.47	-3.20	-2.18	-0.96	0.36	-0.99	-0.93	-1.42	1.77	3.00	1.55	-1.84	-6.81	-8.78	-7.54	-6.46	-2.31	-0.10	-1.31	-3.32
θ (165°)	-5.46	-4.41	-6.65	-7.51	-8.54	-8.05	-7.81	-9.78	-10.28	-4.05	-0.39	1.32	1.71	1.40	0.65	-2.84	-5.10	-5.85	-5.33	-5.22	-5.36	-5.43	-8.78	-8.94	-5.46
θ (180°)	-3.02	-3.71	-4.27	-4.58	-4.43	-4.61	-3.89	-3.23	-2.63	-2.57	-2.73	-2.48	-2.99	-3.80	-4.08	-3.86	-4.12	-3.85	-3.15	-5.02	-4.48	-2.27	-1.45	-1.59	-3.02
Polarity	Phi																								
dB	ϕ																								
	ϕ (0°)	(15°)	(30°)	(45°)	(60°)	(75°)	(90°)	(105°)	(120°)	(135°)	(150°)	(165°)	(180°)	(195°)	(210°)	(225°)	(240°)	(255°)	(270°)	(285°)	(300°)	(315°)	(330°)	(345°)	(360°)
θ (0°)	[7.15]	7.05	6.30	4.80	2.16	-3.24	-9.16	-5.53	0.05	3.49	5.36	6.58	7.05	7.00	6.28	4.89	2.61	-1.31	-6.93	-5.49	-0.70	3.28	5.26	6.61	7.15
θ (15°)	6.59	6.30	4.91	2.89	0.13	-3.82	-12.19	-10.63	-2.50	1.86	4.16	5.37	5.47	4.45	1.99	-1.83	-5.61	-10.11	-8.09	-2.83	-0.25	0.91	2.72	5.42	6.59
θ (30°)	4.08	2.87	-0.24	-2.97	-4.16	-5.89	-6.21	-8.95	-6.67	-4.15	-1.15	0.91	2.67	0.95	-2.38	-1.07	-1.25	-5.37	-7.71	-3.11	-0.51	-0.20	0.12	1.18	4.08
θ (45°)	3.13	1.24	0.38	-0.16	-2.04	-8.42	-5.82	-2.28	-0.63	-0.87	0.13	3.63	4.43	2.10	2.26	0.24	-0.15	-5.74	-9.21	-3.74	-0.01	0.26	-0.78	0.61	3.13
θ (60°)	2.79	0.88	0.47	2.98	0.97	-3.17	-5.08	0.24	3.71	2.88	3.31	3.21	5.55	3.83	3.98	3.36	2.76	2.22	-5.97	-2.09	1.21	2.12	1.71	-0.82	2.79
θ (75°)	2.49	1.57	4.31	4.53	1.12	-2.04	-4.81	1.42	5.57	3.73	3.88	3.84	5.23	3.10	4.31	3.87	5.18	1.75	-6.74	-0.78	1.32	2.73	0.66	0.61	2.49
θ (90°)	3.24	3.47	2.07	4.15	2.57	2.81	-1.03	5.17	2.30	4.49	4.50	4.34	6.08	3.93	4.89	2.99	5.26	3.01	0.62	0.23	4.87	4.04	3.38	-0.75	3.24
θ (105°)	-0.92	-2.01	0.67	2.70	0.28	-1.75	-0.80	2.47	3.18	4.23	2.90	4.19	4.13	3.57	3.23	2.68	2.74	4.18	-1.43	0.15	1.57	2.83	-0.47	0.10	-0.92
θ (120°)	-6.95	-3.29	-4.67	1.17	1.83	-1.06	-5.10	1.46	2.79	0.64	-0.88	-0.22	1.69	1.68	1.64	2.44	2.68	2.61	-0.22	-4.60	1.39	2.51	-3.23	-5.43	-6.95
θ (135°)	-2.08	-2.98	-5.11	1.74	1.35	-6.42	-3.98	1.46	3.16	1.44	-2.62	-1.97	-1.72	-0.06	0.71	3.42	4.18	2.47	-5.23	-7.00	0.76	3.05	-1.66	-2.05	-2.08
θ (150°)	-2.20	-2.00	-2.91	-1.07	-2.27	-6.16	-8.15	-1.63	0.03	-0.40	-1.30	-3.95	-1.66	-1.18	-0.11	1.76	1.47	0.61	-3.78	-10.54	-5.42	-2.97	-1.53	-4.86	-2.20
θ (165°)	-6.40	-5.35	-4.02	-3.50	-6.55	-9.08	-10.12	-7.21	-3.24	-3.83	-3.18	-2.78	-2.86	-3.53	-2.98	-1.55	-0.64	-1.81	-4.61	-8.00	-8.93	-5.36	-4.14	-5.88	-6.40
θ (180°)	-2.38	-3.05	-3.40	-3.41	-3.41	-3.49	-4.89	-5.52	-5.43	-4.81	-6.02	-4.88	-3.38	-2.66	-2.33	-3.10	-5.02	-4.56	-6.41	-7.20	-7.33	-4.90	-3.68	-2.87	-2.38

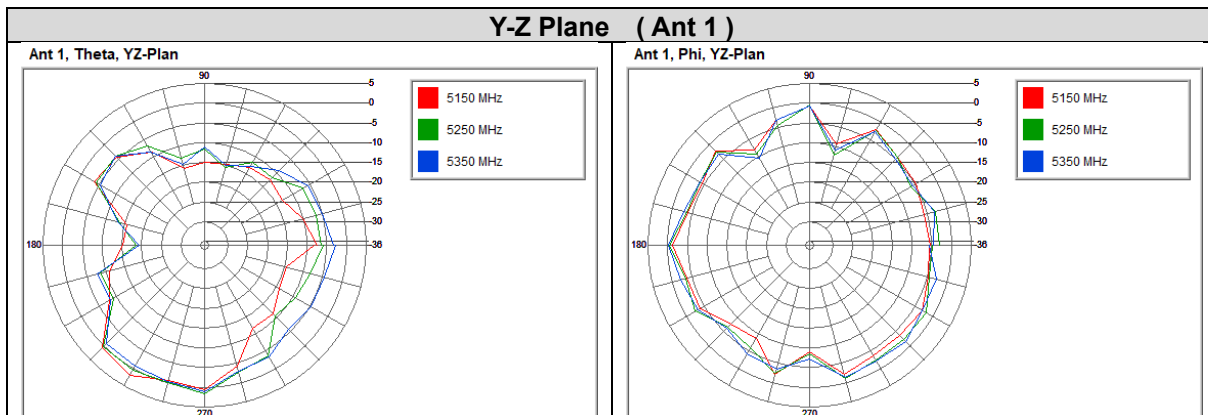
A.2 Antenna Pattern Test Plots



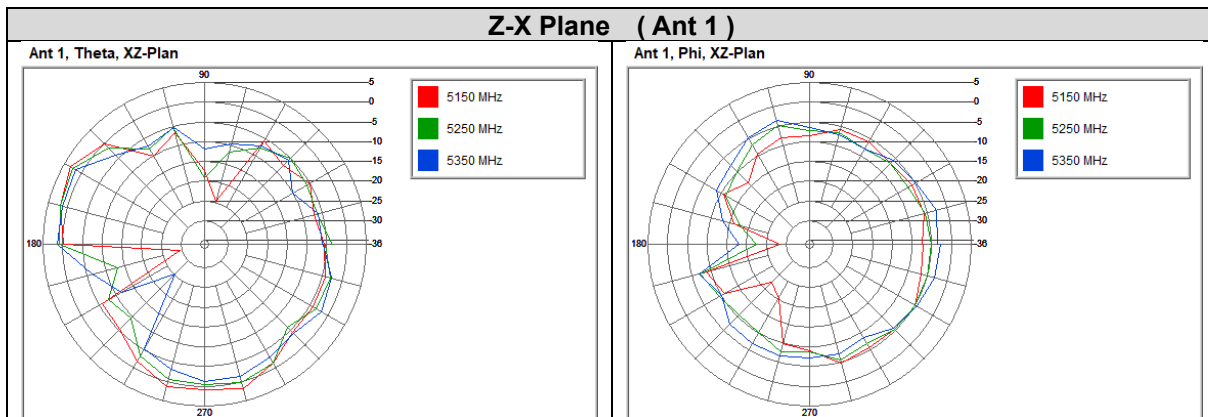
X-Y Plane (Ant 1)



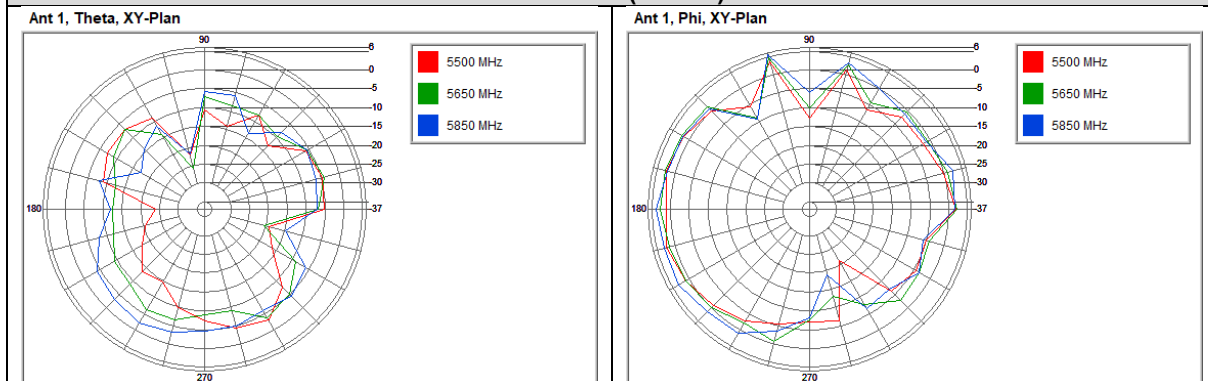
Y-Z Plane (Ant 1)



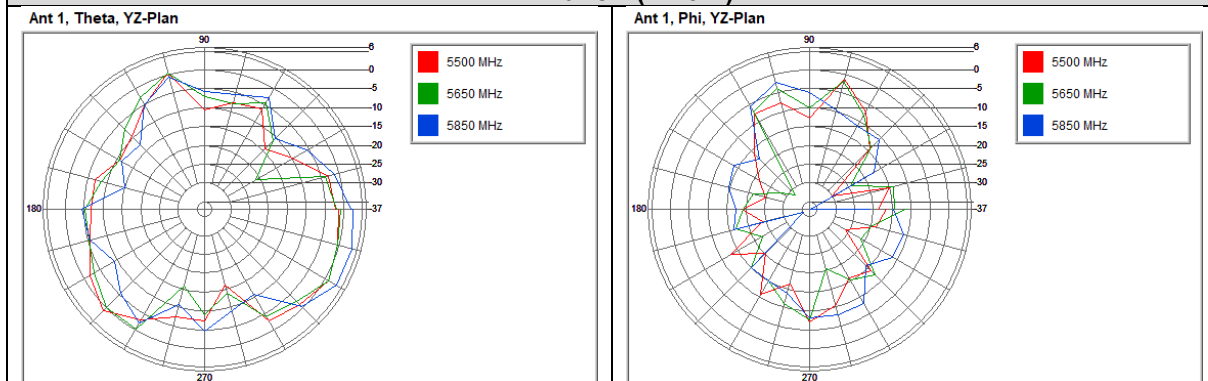
Z-X Plane (Ant 1)



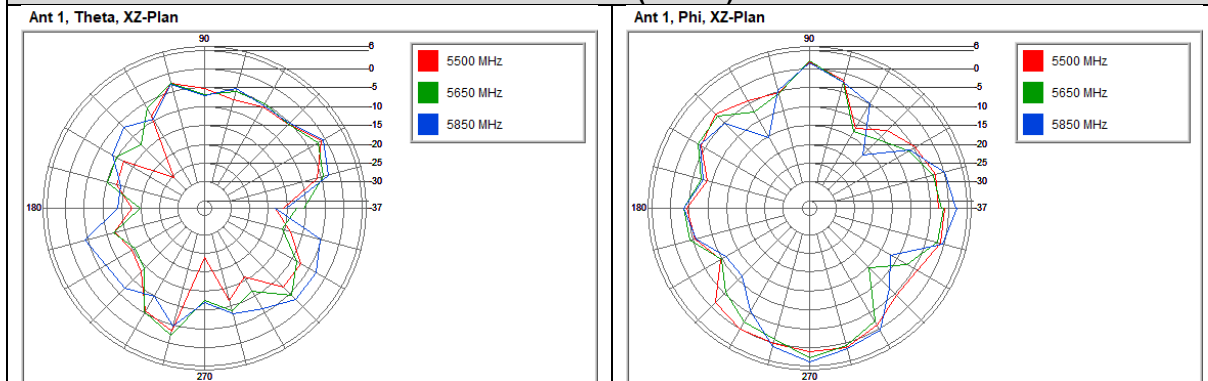
X-Y Plane (Ant 1)



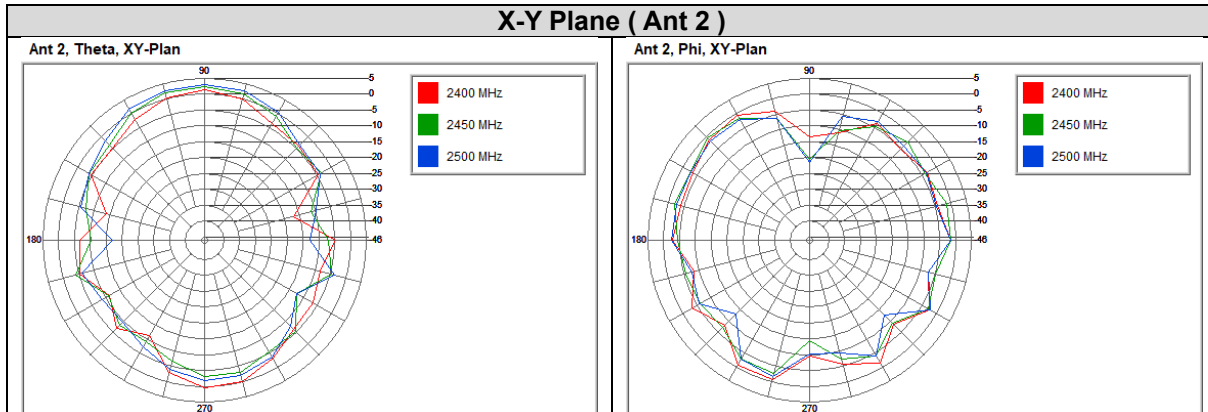
Y-Z Plane (Ant 1)



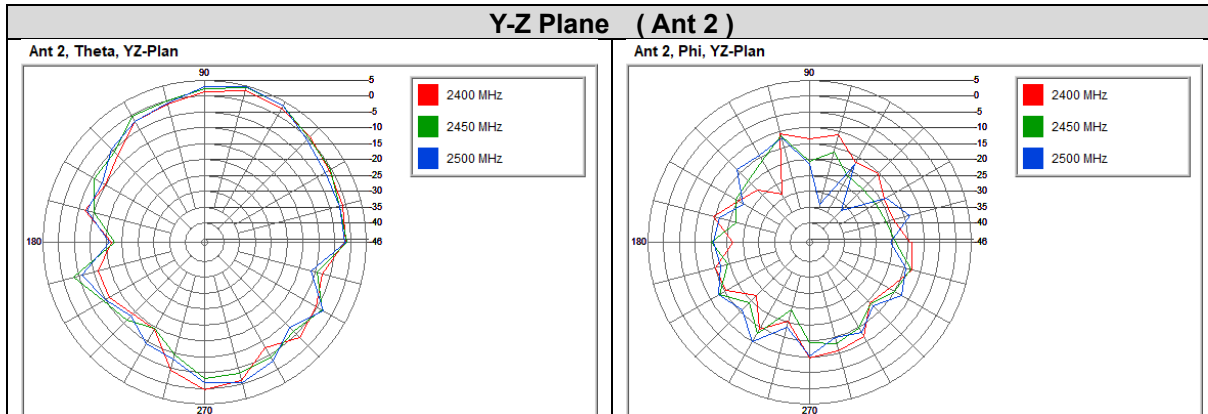
Z-X Plane (Ant 1)



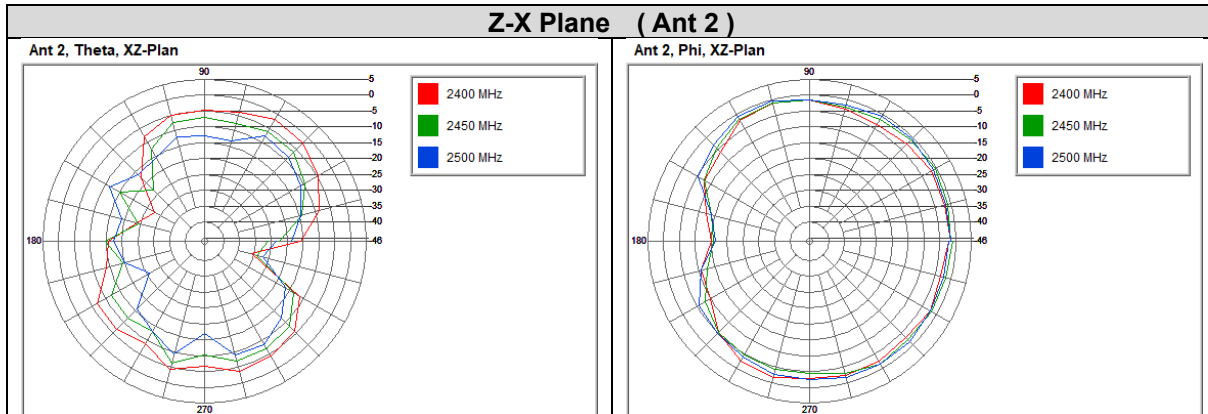
X-Y Plane (Ant 2)



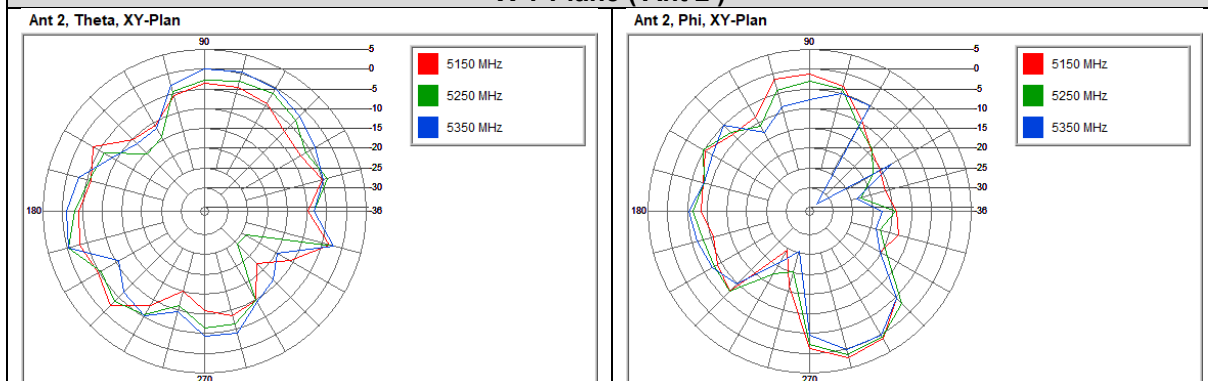
Y-Z Plane (Ant 2)



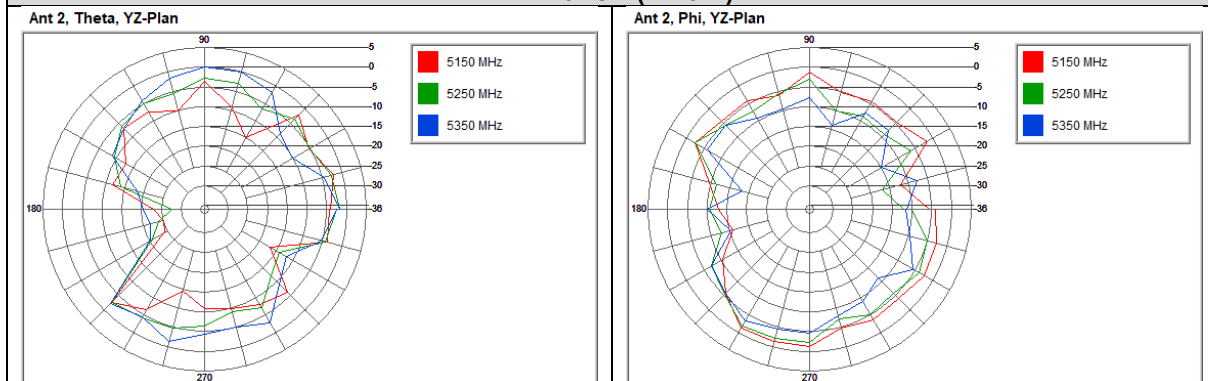
Z-X Plane (Ant 2)



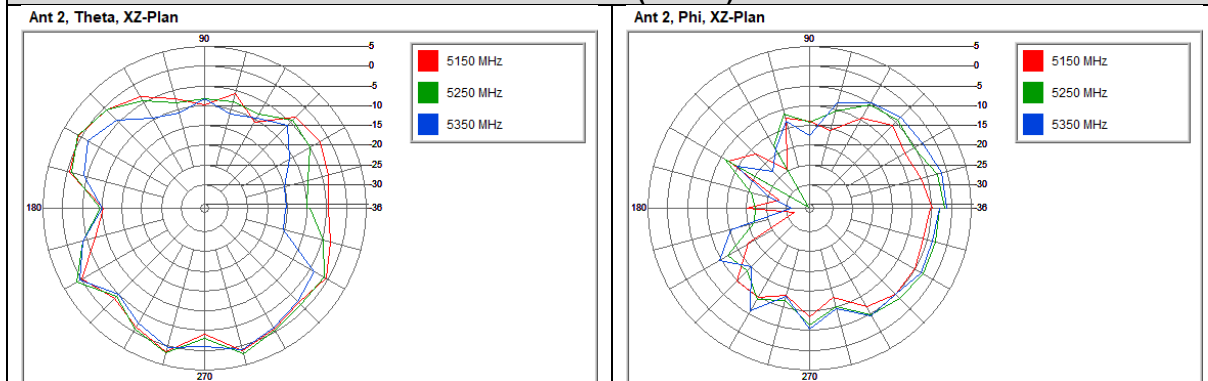
X-Y Plane (Ant 2)



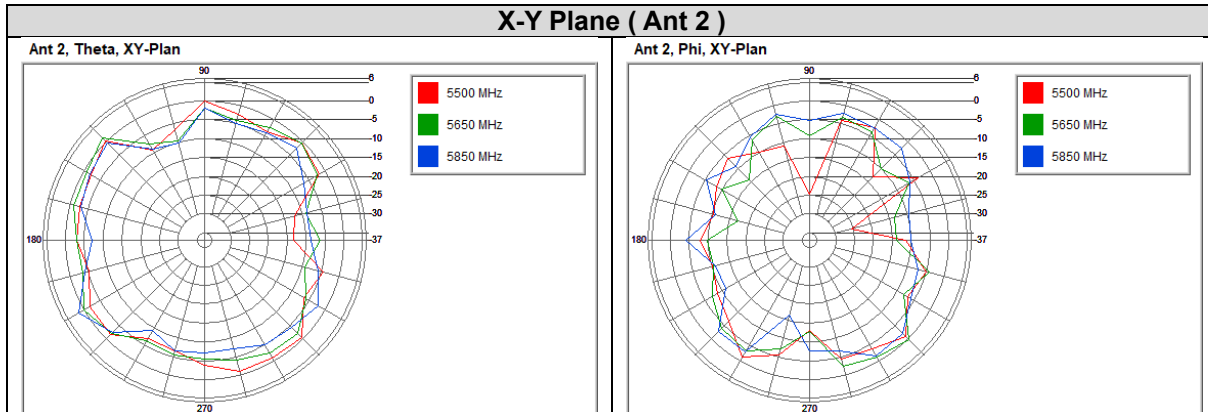
Y-Z Plane (Ant 2)



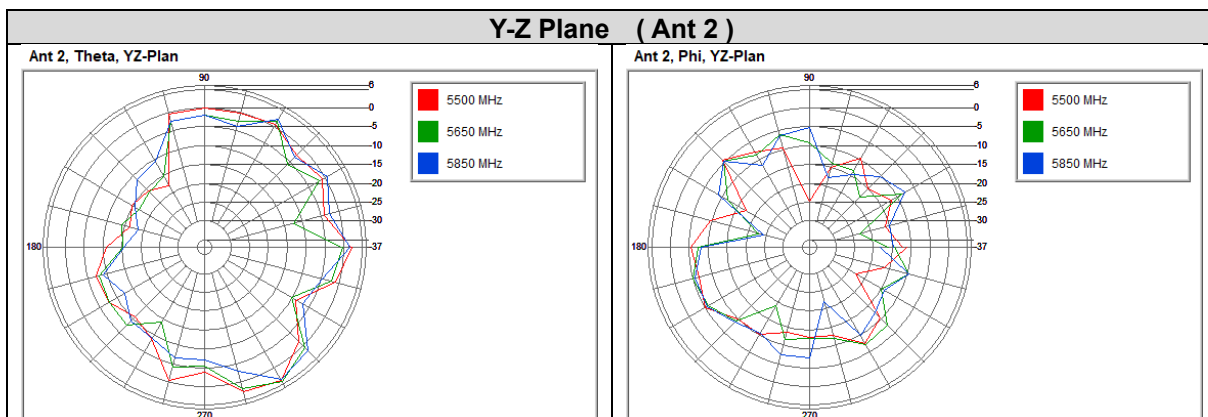
Z-X Plane (Ant 2)



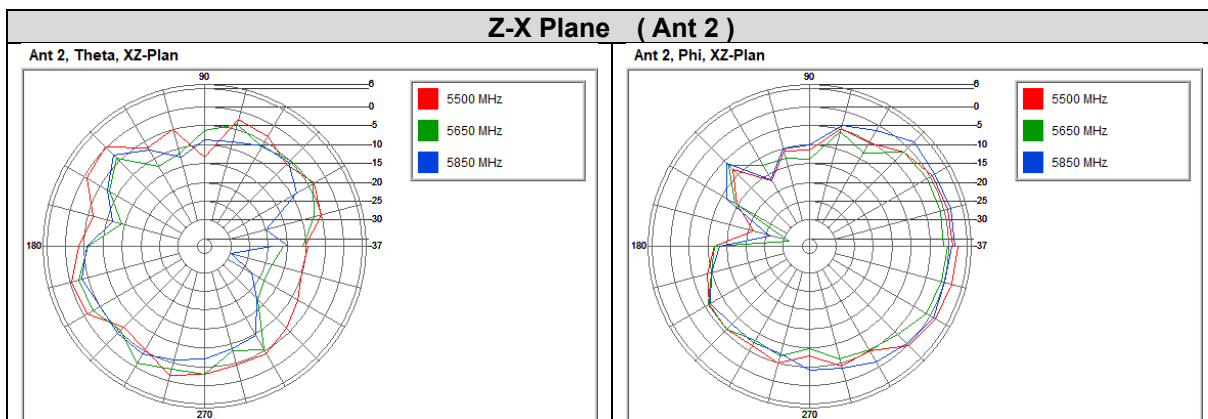
X-Y Plane (Ant 2)



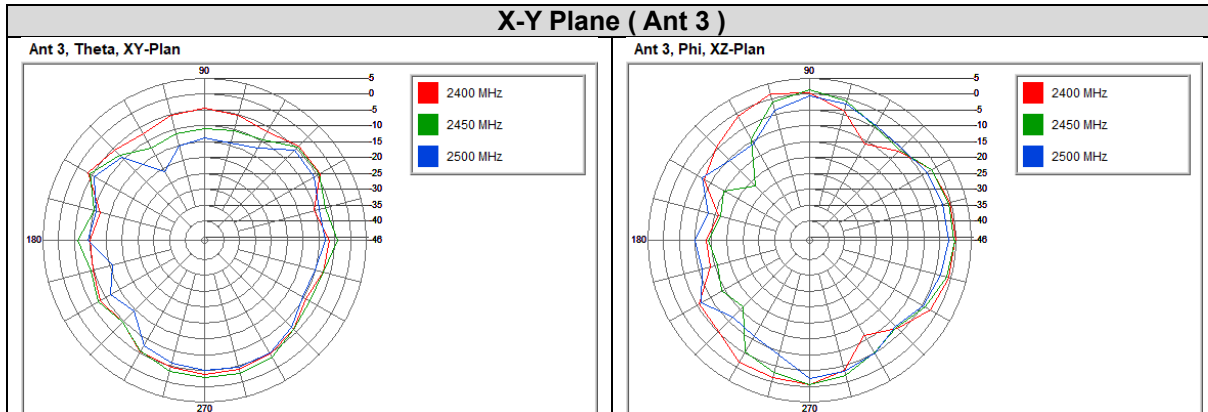
Y-Z Plane (Ant 2)



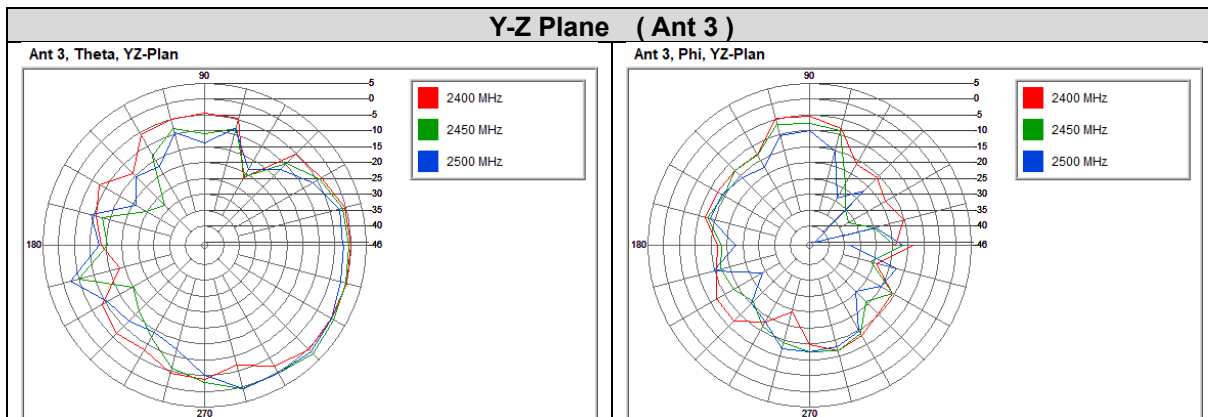
Z-X Plane (Ant 2)



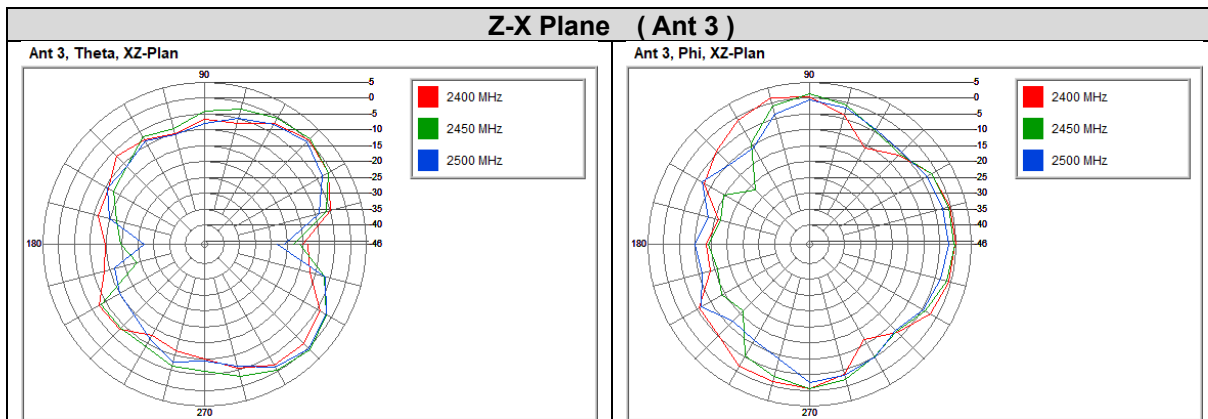
X-Y Plane (Ant 3)



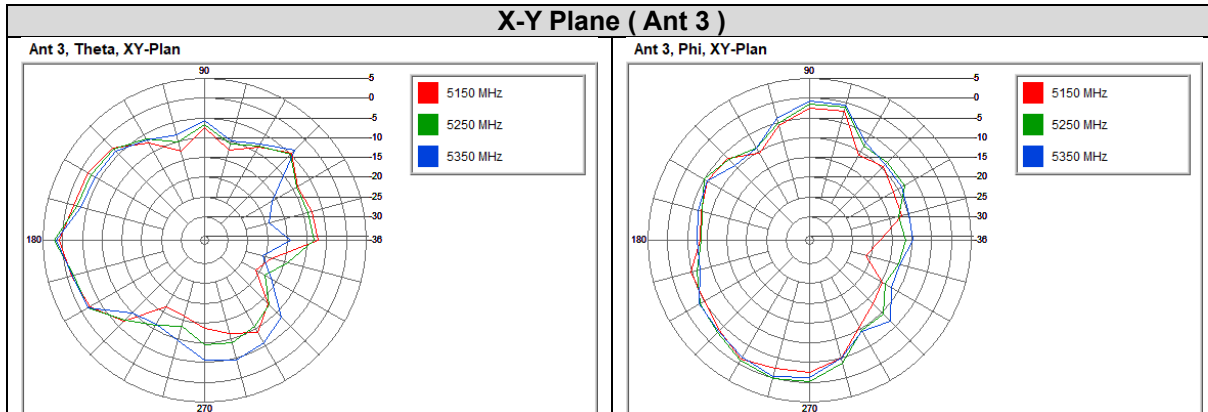
Y-Z Plane (Ant 3)



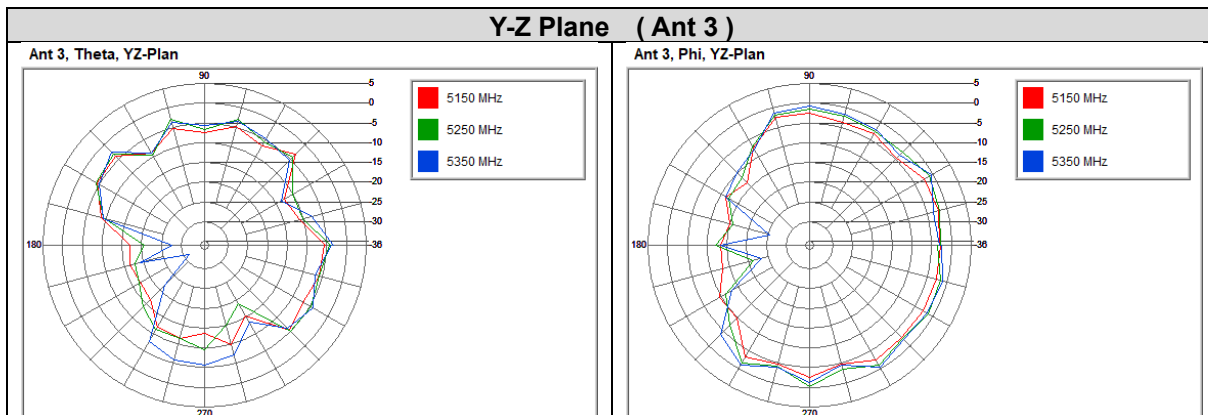
Z-X Plane (Ant 3)



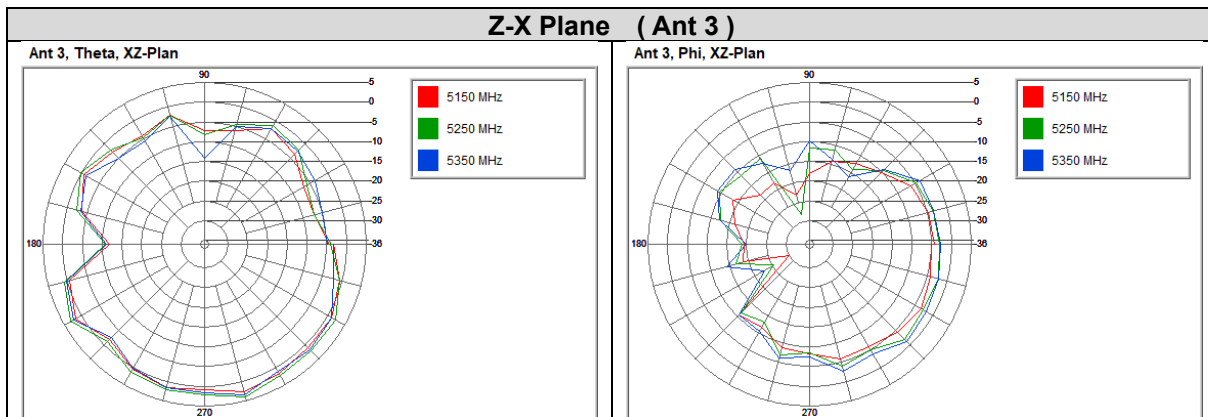
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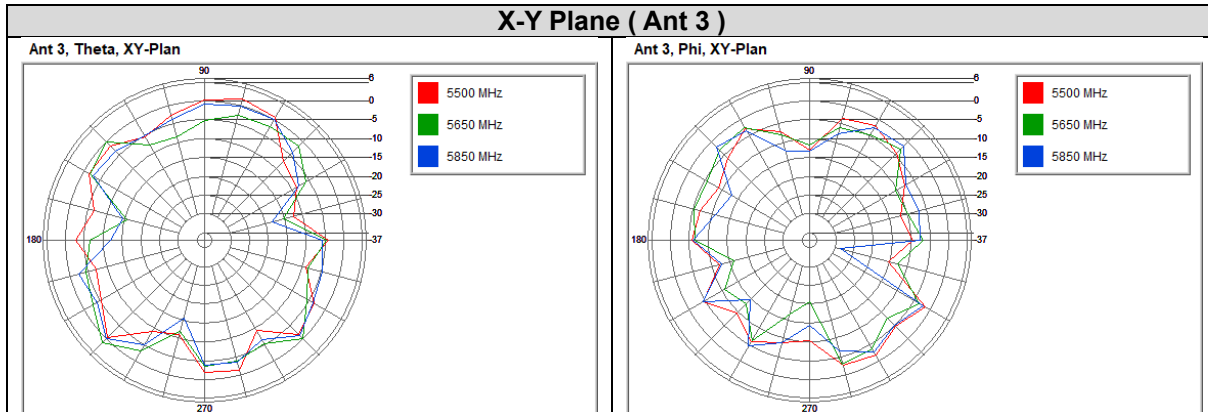
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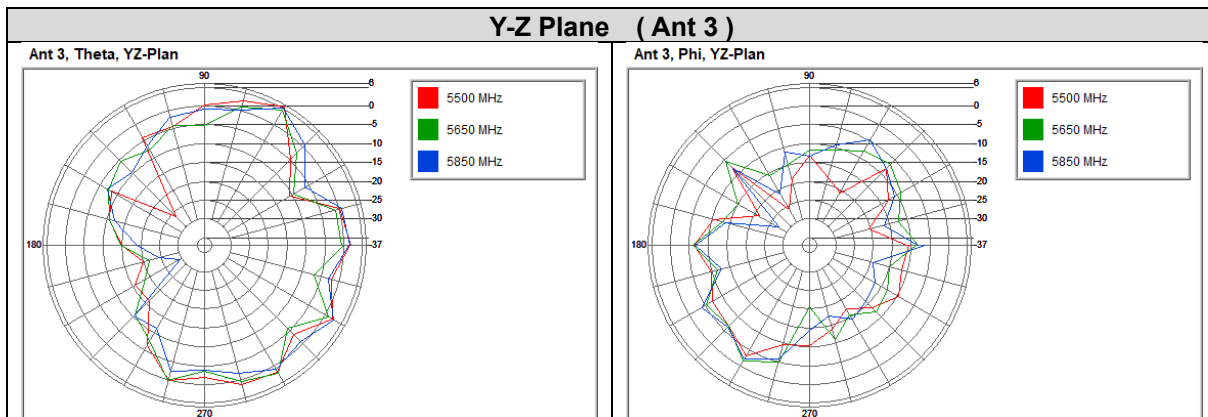
Z-X Plane (Ant 3)



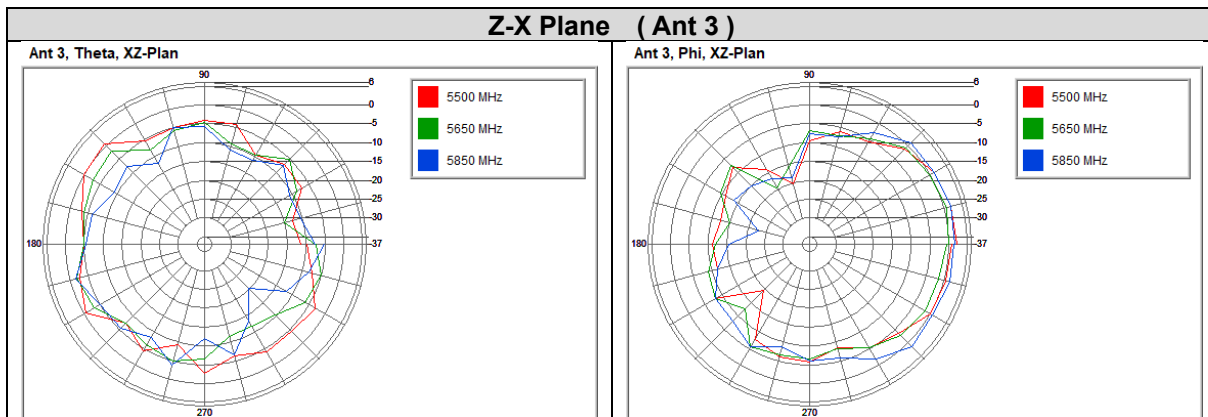
X-Y Plane (Ant 3)



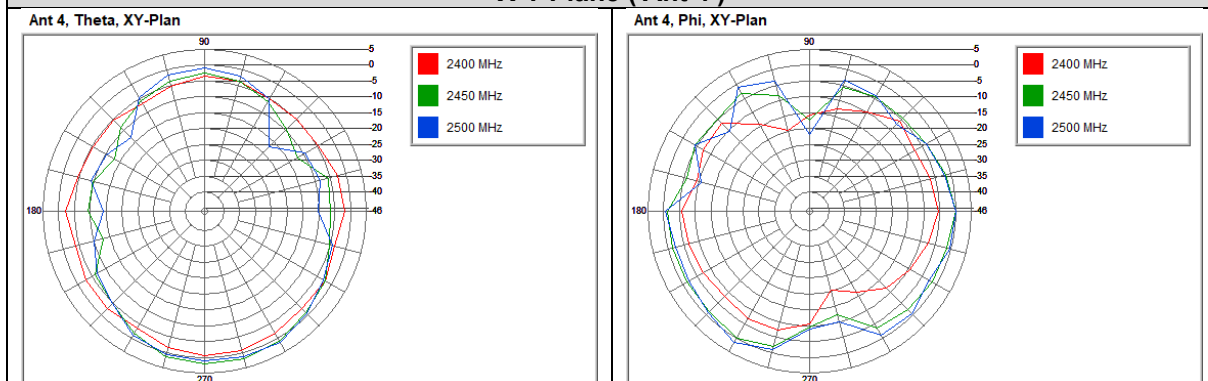
Y-Z Plane (Ant 3)



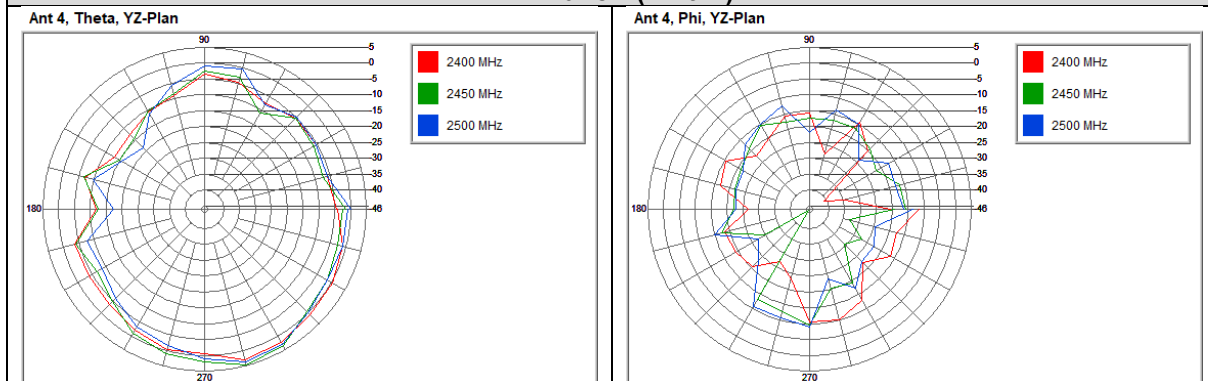
Z-X Plane (Ant 3)



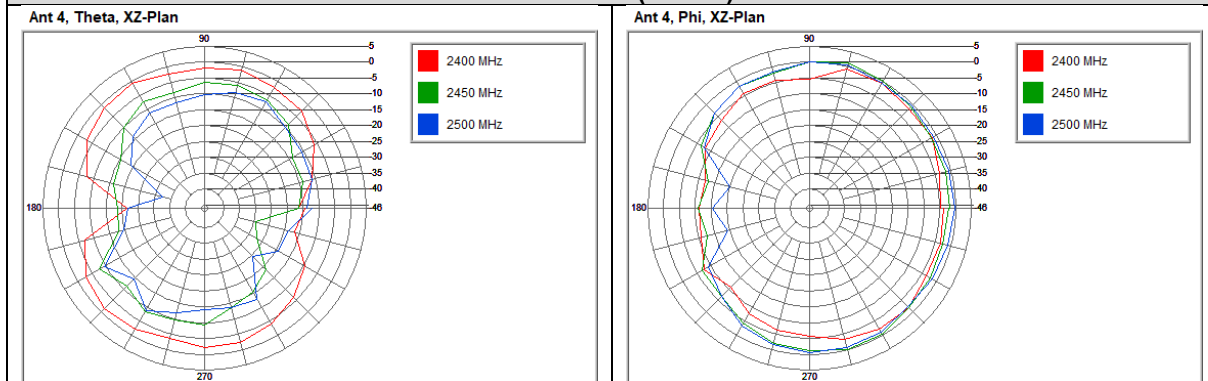
X-Y Plane (Ant 4)



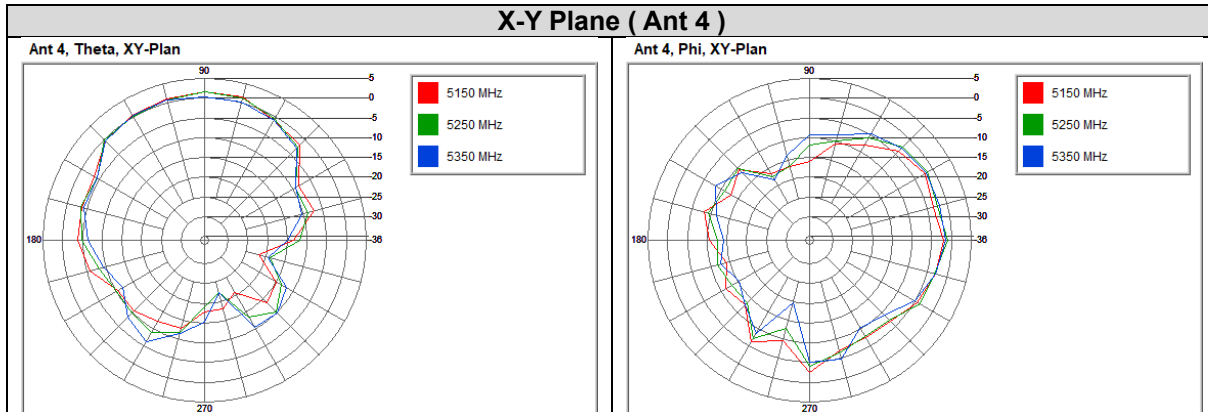
Y-Z Plane (Ant 4)



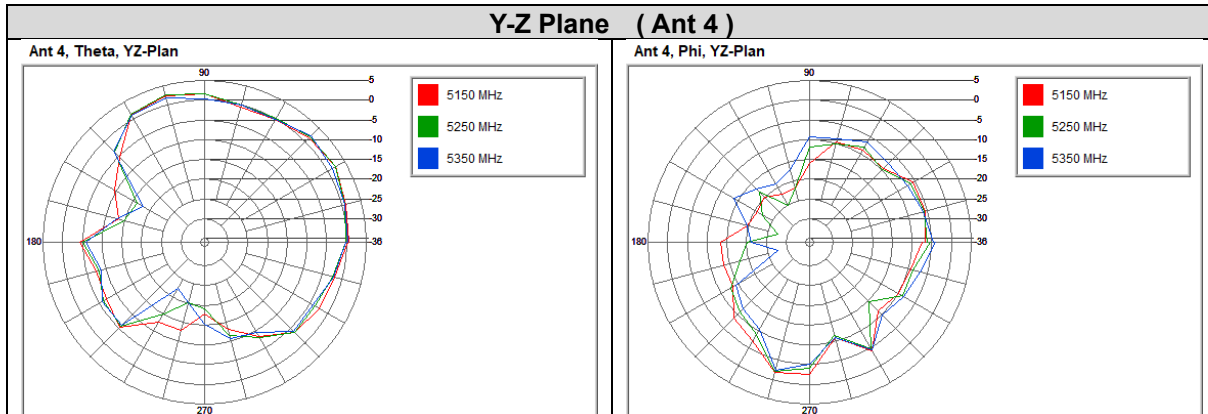
Z-X Plane (Ant 4)



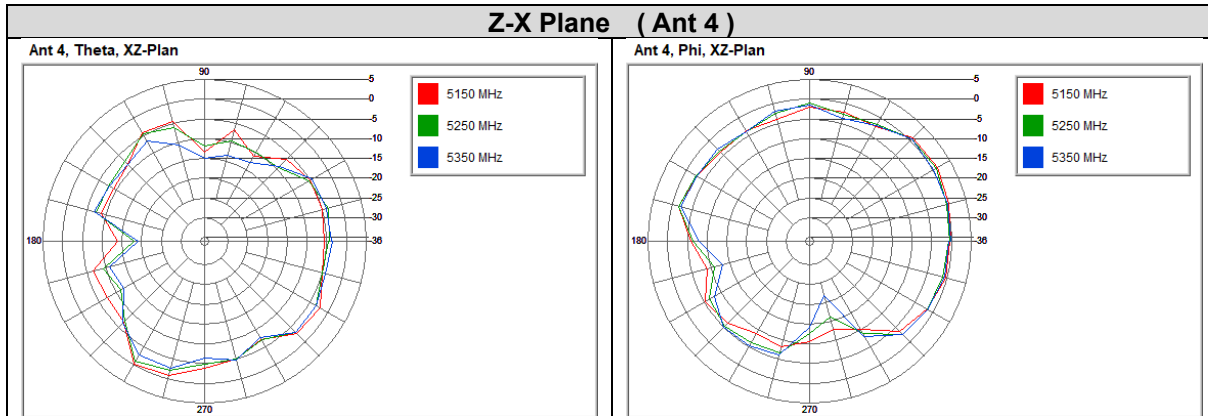
X-Y Plane (Ant 4)



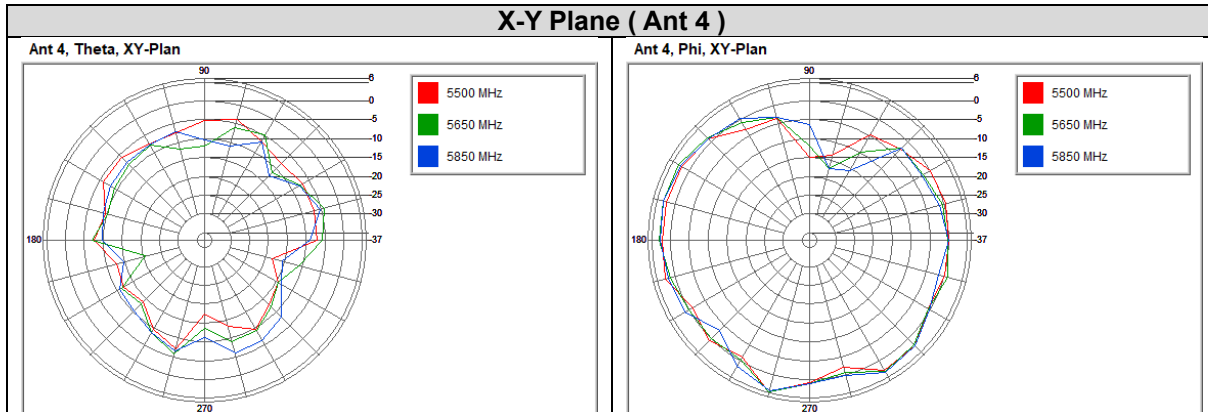
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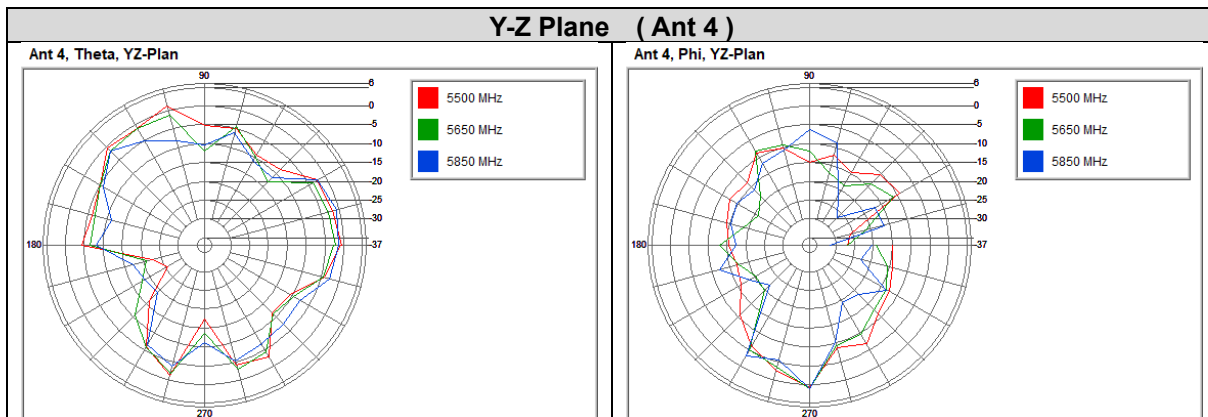
Z-X Plane (Ant 4)



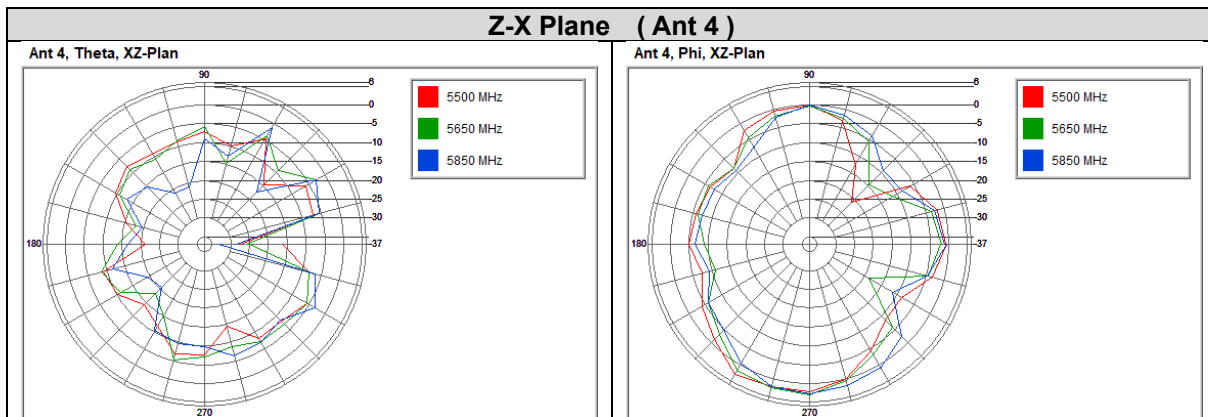
X-Y Plane (Ant 4)



Y-Z Plane (Ant 4)



Z-X Plane (Ant 4)



Appendix B –Test Setup and EUT antenna port photo

B.1 Antenna Location (Configuration and RF Chains)

Please to the documents “ORBCKS-WTW-P23040515B_Space Exploration_UTR-232_Antenna measurement Report_Appendix B”

B.2 Test Setup Diagram for EUT

Please to the documents “ORBCKS-WTW-P23040515B_Space Exploration_UTR-232_Antenna measurement Report_Appendix B”

Appendix C - Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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